

FOURTH PRINTING (6-77)

Identical to First Printing (11-64) including all supplementary information as released thru Parts Bulletin TPSD 136 (8-73)

HD-16

crawler tractor

parts catalog

S/N 101 THRU 5900

Form 70644082 English
(Same as 0644082-0)

WARNING

STUDY THE OPERATION AND MAINTENANCE
INSTRUCTION MANUAL THROUGH BEFORE
STARTING, OPERATING, MAINTAINING,
FUELING OR SERVICING THIS MACHINE.

MODEL IDENTIFICATION

The models listed in this Parts List and their identifying symbols are indicated below. This symbol is stamped in front of the tractor serial number on each model.

MODEL SYMBOL	ENGINE MODEL		DESCRIPTION
	Prior to Tractor #4001	Effective Tractor #4001	
HD16A	844	16000	31,500 pound, 6-speed standard transmission, mechanical drive, track-type tractor, powered with a 163 rated horsepower naturally aspirated diesel engine.
HD16AC	844	16000	31,600 pound, 3-speed standard transmission, hydraulic torque converter drive, track-type tractor, powered with a 170 rated horsepower naturally aspirated diesel engine.
HD16D	844	16000	32,700 pound, 6-speed standard transmission, mechanical drive, track-type tractor, powered with a 163 rated horsepower naturally aspirated diesel engine.
HD16DC	844	16000	32,800 pound, 3-speed standard transmission, hydraulic torque converter drive, track-type tractor, powered with a 170 rated horsepower naturally aspirated diesel engine.
HD16FC	844	16000	33,340 pound, 3-speed standard transmission, hydraulic torque converter drive, track-type tractor, powered with a 170 rated horsepower naturally aspirated diesel engine.
HD16GC	844	16000	48,600 pound (including Front Shovel), 3-speed standard transmission, hydraulic torque converter drive, track-type tractor, powered with a 170 rated horsepower naturally aspirated diesel engine.

RECORD YOUR SERIAL NUMBERS BELOW

TRACTOR SERIAL NO. _____

ENGINE SERIAL NO. _____

SHOVEL SERIAL NO. _____

SERIAL NUMBER LOCATIONS

TRACTOR SERIAL NO. On rear face of steering clutch housing at the upper right hand corner; on late Model HD16FC it is located at the upper left hand corner. Also on small plate attached to cowl.

ENGINE SERIAL NO. On plate attached to the left hand side of the cylinder block near the rear end. Also on small plate attached to the cowl. Effective approximately March 1957, the engine serial numbering system was changed. Under the old system, a 5-digit number was used (Example: No. 85094). The new system uses the prefix "16-" with the serial number (Example: No. 16-2601). With the new prefix, the serial numbers were started in a new series, beginning with No. 16-2601.

SHOVEL SERIAL NO. On plate attached to the upper rear face of the left hand side of the shovel frame.

IMPORTANT

All parts listed herein, which have no specific usage indicated, are applicable to all models. Those parts which are used only on specific models are so indicated.

Attaching parts such as bolts, nuts, rivets, screws, washers, etc., are indented immediately following the parts which they attach.

Parts indicated with a square (□) are also available in packaged sets. Refer to section titled "PACKAGED PARTS".

The terms "right" and "left" used throughout this parts catalog are determined by facing the direction of forward travel.

INSTRUCTIONS FOR ORDERING PARTS

At the time this parts catalog was published the listed part numbers were current. It is our policy to constantly improve our machines and therefore, part numbers and design may change. When ordering parts, verify part numbers through your dealer's parts catalog which is up to date with all latest part numbers.

Order parts from the dealer covering the local territory.

ALWAYS GIVE THE MODEL AND SERIAL NUMBER OF MACHINE. IF PARTS ARE FOR AN ASSEMBLY WHICH HAS A MODEL AND/OR SERIAL NUMBER (SUCH AS ENGINE ASSEMBLY, PUMP ASSEMBLY), ALSO INCLUDE THIS INFORMATION.

To obtain parts promptly, give part name and part number.

Give post office address, town, county and state where parts are to be shipped. Also specify whether material is to be shipped by freight, express or parcel post.

Confirm all telephone or telegraph orders in writing.

Parts for standard motor accessories such as generators and starting motors should be ordered from authorized Service Stations maintained by manufacturers of these units throughout the country.

No credit will be allowed on parts unless they are returned to the dealer from whom they were purchased; from there they will be returned, at the customer's expense, to the factory for inspection.

Unless claims for shortages or errors are made immediately upon receipt of goods, they will not be considered.

When broken goods are received, a full description of the damage should be made by the carrier agent on the freight bill. If this description is insisted upon, full damage can always be collected from the transportation company.

No responsibility is assumed for delay or damage to merchandise while in transit. Our responsibility ceases upon delivery of shipment to the transportation company from whom a receipt is received showing that shipment was in good condition when delivered to them; therefore, claims (if any) should be filed with the transportation company.

The right is reserved to change the construction or material of any parts where it seems desirable to do so without incurring the obligation of installing such changes on units already delivered.

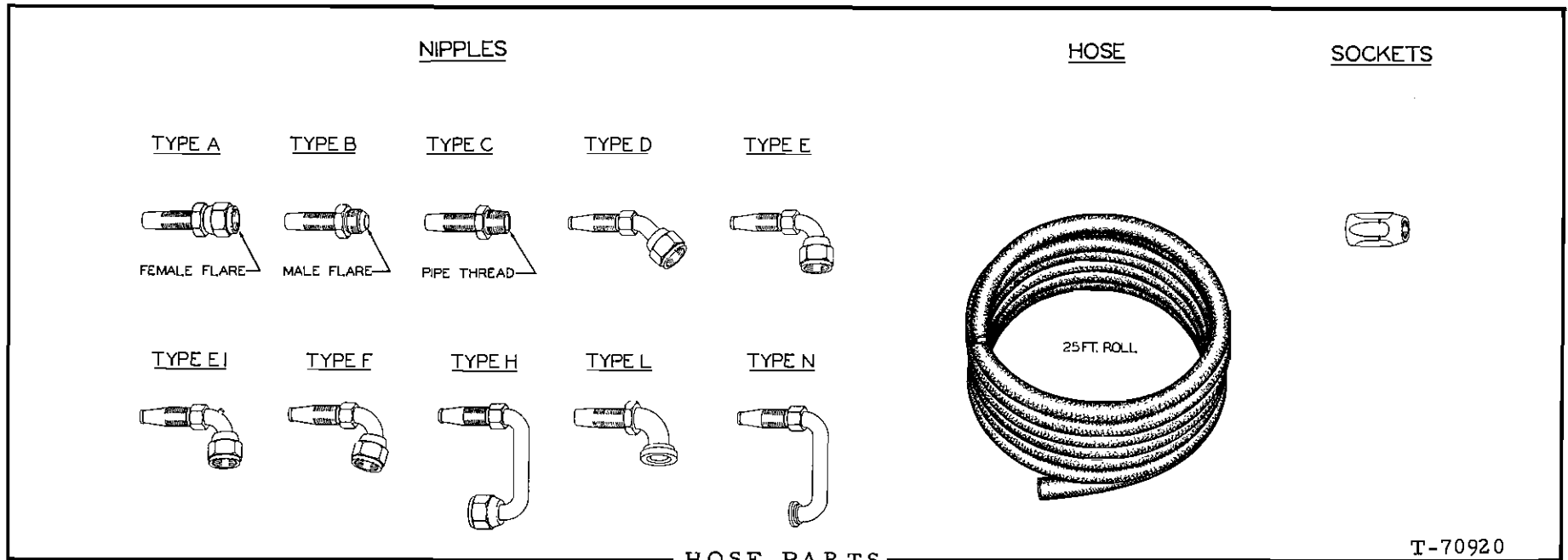
(Specifications and design subject to change without notice)

ALPHABETICAL INDEX

Accessory Drive	58, 61	Filters (Cont'd)	
Air Cleaner	181, 183, 185	Fuel	118, 120, 122
Air Heater	198, 200, 203	Heavy-Duty Fuel	107, 111, 114, 117
Air Pre-Cleaner Extension	601	Heavy-Duty Oil	89, 93, 97, 99, 101
Batteries and Cables	547, 549	Steering Oil	368, 369, 372
Battery Box Lock	525	Oil	84, 87, 87B
Battery Boxes	503, 511	Shovel Portable	667
Bevel Gear and Shaft	320	Transmission Oil	317
Bottom Guards	415	Final Drive	
Brake Control	395, 399, 403, 407	Housing	329, 333
Brakes	384, 386, 389	Intermediate Gears	338
Buckets	660	Pinion Shaft	336
Cab	607	Outboard Bearing and Seal	345
Camshaft	53, 56	Sprocket, Shaft and Gear	341
Canopy	604	Final Drive Spacer	335
Connecting Rod	26, 28	Floor	489, 493, 497, 499
Control Valve and Lines	373	Flywheel	32, 34, 36
Cowl	487	Flywheel Housing	32, 34, 36
Crankcase Guard	411	Forward High-Low Gear Shift	307
Crankshaft	30	Front Fenders	482
Cylinder Block	19, 23	Front Pusher	585
Cylinder Head	39, 43	Fuel Lines	127, 129, 131, 147, 151, 154, 156
Cylinder Sleeve	19, 23	Fuel Tank	124
Cylinders		Fuel Tank and Seat Guard	602
Dump	637	Fuel Transfer Pump	132
Lift	635	Gauges	
Diverting Valve Control and Piping	659B	Air Restriction Indicator	190
Drawbar	530	Ammeter	557, 561, 565
Elements		Engine Oil Level	19, 23
Air Cleaner	189	Engine Oil Pressure	557, 561, 565
Coolant Filter	221	Engine Temperature	557, 561, 565
Engine Oil Filter	84, 87, 87B	Fuel Level	124
Fuel Filter	118, 120, 122	Fuel Pressure	557, 561, 565
Heavy-Duty Fuel Filter	104	Hour Meter	580
Heavy-Duty Oil Filter	104	Trans. Oil Pressure	565
Hyd. Steering Oil Filter	368, 369, 372	Trans. Oil Level	270, 272
Shovel Hydraulic Tank	645, 651	Gear Shift	291, 295, 299, 303, 307
Shovel Portable Filter	667	Generator	569, 571
Transmission Oil Filter	317	Generator Regulator	569, 571
Engine Breather	63, 65	Grille Screen	586, 587, 589
Engine and Mounting	14, 17	Heat Exchanger	210, 213
Engine Clutch	236, 243	Hood	484, 485
Engine Clutch Brake	245	Hood Side Plates	597
Engine Clutch Control	249, 251	Hose Parts	6
Engine Clutch and Housing	243	Hour Meter	580
Engine Decelerator	159, 163, 167, 171	Hydraulic Oil Pump and Filter	366, 370
Engine Primer	194	Hydraulic Tank	645, 651
Engine Side Screens	593, 595	Hydraulic Track Adjuster	450
Engine Shut-off Control	175, 177	Hydraulic Steering Control	347, 353, 363
Equalizing Spring	437	Hydro-Pneumatic Accumulator	669
Exhaust Pipe	193	Injection Nozzles and Lines	138, 140
Fan	235	Injection Pump	134, 136
Filters		Injection Pump Overflow Line	145
Coolant	221	Instruments	557, 561, 565

ALPHABETICAL INDEX

Lights	
Dash	557, 561, 565
Head	537, 541
Rear Flood	578
Tail	574, 576
Lights and Wiring	537, 541
Main Frame	411
Manifolds	
Exhaust	191
Intake	178, 179
Water Inlet	210, 213
Water Outlet	215, 217, 219, 219B
Moldboard	662
Muffler	193
Numerical Index	672
Odometer	583
Oil Cooler	68, 72, 75
Oil Pan	66
Oil Pumps	77
Packaged Parts	10
Painting and Marking	532
Piston	26, 28
Power Pulley	617
Power Take-off	611, 613
Primer	194
Pull Hook	411
Pumps	
Air Heater	197
Fuel Injection	134, 136
Fuel Transfer	132
Pressure Oil	80
Primer	197
Transmission Oil	315
Scavenging Oil	82
Shovel	638, 640
Steering	356, 357, 357A
Water	205, 207, 208, 209D
Radiator and Mounting	223, 227
Radiator Curtain	590
Radiator Guard	459, 463, 467, 471, 475, 479
Rain Shield	193
Raincap	193
Rear Fenders	526, 527, 528, 529
Rear Flood Light	578
Rigid Beam	439
Rock Fork	661
Seat	503, 505, 511, 513, 515
Shovel Frame	623
Shovel Hyd. Cylinders and Piping System	627, 631
Shovel Linkage	624
Shovel Portable Filter	664
Shovel Pump and Drive	638, 640
Shovel Valve and Control	657
Speed Selection Gear Shift	299, 303
Starter	553, 554
Steering Clutches	323, 327
Steering Clutch & Final Drive Housing	329, 333
Steering Control Oil Tank	350
Steering Levers and Linkage	377, 381
Street Plates	456
Tail Light	574, 576
Thermostat	215, 217, 219, 219B
Throttle Control	159, 163, 167, 171
Timing Gears	30, 50, 53, 56
Timing Gear Housing	48
Tool Box	503, 511, 524
Tools	621, 671
Torque Converter	253, 257
Torque Converter Seal Drain	265
Track	453, 455
Track Idler	445
Track Release	449
Track Supporting Roller	443
Transmission	
Assembly	270, 272
Case and Covers	274, 275
Intermediate Shaft	279
Pinion Shaft	283, 287
Reverse Shaft	281
Top Shaft	276, 277
Transmission Oil Lines	318, 319
Transmission Oiling System	310, 312
Truck Frame	419, 423
Truck Frame Guards	426, 428, 430, 433, 434
Truck Wheel	441
Universal Joint	267, 269, 643
Valves	
Air Heater Check Valve	203
Brake	392
Diverting	659B
Exhaust	39, 43
Hyd. Track Relief	450
Intake	39, 43
Oil Cooler By-Pass	68, 72
Pressure Oil Pump Relief	77
Shovel	657
Shovel Check	645, 651
Shovel Control	657
Shovel Diverting	645, 651
Shovel Relief	645, 651
Steering Control	359, 374
Water Shut-off	221
Valve Operating Mechanism	53, 56
Water Inlet Manifold & Heat Exchanger	210, 213
Water Outlet Manifold	215, 217, 219, 219B
Water Pump	205, 207, 208, 209B



HOSE PARTS

T-70920

NOTE: Refer to right hand column for identity of interchangeable crimped-type hose (fittings not re-usable). Assembly number shown in left hand column indicates available replacement hose assembly with re-usable components; where no assembly number is listed, hose assembly is not available from factory but may be constructed in the field from data indicated.

HOSE ASSEMBLY NO. (See NOTE)	BULK HOSE (25' roll)	HOSE LENGTH (inches)	NIPPLE (#1 end)			NIPPLE (#2 end)			SOCKET (both ends)	NIPPLE FLANGE		CRIMPED-TYPE HOSE (See NOTE) Part No.
			Including SOCKET	NIPPLE only	Type	Including SOCKET	NIPPLE only	Type		Part No.	X Dim	
70083634	70920222	36-7/8	70921033	70921034	A	70921033	70921034	A	70919282			
70084002	70920222	61-3/8	70921033	70921034	A	70921033	70921034	A	70919282			
70084032	70920221	100	70920882	70919278	D	70920867	70919277	E	70919281			
70087017	70919155	30	70920849	70920302	A	70920836	70919073	C	70919075			
70089716	70920221	100	70920852	70920344	A	70920867	70919277	E	70919281			
70093516	70919156	8-1/4	70920858	70919080	B	70920838	70919074	C	70919076			
70094302	70919155	48-3/4	70920849	70920302	A	70920849	70920302	A	70919075			
70094303	70919156	49-1/4	70920850	70920303	A	70920858	70919080	B	70919076			
70094304	70919156	89-1/4	70920850	70920303	A	70920850	70920303	A	70919076			

70094306	70919155	70-3/4	70920849	70920302	A	70920849	70920302	A	70919075			
70094533	70919155	22-5/8	70920857	70919079	B	70920864	70919082	E	70919075			
70094566	70919156	32-3/4	70920858	70919080	B	70920865	70919081	E	70919076			
70094941	70919156	32-5/8	70920880	70919254	D	70920865	70919081	E	70919076			
70095057	70919155	26	70920857	70919079	B	70920864	70919082	E	70919075			
70095127	70920222	13-3/4	70921033	70921034	A	70920843	70919467	C	70919282			
70095583	70919155	20-3/4	70920857	70919079	B	70920864	70919082	E	70919075			
70095921	70920222	17	70921033	70921034	A	70920843	70919467	C	70919282			
70096022	70919155	65-1/2	70920849	70920302	A	70920857	70919079	B	70919075			
70096192	70919155	57-1/2	70920849	70920302	A	70920849	70920302	A	70919075			
70097207	70919196	48-1/8	70920847	70920301	A	70920862	70919194	E	70919143			
70097330	70919196	26	70920855	70919144	B	70920862	70919194	E	70919143			
70097339	70920222	106-1/4	70921033	70921034	A	70920875	70920232	E	70919282			
70097478	70919196	68-1/4	70920847	70920301	A	70920869	70919253	E	70919143			
70097480	70919196	35	70920847	70920301	A	70920862	70919194	E	70919143			
70097481	70919155	8-3/8	70920849	70920302	A	70920836	70919073	C	70919075			
70097488	70919196	39-1/2	70920855	70919144	B	70920869	70919253	E	70919143			
70097533	70919156	89-1/4	70920850	70920303	A	70920865	70919081	E	70919076			
70097634	70919155	8	70920849	70920302	A	70920857	70919079	B	70919075			
70097649	70919155	136-3/4	70920849	70920302	A	70920864	70919082	E	70919075			
70097651	70919156	131-3/4	70920850	70920303	A	70920880	70919254	D	70919076			
70097652	70919156	122-1/2	70920850	70920303	A	70920880	70919254	D	70919076			
70097653	70919155	149-3/4	70920849	70920302	A	70920864	70919082	E	70919075			
70097654	70919155	126-3/4	70920849	70920302	A	70920864	70919082	E	70919075			
70097655	70919155	84-3/4	70920849	70920302	A	70920864	70919082	E	70919075			
70097656	70919155	106-3/4	70920849	70920302	A	70920864	70919082	E	70919075			
70099591	70919155	7-5/16	70920857	70919079	B	70920864	70919082	E	70919075			
70621926	70919196	81-1/2	70920847	70920301	A	70920877	70919207	D	70919143			
70621954	70919196	89-1/2	70920877	70919207	D	70920862	70919194	E	70919143			
70622078	70919196	68-1/4	70920877	70919207	D	70920869	70919253	E	70919143			
70622692	70919218	26	70920850	70920303	A	70920865	70919081	E	70919076			
70623278	70920221	15-3/8	70920867	70919277	E	-----	70623615	E1	70919281			

70623280	70920221	18-1/4	70920867	70919277	E	-----	70623615	E1	70919281			
70623287	70920221	14-3/4	70920867	70919277	E	70920867	70919277	E	70919281			
70623701	70920221	54-3/4	70920867	70919277	E	70920867	70919277	E	70919281			
70623833	70920221	48-5/8	70920867	70919277	E	70920867	70919277	E	70919281			
70623850	70919155	18	70920857	70919079	B	70920836	70919073	C	70919075			
70623852	70919156	9-1/2	70920858	70919080	B	70920880	70919254	D	70919076			
70624171	70919155	154-3/4	70920849	70920302	A	70920864	70919082	E	70919075			
70624172	70919155	131-3/4	70920849	70920302	A	70920864	70919082	E	70919075			
70624183	70920221	109	70920867	70919277	E	70920867	70919277	E	70919281			
70624186	70920221	113-1/2	70920882	70919278	D	70920867	70919277	E	70919281			
70624187	70920221	16-1/8	70920874	70921042	E long	70920867	70919277	E short	70919281			
70624391	70919155	128-3/4	70920849	70920302	A	70920864	70919082	E	70919075			
70624392	70919155	156-3/4	70920849	70920302	A	70920864	70919082	E	70919075			
70624394	70919156	39-1/2	70920858	70919080	B	70920865	70919081	E	70919076			
70625217	70920795	37-5/8	70920935	70921304	B	70920928	70920970	C	70920973			
70625222	70920795	37-5/8	70920945	70922831	A	70920935	70921304	B	70920973			
70629780	70919156	9	70920865	70919081	E	-----	70919175	F	70919076			
70629785	70919156	9	70920865	70919081	E	-----	70919175	F	70919076			
70631502	70920221	20-5/8	70920852	70920344	A	70920867	70919277	E	70919281			
70631503	70920221	23-1/2	70920852	70920344	A	70920867	70919277	E	70919281			
70631578	70920221	126	70920852	70920344	A	70920867	70919277	E	70919281			
70631579	70920221	118	70920852	70920344	A	70920867	70919277	E	70919281			
70631767	70919196	7-1/8	70920862	70919194	E	70920862	70919194	E	70919143			
70631779	70919196	10	70920862	70919194	E	70920862	70919194	E	70919143			
70642447	70919218	12	70920850	70920303	A	70920865	70919081	E	70919076			
73006854	70920795	44	70920945	70922831	A	70920935	70921304	B	70920973			
73009664	70920795	55-3/4	70920945	70922831	A	70920935	70921304	B	70920973			
73009666	70920795	43	70920928	70920970	C	70920935	70921304	B	70920973			
73009667	70920795	43	70920935	70921304	B	70920935	70921304	B	70920973			
73010972	70920795	72	70920928	70920970	C	70920945	70922831	A	70920973			
73010979	70920795	72	70920928	70920970	C	70920928	70920970	C	70920973			
73011279	70920795	44-1/2	70920928	70920970	C	70626956	-----	E	70920973			

73011280	70920795	44-1/2	70920935	70921304	B	70626956	-----	E	70920973			
73011282	70920795	56	70920945	70922831	A	70626627	-----	H	70920973			
73012869	70920982	127-1/2	70627803	-----	N	73010833	-----	L	70920986			
73013683	70920795	48-1/2	70920945	70922831	A	73013682	-----	E	70920973			
73017959	70920921	29-1/4	70920852	70920344	A	70920852	70920344	A	70919281			
74335557	70919196	7-7/8	70920847	70920301	A	70920833	70919200	C	70919143			
74365676	70919196	7-3/4	70920847	70920301	A	70920833	70919200	C	70919143			
74365678	70919196	15-3/4	70920847	70920301	A	70920833	70919200	C	70919143			
74376111	70919156	37-3/8	70920850	70920303	A	-----	70919175	F	70919076			
74376742	70919156	17	70920880	70919254	D	70920872	70919158	E	70919076			
74377153	70919772	11-1/4	70920863	70920155	E	70920863	70920155	E	70919768			
74377457	70919156	26-1/4	70920880	70919254	D	70920872	70919158	E	70919076			
74377458	70919155	22-3/4	70920879	70919159	D	70920864	70919082	E	70919075			

PACKAGED PARTS

PACKAGE NO.	DESCRIPTION
-----	BLOCK KIT, clutch camshaft (See page 245)
-----	CLUTCH KIT, over-running, torque converter (See page 261)
-----	ELEMENT KITS, filter and breather (See HYDRAULIC TANK section)
-----	FILTER KIT, hydraulic system fluid (See SHOVEL PORTABLE FILTER)
74377389	GASKET KIT, cylinder head (Tractors prior to serial No. 4001)
	1 74361537 GASKET (Not for HD16. Discard)
	4 74364131 WASHER, sealing, rocker cover nut
	1 74366244 GASKET, exhaust flange
	2 74371054 GASKET, cylinder head
	1 74371897 GASKET, water manifold connecting
	2 74375720 GASKET, rocker cover
	12 74375865 GASKET, intake and exhaust manifold
	2 74376430 GASKET, breather connector
	1 74376520 GASKET, water manifold cover
	1 74386137 GASKET, upper water by-pass line
	6 74511204 GASKET, injection nozzle
	1 74660344 GASKET (Not for HD16. Discard)
	6 74660355 GASKET, water manifold
74386740	GASKET KIT, cylinder head (Tractors serial No. 4001 and up)
	8 74255956 SLEEVE, fuel line
	1 74361551 GASKET, air intake elbow
	1 74362458 GASKET, upper water by-pass tube
	1 74366244 GASKET, exhaust flange
	12 74375865 GASKET, intake and exhaust manifold
	6 74376483 GASKET, water manifold
	1 74376520 GASKET, thermostat cover
	2 74376578 GASKET, cylinder head lower cover
	2 74376656 GASKET, breather connector
	4 74376749 WASHER, rocker cover
	6 74378031 GASKET, injection nozzle
	2 74379026 GASKET, rocker cover
	2 74379167 GASKET, center exhaust manifold (Discard. Not for HD16)
	1 74386137 GASKET, water by-pass tube
	2 74386310 GASKET, cylinder head
	2 74386370 GASKET, cylinder head
	1 74392279 GASKET, water manifold connecting
74377387	GASKET KIT, intermediate, engine cylinder block (Tractors prior to serial No. 4001)
	1 74030481 GASKET, lower water by-pass line
	2 74113897 GASKET, regulating valve nut
	1 74251601 GASKET, tachometer drive adapter
	1 74255904 O-RING, flywheel housing
	3 74310257 GASKET, oil filler and water elbows
	1 74336897 RING, sealing flywheel housing
	1 74361740 GASKET, water pump gear cover
	6 74364131 WASHER, sealing, push rod cover capscrew
	1 74367090 GASKET, tachometer hole nut

(Continued)

PACKAGED PARTS

PACKAGED NO. DESCRIPTION

74377387 (Cont'd) GASKET KIT, intermediate, engine cylinder block
(Tractors prior to serial No. 4001)

4	74371027	GASKET, oil lines
2	74371160	GASKET, water inlet bonnet (Discard 1)
1	74371289	GASKET, oil pan cover
4	74371345	GASKET, oil lines
1	74372429	GASKET, water inlet manifold
1	74373069	GASKET, oil pan cover
1	74376398	GASKET, water pump
1	74376605	GASKET, fuel transfer pump
1	74376609	GASKET, timing gear cover
4	74385520	GASKET, water inlet manifold
1	74386495	GASKET, oil by-pass valve
1	74660423	GASKET, oil pump discharge tube
1	74660429	GASKET, crankcase rear seal housing
1	74660457	GASKET, accessory drive
1	74660492	GASKET, timing gear housing
1	74660517	GASKET, cylinder block cover plate
2	74660564	GASKET, push rod cover

74378062 GASKET KIT, intermediate, engine cylinder block (Tractors
serial No. 4001 and up)

2	70035249	GASKET, oil drain plug
16	70923379	O-RING, injection line connector and water tubes
2	70923651	O-RING, bonnet tube
5	70923934	O-RING, heat exchanger and oil filter
2	74113897	GASKET, regulating valve nut
2	74255631	O-RING, oil cooler
4	74255665	O-RING, injection pump bracket
1	74255904	O-RING, flywheel housing
3	74310257	GASKET, oil filler and water outlet elbow (Discard 1 on HD16)
1	74336897	RING, sealing, flywheel housing
1	74361740	GASKET, water pump gear cover
1	74367090	GASKET, tachometer hole nut
1	74371027	GASKET, gear housing closure cover
2	74371160	GASKET, water inlet bonnet (Discard 1 on HD16)
1	74371289	GASKET, oil pan cover
4	74371345	GASKET, oil lines
1	74371742	GASKET (Discard. Not for HD16)
1	74373069	GASKET, oil pan cover
1	74376398	GASKET, water pump
1	74376603	GASKET, accessory drive
1	74376605	GASKET, fuel transfer pump
1	74376609	GASKET, timing gear housing cover
1	74376811	GASKET, lower water by-pass tube
4	74385520	GASKET, water inlet manifold
1	74386495	GASKET, water and oil manifold, lower
1	74389291	GASKET, water and oil manifold, upper
1	74660423	GASKET, oil pump discharge tube
1	74660492	GASKET, timing gear housing
1	74660517	GASKET, cylinder block cover plate
2	74660564	GASKET, push rod cover
1	74376749	WASHER, push rod cover

PACKAGED PARTS

PACKAGE NO.	DESCRIPTION
-----	LEVER KIT, pressure plate (See page 239)
-----	LINING KITS, brake band (See BRAKES section)
-----	LOCK KIT, clutch adjustment (See page 245)
-----	LUBRICATION KIT, steering clutch throwout bearing (See first type STEERING CLUTCHES)
-----	PIPING AND ADAPTER KIT (See SHOVEL PORTABLE FILTER)
74385698	PISTON AND SLEEVE KIT (Tractors prior to serial No. 4001)
	2 74253643 RETAINER, piston pin
	1 74366656 PISTON
	1 74369871 PIN, piston
	1 74379178 O-RING, cylinder sleeve
	1 74379277 RING SET, piston
	2 74385485 O-RING, cylinder sleeve
	1 74386282 SLEEVE, cylinder
74388363	PISTON AND SLEEVE KIT (Tractor serial No. 4001 and up)
	2 74253643 RETAINER, piston pin
	1 74379178 O-RING, cylinder sleeve
	1 74385424 PIN, piston
	2 74385485 O-RING, cylinder sleeve
	1 74385734 PISTON
	1 74388359 RING SET, piston
	1 74386282 SLEEVE, cylinder
-----	REPAIR KIT, dump cylinder (See page 637)
-----	REPAIR KIT, lift cylinder (See page 635)
-----	RING SETS (See PISTON AND CONNECTING ROD section)
-----	RING SET, snap, shovel hydraulic pump (See SHOVEL PUMP AND DRIVE)
-----	SEAL KIT (See FINAL DRIVE OUTBOARD BEARING AND SEAL)
-----	SEAL KIT (See FINAL DRIVE SPROCKET, SHAFT AND GEAR)
-----	SEAL KIT (See TRACK IDLER)
-----	SEAL KIT (See TRACK SUPPORTING ROLLER)
-----	SEAL KIT (See TRUCK WHEELS)
-----	SEAL KIT, torque converter fluid (See page 261)
-----	TRANSFER KIT (See PAINTING AND MARKING)
70631923	TRUCK FRAME KIT, left (For frame replacement on Model HD16GC tractors prior to serial No. 5616)
	1 70631915 FRAME ASSY., left
	3 70078314 WASHER, plain, guard shimming
	32 70631290 BLOCK, tapped, truck wheel capscrew
	1 70631291 BRACKET ASSY., track idler, left
	1 70631292 BRACKET ASSY., track idler, right
	16 70632142 SHIM, tractor leveling
	4 70632254 BLOCK, tapped, rigid beam capscrews
	2 70638957 PLATE, guide, track idler
70631924	TRUCK FRAME KIT, right (For frame replacement on Model HD16GC tractors prior to serial No. 5616)
	1 70631916 FRAME ASSY., right
	3 70078314 WASHER, plain, guard shimming

(Continued)

PACKAGED PARTS

PACKAGE NO.	DESCRIPTION
70631924 (Cont'd)	TRUCK FRAME KIT, right (For frame replacement on Model HD16GC tractors prior to serial No. 5616)
32	70631290 BLOCK, tapped, truck wheel capscrew
1	70631291 BRACKET ASSY., track idler, left
1	70631292 BRACKET ASSY., track idler, right
16	70632142 SHIM, tractor leveling
4	70632254 BLOCK, tapped, rigid beam capscrews
2	70638957 PLATE, guide, track idler
70632139	TRUCK FRAME KIT, left (For frame replacement on Model HD16D, DC tractors prior to serial No. 5655)
1	70631621 FRAME ASSY., left
3	70078314 WASHER, plain, guard shimming
1	70630546 SEAT, equalizing spring
2	70631033 BLOCK, tapped, equalizing spring seat
28	70631290 BLOCK, tapped, truck wheel capscrew
1	70631291 BRACKET ASSY., track idler, left
1	70631292 BRACKET ASSY., track idler, right
14	70632142 SHIM, tractor leveling
2	70638957 PLATE, guide, track idler
70632140	TRUCK FRAME KIT, right (For frame replacement on Model HD16D, DC tractors prior to serial No. 5655)
1	70631622 FRAME ASSY., right
3	70078314 WASHER, plain, guard shimming
1	70630546 SEAT, equalizing spring
2	70631033 BLOCK, tapped, equalizing spring seat
28	70631290 BLOCK, tapped, truck wheel capscrew
1	70631291 BRACKET ASSY., track idler, left
1	70631292 BRACKET ASSY., track idler, right
14	70632142 SHIM, tractor leveling
2	70638957 PLATE, guide, track idler
70632307	TRUCK FRAME KIT, left (For frame replacement on Model HD16A, AC tractors prior to serial No. 5701)
1	70632169 FRAME ASSY., left
3	70078314 WASHER, plain, guard shimming
1	70630546 SEAT, equalizing spring
2	70631033 BLOCK, tapped, equalizing spring seat
24	70631290 BLOCK, tapped, truck wheel capscrew
1	70631291 BRACKET ASSY., track idler, left
1	70631292 BRACKET ASSY., track idler, right
12	70632142 SHIM, tractor leveling
2	70638957 PLATE, guide, track idler
70632308	TRUCK FRAME KIT, right (For frame replacement on Model HD16A, AC tractors prior to serial No. 5701)
1	70632170 FRAME ASSY., right
3	70078314 WASHER, plain, guard shimming
1	70630546 SEAT, equalizing spring
2	70631033 BLOCK, tapped, equalizing spring seat
24	70631290 BLOCK, tapped, truck wheel capscrew
1	70631291 BRACKET ASSY., track idler, left
1	70631292 BRACKET ASSY., track idler, right
12	70632142 SHIM, tractor leveling
2	70638957 PLATE, guide, track idler

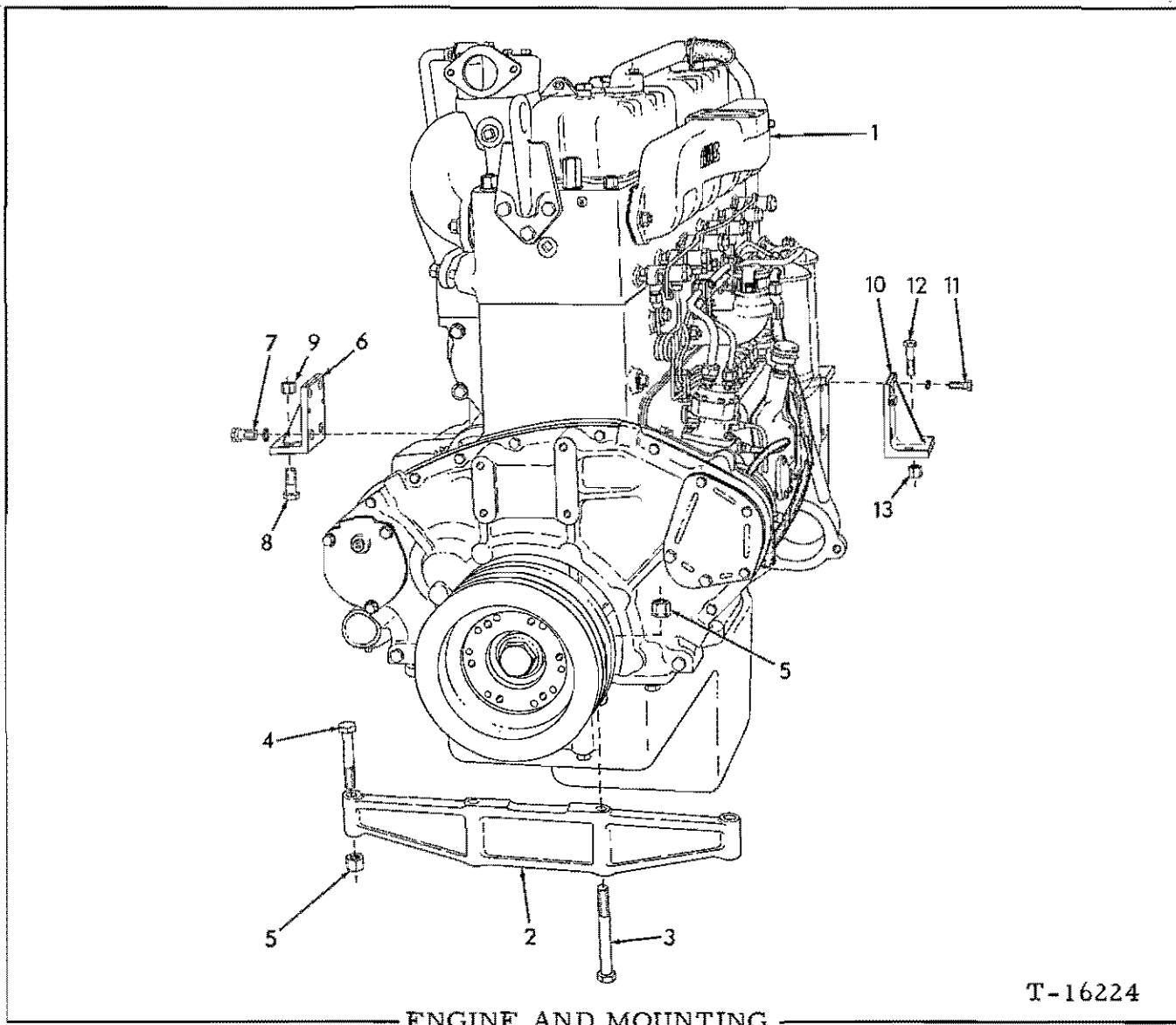
PACKAGED PARTS

PACKAGE NO.	DESCRIPTION
70632551	TRUCK FRAME KIT, left (For frame replacement on Model HD16FC)(Tractors prior to serial No. 5632)
	1 70631913 FRAME ASSY., left
	3 70078314 WASHER, plain, guard shimming
	28 70631290 BLOCK, tapped, truck wheel capscrew
	1 70631291 BRACKET ASSY., track idler, left
	1 70631292 BRACKET ASSY., track idler, right
	14 70632142 SHIM, tractor leveling
	4 70632554 BLOCK, tapped, rigid beam capscrews
	2 70638957 PLATE, guide, track idler
70632552	TRUCK FRAME KIT, right (For frame replacement on Model HD16FC)(Tractors prior to serial No. 5632)
	1 70631914 FRAME ASSY., right
	3 70078314 WASHER, plain, guard shimming
	28 70631290 BLOCK, tapped, truck wheel capscrew
	1 70631291 BRACKET ASSY., track idler, left
	1 70631292 BRACKET ASSY., track idler, right
	14 70632142 SHIM, tractor leveling
	4 70632554 BLOCK, tapped, rigid beam capscrews
	2 70638957 PLATE, guide, track idler
70654505	STARTER KIT (Provides solenoid type starter to replace original mechanical type)
	1 70079356 CABLE, switch to starter
	1 70095860 CABLE, switch to ammeter
	1 70240962 SWITCH ASSY.
	1 70620350 MOTOR
	1 S-4415 WIRING DIAGRAM

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T-16224

ENGINE AND MOUNTING

USAGE: Tractors prior to serial No. 4001 (HD844 series engine)

*Used prior to tractor serial No. 2508, excluding No. 2506

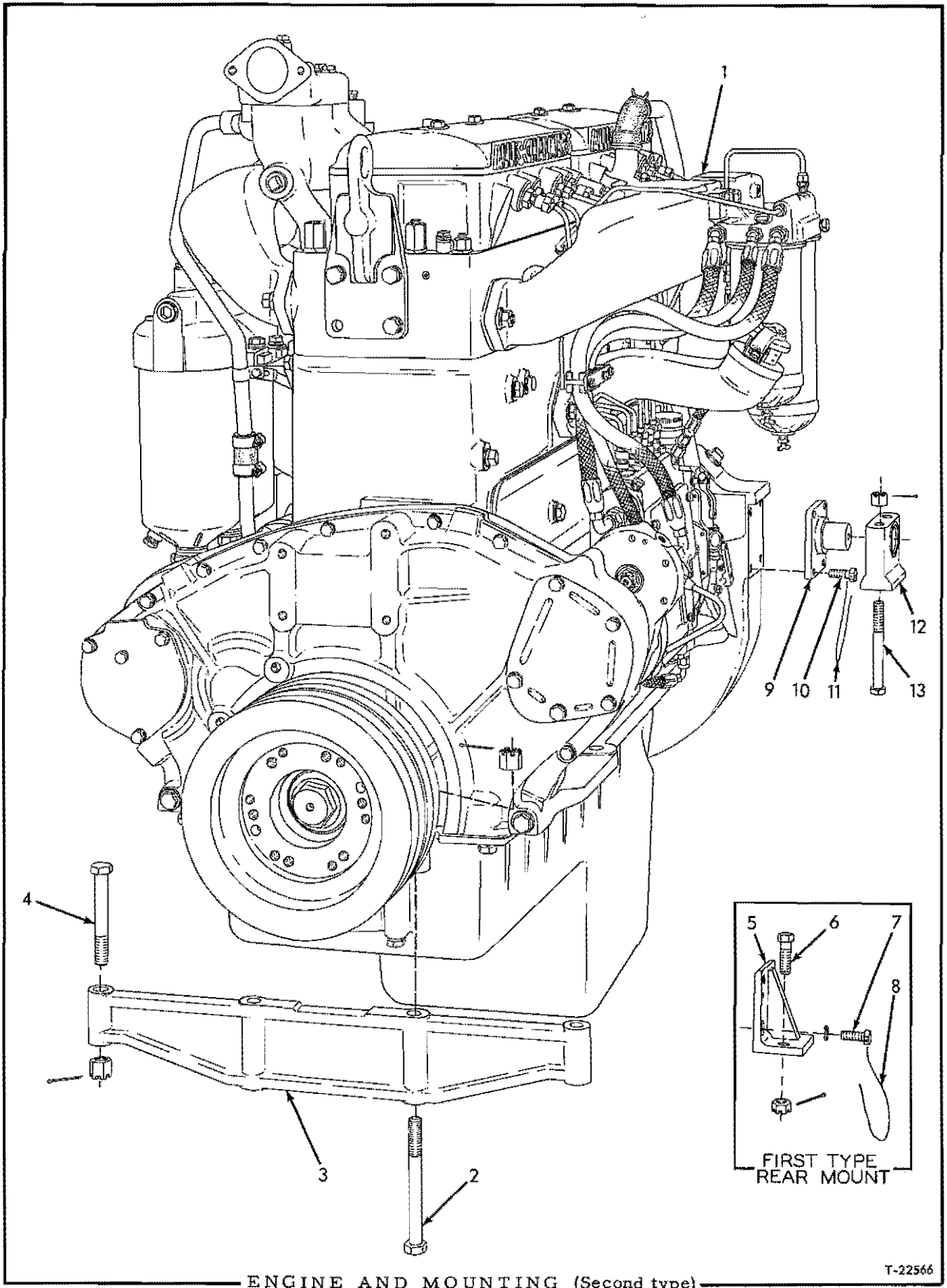
**Effective with tractor serial No. 2508, including No. 2506

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	-----	1	1	ENGINE ASSY. (For tractors without torque converter)(Order Engine Assy. 74386320 and conversion items listed on Parts Bulletin CM-323)
	-----	1	1	ENGINE Assy. (For tractors with torque converter)(Order Engine Assy. 74386320 and conversion items listed on Parts Bulletin CM-323)

(Continued)

ENGINE AND MOUNTING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
2	70083778	1 1	HANGER, engine supporting, front
3	70023614	2 2	CAPSCREW, 5/8"NF x 5-3/4"(Original equipment)
	70070935	2 2	CAPSCREW, 5/8"NF x 5" Used with service replacement mounting bracket only
	70070836	2 2	LOCK, capscrew
4	70070299	2 2	CAPSCREW, 5/8"NF x 4"
5	70072366	4 4	NUT, high, 5/8"NF
6	70081742	1 -	BRACKET, engine supporting, right rear
	70092456	- 1	BRACKET, engine supporting, right rear
7	70035733	4 -	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	4 -	LOCKWASHER, 1/2"
	70035440	- 4	CAPSCREW, 5/8"NC x 1-1/2"
	70904209	- 4	LOCKWASHER, 5/8"
8	70089129	2 -	CAPSCREW, drilled-end, 5/8"NF x 2"
	70013465	- 2	CAPSCREW, 3/4"NF x 2-1/2"
9	70912840	2 -	NUT, slotted, 5/8"NF
	70900806	2 -	PIN, cotter, 1/8" x 1"
	70012767	- 2	NUT, high, 3/4"NF
10	70081742	1 -	BRACKET, engine supporting, left rear
	70092463	- 1	BRACKET, engine supporting, left rear
11	70035733	4 -	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	4 -	LOCKWASHER, 1/2"
	70035440	- 4	CAPSCREW, 5/8"NC x 1-1/2"
	70904209	- 4	LOCKWASHER, 5/8"
12	70035248	2 -	CAPSCREW, 5/8"NF x 2-1/4"
	70013465	- 2	CAPSCREW, 3/4"NF x 2-1/2"
13	70072366	2 -	NUT, high, 5/8"NF
	70012767	- 2	NUT, high, 3/4"NF



ENGINE AND MOUNTING (Second type)

T-22566

ENGINE AND MOUNTING

USAGE: Tractors serial No. 4001 and up (16000 series engine)

*Used prior to tractor serial No. 5062
 **Effective with tractor serial No. 5062

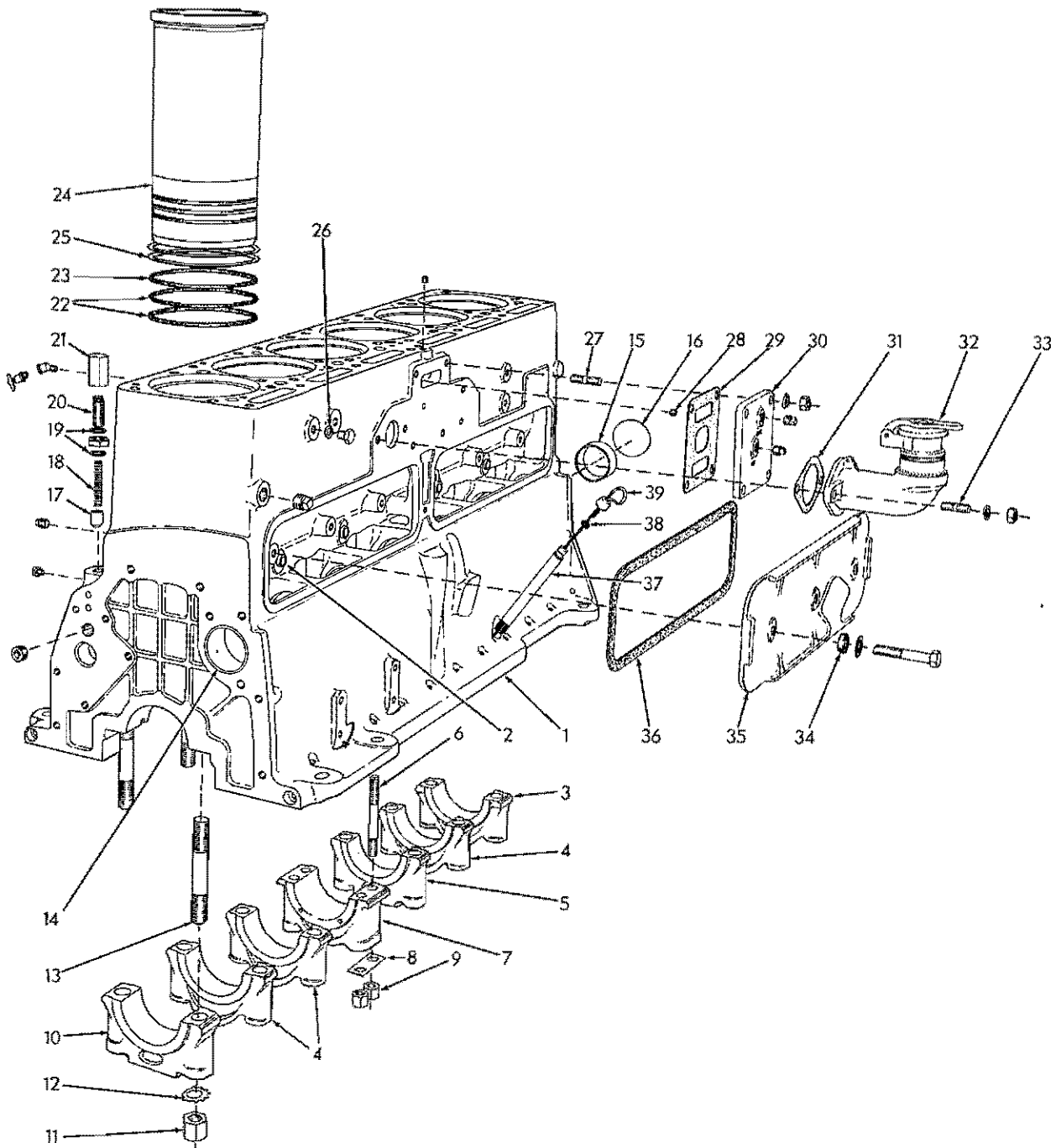
ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
<u>NOTE:</u> Each engine assembly listed below includes oil filter, oil cooler and fuel filter but does not include air cleaner, fan, generator, muffler, starter or the first stage fuel filter element. This element must be added if tractor is not equipped with Special Heavy-duty Fuel Filter.			
1	74377000	1 1	ENGINE ASSY. (For tractors without torque converter)
	74377110	1 1	ENGINE ASSY. (For tractors with torque converter)
2	70023614	2 -	CAPSCREW, engine mounting, front (5/8"NF x 5-3/4")(Used prior to tractor #4968)(Original equipment)
	70072366	2 -	NUT, high, 5/8"NF
	70099061	2 2	CAPSCREW, engine mounting, front (drilled-end, 5/8"NF x 5-3/4")(Effective with tractor #4968)(Original equipment)
	70913280	2 2	NUT, high, slotted 5/8"NF
	70900806	2 2	PIN, cotter 1/8" x 1"
	70070935	2 2	CAPSCREW, engine mounting (5/8"NF x 5") (Used with service replacement mounting bracket only)
	70070836	1 1	LOCK, capscrew (Used with service replacement mounting bracket only)
3	70083778	1 1	HANGER, engine supporting, front end
4	70045524	2 -	CAPSCREW, front hanger (5/8"NF x 4-1/2")(Used prior to tractor #4968)
	70072366	2 -	NUT, high, 5/8"NF
	70911044	2 -	NUT, regular, 5/8"NF
	70099062	2 2	CAPSCREW, front hanger (drilled-end, 5/8"NF x 4")(Effective with tractor #4968)
	70913280	2 2	NUT, high, slotted, 5/8"NF
	70900806	2 2	PIN, cotter, 1/8" x 1"
5	70092455	1 -	BRACKET, rear mounting, left
	70096549	1 -	BRACKET, rear mounting, right
6	70012984	4 -	CAPSCREW, 3/4"NF x 2-3/4" } Used prior to tractor #4266
	70012767	4 -	NUT, high, 3/4"NF
	70911045	4 -	NUT, regular, 3/4"NF
	70099434	4 -	CAPSCREW, drilled-end, 3/4"NF x 2" } Effective with tractor #4266
	70912331	4 -	NUT, slotted, 3/4"NF
	70900808	4 -	PIN, cotter, 1/8" x 1-1/2"
7	70023619	8 -	CAPSCREW, drilled-hd., 5/8"NC x 1-1/2"
	70904209	8 -	LOCKWASHER, 5/8"
8	70023633	4 -	WIRE, locking, 1/16" x .12"

(Continued)

ENGINE AND MOUNTING (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
9	70099307	-	1	TRUNNION, rear mounting, left side
	70099308	-	1	TRUNNION, rear mounting, right side
10	70023619	-	8	CAPSCREW, drilled-hd., 5/8"NC x 1-1/2"
11	70023633	-	4	WIRE, locking, 1/16" x 12"
12	70631773	-	2	BRACKET, engine supporting, rear
13	70099435	-	4	CAPSCREW, drilled-end, 3/4"NF x 6-3/4"
	70910879	-	4	NUT, high, slotted, 3/4"NF
	70900808	-	4	PIN, cotter, 1/8" x 1-1/2"





CYLINDER BLOCK (First type)

T-13105

CYLINDER BLOCK

USAGE: Tractors prior to serial No. 4001 (HD844 series engine)

ITEM	PART NO.	QTY.	DESCRIPTION
1	74374324	1	BLOCK ASSEMBLY, cylinder (Includes items 3 thru 16, 26, 28 and hardware indented below)(Engines prior to #81868. Uses pressed-in idler gear shaft)
	74373969	1	BLOCK ASSEMBLY, cylinder (Includes items 2 thru 15, 26, 28 and hardware indented below)(Effective with engine #81868. Uses flanged idler gear shaft)
	70919134	6	PLUG, pipe, hex-hd., 1/8"NPT (oil gallery)
	70917673	1	PLUG, pipe, socket-hd., 1/8"NPT (top of block)
	70918850	2	PLUG, pipe, hex-socket, 1/4"NPT (water holes)
	70904223	2	PLUG, pipe, ctsk-hd., 1/2"NPT (oil gallery)
	70901654	1	PLUG, pipe, sq-hd., 1/2"NPT (water hole)
	70907058	1	ELBOW, street, 45°, 1/4"NPT (water-drain)
	74255363	1	COCK, drain, 1/4"NPT
2	-----	4	DOWEL, valve lifter bracket (See VALVE OPERATING MECHANISM)
3	74377325	1	*CAP, main bearing, rear
4	74377321	3	*CAP, main bearing, intermediate
5	74377322	1	*CAP, main bearing, intermediate (No. 5)
6	74375668	4	STUD, center main bearing (5/8" diam.)
7	74377324	1	*CAP, main bearing, center
8	74360051	2	PLATE, locking, center main bearing stud nut
9	74360048	4	NUT, center main bearing stud (5/8"NF)
10	74377320	1	*CAP, main bearing, front
11	74303199	12	NUT, main bearing stud (7/8"NF)
12	74372515	12	LOCKWASHER, main bearing stud nut
13	74375679	8	STUD, main bearing (7/8" diam., 5-3/4" long)
	74375681	4	STUD, main bearing (7/8" diam., 6" long)
14	74660389	1	BEARING, camshaft, front
15	74660440	3	BEARING, camshaft, rear and intermediate
16	74374560	1	PLUG, camshaft hole
17	74500230	1	PISTON, oil pressure regulating valve
18	74660358	1	SPRING, oil pressure regulating valve
19	74113897	2	□ GASKET, regulating valve nut (Original equipment. Not used with SCREW 74389058)

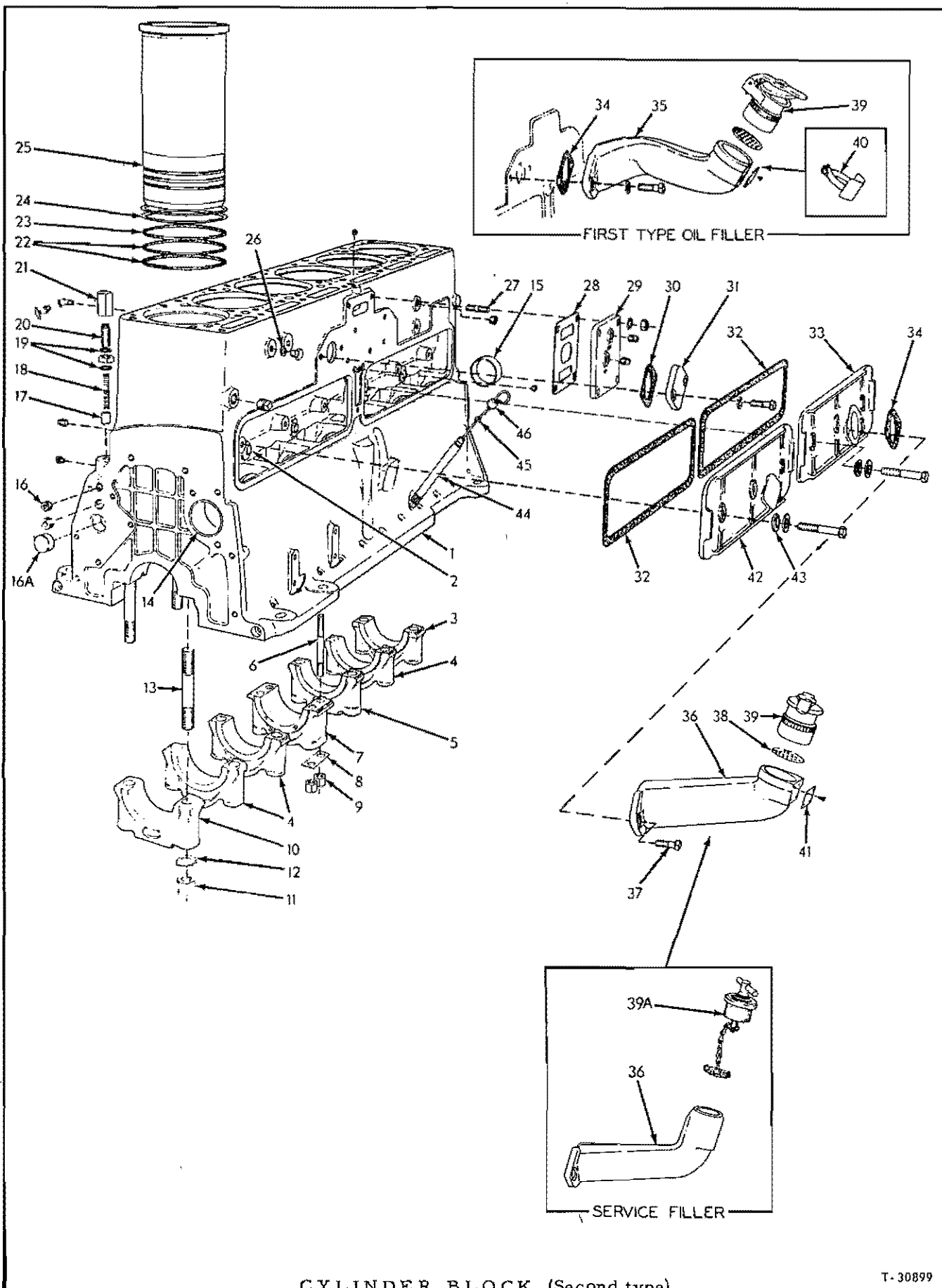
* Replacement bearing caps are semi-finished and must be line-bored after installing

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CYLINDER BLOCK (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
20	-----	1	SCREW, oil pressure regulating valve (Original equipment)
	74389058	1	SCREW, oil pressure regulating valve (Nylok insert)(Service replacement)
	70910847	1	NUT, jam, 3/4"NF
21	-----	1	NUT, cap, oil pressure regulating valve (Original equipment)(Order SCREW 74389058)
22	74379178	6	O-RING, cylinder sleeve (Black. For lower groove)(For early type sleeves with tear-drop grooves)
	74385485	12	□ O-RING, cylinder sleeve (Red. For lower grooves)(Not for early type sleeves with tear-drop grooves)
23	74379178	6	□ O-RING, cylinder sleeve (Upper groove)
24	74386282	6	□ SLEEVE, cylinder
25	74368204	-	SHIM, cylinder sleeve (.005" thick)
	-----	-	SHIM, cylinder sleeve (.008" thick)
	74368205	-	SHIM, cylinder sleeve (.010" thick)
	74368206	-	SHIM, cylinder sleeve (.015" thick)
	74369002	-	SHIM, cylinder sleeve (.020" thick)
			Use as required when re-machining block
26	74119937	2	GASKET, plugging screw
	70919229	2	CAPSCREW, 1/2"NC x 1/2"
27	74300570	4	STUD, cover plate
	70904208	4	LOCKWASHER, 1/2"
	70910195	4	NUT, 1/2"NF
28	74005193	2	RESTRICTOR, rocker oil supply
29	74660517	1	□ GASKET, cylinder block cover plate
30	74364271	1	PLATE, cover, cylinder block hole
	70901652	2	PLUG, pipe, 1/4"NPT
31	74310257	1	□ GASKET, oil filler pipe
32	74371554	1	PIPE ASSEMBLY, oil filler (Includes cap)
33	74300570	2	STUD, oil filler pipe
	70904208	2	LOCKWASHER, 1/2"
	70910195	2	NUT, 1/2"NF
34	74364131	6	□ WASHER, push rod cover capscrew (rubber)
35	74379179	2	COVER, push rod
	70903642	6	CAPSCREW, 1/2"NC x 2-1/2"
	70900818	6	WASHER, plain, U. S. Std., 1/2"
36	74660564	2	□ GASKET, push rod cover
37	74371359	1	ADAPTER, oil level gauge
38	74506607	1	SEAL, oil level gauge
39	74379241	1	GAUGE ASSEMBLY, oil level (Includes item 38)

MEMO



CYLINDER BLOCK (Second type)

T-30899

CYLINDER BLOCK

USAGE: Tractors serial No. 4001 and up (16000 series engine)

ITEM	PART NO.	QTY.	DESCRIPTION
1	74386459	1	BLOCK ASSEMBLY, cylinder (Includes items 2 thru 16 and hardware indented below)(If for engines prior to #16-4582 also order 1 MANIFOLD 74385541, 1 PLUG 70901653 and 4 GASKETS 74385520)
	-----	2	DOWEL, flywheel housing (See FLYWHEEL AND HOUSING)
	70919134	1	PLUG, pipe, hex-hd., 1/8"NPT
	70919840	4	PLUG, pipe, hex-hd., 1/4"NPT
	70920333	1	PLUG, pipe, hex-hd., 3/8"NPT
	70917673	2	PLUG, pipe, hex-socket, 1/8"NPT
	70918850	1	PLUG, pipe, hex-socket, 1/4"NPT
	70918851	4	PLUG, pipe, hex-socket, 3/4"NPT
	70904224	2	PLUG, pipe, sq-socket, 3/4"NPT
	70915433	1	COCK, drain, 1/4"NPT
	70907058	1	ELBOW, street, 45°, 1/4"NPT (water drain)(Used prior to engine #16-05389)
2	-----	4	DOWEL, valve lifter bracket (See VALVE OPERATING MECHANISM)
3	74377325	1	*CAP, main bearing, rear
4	74377321	3	*CAP, main bearing, intermediate
5	74377322	1	*CAP, main bearing, intermediate (No. 5)
6	74375668	4	STUD, center main bearing (5/8" diam.)
7	{ 74379666	1	*CAP, main bearing, center
	{ -----	4	PIN, dowel, thrust flange (See CRANKSHAFT)
8	74360051	2	PLATE, locking, center main bearing stud nut
9	74360048	4	NUT, center main bearing stud (5/8"NF)
10	74377320	1	*CAP, main bearing, front
11	74303199	12	NUT, main bearing stud (7/8"NF)
12	74372515	12	LOCKWASHER, main bearing stud nut
13	{ 74375679	8	STUD, main bearing (7/8" diam., 5-3/4" long)
	{ 74375681	4	STUD, main bearing (7/8" diam., 6" long)
14	{ 74660389	1	BEARING, camshaft, front
	{ 74660440	2	BEARING, camshaft, intermediate
15	{ 74660440	1	BEARING, camshaft, rear (1-3/8" long)(Used prior to engine #16-4773)
	{ 74660389	1	BEARING, camshaft, rear (1-7/8" long)(Effective with engine #16-4773)
16	74389943	1	RESTRICTOR, oil
16A	74387189	1	PLUG, crankcase (Effective with engine #16-05389)(Closes hole formerly used for timing idler gear shaft)
17	74500230	1	PISTON, oil pressure regulating valve
18	74660358	1	SPRING, oil pressure regulating valve

* Replacement bearing caps are semi-finished and must be line-bored after installing

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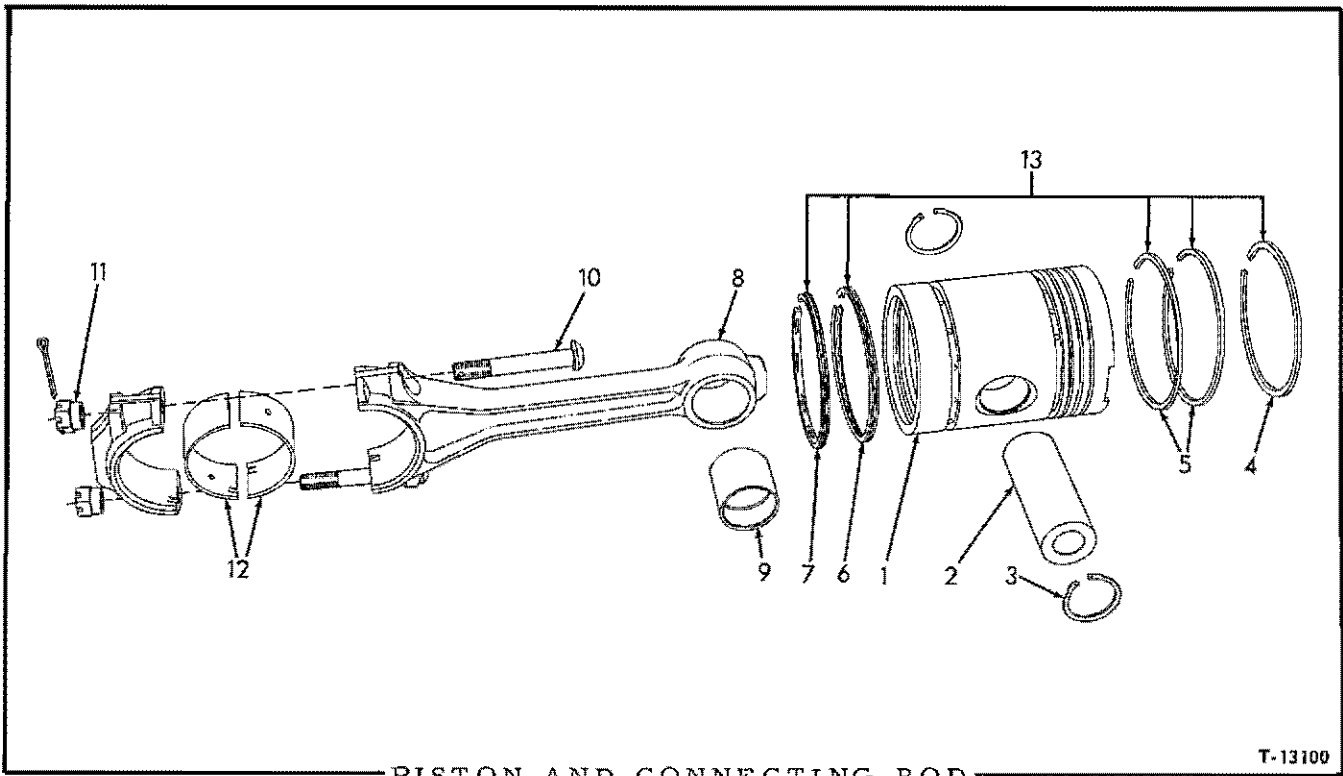
CYLINDER BLOCK (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
19	74113897	2	□ GASKET, regulating valve nut (Original equipment. Not used with SCREW 74389058)
20	-----	1	SCREW, oil pressure regulating valve (Original equipment)
	74389058	1	SCREW, oil pressure regulating valve (Nylok insert)(Service replacement)
	70910847	1	NUT, jam, 3/4"NF
21	-----	1	NUT, cap, oil pressure regulating valve (Original equipment)(Order SCREW 74389058)
22	74379178	6	O-RING, cylinder sleeve (Black. For lower groove)(Used prior to engine #16-3721. For early type sleeves with tear-drop grooves)
	74385485	12	□ O-RING, cylinder sleeve (Red. For lower grooves)(Effective with engine #16-3721. Not for early type sleeves with tear-drop grooves)
23	74379178	6	□ O-RING, cylinder sleeve (For upper groove)
24	74379742	-	SHIM, cylinder sleeve (.002" thick)
	74368204	-	SHIM, cylinder sleeve (.005" thick)
	-----	-	SHIM, cylinder sleeve (.008" thick)
	74368205	-	SHIM, cylinder sleeve (.010" thick)
	74368206	-	SHIM, cylinder sleeve (.015" thick)
	74369002	-	SHIM, cylinder sleeve (.020" thick)
			Use as required when re-machining block
25	74386282	6	□ SLEEVE, cylinder
26	74119937	2	GASKET, plugging screw
	70917177	2	CAPSCREW, 1/2"NC x 1/2"
27	74300570	4	STUD, cover plate (Used prior to engine #16-4773)
	70904208	4	LOCKWASHER, 1/2"
	70910195	4	NUT, 1/2"NF
28	74660517	1	□ GASKET, cylinder block cover plate (Used prior to engine #16-4773)
29	74364271	1	PLATE, cover, cylinder block hole (Used prior to engine #16-4773)
	70901652	2	PLUG, pipe, 1/4"NPT
30	74310257	1	GASKET, oil filler hole cover (Effective with engine #16-4236)
31	74331522	1	PLATE, cover, oil filler hole (Effective with engine #16-4236)
	70915666	2	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	2	LOCKWASHER, 1/2"
32	74660564	2	□ GASKET, push rod cover (cork)(Used prior to engine #16-4236)
	74377120	2	GASKET, push rod cover (raybestos)(Effective with engine #16-4236)

(Continued)

CYLINDER BLOCK (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
33	74379179	1	COVER, push rod, rear (Used prior to engine #16-4236)
	74379197	1	COVER, push rod, rear (Effective with engine #16-4236)
	70903642	3	CAPSCREW, 1/2"NC x 2-1/2"
	70912333	3	WASHER, plain
34	74310257	1	□ GASKET, oil filler pipe
35	74377021	1	PIPE ASSEMBLY, oil filler (Includes items 38 and 39)(Used prior to engine #16-4236)
	70919048	2	CAPSCREW, 1/2"NC x 1-5/8"
	70904208	2	LOCKWASHER, 1/2"
36	-----	1	ELBOW ASSEMBLY, oil filler (Includes items 38, 39 and 41)(Effective with engine #16-4236. Order 74389040 ELBOW and item 39A)
	74389040	1	ELBOW, oil filler (Service replacement only. Requires CLOSURE ASSEMBLY 74386863)
37	74379198	2	CAPSCREW, 1/2"NC x 1-3/8" (Nylok)
38	74335022	1	STRAINER, oil filler
39	74366461	1	CAP ASSEMBLY, oil filler (Serviced only as a unit)(Original equipment)
39A	74354449	1	CLOSURE ASSEMBLY, oil filler (Serviced only as a unit)(Service replacement only. Used with ELBOW 74389040)
40	74379291	1	PLATE AND STRAP ASSEMBLY, oil data (Used prior to engine #16-4131)
41	74379141	1	PLATE, oil data (Effective with engine #16-4131)
	70904516	4	SCREW, drive, #6 x 1/4"
42	74389809	1	COVER, push rod, front
	70903642	3	CAPSCREW, 1/2"NC x 2-1/2"
	70912333	3	WASHER, plain
43	74364131	6	WASHER, push rod cover capscREW (rubber)(Used prior to engine #16-4236)
	74376749	6	□ WASHER, push rod cover capscREW (Dynaseal)(Effective with engine #16-4236)
44	74371359	1	ADAPTER, oil level gauge
45	74506607	1	SEAL, oil level gauge
46	74379241	1	GAUGE ASSEMBLY, oil level (Includes item 44)



USAGE: Tractors prior to serial No. 4001 (HD844 series engine)

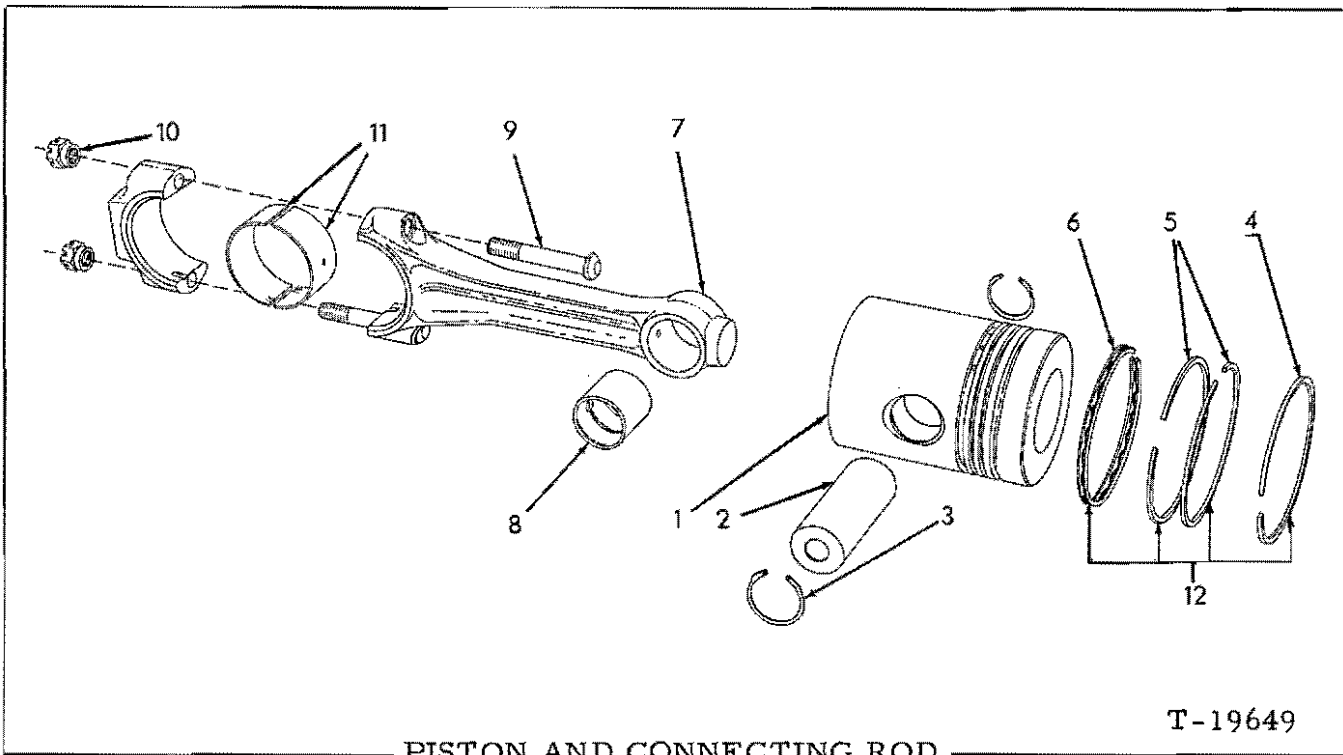
ITEM	PART NO.	QTY.	DESCRIPTION
1	74366656	6	□ PISTON
2	74369871	6	□ PIN, piston
3	74253643	12	□ RETAINER, piston pin
4	74368336	6	RING, compression (top groove)
5	74378376	12	RING, compression (2nd and 3rd grooves)
6	74379270	6	RING, oil control (4th groove)
7	74378377	6	RING, oil control (5th groove)
8	74371112	6	ROD ASSEMBLY, connecting (Includes items 9 thru 11)(Used prior to engine #68237. If complete set is required order 74374856)
	74374856	6	ROD ASSEMBLY, connecting (Includes items 9 thru 11)(Effective with engine #68237)
9	74377673	6	BUSHING, connecting rod
10	74360867	12	BOLT, connecting rod
11	74385760	12	NUT, connecting rod bolt
	70916245	12	PIN, cotter, 5/32" x 1-1/8"

See item 13

(Continued)

PISTON AND CONNECTING ROD (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
12	74378357	12	BEARING, connecting rod (standard size)
	74378358	12	BEARING, connecting rod (.010" undersize)
	74378359	12	BEARING, connecting rod (.020" undersize)
	74378360	12	BEARING, connecting rod (.030" undersize)
	74378361	12	BEARING, connecting rod (.040" undersize)
13	74379277	6	□RING SET (Consists of items 4 thru 7)



PISTON AND CONNECTING ROD

USAGE: Tractors serial No. 4001 and up (16000 series engine)

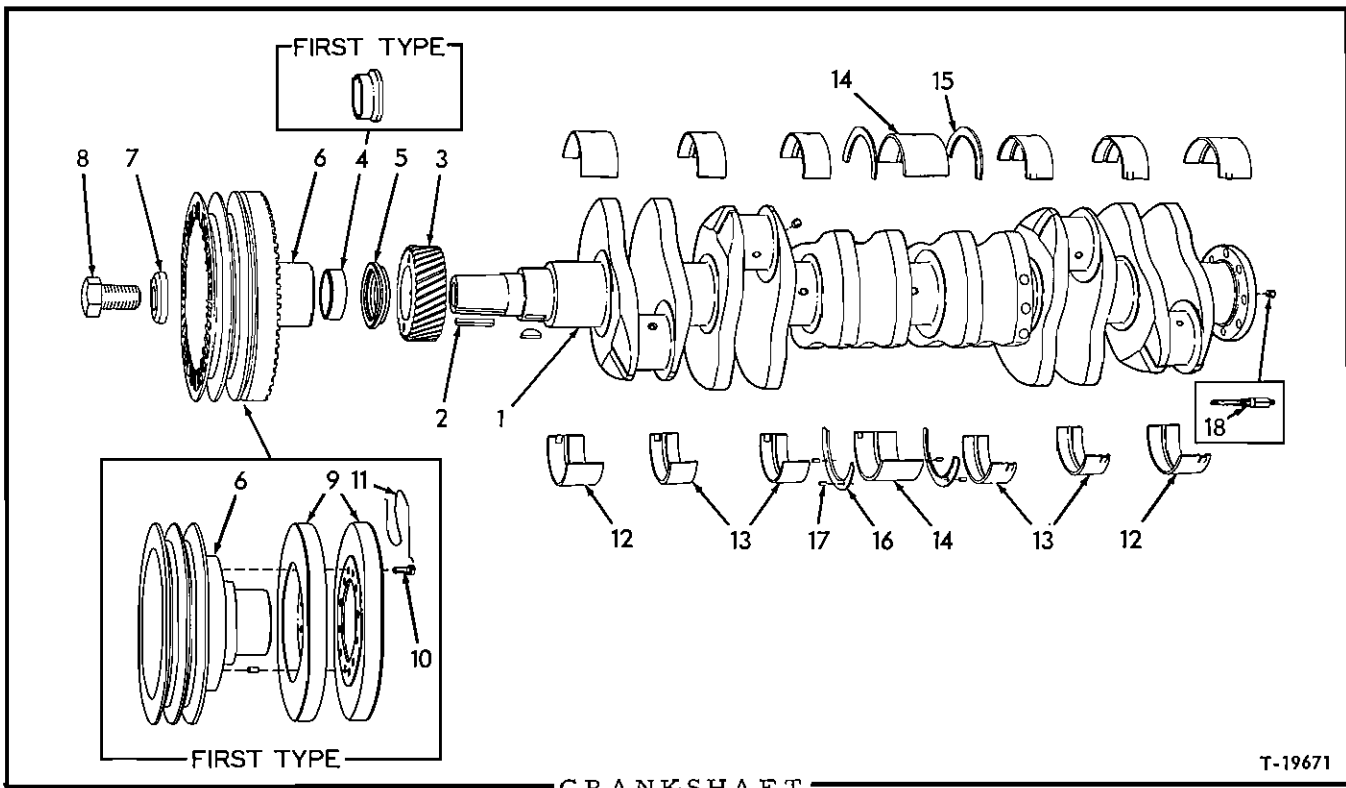
*Engines prior to serial No. 16-4652
 **Engines serial No. 16-4652 and up

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	74376615	6 -	PISTON (5-ring)(Used prior to engine #16-4253, if replacing complete set order Piston 74385734 and Ring Set 74388352)
	74379657	6 -	PISTON (4-ring, 7 lb.)(Effective with engine #16-4253, if replacing complete set order Piston 74385734 and Ring Set 74388359)
	74385734	- 6	□PISTON (4-ring, 6-1/2 lb.)
2	74385424	6 6	□PIN, piston
3	74253643	12 12	□RETAINER, piston pin <u>NOTE:</u> For items 4, 5, 6 (See ITEM 12)
4	74376623	6 -	RING, compression (top groove, tapered type) (Used prior to engine #16-4253)
	74379658	6 -	RING, compression (top groove, 1/8" wide) (Effective with engine #16-4253)
	-----	- 6	RING, compression (top groove, 1/8" wide, grooved face)(Order item 12)
5	74378376	12 -	RING, compression (2nd and 3rd grooves)
	-----	- 12	RING, compression (2nd and 3rd grooves, grooved face)(Order item 12)

(Continued)

PISTON AND CONNECTING ROD (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
6	74379270	6 -	RING, oil control (4th groove, 19 lb.)
	74389349	- 6	RING, oil control (4th groove, 26 lb.)
	74378377	6 -	RING, oil control (5th groove)(Used prior to engine #16-4253)
7	74389963	6 6	ROD ASSY., connecting (Includes items 8 thru 10)
8	74377673	6 6	BUSHING, connecting rod
9	74360867	12 12	BOLT, connecting rod
10	74390011	12 12	NUT, connecting rod bolt
11	74378357	12 12	BEARING, connecting rod (standard size)
	74378358	12 12	BEARING, connecting rod (.010" undersize)
	74378359	12 12	BEARING, connecting rod (.020" undersize)
	74378360	12 12	BEARING, connecting rod (.030" undersize)
	74378361	12 12	BEARING, connecting rod (.040" undersize)
12	74379276	6 -	RING SET, piston (Consists of items 4 thru 6) (Used prior to engine #16-4253)
	74379662	6 -	RING SET, piston (Consists of items 4 thru 6) (Effective with engine #16-4253)
	74388359	- 6	□RING SET, piston (Consists of items 4 thru 6)



CRANKSHAFT

T-19671

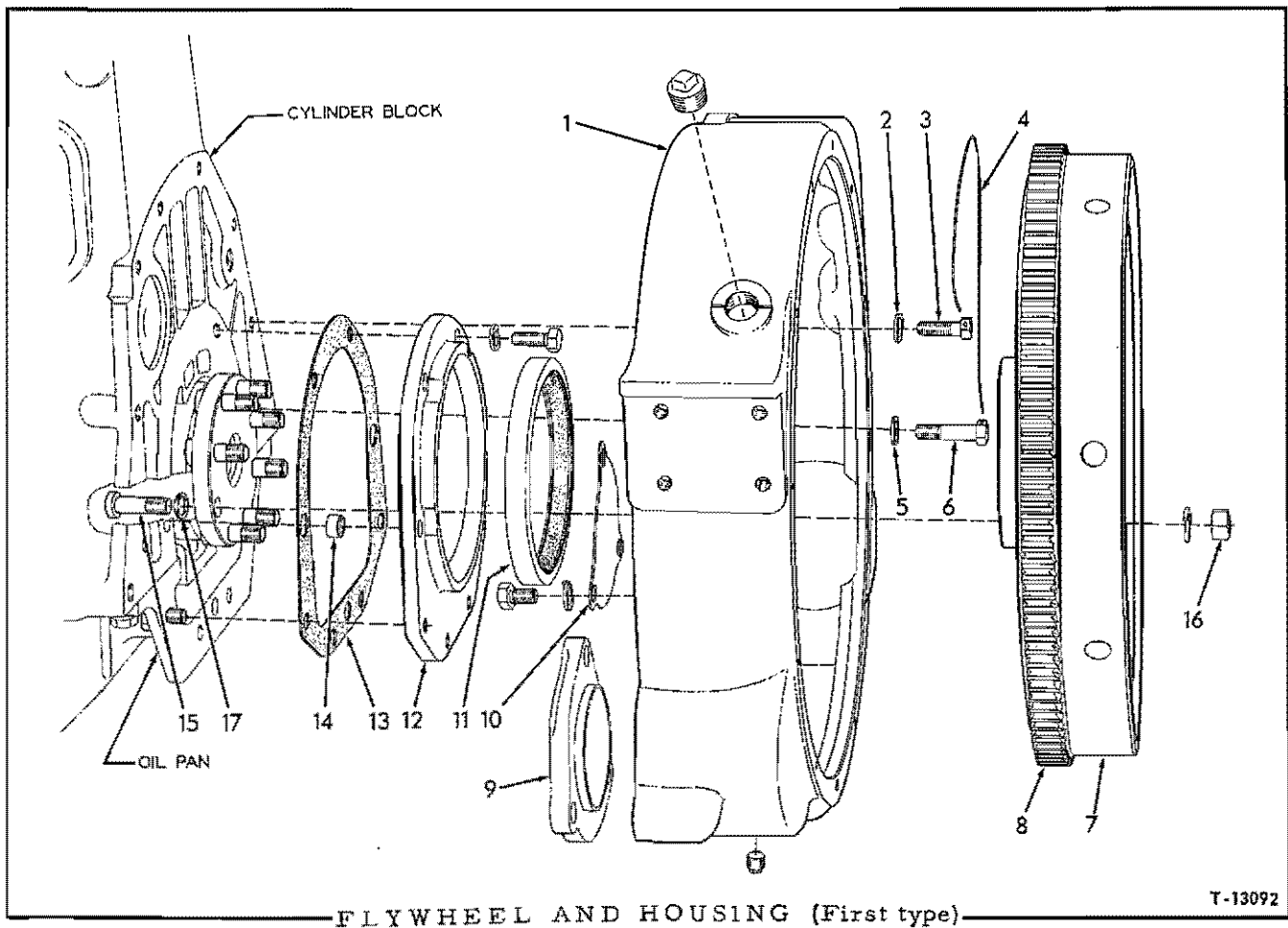
* Tractors prior to serial No. 4001 (HD844 series engine)
 ** Tractors serial No. 4001 and up (16000 series engine)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	74388532	1	-	CRANKSHAFT ASSEMBLY (Includes PLUGS indented below)
	74388508	-	1	CRANKSHAFT ASSEMBLY (Includes PLUGS indented below)
	70917673	6	6	PLUG, pipe, hex-socket, 1/8"NPT
	70907859	1	1	PLUG, pipe, hex-socket, 1/4"NPT (For units with torque converter only)
2	74362310	1	1	KEY, crankshaft pulley
3	74389052	1	1	GEAR, crankshaft
	70911021	1	1	KEY, #25 woodruff, 5/16" x 1-1/2"
4	74371472	1	-	SLEEVE, front oil seal (Used prior to engine #84055)
	74374390	1	1	SLEEVE, front oil seal (Used on engines #84055 thru #16-4703)
5	74374391	1	1	SPACER, front oil seal sleeve (Used on engines #84055 thru #16-4703)
6	74371599	1	-	PULLEY, crankshaft
	-----	-	1	PULLEY, crankshaft (Used prior to engine #16-4313. Order PULLEY 74385754)
6	74385754	-	1	PULLEY, crankshaft (Includes integral damper) (Used on engines #16-4313 thru #16-05388).
	74386781	-	1	PULLEY, crankshaft (Includes integral damper (Effective with engine #16-05389)
7	74371503	1	1	WASHER, crankshaft pulley capscrew

(Continued)

CRANKSHAFT (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
8	74347897	1	1	CAPSCREW, crankshaft pulley
9	74369655	1	2	DAMPER, vibration (Used prior to engine #16-4313)
	70917020	2	2	PIN, dowel, 7/16" x 1"
10	74365868	6	6	CAPSCREW, drilled-hd., 7/16"NF x 7/8"
11	74503600	3	3	WIRE, locking, #18 x 10"
12	74375962	4	4	BEARING, front and rear main (standard size)
	74375974	4	4	BEARING, front and rear main (.010" undersize)
	74375975	4	4	BEARING, front and rear main (.020" undersize)
	74375976	4	4	BEARING, front and rear main (.030" undersize)
	74375977	4	4	BEARING, front and rear main (.040" undersize)
13	74375963	8	8	BEARING, intermediate main (standard size)
	74375985	8	8	BEARING, intermediate main (.010" undersize)
	74375986	8	8	BEARING, intermediate main (.020" undersize)
	74375987	8	8	BEARING, intermediate main (.030" undersize)
	74375988	8	8	BEARING, intermediate main (.040" undersize)
14	74375960	2	2	BEARING , center main (standard size)
	74375980	2	2	BEARING , center main (.010" undersize)
	74375981	2	2	BEARING , center main (.020" undersize)
	74375982	2	2	BEARING , center main (.030" undersize)
	74375983	2	2	BEARING , center main (.040" undersize)
15	74366181	2	2	FLANGE, thrust, center main, upper (standard size)
	74374446	2	2	FLANGE, thrust, center main, upper (.005" oversize)
	74374447	2	2	FLANGE, thrust, center main, upper (.010" oversize)
	74374448	2	2	FLANGE, thrust, center main, upper (.015" oversize)
16	74366182	2	2	FLANGE, thrust, center main, lower (standard size)
	74374450	2	2	FLANGE, thrust, center main, lower (.005" oversize)
	74374451	2	2	FLANGE, thrust, center main, lower (.010" oversize)
	74374452	2	2	FLANGE, thrust, center main, lower (.015" oversize)
17	74250898	4	4	PIN, dowel, thrust flange
18	70079667	1	1	WICK ASSEMBLY, oiling, flywheel bearing (For units without torque converter)



USAGE: Engines prior to serial No. 84762 (HD844 series engine)

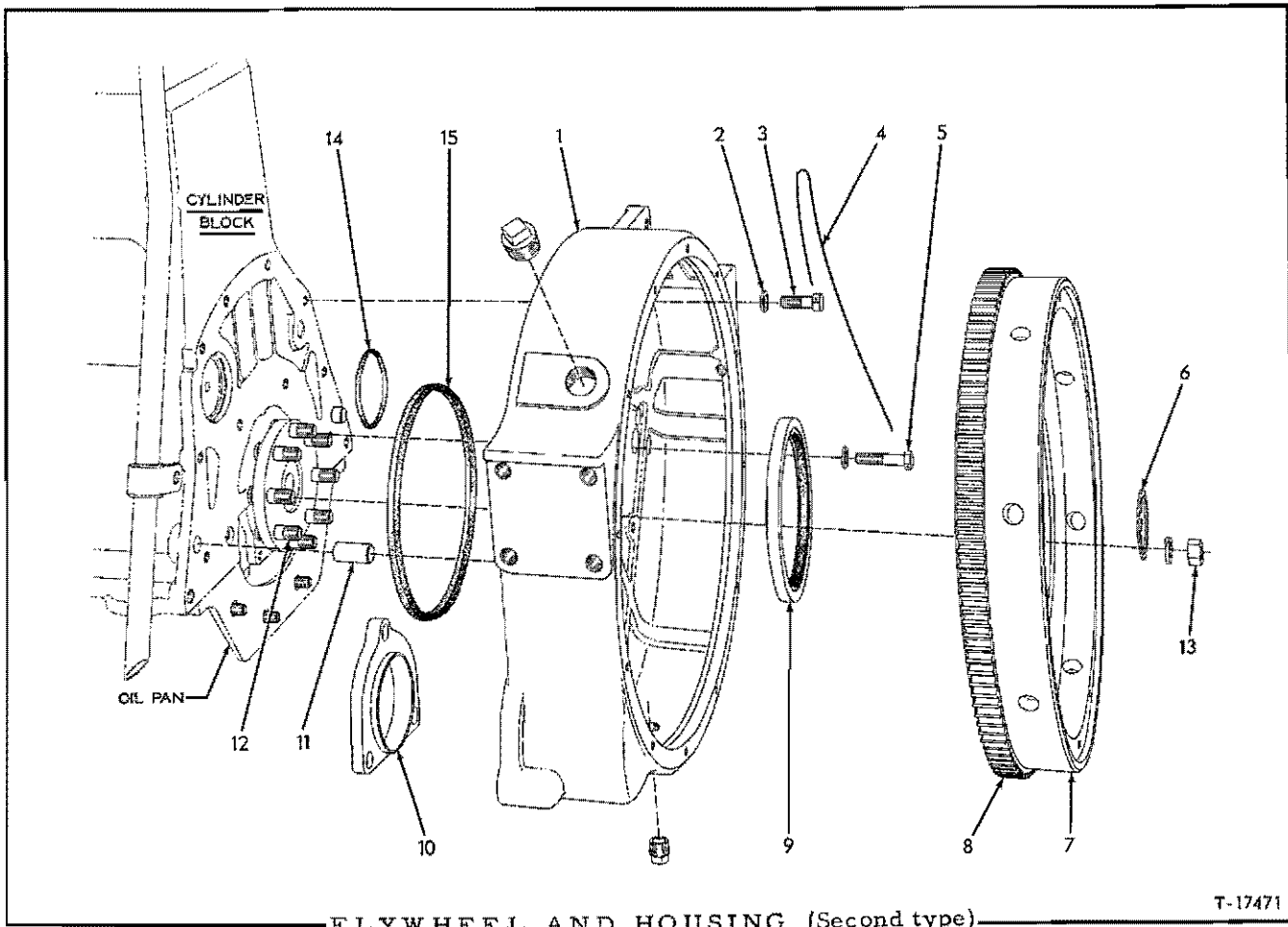
* Tractors without torque converter
 ** Tractors with torque converter

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	74365611	1	1	HOUSING, flywheel (Used prior to engine #67395; including #67766 thru #68074)
	74372552	1	1	HOUSING, flywheel (Effective with engine #67395; excluding #67766 thru #68074)
	70912768	1	1	PLUG, pipe, 1"NPT
	70901653	1	1	PLUG, pipe, 3/8"NPT (drain)
2	74371107	8	8	WASHER, plain, flywheel housing capscrew
3	74365140	8	8	CAPSCREW, flywheel housing
4	74503600	2	2	WIRE, locking, lower capscrews (10" long)
	74364930	3	3	WIRE, locking, upper capscrews (13" long)
5	74365862	2	2	WASHER, flywheel housing dowel bolt

(Continued)

FLYWHEEL AND HOUSING (First type)(Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
6	74365837	2	2	BOLT, dowel, flywheel housing
7	-----	1	-	FLYWHEEL ASSEMBLY (Order FLYWHEEL ASSEMBLY 74387171 and Snap Ring 74253317)
	74372630	-	1	FLYWHEEL ASSEMBLY (Used prior to engine #67395; including #67766 thru #68074)
	74372800	-	1	FLYWHEEL ASSEMBLY (Effective with engine #67395; excluding #67766 thru #68074)
<u>NOTE:</u> Each Flywheel Assembly listed above includes item 8				
8	74360457	1	1	GEAR, ring
9	-----	1	1	ADAPTOR, starter (See STARTING MOTOR)
10	74303737	1	1	COVER, flywheel housing
	70919223	3	3	CAPSCREW, 5/8"NC x 5/8"
	70904209	3	3	LOCKWASHER, 5/8"
11	74390171	1	1	SEAL, oil, rear crankcase
12	74362641	1	1	HOUSING, crankcase rear oil seal
	70903638	4	4	CAPSCREW, 1/2"NC x 1-1/4"
	70916311	4	4	CAPSCREW, 1/2"NC x 1-1/8"
	70904208	8	8	LOCKWASHER, 1/2"
13	74660429	1	1	□GASKET, rear oil seal housing
14	74303038	2	2	DOWEL, rear oil seal housing
15	74389201	8	8	BOLT, flywheel
	70904209	8	8	LOCKWASHER, 5/8"
16	74388204	8	8	NUT, 5/8"NF
17	-----	8	8	RING, sealing, flywheel bolt (Discontinued since is not necessary)



USAGE: Effective with engine serial No. 84762 but later discontinued with tractor serial No. 4001 (HD844 series engine)

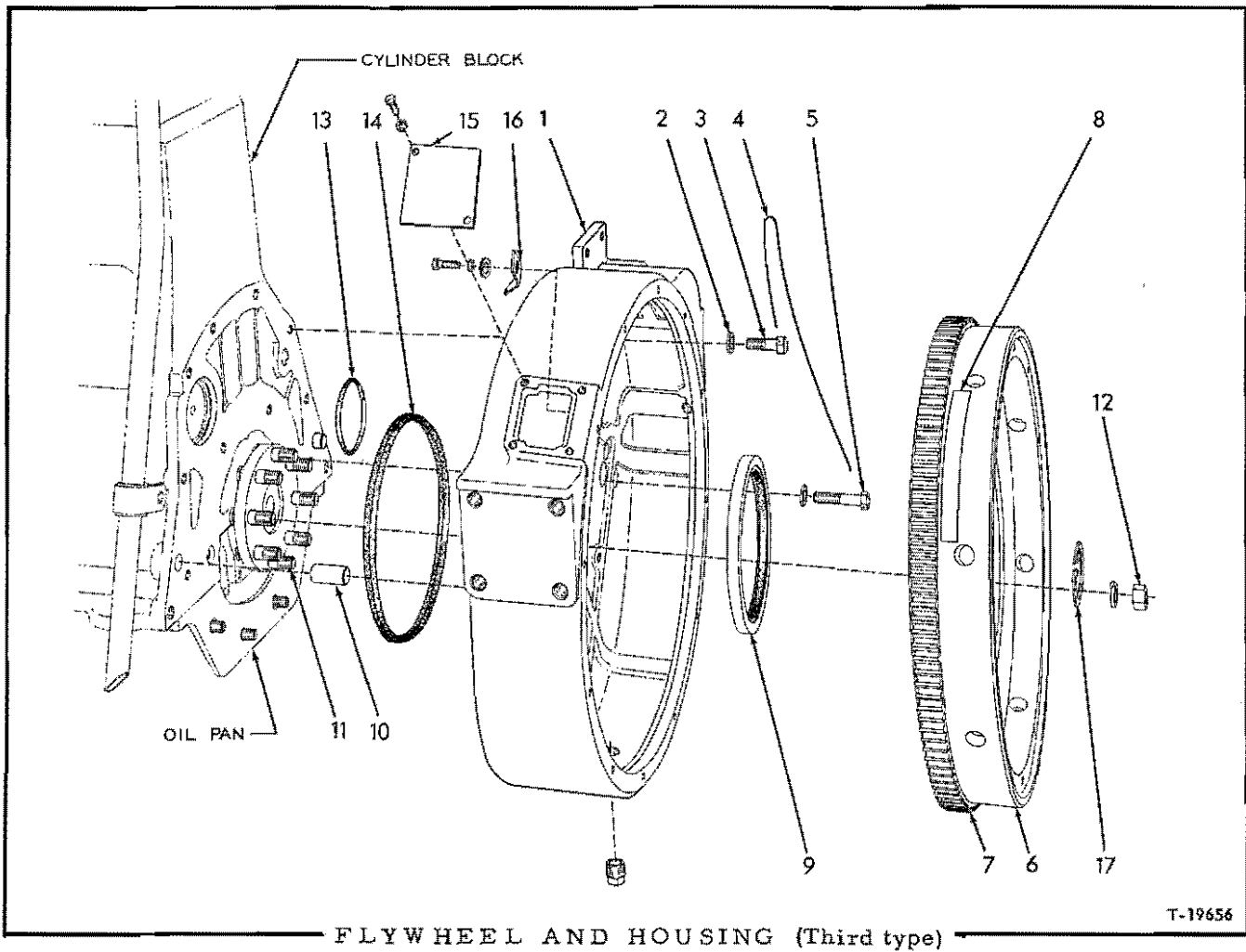
* Tractors without torque converter
 ** Tractors with torque converter

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	74373714	1	1	HOUSING, flywheel
	70912725	1	1	PLUG, pipe, 1/2"NPT (drain)
	70912768	1	1	PLUG, pipe, 1"NPT
	70916311	4	4	CAPSCREW, 1/2"NC x 1-1/8"
	70904208	4	4	LOCKWASHER, 1/2"
2	74371107	10	10	WASHER, plain, flywheel housing capscrew
3	74365140	8	8	CAPSCREW, flywheel housing
4	74503600	2	2	WIRE, locking, lower capscrews (10" long)
	74364930	3	3	WIRE, locking, upper capscrews (13" long)
5	74375540	2	2	CAPSCREW, flywheel housing (1/2"NC x 2-1/4")
6	74253317	1	-	RING, snap, bearing retaining (Effective with engine #84844)

(Continued)

FLYWHEEL AND HOUSING (Second type)(Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
7	74387171	1 -	FLYWHEEL ASSEMBLY (Includes item 8)(If for engines prior to #84844 also order item 6)
	74372800	- 1	FLYWHEEL ASSEMBLY (Includes item 8)
8	74360457	1 1	GEAR, ring
9	74390171	1 1	SEAL, oil, rear crankcase
10	-----	1 1	ADAPTOR, starter (See STARTING MOTOR)
11	74373716	2 2	DOWEL, flywheel housing
12	74365926	8 8	BOLT, flywheel
	70904209	8 8	LOCKWASHER, 5/8"
13	74374488	8 8	NUT, 5/8"NF
14	74255904	1 1	ORING , flywheel housing to crankcase (small)
15	74336897	1 1	ORING, sealing, flywheel housing to crankcase (large)



USAGE: Tractors serial No. 4001 and up (16000 series engine)

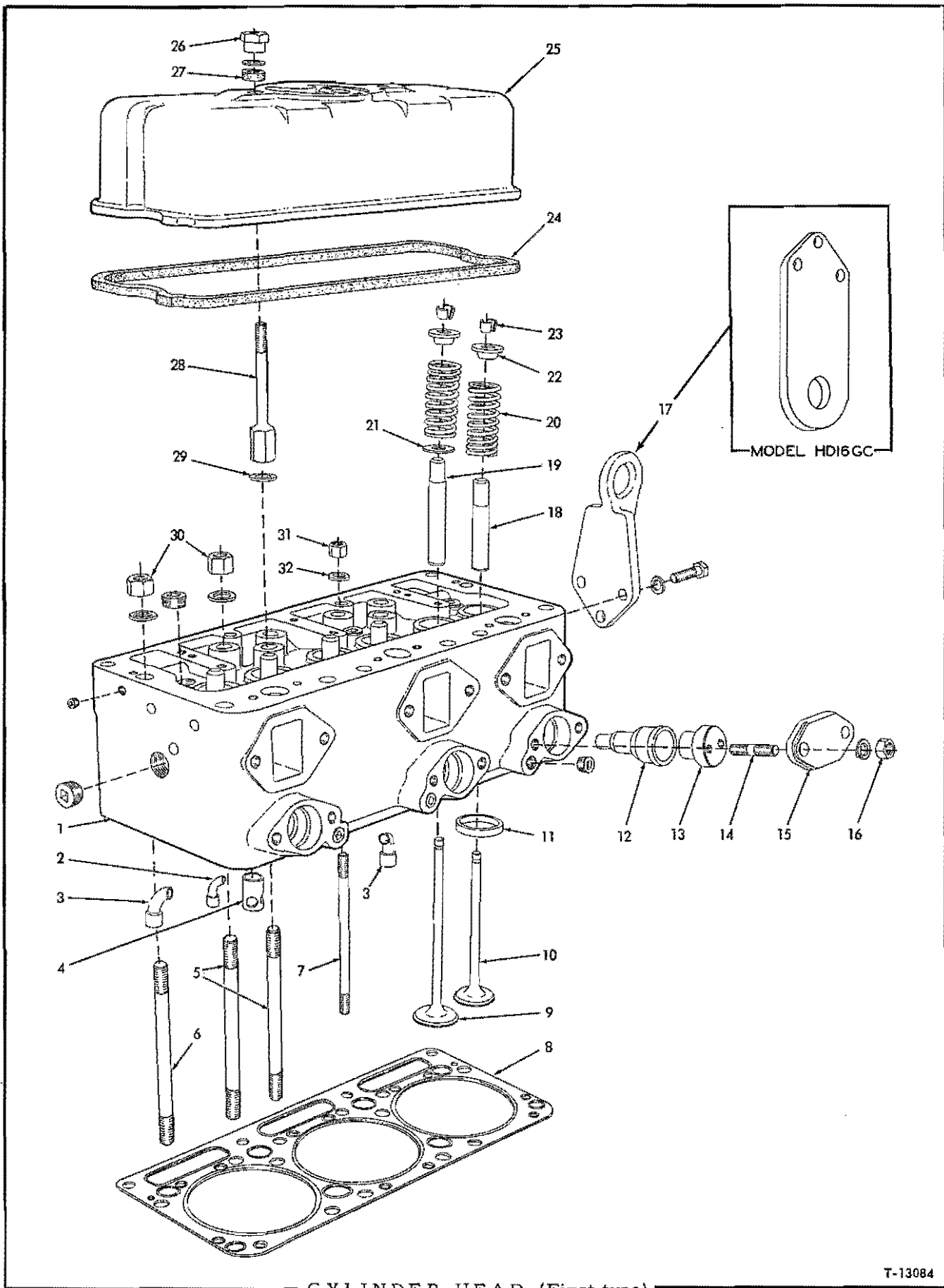
* Tractors without torque converter
 ** Tractors with torque converter

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	-----	1 1	HOUSING, flywheel (Used prior to engine #16-3866)(Order HOUSING 74378981 and items 15 and 16)
	70912768	1 1	PLUG, pipe, 1"NPT (timing hole)
	74378981	1 1	HOUSING, flywheel (Effective with engine #16-3866)
	70916311	4 4	CAPSCREW, 1/2"NC x 1-1/8"
	70904208	4 4	LOCKWASHER, 1/2"
	70912725	1 1	PLUG, pipe, 1/2"NPT (drain)
2	74371107	10 10	WASHER, plain, flywheel housing capscrew
3	74365140	8 8	CAPSCREW, flywheel housing
4	74503600	2 2	WIRE, locking, lower capscrews (#18 x 10")
	74364930	3 3	WIRE, locking, upper capscrews (#18 x 13")
5	74375540	2 2	CAPSCREW, flywheel housing (1/2"NC x 2-1/4")

(Continued)

FLYWHEEL AND HOUSING (Third type)(Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
6	74387171	1	-	FLYWHEEL ASSEMBLY (Includes item 7)
	74387172	-	1	FLYWHEEL ASSEMBLY (Includes items 7 and 8)
7	74360457	1	1	GEAR, ring
8	74378408	1	1	STRIP, timing marking (applied to flywheel rim)(Used prior to engine #16-4926)
9	74390171	1	1	SEAL, oil, rear crankcase
10	74373716	2	2	DOWEL, flywheel housing
11	74389201	8	8	BOLT, flywheel
12	70904209	8	8	LOCKWASHER, 5/8"
	74374488	8	8	NUT, 5/8"NF
13	74255904	1	1 □	RING, flywheel housing to crankcase (small)
14	74336897	1	1 □	RING, sealing, flywheel housing to crankcase (large)
15	74378409	1	1	COVER, timing hole (Effective with engine #16-3866)
	70905660	2	2	CAPSCREW, 5/16"NC x 1/2"
	70904205	2	2	LOCKWASHER, 5/16"
16	74387733	1	1	POINTER, timing (Effective with engine #16-3866)
	70903626	1	1	CAPSCREW, 5/16"NC x 3/4"
	70904205	1	1	LOCKWASHER, 5/16"
	70910335	1	1	WASHER, plain, SAE std., 5/16"
17	74253317	1	-	RING, snap, pilot bearing retaining



CYLINDER HEAD (First type)

T-13084

CYLINDER HEAD

USAGE: Tractors prior to serial No. 4001 (HD844 series engine)

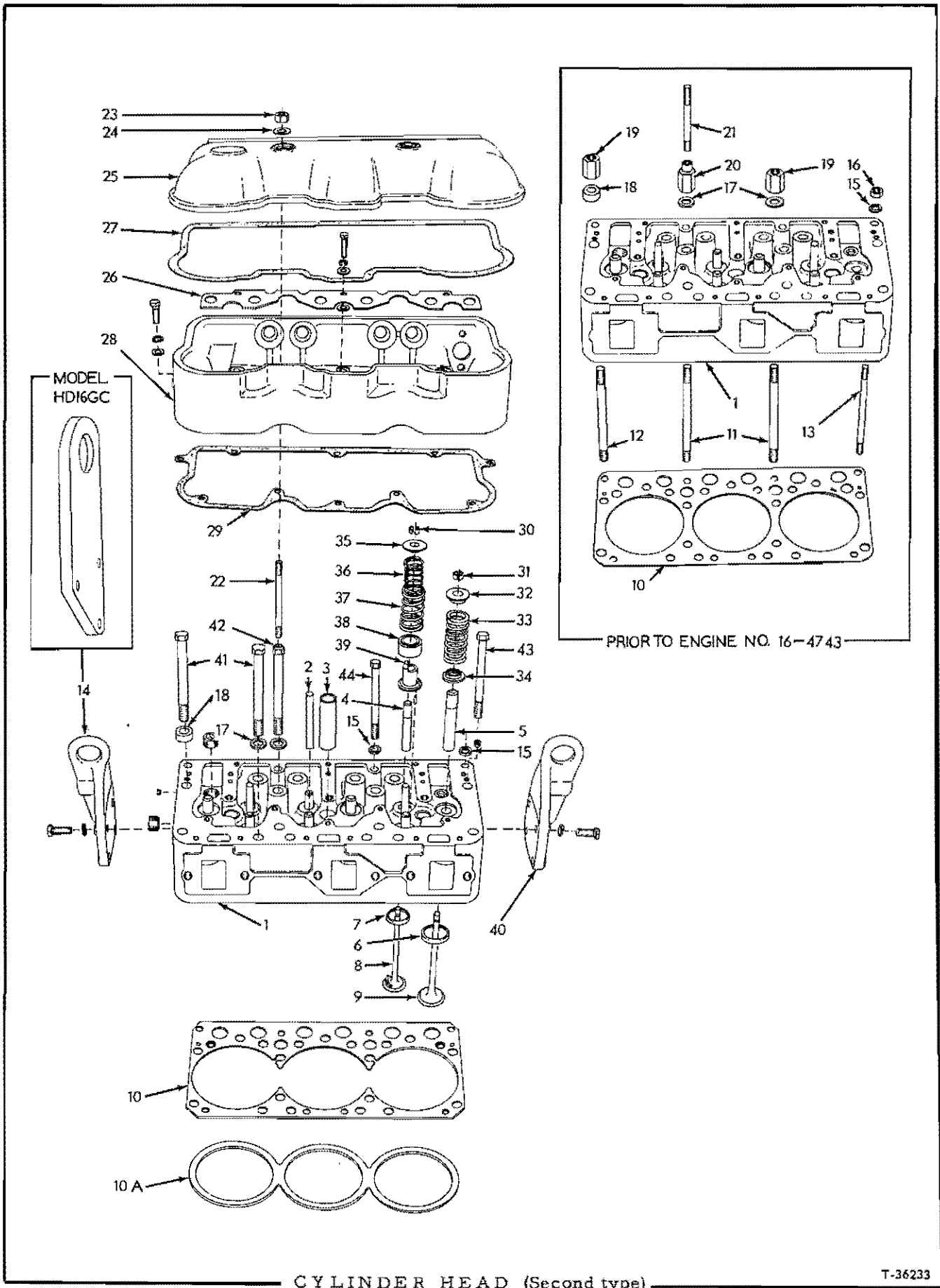
ITEM	PART NO.	QTY.	DESCRIPTION
1	74385752	2	HEAD ASSEMBLY, cylinder (Includes items 2, 3, 4, 11, 18, 19 and PLUGS indented below)
	70917673	8	PLUG, pipe, hex-socket, 1/8"NPT
	70918887	6	PLUG, pipe, ctsk-hd., 3/8"NPT
	70904224	10	PLUG, pipe, ctsk-hd., 3/4"NPT
2	74364421	6	TUBE, water (small)
3	74366814	2	TUBE, water, center position (large)
	74377078	4	TUBE, water, end position (large)
4	74365851	2	DISTRIBUTOR, water
5	74372262	24	STUD, cylinder head (5/8" diam.)
6	74373491	4	STUD, pilot, cylinder head (5/8" diam. Has "S" marking on end)
7	74372725	8	STUD, cylinder head (1/2" diam.)
8	74371054	2	□ GASKET, cylinder head
9	74364386	6	VALVE, intake
10	74364387	6	VALVE, exhaust
11	74364385	6	INSERT, exhaust valve seat (standard size)
	74385360	6	INSERT, exhaust valve seat (.005" oversize)
12	74375931	6	CELL ASSEMBLY, energy (Includes orifice and pin. Serviced only as a unit)
13	74364390	6	PLUG, energy cell (Used prior to engine #16-2651)
	74374959	6	PLUG, energy cell (Effective with engine #16-2651)
14	74371114	12	STUD, energy cell clamp
15	74365787	6	CLAMP, energy cell
16	74253348	12	NUT, energy cell stud (1/2"NF)
	70904208	12	LOCKWASHER, 1/2"
17	74371390	2	EYE, engine lifting (1 less used on Model HD16GC)
	70087686	1	PLATE, engine lifting, rear (For Model HD16GC only)
	70903639	6	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	6	LOCKWASHER, 1/2"
18	74364378	6	GUIDE, exhaust valve
19	74364379	6	GUIDE, intake valve
20	74366551	12	SPRING, valve

(Continued)

CYLINDER HEAD (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
21	74375790	6	SPACER, intake valve spring (Effective with engine #16-2748)
22	74366758	12	RETAINER, valve spring
23	74376508	24	LOCK, valve spring retainer
24	74375720	2	□ GASKET, rocker cover
25	74371441	2	COVER, rocker (Used prior to engine #16-2914, excluding #16-2792 thru #16-2811)
	74376405	2	COVER, rocker (Effective with engine #16-2914, including #16-2792 thru #16-2811)
26	74364130	4	NUT, rocker cover (Used prior to engine #16-3119)
	74375937	4	NUT, rocker cover (Nylok)(Effective with engine #16-3119)
	70906985	4	WASHER, plain, U.S. std., 7/16"
27	74364131	4	□ WASHER, sealing, rocker cover nut (Used prior to engine #16-3119)
	74375938	4	WASHER, rocker cover nut (Dynaseal)(Effective with engine #16-3119)
28	74364465	4	EXTENSION, cylinder head stud
29	74389910	28	WASHER, cylinder head nut (For 5/8" stud)
30	74388202	24	NUT, cylinder head stud (5/8"NF)
31	74388205	8	NUT, cylinder head stud (1/2"NF)
32	74372864	8	WASHER, cylinder head nut (For 1/2" stud)

MEMO



CYLINDER HEAD (Second type)

T-36233

CYLINDER HEAD

USAGE: Tractors serial No. 4001 and up (16000 series engine)

* Engines prior to serial No. 16-4743
 ** Engines serial No. 16-4743 and up

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	74387503	2	2	HEAD ASSEMBLY, cylinder (Includes items 2 thru 7 and PLUGS in- dented below)
	70917673	8	8	PLUG, pipe, hex-socket, 1/8"NPT
	70904224	10	10	PLUG, pipe, ctsk-hd., 3/4"NPT
2	74377005	6	6	PIN, guide, intake valve bridge
3	74376484	6	6	SLEEVE, injection nozzle
4	74385301	12	12	GUIDE, intake valve
5	74385355	6	6	GUIDE, exhaust valve
6	74387414	6	6	INSERT, exhaust valve seat (standard)(Original equipment)
	74387584	6	6	INSERT, exhaust valve seat (standard)(For service replacement heads only)
	74387415	6	6	INSERT, exhaust valve seat (.005" oversize)(Original equipment)
	74387585	6	6	INSERT, exhaust valve seat (.005" oversize)(For service replace- ment heads only)
7	74387586	12	12	INSERT, intake valve seat (standard)
	4385667	12	12	INSERT, intake valve seat (.005" oversize)(Original equipment)
	74387587	12	12	INSERT, intake valve seat (.005" oversize)(For service replacement heads only)
8	74378897	12	12	VALVE, intake
9	74376486	6	6	VALVE, exhaust
10	-----	2	-	GASKET, cylinder head (Used prior to engine #16-4111. Order GASKET KIT 74386740)
	-----	2	-	GASKET, cylinder head (Engines #16-4111 thru #16-4723. See page 46 for details. Order GASKET KIT 74386740)
	74386370	2	2	□ GASKET, cylinder head (oil and water)(Effective with engine #16-4724)
10A	74390043	2	2	□ GASKET, cylinder head (compression)
11	74376642	28	-	STUD, cylinder head (5/8" diam.)
12	74376643	4	-	STUD, pilot, cylinder head (.625 diam. Has "S" marking on end)
13	74376480	8	-	STUD, cylinder head (1/2" diam.)
14	74376893	1	1	EYE, engine lifting, rear (Models HD16A, AC, D, DC, FC)
	70097686	1	1	PLATE, engine lifting (Model HD16GC only)
	70915987	3	3	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	3	3	LOCKWASHER, 1/2"
15	74372864	8	8	WASHER, cylinder head nut (1/2" hole)

(Continued)

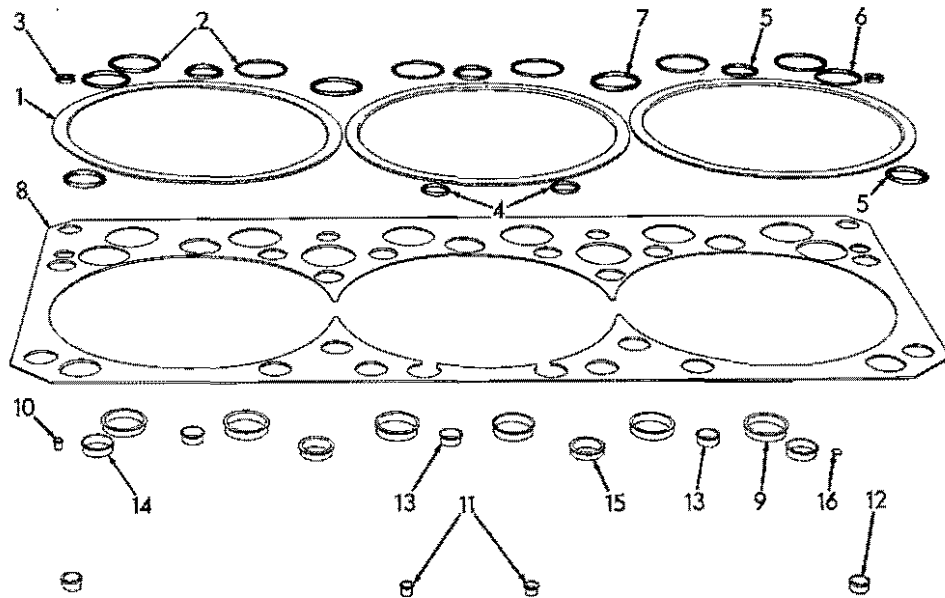
CYLINDER HEAD (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
16	74388205	8 -	NUT, cylinder head stud (1/2"NF) (Used prior to engine #16-4111)
	74379740	8 -	NUT, cylinder head stud (1/2"NF, Nylok) (Effective with engine #16-4111)
17	74389910	28 28	WASHER, plain (1/8" thick, 5/8" hole)
18	74376526	4 4	WASHER, plain (9/16" thick, 5/8" hole)
19	74373042	28 -	NUT, cylinder head stud (5/8"NF) (Used prior to engine #16-4111)
	74379744	28 -	NUT, cylinder head stud (5/8"NF, Nylok) (Effective with engine #16-4111)
20	74377540	4 -	NUT, cylinder head stud (5/8"NF and 7/16"NF) (Used prior to engine #16-4111)
	74379741	4 -	NUT, cylinder head stud (5/8"NF and 7/16"NF, Nylok) (Effective with engine #16-4111)
21	74377542	4 -	STUD, rocker cover (7/16"NF x 4-1/2")
22	74385674	- 4	STUD, rocker cover (7/16"NF x 5-7/8")
23	74375937	4 4	NUT, rocker cover
24	74376749	4 4	□WASHER, sealing, rocker cover nut
25	74376619	2 2	COVER, rocker, upper section
26	74379074	2 2	PLATE, guide, push rod (Effective with engine #16-3647)
27	74379026	2 2	□GASKET, rocker cover
28	74378265	1 1	COVER, lower section, front
	74378266	1 1	COVER, lower section, rear
	70910245	6 6	CAPSCREW, 3/8"NC x 1-3/8" (Used with item 26 only)
	70919224	20 20	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	20 20	LOCKWASHER, 3/8"
	70913544	20 20	WASHER, plain
29	74376578	2 2	□GASKET, cylinder head lower cover
30	74376497	24 24	LOCK, intake valve spring retainer
31	74376508	12 12	LOCK, exhaust valve spring retainer
32	74366758	6 6	RETAINER, exhaust valve spring
33	74366551	6 6	SPRING, exhaust valve
34	74385299	6 6	SPACER, exhaust valve spring (Effective with engine #16-4182)

(Continued)

CYLINDER HEAD (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
35	74386497	12	12	RETAINER, intake valve spring
36	74376545	12	12	SPRING, inner, intake valve
37	74376546	12	12	SPRING, outer, intake valve
38	74377909	12	12	SPACER, indexing guide
39	74379320	12	12	GUIDE, indexing, intake valve
	70917560	12	12	PIN, dowel, 3/16" x 3/8"
40	74376893	1	1	EYE, engine lifting, front
	70915987	3	3	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	3	3	LOCKWASHER, 1/2"
41	74388520	-	28	CAPSCREW, cylinder head (5/8"NC x 6-15/16" long)
42	74388525	-	4	CAPSCREW, cylinder head (5/8"NC x 6-15/16", special head)
43	74385496	-	6	CAPSCREW, cylinder head (1/2"NC x 6-5/8")
44	74385497	-	2	CAPSCREW, cylinder head (1/2"NC x 6")



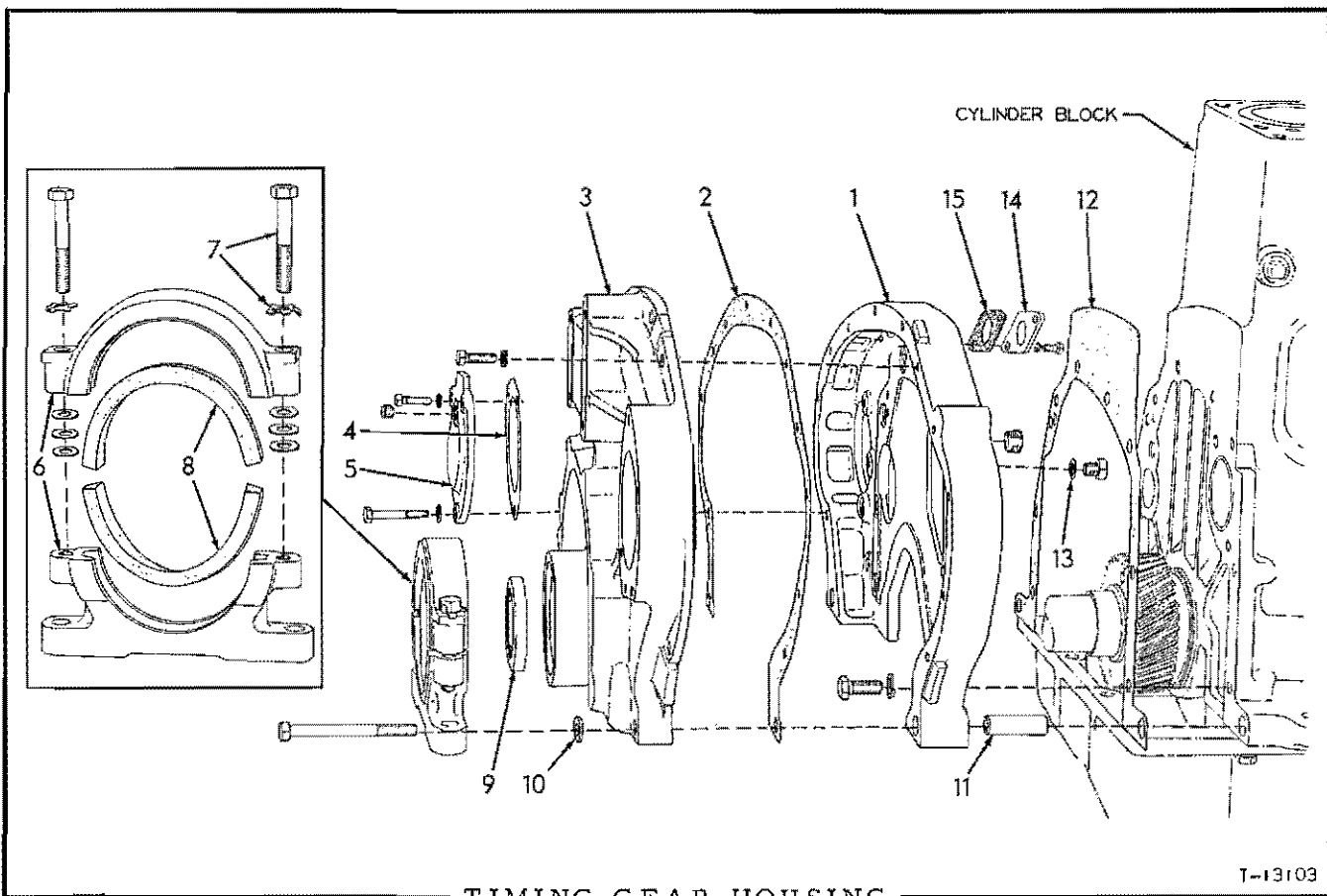
CYLINDER HEAD GASKET

T-27401

USAGE: Engines serial No. 16-4111 thru 16-4723. Not serviced. Order GASKET KIT 74386740

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	6	GASKET, cylinder sleeve
2	-----	12	O-RING, push rod holes (1-1/8" I.D., yellow dot)
3	-----	4	RING, oil holes (3/8" I.D.)
4	-----	4	O-RING, water holes (7/16" I.D., red dot)
5	-----	10	O-RING, water holes (11/16" I.D., black dot)
6	-----	4	O-RING, water holes (15/16" I.D., white dot)
7	-----	4	O-RING, water holes (1" I.D., green dot)
8	-----	2	PLATE, gasket locating
9	-----	12	FERRULE, push rod holes (1-1/8" O.D., yellow dot)
10	-----	2	FERRULE, oil holes (1/4" O.D.)
11	-----	4	FERRULE, water holes (5/16" O.D., red dot)
12	-----	4	FERRULE, water holes (15/32" O.D., blue dot)
13	-----	6	FERRULE, water holes (19/32" O.D., black dot)
14	-----	4	FERRULE, water holes (13/16" O.D., white dot)
15	-----	4	FERRULE, water holes (29/32" O.D., green dot)
16	-----	2	FERRULE, gasket locating (disc type, 1/4" diam. For blind oil hole)

MEMO



TIMING GEAR HOUSING

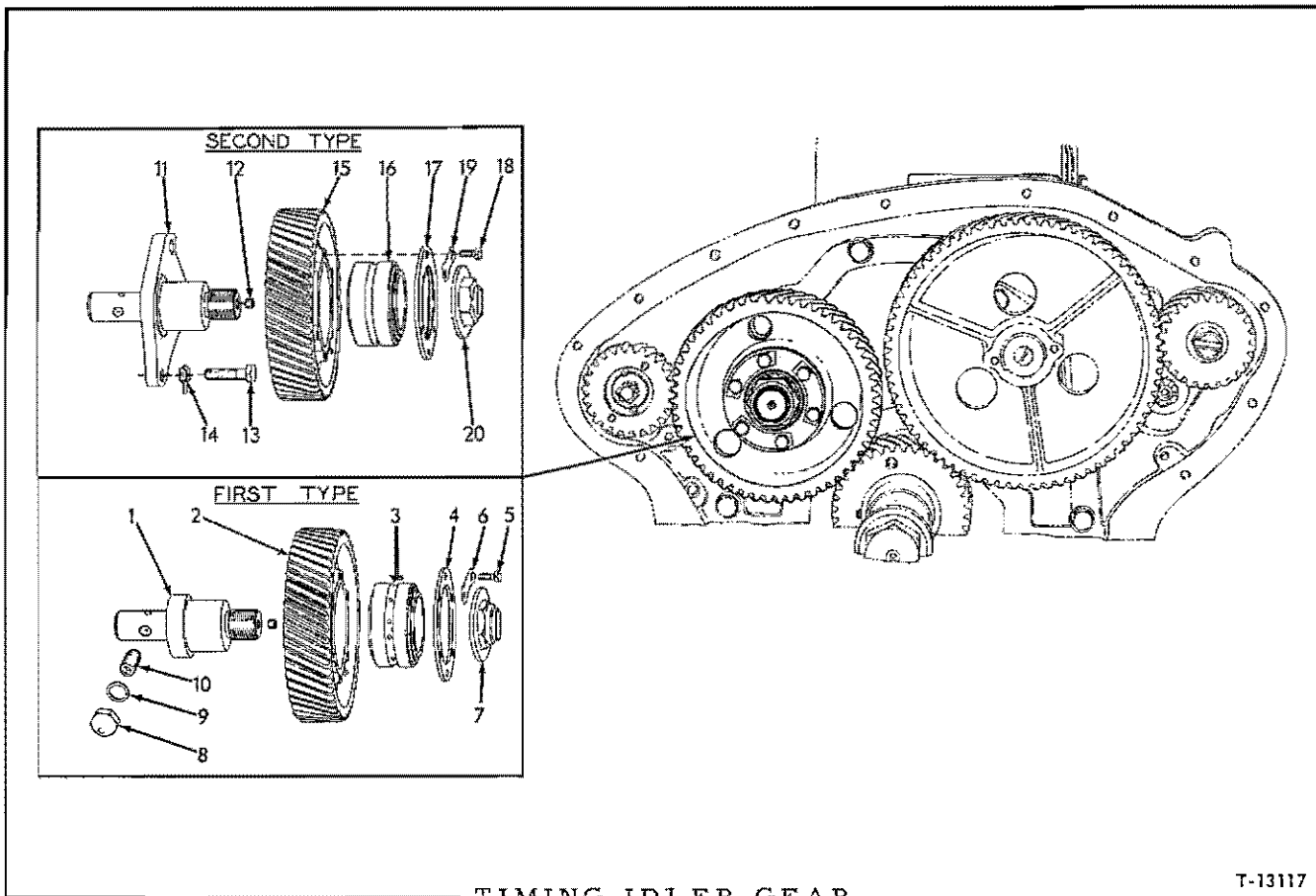
T-13103

ITEM	PART NO.	QTY.	DESCRIPTION
1	74376608	1	HOUSING (If for engines prior to #16-2651 also order items 14 and 15)
	70908944	1	PLUG, pipe, hex-socket, 1/2"NPT
	70907856	1	PLUG, pipe, hex-socket, 3/8"NPT (Used prior to engine #16-2651)
	70916311	8	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	8	LOCKWASHER, 1/2"
2	74376609	1	□ GASKET, gear housing cover
3	74387723	1	COVER, timing gear housing
	70916321	2	CAPSCREW, 1/2"NC x 4-1/2"
	70919224	7	CAPSCREW, 3/8"NC x 1-1/8"
	70916274	2	CAPSCREW, 3/8"NC x 2-1/4" (Used prior to engine #16-05389)
	70904206	9	LOCKWASHER, 3/8"
4	74361740	1	□ GASKET, water pump gear cover (Used prior to engine #16-05389)
5	74374588	1	COVER, water pump gear (Used prior to engine #16-05389)
	70907070	1	PLUG, pipe, ctsk-hd., 1/4"NPT
	70916271	1	CAPSCREW, 3/8"NC x 1"
	70904206	1	LOCKWASHER, 3/8"
6	74393564	1	BRACKET, engine mounting (Includes cap) (When making first replacement also order two each CAPSCREWS 70922510, CAPSCREWS 70070935 and LOCK 70070836)
7	74254891	2	CAPSCREW, 1/2"NC x 2-1/2"
	74252682	2	LOCKWASHER
	70916009	10	WASHER, plain (1/32" thick. Use as required)

(Continued)

TIMING GEAR HOUSING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	74364864	2	LINER, engine mounting bracket (rubber) (Used prior to engine #16-3818)
	74336491	2	LINER, engine mounting bracket (nylon) (Effective with engine #16-3818)
9	74253838	1	SEAL, oil, crankshaft (Used prior to engine #16-4704)
	74027416	1	SEAL, oil, crankshaft (Effective with engine #16-4704)
10	74371445	2	WASHER, plain, housing cover capscREW (1/2" hole)
11	74371444	2	DOWEL, hollow, gear housing
12	74660492	1	□ GASKET, gear housing
13	74119937	1	GASKET, plugging capscREW
	70919229	1	CAPSCREW, 1/2" NC x 1/2"
14	74375501	1	COVER, closure, gear housing (Effective with engine #16-2651)
	70915408	2	CAPSCREW, 3/8" NC x 3/4"
	70904206	2	LOCKWASHER, 3/8"
15	74371027	1	□ GASKET, closure cover (Effective with engine #16-2651)



TIMING IDLER GEAR

T-13117

USAGE: Engines prior to serial No. 16-05389

* HD844 series engines prior to serial No. 81868

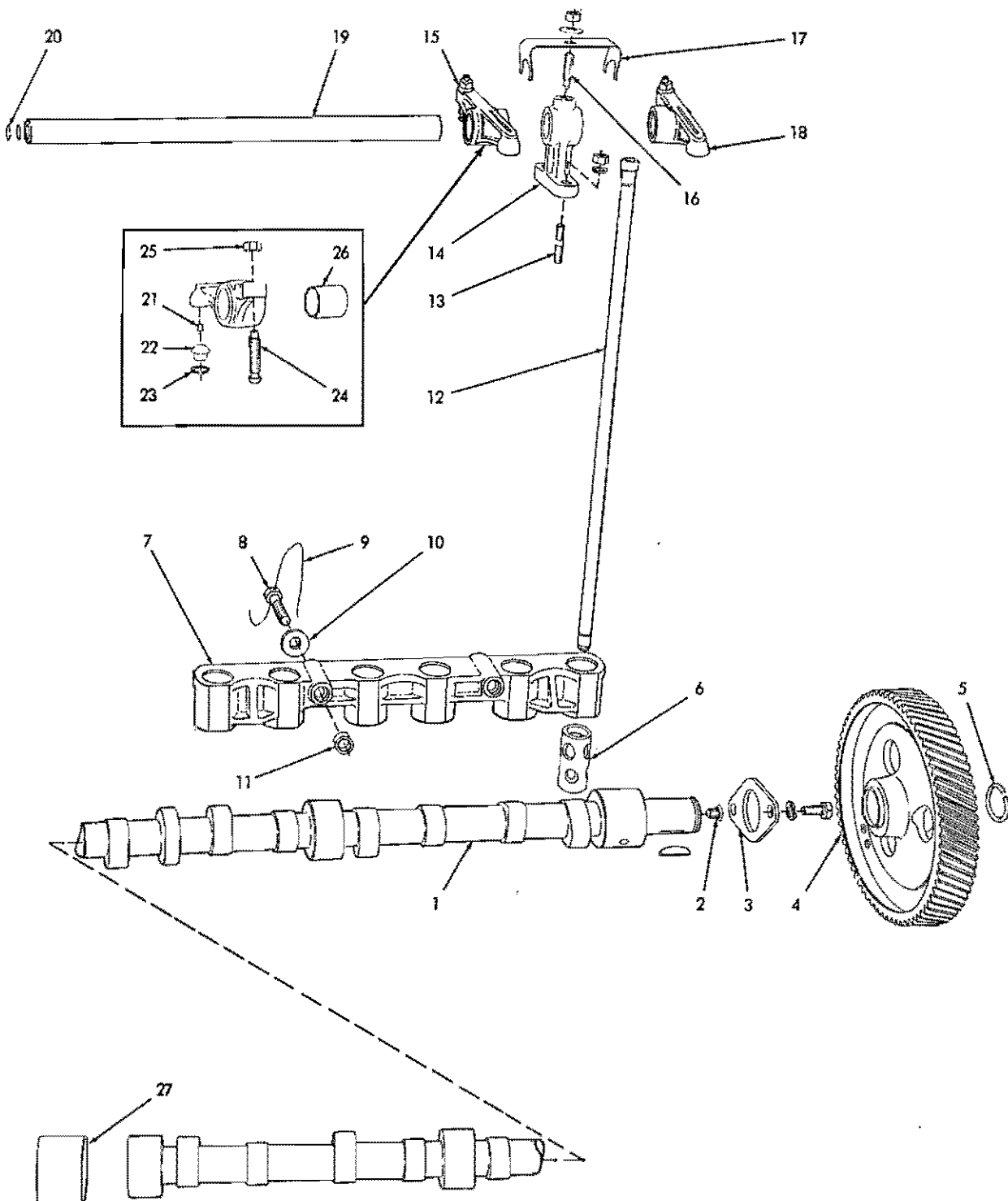
** 16000 series engines; also HD844 series engines serial No. 81868 and up

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	-----	1	-	SHAFT, idler gear (No oil passage)(Used prior to engine #80912. Replace with SHAFT ASSEMBLY 74373326, GEAR ASSY. 74375919 and NUT 74373330)
	74373326	1	-	SHAFT ASSEMBLY, idler gear (Standard size. Includes PLUG 70910231)(Effective with engine #80912)
	70910231	1	-	PLUG, pipe, hex-socket, 1/8"NPT
	74375368	1	-	SHAFT ASSEMBLY, idler gear (1/8" oversize. Hole in Cylinder Block must be rebored to permit installing)
2	-----	1	-	GEAR ASSEMBLY, idler (Includes items 3 thru 6)(Used prior to engine #80912. Replace with GEAR ASSEMBLY 74375919, SHAFT ASSY. 74373326 and NUT 74373330)
	74375919	1	-	GEAR ASSEMBLY, idler (Includes items 3 thru 6)(Effective with engine #80912)
3	-----	1	-	BEARING, roller, idler gear (2-1/2"O.D.)(Used prior to engine #80912. Not serviced separately)
	-----	1	-	BEARING, roller, idler gear (3-5/8"O.D.)(Effective with engine #80912. Not serviced separately)

(Continued)

TIMING IDLER GEAR (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
4	74373624	1	-	RETAINER, idler gear bearing
5	70916277	6	-	CAPSCREW, 5/16"NC x 5/8"
6	74373332	3	-	PLATE, capscrew locking
7	74371408	1	-	NUT, idler gear shaft (hex-type)(Used prior to engine #80912)
	74373330	1	-	NUT, idler gear shaft (round-type)(Effective with engine #80912)
8	74002453	1	-	NUT, idler gear shaft retaining screw
9	74105453	1	-	GASKET, retaining screw nut
10	74367162	1	-	SCREW, retaining, idler gear shaft
11	74373515	-	1	SHAFT ASSEMBLY, idler gear (Includes item 12)
12	70910231	-	1	PLUG, pipe, hex-socket, 1/8"NPT
13	74373616	-	3	CAPSCREW, 5/8"NC x 1-3/4"
14	74373619	-	3	LOCKWASHER
15	74375574	-	1	GEAR ASSEMBLY, idler (Includes items 16 thru 19)
16	-----	-	1	BEARING, roller, idler gear (Not serviced separately)
17	74373510	-	1	RETAINER, idler gear bearing
18	70916277	-	6	CAPSCREW, 5/16"NC x 5/8"
19	74373332	-	3	PLATE, capscrew locking
20	74373511	-	1	NUT, idler gear shaft



VALVE OPERATING MECHANISM (First type)

T-13085

VALVE OPERATING MECHANISM

USAGE: Tractors prior to serial No. 4001

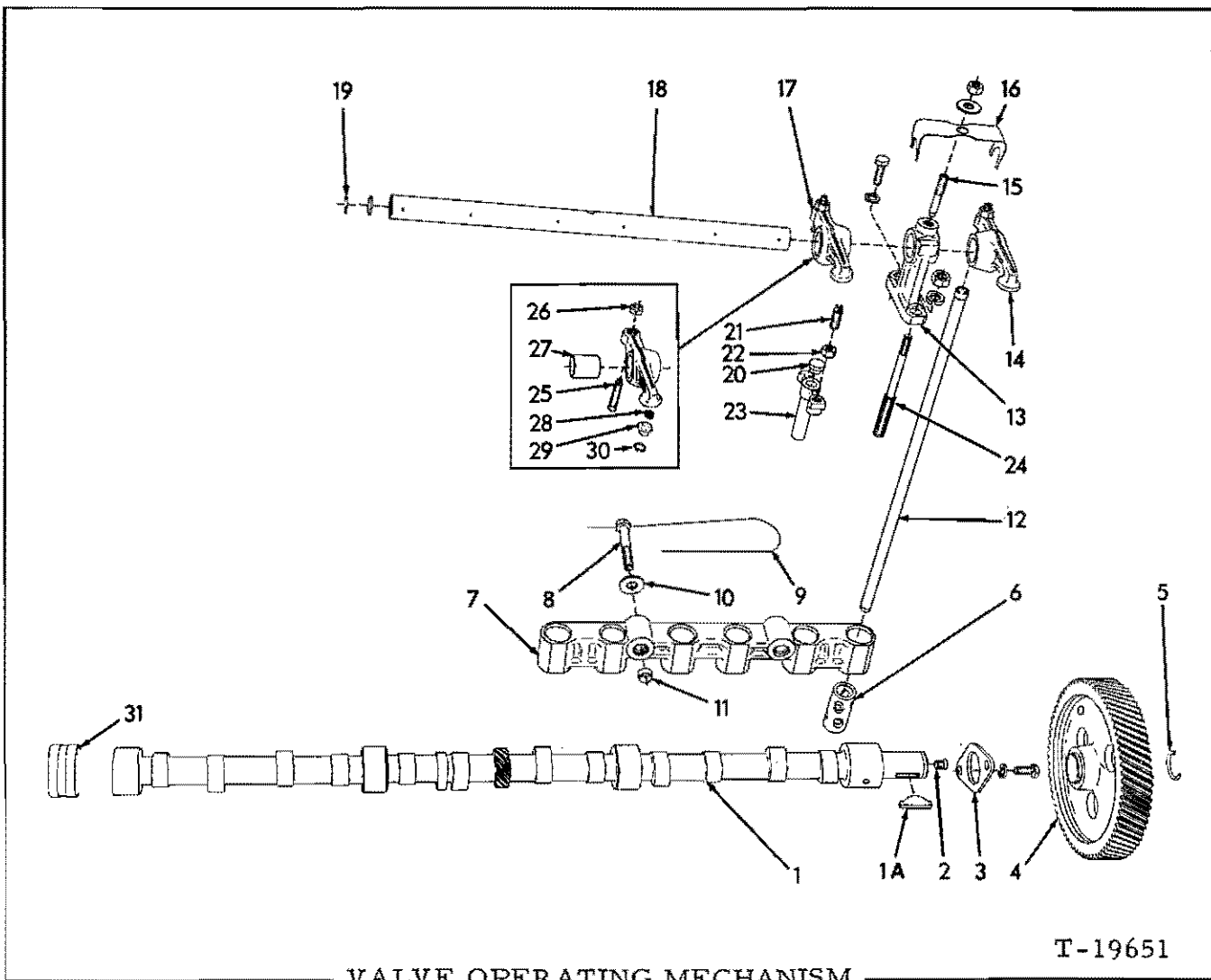
ITEM	PART NO.	QTY.	DESCRIPTION
1	74389931	1	CAMSHAFT
	70917031	1	KEY, #128 woodruff, 5/16" x 2-1/8"
2	74001318	1	PLUG, camshaft oil hole
3	74660390	1	PLATE, thrust (13/64" thick)(Original equipment)
	70903637	2	CAPSCREW, 1/2"NC x 1"
	70904208	2	LOCKWASHER, 1/2"
	74386776	1	PLATE, thrust (21/64" thick)(Service replacement only. See item 4)
	70903638	2	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	2	LOCKWASHER, 1/2"
4	-----	1	GEAR, camshaft (Original equipment. Order GEAR 74389053 PLATE 74386776, SPACER 74387469 and 2 CAPSCREWS 70903638)
	74389053	1	GEAR, camshaft (Service replacement only)
	74387469	1	SPACER, camshaft gear (11/32" thick)(Used with GEAR 74389053 only)
5	74254295	1	RING, snap, gear retaining
6	74360955	12	LIFTER, valve
7	74376276	2	BRACKET, valve lifter
8	70916317	4	CAPSCREW, 1/2"NC x 2-3/4" } Used prior to
	70904208	4	LOCKWASHER, 1/2" } engine #16-2754
	74376278	4	CAPSCREW, 1/2"NC x 3" } Effective with
9	74374018	2	WIRE, locking (20" long) } engine #16-2754
10	74376277	4	WASHER, plain
11	74303038	4	DOWEL, hollow, valve lifter bracket
12	74365565	12	ROD, push
13	74365957	12	STUD, rocker shaft bracket
	70904206	12	LOCKWASHER, 3/8"
	70910123	12	NUT, 3/8"NF
14	74365852	6	BRACKET, rocker shaft
15	74364460	4	ARM ASSEMBLY, rocker, left hand (Grooved. For exhaust valve only)(Includes items 21 thru 26)
	74366076	2	ARM ASSEMBLY, rocker, left hand (Not grooved. For intake valve only)(Includes items 21 thru 26)
16	74364132	2	SCREW, rocker shaft retaining
	70910123	2	NUT, 3/8"NF
	70900817	2	WASHER, plain, U.S. std., 3/8"
17	74338143	6	CLIP, spring, rocker arm retaining
	70912592	4	CAPSCREW, 3/8"NF x 5/8"
	70900817	4	WASHER, plain, U.S. std., 3/8"
18	74364459	2	ARM ASSEMBLY, rocker, right hand (Grooved. For exhaust valve only)(Includes items 21 thru 26)
	74366074	4	ARM ASSEMBLY, rocker, right hand (Not grooved. For intake valve only)(Includes items 21 thru 26)

(Continued)

VALVE OPERATING MECHANISM (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
19	74374933	2	SHAFT ASSEMBLY, rocker arm (Includes 70910002 PLUGS and item 20)
	70910002	4	PLUG, expansion, 3/4" diam.
20	74254363	4	RING, snap, rocker shaft (Effective with engine #16-2601)
21	74364422	12	WICK, oiling, rocker ball
22	74661329	12	BALL, rocker arm
23	74661328	12	RETAINER, rocker arm ball
24	74005425	12	SCREW, valve lash adjustment
25	74348440	12	NUT, valve lash adjustment screw
26	74660369	12	BUSHING, rocker arm
27	-----	--	BEARING, camshaft (See CYLINDER BLOCK)

MEMO



USAGE: Tractors serial No. 4001 and up

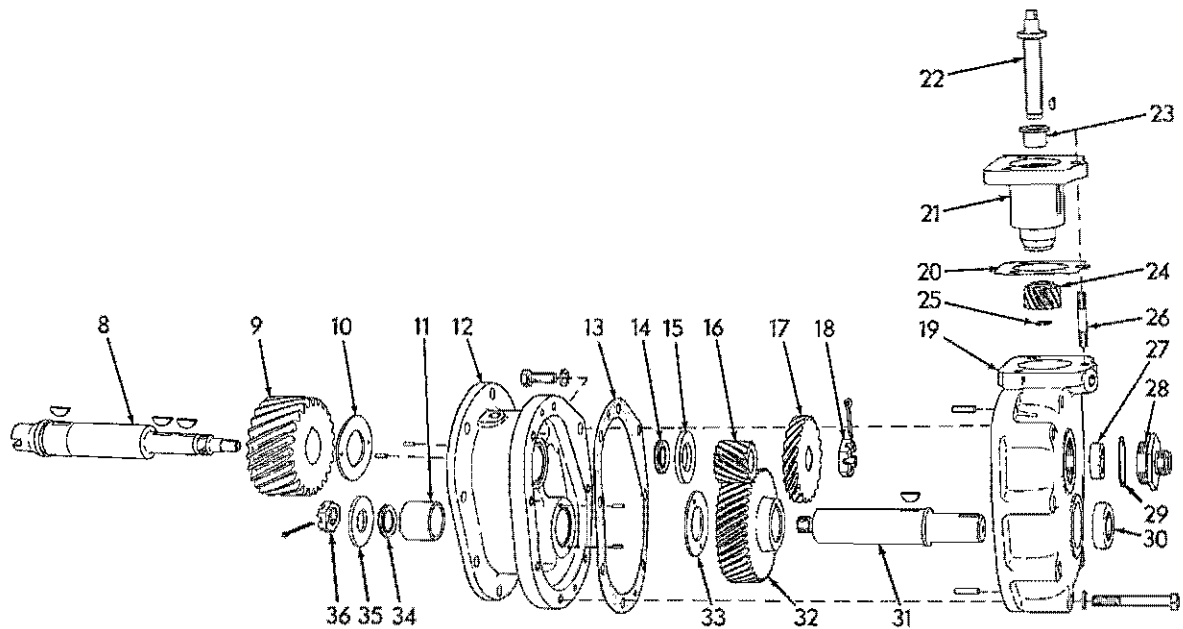
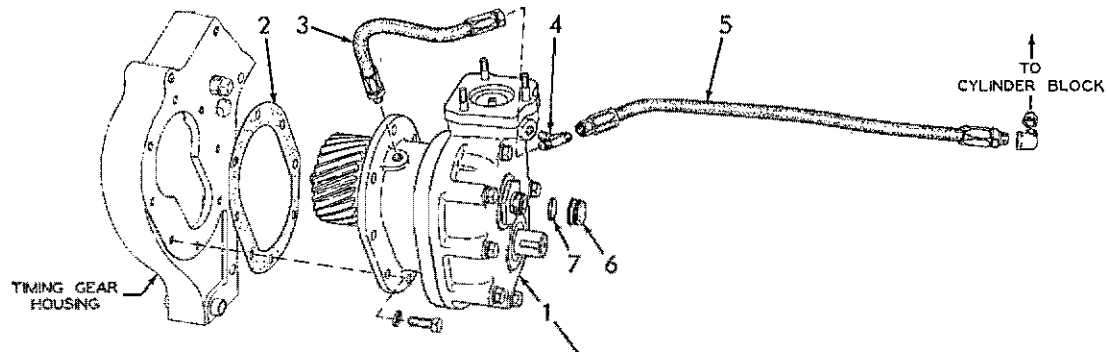
ITEM	PART NO.	QTY.	DESCRIPTION
1	74389931	1	CAMSHAFT
	70917031	1	KEY, #128 woodruff, 5/16" x 2-1/8"
1A	70923738	1	KEY, camshaft gear
2	74001318	1	PLUG, camshaft oil hole
3	74660390	1	PLATE, thrust (13/64" thick)(Original equipment)
	70903637	2	CAPSCREW, 1/2"NC x 1"
	70904208	2	LOCKWASHER, 1/2"
	74386776	1	PLATE, thrust (21/64" thick)(Service replacement only. See item 4)
	70903638	2	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	2	LOCKWASHER, 1/2"
4	-----	1	GEAR, camshaft (Original equipment. Order GEAR 74389954, PLATE 74386776, SPACER 74387469 and 2 CAPSCREWS 70903638)
	74389954	1	GEAR, camshaft (Service replacement only)
	74387469	1	SPACER, camshaft gear (11/32" thick)(Used with GEAR 74389954 only)

(Continued)

VALVE OPERATING MECHANISM (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
5	74254295	1	RING, snap, gear retaining
6	74360955	12	LIFTER, valve
7	74376276	2	BRACKET, valve lifter
8	74376278	4	CAPSCREW, drilled-hd., 1/2"NC x 3"
9	74374018	2	WIRE, locking, 1/16" x 20"
10	74376277	4	WASHER, valve lifter bracket capscrew
11	74303038	4	DOWEL, hollow, valve lifter bracket
12	74376584	12	ROD, push
13	74376540	6	BRACKET, rocker shaft
	70919224	6	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	6	LOCKWASHER, 3/8"
14	74385481	6	ARM ASSEMBLY, rocker, left hand (Includes items 25 thru 30)
15	74376498	2	STUD, rocker shaft retaining and oil restricting (drilled oil passage) (Used prior to engine #16-4425)
		2	STUD, rocker shaft retaining and oil restricting (Effective with engine #16-4425)
	70900817	2	WASHER, plain, U.S. std., 3/8"
	70910123	2	NUT, 3/8"NF
16	74378280	6	CLIP, spring, rocker arm retaining
	70912592	4	CAPSCREW, 3/8"NF x 5/8"
	70904206	4	LOCKWASHER, 3/8"
17	74385482	6	ARM ASSEMBLY, rocker, right hand (Includes items 25 thru 30)
18	74385300	2	SHAFT ASSEMBLY, rocker arm (Includes 70910002 PLUGS and item 19) (If for engines prior to #16-4425 also order 1 CAPSCREW 70912592)
	70910002	4	PLUG, expansion, 3/4" diam.
19	74254363	4	RING, snap, rocker shaft
20	74376538	6	INSERT, intake valve bridge
21	74366314	6	SCREW, intake valve bridge adjustment
22	74348440	6	NUT, intake valve bridge adjustment screw
23	74390270	6	BRIDGE ASSEMBLY, intake valve (Includes items 20 thru 22)
24	74377541	6	STUD, rocker shaft bracket (Also retains injection nozzle holder)
	70904208	6	LOCKWASHER, 1/2"
	70910325	6	NUT, 1/2"NC
25	74005425	12	SCREW, valve lash adjustment
26	74348440	12	NUT, valve lash adjustment screw
27	74660369	12	BUSHING, rocker arm
28	74364422	12	WICK, rocker arm
29	74379305	12	BALL, rocker arm
30	74385480	12	RING, snap, rocker arm ball retaining
31	-----	--	BEARING, camshaft (See CYLINDER BLOCK)

} Effective with
engine #16-3987



T-13098

T-13097

ACCESSORY DRIVE

USAGE: Tractors prior to serial No. 4001

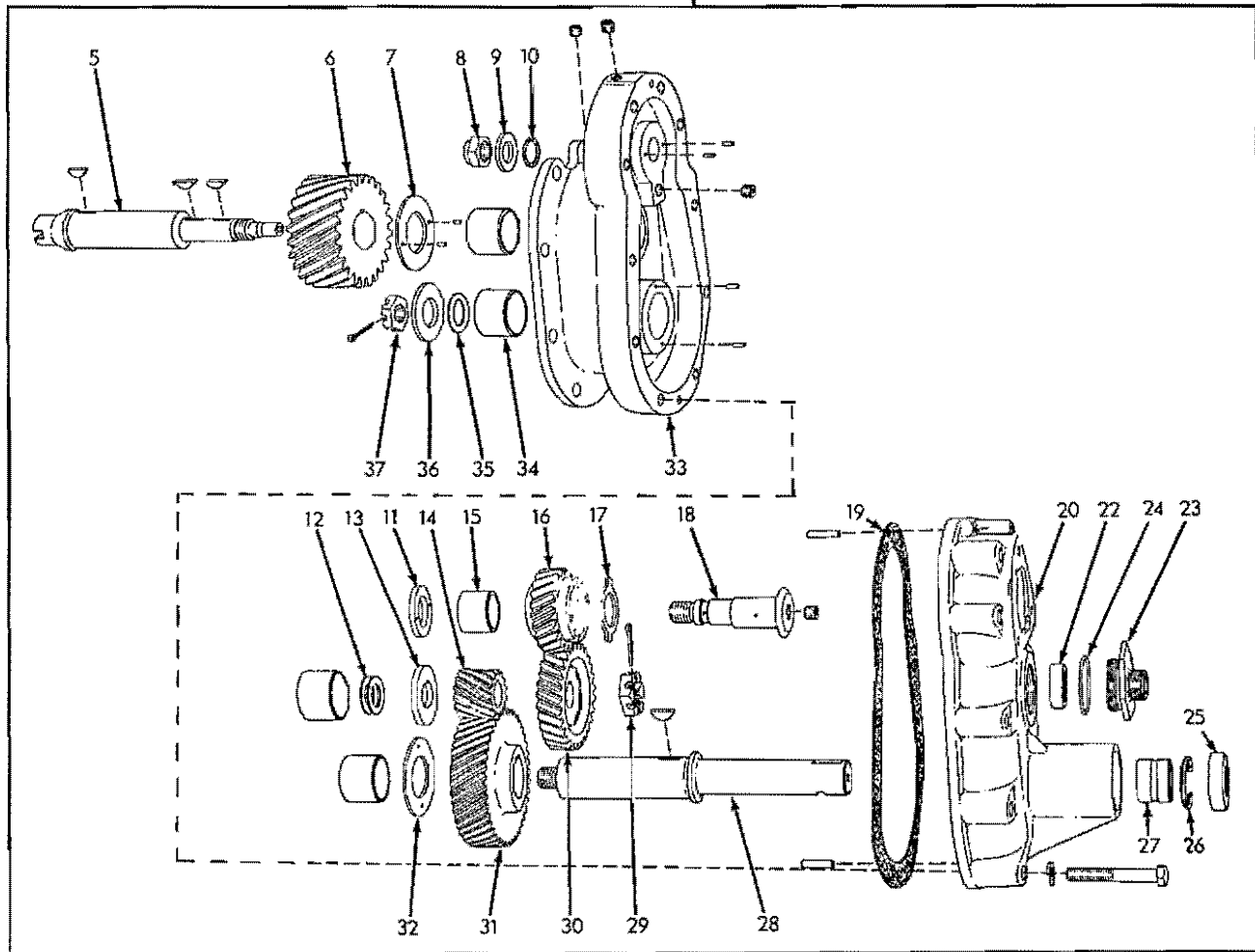
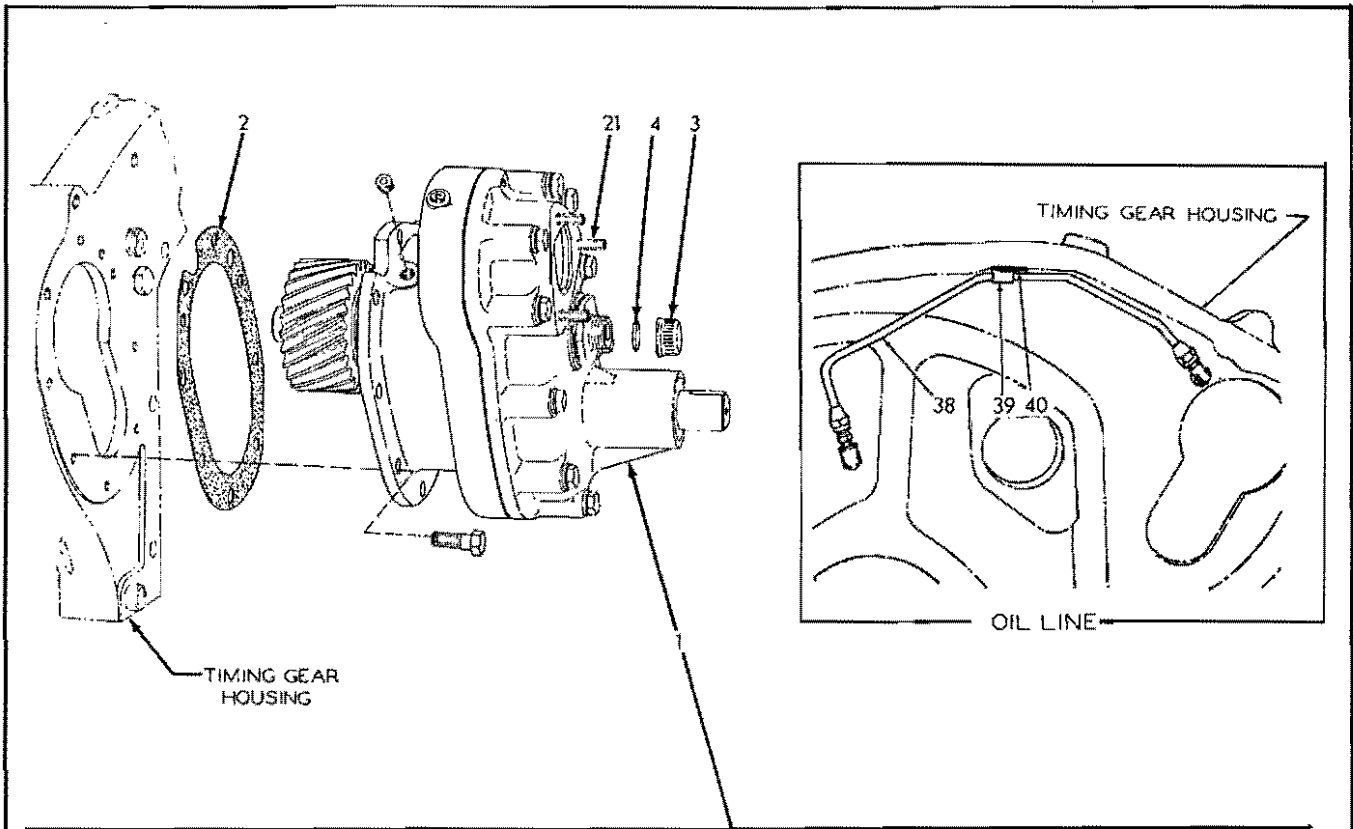
ITEM	PART NO.	QTY.	DESCRIPTION
1	74375576	1	DRIVE ASSEMBLY, accessory (Consists of items 8 thru 36)
	70903630	8	CAPSCREW, 3/8"NC x 1"
	70904206	8	LOCKWASHER, 3/8"
2	74660457	1	□GASKET, accessory drive to gear housing
3	74365676	1	HOSE ASSEMBLY, oil (See HOSE PARTS)
4	74374529	1	TEE (flare type, restricted, 1/4" tube, 1/8"NPT male)
5	74365678	1	HOSE ASSEMBLY, oil (See HOSE PARTS)
	70917032	1	ADAPTER, extension, 1/8"NPT male and female
	70917013	1	ELBOW, street, 90°, brass, 1/8"NPT

(Continued)

ACCESSORY DRIVE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
6	74371118	1	NUT, cover, tachometer hole
7	74367090	1	□ GASKET, tachometer hole nut
8	74371740	1	SHAFT, upper
	70905123	3	KEY, #9 woodruff, 3/16" x 3/4"
9	74389055	1	GEAR, accessory drive
10	74368154	1	WASHER, thrust, upper shaft, front
	70917014	2	PIN, dowel, 1/8" x 3/8"
11	74369746	4	BUSHING, accessory drive housing
12	74369702	1	HOUSING ASSEMBLY (Includes item 11)
13	74369705	1	GASKET, cover
14	74362726	2	SHIM, upper shaft end-play adjustment (laminated)
15	74388154	1	WASHER, thrust, rear
16	74364404	1	GEAR, upper shaft (14 teeth)
17	74385227	1	GEAR, driving, fuel transfer pump (21 teeth)
18	74369751	1	NUT, upper shaft
	70900808	1	PIN, cotter, 1/8" x 1-1/2"
19	74369739	1	COVER, accessory drive housing
	70903636	7	CAPSCREW, 3/8"NC x 2-3/4"
	70910211	1	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	8	LOCKWASHER, 3/8"
	70917023	2	PIN, dowel, 1/4" x 1"
20	74369764	1	GASKET, drive shaft retainer
21	74369762	1	RETAINER ASSEMBLY, transfer pump drive shaft (Includes item 23)
22	74369761	1	SHAFT, driving, fuel transfer pump
	70910173	1	KEY, #2 woodruff, 3/32" x 1/2"
23	74369886	2	BUSHING, transfer pump drive shaft
24	74375052	1	GEAR, transfer pump drive shaft (14 teeth)
25	74253721	1	RING, snap, transfer pump driven gear
26	74301519	3	STUD, fuel transfer pump
27	74368323	1	SEAL, oil, upper shaft
28	74365627	1	ADAPTER, tachometer drive
29	74251601	1	□ GASKET, tachometer drive adapter
30	74386879	1	SEAL, oil, lower shaft

(Continued)



ACCESSORY DRIVE (Second type)

T-19602

ACCESSORY DRIVE (Continued)

USAGE: Tractors prior to serial No. 4001

ITEM	PART NO.	QTY.	DESCRIPTION
31	74365281	1	SHAFT, lower
	70905123	1	KEY, #9 woodruff, 3/16" x 3/4"
32	74369712	1	GEAR, lower shaft (42 teeth)
33	74368154	1	WASHER, thrust, lower shaft, rear
	70917014	2	PIN, dowel, 1/8" x 3/8"
34	74362726	1	SHIM, lower shaft end-play adjustment (laminated)
35	74364166	1	WASHER, thrust, lower shaft, front
36	74371119	1	NUT, lower shaft
	70900808	1	PIN, cotter, 1/8" x 1-1/2"

ACCESSORY DRIVE

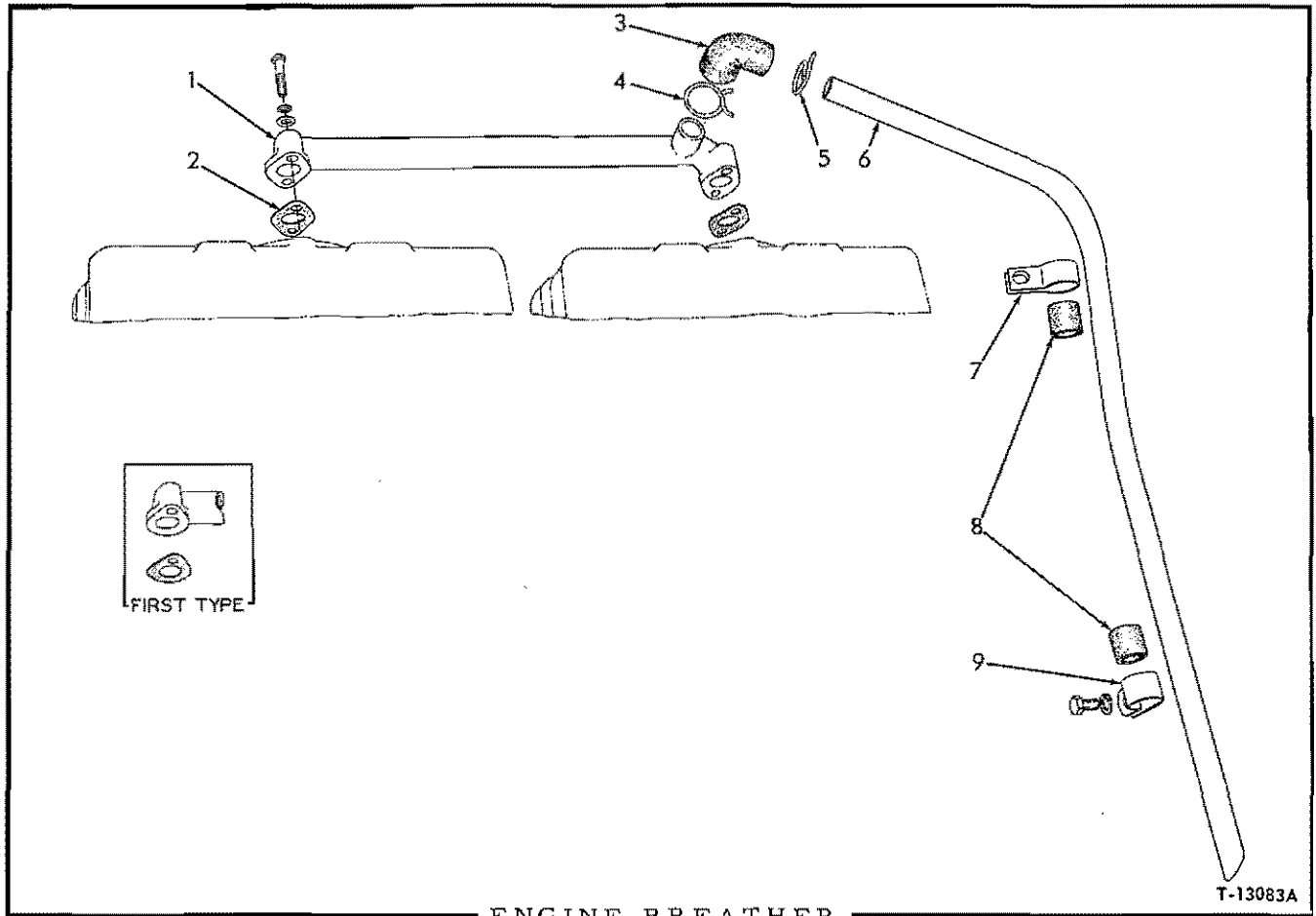
USAGE: Tractors serial No. 4001 and up

1	74389108	1	DRIVE ASSEMBLY, accessory (Consists of items 5 thru 37)
	70921520	8	CAPSCREW, Nylok, 3/8"NC x 7/8"
2	74376603	1	□ GASKET, accessory drive to gear housing
3	74371118	1	NUT, cover, tachometer hole
4	74367090	1	□ GASKET, tachometer hole nut
5	74371740	1	SHAFT, upper
	70917409	2	KEY, #9 woodruff, 3/16" x 3/4"
	70923280	1	KEY, hi-pro, 3/16" x 15/16"
6	74389055	1	GEAR, accessory drive
7	74368154	1	WASHER, thrust, upper shaft, front
	70917014	2	PIN, dowel, 1/8" x 3/8"
8	74376671	1	NUT, driven gear shaft
9	74389986	1	WASHER, driven gear shaft
10	70923574	1	O-RING, driven gear shaft
11	74376598	1	WASHER, thrust, driven gear
	70917014	2	PIN, dowel, 1/8" x 3/8"
12	74362726	2	SHIM, upper shaft, end-play adjustment (laminated)
13	74388154	1	WASHER, thrust, rear
14	74364404	1	GEAR, upper shaft (14 teeth)
15	74376596	1	BUSHING, driven gear
16	74377122	1	GEAR ASSEMBLY, driven, fuel transfer pump (Includes item 15)
17	74376599	1	PLATE, thrust, driven gear

(Continued)

ACCESSORY DRIVE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
18	74376591	1	SHAFT ASSEMBLY, driven gear (Includes PLUG indented below)
	70917673	1	PLUG, pipe, hex-socket, 1/8"NPT
19	74376604	1	GASKET, cover
20	74377276	1	COVER ASSEMBLY, housing (Includes item 27)
	70912069	10	CAPSCREW, 3/8"NC x 2-1/2"
	70904206	10	LOCKWASHER, 3/8"
	70917023	2	PIN, dowel, 1/4" x 1"
21	-----	3	STUD (See FUEL TRANSFER PUMP)
22	74391019	1	SEAL, oil, upper shaft
23	74365627	1	ADAPTER, tachometer drive
24	74251601	1	GASKET, tachometer drive adapter
25	74386879	1	SEAL, oil, lower shaft
26	74254742	1	RING, snap, bushing retaining
27	74377278	1	BUSHING, housing cover
28	74376702	1	SHAFT, lower
	70917409	1	KEY, #9 woodruff, 3/16" x 3/4"
29	74369751	1	NUT, upper shaft
	70900808	1	PIN, cotter, 1/8" x 1-1/2"
30	74376590	1	GEAR, driving, fuel transfer pump
31	74369712	1	GEAR, lower shaft (42 teeth)
32	74368154	1	WASHER, thrust, lower shaft, rear
	70917014	2	PIN, dowel, 1/8" x 3/8"
33	74376602	1	HOUSING ASSEMBLY (Includes item 34)
	70917673	4	PLUG, pipe, hex-socket, 1/8"NPT
34	74369746	4	BUSHING, accessory drive housing
35	74362726	1	SHIM, lower shaft end-play adjustment (laminated)
36	74364166	1	WASHER, thrust, lower shaft, front
37	74371119	1	NUT, lower shaft
	70900808	1	PIN, cotter, 1/8" x 1-1/2"
38	74376627	1	TUBE ASSEMBLY, lubricating oil (Includes nuts)
	70910141	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
	70913475	1	ELBOW, flare type, 1/4" tube, 1/8"NPT female
	70917841	1	NIPPLE, pipe, 1/8"NPT x 7/8"
	70917013	1	ELBOW, street, brass, 90°, 1/8"NPT
39	74361829	1	CLIP, tube supporting
40	74335669	1	CAPSCREW, drilled-hd., 1/4"NC x 1/2"
	70904204	1	LOCKWASHER, 1/4"
	74348691	1	WIRE, locking, #18 x 6"



USAGE: Tractors prior to serial No. 4001 (HD844 series engine)

* Engines prior to serial No. 16-2914, excluding Nos. 16-2792 thru 16-2811

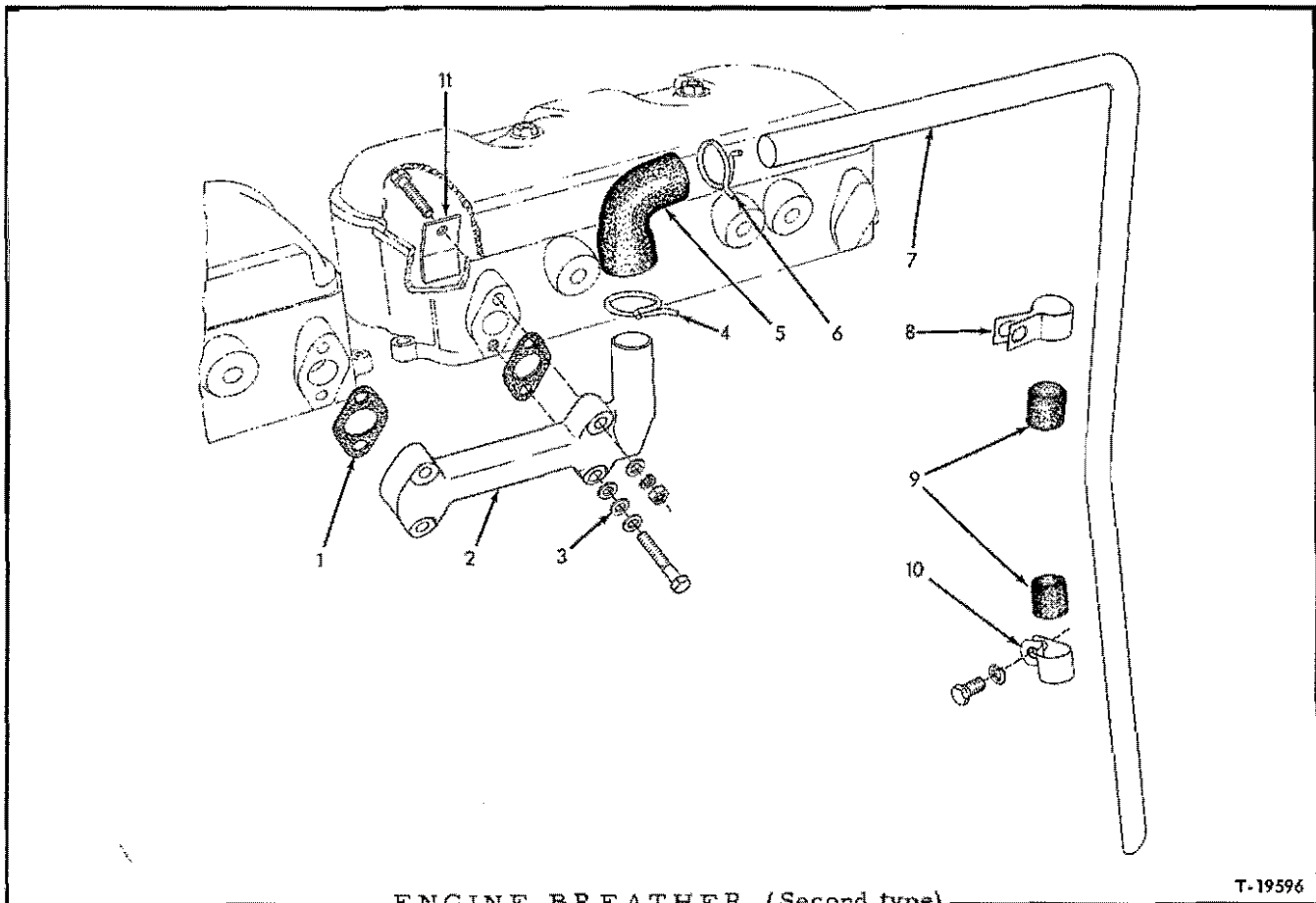
** Engines serial No. 16-2914 and up, including Nos. 16-2792 thru 16-2811

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	74372451	1 -	CONNECTOR, rocker cover
	74376404	- 1	CONNECTOR, rocker cover
	70903633	2 4	CAPSCREW, 3/8"NC x 1-3/4"
	70904206	2 4	LOCKWASHER, 3/8"
	70911115	2 4	WASHER, plain, SAE std., 3/8"
2	74371440	2 -	GASKET, rocker cover connector
	74376430	- 2	GASKET, rocker cover connector
3	74371768	1 1	ELBOW, breather tube (rubber)
4	74253978	1 1	CLAMP, breather tube elbow (1-5/8" diam.)
5	74253977	1 1	CLAMP, breather tube elbow (1-3/8" diam.)

(Continued)

ENGINE BREATHER (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
6	74372431	1	1	TUBE, breather
7	74371323	1	1	CLAMP, breather tube, upper
8	74371324	2	2	INSULATOR, breather tube (rubber)
9	74253510	1	1	CLAMP, breather tube, lower
	70911980	1	1	CAPSCREW, 1/2"NC x 7/8"
	70904208	1	1	LOCKWASHER, 1/2"



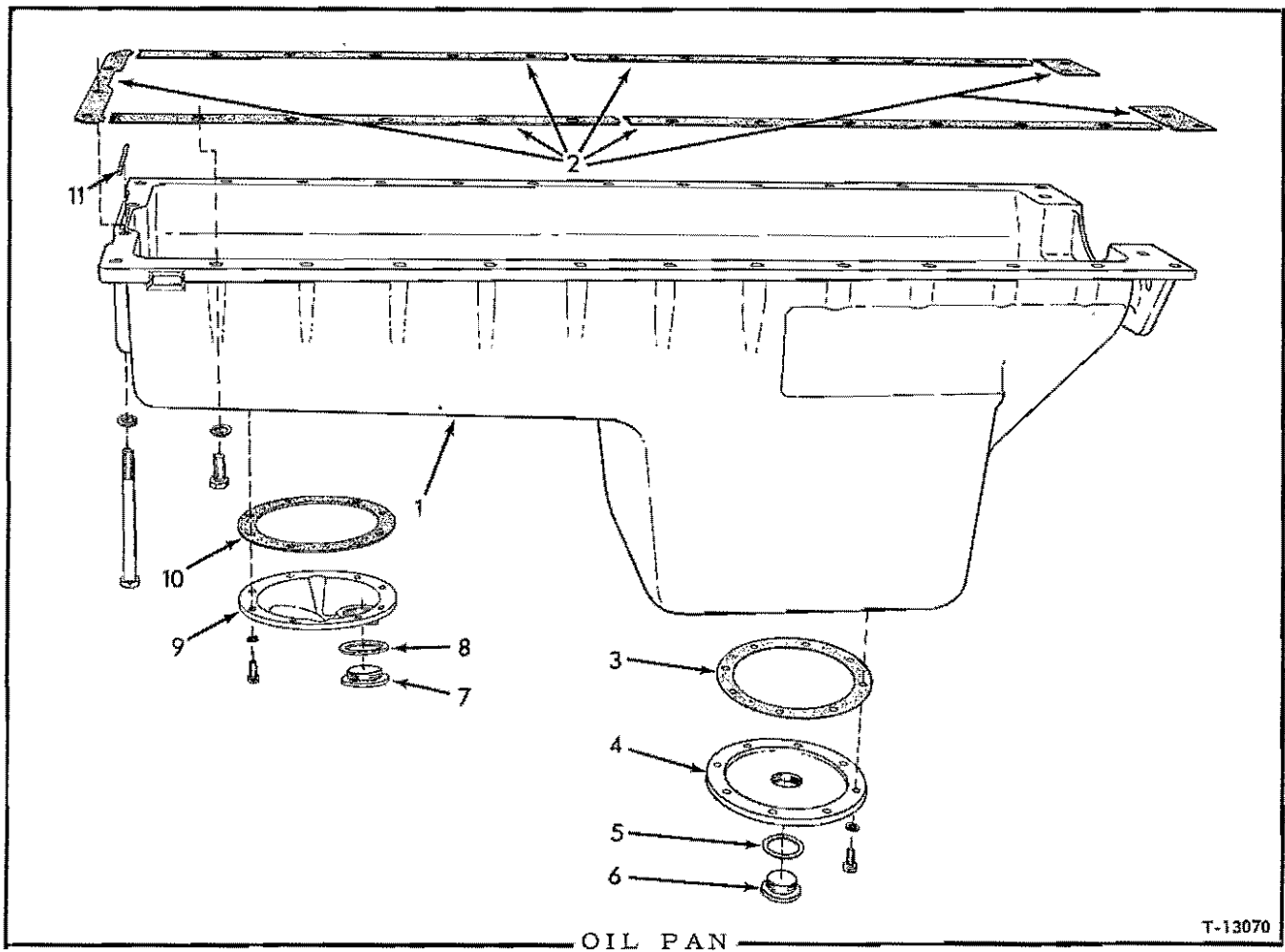
ENGINE BREATHER (Second type)

T-19596

ENGINE BREATHER

USAGE: Tractors serial No. 4001 and up (16000 series engine)

ITEM	PART NO.	QTY.	DESCRIPTION
1	74376656	2	□ GASKET, connector to cylinder head
2	74378258	1	CONNECTOR, cylinder head cover
	70913709	2	CAPSCREW, 3/8"NC x 3" (full thread)(Used prior to engine #16-3170)
	70905667	2	CAPSCREW, 3/8"NC x 3" (Effective with engine #16-3170)
	70904206	2	LOCKWASHER, 3/8"
	70910234	2	NUT, 3/8"NC
	70916274	2	CAPSCREW, 3/8"NC x 2-1/4"
3	74340903	8	WASHER, copper
4	74253978	1	CLAMP, breather tube elbow (1-5/8" diam.)
5	74371768	1	ELBOW, breather tube (rubber)
6	74253977	1	CLAMP, breather tube elbow (1-3/8" diam.)
7	74376999	1	TUBE, breather
8	74371323	1	CLAMP, tube supporting, upper
9	74371324	2	INSULATOR, breather tube (rubber)
10	74253510	1	CLAMP, tube supporting, lower
	70911980	1	CAPSCREW, 1/2"NC x 7/8"
	70904208	1	LOCKWASHER, 1/2"
11	74378190	2	BAFFLE, oil

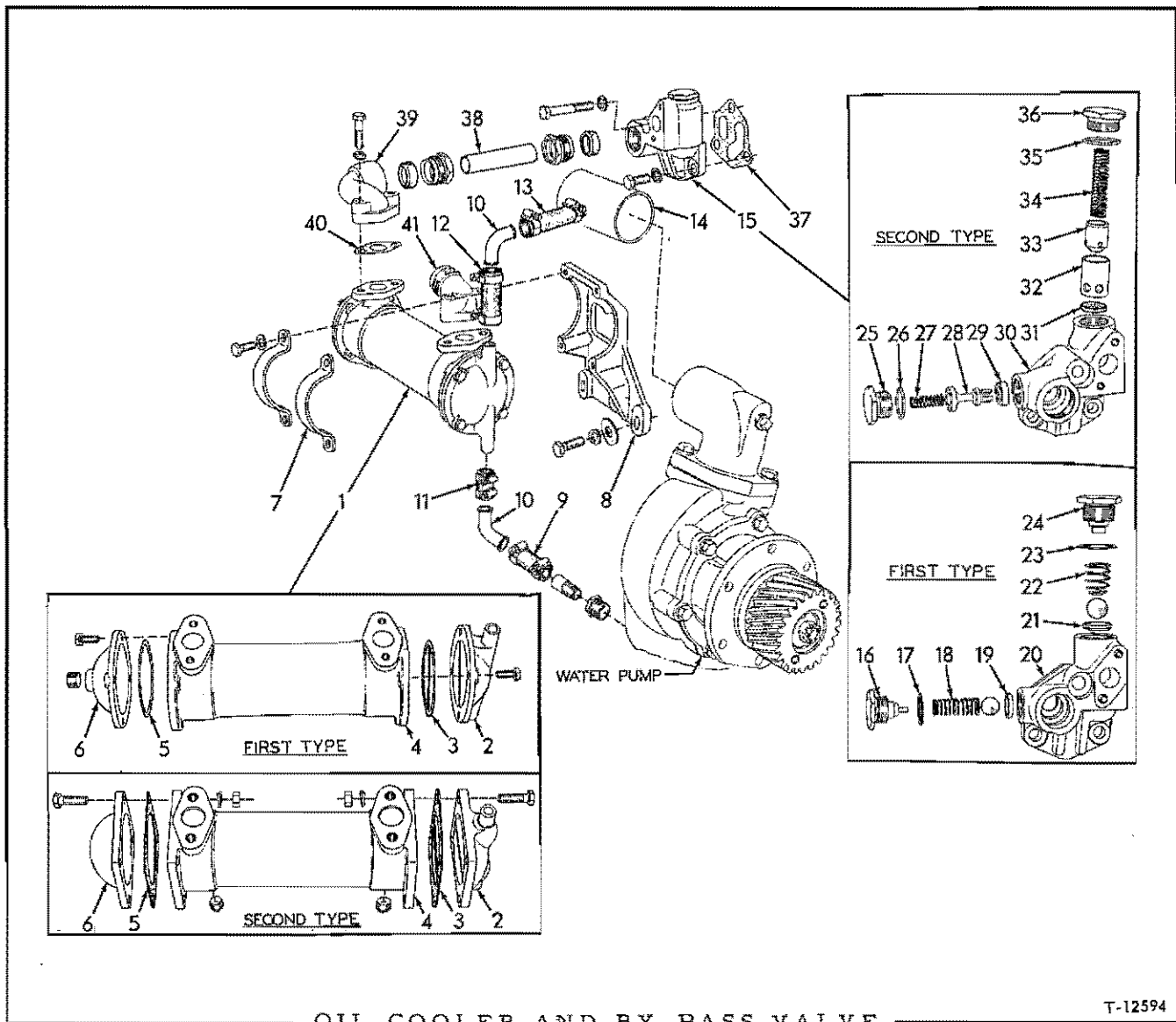


ITEM	PART NO.	QTY.	DESCRIPTION
1	74379123	1	PAN, oil (If required for engines prior to #81455 also order PLUG 70035250, GASKET 70035249 and items 9 thru 11)
	70919230	28	CAPSCREW, 1/2"NC x 1-3/8"
	70910258	2	CAPSCREW, 1/2"NC x 6"
	70904208	30	LOCKWASHER, 1/2"
2	74365129	1	GASKET SET, oil pan
3	74371289	1	□ GASKET, rear clean-out hole cover
4	74371255	1	PLATE, rear clean-out hole
	70903630	8	CAPSCREW, 3/8"NC x 1"
	70904206	8	LOCKWASHER, 3/8"
5	70667252	1	□ GASKET, rear drain plug
6	70035250	1	PLUG, rear oil drain
7	70226408	1	PLUG, front oil drain (7/8"NF thd.)(Engines #81455 thru #83357)
	70035250	1	PLUG, front oil drain (1-1/2"NF thd.)(Effective with engine #83358)
8	70226012	1	GASKET, front oil drain plug (7/8" I.D.)(Engines #81455 thru #83357)
	70035249	1	□ GASKET, front oil drain plug (1-1/2" I.D.)(Effective with engine #83358)

(Continued)

OIL PAN (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
9	74373770	1	COVER, front clean-out hole (Effective with engine #81455. If for engines prior to #83358 also order PLUG 70035250 and GASKET 70035249)
	70903630	8	CAPSCREW, 3/8"NC x 1"
	70904206	8	LOCKWASHER, 3/8"
10	74373069	1	□ GASKET, front clean-out hole cover (Effective with engine #81455)
11	74379070	1	SEAL, oil (Effective with engine #16-3816)



USAGE: Engines prior to serial No. 16-2743 (HD844 series engine)

ITEM	PART NO.	QTY.	DESCRIPTION
1	74376934	1	COOLER, lubricating oil (Consists of items 2 thru 6)
	7404007	1	BONNET, front (For first type cooler w/round flange)
	70903626	4	CAPSCREW, 5/16"NC x 3/4"
2	74041520	1	BONNET, front (For second type cooler w/square flange)
	70903631	4	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	4	LOCKWASHER, 3/8"
	70910324	4	NUT, 3/8"NC
3	74040009	1	GASKET, front bonnet (For first type cooler w/round flange)
	74041523	1	GASKET, front bonnet (For second type cooler w/square flange)

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OIL COOLER AND BY-PASS VALVE (Continued)

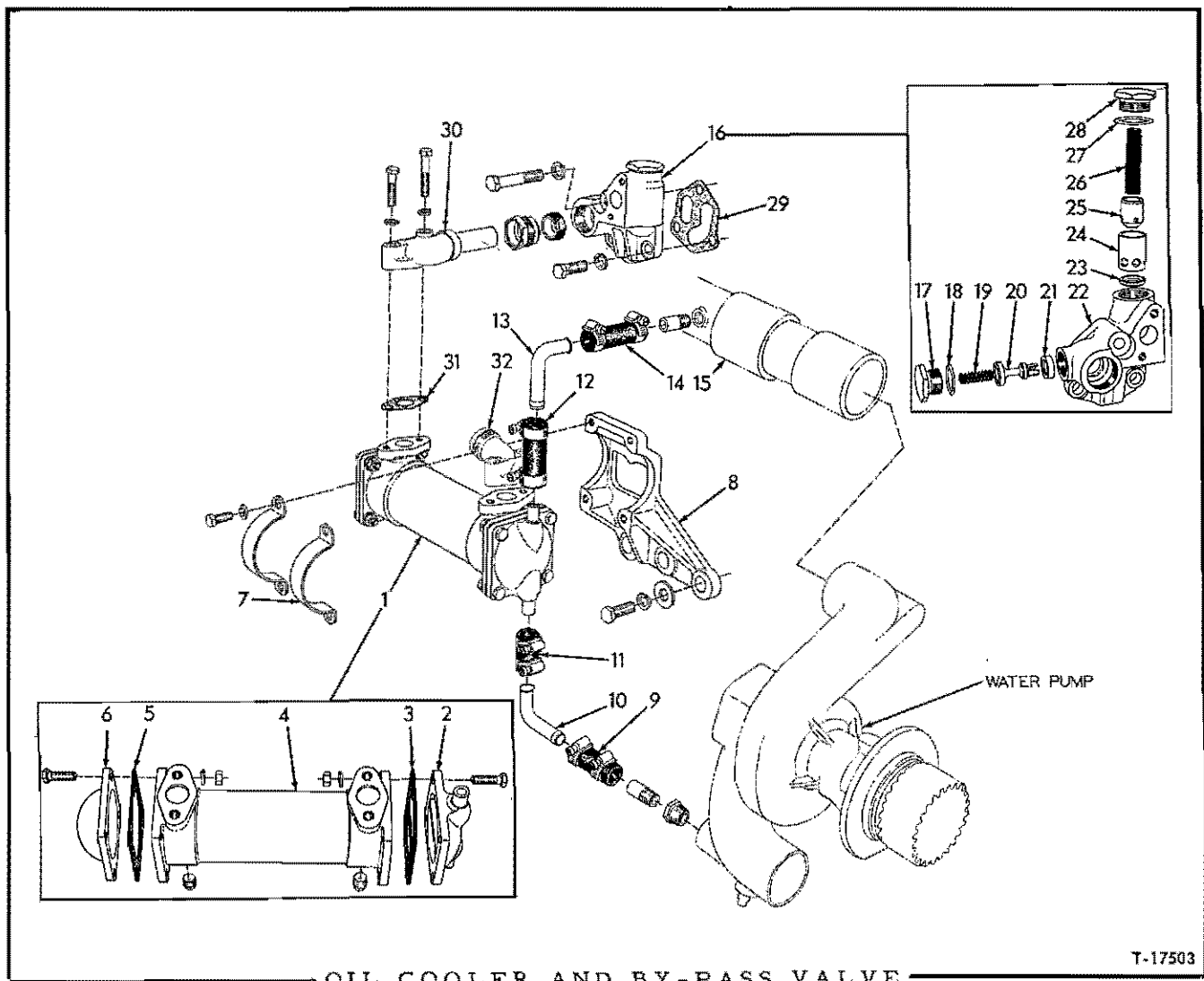
ITEM	PART NO.	QTY.	DESCRIPTION
4	74040006	1	CORE, oil cooler (For first type cooler w/round flange)
	74376936	1	CORE ASSEMBLY, oil cooler (Includes PLUGS indented below)(For second type cooler w/square flange)
	70901653	2	PLUG, pipe, 3/8"NPT
5	74040010	1	GASKET, rear bonnet (For first type cooler w/round flange)
	74349984	1	GASKET, rear bonnet (For second type cooler w/square flange)
6	74040008	1	BONNET, rear (For first type cooler w/round flange)
	70907856	1	PLUG, pipe, hex-socket, 3/8"NPT
	70903626	4	CAPSCREW, 5/16"NC x 3/4"
	74375651	1	BONNET, rear (For second type cooler w/square flange)
7	70903631	4	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	4	LOCKWASHER, 3/8"
	70910324	4	NUT, 3/8"NC
	74371874	2	CLAMP, oil cooler
8	70903630	4	CAPSCREW, 3/8"NC x 1"
	70904206	4	LOCKWASHER, 3/8"
	74371872	1	BRACKET, mounting
	70903639	3	CAPSCREW, 1/2"NC x 1-1/2"
9	70904208	3	LOCKWASHER, 1/2"
	70918232	3	WASHER, plain
	74371891	1	HOSE, oil cooler (5/8"I.D. x 2-1/2")
	70921911	2	CLAMP, hose
10	70917026	1	NIPPLE, pipe, 3/8"NPT x 1-1/2" (One end threaded)
	70904271	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT
	74372832	2	ELBOW, oil cooler hose
11	74612563	1	HOSE, oil cooler (5/8"I.D. x 1-1/2")
	70921911	2	CLAMP, hose
12	74371892	1	HOSE, oil cooler (5/8"I.D. x 3")
	70921911	2	CLAMP, hose
13	74372236	1	HOSE, oil cooler (5/8"I.D. x 4-1/4")
	70921911	2	CLAMP, hose
14	-----	-	TEE (See WATER INLET MANIFOLD AND HEAT EXCHANGER)
15	74373604	1	VALVE ASSEMBLY, oil cooler by-pass (Consists of items 25 thru 36)
	70903639	2	CAPSCREW, 1/2"NC x 1-1/2"
	70905668	1	CAPSCREW, 1/2"NC x 3-1/4"
	70904208	3	LOCKWASHER, 1/2"
<p><u>NOTE:</u> Items 16 thru 24 comprise the FIRST TYPE OIL BY-PASS VALVE used on engines prior to serial No. 81137</p>			
16	74371288	1	CAP, by-pass valve

(Continued)

OIL COOLER AND BY-PASS VALVE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
17	74115449	1	GASKET, by-pass valve cap
18	74372453	1	SPRING, by-pass valve
	70917012	1	BALL, steel, 3/4" diam.
19	74368610	1	SEAT, by-pass valve ball
20	-----	1	HOUSING, by-pass valve (Order item 15)
21	74348580	1	INSERT, check valve seat (Effective with engine #80662)
22	74347190	1	SPRING, check valve
	70917015	1	BALL, steel, 7/8" diam.
23	74253751	1	GASKET, check valve cap
24	74371026	1	CAP, check valve
			<u>NOTE:</u> Items 25 thru 36 comprise the SECOND TYPE OIL BY-PASS VALVE effective with engine serial No. 81137.
25	74373609	1	CAP, by-pass valve
26	74115449	1	GASKET, by-pass valve cap
27	74373608	1	SPRING, by-pass valve
28	74373607	1	VALVE, by-pass
29	74373606	1	SEAT, by-pass valve
30	74373677	1	HOUSING ASSEMBLY, by-pass valve (Includes items 29 and 31)
31	74373614	1	SEAT, check valve
32	74373612	1	SLEEVE, check valve piston
33	74373613	1	PISTON, check valve
34	74373611	1	SPRING, check valve
35	74253751	1	GASKET, check valve cap
36	74373610	1	CAP, check valve
37	74386495	1	□ GASKET, by-pass valve to block
38	74371432	1	TUBE, cooler to by-pass valve
	70917761	2	NUT, male, Sealastic, 1" tube
	70917770	1	RING, Sealastic, 1" tube (Includes slip ferrule)
	70915535	1	RING, Sealastic, 1" tube (Includes locking ferrule)
39	74371430	1	ELBOW, rear connection
	70903632	2	CAPSCREW, 3/8"NC x 1-1/2"
	70904206	2	LOCKWASHER, 3/8"
40	74371027	1	□ GASKET, rear connection elbow
41	-----	-	ELBOW (See OIL FILTER)

MEMO



OIL COOLER AND BY-PASS VALVE

T-17503

USAGE: Effective with engine serial No. 16-2743 but later discontinued with tractor serial No. 4001 (HD844 series engine)

ITEM	PART NO.	QTY.	DESCRIPTION
1	74376934	1	COOLER, lubricating oil (Consists of items 2 thru 6)
2	74041520	1	BONNET, oil cooler, front
	70903631	4	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	4	LOCKWASHER, 3/8"
	70910324	4	NUT, 3/8"NC
3	74041523	1	GASKET, front bonnet
4	74376936	1	CORE, oil cooler
	70901653	2	PLUG, pipe, 3/8"NPT
5	74349984	1	GASKET, rear bonnet
6	74375651	1	BONNET, oil cooler, rear
	70903631	4	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	4	LOCKWASHER, 3/8"
	70910324	4	NUT, 3/8"NC

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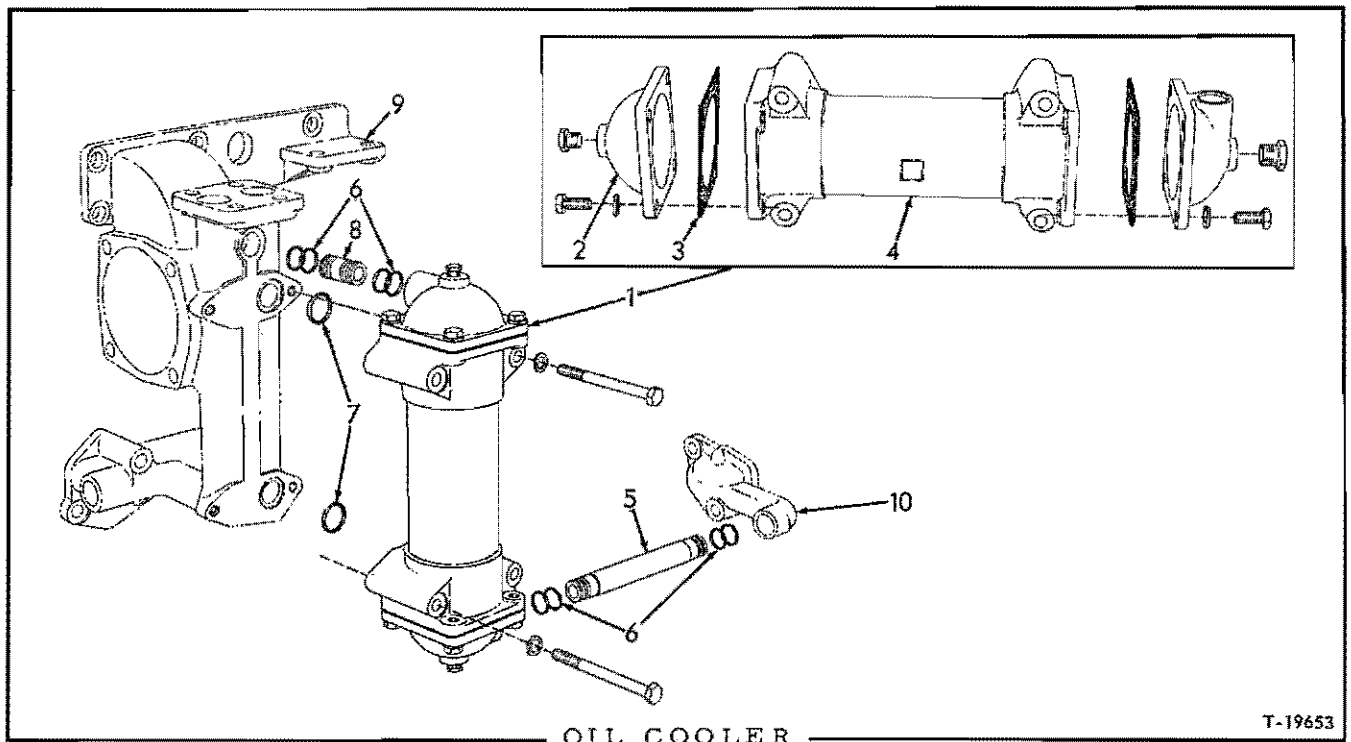
OIL COOLER AND BY-PASS VALVE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
7	74371874	2	CLAMP, oil cooler
	70903630	4	CAPSCREW, 3/8"NC x 1"
	70904206	4	LOCKWASHER, 3/8"
8	74375660	1	BRACKET, mounting
	70903639	3	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	3	LOCKWASHER, 1/2"
	70918232	3	WASHER, plain
9	74371891	1	HOSE, oil cooler (5/8" I. D. x 2-1/2")
	70921911	2	CLAMP, hose
	70917026	1	NIPPLE, pipe, 3/8"NPT x 1-1/2" (One end threaded)
	70904271	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT
10	74375704	1	ELBOW, pump to cooler
11	74371890	1	HOSE, oil cooler (5/8" I. D. x 1-3/4")
	70921911	2	CLAMP, hose
12	74375706	1	HOSE, oil cooler (5/8" I. D. x 2-1/4")
	70921911	2	CLAMP, hose
13	74375703	1	ELBOW, cooler to water inlet
14	74375705	1	HOSE, oil cooler (5/8" I. D. x 2-5/8")
	70921911	2	CLAMP, hose
	70917026	1	NIPPLE, pipe, 3/8"NPT x 1-1/2" (One end threaded)
15	-----	-	INLET (See WATER INLET MANIFOLD AND HEAT EX- CHANGER)
16	74373604	1	VALVE ASSEMBLY, oil cooler by-pass (Consists of items 17 thru 28)
	70903639	2	CAPSCREW, 1/2"NC x 1-1/2"
	70905668	1	CAPSCREW, 1/2"NC x 3-1/4"
	70904208	3	LOCKWASHER, 1/2"
17	74373609	1	CAP, by-pass valve
18	74115449	1	GASKET, by-pass valve cap
19	74373608	1	SPRING, by-pass valve
20	74373607	1	VALVE, by-pass
21	74373606	1	SEAT, by-pass valve
22	74373677	1	HOUSING ASSEMBLY, by-pass valve (Includes items 21 and 23)
23	74373614	1	SEAT, check valve
24	74373612	1	SLEEVE, check valve piston
25	74373613	1	PISTON, check valve
26	74373611	1	SPRING, check valve

(Continued)

OIL COOLER AND BY-PASS VALVE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
27	74253751	1	GASKET, check valve cap
28	74373610	1	CAP, check valve
29	74386495	1	□ GASKET, by-pass valve to block
30	74375662	1	LINE, cooler to by-pass valve
	70917761	1	NUT, male, Sealastic, 1" tube
	70915535	1	RING, Sealastic, 1" tube (Includes ferrule)
	70914499	1	CAPSCREW, 3/8"NC x 1-5/8"
	70903634	1	CAPSCREW, 3/8"NC x 2"
	70904206	2	LOCKWASHER, 3/8"
31	74371027	1	□ GASKET, rear connection elbow
32	-----	-	ELBOW (See OIL FILTER)

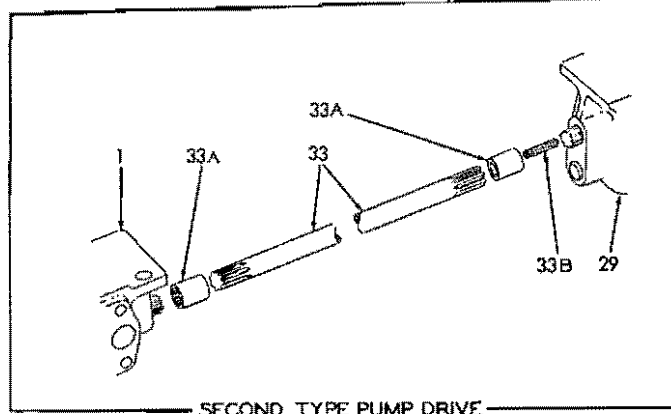
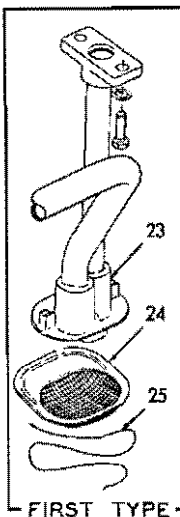
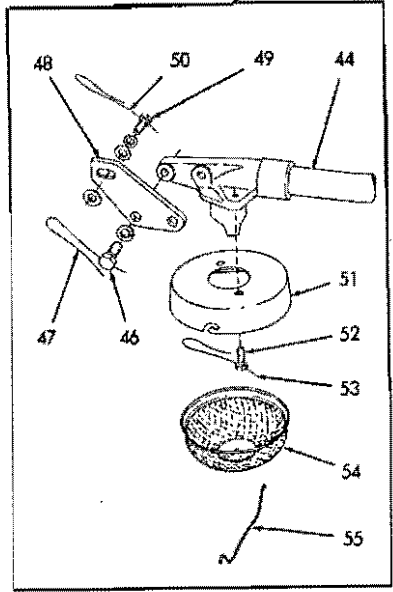
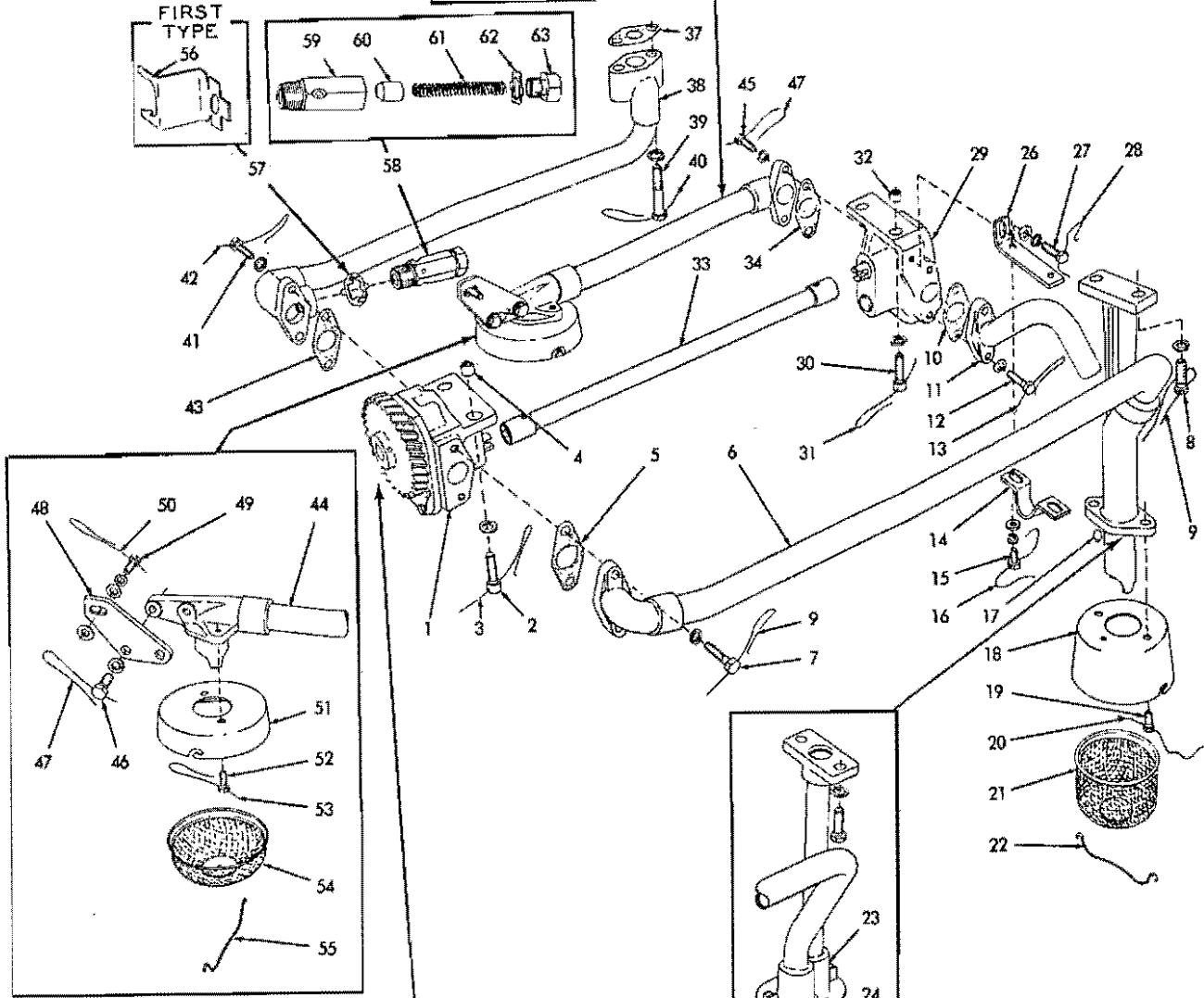
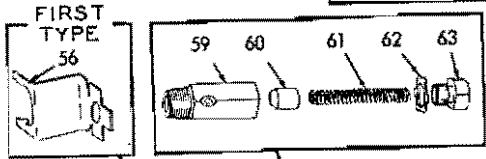
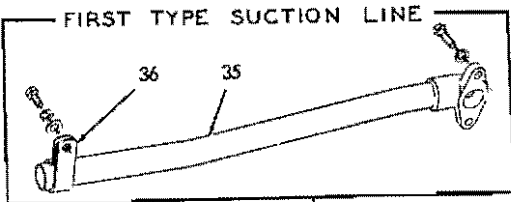


OIL COOLER

T-19653

USAGE: Tractors serial No. 4001 and up (16000 series engine)

ITEM	PART NO.	QTY.	DESCRIPTION
1	74386640	1	EXCHANGER ASSEMBLY, heat, lubricating oil (Consists of items 2 thru 4)
	70919801	4	CAPSCREW, 3/8"NC x 4"
	70904206	4	LOCKWASHER, 3/8"
2	74386642	2	BONNET, heat exchanger core
	70920333	2	PLUG, pipe, hex-hd., 3/8"NPT (Used prior to engine #4883)
	70919840	2	PLUG, pipe, hex-hd., 1/4"NPT (Effective with engine #4883)
	70903629	8	CAPSCREW, 3/8"NC x 3/4"
	70904206	8	LOCKWASHER, 3/8"
3	74349984	2	GASKET, heat exchanger core
4	74376991	1	CORE, heat exchanger
5	74376815	1	TUBE, water, heat exchanger to water pump (7-1/4" long)(Used prior to engine #16-05389)
	74386864	1	TUBE, water, heat exchanger to water pump (8-1/2" long)(Effective with engine #16-05389)
6	70923379	8	□ O-RING, heat exchanger water tubes
7	74255511	3	□ O-RING, heat exchanger to manifold (1-3/16" O. D.)(Used prior to engine #16-5686)
	74255631	2	□ O-RING, heat exchanger to manifold (1-7/16" O. D.)(Effective with engine #16-5686)
8	74376813	1	TUBE, water, heat exchanger to manifold (1-5/8" long)(Used prior to engine #16-5686)
	74389129	1	TUBE, water, heat exchanger to manifold (1-7/16" long)(Effective with engine #16-5686)
9	-----	-	MANIFOLD, water and oil (See WATER INLET MANIFOLD AND HEAT EXCHANGER)
10	-----	-	FLANGE, water by-pass (See WATER OUTLET MANIFOLD)



OIL PUMPS

T-19497

OIL PUMPS

* Model HD844 series engines prior to serial No. 16-2753
 ** Model HD844 series engines serial No. 16-2753 and up
 *** Model 16000 series engines (Tractors #4001 and up)

Tractors prior to #4001

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	74373707	1	1	-	PUMP ASSEMBLY, pressure (See page 80 for parts) (Order PUMP ASSEMBLY 74389941)
	74389941	-	-	1	PUMP ASSEMBLY, pressure (See page 80 for parts) (Used prior to engine #16-4311)
	74388954	-	-	1	PUMP ASSEMBLY, pressure (See page 80 for parts) (Effective with engine #16-4311)
2	70912274	2	-	-	CAPSCREW, socket-hd., 7/16"NC x 1-1/2"
	74374547	-	2	2	CAPSCREW, drilled socket-hd., 7/16"NC x 1-1/2"
3	70904207	2	2	2	LOCKWASHER, 7/16"
	74509035	-	1	1	WIRE, locking, #18 x 10"
4	74371253	2	2	2	DOWEL, hollow, pressure pump
5	74371345	1	1	1	□GASKET, pressure pump suction line
6	74377167	-	1	1	LINE, suction, pressure pump
7	74378558	-	2	2	CAPSCREW, drilled-hd., 3/8"NC x 1-1/8"
	70904206	-	2	2	LOCKWASHER, 3/8"
8	74377201	-	2	2	CAPSCREW, drilled-hd., 7/16"NC x 1-1/4"
	70904207	-	2	2	LOCKWASHER, 7/16"
9	74509035	-	2	2	WIRE, locking, #18 x 10"
10	74371345	1	1	1	□GASKET, discharge line
11	74375632	1	1	1	LINE, discharge, scavenging pump
12	70910211	2	-	-	CAPSCREW, 3/8"NC x 1-1/8"
	74378558	-	2	2	CAPSCREW, drilled-hd., 3/8"NC x 1-1/8"
	70904206	2	2	2	LOCKWASHER, 3/8"
13	74509035	-	1	1	WIRE, locking, #18 x 10"
14	74371293	1	1	1	CLAMP, pressure pump suction line
15	70905656	2	-	-	CAPSCREW, 1/4"NC x 5/8"
	74377056	-	2	2	CAPSCREW, drilled-hd., 1/4"NC x 5/8"
	70904204	2	2	2	LOCKWASHER, 1/4"
	70911114	2	2	2	WASHER, plain, SAE std., 1/4"
16	74348691	-	2	2	WIRE, locking, #18 x 6"
17	74374166	-	1	-	PIN, locating, oil pump screen cover (Used prior to engine #16-2999)
18	74378592	-	1	1	COVER, pressure pump oil screen
19	74374129	-	2	2	CAPSCREW, drilled-hd., 5/16"NC x 3/4"
20	74509035	-	1	1	WIRE, locking, #18 x 10"
21	74374127	-	1	1	SCREEN, pressure oil pump
22	74376294	-	1	1	RETAINER, pressure oil pump screen
23	-----	1	-	-	LINE, suction, pressure pump (Order item 6 and items 17 thru 22)
	70910211	2	-	-	CAPSCREW, 3/8"NC x 1-1/8"
	70904706	2	-	-	CAPSCREW, 7/16"NC x 1-1/4"
	70904206	2	-	-	LOCKWASHER, 3/8"
	70904207	2	-	-	LOCKWASHER, 7/16"

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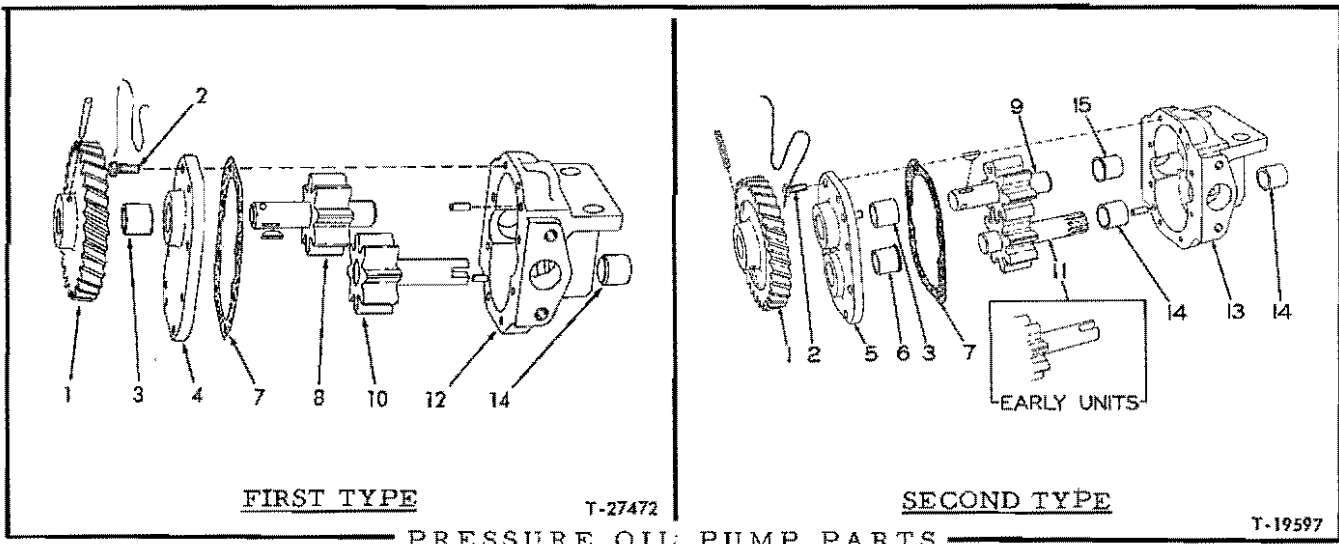
OIL PUMPS (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
24	74500270	1	-	-	SCREEN, oil
25	74374018	1	-	-	WIRE, oil screen retaining (1/16" x 20")
26	74371281	1	1	1	BRACKET, suction line clamp
27	70903771	1	-	-	CAPSCREW, 5/16"NC x 7/8"
	74335600	-	1	1	CAPSCREW, drilled-hd., 5/16"NC x 7/8"
	70904205	1	1	1	LOCKWASHER, 5/16"
	70910335	1	1	1	WASHER, plain, SAE std., 5/16"
28	74348691	-	1	1	WIRE, locking, #18 x 6"
29	74371297	1	1	-	PUMP ASSEMBLY, scavenging (See page 82 for parts) (Order PUMP ASSEMBLY 74376829)
	74376829	-	-	1	PUMP ASSEMBLY, scavenging (See page 82 for parts) (Used prior to engine #16-4311)
	74385971	-	-	1	PUMP ASSEMBLY, scavenging (See page 82 for parts) (Effective with engine #16-4311)
30	70912274	2	-	-	CAPSCREW, socket-hd., 7/16"NC x 1-1/2"
	74374547	-	2	2	CAPSCREW, drilled socket-hd., 7/16"NC x 1-1/2"
	70904207	2	2	2	LOCKWASHER, 7/16"
31	74509035	-	1	1	WIRE, locking, #18 x 10"
32	74371253	2	2	2	DOWEL, hollow, scavenging pump
33	74379834	1	1	1	SHAFT ASSEMBLY, scavenging pump drive (1 shaft, 2 sleeves and 2 pins)(Used prior to engine #16-4311)
	74385537	-	-	1	SHAFT ASSEMBLY, scavenging pump drive (Effective with engine #16-4311)
33A	74385536	-	-	2	COUPLING, splined, scavenging pump drive (Effective with engine #16-4311)
33B	74385715	-	-	1	SPRING, pump drive shaft (Effective with engine #16-4311)
34	74371345	1	1	1	□GASKET, scavenging pump suction line
35	74375629	1	-	-	LINE, suction, scavenging pump
	70910211	2	-	-	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	2	-	-	LOCKWASHER, 3/8"
36	74371274	1	-	-	CLAMP, scavenging pump discharge line
	70903771	1	-	-	CAPSCREW, 5/16"NC x 7/8"
	70904205	1	-	-	LOCKWASHER, 5/16"
	70910335	1	-	-	WASHER, plain, SAE std., 5/16"
37	74660423	1	1	1	□GASKET, discharge line to block
38	74375613	1	1	1	TUBE, pressure pump discharge
	70903781	2	-	-	CAPSCREW, 1/2"NC x 2-3/4"
39	74374499	-	2	2	CAPSCREW, drilled-hd., 1/2"NC x 2-3/4"
	70904208	2	2	2	LOCKWASHER, 1/2"
40	74348691	-	1	1	WIRE, locking, #18 x 6"
	70910211	2	-	-	CAPSCREW, 3/8"NC x 1-1/8"
41	74378558	-	2	2	CAPSCREW, drilled-hd., 3/8"NC x 1-1/8"
	70904206	2	2	2	LOCKWASHER, 3/8"
42	74509035	-	1	1	WIRE, locking, #18 x 10"

(Continued)

OIL PUMPS (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
43	74371345	1	1	1	□ GASKET, discharge line to pump
44	74375566	-	1	1	TUBE, suction, scavenging pump
45	74378558	-	2	2	CAPSCREW, drilled-hd., 3/8"NC x 1-1/8"
46	74335610	-	2	2	CAPSCREW, drilled-hd., 3/8"NC x 1"
	70904206	-	4	4	LOCKWASHER, 3/8"
47	74509035	-	2	2	WIRE, locking, #18 x 10"
48	74373894	-	1	1	BRACKET, supporting, scavenging pump suction tube
49	74335600	-	1	1	CAPSCREW, drilled-hd., 5/16"NC x 7/8"
	70910335	-	2	2	WASHER, plain, SAE std., 5/16"
	70904205	-	1	1	LOCKWASHER, 5/16"
50	74348691	-	1	1	WIRE, locking, #18 x 6"
51	74348684	-	1	1	COVER, scavenging pump screen
52	74374129	-	2	2	CAPSCREW, drilled-hd., 5/16"NC x 3/4"
53	74509035	-	1	1	WIRE, locking, #18 x 10"
54	74348683	-	1	1	SCREEN, scavenging oil pump
55	74348682	-	1	1	RETAINER, scavenging oil pump screen
56	74372780	1	-	-	LOCK, oil pressure relief valve (Used prior to engine #81201)
57	74347938	1	1	1	LOCK, oil pressure relief valve (Effective with engine #81201)
58	74339204	1	1	1	VALVE ASSEMBLY, oil pressure relief (Consists of items 59 thru 63)
59	-----	1	1	1	BODY, oil pressure relief valve (Not serviced separately)
60	-----	1	1	1	PISTON, oil pressure relief valve (Not serviced separately)
61	-----	1	1	1	SPRING, oil pressure relief valve (2-57/64" long)(Original equipment. Order SPRING 74339193 and CAP 74339203)
	74339193	1	1	1	SPRING, oil pressure relief valve (3-3/64" long)(Service replacement)
62	74374564	1	1	1	WASHER, locking, relief valve cap
63	74386525	1	1	1	CAP, pressure relief valve body (Original equipment)
	74339203	1	1	1	CAP, pressure relief valve body (Used with service replacement SPRING 74339193 only)



FIRST TYPE

T-27472

SECOND TYPE

T-19597

PRESSURE OIL PUMP PARTS

USAGE: See page 77

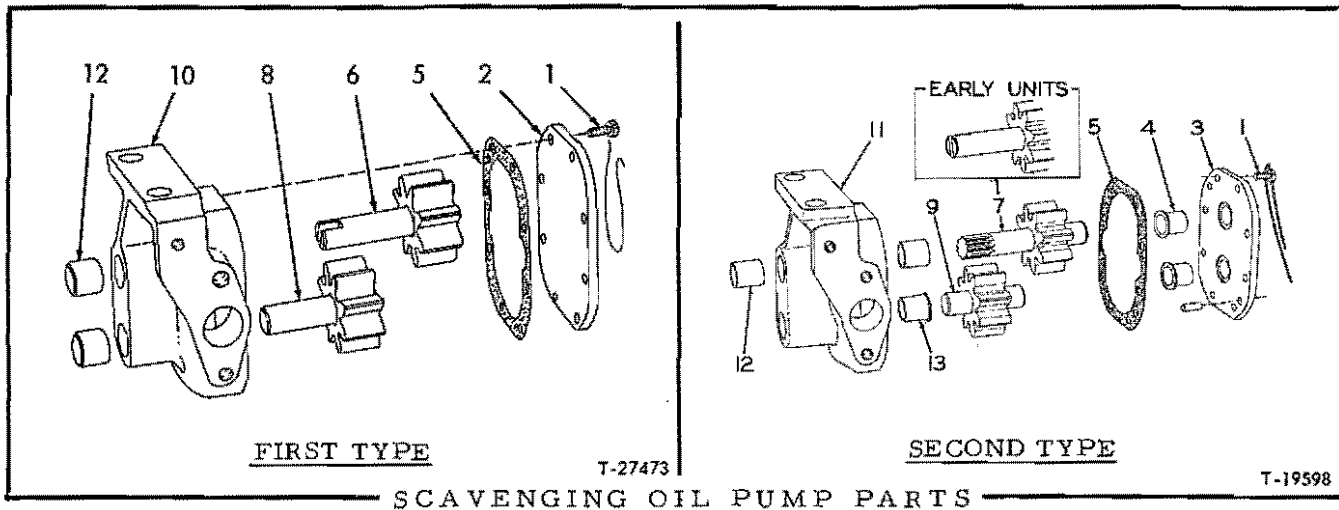
- * PUMP ASSEMBLY 74373707
- ** PUMP ASSEMBLY 74389941
- *** PUMP ASSEMBLY 74388954

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	74371937	1	-	-	GEAR, driving (Used prior to engine #83816)
	70900636	1	-	-	PIN, taper, #2 x 1-1/2"
	70910224	1	-	-	KEY, #6 woodruff, 5/32" x 5/8"
	74389054	1	1	1	GEAR, driving (Effective with engine #83816)
	70915989	1	1	1	PIN, roll, 3/16" x 1-3/8"
	70910224	1	1	1	KEY, #6 woodruff, 5/32" x 5/8"
2	74377056	8	8	8	CAPSCREW, pump cover
	74353538	4	4	4	WIRE, locking, 1/16" x 8"
3	74371270	1	1	1	BUSHING, pump cover (plain)
4	74373708	1	-	-	COVER ASSEMBLY (Includes item 3)
	70917555	2	-	-	PIN, dowel, 1/4" x 5/8"
5	74377037	-	1	1	COVER ASSEMBLY (Includes items 3 and 6)
	70917555	-	2	2	PIN, dowel, 1/4" x 5/8"
6	74377038	-	1	1	BUSHING, pump cover (flanged)
7	74371300	1	1	1	GASKET, cover
8	74373706	1	-	-	SHAFT AND GEAR ASSEMBLY, upper (If for engines prior to #83816 also order 1 GEAR 74375546 and 1 PIN 70915989)
9	74389939	-	1	-	SHAFT AND GEAR ASSEMBLY, upper
	74379414	-	-	1	SHAFT AND GEAR ASSEMBLY, upper
10	74371318	1	-	-	SHAFT AND GEAR ASSEMBLY, lower

(Continued)

PRESSURE OIL PUMP PARTS (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
11	74379444	-	1	-	SHAFT AND GEAR ASSEMBLY, lower
	74379415	-	-	1	SHAFT AND GEAR ASSEMBLY, lower
12	74371250	1	-	-	BODY ASSEMBLY (Includes item 14)
13	74376776	-	1	-	BODY ASSEMBLY(Includes items 14 and 15)
	74379411	-	-	1	BODY ASSEMBLY (Includes items 14 and 15)
14	74371270	3	2	2	BUSHING, pump body (plain)
15	74377039	-	1	1	BUSHING, pump body (flanged)



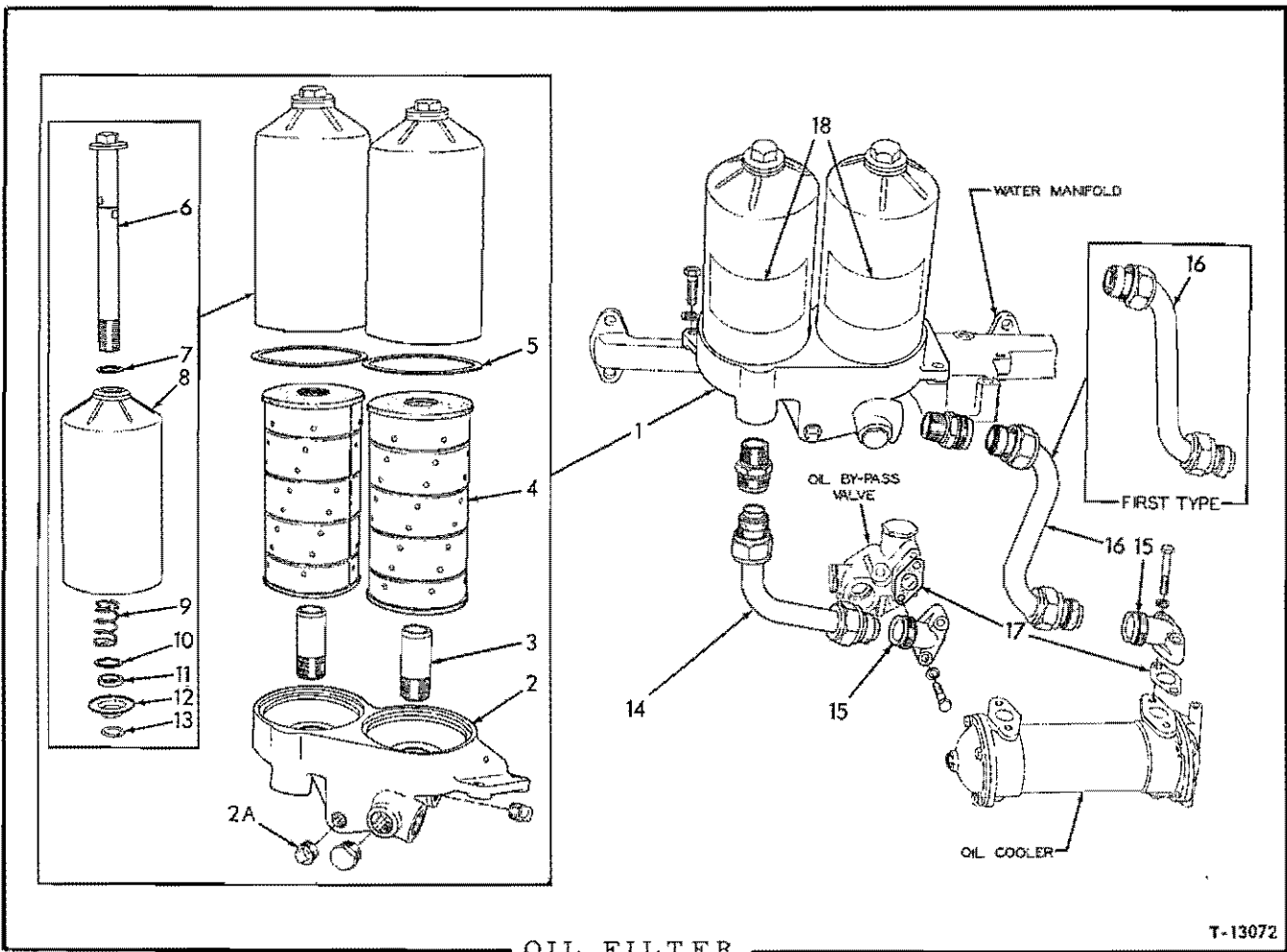
SCAVENGING OIL PUMP PARTS

USAGE: See page 77

* PUMP ASSEMBLY 74371297
 ** PUMP ASSEMBLY 74376829
 *** PUMP ASSEMBLY 74385971

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	74377056	8	8	8	CAPSCREW, pump cover
	74353538	4	4	4	WIRE, locking, 1/16" x 8"
2	74371252	1	-	-	COVER
3	74377050	-	1	1	COVER ASSEMBLY (Includes item 4)
4	74377039	-	2	2	BUSHING, pump cover
5	74371300	1	1	1	GASKET, pump cover
6	74371318	1	-	-	SHAFT AND GEAR ASSEMBLY, upper
7	74379443	-	1	-	SHAFT AND GEAR ASSEMBLY, upper
	74379610	-	-	1	SHAFT AND GEAR ASSEMBLY, upper
8	74371313	1	-	-	SHAFT AND GEAR ASSEMBLY, lower
9	74377054	-	1	1	SHAFT AND GEAR ASSEMBLY, lower
10	-----	1	-	-	BODY ASSEMBLY (Includes item 12) (Order BODY ASSEMBLY 74385973 and 1 BUSHING 74371270)
11	74385973	-	1	1	BODY ASSEMBLY (Includes items 12, 13 and PINS indented below)
	70917555	-	2	2	PIN, dowel, 1/4" x 5/8"
12	74371270	4	2	2	BUSHING, pump body (plain)
13	74377039	-	1	1	BUSHING, pump body (flanged)

MEMO



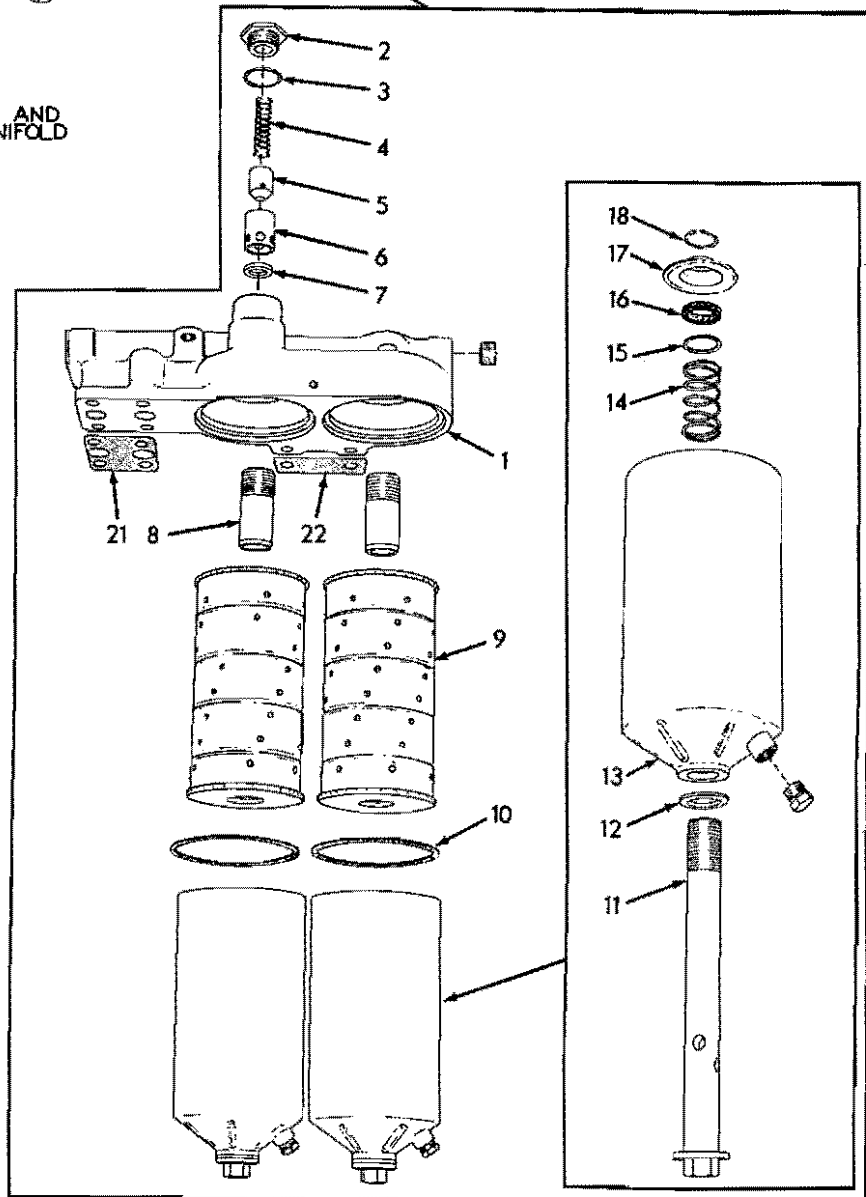
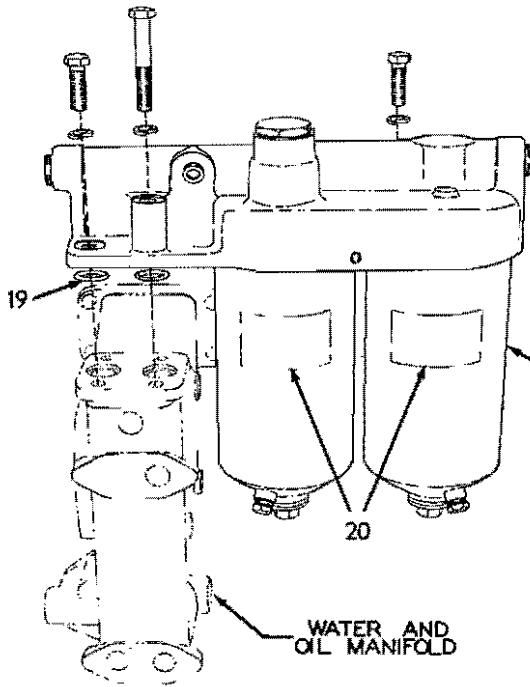
USAGE: Tractors prior to serial No. 4001

ITEM	PART NO.	QTY.	DESCRIPTION
1	74376143	1	FILTER ASSEMBLY, lubricating oil (Consists of items 2 thru 13)
	70904541	1	CAPSCREW, 1/2"NC x 1-3/4"
	70904208	1	LOCKWASHER, 1/2"
2	74376056	1	BASE, oil filter
	70920525	1	PLUG, pipe, hex-hd., 3/4"NPT
	70912725	1	PLUG, pipe, 1/2"NPT
2A	70921517	1	PLUG, pipe, 1/2"NPT (Dryseal)
3	74378307	2	ADAPTER, filter center bolt
4	74371021	2	ELEMENT KIT, oil filter (Includes item 5)
5	74372325	2	GASKET, oil filter body
6	74374735	2	BOLT, center
7	74041103	2	GASKET, filter center bolt
8	74371040	2	BODY, oil filter

(Continued)

OIL FILTER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
9	74371036	2	SPRING, filter element
10	74348268	2	WASHER, filter element seal
11	74348270	2	SEAL, filter element
12	74348269	2	ADAPTER, filter element
13	74253195	2	RING, snap, filter center bolt
14	74371405	1	LINE, oil filter to by-pass valve
	70917762	1	CONNECTOR, Sealastic, 1" tube, 1/2"NPT male
	70918566	2	NUT, Sealastic, 1" tube
	70915535	1	RING, Sealastic, 1" tube (Includes locking ferrule)
	70917770	1	RING, Sealastic, 1" tube (Includes slip ferrule)
15	74371399	2	ELBOW, line connecting
	70903633	4	CAPSCREW, 3/8"NC x 1-3/4"
	70904206	4	LOCKWASHER, 3/8"
16	74371404	1	LINE, oil filter to cooler (Used prior to engine #16-2743)
	74375664	1	LINE, oil filter to cooler (Effective with engine #16-2743)
	70917762	1	CONNECTOR, Sealastic, 1" tube, 1/2"NPT male
	70918566	2	NUT, Sealastic, 1" tube
	70915535	1	RING, Sealastic, 1" tube (Includes locking ferrule)
	70917770	1	RING, Sealastic, 1" tube (Includes slip ferrule)
17	74371027	2	□ GASKET, line connecting elbow
18	-----	-	TRANSFERS (See PAINTING AND MARKING)



OIL FILTER (Second type)

T-19652

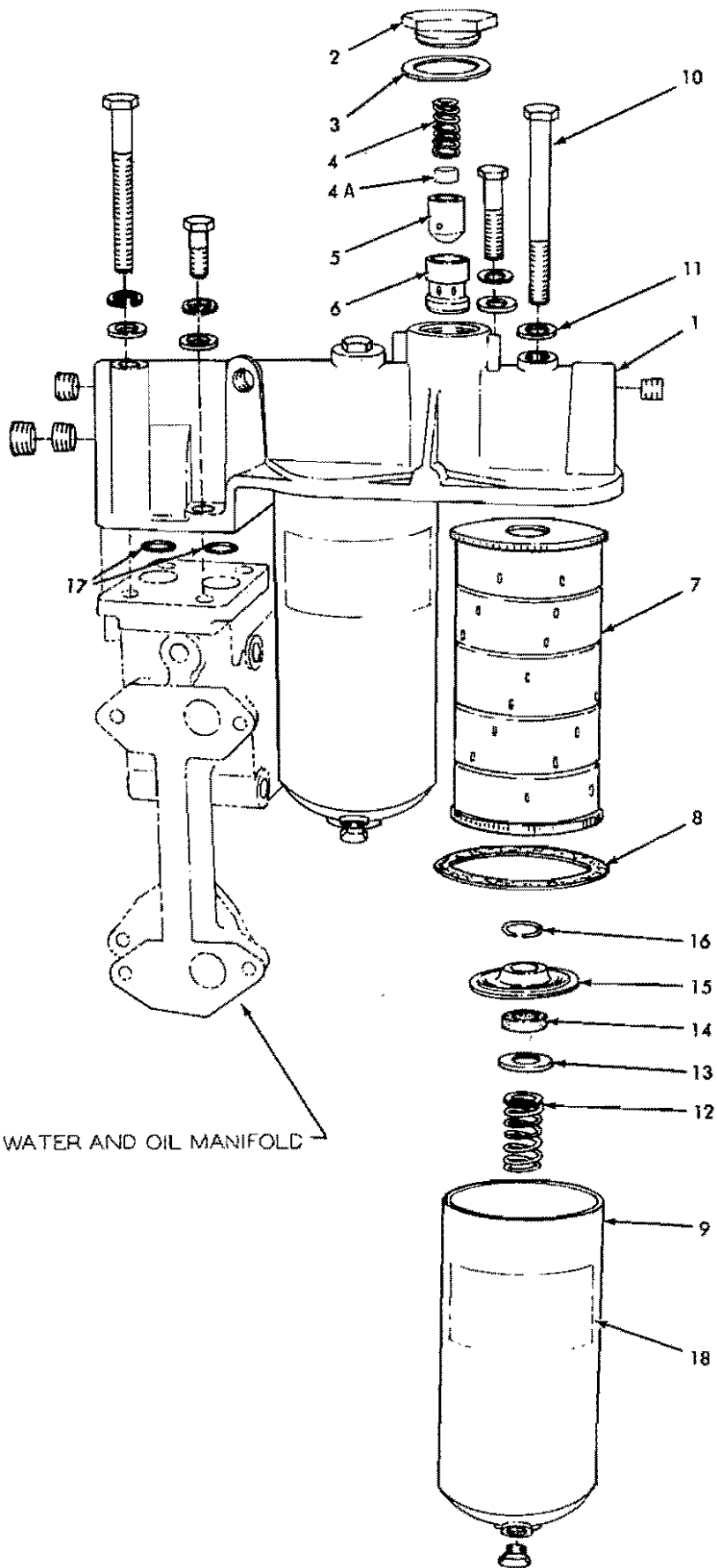
OIL FILTER

USAGE: Tractors serial No. 4001 and up. Original equipment. Also see page 87B for later design used on service replacement engines.

ITEM	PART NO.	QTY.	DESCRIPTION
1	74385543	1	HEAD ASSY. (Includes items 2 thru 8)
	70918851	2	PLUG, pipe, hex-socket, 3/4"NPT
	70918887	1	PLUG, pipe, hex-socket, 3/8"NPT
	70915987	4	CAPSCREW, 1/2"NC x 1-1/2"
	70915969	2	CAPSCREW, 1/2"NC x 3"
	70904208	6	LOCKWASHER, 1/2"
2	74373610	1	CAP, by-pass valve
3	74253751	1	GASKET, by-pass valve cap
4	74335666	1	SPRING, by-pass valve
5	74373613	1	PISTON, by-pass valve
6	74373612	1	SLEEVE, by-pass valve piston
7	74373614	1	SEAT, by-pass valve
8	74378307	2	ADAPTER, center bolt
9	74371021	2	ELEMENT KIT (Includes item 11)
10	74372325	2	GASKET, filter body
11	74374735	2	BOLT, center
12	74041103	2	GASKET, center bolt
13	74335352	2	BODY
	70918951	2	PLUG, pipe, hex-hd., 3/8"NPT
14	74371036	2	SPRING, element
15	74348268	2	WASHER, element seal
16	74348270	2	SEAL, element
17	74348269	2	ADAPTER, element
18	74253195	2	RING, snap, center bolt
19	74252761	2	□O-RING, filter to manifold
20	-----	-	TRANSFERS (See PAINTING AND MARKING)

NOTE: Following gaskets are used only when late type oil filter head is installed on older units. Not original equipment.

21	74388974	1	GASKET, filter head water and oil manifold
22	74388975	1	GASKET, shimming, filter head to water and oil manifold



WATER AND OIL MANIFOLD

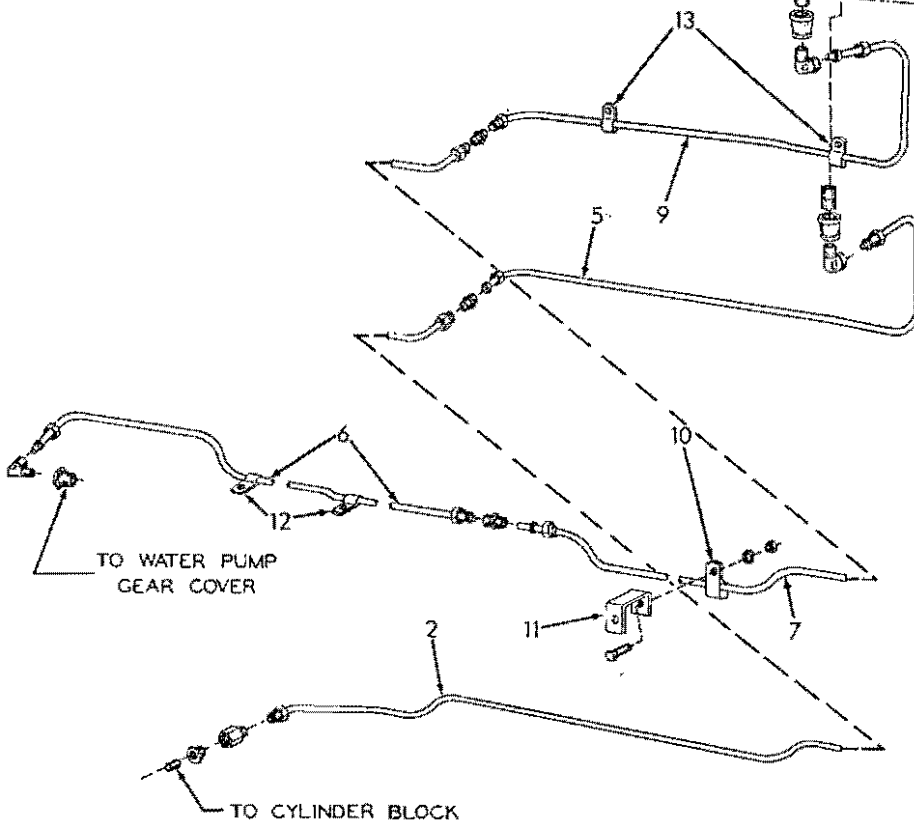
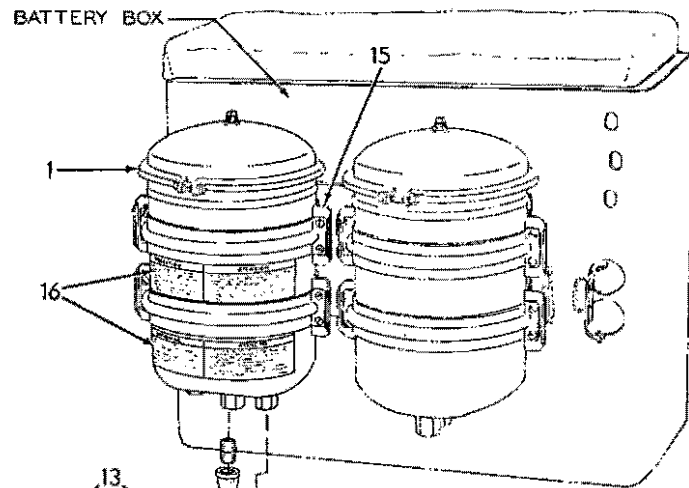
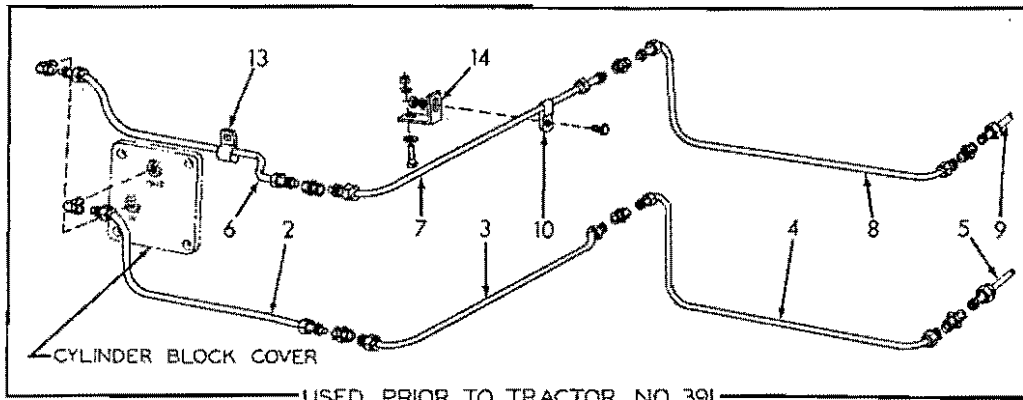
OIL FILTER (Third type)

T-70444

OIL FILTER

USAGE: Furnished on service replacement engines only. See page 87 for design used as original equipment.

ITEM	PART NO.	QTY.	DESCRIPTION
1	74391146	1	HEAD ASSY. (Includes items 2 thru 6; also PLUGS indented below)
	70918888	3	PLUG, pipe, hex-socket, 1"
	70918697	1	PLUG, pipe, hex-socket, 1-1/4"
	70916317	4	CAPSCREW, 1/2" NC x 2-3/4"
	70916323	2	CAPSCREW, 1/2" NC x 5-1/2"
	70904208	6	LOCKWASHER, 1/2"
	70912333	6	WASHER
2	74388810	1	CAP, by-pass valve
3	74388848	1	GASKET, by-pass valve cap
4	74335666	1	SPRING, by-pass valve
4A	74391038	1	SPACER, by-pass valve
5	74373613	1	PISTON, by-pass valve
6	74388809	1	SLEEVE, by-pass valve piston
7	74371021	2	ELEMENT KIT (Includes item 8)
8	74372325	2	GASKET, filter body
9	74339021	2	BODY
	70918951	2	PLUG, pipe, hex-hd., 3/8" NPT
10	74388836	2	CAPSCREW, body retaining
11	74376749	2	WASHER, sealing, body retaining capscrew
12	74379268	2	SPRING, element
13	74053410	2	WASHER, element seal
14	74053409	2	SEAL, element
15	74055971	2	ADAPTOR, element
16	74379269	2	RING, snap
17	70923718	2	O-RING, filter to manifold
18	-----	-	TRANSFER (See PAINTING AND MARKING)



HEAVY-DUTY OIL FILTER (First type. Models HD16A, AC, D, DC)

T-13136

HEAVY DUTY OIL FILTER

USAGE: Special equipment. Applicable to Models HD16A, AC, D, DC tractors prior to serial No. 4001. Supplements standard oil filter

* Tractors prior to serial No. 391
** Tractors serial No. 391 and up

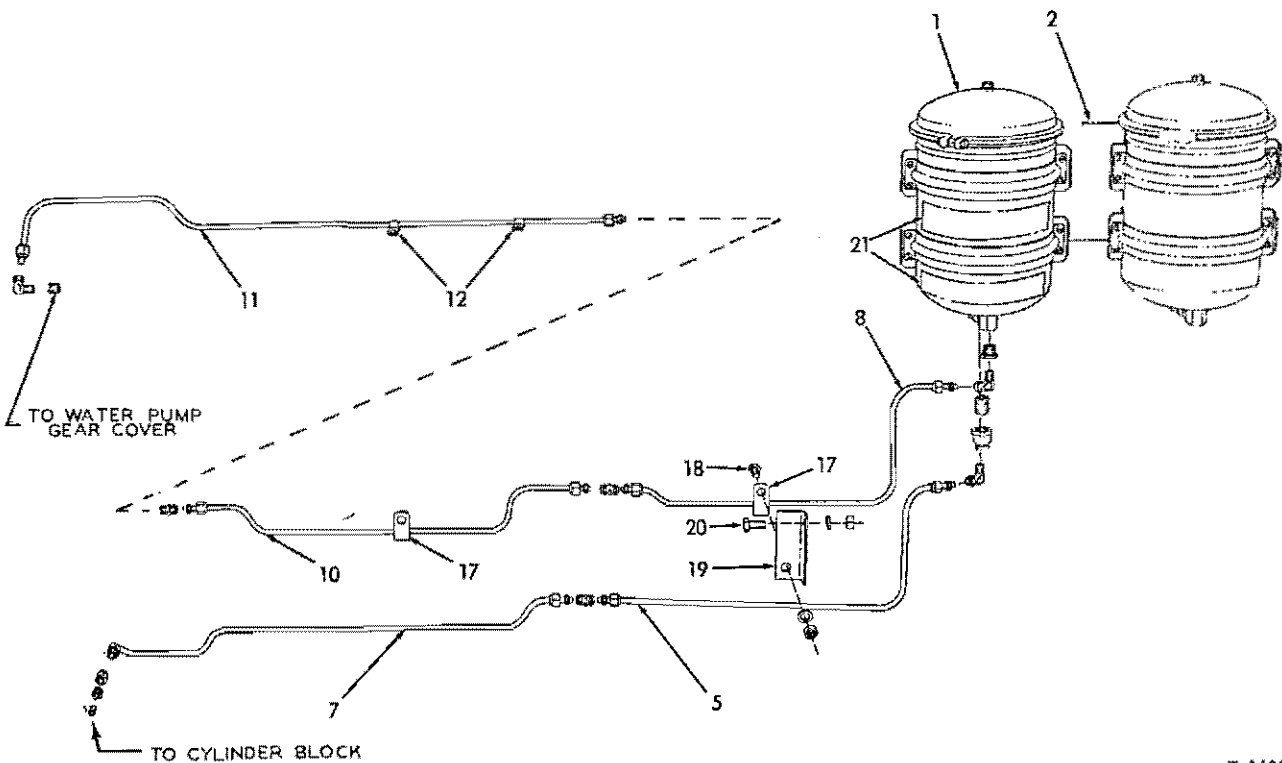
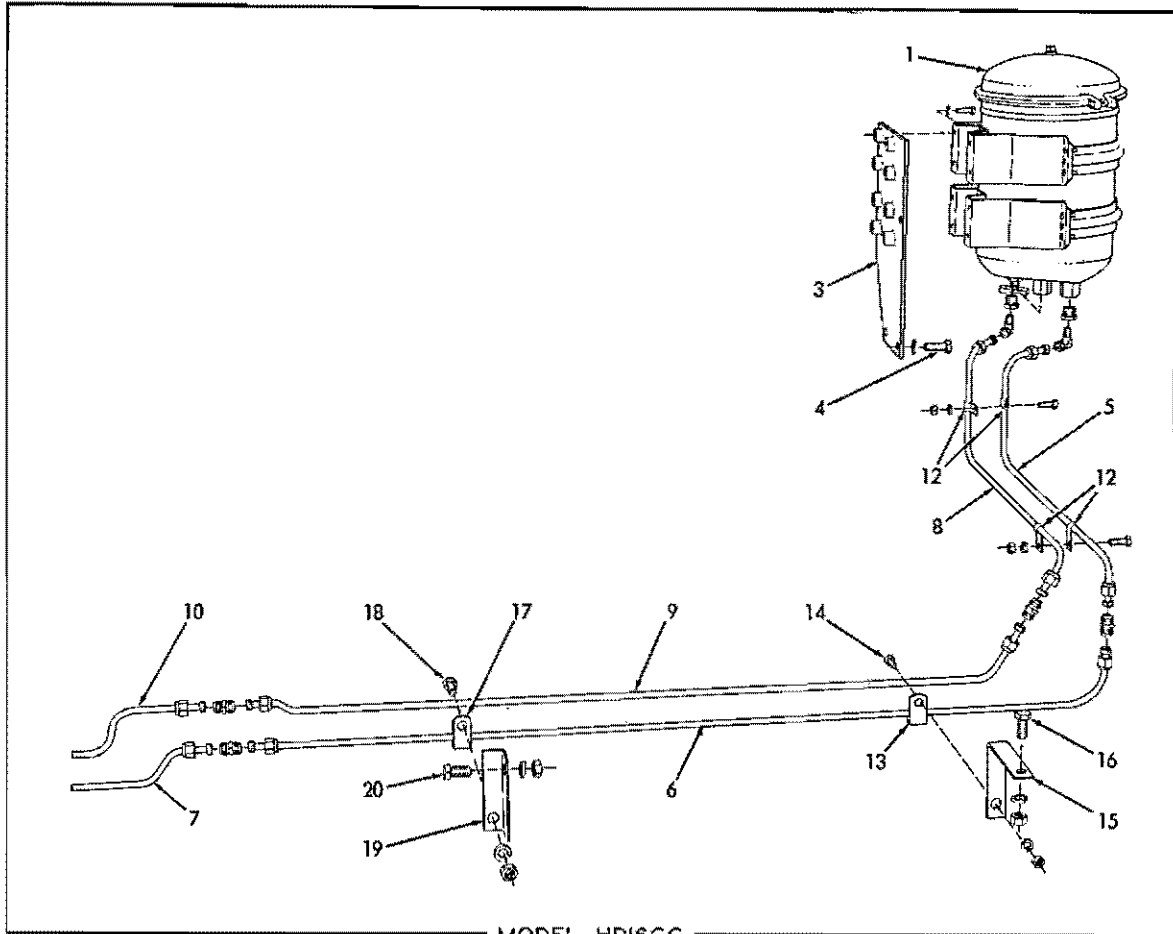
ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
1	70082442	1	1	FILTER ASSEMBLY, lubricating oil (See page 104 for parts)	
	70901501	2	-	NIPPLE, pipe, 1/2"NPT x 1-1/2"	
	70901500	-	2	NIPPLE, pipe, 1/2"NPT x 1-1/8"	
	70917772	2	2	COUPLING, pipe reducing, 1/2"NPT to 1/4"NPT	
	70911168	8	8	CAPSCREW, 5/16"NF x 7/8"	
	70904205	8	8	LOCKWASHER, 5/16"	
	70913636	8	8	NUT, 5/16"NF	
2	{	-----	1	-	TUBE, filter supply, front section (Use item 17 as req'd)
		70087101	-	1	TUBE, filter supply, front section
		70918325	2	2	NUT, Sealastic, 3/8" tube
		70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
		70915369	1	-	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male
		70901467	-	1	NIPPLE, pipe, 1/8"NPT x 3/4"
		70901825	-	1	BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT
		70915760	-	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT female
3	-----	1	-	TUBE, filter supply, intermediate front section (Use item 17 as req'd)	
		70918325	2	-	NUT, Sealastic, 3/8" tube
		70915367	2	-	RING, Sealastic, 3/8" tube (Includes ferrule)
		70915386	2	-	UNION, Sealastic, 3/8" tube
4	-----	1	-	TUBE, filter supply, intermediate rear section (Use item 17 as req'd)	
		70918325	2	-	NUT, Sealastic, 3/8" tube
		70915367	2	-	RING, Sealastic, 3/8" tube (Includes ferrule)
		70915386	1	-	UNION, Sealastic, 3/8" tube
5	70084119	1	1	TUBE, filter supply, rear section	
	70918325	2	2	NUT, Sealastic, 3/8" tube	
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)	
	70915369	1	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male	
	70915386	-	1	UNION, Sealastic, 3/8" tube	
6	{	-----	1	-	TUBE, filter return, front section (Use item 17 as req'd)
		70087102	-	1	TUBE, filter return, front section
		70918325	2	2	NUT, Sealastic, 3/8" tube
		70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
		70915369	1	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male
		70901826	-	1	BUSHING, pipe reducing, 3/8"NPT to 1/4"NPT (Used on early units only)
7	{	-----	1	-	TUBE, filter return, intermediate front section (Use item 17 as req'd)
		70087103	-	1	TUBE, filter return, intermediate section
		70918325	2	2	NUT, Sealastic, 3/8" tube
		70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
		70915386	2	2	UNION, Sealastic, 3/8" tube

(Continued)

HEAVY-DUTY OIL FILTER (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
8	-----	1 -	TUBE, filter return, intermediate rear section (Use item 17 as req'd)
	70918325	2 -	NUT, Sealastic, 3/8" tube
	70915367	2 -	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915386	1 -	UNION, Sealastic, 3/8" tube
9	70084118	1 1	TUBE, filter return, rear section
	70918325	2 2	NUT, Sealastic, 3/8" tube
	70915367	2 2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915369	1 1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male
10	70040811	1 1	CLIP, tube supporting (For two 3/8" diam. lines, 17/32" bolt-hole)
	70910319	- 1	CAPSCREW, 1/2"NF x 1" } Used on tractors not equipped with torque converter
	70904208	- 1	LOCKWASHER, 1/2" }
	70911043	- 1	NUT, 1/2"NF }
	70087228	- 1	BRACKET, clip supporting (Used prior to tractor #2508 excluding #2506. For use without torque converter. Has 9/16" bolt-hole)
11	70093239	- 1	BRACKET, clip supporting (Effective with tractor #2508 including #2506. For use without torque converter. Has 7/16" bolt-hole)
	70035979	- 1	CAPSCREW, 3/8"NF x 5/8"
	70904206	- 1	LOCKWASHER, 3/8"
12	70040796	- 2	CLIP, tube supporting (3/8" diam., 13/32" bolt-hole)
13	70055676	3 2	CLIP, tube supporting (For two 3/8" diam. lines, 13/32" bolt-hole)
	70912743	1 -	CAPSCREW, 3/8"NF x 5/8"
	70900817	1 -	WASHER, plain, U.S. std., 3/8"
	70911041	1 -	NUT, 3/8"NF
14	-----	1 -	BRACKET, tube supporting (Not serviced)
	70912185	1 -	CAPSCREW, 3/8"NF x 1-1/8"
	70900817	1 -	WASHER, plain, U.S. std., 3/8"
	70904206	1 -	LOCKWASHER, 3/8"
	70911041	1 -	NUT, 3/8"NF
15	-----	1 1	BRACKET, filter mounting (See HEAVY-DUTY FUEL FILTER)
16	-----	- -	TRANSFERS (See PAINTING AND MARKING)
17	70065053	- -	TUBING, copper, 3/8"O.D., 35 ft. roll (Use as req'd)(Not illustrated)

MEMO



T-16229

HEAVY-DUTY OIL FILTER

USAGE: Special equipment. Applicable to Models HD16FC, GC tractors prior to serial No. 4001. Supplements standard oil filter

* Model HD16FC
** Model HD16GC

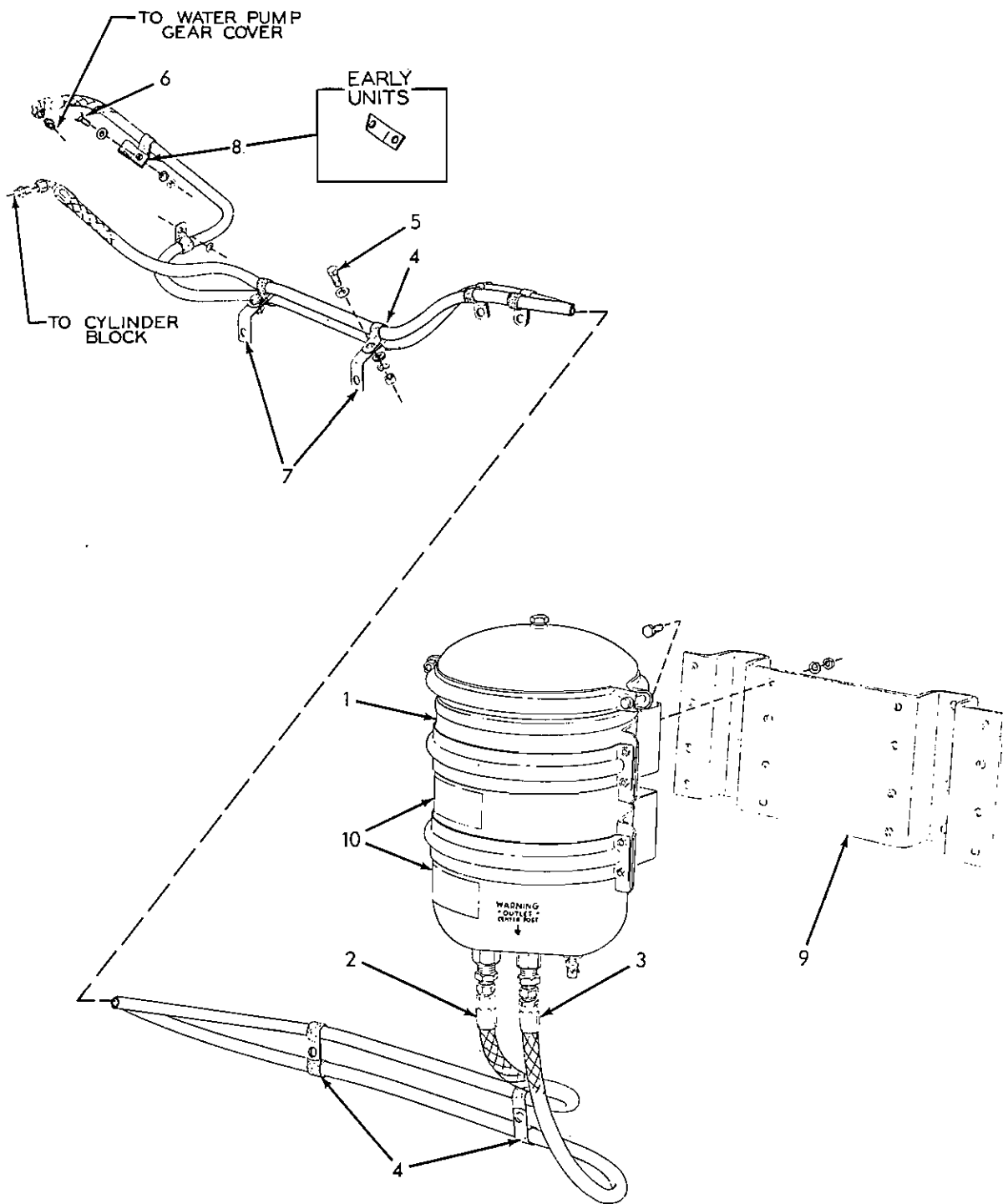
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70082442	1	1	FILTER ASSEMBLY, lubricating oil (See page 104 for parts)
	70911168	8	8	CAPSCREW, 5/16"NF x 7/8"
	70904205	8	8	LOCKWASHER, 5/16"
	70913636	8	-	NUT, 5/16"NF
2	-----	1	-	BRACKET, filter mounting (See HEAVY-DUTY FUEL FILTER)
3	70091819	-	1	BRACKET, filter mounting
4	70035525	-	4	CAPSCREW, 1/2"NF x 1-1/8"
	70904208	-	4	LOCKWASHER, 1/2"
5	70090041	1	-	TUBE, filter supply, rear section
	70091927	-	1	TUBE, filter supply, rear section
	70918325	2	2	NUT, Sealastic, 3/8" tube
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915369	1	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male
	70917772	1	-	COUPLING, pipe reducing, 1/2"NPT to 1/4"NPT
	70901500	1	-	NIPPLE, pipe, 1/2"NPT x 1-1/8"
	70901839	-	1	BUSHING, pipe reducing, 1/2"NPT to 1/4"NPT
6	70091933	-	1	TUBE, filter supply, center section
	70918325	-	2	NUT, Sealastic, 3/8" tube
	70915367	-	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915386	-	1	UNION, Sealastic, 3/8" tube
7	70090042	1	1	TUBE, filter supply, front section
	70918325	2	2	NUT, Sealastic, 3/8" tube
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915386	1	1	UNION, Sealastic, 3/8" tube
	70915760	1	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT female
	70901825	1	1	BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT
	70901467	1	1	NIPPLE, pipe, 1/8"NPT x 3/4"
8	70090038	1	-	TUBE, filter return, rear section
	70091928	-	1	TUBE, filter return, rear section
	70918325	2	2	NUT, Sealastic, 3/8" tube
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915369	1	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male
	70901839	1	1	BUSHING, pipe reducing, 1/2"NPT to 1/4"NPT
9	70091934	-	1	TUBE, filter return, intermediate rear section
	70918325	-	2	NUT, Sealastic, 3/8" tube
	70915367	-	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915386	-	1	UNION, Sealastic, 3/8" tube
10	70090039	1	1	TUBE, filter return, intermediate front section
	70918325	2	2	NUT, Sealastic, 3/8" tube
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915386	1	1	UNION, Sealastic, 3/8" tube

(Continued)

HEAVY-DUTY OIL FILTER (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
11	70091053	1	1	TUBE, filter return, front section
	70918325	2	2	NUT, Sealastic, 3/8" tube
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915386	1	1	UNION, Sealastic, 3/8" tube
	70915369	1	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male
	70901826	1	1	BUSHING, pipe reducing, 3/8"NPT to 1/4"NPT (Used on early units only)
12	70040796	2	6	CLIP, tube supporting (3/8" diam., 13/32" bolt-hole)
	70910922	-	2	CAPSCREW, 3/8"NF x 3/4"
	70904206	-	2	LOCKWASHER, 3/8"
	70911041	-	2	NUT, 3/8"NF
13	70042672	-	1	CLIP, tube supporting (For two 3/8" diam. tubes, 7/16" bolt-hole)
14	70036032	-	1	CAPSCREW, 3/8"NF x 3/4"
	70904206	-	1	LOCKWASHER, 3/8"
	70911041	-	1	NUT, 3/8"NF
15	70091492	-	1	ANGLE, clip supporting
16	70070467	-	1	CAPSCREW, 1/2"NF x 1"
	70904208	-	1	LOCKWASHER, 1/2"
	70911043	-	1	NUT, 1/2"NF
17	70040811	2	2	CLIP, tube supporting (For two 3/8" diam. tubes, 17/32" bolt-hole)
18	70070467	1	1	CAPSCREW, 1/2"NF x 1"
	70904208	1	1	LOCKWASHER, 1/2"
	70911043	1	1	NUT, 1/2"NF
19	70090043	1	1	ANGLE, clip supporting
20	70070467	1	1	CAPSCREW, 1/2"NF x 1"
	70904208	1	1	LOCKWASHER, 1/2"
	70911043	1	1	NUT, 1/2"NF
21	-----	-	-	TRANSFERS (See PAINTING AND MARKING)

MEMO



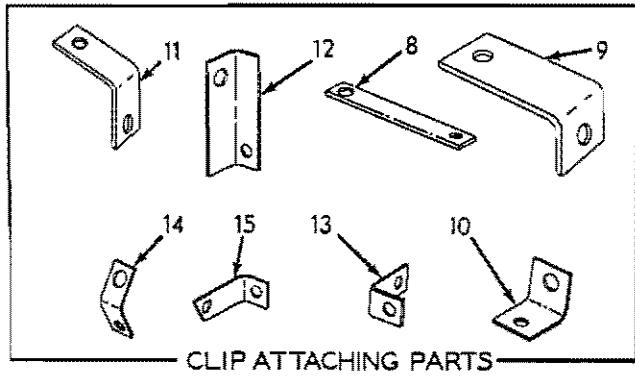
HEAVY-DUTY OIL FILTER (Second type. Model HD16A, AC, D, DC)

T-22590

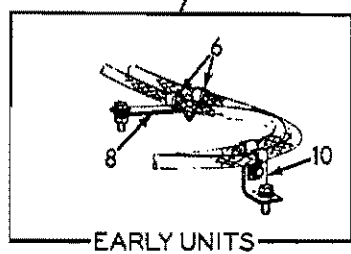
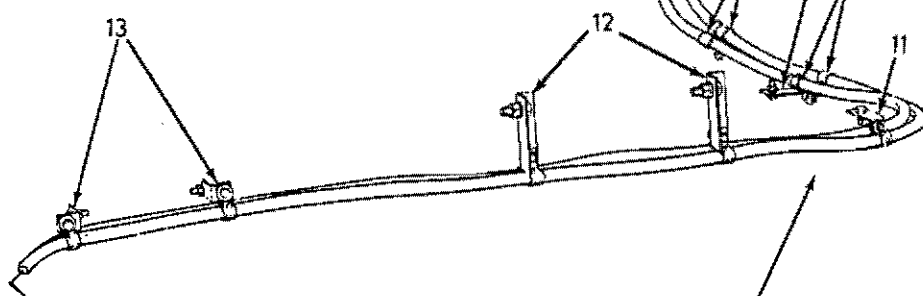
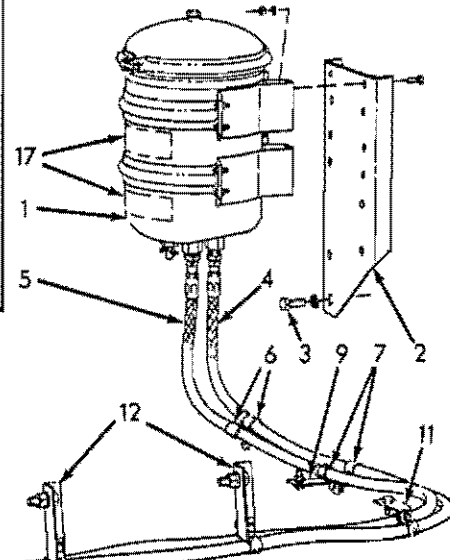
HEAVY-DUTY OIL FILTER

USAGE: Special equipment. Applicable to Models HD16A, AC, D, DC tractors serial No. 4001 and up. Supplements standard oil filter

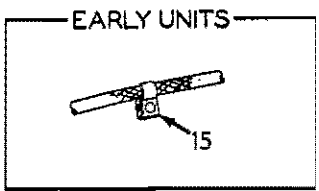
ITEM	PART NO.	QTY.	DESCRIPTION
1	70082442	1	FILTER ASSEMBLY, lubricating oil (See page 104 for parts)
	70911168	8	CAPSCREW, 5/16"NF x 7/8"
	70904205	8	LOCKWASHER, 5/16"
	70913636	8	NUT, 5/16"NF
2	70097655	1	HOSE ASSEMBLY, filter supply (See HOSE PARTS)
	70919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
	70919127	1	CONNECTOR, flare type, 3/8" tube, 1/2"NPT male
3	70097656	1	HOSE ASSEMBLY, filter return (See HOSE PARTS)
	70919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
	70919127	1	CONNECTOR, flare type, 3/8" tube, 1/2"NPT male
4	70094422	14	CLIP, hose supporting
5	70036034	2	CAPSCREW, 3/8"NF x 1"
6	70035167	1	CAPSCREW, 3/8"NF x 7/8"
	70911115	5	WASHER, plain, SAE std., 3/8"
	70904206	3	LOCKWASHER, 3/8"
	70911041	3	NUT, 3/8"NF
7	70096935	2	ANGLE, clip attaching (Attached to cylinder block)
8	70094580	1	ANGLE, clip attaching (Attached to water pump)(Used prior to tractor #5418)
	70615902	1	CLIP, hose supporting (Attached to water by-pass tube)(Effective with tractor #5418)
9	-----	1	BRACKET, filter mounting (See HEAVY-DUTY FUEL FILTER)
10	-----	-	TRANSFERS (See PAINTING AND MARKING)



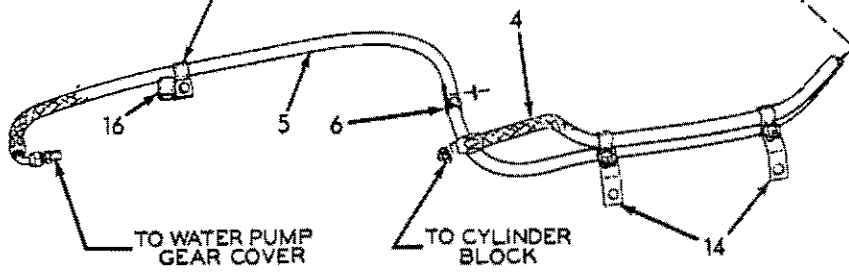
CLIP ATTACHING PARTS



EARLY UNITS



EARLY UNITS



TO WATER PUMP GEAR COVER

TO CYLINDER BLOCK

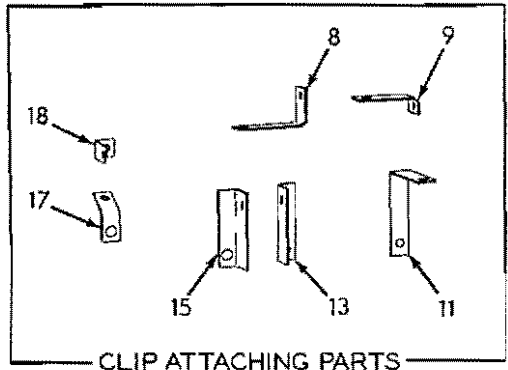
HEAVY-DUTY OIL FILTER

USAGE: Special equipment. Applicable to Model HD16FC tractors serial No. 4001 and up.
Supplements standard oil filter

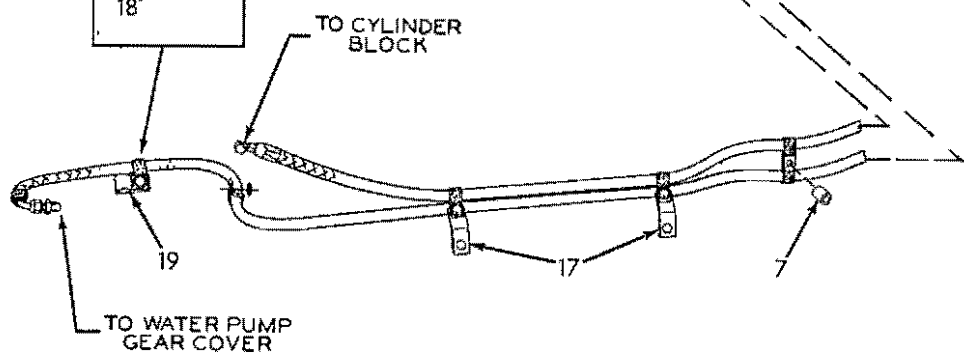
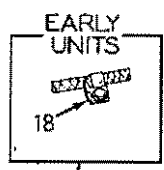
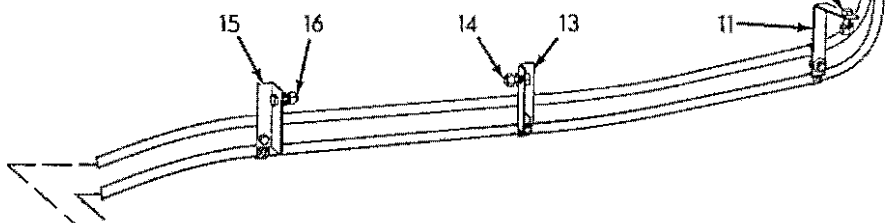
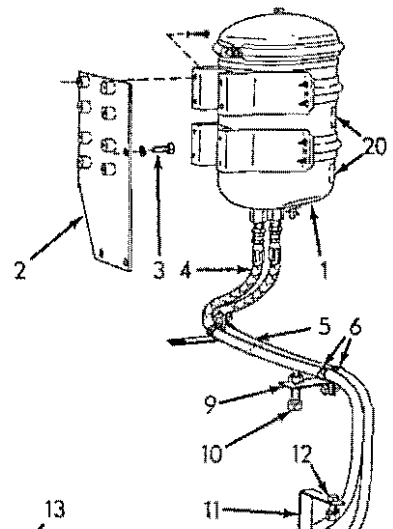
* Tractors prior to serial No. 5154
** Tractors serial No. 5154 and up

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70082442	1	1	FILTER ASSEMBLY, lubricating oil (See page 104 for parts)
	70911168	8	8	CAPSCREW, 5/16"NF x 7/8"
	70904205	8	8	LOCKWASHER, 5/16"
	70913636	8	8	NUT, 5/16"NF
2	70094956	1	1	BRACKET, filter mounting
3	70035061	4	4	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	4	4	LOCKWASHER, 1/2"
4	70097656	1	-	HOSE ASSEMBLY, filter supply (See HOSE PARTS)
	70624391	-	1	HOSE ASSEMBLY, filter supply (See HOSE PARTS)
	70919127	1	1	CONNECTOR, flare type, 3/8" tube, 1/2"NPT male
	70919062	1	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
5	70097649	1	-	HOSE ASSEMBLY, filter return (See page 6 for parts)
	70624392	-	1	HOSE ASSEMBLY, filter return (See page 6 for parts)
	70919127	1	1	CONNECTOR, flare type, 3/8" tube, 1/2"NPT male
	70919062	1	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
6	70094422	18	18	CLIP, hose supporting (21/32" diam., 13/32" bolt-hole)
	70036034	9	8	CAPSCREW, 3/8"NF x 1"
	70036039	-	1	CAPSCREW, 3/8"NF x 1-3/8"
	70911115	17	17	WASHER, plain, SAE std., 3/8"
	70904206	9	9	LOCKWASHER, 3/8"
	70911041	9	8	NUT, 3/8"NF
7	70094467	-	2	CLIP, hose supporting (3/4" diam., 13/32" bolt-hole)
	70036034	-	1	CAPSCREW, 3/8"NF x 1"
	70911115	-	2	WASHER, plain, SAE std., 3/8"
	70904206	-	1	LOCKWASHER, 3/8"
	70911041	-	1	NUT, 3/8"NF
8	70094957	1	-	PLATE, clip attaching
	70614478	1	-	CAPSCREW, 1/2"NF x 1-3/8"
	70064531	1	-	WASHER, plain
	70904208	1	-	LOCKWASHER, 1/2"
	70911043	1	-	NUT, 1/2"NF
9	70094903	-	1	ANGLE, clip attaching
	70023465	-	1	CAPSCREW, 5/8"NF x 1-3/4"
	70904209	-	1	LOCKWASHER, 5/8"
	70911044	-	1	NUT, 5/8"NF
10	70088350	1	-	ANGLE, clip attaching (Attached to steering clutch housing)
	70035525	1	-	CAPSCREW, 1/2"NF x 1-1/8"
	70904208	1	-	LOCKWASHER, 1/2"
11	70624393	-	1	ANGLE, clip attaching (Attached to floor channel)
	70070467	-	1	CAPSCREW, 1/2"NF x 1"
	70904208	-	1	LOCKWASHER, 1/2"
	70911043	-	1	NUT, 1/2"NF

(Continued)



CLIP ATTACHING PARTS



HEAVY-DUTY OIL FILTER (Second type. Model HD16GC)

T-22592

HEAVY-DUTY OIL FILTER (Continued)

USAGE: Special equipment. Applicable to Model HD16FC tractors serial No. 4001 and up.
Supplements standard oil filter

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
12	70094668	2	2	ANGLE, clip attaching (Attached to floor channels)
	70070469	2	2	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	2	2	LOCKWASHER, 1/2"
	70911043	2	2	NUT, 1/2"NF
13	70094839	2	2	ANGLE, clip attaching (Attached to cowl)
	70036034	2	2	CAPSCREW, 3/8"NF x 1"
	70904206	2	2	LOCKWASHER, 3/8"
	70911041	2	2	NUT, 3/8"NF
14	70096935	2	2	ANGLE, clip attaching (Attached to cylinder block)
15	70094580	1	1	ANGLE, clip attaching (Attached to water pump) (Used prior to tractor #5418)
16	70615902	-	1	CLIP, hose supporting (Attached to water by-pass tube) (Effective with tractor #5418)
17	-----	-	-	TRANSFERS (See PAINTING AND MARKING)

HEAVY-DUTY OIL FILTER

USAGE: Special equipment. Applicable to Model HD16GC tractors serial No. 4001 and up.
Supplements standard oil filter

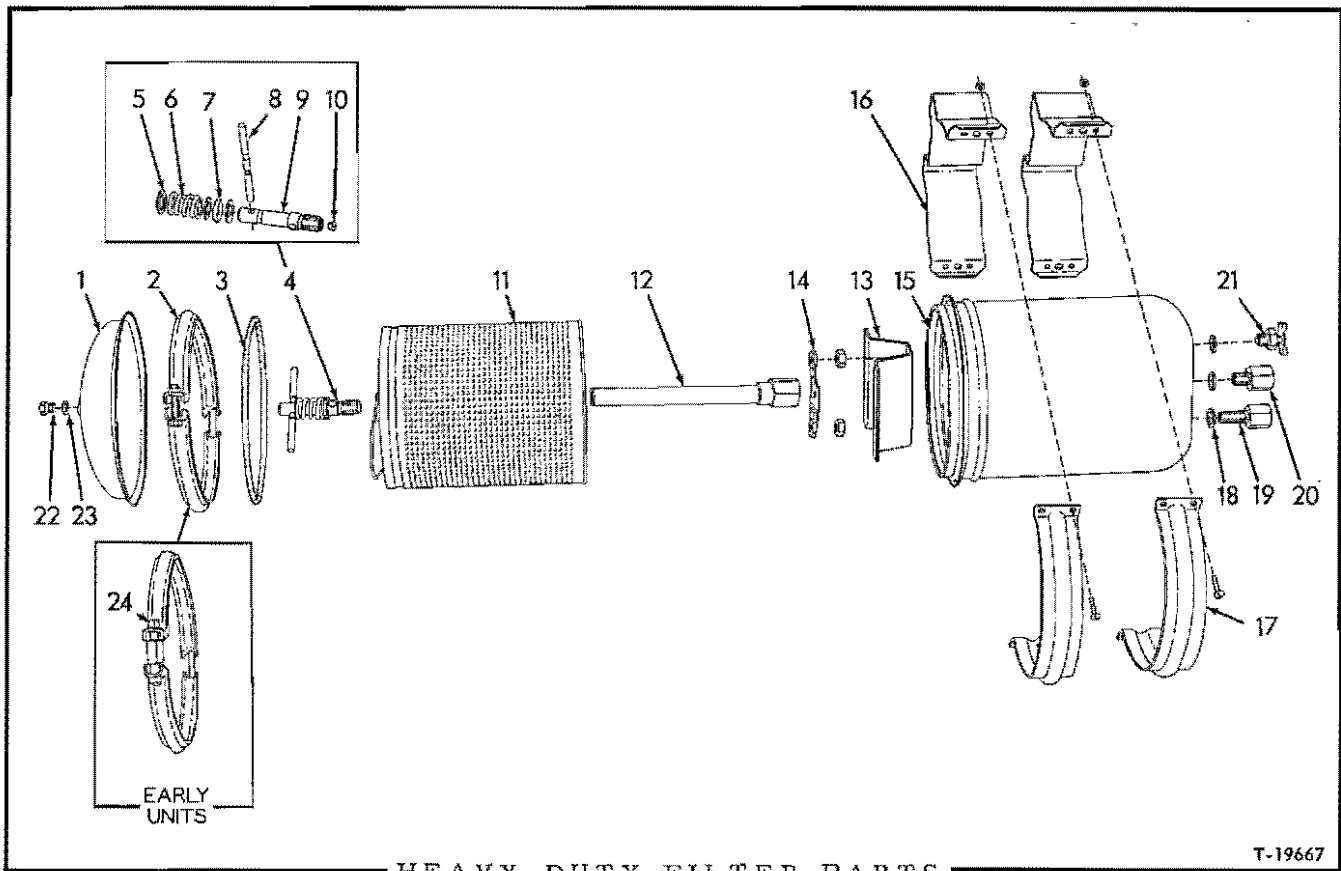
ITEM	PART NO.	QTY.	DESCRIPTION
1	70082442	1	FILTER ASSEMBLY, lubricating oil (See page 104 for parts)
	70911168	8	CAPSCREW, 5/16"NF x 7/8"
	70904205	8	LOCKWASHER, 5/16"
2	70091819	1	BRACKET, filter mounting
3	70035525	4	CAPSCREW, 1/2"NF x 1-1/8"
	70904208	4	LOCKWASHER, 1/2"
4	70097654	1	HOSE ASSEMBLY, filter supply (See HOSE PARTS) (Used prior to tractor #5154)
	70624172	1	HOSE ASSEMBLY, filter supply (See HOSE PARTS) (Effective with tractor #5154)
	70919127	1	CONNECTOR, flare type, 3/8" tube, 1/2"NPT male
	70919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
5	70097653	1	HOSE ASSEMBLY, filter return (See HOSE PARTS) (Used prior to tractor #5154)
	70624171	1	HOSE ASSEMBLY, filter return (See HOSE PARTS) (Effective with tractor #5154)
	70919127	1	CONNECTOR, flare type, 3/8" tube, 1/2"NPT male
	70919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male

(Continued)

HEAVY-DUTY OIL FILTER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
6	70094422	18	CLIP, hose supporting
	70036034	8	CAPSCREW, 3/8"NF x 1"
	70914339	1	CAPSCREW, 3/8"NF x 2-3/4"
	70911115	12	WASHER, plain, SAE std., 3/8"
	70904206	9	LOCKWASHER, 3/8"
	70911041	8	NUT, 3/8"NF
7	70094756	1	BLOCK, clip spacing
8	70094961	1	ANGLE, clip attaching (Attached to hydraulic tank)
9	70094903	1	ANGLE, clip attaching (Attached to fuel tank channel)
10	70023465	1	CAPSCREW, 5/8"NF x 1-3/4"
	70904209	1	LOCKWASHER, 5/8"
	70911044	1	NUT, 5/8"NF
11	70091492	1	ANGLE, clip attaching (Attached to rear floor channel)
12	70070469	1	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
13	70094668	1	ANGLE, clip attaching (Attached to intermediate floor channel)
14	70070469	1	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
15	70090043	1	ANGLE, clip attaching (Attached to front floor channel)
16	70070469	1	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
17	70096935	2	ANGLE, clip attaching (Attached to cylinder block)
18	70094580	1	ANGLE, clip attaching (Attached to water pump) (Used prior to tractor #5418)
19	70615902	1	CLIP, hose supporting (Attached to water by-pass tube) (Effective with tractor #5418)
20	-----	-	TRANSFERS (See PAINTING AND MARKING)

MEMO



HEAVY-DUTY FILTER PARTS

T-19667

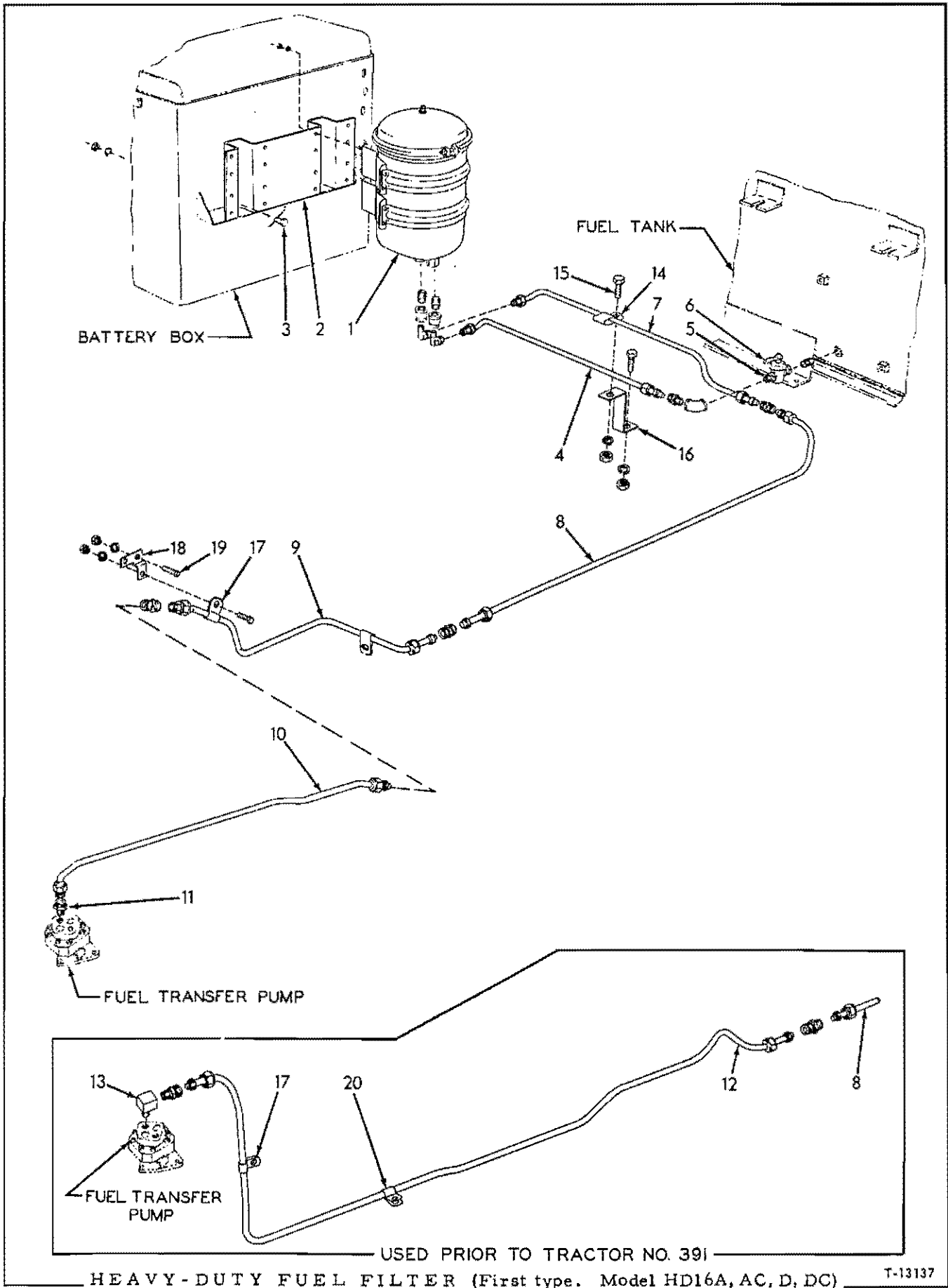
* 70082441 FILTER ASSEMBLY, fuel (See pages 107 thru 117)
 ** 70082442 FILTER ASSEMBLY, oil (See pages 89 thru 101)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70082505	1	1	COVER
2	70630540	1	1	RING ASSEMBLY, cover retaining
3	70082449	1	1	GASKET, cover
4	70082492	1	-	HOLD-DOWN ASSEMBLY, filter element (Includes items 5 thru 9)
	70082493	-	1	HOLD-DOWN ASSEMBLY, filter element (Includes items 5 thru 10)
5	70082489	3	3	WASHER, element hold-down
6	70082490	1	1	SPRING, element hold-down
7	70082487	1	1	SEAL, element hold-down
8	70082488	1	1	HANDLE, element hold-down
9	-----	1	1	STUD, element hold-down (Not serviced separately)
10	70082491	-	1	PLUG, orifice, element hold-down
11	70091540	1	1	ELEMENT, filtering (Original equipment)
	70637957	1	1	ELEMENT, filtering (Optional)

(Continued)

HEAVY-DUTY FILTER PARTS (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
12	70076668	1	1	TUBE ASSEMBLY, outlet (Includes nut)
13	70096816	1	1	SUPPORT, filter element
	70911049	2	2	NUT, jam, 5/8"NF
14	70096815	1	1	RETAINER, element support nut
15	-----	1	1	HOUSING (Not serviced separately)
16	70082444	2	2	BRACKET, mounting
17	70082443	2	2	BAND, mounting bracket
	70900576	8	8	SCREW, machine, 1/4"NC x 3/4"
	70911024	8	8	NUT, 1/4"NC
18	70063891	3	3	GASKET
19	70063890	-	1	VALVE ASSEMBLY, inlet check (Includes 1 spring, 1 ring, 1 cup. Serviced only as a unit)
	70063889	1	-	BOLT, hollow
20	70080758	-	1	VALVE ASSEMBLY, outlet check (Includes 1 spring, 1 ring, 1 cup. Serviced only as a unit)
	70063889	1	-	BOLT, hollow
21	70094167	1	1	COCK, drain
22	70084897	1	1	PLUG, venting
23	70084899	1	1	WASHER, venting plug
24	70098038	1	1	BOLT ASSEMBLY, cover retaining ring (Includes nuts)(Early units only)



USED PRIOR TO TRACTOR NO. 391
 HEAVY-DUTY FUEL FILTER (First type. Model HD16A, AC, D, DC)

T-13137

HEAVY-DUTY FUEL FILTER

USAGE: Special equipment. Applicable to Models HD16A, AC, D, DC tractors prior to serial No. 4001. Replaces standard first stage fuel filter

* Tractors prior to serial No. 391
 ** Tractors serial No. 391 and up

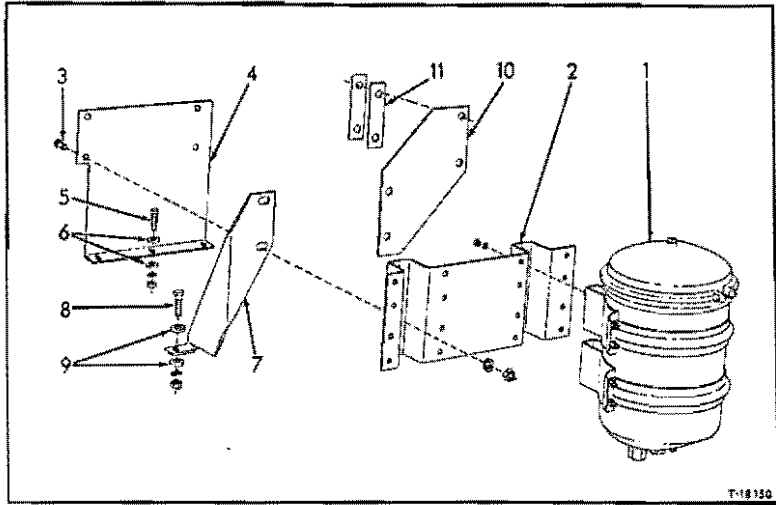
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70082441	1	1	FILTER ASSEMBLY, fuel (See page 104 for parts)
	70911168	8	8	CAPSCREW, 5/16"NF x 7/8"
	70904205	8	8	LOCKWASHER, 5/16"
	70913636	8	8	NUT, 5/16"NF
	70901501	2	-	NIPPLE, pipe, 1/2"NPT x 1-1/2"
	70901500	-	2	NIPPLE, pipe, 1/2"NPT x 1-1/8"
	70904227	2	2	COUPLING, pipe reducing, 1/2"NPT to 3/8"NPT
2	70080459	1	1	BRACKET, filter mounting
3	70070467	4	4	CAPSCREW, 1/2"NF x 1"
	70904208	4	4	LOCKWASHER, 1/2"
	70911043	4	4	NUT, 1/2"NF
4	70084004	1	1	TUBE, tank to filter
	70918564	2	2	NUT, Sealastic, 1/2" tube
	70915377	2	2	RING, Sealastic, 1/2" tube (Includes ferrule)
	70915380	1	1	ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male
	70915378	1	1	CONNECTOR, Sealastic, 1/2" tube, 3/8"NPT male
5	70092727	1	1	COCK, fuel shut-off (3/8"NPT male and female. Includes item 6)
	70901489	1	1	NIPPLE, pipe, 3/8"NPT x 1"
	70901678	1	1	ELBOW, pipe, 90°, 3/8"NPT
6	70082189	1	1	HANDLE, fuel shut-off cock
7	70084006	1	1	TUBE, filter to transfer pump, rear section
	70918564	2	2	NUT, Sealastic, 1/2" tube
	70915377	2	2	RING, Sealastic, 1/2" tube (Includes ferrule)
	70915380	1	1	ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male
8	70084011	1	1	TUBE, filter to transfer pump, intermediate rear section
	70918564	2	2	NUT, Sealastic, 1/2" tube
	70915377	2	2	RING, Sealastic, 1/2" tube (Includes ferrule)
	70915379	2	2	UNION, Sealastic, 1/2" tube
9	70086978	-	1	TUBE, filter to transfer pump, intermediate front section
	70918564	-	2	NUT, Sealastic, 1/2" tube
	70915377	-	2	RING, Sealastic, 1/2" tube (Includes ferrule)
	70915379	-	1	UNION, Sealastic, 1/2" tube
10	74372728	-	1	LINE, filter to transfer pump
	70918564	-	2	NUT, Sealastic, 1/2" tube
	70915377	-	2	RING, Sealastic, 1/2" tube (Includes ferrule)
11	74254098	-	1	CONNECTOR, fuel line (Sealastic, 1/2" tube, 1/4"NPT male)
12	-----	1	-	TUBE, filter to transfer pump, front section (Use item 21 as req'd)
	70918564	2	-	NUT, Sealastic, 1/2" tube
	70915377	2	-	RING, Sealastic, 1/2" tube (Includes ferrule)
	70915378	1	-	CONNECTOR, Sealastic, 1/2" tube, 3/8"NPT male

(Continued)

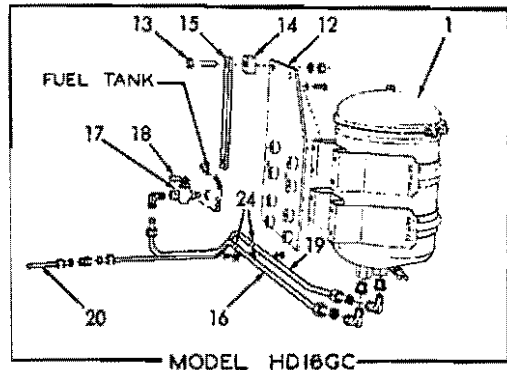
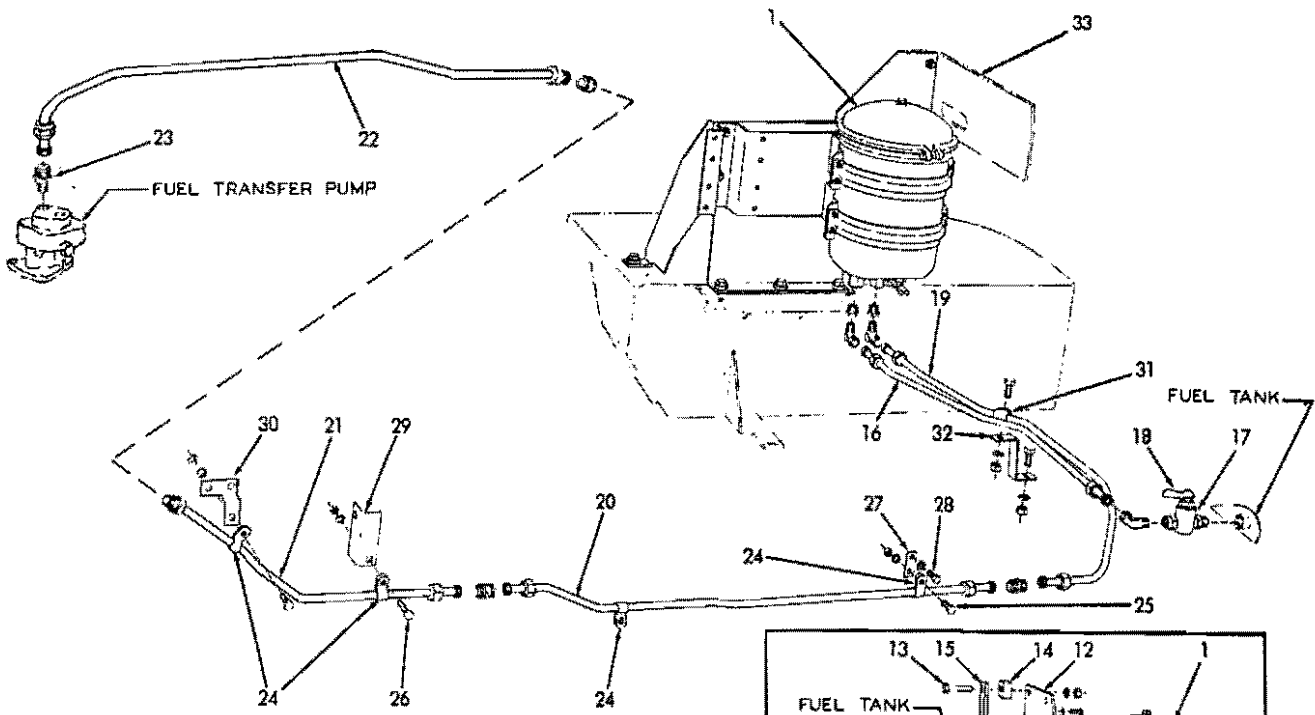
HEAVY-DUTY FUEL FILTER (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
13	70073068	1 -	ELBOW, fuel line (90°, 3/8"NPT female, 1/4"NPT male)
14	70060660	1 1	CLIP, tube supporting (For two 1/2" diam. lines, 17/32" bolt-hole)
15	70035067	1 -	CAPSCREW, 1/2"NF x 2"
	70910319	- 1	CAPSCREW, 1/2"NF x 1"
	70904208	1 1	LOCKWASHER, 1/2"
	70911043	1 1	NUT, 1/2"NF
16	70065785	1 -	BLOCK, clip spacing (1" long)
	70087317	- 1	BRACKET, clip supporting
	70910319	- 1	CAPSCREW, 1/2"NF x 1"
	70904208	- 1	LOCKWASHER, 1/2"
	70911043	- 1	NUT, 1/2"NF
17	70091046	1 1	CLIP, tube supporting (1/2" diam., 7/16" bolt-hole)
	70910922	- 1	CAPSCREW, 3/8"NF x 3/4"
	70904206	- 1	LOCKWASHER, 3/8"
	70911041	- 1	NUT, 3/8"NF
18	70086982	- 1	BRACKET, tube supporting clip
19	70036034	- 2	CAPSCREW, 3/8"NF x 1"
	70904206	- 2	LOCKWASHER, 3/8"
	70911041	- 2	NUT, 3/8"NF
20	70048145	1 -	CLIP, tube supporting (1/2" diam., 17/32" bolt-hole)
21	70065021	- -	TUBING, copper, 1/2"O.D., 18 ft roll (Use as req'd)(Not illustrated)

MEMO



T-18150



MODEL HD16GC

HEAVY-DUTY FUEL FILTER (First type. Model HD16FC, GC)

T-18074

HEAVY-DUTY FUEL FILTER

USAGE: Special equipment. Applicable to Models HD16FC, GC tractors prior to serial No. 4001.
Replaces standard first stage fuel filter

* Model HD16FC
** Model HD16GC

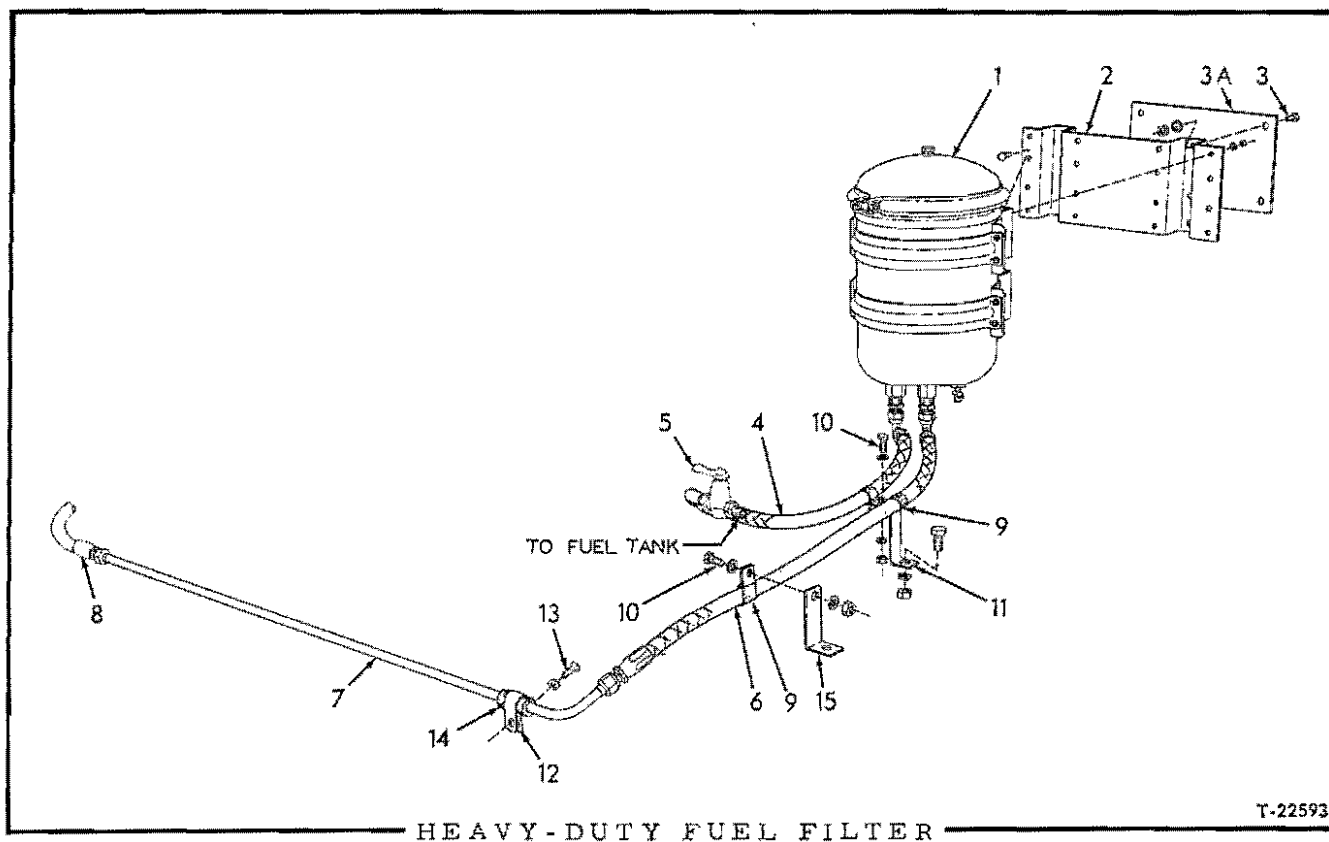
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70082441	1	1	FILTER ASSEMBLY, fuel (See page 104 for parts)
	70911168	8	8	CAPSCREW, 5/16"NF x 7/8"
	70904205	8	8	LOCKWASHER, 5/16"
	70913636	8	-	NUT, 5/16"NF
2	70080459	1	-	BRACKET, filter mounting
3	70070469	4	-	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	4	-	LOCKWASHER, 1/2"
	70911043	4	-	NUT, 1/2"NF
4	70087878	1	-	BRACKET, bracing, fuel and oil filters
5	70035073	3	-	CAPSCREW, 1/2"NF x 1-3/4"
6	70064531	6	-	WASHER, plain
	70904208	3	-	LOCKWASHER, 1/2"
	70911043	3	-	NUT, 1/2"NF
7	70087879	1	-	BRACKET, bracing, oil filter
8	70035073	1	-	CAPSCREW, 1/2"NF x 1-3/4"
9	70064531	2	-	WASHER, plain
	70904208	1	-	LOCKWASHER, 1/2"
	70911043	1	-	NUT, 1/2"NF
10	70089250	1	-	PLATE, bracing, fuel filter
11	70087472	2	-	SHIM, spacing, bracing plate
12	70091819	-	1	BRACKET, filter mounting
13	70035067	-	4	CAPSCREW, 1/2"NF x 2"
	70904208	-	4	LOCKWASHER, 1/2"
	70911043	-	4	NUT, 1/2"NF
14	70075765	-	4	BLOCK, spacing, filter mounting bracket
15	70091491	-	2	PLATE, reinforcing
16	70090034	1	-	TUBE, tank to filter
	70091931	-	1	TUBE, tank to filter
	70918564	2	2	NUT, Sealastic, 1/2" tube
	70915377	2	2	RING, Sealastic, 1/2" tube (Includes ferrule)
	70915380	2	2	ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male
	70904271	1	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT
17	70092727	1	1	COCK, shut-off (3/8"NPT male and female. Includes item 18)
18	70082189	1	1	HANDLE, shut-off cock

(Continued)

HEAVY-DUTY FUEL FILTER (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
19	70090035	1 -	TUBE, filter to transfer pump, rear section
	70091932	- 1	TUBE, filter to transfer pump, rear section
	70918564	2 2	NUT, Sealastic, 1/2" tube
	70915377	2 2	RING, Sealastic, 1/2" tube (Includes ferrule)
	70915380	1 1	ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male
	70915379	1 1	UNION, Sealastic, 1/2" tube
70904271	1 1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT	
20	70090036	1 1	TUBE, filter to transfer pump, intermediate rear section
	70918564	2 2	NUT, Sealastic, 1/2" tube
	70915377	2 2	RING, Sealastic, 1/2" tube (Includes ferrule)
	70915379	1 1	UNION, Sealastic, 1/2" tube
21	70090037	1 1	TUBE, filter to transfer pump, intermediate front section
	70918564	2 2	NUT, Sealastic, 1/2" tube
	70915377	2 2	RING, Sealastic, 1/2" tube (Includes ferrule)
	70915379	1 1	UNION, Sealastic, 1/2" tube
22	74372728	1 1	LINE, filter to transfer pump, front section
	70918564	2 2	NUT, Sealastic, 1/2" tube
	70915377	2 2	RING, Sealastic, 1/2" tube (Includes ferrule)
23	74254098	1 1	CONNECTOR, front line (Sealastic, 1/2" tube, 1/4"NPT male)
24	70091046	4 6	CLIP, tube supporting (1/2" diam., 7/16" bolt-hole)
25	70035167	1 1	CAPSCREW, 3/8"NF x 7/8"
26	70035336	1 1	CAPSCREW, 3/8"NF x 1-3/4"
	70910922	1 2	CAPSCREW, 3/8"NF x 3/4"
	70904206	3 4	LOCKWASHER, 3/8"
	70911041	3 4	NUT, 3/8"NF
27	70089971	1 1	PLATE, clip attaching
	70035167	1 1	CAPSCREW, 3/8"NF x 7/8"
	70904206	1 1	LOCKWASHER, 3/8"
29	70087968	- 1	ANGLE, clip supporting
30	70086982	1 1	BRACKET, clip supporting
	70910211	2 2	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	2 2	LOCKWASHER, 3/8"
	70912772	2 2	NUT, jam, 3/8"NC
31	70060660	1 -	CLIP, tube supporting (For two 1/2" diam. lines, 17/32" bolt-hole)
	70910319	1 -	CAPSCREW, 1/2"NF x 1"
	70904208	1 -	LOCKWASHER, 1/2"
	70911043	1 -	NUT, 1/2"NF
32	70090044	1 -	BRACKET, clip supporting
	70910319	1 -	CAPSCREW, 1/2"NF x 1"
	70904208	1 -	LOCKWASHER, 1/2"
	70911043	1 -	NUT, 1/2"NF
33	-----	- -	BRACE (See SEAT)

MEMO



USAGE: Special equipment. Applicable to Models HD16A, AC, D, DC tractors serial No. 4001 and up. Requires removal of first stage fuel filter element

* Tractors prior to serial No. 5154, excluding No. 5104
 ** Tractors serial No. 5154 and up, including No. 5104

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	

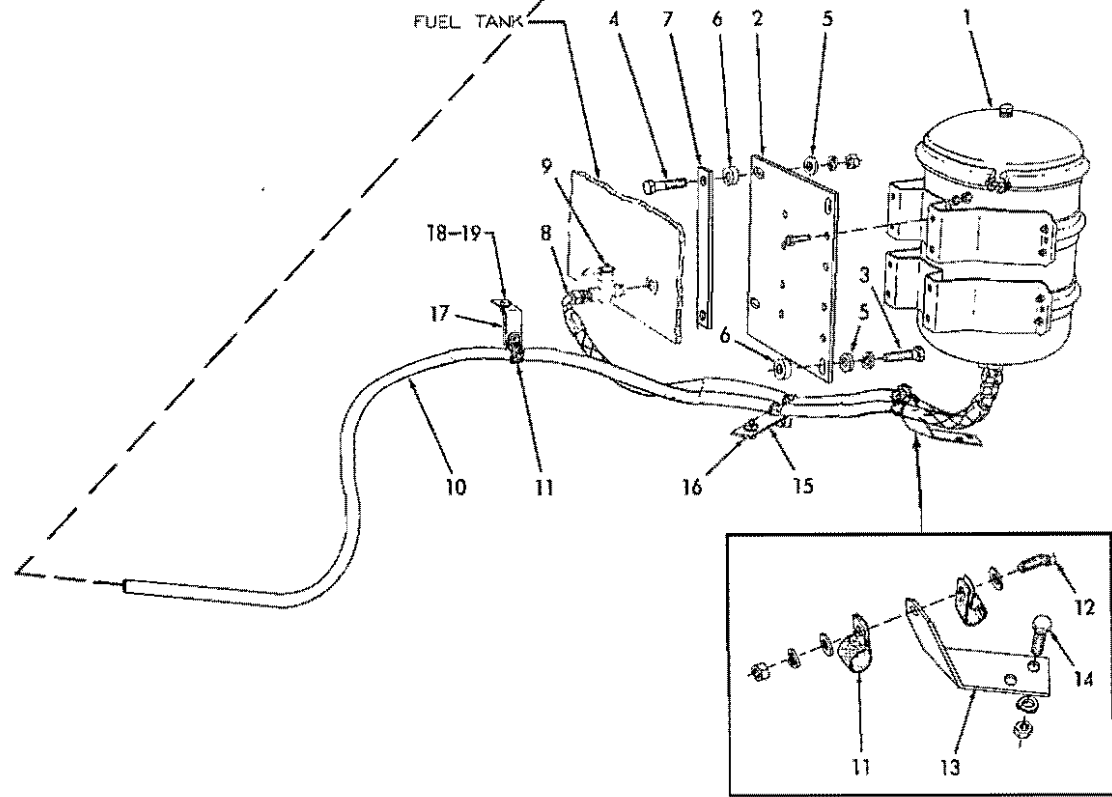
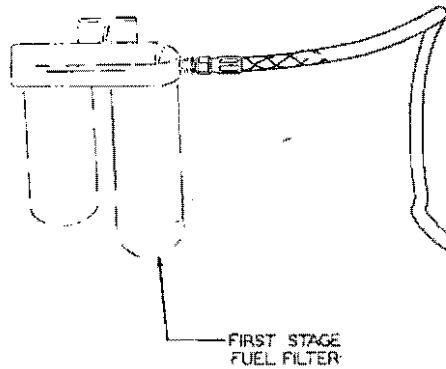
NOTE: See FUEL SUPPLY LINES for additional clips and hardware not listed here.

I	70082441	1	1	FILTER ASSEMBLY, fuel (See page 104 for parts)
	70911168	8	8	CAPSCREW, 5/16"NF x 7/8"
	70904205	8	8	LOCKWASHER, 5/16"
	70913636	8	8	NUT, 5/16"NF
2	70080459	1	1	BRACKET, mounting (Also mounts Heavy-duty Oil Filter)
3	70070469	4	4	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	4	4	LOCKWASHER, 1/2"
	70911043	4	4	NUT, 1/2"NF
3A	70099310	1	1	PLATE, backing, battery box
4	70622692	1	1	HOSE ASSEMBLY, filter supply (See HOSE PARTS)
	70919206	1	1	ELBOW, flare type, 1/2" tube, 3/8"NPT
	70919128	1	1	CONNECTOR, flare type, 1/2" tube, 1/2"NPT male
5	-----	-	-	COCK (See FUEL SUPPLY LINES)
6	70094566	1	-	HOSE ASSEMBLY, filter return (See page 6 for parts)
	70624394	-	1	HOSE ASSEMBLY, filter return (See page 6 for parts)
	70919128	1	1	CONNECTOR, flare type, 1/2" tube, 1/2"NPT male

(Continued)

HEAVY-DUTY FUEL FILTER (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
7	70094572	1	-	TUBE ASSEMBLY, filter return (Includes nuts)(Replaces standard TUBE ASSEMBLY 70094221)
8	-----	-	-	HOSE ASSEMBLY, front (See FUEL SUPPLY LINES)
9	70094467	2	3	CLIP, hose supporting (3/4" diam.)
10	70035167	1	2	CAPSCREW, 3/8"NF x 7/8"
	70911115	1	2	WASHER, plain, SAE std., 3/8"
	70904206	1	2	LOCKWASHER, 3/8"
	70911041	1	2	NUT, 3/8"NF
11	70094577	1	1	BRACKET, clip attaching (Not for tractors equipped with Bucket Seat)
	70910319	1	1	CAPSCREW, 1/2"NF x 1"
	70904208	1	1	LOCKWASHER, 1/2"
	70911043	1	1	NUT, 1/2"NF
	70095118	1	1	BRACKET, clip attaching (For tractors equipped with Bucket Seat)
12	70097534	1	-	CLIP, tube supporting (7/8" diam.)
13	70036034	1	-	CAPSCREW, 3/8"NF x 1"
	70904206	1	-	LOCKWASHER, 3/8"
14	70093752	1	-	BOOT, tube protecting
15	70624746	-	1	ANGLE, clip supporting



HEAVY-DUTY FUEL FILTER (Second type. Model HD16FC, GC)

T-19678

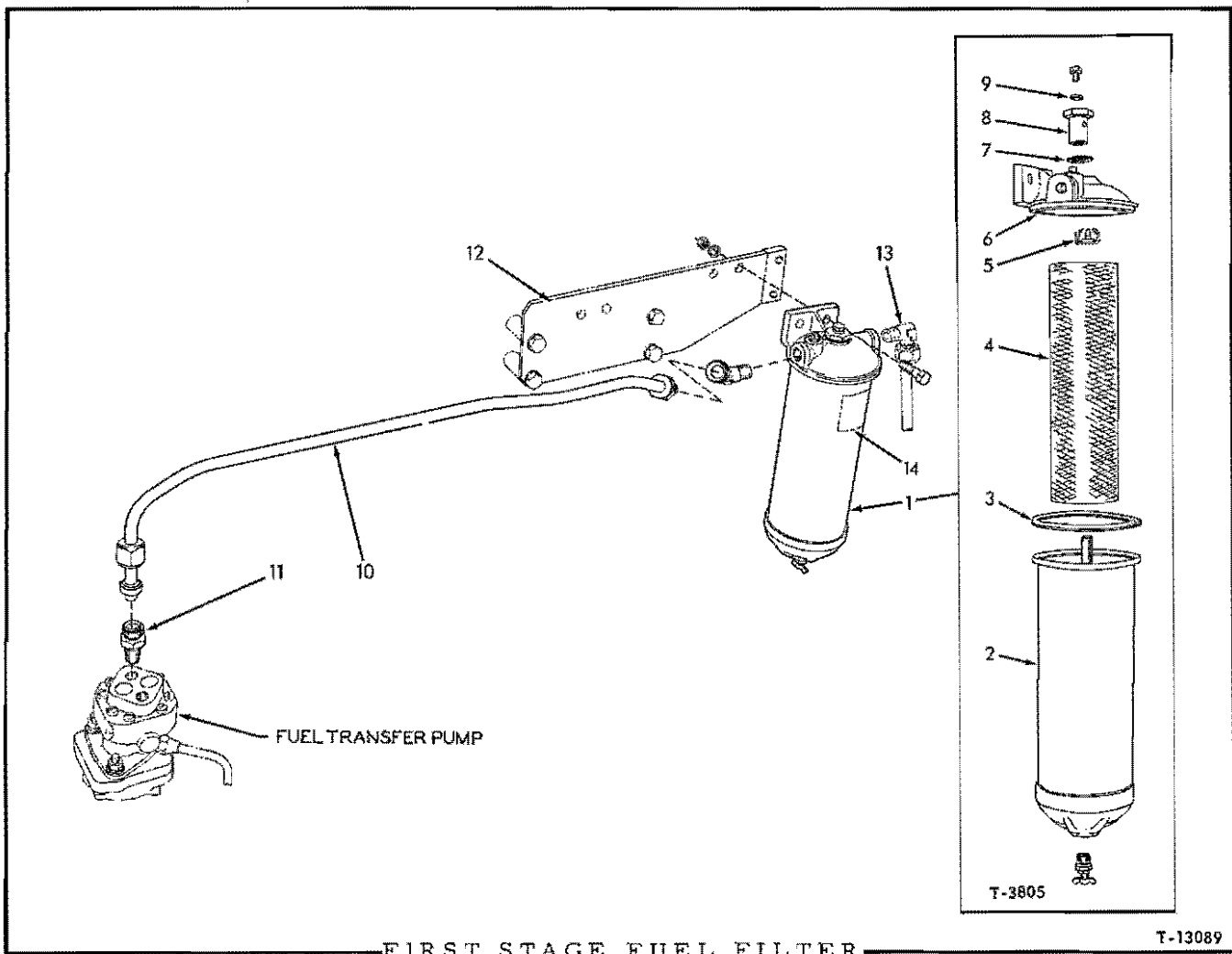
HEAVY-DUTY FUEL FILTER

USAGE: Special equipment. Applicable to Models HD16FC, GC tractors serial No. 4001 and up.
Requires removal of first stage fuel filter element.

ITEM PART NO. QTY. DESCRIPTION

NOTE: See FUEL SUPPLY LINES for additional clips and hardware not listed here.

1	70082441	1	FILTER ASSEMBLY, fuel (See page 104 for parts)
	70911168	8	CAPSCREW, 5/16"NF x 7/8"
	70904205	8	LOCKWASHER, 5/16"
	70913636	8	NUT, 5/16"NF
2	70094959	1	PLATE, filter mounting
3	70035073	2	CAPSCREW, 1/2"NF x 1-3/4"
4	70035067	2	CAPSCREW, 1/2"NF x 2"
5	70064531	4	WASHER, plain
	70904208	4	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
6	70604645	4	BOSS, mounting plate spacing
7	70091491	1	PLATE, reinforcing
8	70094941	1	HOSE ASSEMBLY, filter supply (See HOSE PARTS)
	70919128	1	CONNECTOR, flare type, 1/2" tube, 1/2"NPT male
	70919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
9	-----	-	COCK (See FUEL SUPPLY LINES)
10	70097651	1	HOSE ASSEMBLY, filter return (Model HD16FC) (See HOSE PARTS)
		1	HOSE ASSEMBLY, filter return (Model HD16GC) (See HOSE PARTS)
	70919128	1	CONNECTOR, flare type, 1/2" tube, 1/2"NPT male
	70919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
11	70094467	5	CLIP, hose supporting
12	70036034	3	CAPSCREW, 3/8"NF x 1"
	70911115	5	WASHER, plain, SAE std., 3/8" (1 less used on Model HD16GC)
	70904206	3	LOCKWASHER, 3/8"
	70911041	3	NUT, 3/8"NF
13	70094960	1	ANGLE, clip attaching (Attached to rear fender)
14	70036034	2	CAPSCREW, 3/8"NF x 1"
	70904206	2	LOCKWASHER, 3/8"
	70911041	2	NUT, 3/8"NF
15	70094903	1	ANGLE, clip attaching (Attached to fuel tank channel)
16	70023465	1	CAPSCREW, 5/8"NF x 1-3/4"
	70904209	1	LOCKWASHER, 5/8"
	70911044	1	NUT, 5/8"NF
17	70095029	1	ANGLE, clip attaching (Attached to floor channel)
18	70012992	1	CAPSCREW, 3/8"NF x 1-1/4"
19	70044973	1	WASHER, plain
	70904206	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF



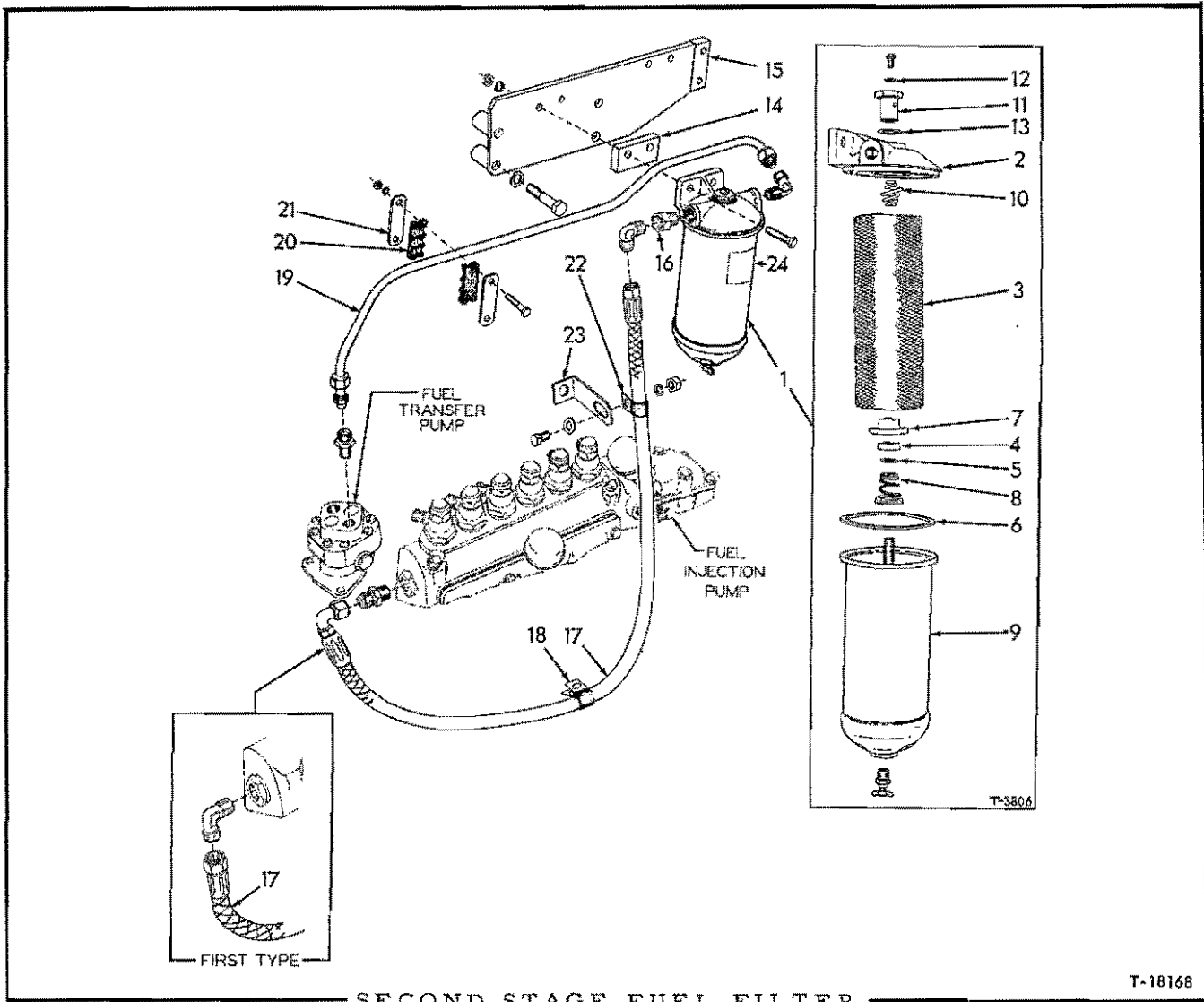
USAGE: Tractors prior to serial No. 4001 except those equipped with HEAVY-DUTY FUEL FILTER

ITEM	PART NO.	QTY.	DESCRIPTION
1	74372734	1	FILTER ASSEMBLY, fuel (Consists of items 2 thru 9)
	70910211	2	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
2	-----	1	SHELL, filter (Order item 1)
	70644417	1	COCK, drain, T-handle, 1/4"NPT
3	74040013	1	GASKET, filter shell
4	74055565	1	ELEMENT KIT (Includes item 3)
5	74051485	1	GUIDE, element centering
6	74347790	1	HEAD, filter
7	74051484	1	GASKET, shell retaining nut
8	74051483	1	NUT, shell retaining
	70906692	1	CAPSCREW, 1/4"NC x 3/8"

(Continued)

FIRST STAGE FUEL FILTER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
9	70065577	1	GASKET, bleeding screw (fibre)
10	74372728	1	LINE, filter to transfer pump
	70916203	1	ELBOW, Sealastic, 45°, 1/2" tube, 3/8"NPT male
	70918564	2	NUT, Sealastic, 1/2" tube
	70915377	2	RING, Sealastic, 1/2" tube (Includes ferrule)
11	74254098	1	CONNECTOR, fuel line (Sealastic, 1/2" tube, 1/4"NPT male)
12	-----	-	BRACKET, mounting (See SECOND STAGE FUEL FILTER)
13	-----	-	TUBE, fuel tank to filter (See FUEL SUPPLY LINE)
14	-----	-	TRANSFER (See PAINTING AND MARKING)



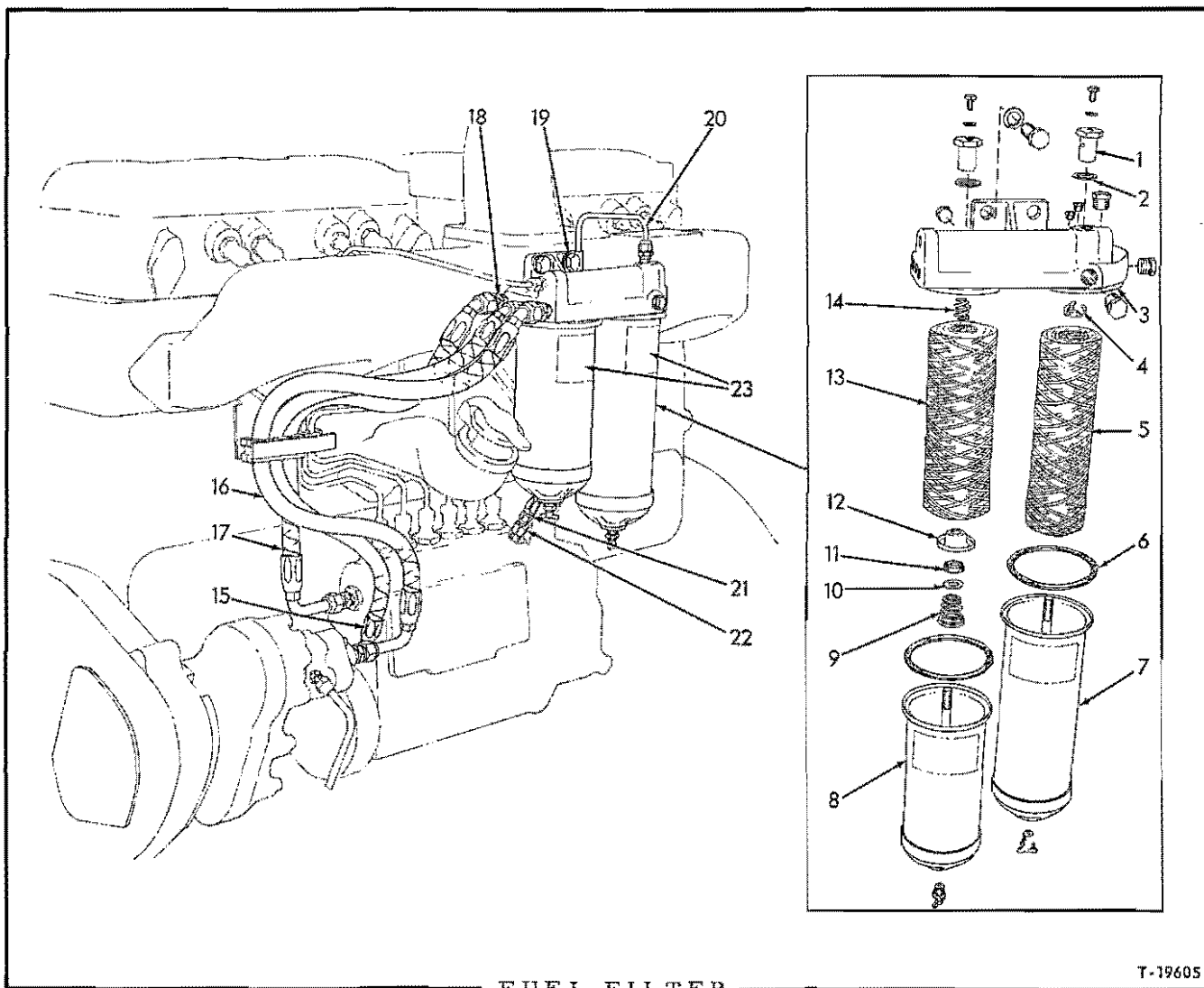
USAGE: Tractors prior to serial No. 4001

ITEM	PART NO.	QTY.	DESCRIPTION
1	74372900	1	FILTER ASSEMBLY, fuel (Consists of items 2 thru 13)
	70903633	2	CAPSCREW, 3/8"NC x 1-3/4"
	70904206	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
2	74347790	1	HEAD, filter
3	74055920	1	ELEMENT KIT (Includes items 4 thru 6)
4	-----	1	GASKET, element plate (Not serviced separately)
5	-----	1	WASHER, element plate gasket (Not serviced separately)
6	74040013	1	GASKET, filter shell
7	74052173	1	PLATE, element seating
8	74052174	1	SPRING, element

(Continued)

SECOND STAGE FUEL FILTER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
9	----- 70644417	1 1	SHELL, filter (Order item 1) COCK, drain, T-handle, 1/4"NPT	
10	74055913	1	GUIDE, element centering	
11	74051483 70915432	1 1	NUT, shell retaining SCREW, machine, 1/4"NC x 5/16"	
12	70065577	1	GASKET, bleeding screw	
13	74051484	1	GASKET, shell retaining nut	
14	74372873	1	PLATE, filter spacing	
15	74371672 70903642 70904208	1 4 4	BRACKET, filter mounting CAPSCREW, 1/2"NC x 2-1/2" LOCKWASHER, 1/2"	
16	70912483	1	ADAPTER, reducing, 3/8"NPT female to 1/4"NPT male (Used prior to engine #68391)	
17	-----	1	HOSE, filter to pump (Used prior to engine #16-2754. Order HOSE ASSEMBLY 74376111 and CONNECTOR 70919063)	
	70911309	2		ELBOW, flare type, 90°, 1/2" tube, 3/8"NPT male
	74376111	1		HOSE ASSEMBLY, filter to pump (See HOSE PARTS) (Effective with engine #16-2754)
	70911309 70919063	1 1		ELBOW, flare type, 90°, 1/2" tube, 3/8"NPT male CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
18	74376428	1	CLAMP, hose supporting, lower	
19	74372730 70918325 70915367 70915368 70915369 70918318	1 2 2 1 1 1	LINE, transfer pump to second stage filter NUT, Sealastic, 3/8" tube RING, Sealastic, 3/8" tube (Includes ferrule) CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male (Used prior to engine #68391) ELBOW, Sealastic, 90°, 3/8" tube, 3/8"NPT male (Effective with engine #68391)	
20	74372758	4	CLAMP, fuel lines (rubber)	
21	74372764 70905818 70904204 70910880	4 4 4 4	PLATE, backing CAPSCREW, 1/4"NC x 1-1/2" LOCKWASHER, 1/4" NUT, 1/4"NC	
22	74254580 70903638 70900817 70904206 70912772	1 1 1 1 1	CLAMP, hose supporting, upper CAPSCREW, 3/8"NC x 5/8" WASHER, plain, U.S. std., 3/8" LOCKWASHER, 3/8" NUT, 3/8"NC	
23	74376338	1	BRACKET, hose supporting clamp	
24	-----	-	TRANSFER (See PAINTING AND MARKING)	



FUEL FILTER

T-19605

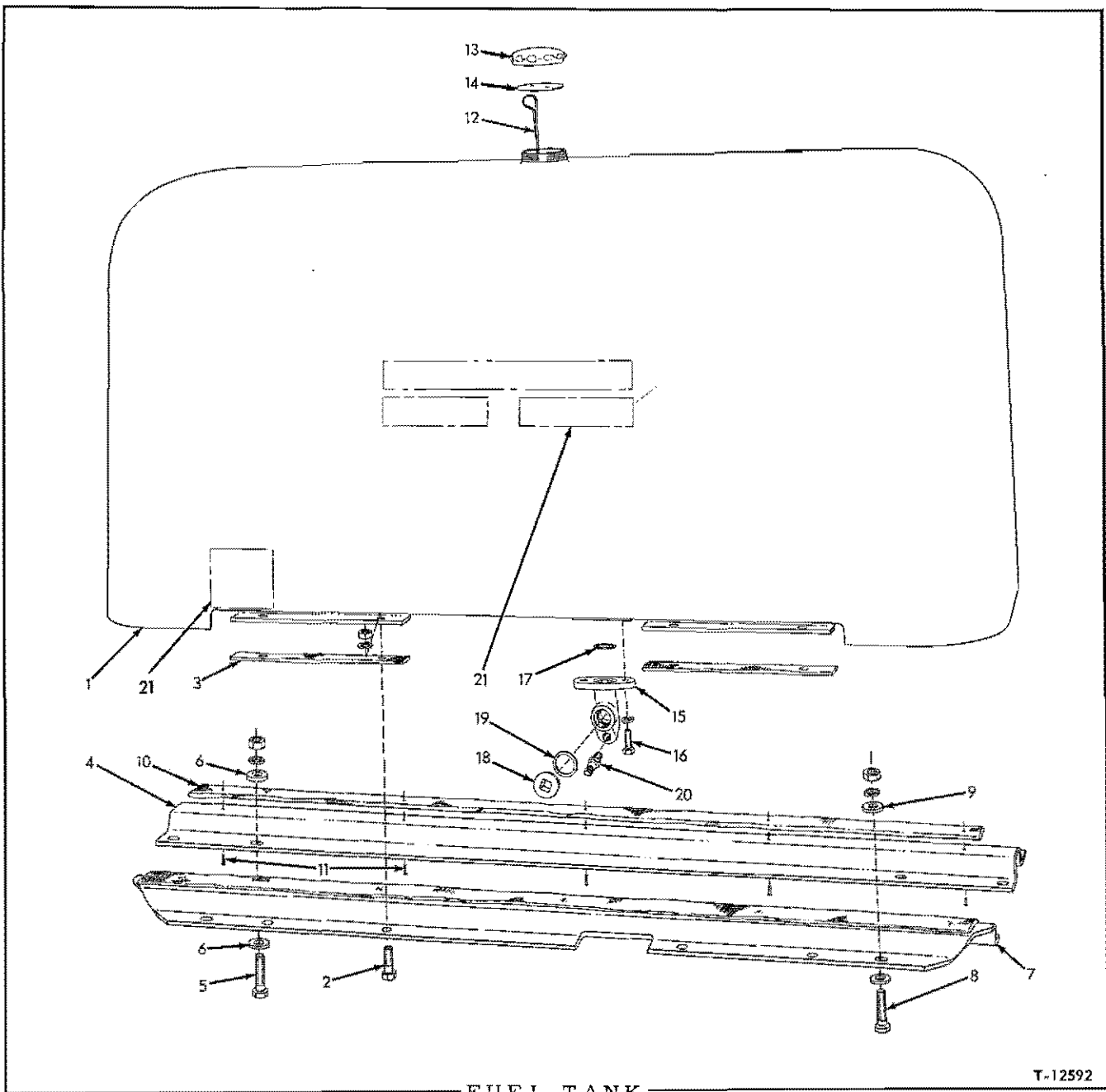
USAGE: Tractors serial No. 4001 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	74051483	2	NUT, shell retaining (1-3/16" long)(Original equipment)
	74389113	2	NUT, shell retaining (1-9/16" long)(Used with service replacement filter head only)
	70919288	2	CAPSCREW, 1/4"NC x 3/8" } Air bleed
	70914686	2	
2	74051484	2	GASKET, shell retaining nut
3	74389051	1	HEAD ASSEMBLY, (Includes PLUGS indented below)
	70919134	2	PLUG, pipe, hex-hd., 1/8"NPT
	70919840	1	PLUG, pipe, hex-hd., 1/4"NPT (Not used with service replacement filter head)
	70920333	2	PLUG, pipe, hex-hd., 3/8"NPT
	70918887	1	PLUG, pipe, hex-socket, 3/8"NPT
	70916311	2	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	2	LOCKWASHER, 1/2"

(Continued)

FUEL FILTER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
4	74051485	1	GUIDE, element centering, first stage filter
5	74055565	1	ELEMENT KIT, first stage filter (Includes item 6)(Not used when Heavy-Duty Filter is installed)
6	74040013	2	GASKET, filter shell
7	74389172	1	SHELL ASSY. (Includes items 1,2,4 thru 6 and COCK 70912415)
	70912415	1	COCK, drain, 1/4"NPT
8	74388109	1	SHELL ASSY. (Includes items 1,2,6, 9 thru 14 and COCK 70912415)
	70912415	1	COCK, drain, 1/4"NPT
9	74052174	1	SPRING, second stage filter
10	-----	1	WASHER, element plate gasket (Not serviced separately)
11	-----	1	GASKET, element plate (Not serviced separately)
12	74052173	1	PLATE, element seating, second stage filter
13	74055920	1	ELEMENT KIT, second stage filter (Includes items 6, 10 and 11)
14	74055913	1	GUIDE, element centering second stage filter
15	74377458	1	HOSE ASSEMBLY, transfer pump to second stage filter (See HOSE PARTS)
	70919062	2	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
	70901826	1	BUSHING, pipe reducing, 3/8"NPT to 1/4"NPT (For use with service replacement filter head only)
16	74377457	1	HOSE ASSEMBLY, first stage filter to transfer pump (See HOSE PARTS)
	70919205	1	CONNECTOR, flare type, 1/2" tube, 1/4"NPT male
	70919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
17	74376742	1	HOSE ASSEMBLY, second stage filter to injection pump (See HOSE PARTS)
	70919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
18	74377515	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male (restricted)
19	74377963	1	CLIP, supporting, fuel return tube
20	74377961	1	TUBE, fuel return
	70917809	2	NUT, Imperial, 1/4" tube
	70917806	2	SLEEVE, Imperial, 1/4" tube
	70920242	1	CONNECTOR, Imperial, 1/4" tube, 1/4"NPT male
	70917814	1	CONNECTOR, Imperial, 1/4" tube, 1/4"NPT female
21	74335557	1	HOSE ASSEMBLY, fuel return (See HOSE PARTS)
22	74377956	1	CONNECTOR, fuel return hose (restricted)
23	-----	-	TRANSFERS (See PAINTING AND MARKING)



* Models HD16A, AC, D, DC
 ** Models HD16FC, GC

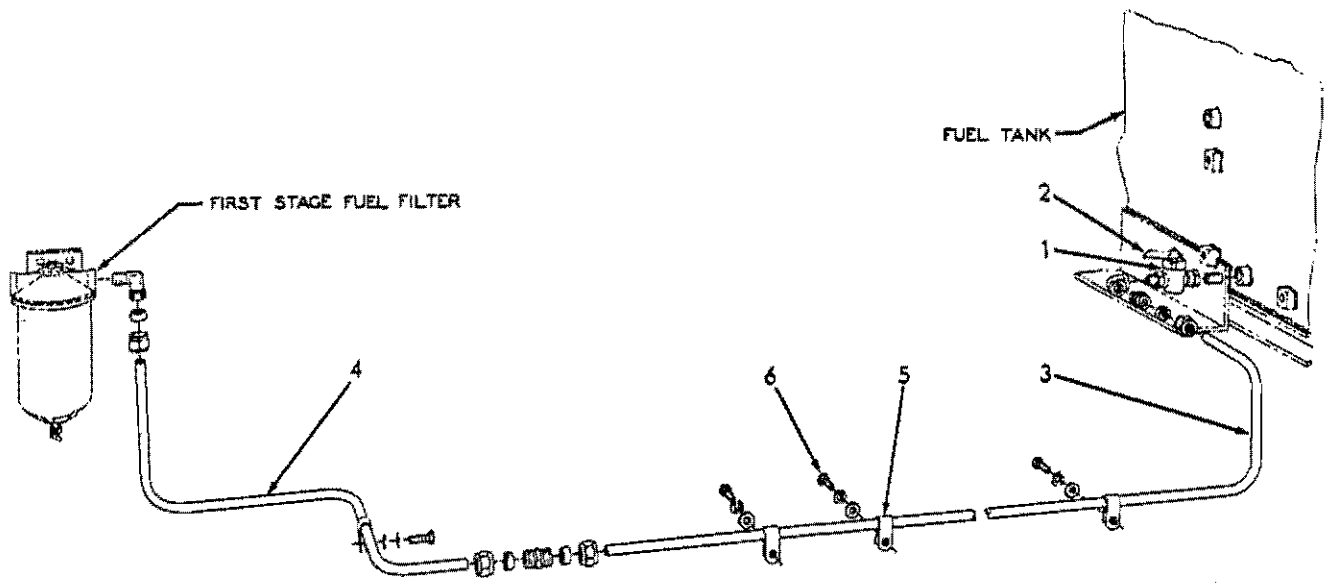
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70083964	1	1	TANK, fuel
2	70035014	8	8	CAPSCREW, 5/8"NF x 1-1/2"
	70904209	8	8	LOCKWASHER, 5/8"
	70911044	8	8	NUT, 5/8"NF
3	70083917	4	4	PAD, tank mounting

(Continued)

FUEL TANK (Continued)

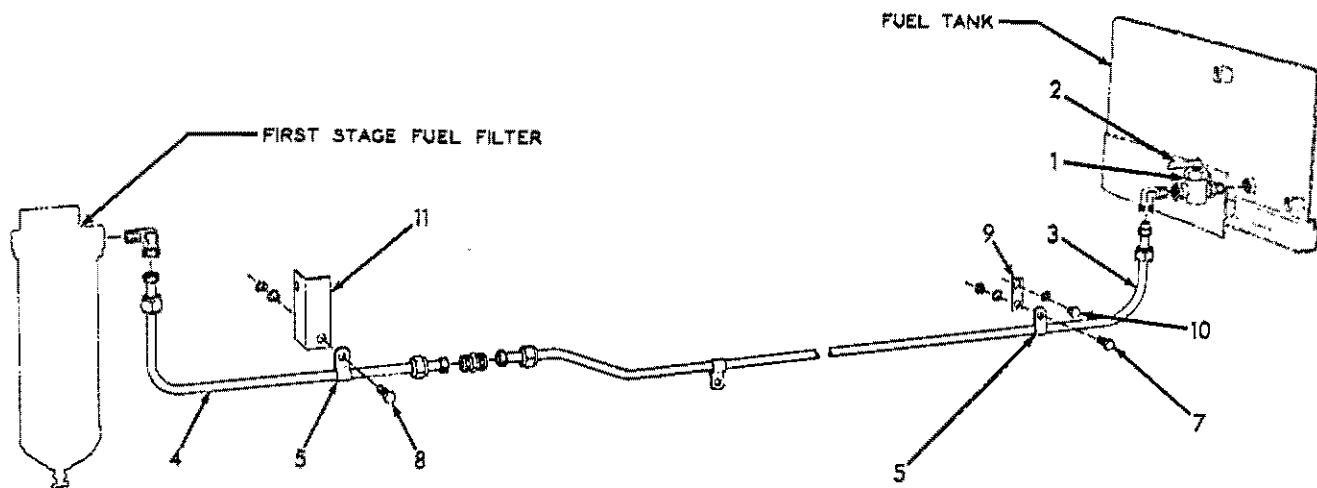
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
4	70083919	1	1	CHANNEL ASSEMBLY, tank supporting, front (Includes items 10 and 11)(Used prior to tractor #4129)
	70095481	1	1	CHANNEL ASSEMBLY, tank supporting, front (Includes items 10 and 11)(Effective with tractor #4129)
5	70035248	8	-	CAPSCREW, 5/8"NF x 2-1/4"
	70035229	-	8	CAPSCREW, 5/8"NF x 2"
6	70064810	16	8	WASHER, plain
	70904209	8	8	LOCKWASHER, 5/8"
	70911044	8	-	NUT, 5/8"NF (4 less used prior to tractor #4129)
7	70095479	1	1	CHANNEL ASSEMBLY, tank supporting, rear (Includes items 10 and 11)(Used prior to tractor #4129)
	70095479	1	1	CHANNEL ASSEMBLY, tank supporting, rear (Includes items 10 and 11)(Effective with tractor #4129)
8	70023465	6	-	CAPSCREW, 5/8"NF x 1-3/4" (Used prior to tractor #4129)
	70035248	6	-	CAPSCREW, 5/8"NF x 2-1/4" (Effective with tractor #4129)
	70035229	-	6	CAPSCREW, 5/8"NF x 2"
9	70064810	12	6	WASHER, plain
	70904209	6	6	LOCKWASHER, 5/8"
	70911044	6	2	NUT, 5/8"NF
10	70083918	2	2	PAD, tank mounting
11	70083915	10	10	RIVET, split, 3/16" x 3/4"
12	70097735	1	1	GAUGE, fuel level
13	70642744	1	1	CAP, fuel tank
14	70065613	1	1	GASKET, fuel tank cap
15	70083955	1	1	ELBOW, fuel tank drain
16	70070469	2	2	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	2	2	LOCKWASHER, 1/2"
17	70923813	1	1	O-RING, fuel tank drain elbow
18	70050594	1	1	PLUG, drain elbow clean-out
19	70050595	1	1	GASKET, drain elbow clean-out plug
20	70633519	1	1	COCK, drain
21	-----	-	-	TRANSFERS (See PAINTING AND MARKING)

MODELS HD16A, AC, D, DC



T-16253

MODELS HD16FC, GC



T-17457

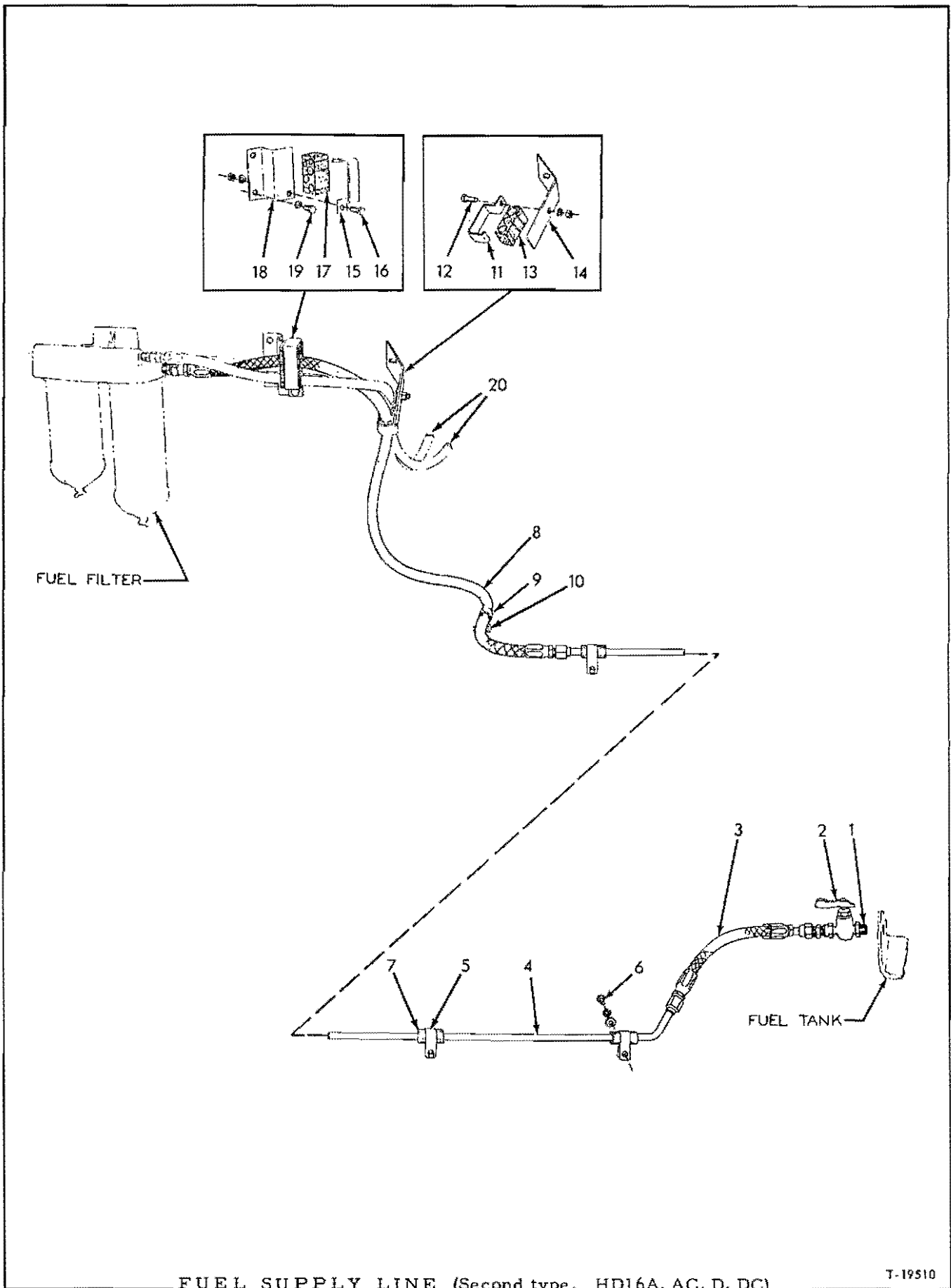
FUEL SUPPLY LINE (First type. HD16A, AC, D, DC, FC and GC)

FUEL SUPPLY LINE

USAGE: Tractors prior to serial No. 4001. Not used on units equipped with Heavy-duty Fuel Filter

* Models HD16A, AC, D, DC
** Models HD16FC, GC

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70092727	1	1	COCK, fuel shut-off (3/8"NPT male and female, Includes item 2)
	70901489	1	-	NIPPLE, pipe, 3/8"NPT x 1"
	70901678	1	-	ELBOW, pipe, 90°, 3/8"NPT
	70915380	-	1	ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male
2	70082189	1	1	HANDLE, fuel shut-off cock
3	70083421	1	-	TUBE, tank to filter, rear section
	70087819	-	1	TUBE, tank to filter, rear section
	70915378	1	-	CONNECTOR, Sealastic, 1/2" tube, 3/8"NPT male
	70918564	2	2	NUT, Sealastic, 1/2" tube
	70915377	2	2	RING, Sealastic, 1/2" tube (Includes ferrule)
4	70086750	1	-	TUBE, tank to filter, front section
	70087837	-	1	TUBE, tank to filter, front section
	70915379	1	1	UNION, Sealastic, 1/2" tube
	70915380	1	1	ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male
	70918564	2	2	NUT, Sealastic, 1/2" tube
	70915377	2	2	RING, Sealastic, 1/2" tube (Includes ferrule)
5	70091046	4	3	CLIP, tube supporting
6	70036034	4	-	CAPSCREW, 3/8"NF x 1"
7	70035167	-	1	CAPSCREW, 3/8"NF x 7/8"
8	70035336	-	1	CAPSCREW, 3/8"NF x 1-3/4"
	70904206	4	2	LOCKWASHER, 3/8"
	70911115	4	-	WASHER, plain, SAE std., 3/8"
	70911041	-	2	NUT, 3/8"NF
9	70089971	-	1	PLATE, clip attaching
10	70035167	-	1	CAPSCREW, 3/8"NF x 7/8"
	70904206	-	1	LOCKWASHER, 3/8"
11	70087968	-	1	ANGLE, plate supporting (HD16GC only)



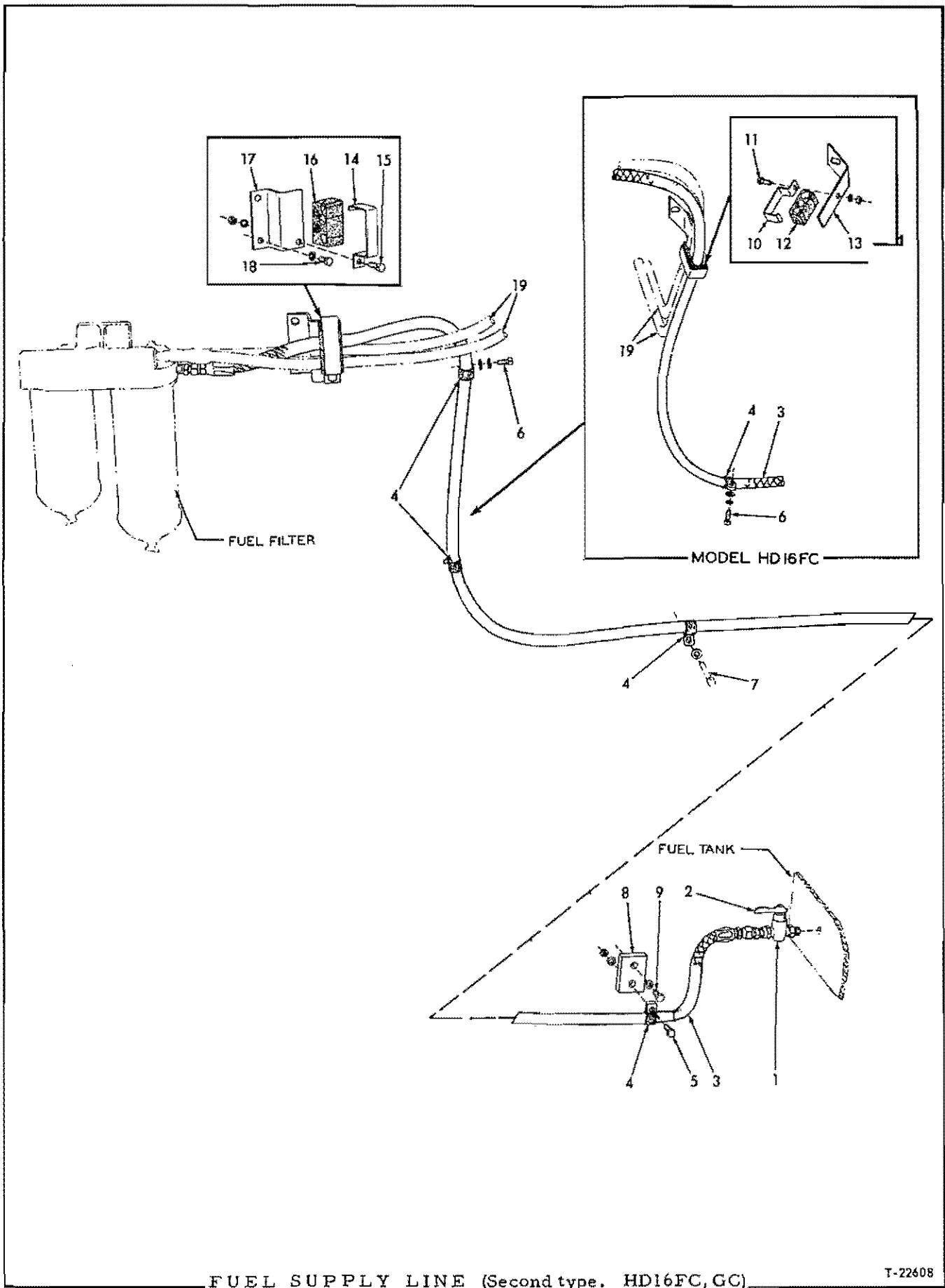
FUEL SUPPLY LINE (Second type. HD16A, AC, D, DC)

T-19510

FUEL SUPPLY LINE

USAGE: Model HD16A, AC, D, DC tractors serial No. 4001 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	70092727	1	COCK, fuel shut-off (Includes item 2)
2	70082189	1	HANDLE, fuel shut-off cock
3	70093516	1	HOSE ASSEMBLY, rear (See HOSE PARTS) (Not used on tractors equipped with Heavy-duty Fuel Filter)(Used prior to tractor #5154, excluding #5104)
	70623852	1	HOSE ASSEMBLY, rear (See HOSE PARTS) (Not used on tractors equipped with Heavy-duty Fuel Filter)(Effective with tractor #5154, including #5104)
	70919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
4	70094221	1	TUBE ASSEMBLY (Includes nuts)(Not used on tractors equipped with Heavy-duty Fuel Filter)(Used prior to tractor #5154, excluding #5104)
	70623851	1	TUBE ASSEMBLY (Includes nuts)(Effective with tractor #5154, including #5104)
5	70097534	3	CLIP, tube supporting
6	70036034	3	CAPSCREW, 3/8"NF x 1"
	70904206	3	LOCKWASHER, 3/8"
	70911115	3	WASHER, plain, SAE std., 3/8"
7	70093752	3	BOOT, tube protecting
8	70094303	1	HOSE ASSEMBLY, front (See HOSE PARTS)
	70919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
9	70094467	1	CLIP, hose supporting
10	70036034	1	CAPSCREW, 3/8"NF x 1"
	70904206	1	LOCKWASHER, 3/8"
	70911115	1	WASHER, plain, SAE std., 3/8"
11	70094964	1	CLAMP, rear, hose attaching
12	70036034	1	CAPSCREW, 3/8"NF x 1"
	70904206	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF
13	70096354	1	BLOCK, hose rear clamp (rubber)
14	70097629	1	BRACKET, hose rear clamp
15	70095980	1	CLAMP, front, hose attaching
16	70036034	1	CAPSCREW, 3/8"NF x 1"
	70904206	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF
17	70096328	1	BLOCK, hose front clamp (rubber)
18	70096310	1	BRACKET, hose front clamp
19	70035244	2	CAPSCREW, 3/8"NC x 3/4"
	70904206	2	LOCKWASHER, 3/8"
20	-----	-	HOSE ASSEMBLY (See FUEL RETURN LINES)



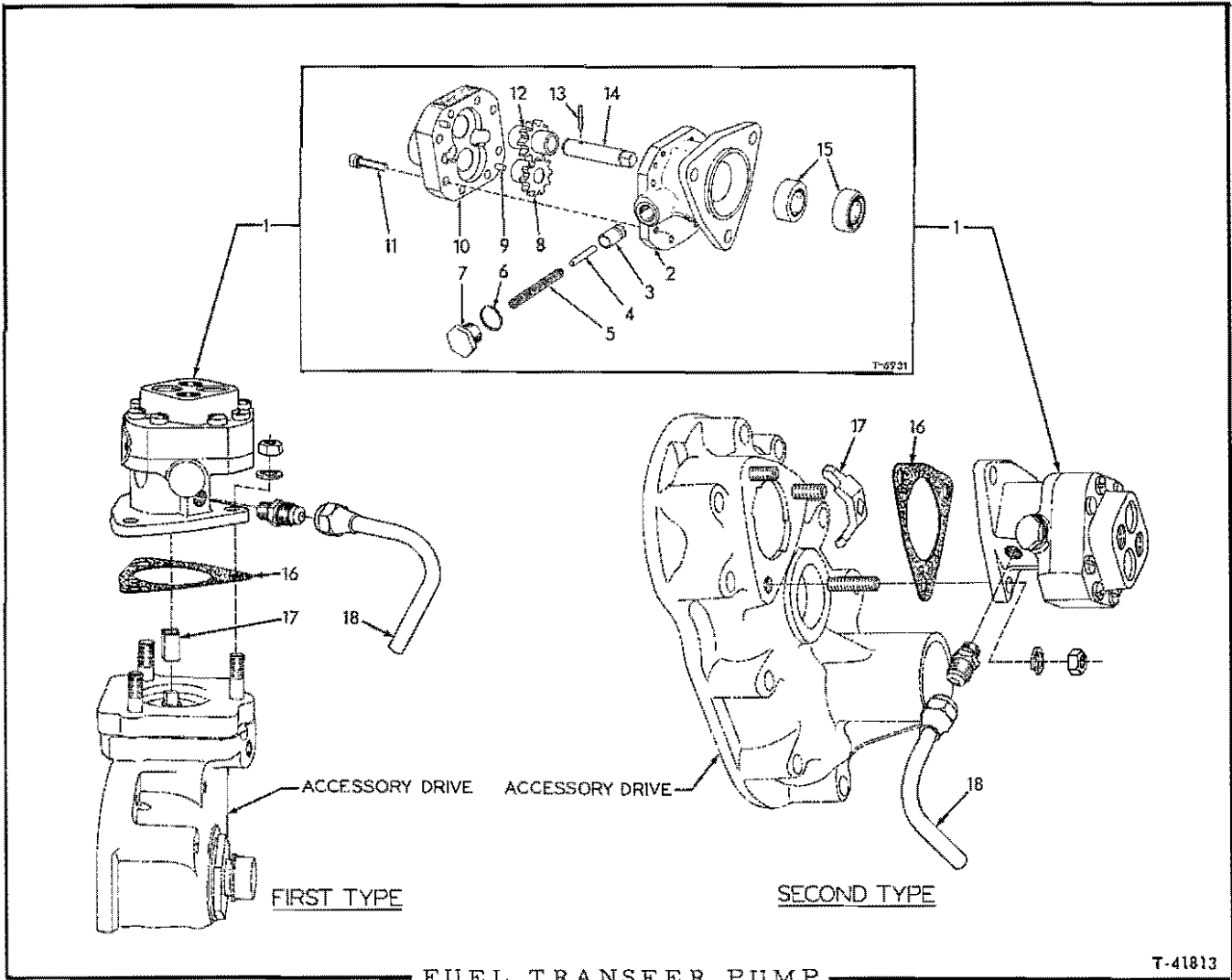
FUEL SUPPLY LINE (Second type. HD16FC, GC)

T-22608

FUEL SUPPLY LINE

USAGE: Model HD16FC, GC tractors serial No. 4001 and up

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
				* Model HD16FC ** Model HD16GC
1	70092727	1	1	COCK, fuel shut-off (Includes item 2)
2	70082189	1	1	HANDLE, fuel shut-off cock
3	70094304	1	-	HOSE ASSEMBLY (See HOSE PARTS) (Not used on tractors equipped with Heavy-duty Fuel Filter)
	70097533	-	1	HOSE ASSEMBLY (See HOSE PARTS) (Not used on tractors equipped with Heavy-duty Fuel Filter) (Used prior to tractor #5154)
	70094304	-	1	HOSE ASSEMBLY (See HOSE PARTS) (Not used on tractors equipped with Heavy-duty Fuel Filter) (Effective with tractors #5154)
	70919063	2	2	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
4	70094467	3	4	CLIP, hose supporting
5	70035167	1	1	CAPSCREW, 3/8"NF x 7/8"
6	70036034	1	-	CAPSCREW, 3/8"NF x 1"
	70036032	-	2	CAPSCREW, 3/8"NF x 3/4"
7	-----	1	1	CAPSCREW (See HYDRAULIC STEERING CONTROL)
	70911115	2	3	WASHER, plain, SAE std., 3/8"
	70904206	2	3	LOCKWASHER, 3/8"
	70911041	1	1	NUT, 3/8"NF
8	70089971	1	1	PLATE, clip attaching
9	70035167	1	1	CAPSCREW, 3/8"NF x 7/8"
	70904206	1	1	LOCKWASHER, 3/8"
10	70094964	1	-	CLAMP, rear, hose attaching
11	70036034	1	-	CAPSCREW, 3/8"NF x 1"
	70904206	1	-	LOCKWASHER, 3/8"
	70911041	1	-	NUT, 3/8"NF
12	70096354	1	-	BLOCK, hose rear clamp (rubber)
13	70097629	1	-	BRACKET, hose rear clamp
14	70095980	1	1	CLAMP, front, hose attaching
15	70036034	1	1	CAPSCREW, 3/8"NF x 1"
	70904206	1	1	LOCKWASHER, 3/8"
	70911041	1	1	NUT, 3/8"NF
16	70096328	1	1	BLOCK, hose front clamp
17	70096310	1	1	BRACKET, hose front clamp
18	70035244	2	2	CAPSCREW, 3/8"NC x 3/4"
	70904206	2	2	LOCKWASHER, 3/8"
19	-----	-	-	HOSE ASSEMBLY (See FUEL RETURN LINES)



FUEL TRANSFER PUMP

T-41813

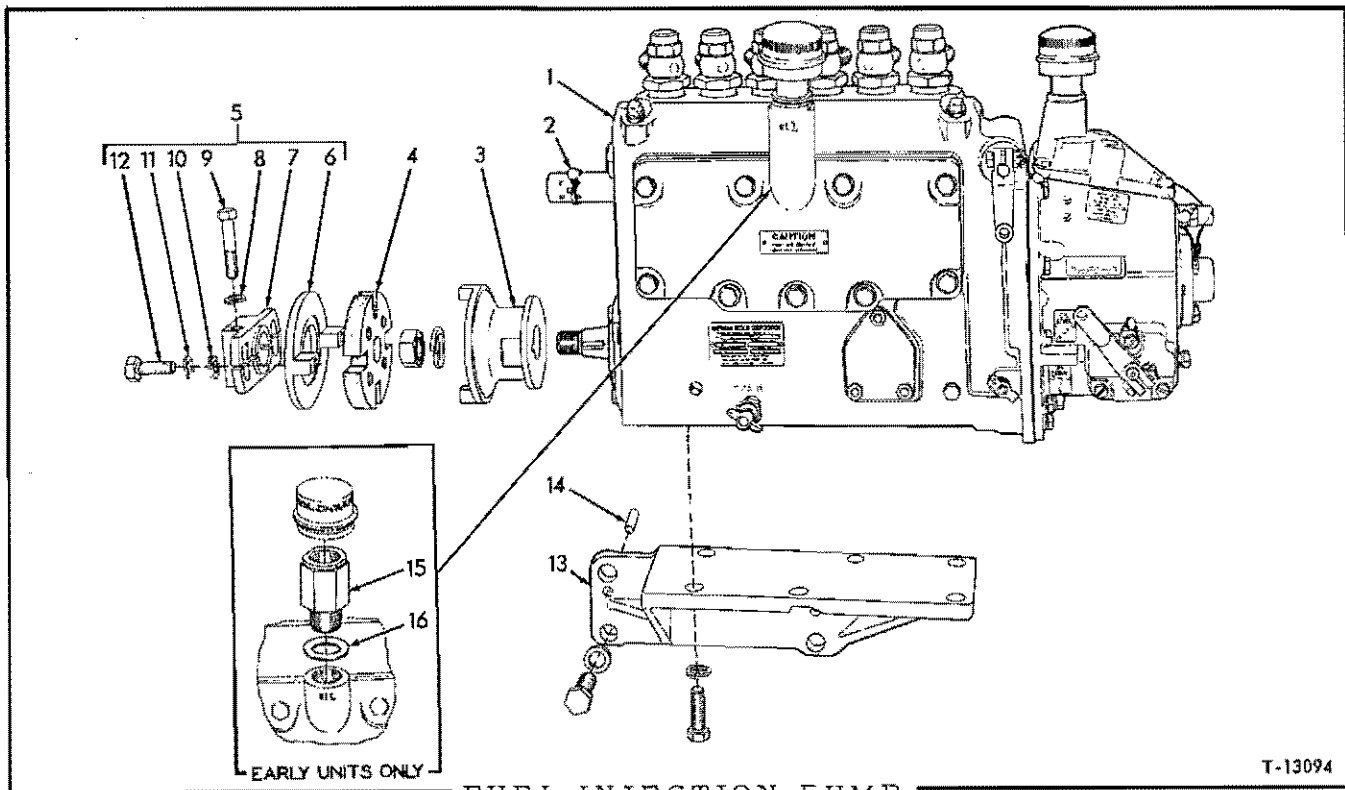
* Tractors prior to serial No. 4001
 ** Tractors serial No. 4001 and up

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	74369765	1 -	PUMP ASSEMBLY, fuel (Consists of items 2 thru 15)
	70904205	3 -	LOCKWASHER, 5/16"
	70910233	3 -	NUT, 5/16"NF
	74377456	- 1	PUMP ASSEMBLY, fuel (Consists of items 2 thru 15)
	74376667	- 3	STUD (5/16" diam.)
	70904205	- 3	LOCKWASHER, 5/16"
	70910323	- 3	NUT, 5/16"NC
2	-----	1 1	STATOR (Not serviced separately)
3	74047994	1 1	PLUNGER, pressure relief
4	74047993	1 1	PIN, guiding, pressure relief spring
5	74048003	1 1	SPRING, pressure relief plunger
6	74048002	1 1	GASKET, pressure relief spring plug

(Continued)

FUEL TRANSFER PUMP (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
7	74048001	1	1	PLUG, pressure relief spring
8	74047992	1	1	GEAR, driven
9	74048000	2	2	PIN, dowel, stator to housing
10	-----	1	1	HOUSING (Not serviced separately)
11	74047996	8	8	BOLT ASSEMBLY (Includes lockwasher)
12	74047995	1	1	GEAR, driving
13	74047782	1	1	PIN, shear, driving gear
14	74047997	1	1	SHAFT, driving gear
15	74047783	2	2	SEAL, pump shaft
16	74376605	1	1	□GASKET, pump to housing
17	74372351	1	-	COUPLING
	74377121	-	1	FORK, coupling
18	74372546	1	1	LINE ASSEMBLY, fuel drain (Includes 70910139 NUT)(Not used on units with torque converter effective with engine #16-4429)
	70910139	1	1	NUT, flared, 5/16" tube
	70910171	1	1	CONNECTOR, flared, 5/16" tube, 1/8"NPT male



USAGE: Tractors prior to serial No. 4001 (HD844 series engine)

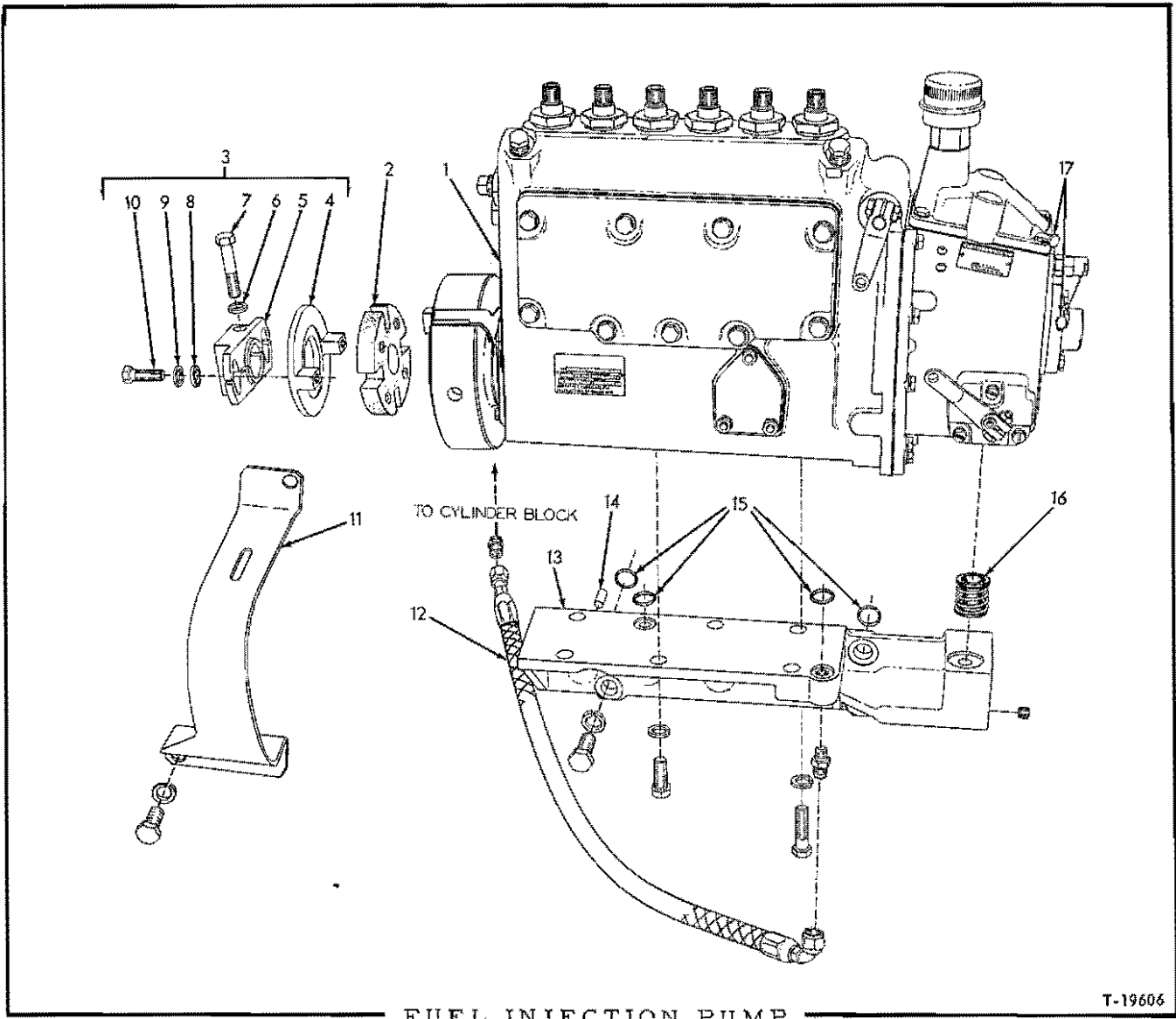
* Tractors without torque converter
 ** Tractors with torque converter

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	74377690	1	-	PUMP ASSEMBLY, injection (Includes items 3 thru 5)
	74377691	-	1	PUMP ASSEMBLY, injection (Includes items 3 thru 5)
	70913030	6	6	CAPSCREW, 7/16"NC x 1-1/8"
	70904207	6	6	LOCKWASHER, 7/16"
2	74355843	3	3	SEAL, anti-tampering
3	74371712	1	1	COUPLING, injection pump
4	74379813	1	1	DISC, injection pump coupling
5	74371714	1	1	COUPLING ASSEMBLY, injection pump drive (Consists of items 6 thru 12)
6	74371716	1	1	FLANGE, injection pump drive coupling
7	74371715	1	1	HUB, injection pump drive coupling
	70905845	1	1	KEY, #A woodruff, 1/4" x 7/8"
8	74371720	1	1	LOCKWASHER, hub clamping screw
9	74371719	1	1	SCREW, clamping, coupling hub
10	74371718	2	2	WASHER, plain, coupling capscrew
11	74371721	2	2	LOCKWASHER, coupling capscrew

(Continued)

FUEL INJECTION PUMP (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
12	74371717	2	2	CAPSCREW, injection pump drive coupling
13	74363977	1	1	BRACKET, injection pump mounting
	70903638	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4	4	LOCKWASHER, 1/2"
14	74514110	2	2	PIN, dowel, mounting bracket (1/4" diam.)(Used prior to engine #68325)
	74253286	2	2	PIN, dowel, mounting bracket (5/16" diam.)(Effective with engine #68325)
15	74373270	1	1	EXTENSION, pump breather (Used prior to tractor #869)
16	74372067	1	1	GASKET, breather extension (Used prior to tractor #869)



FUEL INJECTION PUMP

T-19606

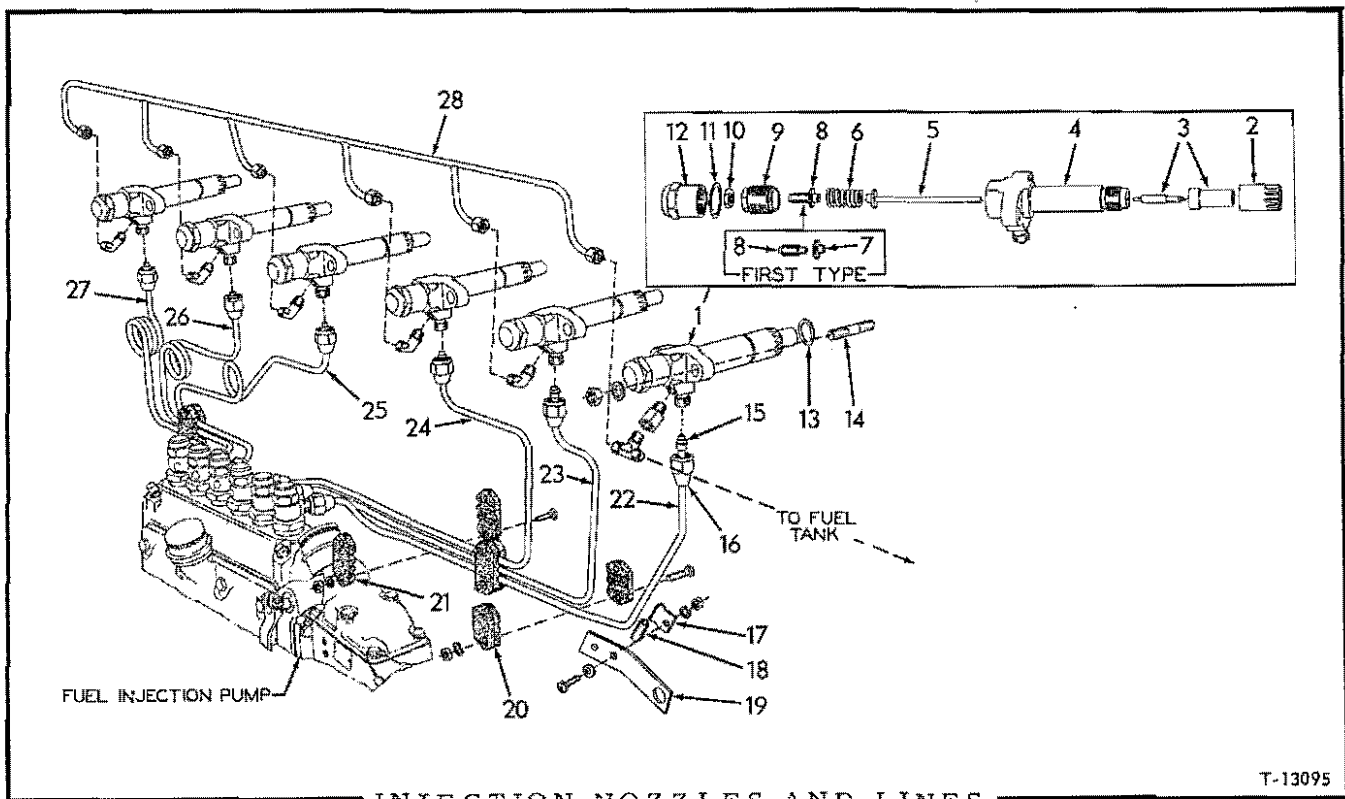
USAGE: Tractors serial No. 4001 and up (16000 series engine)

ITEM	PART NO.	QTY.	DESCRIPTION
1	74385801	1	PUMP ASSEMBLY, injection (Includes items 2 and 3) (For units without torque converter)
	74385803	1	PUMP ASSEMBLY, injection (Includes items 2 and 3) (For units with torque converter)
	70919228	4	CAPSCREW, 7/16"NC x 1-1/8"
	70918801	2	CAPSCREW, 7/16"NC x 1-5/8"
	70904207	6	LOCKWASHER, 7/16"
2	74379813	1	DISC, injection pump coupling
3	74371714	1	COUPLING ASSEMBLY, injection pump drive (Consists of items 4 thru 10)
4	74371716	1	FLANGE, injection pump drive coupling

(Continued)

FUEL INJECTION PUMP (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
5	74371715	1	HUB, injection pump drive coupling
	70905845	1	KEY, #A woodruff, 1/4" x 7/8"
6	74371720	1	LOCKWASHER, hub clamping screw
7	74371719	1	SCREW, clamping, coupling hub
8	74371718	2	WASHER, serrated, coupling capscrew
9	74371721	2	LOCKWASHER, coupling capscrew
10	74371717	2	CAPSCREW, injection pump drive coupling
11	74379076	1	GUARD, pump flywheel (Effective with engine #16-4021)
	70903637	1	CAPSCREW, 1/2"NC x 1"
	70904208	1	LOCKWASHER, 1/2"
12	74377153	1	HOSE ASSEMBLY, oil supply (See HOSE PARTS)
	70919778	1	CONNECTOR, flare type, 5/16" tube, 1/4"NPT male
	70919766	1	CONNECTOR, flare type, 5/16" tube, 1/8"NPT male
13	74376529	1	BRACKET, pump mounting
	70917673	1	PLUG, pipe, hex-socket, 1/8"NPT (Early units)
	70918850	1	PLUG, pipe, hex-socket, 1/4"NPT (Late units)
	70916311	4	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	4	LOCKWASHER, 1/2"
14	74253286	2	PIN, dowel, mounting bracket
15	74255665	4	O-RING, mounting bracket
16	74379038	1	COUPLING, oil drain, pump to bracket
17	74355843	3	SEAL, anti-tampering



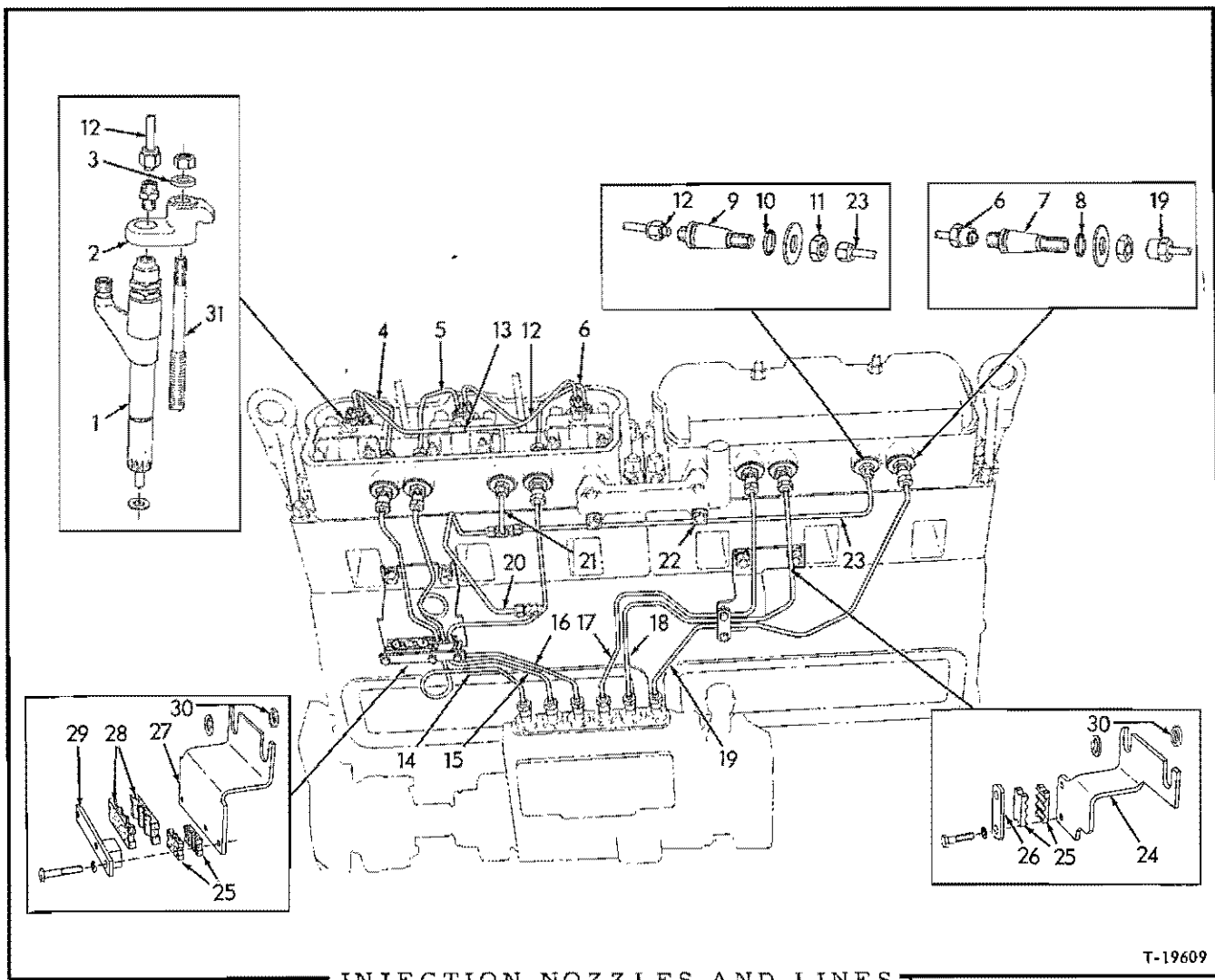
USAGE: Tractors prior to serial No. 4001 (HD844 series engine)

ITEM	PART NO.	QTY.	DESCRIPTION
1	74363761	6	HOLDER ASSEMBLY, nozzle (Includes items 2 thru 12)
2	74511217	6	NUT, nozzle
3	74380445	6	NOZZLE ASSEMBLY (1 body and 1 valve)
4	-----	6	BODY, nozzle holder (Not serviced separately)
5	74040094	6	SPINDLE, nozzle holder
6	74371121	6	SPRING, nozzle holder
7	-----	6	SEAT, nozzle holder spring (Early units)(Order SCREW 74047538)
8	-----	6	SCREW, nozzle holder spring (Early units)(Order SCREW 74047538)
	74047538	6	SCREW, nozzle holder spring (Late units)
9	74040096	6	NUT, nozzle holder spring
10	74040098	6	NUT, nozzle holder screw
11	74372113	6	GASKET, nozzle holder cap
12	74040099	6	CAP, nozzle holder
13	74511204	6	□GASKET, nozzle holder
14	74335573	12	STUD, nozzle holder
	70910123	12	NUT, 3/8"NF
	70904206	12	LOCKWASHER, 3/8"

(Continued)

INJECTION NOZZLES AND LINES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
15	74501149	12	SLEEVE, tube
16	74506426	12	NUT, tube
17	74016034	1	CLAMP, tube
	70901172	1	SCREW, machine, #10-24NC x 1-1/2"
	70910243	1	WASHER, plain, #10
	70904203	1	LOCKWASHER, #10
	70901310	1	NUT, #10-24NC
18	74363817	1	SLEEVE, tube clamp (rubber)
19	74366249	1	CLIP, supporting, tube clamp
20	74352301	2	CLAMP, tube (2 grooves)
	70905657	2	CAPSCREW, 1/4"NC x 1"
	70904204	2	LOCKWASHER, 1/4"
	70910880	2	NUT, 1/4"NC
21	74350533	6	CLAMP, tube (3 grooves)
	70905657	6	CAPSCREW, 1/4"NC x 1"
	70904204	6	LOCKWASHER, 1/4"
	70910880	6	NUT, 1/4"NC
22	74366194	1	TUBE, fuel injection (#6 cylinder)
23	74372867	1	TUBE, fuel injection (#5 cylinder)
24	74372866	1	TUBE, fuel injection (#4 cylinder)
25	74366191	1	TUBE, fuel injection (#3 cylinder)
26	74366190	1	TUBE, fuel injection (#2 cylinder)
27	74366189	1	TUBE, fuel injection (#1 cylinder)
	-----	1	MANIFOLD, fuel return (Used prior to engine #16-2716. Order 1 MANIFOLD ASSY. 74375652, 1 TEE 70919041, 1 ADAPTER 70917032 and 5 ELBOWS 70919040)
	70911437	6	NUT, compression, 1/4" tube
	70911435	6	SLEEVE, compression, 1/4" tube (brass)
	74349376	5	ELBOW, compression, 1/4" tube, 1/8"NPT male
	70917323	1	TEE, compression, 1/4" tube, 1/8"NPT male
28	74375652	1	MANIFOLD ASSEMBLY, fuel return (Includes NUTS and SLEEVES indented below)(Effective with engine #16-2716)
	70917809	6	NUT, Imperial, 1/4" tube
	70917806	6	SLEEVE, Imperial, 1/4" tube (rubber)
	70919040	5	ELBOW, Imperial, 1/4" tube, 1/8"NPT male
	70919041	1	TEE, Imperial, 1/4" tube, 1/8"NPT male
	70917032	1	ADAPTER, extension, 1/8"NPT male and female



INJECTION NOZZLES AND LINES

T-19609

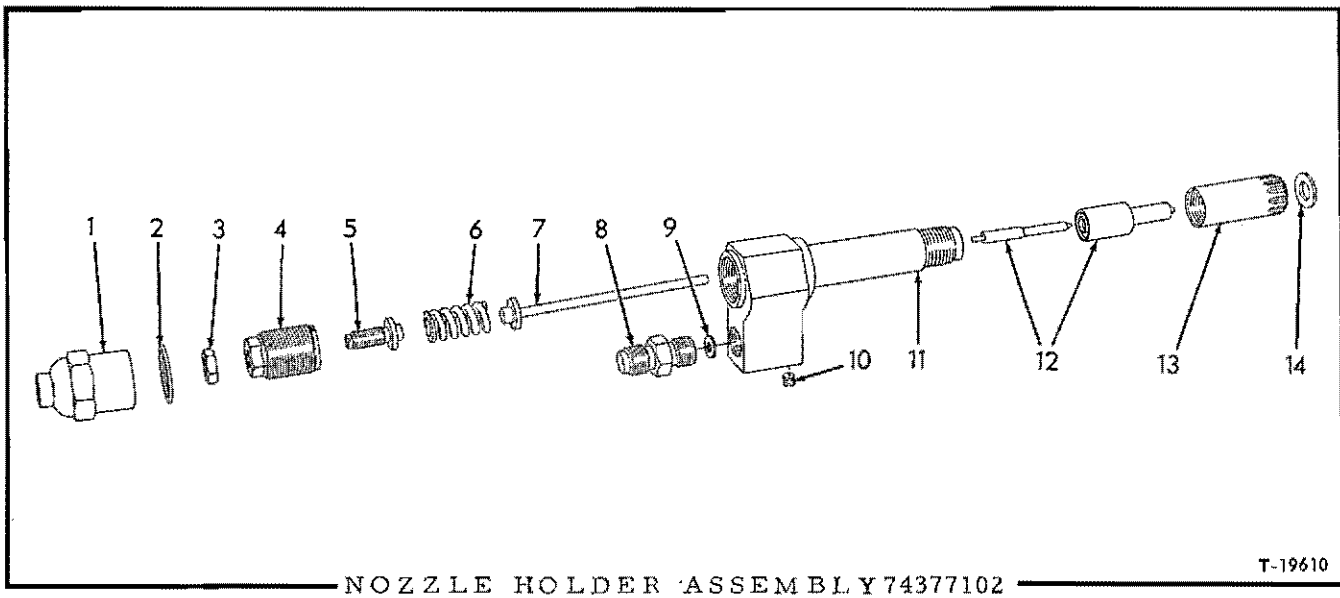
USAGE: Tractors serial No. 4001 and up (16000 series engine)

ITEM	PART NO.	QTY.	DESCRIPTION
1	74377102	6	HOLDER ASSEMBLY, nozzle (See page 142 for parts)(Used prior to engine #16-4630. Order HOLDER ASSEMBLY 74390623)
	74390623	6	HOLDER ASSEMBLY, nozzle (See page 143 for parts)(Effective with engine #16-4630)
2	74387384	6	CLAMP, nozzle holder
	70910123	6	NUT, 3/8"NF
3	74379572	6	WASHER, nozzle holder clamp
4	74376677	2	TUBE ASSEMBLY, fuel injection, internal (#1 and #4 cylinders. Includes nuts)
5	74376678	2	TUBE ASSEMBLY, fuel injection, internal (#2 and #5 cylinders. Includes nuts)
6	74376679	2	TUBE ASSEMBLY, fuel injection, internal (#3 and #6 cylinders. Includes nuts)

(Continued)

INJECTION NOZZLES AND LINES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
7	74376560	6	CONNECTOR, injection line
	70913289	6	WASHER, plain, U.S. std., 9/16"
	70919303	6	NUT, jam, 9/16"NF
8	70923379	6	□ O-RING, injection line connector
9	74378770	2	CONNECTOR, fuel return line
10	70923379	2	□ O-RING, return line connector
11	74377267	2	NUT, return line connector (1/2"-24)
	70900818	2	WASHER, plain, U.S. std., 1/2"
12	74376713	2	MANIFOLD ASSEMBLY, fuel return (Includes NUTS and SLEEVES indented below)
	70917809	8	NUT, Imperial, 1/4" tube
	74255956	8	□ SLEEVE, Imperial, 1/4" tube (rubber)
	70919800	6	CONNECTOR, Imperial, 1/4" tube, 1/8"NPT male
13	74377382	2	CLIP, manifold supporting
14	74377012	1	TUBE ASSEMBLY, fuel injection, external (#1 cylinder. Includes nuts)
15	74377013	1	TUBE ASSEMBLY, fuel injection, external (#2 cylinder. Includes nuts)
16	74377014	1	TUBE ASSEMBLY, fuel injection, external (#3 cylinder. Includes nuts)
17	74377015	1	TUBE ASSEMBLY, fuel injection, external (#4 cylinder. Includes nuts)
18	74377016	1	TUBE ASSEMBLY, fuel injection, external (#5 cylinder. Includes nuts)
19	74377017	1	TUBE ASSEMBLY, fuel injection, external (#6 cylinder. Includes nuts)
20	74377265	1	TUBE ASSEMBLY, fuel return (Includes NUTS and SLEEVES indented below)
	70917809	2	NUT, Imperial, 1/4" tube
	70917806	2	SLEEVE, Imperial, 1/4" tube (rubber)
	70919797	1	TEE, Imperial, 1/4" tube
	70920242	1	CONNECTOR, Imperial, 1/4" tube, 1/4"NPT male
21	74377266	1	TUBE ASSEMBLY, fuel return, front (Includes NUTS and SLEEVES indented below)
	70917809	2	NUT, Imperial, 1/4" tube
	70917806	2	SLEEVE, Imperial, 1/4" tube (rubber)
22	74377382	2	CLIP, fuel return tube
23	74376716	1	TUBE ASSEMBLY, fuel return, rear (Includes NUTS and SLEEVES indented below)
	70917809	2	NUT, Imperial, 1/4" tube
	70917806	2	SLEEVE, Imperial, 1/4" tube (rubber)
24	74377257	1	BRACKET, supporting, rear injection lines
	70910244	2	WASHER, plain, SAE std., 1/2"
25	74507359	4	SPACER, injection lines (rubber)
26	74507415	1	PLATE, clamping, rear injection lines
	70915407	2	CAPSCREW, 1/4"NC x 1-1/8"
	70904204	2	LOCKWASHER, 1/4"
27	74377252	1	BRACKET, supporting, front injection lines and fuel hoses
	70910244	2	WASHER, plain, SAE std., 1/2"
28	74377253	2	INSERT, fuel hose clamp (rubber)
29	74377254	1	CLAMP, front injection lines and fuel hoses
	70916286	3	CAPSCREW, 1/4"NC x 1-1/2"
	70904204	3	LOCKWASHER, 1/4"
30	74372864	8	WASHER, backing, injection line bracket
31	-----	-	STUD, nozzle holder clamp (See VALVE OPERATING MECHANISM)

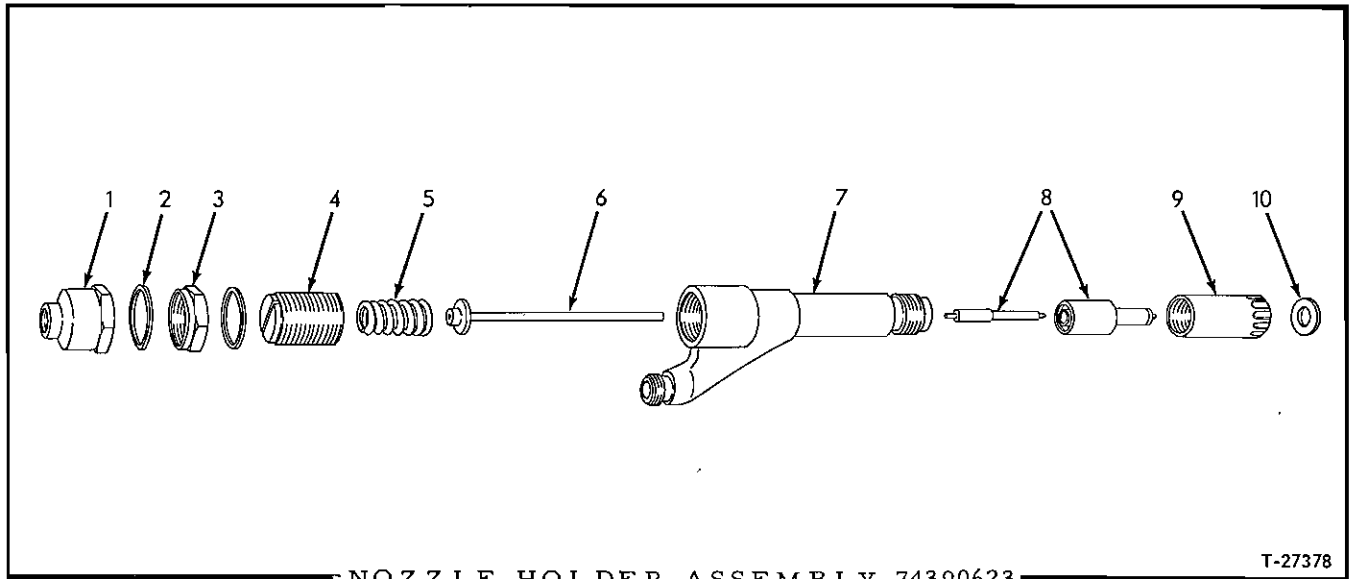


USAGE: See page 140

ITEM PART NO. QTY. DESCRIPTION

NOTE: Quantities indicated are for one (1) Holder Assembly only

1	74050524	1	CAP, protective
2	74049282	1	GASKET, protective cap
3	74050523	1	NUT, locking, adjusting screw
4	74050520	1	NUT, spring retaining
5	74051839	1	SCREW, adjusting (Includes seat)
6	74050519	1	SPRING
7	74050517	1	SPINDLE ASSEMBLY (1 spindle and 1 seat)
8	74050526	1	STUD, fuel inlet
9	74050857	1	GASKET, fuel inlet stud
10	-----	1	PLUG (Not serviced separately)
11	-----	1	BODY (Not serviced separately)
12	74378021	1	NOZZLE ASSEMBLY (Includes item 14)
13	74050516	1	NUT, nozzle retaining
14	74378031	1	□ GASKET, nozzle

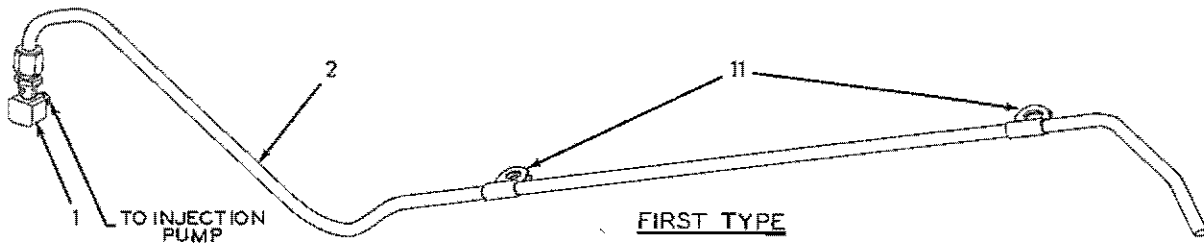


USAGE: See page 140

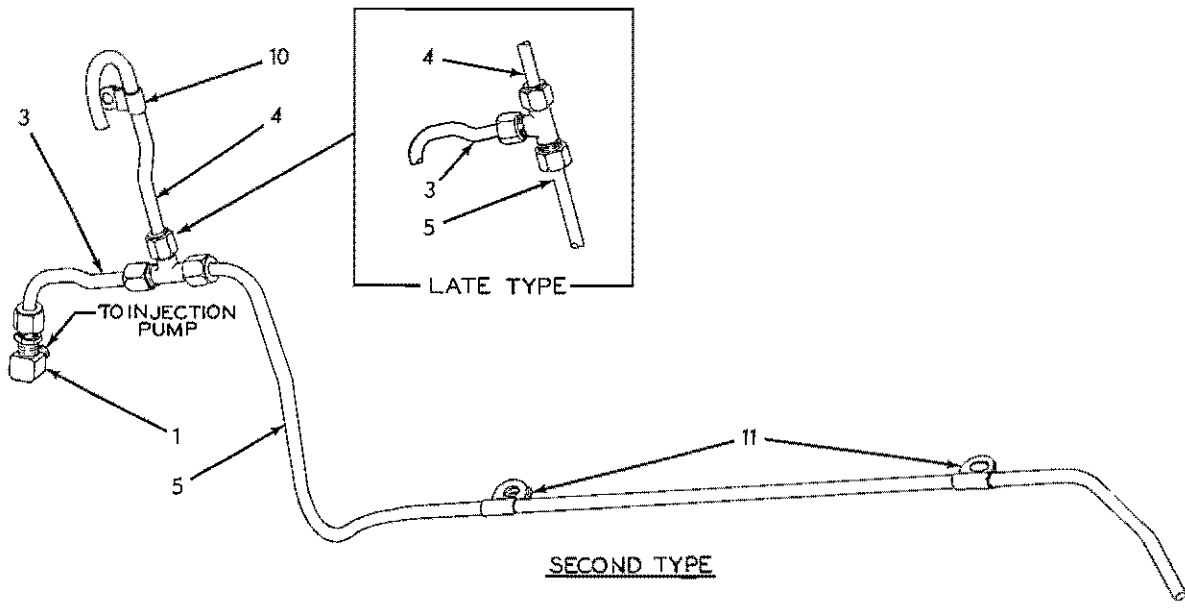
ITEM PART NO. QTY. DESCRIPTION

NOTE: Quantities indicated are for one (1) Holder Assembly only

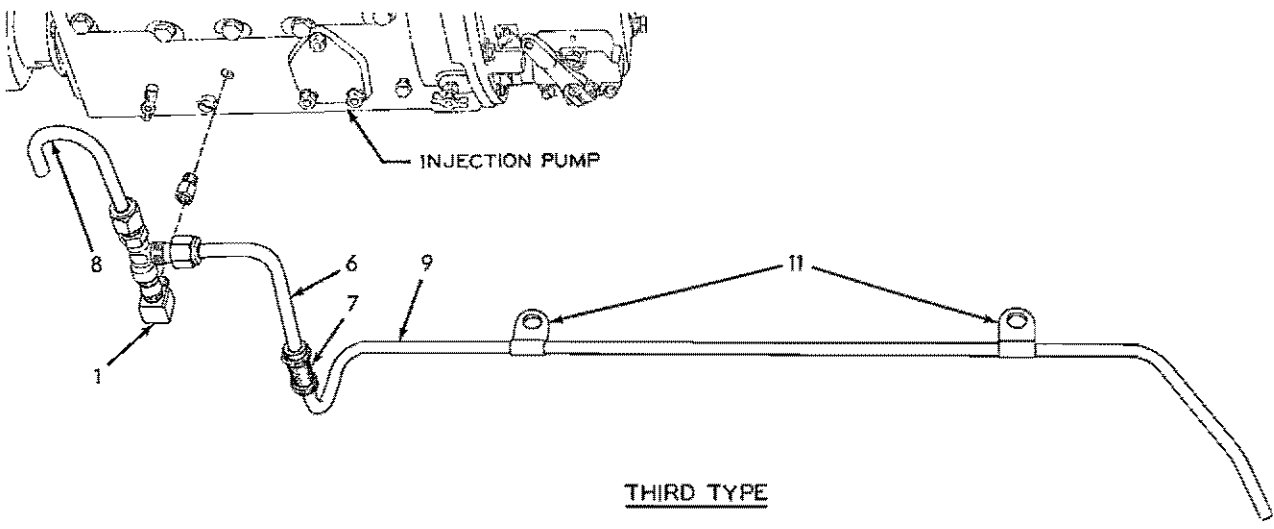
1	74378032	1	NUT, cap
2	74511243	2	GASKET, cap nut
3	74511213	1	NUT, locking
4	74378033	1	SCREW, adjusting
5	74380652	1	SPRING
6	74380198	1	SPINDLE
7	-----	1	BODY (Not serviced separately)
8	74378021	1	NOZZLE ASSEMBLY (Includes item 10)
9	74378034	1	NUT, nozzle retaining
10	74378031	1	□ GASKET, nozzle



FIRST TYPE



SECOND TYPE



THIRD TYPE

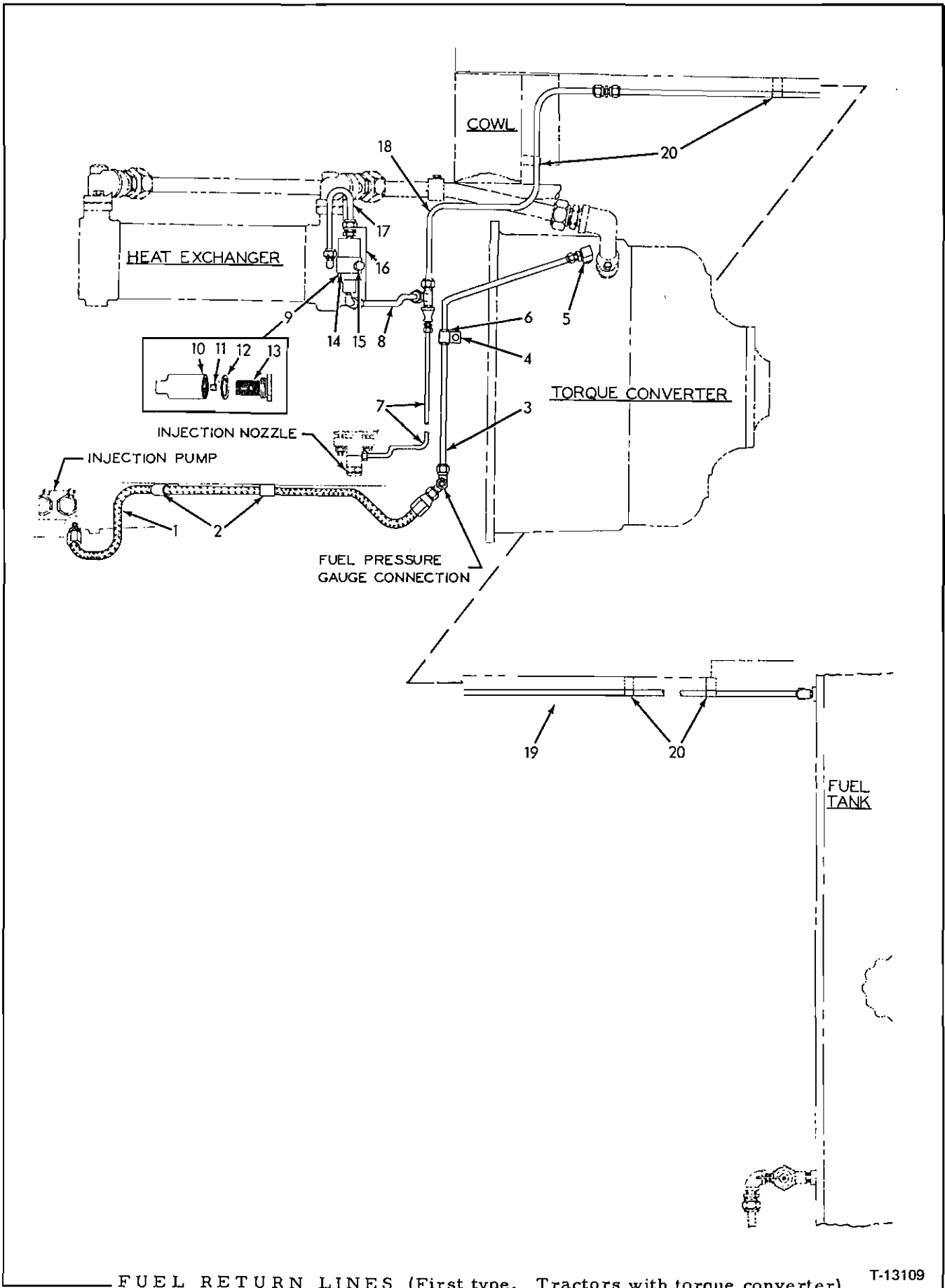
INJECTION PUMP OVERFLOW LINE

USAGE: Tractors prior to serial No. 4001

- * Tractors prior to serial No. 463
- ** Tractors serial No. 463 thru 1017 and No. 1979 and up, excluding EXCEPTIONS listed below.
- *** Tractors serial No. 1018 thru No. 1978, including EXCEPTIONS listed below.

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70047852	1	1	1	ELBOW, fuel overflow tube
	70917032	-	-	1	ADAPTER, pipe extension, 1/8"NPT male and female
2	70084902	1	-	-	TUBE, fuel overflow
	70918325	1	-	-	NUT, Sealastic, 3/8" tube
	70915367	1	-	-	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915368	1	-	-	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male
3	70086977	-	1	-	TUBE, fuel overflow, front
	70918325	-	2	-	NUT, Sealastic, 3/8" tube
	70915367	-	2	-	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915368	-	1	-	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male
4	70086967	-	1	-	TUBE, fuel overflow vent
	70918325	-	1	-	NUT, Sealastic, 3/8" tube
	70915367	-	1	-	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915371	-	1	-	TEE, union, Sealastic, 3/8" tube
5	70086983	-	1	-	TUBE, fuel overflow, rear (Used prior to tractor #1979)
	70088357	-	1	-	TUBE, fuel overflow, rear (Effective with tractor #1979)
	70918325	-	1	-	NUT, Sealastic, 3/8" tube
	70915367	-	1	-	RING, Sealastic, 3/8" tube (Includes ferrule)
6	70090990	-	-	1	TUBE, overflow, front
	70918325	-	-	1	NUT, Sealastic, 3/8" tube
	70915367	-	-	1	RING, Sealastic, 3/8" tube (Includes ferrule)
7	70090991	-	-	1	HOSE, rear overflow tube
	70918696	-	-	2	CLAMP, hose, 5/8" diam.
8	70090989	-	-	1	TUBE, overflow vent
	70918325	-	-	1	NUT, Sealastic, 3/8" tube
	70915367	-	-	1	RING, Sealastic, 3/8" tube (Includes ferrule)
	70918775	-	-	1	TEE, service, Sealastic, 3/8" tube, 1/4"NPT female
	70904708	-	-	1	NIPPLE, pipe, 1/4"NPT x 1-1/4"
9	70090993	-	-	1	TUBE, fuel overflow, rear
10	70086963	-	1	-	CLIP, vent tube
11	70043344	2	2	2	CLIP, rear overflow tube

EXCEPTIONS: Tractors serial No. 1980, 1982, 1985, 1987, 1990, 1992, 1995, 1997, 2000, 2002, 2005, 2007, 2010 and 2012



FUEL RETURN LINES (First type. Tractors with torque converter) T-13109

FUEL RETURN LINES

USAGE: Tractors with torque converter prior to serial No. 4001

* Model HD16AC, DC
 ** Model HD16FC, GC

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70087017	1	1	HOSE ASSEMBLY, injection pump fuel return (See HOSE PARTS)
	70915859	1	1	TEE, service, Sealastic, 3/8" tube, 1/4"NPT
	70915291	1	1	ELBOW, flare type, 3/8" tube, 1/4"NPT female
2	70051311	2	2	CLIP, hose supporting (5/8" diam., 17/32" bolt-hole)
3	70083984	1	1	TUBE, injection pump to converter (Not used on Model HD16GC)(Used prior to tractor #2921)
	70093785	1	1	TUBE, injection pump to converter (Not used on Model HD16GC)(Effective with tractor #2921)
	70087969	-	1	TUBE, injection pump to converter (Model HD16GC only)
	70918325	2	2	NUT, Sealastic, 3/8" tube
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915368	1	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male
4	70050686	1	1	CLIP, tube supporting (5/8" diam., 7/16" bolt-hole)
5	70047852	1	1	ELBOW, return line (90°, 1/8"NPT male, 1/4"NPT female)
6	70086793	1	1	SLEEVE, tube protecting (rubber)
7	70083420	1	1	TUBE, injection nozzle fuel return (Used prior to engine #16-2716)
	70911437	2	2	NUT, compression, 1/4" tube
	70911435	2	2	SLEEVE, compression, 1/4" tube (brass)
	70910197	1	1	CONNECTOR, compression, 1/4" tube, 1/8"NPT male (Includes nut and sleeve)
	70907061	1	1	COUPLING, pipe reducing, 1/4"NPT to 1/8"NPT
	70094239	1	1	TUBE, injection nozzle fuel return (Effective with engine #16-2716)
	70917809	2	2	NUT, Imperial, 1/4" tube
	70917806	2	2	SLEEVE, Imperial, 1/4" tube (rubber)
	70917812	1	1	CONNECTOR, Imperial, 1/4" tube, 1/8"NPT male (Includes nut and sleeve)
70907061	1	1	COUPLING, pipe reducing, 1/4"NPT to 1/8"NPT	
8	70083417	1	1	TUBE, tee to filter
	70918325	2	2	NUT, Sealastic, 3/8" tube
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915859	1	1	TEE, service, Sealastic, 3/8" tube, 1/4"NPT male
	70915369	1	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male
9	70079044	1	1	FILTER ASSEMBLY (Consists of items 10 thru 13)
10	70052701	1	1	BODY, filter
11	70079043	1	1	PLUG, filter restricting
12	70042744	1	1	GASKET, filter

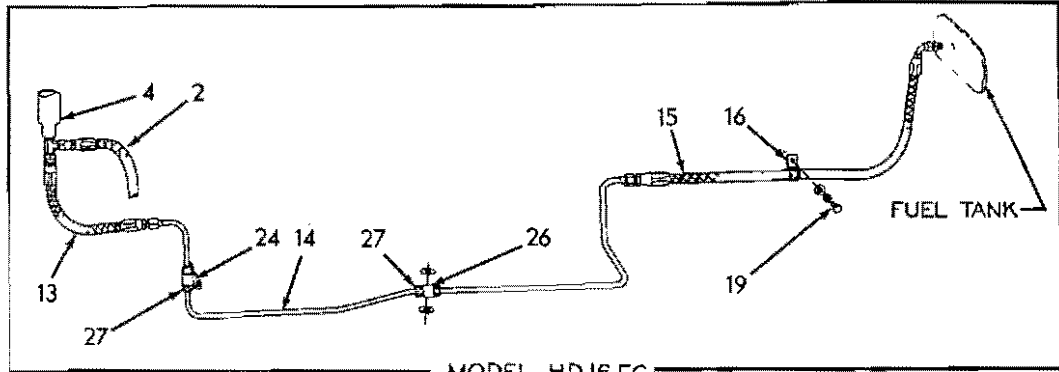
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FUEL RETURN LINES (Continued)

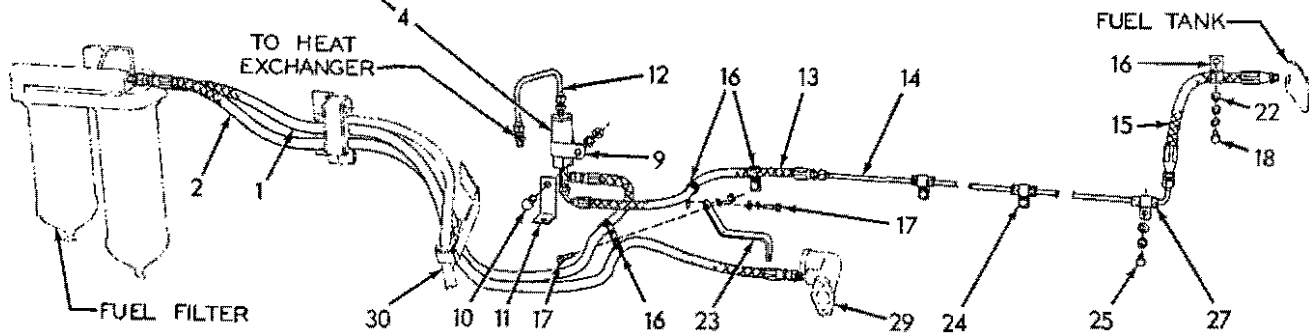
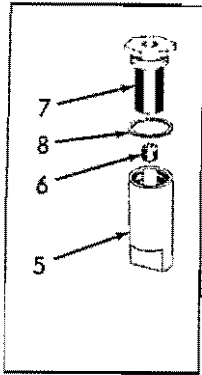
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
13	70052702	1	1	SCREEN, filter
14	70053096	1	1	CLIP, filter supporting
15	70070467	1	1	CAPSCREW, 1/2"NF x 1"
	70904208	1	1	LOCKWASHER, 1/2"
	70911043	1	1	NUT, 1/2"NF
16	70082245	1	1	PLATE, filter mounting
17	70082239	1	1	TUBE, filter to heat exchanger
	70918325	2	2	NUT, Sealastic, 3/8" tube
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915368	1	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male
	70915369	1	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male
18	70083419	1	-	TUBE, intermediate
	70087900	-	1	TUBE, intermediate
	70918325	2	2	NUT, Sealastic, 3/8" tube
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915386	1	1	UNION, Sealastic, 3/8" tube
19	70083422	1	-	TUBE, rear
	70087818	-	1	TUBE, rear
	70918325	2	2	NUT, Sealastic, 3/8" tube
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915369	1	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT
20	70040796	4	1	CLIP, tube supporting (3/8" diam., 13/32" bolt-hole)
	70036034	4	-	CAPSCREW, 3/8"NF x 1"
	70035979	-	1	CAPSCREW, 3/8"NF x 5/8"
	70904206	4	1	LOCKWASHER, 3/8"
	70911115	4	-	WASHER, plain, SAE std., 3/8"
21	70043344	-	2	CLIP, tube supporting (3/8" diam., 9/16" bolt-hole)
	70910244	-	4	WASHER, plain, SAE std., 1/2"

} Not illustrated

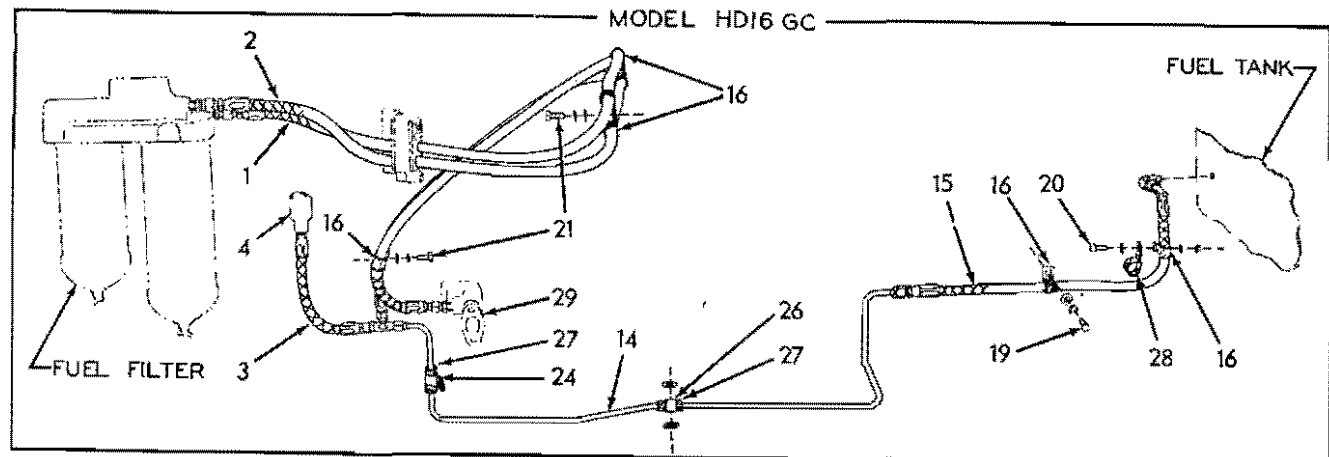
MEMO



MODEL HD16 FC



MODEL HD16 GC



T-19514

FUEL RETURN LINES (Second type. Tractors with torque converter)

FUEL RETURN LINES

USAGE: Tractors with torque converter effective with serial No. 4001

* Models HD16AC, DC
 ** Model HD16FC
 *** Model HD16GC

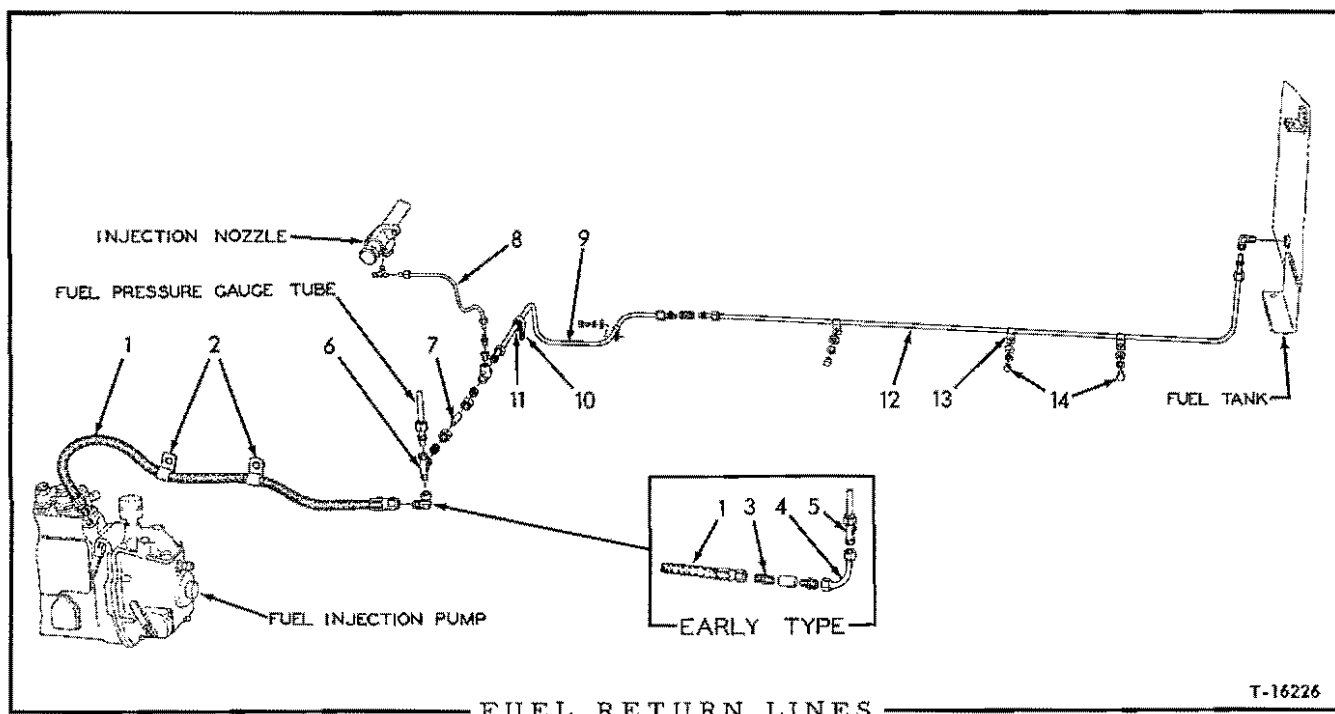
ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70096192	1	1	-	HOSE ASSEMBLY, torque converter charging (See HOSE PARTS)
	70094306	-	-	1	HOSE ASSEMBLY, torque converter charging (See HOSE PARTS)
	70919062	2	2	2	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
2	70094302	1	1	-	HOSE ASSEMBLY, fuel return, front (See HOSE PARTS)
	70094306	-	-	1	HOSE ASSEMBLY, fuel return, front (See HOSE PARTS)
	70919062	1	1	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
	70919483	1	1	-	TEE, flare type, 3/8" tube, 1/4"NPT male
	70919087	-	-	1	TEE, flare type, 3/8" tube
3	70097481	-	-	1	HOSE ASSEMBLY, tee to filter (See HOSE PARTS)
4	70079044	1	1	1	FILTER ASSEMBLY (Consists of items 5 thru 8)
5	70052701	1	1	1	BODY, filter
6	70079043	1	1	1	PLUG, filter restricting
7	70052702	1	1	1	SCREEN, filter
8	70042744	1	1	1	GASKET, filter
9	70053096	1	1	1	CLIP, filter supporting
10	70070467	1	1	1	CAPSCREW, 1/2"NF x 1"
	70904208	1	1	1	LOCKWASHER, 1/2"
	70911043	1	1	1	NUT, 1/2"NF
11	70097331	1	1	1	ANGLE, clip attaching
12	70095688	1	1	1	TUBE ASSEMBLY, filter to heat exchanger (In- cludes nuts)
	70919062	2	2	2	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
13	70095583	1	-	-	HOSE ASSEMBLY, fuel return, intermediate (See HOSE PARTS)
	70097634	-	1	-	HOSE ASSEMBLY, fuel return, intermediate (See HOSE PARTS)

(Continued)

FUEL RETURN LINES (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
14	70094219	1	-	-	TUBE ASSEMBLY, fuel return (Includes nuts)(Used prior to tractor #5154, excluding #5104)
	70623853	1	-	-	TUBE ASSEMBLY, fuel return (Includes nuts)(Effective with tractor #5154, including #5104)
	70094576	-	1	1	TUBE ASSEMBLY, fuel return (Includes nuts)(Used prior to tractor #5154)
	70623926	-	1	1	TUBE ASSEMBLY, fuel return (Includes nuts)(Effective with tractor #5154)
15	70099591	1	-	-	HOSE ASSEMBLY, fuel return, rear (See HOSE PARTS) (Used prior to tractor #5154, excluding #5104)
	70623850	1	-	-	HOSE ASSEMBLY, fuel return, rear (See HOSE PARTS) (Effective with tractor #5154, including #5104)
	70094533	-	1	-	HOSE ASSEMBLY, fuel return, rear (See HOSE PARTS)
	70095057	-	-	1	HOSE ASSEMBLY, fuel return, rear (See HOSE PARTS)
	70919062	1	1	-	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male (Not used on Models HD16AC, DC after tractor #5154, including #5104)
	70919135	-	-	1	ELBOW, flare type, 3/8" tube, 1/4"NPT male
16	70094422	5	3	8	CLIP, hose supporting
17	70036034	2	1	-	CAPSCREW, 3/8"NF x 1"
18	70012992	1	-	-	CAPSCREW, 3/8"NF x 1-1/4"
19	70035979	-	1	1	CAPSCREW, 3/8"NF x 5/8"
20	70035167	-	-	1	CAPSCREW, 3/8"NF x 7/8"
21	70036032	-	-	3	CAPSCREW, 3/8"NF x 3/4"
	70911115	3	1	5	WASHER, plain, SAE std., 3/8"
	70904206	3	2	5	LOCKWASHER, 3/8"
	70911041	1	1	1	NUT, 3/8"NF
22	70044973	1	-	-	WASHER, plain (For spacing)
23	70098185	1	1	-	ANGLE, hose supporting clip
24	70055234	3	1	1	CLIP, tube supporting
25	70036034	3	-	-	CAPSCREW, 3/8"NF x 1"
	70904206	3	-	-	LOCKWASHER, 3/8"
	70911115	3	-	-	WASHER, plain, SAE std., 3/8"
26	70603830	-	1	1	CLIP, tube supporting (1 additional used prior to tractor #5154)
	70910244	-	2	2	WASHER, plain, SAE std., 1/2" (spacing)(2 additional used prior to tractor #5154)
27	70093751	3	2	2	BOOT, tube protecting (1 additional used on Model HD16FC, GC prior to tractor #5154)
28	70041303	-	-	1	CLIP, hose clip attaching
29	-----	1	1	1	ELBOW (See TORQUE CONVERTER AND PIPING)
30	-----	1	1	1	HOSE ASSEMBLY (See FUEL SUPPLY LINE)

MEMO



USAGE: Tractors without torque converter prior to serial No. 4001

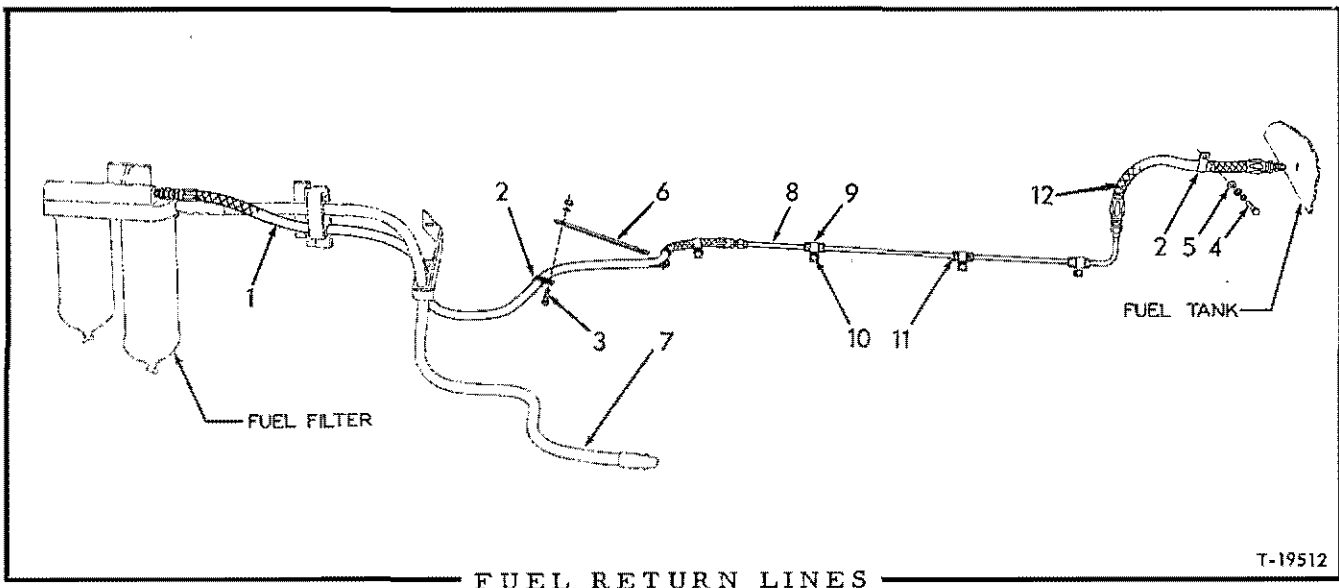
* Tractors prior to serial No. 2047
 ** Effective with tractor serial No. 2047

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70087017	1	1	HOSE ASSEMBLY, injection pump fuel return (See HOSE PARTS)
2	70051311	2	2	CLIP, hose supporting
3	70912324	1	-	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male COUPLING, pipe, 1/4"NPT
	70901764	1	-	
4	70087064	1	-	TUBE, injection pump fuel return NUT, Sealastic, 3/8" tube RING, Sealastic, 3/8" tube (Includes ferrule) CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male
	70918325	2	-	
	70915367	2	-	
	70915368	1	-	
5	70087059	1	-	TEE, restricted (Sealastic, 3/8" tube)
6	70090901	-	1	TEE, restricted (Sealastic, 3/8" tube side and end, 1/4"NPT end) ELBOW, flare type, 3/8" tube, 1/4"NPT female
	70915291	-	1	
7	70087142	1	1	TUBE, tee connecting (1-1/2" long) NUT, Sealastic, 3/8" tube RING, Sealastic, 3/8" tube (Includes ferrule) TEE, Sealastic, 3/8" tube ends, 1/4"NPT female side
	70918325	2	2	
	70915367	2	2	
	70917895	1	1	

(Continued)

FUEL RETURN LINES (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
8	70087158	1	1	TUBE, injection nozzle fuel return (Used prior to engine #16-2716)
	70911437	2	2	NUT, compression, 1/4" tube
	70911435	2	2	SLEEVE, compression, 1/4" tube (brass)
	70910197	1	1	CONNECTOR, compression, 1/4" tube, 1/8"NPT male (Includes nut and sleeve)
	70901825	1	1	BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT
	70093796	-	1	TUBE, injection nozzle fuel return (Effective with engine #16-2716)
	70917809	-	2	NUT, Imperial, 1/4" tube
	70917806	-	2	SLEEVE, Imperial, 1/4" tube (rubber)
	70917812	-	1	CONNECTOR, Imperial, 1/4" tube, 1/8"NPT (Includes nut and sleeve)
	70901825	-	1	BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT
9	70087143	1	1	TUBE, intermediate
	70918325	2	2	NUT, Sealastic, 3/8" tube
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915386	1	1	UNION, Sealastic, 3/8" tube
10	70050686	1	1	CLIP, tube supporting (5/8" diam., 7/16" bolt-hole)
11	70086793	1	1	SLEEVE, intermediate tube clip (rubber)
12	70083422	1	1	TUBE, rear
	70918325	2	2	NUT, Sealastic, 3/8" tube
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915369	1	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male
13	70040796	4	4	CLIP, tube supporting (3/8" diam., 13/32" bolt-hole)
14	70036034	4	4	CAPSCREW, 3/8"NF x 1"
	70904206	4	4	LOCKWASHER, 3/8"
	70911115	4	4	WASHER, plain, SAE std., 3/8"



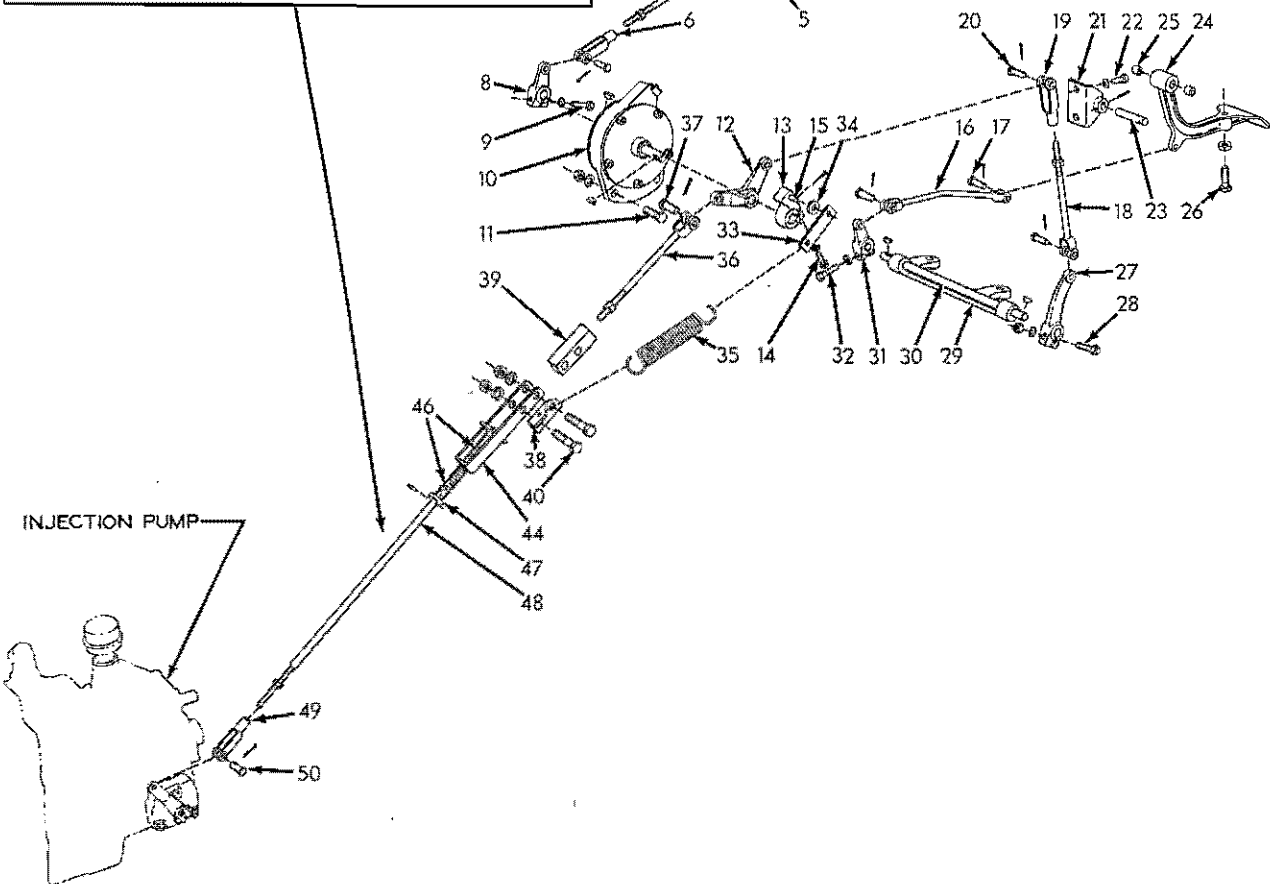
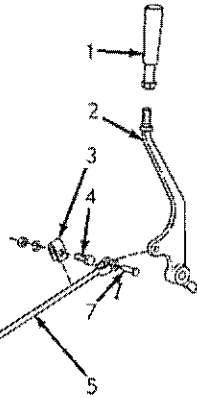
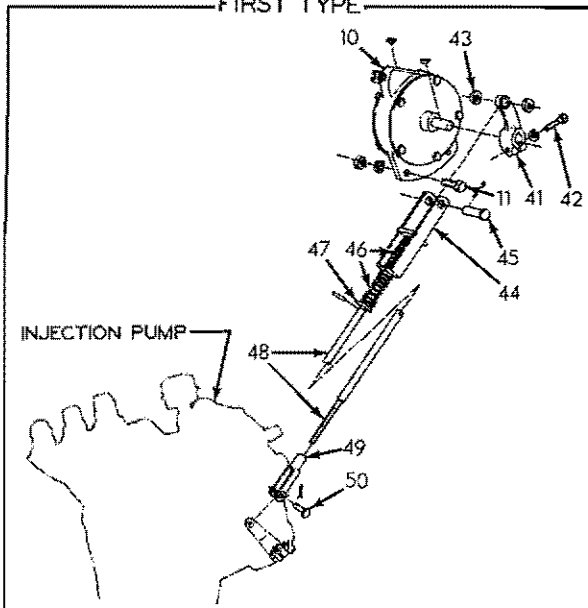
USAGE: Tractors without torque converter effective with serial No. 4001

* Tractors prior to serial No. 5154
 ** Tractors serial No. 5154 and up

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70096022	1	1	HOSE ASSEMBLY, front (See HOSE PARTS)
	70919062	1	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
2	70094422	3	4	CLIP, hose supporting
3	70036034	3	3	CAPSCREW, 3/8"NF x 1"
4	70012992	-	1	CAPSCREW, 3/8"NF x 1-1/4"
	70911115	2	3	WASHER, plain, SAE std., 3/8"
5	70904206	3	4	LOCKWASHER, 3/8"
	70911041	1	1	NUT, 3/8"NF
6	70044973	-	1	WASHER, plain (For spacing)
7	70098213	1	1	PLATE, hose supporting clip
7	-----	-	-	HOSE ASSEMBLY (See FUEL SUPPLY LINES)
8	70094219	1	-	TUBE ASSEMBLY (Includes nuts)
	70623853	-	1	TUBE ASSEMBLY (Includes nuts)
9	70055234	3	3	CLIP, tube supporting
10	70036034	3	3	CAPSCREW, 3/8"NF x 1"
	70904206	3	3	LOCKWASHER, 3/8"
	70911115	3	3	WASHER, plain, SAE std., 3/8"
11	70093751	3	3	BOOT, tube protecting
12	70099591	1	-	HOSE ASSEMBLY, rear (See HOSE PARTS)
	70919062	1	-	CONNECTOR, flare type, 3/8" tube, 1/4" NPT male
	70623850	-	1	HOSE ASSEMBLY, rear (See HOSE PARTS)

MEMO

FIRST TYPE



THROTTLE CONTROL (First type. HD16A, AC, D, DC, FC)

T-19529

THROTTLE CONTROL

USAGE: Model HD16A, AC, D, DC, FC tractors prior to serial No. 4001

* Standard on Model HD16A, D tractors prior to serial No. 4001;
also Model HD16AC, DC, FC tractors prior to serial No. 2921.
** Standard on Model HD16AC, DC, FC tractors serial No. 2921
thru No. 4000; optional on Models HD16A, D.

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70078620	1	1	GRIP, operating lever
2	70074574	1	1	LEVER, operating
3	70080197	1	1	CLAMP, stop, upper rod
4	70012992	1	1	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	1	1	LOCKWASHER, 3/8"
	70911041	1	1	NUT, 3/8"NF
5	70083281	1	1	ROD, upper
	70911041	1	1	NUT, 3/8"NF
6	70628736	1	1	YOKE, upper rod
7	70078810	2	2	PIN, yoke, upper rod
	70900942	2	2	PIN, cotter, 3/32" x 5/8"
8	70040517	1	1	LEVER, upper rod
	70905121	1	1	KEY, #5 woodruff, 1/8" x 5/8"
9	70037450	1	1	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	1	1	LOCKWASHER, 5/16"
10	70081533	1	-	THROTTLE ASSEMBLY (See page 173 for parts)
	70092929	-	1	THROTTLE ASSEMBLY (See page 173 for parts)
11	70012992	2	2	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	2	LOCKWASHER, 3/8"
	70911041	2	2	NUT, 3/8"NF
12	70092884	-	1	LEVER, bellcrank
13	70094060	-	1	LEVER ASSEMBLY, retracting spring (Includes item 15)
	70905121	-	1	KEY, #5 woodruff, 1/8" x 5/8"
14	70045295	-	1	CAPSCREW, 5/16"NC x 1"
	70904205	-	1	LOCKWASHER, 5/16"
15	70094059	-	1	PIN, retracting spring lever
	70900942	-	1	PIN, cotter, 3/32" x 5/8"
16	70093807	-	1	ROD, decelerator pedal
17	70078810	-	2	PIN, yoke, decelerator pedal rod
	70900942	-	2	PIN, cotter, 3/32" x 5/8"
18	70092881	-	1	ROD, decelerator control
	70911041	-	1	NUT, 3/8"NF
19	70628736	-	1	YOKE, decelerator control rod
20	70078810	-	2	PIN, yoke, decelerator control rod
	70900942	-	2	PIN, cotter, 3/32" x 5/8"

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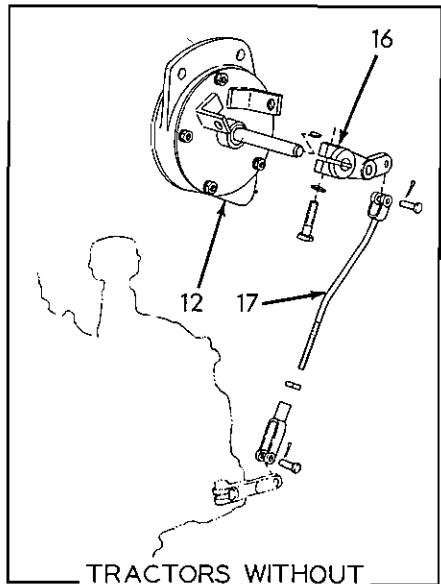
THROTTLE CONTROL (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
21	70092878	- 1	BRACKET, decelerator pedal
22	70036032	- 2	CAPSCREW, 3/8"NF x 3/4"
	70904206	- 2	LOCKWASHER, 3/8"
23	70093685	- 1	SHAFT, decelerator pedal
	70918111	- 1	PIN, roll, 1/8" x 1"
24	70092871	- 1	PEDAL ASSEMBLY, decelerator (Includes item 25)
25	70049988	- 2	BUSHING, decelerator pedal
26	70035733	- 1	CAPSCREW, pedal stop
	70911035	- 1	NUT, jam, 1/2"NC
27	70093797	- 1	LEVER, decelerator cross shaft, left
28	70041981	- 1	CAPSCREW, 5/16"NF x 1-1/2"
	70904205	- 1	LOCKWASHER, 5/16"
	70913636	- 1	NUT, 5/16"NF
29	70092894	- 1	BRACKET, decelerator cross shaft
30	70092893	- 1	SHAFT, cross, decelerator cross shaft
	70905121	- 2	KEY, #5 woodruff, 1/8" x 5/8"
31	70040517	- 1	LEVER, decelerator cross shaft, right
32	70037450	- 1	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	- 1	LOCKWASHER, 5/16"
33	70093077	- 1	CLIP, retracting spring, rear
34	70092665	- 1	WASHER, spacing, rear spring clip
35	70043881	- 1	SPRING, retracting
36	70092881	- 1	ROD, throttle control
	70911041	- 1	NUT, 3/8"NF
37	70078810	- 1	PIN, yoke, throttle control rod
	70900942	- 1	PIN, cotter, 3/32" x 5/8"
38	70093076	- 1	CLIP, retracting spring, front
39	70093078	- 1	BLOCK, rod connecting
40	70035336	- 2	CAPSCREW, 3/8"NF x 1-3/4"
	70904206	- 2	LOCKWASHER, 3/8"
	70911041	- 2	NUT, 3/8"NF
41	70055416	1 -	LEVER, lower rod
	70905121	1 -	KEY, #5 woodruff, 1/8" x 5/8"
42	70037450	1 -	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	1 -	LOCKWASHER, 5/16"
43	70081672	2 -	SPACER, lower rod yoke
44	70078967	1 -	YOKE, lower rod (rear)
	70093079	- 1	YOKE, lower rod (rear)

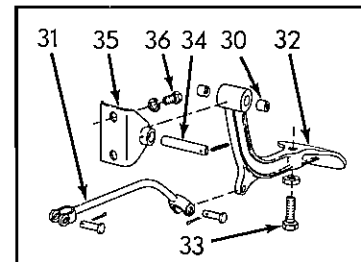
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THROTTLE CONTROL (Continued)

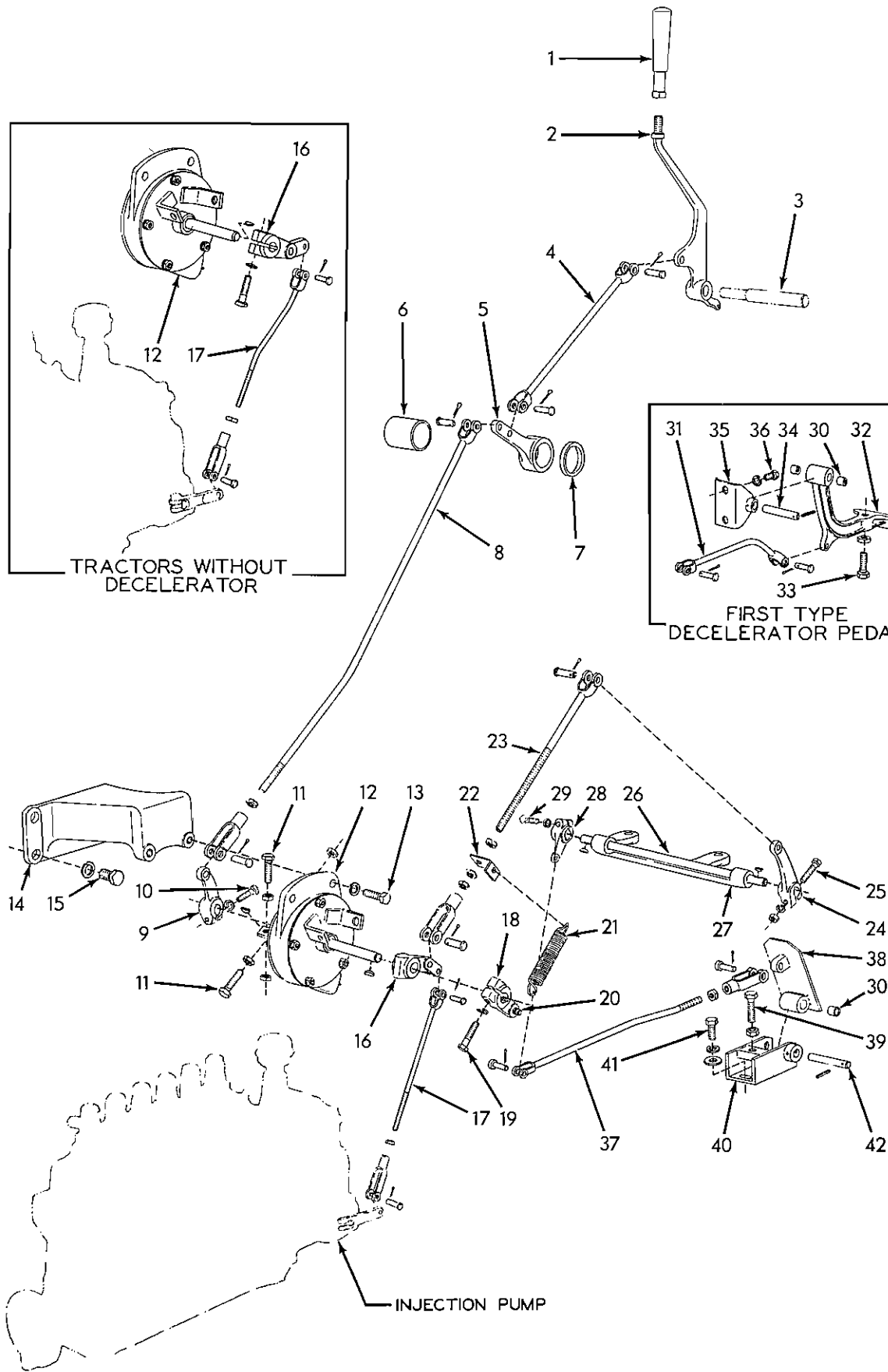
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
45	70082875	1	-	PIN, lower rod yoke (rear)
	70900942	1	-	PIN, cotter, 3/32" x 5/8"
46	70035910	2	2	SPRING, lower rod
47	70044973	1	1	WASHER, lower rod spring
48	70083385	1	-	ROD, lower
	70093137	-	1	ROD, lower
	70916202	1	1	PIN, roll, 1/8" x 7/8"
	70911040	1	1	NUT, 1/4"NF
49	70628737	1	1	YOKE, lower rod (front)
50	70628738	1	1	PIN, lower rod yoke (front)
	70900970	1	1	PIN, cotter, 1/16" x 1/2"



TRACTORS WITHOUT DECELERATOR



FIRST TYPE DECELERATOR PEDAL



THROTTLE CONTROL (Second type. HD16A, AC, D, DC, FC)

T-22618

THROTTLE CONTROL

USAGE: Model HD16A, AC, D, DC, FC tractors serial No. 4001 and up

* Standard on Models HD16A, D (No decelerator)
 ** Standard on Models HD16AC, DC, FC; optional on Models HD16A,
 D (Includes decelerator)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70078620	1	1	GRIP, operating lever
2	70074574	1	1	LEVER, operating
3	-----	-	-	SHAFT, operating lever (See STEERING LEVERS AND LINKAGE)
4	70097094	1	1	ROD, upper
	70078810	2	2	PIN, yoke, 3/8" diam.
	70900942	2	2	PIN, cotter, 3/32" x 5/8"
5	70096336	1	1	LEVER, upper rod
6	70087673	1	1	SPACER, lever (2-1/8" long)
7	70081132	1	1	SPACER, lever (5/16" thick)
8	70097097	1	1	ROD, intermediate
	70911048	1	1	NUT, jam, 3/8"NF
	70628736	1	1	YOKE, rod end, adjustable, 3/8"NF
	70078810	2	2	PIN, yoke, 3/8" diam.
	70900942	2	2	PIN, cotter, 3/32" x 5/8"
9	70055416	1	1	LEVER, intermediate rod
	70905121	1	1	KEY, #5 woodruff, 1/8" x 5/8"
10	70037450	1	1	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	1	1	LOCKWASHER, 5/16"
11	70036039	2	2	CAPSCREW, lever stop (3/8"NF x 1-3/8")
	70911048	2	2	NUT, jam, 3/8"NF
	70911041	2	2	NUT, 3/8"NF
12	70096350	1	1	THROTTLE ASSEMBLY (See page 173 for parts)
13	70012992	2	2	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	2	LOCKWASHER, 3/8"
14	70096341	1	1	BRACKET, throttle mounting
15	70097494	3	3	CAPSCREW, 1/2"NC x 1", (Nylok)
	70904208	3	3	LOCKWASHER, 1/2"
16	70097340	1	-	LEVER, lower rod
	70905121	1	-	KEY, #5 woodruff, 1/8" x 5/8"
	70037450	1	-	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	1	-	LOCKWASHER, 5/16"
	70096334	-	1	LEVER, decelerator rod
17	70097621	1	-	ROD, lower (offset)
	70096241	-	1	ROD, lower (straight)
	70910267	1	1	NUT, jam, 1/4"NF
	70628737	1	1	YOKE, rod end, adjustable, 1/4"NF
	70628738	2	2	PIN, yoke, 1/4" diam.
	70900970	2	2	PIN, cotter, 1/16" x 1/2"

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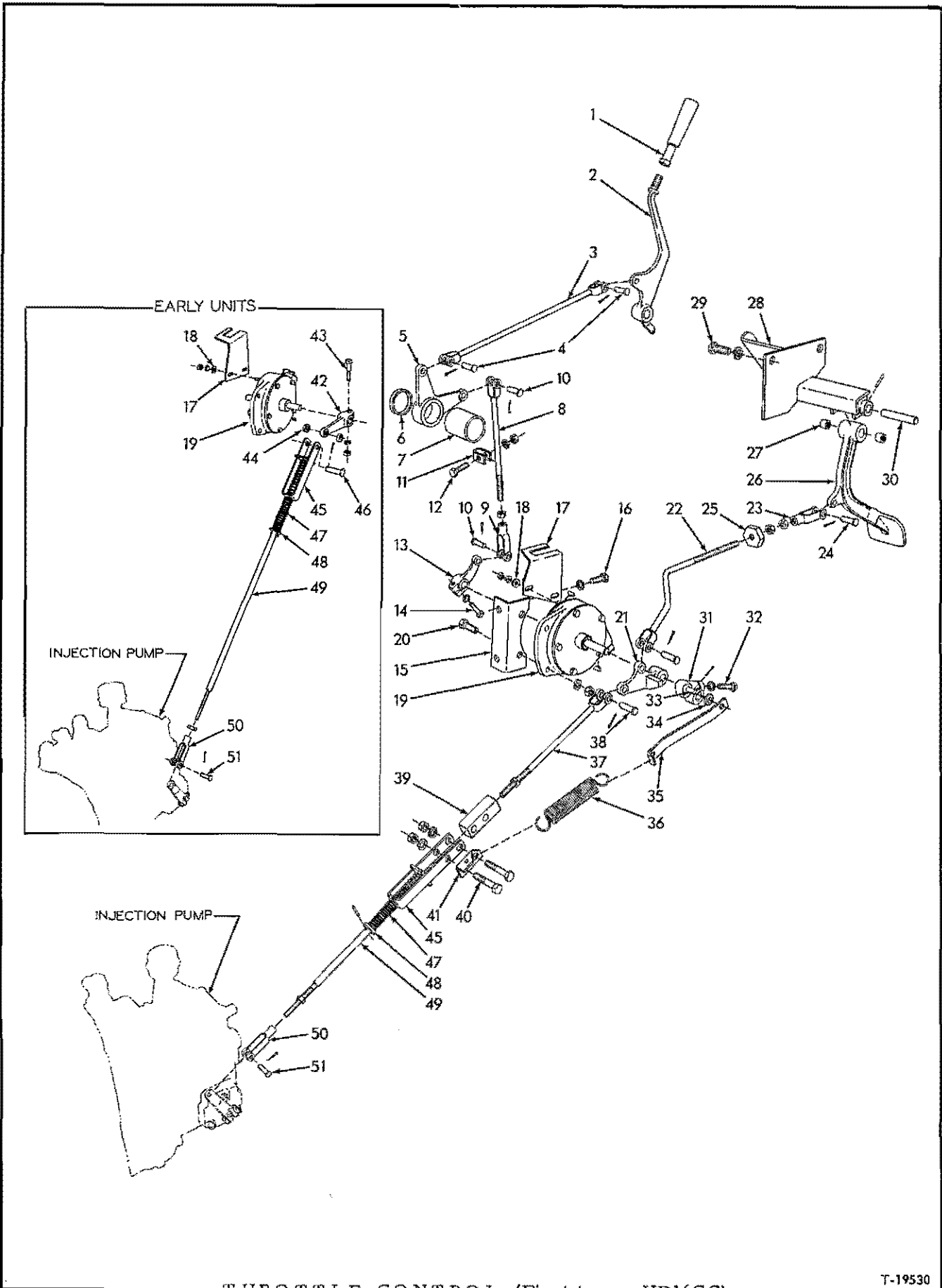
THROTTLE CONTROL (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
18	70096244	- 1	LEVER ASSEMBLY, retracting spring (Includes item 20)
	70905121	- 1	KEY, #5 woodruff, 1/8" x 5/8"
19	70037450	- 1	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	- 1	LOCKWASHER, 5/16"
20	70096242	- 1	PIN, retracting spring lever
21	70049108	- 1	SPRING, retracting
22	70096337	- 1	ANGLE, retracting spring
	70911048	- 2	NUT, jam, 3/8"NF
23	70097093	- 1	ROD, front, decelerator
	70911048	- 1	NUT, jam, 3/8"NF
	70628736	- 1	YOKE, rod end, adjustable, 3/8"NF
	70078810	- 2	PIN, yoke, 3/8" diam.
	70900942	- 2	PIN, cotter, 3/32" x 5/8"
24	70093797	- 1	LEVER, decelerator cross shaft, left
	70905121	- 1	KEY, #5 woodruff, 1/8" x 5/8"
25	70041981	- 1	CAPSCREW, 5/16"NF x 1-1/2"
	70904205	- 1	LOCKWASHER, 5/16"
	70913636	- 1	NUT, 5/16"NF
26	70097092	- 1	SHAFT, cross, decelerator control
27	70092894	- 1	BRACKET, decelerator cross shaft
28	70040517	- 1	LEVER, decelerator cross shaft, right
	70905121	- 1	KEY, #5 woodruff, 1/8" x 5/8"
29	70037450	- 1	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	- 1	LOCKWASHER, 5/16"
30	70049988	- 2	BUSHING, decelerator pedal
			<u>NOTE:</u> Items 31 thru 36 comprise the FIRST TYPE DECELERATOR PEDAL design used on tractors prior to serial No. 5099 ex- cluding No. 5047
31	70097095	- 1	ROD, rear, decelerator
	70078810	- 2	PIN, yoke, 3/8" diam.
	70900942	- 2	PIN, cotter, 3/32" x 5/8"
32	70092871	- 1	PEDAL ASSEMBLY, decelerator (Includes item 30)
33	70035733	- 1	CAPSCREW, pedal stop (1/2"NC x 1-3/8")
	70911035	- 1	NUT, jam, 1/2"NC
34	70093685	- 1	SHAFT, decelerator pedal
	70918111	- 1	PIN, roll, 1/8" x 1"
35	70092878	- 1	BRACKET, decelerator pedal
36	70036032	- 2	CAPSCREW, 3/8"NF x 3/4"
	70904206	- 2	LOCKWASHER, 3/8"

(Continued)

THROTTLE CONTROL (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
<p><u>NOTE:</u> Items 37 thru 42 comprise the SECOND TYPE DECELERATOR PEDAL design effective with tractor serial No. 5099 including No. 5047.</p>			
37	70621213	- 1	ROD, decelerator pedal
	70911048	- 1	NUT, jam, 3/8"NF
	70628736	- 1	YOKE, rod end, adjustable, 3/8"NF
	70078810	- 2	PIN, yoke, 3/8" diam.
	70900942	- 2	PIN, cotter, 3/32" x 5/8"
38	70620946	- 1	PEDAL ASSEMBLY, decelerator (Includes item 30)
39	70036203	- 1	SCREW, pedal stop
	70911035	- 1	NUT, jam, 1/2"NC
40	70620951	- 1	BRACKET, decelerator pedal
41	70044249	- 2	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	- 2	LOCKWASHER, 3/8"
	70911115	- 2	WASHER, plain, SAE std., 3/8"
42	70620955	- 1	SHAFT, decelerator pedal
	70918111	- 1	PIN, roll, 1/8" x 1"



THROTTLE CONTROL (First type. HD16GC)

T-19530

THROTTLE CONTROL

USAGE: Model HD16GC tractors prior to serial No. 4001

* Tractors prior to serial No. 3067
 ** Tractors serial No. 3067 and up

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70078620	1	1	GRIP, operating lever
2	70074574	1	1	LEVER, operating
3	70052569	1	1	ROD, upper
4	70078810	2	2	PIN, yoke, upper rod
	70900942	2	2	PIN, cotter, 3/32" x 5/8"
5	70087698	1	1	BELLCRANK, upper rod
6	70081132	1	1	SPACER, bellcrank (5/16" thick)
7	70087673	1	1	SPACER, bellcrank (2-1/8" thick)
8	70081593	1	1	ROD, intermediate
	70911041	1	1	NUT, 3/8"NF
9	70628736	1	1	YOKE, intermediate rod
10	70078810	2	2	PIN, yoke, intermediate rod
	70900942	2	2	PIN, cotter, 3/32" x 5/8"
11	70080197	1	1	CLAMP, stop, intermediate rod
12	70012992	1	1	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	1	1	LOCKWASHER, 3/8"
	70911041	1	1	NUT, 3/8"NF
13	70090438	1	1	LEVER, intermediate rod
	70905121	1	1	KEY, #5 woodruff, 1/8" x 5/8"
14	70037450	1	1	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	1	1	LOCKWASHER, 5/16"
15	70087639	1	1	BRACKET, throttle attaching
16	70036034	2	2	CAPSCREW, 3/8"NF x 1"
	70904206	2	2	LOCKWASHER, 3/8"
17	70087619	1	-	BRACKET, throttle stop
	70095163	-	1	BRACKET, throttle stop
18	70092635	2	2	WASHER, throttle mounting
19	70087700	1	-	THROTTLE ASSEMBLY (See page 173 for parts)
	70095156	-	1	THROTTLE ASSEMBLY (See page 173 for parts)
20	70012992	2	2	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	2	LOCKWASHER, 3/8"
	70911041	2	2	NUT, 3/8"NF
21	70093829	-	1	LEVER, bellcrank

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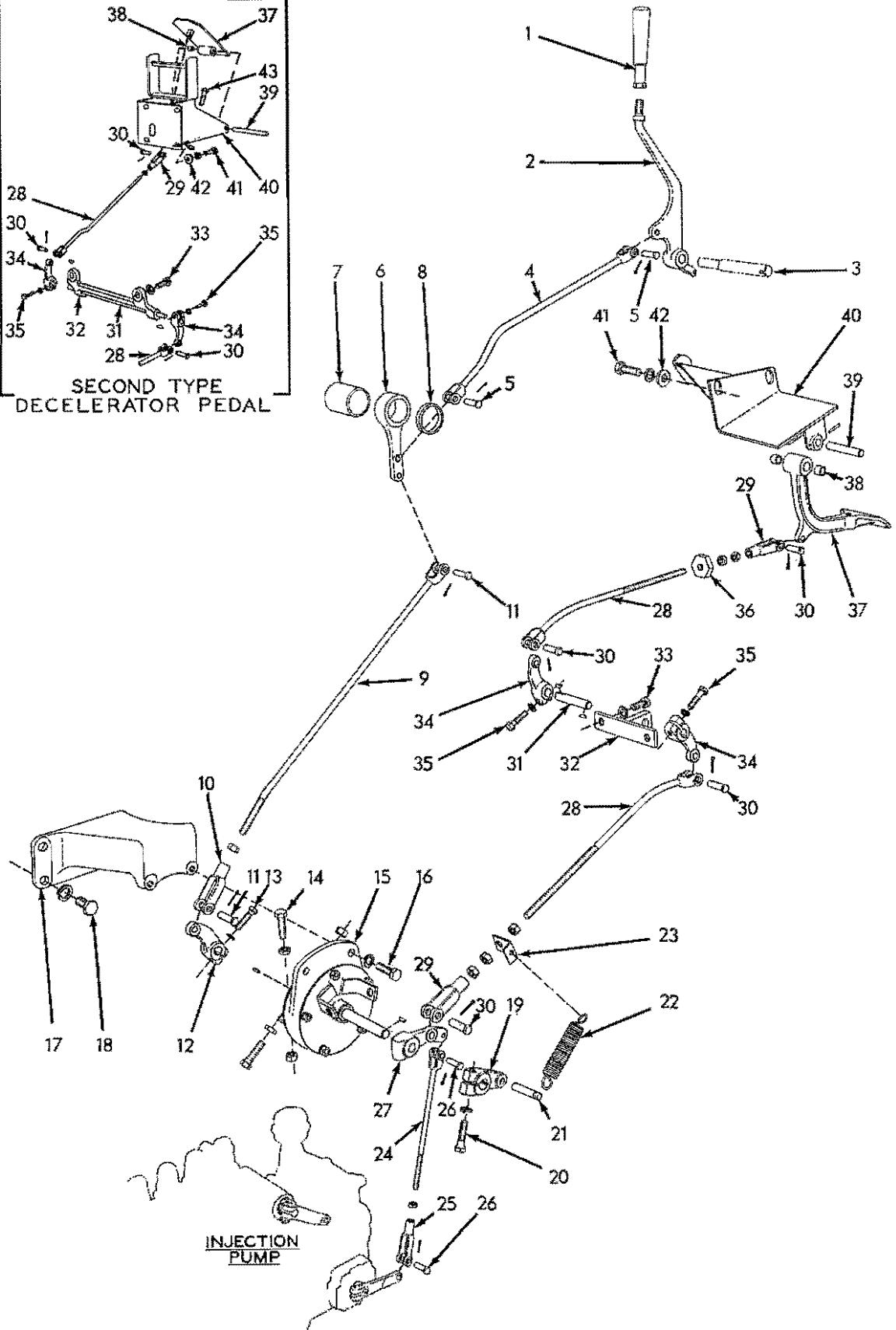
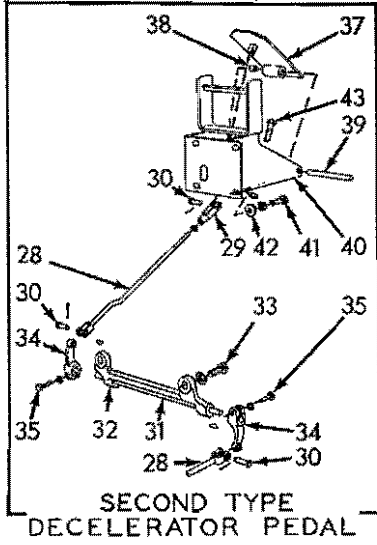
THROTTLE CONTROL (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
22	70093813	-	1	ROD, decelerator pedal
	70911041	-	2	NUT, 3/8"NF
23	70628736	-	1	YOKE, decelerator pedal rod
24	70078810	-	2	PIN, yoke, decelerator pedal rod
	70900942	-	2	PIN, cotter, 3/32" x 5/8"
25	70093780	-	1	NUT, stop, decelerator pedal
26	70092871	-	1	PEDAL ASSEMBLY, decelerator (Includes item 27)
27	70049988	-	2	BUSHING, decelerator pedal
28	70093749	-	1	BRACKET, decelerator pedal
29	70035061	-	2	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	-	2	LOCKWASHER, 1/2"
30	70093685	-	1	SHAFT, decelerator pedal
	70918111	-	1	PIN, roll, 1/8" x 1"
31	70094060	-	1	LEVER ASSEMBLY, retracting spring (Includes item 33)
	70905121	-	1	KEY, #5 woodruff, 1/8" x 5/8"
32	70045295	-	1	CAPSCREW, 5/16"NC x 1"
	70904205	-	1	LOCKWASHER, 5/16"
33	70094059	-	1	PIN, retracting spring lever
	70900942	-	1	PIN, cotter, 3/32" x 5/8"
34	70092665	-	1	WASHER, spacing, rear spring clip
35	70093803	-	1	CLIP, retracting spring, rear
36	70043881	-	1	SPRING, retracting
37	70095150	-	1	ROD, throttle control
	70911041	-	1	NUT, 3/8"NF
38	70078810	-	1	PIN, yoke, throttle control rod
	70900942	-	1	PIN, cotter, 3/32" x 5/8"
39	70093078	-	1	BLOCK, rod connecting
40	70035336	-	2	CAPSCREW, 3/8"NF x 1-3/4"
	70904206	-	2	LOCKWASHER, 3/8"
	70911041	-	2	NUT, 3/8"NF
41	70093076	-	1	CLIP, retracting spring, front
42	70081619	1	-	LEVER, lower rod
	70905121	1	-	KEY, #5 woodruff, 1/8" x 5/8"
43	70041981	1	-	CAPSCREW, 5/16"NF x 1-1/2"
	70904205	1	-	LOCKWASHER, 5/16"
	70913636	1	-	NUT, 5/16"NF
44	70081672	2	-	SPACER, lower rod yoke

(Continued)

THROTTLE CONTROL (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
45	70078967	1	-	YOKE, lower rod (rear)
	70093079	-	1	YOKE, lower rod (rear)
46	70082875	1	-	PIN, lower rod yoke (rear)
	70900942	1	-	PIN, cotter, 3/32" x 5/8"
47	70035910	2	2	SPRING, lower rod
48	70044973	1	1	WASHER, lower rod spring
49	70087614	1	-	ROD, lower
	70093831	-	1	ROD, lower
	70916202	1	1	PIN, roll, 1/8" x 7/8"
	70911040	1	1	NUT, 1/4"NF
50	70628737	1	1	YOKE, lower rod (front)
51	70628738	1	1	PIN, lower rod yoke (front)
	70900970	1	1	PIN, cotter, 1/16" x 1/2"



THROTTLE CONTROL (Second type, HD16GC)

T-22620

THROTTLE CONTROL

USAGE: Model HD16GC tractors serial No. 4001 and up

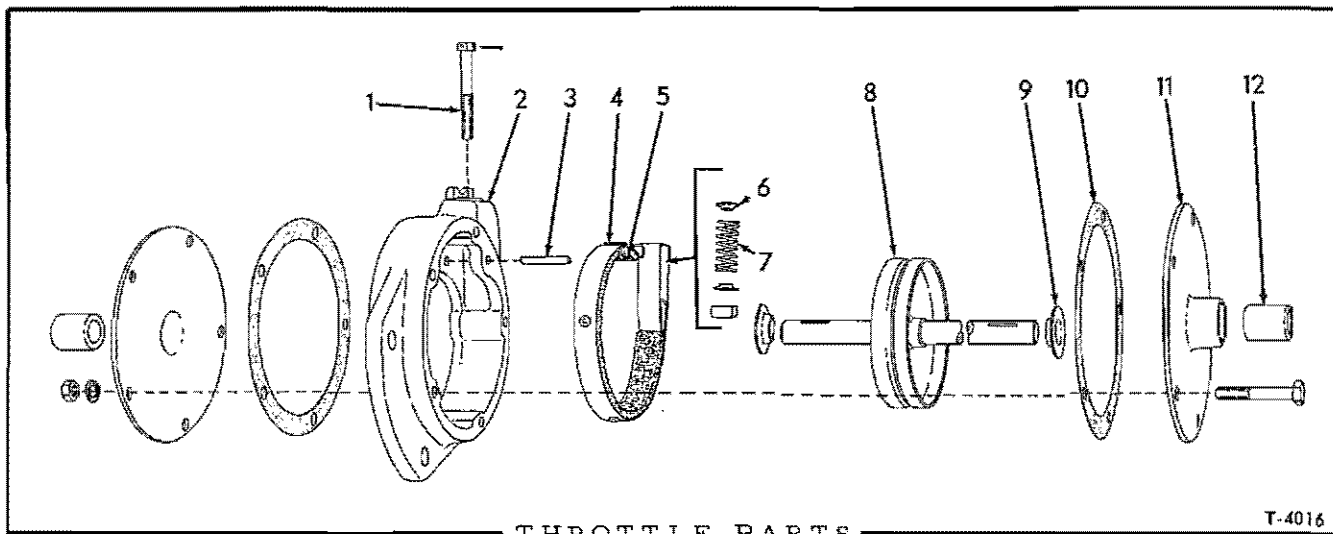
* Tractors prior to serial No. 5154
 ** Tractors serial No. 5154 and up

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	70078620	1 1	GRIP, operating lever
2	70074574	1 1	LEVER, operating
3	-----	- -	SHAFT, operating lever (See STEERING LEVERS AND LINKAGE)
4	70097265	1 -	ROD, upper
	70630051	- 1	ROD, upper
5	70078810	2 2	PIN, upper rod
	70900942	2 2	PIN, cotter, 3/32" x 5/8"
6	70096336	1 1	LEVER, upper rod
7	70087673	1 1	SPACER, lever (2-1/8" long)
8	70081132	1 1	SPACER, lever (5/16" thick)
9	70097267	1 1	ROD, intermediate
	70911048	1 1	NUT, jam, 3/8"NF
10	70628736	1 1	YOKE, intermediate rod
11	70078810	2 2	PIN, yoke, 3/8" diam.
	70900942	2 2	PIN, cotter, 3/32" x 5/8"
12	70055416	1 1	LEVER, intermediate rod
	70905121	1 1	KEY, #5 woodruff, 1/8" x 5/8"
13	70037450	1 1	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	1 1	LOCKWASHER, 5/16"
14	70036039	2 2	CAPSCREW, lever stop (3/8"NF x 1-3/8")
	70911048	2 2	NUT, jam, 3/8"NF
	70911041	2 2	NUT, 3/8"NF
15	70096350	1 1	THROTTLE ASSEMBLY (See page 173 for parts)
16	70012992	2 2	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2 2	LOCKWASHER, 3/8"
17	70096341	1 1	BRACKET, throttle mounting
18	70097494	3 3	CAPSCREW, 1/2"NC x 1", (Nylok)
	70904208	3 3	LOCKWASHER, 1/2"
19	70096244	1 1	LEVER ASSEMBLY, retracting spring (Includes item 21)
	70905121	1 1	KEY, #5 woodruff, 1/8" x 5/8"
20	70037450	1 1	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	1 1	LOCKWASHER, 5/16"
21	70096242	1 1	PIN, retracting spring lever
22	70049108	1 1	SPRING, retracting
23	70096337	1 1	ANGLE, retracting spring
	70911048	2 2	NUT, jam, 3/8"NF

(Continued)

THROTTLE CONTROL (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
24	70096241	1	1	ROD, lower
	70910267	1	1	NUT, jam, 1/4"NF
25	70628737	1	1	YOKE, lower rod
26	70628738	2	2	PIN, lower rod
	70900970	2	2	PIN, cotter, 1/16" x 1/2"
27	70096334	1	1	LEVER, decelerator rod
28	70097266	1	1	ROD, front, decelerator
	70097266	1	-	ROD, rear, decelerator
	70624089	-	1	ROD, rear, decelerator
	70911048	2	2	NUT, jam, 3/8"NF
29	70628736	2	2	YOKE, decelerator rod
30	70078810	4	4	PIN, decelerator rod
	70900942	4	4	PIN, cotter, 3/32" x 5/8"
31	70097264	1	-	SHAFT, cross, decelerator
	70096397	-	1	SHAFT, cross, decelerator
32	70097263	1	-	BRACKET, decelerator cross shaft
	70092886	-	1	BRACKET, decelerator cross shaft
33	70036034	2	-	CAPSCREW, 3/8"NF x 1"
	70614478	-	2	CAPSCREW, 1/2"NF x 1-3/8"
	70904206	2	-	LOCKWASHER, 3/8"
	70904208	-	2	LOCKWASHER, 1/2"
34	70055416	2	2	LEVER, decelerator cross shaft
	70915121	2	2	KEY, #5 woodruff, 1/8" x 5/8"
35	70037450	2	2	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	2	2	LOCKWASHER, 5/16"
36	70093780	1	-	NUT, stop, decelerator pedal
	70911048	1	-	NUT, jam, 3/8"NF
37	70092871	1	-	PEDAL ASSEMBLY, decelerator (Includes item 38)
	70622576	-	1	PEDAL ASSEMBLY, decelerator (Includes item 38)
38	70049988	2	2	BUSHING, decelerator pedal
39	70093685	1	-	SHAFT, decelerator pedal
	70622575	-	1	SHAFT, decelerator pedal
	70918111	1	1	PIN, roll, 1/8" x 1"
40	70097260	1	-	BRACKET, decelerator pedal
	70622569	-	1	BRACKET, decelerator pedal
41	70035190	2	4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	2	4	LOCKWASHER, 1/2"
42	70064531	2	4	WASHER, plain
43	70036203	-	1	CAPSCREW, decelerator stop (1/2"NC x 1-3/4")
	70911035	-	1	NUT, jam, 1/2"NC

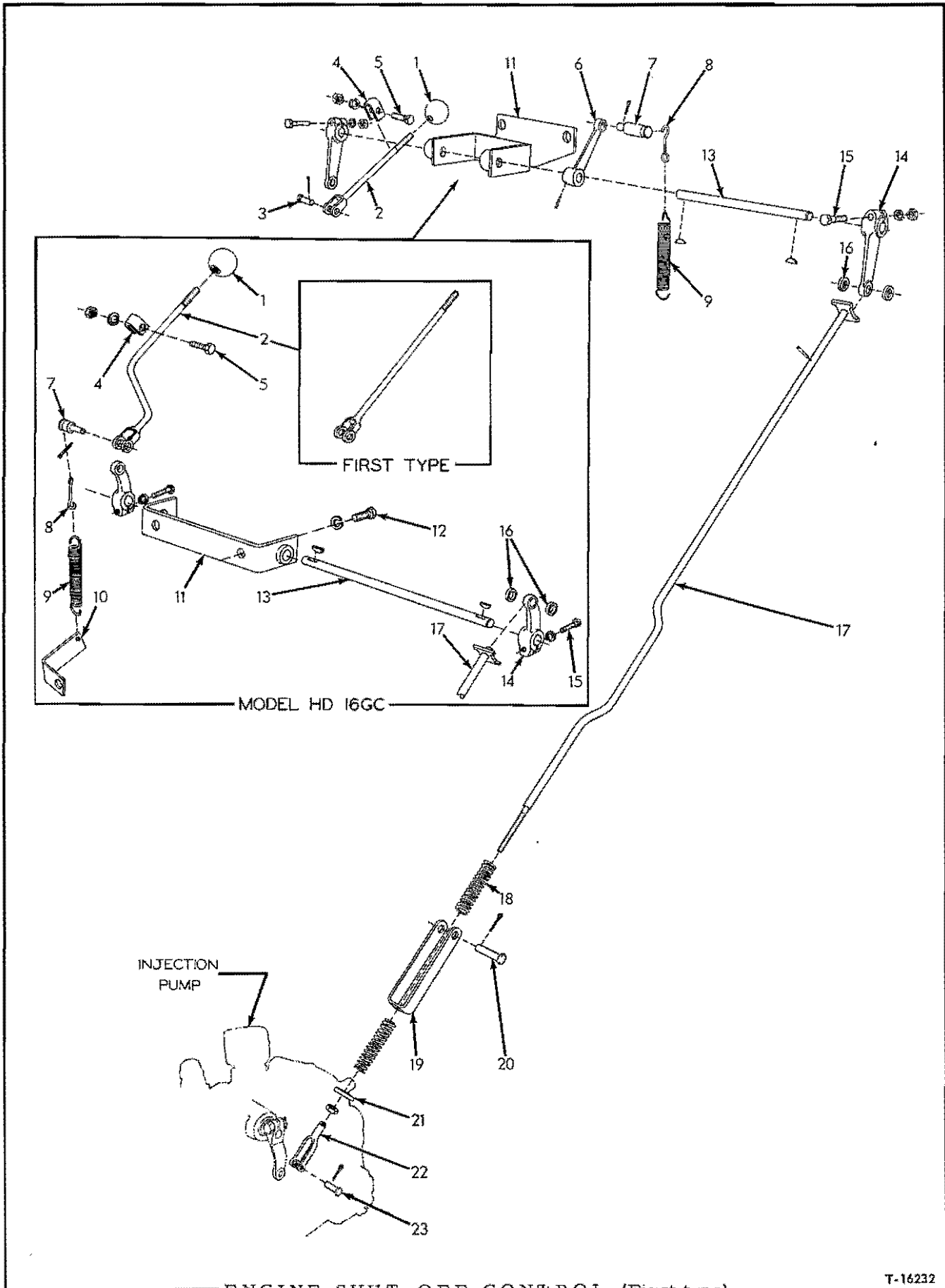


THROTTLE PARTS

T-4016

ITEM	PART NO.	QUANTITY					DESCRIPTION
		70081533	70087700	70092929	70095156	70096350	
							70081533 THROTTLE ASSEMBLY (See page 159)
							70087700 THROTTLE ASSEMBLY (See page 167)
							70092929 THROTTLE ASSEMBLY (See page 159)
							70095156 THROTTLE ASSEMBLY (See page 167)
							70096350 THROTTLE ASSEMBLY (See pages 163 & 171)
1	70068862	1	1	1	1	1	CAPSCREW, friction band adjustment
	70904020	1	1	1	1	1	PIN, cotter, 1/16" x 1"
	70901150	1	1	1	1	1	NUT, square, 1/4"NC
2	70068859	1	1	1	1	1	HOUSING
3	70068869	1	1	1	1	1	PIN, friction band
4	70068861	1	1	1	1	1	BAND ASSEMBLY, friction (Includes item 5)
5	70068864	1	1	1	1	1	LINING, friction band
	70915707	4	4	4	4	4	RIVET, tubular, brass, 9/64" x 1/4"
6	70069349	2	2	2	2	2	COLLAR, friction band spring
7	70068911	1	1	1	1	1	SPRING, friction band
8	70081526	1	-	-	-	-	DRUM AND SHAFT
	70073033	-	1	-	-	-	DRUM AND SHAFT
	70092891	-	-	1	-	-	DRUM AND SHAFT
	70095081	-	-	-	1	-	DRUM AND SHAFT
	70096347	-	-	-	-	1	DRUM AND SHAFT
9	70069996	2	2	2	2	2	WASHER, thrust
10	70068865	2	2	2	2	2	GASKET, cover plate
11	70068866	2	2	2	2	-	PLATE ASSEMBLY, cover
	70096348	-	-	-	-	1	PLATE ASSEMBLY, cover, outer
	70096349	-	-	-	-	1	PLATE ASSEMBLY, cover, inner
	70914892	5	3	5	3	5	CAPSCREW, 1/4"NF x 1-3/4"
	70916933	-	2	-	2	-	CAPSCREW, 1/4"NF x 2" (Attaches stop bracket)
	70904204	5	5	5	5	5	LOCKWASHER, 1/4"
	70911040	5	5	5	5	5	NUT, 1/4"NF
12	70071800	2	2	2	2	2	BUSHING, throttle shaft

} Includes item 12



ENGINE SHUT-OFF CONTROL

USAGE: Tractors prior to serial No. 4001

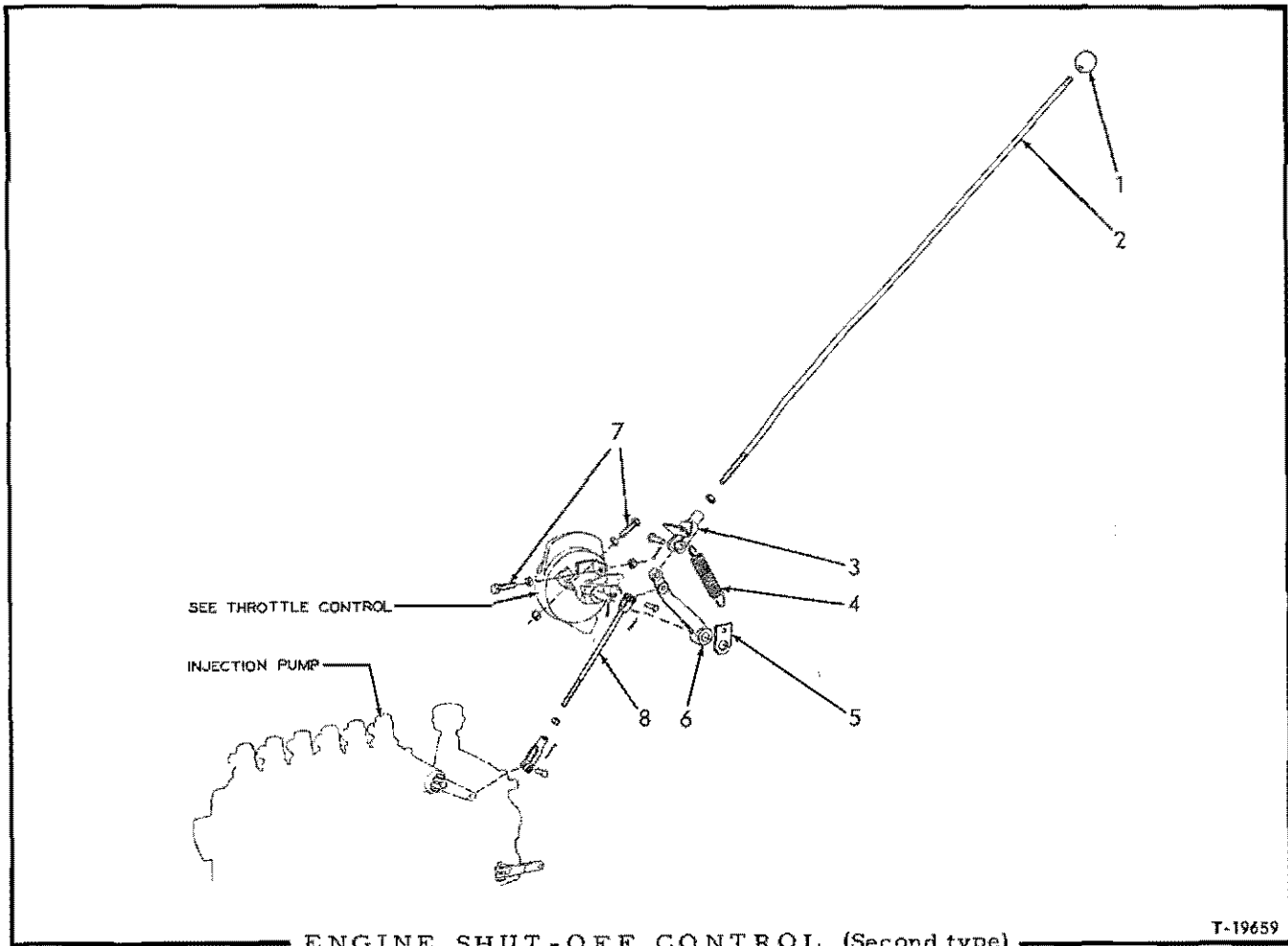
* Models HD16A, AC, D, DC, FC
 ** Model HD16GC

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	70091855	1 1	KNOB, shut-off rod
2	70081119	1 -	ROD, upper
	70087636	- 1	ROD, upper (Used prior to tractor #2612)
	70093037	- 1	ROD, upper (Effective with tractor #2612)
3	70078810	1 -	PIN, yoke, upper rod
	70900942	1 -	PIN, cotter, 3/32" x 5/8"
4	70080197	1 1	CLAMP, stop, upper rod
5	70012992	1 1	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	1 1	LOCKWASHER, 3/8"
	70911041	1 1	NUT, 3/8"NF
6	70081443	1 -	LEVER, retracting spring
	70916202	1 -	PIN, roll, 1/8" x 7/8"
7	70083309	1 -	PIN, retracting spring
	70087672	- 1	PIN, retracting spring
	70900942	1 1	PIN, cotter, 3/32" x 5/8"
8	70081440	1 1	LINK, spring retaining
9	70072438	1 1	SPRING, retracting
10	70087624	- 1	STRAP, retracting spring
11	70083333	1 -	BRACKET, cross shaft
	70087683	- 1	BRACKET, cross shaft
12	70036034	- 2	CAPSCREW, 3/8"NF x 1"
	70904206	- 2	LOCKWASHER, 3/8"
13	70083310	1 -	SHAFT, cross
	70087682	- 1	SHAFT, cross
14	70081619	2 -	LEVER, cross shaft
	70055416	- 2	LEVER, cross shaft
15	70905121	2 2	KEY, #5 woodruff, 1/8" x 5/8"
	70041981	2 -	CAPSCREW, 5/16"NF x 1-1/2"
	70037450	- 2	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	2 2	LOCKWASHER, 5/16"
	70913636	2 -	NUT, 5/16"NF
16	70081672	2 2	SPACER, lower rod yoke

(Continued)

ENGINE SHUT-OFF CONTROL (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
17	70083382	1 -	ROD, lower
	70087600	- 1	ROD, lower
	70916202	1 1	PIN, roll, 1/8" x 7/8"
	70911040	1 1	NUT, 1/4"NF
18	70035910	2 2	SPRING, lower rod
19	70078967	1 1	YOKE, lower rod (rear)
20	70082875	1 1	PIN, lower rod yoke (rear)
	70900942	1 1	PIN, cotter, 3/32" x 5/8"
21	70044973	1 1	WASHER, lower rod spring
22	70628737	1 1	YOKE, lower rod (front)
23	70628738	1 1	PIN, lower rod yoke (front)
	70900970	1 1	PIN, cotter, 1/16" x 1/2"



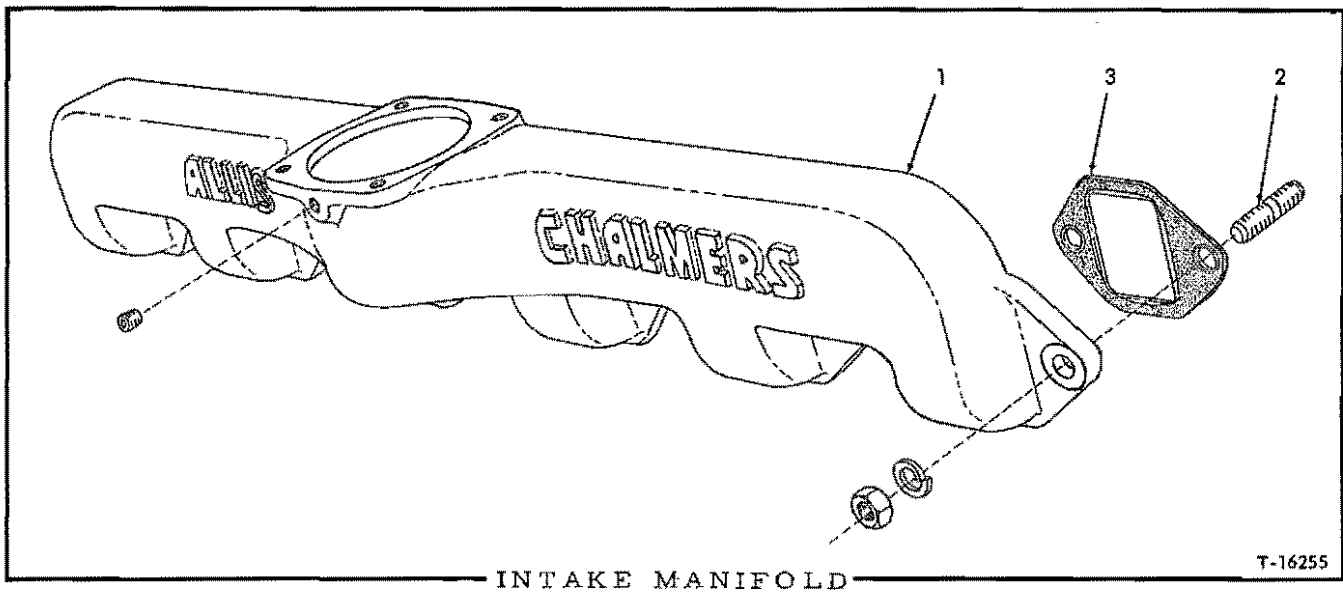
ENGINE SHUT-OFF CONTROL (Second type)

T-19659

ENGINE SHUT-OFF CONTROL

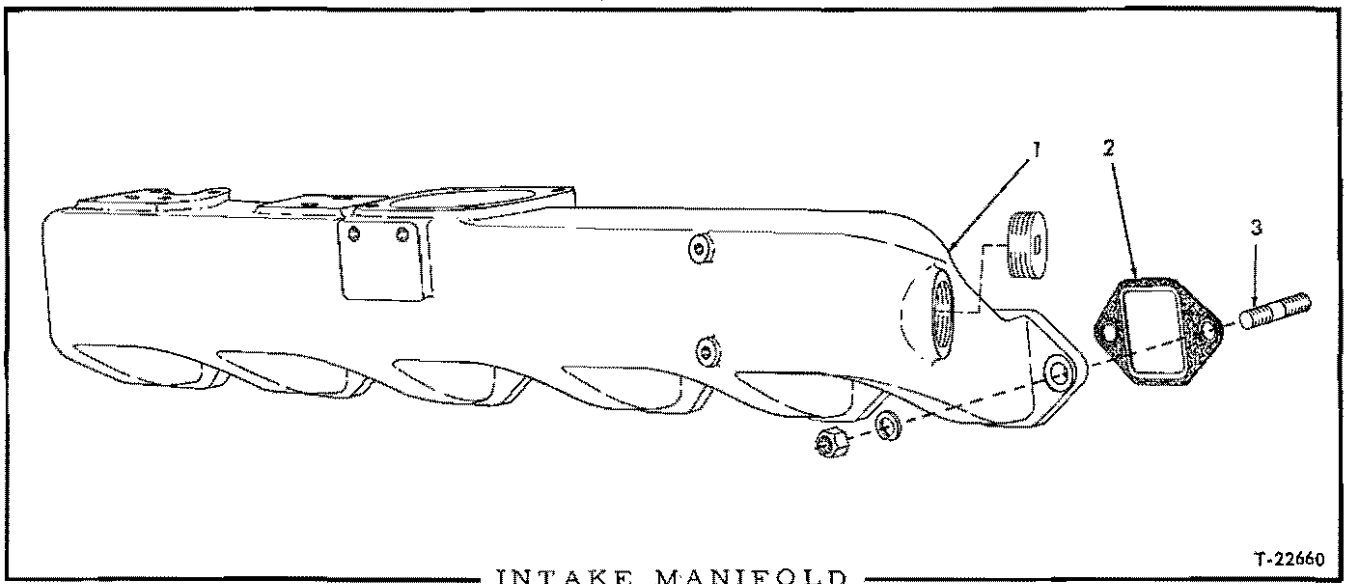
USAGE: Tractors serial No. 4001 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	70091855	1	KNOB, shut-off rod
2	70097096	1	ROD, upper (All models except HD16GC)
	70095664	1	ROD, upper (Model HD16GC)
	70911048	1	NUT, jam, 3/8"NF
3	70096339	1	YOKE, upper rod
	70078810	1	PIN, yoke, 3/8" diam.
	70900942	1	PIN, cotter, 3/32" x 5/8"
4	70088428	1	SPRING, shut-off rod
5	70096398	1	CLIP, spring attaching
	70916014	1	PIN, roll, 3/32" x 3/4"
6	70096342	1	LEVER, shut-off rod
7	70036039	2	CAPSCREW, lever stop (3/8"NF x 1-3/8")
	70911048	2	NUT, jam, 3/8"NF
	70911041	2	NUT, 3/8"NF
8	70096241	1	ROD, lower
	70910267	1	NUT, jam, 1/4"NF
	70628737	1	YOKE, rod end, adjustable, 1/4"NF
	70628738	2	PIN, yoke, 1/4" diam.
	70900970	2	PIN, cotter, 1/16" x 1/2"



USAGE: Tractors prior to serial No. 4001

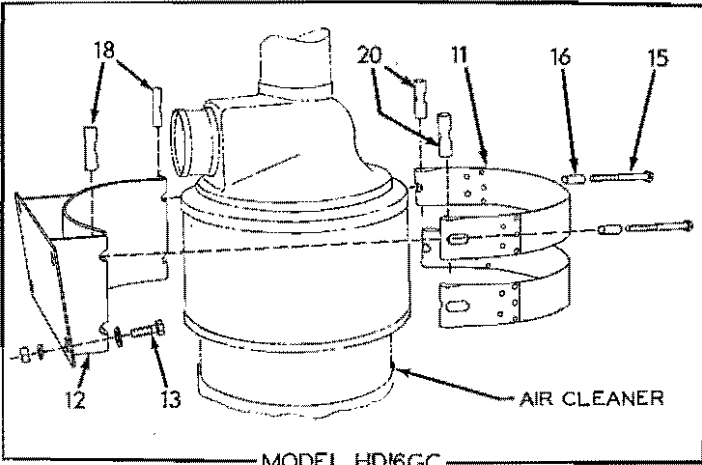
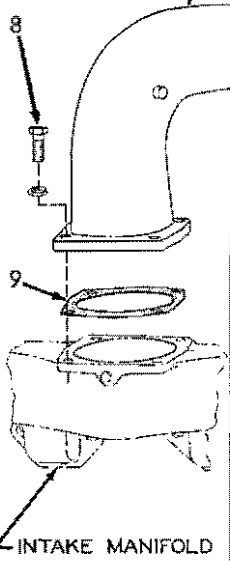
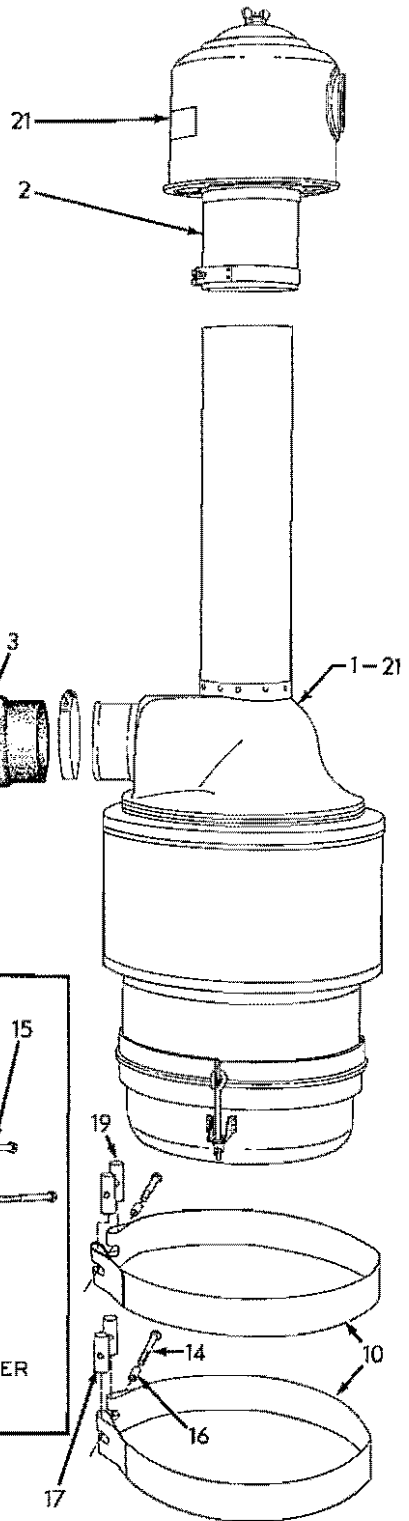
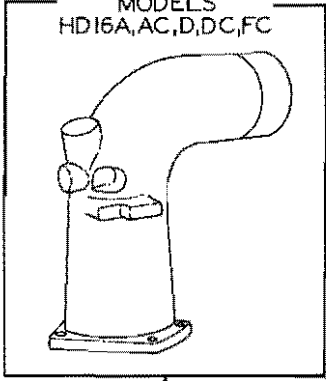
ITEM	PART NO.	QTY.	DESCRIPTION
1	74371860	1	MANIFOLD, intake
	70907070	1	PLUG, pipe, ctsk-hd., 1/4"NPT
2	74367187	12	STUD, intake manifold
	70910195	12	NUT, 1/2"NF
	70904208	12	LOCKWASHER, 1/2"
3	74387697	6	GASKET, intake manifold



USAGE: Tractors serial No. 4001 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	74386948	1	MANIFOLD, air intake
	70901668	1	PLUG, pipe, ctsk-hd., 1-1/2"NPT
2	74387697	6	□ GASKET, intake manifold
3	74386041	7	STUD (2-5/16" long)
	74367187	5	STUD (2" long)
	70904208	12	LOCKWASHER, 1/2"
	70910195	12	NUT, 1/2"NF

SECOND TYPE
MODELS
HDI6A, AC, D, DC, FC



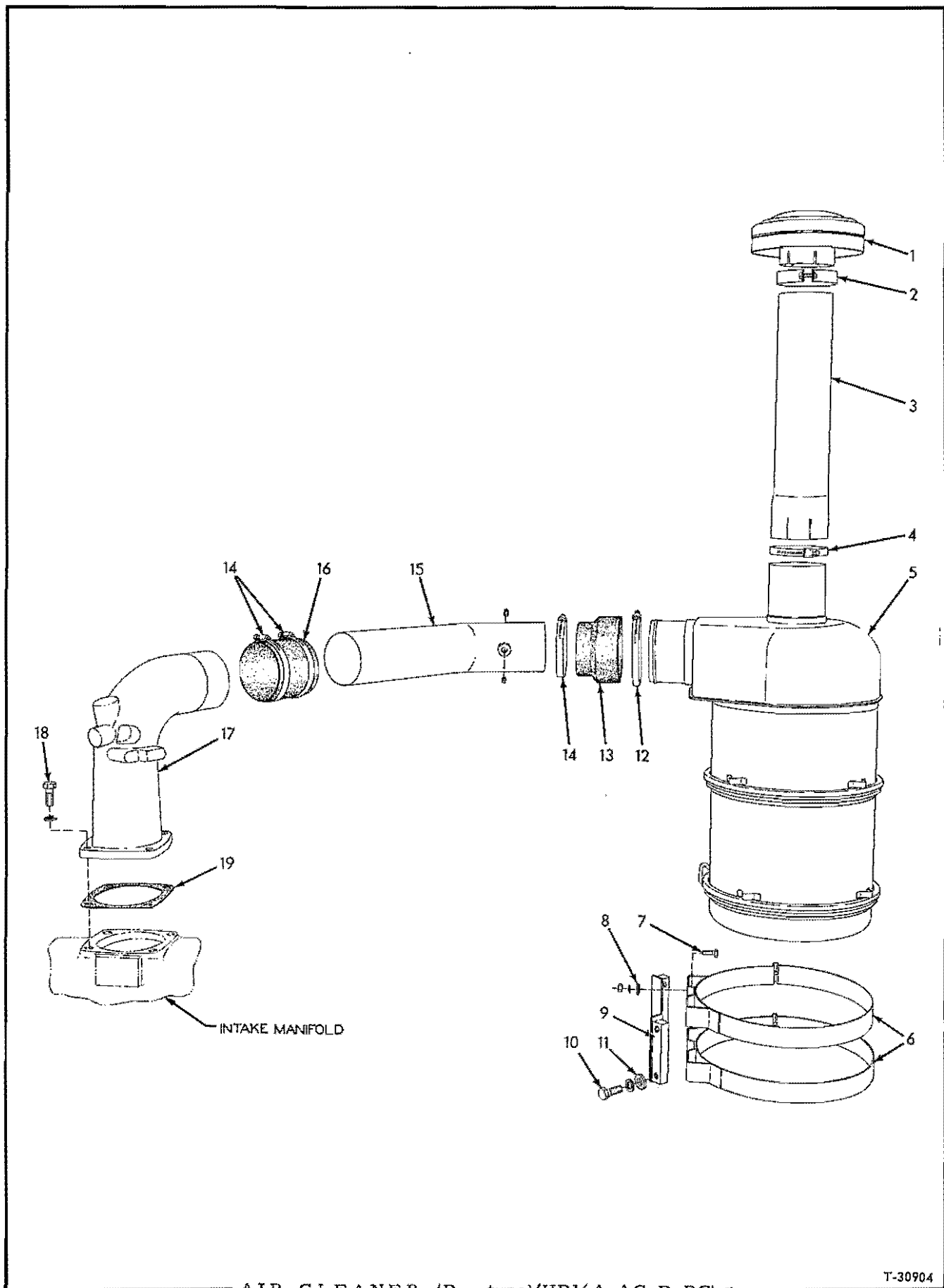
AIR CLEANER (Oil-bath)

T-16256

AIR CLEANER (Oil-bath)

* Standard equipment on Model HD16A, AC, D, DC, FC tractors prior to serial No. 5703; optional thereafter.
 ** Model HD16GC tractors prior to serial No. 2612. See page 185 for later design

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70077900	1	1	CLEANER ASSEMBLY, air (See page 188 for parts)
2	70077919	1	1	PRE-CLEANER ASSEMBLY, air (See page 188 for parts)
3	70081214	1	1	HOSE, rear
4	70921916	4	4	CLAMP, hose (3-7/8" to 4-3/4" diam.)
5	70084392	1	-	TUBE, air (Used prior to tractor #4001)
	70622633	1	-	TUBE, air (Effective with tractor #4001. If for tractors prior to #5099 also order PLUG 70901651)
	70087626	-	1	TUBE, air
	70901652	1	1	PLUG, pipe, 1/4"NPT (Not used when Engine Primer is installed)
	70901651	1	-	PLUG, pipe, 1/8"NPT (Used with TUBE 70622633 only)
6	70068231	1	-	HOSE, front (4" I. D. x 3-3/4" long)
	70051517	-	1	HOSE, front (4" I. D. x 5-1/2" long)
7	70083343	1	1	ELBOW, air inlet (Not used on Models HD16A, AC, D, DC, FC after tractor #4000)(Also see page 198 and 200 for special elbow used with Engine Air Heater)
	70097486	1	-	ELBOW, air inlet (Effective with tractor #4001)(Also see page 203 for special elbow used with Engine Air Heater)
8	70035061	4	4	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	4	4	LOCKWASHER, 1/2"
9	74361551	1	1	□ GASKET, air inlet elbow
10	70080818	2	-	BAND, mounting
11	70082206	-	2	BAND, mounting
12	70087623	-	1	BRACKET, air cleaner mounting
13	70035018	-	4	CAPSCREW, 1/2"NF x 1-1/2"
	70910244	-	4	WASHER, plain, SAE std., 1/2"
	70904208	-	4	LOCKWASHER, 1/2"
	70911043	-	4	NUT, 1/2"NF
14	70087159	2	-	CAPSCREW, mounting band (3/8"NC x 5-1/2")
15	70040570	-	4	CAPSCREW, mounting band (3/8"NC x 4-1/4")
16	70053667	2	4	SPACER, mounting band capscREW
17	70081796	2	-	PIN, mounting band (threaded hole)
18	70056100	-	4	PIN, mounting band (threaded hole)
19	70081795	2	-	PIN, mounting band (plain hole)
20	70056099	-	4	PIN, mounting band (plain hole)
21	-----	-	-	TRANSFERS (See PAINTING AND MARKING)



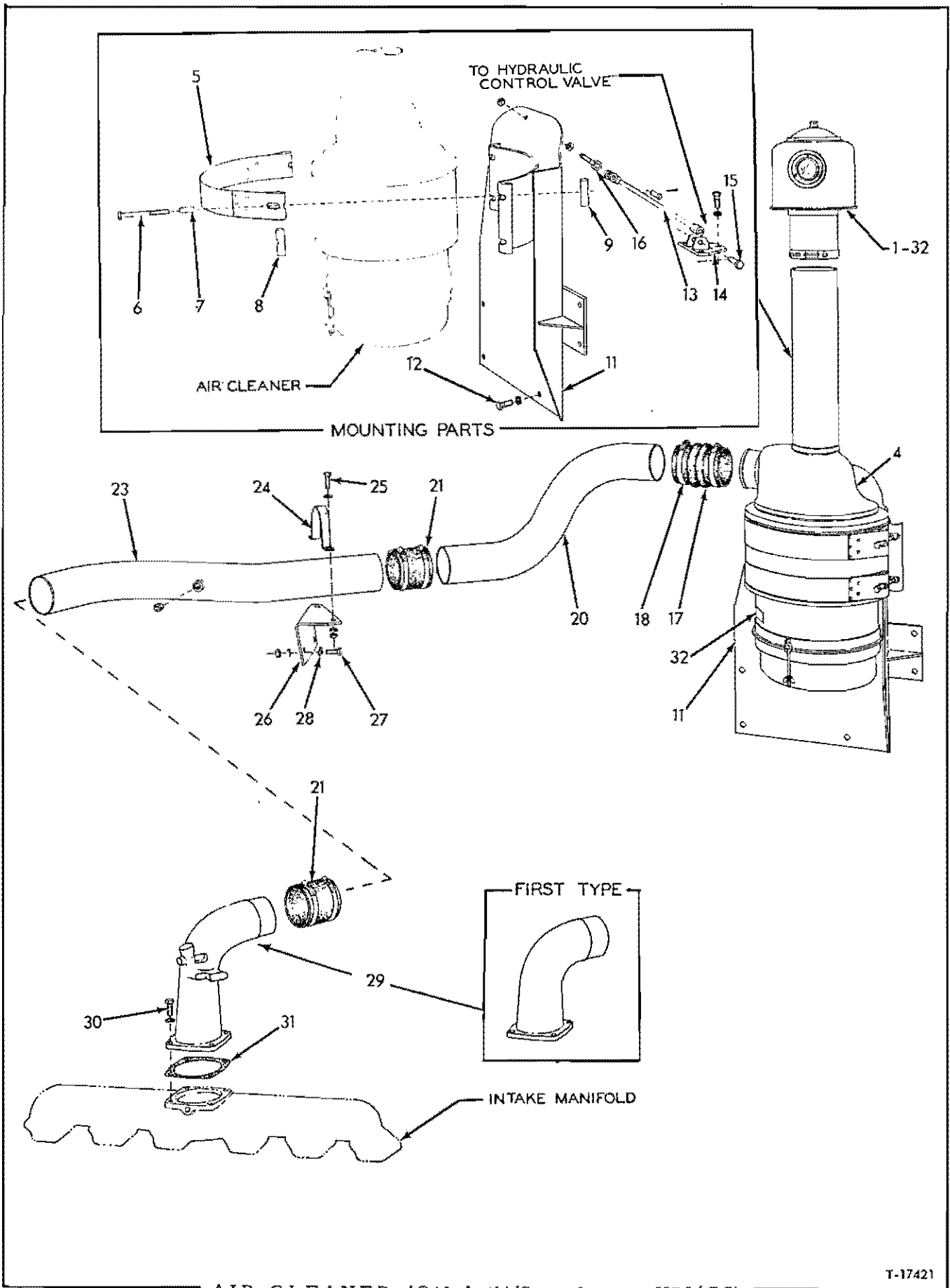
AIR CLEANER (Dry-type)(HD16A, AC, D, DC)

T-30904

AIR CLEANER (Dry-type)

USAGE: Standard equipment on Model HD16A, AC, D, DC tractors serial No. 5703 and up; optional on prior units.

ITEM	PART NO.	QTY.	DESCRIPTION
1	70621979	1	CAP, rain (Includes item 2)
2	70632650	1	CLAMP ASSEMBLY, rain cap (Includes bolt and nut)
3	70622091	1	TUBE, air inlet
4	70921916	1	CLAMP, air inlet tube (3-7/8" to 4-3/4" diam.)
5	70622255	1	CLEANER ASSEMBLY, air (See page 189 for parts)
6	70622596	2	BAND ASSEMBLY, air cleaner mounting (Includes screw and nut)
7	70036034	4	CAPSCREW, 3/8"NF x 1"
	70904206	4	LOCKWASHER, 3/8"
	70911041	4	NUT, 3/8"NF
8	70044973	4	WASHER, plain
9	70622090	1	BRACKET, air cleaner mounting
10	70035018	4	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	4	LOCKWASHER, 1/2"
11	70064531	4	WASHER, plain
12	70921919	1	CLAMP, rear hose (4-5/8" to 7-1/4" diam.)
13	70622092	1	HOSE, rear
14	70921916	3	CLAMP, hose (3-7/8" to 4-3/4"diam.)
15	70622633	1	TUBE, air
	70901651	1	PLUG, pipe, 1/8"NPT (Not used when Air Restriction Indicator is installed)
	70901652	1	PLUG, pipe, 1/4"NPT (Not used when Engine Primer is installed)
16	70068231	1	HOSE, front
17	70097486	1	ELBOW, air inlet (also see page 203 for special elbow used with Engine Air Heater)
18	70035061	4	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	4	LOCKWASHER, 1/2"
19	74361551	1	□GASKET, air inlet elbow.



AIR CLEANER (Oil-bath)(Second type. HD16GC)

T-17421

AIR CLEANER

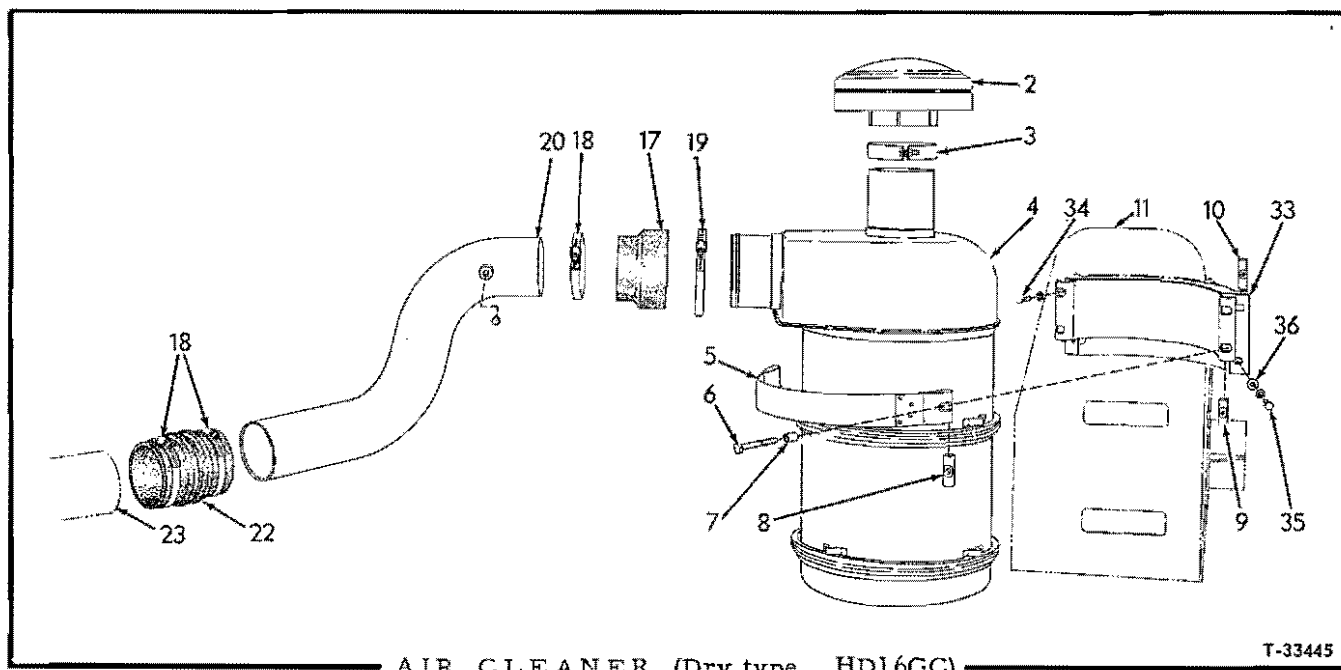
USAGE: Model HD16GC tractors serial No. 2612 and up

* Oil-bath. Standard equipment on tractors prior to serial No. 5703.

** Dry-type. Standard equipment on tractors serial No. 5703 and up; optional on prior units.

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70077919	1	-	PRE-CLEANER ASSEMBLY, air (See page 188 for parts)
2	70621979	-	1	CAP, rain (Includes item 3)
3	70632650	-	1	CLAMP ASSEMBLY, rain cap (Includes bolt and nut)
4	70077900	1	-	CLEANER ASSEMBLY, air (See page 188 for parts)
	70622255	-	1	CLEANER ASSEMBLY, air (See page 189 for parts)
5	70082206	2	-	BAND, mounting
	70620250	-	2	BAND, mounting
6	70082937	4	-	CAPSCREW, mounting band
	70086238	-	4	CAPSCREW, mounting band
7	70053667	4	4	SPACER, mounting band capscrew
8	70056099	4	-	PIN, mounting band (plain hole)
	70081795	-	4	PIN, mounting band (plain hole)
9	70056100	4	4	PIN, mounting band (threaded hole)
10	70081796	-	4	PIN, mounting band (threaded hole)

(Continued)



AIR CLEANER (Dry type. HD16GC)

T-33445

AIR CLEANER (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
11	70091736	1	1	BRACKET, air cleaner mounting
12	70070469	4	4	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	4	4	LOCKWASHER, 1/2"
13	-----	1	1	ROD, bracing (Used prior to tractor #5607)(Order one each ROD 70623595, PLATE 70623592, PIN 70053077, CAPSCREW 70053037 and PIN 70900806; also two CAPSCREWS 70053038)
	70623595	1	1	ROD, bracing (Effective with tractor # 5607)
14	70623592	1	1	PLATE, bracing rod (Effective with tractor #5607)
	70053038	2	2	CAPSCREW, 1/2"NF x 6"
	70053037	1	1	CAPSCREW, 1/2"NF x 5-1/2"
	70904208	3	3	LOCKWASHER, 1/2"
15	70053077	1	1	PIN, bracing rod plate (Effective with tractor #5607)
	70900806	1	1	PIN, cotter, 1/8" x 1"
16	70067902	1	1	EYE-BOLT, bracing rod
	70911043	2	2	NUT, 1/2"NF
	70917648	1	1	PIN, yoke, 1/2" diam.
	70900806	1	1	PIN, cotter, 1/8" x 1"
17	70081214	1	-	HOSE, rear
	70622092	-	1	HOSE, rear
18	70921916	6	5	CLAMP, hose (3-7/8" to 4-3/4"diam.)
19	70921919	-	1	CLAMP, rear hose (4-5/8" to 7-1/4" diam.)
20	70091954	1	-	TUBE, air, rear section
	70623104	-	1	TUBE, air, rear section
	70919134	-	1	PLUG, pipe, hex-hd., 1/8"NPT (Not used when air restriction indicator is installed)
21	70068231	2	1	HOSE, front
22	70081214	-	1	HOSE, intermediate
23	70091772	1	-	TUBE, air, front section (Used prior to tractor #4001)
	70097635	1	1	TUBE, air, front section (Effective with tractor #4001)
	70901652	1	1	PLUG, pipe, 1/4"NPT (Not used when Engine Primer is installed)
24	70091963	1	1	STRAP, air tube
25	70035525	2	2	CAPSCREW, 1/2"NF x 1-1/8"
	70900818	2	2	WASHER, plain, U.S. std., 1/2"
	70904208	2	2	LOCKWASHER, 1/2"
	70911043	2	2	NUT, 1/2"NF
26	70091962	1	1	ANGLE, air tube strap
27	70035018	2	2	CAPSCREW, 1/2"NF x 1-1/2"
28	70064531	2	2	WASHER, plain
	70904208	2	2	LOCKWASHER, 1/2"
	70911043	2	2	NUT, 1/2"NF

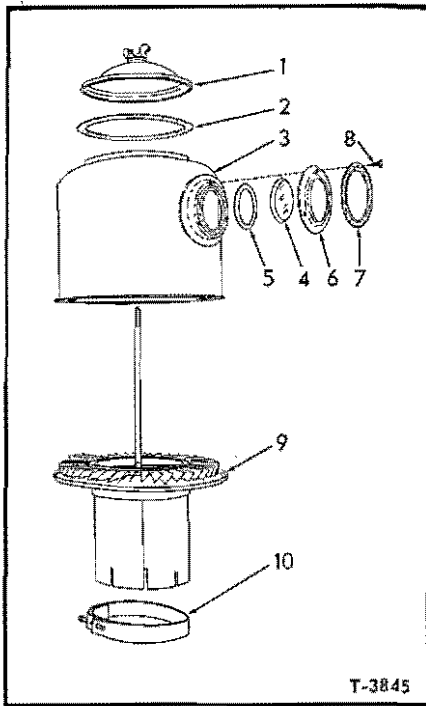
(Continued)

AIR CLEANER (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
29	70083343	1	-	ELBOW, air inlet (Used prior to tractor #4001)(Also see page 200 for special elbow used with Engine Air Heater)
	70097486	1	1	ELBOW, air inlet (Effective with tractor #4001)(Also see page 203 for special elbow used with Engine Air Heater)
30	70035061	4	4	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	4	4	LOCKWASHER, 1/2"
31	74361551	1	1	GASKET, air inlet elbow
32	-----	-	-	TRANSFERS (See PAINTING AND MARKING)
33	70623102	-	1	BRACKET, mounting
34	70013058	-	1	CAPSCREW, 3/8"NC x 1-1/4"
35	70070960	-	1	CAPSCREW, 3/8"NC x 1-1/2"
	70904206	-	2	LOCKWASHER, 3/8"
36	70044973	-	1	WASHER, plain

AIR PRE-CLEANER ASSEMBLY 70077919

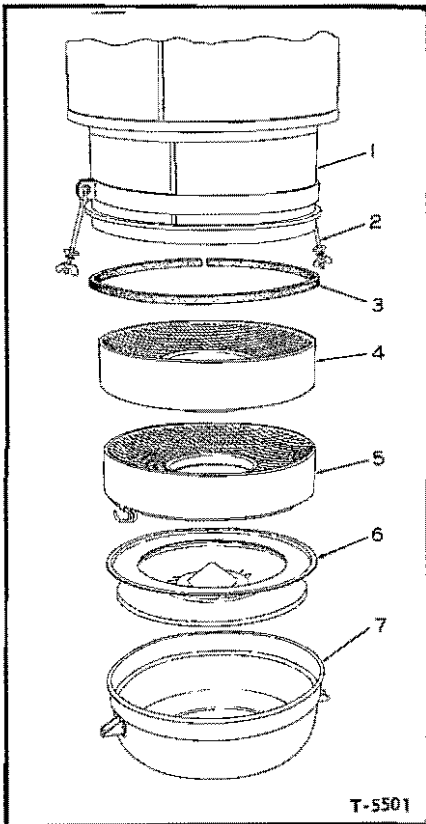
USAGE: See pages 181 and 185



ITEM	PART NO.	QTY.	DESCRIPTION
1	70044255	1	CAP ASSEMBLY (Includes wing nut)
2	70044256	1	GASKET, cap
3	70074633	1	SHELL ASSEMBLY (Includes items 4 thru 8)
4	70043860	1	GLASS, shell
5	70043852	1	GASKET, shell glass
6	70043853	1	RETAINER, shell glass
7	70043991	1	RING, shell glass retainer
8	70043856	3	SCREW ASSEMBLY (Includes lockwasher)
9	70077920	1	FAN
10	70074635	1	CLAMP, mounting (Includes screw and nut)

AIR CLEANER ASSEMBLY 70077900

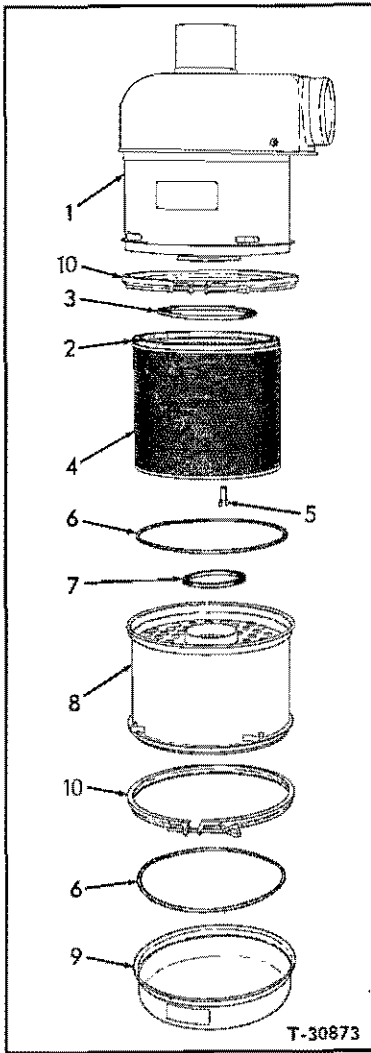
USAGE: See pages 181 and 185



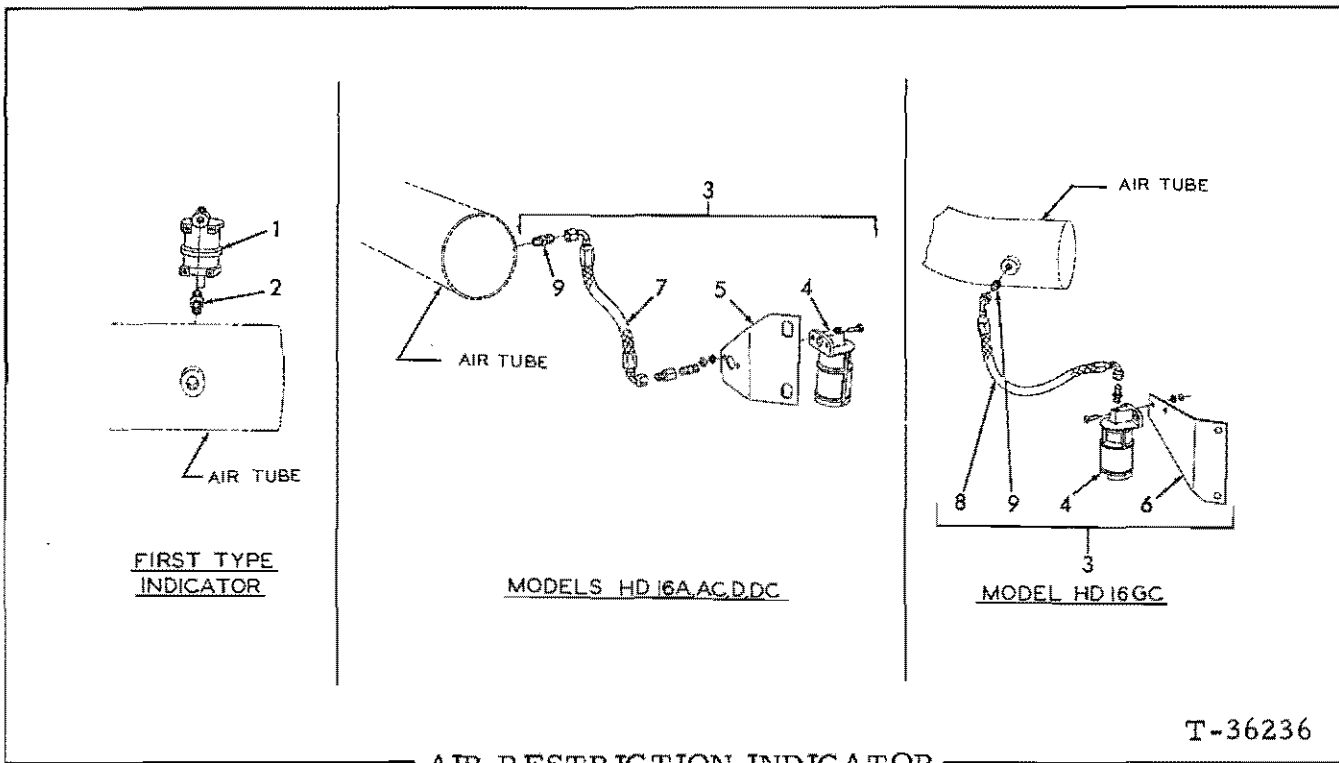
1	-----	1	BODY ASSEMBLY (Not serviced separately)
2	70059294	2	BOLT ASSEMBLY, oil cup retaining (Includes nuts and washers)
3	70074638	1	GASKET, oil cup
4	70077896	1	ELEMENT, filtering, upper unit
5	70077899	1	ELEMENT ASSEMBLY, filtering, lower unit (Includes baffle retaining spring)
6	70077898	1	BAFFLE, air
7	70077897	1	CUP, oil

AIR CLEANER ASSEMBLY 70622255

USAGE: See pages 183 and 185



ITEM	PART NO.	QTY.	DESCRIPTION
1	70622962	1	BODY, upper
2	-----	1	GASKET, filter element, upper (Not serviced separately)
3	-----	1	GASKET, filter element, lower (Not serviced separately)
4	70622963	1	ELEMENT ASSEMBLY, filter (Includes item 2 and 3)
5	70620719	3	NUT, wing, element retaining
6	70622966	2	GASKET, air pre-cleaner, outer
7	70622964	1	GASKET, air pre-cleaner, inner
8	70622965	1	PRE-CLEANER ASSEMBLY, air (Serviced only as a unit)
9	70622967	1	CUP, dust
10	70622968	2	CLAMP ASSEMBLY (Includes tightening screw)



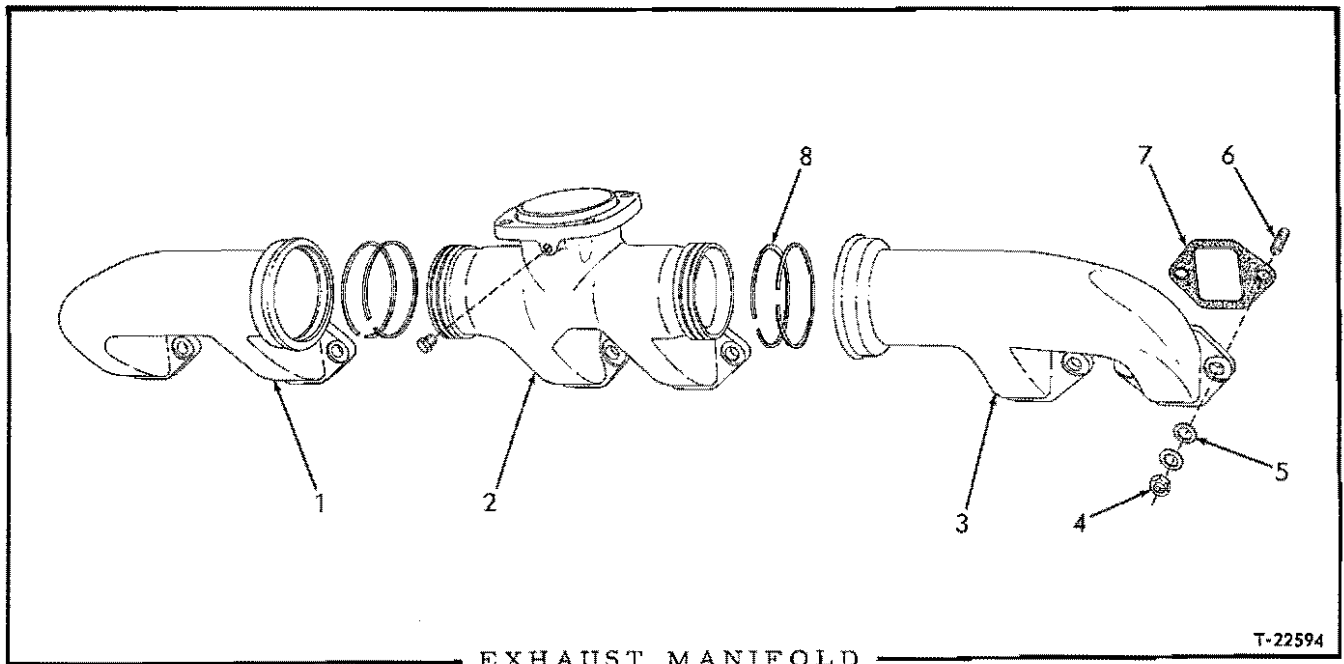
T-36236

USAGE: Special equipment. For use with dry-type Air Cleaner only

* First type. Mounted on Air Cleaner Tube

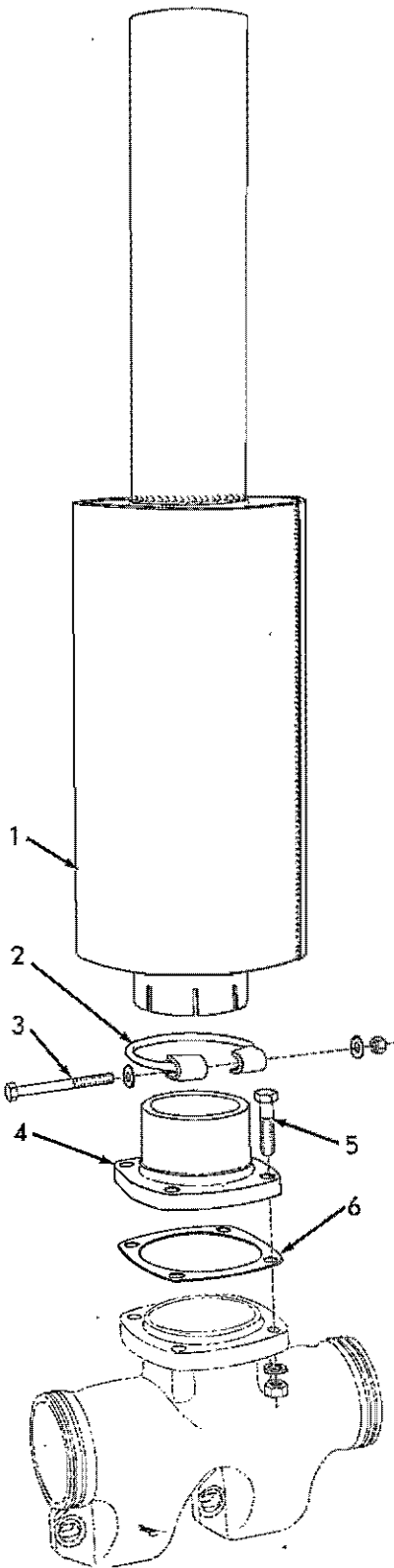
** Second type. Remote-mounted

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	-----	1 -	INDICATOR ASSY. (Order item 3)
2	70622447	1 -	FITTING, connector (Includes filter)
3	70631770	- 1	INDICATOR KIT (Consists of items 4, 4A, 5, 7, 9 and 10)(Models HD16A, AC, D, DC)
	70631781	- 1	INDICATOR KIT (Consists of items 4, 6, 8, 9 and 10) (Model HD16GC only)
4	70631564	- 1	INDICATOR only
4A	73045531	- 1	FLANGE, indicator mounting (Not Illustrated)
	70912789	- 2	CAPSCREW, 1/4" NF x 3/4"
	70904204	- 2	LOCKWASHER, 1/4"
	70911040	- 2	NUT, 1/4" NF
5	70631768	- 1	BRACKET, indicator mounting (HD16A, AC, D, DC)
6	70631780	- 1	BRACKET, indicator mounting (HD16GC only)
7	70631767	- 1	HOSE ASSY. (Models HD16A, AC, D, DC)(See HOSE PARTS)
	70919174	- 1	CONNECTOR, flare type, 1/4" tube, 1/8" NPT female
	70904273	- 1	NIPPLE, pipe, 1/8" NPT x 1"
8	70631779	- 1	HOSE ASSY. (Model HD16GC only)(See HOSE PARTS)
	70919171	- 1	CONNECTOR, flare type, 1/4" tube, 1/8" NPT male
9	70631769	- 1	FITTING, safety (Includes filter)



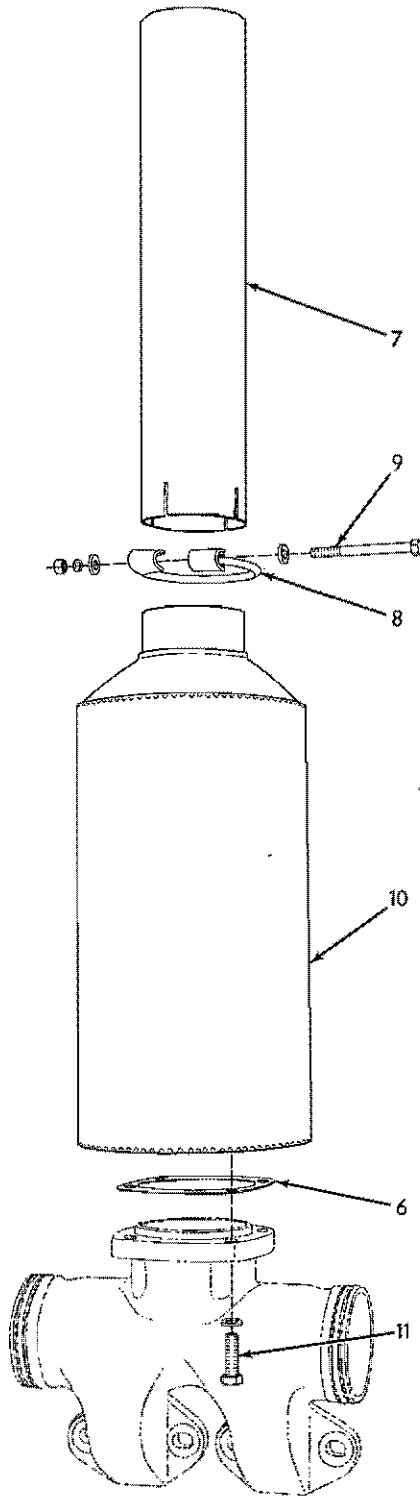
* Tractors prior to serial No. 4001
 ** Tractors serial No. 4001 and up

ITEM	PART NO.	QTY.		DESCRIPTION
		* **		
1	74365831	1	-	MANIFOLD, exhaust, rear section
	74376892	-	1	MANIFOLD, exhaust, rear section
2	74367606	1	-	MANIFOLD, exhaust, center section
	74385469	-	1	MANIFOLD, exhaust, center section
	70917425	-	1	PLUG, pipe, hex-hd., brass, 1/4"NPT
3	74366308	1	-	MANIFOLD, exhaust, front section
	74376891	-	1	MANIFOLD, exhaust, front section
4	74253270	12	12	NUT, manifold stud
5	74371107	12	12	WASHER, manifold stud nut
6	74346208	12	12	STUD, exhaust manifold
7	74375865	6	6	GASKET, exhaust manifold
8	74366243	4	4	RING, sealing



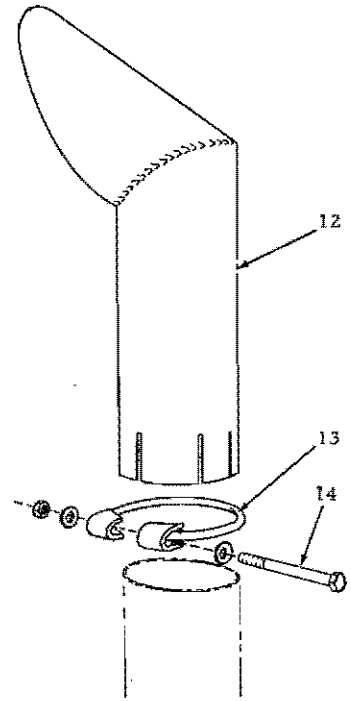
FIRST TYPE

T-13981



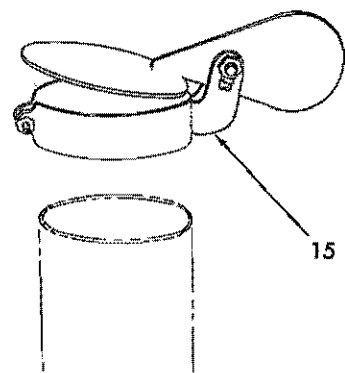
SECOND TYPE

T-14000



RAIN SHIELD

T-13997



RAIN CAP

T-13997A

MUFFLER

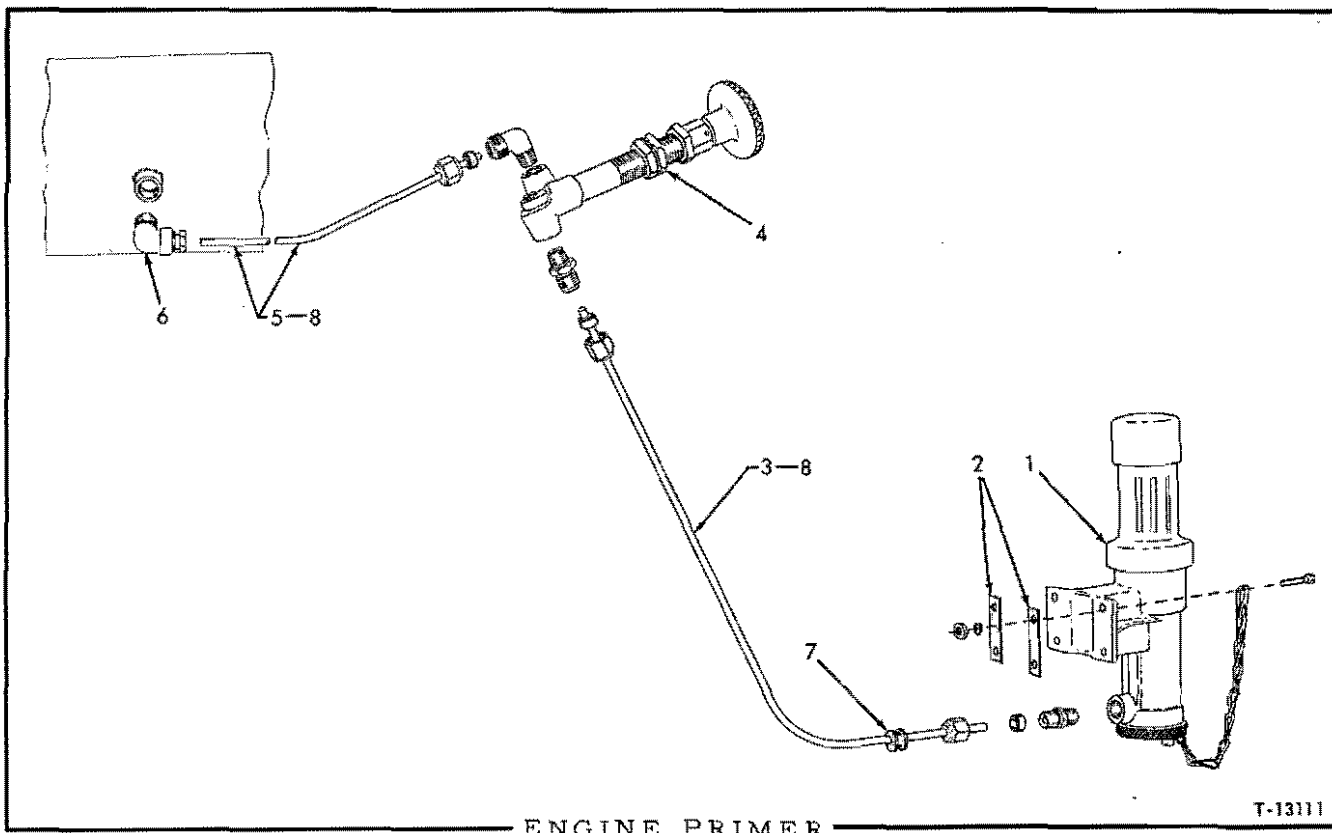
MUFFLER

* Tractors prior to serial No. 313
 ** Tractors serial No. 313 and up

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	-----	1 -	MUFFLER (Order items 7 thru 11)
2	-----	1 -	CLAMP, muffler (Original equipment. Order CLAMP 70633054 and CAPSCREW 70920613)
	70646078	1 -	CLAMP, Muffler (Service replacement)
3	70035711	1 -	CAPSCREW, 3/8"NF x 3-3/8" (Original equipment)
	70920613	1 -	CAPSCREW, 3/8"NF x 3". (Used with CLAMP 70633054 only)
	70900817	2 -	WASHER, plain, U. S. std., 3/8"
	70904206	1 -	LOCKWASHER, 3/8"
	70911041	1 -	NUT, 3/8"NF
4	70081814	1 -	FLANGE, exhaust
5	70921556	4 -	CAPSCREW, 1/2"NC x 2"
	70904208	4 -	LOCKWASHER, 1/2"
	70911028	4 -	NUT, 1/2"NC
6	74366244	1 1	GASKET, exhaust flange
7	70086771	- 1	PIPE, exhaust (19-1/2" long)
8	-----	- 1	CLAMP, exhaust pipe (Original equipment. Order CLAMP 70634091 and CAPSCREW 70916389)
	70634091	- 1	CLAMP, exhaust pipe (Service replacement)
9	70053619	- 1	CAPSCREW, 3/8"NF x 3-3/4" (Original equipment)
	70916389	- 1	CAPSCREW, 3/8"NF x 3-1/4" (Used with CLAMP 70634091 only)
	70044973	- 2	WASHER, plain
	70904206	- 1	LOCKWASHER, 3/8"
	70911041	- 1	NUT, 3/8"NF
10	70086770	- 1	MUFFLER
11	-----	- 4	CAPSCREW (Original equipment. Order STUD 74346208 and NUT 70917260)
	74346208	- 4	STUD (1/2" diam.) (Service replacement)
	70904208	- 4	LOCKWASHER, 1/2"
	70917260	- 4	NUT, brass, 1/2"NC (Service replacement)

NOTE: The following items are Special Equipment

12	70083170	1 1	SHIELD, rain, exhaust pipe
13	-----	1 1	CLAMP, exhaust pipe and rain shield (Original equipment. Order CLAMP 70633054 and CAPSCREW 70920613)
	70646078	1 1	CLAMP, exhaust pipe and rain shield (Service replacement)
14	70052016	1 1	CAPSCREW, 3/8"NF x 4" (Original equipment)
	70920613	1 1	CAPSCREW, 3/8"NF x 3" (Used with CLAMP 70633054 only)
	70900817	2 2	WASHER, plain, U. S. std., 3/8"
	70904206	1 1	LOCKWASHER, 3/8"
	70911041	1 1	NUT, 3/8"NF
15	70068623	1 1	RAINCAP, exhaust pipe



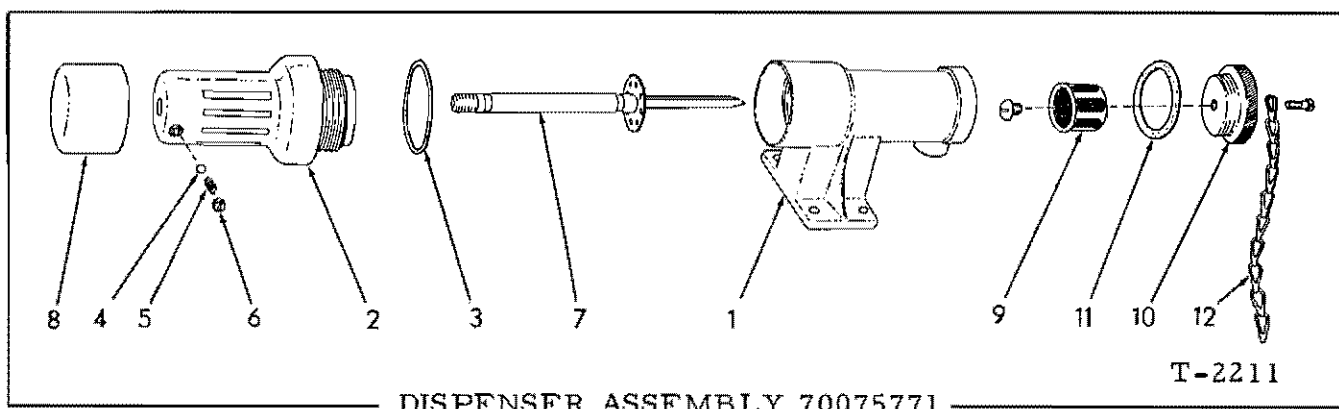
USAGE: Special equipment. For all units except those equipped with Air Heater

ITEM	PART NO.	QTY.	DESCRIPTION
1	70075771	1	DISPENSER ASSEMBLY, priming fuel (See page 196 for parts)
	70913464	4	CAPSCREW, #10-24NC x 7/8"
	70904203	4	LOCKWASHER, #10
	70901310	4	NUT, #10-24NC (Not used on Models HD16FC, GC)
2	70066261	6	GASKET, dispenser mounting
3	70094699	1	TUBE ASSEMBLY (18" long. Includes nuts)(Early units)
	70919094	2	CONNECTOR, flare type, 1/8" tube, 1/8"NPT male
3	-----	1	TUBE (Order item 8)
	70915488	2	NUT, Sealastic, 1/8" tube
	70915486	2	RING, Sealastic, 1/8" tube (Includes ferrule)
	70915556	2	CONNECTOR, Sealastic, 1/8" tube, 1/8"NPT male
4	70092160	1	PUMP ASSEMBLY (See page 197 for parts)
5	70094698	1	TUBE (18" long. Flared end)(Early units except Model HD16FC)
	70094715	1	TUBE (72" long. Flared end)(Early units. Model HD16FC only)
	70919100	1	NUT, flare type, 1/8" tube
	70919099	1	SLEEVE, flare type, 1/8" tube
	70919093	1	ELBOW, flare type, 90°, 1/8" tube, 1/8"NPT male
	-----	1	TUBE, (Order item 8)
	70915488	1	NUT, Sealastic, 1/8" tube
	70915486	1	RING, Sealastic, 1/8" tube (Includes ferrule)
	70915557	1	ELBOW, Sealastic, 1/8" tube, 1/8"NPT male

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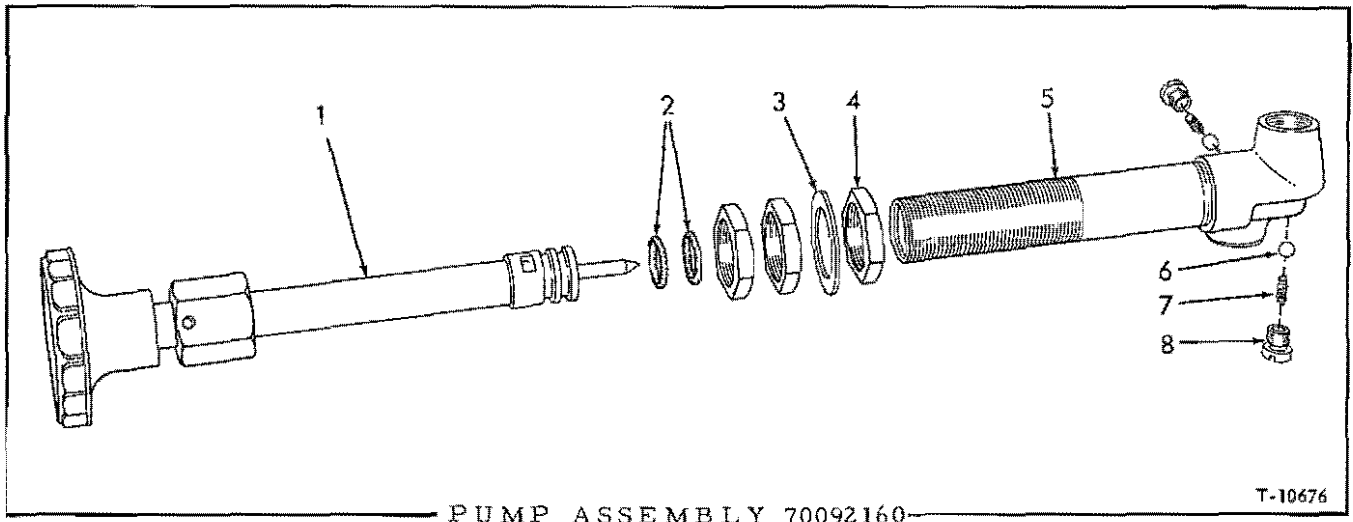
ENGINE PRIMER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
6	70066517	1	ELBOW ASSEMBLY, fuel spray (Includes nozzle, nut and sleeve. Serviced only as a unit)
7	70065946	1	GROMMET, tube protecting (rubber)(Used prior to tractor #4001 on Models HD16A, AC, D, DC, FC)
8	70066253	-	TUBING, copper, 1/8"O.D., 10 ft. roll (Use as req'd)



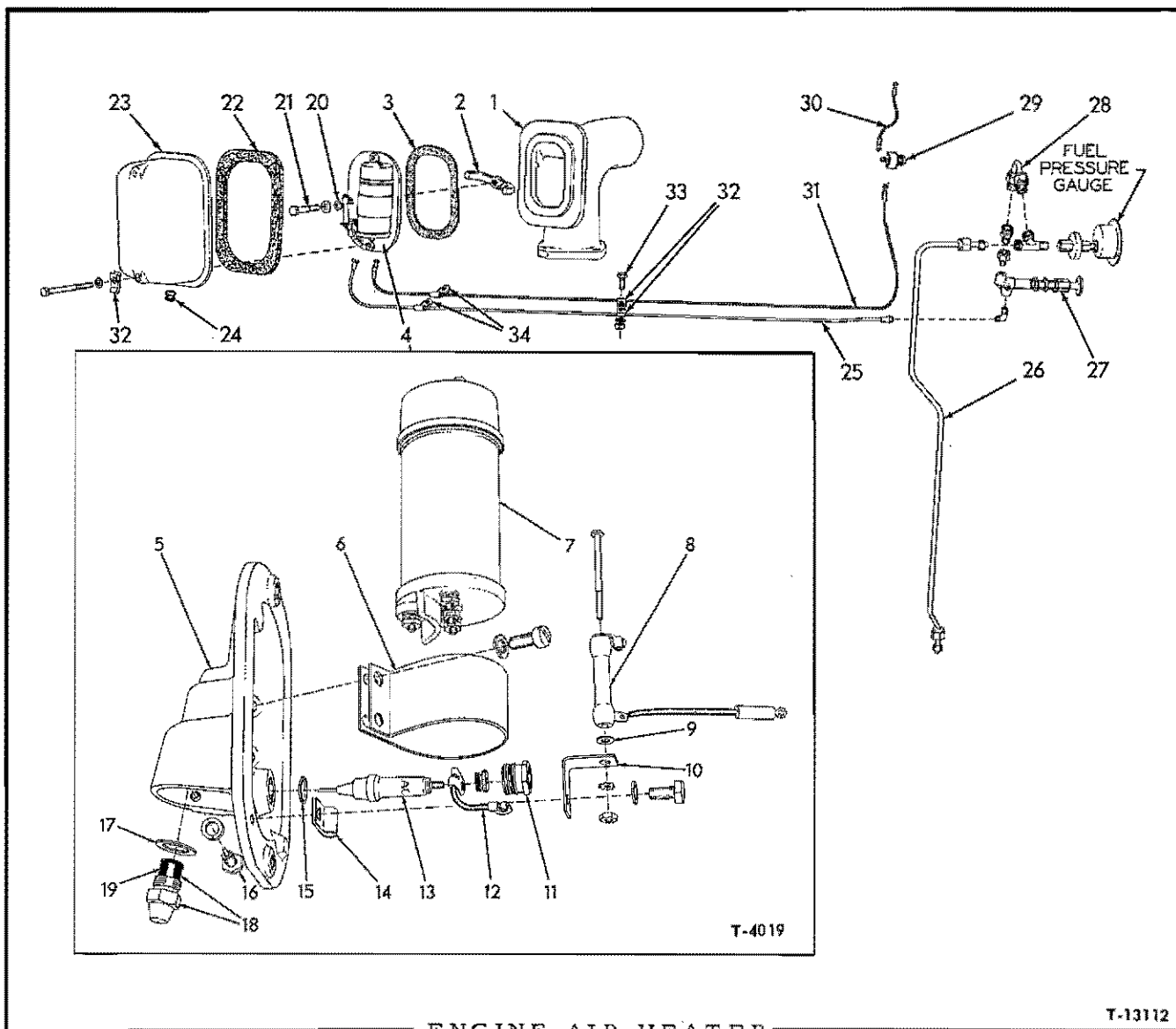
USAGE: See page 194

ITEM	PART NO.	QTY.	DESCRIPTION
1	70068878	1	BODY, fuel dispenser
2	70068879	1	CHAMBER, fuel dispenser
3	70069164	1	GASKET, fuel dispenser chamber
4	70905357	1	BALL, steel, 3/16" diam.
5	70066251	1	SPRING, plunger locking ball
6	70066252	1	PLUG, retaining, locking ball spring
7	70066255	1	PLUNGER, fuel dispenser
8	70068881	1	KNOB, fuel dispenser plunger
9	70068875	1	STRAINER, fuel dispenser
	70915432	1	SCREW, machine, 1/4"NC x 5/16"
10	70075770	1	PLUG, fuel dispenser strainer
11	70068876	1	GASKET, fuel dispenser strainer plug
12	70075769	1	CHAIN, strainer plug retaining
	70901781	1	SCREW, machine, fil-hd., #10-32NF x 1/2"



USAGE: See pages 194, 199, 201 and 203

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	PISTON ASSEMBLY (Not serviced separately)
2	70923560	2	O-RING
3	70066873	1	WASHER, mounting
4	70066872	3	NUT, mounting
5	-----	1	BARREL ASSEMBLY (Not serviced separately)
6	70066876	2	BALL, check valve (5/32" diam.)
7	70066875	2	SPRING, check valve
8	70066874	2	RETAINER, check valve



ENGINE AIR HEATER

USAGE: Prior to April 1958. Optional equipment in place of Engine Primer

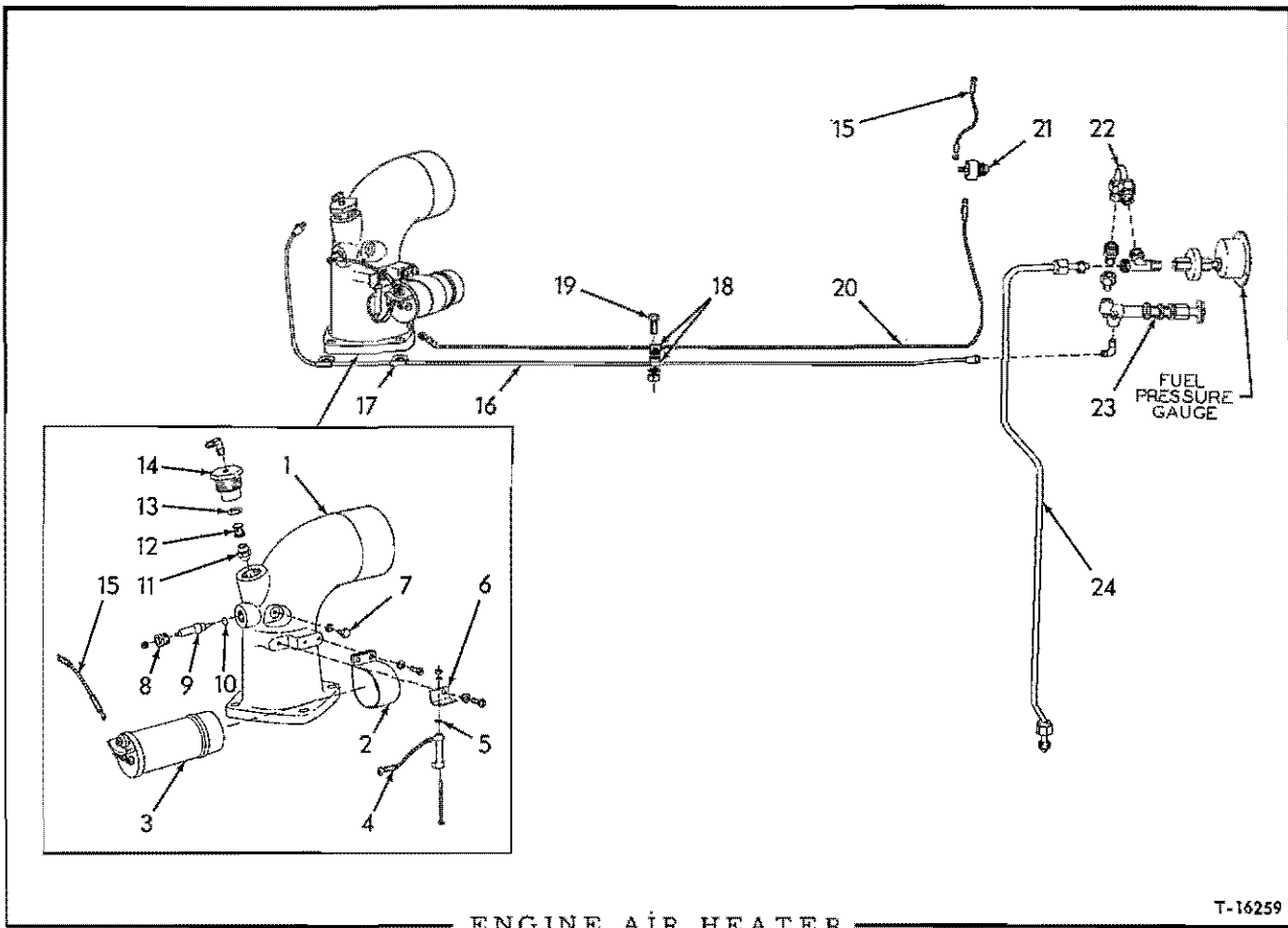
ITEM PART NO. QTY. DESCRIPTION

1	70084518	1	ELBOW, air intake (Replaces standard ELBOW 70083343)
2	5183129	1	△CLAMP, air heater
3	5150020	1	△GASKET, air heater to air intake elbow
4	70075471	1	HEATER ASSEMBLY (Consists of items 5 thru 19)
5	5153385	1	△BODY, air heater
	70910268	1	ELBOW, flare type, 3/16" tube, 1/8"NPT male
6	70631199	1	BRACKET, ignition coil mounting
	70912226	2	SCREW, machine, fil-hd., 1/4"NC x 5/8"
	70904204	2	LOCKWASHER, 1/4"
7	70097026	1	COIL, ignition (Serviced only as a unit)
8	70630830	1	RESISTOR
	70915922	1	SCREW, machine, #8-32 x 2-1/4"
	70915923	1	LOCKWASHER, external teeth, #8
	70907154	1	NUT, #8-32

(Continued)

ENGINE AIR HEATER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
9	70631198	1	WASHER, insulating
10	70630829	1	BRACKET, resistor mounting
	70906692	1	CAPSCREW, 1/4"NC x 3/8"
	70904204	1	LOCKWASHER, 1/4"
11	70630828	1	NUT, insulator retaining
12	5154125	1	ΔLEAD, coil to insulator (High tension)
13	70631226	1	INSULATOR PACKAGE (Includes terminal nut and item 15)
14	70238136	1	CLIP, tube supporting (3/16" diam., 9/32" bolt-hole)
15	70631566	1	GASKET, insulator
16	70630827	1	SCREW ASSEMBLY, electrode (1 screw and 1 electrode)
	70904204	1	LOCKWASHER, 1/4"
17	70630787	1	WASHER, spray nozzle
18	70631224	1	NOZZLE ASSEMBLY, spray (Includes item 19)
19	70631225	1	STRAINER ASSEMBLY, spray nozzle (1 body and 1 screen)
20	70040400	1	GASKET, heater attaching capscrew
21	70013059	1	CAPSCREW, heater attaching (3/8"NC x 2")
	70911115	1	WASHER, plain, SAE std., 3/8"
22	5154066	1	ΔGASKET, air heater cover (felt)
23	5158071	1	ΔCOVER, air heater
	70913189	2	CAPSCREW, 5/16"NC x 2-1/2"
	70904205	2	LOCKWASHER, 5/16"
24	70023176	1	GROMMET, air heater cover (rubber)
25	70050767	1	TUBE ASSEMBLY, pump to nozzle (Includes NUTS indented below)
	70910268	1	ELBOW, flare type, 3/16" tube, 1/8"NPT male
	70913676	2	NUT, flare type, long, 3/16" tube
26	70084522	1	TUBE, fuel pressure gauge (Replaces standard fuel pressure gauge tube)
	70915859	1	TEE, service, Sealastic, 3/8" tube
	70918325	2	NUT, Sealastic, 3/8" tube
	70915367	2	RING, Sealastic, 3/8" tube (Includes ferrule)
27	70092160	1	PUMP ASSEMBLY (See page 197 for parts)
	70910856	1	ADAPTER, reducing, 1/4"NPT female to 1/8"NPT male
28	70084521	1	TUBE, pump to fuel pressure gauge line
	70915368	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male
	70918325	2	NUT, Sealastic, 3/8" tube
	70915367	2	RING, Sealastic, 3/8" tube (Includes ferrule)
29	70031337	1	SWITCH, push button (Includes mounting nut)
30	70051006	1	CABLE, switch connecting
31	70084520	1	CABLE, switch to coil
32	70200479	6	CLIP, tube and cable supporting (3/16" diam., 13/32" bolt-hole)
33	70036032	2	CAPSCREW, 3/8"NF x 3/4"
	70904206	2	LOCKWASHER, 3/8"
	70911041	2	NUT, 3/8"NF
34	70223502	2	CLIP, tube supporting (3/16" diam., 17/32" bolt-hole)



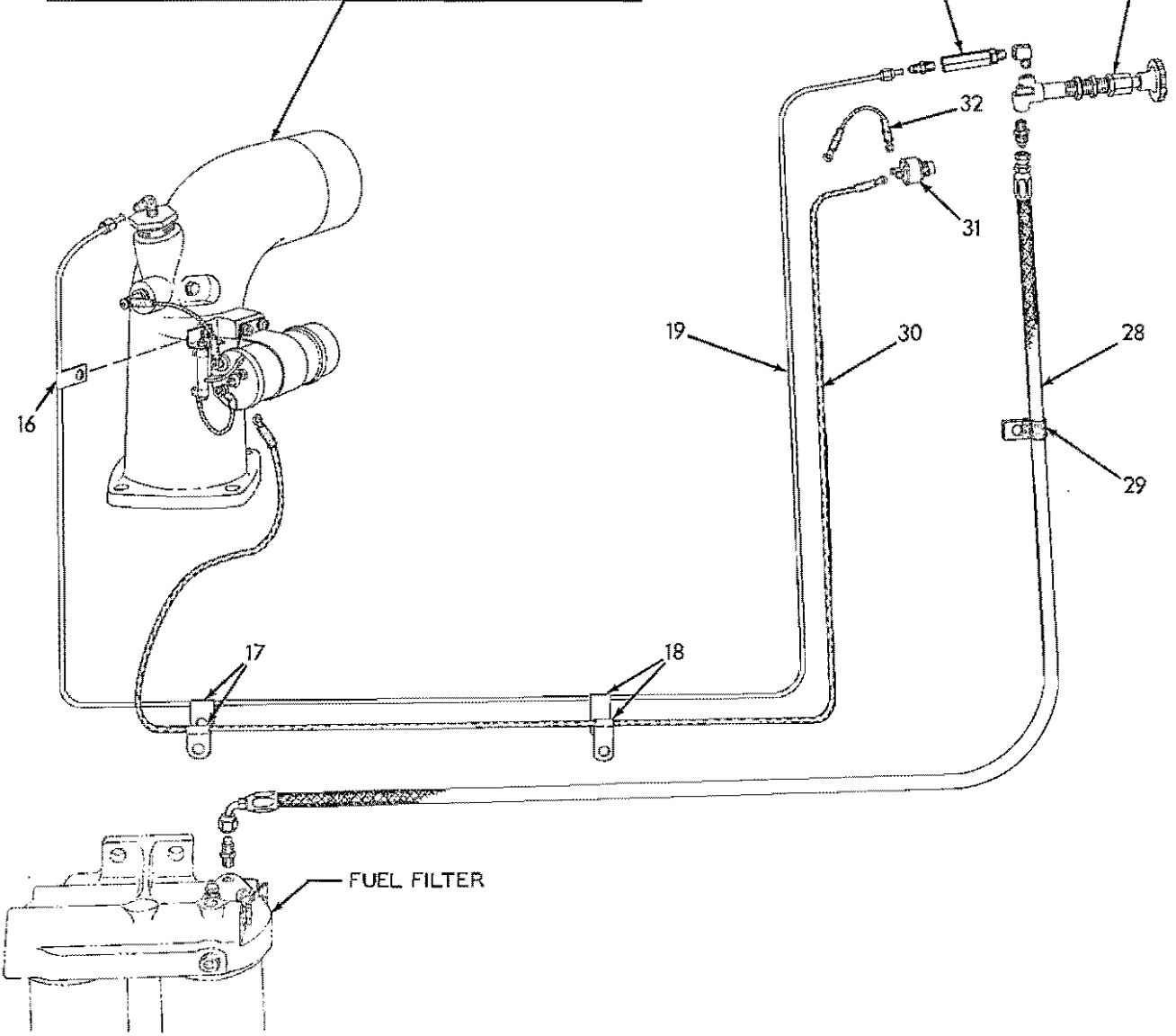
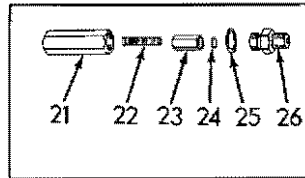
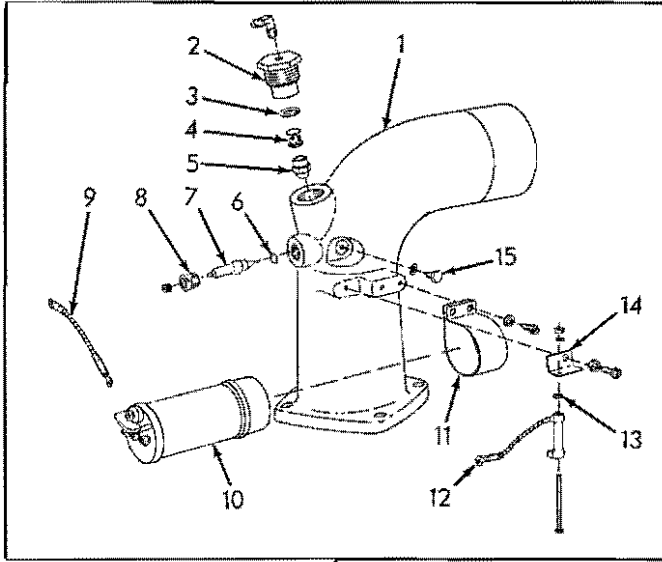
USAGE: Effective April 1958 but later discontinued with tractor serial No. 4001. Optional equipment in place of Engine Primer

ITEM	PART NO.	QTY.	DESCRIPTION
1	70090685	1	ELBOW, air intake (Replaces standard ELBOW 083343)
2	70631199	1	BRACKET, ignition coil mounting
	70912226	2	SCREW, machine, fil-hd., 1/4"NC x 5/8"
	70904204	2	LOCKWASHER, 1/4"
3	70097026	1	COIL, ignition (Serviced only as a unit)
4	70630830	1	RESISTOR
	70915922	1	SCREW, machine, #8-32 x 2-1/4"
	70915923	1	LOCKWASHER, external teeth, #8
	70907154	1	NUT, #8-32
5	70631198	1	WASHER, insulating
6	70644133	1	BRACKET, resistor mounting
	70912226	1	SCREW, machine, fil-hd., 1/4"NC x 5/8"
	70904204	1	LOCKWASHER, 1/4"
7	70630827	1	SCREW ASSEMBLY, electrode (1 screw and 1 electrode)
	70904204	1	LOCKWASHER, 1/4"

(Continued)

ENGINE AIR HEATER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	70630828	1	NUT, insulator retaining
9	70631226	1	INSULATOR PACKAGE (Includes terminal nut and item 10)
10	70631566	1	GASKET, insulator
11	70631224	1	NOZZLE ASSEMBLY, spray (Includes item 12)
12	70631225	1	STRAINER ASSEMBLY, spray nozzle (1 body and 1 screen)
13	70630787	1	WASHER, spray nozzle
14	70088038	1	BUSHING, spray nozzle
15	70051006	2	CABLE, switch connecting
16	70041255	1	TUBE ASSEMBLY, pump to nozzle (Includes NUTS indented below)
	70913676	2	NUT, flare type, long, 3/16" tube
	70910268	2	ELBOW, flare type, 3/16" tube, 1/8"NPT male
17	70223502	5	CLIP, tube supporting (3/16" diam., 17/32" bolt-hole)
18	70200479	4	CLIP, tube and cable supporting (3/16" diam., 13/32" bolt-hole)
19	70036032	2	CAPSCREW, 3/8"NF x 3/4"
	70904206	2	LOCKWASHER, 3/8"
	70911041	2	NUT, 3/8"NF
20	70091181	1	CABLE, switch to coil
21	70031337	1	SWITCH, push button (Includes mounting nut)
22	70084521	1	TUBE, pump to fuel pressure gauge line
	70915368	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male
	70918325	2	NUT, Sealastic, 3/8" tube
	70915367	2	RING, Sealastic, 3/8" tube (Includes ferrule)
23	70092160	1	PUMP ASSEMBLY (See page 197 for parts)
	70910856	1	ADAPTER, reducing, 1/4"NPT female to 1/8"NPT male
24	70084522	1	TUBE, fuel pressure gauge (Replaces standard fuel pressure gauge tube)
	70915859	1	TEE, service, Sealastic, 3/8" tube
	70918325	2	NUT, Sealastic, 3/8" tube
	70915367	2	RING, Sealastic, 3/8" tube (Includes ferrule)



ENGINE AIR HEATER (Third type)

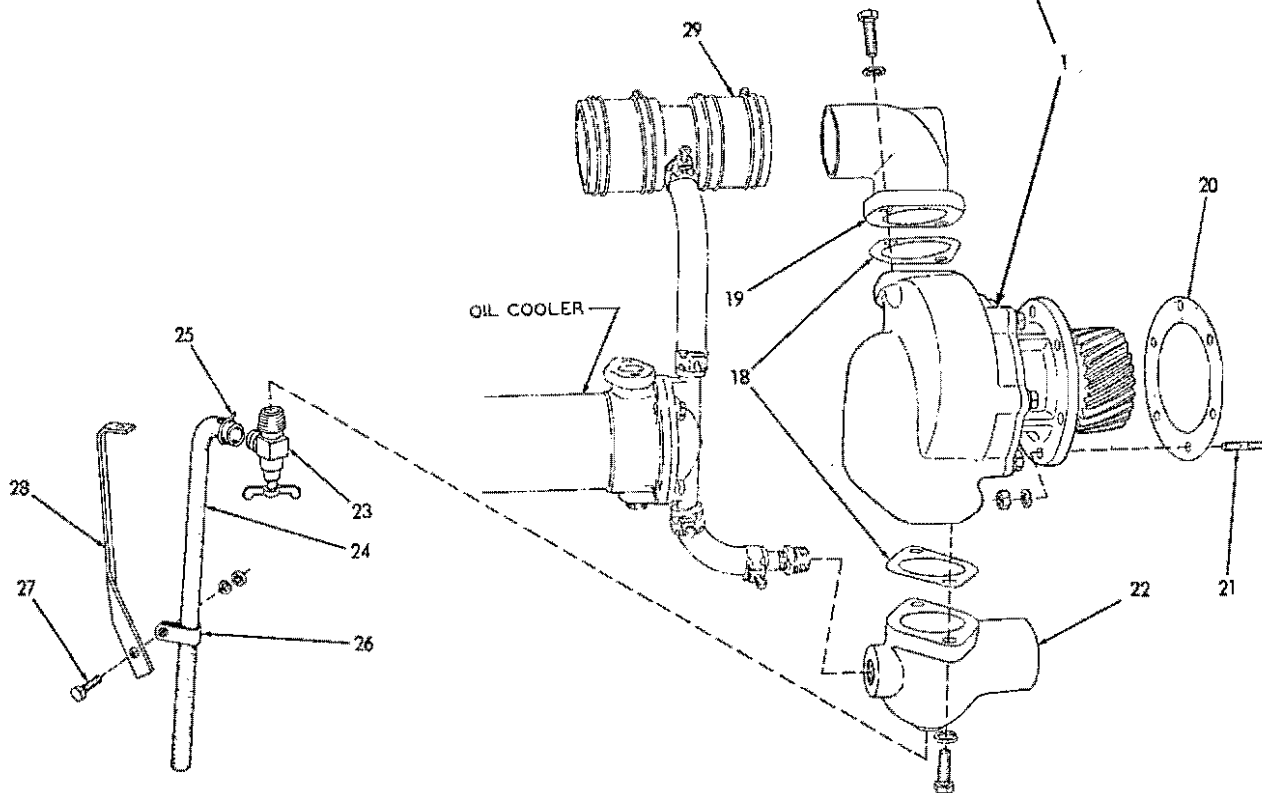
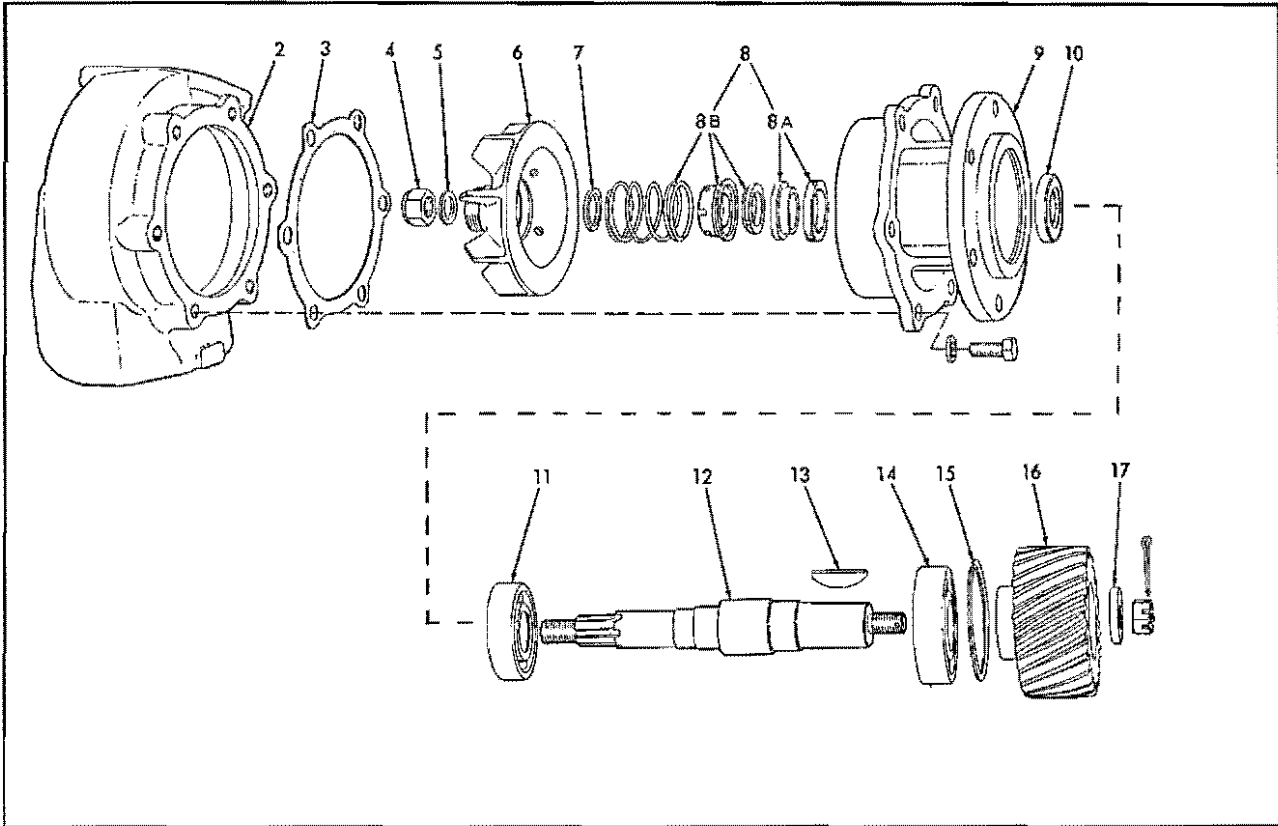
T-22561

ENGINE AIR HEATER

USAGE: Tractors serial No. 4001 and up. Optional equipment in place of Engine Primer.

ITEM	PART NO.	QTY.	DESCRIPTION
1	70097512	1	ELBOW, air intake (Replaces standard ELBOW 70097486)
2	70088038	1	BUSHING, spray nozzle
3	70630787	1	WASHER, spray nozzle
4	70631225	1	STRAINER ASSEMBLY, spray nozzle (1 body and 1 screen)
5	70631224	1	NOZZLE ASSEMBLY, spray (Includes item 4)
6	70631566	1	GASKET, insulator
7	70631226	1	INSULATOR PACKAGE (Includes terminal nut and item 6)
8	70630828	1	NUT, insulator retaining
9	70051006	1	CABLE, coil to insulator
10	70097026	1	COIL, ignition (Serviced only as a unit)
11	70631199	1	BRACKET, ignition coil mounting
	70912226	2	SCREW, machine, fil-hd., 1/4"NC x 5/8"
	70904204	2	LOCKWASHER, 1/4"
12	70630830	1	RESISTOR
	70915922	1	SCREW, machine #8-32 x 2-1/4"
	70915923	1	LOCKWASHER, external teeth, #8
	70907154	1	NUT, #8-32
13	70631198	1	WASHER, insulating
14	70644133	1	BRACKET, resistor mounting
	70912226	1	SCREW, machine, fil-hd., 1/4"NC x 5/8"
	70904204	1	LOCKWASHER, 1/4"
15	70630827	1	SCREW ASSEMBLY, eletrode (1 screw and 1 electrode)
	70904204	1	LOCKWASHER, 1/4"
16	70200479	1	CLIP, tube supporting (3/16" diam., 13/32" bolt-hole)
17	70223502	2	CLIP, supporting, tube and cable (3/16" diam., 17/32" bolt-hole)
18	70073809	2	CLIP, supporting, tube and cable (3/16" diam., 13/32" bolt-hole)
19	70094665	1	TUBE ASSEMBLY, pump to nozzle (Includes nuts)
	70919204	1	ELBOW, flare type, 3/16" tube, 1/8"NPT male
	70919244	1	CONNECTOR, flare type, 3/16" tube, 1/8"NPT male
20	70094642	1	VALVE ASSEMBLY, check (Consists of items 21 thru 26)
21	70094890	1	BODY, check valve
22	70048603	1	SPRING, check valve
23	70048608	1	PLUNGER, check valve
24	70048606	1	DISC, check valve
25	70630713	1	WASHER, check valve
26	70092793	1	CONNECTOR, check valve
27	70092160	1	PUMP ASSEMBLY (see page 197 for parts)
	70915399	1	ELBOW, street, 90°, brass, 1/8"NPT
28	70097207	1	HOSE ASSEMBLY, fuel filter to pump (See page 6 for parts)
	70919171	2	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
29	70094527	1	CLIP, hose supporting
30	70067177	1	CABLE, switch to coil
31	70031337	1	SWITCH, push-button
32	70051006	1	CABLE, switch connecting

} Used prior to tractor #5043



WATER PUMP (First Type)

T-13082

WATER PUMP

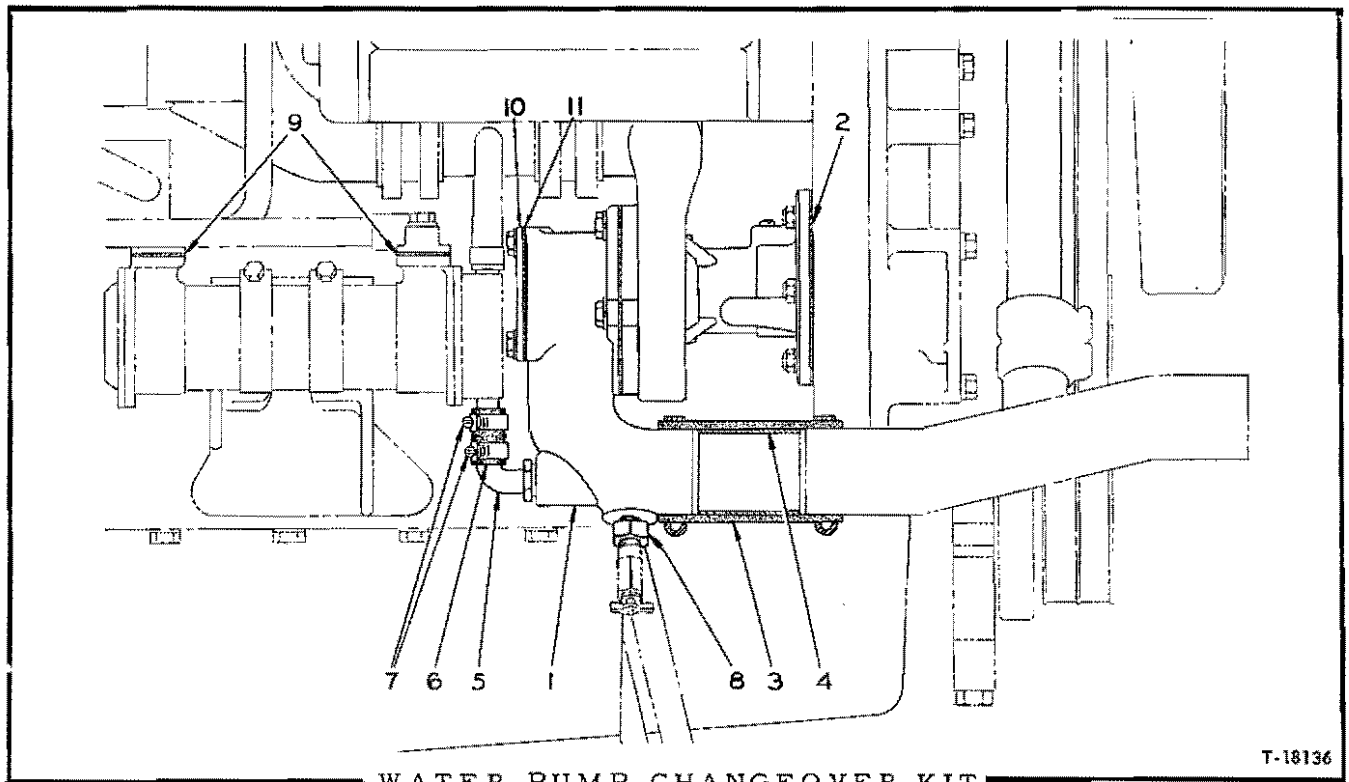
USAGE: Engines prior to serial No. 16-2743. See page 207 for later type water pump changeover kit.

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	PUMP ASSEMBLY, water (Order water pump CHANGE-OVER KIT 74375966)
2	74375279	1	HOUSING, impeller (When making first replacement also order one each GASKET 74030481, PLATE 74375755; two each CAPSCREW 70903775, LOCKWASHER 70904206)
3	74369010	1	GASKET, impeller housing
4	74369620	1	NUT, impeller retaining
5	74369619	1	WASHER, impeller retaining
6	74375080	1	IMPELLER
7	74369618	1	WASHER, impeller
8	74369006	1	SEAL KIT (Consists of items 8A and 8B)
8A	74369012	1	SEAT, ceramic (Includes rubber sealing ring)
8B	74369007	1	SPRING ASSEMBLY, seal (Includes rear seal face)
9	74371887	1	BODY, pump
	70903775	6	CAPSCREW, 3/8"NC x 7/8"
	70916965	6	LOCKWASHER, plated, 3/8"
10	74369005	1	SEAL, oil
11	74253870	1	BEARING, ball, pump shaft, rear
12	74373645	1	SHAFT, pump
	70910867	1	NUT, slotted, 1/2"NF
	70900802	1	PIN, cotter, 3/32" x 1"
13	74660677	1	KEY, drive gear
14	74253871	1	BEARING, ball, pump shaft, front
15	74363488	1	RING, snap, bearing retaining
16	74373266	1	GEAR, driving
17	74363489	1	WASHER, gear retaining
18	74310257	2	□GASKET, connecting elbows
19	74368928	1	ELBOW, water outlet
	70904706	2	CAPSCREW, 7/16"NC x 1-1/4"
	70904207	2	LOCKWASHER, 7/16"
20	74376398	1	□GASKET, mounting
21	74371116	5	STUD, water pump
	70910123	5	NUT, 3/8"NF
	70904206	5	LOCKWASHER, 3/8"

(Continued)

WATER PUMP (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
22	74373723	1	ELBOW, water inlet
	70904706	2	CAPSCREW, 7/16"NC x 1-1/4"
	70904207	2	LOCKWASHER, 7/16"
23	70079751	1	COCK, water drain (1/4"NPT)(Used prior to tractor #1605)
	70089894	1	COCK, water drain (3/8"NPT)(Effective with tractor #1605)
24	70089604	1	HOSE, water drain (3/8"L.D.)(Used prior to tractor #1605)
	70643744	1	HOSE, water drain (5/8"L.D.)(Effective with tractor #1605)
25	70089879	1	CLAMP, hose, spring type, 9/16" diam. (Used prior to tractor #1605)
	70089107	1	CLAMP, hose, spring type, 15/16" diam. (Effective with tractor #1605)
26	70069657	1	CLIP, hose supporting
27	70036034	1	CAPSCREW, 3/8"NF x 1"
	70904206	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF
28	70082613	1	BRACKET, supporting, water drain hose
29	-----	-	HOSE (See WATER INLET MANIFOLD AND HEAT EXCHANGER)

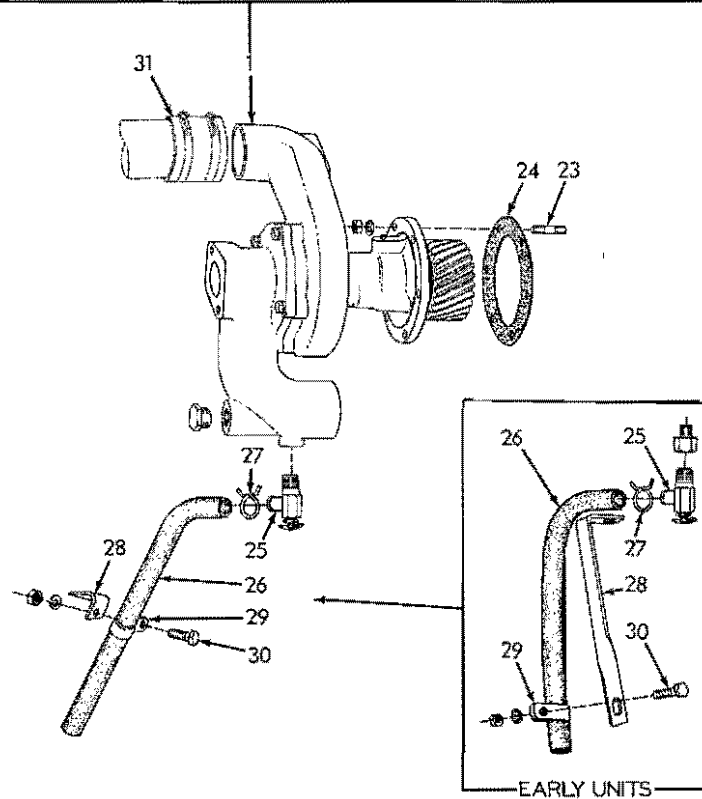
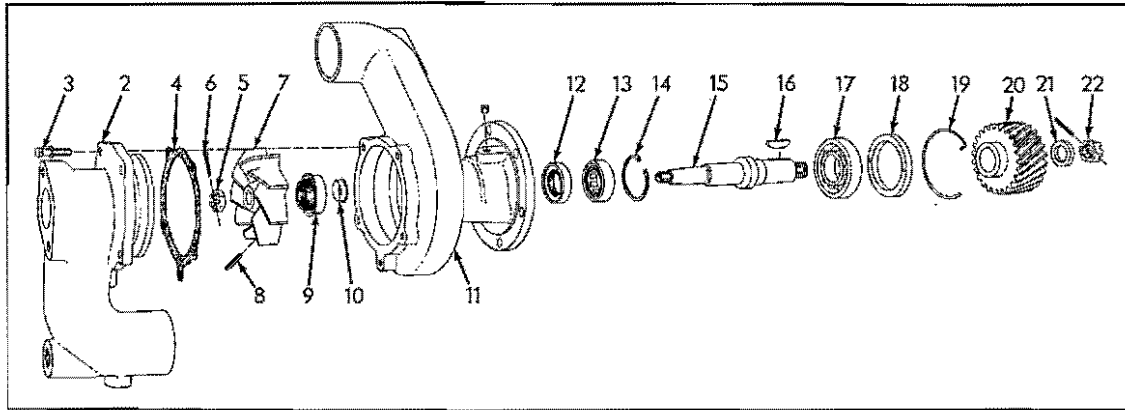


WATER PUMP CHANGEOVER KIT

T-18136

USAGE: For engines prior to serial No. 16-2743

ITEM	PART NO.	QTY.	DESCRIPTION
-	74375966	1	CHANGEOVER KIT, water pump (Consists of items 1 thru 11)
1	74387254	1	PUMP ASSEMBLY, water (See page 208 for parts)
2	74376398	1	□ GASKET, pump mounting
3	74375967	1	HOSE, water inlet (2-1/2" I. D. x 5-1/2")
4	74375968	1	TUBE, water inlet hose
5	74375972	1	ELBOW, oil cooler hose
6	74375970	1	HOSE, oil cooler (5/8" I. D. x 1-7/8")
7	70921911	2	CLAMP, hose
8	70912483	1	ADAPTER, reducing, 3/8" NPT female to 1/4" NPT male
9	74371027	2	GASKET, oil cooler connections
10	74375755	1	PLATE, by-pass hole cover
	70903775	2	CAPSCREW, 3/8" NC x 7/8"
	70904206	2	LOCKWASHER, 3/8"
11	74030481	1	□ GASKET, by-pass hole cover plate



WATER PUMP

T-17499

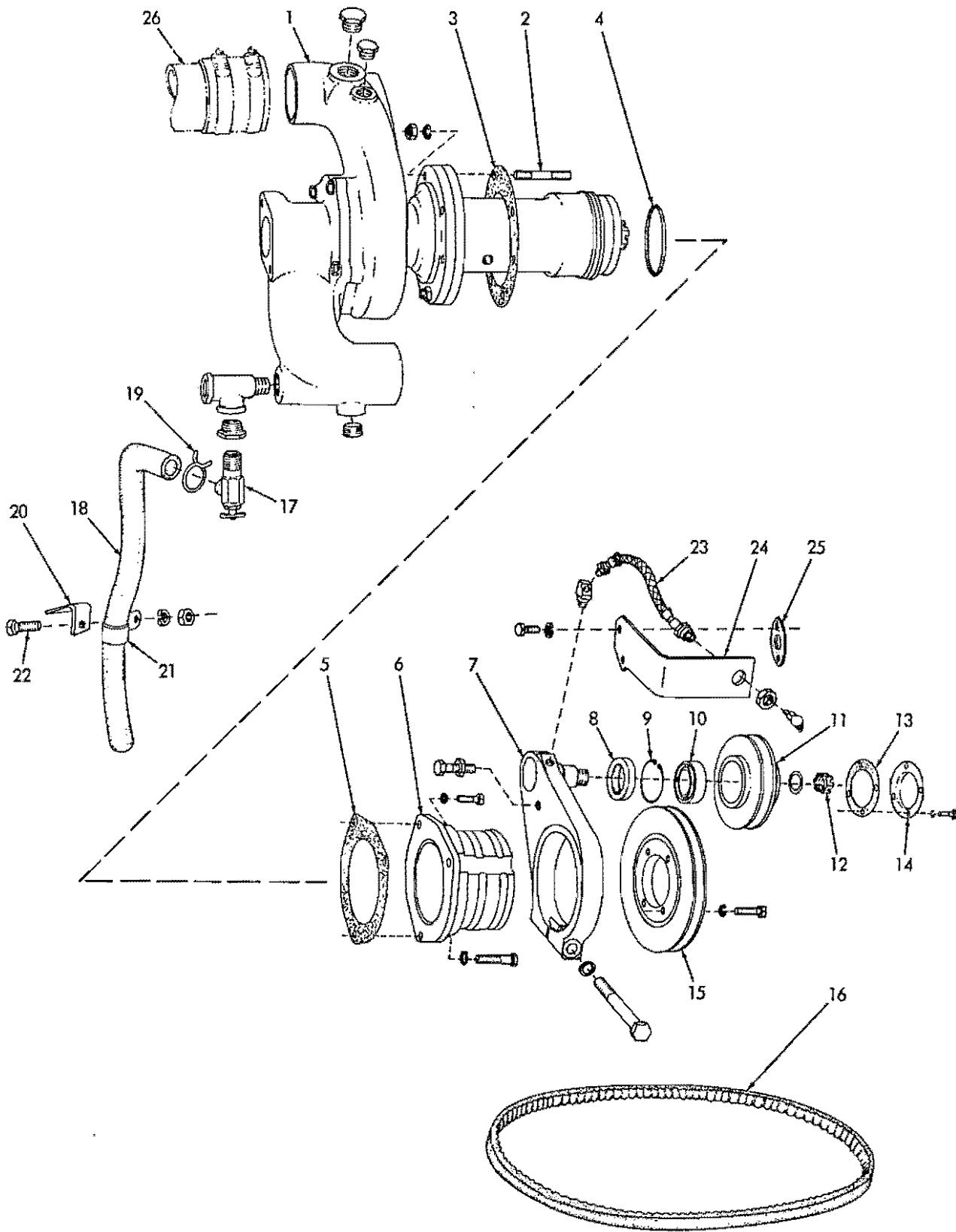
USAGE: Engines serial No. 16-2743 thru No. 16-05388. Also see page 207 for Pump Changeover Kit for prior units.

ITEM	PART NO.	QTY.	DESCRIPTION
1	74387254	1	PUMP ASSEMBLY, water (Consists of item 2 thru 22)
	70920416	1	PLUG, pipe, hex-hd., 1/2"NPT (Effective with tractor #4001)
2	74375682	1	COVER, pump inlet
	-----	1	PLUG, pipe, 3/8"NPT (For shipping only)
3	74041092	4	CAPSCREW ASSEMBLY (Includes lockwasher)
4	74372421	1	GASKET, pump inlet cover
5	74375686	1	NUT, impeller retaining

(Continued)

WATER PUMP (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
6	74041097	1	PIN, cotter, impeller retaining nut
7	74389359	1	IMPELLER ASSEMBLY (includes ceramic insert)
8	74375694	1	PIN, groove, impeller retaining
9	74386862	1	SEAL ASSEMBLY (Serviced only as a unit)
10	74375695	1	FLINGER, water (Used prior to engine #16-4880)
11	74375685	1	BODY, pump (Used prior to engine #16-4936)
	74387255	1	BODY, pump (Effective with engine #16-4936)
	70910230	1	PLUG, pipe, slotted-hd., 1/8"NPT
12	74660478	1	SEAL, oil
13	74041098	1	BEARING, roller, pump shaft, rear (1.850 O. D.) (Used prior to engine #16-4936)
	74255338	1	BEARING, roller, pump shaft, rear (2.047 O. D.) (Effective with engine #16-4936)
14	74041099	1	RING, snap, bearing retaining (2" O. D.) (Used prior to engine #16-4936)
	74254100	1	RING, snap, bearing retaining (2-1/4" O. D.) (Effective with engine #16-4936)
15	74386861	1	SHAFT, pump (nickel-plated) (Used prior to engine #16-4936)
	74387256	1	SHAFT, pump (stainless steel) (Effective with engine #16-4936)
16	74660677	1	KEY, pump shaft
17	74253871	1	BEARING, ball, pump shaft, front
18	74375690	1	RETAINER, ball bearing
19	74371707	1	LOCKWIRE, bearing retaining
20	74373266	1	GEAR, driving
21	74375691	1	WASHER, gear retaining
22	74052167	1	NUT, gear retaining
	70900808	1	PIN, cotter, 1/8" x 1-1/2"
23	74371116	5	STUD, water pump
	70904206	5	LOCKWASHER, 3/8"
	70910123	5	NUT, 3/8"NF
24	74376398	1	GASKET, pump mounting
25	70089894	1	COCK, water drain
	70912483	1	ADAPTER, reducing, 3/8"NPT female to 1/4"NPT male (Used prior to engine #16-2753)
26	70643744	1	HOSE, water drain
27	70089107	1	CLAMP, hose (spring type, 15/16" diam.)
28	70082613	1	BRACKET, supporting, water drain hose (Used prior to tractor #2939)
	70096208	1	ANGLE, supporting, water drain hose (Effective with tractor #2939)
29	70069657	1	CLIP, hose supporting
30	70035167	1	CAPSCREW, 3/8"NF x 7/8"
	70904206	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF
31	-----	-	HOSE (See WATER INLET MANIFOLD AND HEAT EXCHANGER)



WATER PUMP (Third type)

T-37186

WATER PUMP

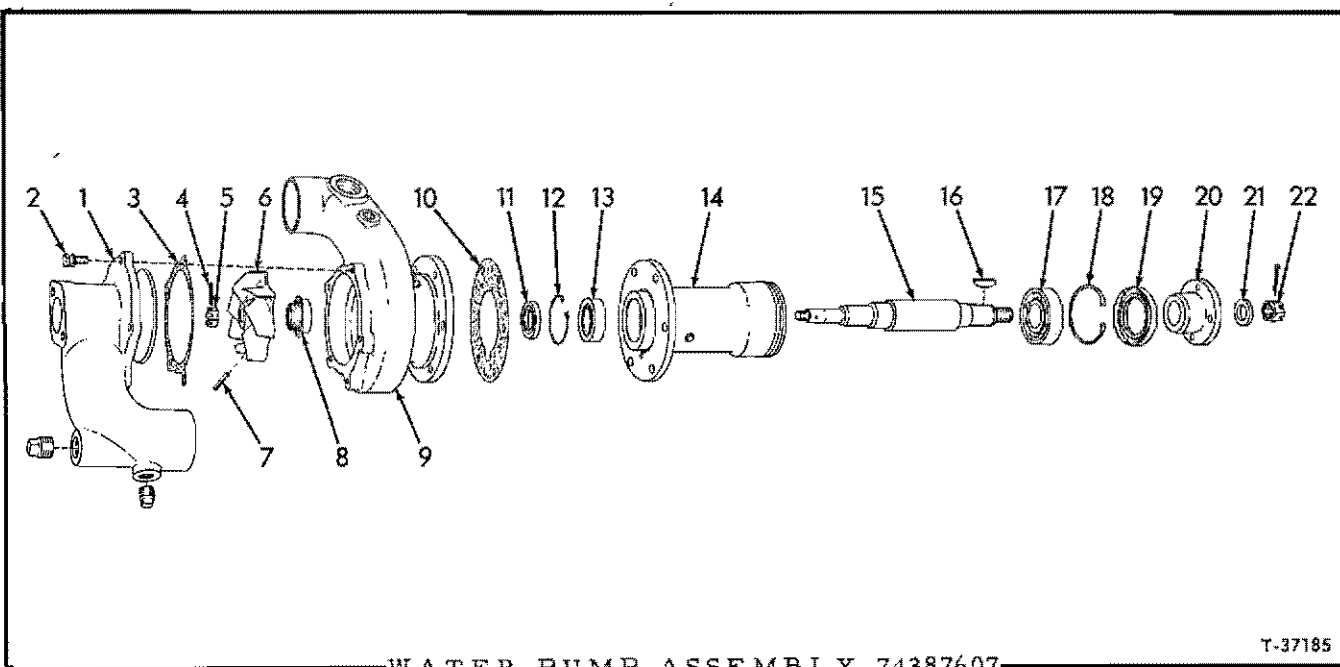
USAGE: Engines serial No. 16-05389 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	74387607	1	PUMP ASSEMBLY (See page 209D for parts)
	70918887	1	PLUG, pipe, hex-socket, 3/8"NPT
	70920333	1	PLUG, pipe, hex-hd., 3/8"NPT
	70921073	1	PLUG, pipe, hex-hd., 1"NPT
2	74513810	5	STUD, attaching
	70904206	5	LOCKWASHER, 3/8"
	70910123	5	NUT, 3/8"NF
3	74376398	1	□ GASKET, pump mounting
4	70923935	1	O-RING, pump body
5	74361740	1	GASKET, idler support
6	74386855	1	SUPPORT, belt tightening idler
	70919224	1	CAPSCREW, 3/8"NC x 1-1/8"
	70912069	2	CAPSCREW, 3/8"NC x 2-1/2"
	70904206	3	LOCKWASHER, 3/8"
7	74388518	1	BRACKET, supporting, idler pulley
	70916320	1	CAPSCREW, 1/2"NC x 4" (For clamping)
	70904208	1	LOCKWASHER, 1/2"
	70916314	1	CAPSCREW, 1/2"NC x 2" (For adjusting)
	70910510	1	NUT, jam, 1/2"NC
8	74254670	1	SEAL, oil, idler pulley
9	74254100	1	RING, snap, idler pulley
10	74255031	1	BEARING, ball, idler pulley
11	74387294	1	PULLEY, idler
12	70917626	1	NUT, self-locking, 3/4"NF
	70910819	1	WASHER, plain
13	74347752	1	GASKET, idler pulley cover
14	74347751	1	COVER, idler pulley
	70915343	4	CAPSCREW, 1/4"NC x 5/8"
	70904204	4	LOCKWASHER, 1/4"
15	74386824	1	PULLEY
	70916225	4	CAPSCREW, 3/8"NF x 1"
	70904206	4	LOCKWASHER, 3/8"
16	74388434	1	BELT, pump driving
17	70089894	1	COCK, water drain
	70914087	1	TEE, pipe, service, 1/2"NPT
	70904271	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT
18	70643744	1	HOSE, water drain
19	70089107	1	CLAMP, hose, spring type, 15/16" diam.
20	70096208	1	ANGLE, supporting, water drain hole

(Continued)

WATER PUMP (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
21	70069657	1	CLIP, drain hose
22	70035167	1	CAPSCREW, 3/8"NF x 7/8"
	70904206	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF
23	70605782	1	HOSE, lubricating
	70914464	1	ELBOW, adapting, 45°, 1/8"NPT male and female
	70915275	1	FITTING, lubricating, 65°, 1/8"NPT
	70903574	1	NUT, jam, 5/8"NC
24	74387993	1	BRACKET, lubricating hose
	70915408	2	CAPSCREW, 3/8"NC x 3/4"
	70904206	2	LOCKWASHER, 3/8"
25	74371027	1	GASKET, lubricating hose bracket
26	-----	1	HOSE (See WATER INLET MANIFOLD AND HEAT EXCHANGER)



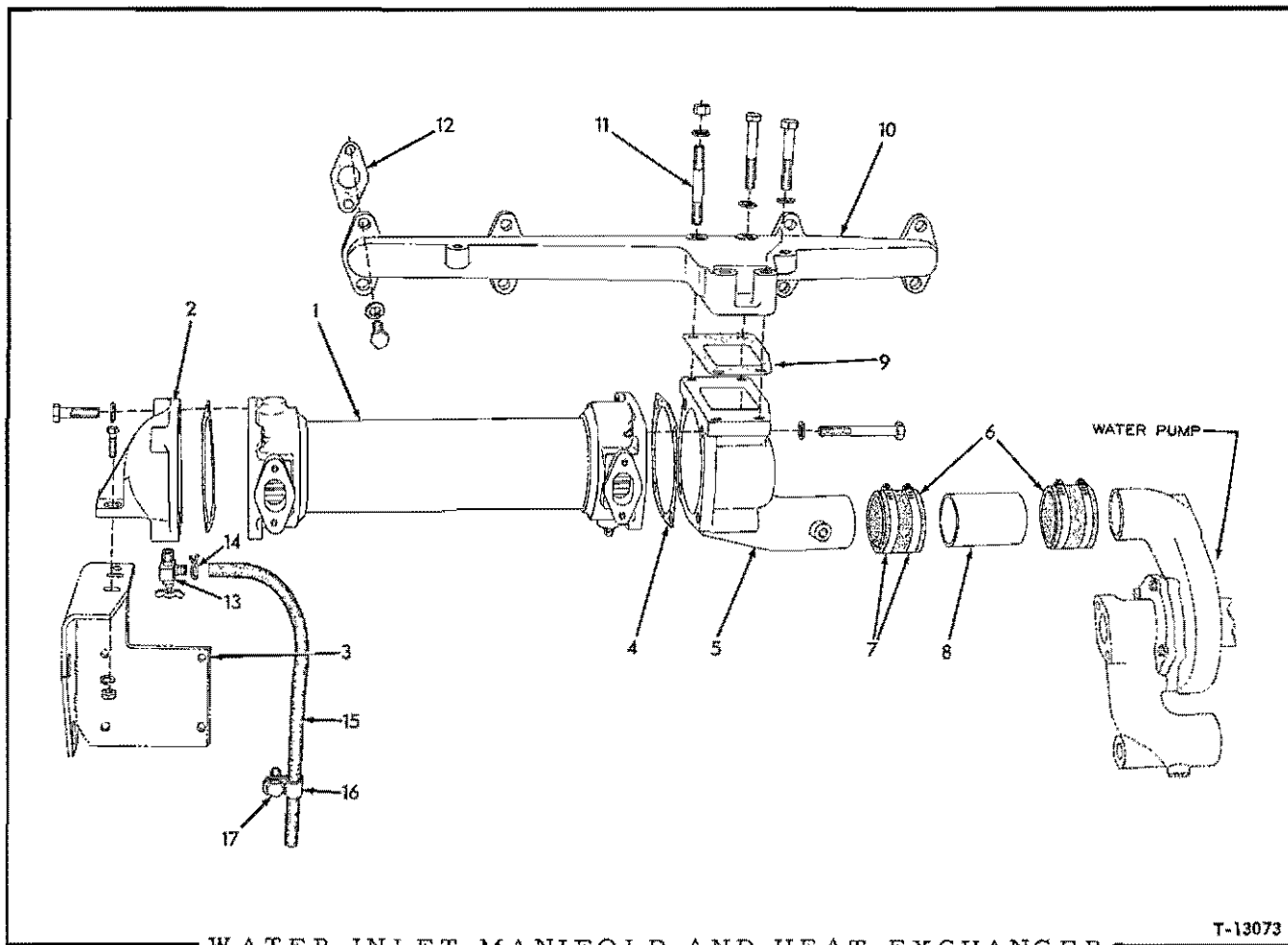
WATER PUMP ASSEMBLY 74387607

T-37185

WATER PUMP ASSEMBLY 4387607

USAGE: See page 209B

ITEM	PART NO.	QTY.	DESCRIPTION
1	74375682	1	COVER, pump inlet
	-----	1	PLUG, pipe, 3/8"NPT (bottom)
	-----	1	PLUG, pipe, 1/2"NPT (rear)
2	74041092	4	CAPSCREW ASSEMBLY (Includes lockwasher)
3	74372421	1	GASKET, pump inlet cover
4	74041097	1	PIN, cotter, impeller retaining nut
5	74375686	1	NUT, impeller retaining
6	74386860	1	IMPELLER ASSEMBLY (Includes ceramic insert)
7	74375694	1	PIN, impeller retaining
8	74386862	1	SEAL ASSEMBLY (Serviced only as a unit)
9	74387609	1	BODY, pump
10	74387051	1	GASKET, pump body
11	74387605	1	SEAL, oil, rear end
12	74254100	1	RING, snap, rear bearing
13	74255338	1	BEARING, roller (rear)
14	74387050	1	SLEEVE, extension
15	74387606	1	SHAFT
16	74660677	1	KEY, pump shaft
17	74253871	1	BEARING, ball (front)
18	74253318	1	RING, snap, front bearing
19	74254948	1	SEAL, oil, front end
20	74386924	1	HUB, drive
21	74375691	1	WASHER, hub retaining
22	74052167	1	NUT, hub retaining
	70900808	1	PIN, cotter, 1/8" x 1-1/2"



WATER INLET MANIFOLD AND HEAT EXCHANGER

T-13073

USAGE: Tractors prior to serial No. 4001

* Tractors with torque converter
 ** Tractors without torque converter

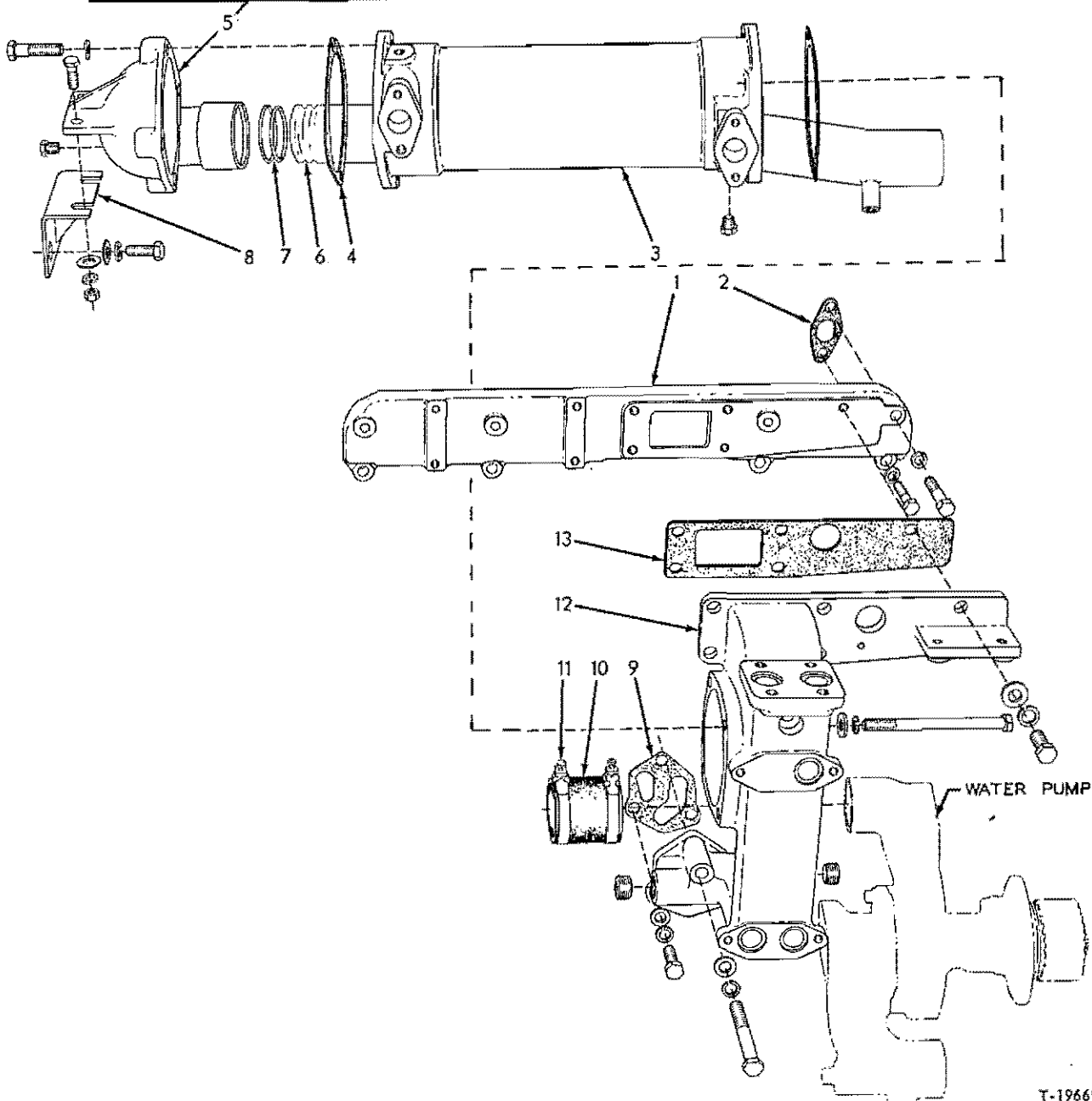
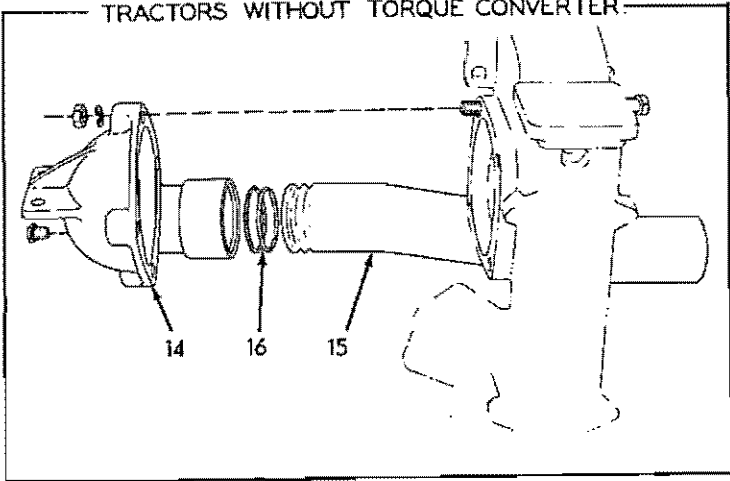
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	74369806	1	-	EXCHANGER, heat (5/16"NC threads)(Used prior to engine #16-2999)
	74376100	1	-	EXCHANGER, heat (3/8"NC threads)(Effective with engine #16-2999)
	70906700	4	-	CAPSCREW, 1/2"NC x 3-3/4"
	70904208	4	-	LOCKWASHER, 1/2"
2	74373724	1	1	BONNET, heat exchanger and water inlet
	70907070	-	1	PLUG, pipe, ctsk., 1/4"NPT
	70917010	4	-	CAPSCREW, 1/2"NC x 1-7/8"
	70910257	-	4	CAPSCREW, 1/2"NC x 4-3/4"
	70904208	4	4	LOCKWASHER, 1/2"
	70910325	-	4	NUT, 1/2"NC
	70910211	2	-	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	2	-	LOCKWASHER, 3/8"
	70910324	2	-	NUT, 3/8"NC
3	-----	1	-	BRACKET, heat exchanger and generator regulator (See GENERATOR)

(Continued)

WATER INLET MANIFOLD AND HEAT EXCHANGER (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
4	74371160	2	1	□ GASKET, heat exchanger
5	74369814	1	1	INLET, water, heat exchanger to manifold (Used prior to engine #81526)
	74372428	1	1	INLET, water, heat exchanger to manifold (Used on engines #81526 thru #16-2742)
	74375659	1	1	INLET, water, heat exchanger to manifold (Effective with engine #16-2742)
	70903781	2	2	CAPSCREW, 1/2"NC x 2-3/4"
	70903782	1	1	CAPSCREW, 1/2"NC x 3-1/2" (Also attaches oil filter)
	70904208	3	3	LOCKWASHER, 1/2"
6	74014655	2	2	HOSE, water tee (2-1/2" I.D. x 2-1/2" long) (Used prior to engine #16-2742)
	74361978	2	2	HOSE, water tube (2-1/2" I.D. x 2" long) (Effective with engine #16-2742)
7	74253464	4	4	CLAMP, hose
8	74373699	1	1	TEE, water pump to heat exchanger (Has connection for oil cooler water line) (Used prior to engine #16-2742)
	74375707	1	1	TUBE, water pump to heat exchanger (Effective with engine #16-2742)
9	74369830	1	1	GASKET, water inlet to manifold (Used prior to engine #81526)
	74372429	1	1	□ GASKET, water inlet to manifold (Effective with engine #81526)
10	74369828	1	1	MANIFOLD, cylinder block water inlet (Used prior to engine #81526)
	74372427	1	1	MANIFOLD, cylinder block water inlet (Effective with engine #81526)
	70903639	8	8	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	8	8	LOCKWASHER, 1/2"
11	74611458	1	1	STUD, water inlet (1/2" diam.) (Also attaches oil filter)
	70904208	1	1	LOCKWASHER, 1/2"
	70910195	1	1	NUT, 1/2"NF
12	74385520	4	4	□ GASKET, water inlet manifold
<u>NOTE:</u> Items 13 thru 17 became effective with tractor serial No. 1508				
13	70079751	1	-	COCK, water drain
14	70089879	1	-	CLAMP, water drain hose
15	70089604	1	-	HOSE, water drain
16	70048145	1	-	CLIP, hose supporting
17	70035221	1	-	CAPSCREW, 1/2"NC x 1"
	70904208	1	-	LOCKWASHER, 1/2"

TRACTORS WITHOUT TORQUE CONVERTER



WATER INLET MANIFOLD AND HEAT EXCHANGER (Second type)

T-19669

WATER INLET MANIFOLD AND HEAT EXCHANGER

USAGE: Tractors serial No. 4001 and up.

* Tractors with torque converter
 ** Tractors without torque converter

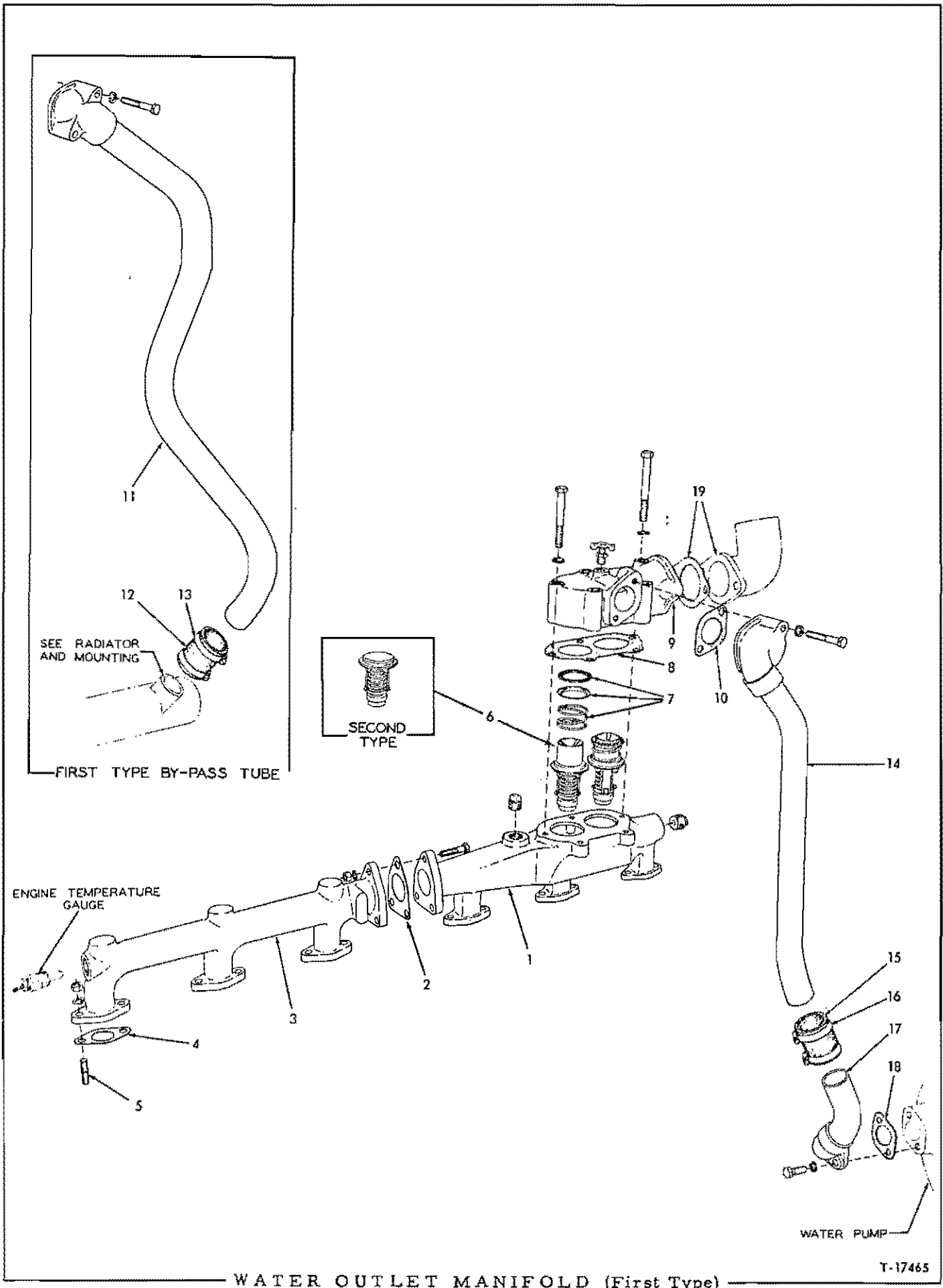
ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
1	74385541	1	1	MANIFOLD, water inlet	
	70919231	4	4	CAPSCREW, 1/2"NC x 1-7/8"	
	70916317	4	4	CAPSCREW, 1/2"NC x 2-3/4"	
	70904208	8	8	LOCKWASHER, 1/2"	
2	74385520	4	4	□GASKET, water inlet manifold	
3	74377645	1	-	EXCHANGER, heat, torque converter fluid	
	70919840	1	-	PLUG, pipe, hex-hd., 1/4"NPT	
	70916322	4	-	CAPSCREW, 1/2"NC x 5"	
	70904208	4	-	LOCKWASHER, 1/2"	
	70916009	4	-	WASHER, plain	
4	74371160	2	1	□GASKET, heat exchanger	
5	74378070	1	-	BONNET, heat exchanger (If for engines prior to #16-3150 also order items 6 and 7)	
	70919840	1	-	PLUG, pipe, hex-hd., 1/4"NPT	
	70903632	2	-	CAPSCREW, 3/8"NC x 1-1/2"	
	70911115	2	-	WASHER, plain, SAE std., 3/8"	
	70904206	2	-	LOCKWASHER, 3/8"	
	70910324	2	-	NUT, 3/8"NC	
	70919231	4	-	CAPSCREW, 1/2"NC x 1-7/8"	
	70904208	4	-	LOCKWASHER, 1/2"	
	6	74378069	1	-	TUBE, pump to bonnet (Used on engines #16-3150 thru #16-4407)
		74385985	1	-	TUBE, pump to bonnet (Used on engines #16-4408 thru #16-05388)
74386957		1	-	TUBE, pump to bonnet (Effective with engine #16-05389)	
7	70923651	2	-	□O-RING, bonnet tube (Effective with engine #16-3150)	
8	74377248	1	-	BRACKET, supporting, heat exchanger	
	70903638	2	-	CAPSCREW, 1/2"NC x 1-1/4"	
	70904208	2	-	LOCKWASHER, 1/2"	
	70910244	2	-	WASHER, plain, SAE std., 1/2"	
9	74386495	1	1	□GASKET, manifold to block	
10	74378278	1	-	HOSE, heat exchanger to water pump	
	74378843	-	1	HOSE, heat exchanger to water pump	
11	74253464	2	2	CLAMP, hose	

(Continued)

WATER INLET MANIFOLD AND HEAT EXCHANGER (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
12	74377455	1	1	MANIFOLD ASSEMBLY, water and oil (Includes PLUGS indented below)(Used prior to engine #16-5686)
	70904224	2	2	PLUG, pipe, ctsk , 3/4"NPT
	74389062	1	1	MANIFOLD, water and oil (Effective with engine #16-5586)
	70916311	5	5	CAPSCREW, 1/2"NC x 1-1/4"
	70915987	2	2	CAPSCREW, 1/2"NC x 1-1/2"
	70914399	1	1	CAPSCREW, 1/2"NC x 3-3/4" (Engines prior to #16-5586)
	70916320	1	1	CAPSCREW, 1/2"NC x 4" (Engines #16-5586 and up)
	70904208	8	8	LOCKWASHER, 1/2"
	70912333	8	8	WASHER, plain
13	74376809	1	1	□GASKET, water and oil manifold
14	74378070	-	1	BONNET, water inlet (If for engine prior to #16-3222 also order items 15 and 16)
	70919840	-	1	PLUG, pipe, hex-hd. , 1/4"NPT
	70916324	-	4	CAPSCREW, 1/2"NC x 6"
	70904208	-	4	LOCKWASHER, 1/2"
	70910325	-	4	NUT, 1/2"NC
		74378071	-	1
15	74385994	-	1	TUBE, pump to bonnet (Used on engines #16-4408 thru #16-05388)
	74386950	-	1	TUBE, pump to bonnet (Effective with engine #16-05389)
16	70923651	-	2	□O-RING, bonnet tube (Effective with engine #16-3222)

MEMO



WATER OUTLET MANIFOLD (First Type)

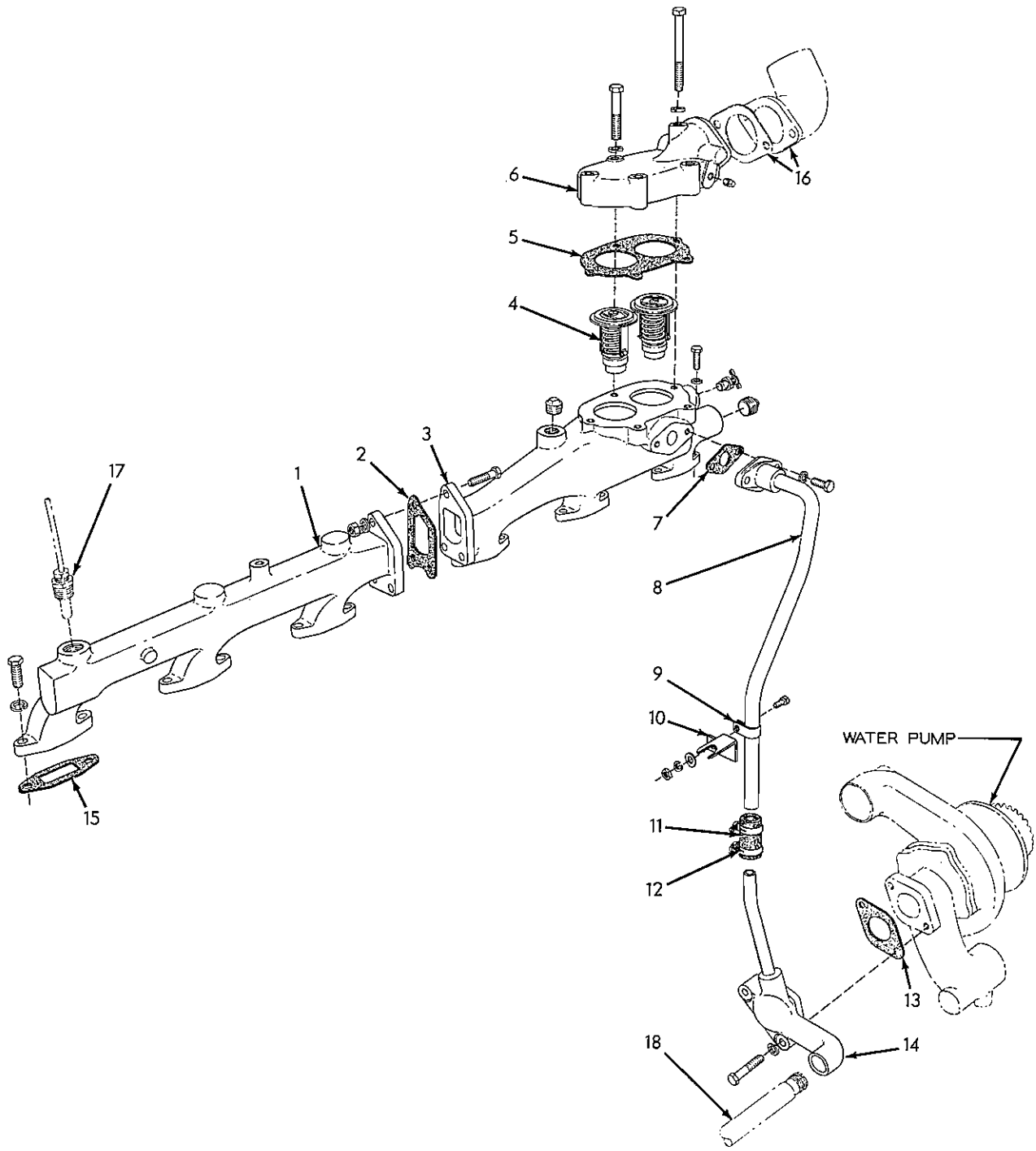
T-17465

WATER OUTLET MANIFOLD

USAGE: Tractors prior to serial No. 4001

* Used prior to engine serial No. 16-2743
** Effective with engine serial No. 16-2743

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	74371886	1	1	MANIFOLD, front (Used prior to engine #16-2753)
	74376525	-	1	MANIFOLD, front (Effective with engine #16-2753)
	70912726	1	1	PLUG, pipe, 3/4"NPT
	70912725	1	1	PLUG, pipe, 1/2"NPT
2	74371897	1	1	□ GASKET, manifold connecting
3	74371882	1	1	MANIFOLD, rear
	70914499	3	3	CAPSCREW, 3/8"NC x 1-5/8"
	70904206	3	3	LOCKWASHER, 3/8"
	70910324	3	3	NUT, 3/8"NC
4	74660355	6	6	□ GASKET, manifold to head
5	74001360	12	12	STUD, manifold
	70910123	12	12	NUT, 3/8"NF
	70904206	12	12	LOCKWASHER, 3/8"
6	74363280	2	2	THERMOSTAT (Used prior to engine #16-2753)
	74379916	-	2	THERMOSTAT (Effective with engine #16-2753)
7	74375678	2	2	SEAL ASSEMBLY, thermostat (1 seal, 1 spring, 1 retainer. Serviced only as a unit)(Used prior to engine #16-2753)
8	74376520	-	1	□ GASKET, thermostat cover
9	74374418	1	1	COVER ASSEMBLY, thermostat (Includes brass inserts)(Used prior to engine #16-2753)
	74376521	-	1	COVER ASSEMBLY, thermostat (Includes inserts)(Effective with engine #16-2753)
	70912415	1	1	COCK, T-handle, 1/4"NPT (For venting air)(Effective with engine #84205)
	70915601	4	4	CAPSCREW, 7/16"NC x 3-1/4"
	70915604	1	1	CAPSCREW, 7/16"NC x 4"
	70904207	5	5	LOCKWASHER, 7/16"
10	74386137	1	1	□ GASKET, upper water by-pass line
11	74372389	1	-	LINE, water by-pass
	70904281	2	-	CAPSCREW, 3/8"NC x 2-1/4"
	70904206	2	-	LOCKWASHER, 3/8"
12	70075870	1	-	HOSE, water by-pass tube (1-5/8"I.D. x 2-1/4")
13	70921913	2	-	CLAMP, hose, 1-13/16" to 2-3/4" diam.
14	74375718	-	1	LINE, water by-pass, upper section
	70903636	-	2	CAPSCREW, 3/8"NC x 2-3/4"
	70904206	-	2	LOCKWASHER, 3/8"
15	74369981	-	1	HOSE, water by-pass line
16	74253457	-	2	CLAMP, hose
17	74375716	-	1	LINE, water by-pass, lower section
	70903630	-	2	CAPSCREW, 3/8"NC x 1"
	70904206	-	2	LOCKWASHER, 3/8"
18	74030481	-	1	□ GASKET, lower water by-pass line
19	-----	-	-	ELBOW AND GASKET (See RADIATOR AND MOUNTING)



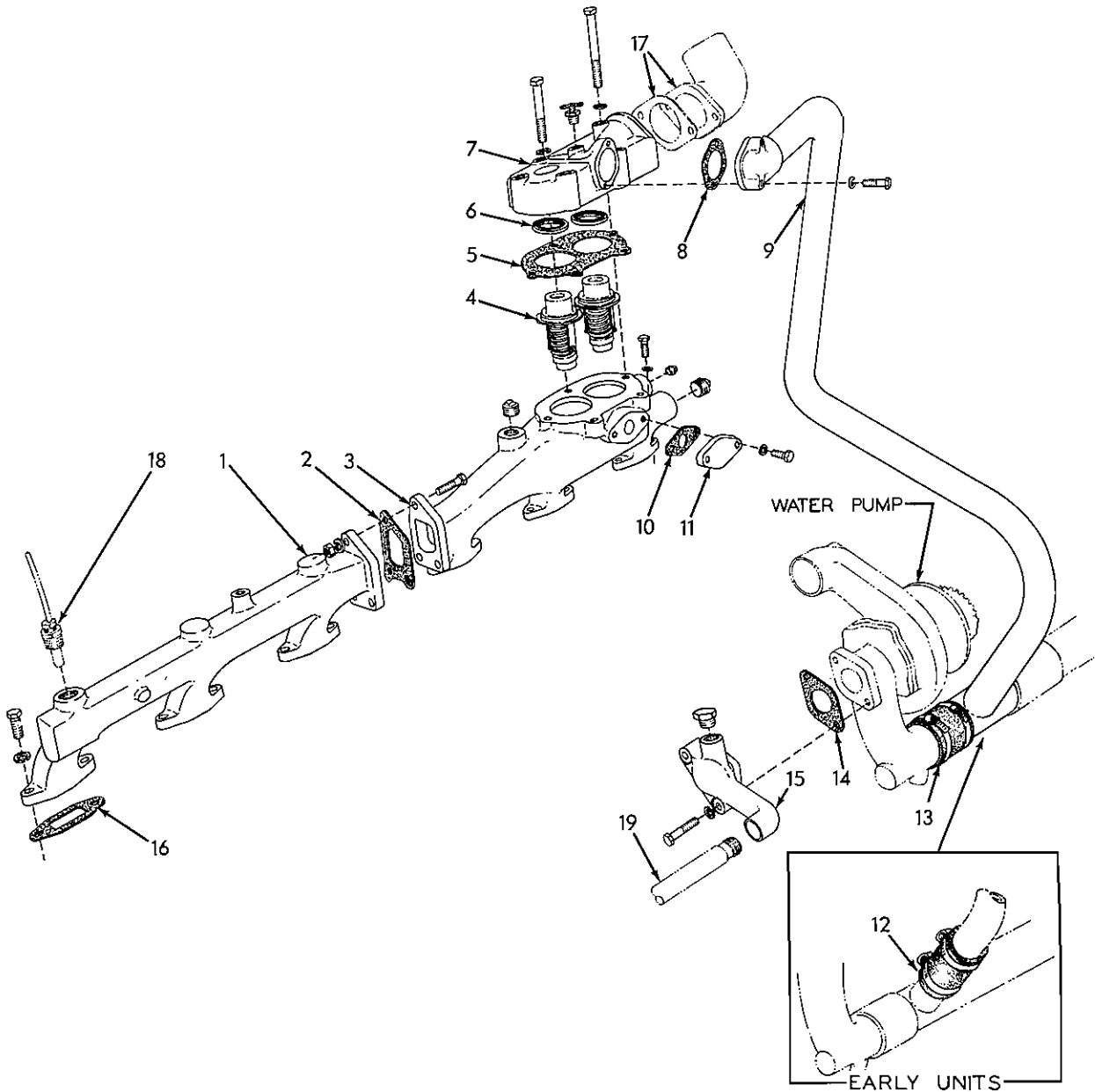
WATER OUTLET MANIFOLD (Second type)

T-19668

WATER OUTLET MANIFOLD

USAGE: Effective with tractor serial No. 4001 but later discontinued with engine serial No. 16-4408.

ITEM	PART NO.	QTY.	DESCRIPTION
1	74386827	1	MANIFOLD, rear
	70919224	6	CAPSCREW, 3/8"NC x 1-1/8"
	70914499	3	CAPSCREW, 3/8"NC x 1-5/8"
	70904206	9	LOCKWASHER, 3/8"
	70910324	3	NUT, 3/8"NC
2	74392279	1	□GASKET, manifold connecting
3	74388563	1	MANIFOLD, front
	70912415	1	COCK, T-handle, 1/4"NPT (For venting air)
	70912725	1	PLUG, pipe, 1/2"NPT
	70912726	1	PLUG, pipe, 3/4"NPT
	70919224	6	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	6	LOCKWASHER, 3/8"
4	74379916	1	THERMOSTAT (170°)
	74378269	1	THERMOSTAT (180°)
5	74376520	1	□GASKET, thermostat cover
6	74376118	1	COVER, thermostat
	70901651	1	PLUG, pipe, 1/8"NPT
	70916257	4	CAPSCREW, 7/16"NC x 2-1/2"
	70918740	1	CAPSCREW, 7/16"NC x 4"
	70904207	5	LOCKWASHER, 7/16"
7	74362458	1	□GASKET, upper water by-pass tube
8	74378522	1	TUBE, water by-pass, upper section
	70916269	2	CAPSCREW, 3/8"NC x 7/8"
	70904206	2	LOCKWASHER, 3/8"
9	74253668	1	CLAMP, upper water by-pass tube
	70903625	1	CAPSCREW, 1/4"NC x 3/4"
	70911114	1	WASHER, plain, SAE std., 1/4"
	70904204	1	LOCKWASHER, 1/4"
	70911327	1	NUT, 1/4"NC
10	74378378	1	BRACKET, clamp supporting
11	74378836	1	HOSE, water by-pass tube
12	70921911	2	CLAMP, hose
13	74376811	1	□GASKET, lower water by-pass tube
14	74378104	1	TUBE, water by-pass, lower section
	70910948	2	CAPSCREW, 3/8"NC x 2"
	70904206	2	LOCKWASHER, 3/8"
15	74376483	6	□GASKET, manifold to head
16	-----	-	ELBOW AND GASKET (See RADIATOR AND MOUNTING)
17	-----	-	GAUGE, temperature (See INSTRUMENTS)
18	-----	-	TUBE, water (See OIL COOLER)



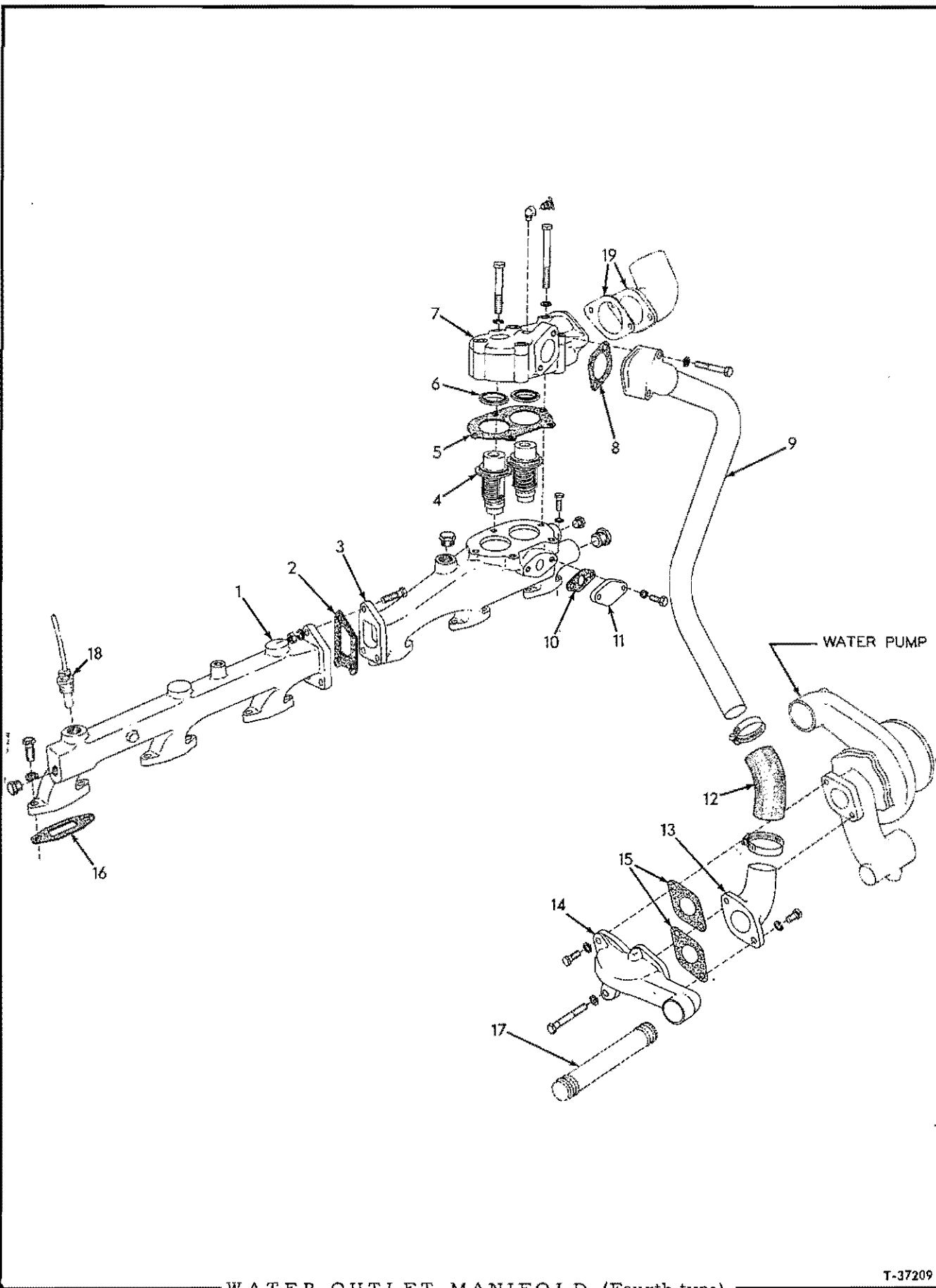
WATER OUTLET MANIFOLD (Third type)

T-33431

WATER OUTLET MANIFOLD

USAGE: Engines serial No. 16-4408 thru No. 16-05389

ITEM	PART NO.	QTY.	DESCRIPTION
1	74386827	1	MANIFOLD, rear
	70919224	6	CAPSCREW, 3/8"NC x 1-1/8"
	70914499	3	CAPSCREW, 3/8"NC x 1-5/8"
	70904206	9	LOCKWASHER, 3/8"
	70910324	3	NUT, 3/8"NC
2	74392279	1	□GASKET, manifold connecting
3	74388563	1	MANIFOLD, front
	70901652	1	PLUG, pipe, 1/4"NPT
	70912725	1	PLUG, pipe, 1/2"NPT
	70912726	1	PLUG, pipe, 3/4"NPT
	70919224	6	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	6	LOCKWASHER, 3/8"
4	4314562	2	THERMOSTAT
5	74376520	1	□GASKET, thermostat cover
6	74317554	2	SEAL, thermostat
7	74385938	1	COVER ASSEMBLY, thermostat (Includes inserts and item 6)
	70912415	1	COCK, T-handle, 1/4"NPT (For venting air)
	70915601	4	CAPSCREW, 7/16"NC x 3-1/4"
	70918740	1	CAPSCREW, 7/16"NC x 4"
	70904207	5	LOCKWASHER, 7/16"
8	74386137	1	□GASKET, water by-pass tube
9	74386055	1	TUBE, water by-pass
	70904281	2	CAPSCREW, 3/8"NC x 2-1/4"
	70904206	2	LOCKWASHER, 3/8"
10	74362458	1	□GASKET, manifold cover
11	74313015	1	COVER, front manifold
	70903629	2	CAPSCREW, 3/8"NC x 3/4"
	70904206	2	LOCKWASHER, 3/8"
12	70075870	1	HOSE, water by-pass tube (Used prior to engine #16-4525 including #16-4533)
	70921913	2	CLAMP, hose, 1-13/16" to 2-3/4" diam.
13	74014655	1	HOSE, water by-pass tube (Effective with engine #16-4525 excluding #16-4533)
	70922199	2	CLAMP, hose
14	74376811	1	□GASKET, water pump flange
15	74385949	1	FLANGE, water pump
	70920416	1	PLUG, pipe, hex-hd., 1/2"NPT
	70910948	2	CAPSCREW, 3/8"NC x 2"
	70904206	2	LOCKWASHER, 3/8"
16	74376483	6	□GASKET, manifold to head
17	-----	-	ELBOW AND GASKET (See RADIATOR AND MOUNTING)
18	-----	-	GAUGE, temperature (See INSTRUMENTS)
19	-----	-	TUBE, water (See OIL COOLER)



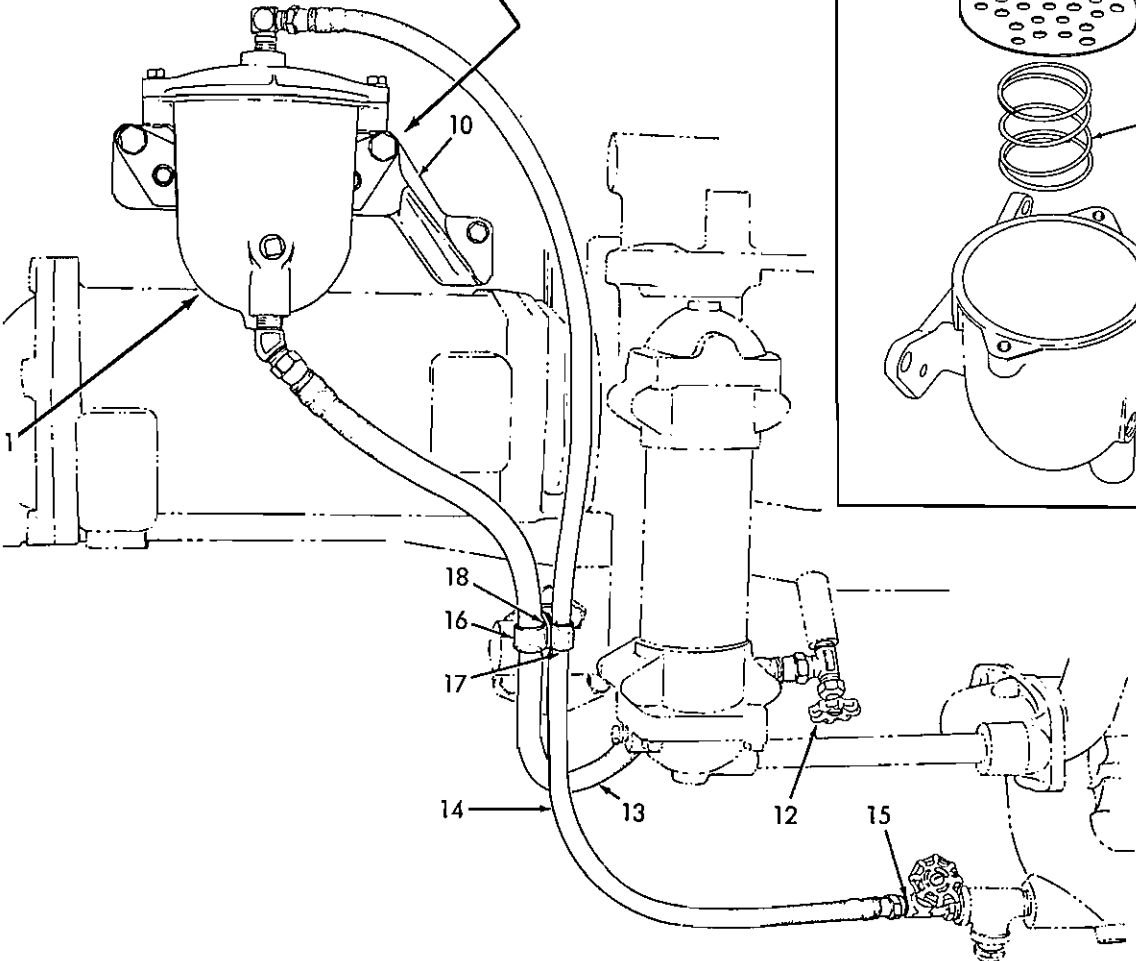
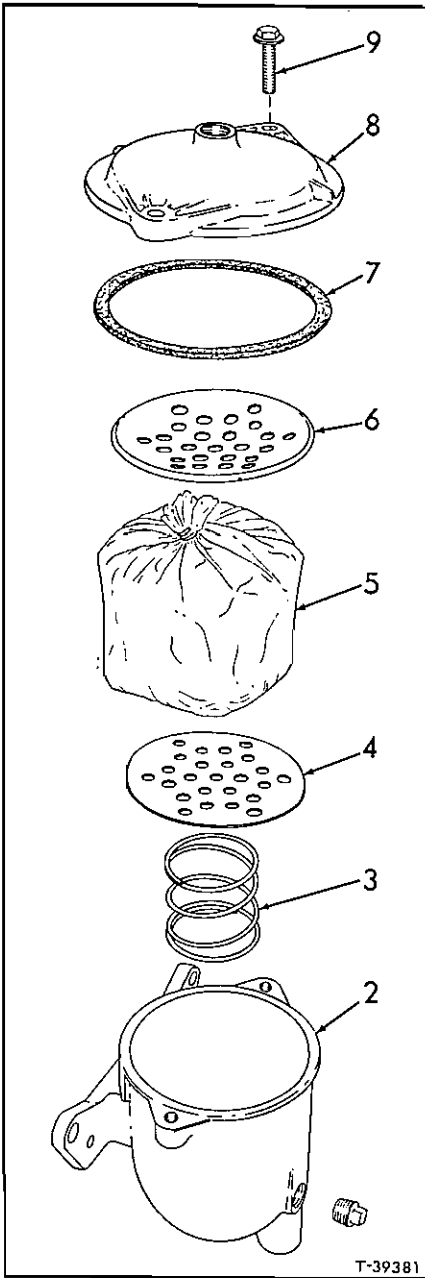
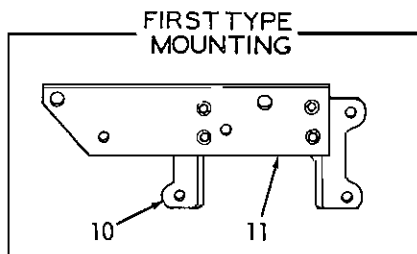
WATER OUTLET MANIFOLD (Fourth type)

T-37209

WATER OUTLET MANIFOLD

USAGE: Engines serial No. 16-05389 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	74386827	1	MANIFOLD, rear
	70920416	1	PLUG, pipe, hex-hd., 1/2"NPT
	70919224	6	CAPSCREW, 3/8"NC x 1-1/8"
	70919226	3	CAPSCREW, 3/8"NC x 1-5/8"
	70904206	9	LOCKWASHER, 3/8"
	70910324	3	NUT, 3/8"NC
2	74392279	1	□ GASKET, manifold connecting
3	74388563	1	MANIFOLD, front
	70901652	1	PLUG, pipe, 1/4"NPT
	70912725	1	PLUG, pipe, 1/2"NPT
	70912726	1	PLUG, pipe, 3/4"NPT
	70919224	6	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	6	LOCKWASHER, 3/8"
4	74338858	2	THERMOSTAT
5	74376520	1	□ GASKET, thermostat cover
6	74317554	2	SEAL, thermostat
7	74385938	1	COVER ASSEMBLY, thermostat (Includes inserts and item 6)
	70914588	1	ELBOW, street, brass, 90°, 1/4"NPT
	70912415	1	COCK, T-handle, 1/4"NPT (For venting air)
	70918395	4	CAPSCREW, 7/16"NC x 3-1/4"
	70918740	1	CAPSCREW, 7/16"NC x 4"
	70904207	5	LOCKWASHER, 7/16"
8	74386137	1	□ GASKET, water by-pass tube
9	74386891	1	TUBE, water by-pass
	70916274	2	CAPSCREW, 3/8"NC x 2-1/4"
	70904206	2	LOCKWASHER, 3/8"
10	74362458	1	□ GASKET, manifold cover
11	74313015	1	COVER, front manifold
	70915408	2	CAPSCREW, 3/8"NC x 3/4"
	70904206	2	LOCKWASHER, 3/8"
12	74386894	1	ELBOW, water by-pass tube (rubber)
	70922198	2	CLAMP, hose
13	74386881	1	ELBOW, water by-pass line
	70916271	2	CAPSCREW, 3/8"NC x 1"
	70904206	2	LOCKWASHER, 3/8"
14	74386779	1	FLANGE, water pump
	70919224	1	CAPSCREW, 3/8"NC x 1-1/8"
	70915990	1	CAPSCREW, 3/8"NC x 2-3/4"
	70904206	2	LOCKWASHER, 3/8"
15	74376811	2	□ GASKET, water pump flange
16	74376483	6	□ GASKET, manifold to head
17	-----	-	TUBE, water (See OIL COOLER)
18	-----	-	GAUGE, temperature (See INSTRUMENTS)
19	-----	-	ELBOW AND GASKET (See RADIATOR AND MOUNTING)



COOLANT FILTER

T-40510

COOLANT FILTER

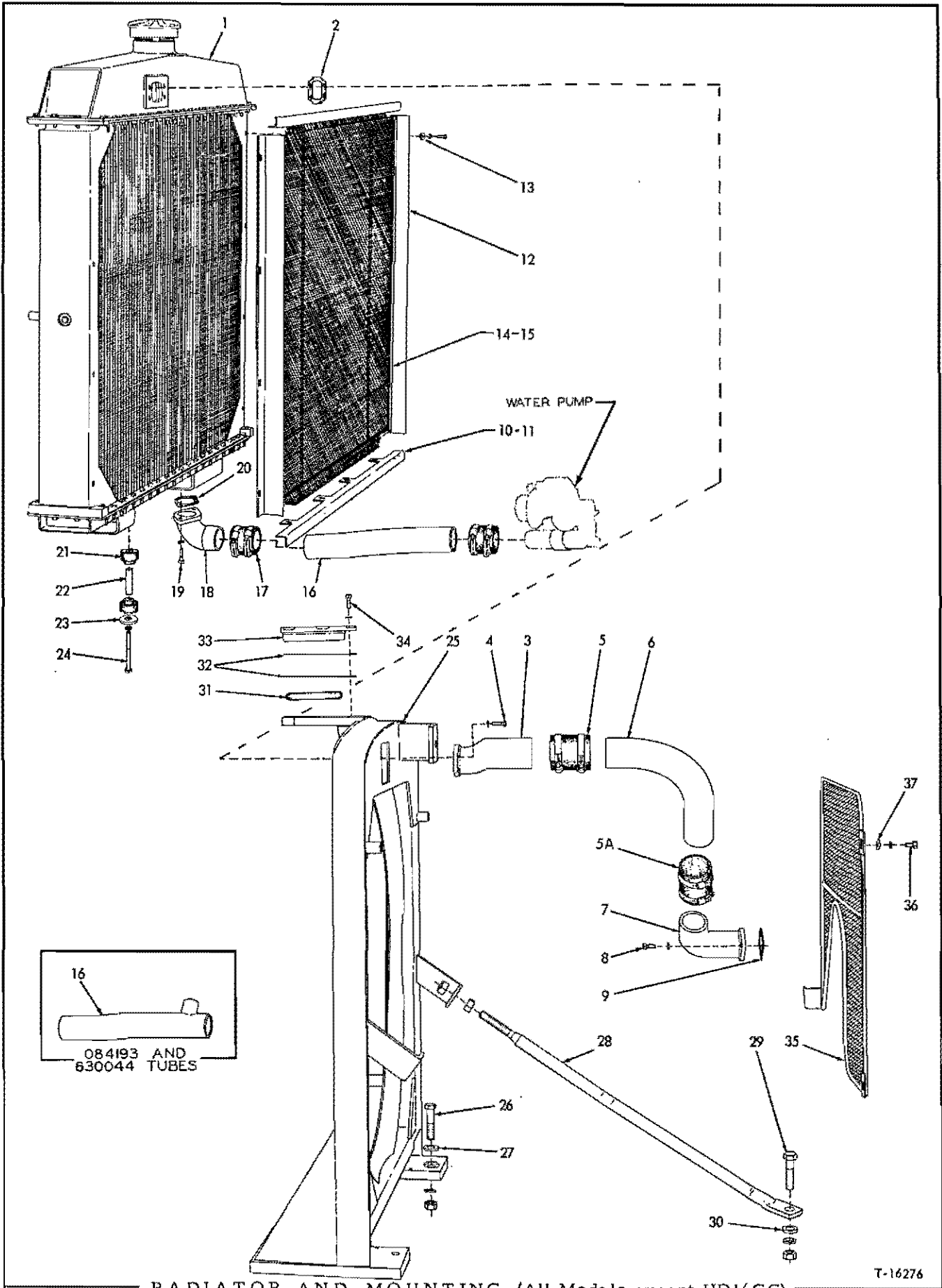
USAGE: Engines serial No. 16-4408 and up

* Engines prior to serial No. 16-4706

** Engines serial No. 16-4706 and up

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	74387474	1	1	FILTER ASSEMBLY, water (Consists of items 2 thru 9. Has element for use with permanent anti-freeze)
	70903638	2	-	CAPSCREW, 1/2"NC x 1-1/4"
	70913717	-	2	CAPSCREW, 1/2"NC x 1"
	70900818	2	2	WASHER, plain, U.S. std., 1/2"
	70904208	2	2	LOCKWASHER, 1/2"
	70903773	2	-	CAPSCREW, 5/16"NC x 1-1/4"
	70914392	-	2	CAPSCREW, 5/16"NC x 1"
	70901165	2	2	WASHER, plain, U.S. std., 5/16"
	70904205	2	2	LOCKWASHER, 5/16"
2	74055031	1	1	BODY, filter
	70901653	1	1	PLUG, pipe, 3/8"NPT
3	74054569	1	1	SPRING, filter element
4	74054568	1	1	PLATE, filter element, lower
5	74054567	1	1	ELEMENT, filter (Cannot be used with permanent anti-freeze)
	74055532	1	1	ELEMENT, filter (Can be used with permanent anti-freeze)
6	74055034	1	1	PLATE, filter element, upper
7	74054566	1	1	GASKET, filter cover
8	74055032	1	1	COVER, filter
9	74055033	2	2	BOLT ASSEMBLY, filter cover (Includes washer)
10	74377951	1	-	BRACKET, filter mounting
	74386198	-	1	BRACKET, filter mounting
	70919224	4	3	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	4	3	LOCKWASHER, 3/8"
11	74385933	1	-	PLATE, filter adapting
	70919106	4	-	CAPSCREW, socket-hd. 1/4"NF x 3/4"
12	74255171	1	1	VALVE, water shut-off (1/2" tube, 3/8"NPT male)
13	74386199	1	1	HOSE ASSEMBLY, water line to filter
	70920690	1	1	ELBOW, flare type, 45°, 1/2" tube, 3/8"NPT male
14	74385982	1	-	HOSE ASSEMBLY, filter to water pump
	70917750	1	-	ELBOW, 45°, flare type, 90°, 3/8" tube, 3/8" NPT male
	74386200	-	1	HOSE ASSEMBLY, filter to water pump
	70919136	-	1	ELBOW, 37°, flare type, 90°, 3/8" tube, 3/8"NPT male

(Continued)



RADIATOR AND MOUNTING (All Models except HD16GC)

T-16276

COOLANT FILTER (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
15	-----	1	-	VALVE, water shut-off (3/8" tube, 1/4"NPT male)(Order one each VALVE 74255170, HOSE ASSY. 74386200, BUSHING 70901835 and ELBOW 70919136)
	70901839	1	-	BUSHING, pipe reducing, 1/2"NPT to 1/4"NPT
	74255170	-	1	VALVE, water shut-off (3/8" tube, 3/8"NPT male)
	70901835	-	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT
16	74254580	1	1	CLAMP, water inlet hose
17	74255010	1	1	CLAMP, water outlet hose
	70916268	1	1	CAPSCREW, 3/8"NC x 5/8"
	70904206	1	1	LOCKWASHER, 3/8"
	70910324	1	1	NUT, 3/8"NC
18	74385093	-	1	BRACKET, clamp supporting (Used prior to engine #16-4911)
	74387807	-	1	BRACKET, clamp supporting (Effective with engine #16-4911)

RADIATOR AND MOUNTING

USAGE: All models except HD16GC

* Tractors prior to serial No. 4001
 ** Tractors serial No. 4001 and up

1	70083542	1	1	RADIATOR ASSEMBLY (Std. on units w/o torque converter)	} See Page 231 For Parts
	70632454	1	1	RADIATOR ASSEMBLY (Has armored tubes at rear of core) (Special equipment on units without torque converter)	
	70083435	1	1	RADIATOR ASSEMBLY (For units with torque converter)	
2	70081614	1	1	GASKET, radiator inlet	
3	70082608	1	1	INLET, radiator	
4	70035439	4	4	CAPSCREW, 3/8"NC x 1"	
	70904206	4	4	LOCKWASHER, 3/8"	
5	70067884	1	1	HOSE, inlet tube to radiator (2-3/4" I. D. x 3-1/2" long)	
	70921915	2	2	CLAMP, hose, 2-13/16" to 3-3/4" diam.	
5A	70067884	1	-	HOSE, engine to inlet tube (2-3/4" I. D. x 3-1/2" long)	
	70055604	-	1	HOSE, engine to inlet tube (2-3/4" I. D. x 4-1/2" long)	
	70921915	2	2	CLAMP, hose, 2-13/16" to 3-3/4" diam.	
6	70083540	1	1	TUBE, radiator inlet	
7	70083380	1	1	ELBOW, engine water outlet	
8	70043886	2	2	CAPSCREW, 7/16"NC x 1"	
	70904207	2	2	LOCKWASHER, 7/16"	
9	74310257	1	1	GASKET, water outlet elbow	
10	70083539	2	2	BAFFLE, air, upper and lower	
11	70092665	8	8	WASHER, plain	

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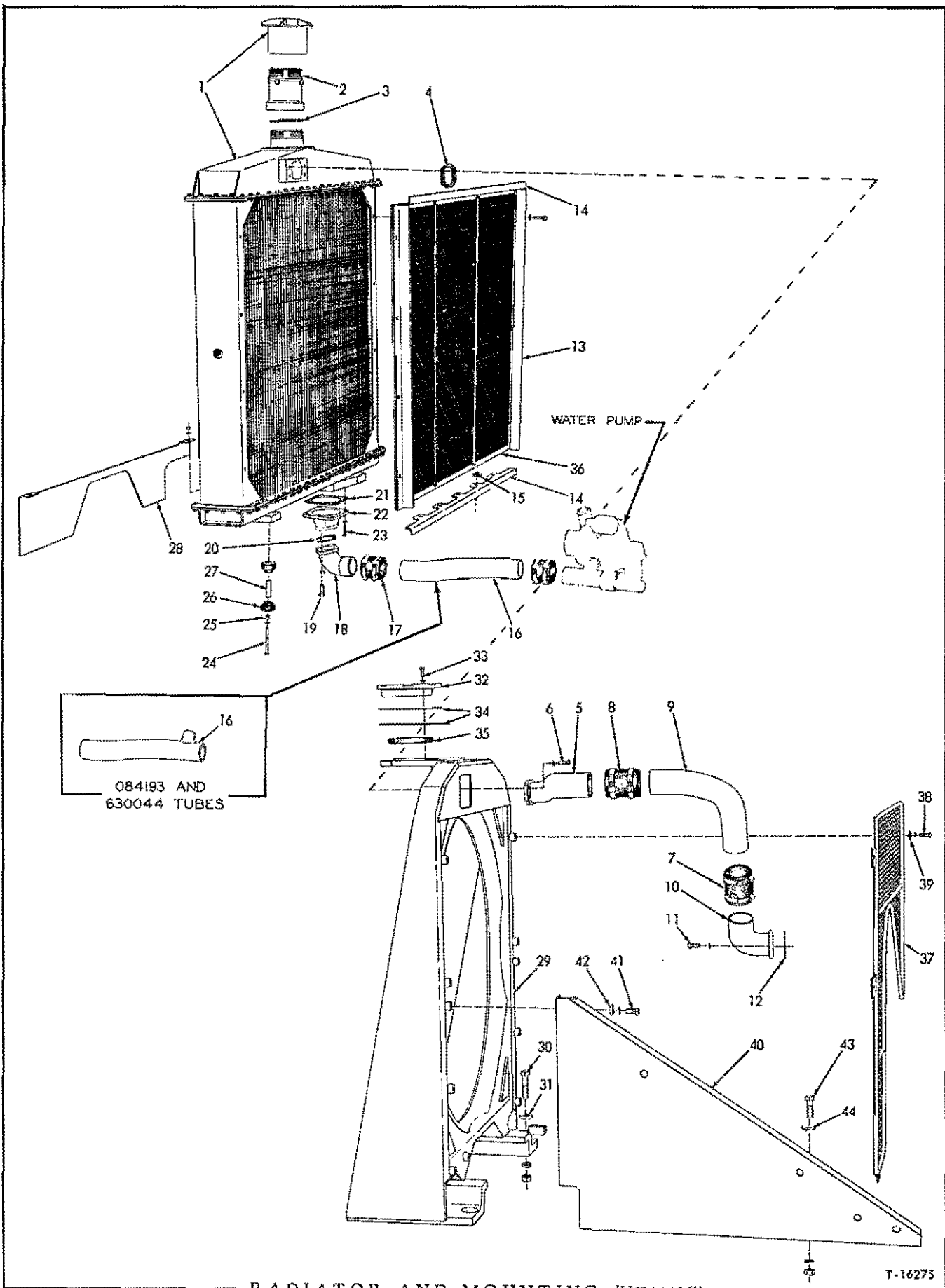
RADIATOR AND MOUNTING (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
12	70083538	2	2	BAFFLE, air, side
	70911168	8	8	CAPSCREW, 5/16"NF x 7/8"
	70904205	8	8	LOCKWASHER, 5/16"
13	70092665	8	8	WASHER, plain
14	70083665	1	1	SCREEN, radiator(Special equipment. Used at front of radiator with suction fan and at rear of radiator with pusher fan. Cannot be used with armored-core radiator)
15	70092665	10	10	WASHER, plain
16	70084193	1	-	TUBE, engine water inlet (14-1/2" long)(Used prior to engine #16-2753)
	70093924	1	1	TUBE, engine water inlet (17-1/2"long)(Used on engines #16-2753 thru #16-4407)
	70630044	-	1	TUBE, engine water inlet (17-1/2" long)(Used on engines #16-4408 thru #16-4524 including #16-4533)
	70631009	-	1	TUBE, engine water inlet (13-1/4" long)(Used on engines #16-4525 thru #16-05388 excluding #16-4533)
	70633626	-	1	TUBE, engine water inlet (16-1/2" long)(Effective with engine #16-05389)
17	70073539	2	2	HOSE, radiator, lower (2-1/2" I.D. x 2-1/2")
	70921914	4	4	CLAMP, hose, 2-5/16" to 3-1/4" diam.
18	70081359	1	1	ELBOW, radiator outlet (Used prior to engine #16-05389)
	70633509	-	1	ELBOW, radiator outlet (Effective with engine #16-05389)
19	70041250	2	2	CAPSCREW, 7/16"NC x 1-1/4"
	70904207	2	2	LOCKWASHER, 7/16"
20	70052021	1	1	GASKET, radiator outlet elbow
21	70061671	12	12	SNUBBER, vibration, radiator mounting
22	70082014	6	6	TUBE, spacing, vibration snubber
23	70061656	6	6	WASHER, radiator mounting
24	70082013	6	6	CAPSCREW, radiator mounting
	70904206	6	6	LOCKWASHER, 3/8"
25	70090747	1	1	SUPPORT, radiator
26	70012526	4	4	CAPSCREW, 3/4"NF x 3-1/4"
	70904369	4	4	LOCKWASHER, 3/4"
	70911045	4	4	NUT, 3/4"NF
27	70061689	4	4	WASHER, radiator support capscrew

(Continued)

RADIATOR AND MOUNTING (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
28	70093583	2	2	ROD, bracing, radiator support (Used prior to tractor #5393)	
	70630363	-	1	BRACE, radiator support, left side	} Effective with tractor #5393
	70630364	-	1	BRACE, radiator support, right side	
	70615887	1	1	ROD, bracing, radiator support, right side (Used only with front-mounted Cable Control Unit)	
29	70911046	4	4	NUT, 7/8"NF	
	70070285	2	2	CAPSCREW, 3/4"NF x 3"	
	70904369	2	2	LOCKWASHER, 3/4"	
	70911045	2	2	NUT, 3/4"NF	
30	70060689	-	2	BOSS, spacing, radiator brace (Effective with tractor #5393)	
31	70095575	1	1	RING, cushion, radiator neck	
32	70076684	1	1	SHIM, radiator neck supporting ring (1/16" thick. Use as required)	
	70076685	2	2	SHIM, radiator neck supporting ring (1/32" thick. Use as required)	
33	70099137	1	1	RING, supporting, radiator neck	
34	70036034	6	6	CAPSCREW, 3/8"NF x 1"	
	70904206	6	6	LOCKWASHER, 3/8"	
35	70083490	1	1	GUARD, fan	
36	70036034	4	4	CAPSCREW, 3/8"NF x 1"	
	70904206	4	4	LOCKWASHER, 3/8"	
37	70044973	4	4	WASHER, plain	



RADIATOR AND MOUNTING (HD16GC)

T-16275

RADIATOR AND MOUNTING

USAGE: Model HD16GC only

* Tractors prior to serial No. 4001
 ** Tractors serial No. 4001 and up

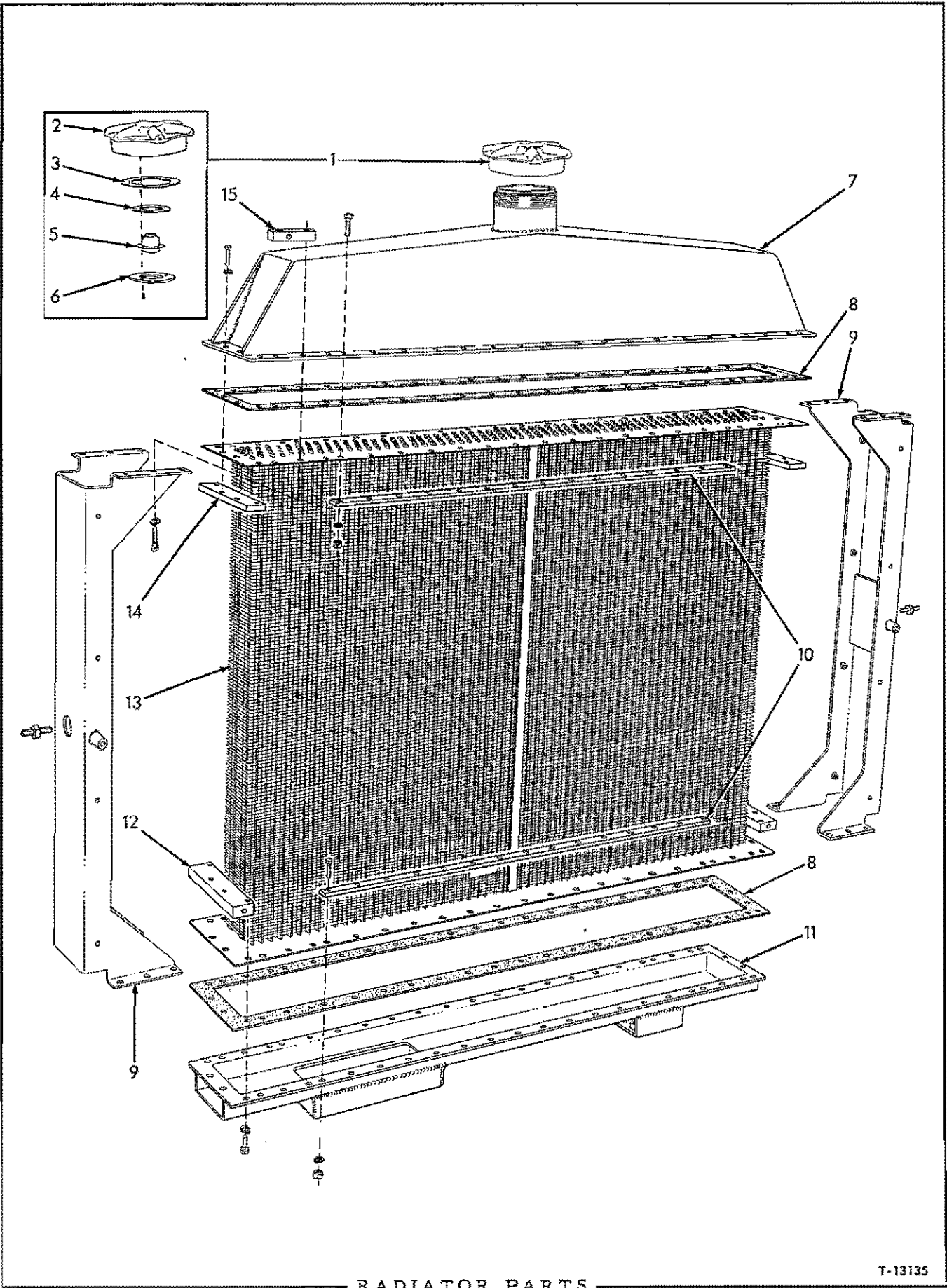
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70095219	1	1	RADIATOR ASSEMBLY (See page 231 for parts)
2	70089483	1	1	ADAPTER, filler cap
3	70089492	1	1	GASKET, filler cap adapter
4	70081614	1	1	GASKET, radiator inlet
5	70082608	1	1	INLET, radiator
6	70035439	4	4	CAPSCREW, 3/8"NC x 1"
	70904206	4	4	LOCKWASHER, 3/8"
7	70067884	1	-	HOSE, engine to inlet tube (2-3/4" I.D. x 3-1/2")
	70055604	-	1	HOSE, engine to inlet tube (2-3/4" I.D. x 4-1/2")
	70921915	2	2	CLAMP, hose, 2-13/16" to 3-3/4" diam.
8	70067884	1	1	HOSE, inlet tube to radiator (2-3/4" I.D. x 3-1/2")
	70921915	2	2	CLAMP, hose, 2-13/16" to 3-3/4" diam.
9	70090503	1	1	TUBE, radiator inlet
10	70081337	1	1	ELBOW, engine water outlet
11	70043886	2	2	CAPSCREW, 7/16"NC x 1"
	70904207	2	2	LOCKWASHER, 7/16"
12	74310257	1	1	GASKET, water outlet elbow
13	70087869	2	2	BAFFLE, air, side
	70911168	8	8	CAPSCREW, 5/16"NF x 7/8"
	70904205	8	8	LOCKWASHER, 5/16"
14	70087870	2	2	BAFFLE, air, upper and lower
15	70092665	10	10	WASHER, plain
16	70084193	1	-	TUBE, engine water inlet (14-1/2" long)(Used prior to engine #16-2753)
	70093924	1	1	TUBE, engine water inlet (17-1/2" long)(Used on engines #16-2753 thru #16-4407)
	70630044	-	1	TUBE, engine water inlet (17-1/2" long)(Used on engines #16-4408 thru #16-4524 including #16-4533)
	70631009	-	1	TUBE, engine water inlet (13-1/4" long)(Effective with engine #16-4525 excluding #16-4533)
17	70073539	2	2	HOSE, radiator, lower (2-1/2" I.D. x 2-1/2")
	70921914	4	4	CLAMP, hose, 2-5/16" to 3-1/4" diam.

(Continued)

RADIATOR AND MOUNTING (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
18	70081359	1	1	ELBOW, radiator outlet
19	70041250	2	2	CAPSCREW, 7/16"NC x 1-1/4"
	70904207	2	2	LOCKWASHER, 7/16"
20	70052021	1	1	GASKET, radiator outlet elbow
21	70081627	1	1	GASKET, outlet elbow adapter
22	70087728	1	1	ADAPTER, radiator outlet elbow
23	70013058	4	4	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	4	4	LOCKWASHER, 3/8"
24	70056320	6	6	CAPSCREW, radiator mounting
	70904206	6	6	LOCKWASHER, 3/8"
25	70061656	6	6	WASHER, radiator mounting
26	70061671	12	12	SNUBBER, vibration, radiator mounting
27	70061655	6	6	TUBE, spacing, vibration snubber
28	70089914	1	1	BAFFLE, air
	70904205	2	2	LOCKWASHER, 5/16"
	70911025	2	2	NUT, 5/16"NC
29	70087774	1	1	SUPPORT, radiator
30	70070285	4	4	CAPSCREW, 3/4"NF x 3"
	70904369	4	4	LOCKWASHER, 3/4"
	70911045	4	4	NUT, 3/4"NF
31	70061689	4	4	WASHER, radiator support capscrew
32	70099137	1	1	RING, radiator neck supporting
33	70036034	6	6	CAPSCREW, 3/8"NF x 1"
	70904206	6	6	LOCKWASHER, 3/8"
34	70076684	1	1	SHIM, radiator neck supporting ring (1/16" thick. Use as required)
	70076685	2	2	SHIM, radiator neck supporting ring (1/32" thick. Use as required)
35	70095575	1	1	RING, cushion, radiator neck
36	70087788	1	1	SCREEN, radiator
37	70087719	1	1	GUARD, fan
38	70036034	5	5	CAPSCREW, 3/8"NF x 1"
	70904206	5	5	LOCKWASHER, 3/8"
39	70044973	5	5	WASHER, plain
40	70087805	1	1	FENDER, radiator support bracing, left
	70087806	1	1	FENDER, radiator support bracing, right
41	70614478	6	6	CAPSCREW, 1/2"NF x 1-3/8"
	70904208	6	6	LOCKWASHER, 1/2"
42	70064531	6	6	WASHER, plain
43	70023618	5	5	CAPSCREW, 5/8"NF x 2-1/2"
	70023465	1	1	CAPSCREW, 5/8"NF x 1-3/4" (left fender only)
44	70064810	6	6	WASHER, plain
	70904209	6	6	LOCKWASHER, 5/8"
	70911044	5	5	NUT, 5/8"NF

MEMO



RADIATOR PARTS

T-13135

RADIATOR PARTS

* 70083542 and 70632454 RADIATOR ASSY. (HD16A., D.)(See page 223)
 ** 70083435 RADIATOR ASSY. (HD16AC., D., FC.)(See page 227)
 *** 70095219 RADIATOR ASSY. (HD16 GC.)(See page 227)

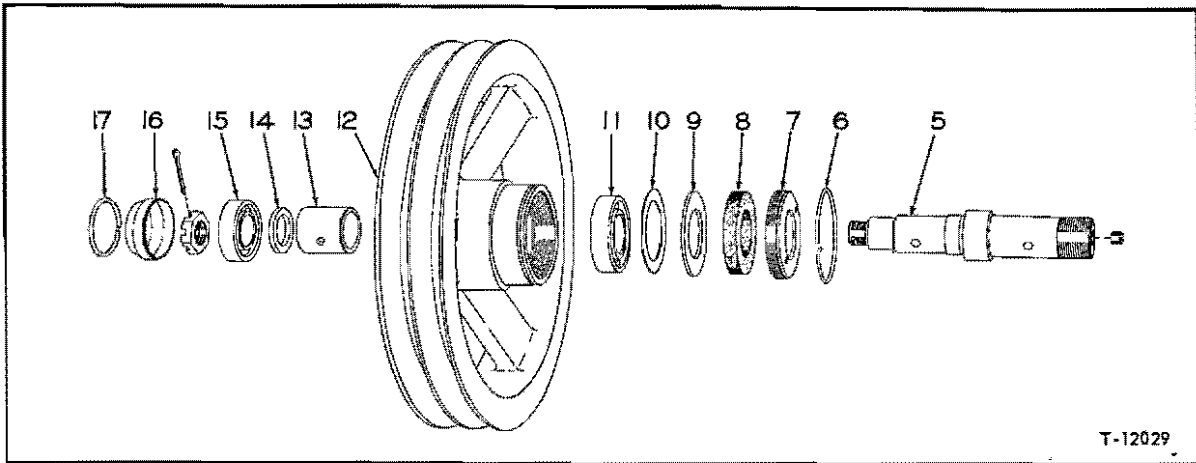
ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70058730	1	1	1	CAP ASSEMBLY, water cooling radiator (Consists of items 2 thru 6)
2	-----	1	1	1	CAP, radiator (Furnished only as part of item 1)
3	70059242	1	1	1	GASKET, radiator cap
4	70059244	1	1	1	GASKET, pressure valve
5	70059245	1	1	1	VALVE, pressure
6	70059243	1	1	1	RING, pressure valve retaining
	70914782	3	3	3	SCREW, machine, rd-hd., brass, #5-40 x 3/8"
7	70085065	1	1	-	TANK, top
	70089720	-	-	1	TANK, top
	70903773	38	38	48	CAPSCREW, 5/16"NC x 1-1/4"
	70903772	8	8	-	CAPSCREW, 5/16"NC x 1"
	70904205	46	46	48	LOCKWASHER, 5/16"
	70911025	38	38	38	NUT, 5/16"NC
8	70079763	2	2	-	GASKET, core
	70091869	-	-	1	GASKET SET, core (Consists of 5 cork strips. Enough for both ends of core)
9	70085616	2	-	-	SIDE
	70085636	-	2	-	SIDE
	70089722	-	-	2	SIDE
	70915888	2	2	2	SETSCREW, slotted-hd., cup-pt., 3/8"NC x 1-3/4"
	70903584	2	2	2	NUT, jam, 3/8"NC
10	70074679	4	4	4	CLAMP, core flange, center
11	70085015	1	1	-	TANK, bottom
	70089721	-	-	1	TANK, bottom
	70903773	42	42	48	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	42	42	48	LOCKWASHER, 5/16"
	70911025	42	42	38	NUT, 5/16"NC
12	70079678	2	2	-	CLAMP, core bottom flange, end
	70903772	8	8	-	CAPSCREW, 5/16"NC x 1"
	70904205	8	8	-	LOCKWASHER, 5/16"

(Continued)

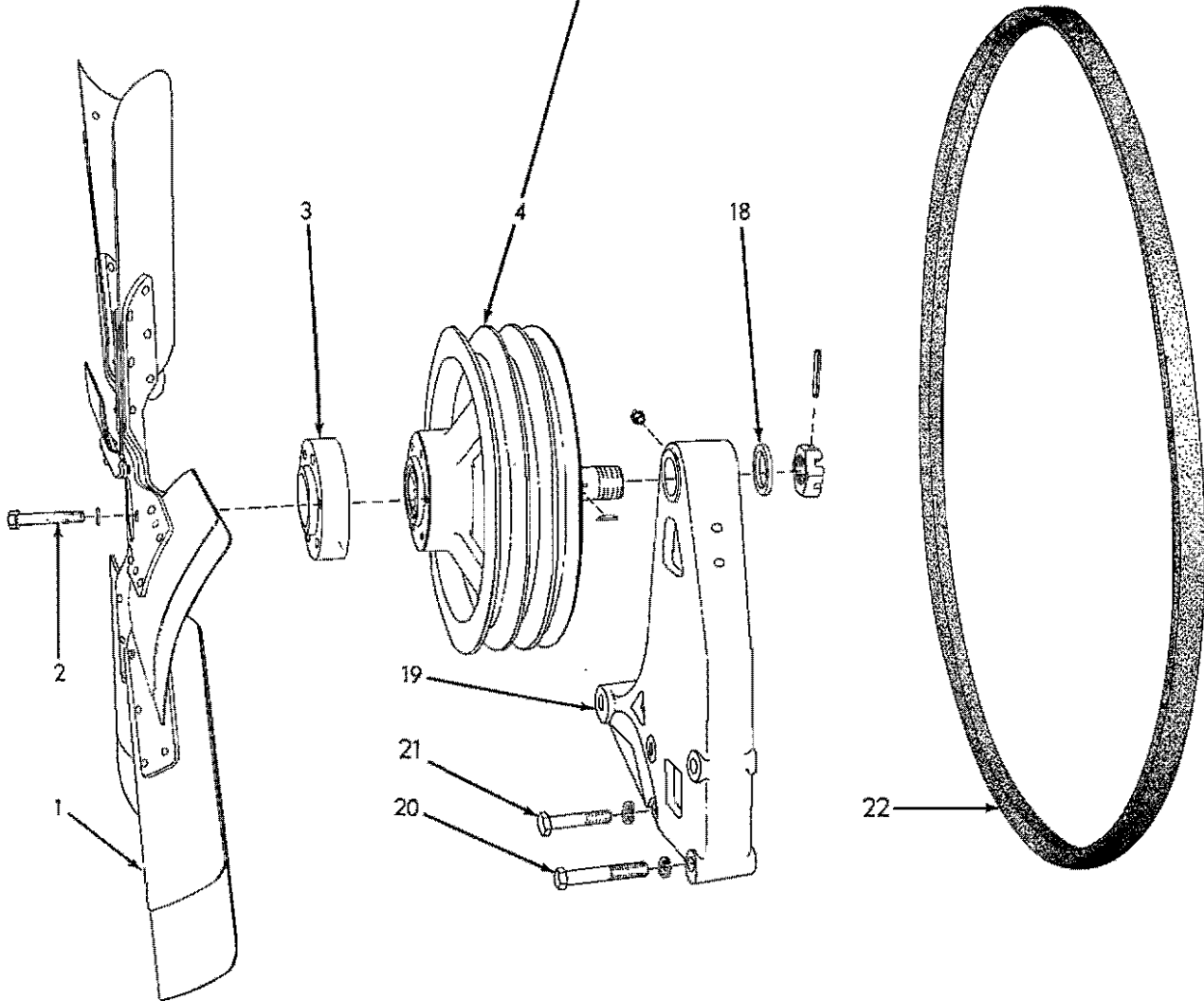
RADIATOR PARTS (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
13	70085086	1	-	-	CORE (Standard)
	70632478	1	-	-	CORE (Special. Has armored tubes at rear)
	70085050	-	1	-	CORE (Standard)
	70094488	-	1	-	CORE (Heavy-duty for extra cooling. Includes set of gaskets)
	70095641	-	-	1	CORE
14	70079489	2	2	-	CLAMP, core top flange, end
15	70079762	2	2	-	BLOCK, tapped
	70903773	4	4	-	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	4	4	-	LOCKWASHER, 5/16"

MEMO



T-12029



T-16261

FAN

*All Models except HD16GC

**Model HD16GC

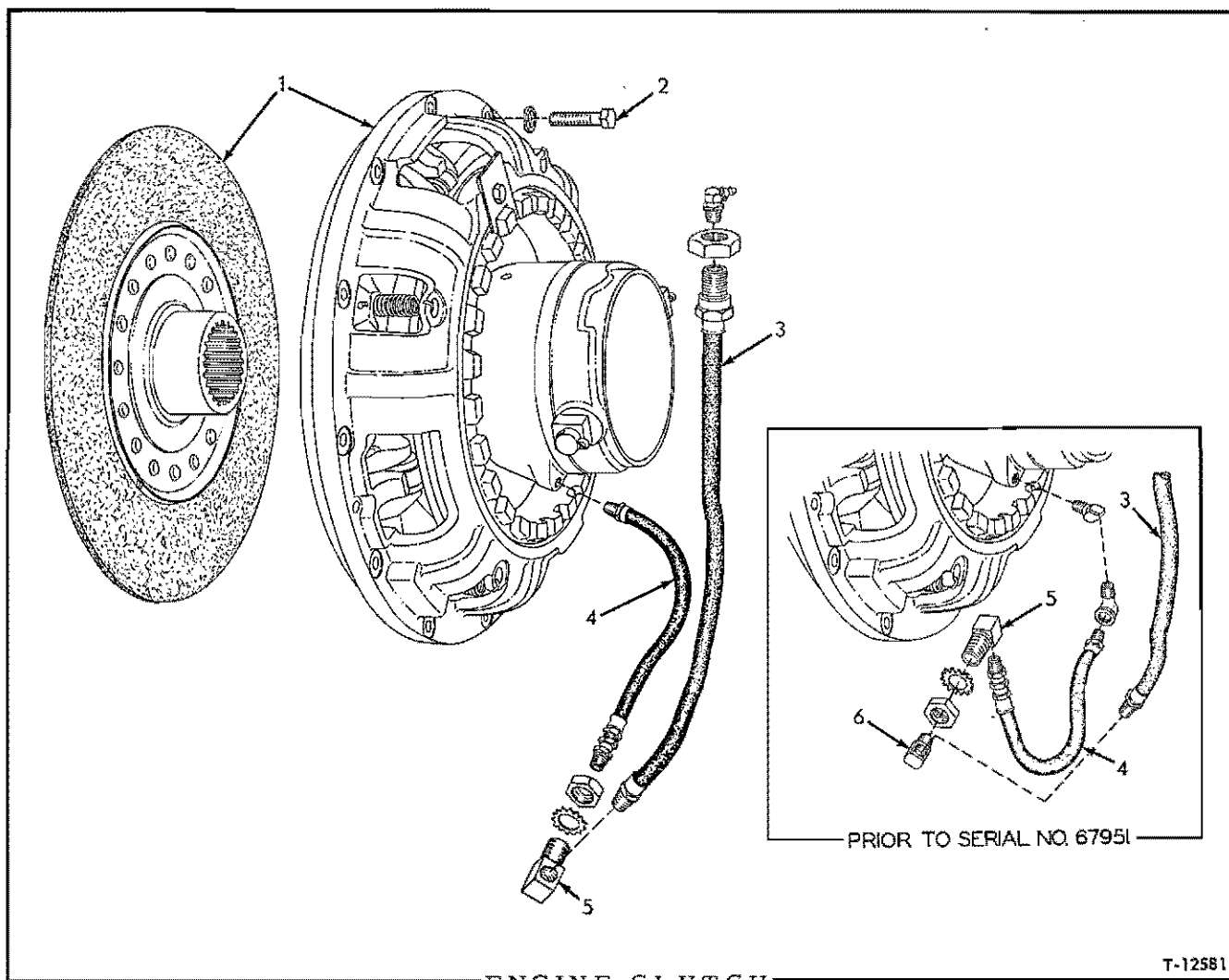
ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
<u>NOTE:</u> See RADIATOR AND MOUNTING for listing of Fan Guard			
1	70083658	1 -	FAN (Suction type. Standard equipment on Models HD16A and D. Optional on other models)
	70083524	1 1	FAN (Push type. 3-1/4" deep. Standard equipment on Models HD16AC, DC, GC)
	70084222	1 -	FAN (Push type. 2-1/2" deep. Optional on Models HD16A and D)
2	70058793	6 -	CAPSCREW, 3/8"NC x 2-1/4" (For Fan 70083658)
	70013058	6 6	CAPSCREW, 3/8"NC x 1-1/4" (For Fan 70083524)
	70053616	6 -	CAPSCREW, 3/8"NC x 1-3/4" (For Fan 70084222)
	70904206	1 -	LOCKWASHER, 3/8"
3	70083676	1 -	SPACER, fan (1" thick)(For use with suction fan only)
	70083708	1 -	SPACER, fan (9/16" thick)(For use with pusher fan 70084222 only)
4	70088564	1 1	PULLEY ASSY., fan (Consists of items 5 thru 17)
	70913798	1 1	NUT, jam, slotted, 1-1/4"NF
	70915692	1 1	PIN, roll, 1/4" x 1-7/8"
	70905122	1 1	KEY, #7 woodruff, 1/8" x 3/4"
5	70082829	1 1	SPINDLE (Original equipment)
	70910230	1 1	PLUG, pipe, slotted-hd., 1/8"NPT
	70915943	1 1	NUT, jam, slotted, 3/4"NF
	70900808	1 1	PIN, cotter, 1/8" x 1-1/2"
	70662038	1 1	SPINDLE, (Service replacement)
	70919108	1 1	NUT, self-locking, 7/8"NF
6	74371707	1 1	RING, snap, fan pulley
7	74640973	1 1	RETAINER, spindle sealing washer
8	70052106	1 1	WASHER, spindle sealing
9	74640975	1 1	WASHER, retaining, rear bearing
10	74640976	1 1	GASKET, bearing retaining washer (Not used in service replacement unit)
11	74253863	1 1	BEARING, ball, rear (unshielded)(Original equipment)
	70075203	1 1	BEARING, ball, rear (shielded)(Service replacement)
12	70088549	1 1	PULLEY
13	70051715	1 1	SLEEVE, spacing, spindle bearings
14	74640978	1 1	WASHER, spacing, front bearing
15	74253862	1 1	BEARING, ball, front
16	70088561	1 1	CAP, pulley
17	74042081	1 1	RING, snap, cap retaining (Effective with tractor #1032)
18	70067962	1 1	WASHER, plain

(Continued)

FAN

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
19	70633625	1	-	BRACKET, fan mounting (For tractors prior to #5719 also order Capscrew 70035712)
	70087707	-	1	BRACKET, fan mounting
	70915274	1	1	FITTING, lubricating, 45°, 1/8"NPT
20	70041917	4	4	CAPSCREW, 1/2"NC x 3-1/4" (1 Less used on Model HD16A, AC, D, DC, FC, effective with tractor #5719)
21	70035712	1	-	CAPSCREW, 1/2"NC x 2-1/4" (Effective with tractor #5719)
	70904208	4	4	LOCKWASHER, 1/2"
22	70086979	2	-	BELT, fan (7/8" wide, 85" long)(Furnished in matched pairs)
	70087347	-	2	BELT, fan (7/8" wide, 88" long)(Furnished in matched pairs)





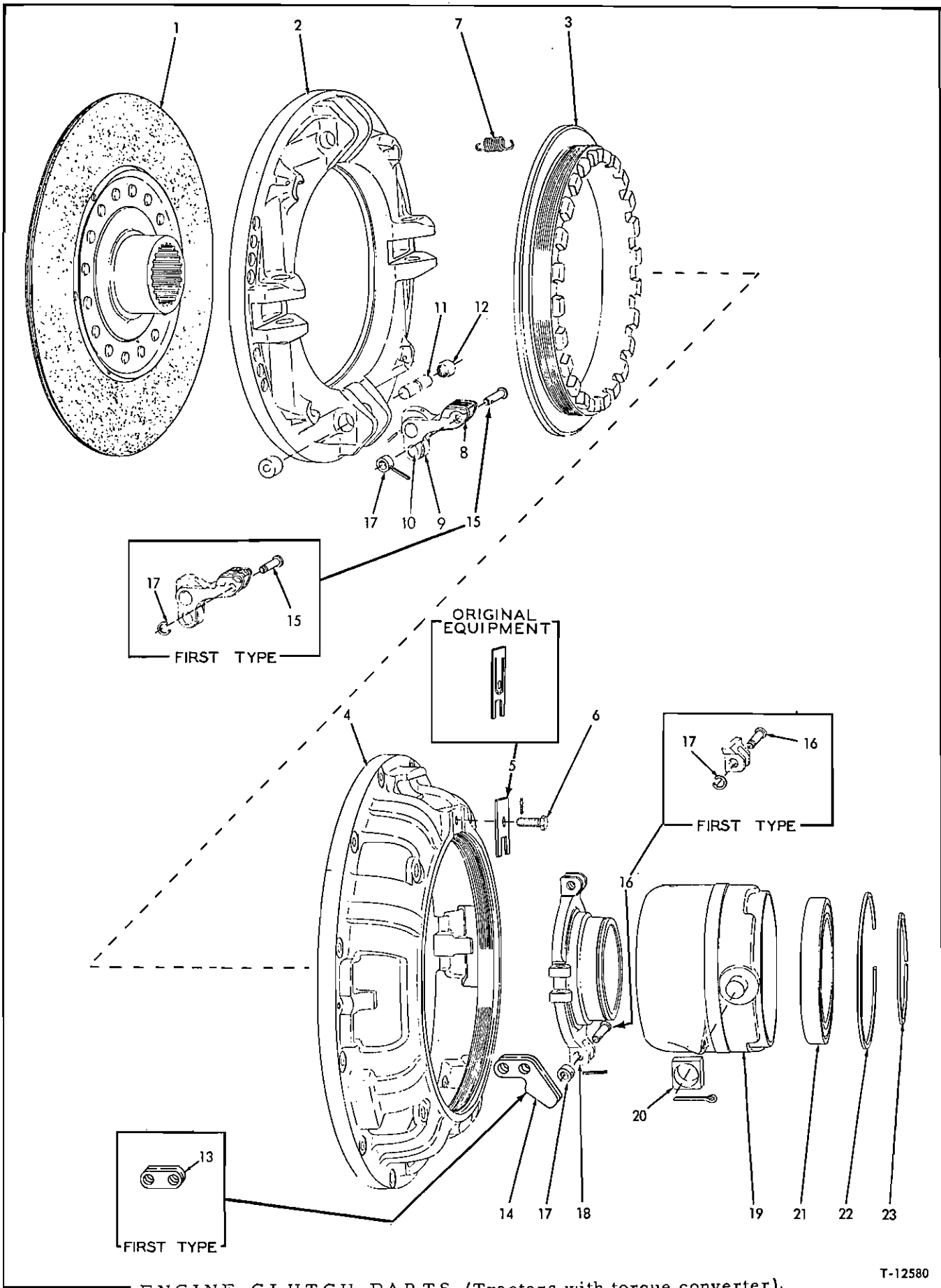
USAGE: Tractors with torque converter

ITEM	PART NO.	QTY.	DESCRIPTION
1	70091463	1	CLUTCH ASSEMBLY, engine (See page 239 for parts)
2	70070960	12	CAPSCREW, 3/8"NC x 1-1/2"
	70904206	12	LOCKWASHER, 3/8"
3	70074065	1	HOSE, lubricating, upper (25" long)(Not used on Model HD16GC after tractor #5154)
	70076322	1	HOSE, lubricating, upper (31" long)(Effective with tractor #5154 on Model HD16GC only)
	70911036	1	NUT, jam, 5/8"NC
	70915275	1	FITTING, lubricating, 65°, 1/8"NPT (Not for models HD16FC, GC)
	70914465	1	FITTING, lubricating, straight, 1/8"NPT (Models HD16FC, GC only)

(Continued)

ENGINE CLUTCH (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
4	70621813	1	HOSE, lubricating, shifting sleeve bearing
	70915399	1	ELBOW, street, brass, 90°, 3/8"NPT
	70914464	1	ELBOW, lubricating fitting, 45°, 1/8"NPT
			} Used prior to torque converter #67951
5	70090652	1	FITTING, elbow, lubricating hose
	70910543	1	LOCKWASHER, external teeth, 5/8"
	70911049	1	NUT, jam, 5/8"NF
6	70605794	1	ELBOW, lubricating hose (90°, 1/8"NPT male and female ends) (Used prior to torque converter #67951)



ENGINE CLUTCH PARTS (Tractors with torque converter)

T-12580

ENGINE CLUTCH PARTS

USAGE: Tractors with torque converter. See page 236

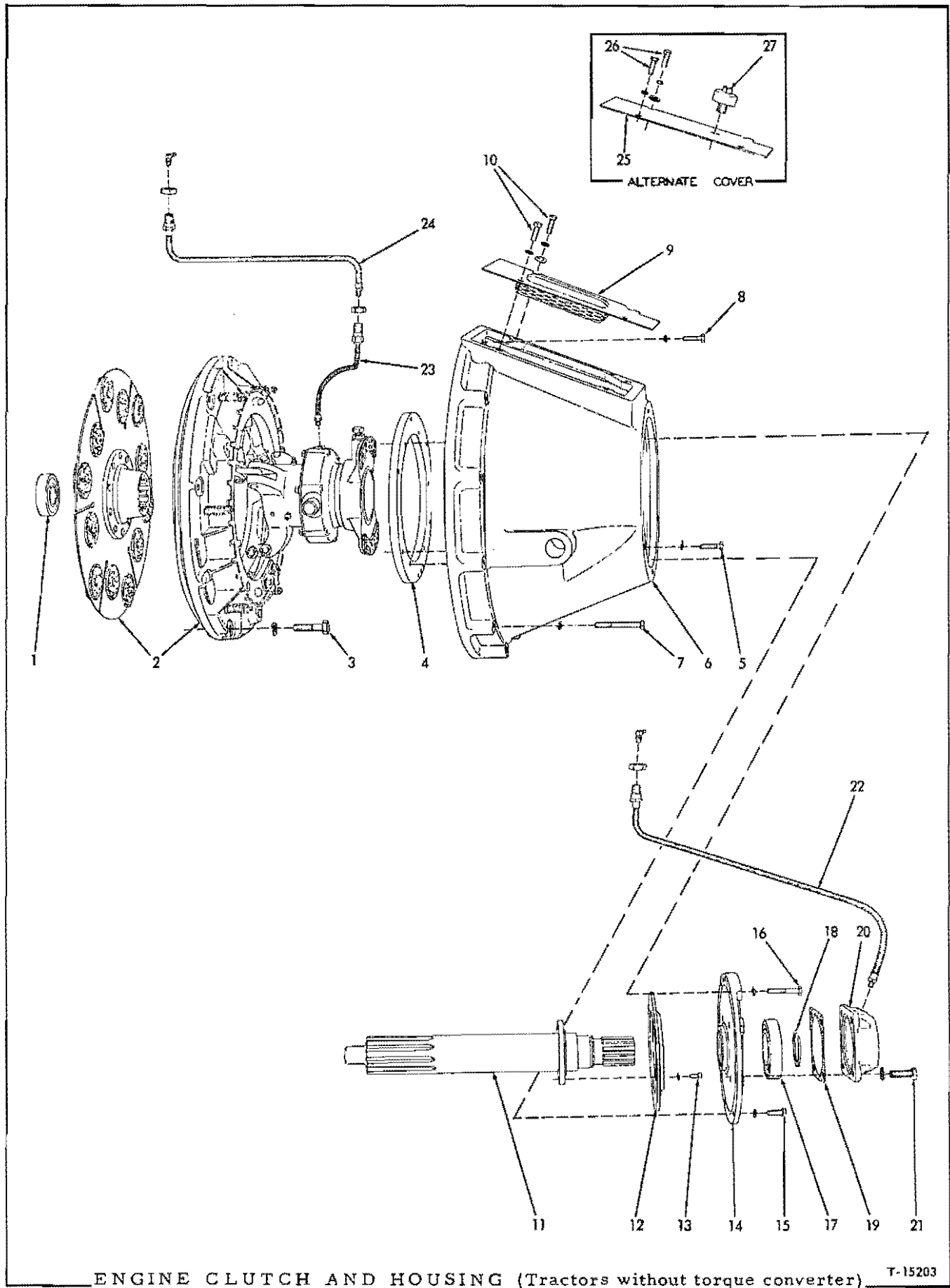
ITEM	PART NO.	QTY.	DESCRIPTION
1	70058867	1	PLATE ASSEMBLY, driven (Includes Raybestor facings which are not serviced separately)(Used prior to tractor #4518. Will fit later units also)
	70095569	1	PLATE ASSEMBLY, driven (Includes Feramic facings which are not serviced separately)(Effective with tractor #4518)
	70098323	1	PLATE ASSEMBLY, driven (Includes Ceramic facings)(Special. For heavy-duty application only)
2	70082464	1	PLATE, pressure
3	70620486	1	RING, adjusting (If for tractors prior to #4809 also order 1 LOCK 70620485)
4	70620487	1	PLATE, back
5	70082139	1	LOCK, adjusting ring (Used prior to tractor #4809)
	70620485	1	LOCK, adjusting ring (Effective with tractor #4809)
6	70082140	1	CAPSCREW, drilled end, 3/8"NC x 1"
	70917735	1	PIN, roll, 3/32" x 9/16"
7	70082148	4	SPRING, pressure plate retracting
8	-----	4	LEVER ASSEMBLY, pressure plate (Each includes 1 pin and 1 bearing which are not serviced separately)(Used prior to torque converter serial #63530; approx. tractor #768)(Order item 24)
	70088499	4	LEVER ASSEMBLY, pressure plate (Includes items 9 and 10) (Effective with torque converter serial #63530; approx. tractor #768)(Also see item 24)
9	70629038	4	BEARING, needle, pressure plate lever
10	70629037	4	PIN, pressure plate lever bearing
11	70082502	4	PIN, pressure plate lever
	70916202	4	PIN, roll, 1/8" x 7/8" (Also see item 24)
12	70082504	8	BEARING, needle, pressure plate lever pin (Also see item 24)
13	70634958	4	LINK, pressure plate lever (Used prior to torque converter serial #63530; approx. tractor #768)(Recommend order item 24)
14	70634959	4	LINK, pressure plate lever (Effective with torque converter serial #63530; approx. tractor #768)(Also see item 24)
15	-----	4	PIN, pressure plate lever (Used prior to tractor #2803)(Order 1 PIN 70094481, 1 COLLAR 70094483 and 1 PIN 70919180)
	70094481	4	PIN, pressure plate lever (Effective with tractor #2803)(Also see item 24)

(Continued)

ENGINE CLUTCH PARTS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
16	-----	4	PIN, shifting sleeve collar (Used prior to tractor #2803)(Order 1 PIN 70094482, 1 COLLAR 70094483 and 1 PIN 70919180)
	70094482	4	PIN, shifting sleeve collar (Effective with tractor #2803)(Also see item 24)
17	70058691	8	RING, pin retaining (Used prior to tractor #2803)
	70094483	8	COLLAR, pin retaining, (Effective with tractor #2803) (Also see item 24)
	70919180	8	PIN, roll, 1/8" x 5/8"
18	70082391	1	COLLAR, shifting sleeve
19	70091490	1	SLEEVE, shifting
	70900938	2	PIN, cotter, 3/16" x 1"
20	70054459	2	BLOCK, shifting sleeve
21	70054363	1	BEARING, ball, shifting sleeve
22	70054362	1	RING, retaining, shifting sleeve bearing (large)
23	70054364	1	RING, retaining, shifting sleeve bearing (small)
24	70088500	1	LEVER KIT, pressure plate (Complete set of parts for converting clutch assemblies used with converters prior to serial No. 63530; items 8, 12, 14 thru 17 and PIN 70916202 (item 11))(Not illustrated)

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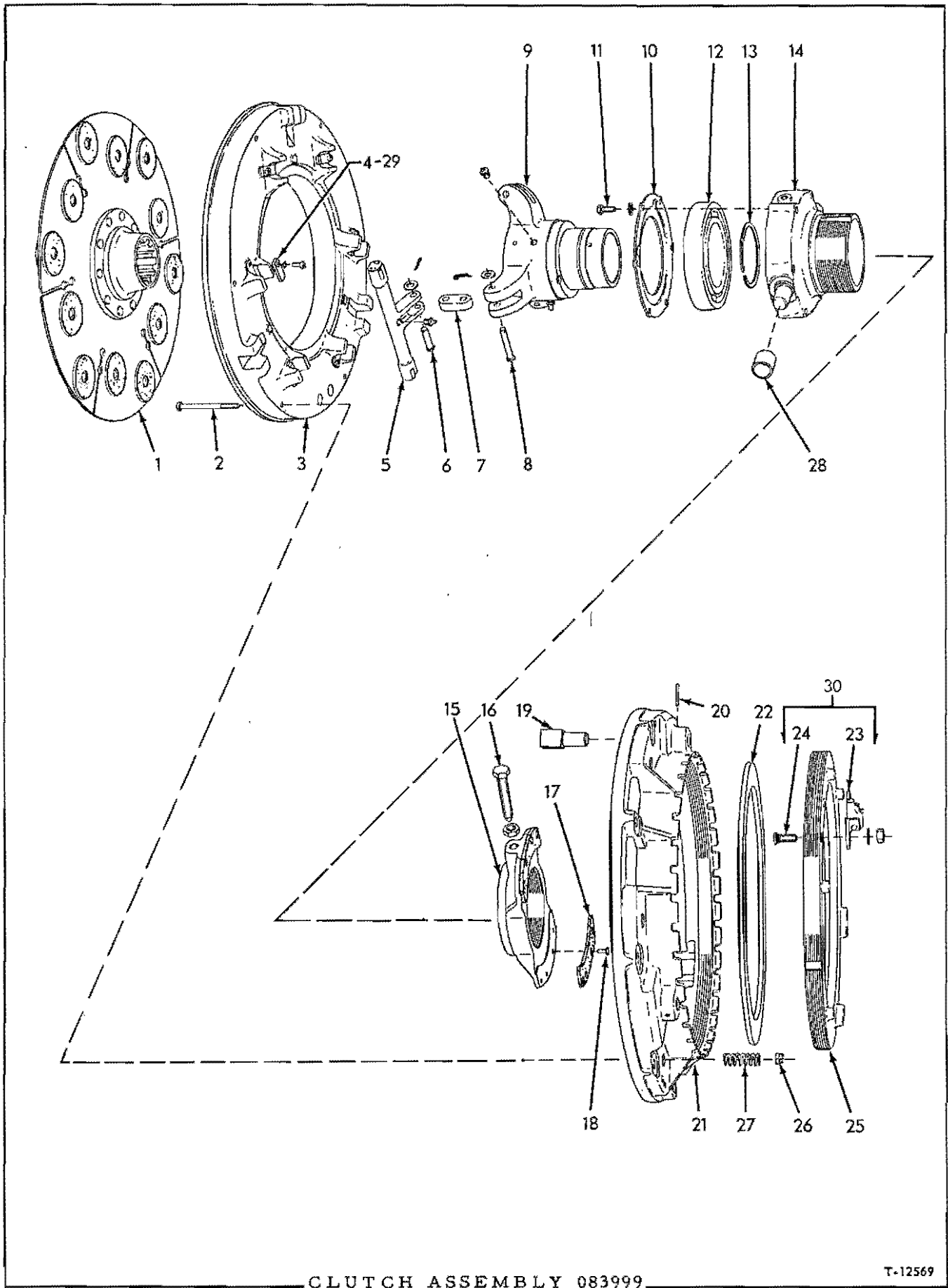


ENGINE CLUTCH AND HOUSING

USAGE: Tractors without torque converter

ITEM	PART NO.	QTY.	DESCRIPTION
1	70099133	1	BEARING, ball, clutch shaft, front
2	70083999	1	CLUTCH ASSEMBLY, engine (See page 245 for parts)
3	70921556	9	CAPSCREW, 1/2"NC x 2"
	70904208	9	LOCKWASHER, 1/2"
4	70083526	1	RING, flange, bearing retainer
5	70013058	6	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	6	LOCKWASHER, 3/8"
6	70083956	1	HOUSING, engine clutch
7	70056320	10	CAPSCREW, 3/8"NC x 3"
8	70013058	2	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	12	LOCKWASHER, 3/8"
9	70089192	1	PLATE, inspection (Standard equipment. Also see item 25)
10	70035439	4	CAPSCREW, 3/8"NC x 1"
	70904206	4	LOCKWASHER, 3/8"
	70044973	2	WASHER, plain
11	70082770	1	SHAFT, engine clutch
12	70050579	1	DISC, clutch brake
13	70083270	6	CAPSCREW, 5/16"NF x 3/4"
	70904205	6	LOCKWASHER, 5/16"
14	70083215	1	RETAINER, clutch shaft rear bearing (Used prior to tractor #5154)
	70623513	1	RETAINER, clutch shaft rear bearing (Effective with tractor #5154)
15	70035439	4	CAPSCREW, 3/8"NC x 1"
	70013059	2	CAPSCREW, 3/8"NC x 2" (Also attaches steering control bracket)(Used prior to tractor #5154)
16	70070960	2	CAPSCREW, 3/8"NC x 1-1/2" (Also attaches steering control bracket)(Effective with tractor #5154)
	70904206	6	LOCKWASHER, 3/8"
17	70067566	1	BEARING, ball, clutch shaft, rear
18	70050292	1	RING, snap, clutch shaft
19	70083528	1	GASKET, rear bearing cap
20	70083519	1	CAP, clutch shaft rear bearing
21	70035733	4	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	4	LOCKWASHER, 1/2"
22	70074065	1	HOSE, lubricating, clutch shaft rear bearing (25" long)
	70915275	1	FITTING, lubricating, 65°, 1/8"NPT
	70911036	1	NUT, jam, 5/8"NC
23	70053899	1	HOSE, lubricating, shifting sleeve bearing, lower (10-1/2" long)
	70911049	1	NUT, jam, 5/8"NF

(Continued)



CLUTCH ASSEMBLY 083999

T-12569

ENGINE CLUTCH AND HOUSING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
24	70084065	1	HOSE, lubricating, shifting sleeve bearing, upper (18" long)
	70915275	1	FITTING, lubricating, 65°, 1/8"NPT
	70911036	1	NUT, jam, 5/8"NC
25	70084394	1	PLATE, inspection (Special. For use with item 27 under very dusty conditions. Under normal conditions use of item 9 is recommended)
26	70035439	4	CAPSCREW, 3/8"NC x 1"
	70904206	4	LOCKWASHER, 3/8"
	70044973	2	WASHER, plain
27	70050748	1	BREATHER, clutch housing (Special. Used with item 25 only)

CLUTCH ASSEMBLY 70083999

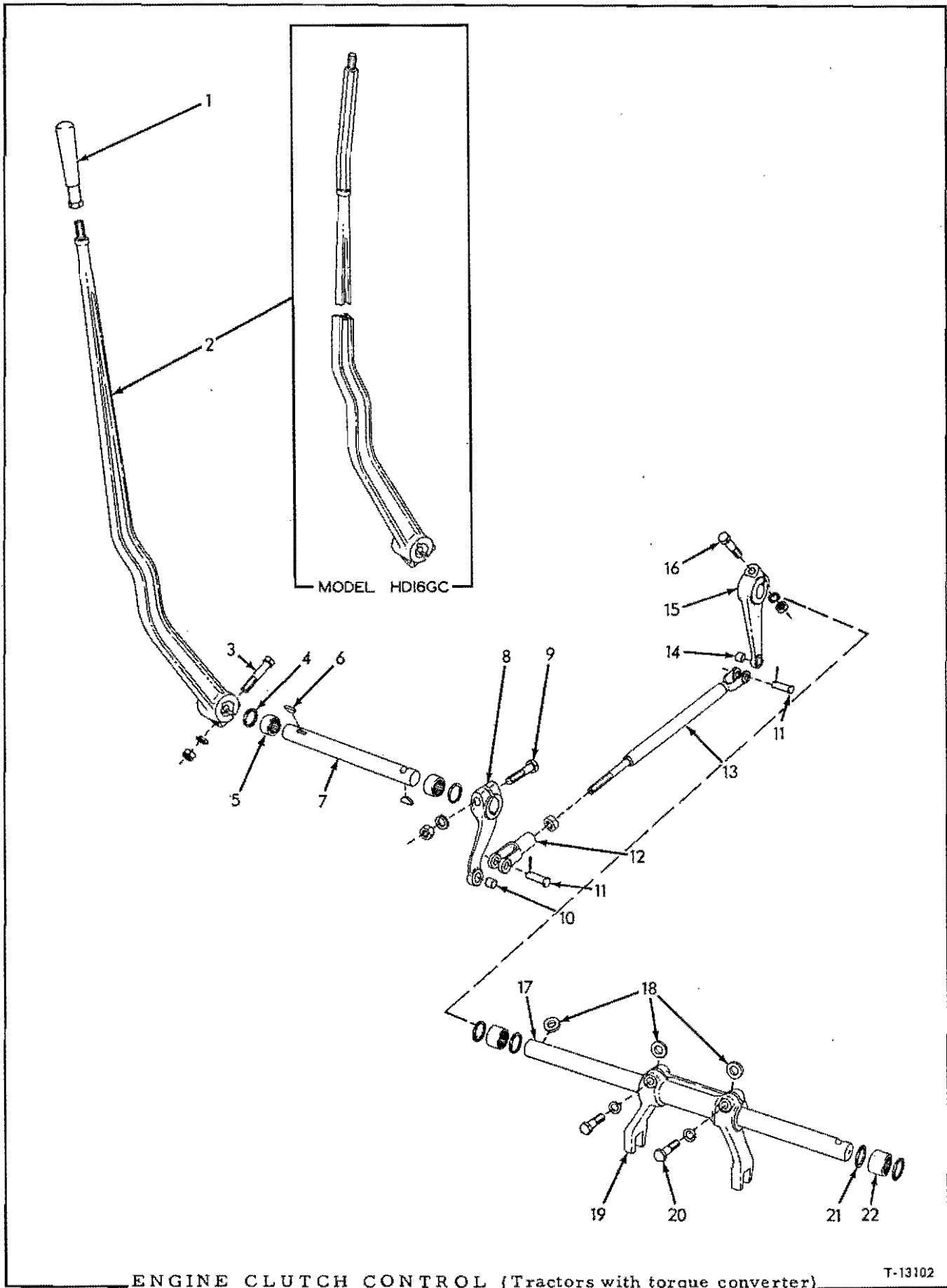
USAGE: See page 243

1	70082911	1	PLATE ASSEMBLY, drive (Has ceramic friction discs)	
2	70074245	6	SCREW, retracting spring (fil-hd., 5/16"NF x 3-1/2")	
3	70043470	1	PLATE ASSEMBLY, pressure (Includes item 4)	
4	70223585	6	BLOCK, cam (Recommend replacement in sets)	} Also see item 29
	70901226	6	SCREW, machine, fil-hd., 1/4"NC x 1/2"	
	70914593	6	LOCKWASHER, external teeth, 1/4"	
5	70073906	3	CAMSHAFT (Recommend replacement in sets. Includes FITTING 914465)	
	70914465	3	FITTING, lubricating, straight, 1/8"NPT	
6	70040221	3	PIN, connecting link, short	
	70911115	3	WASHER, plain, SAE std., 3/8"	
	70913984	3	PIN, cotter, 1/8" x 5/8"	
7	70073626	3	LINK, connecting	
8	70040220	3	PIN, connecting link, long	
	70911115	3	WASHER, plain, SAE std., 3/8"	
	70913984	3	PIN, cotter, 1/8" x 5/8"	
9	70083146	1	SLEEVE ASSEMBLY, shifting (Includes FITTING 70914465) Also includes 2 bushings which are not serviced separately)	
	70914465	3	FITTING, lubricating, straight, 1/8"NPT	
10	70040247	1	PLATE, retaining, shifting sleeve bearing	
11	70045312	6	CAPSCREW, 5/16"NC x 3/4"	
	70904205	6	LOCKWASHER, 5/16"	
12	70042975	1	BEARING, ball, shifting sleeve	
13	70041809	1	RING, retaining, shifting sleeve bearing	
14	70083144	1	CARRIER ASSEMBLY (includes item 28)	
15	70083135	1	PLATE ASSEMBLY, clutch brake (Includes item 17)	
16	70083149	1	SCREW, locking, clutch brake plate	
	70913830	1	NUT, jam, 1/2"NF (Continued)	

CLUTCH ASSEMBLY 70083999 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
17	70083134	1	FACING KIT, brake plate (Includes RIVETS indented below)
18	70083136	8	RIVET, tubular, brass, fl-hd., 1/4" x 7/16"
19	70040214	3	STUD, back plate
20	70084265	3	PIN, straight
21	70040213	1	PLATE ASSEMBLY, back (Includes items 19 and 20)
22	70040218	1	PLATE, adjusting ring
23	70044861	1	LOCK ASSEMBLY (Consists of 1 lock, 1 bracket, 1 spring and 1 pin. Serviced only as a unit)
24	70044860	2	SCREW, fl-hd., 3/8"NF x 1"
	70911115	2	WASHER, plain, SAE std., 3/8"
	70911041	2	NUT, 3/8"NF
			} Also see item 30
25	70040216	1	RING, adjusting
26	70073927	6	NUT, retracting spring screw (self-locking, 5/16"NF)
27	70078667	6	SPRING, pressure plate retracting
28	70058321	2	RACE, inner, operating yoke needle bearing
29	70043397	1	BLOCK KIT, clutch camshaft (Full set of blocks and attaching parts listed under item 4)
30	70044862	1	LOCK KIT, clutch adjustment (Consists of items 23 and 24)

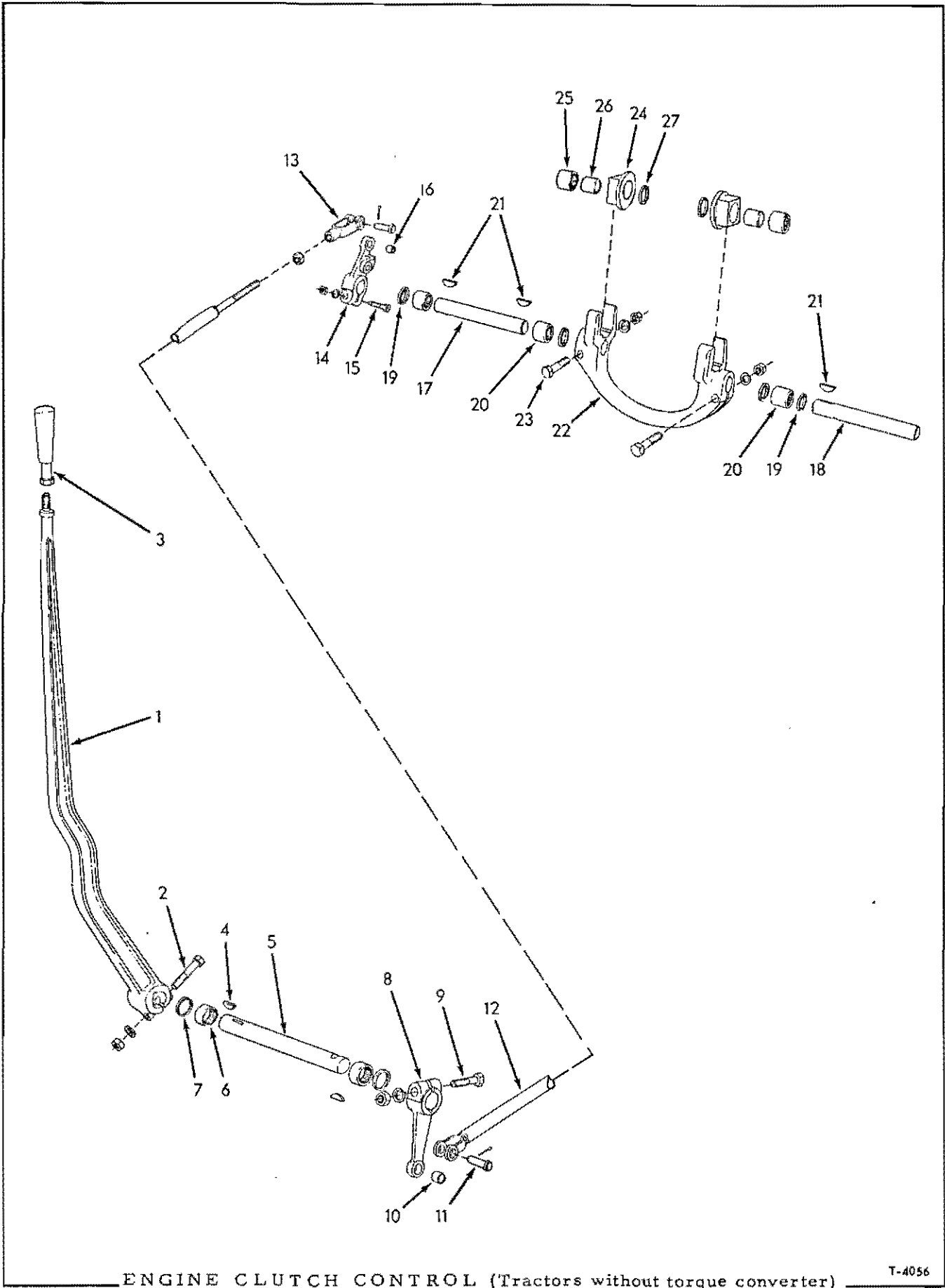
MEMO



ENGINE CLUTCH CONTROL

USAGE: Tractors with torque converter

ITEM	PART NO.	QTY.	DESCRIPTION
1	70078620	1	GRIP, operating lever
2	70059189	1	LEVER, operating (Models HD16AC, DC, FC)
	70092746	1	LEVER, operating (Model HD16GC)
3	70035892	1	CAPSCREW, 1/2"NF x 2-1/2"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
4	70053926	2	SEAL, dust, operating lever shaft bearing
5	70051513	2	BEARING, needle, operating lever shaft
6	70036997	2	KEY, #13 woodruff, hardened, 3/16" x 1"
7	70649412	1	SHAFT, operating lever
8	70075756	1	LEVER ASSEMBLY, operating lever shaft (Includes item 10)
9	70035068	1	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
10	70049988	1	BUSHING, shaft lever
11	70049993	2	PIN, control rod yoke
	70900805	2	PIN, cotter, 1/8" x 3/4"
12	70068389	1	YOKE, control rod
13	70081423	1	ROD, control
	70911043	1	NUT, 1/2"NF
14	70049988	1	BUSHING, fork shaft lever
15	70075758	1	LEVER ASSEMBLY, shifting fork shaft (Includes item 14)
16	70035892	1	CAPSCREW, 1/2"NF x 2-1/2"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
17	70091562	1	SHAFT, shifting fork
18	70052747	3	KEY, yoke shaft lever
19	70054461	1	FORK, shifting
20	70921556	2	CAPSCREW, 1/2"NC x 2"
	70904208	2	LOCKWASHER, 1/2"
21	70053243	4	SEAL, dust, shifting fork shaft bearing
22	70604435	2	BEARING, needle, shifting fork shaft



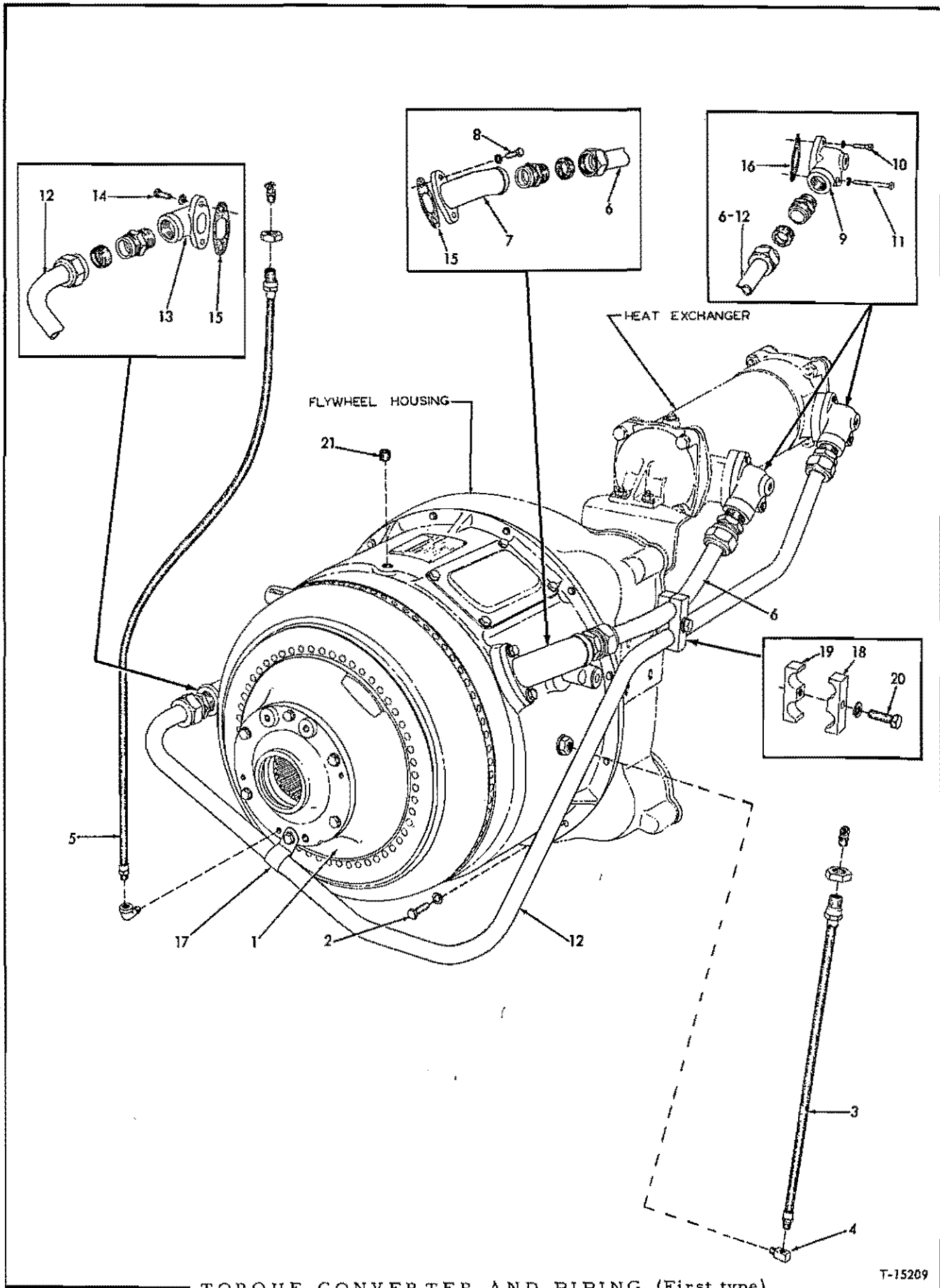
ENGINE CLUTCH CONTROL (Tractors without torque converter)

T-4056

ENGINE CLUTCH CONTROL

USAGE: For tractors without torque converter

ITEM	PART NO.	QTY.	DESCRIPTION
1	70059189	1	LEVER, operating
2	70035892	1	CAPSCREW, 1/2"NF x 2-1/2"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
3	70078620	1	GRIP, operating lever
4	70036997	2	KEY, #13 woodruff, hardened, 3/16" x 1"
5	70059195	1	SHAFT, operating lever
6	70051513	2	BEARING, needle, operating lever shaft
7	70053926	2	SEAL, dust, operating lever shaft bearing
8	70058313	1	LEVER ASSEMBLY, operating lever shaft (Includes item 10)
9	70035068	1	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
10	70049988	1	BUSHING, shaft lever
11	70049993	2	PIN, control rod yoke
	70900805	2	PIN, cotter, 1/8" x 3/4"
12	70081423	1	ROD, control
	70911043	1	NUT, 1/2"NF
13	70068389	1	YOKE, control rod
14	70069693	1	LEVER ASSEMBLY, shifting yoke shaft (Includes item 16)
15	70046419	1	CAPSCREW, 3/8"NF x 2"
	70904206	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF
16	70049988	1	BUSHING, yoke shaft lever
17	70059194	1	SHAFT, shifting yoke, left
18	70067515	1	SHAFT, shifting yoke, right
19	70053926	4	SEAL, dust, shifting yoke shaft bearing
20	70604925	3	BEARING, needle, shifting yoke shaft
21	70036997	3	KEY, #13 woodruff, hardened, 3/16" x 1"
22	70059191	1	YOKE, shifting
23	70035068	2	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
24	70059193	2	BLOCK, sliding
25	70063987	2	BEARING, needle, shifting yoke
26	-----	2	RACE, inner, shifting yoke needle bearing (See CLUTCH ASSEMBLY 70083999)
27	70053926	2	SEAL, dust, shifting yoke bearing



TORQUE CONVERTER AND PIPING (First type)

T-15209

TORQUE CONVERTER AND PIPING

USAGE: Model HD16AC, DC, FC, GC tractors prior to serial No. 4001

* Used prior to tractor serial No. 2993
 ** Effective with tractor serial No. 2993

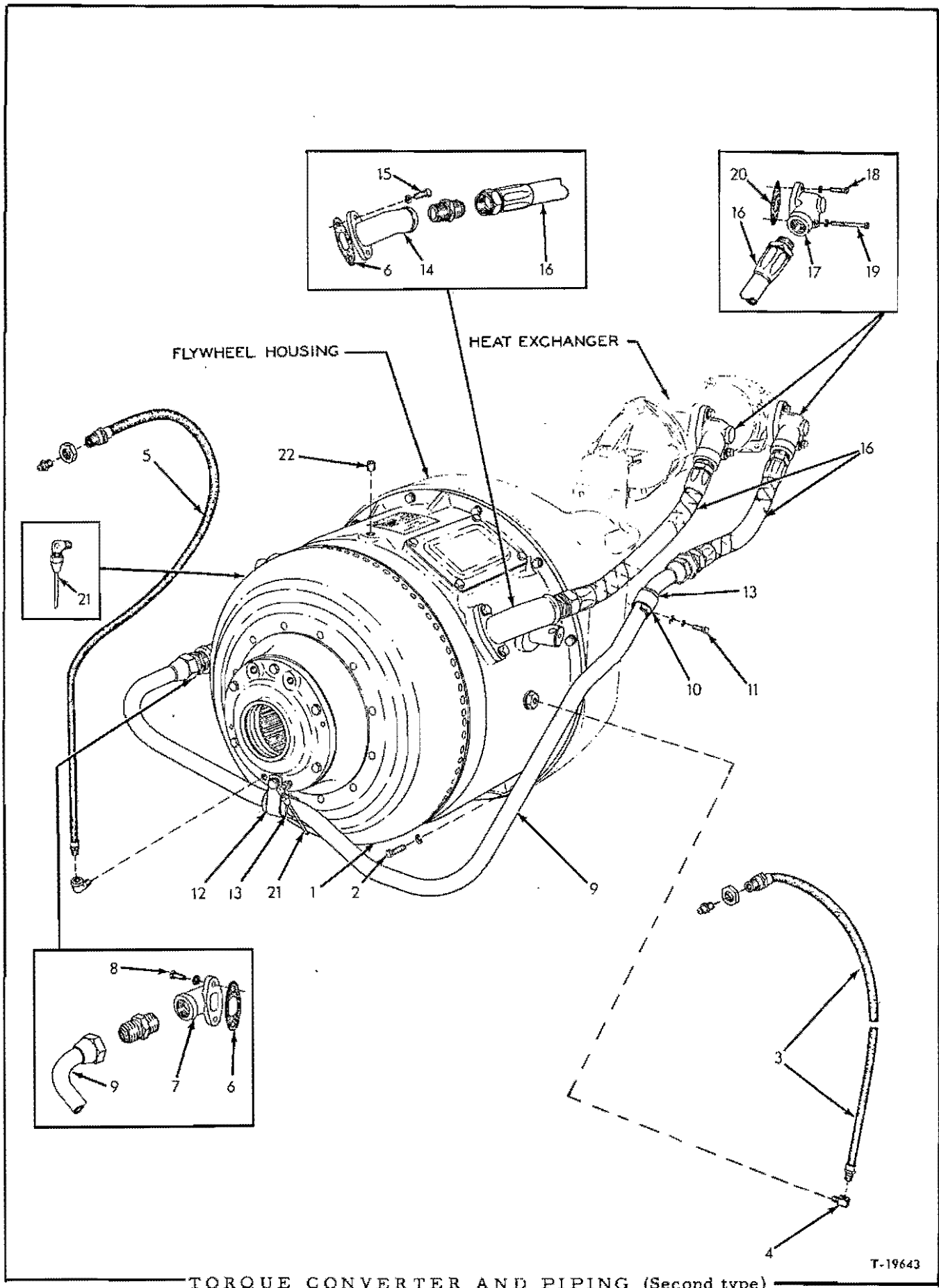
ITEM	PART NO.	QTY. * **	DESCRIPTION
1	-----	1 -	CONVERTER ASSEMBLY, torque (See page 261 for parts)(Used prior to tractor #1879 including #1880 and #1921)(Order 1 CONVERTER ASSEMBLY 70093244 and 1 SLEEVE 70091490)
	70093244	1 1	CONVERTER ASSEMBLY, torque (See page 261 for parts)(Effective with tractor #1879 excluding #1880 and #1921)
2	70013058	12 12	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	12 12	LOCKWASHER, 3/8"
<u>NOTE:</u> Each converter listed above includes engine clutch throwout mechanism and lubricating hoses.			
3	70084065	1 1	HOSE, lubricating, torque converter front bearing (18" long)(Models HD16AC, DC, FC)
	70074065	1 1	HOSE, lubricating, torque converter front bearing (25" long)(Model HD16GC only)
	70911036	1 1	NUT, jam, 5/8"NC
	70915275	1 1	FITTING, lubricating, 65°, 1/8"NPT (Models HD16AC, DC)
	70914465	1 1	FITTING, lubricating, straight, 1/8"NPT (Models HD16FC, GC)
4	70605794	1 1	ELBOW, front bearing lubricating hose (90°, 1/8"NPT male and female)
5	70074066	1 1	HOSE, lubricating, torque converter rear bearing (35" long)(Models HD16AC, DC, FC)
	70076322	1 1	HOSE, lubricating, torque converter rear bearing (31" long)(Model HD16GC only)
	70911036	1 1	NUT, jam, 5/8"NC
	70907059	1 1	ELBOW, street, 90°, 1/8"NPT
	70915275	1 1	FITTING, lubricating, 65°, 1/8"NPT (Models HD16AC, DC)
	70914465	1 1	FITTING, lubricating, straight, 1/8"NPT (Models HD16FC, GC)
6	70084654	1 1	TUBE, fluid return, heat exchanger to converter
	70915534	2 2	CONNECTOR, Sealastic, 1" tube, 1"NPT male
	70918566	2 2	NUT, Sealastic, 1" tube
	70915535	2 2	RING, Sealastic, 1" tube (Includes ferrule)
7	70093909	1 1	ELBOW, return tube at converter
8	70035439	2 2	CAPSCREW, 3/8"NC x 1"
	70904206	2 2	LOCKWASHER, 3/8"

(Continued)

TORQUE CONVERTER AND PIPING (Continued)

ITEM	PART NO.	QTY.	* **	DESCRIPTION
9	70084610	2	-	ELBOW, heat exchanger
	70095090	-	2	ELBOW, heat exchanger
10	70037450	2	-	CAPSCREW, 5/16"NC x 1-1/4"
	70013058	-	2	CAPSCREW, 3/8"NC x 1-1/4"
11	70086546	2	-	CAPSCREW, 5/16"NC x 2-3/4"
	70058936	-	2	CAPSCREW, 3/8"NC x 2-3/4"
	70904205	4	-	LOCKWASHER, 5/16"
	70904206	-	4	LOCKWASHER, 3/8"
12	70084676	1	1	TUBE, fluid discharge, converter to heat exchanger
	70915534	2	2	CONNECTOR, Sealastic, 1" tube, 1"NPT male
	70918566	2	2	NUT, Sealastic, 1" tube
	70915535	2	2	RING, Sealastic, 1" tube (Includes ferrule)
13	70080990	1	1	ELBOW, discharge tube at converter
14	70035439	2	2	CAPSCREW, 3/8"NC x 1"
	70904206	2	2	LOCKWASHER, 3/8"
15	70053173	2	2	GASKET, converter elbows
16	70075700	2	-	GASKET, heat exchanger elbow
	70095091	-	2	GASKET, heat exchanger elbow
17	70041303	1	1	CLIP, discharge tube (closed type, 1" diam., 15/32" bolt-hole)
18	70084678	1	1	CLAMP, heat exchanger tubes, outer half (plain hole)
19	70084679	1	1	CLAMP, heat exchanger tubes, inner half (threaded hole)
20	70035018	1	1	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	1	1	LOCKWASHER, 1/2"
21	70051496	1	1	PLUG, thread protecting (For lifting hole bracket)

MEMO



TORQUE CONVERTER AND PIPING (Second type)

TORQUE CONVERTER AND PIPING

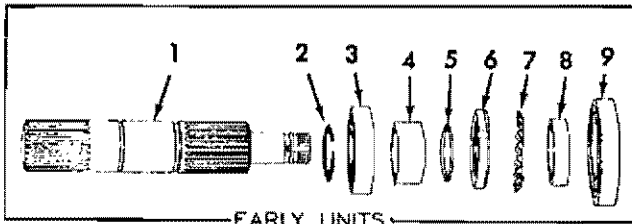
USAGE: Model HD16AC, DC, FC, GC tractors serial No. 4001 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	70093244	1	CONVERTER ASSEMBLY, torque (See page 261 for parts)(Includes engine clutch throwout mechanism and lubricating hoses)
2	70013058	12	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	12	LOCKWASHER, 3/8"
3	70084065	1	HOSE, lubricating, torque converter front bearing (18" long)(Not for Model HD16GC)
	70074065	1	HOSE, lubricating, torque converter front bearing (25" long)(Model HD16GC tractors prior to #5154)
	70076322	1	HOSE, lubricating, torque converter front bearing (31" long)(Model HD16GC tractors effective with #5154)
	70911036	1	NUT, jam, 5/8"NC
	70915275	1	FITTING, lubricating, 65°, 1/8"NPT (Models HD16AC, DC)
	70914465	1	FITTING, lubricating, straight, 1/8"NPT (Models HD16FC, GC)
4	70605794	1	ELBOW, front bearing lubrication hose (90°, 1/8"NPT male and female)
5	70074066	1	HOSE, lubricating, torque converter rear bearing (35" long)(Not for Model HD16GC)
	70076322	1	HOSE, lubricating, torque converter rear bearing (31" long)(Model HD16GC tractors prior to #5154)
	70624199	1	HOSE, lubricating, torque converter rear bearing (Model HD16GC tractors effective with #5154)
	70907059	1	ELBOW, street, 90°, 1/8"NPT
	70911036	1	NUT, jam, 5/8"NC
	70915275	1	FITTING, lubricating, 65°, 1/8"NPT (Models HD16AC, DC)
	70914465	1	FITTING, lubricating, straight, 1/8"NPT (Models HD16FC, GC)
6	70053173	2	□ GASKET, torque converter elbow
7	70080990	1	ELBOW, fluid outlet
8	70035439	2	CAPSCREW, 3/8"NC x 1"
	70904206	2	LOCKWASHER, 3/8"
9	70632661	1	TUBE ASSEMBLY, fluid discharge (Includes nuts)(If for tractors prior to #5561 also order CLIP 70632695)
	70919064	1	CONNECTOR, flare type, 1" tube, 1"NPT
10	70049769	1	CLIP, supporting, fluid discharge tube, front (long type)(Used prior to tractor #5561)
	70632695	1	CLIP, supporting, fluid discharge tube, front (short type)(Effective with tractor #5561)
11	70036034	1	CAPSCREW, 3/8"NF x 1" (Models HD16AC, DC)
	70036032	1	CAPSCREW, 3/8"NF x 3/4" (Models HD16FC, GC)
	70904206	1	LOCKWASHER, 3/8"
	70911115	1	WASHER, plain, SAE std., 3/8"

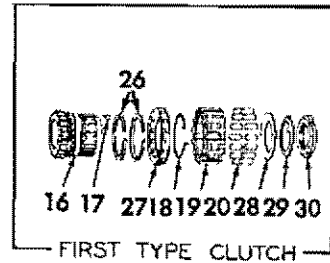
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TORQUE CONVERTER AND PIPING (Continued)

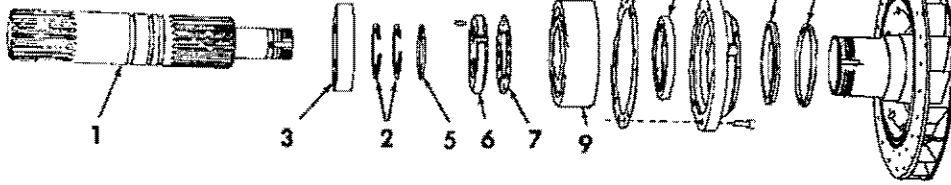
ITEM	PART NO.	QTY.	DESCRIPTION
12	70049769	1	CLIP, supporting, fluid discharge tube, rear
13	70094238	2	BOOT, protecting, fluid discharge tube
14	70093909	1	ELBOW, fluid inlet
15	70035439	2	CAPSCREW, 3/8"NC x 1"
	70904206	2	LOCKWASHER, 3/8"
16	70095127	2	HOSE ASSEMBLY, heat exchanger (See HOSE PARTS)
	70919064	1	CONNECTOR, flare type, 1" tube, 1"NPT
	70919268	1	UNION, flare type, 1" tube
17	70095090	2	ELBOW, heat exchanger
18	70013058	2	CAPSCREW, 3/8"NC x 1-1/4"
19	70058936	2	CAPSCREW, 3/8"NC x 2-3/4"
	70904206	4	LOCKWASHER, 3/8"
20	70095091	2	GASKET, heat exchanger elbow
21	70092029	2	TUBE, seal drain
	70910906	2	NUT, flare type, short, 3/16" tube
	70910268	2	ELBOW, flare type, 3/16" tube, 1/8"NPT male
	70901825	1	BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT
22	70051496	1	PLUG, thread protecting, lifting hole



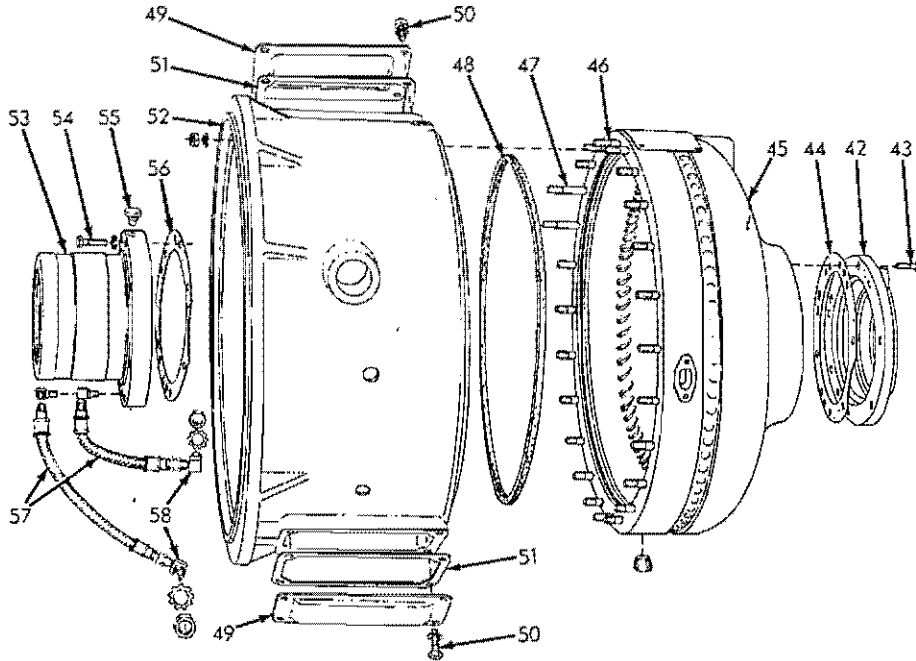
EARLY UNITS



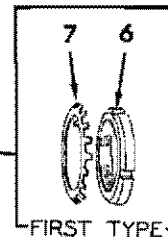
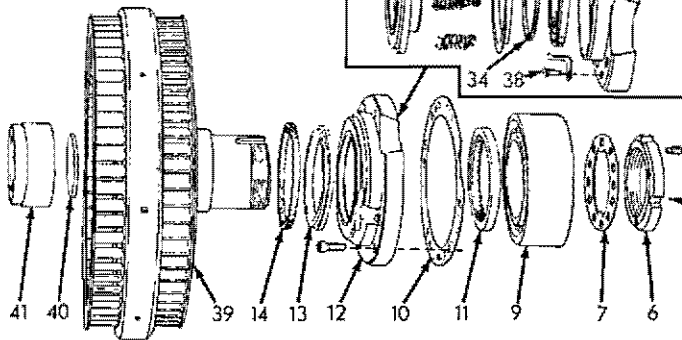
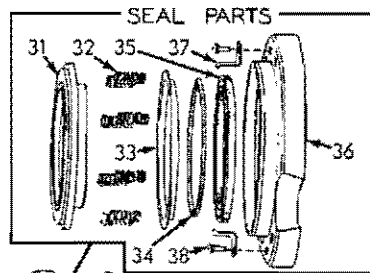
FIRST TYPE CLUTCH



INPUT SHAFT AND IMPELLER WHEEL



HOUSING AND COVERS



FIRST TYPE

TURBINE WHEEL

TORQUE CONVERTER PARTS

T-16292

TORQUE CONVERTER PARTS

USAGE: See pages 253 and 257

* Model HD16AC, FC, GC tractors prior to serial No. 1879 including Nos. 1880 and 1921
 ** Model HD16AC, DC, FC, GC tractors serial No. 1879 and up excluding No. 1880 and 1921

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70079773	1	-	SHAFT, input
	70091513	-	1	SHAFT, input
2	70052175	1	2	RING, snap, input shaft
3	70067171	1	1	BEARING, ball, input shaft
4	70079772	1	-	SPACER, input shaft bearing
5	70079771	1	1	RING, input shaft sealing
6	70052158	2	2	NUT, retaining, impeller and turbine wheel bearings (Used prior to Converter #101409)
	70624815	-	2	NUT, retaining, impeller and turbine wheel bearings (Effective with Converter #101409)
	70921401	-	2	SETSCREW, socket-hd., half-dog-pt., 3/16"NC x 3/4"
7	70052160	2	2	WASHER, locking, bearing retaining nut (Used prior to Converter #101409)
	70624816	-	2	WASHER, locking, bearing retaining nut (Effective with Converter #101409)
8	70052179	1	-	SPACER, impeller wheel bearing
9	70052157	2	-	BEARING, ball, impeller and turbine wheels
	70091575	-	2	BEARING, ball, impeller and turbine wheels
10	70052168	2	2	GASKET, fluid seal
11	70052176	2	2	SEAL, oil (also see item 59)
12	70064882	2	2	SEAL ASSEMBLY, fluid (Consists of item 11 and items 31 thru 38)
	70912267	12	12	CAPSCREW, socket-hd., 3/8"NC x 1"
13	70052174	2	2	RING, mating, fluid seal (Carbon)(Also see item 59)
14	70052183	2	2	WASHER, sealing, fluid seal mating ring (rubber) (Also see item 59)
15	70093245	1	1	WHEEL, impeller

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TORQUE CONVERTER PARTS (Continued)

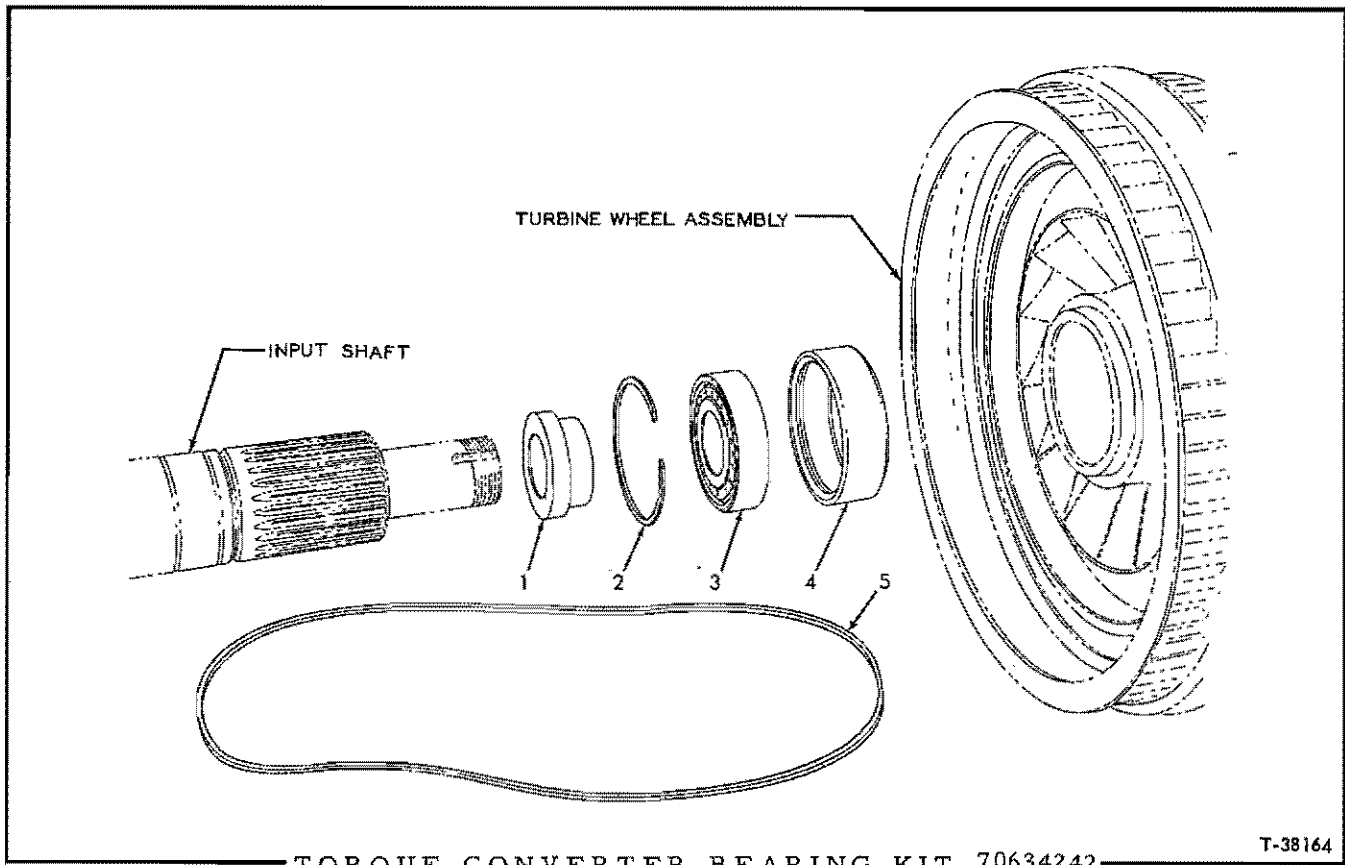
ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
				<u>NOTE:</u> Items 16 thru 20 are components of the FIRST TYPE OVER-RUNNING CLUTCH used prior to torque converter serial No. 63961.	
16	-----	1	-	CAM, over-running clutch (Order item 60)	
17	70076839	1	-	PIN, stop, clutch roller cage	
18	-----	1	-	SPRING, clutch roller cage	} Order item 60
19	-----	1	-	CAGE, clutch rollers	
20	-----	14	-	ROLLER, clutch	
				<u>NOTE:</u> Items 21 thru 26 are components of the SECOND TYPE OVER-RUNNING CLUTCH effective with torque converter serial No. 63961.	
21	-----	1	1	CAM, over-running clutch	} Order item 60
22	-----	1	1	CAGE ASSEMBLY, clutch rollers (Includes 2 spring guiding pins)	
23	-----	14	14	ROLLER, clutch	
24	-----	2	2	SPRING, cage return	
25	-----	5	5	SPRING, bumper	
26	70067704	2	2	RING, snap, over-running clutch cam	
27	70069770	1	1	ROLLER ASSEMBLY, clutch bearing	} Also see item 60
28	{ 70052184	1	1	WASHER, retaining, over-running clutch (plain type. Used prior to Converter #101409)	
	{ 70624817	-	1	WASHER, retaining, over-running clutch (keyed type. Effective with Converter #101409)(Also see item 60)	
29	70030123	1	1	WASHER, locking, input shaft nut (Used prior to Converter #101409)	
30	{ 70030107	1	1	NUT, input shaft (Used prior to Converter #101409)	
	{ 70624814	-	1	NUT, input shaft (Effective with Converter #101409)	
	{ 70921400	-	1	SETSCREW, socket-hd., half-dog-pt., 1/4"NC x 5/8"	
31	-----	2	2	NOSE-PIECE, fluid seal (Not serviced. Order item 59)	
32	70058717	16	16	SPRING, fluid seal	} Also see item 59
33	70055278	2	2	WASHER, retaining, fluid seal element	
34	70057269	2	2	SPRING, clamping, fluid seal element	
35	70057270	2	2	ELEMENT, fluid seal (rubber)	
36	-----	2	2	CARRIER, fluid seal (Not serviced. Order item 12)	
37	70057268	4	4	CLIP, retaining, fluid seal nose-piece	} Also see item 59
38	70057267	4	4	CAPSCREW ASSEMBLY (Includes lockwasher)	
39	{ 70083595	1	-	WHEEL ASSEMBLY, turbine (Includes items 40 and 41)(See EXCHANGE OFFER below)	
	{ 70091581	-	1	WHEEL ASSEMBLY, turbine (Includes items 40 and 41)(See EXCHANGE OFFER below)	
40	70052172	1	1	PLUG, turbine wheel	
41	{ -----	1	1	RACE, outer, over-running clutch (Standard size. Not serviced separately)	
	{ 70096656	1	1	RACE, outer, over-running clutch (.020" oversize)	
	{ 70096657	1	1	RACE, outer, over-running clutch (.060" oversize)	
				<u>NOTE:</u> Replacement of clutch outer race requires precision machining	

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TORQUE CONVERTER PARTS (Continued)

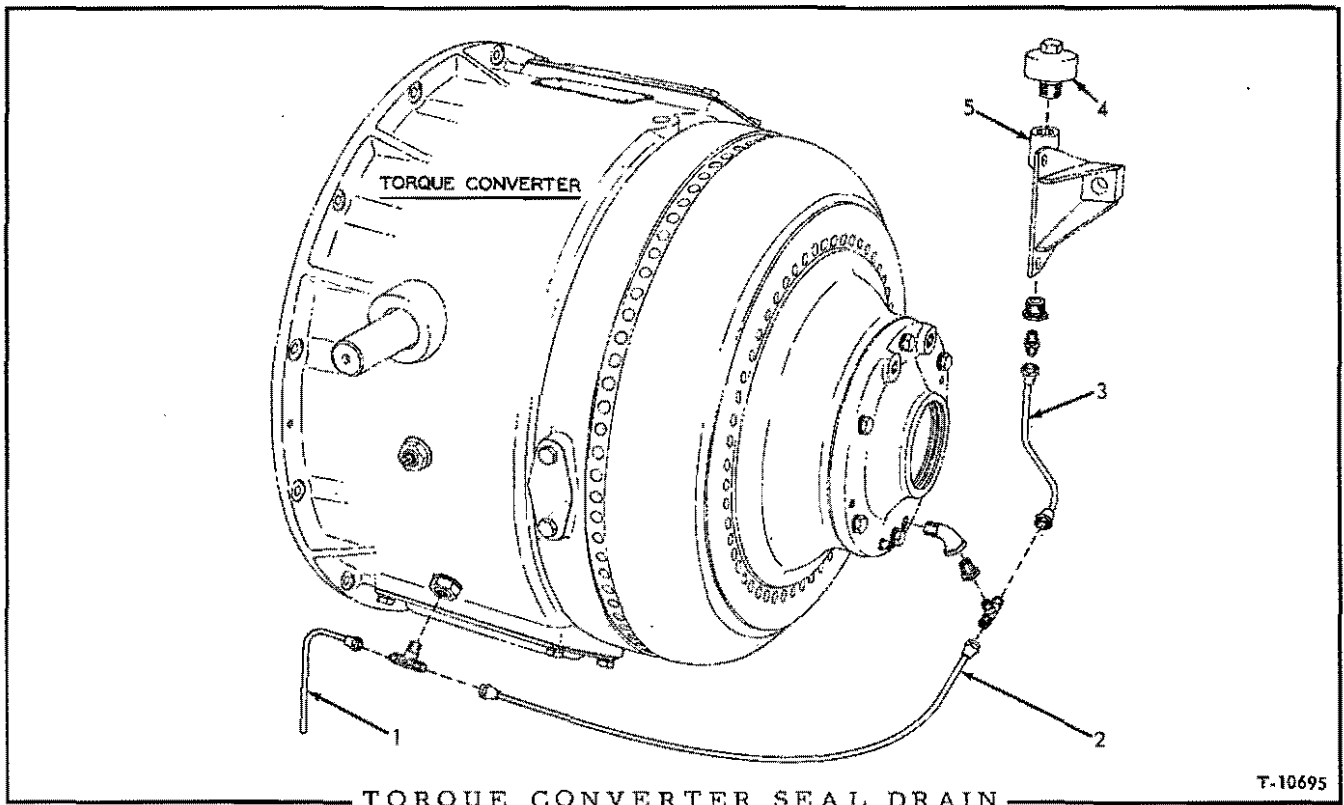
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
42	70058819	1	-	RETAINER, turbine wheel bearing
	70091561	-	1	RETAINER, turbine wheel bearing
43	70013058	6	-	CAPSCREW, 3/8"NC x 1-1/4"
	70070960	-	6	CAPSCREW, 3/8"NC x 1-1/2"
	70904206	6	-	LOCKWASHER, 3/8"
44	70052168	1	1	GASKET, bearing retainer
45	70058695	1	1	HOUSING ASSEMBLY, turbine (Blades are not serviced separately)
	70069214	1	1	HOUSING ASSEMBLY, turbine (Reconditioned. See Parts Bulletin No. CM-9 and Service Bulletin No. 16 for plans of reconditioning used housings)
	70908944	1	1	PLUG, pipe, hex-socket 1/2"NPT
46	70052181	22	22	STUD (3/8" diam., 1-3/4" long)
47	70052182	2	2	STUD (3/8" diam., 2-3/4" long)
	70904206	24	24	LOCKWASHER, 3/8"
	70911041	24	24	NUT, 3/8"NF
48	70052166	1	1	GASKET, turbine housing (Also see item 60)
49	70057639	2	2	PLATE, inspection
50	70035244	8	8	CAPSCREW, 3/8"NC x 3/4"
	70904206	4	4	LOCKWASHER, 3/8"
51	70057629	2	2	GASKET, inspection plate
52	70067151	1	1	HOUSING ASSEMBLY, clutch (Includes 1 PLUG 70910230)
	70910230	1	1	PLUG, pipe, slotted-hd., 1/8"NPT
53	70067147	1	-	CARRIER, input shaft bearing
	70091555	-	1	CARRIER, input shaft bearing
54	70013058	6	6	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	6	6	LOCKWASHER, 3/8"
55	70605132	1	1	VENT, air, input shaft bearing carrier
56	70052168	1	1	GASKET, input shaft bearing carrier
57	70621813	2	2	HOSE, greasing and draining
	70915399	2	2	ELBOW, street, brass, 90°, 3/8"NPT
58	70090652	2	2	FITTING, elbow
	70910543	2	2	LOCKWASHER, external teeth, 5/8"
	70911049	2	2	NUT, jam, 5/8"NF
59	70062164	2	2	SEAL KIT, torque converter fluid (Consists of items 11, 13, 14, 31 thru 35, 37 and 38; two kits required per unit) (Not illustrated)
60	70090465	1	1	CLUTCH KIT, over-running, (Consists of items 21 thru 28 and 48) (Not illustrated)

TURBINE WHEEL EXCHANGE OFFER: A used Turbine Wheel Assembly may be returned for credit, subject to factory inspection, to apply on the purchase of a new Turbine Wheel Assembly. Used Wheel Assembly No. 70083595 is identified as Part No. 70084822 and Used WHEEL ASSY. No. 70091581 is identified as Part No. 70091581. The amount of allowable credit is indicated in the Master Parts Price List under these numbers.



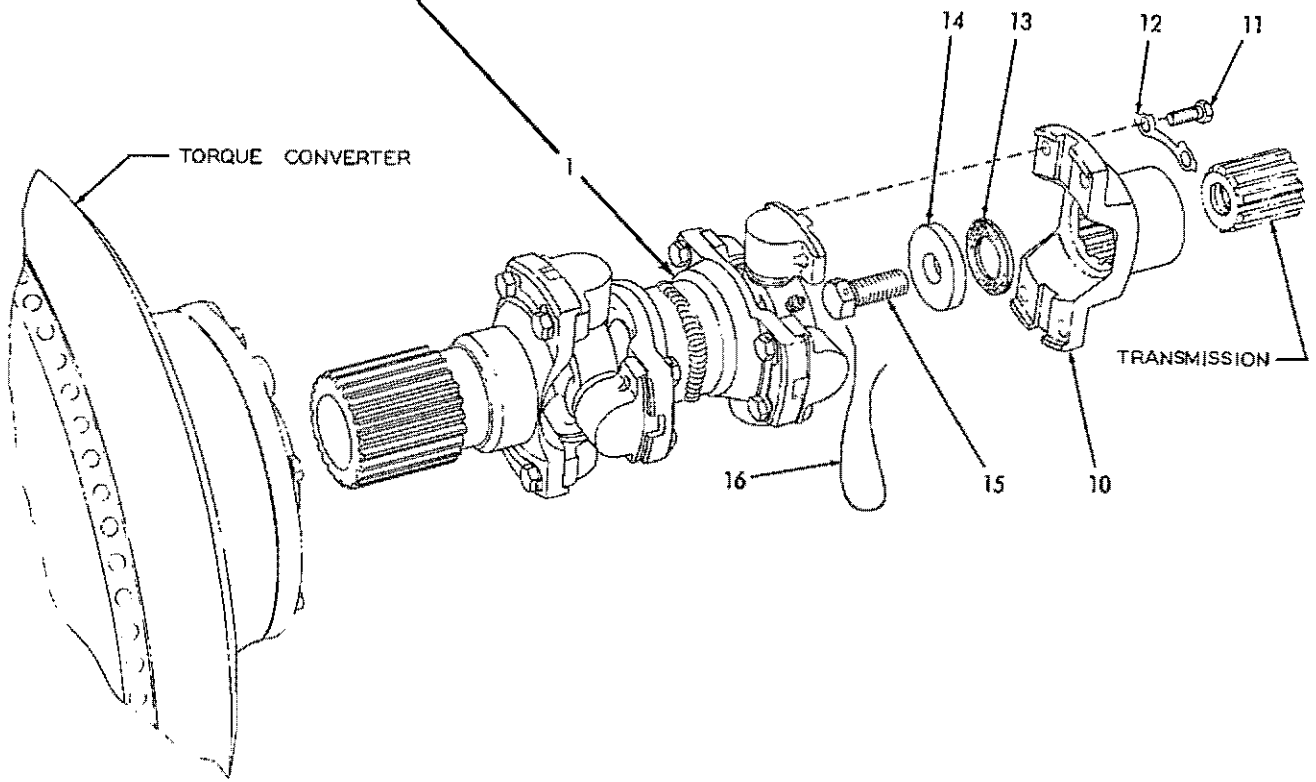
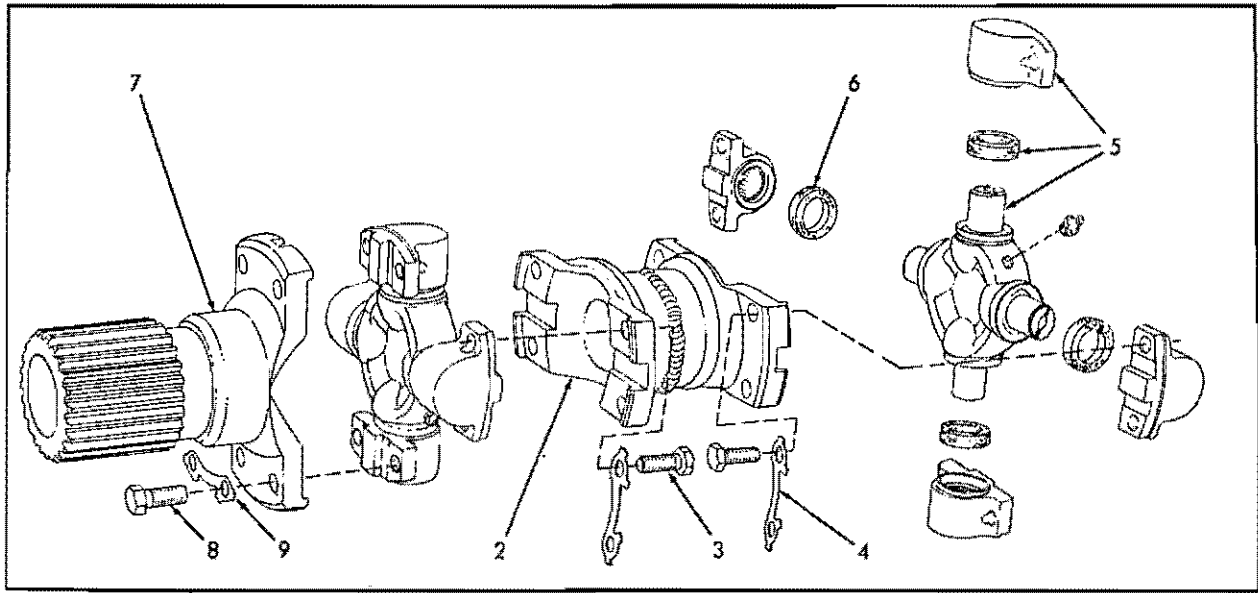
USAGE: Special equipment. May be installed in place of over-running CLUTCH KIT 70090465 if push starting or engine braking is not essential.

ITEM	PART NO.	QTY.	DESCRIPTION
-	70634242	1	BEARING KIT, over-running clutch replacement (Consists of items listed below)
1	70634234	1	SPACER, bearing
2	70634233	1	RING, snap, roller bearing
3	70059095	1	BEARING, roller
4	70634232	1	SLEEVE, adapter, roller bearing (Requires precision machining and welding to install)
5	70052166	1	GASKET, turbine housing



USAGE: Model HD16AC, DC, FC, GC tractors prior to serial No. 4001

ITEM	PART NO.	QTY.	DESCRIPTION
1	70083283	1	TUBE ASSEMBLY, front (Includes nut)(Used prior to tractor #2236)
	70914474	1	TEE, flare type, 3/16" tube, 1/8"NPT male
2	70079497	1	TUBE ASSEMBLY, rear (Includes nuts)(Used prior to tractor #2236. For tractors prior to #1484 also order 1 BUSHING 70901825 and 1 ELBOW 70907058)
	70914474	1	TEE, flare type, 3/16" tube, 1/8"NPT male
	70907061	1	COUPLING, pipe reducing, 1/4"NPT to 1/8"NPT (Used prior to tractor #1484)
	70901478	1	NIPPLE, pipe, 1/4"NPT x 7/8" (Used prior to tractor #1484)
	70901825	1	BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT (Effective with tractor #1484)
	70907058	1	ELBOW, pipe, 45°, 1/4"NPT (Effective with tractor #1484)
3	70089034	1	TUBE ASSEMBLY, breather (Includes nuts)(Used prior to tractor #2236)
	70910905	1	CONNECTOR, flare type, 3/16" tube, 1/8"NPT male
	70901838	1	BUSHING, pipe reducing, 3/8"NPT to 1/8"NPT
4	70050748	1	BREATHER, air (Used prior to tractor #2236)
5	-----	1	BRACKET (See GEAR SHIFT)
6	70092029	2	TUBE, seal drain (2" long)(Effective with tractor #2236. Not illustrated)
	70910906	2	NUT, flare type, short, 3/16" tube
	70910268	2	ELBOW, flare type, 3/16" tube, 1/8"NPT male
	70901825	1	BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT



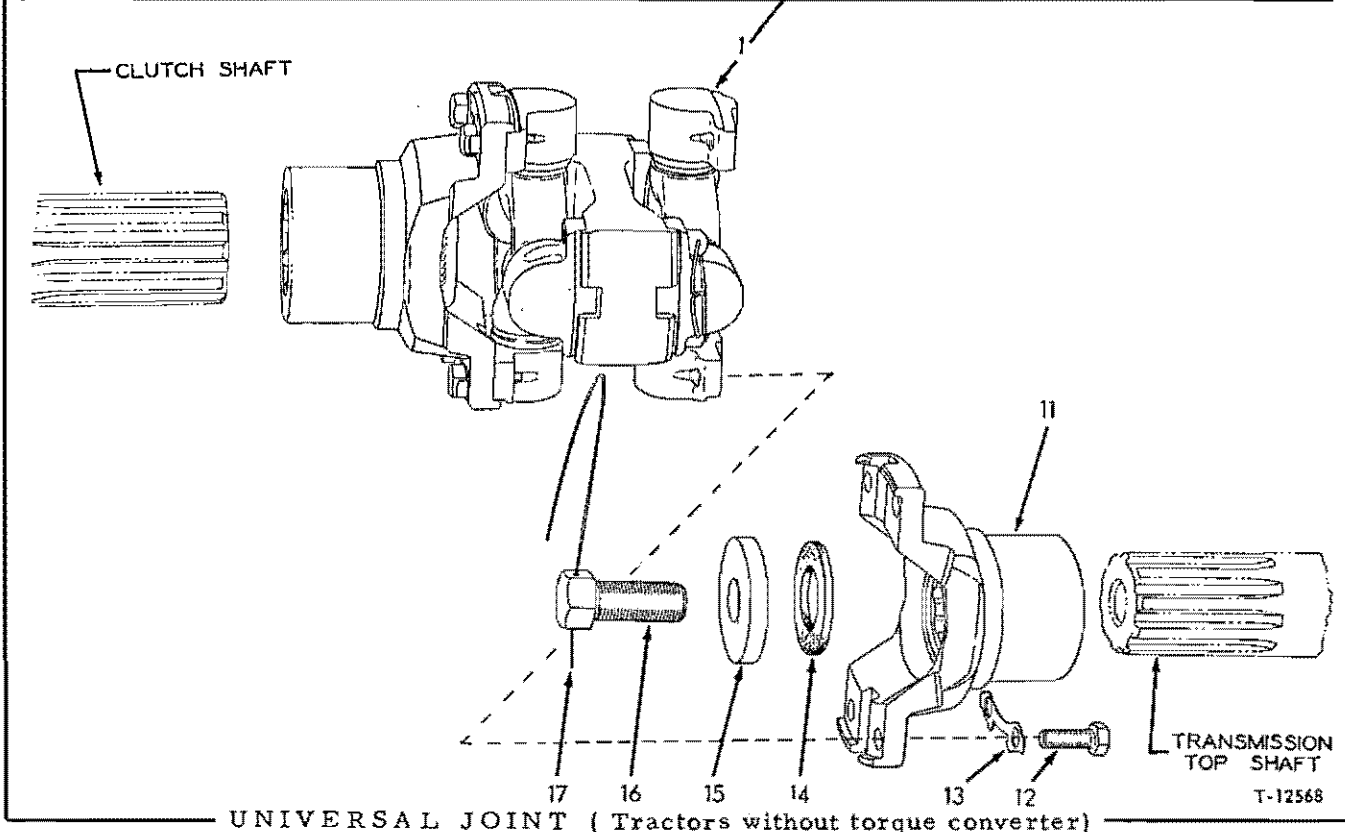
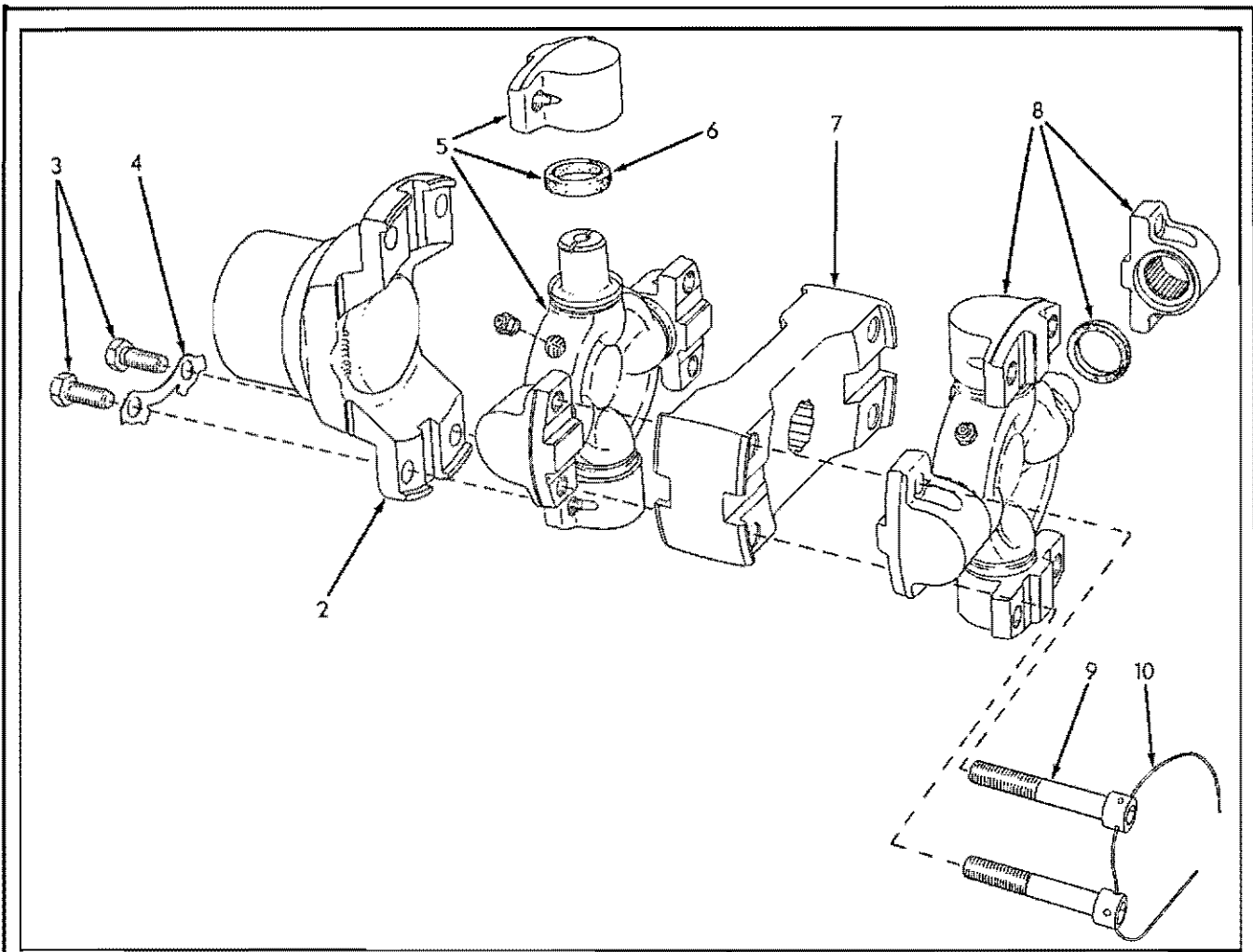
UNIVERSAL JOINT (Tractors with torque converter)

T-12567

UNIVERSAL JOINT

USAGE: Tractors with torque converter

ITEM	PART NO.	QTY.	DESCRIPTION
1	70081837	1	JOINT ASSEMBLY, universal (Consists of items 2 thru 9)
2	70081786	1	YOKE, center
3	70058739	8	CAPSCREW, 7/16"NF x 1-1/16"
4	70058741	4	LOCK, capscrew
5	70083616	2	SPIDER ASSEMBLY (Includes bearings, item 6 and
			FITTING indented below. Serviced only as a unit)
	70914687	2	FITTING, lubricating, straight, 1/4"NF
6	70084351	8	WASHER, sealing, spider bearing
7	70058738	1	YOKE, front
8	70058739	4	CAPSCREW, 7/16"NF x 1-1/16"
9	70058741	2	LOCK, capscrew
10	70075905	1	YOKE, rear
11	70058739	4	CAPSCREW, 7/16"NF x 1-1/16"
12	70058741	2	LOCK, capscrew
13	70059813	1	SEAL, rear yoke (rubber)
14	70078314	1	WASHER, rear yoke retaining
15	70075950	1	CAPSCREW, yoke retaining
16	70023633	1	WIRE, locking, 1/16" x 12"



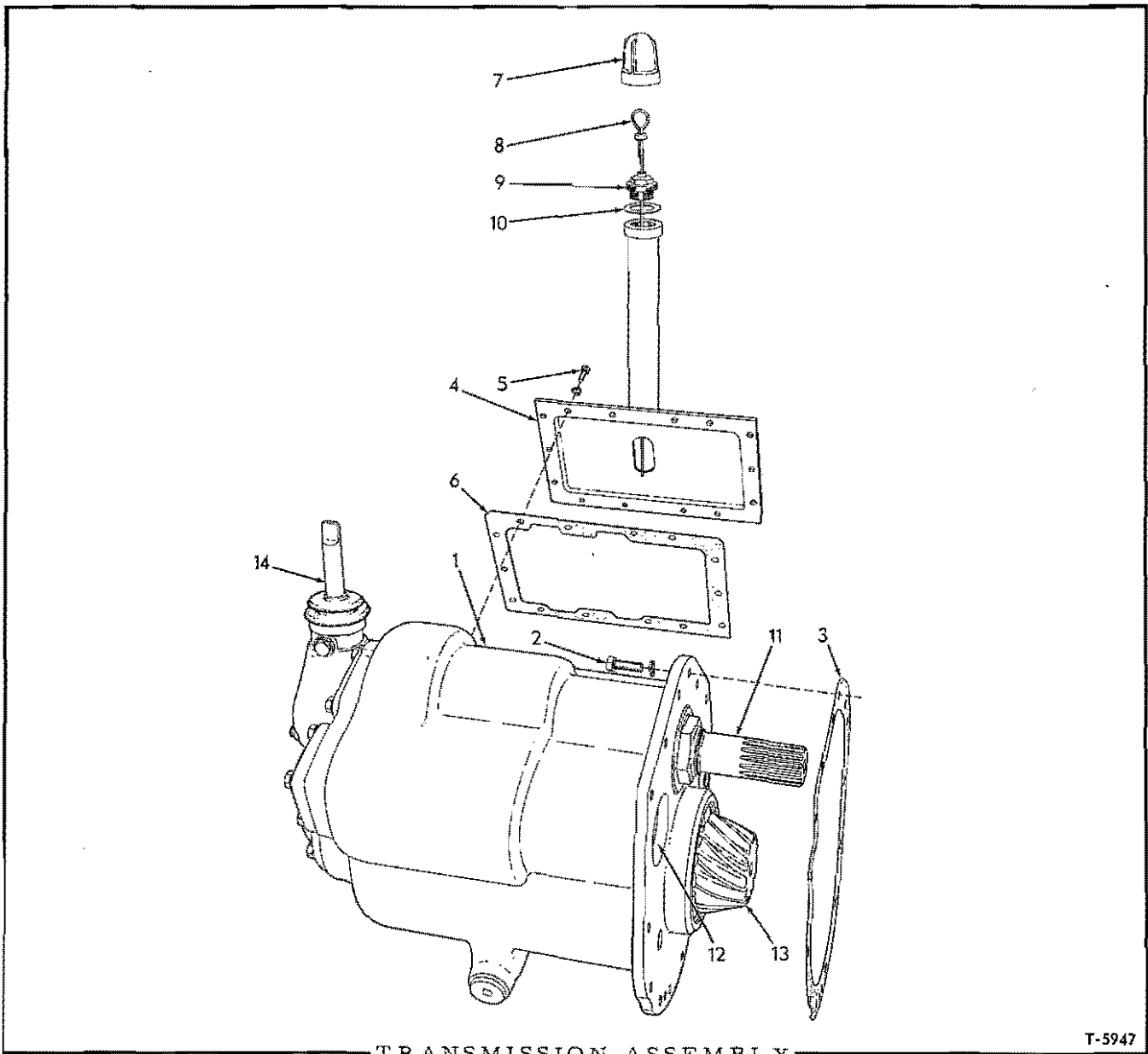
UNIVERSAL JOINT (Tractors without torque converter)

T-12568

UNIVERSAL JOINT

USAGE: Tractors without torque converter

ITEM	PART NO.	QTY.	DESCRIPTION
1	70081928	1	JOINT ASSEMBLY, universal (Consists of items 2 thru 10)
2	70059881	1	YOKE ASSEMBLY, front (Includes cup plug)
3	70035167	4	CAPSCREW, 3/8"NF x 7/8"
4	70059876	2	LOCK, capscrew
5	70085918	1	SPIDER ASSEMBLY, front (Includes four tapped bearings, item 6, and FITTING indented below. Serviced only as a unit)
	70914687	1	FITTING, lubricating, straight, 1/4"NF
6	70076461	8	WASHER, sealing, spider bearing
7	70085927	1	COUPLING, center
8	70084328	1	SPIDER ASSEMBLY, rear (Includes two tapped bearings, two plain bearings, item 6, and FITTING indented below. Serviced only as a unit)
	70914687	1	FITTING, lubricating, straight, 1/4"NF
9	70076460	4	CAPSCREW, coupling
10	70023756	1	WIRE, locking, 1/16" x 26"
11	70624528	1	YOKE, rear
12	70035167	4	CAPSCREW, 3/8"NF x 7/8"
13	70059876	2	LOCK, capscrew
14	70059813	1	SEAL, rear yoke (rubber)
15	70078314	1	WASHER, rear yoke retaining
16	70075950	1	CAPSCREW, rear yoke retaining
17	70023633	1	WIRE, locking, 1/16" x 12"



TRANSMISSION ASSEMBLY

T-5947

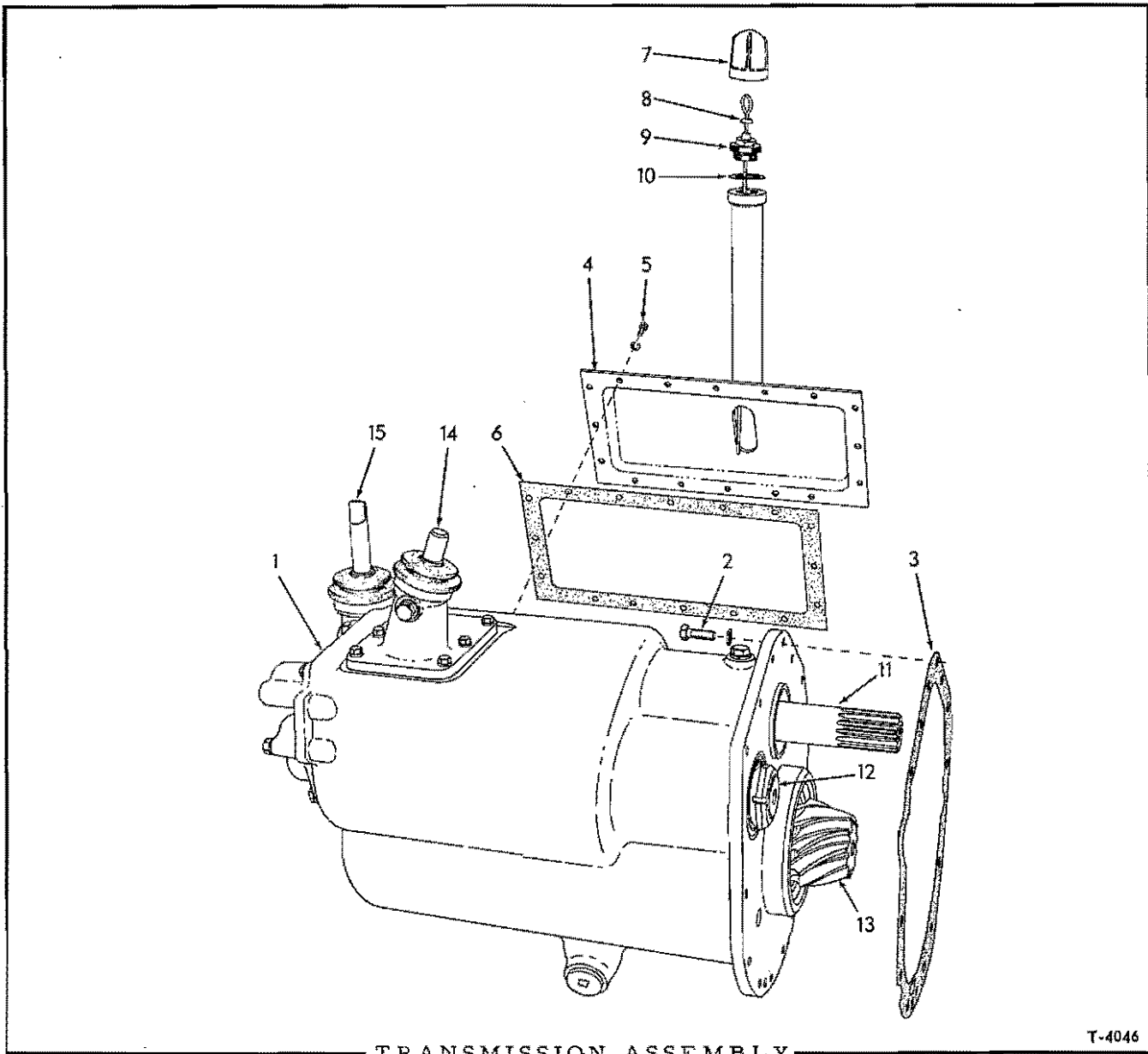
USAGE: Tractors with torque converter

ITEM	PART NO.	QTY.	DESCRIPTION
1	70083619	1	TRANSMISSION ASSEMBLY (Includes 14-tooth bevel pinion, all gears, shafts and shifting forks) (Used prior to tractor #4834)
	70623178	1	TRANSMISSION ASSEMBLY (Includes 12-tooth bevel pinion, all gears, shafts and shifting forks) (Used on tractors #4834 thru #5042)
	70098943	1	TRANSMISSION ASSEMBLY (Includes 12-tooth bevel pinion, all gears, shafts and shifting forks) (Used on tractors #5043 thru #5153, excluding #5104)
	70623726	1	TRANSMISSION ASSEMBLY (Includes 12-tooth bevel pinion, all gears, shafts and shifting forks) (Effective with tractor #5154, including #5104)
2	70035018	14	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	14	LOCKWASHER, 1/2"

(Continued)

TRANSMISSION ASSEMBLY (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
3	70623618	1	GASKET, case to steering clutch housing
4	70075390	1	COVER, side
5	70035244	14	CAPSCREW, 3/8"NC x 3/4"
	70904206	14	LOCKWASHER, 3/8"
			} 3 less used on tractors #5043 thru #5153, except #5104
6	70075391	1	GASKET, side cover
7	70034265	1	CAP, oil level gauge rod (Used prior to tractor #1584)
	70089827	1	CAP, oil level gauge rod (Effective with tractor #1584)
8	70034304	1	ROD, gauge, transmission oil level
9	70034268	1	PLUG, transmission oil filling hole (Used prior to tractor #1584)
	70089814	1	PLUG, transmission oil filling hole (Effective with tractor #1584)
10	70034269	1	GASKET, oil level gauge rod cap
11	-----	-	See TRANSMISSION TOP SHAFT
12	-----	-	See TRANSMISSION REVERSE SHAFT
13	-----	-	See TRANSMISSION PINION SHAFT
14	-----	-	See GEAR SHIFT



TRANSMISSION ASSEMBLY

T-4046

USAGE: Tractors without torque converter

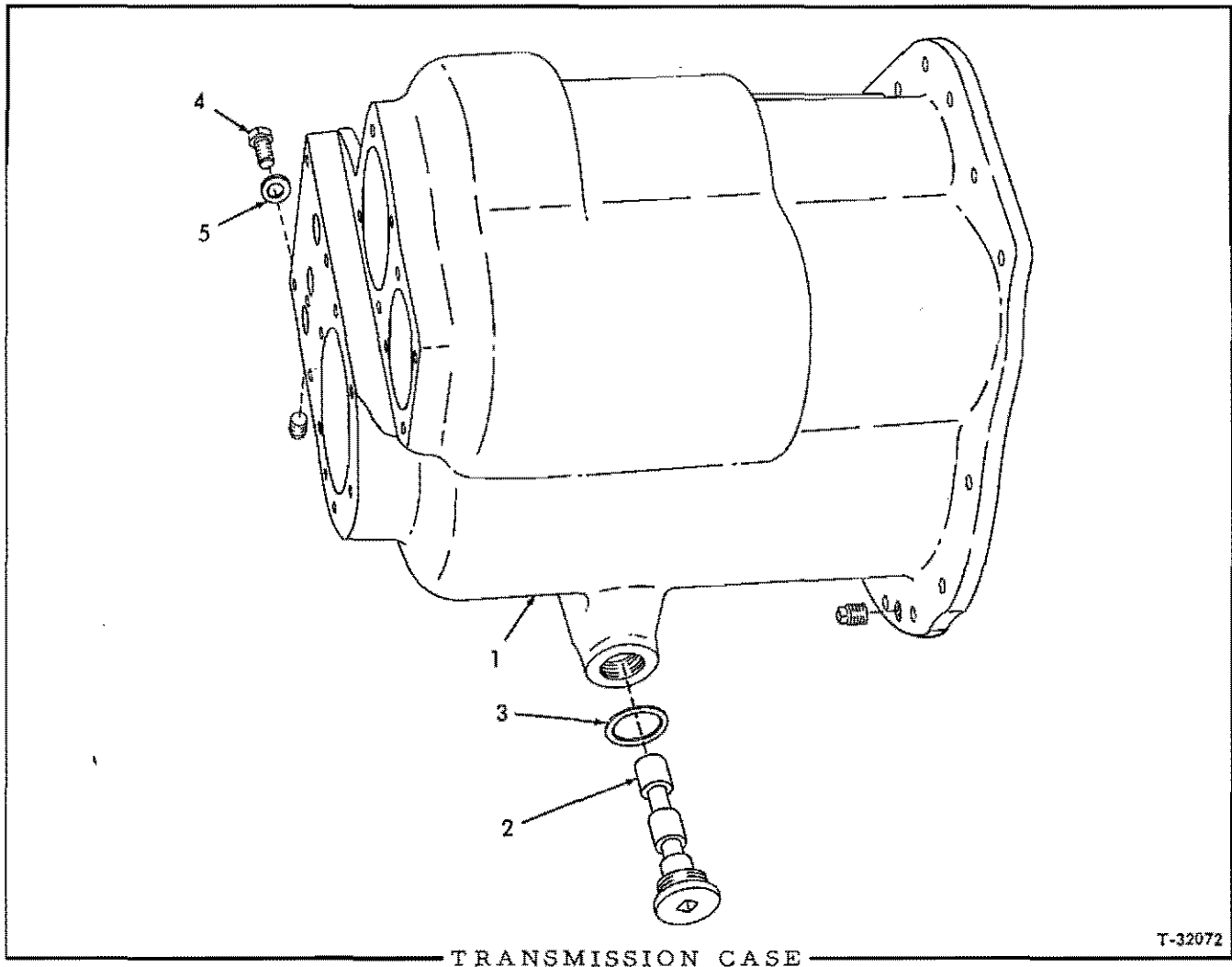
ITEM PART NO. QTY. DESCRIPTION

}	70083620	1	TRANSMISSION ASSEMBLY (Includes gears, shafts and forks) (Used prior to tractor #5043)
	70098942	1	TRANSMISSION ASSEMBLY (Includes gears, shafts and forks) (Used on tractors #5043 thru #5153)
	70623725	1	TRANSMISSION ASSEMBLY (Includes gears, shafts and forks) (Effective with tractor #5154)
2	70035018	14	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	14	LOCKWASHER, 1/2"
3	70623618	1	GASKET, case to steering clutch housing

(Continued)

TRANSMISSION ASSEMBLY (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
4	70078557	1	COVER, side
5	70035439	16	CAPSCREW, 3/8"NC x 1" } 3 less used on tractors
	70904206	16	LOCKWASHER, 3/8" } #5043 thru #5153
6	70069679	1	GASKET, side cover
7	70034265	1	CAP, oil level gauge rod (Used prior to tractor #1589 excluding #1563)
	70089827	1	CAP, oil level gauge rod (Effective with tractor #1589 including #1563)
8	70034304	1	ROD, gauge, transmission oil level
9	70034268	1	PLUG, transmission oil filling hole (Used prior to tractor #1589, excluding #1563)
	70089814	1	PLUG, transmission oil filling hole (Effective with tractor #1589, including #1563)
10	70034269	1	GASKET, oil level gauge rod cap
11	-----	-	See TRANSMISSION TOP SHAFT
12	-----	-	See TRANSMISSION INTERMEDIATE SHAFT
13	-----	-	See TRANSMISSION PINION SHAFT
14	-----	-	See FORWARD HIGH-LOW GEAR SHIFT
15	-----	-	See SPEED SELECTION GEAR SHIFT



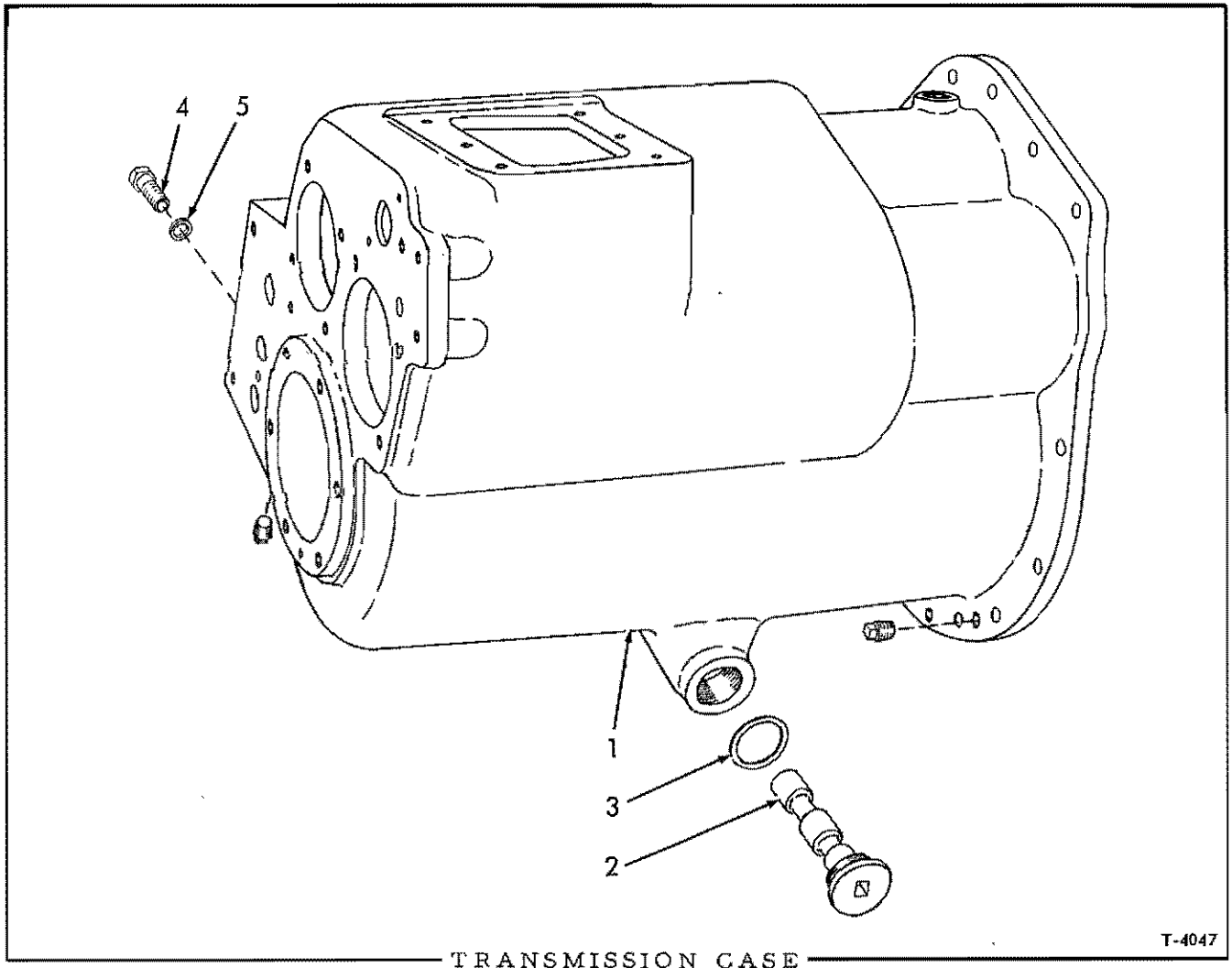
TRANSMISSION CASE

T-32072

USAGE: Tractors with torque converter

* Tractors prior to serial No. 5154, excluding #5104
 ** Tractors serial No. 5154 and up, including #5104

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	70623862	1	CASE, transmission
	70901653	2	PLUG, pipe, 3/8"NPT
	70623614	- 1	CASE, transmission
2	70067543	1 1	PLUG, drain
3	70035249	1 1	GASKET, drain plug
4	70035159	3 -	CAPSCREW, hole plugging (5/8"NF x 1")
5	70049918	3 -	WASHER, hole plugging cap screw (copper)



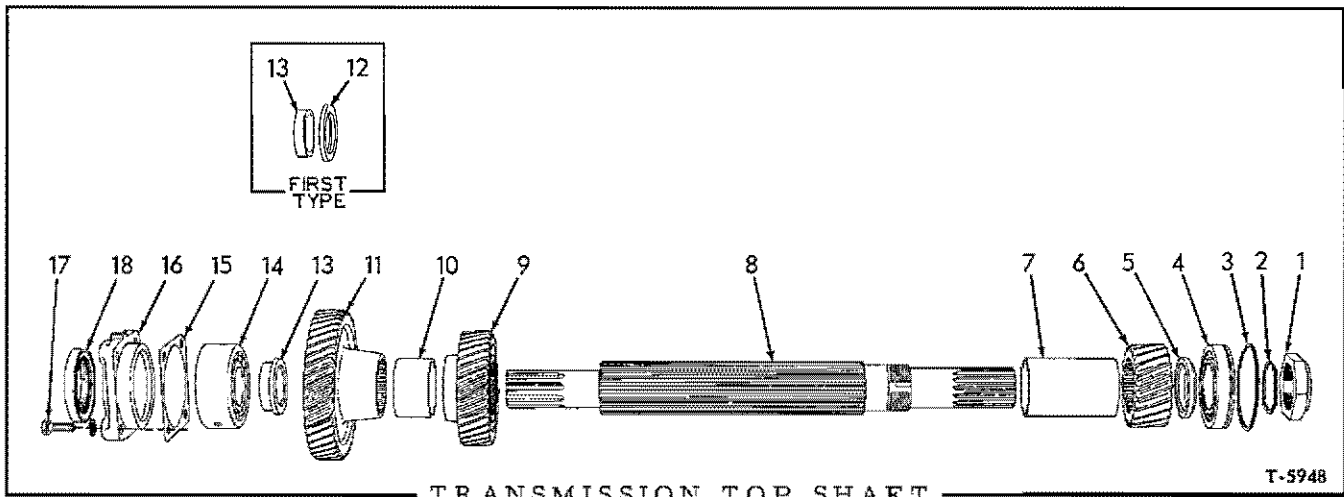
TRANSMISSION CASE

T-4047

USAGE: Tractors without torque converter

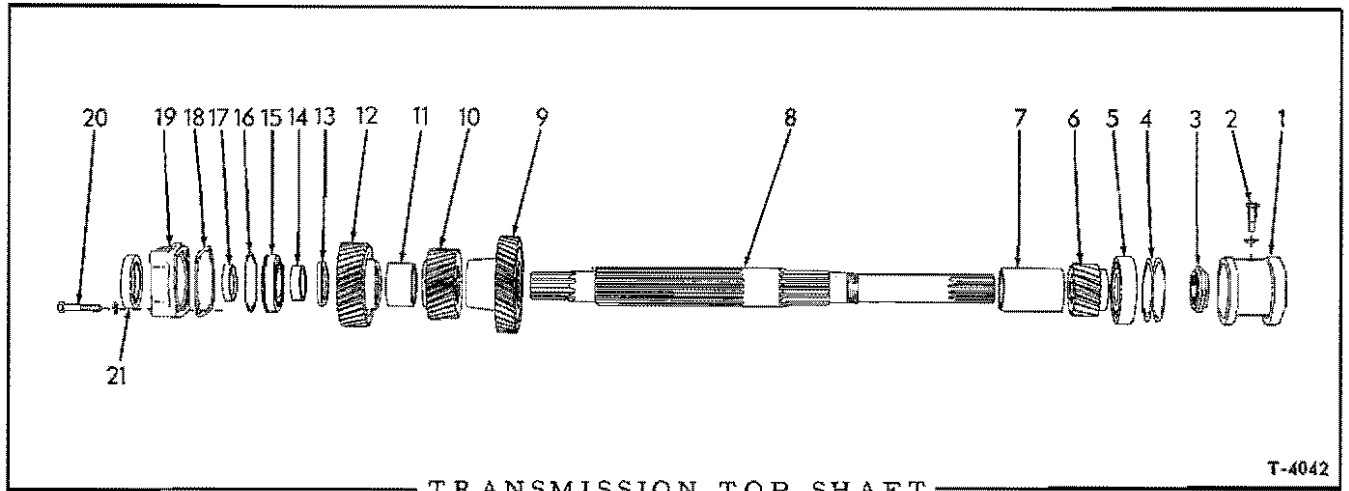
* Tractors prior to serial No. 5154
 ** Tractors serial No. 5154 and up

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70080097	1	-	CASE, transmission
	70901653	2	-	PLUG, pipe, 3/8"NPT
	70623610	-	1	CASE, transmission
2	70067543	1	1	PLUG, drain
3	70035249	1	1	GASKET, drain plug
4	70035159	3	-	CAPSCREW, hole plugging (5/8"NF x 1")
5	70049918	3	-	WASHER, hole plugging capscrow (copper)



USAGE: Tractors with torque converter

ITEM	PART NO.	QTY.	DESCRIPTION
1	70078862	1	NUT
2	70065512	1	RING, spacing, rear bearing
3	70040831	1	RING, snap, rear bearing
4	70058135	1	BEARING, roller, rear
5	70074818	1	SPACER, rear bearing
6	70073808	1	GEAR, 1st speed (22 teeth)
7	70069444	1	SLEEVE, spacing (4-9/16" long)
8	70621683	1	SHAFT
9	70073733	1	GEAR, 2nd speed and reverse (36 teeth)
10	70069443	1	SLEEVE, spacing (1-3/4" long)
11	70074838	1	GEAR, 3rd speed (46 teeth)
12	-----	1	WASHER, thrust (Used prior to tractor #2818)(Order 70093713)
13	-----	1	SLEEVE, spacing, front bearing (Used prior to tractor #2818) (Order 70093713)
	70093713	1	SPACER, front bearing (Effective with tractor #2818)
14	70074822	1	BEARING, ball, front
15	70074842	7	SHIM, front bearing retainer (.003" thick. Use as required)
16	70073761	1	RETAINER, front bearing (Used prior to tractor #5043)
	70629041	1	RETAINER, front bearing (Effective with tractor #5043)
17	70035061	4	CAPSCREW, 1/2"NC x 1-1/4"(Used prior to tractor #5043)
	70035236	4	CAPSCREW, 1/2"NC x 2-1/4"(Effective with tractor #5043)
	70904208	4	LOCKWASHER, 1/2"
18	70629040	1	SEAL, oil, front bearing retainer

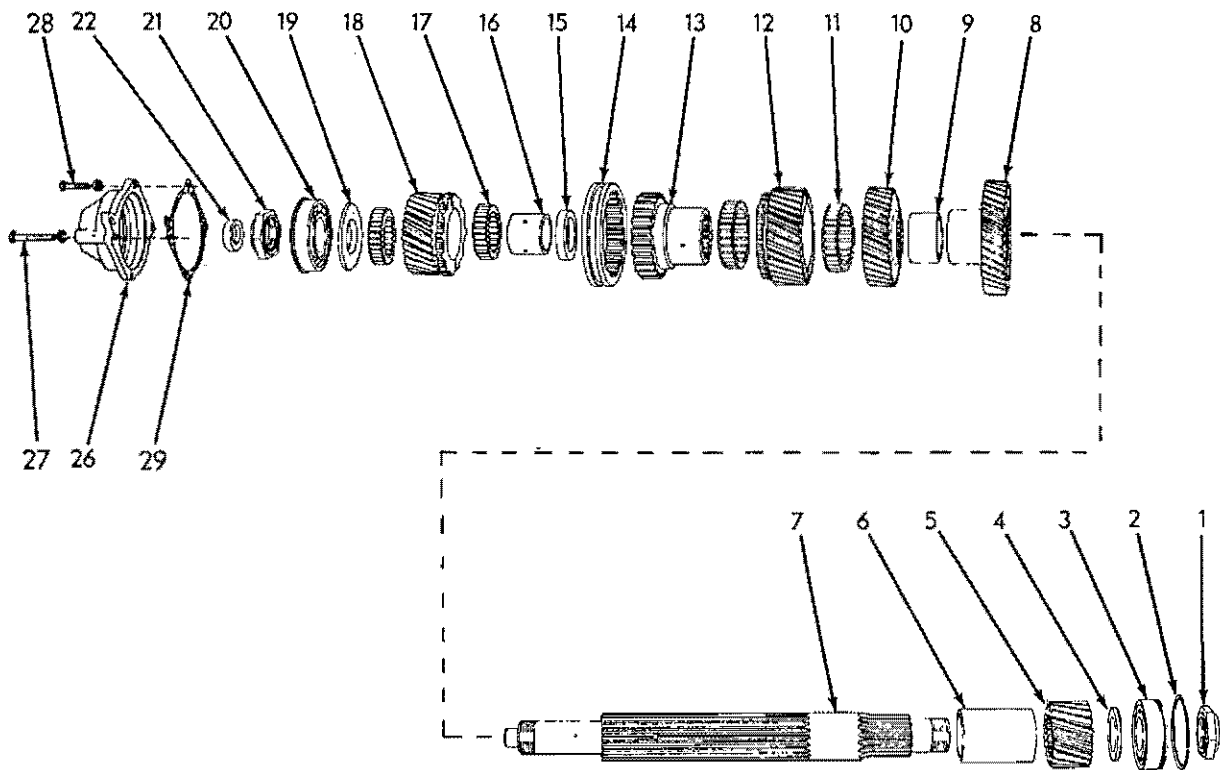


TRANSMISSION TOP SHAFT

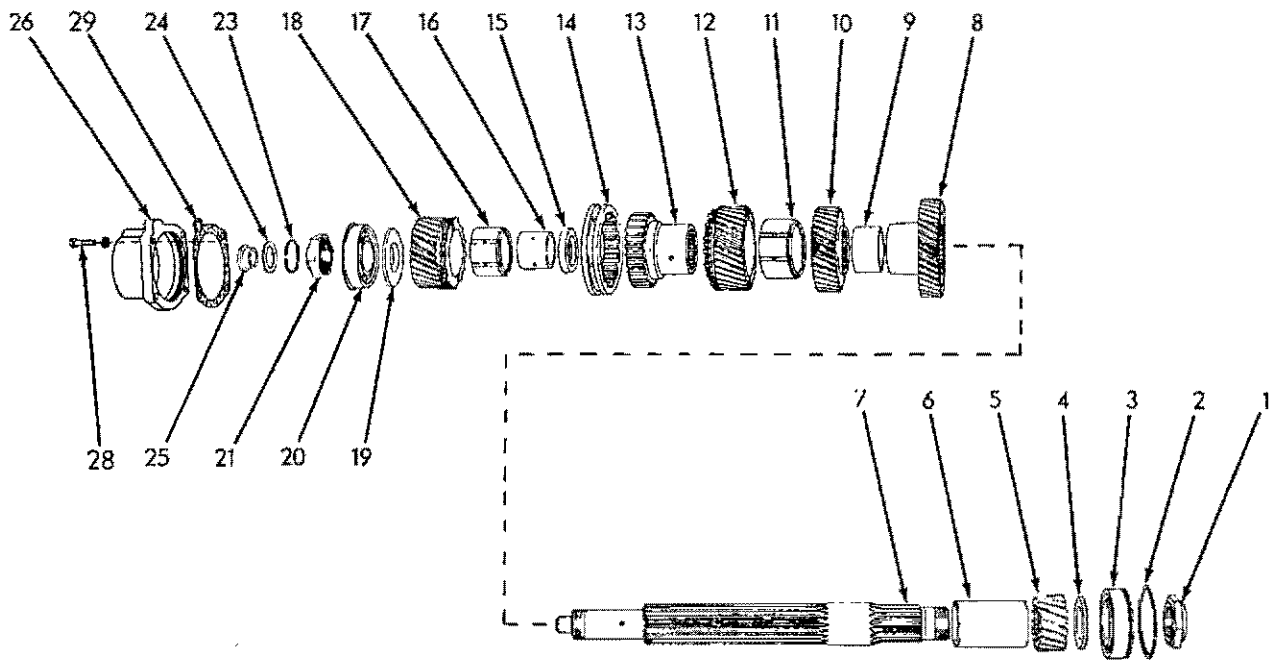
T-4042

USAGE: Tractors without torque converter

ITEM	PART NO.	QTY.	DESCRIPTION
1	70069369	1	SLEEVE, rear bearing
2	70621330	1	SCREW, sleeve locking
	70904209	1	LOCKWASHER, 5/8"
3	70078864	1	NUT, top shaft
4	70069452	4	SHIM, bearing adjusting (.005" thick. Use as required)
5	70069428	1	BEARING, ball, rear
6	70073771	1	GEAR, 1st reverse (18 teeth)
7	70069442	1	SLEEVE, spacing (4-1/8" long)
8	70621680	1	SHAFT, top
9	70069370	1	GEAR, 3rd reverse (40 teeth)
10	70069373	1	GEAR, low range (30 teeth)
11	70069443	1	SLEEVE, spacing (1-3/4" long)
12	70069359	1	GEAR, high range and 2nd reverse (36 teeth)
13	70069434	1	SPACER, high range and 2nd reverse gear (5/16" long)
14	70069436	1	SLEEVE, spacing, front bearing
15	70057281	1	BEARING, roller, front
16	70042121	1	RING, snap, front bearing
17	70069435	1	SPACER, front bearing (1/2" long)
18	70069451	1	GASKET, front bearing retainer
19	70069368	1	RETAINER, front bearing (Used prior to tractor #5043)
	70098922	1	RETAINER, front bearing (Effective with tractor #5043)
20	70028979	4	CAPSCREW, 1/2"NC x 2-1/2"
	70904208	4	LOCKWASHER, 1/2"
21	70629040	1	SEAL, oil, front bearing retainer



FIRST TYPE



SECOND TYPE

TRANSMISSION INTERMEDIATE SHAFT

T-30869

TRANSMISSION INTERMEDIATE SHAFT

USAGE: Tractors without torque converter

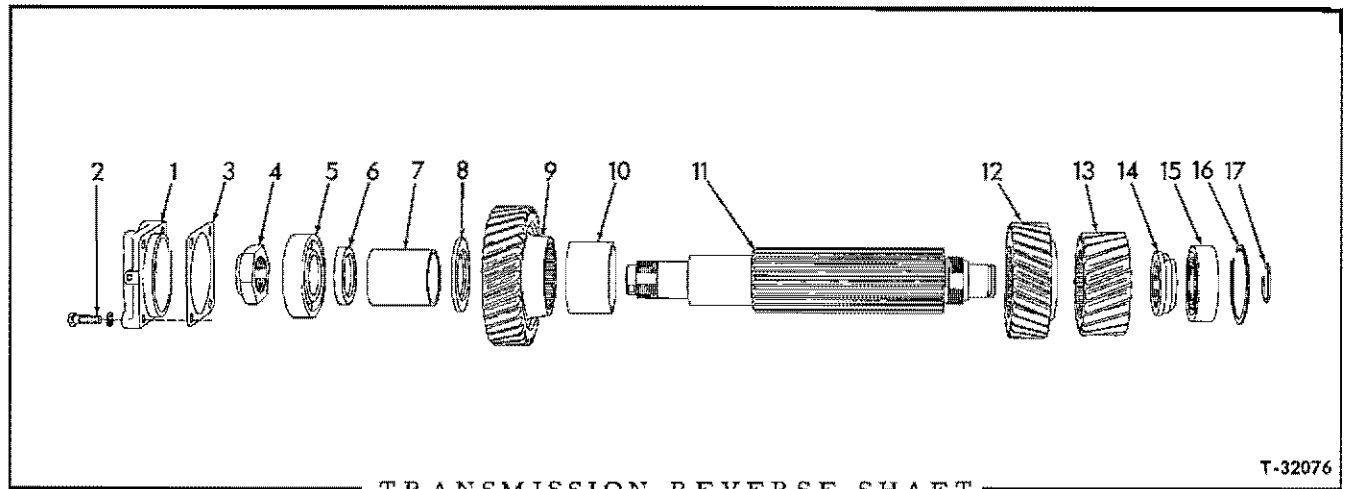
*Tractors prior to serial No. 5043
 **Tractors serial No. 5043 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	70083478	1 1	NUT, rear
2	70042121	1 1	RING, snap, rear bearing
3	70083476	1 1	BEARING, roller, rear
4	70083477	1 1	SPACER, rear bearing
5	70083479	1 1	GEAR, 1st and 2nd speeds (19 teeth)
6	70069442	1 1	SLEEVE, gear spacing (4-1/8" long)
7	70621684	1 -	SHAFT, intermediate
	70099066	- 1	SHAFT, intermediate
8	70069370	1 1	GEAR, 4th and 6th speeds (40 teeth)
9	70069443	1 1	SLEEVE, gear spacing (1-3/4" long)
10	70069378	1 1	GEAR, 3rd and 5th speeds (36 teeth)
11	70069382	2 -	BEARING, roller, low range gear
	70623667	- 1	BUSHING, low range gear
12	70069358	1 1	GEAR, low range (35 teeth)
13	70069423	1 1	HUB, low range gear
14	70069243	1 -	COLLAR, shifting (7/16" groove)(Original equipment)
	70099899	- 1	COLLAR, shifting (7/16" groove)(Original equipment)
	70647321	1 1	COLLAR, shifting (5/8" groove)(Furnished in service replacement transmission)
15	70069449	1 1	SPACER, high range gear bearing
16	70069390	1 1	RACE, high range gear bearing
17	70069383	2 -	BEARING, roller, high range gear
	70623335	- 1	BUSHING, high range gear
18	70069357	1 1	GEAR, high range (28 teeth)
19	70041017	1 1	WASHER, spacing, front bearing
20	70042852	1 1	BEARING, ball, front (Includes snap ring)
21	70078861	1 1	NUT, front
22	70044741	1 -	SEAL, oil retaining

(Continued)

TRANSMISSION INTERMEDIATE SHAFT (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
23	70621446	-	1	RING, snap
24	70621332	-	1	RING, oil sealing, outer
25	70621333	-	1	RING, oil sealing, inner
26	70069367	1	-	COVER, front bearing
	70623333	-	1	RETAINER, front bearing (Used prior to tractor #5154)
	70623703	-	1	RETAINER, front bearing (Effective with tractor #5154)
27	70041877	1	-	CAPSCREW, 1/2"NC x 3"
28	70035190	3	4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4	4	LOCKWASHER, 1/2"
29	70069437	1	1	GASKET, bearing retainer (Used prior to tractor #5154)
	70629734	-	1	GASKET, bearing retainer (Effective with tractor #5154)

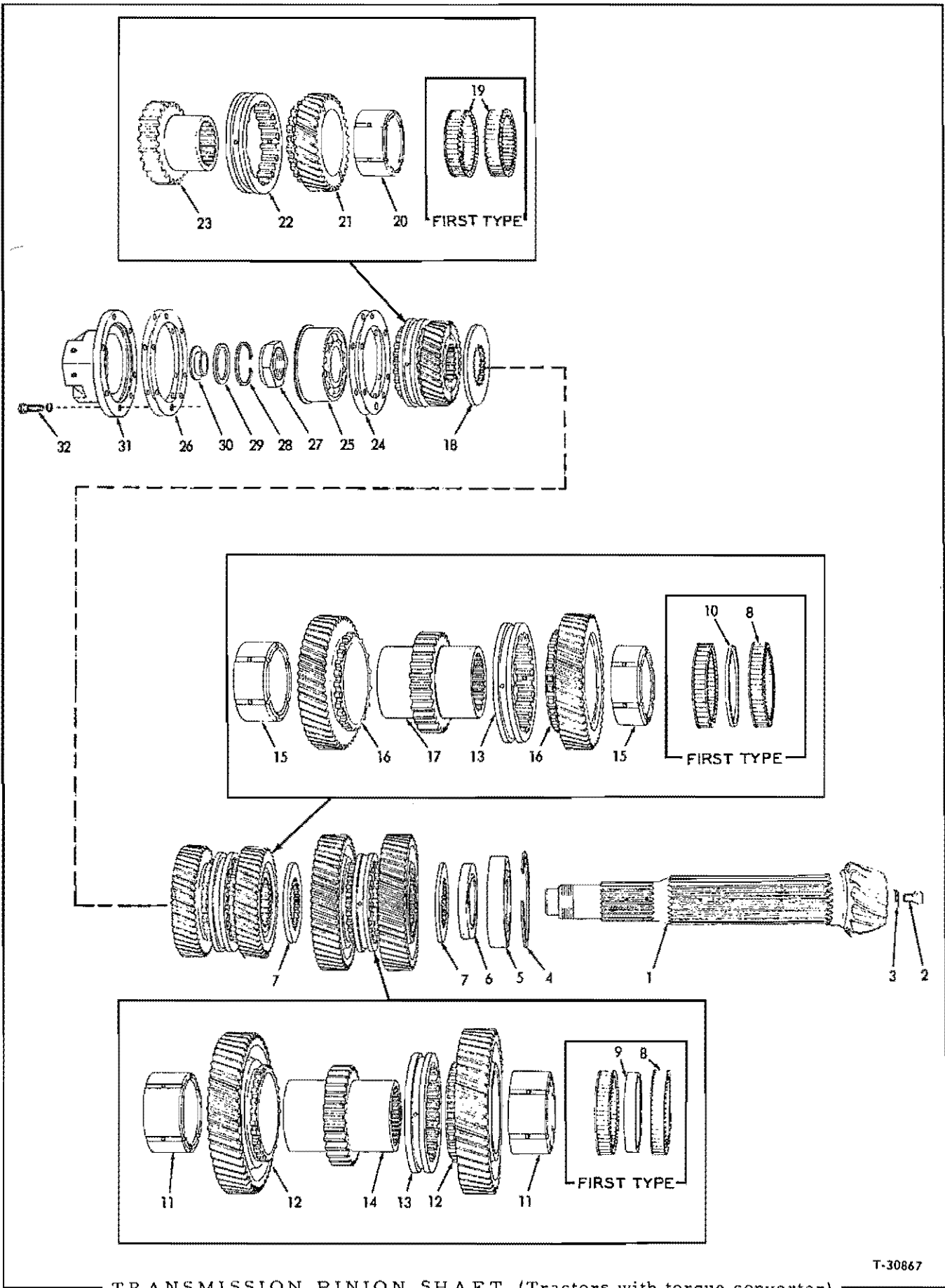


TRANSMISSION REVERSE SHAFT

T-32076

USAGE: Tractors with torque converter

ITEM	PART NO.	QTY.	DESCRIPTION
1	70073760	1	RETAINER, front bearing (Used prior to tractor #5043)
	70098968	1	RETAINER, front bearing (Used on tractors #5043 thru #5153, excluding #5104)
	70623729	1	RETAINER, front bearing (Effective with tractor #5154, including #5104)
2	70035236	4	CAPSCREW, 1/2"NC x 1-3/4" (Used prior to tractor #5043)
	70035712	4	CAPSCREW, 1/2"NC x 2-1/4" (Effective with tractor #5043)
	70904208	4	LOCKWASHER, 1/2"
3	70074841	7	SHIM, adjusting (.003" thick. Use as required)
4	70079234	1	NUT, front
5	70090645	1	BEARING, ball, front
6	70074817	1	SPACER, front bearing
7	70074814	1	SLEEVE, gear retaining (2-1/2" long)
8	70074815	1	WASHER, gear retaining
9	70073733	1	GEAR, 2nd reverse (36 teeth)
10	70069443	1	SLEEVE, gear spacing (1-3/4" long)
11	70621682	1	SHAFT, reverse (Used prior to tractor #5043)
	70098958	1	SHAFT, reverse (Effective with tractor #5043)
12	70073738	1	GEAR, reverse (28 teeth)
13	70073808	1	GEAR, 1st reverse (22 teeth)
14	70079256	1	NUT, rear
15	70052049	1	BEARING, roller, rear
16	70052374	1	RING, snap, rear bearing
17	70052225	1	RING, snap, reverse shaft



TRANSMISSION PINION SHAFT (Tractors with torque converter)

T-30867

TRANSMISSION PINION SHAFT

USAGE: Tractors with torque converter

*Tractors prior to serial No. 5043
 **Tractors serial No. 5043 and up

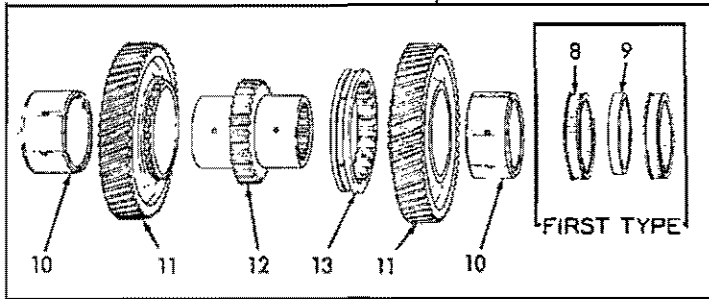
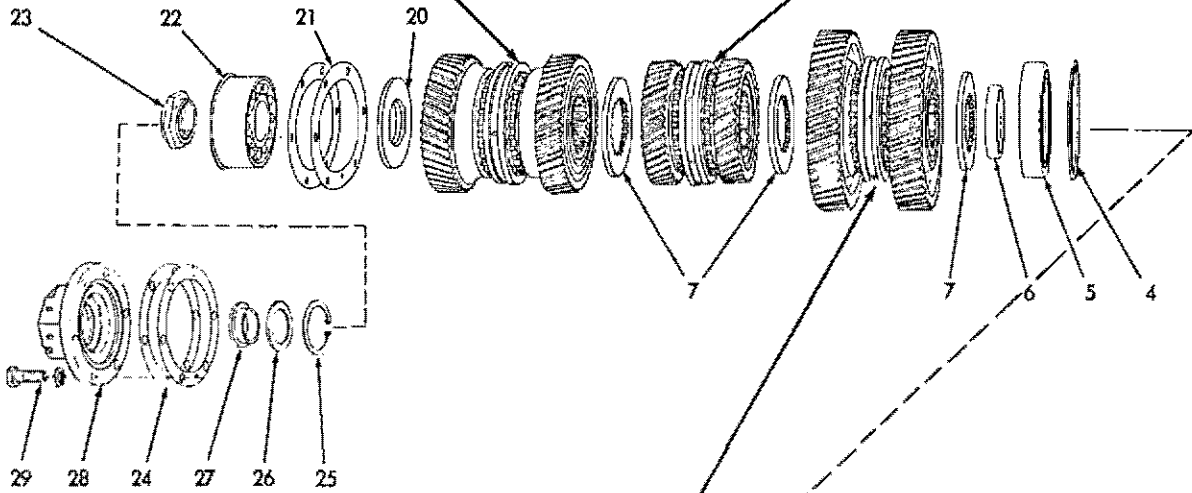
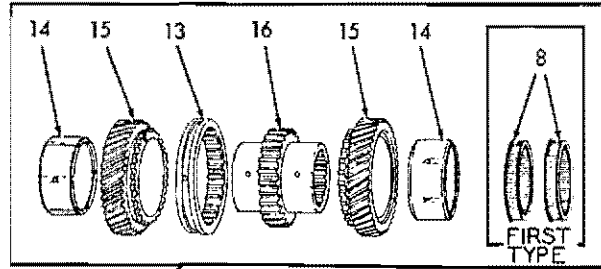
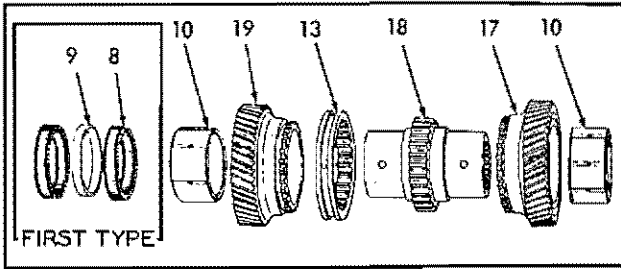
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70095784	1	-	PINION, bevel (14 teeth)(Used prior to tractor #4834)
	70095544	1	-	PINION, bevel (12 teeth)(Effective with tractor #4834)
	70098961	-	1	PINION, bevel (12 teeth)
2	70098996	-	1	PLUG, pinion oil hole
3	70098997	-	1	LOCK, pinion plug
4	70059589	1	1	RING, snap, rear bearing
5	70059328	1	1	BEARING, roller, rear
6	70069427	1	1	SPACER, rear bearing
7	70069386	2	2	WASHER, gear retaining
8	70069381	8	-	BEARING, roller, pinion shaft gears
9	70069450	2	-	SPACER, gear bearings (5/8" wide)
10	70075398	2	-	SPACER, gear bearings (7/32" wide)
11	70623334	-	2	BUSHING, 1st speed gear
12	70081202	2	2	GEAR, 1st reverse and 1st speed (51 teeth)
13	70069400	2	-	COLLAR, shifting
	70099898	-	2	COLLAR, shifting (7/16" groove)(Original equipment)
	70650745	-	2	COLLAR, shifting (5/8" groove)(Service replacement transmission)
14	70069453	1	-	HUB, 1st reverse and 1st speed gear
	70098957	-	1	HUB, 1st reverse and 1st speed gears
15	70623338	-	2	BUSHING, 2nd speed gear
16	70081200	2	2	GEAR, 2nd reverse and 2nd speed (48 teeth)
17	70081199	1	-	HUB, 2nd reverse and 2nd speed gears
	70098956	-	1	HUB, 2nd reverse and 2nd speed gears
18	70074824	1	1	WASHER, gear retaining
19	70069382	2	-	BEARING, roller, 3rd speed gear
20	70623667	-	1	BUSHING, 3rd speed gear
21	70081201	1	1	GEAR, 3rd speed (35 teeth)
22	70069243	1	-	COLLAR, shifting, 3rd speed
	70099899	-	1	COLLAR, shifting, 3rd speed (7/16" groove) (Original equipment)
	70647321	-	1	COLLAR, shifting, 3rd speed (5/8" groove) (Service replacement transmission)

(Continued)

TRANSMISSION PINION SHAFT (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
23	70081267	1	-	HUB, 3rd speed gear
	70098955	-	1	HUB, 3rd speed gear
24	70069447	4	4	SHIM, adjusting, pinion depth (.005" thick. Use as required)
	70069448	6	6	SHIM, adjusting, pinion depth (.010" thick. Use as required)
25	70048698	1	1	BEARING, ball, front (Includes snap ring)
26	70069445	7	7	SHIM, cover adjusting (.007" thick. Use as required)
	70069446	7	7	SHIM, cover adjusting (.005" thick. Use as required)
27	70078862	1	1	NUT, bevel pinion (Also see ODOMETER for special nut)
28	70621445	-	1	RING, snap
29	70621334	-	1	RING, oil sealing, outer
30	70621335	-	1	RING, oil sealing, inner
31	70069366	1	-	COVER, front bearing (Also see ODOMETER for special cover)
	70098923	-	1	COVER, front bearing (Used prior to tractor #5154, excluding #5104) (Also see ODOMETER for special cover)
	70623704	-	1	RETAINER, front bearing (Effective with tractor #5154, including #5104)
32	70035190	6	6	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	6	6	LOCKWASHER, 1/2"

MEMO



TRANSMISSION PINION SHAFT (Tractors without torque converter)

T-30868

TRANSMISSION PINION SHAFT

USAGE: Tractors without torque converter

*Tractors prior to serial No. 5043

**Tractors serial No. 5043 and up

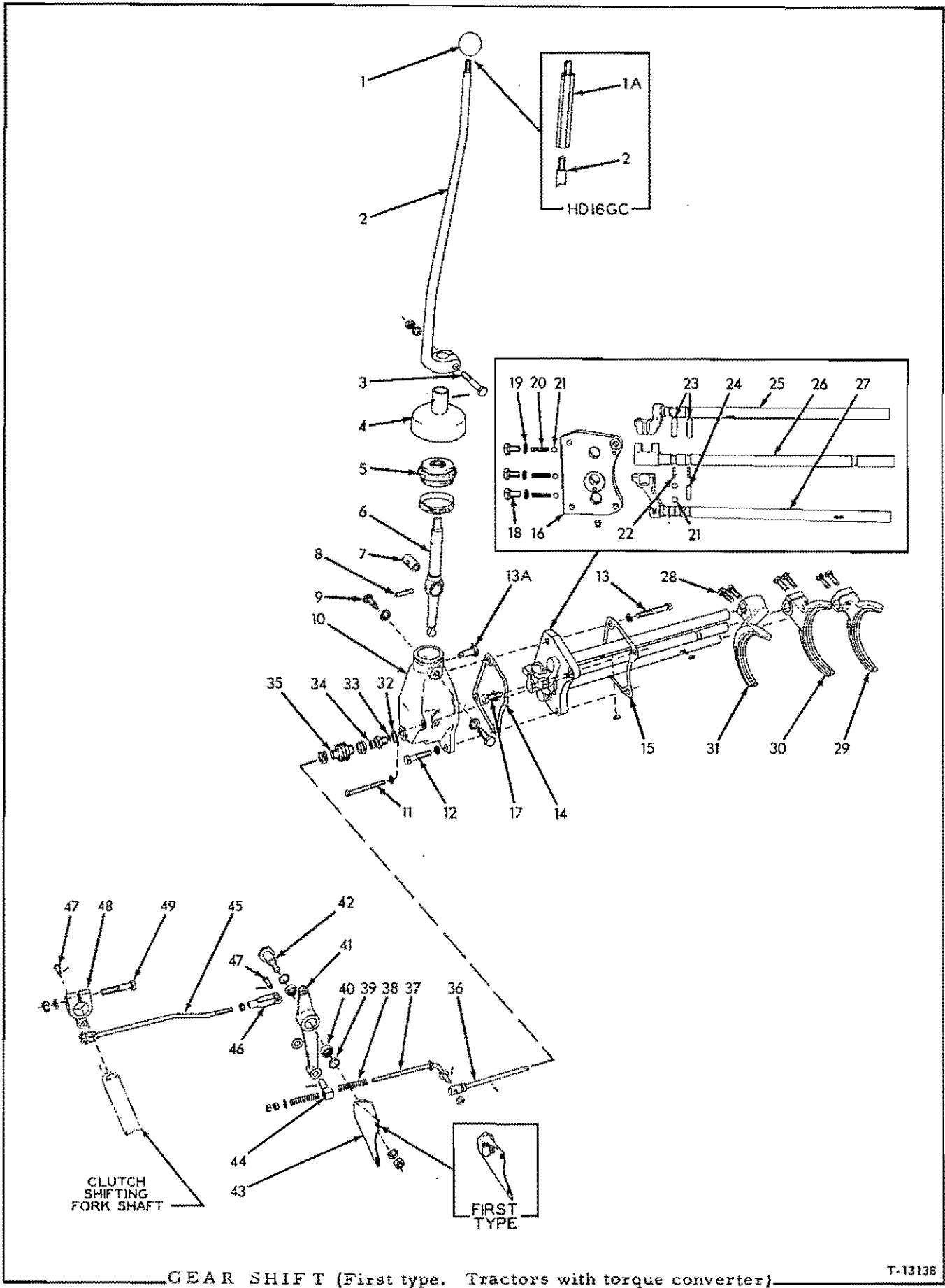
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70095804	1	-	PINION, bevel (11 teeth)
	70099074	-	1	PINION, bevel (11 teeth)
2	70098996	-	1	PLUG, pinion oil hole
3	70098997	-	1	LOCK, pinion plug
4	70059589	1	1	RING, snap, rear bearing
5	70059328	1	1	BEARING, roller, rear
6	70069427	1	1	SPACER, rear bearing
7	70069386	3	3	WASHER, gear spacing
8	70069381	12	-	BEARING, roller, pinion shaft gears
9	70069450	4	-	SPACER, gear bearings
10	70623334	-	4	BUSHING, pinion shaft gears (2-7/16" wide)
11	70073777	2	2	GEAR, 1st reverse and 1st and 2nd speed (54 teeth)
12	70069453	1	-	HUB, 1st reverse and 1st and 2nd speed gears
	70098957	-	1	HUB, 1st reverse and 1st and 2nd speed gears
13	70069400	3	-	COLLAR, shifting
	70099898	-	3	COLLAR, shifting (7/16" groove)(Original equip- ment)
	70650745	-	3	COLLAR, shifting (5/8" groove)(Service replace- ment transmission)
14	70623337	-	2	BUSHING, pinion shaft gears (1-13/16" wide)
15	70069377	2	2	GEAR, 3rd reverse and 4th and 6th speeds (41 teeth)
16	70069379	1	-	HUB, 3rd reverse and 4th and 6th speed gears
	70099073	-	1	HUB, 3rd reverse and 4th and 6th speed gears
17	70069374	1	1	GEAR, 3rd and 5th speed (48 teeth)
18	70069380	1	-	HUB, 2nd reverse and 3rd and 5th speed gears
	70099060	-	1	HUB, 2nd reverse and 3rd and 5th speed gears
19	70649661	1	1	GEAR, 2nd reverse (48 teeth)
20	70069425	1	1	WASHER, spacing, front bearing
21	70069447	4	4	SHIM, adjusting, pinion depth (.005" thick. Use as required)
	70069448	6	6	SHIM, adjusting, pinion depth (.010" thick. Use as required)

(Continued)

TRANSMISSION PINION SHAFT (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
22	70048698	1	1	BEARING, ball, front (Includes snap ring)
23	70078862	1	1	NUT, bevel pinion (Also see ODOMETER for special nut)
24	70069445	7	7	SHIM, cover adjusting (.007" thick. Use as required)
	70069446	3	3	SHIM, cover adjusting (.005" thick. Use as required)
25	70621445	-	1	RING, snap
26	70621334	-	1	RING, oil sealing, outer
27	70621335	-	1	RING, oil sealing, inner
28	70069366	1	-	COVER, front bearing (Also see ODOMETER for special cover)
	70098923	-	1	COVER, front bearing (Used prior to tractor #5154)(Also see ODOMETER for special cover)
	70623704	-	1	RETAINER, front bearing (Effective with tractor #5154)
29	70035190	6	6	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	6	6	LOCKWASHER, 1/2"

MEMO



GEAR SHIFT (First type. Tractors with torque converter)

T-13138

GEAR SHIFT

USAGE: Tractors with torque converters prior to serial No. 5043.

ITEM PART NO. QTY. DESCRIPTION

NOTE: See FLOOR for shift lever guide plate

1	70091862	1	KNOB, extension lever
1A	70090869	1	EXTENSION, lever (Model HD16GC only)
2	70059332	1	LEVER, extension (For all tractors except those equipped with Bucket Seat)
	70095220	1	LEVER, extension (For tractors equipped with Bucket Seat)
3	70035892	1	CAPSCREW, 1/2"NF x 2-1/2"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
4	70081343	1	GUARD, shift lever boot
	70915989	1	PIN, roll, 3/16" x 1-3/8"
5	70078742	1	BOOT, shift lever
	70916995	1	CLAMP, hose, 3" I.D.
6	70083615	1	LEVER, shift
7	70622080	1	SHAFT, shift lever pivot
8	70915500	1	PIN, roll, 3/8" x 1-3/4"
9	70621330	2	SCREW, set, shift lever pivot shaft
	70904209	2	LOCKWASHER, 5/8"
10	70089829	1	HOUSING, shift lever (For tractors prior to #1584 also order 1 BREATHER 70051447)
11	70053617	1	CAPSCREW, 3/8"NF x 4-3/4"
	70904206	1	LOCKWASHER, 3/8"
12	70035712	2	CAPSCREW, 1/2"NC x 2-1/4"
13	70061631	1	CAPSCREW, 1/2"NC x 3-1/2"
	70904208	3	LOCKWASHER, 1/2"
13A	70051447	1	BREATHER, shift lever housing (Used on tractors #1584 thru approx. #2726)
	70901651	1	PLUG, pipe, 1/8"NPT (Effective with tractor approx. #2727)
14	70085877	1	GASKET, shift lever housing
15	70085878	1	GASKET, gear shift lock plate
16	70083573	1	PLATE, gear shift lock
	70901653	1	PLUG, pipe, 3/8"NPT
17	70035236	1	CAPSCREW, 1/2"NC x 1-3/4"
	70904208	1	LOCKWASHER, 1/2"
18	70035159	3	CAPSCREW, interlock spring (5/8"NC x 1")
19	70049918	3	WASHER, interlock spring cap screw (copper)
20	70096922	3	SPRING, shifting shaft interlock

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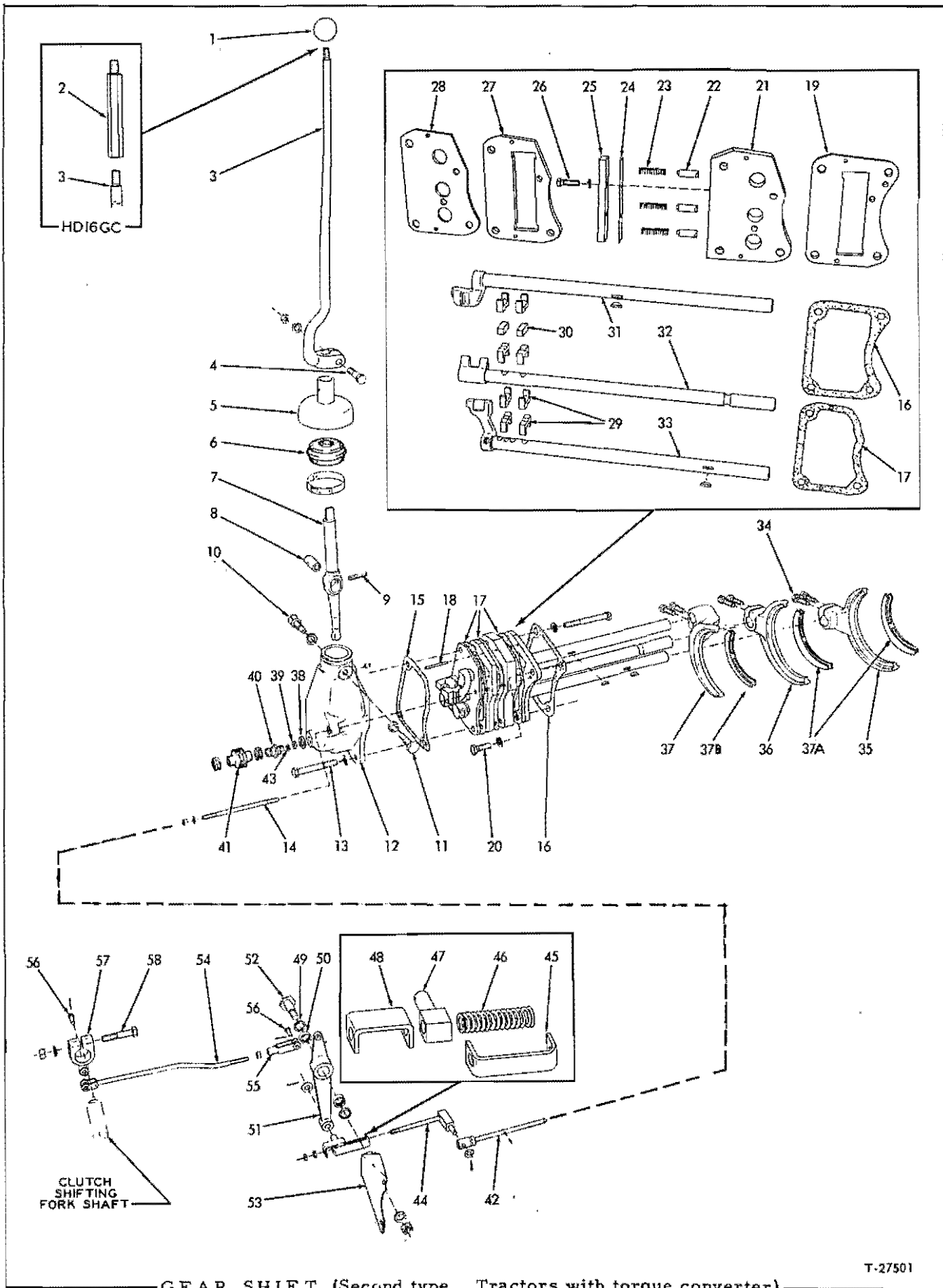
GEAR SHIFT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
21	70905362	5	BALL, steel, 1/2" diam.
22	70055349	2	PIN, interlock (1/4" x 7/8")(1 used prior to tractor #914)
23	70905362	6	BALL, steel, 1/2" diam. (Used prior to tractor #2996. 3 less used prior to tractor #914. Order PIN 70096808)
	70096808	2	PIN, interlock (1/2" x 1-1/2")(Effective with tractor #2996)
24	70905362	2	BALL, steel, 1/2" diam. (Used on tractors #915 thru #2995. Order PIN 70096809)
	70096809	1	PIN, interlock (1/2" x 1")(Effective with tractor #2996)
25	70088938	1	SHAFT, shifting fork, upper
	70911233	1	KEY, #11 woodruff, 3/16" x 7/8"
26	70088936	1	SHAFT, shifting fork, center
27	70088934	1	SHAFT, shifting fork, lower
	70911233	1	KEY #11 woodruff, 3/16" x 7/8"
28	70035018	6	CAPSCREW, shifting fork (1/2"NF x 1-1/2")
29	70080867	1	FORK, gear shifting, rear
30	70080882	1	FORK, gear shifting, center
31	70080939	1	FORK, gear shifting, front
32	70050267	1	WASHER, plunger sleeve (copper)
33	70078402	1	WASHER, shifting lock plunger
34	70076846	1	SLEEVE, shifting lock plunger (15/32" hole)(Used prior to tractor #4001)
	70620975	1	SLEEVE, shifting lock plunger (13/32" hole)(Effective with tractor #4001)
35	70080166	1	BOOT, locking plunger
	70916897	2	CLAMP, hose, 1" diam.
36	70083598	1	PLUNGER, shifting lock
	70916146	1	PIN, roll, 3/32" x 1/2"
37	70081529	1	ROD, shifting lock plunger
	70911115	2	WASHER, plain, SAE std., 3/8"
	70900942	1	PIN, cotter, 3/32" x 5/8"
	70911041	2	NUT, 3/8"NF
38	70035910	2	SPRING, plunger rod
39	70052662	2	SEAL, dust, shifting lock lever
40	70052643	2	BEARING, needle, shifting lock lever
41	70081505	1	LEVER, shifting lock
42	70075762	1	STUD, pivot, shifting lock lever
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF

(Continued)

GEAR SHIFT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
43	70091678	1	BRACKET, shifting lock lever (Used prior to tractor #2236)
	70092042	1	BRACKET, shifting lock lever (Effective with tractor #2236)
44	70050265	1	SWIVEL, shifting lock plunger rod
	70910244	1	WASHER, plain, SAE std., 1/2"
	70900805	1	PIN, cotter, 1/8" x 3/4"
45	70081545	1	ROD, shifting lock
	70911041	1	NUT, 3/8"NF
46	70628736	1	YOKE, shifting lock rod
47	70078810	2	PIN, yoke
	70900942	2	PIN, cotter, 3/32" x 5/8"
48	70075760	1	LEVER, shifting lock
49	70035892	1	CAPSCREW, 1/2"NF x 2-1/2"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF



GEAR SHIFT

USAGE: Tractors with torque converter effective with serial No. 5043.

ITEM	PART NO.	QTY.	DESCRIPTION
			<u>NOTE:</u> See FLOOR for shift lever guide plate
1	70091862	1	KNOB, extension lever
2	70090869	1	EXTENSION, lever (Model HD16GC)
3	70620228	1	LEVER, extension (For Model HD16FC; also Models HD16AC, DC except when equipped with first type Bucket Seat)
	70621376	1	LEVER, extension (For Models HD16AC, DC when equipped with first type Bucket Seat)
	70629730	1	LEVER, extension (Model HD16GC)
4	70035892	1	CAPSCREW, 1/2"NF x 2-1/2"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
5	70081343	1	GUARD, shift lever boot
	70915989	1	PIN, roll, 3/16" x 1-3/8"
6	70078742	1	BOOT, shift lever
	70916995	1	CLAMP, hose, 3" I.D.
7	70083615	1	LEVER, shift
8	70622080	1	SHAFT, shift lever pivot
9	70915500	1	PIN, roll (3/8" x 1-3/4")
10	70620313	1	SCREW, shift lever pivot shaft, outer
	70904209	1	LOCKWASHER, 5/8"
11	70621330	1	SCREW, shift lever pivot shaft, inner
	70904209	1	LOCKWASHER, 5/8"
12	70089829	1	HOUSING, shift lever
	70901651	1	PLUG, pipe, 1/8"NPT
	70910257	1	CAPSCREW, 1/2"NC x 4-3/4"
	70045253	2	CAPSCREW, 1/2"NC x 3-3/4"
13	70904208	3	LOCKWASHER, 1/2"
	70621262	1	STUD, shift lever housing
	70911041	1	NUT, 3/8"NF
14	70904206	1	LOCKWASHER, 3/8"
	70085877	1	GASKET, shift lever housing
15	70085878	1	GASKET, shaft rear locking plate
16	70620980	3	GASKET, shaft locking plates
17	70620981	2	PIN, dowel, shaft locking plates

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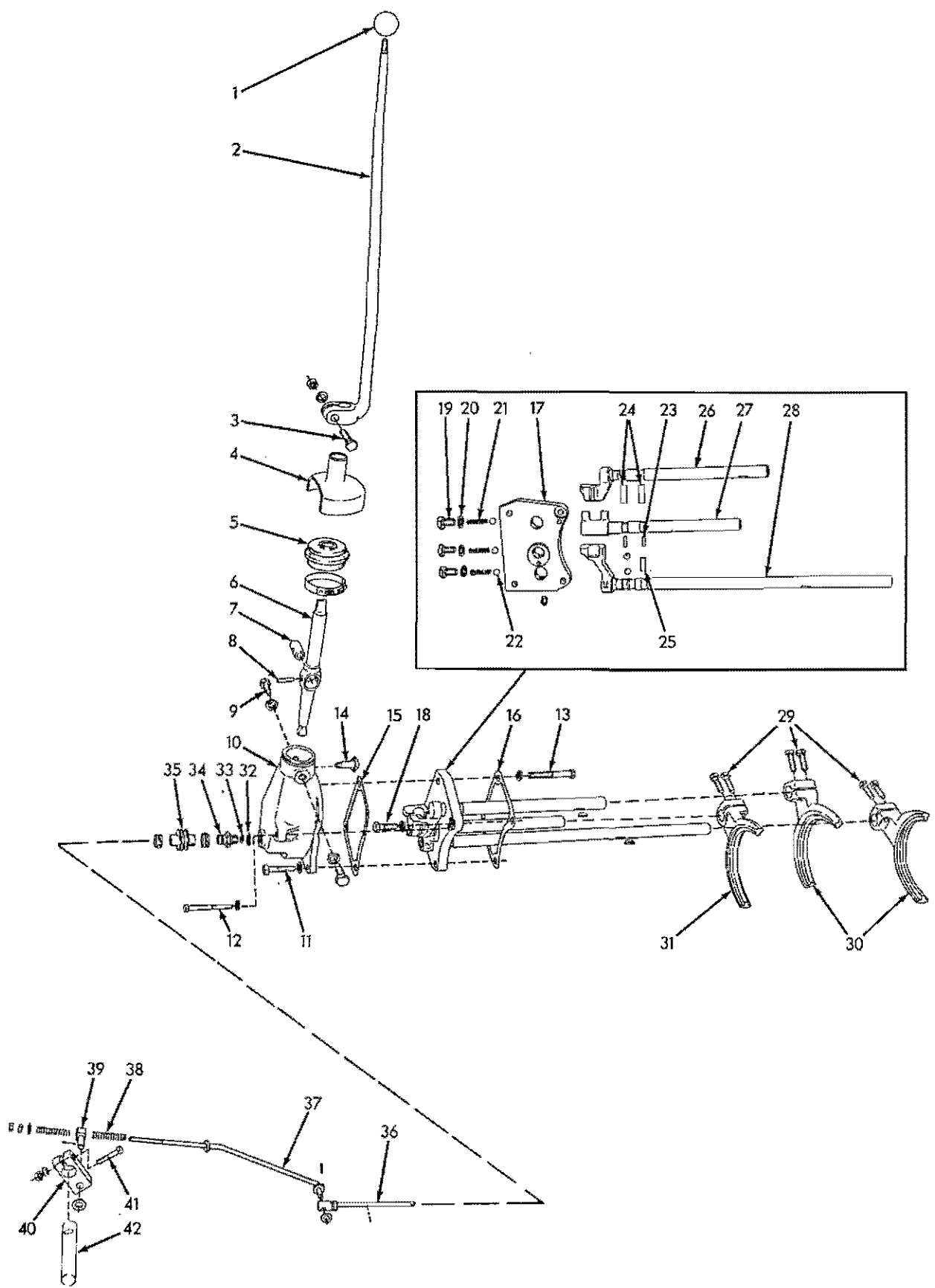
GEAR SHIFT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
19	70623902	1	PLATE, shaft locking, rear
20	70035190	1	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	1	LOCKWASHER, 1/2"
21	70623903	1	PLATE, shifting shaft plunger
22	70641356	3	PLUNGER, shifting shaft interlock
23	70096922	3	SPRING, shifting shaft interlock
24	70620974	1	GASKET, plunger retaining bar
25	70620982	1	BAR, plunger retaining
26	70013058	2	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	2	LOCKWASHER, 3/8"
27	70623904	1	PLATE, shaft locking, front
28	70620971	1	PLATE, shaft guiding (Used prior to tractor #5154, excluding #5104)
	70623905	1	PLATE, shaft guiding (Effective with tractor #5154, including #5104)
29	70638953	8	DETENT, shifting shaft interlock
30	70620964	2	BLOCK, spacing, interlock detent
31	70620240	1	SHAFT, shifting fork, upper
	70911233	1	KEY, #11 woodruff, 3/16" x 7/8"
32	70620238	1	SHAFT, shifting fork, center
33	70620242	1	SHAFT, shifting fork, lower
	70911233	1	KEY, #11 woodruff, 3/16" x 7/8"
34	70035018	6	CAPSCREW, shifting fork (1/2"NF x 1-1/2")
35	70080867	1	FORK, gear shifting, rear (Original equipment)
	70650743	1	FORK, gear shifting, rear (Service replacement transmission)
36	70080882	1	FORK, gear shifting, center (Original equipment)
	70650742	1	FORK, gear shifting, center (Service replacement transmission)
37	70080939	1	FORK, gear shifting, front (Original equipment)
	70650741	1	FORK, gear shifting, front (Service replacement transmission)
37A	70667554	2	COLLAR, wear, rear and center shifting forks, (service replacement transmission only)
37B	70667553	1	COLLAR, wear, front shifting fork (Service replacement transmission only)
38	70050267	1	WASHER, plunger sleeve (copper)
39	70078402	1	WASHER, shifting lock plunger
40	70620975	1	SLEEVE, shifting lock plunger (Used prior to tractor #5707)
	70635081	1	SLEEVE, shifting lock plunger (Effective with tractor #5707)
	70651580	1	SLEEVE, shifting lock plunger (Furnished in service replacement transmission only. Also see item 43)
41	70080166	1	BOOT, locking plunger (Used prior to tractor #5707)
	70635082	1	BOOT, locking plunger (Effective with tractor #5707)
	70916897	2	CLAMP, hose, 1" diam.
42	70638094	1	PLUNGER, shifting lock (If for tractors prior to #5707 also order 1 Sleeve 70635081 and 1 O-Ring 70635085)
	70916146	1	PIN, roll, 3/32" x 1/2"

(Continued)

GEAR SHIFT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
43	70923560	1	O-RING, shifting lock plunger (Effective with tractor #5707)
	70651725	1	SEAL, shifting lock plunger (Furnished in service replacement transmission only. Also see item 40)
44	70620270	1	ROD, shifting lock plunger
	70911115	1	WASHER, plain, SAE std., 3/8"
	70900942	1	PIN, cotter, 3/32" x 5/8"
	70911048	2	NUT, jam, 3/8"NF
45	70620267	1	BRACKET, plunger rod spring, rear
46	70035910	1	SPRING, plunger rod
47	70050265	1	SWIVEL, shifting lock plunger rod
	70910244	1	WASHER, plain, SAE std., 1/2"
	70900805	1	PIN, cotter, 1/8" x 3/4"
48	70620266	1	BRACKET, plunger rod spring, front
49	70052662	2	SEAL, dust, shifting lock lever
50	70052643	2	BEARING, needle, shifting lock lever
51	70081505	1	LEVER, shifting lock
52	70075762	1	STUD, pivot, shifting lock lever
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
53	70092042	1	BRACKET, shifting lock lever
54	70620243	1	ROD, shifting lock
	70911041	1	NUT, 3/8"NF
55	70628736	1	YOKE, shifting lock rod
56	70078810	2	PIN, yoke
	70900942	2	PIN, cotter, 3/32" x 5/8"
57	70075760	1	LEVER, shifting lock
58	70035892	1	CAPSCREW, 1/2"NF x 2-1/2"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF



T-13134

SPEED SELECTION GEAR SHIFT (First type. Tractors without torque converter)

SPEED SELECTION GEAR SHIFT

USAGE: Tractors without torque converter prior to serial No. 5043

ITEM PART NO. QTY. DESCRIPTION

NOTE: See FLOOR for shift lever guide plate

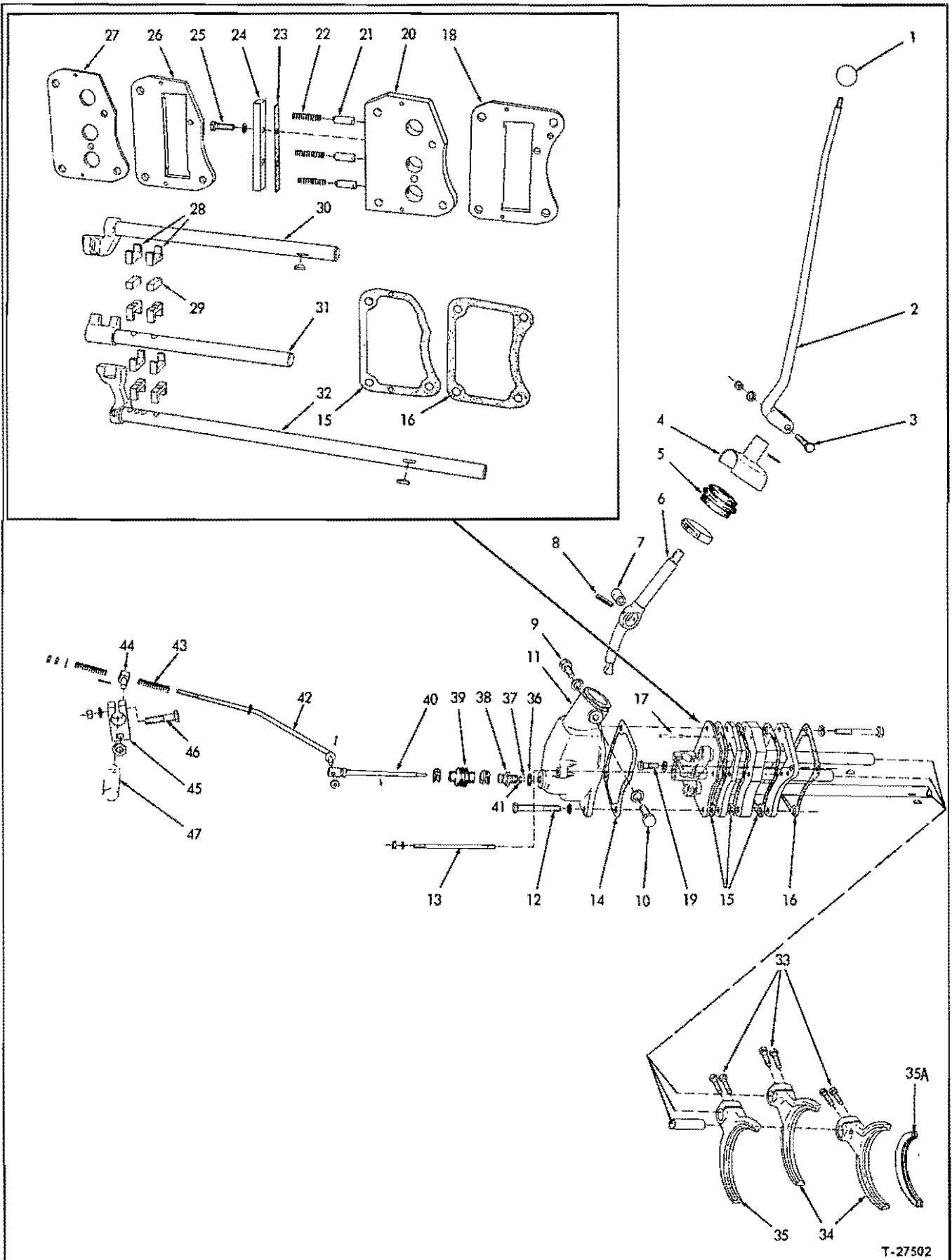
1	70091862	1	KNOB, extension lever	
2	70059332	1	LEVER, extension (For all tractors except those equipped with Bucket Seat)	
	70096028	1	LEVER, extension (For tractors equipped with Bucket Seat)	
3	70035892	1	CAPSCREW, 1/2"NF x 2-1/2"	
	70904208	1	LOCKWASHER, 1/2"	
	70911043	1	NUT, 1/2"NF	
4	70082067	1	GUARD, shift lever boot	
5	70078742	1	BOOT, shift lever	
	70916995	1	CLAMP, hose, 3" I.D.	
6	70083615	1	LEVER, shift	
7	70622080	1	SHAFT, shift lever pivot	
8	70915500	1	PIN, roll, 3/8" x 1-3/4"	
9	70621330	2	SCREW, set, shift lever pivot shaft	
	70904209	2	LOCKWASHER, 5/8"	
10	70089829	1	HOUSING, shift lever (For tractors prior to #556 also order 1 GASKET 70085877, 1 CAPSCREW 70035236, 1 CAPSCREW 70053617 and 1 LOCKWASHER 70904206 For tractors prior to #1589 also order 1 BREATHER 70051447)	
11	70035712	2	CAPSCREW, 1/2"NC x 2-1/4"	} 3 used prior to tractor #556
	70904208	2	LOCKWASHER, 1/2"	
12	70053617	1	CAPSCREW, 3/8"NF x 4-3/4"	} Effective with tractor #556
	70904206	1	LOCKWASHER, 3/8"	
13	70061631	1	CAPSCREW, 1/2"NC x 3-1/2"	}
	70904208	1	LOCKWASHER, 1/2"	
14	70051447	1	BREATHER, shift lever housing (Used on tractors #1589 thru approx. #2726)	
	70901651	1	PLUG, pipe, 1/8"NPT (Effective with tractor approx. #2727)	
15	70085878	1	GASKET, shift lever housing (Used prior to tractor #556)	
	70085877	1	GASKET, shift lever housing (Effective with tractor #556)	
16	70085878	1	GASKET, gear shift lock plate	
17	70083573	1	PLATE, gear shift lock	
	70901653	1	PLUG, pipe, 3/8"NPT	
18	70035236	1	CAPSCREW, 1/2"NC x 1-3/4"	} Effective with tractor #556
	70904208	1	LOCKWASHER, 1/2"	
19	70035159	3	CAPSCREW, interlock spring (5/8"NC x 1")	
20	70049918	3	WASHER, interlock spring capscrew (copper)	

(Continued)

SPEED SELECTION GEAR SHIFT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
21	70096922	3	SPRING, shifting shaft interlock
22	70905362	5	BALL, steel, 1/2" diam.
23	70055349	2	PIN, interlock (1/4" x 7/8") (1 used prior to tractor #899)
24	70905362	6	BALL, steel, 1/2" diam. (Used prior to tractor #2997. 3 less used prior to tractor #899. Order PIN 70096808)
	70096808	2	PIN, interlock (1/2" x 1-1/2")(Effective with tractor#2997)
25	70905362	2	BALL, steel, 1/2" diam. (Used on tractors #899 thru #2996. Order PIN 70096809)
	70096809	1	PIN, interlock (1/2" x 1") (Effective with tractor #2997)
26	70088932	1	SHAFT, shifting fork, upper
	70911233	1	KEY, #11 woodruff, 3/16" x 7/8"
27	70088930	1	SHAFT, shifting fork, center
28	70083757	1	SHAFT, shifting fork, lower (Used prior to tractor #899)
	70088940	1	SHAFT, shifting fork, lower (Effective with tractor #899)
	70911233	1	KEY, #11 woodruff, 3/16" x 7/8"
29	70035018	6	CAPSCREW, shifting forks (1/2"NF x 1-1/2")
30	70080867	2	FORK, center and rear
31	70080882	1	FORK, front
32	70050267	1	WASHER, plunger sleeve (copper)
33	70078402	1	WASHER, shifting lock plunger
34	70076846	1	SLEEVE, shifting lock plunger
35	70080166	1	BOOT, locking plunger
	70916897	2	CLAMP, hose, 1" diam.
36	70083598	1	PLUNGER, shifting lock
	70916146	1	PIN, roll, 3/32" x 1/2"
37	70081556	1	ROD, shifting lock plunger
	70911115	2	WASHER, plain, SAE std., 3/8"
	70900942	1	PIN, cotter, 3/32" x 5/8"
	70911041	2	NUT, 3/8"NF
38	70035910	2	SPRING, plunger rod
39	70050265	1	SWIVEL, shifting lock plunger rod
	70910244	1	WASHER, plain, SAE std., 1/2"
	70900805	1	PIN, cotter, 1/8" x 3/4"
40	70050566	1	LEVER, plunger rod operating
41	70035068	1	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
42	-----	1	SHAFT, operating (See ENGINE CLUTCH CONTROL)

MEMO



T-27502

SPEED SELECTION GEAR SHIFT (Second type. Tractors without torque converter)

SPEED SELECTION GEAR SHIFT

USAGE: Tractors without torque converter effective with serial No. 5043.

ITEM	PART NO.	QTY.	DESCRIPTION
			<u>NOTE:</u> See FLOOR for shift lever guide plate
1	70091862	1	KNOB, extension lever
2	70620285	1	LEVER, extension (For all tractors except those equipped with first type Bucket Seat)
	70621382	1	LEVER, extension (For tractors equipped with first type Bucket Seat)
3	70035892	1	CAPSCREW, 1/2"NF x 2-1/2"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT 1/2"NF
4	70082067	1	GUARD, shift lever boot
	70915989	1	PIN, roll, 3/16" x 1-3/8"
5	70078742	1	BOOT, shift lever
	70916995	1	CLAMP, hose, 3" I.D.
6	70620284	1	LEVER, shift
7	70622080	1	SHAFT, shift lever pivot
8	70915500	1	PIN, roll, 3/8" x 1-3/4"
9	70620313	1	SCREW, shift lever pivot, right
	70904209	1	LOCKWASHER, 5/8"
10	70621330	1	SCREW, shift lever pivot, left
	70904209	1	LOCKWASHER, 5/8"
11	70620274	1	HOUSING, shift lever
	70910257	1	CAPSCREW, 1/2"NC x 4-3/4"
	70904208	3	LOCKWASHER, 1/2"
12	70045253	2	CAPSCREW, 1/2"NC x 3-3/4"
13	70621262	1	STUD, shift lever housing
	70911041	1	NUT, 3/8"NF
	70904206	1	LOCKWASHER, 3/8"
14	70085877	1	GASKET, shift lever housing
15	70620980	3	GASKET, shaft locking plates
16	70085878	1	GASKET, shaft rear locking plate
17	70620981	2	PIN, dowel, shaft locking plates
18	70623902	1	PLATE, shaft locking, rear
19	70035190	1	CAPSCREW 1/2"NC x 1-1/2"
	70904208	1	LOCKWASHER, 1/2"
20	70623903	1	PLATE, shifting shaft plunger

(Continued)

SPEED SELECTION GEAR SHIFT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
21	70641356	3	PLUNGER, shifting shaft
22	70096922	3	SPRING, shifting shaft interlock
23	70620974	1	GASKET, plunger retaining bar
24	70620982	1	BAR, plunger retaining
25	70013058	2	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	2	LOCKWASHER, 3/8"
26	70623904	1	PLATE, shaft locking, front
27	70620971	1	PLATE, shaft guiding (Used prior to tractor #5154)
	70623905	1	PLATE, shaft guiding (Effective with tractor #5154)
28	70638953	8	DETENT, shifting shaft interlock
29	70620964	2	BLOCK, spacing, interlock detent
30	70620957	1	SHAFT, shifting fork, upper
	70911233	1	KEY, #11 woodruff, 3/16" x 7/8"
31	70620961	1	SHAFT, shifting fork, center
32	70620959	1	SHAFT, shifting fork, lower
	70911233	1	KEY, #11 woodruff, 3/16" x 7/8"
33	70035018	6	CAPSCREW, shifting forks (1/2"NF x 1-1/2")
34	70080867	2	FORK, center and rear (Original equipment)
	70650743	2	FORK, center and rear (Service replacement transmission)
35	70080882	1	FORK, front (Original equipment)
	70650742	1	FORK, front (Service replacement transmission)
35A	70650744	3	COLLAR, wear, shifting fork (Service replacement transmission)
36	70050267	1	WASHER, plunger sleeve (copper)
37	70078402	1	WASHER, shifting lock plunger
38	70620975	1	SLEEVE, shifting lock plunger (Used prior to tractor #5707)
	70635081	1	SLEEVE, shifting lock plunger (Effective with tractor #5707)
	70651580	1	SLEEVE, shifting lock plunger (Furnished in service replacement transmission only. Also see item 41)
39	70080166	1	BOOT, locking plunger (Used prior to tractor #5707)
	70635082	1	BOOT, locking plunger (Effective with tractor #5707)
	70916897	2	CLAMP, hose, 1" diam.
40	70638094	1	PLUNGER, shifting lock (If for tractors prior to #5707 also order 1 Sleeve 70635081 and 1 O-Ring ; 70635085)
	70916146	1	PIN, roll, 3/32" x 1/2"
41	70923560	1	O-RING, shifting lock plunger (Effective with tractor #5707)
	70651725	1	SEAL, shifting lock plunger (Furnished in service replacement transmission only. Also see item 38)
42	70621040	1	ROD, shifting lock plunger
	70911115	2	WASHER, plain, SAE std., 3/8"
	70900942	1	PIN, cotter, 3/32" x 5/8"
	70911041	2	NUT, 3/8"NF
43	70035910	2	SPRING, plunger rod
44	70050265	1	SWIVEL, shifting lock plunger rod
	70910244	1	WASHER, plain, SAE std., 1/2"
	70900805	1	PIN, cotter, 1/8" x 3/4"

(Continued)

SPEED SELECTION GEAR SHIFT (Continued)

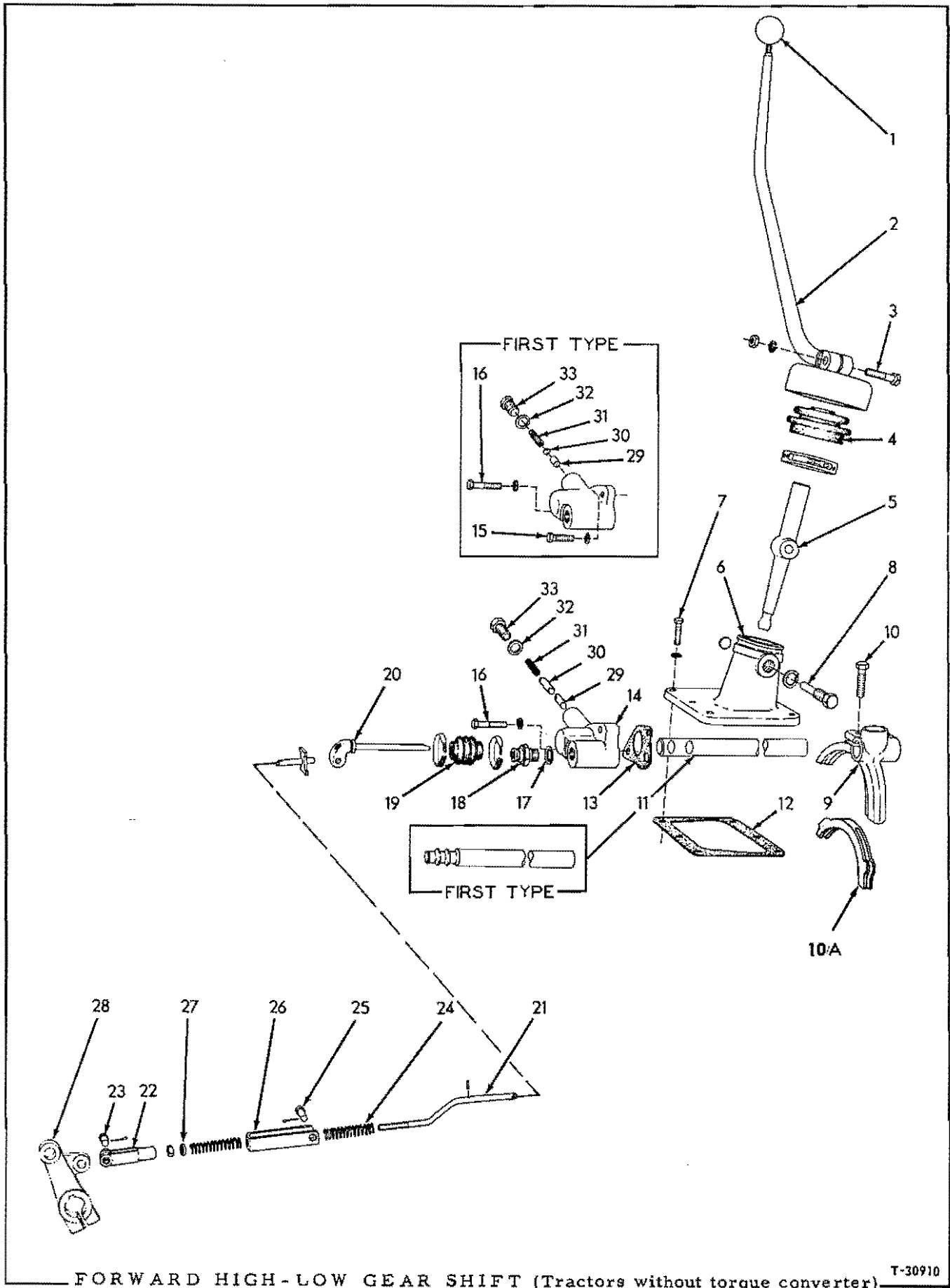
ITEM	PART NO.	QTY.	DESCRIPTION
45	70050566	1	LEVER, plunger rod operating
46	70035068	1	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
47	-----	1	SHAFT, operating (See ENGINE CLUTCH CONTROL)

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FORWARD HIGH-LOW GEAR SHIFT (Tractors without torque converter)

T-30910

FORWARD HIGH-LOW GEAR SHIFT

USAGE: Tractors without torque converter

*Tractors prior to serial No. 5043
 **Tractors serial No. 5043 and up

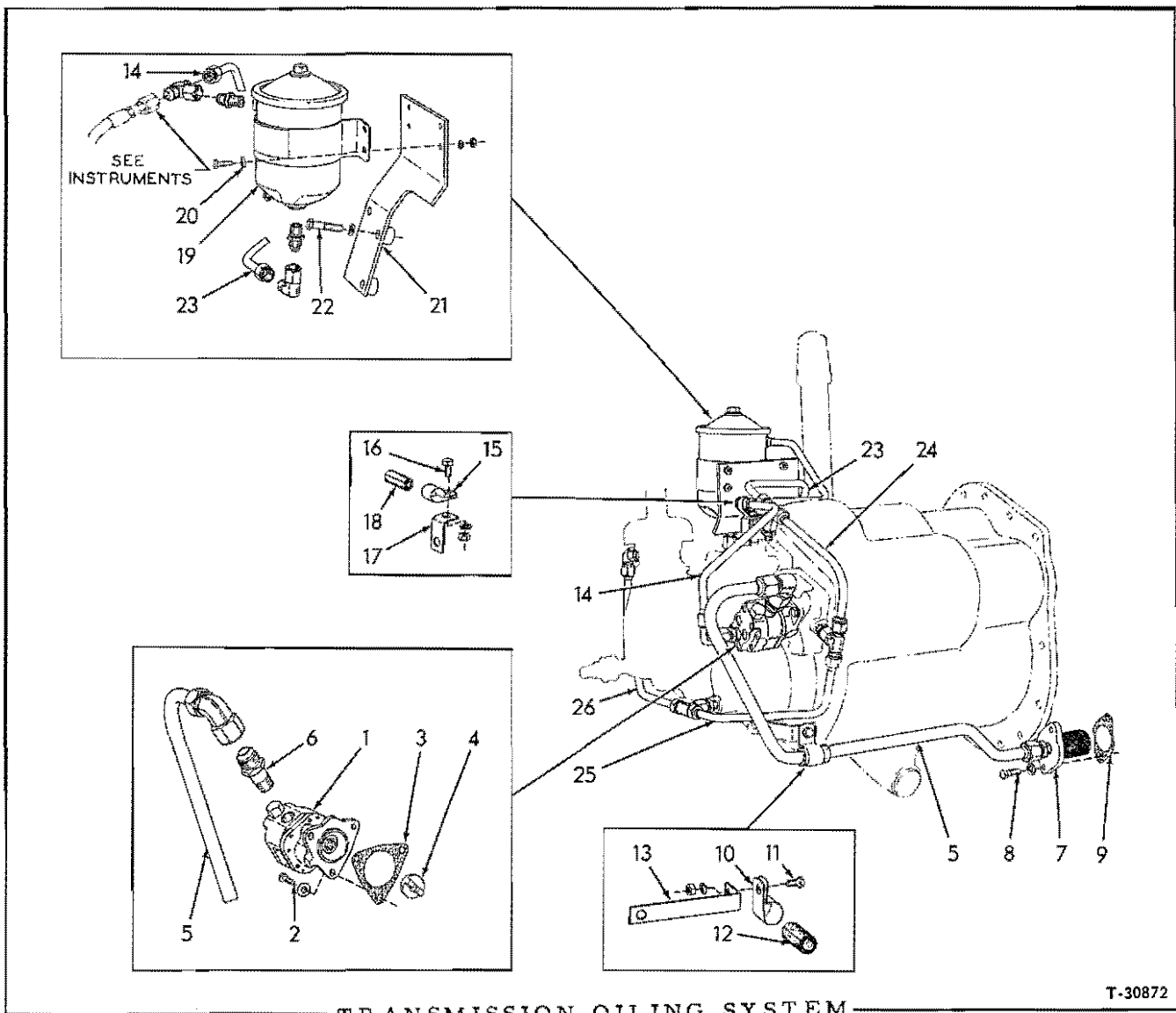
ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	70091862	1 1	KNOB, extension lever
2	70083866	1 1	LEVER, extension (For all tractors except those equipped with first type Bucket Seat)
	70095194	1 1	LEVER, extension (For tractors equipped with first type Bucket Seat)
3	70035068	1 1	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	1 1	LOCKWASHER, 1/2"
	70911043	1 1	NUT, 1/2"NF
4	70078742	1 1	BOOT, shift lever
	70916995	1 1	CLAMP, hose, 3" I. D.
5	70069339	1 1	LEVER, shift
6	70069477	1 1	HOUSING ASSY. (Includes 1 Plug 70910002)
	70910002	1 1	PLUG, expansion, 3/4" diam.
7	70013058	6 6	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	6 6	LOCKWASHER, 3/8"
8	70621331	1 1	SCREW, pivot, shift lever
	70904209	1 1	LOCKWASHER, 5/8"
9	70080943	1 1	FORK, shifting (Original equipment)
	70646256	1 1	FORK, shifting (Furnished in service replacement transmission only. Used with item 10A)
10	70035018	2 2	CAPSCREW, 1/2"NF x 1-1/2"
10A	70667553	1 1	COLLAR, wear, shifting fork (Furnished in service replacement transmission only)
11	70081285	1 -	SHAFT, shifting fork
	70620968	- 1	SHAFT, shifting fork
12	70057407	1 1	GASKET, housing to case
13	70069468	1 1	GASKET, interlock housing
14	70069404	1 -	HOUSING, gear shift interlock
	70643046	- 1	HOUSING, gear shift interlock
15	70013058	1 -	CAPSCREW, 3/8"NC x 1-1/4"
16	70053616	1 2	CAPSCREW, 3/8"NC x 1-3/4"
	70904206	2 2	LOCKWASHER, 3/8"
17	70050267	1 1	WASHER, plunger sleeve (copper)
18	70076846	1 -	SLEEVE, shifting lock plunger (15/32" hole)
	70620975	- 1	SLEEVE, shifting lock plunger (13/32" hole)
19	70080166	1 1	BOOT, locking plunger
	70916897	2 2	CLAMP, hose, 1" diam.
20	70076840	1 1	PLUNGER, shifting lock
21	70081514	1 1	ROD, shifting lock plunger
	70916202	1 1	PIN, roll, 1/8" x 7/8"
	70911041	1 1	NUT, 3/8"NF
22	70628736	1 1	YOKE, shifting lock plunger
23	70078810	1 1	PIN, yoke
	70900942	1 1	PIN, cotter, 3/32" x 5/8"
24	70035910	2 2	SPRING, plunger rod

(Continued)

FORWARD HIGH-LOW GEAR SHIFT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
25	70082875	1 1	PIN, plunger rod yoke
	70900942	1 1	PIN, cotter, 3/32" x 5/8"
26	70078967	1 1	YOKE, plunger rod (4-1/4" long)
27	70044973	1 1	WASHER, plunger rod
28	-----	1 1	LEVER ASSY., (See ENGINE CLUTCH CONTROL)
29	70905362	2 -	BALL, steel, 1/2" diam. (Used prior to tractor #2997)
	70096809	1 -	PIN, interlock (Effective with tractor #2997)
	-----	- 1	PIN, interlock (Original equipment)(Order Pin 70643040 and Plunger 70643042)
	70643040	- 1	PIN, interlock (Service replacement only)
30	70905362	1 -	BALL, steel, 1/2" diam.
	70641356	- 1	PLUNGER, shaft locating (Original equipment)
	70643042	- 1	PLUNGER, shaft locating (Service replacement only)
31	70096922	1 1	SPRING, shifting shaft interlock
32	70049918	1 1	WASHER, interlock spring capscrew (copper)
33	70035159	1 1	CAPSCREW, interlock spring (5/8" NC x 1")

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TRANSMISSION OILING SYSTEM

T-30872

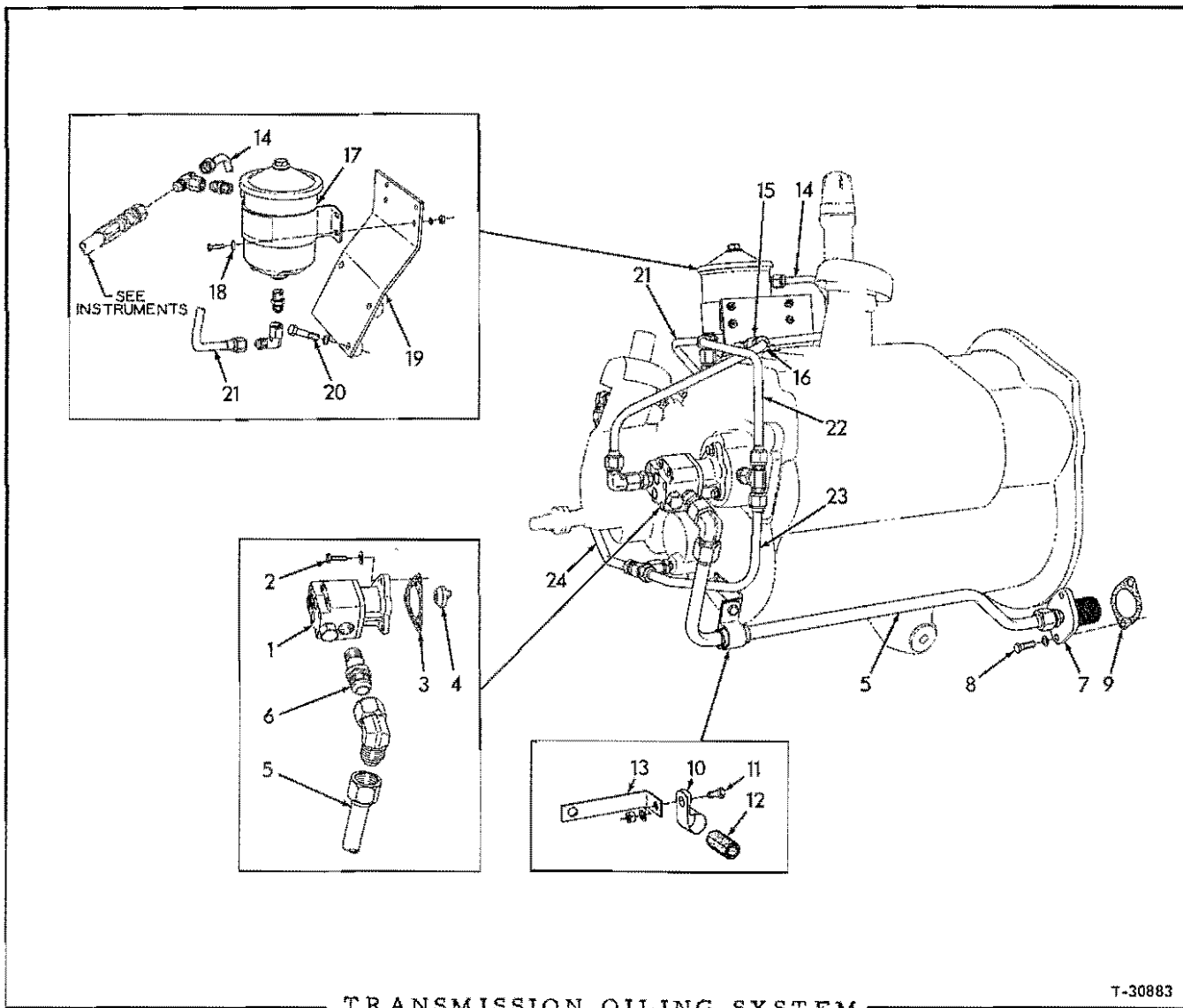
USAGE: Tractors with torque converter. Applicable only to tractors serial No. 5043 thru No. 5153, excluding No. 5104

ITEM	PART NO.	QTY.	DESCRIPTION
1	70623316	1	PUMP ASSEMBLY (See page 315 for parts)
2	70054130	3	CAPSCREW, 5/16"NC x 7/8"
	70917330	3	WASHER, plain, copper, 5/16"
3	74376605	1	GASKET, oil pump
4	70099005	1	COUPLING, pump drive
5	70623311	1	TUBE ASSEMBLY, suction (Includes nuts)
	70919615	1	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male
	70919624	1	ELBOW, flare type, swivel nut, 3/4" tube
6	70623310	1	CONNECTOR, suction tube (pump end)

(Continued)

TRANSMISSION OILING SYSTEM (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
7	70098940	1	SCREEN, oil
8	70012992	2	CAPSCREW, 3/8"NF x 1-1/4"
	70917264	2	WASHER, plain, copper, 3/8"
9	70098941	1	GASKET, oil screen
10	70054034	1	CLIP, suction tube
11	70036032	1	CAPSCREW, 3/8"NF x 3/4"
	70904206	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF
12	70097611	1	BOOT, protecting, suction tube (rubber)
13	70621215	1	ANGLE, suction tube supporting
14	70623312	1	TUBE ASSEMBLY, pump to filter (Includes nuts)
	70921279	1	ELBOW, flare type, swivel nut, 1/2" tube
	70921276	1	TEE, flare type, swivel nut, 1/2" tube
	70919128	1	CONNECTOR, flare type, 1/2" tube, 1/2"NPT male
	70919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
15	70097534	1	CLIP, tube supporting
16	70036032	1	CAPSCREW, 3/8"NF x 3/4"
	70904206	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF
17	70623309	1	ANGLE, tube supporting clip
18	70093752	1	BOOT, tube protecting (rubber)
19	70623609	1	FILTER ASSEMBLY(See page 317 for parts)
	70912327	4	CAPSCREW, 1/4"NC x 7/8"
20	70092635	4	WASHER, plain
	70904204	4	LOCKWASHER, 1/4"
	70911024	4	NUT, 1/4"NC
21	70098938	1	BRACKET, filter mounting
22	70053616	3	CAPSCREW, 3/8"NC x 1-3/4"
	70904206	3	LOCKWASHER, 3/8"
23	70623598	1	TUBE ASSEMBLY, filter to top shaft (Includes nuts)
	70921279	1	ELBOW, flare type, swivel nut, 1/2" tube
	70919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
	70921276	1	TEE, flare type, swivel nut, 1/2" tube
	70623188	1	CONNECTOR, flare type, restricted, 1/2" tube, 1/4"NPT male
24	70623599	1	TUBE ASSEMBLY, top shaft to reverse shaft (Includes nuts)
	70921276	1	TEE, flare type, swivel nut, 1/2" tube
	70623188	1	CONNECTOR, flare type, restricted, 1/2" tube, 1/4"NPT male
25	70623601	1	TUBE ASSEMBLY, reverse shaft to pinion shaft (Includes nuts)
	70921276	1	TEE, flare type, swivel nut, 1/2" tube
	70919205	1	CONNECTOR, flare type, 1/2" tube, 1/4"NPT male
26	70623600	1	TUBE ASSEMBLY, pinion shaft to shift housing (Includes nuts)
	70921279	1	ELBOW, flare type, swivel nut, 1/2" tube
	70623188	1	CONNECTOR, flare type, restricted, 1/2" tube, 1/4"NPT male



USAGE: Tractors without torque converter. Applicable only to tractors serial No. 5043 thru No. 5153

ITEM	PART NO.	QTY.	DESCRIPTION
1	70623316	1	PUMP ASSEMBLY (See page 315 for parts)
2	70054130	3	CAPSCREW, 5/16"NC x 7/8"
	70917330	3	WASHER, plain, copper, 5/16"
3	74376605	1	GASKET, oil pump
4	70099005	1	COUPLING, pump drive
5	70623321	1	TUBE ASSEMBLY, suction (Includes nuts)
	70919615	1	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male
	70919624	1	ELBOW, flare type, swivel nut, 3/4" tube
6	70623310	1	CONNECTOR, suction tube (pump end)

(Continued)

TRANSMISSION OILING SYSTEM (Continued)

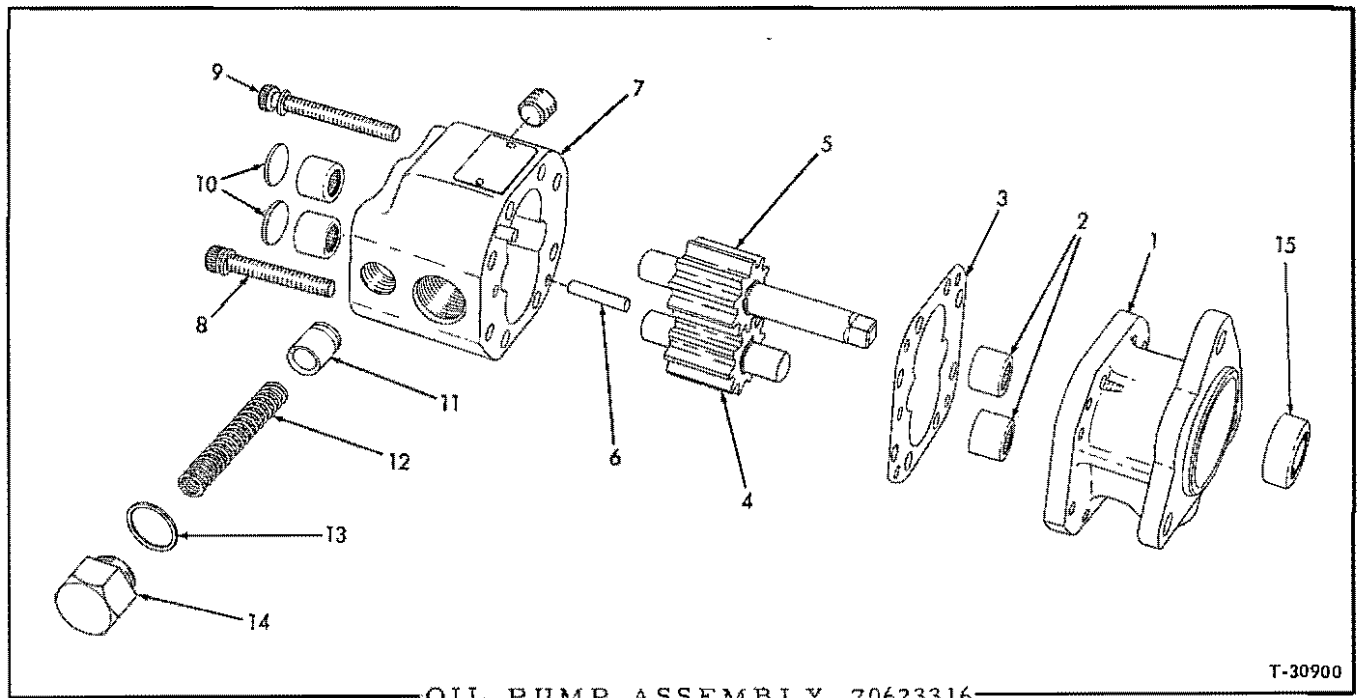
ITEM	PART NO.	QTY.	DESCRIPTION
7	70098940	1	SCREEN, oil
8	70012992	2	CAPSCREW, 3/8"NF x 1-1/4"
	70917264	2	WASHER, plain, copper, 3/8"
9	70098941	1	GASKET, oil screen
10	70054034	1	CLIP, suction tube
11	70036032	1	CAPSCREW, 3/8"NF x 3/4"
	70904206	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF
12	70097611	1	BOOT, suction tube (rubber)
13	70623317	1	ANGLE, suction tube supporting
14	70623320	1	TUBE ASSEMBLY, pump to filter (Includes nuts)
	70921279	1	ELBOW, flare type, swivel nut, 1/2" tube
	70921276	1	TEE, flare type, swivel nut, 1/2" tube
	70919128	1	CONNECTOR, flare type, 1/2" tube, 1/2"NPT male
	70919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
15	70097534	1	CLIP, tube supporting
16	70093752	1	BOOT, tube protecting (rubber)
17	70623609	1	FILTER ASSEMBLY (See page 317 for parts)
	70912327	4	CAPSCREW, 1/4"NC x 7/8"
18	70092635	4	WASHER, plain
	70904204	4	LOCKWASHER, 1/4"
	70911024	4	NUT, 1/4"NC
19	70621937	1	BRACKET, filter mounting
20	70053616	3	CAPSCREW, 3/8"NC x 1-3/4"
	70904206	3	LOCKWASHER, 3/8"
21	70623606	1	TUBE ASSEMBLY, filter to top shaft (Includes nuts)
	70921279	1	ELBOW, flare type, swivel nut, 3/8" tube
	70624826	1	CONNECTOR, flare type, restricted, 1/2" tube, 3/8"NPT male
	70921276	1	TEE, flare type, swivel nut, 1/2" tube
	70623188	1	CONNECTOR, flare type, restricted, 1/2" tube, 1/4"NPT male
22	70623607	1	TUBE ASSEMBLY, top shaft to intermediate shaft (Includes nuts)
	70921276	1	TEE, flared type, swivel nut, 1/2" tube
	70919205	1	CONNECTOR, flare type, 1/2" tube, 1/4"NPT male
23	70623604	1	TUBE ASSEMBLY, intermediate shaft to pinion shaft (Includes nuts)
	70921276	1	TEE, flare type, swivel nut, 1/2" tube
	70919205	1	CONNECTOR, flare type, 1/2" tube, 1/4"NPT male
24	70623605	1	TUBE ASSEMBLY, pinion shaft to shift housing (Includes nuts)
	70921279	1	ELBOW, flare type, swivel nut, 1/2" tube
	70623188	1	CONNECTOR, flare type, restricted, 1/2" tube, 1/4"NPT male

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OIL PUMP ASSEMBLY 70623316

T-30900

USAGE: See pages 310 and 312.

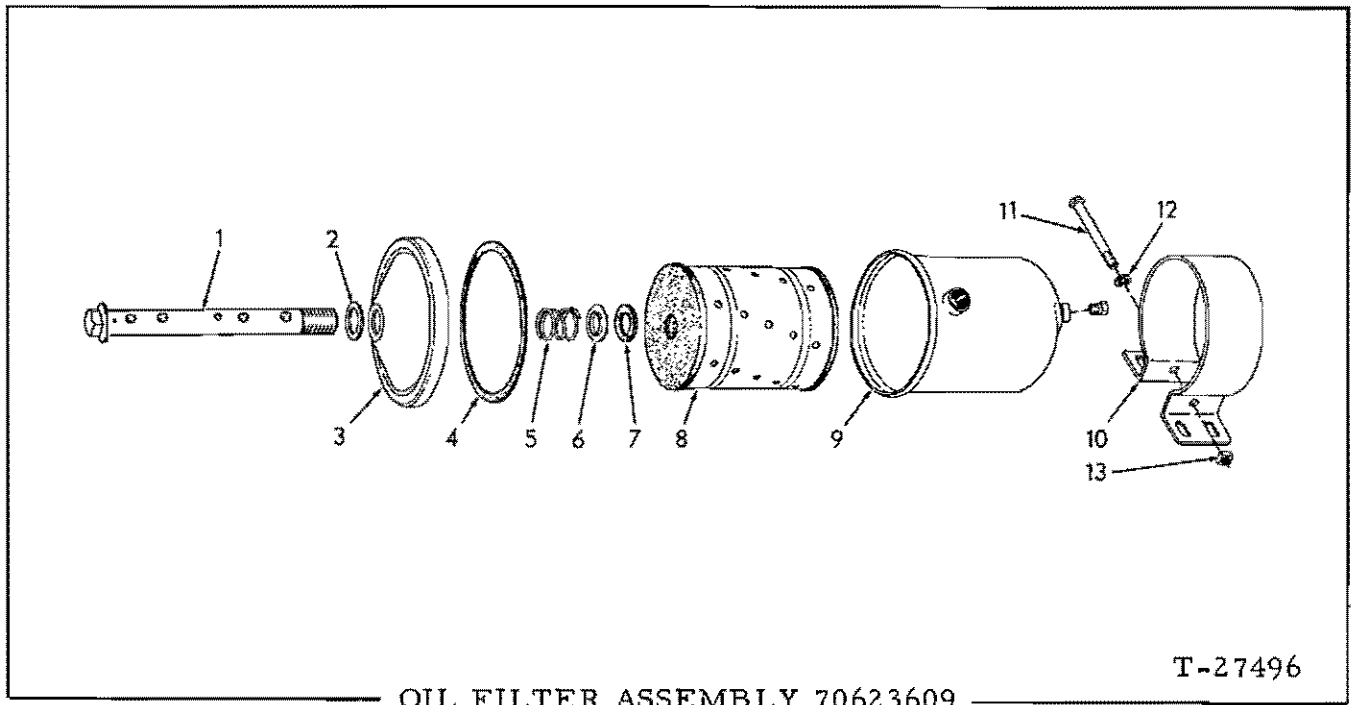
ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	STATOR (Not serviced separately)
2	70077241	4	BEARING, needle
3	70621363	1	GASKET, pump housing
4	70098394	1	SHAFT ASSEMBLY, idler (Includes gear. Serviced only as a unit)
5	70623845	1	SHAFT ASSEMBLY, driving (Includes gear. Serviced only as a unit)
6	74048000	2	PIN, dowel, pump housing
7	-----	1	HOUSING, gear (Not serviced separately)
	70910231	1	PLUG, pipe, hex-socket, 1/8"NPT
8	70622083	4	SCREW ASSEMBLY, short (Includes lockwasher)
9	70623834	4	SCREW ASSEMBLY, long (Includes lockwasher)
10	70092107	2	PLUG, expansion, 11/16" diam.
11	70623835	1	PLUNGER, pressure relief valve
12	70623838	1	SPRING, pressure relief valve
13	70623837	1	GASKET, pressure relief valve cap
14	70623836	1	CAP, pressure relief valve
15	74047783	1	SEAL, oil (Not used on early units)

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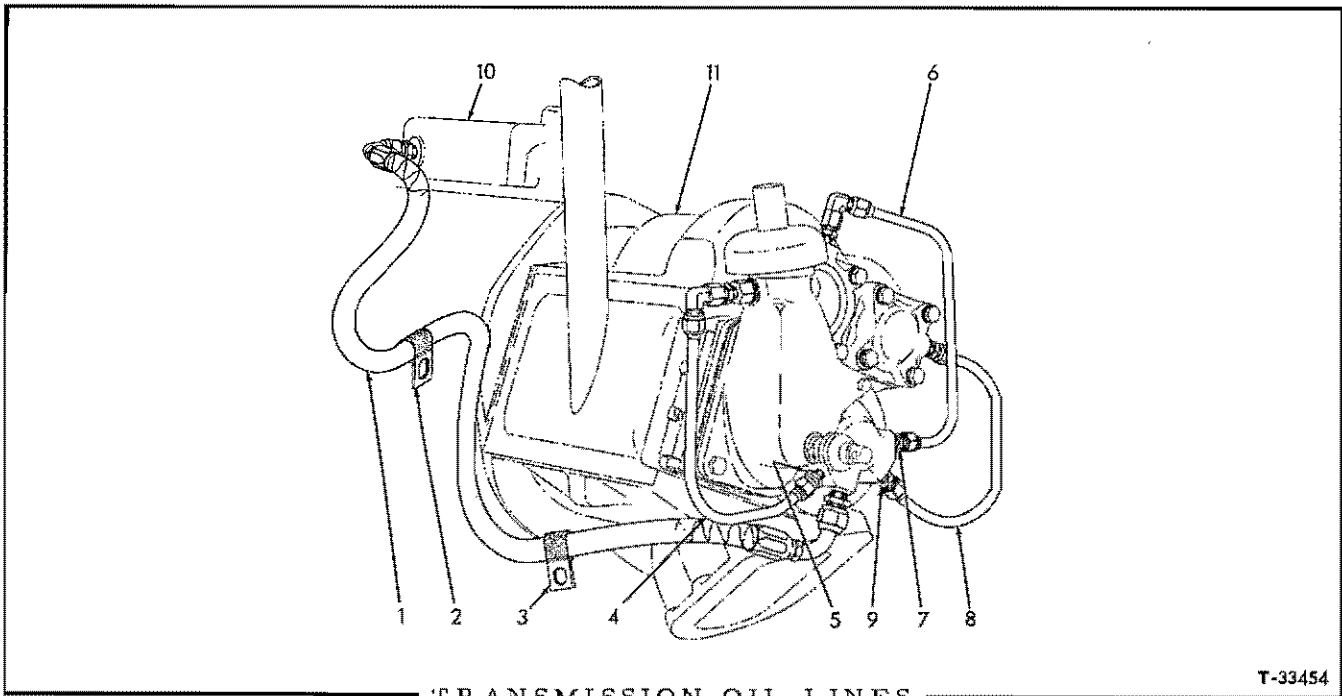
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USAGE: See pages 310 and 312

ITEM	PART NO.	QTY.	DESCRIPTION
1	70623608	1	BOLT ASSY. (Includes check valve. Serviced only as a unit)
2	74049469	1	GASKET, cover bolt
3	74049471	1	COVER, filter body
4	74049470	1	GASKET, filter body cover
5	74048793	1	SPRING, cartridge retaining
6	74048794	1	WASHER, cartridge gasket
7	74041209	1	GASKET, cartridge
8	74372517	1	CARTRIDGE ASSY. (Includes items 2, 4 and 7)
9	74049472	1	BODY, oil filter
	70917426	1	PLUG, pipe, hex-hd., 1/8"NPT
10	74506165	1	CLAMP, mounting
11	74371974	1	BOLT, mounting clamp
12	74371973	1	LOCKWASHER
13	74371795	1	NUT

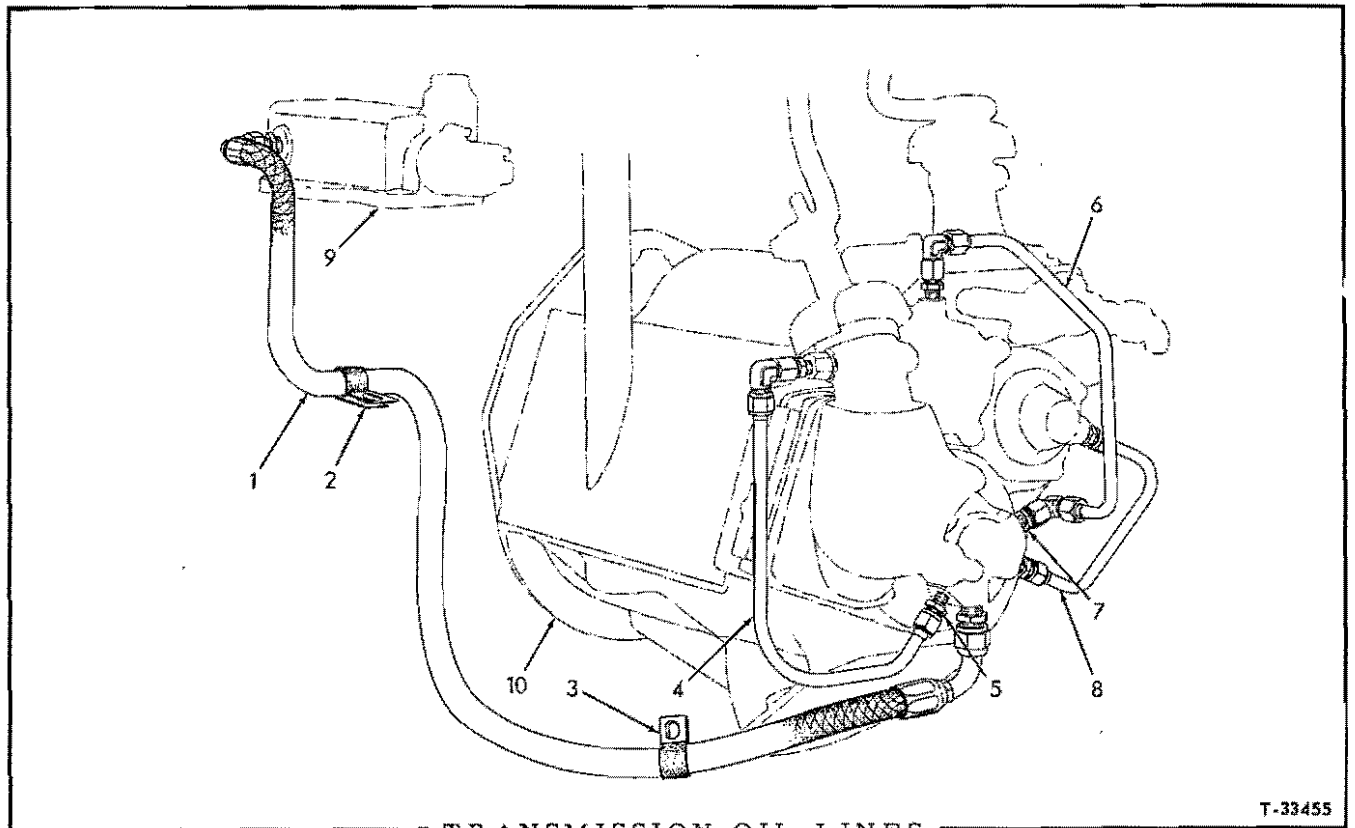


TRANSMISSION OIL LINES

T-33454

USAGE: Tractors with torque converter effective with serial No. 5154 including No. 5104

ITEM	PART NO.	QTY.	DESCRIPTION
1	70623833	1	HOSE ASSEMBLY, brake valve to pinion shaft cover (See HOSE PARTS)
	70919615	2	CONNECTOR, flare type, 3/4" tube, 1/2" NPT male
2	70622916	1	CLIP, hose supporting (1-1/16" diam., 17/32" bolt-hole)
3	70621451	1	CLIP, hose supporting (1-1/16" diam., 13/32" bolt-hole)
4	70623831	1	TUBE ASSEMBLY, pinion shaft cover to shift housing (Includes nuts)
	70921279	1	ELBOW, flare type, swivel nut, 1/2" tube
5	70623188	1	CONNECTOR, flare type, restricted, 1/2" tube, 1/4" NPT male
	70919205	1	CONNECTOR, flare type, 1/2" tube, 1/4" NPT male
6	70623830	1	TUBE ASSEMBLY, top shaft to pinion shaft cover (Includes nuts)
	70921279	1	ELBOW, flare type, swivel nut, 1/2" tube
7	70623188	1	CONNECTOR, flare type, restricted, 1/2" tube, 1/4" NPT male
	70919205	1	CONNECTOR, flare type, 1/2" tube, 1/4" NPT male
8	70623705	1	TUBE ASSEMBLY, reverse shaft to pinion shaft cover (Includes nuts)
9	70623188	1	CONNECTOR, flare type, restricted, 1/2" tube, 1/4" NPT male
	70919205	1	CONNECTOR, flare type, 1/2" tube, 1/4" NPT male
10	-----	1	VALVE ASSEMBLY, right brake (See HYDRAULIC BRAKES)
11	-----	1	TRANSMISSION (See TRANSMISSION ASSEMBLY)

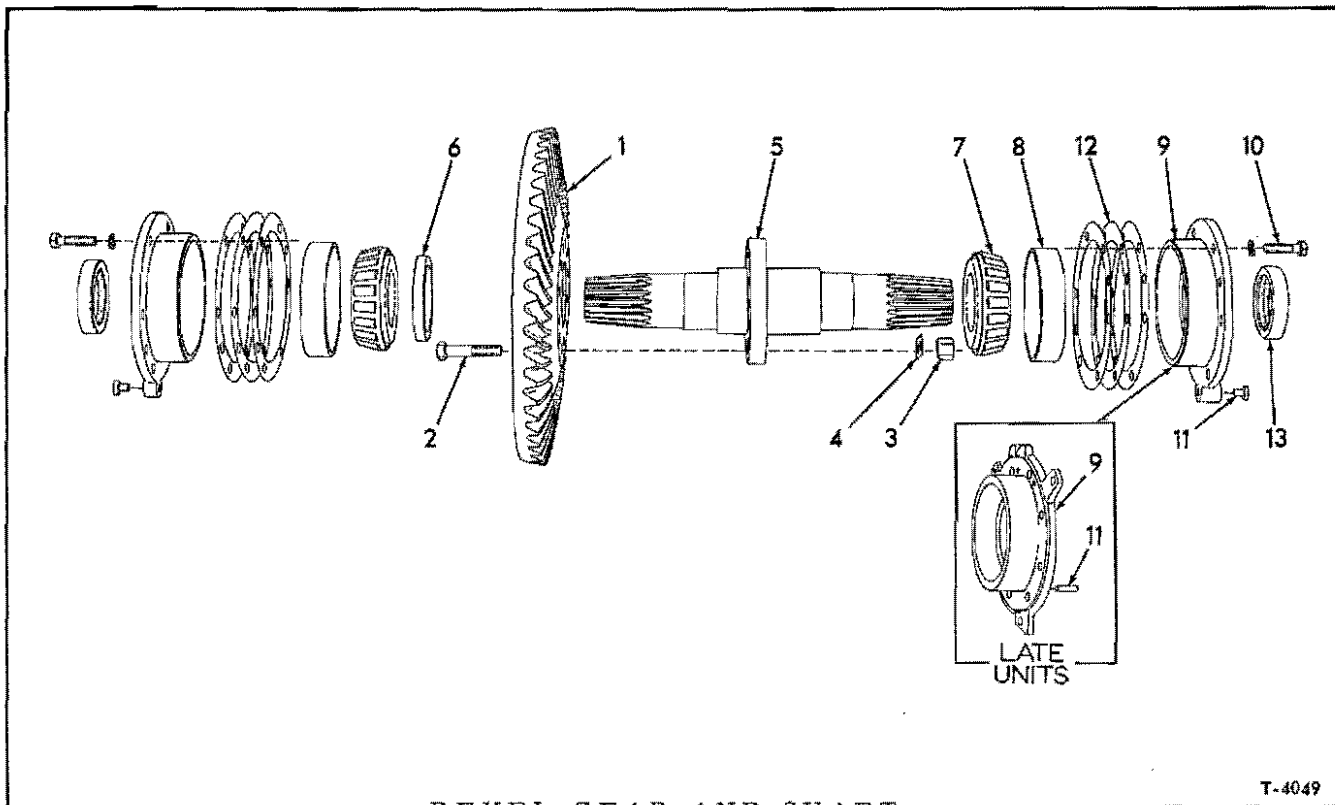


TRANSMISSION OIL LINES

T-33455

USAGE: Tractors without torque converter effective with serial No. 5154

ITEM	PART NO.	QTY.	DESCRIPTION
1	70623701	1	HOSE ASSEMBLY, brake valve to pinion shaft cover (See HOSE PARTS)
	70919615	2	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male
2	70622916	1	CLIP, hose supporting (1-1/16" diam., 17/32" bolt-hole)
3	70621451	1	CLIP, hose supporting (1-1/16" diam., 13/32" bolt-hole)
4	70623832	1	TUBE, ASSEMBLY, pinion shaft cover to shift housing (Includes nuts)
	70921279	1	ELBOW, flare type, swivel nut, 1/2" tube
5	70623188	1	CONNECTOR, flare type, restricted, 1/2" tube 1/4"NPT male
	70919205	1	CONNECTOR, flare type, 1/2" tube, 1/4"NPT male
6	70623706	1	TUBE ASSEMBLY, top shaft to pinion shaft cover (Includes nuts)
	70921279	2	ELBOW, flare type, swivel nut, 1/2" tube
7	70623188	1	CONNECTOR, flare type, restricted, 1/2" tube, 1/4"NPT male
	70919205	1	CONNECTOR, flare type, 1/2" tube, 1/4"NPT male
8	70623707	1	TUBE ASSEMBLY, intermediate shaft to pinion shaft cover (Includes nuts)
	70919205	2	CONNECTOR, flare type, 1/2" tube, 1/4"NPT male
9	-----	1	VALVE ASSEMBLY, right brake (See HYDRAULIC BRAKES)
10	-----	1	TRANSMISSION (See TRANSMISSION ASSEMBLY)



BEVEL GEAR AND SHAFT

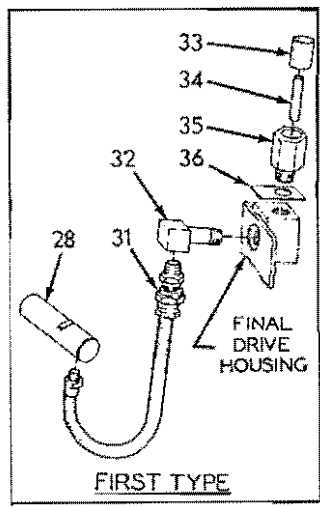
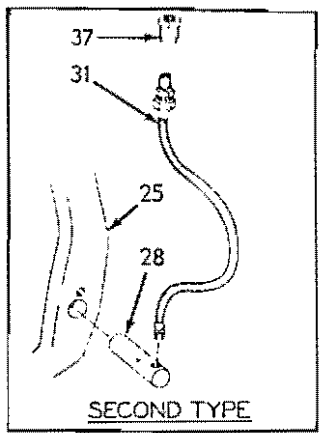
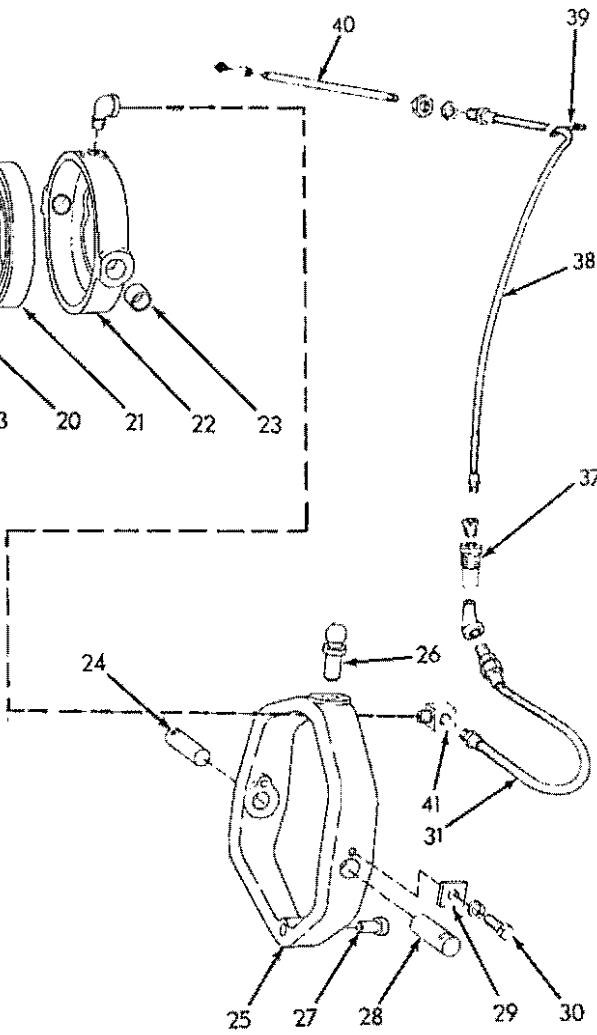
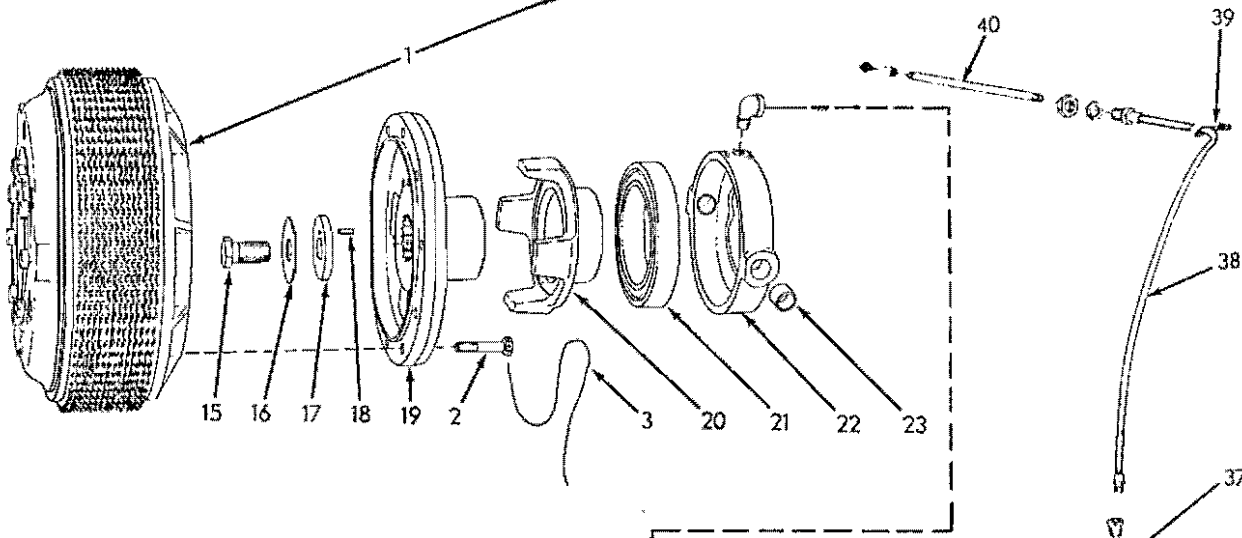
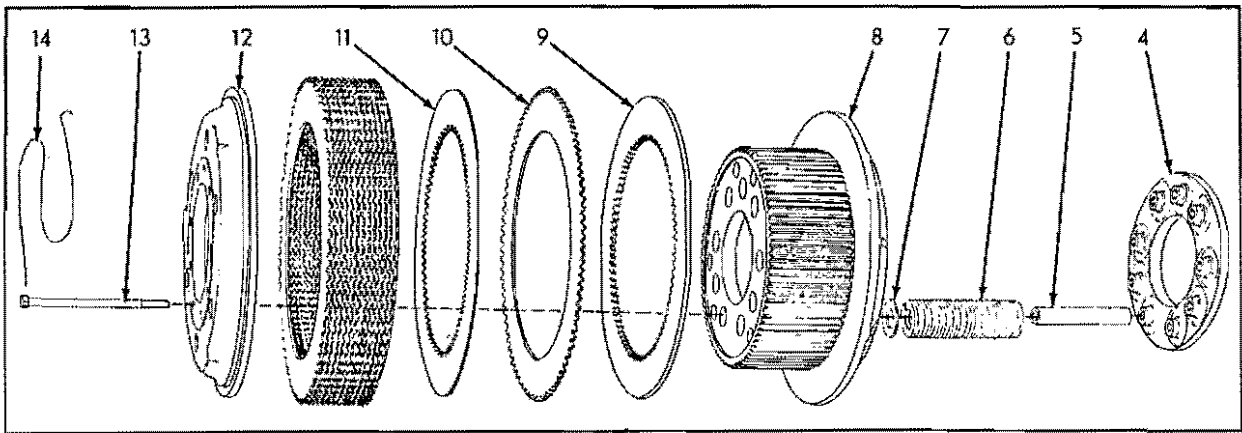
* Tractors prior to serial No. 5154, excluding No. 5104
 ** Tractors serial No. 5154 and up, including No. 5104

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70059064	1	1	GEAR, bevel (50 teeth, right hand spiral)(Tractors without torque converter)
	70084301	1	-	GEAR, bevel (50 teeth, left hand spiral)(Tractors with torque converter)(Used prior to tractor #4834)
	70095543	1	1	GEAR, bevel (43 teeth, left hand spiral)(Tractors with torque converter)(Effective with tractor #4834)
2	70067680	12	12	BOLT, 5/8"NF x 2-3/4"
3	70072366	12	12	NUT, high, 5/8"NF
4	70067605	6	6	PLATE, locking
5	70058916	1	1	SHAFT, bevel gear
6	70067578	1	1	RING, locking, bevel gear bolts
7	70069579	2	2	CONE ASSEMBLY, shaft bearing
8	70050276	2	2	CUP, shaft bearing
9	70059044	2	-	CAGE ASSEMBLY, bearing (Includes item 11)
	70623930	-	2	CAGE ASSEMBLY, bearing (Includes item 11)
10	70035073	12	12	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	12	12	LOCKWASHER, 1/2"

(Continued)

BEVEL GEAR AND SHAFT (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
11	70051291	2	-	PIN, wear, bearing retainer
	70623933	-	4	PIN, bearing cage
12	70059026	12	12	SHIM, bearing adjustment (.005" thick. Use as required)
	70059025	10	10	SHIM, bearing adjustment (.007" thick. Use as required)
	70059024	10	10	SHIM, bearing adjustment (.010" thick. Use as required)
13	70629040	2	-	SEAL, oil



STEERING CLUTCHES (First type)

T-30891

STEERING CLUTCHES

USAGE: Tractors prior to serial No. 5154, excluding No. 5104

* Used prior to tractor serial No. 1002
 ** Effective with tractor serial No. 1002

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70059050	2	2	CLUTCH ASSEMBLY, steering (Consists of items 4 thru 14)(Used prior to tractor #4560, excluding #4534)
	70099297	-	2	CLUTCH ASSEMBLY, steering (Consists of items 4 thru 14) (Effective with tractor #4560, including #4534)
2	70035814	20	20	CAPSCREW, drilled-hd., 1/2"NC x 1-3/4" (Used prior to tractor #4560, excluding #4534)
	70099269	-	20	CAPSCREW, drilled-hd., 5/8"NC x 1-3/4" (Effective with tractor #4560, including #4534)
3	70023633	10	10	WIRE, locking, 1/16" x 12"
4	70059035	2	2	PLATE, throwout
5	70052118	18	18	SPACER, throwout plate
6	70092050	18	18	SPRING, pressure
7	70049105	18	18	WASHER, spring insulating
8	70059036	2	2	HUB, clutch (Used prior to tractor #4560, excluding #4534)
	70099296	-	2	HUB, clutch (Effective with tractor #4560, including #4534)
9	70048209	2	2	PLATE, back
10	70051257	24	24	DISC, friction (bi-metallic)
	70092802	4	4	DISC, friction (bi-metallic, tapered thickness)
11	70623876	28	28	DISC, friction (steel)(Use as required)
12	70059048	2	2	PLATE, pressure
13	70052119	18	18	CAPSCREW, throwout plate (drilled-hd., 1/2"NF x 6-1/2")
14	70023756	6	6	WIRE, locking, 1/16" x 26"
15	70630045	2	2	CAPSCREW, hub retaining (thin-hd., 1"NF x 1-3/4")
16	70630052	2	2	LOCK, hub retaining capscrew
17	70623783	2	2	WASHER ASSEMBLY, hub retaining (Includes item 18)
18	70035793	2	2	PIN, retaining washer
19	70059034	2	2	HUB, driving (Used prior to tractor #4560, excluding #4534)
	70099292	-	2	HUB, driving (Effective with tractor #4560, including #4534)
20	70095649	2	2	SLEEVE, throwout

(Continued)

STEERING CLUTCHES (Continued)

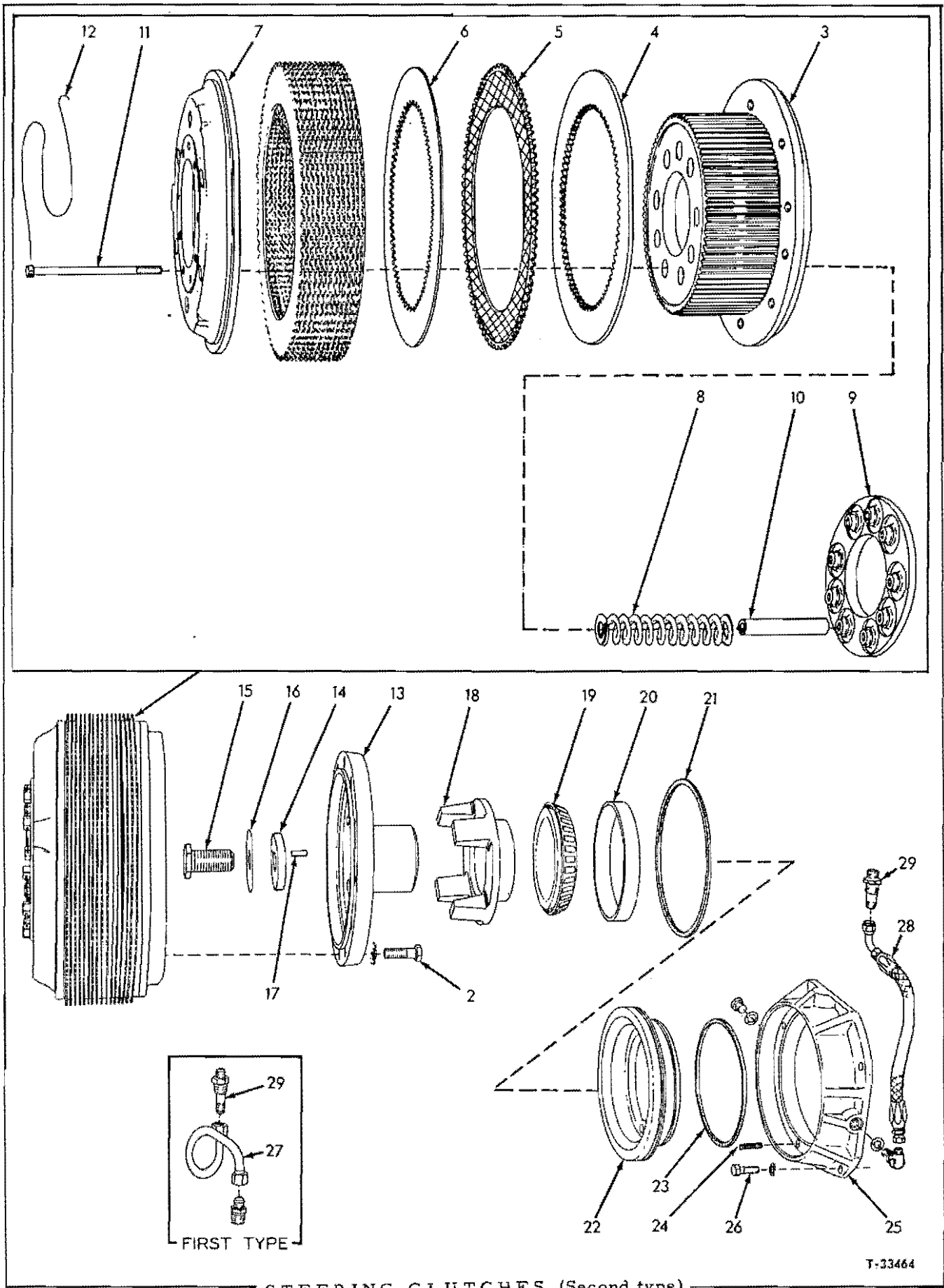
ITEM	PART NO.	QTY. * **	DESCRIPTION
21	70059177	2 2	BEARING, ball, clutch throwout
22	70621631	2 2	CAGE ASSEMBLY, throwout bearing (Includes item 23 and PLUG indented below)
	70901652	2 2	PLUG, pipe, 1/4"NPT (Used prior to tractor #4996) (See item 42)
23	70051957	4 4	BUSHING, throwout bearing cage
24	70051958	2 2	PIN, trunnion, throwout yoke, front
25	70059029	2 2	YOKE ASSEMBLY, throwout (Includes items 26 and 27)
26	70052062	2 2	BALL, throwout yoke
27	70050220	2 2	PIN, wear, throwout yoke
28	70082017	2 -	PIN, trunnion, throwout yoke, rear
	70088722	- 2	PIN, trunnion, throwout yoke, rear (Used prior to tractor #4996) (See item 42)
	70051958	- 2	PIN, trunnion, throwout yoke, rear (Effective with tractor #4996)
29	70052505	4 4	BLOCK, locking, throwout yoke trunnion pin
30	70035244	4 4	CAPSCREW, 3/8"NC x 3/4"
	70904206	4 4	LOCKWASHER, 3/8"
31	70082016	2 2	HOSE, lubricating, throwout bearing, lower (15" long)(Used prior to tractor #4996)(See item 42)
	70082785	- 2	HOSE, lubricating, throwout bearing, lower (9-3/4" long)(Effective with tractor #4996)
	70907058	- 2	ELBOW, pipe, 45°, 1/4"NPT
32	70042538	2 -	ELBOW, lubricating hose
33	70082726	2 -	WICK, oiling, throwout bearing, upper
34	70082727	2 -	WICK, oiling, throwout bearing, lower
35	70075434	2 -	HOLDER, oiling wick
36	70075432	2 -	LOCK, oiling wick holder
37	70044622	- 2	BUSHING, hose connecting
	70901825	- 2	BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT
38	70088899	- 2	HOSE, lubricating, throwout bearing, upper (29-1/2" long)
	70915274	- 2	FITTING, lubricating, 45°, 1/8"NPT (For HD16GC only)
	70904209	- 2	LOCKWASHER, 5/8"
	70911049	- 2	NUT, jam, 5/8"NF
39	70048164	- 2	CLIP, hose supporting
40	70088723	- 2	PIPE, lubricating, throwout bearing (Not for HD16GC)
	70901763	- 2	COUPLING, pipe, 1/8"NPT
	70914465	- 2	FITTING, lubricating, straight, 1/8"NPT

Also see item 42

(Continued)

STEERING CLUTCHES (Continued)

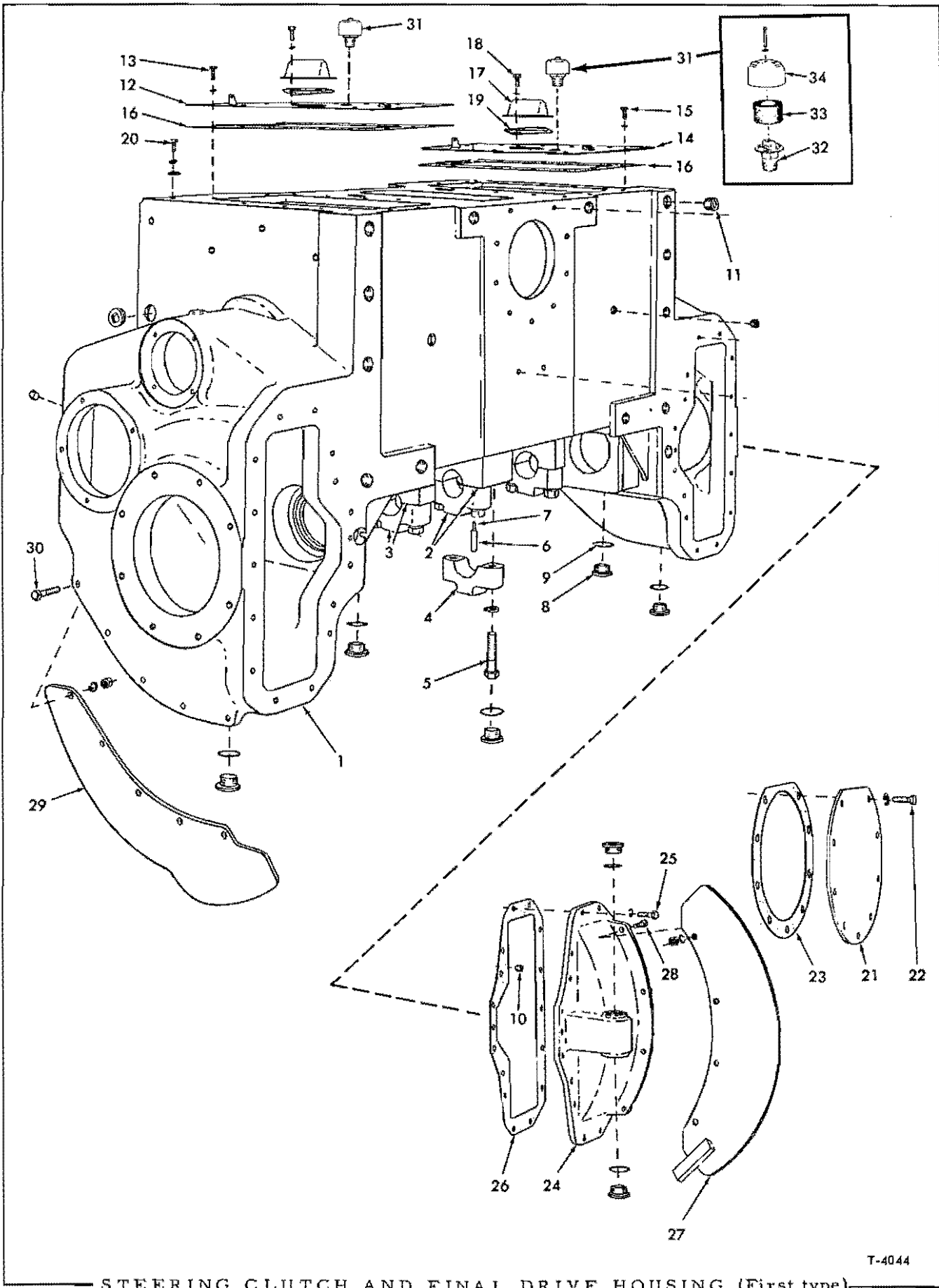
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
41	70078926	-	2	ELBOW, lubricating hose (90°, 1/4"NPT male and female) (Effective with tractor #4996)
	70901722	-	2	ELBOW, street, 90°, 1/4"NPT
42	70089301	-	1	LUBRICATION KIT, steering clutch throwout bearing (Consists of two each BUSHING 70044622, CLIP 70048164, HOSE 70082016, PIN 70088722, PIPE 70088723, HOSE 70088899, PLUG 70901652, COUPLING 70901763, BUSHING 70901825, LOCKWASHER 70904209, NUT 70911049 and FITTING 70914465) (Used prior to tractor #4996) (Not illustrated)



STEERING CLUTCHES

USAGE: Tractors serial No. 5154 and up, including No. 5104

ITEM	PART NO.	QTY.	DESCRIPTION
1	70623927	2	CLUTCH ASSEMBLY (Consists of items 3 thru 12)
2	70650813	20	BOLT, self-locking 5/8"NC x 1-7/8"
3	70623715	2	HUB, steering clutch
4	70048209	2	PLATE, back
5	70623877	30	DISC, friction (bimetallic)
6	70623876	30	DISC, friction (steel)(Use as req'd)
7	70059048	2	PLATE, pressure
8	70623878	18	SPRING, pressure
9	70059035	2	PLATE, throwout
10	70623879	18	SPACER, throwout plate
11	70052119	18	CAPSCREW, plate (drilled-hd., 1/2"NF x 6-1/2")
12	70023756	4	WIRE, locking, 1/16" x 26"
13	70623516	2	HUB, driving
14	70623783	2	WASHER ASSEMBLY, hub retaining (Includes item 17)
15	70630045	2	CAPSCREW, thin-hd., 1"NF x 1-3/4"
16	70630052	2	LOCK, capscrew
17	70035793	2	PIN, hub retaining washer
18	70623932	2	SLEEVE, throwout
19	70623007	2	CONE ASSEMBLY, clutch throwout bearing
20	70623008	2	CUP, clutch throwout bearing
21	70623003	2	RING, sealing, actuating piston, outer
22	70623929	2	PISTON, actuating
23	70623004	2	RING, sealing, actuating piston, inner
24	70040475	6	SPRING, throwout bearing ring
25	-----	2	RING, collector (Original equipment. Order 1 each RING 70642448, HOSE ASSEMBLY 70642447, PLUG 70921573, ELBOW 70921402)
	70642448	2	RING, collector (Service replacement)
	70921573	2	PLUG, hex-hd., 3/4"NF (Includes O-RING 70921349)
	70921349	2	O-RING, plug sealing
26	70035733	6	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	6	LOCKWASHER, 1/2"
27	70623662	2	TUBE ASSEMBLY, oil pressure (Includes nuts)(Original equipment)
	70919128	2	CONNECTOR, flare type, 1/2" tube, 1/2"NPT male
28	70642447	2	HOSE ASSEMBLY, oil pressure (See HOSE PARTS)(Service replacement)
	70921402	2	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4"NF (Includes washer, nut and O-RING 70921349)
	70921349	2	O-RING, elbow sealing
29	70628458	2	UNION, pressure tube



STEERING CLUTCH AND FINAL DRIVE HOUSING (First type)

T-4044

STEERING CLUTCH AND FINAL DRIVE HOUSING

USAGE: Tractors prior to serial No. 5154, excluding No. 5104

ITEM	PART NO.	QTY.	DESCRIPTION
1	70621311	1	HOUSING ASSY. (Includes items 2 thru 7 and 35 thru 37) (If for tractors prior to #4277 also order 2 BRACKETS 70099420, 2 SHIMS 70099428, 8 CAPSCREWS 70072595 and 8 LOCKWASHERS 70904369. If for tractors prior to #2903, excluding #2894 and #2896, add 2 CAGES 70094115, 4 SHIMS 70094116, 4 SHIMS 70094117, 30 SHIMS 70094118, 10 CAPSCREWS 70035229 and 10 LOCKWASHERS 70904209. If for tractors prior to #2142 add 2 COVERS 70091572 and 2 O-RINGS 70091569. If for tractors prior to #1002 add 2 BUSHINGS 70044622, 2 HOSES 70082016, 2 PINS 70088722, 2 BUSHINGS 70901825 and 2 FITTINGS 70914465)
	70904223	4	PLUG, pipe, ctsk-hd., 1/2"NPT (2 less used prior to tractor #2803)
	70904224	2	PLUG, pipe, ctsk-hd., 3/4"NPT (Used prior to tractor #2735)
	70907070	2	PLUG, pipe, ctsk-hd., 1/4"NPT (Used on tractors #2735 thru #2803)
	70901667	4	PLUG, pipe, ctsk-hd., 1-1/4"NPT
	70901652	2	PLUG, pipe, sq-hd., 1/4"NPT (Used on tractors #1002 thru #2843)
2	70096211	1	CAP ASSEMBLY, truck frame pivot shaft, inner
3	70096212	2	CAP ASSEMBLY, truck frame pivot shaft, outer
			<u>NOTE:</u> Each cap assembly listed above includes items 4 and 5; also upper block which requires welding to housing.
4	70059783	4	CAP, truck frame pivot shaft
5	70012762	8	CAPSCREW, 7/8"NF x 3-1/4"
	70905347	8	LOCKWASHER, 7/8"
6	70076726	2	WICK ASSEMBLY, pivot shaft lubricating (Consists of 1 pin and 1 WICK 70050357) (Also serves as dowel pin for pivot shaft)
7	70050357	2	WICK, pivot shaft lubricating
8	70035250	9	PLUG, filling and drain
9	70035249	9	GASKET, filling and drain plugs
10	70051496	2	PLUG, thread protecting (5/8"NC)
11	70052979	6	PLUG, thread protecting (socket-hd., 1-1/4"NF)
12	70099315	1	COVER, left steering clutch compartment
	70901655	1	PLUG, pipe, 3/4"NPT (Used prior to tractor #4265)
13	70070467	12	CAPSCREW, 1/2"NF x 1"
	70904208	12	LOCKWASHER, 1/2"
14	70099316	1	COVER, right steering clutch compartment
	70901655	1	PLUG, pipe, 3/4"NPT (Used prior to tractor #4265)
15	70070467	12	CAPSCREW, 1/2"NF x 1"
	70904208	12	LOCKWASHER, 1/2"
16	70059324	2	GASKET, steering clutch compartment covers

(Continued)

STEERING CLUTCH AND FINAL DRIVE HOUSING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
17	70052922	2	COVER, brake band adjuster
18	70070467	4	CAPSCREW, 1/2"NF x 1"
	70904208	4	LOCKWASHER, 1/2"
19	70066596	2	GASKET, brake band adjuster cover
20	70070467	2	CAPSCREW, hole plugging (1/2"NF x 1") (Also attaches battery ground cable)
	70904208	2	LOCKWASHER, 1/2"
	70906961	2	LOCKWASHER, internal teeth, 1/2"
21	70052977	1	COVER, bevel gear compartment (Removed when Power Take-Off is installed)
22	70035392	9	CAPSCREW, 5/8"NC x 1-1/4"
	70904209	9	LOCKWASHER, 5/8"
23	70052976	1	GASKET, bevel gear compartment cover
24	70059314	2	COVER, final drive compartment
25	70035018	32	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	32	LOCKWASHER, 1/2"
26	70059315	2	GASKET, final drive compartment covers
27	70621501	1	GUARD, track sprocket, upper left } Standard type
	70621502	1	
	70646091	1	GUARD, track sprocket, upper left } Special hvy-duty reinforced type
	70646092	1	
28	70035073	8	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	8	LOCKWASHER, 1/2"
	70911043	8	NUT, 1/2"NF
29	70621497	1	GUARD, track sprocket, lower left } Standard type
	70621498	1	
	70621565	1	GUARD, track sprocket, lower left } Special hvy-duty reinforced type
	70621566	1	
30	70035067	10	CAPSCREW, 1/2"NF x 2"
	70904208	10	LOCKWASHER, 1/2"
	70911043	10	NUT, 1/2"NF
31	73002766	2	BREATHER ASSEMBLY, brake compartment (Consists of items 32 thru 34) (Effective with tractors #4265)
32	-----	2	BODY, breather (Not serviced separately)
33	73002769	2	ELEMENT, filtering
34	-----	2	COVER, breather (Not serviced separately)
	70914172	2	SCREW, machine, #10NF x 1-1/4"
	70904203	2	LOCKWASHER, #10

Not for Models
HD16FC, GC.
See page 335.

Not for Models
HD16FC, GC.
See page 335.

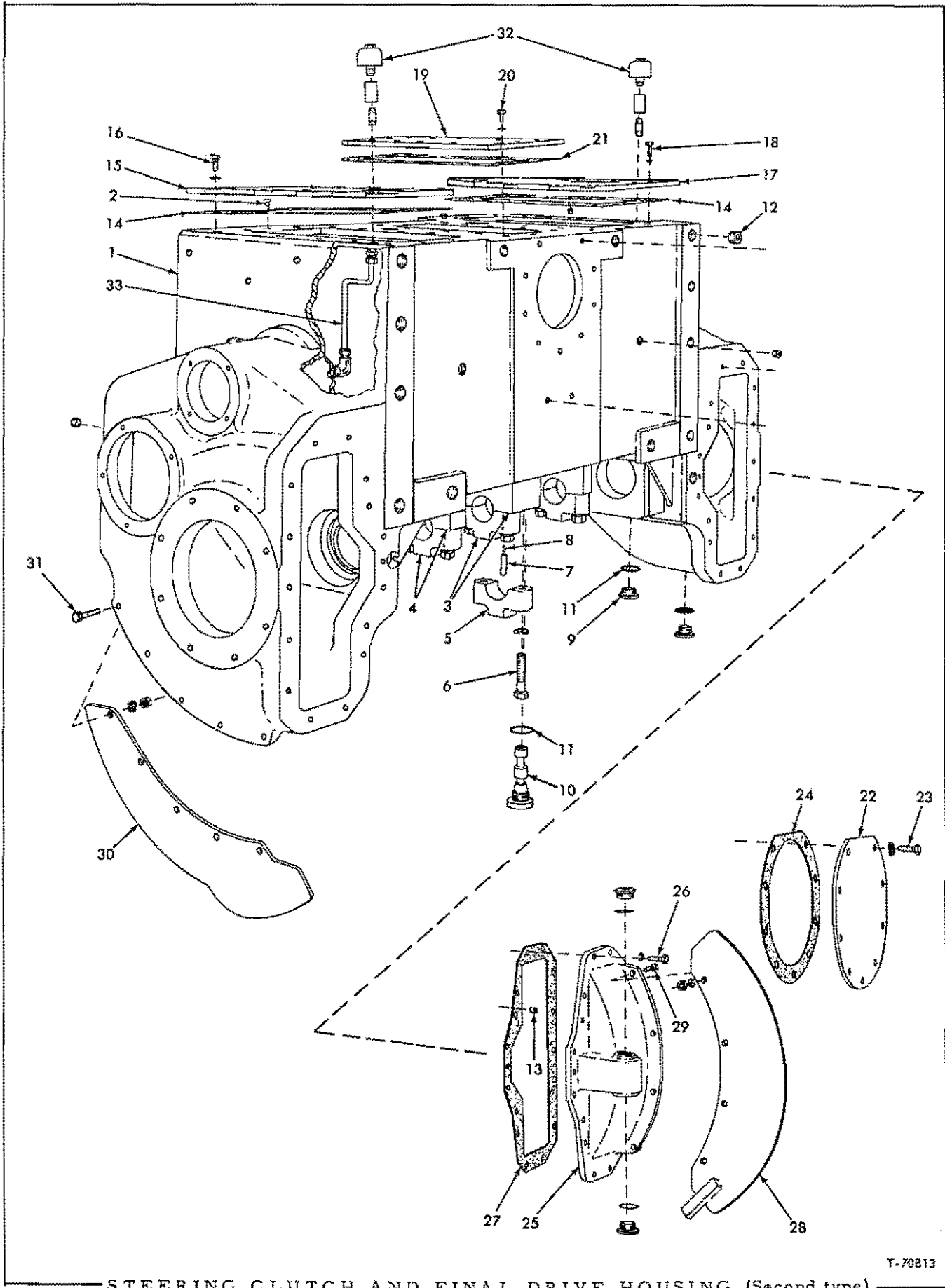
(Continued)

STEERING CLUTCH AND FINAL DRIVE HOUSING (Continued)

ITEM PART NO. QTY. DESCRIPTION

NOTE: Items listed below are furnished with service replacement housing to adapt same to older units without transmission oil pump

35	70621310	1	PLATE, cover, suction line hole	} Not illustrated
36	70012992	2	CAPSCREW, 3/8"NF x 1-1/4"	
	70917264	2	WASHER, copper, 3/8"	
37	70098941	1	GASKET, cover plate	



STEERING CLUTCH AND FINAL DRIVE HOUSING (Second type)

T-70813

STEERING CLUTCH AND FINAL DRIVE HOUSING

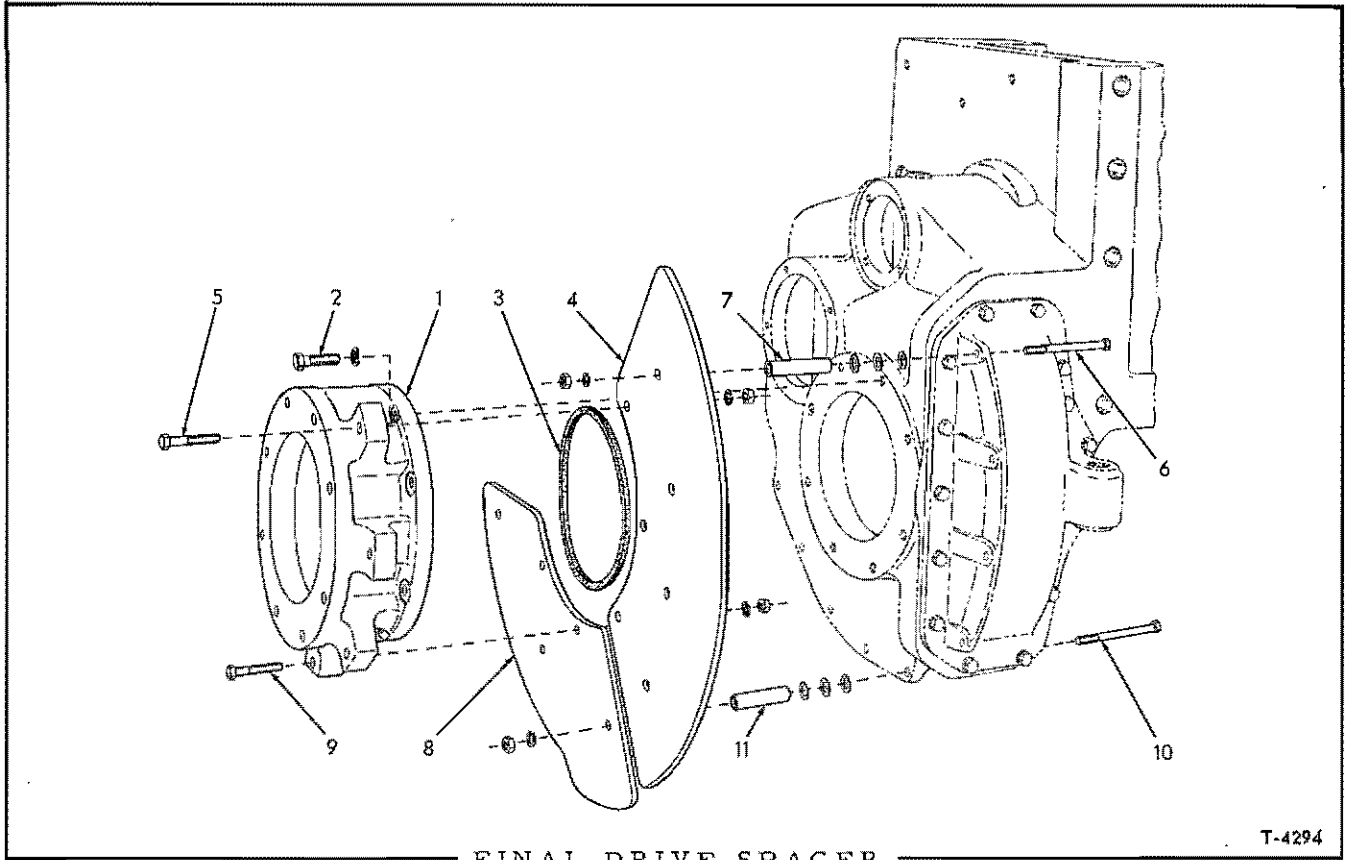
USAGE: Tractors serial No. 5154 and up, including No. 5104

ITEM	PART NO.	QTY.	DESCRIPTION
1	70623901	1	HOUSING ASSEMBLY (Includes items 2 thru 8)
	70904223	4	PLUG, pipe, ctsk-hd., 1/2"NPT
2	70643740	2	PIN, dowel, clutch compartment covers
3	70096211	1	CAP ASSEMBLY, truck frame pivot shaft, inner
4	70096212	2	CAP ASSEMBLY, truck frame pivot shaft, outer
<u>NOTE:</u> Each cap assembly listed above includes items 5 and 6; also upper block which requires welding to housing			
5	70059783	4	CAP, truck frame pivot shaft
6	70012762	8	CAPSCREW, 7/8"NF x 3-1/4"
	70905347	8	LOCKWASHER, 7/8"
7	70076726	2	WICK ASSEMBLY, pivot shaft lubricating (Consists of 1 pin and 1 WICK 70050357)(Also serves as dowel pin for pivot shaft)
8	70050357	2	WICK, pivot shaft lubricating
9	70035250	8	PLUG, filling and drain
10	70067543	1	PLUG, drain (magnetic)
11	70035249	9	GASKET, filling and drain plugs
12	70052979	6	PLUG, thread protecting (socket-hd., 1-1/4"NF)
13	70051496	2	PLUG, thread protecting (5/8"NC)
14	70623636	2	GASKET, clutch compartment covers
15	70623547	1	COVER, clutch compartment, left
16	70035068	9	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	9	LOCKWASHER, 1/2"
17	70623548	1	COVER, clutch compartment, right
	70908944	1	PLUG, pipe, hex-socket, 1/2"NPT
18	70035068	9	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	9	LOCKWASHER, 1/2"
19	70622901	1	COVER, bevel gear compartment, top
20	70035018	12	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	12	LOCKWASHER, 1/2"
21	70622902	1	GASKET, top cover, bevel gear compartment
22	70052977	1	COVER, bevel gear compartment, rear (Removed when Power Take-Off is installed)
23	70921731	9	CAPSCREW, NYLOK, 5/8"NC x 1-1/4"
	70904209	9	LOCKWASHER, 5/8"
24	70052976	1	GASKET, rear bevel gear compartment cover

(Continued)

STEERING CLUTCH AND FINAL DRIVE HOUSING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
25	70059314	2	COVER, final drive compartment
26	70035018	32	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	32	LOCKWASHER, 1/2"
27	70059315	2	GASKET, final drive compartment covers
28	70621501	1	GUARD, track sprocket, upper left } Standard type
	70621502	1	
	70646091	1	GUARD, track sprocket, upper left } Special hvy-duty reinforced type
	70646092	1	
29	70035073	8	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	8	LOCKWASHER, 1/2"
	70911043	8	NUT, 1/2"NF
30	70621497	1	GUARD, track sprocket, lower left } Standard type
	70621498	1	
	70621565	1	GUARD, track sprocket, lower left } Special hvy-duty reinforced type
	70621566	1	
31	70035067	10	CAPSCREW, 1/2"NF x 2"
	70904208	10	LOCKWASHER, 1/2"
	70911043	10	NUT, 1/2"NF
32	70050748	2	BREATHER, final drive
	70901765	2	COUPLING, pipe, 3/8"NPT
	70901489	2	NIPPLE, pipe, 3/8"NPT x 1"
33	70623787	2	TUBE ASSEMBLY, final drive breather (Includes nuts)
	70919464	2	ELBOW, flare type, 45°, 1/4" tube, 1/8"NPT male
	70919171	2	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male

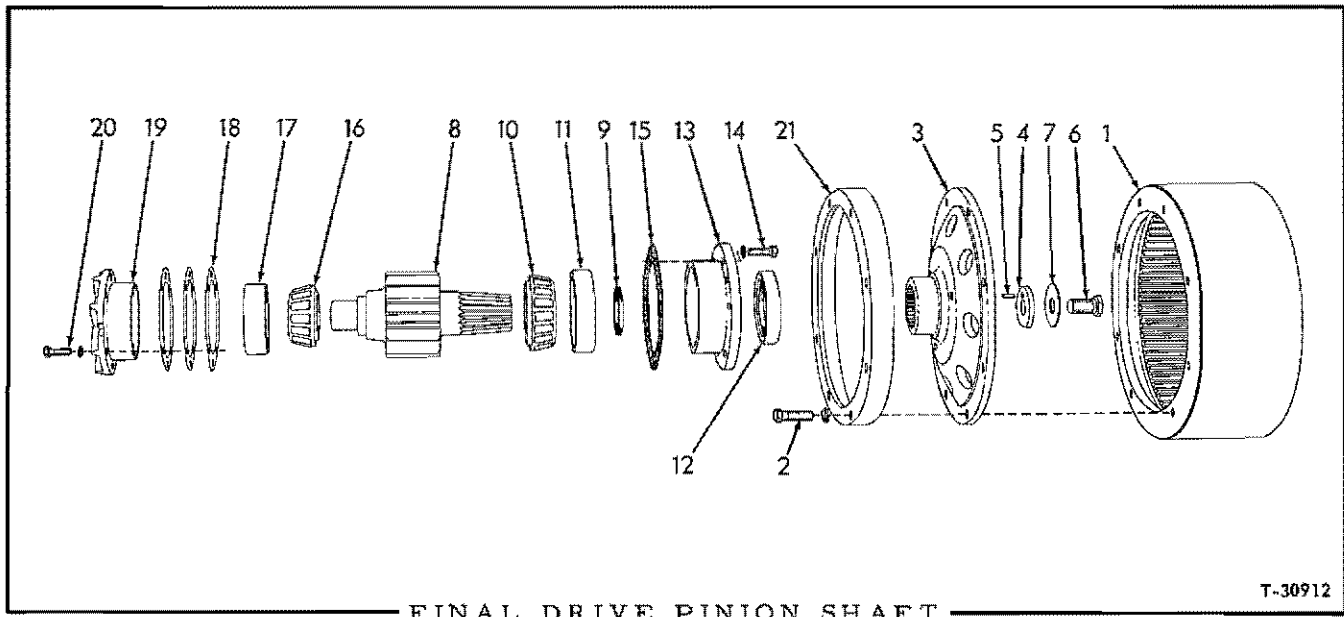


FINAL DRIVE SPACER

T-4294

USAGE: Models HD16FC, GC

ITEM	PART NO.	QTY.	DESCRIPTION
1	70073831	1	SPACER, final drive, left
	70073832	1	SPACER, final drive, right
2	70035229	16	CAPSCREW, 5/8"NF x 2"
	70904209	16	LOCKWASHER, 5/8"
3	70073824	2	GASKET, spacer to housing
4	70621505	1	GUARD, track sprocket, upper left
	70621506	1	GUARD, track sprocket, upper right
5	70035892	6	CAPSCREW, 1/2"NF x 2-1/2"
6	70057984	8	CAPSCREW, 1/2"NF x 5-3/4"
	70904208	14	LOCKWASHER, 1/2"
	70911043	14	NUT, 1/2"NF
	70910244	24	WASHER, plain, SAE std., 1/2"
7	70073823	8	SPACER, upper guard to housing
8	70639171	2	GUARD, track sprocket, lower left
	70639172	2	GUARD, track sprocket, lower right
9	70035892	4	CAPSCREW, 1/2"NF x 2-1/2"
10	70057984	6	CAPSCREW, 1/2"NF x 5-3/4"
	70904208	10	LOCKWASHER, 1/2"
	70911043	10	NUT, 1/2"NF
	70910244	18	WASHER, plain, SAE std., 1/2"
11	70073822	6	SPACER, lower guard to housing



* Tractors prior to serial No. 5154, excluding No. 5104
 ** Tractors serial No. 5154 and up, including No. 5104

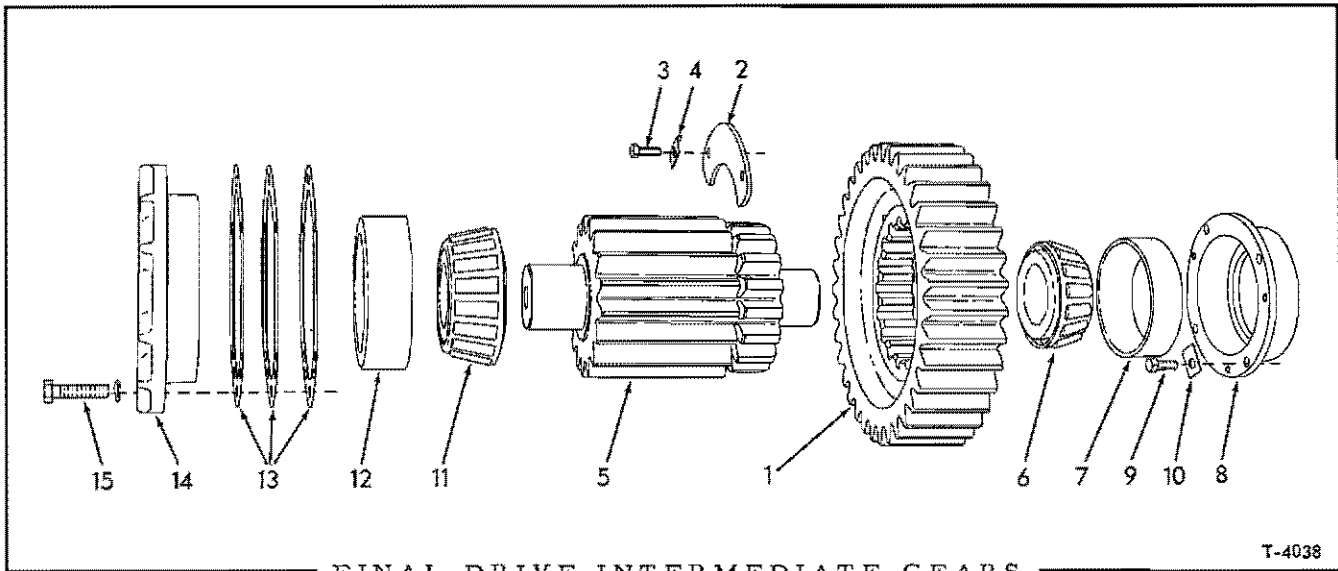
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70059051	2	-	DRUM, brake (Used prior to tractor #4560, excluding EXCEPTIONS below)
	70099270	2	-	DRUM ASSEMBLY, brake (Includes items 2 and 21)(Effective with tractor #4560, including EXCEPTIONS below)
	70623928	-	2	DRUM, brake
2	70090767	16	-	CAPSCREW, drilled-hd., 1/2"NC x 1-3/16" (Used prior to tractor #4560, excluding EXCEPTIONS below)
	70099269	16	-	CAPSCREW, drilled-hd., 5/8"NC x 1-3/4" (Effective with tractor #4560, including EXCEPTIONS below)
	70623002	-	16	CAPSCREW, 5/8"NC x 1-1/2"
	70023756	8	-	WIRE, locking, 1/16" x 26"
	70915942	-	16	LOCKWASHER, ext-int, 5/8"
3	70058149	2	-	HUB, brake drum (Used prior to tractor #4560, excluding EXCEPTIONS below)
	70099291	2	-	HUB, brake drum (Effective with tractor #4560, including EXCEPTIONS below)
	70623781	-	2	HUB, brake drum
4	70623783	2	2	WASHER ASSEMBLY, hub retaining (Includes item 5)
5	70035793	2	2	PIN, hub retaining washer
6	70630045	2	2	CAPSCREW, hub retaining (thin-hd., 1"NF x 1-3/4")
7	70630052	2	2	LOCK, hub retaining cap screw

(Continued)

FINAL DRIVE PINION SHAFT (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
8	70058707	2	2	PINION (14 teeth)
9	70075400	2	-	SEAL, oil (rubber)
	70623786	-	2	SEAL, oil (rubber)
10	70069441	2	2	CONE ASSEMBLY, inner bearing
11	70069328	2	2	CUP, inner bearing
12	70628894	2	-	SEAL, oil, brake drum hub
	70623784	-	2	SEAL, oil, brake drum hub
13	70058722	2	-	CAGE ASSEMBLY, inner bearing cup (Includes PLUG indented below)
	70901651	2	-	PLUG, pipe, 1/8"NPT (Not original equipment)
	70623782	-	2	CAGE, inner bearing cup
14	70035018	12	12	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	12	12	LOCKWASHER, 1/2"
15	70058875	2	2	GASKET, bearing cage
16	70643276	2	2	CONE ASSEMBLY, outer bearing
17	70643275	2	2	CUP, outer bearing
18	70058843	4	4	SHIM, bearing adjustment (.005" thick. Use as required)
	70058842	4	4	SHIM, bearing adjustment (.007" thick. Use as required)
	70058841	14	14	SHIM, bearing adjustment (.010" thick. Use as required)
19	70083792	2	2	CAGE, outer bearing cup
20	70035018	8	8	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	8	8	LOCKWASHER, 1/2"
21	-----	2	-	RING, extension, brake drum (Not serviced separately)(Effective with tractor #4560 including EXCEPTIONS below)

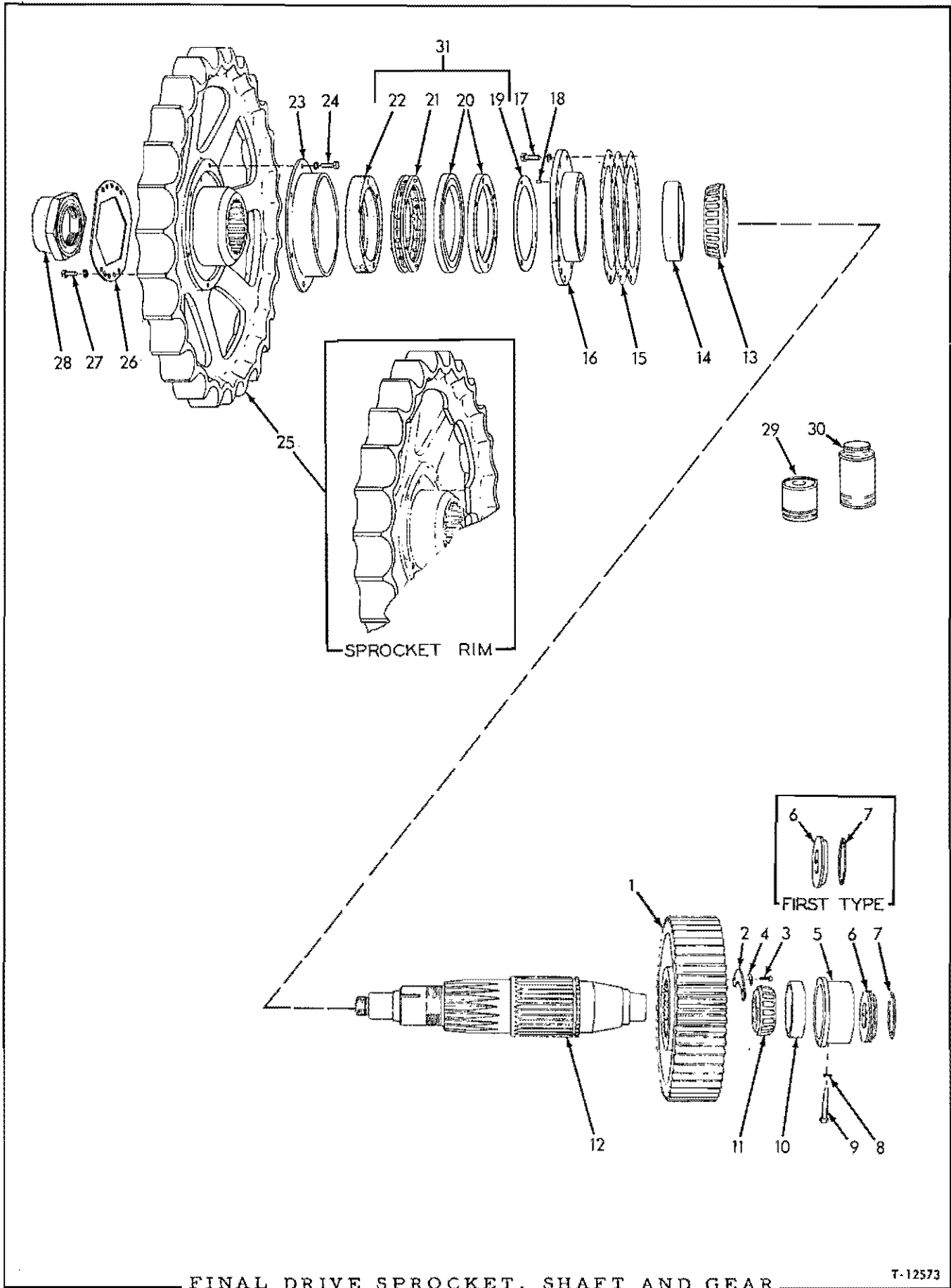
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* Used prior to tractor serial No. 2903 excluding Nos. 2894 and 2896
 ** Effective with tractor serial No. 2903 including Nos. 2894 and 2896

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70058572	2	2	GEAR (35 teeth)
2	70058825	4	4	LOCK, gear
3	70035439	8	8	CAPSCREW, 3/8"NC x 1"
4	70052444	8	8	LOCK, cap screw
5	70622806	2	2	PINION (17 teeth)
6	70052071	2	2	CONE ASSEMBLY, inner bearing
7	70052070	2	2	CUP, inner bearing
8	70067535	2	2	CAGE, inner bearing cup
9	70035439	8	8	CAPSCREW, 3/8"NC x 1"
10	70049936	8	8	LOCK, cap screw
11	70069327	2	2	CONE ASSEMBLY, outer bearing
12	70604398	2	2	CUP, outer bearing
13	70094116	4	4	SHIM, bearing adjustment (.005 thick. Use as required)
	70094117	4	4	SHIM, bearing adjustment (.007 thick. Use as required)
	70094118	30	30	SHIM, bearing adjustment (.010 thick. Use as required)
14	70083859	2	-	CAGE, outer bearing cup
	70094115	-	2	CAGE, outer bearing cup
15	70035018	10	-	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	10	-	LOCK WASHER, 1/2"
	70035229	-	10	CAPSCREW, 5/8"NF x 2"
	70904209	-	10	LOCK WASHER, 5/8"

MEMO



FINAL DRIVE SPROCKET, SHAFT AND GEAR

T-12573

FINAL DRIVE SPROCKET, SHAFT AND GEAR

* Models HD16A, AC, D, DC (74" tread)

** Models HD16FC, GC (84" tread)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70622807	2	2	GEAR (52 teeth)
2	70052161	4	4	LOCK, gear
3	70035439	8	8	CAPSCREW, 3/8"NC x 1"
4	70052444	8	8	LOCK, capscrew
5	70067534	2	-	CAGE, inner bearing (5-3/8" bore)
	70073825	-	2	CAGE, inner bearing (5-11/32" bore)
6	70058853	2	2	COVER, inner bearing (Used prior to tractor #2142)
	70091572	2	2	COVER, inner bearing (Effective with tractor #2142)
7	70923833	2	2	O-RING, inner bearing cover (4-1/4"O.D.) (Used prior to tractor #2142)
	70923821	2	2	O-RING, inner bearing cover (4-7/8"O.D.) (Effective with tractor #2142)
8	70049918	2	2	WASHER, bearing cage setscrew (copper)
9	70067348	2	2	SETSCREW, bearing cage (hex-hd., dog-pt., 5/8"NF x 3")
10	70069328	2	-	CUP, inner bearing (1-1/4" wide)
	70605334	-	2	CUP, inner bearing (1-3/4" wide)
11	70069441	2	-	CONE ASSEMBLY, inner bearing (2-13/16" I.D.)
	70605335	-	2	CONE ASSEMBLY, inner bearing (2-9/16" I.D.)
12	70622136	2	-	SHAFT, sprocket (28" long)
	70622193	-	2	SHAFT, sprocket (33" long)
13	70051998	2	2	CONE ASSEMBLY, intermediate bearing
14	70049487	2	2	CUP, intermediate bearing
15	70067518	4	4	SHIM, bearing adjustment (.005" thick. Use as req'd)
	70067519	4	4	SHIM, bearing adjustment (.007" thick. Use as req'd)
	70067520	26	26	SHIM, bearing adjustment (.010" thick. Use as req'd)
16	70083509	2	2	CAGE ASSEMBLY, intermediate bearing cup (Includes item 18)
17	70023465	16	-	CAPSCREW, 5/8"NF x 1-3/4"
	70023618	-	16	CAPSCREW, 5/8"NF x 2-1/2"
	70904209	16	16	LOCKWASHER, 5/8"
	70911044	-	16	NUT, 5/8"NF
18	70084432	6	6	PIN, locating, seal ring
19	70052408	2	2	GASKET, inner seal ring
20	70080488	4	4	RING, inner seal

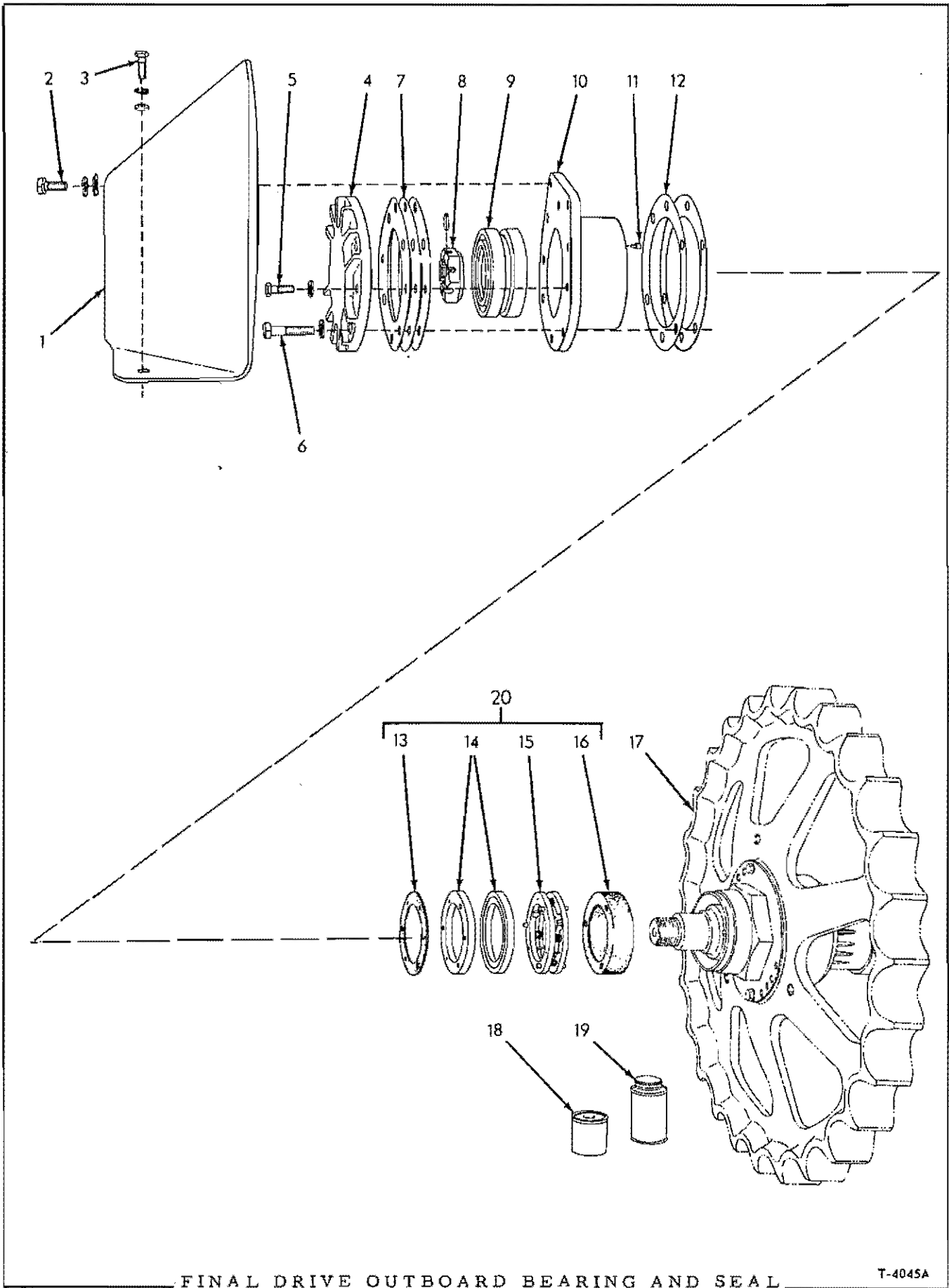
} See item 31

(Continued)

FINAL DRIVE SPROCKET, SHAFT AND GEAR (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
21	70052611	2	2	FOLLOWER ASSEMBLY, inner seal (Serviced only as a unit)	} See item 31
22	70052612	2	2	BOOT, inner seal	
23	70083504	2	2	GUARD, seal (Used prior to tractor #4495)	
	70052426	2	2	GUARD, seal (Effective with tractor #4495)	
24	70035221	12	12	CAPSCREW, 1/2"NC x 1"	} Used prior to tractor #4495.
	70904208	12	12	LOCKWASHER, 1/2"	
	70035440	8	8	CAPSCREW, 5/8"NC x 1-1/2"	} Effective with tractor #4495
	70904209	8	8	LOCKWASHER, 5/8"	
25	70098683	2	2	SPROCKET, track driving (Standard)(Used prior to tractor #2727. When making first replacement also order 1 GUARD 70052426, 4 CAPSCREWS 70035440 and 4 LOCKWASHERS 70904209)	
	70629072	2	2	SPROCKET, track driving (Standard)(Effective with tractor #2727. If for tractors prior to #4495, also order 1 GUARD 70052426, 4 CAPSCREWS 70035440 and 4 LOCKWASHERS 70904209)	
	70098630	2	2	SPROCKET, track driving (Special. Has skeleton tooth-base to minimize packing of track)(Used prior to tractor #2727. When making first replacement, also order 1 GUARD 70052426, 4 CAPSCREWS 70035440 and 4 LOCKWASHERS 70904209)	
	70629268	2	2	SPROCKET, track driving (Special. Has skeleton tooth-base to minimize packing of track)(Effective with tractor #2727. If for tractors prior to #4495, also order 1 GUARD 70052426, 4 CAPSCREWS 70035440 and 4 LOCKWASHERS 70904209)	
	70629271	2	2	SPROCKET RIM (Standard type. Requires welding to install)(Effective with tractor #2727)	
26	70083518	2	2	LOCK, sprocket retaining nut	
27	70035221	4	4	CAPSCREW, 1/2"NC x 1"	
	70904208	4	4	LOCKWASHER, 1/2"	
28	70083507	2	2	NUT, sprocket retaining	
29	70033288	-	-	CEMENT, neoprene, 1/2 pint can	} For cementing all boots and gaskets
30	70054890	-	-	SOLVENT, neoprene, 1/2 pint can	
31	70073764	2	2	SEAL KIT, final drive (Includes parts for one (1) side only; items 19 thru 22)	

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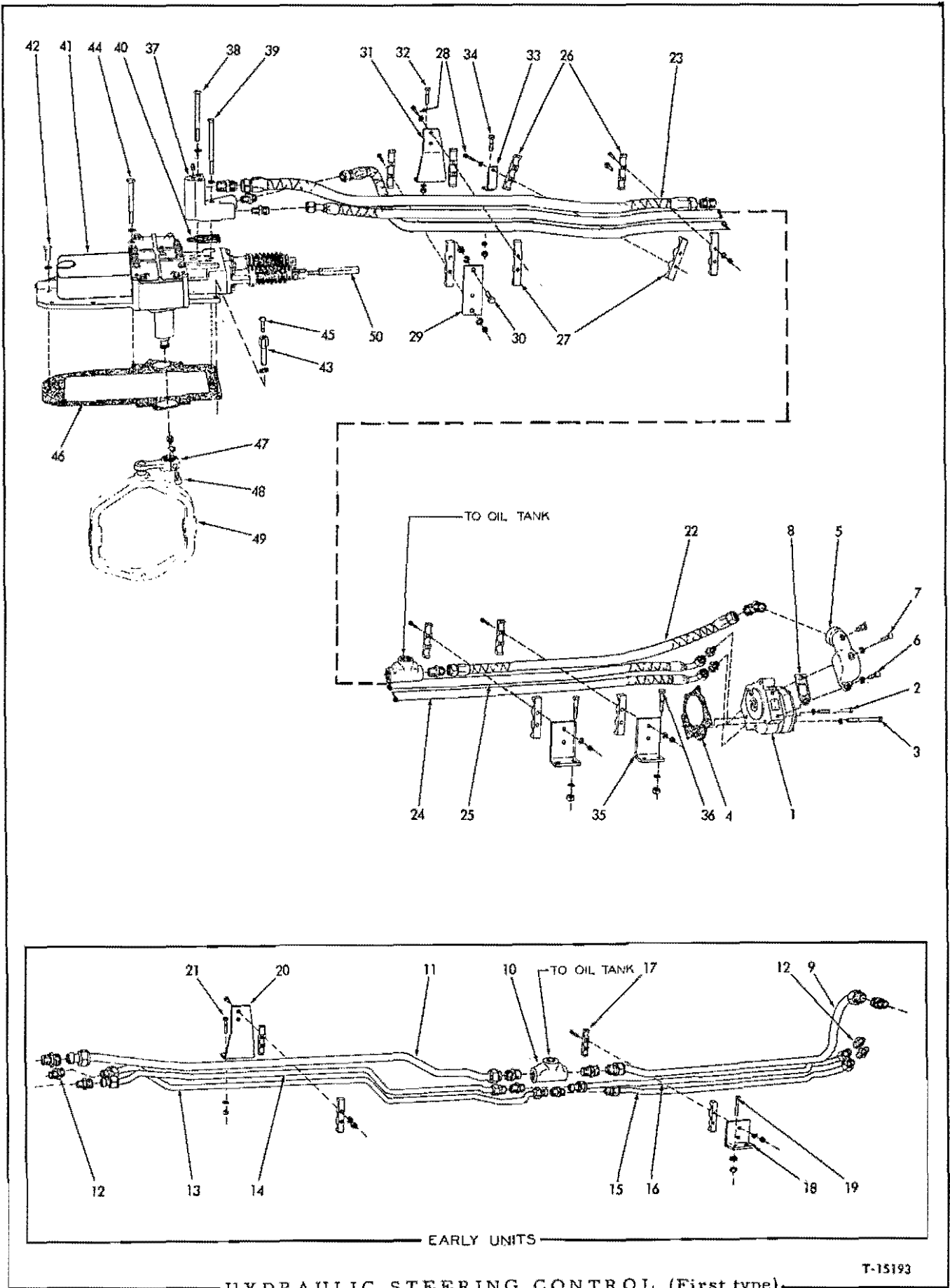


FINAL DRIVE OUTBOARD BEARING AND SEAL

ITEM	PART NO.	QTY.	DESCRIPTION
1	70083506	2	GUARD, track sprocket
2	70035440	4	CAPSCREW, 5/8"NC x 1-1/4"
	70904209	4	LOCKWASHER, 5/8"
	70911100	4	WASHER, plain, SAE std., 5/8"
3	70035018	4	CAPSCREW, 1/2"NF x 1-1/2"
	70064531	4	WASHER, plain
	70904208	4	LOCKWASHER, 1/2"
4	70083505	2	COVER, outboard bearing
5	70035018	4	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	4	LOCKWASHER, 1/2"
6	70070161	12	CAPSCREW, 5/8"NF x 2-3/4"
	70904209	12	LOCKWASHER, 5/8"
7	70083517	4	SHIM, bearing adjustment (.005" thick. Use as required)
	70083516	4	SHIM, bearing adjustment (.007" thick. Use as required)
	70083515	8	SHIM, bearing adjustment (.010" thick. Use as required)
8	70083501	2	NUT, retaining, outboard bearing
	70916227	2	PIN, roll, 1/4" x 1"
9	70083503	2	BEARING, roller, outboard (Each consists of 1 roller assembly and 2 cups. Serviced only as a unit)
10	70083511	2	CAGE, outboard bearing
11	70084432	6	PIN, locating, seal ring
12	70069072	12	SHIM, bearing cage spacing (.015" thick. Use as required)
13	70062098	2	GASKET, outer seal ring
14	70080487	4	RING, outer seal
15	70052543	2	FOLLOWER ASSEMBLY, outer seal (Serviced only as a unit)
16	70052545	2	BOOT, outer seal
17	-----	2	SPROCKET (See FINAL DRIVE SPROCKET AND GEAR)
18	70033288	-	CEMENT, neoprene, 1/2 pint can
19	70054890	-	SOLVENT, neoprene cement, 1/2pint can
20	70073765	2	SEAL KIT, final drive (Includes parts for one (1) side only; items 13 thru 16)

} See item 20

} For cementing boots and gaskets



HYDRAULIC STEERING CONTROL (First type)

T-15193

HYDRAULIC STEERING CONTROL

USAGE: Tractors prior to serial No. 4001

* Tractors prior to serial No. 1275

** Tractors serial No. 1275 and up

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70082781	1	1	PUMP ASSEMBLY, hydraulic (See page 356 for parts)(Original equipment. Order PUMP ASSY. 70099915 and 2 CAPSCREW 70622781)
	70099915	1	1	PUMP ASSEMBLY, hydraulic (See page 357 for parts)(Service replacement)
2	70082937	3	3	CAPSCREW, 3/8"NC x 4-1/2"
	70904206	3	3	LOCKWASHER, 3/8"
3	70082936	2	2	CAPSCREW, 7/16"NC x 4-1/2" (For PUMP ASSY. 70082781)
	70622781	2	2	CAPSCREW, 7/16"NC x 4-7/8" (For PUMP ASSY. 70099915)
	70904207	2	2	LOCKWASHER, 7/16"
4	70082810	1	1	GASKET, hydraulic pump
5	70082812	1	1	ELBOW, front oil return tube
	70914453	1	1	COCK, vent, 1/8"NPT (Effective with tractor #2727)
6	70041250	1	1	CAPSCREW, 7/16"NC x 1-1/4"
7	70082905	1	1	CAPSCREW, 7/16"NC x 3-1/4"
	70904207	2	2	LOCKWASHER, 7/16"
8	70082811	1	1	GASKET, elbow
9	70084907	1	-	TUBE ASSEMBLY, oil return, front section (Includes 2 nuts, 2 ferrules and 2 RINGS 70917692)
	70917692	2	-	RING, Sealastic, 1" tube (No ferrule included)
	70915534	2	-	CONNECTOR, Sealastic, 1" tube, 1"NPT male
10	70082891	1	1	TEE, oil return line
11	70082134	1	-	TUBE ASSEMBLY, oil return, rear section (Includes 1 RING 70917691 and 1 FERRULE)
	70917692	1	-	RING, Sealastic, 1" tube (no ferrule included)
	70917770	1	-	RING, Sealastic, 1" tube (Includes ferrule)
	70918566	2	-	NUT, Sealastic, 1" tube
	70915534	2	-	CONNECTOR, Sealastic, 1" tube, 1"NPT male
12	70066554	4	-	CONNECTOR, oil supply tubes (1/2"NPT and 1-3/16"EF male ends)
	70084867	1	-	TUBE ASSEMBLY, oil supply, left clutch control, rear section (Includes 1 RING 70917691 and 1 FERRULE)
	70917691	1	-	RING, Sealastic, 3/4" tube (No ferrule included)
	70918605	1	-	RING, Sealastic, 3/4" tube (Includes ferrule)
	70918234	2	-	NUT, Sealastic, 3/4" tube
14	70915560	1	-	UNION, Sealastic, 3/4" tube
	70084974	1	-	TUBE ASSEMBLY, oil supply, right clutch control, rear section (Includes 1 RING 70917692 and 1 FERRULE)
	70917691	1	-	RING, Sealastic, 3/4" tube (No ferrule included)
	70918605	1	-	RING, Sealastic, 3/4" tube (Includes ferrule)
	70918234	2	-	NUT, Sealastic, 3/4" tube
	70915560	1	-	UNION, Sealastic, 3/4" tube

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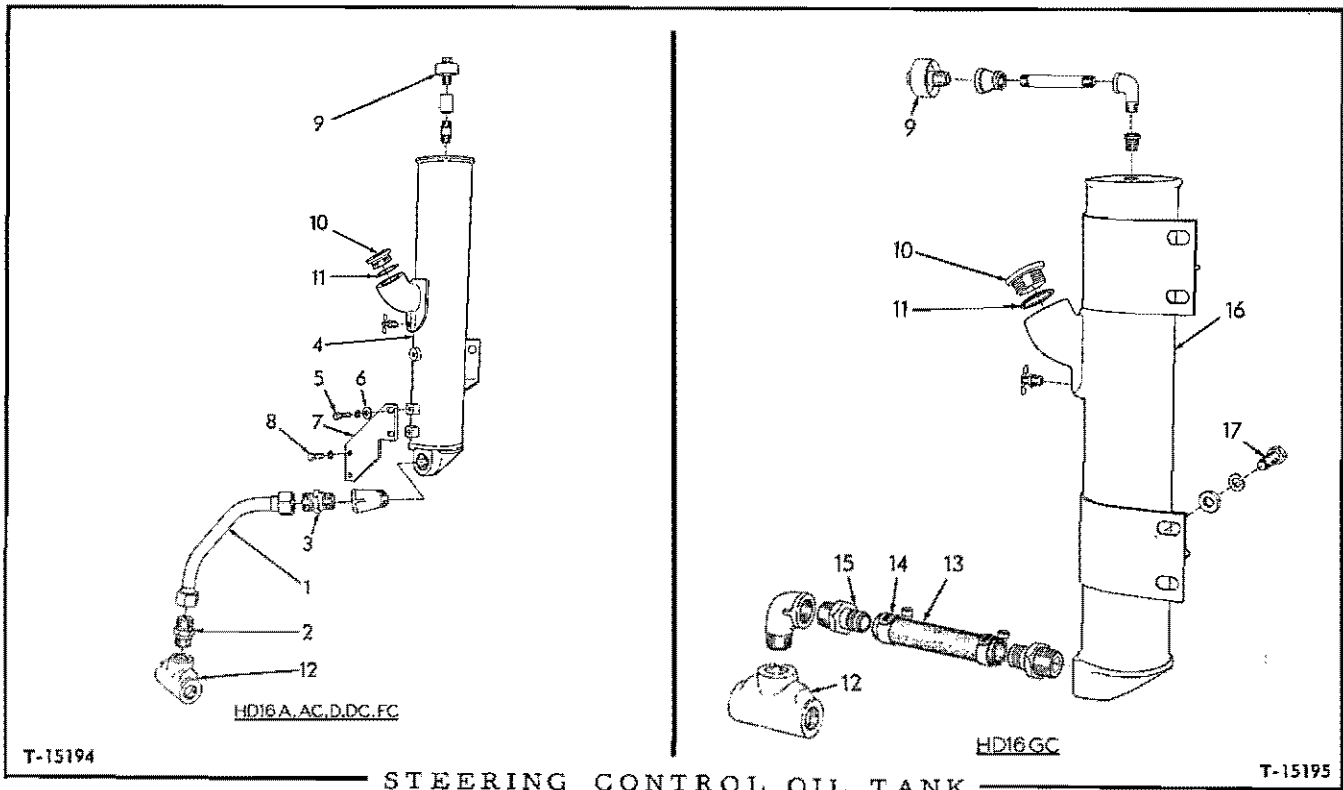
HYDRAULIC STEERING CONTROL (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
15	70084863	1	-	TUBE ASSEMBLY, oil supply, left clutch control, front section (Includes 2 nuts, 2 ferrules and 2 RINGS 70917691)
	70917691	2	-	RING, Sealastic, 3/4" tube (No ferrule included)
16	70084894	1	-	TUBE ASSEMBLY, oil supply, right clutch control, front section (Includes 2 nuts, 2 ferrules and 2 RINGS 70917691)
	70917691	2	-	RING, Sealastic, 3/4" tube (No ferrule included)
17	70056407	4	-	CLAMP, tube supporting (half only)
	70913611	4	-	CAPSCREW, 3/8"NF x 2-1/2"
	70904206	4	-	LOCKWASHER, 3/8"
	70911041	4	-	NUT, 3/8"NF
18	70081842	1	-	ANGLE, tube supporting clamps
19	70035712	2	-	CAPSCREW, 1/2"NC x 2-1/4"
	70904208	2	-	LOCKWASHER, 1/2"
	70911043	2	-	NUT, 1/2"NC
20	70081861	1	-	BRACKET, tube supporting clamps
21	70035067	2	-	CAPSCREW, 1/2"NF x 2"
	70904208	2	-	LOCKWASHER, 1/2"
	70911043	2	-	NUT, 1/2"NF
22	70083634	-	1	HOSE ASSEMBLY, oil return, front section (See HOSE PARTS)
	70920693	-	1	ELBOW, flare type, 45°, 1" tube, 1"NPT male
	70919064	-	1	CONNECTOR, flare type, 1" tube, 1"NPT male
23	70084002	-	1	HOSE ASSEMBLY, oil return, rear section (See HOSE PARTS)
	70919064	-	2	CONNECTOR, flare type, 1" tube, 1"NPT male
24	70089716	-	1	HOSE ASSEMBLY, oil supply, left clutch control (See HOSE PARTS)
	70919615	-	2	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male
25	70084032	-	1	HOSE ASSEMBLY, oil supply, right clutch control (See HOSE PARTS)
	70919615	-	2	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male
26	70089583	-	10	CLAMP, hose supporting (Half only. Plain holes)
	70913611	-	8	CAPSCREW, 3/8"NF x 2-1/2" (2 additional used on Model HD16GC)
	70904206	-	8	LOCKWASHER, 3/8"
	70911041	-	8	NUT, 3/8"NF
27	70089729	-	2	CLAMP, hose supporting (Half only. Threaded holes)
28	70035336	-	4	CAPSCREW, 3/8"NF x 1-3/4" (1 less used on Models HD16FC, GC)
	70914339	-	1	CAPSCREW, 3/8"NF x 2-3/4" (Models HD16FC, GC only)
	70904206	-	4	LOCKWASHER, 3/8"
29	70089616	-	1	PLATE, hose supporting clamps
30	70070469	-	1	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	-	1	LOCKWASHER, 1/2"
	70911043	-	1	NUT, 1/2"NF
31	70628526	-	1	BRACKET, hose supporting clamps
32	70035067	-	2	CAPSCREW, 1/2"NF x 2"
	70904208	-	2	LOCKWASHER, 1/2"
	70911043	-	2	NUT, 1/2"NF

(Continued)

HYDRAULIC STEERING CONTROL (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
33	70089611	-	1	ANGLE, hose supporting clamps (1 additional used on Model HD16GC effective with tractor #1507)
34	70070403	-	1	CAPSCREW, 1/2"NF x 3" (All models except HD16GC)
	70042430	-	2	CAPSCREW, 1/2"NF x 3-1/4" (Model HD16GC only)
	70904208	-	1	LOCKWASHER, 1/2"
	70911043	-	1	NUT, 1/2"NF
				} 1 additional used on Model HD16GC
35	70089612	-	2	ANGLE, hose supporting clamps
36	70035712	-	4	CAPSCREW, 1/2"NC x 2-1/4"
	70904208	-	4	LOCKWASHER, 1/2"
	70911028	-	4	NUT, 1/2"NC
37	70069518	1	1	MANIFOLD, hose connection
	70901652	1	1	PLUG, pipe, 1/4"NPT
38	70046590	2	2	CAPSCREW, 1/2"NC x 5-1/4"
39	70057984	1	1	CAPSCREW, 1/2"NF x 5-3/4"
	70904208	3	3	LOCKWASHER, 1/2"
40	70057841	1	1	GASKET, manifold
41	70057851	1	1	VALVE ASSEMBLY, steering clutch throwout (Original equipment. Order Valve Assembly 70099865)
	70099865	1	1	VALVE ASSEMBLY, steering clutch throwout (Service replacement)
				} See page 359 for parts
42	70070469	7	7	CAPSCREW, 1/2"NF x 1-1/4" (1 less used effective with approx. tractor #2727)
43	70094543	-	1	CAPSCREW (drilled for breather)(Effective with approx. tractor #2727)
44	70037461	4	4	CAPSCREW, 1/2"NF x 4-3/4"
	70904208	11	11	LOCKWASHER, 1/2"
45	70051447	-	1	BREATHER (Effective with approx. tractor #2727)
46	70057836	1	1	GASKET, steering clutch throwout valve
47	70059028	2	2	LEVER, actuating, lower
48	70035068	2	2	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	2	2	LOCKWASHER, 1/2"
	70911043	2	2	NUT, 1/2"NF
49	-----	-	-	YOKE (See STEERING CLUTCHES)
50	-----	-	-	ROD (See STEERING LEVERS AND LINKAGE)



STEERING CONTROL OIL TANK

USAGE: Tractors prior to serial No. 4001

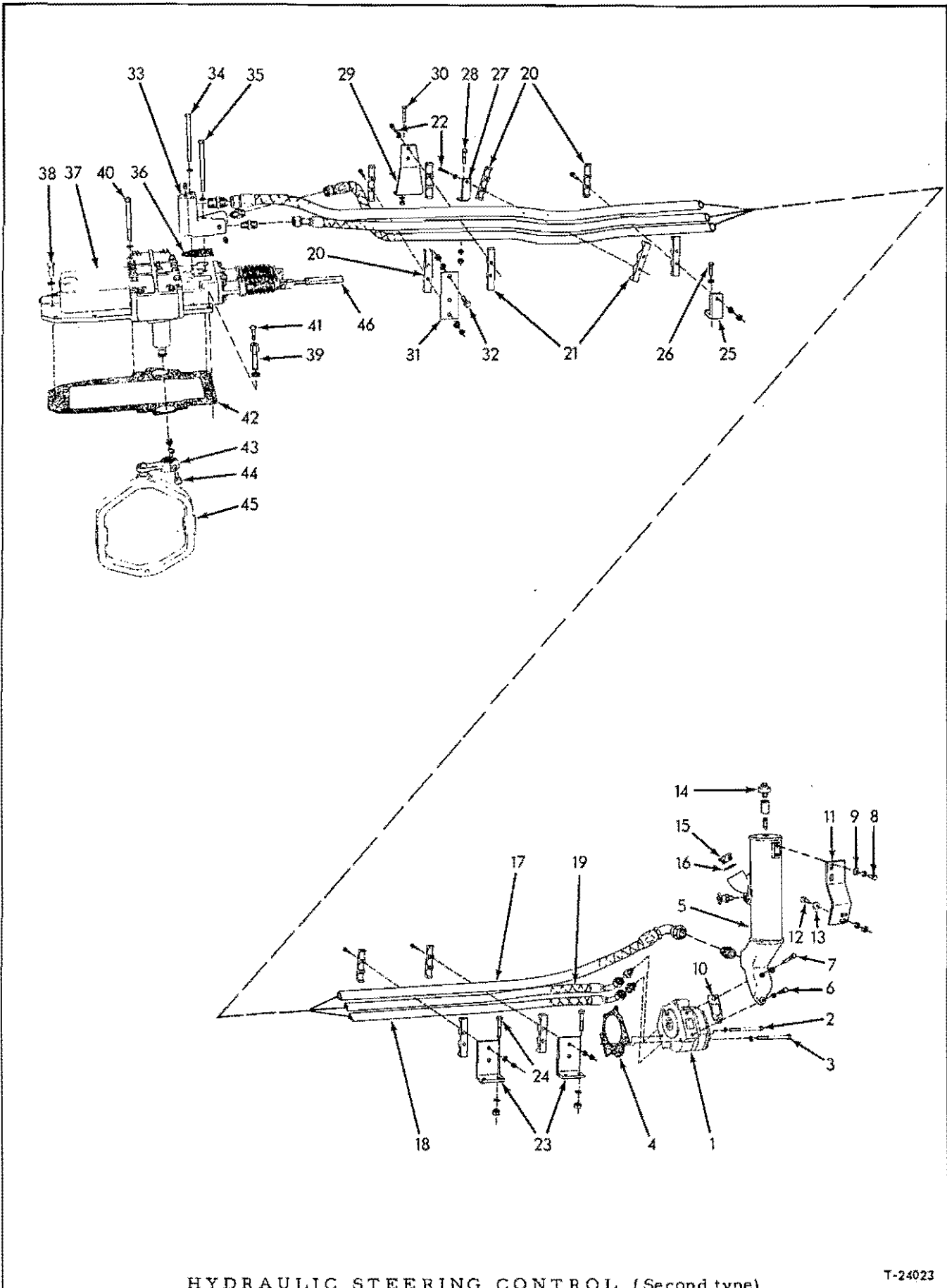
* Models HD16A, AC, D, DC, FC
 ** Model HD16GC

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70083276	1	-	TUBE (Used prior to tractor #1275)
	70918566	2	-	NUT, Sealastic, 1" tube
	70917770	2	-	RING, Sealastic, 1" tube, (Includes ferrule)
1	70089579	1	-	TUBE ASSEMBLY (Includes nuts)(Effective with tractor #1275)
	70911076	1	-	ELBOW, street, 45°, 1"NPT
	70095921	1	-	HOSE ASSEMBLY, (Not original equipment. Service replacement for TUBE ASSEMBLY 70089579. Also order 2 CONNECTORS 70919064) (See HOSE PARTS)
2	70915534	1	-	CONNECTOR, Sealastic, 1" tube, 1"NPT male (Used prior to tractor #1275)
	70051697	1	-	CONNECTOR, oil tube (1"NPT and 1-3/8"EF male ends) (Effective with tractor #1275)
	70919064	1	-	CONNECTOR, flare type, 1" tube, 1"NPT male (Used with HOSE ASSEMBLY 70095921 only)

(Continued)

STEERING CONTROL OIL TANK (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
3	70917884	1 -	ELBOW, Sealastic, 45°, 1" tube, 1"NPT male (Used prior to tractor #1275)
	70051697	1 -	CONNECTOR, oil tube (1"NPT and 1-3/8"EF male ends) (Effective with tractor #1275)
	70919064	1 -	CONNECTOR, flare type, 1" tube, 1"NPT male (Used with HOSE ASSEMBLY 70095921 only)
4	70087100	1 -	TANK, oil
	70912319	1 -	COCK, drain, 1/4"NPT (Effective with tractor #984)
5	70036039	2 -	CAPSCREW, 3/8"NF x 1-3/8"
	70904206	2 -	LOCKWASHER, 3/8"
6	70044973	2 -	WASHER, plain
7	70083804	1 -	PLATE, tank bracing
8	70036034	2 -	CAPSCREW, 3/8"NF x 1"
	70904206	2 -	LOCKWASHER, 3/8"
9	70050748	1 1	BREATHER
	70901765	1 -	COUPLING, pipe, 3/8"NPT
	70901490	1 -	NIPPLE, pipe, 3/8"NPT x 1-1/2" } Effective with tractor #3054
	70904226	- 1	COUPLING, pipe reducing, 3/8"NPT to 1/4"NPT
	70901483	- 1	NIPPLE, pipe, 1/4"NPT x 3-1/2"
	70901722	- 1	ELBOW, street, 90°, 1/4"NPT
	70901826	- 1	BUSHING, pipe reducing, 3/8"NPT to 1/4"NPT
10	70035250	1 1	PLUG, filler
11	70035249	1 1	GASKET, filler plug
12	-----	1 1	TEE (See HYDRAULIC STEERING CONTROL)
13	-----	- 1	PIPE, oil tank (Used prior to tractor #1507. Order 1 HOSE 70087534 and items 2 and 3)
	70087534	- 1	HOSE, oil tank (Effective with tractor #1507)
	70901726	- 1	ELBOW, street, 90°, 1"NPT
14	70921912	- 2	CLAMP, hose, 1-1/16 to 2" diam. (Effective with tractor #1507)
15	70087674	- 2	CONNECTOR, oil tank hose (Effective with tractor #1507)
16	70087702	- 1	TANK, oil
	70912319	- 1	COCK, drain, 1/4"NPT
17	70614478	- 4	CAPSCREW, 1/2"NF x 1-3/8"
	70904208	- 4	LOCKWASHER, 1/2"
	70064531	- 4	WASHER, plain



HYDRAULIC STEERING CONTROL (Second type)

T-24023

HYDRAULIC STEERING CONTROL

USAGE: Tractors serial No. 4001 thru No. 5153, excluding No. 5104

ITEM	PART NO.	QTY.	DESCRIPTION
1	70082781	1	PUMP ASSEMBLY, hydraulic (See page 356 for parts) (Used prior to tractor #4935)(Order 1 PUMP ASSY. 70099915 and 2 CAPSCREWS 70622781)
	70099915	1	PUMP ASSEMBLY, hydraulic (See page 357 for parts) (Effective with tractor #4935)
2	70082937	3	CAPSCREW, 3/8"NC x 4-1/2"
	70904206	3	LOCKWASHER, 3/8"
3	70082936	2	CAPSCREW, 7/16"NC x 4-1/2" (Used prior to tractor #4935)
	70622781	2	CAPSCREW, 7/16"NC x 4-7/8" (Effective with tractor #4935)
	70904207	2	LOCKWASHER, 7/16"
4	70082810	1	GASKET, hydraulic pump
5	70096946	1	TANK, oil
	70912319	1	COCK, drain, 1/4"NPT
6	70041250	1	CAPSCREW, 7/16"NC x 1-1/4"
7	70082905	1	CAPSCREW, 7/16"NC x 3-1/4"
	70904207	2	LOCKWASHER, 7/16"
8	70036034	2	CAPSCREW, 3/8"NF x 1"
	70904206	2	LOCKWASHER, 3/8"
9	70044973	2	WASHER, plain
10	70082811	1	GASKET, oil tank
11	70097334	1	BRACKET, tank bracing (Models other than HD16GC)
	70097483	1	BRACKET, tank bracing (Model HD16GC only)
12	70036039	2	CAPSCREW, 3/8"NF x 1-3/8"
13	70044973	2	WASHER, plain
	70904206	2	LOCKWASHER, 3/8"
	70911041	2	NUT, 3/8"NF
14	70050748	1	BREATHER, oil tank
	70901765	1	COUPLING, pipe, 3/8"NPT
	70901490	1	NIPPLE, pipe, 3/8"NPT x 1-1/2"
15	70035250	1	PLUG, oil tank
16	70035249	1	GASKET, oil tank plug
17	70097339	1	HOSE ASSEMBLY, oil return (See HOSE PARTS)
	70919064	2	CONNECTOR, flare type, 1" tube, 1"NPT
18	70089716	1	HOSE ASSEMBLY, oil supply, left clutch control (See HOSE PARTS)
	70919615	2	CONNECTOR, flare type, 3/4" tube, 1/2"NPT
19	70084032	1	HOSE ASSEMBLY, oil supply, right clutch control (See HOSE PARTS)
	70919615	2	CONNECTOR, flare type, 3/4" tube, 1/2"NPT

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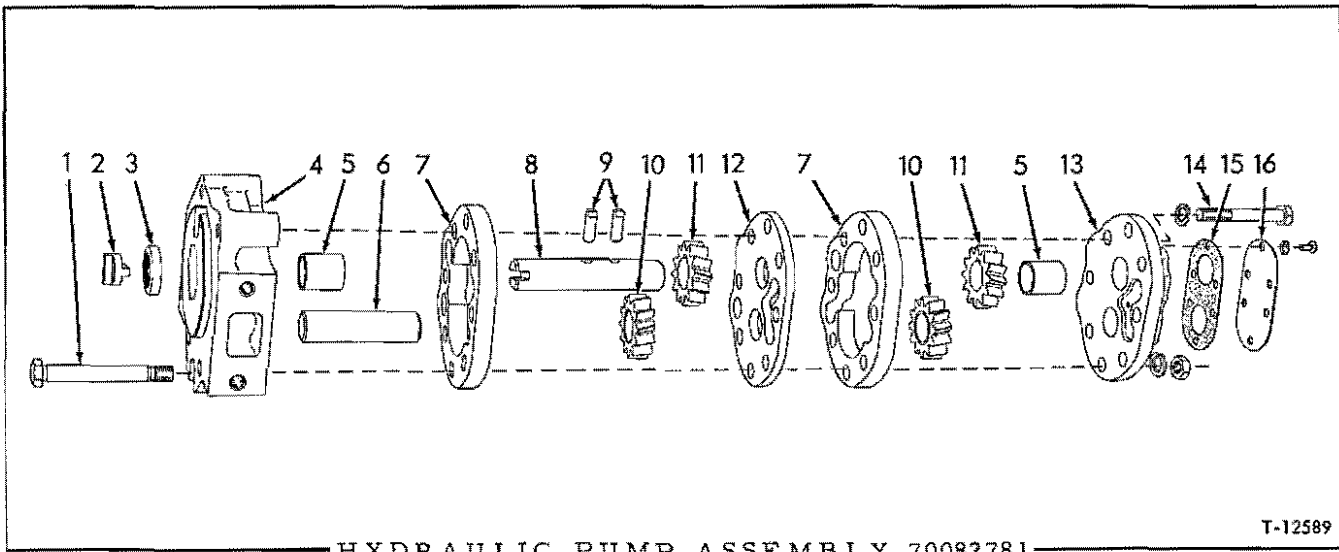
HYDRAULIC STEERING CONTROL (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
20	70089583	9	CLAMP, hose supporting (Half only. Plain holes)
	70913611	6	CAPSCREW, 3/8"NF x 3-1/2"
	70904206	6	LOCKWASHER, 3/8"
	70911041	6	NUT, 3/8"NF
21	70089729	3	CLAMP, hose supporting (Half only. Threaded holes)
22	70035336	6	CAPSCREW, 3/8"NF x 1-3/4" (1 less used on HD16FC, GC)
	70914339	1	CAPSCREW, 3/8"NF x 2-3/4" (Model HD16FC, GC only)
	70904206	6	LOCKWASHER, 3/8"
23	70089612	2	ANGLE, hose supporting clamps
24	70035712	4	CAPSCREW, 1/2"NC x 2-1/4"
	70904208	4	LOCKWASHER, 1/2"
	70911028	4	NUT, 1/2"NC
25	70097055	1	ANGLE, hose supporting clamp (Model HD16GC only)
26	70035014	1	CAPSCREW, 5/8"NF x 1-1/2"
	70904209	1	LOCKWASHER, 5/8"
27	70089611	1	ANGLE, hose supporting clamp
28	70065588	1	CAPSCREW, 1/2"NF x 3-1/2" (Models HD16A, AC, D, DC)(Also attaches left rear fender)
	70042430	1	CAPSCREW, 1/2"NF x 3-1/4" (Models HD16FC, GC)
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
29	70089735	1	BRACKET, hose supporting clamps
30	70035067	2	CAPSCREW, 1/2"NF x 2"
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
31	70089616	1	PLATE, hose supporting clamps
32	70070469	1	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
33	70069518	1	MANIFOLD, hose connection
	70901651	2	PLUG, pipe, 1/8"NPT
	70901652	1	PLUG, pipe, 1/4"NPT
34	70046590	2	CAPSCREW, 1/2"NC x 5-1/4 "
35	70057984	1	CAPSCREW, 1/2"NF x 5-3/4"
	70904208	3	LOCKWASHER, 1/2"
36	70057841	1	GASKET, manifold
37	70057851	1	VALVE ASSEMBLY, steering clutch throwout (See page 359 for parts)(Used prior to Dec. 1959)(Order VALVE ASSEMBLY 70099865)
	70099865	1	VALVE ASSEMBLY, steering clutch throwout (See page 359 for parts)(Effective Dec. 1959)
38	70070469	6	CAPSCREW, 1/2"NF x 1-1/4"
39	70094543	1	CAPSCREW (drilled for breather)
40	70037461	4	CAPSCREW, 1/2"NF x 4-3/4"
	70904208	11	LOCKWASHER, 1/2"

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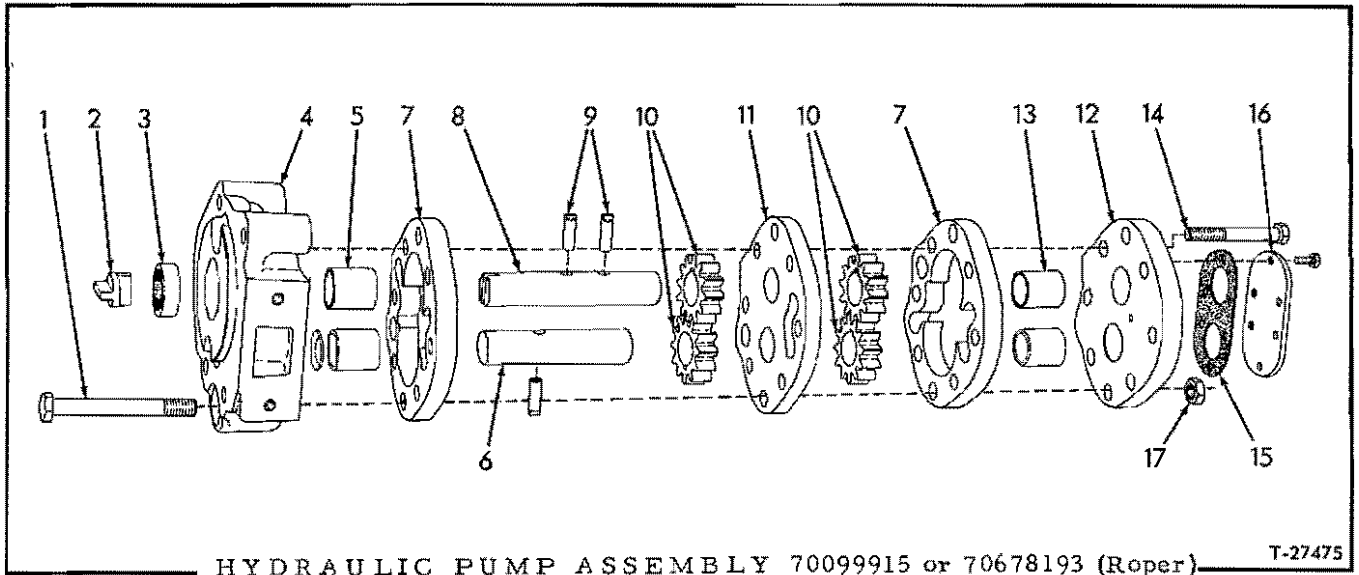
HYDRAULIC STEERING CONTROL (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
41	70051447	1	BREATHER
42	70057836	1	GASKET, steering clutch throwout valve
43	70059028	2	LEVER, actuating, lower
44	70035068	2	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
45	-----	-	YOKE (See STEERING CLUTCHES)
46	-----	-	ROD (See STEERING LEVERS AND LINKAGE)



USAGE: See pages 347 and 353

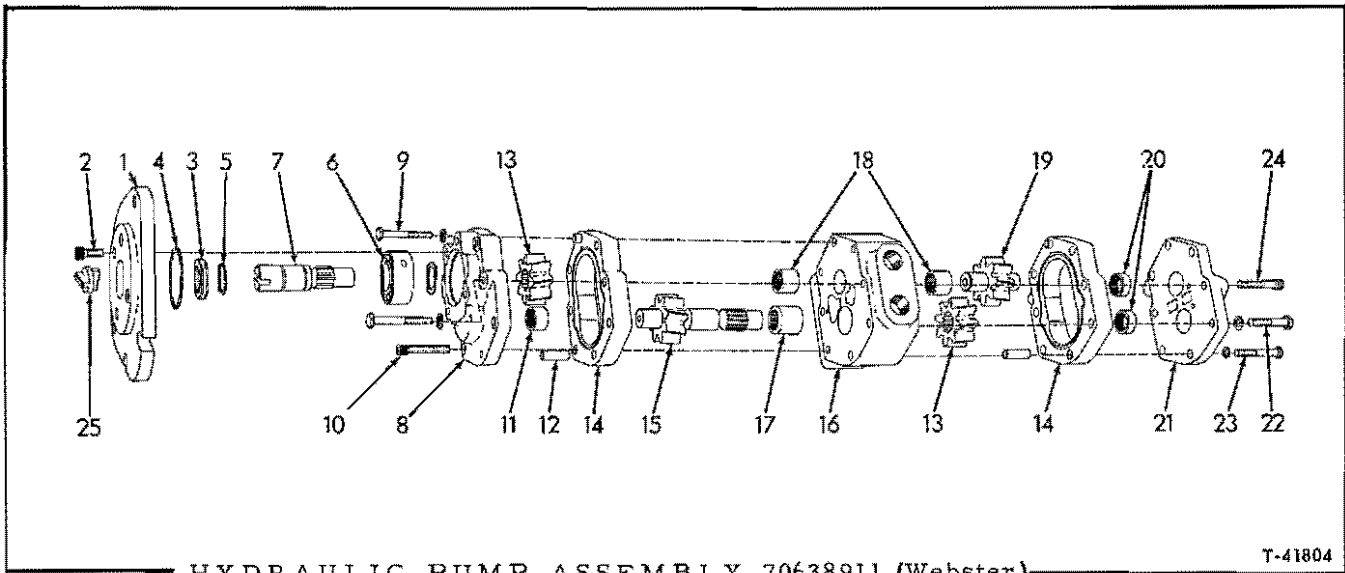
ITEM	PART NO.	QTY.	DESCRIPTION
1	70083981	2	BOLT, dowel
	70904208	2	LOCKWASHER, 1/2"
	70911035	2	NUT, jam, 1/2"NC
2	70645109	1	COUPLING, driving shaft
3	70090655	1	SEAL, oil, driving shaft
4	70083983	1	PLATE ASSEMBLY, back (Includes items 5 and 6)
5	70059776	2	BEARING, driving gear shaft
6	70059773	1	SHAFT, idling gears
7	70059772	2	CASE
8	70083979	1	SHAFT, driving
9	70059782	2	PIN, driving gear
10	70059775	2	GEAR ASSEMBLY, idling (Includes bushing which is not serviced separately)
11	70059779	2	GEAR, driving
12	70059771	1	PLATE, spacing
13	70083982	1	PLATE ASSEMBLY, front (Includes item 5)
14	70088736	4	CAPSCREW (7/16"NC x 3")
	70904207	4	LOCKWASHER, 7/16"
15	70059778	1	GASKET, cover plate
16	70059777	1	PLATE, cover
	70900575	6	SCREW, machine, 1/4"NC x 5/8"
	70904204	6	LOCKWASHER, 1/4"



USAGE: See pages 347, 353, 366 and 370

ITEM PART NO. QTY. DESCRIPTION

1	70622789	2	CAPSCREW, 1/2"NC x 4-1/2"
2	70645109	1	COUPLING, driving shaft
3	70090655	1	SEAL, oil, driving shaft
4	70099914 70910005	1 1	PLATE ASSEMBLY, back (Includes item 5 and PLUG indented below) PLUG, expansion, 1-1/8" diam.
5	70059776	2	BEARING, back plate
6	70099912	1	SHAFT, idling gears
7	70099910	2	CASE
8	70099913	1	SHAFT, driving
9	70059782	3	PIN, gear driving
10	70099916	4	GEAR
11	70099911	1	SPACER
12	70099917	1	PLATE ASSEMBLY, front (Includes item 13)
13	70059776	2	BEARING, front plate
14	70088736	4	CAPSCREW (7/16"NC x 3")
15	70059778	1	GASKET, cover plate
16	70632112 70903625	1 6	PLATE, cover CAPSCREW, 1/4"NC x 3/4"
17	70622790	2	NUT, dowling capscrow (1/2"NC)



HYDRAULIC PUMP ASSEMBLY 70638911 (Webster)

T-41804

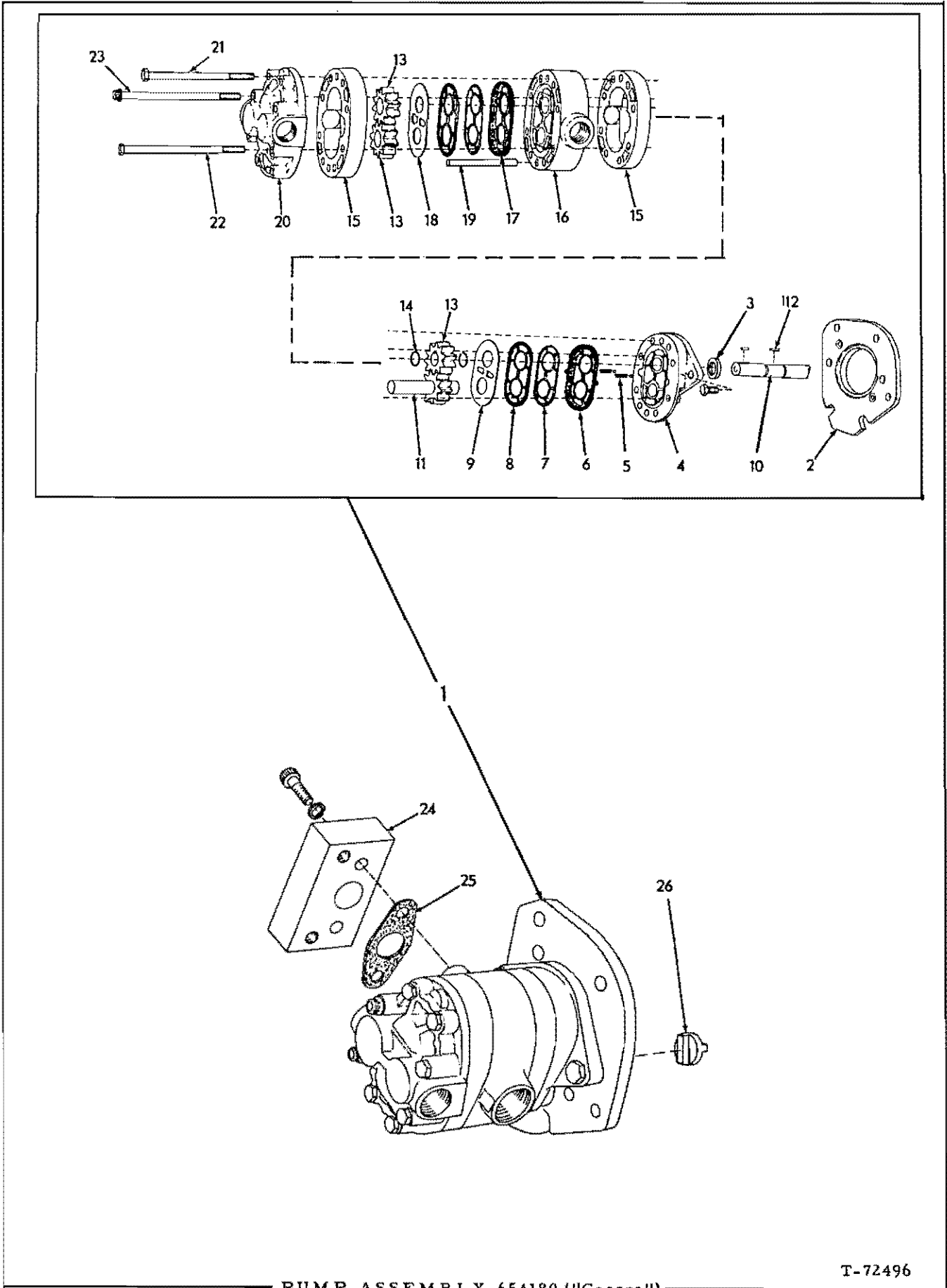
USAGE: See pages 366 and 370

ITEM	PART NO.	QTY.	DESCRIPTION
1	70643449	1	PLATE ASSEMBLY, adapting (Includes item 3)
2	70643551	4	CAPSCREW, socket-hd., 5/16"NC x 3/4"
3	70643438	1	SEAL, oil
4	73039053	1	O-RING, adapting plate
5	70628161	2	RING, snap, drive shaft
6	74255031	1	BEARING, ball
7	70644354	1	SHAFT, drive
8	70643496	1	BODY ASSEMBLY (Includes item 11)
	70921160	4	CAPSCREW, 5/16"NC x 2-1/4"
	70904205	4	LOCKWASHER, 5/16"
9	70054305	2	CAPSCREW, 1/4"NC x 2"
	70904204	2	LOCKWASHER, 1/4"
10	70643553	2	CAPSCREW, socket-hd., 5/16"NC x 1-1/2"
11	70208253	1	BEARING, needle, driven shaft (short)
12	70643544	4	PIN, dowel (hollow)
13	70643545	2	GEAR (splined)
14	70643534	2	PLATE, gear housing
15	70644898	1	SHAFT ASSEMBLY, driven (Includes gear. Serviced only as a unit)
16	70643492	1	PLATE ASSEMBLY, center (Includes items 17 and 18)
17	70234692	1	BEARING, needle, driven shaft (long)
18	70208253	2	BEARING, needle
19	70644897	1	SHAFT ASSEMBLY, idler (Includes gear. Serviced only as a unit)

(Continued)

HYDRAULIC PUMP ASSEMBLY 70638911 (Webster)(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
20	74254654	2	BEARING, needle, pump cover
21	70643491	1	COVER ASSEMBLY (Includes item 20)
22	70051473	4	CAPSCREW, 5/16"NC x 1-3/4"
	70904205	4	LOCKWASHER, 5/16"
23	70054305	2	CAPSCREW, 1/4"NC x 2"
	70904204	2	LOCKWASHER, 1/4"
24	70643552	2	CAPSCREW, socket-hd., 5/16"NC x 1-3/4"
25	70645109	1	COUPLING, drive shaft



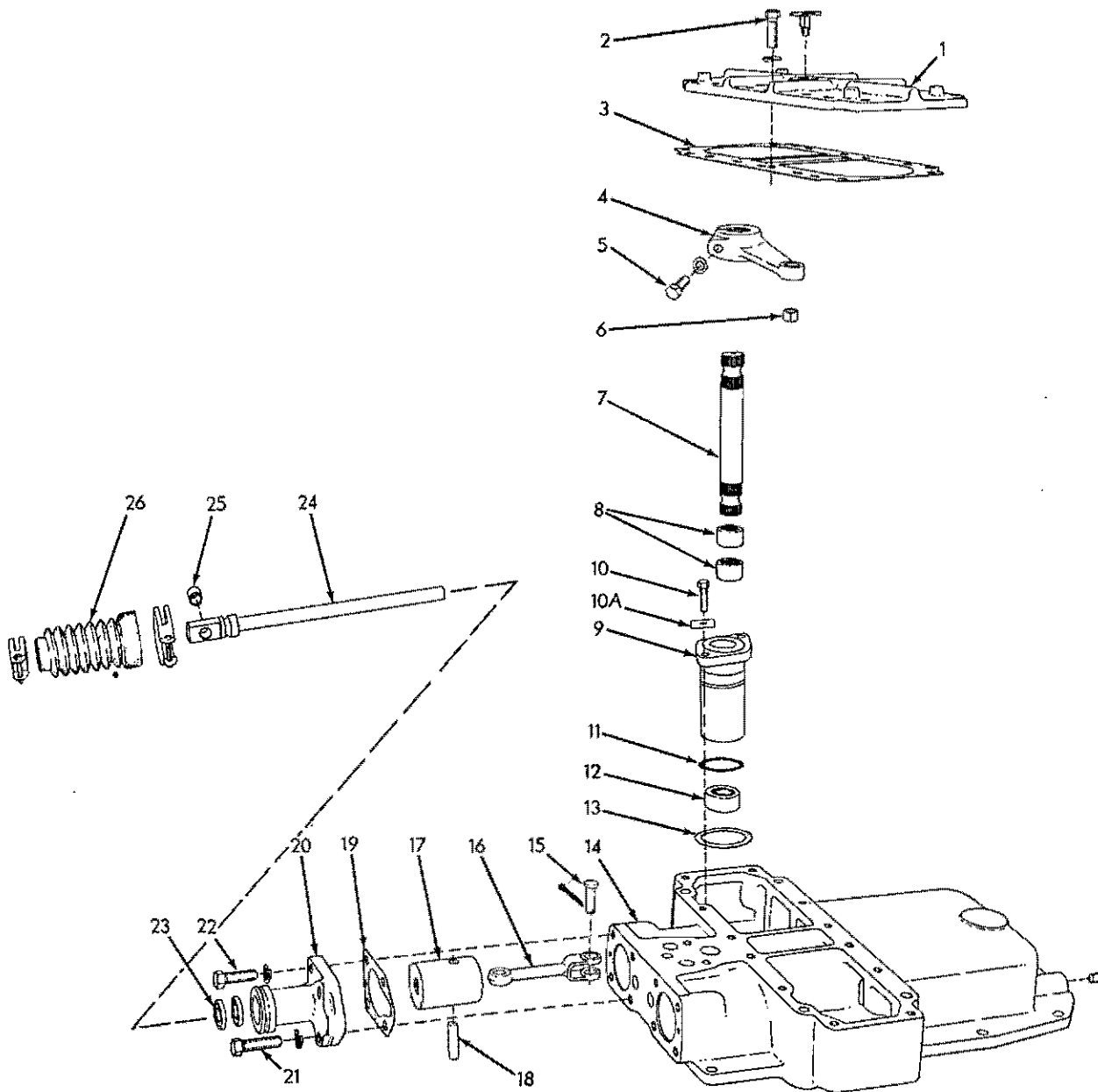
PUMP ASSEMBLY 654180 ("Cessna")

T-72496

PUMP ASSEMBLY 70654180 ("Cessna)

USAGE: Replacement for service PUMP ASSY., 70638911 ("Webster") and is completely interchangeable.

ITEM	PART NO.	QTY.	DESCRIPTION
-	70654180	1	PUMP ASSY. (Items 1 thru 26)
1	70654074	1	PUMP ASSY. (Items 2 thru 23)
2	70653932	1	PLATE, adapting
	70916222	2	CAPSCREW, 7/16"NC x 7/8"
3	70650677	1	SEAL, oil
4	70653929	1	PLATE ASSY., front (Includes bushings)
5	70650679	2	SPRING, check valve
	70915903	2	BALL, steel, 7/32" diam.
6	70650673	1	SEAL, front diaphragm
7	70650676	2	GASKET, diaphragm (thin)
8	70650675	2	GASKET, diaphragm (thick)
9	70650674	1	DIAPHRAGM, sealing, front
10	70654075	1	SHAFT, drive
11	70653931	1	GEAR ASSY., idler (Includes shaft)
12	70650672	2	KEY, pump gear
13	70650189	3	GEAR, pump
14	70653936	2	RING, snap, pump gear
15	70650193	2	BODY, outer
16	70653934	1	BODY, center (Includes bushings)
17	70650678	1	SEAL, rear diaphragm
18	70827650	1	DIAPHRAGM, sealing, rear
19	70653937	2	PIN, dowel
20	70653930	1	PLATE, rear
21	70919223	4	CAPSCREW, 5/16"NC x 4-1/2"
22	70924226	2	CAPSCREW, 5/16"NC x 5"
23	70924227	2	SCREW, 12 pt-hd., 5/16"NC x 5"
24	70654089	1	ADAPTER, inlet
	70912267	2	CAPSCREW, hex-socket-hd., 3/8"NC x 1"
	70904206	2	LOCKWASHER, 3/8"
25	70655999	1	GASKET, inlet adapter
26	70645109	1	COUPLING



CONTROL VALVE PARTS

T-13126

CONTROL VALVE PARTS

USAGE: See pages 347 and 353

* VALVE ASSEMBLY 057851 (Early units)
 ** VALVE ASSEMBLY 099865 (Late units)

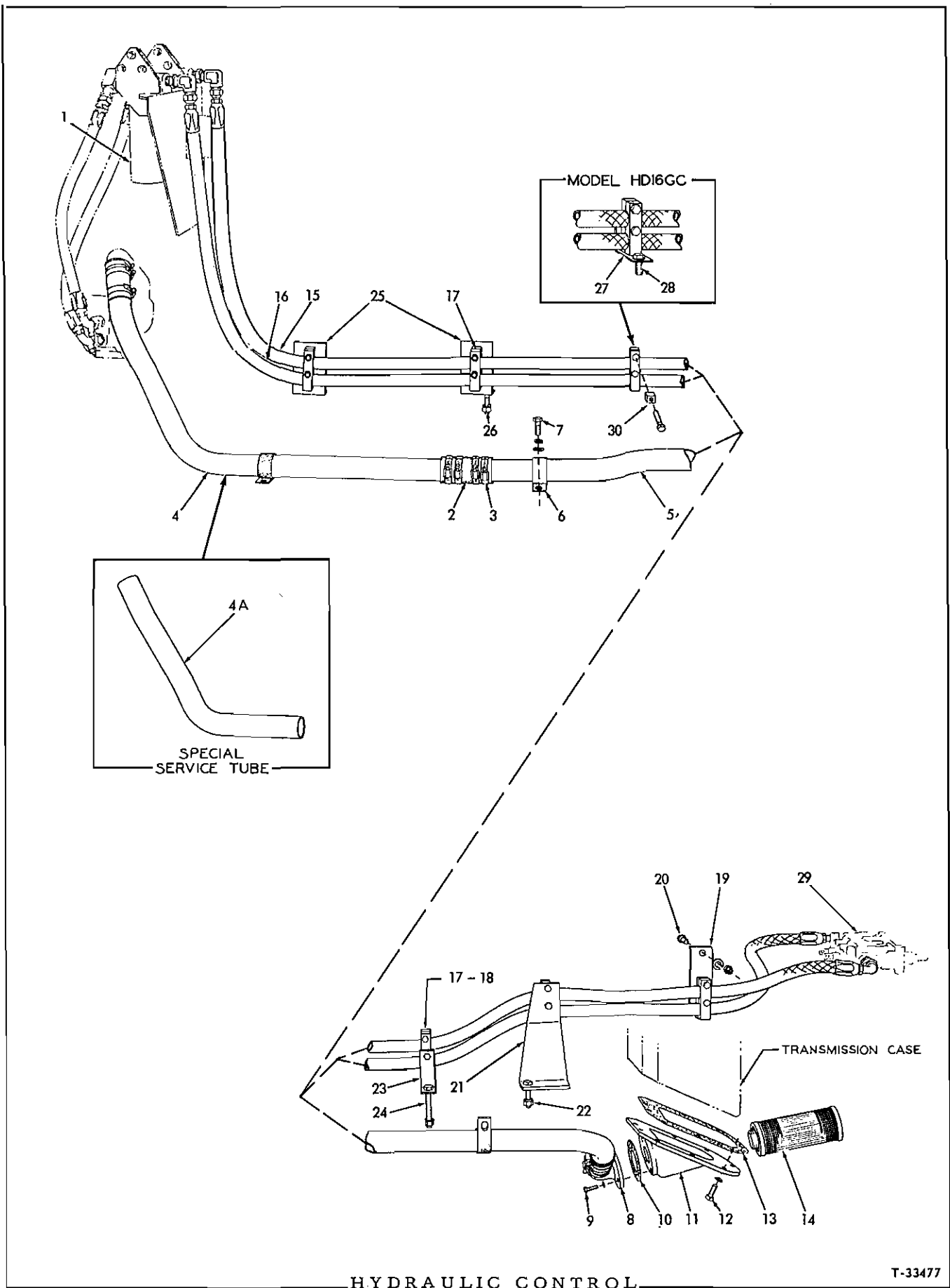
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70057838	1	1	COVER, housing
	70914453	1	1	COCK, drain, T-handle, 1/8"NPT (For bleeding system)
2	70035061	12	12	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	12	12	LOCKWASHER, 1/2"
3	70057839	1	1	GASKET, housing cover
4	70080514	2	2	LEVER ASSEMBLY, actuating (Includes item 6)
5	70035236	2	2	CAPSCREW, 1/2"NC x 1-3/4"
	70906961	2	2	LOCKWASHER, internal teeth, 1/2"
6	70049988	2	2	BUSHING, actuating lever
7	70057843	2	2	SHAFT, actuating lever
8	70051513	4	4	BEARING, needle, actuating lever shaft
9	70075955	2	2	RETAINER, actuating lever shaft bearing
10	70035439	4	4	CAPSCREW, 3/8"NC x 1"
10A	70621453	4	4	LOCK, capscREW
11	70923577	2	2	O-RING, bearing retainer
12	70057848	2	2	SEAL, oil, actuating lever shaft
13	70057846	2	2	GASKET, lever shaft bearing retainer
14	70057852	1	1	HOUSING, control mechanism
	70907859	1	1	PLUG, pipe, hex-socket, 1/4"NPT
15	70049993	2	2	PIN, connecting rod
	70910967	2	2	PIN, cotter, 1/8" x 7/8"
16	70080513	2	2	ROD, connecting
17	70065112	2	-	PISTON, control
	70099863	-	2	PISTON, control
18	70052459	2	2	PIN, piston
19	70059883	2	2	GASKET, valve spool bracket
20	70079372	2	-	BRACKET, valve spool
	70099862	-	2	BRACKET, valve spool
21	70036203	4	4	CAPSCREW, 1/2"NC x 1-3/4"
22	70035190	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	8	8	LOCKWASHER, 1/2"

(Continued)

CONTROL VALVE PARTS (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
23	70052641	4	-	SEAL, oil, valve spool
	70099856	-	4	SEAL, oil, valve spool
24	70052616	2	-	SPOOL ASSEMBLY, valve (7/8" diam. Includes item 25)
	70099864	-	2	SPOOL ASSEMBLY, valve (5/8" diam. Includes item 25)
25	70049988	2	2	BUSHING, valve spool (steel)
26	70079421	2	2	BOOT, valve spool
	70913232	2	2	CLAMP, hose, 1-3/8" diam. (front)
	70914503	2	2	CLAMP, hose, 2-3/16" diam. (rear)

MEMO



HYDRAULIC CONTROL

T-33477

HYDRAULIC CONTROL

USAGE: Tractors serial No. 5154 and up, including No. 5104

* Models HD16A, D
 ** Models HD16AC, DC, FC
 *** Model HD16GC

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	-----	-	-	-	HYDRAULIC OIL PUMP AND FILTERS (See pages 366 and 370 for details)
2	70623234	3	3	3	HOSE, suction line } 1 additional hose and 4 clamps used CLAMP, hose } on tractors prior to #5315 including EXCEPTIONS listed below but not on units equipped with diverter valve
3	70921913	12	12	12	
4	-----	1	1	1	TUBE, suction line, front section (2 pieces) (Used prior to tractor #5315 including EXCEPTIONS listed below. Not used on units equipped with diverter valve. Order TUBE 70629464 and either TUBE 70629479 or TUBE 70629485)
	70629464	1	1	1	TUBE, suction line, front section (Effective with tractor #5315 excluding EXCEPTIONS listed below. Also used on all prior units equipped with diverter valve)
	70640631	1	1	1	TUBE, suction line, front section (Used only with Webster service replacement PUMP ASSY. 70638911, replacing TUBE 70629464. Also see item 4A)
4A	70645500	1	1	1	TUBE, suction line, front section (Used only with Webster service replacement PUMP ASSY. 70638911 on tractors prior to #5315 equipped with original 2-piece front suction line. See item 4)
5	-----	1	-	-	TUBE, suction line, rear section (Used prior to tractor #5325. Not used on units equipped with diverter valve. Order TUBE 70629464 and TUBE 70629479)
	70629479	1	-	-	TUBE, suction line, rear section (Effective with tractor #5325. Also used on all prior units equipped with diverter valve)
	-----	-	1	1	TUBE, suction line, rear section (Used prior to tractor #5315 including EXCEPTIONS listed below. Not used on units equipped with diverter valve. Order TUBE 70629464 and TUBE 70629485)
	70629485	-	1	1	TUBE, suction line, rear section (Effective with tractor #5315, excluding EXCEPTIONS listed below. Also used on all prior units equipped with diverter valve)
6	70623235	3	3	3	CLIP, suction tube supporting
7	70070467	3	3	3	CAPSCREW, 1/2"NF x 1"
	70904208	3	3	3	LOCKWASHER, 1/2"
	70910244	3	3	3	WASHER, plain, SAE std., 1/2"
		3	3	3	
8	70623612	1	1	1	ELBOW, suction tube
9	70092013	3	3	3	CAPSCREW, 3/8"NC x 1-1/8", Nylok
	70904206	3	3	3	LOCKWASHER, 3/8"
10	70623616	1	1	1	GASKET, suction tube elbow
11	70623611	1	1	1	COVER, oil filter compartment
12	70035061	9	9	9	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	9	9	9	LOCKWASHER, 1/2"
13	70623617	1	1	1	GASKET, filter compartment cover

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HYDRAULIC CONTROL (Continued)

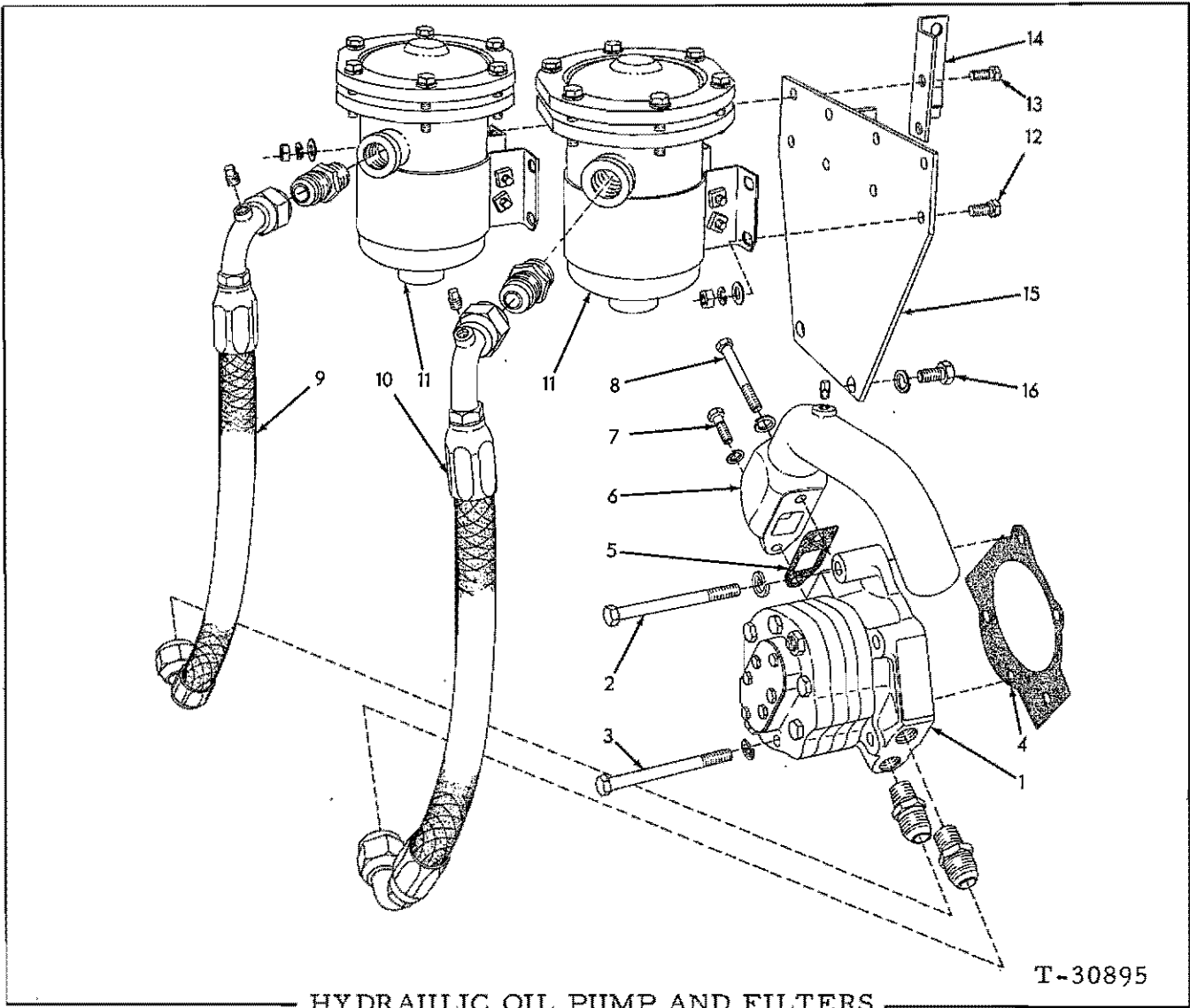
ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
14	70623268	1	1	1	SCREEN, oil
15	70624183	1	1	1	HOSE ASSEMBLY, filter to valve, left (See HOSE PARTS) (Used prior to tractor #5550)
	70919342	1	1	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
	70919615	1	1	1	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male
	70631579	1	1	1	HOSE ASSEMBLY, filter to valve, left (See HOSE PARTS) (Effective with tractor #5550)
	70921840	1	1	1	ELBOW, flare type, swivel nut, 3/4" tube, 3/4"NPT male
	70919615	1	1	1	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male
16	70624186	1	1	1	HOSE ASSEMBLY, filter to valve, right (See HOSE PARTS) (Used prior to tractor #5550)
	70919342	1	1	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
	70919615	1	1	1	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male
	70631578	1	1	1	HOSE ASSEMBLY, filter to valve, right (See HOSE PARTS) (Effective with tractor #5550)
	70921840	1	1	1	ELBOW, flare type, swivel nut, 3/4" tube, 3/4"NPT male
	70919615	1	1	1	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male
17	70623281	9	9	10	CLAMP, hose supporting (Half only. Plain holes)
	70914339	-	-	1	CAPSCREW, 3/8"NF x 2-3/4"
	70045174	6	6	8	CAPSCREW, 3/8"NF x 2-1/2"
	70046419	6	6	-	CAPSCREW, 3/8"NF x 2" (5 used on Model HD16FC)
	70917038	-	1	-	CAPSCREW, 3/8"NF x 3" (Model HD16FC only)
	70035336	-	-	3	CAPSCREW, 3/8"NF x 1-3/4"
	70904206	12	12	12	LOCKWASHER, 3/8"
	70911041	6	6	8	NUT, 3/8"NF
18	70623304	3	3	2	CLAMP, hose supporting (Half only. Threaded holes)
19	70089616	1	1	1	PLATE, hose supporting, rear
20	70070469	1	1	1	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	1	1	1	LOCKWASHER, 1/2"
	70911043	1	1	1	NUT, 1/2"NF
21	70628526	1	1	1	BRACKET, hose supporting, intermediate
22	70035067	2	2	2	CAPSCREW, 1/2"NF x 2"
	70904208	2	2	2	LOCKWASHER, 1/2"
	70911043	2	2	2	NUT, 1/2"NF
23	70089611	1	1	1	ANGLE, hose supporting, intermediate
24	70065588	1	1	-	CAPSCREW, 1/2"NF x 3-1/2"
	70042430	-	-	1	CAPSCREW, 1/2"NF x 3-1/4"
	70904208	1	1	1	LOCKWASHER, 1/2"
	70911043	1	1	1	NUT, 1/2"NF
25	70089612	2	2	2	ANGLE, hose supporting, front (Not used w/Hyd. Tilt)
26	70035712	4	4	4	CAPSCREW, 1/2"NC x 2-1/4"
	70904208	4	4	4	LOCKWASHER, 1/2"
	70911028	4	4	4	NUT, 1/2"NC

(Continued)

HYDRAULIC CONTROL (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
27	70097055	-	-	1	ANGLE, hose supporting, intermediate
28	70035014	-	-	1	CAPSCREW, 5/8"NF x 1-1/2"
	70904209	-	-	1	LOCKWASHER, 5/8"
29	-----	-	-	-	VALVE, control (See CONTROL VALVE AND LINES)
30	70068157	1	1	-	BLOCK, clamp spacing (Used only with Hydraulic Tilt)
	70045174	1	1	-	CAPSCREW, 3/8"NF x 2-1/2" (Replaces CAPSCREW 046419)

EXCEPTIONS: Tractors serial No. 5316, 5317, 5320, 5321,
5322, 5326 and 5327



HYDRAULIC OIL PUMP AND FILTERS

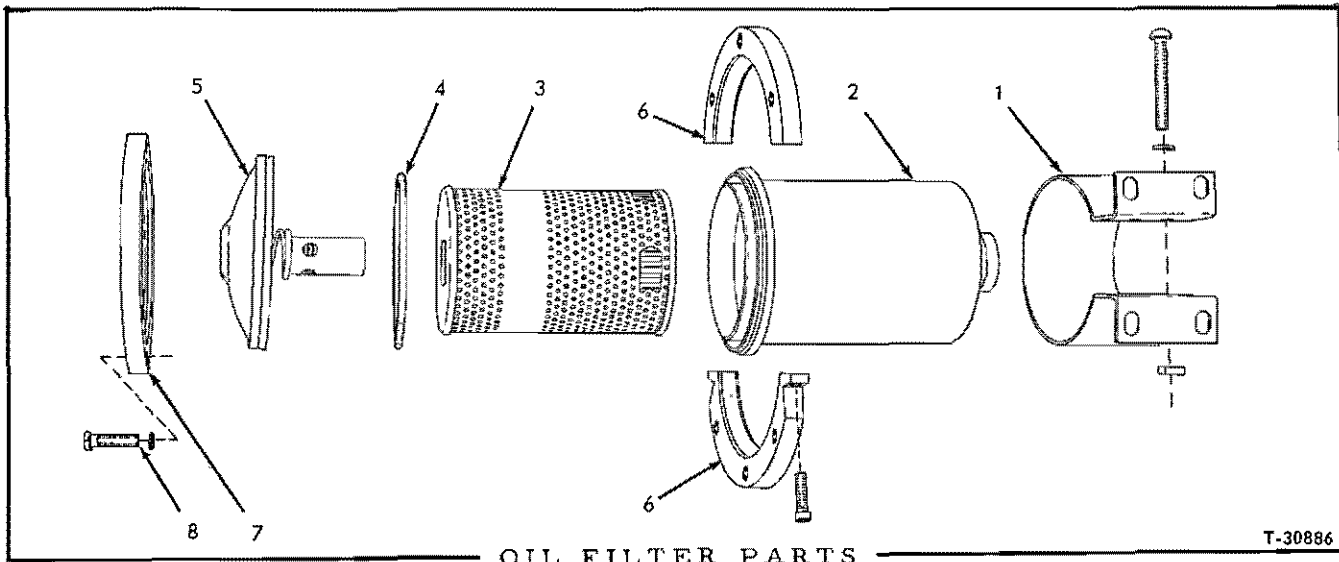
USAGE: Tractors No. 5154 thru No. 5549; including No. 5104.

ITEM	PART NO.	QTY.	DESCRIPTION
1	70099915	1	PUMP ASSY. (Roper. See page 357 for parts) (Original equipment. Can be replaced by PUMP ASSY., 70638911, 3 CAPSCREWS 70082013, 2 CAPSCREWS 70041250. If for tractors prior to #5315 also order TUBE 70645500. If for tractors #5315 and up also order TUBE 70640631)
	70638911	1	PUMP ASSY. (Webster. See page 357A for parts) (Used as service replacement for Pump Assy., 70099915. Provides 75% capacity increase)

(Continued)

HYDRAULIC OIL PUMP AND FILTERS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
1 (Cont.)	70654180	1	PUMP ASSY. ("Cessna") (See page 357C for parts) (Used as service replacement for Pump Assy., 70099915)
2	70082937	3	CAPSCREW, 3/8"NC x 4-1/2"
	70082013	3	CAPSCREW, 3/8"NC x 3-1/4" (For Pump 70638911 only)
	70904206	3	LOCKWASHER, 3/8"
3	70622781	2	CAPSCREW, 7/16"NC x 4-7/8"
	70041250	2	CAPSCREW, 7/16"NC x 1-1/4" (For Pump 70638911 only)
	70904207	2	LOCKWASHER, 7/16"
4	70082810	1	GASKET, hydraulic pump
5	70082811	1	GASKET, inlet elbow
6	70623171	1	ELBOW, pump inlet
	70901651	1	PLUG, pipe, 1/8"NPT
7	70041250	1	CAPSCREW, 7/16"NC x 1-1/4"
8	70082905	1	CAPSCREW, 7/16"NC x 3-1/4"
	70904207	2	LOCKWASHER, 7/16"
9	70623280	1	HOSE ASSY., pump to right filter (See page 6 for parts)
	70901651	1	PLUG, pipe, 1/8"NPT
	70919615	1	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male
	70919342	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
10	70623278	1	HOSE ASSY., pump to left filter (See page 6 for parts)
	70901651	1	PLUG, pipe, 1/8"NPT
	70919615	1	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male
	70919342	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
11	70629164	2	FILTER ASSY. (See page 368 for parts)(Used on tractors #5154 thru #5177, including #5104)(Order Filter Assy., 70629707)
	70629829	2	FILTER ASSY. (See page 368 for parts)(Used on tractors #5178 thru #5231)(Order Filter Assy., 70629707)
	70629707	2	FILTER ASSY. (See page 369 for parts)(Effective with tractor #5232)
12	70035167	6	CAPSCREW, 3/8"NF x 7/8"
13	70036034	2	CAPSCREW, 3/8"NF x 1"
	70911115	8	WASHER, plain, SAE std., 3/8"
	70904206	8	LOCKWASHER, 3/8"
	70911041	8	NUT, 3/8"NF
14	70623279	1	BRACKET, supporting
15	70623288	1	BRACKET, filter mounting
16	70035220	2	CAPSCREW, 1/2"NC x 1-1/8"
	70904208	2	LOCKWASHER, 1/2"



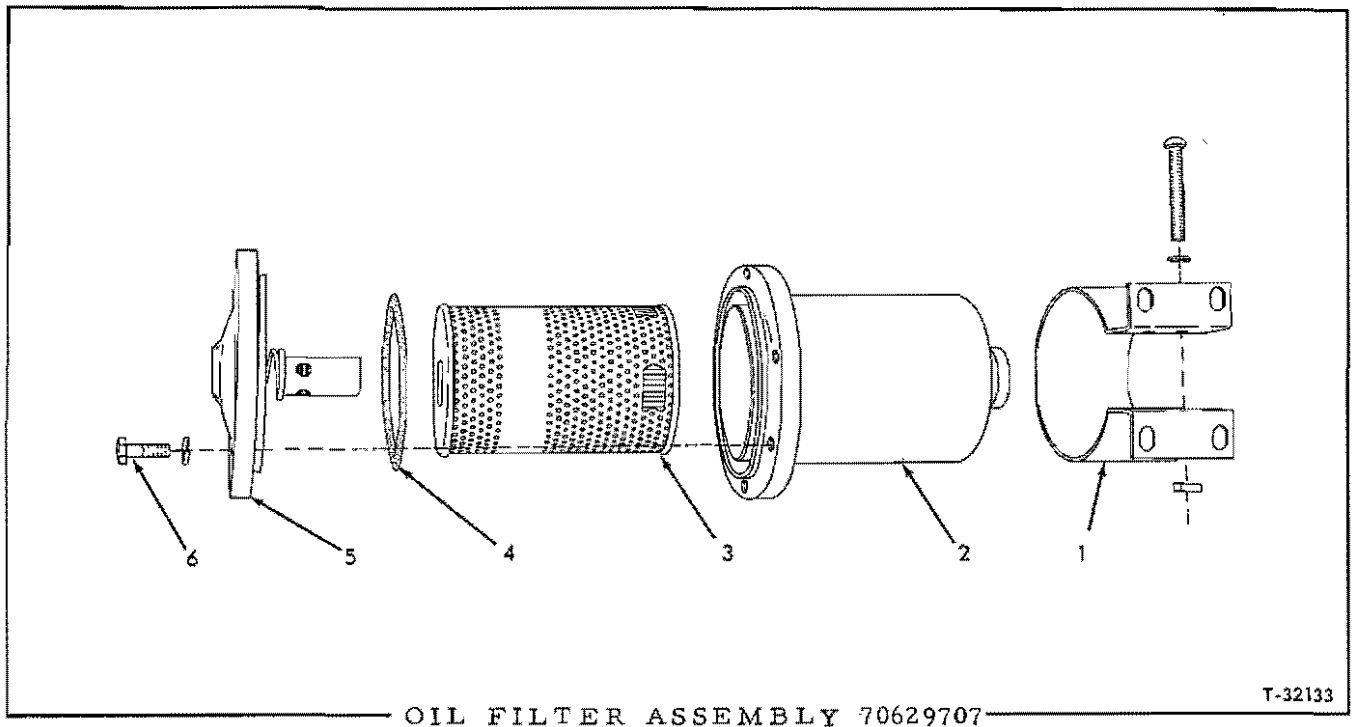
OIL FILTER PARTS

T-30886

*70629164 FILTER ASSEMBLY (See page 366)
 ** 70629829 FILTER ASSEMBLY (See page 366)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
<u>NOTE:</u> Quantities indicated are for one (1) filter assembly only				
1	70623045	1	1	BRACKET ASSEMBLY, mounting (Includes hardware indented below)
	70903765	2	2	SCREW, machine, 5/16"NC x 2-1/2"
	70904205	2	2	LOCKWASHER, 5/16"
	70901151	2	2	NUT, square, 5/16"NC
2	70623048	1	1	CASE
3	70623049	1	1	ELEMENT PACKAGE (Includes item 4)
4	-----	1	-	GASKET, case cover (Not serviced. Order O-RING 70607393)
	70607393	-	1	O-RING, case cover
5	70623046	1	1	COVER ASSEMBLY (Includes relief valve)
6	-----	1	-	RING ASSEMBLY, lower (Includes CAPSCREW indented below)(Order CASE 70629643
	-----	-	1	RING ASSEMBLY, lower (Includes CAPSCREW indented below)(Order CASE 70629643)
	70912262	2	2	CAPSCREW, hex-socket-hd., 1/4"NC x 1"
7	-----	1	1	RING, upper (Order COVER ASSEMBLY 70629642)
8	70070960	6	-	CAPSCREW, 3/8"NC x 1-1/2"
	70013059	-	6	CAPSCREW, 3/8"NC x 2"
	70904206	6	6	LOCKWASHER, 3/8"

See FILTER ASSEMBLY 70629707

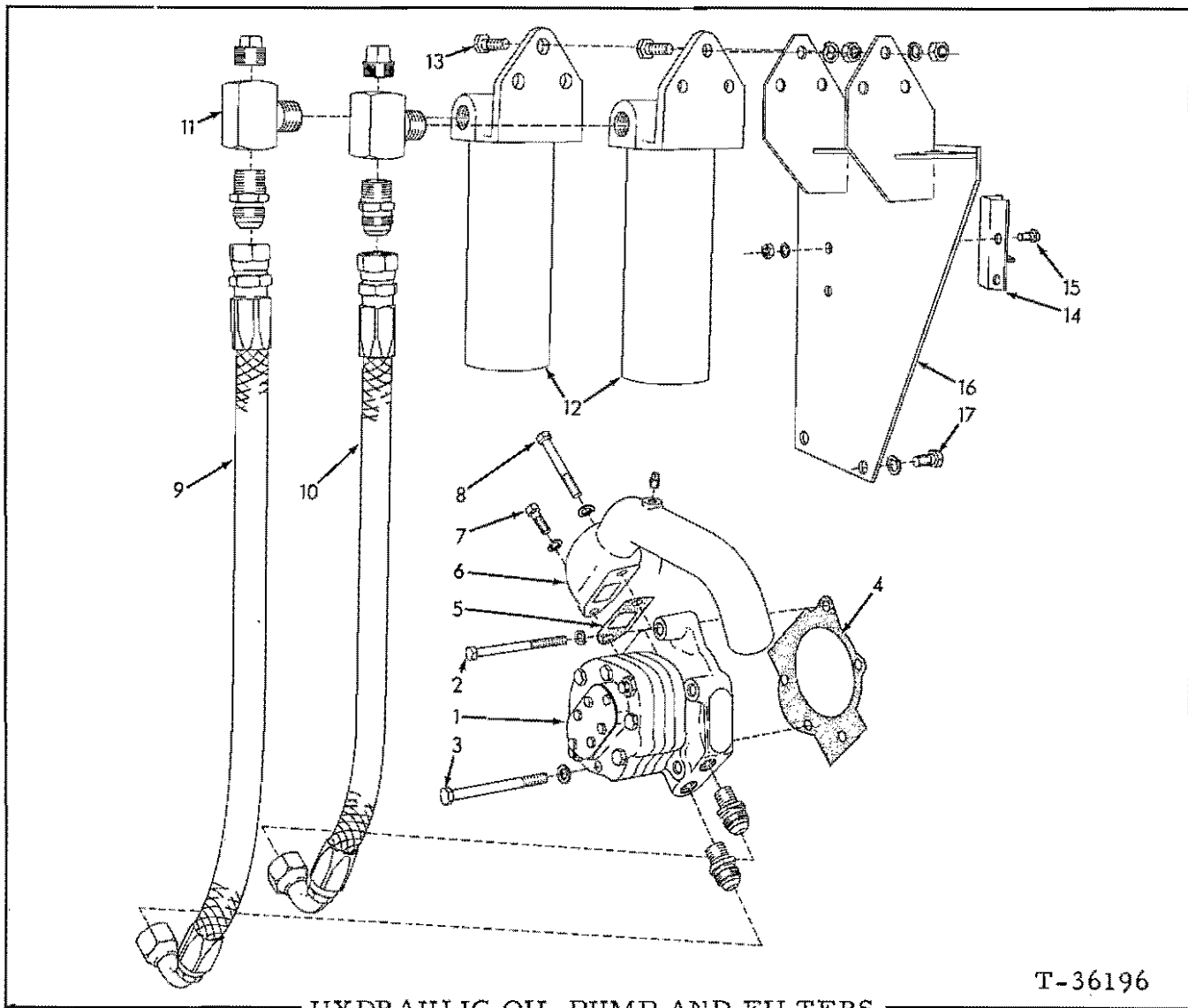


USAGE: See page 366

ITEM PART NO. QTY. DESCRIPTION

NOTE: Quantities indicated are for one (1) Filter Assembly only

1	70623045	1	BRACKET ASSEMBLY, mounting (Includes hardware indented below)
	70903765	2	SCREW, machine, 5/16"NC x 2-1/2"
	70904205	2	LOCKWASHER, 5/16"
	70901151	2	NUT, square, 5/16"NC
2	70629643	1	CASE (Includes lower clamp ring)
3	70623049	1	ELEMENT PACKAGE (Includes item 4)
4	70607393	1	O-RING, case cover
5	70629642	1	COVER ASSEMBLY (Includes relief valve and upper clamp ring)
6	70070960	6	CAPSCREW, 3/8"NC x 1-1/2"
	70904206	6	LOCKWASHER, 3/8"



HYDRAULIC OIL PUMP AND FILTERS

T-36196

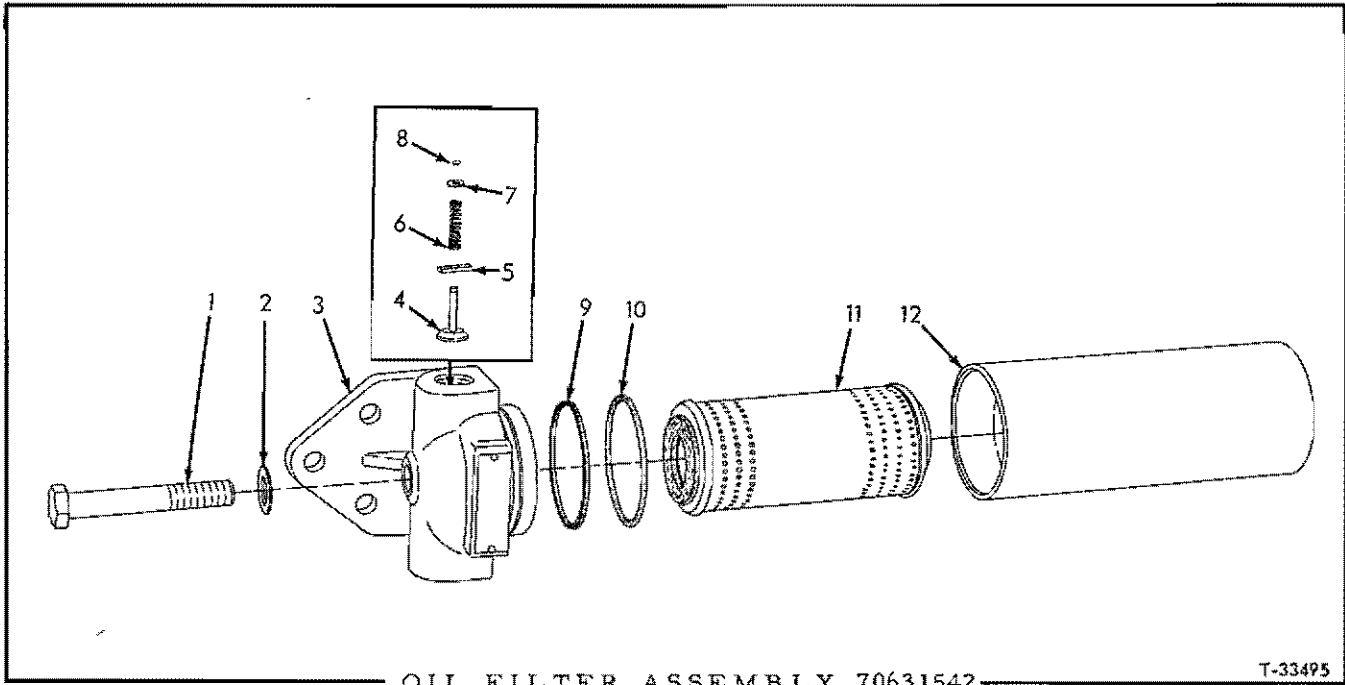
USAGE: Tractors serial No. 5550 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	70099915	1	PUMP ASSY. (Roper. See page 357 for parts) (Original equipment. Can be replaced by Pump Assy. 70638911, 3 Capscrews 70082013, 2 Cap- screws 70041250 and 1 Tube 70640631)
	70638911	1	PUMP ASSY. (Webster. See page 357A for parts) (Used as service replacement for Pump Assy. 70099915. Provides 75% capacity increase)
	70654180	1	PUMP ASSY. ("Cessna" See page 375C for parts) (Used as service replacement for Pump Assy. 70099915)
2	70082937	3	CAPSCREW, 3/8"NC x 4-1/2"
	70082013	3	CAPSCREW, 3/8"NC x 3-1/4" (For Pump 70638911 only)
	70904206	3	LOCKWASHER, 3/8"
3	70622781	2	CAPSCREW, 7/16"NC x 4-7/8"
	70041250	2	CAPSCREW, 7/16"NC x 1-1/4" (For Pump 70638911 only)
	70904207	2	LOCKWASHER, 7/16"

(Continued)

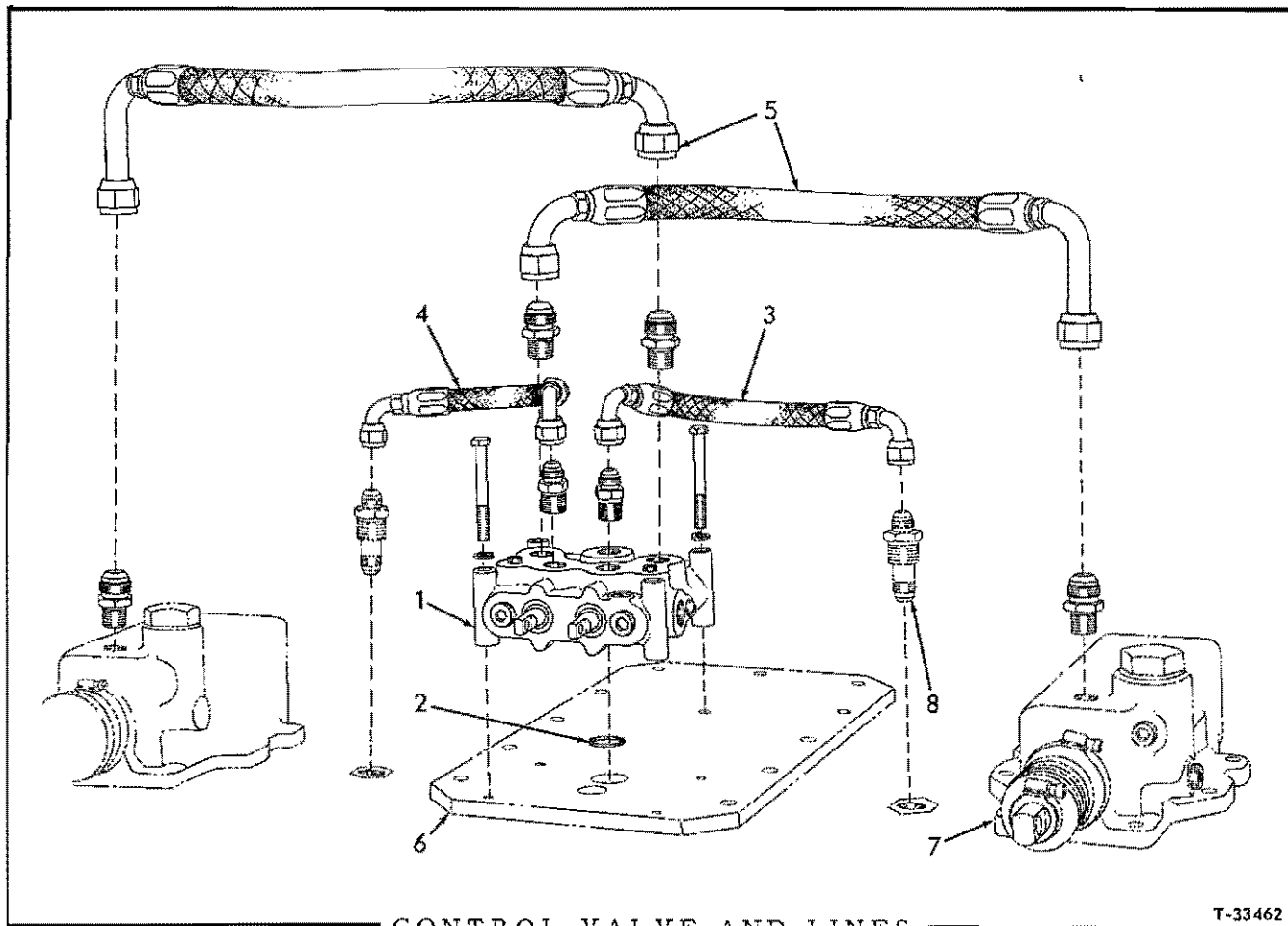
HYDRAULIC OIL PUMP AND FILTERS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
4	70082810	1	GASKET, hydraulic pump
5	70082811	1	GASKET, inlet elbow
6	70623171	1	ELBOW, pump inlet
	70901651	1	PLUG, pipe, 1/8" NPT
7	70041250	1	CAPSCREW, 7/16" NC x 1-1/4"
8	70082905	1	CAPSCREW, 7/16" NC x 3-1/4"
	70904207	2	LOCKWASHER, 7/16"
9	70631503	1	HOSE ASSY., pump to right filter (See page 6 for parts)
	70919615	1	CONNECTOR, flare type, 3/4" tube, 1/2" NPT male
	70919342	1	CONNECTOR, flare type, 3/4" tube, 3/4" NPT male
10	70631502	1	HOSE ASSY., pump to left filter (See page 6 for parts)
	70919615	1	CONNECTOR, flare type, 3/4" tube, 1/2" NPT male
	70919342	1	CONNECTOR, flare type, 3/4" tube, 3/4" NPT male
11	70634096	2	TEE, pump hose
	70905262	2	PLUG, pipe, 3/4" NPT
12	70631542	2	FILTER ASSY. (See page 372 for parts)
13	70614478	6	CAPSCREW, 1/2" NF x 1-3/8"
	70904208	6	LOCKWASHER, 1/2"
	70911043	6	NUT, 1/2" NF
14	70623279	1	BRACKET, supporting
15	70035167	2	CAPSCREW, 3/8" NF x 7/8"
	70904206	2	LOCKWASHER, 3/8"
	70911041	2	NUT, 3/8" NF
16	70631501	1	BRACKET, filter mounting
17	70035220	2	CAPSCREW, 1/2" NC x 1-1/8"
	70904208	2	LOCKWASHER, 1/2"



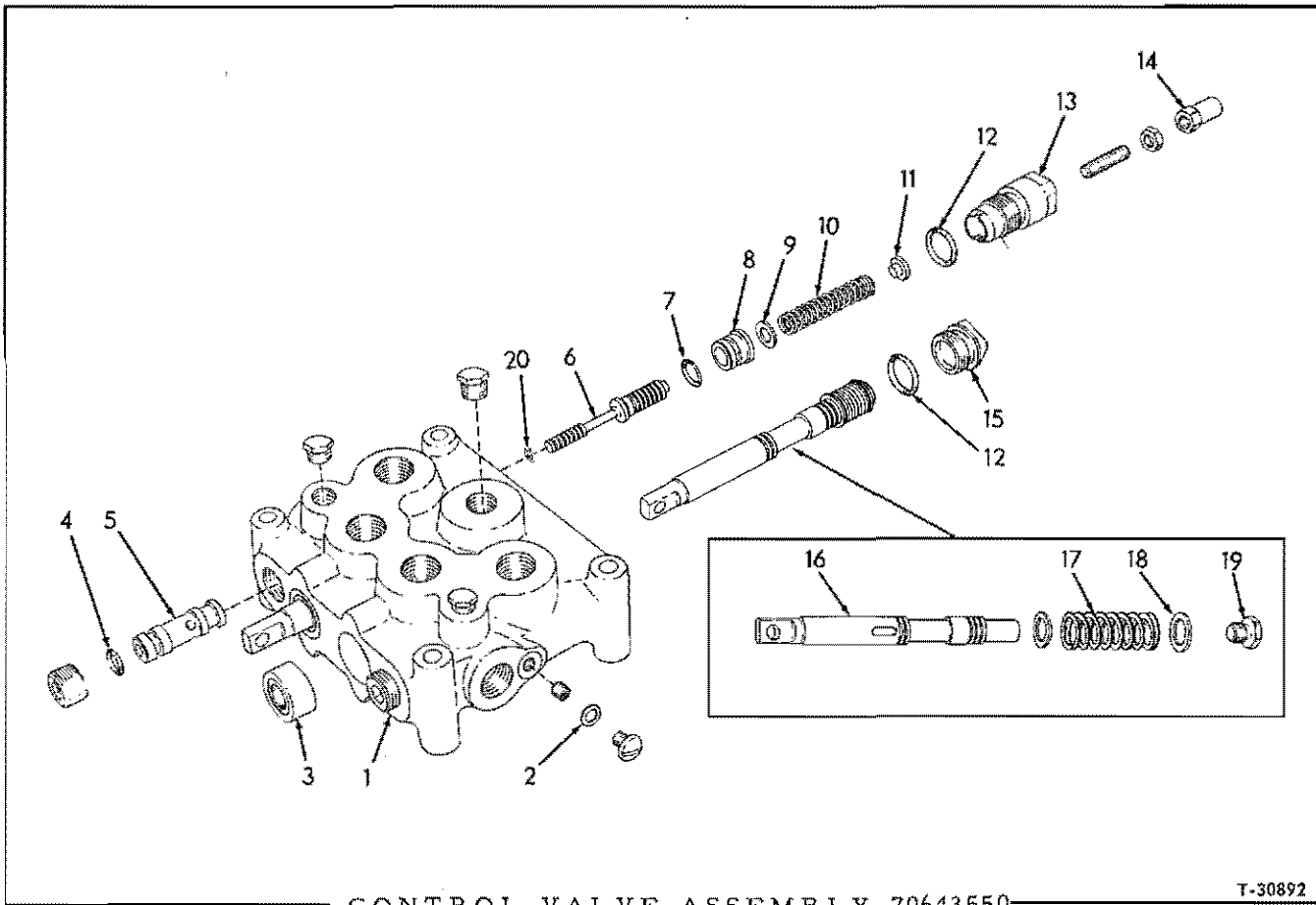
USAGE: See page 370

ITEM	PART NO.	QTY.	DESCRIPTION
1	70070299	1	CAPSCREW, head retaining (5/8"NF x 4")
2	70631869	1	WASHER, head retaining capscREW
3	70631846	1	HEAD
4	70631871	1	VALVE, by-pass (Requires snap ring)(Early units)
	70646302	1	VALVE, by-pass (Requires coter pin)(Late units)
5	70631868	1	SPANNER, by-pass valve
6	70631870	1	SPRING, by-pass valve
7	70632060	1	WASHER, by-pass valve spring
8	70632061	1	RING, snap, by-pass valve (Early units)
	70900970	1	PIN, coter, 1/16" x 1/2" (Late units)
9	70632062	1	RING, sealing, filter head
10	70632063	1	O-RING, filter head
11	70631828	1	ELEMENT KIT (Includes items 2, 9 and 10)
12	70631872	1	TANK



USAGE: Tractors serial No. 5154 and up, including No. 5104

ITEM	PART NO.	QTY.	DESCRIPTION
1	70643550	1	VALVE ASSEMBLY, control (See page 374 for parts)
	70917151	4	CAPSCREW, 3/8"NF x 3-1/4"
	70904206	4	LOCKWASHER, 3/8"
2	70923575	1	O-RING, valve to compartment cover
3	70629785	1	HOSE ASSEMBLY, clutch control, left (See HOSE PARTS)
	70919128	1	CONNECTOR, flare type, 1/2" tube, 1/2"NPT male
4	70629780	1	HOSE ASSEMBLY, clutch control, right (See HOSE PARTS)
	70919128	1	CONNECTOR, flare type, 1/2" tube, 1/2"NPT male
5	70624187	2	HOSE ASSEMBLY, brake control (See HOSE PARTS) (Not for Model HD16GC)
	70623287	2	HOSE ASSEMBLY, brake control (See HOSE PARTS) (Model HD16GC only)
	70919615	4	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male
6	-----	-	COVER, bevel gear compartment (See STEERING CLUTCH AND FINAL DRIVE HOUSING)
7	-----	-	VALVE ASSEMBLY (See HYDRAULIC BRAKES)
8	-----	-	UNION (See STEERING CLUTCHES)



USAGE: See page 373

ITEM PART NO. QTY. DESCRIPTION

1	-----	1	HOUSING (Not serviced separately)
	70919840	2	PLUG, pipe, hex-hd., 1/4"NPT
	70920333	1	PLUG, pipe, hex-hd., 3/8"NPT
	70908944	2	PLUG, pipe, hex-socket, 1/2"NPT
	70900585	2	SCREW, machine, 5/16"NC x 5/8"
2	73001737	2	GASKET, plugging screw
3	70623420	2	SEAL, oil, operating plunger
4	70923548	2	O-RING, relief valve front seat
5	73014007	2	SEAT, relief valve, front
	70905564	2	SETSCREW, hex-socket, cup-pt., 5/16"NC x 5/8"
6	70623431	2	PLUNGER, relief valve
7	70923376	2	O-RING, relief valve rear seat
8	70623430	2	SEAT, relief valve, rear
9	70631935	2	WASHER, relief valve plunger

(Continued)

CONTROL VALVE ASSEMBLY 70643550 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
10	70630528	2	SPRING, relief valve
11	70623427	2	GUIDE, relief valve spring
12	70923574	4	O-RING, rear caps
13	70623428	2	CAP, relief valve adjustment
	70921303	2	SETSCREW, oval-pt., 3/8"NF x 1-1/2"
	70911048	2	NUT, jam, 3/8 "NF
14	73002757	2	NUT, acorn, relief valve
15	70623429	2	CAP, operating plunger
16	-----	2	PLUNGER, operating (not serviced separately)
17	70627378	2	SPRING, operating plunger
18	70627377	4	WASHER, operating plunger
19	70627380	2	CAP, operating plunger
20	70655743	2	O-RING, relief valve plunger

STEERING LEVERS AND LINKAGE

USAGE: Tractors prior to serial No. 5154, excluding No. 5104

* Models HD16AC, DC, FC
 ** Model HD16GC
 *** Models HD16A, D

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70078620	2	2	2	GRIP, steering lever
2	70052583	1	-	1	LEVER, steering, left
	70090517	-	1	-	LEVER, steering, left
3	70052584	1	-	1	LEVER, steering, right
	70090518	-	1	-	LEVER, steering, right
4	70089182	-	2	-	EXTENSION, steering lever
5	70054236	1	1	1	SHAFT, steering lever
6	70915989	1	1	1	PIN, roll, 3/16" x 1-3/8"
7	70083265	2	-	2	ROD, control, upper
	70087635	-	2	-	ROD, control, upper
	70078810	4	4	4	PIN, yoke, 3/8" diam.
	70900801	4	4	4	PIN, cotter, 3/32" x 3/4"
	70628736	-	2	-	YOKE, rod end, adjustable, 3/8"NF
	70911041	-	2	-	NUT, 3/8"NF
8	70099571	1	1	1	BRACKET, steering lever
9	70070469	1	-	1	CAPSCREW, 1/2"NF x 1-1/4" (lower right hand position)
10	70035018	5	6	5	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	6	6	6	LOCKWASHER, 1/2"
	70911043	5	-	5	NUT, 1/2"NF
11	70083455	1	-	1	PLATE, air baffle, upper
	70064531	2	-	2	WASHER, plain
	70083995	1	-	1	PLATE, air baffle, lower
	70094689	1	-	1	PLATE, air baffle (Effective with tractor #4001)
12	70052566	2	2	2	BLOCK, pillow, cross shaft
13	70036034	4	4	4	CAPSCREW, 3/8"NF x 1"
	70904206	4	4	4	LOCKWASHER, 3/8"
14	70061554	4	4	4	SHIM, aligning, upper cross shaft (Use as required)
15	70052644	2	2	2	BEARING, needle, upper cross shaft (3/4" long)
16	70083650	1	1	1	SHAFT, cross, upper
	70905123	2	2	2	KEY, #9 woodruff, 3/16" x 3/4"
17	70083648	1	1	1	TUBE, upper cross shaft levers

} Used prior to tractor #4001

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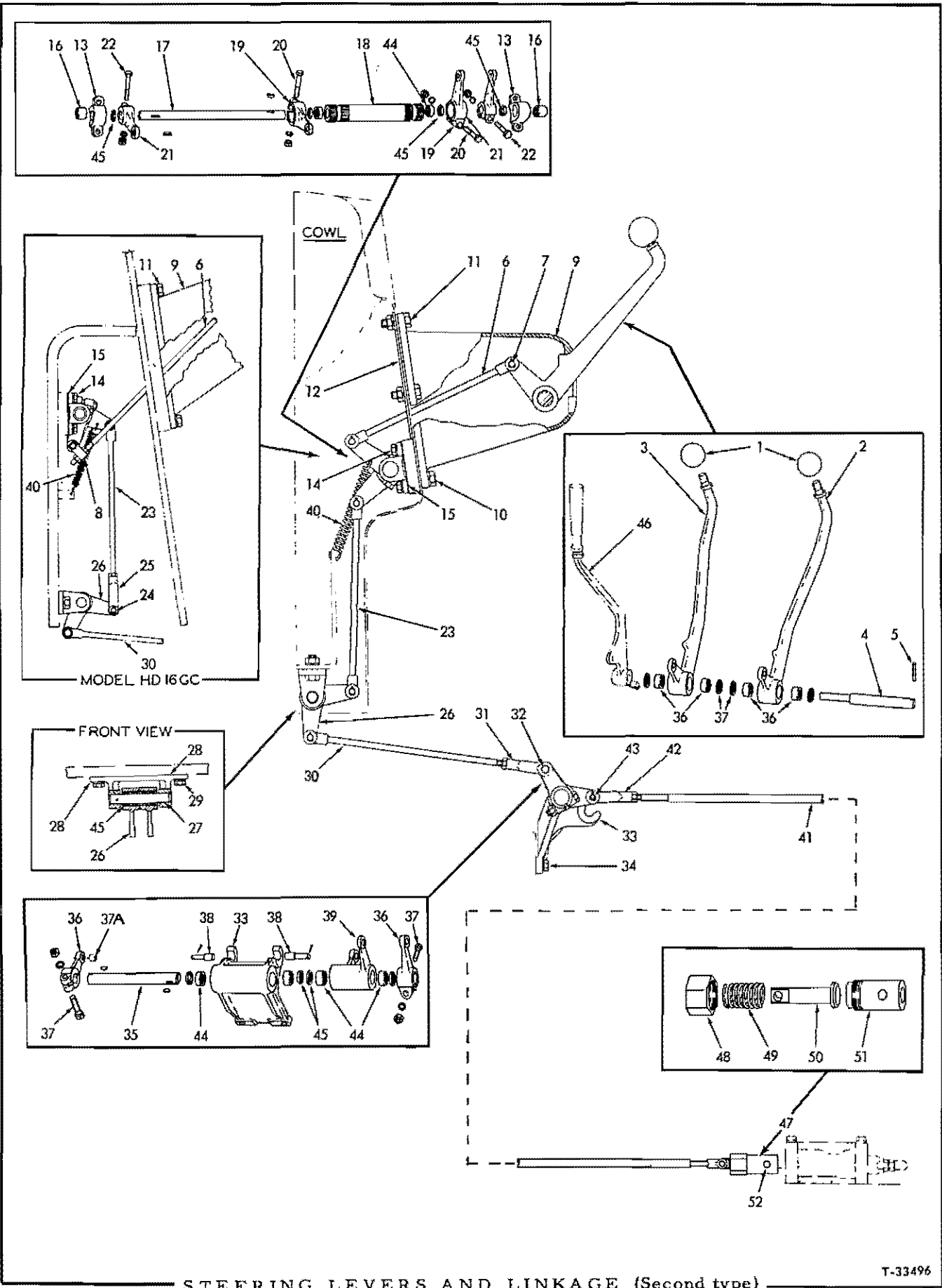
STEERING LEVERS AND LINKAGE (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
18	70080499	2	2	2	LEVER, upper cross shaft tube
19	70046419	2	2	2	CAPSCREW, 3/8"NF x 2"
	70904206	2	2	2	LOCKWASHER, 3/8"
	70911041	2	2	2	NUT, 3/8"NF
20	70081300	2	2	2	LEVER, upper cross shaft
21	70046419	2	2	2	CAPSCREW, 3/8"NF x 2"
	70904206	2	2	2	LOCKWASHER, 3/8"
	70911041	2	2	2	NUT, 3/8"NF
22	70083339	2	-	2	ROD, control, vertical
	70084474	-	2	-	ROD, control, vertical
	70911041	2	2	2	NUT, 3/8"NF
	70628736	2	2	2	YOKE, rod end, adjustable, 3/8"NF
	70078810	4	4	4	PIN, yoke, 3/8" diam.
	70900801	4	4	4	PIN, cotter, 3/32" x 3/4"
23	70083782	2	2	2	BELLCRANK
24	70083798	1	1	1	SHAFT, bellcrank
	70915989	1	1	1	PIN, roll, 3/16" x 1-3/8"
25	70083826	1	1	1	BRACKET, bellcrank shaft
26	70070469	2	-	2	CAPSCREW, 1/2"NF x 1-1/4" (Not used with decelerator)
	70035073	2	-	2	CAPSCREW, 1/2"NF x 1-3/4" (Also attaches decelerator cross shaft bracket)
	70035018	-	2	-	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	2	2	2	LOCKWASHER, 1/2"
	70911043	2	-	2	NUT, 1/2"NF
27	70081534	2	2	-	ROD, control, lower front (20-1/2" long)
	70081535	-	-	2	ROD, control, lower front (14-1/4" long)
	70911041	2	2	2	NUT, 3/8"NF
	70628736	2	2	2	YOKE, rod end, adjustable, 3/8"NF
	70078810	4	4	4	PIN, yoke, 3/8" diam.
	70900801	4	4	4	PIN, cotter, 3/32" x 3/4"
28	70099491	1	1	-	BRACKET, lower cross shaft
	70099574	-	-	1	BRACKET, lower cross shaft
29	70035733	2	2	-	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	2	2	-	LOCKWASHER, 1/2"
30	70083803	1	1	1	SHAFT, cross, lower
	70905123	2	2	2	KEY, #9 woodruff, 3/16" x 3/4"

(Continued)

STEERING LEVERS AND LINKAGE (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
31	70081300	2	2	-	LEVER, lower cross shaft (long)
	70630836	-	-	2	LEVER ASSEMBLY, lower cross shaft (short)(Includes item 32A)
32	70046419	2	2	2	CAPSCREW, 3/8"NF x 2"
	70904206	2	2	2	LOCKWASHER, 3/8"
	70911041	2	2	2	NUT, 3/8"NF
32A	70624584	2	2	2	BUSHING, lower cross shaft lever
33	70052564	2	2	2	PIN, control rod yoke
	70900801	2	2	2	PIN, cotter, 3/32" x 3/4"
34	70083066	1	1	-	LEVER, dual, lower cross shaft (long)
	70083802	-	-	1	LEVER, dual, lower cross shaft (short)
35	70043881	2	2	2	SPRING, control rod retracting
36	70081542	2	2	-	ROD, control, lower rear (16" long)
	70081532	-	-	2	ROD, control, lower rear (22" long)
	70911043	2	2	2	NUT, 1/2"NF
37	70052601	2	2	2	NUT, adjusting, rear control rod
38	70053005	2	2	2	NUT, rear control rod yoke (1/2"NF left hand thread)
39	70073034	2	2	2	YOKE, rear control rod
40	70049993	2	2	2	PIN, rear control rod yoke
	70900805	2	2	2	PIN, cotter, 1/8" x 3/4"
41	70052643	14	14	14	BEARING, needle, control linkage (1/2" long)
42	70052662	16	16	16	SEAL, dust, control linkage bearings
43	-----	-	-	-	LEVER, throttle (See THROTTLE CONTROL)



STEERING LEVERS AND LINKAGE (Second type)

T-33496

STEERING LEVERS AND LINKAGE

USAGE: Tractors serial No. 5154 and up, including No. 5104

* Models HD16AC, DC, FC
 ** Model HD16GC
 *** Models HD16A, D

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70090020	2	2	2	KNOB, steering lever
2	70052583	1	-	1	LEVER, steering, left
	70624225	-	1	-	LEVER, steering, left
3	70052584	1	-	1	LEVER, steering, right
	70624226	-	1	-	LEVER, steering, right
4	70054236	1	1	1	SHAFT, steering lever
5	70915989	1	1	1	PIN, roll, 3/16" x 1-3/8"
6	70083265	2	-	2	ROD, control, upper
	70624222	-	2	-	ROD, control, upper
	70911041	-	4	-	NUT, 3/8"NF
7	70078810	4	2	4	PIN, upper control rod
	70900801	4	2	4	PIN, cotter, 3/32" x 3/4"
8	70624223	-	2	-	YOKE, upper control rod
9	70099571	1	-	1	BRACKET, steering lever
	70624224	-	1	-	BRACKET, steering lever
10	70070469	1	-	1	CAPSCREW, 1/2"NF x 1-1/4" (lower right hand position)
11	70035018	5	5	5	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	6	5	6	LOCKWASHER, 1/2"
	70911043	5	-	5	NUT, 1/2"NF
12	70094689	1	-	1	PLATE, air baffle
13	70052566	2	2	2	BLOCK, pillow, cross shaft
14	70036034	4	4	4	CAPSCREW, 3/8"NF x 1"
	70904206	4	4	4	LOCKWASHER, 3/8"
15	70061554	4	4	4	SHIM, aligning, upper cross shaft (Use as required)
16	70052644	2	2	2	BEARING, needle, upper cross shaft (3/4" long)
17	70083650	1	1	1	SHAFT, cross, upper
	70905123	2	2	2	KEY, #9 woodruff, 3/16" x 3/4"
18	70083648	1	1	1	TUBE, upper cross shaft levers

(Continued)

STEERING LEVERS AND LINKAGE (Continued)

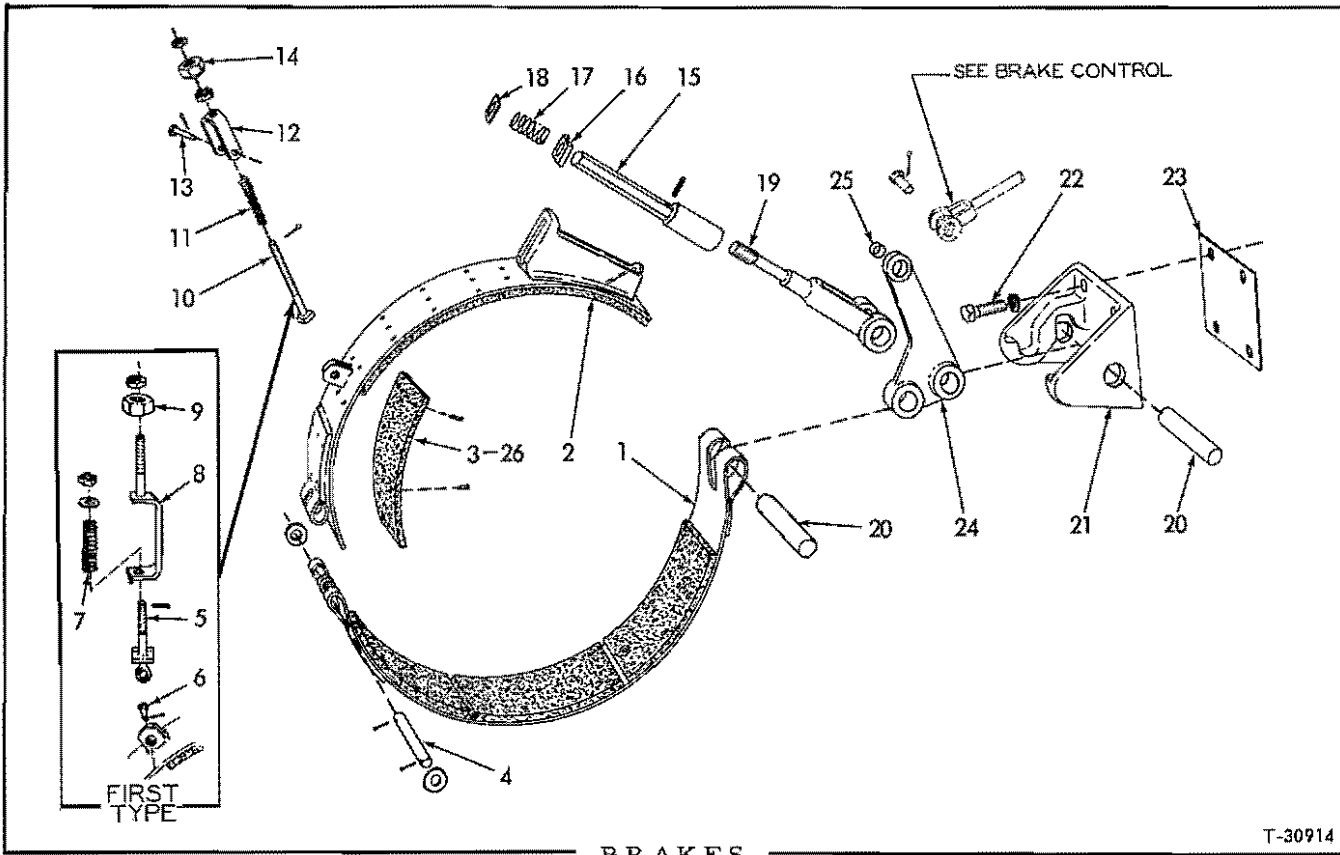
ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
19	70630841	2	-	2	LEVER, upper cross shaft tube
	70080499	-	2	-	LEVER, upper cross shaft tube
20	70046419	2	2	2	CAPSCREW, 3/8"NF x 2"
	70904206	2	2	2	LOCKWASHER, 3/8"
	70911041	2	2	2	NUT, 3/8"NF
21	70630837	2	-	2	LEVER, upper cross shaft
	70081300	-	2	-	LEVER, upper cross shaft
22	70046419	2	2	2	CAPSCREW, 3/8"NF x 2"
	70904206	2	2	2	LOCKWASHER, 3/8"
	70911041	2	2	2	NUT, 3/8"NF
23	70097094	2	-	2	ROD, control, vertical
	70084474	-	2	-	ROD, control, vertical
	70911041	-	2	-	NUT, 3/8"NF
24	70078810	4	4	4	PIN, vertical control rod
	70900801	4	4	4	PIN, cotter, 3/32" x 3/4"
25	70628736	-	2	-	YOKE, vertical control rod
26	70083782	2	2	2	BELLCRANK
27	70083798	1	1	1	SHAFT, bellcrank
	70915989	1	1	1	PIN, roll, 3/16" x 1-3/8"
28	70083826	1	1	1	BRACKET, bellcrank shaft
29	70070469	-	-	2	CAPSCREW, 1/2"NF x 1-1/4" (Not used with decelerator)
	70035073	2	-	2	CAPSCREW, 1/2"NF x 1-3/4" (Also attaches decelerator cross shaft bracket)
	70035018	-	2	-	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	2	2	2	LOCKWASHER, 1/2"
	70911043	2	-	2	NUT, 1/2"NF
30	70081534	2	2	-	ROD, control, lower front (20-1/2" long)
	70624050	-	-	2	ROD, control, lower front (13-1/2" long)
	70911041	2	2	2	NUT, 3/8"NF
31	70628736	2	2	2	YOKE, lower front control rod
32	70078810	4	4	4	PIN, lower front control rod
	70900801	4	4	4	PIN, cotter, 3/32" x 3/4"
33	70623290	1	1	1	BRACKET, lower cross shaft
34	70035733	2	2	2	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	2	2	2	LOCKWASHER, 1/2"

(Continued)

STEERING LEVERS AND LINKAGE (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
35	70624180	1	1	1	SHAFT, cross, lower KEY, #9 woodruff, 3/16" x 3/4"
	70905123	2	2	2	
36	70630836	2	2	2	LEVER ASSEMBLY, lower cross shaft (Includes item 37A)
37	70046419	2	2	2	CAPSCREW, 3/8"NF x 2"
	70904206	2	2	2	LOCKWASHER, 3/8"
	70911041	2	2	2	NUT, 3/8"NF
		2	2	2	
37A	70624584	2	2	2	BUSHING, lower cross shaft lever
38	70052564	2	2	2	PIN, control rod yoke
	70900801	2	2	2	PIN, cotter, 3/32" x 3/4"
39	70624184	1	1	1	LEVER, dual, lower cross shaft
40	70072438	2	2	2	SPRING, control rod retracting
41	70630866	2	2	-	ROD, control, lower rear (If for tractors prior to #5368 also order items 47 and 52)
		-	-	2	ROD, control, lower rear (If for tractors prior to #5368 also order items 47 and 52)
	70911041	2	2	2	NUT, 3/8"NF
42	70628736	2	2	2	YOKE, lower rear control rod (Original equipment)
	70644578	2	2	2	YOKE, lower rear control rod (Service replacement. Used only on tractors equipped with field brake changeover kit for increased mechanical advantage)
43	70627451	2	2	2	PIN, lower rear control rod
	70900801	2	2	2	PIN, cotter, 3/32" x 3/4"
44	70052643	14	14	14	BEARING, needle, control linkage (1/2" long)
45	70052662	16	16	16	SEAL, dust, control linkage bearings
46	-----	2	2	2	LEVER, throttle (See THROTTLE CONTROL)
47	70656151	2	2	2	OVERTRAVEL ASSEMBLY (Consists of items 48 thru 51) (Effective with tractor #5368)
48	-----	2	2	2	CAP, overtravel
49	-----	2	2	2	SPRING, overtravel
50	-----	2	2	2	PLUNGER, overtravel
51	-----	2	2	2	SEAT, overtravel
52	70630833	2	2	2	PIN, overtravel (Effective with tractor #5368)
	70900801	2	2	2	PIN, cotter, 3/32" x 3/4"

} Not serviced separately



BRAKES

T-30914

USAGE: Tractors prior to serial No. 4560 excluding EXCEPTIONS below

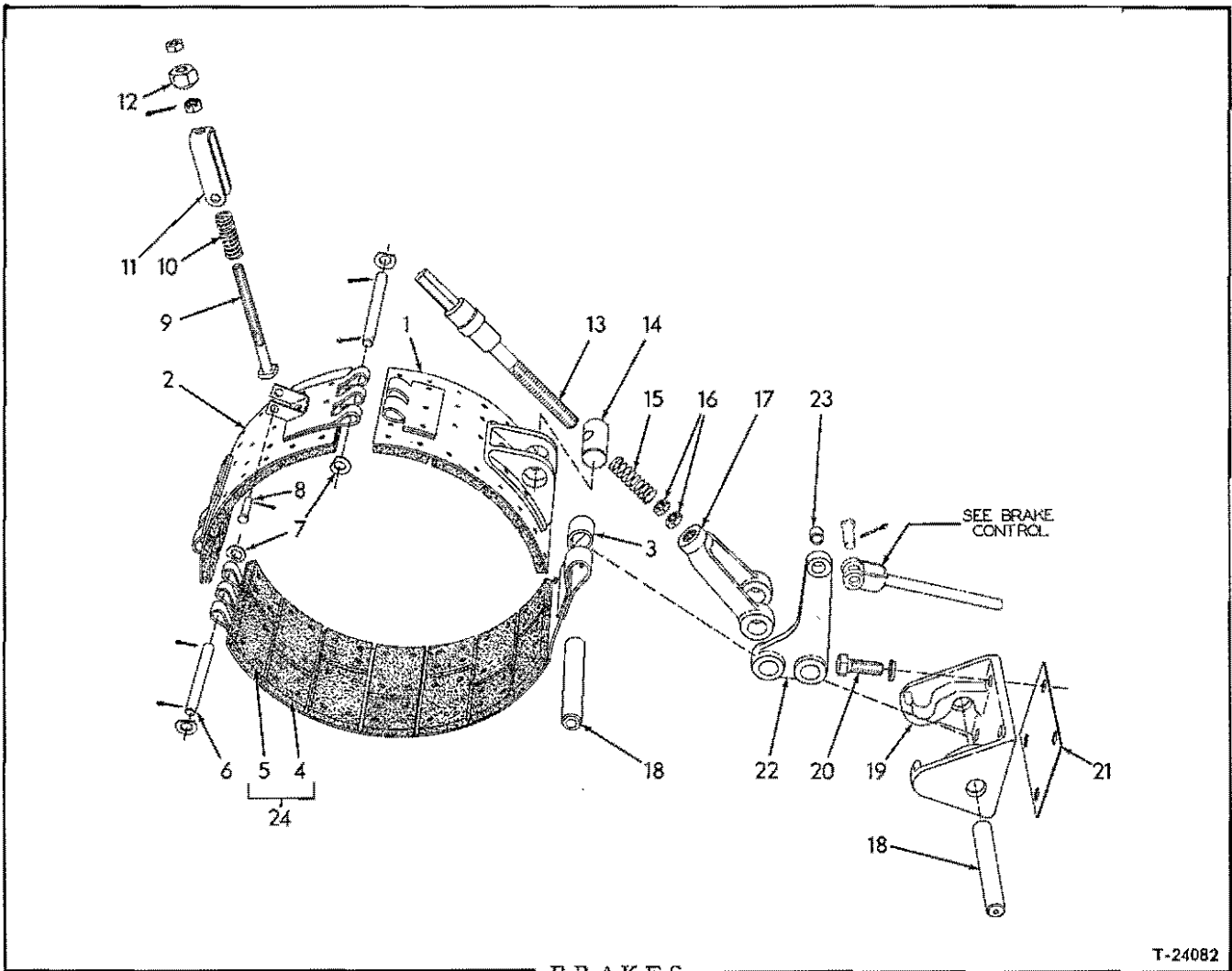
ITEM	PART NO.	QTY.	DESCRIPTION
1	70059063	2	BAND ASSEMBLY, brake, bottom section (Each includes 3 LININGS 70058308, 27 RIVETS 70911097 and 6 RIVETS 70915369)
2	70058940	2	BAND ASSEMBLY, brake, top section (Each includes 3 LININGS 70058308, 22 RIVETS 70911097 and 10 RIVETS 70915369)
3	70058308	12	LINING, brake band
	70911097	98	RIVET, tubular, brass, fl-hd., 3/16" x 3/8" } See item
	70915639	32	RIVET, tubular, brass, fl-hd., 3/16" x 21/32" } 26
4	70059096	2	PIN, hinge, brake band
	70910244	4	WASHER, plain, SAE std., 1/2"
	70900805	4	PIN, cotter, 1/8" x 3/4"
NOTE: Items 5 thru 9 comprise the First type Band Support used on tractors prior to serial No. 3041			
5	70060772	2	BOLT, eye, band supporting
	70910863	2	NUT, slotted, 3/8"NF
	70900817	2	WASHER, plain, U.S. std., 3/8"
	70900802	2	PIN, cotter, 3/32" x 1"
6	70917646	2	PIN, eye bolt
	70900942	2	PIN, cotter, 3/32" x 5/8"
7	70060668	2	SPRING, band supporting eye bolt
8	70060770	2	SUPPORT, brake band adjustment
	70913830	2	NUT, jam, 1/2"NF
9	70060774	2	NUT, brake band adjustment support

(Continued)

BRAKES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
<u>NOTE:</u> Items 10 thru 14 comprise the Second type Band Support effective with tractor serial No. 3041			
10	70095215	2	BOLT, band supporting
	70910867	2	NUT, slotted, 1/2"NF
	70900807	2	PIN, cotter, 1/8" x 1-1/4"
	70913830	2	NUT, jam, 1/2"NF
11	70095214	2	SPRING, band supporting
12	70095216	2	YOKE, band supporting
13	70085038	2	PIN, band supporting yoke
	70900942	2	PIN, cotter, 3/32" x 5/8"
14	70060774	2	NUT, band supporting bolt
15	70078990	2	ADJUSTER, brake band
	70915634	2	PIN, roll, 1/4" x 1-1/8"
16	70079208	2	BLOCK, adjuster spring
17	70079203	2	SPRING, adjuster
18	70079212	2	WASHER, adjuster spring
19	70059113	2	FORK, brake band adjusting
20	70059097	4	PIN, brake band
21	70059098	2	BRACKET, brake lever (Used prior to tractor #4277)
	70099420	2	BRACKET, brake lever (Effective with tractor #4277)
22	70023465	8	CAPSCREW, 5/8"NF x 1-3/4" } Used prior to
	70904209	8	LOCKWASHER, 5/8" } tractor #4277
	70072595	8	CAPSCREW, 3/4"NF x 1-3/4" } Effective with
	70904369	8	LOCKWASHER, 3/4" } tractor #4277
23	70099428	2	SHIM, brake lever bracket (Use as required)
24	70067634	2	LEVER ASSEMBLY, brake band (Includes item 25)
25	70052669	2	BUSHING, brake band lever
26	70076124	2	LINING KIT, brake band (Includes linings and attaching rivets for one (1) side only)

EXCEPTIONS: Tractor serial Nos. 4253, 4260, 4364, 4369, 4385, 4390, 4396, 4397, 4403, 4421, 4426, 4427, 4432, 4439, 4445, 4450, 4474, 4475, 4480, 4481, 4486, 4487, 4492, 4498, 4501, 4505, 4507, 4508, 4516, 4524, 4525, 4530, 4534, 4540, 4541, 4542, 4545, 4546, 4547, 4548, 4550, 4551, 4552, 4554, 4555, 4557, 4559



USAGE: Tractors serial No. 4560 thru No. 5153 including EXCEPTIONS below, but excluding No. 5104

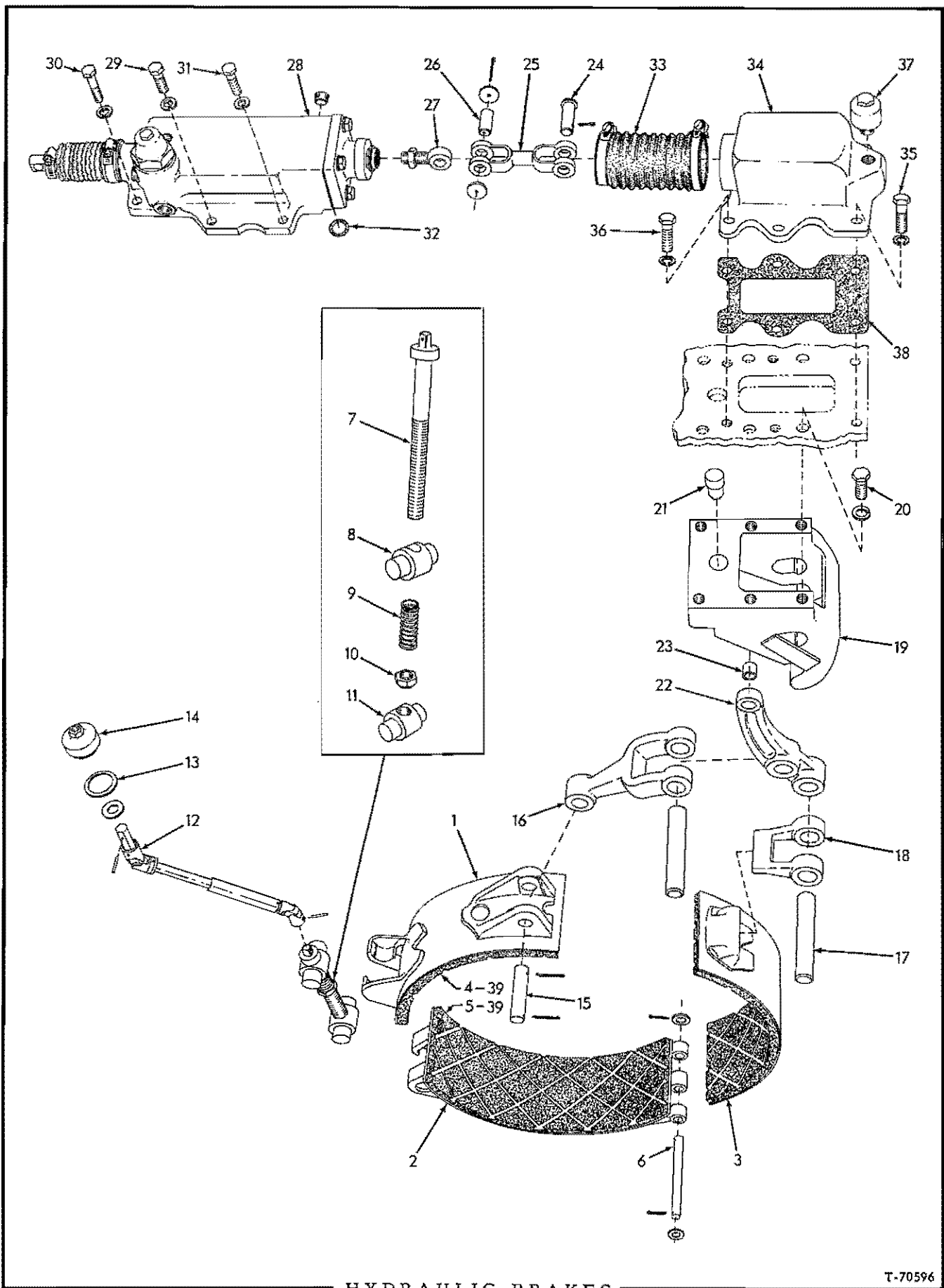
ITEM	PART NO.	QTY.	DESCRIPTION
1	70099275	2	BAND ASSEMBLY, top section (Each includes 4 LININGS 70099272, 4 LININGS 70099273, 25 RIVETS 70920218 and 7 RIVETS 70920257)
2	70099276	2	BAND ASSEMBLY, intermediate section (Each includes 4 LININGS 70099272, 4 LININGS 70099273, 24 RIVETS 70920218 and 8 RIVETS 70920257)
3	70099274	2	BAND ASSEMBLY, bottom section (Each includes 7 LININGS 70099272, 7 LININGS 70099273, 52 RIVETS 70920218 and 4 RIVETS 70920257)
4	70099272	30	LINING, brake band (2-1/2" long)
	70920218	102	RIVET, tubular, steel, 3/16" x 7/16"
	70920257	18	RIVET, tubular, steel, 3/16" x 23/32"
			} See item 24

(Continued)

B R A K E S (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
5	70099273	30	LINING, brake band (4-3/16" long)	} See item 24
	70920218	108	RIVET, tubular, steel, 3/16" x 7/16"	
	70920257	12	RIVET, tubular, steel, 3/16" x 23/32"	
6	70059096	4	PIN, hinge, brake band	
	70900805	8	PIN, cotter, 1/8" x 3/4"	
7	70099271	8	WASHER, band hinge pin	
8	70097880	2	PIN, band supporting yoke	
	70900942	2	PIN, cotter, 3/32" x 5/8"	
9	70095215	2	BOLT, band supporting	
	70910867	2	NUT, slotted, 1/2"NF	
	70900807	2	PIN, cotter, 1/8" x 1-1/4"	
	70913830	2	NUT, jam, 1/2"NF	
10	70095214	2	SPRING, band supporting	
11	70095216	2	YOKE, band supporting	
12	70060774	2	NUT, band supporting bolt	
13	70099280	2	SCREW, band adjusting	
14	70099320	2	PIN, swivel band adjusting screw	
15	70099281	2	SPRING, band adjusting screw	
16	70091420	4	NUT, band adjusting screw	
17	70099277	2	YOKE, band adjusting screw	
18	70059097	4	PIN, brake band	
19	70099420	2	BRACKET, brake lever	
20	70072595	8	CAPSCREW, 3/4"NF x 1-3/4"	
	70904369	8	LOCKWASHER, 3/4"	
21	70099428	2	SHIM, brake lever bracket (Use as required)	
22	70067634	2	LEVER ASSEMBLY, brake band (Includes item 23)	
23	70052669	2	BUSHING, brake band lever	
24	70099584	2	LINING KIT, brake band (Includes feramic linings and attaching rivets for one (1) side only. Original equipment)	
	70628679	2	LINING KIT, brake band (Includes molded type linings and attaching rivets for one (1) side only. Service replacement)	

EXCEPTIONS: Tractor serial No. 4253, 4260, 4364, 4369, 4385, 4390, 4396, 4397, 4403, 4421, 4426, 4427, 4432, 4439, 4445, 4450, 4474, 4475, 4480, 4481, 4486, 4487, 4492, 4498, 4501, 4505, 4507, 4508, 4516, 4524, 4525, 4530, 4534, 4540, 4541, 4542, 4545, 4546, 4547, 4548, 4550, 4551, 4552, 4554, 4555, 4557, 4559



HYDRAULIC BRAKES

T-70596

HYDRAULIC BRAKES

USAGE: Tractors serial No. 5154 and up, including No. 5104

ITEM	PART NO.	QTY.	DESCRIPTION
1	70638026	2	BAND ASSEMBLY, top section (Includes bonded lining)
2	70638028	2	BAND ASSEMBLY, bottom section (Includes bonded lining)
3	70638027	2	BAND ASSEMBLY, rear section (Includes bonded lining)
4	70623638	2	LINING, top band (Used prior to tractor #5758)
	70910914	48	
5	70622717	4	LINING, bottom and rear bands (Used prior to tractor #5758)
	70910914	108	
6	70623130	2	PIN, band hinge
	70912900	4	WASHER, plain, 21/32" x 1" x .109
	70900806	4	PIN, cotter, 1/8" x 1"
7	70623168	2	SCREW, band adjusting
8	70623181	2	PIN, adjusting screw, upper band
9	70623180	2	SPRING, band adjusting screw
10	70623179	2	NUT, band adjusting screw
11	70623153	2	PIN, adjusting screw, bottom band
12	70623560	2	DRIVE ASSEMBLY, universal, band adjustment (Serviced only as a unit)
	70921330	2	PIN, roll, 7/32" x 1-1/8" (lower)
	70920335	2	PIN, roll, 5/32" x 1-1/8" (upper)
	70624076	2	WASHER, plain
13	70623144	2	GASKET, brake adjustment hole plug
14	70653773	2	PLUG, brake adjustment hole
15	70623132	2	PIN, top band
	70900808	4	PIN, cotter, 1/8" x 1-1/2"
16	70623133	2	YOKE, brake band, upper
17	70623131	4	PIN, band yoke
18	70623157	2	YOKE, brake band, lower (Original equipment)
	70623158	2	* YOKE, brake band, lower (Service replacement)
19	70623637	2	BRACKET ASSEMBLY, band lever (Includes item 21) (Original equipment)
	70642880	2	* BRACKET ASSEMBLY, band lever (Includes item 21) (Service replacement)
20	70023465	12	CAPSCREW, 5/8"NF x 1-3/4"
	70904209	12	LOCKWASHER, 5/8"

} See item 39

* Used only on tractors equipped with field changeover kits for increased mechanical advantage

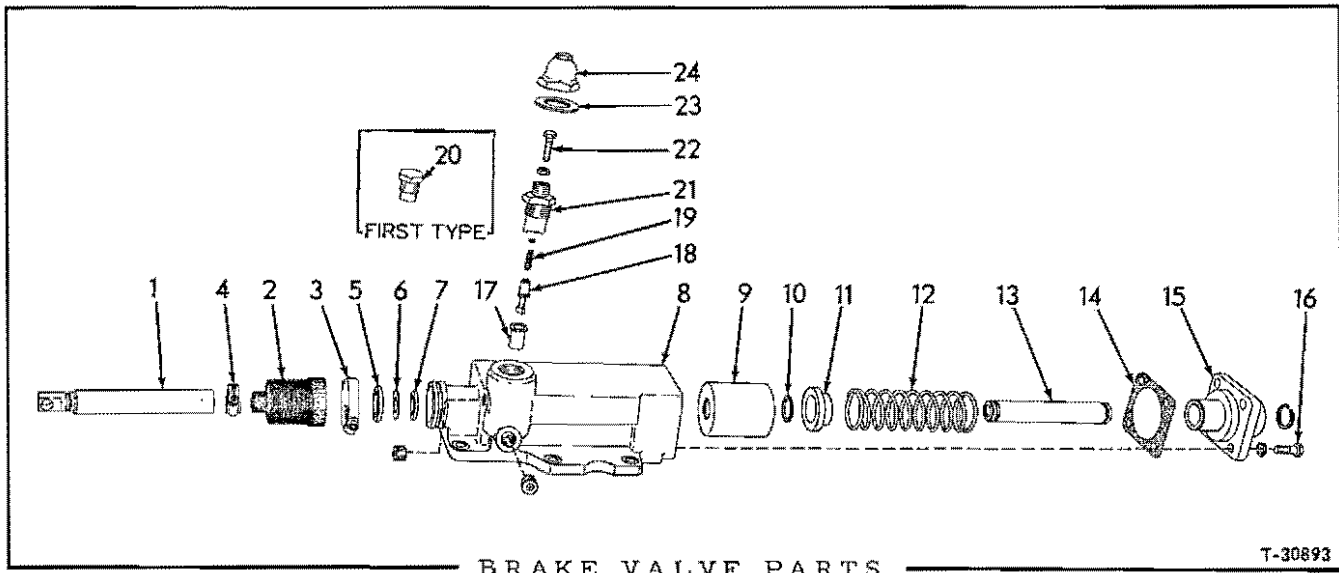
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HYDRAULIC BRAKES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
21	70643740	2	PIN, band lever bracket
22	70623774	2	LEVER ASSEMBLY, band operating (Includes item 23)(Original equipment)
	70643138	2	* LEVER ASSEMBLY, band operating (Includes item 23)(Service replacement)
23	70623164	2	BUSHING, band operating lever
24	70623139	2	PIN, connecting rod, rear
	70910302	2	PIN, cotter, 5/32" x 1-1/4"
25	70623140	2	ROD, connecting
26	70623141	2	PIN, connecting rod, front (Used prior to tractor #5809)
	70919761	2	PIN, roll, 1/8" x 1-1/4"
	70637729	2	PIN, connecting rod, front (Effective with tractor #5809)
	70904003	2	PIN, cotter, 1/8" x 2-1/4"
	70637730	4	WASHER, plain
27	70623142	2	EYE, connecting (Used prior to tractor #5809)
	70638818	2	EYE, connecting (Effective with tractor #5809)
	70910847	2	NUT, jam, 3/4"NF
28	70623213	2	VALVE ASSEMBLY, brake operating (See page 392 for parts)(Used prior to tractor #5833. Order VALVE ASSEMBLY 70638600)
	70638600	2	VALVE ASSEMBLY, brake operating (See page 392 for parts)(Effective with tractor #5833)(Original equipment)
	70644136	2	* VALVE ASSEMBLY, brake operating (See page 392 for parts)(Service replacement)
29	70908944	1	PLUG, pipe, hex-socket, 1/2"NPT
30	70614478	4	CAPSCREW, 1/2"NF x 1-3/8"
31	70070403	4	CAPSCREW, 1/2"NF x 3"
32	70035067	4	CAPSCREW, 1/2"NF x 2"
	70904208	12	LOCKWASHER, 1/2"
	70923575	2	O-RING, valve discharge port
33	70623138	2	BOOT, connecting
	70921914	4	CLAMP, hose, 2-5/16" to 3-1/4" diam.
34	70623137	2	COVER, band linkage
35	70035278	4	CAPSCREW, 1/2"NF x 2-3/4"
36	70070469	8	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	12	LOCKWASHER, 1/2"
37	70622207	2	BREATHER, clutch compartment
38	70623136	2	GASKET, band linkage cover
39	70629749	2	LINING KIT, brake band (Includes linings and attaching rivets for one (1) side only; items 4 and 5)(Used prior to tractor #5758)

* Used only on tractors equipped with field changeover kits for increased mechanical advantage

MEMO



USAGE: See page 389

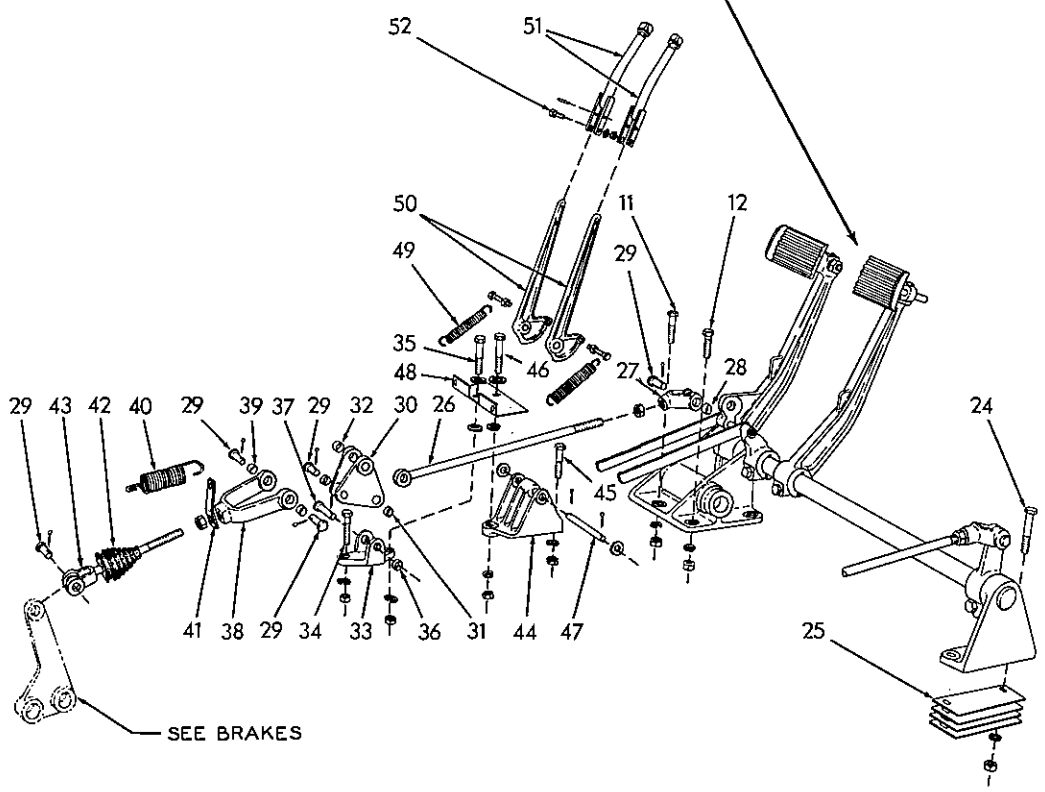
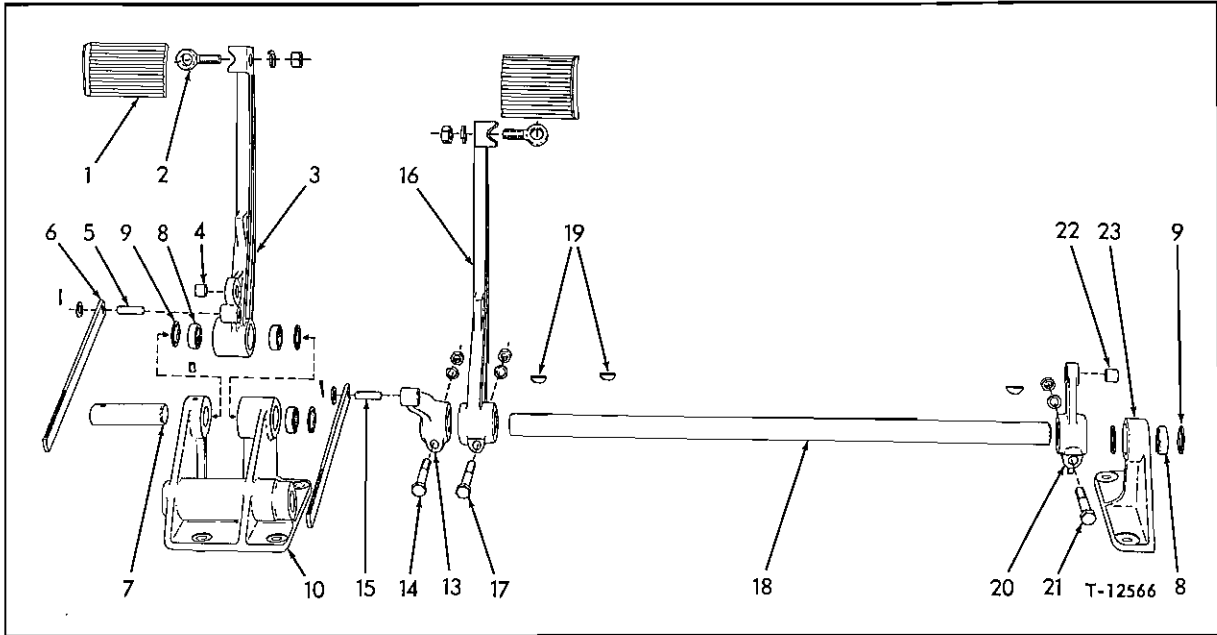
* 70623214 VALVE ASSEMBLY
 ** 70638600 VALVE ASSEMBLY
 *** 70644136 VALVE ASSEMBLY

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
<u>NOTE:</u> All quantities indicated are for one (1) Valve Assembly only					
1	70623194	1	1	1	SPOOL, valve
2	70623195	1	1	1	BOOT, valve spool
3	70921913	1	1	1	CLAMP, hose, 1-13/16" to 2-3/4" diam.
4	70921912	1	1	1	CLAMP, hose, 1-1/16" to 2" diam.
5	70623197	1	1	1	SEAL, outer
6	70623489	1	1	1	WASHER, back-up, inner seal (vellumoid)
7	70623198	1	1	1	SEAL, inner
8	70623202	1	1	1	HOUSING
	70908944	2	2	2	PLUG, pipe, hex-socket, 1/2"NPT
9	70623201	1	1	1	PISTON ASSEMBLY (Includes fulcrum pin)
10	70623206	2	2	2	RING, snap, actuating rod
11	70623203	1	1	1	RETAINER, actuating rod spring
12	70623204	1	1	1	SPRING, actuating rod
13	70623207	1	1	1	ROD, ACTUATING
14	70623196	1	1	1	GASKET, actuating rod retainer
15	70623205	1	1	1	RETAINER, actuating rod
16	70614478	4	4	4	CAPSCREW, 1/2"NF x 1-3/8"
	70904208	4	4	4	LOCKWASHER, 1/2"
17	70623211	1	1	1	SEAT, relief valve

(Continued)

BRAKE VALVE PARTS (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
18	70628019	1	1	1	VALVE, relief
19	70623210	1	1	-	SPRING, relief valve
	70068911	-	-	1	SPRING, relief valve
	70911982	4	1	1	WASHER, plain
20	70623209	1	-	-	CAP, relief valve
21	70638563	-	1	1	CAP, relief valve
22	70638561	-	1	1	CAPSCREW, pressure adjustment
	70911048	-	1	1	NUT, jam, 3/8"NF
23	70641148	-	1	1	GASKET, cap
24	70638562	-	1	1	CAP, pressure adjustment screw



— BRAKE CONTROL (First type) —

T-30913

BRAKE CONTROL

USAGE: Tractors prior to serial No. 5154, excluding No. 5104

ITEM	PART NO.	QTY.	DESCRIPTION
1	70050434	2	PAD, pedal lever (Not for Model HD16GC)(Used prior to tractor #4777)
	70099965	2	PAD, pedal lever (Not for Model HD16GC)(Effective with tractor #4777)
	70090395	1	PAD, pedal lever, left (Model HD16GC only)
	70090396	1	PAD, pedal lever, right (Model HD16GC only)
2	70050433	2	BOLT, eye, pedal lever pad
	70904209	2	LOCKWASHER, 5/8"
	70911044	2	NUT, 5/8"NF
3	70083827	1	LEVER ASSEMBLY, left pedal (Includes items 4 and 5)
4	70052669	1	BUSHING, left pedal lever
5	70059081	1	PIN, left pedal lever
	70910244	1	WASHER, plain, SAE std., 1/2"
	70900805	1	PIN, cotter, 1/8" x 3/4"
6	70083750	2	BAR, parking brake lock
7	70065692	1	SHAFT, left pedal lever
8	70053244	4	BEARING, needle, pedal lever shaft
9	70053243	5	SEAL, dust, pedal lever shaft
10	70083745	1	BRACKET, left pedal shaft
	70903093	1	SETSCREW, slotted-hd., cup-pt., 3/8"NC x 5/8"
11	70035068	2	CAPSCREW, 1/2"NF x 2-1/4"
12	70035073	2	CAPSCREW, 12/"NF x 1-3/4"
	70904208	4	LOCKWASHER 1/2"
	70911043	4	NUT, 1/2"NF
13	70065696	1	LEVER ASSEMBLY, right pedal shaft, inner (Includes item 15)
14	70035278	1	CAPSCREW, 1/2"NF x 2-3/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
15	70059081	1	PIN, right pedal shaft lever
	70910244	1	WASHER, plain, SAE std., 1/2"
	70900805	1	PIN, cotter, 1/8" x 3/4"
16	70083805	1	LEVER, right pedal
17	70035278	1	CAPSCREW, 1/2"NF x 2-3/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
18	70065691	1	SHAFT, right pedal lever
19	70036997	3	KEY, #13 woodruff, hardened, 3/16" x 1"
20	70067649	1	LEVER ASSEMBLY, right pedal shaft, outer (Includes item 22)
21	70035278	1	CAPSCREW, 1/2"NF x 2-3/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF

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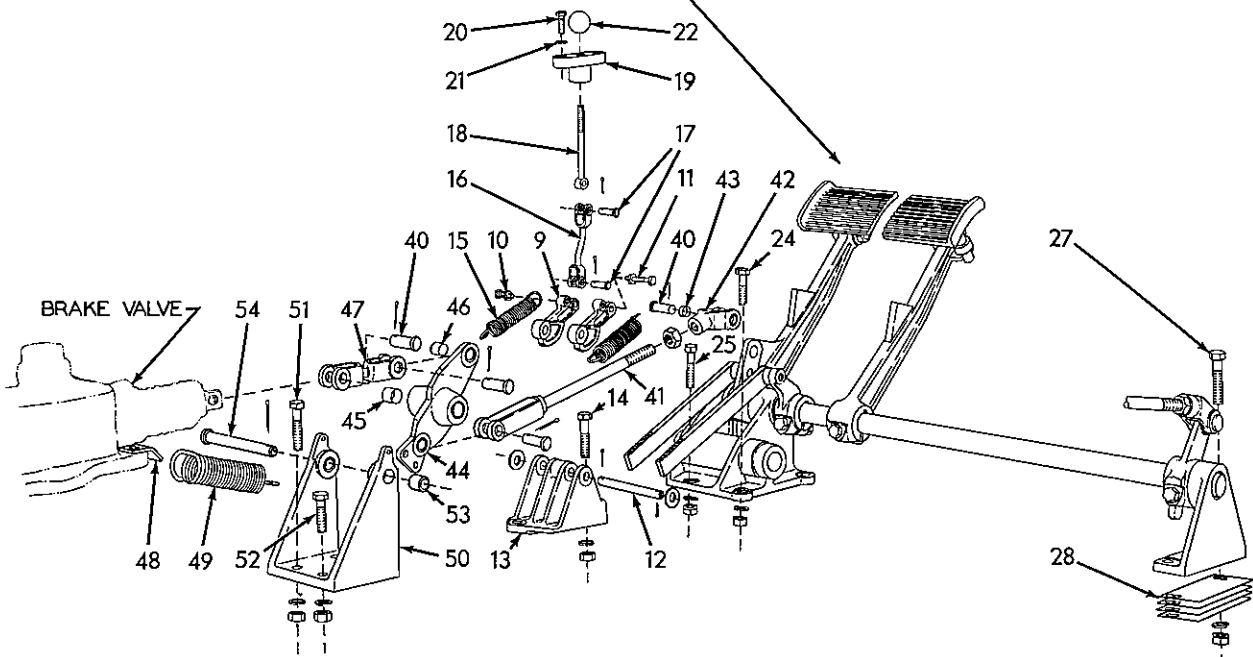
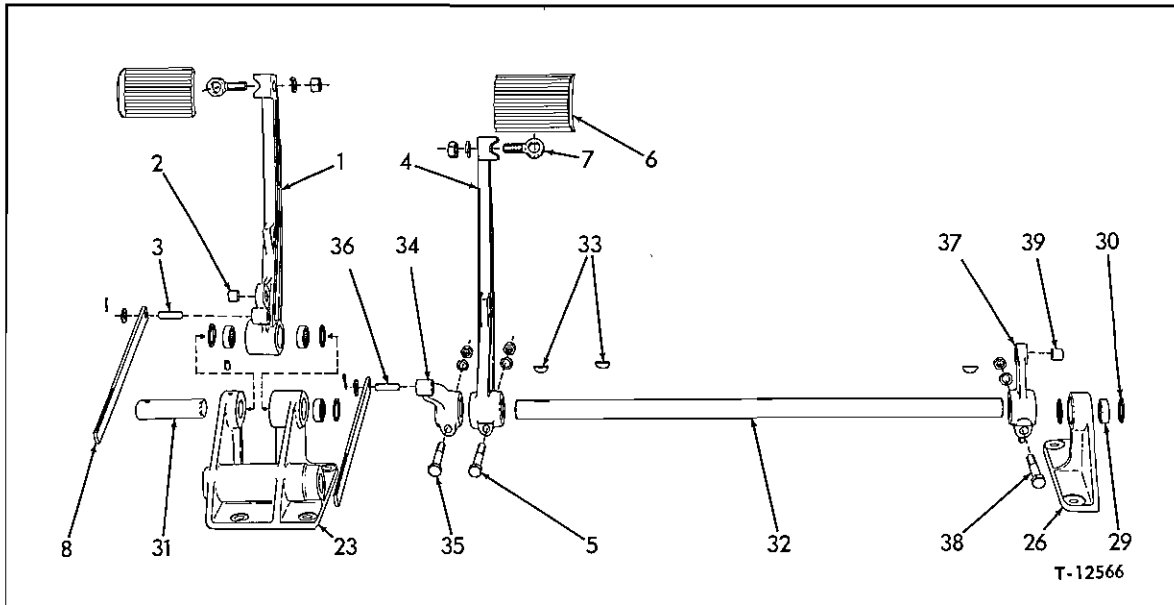
BRAKE CONTROL (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
22	70052669	1	BUSHING, right pedal shaft lever
23	70033751	1	BRACKET, right pedal shaft
24	70035892	2	CAPSCREW, 1/2"NF x 2-1/2"
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
25	70081341	4	SHIM, right pedal shaft bracket (Use as req'd)
26	70081437	2	ROD, front (16-1/2" long)(Used prior to tractor #4560)
	70099306	2	ROD, front (15-5/8" long)(Effective with tractor #4560)
	70911044	2	NUT, 5/8"NF
27	70066399	2	YOKE ASSY., front rod (Includes item 28)
28	70069142	4	BUSHING, front rod yoke
29	70052671	10	PIN, brake rod
	70900806	10	PIN, cotter, 1/8" x 1"
30	70066395	2	BELLCRANK ASSY., brake rod (Includes items 31 and 32)
31	70096142	8	BUSHING, brake rod bellcrank (5/16" long)
32	70052669	4	BUSHING, brake rod bellcrank (5/8" long)
33	70069355	2	BRACKET ASSY., bellcrank pivot (Includes item 36)
34	70035068	2	CAPSCREW, 1/2"NF x 2-1/4"
35	70035278	1	CAPSCREW, 1/2"NF x 2-3/4" (left side)
	70035892	1	CAPSCREW, 1/2"NF x 2-1/2" (right side)
	70064531	1	WASHER, plain
	70910244	1	WASHER, plain, SAE std., 1/2" (for spacing)
	70904208	4	LOCKWASHER, 1/2"
	70911043	4	NUT, 1/2"NF
36	70096142	4	BUSHING, bellcrank pivot bracket
37	70066418	2	PIN, bellcrank pivot bracket
	70900806	2	PIN, cotter, 1/8" x 1"
38	70066397	2	YOKE ASSY., rear rod (Includes item 39)
39	70052669	4	BUSHING, rear rod yoke
40	70654084	2	SPRING, brake retracting
41	70082834	2	CLIP, brake retracting spring
42	70078908	2	BOOT, brake rod (rubber)
43	70067637	2	ROD, rear (8" long)(Used prior to tractor #4560)
	70099305	2	ROD, rear (9-3/4" long)(Effective with tractor #4560)
	70911044	2	NUT, 5/8"NF

(Continued)

BRAKE CONTROL (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
44	70059070	1	BRACKET, parking brake lock
45	70035068	1	CAPSCREW, 1/2"NF x 2-1/4"
46	70035278	1	CAPSCREW, 1/2"NF x 2-3/4"
	70064531	1	WASHER, plain
	70910244	1	WASHER, plain, SAE std., 1/2" (for spacing)
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
47	70059077	1	PIN, parking brake lock
	70910244	2	WASHER, plain, SAE std., 1/2"
	70900805	2	PIN, cotter, 1/8" x 3/4"
48	70066089	1	BRACKET, brake lock retracting spring
49	70072438	2	SPRING, retracting, parking brake lock
	70905666	2	CAPSCREW, 5/16"NC x 2-1/2"
	70906652	2	NUT, jam, 5/16"NC
50	70059071	2	LOCK, parking brake (Not used on Model HD16GC tractors after #2995)
	70095108	2	LOCK, parking brake (For Model HD16GC tractors #2995 and up)
51	70095141	2	EXTENSION, parking brake lock (Model HD16GC tractors #2995 and up)
	70901751	2	CAP, pipe, 1/4"NPT
	70916001	2	PIN, roll, 3/16" x 1"
52	70054304	2	CAPSCREW, 1/4"NC x 1-1/4"
	70904204	2	LOCKWASHER, 1/4"
	70911024	2	NUT, 1/4"NC



BRAKE CONTROL (Second type)

T-33463

BRAKE CONTROL

USAGE: Model HD16A, AC, D, DC tractors serial No. 5154 thru No. 5650, including No. 5104;
also all Model HD16FC, GC tractors serial No. 5154 and up

* All models except HD16GC
** Model HD16GC

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70623772	1	-	LEVER ASSEMBLY, pedal, left (Includes items 2 and 3)
	70624104	-	1	LEVER ASSEMBLY, pedal, left (Includes items 2 and 3)
2	70052669	1	1	BUSHING, left pedal lever
3	70623765	1	1	PIN, left pedal lever
4	70623756	1	-	LEVER, pedal, right
	70624101	-	1	LEVER, pedal, right
5	70035278	1	1	CAPSCREW, 1/2"NF x 2-3/4"
	70904208	1	1	LOCKWASHER, 1/2"
	70911043	1	1	NUT, 1/2"NF
6	70623151	2	2	PAD, pedal lever
7	70050433	2	2	BOLT, eye, pedal lever pad
	70904209	2	2	LOCKWASHER, 5/8"
	70911044	2	2	NUT, 5/8"NF
8	70623760	2	2	BAR, parking brake lock
	70910244	2	2	WASHER, plain, SAE std., 1/2"
	70900805	2	2	PIN, cotter, 1/8" x 3/4"
9	70623764	2	2	LOCK, parking brake
10	70037450	1	1	CAPSCREW, 5/16"NC x 1-1/4" (left side)
11	70068320	1	1	CAPSCREW, 5/16"NC x 2" (right side)
	70906652	2	2	NUT, jam, 5/16"NC
12	70059077	1	1	PIN, parking brake lock
	70910244	2	2	WASHER, plain, SAE std., 1/2"
	70900805	2	2	PIN, cotter, 1/8" x 3/4"
13	70059070	1	1	BRACKET, parking brake lock
14	70035068	2	2	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	2	2	LOCKWASHER, 1/2"
	70911043	2	2	NUT, 1/2"NF
15	70043881	2	2	SPRING, parking brake lock
16	70623761	2	-	ROD, parking brake lock, lower
	70624102	-	2	ROD, parking brake lock, lower
17	70078810	4	4	PIN, lower lock rod
	70900801	4	4	PIN, cotter, 3/32" x 3/4"
18	70623762	2	2	ROD, parking brake lock, upper
19	70623129	2	2	GUIDE, parking brake lock
20	70036034	4	4	CAPSCREW, 3/8"NF x 1"
	70904206	4	4	LOCKWASHER, 3/8"
21	70044973	4	4	WASHER, plain

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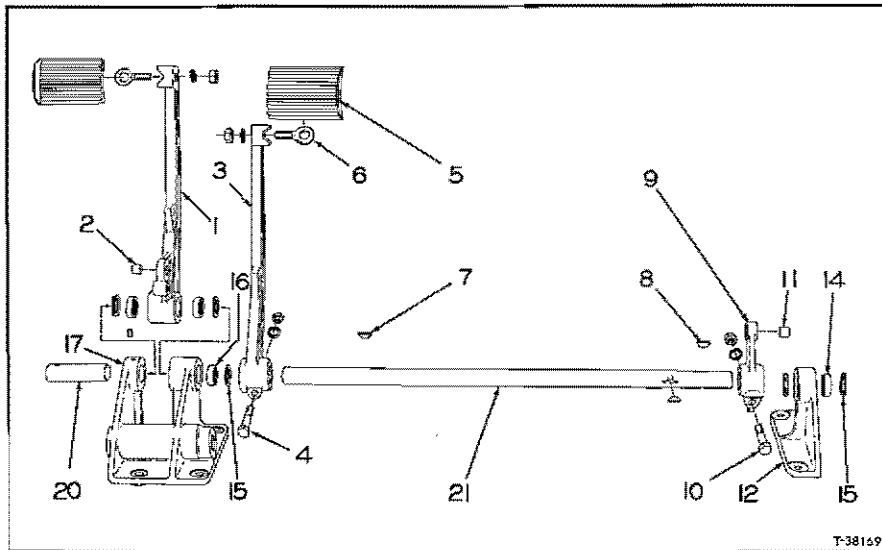
BRAKE CONTROL (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
22	70091855	2	2	KNOB, parking brake lock
23	70083745	1	1	BRACKET, pedal shaft, left
24	70035073	2	2	CAPSCREW, 1/2"NF x 1-3/4"
25	70035068	2	2	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	4	4	LOCKWASHER, 1/2"
	70911043	4	4	NUT, 1/2"NF
26	70083751	1	1	BRACKET, pedal shaft, right
27	70035892	2	2	CAPSCREW, 1/2"NF x 2-1/2"
	70904208	2	2	LOCKWASHER, 1/2"
	70911043	2	2	NUT, 1/2"NF
28	70081341	4	4	SHIM, right pedal shaft bracket (Use as req'd)
29	70053244	4	4	BEARING, needle, pedal shafts
30	70053243	5	5	SEAL, dust, pedal shafts
31	70065692	1	1	SHAFT, left pedal
	70903093	1	1	SETSCREW, slotted-hd., cup-pt., 3/8"NC x 5/8"
32	70065691	1	1	SHAFT, right pedal
33	70036997	3	3	KEY, #13 woodruff, 3/16" x 1"
34	70623766	1	1	LEVER ASSY., right pedal shaft, left side (In- cludes item 36)
35	70035278	1	1	CAPSCREW, 1/2"NF x 2-3/4"
	70904208	1	1	LOCKWASHER, 1/2"
	70911043	1	1	NUT, 1/2"NF
36	70623765	1	1	PIN, pedal shaft lever
37	70067649	1	1	LEVER ASSY., right pedal shaft, right side (In- cludes item 39)
38	70035278	1	1	CAPSCREW, 1/2"NF x 2-3/4"
	70904208	1	1	LOCKWASHER, 1/2"
	70911043	1	1	NUT, 1/2"NF
39	70052669	1	1	BUSHING, pedal shaft lever
40	70052671	8	8	PIN, brake rods
	70900806	8	8	PIN, cotter, 1/8" x 1"
41	70623757	2	-	ROD, front
	70624103	-	2	ROD, front
	70911044	2	2	NUT, 5/8"NF
42	70066399	2	2	YOKE ASSY., front rod (Includes item 43)
43	70096142	4	4	BUSHING, front rod yoke
44	70623776	2	2	LEVER ASSY., rocker (Includes items 45 and 46)
45	70623164	4	4	BUSHING, bellcrank, center

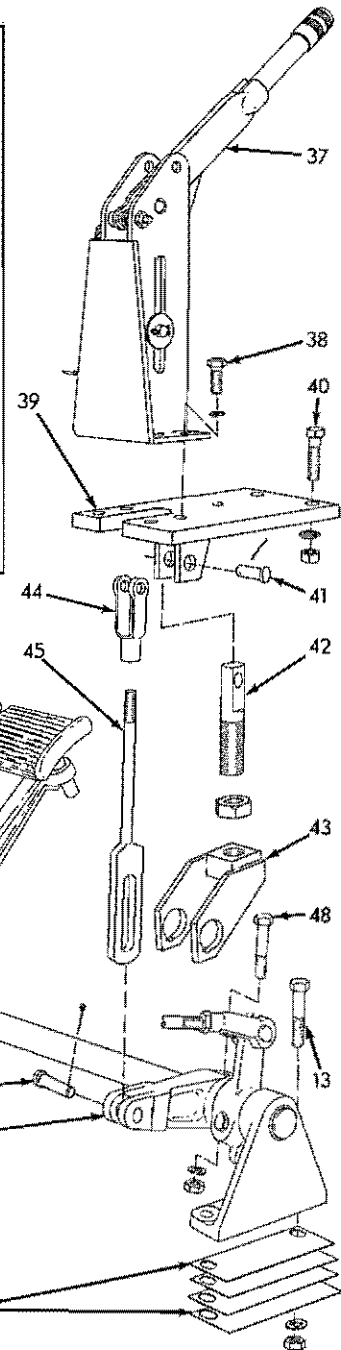
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BRAKE CONTROL (Continued)

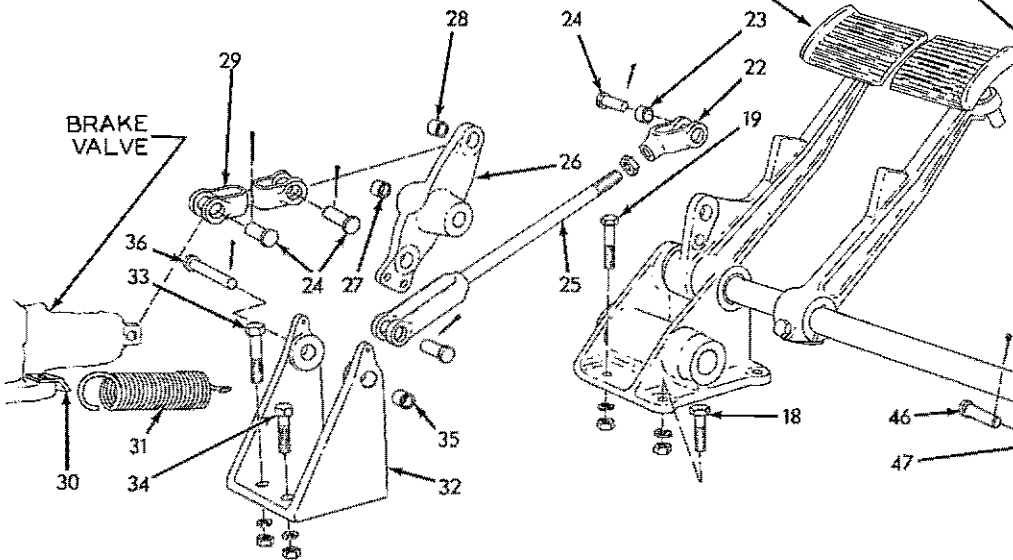
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
46	70052669	4	4	BUSHING, bellcrank, end
47	70623758	2	2	ROD, rear
48	70623763	2	2	CLIP, attaching, rod spring
49	70654084	2	2	SPRING, retracting
50	70623769	2	2	BRACKET ASSY., rocker lever (Includes item 53)
51	70035068	4	4	CAPSCREW, 1/2" NF x 2-1/4"
52	70035073	4	4	CAPSCREW, 1/2" NF x 1-3/4"
	70904208	8	8	LOCKWASHER, 1/2"
	70911043	8	8	NUT, 1/2" NF
53	70623164	4	4	BUSHING, rocker lever bracket
54	70623759	2	2	PIN, rocker lever bracket
54	70910302	2	2	PIN, cotter, 5/32" x 1-1/4"



T-38129



BRAKE VALVE



BRAKE CONTROL (Third type)

T-38123

BRAKE CONTROL

USAGE: Model HD16A, AC, D, DC tractors serial No. 5651 and up

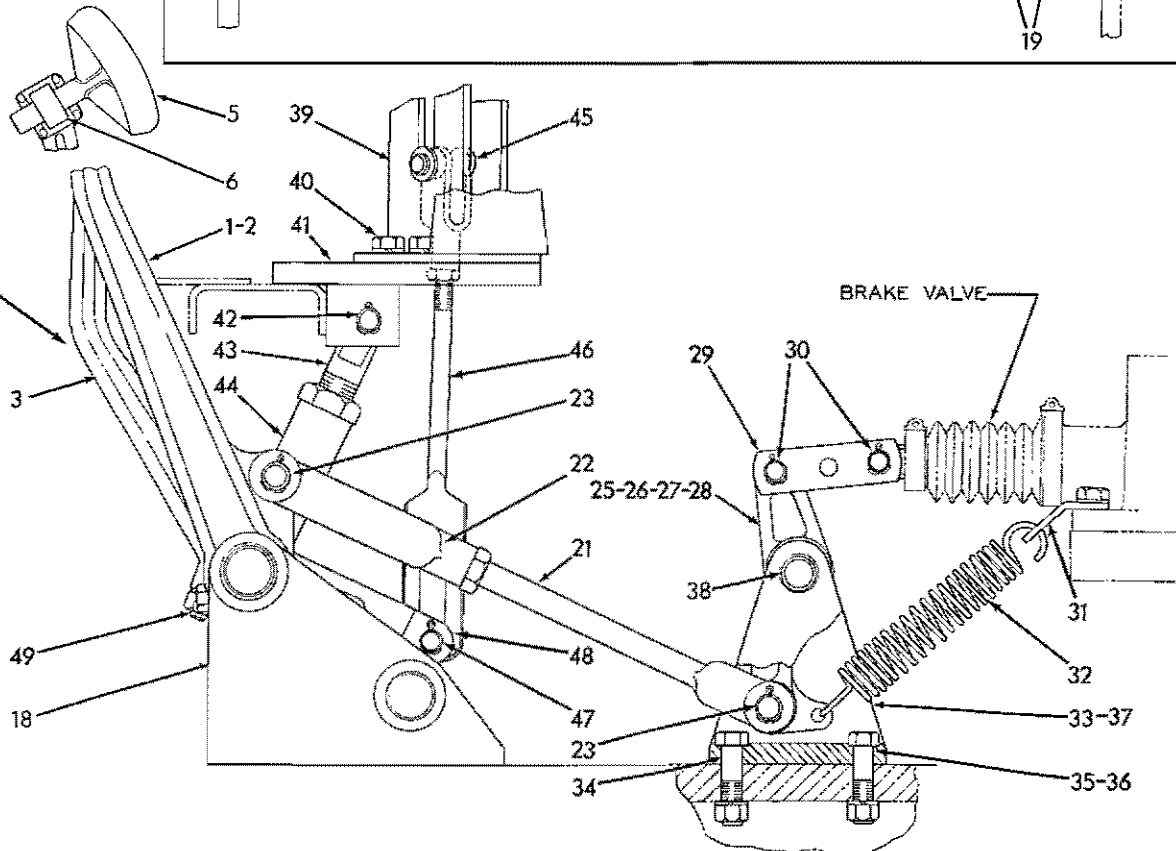
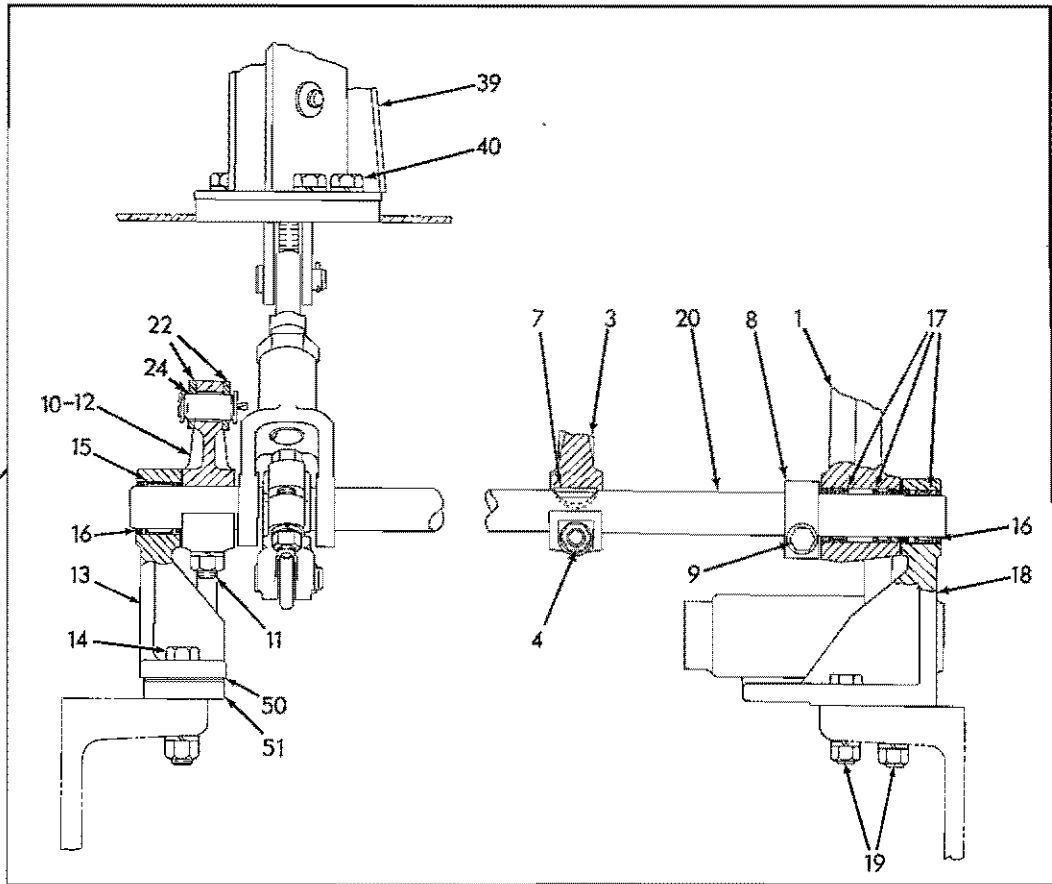
ITEM	PART NO.	QTY.	DESCRIPTION
1	70623772	1	LEVER ASSEMBLY, pedal, left (Includes item 2)
2	70052669	1	BUSHING, left pedal lever
3	70623756	1	LEVER, pedal, right
4	70035278	1	CAPSCREW, 1/2"NF x 2-3/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
5	70623151	2	PAD, pedal lever
6	70050433	2	BOLT, eye, pedal lever pad
	70904209	2	LOCKWASHER, 5/8"
	70911044	2	NUT, 5/8"NF
7	70036997	1	KEY, right pedal (3/16" x 1")
8	70631883	2	KEY, right pedal shaft (1/4" x 1-1/4")
9	70632353	1	LEVER ASSEMBLY, right pedal shaft (Includes item 11)
10	70035278	1	CAPSCREW, 1/2"NF x 2-3/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
11	70052669	1	BUSHING, pedal shaft lever
12	70083751	1	BRACKET, pedal shaft, right
13	70035892	2	CAPSCREW, 1/2"NF x 2-1/2"
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
14	70052642	1	BEARING, needle, right pedal shaft (3/4" wide)
15	70053243	5	SEAL, dust, pedal shafts
16	70053244	3	BEARING, needle, pedal shafts (1/2" wide)
17	70083745	1	BRACKET, pedal shaft, left
18	70035073	2	CAPSCREW, 1/2"NF x 1-3/4"
19	70035068	2	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	4	LOCKWASHER, 1/2"
	70911043	4	NUT, 1/2"NF
20	70065692	1	SHAFT, left pedal
	70903093	1	SETSCREW, slotted-hd., cup-pt., 3/8"NC x 5/8"
21	70632365	1	SHAFT, right pedal
22	70066399	2	YOKE ASSEMBLY, front rod (Includes item 23)
23	70096142	4	BUSHING, front rod yoke
24	70052671	8	PIN, brake rods
	70900806	8	PIN, cotter, 1/8" x 1"
25	70623757	2	ROD, front
	70911044	2	NUT, 5/8"NF
26	70623776	2	LEVER ASSEMBLY, rocker (Includes item 27 and 28)

(Continued)

BRAKE CONTROL (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
27	70623164	4	BUSHING, bellcrank, center
28	70052669	4	BUSHING, bellcrank, end
29	70623758	2	ROD, rear
30	70623763	2	CLIP, attaching, rod spring
31	70654084	2	SPRING, retracting
32	70623769	2	BRACKET ASSEMBLY, rocker lever (Includes item 35)
33	70035068	4	CAPSCREW, 1/2"NF x 2-1/4"
34	70035073	4	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	8	LOCKWASHER, 1/2"
	70911043	8	NUT, 1/2"NF
35	70623164	4	BUSHING, rocker lever bracket
36	70623759	2	PIN, rocker lever bracket
	70910302	2	PIN, cotter, 5/32" x 1-1/4"
37	70631981	1	LEVER ASSEMBLY, operating, parking brake (See page 409 for parts)
38	70070467	4	CAPSCREW, 1/2"NF x 1"
	70904208	4	LOCKWASHER, 1/2"
39	70632373	1	BRACKET, mounting, parking brake lever
40	70035073	2	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
41	70052671	1	PIN, bracing yoke eye
	70900806	1	PIN, cotter, 1/8" x 1"
42	70638338	1	EYE, shaft bracing yoke
	70911051	1	NUT, jam, 1"NF
43	70632364	1	YOKE, shaft bracing
44	70068389	1	YOKE, parking brake rod
45	70631893	1	ROD, connecting, parking brake lever
46	70052671	1	PIN, parking brake lever
	70900806	1	PIN, cotter, 1/8" x 1"
47	70632367	1	LEVER, parking brake
48	70035278	1	CAPSCREW, 1/2"NF x 2-3/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
49	70081341	4	SHIM, right pedal shaft bracket (Use as req'd)





BRAKE CONTROL (Fourth type)

T-41838

BRAKE CONTROL

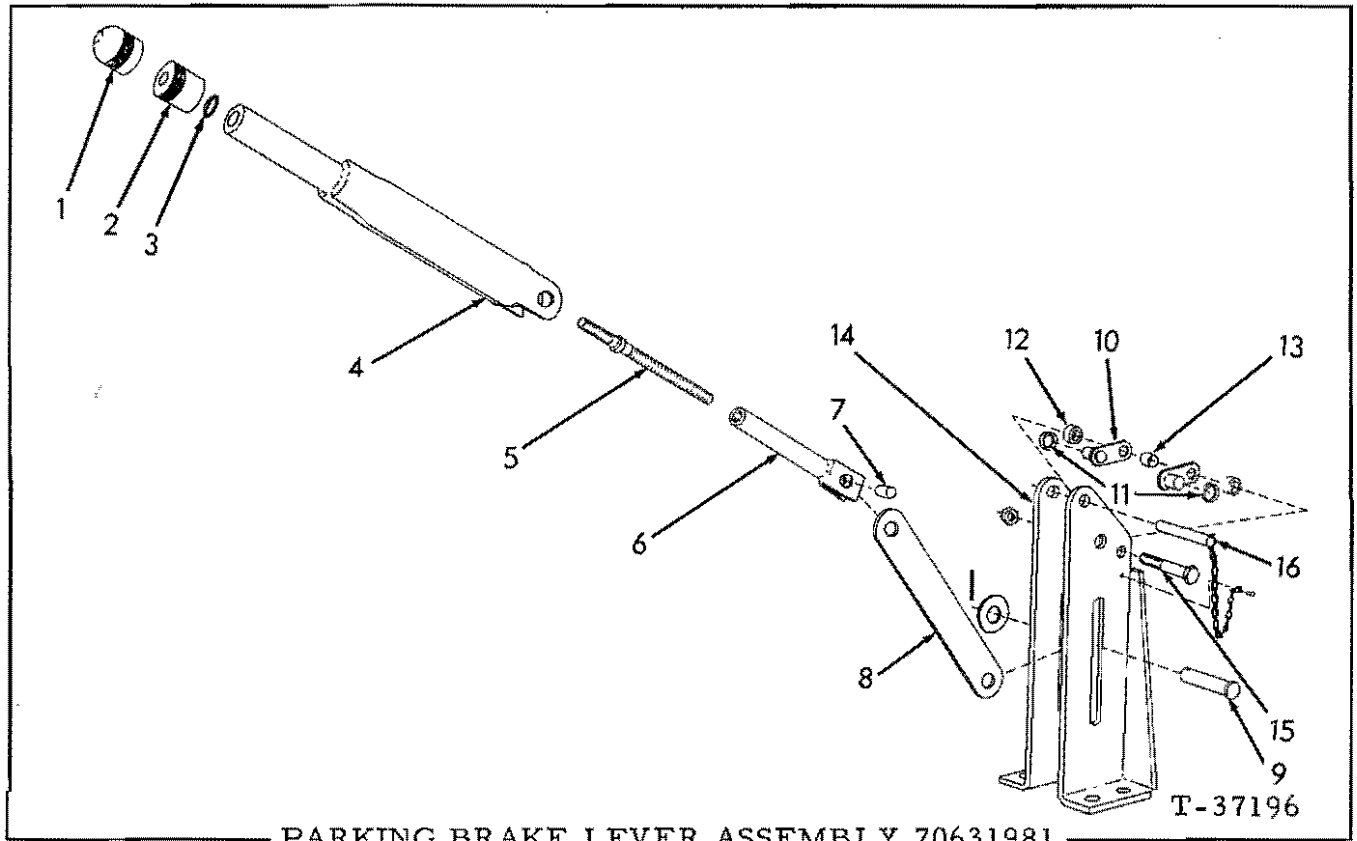
USAGE: For tractors serial No. 5154 and up equipped with field changeover kits for increased mechanical advantage

ITEM	PART NO.	QTY.	DESCRIPTION
1	70643053	1	LEVER ASSEMBLY, pedal, left (Includes item 2)
2	70623164	1	BUSHING, left pedal lever
3	70643032	1	LEVER, pedal, right
4	70035278	1	CAPSCREW, 1/2"NF x 2-3/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
5	70623151	2	PAD, pedal lever
6	70050433	2	BOLT, eye, pedal lever pad
	70904209	2	LOCKWASHER, 5/8"
	70911044	2	NUT, 5/8"NF
7	70631883	3	KEY, pedal lever shaft
8	70643760	1	COLLAR, retaining, left pedal lever
9	70035067	1	CAPSCREW, 1/2"NF x 2"
	70904208	1	LOCKWASHER, 1/2"
10	70643019	1	LEVER ASSEMBLY, pedal shaft, right end (Includes item 12)
11	70042430	1	CAPSCREW, 1/2"NF x 3-1/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
12	70623164	1	BUSHING, shaft lever
13	70629253	1	BRACKET, pedal shaft, right
14	70070403	2	CAPSCREW, 1/2"NF x 3"
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
15	70052642	1	BEARING, needle, pedal shaft (3/4" wide)
16	70053243	6	SEAL, dust, pedal shaft
17	70053244	3	BEARING, needle, pedal shaft (1/2" wide)
18	70629536	1	BRACKET, pedal shaft, left
19	70035068	3	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	3	LOCKWASHER, 1/2"
	70911043	3	NUT, 1/2"NF
20	70629548	1	SHAFT, pedal
21	70643007	2	ROD, front
	70910847	2	NUT, jam, 3/4"NF
22	70628535	2	YOKE, front rod
23	70623139	3	PIN, front rod
	70910302	3	PIN, cotter, 5/32" x 1-1/4"
24	70637729	1	PIN, front rod yoke, right side
	70637730	2	WASHER, plain
	70904003	1	PIN, cotter, 1/8" x 2-1/4"

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BRAKE CONTROL (Continued)

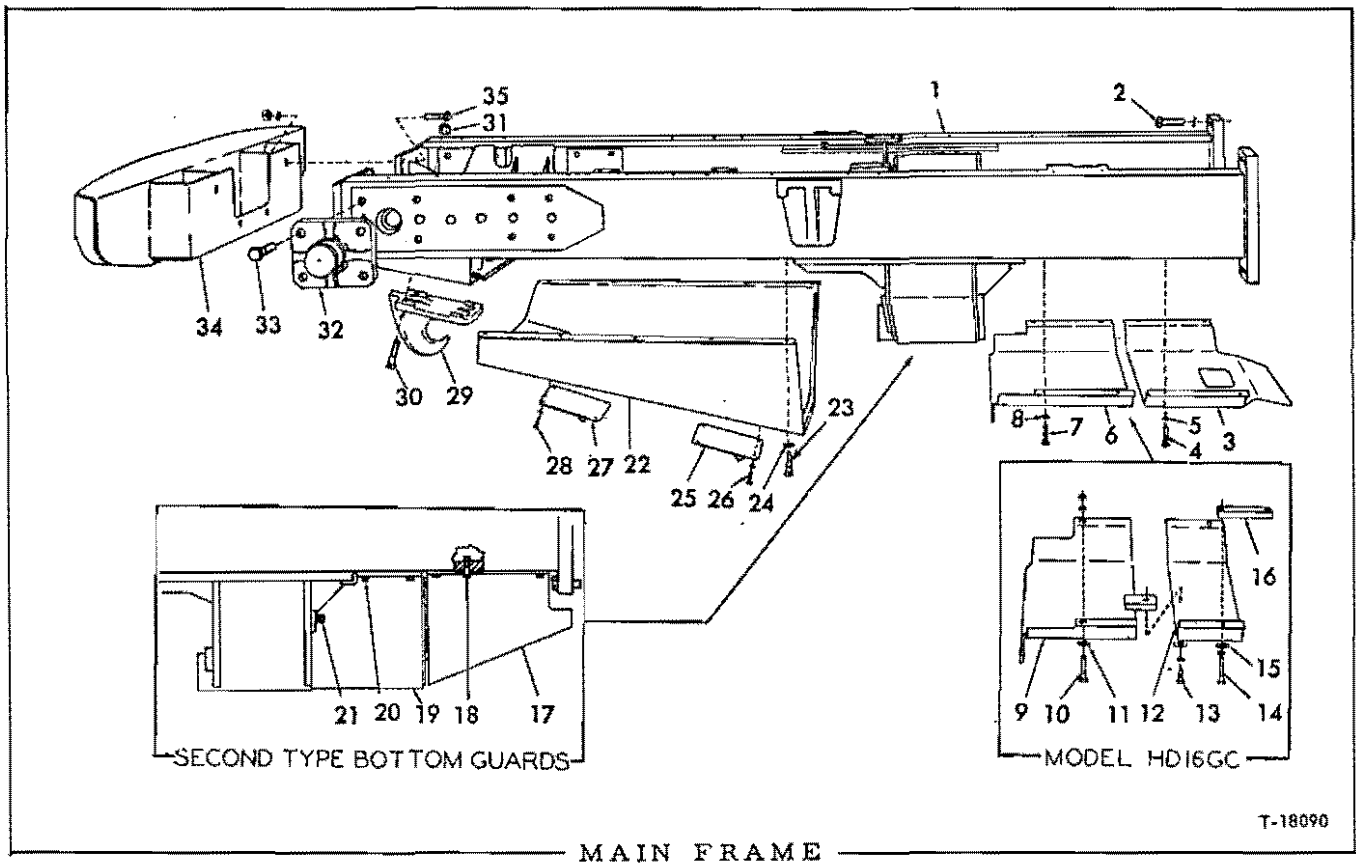
ITEM	PART NO.	QTY.	DESCRIPTION
25	70643024	2	LEVER ASSEMBLY, rocker (Includes items 26 thru 28)
26	70052669	2	BUSHING, lever, upper end (3/4" O.D.)
27	70631882	4	BUSHING, lever, center (1-1/8" O.D.)
28	70623164	2	BUSHING, lever, lower end (7/8" O.D.)
29	70643274	2	YOKE, rear
30	70052671	4	PIN, rear yoke
	70900806	4	PIN, cotter, 1/8" x 1"
31	70629543	2	CLIP, attaching, rod spring
32	70654084	2	SPRING, retracting
33	70644463	2	BRACKET ASSEMBLY, rocker lever (Includes item 37)
34	70035068	5	CAPSCREW, 1/2"NF x 2-1/4"
35	70035892	1	CAPSCREW, 1/2"NF x 2-1/2"
36	70058614	1	WASHER, plain
	70904208	6	LOCKWASHER, 1/2"
	70911043	6	NUT, 1/2"NF
			} Right side only
37	70631882	4	BUSHING, rocker lever bracket
38	70639459	2	PIN, rocker lever bracket
	70910320	4	PIN, cotter, 5/32" x 1-1/2"
39	70631981	1	LEVER ASSEMBLY, operating, parking brake (See page 409 for parts)
40	70070467	4	CAPSCREW, 1/2" x 1"
	70904208	4	LOCKWASHER, 1/2"
41	70644582	1	PLATE, mounting, parking brake lever (Requires welding to install)
42	70052671	1	PIN, bracing yoke eye
	70900806	1	PIN, cotter, 1/8" x 1"
43	70638338	1	EYE, shaft bracing yoke
	70911051	1	NUT, jam, 1"NF
44	70644577	1	YOKE, shaft bracing
45	70068389	1	YOKE, parking brake rod
46	70631893	1	ROD, connecting, parking brake lever
	70913830	1	NUT, jam, 1/2"NF
47	70052671	1	PIN, parking brake lever
	70900806	1	PIN, cotter, 1/8" x 1"
48	70632451	1	LEVER, parking brake
49	70035278	1	CAPSCREW, 1/2"NF x 2-3/4"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
50	70629515	3	SHIM, pedal shaft bracket, right (Use as required)
51	70629616	1	PLATE, bracket spacing



PARKING BRAKE LEVER ASSEMBLY 70631981

USAGE: See page 403 and 407

ITEM	PART NO.	QTY.	DESCRIPTION
1	70637801	1	CAP, adjusting stud
2	70637802	1	NUT, cap locking
3	70623424	1	O-RING, adjusting stud knob
4	70637803	1	LEVER, operating
5	70637818	1	STUD, lever adjusting
6	70637804	1	TUBE, adjusting stud
7	70637819	1	PIN, connecting link
8	70637805	1	LINK, connecting
9	70637811	1	PIN, clevis
	70900818	1	WASHER, plain, U.S. std., 1/2"
	70900806	1	PIN, cotter, 1/8" x 1"
10	70637808	2	BRACKET, pivot
11	70637806	2	SPACER, pivot bracket (3/4" O. D.)
12	70637809	2	SPACER, pivot bracket (5/8" O. D.)
13	70637810	1	SPACER, pivot bracket (1/2" O. D.)
14	-----	1	BRACKET, supporting (Not serviced separately)
15	70637817	1	BOLT, pivot bracket (drilled-hd.)(Early units)
	70099575	1	CAPSCREW, pivot bracket (Late units)
	70919219	1	NUT, Sealastic stop, thin, 3/8"NF
16	70637820	1	PIN, lever locking (Includes chain)
	70913533	1	SCREW, thread-cutting, #4 x 1/4" (Early units)
	70628406	1	PIN, drive (Late units)



MAIN FRAME

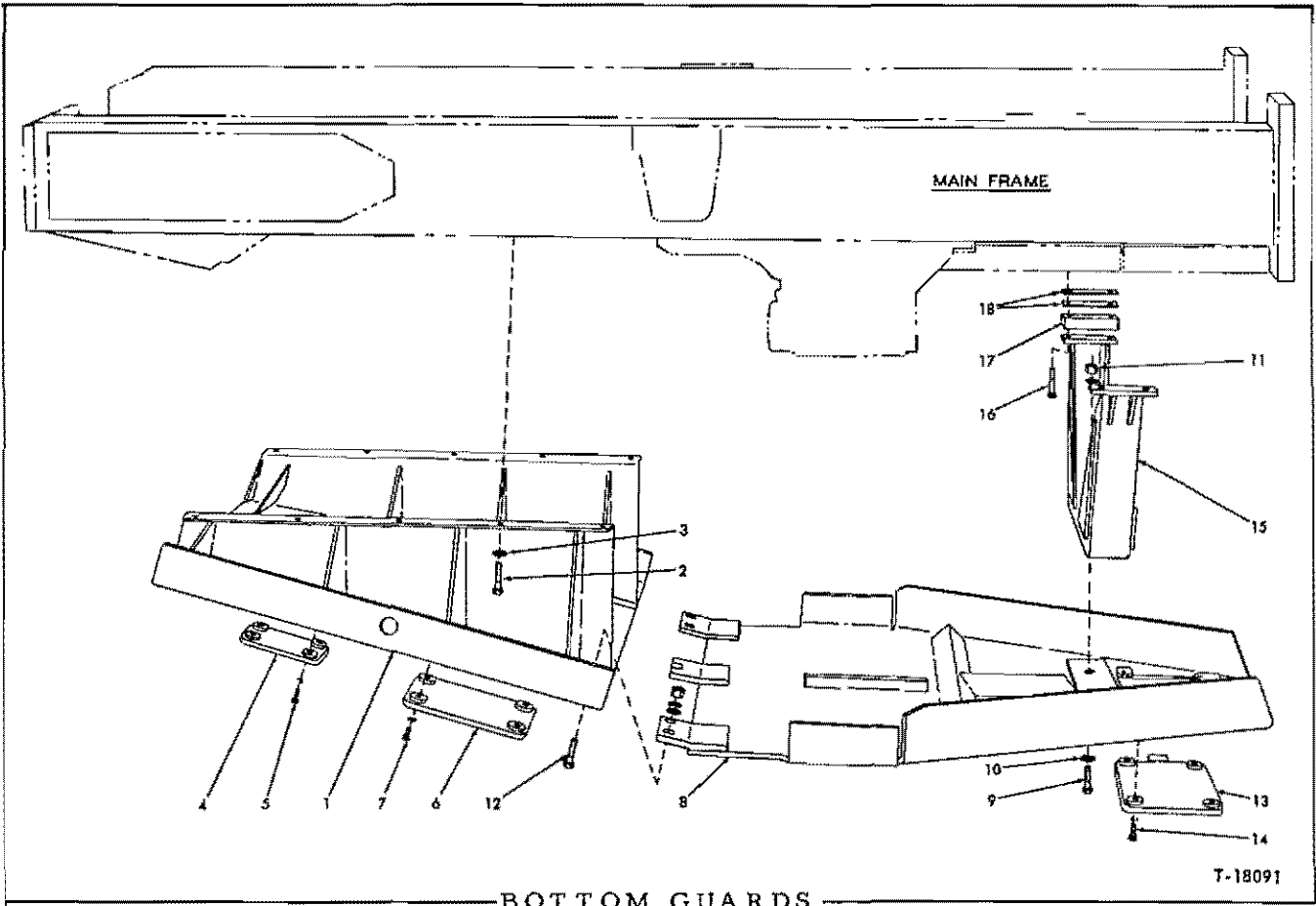
* Models HD16A, AC, D, DC
 ** Model HD16FC
 *** Model HD16GC

ITEM	PART NO.	QUANTITY			DESCRIPTION	
		*	**	***		
1	70084600	1	-	-	FRAME, main	} If for tractors prior to #2508 excluding #2506, also order 4 CAPSCREWS 70013465 and 4 NUTS 70012767. Ream holes in engine rear mounting brackets for larger capscrews.
	70087838	-	1	1	FRAME, main	
2	70070272	12	12	12	CAPSCREW, 1"NF x 3"	
	70910916	12	12	12	LOCKWASHER, 1"	
3	70623340	1	1	1	SHIELD, bottom, rear section	} Used prior to tractor #5154, excluding #5104
4	70035068	4	4	4	CAPSCREW, 1/2"NF x 2-1/4"	
5	70064531	4	4	4	WASHER, plain	
	70904208	4	4	4	LOCKWASHER, 1/2"	
	70911043	4	4	2	NUT, 1/2"NF	
6	70064764	1	1	-	SHIELD, bottom, center section	
7	70035068	4	4	-	CAPSCREW, 1/2"NF x 2-1/4"	
8	70064531	4	4	-	WASHER, plain	
	70904208	4	4	-	LOCKWASHER, 1/2"	
	70911043	4	4	-	NUT, 1/2"NF	
9	70079659	-	-	1	SHIELD, bottom, center section, front	
10	70035068	-	-	2	CAPSCREW, 1/2"NF x 2-1/4"	
11	70064531	-	-	2	WASHER, plain	
	70904208	-	-	2	LOCKWASHER, 1/2"	
	70911043	-	-	2	NUT, 1/2"NF	
12	70079658	-	-	1	SHIELD, bottom, center section, rear	
13	70070469	-	-	1	CAPSCREW, 1/2"NF x 1-1/4"	
14	70035068	-	-	2	CAPSCREW, 1/2"NF x 2-1/4"	
15	70064531	-	-	3	WASHER, plain	
	70904208	-	-	3	LOCKWASHER, 1/2"	
16	70079661	-	-	2	BLOCK, tapped, shield attaching capscrews	
17	70623893	1	1	1	GUARD, bottom, rear section	} Effective with tractor #5154, including #5104
18	70035068	6	6	6	CAPSCREW, 1/2"NF x 2-1/4"	
	70064531	6	6	6	WASHER, plain	
	70904208	6	6	6	LOCKWASHER, 1/2"	
	70911043	6	6	6	NUT, 1/2"NF	
19	70623897	1	1	1	GUARD, bottom, center section	
20	70035892	4	4	4	CAPSCREW, 1/2"NF x 2-1/2"	
21	70035018	2	2	2	CAPSCREW, 1/2"NF x 1-1/2"	
	70064531	6	6	6	WASHER, plain	
	70904208	6	6	6	LOCKWASHER, 1/2"	
	70911043	4	4	4	NUT, 1/2"NF	
22	70091631	1	1	1	GUARD ASSEMBLY, crankcase (Includes items 25 thru 28) (See page 415 for Special Guard)	
23	70023618	10	10	10	CAPSCREW, 5/8"NF x 2-1/2"	
24	70064810	10	10	10	WASHER, plain	
	70904209	10	10	10	LOCKWASHER, 5/8"	
	70911044	10	10	10	NUT, 5/8"NF	

(Continued)

MAIN FRAME (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
25	70082719	1	1	1	COVER, crankcase guard oil drain hole (Used prior to tractor #2439)
	70091662	1	1	1	COVER, crankcase guard oil drain hole (Effective with tractor #2439)
26	70070469	4	4	4	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	4	4	4	LOCKWASHER, 1/2"
27	70082741	1	1	1	COVER, crankcase guard water drain hole (Used prior to tractor #2439)
	70091662	1	1	1	COVER, crankcase guard water drain hole (Effective with tractor #2439)
28	70070469	4	4	4	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	4	4	4	LOCKWASHER, 1/2"
29	70040503	1	1	1	HOOK, front pull
30	70012762	4	4	4	CAPSCREW, 7/8"NF x 3-1/4"
31	70070400	4	4	4	NUT, high, 7/8"NF
32	70084643	2	2	-	TRUNNION, radiator guard mounting
33	70073424	8	8	-	CAPSCREW, 1"NF x 4"
	70600236	8	8	-	NUT, high, 1"NF
34	70084734	1	1	-	BUMPER, front (Not used with front-mounted dozer equipment)
35	70070272	4	4	-	CAPSCREW, 1"NF x 3"
	70910916	4	4	-	LOCKWASHER, 1"
	70911047	4	4	-	NUT, 1"NF



BOTTOM GUARDS

USAGE: Special Equipment. For tractors engaged in logging operations.

* Tractors prior to serial No. 5154 excluding No. 5104
 ** Tractors serial No. 5154 and up, including No. 5104

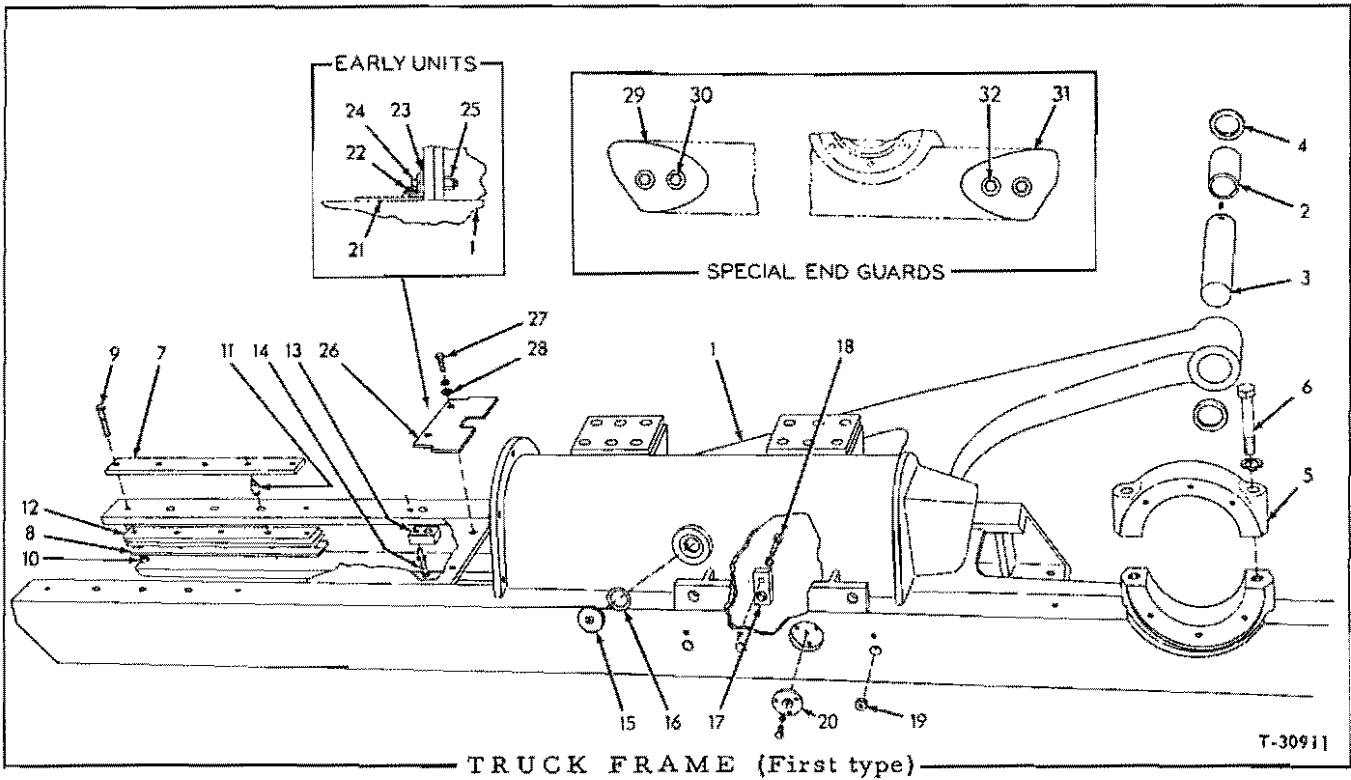
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70091761	1	-	GUARD ASSEMBLY, front section (Includes items 4 thru 7) (Used in place of standard crankcase GUARD ASSEMBLY 70091631)
	70099117	-	1	GUARD ASSEMBLY, front section (Includes items 4 thru 7) (Used in place of standard crankcase GUARD ASSEMBLY 70091631)
2	70023618	10	10	CAPSCREW, 5/8"NF x 2-1/2"
3	70064810	10	10	WASHER, plain
	70904209	10	10	LOCKWASHER, 5/8"
	70911044	10	10	NUT, 5/8"NF
4	70083933	1	-	COVER, water drain hole (8-1/2" long) (Used prior to July 1959)
	70091765	1	1	COVER, water drain hole (10-1/4" long) (Effective July 1959)
5	70035221	4	4	CAPSCREW, 1/2"NC x 1"
	70904208	4	4	LOCKWASHER, 1/2"
6	70061526	1	-	COVER, crankcase oil drain hole (12-3/4" long) (Used prior to July 1959)
	70091759	1	1	COVER, crankcase oil drain hole (12" long) (Effective July 1959)
7	70035221	4	4	CAPSCREW, 1/2"NC x 1"
	70904208	4	4	LOCKWASHER, 1/2"
8	70091178	1	-	GUARD ASSEMBLY, rear section (Includes items 13 and 14) (If for tractors prior to #1775 also order 1 CHANNEL 70091164, 2 BLOCKS 70092806, 4 CAPSCREWS 70057517 and 6 CAPSCREWS 70035248)
	70624659	-	1	GUARD ASSEMBLY, rear section (Includes items 13 and 14)
9	70012984	2	-	CAPSCREW, 3/4"NF x 2-3/4"
	70070285	-	2	CAPSCREW, 3/4"NF x 3"
10	70061689	4	4	WASHER, plain
11	70012767	2	2	NUT, high, 3/4"NF
12	70023465	6	-	CAPSCREW, 5/8"NF x 1-3/4" (Used prior to tractor #1775)
	70035248	6	5	CAPSCREW, 5/8"NF x 2-1/4" (Effective with tractor #1775)
	70064810	-	5	WASHER, plain
	70904209	6	5	LOCKWASHER, 5/8"
	70911044	6	5	NUT, 5/8"NF
13	70069816	1	-	COVER, transmission oil drain (17-1/2" long) (Used prior to tractor #1775)
	70091177	1	1	COVER, transmission oil drain (14-1/2" long) (Effective with tractor #1775)
14	70035221	4	4	CAPSCREW, 1/2"NC x 1"
	70904208	4	4	LOCKWASHER, 1/2"

(Continued)

BOTTOM GUARDS (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
15	70061661	1	-	CHANNEL, supporting, rear guard (Used prior to tractor #1775)
	70091164	1	-	CHANNEL, supporting, rear guard (Effective with tractor #1775)
	70624683	-	1	CHANNEL, supporting, rear guard
16	70035278	4	4	CAPSCREW, 1/2"NF x 2-3/4" (Not used on tractor #1775 thru #5153)
	70057517	4	-	CAPSCREW, 1/2"NF x 4" (Used on tractors #1775 thru #5153 only)
	70904208	4	4	LOCKWASHER, 1/2"
	70911043	4	4	NUT, 1/2"NF
17	70092806	2	-	BLOCK, spacing, guard supporting channel (Effective with tractor #1775)
18	70073308	4	4	SHIM, channel spacing (Use as required)

MEMO



TRUCK FRAME

* Models HD16A, AC prior to serial No. 5701
 ** Models HD16D, DC prior to serial No. 5655
 Δ Model HD16FC prior to serial No. 5632
 ΔΔ Model HD16GC prior to serial No. 5616

ITEM	PART NO.	QUANTITY				DESCRIPTION
		*	**	Δ	ΔΔ	
1	-----	1	-	-	-	FRAME ASSEMBLY, left (Order TRUCK FRAME KIT 70632307)
	-----	-	1	-	-	FRAME ASSEMBLY, left (Order TRUCK FRAME KIT 70632139)
	70074161	-	-	1	-	FRAME ASSEMBLY, left
	-----	-	-	-	1	FRAME ASSEMBLY, left (Order TRUCK FRAME KIT 70631923)
	-----	1	-	-	-	FRAME ASSEMBLY, right (Order TRUCK FRAME KIT 70632308)
	-----	-	1	-	-	FRAME ASSEMBLY, right (Order TRUCK FRAME KIT 70632140)
	70074162	-	-	1	-	FRAME ASSEMBLY, right
-----	-	-	-	1	FRAME ASSEMBLY, right (Order TRUCK FRAME KIT 70631924)	
<p><u>NOTE:</u> Each Frame Assembly listed above includes items 2, 5 and 6.</p>						
2	70059699	2	2	2	2	BUSHING, pivot shaft
3	70059701	2	2	2	2	SHAFT, pivot
	70907070	2	2	2	2	PLUG, pipe, ctsk-hd., 1/4"NPT
4	70623643	4	4	4	4	SEAL, dirt, pivot shaft
5	70059587	2	2	2	2	CAP, sprocket shaft bearing
6	70012561	4	4	4	4	CAPSCREW, 1"NF x 5-1/4"
	70910916	4	4	4	4	LOCKWASHER, 1"
7	70099494	4	4	4	4	BAR, slide, track idler, upper (When making first replacement also order 2 SHIMS 70099495)
8	70077669	4	4	4	4	BAR, slide, track idler, lower
9	70070403	8	8	8	8	CAPSCREW, slide bar (1/2"NF x 3")
10	70038234	8	8	8	8	NUT, high, 1/2"NF
11	70059398	12	12	12	12	PIN, dowel, track slide bar
12	70099496	8	8	8	8	SHIM, adjusting, track idler slide bar (.014" thick. Use as req'd)
	70059382	12	12	12	12	SHIM, adjusting, track idler slide bar (.028" thick. Use as req'd)
	70099495	8	8	8	8	SHIM, adjusting, track idler slide bar (.065" thick. Use as req'd)
13	70059704	4	4	-	-	BLOCK, equalizing spring seat (7/8" tapped hole)
	70087762	-	-	8	8	BLOCK, rigid beam (1" tapped hole)
14	70035068	4	4	8	8	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	4	4	8	8	LOCKWASHER, 1/2"
15	70035250	2	2	2	2	PLUG, filling hole
16	70035249	2	2	2	2	GASKET, filling hole plug

(Continued)

TRUCK FRAME (Continued)

ITEM	PART NO.	QUANTITY				DESCRIPTION
		*	**	Δ	ΔΔ	
17	70066941	6	6	-	-	BLOCK, tapped (For mounting dozing equipment. 4 used prior to tractor #1277)
18	70035067	6	6	-	-	CAPSCREW, 1/2"NF x 2"
	70904208	6	6	-	-	LOCKWASHER, 1/2"
19	70053421	6	6	-	-	PLUG, thread protecting (3/4"NPT)(For protecting dozer mounting holes. 4 used prior to tractor #12771)
20	70059705	2	2	-	-	COVER (Remove when mounting dozing equipment)
	70903630	2	2	-	-	CAPSCREW, 3/8"NC x 1"
	70904206	2	2	-	-	LOCKWASHER, 3/8"

NOTE: Items 21 thru 25 comprise the first type closure arrangement used as Special Equipment prior to approx. tractor #4124

21	70094637	2	2	2	2	PLATE, closure
22	70035073	4	4	4	4	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	4	4	4	4	LOCKWASHER, 1/2"
	70064531	4	4	4	4	WASHER, plain
23	70094635	2	2	2	2	ANGLE, closure plate supporting, left
	70094636	2	2	2	2	ANGLE, closure plate supporting, right
24	70023618	4	4	4	4	CAPSCREW, 5/8"NF x 2-1/2"
	70911100	4	4	4	4	WASHER, plain, SAE std., 5/8"
25	70072366	4	4	4	4	NUT, high, 5/8"NF

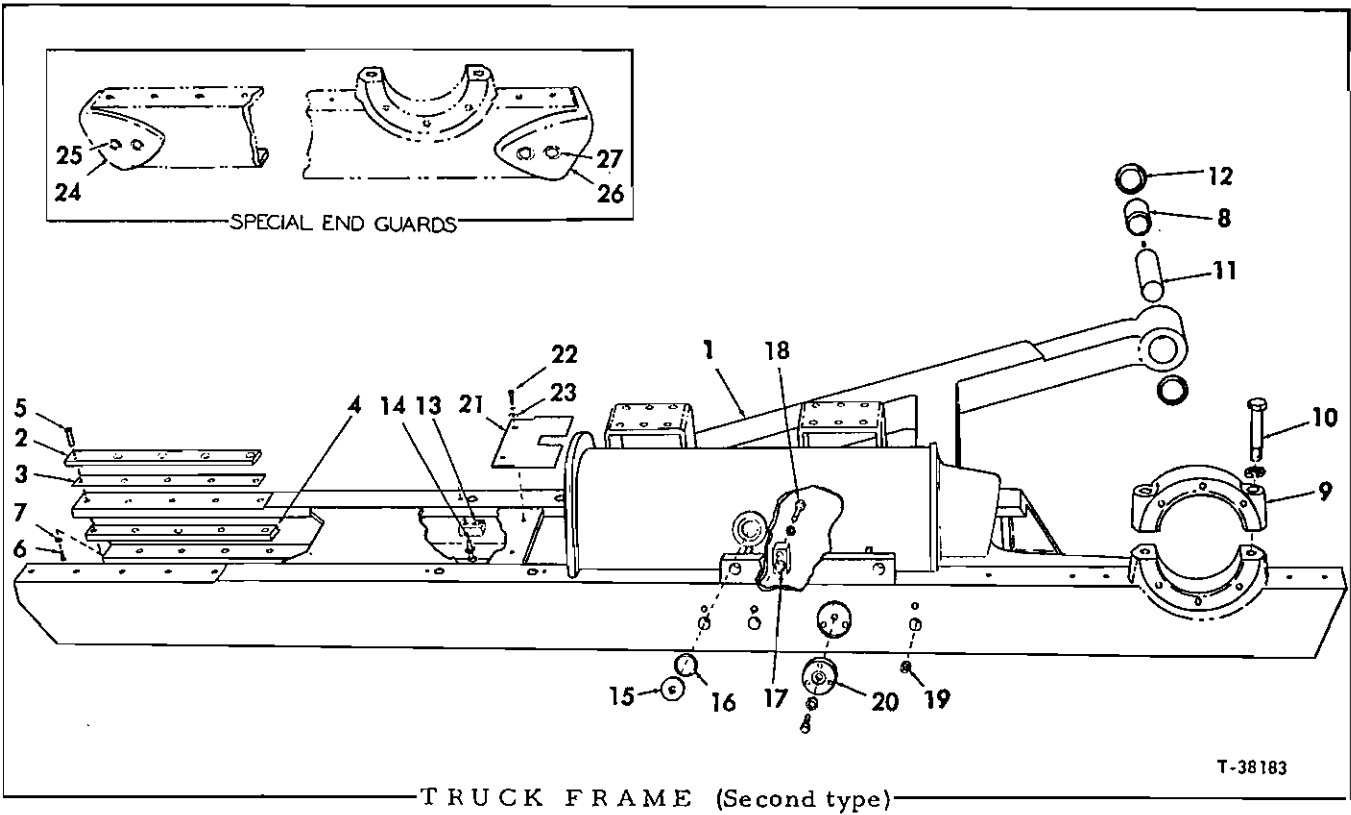
NOTE: Items 26 thru 28 comprise the second type closure arrangement used as Standard Equipment effective with approx. tractor #4124

26	70097507	2	2	2	2	PLATE, closure
27	70012992	4	4	4	4	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	4	4	4	4	LOCKWASHER, 3/8"
28	70044973	4	4	4	4	WASHER, plain

NOTE: Items listed below are Special Equipment

29	70082981	3	3	3	3	GUARD, end, left hand
30	70035229	6	6	6	6	CAPSCREW, 5/8"NF x 2"
	70904209	6	6	6	6	LOCKWASHER, 5/8"
	70911044	6	6	6	6	NUT, 5/8"NF
31	70082982	3	3	3	3	GUARD, end, right hand
32	70035229	6	6	6	6	CAPSCREW, 5/8"NF x 2"
	70904209	6	6	6	6	LOCKWASHER, 5/8"
	70911044	6	6	6	6	NUT, 5/8"NF

MEMO



TRUCK FRAME

USAGE: Effective on Models HD16A, AC with serial No. 5701
 Effective on Models HD16D, DC with serial No. 5655
 Effective on Model HD16FC with serial No. 5632
 Effective on Model HD16GC with serial No. 5616

* HD16A, AC
 ** HD16D, DC
 Δ HD16FC
 ΔΔ HD16GC

ITEM	PART NO.	QUANTITY				DESCRIPTION
		*	**	Δ	ΔΔ	
1	70632169	1	-	-	-	FRAME ASSEMBLY, left side
	70631621	-	1	-	-	FRAME ASSEMBLY, left side
	70631913	-	-	1	-	FRAME ASSEMBLY, left side
	70631915	-	-	-	1	FRAME ASSEMBLY, left side
	70632170	1	-	-	-	FRAME ASSEMBLY, right side
	70631622	-	1	-	-	FRAME ASSEMBLY, right side
	70631914	-	-	1	-	FRAME ASSEMBLY, right side
	70631916	-	-	-	1	FRAME ASSEMBLY, right side
<u>NOTE:</u> Each Frame Assembly listed above includes items 2 thru 10.						
2	70631032	4	4	4	4	BAR, slide, track idler, upper
3	70637701	4	4	4	4	SHIM, slide bar (.014" thick. Use as req'd)
	70632580	8	8	8	8	SHIM, slide bar (.028" thick. Use as req'd)
4	70631031	4	4	4	4	BAR, slide, track idler, lower
5	70631034	20	20	20	20	DOWEL, tapped, slide bar retaining
6	70646045	20	20	20	20	CAPSCREW, Nylok, 3/8" NF x 1"
7	70647080	20	20	20	20	WASHER, plain
8	70059699	2	2	2	2	BUSHING, pivot shaft
9	70059587	2	2	2	2	CAP, sprocket shaft bearing
10	70012561	4	4	4	4	CAPSCREW, 1"NF x 5-1/4"
	70910916	4	4	4	4	LOCKWASHER, 1"
11	70059701	2	2	2	2	SHAFT, pivot
	70907070	2	2	2	2	PLUG, pipe, ctsk-hd., 1/4"NPT
12	70623643	4	4	4	4	SEAL, dirt, pivot shaft
13	70631033	4	4	-	-	BLOCK, equalizing spring seat (7/8" tapped hole)
	70632254	-	-	8	8	BLOCK, rigid beam (1" tapped hole)
14	70035068	4	4	8	8	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	4	4	8	8	LOCKWASHER, 1/2"

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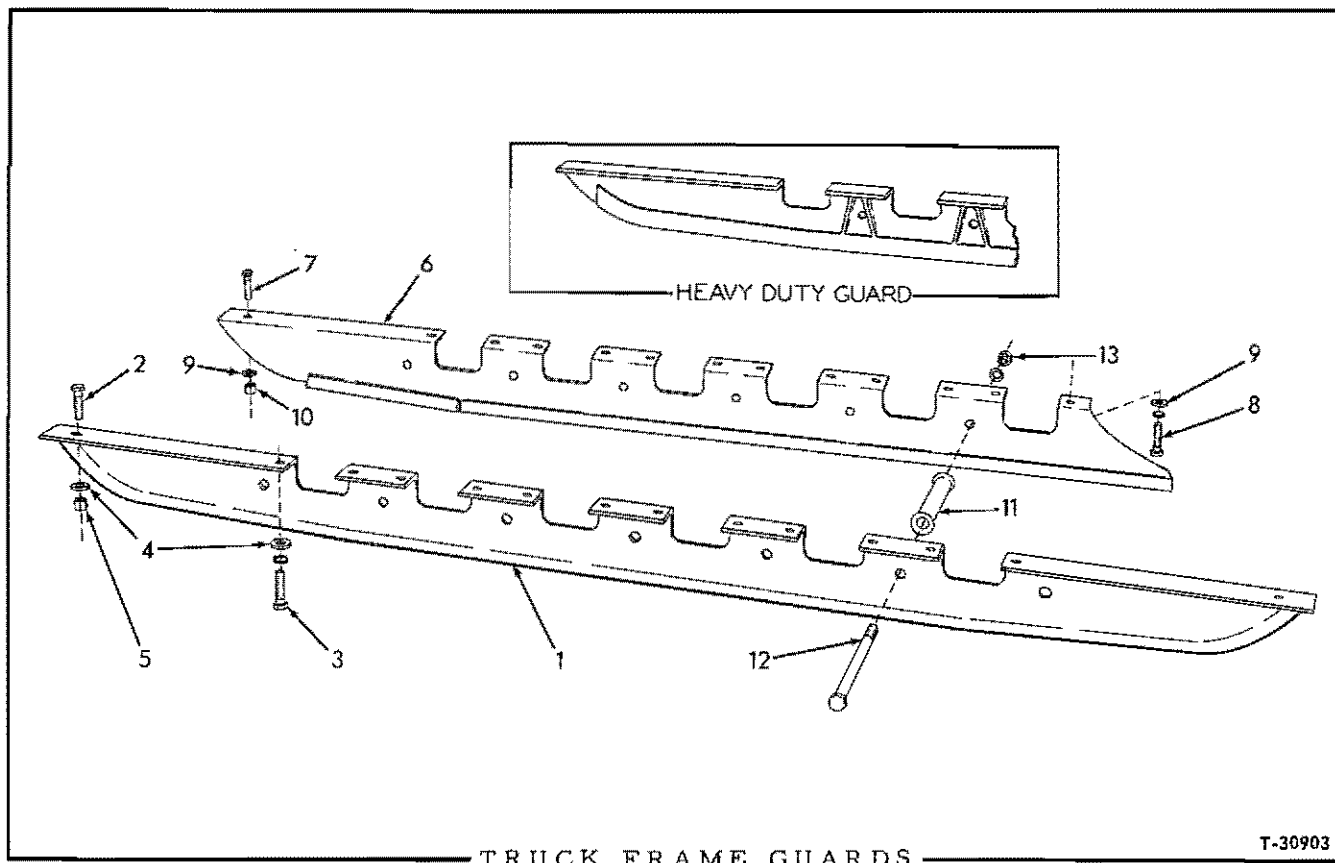
TRUCK FRAME (Continued)

ITEM	PART NO.	QUANTITY				DESCRIPTION
		*	**	Δ	ΔΔ	
15	70035250	2	2	2	2	PLUG, filling hole
16	70035249	2	2	2	2	GASKET, filling hole plug
17	70066941	6	6	-	-	BLOCK, tapped (For mounting dozing equipment)
18	70035067	6	6	-	-	CAPSCREW, 1/2"NF x 2"
	70904208	6	6	-	-	LOCKWASHER, 1/2"
19	70053421	6	6	-	-	PLUG, thread protecting (3/4"NPT)(For protecting dozer mounting holes)
20	70059705	2	2	-	-	COVER (Remove when mounting dozing equipment)
	70903630	2	2	-	-	CAPSCREW, 3/8"NC x 1"
	70904206	2	2	-	-	LOCKWASHER, 3/8"
21	70097507	2	2	2	2	PLATE, closure
22	70012992	4	4	4	4	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	4	4	4	4	LOCKWASHER, 3/8"
23	70044973	4	4	4	4	WASHER, plain

NOTE: Items listed below are Special Equipment

24	70656749	3	3	3	3	GUARD, end, left hand
25	70035229	6	6	6	6	CAPSCREW, 5/8"NF x 2"
	70904209	6	6	6	6	LOCKWASHER, 5/8"
	70911044	6	6	6	6	NUT, 5/8"NF
26	70656750	3	3	3	3	GUARD, end, right hand
27	70035229	6	6	6	6	CAPSCREW, 5/8"NF x 2"
	70904209	6	6	6	6	LOCKWASHER, 5/8"
	70911044	6	6	6	6	NUT, 5/8"NF

MEMO



USAGE: Model HD16A, AC tractors prior to serial No. 5701

- * Standard equipment. Tractors prior to serial No. 4710 excluding EXCEPTIONS below
- ** Standard equipment. Tractors serial No. 4710 and up including EXCEPTIONS below
- *** Special equipment (Heavy-duty)

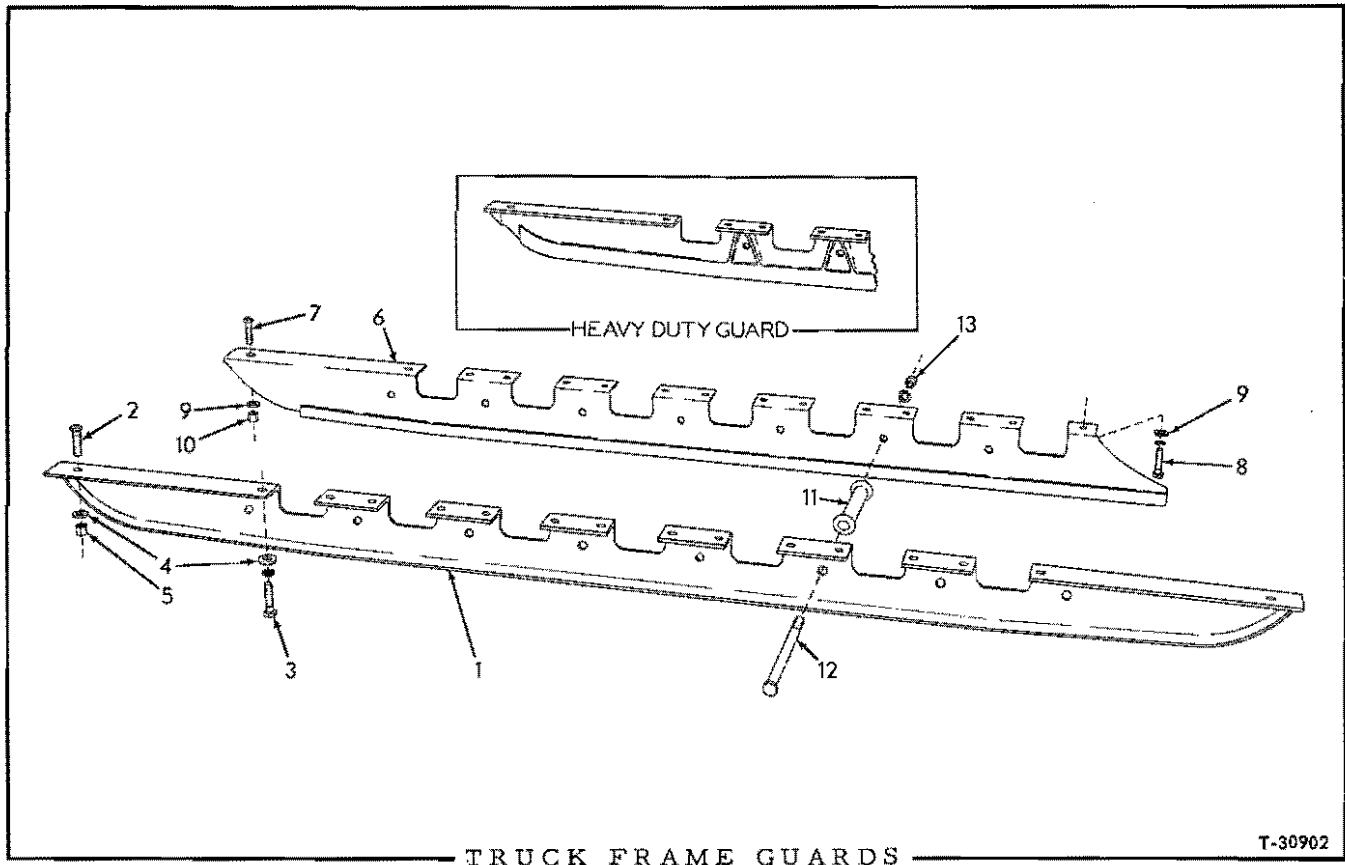
ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70099602	2	-	-	GUARD, outer
	70099603	-	2	-	GUARD, outer
	70082921	-	-	2	GUARD, outer
2	70012984	4	4	-	CAPSCREW, 3/4"NF x 2-3/4"
3	70070285	24	24	28	CAPSCREW, 3/4"NF x 3"
	70904369	24	24	24	LOCKWASHER, 3/4"
4	70061689	28	28	28	WASHER, plain
5	70012767	4	4	4	NUT, high, 3/4"NF

(Continued)

TRUCK FRAME GUARDS (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
6	70099605	1	-	-	GUARD, inner, left truck frame
	70099606	1	-	-	GUARD, inner, right truck frame
	70099607	-	1	-	GUARD, inner, left truck frame
	70099608	-	1	-	GUARD, inner, right truck frame
	70082925	-	-	1	GUARD, inner, left truck frame
	70082926	-	-	1	GUARD, inner, right truck frame
7	70012984	2	2	-	CAPSCREW, 3/4"NF x 2-3/4"
8	70070285	24	24	26	CAPSCREW, 3/4"NF x 3"
	70904369	24	24	24	LOCKWASHER, 3/4"
9	70061689	26	26	26	WASHER, plain
10	70012767	2	2	2	NUT, high, 3/4"NF
11	70082915	-	12	10	SPACER, guard bracing
12	70099712	-	12	-	CAPSCREW, guard bracing spacer (7/8"NF x 12-7/8")
	70082917	-	-	10	CAPSCREW, guard bracing spacer (7/8"NF x 13-5/16")
13	70905347	-	12	10	LOCKWASHER, 7/8"
	70070400	-	12	10	NUT, high, 7/8"NF

EXCEPTIONS: HD16-4253, 4260, 4385, 4390, 4396, 4397,
 4403, 4421, 4426, 4427, 4432, 4439, 4445,
 4450, 4474, 4475, 4480, 4481, 4486, 4487,
 4492, 4498, 4505, 4540, 4541, 4546, 4552,
 4585, 4601, 4605, 4609, 4613, 4621, 4633,
 4647, 4649, 4652, 4655, 4658, 4661, 4664,
 4667, 4670, 4673, 4676, 4686



TRUCK FRAME GUARDS

T-30902

USAGE: Model HD16D, DC tractors prior to serial No. 5655.
 Model HD16FC tractors prior to serial No. 5632

- * Standard equipment. Tractors prior to serial No. 4699 excluding EXCEPTIONS below
- ** Standard equipment. Tractors serial No. 4699 and up including EXCEPTIONS below
- *** Special equipment (Heavy-duty)

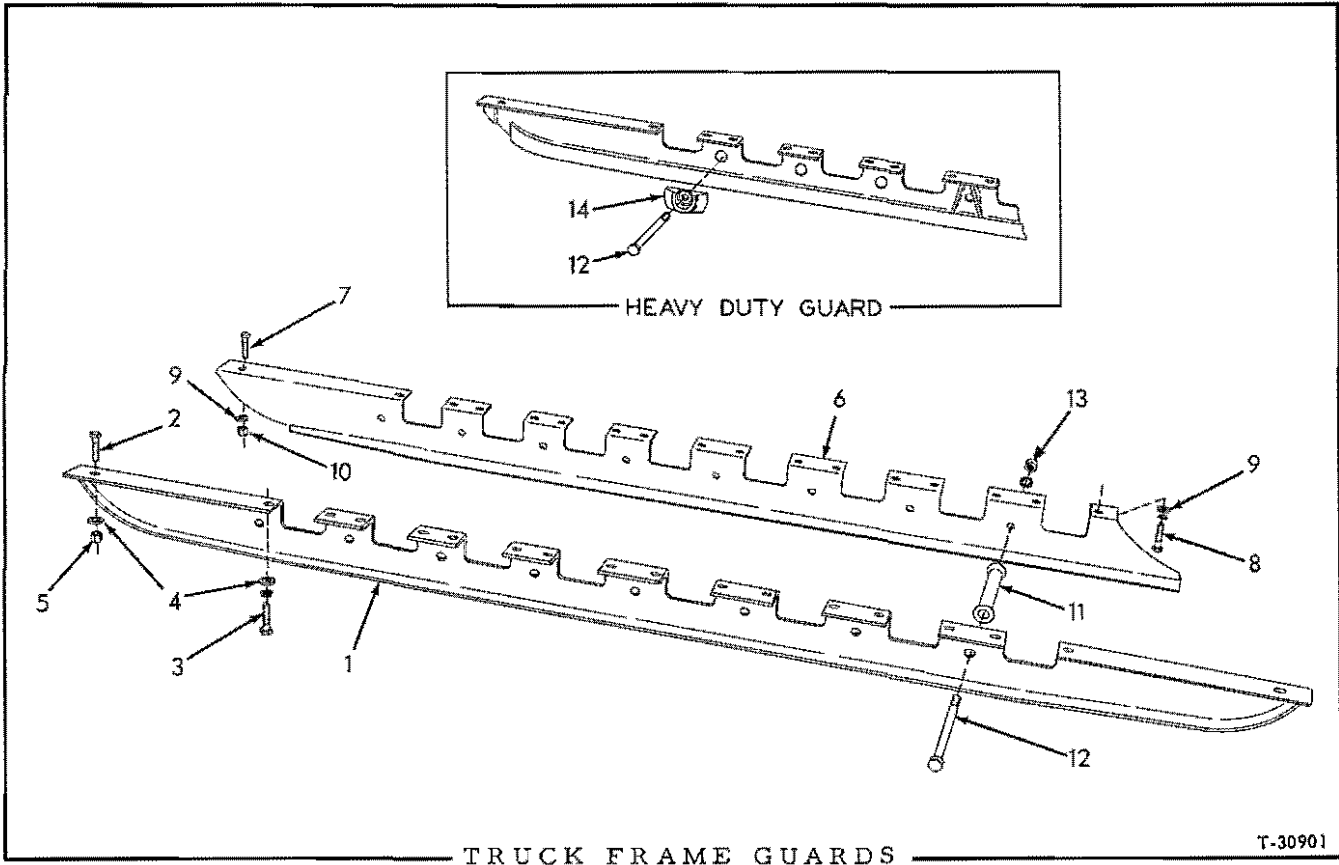
ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70099609	2	-	-	GUARD, outer
	70099610	-	2	-	GUARD, outer
	70093586	-	-	2	GUARD, outer
2	70012984	4	4	-	CAPSCREW, 3/4"NF x 2-3/4"
3	70070285	28	28	32	CAPSCREW, 3/4"NF x 3"
	70904369	28	28	28	LOCKWASHER, 3/4"
4	70061689	32	32	32	WASHER, plain
5	70012767	4	4	4	NUT, high, 3/4"NF

(Continued)

TRUCK FRAME GUARDS (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
6	70074173	1	-	-	GUARD, inner, left truck frame
	70074174	1	-	-	GUARD, inner, right truck frame
	70099613	-	1	-	GUARD, inner, left truck frame
	70099614	-	1	-	GUARD, inner, right truck frame
	70093787	-	-	1	GUARD, inner, left truck frame
	70093788	-	-	1	GUARD, inner, right truck frame
7	70012984	2	2	-	CAPSCREW, 3/4"NF x 2-3/4"
8	70070285	28	28	30	CAPSCREW, 3/4"NF x 3"
	70904369	28	28	28	LOCKWASHER, 3/4"
9	70061689	30	30	30	WASHER, plain
10	70012767	2	2	2	NUT, high, 3/4"NF
11	70082915	-	14	12	SPACER, guard bracing
12	70099712	-	14	-	CAPSCREW, guard bracing spacer (7/8"NF x 12-7/8")
	70082917	-	-	12	CAPSCREW, guard bracing spacer (7/8"NF x 13-5/16")
	70905347	-	14	12	LOCKWASHER, 7/8"
13	70070400	-	14	12	NUT, high, 7/8"NF

EXCEPTIONS: HD16-4364, 4369, 4488, 4501, 4507, 4508, 4509, 4515, 4524, 4525, 4530, 4538, 4542, 4545, 4547, 4548, 4550, 4551, 4554, 4555, 4557, 4559, 4560, 4561, 4563, 4566, 4567, 4568, 4570, 4571, 4579, 4580, 4586, 4587, 4588, 4590, 4591, 4592, 4595, 4596, 4598, 4599, 4600, 4603, 4607, 4611, 4615, 4618, 4619, 4620, 4622, 4623, 4624, 4626, 4627, 4628, 4630, 4631, 4632, 4634, 4635, 4636, 4638, 4639, 4641, 4644, 4651, 4653, 4654, 4656, 4657, 4663, 4665, 4666, 4668, 4669, 4671, 4672, 4674, 4675, 4677, 4678, 4679, 4681, 4682, 4683, 4689, 4691, 4692, 4695, 4698.



USAGE: Model HD16GC tractors prior to serial No. 5616

- * Standard equipment. Tractors prior to serial No. 4710 excluding EXCEPTIONS below
- ** Standard equipment. Tractors serial No. 4710 and up including EXCEPTIONS below
- *** Special equipment (Heavy-duty)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70099619	1	-	-	GUARD, outer, left truck frame
	70089794	1	-	-	GUARD, outer, right truck frame
	70099621	-	1	-	GUARD, outer, left truck frame
	70099622	-	1	-	GUARD, outer, right truck frame
	70092619	-	-	1	GUARD, outer, left truck frame
	70092620	-	-	1	GUARD, outer, right truck frame
2	70012984	4	4	-	CAPSCREW, 3/4"NF x 2-3/4"
3	70070285	32	32	36	CAPSCREW, 3/4"NF x 3"
	70904369	32	32	32	LOCKWASHER, 3/4"
4	70061689	36	36	36	WASHER, plain
5	70012767	4	4	4	NUT, high, 3/4"NF

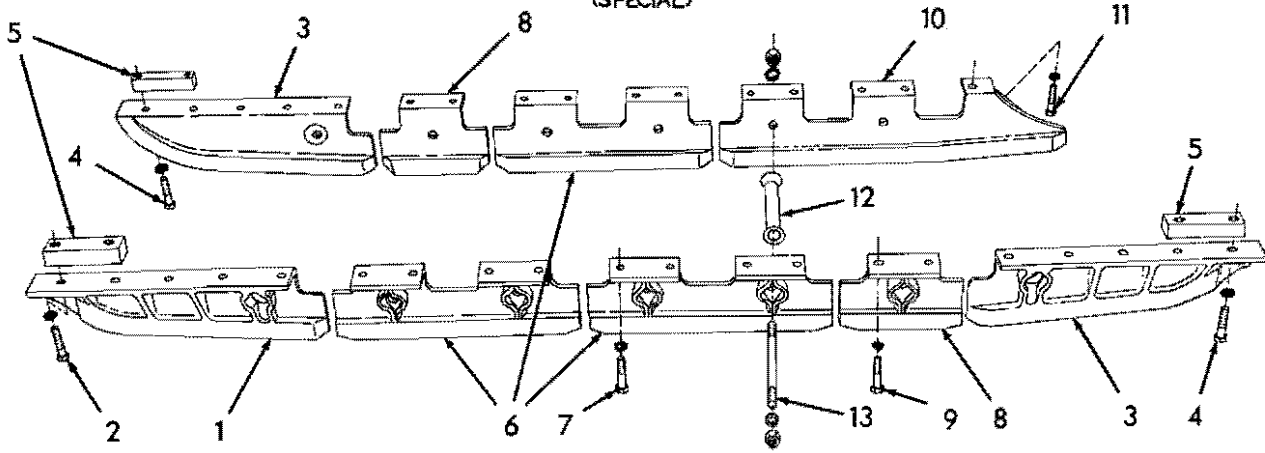
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TRUCK FRAME GUARDS (Continued)

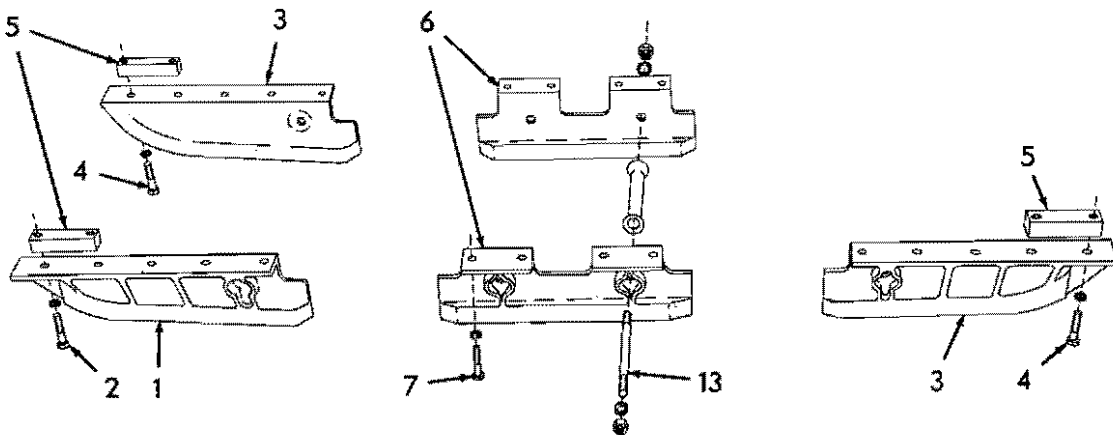
ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
6	70089795	1	-	-	GUARD, inner, left truck frame
	70089796	1	-	-	GUARD, inner, right truck frame
	70099617	-	1	-	GUARD, inner, left truck frame
	70099618	-	1	-	GUARD, inner, right truck frame
	70092623	-	-	1	GUARD, inner, left truck frame
	70092624	-	-	1	GUARD, inner, right truck frame
7	70012984	2	2	-	CAPSCREW, 3/4"NF x 2-3/4"
8	70070285	32	32	34	CAPSCREW, 3/4"NF x 3"
	70904369	32	32	32	LOCKWASHER, 3/4"
9	70061689	34	34	34	WASHER, plain
10	70012767	2	2	2	NUT, high, 3/4"NF
11	70082915	-	16	14	SPACER, guard bracing
12	70099712	-	16	-	CAPSCREW, guard bracing spacer (7/8"NF x 12-7/8")
	70082917	-	-	8	CAPSCREW, guard bracing spacer (7/8"NF x 13-5/16")
	70092616	-	-	6	CAPSCREW, guard bracing spacer (7/8"NF x 13-7/8")
13	70905347	-	16	8	LOCKWASHER, 7/8"
	70070400	-	16	14	NUT, high, 7/8"
14	70092627	-	-	12	GUARD, bracing capscREW (For use with 70092616 CAPSCREW)

EXCEPTIONS: HD16-4516, 4534, 4629, 4640

FULL GUARDING
(SPECIAL)



PARTIAL GUARDING
(STANDARD)



T-38185

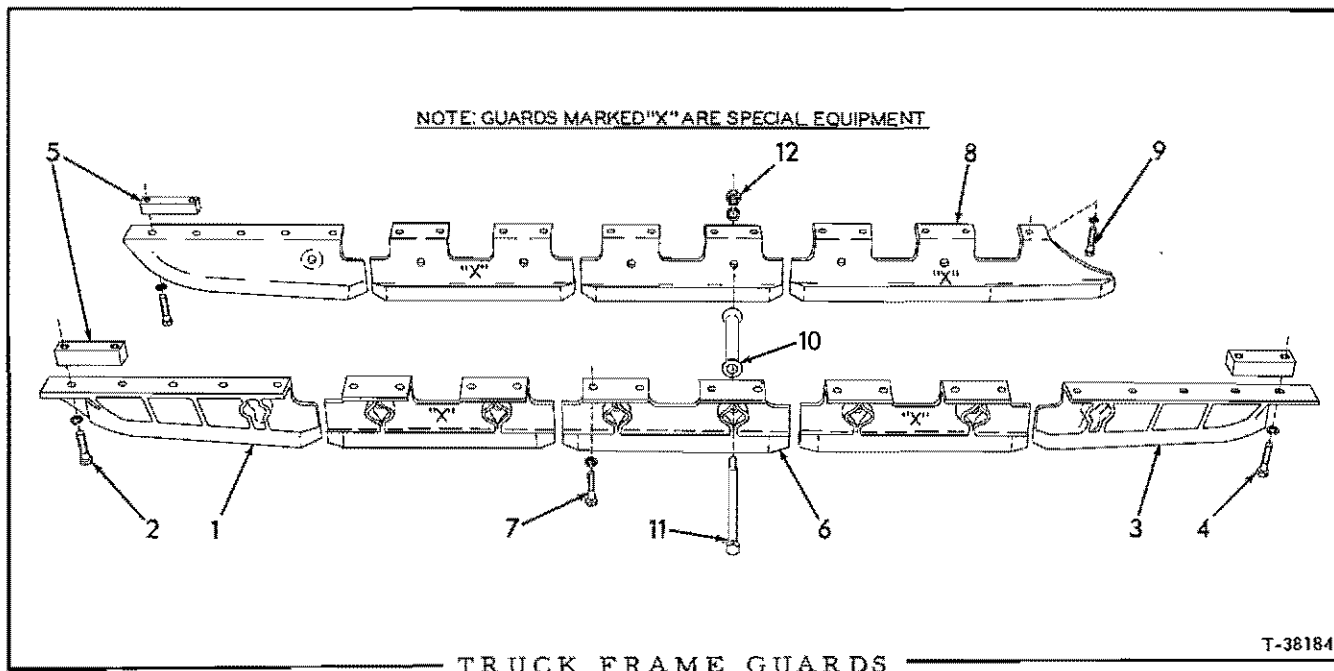
TRUCK FRAME GUARDS (Second type. Models HD16A, AC)

TRUCK FRAME GUARDS

USAGE: Model HD16A, AC tractors serial No. 5701 and up

*Partial guarding. Standard equipment
 **Full guarding. Special equipment

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70632341	3	3	GUARD, end section, left hand
2	70012526	15	15	CAPSCREW, 3/4"NF x 3-1/4"
	70904369	15	15	LOCKWASHER, 3/4"
3	70632342	3	3	GUARD, end section, right hand
4	70012526	15	15	CAPSCREW, 3/4"NF x 3-1/4"
	70904369	15	15	LOCKWASHER, 3/4"
5	70632323	12	12	BLOCK, tapped, end guard attachment
6	70632380	4	6	GUARD, center section, long
7	70012526	16	24	CAPSCREW, 3/4"NF x 3-1/4"
	70904369	16	24	LOCKWASHER, 3/4"
8	70632309	-	4	GUARD, center section, short
9	70012526	-	8	CAPSCREW, 3/4"NF x 3-1/4"
	70904369	-	8	LOCKWASHER, 3/4"
10	70632441	-	1	GUARD, rear inner section, left side
	70632442	-	1	GUARD, rear inner section, right side
11	70012526	-	10	CAPSCREW, 3/4"NF x 3-1/4"
	70904369	-	10	LOCKWASHER, 3/4"
12	70082915	6	12	SPACER, guard bracing
13	70650848	6	12	ROD, guard bearing (7/8"NF x 14-1/4")
	70905347	12	24	LOCKWASHER, 7/8"
	70911046	12	24	NUT, 7/8"NF

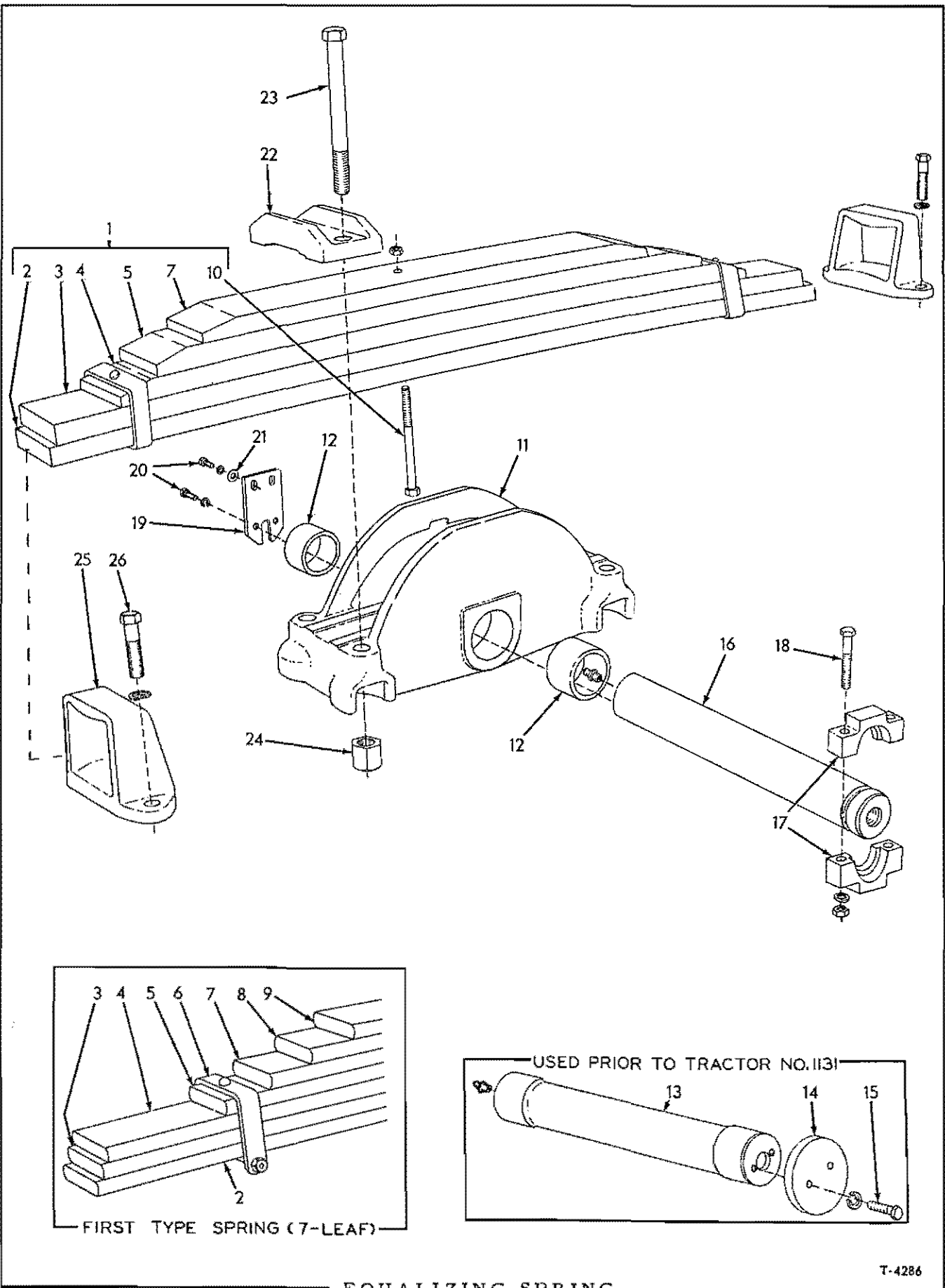


USAGE: Model HD16D, DC tractors serial No. 5655 and up
 Model HD16FC tractor serial No. 5632 and up
 Model HD16GC tractor serial No. 5616 and up

* Partial guarding. Standard equipment
 ** Full guarding. Special equipment

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70632341	3	3	GUARD, end section, left hand
2	70012526	15	15	CAPSCREW, 3/4"NF x 3-1/4"
	70904369	15	15	LOCKWASHER, 3/4"
3	70632342	3	3	GUARD, end section, right hand
4	70012526	15	15	CAPSCREW, 3/4"NF x 3-1/4"
	70904369	15	15	LOCKWASHER, 3/4"
5	70632323	12	12	BLOCK, tapped, end guard attachment
6	70632380	4	10	GUARD, center section
7	70012526	16	40	CAPSCREW, 3/4"NF x 3-1/4"
	70904369	16	40	LOCKWASHER, 3/4"
8	70632441	-	1	GUARD, rear inner section, left side
	70632442	-	1	GUARD, rear inner section, right side
9	70012526	-	10	CAPSCREW, 3/4"NF x 3-1/4"
	70904369	-	10	LOCKWASHER, 3/4"
10	70082915	6	14	SPACER, guard bracing
11	70631833	6	14	CAPSCREW, guard bracing (7/8"NF x 13-1/2")
	70905347	6	14	LOCKWASHER, 7/8"
12	70070400	6	14	NUT, high, 7/8"NF

MEMO



EQUALIZING SPRING

T-4286

EQUALIZING SPRING

USAGE: Models HD16A, AC, D, DC

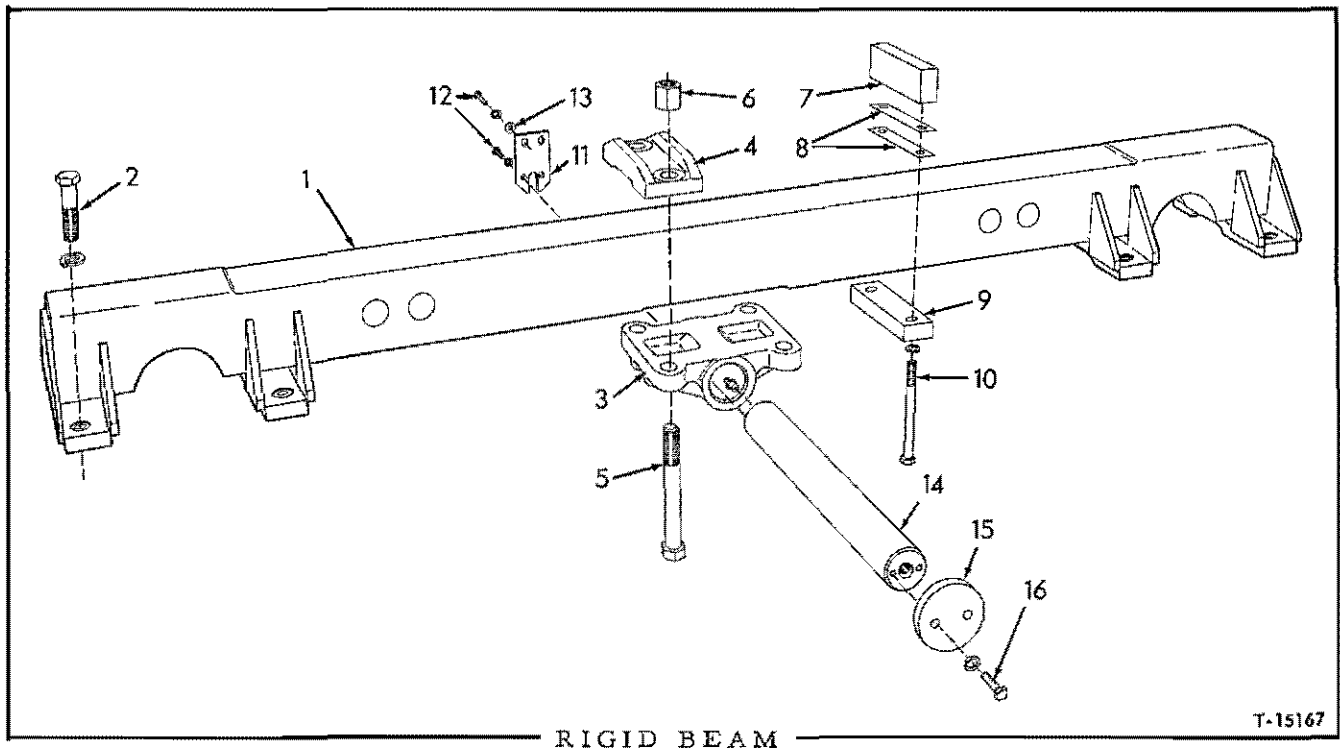
* Tractors prior to serial No. 4986
 ** Tractors serial No. 4986 and up

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	-----	1 -	SPRING ASSEMBLY (Consists of items 2 thru 10)(Order SPRING ASSEMBLY 70099303. If for tractors prior to #1888 also order 2 SEATS 70090760)
	70099303	- 1	SPRING ASSEMBLY (Consists of items 2, 3, 4, 5, 7 and 10)
2	70059491	1 -	LEAF, main (65-1/2" long)
	70099298	- 1	LEAF, main (65-1/2" long)
3	70096259	1 -	LEAF, second (64-1/2" long)
	70099299	- 1	LEAF, second (64-1/2" long)
4	70059492	1 -	LEAF, third (53-1/2" long)(Used prior to tractor #1888)
	70096260	1 -	LEAF, third (63-1/2" long)(Effective with tractor #1888)
	70099300	- 1	LEAF, third (55-1/2" long)
5	70059493	1 -	LEAF, fourth (47-1/4" long. Includes item 6)
	70099301	- 1	LEAF, fourth (45-1/2" long)
6	70088874	2 -	CLIP KIT, spring rebound (Each consists of 1 clip, 1 rivet, 1 bolt, 1 nut and 1 spacer)
7	70059495	1 -	LEAF, fifth (40-7/8" long)
	70099302	- 1	LEAF, fifth (35-1/2" long)
8	70059496	1 -	LEAF, sixth (34-5/8" long)
9	70059497	1 -	LEAF, seventh (28-1/4" long)
10	70060933	1 -	BOLT, center (1/2"NF x 8". Includes NUT 70911043)
	70911043	1 -	NUT, 1/2"NF
	70052253	- 1	BOLT, center (5/8"NF x 7-3/4". Includes NUT 70911044)
	70911044	- 1	NUT, 5/8"NF
11	70083408	1 1	SADDLE ASSEMBLY (Includes item 12)
12	70056166	2 2	BUSHING, saddle
13	70623076	1 -	PIN, spring pivot (Used prior to tractor #1311)
	70912497	1 -	FITTING, lubricating, straight, 1/4"NPT (Not original equipment)
14	70059404	1 -	WASHER, pivot pin (Used prior to tractor #1311)
15	70035073	2 -	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	2 -	LOCKWASHER, 1/2"
16	70623075	1 1	PIN, spring pivot (Effective with tractor #1311)
	70912497	1 1	FITTING, lubricating, straight, 1/4"NPT (Effective with tractor #5122)

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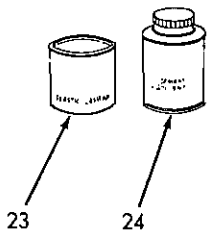
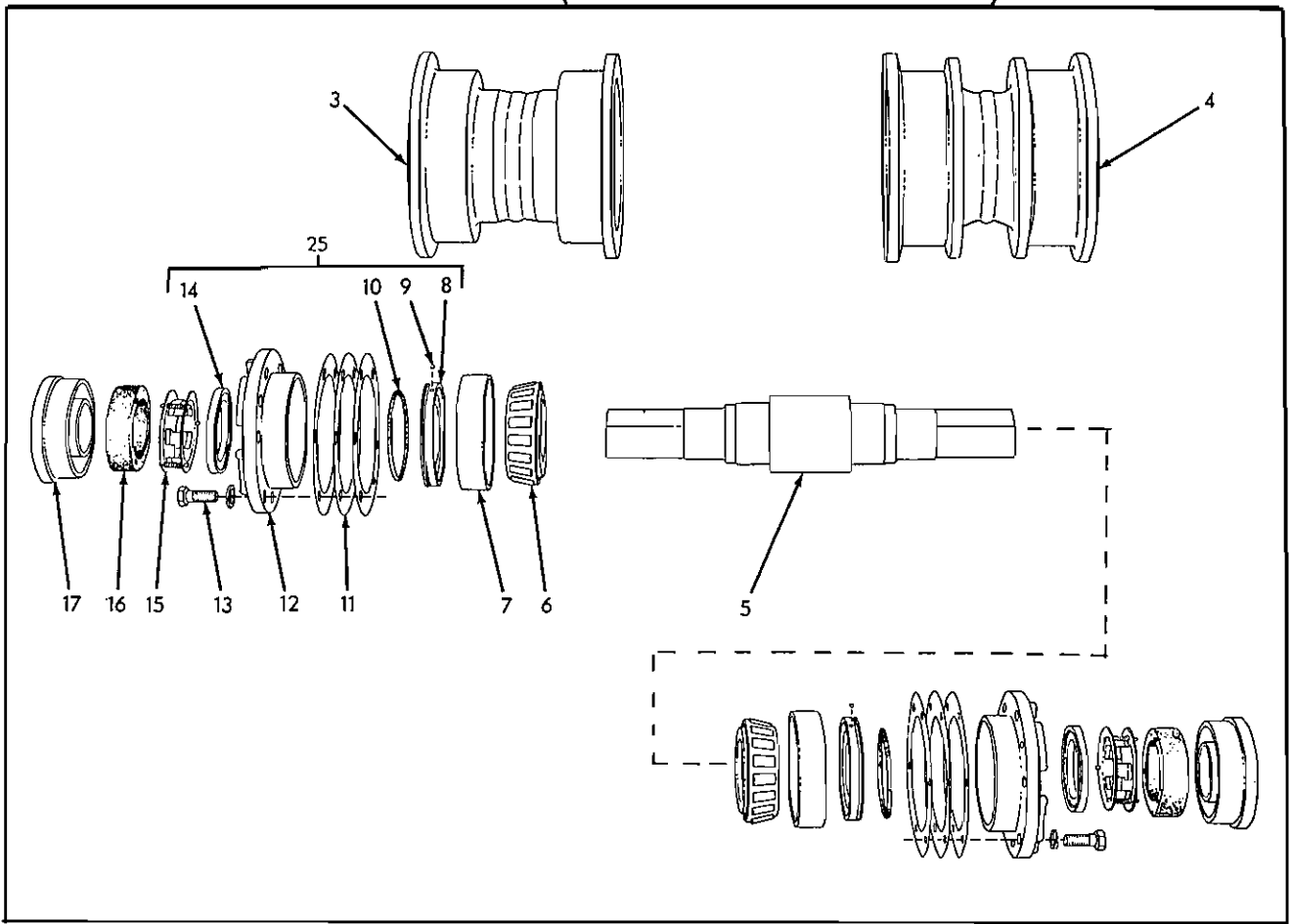
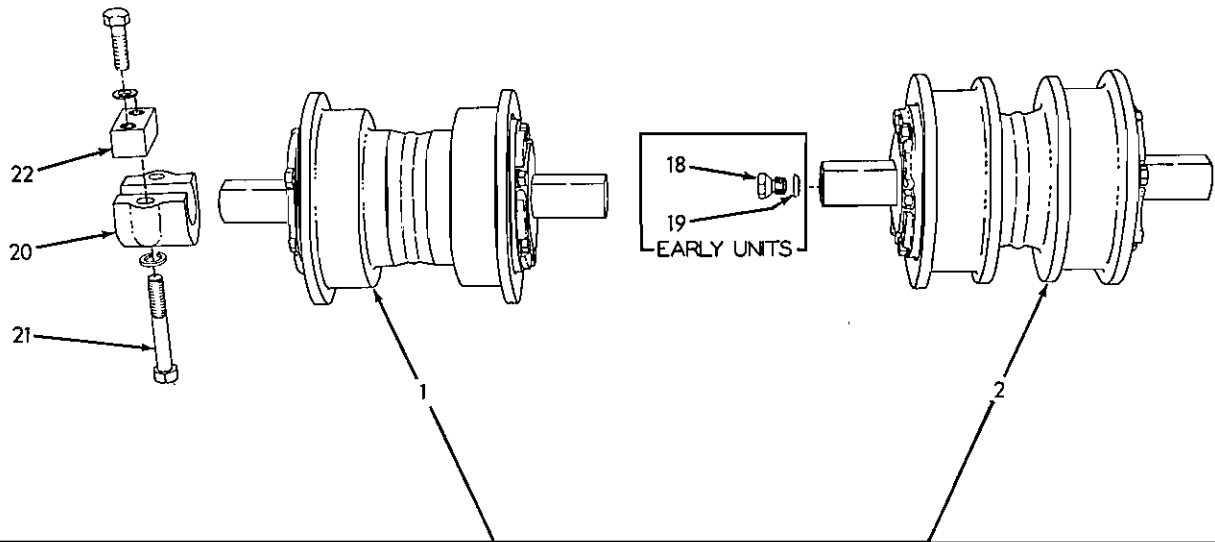
EQUALIZING SPRING (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
17	70089138	2	2	CAP, pivot pin clamping (Effective with tractor #1311)
18	70061631	2	2	CAPSCREW, 1/2"NC x 3-1/2"
	70904208	2	2	LOCKWASHER, 1/2"
	70911028	2	2	NUT, 1/2"NC
19	70627321	1	1	PLATE, pivot pin retaining
20	70035073	4	4	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	4	4	LOCKWASHER, 1/2"
21	70064531	2	2	WASHER, plain
22	70059403	2	2	SADDLE, spring
23	70065878	4	4	CAPSCREW, spring saddle (1-1/4"NF x 12")
24	70083390	4	4	NUT, high, 1-1/4"NF
25	70059479	2	-	SEAT, spring (Used prior to tractor #1888)
	70090760	2	2	SEAT, spring (1-7/8" pad)(Used on Model HD16A, AC tractors #1888 thru #5700 and on Model HD16D, DC tractors #1888 thru #5654)
	70630546	-	2	SEAT, spring (1-5/8" pad)(Effective with tractors #5701 on Models HD16A, AC and #5655 on Models HD16D, DC)
26	70012762	4	4	CAPSCREW, 7/8"NF x 3-1/4"
	70905347	4	4	LOCKWASHER, 7/8"



USAGE: Models HD16FC, GC

ITEM	PART NO.	QTY.	DESCRIPTION
1	70087687	1	BEAM, rigid
2	70073424	8	CAPSCREW, 1"NF x 4"
	70910916	8	LOCKWASHER, 1"
3	70087678	1	SADDLE, rigid beam
4	70059403	2	SADDLE, bolt
5	70074292	4	CAPSCREW, saddle (1-1/4"NF x 10-5/8")
6	70083390	4	NUT, high, 1-1/4"NF
7	70087695	2	BLOCK, spacing
8	70087692	8	SHIM, spacing (1/16" thick. Use as required)
	70087693	6	SHIM, spacing (1/32" thick. Use as required)
9	70087694	2	BLOCK, clamping
10	70065468	4	CAPSCREW, 5/8"NF x 8-1/4"
	70904209	4	LOCKWASHER, 5/8"
11	70627321	1	PLATE, saddle pin retaining
12	70035073	4	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	4	LOCKWASHER, 1/2"
13	70064531	2	WASHER, plain
14	70623076	1	PIN, beam saddle
	70912497	1	FITTING, lubricating, straight, 1/4"NPT (Effective with tractor #5110)
15	70059404	1	WASHER, saddle pin
16	70035073	2	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	2	LOCKWASHER, 1/2"



TRUCK WHEELS

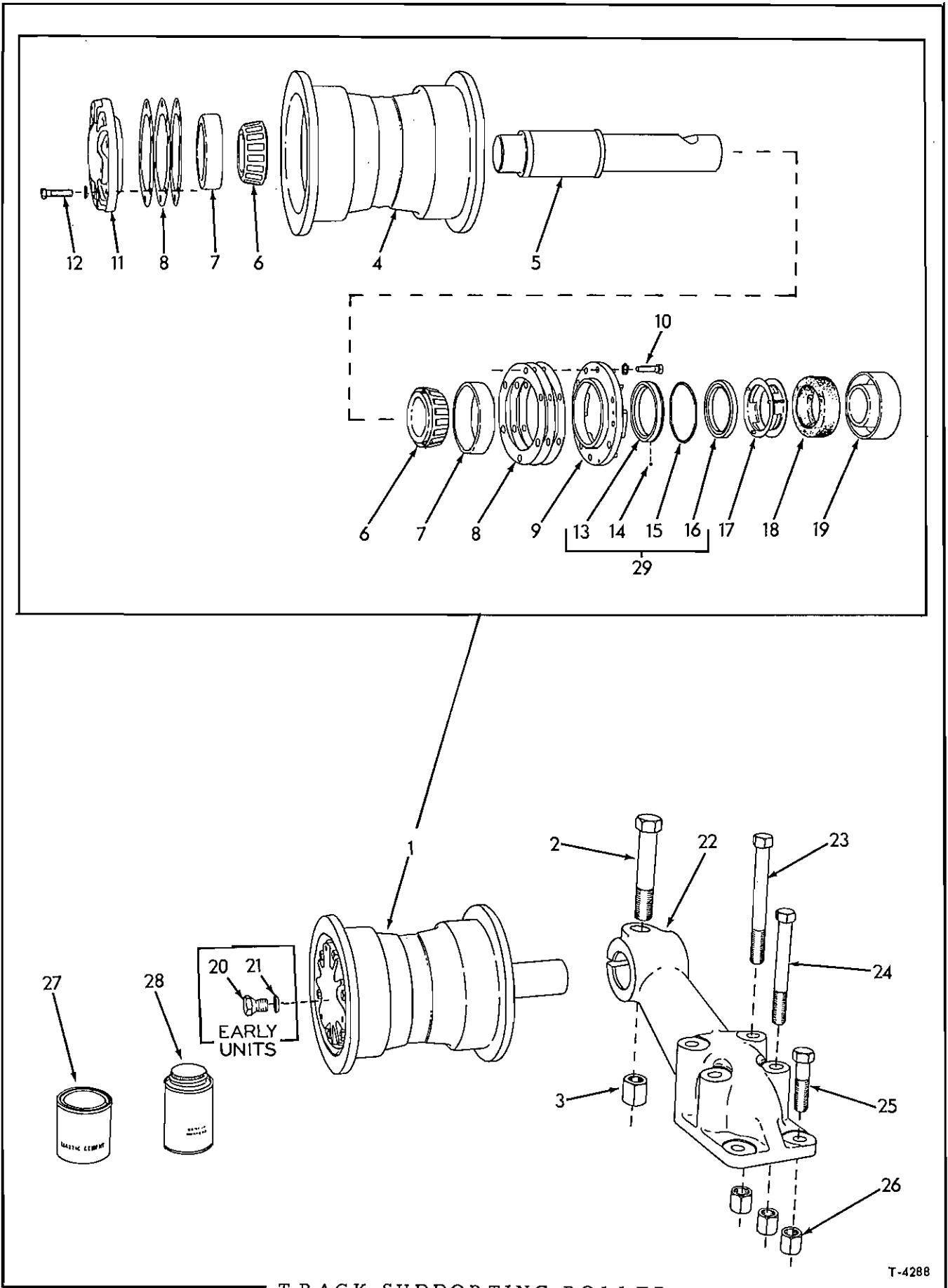
T-5149

TRUCK WHEELS

ITEM	PART NO.	QTY.	DESCRIPTION
1	70622435	1	WHEEL ASSEMBLY, single flange (Consists of items 3 and 5 thru 17)
2	70622436	1	WHEEL ASSEMBLY, double flange (Consists of items 4 thru 17) (Used prior to tractor #4726 only)
3	70074485	1	WHEEL, single flange
4	70074486	1	WHEEL, double flange (Used prior to tractor #4726 only)
5	70622002	1	SHAFT
6	70087027	2	CONE ASSEMBLY, bearing
7	70087026	2	CUP, bearing
8	70645976	2	RING, seal, inner (See item 25)
9	70905357	2	BALL, steel, 3/16" diam. (See item 25)
10	70923818	2	O-RING, seal packing (See item 25)
11	70655464	4	SHIM, bearing adjustment (.003" thick. Use as required)
	70077287	4	SHIM, bearing adjustment (.007" thick. Use as required)
	70077286	4	SHIM, bearing adjustment (.010" thick. Use as required)
	70077285	2	SHIM, bearing adjustment (.032" thick. Use as required)
12	70074489	2	RETAINER, bearing
13	70070469	12	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	12	LOCKWASHER, 1/2"
14	70051124	2	RING, seal, outer (See item 25)
15	70051121	2	SPRING ASSEMBLY, seal (Serviced only as a unit)
16	70051112	2	BOOT, seal spring
17	70074487	2	RETAINER, seal
18	70034042	1	PLUG, shaft oil hole (Used prior to tractor #5083)
19	70034043	1	GASKET, shaft oil hole plug (Used prior to tractor #5083)
20	70066692	2	BRACKET, attaching
21	70071014	4	CAPSCREW, 3/4"NF x 4-1/2"
	70904369	4	LOCKWASHER, 3/4"
22	70051919	4	BLOCK, tapped (tapered section)(Used prior to tractors #5701 on HD16A,AC; #5655 on HD16D,DC; #5632 on HD16FC; #5616 on HD16GC)
	70631290	4	BLOCK, tapped (straight section)(Effective with tractors #5701 on HD16A,AC; #5655 on HD16D,DC; #5632 on HD16FC; #5616 on HD16GC)
	70917157	4	CAPSCREW, 3/4"NF x 2-3/4"
	70904369	4	LOCKWASHER, 3/4"
23	70033288	-	CEMENT, neoprene, 1/2 pint can
24	70054890	-	SOLVENT, neoprene cement, 1/2 pint can
25	70083212	1	SEAL KIT (Includes parts for one (1) wheel only; items 8, 9, 10 and 14)

NOTE: All quantities indicated above are for one (1) wheel only. Tractors prior to serial No. 4726 used four (4) double-flange wheels. The number of wheels used on the various models is as follows:

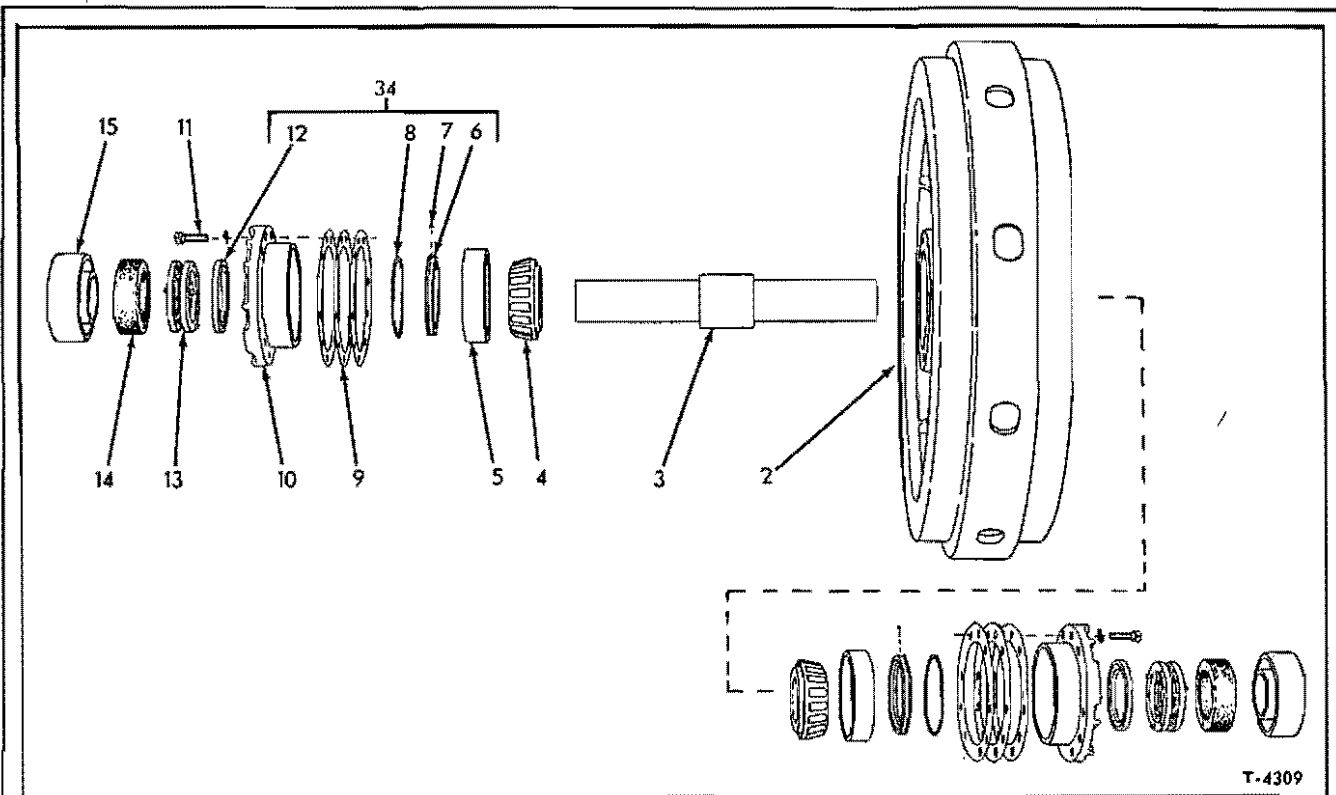
Models HD16A,AC 12
 Models HD16D,DC,FC 14
 Model HD16GC 16



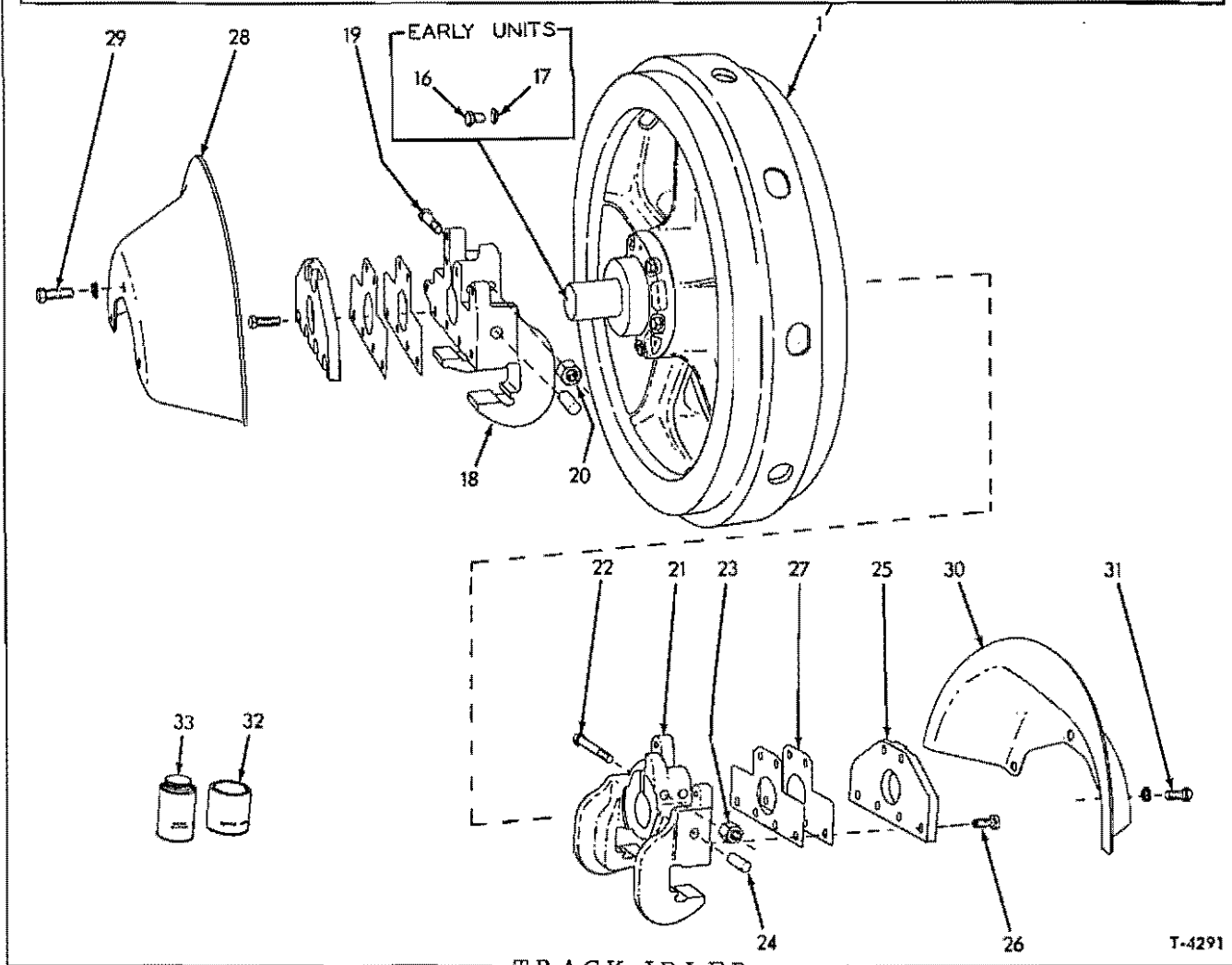
TRACK SUPPORTING ROLLER

ITEM	PART NO.	QTY.	DESCRIPTION
1	70622396	4	ROLLER ASSEMBLY, track supporting (Consists of items 4 thru 19)
2	70012561	4	CAPSCREW, 1"NF x 5-1/4"
3	70600236	4	NUT, high, 1"NF
4	70067293	4	ROLLER
5	70622395	4	SHAFT
6	70043491	8	CONE ASSEMBLY, bearing
7	70074740	8	CUP, bearing
8	70655497	16	SHIM, bearing adjustment (.003" thick. Use as required)
	70059618	24	SHIM, bearing adjustment (.007" thick. Use as required)
	70059619	20	SHIM, bearing adjustment (.010" thick. Use as required)
	70059617	8	SHIM, bearing adjustment (.032" thick. Use as required)
9	70622753	4	RETAINER, inner bearing
10	70012992	24	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	24	LOCKWASHER, 3/8"
11	70622195	4	RETAINER, outer bearing
12	70012992	24	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	24	LOCKWASHER, 3/8"
13	70067253	4	RING, seal, inner (See item 29)
14	70905357	4	BALL, steel, 3/16" diam. (See item 29)
15	70923585	4	RING, seal packing (See item 29)
16	70067251	4	RING, seal, outer (See item 29)
17	70048681	4	SPRING ASSEMBLY, seal (Serviced only as a unit)
18	70048679	4	BOOT, seal spring
19	-----	4	RETAINER, seal (3-7/8"O. D.)(Used prior to tractor #5098. Order RETAINER 70622751 and RETAINER 70622753)
	70622751	4	RETAINER, seal (4"O. D.)(Effective with tractor #5098)
20	70034042	4	PLUG, oil hole (Used prior to tractor #5098)
21	70034043	4	GASKET, oil hole plug (Used prior to tractor #5098)
22	70084593	4	BRACKET
23	70075567	8	CAPSCREW, 3/4"NF x 6-1/2"
24	70051634	8	CAPSCREW, 3/4"NF x 5-3/4"
25	70012984	8	CAPSCREW, 3/4"NF x 2-3/4"
26	70012767	24	NUT, high, 3/4"NF
27	70033288	-	CEMENT, neoprene, 1/2 pint can
28	70054890	-	SOLVENT, neoprene cement, 1/2 pint can
29	70073169	4	SEAL KIT (Includes parts for one (1) roller assembly only; items 13 thru 16)

} For cementing seal boots



T-4309



T-4291

TRACK IDLER

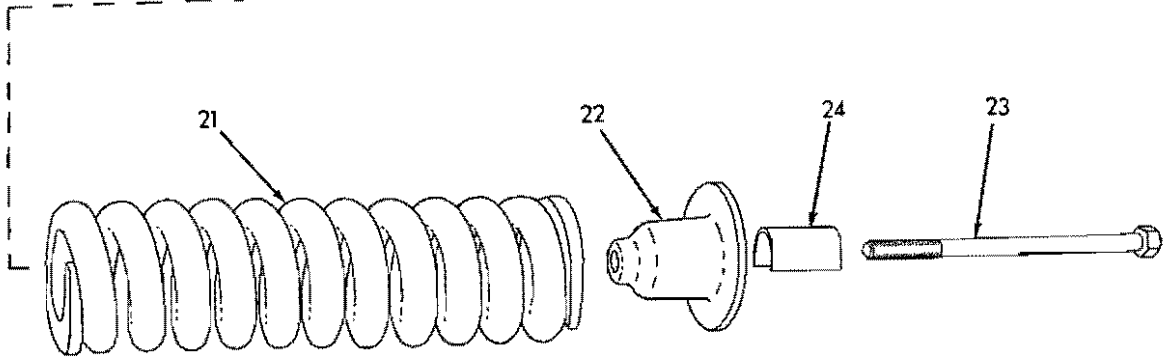
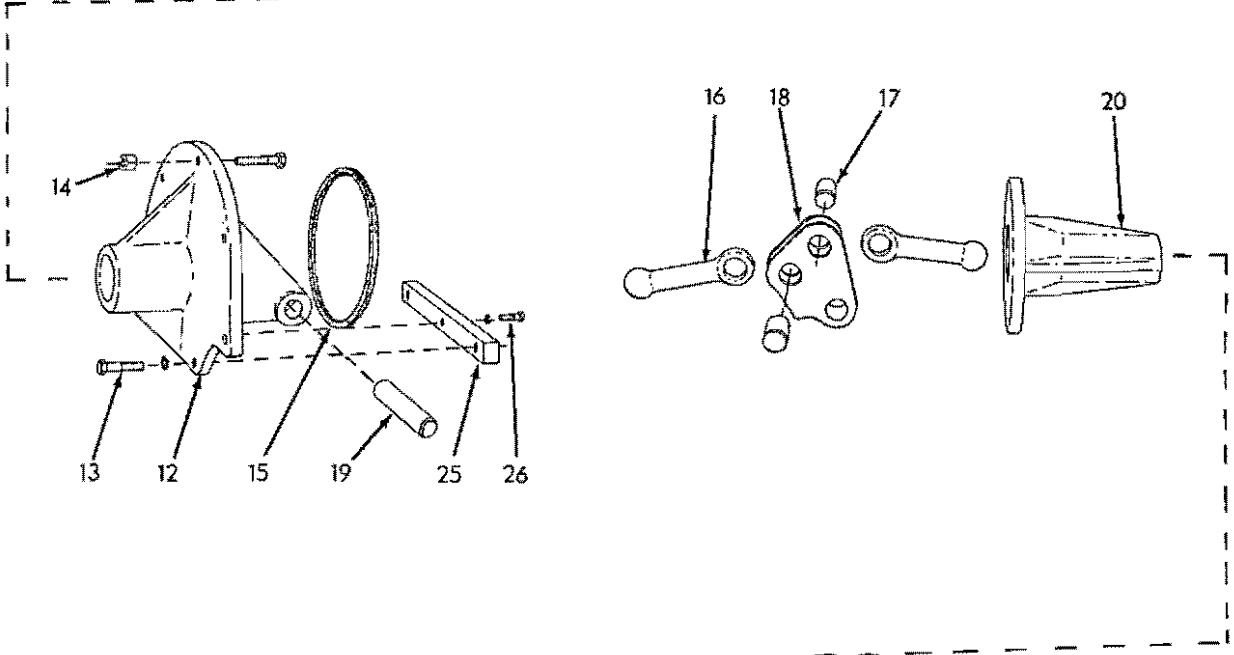
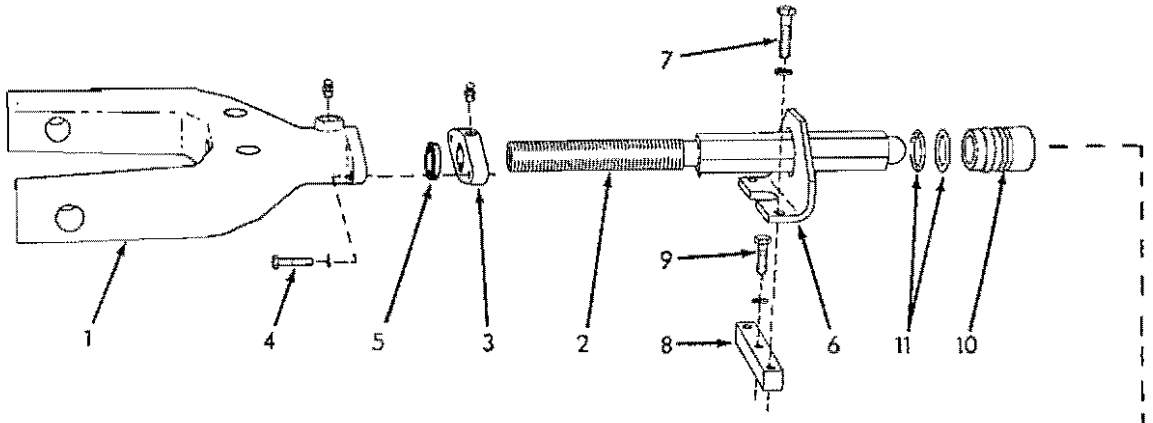
TRACK IDLER

ITEM	PART NO.	QTY.	DESCRIPTION
1	70621707	2	IDLER ASSEMBLY, track (Consists of items 2 thru 15)
2	70621868	2	IDLER
3	70622001	2	SHAFT
4	70042873	4	CONE ASSEMBLY, bearing
5	70042898	4	CUP, bearing
6	70067139	4	RING, seal, inner (See item 34)
7	70905357	4	BALL, steel, 3/16" diam. (See item 34)
8	70067137	4	RING, seal packing (See item 34)
9	70655528	8	SHIM, bearing adjustment (.003" thick. Use as required)
	70059387	12	SHIM, bearing adjustment (.007" thick. Use as required)
	70059386	12	SHIM, bearing adjustment (.010" thick. Use as required)
	70059385	4	SHIM, bearing adjustment (.032" thick. Use as required)
10	70067141	4	RETAINER, bearing
11	70035018	24	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	24	LOCKWASHER, 1/2"
12	70051623	4	RING, seal, outer (See item 34)
13	70051959	4	SPRING ASSEMBLY, seal (Serviced only as a unit)
14	70051629	4	BOOT, seal
15	70099506	4	RETAINER, seal
16	70034042	2	PLUG, shaft oil hole (Used prior to tractor #5109)
17	70034043	2	GASKET, oil hole plug (Used prior to tractor #5109)
18	70099503	2	BRACKET ASSEMBLY, left (Includes item 24)(Used prior to tractors #5701 on HD16A, AC; #5655 on HD16D, DC; #5632 on HD16FC; #5616 on HD16GC)
	70631291	2	BRACKET ASSEMBLY, left (Includes item 24)(Effective with tractors #5701 on HD16A, AC; #5655 on HD16D, DC; #5632 on HD16FC; #5616 on HD16GC)
19	70638796	4	CAPSCREW, 5/8"NF x 5"
20	70072366	4	NUT, high, 5/8"NF
21	70099504	2	BRACKET ASSEMBLY, right (Includes item 24)(Used prior to tractors #5701 on HD16A, AC; #5655 on HD16D, DC; #5632 on HD16FC; #5616 on HD16GC)
	70631292	2	BRACKET ASSEMBLY, right (Includes item 24)(Effective with tractors #5701 on HD16A, AC; #5655 on HD16D, DC; #5632 on HD16FC; #5616 on HD16GC)
22	70638796	4	CAPSCREW, 5/8"NF x 5"
23	70072366	4	NUT, high, 5/8"NF

(Continued)

TRACK IDLER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
24	70056585	4	PIN, dowel, idler bracket to release yoke
25	70077754	4	PLATE, guide (6" high. Used with BRACKETS 70099503 or 70099504 only)
	70638957	4	
26	70035014	24	CAPSCREW, 5/8"NF x 1-1/2"
27	70078984	8	SHIM, guide plate (1/32" thick. Use as required)
	70078985	4	
28	70081405	2	GUARD, left
29	70035014	6	CAPSCREW, 5/8"NF x 1-1/2"
	70904209	6	
30	70081406	2	GUARD, right
31	70035014	6	CAPSCREW, 5/8"NF x 1-1/2"
	70904209	6	
32	70033288	-	CEMENT, neoprene, 1/2 pint can
33	70054890	-	SOLVENT, neoprene cement, 1/2 pint can
			} For cementing seal boots
34	70083209	2	SEAL KIT (Includes parts for one (1) idler only; items 6, 7, 8 and 12)

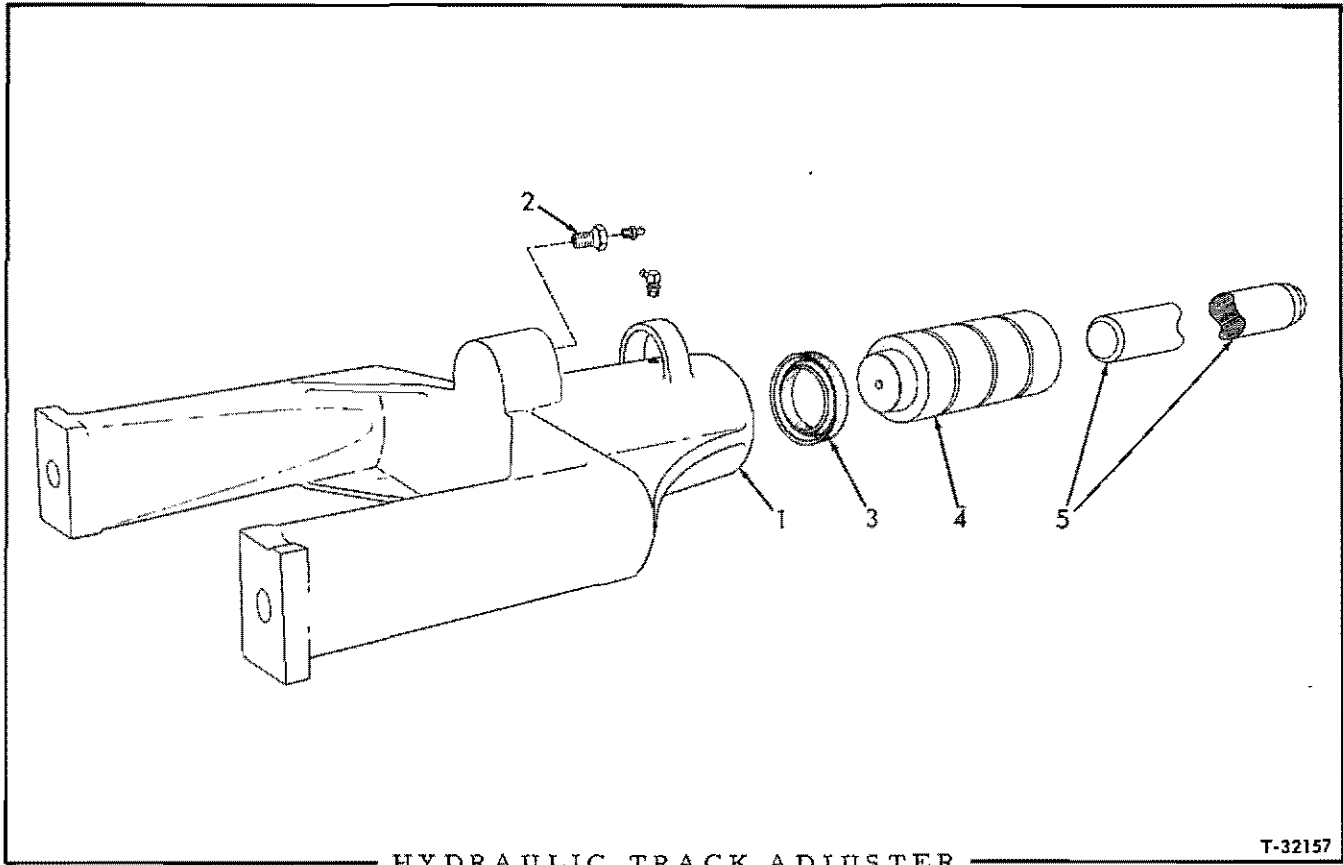


TRACK RELEASE

T-4289

TRACK RELEASE

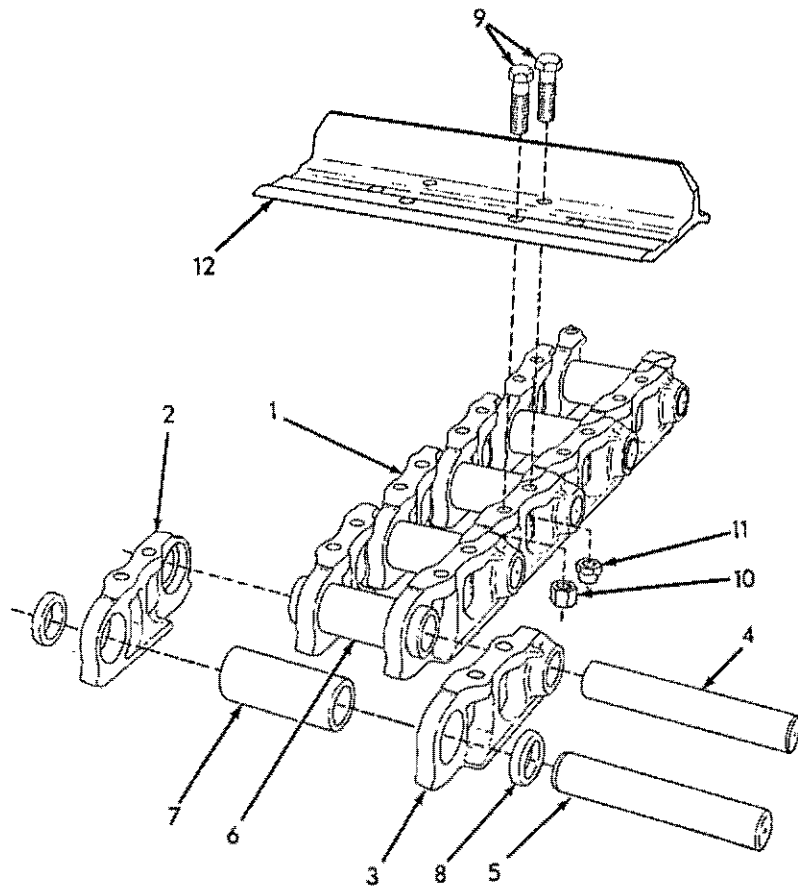
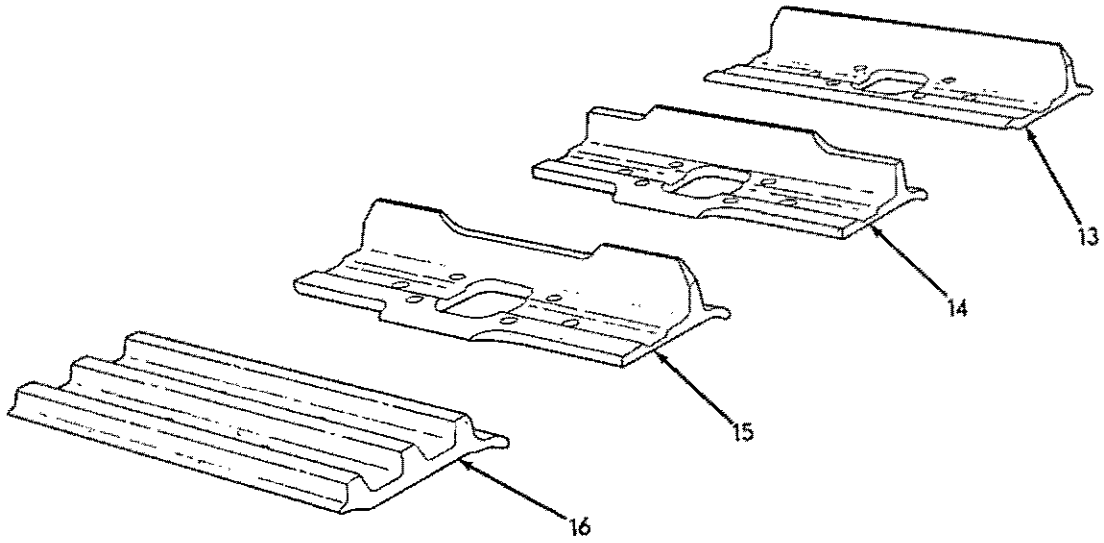
ITEM	PART NO.	QTY.	DESCRIPTION
1	70059735	2	YOKE
	70914465	2	FITTING, lubricating, straight, 1/8"NPT
	70910011	2	PLUG, expansion, 2-1/2" diam. (Early units)
2	70059730	2	SCREW, adjustment (12-1/4" long)(Models HD16A, AC)
	70079660	2	SCREW, adjustment (24" long)(Model HD16D, DC, FC)
	70095278	2	SCREW, adjustment (31-3/4" long)(Model HD16GC)
3	70056614	2	LOCK, adjustment screw
	70914465	2	FITTING, lubricating, straight, 1/8"NPT
4	70035067	4	CAPSCREW, 1/2"NF x 2"
	70904208	4	LOCKWASHER, 1/2"
5	70066068	2	SEAL, protecting, adjustment screw threads (rubber)
6	70096630	2	BRACKET, supporting, adjustment screw (Model HD16GC effective with tractor #2739. Also Models HD16D, DC and FC effective with tractor #3035)
7	70023618	4	CAPSCREW, 5/8"NF x 2-1/2"
	70904209	4	LOCKWASHER, 5/8"
8	70093431	2	BLOCK, mounting, adjustment screw bracket (Model HD16GC effective with tractor #2739. Also Models HD16D, DC and FC effective with tractor #3035)
9	70035229	2	CAPSCREW, 5/8"NF x 2"
	70904209	2	LOCKWASHER, 5/8"
10	-----	2	CROSSHEAD (Used prior to tractor #5068)(Order CROSSHEAD 70621299 and 2 O-RINGS 70621301)
	70621299	2	CROSSHEAD (Effective with tractor #5068)
11	70041076	2	SEAL, crosshead (square section)(Used prior to tractor #5068)
	70923827	4	O-RING, crosshead (circular section)(Effective with tractor #5068)
12	70059736	2	GUIDE, crosshead
13	70023618	14	CAPSCREW, 5/8"NF x 2-1/2"
	70904209	4	LOCKWASHER, 5/8"
14	70072366	10	NUT, high, 5/8"NF
15	70059742	2	GASKET, crosshead guide
16	70059731	4	ROD, push
17	70051798	4	PIN, push rod
18	70622566	2	BELLCRANK
19	70059737	2	PIN, bellcrank pivot
20	70059740	2	PLUNGER, spring
21	70059713	2	SPRING
22	70059741	2	SEAT, spring
23	70059739	2	CAPSCREW, spring adjustment
24	70059738	2	LOCK, spring adjustment capscREW
25	70059599	2	BLOCK, mounting, crosshead guide
26	70035073	2	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	2	LOCKWASHER, 1/2"



USAGE: Special Equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	70624207	2	YOKE ASSEMBLY (Includes items 2 thru 4 and FITTING indented below)
	70915275	2	FITTING, lubricating, 65°, 1/8"NPT
2	70628915	2	VALVE ASSEMBLY, relief (Serviced only as a unit)
	70918188	2	FITTING, 90°, 1/4" tapered thread (pressurizing)(Used prior to tractor #5741)
	70912808	2	FITTING, straight, 1/4" tapered thread (pressurizing)(Effective with tractor #5741)
3	70628937	2	SEAL, piston
4	70628936	2	PISTON, adjusting
5	70628104	2	BAR, push (9-3/4" long)(For Models HD16A, AC)
	70628105	2	BAR, push (21-1/2" long)(For Models HD16D, DC, FC)
	70628106	2	BAR, push (29-3/8" long)(For Model HD16GC)

MEMO



TRACK (First Type)

T-10684

TRACK

USAGE: Tractors prior to serial No. 2727 excluding No. 2495, 2515, 2529 and 2533 (2-1/2" O.D. bushings)

* Models HD16A, AC
 ** Model HD16FC
 *** Model HD16GC

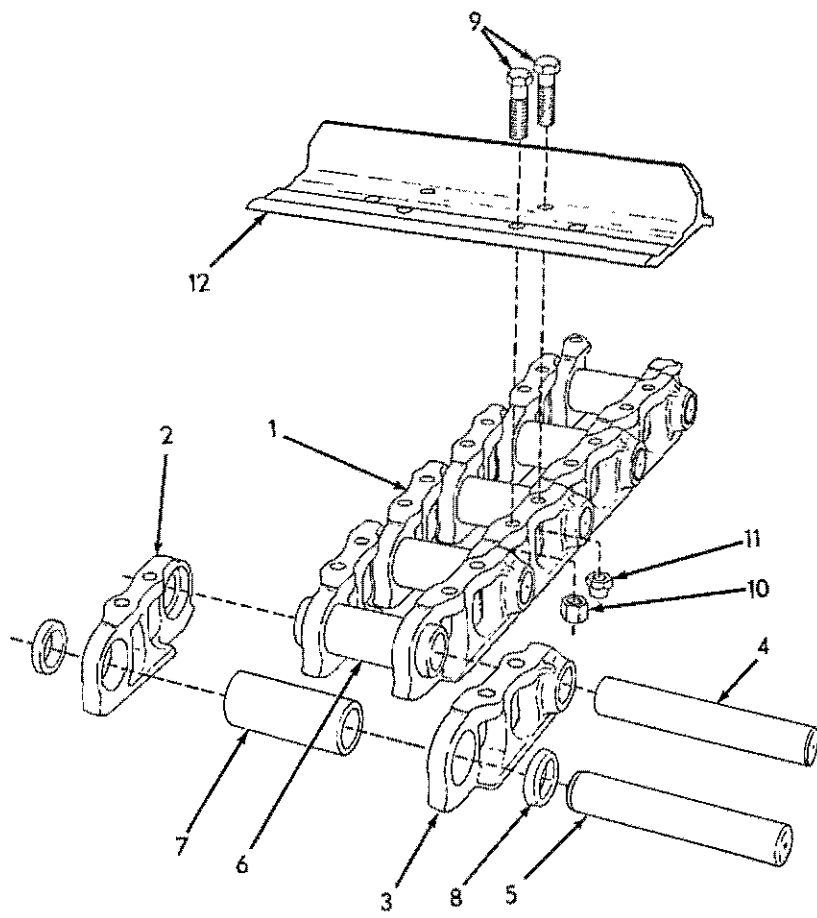
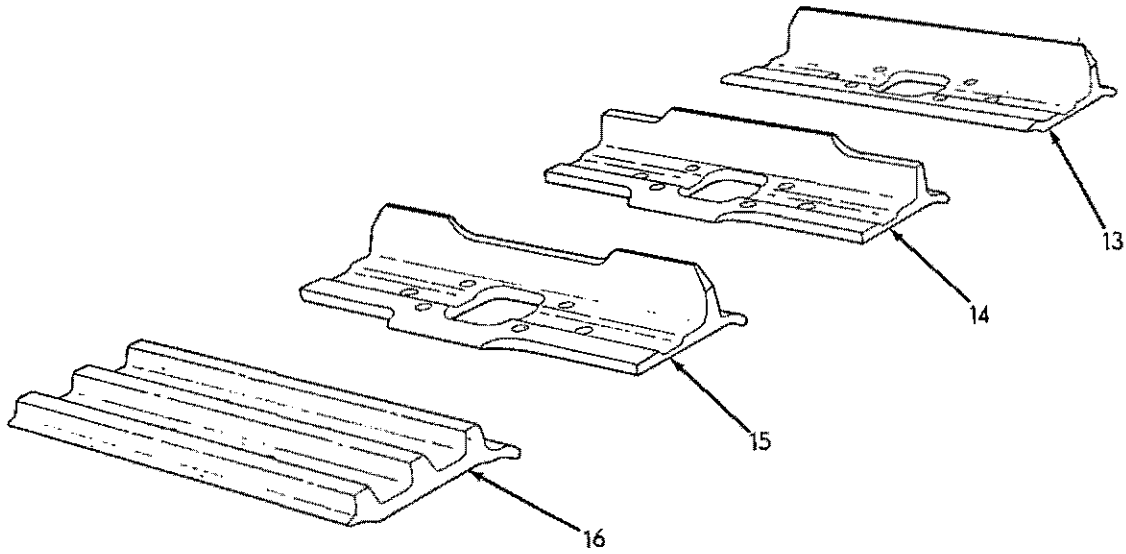
ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	-----	2	-	-	RAIL ASSEMBLY (38 links)(Order RAIL ASSY. 70094807 and SPROCKET RIM 70629271)
	-----	-	2	-	RAIL ASSEMBLY (41 links)(Order RAIL ASSY. 70094776 and SPROCKET RIM 70629271)
	-----	-	-	2	RAIL ASSEMBLY (43 links)(Order RAIL ASSY. 70094695 and SPROCKET RIM 70629271)
2	70078857	76	82	86	BAR, left
3	70078858	76	82	86	BAR, right
4	70079546	74	80	84	PIN (9-3/8" long)
5	70621297	2	2	2	PIN, master (9-13/16" long)
6	70086447	74	80	84	BUSHING, (6-13/16" long)
7	70079548	2	2	2	BUSHING, master (5-3/4" long)
8	70086533	4	4	4	SPACER, master bushing
9	70097324	304	328	344	BOLT, track shoe (3/4"NF x 2-1/2")
10	70083617	152	164	172	NUT, high, 3/4"NF
11	70083623	152	164	172	NUT (tapered, 3/4"NF)

TRACK SHOES

NOTE: Track shoes over 20" wide cannot be used on Model HD16GC.

12	70032386	76	82	86	SHOE, grouser, 18"
	70031729	76	82	86	SHOE, grouser, 20"
	70033120	76	82	--	SHOE, grouser, 22"
	70031731	76	82	--	SHOE, grouser, 24"
	70060887	76	82	--	SHOE, grouser, 26"
	70631182	76	82	--	SHOE, grouser, 28"
	70620911	38	41	--	SHOE, grouser, left side, 28" (offset 2")
	70620912	38	41	--	SHOE, grouser, right side, 28" (offset 2")
13	70032385	76	82	86	SHOE, grouser, cut-out, 18"
	70032546	76	82	86	SHOE, grouser, cut-out, 20"
	70033114	76	82	--	SHOE, grouser, cut-out, 22"
	70043422	76	82	--	SHOE, grouser, cut-out, 24"
14	70099141	38	40	42	SHOE, grouser, snow and ice, single calk, cut-out, 20"
15	70099142	38	42	44	SHOE, grouser, snow and ice, double calk, cut-out, 20"
16	70078971	76	82	86	SHOE, semi-grouser, 20"
	70099814	76	82	86	SHOE, semi-grouser, cut-out, 22"

NOTE: Complete TRACK ASSEMBLIES with SHOES are available only as listed on page 455. Such tracks have a larger diameter bushing and require use of new track sprocket (SPROCKET 70629072 or SPROCKET RIM 70629271)



TRACK (Second type)

T-10684

TRACK

USAGE: Effective with tractor serial No. 2727 including Nos. 2495, 2515, 2529 and 2533
(2-5/8" O.D. bushings)

* Models HD16A, AC
** Models HD16D, DC, FC
*** Model HD16GC

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70094807	2	-	-	RAIL ASSEMBLY (38 links)(Consists of items 2 thru 8)
	70094776	-	2	-	RAIL ASSEMBLY (41 links)(Consists of items 2 thru 8)
	70094695	-	-	2	RAIL ASSEMBLY (43 links)(Consists of items 2 thru 8)
2	70094729	76	82	86	BAR, left
3	70094730	76	82	86	BAR, right
4	70079546	74	80	84	PIN (9-3/8" long)
5	70621297	2	2	2	PIN, master (9-3/8" long)
6	70094723	74	80	84	BUSHING (6-13/16" long)
7	70094727	2	2	2	BUSHING, master (5-3/4" long)
8	70095235	4	4	4	SPACER, master bushing
9	70097324	304	328	344	BOLT, track shoe (3/4"NF x 2-1/2")
10	70083617	152	164	172	NUT, high, 3/4"NF
11	70083623	152	164	172	NUT (tapered, 3/4"NF)

TRACK SHOES

COMPLETE TRACK ASSEMBLIES

WITH SHOES (2 Required)

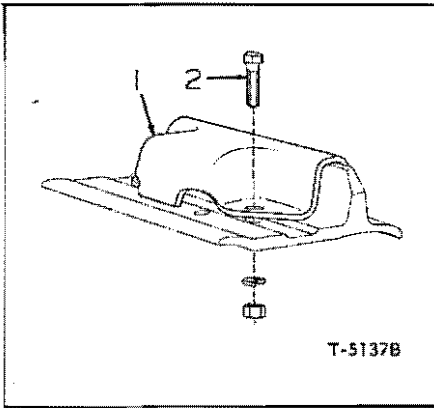
NOTE: Track shoes over 20" wide cannot be used on Model HD16GC

		*	**	***	
12	70032386	76	82	86	SHOE, grouser, 18"
	70031729	76	82	86	SHOE, grouser, 20" 094733
	70033120	76	82	86	SHOE, grouser, 22" 094796 . . . 094774
	70031731	76	82	86	SHOE, grouser, 24" 094784 . . . 094768
	70060887	76	82	86	SHOE, grouser, 26"
	70631182	76	82	--	SHOE, grouser, 28" 631197
	70620911	38	41	--	SHOE, grouser, left side, 28" (offset 2")
	70620912	38	41	--	SHOE, grouser, right side, 28"(offset 2")
13	70032385	76	82	86	SHOE, grouser, cut-out, 18"
	70032546	76	82	86	SHOE, grouser, cut-out, 20"
	70033114	76	82	86	SHOE, grouser, cut-out, 22"
	70043422	76	82	86	SHOE, grouser, cut-out, 24"
14	70099141	38	40	42	SHOE, grouser, snow and ice, single calk, cut-out, 20"
15	70099142	38	42	44	SHOE, grouser, snow and ice, double calk, cut-out, 20"
16	70078971	76	82	86	SHOE, semi-grouser, 20"
	70099814	76	82	86	SHOE, semi-grouser, cut-out, 22"

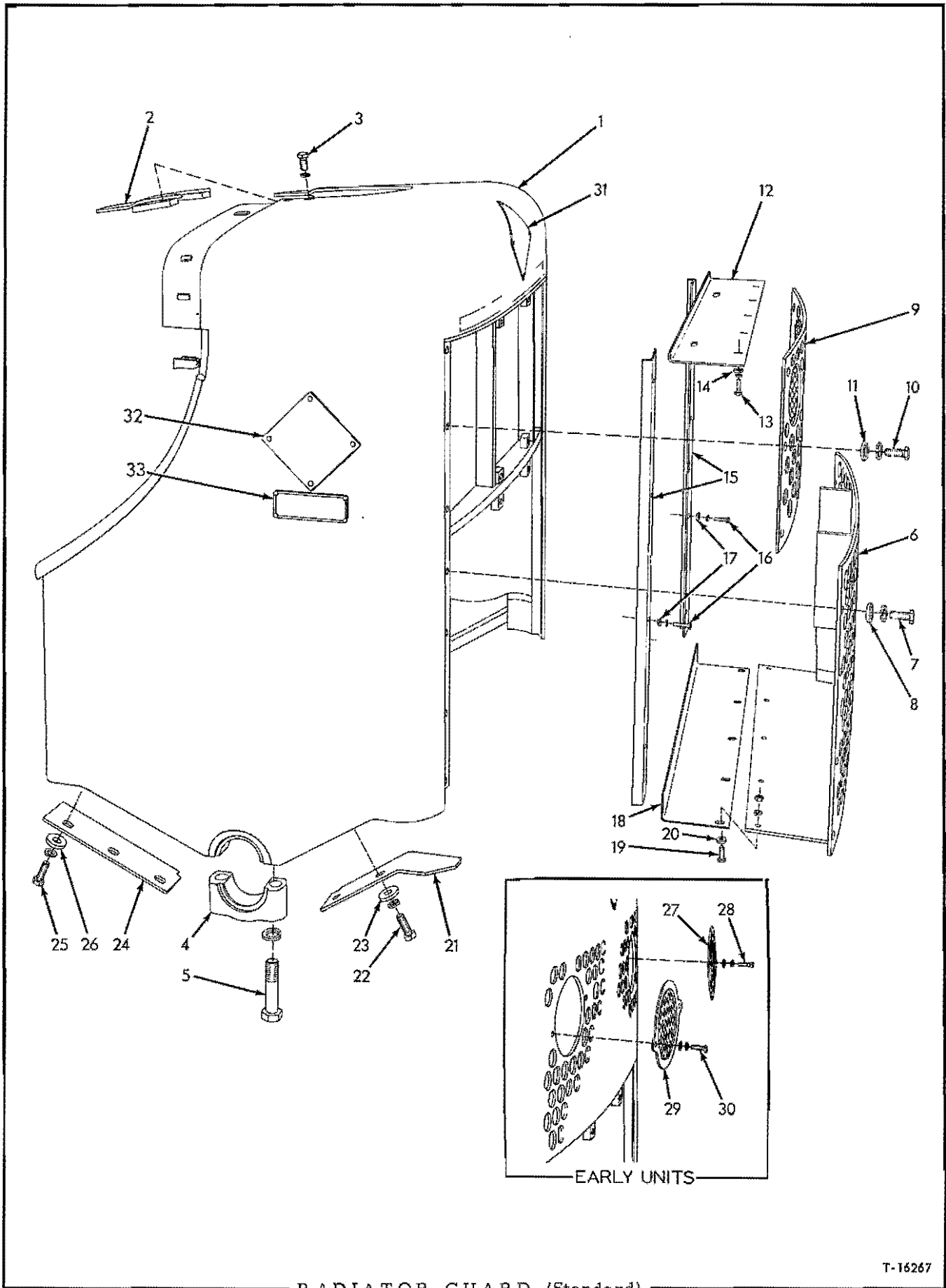
NOTE: Complete TRACK ASSEMBLIES with SHOES are furnished only in sizes and types as listed. Assemblies other than those listed may be made up in the field by ordering the various components.

STREET PLATES

USAGE: Special equipment



ITEM	PART NO.	QTY.	DESCRIPTION
			<u>NOTE:</u> Quantities indicated are for one (1) track shoe only .
1	70052592	1	PLATE, street
2	70012453	2	CAPSCREW, street plate (3/4" NF x 2")
	70904369	2	LOCKWASHER, 3/4"
	70911045	2	NUT, 3/4" NF



RADIATOR GUARD (Standard)

T-16267

RADIATOR GUARD

USAGE: Standard Equipment on all models except HD16GC. See following pages for optional designs.

* Used prior to tractor serial No. 2733
 ** Effective with tractor serial No. 2733

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	-----	1 -	GUARD ASSY., radiator (Order 1 each GUARD ASSY, 70093231, PLATE 70093183, BAFFLE 70093224, CABLE 70093190, CABLE 70093196, CONNECTOR 70048142; 2 each GROMMET 70044810, GROMMET 70083683, CLIP 70235794, 1 CABLE 70093176, BRACKET 70093195; 4 each CAPSCREW 70203188, LOCKWASHER 70904206, WASHER 70911115; 20 each WASHER 70064810 and LOCKWASHER 70904209)
	70093231	- 1	GUARD ASSEMBLY, radiator (Includes items 2 thru 5)
2	70084413	1 1	PLATE, top closure
3	70070590	4 4	CAPSCREW, 5/8"NF x 1-1/8"
	70904209	4 4	LOCKWASHER, 5/8"
4	70085365	2 2	CAP, guard pivot
5	70038203	4 4	CAPSCREW, 1"NF x 4-1/2"
	70910916	4 4	LOCKWASHER, 1"
6	70084739	1 -	PLATE, front closure, lower (9-bolt type) (Used prior to tractor #972)
	70088905	1 -	PLATE, front closure, lower (10-bolt type) (Effective with tractor #972)
	70093178	- 1	PLATE, front closure, lower
7	70036707	- 10	CAPSCREW, 5/8"NC x 1-3/4" (Effective with tractor #3044)
	70023465	10 10	CAPSCREW, 5/8"NF x 1-3/4" (Used prior to tractor #3044)
	70904209	10 10	LOCKWASHER, 5/8"
8	70064810	10 10	WASHER, plain
9	70093183	- 1	PLATE, front closure, upper
10	70023465	- 10	CAPSCREW, 5/8"NF x 1-3/4" (Used prior to tractor #3044)
	70036707	- 10	CAPSCREW, 5/8"NC x 1-3/4" (Effective with tractor #3044)
	70904209	- 10	LOCKWASHER, 5/8"
11	70064810	- 10	WASHER, plain
12	70084989	1 -	BAFFLE, air, upper
	70093224	- 1	BAFFLE, air upper
13	70012992	5 5	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	5 5	LOCKWASHER, 3/8"
14	70044973	5 5	WASHER, plain

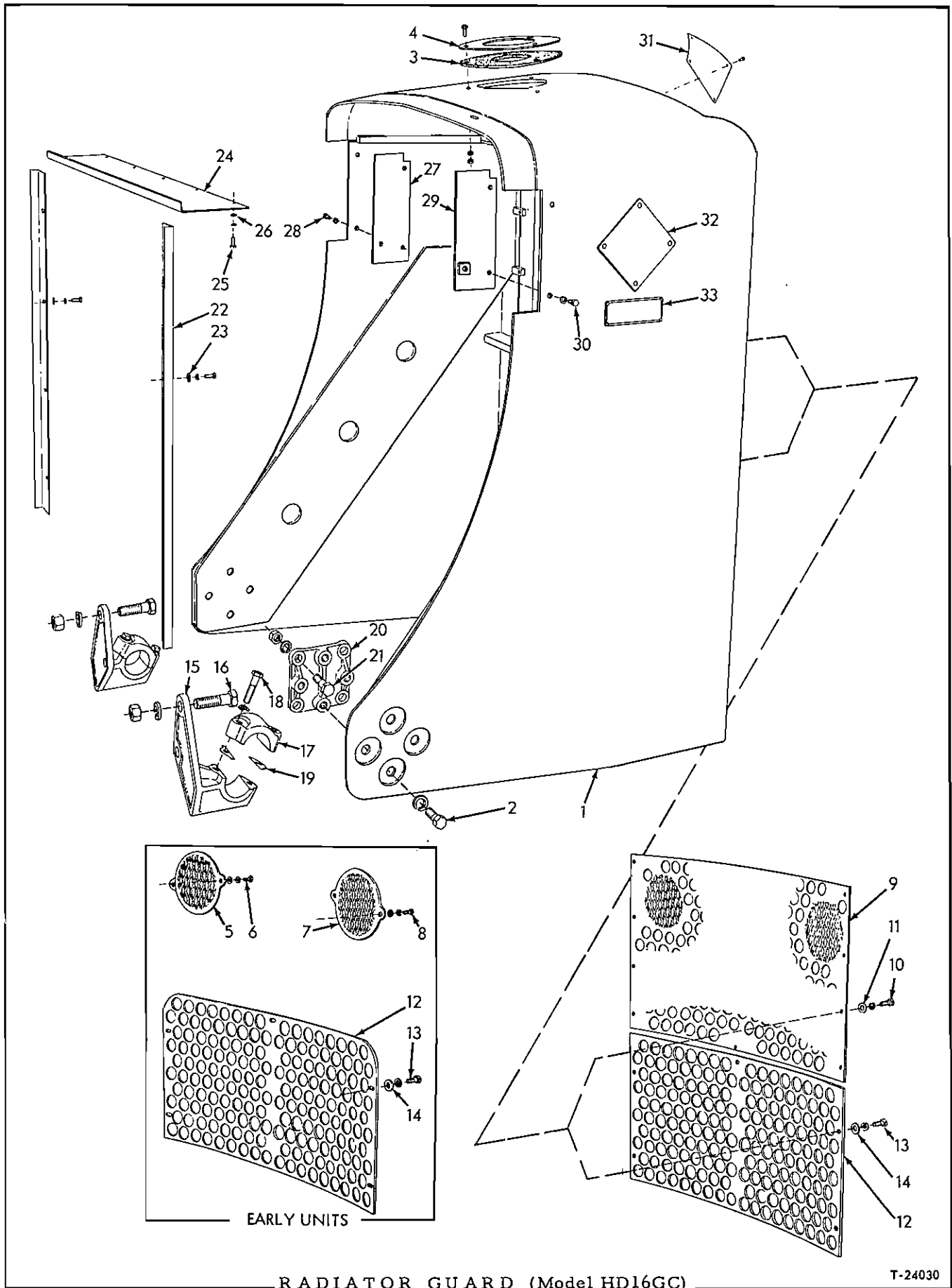
1 less used prior to tractor #972

(Continued)

RADIATOR GUARD (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
15	70084655	2	2	BAFFLE, air, side (attached to radiator)
16	70043646	8	8	CAPSCREW, 5/16"NF x 1-1/4" (Used prior to tractor #4001)
	70911168	-	8	CAPSCREW, 5/16"NF x 7/8" (Effective with tractor #4001)
	70904205	8	8	LOCKWASHER, 5/16"
17	70092665	8	8	WASHER, plain
18	70084988	1	-	BAFFLE, air, lower (Used prior to tractor #972)
	70088044	1	1	BAFFLE, air, lower (Effective with tractor #972)
19	70012992	5	5	CAPSCREW, 3/8"NF x 1-1/4"
20	70044973	5	5	WASHER, plain
	70904206	5	5	LOCKWASHER, 3/8"
	70911041	5	5	NUT, 3/8"NF
21	70098097	1	1	PLATE, bottom closure, left front
	70098098	1	1	PLATE, bottom closure, right front
22	70035229	4	4	CAPSCREW, 5/8"NF x 2"
	70904209	4	4	LOCKWASHER, 5/8"
23	70064810	4	4	WASHER, plain
24	70084979	2	2	PLATE, bottom closure, rear
25	70035229	6	6	CAPSCREW, 5/8"NF x 2"
	70904209	6	6	LOCKWASHER, 5/8"
26	70064810	6	6	WASHER, plain
27	70088819	1	-	PLATE, guard, left headlight (Effective with tractor #1628)
28	70012992	2	-	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	-	LOCKWASHER, 3/8"
	70911115	2	-	WASHER, plain, SAE std., 3/8"
29	70088820	1	-	PLATE, guard, right headlight (Effective with tractor #1628)
30	70012992	2	-	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	-	LOCKWASHER, 3/8"
	70911115	2	-	WASHER, plain, SAE std., 3/8"
31	70623525	1	1	MONOGRAM, "A-C", front
	70918370	4	4	RIVET, drive, 3/16" x 9/32" (Not original equipment)
32	70623524	2	2	MONOGRAM, "A-C", side
	70918370	8	8	RIVET, drive, 3/16" x 9/32" (Not original equipment)
33	70623502	2	2	MONOGRAM, "HD16"
	70918730	8	8	RIVET, drive, 3/16" x 9/32" (Not original equipment)

MEMO



RADIATOR GUARD

USAGE: Model HD16GC

* Used prior to tractor serial No. 4001
 ** Effective with tractor serial No. 4001

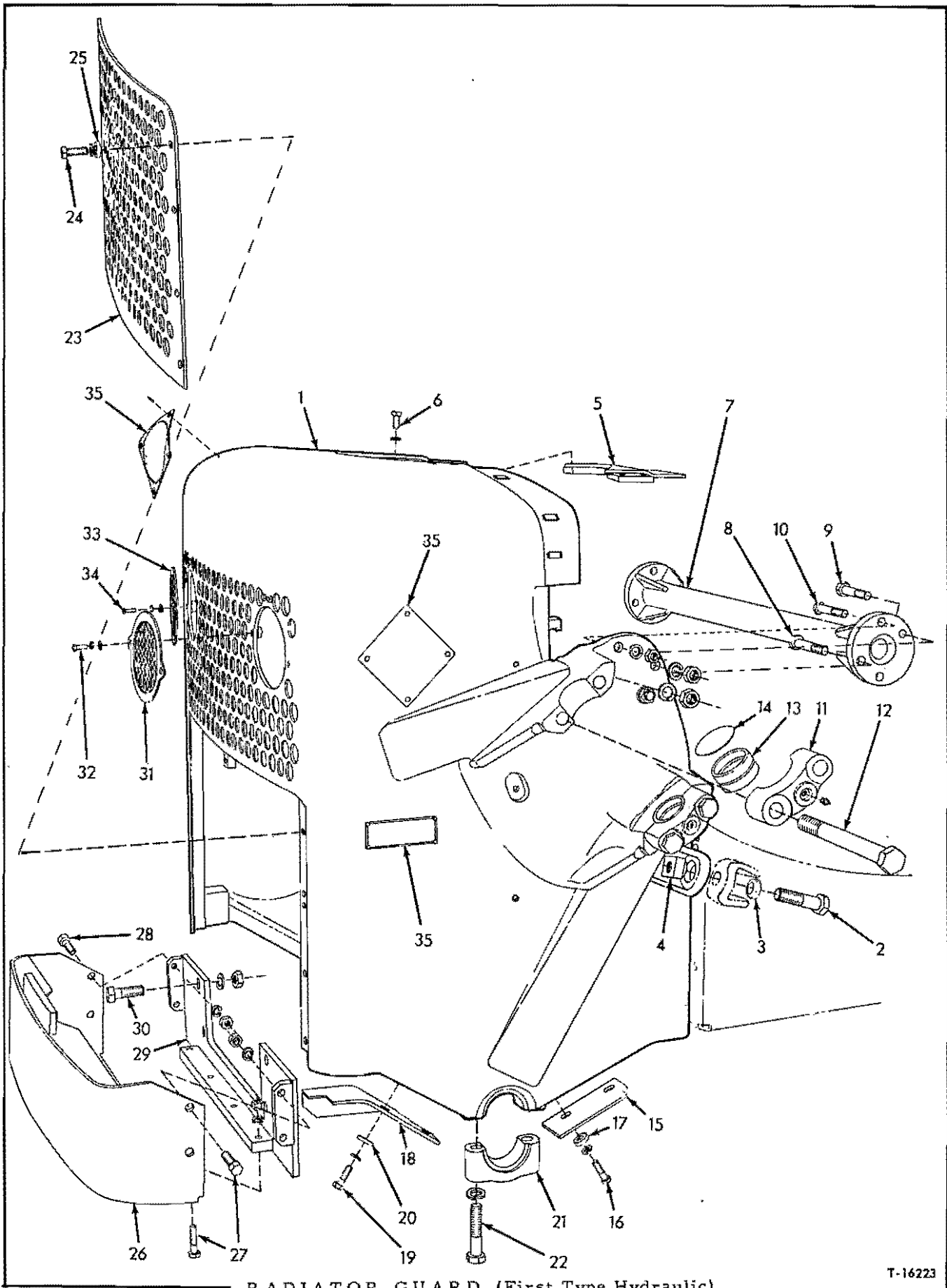
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	-----	1	-	GUARD ASSY., radiator (Order 1 each GUARD ASSY. 70093398, PLATE 70093373, CABLE 70093190, CABLE 70093196, CABLE 70093176, CONNECTOR 70048142; 2 each BRACKET 70093195, CLIP 70235794; 4 each CAPSCREW 70203188, WASHER 70044973, LOCKWASHER 70904206; 10 each WASHER 70064531 and LOCKWASHER 70904208)
	70093398	-	1	GUARD ASSEMBLY, radiator (Includes items 10, 13 and 33)
2	70072595	8	8	CAPSCREW, 3/4"NF x 1-3/4"
	70904369	8	8	LOCKWASHER, 3/4"
3	70089481	1	1	SEAL, radiator neck
4	70089482	1	1	PLATE, seal retaining
	70905657	3	3	CAPSCREW, 1/4" x 1"
	70904204	3	3	LOCKWASHER, 1/4"
	70911024	3	3	NUT, 1/4"NC
5	70088819	1	-	PLATE, guard, left headlight
6	70012992	2	-	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	-	LOCKWASHER, 3/8"
	70911115	2	-	WASHER, plain, SAE std., 3/8"
7	70088820	1	-	PLATE, guard, right headlight
8	70012992	2	-	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	-	LOCKWASHER, 3/8"
	70911115	2	-	WASHER, plain, SAE std., 3/8"
9	70093373	-	1	PLATE, front closure, upper
10	70035733	-	10	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	-	10	LOCKWASHER, 1/2"
11	70064531	-	10	WASHER, plain
12	70086436	1	-	PLATE, front closure, lower
	70093319	-	1	PLATE, front closure, lower
13	70614478	5	-	CAPSCREW, 1/2"NF x 1-3/8"
	70035733	-	5	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	5	5	LOCKWASHER, 1/2"
14	70064531	5	5	WASHER, plain
15	70087105	1	1	BRACKET ASSEMBLY, guard pivot, left (Includes items 17 thru 19)
	70087106	1	1	BRACKET ASSEMBLY, guard pivot, right (Includes items 17 thru 19)
16	70035420	4	4	CAPSCREW, 1"NF x 3-1/4"
	70910916	4	4	LOCKWASHER, 1"
	70911047	4	4	NUT, 1"NF
17	-----	2	2	CAP, pivot bracket (Not serviced separately)
18	70023618	4	4	CAPSCREW, 5/8"NF x 2-1/2"
	70904209	4	4	LOCKWASHER, 5/8"

(Continued)

RADIATOR GUARD (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
19	70087104	12	12	SHIM, pivot bracket cap (Use as req'd)
20	70087761	2	2	BRACKET, guard mounting
21	70070285	8	8	CAPSCREW, 3/4"NF x 3"
	70904369	8	8	LOCKWASHER, 3/4"
	70911045	8	8	NUT, 3/4"NF
22	70090498	2	2	BAFFLE, air, side (attached to radiator) (Effective with tractor #1495)
	70911168	8	8	CAPSCREW, 5/16"NF x 7/8"
	70904205	8	8	LOCKWASHER, 5/16"
23	70092665	8	8	WASHER, plain
24	70090867	1	1	BAFFLE, air, top
25	70057927	5	5	CAPSCREW, 5/16"NF x 3/4"
	70904205	5	5	LOCKWASHER, 5/16"
26	70092665	5	5	WASHER, plain
27	70087089	1	1	PLATE, hood strap, left
28	70036032	2	2	CAPSCREW, 3/8"NF x 3/4"
	70904206	2	2	LOCKWASHER, 3/8"
29	70087090	1	1	PLATE, hood strap, right
30	70036032	2	2	CAPSCREW, 3/8"NF x 3/4"
	70904206	2	2	LOCKWASHER, 3/8"
31	70623525	1	1	MONOGRAM, "A-C", front
	70918370	4	4	RIVET, drive, 3/16" x 9/32" (Not original equipment)
32	70623524	2	2	MONOGRAM, "A-C", side
	70918370	8	8	RIVET, drive, 3/16" x 9/32" (Not original equipment)
33	70623505	2	2	MONOGRAM, "HD16G"
	70918370	8	8	RIVET, drive, 3/16" x 9/32" (Not original equipment)

MEMO



RADIATOR GUARD (First Type Hydraulic)

T-16223

RADIATOR GUARD

USAGE: Models HD16A, AC equipped with hydraulic dozer used prior to tractor serial No. 2302, including No. 2388

ITEM	PART NO.	QTY.	DESCRIPTION
1	70090227	1	GUARD ASSEMBLY, radiator (Includes items 5, 6, 11, 12, 21, 22, 31 thru 35 and set of swing-out head light brackets)
2	70089231	2	CAPSCREW, guard supporting (Effective with tractor #1510)
3	70089229	2	WASHER, spherical
4	70089230	2	NUT, spherical
5	70084413	1	PLATE, top closure
6	70070590	4	CAPSCREW, 5/8"NF x 1-1/8"
	70904209	4	LOCKWASHER, 5/8"
7	70085573	1	TUBE, bracing
8	70085569	2	CAPSCREW, 7/8"NF x 4-3/4"
9	70085568	2	CAPSCREW, 7/8"NF x 4"
	70905347	4	LOCKWASHER, 7/8"
	70911046	4	NUT, 7/8"NF
10	70035422	4	CAPSCREW, 3/4"NF x 4"
	70904369	4	LOCKWASHER, 3/4"
	70911045	4	NUT, 3/4"NF
11	70085140	4	CAP, trunnion
	70914465	4	FITTING, lubricating, straight, 1/8"NPT
12	70070861	8	CAPSCREW, 1"NF x 10-1/2"
	70600236	8	NUT, high, 1"NF
13	70084581	4	BUSHING, trunnion
14	70084612	4	PLATE, retaining, trunnion bushing
15	70084979	2	PLATE, bottom closure, rear
16	70035229	6	CAPSCREW, 5/8"NF x 2"
	70904209	6	LOCKWASHER, 5/8"
17	70064810	6	WASHER, plain
18	70098095	1	PLATE, bottom closure, left front
	70098096	1	PLATE, bottom closure, right front
19	70035229	4	CAPSCREW, 5/8"NF x 2"
	70904209	4	LOCKWASHER, 5/8"
20	70064810	4	WASHER, plain
21	70085365	2	CAP, guard pivot
22	70038203	4	CAPSCREW, 1"NF x 4-1/2"
	70910916	4	LOCKWASHER, 1"
23	70609479	1	PLATE, front closure, lower
24	70023465	9	CAPSCREW, 5/8"NF x 1-3/4"
	70904209	9	LOCKWASHER, 5/8"
25	70064810	9	WASHER, plain

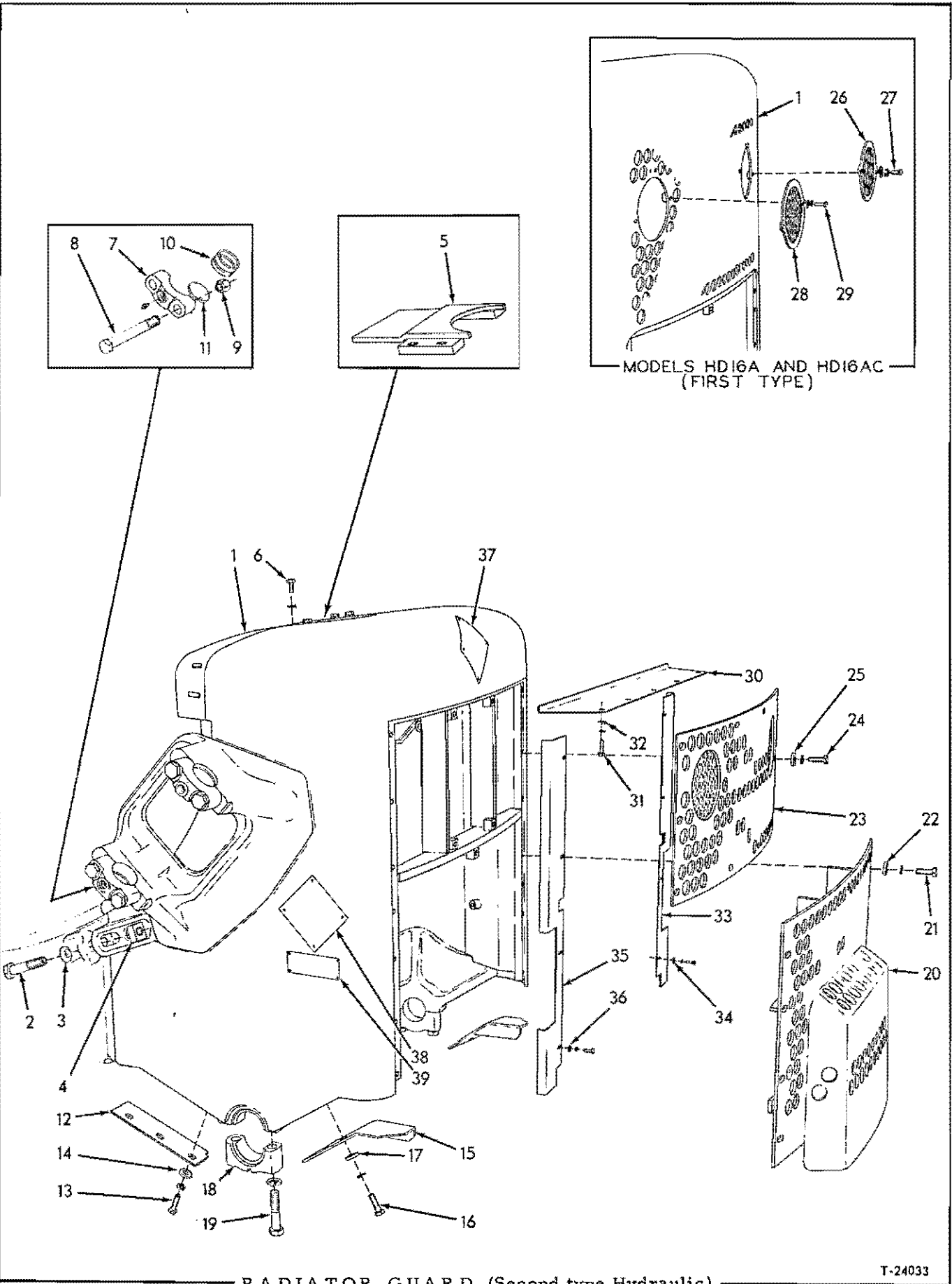
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RADIATOR GUARD (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
26	70609474	1	GUARD, pump protecting
27	70023755	6	CAPSCREW, 5/8"NC x 2-1/4"
28	70037573	2	CAPSCREW, 5/8"NC x 2-3/4"
	70904209	8	LOCKWASHER, 5/8"
	70911029	8	NUT, 5/8"NC
29	70609470	1	BRACKET, pump guard mounting
30	70070272	4	CAPSCREW, 1"NF x 3"
	70910916	4	LOCKWASHER, 1"
	70911047	4	NUT, 1"NF
31	70088819	1	PLATE, guard, left headlight (Effective with tractor #1628)
32	70012992	2	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	LOCKWASHER, 3/8"
	70911115	2	WASHER, plain,SAE std., 3/8"
33	70088820	1	PLATE, guard, right headlight (Effective with tractor #1628)
34	70012992	2	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	LOCKWASHER, 3/8"
	70911115	2	WASHER, plain, SAE std., 3/8"
35	70623525	1	MONOGRAM, "A-C", front
	70623524	2	MONOGRAM, "A-C", side
	70623502	2	MONOGRAM, "HD16"
	70918370	20	RIVET, drive, 3/16" x 9/32" (Not original equipment)

MEMO





RADIATOR GUARD

USAGE: Tractors equipped with hydraulic dozer

* Model HD16A, AC tractors serial #2302 thru #4137, excluding #2388
 ** All Models HD16D, DC; also Models HD16A, AC, effective with
 tractor serial #4138

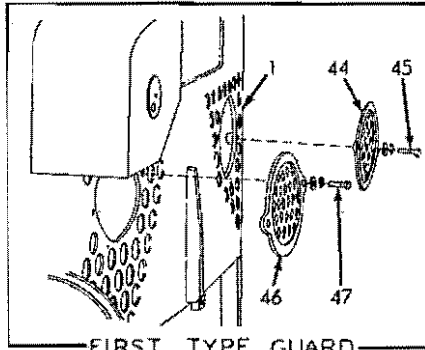
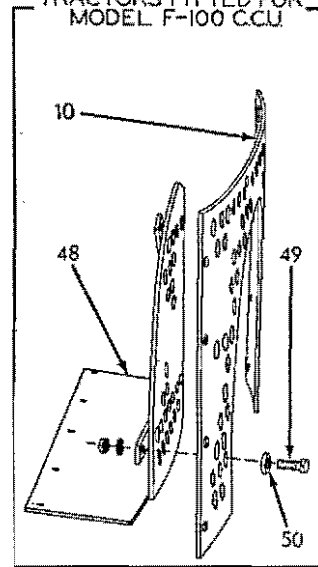
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	-----	1	-	GUARD ASSY., radiator (Order 1 each GUARD ASSY. 70092908, BAFFLE 70093225, PLATE 70093183, CABLE 70093190, CABLE 70093196, CONNECTOR 70048142, TUBE 70617285, TUBE 70617286, TUBE 70617295, TUBE 70617296; 2 each CABLE 70093176, GROMMET 70044810, GROMMET 70083683, CLIP 70235794, BRACKET 70093195, TRUNNION ASSY. 70617224, TUBE 70617866, FITTING 70617864, HOSE 70614528, HOSE 70612975; 4 each CAPSCREW 70035336, WASHER 70911115 LOCKWASHER 70904206; 19 each WASHER 70064810 and LOCKWASHER 70904209)
	70092908	-	1	GUARD ASSEMBLY, radiator (Includes items 5 thru 9, 18, 19, 21, 24 and 39)
2	70089231	2	2	CAPSCREW, guard supporting
3	70089229	2	2	WASHER, spherical
4	70089230	2	2	NUT, spherical
5	70084413	1	1	PLATE, top closure
6	70070590	4	4	CAPSCREW, 5/8"NF x 1-1/8"
	70904209	4	4	LOCKWASHER, 5/8"
7	70085140	4	4	CAP, trunnion
	70914465	4	4	FITTING, lubricating, straight, 1/8"NPT
8	70070861	8	8	CAPSCREW, 1"NF x 10-1/2"
9	70600236	8	8	NUT, high, 1"NF
10	70084581	4	4	BUSHING, trunnion
11	70084612	4	4	PLATE, retaining, trunnion bushing
12	70084979	2	2	PLATE, bottom closure, rear
13	70035229	6	6	CAPSCREW, 5/8"NF x 2"
	70904209	6	6	LOCKWASHER, 5/8"
14	70064810	6	6	WASHER, plain
15	70098095	1	1	PLATE, bottom closure, left front
	70098096	1	1	PLATE, bottom closure, right front
16	70035229	4	4	CAPSCREW, 5/8"NF x 2"
	70904209	4	4	LOCKWASHER, 5/8"
17	70064810	4	4	WASHER, plain
18	70085365	2	2	CAP, guard pivot
19	70038203	4	4	CAPSCREW, 1"NF x 4-1/2"
	70910916	4	4	LOCKWASHER, 1"

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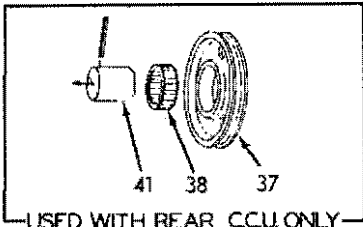
RADIATOR GUARD (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
20	70614193	1	-	PLATE, front closure, lower
	70631664	-	1	PLATE, front closure, lower
	70093178	-	1	PLATE, front closure, lower (Permits use of front bumper when hydraulic pump is not installed)
21	70023465	9	9	CAPSCREW, 5/8"NF x 1-3/4" (Early units)
	70036707	9	9	CAPSCREW, 5/8"NC x 1-3/4" (Late units)
	70904209	9	9	LOCKWASHER, 5/8"
22	70064810	9	9	WASHER, plain
23	70093183	-	1	PLATE, front closure, upper
24	70023465	-	10	CAPSCREW, 5/8"NF x 1-3/4" (Early units on HD16D, DC)
	70036707	-	10	CAPSCREW, 5/8"NC x 1-3/4"
	70904209	-	10	LOCKWASHER, 5/8"
25	70064810	-	10	WASHER, plain
26	70088819	1	-	PLATE, guard, left headlight
27	70012992	2	-	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	-	LOCKWASHER, 3/8"
	70911115	2	-	WASHER, plain, SAE std., 3/8"
28	70088820	1	-	PLATE, guard, right headlight
29	70012992	2	-	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	-	LOCKWASHER, 3/8"
	70911115	2	-	WASHER, plain, SAE std., 3/8"
30	70092868	1	-	BAFFLE, air, upper
	70093225	-	1	BAFFLE, air, upper
31	70012992	5	5	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	5	5	LOCKWASHER, 3/8"
32	70044973	5	5	WASHER, plain
33	70093191	1	1	BAFFLE, air, left side
	70911168	4	4	CAPSCREW, 5/16"NF x 7/8"
	70904205	4	4	LOCKWASHER, 5/16"
34	70092665	4	4	WASHER, plain
35	70093192	1	1	BAFFLE, air, right side
	70626497	-	1	BAFFLE, air, right side (For tractors with Ripper and Triple Control Valve)
36	70911168	4	4	CAPSCREW, 5/16"NF x 7/8"
	70904205	4	4	LOCKWASHER, 5/16"
	70092665	4	4	WASHER, plain
37	70623525	1	1	MONOGRAM, "A-C", front
	70918370	4	4	RIVET, drive, 3/16" x 9/32" (Not original equipment)
38	70623524	2	2	MONOGRAM, "A-C", side
	70918370	8	8	RIVET, drive, 3/16" x 9/32" (Not original equipment)
39	70623502	2	2	MONOGRAM, "HD16"
	70918370	8	8	RIVET, drive, 3/16" x 9/32" (Not original equipment)

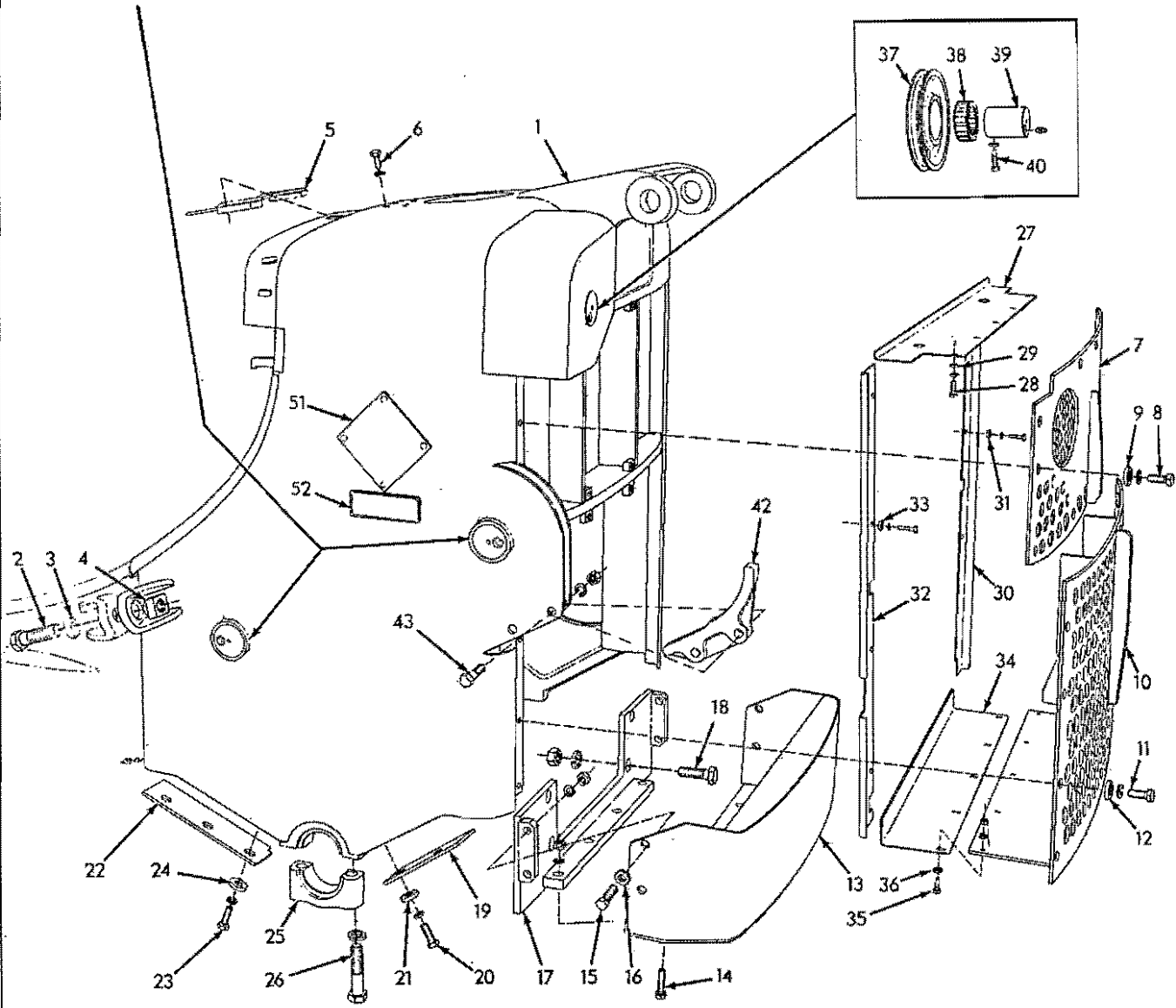
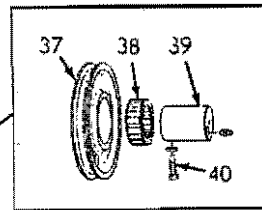
TRACTORS FITTED FOR
MODEL F-100 C.C.U.



FIRST TYPE GUARD



USED WITH REAR C.C.U. ONLY



RADIATOR GUARD (Cable dozer)

T-16265

RADIATOR GUARD

USAGE: Tractors equipped with cable dozer

* Used with rear-mounted cable control unit
** Used with front-mounted cable control unit

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	-----	1	1	GUARD ASSY., radiator (Used prior to tractor #2945)(Order 1 each GUARD ASSY. 70093291, PLATE 70093260, BAFFLE 70093241, CABLE 70093190, CABLE 70093196, CONNECTOR 70048142; 2 each BRACKET 70093195, CLIP 70235794, GROMMET 70044810, GROMMET 70083683, CABLE 70093176; 4 each CAPSCREW 70035336, WASHER 70044973, LOCKWASHER 70904206; 20 each WASHER 70064810 and LOCKWASHER 70904209)
	70093291	1	1	GUARD ASSEMBLY, radiator (Includes items 5, 6, 8, 11, 25, 26 and 52)(Effective with tractor #2945)
2	70089231	2	2	CAPSCREW, guard supporting (Effective with tractor #1510)
3	70089229	2	2	WASHER, spherical
4	70089230	2	2	NUT, spherical
5	70084413	1	1	PLATE, top closure
6	70070590	4	4	CAPSCREW, 5/8"NF x 1-1/8"
	70904209	4	4	LOCKWASHER, 5/8"
7	70093260	1	1	PLATE, front closure, upper (Effective with tractor #2945)
8	70023465	10	10	CAPSCREW, 5/8"NF x 1-3/4" (Used prior to tractor #3038)
	70036707	10	10	CAPSCREW, 5/8"NC x 1-3/4" (Effective with tractor #3038)
	70904209	10	10	LOCKWASHER, 5/8"
9	70064810	10	10	WASHER, plain
10	70090511	1	-	PLATE, front closure, lower (Used prior to tractor #2945. When required for tractors prior to #972 also order 1 BAFFLE 70088044)
	70093098	1	-	PLATE, front closure, lower (Effective with tractor #2945)
	70091952	-	1	PLATE, front closure, lower (Used prior to tractor #2945)
	70093238	-	1	PLATE, front closure, lower (Effective with tractor #2945)
	70099803	-	1	PLATE, front closure, lower (For use with Allis-Chalmers F-100 Cable Control Unit)
11	70023465	10	6	CAPSCREW, 5/8"NF x 1-3/4" (Used prior to tractor #3038)
	70036707	10	6	CAPSCREW, 5/8"NC x 1-3/4" (Effective with tractor #3038)
	70904209	10	6	LOCKWASHER, 5/8"
12	70064810	10	6	WASHER, plain
13	70609674	1	-	GUARD, lower section
14	70023755	4	-	CAPSCREW, 5/8"NC x 2-1/4"
15	70037573	4	-	CAPSCREW, 5/8"NC x 2-3/4"
16	70064810	4	-	WASHER, plain
	70904209	8	-	LOCKWASHER, 5/8"
	70911029	8	-	NUT, 5/8"NC
17	70609470	1	-	BRACKET, lower section guard
18	70070272	4	-	CAPSCREW, 1"NF x 3"
	70910916	4	-	LOCKWASHER, 1"
	70911047	4	-	NUT, 1"NF

For use
with Gar-
Wood Cable
Control unit

(Continued)

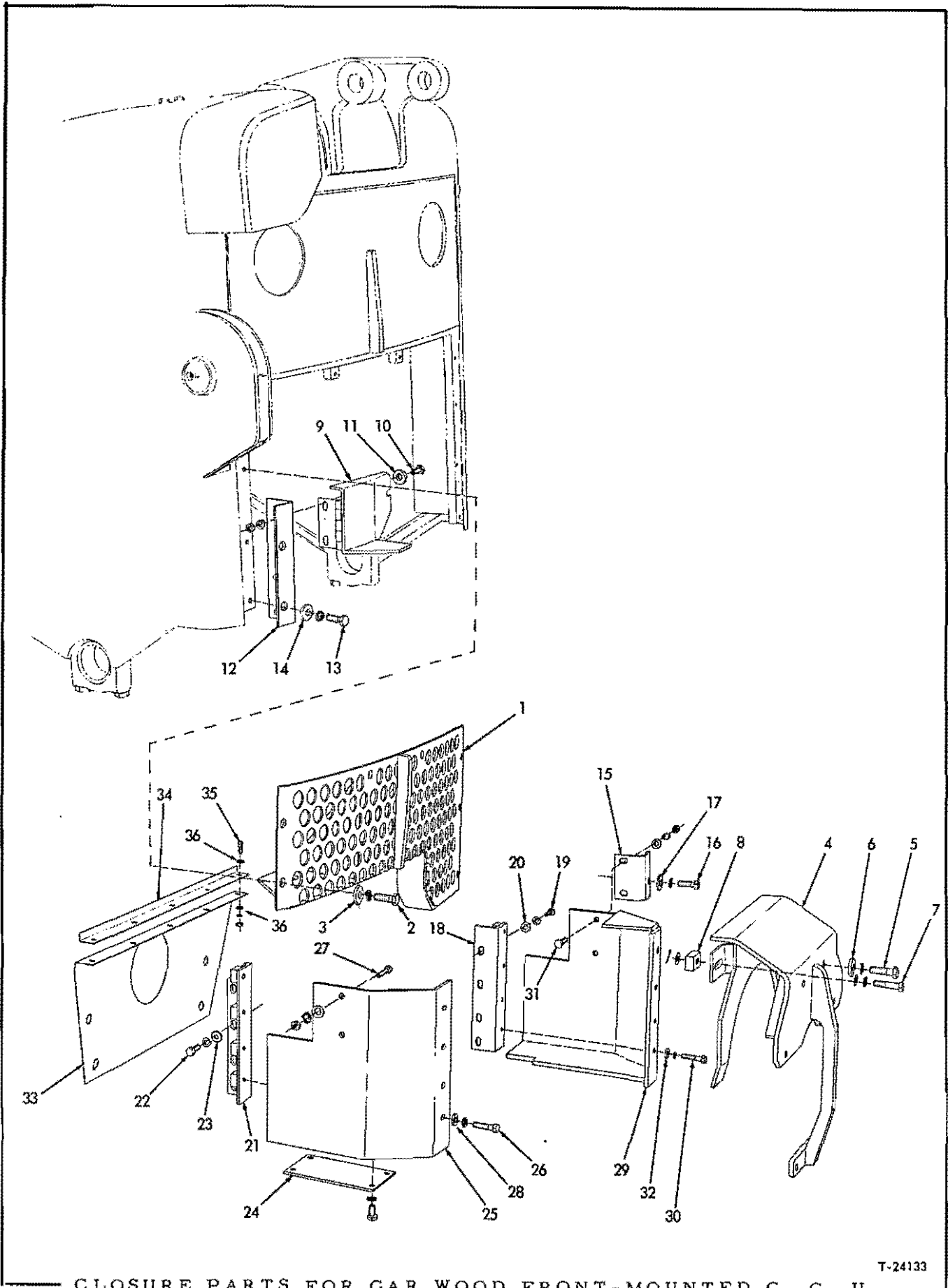
RADIATOR GUARD (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
19	70098097	1	-	PLATE, bottom closure, left front	} For use with Allis-Chalmers F-100 Cable Control Unit
	70098098	1	-	PLATE, bottom closure, right front	
	70084978	-	2	PLATE, bottom closure, front (For use with Gar Wood Cable Control Unit)	
	70098095	-	1	PLATE, bottom closure, left front	
	70098096	-	1	PLATE, bottom closure, right front	
20	70035229	4	4	CAPSCREW, 5/8"NF x 2"	
	70904209	4	4	LOCKWASHER, 5/8"	
21	70064810	4	4	WASHER, plain	
22	70084979	2	2	PLATE, bottom closure, rear	
23	70035229	6	6	CAPSCREW, 5/8"NF x 2"	
	70904209	6	6	LOCKWASHER, 5/8"	
24	70064810	6	6	WASHER, plain	
25	70085365	2	2	CAP, guard pivot	
26	70038203	4	4	CAPSCREW, 1"NF x 4-1/2"	
	70910916	4	4	LOCKWASHER, 1"	
27	70093241	1	1	BAFFLE, air, upper	
28	70012992	5	5	CAPSCREW, 3/8"NF x 1-1/4"	
	70904206	5	5	LOCKWASHER, 3/8"	
29	70044973	5	5	WASHER, plain	
30	70084655	1	1	BAFFLE, air, left side	
	70911168	4	4	CAPSCREW, 5/16"NF x 7/8"	
	70904205	4	4	LOCKWASHER, 5/16"	
31	70092665	4	4	WASHER, plain	
32	70085087	1	1	BAFFLE, air, right side	
	70911168	4	4	CAPSCREW, 5/16"NF x 7/8"	
	70904205	4	4	LOCKWASHER, 5/16"	
33	70092665	4	4	WASHER, plain	
34	70084988	1	-	BAFFLE, air, lower (Used prior to tractor #972)	
	70088044	1	-	BAFFLE, air, lower (Effective with tractor #972)	
35	70012992	5	-	CAPSCREW, 3/8"NF x 1-1/4"	
36	70044973	5	-	WASHER, plain	
	70904206	5	-	LOCKWASHER, 3/8"	
	70911041	5	-	NUT, 3/8"NF	
37	70084758	3	1	SHEAVE, control cable	
38	70044875	3	1	BEARING, roller, cable sheave	
39	70084757	1	1	SHAFT, front sheave	
	70914465	1	1	FITTING, lubricating, straight, 1/8"NPT	
40	70035188	1	1	SETSCREW, shaft retaining	
	70911035	1	1	NUT, jam, 1/2"NC	

(Continued)

RADIATOR GUARD (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
41	70084384	2	-	SHAFT, side sheaves
	70914465	2	-	FITTING, lubricating, straight, 1/8"NPT
	70917936	2	-	PIN, roll, 3/8" x 3-1/2"
	70093043	-	2	CUP, hole closure
	70917936	-	2	PIN, roll, 3/8" x 3-1/2"
42	70084694	1	-	GUIDE, cable
	70085058	-	1	GUIDE, false (Serves as sheave compartment dirt closure)
43	70035306	2	2	CAPSCREW, 5/8"NF x 3-1/4"
	70904209	2	2	LOCKWASHER, 5/8"
	70911044	2	-	NUT, 5/8"NF
	70094455	-	1	BLOCK, tapped
44	70088819	1	1	PLATE, guard, left headlight (Used on tractors #1628 thru #2944)
45	70012992	2	2	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	2	LOCKWASHER, 3/8"
	70911115	2	2	WASHER, plain, SAE std., 3/8"
46	70088820	1	1	PLATE, guard, right headlight (Used on tractors #1628 thru #2944)
	70012992	2	2	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	2	LOCKWASHER, 3/8"
	70911115	2	2	WASHER, plain, SAE std., 3/8"
48	70620859	-	1	PLATE, closure (For use only when F-100 Cable Control Unit is removed)
49	70036707	-	4	CAPSCREW, 5/8"NC x 1-3/4"
	70086961	-	4	WASHER, plain
	70904209	-	4	LOCKWASHER, 5/8"
	70911029	-	4	NUT, 5/8"NC
51	70623524	2	2	MONOGRAM, "A-C", side
	70918370	8	8	RIVET, drive, 3/16" x 9/32" (Not original equipment)
52	70623502	2	2	MONOGRAM, "HD16"
	70918370	8	8	RIVET, drive, 3/16" x 9/32" (Not original equipment)



CLOSURE PARTS FOR GAR WOOD FRONT-MOUNTED C. C. U.

CLOSURE PARTS FOR GAR WOOD FRONT-MOUNTED C. C. U.

USAGE: For Gar Wood Model 151 Cable Control Unit when using Allis-Chalmers Controls

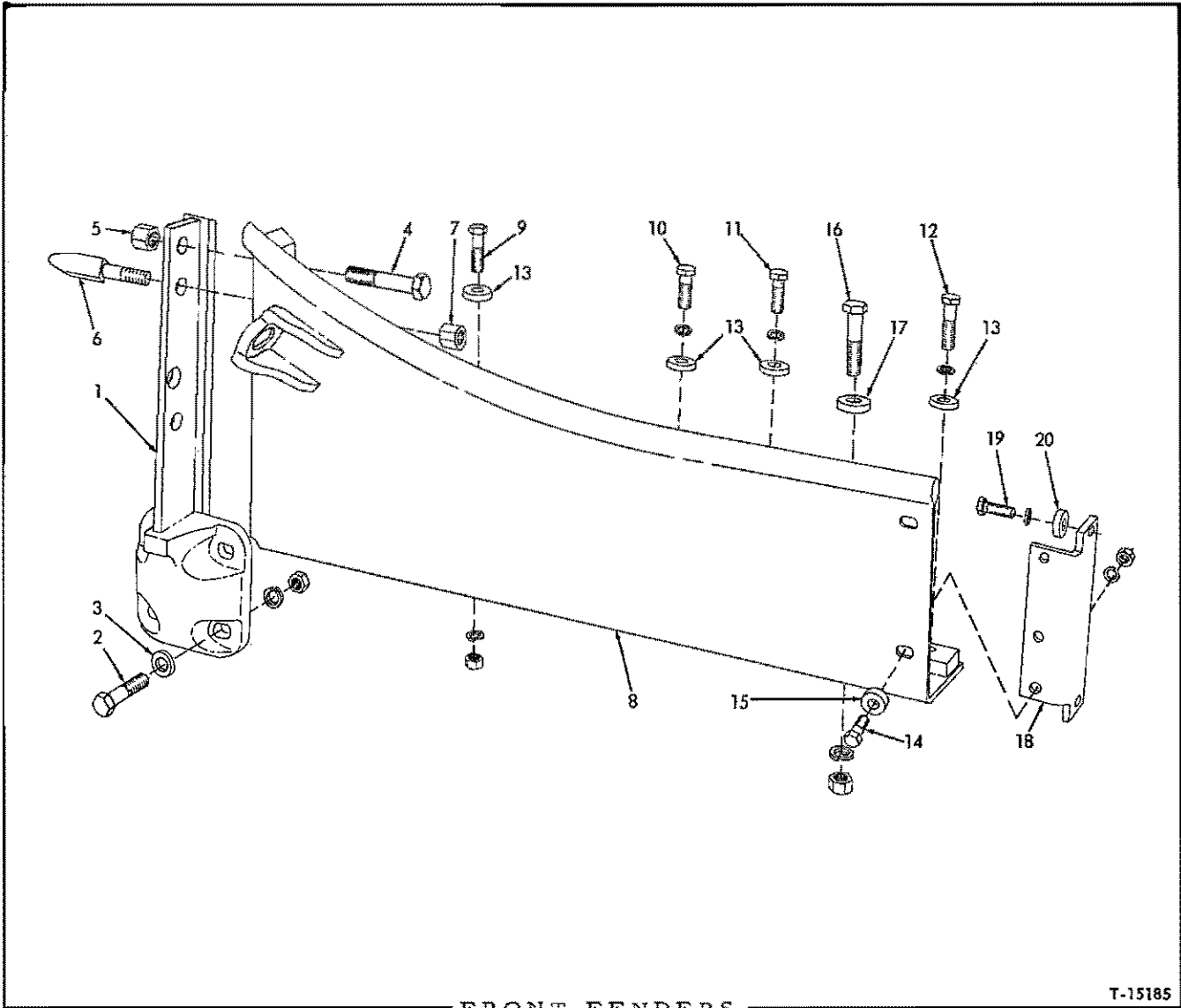
ITEM	PART NO.	QTY.	DESCRIPTION
1	70619072	1	PLATE, front closure, lower
2	70036707	7	CAPSCREW, 5/8"NC x 1-3/4"
	70904209	7	LOCKWASHER, 5/8"
3	70064810	7	WASHER, plain
4	70619026	1	GUARD, center
5	70071113	6	CAPSCREW, 5/8"NC x 2"
	70904209	6	LOCKWASHER, 5/8"
6	70064810	6	WASHER, plain
7	70093061	1	CAPSCREW, latching, hinged cover
	70900806	1	PIN, cotter, 1/8" x 1"
	70910244	2	WASHER, plain, SAE std., 1/2"
	70904208	1	LOCKWASHER, 1/2"
8	70619082	1	BLOCK, tapped, cover latching capscREW
9	70619074	1	COVER, hinged
10	70035018	2	CAPSCREW, 1/2"NF x 1-1/2"
11	70064531	2	WASHER, plain
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
12	70619084	1	ANGLE, supporting, right guard (rear)
13	70036707	2	CAPSCREW, 5/8"NC x 1-3/4"
	70904209	2	LOCKWASHER, 5/8"
14	70064810	2	WASHER, plain
15	70619081	1	ANGLE, supporting, left guard (rear)
16	70036707	1	CAPSCREW, 5/8"NC x 1-3/4"
	70904209	1	LOCKWASHER, 5/8"
17	70064810	1	WASHER, plain
18	70619066	1	ANGLE, supporting, left guard (front)
19	70035733	4	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	4	LOCKWASHER, 1/2"
20	70064531	4	WASHER, plain
21	70619064	1	ANGLE, supporting, right guard (front)
22	70035733	4	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	4	LOCKWASHER, 1/2"
23	70064531	4	WASHER, plain
24	70619105	1	PLATE, access, control unit adjustment
	70911980	4	CAPSCREW, 1/2"NC x 7/8"
	70904208	4	LOCKWASHER, 1/2"
25	70619040	1	GUARD, right side
26	70035067	4	CAPSCREW, 1/2"NF x 2"
27	70035073	2	CAPSCREW, 1/2"NF x 1-3/4"
28	70064531	6	WASHER, plain
	70904208	6	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF

(Continued)

CLOSURE PARTS FOR GAR WOOD FRONT-MOUNTED C. C. U. (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
29	70619069	1	GUARD, left side
30	70035067	4	CAPSCREW, 1/2"NF x 2"
31	70035073	2	CAPSCREW, 1/2"NF x 1-3/4"
32	70064531	6	WASHER, plain
	70904208	6	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
33	70619077	1	BAFFLE, air, lower section
34	70089327	1	BAFFLE, air, upper section
35	70036034	5	CAPSCREW, 3/8"NF x 1"
36	70044973	10	WASHER, plain
	70904206	5	LOCKWASHER, 3/8"
	70911041	5	NUT, 3/8"NF

MEMO



FRONT FENDERS

T-15185

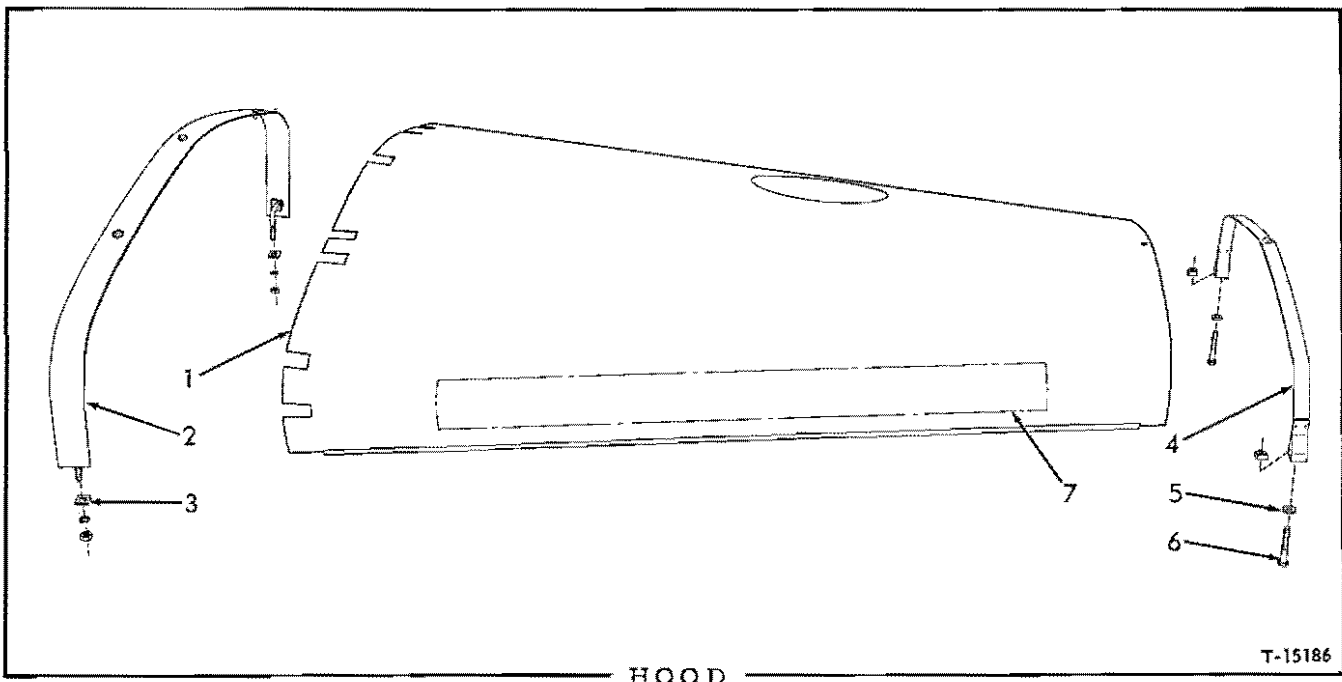
USAGE: All models except HD16GC. See page 227.

ITEM	PART NO.	QTY.	DESCRIPTION
1	70084773	2	BRACKET, fender attachment
2	70052527	8	CAPSCREW, 3/4"NF x 3-1/2"
3	70085957	8	WASHER, plain
	70904369	8	LOCKWASHER, 3/4"
	70911045	8	NUT, 3/4"NF
4	70085026	6	CAPSCREW, fender attachment (7/8"NF x 4-1/2")
5	70070400	6	NUT, high, 7/8"NF
			} 2 less used effective with tractor #5474
6	70620789	2	PIN, guide, radiator guard
7	70012767	2	NUT, high, 3/4"NF
			} Effective with tractor #5474

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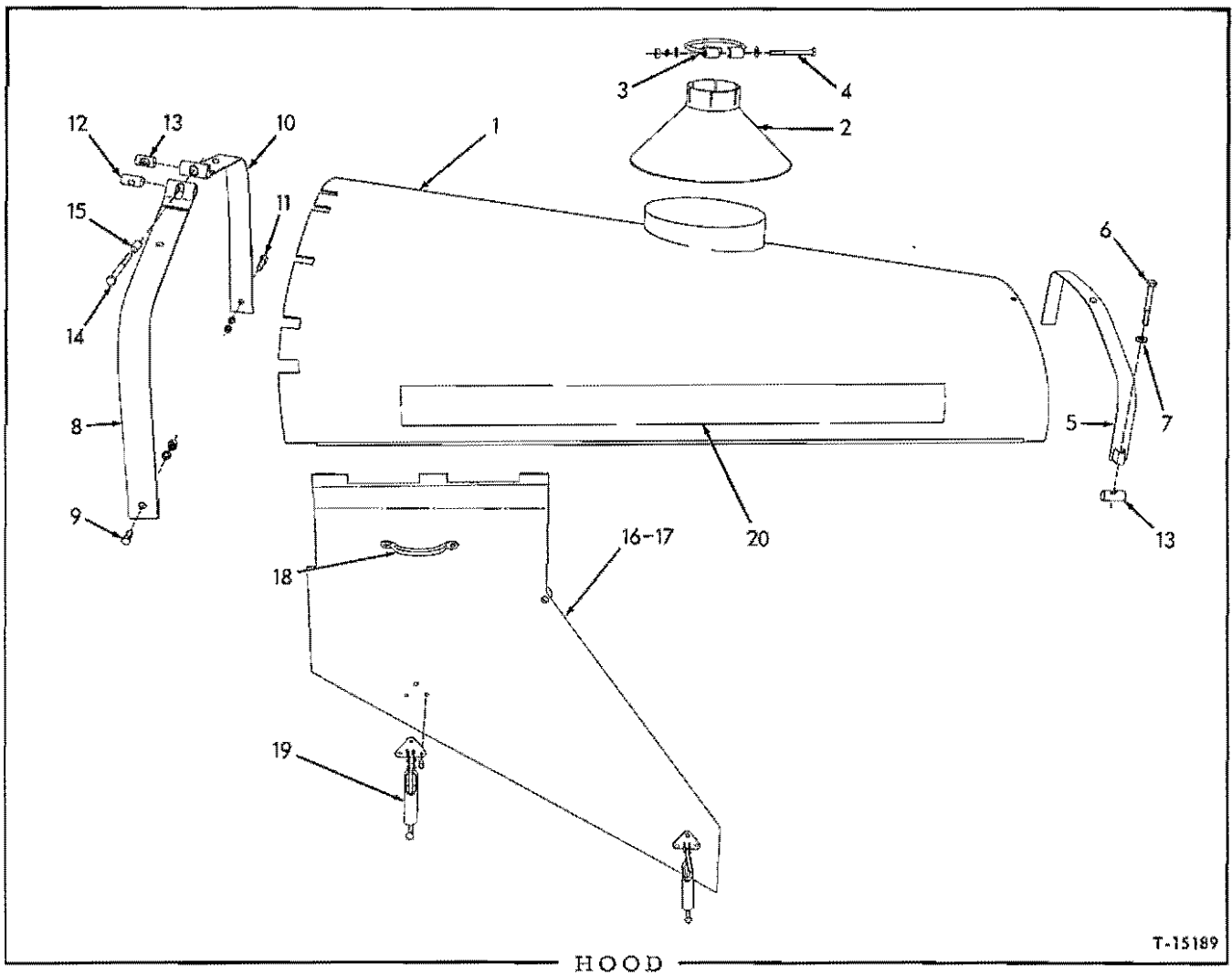
FRONT FENDERS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	70089263	1	FENDER, front, left side
	70089264	1	FENDER, front, right side (For all tractors except those equipped with cable dozer using rear-mounted cable control unit)
	70089576	1	FENDER, front, right side (For tractors equipped with cable dozer using rear-mounted cable control unit)
9	70023618	4	CAPSCREW, 5/8"NF x 2-1/2"
10	70023618	1	CAPSCREW, 5/8"NF x 2-1/2" (right fender only)
	70023465	1	CAPSCREW, 5/8"NF x 1-3/4" (left fender only)
11	70034440	1	CAPSCREW, 5/8"NF x 3-1/2" (right fender only)
	70023465	1	CAPSCREW, 5/8"NF x 1-3/4" (left fender only)
12	70070282	1	CAPSCREW, 5/8"NF x 4-1/4" (right fender only)
	70023618	1	CAPSCREW, 5/8"NF x 2-1/2" (left fender only)
13	70064810	10	WASHER, plain
	70904209	10	LOCKWASHER, 5/8"
	70911044	7	NUT, 5/8"NF
14	70035073	4	CAPSCREW, 1/2"NF x 1-3/4"
15	70064531	4	WASHER, plain
	70904208	4	LOCKWASHER, 1/2"
	70911043	4	NUT, 1/2"NF
	70012526	4	CAPSCREW, 3/4"NF x 3-1/4"
17	70061689	4	WASHER, plain
	70904369	4	LOCKWASHER, 3/4"
	70911045	4	NUT, 3/4"NF
18	70084776	2	ANGLE, fender attachment
19	70035073	4	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	4	LOCKWASHER, 1/2"
20	70064531	4	WASHER, plain



USAGE: All models except HD16GC

ITEM	PART NO.	QTY.	DESCRIPTION
1	70093140	1	HOOD, engine (Used prior to tractor #4001)
	70097492	1	HOOD, engine (Effective with tractor #4001)
2	70090870	1	STRAP, hold-down, front
	70904206	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
3	70052505	2	BLOCK, front strap
4	70059532	1	STRAP, hold-down, rear
5	70044973	2	WASHER, rear strap
6	70056721	2	CAPSCREW, rear hold-down strap
	70900405	2	NUT, square, 3/8"NC
7	-----	-	TRANSFER (See PAINTING AND MARKING)



HOOD

T-15189

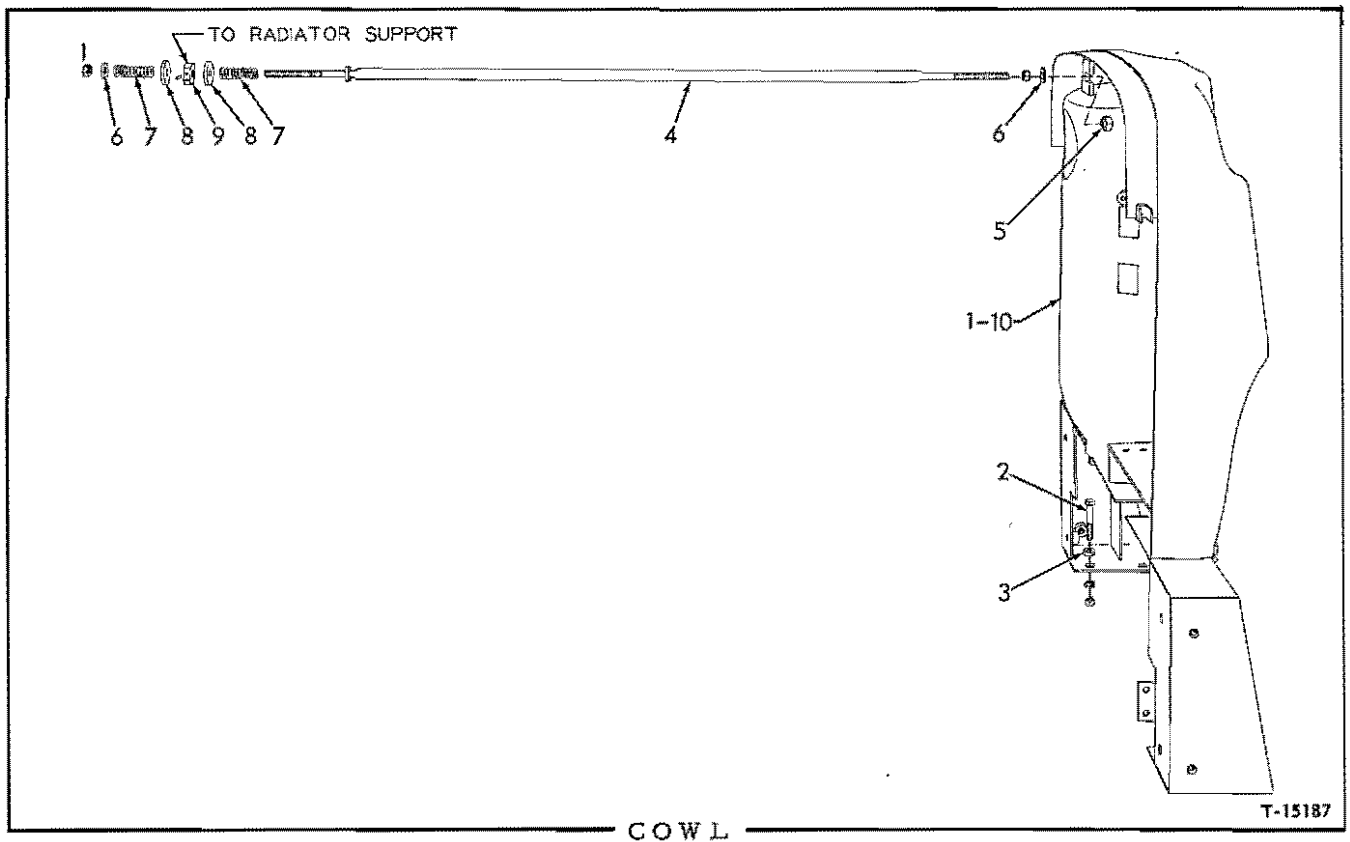
USAGE: Model HD16GC

ITEM	PART NO.	QTY.	DESCRIPTION
1	70088660	1	HOOD, engine (Used prior to tractor #4001)
	70097672	1	HOOD, engine (Effective with tractor #4001)
2	70089308	1	SHIELD, dirt, exhaust pipe
3	70646078	1	CLAMP, exhaust pipe dirt shield
4	70041915	1	CAPSCREW, 3/8"NC x 3-1/2"
	70911115	2	WASHER, plain, SAE std., 3/8"
	70904206	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
5	70084507	1	STRAP, hold-down, rear
6	70088559	2	CAPSCREW, 3/8"NC x 3"
7	70044973	2	WASHER, plain
8	70089651	1	STRAP, hold-down, left front
9	70012992	1	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF

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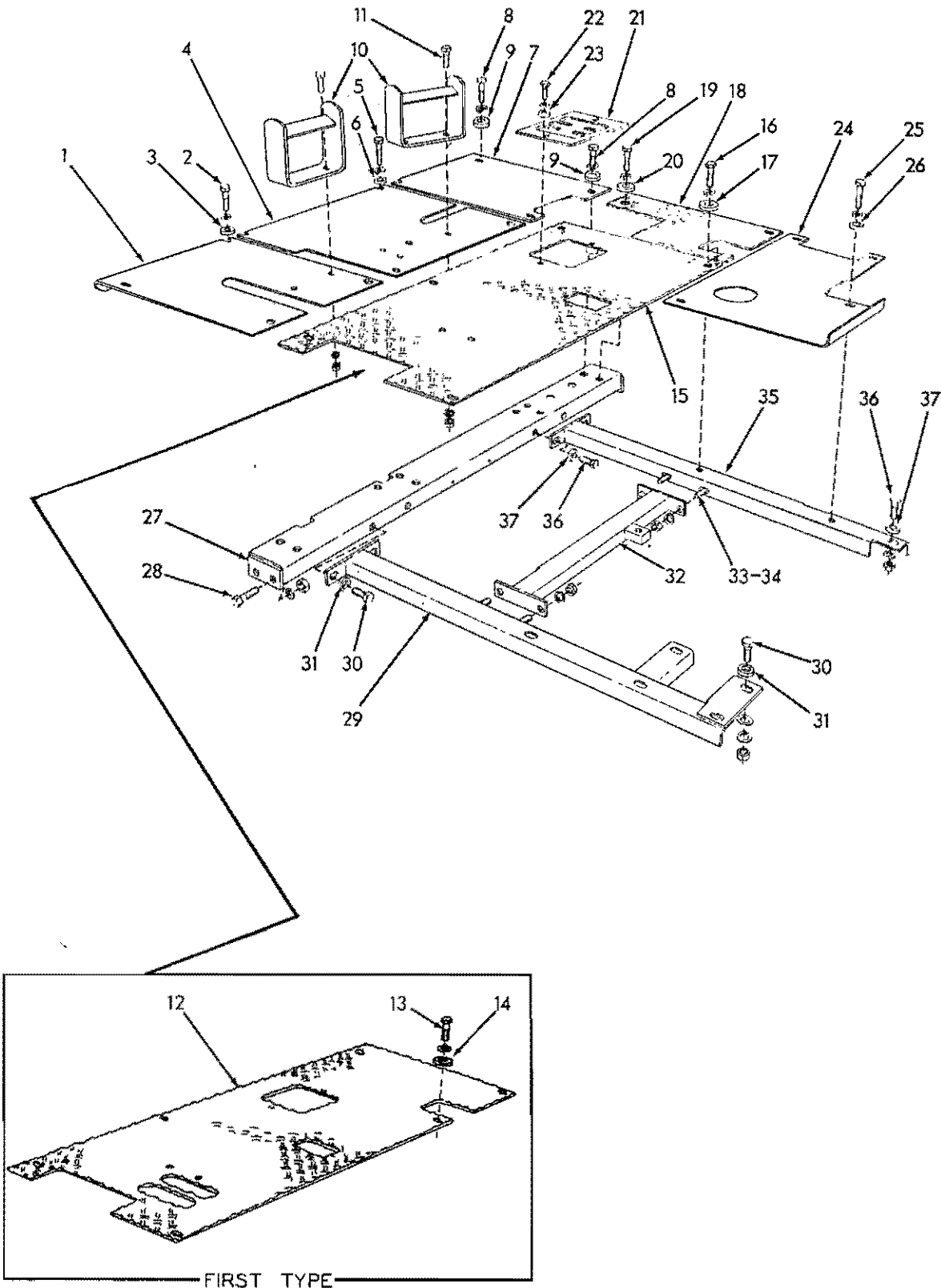
HOOD (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
10	70089652	1	STRAP, hold-down, right front
11	70012992	1	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF
12	70050735	1	PIN, front hold-down strap (plain hole)
13	70050734	3	PIN, hold-down straps (threaded hole)
14	70087159	1	CAPSCREW, front strap (3/8"NC x 5-1/2")
15	70053667	1	SPACER, front strap capscrew
16	70089991	1	PLATE ASSY., left (Includes items 18 and 19)
17	70089992	1	PLATE ASSY., right (Includes items 18 and 19)
18	70032834	2	HANDLE, lifting, hood side plate
	70900764	4	RIVET, fl-hd., 3/16" x 1/2"
19	70033060	4	FASTENER, hood side plate
	70900764	12	RIVET, fl-hd., 3/16" x 1/2"
20	-----	--	TRANSFER (See PAINTING AND MARKING)



USAGE: All models except HD16GC. The Cowl is an integral part of the Front Shovel Stabilizer on Model HD16GC

ITEM	PART NO.	QTY.	DESCRIPTION
1	70083314	1	COWL (Model HD16A, AC, D, DC tractors prior to #4001)
	70097482	1	COWL (Model HD16A, AC, D, DC tractors effective with #4001)
	70087618	1	COWL (Model HD16FC tractors prior to #4001)
	70097692	1	COWL (Model HD16FC tractors effective with #4001)
2	70042430	4	CAPSCREW, 1/2"NF x 3-1/4"
3	70064531	4	WASHER, plain
	70904208	4	LOCKWASHER, 1/2"
	70911043	4	NUT, 1/2"NF
	70911043	4	NUT, 1/2"NF
4	70083838	1	ROD, cowl bracing
	70911043	1	NUT, regular, 1/2"NF (rear end)
	70910867	1	NUT, slotted, 1/2"NF (front end)
	70900806	1	PIN, cotter, 1/8" x 1"
5	70082884	1	NUT, shoulder, cowl bracing rod
6	70064531	2	WASHER, cowl bracing rod (1-1/8"O.D.)
7	70074960	2	SPRING, cowl bracing rod
8	70092163	2	WASHER, cowl bracing rod (1-3/4"O.D.)
9	70082885	1	NUT, cowl bracing rod
	70915797	1	PIN, roll, 3/16" x 1-1/4"
10	-----	-	PLATES AND TRANSFERS (See PAINTING AND MARKING)



FLOOR (Models HD16A, AC, D, DC)

T-5136A

FLOOR

USAGE: Models HD16A, AC, D, DC

* Tractors prior to serial No. 5651
 ** Tractors serial No. 5651 and up

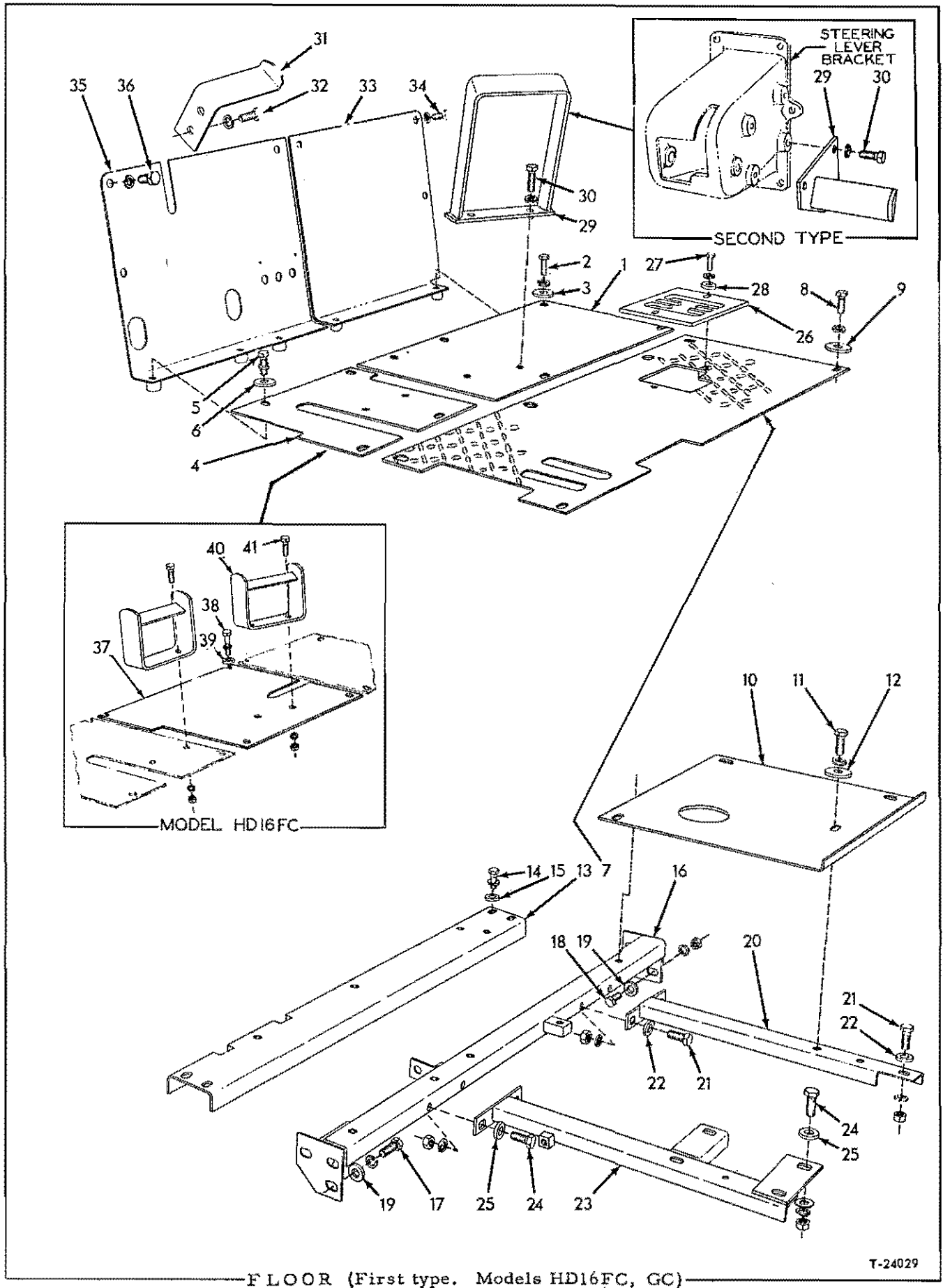
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70083916	1	1	PLATE, front, left side
2	70035190	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4	4	LOCKWASHER, 1/2"
3	70064531	4	4	WASHER, plain
4	70083939	1	-	PLATE, front, center (Used prior to tractor #4001)
	70621260	1	1	PLATE, front, center (Used on tractors #4001 thru #5702 except those equipped with dry-type air cleaner and hydraulic dozer controls)
	70622597	1	1	PLATE, front, center (Effective with tractor #5703; also optional on prior units equipped with dry-type air cleaner and hydraulic dozer controls)
5	70035190	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4	4	LOCKWASHER, 1/2"
6	70064531	4	4	WASHER, plain
7	70083868	1	-	PLATE, front, right side
	70632917	-	1	PLATE, front, right side
8	70035190	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4	4	LOCKWASHER, 1/2"
9	70064531	4	4	WASHER, plain
10	70054374	1	1	REST, foot (2 used prior to tractor #4777)
11	70070469	2	2	CAPSCREW, 1/2"NF x 1-1/4" } 4 used prior to tractor #4777
	70904208	2	2	LOCKWASHER, 1/2" }
	70911043	2	2	NUT, 1/2"NF }
12	70082425	1	-	PLATE, center (Model HD16A, D tractors prior to #5154)
	70623856	1	-	PLATE, center (Model HD16A, D tractors #5154 thru #5650)
	70083862	1	-	PLATE, center (Model HD16AC, DC tractors prior to #5154 excluding #5104)
	70623858	1	-	PLATE, center (Model HD16AC, DC tractors #5154 thru #5650 including #5104)
13	70035190	7	-	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	7	-	LOCKWASHER, 1/2"
14	70064531	7	-	WASHER, plain (1-1/8"O. D.)(Early units)
	70092163	7	-	WASHER, plain (1-3/4"O. D.)(Late units)
15	70632930	-	1	PLATE, center, left side (Models HD16A, D)
	70632941	-	1	PLATE, center, left side (Models HD16AC, DC)
16	70035190	-	5	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	-	5	LOCKWASHER, 1/2"
17	70092163	-	5	WASHER, plain

(Continued)

FLOOR (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
18	70632740	-	1	PLATE, center, right side
19	70035190	-	2	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	-	2	LOCKWASHER, 1/2"
20	70092163	-	2	WASHER, plain
21	70083602	1	1	PLATE, guide, gear shifting lever (Models HD16A, D)
	70083603	1	1	PLATE, guide, gear shifting lever (Models HD16AC, DC)
22	70013058	2	2	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	2	2	LOCKWASHER, 3/8"
23	70044973	2	2	WASHER, plain
24	70083836	1	-	PLATE, rear (Used prior to tractor #5154 excluding #5104)
	70623861	1	1	PLATE, rear (Effective with tractor #5154 including #5104)
25	70035190	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4	4	LOCKWASHER, 1/2"
26	70064531	4	4	WASHER, plain
27	70099323	1	1	CHANNEL, supporting, front and center plates
	70626481	1	1	CHANNEL, supporting, front and center plates (For tractors with Ripper and Triple Control Valve)
28	70614478	4	4	CAPSCREW, 1/2 NF x 1-3/8"
	70904208	4	4	LOCKWASHER, 1/2"
	70911043	4	4	NUT, 1/2"NF (Effective with tractor #4129)
29	70083832	1	1	CHANNEL, supporting, center and rear plates, left
30	70070469	4	4	CAPSCREW, 1/2"NF x 1-1/4"
31	70064531	4	4	WASHER, plain
	70910244	1	1	WASHER, plain, SAE std., 1/2" (spacing)
	70904208	4	4	LOCKWASHER, 1/2"
	70911043	4	4	NUT, 1/2"NF
32	70083830	1	1	CHANNEL, supporting, center and rear plates
33	70070469	4	4	CAPSCREW, 1/2"NF x 1-1/4"
34	70064531	4	4	WASHER, plain
	70904208	4	4	LOCKWASHER, 1/2"
	70911043	4	4	NUT, 1/2"NF
35	70623860	1	1	CHANNEL, supporting, center and rear plates, right
36	70070469	3	3	CAPSCREW, 1/2"NF x 1-1/4"
37	70064531	3	3	WASHER, plain
	70904208	3	3	LOCKWASHER, 1/2"
	70911043	3	3	NUT, 1/2"NF

MEMO



FLOOR

USAGE: Model HD16FC, GC tractors prior to serial No. 5154

* Model HD16FC
** Model HD16GC

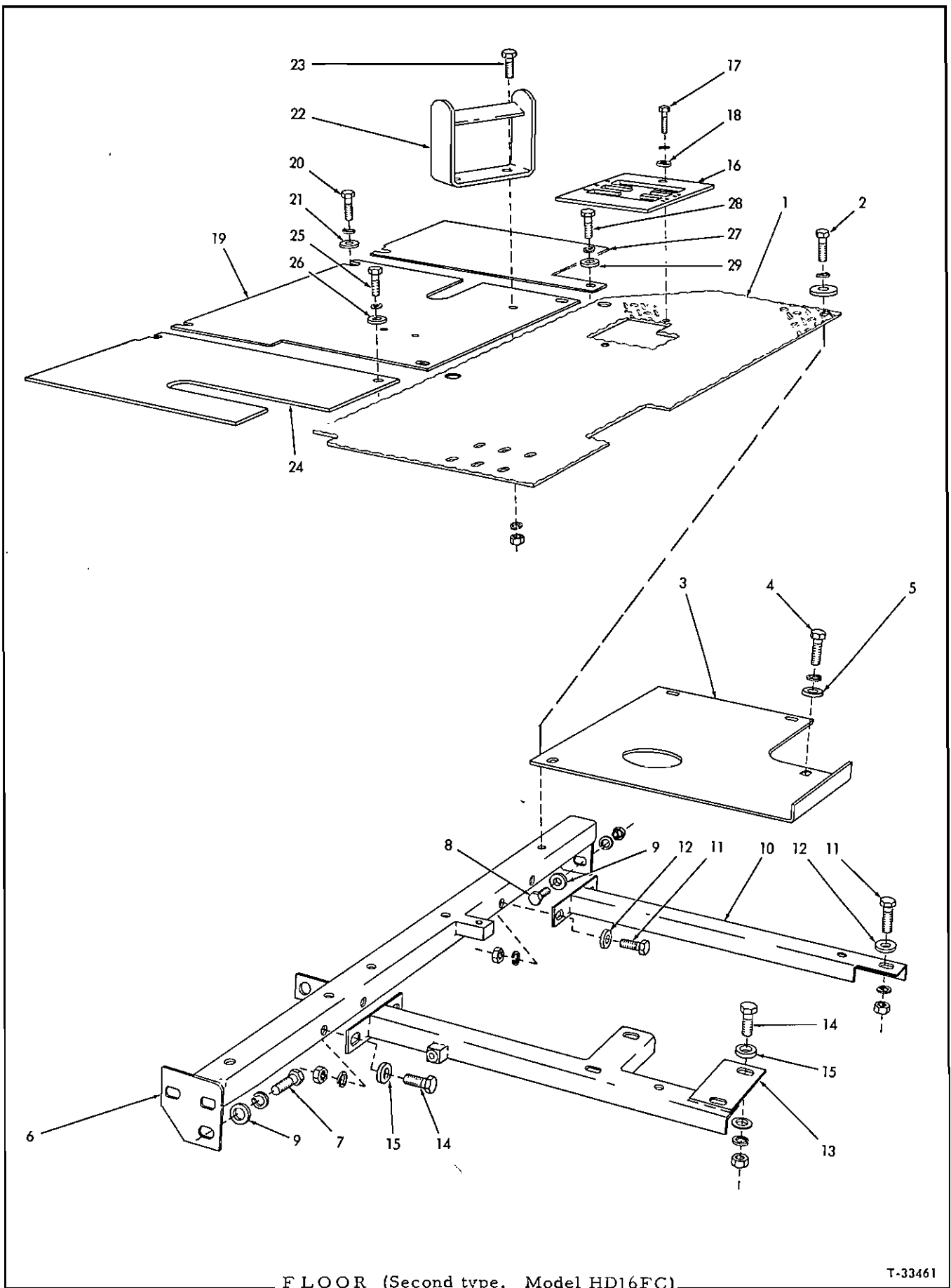
ITEM	PART NO.	QTY. * **	DESCRIPTION
<u>NOTE:</u> Model HD16FC parts not listed here are shown in a separate Side Boom catalog			
1	70087866	- 1	PLATE, floor, right front
2	70035190	- 5	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	- 5	LOCKWASHER, 1/2"
3	70064531	- 5	WASHER, plain
4	70087867	- 1	PLATE, floor, left front
5	70035190	- 4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	- 4	LOCKWASHER, 1/2"
6	70064531	- 4	WASHER, plain
7	70087565	- 1	PLATE, floor, center
8	70035190	- 4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	- 4	LOCKWASHER, 1/2"
9	70092163	- 4	WASHER, plain
10	70087567	1 1	PLATE, floor, rear
11	70035190	4 4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4 4	LOCKWASHER, 1/2"
12	70064531	4 4	WASHER, plain
13	70078624	- 1	CHANNEL, floor supporting, front (Used prior to tractor #4560)
	70099325	- 1	CHANNEL, floor supporting, front (Effective with tractor #4560)
14	70035061	- 2	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	- 2	LOCKWASHER, 1/2"
15	70064531	- 2	WASHER, plain
16	70078630	1 1	CHANNEL, floor supporting, intermediate
17	70035073	3 3	CAPSCREW, 1/2"NF x 1-3/4"
18	70070469	3 3	CAPSCREW, 1/2"NF x 1-1/4"
19	70064531	6 6	WASHER, plain
	70904208	6 6	LOCKWASHER, 1/2"
	70911043	3 3	NUT, 1/2"NF
20	70623914	1 1	CHANNEL, floor supporting, right rear
21	70070469	3 3	CAPSCREW, 1/2"NF x 1-1/4"
22	70064531	3 3	WASHER, plain
	70904208	3 3	LOCKWASHER, 1/2"
	70911043	3 3	NUT, 1/2"NF
23	70078632	1 1	CHANNEL, floor supporting, left rear
24	70070469	4 4	CAPSCREW, 1/2"NF x 1-1/4"
25	70064531	4 4	WASHER, plain
	70910244	1 1	WASHER, plain, SAE std., 1/2" (spacing)
	70904208	4 4	LOCKWASHER, 1/2"
	70911043	4 4	NUT, 1/2"NF
26	70083603	1 1	PLATE, guide, shifting lever
27	70013058	2 2	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	2 2	LOCKWASHER, 3/8"
28	70044973	2 2	WASHER, plain

(Continued)

FLOOR (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
29	70089601	- 1	REST, right foot (Used prior to tractor #2612)
	70092780	- 1	REST, right foot (Used on tractors #2612 thru #3066)
30	70070469	- 2	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	- 2	LOCKWASHER, 1/2"
	70911043	- 2	NUT, 1/2"NF
	70035061	- 2	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	- 2	LOCKWASHER, 1/2"
<p><u>NOTE:</u> See page 167 for combination foot rest and decelerator pedal bracket effective with tractor #3067</p>			
31	70089556	- 1	REST, left foot
32	70070469	- 2	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	- 2	LOCKWASHER, 1/2"
33	70091304	- 1	PLATE, floor supporting, right
34	70035221	- 3	CAPSCREW, 1/2"NC x 1"
	70904208	- 3	LOCKWASHER, 1/2"
35	70091306	- 1	PLATE, floor supporting, left (Used prior to tractor #4001)
	70097783	- 1	PLATE, floor supporting, left (Effective with tractor #4001)
36	70035221	- 3	CAPSCREW, 1/2"NC x 1"
	70904208	- 3	LOCKWASHER, 1/2"
37	70083939	1 -	PLATE, floor, front center (Used prior to tractor #4001)
	70621260	1 -	PLATE, floor, front center (Effective with tractor #4001)
38	70035190	4 -	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4 -	LOCKWASHER, 1/2"
39	70064531	4 -	WASHER, plain
40	70054374	2 -	REST, foot (1 used effective with tractor #4777)
41	70070469	4 -	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	4 -	LOCKWASHER, 1/2"
	70911043	4 -	NUT, 1/2"NF

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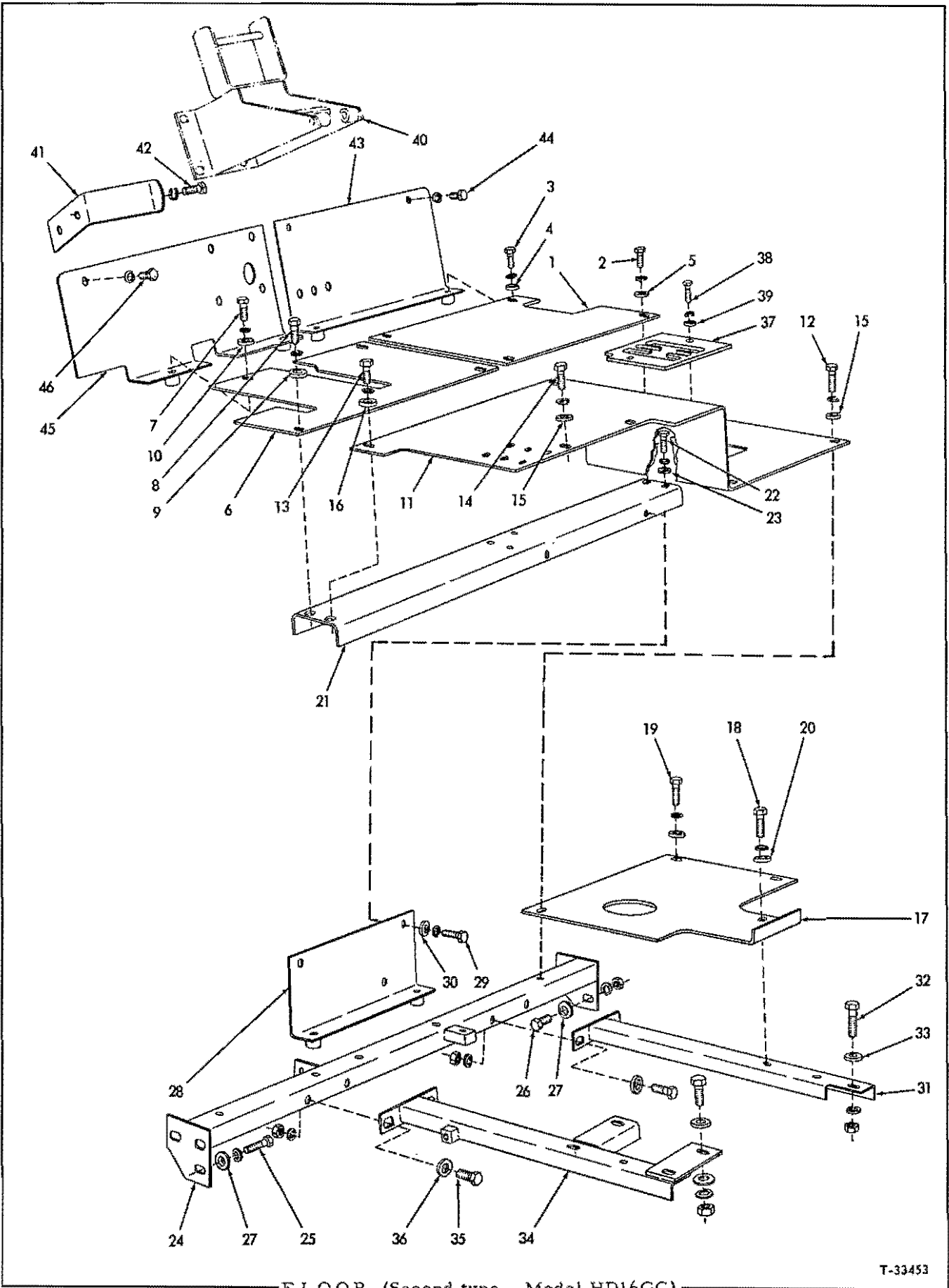
FLOOR (Second type. Model HD16FC)

T-33461

FLOOR

USAGE: Model HD16FC tractors effective with serial No. 5154

ITEM	PART NO.	QTY.	DESCRIPTION
1	70624124	1	PLATE, floor, center
2	70035190	4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4	LOCKWASHER, 1/2"
	70092163	4	WASHER, plain
3	70623767	1	PLATE, floor, rear
4	70035190	4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4	LOCKWASHER, 1/2"
5	70064531	4	WASHER, plain
6	70078630	1	CHANNEL, floor supporting, intermediate
7	70035073	3	CAPSCREW, 1/2"NF x 1-3/4"
8	70070469	3	CAPSCREW, 1/2"NF x 1-1/4"
9	70064531	6	WASHER, plain
	70904208	6	LOCKWASHER, 1/2"
	70911043	3	NUT, 1/2"NF
10	70623914	1	CHANNEL, floor supporting, right rear
11	70070469	3	CAPSCREW, 1/2"NF x 1-1/4"
12	70064531	3	WASHER, plain
	70904208	3	LOCKWASHER, 1/2"
	70911043	3	NUT, 1/2"NF
13	70078632	1	CHANNEL, floor supporting, left rear
14	70070469	4	CAPSCREW, 1/2"NF x 1-1/4"
15	70064531	4	WASHER, plain
	70910244	1	WASHER, plain, SAE std., 1/2" (spacing)
	70904208	4	LOCKWASHER, 1/2"
	70911043	4	NUT, 1/2"NF
16	70083603	1	PLATE, guide, gear shifting lever
17	70013058	2	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	2	LOCKWASHER, 3/8"
18	70044973	2	WASHER, plain
19	70621260	1	PLATE, floor, front center
20	70035190	4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4	LOCKWASHER, 1/2"
21	70064531	4	WASHER, plain
22	70054374	1	REST, right foot
23	70070469	2	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
24	70632911	1	PLATE, floor, front left
25	70035190	2	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	2	LOCKWASHER, 1/2"
26	70064531	2	WASHER, plain
27	70632912	1	PLATE, floor, front right
28	70035190	2	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	2	LOCKWASHER, 1/2"
29	70064531	2	WASHER, plain



FLOOR (Second type. Model HD16GC)

T-33453

FLOOR

USAGE: Model HD16GC tractors effective with serial No. 5154.

ITEM	PART NO.	QTY.	DESCRIPTION
1	70624145	1	PLATE, floor, right front
2	70035220	1	CAPSCREW, 1/2"NC x 1-1/8"
3	70035190	3	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4	LOCKWASHER, 1/2"
4	70064531	2	WASHER, plain
5	70047063	2	WASHER, plain
6	70624147	1	PLATE, floor, left front
7	70035190	3	CAPSCREW, 1/2"NC x 1-1/2"
8	70035220	1	CAPSCREW, 1/2"NC x 1-1/8"
	70904208	4	LOCKWASHER, 1/2"
9	70064531	2	WASHER, plain
10	70047063	2	WASHER, plain
11	70624151	1	PLATE, floor, center
12	70035190	5	CAPSCREW, 1/2"NC x 1-1/2"
13	70035220	1	CAPSCREW, 1/2"NC x 1-1/8"
14	70035061	2	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	8	LOCKWASHER, 1/2"
15	70064531	6	WASHER, plain
16	70047063	2	WASHER, plain
17	70624405	1	PLATE, floor, rear
18	70035190	1	CAPSCREW, 1/2"NC x 1-1/2"
19	70035061	3	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	4	LOCKWASHER, 1/2"
20	70064531	4	WASHER, plain
21	70624158	1	CHANNEL, floor supporting, front
22	70035220	1	CAPSCREW, 1/2"NC x 1-1/8"
	70904208	1	LOCKWASHER, 1/2"
23	70047063	1	WASHER, plain
24	70 078630	1	CHANNEL, floor supporting, intermediate
25	70 035073	3	CAPSCREW, 1/2"NF x 1-3/4"
26	70 070469	3	CAPSCREW, 1/2"NF x 1-1/4"
27	70 064531	6	WASHER, plain
	70 904208	3	LOCKWASHER, 1/2"
	70 911043	3	NUT, 1/2"NF
28	70624149	1	ANGLE, floor supporting
29	70035190	2	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	2	LOCKWASHER, 1/2"
30	70064531	2	WASHER, plain
31	70 623914	1	CHANNEL, floor supporting, right rear
32	70070469	3	CAPSCREW, 1/2"NF x 1-1/4"
33	70064531	3	WASHER, plain
	70904208	3	LOCKWASHER, 1/2"
	70911043	3	NUT, 1/2"NF
34	70078632	1	CHANNEL, floor supporting, left rear
35	70070469	4	CAPSCREW, 1/2"NF x 1-1/4"
36	70064531	4	WASHER, plain
	70910244	1	WASHER, plain, SAE std., 1/2" (spacing)
	70904208	4	LOCKWASHER, 1/2"
	70911043	4	NUT, 1/2"NF

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FLOOR (Continued)

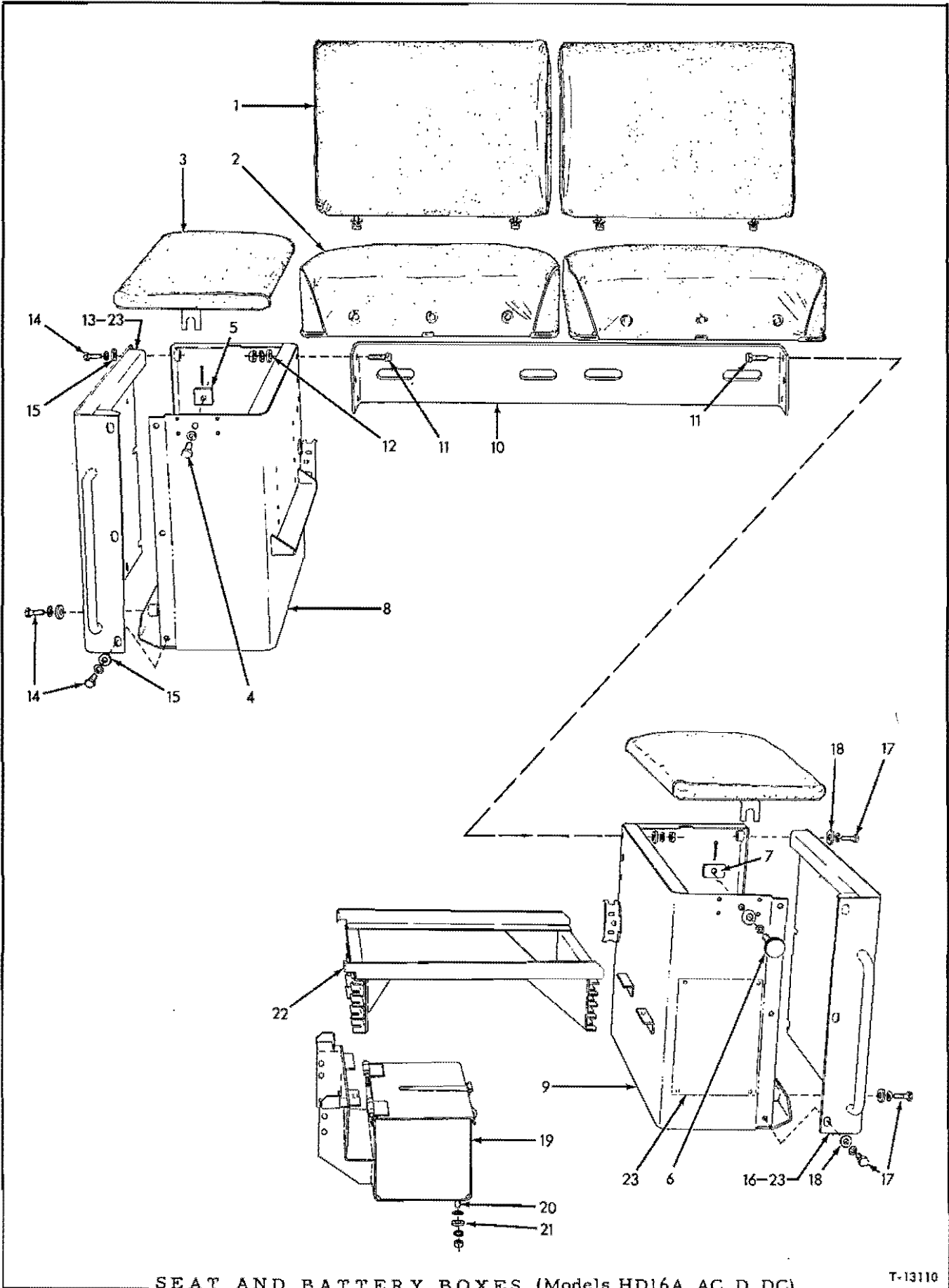
ITEM	PART NO.	QTY.	DESCRIPTION
37	70624152	1	PLATE, guide, gear shifting lever
38	70013058	2	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	2	LOCKWASHER, 3/8"
39	70044973	2	WASHER, plain
40	-----	1	BRACKET, right foot rest (See THROTTLE CONTROL)
41	70089556	1	REST, left foot
42	70070469	2	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	2	LOCKWASHER, 1/2"
43	70624156	1	PLATE, floor supporting, right
44	70035221	2	CAPSCREW, 1/2"NC x 1"
	70904208	2	LOCKWASHER, 1/2"
45	70624154	1	PLATE, floor supporting, left
46	70035221	1	CAPSCREW, 1/2"NC x 1"
	70904208	1	LOCKWASHER, 1/2"

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SEAT AND BATTERY BOXES (Models HD16A, AC, D, DC)

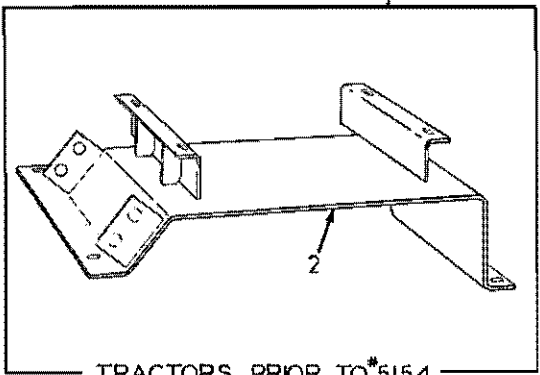
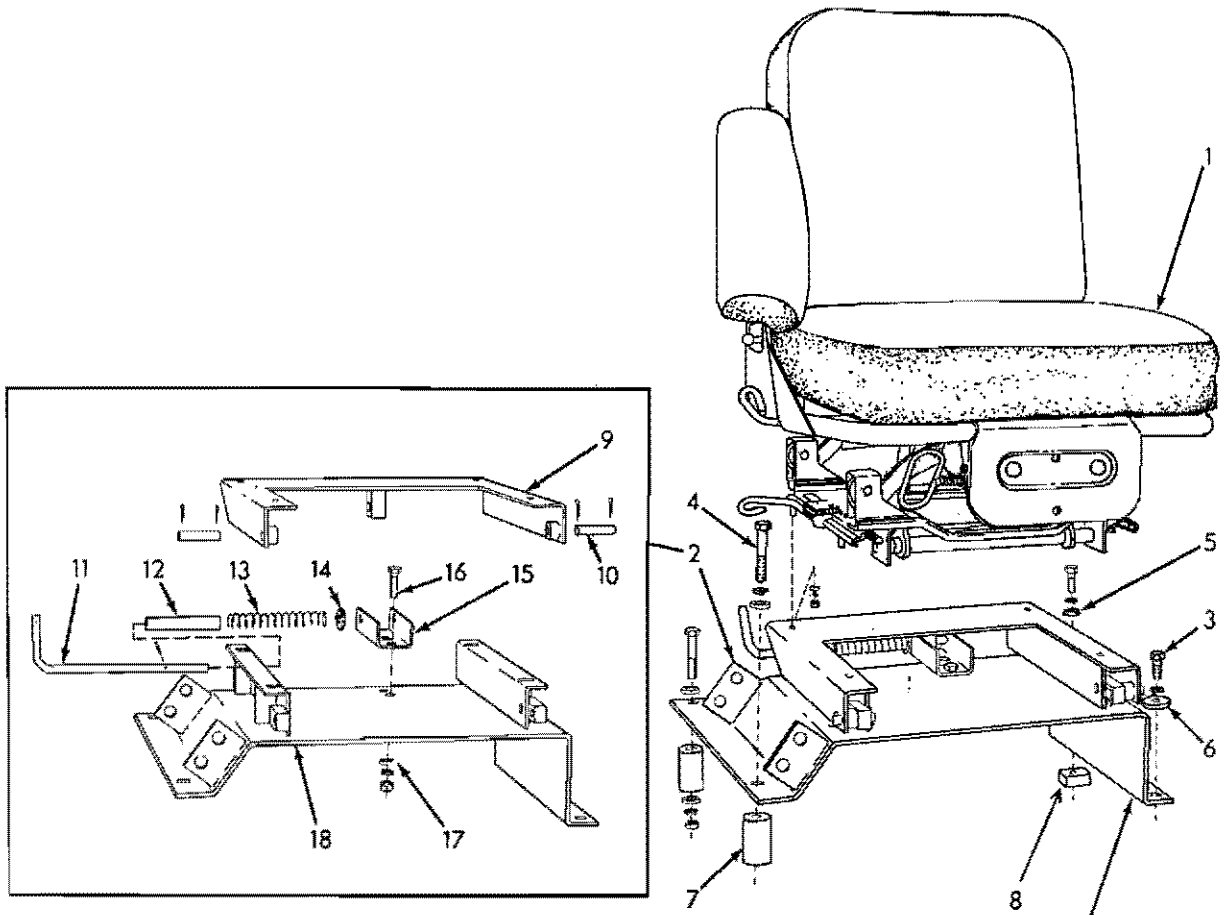
T-13110

SEAT AND BATTERY BOXES

USAGE: Standard equipment on Models HD16A, AC, D, DC. See pages 505 and 515 for optional Bucket Seats

ITEM	PART NO.	QTY.	DESCRIPTION	
1	70083262	2	*CUSHION, back (Includes NUTS indented below)(1 less used when heavy-duty filters are installed)	
	70910882	4	NUT, square, 1/2"NC	
	70910244	4	WASHER, plain, SAE std., 1/2"	
2	70083261	2	*CUSHION, seat (1 less used when heavy-duty filters are installed)	
3	70083263	2	CUSHION, arm	
4	70050510	1	CAPSCREW, retaining, arm cushion (1/2"NF x 1-1/2")	} 2 used prior to tractor #4001
	70904208	1	LOCKWASHER, 1/2"	
	70900802	1	PIN, cotter, 3/32" x 1"	
5	70050551	1	BLOCK, retaining, arm cushion (1/2"NF)	
6	70091976	1	KNOB, retaining, left arm cushion	} Effective with tractor #4001
	70904208	1	LOCKWASHER, 1/2"	
	70910244	1	WASHER, plain, SAE std., 1/2"	
	70900802	1	PIN, cotter, 3/32" x 1"	
7	70624488	1	BLOCK, retaining, left arm cushion (1/2"NC)	
8	70082372	1	BOX, right battery	
9	70082371	1	BOX, left battery	
10	70084029	1	BRACE, battery box	
11	70035018	6	CAPSCREW, 1/2"NF x 1-1/2"	
12	70064531	6	WASHER, plain	
	70904208	6	LOCKWASHER, 1/2"	
	70911043	6	NUT, 1/2"NF	
13	70065242	1	COVER, right battery box	
14	70035018	8	CAPSCREW, 1/2"NF x 1-1/2"	
	70904208	8	LOCKWASHER, 1/2"	
15	70064531	8	WASHER, plain	
16	70065241	1	COVER, left battery box	
17	70035018	8	CAPSCREW, 1/2"NF x 1-1/2"	
	70904208	8	LOCKWASHER, 1/2"	
18	70064531	8	WASHER, plain	
19	70073225	1	*BOX, tool	
20	70035018	3	CAPSCREW, 1/2"NF x 1-1/2"	
21	70064531	6	WASHER, plain	
	70910244	3	WASHER, plain, SAE std., 1/2" (spacing)	
	70904208	3	LOCKWASHER, 1/2"	
	70911043	3	NUT, 1/2"NF	
22	70073222	1	*FRAME, seat	
23	-----	-	PLATE AND TRANSFERS (See PAINTING AND MARKING)	

*These items discontinued as standard equipment effective with tractor serial No. 5763 due to adoption of Bucket Seat as standard.



BUCKET SEAT (First type. HD16A, AC, D, DC)

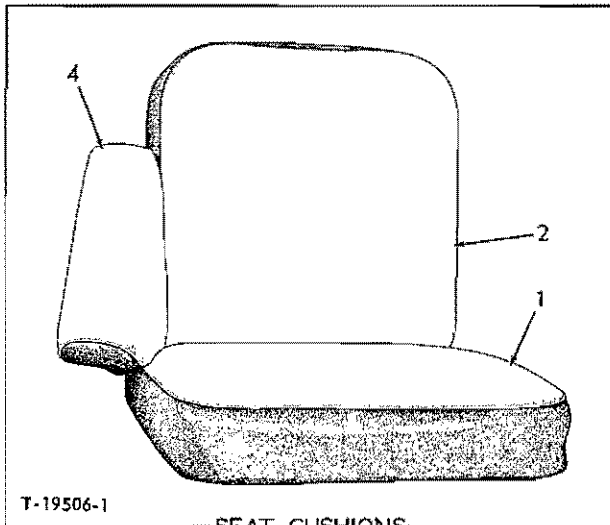
T-33479

BUCKET SEAT

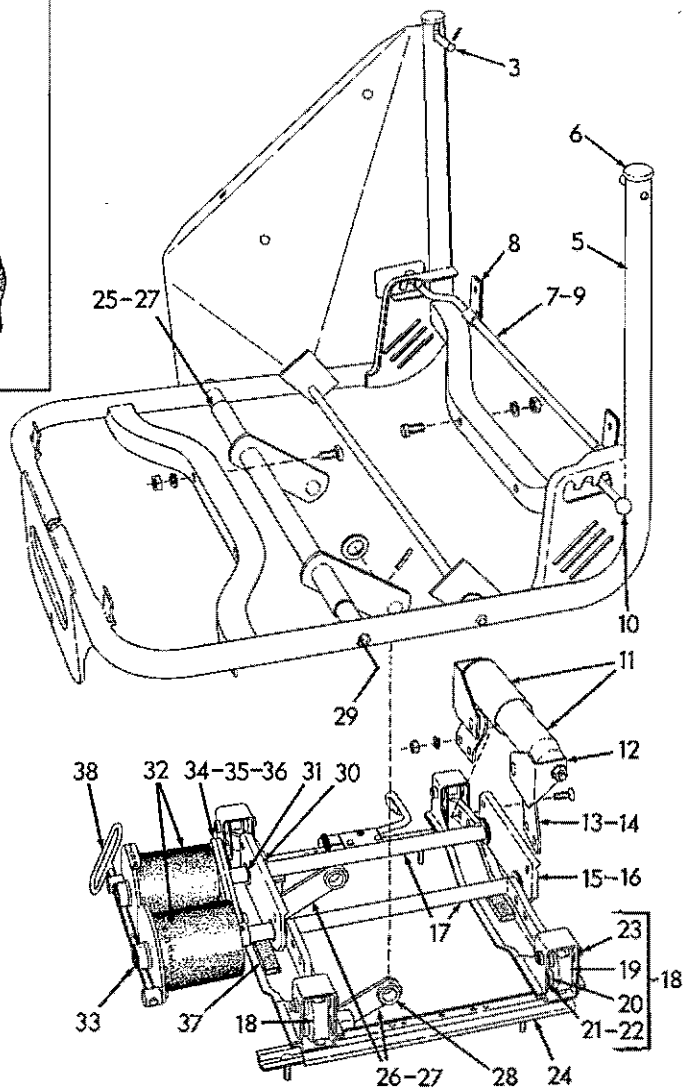
USAGE: Optional Equipment. For Models HD16A, AC, D, DC prior to September 1961

* Tractors prior to serial No. 5154, excluding No. 5104
 ** Tractors serial No. 5154 and up, including No. 5104

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70092679	1	1	SEAT ASSY. (Includes NUT and LOCKWASHER indented below. See page 506 for parts){Order 1 each SEAT ASSY. 70622493, BRACKET 70624056 and NUT 70911035; 2 each WASHER 70064531 and BLOCK 70095307; 3 CAPSCREWS 70035190; 4 CAPSCREWS 70070467 and 5 LOCKWASHERS 70904208}
	70910335	4	4	WASHER, plain, SAE std., 5/16"
	70904205	4	4	LOCKWASHER, 5/16"
	70910323	4	4	NUT, 5/16"NC
2	-----	1	-	SUPPORT, seat (Order FRAME ASSEMBLY 70627345)
	70627345	-	1	FRAME ASSEMBLY, seat (Consists of items 9 thru 18)
3	70035190	2	2	CAPSCREW, 1/2"NC x 1-1/2"
4	70037431	2	2	CAPSCREW, 1/2"NC x 4"
	70904208	4	4	LOCKWASHER, 1/2"
	70911035	1	1	NUT, 1/2"NC
5	70064531	4	4	WASHER, plain (1-1/8"O. D.)
6	70092163	1	1	WASHER, plain (1-3/4"O. D.)
7	70092684	2	2	BLOCK, spacing
8	70052949	1	1	BLOCK, tapped (Requires welding to left rear fender)
9	70627343	-	1	CHANNEL, seat frame, upper
10	70627329	-	2	PIN, pivot
	70900805	-	4	PIN, cotter, 1/8" x 3/4"
11	70627341	-	1	ROD, seat latching
	70916001	-	1	PIN, roll, 3/16" x 1"
12	70627340	-	1	SLEEVE, seat latching rod
13	70090487	-	1	SPRING, seat latching rod
14	70047063	-	1	WASHER, spring retaining
15	70627339	-	1	CHANNEL, seat frame, lower
16	70035018	-	2	CAPSCREW, 1/2"NF x 1-1/2"
17	70064531	-	2	WASHER, plain
	70904208	-	2	LOCKWASHER, 1/2"
	70911043	-	2	NUT, 1/2"NF
18	70627360	-	1	SUPPORT, seat



SEAT CUSHIONS



SEAT ASSEMBLY 70092679

T-19507

USAGE: See page 505

ITEM	PART NO.	QTY.	DESCRIPTION
1	70094271	1	CUSHION, seat
2	70094272	1	CUSHION, back
	70900576	2	SCREW, machine, 1/4"NC x 3/4"
	70904204	2	LOCKWASHER, 1/4"

(Continued)

SEAT ASSEMBLY 70092679 (Continued)

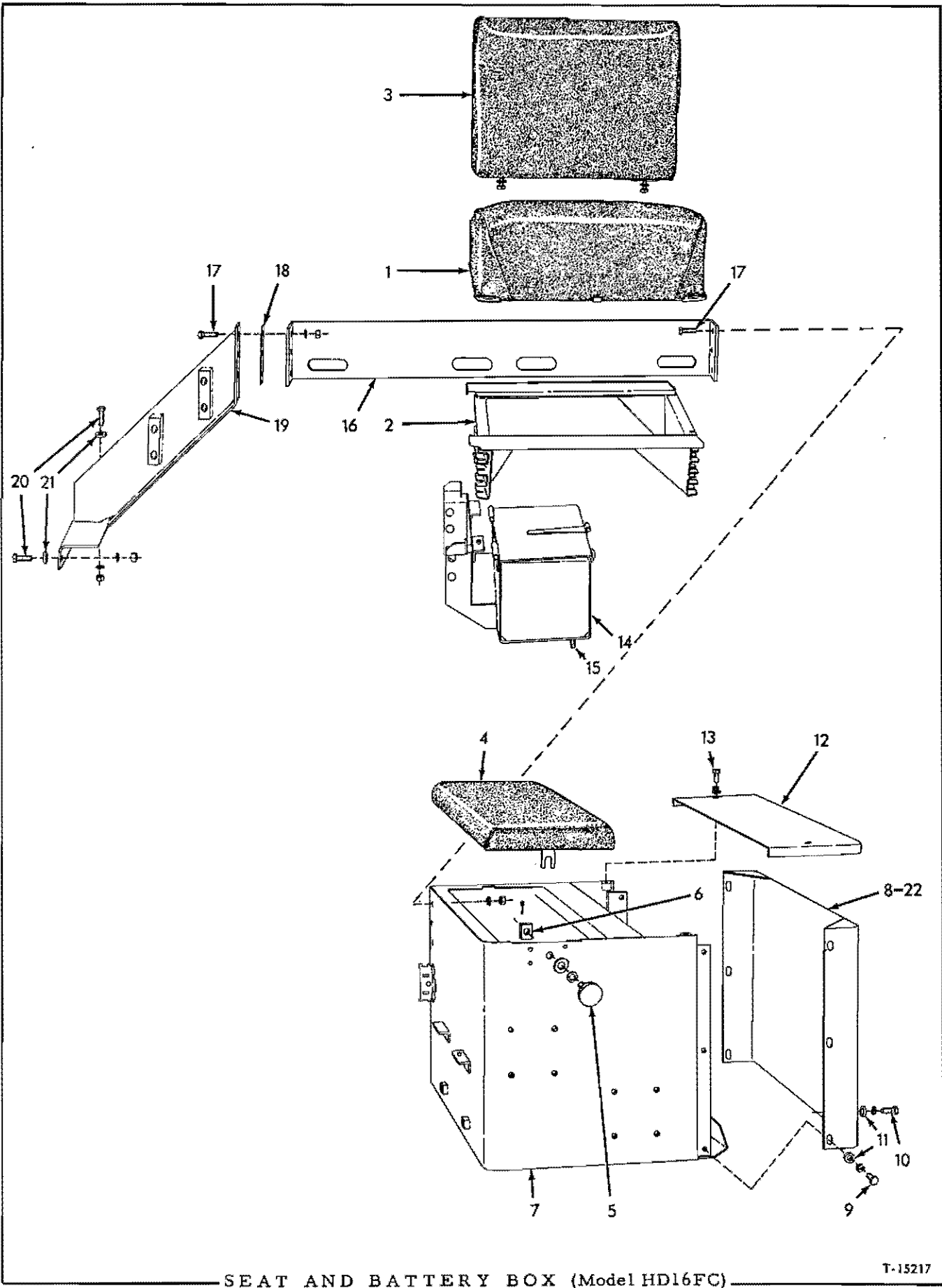
ITEM	PART NO.	QTY.	DESCRIPTION
3	70094277	2	PIN, clevis, back cushion
	70916202	2	PIN, roll, 1/8" x 7/8"
4	70094273	1	CUSHION, right arm
	70900561	3	SCREW, machine, 5/16"NC x 3/4"
	70904205	3	LOCKWASHER, 5/16"
5	70094251	1	FRAME ASSY. (Includes seat cushion adjustment)
6	70094274	2	PLUG, button, frame top
7	70094268	1	ROD ASSY., adjusting, back cushion (Includes items 8 and 9)
8	70094269	2	BRACKET, back cushion adjusting rod
9	70094270	1	SPRING, torsion, adjusting rod
10	70094275	2	HANDLE, adjusting rod (plastic)
11	70094246	1	ABSORBER ASSY., shock (Serviced only as a unit)
	70904206	2	LOCKWASHER, 3/8"
	70910123	2	NUT, 3/8"NF
12	70094249	1	BRACKET ASSY., shock absorber, left (Includes pivot pin)
	70094250	1	BRACKET ASSY., shock absorber, right (Includes pivot pin)
	70900805	2	PIN, cotter, 1/8" x 3/4"
13	70094247	1	BRACKET ASSY., pivot, left (Includes item 14)
	70094248	1	BRACKET ASSY., pivot, right (Includes item 14)
	70914814	4	SCREW, machine, fl-hd., 3/8"NC x 1"
	70904206	4	LOCKWASHER, 3/8"
	70911026	4	NUT, 3/8"NC
14	70094314	4	BEARING, pivot bracket
15	70094262	1	BULKHEAD ASSY., rear (Includes item 16)
	70903629	2	CAPSCREW, 3/8"NC x 3/4"
	70904206	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
16	70094261	2	BEARING, rear bulkhead
17	70094253	1	SHAFT AND ARM, spring, left
	70094254	1	SHAFT AND ARM, spring, right
18	70094255	4	KIT, short link (Consists of items 19 thru 23)
19	-----	4	LINK, short (Not serviced. Order item 18)
20	70094256	16	BEARING, short link
21	70094259	4	PIN, lower (1/2" x 1-1/4"
22	70094257	4	WASHER, thrust, lower pin
23	70094258	4	PIN, pivot (1/2" x 2-1/8")
24	70094252	1	BRACKET ASSY., base (Includes slide rails and adjusting lever)
25	70094242	1	YOKE ASSY., upper (Includes item 27)
	70916001	2	PIN, roll, 3/16" x 1"
	70913092	2	WASHER, plain, 25/32" I. D.
26	70094244	1	YOKE ASSY., lower (Includes items 27 and 28)
27	70094243	4	BEARING, yoke (1/2" I. D.)
28	70094245	2	BEARING, yoke (3/4" I. D.)
29	70094278	4	PIN, drive, upper and lower yoke

(Continued)

SEAT ASSEMBLY 70092679 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
30	70094260	1	BULKHEAD ASSEMBLY, center (Includes item 31)
	70903629	2	CAPSCREW, 3/8"NC x 3/4"
	70904206	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
31	70094261	2	BEARING, bulkhead
32	70094263	1	SPRING ASSY., rubber, left (Serviced only as a unit. Includes item 33)
	70094264	1	SPRING ASSY., rubber, right (Serviced only as a unit. (Includes item 33)
	70917977	2	PIN, roll, 1/4" x 1-3/16"
33	70094265	2	BEARING, rubber spring
34	70094266	1	KIT, stabilizing link (Consists of items 35 and 36)
35	-----	1	LINK ASSY., (Not serviced. Order item 34)
	70910244	2	WASHER, plain, SAE std., 1/2"
	70916202	2	PIN, roll, 1/8" x 7/8"
36	70094332	2	BEARING, stabilizing link
37	70094276	2	BUMPER, rubber
38	70094267	1	STUD ASSY., weight adjusting (Includes swivel pin)
	70916202	2	PIN, roll, 1/8" x 7/8"

MEMO



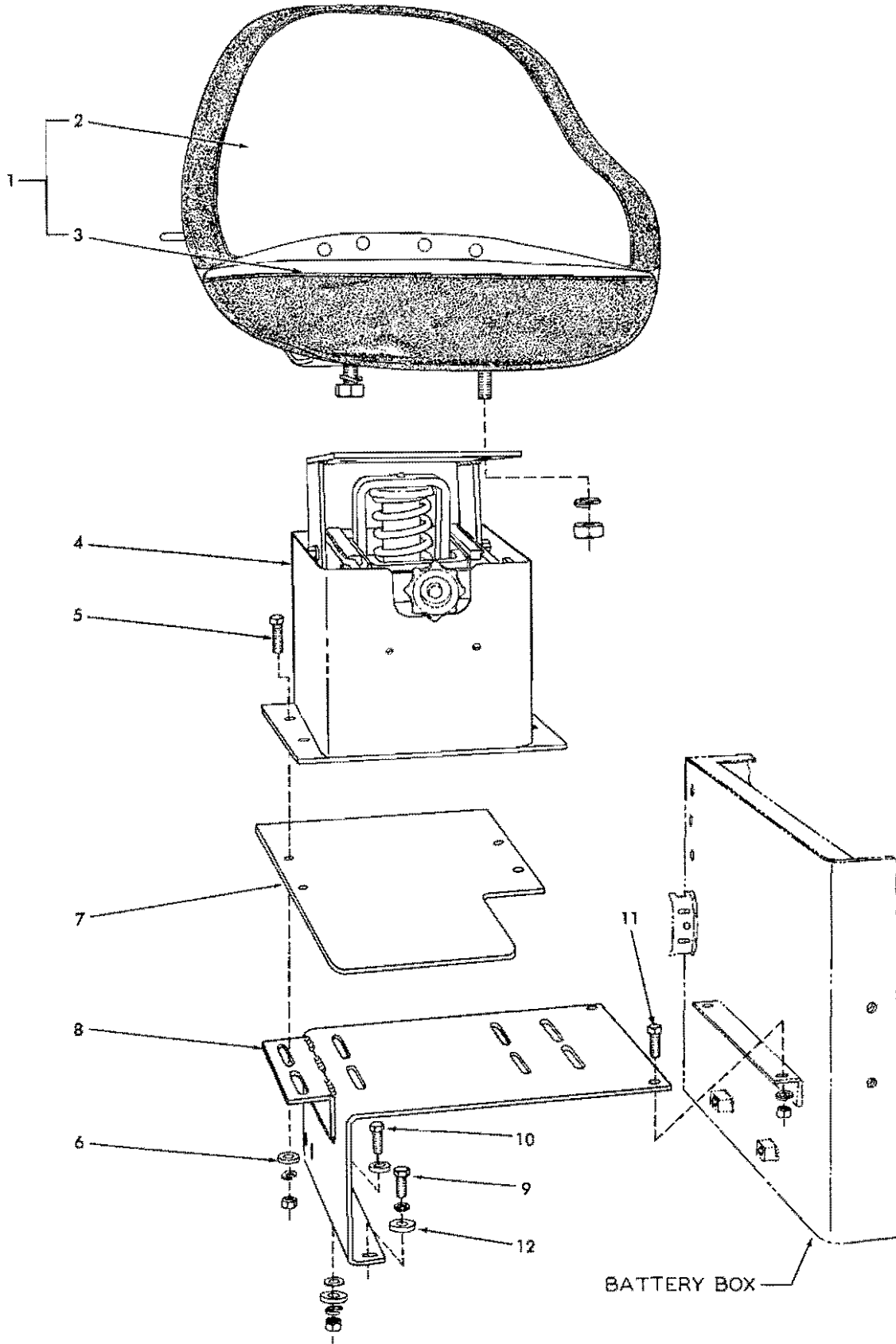
SEAT AND BATTERY BOX (Model HD16FC)

T-15217

SEAT AND BATTERY BOX

USAGE: Model HD16FC

ITEM	PART NO.	QTY.	DESCRIPTION
1	70083261	1	CUSHION, seat
2	70073222	1	FRAME
3	70083262	1	CUSHION, back (Includes NUTS indented below)
	70910244	2	WASHER, plain, SAE std., 1/2"
	70910882	2	NUT, square, 1/2"NC
4	70083263	1	CUSHION, arm
5	70050510	1	CAPSCREW, arm cushion retaining (1/2"NF x 1-1/2")(Used prior to tractor #4001)
	70904208	1	LOCKWASHER, 1/2"
	70900802	1	PIN, cotter, 3/32" x 1"
5	70091976	1	KNOB, arm cushion retaining (Effective with tractor #4001)
	70904208	1	LOCKWASHER, 1/2"
	70910244	1	WASHER, plain, SAE std., 1/2"
	70900802	1	PIN, cotter, 3/32" x 1"
6	70050551	1	BLOCK, tapped, cushion retaining capscrew (1/2"NF)(Used prior to tractor #4001)
	70624488	1	BLOCK, tapped, cushion retaining knob (1/2"NC)(Effective with tractor #4001)
7	70085740	1	BOX, battery
8	70080207	1	COVER, battery box side
9	70070469	6	CAPSCREW, 1/2"NF x 1-1/4"
10	70035018	2	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	8	LOCKWASHER, 1/2"
11	70064531	8	WASHER, plain
12	70089336	1	COVER, battery box top
13	70070469	2	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	2	LOCKWASHER, 1/2"
	70900818	2	WASHER, plain, U.S. std., 1/2"
14	70073225	1	BOX, tool
15	70035018	2	CAPSCREW, 1/2"NF x 1-1/2" (front)
	70035073	2	CAPSCREW, 1/2"NF x 1-3/4" (rear)
	70064531	6	WASHER, plain
	70904208	4	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
	70900818	2	WASHER, plain, U.S. std., 1/2" (spacing) } rear cap-screws
16	70084029	1	BRACE, battery box
17	70035018	5	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	5	LOCKWASHER, 1/2"
	70911043	5	NUT, 1/2"NF
18	70087472	3	SHIM, battery box brace (Use as req'd)
19	70089290	1	BRACKET, battery box brace (Used prior to tractor #4001)
	70094958	1	BRACKET, battery box brace (Effective with tractor #4001)
20	70035018	2	CAPSCREW, 1/2"NF x 1-1/2"
21	70064531	2	WASHER, plain
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
22	-----	-	PLATE and TRANSFERS (See PAINTING AND MARKING)



SEAT (First type, HD16GC)

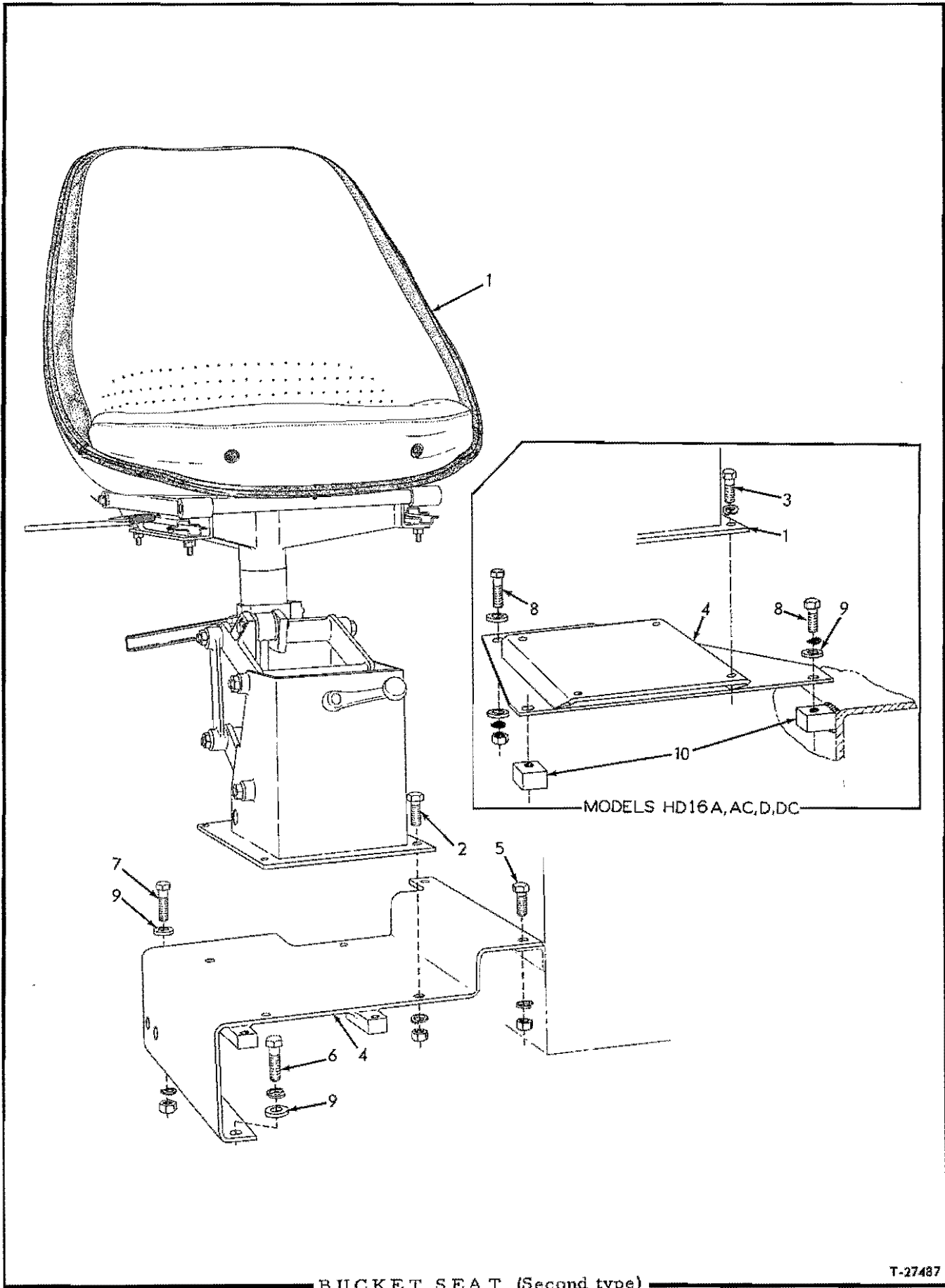
T-24031

SEAT

USAGE: Model HD16GC tractors prior to serial No. 5190

ITEM PART NO. QTY. DESCRIPTION

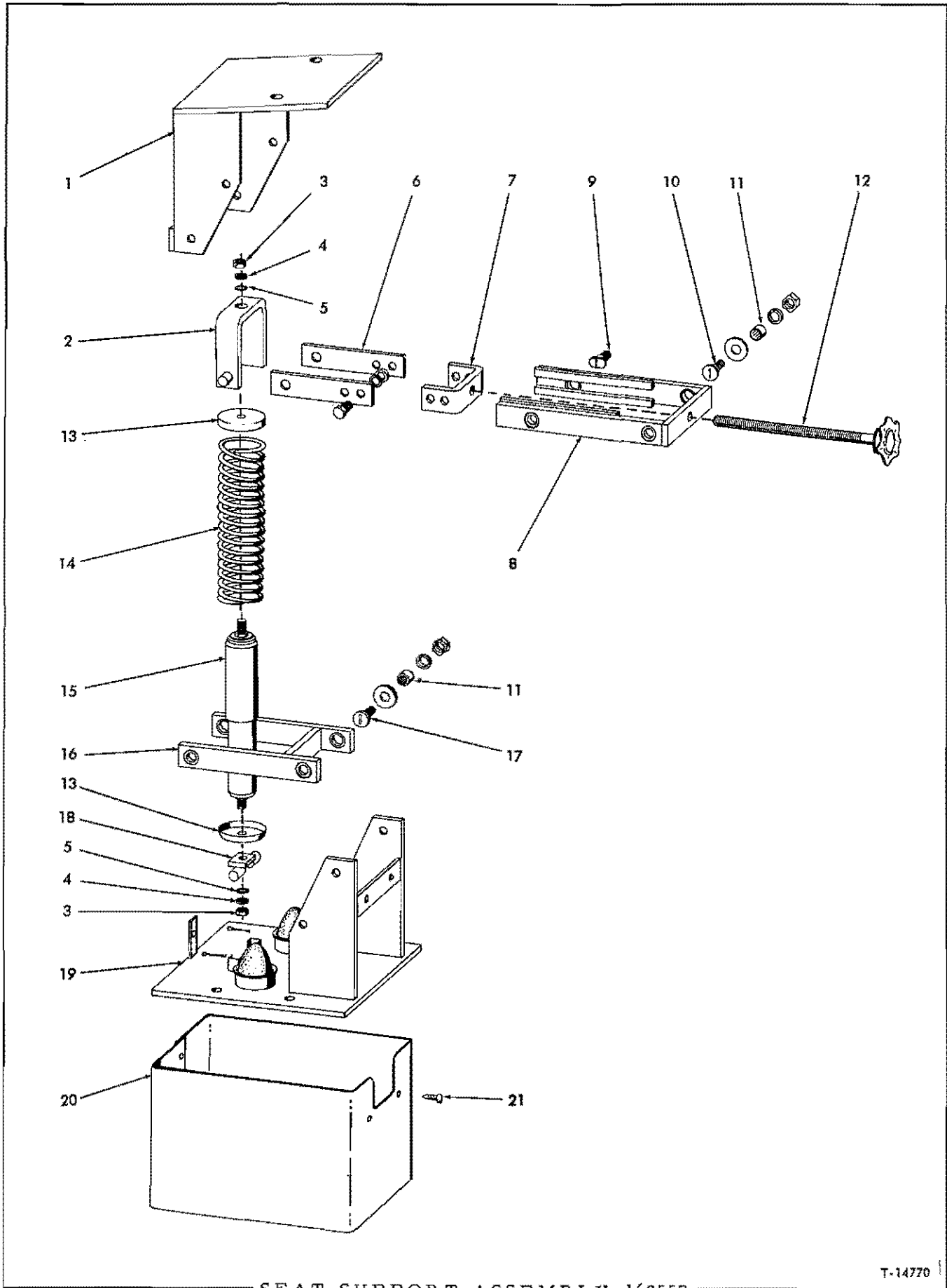
	-----	1	SEAT (Includes integral cushions; also NUT and LOCKWASHER indented below)(Used prior to tractor #4640. Order SEAT ASSEMBLY 70182671)
1	70904369	2	LOCKWASHER, 3/4"
	70900408	2	NUT, square, 3/4"NC
	70182671	1	SEAT ASSEMBLY (Includes items 2 and 3; also NUT and LOCKWASHER indented below)(Effective with tractor #4640)
	70904369	2	LOCKWASHER, 3/4"
	70910923	2	NUT, hex, 3/4"NC
2	70182718	1	CUSHION, back (Effective with tractor #4640)
	70916268	3	CAPSCREW, 3/8"NC x 5/8"
3	70182719	1	CUSHION, seat (Effective with tractor #4640)
	70916268	2	CAPSCREW, 3/8"NC x 5/8"
4	70169557	1	SUPPORT ASSEMBLY, seat (See page 517 for parts)
5	70035073	4	CAPSCREW, 1/2"NF x 1-3/4"
6	70064531	4	WASHER, plain
	70904208	4	LOCKWASHER, 1/2"
	70911043	4	NUT, 1/2"NF
7	-----	1	PLATE, foot rest (Discontinued)
8	70089964	1	PLATE, seat support
9	70035236	1	CAPSCREW, 1/2"NC x 1-3/4"
10	70035018	1	CAPSCREW, 1/2"NF x 1-1/2"
11	70070469	2	CAPSCREW, 1/2"NF x 1-1/4"
12	70064531	3	WASHER, plain
	70904208	4	LOCKWASHER, 1/2"
	70911043	3	NUT, 1/2"NF
	70900818	1	WASHER, plain, U.S. std., 1/2" (spacing)



BUCKET SEAT

* Model HD16GC tractors effective with serial No. 5190
 ** Optional equipment on Models HD16A, AC, D, DC effective
 September 1961. Adopted as standard equipment effective
 with tractor serial No. 5763.

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70622493	1	1	SEAT ASSEMBLY (See page 519 for parts)(Original equipment)
	70644748	1	1	SEAT ASSEMBLY (See page 521 for parts)(Service replacement for SEAT ASSEMBLY 70622493)
	70645563	1	1	SEAT ASSEMBLY (See page 521 for parts)(Same as SEAT ASSEMBLY 70644748 except has fire-resistant cover)
2	70070469	4	-	CAPSCREW, 1/2"NF x 1-1/4"
3	70070467	-	4	CAPSCREW, 1/2"NF x 1"
	70904208	4	4	LOCKWASHER, 1/2"
	70911043	4	-	NUT, 1/2"NF
4	70622492	1	-	BRACKET, mounting
	70624056	-	1	BRACKET, mounting
5	70070469	2	-	CAPSCREW, 1/2"NF x 1-1/4"
6	70035236	1	-	CAPSCREW, 1/2"NC x 1-3/4"
7	70035018	1	-	CAPSCREW, 1/2"NF x 1-1/2"
8	70035190	-	4	CAPSCREW, 1/2"NC x 1-1/2"
9	70064531	3	6	WASHER, plain
	70904208	4	4	LOCKWASHER, 1/2"
	70911043	3	-	NUT, 1/2"NF
	70911035	-	2	NUT, 1/2"NC
10	70095307	-	2	BLOCK, tapped (Requires welding to install)



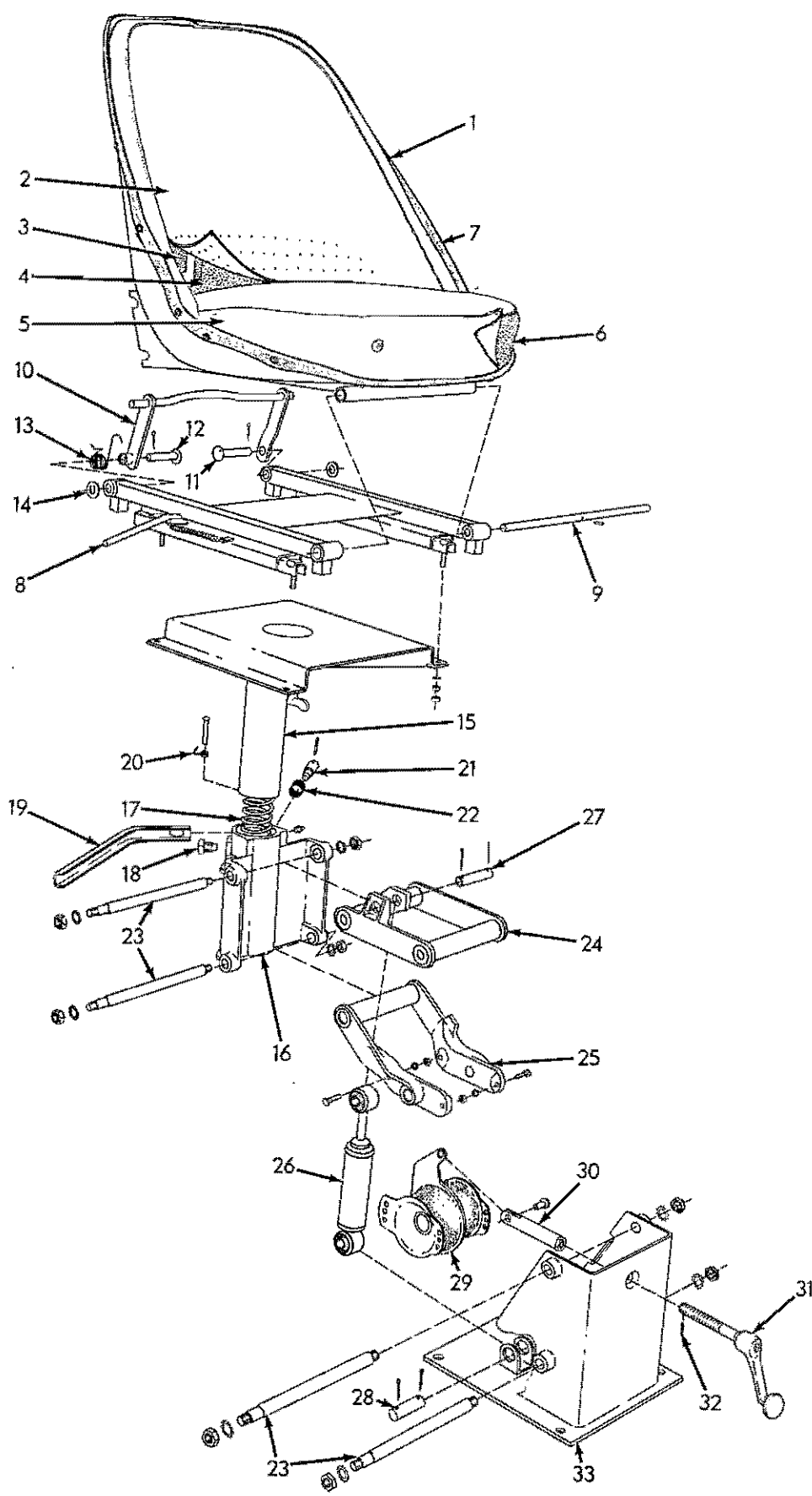
SEAT SUPPORT ASSEMBLY 169557

T-14770

SEAT SUPPORT ASSEMBLY 70169557

USAGE: See page 513

ITEM	PART NO.	QTY.	DESCRIPTION
1	70169803	1	PLATE, seat mounting
2	70169805	1	CLEVIS, seat adjusting
3	70169808	2	LOCKNUT, shock absorber
4	70169809	2	WASHER, plain
5	70169810	2	GASKET (rubber)
6	70169815	2	PLATE, yoke
	70915228	4	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	4	LOCKWASHER, 3/8"
	70910123	4	NUT, 3/8"NF
7	70169816	1	YOKE, seat adjusting
8	70169801	1	ARM ASSEMBLY, upper (Includes item 11)
9	70169821	2	BOLT
10	70169819	2	BOLT
	70913289	4	WASHER, plain, U.S. std., 9/16"
	70904208	4	LOCKWASHER, 1/2"
	70910195	4	NUT, 1/2"NF
11	70800781	8	BEARING, needle
12	70169804	1	SCREW, seat adjusting
13	70169814	2	CUP, shock absorber spring
14	70169818	1	SPRING, shock absorber
15	70169812	1	ABSORBER, shock
16	70169802	1	ARM ASSEMBLY, lower (Includes item 11)
17	70169819	4	BOLT
	70913289	4	WASHER, plain, U.S. std., 9/16"
	70904208	4	LOCKWASHER, 1/2"
	70910195	4	NUT, 1/2"NF
18	70169806	1	ROCKER, shock absorber
	70900803	2	PIN, cotter, 3/32" x 1-1/4"
19	70169807	1	PLATE, base
20	70169822	1	SHIELD
21	70913300	5	SCREW, thread-cutting, slotted rd-hd., #12 x 1/2"



SEAT ASSEMBLY 622493

T-33480

SEAT ASSEMBLY 70622493

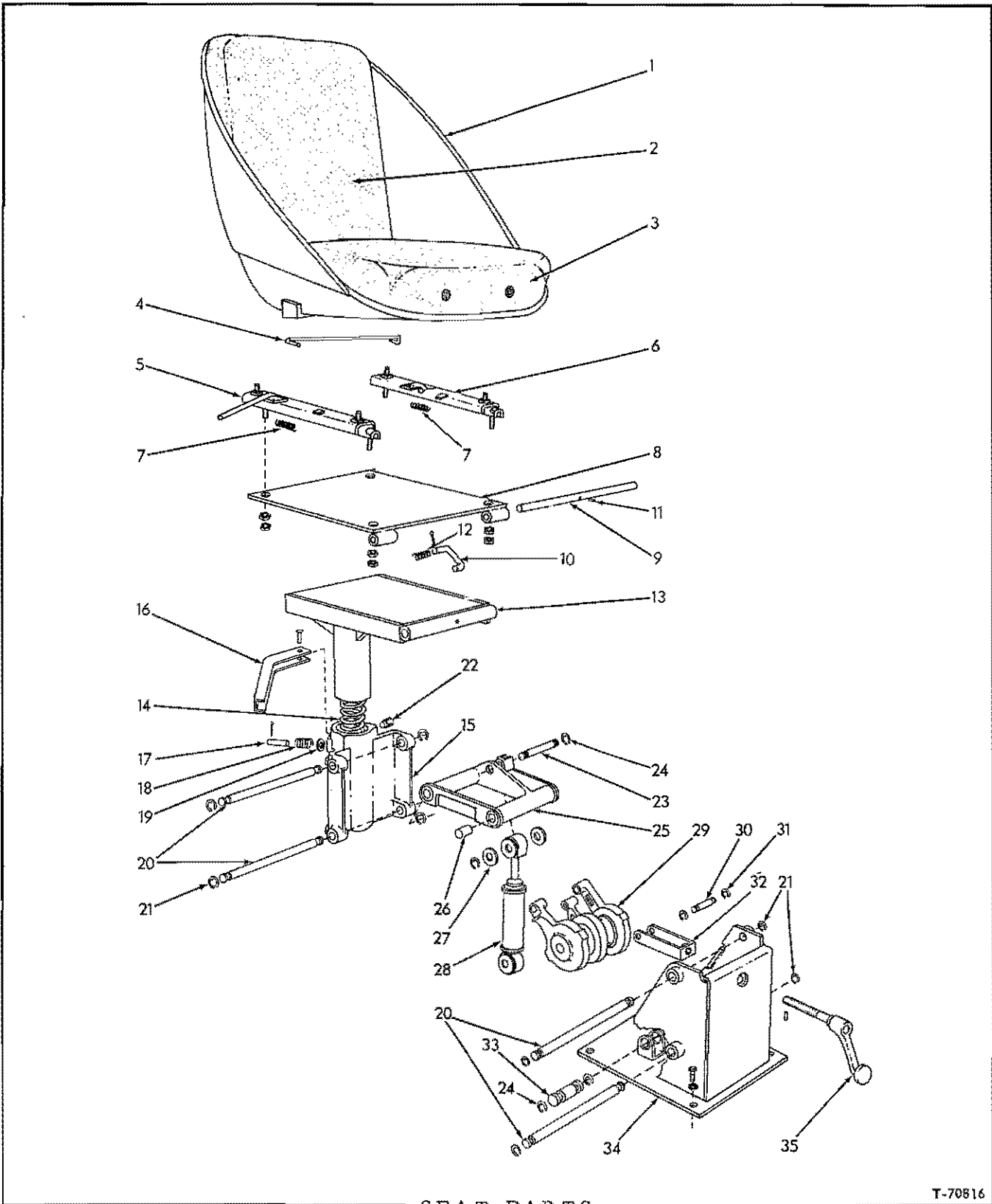
USAGE: See page 515

ITEM	PART NO.	QTY.	DESCRIPTION
1	70628006	1	SEAT (Includes items 2 thru 7)
2	70628112	1	COVER, back cushion
3	70628113	1	FILLER, back cushion
4	70628111	1	PAD, seat back
5	70628110	1	COVER, seat cushion
6	70628109	1	FILLER, seat cushion
7	70628114	6	MOLDING, seat frame
8	70627481	1	SLIDE ADJUSTER ASSEMBLY (Serviced only as a unit)
	70904205	4	LOCKWASHER, 5/16"
	70913636	8	NUT, 5/16"NF
9	70627480	1	SHAFT, slide adjuster
	70920335	1	PIN, roll, 5/32" x 1-1/8"
10	70627499	1	LEVER, release
11	70628002	1	PIN, release lever, left side
	70900802	1	PIN, cotter, 3/32" x 1"
12	70628004	1	PIN, release lever, right side
	70900802	1	PIN, cotter, 3/32" x 1"
13	70628003	1	SPRING, release lever
14	70628001	2	WASHER, release lever pins
15	70627482	1	SUPPORT, seat
16	70627489	1	COLUMN, seat support
	70914465	1	FITTING, lubricating, straight, 1/8"NPT
17	70628005	1	SPRING, seat support
18	70627498	1	SCREW, locking, seat support column
19	70627484	1	LEVER, height adjustment
	70911452	1	RIVET, button-hd., 3/8" x 1"
20	70627485	1	SPRING, adjustment lever
21	70627487	1	PIN, adjustment lever
	70900802	1	PIN, cotter, 3/32" x 1"
22	70627486	1	SPRING, adjustment lever pin
23	70627491	4	SHAFT, suspension levers
	70910210	8	LOCKWASHER, ext-tooth, 1/2"
	70911035	8	NUT, jam, 1/2"NC
24	70627494	1	LEVER, suspension, upper
25	70627493	1	LEVER, suspension, lower
	70903625	4	CAPSCREW, 1/4"NC x 3/4"
	70904204	4	LOCKWASHER, 1/4"
	70911024	4	NUT, 1/4"NC
26	70627490	1	SHOCK ABSORBER
27	70627483	1	PIN, retaining, shock absorber (upper)
	70900803	2	PIN, cotter, 3/32" x 1-1/4"
28	70627492	1	PIN, retaining, shock absorber (lower)
	70900803	2	PIN, cotter, 3/32" x 1-1/4"
29	70627497	1	TORSION UNIT, rubber
30	70627488	1	LINK, adjusting crank
	70910310	1	RIVET, button-hd., 3/8" x 1"
31	70627495	1	CRANK, adjusting, torsion unit

(Continued)

SEAT ASSEMBLY 70622943(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
32	70085239	1	PIN, adjusting crank
33	70627496	1	HOUSING, torsion unit



SEAT PARTS

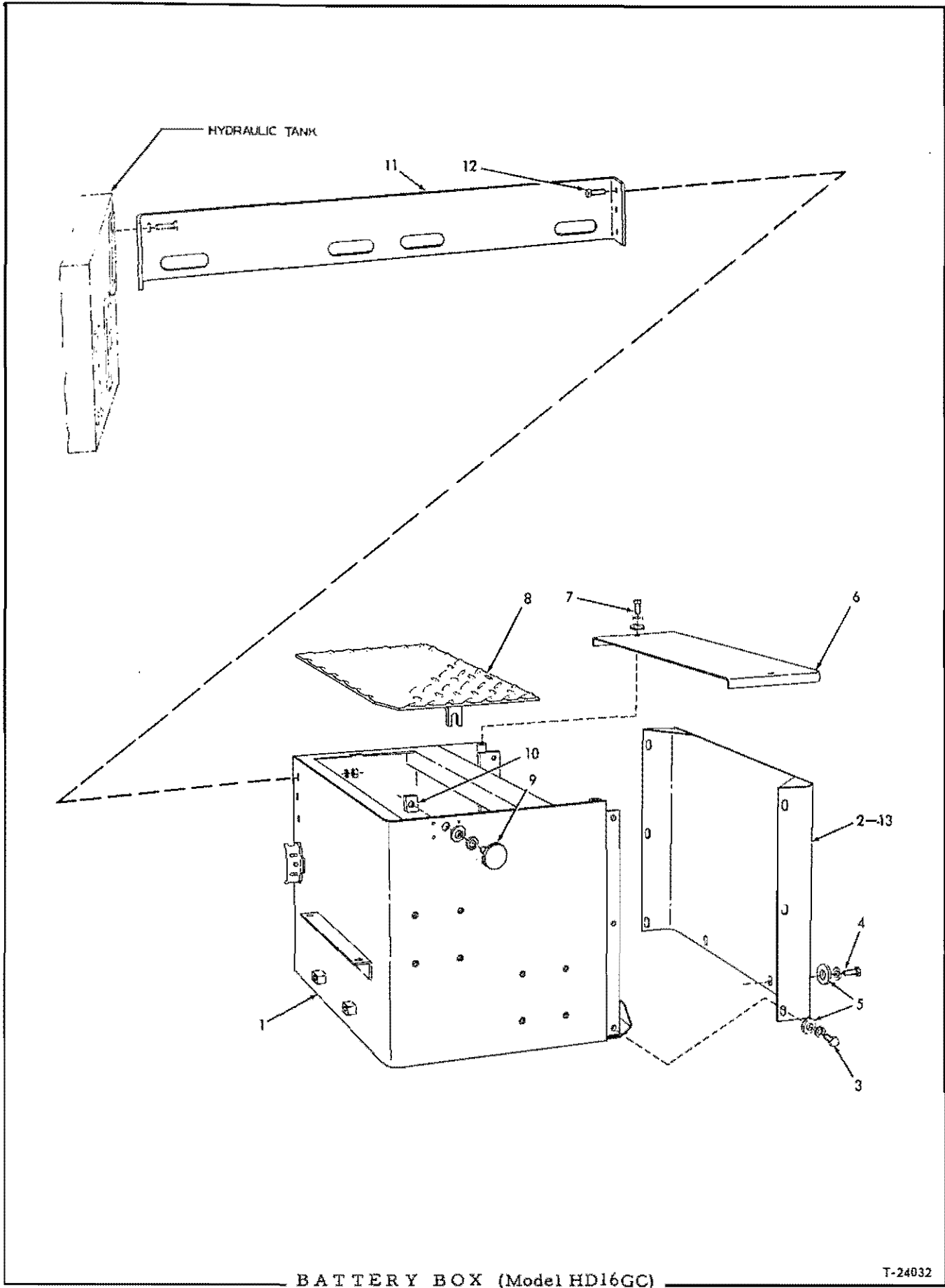
T-70816

SEAT PARTS

644748 SEAT ASSEMBLY (Standard)
 645563 SEAT ASSEMBLY (Fire-resistant) } See page 515

ITEM	PART NO.	QTY.	DESCRIPTION
1	70644749	1	SEAT ASSEMBLY (Standard)(Includes items 2 and 3)
	70645566	1	SEAT ASSEMBLY (Fire-resistant)(Includes items 2 and 3)
2	70644835	1	FILLER, back cushion
	70644839	1	COVER, back cushion (standard)
	70645584	1	COVER, back cushion (fire-resistant)
3	70628109	1	FILLER, seat cushion
	70188430	1	COVER, seat cushion (standard)
	70645692	1	COVER, seat cushion (fire-resistant)
4	70188407	1	ROD, latch
5	70188405	1	ADJUSTER ASSEMBLY, slide, right (Includes item 7)
	70914805	2	SCREW, mach., flat hd., 5/16"NC x 7/8"
6	70188406	1	ADJUSTER ASSEMBLY, slide, left (Includes item 7)
	70914805	2	SCREW, mach., flat hd., 5/16"NC x 7/8"
7	70188428	2	SPRING
8	70 644754	1	PLATE, seat mounting
	70 914321	8	NUT, jam, 5/16"NC
	70 901165	4	WASHER, plain, U.S. std., 5/16"
9	70188410	1	SHAFT, seat mounting plate
10	70188411	1	PIN, latch
	70900802	1	PIN, cotter, 3/32" x 1"
11	70188412	1	ROLLPIN, mounting plate shaft
12	70638429	1	SPRING
13	70188414	1	COLUMN, seat mounting
14	70628005	1	SPRING, compression
15	70644750	1	SUPPORT ASSEMBLY, column (Includes items 16 thru 19)
16	70644830	1	LEVER
	70911452	1	RIVET, button hd., 1/4" x 1-5/8"
17	70188433	1	PIN, index
	70900802	1	PIN, cotter, 3/32" x 1"
18	70188434	1	SPRING
19	70188436	1	WASHER
20	70188424	4	SHAFT
21	70188423	8	RING, retaining
22	70627498	1	LOCKSCREW
23	70188426	1	PIN, shock absorber, upper
24	70638351	4	RING, retaining, shock absorber pin
25	70188420	1	LEVER ASSEMBLY, upper (Includes item 26)
26	70188443	4	BEARING, upper lever
27	70644845	2	WASHER, shock absorber upper pin
28	70188415	1	ABSORBER, shock
29	70188416	1	LEVER ASSEMBLY, co-axial spring (Serviced only as a unit)
30	70188418	1	PIN, adjusting yoke

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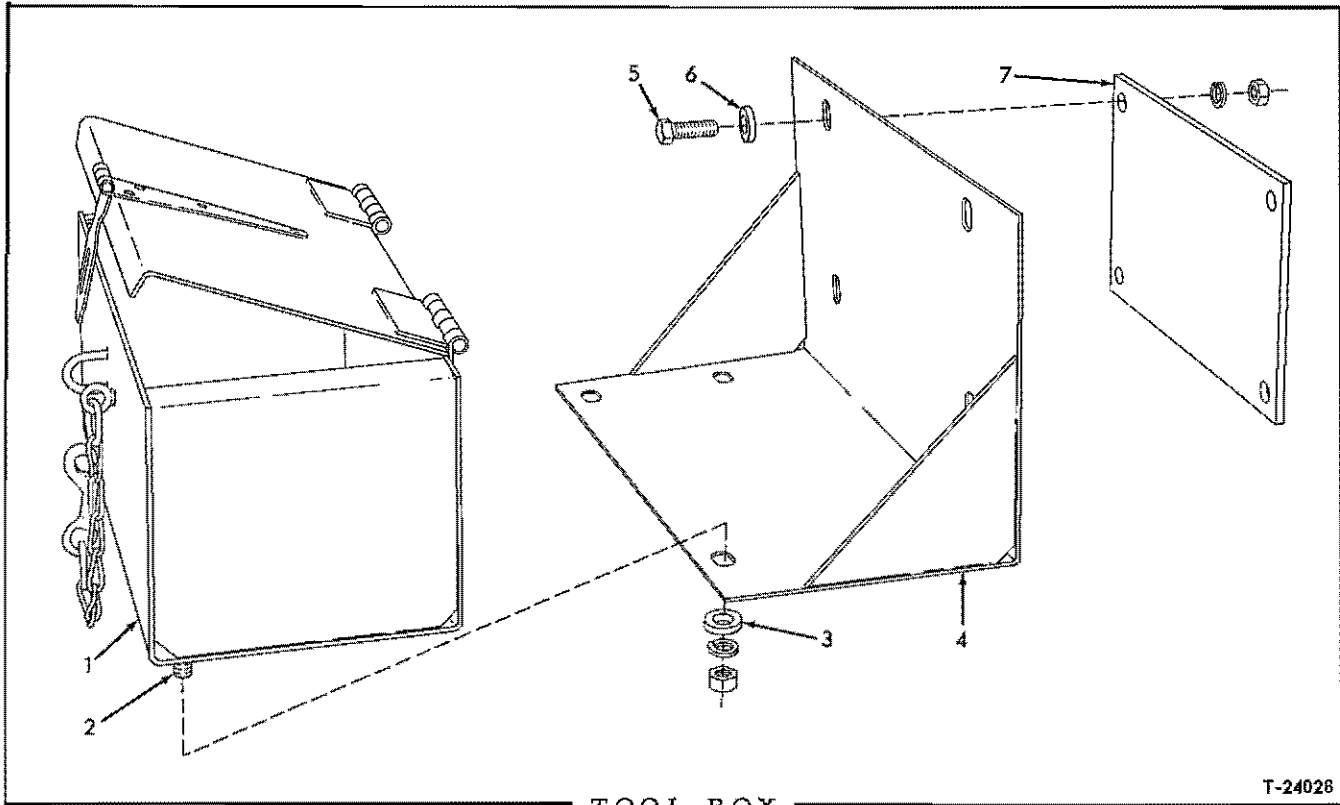
SEAT PARTS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
31	70188419	2	RING, retaining, adjusting yoke pin
32	70188421	1	YOKE, adjusting
33	70188425	1	PIN, shock absorber, lower
34	70644753	1	HOUSING, seat base
35	70627495	1	CRANK adjusting
	70910274	1	PIN, groove, 1/8" x 3/4"

BATTERY BOX

USAGE: Model HD16GC

1	70089589	1	BOX
2	70080207	1	COVER, side
3	70070469	6	CAPSCREW, 1/2"NF x 1-1/4"
4	70035018	2	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	8	LOCKWASHER, 1/2"
5	70064531	8	WASHER, plain
6	70089336	1	COVER, top
7	70070467	2	CAPSCREW, 1/2"NF x 1"
	70904208	2	LOCKWASHER, 1/2"
	70900818	2	WASHER, plain, U.S. std., 1/2"
8	70090893	1	PLATE, tread
9	70050510	1	CAPSCREW, tread plate retaining (1/2"NF x 1-1/2")(Used prior to tractor #4001)
	70904208	1	LOCKWASHER, 1/2"
	70900802	1	PIN, cotter, 3/32" x 1"
	70091976	1	KNOB, tread plate retaining (Effective with tractor #4001)
	70904208	1	LOCKWASHER, 1/2"
	70910244	1	WASHER, plain, SAE std., 1/2"
	70900802	1	PIN, cotter, 3/32" x 1"
10	70050551	1	BLOCK, tapped, plate retaining capscREW (1/2"NF)(Used prior to tractor #4001)
	70624488	1	BLOCK, tapped, plate retaining knob (1/2"NC)(Effective with tractor #4001)
11	70084029	1	BRACE, battery box
12	70035018	3	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	3	LOCKWASHER, 1/2"
	70911043	3	NUT, 1/2"NF
13	-----	-	TRANSFERS (See PAINTING AND MARKING)



TOOL BOX

T-24028

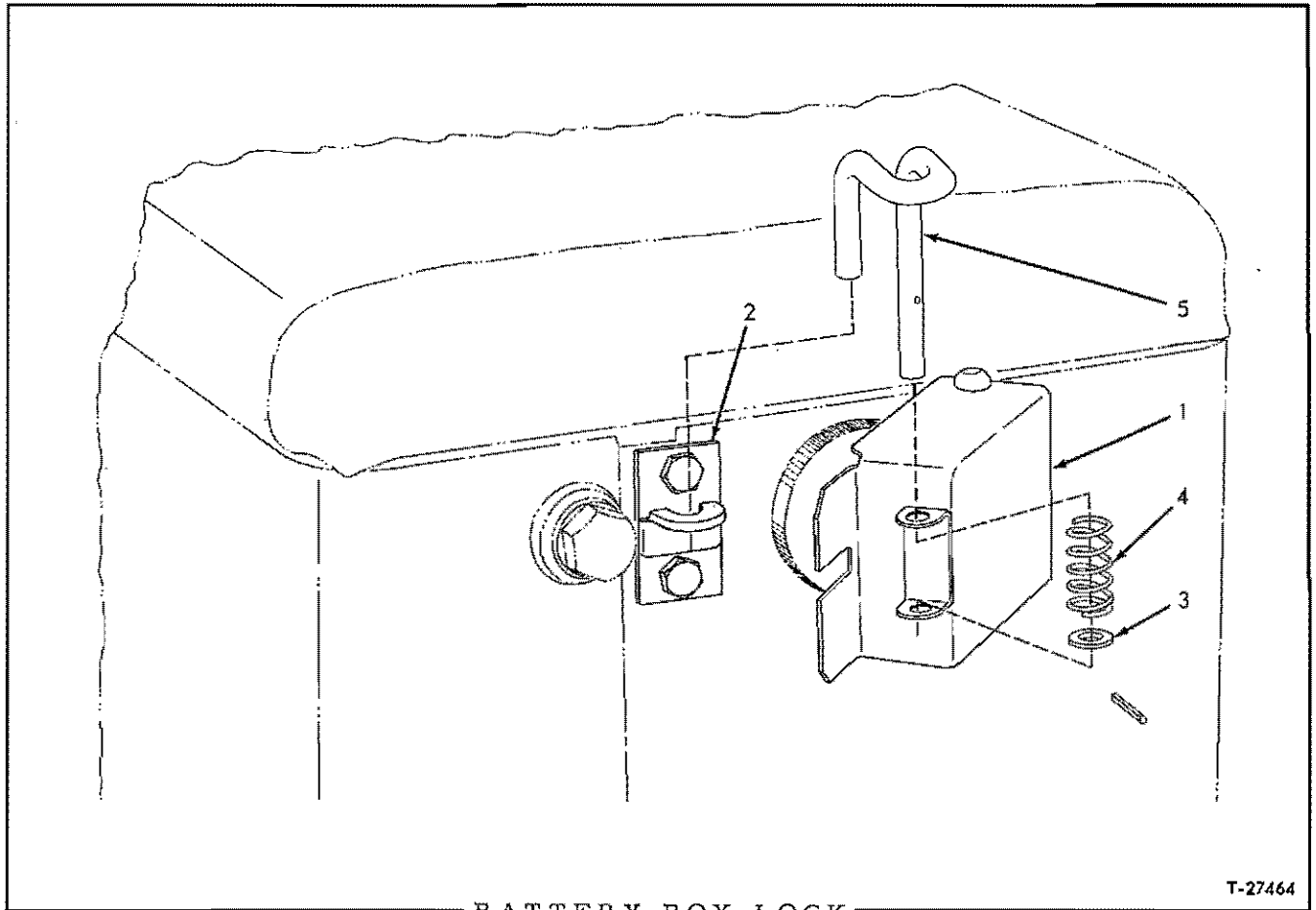
* Standard equipment on Model HD16GC

** Special equipment on Models HD16A, AC, D, DC prior to serial No. 5763. Standard equipment thereafter. Used with BUCKET SEAT only. See SEAT for Tool Box used on prior units.

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70089659	1	1	BOX, tool
2	70070469	4	-	CAPSCREW, 1/2"NF x 1-1/4"
	70035018	-	4	CAPSCREW, 1/2"NF x 1-1/2"
3	70064531	4	8	WASHER, plain (4 less used when box mounted on rear fender)
	70904208	4	4	LOCKWASHER, 1/2"
	70911043	-	4	NUT, 1/2"NF

NOTE: Items listed below are not used if tractor is equipped with heavy-duty Filters

4	70099319	-	1	BRACKET, box supporting
5	70035018	-	4	CAPSCREW, 1/2"NF x 1-1/2"
6	70064531	-	4	WASHER, plain
	70904208	-	4	LOCKWASHER, 1/2"
	70911043	-	4	NUT, 1/2"NF
7	70099310	-	1	PLATE, backing, battery box



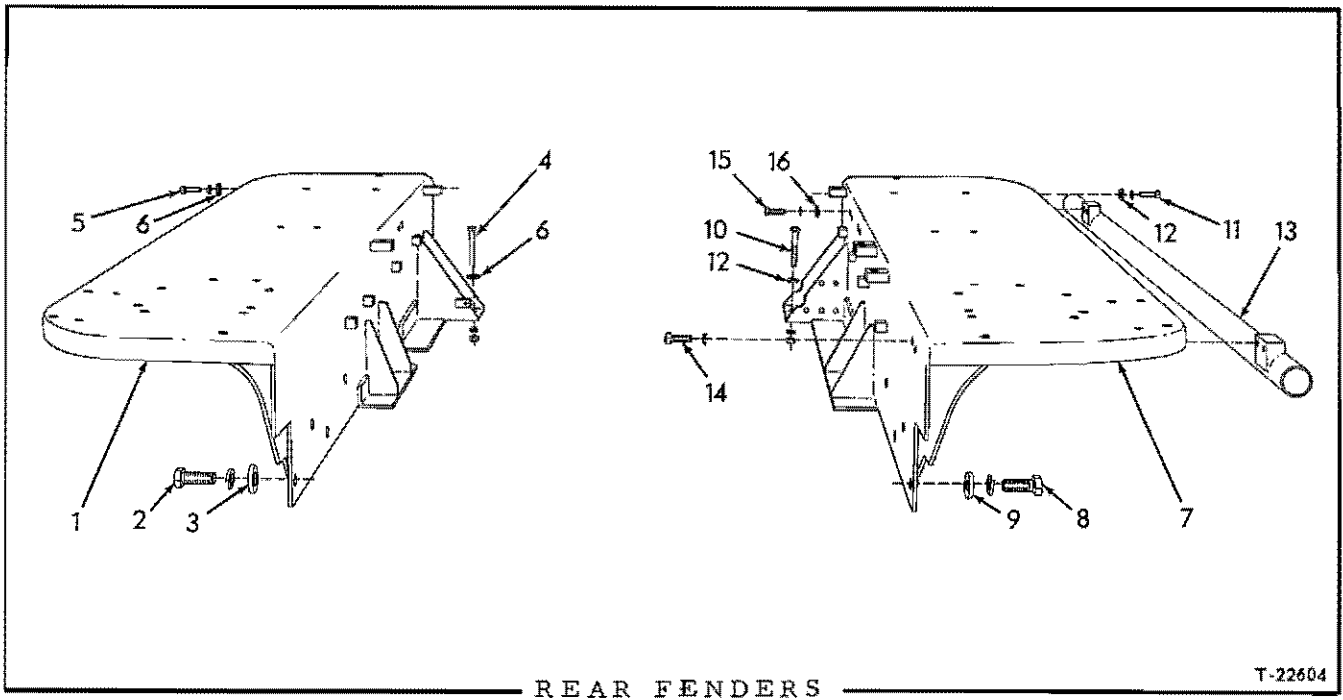
BATTERY BOX LOCK

T-27464

USAGE: Special equipment. Padlock is required to complete the installation

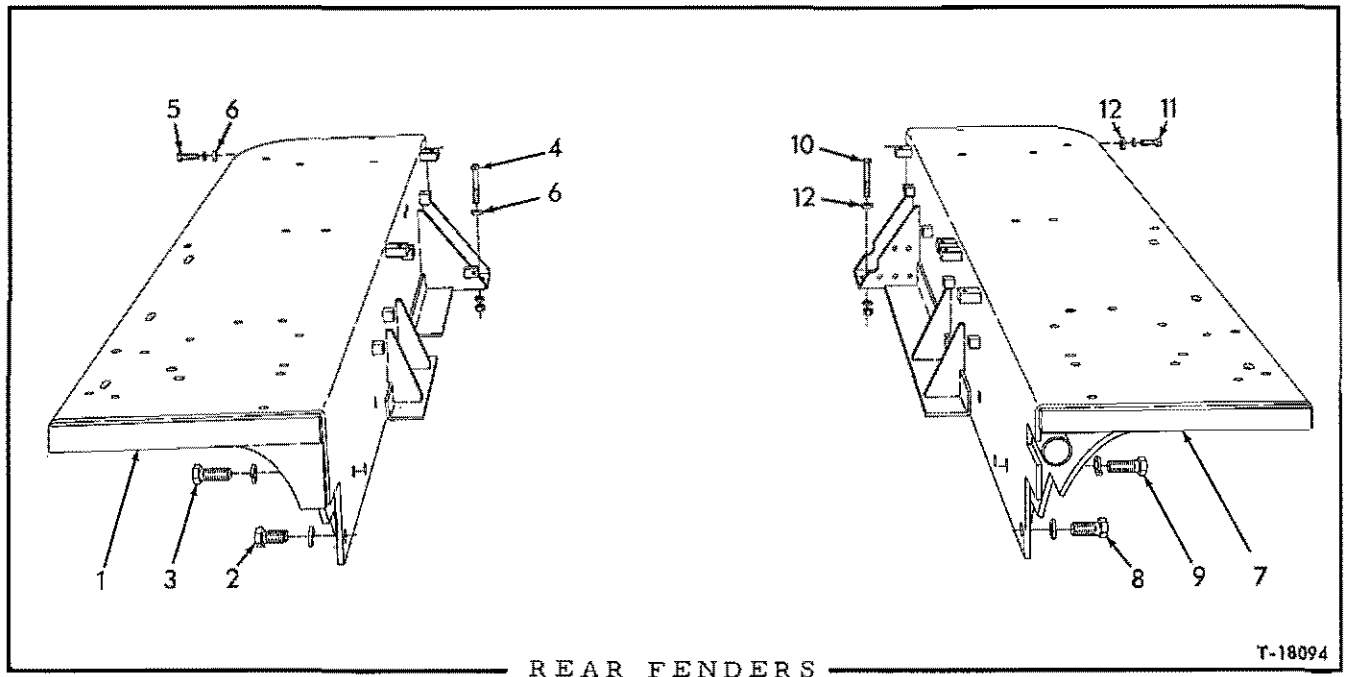
ITEM PART NO. QTY. DESCRIPTION

1	70620474	1	COVER, retaining knob
	70914330	2	CAPSCREW, 1/4"NF x 5/8"
	70904204	2	LOCKWASHER, 1/4"
	70911040	2	NUT, 1/4"NF
2	70620472	1	PLATE, latching, retaining knob cover
	70914330	2	CAPSCREW, 1/4"NF x 5/8"
	70904204	2	LOCKWASHER, 1/4"
	70911040	2	NUT, 1/4"NF
3	70607414	1	WASHER, latching spring
4	70035916	1	SPRING, latching rod
5	70621201	1	ROD, latching
	70916146	1	PIN, roll, 3/32" x 1/2"



USAGE: Models HD16A, AC, D, DC prior to tractor serial No. 4129

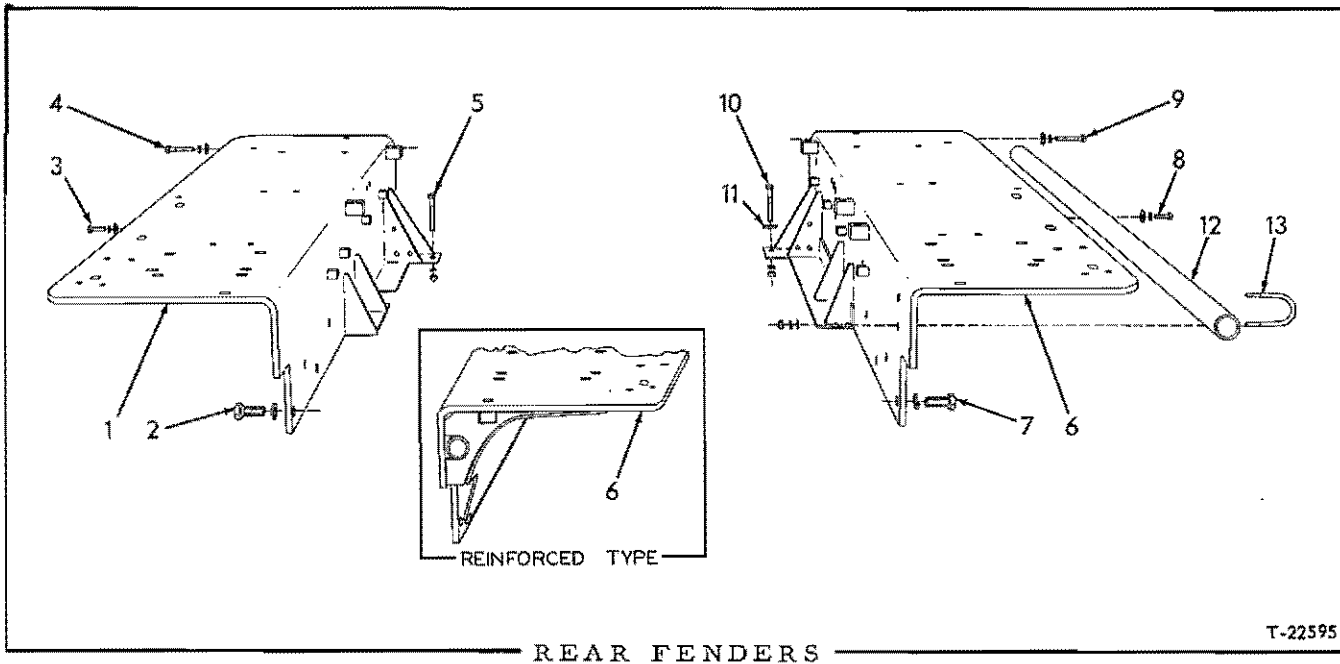
ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	FENDER, left (Order 1 FENDER 70095305, 1 CAPSCREW 70070403, 2 NUTS 70911028, 2 NUTS 70911043, 4 CAPSCREWS 70072595, 4 NUTS 70911044, 7 CAPSCREWS 70035248 and 7 WASHERS 70064810)
2	70012453	4	CAPSCREW, 3/4"NF x 2"
3	70061689	4	WASHER, plain
	70904369	4	LOCKWASHER, 3/4"
4	70042430	1	CAPSCREW, 1/2"NF x 3-1/4" (Also attaches steering clutch control hose supporting angle)
5	70035018	2	CAPSCREW, 1/2"NF x 1-1/2"
6	70064531	3	WASHER, plain
	70904208	3	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
7	-----	1	FENDER, right (Order 1 FENDER 70095306, 1 CAPSCREW 70070403, 2 NUTS 70911028, 2 NUTS 70911043, 4 CAPSCREWS 70072595, 4 NUTS 70911044, 7 CAPSCREWS 70035248 and 7 WASHERS 70064810. If for tractors equipped with cable dozer using rear-mounted control unit also order 1 PIPE 70085042, 4 U-BOLTS 70095191, 8 LOCKWASHERS 70904206, 8 WASHERS 70911115 and 8 NUTS 70911041)
8	70012453	4	CAPSCREW, 3/4"NF x 2"
9	70061689	4	WASHER, plain
	70904369	4	LOCKWASHER, 3/4"
10	70042430	1	CAPSCREW 1/2"NF x 3-1/4"
11	70035018	2	CAPSCREW, 1/2"NF x 1-1/2"
12	70064531	3	WASHER, plain.
	70904208	3	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
13	70093271	1	PIPE, cable conducting (For tractors equipped with cable dozer using rear-mounted control unit)
14	70070469	2	CAPSCREW, 1/2"NF x 1-1/4"
15	70035018	2	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	4	LOCKWASHER, 1/2"
16	70064531	2	WASHER, plain



USAGE: Special equipment. Applicable to Models HD16A, AC, D, DC prior to tractor serial No. 4129. Required when Fuel Tank and Seat Guard is installed

ITEM PART NO. QTY. DESCRIPTION

1	-----	1	FENDER, left (Order 1 FENDER 70095305, 1 CAPSCREW 70070403, 4 CAPSCREWS 70012742, 4 WASHERS 70061689, 4 NUTS 70911044, 7 CAPSCREWS 70035248 and 7 WASHERS 70064810)
2	70072396	2	CAPSCREW, 3/4"NF x 1-1/2"
3	70012453	2	CAPSCREW, 3/4"NF x 2"
	70904369	4	LOCKWASHER, 3/4"
4	70042430	1	CAPSCREW, 1/2"NF x 3-1/4" (Also attaches steering clutch control hose supporting angle)
5	70035018	2	CAPSCREW, 1/2"NF x 1-1/2"
6	70064531	3	WASHER, plain
	70904208	3	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
7	-----	1	FENDER, right (Order 1 FENDER 70095306, 1 CAPSCREW 70070403, 4 CAPSCREWS 70012742, 4 WASHERS 70061689, 4 NUTS 70911044, 7 CAPSCREWS 70035248 and 7 WASHERS 70064810. If for tractors equipped with cable dozer using rear-mounted control unit also order 1 PIPE 70085042, 4 U-BOLTS 70095191, 8 WASHERS 70911115, 8 LOCKWASHERS 70904206 and 8 NUTS 70911043)
8	70072396	2	CAPSCREW, 3/4"NF x 1-1/2"
9	70012453	2	CAPSCREW, 3/4"NF x 2"
	70904369	4	LOCKWASHER, 3/4"
10	70042430	1	CAPSCREW, 1/2"NF x 3-1/4"
11	70035018	2	CAPSCREW, 1/2"NF x 1-1/2"
12	70064531	3	WASHER, plain
	70904208	3	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF



USAGE: Models HD16A, AC, D, DC tractors effective with serial No. 4129

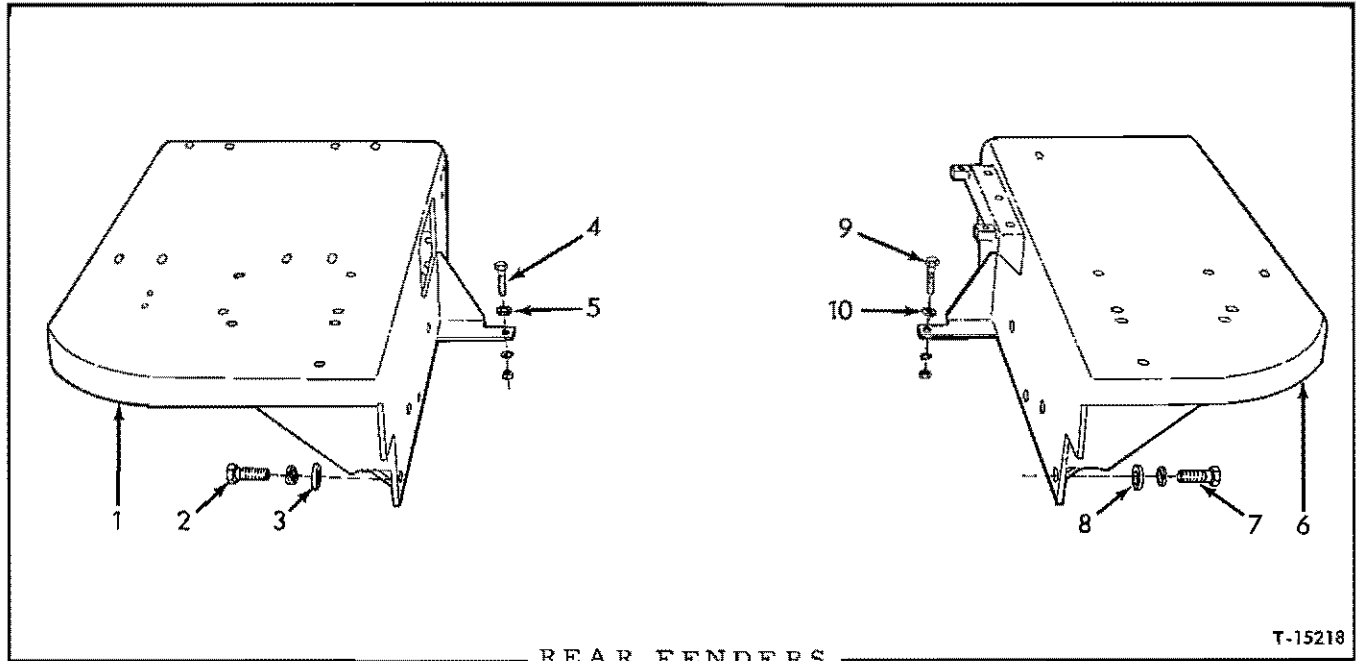
* Standard equipment
 ** Special equipment. Reinforced type for logging tractors

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70095305	1	-	FENDER, left
	70621295	-	1	FENDER, left
2	70072595	4	2	CAPSCREW, 3/4"NF x 1-3/4"
	70012742	-	2	CAPSCREW, 3/4"NF x 2-1/4"
	70904369	4	4	LOCKWASHER, 3/4"
3	70035073	1	1	CAPSCREW, 1/2"NF x 1-3/4"
4	70070403	1	1	CAPSCREW, 1/2"NF x 3"
	70904208	2	2	LOCKWASHER, 1/2"
5	70064531	2	2	WASHER, plain
	70065588	1	1	CAPSCREW, 1/2"NF x 3-1/2" (also attaches steering clutch control hose supporting angle)
	70904208	1	1	LOCKWASHER, 1/2"
	70911043	1	1	NUT, 1/2"NF
6	70095306	1	-	FENDER, right (Used prior to tractor #5154 excluding #5104)
	70623716	1	-	FENDER, right (Effective with tractor #5154 including #5104)
	70621296	-	1	FENDER, right
7	70072595	4	2	CAPSCREW, 3/4"NF x 1-3/4"
	70012742	-	2	CAPSCREW, 3/4"NF x 2-1/4"
	70904369	4	4	LOCKWASHER, 3/4"
8	70035073	1	1	CAPSCREW, 1/2"NF x 1-3/4"
9	70070403	1	1	CAPSCREW, 1/2"NF x 3"
	70904208	2	2	LOCKWASHER, 1/2"
	70064531	2	2	WASHER, plain
10	70065588	1	1	CAPSCREW, 1/2"NF x 3-1/2"
11	70064531	1	1	WASHER, plain
	70904208	1	1	LOCKWASHER, 1/2"
	70911043	1	1	NUT, 1/2"NF

(Continued)

REAR FENDERS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
12	70085042	1	- PIPE, cable conducting (For tractors equipped with cable dozer using rear-mounted control unit)
13	70641474	4	- U-BOLT, supporting, cable conducting pipe
	70911041	8	- NUT, 3/8"NF
	70904206	8	- LOCKWASHER, 3/8"
	70911115	8	- WASHER, plain, SAE std., 3/8"

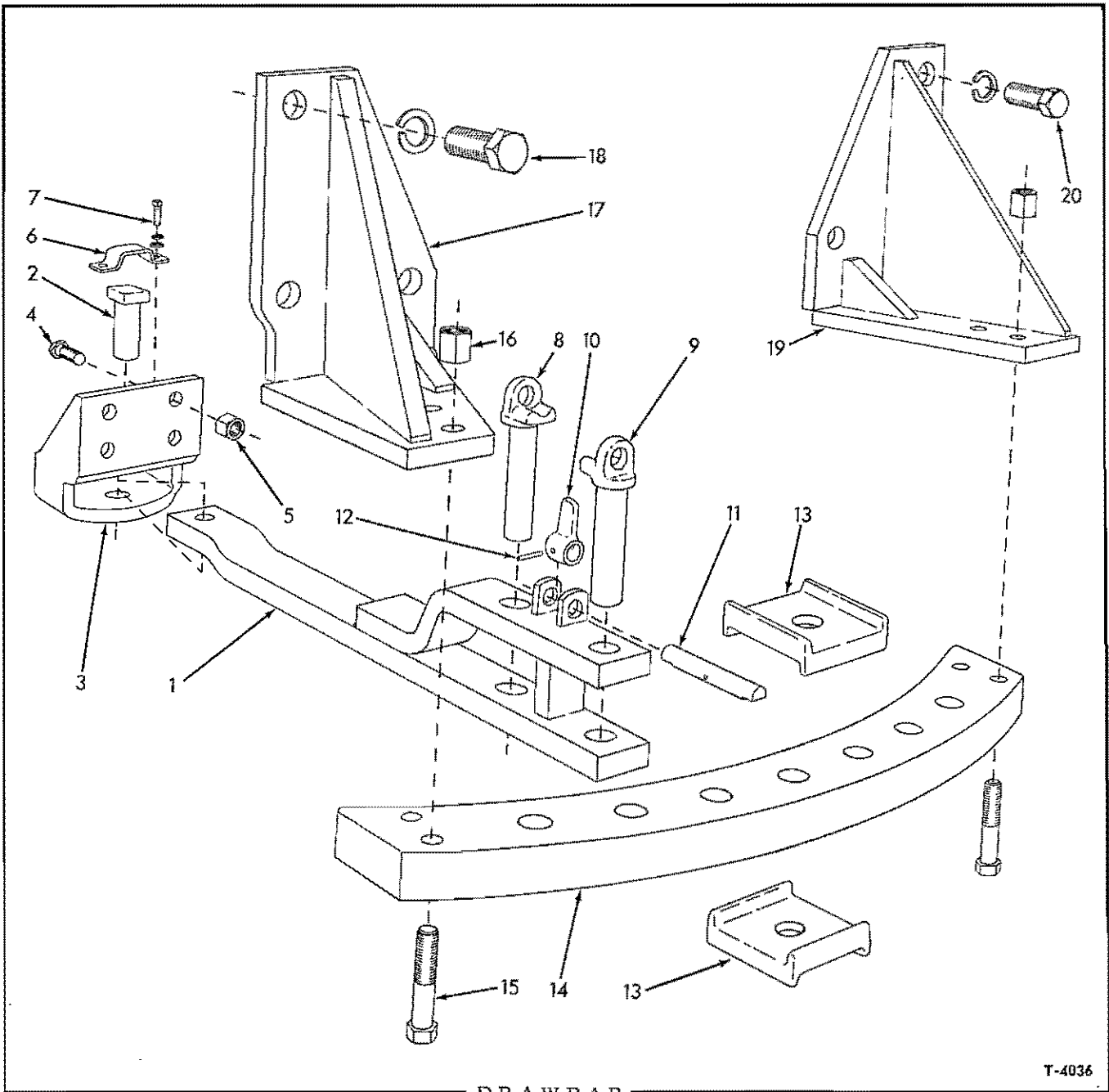


REAR FENDERS

T-15218

USAGE: Models HD16FC, GC

ITEM	PART NO.	QTY.	DESCRIPTION	
1	70087555	1	FENDER, left	
2	70012453	4	CAPSCREW, 3/4"NF x 2"	
3	70061689	4	WASHER, plain	
	70904369	4	LOCKWASHER, 3/4"	
4	70035068	1	CAPSCREW, 1/2"NF x 2-1/4"	} Used prior to tractor #5154
5	70064531	1	WASHER, plain	
	70904208	1	LOCKWASHER, 1/2"	
	70911043	1	NUT, 1/2"NF	
6	70623936	1	FENDER, right	
7	70012453	4	CAPSCREW, 3/4"NF x 2"	
8	70061689	4	WASHER, plain	
	70904369	4	LOCKWASHER, 3/4"	
9	70035068	1	CAPSCREW, 1/2"NF x 2-1/4"	} Used prior to tractor #5154
10	70064531	1	WASHER, plain	
	70904208	1	LOCKWASHER, 1/2"	
	70911043	1	NUT, 1/2"NF	



DRAWBAR

T-4036

PART ITEM NUMBER	QTY.	DESCRIPTION
1 70058994	1	DRAWBAR
2 70080669	1	PIN, hinge
3 70059017	1	BRACKET, hinge pin
4 70035420	4	CAPSCREW, 1"NF x 3-1/4"
5 70600236	4	NUT, high, 1"NF

(Continued)

DRAWBAR (Continued)

ITEM	PART NUMBER	QTY.	DESCRIPTION
6	70050447	1	PLATE, hinge pin retaining
7	70070469	2	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	2	LOCKWASHER, 1/2"
	70910244	2	WASHER, plain, SAE std., 1/2"
8	70059010	1	PIN, drawbar locking
9	70059007	1	PIN, drawbar coupling
10	70051352	1	ARM, locking, drawbar pins
11	70078866	1	SHAFT, drawbar pin locking arm
12	70915504	1	PIN, roll, 5/16" x 1-3/4"
13	70059012	2	SHOE, wear
14	70064908	1	PLATE, supporting
15	70038203	4	CAPSCREW, 1"NF x 4-1/2"
16	70600236	4	NUT, high, 1"NF
17	70064905	1	BRACKET, supporting plate, left
18	70066794	3	CAPSCREW, 1-1/4"NF x 3-1/4"
	70904210	3	LOCKWASHER, 1-1/4"
19	70064906	1	BRACKET, supporting plate, right
20	70066794	3	CAPSCREW, 1-1/4"NF x 3-1/4"
	70904210	3	LOCKWASHER, 1-1/4"

PAINTING AND MARKING

* Tractors without torque converter
 ** Tractors with torque converter

ITEM	PART NO.	QTY. * **	DESCRIPTION
<u>NOTE:</u> Approximately 5 gallons paint required for spraying			
1	70921094	- -	ENAMEL, persian orange, quart can
	70925109	- -	ENAMEL, A-C yellow, quart can
2	70921093	- -	ENAMEL, persian orange, gallon can
	70925110	- -	ENAMEL, A-C yellow, gallon can
3	70922985	- -	ENAMEL, A-C yellow, 5-gallon can
4	70921092	- -	ENAMEL, persian orange, 12 oz. pressurized spray-type can
	70925108	- -	ENAMEL, A-C yellow, 12 oz. pressurized spray-type can

NOTE: All plates and transfers listed below are English language printings unless otherwise indicated

5	70620594	1 -	PLATE, tractor lubrication and service guide (7" x 10") (Used prior to tractor #5154)	Attached to left battery box on HD16A, AC, DC, FC and to shovel frame on HD16GC
	70623887	1 -	PLATE, tractor lubrication and service guide (7" x 10") (Effective with tractor #5154)	
	70620595	- 1	PLATE, tractor lubrication and service guide (7" x 10") (Used prior to tractor #5154 excluding #5104)	
	70623888	- 1	PLATE, tractor lubrication and service guide (7" x 10") (Effective with tractor #5154 including #5104)	
	70620105	1 1	PLATE, tractor lubrication and service guide (7" x 10", multi-language)(Used prior to tractor #5154 excluding #5104)	
	70624263	1 1	PLATE, tractor lubrication and service guide (7" x 10", multi-language)(Effective with tractor #5154) including #5104)	
	70034076	4 4	SCREW, thd-cutting, cross-recessed-hd., #8 x 1/2"	
6	70620596	- 1	PLATE, shovel lubrication and service guide (5" x 7")(Attached to left side of shovel frame on Model HD16GC)	
	70621748	- 1	PLATE, shovel lubrication and service guide (6-1/2" x 7", multi-language)(Attached to left side of shovel frame on Model HD16GC)	
	70034076	- 4	SCREW, thd-cutting, cross-recessed-hd., #8 x 1/2"	
7	70059698	1 -	PLATE, gear shift position (2-5/8" x 3-1/2")(Attached to cowl)	
	70077888	- 1	PLATE, gear shift position (2-5/8" x 3-1/2")(Attached to cowl)	
	70034076	4 4	SCREW, thd-cutting, cross-recessed-hd., #8 x 1/2"	

(Continued)

PAINTING AND MARKING (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
8	70074142	-	1	PLATE, identification, lubrication fitting (1-1/8" x 4")(Attached to cowl)
	70034076	-	2	SCREW, thd-cutting, cross-recessed-hd., #8 x 1/2"
9	70088721	1	1	PLATE ASSEMBLY, instruction, injection pump lubrication (Consists of item 10 and mounting bracket. Attached to injection pump on tractors prior to #4001)
10	70088709	1	1	PLATE, instruction, injection pump lubrication (1-1/2" x 2-3/4") (Used prior to tractor #4001)
	70908386	2	2	SCREW, thread-cutting, #2 x 3/16"
11	70095354	1	1	PLATE, instruction, brake adjustment (6" x 6-1/2", pressure-sensitive type)(Applied to rear of fuel tank prior to tractor #4560, excluding #4253, 4260, 4364, 4369, 4385, 4390, 4396, 4397, 4403, 4421, 4426, 4427, 4432, 4439, 4445, 4450, 4474, 4475, 4480, 4481, 4486, 4487, 4492, 4498, 4501, 4505, 4507, 4508, 4516, 4524, 4525, 4530, 4534, 4540, 4541, 4542, 4545, 4546, 4547, 4548, 4550, 4551, 4552, 4554, 4555, 4557, 4559)
	70099293	1	1	PLATE, instruction, brake adjustment (6" x 6-1/2", pressure sensitive type)(Applied to rear of fuel tank on tractors #4560 thru #5153, including #4253, 4260, 4364, 4369, 4385, 4390, 4396, 4397, 4403, 4421, 4426, 4427, 4432, 4439, 4445, 4450, 4474, 4475, 4480, 4481, 4486, 4487, 4492, 4498, 4501, 4505, 4507, 4508, 4516, 4524, 4525, 4530, 4534, 4540, 4541, 4542, 4545, 4546, 4547, 4548, 4550, 4551, 4552, 4554, 4555, 4557, 4559 but excluding #5104)
12	70629205	1	1	TRANSFER, warning, power steering and brakes (1-3/4" x 3-1/2", pressure-sensitive type)(Applied to dash effective with tractor #5154, including #5104)
13	70631293	1	1	TRANSFER, instruction, engine operation (2-1/4" x 4-1/2", pressure-sensitive type)(Applied to dash)
14	70621357	1	1	TRANSFER, lubrication certification (3-7/8" x 6-3/4", pressure-sensitive type)(Applied to dash)
15	70632226	2	2	TRANSFER, instruction, steering system filter (1-3/4" x 2-1/4", pressure-sensitive type)(Applied to Filter Assembly 631542 only)
16	70621341	-	1	TRANSFER, instruction, engine clutch adjustment (2-3/4" x 4", pressure-sensitive type)(Applied to clutch inspection plate)
17	70621337	1	1	TRANSFER, instruction, 1st stage fuel filter (1-3/4" x 2-1/4", pressure-sensitive type)(Applied to filter)
18	70621345	1	1	TRANSFER, instruction, 2nd stage fuel filter (1-3/4" x 2-1/4", pressure-sensitive type)(Applied to filter)
19	70621343	2	2	TRANSFER, instruction, oil filter (2-5/16" x 3-1/4", pressure-sensitive type)(Applied to engine oil filter)
20	70621399	1	1	TRANSFER, warning, special heavy-duty oil filter (Includes Portuguese translation, 2" x 10", pressure-sensitive type)(Applied to filter)
	70621400	1	1	TRANSFER, warning, special heavy-duty oil filter (French and Spanish translations, 2" x 10", pressure-sensitive type)(Applied to filter)

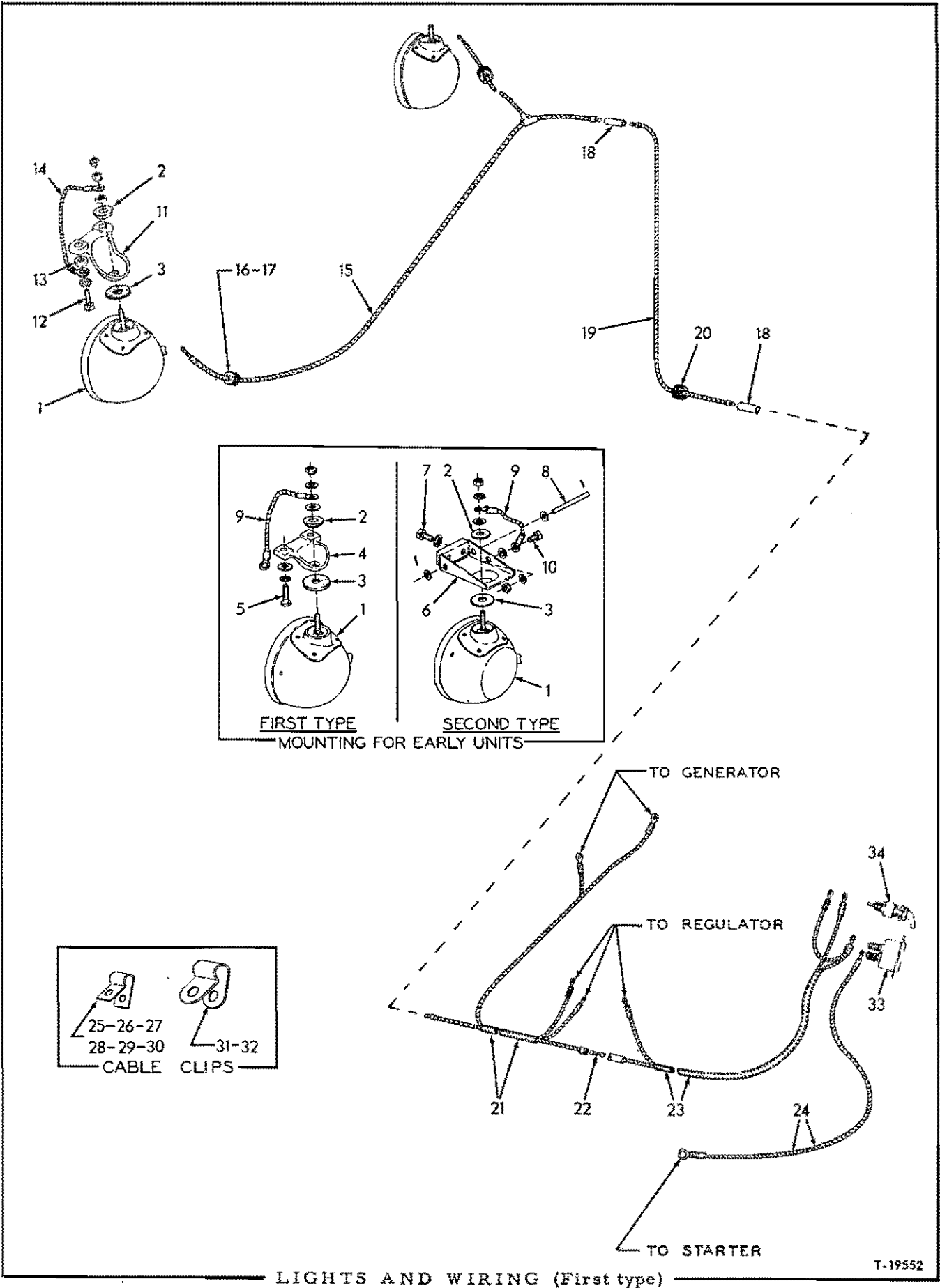
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PAINTING AND MARKING (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
21	70079201	1	1	ΔTRANSFER, instruction, air cleaner (Applied to oil-bath air cleaner only)
22	70050838	1	1	TRANSFER, instruction, air pre-cleaner (Applied to air pre-cleaner)
	70074577	1	1	ΔTRANSFER, instruction, air pre-cleaner (Spanish translation, 1-5/8" x 4")(Applied to air pre-cleaner)
23	70621342	1	1	TRANSFER, instruction, engine primer (1-3/4" x 6", pressure sensitive type)(Applied to air cleaner)
24	70621338	1	1	TRANSFER, instruction, air heater operation (2" x 6", pressure-sensitive type)(Applied to air cleaner)
	70074579	1	1	ΔTRANSFER, instruction, air heater operation (Spanish translation, 2" x 6")(Applied to air cleaner)
25	70040851	3	3	TRANSFER, "ALLIS-CHALMERS" (2-1/2" x 19-1/4")
26	70068832	2	2	TRANSFER, "ALLIS-CHALMERS" (3-3/4" x 30-1/4")(Applied to sides of hood on early units)
27	70634330	3	3	TRANSFER, "ALLIS-CHALMERS" (1-3/4" x 39", pressure-sensitive type)(Applied to sides of hood and to rear of fuel tank)
	70634376	2	2	TRANSFER, "ALLIS-CHALMERS" (1-1/8" x 20", pressure-sensitive type)(Applied to sides of seat)
28	70623501	2	2	TRANSFER, "HD16" (elliptical, pressure-sensitive type)(Applied to sides of battery boxes)
29	70623504	-	3	ΔTRANSFER, "HD16G" (11-5/16" x 12-1/8")(Applied to side of battery box, to oil reservoir and to rear of fuel tank)
30	70623503	-	2	TRANSFER, "TORQUE CONVERTER" design (pressure-sensitive type)(Applied to side of battery boxes; also to oil reservoir on HD16GC)
31	70622015	1	1	TRANSFER KIT (Consists of one each TRANSFER 70050838, 70079201, 70621337, 70621342, 70621345; two each TRANSFERS 70621343, 70623501, 70623503, 70634376; three TRANSFERS 70634330)
32	70067937	-	-	CEMENT, transfer application, 1/2 pint jar (Makes solution by adding 4 parts water. Required to apply transfers indicated by triangle (Δ) above)

ΔIndicates permanent-type transfer. See item 32

MEMO



LIGHTS AND WIRING (First type)

T-19552

LIGHTS AND WIRING

USAGE: Tractors prior to serial No. 4001

* Used prior to approx. tractor serial No. 2717
 ** Effective with approx. tractor serial No. 2717

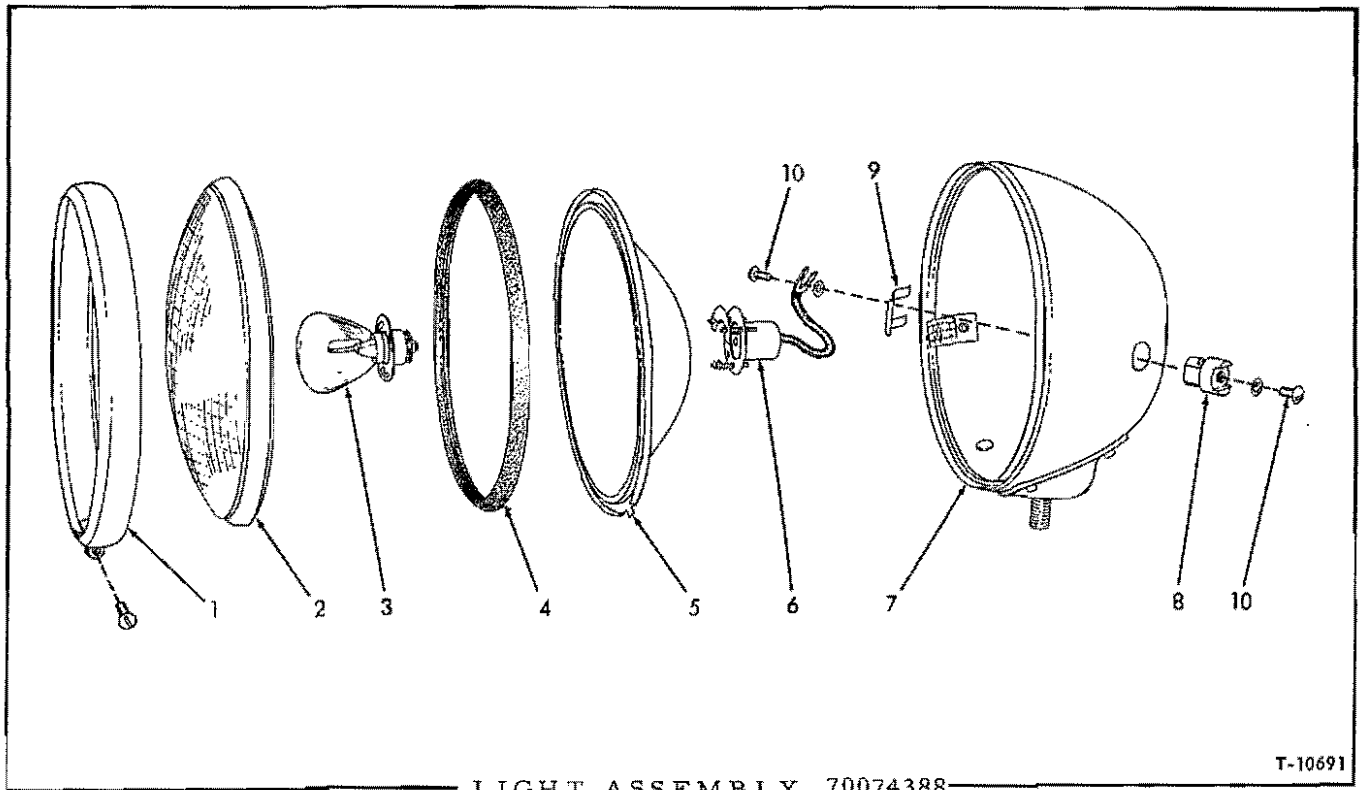
ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
1	70074388	2	2	LIGHT ASSEMBLY, head (See page 539 for parts)(Original equip- ment. Order 1 each LIGHT ASSY. 70638283, WASHER 70075535, WASHER 70900818, LOCKWASHER 70904208 and NUT 70911043)	
	70900817	2	2	WASHER, plain, U.S. std., 3/8"	
	70904206	2	2	LOCKWASHER, 3/8"	
	70911026	2	2	NUT, 3/8"NC	
	70097030	2	2	LIGHT ASSEMBLY, head (See page 543 for parts)(Service replace- ment. Order LIGHT ASSEMBLY 70638283)	
	70900818	2	2	WASHER, plain, U.S. std., 1/2"	
	70904208	2	2	LOCKWASHER, 1/2"	
	70911043	2	2	NUT, 1/2"NF	
	2	70075854	2	2	WASHER, head light mounting, upper
	3	70075853	2	2	WASHER, head light mounting, lower
4	70075429	2	-	BRACKET, head light mounting (Used prior to tractor #1628)	
5	70012992	4	-	CAPSCREW, 3/8"NF x 1-1/4"	
	70904206	4	-	LOCKWASHER, 3/8"	
	70900817	4	-	WASHER, plain, U.S. std., 3/8"	
	<u>NOTE:</u> Items 6 thru 8 and item 10 comprise the SWINGOUT TYPE HEADLIGHT MOUNTING used on tractors #1628 thru #2716.				
6	70 089152	2	-	BRACKET, headlight mounting	
7	70 036034	4	-	CAPSCREW, 3/8"NF x 1"	
	70 906960	4	-	LOCKWASHER, internal teeth, 3/8"	
8	70 089147	2	-	PIN, hinge, mounting bracket	
	70 910335	4	-	WASHER, plain, SAE std., 5/16"	
	70 904001	4	-	PIN, cotter, 3/32" x 1/2"	
9	70 077279	2	-	CABLE, head light ground	
10	70 035979	2	-	CAPSCREW, 3/8"NF x 5/8"	
	70 906960	2	-	LOCKWASHER, internal teeth, 3/8"	
	70 904206	2	-	LOCKWASHER, 3/8"	
	70 911041	2	-	NUT, 3/8"NF	
11	70093195	-	2	BRACKET, head light mounting	
12	70035336	-	4	CAPSCREW, 3/8"NF x 1-3/4"	
	70912301	-	4	LOCKWASHER, external teeth, 3/8"	
13	70044973	-	4	WASHER, plain	
14	70093176	-	2	CABLE, head light ground	
15	70083284	1	-	CABLE, head lights	
	70093196	-	1	CABLE, head lights, upper section	
16	70083683	-	2	GROMMET, head light cable (1/2" hole)	
17	70044810	-	2	GROMMET, head light cable (3/8" hole)	

NOTE: Items 16 and 17 are required only when head lights are option-
ally mounted on top of the radiator guard.

(Continued)

LIGHTS AND WIRING (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		#	**	
18	70048142	1	2	CONNECTOR, head light cable
19	70639067	-	1	CABLE, head lights, lower section
20	70044810	1	1	GROMMET, head light cable (Not used on Model HD16GC)
21	70083493	1	1	HARNESS, wiring, front section
22	70208960	1	1	FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes
23	70083492	1	1	HARNESS, wiring, rear section
24	70083484	1	1	CABLE, ammeter to starter
25	70066260	2	2	CLIP, ammeter cable (1/8" diam., 13/32" bolt-hole)(Not used on Model HD16GC, effective with tractor #2717)
	70035979	1	1	CAPSCREW, 3/8"NF x 5/8"
	70036032	1	1	CAPSCREW, 3/8"NF x 3/4"
	70904206	2	2	LOCKWASHER, 3/8"
	70911041	1	1	NUT, 3/8"NF
	70073809	-	1	CLIP, ammeter cable (3/16" diam., 13/32" bolt-hole)(Used on Model HD16GC only)
26	70223502	2	-	CLIP, ammeter cable (3/16" diam., 17/32" bolt-hole)(Not used on Model HD16FC or HD16GC)
27	70235794	8	10	CLIP, head light cables (1/4" diam., 13/32" bolt-hole)(2 less used on Model HD16GC, effective with tractor #2717)
	70035979	1	1	CAPSCREW, 3/8"NF x 5/8"
	70904206	1	1	LOCKWASHER, 3/8"
28	70040796	2	-	CLIP, front wiring harness (3/8" diam., 13/32" bolt-hole)
	70036032	1	-	CAPSCREW, 3/8"NF x 3/4"
	70904206	1	-	LOCKWASHER, 3/8"
29	70052917	2	-	CLIP, rear wiring harness (3/8" diam., 1/2" bolt-hole)(1 used on Model HD16GC)
	70035718	1	-	CAPSCREW, 1/2"NC x 3/4"
	70904208	1	-	LOCKWASHER, 1/2"
	70043030	1	-	CLIP, rear wiring harness (3/8" diam., 9/16" bolt-hole)(Used on Model HD16GC only)
30	70034632	-	3	CLIP, wiring harness (5/16" diam., 13/32" bolt-hole)(2 additional used on Model HD16GC)
	70036032	-	1	CAPSCREW, 3/8"NF x 3/4"
	70912742	-	1	CAPSCREW, 3/8"NF x 1/2"
	70904206	-	2	LOCKWASHER, 3/8"
31	70048164	-	1	CLIP, wiring harness (5/16" diam., 17/32" bolt-hole)
32	70091046	2	2	CLIP, wiring harness (1/2" diam., 7/16" bolt-hole)(Not used on Model HD16GC)
	70035979	1	1	CAPSCREW, 3/8"NF x 5/8"
	70036032	1	1	CAPSCREW, 3/8"NF x 3/4"
	70904206	2	2	LOCKWASHER, 3/8"
	70911041	1	1	NUT, 3/8"NF
33	-----	1	1	AMMETER (See INSTRUMENTS)
34	-----	1	1	SWITCH, lights (See INSTRUMENTS)



LIGHT ASSEMBLY 70074388

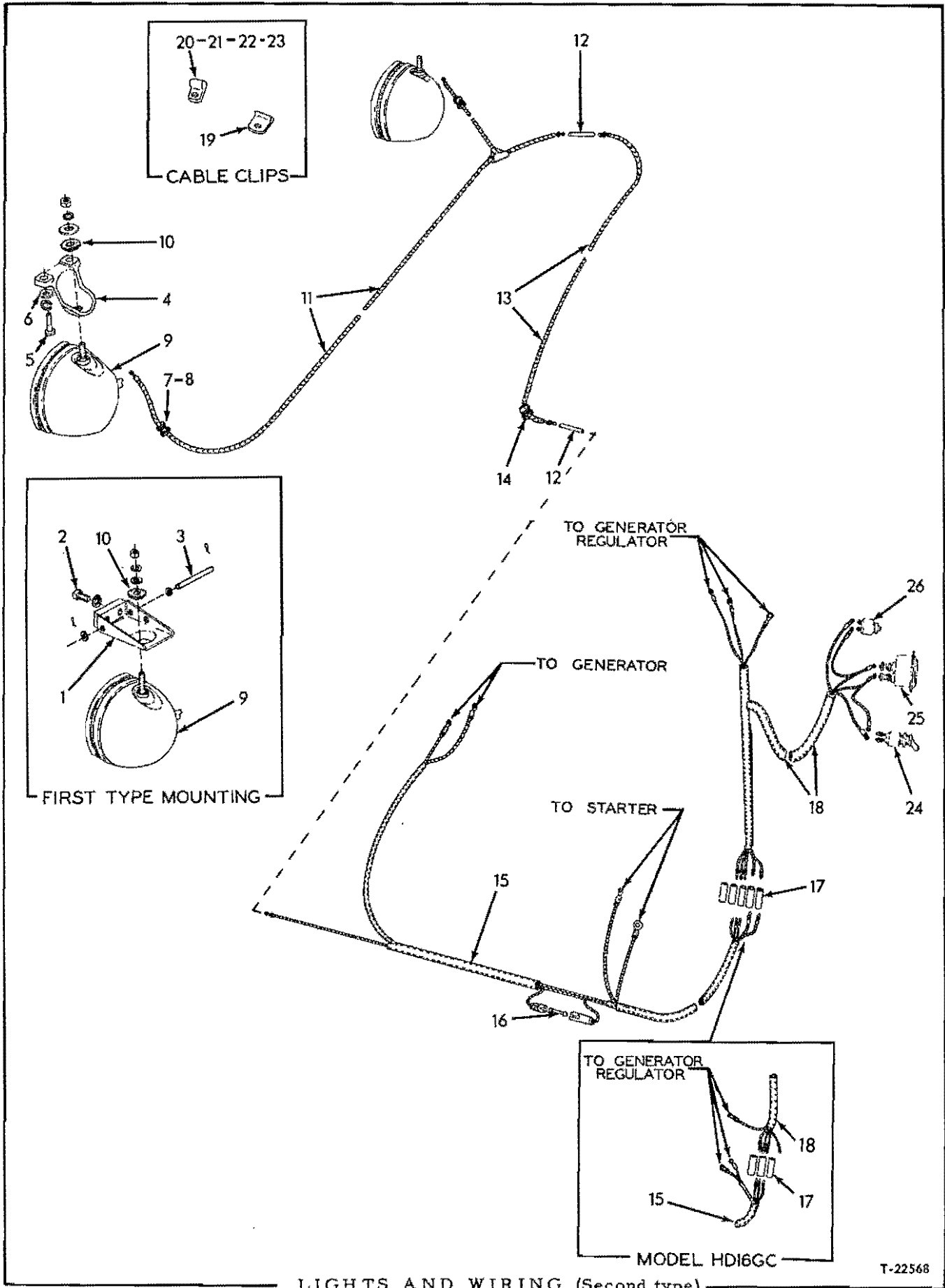
USAGE: See pages 537 and 578

ITEM PART NO. QTY. DESCRIPTION

NOTE: Quantities indicated are for one (1) light only.

1	70058827	1	MOLDING
	70915872	1	SCREW, machine, brass, #8-32NC x 5/8"
2	-----	1	LENS (glass)
3	70074387	1	BULB (Single contact, 32 c. p., 24 volt)
4	70058828	1	GASKET, lens
5	-----	1	REFLECTOR ASSEMBLY (Includes item 4)
6	70058831	1	WIRING ASSEMBLY (Includes socket)
7	-----	1	BODY
8	70055589	1	TERMINAL KIT (Includes items 9 and 10)
9	70048922	1	SPRING, retaining, terminal bushing
10	70034076	2	SCREW, terminal
	70912739	2	LOCKWASHER, internal teeth, #8

NOTE: Items listed above without part number are no longer available. Replace entire unit with sealed-beam Light Assembly 70638283



LIGHTS AND WIRING (Second type)

T-22568

LIGHTS AND WIRING

USAGE: Tractors serial No. 4001 and up

* All Models except HD16GC
 ** Model HD16GC only

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	

NOTE: Items 1 thru 3 comprise the SWING-OUT TYPE HEAD LIGHT MOUNTING used on a limited number of early units equipped with Radiator Guard for hydraulic dozer.

1	70089152	2	-	BRACKET, head light mounting
2	70036034	4	-	CAPSCREW, 3/8"NF x 1"
	70906960	4	-	LOCKWASHER, internal teeth, 3/8"
3	70089147	2	-	PIN, hinge, mounting bracket
	70910335	4	-	WASHER, plain, SAE std., 5/16"
	70904001	4	-	PIN, cotter, 3/32" x 1/2"

NOTE: Items 4 thru 8 comprise the standard head light mounting. These parts were not used on units equipped with items 1 thru 3.

4	70093195	2	2	BRACKET, head light mounting
5	70035336	4	4	CAPSCREW, 3/8"NF x 1-3/4"
	70904206	4	4	LOCKWASHER, 3/8"
6	70044973	4	4	WASHER, plain
7	70083683	2	-	GROMMET, head light cable (1/2" hole)
8	70044810	2	-	GROMMET, head light cable (3/8" hole)

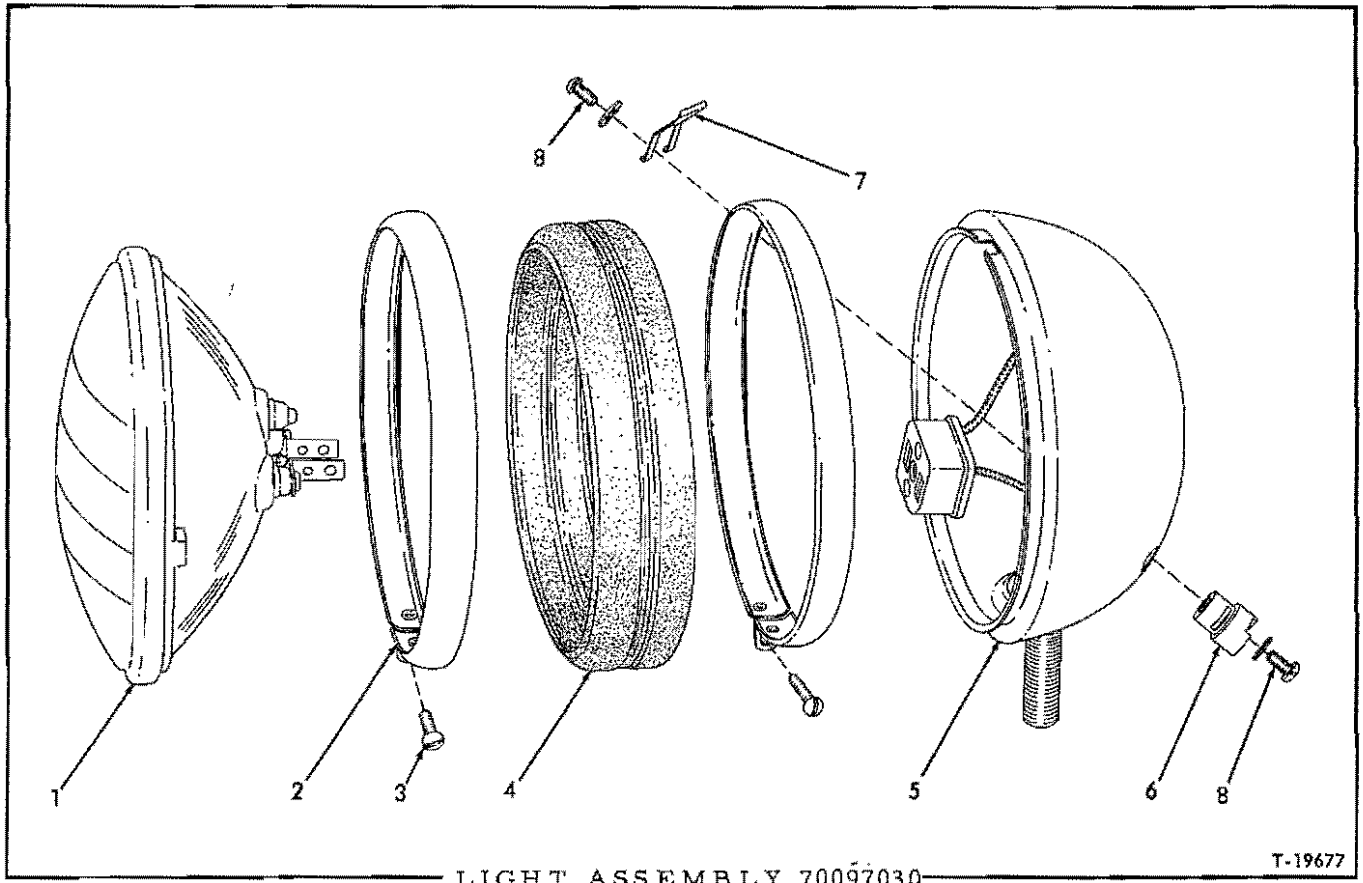
NOTE: Items 7 and 8 are required only when head lights are optionally mounted on top of the radiator guard.

9	{	70097030	2	2	LIGHT ASSEMBLY, head (See page 543 for parts)(Original equipment. Order LIGHT ASSEMBLY 70638283)
		70638283	2	2	LIGHT ASSEMBLY, head (See page 544 for parts)(Service replacement)
		70900818	2	2	WASHER, plain, U.S. std., 1/2"
	70904208	2	2	LOCKWASHER, 1/2"	
	70911043	2	2	NUT, 1/2"NF	
10	70075535	2	2	WASHER, head light mounting	
11	70093196	1	1	CABLE, head light, upper section	
12	70048142	2	2	CONNECTOR, head light cables	
13	70639067	1	1	CABLE, head light, lower section	
14	70044810	1	-	GROMMET, head light cable	
15	{	70097503	1	-	HARNESS, wiring, front section
		70097744	-	1	HARNESS, wiring, front section
16	70208960	1	1	FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes	

(Continued)

LIGHTS AND WIRING (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
17	70048142	5	3	CONNECTOR, wiring harness (1-line)
18	70097493	1	-	HARNESS, wiring, rear section
	70640710	-	1	HARNESS, wiring, rear section
19	70235794	9	8	CLIP, head light cables (1/4" diam., 13/32" bolt-hole)
	70903628	1	-	CAPSCREW, 3/8"NC x 5/8"
	70904206	1	-	LOCKWASHER, 3/8"
20	70052917	1	1	CLIP, front wiring harness (3/8" diam., 1/2" bolt-hole)
	70035221	1	1	CAPSCREW, 1/2"NC x 1"
	70904208	1	1	LOCKWASHER, 1/2"
21	70034632	3	3	CLIP, wiring harness (5/16" diam., 13/32" bolt-hole)
	70036032	2	-	CAPSCREW, 3/8"NF x 3/4"
	70904206	2	-	LOCKWASHER, 3/8"
22	70040796	2	1	CLIP, wiring harness (3/8" diam., 13/32" bolt-hole)
	70036032	1	1	CAPSCREW, 3/8"NF x 3/4"
	70904206	1	1	LOCKWASHER, 3/8"
	70911115	1	1	WASHER, plain, SAE std., 3/8"
23	70048145	1	1	CLIP, front wiring harness (1/2" diam., 17/32" bolt-hole)
	70035221	1	1	CAPSCREW, 1/2"NC x 1"
	70904208	1	1	LOCKWASHER, 1/2"
24	-----	-	-	SWITCH, lights (See INSTRUMENTS)
25	-----	-	-	AMMETER (See INSTRUMENTS)
26	-----	-	-	SWITCH, starter (See INSTRUMENTS)

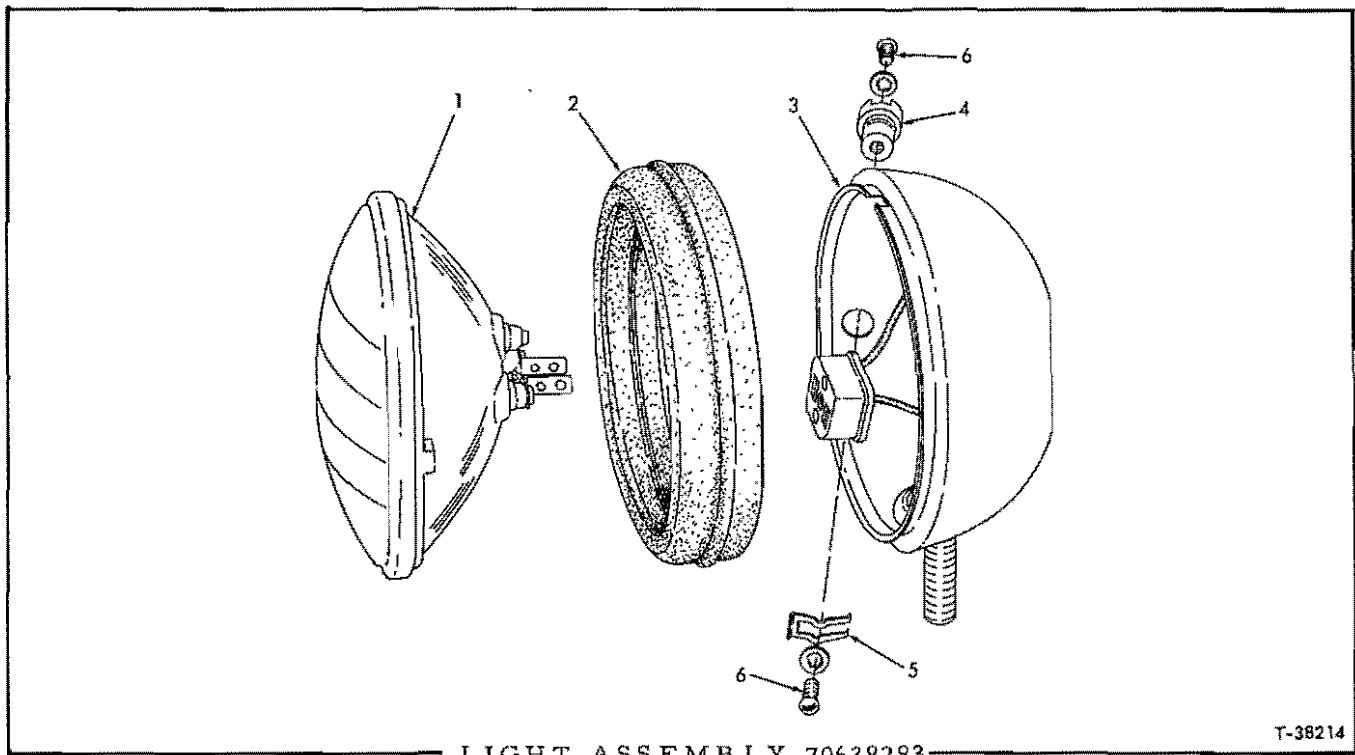


USAGE: See pages 537, 541 and 578

ITEM	PART NO.	QTY.	DESCRIPTION
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NOTE: Quantities indicated are for one (1) light only

1	70182763	1	SEALED BEAM (24 volt)
2	70097046	2	MOLDING
3	70622729	2	SCREW, molding
4	70097048	1	RING, cushion
5	-----	1	BODY ASSEMBLY (Includes wiring. Not serviced separately)
6	70055589	1	TERMINAL KIT (Includes items 7 and 8)
7	70048922	1	SPRING, retaining, terminal bushing
8	70034076	2	SCREW, terminal
	70912739	2	LOCKWASHER, internal teeth, #8



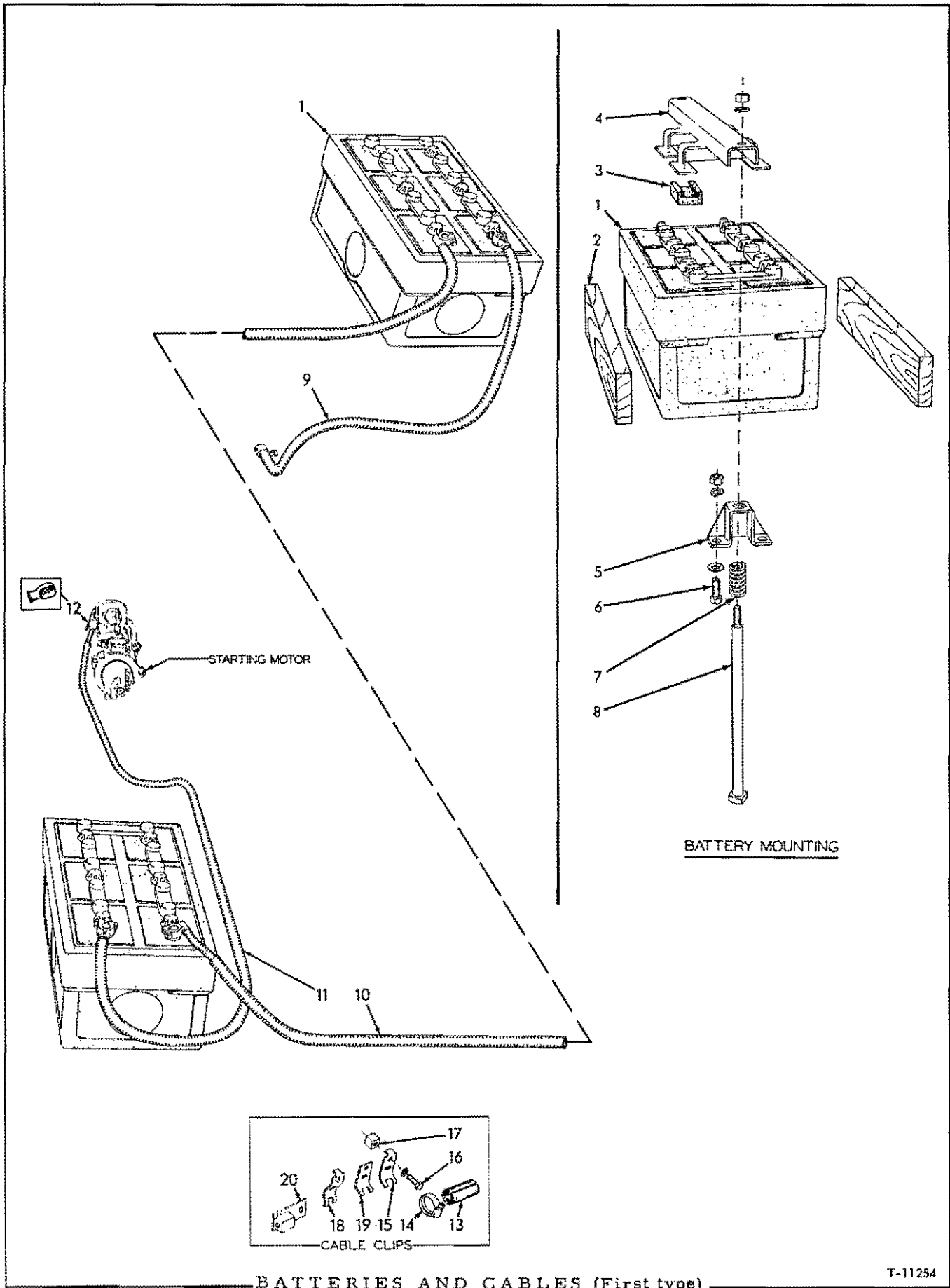
USAGE: See pages 541 and 578

ITEM PART NO. QTY. DESCRIPTION

NOTE: Quantities indicated below are for one (1) light only

1	70182763	1	SEALED BEAM (24 volt)
2	70638282	1	RING, retaining (rubber)
3	-----	1	BODY ASSEMBLY (Includes wiring. Not serviced separately)
4	70055589	1	TERMINAL KIT (Includes items 5 and 6)
5	70048922	1	SPRING, retaining, terminal bushing
6	70034076	2	SCREW, terminal
	70912739	2	LOCKWASHER, internal teeth, #8

MEMO

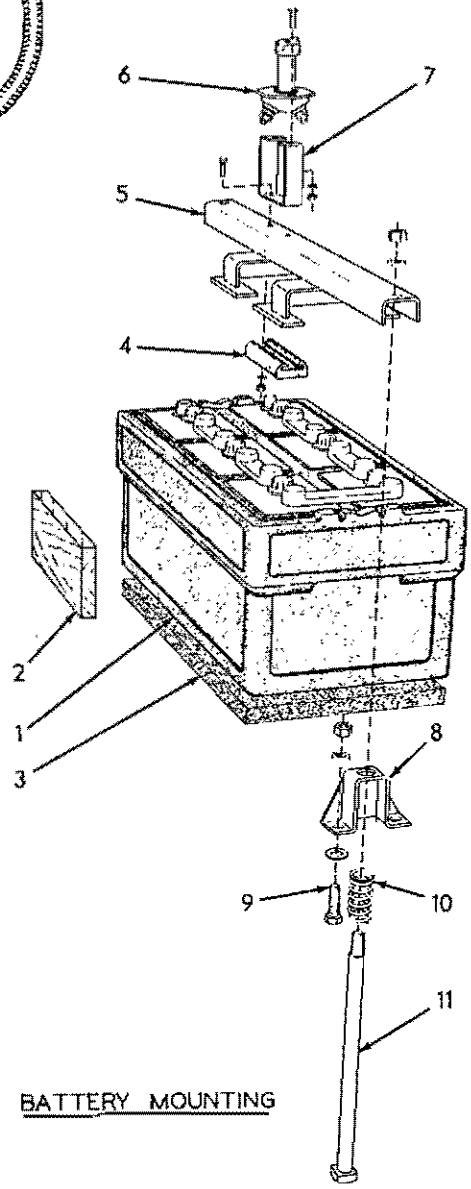
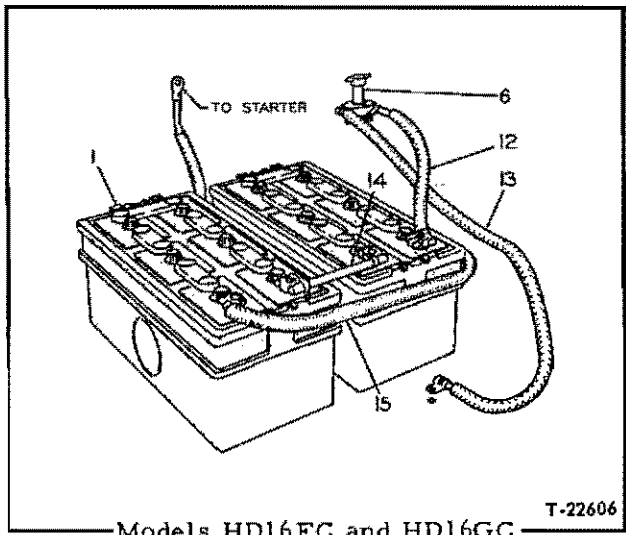
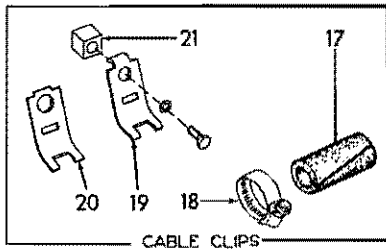
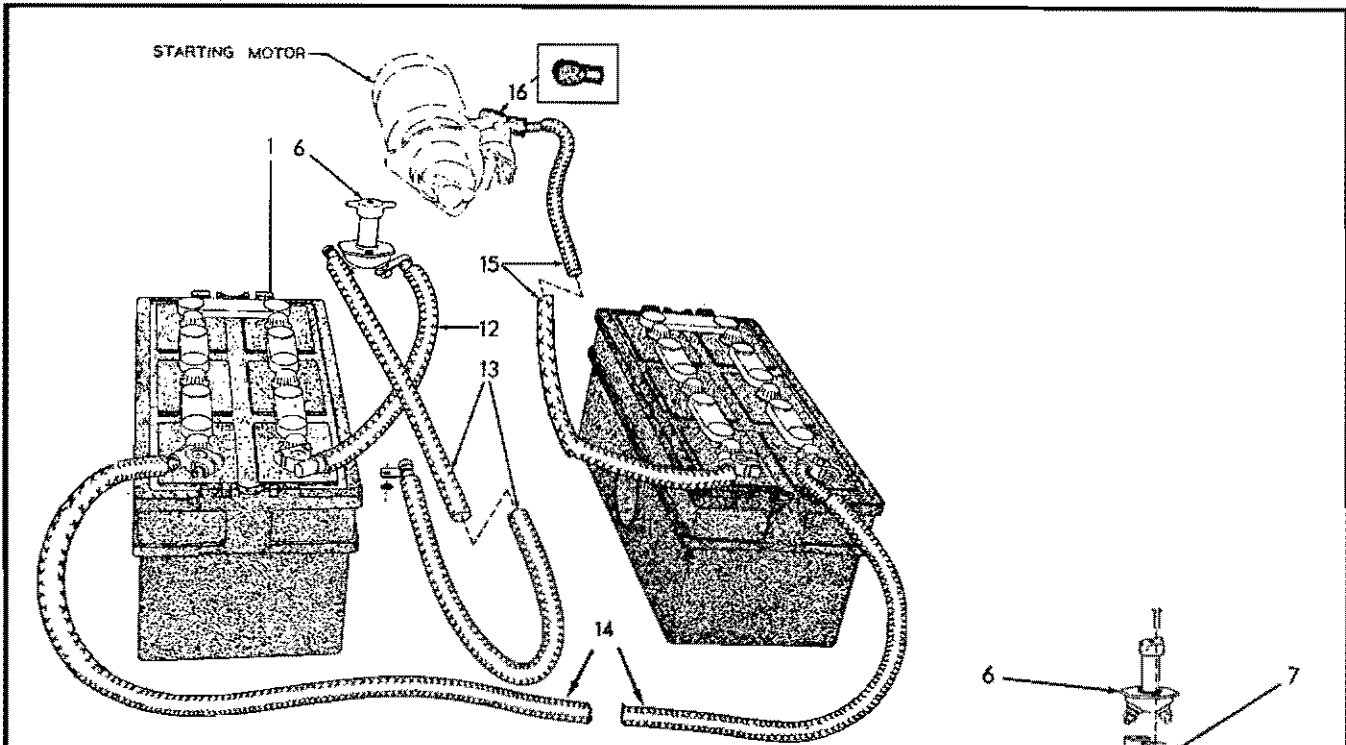


BATTERIES AND CABLES

USAGE: Tractors prior to serial No. 4001

* Models HD16A, AC, D, DC
 ** Models HD16FC, GC

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	-----	2	2	BATTERY, storage, 12 volts, 21 plates (AUTO-LITE #6DA-172. Was formerly #6D-168. Order from local dealer)
2	-----	-	-	BOARD, battery spacing (Procure locally as req'd)
3	70052791	8	8	BLOCK, hold-down (rubber)
4	70052782	2	2	HOLD-DOWN, battery
5	70081867	4	4	BRACKET, hold-down bolt
6	70035236	8	8	CAPSCREW, 1/2"NC x 1-3/4"
	70064531	8	8	WASHER, plain
	70904208	8	8	LOCKWASHER, 1/2"
	70911028	8	8	NUT, 1/2"NC (4 used on Model HD16FC)
7	70081404	4	4	SPRING, hold-down bolt
8	70075322	4	4	BOLT, hold-down (15" long)(Used prior to tractor #2990 on Models HD16A, AC, D, DC; also prior to tractor #2968 on Models HD16FC, GC)
	70904208	4	4	LOCKWASHER, 1/2"
	70911043	4	4	NUT, 1/2"NF
9	70089641	1	1	CABLE, battery to ground (36" long)
10	70069743	1	-	CABLE, battery connecting (58-1/2" long)
11	70089642	1	-	CABLE, battery to starter (112" long)
12	70076572	1	1	BOOT, protecting, starter terminal
13	70076469	14	7	BOOT, cable protecting
14	70921912	14	7	CLAMP, hose (1-1/16" to 2" diam.)
15	70076470	8	4	CLIP, cable supporting
16	70036032	7	2	CAPSCREW, 3/8"NF x 3/4"
17	70068157	-	2	BLOCK, clip spacing (1 used on Model HD16FC)
18	70083042	2	-	CLIP, cable supporting
19	70084895	-	1	CLIP, cable supporting
20	70082916	1	1	BRACKET, cable supporting clip (Attached to engine rear supporting bracket)(Used prior to tractor #2508, excluding #2506)



BATTERIES AND CABLES (Second type)

T-22579

T-22607

BATTERIES AND CABLES

USAGE: Tractors serial No. 4001 and up

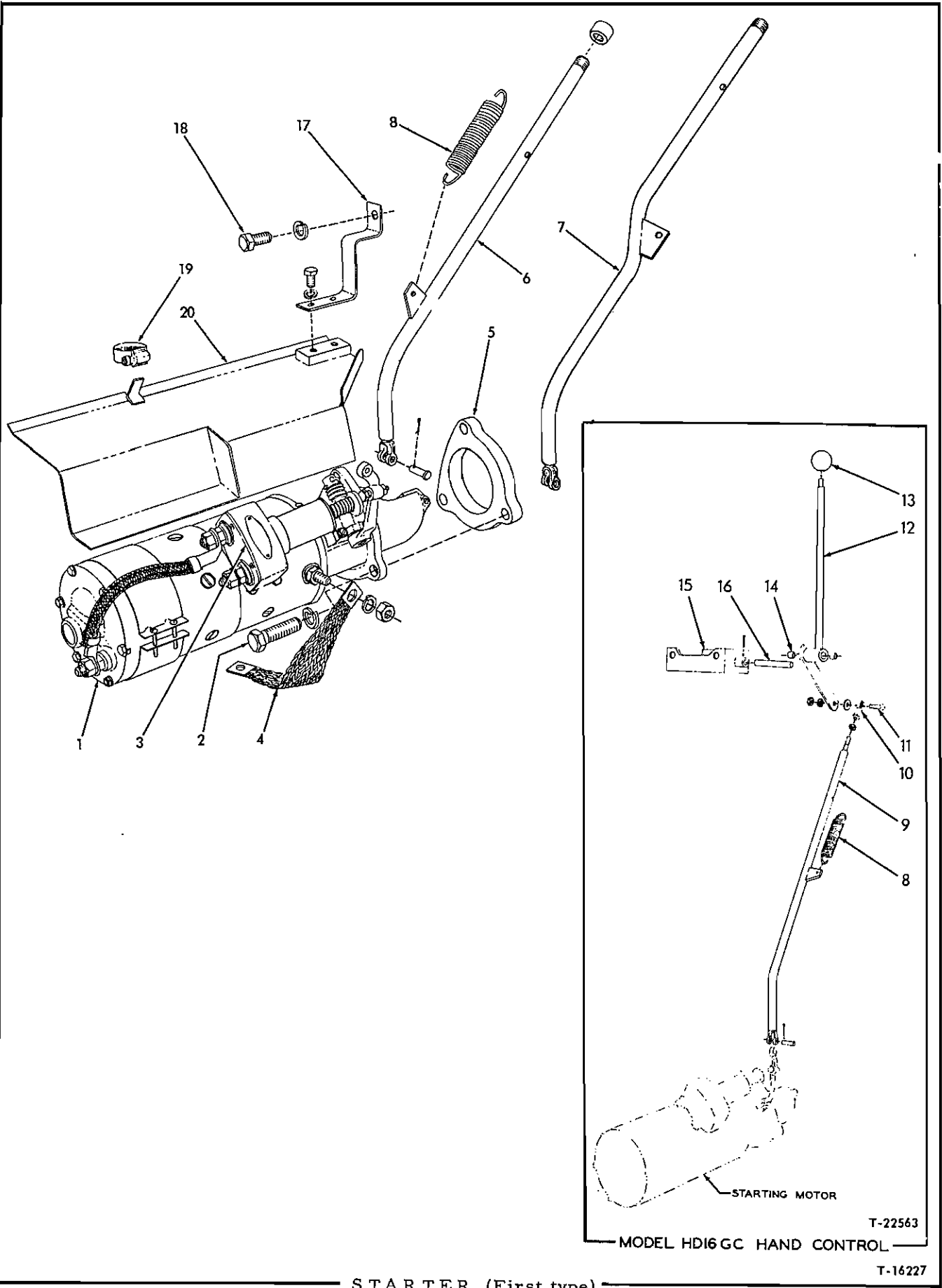
* Models HD16A, AC, D, DC
 ** Models HD16FC, GC

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	-----	2	2	BATTERY, storage, 12 volts, 21 plates (AUTO-LITE #6DA-172. Order from local dealer)
2	-----	-	-	BOARD, battery spacing (Procure locally as req'd)
3	70085680	2	2	PAD, battery (Effective with tractor #4730)
4	70052791	8	8	BLOCK, hold-down (rubber)
5	70052782	2	2	HOLD-DOWN, battery
6	70096908	1	1	SWITCH ASSEMBLY, master (Serviced only as a unit)
	70912789	2	2	CAPSCREW, 1/4"NF x 3/4"
	70904204	2	2	LOCKWASHER, 1/4"
	70911040	2	2	NUT, 1/4"NF
7	70096913	1	1	BRACKET, master switch
	70912789	2	2	CAPSCREW, 1/4"NF x 3/4"
	70904204	2	2	LOCKWASHER, 1/4"
	70911040	2	2	NUT, 1/4"NF
8	70081867	4	4	BRACKET, hold-down bolt
9	70035236	8	8	CAPSCREW, 1/2"NC x 1-3/4"
	70064531	-	8	WASHER, plain (1/4" thick)
	70904208	8	8	LOCKWASHER, 1/2"
	70911028	8	8	NUT, 1/2"NC
10	70081404	4	4	SPRING, hold-down bolt
11	70096111	4	4	BOLT, hold-down (12-3/4" long)(Used prior to tractor #5550)
	70087313	4	4	BOLT, hold-down (13-1/2" long)(Effective with tractor #5550)
	70904208	4	4	LOCKWASHER, 1/2"
	70911043	4	4	NUT, 1/2"NF
12	70096918	1	1	CABLE, battery to master switch (15-1/2" long)
13	70097063	1	1	CABLE, master switch to ground (49" long)
	70906961	1	1	LOCKWASHER, internal teeth, 1/2"
14	70632971	1	-	CABLE, battery connecting (72" long)
	70089629	-	1	CABLE, battery connecting (6-3/4" long)
15	70097666	1	-	CABLE, battery to starter (95" long)(Used prior to tractor #5154, excluding #5104)
	70623880	1	-	CABLE, battery to starter (102" long)(Effective with tractor #5154, including #5104)
	70089654	-	1	CABLE, battery to starter (146" long)
16	70076572	1	1	BOOT, protecting, starter terminal

(Continued)

BATTERIES AND CABLES (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
17	70076469	13	8	BOOT, cable protecting	} 1 less used on Models HD16A,AC,D,DC prior to tractor #5154, excl. 5104
18	70921912	14	9	CLAMP, hose, 1-1/16" to 2" diam.	
19	70633653	3	4	CLIP, cable supporting	
	70036032	3	3	CAPSCREW, 3/8"NF x 3/4"	
	70904206	3	3	LOCKWASHER, 3/8"	
20	70084895	6	2	CLIP, cable supporting	
	70036034	2	-	CAPSCREW, 3/8"NF x 1-1/4"	
	70904206	2	-	LOCKWASHER, 3/8"	
	70911115	2	1	WASHER, plain, SAE std., 3/8"	
21	70068157	-	1	BLOCK, clip spacing	

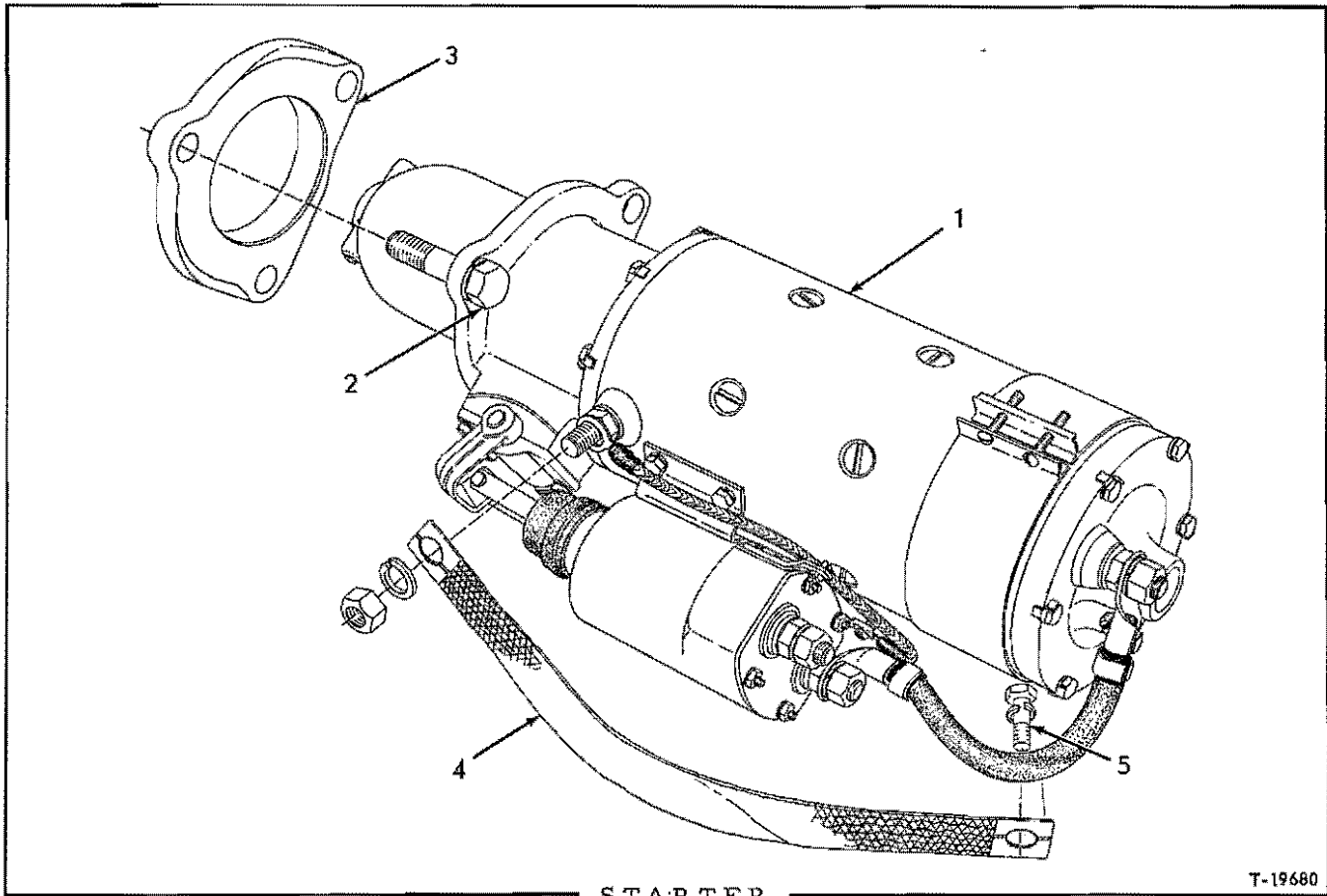


S T A R T E R

USAGE: Tractors prior to serial No. 4001

* All models except HD16GC.
 ** Model HD16GC tractors prior to serial No. 3067.
 *** Model HD16GC tractors effective with serial No. 3067.

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70081600	1	1	1	MOTOR, starting (Delco-Remy #000888. Order parts from local United Motors Service dealer) (Includes item 3)
2	70023755	3	3	3	CAPSCREW, 5/8"NC x 2-1/4"
	70904209	3	3	3	LOCKWASHER, 5/8"
3	70095312	1	1	1	SWITCH, starting motor (Delco-Remy #1996453. Order parts from local United Motors Service dealer)
4	70082178	1	1	1	STRAP, starter to ground
5	74304902	1	1	1	ADAPTER, starting motor
6	70085783	1	-	-	ROD, starter operating
	70901752	1	-	-	CAP, pipe, 3/8"NPT
	70627451	1	-	-	PIN, yoke, 5/16" diam.
	70904001	1	-	-	PIN, cotter, 3/32" x 1/2"
7	70087685	-	1	-	ROD, starter operating
	70901752	-	1	-	CAP, pipe, 3/8"NPT
	70627451	-	1	-	PIN, yoke, 5/16" diam.
	70904001	-	1	-	PIN, cotter, 3/32" x 1/2"
8	70043881	1	1	1	SPRING, retracting, starter rod (Effective with tractor #1447)
9	70094971	-	-	1	ROD, starter operating
	70627451	-	-	1	PIN, yoke, 5/16" diam.
	70904001	-	-	1	PIN, cotter, 3/32" x 1/2"
	70911048	-	-	1	NUT, jam, 3/8"NF
10	70617932	-	-	1	END, ball, operating rod
11	70012992	-	-	1	CAPSCREW, 3/8"NF x 1-1/4"
	70900817	-	-	1	WASHER, plain, U.S. std., 3/8"
	70904206	-	-	1	LOCKWASHER, 3/8"
	70911041	-	-	1	NUT, 3/8"NF
12	70095001	-	-	1	LEVER ASSEMBLY, operating (Includes item 14)
13	70091862	-	-	1	KNOB, operating lever
14	70049988	-	-	2	BUSHING, operating lever
15	70094895	-	-	1	BRACKET, operating lever
16	70094967	-	-	1	SHAFT, operating lever
	70918111	-	-	1	PIN, roll, 1/8" x 1"
17	70087949	1	1	1	BRACKET, cover supporting
18	70035221	1	1	1	CAPSCREW, 1/2"NC x 1"
	70904208	1	1	1	LOCKWASHER, 1/2"
19	70921912	1	1	1	CLAMP, starter cover (1-1/16" to 2" diam.)
20	70090722	1	1	1	COVER, starter protecting
	70913146	2	2	2	CAPSCREW, 3/8"NF x 1/2"
	70904206	2	2	2	LOCKWASHER, 3/8"



STARTER

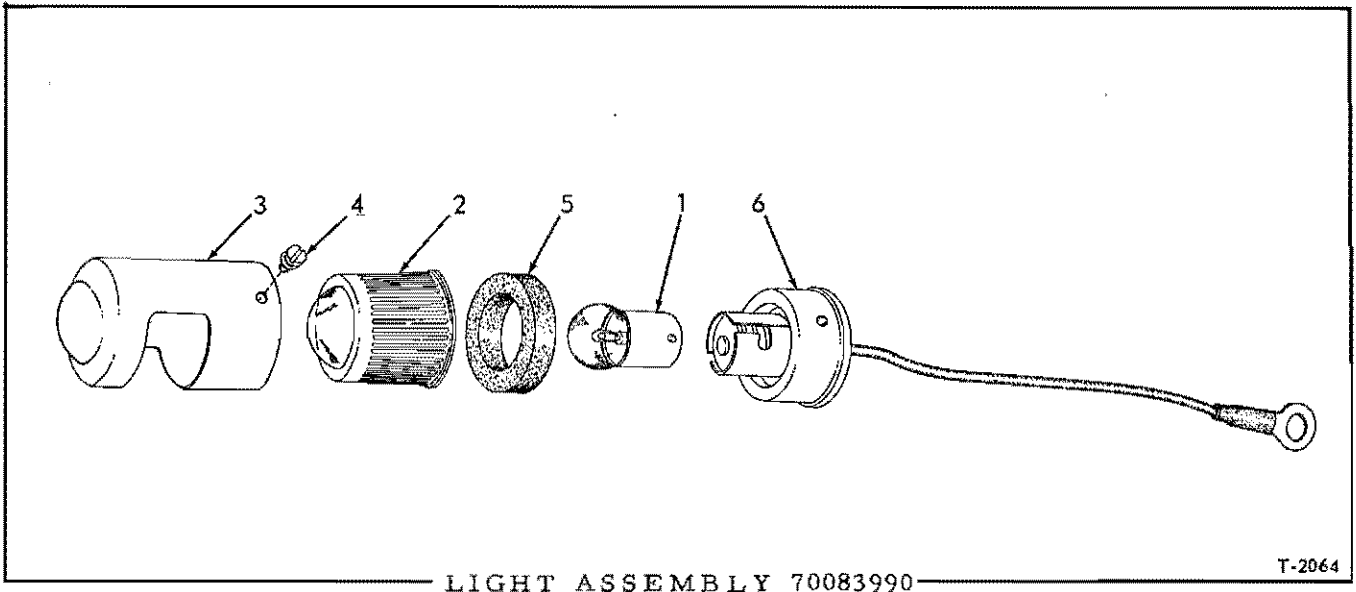
T-19680

USAGE: Tractors serial No. 4001 and up

ITEM PART NO. QTY. DESCRIPTION

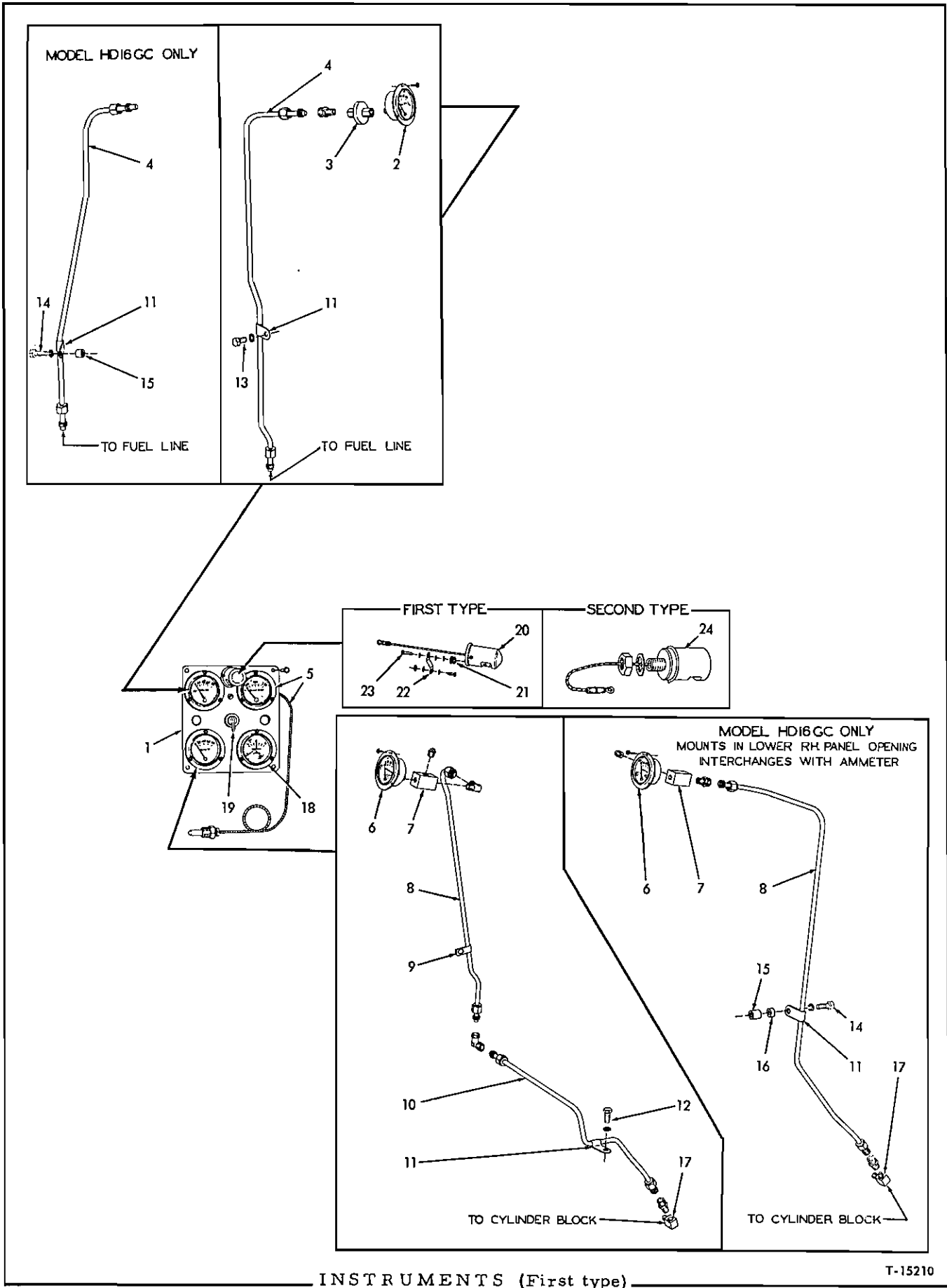
NOTE: See INSTRUMENTS for starter operating switch

1	70096941	1	MOTOR, starting (Delco-Remy #1109960. Order parts from local United Motors Service dealer)
2	70023755	3	CAPSCREW, 5/8"NC x 2-1/4"
	70904209	3	LOCKWASHER, 5/8"
3	74304902	1	ADAPTER, starting motor
4	70073480	1	STRAP, starter to ground
5	70036034	1	CAPSCREW, 3/8"NF x 1"
	70904206	1	LOCKWASHER, 3/8"



USAGE: See page 557

ITEM	PART NO.	QTY.	DESCRIPTION
1	70074452	1	BULB, incandescent, single contact, 6 c.p., 24 volts
2	70040974	1	GLASS
3	70040973	1	COVER, bulb
4	70044211	2	SCREW
5	70040969	1	GASKET, bulb cover
6	-----	-	BASE ASSEMBLY (Not serviced separately)



INSTRUMENTS

USAGE: Tractors prior to serial No. 4001

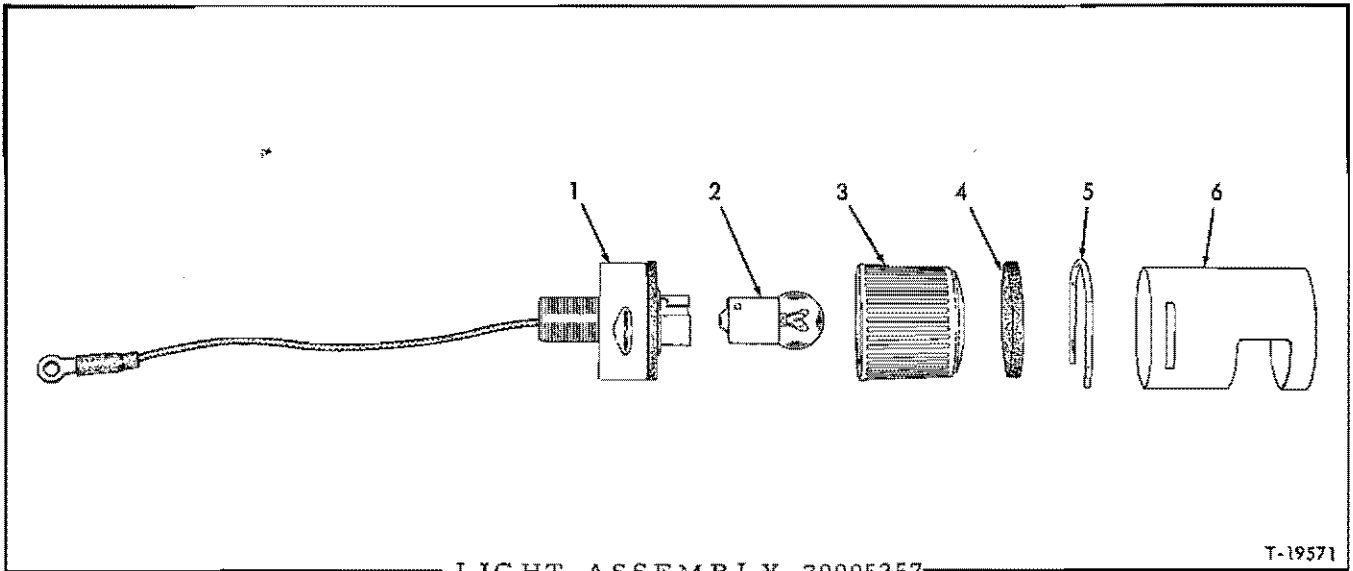
* Models HD16A, AC, D, DC, FC
 ** Model HD16GC

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70083296	1	1	PLATE, instrument mounting
	70917803	4	4	SCREW ASSEMBLY (1/4"NC x 5/8". Includes lockwasher)
2	-----	1	1	GAUGE, fuel pressure (Original equipment. Order GAUGE 70658356)
	70918210	3	3	SCREW ASSEMBLY (#6-32 x 1/2". Includes lockwasher)
	70658356	1	1	GAUGE, fuel pressure (Includes mounting clamp)(Service replacement)
3	70069674	1	1	RESTRICTOR, fuel pressure gauge tube
4	70083416	1	-	TUBE, fuel pressure gauge (Also see page 198 for special tube and tee fitting used with Engine Air Heater)(Not used on Models HD16AC, DC or FC after tractor #2920)
	70092890	1	-	TUBE, fuel pressure gauge (Effective with tractor #2921 on Models HD16AC, DC and FC. Required on units equipped with engine decelerator)
	70087915	-	1	TUBE, fuel pressure gauge
	70918325	2	2	NUT, Sealastic, 3/8" tube
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915368	1	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male
5	-----	1	1	GAUGE, engine temperature (Original equipment. Order GAUGE 70658423)
	70918210	3	3	SCREW ASSEMBLY (#6-32 x 1/2". Includes lockwasher)
	70658423	1	1	GAUGE, engine temperature (Includes mounting clamp)(Service replacement)
6	-----	1	1	GAUGE, engine oil pressure (Original equipment. Order GAUGE 70658293)
	70918210	3	3	SCREW ASSEMBLY (#6-32 x 1/2". Includes lockwasher)
	70658293	1	1	GAUGE, engine oil pressure (Includes mounting clamp)(Service replacement)
7	-----	1	1	TEE, oil pressure gauge (female, 1/4"NPT side, 1/4"NPT and 1/8"NPT ends)(Order 1 each TEE 70094450, PLUG 70901651 and ADAPTER 70910856)
	70901652	1	1	PLUG, pipe, 1/4"NPT (Not used on tractors equipped with Hour Meter)
8	70083415	1	-	TUBE, oil pressure gauge, upper section
	70087902	-	1	TUBE, oil pressure gauge
	70918325	2	2	NUT, Sealastic, 3/8" tube
	70915367	2	2	RING, Sealastic, 3/8" tube (Includes ferrule)
	70915369	1	-	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male
	70915370	1	-	ELBOW, Sealastic, union, 3/8" tube
	70915368	-	2	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male

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INSTRUMENTS (Continued)

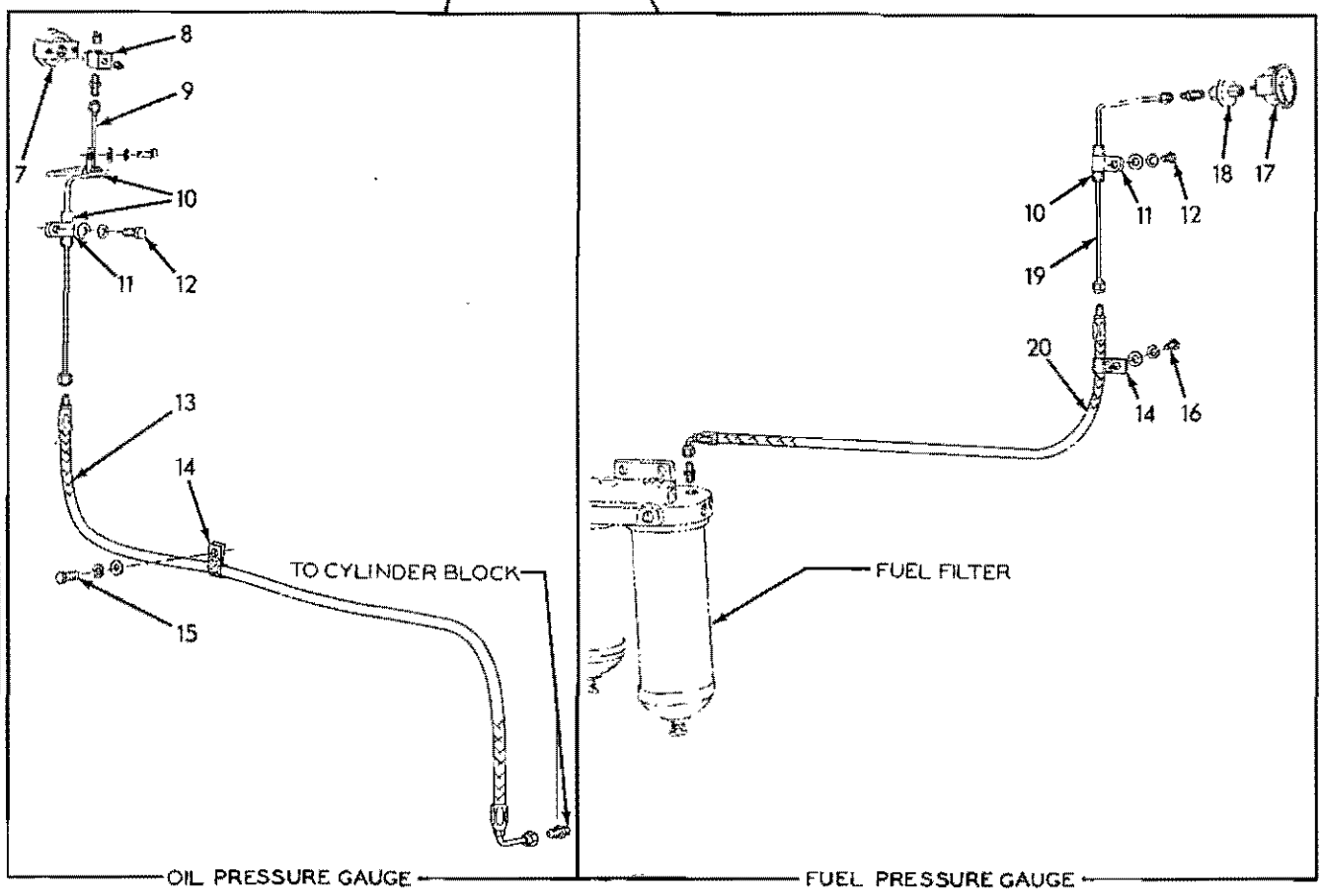
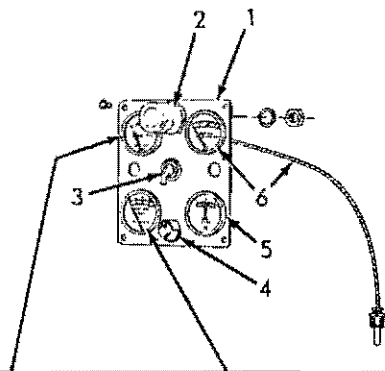
ITEM	PART NO.	QTY. * **	DESCRIPTION
9	70040796	1 -	CLIP, oil pressure gauge upper tube (3/8" diam., 13/32" bolt-hole)
10	70083414	1 -	TUBE, oil pressure gauge, lower section
	70918325	2 -	NUT, Sealastic, 3/8" tube
	70915367	2 -	RING ASSEMBLY, Sealastic, 3/8" tube (Includes ferrule)
	70915368	1 -	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male
11	70041262	2 2	CLIP, pressure gauge tube (3/8" diam., 13/32" bolt-hole)
12	70035439	1 -	CAPSCREW, 3/8"NC x 1"
13	70035979	1 -	CAPSCREW, 3/8"NF x 5/8"
14	70012992	- 2	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2 2	LOCKWASHER, 3/8"
15	70087082	- 2	SPACER, tube clip (1/2" thick)
16	70050257	- 2	SPACER, tube clip (5/16" thick)(Used prior to tractor #2612)
17	70047852	1 1	ELBOW, oil pressure gauge tube (90°, 1/8"NPT male, 1/4"NPT female)
18	-----	1 1	AMMETER (Original equipment. Order AMMETER 70091588)
	70918210	3 3	SCREW ASSEMBLY (#6-32 x 1/2". Includes lockwasher)
	70658348	1 1	AMMETER (Includes mounting clamp)(Service replacement)
19	70661345	1 1	SWITCH ASSEMBLY, light (Includes mounting nuts)
<u>NOTE:</u> Items 20 thru 23 comprise the FIRST TYPE PANEL LIGHT used prior to tractor #3061)			
20	70083990	1 1	LIGHT ASSEMBLY, instrument panel (See page 555 for parts)(Order 1 each LIGHT ASSY, 70095257, LOCKWASHER 70910334 and NUT 70911049)
21	70083987	3 3	GROMMET, panel light mounting (rubber)
22	70083989	1 1	STRAP, panel light ground
	70900558	1 1	SCREW, machine, #10-32NF x 1/2"
	70906957	2 2	LOCKWASHER, internal teeth, #10
	70910251	1 1	NUT, machine screw, #10-32NF
23	70083988	3 3	SCREW, panel light mounting
	70910243	3 3	WASHER, plain, SAE std., #10
	70906957	4 4	LOCKWASHER, internal teeth, #10
24	70095257	1 1	LIGHT ASSEMBLY, instrument panel (See page 559 for parts) (Effective with tractor #3061)
	70910334	1 1	LOCKWASHER, internal teeth, 5/8"
	70911049	1 1	NUT, jam, 5/8"NF



USAGE: See pages 557, 561 and 565

ITEM PART NO. QTY. DESCRIPTION

1	-----	1	BASE ASSEMBLY (Not serviced separately)
2	70074452	1	BULB, incandescent, single contact, 6c. p., 24 volts
3	70095267	1	LENS
4	70095268	1	GASKET
5	70095265	1	SPRING, cover retaining
6	70095269	1	COVER



INSTRUMENTS

USAGE: Tractors serial No. 4001 thru No. 5042

* All Models except HD16GC
** Model HD16GC

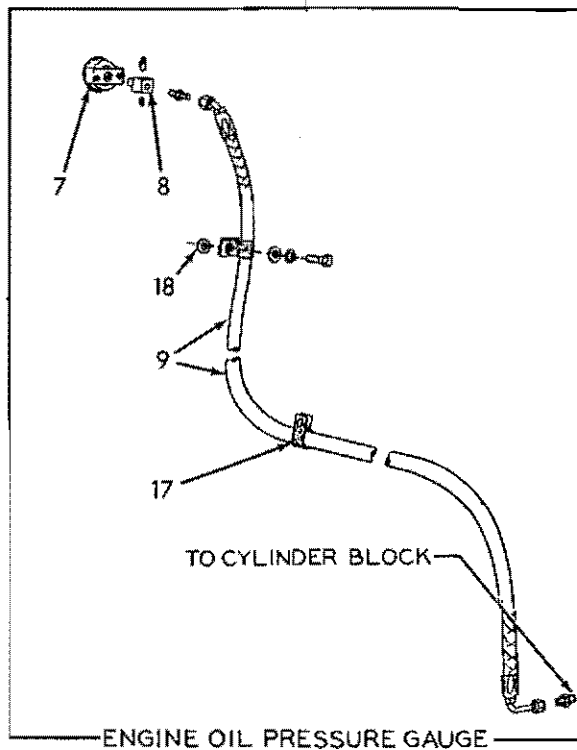
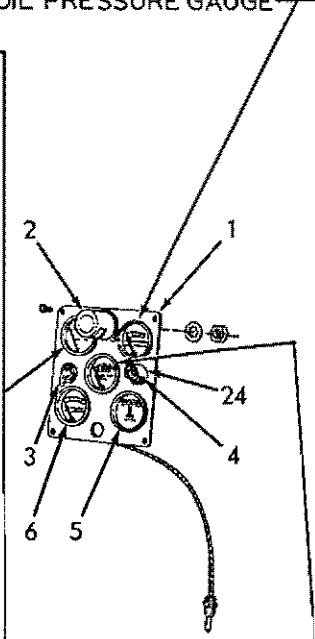
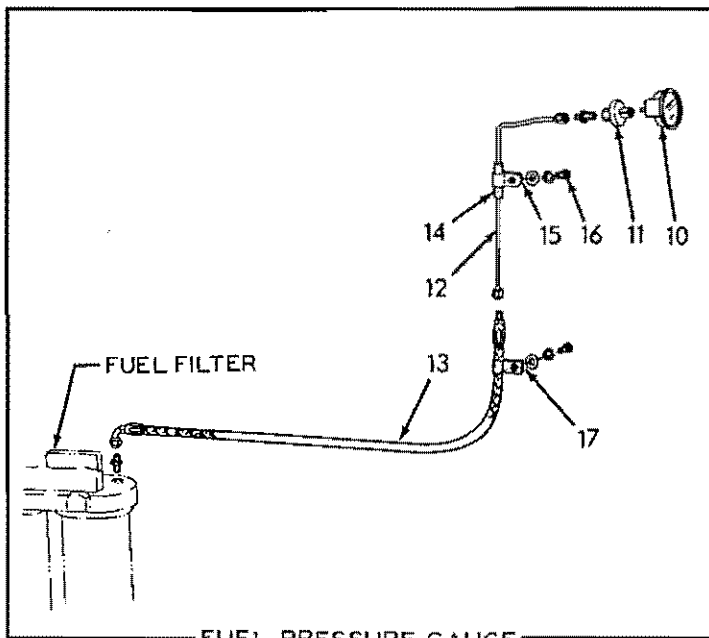
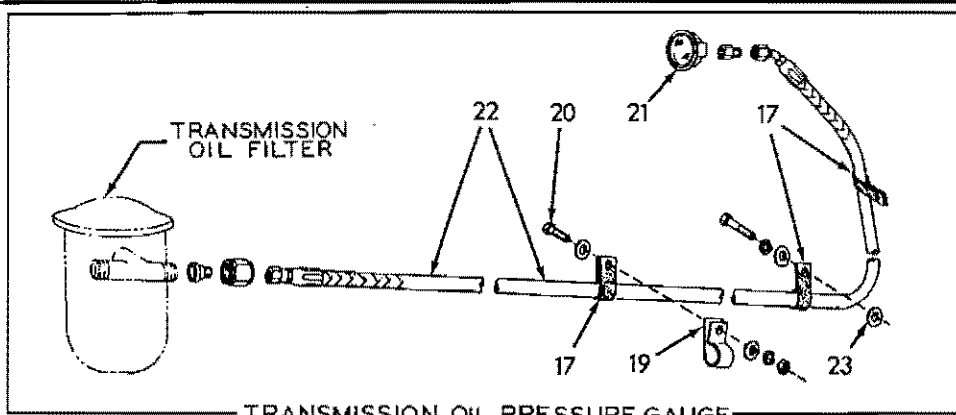
ITEM	PART NO.	QTY. * **	DESCRIPTION
1	70097504	1 1	PLATE, instrument mounting
	70917803	4 4	SCREW ASSEMBLY (1/4"NC x 5/8". Includes lockwasher)
2	70095257	1 1	LIGHT ASSEMBLY, instrument panel (See page 559 for parts)
	70910334	1 1	LOCKWASHER, internal teeth, 5/8"
	70911049	1 1	NUT, jam, 5/8"NF
3	70661345	1 1	SWITCH ASSEMBLY, lights (Includes mounting nuts)
4	70240962	1 1	SWITCH ASSEMBLY, starter (Includes mounting nut)
5	70658348	1 1	AMMETER (Includes mounting clamp)
6	70658423	1 1	GAUGE, engine temperature (Includes mounting clamp)
7	70658293	1 1	GAUGE, engine oil pressure (Includes mounting clamp)
8	70094450	1 1	TEE, oil pressure gauge
	70901651	1 1	PLUG, pipe, 1/8"NPT
	70901652	1 1	PLUG, pipe, 1/4"NPT (Not used on tractors equipped with Hour Meter)
9	70097463	1 -	TUBE ASSEMBLY, oil pressure gauge (Includes nuts)
	70919171	1 -	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
10	70093972	3 -	BOOT, tube protecting (rubber)
11	70047381	3 -	CLIP, tube supporting
12	70036032	3 -	CAPSCREW, 3/8"NF x 3/4"
	70904206	3 -	LOCKWASHER, 3/8"
	70911115	3 -	WASHER, plain, SAE std., 3/8"
13	70097488	1 -	HOSE ASSEMBLY, oil pressure gauge (See HOSE PARTS)
	70919171	1 -	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male (Used prior to tractor #4144)
	70919140	1 -	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male (Effective with tractor #4144)
	70097478	- 1	HOSE ASSEMBLY, oil pressure gauge (See HOSE PARTS)
	70919171	- 1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male (One additional used prior to tractor #4164)
	70919140	- 1	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male (Effective with tractor #4164)
14	70094527	4 5	CLIP, hose supporting
15	70035244	2 2	CAPSCREW, 3/8"NC x 3/4"
16	70036032	1 -	CAPSCREW, 3/8"NF x 3/4"
	70036034	- 3	CAPSCREW, 3/8"NF x 1"
	70904206	3 5	LOCKWASHER, 3/8"
	70911115	3 5	WASHER, plain, SAE std., 3/8"
17	70641636	1 1	GAUGE, fuel pressure (Includes mounting clamp)

(Continued)

INSTRUMENTS (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
18	70069674	1	1	RESTRICTOR, fuel pressure gauge
19	70097328	1	-	TUBE ASSEMBLY, fuel pressure gauge (Includes nuts)
	70919140	1	-	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male
20	70097330	1	-	HOSE ASSEMBLY, fuel pressure gauge (See HOSE PARTS)
	70919171	1	-	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
	70097480	-	1	HOSE ASSEMBLY, fuel pressure gauge (See HOSE PARTS)
	70919140	-	1	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male
	70919171	-	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male

MEMO



INSTRUMENTS

USAGE: Tractors serial No. 5043 and up.

* Models HD16A, AC, D, DC
 ** Model HD16FC
 *** Model HD16GC

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70621955	1	1	1	PLATE, instrument mounting (Used prior to tractor #5154 excluding #5104)
	70097504	1	1	1	PLATE, instrument mounting (Effective with tractor #5154 including #5104)
	70917803	4	4	4	SCREW ASSEMBLY (1/4"NC x 5/8". Includes lockwasher)
2	70095257	1	1	1	LIGHT ASSEMBLY, instrument panel (See page 559 for parts)
	70911049	1	1	1	NUT, jam, 5/8"NF
	70910334	1	1	1	LOCKWASHER, internal teeth, 5/8"
3	70661345	1	1	1	SWITCH ASSEMBLY, lights (Includes mounting nuts)
4	70240962	1	1	1	SWITCH ASSEMBLY, starter (Includes mounting nuts)
5	70658348	1	1	1	AMMETER (Includes mounting clamp)
6	70658423	1	1	1	GAUGE, engine temperature (Includes mounting clamp)
7	70658293	1	1	1	GAUGE, engine oil pressure (Includes mounting clamp)
8	70094450	1	1	1	TEE, oil pressure gauge
	70901651	1	1	1	PLUG, pipe, 1/8"NPT
	70901652	1	1	1	PLUG, pipe, 1/4"NPT (Not used on tractors equipped with Hour Meter)
9	70622078	1	1	1	HOSE ASSEMBLY, engine oil pressure gauge (See HOSE PARTS)
	70919171	1	1	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
	70919140	1	1	1	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male
10	70641636	1	1	1	GAUGE, fuel pressure (Includes mounting clamp)
11	70069674	1	1	1	RESTRICTOR, fuel pressure gauge
12	70097328	1	1	-	TUBE ASSEMBLY, fuel pressure gauge (Includes nuts)
	70919140	1	1	-	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male
13	70097330	1	1	-	HOSE ASSEMBLY, fuel pressure gauge (See HOSE PARTS)
	70919171	1	1	-	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
	70097480	-	-	1	HOSE ASSEMBLY, fuel pressure gauge (See HOSE PARTS)
	70919140	-	-	1	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male
	70919171	-	-	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
14	70093972	1	1	-	BOOT, tube protecting (rubber)
15	70047381	1	1	-	CLIP, tube supporting
16	70036032	1	1	-	CAPSCREW, 3/8"NF x 3/4"
	70904206	1	1	-	LOCKWASHER, 3/8"
	70911115	1	1	-	WASHER, plain, SAE std., 3/8"

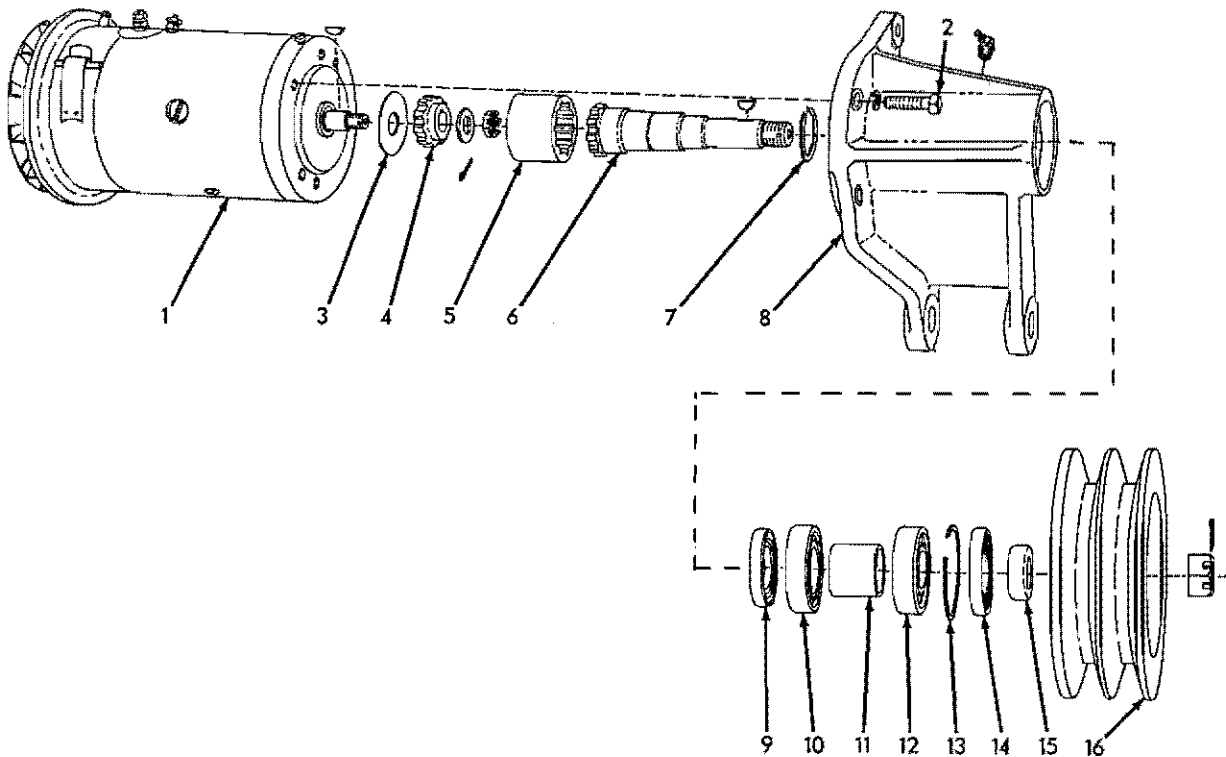
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INSTRUMENTS (Continued)

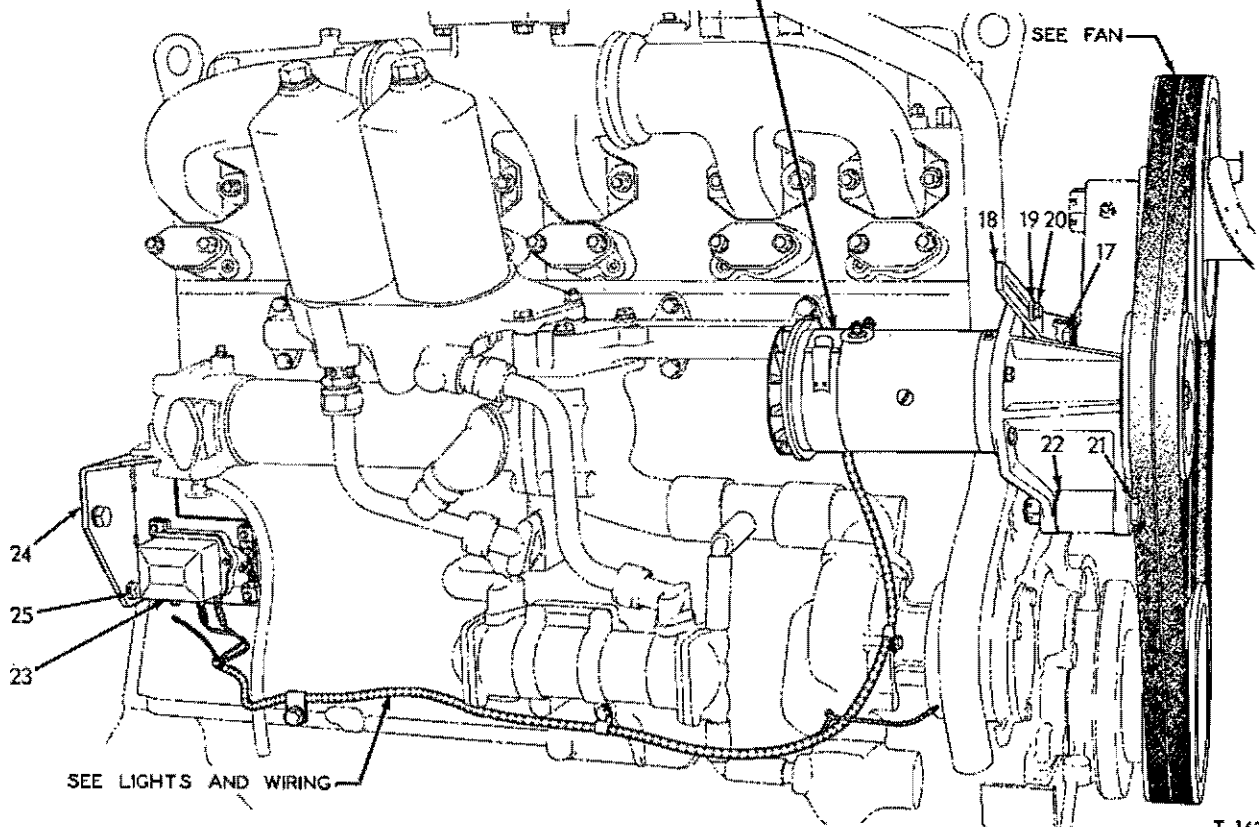
ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
17	70094527	10	8	8	CLIP, hose supporting (5 used on all models effective with tractor #5154 including #5104)
	70035244	2	2	2	CAPSCREW, 3/8"NC x 3/4"
	70036032	1	-	-	CAPSCREW, 3/8"NF x 3/4"
	70036034	3	3	1	CAPSCREW, 3/8"NF x 1"
	70036039	-	-	2	CAPSCREW, 3/8"NF x 1-3/8"
	70035336	2	-	-	CAPSCREW, 3/8"NF x 1-3/4" (Also attaches fuel return line clips)(Used prior to tractor #5154 excluding #5104)
	70904206	5	5	5	LOCKWASHER, 3/8"
	70911115	5	5	5	WASHER, plain, SAE std., 3/8"
18	70050257	-	-	2	SPACER, hose supporting clip
19	70055234	-	1	1	CLIP, supporting, transmission oil pressure gauge hose
20	70036032	-	1	1	CAPSCREW, 3/8"NF x 3/4"
	70911115	-	1	1	WASHER, plain, SAE std., 3/8"
	70904206	-	1	1	LOCKWASHER, 3/8"
	70911041	-	1	1	NUT, 3/8"NF
21	70641809	1	1	1	GAUGE, transmission oil pressure
22	70621926	1	-	-	HOSE ASSEMBLY, transmission oil pressure gauge (See HOSE PARTS)
	70621954	-	1	1	HOSE ASSEMBLY, transmission oil pressure gauge (See HOSE PARTS)
	70919174	1	1	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT female
	70921277	1	1	1	REDUCER, flare type, 1/2" tube to 1/4" tube
	70919068	1	1	1	NUT, flare type, 1/2" tube
23	70065461	2	-	-	BLOCK, spacing, transmission pressure gauge hose supporting clip
24	70634677	1	1	1	GUARD, starter switch (Effective with tractor #5745)
	70911100	1	1	1	WASHER, plain, SAE std., 3/8"

Used prior to tractor #5154 except #5104

MEMO



T-16271



GENERATOR (First type)

T-16270

GENERATOR

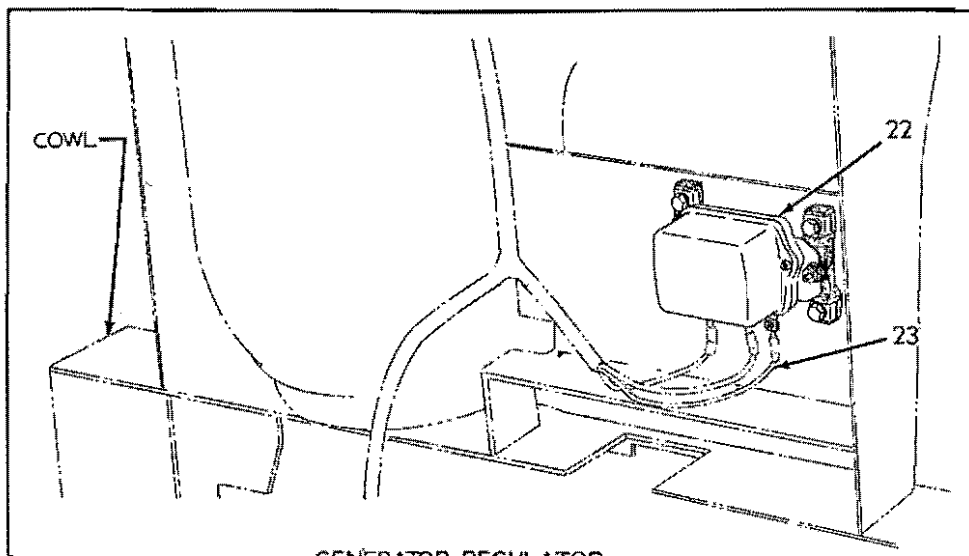
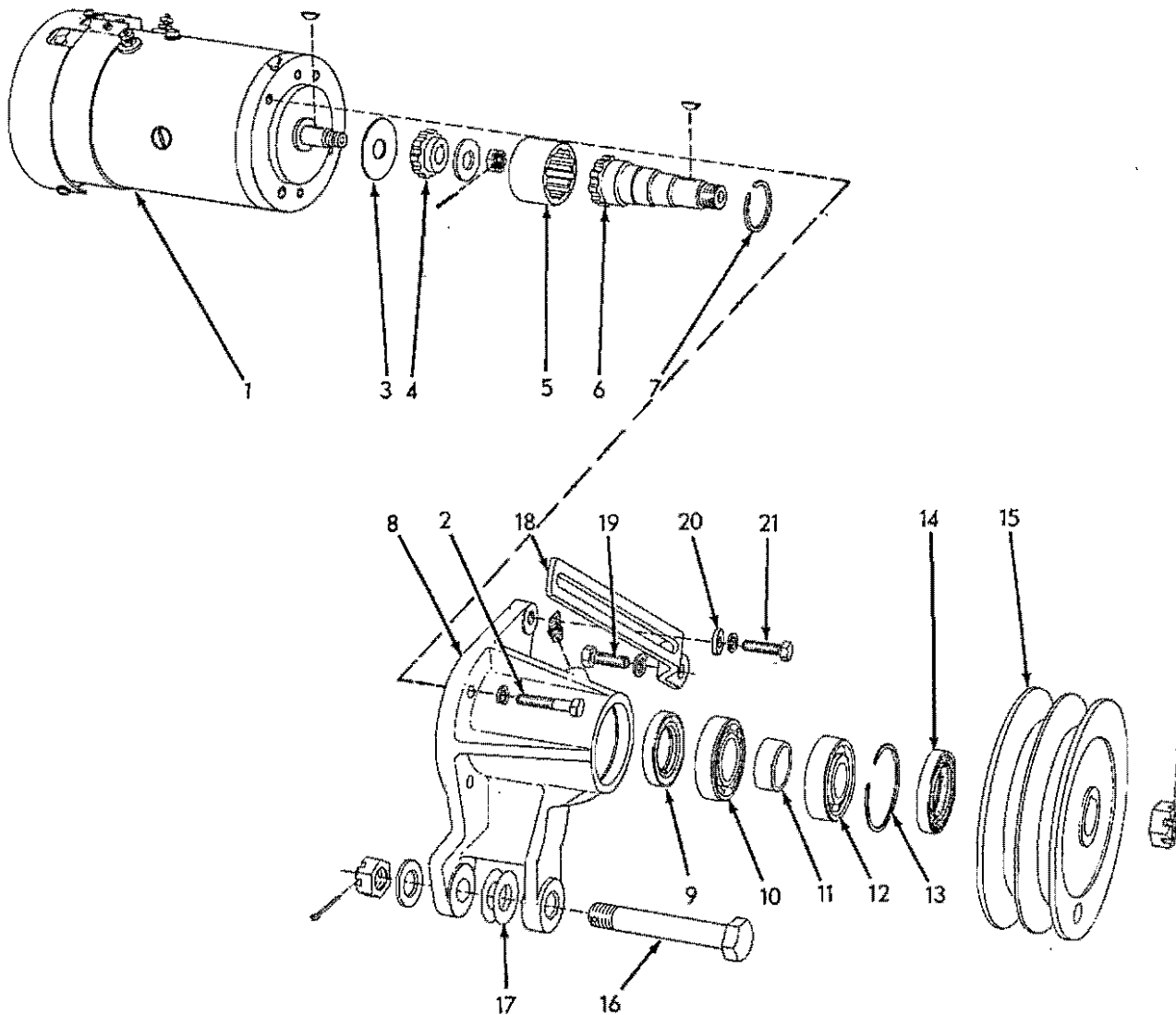
USAGE: Tractors prior to serial No. 4001

ITEM PART NO. QTY. DESCRIPTION

NOTE: See FAN for driving belts

1	70083447	1	GENERATOR (Includes KEY 905121)(DELCO-REMY #1105982. Order parts from local United Motors Service dealer)
	70905121	1	KEY, #5 woodruff, 1/8" x 5/8"
2	70013058	4	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	4	LOCKWASHER, 3/8"
3	70067924	1	WASHER, generator shaft
4	70067923	1	PINION, generator shaft
	70910244	1	WASHER, plain, SAE std., 1/2"
	70913471	1	NUT, jam, slotted, 1/2"NF
	70900801	1	PIN, cotter, 3/32" x 3/4"
5	70067892	1	SLEEVE, coupling
6	70066369	1	SHAFT, generator drive
	70912331	1	NUT, slotted, 3/4"NF
	70900807	1	PIN, cotter, 1/8" x 1-1/4"
	70905121	1	KEY, #5 woodruff, 1/8" x 5/8"
7	70052225	1	RING, snap, generator drive shaft
8	70083269	1	HOUSING, generator drive
	70915274	1	FITTING, lubricating, 45°, 1/8"NPT
9	70067914	1	SEAL, grease, rear
10	74253863	1	BEARING, ball, rear
11	70067918	1	SLEEVE, bearing spacing
12	70067916	1	BEARING, ball, front
13	70050291	1	RING, snap, bearing retaining
14	70067913	1	SEAL, grease, front
15	70067919	1	SPACER, pulley
16	70067932	1	PULLEY
17	70041250	1	CAPSCREW, generator strap (7/16"NC x 1-1/4")
	70904207	1	LOCKWASHER, 7/16"
18	70083399	1	STRAP, generator adjustment
19	70044973	1	WASHER, plain, generator strap
20	70013058	1	CAPSCREW, generator strap (3/8"NC x 1-1/4")
	70904206	1	LOCKWASHER, 3/8"
21	70076522	1	CAPSCREW, generator drive housing
	70912331	1	NUT, slotted, 3/4"NF
	70900808	1	PIN, cotter, 1/8" x 1-1/2"
22	70083710	4	SHIM, housing mounting (Use as req'd)

(Continued)



GENERATOR REGULATOR

GENERATOR (Second type)

T-19679

GENERATOR (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
23	70081154	1	REGULATOR, voltage and current (DELCO-REMY #1119177. Was formerly #1118793. Order parts from local United Motors Service dealer)
	70912178	4	CAPSCREW, 1/4"NF x 1-1/2"
	70904204	4	LOCKWASHER, 1/4"
	70911040	4	NUT, 1/4"NF
24	70083924	1	BRACKET, generator regulator mounting (Also supports Heat Exchanger on Models HD16AC and DC)(Used prior to tractor #1508)
	74373747	1	BRACKET, generator regulator mounting (Also supports Heat Exchanger on Models HD16AC and DC)(Effective with tractor #1508)
25	70035392	3	CAPSCREW, 5/8"NC x 1-1/4"
	70904209	3	LOCKWASHER, 5/8"
	70900819	3	WASHER, plain, U.S. std., 5/8"

GENERATOR

USAGE: Tractors serial No. 4001 and up

NOTE: See FAN for driving belts

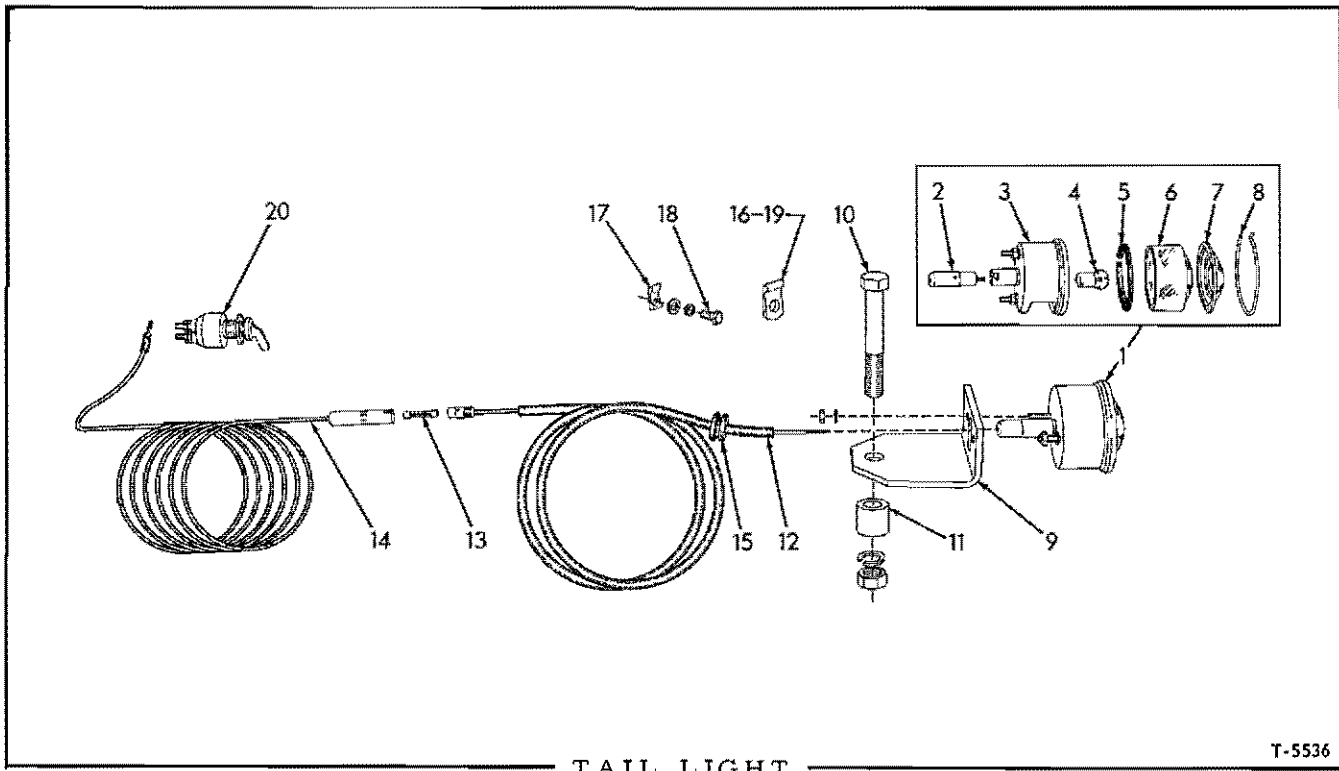
1	70094625	1	GENERATOR (Includes KEY 905121)(DELCO-REMY #1105997. Order parts from local United Motors Service dealer)
	70905121	1	KEY, #5 woodruff, 1/8" x 5/8"
2	70013058	4	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	4	LOCKWASHER, 3/8"
3	70067924	1	WASHER, generator shaft
4	70067923	1	PINION, generator shaft
	70910244	1	WASHER, plain, SAE std., 1/2"
	70913471	1	NUT, jam, slotted, 1/2"NF
	70900801	1	PIN, cotter, 3/32" x 3/4"
5	70096056	1	SLEEVE, coupling
6	70096092	1	SHAFT, generator drive
	70913472	1	NUT, jam, slotted, 3/4"NF
	70900807	1	PIN, cotter, 1/8" x 1-1/4"
	70905121	1	KEY, #5 woodruff, 1/8" x 5/8"
7	70052225	1	RING, snap, generator drive shaft
8	70096071	1	HOUSING, generator drive
	70915274	1	FITTING, lubricating, 45°, 1/8"NPT
9	70067914	1	SEAL, grease, rear
10	74253863	1	BEARING, ball, rear
11	70096046	1	SLEEVE, bearing spacing
12	70067916	1	BEARING, ball, front
13	70050291	1	RING, snap, bearing retaining

(Continued)

GENERATOR (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
14	70067913	1	SEAL, grease, front
15	70096093	1	PULLEY
16	70076522	1	CAPSCREW, generator drive housing
	70910255	1	WASHER, plain, SAE std., 3/4"
	70912331	1	NUT, slotted, 3/4"NF
	70900808	1	PIN, cotter, 1/8" x 1-1/2"
17	70083710	4	SHIM, housing mounting (Use as req'd)
18	70083399	1	STRAP, generator adjustment
19	70041250	1	CAPSCREW, generator strap (7/16" NC x 1-1/4")
	70904207	1	LOCKWASHER, 7/16"
20	70044973	1	WASHER, plain, generator strap
21	70013058	1	CAPSCREW, generator strap (3/8"NC x 1-1/4")
	70904206	1	LOCKWASHER, 3/8"
22	70094498	1	REGULATOR, voltage and current (DELCO-REMY #1119223. Order parts from local United Motors Service Dealer)
	70041981	4	CAPSCREW, 5/16"NF x 1-1/2" } All models
	70904205	4	LOCKWASHER, 5/16" } except HD16GC
	70912177	4	CAPSCREW, 1/4"NF x 1-1/4" } Model HD16GC
	70904204	4	LOCKWASHER, 1/4" }
23	-----	-	HARNESS, wiring (See LIGHTS AND WIRING)

MEMO



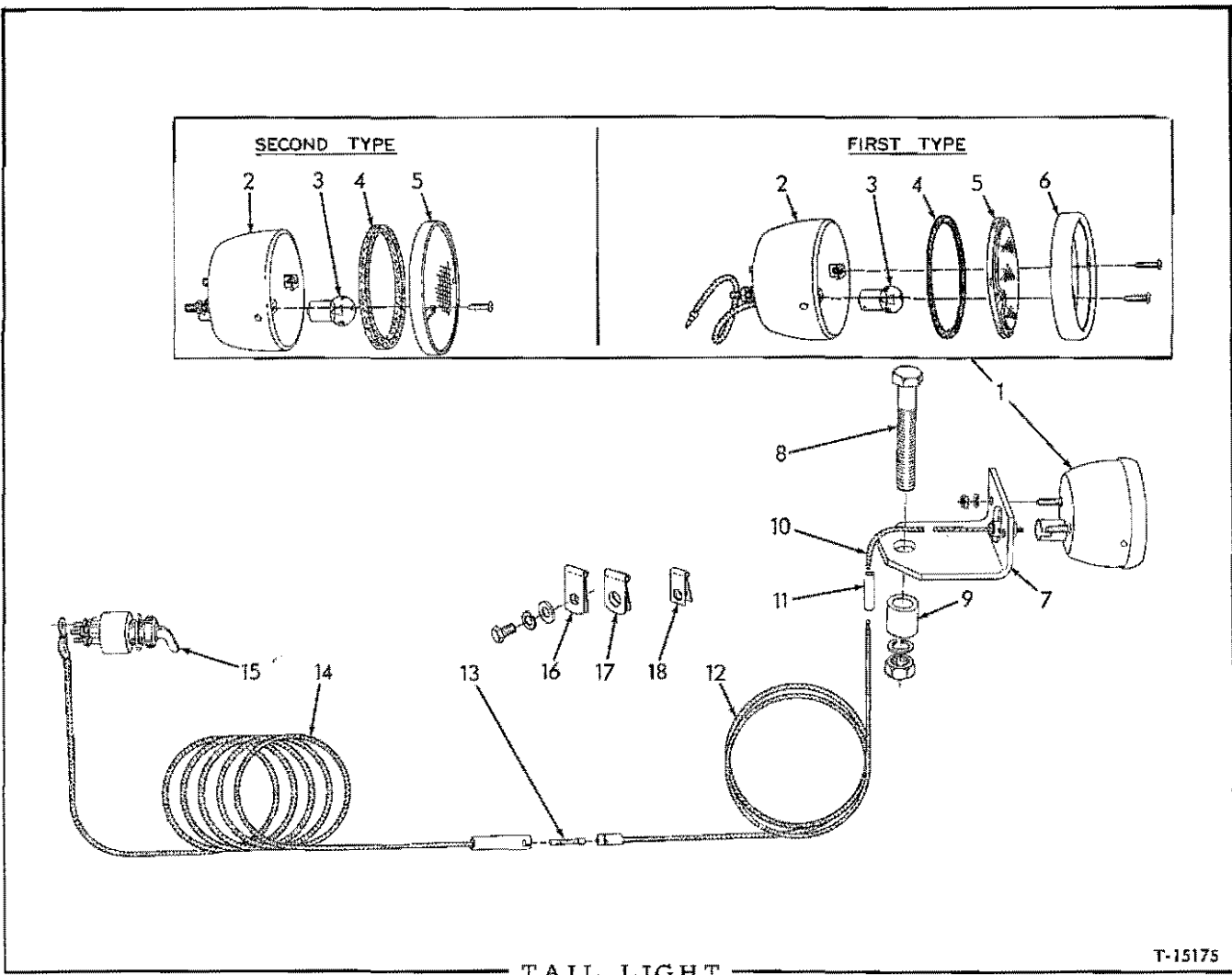
USAGE: Special Equipment prior to July 1956. Applicable to all tractors except those equipped with Rear Flood Light

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	LIGHT ASSEMBLY, tail (Consists of items 2 thru 8) (Order LIGHT ASSEMBLY 70630147 and CABLE ASSEMBLY 70630148)
	70904204	2	LOCKWASHER, 1/4"
	70911040	2	NUT, 1/4"NF
2	70047307	1	PLUG, cable connecting
3	-----	1	BODY (Not serviced separately)
4	70074452	1	BULB, incandescent, single contact, 6 c.p., 24 volt
5	70043713	1	GASKET, glass cup
6	70043716	1	CUP (glass)
7	70034014	1	LENS (red)
8	70212758	1	RING, lens retaining
9	70067110	1	BRACKET, mounting
10	70066862	1	CAPSCREW, 5/8"NF x 4"
	70904209	1	LOCKWASHER, 5/8"
	70911044	1	NUT, 5/8"NF
11	70067112	1	BLOCK, spacing, mounting bracket

(Continued)

TAIL LIGHT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
12	70084237	1	CABLE, rear section (50" long)
13	70208960	1	FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes
14	70084239	1	CABLE, front section (90" long)
15	70036887	1	GROMMET, rear cable (Required only on tractors equipped with cab)
16	70200479	5	CLIP, front cable (3/16" diam., 13/32" bolt-hole)
17	70235794	1	CLIP, rear cable (1/4" diam., 13/32" bolt-hole)
18	70035979	1	CAPSCREW, 3/8"NF x 5/8"
	70904206	1	LOCKWASHER, 3/8"
	70911115	1	WASHER, plain, SAE std., 3/8"
19	70044044	1	CLIP, rear cable (1/4" diam., 17/32" bolt-hole)
20	-----	1	SWITCH (See INSTRUMENTS)



TAIL LIGHT

T-15175

USAGE: Special equipment effective July 1956. Applicable to all tractors except those equipped with Rear Flood Light

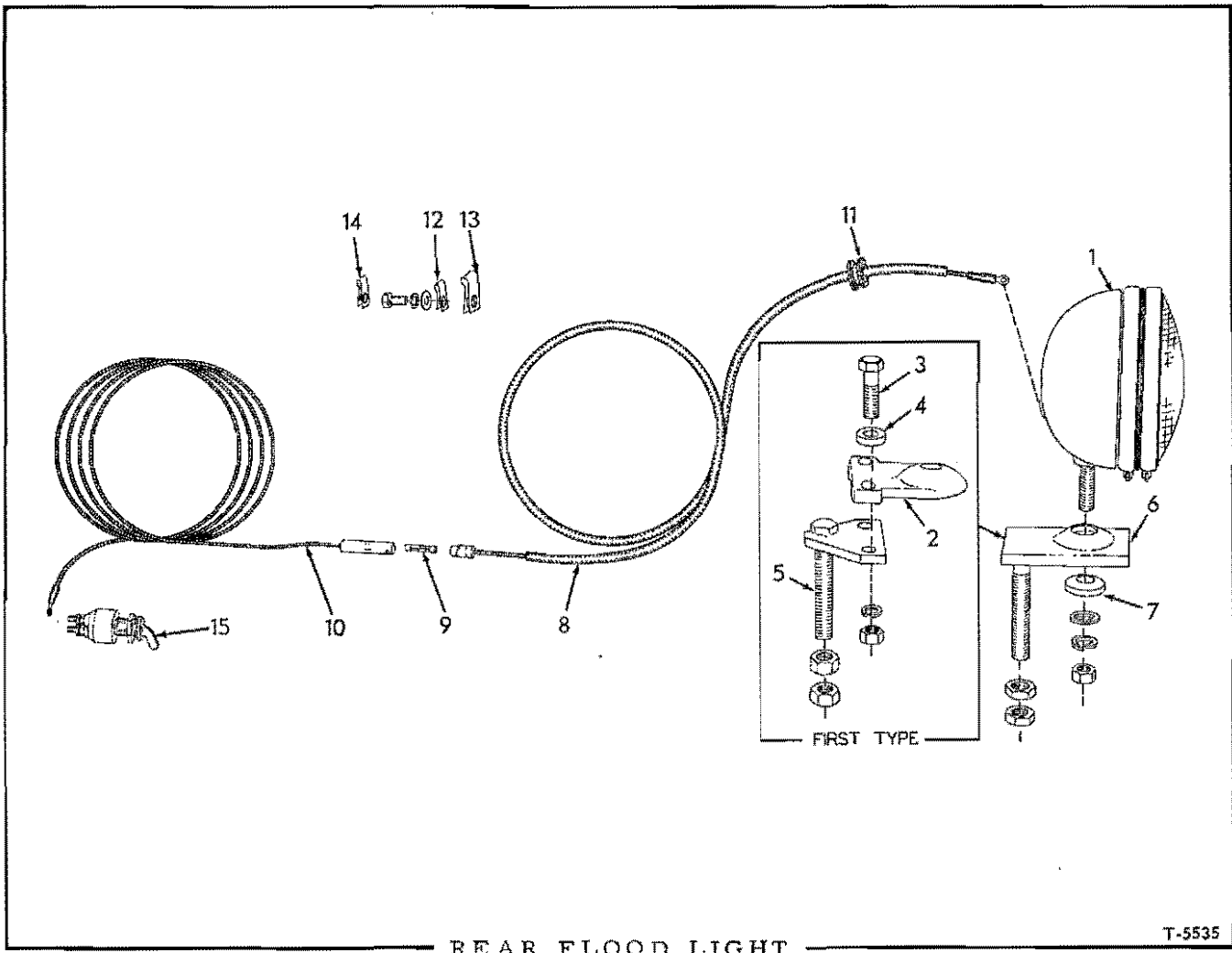
* Used prior to December 1961
 ** Effective December 1961

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	-----	1	-	LIGHT ASSEMBLY, tail (Consists of items 2 thru 6) (Order LIGHT ASSEMBLY 70630147 and CABLE ASSEMBLY 70630148)
	70630147	-	1	LIGHT ASSEMBLY, tail (Consists of items 2 thru 5)
	70904204	2	2	LOCKWASHER, 1/4"
	70911024	2	2	NUT, 1/4"NC
2	-----	1	1	BODY ASSEMBLY (Not serviced separately)
3	70074452	1	1	BULB, incandescent, single contact, 6 c. p., 24 volt
4	70068399	1	-	GASKET, tail light lens (1/16" thick)
	70629189	-	1	GASKET, tail light lens (3/16" thick)

(Continued)

TAIL LIGHT (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
5	70068405	1	-	LENS, tail light (3-1/2" O.D.)
	70629188	-	1	LENS, tail light (3-11/16" O.D.)
	70917883	-	2	SCREW, thread-cutting, rd-hd., #8 x 5/8"
6	70068404	1	-	DOOR, tail light
	70917883	2	-	SCREW, thread-cutting, rd-hd., #8 x 5/8"
7	70067110	1	1	BRACKET, tail light mounting
8	70066862	1	1	CAPSCREW, 5/8"NF x 4"
	70904209	1	1	LOCKWASHER, 5/8"
	70911044	1	1	NUT, 5/8"NF
9	70067112	1	1	BLOCK, spacing, mounting bracket
10	70630148	-	1	CABLE ASSEMBLY, rear section (Includes plug)
11	70048142	1	1	CONNECTOR, cable
12	70089292	1	1	CABLE, intermediate section (50" long)
13	70208960	1	1	FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes
14	70084239	1	1	CABLE, front section (90" long)
15	-----	1	1	SWITCH (See INSTRUMENTS)
16	70235794	1	-	CLIP, cable supporting (1/4" diam., 13/32" bolt-hole)(Used prior to tractor #4001)
	70035979	1	-	CAPSCREW, 3/8"NF x 5/8"
	70904206	1	-	LOCKWASHER, 3/8"
	70911115	1	-	WASHER, plain, SAE std., 3/8"
	70073809	10	10	CLIP, cable supporting (3/16" diam., 13/32" bolt-hole)(Effective with tractor #4001)
	70035979	2	2	CAPSCREW, 3/8"NF x 5/8"
	70035167	2	2	CAPSCREW, 3/8"NF x 7/8"
17	70904206	4	4	LOCKWASHER, 3/8"
	70911041	2	2	NUT, 3/8"NF
17	70044044	1	-	CLIP, cable supporting (1/4" diam., 17/32" bolt-hole)(Used prior to tractor #4001)
	70223502	1	1	CLIP, cable supporting (3/16" diam., 17/32" bolt-hole) (Effective with tractor #4001)
18	70200479	5	-	CLIP, cable supporting (3/16" diam., 13/32" bolt-hole)(Used prior to tractor #4001)



USAGE: Special Equipment. Applicable to all tractors except those equipped with TAIL LIGHT

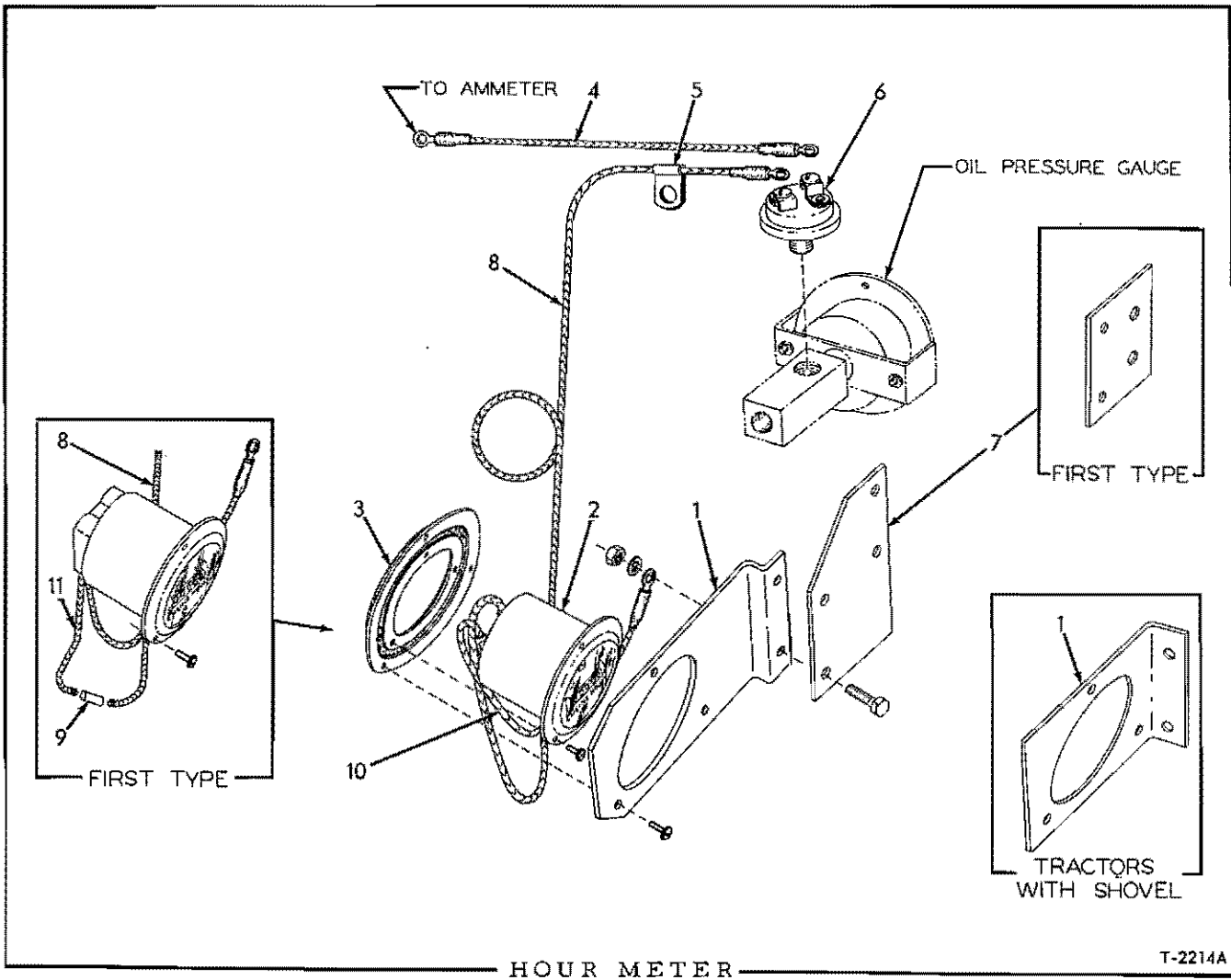
ITEM PART NO. QTY. DESCRIPTION

1	70074388	1	LIGHT ASSY. (See page 539 for parts)(Used prior to July 1958. Order 1 each LIGHT ASSY, 70638283, WASHER 70075535, WASHER 70900818, LOCKWASHER 70904208 and NUT 70911043)	
	70904206	1	LOCKWASHER, 3/8"	
	70911026	1	NUT, 3/8"NC	
	70097030	1	LIGHT ASSEMBLY (See page 543 for parts)(Effective July 1958. Original equipment. Order LIGHT ASSEMBLY 70638283)	
	70638283	1	LIGHT ASSEMBLY (See page 544 for parts)(Service replacement)	
	70900818	1	WASHER, plain, U.S. std., 1/2"	
	70904208	1	LOCKWASHER, 1/2"	
	70911043	1	NUT, 1/2"NF	
	2	-----	1	BRACKET, mounting (Used prior to July 1958. Order item 6)
	3	70035067	2	CAPSCREW, 1/2"NF x 2"
4	70064531	2	WASHER, plain	
	70904208	2	LOCKWASHER, 1/2"	
	70911043	2	NUT, 1/2"NF	

(Continued)

REAR FLOOD LIGHT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
5	-----	1	PLATE, mounting (Used prior to July 1958. Order item 6)
	70911044	2	NUT, 5/8"NF
6	70094630	1	BRACKET, mounting (Effective July 1958)
	70911044	2	NUT, 5/8"NF
7	70053277	1	WASHER, mounting (For LIGHT ASSEMBLY 70074388 only)
	70075535	1	WASHER, mounting (For LIGHT ASSY. 70097030 and 70638283 only)
8	70084238	1	CABLE, rear section (57" long)
9	70208960	1	FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes
10	70084239	1	CABLE, front section (90" long)
11	70036887	1	GROMMET, cable protecting (For tractors with Cab)
12	70235794	1	CLIP, cable supporting (1/4" diam., 13/32" bolt-hole)(Used prior to tractor #4001)
	70035979	1	CAPSCREW, 3/8"NF x 5/8"
	70904206	1	LOCKWASHER, 3/8"
	70911115	1	WASHER, plain, SAE std., 3/8"
	70073809	10	CLIP, cable supporting (3/16" diam., 13/32" bolt-hole) (Effective with tractor #4001)
	70035979	2	CAPSCREW, 3/8"NF x 5/8"
	70035167	2	CAPSCREW, 3/8"NF x 7/8"
	70904206	4	LOCKWASHER, 3/8"
13	70044044	1	CLIP, cable supporting (1/4" diam., 17/32" bolt-hole)(Used prior to tractor #4001)
	70223502	1	CLIP, cable supporting (3/16" diam., 17/32" bolt-hole)(Effective with tractor #4001)
14	70200479	2	CLIP, cable supporting (3/16" diam., 13/32" bolt-hole)(Used prior to tractor #4001)
15	-----	1	SWITCH (See INSTRUMENTS)



T-2214A

USAGE: Special Equipment.

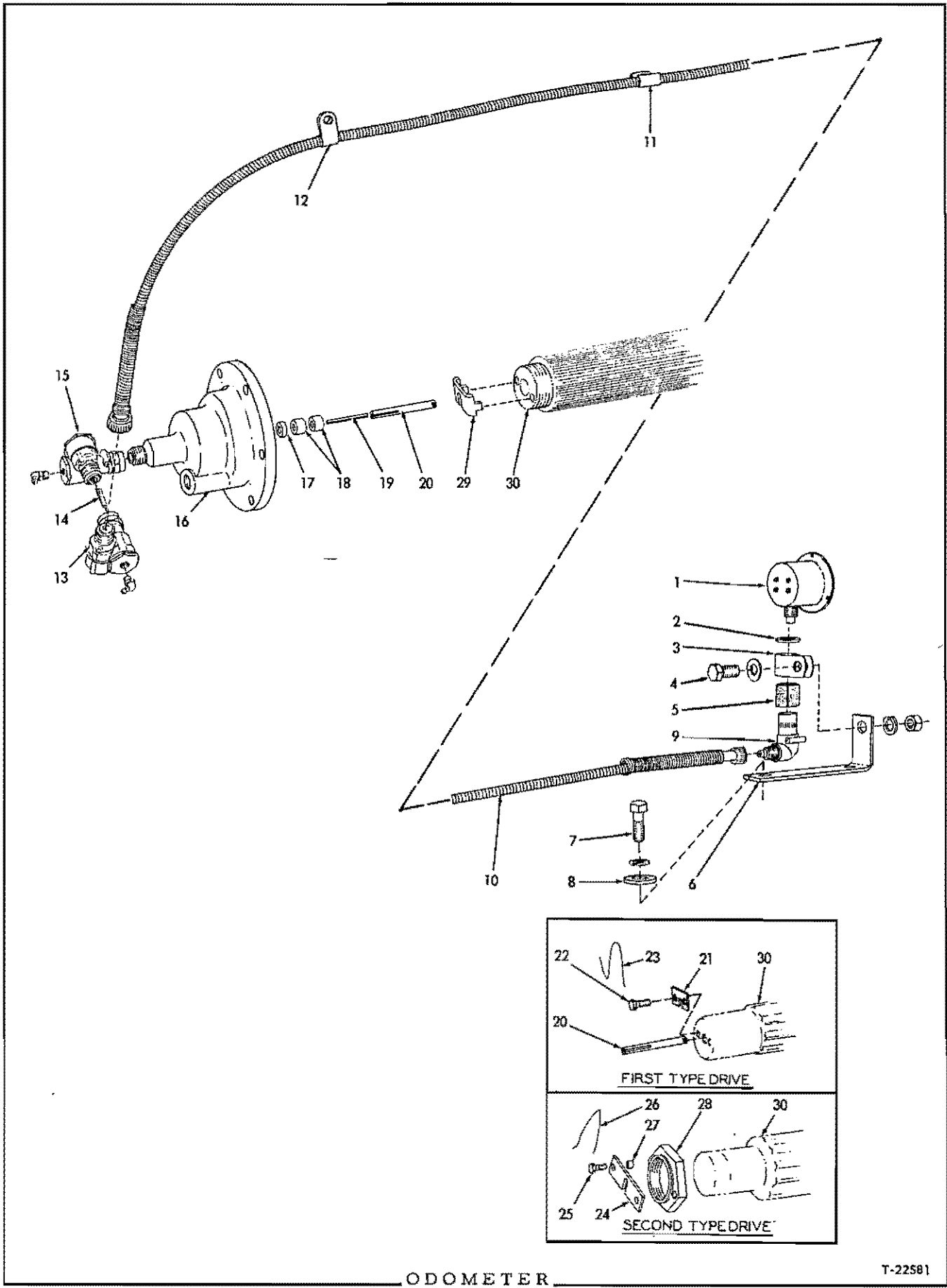
* All models except HD16GC
 ** Model HD16GC

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	70086947	1 -	BRACKET, mounting
	70069317	- 1	BRACKET, mounting
	70912789	2 -	CAPSCREW, 1/4"NF x 3/4"
	70910874	- 2	CAPSCREW, 1/4"NF x 1"
	70904204	- 2	LOCKWASHER, 1/4"
	70906958	2 -	LOCKWASHER, internal teeth, 1/4"
	70911040	2 -	NUT, 1/4"NF
2	70099220	1 1	METER, hour (24 volt)(Used prior to tractor #5580. Order 1 each METER 70623889, CABLE 70630917 and CABLE 70631639)
	70623889	1 1	METER, hour (24 volt)(Effective with tractor #5580)
	70918210	3 3	SCREW ASSEMBLY, #6 x 1/2" (Includes lockwasher)

(Continued)

HOUR METER (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
<u>NOTE:</u> Meter carries manufacturer's warranty and in case of failure should be returned direct to John W. Hobbs Corporation, Springfield, Illinois for repairs				
3	70066467	1	1	DAMPER, vibration
	70918210	3	3	SCREW ASSEMBLY, #6 x 1/2" (Includes lockwasher)
4	70605808	1	1	CABLE, pressure switch to ammeter (10" long)
5	70238136	1	-	CLIP, cable supporting (3/16" diam., 9/32" bolt-hole)
	70040796	-	1	CLIP, cable supporting (3/8" diam., 13/32" bolt-hole)(Used prior to tractor #4001)
	70036032	-	1	CAPSCREW, 3/8"NF x 3/4"
	70904206	-	1	LOCKWASHER, 3/8"
	70911041	-	1	NUT, 3/8"NF
6	70050288	1	1	SWITCH, pressure
7	70085571	1	-	PLATE, extension (Used prior to tractor #4001)
	70098126	1	-	PLATE, extension (Effective with tractor #4001)
} Used only with ENGINE SIDE SCREENS				
8	70099219	1	1	CABLE, meter to pressure switch (28" long)(Used prior to tractor #5580)
	70630626	1	1	CABLE, meter to pressure switch (34" long)(Effective with tractor #5580)
9	70048142	1	1	CONNECTOR, meter cable (Used prior to tractor #5580)
10	70630917	1	1	CABLE, meter to ground (8" long)(Effective with tractor #5580)
11	70631639	1	1	CABLE, meter connecting (7-1/2" long)(Used only with item 2 when replacing early type meter)



ODOMETER

T-22581

ODOMETER

USAGE: Special Equipment on tractors prior to serial No. 5154 excluding No. 5104. Not applicable to units equipped with Power Brakes

* Models HD16AC, DC, FC
** Models HD16A, D

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	-----	1	1	ODOMETER (registers miles)(Discontinued)
	70057784	1	1	ODOMETER (registers kilometers)
2	70630785	1	1	WASHER, spacing
3	70055536	1	1	CLIP, odometer mounting (1" diam., 17/32" bolt-hole)
4	70070467	1	1	CAPSCREW, 1/2"NF x 1"
	70910244	1	1	WASHER, plain, SAE std., 1/2"
	70904208	1	1	LOCKWASHER, 1/2"
	70911043	1	1	NUT, 1/2"NF
5	70084284	1	1	STRIP, cushion, odometer mounting (rubber)
6	70084283	1	1	ANGLE, odometer mounting
7	70035073	1	1	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	1	1	LOCKWASHER, 1/2"
8	70064531	1	1	WASHER, plain
9	70077687	1	1	ADAPTER ASSEMBLY (90° elbow. Direct drive)(Serviced only as a unit)
10	70084891	1	1	SHAFT ASSEMBLY, flexible (52-1/2" long)(Serviced only as a unit)
11	70034152	1	1	CLIP, shaft supporting (7/16" diam., 17/32" bolt-hole)
12	70033043	1	1	CLIP, shaft supporting (7/16" diam., 13/32" bolt-hole)
13	-----	1	-	ADAPTER ASSEMBLY (Reduction ratio 1 to .300. Includes FITTING indented below)(Discontinued)
	70077680	-	1	ADAPTER ASSEMBLY (Reduction ratio 1 to .266. Includes FITTING indented below. Serviced only as a unit)
	70915275	1	1	FITTING, lubricating, 65°, 1/8"NPT
14	70078407	1	1	KEY, adapter drive (1-9/16" long)
15	-----	1	-	ADAPTER ASSEMBLY (Reduction ratio 1 to .200. Includes FITTING indented below)(Discontinued)
	-----	-	1	ADAPTER ASSEMBLY (Reduction ratio 1 to .181. Includes FITTING indented below)(Discontinued)
	70915275	1	1	FITTING, lubricating 65°, 1/8"NPT
16	70079540	1	1	COVER ASSEMBLY, pinion shaft (Includes items 17 and 18)(Replaces standard COVER 70069366 on tractors prior to #5043)
	70620514	1	1	COVER ASSEMBLY, pinion shaft (Includes items 17 and 18)(Replaces standard COVER 70098923 on tractors #5043 and up)
17	70069641	1	1	SEAL, oil, drive shaft
18	70079536	2	2	BUSHING, drive shaft

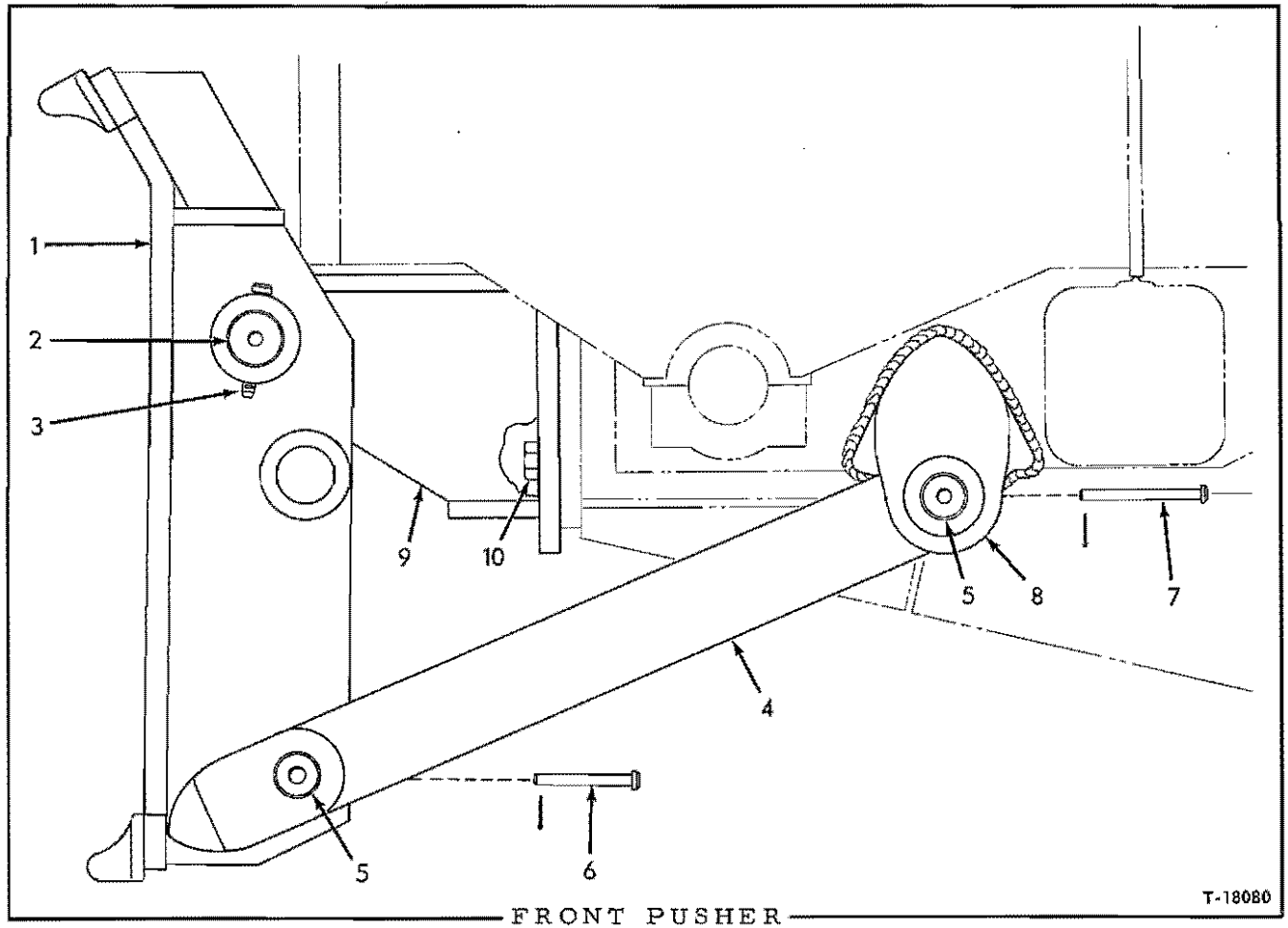
(Continued)

ODOMETER (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
19	70079887	1	1	KEY, drive shaft
20	70079534	1	1	SHAFT, drive
21	70079535	1	1	LOCK, drive shaft (Used prior to tractor #3100 on Models HD16AC, DC, FC and prior to #4085 on Models HD16A, D)
22	70012468	2	2	CAPSCREW, drilled-hd., 5/16"NC x 7/8"
23	70023633	1	1	WIRE, locking, 1/16" x 12"

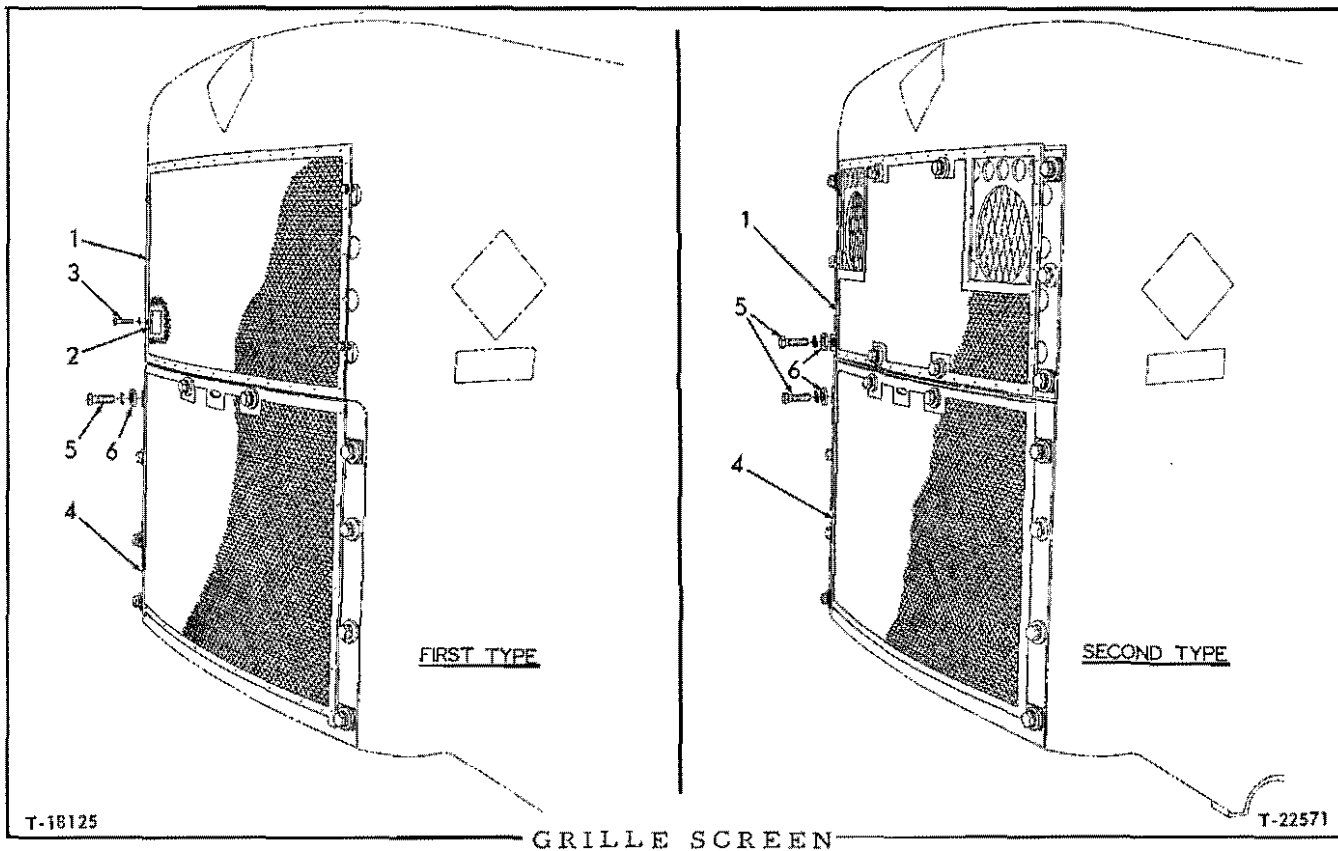
NOTE: Items 24 thru 28 comprise the Second Type Drive used on Model HD16AC, DC, FC tractors #3100 thru #5042 and on Model HD16A, D tractors #4085 thru #5042

24	70095672	1	1	PLATE, driving
25	70011089	2	2	CAPSCREW, drilled-hd., 1/4" NF x 3/4"
26	70023633	1	1	WIRE, locking, 1/16" x 12"
27	70095676	2	2	SPACER, driving plate
28	70095674	1	1	NUT, bevel pinion (Replaces standard NUT 078862)
29	70620515	1	1	COUPLING, drive (Effective with tractor #5043)
30	-----	1	1	PINION (See TRANSMISSION PINION SHAFT)



USAGE: Special equipment. Applicable to Models HD16A, AC, D, DC

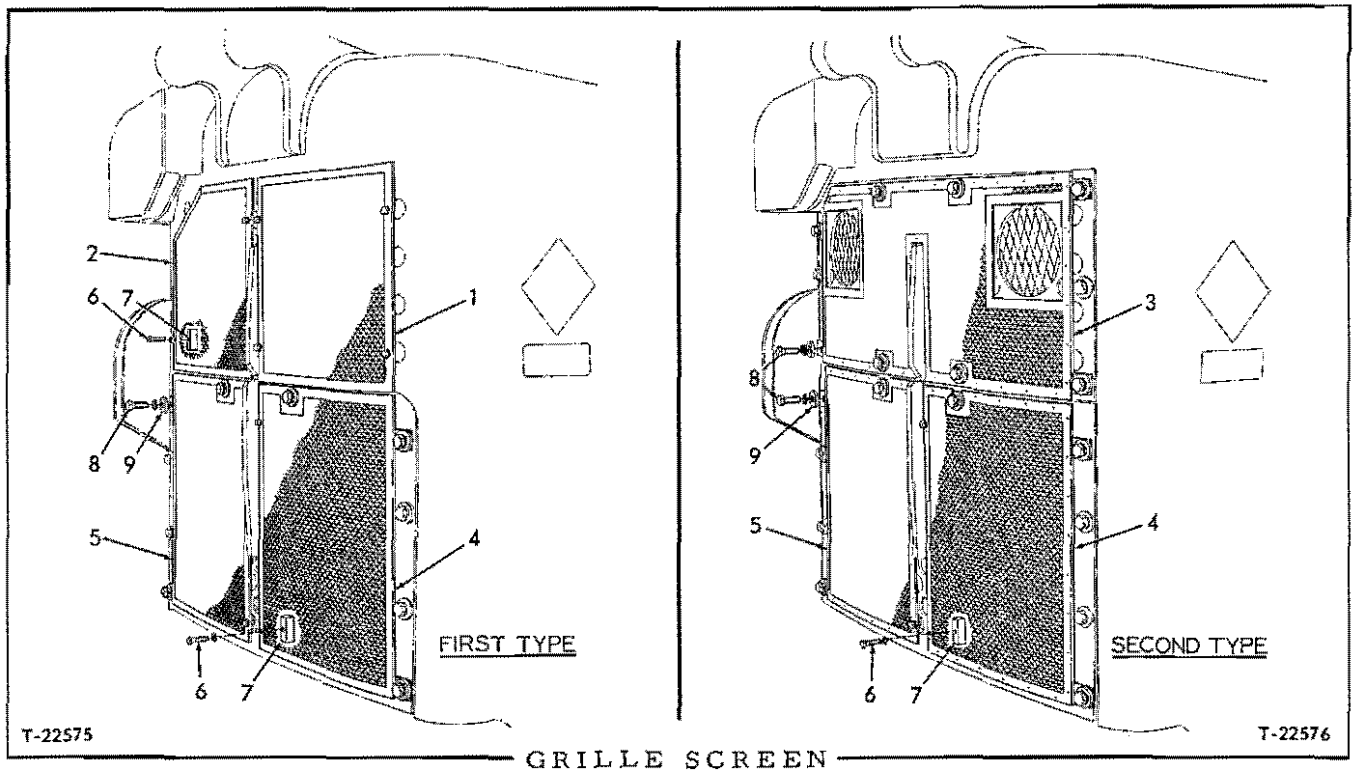
ITEM	PART NO.	QTY.	DESCRIPTION
1	70080052	1	PUSHER
2	70078497	2	PIN, pusher mounting
3	70078508	2	PIN, retaining, pusher mounting pin
	70900806	2	PIN, cotter, 1/8" x 1"
4	70085658	2	STRUT, pusher bracing
5	70080043	4	PIN, bracing strut
6	70080952	2	PIN, retaining, bracing strut pin, front
	70900806	2	PIN, cotter, 1/8" x 1"
7	70085657	2	PIN, retaining, bracing strut pin, rear
	70900806	2	PIN, cotter, 1/8" x 1"
8	70085659	2	LUG, strut attachment (Requires welding to main frame)
9	70084142	1	BRACKET, mounting
10	70031055	6	CAPSCREW, 1"NF x 3-3/4"
	70910916	6	LOCKWASHER, 1"
	70911047	6	NUT, 1"NF



USAGE: Special equipment. Applicable to tractors equipped with Standard Radiator Guard.
See pages 587 and 589 for other units.

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70087907	1	-	SCREEN, upper section
	70093414	-	1	SCREEN, upper section
2	70087849	4	-	BLOCK, screen attaching capscrew (3/8"NF thread)
3	70203188	4	-	CAPSCREW, upper screen attaching (3/8"NF x 1-1/2")
	70904206	4	-	LOCKWASHER, 3/8"
4	70087897	1	1	SCREEN, lower section
5	70035229	6	14	CAPSCREW, screen attaching (5/8"NF x 2")(Early units)
	70071113	-	14	CAPSCREW, screen attaching (5/8"NC x 2")(Late units)
6	70904209	6	14	LOCKWASHER, 5/8"
	70064810	6	14	WASHER, plain

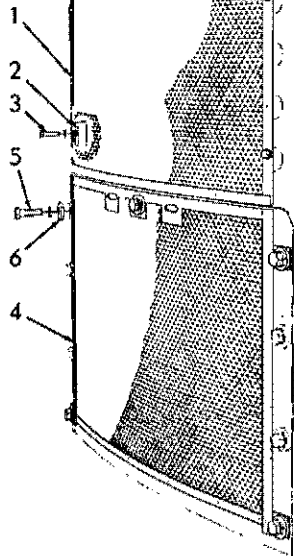
* Used prior to tractor serial No. 2733
** Effective with tractor serial No. 2733



USAGE: Special equipment. Applicable to tractors equipped with Cable Radiator Guard.
See pages 586 and 589 for other units.

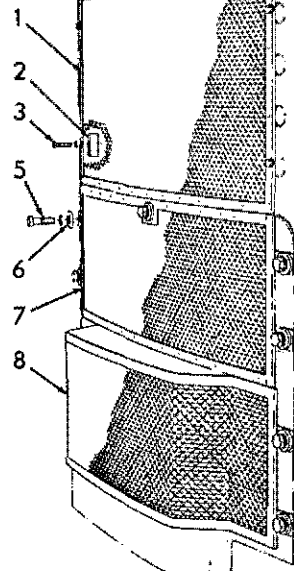
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70088130	1	-	SCREEN, upper section, left
2	70088129	1	-	SCREEN, upper section, right
3	70093616	-	1	SCREEN, upper section
4	70088115	1	1	SCREEN, lower section, left (Used with rear-mounted cable control unit)
	70098067	-	1	
5	70088116	1	1	SCREEN, lower section, right (Used with rear-mounted cable control unit)
	70098068	-	1	
6	70203188	11	4	CAPSCREW, screen attaching (3/8"NF x 1-1/2")
	70904206	11	4	
7	70087849	11	4	BLOCK, screen attaching capscrew (3/8"NF thread)
8	70035229	6	14	CAPSCREW, screen attaching (5/8"NF x 2")(Early units)
	70071113	-	14	
9	70904209	6	14	LOCKWASHER, 5/8"
	70064810	6	14	

* Used prior to tractor serial No. 2945
** Effective with tractor serial No. 2945



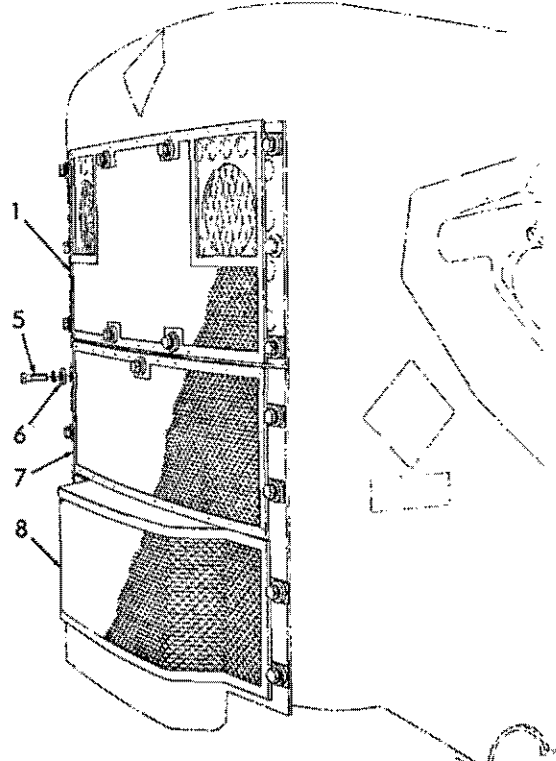
T-22572

MODELS HD16A AND HD16AC
(FIRST TYPE)



T-22573

MODELS HD16A AND HD16AC
(SECOND TYPE)



T-22574

MODELS HD16D AND HD16DC

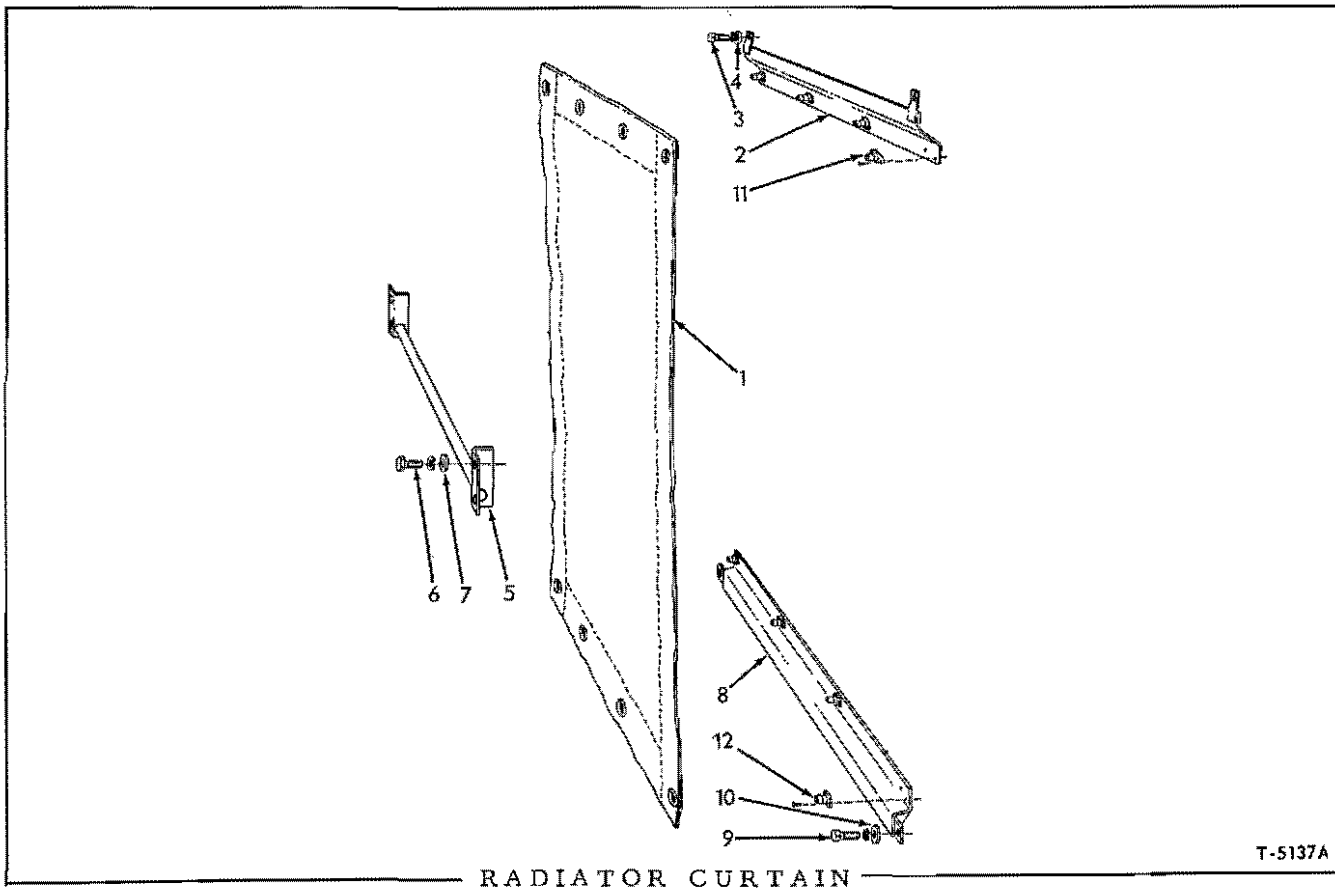
GRILLE SCREEN (For Hydraulic Guard)

GRILLE SCREEN

USAGE: Special equipment. Applicable to tractors equipped with Hydraulic Radiator Guard.
See pages 586 and 587 for other units.

* Models HD16A, AC prior to tractor serial No. 2302, including No. 2388.
** Model HD16A, AC tractors serial No. 2302 thru No. 4137 excluding No. 2388
*** Models HD16D, DC; also Models HD16A, AC effective with tractor serial No. 4138

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70087907	1	1	-	SCREEN, upper section
	70093414	-	-	1	SCREEN, upper section
2	70087849	4	4	-	BLOCK, screen attaching capscREW (3/8"NF thread)
3	70203188	4	4	-	CAPSCREW, screen attaching (3/8"NF x 1-1/2")
	70904206	4	4	-	LOCKWASHER, 3/8"
4	70087897	1	-	-	SCREEN, lower section
5	70035229	5	9	17	CAPSCREW, screen attaching (5/8"NF x 2")(Early units)
	70071113	-	-	17	CAPSCREW, screen attaching (5/8"NC x 2")(Late units)
6	70904209	5	9	17	LOCKWASHER, 5/8"
	70064810	5	9	17	WASHER, plain
7	70095105	-	1	1	SCREEN, lower section, upper half
8	70095100	-	1	1	SCREEN, lower section, lower half

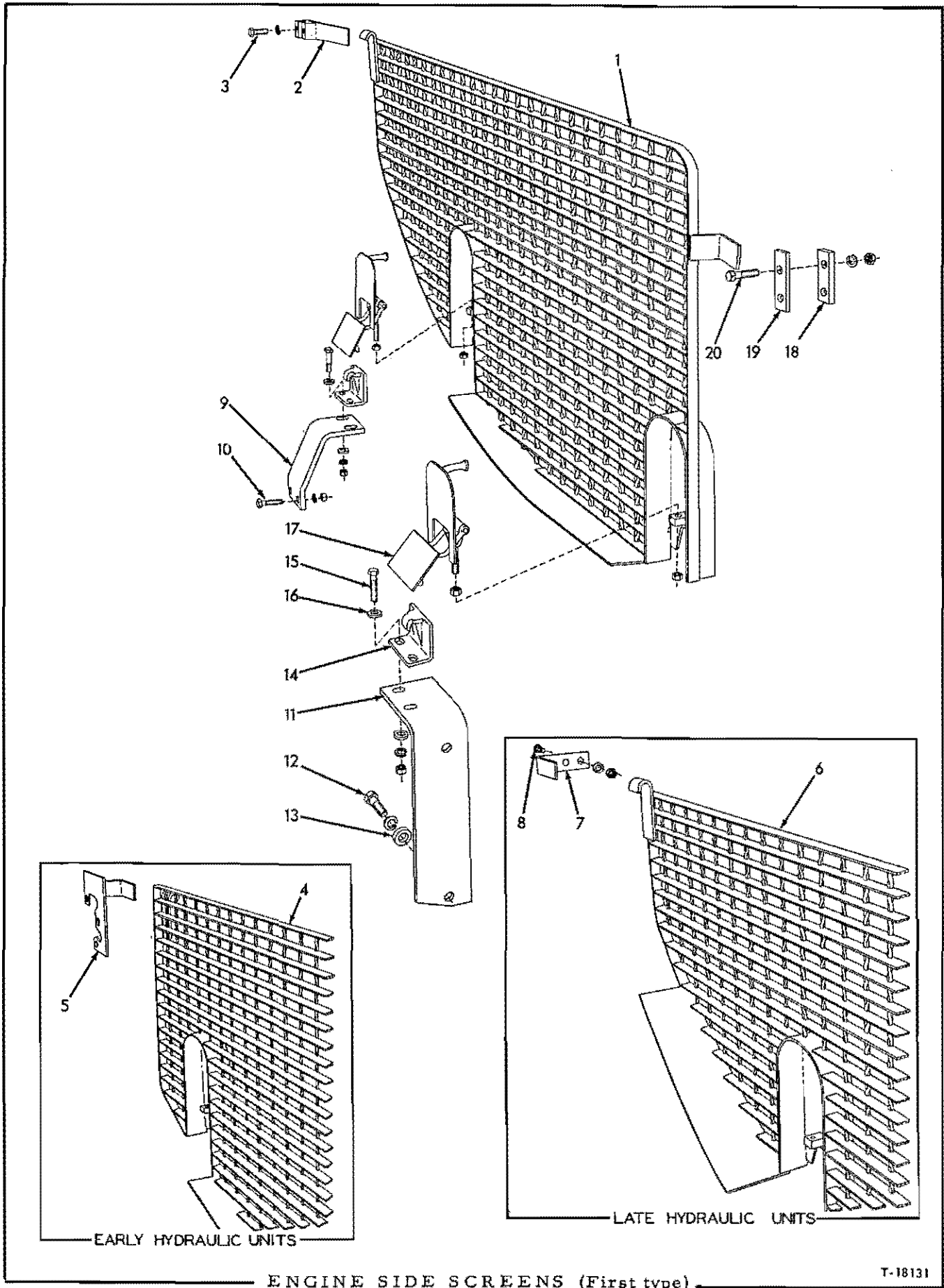


USAGE: Special equipment. Cannot be used on tractors with push-type fan.

ITEM PART NO. QTY. DESCRIPTION

1	70084177	1	CURTAIN
2	70080274	1	BRACKET ASSEMBLY, curtain attaching, upper (Includes item 11)
3	70012992	2	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	LOCKWASHER, 3/8"
4	70044973	2	WASHER, plain
5	70085275	1	ROD, curtain supporting
6	70012992	2	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	LOCKWASHER, 3/8"
7	70044973	2	WASHER, plain
8	70073853	1	BRACKET ASSEMBLY, curtain attaching, lower (Includes item 12)
9	70012992	2	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	LOCKWASHER, 3/8"
10	70044973	2	WASHER, plain
11	70066661	4	FASTENER, curtain (short type)
	70912839	8	RIVET, ctsk-hd., 1/8" x 1/4"
12	70066662	4	FASTENER, curtain (long type)
	70912839	8	RIVET, ctsk-hd., 1/8" x 1/4"

MEMO



ENGINE SIDE SCREENS (First type)

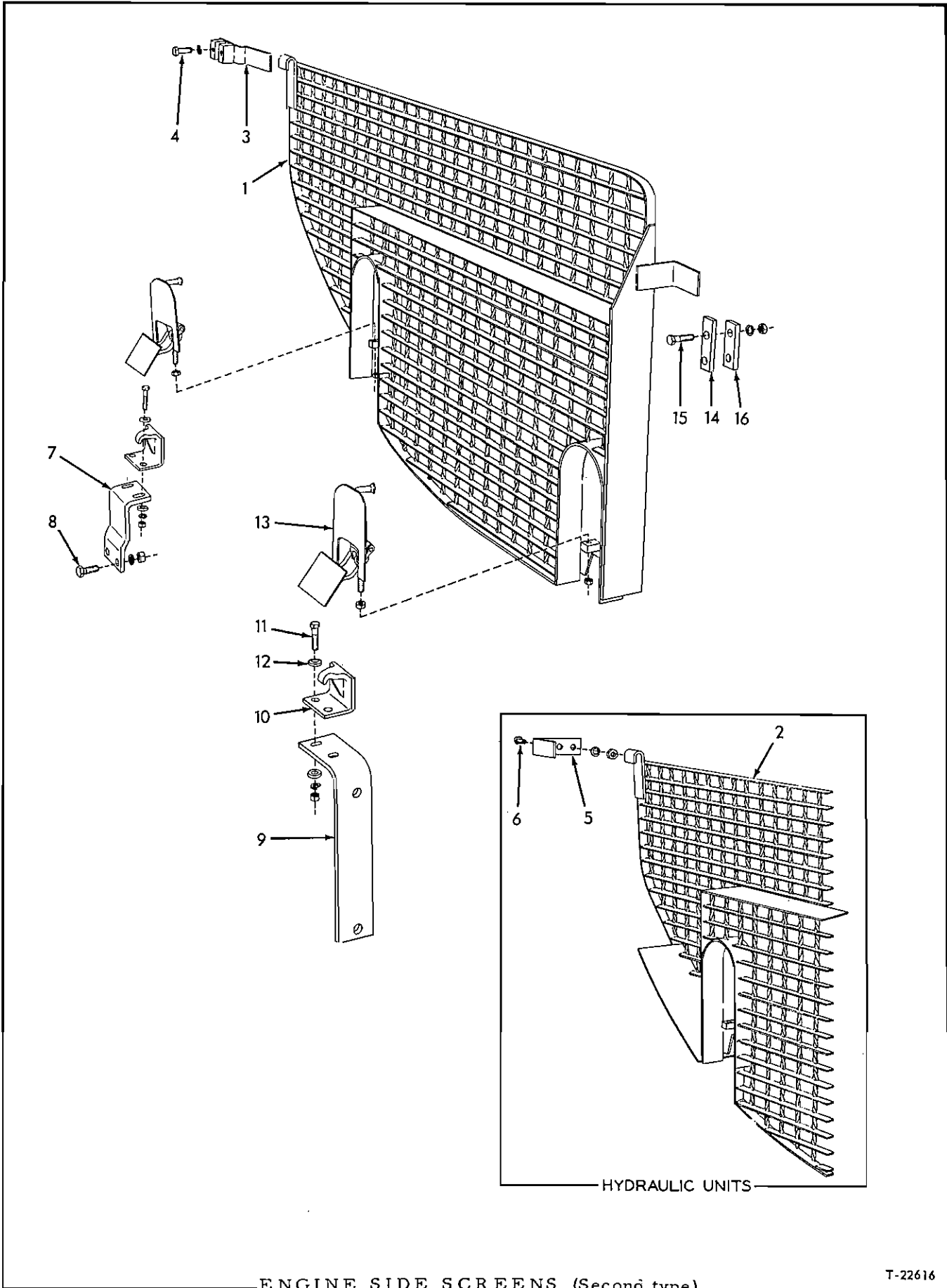
T-18131

ENGINE SIDE SCREENS

USAGE: Special equipment. Applicable to Model HD16A, AC, D, DC tractors prior to serial No. 4001

* Tractors equipped with Standard or Cable Radiator Guard
 ** Tractors equipped with Hydraulic Radiator Guard prior to serial No. 2302, including No. 2388
 *** Tractors equipped with Hydraulic Radiator Guard effective with serial No. 2302, excluding No. 2388

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70083893	1	-	-	SCREEN, left
	70083894	1	-	-	SCREEN, right
2	70085224	2	-	-	BRACKET, front suspension
3	70070469	4	-	-	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	4	-	-	LOCKWASHER, 1/2"
4	70089921	-	1	-	SCREEN, left
	70089922	-	1	-	SCREEN, right
5	70089915	-	1	-	BRACKET, front suspension, left
	70089916	-	1	-	BRACKET, front suspension, right
6	70092741	-	-	1	SCREEN, left
	70092742	-	-	1	SCREEN, right
7	70091835	-	-	2	ANGLE, front suspension
8	70070469	-	-	4	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	-	-	4	LOCKWASHER, 1/2"
	70911043	-	-	4	NUT, 1/2"NF
9	70085447	2	2	-	ANGLE, latching bracket supporting, front
	70092738	-	-	2	ANGLE, latching bracket supporting, front
10	70070469	4	4	4	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	4	4	4	LOCKWASHER, 1/2"
	70911043	4	4	4	NUT, 1/2"NF
11	70085497	1	1	1	ANGLE, latching bracket supporting, left rear
	70085498	1	1	1	ANGLE, latching bracket supporting, right rear
12	70035073	4	4	4	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	4	4	4	LOCKWASHER, 1/2"
13	70064531	4	4	4	WASHER, plain
14	70091063	4	4	4	BRACKET, latching
15	70203188	8	8	8	CAPSCREW, 3/8"NF x 1-1/2"
16	70044973	16	16	16	WASHER, plain
	70904206	8	8	8	LOCKWASHER, 3/8"
	70911041	8	8	8	NUT, 3/8"NF
17	70093401	4	4	4	LATCH ASSEMBLY (Serviced only as a unit)
	70911041	8	8	8	NUT, 3/8"NF
18	70085189	2	2	2	BLOCK, spacing
19	70085193	2	2	2	BLOCK, retaining
20	70203188	4	4	4	CAPSCREW, 3/8"NF x 1-1/2"
	70904206	4	4	4	LOCKWASHER, 3/8"
	70911041	4	4	4	NUT, 3/8"NF



ENGINE SIDE SCREENS (Second type)

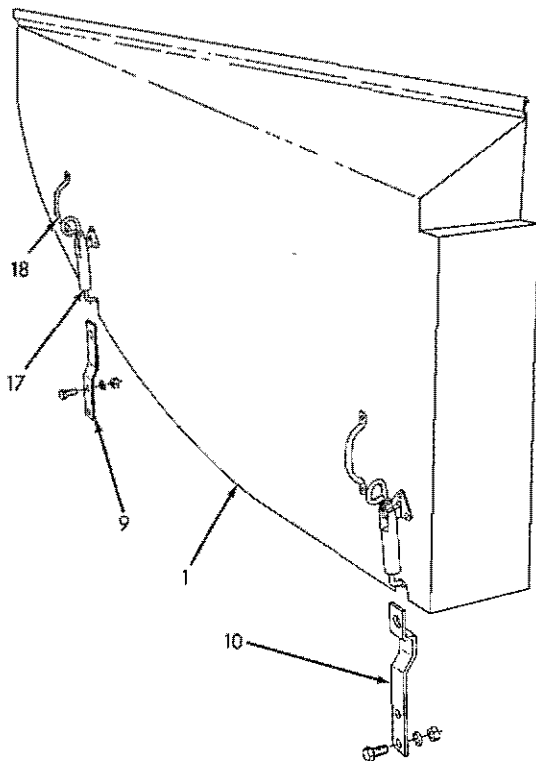
T-22616

ENGINE SIDE SCREENS

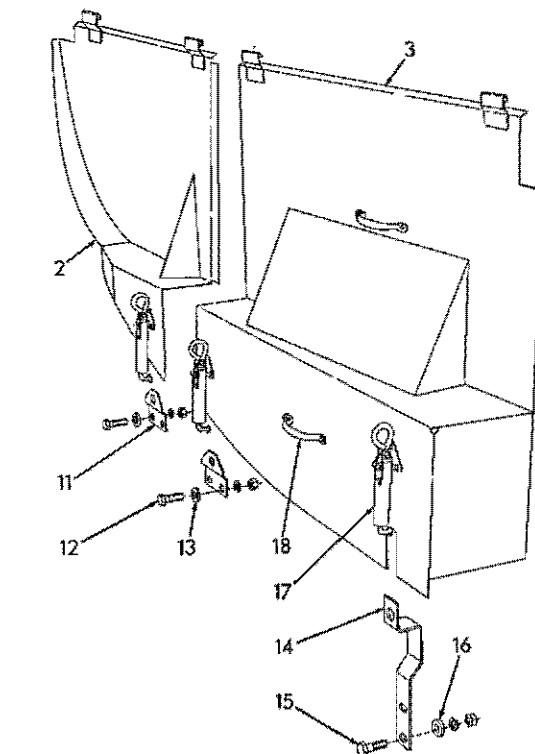
USAGE: Special equipment. Applicable to Model HD16A, AC, D, DC tractors serial No. 4001 and up

* Tractors equipped with Standard or Cable Radiator Guard
 ** Tractors equipped with Hydraulic Radiator Guard

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70097811	1	-	SCREEN, left side
	70083894	1	-	SCREEN, right side
2	70097776	-	1	SCREEN, left side
	70092742	-	1	SCREEN, right side
3	70085224	2	-	BRACKET, front suspension
4	70070469	4	-	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	4	-	LOCKWASHER, 1/2"
5	70091835	-	2	ANGLE, front suspension
6	70070469	-	4	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	-	4	LOCKWASHER, 1/2"
	70911043	-	4	NUT, 1/2"NF
7	70097778	1	1	ANGLE, latch supporting, left front
	70085447	1	-	ANGLE, latch supporting, right front
	70092738	-	1	ANGLE, latch supporting, right front
8	70070469	4	4	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	4	4	LOCKWASHER, 1/2"
	70911043	4	4	NUT, 1/2"NF
9	70097779	1	1	ANGLE, latch supporting, left rear
	70085498	1	1	ANGLE, latch supporting, right rear
10	70091063	4	4	BRACKET, latching
11	70203188	8	8	CAPSCREW, 3/8"NF x 1-1/2"
12	70044973	16	16	WASHER, plain
	70904206	8	8	LOCKWASHER, 3/8"
	70911041	8	8	NUT, 3/8"NF
13	70093401	4	4	LATCH ASSEMBLY (Serviced only as a unit)
	70911041	8	8	NUT, 3/8"NF
14	70085193	2	2	BLOCK, retaining
15	70203188	4	4	CAPSCREW, 3/8"NF x 1-1/2"
	70904206	4	4	LOCKWASHER, 3/8"
	70911041	4	4	NUT, 3/8"NF
16	70085189	2	2	BLOCK, spacing



FIRST TYPE

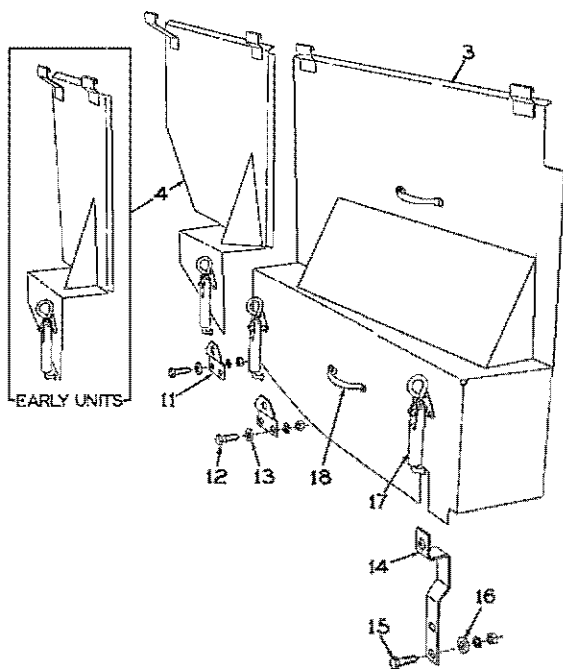


SECOND TYPE

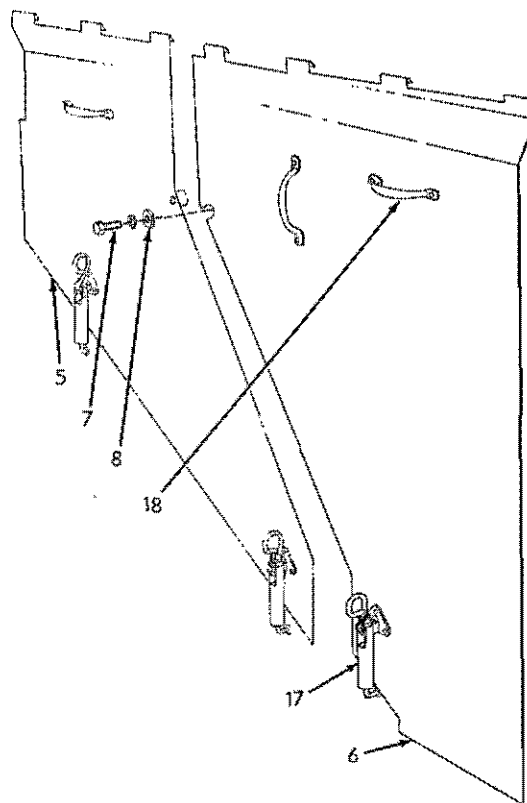
T-18084

STANDARD AND CABLE UNITS

T-18126



HYDRAULIC UNITS



MODEL HD16GC

T-18127

HOOD SIDE PLATES

T-18128

HOOD SIDE PLATES

USAGE: Special equipment. Applicable to all models except HD16FC

- * Tractors equipped with Standard or Cable Radiator Guard prior to May 1962
- ** Tractors equipped with Standard or Cable Radiator Guard effective May 1962
- △ Tractors equipped with Hydraulic Radiator Guard
- △△ Model HD16GC

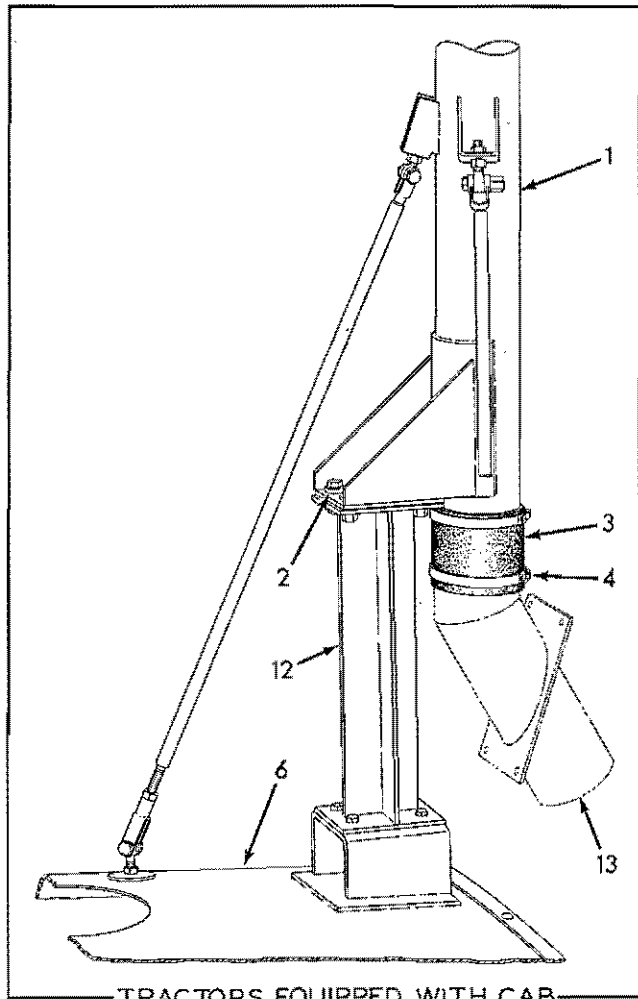
ITEM	PART NO.	QUANTITY				DESCRIPTION
		*	**	△	△△	
1	-----	1	-	-	-	PLATE ASSY., left side (Includes items 17 and 18)(Order 1 each STRAP 70091790, PLATE ASSY. 70093641, PLATE ASSY 70097730; 2 each BRACKET 70091805, NUT 70911043; 6 each CAPSCREW 70035018, WASHER 70064531; also 1 PRINT 70093639)
	-----	1	-	-	-	PLATE ASSY., right side (Includes items 17 and 18) (Order 1 each STRAP 70091790, PLATE ASSY. 70093642, PLATE ASSY. 70093654; 2 each BRACKET 70091805, NUT 70911043; 6 each CAPSCREW 70035018, WASHER 70064531; also 1 PRINT 70093639)
2	70093641	-	1	-	-	PLATE ASSEMBLY, front, left side (Includes item 17)
	70093642	-	1	-	-	PLATE ASSEMBLY, front, right side (Includes item 17)
3	70097730	-	1	1	-	PLATE ASSEMBLY, rear, left side (Includes items 17 and 18)
	70093654	-	1	1	-	PLATE ASSEMBLY, rear, right side (Includes items 17 and 18)
4	70093651	-	-	1	-	PLATE ASSEMBLY, front, left side (Includes item 17)(Used prior to tractor #2302, including #2388)
	70093663	-	-	1	-	PLATE ASSEMBLY, front, left side (Includes item 17) (Effective with tractor #2302, excluding #2388)
	70093652	-	-	1	-	PLATE ASSEMBLY, front, right side (Includes item 17)(Used prior to tractor #2302, including #2388)
	70093664	-	-	1	-	PLATE ASSEMBLY, front, right side (Includes item 17) (Effective with tractor #2302, excluding #2388)
5	-----	-	-	-	2	PLATE ASSEMBLY (See HOOD)
6	70090069	-	-	-	1	PLATE ASSEMBLY, left side (Includes items 17 and 18)
	70090070	-	-	-	1	PLATE ASSEMBLY, right side (Includes items 17 and 18)
7	70035061	-	-	-	2	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	-	-	-	2	LOCKWASHER, 1/2"
8	70064531	-	-	-	2	WASHER, plain
9	70085627	2	-	-	-	STRAP, latching, front
	70910319	4	-	-	-	CAPSCREW, 1/2"NF x 1"
	70904208	4	-	-	-	LOCKWASHER, 1/2"
	70911043	4	-	-	-	NUT, 1/2"NF
10	70085624	2	-	-	-	STRAP, latching, rear
	70910319	4	-	-	-	CAPSCREW, 1/2"NF x 1"
	70904208	4	-	-	-	LOCKWASHER, 1/2"
	70911043	4	-	-	-	NUT, 1/2"NF

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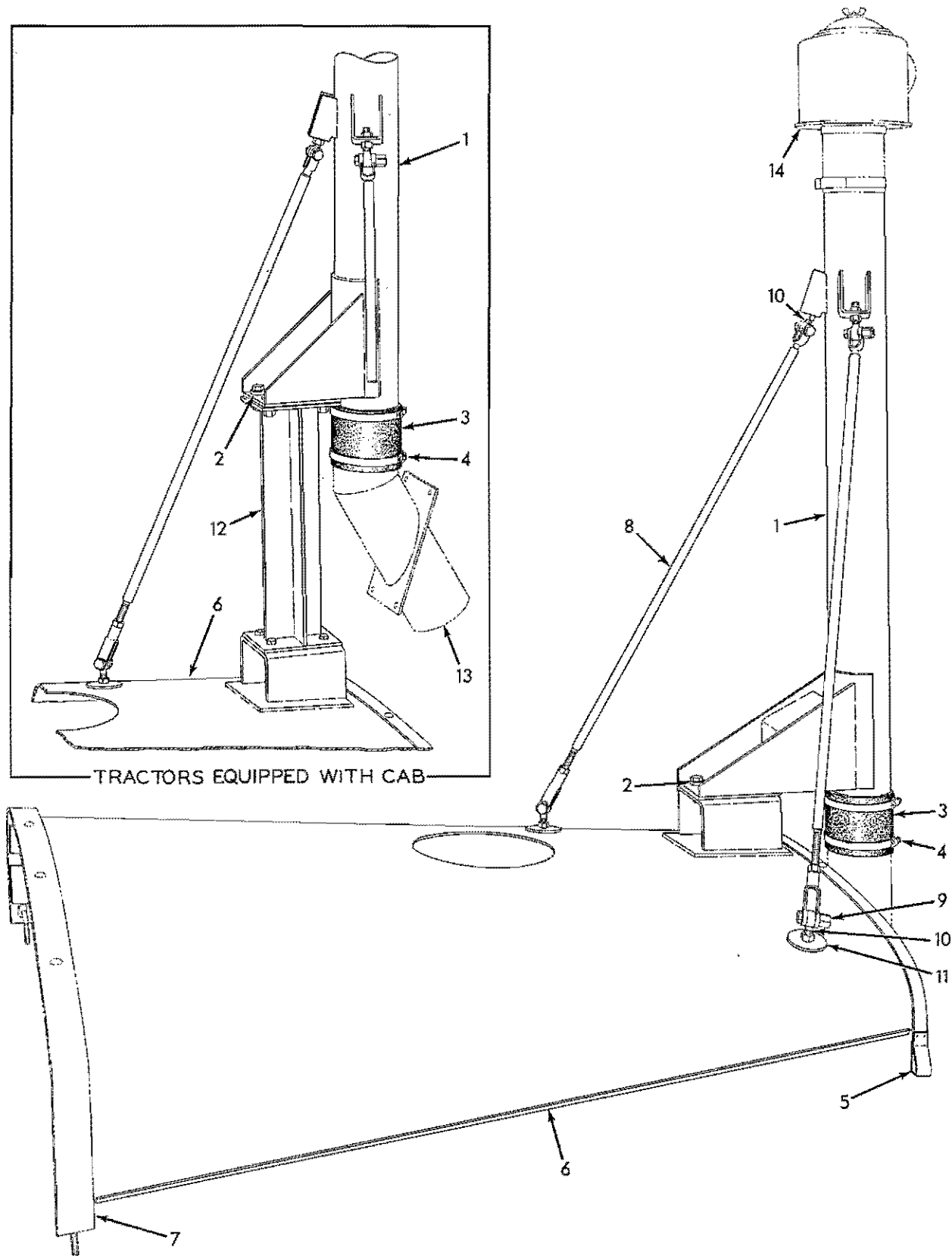
HOOD SIDE PLATES (Continued)

ITEM	PART NO.	QUANTITY				DESCRIPTION
		*	**	Δ	ΔΔ	
11	70091805	-	4	4	-	BRACKET, latching
12	70035018	-	8	8	-	CAPSCREW, 1/2"NF x 1-1/2"
13	70064531	-	8	8	-	WASHER, plain
	70904208	-	8	8	-	LOCKWASHER, 1/2"
	70911043	-	8	8	-	NUT, 1/2"NF
14	70091790	-	2	2	-	STRAP, latching
15	70035018	-	4	4	-	CAPSCREW, 1/2"NF x 1-1/2"
16	70064531	-	4	4	-	WASHER, plain
	70904208	-	4	4	-	LOCKWASHER, 1/2"
	70911043	-	4	4	-	NUT, 1/2"NF
17	70033060	4	6	6	2	FASTENER
	70900764	12	18	18	6	RIVET, fl-hd., 3/16" x 1/2"
18	70032834	4	4	4	4	HANDLE, lifting
	70900764	8	8	8	8	RIVET, fl-hd., 3/16" x 1/2"

MEMO



TRACTORS EQUIPPED WITH CAB



AIR PRE-CLEANER EXTENSION

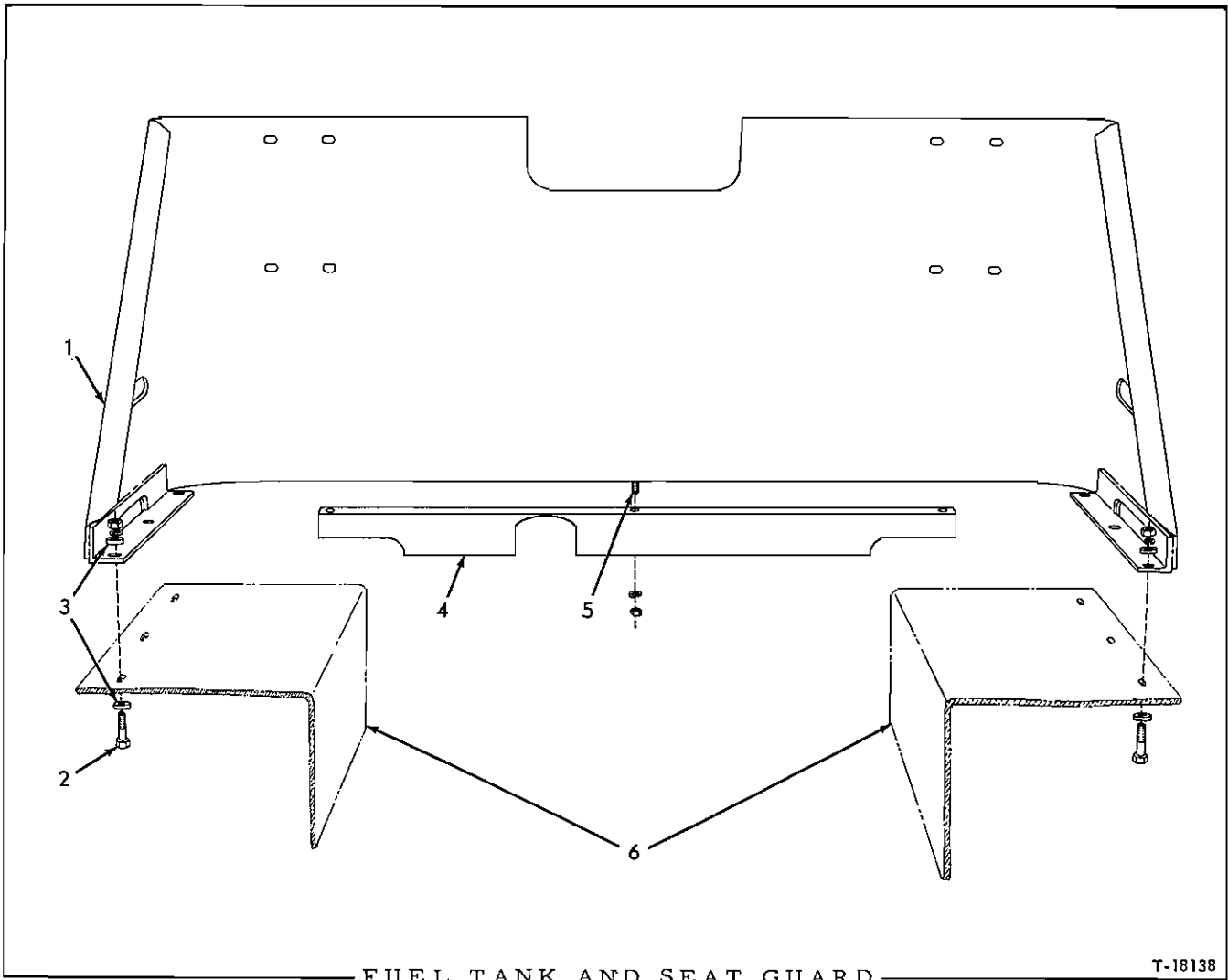
T-18077

AIR PRE-CLEANER EXTENSION

USAGE: Special Equipment. Applicable to Models HD16A, AC, D, DC

* Tractors not equipped with cab
 ** Tractors equipped with cab

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70084150	1	-	TUBE, extension
	70092847	-	1	TUBE, extension
2	70911978	4	4	CAPSCREW, 1/2"NF x 1-1/2"
	70064531	4	4	WASHER, plain
	70904208	4	4	LOCKWASHER, 1/2"
	70911043	4	4	NUT, 1/2"NF
3	70074335	1	1	HOSE, extension tube
4	70921919	2	2	CLAMP, hose, 4-5/8" to 7-1/4" diam.
5	70074399	1	1	STRAP, hold-down, rear (Replaces standard STRAP 70059532)
6	70084220	1	1	HOOD, engine (Replaces standard HOOD 70093140 on tractors prior to #4001)
	70097680	1	1	HOOD, engine (Replaces standard HOOD 70097492 on tractors #4001 and up)
7	-----	1	1	STRAP, hold-down, front (See HOOD)
8	70084227	2	2	ROD, extension tube bracing
	70911043	2	2	NUT, 1/2"NF
	70917666	2	2	YOKE, rod end, adjustable, 1/2"NF
	70912192	4	4	CAPSCREW, 1/2"NF x 1-3/4"
9	70038234	4	4	NUT, high, 1/2"NF
10	70067902	4	4	BOLT, eye
	70911043	8	8	NUT, 1/2"NF
11	70085453	4	4	WASHER, hood reinforcing
12	70092902	-	1	BRACKET, supporting, extension tube
	70911978	-	4	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	-	4	LOCKWASHER, 1/2"
	70911043	-	4	NUT, 1/2"NF
13	-----	-	1	EXTENSION, air cleaner (See CAB)
14	-----	1	1	PRE-CLEANER ASSEMBLY (See AIR CLEANER)



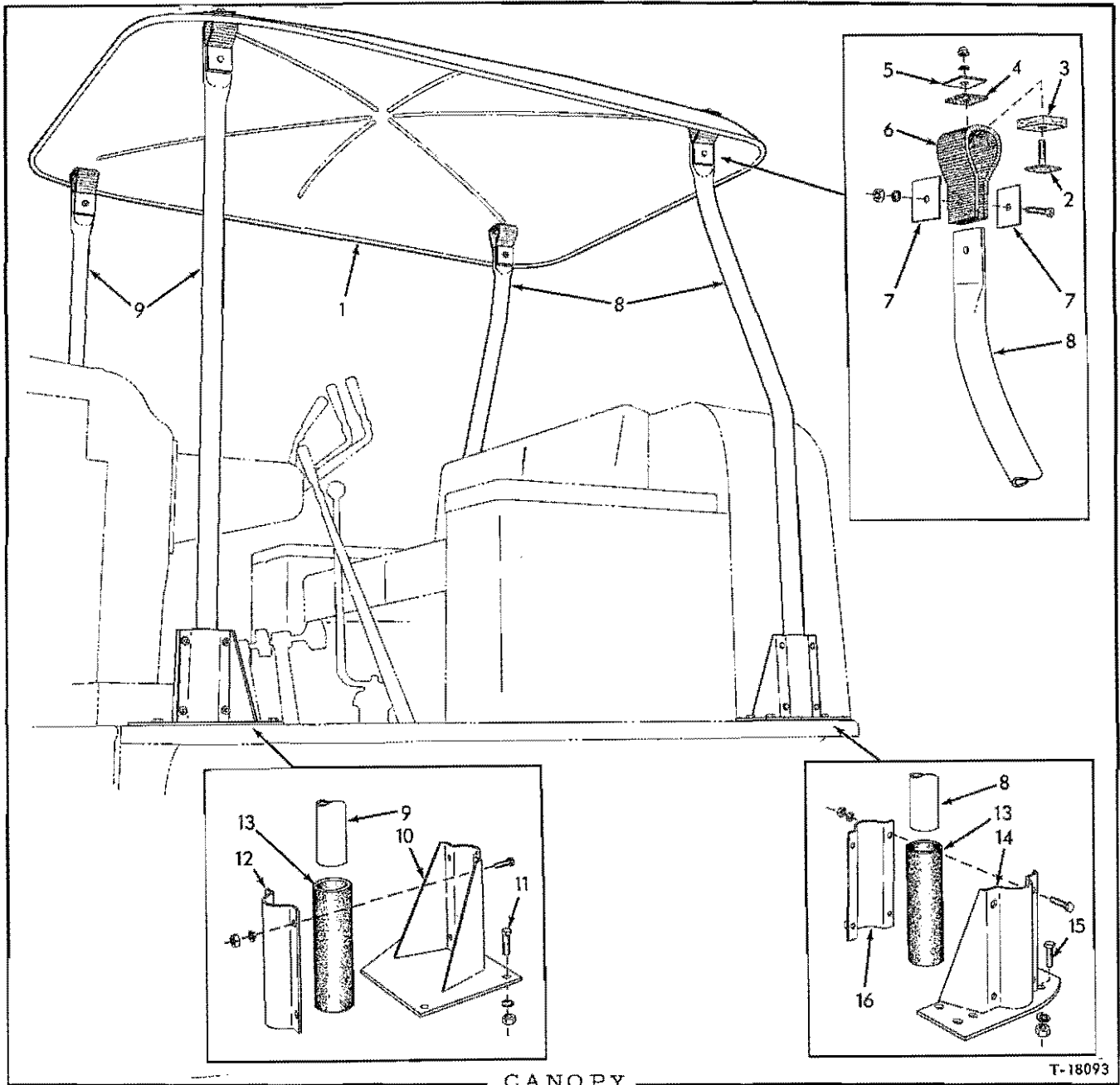
FUEL TANK AND SEAT GUARD

T-18138

USAGE: Special equipment. Applicable to Models HD16A, AC, D, DC. Requires heavy fenders for installation.

ITEM	PART NO.	QTY.	DESCRIPTION
1	70060806	1	GUARD
2	70035248	6	CAPSCREW, 5/8"NF x 2-1/4"
3	70064810	12	WASHER, plain
	70904209	6	LOCKWASHER, 5/8"
	70911044	6	NUT, 5/8"NF
4	70065936	1	ANGLE, reinforcing (Used prior to approx. December 1957)
5	70023465	3	CAPSCREW, 5/8"NF x 1-3/4"
	70904209	3	LOCKWASHER, 5/8"
	70911044	3	NUT, 5/8"NF
6	-----	-	FENDER (See REAR FENDERS)

MEMO



CANOPY

T-18093

USAGE: Special equipment. Applicable to Models HD16A, AC, D, DC

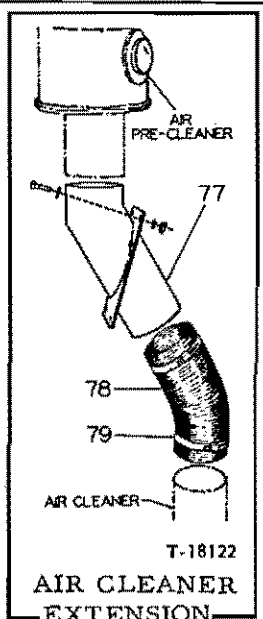
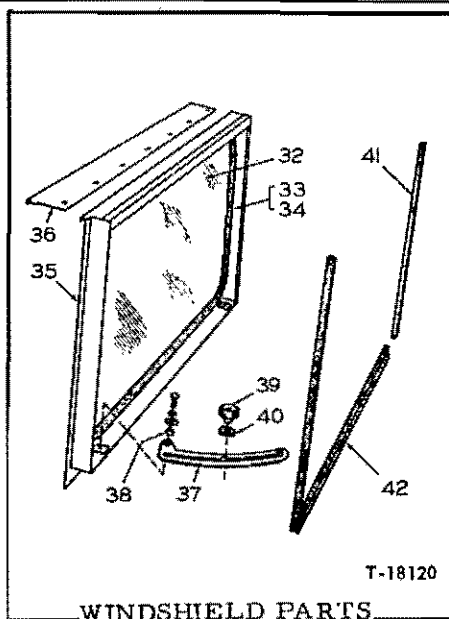
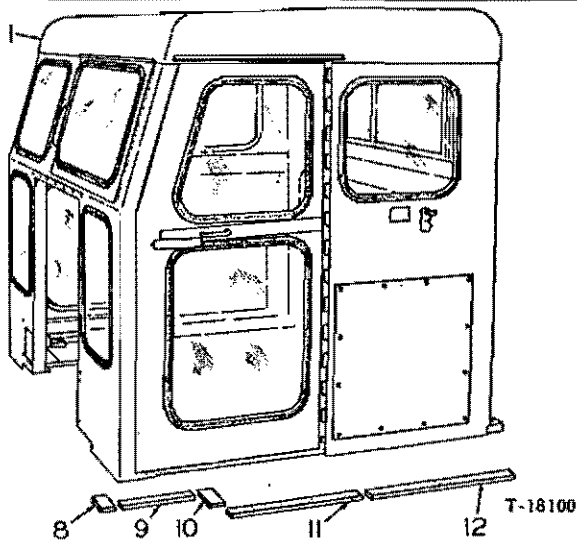
ITEM	PART NO.	QTY.	DESCRIPTION
1	52000	1	ΔCANOPY
2	52015	4	ΔBOLT, canopy
	70904206	4	LOCKWASHER, 3/8"
	70918471	4	NUT, cap, 3/8"NC
3	52013	4	ΔPAD, canopy bolt, lower (rubber, 1/2" thick)
4	52014	4	ΔPAD, canopy bolt, upper (rubber, 1/8" thick)
5	70088556	4	PLATE, canopy bolt upper pad

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CANOPY (Continued)

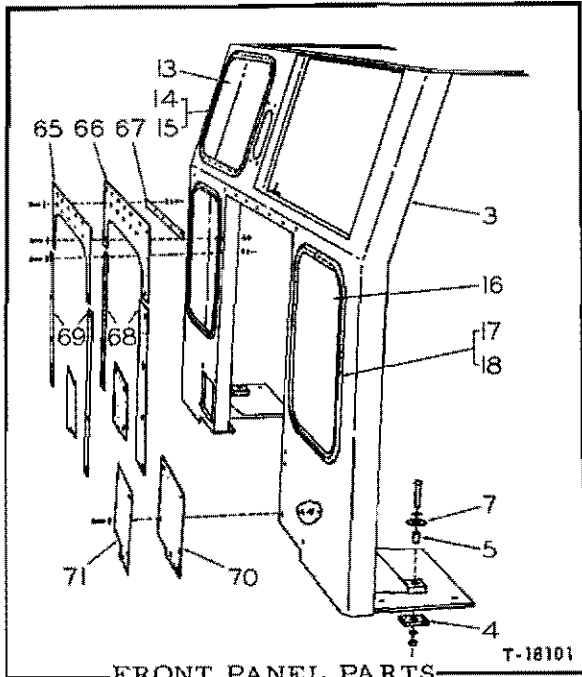
ITEM	PART NO.	QTY.	DESCRIPTION
6	52018	4	△STRAP, canopy (fibre)
	70903633	4	CAPSCREW, 3/8"NC x 1-3/4"
	70904206	4	LOCKWASHER, 3/8"
	70911026	4	NUT, 3/8"NC
7	52017	8	△WASHER, canopy strap (2-1/2" square)
8	58721	2	△POST, rear
9	58722	2	△POST, front
10	A68910L	1	△BRACKET, mounting, left front
	A68910R	1	△BRACKET, mounting, right front
11	70035733	6	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	6	LOCKWASHER, 1/2"
	70911028	6	NUT, 1/2"NC
12	52010	2	△CLAMP, front mounting bracket
	70903631	8	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	8	LOCKWASHER, 3/8"
	70911026	8	NUT, 3/8"NC
13	52012	4	△BUSHING, mounting bracket (rubber)
14	A68905L	1	△BRACKET, mounting, left rear
	A68905R	1	△BRACKET, mounting, right rear
15	70035733	8	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	8	LOCKWASHER, 1/2"
	70911028	8	NUT, 1/2"NC
16	A58701	2	△CLAMP, rear mounting bracket
	70903631	8	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	8	LOCKWASHER, 3/8"
	70911026	4	NUT, 3/8"NC

NOTE: All parts indicated by triangle (△) above must be procured thru Allen Industrial Products Inc., Menomonee Falls, Wisconsin. Vendor's part numbers are listed.

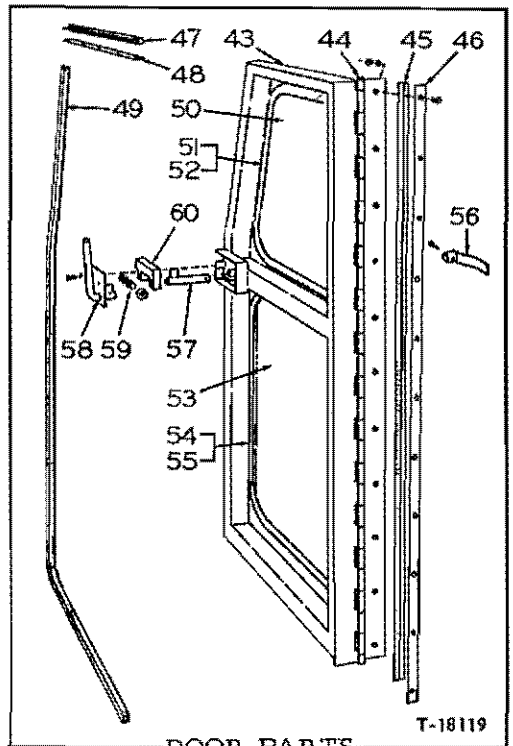


WINDSHIELD PARTS

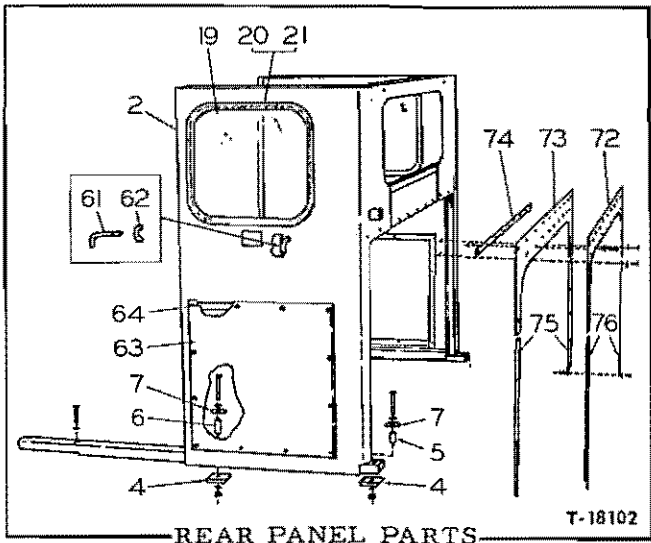
AIR CLEANER EXTENSION



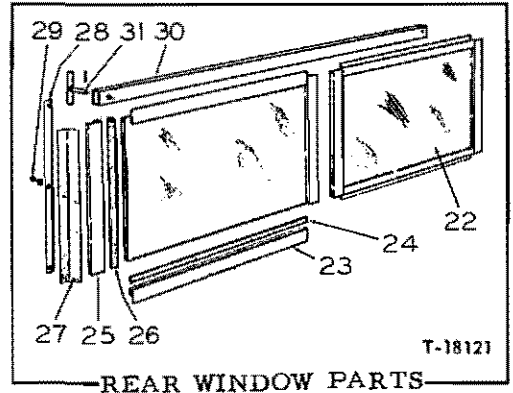
FRONT PANEL PARTS



DOOR PARTS



REAR PANEL PARTS



REAR WINDOW PARTS

CAB

USAGE: Special equipment. Applicable to Models HD16A, AC, D, DC

ITEM PART NO. QTY. DESCRIPTION

NOTE: All parts indicated by triangle (Δ) below must be procured thru Allen Industrial Products, Inc., Menomonee Falls, Wisconsin. Vendor's part numbers are listed.

1	67815	1	Δ TOP, cab
	70903630	2	CAPSCREW, 3/8"NC x 1"
	70903631	25	CAPSCREW, 3/8"NC x 1-1/4"
	70914814	4	SCREW, machine, fl-hd., 3/8"NC x 1"
	70904206	31	LOCKWASHER, 3/8"
	70911026	29	NUT, 3/8"NC
	70903773	10	CAPSCREW, 5/16"NC x 1-1/4"
	70904205	10	LOCKWASHER, 5/16"
	70911025	10	NUT, 5/16"NC
2	67830	1	Δ PANEL, cab rear section (Stripped of all removable parts)
	70905668	2	CAPSCREW, 1/2"NC x 3-1/4"
	70906700	2	CAPSCREW, 1/2"NC x 3-3/4"
	70903641	4	CAPSCREW, 1/2"NC x 2-1/4"
	70910244	4	WASHER, plain, SAE std., 1/2"
	70904208	8	LOCKWASHER, 1/2"
	70911028	4	NUT, 1/2"NC
3	67865	1	Δ PANEL, cab front section (Stripped of all removable parts)
	70905668	4	CAPSCREW, 1/2"NC x 3-1/4"
	70910244	4	WASHER, plain, SAE std., 1/2"
	70904208	8	LOCKWASHER, 1/2"
	70911028	4	NUT, 1/2"NC
4	42951	8	Δ MOUNT, shock (rubberized fabric)
5	67971	6	Δ BUSHING, shock mount spacing (1-1/2" long)
6	67972	2	Δ BUSHING, shock mount spacing (2" long)
7	42950	8	Δ WASHER, shock mount (rubberized fabric)
8	3841-4-1/2	2	Δ STRIP, sealing, cab sill (rubber, 4-1/2" long)
9	3841-10	2	Δ STRIP, sealing, cab sill (rubber, 10" long)
10	3841-6	2	Δ STRIP, sealing, cab sill (rubber, 5-1/2" long)
11	70084925	2	STRIP, sealing, cab sill (rubber, 18-1/2" long)
12	3841-23	2	Δ STRIP, sealing, cab sill (rubber, 22-3/8" long)
13	70089027	1	GLASS, front panel, upper
14	3400-79	1	SEAL, front panel upper glass
15	3401-79	1	Δ STRIP, expanding, front panel upper glass seal
16	70089432	2	GLASS, front panel, lower
17	70089020	2	SEAL, front panel lower glass
18	70089022	2	STRIP, expanding, front panel lower glass seal
19	70077471	2	GLASS, rear panel, side

(Continued)

CAB (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
20	70077977	2	SEAL, rear panel side glass
21	70077982	2	STRIP, expanding, rear panel side glass seal
22	70088980	2	GLASS, sliding, rear panel
23	67952	4	ΔCHANNEL, upper and lower, sliding glass
24	3452-23	4	ΔSEAL, sliding glass upper and lower channel (22-3/4" long)
25	3110-14	4	ΔCHANNEL, side, sliding glass
26	70088976	4	SEAL, sliding glass side channel (15-1/4" long)
27	3537-14	2	ΔSEAL, sliding glass
28	67938	2	ΔRETAINER, sliding glass seal
29	70918157	6	SCREW, truss-hd., 1/4"NC x 3/4"
	70906958	6	LOCKWASHER, int-teeth, 1/4"
30	A67935	1	ΔRETAINER, sliding glass
31	70089109	2	HANDLE, rear glass locking
	70900805	2	PIN, cotter, 1/8" x 3/4"
32	70089026	1	GLASS, windshield
33	3400-104	1	ΔSEAL, windshield glass
34	70089023	1	STRIP, expanding, windshield glass seal
35	70089025	1	FRAME, windshield (Stripped of all removable parts. Includes item 37)(Used prior to cab #11563)
	A67915	1	ΔFRAME, windshield (Stripped of all removable parts)(Effective with cab #11563)
36	A67920	1	ΔHINGE, windshield
37	67918 L	1	ΔREGULATOR, windshield, left
	67918 R	1	ΔREGULATOR, windshield, right
	70904557	2	RIVET, ctsk-hd., 3/8" x 3/4" (Used prior to cab #11563)
	70903629	2	CAPSCREW, 3/8"NC x 3/4"
	70904206	2	LOCKWASHER, 3/8"
	70900817	2	WASHER, plain, U.S. std., 3/8" } Effective with cab #11563
38	67914	2	ΔSLEEVE, windshield regulator (Effective with cab #11563)
39	67941	2	ΔKNOB, locking, windshield regulating arm
40	70084919	2	SPACER, windshield regulating arm locking knob
41	70089639	1	SEAL, windshield, right side (19-3/4" long)
42	70089024	1	SEAL, windshield, bottom and left side (60" long)

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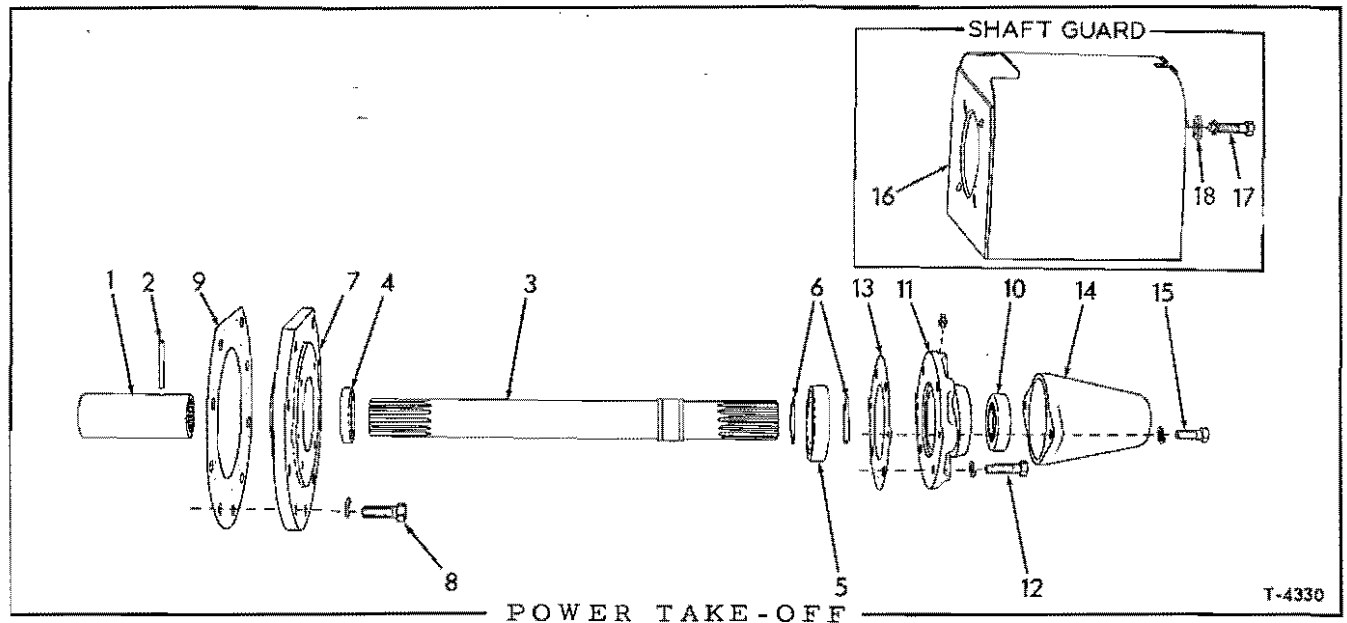
C A B (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
43	A67900L	1	ΔDOOR, left (Stripped of all removable parts. Includes item 44)
	A67900R	1	ΔDOOR, right (Stripped of all removable parts. Includes item 44)
	70903772	22	CAPSCREW, 5/16"NC x 1"
	70904205	22	LOCKWASHER, 5/16"
	70911025	22	NUT, 5/16"NC
44	67908	2	ΔHINGE, door (Requires welding to door)
45	3530-54	2	ΔSEAL, door back (54" long)
46	67927	2	ΔRETAINER, door back seal
47	70089085	2	SEAL, door top (21-1/8" long)
48	70089102	2	RETAINER, door top seal
49	3838-83	2	ΔSEAL, door bottom and front (83" long)
50	70088911	2	GLASS, door, upper
51	3400-71	2	ΔSEAL, door upper glass
52	70077767	2	STRIP, expanding, door upper glass seal
53	70077467	2	GLASS, door, lower
54	70077783	2	SEAL, door lower glass
55	70077765	2	STRIP, expanding, door lower glass seal
56	70084920	2	HANDLE, door, outside
	70912264	2	CAPSCREW, socket-hd., 5/16"NC x 1"
57	70084877	1	SHAFT, right outside door handle
	70084878	1	SHAFT, left outside door handle
58	70084875	1	HANDLE ASSEMBLY, inside, right door
	70084876	1	HANDLE ASSEMBLY, inside, left door
	70910167	4	CAPSCREW, 5/16"NF x 3/4"
	70904205	4	LOCKWASHER, 5/16"
59	70085016	2	SPRING, door latching bolt
	70911115	6	WASHER, plain, SAE std., 3/8"
60	70084879	1	BOLT, right door latching
	70084880	1	BOLT, left door latching
61	70088979	2	HOOK, door hold-back
62	70085559	2	NUT, wing, 5/8"NC
63	A-42924	2	ΔCOVER ASSEMBLY, battery access (Includes item 64)
	70903626	24	CAPSCREW, 5/16"NC x 3/4"
	70904205	24	LOCKWASHER, 5/16"

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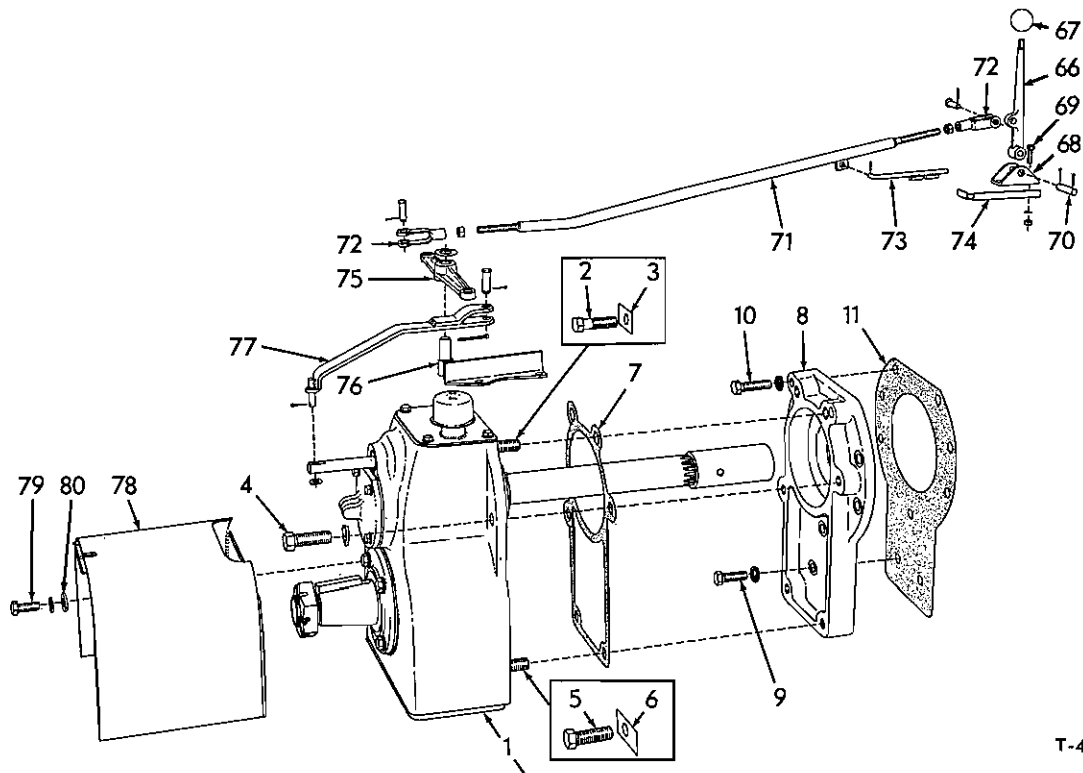
C A B (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
64	70078705	8	SEAL, battery access cover (sponge rubber, 1/8" x 1" x 21")
65	70089585	1	FILLER, front panel
	70903631	9	CAPSCREW, 3/8"NC x 1-1/4"
	70911115	9	WASHER, plain, SAE std., 3/8"
	70904206	9	LOCKWASHER, 3/8"
	70911026	9	NUT, 3/8"NC
66	70089587	1	SEAL, upper, front panel to cowl
67	70089584	1	RETAINER, front panel to cowl upper seal
	70903631	5	CAPSCREW, 3/8"NC x 1-1/4"
	70911115	10	WASHER, plain, SAE std., 3/8"
	70904206	5	LOCKWASHER, 3/8"
	70911026	5	NUT, 3/8"NC
68	67959	2	ΔSEAL, intermediate, front panel to cowl
69	67960	2	ΔRETAINER, front panel to cowl intermediate seal
	70903631	8	CAPSCREW, 3/8"NC x 1-1/4"
	70911115	8	WASHER, plain, SAE std., 3/8"
	70904206	8	LOCKWASHER, 3/8"
	70911026	8	NUT, 3/8"NC
70	67970	2	ΔSEAL, lower, front panel to cowl
71	70089108	2	PANEL, enclosure, front panel cut-out
	70903631	8	CAPSCREW, 3/8"NC x 1-1/4"
	70911115	8	WASHER, plain, SAE std., 3/8"
	70904206	8	LOCKWASHER, 3/8"
	70911026	8	NUT, 3/8"NC
72	67965	1	ΔFILLER, rear panel
	70903631	13	CAPSCREW, 3/8"NC x 1-1/4"
	70911115	13	WASHER, plain, SAE std., 3/8"
	70904206	13	LOCKWASHER, 3/8"
	70911026	13	NUT, 3/8"NC
73	67966	1	ΔSEAL, top, rear panel to fuel tank
74	70089106	1	RETAINER, rear panel to fuel tank top seal
	70903631	9	CAPSCREW, 3/8"NC x 1-1/4"
	70911115	18	WASHER, plain, SAE std., 3/8"
	70904206	9	LOCKWASHER, 3/8"
	70911026	9	NUT, 3/8"NC
75	67957	2	ΔSEAL, side, rear panel to fuel tank
76	67958	2	ΔRETAINER, rear panel to fuel tank side seal
	70903631	10	CAPSCREW, 3/8"NC x 1-1/4"
	70903630	2	CAPSCREW, 3/8"NC x 1"
	70911115	14	WASHER, plain, SAE std., 3/8"
	70904206	12	LOCKWASHER, 3/8"
	70911026	12	NUT, 3/8"NC
77	70084921	1	EXTENSION, air cleaner
	70903631	4	CAPSCREW, 3/8"NC x 1-1/4"
	70911115	4	WASHER, plain, SAE std., 3/8"
	70904206	4	LOCKWASHER, 3/8"
	70911026	4	NUT, 3/8"NC
78	3845	1	ΔTUBE, air cleaner extension (flexible)
79	3844	2	ΔCLAMP, air cleaner extension tube (3-9/16" to 4-9/16" diam.)

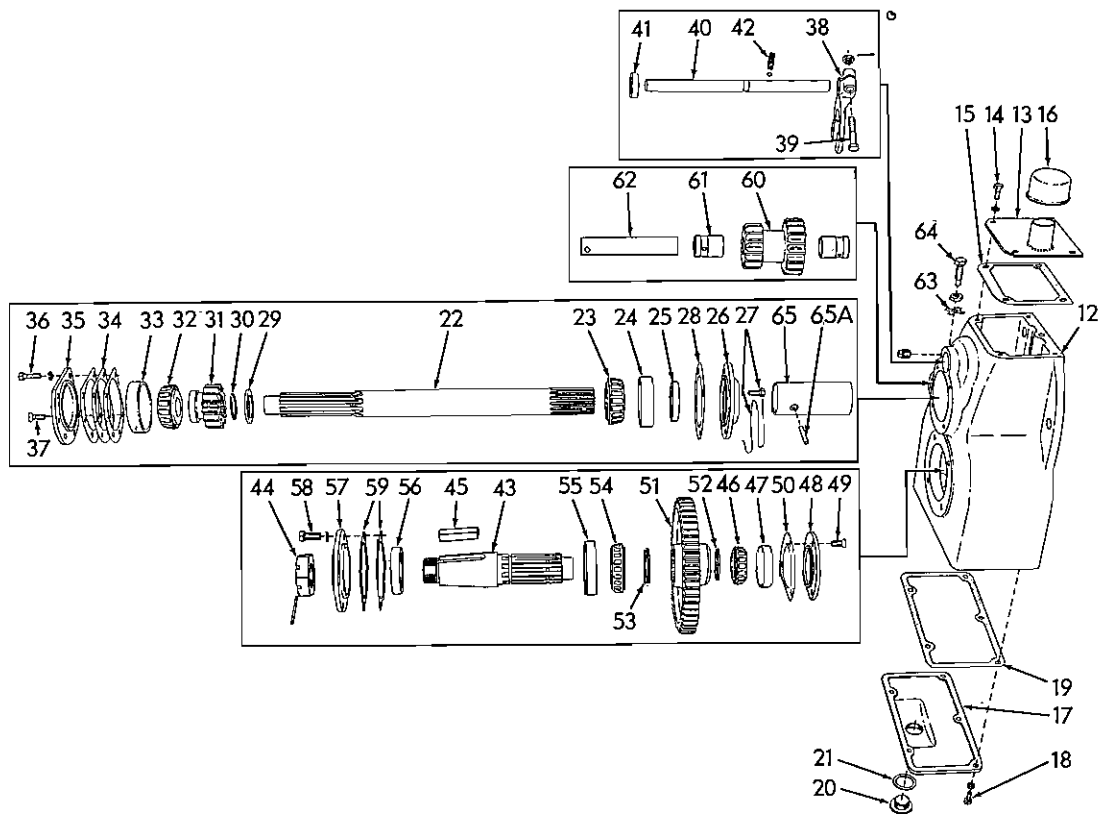


USAGE: Special equipment. Runs at engine speed. Applicable to Models HD16A, AC, D, DC

ITEM	PART NO.	QTY.	DESCRIPTION
1	70068388	1	COUPLING, front
2	70621171	1	PIN, rivet, coupling retaining
3	70068480	1	SHAFT, coupling
4	70037676	1	SEAL, oil, inner
5	70067566	1	BEARING, ball
6	70058274	2	RING, snap
7	70068488	1	CAGE, coupling shaft bearing
8	70036707	9	CAPSCREW, 5/8"NC x 1-3/4"
	70904209	9	LOCKWASHER, 5/8"
9	70068487	1	GASKET, coupling shaft bearing cage
10	70647060	1	SEAL, oil, outer
11	70068490	1	RETAINER, oil seal
	70914465	1	FITTING, lubricating, straight, 1/8"NPT
12	70035236	4	CAPSCREW, 1/2"NC x 1-3/4" (Replaced by 70921556 CAPSCREW when coupling shaft guard is used. See item 16)
	70904208	4	LOCKWASHER, 1/2"
13	70068489	1	GASKET, oil seal retainer
14	70055529	1	COVER, shaft protecting
15	70035061	2	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	2	LOCKWASHER, 1/2"
16	70078482	1	GUARD, coupling shaft (When installed, item 14 is discarded)
17	70921556	4	CAPSCREW, 1/2"NC x 2"
	70904208	4	LOCKWASHER, 1/2"
18	70064531	4	WASHER, plain



T-4339



T-4340

POWER TAKE-OFF

POWER TAKE - OFF

USAGE: Special equipment. Reversible slow-speed type. Applicable to
Models HD16A, AC, D, DC

ITEM	PART NO.	QTY.	DESCRIPTION
1	70 059860	1	TAKE-OFF ASSEMBLY, power (Consists of items 12 thru 65A)
2	70 070792	2	CAPSCREW, 3/4"NC x 2-1/2"
3	70 011100	2	LOCK, capscrew
4	70 202283	2	CAPSCREW, 3/4"NC x 2-1/4"
	70 904369	2	LOCKWASHER, 3/4"
5	70 202283	2	CAPSCREW, 3/4"NC x 2-1/4"
6	70 012238	2	LOCK, capscrew
7	70068324	1	GASKET, gear case to spacer
8	70068329	1	SPACER, power take-off
9	70036707	7	CAPSCREW, 5/8"NC x 1-3/4"
10	70023755	2	CAPSCREW, 5/8"NC x 2-1/4"
	70904209	9	LOCKWASHER, 5/8"
11	70068323	1	GASKET, spacer to steering clutch housing
12	70 044957	1	HOUSING, gear
	70 901653	1	PLUG, pipe, 3/8"NPT
13	70033391	1	COVER, top
14	70035244	4	CAPSCREW, 3/8"NC x 3/4"
	70904206	4	LOCKWASHER, 3/8"
15	70033393	1	GASKET, top cover
16	70200267	1	CAP, filler
17	70 044968	1	COVER, bottom
18	70 013058	5	CAPSCREW, 3/8"NC x 1-1/4"
	70 904206	5	LOCKWASHER, 3/8"
19	70044969	1	GASKET, bottom cover
20	70035250	1	PLUG, drain
21	70035249	1	GASKET, drain plug
22	70059869	1	SHAFT, input
23	70061087	1	CONE ASSEMBLY, input shaft front bearing
24	70061088	1	CUP, input shaft front bearing
25	70037676	1	SEAL, input shaft front bearing
26	70068326	1	RETAINER, front bearing
27	70013044	4	CAPSCREW, drilled-hd., 3/8"NC x 7/8"
	70023756	1	WIRE, locking, 1/16" x 26"
28	70032754	1	GASKET, front bearing retainer
29	70030965	1	SPACER, front bearing
30	70050293	1	RING, snap, front bearing

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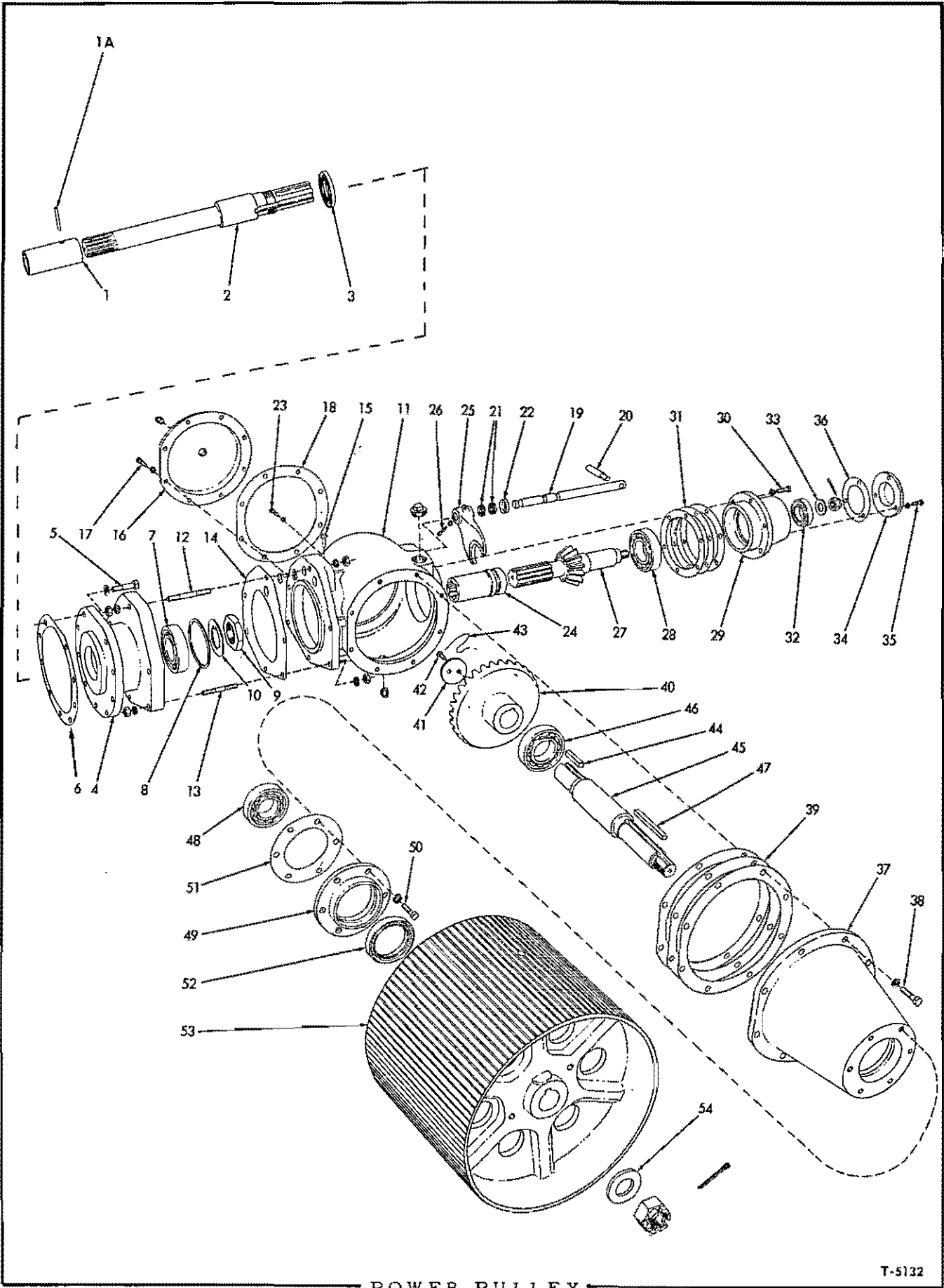
POWER TAKE-OFF (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
31	70044979	1	PINION, input shaft (14 teeth)
32	70043006	1	CONE ASSY., input shaft rear bearing
33	70211567	1	CUP, input shaft rear bearing
34	70032747	3	SHIM, input shaft bearing adjustment (.005" thick)
	70032748	5	SHIM, input shaft bearing adjustment (.010" thick. Use as req'd)
	70032749	3	SHIM, input shaft bearing adjustment (.020" thick. Use as req'd)
35	70047603	1	RETAINER, input shaft rear bearing
36	70013058	3	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	3	LOCKWASHER, 3/8"
37	70070192	1	CAPSCREW, flat-hd., 3/8"NC x 7/8"
38	70044967	1	FORK, shifting
39	70035280	1	CAPSCREW, shifting fork
	70911053	1	NUT, castle, 3/8"NF
	70900806	1	PIN, cotter, 1/8" x 1"
40	70044980	1	SHAFT, shifting fork
	70905361	1	BALL, steel, 7/16" diam.
41	70030504	1	SEAL, oil, shifting fork shaft
42	70021537	1	SPRING, shifting shaft locking ball
43	70044976	1	SHAFT, output
44	70013207	1	NUT, output shaft (slotted, 2" EF thread)
	70904007	1	PIN, cotter, 3/16" x 3"
45	70032764	1	KEY, output shaft (1/16" x 3")
46	70043000	1	CONE ASSY., output shaft front bearing
47	70211608	1	CUP, output shaft front bearing
48	70032751	1	RETAINER, output shaft front bearing
49	70036283	3	CAPSCREW, flat-hd., 1/2"NC x 1-1/8"
50	70032753	1	GASKET, bearing retainer
51	70032780	1	GEAR, output shaft (52 teeth)
52	70044978	1	RING, snap, output shaft gear
53	70032762	1	RING, output shaft rear bearing (2 matched halves)
54	70043002	1	CONE ASSY., output shaft rear bearing
55	70043001	1	CUP, output shaft rear bearing
56	70629040	1	SEAL, oil, output shaft rear bearing
57	70032752	1	RETAINER, output shaft rear bearing
58	70035061	4	CAPSCREW, 1/2"NC x 1-1/4" (Replaced by 70035236 CAPSCREW when power shaft guard is used. See item 79)
	70904208	4	LOCKWASHER, 1/2"
59	70032946	12	SHIM, rear bearing adjustment (.005" thick. Use as req'd)
	70032944	3	SHIM, rear bearing adjustment (.020" thick. Use as req'd)
60	70044982	1	GEAR ASSY., reverse (Includes item 61)
61	70044984	2	BUSHING, reverse gear
62	70044970	1	SHAFT, reverse gear
63	70035196	1	LOCK, setscrew
64	70035188	1	SETSCREW, hex-hd., taper pt., 1/2"NC x 1-5/8"
	70911035	1	NUT, jam, 1/2"NC

(Continued)

POWER TAKE-OFF (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
65	70068388	1	COUPLING, splined
65A	70621171	1	PIN, rivet, coupling retaining
66	70059868	1	LEVER, operating
67	70091862	1	KNOB, operating lever
68	70059871	1	BRACKET, operating lever
69	70012992	2	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	2	LOCKWASHER, 3/8"
	70911041	2	NUT, 3/8"NF
70	70058407	1	PIN, pivot, operating lever
	70910967	2	PIN, cotter, 1/8" x 7/8"
71	70083784	1	ROD, control
	70911043	2	NUT, 1/2"NF
72	70068389	2	YOKE, control rod
	70917648	2	PIN, yoke, 1/2" diam.
	70910967	2	PIN, cotter, 1/8" x 7/8"
73	70083785	1	LOCK, latching, operating lever
	70900942	1	PIN, cotter, 3/32" x 5/8"
74	70083786	1	PLATE, latching lock
75	70059872	1	LEVER, control, intermediate
76	70059857	1	BRACKET, pivot, intermediate control lever
	70910320	1	PIN, cotter, 5/32" x 1-1/2"
	70910255	1	WASHER, plain, SAE std., 3/4"
77	70059861	1	ARM, shifting
	70900942	1	PIN, cotter, 3/32" x 5/8"
	70911115	1	WASHER, plain, SAE std., 3/8"
	70917648	1	PIN, yoke, 1/2" diam.
	70910967	1	PIN, cotter, 1/8" x 7/8"
78	70078482	1	GUARD, power shaft
79	70035236	4	CAPSCREW, 1/2"NC x 1-3/4"
	70904208	4	LOCKWASHER, 1/2"
80	70064531	4	WASHER, plain



POWER PULLEY

T-5132

POWER PULLEY

USAGE: Special equipment. Applicable to Models HD16A, AC, D, DC

ITEM	PART NO.	QTY.	DESCRIPTION
1	70068388	1	COUPLING, front
1A	70621171	1	PIN, rivet, coupling retaining
2	70075865	1	SHAFT, input
3	70053670	1	SEAL, oil, input shaft
4	70058058	1	SPACER
5	70023755	9	CAPSCREW, 5/8"NC x 2-1/4"
	70904209	9	LOCKWASHER, 5/8"
6	70052976	1	GASKET, spacer to transmission case
7	73021048	1	BEARING, ball, input shaft
8	70048704	1	RING, snap, input shaft bearing
9	70070176	1	NUT, bearing retaining
10	70070114	1	WASHER, locking, bearing retaining nut
11	70071229	1	CASE, gear
	70910006	1	PLUG, expansion, 1-1/4"
	70912726	1	PLUG, pipe, sq-hd., 3/4"NPT
	70912770	1	PLUG, pipe, sq-hd., 1-1/2"NPT
12	70058052	1	STUD, 5/8"NF x 5-1/8"
13	70058053	5	STUD, 5/8"NF x 4-1/8"
	70904209	12	LOCKWASHER, 5/8"
	70911044	12	NUT, 5/8"NF
14	70058054	1	GASKET, case to spacer
15	70051447	1	BREATHER ASSEMBLY, gear case (Serviced only as a unit)
16	70071218	1	COVER, gear case, side
17	70035236	8	CAPSCREW, 1/2"NC x 1-3/4"
	70904208	8	LOCKWASHER, 1/2"
	70912726	1	PLUG, pipe, sq-hd., 3/4"NPT
18	70071219	1	GASKET, gear case side cover
19	70071213	1	SHAFT, shifting fork
20	70021711	1	HANDLE, shifting fork shaft
21	70034674	2	PACKING, shifting fork shaft
22	70035405	1	RETAINER, shaft packing
23	70013059	1	CAPSCREW, retaining, shifting fork shaft (3/8"NC x 2")
	70904206	1	LOCKWASHER, 3/8"
24	70041882	1	SLEEVE, coupling
25	70071217	1	FORK, sleeve shifting
26	70013059	1	CAPSCREW, 3/8"NC x 2"
	70904206	1	LOCKWASHER, 3/8"

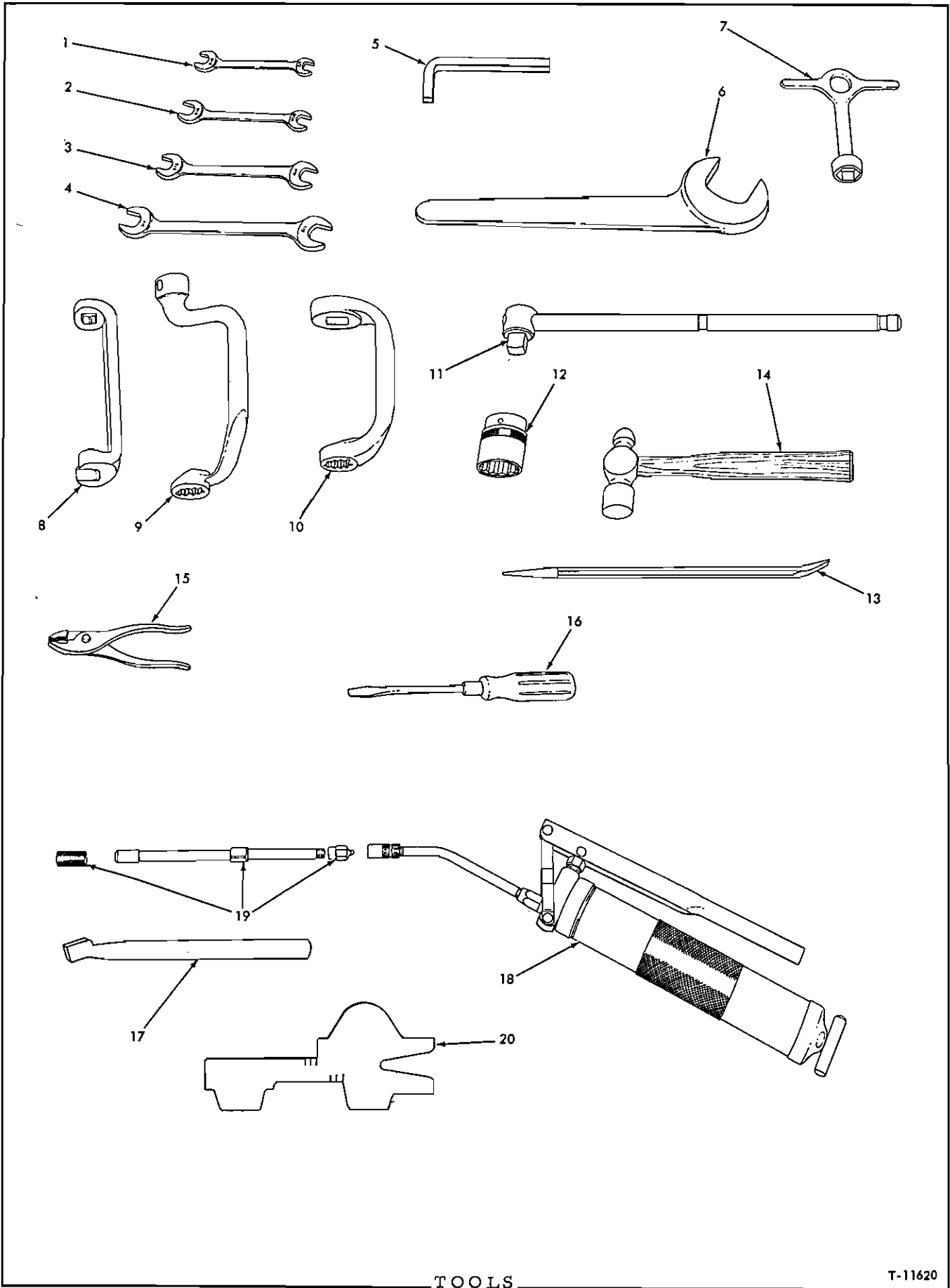
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POWER PULLEY (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
27	70041881	1	PINION AND SHAFT
28	70042890	1	BEARING, ball, pinion shaft, front
29	70071220	1	HOUSING, pinion shaft bearings
30	70035236	6	CAPSCREW, 1/2" NC x 1-3/4"
	70904208	6	LOCKWASHER, 1/2"
31	70071452	25	SHIM, pinion mesh adjustment (.005" thick) (Use as required)
32	70042847	1	BEARING, ball, pinion shaft, rear
33	70071210	1	WASHER, retaining, pinion shaft rear bearing
	70911057	1	NUT, castle, 1" NF
	70904002	1	PIN, cotter, 1/8" x 2"
34	70071205	1	CAP, pinion shaft bearing housing
35	70035061	3	CAPSCREW, 1/2" NC x 1-1/4"
	70904208	3	LOCKWASHER, 1/2"
36	70071206	1	GASKET, bearing housing cap
37	70071228	1	HOUSING, pulley shaft bearings
38	70035236	8	CAPSCREW, 1/2" NC x 1-3/4"
	70904208	8	LOCKWASHER, 1/2"
39	70071225	3	SHIM, gear mesh adjustment (.005" thick)
	70071226	3	SHIM, gear mesh adjustment (.010" thick)
	70071227	4	SHIM, gear mesh adjustment (.020" thick)
40	70041883	1	GEAR, bevel, pulley shaft (30 teeth)
41	70071212	1	WASHER, bevel gear retaining
42	70011259	2	CAPSCREW, drilled-hd., 1/2" NC x 1"
43	70023633	1	WIRE, locking, 1/16" x 12"
44	70071211	1	KEY, pulley shaft bevel gear
45	70071221	1	SHAFT, pulley
46	70638620	1	BEARING, ball, pulley shaft, inner
47	70071215	1	KEY, belt pulley
48	70204751	1	BEARING, ball, pulley shaft, outer
49	70034696	1	RETAINER, pulley shaft outer bearing
50	70035061	6	CAPSCREW, 1/2" NC x 1-1/4"
	70904208	6	LOCKWASHER, 1/2"
51	70071207	1	GASKET, pulley shaft bearing retainer
52	70029563	1	SEAL, oil, pulley shaft
53	70077174	1	PULLEY, belt (18" diam.)
54	70071209	1	WASHER, belt pulley retaining
	70911058	1	NUT, castle, 1-1/2" NF
	70904006	1	PIN, cotter, 3/16" x 2-3/4"

} Use as required





TOOLS

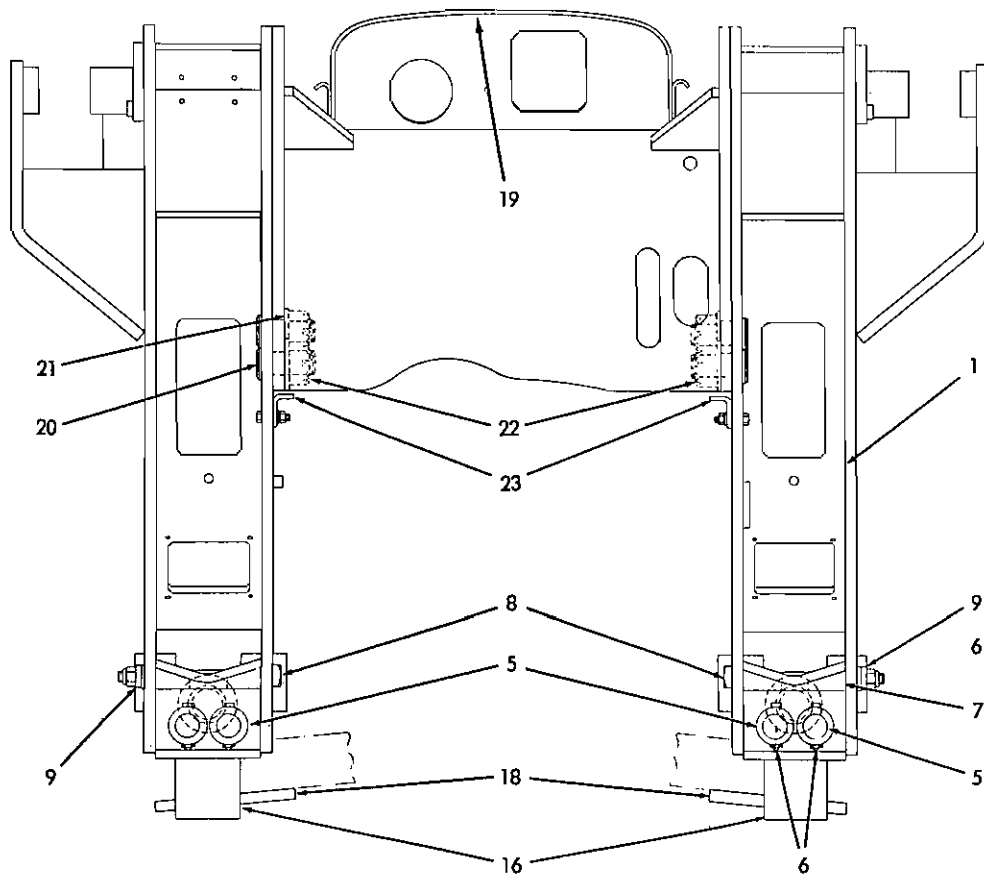
T-11620

TOOLS

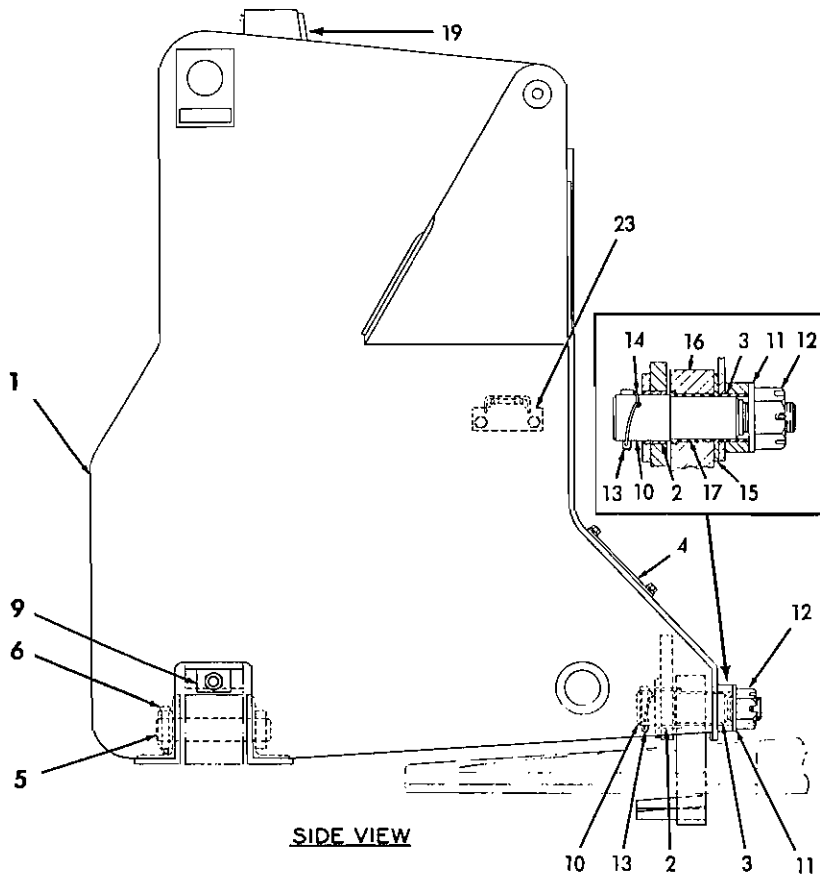
ITEM PART NO. QTY. DESCRIPTION

NOTE: For complete line of service tools for the Allis-Chalmers Diesel Engines, consult Kent-Moore Organization, Inc., 1501 South Jackson Street, Jackson, Michigan.

- 70089708 1 TOOL SET (Consists of items 1 thru 6, 8, 9, 11 thru 16 and 18; also 2 PLUGS 70035250 and 2 GASKETS 70035249)(Used prior to tractor #4001)
- 70628884 1 TOOL SET (Consists of items 1 thru 6 and 10 thru 18; also 2 PLUGS 70035250, 2 GASKETS 70035249 and 1 PLUG 70912725)(Effective with tractor #4001)
- 1 70050608 1 WRENCH, open end, double head, 15°, 1/2" and 9/16"
- 2 70053423 1 WRENCH, open end, double head, 15°, 9/16" and 5/8"
- 3 70050609 1 WRENCH, open end, double head, 15°, 5/8" and 3/4"
- 4 70050610 1 WRENCH, open end, double head, 15°, 3/4" and 7/8"
- 5 70043769 1 WRENCH, drain and filling plugs (90°, 1/2" square)
- 6 { 70040736 1 WRENCH, track release adjustment (1-7/8" open end)(Early units)
- 6 { 70095120 1 WRENCH, track release adjustment (2-1/8" open end)(Late units)
- 7 70040272 1 WRENCH, lubricant hole plugs
- 8 70084285 1 WRENCH, open end, cylinder head nut
- 9 70082667 1 WRENCH, socket end, cylinder head nut
- 10 74378423 1 WRENCH, socket end, cylinder head nut
- 11 70053426 1 HANDLE, socket, sliding T, 3/4" square drive, 21-1/2" long
- 12 70915894 1 SOCKET, 3/4" square drive, 12 point, 1-1/8" hex
- 13 70052371 1 BAR, pinch, 16" long
- 14 70012387 1 HAMMER, ball peen, 1 lb.
- 15 70012389 1 PLIERS, slip joint, 6"
- 16 70036268 1 SCREWDRIVER, 9-3/4" long
- 17 70628872 1 TOOL, engine clutch adjustment (For tractors with torque converter only)
- 18 70 073735 1 GUN, grease (Serviced only as a unit)
- 70 915954 1 NIPPLE, pipe, 1/8"NPT x 3" } For lubricating engine clutch
- 70 915955 1 ELBOW, pipe, 90°, 1/8"NPT } shifter bearings on units
- 19 70058937 1 NOZZLE ASSEMBLY, low-pressure lubrication (Includes FITTING indented below)
- 70914767 1 FITTING, lubricating, straight, 1/8"NPT female
- 20 70631353 1 GAUGE, wear (Indicates maximum wear tolerances for track rails, grouser shoes, sprockets, idlers and truck wheels)



FRONT VIEW



SIDE VIEW

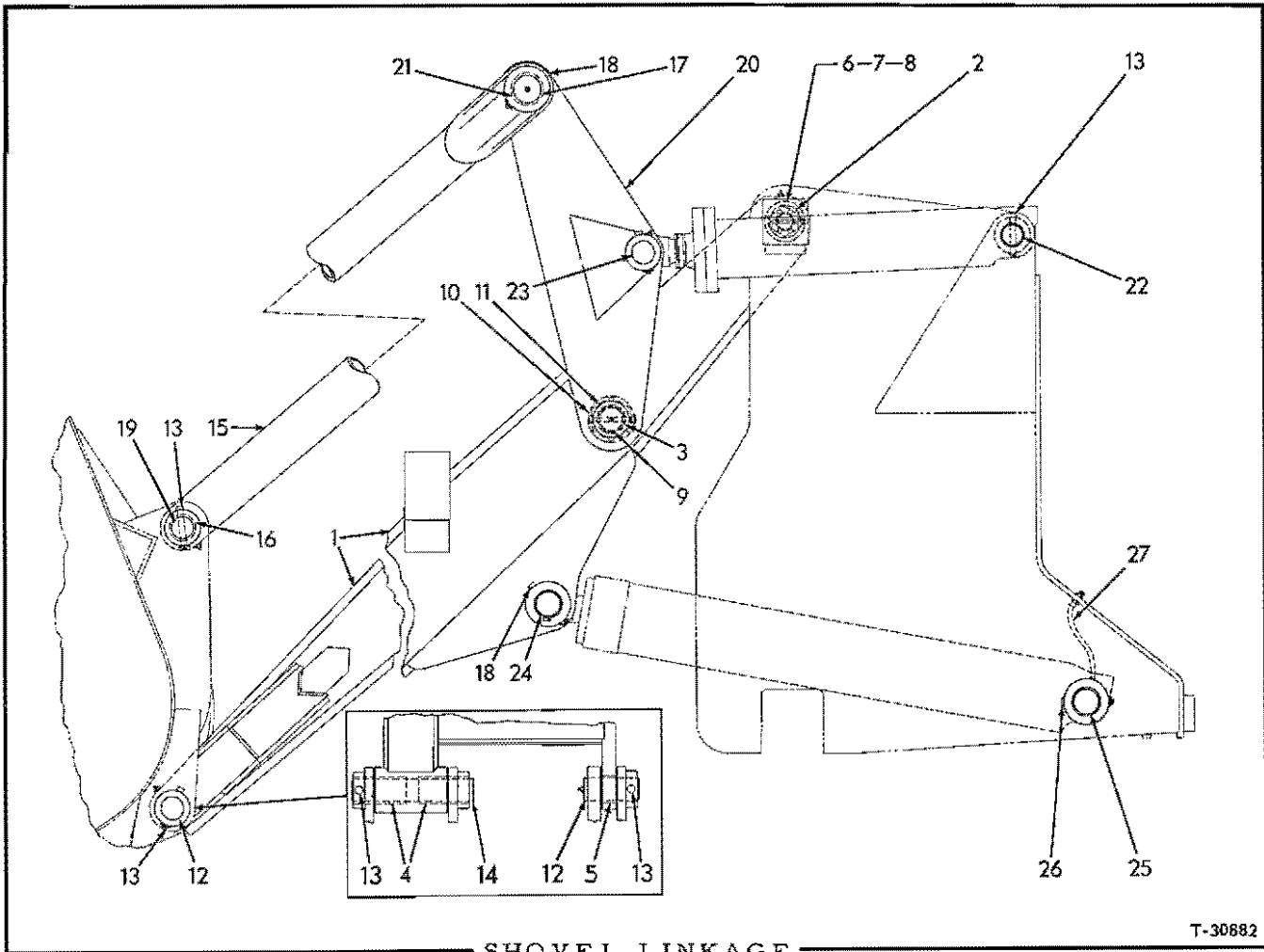
SHOVEL FRAME

T-30881

SHOVEL FRAME

ITEM	PART NO.	QTY.	DESCRIPTION
1	73016357	1	FRAME ASSEMBLY, left (Includes 1 BUSHING 73012153 and 1 BUSHING 73012154)
	73016358	1	FRAME ASSEMBLY, right (Includes 1 BUSHING 73012153 and 1 BUSHING 73012154)
2	73012154	2	BUSHING, frame pivot, front
3	73012153	2	BUSHING, frame pivot, rear
4	70626586	2	PLATE, frame cover
	70913249	8	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	8	LOCKWASHER, 1/2"
5	73016359	4	PIN, frame anchor, front
6	70626584	4	PIN, retaining, front anchor pin
	70900810	4	PIN, cotter, 3/16" x 1-1/4"
7	73016351	4	WEDGE, frame anchor pin
8	73016352	2	BOLT (1"NF diam.)
	70917777	2	NUT, elastic stop, 1"NF
9	73016354	2	BLOCK, spacing
10	73011162	2	PIN, frame anchor, rear
11	70626543	2	WASHER, plain
12	70918530	2	NUT, (2"NF)
	70904015	2	PIN, cotter, 3/8" x 3-1/2"
13	73014169	2	PIN, retaining, rear anchor pin
14	73013230	2	WIRE, locking, #14 x 14"
15	70626590	-	SHIM, rear anchor pin (1/16" thick. Use as required)
16	73013491	2	LUG ASSEMBLY, frame mounting (Requires welding to install)(Includes item 17)
17	73012155	2	BUSHING, frame lug
18	73009568	2	PLATE, mounting, frame lug (Requires welding to install)
19	73015970	1	STABILIZER, frame (Used prior to shovel #164)
	73025658	1	STABILIZER, frame (Effective with shovel #164)
20	73009094	4	PIN (2"NF)
21	70626543	4	WASHER, plain
22	70918530	4	NUT, 2"NF
	70904015	4	PIN, cotter, 3/8" x 3-1/2"
23	70626505	2	BRACKET, hose supporting
	70916420	4	CAPSCREW, 1/2"NF x 2-1/4"
	70910244	4	WASHER, plain, SAE std., 1/2"
	70904208	4	LOCKWASHER, 1/2"
	70911043	4	NUT, 1/2"NF

SHOVEL SECTION
 (MODEL HD16GC ONLY)



SHOVEL LINKAGE

T-30882

ITEM	PART NO.	QTY.	DESCRIPTION
1	73010430	1	BOOM ASSEMBLY, left (Includes 2 BUSHING 73020542, 2 BUSHING 73007914, 2 BUSHING 73004981 and 1 BUSHING 73001119)
	73010431	1	BOOM ASSEMBLY, right (Includes 2 BUSHING 73020542, 2 BUSHING 73007914, 2 BUSHING 73004981 and 1 BUSHING 73001119)
	70914465	2	FITTING, lubricating, straight, 1/8"NPT
2	73020542	4	BUSHING, boom upper end
3	73007914	4	BUSHING, boom center
4	73004981	4	BUSHING, boom lower end, inner
5	73001119	2	BUSHING, boom lower end, outer
6	73004586	2	PIN, boom pivot
	70914465	2	FITTING, lubricating, straight, 1/8"NPT
7	70626543	2	WASHER, plain
8	70918530	2	NUT, 2"NF
	70904016	2	PIN, cotter, 3/8" x 4"
9	73013293	2	PIN, cross link pivot (Requires welding to install)
	70914465	2	FITTING, lubricating, straight, 1/8"NPT

(Continued)

SHOVEL LINKAGE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
10	73009570	2	WASHER, cross link pivot pin
11	70636372	2	NUT, cross link pivot pin (jam, slotted, 2-3/4"NC)
	70916427	2	CAPSCREW, 1/2"NF x 4-3/4"
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
12	70627897	2	PIN, bucket pivot, outer
	70914465	2	FITTING, lubricating, straight, 1/8"NPT
13	73011625	8	PIN, retaining, pivot pin
	70900810	8	PIN, cotter, 3/16" x 1-1/4"
14	70627898	2	PIN, bucket pivot, inner
	70914465	2	FITTING, lubricating, straight, 1/8"NPT
15	73010412	2	LINK ASSEMBLY, dump (Each includes 2 BUSHING 70626824)
16	70626824	4	BUSHING, dump link
17	70626844	2	PIN, dump link, rear
	70914465	2	FITTING, lubricating, straight, 1/8"NPT
18	70526866	4	PIN, retaining, pivot pin
	70900810	4	PIN, cotter, 3/16" x 1-1/4"
19	70627899	2	PIN, dump link, front
	70914465	2	FITTING, lubricating, straight, 1/8"NPT
20	73007884	1	LINK ASSEMBLY, cross, left (Includes 1 BUSHING 70626637 and 1 PIN 73013293)
	73007885	1	LINK ASSEMBLY, cross, right (Includes 1 BUSHING 70626637 and 1 PIN 73013293)
21	70626637	2	BUSHING, cross link
22	73009561	2	PIN, dump cylinder pivot, rear
23	73016462	2	PIN, dump cylinder pivot, front
	70914465	2	FITTING, lubricating, straight, 1/8"NPT
24	73008017	2	PIN, lift cylinder pivot, front
	70915276	2	FITTING, lubricating, 90°, 1/8"NPT
25	70636367	2	PIN, lift cylinder pivot, rear
26	73013568	2	PIN, retaining, lift cylinder rear pin
	70900810	2	PIN, cotter, 3/16" x 1-1/4"
27	73004999	2	TUBE ASSEMBLY, lubricating (flexible)(Includes nuts)
	70915276	2	FITTING, lubricating, 90°, 1/8"NPT
	70911049	2	NUT, jam, 5/8"NF

HYDRAULIC CYLINDERS AND PIPING SYSTEM

USAGE: Shovels prior to serial No. 122

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	-	PUMP AND DRIVE (See page 638)
2	73019428	1	TUBE, suction, pump to tank, front section
3	73016486	1	ADAPTER, suction tube
	70915987	4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4	LOCKWASHER, 1/2"
4	70626534	1	GASKET, adapter
5	70626532	3	HOSE, suction tube (2-1/4" I. D. x 5')
6	70921913	12	CLAMP, hose, 1-13/16" to 2-3/4" diam.
7	73019430	1	TUBE, suction, pump to tank, rear section
8	73011931	1	ELBOW, tube flange
	70911115	4	WASHER, plain, SAE std., 3/8"
	70904206	4	LOCKWASHER, 3/8"
9	70917258	4	NUT, 3/8"NC (brass)
10	70626513	1	GASKET, tube elbow
11	73012869	1	HOSE ASSEMBLY, pressure, pump to tank (See HOSE PARTS)
12	70923578	2	O-RING, pressure hose
13	70921118	4	CLAMP, hose attaching (2 halves)
	70915987	4	CAPSCREW, 1/2"NC x 1-1/2" (Pump end)
	70913249	4	CAPSCREW, 1/2"NF x 1/1/4" (Tank end)
	70904208	8	LOCKWASHER, 1/2"
14	73011506	2	ADAPTER, hose, right cylinder
	70918493	6	CAPSCREW, 1/2"NF x 7/8"
15	73010837	6	WASHER, plain, 1/2"
16	70923664	8	O-RING, hose adapter
17	73011282	1	HOSE ASSEMBLY, lift cylinder raise, right (See HOSE PARTS)
18	73009664	1	HOSE ASSEMBLY, lift cylinder raise, left (See HOSE PARTS)
19	73010574	1	TUBE ASSEMBLY, lift cylinder raise, left (front section)(Includes nuts)(See Hydro-Pneumatic Accumulator for special tube)
20	73011338	1	TUBE ASSEMBLY, lift cylinder raise, left (rear section) (Includes nuts)
21	73013683	1	HOSE ASSEMBLY, lift cylinder drop, right (See HOSE PARTS)
22	73006854	1	HOSE ASSEMBLY, lift cylinder drop, left (See HOSE PARTS)
23	73010572	1	TUBE ASSEMBLY, lift cylinder drop, left (front section) (Includes nuts)
24	73011340	1	TUBE ASSEMBLY, lift cylinder drop, left (rear section) (Includes nuts)
25	73008136	2	CYLINDER ASSEMBLY, lift (See page 635 for parts)

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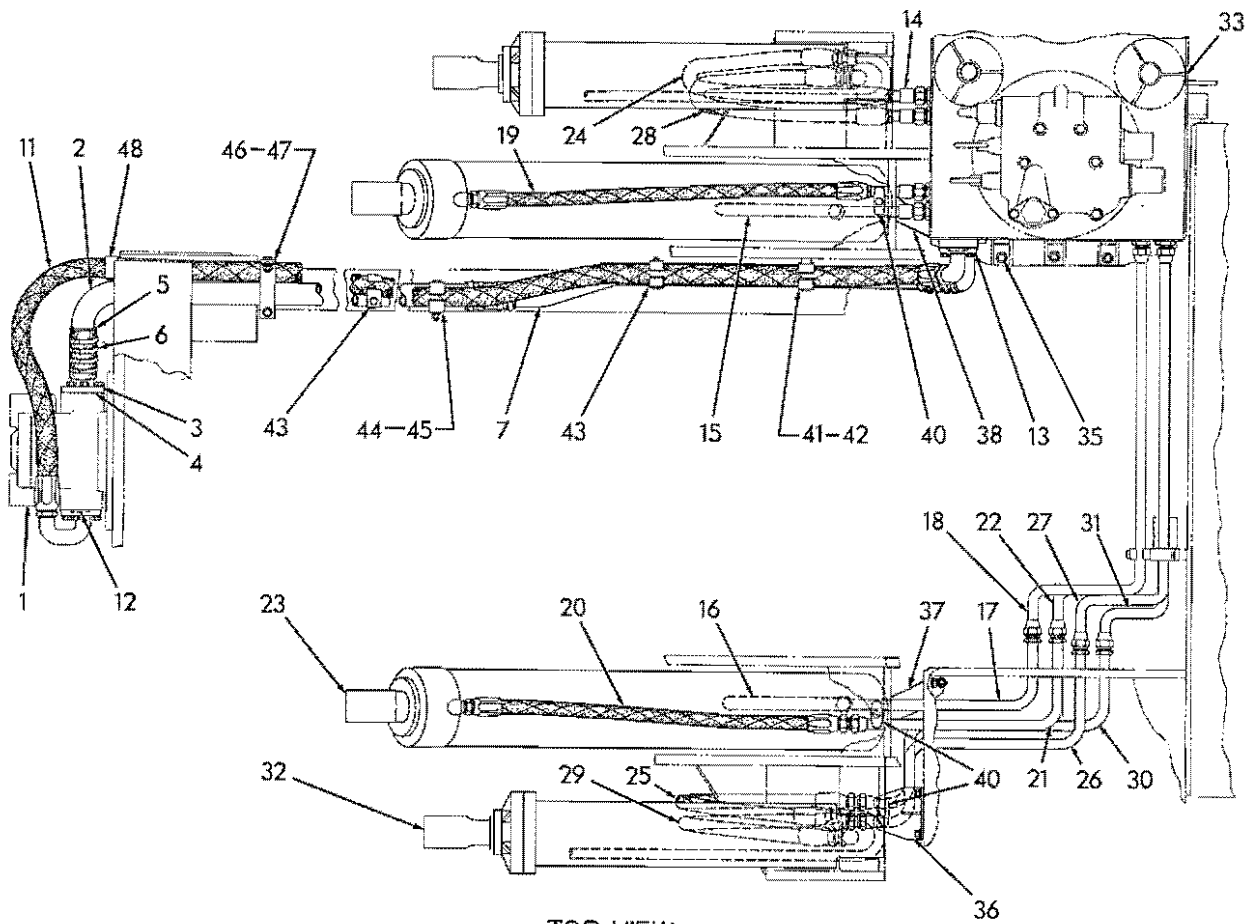
HYDRAULIC CYLINDERS AND PIPING SYSTEM (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
26	73011280	1	HOSE ASSEMBLY, dump cylinder retracting, right (See HOSE PARTS)
27	73009667	1	HOSE ASSEMBLY, dump cylinder retracting, left (See HOSE PARTS)
28	73010570	1	TUBE ASSEMBLY, dump cylinder retracting, left (front section) (Includes nuts)
29	73011342	1	TUBE ASSEMBLY, dump cylinder retracting, left (rear section) (Includes nuts)
30	73011279	1	HOSE ASSEMBLY, right cylinder dump (See HOSE PARTS)
31	73009666	1	HOSE ASSEMBLY, left cylinder dump (See HOSE PARTS)
32	73010576	1	TUBE ASSEMBLY, left cylinder dump (front section) (Includes nuts)
33	73011344	1	TUBE ASSEMBLY, left cylinder dump (rear section) (Includes nuts)
34	73016335	1	ADAPTER, hose, left cylinder
	70918493	4	CAPSCREW, 1/2"NF x 7/8"
	73010837	4	WASHER, plain, 1/2"
35	73017778	2	CYLINDER ASSEMBLY, dump (See page 637 for parts)
36	-----	1	TANK (See HYDRAULIC TANK)
	70913105	5	CAPSCREW, 1/2"NF x 1-1/2"
	70916028	1	CAPSCREW, 1/2"NF x 1-3/4"
	70915779	3	CAPSCREW, 1/2"NF x 2"
	73011243	13	WASHER, plain
	70904208	9	LOCKWASHER, 1/2"
	70911043	9	NUT, 1/2"NF
37	73011845	-	SPACER, tank capscREW (Use as required)
38	70626658	-	SPACER, tank capscREW (Use as required)
39	73013680	1	BRACKET, supporting, hose clamp
	70913105	2	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
40	73011997	1	BRACKET, supporting, hose clamp
	70913105	2	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
41	70624931	12	CLAMP, line supporting (half only)
	70916422	1	CAPSCREW, 1/2"NF x 2-3/4"
	70916424	1	CAPSCREW, 1/2"NF x 3-1/2"
	70920604	2	CAPSCREW, 1/2"NF x 5-1/4"
	70910244	1	WASHER, plain, SAE std., 1/2"
	70904208	4	LOCKWASHER, 1/2"
	70911043	4	NUT, 1/2"NF
42	73010920	1	BRACKET, supporting, hose clamp
	70916225	2	CAPSCREW, 3/8"NF x 1"
	70904206	2	LOCKWASHER, 3/8"
	70911115	2	WASHER, plain, SAE std., 3/8"

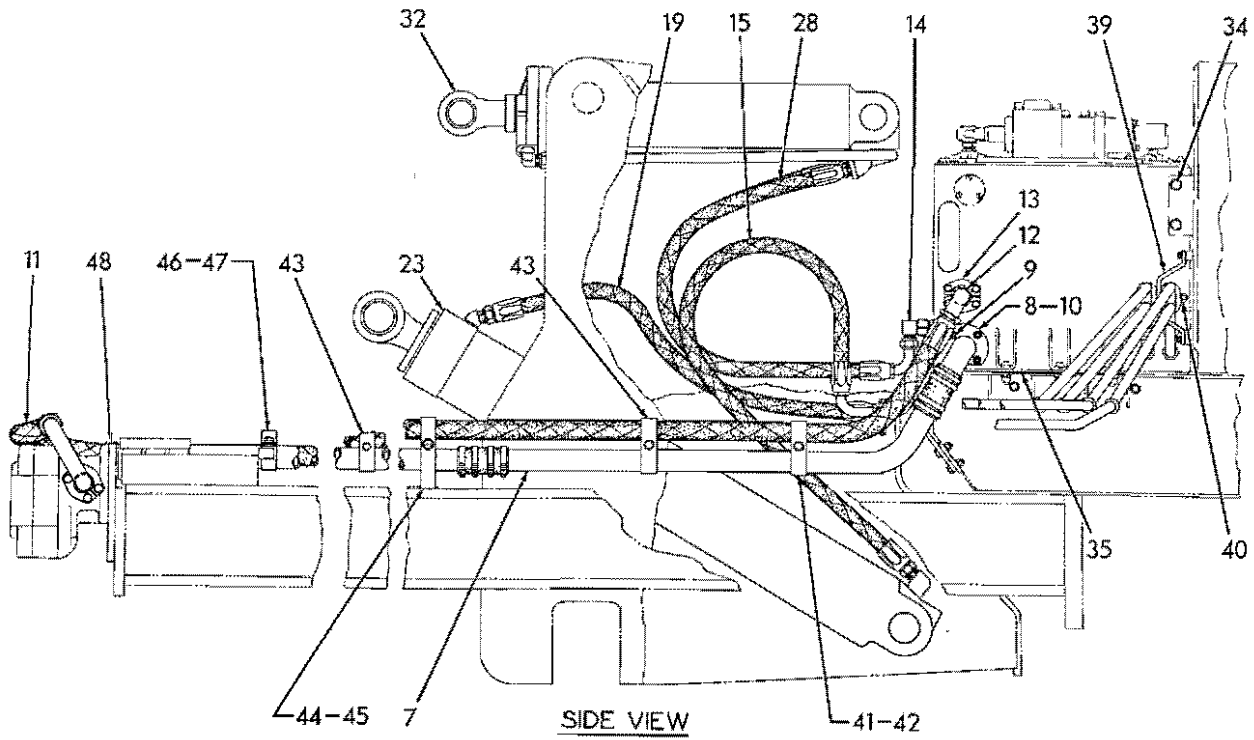
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HYDRAULIC CYLINDERS AND PIPING SYSTEM (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
43	70626528	6	CLAMP, suction and pressure line (half only)
	70916422	3	CAPSCREW, 1/2"NF x 2-3/4"
	70904208	3	LOCKWASHER, 1/2"
	70912007	-	WASHER, plain (Use as required) (For front clamps only)
44	70626529	3	SPACER, hose clamp
45	73017021	3	CLAMP, suction and pressure line (formed type)
	70914875	3	CAPSCREW, 1/2"NF x 1"
	70904208	3	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
46	73013610	2	BLOCK, supporting, hose clamp (Requires welding to install)
47	70626538	3	CLAMP, suction and pressure line (angle type)
	70914875	2	CAPSCREW, 1/2"NF x 1"
	70913249	1	CAPSCREW, 1/2"NF x 1-1/4"
	70910244	1	WASHER, plain, SAE std., 1/2"
	70904208	3	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF



TOP VIEW



SIDE VIEW

HYDRAULIC CYLINDERS AND PIPING SYSTEM (Second Type)

T-30922

HYDRAULIC CYLINDERS AND PIPING SYSTEM

USAGE: Effective with shovel serial No. 122

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	-	PUMP AND DRIVE (See pages 638 and 640)
2	73019428	1	TUBE, suction, pump to tank, front section
3	73013464	1	ADAPTER, suction tube
	70915987	4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4	LOCKWASHER, 1/2"
4	70626534	1	GASKET, adapter
5	70626532	3	HOSE, suction tube (2-1/4" I.D. x 5")
6	70921913	12	CLAMP, hose, 1-13/16" to 2-3/4" diam.
7	73019430	1	TUBE, suction, pump to tank, rear section
8	73011931	1	ELBOW, tube flange
	70911115	4	WASHER, plain, SAE std., 3/8"
	70904206	4	LOCKWASHER, 3/8"
9	70917258	4	NUT, 3/8"NC (brass)
10	70626513	1	GASKET, tube elbow
11	73012869	1	HOSE ASSEMBLY, pressure, pump to tank (See HOSE PARTS)
12	70923578	2	O-RING, pressure hose
13	70921118	4	CLAMP, hose attaching (2 halves)
	70915987	4	CAPSCREW, 1/2"NC x 1-1/2" (Pump end)
	70913249	4	CAPSCREW, 1/2"NF x 1-1/4" (Tank end)
	70904208	8	LOCKWASHER, 1/2"
14	70919625	4	ELBOW, flare type, swivel nut, 1" tube
15	73011282	1	HOSE ASSEMBLY, lift cylinder raise, right (See HOSE PARTS)
16	73009664	1	HOSE ASSEMBLY, lift cylinder raise, left (See HOSE PARTS)
17	73019417	1	TUBE ASSEMBLY, lift cylinder raise, left (front section) (Includes nuts) (See Hydro-Pneumatic Accumulator for special tube)
18	73011338	1	TUBE ASSEMBLY, lift cylinder raise, left (rear section) (Includes nuts)
19	73013683	1	HOSE ASSEMBLY, lift cylinder drop, right (See HOSE PARTS)
20	73006854	1	HOSE ASSEMBLY, lift cylinder drop, left (See HOSE PARTS)
21	73019422	1	TUBE ASSEMBLY, lift cylinder drop, left (front section) (Includes nuts)
22	73011340	1	TUBE ASSEMBLY, lift cylinder drop, left (rear section) (Includes nuts)
23	73008136	2	CYLINDER ASSEMBLY, lift (See page 635 for parts)
24	73011280	1	HOSE ASSEMBLY, dump cylinder retracting, right (See HOSE PARTS)

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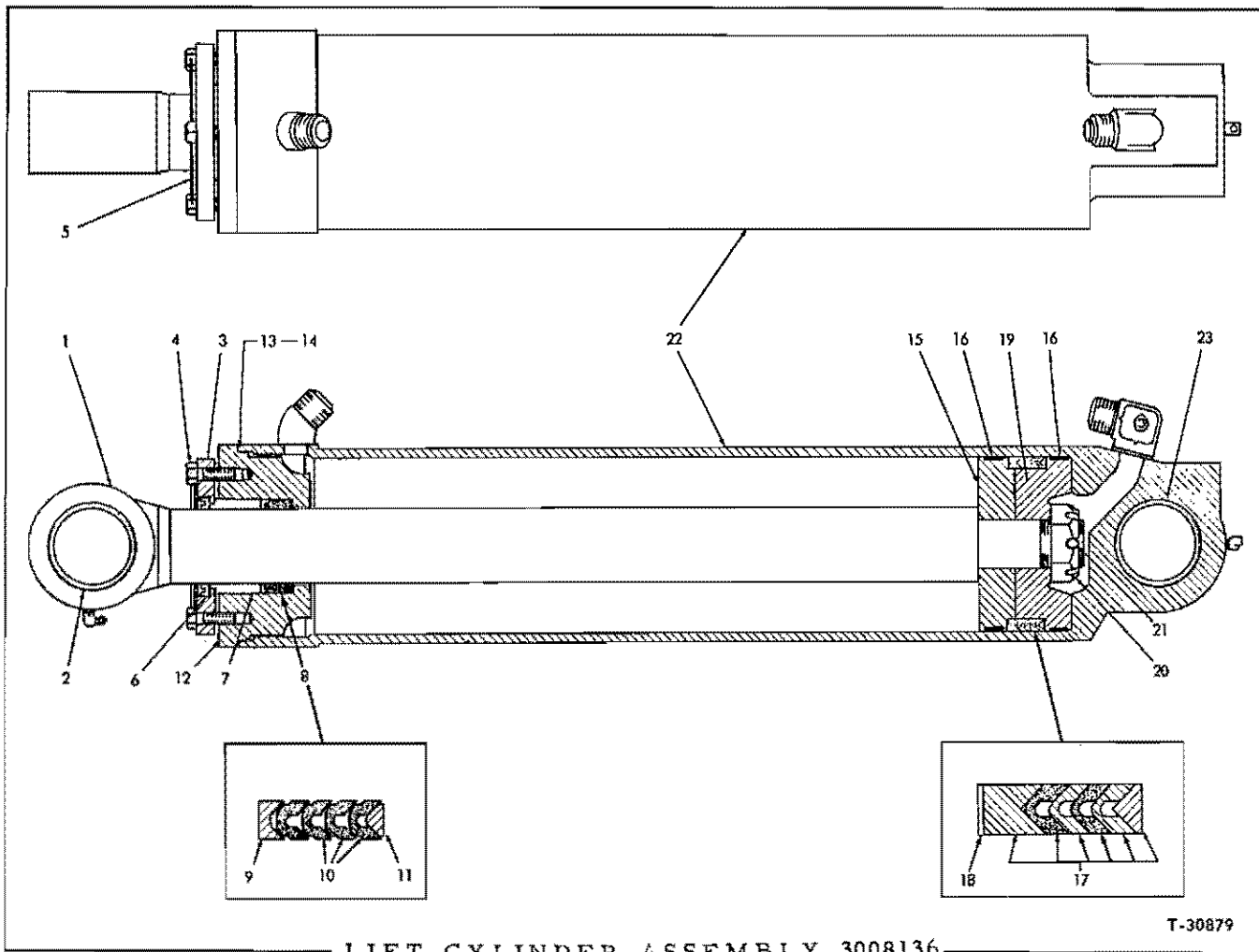
HYDRAULIC CYLINDERS AND PIPING SYSTEM (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
25	73009667	1	HOSE ASSEMBLY, dump cylinder retracting, left (See HOSE PARTS)
26	73035515	1	TUBE ASSEMBLY, dump cylinder retracting, left (front section) (Includes nuts)
	70919268	1	UNION, flare type, 1" tube
27	73011342	1	TUBE ASSEMBLY, dump cylinder retracting, left (rear section) (Includes nuts)
28	73011279	1	HOSE ASSEMBLY, right cylinder dump (See HOSE PARTS)
29	73009666	1	HOSE ASSEMBLY, left cylinder dump (See HOSE PARTS)
30	73035516	1	TUBE ASSEMBLY, left cylinder dump (front section) (Includes nuts)
	70919268	1	UNION, flare type, 1" tube
31	73011344	1	TUBE ASSEMBLY, left cylinder dump (rear section) (Includes nuts)
32	73017778	2	CYLINDER ASSEMBLY, dump (See page 637 for parts)
33	-----	1	TANK (See HYDRAULIC TANK)
	70913105	3	CAPSCREW, 1/2"NF x 1-1/2"
	70916028	1	CAPSCREW, 1/2"NF x 1-3/4"
	70915779	5	CAPSCREW, 1/2"NF x 2"
	73011243	13	WASHER, plain
	70904208	9	LOCKWASHER, 1/2"
	70911043	7	NUT, 1/2"NF
34	70626657	-	SPACER, tank capscREW (Use as required)
35	70626658	-	SPACER, tank capscREW (Use as required)
36	70626517	1	BRACKET, supporting, hose clamp
	70914875	4	CAPSCREW, 1/2"NF x 1"
	70904208	4	LOCKWASHER, 1/2"
	70910244	4	WASHER, plain, SAE std., 1/2"
37	73019419	1	BRACKET, supporting, hose clamp, left
	70913105	2	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"
38	73019418	1	BRACKET, supporting, hose clamp, right
	70913105	2	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
39	73019420	1	BRACKET, supporting, hose clamp
	70916225	2	CAPSCREW, 3/8"NF x 1"
	70904206	2	LOCKWASHER, 3/8"
	70911115	2	WASHER, plain, SAE std., 3/8"
40	70624931	10	CLAMP, line supporting (half only)
	70916423	1	CAPSCREW, 1/2"NF x 3"
	70916424	2	CAPSCREW, 1/2"NF x 3-1/2"
	70916428	1	CAPSCREW, 1/2"NF x 5"
	70910244	3	WASHER, plain, SAE std., 1/2"
	70904208	4	LOCKWASHER, 1/2"
	70911043	4	NUT, 1/2"NF

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HYDRAULIC CYLINDERS AND PIPING SYSTEM (Continued)

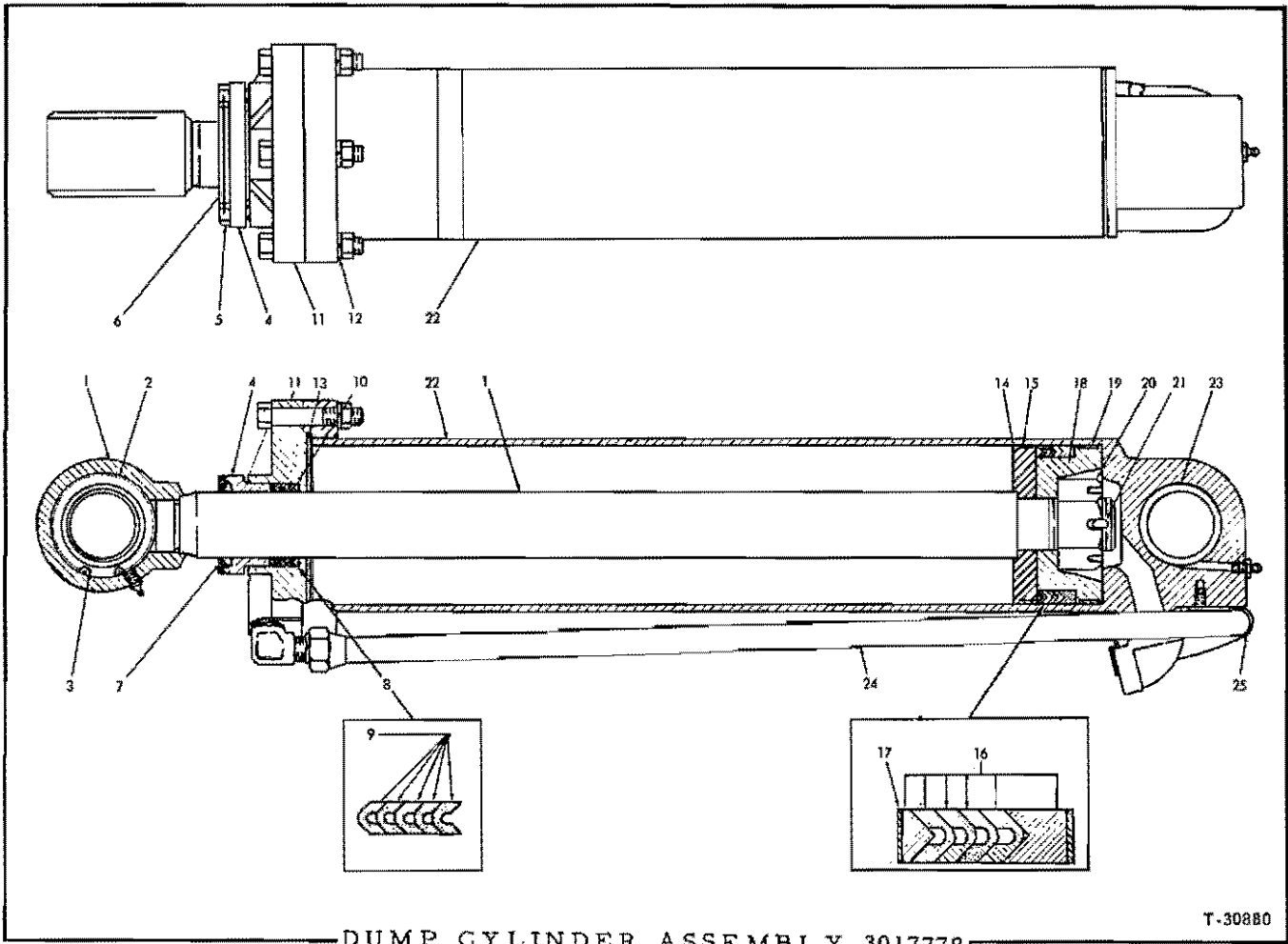
ITEM	PART NO.	QTY.	DESCRIPTION
41	70626528	2	CLAMP, suction and pressure line
	70916421	1	CAPSCREW, 1/2"NF x 2-1/2"
	70904208	1	LOCKWASHER, 1/2"
42	70626529	1	SPACER, hose clamp
43	70626528	4	CLAMP, suction and pressure line (Used prior to shovel #164)
	70916422	2	CAPSCREW, 1/2"NF x 2-3/4"
	70910244	2	WASHER, plain, SAE std., 1/2"
	70904208	2	LOCKWASHER, 1/2"
	70911043	2	NUT, 1/2"NF
	70626529	2	SPACER, clamp
43	73012545	2	CLAMP, pressure line (Effective with shovel #164)
	70916419	1	CAPSCREW, 1/2"NF x 3/4"
	70911849	1	CAPSCREW, 1/2"NF x 2"
	70904208	2	LOCKWASHER, 1/2"
	70910244	2	WASHER, plain, SAE std., 1/2"
	70911043	1	NUT, 1/2"NF
	73031984	1	SPACER, clamp
44	70626528	2	CLAMP, suction and pressure line (Used prior to shovel #164)
	70916424	1	CAPSCREW, 1/2"NF x 3-1/2"
	70910244	1	WASHER, plain, SAE std., 1/2"
	70904206	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
	70626529	1	SPACER, clamp
44	73031985	1	CLAMP, suction line (Effective with shovel #164)
	70910897	1	CAPSCREW, 1/2"NF x 1-1/4"
	70910244	2	WASHER, plain, SAE std., 1/2"
	70904206	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
45	73019571	1	BRACKET, supporting, hose clamp (Used prior to shovel #164)
	70626527	1	BRACKET, supporting, hose clamp (Effective with shovel #164)
46	70626539	1	CLAMP, suction and pressure line (formed)
	70913249	1	CAPSCREW, 1/2"NF x 1-1/4"
	70904208	1	LOCKWASHER, 1/2"
	70910244	1	WASHER, plain, SAE std., 1/2"
47	70626538	1	CLAMP, suction and pressure line (angle type)
	70913249	1	CAPSCREW, 1/2"NF x 1-1/4"
	70910244	1	WASHER, plain, SAE std., 1/2"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF
48	73012545	1	CLAMP, pressure line
	70913105	1	CAPSCREW, 1/2"NF x 1-1/2"
	70910244	1	WASHER, plain, SAE std., 1/2"
	70904208	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2"NF



LIFT CYLINDER ASSEMBLY 73008136

USAGE: See pages 627 and 631.

ITEM	PART NO.	QTY.	DESCRIPTION
<u>NOTE:</u> Quantities indicated are for one (1) cylinder only.			
1	73008154	1	ROD ASSEMBLY, piston (Includes item 2)
	70915276	1	FITTING, lubricating, 90°, 1/8"NPT
2	73008156	2	BUSHING, piston rod
3	73008140	1	PLATE, end
4	73001090	4	CAPSCREW, drilled-hd., 1/2"NC x 1-3/4"
5	73008138	1	WIRE, locking, #16 x 19"
6	73008139	1	SEAL, piston rod wiping
7	70626553	1	BEARING, rod packing
8	73008144	1	PACKING SET, piston rod (Consists of items 9 thru 11)
9	73008145	1	RING, adapter, female
10	73008146	4	RING, packing (duck)
11	73008147	1	RING, adapter, male
12	73008141	1	HEAD, cylinder
13	73012554	1	RING, back up (Also order 1 RING 70626560)
14	70924166	1	O-RING, cylinder head (Also order 1 RING 73012554)
15	73008158	1	PISTON, front
16	73008159	2	RING, piston bearing
17	73008160	1	PACKING SET, piston
18	73009228	-	SHIM, spacing (Use as required)
19	73008165	1	PISTON, rear
20	73009127	1	NUT, jam, piston rod (2"NF)
21	70911699	1	PIN, cotter, 3/8" x 3-1/4"
22	73008148	1	TUBE ASSEMBLY, cylinder (Includes item 23)
	70915399	1	ELBOW, street, brass, 90°, 1/8"NPT
23	73008174	2	BUSHING, cylinder tube
--	73013194	1	REPAIR KIT (Includes parts for one (1) cylinder only; items 4 thru 8, 13, 14, 16, 17 and 21)



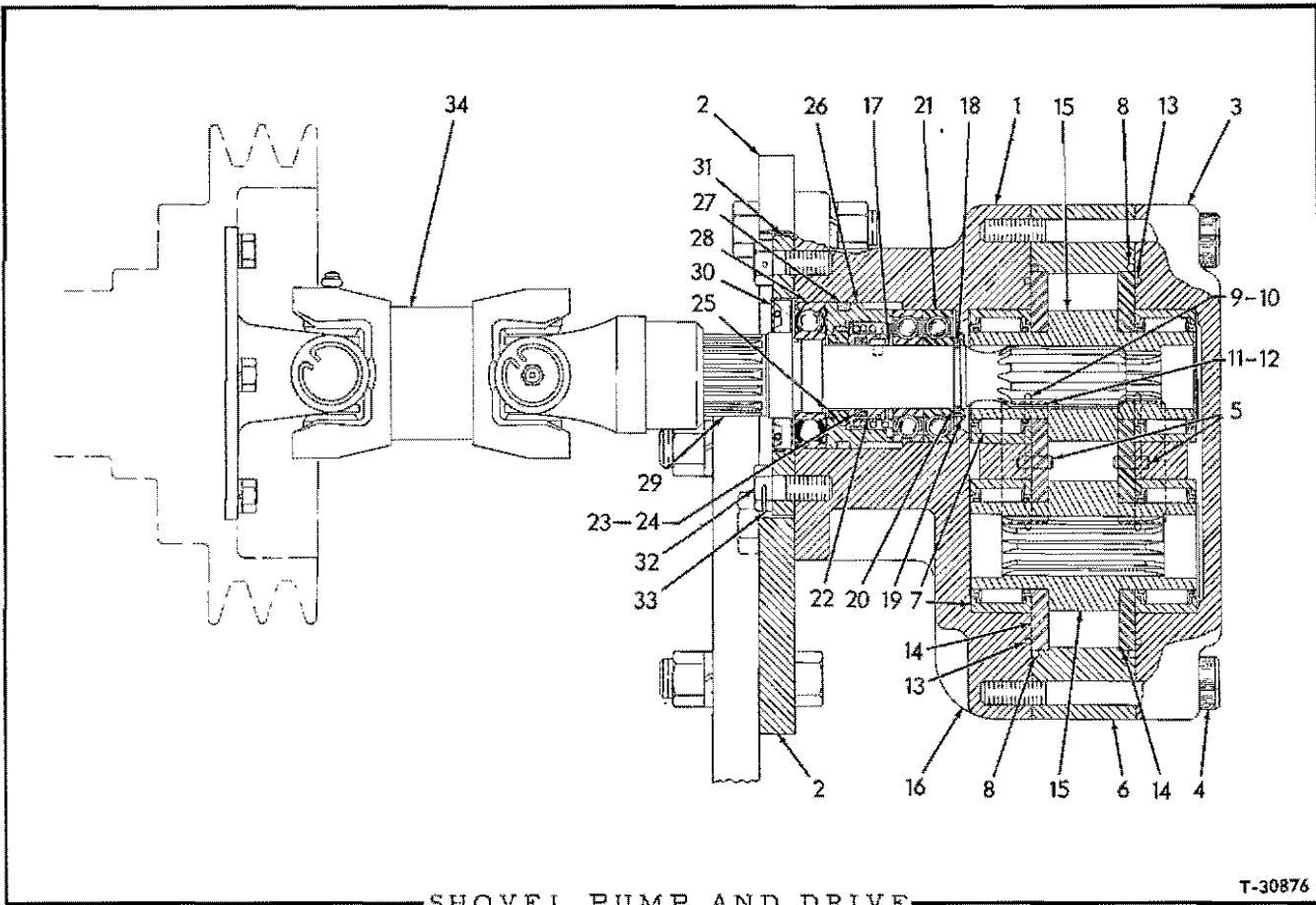
DUMP CYLINDER ASSEMBLY 3017778

T-30880

DUMP CYLINDER ASSEMBLY 73017778

USAGE: See pages 627 and 631

ITEM	PART NO.	QTY.	DESCRIPTION
<u>NOTE:</u> Quantities indicated are for one (1) Cylinder only			
1	73026236	1	ROD ASSEMBLY, piston (Includes items 2 and 3)
	70914465	1	FITTING, lubricating, straight, 1/8"NPT
2	73016458	1	BUSHING, piston rod
3	73016457	1	RING, snap
4	70625038	1	GLAND, packing
5	73001090	2	CAPSCREW, drilled-hd., 1/2"NC x 1-3/4"
6	73001085	1	WIRE, locking, #16 x 17"
7	73001538	1	SEAL, piston rod wiping
8	73001545	1	PACKING SET, piston rod (Consists of 5 RINGS 73001534)
9	73001534	5	RING, packing (duck)
10	73001532	1	RING, adapter, male
11	70625041	1	HEAD, cylinder
	70915985	6	CAPSCREW, 5/8"NF x 3-1/2"
12	70904209	6	LOCKWASHER, 5/8"
	70911044	6	NUT, 5/8"NF
13	70923596	1	O-RING, cylinder head
14	73007995	1	PISTON, front
15	73001850	1	RING, piston bearing (1/2" wide)
16	73004549	1	PACKING SET, piston
17	73007809	-	SHIM, spacing (Use as required)
18	73007996	1	PISTON, rear
19	73004878	1	RING, piston bearing (3/4" wide)
20	70918530	1	NUT, piston retaining (slotted, 2"NF)
21	70904015	1	PIN, cotter, 3/8" x 3-1/2"
22	73009270	1	TUBE ASSEMBLY, cylinder (Includes item 23)
	70914465	1	FITTING, lubricating, straight, 1/8"NPT
23	73001119	2	BUSHING, cylinder tube
24	73009508	1	TUBE ASSEMBLY, oil (Includes nuts)
	70920686	1	ELBOW, 90°, flare type, 1" tube, 1"NPT male
25	73011248	1	CLIP, tube supporting
	70915408	1	CAPSCREW, 3/8"NC x 3/4"
	70904206	1	LOCKWASHER, 3/8"
--	73013193	1	REPAIR KIT (Includes parts for one (1) cylinder only; items 4 thru 8, 10, 12, 13; 15, 16, 19 and 21)



SHOVEL PUMP AND DRIVE

T-30876

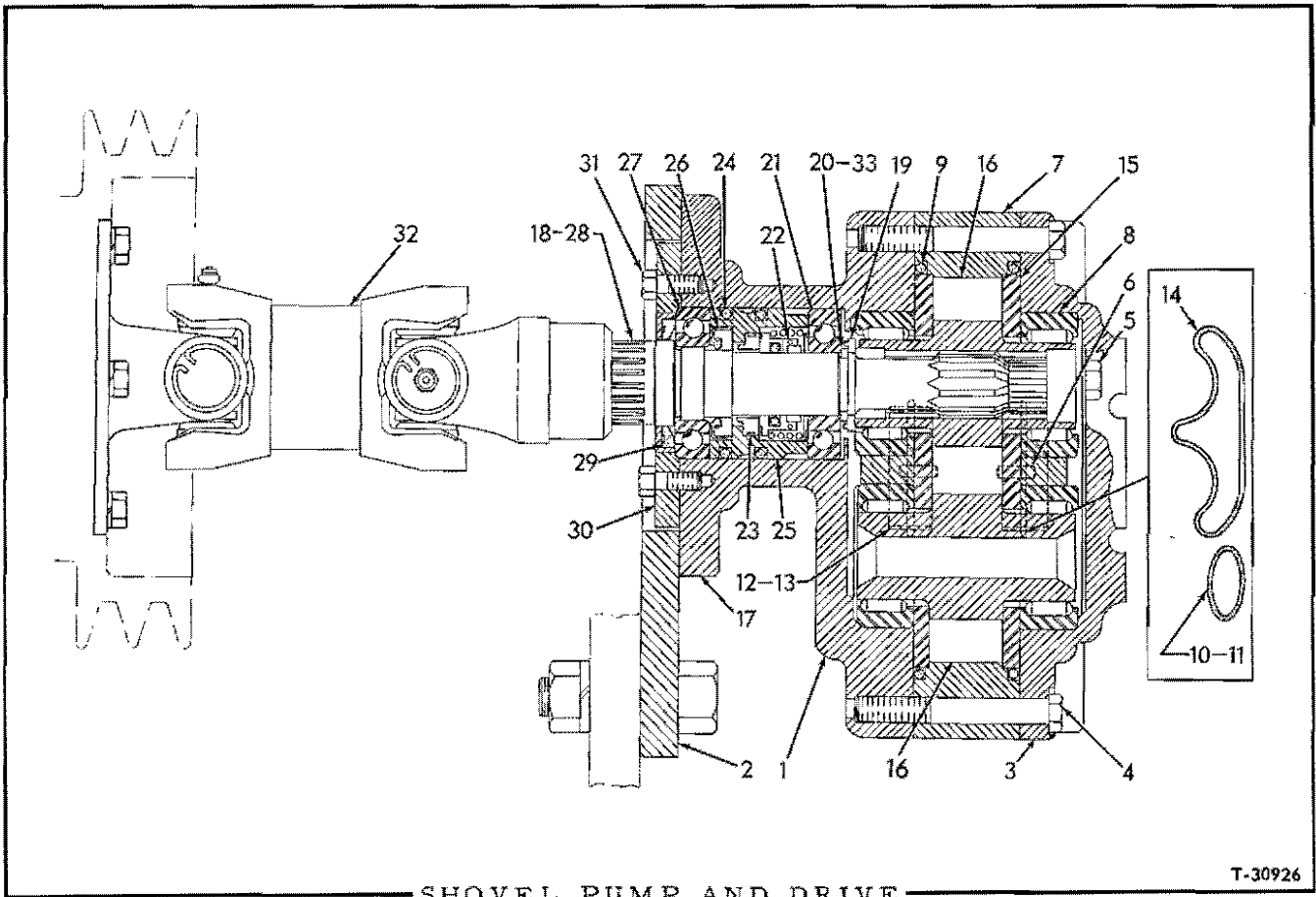
USAGE: Shovels prior to serial No. 190

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	PUMP ASSEMBLY (Includes items 3 thru 33) (Order PUMP ASSEMBLY 73028864)
	70916333	4	CAPSCREW, 3/4"NF x 2-3/4"
	70904369	4	LOCKWASHER, 3/4"
	70911045	4	NUT, 3/4"NF
2	70626740	1	PLATE, pump mounting
	70916333	4	CAPSCREW, 3/4"NF x 2-3/4"
	70904369	4	LOCKWASHER, 3/4"
	70911045	4	NUT, 3/4"NF
3	73013788	1	COVER, pump housing
4	73013791	14	CAPSCREW, socket-hd., 1/2"NF x 4-1/4"
5	73012605	2	PIN, dowel, pump housing
6	73029708	1	HOUSING, pump
7	73029771	4	BEARING, roller
8	70923596	2	O-RING, pump housing
9	70923814	2	O-RING, pump housing, left side
10	70923581	2	O-RING, pump housing, right side

(Continued)

SHOVEL PUMP AND DRIVE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
11	73012648	2	DOWEL, pump housing, left side
12	73013790	2	DOWEL, pump housing, right side
13	73013792	4	O-RING, housing cover
14	73013787	2	PLATE, wear
15	73041566	1	GEAR SET, pump drive (Consists of 2 matching gears)
16	73013785	1	COVER, pump adapting
17	73013784	1	CARTRIDGE ASSEMBLY, drive shaft (Includes items 18 thru 33)
18	73018581	1	RING, snap, bearing retaining
19	73018585	1	WASHER, bearing retaining
20	73018582	-	SHIM, bearing adjusting (Use as required)
21	73018586	2	BEARING, ball, inner
22	73011911	1	SEAL ASSEMBLY, drive shaft (Includes items 23 and 24)
23	70923813	1	O-RING, drive shaft (Also order 1 RING 73012681)
24	73012681	1	RING, back-up (Also order 1 O-RING 70923813)
25	73011910	1	SEAT ASSEMBLY, drive shaft seal (Serviced only as a unit)
26	73018583	1	RETAINER, bearing and seal
27	70923597	1	O-RING, bearing retainer
28	73011952	1	BEARING, ball, outer
29	73018580	1	SHAFT, drive
30	70627966	1	SEAL, pump bearing
31	73013878	1	FLANGE, bearing retaining
32	73023657	8	CAPSCREW, drilled-hd., 1/2"NF x 1-1/4"
33	73012845	1	WIRE, locking, #16 x 30"
34	73015925	1	JOINT ASSEMBLY, universal (Used prior to shovel #164)(See page 643 for parts)
	73025343	1	JOINT ASSEMBLY, universal (Effective with shovel #164)(See page 643 for parts)
	70916311	6	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	6	LOCKWASHER, 1/2"



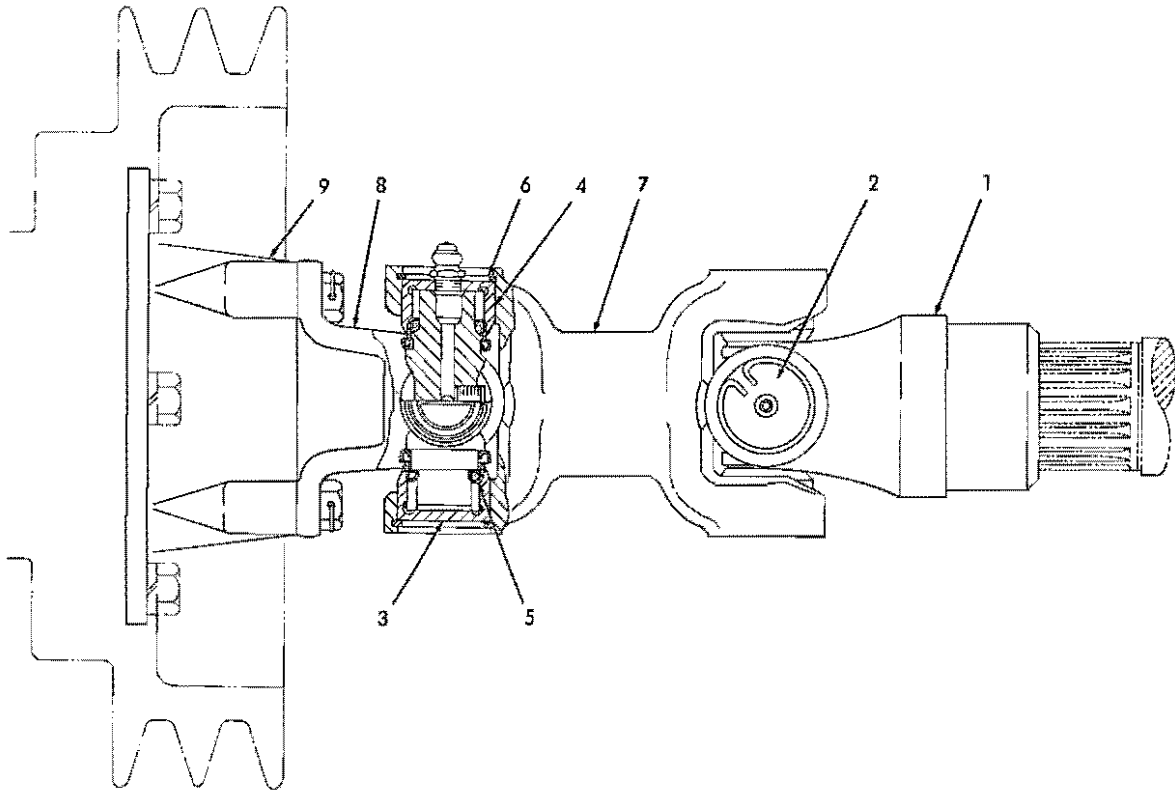
USAGE: Effective with shovel serial No. 190

ITEM	PART NO.	QTY.	DESCRIPTION
1	73028864	1	PUMP ASSEMBLY (Includes items 3 thru 31)
	70916333	4	CAPSCREW, 3/4"NF x 2-3/4"
	70904369	4	LOCKWASHER, 3/4"
	70911045	4	NUT, 3/4"NF
2	70626740	1	PLATE, pump mounting
	70916333	4	CAPSCREW, 3/4"NF x 2-3/4"
	70904369	4	LOCKWASHER, 3/4"
	70911045	4	NUT, 3/4"NF
3	73029773	1	COVER, pump housing
4	70919236	10	CAPSCREW, 1/2"NF x 4"
5	70919177	4	CAPSCREW, 1/2"NF x 4-1/2"
6	70919347	2	PIN, roll, pumphousing (1/4" x 5/8")
7	73029708	1	HOUSING, pump
8	73029771	4	BEARING, roller
9	70923596	2	O-RING, pump housing
10	70923814	2	O-RING, pump housing, left side
11	70923581	2	O-RING, pump housing, right side

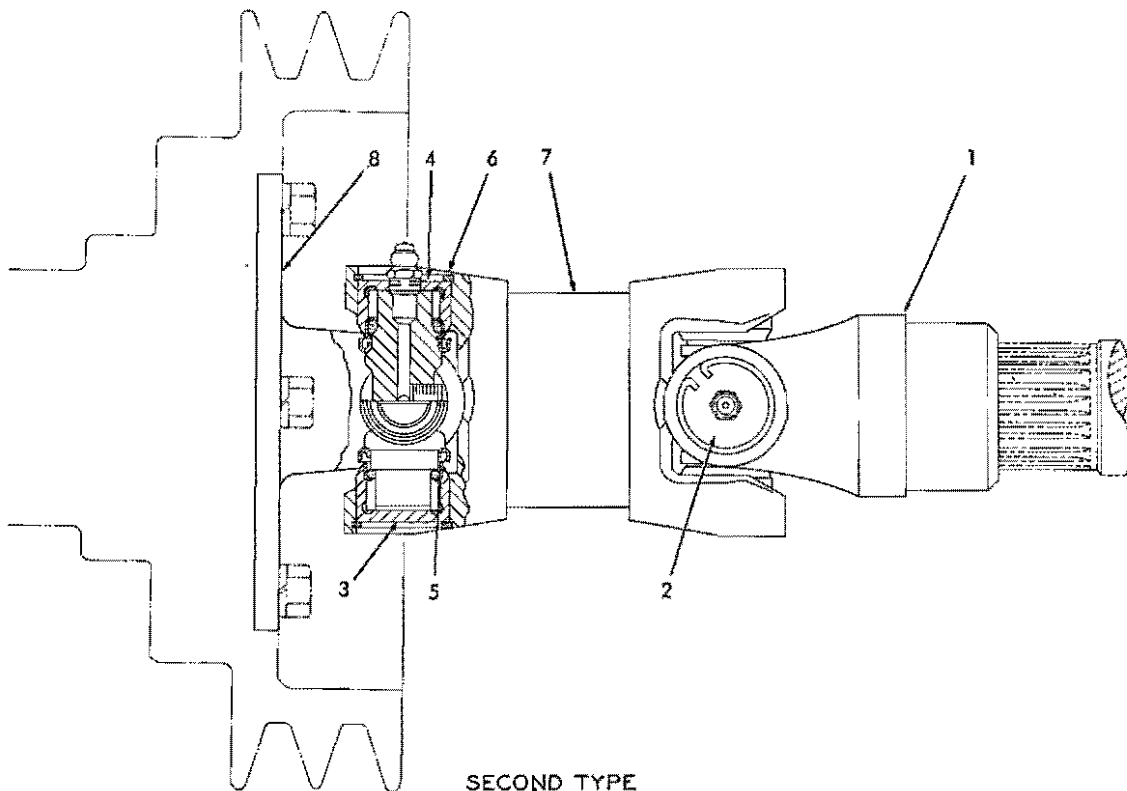
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SHOVEL PUMP AND DRIVE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
12	73012648	2	DOWEL, pump housing, left side
13	73013790	2	DOWEL, pump housing, right side
14	73004674	4	O-RING, housing cover (elongated)
15	73029714	2	PLATE, wear
16	73041566	1	GEAR SET, pump drive (Consists of 2 matching gears)
17	73029770	1	ADAPTER, pump
18	73029713	1	SHAFT ASSEMBLY, drive (Consists of items 19 thru 28)
19	73018585	1	WASHER, bearing retaining
20	73029918	1	RING, snap (.126" to .130" wide, green code)
	73029919	1	RING, snap (.134" to .138" wide, yellow code)
	73029920	1	RING, snap (.142" to .146" wide, red code)
	73029921	1	RING, snap (.150" to .154" wide, blue code)
	73029922	1	RING, snap (.158" to .162" wide, orange code)
			Select one. Also see item 33.
21	73011878	1	BEARING, ball, inner
22	73023871	1	SEAL ASSEMBLY, drive shaft (Serviced only as a unit)
23	73011910	1	SEAT ASSEMBLY, drive shaft seal (Serviced only as a unit)
24	70923597	2	O-RING, bearing retainer
25	73029777	1	RETAINER, bearing and seal
26	73029783	1	SEAL, oil, outer bearing
27	73011952	1	BEARING, ball, outer
28	73029774	1	SHAFT, drive
29	70627966	1	SEAL, oil, drive shaft
30	73029715	1	FLANGE, bearing retaining
31	73029718	6	CAPSCREW
32	73025343	1	JOINT ASSEMBLY, universal (See page 643 for parts)
	70916311	6	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	6	LOCKWASHER, 1/2"
33	73029778	1	RING SET, snap (Consists of 1 each of snap rings listed under item 20)



FIRST TYPE

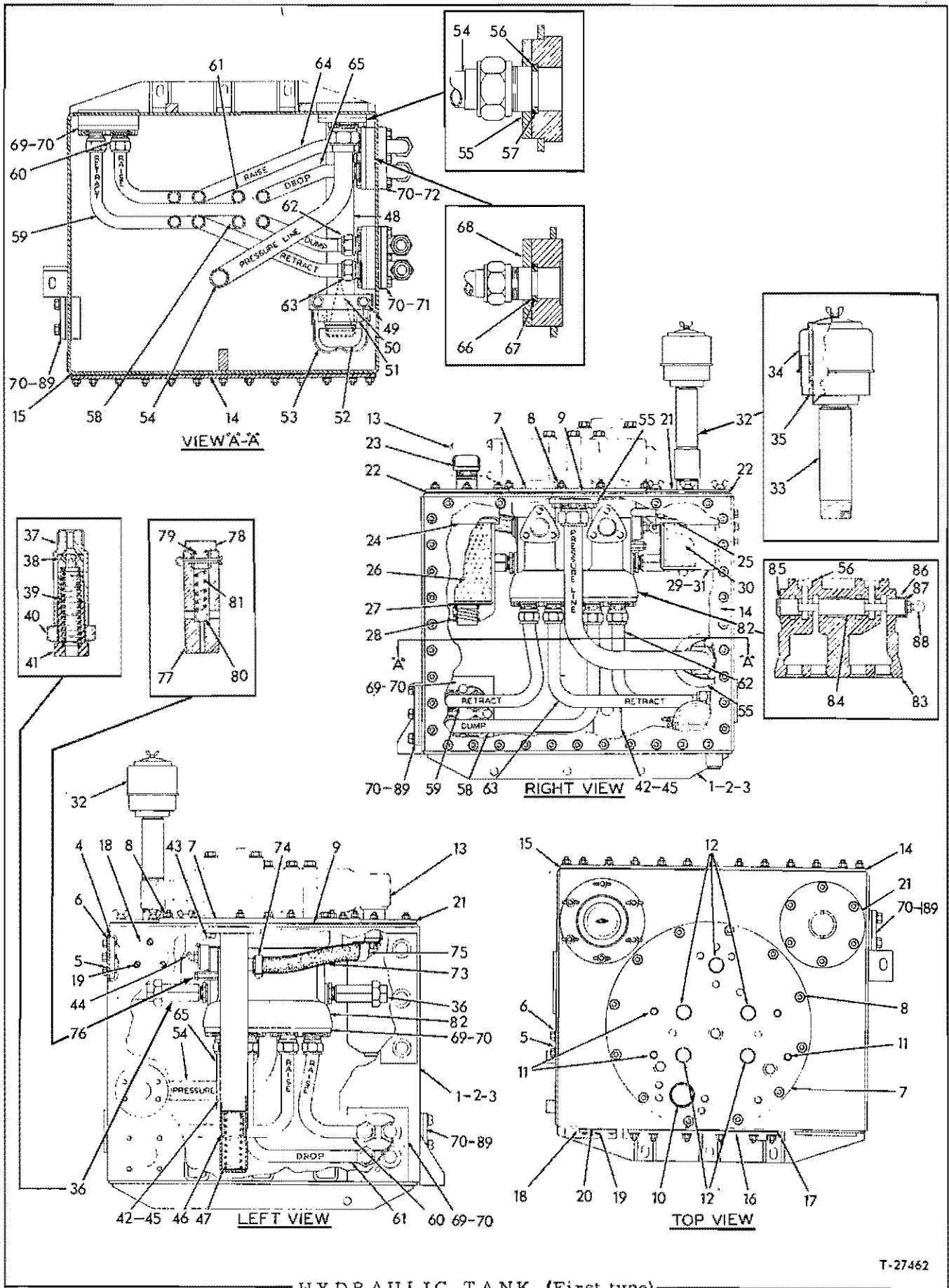


SECOND TYPE

UNIVERSAL JOINT PARTS

USAGE: See pages 638 and 640

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
				* Joint Assembly 73015925
				** Joint Assembly 73025343
1	73010729	1	1	YOKE, front (splined)
2	73011020	2	2	SPIDER ASSEMBLY (Includes PLUG and FITTING indented below and items 3 thru 6)
	70910230	2	2	PLUG, pipe, slotted-hd., 1/8"NPT
	70914465	2	2	FITTING, lubricating, straight, 1/8"NPT
3	73011022	6	6	BEARING ASSEMBLY, needle (Serviced only as a unit)
4	73011024	2	2	BEARING ASSEMBLY, needle (Has lubricating hole)(Serviced only as a unit)
5	73011023	16	16	WASHER, sealing, spider bearing
6	73011021	8	8	RING, snap, spider bearing
7	73012173	1	-	CENTER, double yoke
	73025344	-	1	CENTER, double yoke
8	73011026	1	-	YOKE, rear (flanged)
	73011027	4	-	CAPSCREW, drilled-hd., 7/16"NF x 3/4"
	73007380	2	-	WIRE, locking, #16 x 12"
	70664692	-	1	YOKE, rear (flanged)
9	73015865	1	-	FLANGE, yoke attaching



HYDRAULIC TANK (First type)

T-27462

HYDRAULIC TANK

USAGE: Shovels prior to serial No. 122

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	TANK AND VALVE ASSY., hydraulic (Consists of items 2 thru 89)(Order TANK AND VALVE ASSY. 73019317. When making initial replacement also order 2 ELBOWS 70919625)
2	-----	1	TANK ASSY., hydraulic (Consists of items 3 thru 9 and 14 thru 89)(Order TANK ASSY. 73019342. When making initial replacement also order 2 ELBOWS 70919625)
	70909091	1	PLUG, pipe, ctsk-hd., 3/4"NPT
3	73010623	1	TANK, hydraulic (Includes welded studs)
4	70626704	1	PLATE, cover (Discard when installing Power Take-Off)
	70916381	2	CAPSCREW, 3/8"NF x 3/4"
5	70625084	2	WASHER, sealing
	70920601	1	CAPSCREW, 7/16"NF x 7/8"
6	70625085	1	WASHER, sealing
7	73010597	1	PLATE, valve mounting
	70913105	3	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	3	LOCKWASHER, 1/2"
	70904206	12	LOCKWASHER, 3/8"
8	73019683	12	NUT, aluminum, 3/8"NC
9	70626702	1	GASKET, valve mounting plate
10	70923814	1	O-RING, valve mounting (large)
11	70923565	4	O-RING, valve mounting (small)
12	70923577	5	O-RING, valve mounting (medium)
13	-----	1	VALVE ASSEMBLY, control (See SHOVEL VALVE AND CONTROLS)
	70916427	2	CAPSCREW, 1/2"NF x 4-3/4"
	70920606	6	CAPSCREW, 1/2"NF x 5-3/4"
	70904208	8	LOCKWASHER, 1/2"
14	70626670	1	COVER, tank side
	70904206	35	LOCKWASHER, 3/8"
	73019683	35	NUT, aluminum, 3/8"NC
15	70626671	1	GASKET, tank side cover
16	73010921	1	COVER, valve inspection
	70904206	12	LOCKWASHER, 3/8"
	73019683	12	NUT, aluminum, 3/8"NC
17	70626677	1	GASKET, inspection cover
18	70626678	1	COVER, power take-off
	70914108	3	SCREW, machine, 1/4"NF x 5/8"
19	70625086	3	WASHER, sealing
20	70625087	1	GASKET, power take-off cover
21	73010704	2	COVER, breather and filter
	70904206	12	LOCKWASHER, 3/8"
	70915017	6	NUT, wing, 3/8"NC
	73019683	6	NUT, aluminum, 3/8"NC

(Continued)

HYDRAULIC TANK (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
22	70626685	2	GASKET, breather and filter cover (See item 90)
23	73016858	1	DIPSTIC, oil level
24	73013122	1	CASE, oil filter
25	70923836	2	O-RING, filter cases
26	-----	1	ELEMENT, oil filter (Order item 90)
27	70045143	1	WASHER, element retaining
28	73012944	1	SPRING, element retaining
29	73010691	1	CASE, air filter
30	-----	1	ELEMENT, air filter (Order item 90)
31	73010655	1	GASKET, air filter case
32	73010481	1	BREATHER ASSY. (Includes items 33 thru 35)
	70901769	1	COUPLING, pipe, 1-1/4"NPT
33	73010482	1	BASE, breather
34	73006745	1	CAP, breather
	73006744	1	SCREW
35	-----	1	ELEMENT, breather (Order item 90)
36	73020506	2	VALVE ASSY., relief (Includes items 37 thru 41)
	70901829	2	BUSHING, pipe reducing, 1" NPT to 3/4"NPT
37	73019598	2	BODY, relief valve (Original equipment)
	73054059	2	BODY ASSY. (Includes insert)(For service replacement valves only)
38	73019977	2	PLUNGER ASSY., relief valve (Includes ball) (Original equipment)
	73052771	2	POPET (For service replacement valve only)
39	73016277	2	SPRING, relief valve
40	73020521	2	NUT, relief valve cap
41	73016278	2	CAP, relief valve
42	73014395	1	PIPE, discharge
	70910910	1	PIN, cotter, 7/32" x 3"
43	73011789	2	CAPSCREW, drilled-hd., 1/2"NF x 1"
44	73007380	1	WIRE, locking, #16 x 12"
45	70626705	1	GASKET, discharge pipe
46	70626691	1	PLUNGER, discharge pipe
47	70626692	1	SPRING, discharge pipe
48	70626857	1	TUBE, suction
49	73010941	1	CLAMP, suction tube (bottom half)
	73011923	1	CLAMP, suction tube (top half)
	73011789	2	CAPSCREW, drilled-hd., 1/2"NF x 1"
	73007380	1	WIRE, locking #16 x 12"

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HYDRAULIC TANK (Continued)

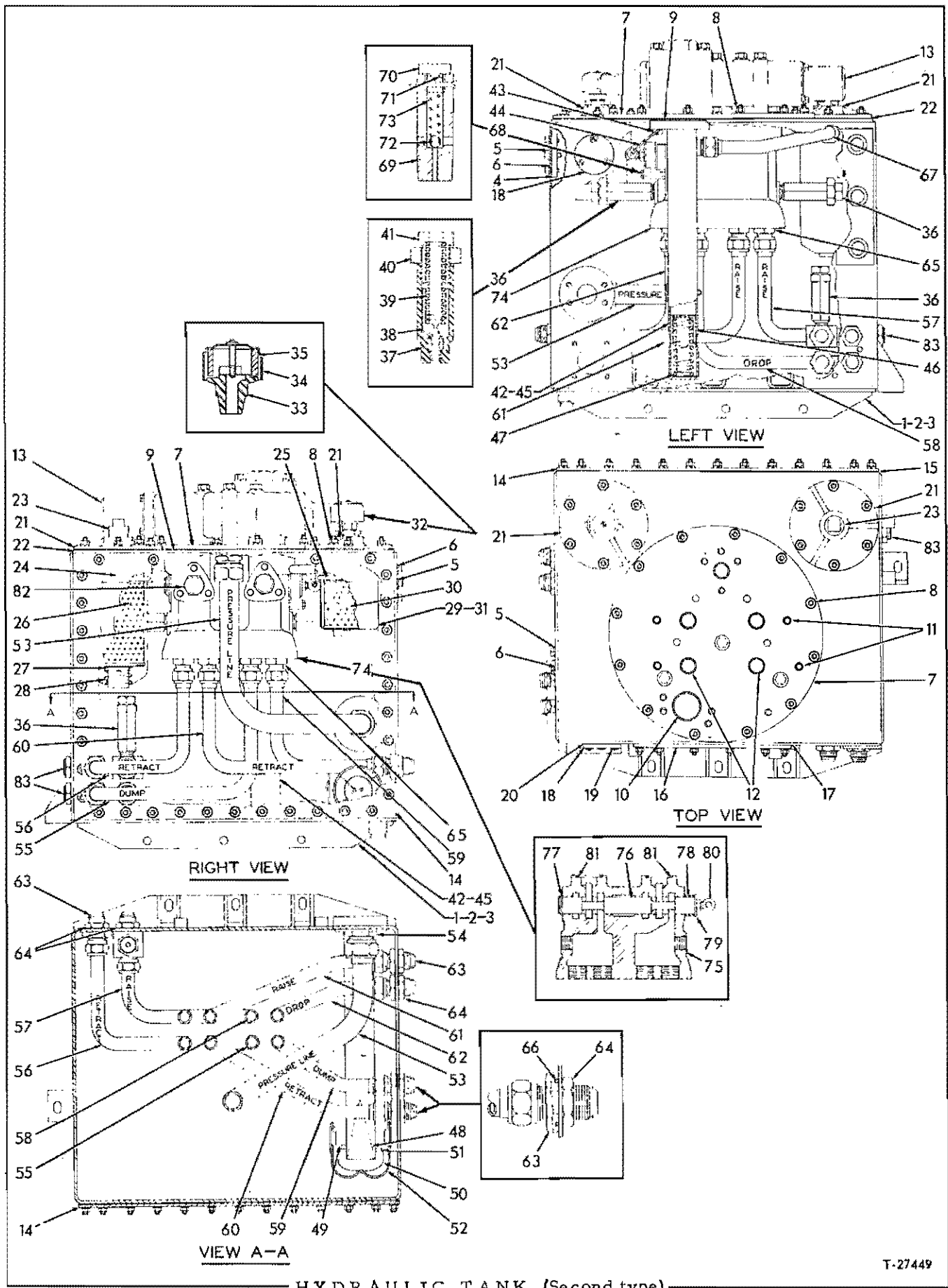
ITEM	PART NO.	QTY.	DESCRIPTION
50	70626688	1	STRAINER, suction line
51	73011349	1	MAGNET, suction line
52	73011930	1	BAFFLE, suction line
53	73011928	1	BAIL, suction line baffle
54	73016317	1	TUBE ASSEMBLY, main pressure (Includes nuts)
55	73016607	2	RETAINER, tube adapting
	73011789	6	CAPSCREW, drilled-hd., 1/2"NF x 1"
	73007380	2	WIRE, locking, #16 x 12"
56	70923577	6	O-RING, tube adapting retainer and diverting valve
57	73016341	2	SLEEVE, o-ring retaining
58	73016316	1	TUBE ASSEMBLY, dump pressure, left cylinder (Includes nuts)
59	73016310	1	TUBE ASSEMBLY, retract pressure, left cylinder (Includes nuts)
60	73016315	1	TUBE ASSEMBLY, raise pressure, left cylinder (Includes nuts)
61	73016330	1	TUBE ASSEMBLY, drop pressure, left cylinder (Includes nuts)
62	73016312	1	TUBE ASSEMBLY, dump pressure, right cylinder (Includes nuts)
63	73016314	1	TUBE ASSEMBLY, retract pressure, right cylinder (Includes nuts)
64	73016313	1	TUBE ASSEMBLY, raise pressure, right cylinder (Includes nuts)
65	73016311	1	TUBE ASSEMBLY, drop pressure, right cylinder (Includes nuts)
66	70923649	16	O-RING, tube adapting plate
67	70625077	16	SLEEVE, o-ring retaining
68	70625102	2	PLATE, tube adapting
	73011789	6	CAPSCREW, drilled-hd., 1/2"NF x 1"
	73007380	2	WIRE, locking, #16 x 12"
69	73016335	4	PLATE, tube adapting
	73011789	12	CAPSCREW, drilled-hd., 1/2"NF x 1"
	73007380	6	WIRE, locking, #16 x 12"
	70914875	3	CAPSCREW, 1/2"NF x 1"
	73010837	3	WASHER, sealing
70	70923664	10	O-RING, adapting plate
71	73011263	1	PLATE, tube adapting
	70914875	3	CAPSCREW, 1/2"NF x 1"
	73010837	3	WASHER, sealing
72	73010609	1	PLATE, tube adapting
	70914875	3	CAPSCREW, 1/2"NF x 1"
	73010837	3	WASHER, sealing
73	73011356	1	HOSE, oil filter
74	70921911	2	CLAMP, hose, 11/16" to 1-1/4" diam.

(Continued)

HYDRAULIC TANK (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
75	73011755	1	CLIP, hose, oil filter
	73011789	1	CAPSCREW, drilled-hd., 1/2"NF x 1"
	73013079	1	WIRE, locking, #16 x 8"
76	70626698	1	VALVE ASSEMBLY, check (Consists of items 77 thru 81)
77	-----	1	BODY, check valve (Not serviced separately. Order item 76)
78	-----	1	CAP, check valve (Not serviced separately. Order item 76)
	70904020	1	PIN, cotter, 1/16" x 1"
79	70923558	1	O-RING, check valve
80	70905358	1	BALL, check valve (1/4" diam.)
81	73007405	1	SPRING, check valve
82	73010878	1	VALVE ASSEMBLY, diverting (Consists of items 83 thru 88)
83	-----	1	HOUSING, diverter valve (Not serviced. Order item 82)
84	-----	1	PLUNGER, diverter valve (Not serviced. Order item 82)
85	73007239	1	RING, snap, valve plunger
86	73012461	1	SPACER, valve plunger
87	70914906	1	WASHER, retaining, valve plunger (17/32" I.D.)
88	73010871	1	EYE, valve plunger
	70913177	1	NUT, jam, 1/2"NF
	73010603	1	WIRE, locking, #16 x 22"
89	73011335	1	PLATE, adapting (For use when installing Power Take-off)
	70914875	3	CAPSCREW, 1/2"NF x 1"
	73010837	3	WASHER, sealing
90	73019696	1	ELEMENT KIT, filter and breather (Consists of items 22, 26, 30, and 35) (Not illustrated)

MEMO



HYDRAULIC TANK (Second type)

T-27449

HYDRAULIC TANK

USAGE: Effective with shovel serial No. 122

ITEM	PART NO.	QTY.	DESCRIPTION
1	73019317	1	TANK AND VALVE ASSEMBLY, hydraulic (Consists of items 2 thru 83)
2	73019342	1	TANK ASSEMBLY, hydraulic (Consists of 1 PLUG 70909091, items 3 thru 9 and 14 thru 83)
	70909091	1	PLUG, pipe, ctsk-hd., 3/4"NPT
3	70626667	1	TANK, hydraulic (Includes welded studs)
4	70626704	1	PLATE, cover (Discard when installing Power Take-off)
	70920601	1	CAPSCREW, 7/16"NF x 7/8"
5	70625085	1	WASHER, sealing
	70916381	2	CAPSCREW, 3/8"NF x 3/4"
6	70625084	2	WASHER, sealing
7	70626669	1	PLATE, valve mounting
	70913105	3	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	3	LOCKWASHER, 1/2"
	70904206	12	LOCKWASHER, 3/8"
8	73019683	12	NUT, aluminum, 3/8"NC
9	70626702	1	GASKET, valve mounting plate
10	70923814	1	O-RING, valve mounting (large)
11	70923565	4	O-RING, valve mounting (small)
12	70923577	5	O-RING, valve mounting (medium)
13	-----	1	VALVE ASSEMBLY, control (See SHOVEL VALVE AND CONTROLS)
	70916427	2	CAPSCREW, 1/2"NF x 4-3/4"
	70920606	6	CAPSCREW, 1/2"NF x 5-3/4"
	70904208	8	LOCKWASHER, 1/2"
14	70626670	1	COVER, tank side
	70904206	35	LOCKWASHER, 3/8"
	73019683	35	NUT, aluminum, 3/8"NC
15	70626671	1	GASKET, tank side cover
16	70626676	1	COVER, valve inspection
	70904206	12	LOCKWASHER, 3/8"
	73019683	12	NUT, aluminum, 3/8"NC
17	70626677	1	GASKET, inspection cover
18	70626678	1	COVER, power take-off
	70914108	3	SCREW, machine, 1/4"NF x 5/8"
19	70625086	3	WASHER, sealing
20	70625087	1	GASKET, power take-off cover
21	73019284	2	COVER, breather and filter
	70904206	12	LOCKWASHER, 3/8"
	73019683	12	NUT, aluminum, 3/8"NC
22	70626685	2	GASKET, breather and filter cover (See item 84)
23	70626701	1	DIPSTICK, oil level

(Continued)

HYDRAULIC TANK (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
24	73013122	1	CASE, oil filter
25	70923836	2	O-RING, filter cases
26	-----	1	ELEMENT, oil filter (Order item 84)
27	70045143	1	WASHER, element retaining
28	73012944	1	SPRING, element retaining
29	73010691	1	CASE, air filter
30	-----	1	ELEMENT, air filter (Order item 84)
31	73010655	1	GASKET, air filter case
32	73002766	1	BREATHER ASSY. (Includes items 33 thru 35)
	70901844	1	BUSHING, pipe reducing, 1-1/4"NPT to 3/4"NPT
	70901829	1	BUSHING, pipe reducing, 1" NPT to 3/4"NPT
33	73002767	1	BASE, breather
34	73002768	1	CAP, breather
	70914172	1	SCREW, machine #10-32NF x 1-1/4"
	70904203	1	LOCKWASHER, #10
35	-----	1	ELEMENT, breather (Order item 84)
36	73020506	3	VALVE ASSY., relief (Consists of items 37 thru 41) (1 less used on shovels prior to #144)
37	73019598	3	BODY, relief valve (Original equipment)
	73054059	3	BODY ASSY. (Includes insert)(For service replacement valves only)
38	73019977	3	PLUNGER ASSY., relief valve (Includes ball) (Original equipment)
	73052771	3	POPPET (For service replacement valves only)
39	73016277	3	SPRING, relief valve
40	73020521	3	NUT, relief valve cap
41	73016278	3	CAP, relief valve
42	70626697	1	PIPE, discharge
	70910910	1	PIN, cotter, 7/32" x 3"
43	73011789	2	CAPSCREW, drilled-hd., 1/2"NF x 1"
44	73007380	1	WIRE, locking, #16 x 12"
45	70626705	1	GASKET, discharge pipe
46	70626691	1	PLUNGER, discharge pipe
47	70626692	1	SPRING, discharge pipe
48	70626688	1	STRAINER, suction line
49	73011349	1	MAGNET, suction line
50	73019231	1	BAFFLE, suction line
51	73019303	1	SUPPORT, suction line baffle
52	70626687	1	BAIL, suction line baffle

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HYDRAULIC TANK (Continued)

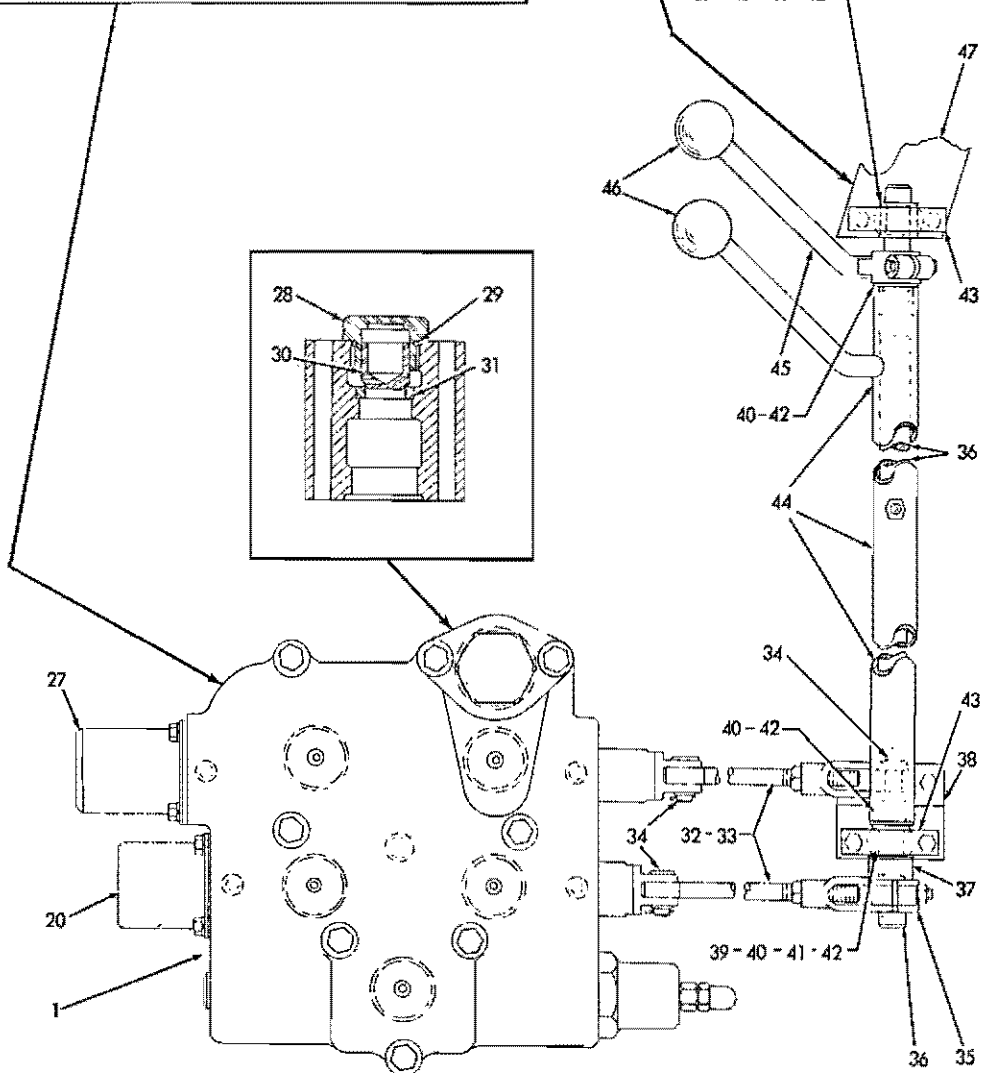
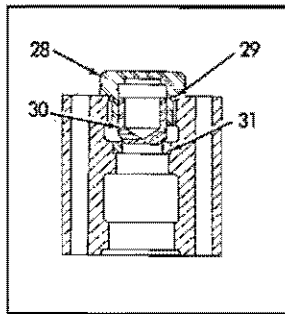
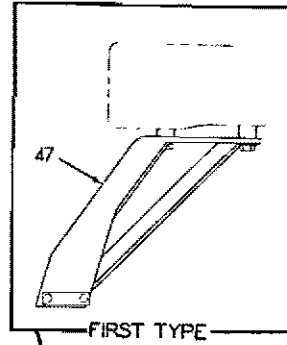
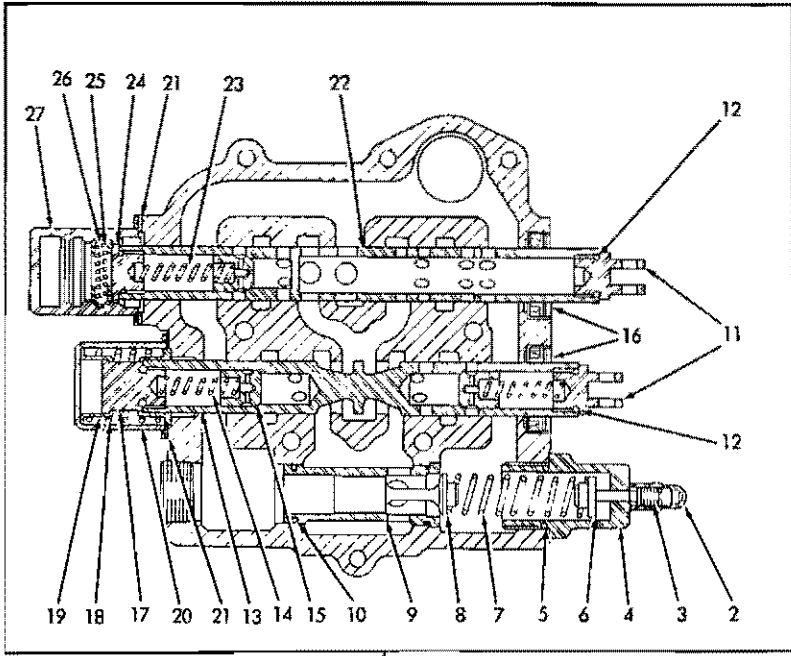
ITEM	PART NO.	QTY.	DESCRIPTION
53	70626680	1	TUBE ASSEMBLY, main pressure (Includes nuts)
54	70626679	2	CONNECTOR
55	70626689	1	TUBE ASSEMBLY, dump pressure, left cylinder (Includes nuts)
56	70626674	1	TUBE ASSEMBLY, retract pressure, left cylinder (Includes nuts)
57	73017351	1	TUBE ASSEMBLY, raise pressure, left cylinder (Includes nuts) (Used prior to shovel #144)
	70626675	1	TUBE ASSEMBLY, raise pressure, left cylinder (Includes nuts) (Effective with shovel #144)
	73021852	1	TEE, bulkhead
58	70626690	1	TUBE ASSEMBLY, drop pressure, left cylinder (Includes nuts)
59	70626683	1	TUBE ASSEMBLY, dump pressure, right cylinder (Includes nuts)
60	70626684	1	TUBE ASSEMBLY, retract pressure, right cylinder (Includes nuts)
61	70626681	1	TUBE ASSEMBLY, raise pressure, right cylinder (Includes nuts)
62	70626682	1	TUBE ASSEMBLY, drop pressure, right cylinder (Includes nuts)
63	73016070	8	UNION, bulkhead, cylinder tube (1 less used effective with shovel #144)
64	73016394	10	NUT, bulkhead union
65	73016347	8	CONNECTOR, cylinder tube
66	70923664	10	O-RING, cylinder tube
67	70626673	1	TUBE ASSEMBLY, oil filter (Includes nuts)
68	70626698	1	VALVE ASSEMBLY, check (Consists of items 69 thru 73)(Used prior to Shovel #144)
	70907856	1	PLUG, pipe, hex-socket, 3/8"NPT (Effective with shovel #144)
69	-----	1	BODY, check valve (Not serviced separately)
70	-----	1	CAP, check valve (Not serviced separately)
	70904020	1	PIN, cotter, 1/16" x 1"
71	70923558	1	O-RING, check valve
72	70905358	1	BALL, check valve (1/4" diam.)
73	73007405	1	SPRING, check valve
74	70626703	1	VALVE ASSEMBLY, diverting (Consists of items 75 thru 80. When replacing also order item 81)
75	-----	1	HOUSING, diverter valve (Not serviced. Order item 74)
76	-----	1	PLUNGER, diverter valve (Not serviced. Order item 74)
77	73007239	1	RING, snap, valve plunger
78	73012461	1	SPACER, valve plunger
79	70914906	1	WASHER, retaining, valve plunger (17/32" I.D.)

(Continued)

HYDRAULIC TANK (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
80	73010871	1	EYE, valve plunger
	70913830	1	NUT, jam, 1/2"NF
	73010603	1	WIRE, locking, #16 x 22"
81	70923577	4	O-RING, diverter valve mounting
82	70626706	2	PLUG, diverter valve (Remove when installing Power Take-off)
83	70626672	2	PLUG, cylinder tube protecting
84	73038306	1	ELEMENT KIT, filter and breather (Consists of items 22, 26, 30 and 35) (Not illustrated)

MEMO



SHOVEL VALVE AND CONTROLS

T-30874

SHOVEL VALVE AND CONTROLS

ITEM	PART NO.	QTY.	DESCRIPTION
1	73010867	1	VALVE ASSEMBLY, control (Consists of housing which is not serviced separately, hardware indented below and items 2 thru 31)
	70908944	1	PLUG, pipe, hex-socket, 1/2"NPT
	70918850	5	PLUG, pipe, hex-socket, 1/4"NPT
	70916427	1	CAPSCREW, 1/2"NF x 4-3/4" (2 used prior to shovel #143)
	70913605	1	CAPSCREW, 1/2"NF x 5-1/2" (Effective with shovel #143)
	70920606	6	CAPSCREW, 1/2"NF x 5-3/4"
	70904208	8	LOCKWASHER, 1/2"
2	73003911	1	NUT, relief valve screw
	70911043	1	NUT, 1/2"NF
3	73004711	1	SCREW, relief valve adjustment
4	73007228	1	CAP, relief valve
5	70923577	1	O-RING, relief valve cap
6	73004720	1	GUIDE, relief valve spring
7	73007227	1	SPRING, relief valve
8	73004709	1	PLUNGER, relief valve
9	73010862	1	SEAT, relief valve plunger
10	70923664	1	O-RING, relief valve seat
11	73004708	2	EYE, operating plunger
12	70923575	4	O-RING, operating plunger eye
13	-----	1	PLUNGER, operating, double acting (Order item 1)
14	73001716	2	SPRING, check valve plunger
15	73004706	3	PLUNGER, check valve
16	73004707	2	SEAL, oil, operating plunger
17	73010866	1	CAP, operating plunger
18	73010864	1	SPRING, return, operating plunger
19	73010865	2	RETAINER, plunger return spring
20	73010863	1	CAP, spring retainer
	70916277	4	CAPSCREW, 5/16"NC x 5/8"
	70904205	4	LOCKWASHER, 5/16"
21	73010855	2	GASKET, spring retainer and detent cap
22	-----	1	PLUNGER, operating, float (Order item 1)
23	73010857	1	SPRING, check valve plunger

(Continued)

SHOVEL VALVE AND CONTROLS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
24	73010856	1	CAP, detent, operating plunger
25	73010853	1	SPRING, detent plunger
26	73010854	2	PLUNGER, detent
27	73010852	1	CAP, detent plunger
	70916277	4	CAPSCREW, 5/16"NC x 5/8"
	70904205	4	LOCKWASHER, 5/16"
28	73010848	1	CAP, flow valve
29	70923577	1	O-RING, flow valve cap
30	73010849	1	PLUNGER, flow valve
31	73010851	1	SEAT, flow valve plunger
32	73019486	2	ROD ASSEMBLY, control (Includes 1 BUSHING 73013909)(Used prior to shovel #143)
	73021519	2	ROD ASSEMBLY, control (Includes 1 BUSHING 73013909)(Effective with shovel #143)
	70917666	2	YOKE, rod end, adjustable, 1/2"NF
	70913177	2	NUT, jam, 1/2"NF
33	73013909	4	BUSHING, control rod
34	70049993	4	PIN, control linkage
	70910244	2	WASHER, plain, SAE std., 1/2" (valve end)
	70900806	4	PIN, cotter, 1/8" x 1"
35	73012171	1	LEVER ASSEMBLY, control (Includes 1 BUSHING 73013909)
	70916385	1	CAPSCREW, 3/8"NF x 2"
	70904206	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF
36	73017946	1	SHAFT, control lever
37	70626730	1	SPACER, control lever
38	70626729	1	BRACKET, control shaft
	70916225	2	CAPSCREW, 3/8"NF x 1"
	70900817	2	WASHER, plain, U.S. std., 3/8"
	70904206	2	LOCKWASHER, 3/8"
	70911041	2	NUT, 3/8"NF
39	70626721	2	BEARING ASSEMBLY, control shaft (Consists of 1 BEARING 70208253, 1 RETAINER 70626720 and 2 SEAL 70052662)
40	70208253	4	BEARING, control shaft
41	70626720	2	RETAINER, control shaft bearing
42	70052662	6	SEAL, control shaft bearing

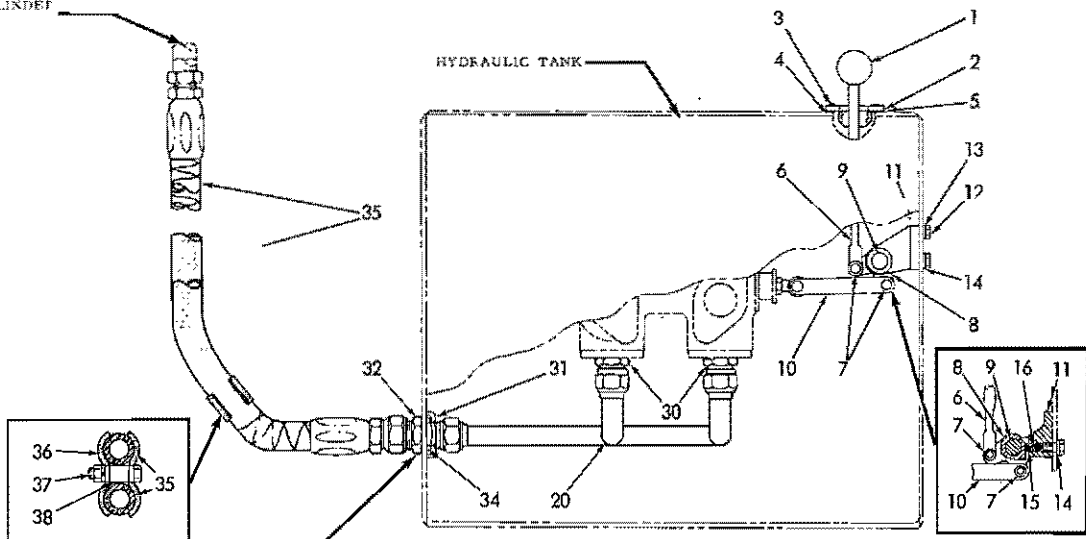
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SHOVEL VALVE AND CONTROLS (Continued)

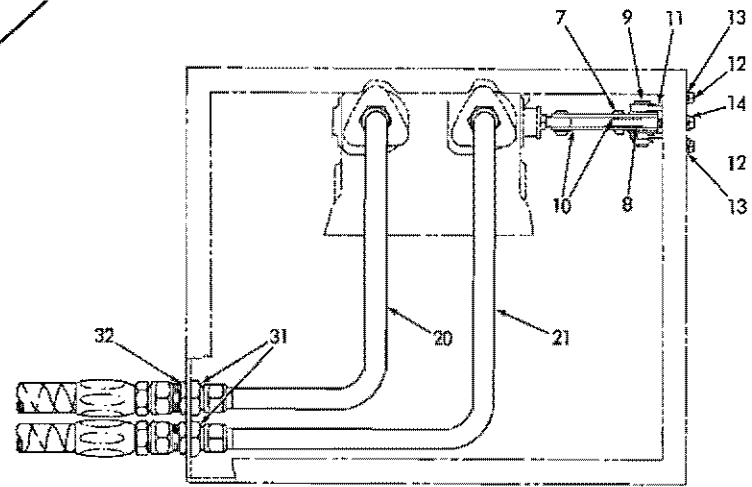
ITEM	PART NO.	QTY.	DESCRIPTION
43	70626715	2	BLOCK ASSY., pillow (Includes lug, block, 2 CAPSCREW 70916387, 2 LOCKWASHER 70904206 and 2 NUT 70911041)
	70916387	4	CAPSCREW, 3/8"NF x 2-1/2"
	70911115	2	WASHER, plain, SAE std., 3/8"
	70904206	4	LOCKWASHER, 3/8"
	70911041	4	NUT, 3/8"NF
44	73017949	1	TUBE ASSY., operating lever (Includes 1 BUSHING 73013909, 2 BEARING 70208253 2 SEAL 70052662 and FITTING indented below)
	70914465	1	FITTING, lubricating, straight, 1/8"NPT
	70911386	2	WASHER, plain, 25/32"I.D. x 1-1/2"O.D.
45	73017963	1	LEVER, operating
	70905122	2	KEY, woodruff, 1/8" x 3/4"
	70916385	1	CAPSCREW, 3/8"NF x 2"
	70904206	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF
46	73001171	2	KNOB, operating
	703019480	1	BRACKET, control shaft (Used prior to shovel #143)
	70916311	2	CAPSCREW, 1/2"NC x 1-1/4"
47	70904208	2	LOCKWASHER, 1/2"
	73021400	1	BRACKET, control shaft (Effective with shovel #143)
	70914875	2	CAPSCREW, 1/2"NF x 1"
	70910244	2	WASHER, plain, SAE std., 1/2"
	70904208	2	LOCKWASHER, 1/2"

SPE RIPPED CYLINDER
& PIPING

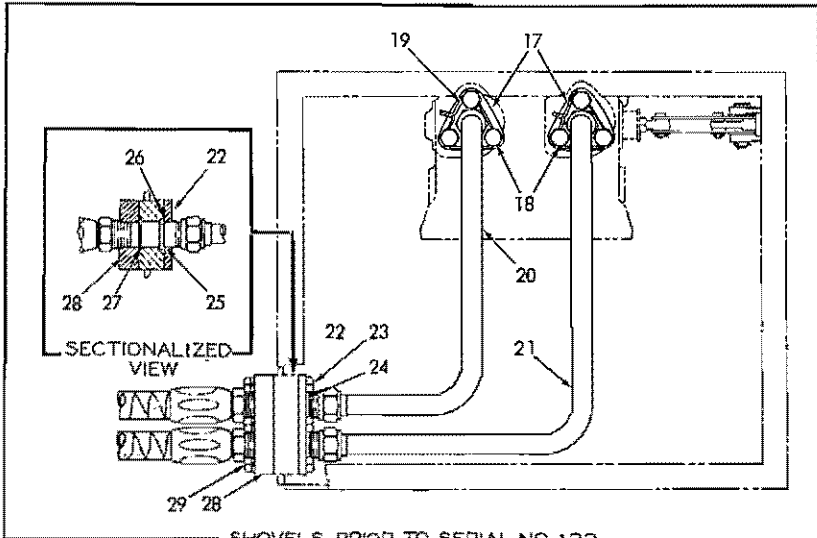
HYDRAULIC TANK



TOP VIEW



FRONT VIEW



SECTIONALIZED
VIEW

SHOVELS PRIOR TO SERIAL NO. 122

DIVERTING VALVE CONTROL AND PIPING

T-70817

DIVERTING VALVE CONTROL AND PIPING

USAGE: Special equipment for Model HD16G. Provides rear hydraulic outlet for operating auxiliary equipment.

* Shovels prior to serial No. 122
** Shovels serial No. 122 and up

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70091862	1	1	KNOB, control rod
2	70625091	1	1	FLANGE, guide, control rod
	70914108	3	3	SCREW, machine, 1/4"NF x 5/8"
3	70625086	3	3	WASHER, sealing
4	70625087	1	1	GASKET, guide flange
5	70625088	1	1	SEAL, oil, guide flange
6	70625092	1	1	ROD, control
7	70078810	3	3	PIN, control rod and link
	70911115	2	2	WASHER, plain, SAE std., 3/8"
	70900942	3	3	PIN, cotter, 3/32" x 5/8"
8	70625090	1	1	BELLCRANK, control rod
9	70643996	1	1	PIN, bellcrank
	70900806	1	1	PIN, cotter, 1/8" x 1"
10	70625089	2	2	LINK, bellcrank to valve
11	70625094	1	1	BRACKET, mounting
12	70036032	2	2	CAPSCREW, 3/8"NF x 3/4"
13	70625084	2	2	WASHER, sealing (3/8")
	70920601	1	1	CAPSCREW, 7/16"NF x 7/8"
14	70625085	1	1	WASHER, sealing (7/16")
15	70614184	1	1	POPPET, detent
16	70625098	1	1	SPRING, detent poppet
17	70625081	2	-	PLATE, tube adapting
18	70048676	6	-	CAPSCREW, drilled-hd., 1/2"NF x 1"
19	70023633	2	-	WIRE, locking, 1/16" x 12"
20	70625079	1	-	TUBE ASSEMBLY, left (Includes nuts)
	70625108	-	1	TUBE ASSEMBLY, left (Includes nuts)
21	70625078	1	-	TUBE ASSEMBLY, right (Includes nuts)
	70625107	-	1	TUBE ASSEMBLY, right (Includes nuts)
22	70625102	1	-	PLATE, retaining, tube sleeve
23	70048676	3	-	CAPSCREW, drilled-hd., 1/2"NF x 1"
24	70023633	2	-	WIRE, locking, 1/16" x 12"
25	70923649	4	-	O-RING, tube sleeve
26	70625077	4	-	SLEEVE, tube adapting
27	70923664	2	-	O-RING, adapter plate

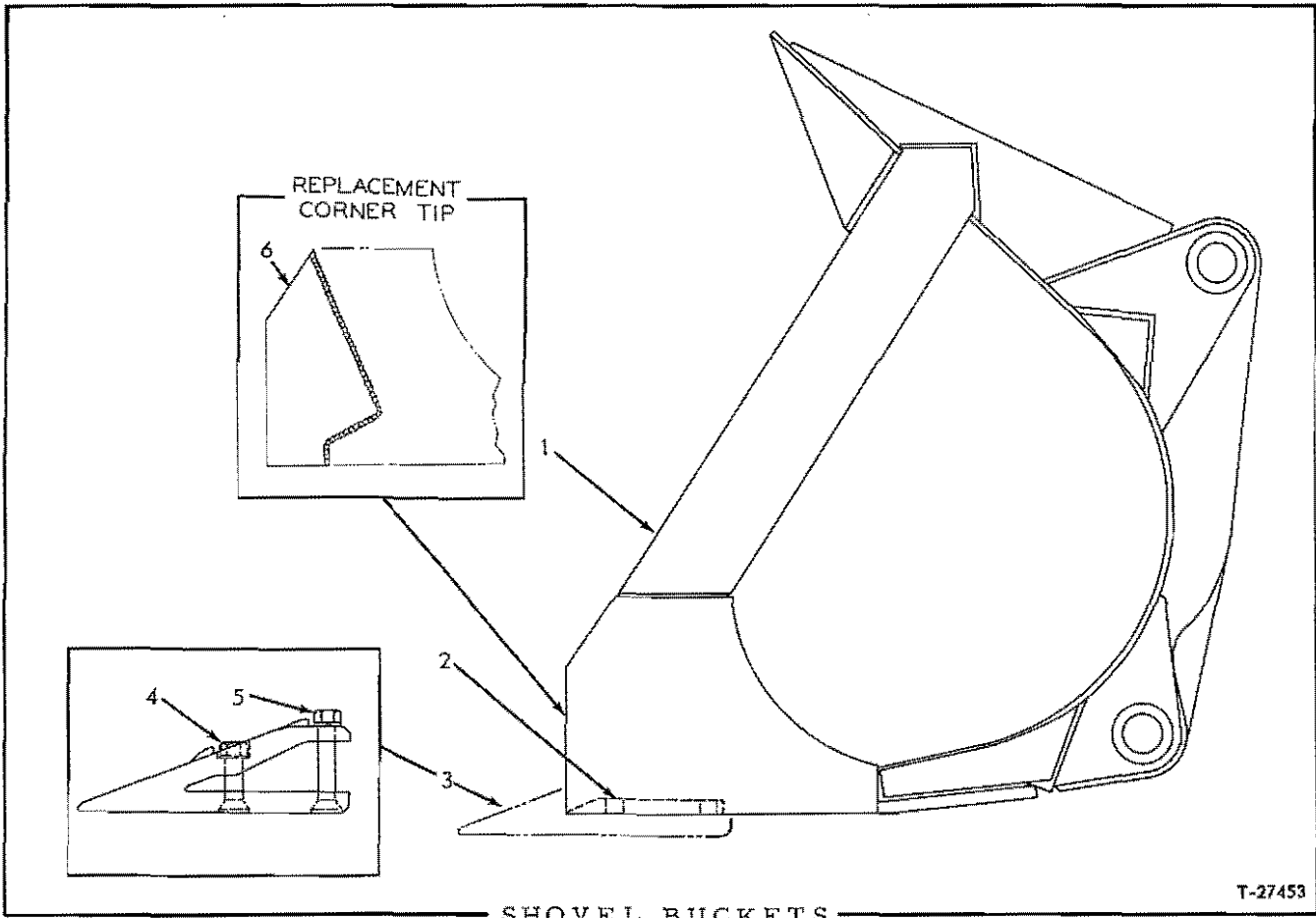
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DIVERTING VALVE CONTROL AND PIPING (Continued)

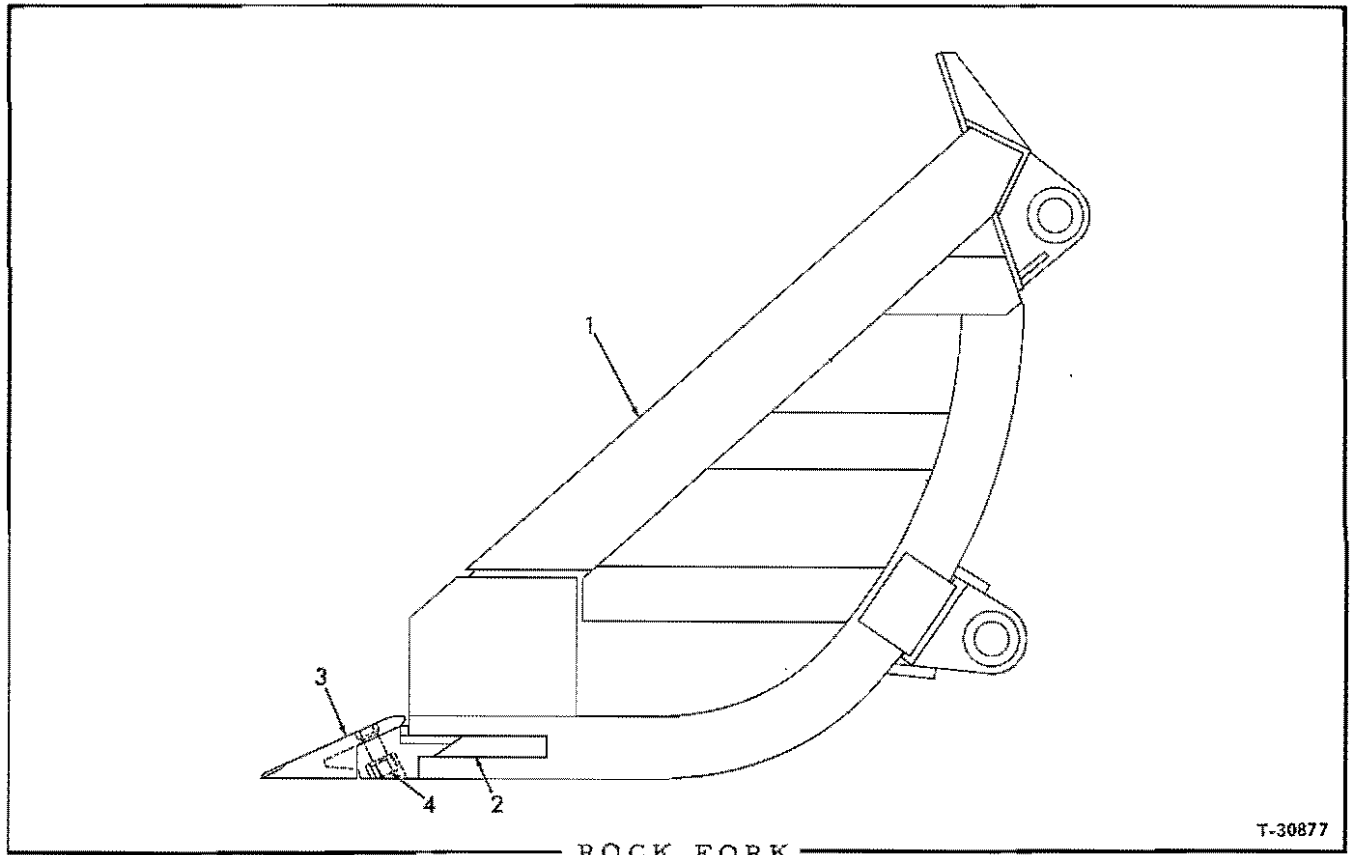
ITEM	PART NO.	QTY.	* **	DESCRIPTION
28	70625080	1	-	PLATE, tube adapter
	70901666	2	-	PLUG, pipe, ctsk-hd., 1"NPT (Shipping only)
29	70035073	3	-	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	3	-	LOCKWASHER, 1/2"
30	73016347	-	2	CONNECTOR, internal tube
31	73016070	-	2	UNION, bulkhead
32	73016394	-	2	NUT, special
33	70625106	-	2	CAP, closure (For protecting disconnected lines)
34	70923664	-	2	O-RING, bulkhead union
35	70625217	2	-	HOSE ASSEMBLY, (See page 6 for parts)
	70625222	-	2	HOSE ASSEMBLY, (See page 6 for parts)
36	70625221	2	2	CLAMP, hose supporting
37	70035068	1	1	CAPSCREW, 1/2"NF x 2-1/4"
	70904208	1	1	LOCKWASHER, 1/2"
	70911043	1	1	NUT, 1/2"NF
38	70625220	1	1	SPACER, hose clamp

MEMO

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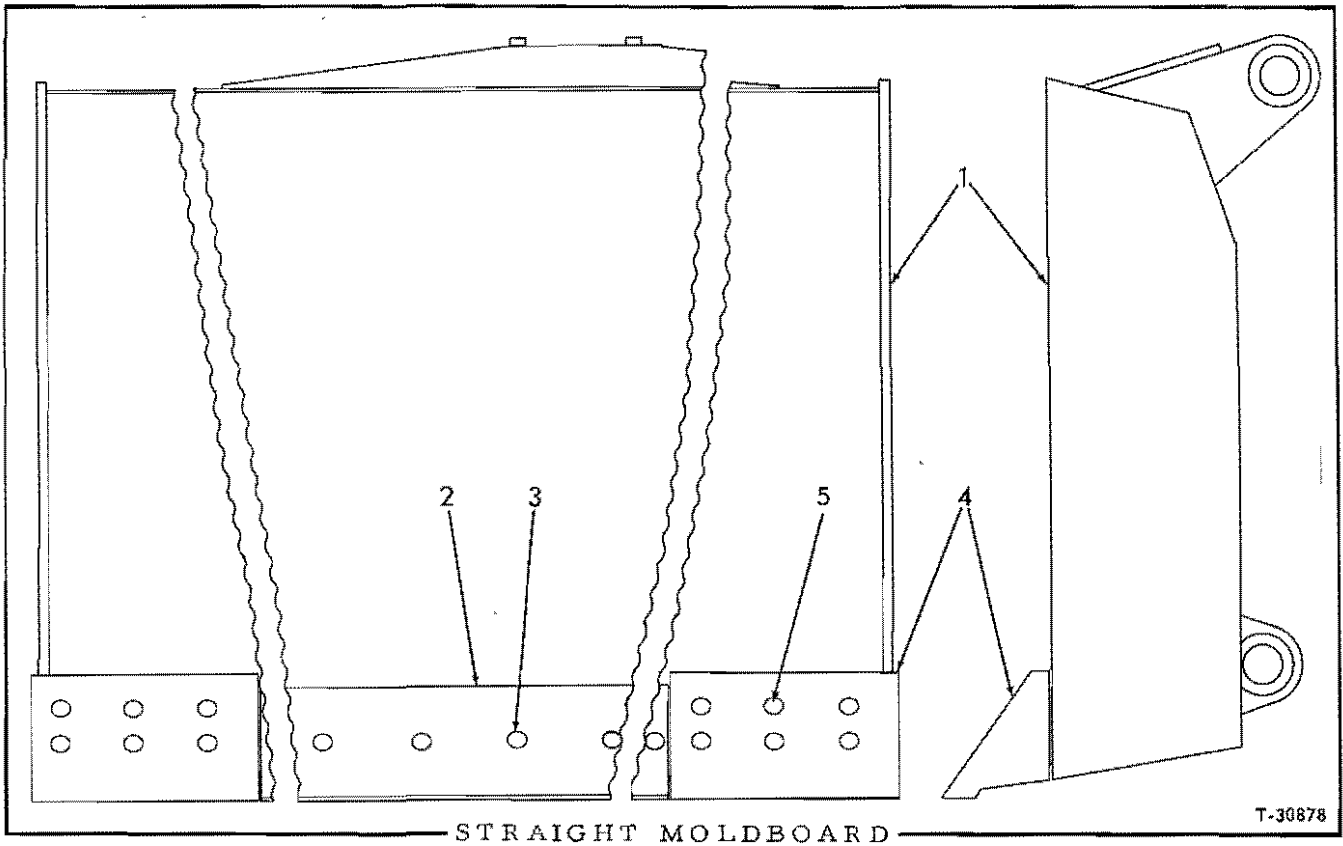


ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	BUCKET ASSEMBLY, standard (Includes item 2) (Order BUCKET ASSEMBLY 70090687)
	-----	1	BUCKET ASSEMBLY, rock (Includes items 2 and 3) (Order BUCKET ASSEMBLY 70090687)
	-----	1	BUCKET ASSEMBLY, light materials (Discontinued)
	70090687	1	BUCKET ASSEMBLY, general purpose (Includes item 2)
2	70626789	1	EDGE, cutting (1" thick, 105-1/2" long) (Requires welding to install)
3	70627121	8	TOOTH ASSEMBLY (Includes hardware indented below)
4	70636512	8	CAPSCREW, 1"NC x 3-3/4"
5	70636513	8	CAPSCREW, 1"NC x 5-1/2"
	70910916	16	LOCKWASHER, 1"
	70911032	16	NUT, 1"NC
6	70635463	1	TIP, bucket corner, left
	70635464	1	TIP, bucket corner, right
			Not original equipment. Requires welding to install.



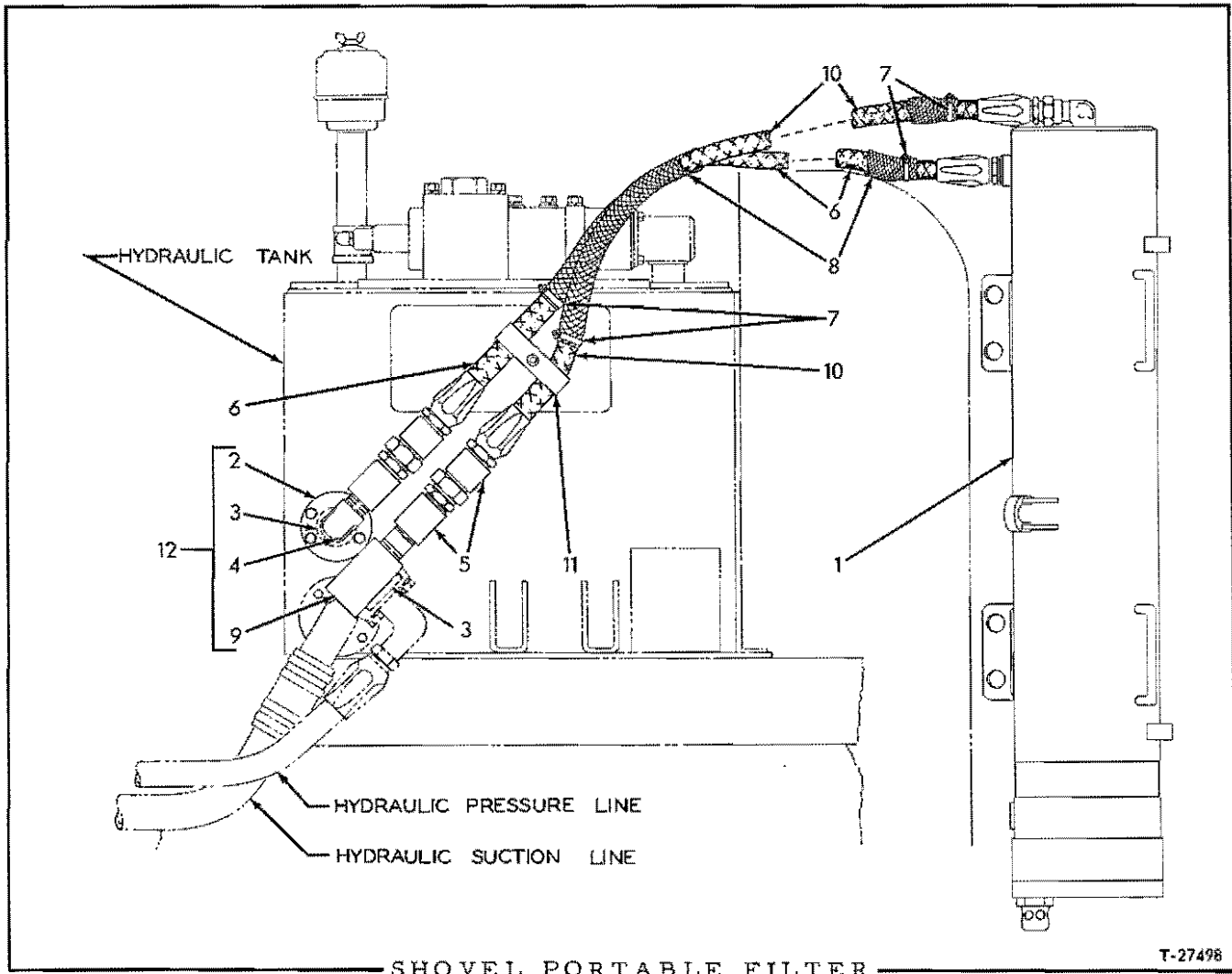
USAGE: Special equipment.

ITEM	PART NO.	QTY.	DESCRIPTION
1	70080258	1	ROCK FORK ASSEMBLY (Without tip back) (Includes items 2 thru 4)
	-----	1	ROCK FORK ASSEMBLY (With tip back) (Includes items 2 thru 4) (Discontinued)
2	70627171	10	SHANK, tooth (Requires welding to install)
3	70627172	10	TOOTH ASSEMBLY, fork (Includes hardware indented below)
4	70627145	10	CAPSCREW
	70910916	10	LOCKWASHER, 1"
	70912908	10	NUT, 1"NC



USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	70078300	1	MOLDBOARD ASSEMBLY (Includes items 2 thru 5)
2	70627196	1	EDGE, cutting
3	73009818	20	BOLT, plow, 3/4"NC x 3"
	70904369	20	LOCKWASHER, 3/4"
	70910923	20	NUT, 3/4"NC
4	70627197	1	BIT, end, left
	70627198	1	BIT, end, right
5	73009818	12	BOLT, plow, 3/4"NC x 3"
	70904369	12	LOCKWASHER, 3/4"
	70910923	12	NUT, 3/4"NF



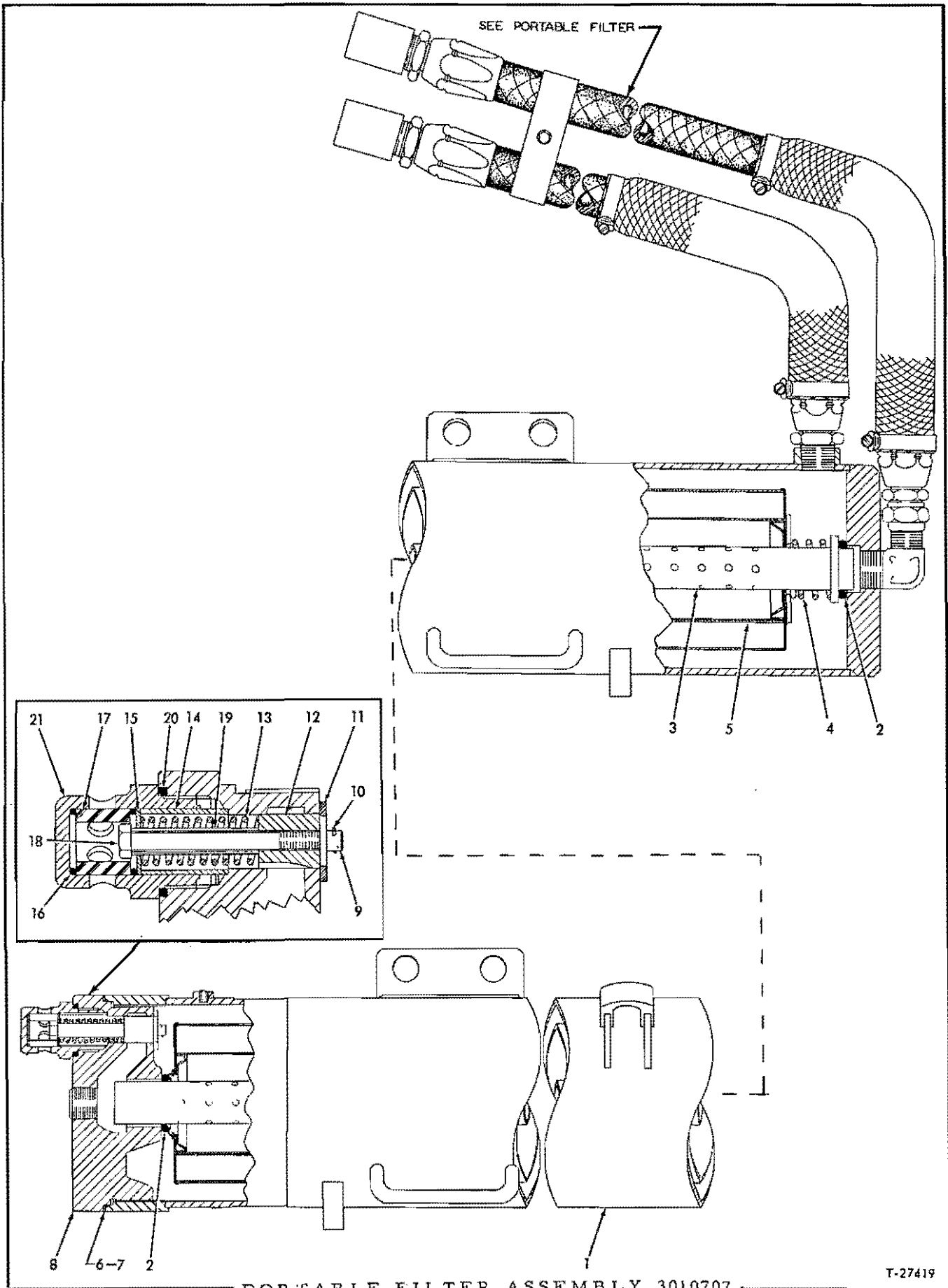
USAGE: Special equipment. For reconditioning hydraulic system fluid

ITEM	PART NO.	QTY.	DESCRIPTION
1	73010707	1	FILTER ASSEMBLY, hydraulic oil (See page 667 for parts) (See item 13)
2	73015613	1	ADAPTER, filter hose to hydraulic tank
	70916028	4	CAPSCREW, 1/2"NF x 1-3/4"
	70904208	4	LOCKWASHER, 1/2"
3	70923578	2	O-RING, adapter
4	73016294	1	ELBOW, adapter (90°)
5	73004141	4	COUPLING, adapter to hose
6	73010972	1	HOSE ASSEMBLY, filter to hydraulic tank (See HOSE PARTS) (Also includes items 7 and 8)
7	70921913	4	CLAMP, hose, 1-13/16" to 2-3/4" diam.

(Continued)

SHOVEL PORTABLE FILTER (Continued)

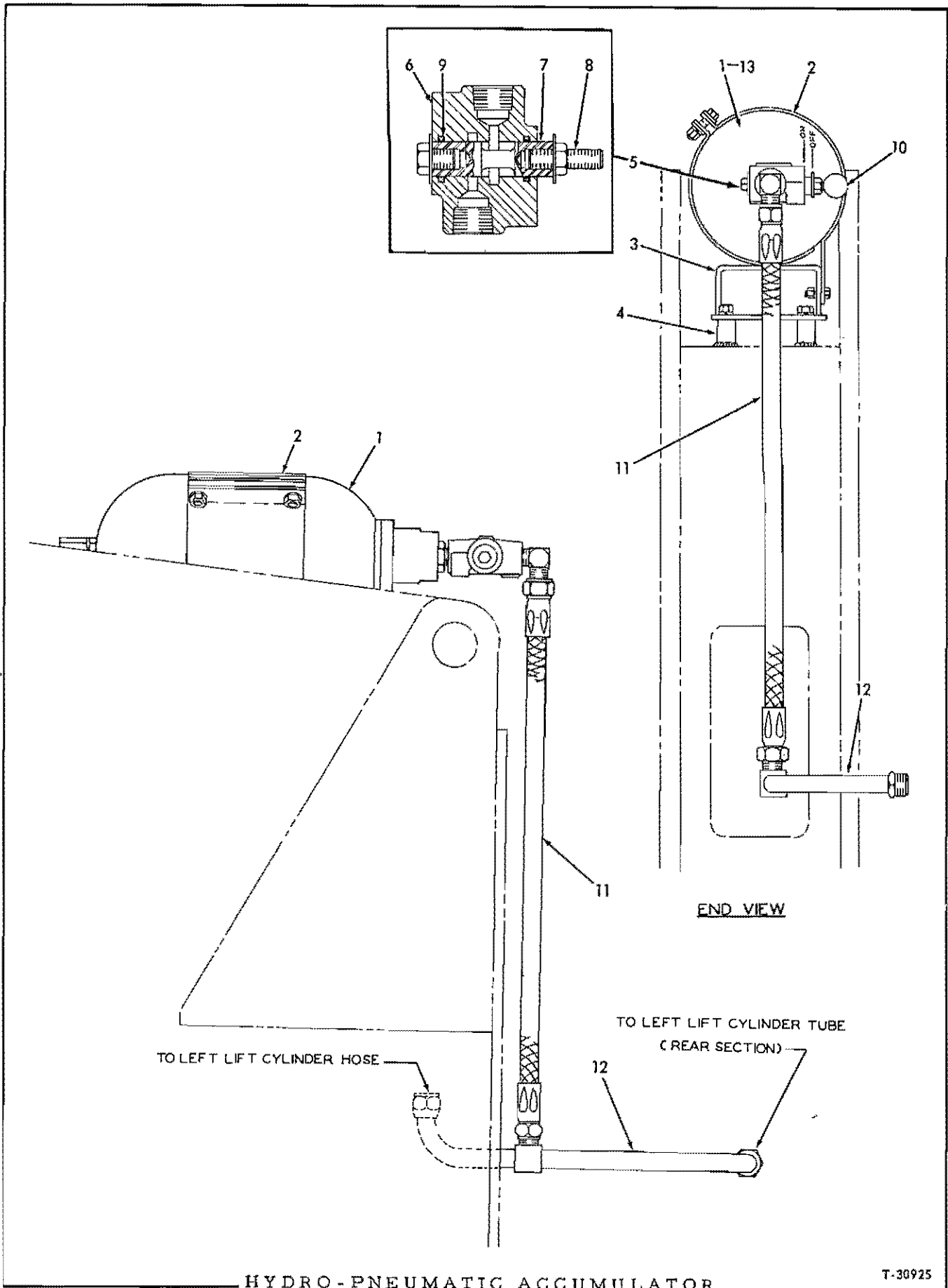
ITEM	PART NO.	QTY.	DESCRIPTION
8	73011715	2	GUARD, hose protecting
9	73015614	1	ADAPTER, filter to pressure line
	70901520	1	NIPPLE, pipe, 1"NPT x 1-1/2" } See item 12
10	73010979	1	HOSE ASSEMBLY, filter to pressure line (See HOSE PARTS) (Also includes items 7 and 8)
11	73011114	2	CLAMP, hose
	70916381	1	CAPSCREW, 3/8"NF x 3/4"
	70904206	1	LOCKWASHER, 3/8"
	70910123	1	NUT, 3/8"NF
			} See item 13
12	73017890	1	PIPING AND ADAPTER KIT (Consists of items 2 thru 4 and 9)
13	73012166	1	FILTER KIT, hydraulic system fluid (Consists of items 1, 5, 6, 10 and 11) (Not illustrated)



PORTABLE FILTER ASSEMBLY 73010707

USAGE: See page 664

ITEM	PART NO.	QTY.	DESCRIPTION
1	73010707	1	CASE, filter
	70907859	1	PLUG, pipe, hex-socket, 1/4"NPT
	70920686	1	ELBOW, 90°, flare type, 1" tube, 1"NPT
2	70923826	2	O-RING, element tube
3	73011370	1	TUBE, element locating
4	73010706	1	SPRING, filter
	70900826	1	WASHER, plain, SAE std., 1-3/4"
5	73010360	5	ELEMENT, filter
6	70924166	1	O-RING, filter head (Also order 1 RING 73012554)
7	73012554	1	RING, back-up (Also order 1 O-RING 70924166)
8	73010529	1	HEAD, filter
	70909365	1	PLUG, pipe, hex-socket, 1"NPT
9	73002978	2	CAPSCREW, valve locating (5/16"NC x 3/4")
10	73001085	1	WIRE, locking, #16 x 17"
11	73010555	1	PLATE, retaining
12	73010712	1	PLUNGER, valve
13	73010713	1	SPRING, safety valve
14	73010540	1	BUSHING, valve
15	73010539	1	SPACER, valve bushing
16	70923578	2	O-RING, valve tube
17	73010645	1	TUBE (Lucite)
18	73015609	1	CAPSCREW, valve centering (3/8"NF x 3-1/4")
19	73010710	1	SPACER, plunger
20	70923577	1	O-RING, valve cap
21	73010586	1	CAP, valve



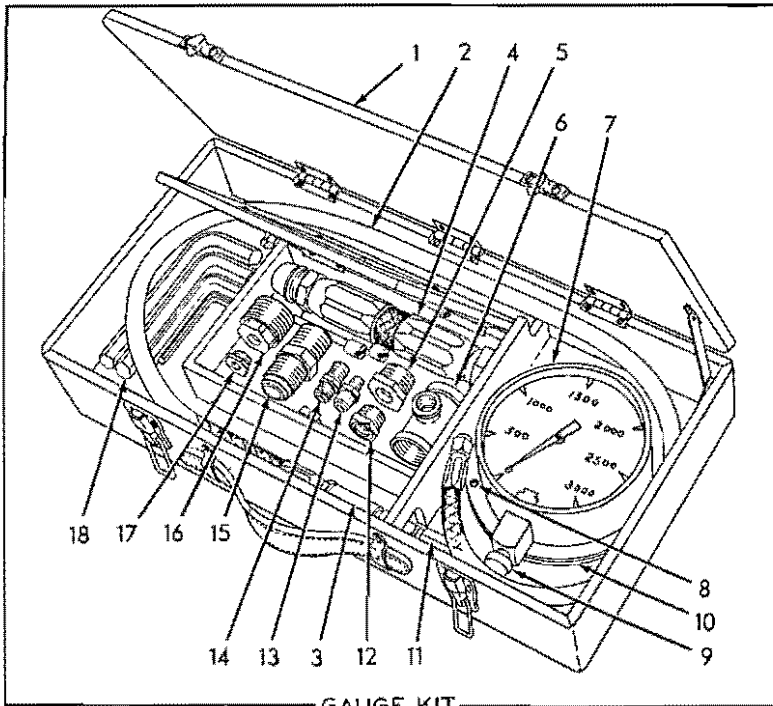
HYDRO-PNEUMATIC ACCUMULATOR

T-30925

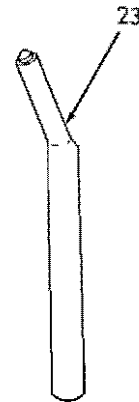
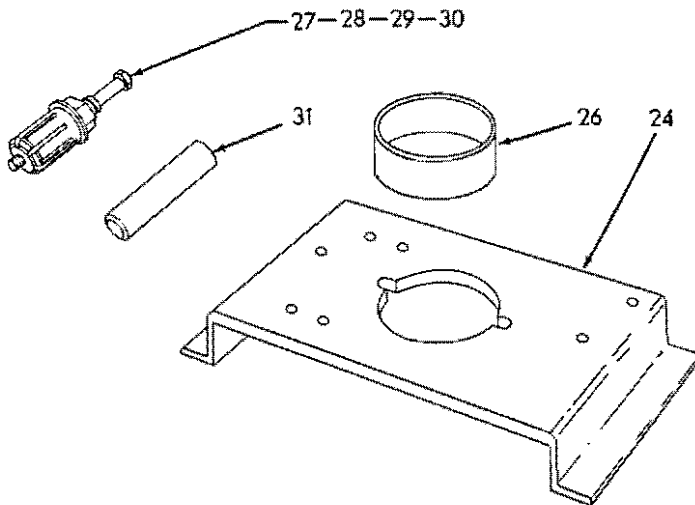
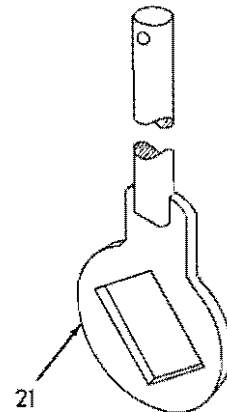
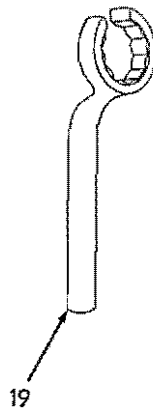
HYDRO-PNEUMATIC ACCUMULATOR

USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
-	73019666	-	ACCUMULATOR KIT (Consists of items 1 thru 13)
1	73020107	1	ACCUMULATOR ASSEMBLY (Serviced only as a unit)
	70901849	1	BUSHING, pipe reducing, 2"NPT to 3/4"NPT
	70916632	1	NIPPLE, pipe, 3/4"NPT
2	73019750	1	PLATE, accumulator mounting
	70915228	2	CAPSCREW, 3/8"NF x 1-1/4"
	70916383	2	CAPSCREW, 3/8"NF x 1-1/2"
	70911115	4	WASHER, plain, SAE std., 3/8"
	70904206	4	LOCKWASHER, 3/8"
	70911041	4	NUT, 3/8"NF
3	73019755	1	BRACKET, mounting
	70913249	4	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	4	LOCKWASHER, 1/2"
4	70625429	4	BLOCK, bracket mounting (Requires welding to install)
5	73019649	1	VALVE ASSEMBLY, selector (Consists of items 6 thru 9)
6	-----	1	HOUSING, valve (Not serviced separately)
7	-----	1	PLUNGER, valve (Not serviced separately)
	70916419	1	CAPSCREW, 1/2"NF x 3/4"
	70910244	1	WASHER, plain, SAE std., 1/2"
8	73023433	1	STUD, valve plunger (1/2" diam.)
	70910244	1	WASHER, plain, SAE std., 1/2"
	70911043	1	NUT, 1/2"NF
9	73023434	2	RING, plunger sealing
10	70090020	1	KNOB, valve control
11	73017959	1	HOSE ASSEMBLY, valve to tube (See page 6 for parts)
	70919269	1	ELBOW, flare type, 3/4" tube, 3/4"NPT
12	73019665	1	TUBE ASSEMBLY (Includes nuts) (Replaces standard raise TUBE 73019417)
13	73024099	1	STICKER, instruction



GAUGE KIT



SHOVEL TOOLS

T-27445

SHOVEL TOOLS

ITEM	PART NO.	QTY.	DESCRIPTION
-	-----	1	*GAUGE KIT, master (Consists of items 1 thru 18)
1	-----	1	* CASE, wooden
2	-----	1	* HOSE ASSEMBLY, gauge
3	70901764	1	COUPLING, pipe, 1/4"NPT
4	-----	1	*HOSE ASSEMBLY
5	70901840	1	BUSHING, pipe reducing (3/4"NPT to 1/4"NPT)
6	-----	1	* TEE, pipe (3/4"NPT ends x 1/4"NPT side)
7	-----	1	*GAUGE, pressure (3000 PSI)
8	70902559	3	SCREW, wood, rd-hd., #6 x 1/2"
9	70901722	1	ELBOW, street, 90°, 1/4"NPT
10	-----	1	* PAD, pressure gauge (rubber)
11	-----	1	* SNUBBER, pressure (Includes piston)
12	70901839	1	BUSHING, pipe reducing, 1/2"NPT to 1/4"NPT
13	70910171	1	CONNECTOR, flare type, 5/16" tube, 1/8"NPT male
14	70911317	1	CONNECTOR, flare type, 5/16" tube, 1/4"NPT male
15	70920714	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
16	70904270	1	BUSHING, pipe reducing, 1"NPT to 1/4"NPT
17	70901826	1	BUSHING, pipe reducing, 3/8"NPT to 1/4"NPT
18	-----	1	* WRENCH KIT, Allen
19	-----	1	WRENCH, flare nut (1-1/2" spacing) (Order from Owatonna Tool Co., their no. CSO-48)
20	73012743	1	WRENCH, spanner (open end)
21	73008880	1	WRENCH, spanner (box end)
22	{ -----	1	* TOOL, hose assembly, 1"
	{ -----	1	* TOOL, hose assembly, 3/4" (SAE)
23	-----	1	TOOL ASSEMBLY, tooth (Serviced only as a unit) (Order from Owatonna Tool Co., their no. AC-314)
24	-----	1	* FIXTURE, pump
25	73015528	1	DRIVER, bearing installation
26	-----	1	* RING, adapter, pump
27	-----	1	* PULLER ASSEMBLY, bearing (Includes items 28 thru 30)
28	-----	1	* BOLT, expander, bearing puller
	70913093	1	WASHER, plain
	70911051	1	NUT, jam, 1"NF
29	-----	1	* SLEEVE, expander bolt
30	73008421	1	CAPSCREW, bearing puller (3/8"NF x 5")
31	-----	1	* TOOL, spacer

* Parts indicated above have been discontinued

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70011100..613		70012992..537		70023633..17A		70034076..532		70035061..614	
70011259..618		70012992..553		70023633..659B		70034076..532		70035061..618	
70012238..613		70012992..558		70023755..468		70034076..539		70035067..108	
70012387..621		70012992..615		70023755..475		70034076..543		70035067..111	
70012389..621		70013044..613		70023755..553		70034076..544		70035067..117	
70012453..529		70013058..187		70023755..554		70034152..583		70035067..334	
70012453..526		70013058..243		70023755..613		70034265..271		70035067..407	
70012453..527		70013058..254		70023755..617		70034265..273		70035067..420	
70012453..456		70013058..258		70023755..269		70034268..271		70035067..424	
70012468..584		70013058..490		70023756..327		70034268..273		70035067..449	
70012526..224		70013058..493		70023756..323		70034269..271		70035067..479	
70012526..434		70013058..497		70023756..336		70034269..273		70035067..330	
70012526..483		70013058..569		70023756..613		70034304..271		70035067..348	
70012526..433		70013058..571		70028979..277		70034304..273		70035067..354	
70012526..433		70013058..572		70029563..618		70034440..483		70035067..364	
70012526..433		70013058..228		70030107..262		70034632..538		70035067..390	
70012561..419		70013058..253		70030123..262		70034632..542		70035067..480	
70012561..423		70013058..257		70030504..614		70034674..617		70035067..578	
70012561..443		70013058..263		70030965..613		70034696..618		70035068..403	
70012742..528		70013058..500		70031055..585		70035014..124		70035068..404	
70012762..329		70013058..613		70031337..201		70035014..446		70035068..407	
70012762..412		70013058..614		70031337..203		70035014..354		70035068..408	
70012762..438		70013058..235		70031337..199		70035014..365		70035068..411	
70012762..333		70013058..296		70031729..453		70035018..183		70035068..419	
70012767..15		70013058..304		70031729..455		70035018..181		70035068..423	
70012767..415		70013058..307		70031731..453		70035018..186		70035068..529	
70012767..426		70013059..243		70031731..455		70035018..254		70035068..249	
70012767..427		70013059..199		70032385..453		70035018..270		70035068..251	
70012767..428		70013059..368		70032385..455		70035018..272		70035068..300	
70012767..429		70013059..617		70032386..453		70035018..334		70035068..333	
70012767..430		70013207..614		70032386..455		70035018..411		70035068..349	
70012767..431		70013465..15		70032546..453		70035018..445		70035068..355	
70012767..443		70013465..15		70032546..455		70035018..479		70035068..395	
70012767..482		70013465..15		70032747..614		70035018..503		70035068..397	
70012767..15		70021537..614		70032748..614		70035018..511		70035068..399	
70012767..15		70021711..617		70032749..614		70035018..523		70035068..305	
70012767..17		700223176..199		70032751..614		70035018..524		70035068..307	
70012984..415		70023465..99		70032752..614		70035018..598		70035068..396	
70012984..426		70023465..102		70032753..614		70035018..292		70035068..403	
70012984..427		70023465..117		70032754..613		70035018..300		70035068..401	
70012984..428		70023465..125		70032762..614		70035018..330		70035068..659C	
70012984..429		70023465..415		70032764..614		70035018..333		70035073..111	
70012984..430		70023465..459		70032780..614		70035018..337		70035073..117	
70012984..431		70023465..467		70032834..598		70035018..338		70035073..334	
70012984..443		70023465..472		70032834..486		70035018..345		70035073..403	
70012984..17		70023465..475		70032944..614		70035018..377		70035073..404	
70012992..117		70023465..483		70032946..614		70035018..378		70035073..420	
70012992..152		70023465..228		70033043..583		70035018..381		70035073..437	
70012992..156		70023465..341		70033060..598		70035018..382		70035073..438	
70012992..159		70023465..385		70033060..486		70035018..505		70035073..439	
70012992..163		70023465..389		70033114..453		70035018..513		70035073..449	
70012992..167		70023465..602		70033114..455		70035018..515		70035073..479	
70012992..171		70023614..15		70033120..453		70035018..526		70035073..483	
70012992..175		70023614..17		70033120..455		70035018..527		70035073..493	
70012992..420		70023618..411		70033288..342		70035018..296		70035073..497	
70012992..424		70023618..415		70033288..441		70035018..304		70035073..499	
70012992..443		70023618..420		70033288..443		70035018..307		70035073..511	
70012992..459		70023618..449		70033288..446		70035061..99		70035073..528	
70012992..460		70023618..463		70033288..345		70035061..168		70035073..593	
70012992..463		70023618..483		70033391..613		70035061..183		70035073..320	
70012992..468		70023618..228		70033393..613		70035061..187		70035073..330	
70012992..472		70023618..341		70034014..574		70035061..181		70035073..378	
70012992..476		70023619..17		70034042..441		70035061..493		70035073..382	
70012992..477		70023633..267		70034042..443		70035061..494		70035073..395	
70012992..485		70023633..269		70034042..445		70035061..499		70035073..480	
70012992..590		70023633..584		70034043..441		70035061..276		70035073..513	
70012992..311		70023633..323		70034043..443		70035061..359		70035073..583	
70012992..313		70023633..618		70034043..445		70035061..363		70035073..400	
70012992..331		70023633..17		70034076..533		70035061..597		70035073..401	
70012992..486				70034076..532		70035061..611		70035073..659C	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70035159..274		70035236..547		70035439..223		70035979..90		70036039..351	
70035159..275		70035236..549		70035439..227		70035979..148		70036039..353	
70035159..291		70035236..611		70035439..243		70035979..152		70036203..165	
70035159..299		70035236..615		70035439..254		70035979..538		70036203..172	
70035159..308		70035236..617		70035439..258		70035979..575		70036203..359	
70035167..97		70035236..618		70035439..273		70035979..577		70036268..621	
70035167..112		70035244..129		70035439..245		70035979..537		70036283..614	
70035167..127		70035244..131		70035439..253		70035979..558		70036707..459	
70035167..131		70035244..271		70035439..257		70035979..579		70036707..472	
70035167..152		70035244..566		70035439..338		70036032..94		70036707..475	
70035167..209C		70035244..263		70035439..341		70036032..131		70036707..477	
70035167..115		70035244..324		70035439..359		70036032..152		70036707..479	
70035167..209		70035244..561		70035439..558		70036032..160		70036707..611	
70035167..269		70035244..613		70035440..15		70036032..164		70036707..613	
70035167..577		70035248..15		70035440..342		70036032..201		70036887..575	
70035167..367		70035248..125		70035440..345		70036032..199		70036887..579	
70035167..371		70035248..125		70035440..15		70036032..464		70036997..403	
70035167..579		70035248..415		70035525..93		70036032..538		70036997..249	
70035167..367		70035248..602		70035525..99		70036032..542		70036997..251	
70035167..371		70035248..15		70035525..101		70036032..566		70036997..251	
70035188..476		70035249..66		70035525..186		70036032..581		70036997..395	
70035188..614		70035249..274		70035711..193		70036032..257		70036997..400	
70035190..172		70035249..275		70035712..281		70036032..311		70037431..505	
70035190..280		70035249..329		70035712..291		70036032..313		70037450..159	
70035190..284		70035249..419		70035712..299		70036032..547		70037450..160	
70035190..288		70035249..424		70035712..348		70036032..550		70037450..163	
70035190..489		70035249..333		70035712..349		70036032..561		70037450..164	
70035190..490		70035249..351		70035712..354		70036032..565		70037450..167	
70035190..493		70035249..353		70035712..364		70036032..659B		70037450..171	
70035190..494		70035249..613		70035712..235A		70036034..97		70037450..172	
70035190..497		70035249..11		70035718..538		70036034..99		70037450..175	
70035190..499		70035250..66		70035733..15		70036034..101		70037450..254	
70035190..303		70035250..66		70035733..160		70036034..102		70037450..399	
70035190..359		70035250..329		70035733..164		70036034..108		70037461..349	
70035190..505		70035250..419		70035733..243		70036034..117		70037461..354	
70035190..515		70035250..424		70035733..327		70036034..127		70037573..468	
70035190..296		70035250..333		70035733..463		70036034..129		70037573..475	
70035196..614		70035250..351		70035733..479		70036034..131		70037676..611	
70035220..499		70035250..353		70035733..378		70036034..148		70037676..613	
70035220..367		70035250..613		70035733..382		70036034..152		70038203..459	
70035220..371		70035278..403		70035733..15		70036034..155		70038203..467	
70035220..367		70035278..404		70035733..605		70036034..156		70038203..471	
70035220..371		70035278..407		70035793..327		70036034..167		70038203..476	
70035221..211		70035278..408		70035793..323		70036034..172		70038203..531	
70035221..342		70035278..416		70035793..336		70036034..175		70038234..419	
70035221..415		70035278..390		70035814..323		70036034..183		70038234..601	
70035221..494		70035278..395		70035892..293		70036034..225		70040213..246	
70035221..542		70035278..395		70035892..295		70036034..115		70040214..246	
70035221..500		70035278..397		70035892..403		70036034..206		70040216..246	
70035221..553		70035278..399		70035892..408		70036034..566		70040218..246	
70035229..125		70035278..396		70035892..411		70036034..228		70040220..245	
70035229..420		70035278..400		70035892..249		70036034..257		70040221..245	
70035229..424		70035280..614		70035892..251		70036034..351		70040247..245	
70035229..449		70035306..477		70035892..291		70036034..353		70040272..621	
70035229..460		70035336..112		70035892..299		70036034..367		70040400..199	
70035229..467		70035336..127		70035892..303		70036034..377		70040475..327	
70035229..471		70035336..160		70035892..335		70036034..381		70040503..412	
70035229..476		70035336..168		70035892..297		70036034..399		70040517..159	
70035229..586		70035336..566		70035892..396		70036034..480		70040517..160	
70035229..587		70035336..348		70035892..396		70036034..537		70040517..164	
70035229..589		70035336..354		70035892..400		70036034..541		70040570..181	
70035229..335		70035336..364		70035910..161		70036034..550		70040736..621	
70035229..338		70035336..537		70035910..169		70036034..554		70040796..90	
70035236..281		70035336..541		70035910..176		70036034..561		70040796..94	
70035236..276		70035392..571		70035910..292		70036034..367		70040796..148	
70035236..291		70035392..330		70035910..300		70036039..99		70040796..155	
70035236..299		70035405..617		70035910..297		70036039..163		70040796..538	
70035236..359		70035420..463		70035910..304		70036039..171		70040796..542	
70035236..513		70035420..530		70035910..307		70036039..177		70040796..581	
70035236..515		70035422..467		70035916..525		70036039..566		70040796..558	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70040811..90		70043716..574		70044973..537		70049918..341		70051006..201	
70040811..94		70043769..621		70044973..541		70049918..308		70051006..203	
70040831..276		70043852..188		70044973..308		70049936..338		70051006..203	
70040851..534		70043953..188		70044976..614		70049988..160		70051006..199	
70040969..555		70043856..188		70044978..614		70049988..164		70051112..441	
70040973..555		70043860..188		70044979..614		70049988..168		70051121..441	
70040974..555		70043881..160		70044980..614		70049988..172		70051124..441	
70041017..279		70043881..168		70044982..614		70049988..249		70051257..323	
70041076..449		70043881..379		70044984..614		70049988..249		70051291..321	
70041250..224		70043881..399		70045143..646		70049988..251		70051311..147	
70041250..569		70043881..553		70045143..652		70049988..251		70051311..154	
70041250..572		70043886..223		70045174..364		70049988..359		70051352..531	
70041250..228		70043886..227		70045174..365		70049988..360		70051447..291	
70041250..347		70043991..188		70045253..295		70049988..553		70051447..299	
70041250..353		70044044..575		70045253..303		70049993..249		70051447..349	
70041250..367		70044044..577		70045295..159		70049993..251		70051447..355	
70041250..371		70044044..579		70045295..168		70049993..359		70051447..617	
70041250..367		70044211..555		70045295..245		70049993..379		70051257..3578	
70041250..367		70044249..165		70045524..17		70049993..658		70051496..254	
70041250..370		70044255..188		70046419..251		70050220..324		70051496..258	
70041250..371		70044256..188		70046419..364		70050257..566		70051496..329	
70041255..201		70044622..324		70046419..378		70050257..558		70051496..333	
70041262..558		70044741..279		70046419..379		70050265..293		70051513..249	
70041303..152		70044810..538		70046419..382		70050265..300		70051513..251	
70041303..254		70044810..537		70046419..383		70050265..297		70051513..359	
70041809..245		70044810..541		70046590..349		70050265..304		70051517..181	
70041877..280		70044810..541		70046590..354		70050267..292		70051623..445	
70041881..618		70044860..246		70047063..499		70050267..300		70051629..445	
70041882..617		70044861..246		70047063..505		70050267..296		70051634..443	
70041883..618		70044862..246		70047307..574		70050267..304		70051697..350	
70041915..485		70044875..476		70047381..561		70050267..307		70051697..351	
70041917..235A		70044957..613		70047381..565		70050276..320		70051715..235	
70041981..160		70044967..614		70047603..614		70050288..581		70051798..449	
70041981..164		70044968..613		70047352..145		70050291..569		70051919..441	
70041981..168		70044969..613		70047852..147		70050291..571		70051957..324	
70041981..175		70044970..614		70047852..558		70050292..243		70051958..324	
70041981..572		70044973..117		70048142..538		70050293..613		70051958..324	
70042121..277		70044973..152		70048142..542		70050357..329		70051959..445	
70042121..279		70044973..156		70048142..577		70050357..333		70051998..341	
70042430..407		70044973..161		70048142..581		70050433..403		70052016..193	
70042430..487		70044973..169		70048142..541		70050433..407		70052021..224	
70042430..349		70044973..176		70048145..108		70050433..395		70052021..228	
70042430..354		70044973..183		70048145..211		70050433..399		70052049..281	
70042430..364		70044973..187		70048145..542		70050434..395		70052062..324	
70042430..526		70044973..225		70048164..538		70050447..531		70052070..338	
70042430..527		70044973..193		70048164..324		70050510..503		70052071..338	
70042538..324		70044973..243		70048209..327		70050510..511		70052106..235	
70042572..94		70044973..420		70048209..323		70050510..523		70052118..323	
70042744..147		70044973..424		70048603..203		70050551..503		70052119..327	
70042744..151		70044973..459		70048606..203		70050551..511		70052119..323	
70042847..618		70044973..460		70048608..203		70050551..523		70052157..261	
70042852..279		70044973..472		70048676..659B		70050566..300		70052158..261	
70042873..445		70044973..476		70048679..443		70050566..305		70052160..261	
70042890..618		70044973..484		70048681..443		70050579..243		70052161..341	
70042898..445		70044973..485		70048698..284		70050594..125		70052166..263	
70042975..245		70044973..490		70048698..288		70050595..125		70052166..264	
70043000..614		70044973..493		70048704..617		70050608..621		70052168..261	
70043001..614		70044973..497		70048922..539		70050609..621		70052168..263	
70043002..614		70044973..569		70048922..543		70050610..621		70052168..263	
70043006..614		70044973..572		70048922..544		70050686..147		70052172..262	
70043330..538		70044973..590		70049105..323		70050686..155		70052174..261	
70043344..145		70044973..593		70049108..164		70050734..486		70052175..261	
70043344..148		70044973..595		70049108..171		70050735..486		70052176..261	
70043397..246		70044973..228		70049487..341		70050748..334		70052179..261	
70043422..453		70044973..245		70049769..258		70050748..245		70052181..263	
70043422..455		70044973..351		70049769..257		70050748..265		70052182..263	
70043470..245		70044973..353		70049918..274		70050748..351		70052183..261	
70043491..443		70044973..399		70049918..275		70050748..353		70052184..262	
70043646..460		70044973..480		70049918..291		70050767..199		70052225..281	
70043713..574		70044973..500		70049918..299		70050838..534		70052225..569	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70052225..571		70052791..547		70054890..443		70058407..615		70059194..251	
70052253..437		70052791..549		70054890..446		70058572..338		70059195..251	
70052371..621		70052917..538		70054890..345		70058614..408		70059242..231	
70052374..281		70052917..542		70055234..152		70058691..240		70059243..231	
70052408..341		70052922..330		70055234..156		70058695..263		70059244..231	
70052426..342		70052949..505		70055234..566		70058707..337		70059245..231	
70052444..338		70052976..330		70055278..262		70058717..262		70059294..188	
70052444..341		70052976..333		70055349..292		70058722..337		70059314..334	
70052459..359		70052976..617		70055349..300		70058730..231		70059314..330	
70052505..484		70052977..330		70055416..160		70058738..267		70059315..334	
70052505..324		70052977..333		70055416..163		70058739..267		70059315..330	
70052527..482		70052979..329		70055416..171		70058741..267		70059324..329	
70052543..345		70052979..333		70055416..172		70058793..235		70059328..283	
70052545..345		70053005..379		70055416..175		70058819..263		70059328..287	
70052564..379		70053037..186		70055529..611		70058825..338		70059332..291	
70052564..383		70053038..186		70055536..583		70058827..539		70059332..299	
70052566..377		70053077..186		70055589..539		70058828..539		70059382..419	
70052566..381		70053096..148		70055589..543		70058831..539		70059385..445	
70052569..167		70053096..151		70055589..544		70058841..337		70059386..445	
70052583..377		70053173..254		70055604..223		70058842..337		70059387..445	
70052583..381		70053173..257		70055604..227		70058843..337		70059398..419	
70052584..377		70053243..403		70055676..90		70058853..341		70059403..438	
70052584..381		70053243..407		70056099..185		70058867..239		70059403..439	
70052592..456		70053243..249		70056099..181		70058875..337		70059404..437	
70052601..379		70053243..395		70056100..185		70058916..320		70059404..439	
70052611..342		70053243..403		70056100..181		70058936..254		70059479..438	
70052612..342		70053244..403		70056166..437		70058936..258		70059491..437	
70052616..363		70053244..407		70056320..243		70058937..621		70059492..437	
70052641..360		70053244..395		70056320..228		70058940..384		70059493..437	
70052642..403		70053244..400		70056407..348		70058994..530		70059495..437	
70052642..407		70053277..579		70056585..446		70059007..531		70059496..437	
70052643..292		70053421..420		70056514..449		70059010..531		70059497..437	
70052643..379		70053421..424		70056721..484		70059012..531		70059532..484	
70052643..383		70053423..621		70057267..262		70059017..530		70059587..419	
70052643..297		70053426..621		70057268..262		70059024..321		70059587..423	
70052644..377		70053616..311		70057269..262		70059025..321		70059589..283	
70052644..381		70053616..313		70057270..262		70059026..321		70059589..287	
70052662..292		70053616..235		70057281..277		70059028..349		70059599..449	
70052662..379		70053616..307		70057407..307		70059028..355		70059617..443	
70052662..383		70053617..291		70057500..254		70059029..324		70059618..443	
70052662..297		70053617..299		70057517..416		70059034..323		70059619..443	
70052662..658		70053619..193		70057629..263		70059035..327		70059698..532	
70052669..403		70053667..185		70057639..263		70059035..323		70059699..419	
70052669..403		70053667..181		70057784..583		70059036..323		70059699..423	
70052669..404		70053667..486		70057836..349		70059044..320		70059701..419	
70052669..408		70053670..617		70057836..355		70059048..327		70059701..423	
70052669..385		70053899..243		70057836..359		70059048..323		70059704..419	
70052669..387		70053926..249		70057839..359		70059050..323		70059705..420	
70052669..395		70053926..251		70057841..349		70059051..336		70059705..424	
70052669..399		70053926..251		70057841..354		70059063..384		70059713..449	
70052669..396		70053926..251		70057843..359		70059064..320		70059730..449	
70052669..396		70054034..313		70057846..359		70059070..397		70059731..449	
70052669..400		70054034..313		70057848..359		70059070..399		70059735..449	
70052669..401		70054130..310		70057851..349		70059071..397		70059736..449	
70052669..401		70054130..312		70057851..354		70059077..397		70059737..449	
70052671..403		70054236..377		70057852..359		70059077..399		70059738..449	
70052671..404		70054236..381		70057927..464		70059081..395		70059739..449	
70052671..404		70054304..397		70057984..335		70059081..395		70059740..449	
70052671..408		70054305..357A		70057984..349		70059095..264		70059741..449	
70052671..408		70054305..357B		70057984..354		70059096..384		70059742..449	
70052671..408		70054362..243		70058052..617		70059096..387		70059771..356	
70052671..396		70054363..240		70058153..617		70059097..385		70059772..356	
70052671..400		70054364..240		70058054..617		70059097..387		70059773..356	
70052701..147		70054374..489		70058058..617		70059098..385		70059775..356	
70052701..151		70054374..494		70058135..276		70059113..385		70059776..356	
70052702..148		70054374..497		70058149..336		70059177..324		70059776..357	
70052702..151		70054459..240		70058274..611		70059189..249		70059776..357	
70052747..249		70054461..249		70058308..384		70059189..251		70059777..356	
70052782..547		70054890..342		70058313..251		70059191..251		70059778..356	
70052782..549		70054890..441		70058321..246		70059193..251		70059778..357	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70059779..356		70064531..420		70065468..439		70067535..338		70068865..173	
70059782..356		70064531..438		70065512..276		70067543..274		70068866..173	
70059782..357		70064531..439		70065577..119		70067543..275		70068869..173	
70059783..329		70064531..463		70065577..121		70067543..333		70068875..196	
70059783..333		70064531..479		70065588..528		70067566..243		70068876..196	
70059813..267		70064531..483		70065588..354		70067566..611		70068878..196	
70059813..269		70064531..487		70065588..364		70067578..320		70068879..196	
70059857..615		70064531..489		70065613..125		70067605..320		70068881..196	
70059860..613		70064531..490		70065691..395		70067634..385		70068911..173	
70059861..615		70064531..493		70065691..400		70067634..387		70068911..393	
70059868..615		70064531..494		70065692..403		70067637..396		70069072..345	
70059869..613		70064531..497		70065692..395		70067649..395		70069142..396	
70059871..615		70064531..499		70065692..400		70067649..400		70069164..196	
70059872..615		70064531..503		70065696..395		70067680..320		70069214..263	
70059876..269		70064531..511		70065785..108		70067704..262		70069243..279	
70059881..269		70064531..523		70065878..438		70067884..223		70069243..283	
70059883..359		70064531..524		70065936..602		70067884..223		70069317..580	
70060660..108		70064531..528		70065946..195		70067884..227		70069327..338	
70060660..112		70064531..529		70066068..449		70067884..227		70069328..337	
70060668..384		70064531..593		70066089..397		70067892..569		70069328..341	
70060689..225		70064531..598		70066251..196		70067902..186		70069339..307	
70060770..384		70064531..228		70066252..196		70067902..601		70069349..173	
70060772..384		70064531..345		70066253..195		70067913..569		70069355..396	
70060774..384		70064531..351		70066255..196		70067913..572		70069357..279	
70060774..385		70064531..377		70066260..538		70067914..569		70069358..279	
70060774..387		70064531..397		70066261..194		70067914..571		70069359..277	
70060806..602		70064531..480		70066369..569		70067916..569		70069366..284	
70060887..453		70064531..505		70066395..396		70067916..571		70069366..288	
70060887..455		70064531..513		70066397..396		70067918..569		70069367..280	
70060933..437		70064531..515		70066399..403		70067919..569		70069368..277	
70061087..613		70064531..526		70066399..396		70067923..569		70069369..277	
70061088..613		70064531..527		70066399..400		70067923..571		70069370..277	
70061526..415		70064531..547		70066418..396		70067924..569		70069370..279	
70061554..377		70064531..549		70066467..581		70067924..571		70069373..277	
70061554..381		70064531..578		70066517..195		70067932..569		70069374..287	
70061631..438		70064531..583		70066554..347		70067937..534		70069377..287	
70061631..291		70064531..597		70066596..330		70067962..235		70069378..279	
70061631..299		70064531..671		70066661..590		70068157..365		70069379..287	
70061655..228		70064531..611		70066662..590		70068157..547		70069380..287	
70061656..224		70064531..615		70066692..441		70068157..550		70069381..283	
70061656..228		70064531..396		70066794..531		70068231..183		70069381..287	
70061661..416		70064764..411		70066862..577		70068231..181		70069382..279	
70061671..224		70064810..125		70066862..574		70068231..186		70069382..283	
70061671..228		70064810..411		70066872..197		70068320..399		70069383..279	
70061689..224		70064810..415		70066873..197		70068323..613		70069386..283	
70061689..415		70064810..459		70066874..197		70068324..613		70069386..287	
70061689..426		70064810..459		70066875..197		70068326..613		70069390..279	
70061689..427		70064810..460		70066876..197		70068329..613		70069400..283	
70061689..428		70064810..467		70066941..420		70068388..611		70069400..287	
70061689..429		70064810..471		70066941..424		70068388..615		70069404..307	
70061689..430		70064810..472		70067110..577		70068388..617		70069423..279	
70061689..431		70064810..475		70067110..574		70068389..404		70069425..287	
70061689..483		70064810..476		70067112..577		70068389..408		70069427..283	
70061689..529		70064810..479		70067112..574		70068389..249		70069427..287	
70061689..228		70064810..483		70067137..445		70068389..251		70069428..277	
70061689..526		70064810..586		70067139..445		70068389..615		70069434..277	
70062098..345		70064810..587		70067141..445		70068399..576		70069435..277	
70062164..263		70064810..589		70067147..263		70068404..577		70069436..277	
70063889..105		70064810..228		70067151..263		70068405..577		70069437..280	
70063889..105		70064810..602		70067171..261		70068480..611		70069441..337	
70063890..105		70064882..261		70067177..203		70068487..611		70069441..341	
70063891..105		70064905..531		70067251..443		70068488..611		70069442..277	
70063987..251		70064906..531		70067253..443		70068489..611		70069442..279	
70064531..99		70064908..531		70067293..443		70068490..611		70069443..277	
70064531..111		70065021..108		70067348..341		70068623..193		70069443..281	
70064531..117		70065053..90		70067515..251		70068832..534		70069443..276	
70064531..172		70065112..359		70067518..341		70068959..173		70069443..279	
70064531..183		70065241..503		70067519..341		70068861..173		70069444..276	
70064531..186		70065242..503		70067520..341		70068862..173		70069445..284	
70064531..411		70065461..566		70067534..341		70068864..173		70069445..288	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70069446..284		70070467..408		70071210..618		70073832..335		70075765..111	
70069446..288		70070467..523		70071211..618		70073853..590		70075769..196	
70069447..284		70070467..330		70071212..618		70073906..245		70075770..196	
70069447..287		70070467..363		70071213..617		70073927..246		70075771..194	
70069448..284		70070467..515		70071215..618		70074065..236		70075853..537	
70069448..287		70070467..583		70071217..617		70074065..243		70075854..537	
70069449..279		70070469..101		70071218..617		70074065..253		70075865..617	
70069450..283		70070469..102		70071219..617		70074065..257		70075870..215	
70069450..287		70070469..102		70071220..618		70074066..253		70075870..219	
70069451..277		70070469..111		70071221..618		70074066..257		70075905..267	
70069452..277		70070469..114		70071225..618		70074142..533		70075950..267	
70069453..283		70070469..125		70071226..618		70074161..419		70075950..269	
70069453..287		70070469..186		70071227..618		70074162..419		70075955..359	
70069468..307		70070469..411		70071228..618		70074173..429		70076124..385	
70069477..307		70070469..412		70071229..617		70074174..429		70076322..236	
70069518..349		70070469..441		70071452..618		70074245..245		70076322..253	
70069518..354		70070469..489		70071800..173		70074292..439		70076322..257	
70069579..320		70070469..490		70072366..15		70074335..601		70076322..257	
70069641..583		70070469..493		70072366..420		70074387..539		70076460..269	
70069657..209C		70070469..494		70072366..445		70074388..537		70076461..269	
70069657..206		70070469..497		70072366..449		70074388..578		70076469..547	
70069657..209		70070469..499		70072366..320		70074399..601		70076469..550	
70069674..562		70070469..511		70072366..15		70074452..555		70076470..547	
70069674..557		70070469..523		70072366..15		70074452..559		70076522..569	
70069674..565		70070469..524		70072366..17		70074452..574		70076522..572	
70069679..273		70070469..593		70072366..17		70074452..576		70076572..547	
70069693..251		70070469..595		70072396..527		70074485..441		70076572..549	
70069743..547		70070469..348		70072438..175		70074486..441		70076668..105	
70069770..262		70070469..349		70072438..383		70074487..441		70076684..225	
70069816..415		70070469..354		70072438..397		70074489..441		70076684..228	
70069996..173		70070469..354		70072595..463		70074574..159		70076685..225	
70070114..617		70070469..364		70072595..528		70074574..163		70076685..228	
70070161..345		70070469..377		70072595..385		70074574..167		70076726..329	
70070176..617		70070469..378		70072595..387		70074574..171		70076726..333	
70070192..614		70070469..381		70073033..173		70074577..534		70076839..262	
70070272..411		70070469..382		70073034..379		70074579..534		70076840..307	
70070272..412		70070469..390		70073068..108		70074633..188		70076846..292	
70070272..468		70070469..500		70073169..443		70074635..188		70076846..300	
70070272..475		70070469..513		70073222..503		70074638..188		70076846..307	
70070282..483		70070469..515		70073222..511		70074679..231		70077174..618	
70070285..225		70070469..526		70073225..503		70074740..443		70077241..315	
70070285..415		70070469..531		70073225..511		70074814..281		70077279..537	
70070285..426		70070590..459		70073308..416		70074815..281		70077285..441	
70070285..427		70070590..467		70073424..412		70074817..281		70077286..441	
70070285..428		70070590..471		70073424..439		70074818..276		70077287..441	
70070285..429		70070590..475		70073480..554		70074822..276		70077467..609	
70070285..430		70070792..613		70073539..224		70074824..283		70077471..607	
70070285..431		70070836..48		70073539..227		70074838..276		70077669..419	
70070285..464		70070836..15		70073626..245		70074841..281		70077680..583	
70070285..228		70070836..17		70073733..281		70074842..276		70077687..583	
70070299..372		70070861..467		70073733..276		70074960..487		70077754..446	
70070299..15		70070861..471		70073735..621		70075203..235		70077765..609	
70070400..412		70070935..48		70073738..281		70075322..547		70077767..609	
70070400..427		70070935..15		70073760..281		70075390..271		70077783..609	
70070400..429		70070935..17		70073761..276		70075391..271		70077888..532	
70070400..431		70070960..187		70073764..342		70075398..283		70077896..188	
70070400..434		70070960..236		70073765..345		70075400..337		70077897..188	
70070400..482		70070960..243		70073771..277		70075429..537		70077898..188	
70070403..407		70070960..263		70073777..287		70075432..324		70077899..188	
70070403..419		70070960..368		70073808..281		70075434..324		70077900..185	
70070403..528		70070960..369		70073808..276		70075471..198		70077900..181	
70070403..349		70071014..441		70073809..203		70075535..541		70077919..185	
70070403..390		70071113..479		70073809..538		70075535..579		70077919..181	
70070467..94		70071113..586		70073809..577		70075567..443		70077920..188	
70070467..99		70071113..587		70073809..579		70075756..249		70077977..608	
70070467..107		70071113..589		70073822..335		70075758..249		70077982..608	
70070467..148		70071205..618		70073823..335		70075760..293		70078300..662	
70070467..151		70071206..618		70073824..335		70075760..297		70078314..267	
70070467..329		70071207..618		70073825..341		70075762..292		70078314..269	
70070467..404		70071209..618		70073831..335		70075762..297		70078314..12	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70078314..13		70078967..176		70080367..292		70081672..168		70082678..227	
70078314..13A		70078967..378		70080367..300		70081672..175		70082613..206	
70078402..292		70078971..453		70080367..296		70081742..15		70082613..209	
70078402..300		70078971..455		70080367..304		70081742..15		70082667..621	
70078402..296		70078984..446		70080882..292		70081742..15		70082719..412	
70078402..304		70078985..446		70080882..300		70081742..15		70082726..324	
70078407..583		70078990..385		70080882..296		70081786..267		70082727..324	
70078482..611		70079043..147		70080882..304		70081795..185		70082741..412	
70078482..615		70079043..151		70080939..292		70081795..181		70082770..243	
70078497..585		70079044..147		70080939..296		70081796..185		70082781..347	
70078508..585		70079044..151		70080943..307		70081796..181		70082781..353	
70078557..273		70079201..534		70080952..585		70081814..193		70082785..324	
70078620..159		70079203..385		70080990..254		70081837..267		70082810..347	
70078620..163		70079208..385		70080990..257		70081342..348		70082810..353	
70078620..167		70079212..385		70081119..175		70081861..348		70082810..367	
70078620..171		70079234..281		70081132..163		70081867..547		70082810..371	
70078620..249		70079256..281		70081132..167		70081867..549		70082811..347	
70078620..251		70079356..13A		70081132..171		70081928..269		70082811..353	
70078620..377		70079372..359		70081154..571		70082013..224		70082811..367	
70078624..493		70079421..360		70081199..283		70082013..367		70082811..371	
70078630..493		70079489..232		70081200..283		70082013..370		70082811..367	
70078630..497		70079497..265		70081201..283		70082014..224		70082811..371	
70078630..499		70079534..584		70081202..283		70082016..324		70082812..347	
70078632..493		70079535..584		70081214..181		70082017..324		70082829..235	
70078632..497		70079536..583		70081214..186		70082067..299		70082834..396	
70078632..499		70079540..583		70081214..186		70082067..303		70082875..161	
70078667..246		70079546..453		70081267..284		70082134..347		70082875..169	
70078705..610		70079546..455		70081285..307		70082139..239		70082875..176	
70078742..295		70079548..453		70081300..378		70082140..239		70082875..308	
70078742..291		70079658..411		70081300..379		70082148..239		70082884..487	
70078742..299		70079659..411		70081300..382		70082178..553		70082885..487	
70078742..303		70079660..449		70081337..227		70082189..107		70082891..347	
70078742..307		70079661..411		70081341..404		70082189..111		70082905..347	
70078810..159		70079667..31		70081341..396		70082189..127		70082905..353	
70078810..159		70079678..231		70081341..400		70082189..129		70082905..367	
70078810..159		70079751..211		70081343..295		70082189..131		70082905..371	
70078810..160		70079751..206		70081343..291		70082206..185		70082905..367	
70078810..163		70079762..232		70081359..224		70082206..181		70082905..371	
70078810..164		70079763..231		70081359..228		70082239..148		70082911..245	
70078810..165		70079771..261		70081404..547		70082245..148		70082915..427	
70078810..167		70079772..261		70081404..549		70082371..503		70082915..429	
70078810..157		70079773..261		70081405..446		70082372..533		70082915..431	
70078810..168		70079887..584		70081406..446		70082391..240		70082915..434	
70078810..168		70080043..585		70081423..249		70082425..489		70082915..433	
70078810..171		70080052..585		70081423..251		70082441..107		70082916..547	
70078810..171		70080097..275		70081437..396		70082441..111		70082917..427	
70078810..172		70080166..292		70081440..175		70082441..114		70082917..429	
70078810..175		70080166..300		70081443..175		70082441..117		70082917..431	
70078810..177		70080166..296		70081505..292		70082441..104		70082921..426	
70078810..293		70080166..304		70081505..297		70082442..89		70082925..427	
70078810..377		70080166..307		70081514..307		70082442..93		70082926..427	
70078810..378		70080197..159		70081526..173		70082442..97		70082936..347	
70078810..381		70080197..167		70081529..292		70082442..99		70082936..353	
70078810..382		70080197..175		70081532..379		70082442..101		70082937..185	
70078810..399		70080207..511		70081533..159		70082442..104		70082937..347	
70078810..297		70080207..523		70081533..173		70082443..105		70082937..353	
70078810..307		70080258..661		70081534..378		70082444..105		70082937..367	
70078810..659B		70080274..590		70081534..382		70082449..104		70082937..370	
70078857..453		70080459..107		70081535..378		70082464..239		70082981..420	
70078858..453		70080459..111		70081542..379		70082487..104		70082982..420	
70078861..279		70080459..114		70081545..293		70082488..104		70083042..547	
70078862..284		70080487..345		70081556..300		70082489..104		70083066..379	
70078862..288		70080488..341		70081593..167		70082490..104		70083134..246	
70078862..276		70080499..378		70081600..553		70082491..104		70083135..245	
70078864..277		70080499..382		70081614..223		70082492..104		70083136..246	
70078866..531		70080513..359		70081614..227		70082493..104		70083144..245	
70078938..396		70080514..359		70081619..168		70082502..239		70083146..245	
70078926..325		70080669..530		70081619..175		70082504..239		70083149..245	
70078967..160		70080758..105		70081627..228		70082505..104		70083170..193	
70078967..169		70080818..181		70081672..160		70082608..223		70083209..446	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70083212..441		70083540..223		70083894..595		70084474..382		70085189..593	
70083215..243		70083542..223		70083915..125		70084507..485		70085189..595	
70083261..503		70083573..291		70083916..489		70084518..198		70085193..593	
70083261..511		70083573..299		70083917..124		70084520..199		70085193..595	
70083262..503		70083595..262		70083918..125		70084521..201		70085224..593	
70083262..511		70083598..292		70083919..125		70084521..199		70085224..595	
70083263..503		70083598..300		70083924..571		70084522..201		70085239..520	
70083263..511		70083602..490		70083933..415		70084522..199		70085275..590	
70083265..377		70083603..490		70083939..489		70084581..467		70085365..459	
70083265..381		70083603..493		70083939..494		70084581..471		70085365..467	
70083269..569		70083603..497		70083955..125		70084593..443		70085365..471	
70083270..243		70083615..295		70083956..243		70084600..411		70085365..476	
70083276..350		70083615..291		70083964..124		70084610..254		70085447..593	
70083281..159		70083615..299		70083979..356		70084612..467		70085447..595	
70083283..265		70083616..267		70083981..356		70084612..471		70085453..601	
70083284..537		70083617..453		70083982..356		70084643..412		70085497..593	
70083296..557		70083617..455		70083983..356		70084654..253		70085498..593	
70083309..175		70083619..270		70083984..147		70084655..460		70085498..595	
70083310..175		70083620..272		70083987..558		70084655..476		70085559..609	
70083314..487		70083623..453		70083988..558		70084676..254		70085568..467	
70083333..175		70083623..455		70083989..558		70084678..254		70085569..467	
70083339..378		70083634..348		70083990..558		70084679..254		70085571..581	
70083343..187		70083634..6		70083995..377		70084694..477		70085573..467	
70083343..181		70083648..377		70083999..243		70084734..412		70085616..231	
70083380..223		70083648..381		70084002..348		70084739..459		70085624..597	
70083382..176		70083650..377		70084002..6		70084757..476		70085627..597	
70083385..161		70083650..381		70084004..107		70084758..476		70085636..231	
70083390..438		70083658..235		70084006..107		70084773..482		70085657..585	
70083390..439		70083665..224		70084011..107		70084776..483		70085658..585	
70083399..569		70083676..235		70084029..503		70084863..348		70085659..585	
70083399..572		70083683..537		70084029..511		70084867..347		70085680..549	
70083408..437		70083683..541		70084029..523		70084875..609		70085740..511	
70083414..558		70083708..235		70084032..348		70084876..609		70085783..553	
70083415..557		70083710..569		70084032..353		70084877..609		70085877..295	
70083416..557		70083710..572		70084032..6		70084878..609		70085877..291	
70083417..147		70083745..403		70084065..245		70084879..609		70085877..299	
70083419..148		70083745..395		70084065..253		70084880..609		70085877..303	
70083420..147		70083745..400		70084065..257		70084891..583		70085878..295	
70083421..127		70083750..395		70084118..90		70084894..348		70085878..291	
70083422..148		70083751..403		70084119..89		70084895..547		70085878..299	
70083422..155		70083751..396		70084142..585		70084895..550		70085878..299	
70083435..223		70083751..400		70084150..601		70084897..105		70085878..303	
70083447..569		70083757..300		70084177..590		70084899..105		70085918..269	
70083455..377		70083778..15		70084193..224		70084902..145		70085927..269	
70083476..279		70083778..17		70084193..227		70084907..347		70085957..482	
70083477..279		70083782..378		70084220..601		70084919..608		70086238..185	
70083478..279		70083782..382		70084222..235		70084920..609		70086436..463	
70083479..279		70083784..615		70084227..601		70084921..610		70086447..453	
70083484..538		70083785..615		70084237..575		70084925..607		70086533..453	
70083490..225		70083786..615		70084238..579		70084974..347		70086546..254	
70083492..538		70083792..337		70084239..575		70084978..476		70086750..127	
70083493..538		70083798..378		70084239..577		70084979..460		70086770..193	
70083501..345		70083798..382		70084239..579		70084979..467		70086771..193	
70083503..345		70083802..379		70084265..246		70084979..471		70086793..147	
70083504..342		70083803..378		70084283..583		70084979..476		70086793..155	
70083505..345		70083804..351		70084284..583		70084988..460		70085947..580	
70083506..345		70083805..395		70084285..621		70084988..476		70086961..477	
70083507..342		70083826..378		70084301..320		70084989..459		70086963..145	
70083509..341		70083826..382		70084328..269		70085015..231		70086967..145	
70083511..345		70083827..395		70084351..267		70085016..609		70086977..145	
70083515..345		70083830..490		70084384..477		70085026..482		70086978..107	
70083516..345		70083832..490		70084392..181		70085038..385		70086979..235A	
70083517..345		70083836..490		70084394..245		70085042..529		70086982..108	
70083518..342		70083838..487		70084413..459		70085050..232		70086982..112	
70083519..243		70083859..338		70084413..467		70085058..477		70086983..145	
70083524..235		70083862..489		70084413..471		70085065..231		70087317..147	
70083526..243		70083866..307		70084413..475		70085086..232		70087017..154	
70083528..243		70083868..489		70084432..341		70085087..476		70087017..6	
70083538..224		70083893..593		70084432..345		70085140..467		70087026..441	
70083539..223		70083894..593		70084474..378		70085140..471		70087027..441	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70087359..154		70087849..587		70089024..608		70089639..608		70090645..281	
70087064..154		70087849..589		70089025..608		70089641..547		70090652..237	
70087982..558		70087366..493		70089026..608		70089642..547		70090652..263	
70087989..464		70087867..493		70089027..607		70089651..485		70090655..356	
70087390..464		70087369..227		70089034..265		70089652..486		70090655..357	
70087100..351		70087870..227		70089035..609		70089654..549		70090685..200	
70087101..89		70087978..111		70089102..609		70089659..524		70090687..660	
70087102..89		70087879..111		70089106..610		70089708..621		70090722..553	
70087103..89		70087397..586		70089107..206		70089716..348		70090747..224	
70087104..464		70087897..589		70089107..209		70089716..353		70090760..438	
70087105..463		70087900..148		70089107..209E		70089716..6		70090767..336	
70087106..463		70087902..557		70089108..610		70089720..231		70090867..464	
70087142..154		70087907..586		70089109..608		70089721..231		70090869..295	
70087143..155		70087907..589		70089129..15		70089722..231		70090869..291	
70087158..155		70087915..557		70089129..15		70089729..348		70090870..484	
70087159..181		70087949..553		70089138..438		70089729..354		70090893..523	
70087159..486		70087968..112		70089147..537		70089735..354		70090901..154	
70087228..90		70087968..127		70089147..541		70089794..430		70090989..145	
70087313..549		70087969..147		70089152..537		70089795..431		70090990..145	
70087317..108		70088038..201		70089152..541		70089796..431		70090991..145	
70087347..235A		70088038..203		70089182..377		70089814..271		70090993..145	
70087472..111		70088044..460		70089192..243		70089814..273		70091046..108	
70087472..511		70088044..476		70089229..467		70089827..271		70091046..112	
70087534..351		70088115..587		70089229..471		70089827..273		70091046..127	
70087555..529		70088116..587		70089229..475		70089829..295		70091046..538	
70087565..493		70088129..587		70089230..467		70089829..291		70091053..94	
70087567..493		70088130..587		70089230..471		70089829..299		70091063..593	
70087600..176		70088350..99		70089230..475		700898379..211		70091063..595	
70087614..169		70088357..145		70089231..467		700898379..206		70091164..416	
70087518..487		70088428..177		70089231..471		70089894..206		70091177..415	
70087619..167		70088495..239		70089231..475		70089894..209		70091178..415	
70087623..181		70088500..240		70089250..111		70089894..209E		70091181..201	
70087624..175		70088549..235		70089263..483		70089914..228		70091304..494	
70087626..181		70088556..604		70089264..483		70089915..593		70091306..494	
70087635..377		70088559..485		70089290..511		70089916..593		70091420..387	
70087636..175		70088561..235		70089292..577		70089921..593		70091463..236	
70087639..167		70088564..235		70089301..325		70089922..593		70091490..240	
70087628..175		70088560..485		70089308..485		70089964..513		70091491..111	
70087673..163		70088709..533		70089327..480		70089971..112		70091491..117	
70087573..167		70088721..533		70089336..511		70089971..127		70091492..94	
70087573..171		70088722..324		70089336..523		70089971..131		70091492..102	
70087674..351		70088723..324		70089432..607		70089991..486		70091513..261	
70087678..439		70088736..356		70089481..463		70089992..486		70091540..104	
70087682..175		70088736..357		70089482..463		70090020..381		70091555..263	
70087583..175		70088819..460		70089483..227		70090020..669		70091561..263	
70087685..553		70088819..463		70089492..227		70090034..111		70091562..249	
70087586..39		70088819..468		70089556..494		70090035..112		70091572..341	
70087687..439		70088819..472		70089556..500		70090036..112		70091575..261	
70087692..439		70088819..477		70089576..483		70090037..112		70091581..262	
70087593..439		70088820..463		70089579..350		70090038..93		70091631..411	
70087694..439		70088820..463		70089583..348		70090039..93		70091662..412	
70087695..439		70088820..468		70089583..354		70090041..93		70091662..412	
70087698..167		70088820..472		70089584..610		70090042..93		70091678..293	
70087700..167		70088820..477		70089585..610		70090043..94		70091736..186	
70087700..173		70088874..437		70089587..610		70090043..102		70091759..415	
70087702..351		70088999..324		70089589..523		70090044..112		70091761..415	
70087707..235A		70088905..459		70089601..494		70090069..597		70091765..415	
70087719..228		70088911..609		70089604..211		70090070..597		70091772..186	
70087728..228		70088930..300		70089604..206		70090070..597		70091790..598	
70087761..464		70088932..300		70089611..349		70090072..467		70091805..598	
						70090095..395			
70087762..419		70088934..292		70089611..354		70090396..395		70091819..93	
70087774..228		70088936..292		70089611..364		70090436..167		70091819..101	
70087788..228		70088938..292		70089612..349		70090465..263		70091819..111	
70087805..228		70088940..300		70089612..354		70090487..505		70091835..593	
70087806..228		70088976..608		70089612..364		70090498..464		70091835..595	
70087818..148		70088979..609		70089616..348		70090503..227		70091855..175	
70087819..127		70088980..608		70089616..354		70090511..475		70091855..177	
70087837..127		700889020..607		70089616..364		70090517..377		70091855..400	
70087938..411		700889022..607		70089629..547		70090518..377		70091862..295	
70087849..586		700889023..608		70089629..549		70090548..547		70091862..291	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70091862..299		70092742..593		70093414..589		70094253..507		70094580..101	
70091862..303		70092742..595		70093431..449		70094254..507		70094580..102	
70091862..553		70092746..249		70093516..129		70094255..507		70094625..571	
70091862..615		70092780..494		70093516..6		70094256..507		70094630..579	
70091862..307		70092793..203		70093583..225		70094257..507		70094635..420	
70091862..659B		70092802..323		70093586..428		70094258..507		70094636..420	
70091869..231		70092806..416		70093616..587		70094259..507		70094637..420	
70091927..93		70092847..601		70093641..597		70094260..508		70094642..203	
70091928..93		70092868..472		70093642..597		70094261..507		70094665..203	
70091931..111		70092871..160		70093651..597		70094261..508		70094668..101	
70091932..112		70092871..164		70093652..597		70094262..507		70094668..102	
70091933..93		70092871..168		70093654..597		70094263..508		70094689..377	
70091934..93		70092871..172		70093663..597		70094264..508		70094689..381	
70091952..475		70092878..160		70093664..597		70094265..508		70094695..455	
70091954..186		70092878..164		70093685..160		70094266..508		70094698..194	
70091962..186		70092881..159		70093685..164		70094267..508		70094699..194	
70091963..186		70092881..160		70093685..168		70094268..507		70094715..194	
70091976..503		70092884..159		70093685..172		70094269..507		70094723..455	
70091976..511		70092886..172		70093713..276		70094270..507		70094727..455	
70091976..523		70092890..557		70093749..168		70094271..506		70094729..455	
70092013..363		70092891..173		70093751..152		70094272..506		70094730..455	
70092029..258		70092893..160		70093751..156		70094273..507		70094756..102	
70092029..265		70092894..160		70093752..129		70094274..507		70094776..455	
70092042..293		70092894..164		70093752..115		70094275..507		70094807..455	
70092042..297		70092902..601		70093752..311		70094276..508		70094839..101	
70092050..323		70092908..471		70093752..313		70094277..507		70094890..203	
70092107..315		70092929..159		70093780..168		70094278..507		70094895..553	
70092160..194		70092929..173		70093780..172		70094302..151		70094903..99	
70092160..201		70093037..175		70093785..147		70094302..6		70094903..102	
70092160..203		70093043..477		70093787..429		70094303..129		70094903..117	
70092160..199		70093061..479		70093788..429		70094303..6		70094941..117	
70092163..487		70093076..160		70093796..155		70094304..131		70094941..7	
70092163..489		70093076..168		70093797..160		70094304..131		70094956..99	
70092163..490		70093077..160		70093797..164		70094304..6		70094957..99	
70092163..493		70093078..160		70093803..168		70094306..151		70094958..511	
70092163..497		70093078..168		70093807..159		70094306..151		70094959..117	
70092163..505		70093079..160		70093813..168		70094306..7		70094960..117	
70092455..17		70093079..169		70093829..167		70094314..507		70094961..102	
70092456..15		70093098..475		70093831..169		70094332..508		70094964..129	
70092456..15		70093137..161		70093809..258		70094422..97		70094964..131	
70092463..15		70093140..484		70093909..253		70094422..99		70094967..553	
70092463..15		70093176..537		70093924..224		70094422..102		70094971..553	
70092616..431		70093178..459		70093924..227		70094422..152		70095001..553	
70092619..430		70093178..472		70093972..561		70094422..156		70095029..117	
70092620..430		70093183..459		70093972..565		70094450..561		70095057..152	
70092623..431		70093183..472		70094059..159		70094450..565		70095057..7	
70092624..431		70093191..472		70094059..168		70094455..477		70095081..173	
70092627..431		70093192..472		70094060..159		70094467..99		70095090..254	
70092635..167		70093195..537		70094060..168		70094467..117		70095090..258	
70092635..311		70093195..541		70094115..338		70094467..129		70095091..254	
70092635..313		70093196..537		70094116..338		70094467..131		70095091..258	
70092665..160		70093196..541		70094117..338		70094467..115		70095100..589	
70092665..168		70093224..459		70094118..338		70094481..239		70095105..589	
70092665..224		70093225..472		70094167..105		70094482..240		70095138..397	
70092665..223		70093231..459		70094219..152		70094483..240		70095118..115	
70092665..227		70093238..475		70094219..156		70094488..232		70095120..621	
70092665..460		70093239..90		70094221..129		70094498..572		70095127..258	
70092665..464		70093241..476		70094238..258		70094527..203		70095127..7	
70092665..472		70093244..253		70094239..147		70094527..566		70095141..397	
70092665..476		70093244..257		70094242..507		70094527..561		70095150..168	
70092679..505		70093245..261		70094243..507		70094533..152		70095156..167	
70092684..505		70093260..475		70094244..507		70094533..7		70095156..173	
70092727..107		70093271..526		70094245..507		70094543..349		70095163..167	
70092727..111		70093291..475		70094246..507		70094543..354		70095194..307	
70092727..127		70093319..463		70094247..507		70094566..114		70095214..385	
70092727..129		70093373..463		70094248..507		70094566..7		70095214..387	
70092727..131		70093398..463		70094249..507		70094572..115		70095215..385	
70092738..593		70093401..593		70094250..507		70094576..152		70095215..387	
70092738..595		70093401..595		70094251..507		70094577..115		70095216..385	
70092741..593		70093414..586		70094252..507		70094580..97		70095216..387	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70095219..227		70096260..437		70097263..172		70097656..99		70099141..453	
70095220..291		70096310..129		70097264..172		70097656..7		70099141..455	
70095235..455		70096310..131		70097265..171		70097666..549		70099142..453	
70095257..558		70096328..129		70097266..172		70097672..485		70099142..455	
70095257..561		70096328..131		70097266..172		70097680..601		70099219..581	
70095257..565		70096334..163		70097267..171		70097686..43		70099220..580	
70095265..559		70096334..172		70097324..453		70097692..487		70099269..332	
70095267..559		70096336..163		70097324..455		70097730..597		70099269..336	
70095268..559		70096336..171		70097328..562		70097735..125		70099270..336	
70095269..559		70096337..164		70097328..565		70097744..541		70099271..387	
70095278..449		70096337..171		70097330..562		70097776..595		70099272..386	
70095305..528		70096339..177		70097330..565		70097778..595		70099273..387	
70095306..528		70096341..163		70097330..7		70097779..595		70099274..386	
70095307..515		70096341..171		70097331..151		70097783..494		70099275..386	
70095312..553		70096342..177		70097334..353		70097811..595		70099276..386	
70095354..533		70096347..173		70097339..353		70097880..387		70099277..387	
70095479..125		70096348..173		70097339..7		70098038..105		70099280..387	
70095479..125		70096349..173		70097340..163		70098067..587		70099281..387	
70095481..125		70096350..163		70097463..561		70098068..587		70099291..336	
70095543..320		70096350..171		70097478..561		70098095..467		70099292..323	
70095544..283		70096350..173		70097478..7		70098095..471		70099293..533	
70095569..239		70096354..129		70097480..562		70098095..476		70099296..323	
70095575..225		70096354..131		70097480..565		70098096..467		70099297..323	
70095575..228		70096397..172		70097480..7		70098096..471		70099298..437	
70095583..151		70096398..177		70097481..151		70098096..476		70099299..437	
70095583..7		70096549..17		70097481..7		70098097..460		70099300..437	
70095641..232		70096630..449		70097482..487		70098097..476		70099301..437	
70095649..323		70096656..262		70097483..353		70098098..460		70099302..437	
70095664..177		70096657..262		70097486..183		70098098..476		70099303..437	
70095672..584		70096808..292		70097486..187		70098126..581		70099305..396	
70095674..584		70096808..300		70097486..181		70098185..152		70099306..396	
70095676..584		70096809..292		70097488..561		70098213..156		70099307..17A	
70095688..151		70096809..300		70097488..7		70098323..239		70099308..17A	
70095784..283		70096809..308		70097492..484		70098394..315		70099310..114	
70095804..287		70096815..105		70097493..542		70098630..342		70099310..524	
70095860..13A		70096816..105		70097494..163		70098683..342		70099315..329	
70095921..350		70096908..549		70097494..171		70098822..277		70099316..329	
70095921..7		70096913..549		70097503..541		70098823..284		70099319..524	
70095980..129		70096918..549		70097504..561		70098823..288		70099320..387	
70095980..131		70096922..291		70097504..565		70098938..311		70099323..490	
70096022..156		70096922..300		70097507..420		70098940..311		70099325..493	
70096022..7		70096922..296		70097507..424		70098940..313		70099420..385	
70096028..299		70096922..304		70097512..203		70098941..311		70099420..387	
70096046..571		70096922..308		70097533..131		70098941..313		70099428..385	
70096056..571		70096935..97		70097533..7		70098941..331		70099428..387	
70096071..571		70096935..101		70097534..129		70098942..272		70099434..17	
70096092..571		70096935..102		70097534..115		70098943..270		70099435..17A	
70096093..572		70096941..554		70097534..311		70098955..284		70099491..378	
70096111..547		70096946..353		70097534..313		70098956..283		70099494..419	
70096111..549		70097026..200		70097611..311		70098957..283		70099495..419	
70096142..403		70097026..203		70097611..313		70098957..287		70099496..419	
70096142..396		70097026..198		70097621..163		70098958..281		70099503..445	
70096142..396		70097030..537		70097629..129		70098961..283		70099504..445	
70096142..400		70097030..541		70097629..131		70098968..281		70099506..445	
70096192..151		70097030..578		70097634..151		70098996..283		70099571..377	
70096192..7		70097046..543		70097634..7		70098996..287		70099571..381	
70096208..209		70097048..543		70097635..186		70098997..283		70099574..378	
70096208..209B		70097055..354		70097649..99		70098997..287		70099575..409	
70096211..329		70097055..365		70097649..7		70099005..310		70099584..387	
70096211..333		70097063..549		70097651..117		70099005..312		70099591..152	
70096212..329		70097092..164		70097651..7		70099060..287		70099591..156	
70096212..333		70097093..164		70097652..117		70099061..17		70099591..7	
70096241..163		70097094..163		70097652..7		70099062..17		70099602..426	
70096241..172		70097094..382		70097653..101		70099166..279		70099603..426	
70096241..177		70097095..164		70097653..7		70099173..287		70099605..427	
70096242..164		70097096..177		70097654..101		70099074..287		70099606..427	
70096242..171		70097097..163		70097654..7		70099117..415		70099607..427	
70096244..164		70097207..203		70097655..97		70099133..243		70099608..427	
70096244..171		70097207..7		70097655..7		70099137..225		70099609..428	
70096259..437		70097260..172		70097656..97		70099137..228		70099610..428	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70099613..429		70188420..521		70605334..341		70620719..189		70621382..303	
70099614..429		70188421..523		70605335..341		70620789..482		70621399..533	
70099617..431		70188423..521		70605782..209C		70620859..477		70621400..533	
70099618..431		70188424..521		70605794..237		70620911..453		70621445..284	
70099619..430		70188425..523		70605794..253		70620911..455		70621445..288	
70099621..430		70188426..521		70605794..257		70620912..453		70621446..280	
70099622..430		70188428..521		70605808..581		70620912..455		70621451..318	
70099712..427		70188430..521		70607393..368		70620946..165		70621451..319	
70099712..429		70188433..521		70607393..369		70620951..165		70621453..359	
70099712..431		70188434..521		70607414..525		70620955..165		70621497..334	
70099803..475		70188436..521		70609470..468		70620957..304		70621497..330	
70099814..453		70188443..521		70609470..475		70620959..304		70621498..334	
70099814..455		70200267..613		70609474..468		70620961..304		70621498..330	
70099856..360		70200479..201		70609479..467		70620964..296		70621501..334	
70099862..359		70200479..203		70609674..475		70620964..304		70621501..330	
70099863..359		70200479..199		70614184..659B		70620968..307		70621502..334	
70099864..360		70200479..575		70614193..472		70620971..296		70621502..330	
70099865..349		70200479..577		70614478..99		70620971..304		70621505..335	
70099865..354		70200479..579		70614478..172		70620974..296		70621506..335	
70099898..283		70202283..613		70614478..463		70620974..304		70621565..334	
70099898..287		70202283..613		70614478..490		70620975..292		70621565..330	
70099899..279		70203188..586		70614478..228		70620975..296		70621566..334	
70099899..283		70203188..587		70614478..351		70620975..304		70621566..330	
70099910..357		70203188..589		70614478..371		70620975..307		70621631..324	
70099911..357		70203188..593		70614478..390		70620980..295		70621680..277	
70099912..357		70203188..595		70614478..392		70620980..303		70621682..281	
70099913..357		70234751..618		70614478..371		70620981..295		70621683..276	
70099914..357		70208253..357A		70615887..225		70620981..303		70621684..279	
70099915..347		70208253..357A		70615902..97		70620982..296		70621707..445	
70099915..353		70208253..658		70615902..101		70620982..304		70621748..532	
70099915..366		70208960..538		70615902..102		70621040..304		70621813..237	
70099915..370		70208960..575		70617932..553		70621171..611		70621813..263	
70099916..357		70208960..577		70619026..479		70621171..615		70621858..445	
70099917..357		70208960..541		70619040..479		70621171..617		70621926..566	
70099965..395		70208960..579		70619064..479		70621201..525		70621926..7	
70169557..513		70211567..614		70619066..479		70621213..165		70621937..313	
70169801..517		70211608..614		70619069..480		70621215..311		70621954..566	
70169802..517		70212758..574		70619072..479		70621260..489		70621954..7	
70169803..517		70223502..201		70619074..479		70621260..494		70621955..565	
70169804..517		70223502..203		70619077..480		70621260..497		70621979..183	
70169805..517		70223502..199		70619081..479		70621262..295		70621979..185	
70169806..517		70223502..538		70619082..479		70621262..303		70622031..445	
70169807..517		70223502..577		70619084..479		70621295..528		70622002..441	
70169808..517		70223502..579		70619105..479		70621296..528		70622015..534	
70169809..517		70223585..245		70620105..532		70621297..453		70622078..565	
70169810..517		70226012..66		70620228..295		70621297..455		70622078..7	
70169812..517		70226408..66		70620238..296		70621299..449		70622080..295	
70169814..517		70234692..357A		70620240..296		70621310..331		70622080..291	
70169815..517		70235794..538		70620242..296		70621311..329		70622080..299	
70169816..517		70235794..542		70620243..297		70621330..277		70622080..303	
70169818..517		70235794..575		70620250..185		70621330..295		70622083..315	
70169819..517		70235794..577		70620266..297		70621330..291		70622090..183	
70169821..517		70235794..579		70620267..297		70621330..299		70622091..183	
70169822..517		70238136..199		70620270..297		70621330..303		70622092..183	
70182671..513		70238136..581		70620274..303		70621331..307		70622092..186	
70182718..513		70240962..561		70620284..303		70621332..280		70622136..341	
70182719..513		70240962..565		70620285..303		70621333..280		70622193..341	
70182763..543		70240962..13A		70620313..295		70621334..284		70622195..443	
70182763..544		70600236..412		70620313..303		70621334..288		70622207..390	
70188405..521		70600236..443		70620350..13A		70621335..284		70622255..183	
70188406..521		70600236..467		70620472..525		70621335..288		70622255..185	
70188407..521		70600236..471		70620474..525		70621337..533		70622395..443	
70188410..521		70600236..530		70620485..239		70621338..534		70622396..443	
70188411..521		70600236..531		70620486..239		70621341..533		70622435..441	
70188412..521		70603830..152		70620487..239		70621342..534		70622436..441	
70188414..521		70604398..338		70620514..583		70621343..533		70622447..190	
70188415..521		70604435..249		70620515..584		70621345..533		70622492..515	
70188416..521		70604645..117		70620594..532		70621357..533		70622493..515	
70188418..521		70604925..251		70620595..532		70621363..315		70622566..449	
70188419..523		70605132..263		70620596..532		70621376..295		70622569..172	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70622575..172		70623164..407		70623338..283		70623707..319		70623888..532	
70622576..172		70623164..408		70623340..411		70623715..327		70623889..580	
70622596..183		70623164..390		70623420..374		70623716..528		70623893..411	
70622597..489		70623164..400		70623424..409		70623725..272		70623897..411	
70622633..183		70623164..401		70623427..375		70623726..270		70623901..333	
70622633..181		70623168..389		70623428..375		70623729..281		70623902..303	
70622692..114		70623171..367		70623429..375		70623756..403		70623902..296	
70622692..7		70623171..371		70623430..374		70623756..399		70623903..303	
70622717..389		70623171..367		70623431..374		70623757..403		70623903..296	
70622729..543		70623171..371		70623489..392		70623757..400		70623904..296	
70622751..443		70623178..270		70623501..534		70623758..404		70623904..304	
70622753..443		70623179..389		70623502..460		70623758..401		70623905..296	
70622781..347		70623180..389		70623502..468		70623759..404		70623905..304	
70622781..353		70623181..389		70623502..472		70623759..401		70623914..493	
70622781..367		70623188..311		70623502..477		70623760..399		70623914..497	
70622781..370		70623188..313		70623503..534		70623761..399		70623914..499	
70622789..357		70623188..318		70623504..534		70623762..399		70623926..152	
70622790..357		70623188..318		70623505..464		70623763..404		70623927..327	
70622806..338		70623188..319		70623513..243		70623763..401		70623928..336	
70622807..341		70623194..392		70623516..327		70623764..399		70623929..327	
70622901..333		70623195..392		70623524..460		70623765..399		70623930..320	
70622902..333		70623196..392		70623524..464		70623765..400		70623932..327	
70622916..318		70623197..392		70623524..468		70623766..400		70623933..321	
70622916..319		70623198..392		70623524..472		70623767..497		70623936..529	
70622962..189		70623201..392		70623524..477		70623769..404		70624050..382	
70622963..189		70623202..392		70623525..460		70623769..401		70624056..515	
70622964..189		70623203..392		70623525..464		70623772..403		70624076..389	
70622965..189		70623204..392		70623525..468		70623772..399		70624089..172	
70622966..189		70623205..392		70623525..472		70623774..390		70624101..399	
70622967..189		70623206..392		70623547..333		70623776..403		70624102..399	
70622968..189		70623207..392		70623548..333		70623776..400		70624103..400	
70623002..336		70623209..393		70623560..389		70623781..336		70624104..399	
70623003..327		70623210..393		70623592..186		70623782..337		70624124..497	
70623004..327		70623211..392		70623595..186		70623783..327		70624145..499	
70623007..327		70623213..390		70623598..311		70623783..323		70624147..499	
70623008..327		70623234..363		70623599..311		70623783..336		70624149..499	
70623045..368		70623235..363		70623600..311		70623784..337		70624151..499	
70623045..369		70623268..364		70623601..311		70623786..337		70624152..500	
70623046..368		70623278..367		70623604..313		70623787..334		70624154..500	
70623048..368		70623278..7		70623605..313		70623830..318		70624156..500	
70623049..368		70623278..367		70623606..313		70623831..318		70624158..499	
70623049..369		70623279..367		70623607..313		70623832..319		70624171..101	
70623075..437		70623279..371		70623608..317		70623833..318		70624171..8	
70623076..437		70623279..367		70623609..311		70623833..8		70624172..101	
70623076..439		70623279..371		70623609..313		70623834..315		70624172..8	
70623102..187		70623280..367		70623610..275		70623835..315		70624180..383	
70623104..186		70623280..8		70623611..363		70623836..315		70624183..364	
70623129..399		70623280..367		70623612..363		70623837..315		70624183..8	
70623130..389		70623281..364		70623614..274		70623838..315		70624184..383	
70623131..389		70623287..373		70623615..7		70623845..315		70624186..364	
70623132..389		70623287..8		70623615..8		70623850..152		70624186..8	
70623133..389		70623288..367		70623616..363		70623850..156		70624187..373	
70623136..390		70623288..367		70623617..363		70623850..8		70624187..8	
70623137..390		70623290..382		70623618..271		70623851..129		70624199..257	
70623138..390		70623304..364		70623618..272		70623852..129		70624207..450	
70623139..407		70623309..311		70623636..333		70623852..8		70624222..381	
70623139..390		70623310..310		70623637..389		70623853..152		70624223..381	
70623140..390		70623310..312		70623638..389		70623853..156		70624224..381	
70623141..390		70623311..310		70623643..419		70623856..489		70624225..381	
70623142..390		70623312..311		70623643..423		70623858..489		70624226..381	
70623144..389		70623316..310		70623662..327		70623860..490		70624263..532	
70623151..403		70623316..312		70623667..279		70623861..490		70624391..99	
70623151..407		70623317..313		70623667..283		70623862..274		70624391..8	
70623151..399		70623320..313		70623701..319		70623876..327		70624392..99	
70623153..389		70623321..312		70623701..8		70623876..323		70624392..8	
70623157..389		70623333..280		70623703..280		70623877..327		70624393..99	
70623158..389		70623334..283		70623704..284		70623878..327		70624394..114	
70623164..404		70623334..287		70623704..288		70623879..327		70624394..8	
70623164..404		70623335..279		70623705..318		70623880..549		70624405..499	
70623164..407		70623337..287		70623706..319		70623887..532		70624488..503	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70624488..511		70626534..627		70626844..625		70628113..519		70629707..367	
70624488..523		70626534..631		70626857..646		70628114..519		70629707..367	
70624528..269		70626538..629		70626866..625		70628161..357A		70629730..295	
70624584..379		70626538..633		70626956..8		70628406..409		70629734..280	
70624584..383		70626539..633		70626956..9		70628458..327		70629749..390	
70624659..415		70626543..623		70627121..660		70628526..348		70629780..373	
70624683..416		70626543..623		70627145..661		70628526..364		70629780..8	
70624746..115		70626543..624		70627171..661		70628535..407		70629785..373	
70624814..262		70626553..635		70627172..661		70628679..387		70629785..8	
70624815..261		70626584..623		70627196..662		70628736..159		70629829..367	
70624816..261		70626586..623		70627197..662		70628736..159		70629829..367	
70624317..262		70626590..623		70627198..662		70628736..163		70630744..224	
70624826..313		70626627..9		70627321..438		70628736..164		70630044..227	
70624931..628		70626637..625		70627321..439		70628736..165		70630045..327	
70624931..632		70626657..632		70627329..505		70628736..167		70630045..323	
70625038..637		70626658..628		70627339..505		70628736..168		70630045..336	
70625041..637		70626658..632		70627340..505		70628736..171		70630051..171	
70625077..647		70626667..651		70627341..505		70628736..172		70630052..327	
70625077..659B		70626669..651		70627343..505		70628736..293		70630052..323	
70625078..659B		70626670..645		70627345..505		70628736..377		70630052..336	
70625079..659B		70626670..651		70627360..505		70628736..378		70630147..576	
70625080..659C		70626671..645		70627377..375		70628736..382		70630148..577	
70625081..659B		70626671..651		70627378..375		70628736..382		70630363..225	
70625084..645		70626672..654		70627380..375		70628736..383		70630364..225	
70625084..651		70626673..653		70627451..383		70628736..297		70630528..375	
70625084..659B		70626674..653		70627451..553		70628736..307		70630540..104	
70625085..645		70626675..653		70627480..519		70628737..161		70630546..438	
70625085..651		70626676..651		70627481..519		70628737..163		70630546..13	
70625085..659B		70626677..645		70627482..519		70628737..169		70630626..581	
70625086..645		70626677..651		70627483..519		70628737..172		70630713..203	
70625086..651		70626678..645		70627484..519		70628737..176		70630785..583	
70625086..659B		70626678..651		70627485..519		70628737..177		70630787..201	
70625087..645		70626679..653		70627486..519		70628738..161		70630787..203	
70625087..651		70626680..653		70627487..519		70628738..163		70630787..199	
70625087..659B		70626681..653		70627488..519		70628738..169		70630827..200	
70625088..659B		70626682..653		70627489..519		70628738..172		70630827..203	
70625089..659B		70626683..653		70627490..519		70628738..176		70630827..199	
70625090..659B		70626684..653		70627491..519		70628738..177		70630828..201	
70625091..659B		70626685..646		70627492..519		70628872..621		70630828..203	
70625092..659B		70626685..651		70627493..519		70628884..621		70630828..199	
70625094..659B		70626687..652		70627494..519		70628894..337		70630829..199	
70625098..659B		70626688..647		70627495..523		70628915..450		70630830..200	
70625102..647		70626688..652		70627495..519		70628936..450		70630830..203	
70625102..659B		70626689..653		70627496..520		70628937..450		70630830..198	
70625106..659C		70626690..653		70627497..519		70629037..239		70630833..383	
70625107..659B		70626691..646		70627498..521		70629038..239		70630836..379	
70625108..659B		70626691..652		70627498..519		70629040..277		70630836..383	
70625217..8		70626692..646		70627499..519		70629040..276		70630837..382	
70625217..659C		70626692..652		70627803..9		70629040..321		70630841..382	
70625220..659C		70626697..652		70627897..625		70629040..614		70630866..383	
70625221..659C		70626698..648		70627898..625		70629041..276		70630874..383	
70625222..8		70626698..653		70627899..625		70629072..342		70630917..581	
70625222..659C		70626701..651		70627966..639		70629164..367		70631009..224	
70625429..669		70626702..645		70627966..641		70629164..367		70631009..227	
70626481..490		70626702..651		70628001..519		70629188..577		70631031..423	
70626497..472		70626703..653		70628002..519		70629189..576		70631032..423	
70626505..623		70626704..645		70628003..519		70629205..533		70631033..423	
70626513..627		70626704..651		70628004..519		70629253..407		70631033..13	
70626513..631		70626705..646		70628005..521		70629268..342		70631034..423	
70626517..632		70626705..652		70628005..519		70629271..342		70631182..453	
70626527..633		70626706..654		70628006..519		70629464..363		70631182..455	
70626528..629		70626715..659		70628019..393		70629479..363		70631198..200	
70626528..633		70626720..658		70628104..450		70629485..363		70631198..203	
70626528..633		70626721..658		70628105..450		70629515..408		70631198..199	
70626528..633		70626729..658		70628106..450		70629536..407		70631199..200	
70626529..629		70626730..658		70628109..521		70629543..408		70631199..203	
70626529..633		70626740..638		70628109..519		70629548..407		70631199..198	
70626529..633		70626740..640		70628110..519		70629616..408		70631224..201	
70626532..627		70626789..660		70628111..519		70629642..369		70631224..203	
70626532..631		70626824..625		70628112..519		70629643..369		70631224..199	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70631225..201		70631914..423		70633519..125		70638957..12		70644335..521	
70631225..203		70631914..13A		70633625..235A		70638957..13		70644339..521	
70631225..199		70631915..423		70633526..224		70638957..13A		70644845..521	
70631226..201		70631915..12		70633653..550		70639067..538		70644897..357A	
70631226..203		70631916..423		70634091..193		70639067..541		70644898..357A	
70631226..199		70631916..12		70634096..371		70639171..335		70645109..356	
70631290..441		70631923..12		70634096..371		70639172..335		70645109..357	
70631290..12		70631924..12		70634232..264		70639459..408		70645109..357B	
70631290..13		70631924..13		70634233..264		70640631..363		70645109..357D	
70631290..13A		70631935..374		70634234..264		70640710..542		70645500..363	
70631291..445		70631981..404		70634242..264		70641148..393		70645563..515	
70631291..12		70631981..408		70634330..534		70641356..296		70645566..521	
70631291..13		70632060..372		70634376..534		70641356..304		70645584..521	
70631291..13A		70632061..372		70634677..566		70641356..308		70645692..521	
70631292..445		70632062..372		70634958..239		70641474..529		70645976..441	
70631292..12		70632063..372		70634959..239		70641636..561		70646045..423	
70631292..13		70632112..357		70635081..296		70641636..565		70646078..193	
70631292..13A		70632139..13		70635081..304		70641809..566		70646078..193	
70631293..533		70632140..13		70635082..296		70642447..327		70646078..485	
70631353..621		70632142..12		70635082..304		70642447..8		70646091..334	
70631501..371		70632142..13		70635463..660		70642448..327		70646091..330	
70631501..371		70632142..13A		70635464..660		70642744..125		70646092..334	
70631502..371		70632169..423		70636357..625		70642880..389		70646092..330	
70631502..8		70632169..13		70636372..625		70643007..407		70646256..307	
70631502..371		70632170..423		70636512..660		70643019..407		70646302..372	
70631503..371		70632170..13		70636513..660		70643024..408		70647060..611	
70631503..8		70632226..533		70637701..423		70643032..407		70647080..423	
70631503..371		70632254..423		70637729..407		70643040..308		70647321..279	
70631542..371		70632254..12		70637729..390		70643042..308		70647321..283	
70631542..371		70632254..13		70637730..407		70643046..307		70649412..249	
70631564..190		70632307..13		70637730..390		70643053..407		70649661..287	
70631566..201		70632308..13		70637801..409		70643138..390		70650189..357C	
70631566..203		70632309..433		70637802..409		70643274..408		70650193..357C	
70631566..199		70632323..434		70637803..409		70643275..337		70650672..357C	
70631578..364		70632323..433		70637804..409		70643276..337		70650673..357C	
70631578..8		70632341..434		70637805..409		70643438..357A		70650674..357C	
70631579..364		70632341..433		70637806..409		70643449..357A		70650675..357C	
70631579..8		70632342..434		70637808..409		70643491..357B		70650676..357C	
70631521..423		70632342..433		70637809..409		70643492..357A		70650677..357C	
70631621..13		70632353..403		70637810..409		70643496..357A		70650678..357C	
70631622..423		70632364..404		70637811..409		70643534..357A		70650679..357C	
70631622..13		70632365..403		70637817..409		70643544..357A		70650741..296	
70631639..581		70632367..404		70637818..409		70643545..357A		70650742..296	
70631664..472		70632373..404		70637819..409		70643550..373		70650742..304	
70631767..8		70632380..434		70637820..409		70643551..357A		70650743..296	
70631767..190		70632380..433		70637957..104		70643552..357B		70650743..304	
70631768..190		70632441..434		70638026..389		70643553..357A		70650744..304	
70631769..190		70632441..433		70638027..389		70643740..333		70650745..283	
70631770..190		70632442..434		70638028..389		70643740..390		70650745..287	
70631773..17A		70632442..433		70638094..296		70643744..206		70650813..327	
70631779..8		70632451..408		70638094..304		70643744..209		70650848..433	
70631779..190		70632454..223		70638282..544		70643744..209B		70651580..296	
70631780..190		70632478..232		70638283..541		70643760..407		70651580..304	
70631781..190		70632551..13A		70638283..578		70643996..659B		70651725..297	
70631828..372		70632552..13A		70638338..404		70644133..200		70651725..304	
70631833..434		70632554..13A		70638338..408		70644133..203		70653773..389	
70631846..372		70632554..13A		70638351..521		70644136..390		70653929..357D	
70631868..372		70632580..423		70638429..521		70644354..357A		70653930..357D	
70631869..372		70632650..183		70638561..393		70644417..118		70653931..357D	
70631870..372		70632650..185		70638562..393		70644417..121		70653932..357D	
70631871..372		70632661..257		70638563..393		70644463..408		70653934..357D	
70631872..372		70632695..257		70638600..390		70644577..408		70653936..357D	
70631882..408		70632740..490		70638620..618		70644578..383		70653937..357D	
70631882..408		70632911..497		70638796..445		70644582..408		70654074..357D	
70631883..403		70632912..497		70638818..390		70644748..515		70654075..357D	
70631883..407		70632917..489		70638911..366		70644749..521		70654084..404	
70631893..404		70632930..489		70638911..370		70644750..521		70654084..408	
70631893..408		70632941..489		70638953..296		70644753..523		70654084..396	
70631913..423		70632971..549		70638953..304		70644754..521		70654084..401	
70631913..13A		70633509..224		70638957..446		70644830..521		70654089..357D	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70654180..357D		70900805..397		70900942..164		70901652..183		70903625..217	
70654180..367		70900805..399		70900942..165		70901652..181		70903625..357	
70654180..370		70900835..507		70900942..167		70901652..186		70903625..519	
70654505..13A		70900805..505		70900942..168		70901652..219		70903626..68	
70655464..441		70900805..297		70900942..169		70901652..219E		70903626..37	
70655497..443		70900305..304		70900942..171		70901652..329		70903626..69	
70655528..445		70900805..608		70900942..172		70901652..324		70903626..609	
70655743..375		70900806..15		70900942..175		70901652..349		70903628..542	
70655999..357D		70900806..186		70900942..176		70901652..354		70903629..75	
70656151..383		70900806..403		70900942..177		70901652..557		70903629..219	
70656749..424		70900806..404		70900942..293		70901652..561		70903629..507	
70656750..424		70900806..408		70900942..292		70901652..565		70903629..508	
70658293..557		70900806..479		70900942..300		70901653..32		70903629..608	
70658293..561		70900806..487		70900942..384		70901653..221		70903630..58	
70658293..565		70900806..585		70900942..385		70901653..69		70903630..215	
70658348..558		70900806..389		70900942..387		70901653..72		70903630..66	
70658348..561		70900806..614		70900942..615		70901653..274		70903630..67	
70658348..565		70900806..15		70900942..297		70901653..275		70903630..69	
70658356..557		70900806..17		70900942..304		70901653..291		70903630..73	
70658423..557		70900806..396		70900942..307		70901653..299		70903630..423	
70658423..561		70900806..400		70900942..308		70901653..613		70903630..424	
70658423..565		70900806..409		70900942..659B		70901654..19		70903630..607	
70661345..558		70900806..658		70900970..161		70901655..329		70903630..610	
70661345..561		70900806..659E		70900970..163		70901666..659C		70903631..68	
70661345..565		70900807..569		70900970..169		70901667..329		70903631..69	
70662038..235		70900807..571		70900970..172		70901668..179		70903631..72	
70664692..643		70900807..385		70900970..176		70901678..107		70903631..605	
70667252..66		70900807..387		70900970..177		70901678..127		70903631..605	
70667553..296		70900808..209C		70900970..372		70901722..325		70903631..607	
70667553..307		70900808..59		70901150..173		70901722..351		70903631..610	
70667554..296		70900808..61		70901151..368		70901722..671		70903632..70	
70800781..517		70900808..62		70901151..369		70901726..351		70903632..213	
70827650..357D		70900808..209		70901165..221		70901751..397		70903633..63	
70900405..484		70900808..569		70901165..521		70901752..553		70903633..85	
70900408..513		70900808..572		70901172..139		70901763..324		70903633..120	
70900558..558		70900808..389		70901226..245		70901764..154		70903633..605	
70900561..507		70900808..17		70901310..194		70901764..671		70903634..74	
70900575..356		70900808..17A		70901310..139		70901765..334		70903636..215	
70900576..105		70900808..235		70901467..89		70901765..351		70903636..59	
70900576..506		70900810..623		70901467..93		70901765..353		70903637..137	
70900585..374		70900810..625		70901478..265		70901769..646		70903637..53	
70900636..80		70900817..90		70901483..351		70901781..196		70903637..56	
70900764..598		70900817..53		70901489..107		70901825..89		70903638..221	
70900764..486		70900817..57		70901489..127		70901825..93		70903638..33	
70900801..569		70900817..121		70901489..334		70901825..155		70903638..53	
70900801..571		70900817..193		70901490..351		70901825..155		70903638..121	
70900801..377		70900817..384		70901490..353		70901825..258		70903638..135	
70900801..378		70900817..537		70901500..89		70901825..265		70903638..213	
70900801..379		70900817..537		70901500..93		70901825..324		70903638..56	
70900801..381		70900817..553		70901500..107		70901826..89		70903639..39	
70900801..382		70900817..608		70901501..89		70901826..94		70903639..211	
70900801..383		70900817..658		70901501..107		70901826..123		70903639..69	
70900801..399		70900818..20		70901520..665		70901826..351		70903639..73	
70900802..205		70900818..221		70901651..183		70901826..671		70903641..607	
70900802..503		70900818..141		70901651..181		70901829..646		70903642..20	
70900802..511		70900818..186		70901651..217		70901829..652		70903642..25	
70900802..521		70900818..511		70901651..295		70901835..223		70903642..121	
70900802..523		70900818..523		70901651..291		70901838..265		70903765..368	
70900802..384		70900818..513		70901651..299		70901839..93		70903765..369	
70900802..519		70900818..537		70901651..337		70901839..223		70903771..78	
70900803..517		70900818..541		70901651..354		70901839..671		70903772..231	
70900803..519		70900818..578		70901651..367		70901840..671		70903772..231	
70900805..293		70900818..409		70901651..371		70901844..652		70903772..609	
70900805..249		70900819..571		70901651..561		70901849..669		70903773..221	
70900805..251		70900826..667		70901651..565		70902559..671		70903773..232	
70900805..300		70900938..240		70901651..367		70903093..403		70903773..231	
70900805..379		70900942..159		70901651..367		70903093..395		70903773..231	
70900805..384		70900942..160		70901651..371		70903093..400		70903773..607	
70900805..387		70900942..161		70901652..20		70903574..209C		70903775..205	
70900805..395		70900942..163		70901652..24		70903584..231		70903775..205	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70903775	..207	70904205	..221	70904206	..224	70904206	..589	70904206	..628
70903781	..211	70904205	..224	70904206	..225	70904206	..590	70904206	..631
70903781	..78	70904205	..37	70904206	..44	70904206	..593	70904206	..632
70903782	..211	70904205	..78	70904206	..48	70904206	..595	70904206	..633
70904001	..537	70904205	..79	70904206	..49	70904206	..228	70904206	..637
70904001	..541	70904205	..227	70904206	..53	70904206	..245	70904206	..645
70904001	..553	70904205	..232	70904206	..57	70904206	..251	70904206	..651
70904002	..618	70904205	..243	70904206	..59	70904206	..253	70904206	..658
70904003	..407	70904205	..254	70904206	..62	70904206	..257	70904206	..659
70904003	..390	70904205	..199	70904206	..66	70904206	..263	70904206	..665
70904006	..618	70904205	..460	70904206	..67	70904206	..291	70904206	..669
70904007	..614	70904205	..464	70904206	..69	70904206	..299	70904207	..134
70904015	..623	70904205	..472	70904206	..72	70904206	..303	70904207	..136
70904015	..637	70904205	..476	70904206	..73	70904206	..311	70904207	..215
70904016	..624	70904205	..572	70904206	..75	70904206	..313	70904207	..224
70904020	..173	70904205	..228	70904206	..77	70904206	..324	70904207	..77
70904020	..648	70904205	..231	70904206	..78	70904206	..347	70904207	..78
70904020	..653	70904205	..245	70904206	..79	70904206	..348	70904207	..205
70904203	..194	70904205	..357A	70904206	..115	70904206	..351	70904207	..206
70904203	..139	70904205	..357E	70904206	..118	70904206	..353	70904207	..217
70904203	..330	70904205	..368	70904206	..121	70904206	..354	70904207	..219
70904203	..652	70904205	..369	70904206	..138	70904206	..363	70904207	..219B
70904204	..173	70904205	..507	70904206	..193	70904206	..364	70904207	..223
70904204	..200	70904205	..505	70904206	..205	70904206	..367	70904207	..227
70904204	..62	70904205	..519	70904206	..206	70904206	..368	70904207	..569
70904204	..77	70904205	..607	70904206	..207	70904206	..369	70904207	..572
70904204	..121	70904205	..609	70904206	..209	70904206	..371	70904207	..228
70904204	..139	70904205	..657	70904206	..213	70904206	..373	70904207	..347
70904204	..141	70904205	..658	70904206	..217	70904206	..377	70904207	..353
70904204	..203	70904206	..58	70904206	..219	70904206	..378	70904207	..356
70904204	..217	70904206	..63	70904206	..219B	70904206	..379	70904207	..367
70904204	..199	70904206	..65	70904206	..223	70904206	..381	70904207	..371
70904204	..198	70904206	..68	70904206	..227	70904206	..382	70904207	..367
70904204	..209B	70904206	..70	70904206	..236	70904206	..383	70904207	..367
70904204	..463	70904206	..74	70904206	..243	70904206	..399	70904207	..370
70904204	..525	70904206	..85	70904206	..254	70904206	..480	70904207	..371
70904204	..571	70904206	..90	70904206	..258	70904206	..486	70904208	..15
70904204	..572	70904206	..94	70904206	..271	70904206	..500	70904208	..20
70904204	..311	70904206	..97	70904206	..273	70904206	..507	70904208	..24
70904204	..313	70904206	..99	70904206	..295	70904206	..508	70904208	..39
70904204	..356	70904206	..101	70904206	..199	70904206	..517	70904208	..64
70904204	..357A	70904206	..102	70904206	..209B	70904206	..537	70904208	..65
70904204	..357B	70904206	..108	70904206	..420	70904206	..541	70904208	..84
70904204	..397	70904206	..112	70904206	..424	70904206	..547	70904208	..90
70904204	..506	70904206	..117	70904206	..443	70904206	..550	70904208	..93
70904204	..519	70904206	..120	70904206	..459	70904206	..553	70904208	..94
70904204	..549	70904206	..127	70904206	..460	70904206	..554	70904208	..99
70904204	..574	70904206	..129	70904206	..463	70904206	..558	70904208	..101
70904204	..576	70904206	..131	70904206	..464	70904206	..561	70904208	..102
70904204	..580	70904206	..148	70904206	..468	70904206	..565	70904208	..107
70904204	..190	70904206	..152	70904206	..472	70904206	..578	70904208	..108
70904205	..89	70904206	..155	70904206	..476	70904206	..579	70904208	..111
70904205	..93	70904206	..156	70904206	..477	70904206	..604	70904208	..112
70904205	..97	70904206	..159	70904206	..484	70904206	..613	70904208	..114
70904205	..99	70904206	..160	70904206	..485	70904206	..614	70904208	..117
70904205	..101	70904206	..163	70904206	..490	70904206	..615	70904208	..122
70904205	..107	70904206	..164	70904206	..493	70904206	..617	70904208	..137
70904205	..111	70904206	..165	70904206	..497	70904206	..235	70904208	..148
70904205	..114	70904206	..167	70904206	..529	70904206	..296	70904208	..151
70904205	..117	70904206	..168	70904206	..538	70904206	..304	70904208	..163
70904205	..132	70904206	..171	70904206	..542	70904206	..377	70904208	..168
70904205	..159	70904206	..172	70904206	..566	70904206	..357D	70904208	..171
70904205	..160	70904206	..175	70904206	..569	70904206	..367	70904208	..172
70904205	..163	70904206	..183	70904206	..571	70904206	..370	70904208	..183
70904205	..164	70904206	..187	70904206	..572	70904206	..371	70904208	..187
70904205	..167	70904206	..201	70904206	..575	70904206	..605	70904208	..210
70904205	..168	70904206	..209C	70904206	..577	70904206	..607	70904208	..211
70904205	..171	70904206	..210	70904206	..581	70904206	..608	70904208	..221
70904205	..172	70904206	..215	70904206	..586	70904206	..610	70904208	..25
70904205	..175	70904206	..221	70904206	..587	70904206	..627	70904208	..33

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70904208..34		70904208..528		70904208..15		70904209..228		70904369..527	
70904208..36		70904208..529		70904208..56		70904209..291		70904369..613	
70904208..43		70904208..538		70904208..56		70904209..299		70904369..433	
70904208..45		70904208..542		70904208..87		70904209..303		70904369..433	
70904208..48		70904208..593		70904208..878		70904209..324		70904369..433	
70904208..53		70904208..595		70904208..235A		70904209..330		70904369..433	
70904208..57		70904208..598		70904208..296		70904209..333		70904369..456	
70904208..66		70904208..228		70904208..297		70904209..335		70904369..638	
70904208..69		70904208..249		70904208..305		70904209..338		70904369..640	
70904208..73		70904208..251		70904208..307		70904209..341		70904369..662	
70904208..78		70904208..276		70904208..367		70904209..345		70904516..25	
70904208..115		70904208..291		70904208..371		70904209..354		70904541..84	
70904208..121		70904208..292		70904208..396		70904209..365		70904557..608	
70904208..125		70904208..299		70904208..400		70904209..385		70904706..77	
70904208..135		70904208..300		70904208..401		70904209..389		70904706..205	
70904208..178		70904208..303		70904208..605		70904209..395		70904706..206	
70904208..179		70904208..320		70904208..607		70904209..399		70904708..145	
70904208..181		70904208..330		70904208..627		70904209..553		70905121..159	
70904208..186		70904208..333		70904208..628		70904209..554		70905121..160	
70904208..193		70904208..335		70904208..629		70904209..574		70905121..163	
70904208..213		70904208..337		70904208..631		70904209..602		70905121..164	
70904208..213A		70904208..338		70904208..632		70904209..611		70905121..167	
70904208..243		70904208..345		70904208..633		70904209..613		70905121..168	
70904208..254		70904208..348		70904208..639		70904209..617		70905121..171	
70904208..270		70904208..349		70904208..641		70904209..15		70905121..175	
70904208..272		70904208..351		70904208..645		70904209..17		70905121..569	
70904208..277		70904208..354		70904208..651		70904209..307		70905121..571	
70904208..280		70904208..355		70904208..657		70904209..637		70905122..235	
70904208..281		70904208..356		70904208..659		70904210..531		70905122..659	
70904208..284		70904208..359		70904208..659C		70904223..19		70905123..59	
70904208..288		70904208..363		70904208..664		70904223..329		70905123..61	
70904208..293		70904208..364		70904208..669		70904223..333		70905123..377	
70904208..295		70904208..367		70904209..15		70904224..23		70905123..378	
70904208..327		70904208..371		70904209..99		70904224..39		70905123..381	
70904208..329		70904208..377		70904209..102		70904224..43		70905123..383	
70904208..334		70904208..378		70904209..117		70904224..213A		70905262..371	
70904208..342		70904208..378		70904209..124		70904224..329		70905262..371	
70904208..403		70904208..381		70904209..33		70904226..351		70905347..329	
70904208..404		70904208..382		70904209..35		70904227..107		70905347..427	
70904208..407		70904208..382		70904209..37		70904270..671		70905347..429	
70904208..408		70904208..390		70904209..125		70904271..111		70905347..431	
70904208..411		70904208..392		70904209..277		70904271..112		70905347..434	
70904208..412		70904208..395		70904209..295		70904271..69		70905347..438	
70904208..209B		70904208..397		70904209..342		70904271..73		70905347..467	
70904208..415		70904208..399		70904209..403		70904271..209B		70905347..333	
70904208..416		70904208..480		70904209..407		70904273..190		70905347..433	
70904208..419		70904208..500		70904209..411		70904281..215		70905357..441	
70904208..420		70904208..505		70904209..415		70904281..219		70905357..443	
70904208..423		70904208..513		70904209..420		70904369..224		70905357..445	
70904208..424		70904208..515		70904209..424		70904369..225		70905357..196	
70904208..437		70904208..517		70904209..439		70904369..426		70905358..648	
70904208..438		70904208..526		70904209..446		70904369..427		70905358..653	
70904208..439		70904208..527		70904209..449		70904369..428		70905361..614	
70904208..441		70904208..531		70904209..459		70904369..429		70905362..292	
70904208..445		70904208..537		70904209..460		70904369..430		70905362..292	
70904208..449		70904208..541		70904209..463		70904369..431		70905362..292	
70904208..463		70904208..547		70904209..467		70904369..434		70905362..300	
70904208..479		70904208..549		70904209..468		70904369..441		70905362..300	
70904208..483		70904208..553		70904209..471		70904369..463		70905362..300	
70904208..487		70904208..578		70904209..472		70904369..464		70905362..308	
70904208..489		70904208..583		70904209..475		70904369..467		70905564..374	
70904208..490		70904208..597		70904209..476		70904369..482		70905656..77	
70904208..493		70904208..601		70904209..477		70904369..483		70905657..139	
70904208..494		70904208..611		70904209..479		70904369..528		70905657..463	
70904208..497		70904208..614		70904209..483		70904369..529		70905660..37	
70904208..499		70904208..615		70904209..571		70904369..228		70905666..397	
70904208..503		70904208..617		70904209..577		70904369..385		70905667..65	
70904208..511		70904208..618		70904209..586		70904369..387		70905668..69	
70904208..523		70904208..623		70904209..587		70904369..513		70905668..73	
70904208..524		70904208..625		70904209..589		70904369..526			

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70905668..607		70910123..665		70910244..659		70910874..580		70911029..475	
70905818..121		70910139..133		70910244..669		70910879..17A		70911029..477	
70905845..134		70910141..62		70910245..44		70910880..121		70911032..660	
70905845..137		70910167..609		70910251..558		70910880..139		70911035..160	
70906652..397		70910171..133		70910255..572		70910882..503		70911035..164	
70906652..399		70910171..671		70910255..615		70910882..511		70911035..165	
70906692..118		70910173..59		70910257..210		70910897..633		70911035..172	
70906692..199		70910195..20		70910257..295		70910905..265		70911035..476	
70906700..210		70910195..24		70910257..303		70910906..258		70911035..356	
70906700..607		70910195..211		70910258..66		70910906..265		70911035..505	
70906957..558		70910195..178		70910267..163		70910910..646		70911035..515	
70906958..580		70910195..179		70910267..172		70910910..652		70911035..519	
70906958..608		70910195..517		70910267..177		70910914..389		70911035..614	
70906960..537		70910197..147		70910268..201		70910916..411		70911036..236	
70906960..541		70910197..155		70910268..258		70910916..412		70911036..243	
70906961..330		70910210..519		70910268..199		70910916..419		70911036..245	
70906961..359		70910211..112		70910268..198		70910916..423		70911036..253	
70906961..549		70910211..210		70910268..265		70910916..439		70911036..257	
70906985..40		70910211..59		70910274..523		70910916..459		70911040..161	
70907058..19		70910211..77		70910302..404		70910916..463		70911040..169	
70907058..23		70910211..78		70910302..407		70910916..467		70911040..173	
70907058..265		70910211..118		70910302..390		70910916..468		70911040..176	
70907058..324		70910224..80		70910302..401		70910916..471		70911040..525	
70907059..253		70910230..209		70910310..519		70910916..475		70911040..571	
70907059..257		70910230..263		70910319..90		70910916..476		70911040..549	
70907061..147		70910230..235		70910319..108		70910916..585		70911040..574	
70907061..147		70910230..643		70910319..112		70910916..660		70911040..580	
70907061..265		70910231..51		70910319..115		70910916..661		70911040..190	
70907070..210		70910231..50		70910319..597		70910922..94		70911041..90	
70907070..48		70910231..315		70910320..408		70910922..108		70911041..94	
70907070..178		70910233..132		70910320..615		70910922..112		70911041..97	
70907070..329		70910234..65		70910323..132		70910923..513		70911041..99	
70907070..419		70910243..139		70910323..505		70910923..662		70911041..101	
70907070..423		70910243..558		70910324..68		70910948..217		70911041..102	
70907154..200		70910244..148		70910324..210		70910948..219		70911041..108	
70907154..203		70910244..152		70910324..215		70910967..359		70911041..112	
70907154..198		70910244..141		70910324..69		70910967..615		70911041..117	
70907856..48		70910244..181		70910324..72		70911021..30		70911041..127	
70907856..69		70910244..213		70910324..213		70911024..105		70911041..129	
70907856..653		70910244..293		70910324..217		70911024..463		70911041..131	
70907859..30		70910244..479		70910324..219		70911024..311		70911041..152	
70907859..359		70910244..490		70910324..219B		70911024..313		70911041..156	
70907859..667		70910244..493		70910324..223		70911024..397		70911041..159	
70908386..533		70910244..497		70910325..210		70911024..519		70911041..160	
70908944..48		70910244..499		70910325..57		70911024..576		70911041..163	
70908944..263		70910244..503		70910325..213A		70911025..228		70911041..167	
70908944..333		70910244..511		70910334..558		70911025..231		70911041..168	
70908944..374		70910244..523		70910334..561		70911025..607		70911041..171	
70908944..390		70910244..569		70910334..565		70911025..609		70911041..175	
70908944..392		70910244..571		70910335..37		70911026..120		70911041..177	
70908944..657		70910244..300		70910335..78		70911026..118		70911041..183	
70909091..645		70910244..335		70910335..79		70911026..484		70911041..201	
70909091..651		70910244..363		70910335..505		70911026..485		70911041..209C	
70909365..667		70910244..384		70910335..537		70911026..507		70911041..115	
70910002..54		70910244..395		70910335..541		70911026..508		70911041..193	
70910002..57		70910244..397		70910510..2098		70911026..537		70911041..206	
70910002..307		70910244..399		70910543..237		70911026..578		70911041..209	
70910005..357		70910244..508		70910543..263		70911026..605		70911041..293	
70910006..617		70910244..531		70910819..2098		70911026..607		70911041..295	
70910011..449		70910244..583		70910847..20		70911026..610		70911041..199	
70910123..215		70910244..623		70910847..24		70911028..193		70911041..460	
70910123..53		70910244..297		70910847..407		70911028..438		70911041..476	
70910123..57		70910244..304		70910847..390		70911028..349		70911041..485	
70910123..138		70910244..396		70910856..201		70911028..354		70911041..529	
70910123..140		70910244..607		70910856..199		70911028..364		70911041..538	
70910123..205		70910244..628		70910863..384		70911028..547		70911041..566	
70910123..209		70910244..629		70910867..205		70911028..549		70911041..577	
70910123..209B		70910244..632		70910867..487		70911028..605		70911041..581	
70910123..507		70910244..633		70910867..385		70911028..607		70911041..593	
70910123..517		70910244..658		70910867..387		70911029..468		70911041..595	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70911041..246		70911043..499		70911044..403		70911100..566		70911233..300	
70911041..251		70911043..503		70911044..407		70911100..345		70911233..296	
70911041..263		70911043..511		70911044..411		70911114..77		70911233..296	
70911041..292		70911043..523		70911044..415		70911114..217		70911233..304	
70911041..300		70911043..524		70911044..420		70911115..63		70911309..121	
70911041..303		70911043..528		70911044..424		70911115..97		70911317..671	
70911041..311		70911043..529		70911044..437		70911115..99		70911327..217	
70911041..313		70911043..593		70911044..477		70911115..102		70911386..659	
70911041..348		70911043..595		70911044..483		70911115..117		70911435..147	
70911041..353		70911043..598		70911044..577		70911115..127		70911435..155	
70911041..354		70911043..249		70911044..228		70911115..129		70911435..139	
70911041..364		70911043..251		70911044..341		70911115..131		70911437..147	
70911041..367		70911043..291		70911044..395		70911115..148		70911437..155	
70911041..371		70911043..292		70911044..399		70911115..152		70911437..139	
70911041..377		70911043..299		70911044..574		70911115..155		70911452..521	
70911041..378		70911043..300		70911044..579		70911115..156		70911452..519	
70911041..379		70911043..303		70911044..602		70911115..165		70911699..635	
70911041..381		70911043..330		70911044..617		70911115..115		70911849..633	
70911041..382		70911043..335		70911044..17		70911115..213		70911978..601	
70911041..383		70911043..348		70911044..396		70911115..199		70911980..64	
70911041..383		70911043..349		70911044..400		70911115..460		70911980..65	
70911041..480		70911043..354		70911044..637		70911115..463		70911980..479	
70911041..486		70911043..355		70911045..224		70911115..468		70911982..393	
70911041..537		70911043..364		70911045..225		70911115..472		70912007..629	
70911041..553		70911043..371		70911045..464		70911115..477		70912169..62	
70911041..579		70911043..377		70911045..466		70911115..485		70912069..2098	
70911041..615		70911043..378		70911045..467		70911115..529		70912177..572	
70911041..297		70911043..379		70911045..482		70911115..542		70912178..571	
70911041..304		70911043..381		70911045..483		70911115..566		70912185..90	
70911041..337		70911043..382		70911045..228		70911115..575		70912192..601	
70911041..367		70911043..395		70911045..17		70911115..577		70912226..200	
70911041..371		70911043..397		70911045..456		70911115..245		70912226..203	
70911041..658		70911043..399		70911045..638		70911115..246		70912226..198	
70911041..659		70911043..480		70911045..640		70911115..257		70912262..368	
70911041..669		70911043..505		70911046..225		70911115..292		70912264..609	
70911043..90		70911043..513		70911046..467		70911115..300		70912267..261	
70911043..94		70911043..515		70911046..433		70911115..367		70912267..357D	
70911043..99		70911043..526		70911047..412		70911115..550		70912274..77	
70911043..101		70911043..527		70911047..463		70911115..561		70912274..78	
70911043..102		70911043..537		70911047..468		70911115..565		70912301..537	
70911043..102		70911043..541		70911047..475		70911115..579		70912319..351	
70911043..107		70911043..547		70911047..585		70911115..615		70912319..353	
70911043..108		70911043..549		70911048..163		70911115..297		70912324..154	
70911043..111		70911043..578		70911048..164		70911115..304		70912327..311	
70911043..112		70911043..583		70911048..165		70911115..367		70912327..313	
70911043..114		70911043..597		70911048..171		70911115..609		70912331..569	
70911043..117		70911043..601		70911048..172		70911115..610		70912331..572	
70911043..148		70911043..601		70911048..177		70911115..627		70912331..17	
70911043..151		70911043..615		70911048..393		70911115..628		70912333..25	
70911043..115		70911043..623		70911048..553		70911115..631		70912333..213A	
70911043..181		70911043..625		70911048..297		70911115..632		70912333..878	
70911043..186		70911043..297		70911048..375		70911115..659		70912415..215	
70911043..293		70911043..305		70911049..105		70911115..659B		70912415..123	
70911043..295		70911043..307		70911049..237		70911115..669		70912415..217	
70911043..334		70911043..371		70911049..243		70911168..89		70912415..219	
70911043..403		70911043..396		70911049..263		70911168..93		70912415..219B	
70911043..404		70911043..400		70911049..324		70911168..97		70912483..121	
70911043..407		70911043..401		70911049..558		70911168..99		70912483..207	
70911043..408		70911043..628		70911049..561		70911168..101		70912483..209	
70911043..411		70911043..629		70911049..565		70911168..107		70912497..437	
70911043..416		70911043..632		70911049..625		70911168..111		70912497..437	
70911043..437		70911043..633		70911051..404		70911168..114		70912497..439	
70911043..479		70911043..657		70911051..408		70911168..117		70912592..53	
70911043..483		70911043..659C		70911051..671		70911168..224		70912592..57	
70911043..487		70911043..669		70911053..614		70911168..227		70912725..84	
70911043..489		70911044..99		70911057..618		70911168..460		70912725..215	
70911043..490		70911044..102		70911058..618		70911168..464		70912725..34	
70911043..493		70911044..117		70911076..350		70911168..472		70912725..36	
70911043..494		70911044..124		70911097..384		70911168..476		70912725..217	
70911043..497		70911044..125		70911100..420		70911233..292		70912725..219	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70912725..219B		70913636..168		70914875..647		70915379..127		70915954..621	
70912726..215		70913636..175		70914875..648		70915380..107		70915955..621	
70912726..217		70913636..519		70914875..659		70915380..111		70915969..87	
70912726..219		70913676..231		70914892..173		70915380..112		70915985..637	
70912726..219B		70913676..199		70914906..648		70915380..127		70915987..43	
70912726..617		70913709..65		70914906..653		70915386..89		70915987..45	
70912739..539		70913717..221		70915017..645		70915386..90		70915987..213A	
70912739..543		70913798..235		70915121..172		70915386..93		70915987..87	
70912739..544		70913930..408		70915228..517		70915386..94		70915987..627	
70912742..538		70913930..245		70915228..669		70915386..148		70915987..631	
70912743..90		70913830..384		70915274..569		70915386..155		70915989..80	
70912768..32		70913830..385		70915274..571		70915399..203		70915989..295	
70912768..34		70913830..387		70915274..324		70915399..237		70915989..291	
70912768..36		70913830..654		70915274..235A		70915399..263		70915989..303	
70912770..617		70913984..245		70915275..209C		70915399..635		70915989..377	
70912772..112		70914087..209B		70915275..236		70915407..141		70915989..378	
70912772..121		70914108..645		70915275..243		70915408..209C		70915989..381	
70912789..549		70914108..651		70915275..450		70915408..49		70915989..382	
70912789..580		70914138..659B		70915275..245		70915408..219B		70915990..219B	
70912789..190		70914172..330		70915275..253		70915408..637		70916001..397	
70912808..450		70914172..652		70915275..257		70915432..121		70916001..507	
70912839..590		70914321..521		70915275..583		70915432..196		70916001..505	
70912840..15		70914330..525		70915276..625		70915433..23		70916009..48	
70912840..15		70914339..102		70915276..635		70915486..194		70916009..213	
70912900..389		70914339..348		70915291..147		70915488..194		70916014..177	
70912908..661		70914339..354		70915291..154		70915500..295		70916028..628	
70913030..134		70914339..364		70915343..209B		70915500..291		70916028..632	
70913092..507		70914392..221		70915367..89		70915500..299		70916028..664	
70913093..671		70914399..213A		70915367..93		70915500..303		70916146..525	
70913105..628		70914453..347		70915367..93		70915504..531		70916146..292	
70913105..632		70914453..359		70915367..94		70915534..254		70916146..300	
70913105..633		70914464..209C		70915367..145		70915534..253		70916146..296	
70913105..645		70914464..237		70915367..147		70915534..347		70916146..304	
70913105..651		70914465..236		70915367..148		70915534..350		70916202..161	
70913146..553		70914465..449		70915367..154		70915535..70		70916202..169	
70913177..648		70914465..467		70915367..155		70915535..74		70916202..175	
70913177..658		70914465..471		70915367..231		70915535..85		70916202..176	
70913189..199		70914465..476		70915367..121		70915535..254		70916202..239	
70913232..360		70914465..477		70915367..199		70915535..253		70916202..507	
70913249..623		70914465..245		70915367..557		70915556..194		70916202..508	
70913249..627		70914465..245		70915367..558		70915557..194		70916202..307	
70913249..629		70914465..253		70915368..145		70915560..347		70916203..119	
70913249..631		70914465..257		70915368..147		70915601..215		70916222..357D	
70913249..633		70914465..324		70915368..148		70915601..219		70916225..209B	
70913249..669		70914465..519		70915368..154		70915604..215		70916225..628	
70913280..17		70914465..611		70915368..201		70915634..385		70916225..632	
70913280..17		70914465..624		70915368..121		70915639..384		70916225..658	
70913289..141		70914465..625		70915368..199		70915666..24		70916227..345	
70913289..517		70914465..637		70915368..557		70915692..235		70916245..26	
70913300..517		70914465..643		70915368..558		70915707..173		70916257..217	
70913464..194		70914465..659		70915369..89		70915760..89		70916268..223	
70913471..569		70914474..265		70915369..90		70915760..93		70916268..513	
70913471..571		70914499..74		70915369..93		70915779..628		70916269..217	
70913472..571		70914499..215		70915369..94		70915779..632		70916271..48	
70913475..62		70914499..217		70915369..147		70915797..487		70916271..219B	
70913533..409		70914499..219		70915369..148		70915859..147		70916274..65	
70913544..44		70914503..360		70915369..155		70915859..201		70916274..48	
70913505..657		70914588..219E		70915369..121		70915859..199		70916274..219B	
70913611..348		70914593..245		70915369..557		70915872..539		70916277..51	
70913611..354		70914686..122		70915370..557		70915888..231		70916277..657	
70913636..89		70914687..267		70915371..145		70915894..621		70916277..658	
70913636..93		70914687..269		70915377..107		70915903..357D		70916286..141	
70913636..97		70914687..269		70915377..111		70915922..200		70916311..122	
70913636..99		70914767..621		70915377..112		70915922..203		70916311..137	
70913636..107		70914782..231		70915377..119		70915922..198		70916311..33	
70913636..111		70914805..521		70915377..127		70915923..200		70916311..34	
70913636..114		70914814..507		70915378..107		70915923..203		70916311..36	
70913636..117		70914814..607		70915378..127		70915923..198		70916311..48	
70913636..160		70914875..629		70915379..107		70915942..336		70916311..213A	
70913636..164		70914875..632		70915379..112		70915943..235		70916311..639	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70916311..641		70917151..373		70918111..164		70918951..87		70919134..23	
70916311..659		70917157..441		70918111..165		70918951..87B		70919134..122	
70916314..2098		70917177..24		70918111..168		70919040..139		70919134..186	
70916317..53		70917258..627		70918111..172		70919041..139		70919135..152	
70916317..213		70917258..631		70918111..553		70919048..25		70919136..221	
70916317..87B		70917260..193		70918157..608		70919062..97		70919140..562	
70916320..213A		70917264..311		70918188..450		70919062..99		70919140..561	
70916320..2098		70917264..313		70918210..581		70919062..101		70919140..561	
70916321..48		70917264..331		70918210..557		70919062..151		70919140..565	
70916322..213		70917323..139		70918210..558		70919062..152		70919143..7	
70916323..87B		70917330..310		70918210..580		70919062..156		70919143..8	
70916324..213A		70917330..312		70918232..69		70919062..123		70919143..9	
70916333..638		70917409..61		70918232..73		70919063..117		70919144..7	
70916333..640		70917409..62		70918234..347		70919063..129		70919155..6	
70916381..645		70917425..191		70918318..121		70919063..129		70919155..7	
70916381..651		70917426..317		70918325..89		70919063..131		70919155..8	
70916381..665		70917555..80		70918325..90		70919063..121		70919155..9	
70916383..669		70917555..82		70918325..93		70919063..123		70919156..6	
70916385..658		70917560..45		70918325..94		70919063..311		70919156..7	
70916385..659		70917626..2098		70918325..145		70919063..313		70919156..8	
70916387..659		70917546..384		70918325..147		70919064..258		70919156..9	
70916389..193		70917648..186		70918325..148		70919064..257		70919158..9	
70916419..633		70917648..615		70918325..154		70919064..348		70919159..9	
70916419..669		70917666..601		70918325..155		70919064..350		70919171..203	
70916420..623		70917666..658		70918325..201		70919064..351		70919171..334	
70916421..633		70917673..19		70918325..121		70919064..353		70919171..562	
70916422..628		70917673..23		70918325..199		70919068..566		70919171..561	
70916422..629		70917673..39		70918325..557		70919073..6		70919171..565	
70916422..633		70917673..137		70918325..558		70919073..7		70919171..190	
70916423..632		70917673..30		70918370..460		70919073..8		70919174..566	
70916424..628		70917673..43		70918370..464		70919074..6		70919174..190	
70916424..632		70917673..62		70918370..468		70919075..6		70919175..8	
70916424..633		70917691..347		70918370..472		70919075..6		70919175..8	
70916427..625		70917691..348		70918370..477		70919075..7		70919175..9	
70916427..645		70917692..347		70918395..2198		70919075..8		70919177..640	
70916427..651		70917735..239		70918471..604		70919075..9		70919180..240	
70916427..657		70917750..221		70918493..627		70919076..6		70919194..7	
70916428..632		70917761..70		70918493..628		70919076..7		70919194..8	
70916632..669		70917761..74		70918530..623		70919076..8		70919196..7	
70916897..292		70917762..85		70918530..624		70919076..9		70919196..8	
70916897..300		70917770..70		70918530..637		70919079..7		70919196..9	
70916897..296		70917770..85		70918564..107		70919079..8		70919200..9	
70916897..304		70917770..347		70918564..111		70919080..6		70919204..203	
70916897..307		70917770..350		70918564..112		70919080..7		70919205..123	
70916933..173		70917772..89		70918564..119		70919080..8		70919205..311	
70916955..205		70917772..93		70918564..127		70919081..7		70919205..313	
70916955..295		70917777..623		70918566..85		70919081..7		70919205..318	
70916955..291		70917803..557		70918566..254		70919081..8		70919205..318	
70916955..299		70917803..561		70918566..253		70919081..8		70919205..319	
70916955..303		70917803..565		70918566..347		70919082..7		70919205..319	
70916995..307		70917806..147		70918566..350		70919082..8		70919206..114	
70917010..210		70917806..155		70918605..347		70919082..9		70919207..7	
70917012..70		70917806..123		70918696..145		70919087..151		70919207..7	
70917013..58		70917806..139		70918697..878		70919093..194		70919218..7	
70917013..62		70917806..141		70918740..217		70919094..194		70919218..8	
70917014..59		70917809..147		70918740..219		70919099..194		70919219..409	
70917014..61		70917809..155		70918740..2198		70919100..194		70919223..33	
70917014..62		70917809..123		70918775..145		70919106..221		70919223..3570	
70917015..70		70917809..139		70918801..136		70919108..235		70919224..221	
70917020..31		70917809..141		70918850..19		70919127..97		70919224..44	
70917023..59		70917812..147		70918850..23		70919127..99		70919224..48	
70917023..62		70917812..155		70918850..137		70919127..101		70919224..57	
70917026..69		70917814..123		70918850..657		70919128..114		70919224..217	
70917026..73		70917841..62		70918851..23		70919128..114		70919224..219	
70917031..53		70917883..577		70918851..87		70919128..117		70919224..219B	
70917031..56		70917884..351		70918887..39		70919128..327		70919224..2098	
70917032..58		70917895..154		70918887..122		70919128..311		70919226..2198	
70917032..145		70917936..477		70918887..2098		70919128..313		70919228..136	
70917032..139		70917977..508		70918887..87		70919128..373		70919229..20	
70917038..364		70918111..160		70918888..87B		70919134..19		70919229..49	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
70919230..66		70920221..8		70920858..8		70921911..69		70923596..638	
70919231..213		70920222..6		70920862..7		70921911..73		70923596..640	
70919236..640		70920222..7		70920862..8		70921911..207		70923597..639	
70919244..293		70920232..7		70920863..9		70921911..217		70923597..641	
70919253..7		70920242..123		70920864..7		70921911..647		70923649..647	
70919254..7		70920242..141		70920864..8		70921912..351		70923649..659B	
70919254..7		70920257..386		70920864..9		70921912..392		70923651..213	
70919254..8		70920257..387		70920865..7		70921912..547		70923651..213A	
70919254..9		70920301..7		70920865..8		70921912..550		70923651..11	
70919268..258		70920301..9		70920867..6		70921912..553		70923664..627	
70919268..632		70920302..6		70920867..7		70921913..215		70923664..647	
70919269..669		70920302..6		70920867..8		70921913..219		70923664..653	
70919277..6		70920302..7		70920869..7		70921913..363		70923664..657	
70919277..7		70920302..8		70920872..9		70921913..392		70923664..659B	
70919277..8		70920303..6		70920874..8		70921913..627		70923664..659C	
70919278..6		70920303..7		70920875..7		70921913..631		70923718..878	
70919278..8		70920303..8		70920877..7		70921913..664		70923738..56	
70919281..6		70920303..9		70920879..9		70921914..224		70923813..125	
70919281..7		70920333..23		70920880..7		70921914..227		70923813..639	
70919281..8		70920333..122		70920880..8		70921914..390		70923814..638	
70919281..9		70920333..75		70920880..9		70921915..223		70923814..640	
70919282..6		70920333..2098		70920882..6		70921915..227		70923814..645	
70919282..7		70920333..374		70920882..8		70921916..183		70923814..651	
70919288..122		70920335..389		70920921..9		70921916..183		70923818..441	
70919303..141		70920335..519		70920928..8		70921916..181		70923821..341	
70919342..364		70920344..6		70920935..8		70921916..186		70923826..667	
70919342..367		70920344..8		70920935..9		70921919..183		70923827..449	
70919342..371		70920344..9		70920945..8		70921919..186		70923833..341	
70919342..367		70920416..208		70920945..9		70921919..601		70923836..646	
70919342..367		70920416..219		70920970..8		70922198..2198		70923836..652	
70919342..371		70920416..2198		70920973..8		70922199..219		70923934..11	
70919347..640		70920525..84		70920973..9		70922510..48		70923935..209B	
70919464..334		70920601..645		70920982..9		70922831..8		70924166..635	
70919467..7		70920601..651		70920986..9		70922831..9		70924166..667	
70919483..151		70920601..659B		70921033..6		70922985..532		70924226..3570	
70919615..310		70920604..628		70921033..7		70923280..61		70924227..3570	
70919615..312		70920606..645		70921034..6		70923376..374		70925108..532	
70919615..318		70920606..651		70921034..7		70923379..75		70925109..532	
70919615..319		70920606..657		70921042..8		70923379..141		70925110..532	
70919615..348		70920613..193		70921073..209B		70923379..141		73001085..637	
70919615..353		70920686..637		70921092..532		70923379..11		73001085..667	
70919615..353		70920686..667		70921093..532		70923548..374		73001090..635	
70919615..354		70920690..221		70921094..532		70923558..648		73001190..637	
70919615..367		70920693..348		70921118..627		70923558..653		73001119..624	
70919615..371		70920714..671		70921118..631		70923560..197		73001119..637	
70919615..373		70920795..8		70921160..357A		70923560..297		73001171..659	
70919615..367		70920795..9		70921276..311		70923563..374		73001532..637	
70919615..371		70920833..9		70921276..313		70923565..645		73001534..637	
70919624..310		70920836..6		70921277..566		70923565..651		73001538..637	
70919624..312		70920836..7		70921279..311		70923574..61		73001545..637	
70919625..631		70920936..8		70921279..313		70923574..375		73001716..657	
70919761..390		70920838..6		70921279..318		70923575..373		73001737..374	
70919766..137		70920843..7		70921279..319		70923575..390		73001850..637	
70919768..9		70920847..7		70921303..375		70923575..657		73002757..375	
70919772..9		70920847..9		70921304..8		70923577..359		73002766..330	
70919778..137		70920849..6		70921304..9		70923577..645		73002766..652	
70919797..141		70920849..7		70921330..389		70923577..647		73002767..652	
70919800..141		70920849..8		70921349..327		70923577..651		73002768..652	
70919801..75		70920850..6		70921400..262		70923577..654		73002769..330	
70919840..23		70920850..7		70921401..261		70923577..657		73002978..667	
70919840..122		70920850..8		70921402..327		70923577..658		73003911..657	
70919840..75		70920850..9		70921517..84		70923577..667		73004141..664	
70919840..213		70920852..6		70921520..61		70923578..627		73004549..637	
70919840..213A		70920852..8		70921556..193		70923578..631		73004586..624	
70919840..374		70920852..9		70921556..243		70923578..664		73004674..641	
70920155..9		70920855..7		70921556..249		70923578..667		73004706..657	
70920218..386		70920857..7		70921556..611		70923581..638		73004707..657	
70920218..387		70920857..8		70921573..327		70923581..643		73004708..657	
70920221..6		70920858..6		70921731..333		70923585..443		73004709..657	
70920221..7		70920858..7		70921840..364		70923596..637		73004711..657	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
73004720..657		73010529..667		73011279..8		73013194..635		73017778..632	
73004878..637		73010539..667		73011279..628		73013230..623		73017890..665	
73004981..624		73010540..667		73011279..632		73013293..624		73017946..658	
73004999..625		73010555..667		73011280..9		73013464..631		73017949..659	
73006744..646		73010570..628		73011280..628		73013491..623		73017959..9	
73006745..646		73010572..627		73011280..631		73013568..625		73017959..669	
73006854..8		73010574..627		73011282..9		73013610..629		73017963..659	
73006854..627		73010576..628		73011282..627		73013680..628		73018580..639	
73006854..631		73010586..667		73011282..631		73013682..9		73018581..639	
73007227..657		73010597..645		73011335..648		73013683..9		73018582..639	
73007228..657		73010603..648		73011338..627		73013683..627		73018583..639	
73007239..648		73010603..654		73011338..631		73013683..631		73018585..639	
73007239..653		73010609..647		73011340..627		73013784..639		73018585..641	
73007380..643		73010623..645		73011340..631		73013785..639		73018586..639	
73007380..646		73010645..667		73011342..628		73013787..639		73019231..652	
73007380..647		73010655..646		73011342..632		73013788..638		73019284..651	
73007380..652		73010655..652		73011344..628		73013790..639		73019303..652	
73007405..648		73010691..646		73011344..632		73013790..641		73019317..651	
73007405..653		73010691..652		73011349..647		73013791..638		73019342..651	
73007809..637		73010704..645		73011349..652		73013792..639		73019417..631	
73007884..625		73010706..667		73011356..647		73013878..639		73019418..632	
73007885..625		73010707..664		73011370..667		73013909..658		73019419..632	
73007914..624		73010707..667		73011506..627		73014007..374		73019420..632	
73007995..637		73010710..667		73011625..625		73014169..623		73019422..631	
73007996..637		73010712..667		73011715..665		73014395..646		73019428..627	
73008017..625		73010713..667		73011755..648		73015528..671		73019428..631	
73008136..627		73010729..643		73011789..646		73015609..667		73019430..627	
73008136..631		73010833..9		73011789..647		73015613..664		73019430..631	
73008138..635		73010837..627		73011789..648		73015614..665		73019480..659	
73008139..635		73010837..628		73011789..652		73015865..643		73019486..658	
73008140..635		73010837..647		73011845..628		73015925..639		73019571..633	
73008141..635		73010837..648		73011878..641		73015970..623		73019598..646	
73008144..635		73010848..658		73011910..639		73016070..653		73019598..652	
73008145..635		73010849..658		73011910..641		73016070..659C		73019646..669	
73008146..635		73010851..658		73011911..639		73016277..646		73019646..669	
73008147..635		73010852..658		73011923..646		73016277..652		73019666..669	
73008148..635		73010853..658		73011928..647		73016278..646		73019683..645	
73008154..635		73010854..658		73011930..647		73016278..652		73019683..651	
73008156..635		73010855..657		73011931..627		73016294..664		73019696..648	
73008158..635		73010856..658		73011931..631		73016310..647		73019750..669	
73008159..635		73010857..657		73011952..639		73016311..647		73019755..669	
73008160..635		73010862..657		73011952..641		73016312..647		73019977..646	
73008165..635		73010863..657		73011997..628		73016313..647		73019977..652	
73008174..635		73010864..657		73012153..623		73016314..647		73020107..669	
73008421..671		73010865..657		73012154..623		73016315..647		73020506..646	
73008880..671		73010866..657		73012155..623		73016316..647		73020506..652	
73009094..623		73010867..657		73012166..665		73016317..647		73020521..646	
73009127..635		73010871..648		73012171..658		73016330..647		73020521..652	
73009228..635		73010871..654		73012173..643		73016335..628		73020542..624	
73009270..637		73010878..648		73012461..648		73016335..647		73021748..617	
73009508..637		73010920..628		73012461..653		73016341..647		73021400..659	
73009561..625		73010921..645		73012545..633		73016347..653		73021519..658	
73009568..623		73010941..646		73012545..633		73016347..659C		73021852..653	
73009570..625		73010972..8		73012554..635		73016351..623		73023433..669	
73009664..8		73010972..664		73012554..667		73016352..623		73023434..669	
73009664..627		73010979..8		73012605..638		73016354..623		73023657..639	
73009664..631		73010979..665		73012648..639		73016357..623		73023871..641	
73009666..8		73011020..643		73012648..641		73016358..623		73024099..669	
73009666..628		73011021..643		73012681..639		73016359..623		73025343..639	
73009666..632		73011022..643		73012743..671		73016394..653		73025343..641	
73009667..8		73011023..643		73012845..639		73016394..659C		73025344..643	
73009667..628		73011024..643		73012869..9		73016457..637		73025658..623	
73009667..632		73011026..643		73012869..627		73016458..637		73026236..637	
73009818..662		73011027..643		73012869..631		73016462..625		73028864..640	
73010360..667		73011114..665		73012944..646		73016486..627		73029708..638	
73010412..625		73011162..623		73012944..652		73016607..647		73029708..640	
73010430..624		73011243..628		73013079..648		73016858..646		73029713..641	
73010431..624		73011243..632		73013122..646		73017021..629		73029714..641	
73010481..646		73011248..637		73013122..652		73017351..653		73029715..641	
73010482..646		73011263..647		73013193..637		73017778..628		73029718..641	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
73029770..641		74047783..315		74119937..49		74255631..11	74348269..87
73029771..638		74047992..133		74250898..31		74255665..137	74348270..85
73029771..640		74047993..132		74251601..59		74255665..11	74348270..87
73029773..640		74047994..132		74251601..62		74255904..35	74348440..54
73029774..641		74047995..133		74251601..10		74255904..37	74348440..57
73029777..641		74047996..133		74252682..48		74255904..10	74348440..57
73029778..641		74047997..133		74252761..87		74255904..11	74348580..70
73029783..641		74048000..133		74253195..85		74255956..141	74348682..79
73029918..641		74048000..315		74253195..87		74255956..10	74348683..79
73029919..641		74048001..133		74253270..191		74300570..20	74348684..79
73029920..641		74048002..132		74253286..137		74300570..20	74348691..62
73029921..641		74048003..132		74253286..135		74300570..24	74348691..77
73029922..641		74048793..317		74253317..34		74301519..59	74348691..78
73031984..633		74048794..317		74253317..37		74303038..33	74348691..78
73031985..633		74049282..142		74253318..209D		74303038..53	74348691..79
73035515..632		74049469..317		74253348..39		74303038..57	74349376..139
73035516..632		74049470..317		74253457..215		74303199..19	74349984..69
73038306..654		74049471..317		74253464..211		74303199..23	74349984..72
73039053..357A		74049472..317		74253464..213		74303737..33	74349984..75
73041566..639		74050516..142		74253510..64		74304902..553	74350533..139
73041566..641		74050517..142		74253510..65		74304932..554	74352301..139
73045531..190		74050519..142		74253643..26		74310257..20	74353538..80
73052771..646		74050520..142		74253643..12		74310257..24	74353538..82
73052771..652		74050523..142		74253643..28		74310257..25	74354449..25
73054059..646		74050524..142		74253668..217		74310257..205	74355843..134
73054059..652		74050526..142		74253721..59		74310257..223	74355843..137
74001318..53		74050857..142		74253751..70		74310257..227	74360048..19
74001318..56		74051483..122		74253751..70		74310257..10	74360048..23
74001360..215		74051483..118		74253751..74		74310257..11	74360051..19
74002453..51		74051483..121		74253751..87		74313015..219	74360051..23
74005193..20		74051484..122		74253838..49		74313015..219B	74360457..33
74005425..54		74051484..118		74253862..235		74314562..219	74360457..35
74005425..57		74051484..121		74253863..569		74317554..219	74360457..37
74014655..211		74051485..118		74253863..571		74317554..219B	74360867..26
74014655..219		74051485..123		74253863..235		74331522..24	74360867..29
74016034..139		74051839..142		74253870..205		74335022..25	74360955..53
74027416..49		74052167..209D		74253871..209D		74335352..87	74360955..57
74030481..215		74052167..209		74253871..205		74335557..123	74361537..10
74030481..205		74052173..120		74253871..209		74335557..9	74361591..183
74030481..207		74052173..123		74253877..63		74335573..138	74361591..187
74030481..10		74052174..120		74253977..65		74335600..78	74361551..181
74040006..69		74052174..123		74253978..63		74335600..79	74361551..10
74040007..68		74053409..878		74253978..65		74335610..79	74361740..48
74040008..69		74053410..878		74254098..107		74335666..87	74361740..209B
74040009..68		74054566..221		74254098..112		74335666..87B	74361740..10
74040010..69		74054567..221		74254098..119		74335669..62	74361740..11
74040013..120		74054568..221		74254100..209D		74335491..49	74361829..62
74040013..118		74054569..221		74254100..209		74336897..35	74361978..211
74040013..123		74055031..221		74254100..209B		74336897..37	74362310..30
74040094..138		74055032..221		74254295..53		74336897..10	74362458..217
74040096..138		74055033..221		74254295..57		74336897..11	74362458..219
74040098..138		74055034..221		74254363..54		74338143..53	74362458..219B
74040099..138		74055332..221		74254363..57		74338858..219B	74362458..10
74041092..208		74055565..118		74254580..121		74339021..878	74362641..33
74041092..209D		74055565..123		74254580..223		74339193..79	74362726..59
74041097..209D		74055913..121		74254654..357B		74339203..79	74362726..61
74041397..209		74055913..123		74254670..209B		74339204..79	74362726..61
74041398..209		74055920..120		74254742..62		74340903..65	74362726..62
74041099..209		74055920..123		74254891..48		74346208..191	74363280..215
74041103..84		74055971..878		74254948..209C		74346208..193	74363488..205
74041103..87		74105453..51		74255010..223		74347190..70	74363489..205
74041209..317		74113897..19		74255031..209B		74347751..209B	74363761..138
74041520..68		74113897..24		74255031..357A		74347752..209B	74363817..139
74041520..72		74113897..10		74255170..223		74347790..120	74363977..135
74041523..68		74113897..11		74255171..221		74347790..118	74364130..40
74041523..72		74115449..70		74255338..209C		74347897..31	74364131..20
74042381..235		74115449..70		74255338..209		74347938..79	74364131..25
74047538..138		74115449..73		74255363..19		74348268..85	74364131..40
74047782..133		74119937..20		74255511..75		74348268..87	74364131..10
74047783..133		74119937..24		74255631..75		74348269..85	74364131..10

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
74364132..53		74367090..10		74371107..34		74371716..136		74372864..43	
74364166..61		74367090..11		74371107..36		74371717..137		74372864..141	
74364166..62		74367162..51		74371112..26		74371717..135		74372866..139	
74364271..20		74367187..178		74371114..39		74371718..134		74372867..139	
74364271..24		74367187..179		74371116..205		74371718..137		74372873..121	
74364378..39		74367606..191		74371116..209		74371719..134		74372900..120	
74364379..39		74368154..59		74371118..59		74371719..137		74373042..44	
74364385..39		74368154..61		74371118..61		74371720..134		74373069..67	
74364386..39		74368154..61		74371119..61		74371720..137		74373069..11	
74364387..39		74368154..62		74371119..62		74371721..134		74373266..205	
74364390..39		74368204..20		74371121..138		74371721..137		74373266..209	
74364404..59		74368204..24		74371150..211		74371740..59		74373270..135	
74364404..61		74368205..20		74371160..213		74371740..61		74373326..50	
74364421..39		74368205..24		74371160..11		74371742..11		74373330..51	
74364422..54		74368206..20		74371250..81		74371768..63		74373330..50	
74364422..57		74368206..24		74371252..82		74371768..65		74373332..51	
74364459..53		74368323..59		74371253..77		74371795..317		74373491..39	
74364460..53		74368336..26		74371253..78		74371860..178		74373510..51	
74364465..40		74368610..70		74371255..66		74371872..69		74373511..51	
74364864..49		74368928..205		74371270..81		74371874..69		74373515..51	
74364930..32		74369002..20		74371270..80		74371874..73		74373604..69	
74364930..34		74369002..24		74371270..82		74371882..215		74373604..73	
74364930..36		74369005..205		74371274..78		74371886..215		74373606..70	
74365129..66		74369007..205		74371281..78		74371887..205		74373606..73	
74365140..32		74369010..205		74371288..69		74371890..73		74373607..70	
74365140..34		74369012..205		74371289..66		74371891..69		74373607..73	
74365140..36		74369618..205		74371289..11		74371891..73		74373608..70	
74365281..61		74369519..205		74371293..77		74371892..69		74373608..73	
74365565..53		74369620..205		74371297..78		74371897..215		74373609..70	
74365611..32				74371297..82		74371897..10		74373609..73	
74365627..59		74369655..31		74371300..80		74371937..80		74373610..70	
74365627..62		74369702..59		74371300..82		74371973..317		74373610..74	
74365676..58		74369705..59		74371313..82		74371974..317		74373510..87	
74365676..9		74369712..61		74371318..80		74372067..135		74373611..70	
74365678..58		74369712..62		74371318..82		74372113..138		74373611..73	
74365678..9		74369739..59		74371323..64		74372236..69		74373612..70	
74365787..39		74369746..59		74371323..65		74372262..39		74373612..73	
74365831..191		74369746..62		74371324..64		74372325..84		74373612..87	
74365837..33		74369751..59		74371324..65		74372325..87		74373613..70	
74365851..39		74369751..62		74371345..77		74372325..878		74373613..73	
74365852..53		74369761..59		74371345..77		74372351..133		74373613..87	
74365862..32		74369762..59		74371345..78		74372389..215		74373613..878	
74365868..31		74369764..59		74371345..79		74372421..208		74373614..70	
74365926..35		74369765..132		74371345..11		74372421..209		74373614..73	
74365957..53		74369806..210		74371359..20		74372427..211		74373614..87	
74366074..53		74369814..211		74371359..25		74372428..211		74373616..51	
74366076..53		74369828..211		74371390..39		74372429..211		74373619..51	
74366181..31		74369830..211		74371399..85		74372429..11		74373624..51	
74366182..31		74369871..26		74371404..85		74372431..64		74373645..205	
74366189..139		74369871..12		74371405..85		74372451..63		74373677..70	
74366190..139		74369896..59		74371408..51		74372453..70		74373677..73	
74366191..139		74369981..215		74371430..70		74372515..19		74373699..211	
74366194..139		74371021..84		74371432..70		74372515..23		74373706..80	
74366243..191		74371021..87		74371440..63		74372517..317		74373707..77	
74366244..193		74371021..878		74371441..40		74372546..133		74373707..80	
74366244..10		74371026..70		74371444..49		74372552..32		74373718..80	
74366244..10		74371027..70		74371445..49		74372630..33		74373718..80	
74366249..139		74371027..74		74371472..30		74372725..39		74373716..35	
74366308..191		74371027..85		74371503..30		74372728..107		74373716..37	
74366314..57		74371027..209C		74371554..20		74372728..112		74373723..206	
74366461..25		74371027..49		74371599..30		74372728..119		74373724..210	
74366551..39		74371027..207		74371672..121		74372730..121		74373747..571	
74366551..44		74371027..11		74371707..209		74372734..118		74373770..67	
74366656..26		74371036..85		74371707..235		74372758..121		74373894..79	
74366656..12		74371036..87		74371712..134		74372764..121		74373969..19	
74366758..40		74371040..84		74371714..134		74372780..79		74374018..53	
74366758..44		74371054..39		74371714..136		74372800..33		74374018..57	
74366814..39		74371054..10		74371715..134		74372800..35		74374018..78	
74367090..59		74371107..32		74371715..137		74372832..69		74374127..77	
74367090..61		74371107..191		74371716..134		74372864..40		74374129..77	

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
74374129..	79	74375718..	215	74376520..	215	74376934..	68	74377673..	26
74374166..	77	74375720..	40	74376520..	217	74376934..	72	74377673..	29
74374324..	19	74375720..	10	74376520..	219	74376936..	69	74377690..	134
74374390..	30	74375755..	205	74376520..	2198	74376936..	72	74377691..	134
74374391..	30	74375755..	207	74376520..	10	74376991..	75	74377909..	45
74374418..	215	74375790..	40	74376521..	215	74376999..	65	74377951..	221
74374446..	31	74375865..	191	74376525..	215	74377000..	17	74377956..	123
74374447..	31	74375865..	10	74376526..	44	74377005..	43	74377961..	123
74374448..	31	74375919..	50	74376529..	137	74377012..	141	74377963..	123
74374450..	31			74376538..	57	74377013..	141	74378021..	142
		74375931..	39	74376540..	57	74377014..	141	74378021..	143
74374451..	31	74375937..	40	74376545..	45	74377015..	141	74378031..	142
74374452..	31	74375937..	44	74376546..	45	74377016..	141	74378031..	143
74374488..	35	74375938..	40	74376560..	141	74377017..	141	74378031..	10
74374488..	37	74375960..	31	74376560..	141	74377021..	25	74378032..	143
74374499..	78	74375962..	31	74376578..	10	74377037..	80	74378033..	143
74374529..	59	74375963..	31	74376578..	10	74377038..	80	74378034..	143
74374547..	77	74375966..	205	74376584..	57	74377039..	81	74378062..	11
74374547..	78	74375966..	207	74376590..	62	74377039..	82	74378069..	213
74374560..	19	74375967..	207	74376591..	62	74377039..	82	74378070..	213
74374564..	79			74376596..	61				
		74375968..	207	74376598..	61	74377050..	82	74378070..	213A
74374588..	48	74375970..	207	74376599..	61	74377054..	82	74378071..	213A
74374735..	84	74375972..	207	74376603..	62	74377056..	77	74378104..	217
74374735..	87	74375974..	31	74376603..	61	74377056..	80	74378190..	65
74374856..	26	74375975..	31	74376603..	11	74377056..	82	74378258..	65
74374933..	54	74375976..	31	74376604..	62	74377078..	39	74378265..	44
74374959..	39	74375977..	31	74376605..	133	74377102..	140	74378266..	44
74375052..	59	74375980..	31	74376605..	310	74377110..	17	74378269..	217
74375080..	205	74375981..	31	74376605..	312	74377120..	24	74378278..	213
74375279..	205	74375982..	31	74376605..	11	74377121..	133	74378280..	57
74375368..	50								
		74375983..	31	74376608..	48	74377122..	61	74378307..	84
74375501..	49	74375985..	31	74376609..	48	74377153..	137	74378307..	87
74375540..	34	74375986..	31	74376609..	11	74377153..	9	74378357..	27
74375540..	36	74375987..	31	74376615..	28	74377167..	77	74378357..	29
74375566..	79	74375988..	31	74376619..	44	74377201..	77	74378358..	27
74375574..	51	74376056..	84	74376623..	28	74377248..	213	74378358..	29
74375574..	51	74376100..	210	74376627..	62	74377252..	141	74378359..	27
74375576..	58	74376111..	121	74376642..	43	74377253..	141	74378359..	29
74375613..	78	74376111..	9	74376643..	43	74377254..	141	74378360..	27
74375629..	78	74376118..	217	74376656..	65	74377257..	141	74378360..	29
74375632..	77								
74375651..	69	74376143..	84	74376656..	10	74377265..	141	74378361..	27
		74376276..	53	74376667..	132	74377266..	141	74378361..	29
74375651..	72	74376276..	57	74376671..	61	74377267..	141	74378376..	26
74375652..	139	74376277..	53	74376677..	140	74377276..	62	74378376..	28
74375659..	211	74376277..	57	74376678..	140	74377278..	62	74378377..	26
74375660..	73	74376278..	53	74376679..	140	74377320..	19	74378377..	29
74375662..	74	74376278..	57	74376702..	62	74377320..	23	74378378..	217
74375662..	74	74376294..	77	74376713..	141	74377321..	19	74378408..	37
74375664..	85	74376338..	121	74376716..	141	74377321..	23	74378409..	37
74375664..	85	74376398..	205	74376742..	123	74377322..	19	74378423..	621
74375668..	19								
74375668..	19	74376398..	207	74376742..	9	74377322..	23	74378522..	217
74375668..	23	74376398..	209	74376749..	25	74377324..	19	74378558..	77
74375678..	215	74376398..	2098	74376749..	44	74377325..	19	74378558..	78
74375679..	19	74376398..	11	74376749..	10	74377325..	23	74378558..	79
		74376404..	63	74376749..	11	74377382..	141	74378592..	77
74375679..	23	74376405..	40	74376749..	878	74377382..	141	74378770..	141
74375681..	19	74376428..	121	74376776..	81	74377387..	10	74378836..	217
74375681..	23	74376430..	63	74376809..	213A	74377387..	11	74378843..	213
74375682..	208	74376430..	10	74376811..	217	74377389..	10	74378897..	43
74375682..	209D	74376480..	43	74376811..	219	74377455..	213A	74378981..	36
74375685..	209								
74375685..	209	74376483..	217	74376811..	2198	74377456..	132	74378981..	36
74375686..	208	74376483..	219	74376811..	11	74377457..	123	74379026..	44
74375686..	209D	74376483..	10	74376813..	75	74377457..	9	74379026..	10
74375690..	209	74376484..	43	74376815..	75	74377458..	123	74379038..	137
74375691..	209D	74376484..	43	74376829..	78	74377458..	9	74379070..	67
		74376486..	43	74376829..	82	74377458..	9	74379074..	44
74375691..	209	74376497..	44	74376839..	191	74377515..	123	74379074..	44
74375694..	209D	74376498..	57	74376892..	191	74377540..	44	74379076..	137
74375694..	209	74376498..	57	74376892..	191	74377541..	57	74379123..	66
74375695..	209	74376508..	40	74376893..	43	74377542..	44	74379141..	25
74375703..	73	74376508..	44	74376893..	45	74377645..	213	74379167..	10
74375703..	73								
74375704..	73								
74375705..	73								
74375706..	73								
74375707..	211								
74375716..	215								

NUMERICAL INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
74379178..20		74385674..44		74386950..213A		74389062..213A		74660355..215	
74379178..20		74385698..12		74386957..213		74389108..61		74660355..10	
74379178..24		74385715..78		74387050..209D		74389113..122		74660358..19	
74379178..24		74385716..57		74387051..209D		74389129..75		74660358..23	
74379178..12		74385734..12		74387171..35		74389172..123		74660369..54	
74379179..20		74385734..28		74387171..37		74389201..33		74660369..57	
74379179..25		74385752..39		74387172..37		74389201..37		74660389..19	
74379197..25		74385754..30		74387189..23		74389291..11		74660389..23	
74379198..25		74385760..26		74387254..208		74389349..29		74660389..23	
74379241..20		74385801..136		74387254..207		74389359..209		74660390..53	
74379241..25		74385803..136		74387255..209		74389809..25		74660390..56	
74379268..878		74385933..221		74387256..209		74389910..40		74660423..78	
74379269..878		74385938..219		74387294..2098		74389910..44		74660423..11	
74379270..26		74385938..219B		74387384..140		74389931..53		74660429..33	
74379270..29		74385949..219		74387414..43		74389931..56		74660429..11	
74379276..29		74385971..78		74387415..43		74389939..80		74660440..19	
74379277..27		74385971..82		74387469..53		74389941..77		74660440..23	
74379277..12		74385973..82		74387469..56		74389941..80		74660440..23	
74379291..25		74385982..221		74387474..221		74389943..23		74660457..58	
74379305..57		74385985..213		74387503..43		74389954..56		74660457..11	
74379320..45		74385994..213A		74387584..43		74389963..29		74660478..209	
74379411..81		74386041..179		74387585..43		74389986..61		74660492..49	
74379414..80		74386055..219		74387586..43		74390011..29		74660492..11	
74379415..81		74386137..215		74387587..43		74390043..43		74660517..20	
74379443..82		74386137..219		74387605..209D		74390171..33		74660517..24	
74379444..81		74386137..219B		74387606..209D		74390171..35		74660517..11	
74379572..140		74386137..10		74387607..209B		74390171..37		74660564..20	
74379610..82		74386137..10		74387609..209D		74390270..57		74660564..24	
74379657..28		74386198..221		74387697..178		74390623..140		74660564..11	
74379658..28		74386199..221		74387697..179		74391019..62		74660677..209D	
74379662..29		74386200..221		74387723..48		74391038..87B		74660677..205	
74379666..23		74386282..20		74387733..37		74391146..87B		74660677..209	
74379740..44		74386282..24		74387807..223		74392279..217		74661328..54	
74379741..44		74386282..12		74387993..209C		74392279..219		74661329..54	
74379742..24		74386310..10		74388109..123		74392279..219B			
74379744..44		74386370..43		74388154..59		74392279..10			
74379813..134		74386370..10		74388154..61		74393564..48			
74379813..136		74386459..23		74388202..40		74500230..19			
74379834..78		74386495..70		74388234..33		74500230..23			
74379916..215		74386495..74		74388205..40		74500270..78			
74379916..217		74386495..213		74388205..44		74501149..139			
74380198..143		74386495..11		74388359..12		74503600..32			
74380445..138		74386497..45		74388359..29		74503600..31			
74380652..143		74386525..79		74388363..12		74503600..34			
74385093..223		74386640..75		74388434..2098		74503600..36			
74385227..59		74386642..75		74388508..30		74506165..317			
74385299..44		74386740..43		74388518..209B		74506426..139			
74385300..57		74386740..46		74388520..45		74506607..20			
74385301..43		74386740..10		74388525..45		74506607..25			
74385355..43		74386776..53		74388532..30		74507359..141			
74385360..39		74386776..56		74388563..217		74507415..141			
74385424..12		74386779..219B		74388563..219		74509035..77			
74385424..28		74386781..30		74388563..2198		74509035..77			
74385469..191		74386824..209B		74388809..878		74509035..78			
74385480..57		74386827..217		74388810..878		74509035..78			
74385481..57		74386827..219		74388836..878		74509035..79			
74385482..57		74386827..219B		74388848..878		74511204..138			
74385485..20		74386855..2098		74388954..77		74511204..10			
74385485..24		74386860..209D		74388954..80		74511213..143			
74385485..12		74386861..209		74388974..87		74511217..138			
74385496..45		74386862..209D		74388975..87		74511243..143			
74385497..45		74386862..209		74389040..25		74513810..2098			
74385520..211		74386864..75		74389051..122		74514110..135			
74385520..213		74386879..59		74389052..30		74611458..211			
74385520..11		74386879..62		74389053..53		74612563..69			
74385536..78		74386881..2198		74389054..80		74640973..235			
74385537..78		74386891..2198		74389055..59		74640975..235			
74385541..213		74386894..2198		74389055..61		74640976..235			
74385543..87		74386924..209D		74389058..20		74640978..235			
74385667..43		74386948..179		74389058..24		74660344..10			

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