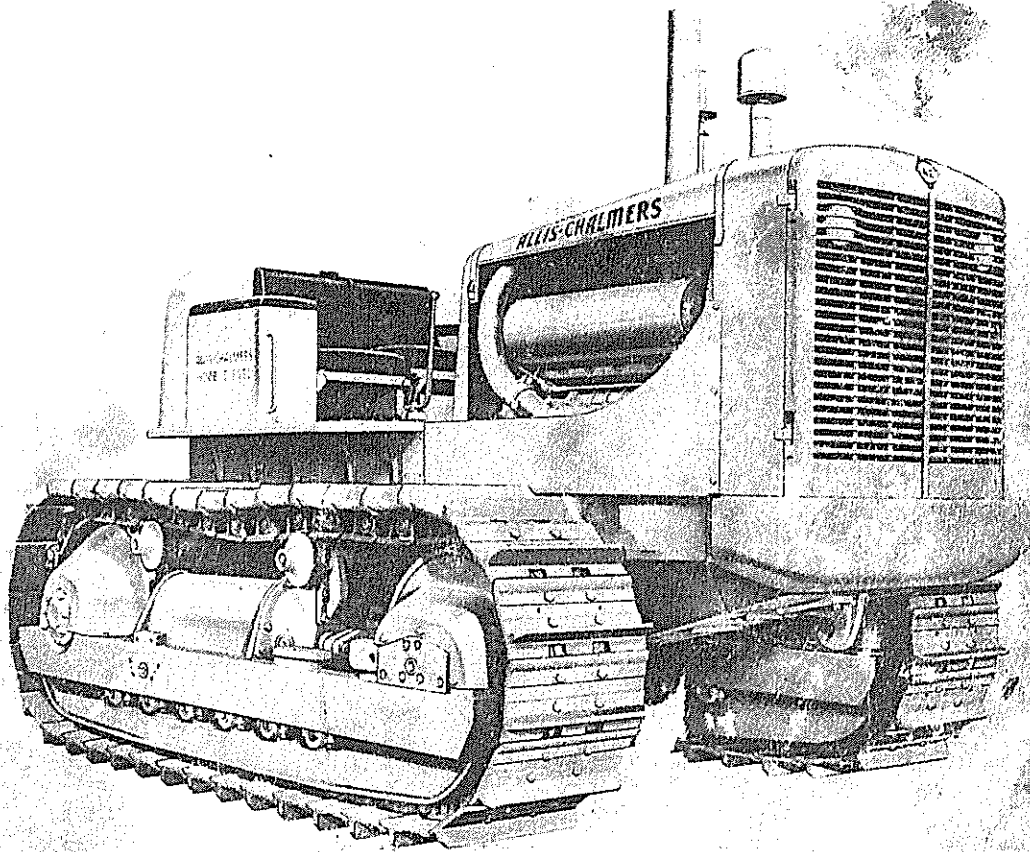


**REPAIR PARTS CATALOG
FOR
MODEL HD 20 TRACTOR**



ALLIS-CHALMERS MFG. CO.
TRACTOR DIVISION
MILWAUKEE, WISCONSIN, U. S. A.

LITHO. IN U. S. A.

FORM TPL-229B

TRACTOR MODELS

Several distinct models of the HD20 tractor are available and this Repair Parts Catalog has been prepared to show the parts for each. 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.

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

DESCRIPTION	MODEL SYMBOL
Short Track (37 links), Oscillating Truck Frames	HD20H
Long Track (40 links), Rigid Truck Frames	HD20F
Long Track (40 links), Rigid Truck Frames, equipped with TRACTOMOTIVE Front Shovel*	HD20G

*Order all parts for TRACTOMOTIVE SHOVEL and Hydraulic System from Tractomotive Corporation, Deerfield, Illinois or from nearest authorized Dealer.

SERIAL NUMBERS

The tractor serial number is stamped on the rear face of the steering clutch housing at the upper right hand corner, and on a small plate attached to the cowl, facing the operator.

The engine serial number is stamped on the left hand side of the cylinder block near the top rear corner.

ALLIS-CHALMERS WARRANTY

"ALLIS-CHALMERS MANUFACTURING COMPANY warrants that it will repair f.o.b. its factory, or furnish without charge f.o.b. its factory, a similar part to replace any material in its machinery which within six months after the date of sale by the Dealer, is proven to the satisfaction of the Company to have been defective at the time it was sold, provided that all parts claimed defective shall be returned properly identified to the Company's Factory, charges prepaid.

"This warranty is the only warranty, either express or implied, upon which said machinery is purchased. No other warranty has been made or exists, either expressly or by implication, all statutory and implied warranties being hereby expressly waived and excluded from this transaction, and the Company's liability in connection with this transaction is expressly limited to the repair or replacement of defective parts, all other damages, statutory or otherwise, being hereby expressly waived.

"This warranty applies only to new and unused machinery, which, after shipment from the factory of the Company, has not been altered, changed, repaired, or treated in any manner whatsoever. No warranty of any kind, statutory, implied or otherwise, shall apply to trade accessories, attachments, tools, or implements not manufactured by the Company, or to second-hand machinery, or to new and unused machinery, which, after shipment from the Factory of the Company, has been altered, changed, repaired, or treated in any manner whatsoever.

"No representative of the Company has authority to change this warranty or this contract in any manner whatsoever, and no attempt to repair or promise to repair or improve the machinery covered by this contract by any representative of the Company shall waive any consideration of the contract, or change or extend this warranty in any manner whatsoever."

The extreme right hand column in the parts list entitled "KIT NO." indicates if an individual part is also available as a part of a KIT or SET. All numbers shown in this column are listed numerically in the back of this catalog with the quantity and description of the various parts that make up the KIT or SET.

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

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

ALWAYS GIVE THE TRACTOR AND ENGINE SERIAL NUMBERS WHEN ORDERING PARTS.

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

Order parts from the dealer covering the local territory.

Repairs 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.

Always state 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.

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 and not with Allis-Chalmers Manufacturing 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 tractors already delivered.

TELEGRAPHIC CODE

In sending wire orders, it is important that a one-word description of the part wanted be specified after each part number. In event the message is received with incorrect part number, it will help us to ascertain the part actually required. Confirm each telegraphic order by mail in order that it may be checked and if not correctly transmitted, the error detected.

Shipping or other instructions in the body of a telegram which normally consists of many words, can be condensed into one by the use of the proper code word as given below.

AIRYX - Ship by Air Express
SONST - Ship to me (us) by Express
SOOTY - Ship by Express to
SOYON - Ship to me (us) by Mail
SOBOS - Ship by Mail to
SORAT - Ship to me (us) by freight
SAPAT - Ship by Freight to
SPLAT - When and how did you ship parts on my (our) order
SPATS - When and how will you ship parts on my (our) order
STAUB - Cancel my (our) parts order
STUFE - Add to my (our) parts order
SOMOR - Duplicate shipment of my (our) order

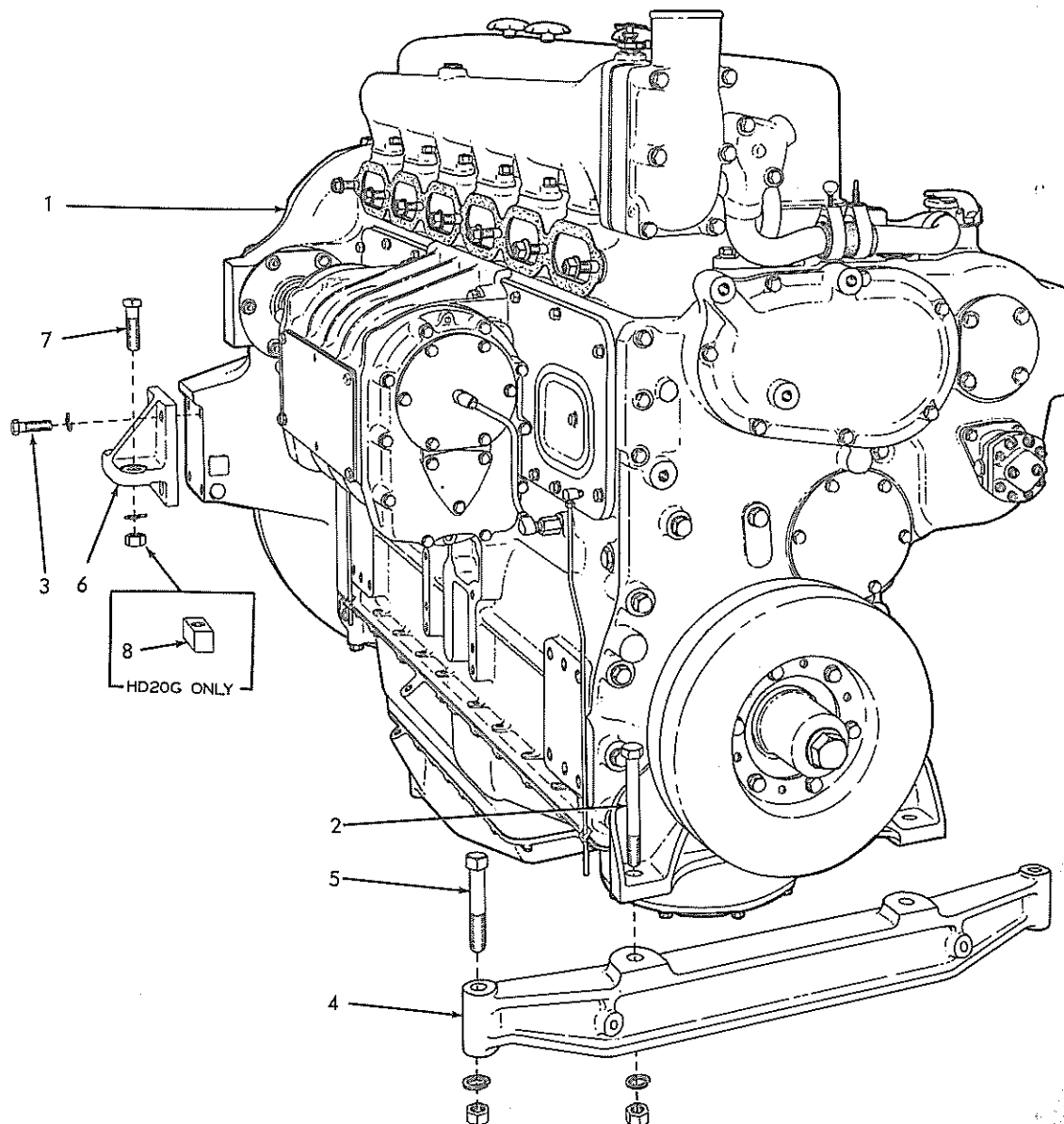
LIST OF ABBREVIATIONS

assy assembly
cd-pltd cadmium plated
cm centimeter
cont'd continued
cop-asb copper-asbestos
c.p. candle-power
ctsk-hd countersunk head
diam diameter
EF (threads) Extra Fine
fil-hd filister head
ft foot or feet
gal gallon
hex-hd hexagonal head
I. D inside diameter
in. inch

lb pound
mm millimeter
NC (threads) National Coarse
NF (threads) National Fine
No. number
NPT. National Pipe Thread
O. D. outside diameter
oz ounce
rd-hd round head
rpm revolutions per minute
SAE Society of Automotive Engineers
sq-hd square head
std standard
T. teeth
V. volt

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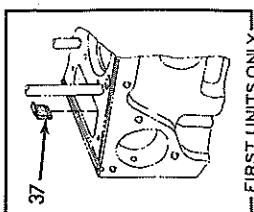
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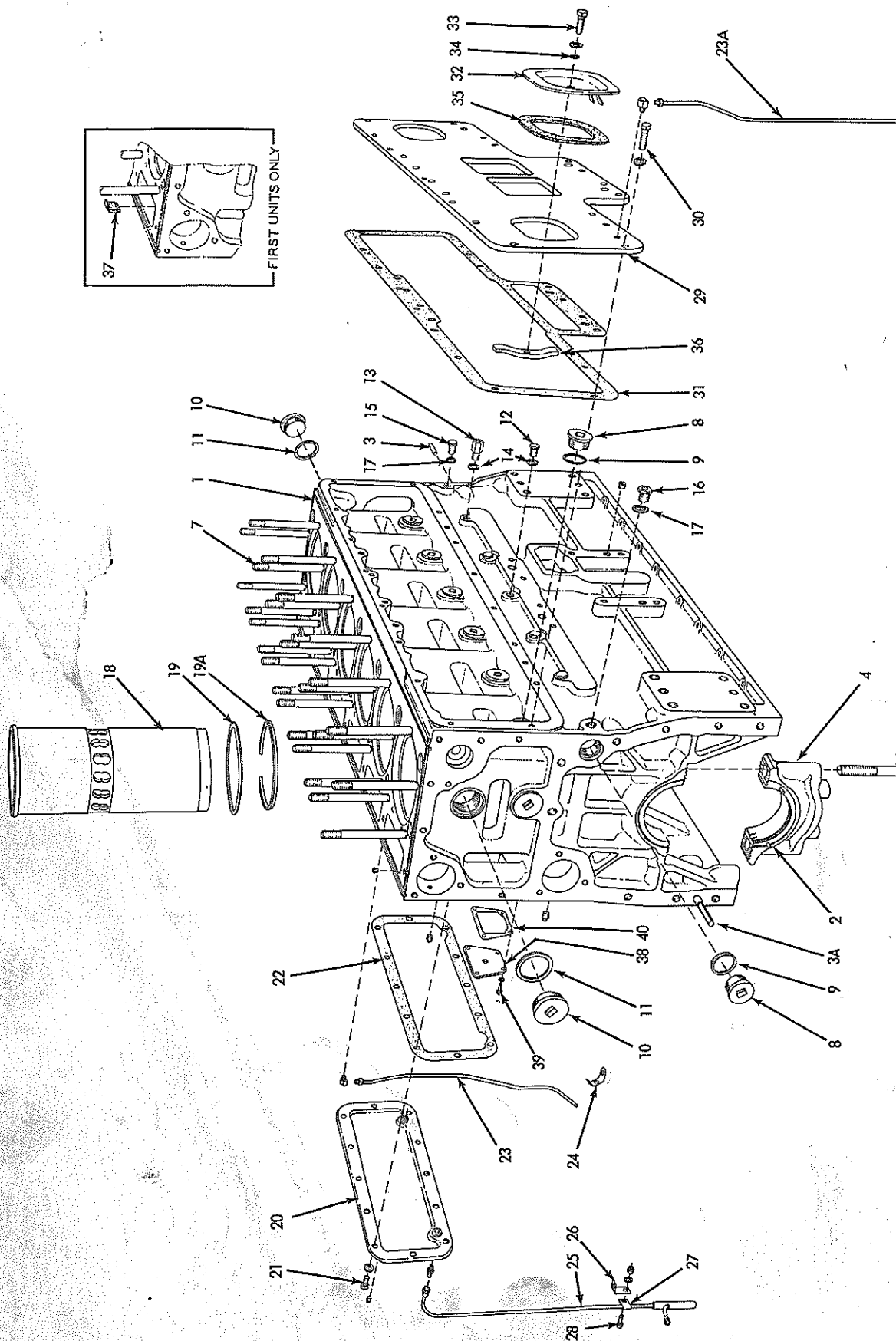
ENGINE AND MOUNTING

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	067867	1	ENGINE ASSEMBLY (Less FAN but including BLOWER, oil COOLER, GOVERNOR, MANIFOLDS, fuel PUMP and water PUMP)
2	071987	2	CAPSCREW, 5/8"NF x 5"
	904209	2	LOCKWASHER, 5/8"
	911044	2	NUT, 5/8"NF
3	036707	8	CAPSCREW, 5/8"NC x 1-3/4"
	904209	8	LOCKWASHER, 5/8"
4	073040	1	HANGER, engine supporting, front
5	034440	2	CAPSCREW, 5/8"NF x 3-1/2"
	904209	2	LOCKWASHER, 5/8"
	911044	2	NUT, 5/8"NF
6	073180	2	BRACKET, engine supporting, rear
7	013465	4	CAPSCREW, 3/4"NF x 2-1/2"
	904369	4	LOCKWASHER, 3/4"
	911045	4	NUT, 3/4"NF
8	079411	1	BLOCK, tapped (For Model HD20G only. Required for cap- screw on right side)

KIT NUMBER

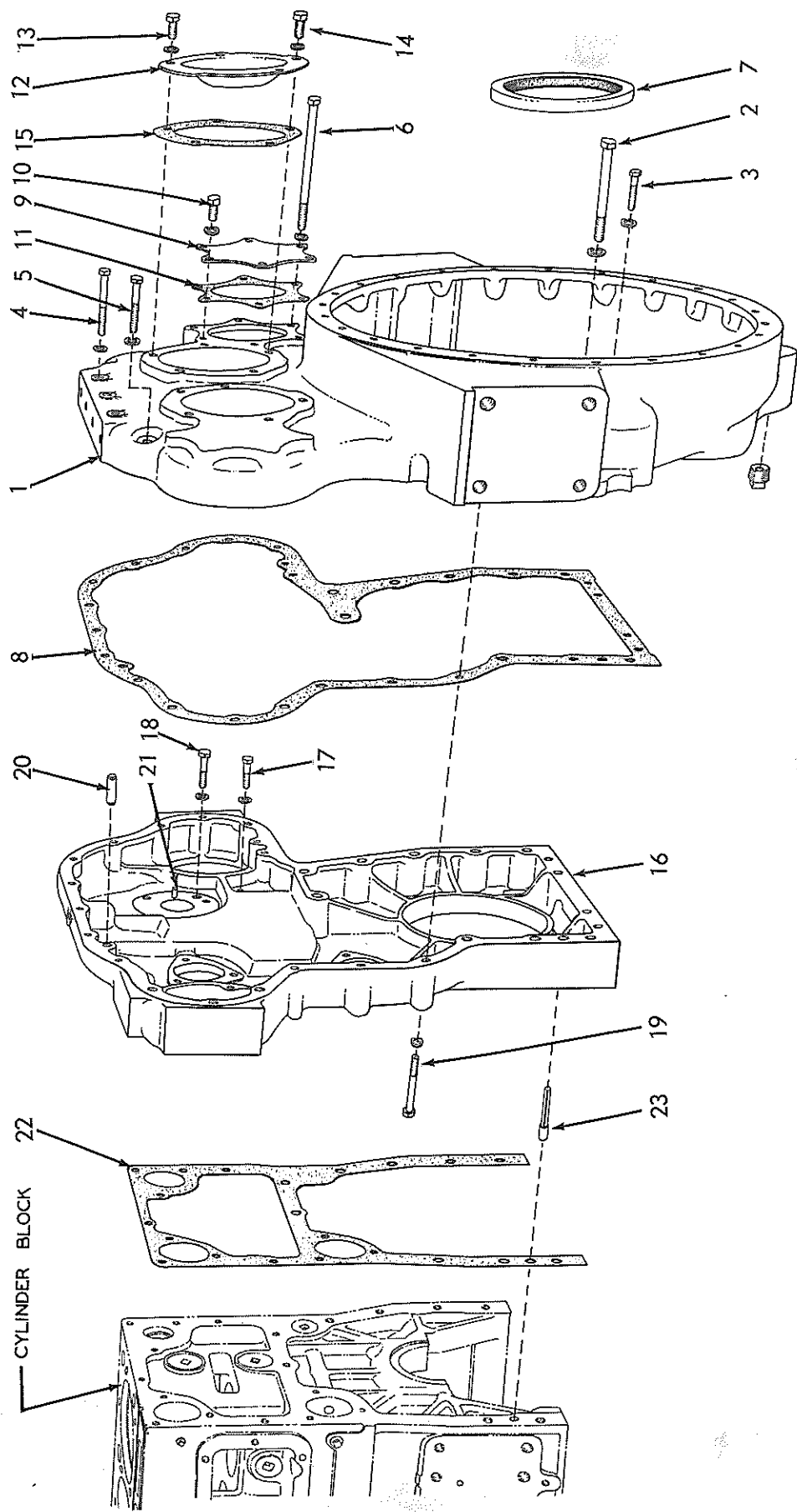


FIRST UNITS ONLY



CYLINDER BLOCK

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5194392	1	BLOCK ASSEMBLY, cylinder (Includes items 2 thru 17, and items indented below)(For engines prior to #6B-2802 also order 1 RING 5185809)	
	901651	2	PLUG, pipe, sq-hd., 1/8"NPT	
	901652	1	PLUG, pipe, sq-hd., 1/4"NPT	
	910230	2	PLUG, pipe, slotted-hd., 1/8"NPT	
	911081	2	PLUG, pipe, slotted-hd., 1/4"NPT (1 less on tractors with HEAVY-DUTY oil filter)	
2	-----	4	PIN, dowel, rear main bearing thrust washer (See CRANKSHAFT AND FLYWHEEL)	
3	-----	1	PIN, dowel (See FRONT COVER AND TRUNNION)	
3A	-----	1	PIN, dowel (See FLYWHEEL AND TIMING GEAR HOUSING)	
4	5192768	7	CAP, main bearing	
5	5175538	14	STUD (3/4"NC x 3/4"NF x 7-1/2")	
6	5173817	14	NUT (3/4"NF)	
	900807	14	PIN, cotter, 1/8" x 1-1/4"	
7	-----	25	STUD, cylinder head (See CYLINDER HEAD)	
8	5175553	12	PLUG, cylinder block (1-1/4" diam. thread)	
9	5175555	12	GASKET, cylinder block plug	
10	5178998	4	PLUG, cylinder block (1-3/4" diam. thread)	
11	5178997	4	GASKET, cylinder block plug	5183332
12	5176783	4	PLUG, cylinder block, right side (1/2"NC, plain)(1 less used on tractors equipped with HEAVY-DUTY oil filter)	
13	5178005	1	PLUG, cylinder block, right side (1/2"NC male, 1/4"NPT female) (For blower oil line connection)	
14	5176774	5	GASKET, cylinder block plug (1/2"I.D.)	5183332
15	5176799	1	PLUG, cylinder block, right side (5/8"NC, plain)	
16	5176800	1	FITTING, blower drive oil line connection (5/8"NC male, 1/4"NPT female)	
17	5176775	2	GASKET, cylinder block plug (5/8"I.D.)	5183332
18	5182863	6	LINER, cylinder	5194339
19	5175626	6	RING, snap, cylinder liner retaining	
20	5175686	2	COVER, air box, left side	
21	035439	24	CAPSCREW, 3/8"NC x 1"	
	904206	24	LOCKWASHER, 3/8"	
22	5174555	2	GASKET, air box cover	5183332
23	5176656	1	TUBE ASSEMBLY, air box drain, front (Includes NUT)	
	913039	1	ELBOW, inverted flare, 90°, 1/4" tube, 1/8"NPT male	
23A	5176657	4	TUBE ASSEMBLY, air box drain (On right side and at center positions on left side)	
	913039	4	ELBOW, inverted flare, 90°, 1/4" tube, 1/8"NPT male	
24	5176668	1	CLIP, front drain tube	
25	074059	1	TUBE ASSEMBLY, air box drain, rear (Includes NUTS)	
	910141	1	CONNECTOR, flared, 1/4" tube, 1/4"NPT	
26	074053	1	ANGLE, supporting, rear drain tube	
27	023217	1	CLIP, rear drain tube (closed type, 1/4" diam., 11/32" bolt-hole)	
28	065917	1	CAPSCREW, 5/16"NF x 1/2"	
	904205	1	LOCKWASHER, 5/16"	
	913636	1	NUT, 5/16"NF	



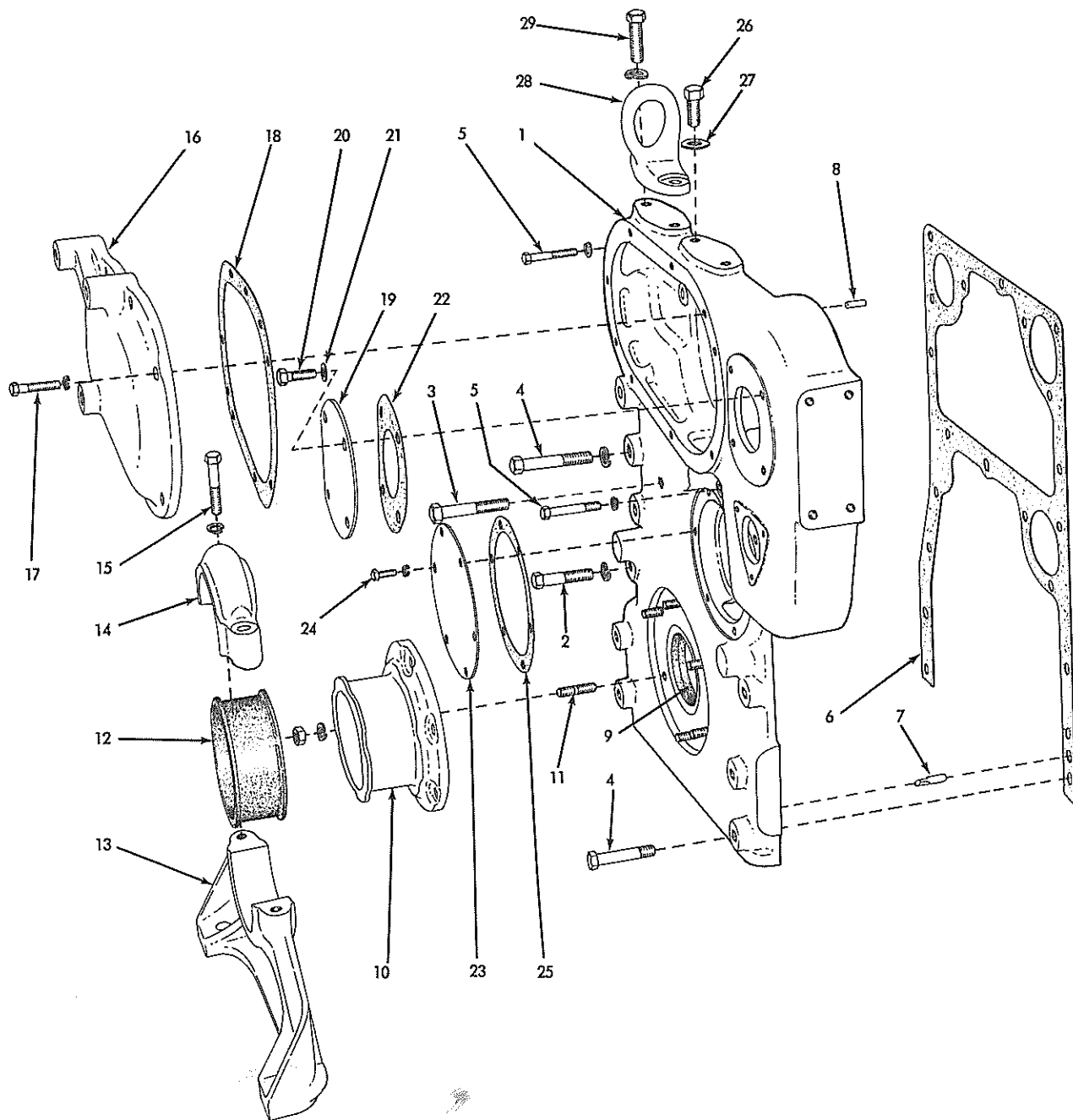
— CYLINDER BLOCK

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
29	5182311	1	PLATE, cover, cylinder block, right side	
30	044249	12	CAPSCREW, 3/8"NC x 1-1/8"	
	904206	12	LOCKWASHER, 3/8"	
31	5182469	1	GASKET, cylinder block cover plate	5183332
32	5183184	2	*COVER, handhole	
33	036034	2	*CAPSCREW, 3/8"NF x 1"	
	911115	2	*WASHER, plain, SAE std., 3/8"	
34	040400	2	*GASKET, copper	
35	5185416	2	*GASKET, handhole cover	5183332
36	5183214	2	*CLAMP, handhole cover	
37	5185504	4	PLUG ASSEMBLY, cam pocket oil drain holes (1 FELT, 1 RETAIN- ER)(Used on first units only)	
38	5183930	1	ADAPTER, oil filter return	
39	035439	4	CAPSCREW, 3/8"NC x 1"	
	904206	4	LOCKWASHER, 3/8"	
40	5177522	1	GASKET, adapter	5183332

*One less of each used on tractors equipped with Air Heater

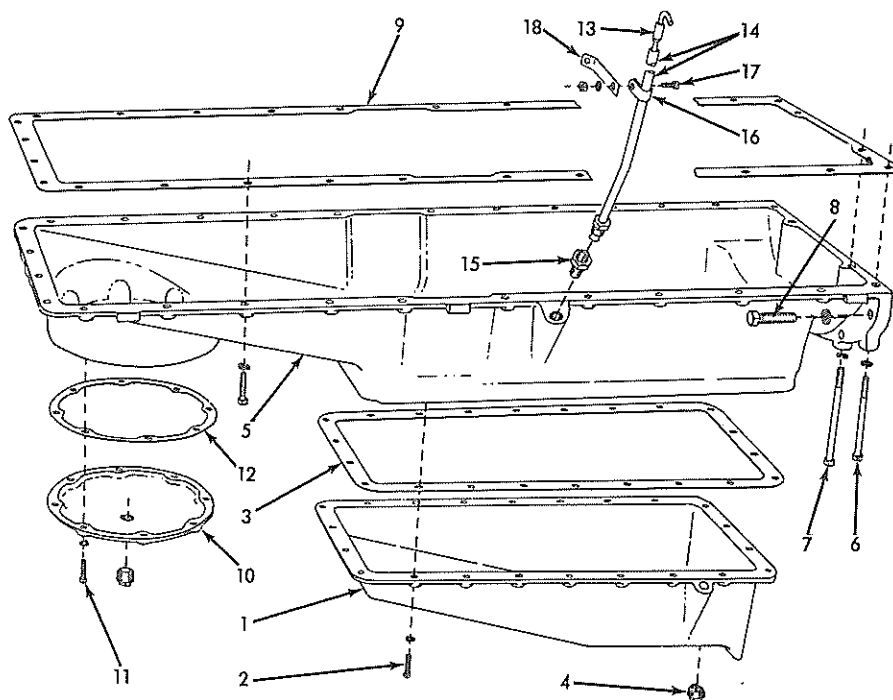
FLYWHEEL AND TIMING GEAR HOUSING

1	5183126	1	HOUSING ASSEMBLY, flywheel (Includes item 7 and 1 PLUG 912726)	
	912726	1	PLUG, pipe, 3/4"NPT	
2	037431	9	CAPSCREW, 1/2"NC x 4"	
	904208	9	LOCKWASHER, 1/2"	
3	070960	4	CAPSCREW, 3/8"NC x 1-1/2"	
4	074146	3	CAPSCREW, 3/8"NC x 2-7/8"	
5	056721	3	CAPSCREW, 3/8"NC x 2-1/2"	
6	074147	4	CAPSCREW, 3/8"NF x 6-1/4" (Also attach star COVER and blower drive SUPPORT)	
	911041	4	NUT, 3/8"NF	
	904206	14	LOCKWASHER, 3/8"	
7	-----	-	SEAL, oil (See CRANKSHAFT AND FLYWHEEL)	
8	5179684	1	GASKET, flywheel housing to gear train housing	5183332
9	5154669	1	COVER, star, flywheel housing	
10	035439	2	CAPSCREW, 3/8"NC x 1"	
	904206	2	LOCKWASHER, 3/8"	
11	5150057	1	GASKET, star cover	5183332
12	5179727	1	COVER, flywheel housing	
13	043886	1	CAPSCREW, 7/16"NC x 1"	
	904207	1	LOCKWASHER, 7/16"	
14	035718	4	CAPSCREW, 1/2"NC x 3/4"	
	904208	4	LOCKWASHER, 1/2"	
15	5179726	1	GASKET, flywheel housing cover	5183332
16	5182519	1	HOUSING ASSEMBLY, timing gears (Includes items 20 and 21)	
17	013058	3	CAPSCREW, 3/8"NC x 1-1/4"	
18	070960	3	CAPSCREW, 3/8"NC x 1-1/2"	
19	041915	4	CAPSCREW, 3/8"NC x 3-1/2"	
	904206	10	LOCKWASHER, 3/8"	
20	5151576	1	PIN, dowel, timing gear housing to flywheel housing	
21	-----	1	PIN, dowel, idler gear hub (See BLOWER DRIVE)	
22	5179717	1	GASKET, timing gear housing to block	5183332
23	5175631	1	PIN, dowel, housings to block	



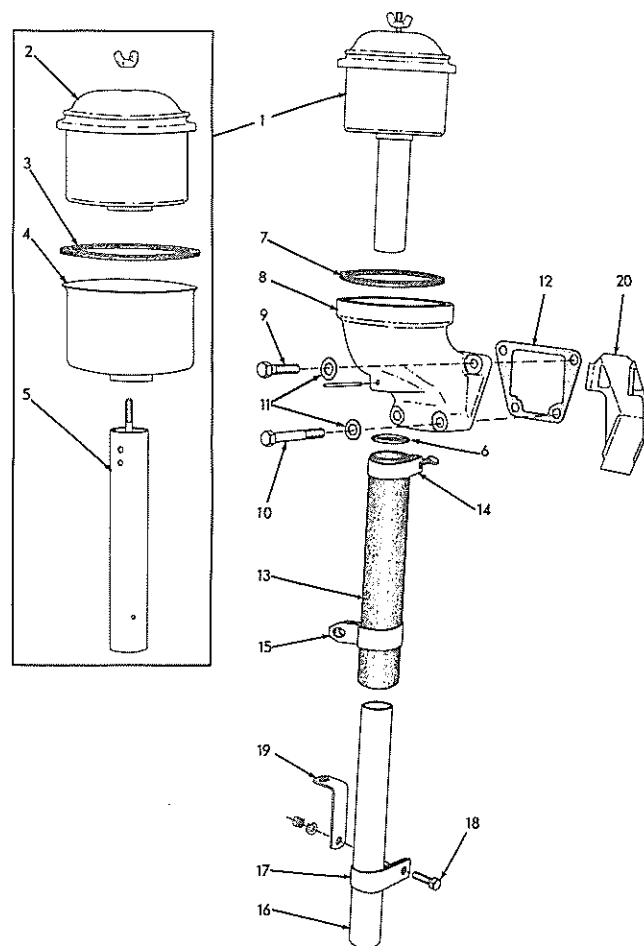
FRONT COVER AND TRUNNION

PART				KIT NUMBER	
ITEM	NUMBER	QTY.	DESCRIPTION		
1	5182480	1	COVER ASSEMBLY, cylinder block, front (Includes items 8, 9, and 11)		
2	035712	3	CAPSCREW, 1/2"NC x 2-1/4"		
3	012871	1	CAPSCREW, 1/2"NC x 2-3/4"		
4	041877	5	CAPSCREW, 1/2"NC x 3"		
	904208	9	LOCKWASHER, 1/2"		
5	013059	6	CAPSCREW, 3/8"NC x 2"		
	904206	6	LOCKWASHER, 3/8"		
6	5179717	1	GASKET, cylinder block front cover	5183332	
7	5175630	1	PIN, dowel, front cover to block		
8	-----	2	PIN, dowel, water pump adapter (See WATER PUMP)		
9	-----	1	SEAL, oil, crankshaft, front (See CRANKSHAFT AND FLYWHEEL)		
10	5179342	1	TRUNNION, front, engine supporting		
11	5176829	6	STUD (7/16"NC x 7/16"NF x 1-3/4")		
	911042	6	NUT, 7/16"NF		
	904207	6	LOCKWASHER, 7/16"		
12	5179345	1	RING, cushion, front trunnion (rubber)		
13	5179360	1	SUPPORT ASSEMBLY, front trunnion (Includes items 14 and 15)		
14	-----	1	CAP, front trunnion support (Not serviced. Order item 13)		
15	047558	2	CAPSCREW, 7/16"NC x 2-1/4"		
	904207	2	LOCKWASHER, 7/16"		
16	5182805	1	BRACKET, fan mounting (Also serves as camshaft gear COVER)		
17	070960	7	CAPSCREW, 3/8"NC x 1-1/2"		
	904206	7	LOCKWASHER, 3/8"		
18	5176335	1	GASKET, fan mounting bracket	5183332	
19	5176357	1	PLATE, cover, water pump driving gear		
20	035439	4	CAPSCREW, 3/8"NC x 1"		
21	053380	4	WASHER, plain (copper)		
22	5176334	1	GASKET, cover plate	5183332	
23	5176186	1	COVER, accessory drive shaft bearing		
24	045312	6	CAPSCREW, 5/16"NC x 3/4"		
	904205	6	LOCKWASHER, 5/16"		
25	5176413	1	GASKET, accessory shaft bearing cover	5183332	
26	035221	1	CAPSCREW, 1/2"NC x 1" (For plugging top pad hole)(Tractors prior to #4544)		
27	5176774	1	GASKET, plug screw (aluminum)		
28	5176419	1	BRACKET, engine lifting, front		
29	035190	2	CAPSCREW, 1/2"NC x 1-1/2"		
	904208	2	LOCKWASHER, 1/2"		



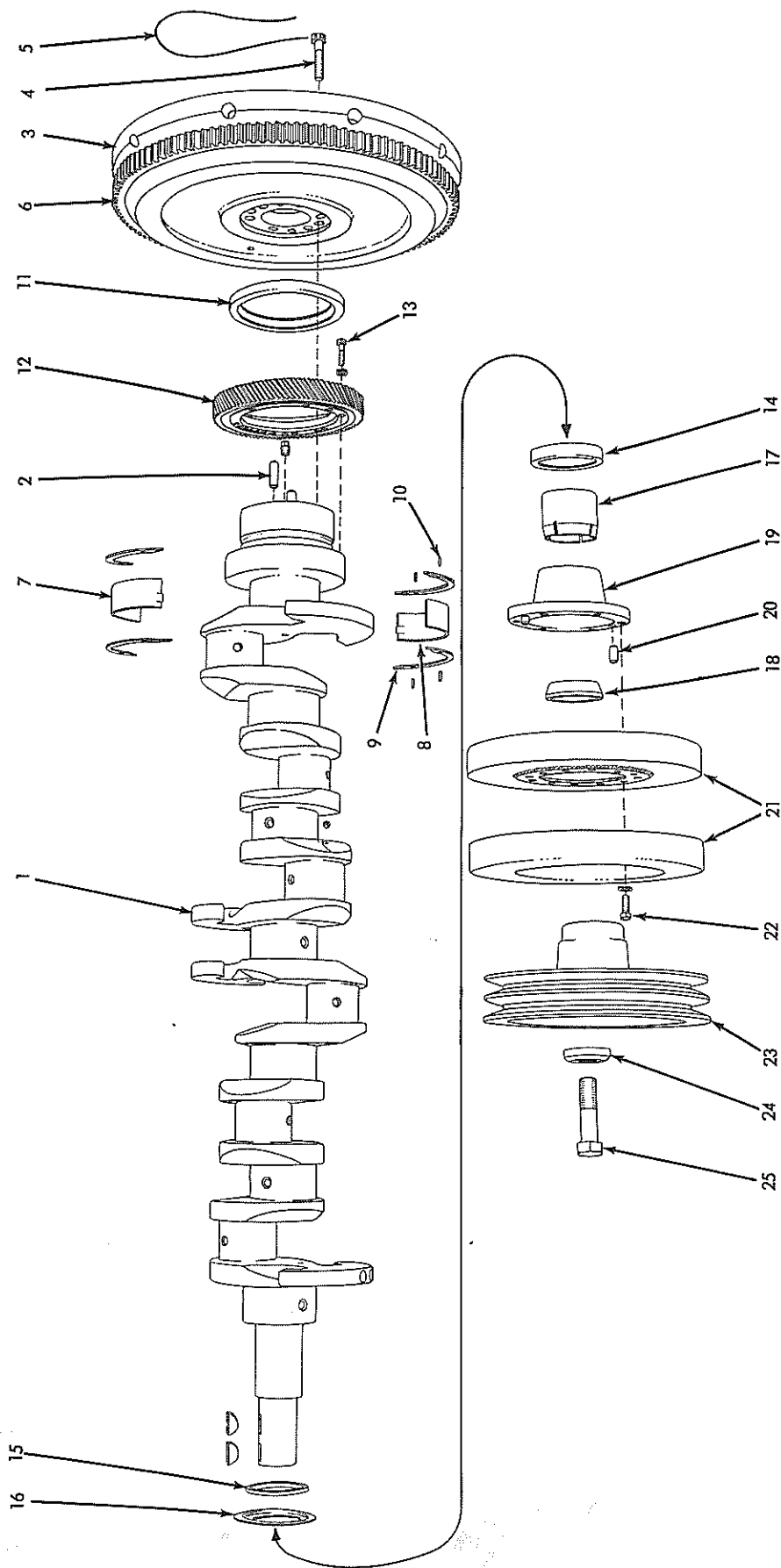
OIL PAN

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5153153	1	PAN, oil, lower	
	911081	2	PLUG, pipe, slotted-hd., 1/4"NPT	
2	045295	22	CAPSCREW, 5/16"NC x 1"	
	904205	22	LOCKWASHER, 5/16"	
3	5153256	1	GASKET, lower pan	5183332
4	5178994	1	PLUG, oil drain (3/4"NPT, magnetic)	
5	5182218	1	PAN, oil, upper	
	911081	1	PLUG, pipe, slotted-hd., 1/4"NPT	
	910245	24	CAPSCREW, 3/8"NC x 1-3/8"	
6	065369	2	CAPSCREW, 3/8"NC x 4-1/2"	
7	056094	2	CAPSCREW, 3/8"NC x 5-1/2"	
	904206	28	LOCKWASHER, 3/8"	
8	041916	4	CAPSCREW, 7/16"NC x 2"	
	904207	4	LOCKWASHER, 7/16"	
9	5175660	1	GASKET, upper pan to block	5183332
10	5153787	1	COVER, upper oil pan handhole	
	912726	1	PLUG, pipe, 3/4"NPT	
11	045295	8	CAPSCREW, 5/16"NC x 1"	
	904205	8	LOCKWASHER, 5/16"	
12	5153788	1	GASKET, oil pan handhole cover	5183332
13	5179054	1	DIPSTICK, oil level	
14	5179055	1	TUBE ASSEMBLY, oil level dipstick (Includes NUT)	
15	5151430	1	ADAPTOR, oil level dipstick tube	
16	207091	1	CLIP, supporting, dipstick tube	
17	036032	1	CAPSCREW, 3/8"NF x 3/4"	
	911115	1	WASHER, plain, SAE std., 3/8"	
	911041	1	NUT, 3/8"NF	
18	5184060	1	SUPPORT, dipstick tube clip	



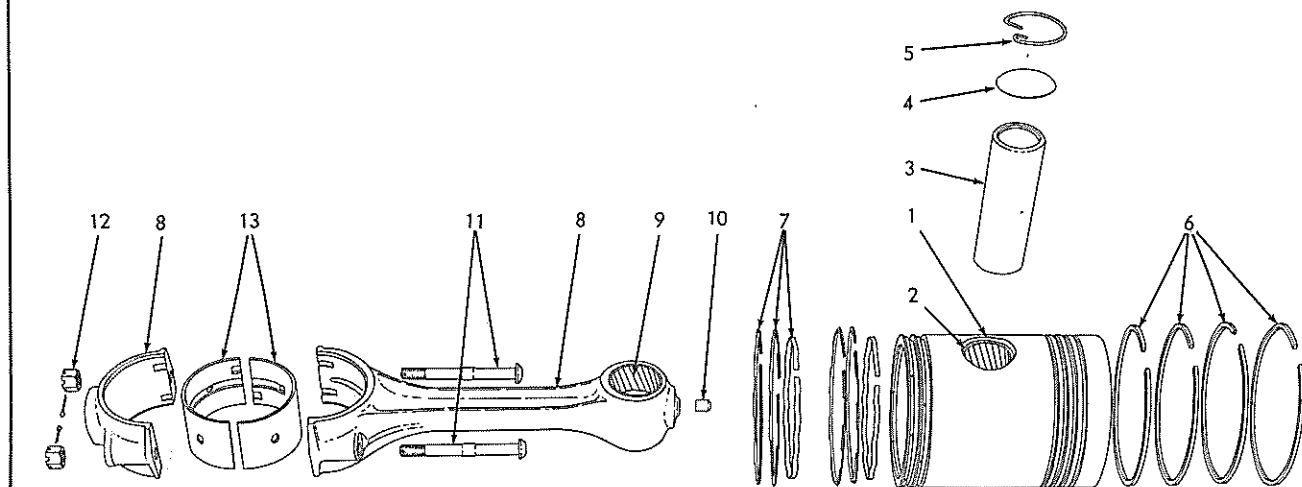
CRANKCASE BREATHER

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5179283	1	BREATHER ASSEMBLY (Includes items 2 thru 5)	
	915858	1	PIN, taper, #1 x 2"	
2	5193129	1	ELEMENT ASSEMBLY, breather (Includes item 3)	
	915015	1	NUT, wing, 1/4"NC	
3	5193132	1	GASKET, breather cover	
4	5193130	1	SHELL, breather	
5	5193131	1	TUBE, center	
6	5180214	1	RING, seal, breather pipe	
7	5179282	1	GASKET, breather to body	5183332
8	5179246	1	BODY, breather	
9	040382	2	CAPSCREW, 3/8"NC x 1-3/8"	
10	056721	2	CAPSCREW, 3/8"NC x 2-1/2"	
11	053380	4	WASHER, plain (copper)	
12	5177522	1	GASKET, breather body to block	5183332
13	5179290	1	HOSE, breather pipe (1-1/4" I.D. x 9-3/8")	
14	5177883	1	CLAMP, hose, 1-1/2" diam.	
15	5179368	1	CLAMP, special (bolts to oil cooler)	
16	5179289	1	PIPE, breather extension	
17	5176399	1	CLIP, pipe supporting	
18	057927	1	CAPSCREW, 5/16"NF x 3/4"	
	904205	1	LOCKWASHER, 5/16"	
	913636	1	NUT, 5/16"NF	
19	5176400	1	BRACKET, pipe supporting clip	
20	5182508	1	PLATE, deflector	



CRANKSHAFT AND FLYWHEEL

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5175574	1	CRANKSHAFT ASSEMBLY (Includes 6 PLUGS 910230 and 2 PINS 5177528)	
	910230	6	PLUG, pipe, slotted-hd., 1/8"NPT	
	901652	1	PLUG, pipe, sq-hd., 1/4"NPT	
2	5177528	2	PIN, dowel, flywheel	
3	5183546	1	FLYWHEEL ASSEMBLY (Includes item 6)	
4	5150458	6	BOLT (9/16"NF x 2-1/4")	
5	023633	3	WIRE, locking (1/16" x 12")	
6	5152615	1	GEAR, flywheel ring	
7	5179412	7	SHELL, main bearing, upper (standard size)	
	5193339	7	SHELL, main bearing, upper (.002" undersize)	
	5193340	7	SHELL, main bearing, upper (.010" undersize)	
	5193341	7	SHELL, main bearing, upper (.020" undersize)	
	5193342	7	SHELL, main bearing, upper (.030" undersize)	
8	5179411	7	SHELL, main bearing, lower (standard size)	
	5193343	7	SHELL, main bearing, lower (.002" undersize)	
	5193344	7	SHELL, main bearing, lower (.010" undersize)	
	5193345	7	SHELL, main bearing, lower (.020" undersize)	
	5193346	7	SHELL, main bearing, lower (.030" undersize)	
9	5175638	4	WASHER, thrust, rear main bearing (Half only. Standard size)	
	5193387	4	WASHER, thrust, rear main bearing (Half only - .005" oversize)	
	5193388	4	WASHER, thrust, rear main bearing (Half only - .010" oversize)	
10	040398	4	PIN, dowel, rear main bearing thrust washer	
11	5179985	1	SEAL, oil, rear	
12	5175370	1	GEAR, crankshaft	
13	036039	6	CAPSCREW, 3/8"NF x 1-3/8"	
	904206	6	LOCKWASHER, 3/8"	
14	5153373	1	SEAL, oil, front	
15	5175168	1	SPACER, oil slinger	
16	5175170	1	SLINGER, oil	
17	5176809	1	CONE, vibration damper, rear	
18	5151344	1	CONE, vibration damper, front	
19	5186050	1	HUB ASSEMBLY, vibration damper (Includes item 20)	
20	5156295	2	PIN, dowel, vibration damper	
21	5177764	2	DAMPER, vibration	
22	210151	6	CAPSCREW, 7/16"NF x 1-1/8"	
	904207	6	LOCKWASHER, 7/16"	
23	067864	1	PULLEY, crankshaft	
	911201	2	KEY, #E woodruff, 3/8" x 1-1/4"	
24	053669	1	WASHER, pulley retaining	
25	073439	1	CAPSCREW, pulley retaining (1"NF x 3")	

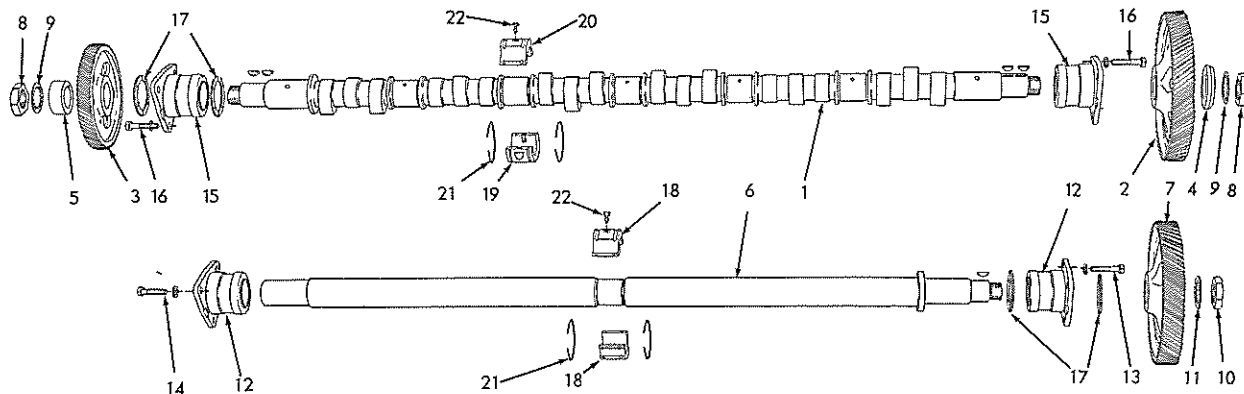


PISTON AND CONNECTING ROD

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5193196	6	PISTON ASSEMBLY (Includes items 2, 4 and 5)	5194339
2	5175580	12	BUSHING, piston	
3	5175585	6	PIN, piston.	5194339
4	5177064	12	RETAINER, piston pin	
5	5177063	12	RING, snap, piston pin retainer	
6	5175586	24	RING, compression (1st and 2nd grooves).	5193452 5194339
7	5175588	12	RING ASSEMBLY, oil control (3 piece type)	5193452 5194339
8	5175577	6	ROD ASSEMBLY, connecting (Includes items 9 thru 12)	
9	5175580	12	BUSHING, connecting rod	
10	5150140	6	NOZZLE, spray, connecting rod	
11	5175581	12	BOLT, connecting rod	
12	5150095	12	NUT, connecting rod bolt	
	900801	12	PIN, cotter, 3/32" x 3/4"	
13	5179410	12	SHELL, connecting rod bearing (standard size)	
	5193347	12	SHELL, connecting rod bearing (.002" undersize)	
	5193348	12	SHELL, connecting rod bearing (.010" undersize)	
	5193349	12	SHELL, connecting rod bearing (.020" undersize)	
	5193350	12	SHELL, connecting rod bearing (.030" undersize)	

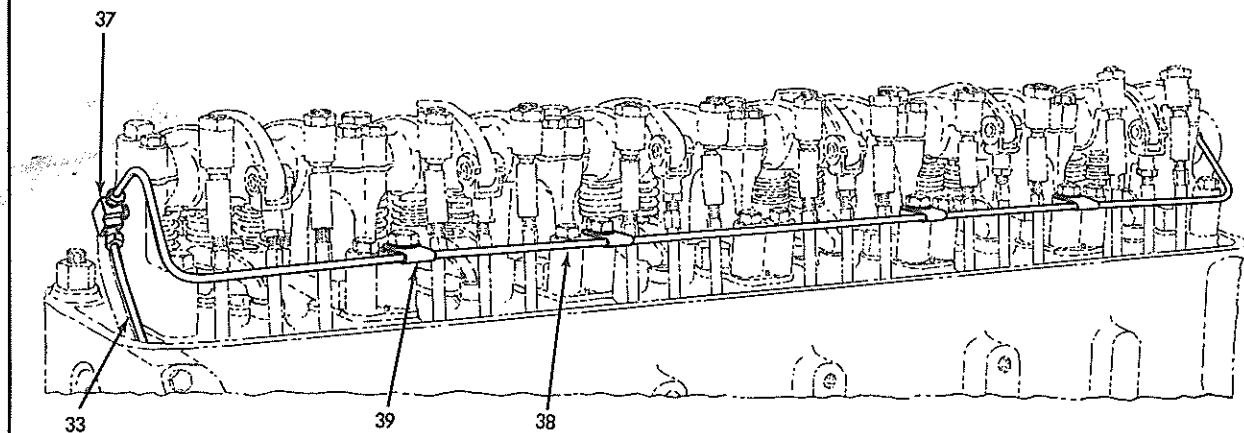
NOTE: In view of the removable-sleeve construction of these engines, oversize pistons or rings are not supplied. When appreciable wear occurs, new standard size parts should be installed.

Oversize piston pins are not available. New standard size pins and bushings should be installed when appreciable wear occurs.

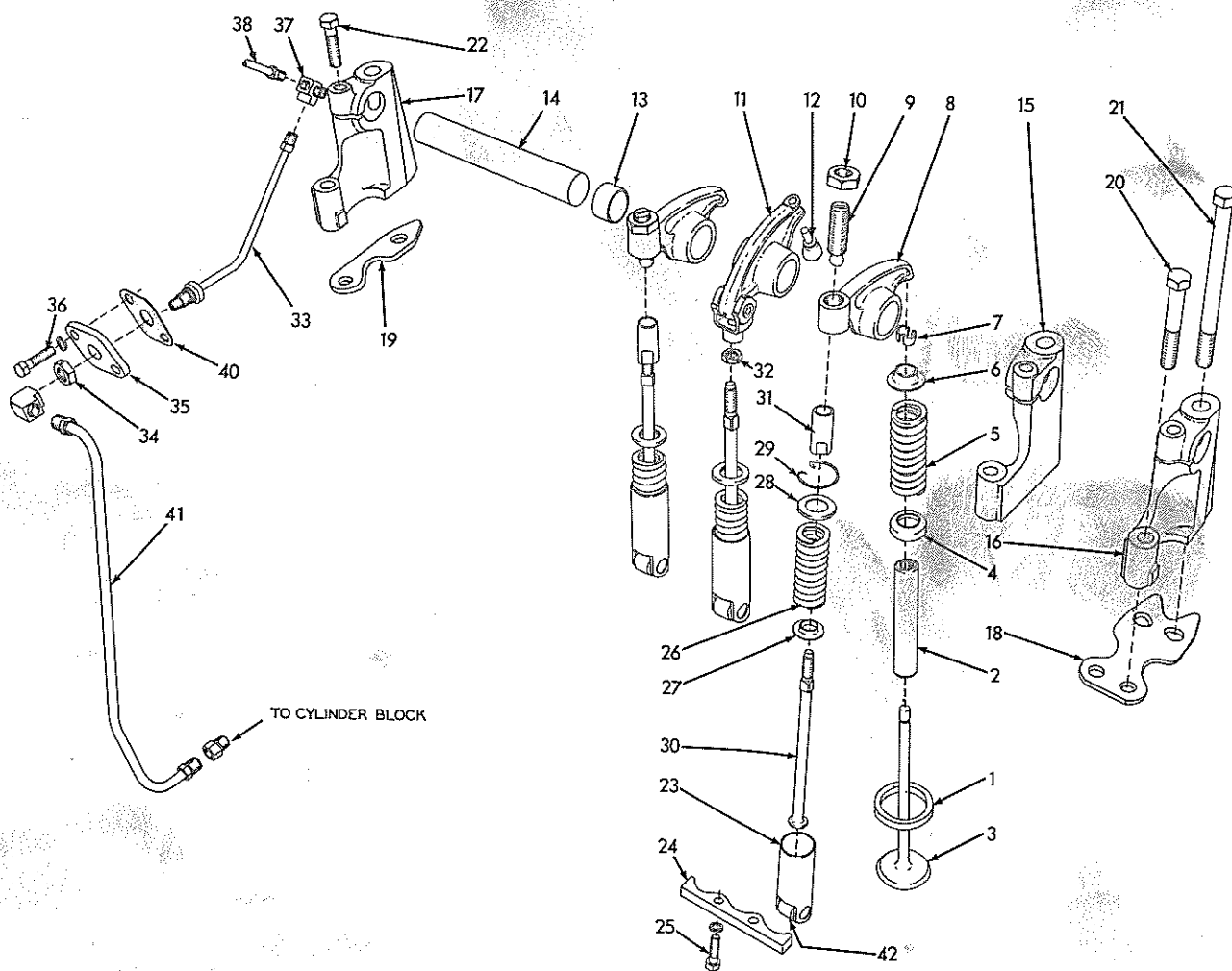


CAMSHAFT AND ACCESSORY SHAFT

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5175904	1	CAMSHAFT ASSEMBLY (Includes end PLUGS)	
	905123	4	KEY, #9 woodruff, 3/16" x 3/4"	
2	5182318	1	GEAR, camshaft, rear (95 teeth)	
3	5175995	1	GEAR, camshaft, front (70 teeth)	
4	5176100	1	SPACER, camshaft, rear	
5	5176361	1	SPACER, camshaft, front	
6	5178723	1	SHAFT, accessory	
	905123	1	KEY, #9 woodruff, 3/16" x 3/4"	
7	5175371	1	GEAR, accessory shaft	
8	5176673	2	NUT, camshaft (Engines prior to #6B-5734)	
	5188454	2	NUT, camshaft (self-locking)(Engines #6B-5734 and up)	
9	5177769	2	LOCKWASHER, internal teeth, 1-1/8" (Engines prior to #6B-5734)	
10	5176673	1	NUT, accessory shaft	
11	5177769	1	LOCKWASHER, internal teeth, 1-1/8"	
12	5175635	2	BEARING ASSEMBLY, accessory shaft end (Includes bronze bushings which are not serviced separately)	
13	5157244	3	CAPSCREW, 3/8"NC x 1-3/4" (rear bearing)	
14	070960	3	CAPSCREW, 3/8"NC x 1-1/2" (front bearing)	
	904206	6	LOCKWASHER, 3/8"	
15	5186710	2	BEARING ASSEMBLY, camshaft end (Includes bronze bushings which are not serviced separately)	
16	5157244	6	CAPSCREW, 3/8"NC x 1-3/4"	
	904206	6	LOCKWASHER, 3/8"	
17	5175636	4	WASHER, thrust (standard size)	
	5193370	4	WASHER, thrust (.005" oversize)	
	5193371	4	WASHER, thrust (.010" oversize)	
18	5175625	2	BEARING, accessory shaft intermediate (half only)	
19	5186706	5	BEARING, camshaft intermediate, lower half	
20	5175625	5	BEARING, camshaft intermediate, upper half	
21	5175624	12	RING, retaining, intermediate bearings	
22	5177822	6	BOLT, locking, intermediate bearing	



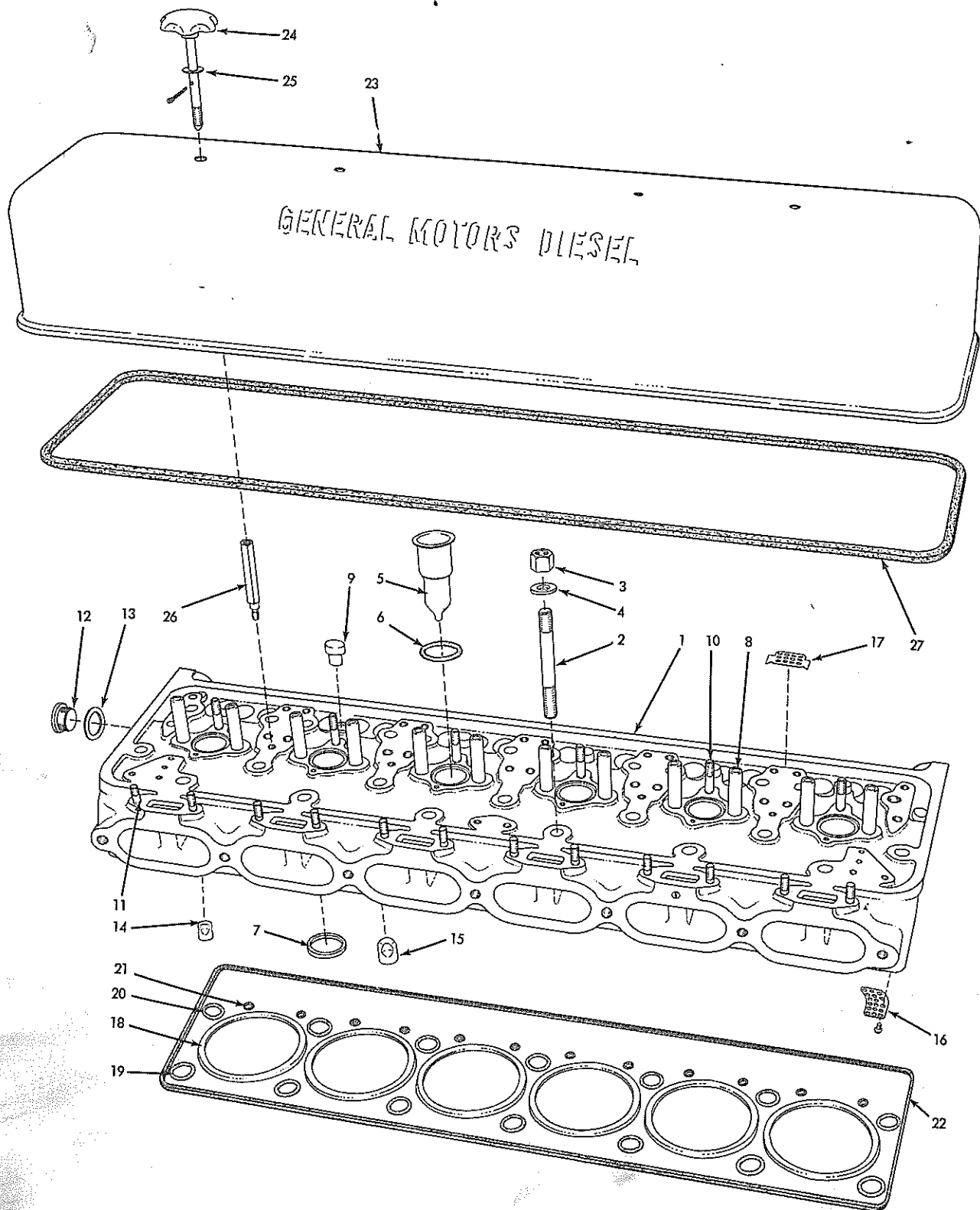
ROCKER OIL LINES



VALVE MECHANISM

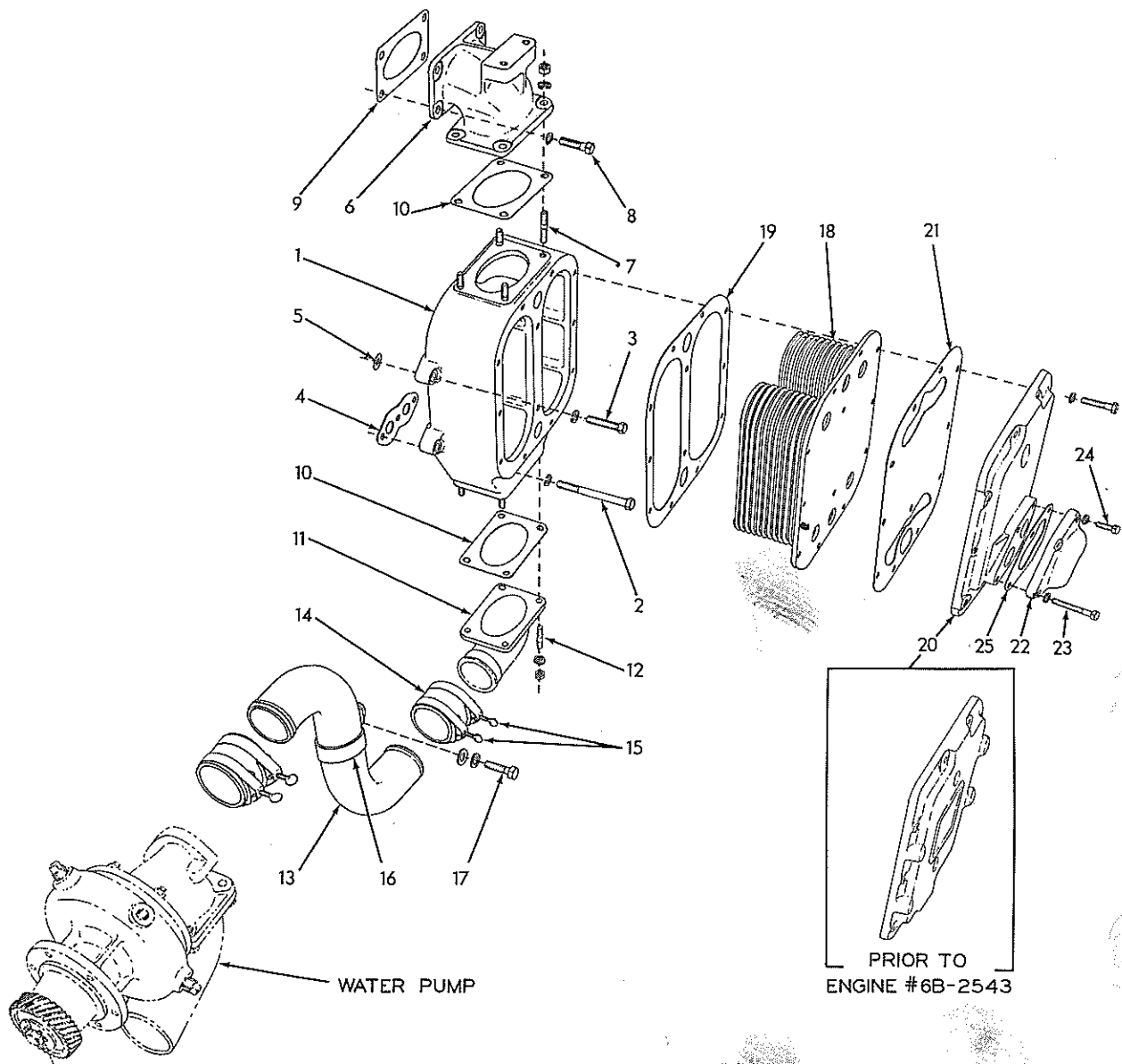
ITEM	NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5179470	12	INSERT, exhaust valve	
2	5175520	12	GUIDE, exhaust valve	
3	5193004	12	VALVE KIT, exhaust (1 VALVE and 2 LOCKS 5175310)	
4	5175207	12	SEAT, valve spring	
5	5175391	12	SPRING, valve	
6	5175250	12	CAP, valve spring	
7	5175310	24	LOCK, valve spring cap	
8	5178130	12	ARM ASSEMBLY, valve rocker (Includes items 9, 10 and 13)	
9	5177990	12	SCREW, valve lash adjustment	
10	5177992	12	NUT, valve lash adjustment screw	
11	5188139	6	ARM ASSEMBLY, injector rocker (Includes items 12 and 13. Clevis parts are not serviced separately)	
12	5179421	6	BALL ASSEMBLY, injector rocker arm (1 BALL and 1 SEAT)	
13	5175396	36	BUSHING, rocker arm	
14	5179008	5	SHAFT ASSEMBLY, rocker (Includes PLUG)	
	5182989	1	SHAFT, rocker, rear cylinder (Tapped for oil fitting)	
15	5178996	6	BRACKET, rocker shaft, right hand	
16	5178995	5	BRACKET, rocker shaft, left hand	
17	5179002	1	BRACKET, rocker shaft, left hand (end)	
18	5185941	5	PLATE ASSEMBLY, base, rocker shaft center brackets (When re- quired for engines prior to #6B-2750 also order 2 WASHERS 5175505)	
19	5185940	2	PLATE, base, rocker shaft end bracket (When required for engines prior to #6B-2793 also order 1 WASHER 5175505)	
20	053323	12	CAPSCREW, hold-down, rocker shaft bracket (7/16"NC x 2-3/4")	
21	5179005	12	CAPSCREW, hold-down, rocker shaft bracket (1/2"NC x 5-5/8")	
22	040382	12	CAPSCREW, clamping, rocker shaft bracket (3/8"NC x 1-3/8")	
23	5186765	18	FOLLOWER ASSEMBLY, cam (Includes ROLLER and PIN. Also see item 42)	
24	5183278	6	GUIDE, cam follower	
25	037450	12	CAPSCREW, 5/16"NC x 1-1/4"	
	904205	12	LOCKWASHER, 5/16"	
26	5176790	18	SPRING, cam follower	
27	5176788	18	SEAT, cam follower spring, lower	
28	5176789	18	SEAT, cam follower spring, upper	
29	5176245	18	RETAINER, cam follower spring upper seat	
30	5177991	18	ROD, push	
31	5177989	12	SOCKET, valve push rod	
32	5176830	6	NUT, injector push rod	
33	5184909	1	TUBE ASSEMBLY, oil, rocker bracket to head (Includes NUT) (When required for engines prior to #6B-4068 also order 1 FLANGE 5184914 and 1 NUT 5183694)	
34	5183694	1	NUT, thin, jam, 1/2"NF	
35	5176586	1	FLANGE, oil tube (1/4" thick)(Engines prior to #6B-4068)	
	5184914	1	FLANGE, oil tube (3/16" thick)(Engines #6B-4068 and up)	
36	054130	2	CAPSCREW, 5/16"NC x 7/8"	
	904205	2	LOCKWASHER, 5/16"	
37	5158576	1	ELBOW, rocker oil tube	
38	5182984	1	TUBE ASSEMBLY, oil, rear rocker shaft (Includes NUTS)	
	913039	1	ELBOW, inverted flare, 90°, 1/4" tube, 1/8"NPT	
39	5163537	4	CLIP, oil tube	
	912298	4	WASHER, plain, SAE std., 7/16"	
40	5175403	1	GASKET, oil tube flange	5183332 5193466

(Continued)

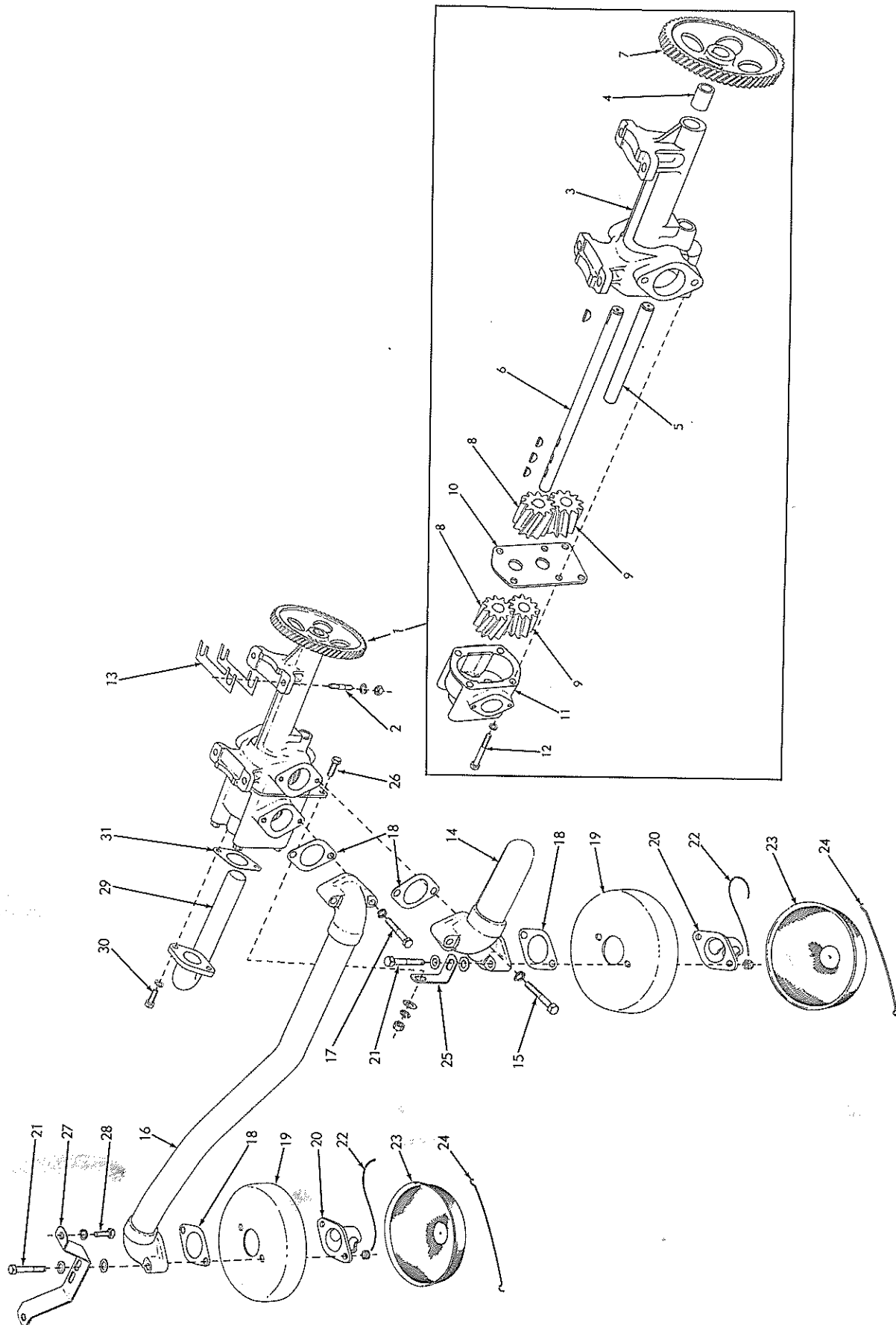


CYLINDER HEAD AND ROCKER COVER

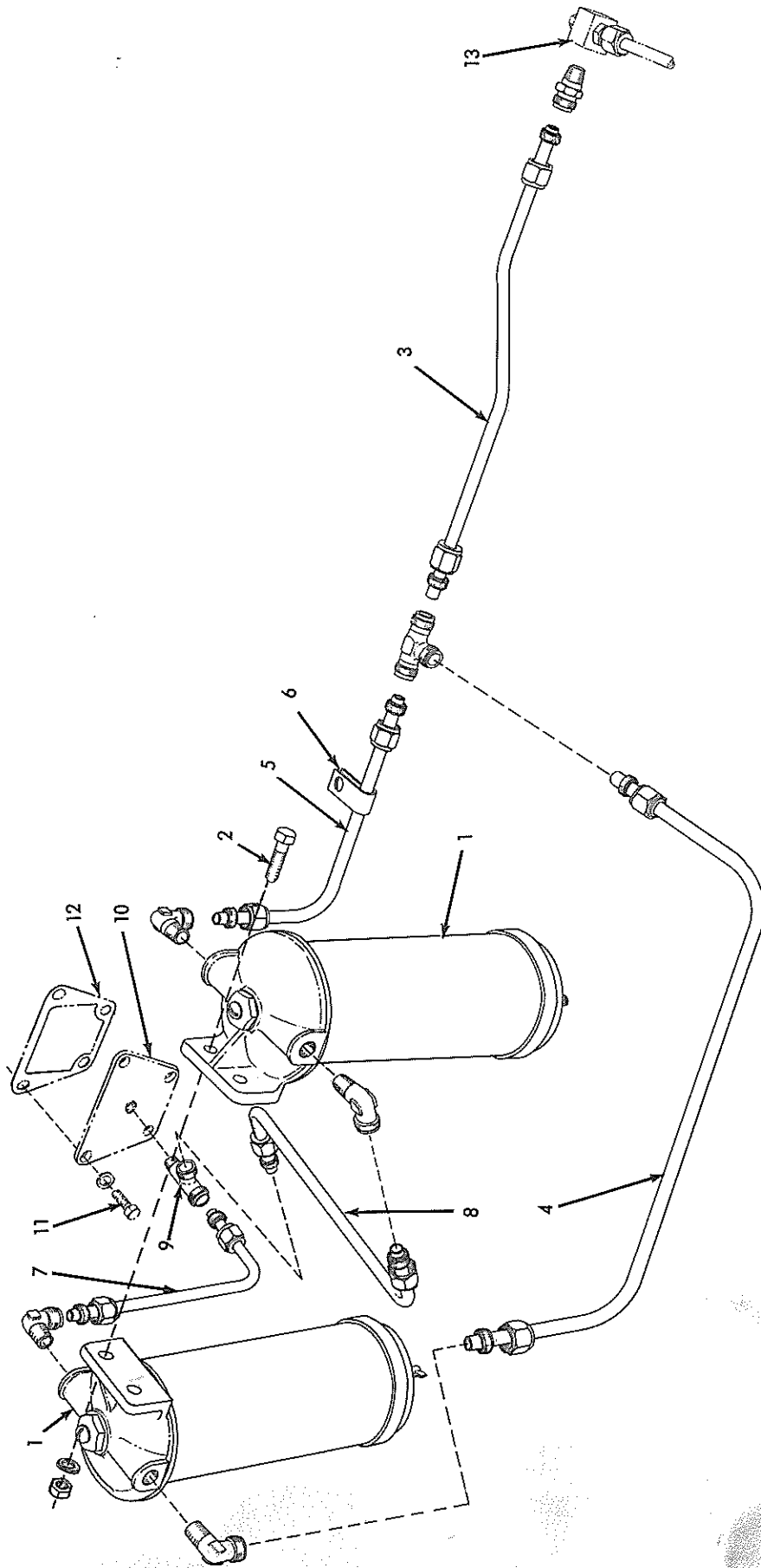
ITEM	NUMBER	QTY.	DESCRIPTION	KIT NUMBER
41	5176406	1	TUBE ASSEMBLY, oil, block to head (Includes NUTS)	
	915865	1	ELBOW, inverted flare, 90°, 5/16" tube, 1/8"NPT female	
	914093	1	CONNECTOR, inverted flare, 5/16" tube, 1/4"NPT male	
42	5194047	18	ROLLER KIT, cam follower (Each consists of 1 ROLLER and 1 PIN which are not serviced separately)	
CYLINDER HEAD AND ROCKER COVER				
1	5193456	1	HEAD ASSEMBLY, cylinder (Includes items 5 thru 17)	
2	5179791	25	STUD (5/8"NC x 5/8"NF x 6.80")	
3	5185436	25	NUT (5/8"NF)	
4	5175505	25	WASHER, plain	
5	5178879	6	TUBE, injector hole	
6	5179323	6	RING, sealing, injector hole tube	
7	-----	12	INSERT, exhaust valve	} See VALVE MECHANISM
8	-----	12	GUIDE, exhaust valve	
9	-----	6	SUPPORT, injector clamp	} See FUEL INJECTOR
10	-----	6	STUD, injector clamp	
11	-----	12	STUD, water manifold (See WATER OUTLET MANIFOLD)	
12	5178998	2	PLUG, cylinder head	
13	5178997	2	GASKET, cylinder head plug	
14	5172875	4	NOZZLE, water (small)	
15	5183823	10	NOZZLE, water (large)	
16	5179977	2	SCREEN, breather hole, end	
	910160	2	SCREW, drive, #10 x 1/2"	
17	5179978	5	SCREEN, breather hole, side	
18	5179662	6	GASKET, cylinder	5183332 5193466
19	5182976	12	RING, seal, water hole (1-1/8"I.D.)	5183332 5193466
20	5182975	2	RING, seal, water hole (13/16"I.D.)	5183332 5193466
21	5182977	12	RING, seal, water hole (3/8"I.D.)	5183332 5193466
22	5185809	1	RING, cylinder head oil seal (Must be cut to fit on engines prior to #6B-2802)	5183332 5193466
23	5175413	1	COVER, rocker	
24	5175156	4	BOLT, rocker cover	
	900806	4	PIN, cotter, 1/8" x 1"	
25	5150333	4	WASHER, rocker cover bolt	
26	5157192	4	STUD, rocker cover bolt	
27	5183998	1	GASKET, rocker cover	5183332



ITEM	NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5182102	1	HOUSING ASSEMBLY (Includes items 7 and 12)	
2	082936	3	CAPSCREW, 7/16"NC x 4-1/2"	
	904207	3	LOCKWASHER, 7/16"	
3	074145	4	CAPSCREW, 3/8"NC x 1-5/8"	
	904206	4	LOCKWASHER, 3/8"	
4	5175953	1	GASKET, housing to block	5183332
5	5175882	4	SPACER, gasket compensating	5183332
6	5182808	1	ELBOW, housing to block	
7	5176182	4	STUD (3/8"NC x 3/8"NF x 13/16")(To housing)	
	911041	4	NUT, 3/8"NF	
	904206	4	LOCKWASHER, 3/8"	
8	040382	4	CAPSCREW, 3/8"NC x 1-3/8" (To block)	
	904206	4	LOCKWASHER, 3/8"	
9	5175948	1	GASKET, elbow to block	5183332
10	5175844	2	GASKET, elbow to housing	5183332
11	5177904	1	ELBOW, water inlet	
12	5176182	4	STUD (3/8"NC x 3/8"NF x 13/16")	
	911041	4	NUT, 3/8"NF	
	904206	4	LOCKWASHER, 3/8"	
13	5182462	1	TUBE, water inlet	
14	5177273	2	HOSE, water inlet tube	
15	5177882	4	CLAMP, hose, 3" diam.	
16	5183829	1	CLAMP, water inlet tube supporting (Started with engine #6B-1423)	
17	035439	1	CAPSCREW, 3/8"NC x 1"	
	904206	1	LOCKWASHER, 3/8"	
	911115	1	WASHER, plain, SAE std., 3/8"	
18	8514437	1	CORE, oil cooling (12 plates)	
19	5175845	1	GASKET, oil cooling core	5183332
20	5177907	1	COVER, housing (Used prior to engine #6B-2543)	
	037450	12	CAPSCREW,, 5/16"NC x 1-1/4"	
	904205	12	LOCKWASHER, 5/16"	
	5184473	1	COVER, housing (Started with engine #6B-2543 but later discontinued on tractor #5434)	
	037450	9	CAPSCREW, 5/16"NC x 1-1/4"	
	904205	9	LOCKWASHER, 5/16"	
	-----	1	COVER, housing (Tractors #5434 and up. See OIL FILTER on page 28)	
	5177815	1	GASKET, housing cover (Used on tractors prior to #5434)	
	5184472	1	PLATE, jumper, housing cover (Started with engine #6B-2543 but later discontinued on tractor #5434)	
	033751	3	CAPSCREW, 5/16"NC x 2-1/2"	
23	045312	1	CAPSCREW, 5/16"NC x 3/4"	
24	904205	4	LOCKWASHER, 5/16"	
25	5184474	1	GASKET, jumper plate (Started with engine #6B-2543 but later discontinued on tractor #5434)	

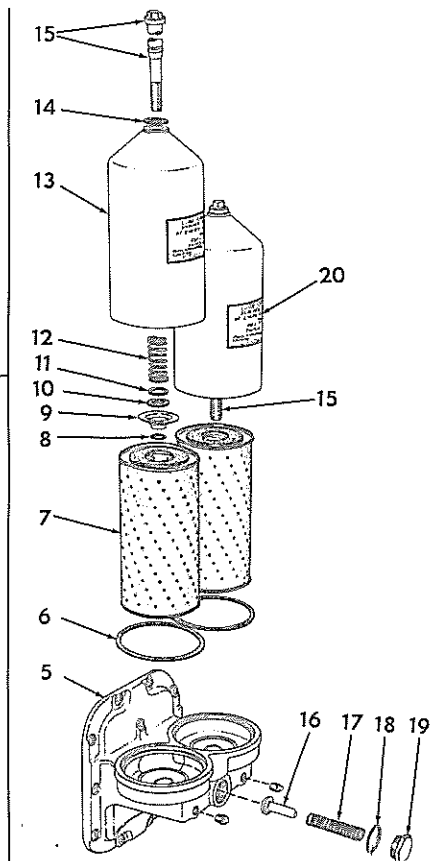
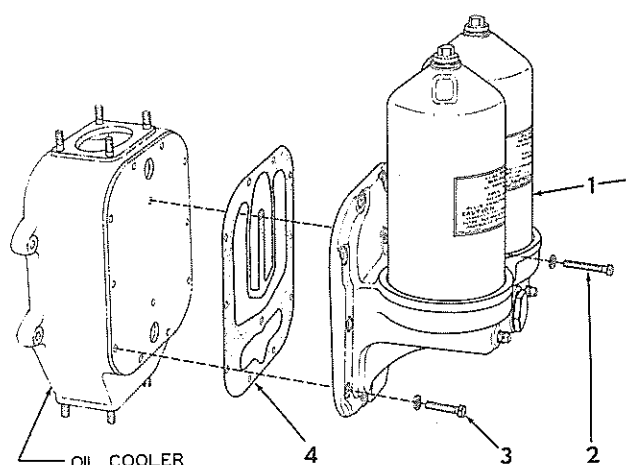


ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5175572	1	PUMP ASSEMBLY, oil (Consists of items 3 thru 12)	
2	5150362	4	STUD (3/8"NC x 3/8"NF x 1-11/16")	
	911041	4	NUT, 3/8"NF	
	904206	4	LOCKWASHER, 3/8"	
3	5175621	1	BODY ASSEMBLY (Includes items 4 and 5)	
4	5175541	2	BUSHING, pump body	
5	5175518	1	SHAFT, driven gear	
6	5175517	1	SHAFT, driving gear	
	905123	4	KEY, #9 woodruff, 3/16" x 3/4"	
7	5175383	1	GEAR, driving (64 teeth)	
8	5175226	2	GEAR, pumping, upper shaft	
9	5175616	2	GEAR ASSEMBLY, pumping, lower shaft (Includes BUSHINGS which are not serviced separately)	
10	5175414	1	SPACER, pump body	
11	5175620	1	BODY ASSEMBLY, scavenging pump (Includes BUSHING which is not serviced separately)	
12	065369	4	CAPSCREW, 3/8"NC x 4-1/2"	
	904206	4	LOCKWASHER, 3/8"	
13	5183323	-	SHIM, gear mesh adjustment (.005" thick. Use as req'd)	
14	5175739	1	PIPE, pressure pump inlet	
15	013059	2	CAPSCREW, 3/8"NC x 2"	
	904206	2	LOCKWASHER, 3/8"	
16	5175713	1	PIPE, scavenging pump inlet	
17	013059	2	CAPSCREW, 3/8"NC x 2"	
	904206	2	LOCKWASHER, 3/8"	
18	5175604	4	GASKET, inlet pipe	5183332
19	5175611	2	COVER, oil screen	
20	5175699	2	PIPE, stub, oil suction	
21	074177	4	CAPSCREW (3/8"NF x 2-1/4", drilled end)	
	911115	4	WASHER, plain, SAE std., 3/8"	
	910863	4	NUT, slotted, 3/8"NF	
22	023633	2	WIRE, locking (1/16" x 12")	
23	5153286	2	SCREEN, oil	
24	5153284	2	RETAINER, oil screen	
25	5175519	2	SUPPORT, pressure pump oil screen	
26	036034	2	CAPSCREW, 3/8"NF x 1"	
	911115	2	WASHER, plain, SAE std., 3/8"	
	904206	2	LOCKWASHER, 3/8"	
	913528	2	NUT, self-locking, 3/8"NF	
27	5175951	2	SUPPORT, scavenging pump oil screen	
28	035439	4	CAPSCREW, 3/8"NC x 1"	
	904206	4	LOCKWASHER, 3/8"	
29	5175723	1	PIPE, scavenging pump outlet	
30	035439	2	CAPSCREW, 3/8"NC x 1"	
	904206	2	LOCKWASHER, 3/8"	
31	3203430	1	GASKET, outlet pipe	5183332



USAGE: Tractors prior to serial No. 5434.

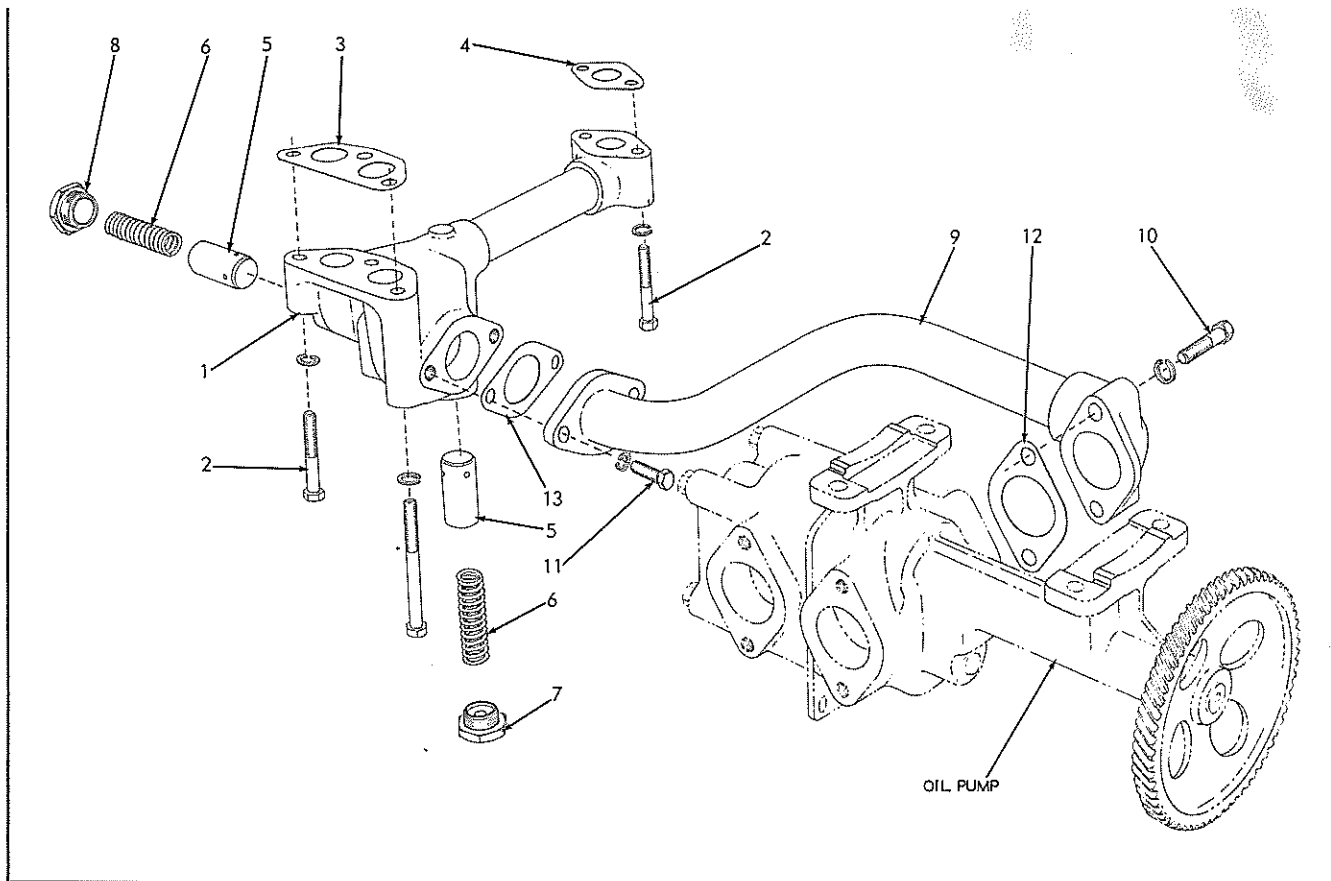
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	074026	2	FILTER ASSEMBLY, oil (See page 64 for repair parts)	
2	{ 012992	4	CAPSCREW, 3/8"NF x 1-1/4" (Tractors prior to #4544)	
	035336	2	CAPSCREW, 3/8"NF x 1-3/4" (Tractors #4544 and up)	
	911115	4	WASHER, plain, SAE std., 3/8" (Tractors prior to #4544)	
	904206	2	LOCKWASHER, 3/8" (Tractors #4544 and up)	
	911041	2	NUT, 3/8"NF (4 used prior to tractor #4544)	
3	069347	1	TUBE, oil supply	
	915368	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male	
	915371	1	TEE, Sealastic, 3/8" tube	
	915366	4	NUT, Sealastic fitting, 3/8" tube	
	915367	4	RING, Sealastic, 3/8" tube (Includes FERRULE)	
4	{ 069345	1	TUBE, oil supply, front filter (Used on all Model HD20G tractors and on Model HD20H and HD20F tractors prior to #4544)	
	077917	1	TUBE, oil supply, front filter (Started with Model HD20H and HD20F tractors #4544)	078274
	915369	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male	
	915366	1	NUT, Sealastic fitting, 3/8" tube	
	915367	1	RING, Sealastic, 3/8" tube (Includes FERRULE)	
5	069346	1	TUBE, oil supply, rear filter	
	915369	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male	
	915366	1	NUT, Sealastic fitting, 3/8" tube	
	915367	1	RING, Sealastic, 3/8" tube (Includes FERRULE)	
6	041262	1	CLIP, rear filter supply tube (closed type, 3/8" diam., 13/32" bolt-hole)	
7	{ 074218	1	TUBE, oil return, front filter (Used on all Model HD20G tractors and on Model HD20H and HD20F tractors prior to #4544)	
	077753	1	TUBE, oil return, front filter (Started with Model HD20H and HD20F tractors #4544)	078274
	915369	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male	
	915366	1	NUT, Sealastic fitting, 3/8" tube	
	915367	1	RING, Sealastic, 3/8" tube (Includes FERRULE)	
8	074219	1	TUBE, oil return, rear filter	
	915369	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male	
	915366	1	NUT, Sealastic fitting, 3/8" tube	
	915367	1	RING, Sealastic, 3/8" tube (Includes FERRULE)	
9	074209	1	TEE, oil return line (restricted orifice)	
	915366	2	NUT, Sealastic fitting, 3/8" tube	
	915367	2	RING, Sealastic, 3/8" tube (Includes FERRULE)	
10	-----	1	ADAPTOR, oil filter return	
11	{ -----	4	CAPSCREW, 3/8"NC x 1"	} See CYLINDER BLOCK
	-----	4	LOCKWASHER, 3/8"	
12	-----	1	GASKET, adaptor to cylinder block	
13	-----	-	TEE, cylinder block (See INSTRUMENTS)	



OIL FILTER

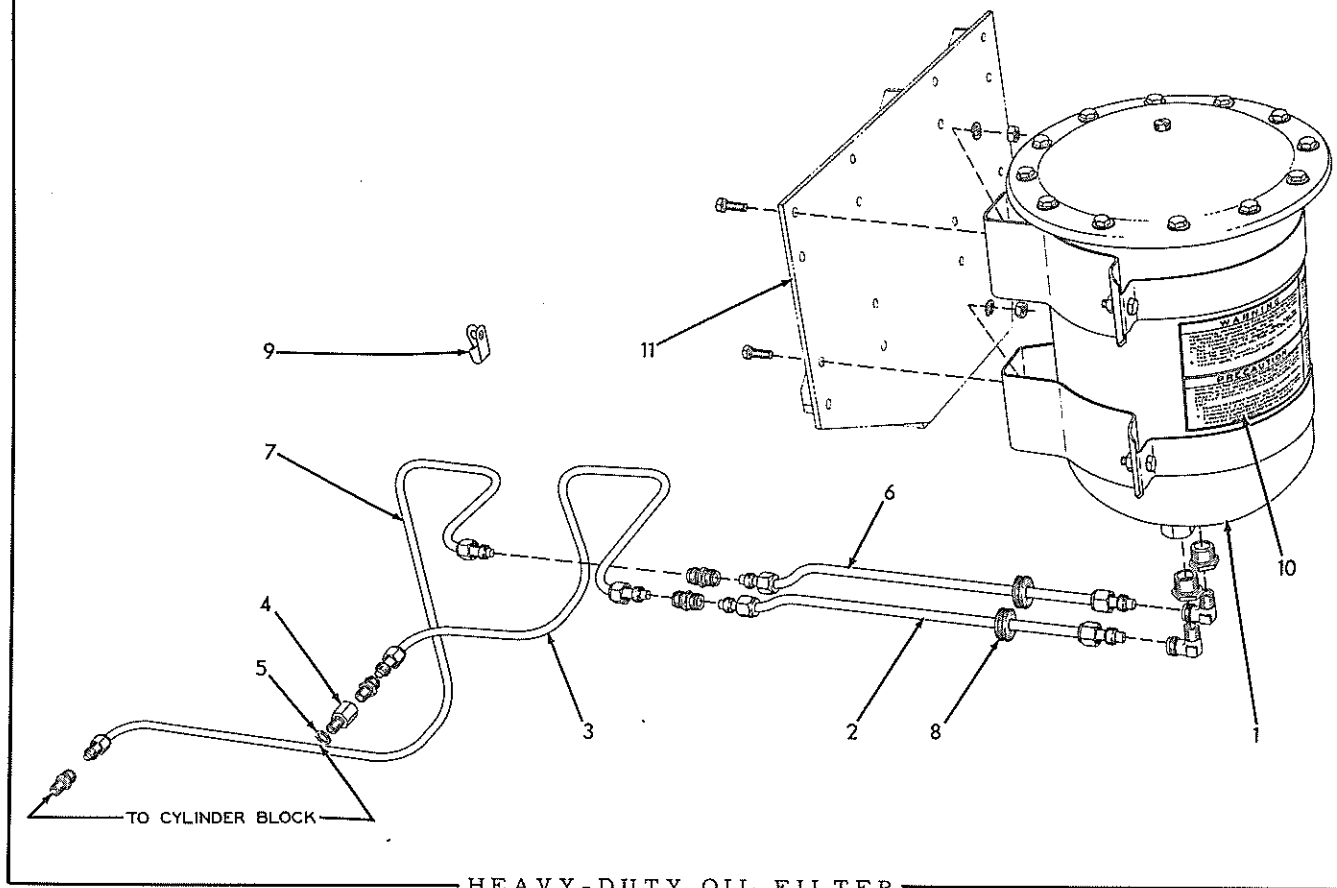
USAGE: Tractors serial No. 5434 and up.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	079357	1	FILTER ASSEMBLY, oil (Consists of items 4 thru 20)	
2	051473	2	CAPSCREW, 5/16"NC x 1-3/4"	
3	037450	10	CAPSCREW, 5/16"NC x 1-1/4"	
	904205	12	LOCKWASHER, 5/16"	
4	5187312	1	GASKET, adapting cover	
5	5187242	1	COVER, adapting	
	901651	2	PLUG, pipe, 1/8"NPT	
6	079369	2	GASKET, shell	
7	079352	2	ELEMENT KIT (Includes item 6)	
8	5179197	2	RING, snap, stud retaining	
9	5187309	2	RETAINER, filter element	
10	5187310	2	SEAL, filter element (rubber)	
11	5154538	2	WASHER, filter element seal (steel)	
12	5187308	2	SPRING, filter element	
13	079368	2	SHELL ASSEMBLY (Includes item 20)	
14	040330	2	GASKET, shell retaining stud	
15	5187307	2	STUD, shell retaining	
16	5187315	1	VALVE, by-pass	
17	5187314	1	SPRING, by-pass valve	
18	5187316	1	GASKET, by-pass valve plug	
19	5187313	1	PLUG, by-pass valve	
20	-----	2	TRANSFER, instruction (See PAINTING AND MARKING)	



OIL PRESSURE REGULATOR

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5175559	1	REGULATOR ASSEMBLY, oil pressure (Includes items 5 thru 8)	
	903777	2	CAPSCREW, 3/8"NC x 4"	
2	058793	3	CAPSCREW, 3/8"NC x 2-1/4"	
-	904206	5	LOCKWASHER, 3/8"	
3	5175569	1	GASKET, regulator to block	5183332
4	5175568	1	GASKET, regulator pipe to block	5183332
5	5175564	2	VALVE, pressure regulating	
6	5175565	2	SPRING, pressure regulating valve	
7	5175566	1	PLUG, pressure relief valve	
8	5175567	1	PLUG, pressure regulating valve	
9	5175593	1	PIPE, pump to regulator	
10	013059	2	CAPSCREW, 3/8"NC x 2"	
11	035439	2	CAPSCREW, 3/8"NC x 1"	
--	904206	4	LOCKWASHER, 3/8"	
12	5175604	1	GASKET, oil pipe to pump	5183332
13	3203430	1	GASKET, oil pipe to regulator	5183332

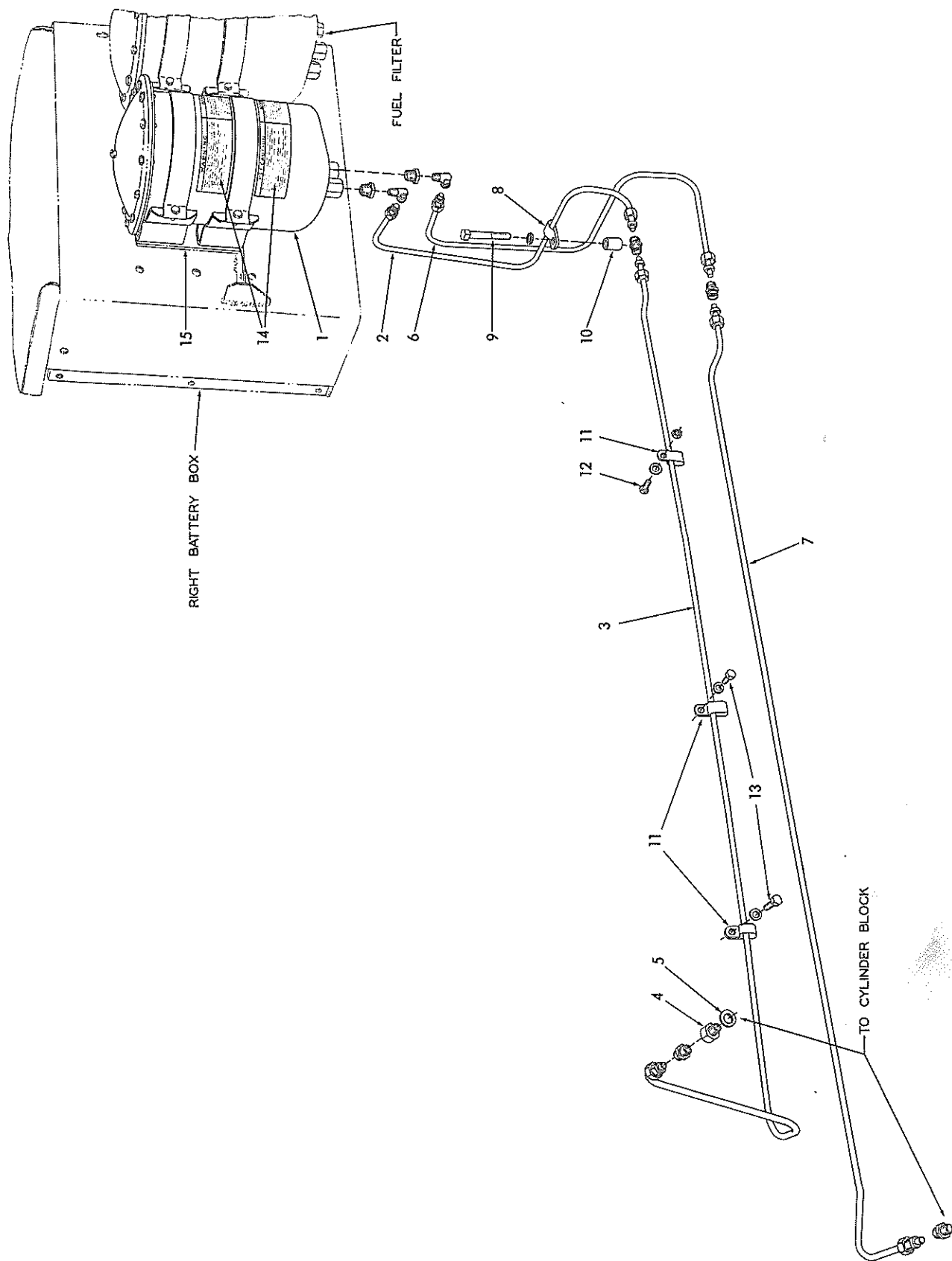


USAGE: Special Equipment for Model HD20H only. Mounts at rear of Cowl on right side. Also see pages 27, 28 and 33 for alternate installations.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	061817	1	FILTER ASSEMBLY, lubricating oil (See page 65 for repair parts)	
	911168	8	CAPSCREW, 5/16"NF x 7/8"	
	904205	8	LOCKWASHER, 5/16"	
	913636	8	NUT, 5/16"NF	
2	074665	1	TUBE, oil supply, rear section	
	915369	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male	
	915366	1	NUT, Sealastic fitting, 3/8" tube	
	915367	1	RING, Sealastic fitting, 3/8" tube (Includes FERRULE)	
	901839	1	BUSHING, pipe reducing, 1/2"NPT to 1/4"NPT	
3	074667	1	TUBE, oil supply, front section	
	915368	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male	
	915386	1	UNION, Sealastic, 3/8" tube	
	915366	3	NUT, Sealastic fitting, 3/8" tube	
	915367	3	RING, Sealastic fitting, 3/8" tube (Includes FERRULE)	
4	5178005	1	PLUG, adapting, oil supply tube	
5	5176774	1	GASKET, adapting plug	
6	074666	1	TUBE, oil return, rear section	
	915369	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male	
	915366	1	NUT, Sealastic fitting, 3/8" tube	
	915367	1	RING, Sealastic fitting, 3/8" tube (Includes FERRULE)	
	901839	1	BUSHING, pipe reducing, 1/2"NPT to 1/4"NPT	

(Continued)

ITEM	NUMBER	QTY.	DESCRIPTION	KIT NUMBER
7	074668	1	TUBE, oil return, front section	
	915368	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male	
	915386	1	UNION, Sealastic, 3/8" tube	
	915366	3	NUT, Sealastic fitting, 3/8" tube	
	915367	3	RING, Sealastic fitting, 3/8" tube (Includes FERRULE)	
8	040758	2	GROMMET, tube protecting (rubber)	
9	055676	1	CLIP, tube supporting (closed type, for two 3/8" diam. tubes, 13/32" bolt hole)	
10	-----	1	TRANSFER, warning (See PAINTING AND MARKING)	
11	-----	1	BRACKET, filter mounting (See HEAVY-DUTY FUEL FILTER)	

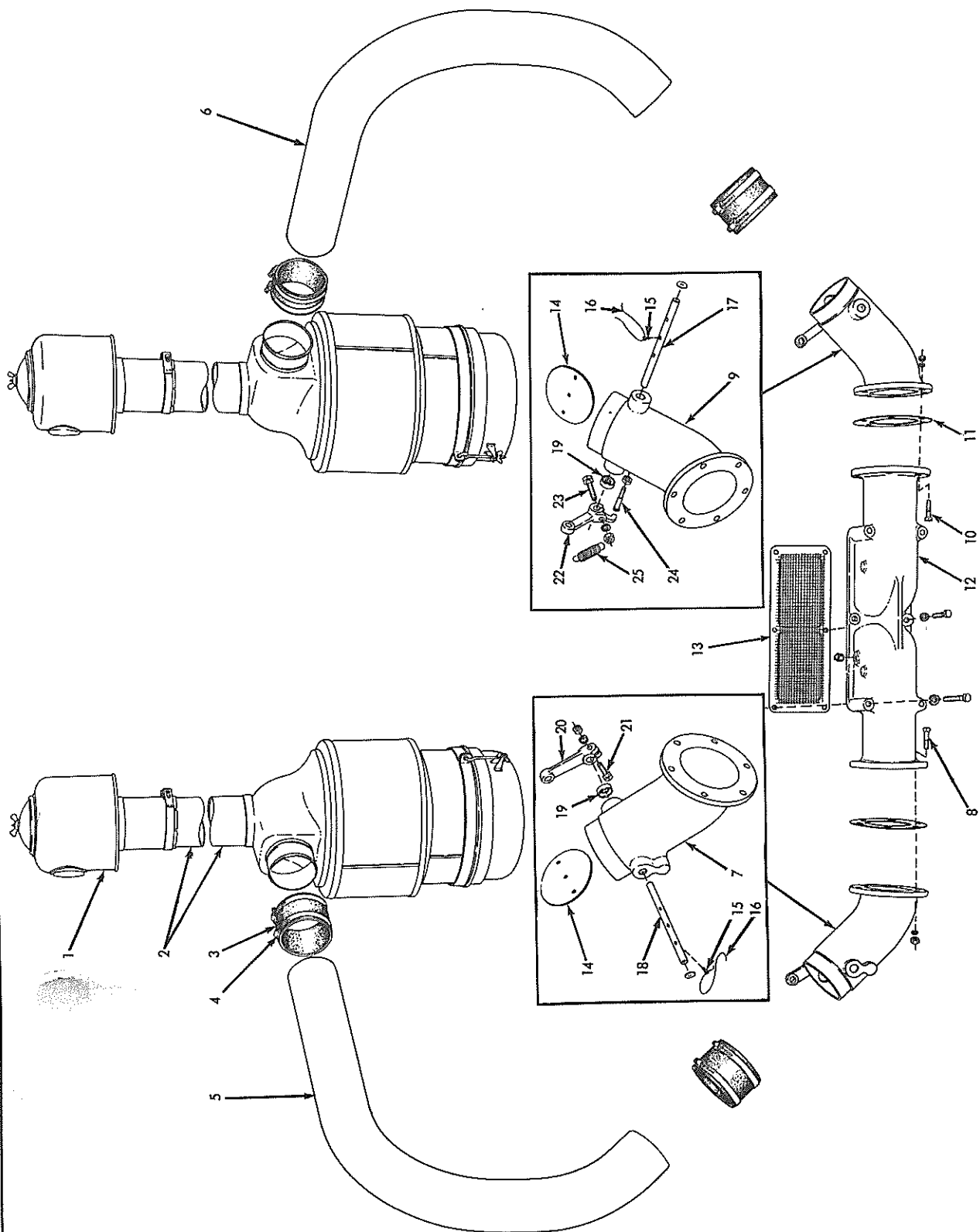


HEAVY-DUTY OIL FILTER (WITH CAB OR BAKER DOZER)

HEAVY-DUTY FUEL FILTER

USAGE: Special Equipment for Model HD20H tractors only when equipped with a Cab or with a Baker Hydraulic Dozer. Also see pages 27, 28 and 30 for alternate installations.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	061817	1	FILTER ASSEMBLY, lubricating oil (See page 65 for repair parts)	
	911168	8	CAPSCREW, 5/16"NF x 7/8"	
	904205	8	LOCKWASHER, 5/16"	
	913636	8	NUT, 5/16"NF	
2	076830	1	TUBE, oil supply, rear section	
	901839	1	BUSHING, pipe reducing, 1/2"NPT to 1/4"NPT	
	915369	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male	
	915366	1	NUT, Sealastic fitting, 3/8" tube	
	915367	1	RING, Sealastic fitting, 3/8" tube (Includes FERRULE)	
3	076829	1	TUBE, oil supply, front section	
	915386	1	UNION, Sealastic, 3/8" tube	
	915368	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male	
	915366	3	NUT, Sealastic fitting, 3/8" tube	
	915367	3	RING, Sealastic fitting, 3/8" tube (Includes FERRULE)	
4	5178005	1	PLUG, adapting, oil supply tube	
5	5176774	1	GASKET, adapting plug	
6	076831	1	TUBE, oil return, rear section	
	901839	1	BUSHING, pipe reducing, 1/2"NPT to 1/4"NPT	
	915369	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male	
	915366	1	NUT, Sealastic fitting, 3/8" tube	
	915367	1	RING, Sealastic fitting, 3/8" tube (Includes FERRULE)	
7	076828	1	TUBE, oil return, front section	
	915386	1	UNION, Sealastic, 3/8" tube	
	915368	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male	
	915366	3	NUT, Sealastic fitting, 3/8" tube	
	915367	3	RING, Sealastic fitting, 3/8" tube (Includes FERRULE)	
8	040811	1	CLIP, tube supporting, closed type, for two 3/8" diam. tubes, 7/32" bolt hole)	
9	070403	1	CAPSCREW, 1/2"NF x 3"	
	904208	1	LOCKWASHER, 1/2"	
10	065785	1	BLOCK, spacing, tube supporting clip	
11	042672	3	CLIP, tube supporting (closed type, for two 3/8" diam. tubes, 7/16" bolt hole)	
12	035979	1	CAPSCREW, 3/8"NF x 1"	
13	035167	2	CAPSCREW, 3/8"NF x 7/8"	
	904206	2	LOCKWASHER, 3/8"	
	911115	1	WASHER, plain, SAE std., 3/8"	
	911041	1	NUT, 3/8"NF	
14	-----	1	TRANSFER, warning (See PAINTING AND MARKING)	
15	-----	1	BRACKET, filter mounting (See HEAVY-DUTY FUEL FILTER)	



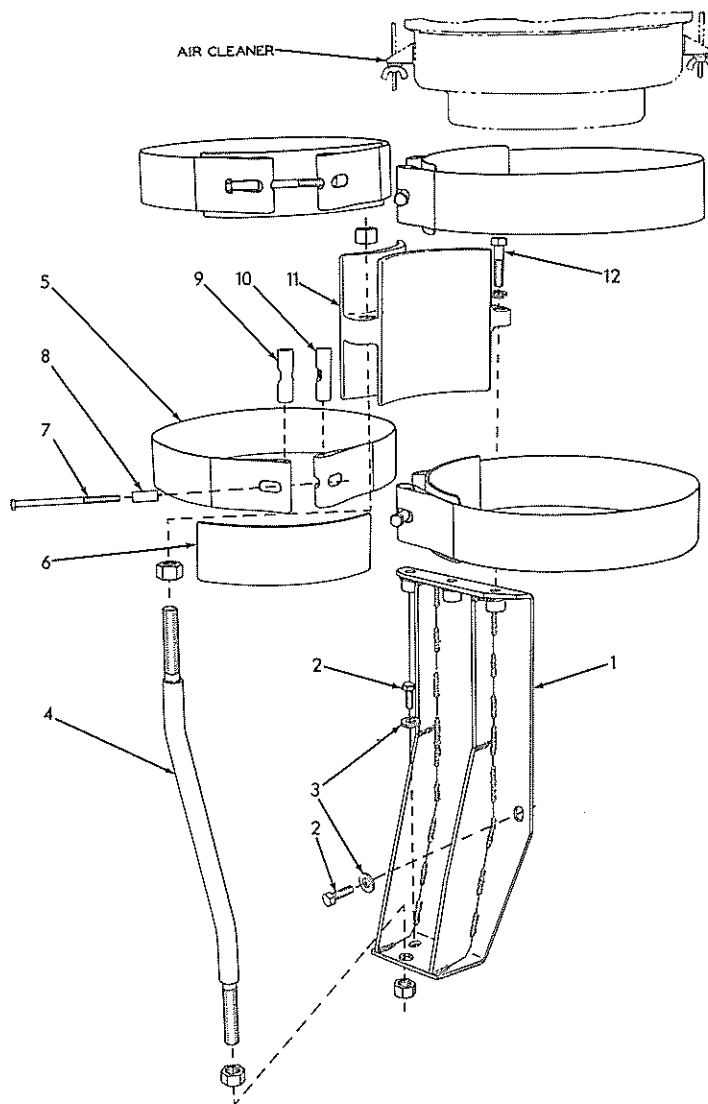
AIR CLEANER AND CONNECTIONS

*All Model HD20G tractors. Also Model HD20F and HD20H Tractors prior to serial No. 4544.

**Model HD20F and HD20H tractors serial No. 4544 and up.

PART QUANTITY				KIT NUMBER	
ITEM	NUMBER	*	**	DESCRIPTION	
1	074202	2	-	PRE-CLEANER ASSEMBLY, air (See page 38 for repair parts) (Order PRE-CLEANER ASSEMBLY 077919)	
	077919	- 2		PRE-CLEANER ASSEMBLY, air (See page 38 for repair parts)	078274
2	069695	2	-	CLEANER ASSEMBLY, air (12" diameter. See page 39 for repair parts)	
	077900	- 2		CLEANER ASSEMBLY, air (14" diameter. See page 39 for repair parts)	078274
3	068231	4	4	HOSE, air cleaner tube (4" I. D. x 3-3/4" long)	078274
4	061952	8	8	CLAMP, hose, adjustable, 3-7/8" to 4-3/4" diam.	
5	069231	1	-	TUBE, rear air cleaner	
	077396	- 1		TUBE, rear air cleaner	078274
6	069232	1	-	TUBE, front air cleaner	
	077759	- 1		TUBE, front air cleaner	078274
7	069211	1	1	ELBOW, rear air cleaner tube	
8	910001	1	1	PLUG, expansion, 5/8" diam.	
	U-3188	6	6	CAPSCREW, 3/8"NF x 1-1/2"	
	904206	6	6	LOCKWASHER, 3/8"	
	911041	6	6	NUT, 3/8"NF	
9	069212	1	1	ELBOW, front air cleaner tube	
10	910001	1	1	PLUG, expansion, 5/8" diam.	
	U-3188	6	6	CAPSCREW, 3/8"NF x 1-1/2"	
	904206	6	6	LOCKWASHER, 3/8"	
	911041	6	6	NUT, 3/8"NF	
11	069226	2	2	GASKET, elbow to air inlet housing	
12	069223	1	1	HOUSING, air inlet	
	910211	2	2	CAPSCREW, 3/8"NC x 1-1/4"	
	903777	4	4	CAPSCREW, 3/8"NC x 4"	
	904206	6	6	LOCKWASHER, 3/8"	
	901652	1	1	PLUG, pipe, 1/4"NPT (Plugs priming hole on tractors equipped with Air Heater)	
13	5150988	1	1	SCREEN, blower (also serves as air intake housing gasket)	
14	069294	2	2	VALVE, air shut-off	
15	040162	6	6	SCREW (drilled fil-hd., #10-24NC x 1/2")	
16	040163	2	2	WIRE, locking (1/32" x 7")	
17	069292	1	1	SHAFT, front air shut-off valve	
18	069293	1	1	SHAFT, rear air shut-off valve	
19	040302	2	2	SEAL, air shut-off valve shaft	
20	069281	1	1	LEVER, rear air shut-off valve	
21	035336	1	1	CAPSCREW, 3/8"NF x 1-3/4"	
	904206	1	1	LOCKWASHER, 3/8"	
	911041	1	1	NUT, 3/8"NF	
22	069278	1	1	LEVER, front air shut-off valve	
23	035336	1	1	CAPSCREW, 3/8"NF x 1-3/4"	
	904206	1	1	LOCKWASHER, 3/8"	
	911041	1	1	NUT, 3/8"NF	
24	068613	1	1	PIN, stop, front air shut-off valve lever	
	911034	1	1	NUT, jam, 3/8"NC	
25	-----	-	-	SPRING, air shut-off lever (See ENGINE CONTROLS)	

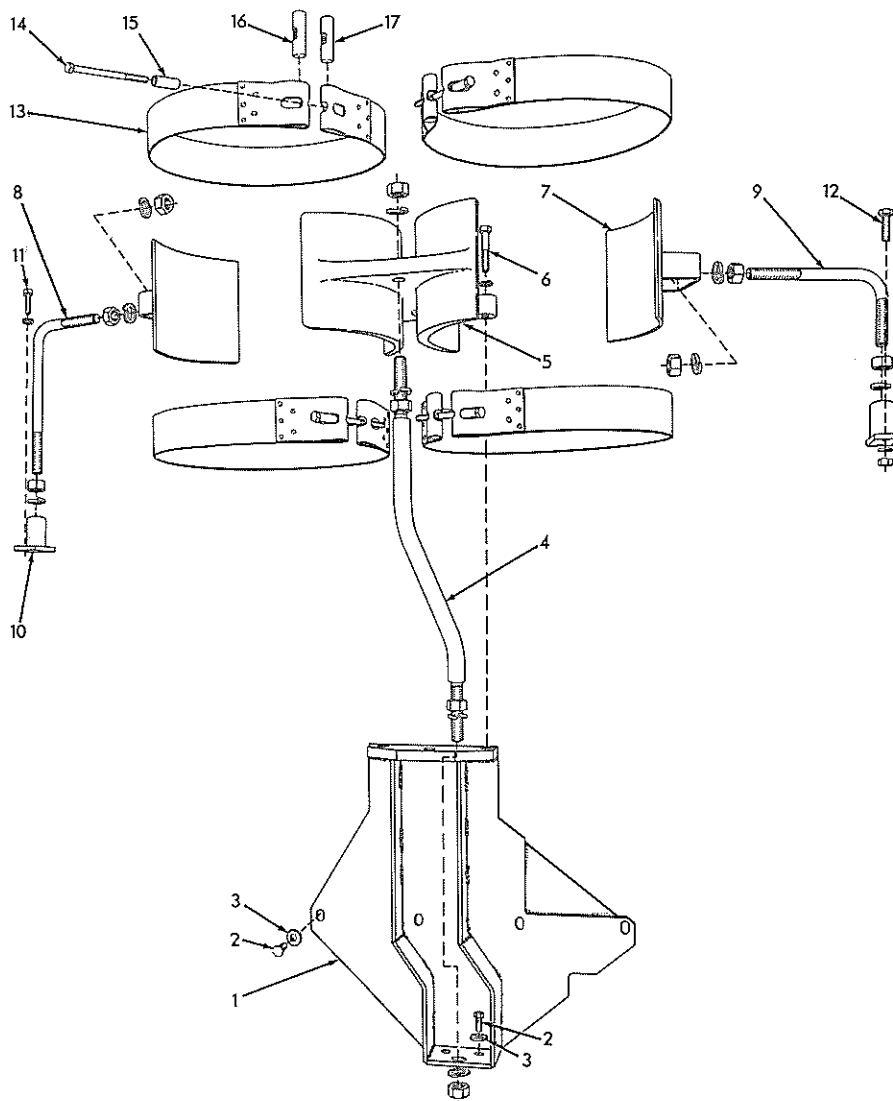
NOTE: See PAINTING AND MARKING for instruction TRANSFERS



AIR CLEANER MOUNTING

USAGE: All Model HD20G tractors. Also Model HD20F and HD20H tractors prior to serial No. 4544.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	068089	1	BRACKET, main mounting (Tractors prior to #5434)	
	079217	1	BRACKET, main mounting (Tractors #5434 and up)	
2	043886	4	CAPSCREW, 7/16"NC x 1"	
3	074790	4	WASHER, plain	
4	068086	1	ROD, bracing	
	911045	4	NUT, 3/4"NF	
5	068090	4	BAND, mounting	
6	077380	4	STRIP, closure, mounting band (Started with tractor #3911)	
7	053668	4	CAPSCREW, mounting band (3/8"NC x 5")	
8	053667	4	SPACER, mounting band capscREW	
9	056099	4	PIN, mounting band (plain hole)	
10	056100	4	PIN, mounting band (threaded hole)	
11	067878	1	BRACKET, mounting band	
12	035067	3	CAPSCREW, 1/2"NF x 2"	
	904208	3	LOCKWASHER, 1/2"	

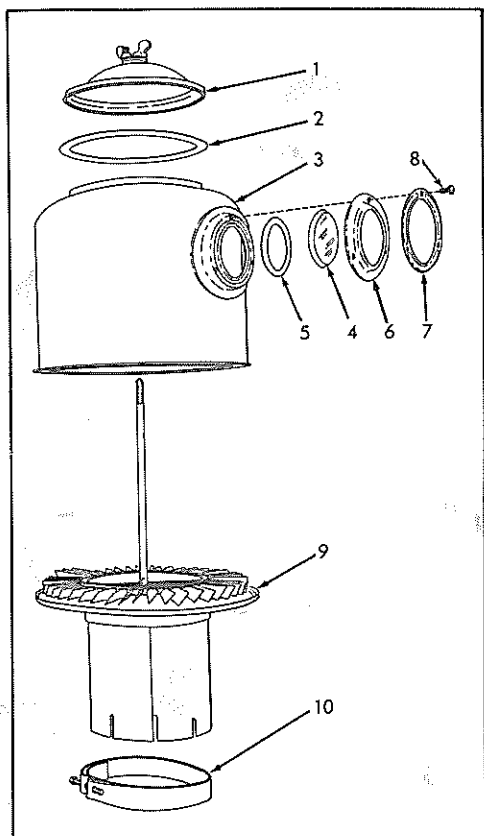


AIR CLEANER MOUNTING

USAGE: Model HD20F and HD20H tractor serial No. 4544 and up.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	077718	1	BRACKET, main mounting (Tractors prior to #5434)	078274
	079216	1	BRACKET, main mounting (Tractors #5434 and up)	
2	043886	6	CAPSCREW, 7/16" NC x 1"	078274
3	074790	6	WASHER, plain	078274
4	077734	1	ROD, bracing, center	078274
	911045	4	NUT, 3/4" NF	
	904369	4	LOCKWASHER, 3/4"	
5	077709	1	BRACKET, mounting band, center	078274
6	035892	3	CAPSCREW, 1/2" NF x 2-1/2"	078274
	904208	3	LOCKWASHER, 1/2"	
7	077912	2	BRACKET, mounting band, end	078274
8	077913	1	ROD, bracing, front	078274
	911045	3	NUT, 3/4" NF	
	904369	3	LOCKWASHER, 3/4"	
9	077911	1	ROD, bracing, rear	078274
	911045	3	NUT, 3/4" NF	
	904369	3	LOCKWASHER, 3/4"	

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
10)	077916	2	BRACKET, front and rear bracing rods	078274
11'	035733	2	CAPSCREW, 1/2"NC x 1-3/8" (front bracket)	078274
12	035018	2	CAPSCREW, 1/2"NF x 1-1/2" (rear bracket)	078274
	904208	4	LOCKWASHER, 1/2"	
	911043	2	NUT, 1/2"NF	
13	077752	4	BAND, mounting	078274
14	053668	4	CAPSCREW, mounting band (3/8"NC x 5")	
15	053667	4	SPACER, mounting band capscREW	
16	056099	4	PIN, mounting band (plain hole)	
17	056100	4	PIN, mounting band (threaded hole)	



AIR PRE-CLEANER PARTS

NOTE: See page 35 for listing of complete Pre-Cleaner Assembly.

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	044255	1	CAP ASSEMBLY (Includes wing NUT)
2	044256	1	GASKET, cap
3	074633	1	SHELL ASSEMBLY (Includes items 4 thru 8)
4	043860	1	GLASS, shell
5	043852	1	GASKET, shell glass
6	043853	1	RETAINER, shell glass
7	043991	1	RING, shell glass retainer
8	043856	3	SCREW ASSEMBLY (Includes LOCK-WASHER)
9	077920	1	FAN
10	074635	1	CLAMP, mounting (Includes SCREW and NUT)

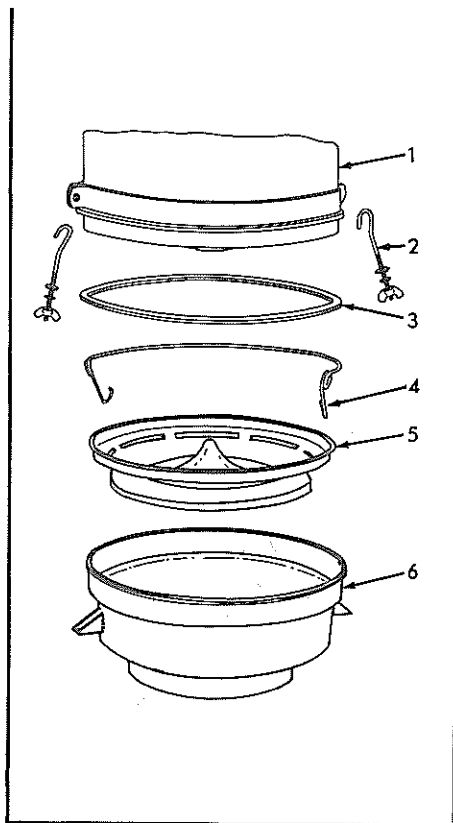
NOTE: Quantities indicated are for one Pre-Cleaner only.

AIR CLEANER ASSEMBLY 069695

USAGE: See page 35 for listing of complete Cleaner Assembly.

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	-----	1	BODY ASSEMBLY (Not serviced. Order CLEANER ASSEMBLY 069695)
2	059294	2	BOLT ASSEMBLY, oil cup retaining (Includes NUT and WASHERS)
3	074638	1	GASKET, oil cup
4	074639	1	RING, baffle retaining
5	076579	1	BAFFLE, air
6	074641	1	CUP, oil

NOTE: Quantities indicated are for one Cleaner Assembly only.

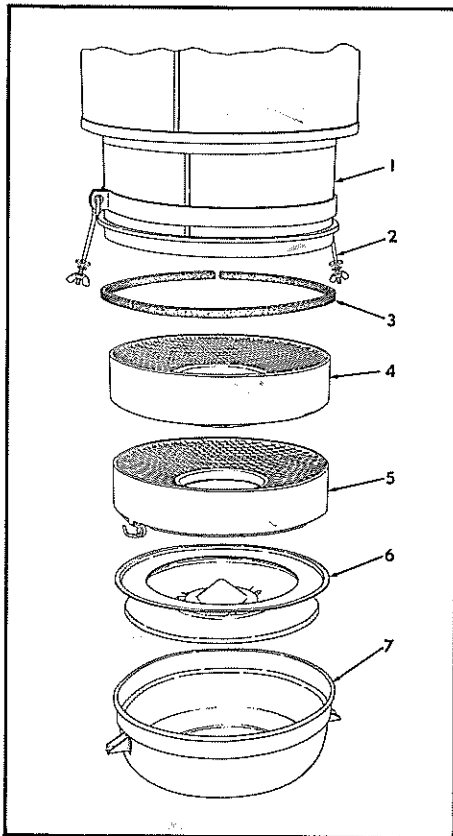


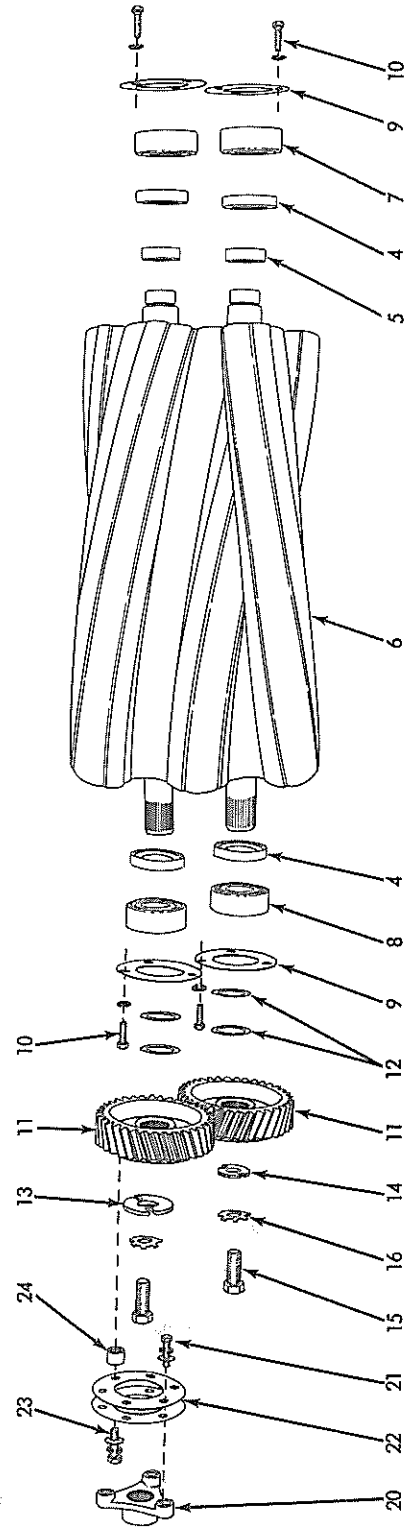
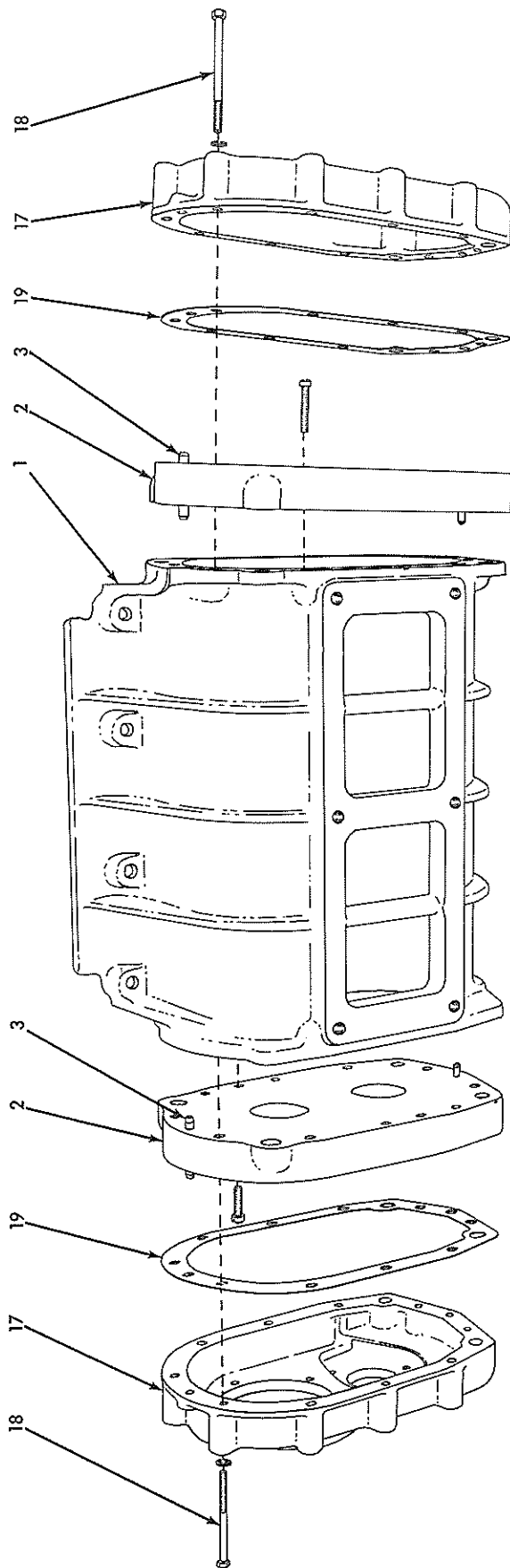
AIR CLEANER ASSEMBLY 077900

USAGE: See page 35 for listing of complete Cleaner Assembly.

1	-----	1	BODY ASSEMBLY (Not serviced. Order CLEANER ASSEMBLY 077900)
2	059294	2	BOLT ASSEMBLY, oil cup retaining (Includes NUT and WASHERS)
3	074638	1	GASKET, oil cup
4	077896	1	ELEMENT, filtering, upper unit
5	077899	1	ELEMENT ASSEMBLY, filtering, lower unit (Includes baffle retaining SPRING)
6	077898	1	BAFFLE, air
7	077897	1	CUP, oil

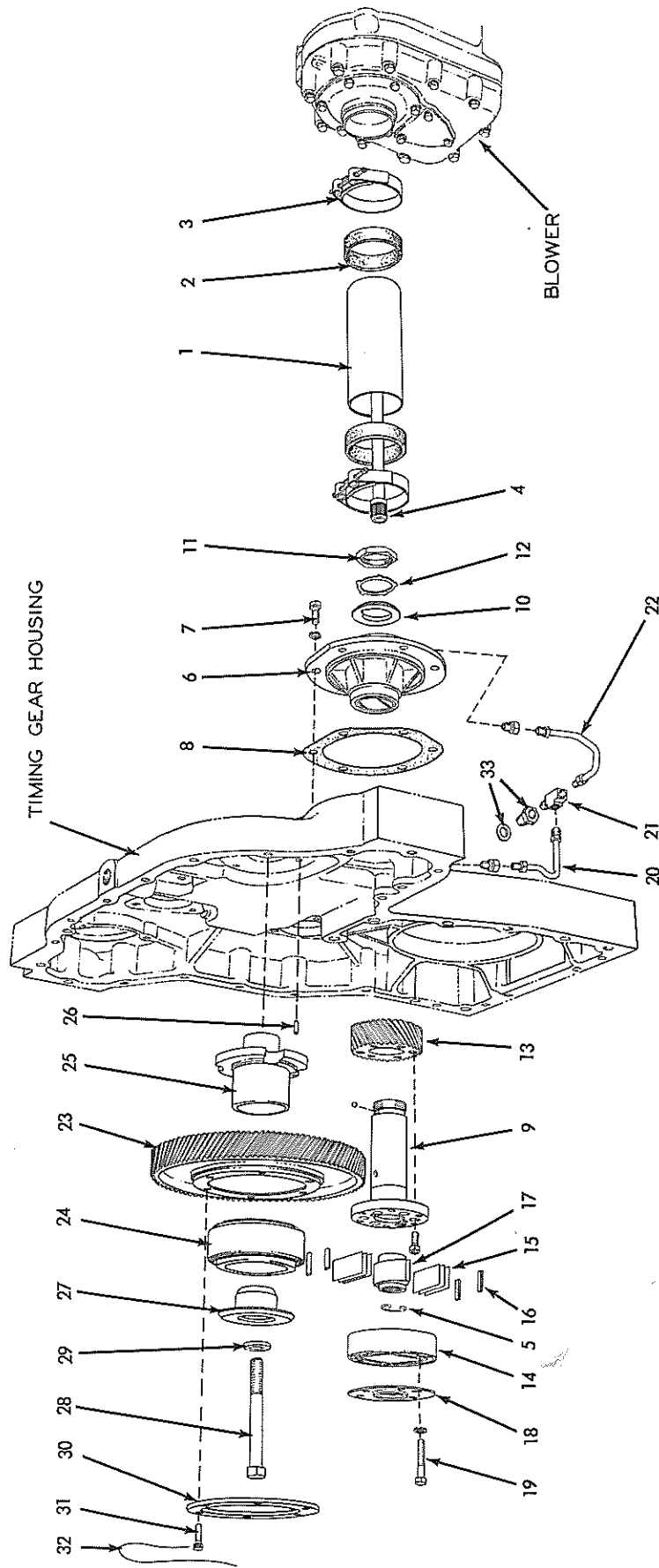
NOTE: Quantities indicated are for one Cleaner Assembly only.



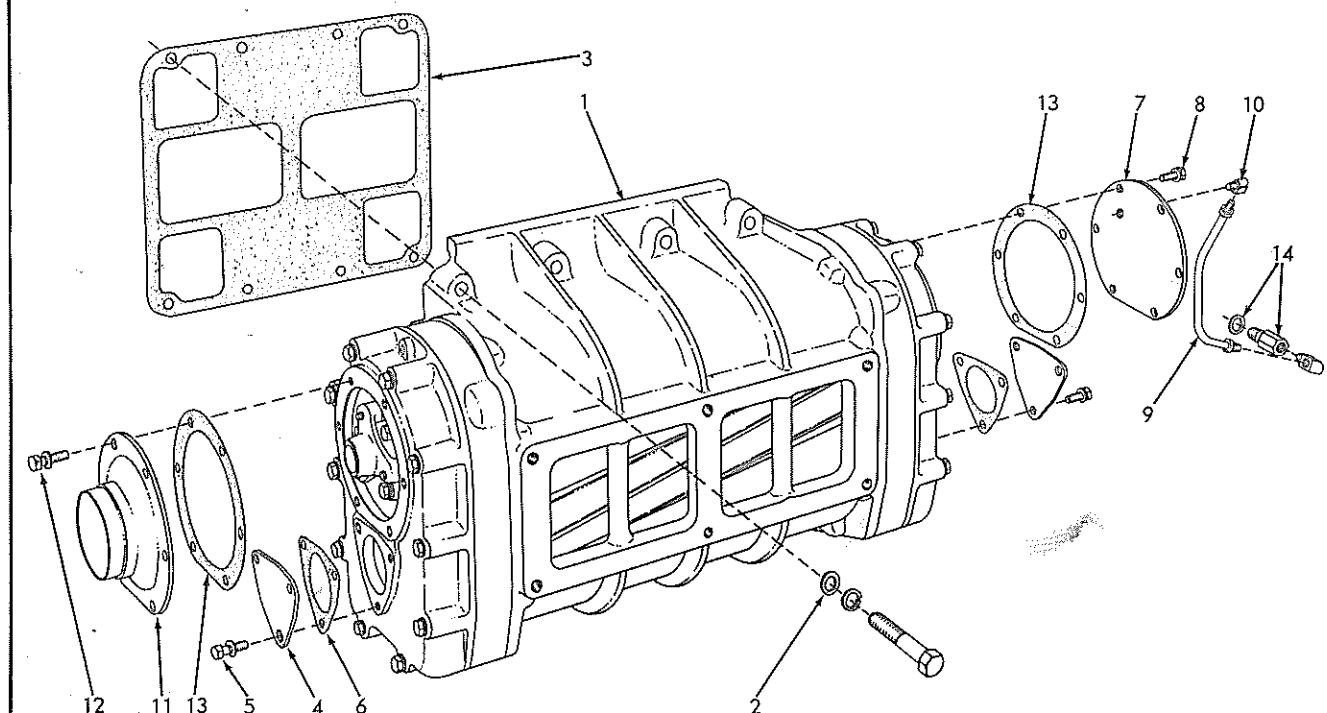


NOTE: See page 44 for listing of complete Blower Assembly.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5155866	1	HOUSING	
2	5150218	2	PLATE ASSEMBLY, end (Includes items 3 and 4)	
	901240	4	CAPSCREW, fil-hd., 5/16"NC x 1-1/2"	
3	-----	4	PIN, dowel (Not serviced separately)	
4	5150220	4	SEAL, oil (1-3/16" shaft diam. Original Equipment)	
	5192438	4	SEAL, oil (1-3/8" shaft diam. For use when rotor shaft is too worn to permit use of standard SEAL 5150220. Also order SPACER 5192439 to make initial installation)	
5	5192439	4	SPACER (Provides new seal surface for worn rotor shafts. Requires use of OIL SEAL 5192438)	
6	5192795	1	ROTOR SET (Consists of 1 upper ROTOR and 1 lower ROTOR, matched for proper operating clearance)	
7	7450168	2	BEARING, roller, front	
8	042991	2	BEARING, ball, rear	
9	5179017	4	RETAINER, front bearing	
10	034964	12	CAPSCREW, 1/4"NC x 3/4"	
	904204	12	LOCKWASHER, 1/4"	
11	5192234	1	GEAR SET (Gears are matched and are not serviced separately)	
12	5150372	-	SHIM, rotor gear (.002" thick. Use as req'd)	
	5153938	-	SHIM, rotor gear (.003" thick. Use as req'd)	
	5150855	-	SHIM, rotor gear (.005" thick. Use as req'd)	
	5150856	-	SHIM, rotor gear (.010" thick. Use as req'd)	
13	5154400	1	WASHER, retaining, upper rotor gear	
14	5154401	1	DISC, coupling	
15	070469	2	CAPSCREW, 1/2"NF x 1-1/4"	
16	5154398	2	LOCKWASHER, special	
17	5150233	2	COVER, end plate	
18	040378	20	CAPSCREW, 5/16"NC x 3-1/2"	
	904205	20	LOCKWASHER, 5/16"	
19	5150234	2	GASKET, end plate cover	5183332
20	5173366	1	HUB, driving	
21	5173362	3	BOLT (5/16"NF x 3/4")	
	904205	3	LOCKWASHER, 5/16"	
	910335	3	WASHER, plain, SAE std., 5/16"	
22	5173365	2	PLATE, driving hub	
23	5173363	3	BOLT (5/16"NF x 1")	
	904205	3	LOCKWASHER, 5/16"	
	910335	3	WASHER, plain, SAE std., 5/16"	
24	5173364	3	SPACER, driving hub plate	

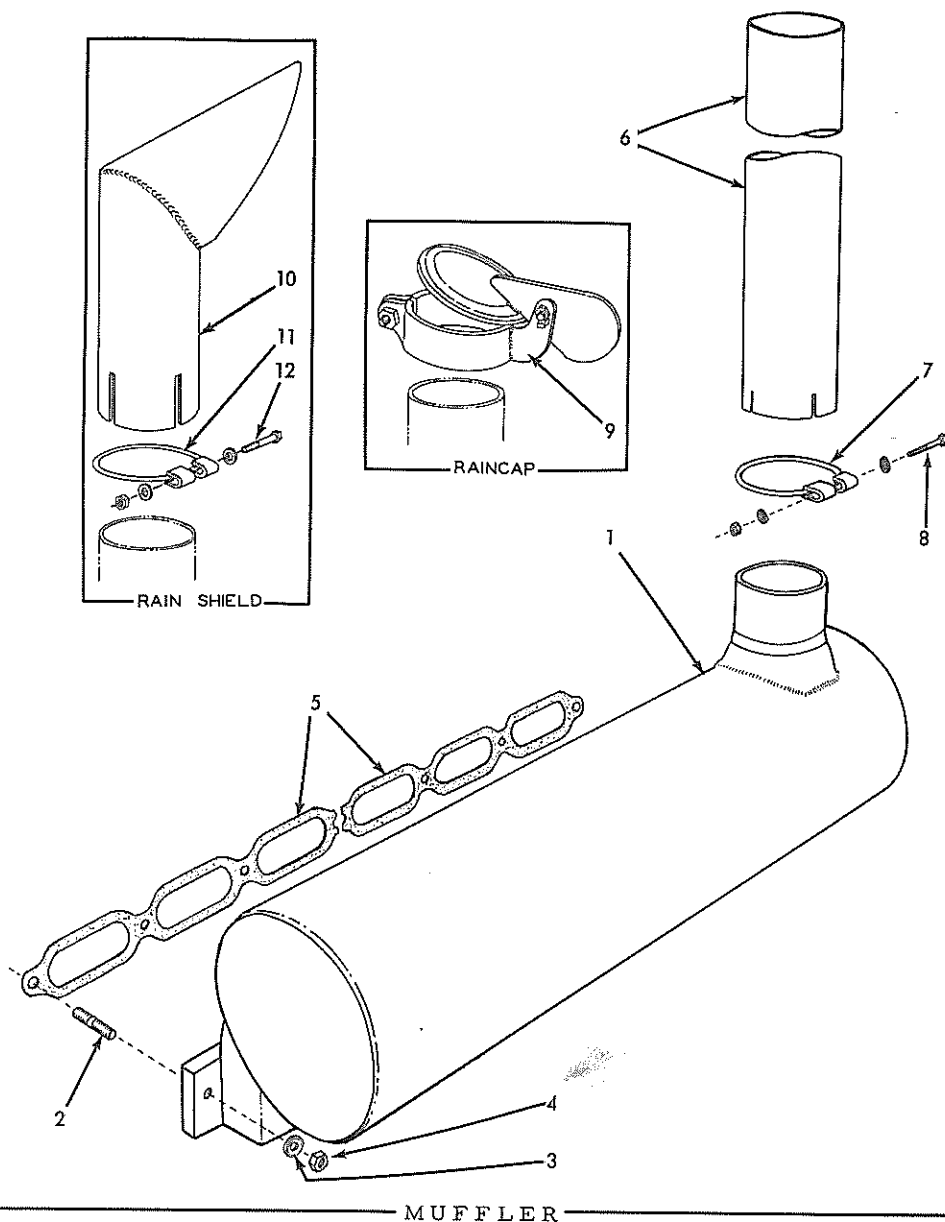


ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5182375	1	COVER, blower drive shaft	
2	5172865	2	SEAL, blower drive shaft cover	
3	5173695	2	CLAMP, hose, 3-1/8" diam.	
4	5182371	1	SHAFT, blower drive	
5	5154637	1	RING, snap, blower drive shaft	
6	5182362	1	SUPPORT ASSEMBLY, blower drive (Includes BUSHINGS which are not serviced separately)	
7	044249	2	CAPSCREW, 3/8"NC x 1-1/8"	
	904206	2	LOCKWASHER, 3/8"	
8	5150286	1	GASKET, blower drive support	5183332
9	5182363	1	HUB, drive gear	
10	5179671	1	WASHER, thrust	
	912738	1	BALL, steel, 7/32" diam.	
11	5152804	1	NUT, gear hub	
12	5150281	1	LOCKWASHER, gear hub nut	
13	5182360	1	GEAR, blower drive (35 teeth)	
	915860	6	CAPSCREW, hex-socket, 5/16"NF x 5/8"	
14	5150345	1	SUPPORT, coupling	
15	5150347	42	SPRING, coupling	
16	5150346	4	SEAT, coupling spring	
17	5150348	1	CAM, coupling	
18	5150349	1	RETAINER, coupling	
19	074152	6	CAPSCREW, 5/16"NF x 1-5/8"	
	904205	6	LOCKWASHER, 5/16"	
20	5182461	1	TUBE ASSEMBLY, oiling, idler gear bearing (Includes NUTS)	
	915856	1	CONNECTOR, inverted flare, 5/16" tube, 1/8"NPT	
21	074151	1	TEE, inverted flare, 5/16" tube side and end, 1/8"NPT end	
22	5182404	1	TUBE ASSEMBLY, oiling, blower drive support (Includes NUTS)	
	915856	1	CONNECTOR, inverted flare, 5/16" tube, 1/8"NPT	
23	5182309	1	GEAR, idler (113 teeth)	
24	7450209	1	BEARING ASSEMBLY, roller (Includes SPACER. Serviced only as a unit)	
25	5182269	1	HUB, idler gear	
26	074153	1	PIN, dowel, idler gear hub	
27	5182434	1	RETAINER, idler gear	
28	074156	1	CAPSCREW, 5/8"NC x 4-3/4"	
29	5175505	1	WASHER, plain	
30	5179514	1	RETAINER, idler gear bearing	
31	074155	6	CAPSCREW (3/8"NF x 7/8", drilled head)	
32	5160060	3	WIRE, locking	
33	-----	1	FITTING, oil connection	} See CYLINDER BLOCK
	-----	1	GASKET, oil connection fitting	

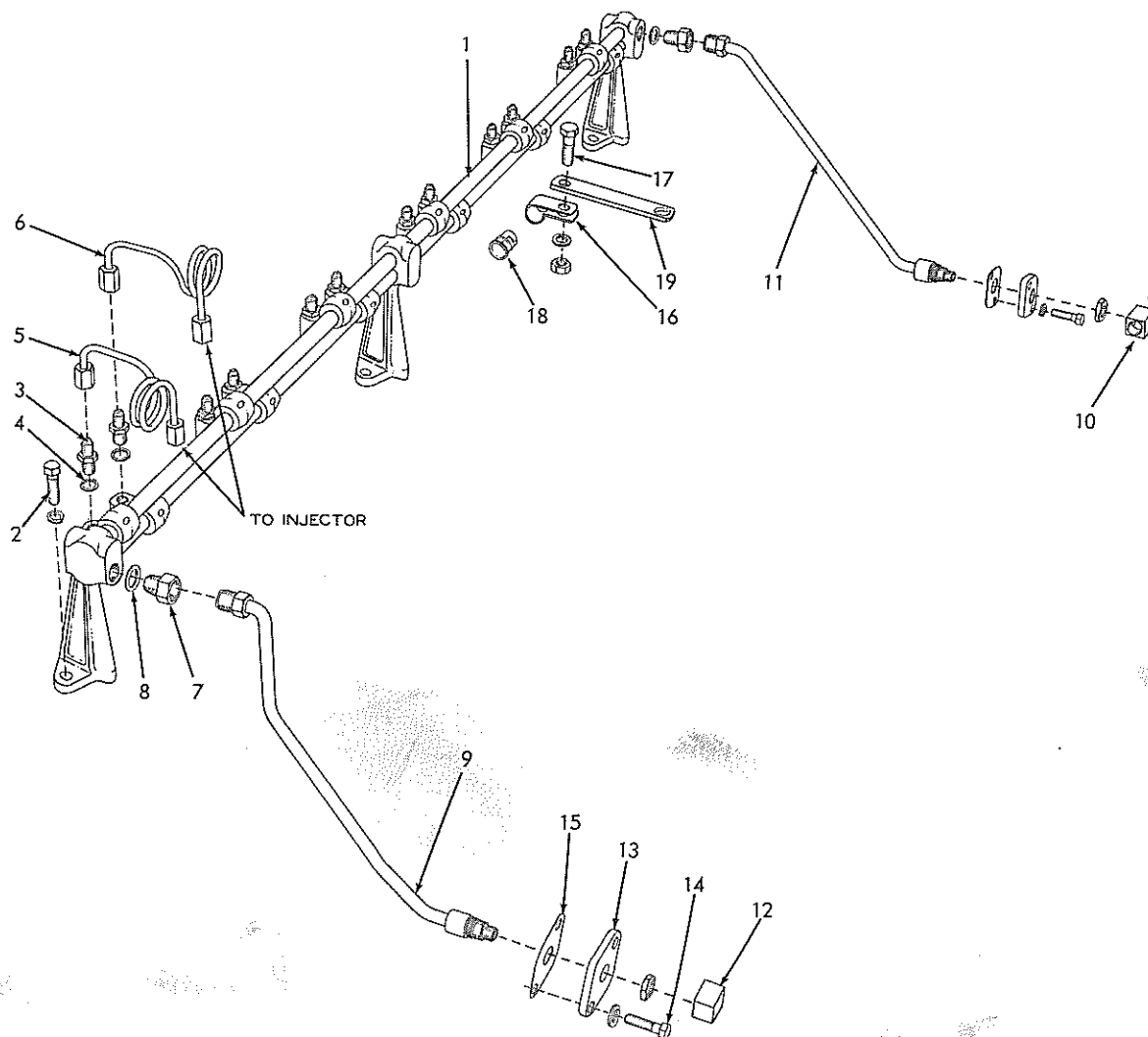


BLOWER

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5157396	1	BLOWER ASSEMBLY (See page 41 for repair parts)	
	912190	8	CAPSCREW, 7/16"NC x 2-1/2"	
	904207	8	LOCKWASHER, 7/16"	
2	5150238	8	WASHER, plain	
3	5150237	1	GASKET, blower	5183332
4	5152716	2	COVER, blower ends, lower	
5	5171159	6	BOLT ASSEMBLY (Includes copper WASHER)	
6	5150193	2	GASKET, blower lower end cover	5183332
7	5169747	1	PLATE, cover, blower front end, upper	
8	5171159	6	CAPSCREW ASSEMBLY (Includes copper WASHER)	
9	5182463	1	TUBE ASSEMBLY, oiling, blower front bearings (Includes NUTS)	
	914118	1	ELBOW, inverted flare, 90°, 5/16" tube, 1/4"NPT	
10	5164311	1	ELBOW, blower oil tube (restricted)	
11	5172867	1	COVER, blower, rear	
12	5171159	6	BOLT ASSEMBLY (Includes copper WASHER)	
13	5150246	2	GASKET, blower covers	5183332
14	{	1	PLUG, cylinder block	See CYLINDER BLOCK
	{	1	GASKET, cylinder block	



ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	068316	1	MUFFLER, exhaust	
2	5183570	7	STUD (1/2"NC x 1/2"NF x 2-7/8")	
3	5186715	7	WASHER, cupped (3/16" thick)	
4	074423	7	NUT, brass, 1/2"NF	
5	5176731	2	GASKET, exhaust manifold	5183332 5193466
6	068319	1	PIPE, exhaust	
7	074140	1	CLAMP, exhaust pipe	
8	041911	1	CAPSCREW, 3/8"NF x 3-1/2"	
	911115	2	WASHER, plain, SAE std., 3/8"	
	911041	1	NUT, 3/8"NF	
NOTE: The following items are Special Equipment				
9	074630	1	RAINCAP, exhaust pipe	
10	077281	1	SHIELD, rain, exhaust pipe	
11	074140	1	CLAMP, exhaust pipe rain shield	
12	043416	1	CAPSCREW, 3/8"NF x 4-1/2"	
	911115	2	WASHER, plain, SAE std., 3/8"	
	911041	1	NUT, 3/8"NF	

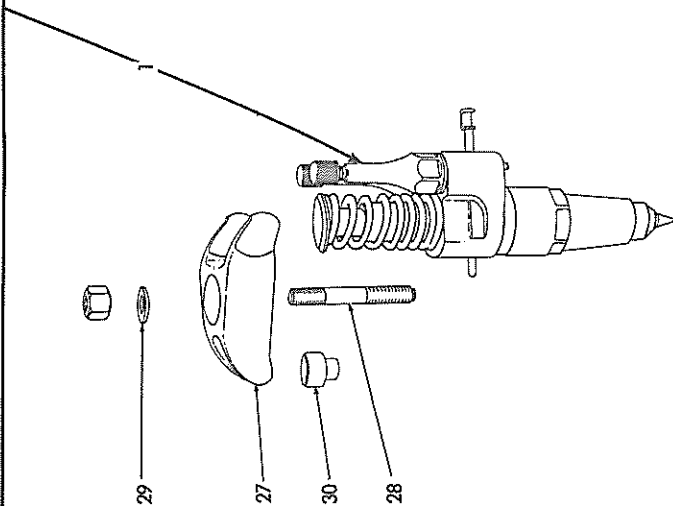
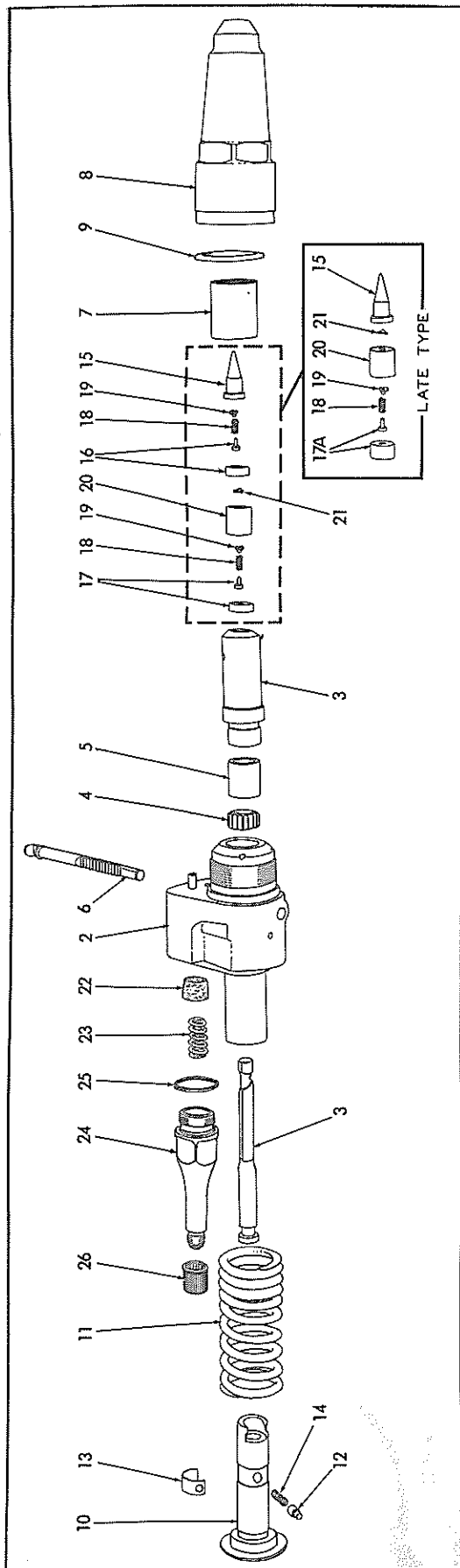


FUEL MANIFOLD

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5188108	1	MANIFOLD ASSEMBLY, fuel (Includes items 3 and 4)	
2	045295	6	CAPSCREW, 5/16"NC x 1"	
	904205	6	LOCKWASHER, 5/16"	
3	5175506	12	CONNECTOR, fuel manifold (3/8"NF tube connection)(Engines prior to #6B-5760)	
	5188039	12	CONNECTOR, fuel manifold (7/16"NF tube connection)(Engines #6B-5760 and up)	
4	5152148	12	WASHER, fuel manifold connector	
5	5179603	6	TUBE ASSEMBLY, manifold to injector, left hand (3/16" diam. Includes NUTS)(Engines prior to #6B-5760)	
	5188041	6	TUBE ASSEMBLY, manifold to injector, left hand (1/4" diam. Includes NUTS)(Engines #6B-5760 and up)	
6	5179604	6	TUBE ASSEMBLY, manifold to injector, right hand (3/16" diam. Includes NUTS)(Engines prior to #6B-5760)	
	5188042	6	TUBE ASSEMBLY, manifold to injector, right hand (1/4" diam. Includes NUTS)(Engines #6B-5760 and up)	
7	5176096	2	CONNECTOR, fuel pipe	

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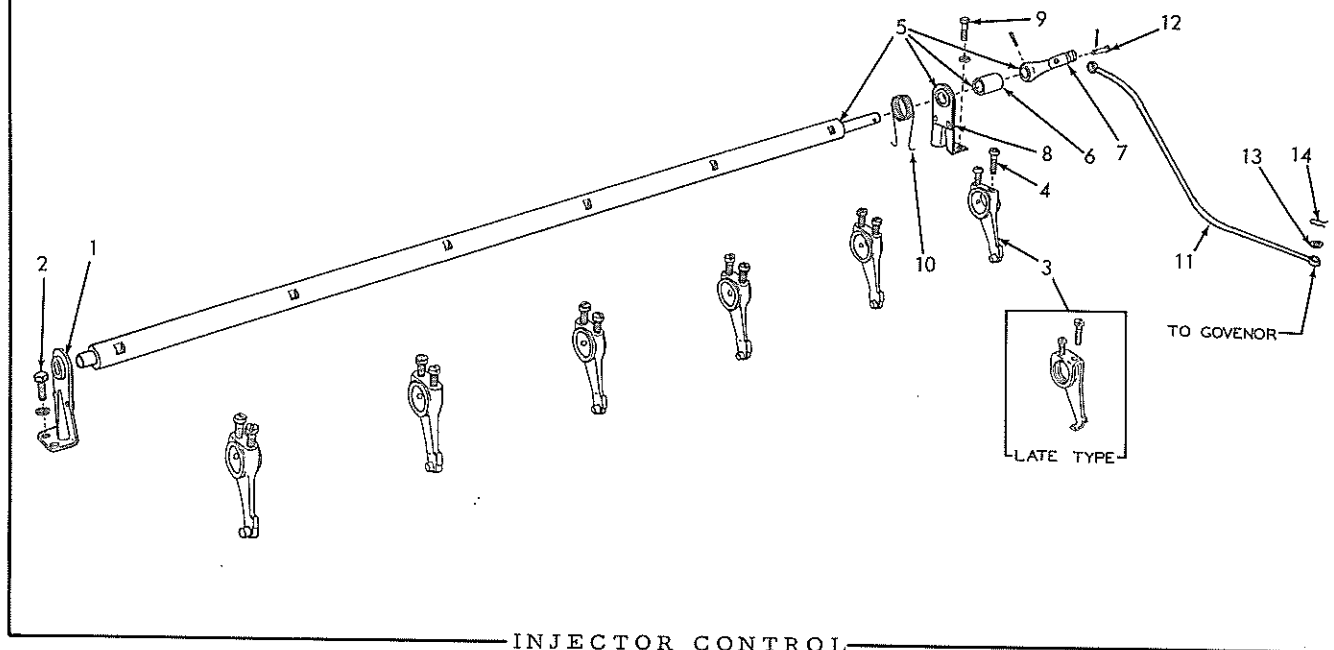
ITEM	NUMBER	QTY.	DESCRIPTION	KIT NUMBER
8	5176215	2	WASHER, fuel pipe connector (copper)	
9	{ 5184912 5183694	1 1	TUBE ASSEMBLY, fuel supply (Includes NUT) NUT, thin (1/2"NF)	
10	5183596	1	ELBOW, fuel supply pipe (1/8"NPT and 1/4"NPT female)	
11	{ 5184911 5183694	1 1	TUBE ASSEMBLY, fuel return (Includes NUT) NUT, thin (1/2"NF)	
12	5179991	1	ELBOW, fuel return pipe (1/8"NPT and 1/4"NPT female)	
13	{ 5176586 5184914	2 2	FLANGE, fuel pipe (1/4" thick)(Engines prior to #6B-2090) FLANGE, fuel pipe (3/16" thick)(Engines #6B-2090 and up)	
14	054130 904205	4 4	CAPSCREW, 5/16"NC x 7/8" LOCKWASHER, 5/16"	
15	5175403	2	GASKET, fuel pipe flange	5183332 5193466
16	207091	2	CLIP, fuel manifold support	
17	036032 904206 911041	2 2 2	CAPSCREW, 3/8"NF x 3/4" LOCKWASHER, 3/8" NUT, 3/8"NF	
18	5183255	2	SLEEVE, fuel manifold clip (rubber)	
19	5179635	2	SUPPORT, fuel manifold	



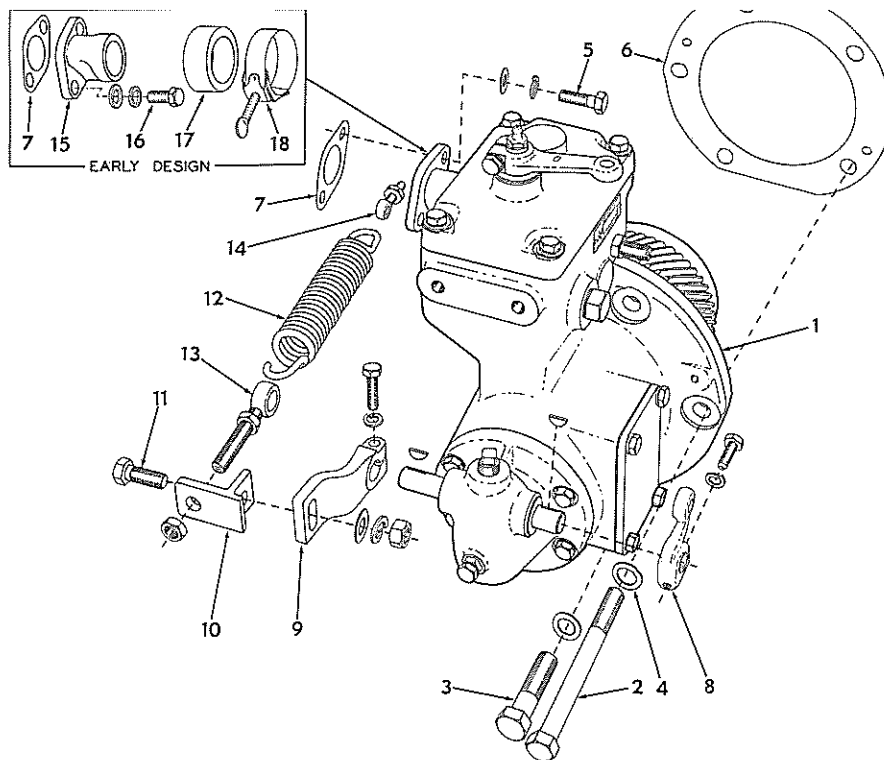
INJECTOR

* Tandem-valve type. Original equipment.
 ** High-valve type. Service replacement units only.

ITEM	PART NUMBER	QUANTITY	* **	DESCRIPTION	KIT NUMBER
1	5228320	6	6	INJECTOR ASSEMBLY, fuel (Consists of items 2 thru 26)	
2	5228025	6	6	BODY ASSEMBLY (Each includes 1 snap RING and 1 dowel PIN. Serviced only as a unit)	
3	5228119	6	6	PLUNGER ASSEMBLY (Each consists of 1 PLUNGER, 1 BUSHING and 1 PIN. Serviced only as a unit)	
4	5227987	6	6	GEAR, plunger	
5	5227997	6	6	RETAINER, plunger gear	
6	5228035	6	6	RACK, control	
7	5227996	6	6	DEFLECTOR, fuel spill	
8	5227988	6	6	NUT, retaining	
9	5228003	6	6	RING, nut sealing	5193220
10	5227991	6	6	FOLLOWER, plunger	
11	5228094	6	6	SPRING, follower	
12	5227994	6	6	PIN, follower stop	
13	5227993	6	6	RETAINER, follower stop pin	
14	5227992	6	6	SPRING, follower stop pin	
15	5228121	6	-	TIP, spray	
	5228353	-	6	TIP, spray	
16	5228038	6	-	VALVE ASSEMBLY, lower (Serviced only as a unit)	
17	5228037	6	-	VALVE ASSEMBLY, upper (Serviced only as a unit)	
17A	5228351	-	6	VALVE ASSEMBLY (Serviced only as a unit)	
18	5227210	12	6	SPRING, valve	
19	5227318	12	6	STOP, valve	
20	5227998	6	6	CAGE, upper valve	
21	5226411	6	6	VALVE, check	
22	5228013	12	12	ELEMENT, fuel filtering	5193220
23	5226415	12	12	SPRING, retaining, fuel filtering element	
24	5228023	12	12	CAP, fuel filtering element (3/8"NF tube connection)(Engines prior to #6B-5760)	
	5228318	12	12	CAP, fuel filtering element (7/16"NF tube connection)(Engines #6B-5760 and up)	
25	5228024	12	12	GASKET, fuel filtering element cap	5193220
26	5226414	12	12	CAP, shipping (Remove when installing INJECTOR)(For use with 5228023 CAP only)	5193220
	5228317	12	12	CAP, shipping (Remove when installing INJECTOR)(For use with 5228318 CAP only)	
27	5175277	6	6	CLAMP, injector	
28	5175281	6	6	STUD (7/16"NC x 7/16"NF x 2.80")	
	911042	6	6	NUT, 7/16"NF	
29	5173811	6	6	WASHER, plain	
30	5175323	6	6	SUPPORT, injector clamp	

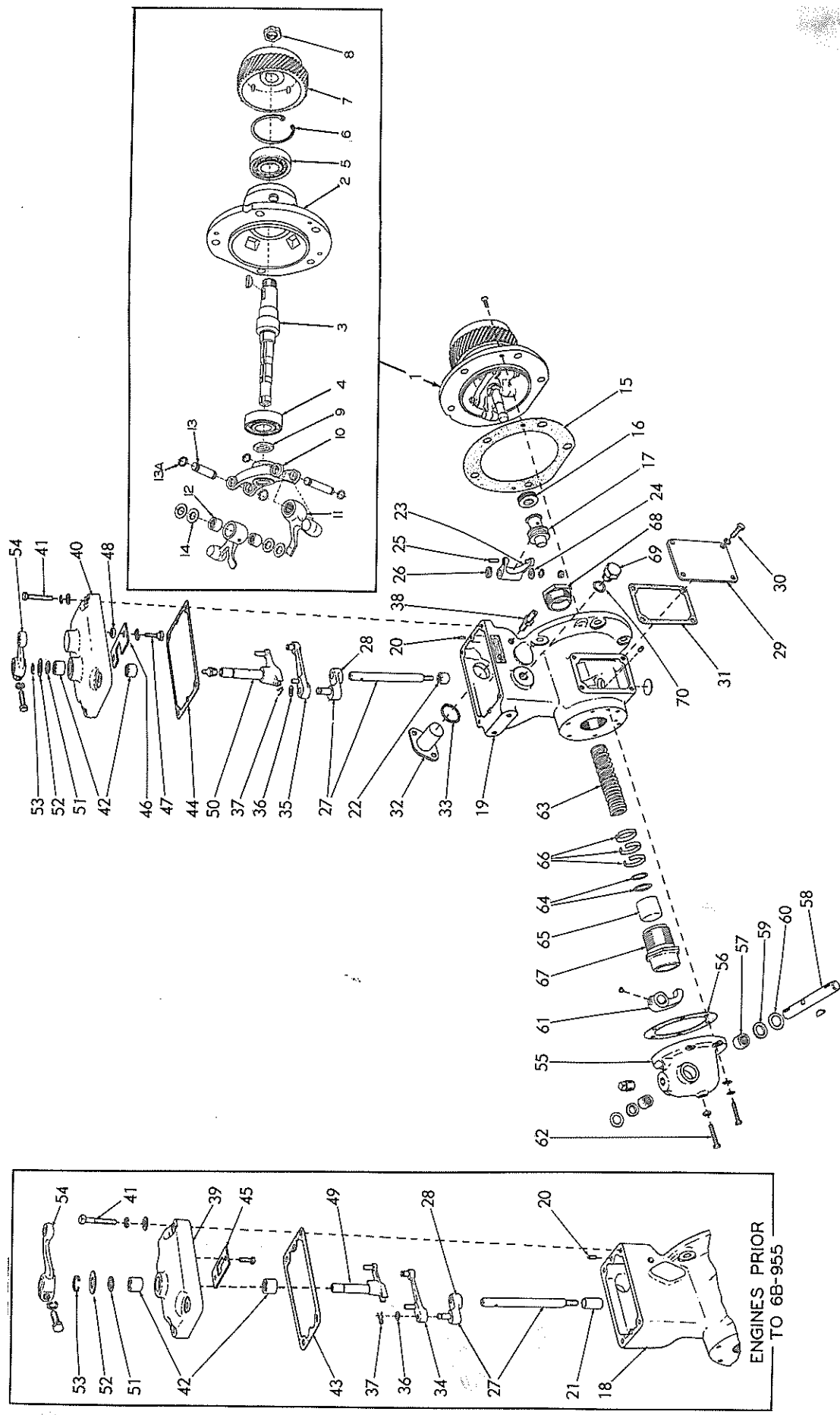


INJECTOR CONTROL				KIT NUMBER
ITEM	PART NUMBER	QTY.	DESCRIPTION	
1	5161677	1	BRACKET, control tube, front end	
2	047478	2	CAPSCREW, 1/4"NC x 5/8"	
	904204	2	LOCKWASHER, 1/4"	
3	5184067	6	LEVER ASSEMBLY, rack control (Includes item 4)	
4	5176228	12	BOLT, rack control lever (1/4"NC x 11/16")	
5	5193003	1	TUBE ASSEMBLY, control (Includes items 6 thru 8)	
6	5175387	1	SPACER, control lever	
7	5182089	1	LEVER, control tube	
	910274	1	PIN, groove, 1/8" x 3/4"	
8	5161677	1	BRACKET, control tube, rear end	
9	047478	2	CAPSCREW, 1/4"NC x 5/8"	
	904204	2	LOCKWASHER, 1/4"	
10	5177826	1	SPRING, control tube	
11	5175279	1	LINK, governor to control tube lever	
12	5175996	1	PIN, control link	
	904001	1	PIN, cotter, 3/32" x 1/2"	
13	5150941	1	WASHER, control link retaining	
14	040403	1	CLIP, control link retaining	



GOVERNOR

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5183772	1	GOVERNOR ASSEMBLY (See page 53 for repair parts)	
2	082936	3	CAPSCREW, 7/16"NC x 4-1/2"	
3	041916	2	CAPSCREW, 7/16"NC x 2"	
4	5150568	5	WASHER, plain (copper)	
5	045295	2	CAPSCREW, 5/16"NC x 1"	
	904205	2	LOCKWASHER, 5/16"	
	910335	2	WASHER, plain, SAE std., 5/16"	
6	5175836	1	GASKET, governor to timing gear housing	5183332
7	5176680	1	GASKET, governor to cylinder head	5183332 5193466
8	5151519	1	LEVER, speed control	
	913021	1	CAPSCREW, 1/4"NC x 7/8"	
	904204	1	LOCKWASHER, 1/4"	
	910173	1	KEY, #2 woodruff, 3/32" x 1/2"	
9	5177725	1	LEVER, speed control booster	
	905657	1	CAPSCREW, 1/4"NC x 1"	
	904204	1	LOCKWASHER, 1/4"	
	910173	1	KEY, #2 woodruff, 3/32" x 1/2"	
10	5177723	1	BRACKET, booster spring	
11	036034	1	CAPSCREW, 3/8 NF x 1"	
	904206	1	LOCKWASHER, 3/8"	
	911115	1	WASHER, plain, SAE std., 3/8"	
	911041	1	NUT, 3/8"NF	
12	5177724	1	SPRING, speed control booster	
13	5177726	1	BOLT, eye, booster spring, front	
	911048	2	NUT, jam, 3/8"NF	
14	5177727	1	BOLT, eye, booster spring, rear	
	911325	1	NUT, jam, 1/4"NF	
			NOTE: Items 15 thru 18 were used only on engines prior to serial No. 6B-955.	
15	5177735	1	CONNECTOR, governor to cylinder head	
16	045295	2	CAPSCREW, 5/16"NC x 1"	
	904205	2	LOCKWASHER, 5/16"	
	910335	2	WASHER, plain, SAE std., 5/16"	
17	5177734	1	HOSE, governor connector (1-3/8" I.D. x 3/4" long)	
18	5177883	1	CLAMP, hose, 1-3/4" diam.	

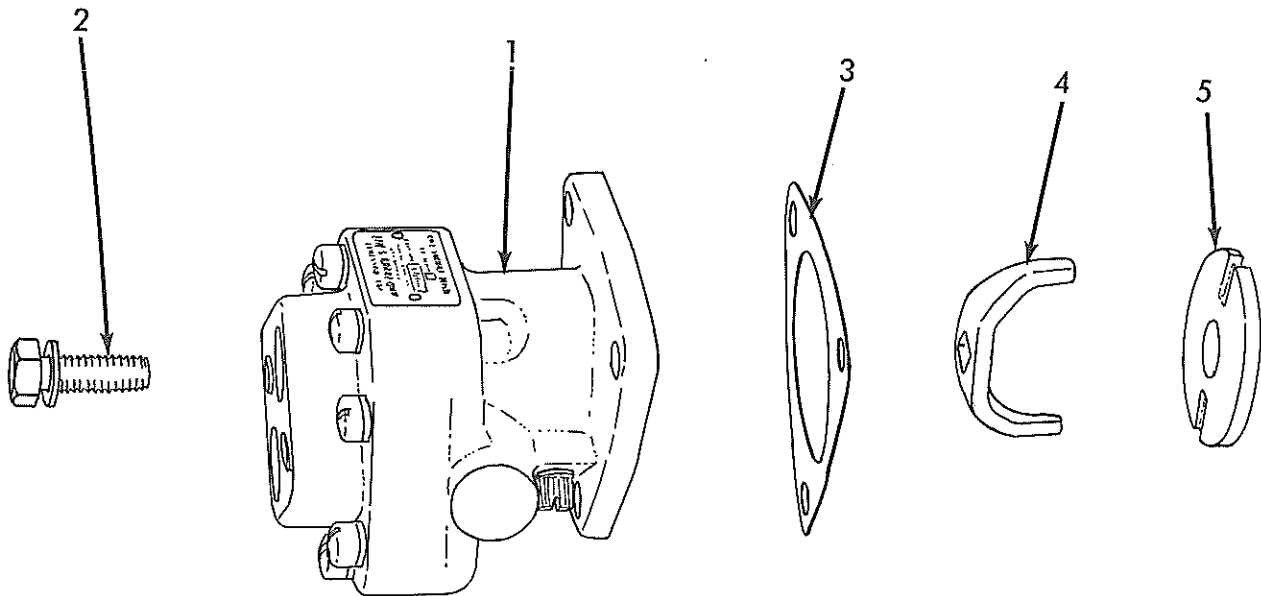


* Engines prior to serial No. 6B-955
 ** Engines serial No. 6B-955 and up

ITEM	PART NUMBER	QUANTITY	* **	DESCRIPTION	KIT NUMBER
1	5179224	1	1	SUPPORT AND WEIGHT ASSEMBLY (Consists of items 2 thru 14)	
	914793	2	2	CAPSCREW, flat-hd., 1/4"NC x 3/4"	
2	5179221	1	1	SUPPORT, drive shaft	
3	5179219	1	1	SHAFT, drive	
4	206494	1	1	BEARING, ball, drive shaft, front	
5	067916	1	1	BEARING, ball, drive shaft, rear	
6	5179222	1	1	RING, retaining, drive shaft rear bearing	
7	5179220	1	1	GEAR, drive	
	905123	1	1	KEY, #9 woodruff, 3/16" x 3/4"	
8	074175	1	1	NUT, drive shaft (self-locking, 3/4"NF)	
9	5175990	1	1	SPACER, weight carrier (Engines prior to #6B-3674)	
10	5185606	1	1	CARRIER, weight	
11	5174455	2	2	WEIGHT ASSEMBLY (Includes item 12)	
12	074176	4	4	BEARING, needle, governor weight	
13	5185154	2	2	SHAFT, governor weight (When making first replacement on engines prior to #6B-3674 also order 2 WASHERS 5151487 and 2 RINGS 5178581)	
	904001	4	4	PIN, cotter, 3/32" x 1/2" (Engines prior to #6B-3674)	
13A	5178581	4	4	RING, snap, shaft retaining (Engines #6B-3674 and up)	
14	5151487	8	8	WASHER, thrust, governor weight (4 used prior to engine #6B-3674)	
15	5175836	1	1	GASKET, drive shaft support	5183332
16	074697	1	1	BEARING, riser thrust	
17	5175670	1	1	RISER	
18	5176850	1	-	HOUSING ASSEMBLY, control (Includes items 20 and 21)	
	910004	1	-	PLUG, expansion, 1" diam.	
19	5182083	-	1	HOUSING ASSEMBLY, control (Includes items 20, 22 thru 27, and 1 PLUG 910004)	
	910004	-	1	PLUG, expansion, 1" diam.	
	916881	-	1	SETSCREW, socket-hd., cup-pt., 1/4"NF x 3/8" (Started with engine #6B-)	
20	5150942	2	2	PIN, dowel, control housing top cover	
21	5176579	2	-	BUSHING, operating shaft	
22	075790	-	2	BEARING, needle, operating shaft	
23	5176099	1	1	FORK ASSEMBLY, operating shaft (Includes item 25)	
	913636	1	1	NUT, 5/16"NF	
	904205	1	1	LOCKWASHER, 5/16"	
24	5159714	1	1	WASHER, plain	
25	5176098	2	2	PIN, operating shaft fork	
26	5177833	1	1	WASHER, thrust, operating shaft fork	
27	5175721	1	1	SHAFT ASSEMBLY, operating (Includes item 28)	
28	5193078	1	1	LEVER ASSEMBLY, operating shaft (Includes PIN)	
29	5175692	1	1	COVER, side, control housing	
30	034964	4	4	CAPSCREW, 1/4"NC x 3/4"	
	904204	4	4	LOCKWASHER, 1/4"	
31	5175693	1	1	GASKET, side cover	5183332
32	5183762	-	1	TUBE, connecting, governor to head	
33	5183763	-	1	RING, sealing, connecting tube	
34	5176028	1	-	LEVER ASSEMBLY, differential (Includes 2 PINS)	
35	5183775	-	1	LEVER ASSEMBLY, differential (Includes 2 PINS)	
36	5150946	1	1	WASHER, retaining, differential lever	
37	074228	1	1	CLIP, retaining, differential lever	

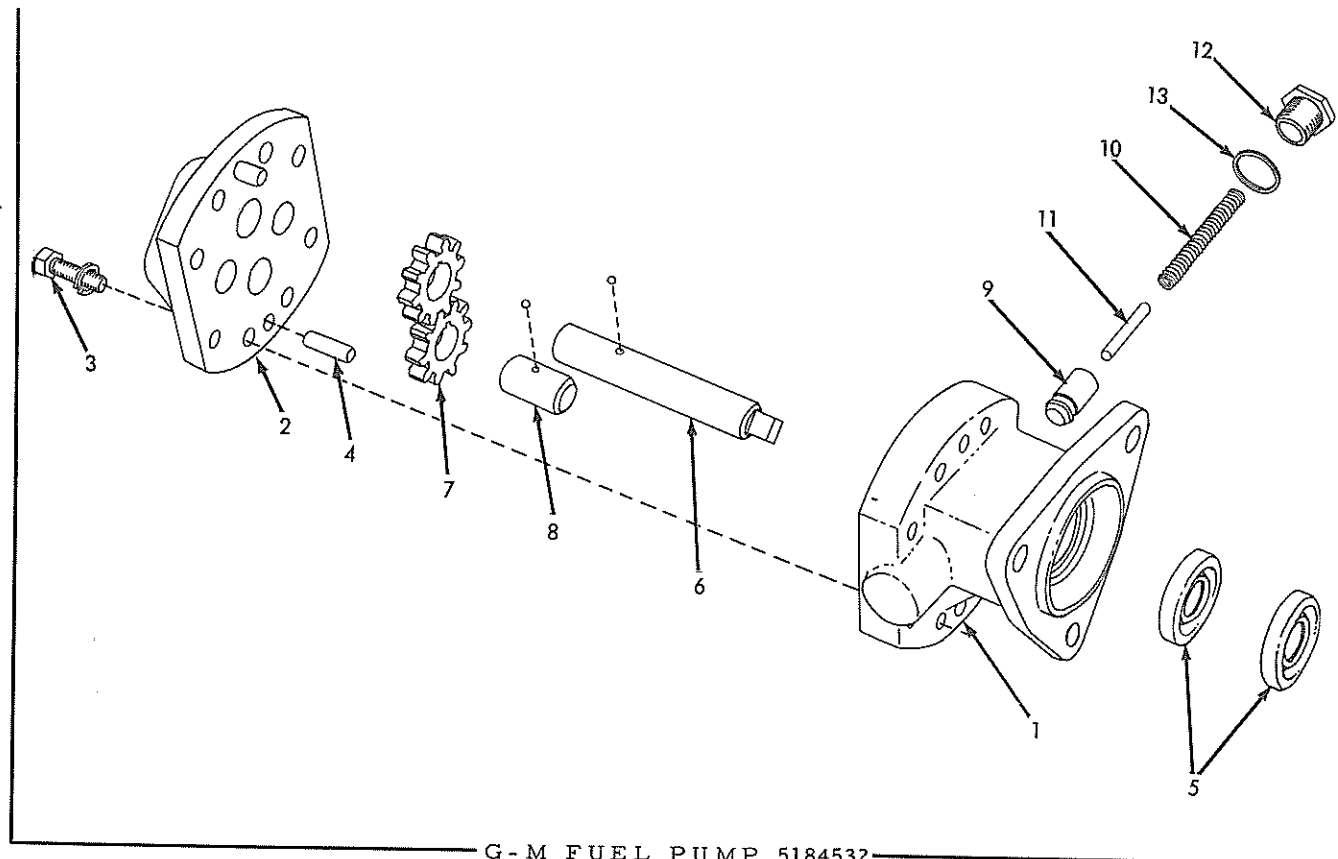
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ITEM	NUMBER	*	**	DESCRIPTION	KIT NUMBER
38	5177083	1	-	SCREW ASSEMBLY, buffer (Includes 1 SPRING and 1 NUT 911048)	
	5183773	-	1	SCREW ASSEMBLY, buffer (Includes SPRING)	
	911048	1	1	NUT, jam, 3/8"NF	
39	5193077	1	-	COVER ASSEMBLY, control housing, top (Includes item 42)	
40	5193236	-	1	COVER ASSEMBLY, control housing, top (Includes item 42)	
41	054304	4	4	CAPSCREW, 1/4 NC x 1-1/4"	
	904204	4	4	LOCKWASHER, 1/4"	
	911114	4	4	WASHER, plain, SAE std., 1/4"	
42	043021	2	2	BEARING, needle, fuel shut-off lever shaft	
43	5175720	1	-	GASKET, top cover	
44	5183746	-	1	GASKET, top cover	5183332
45	5175970	1	-	PLATE, stop, fuel shut-off lever	
	908295	2	-	CAPSCREW, 1/4"NC x 1/2"	
46	5183767	-	1	PLATE, stop, fuel shut-off lever	
47	5183743	-	2	BOLT, retaining	
	904205	-	2	LOCKWASHER, 5/16"	
48	5183742	-	1	SPACER, stop plate	
49	5175967	1	-	SHAFT ASSEMBLY, shut-off lever (Includes 1 LEVER and 1 PIN)	
50	5183769	-	1	SHAFT ASSEMBLY, shut-off lever (Includes 1 LEVER and 1 PIN)	
	914465	-	1	FITTING, lubricating, straight, 1/8"	
51	5176557	1	1	SEAL, shut-off lever shaft	5183332
52	5176667	1	1	WASHER, plain, shut-off lever shaft	
53	5174429	1	1	RING, shaft retaining	
54	5151519	1	1	LEVER, fuel shut-off	
	913021	1	1	CAPSCREW, 1/4"NC x 7/8"	
	904204	1	1	LOCKWASHER, 1/4"	
55	5175450	1	1	HOUSING, variable speed control	
	901652	1	1	PLUG, pipe, 1/4"NPT	
	913021	5	5	CAPSCREW, 1/4"NC x 7/8"	
	904204	5	5	LOCKWASHER, 1/4"	
56	911114	5	5	WASHER, plain, SAE std., 1/4"	
	5175710	1	1	GASKET, variable speed control housing	5183332
57	043021	2	2	BEARING, needle, control lever shaft	
58	5177722	1	1	SHAFT, speed control lever	
59	5153007	2	2	PACKING, speed control lever shaft	
60	5152932	2	2	WASHER, speed control lever shaft packing	
61	5176629	1	1	LEVER, speed control	
	910173	1	1	KEY, #2 woodruff, 3/32" x 1/2"	
	915476	1	1	SETSCREW, socket-hd., dog-pt., 5/16"NF x 1/4"	
62	5179613	1	1	BOLT, idling speed control	
	911325	1	1	NUT, jam, 1/4"NC	
63	5187215	1	1	SPRING, variable speed control	
64	5152962	6	6	SHIM, variable speed control (.010" thick. Use as req'd)	
	5153904	2	2	SHIM, variable speed control (.078" thick. Use as req'd)	
65	5152941	1	1	RETAINER, speed control spring	
66	5174430	3	3	STOP, spring retainer (Use as required to limit high speed)	
67	5175665	1	1	SLEEVE, speed control spring retainer	
68	5175666	1	1	NUT, stop retaining	
69	067480	-	1	CAPSCREW, 1/2"NF x 3/4"	
70	5176774	-	1	GASKET	



FUEL PUMP AND DRIVE

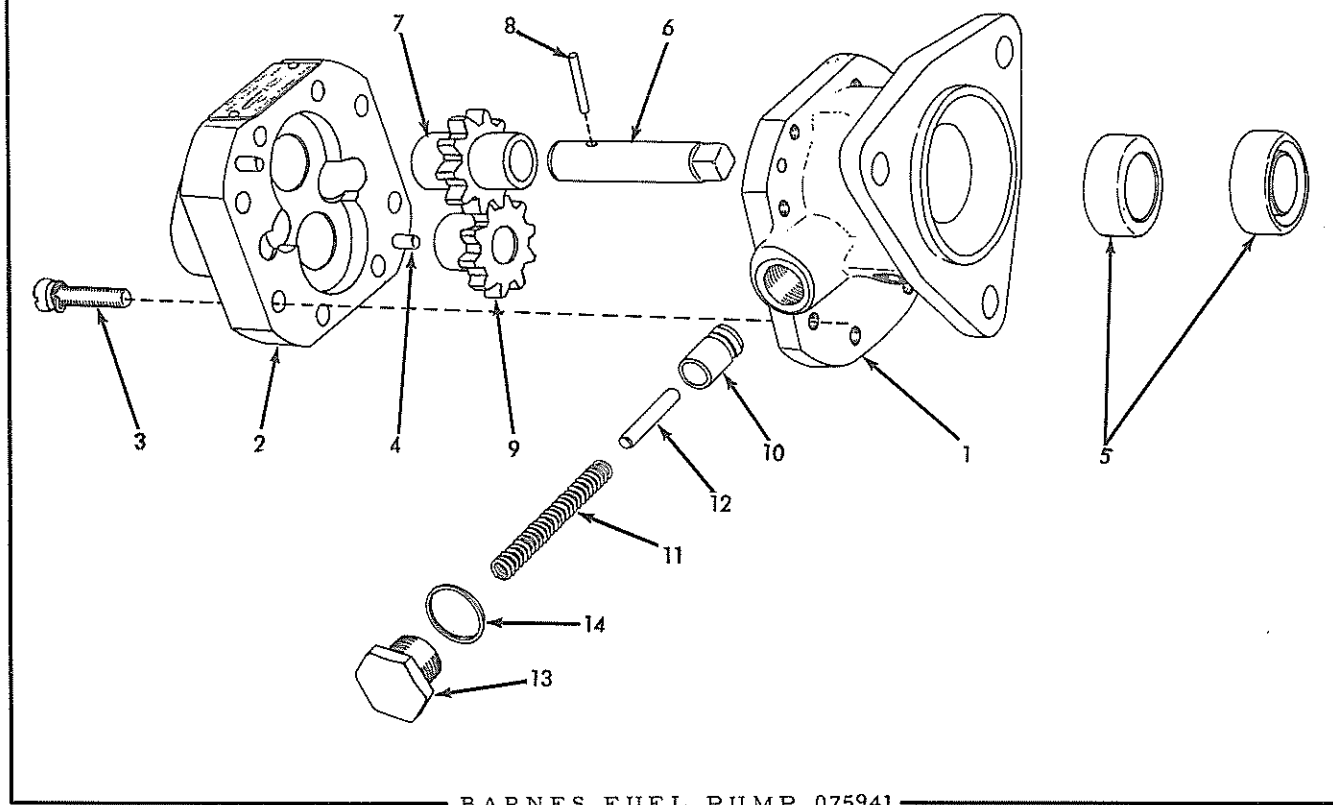
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5184532	1	PUMP ASSEMBLY, fuel (GENERAL MOTORS. See page 56 for repair parts)(Original equipment. Order PUMP ASSEMBLY 075941)	
	075941	1	PUMP ASSEMBLY, fuel (BARNES. See page 57 for repair parts) (Used as replacement for PUMP ASSEMBLY 5184532)	
2	5171159	3	BOLT ASSEMBLY (Includes copper WASHER)	
3	5150193	1	GASKET, pump to front cover	5183332
4	5150199	1	FORK, coupling	
5	5154401	1	DISC, coupling	



G - M FUEL PUMP 5184532

USAGE: See page 55 for listing of complete Pump Assembly.

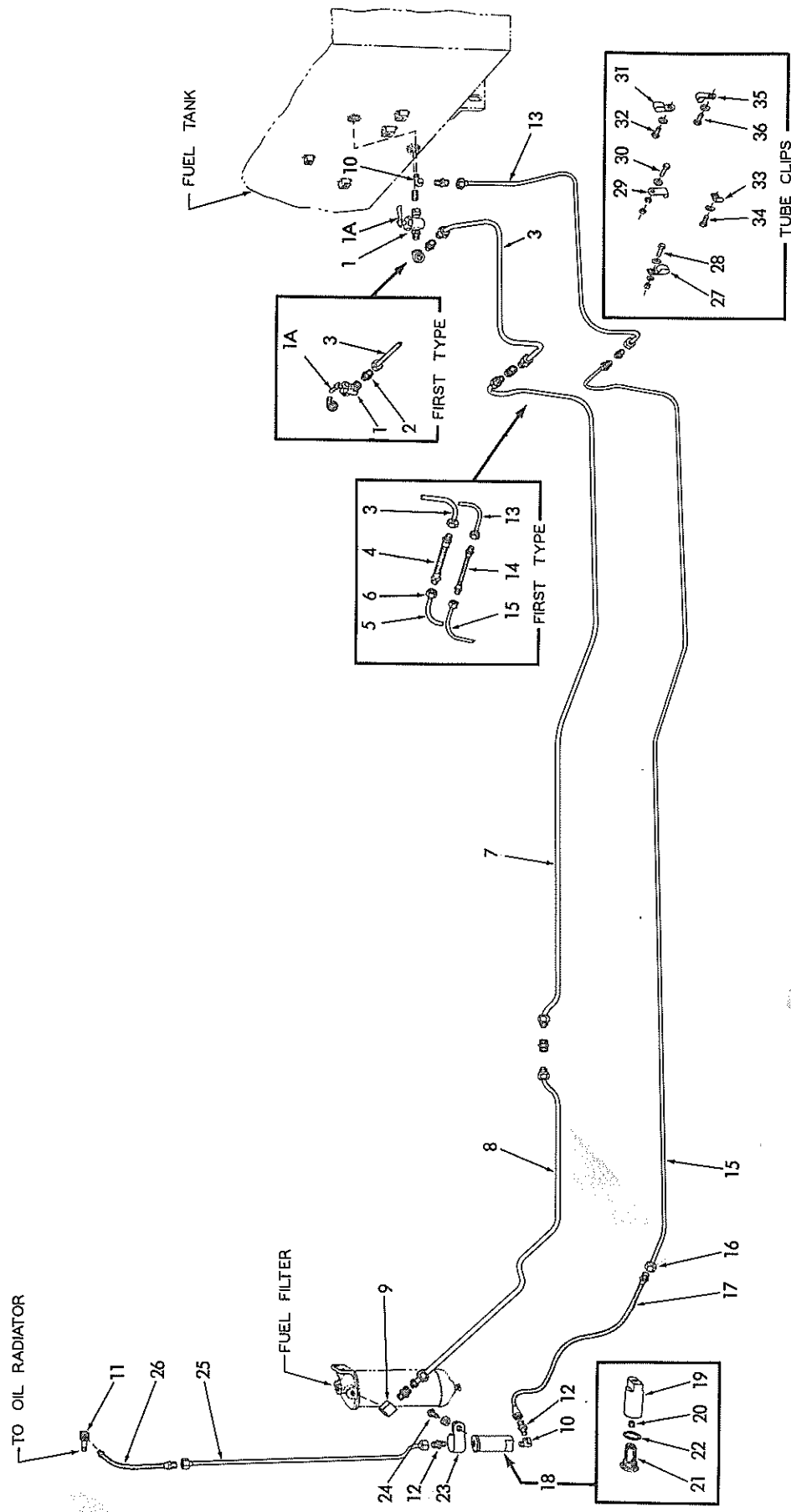
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	-----	1	BODY (Not serviced. Order complete Pump Assembly)	
2	-----	1	COVER, body (Not serviced. Order complete Pump Assembly)	
3	034964	8	CAPSCREW, 1/4" NC x 3/4"	
	904204	8	LOCKWASHER, 1/4"	
4	074179	2	PIN, dowel, body cover	
5	5230007	2	SEAL, oil, drive shaft	
6	5178700	1	SHAFT, drive	
7	5174975	2	GEAR, pumping	
	905356	2	BALL, steel, 1/8" diam.	
8	5174970	1	SHAFT, driven	
9	5174973	1	VALVE, pressure relief	
10	5184530	1	SPRING, pressure relief valve	
11	2225353	1	PIN, guide, relief valve spring	
12	5174971	1	SCREW, pressure relief valve	
13	5161003	1	GASKET, pressure relief valve screw	



BARNES FUEL PUMP 075941

USAGE: See page 55 for listing of complete Pump Assembly.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	-----	1	STATOR (Not serviced. Order complete PUMP ASSEMBLY)	
2	-----	1	HOUSING (Not serviced. Order complete PUMP ASSEMBLY)	
	914590	2	PLUG, expansion, 11/16" diam.	
3	5192813	8	BOLT ASSEMBLY (Includes LOCKWASHER)	
4	2225347	2	PIN, dowel, stator to housing (3/16" x 1")	
5	5192505	2	SEAL, pump shaft	
6	5192504	1	SHAFT, driving gear	
7	5192506	1	GEAR, driving	
8	5192786	1	PIN, shear (1/8" x 13/16")	
9	5192508	1	GEAR, driven	
10	2225351	1	PLUNGER, pressure relief	
11	076259	1	SPRING, pressure relief plunger	
12	2225353	1	PIN, guiding, pressure relief spring (5/32" x 1")	
13	2225354	1	PLUG, pressure relief spring	
14	2225355	1	GASKET, pressure relief spring plug	



* Tractors prior to No 4743 and tractors No. 4744, 4746, 4749, 4751, 4754, 4756, 4759, 4760, 4762 thru 4765, 4767, 4768, 4769, 4773, 4774, 4776, 4778, 4780 thru 4783, 4785, 4788, 4790 thru 4795, 4798 and 4800 thru 4803.

** Tractors No. 4743 and up except tractors No. 4744, 4746, 4749, 4751, 4754, 4756, 4759, 4760, 4762 thru 4765, 4767, 4768, 4769, 4773, 4774, 4776, 4778, 4780 thru 4783, 4785, 4788, 4790 thru 4795, 4798 and 4800 thru 4803.

ITEM	PART NUMBER	QUANTITY * **	DESCRIPTION	KIT NUMBER
1	064322	1 1	COCK, fuel shut-off (3/8"NPT male and female)(Includes item 1A)	
	901723	1 -	ELBOW, street, 90°, 3/8"NPT	
	901678	- 1	ELBOW, pipe, 90°, 3/8"NPT	
	901489	- 1	NIPPLE, pipe, 3/8"NPT x 1"	
1A	082189	1 1	HANDLE, fuel shut-off cock	
2	055247	1 -	CONNECTOR, fuel supply tube (3/8"NPT and 3/4"-20EF male ends)	
3	064321	1 -	TUBE ASSEMBLY, fuel supply, rear section (Includes NUTS)	
	076716	- 1	TUBE, fuel supply, rear section (Not for Model HD20G tractors serial No. 6019 and up)	
	082212	- 1	TUBE, fuel supply, rear section (Started with Model HD20G tractor serial No. 6019)	
	915378	- 1	CONNECTOR, Sealastic, 1/2" tube, 3/8"NPT male	
	915376	- 1	NUT, Sealastic fitting, 1/2" tube	
	915377	- 1	RING, Sealastic, 1/2" tube (Includes FERRULE)	
4	055238	1 -	HOSE, fuel supply, rear (6" long)	
5	073964	1 -	Ø TUBE, fuel supply, center section	
6	055243	1 -	NUT (3/4"EF)	
7	076718	- 1	Ø TUBE, fuel supply, center section (Tractors prior to #5340)	
	079196	- 1	Ø TUBE, fuel supply, center section (Tractors #5340 and up)	
	915379	- 1	UNION, Sealastic, 1/2" tube	
	915376	- 2	NUT, Sealastic, 1/2" tube	
	915377	- 2	RING, Sealastic, 1/2" tube (Includes FERRULE)	
8	073062	1 1	Ø TUBE, fuel supply, front (Tractors prior to #5340)	
	079195	1 1	Ø TUBE, fuel supply, front (Tractors #5340 and up)	
	915378	1 1	CONNECTOR, Sealastic, 1/2" tube, 3/8"NPT male	
	915379	1 1	UNION, Sealastic, 1/2" tube	
	915376	3 3	NUT, Sealastic, 1/2" tube	
	915377	3 3	RING, Sealastic, 1/2" tube (Includes FERRULE)	
9	073068	1 1	Ø ELBOW, fuel supply tube (90°, 1/4"NPT male and 3/8"NPT female)	
10	078926	2 2	ELBOW, fuel return tube (90°, 1/4"NPT male and female, short type)	
11	042538	1 1	ELBOW, fuel return tube (90°, 1/4"NPT male and female, long type)	
12	040744	3 2	CONNECTOR, fuel return tubes (1/4"NPT and 5/8"-24EF male ends)	
13	061810	1 -	TUBE ASSEMBLY, fuel return, rear section (Includes NUTS)	
	076725	- 1	TUBE, fuel return, rear section (Not for Model HD20G tractor serial No. 6019 and up)	
	082213	- 1	TUBE, fuel return, rear section (Started with Model HD20G tractor serial No. 6019)	
	915368	- 1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male	
	915366	- 1	NUT, Sealastic, 3/8" tube	
	915367	- 1	RING, Sealastic, 3/8" tube (Includes FERRULE)	

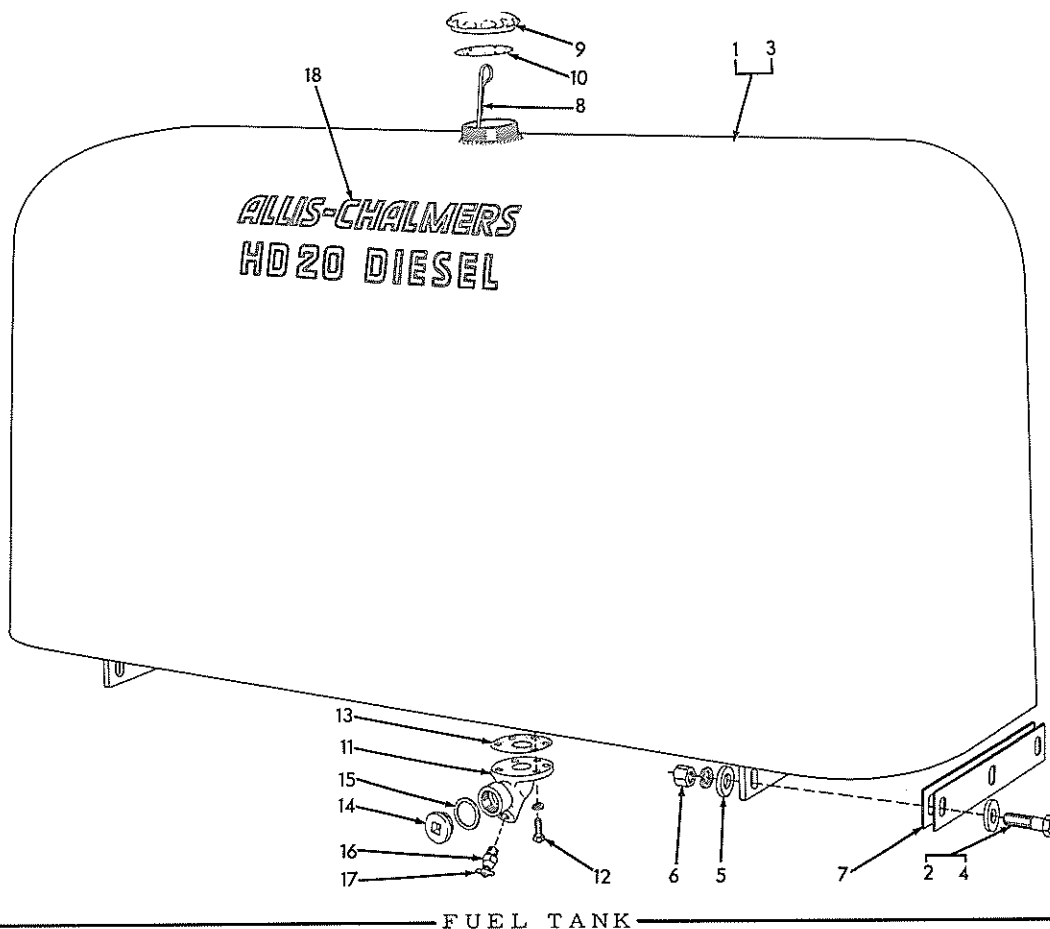
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ITEM NUMBER * ** DESCRIPTION

KIT NUMBER

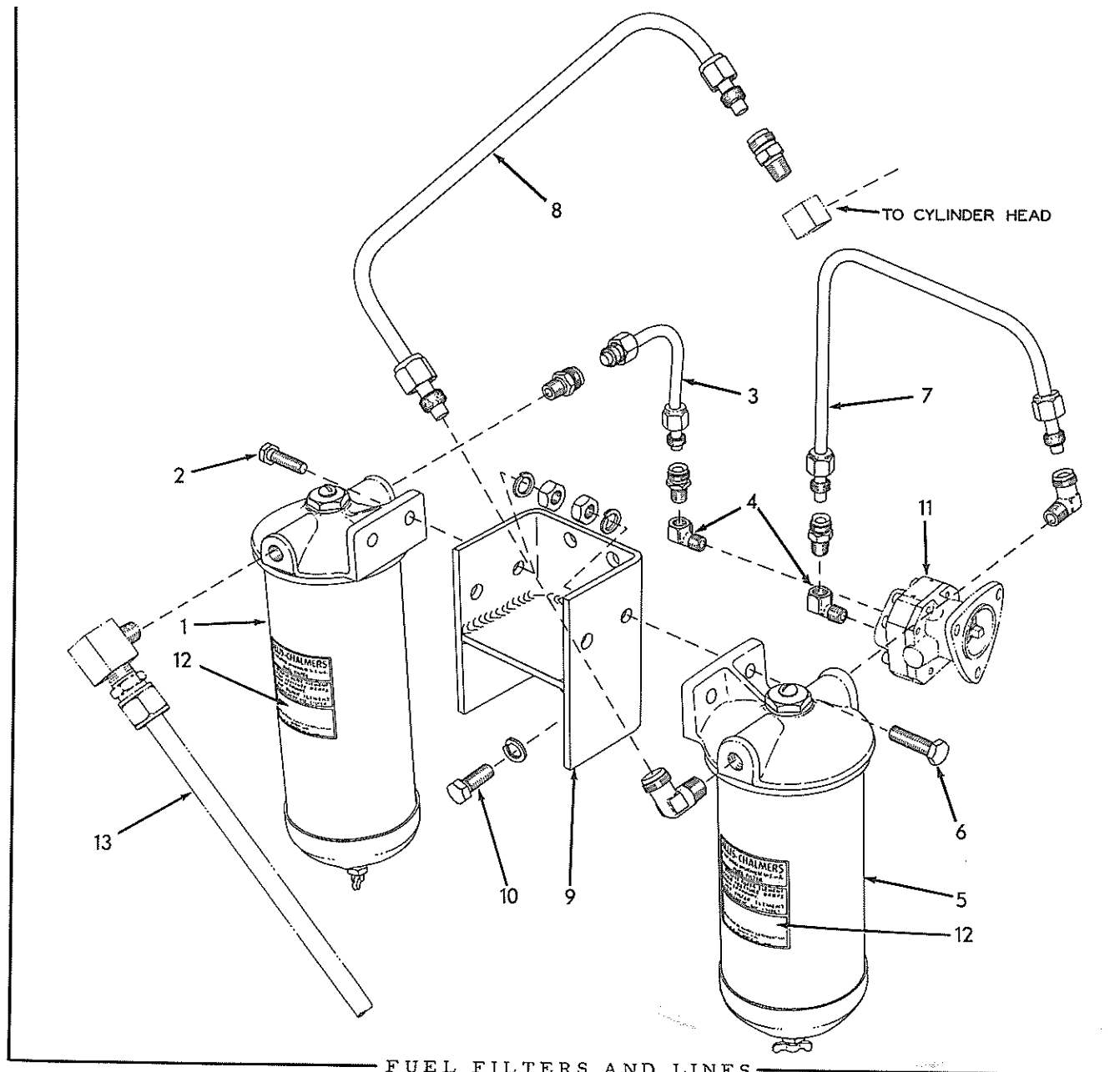
14	052730	1	-	HOSE, fuel return, rear (6" long)
15	052733	1	-	TUBE ASSEMBLY, fuel return, center section (Includes NUTS)
	076729	-	1	TUBE, fuel return, center section
	915386	-	1	UNION, Sealastic, 3/8" tube
	915366	-	2	NUT, Sealastic, 3/8" tube
	915367	-	2	RING, Sealastic, 3/8" tube (Includes FERRULE)
16	040745	-	1	NUT (5/8"EF)
17	059264	1	1	HOSE, fuel return, front (24" long)
18	079044	1	1	FILTER ASSEMBLY, fuel return line (Consists of items 19 thru 22)
19	052701	1	1	BODY, fuel return line filter
20	079043	1	1	PLUG, restricting, fuel return line filter
21	052702	1	1	SCREEN, fuel return line filter
22	042744	1	1	GASKET, fuel return line filter
23	053096	1	1	CLIP, supporting, fuel return line filter
24	070467	1	1	CAPSCREW, 1/2"NF x 1"
	904208	1	1	LOCKWASHER, 1/2"
25	065919	1	1	TUBE ASSEMBLY, fuel return, front section (Includes NUTS)
26	061968	1	1	HOSE, fuel return line (10-1/2" long)
27	055232	5	4	CLIP, fuel tubes (closed type, for one 1/2" diam. tube and one 3/8" diam. tube, 13/32" bolt-hole)
28	036034	1	-	CAPSCREW, 3/8"NF x 1"
	904206	1	-	LOCKWASHER, 3/8"
	911115	1	-	WASHER, plain, SAE std., 3/8"
	911041	1	-	NUT, 3/8"NF
29	041262	-	1	CLIP, rear fuel return tube (closed type, 3/8" diam., 13/32" bolt-hole)
30	036034	-	1	CAPSCREW, 3/8"NF x 1"
	904206	-	1	LOCKWASHER, 3/8"
	911115	-	1	WASHER, plain, SAE std., 3/8"
	911041	-	1	NUT, 3/8"NF
31	055233	5	5	CLIP, fuel tubes (closed type, for one 1/2" diam. tube and one 3/8" diam. tube, 13/32" bolt-hole)(1 less used on tractors #5340 and up)
32	036032	4	4	CAPSCREW, 3/8"NF x 3/4"
	911115	4	4	WASHER, plain, SAE std., 3/8"
33	040796	2	2	CLIP, fuel return tubes (closed type, 3/8" diam., 13/32" bolt-hole)
34	036032	2	2	CAPSCREW, 3/8"NF x 3/4"
	911115	2	2	WASHER, plain, SAE std., 3/8"
35	207091	1	1	CLIP, front fuel return hose (closed type, 1/2" diam., 13/32" bolt-hole)
36	036032	1	1	CAPSCREW, 3/8"NF x 3/4"
	911115	1	1	WASHER, plain, SAE std., 3/8"

♦ Not used when special HEAVY-DUTY FUEL FILTER is installed.



FUEL TANK

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	079900	1	TANK, fuel (For all units except Model HD20G tractors #6019 and up)	
2	035229	6	CAPSCREW, 5/8"NF x 2"	
	904209	6	LOCKWASHER, 5/8"	
	911100	12	WASHER, plain, SAE std., 5/8"	
	911044	6	NUT, 5/8"NF	
3	081902	1	TANK, fuel (For Model HD20G tractors #6019 and up)	
4	035248	6	CAPSCREW, 5/8"NF x 2-1/4"	
5	602448	6	WASHER, plain (1/4" thick)	
6	072366	4	NUT, high, 5/8"NF	
7	079502	4	SHIM, tank mounting (Use as req'd)	
8	053100	1	GAUGE, fuel level	
9	065612	1	CAP, fuel tank	
10	065613	1	GASKET, fuel tank cap	
11	052360	1	ELBOW, fuel tank drain	
12	036034	5	CAPSCREW, 5/8"NF x 1"	
	904206	5	LOCKWASHER, 5/8"	
13	050787	1	GASKET, drain elbow	
14	050594	1	PLUG, drain elbow clean-out	
15	050595	1	GASKET, drain elbow clean-out plug	
16	U-1671	1	COCK, drain (Includes item 17)	
17	209359	1	STEM, drain cock	
18	-----	1	TRANSFER (See PAINTING AND MARKING)	



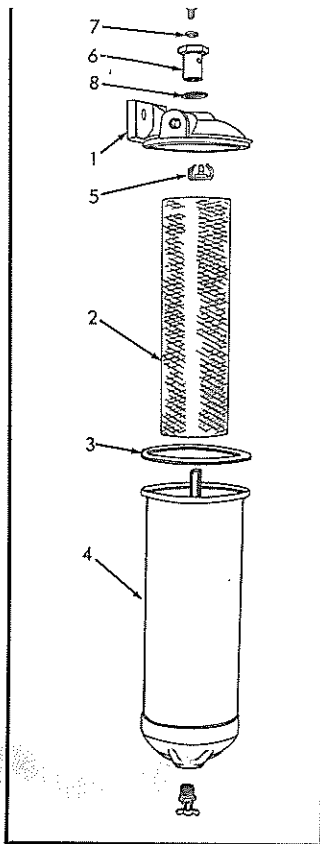
FUEL FILTERS AND LINES

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	074026	1	*FILTER ASSEMBLY, fuel, first stage (See page 64 for repair parts)	
2	012992	2	CAPSCREW, 3/8" NF x 1-1/4"	
	911041	2	NUT, 3/8" NF	
	904206	2	LOCKWASHER, 3/8"	
3	068217	1	*TUBE, first stage filter to pump	
	915368	2	CONNECTOR, Sealastic, 3/8" tube, 1/4" NPT male	
	915366	2	NUT, Sealastic fitting, 3/8" tube	
	915367	2	RING, Sealastic, 3/8" tube (Includes FERRULE)	
4	078926	2	ELBOW, filter tubes (90°, 1/4" NPT male and female)	
5	074022	1	FILTER ASSEMBLY, fuel, second stage (See page 64 for repair parts)	
6	012992	2	CAPSCREW, 3/8" NF x 1-1/4"	
	911041	2	NUT, 3/8" NF	
	904206	2	LOCKWASHER, 3/8"	

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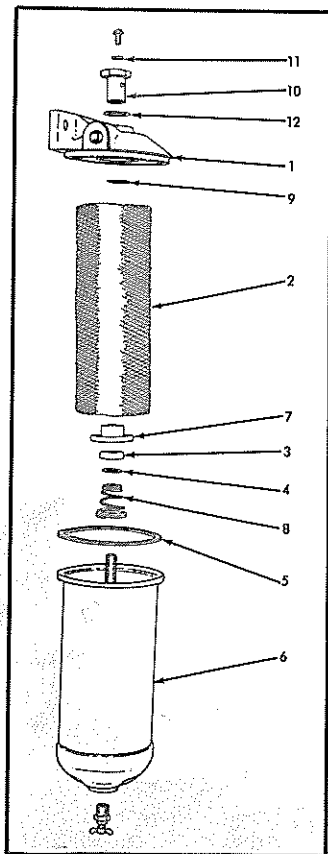
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
7	068216	1	TUBE, second stage filter to pump	
	915369	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male	
	915368	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male	
	915366	2	NUT, Sealastic fitting, 3/8" tube	
	915367	2	RING, Sealastic, 3/8" tube (Includes FERRULE)	
8	078457	1	TUBE, second stage filter to cylinder head	
	915369	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male	
	915368	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male	
	915366	2	NUT, Sealastic fitting, 3/8" tube	
	915367	2	RING, Sealastic, 3/8" tube (Includes FERRULE)	
9	074205	1	BRACKET, filter mounting	
10	035439	4	CAPSCREW, 3/8"NC x 1"	
	904206	4	LOCKWASHER, 3/8"	
11	-----	1	PUMP ASSEMBLY, fuel (See FUEL PUMP)	
12	-----	2	TRANSFER, instruction (See PAINTING AND MARKING)	
13	-----	1	TUBE, supply (See FUEL TANK AND LINES)	

*Not used when special heavy-duty fuel filter is installed.



USAGE: See pages 27 and 62 for listing of complete Filter Assembly.

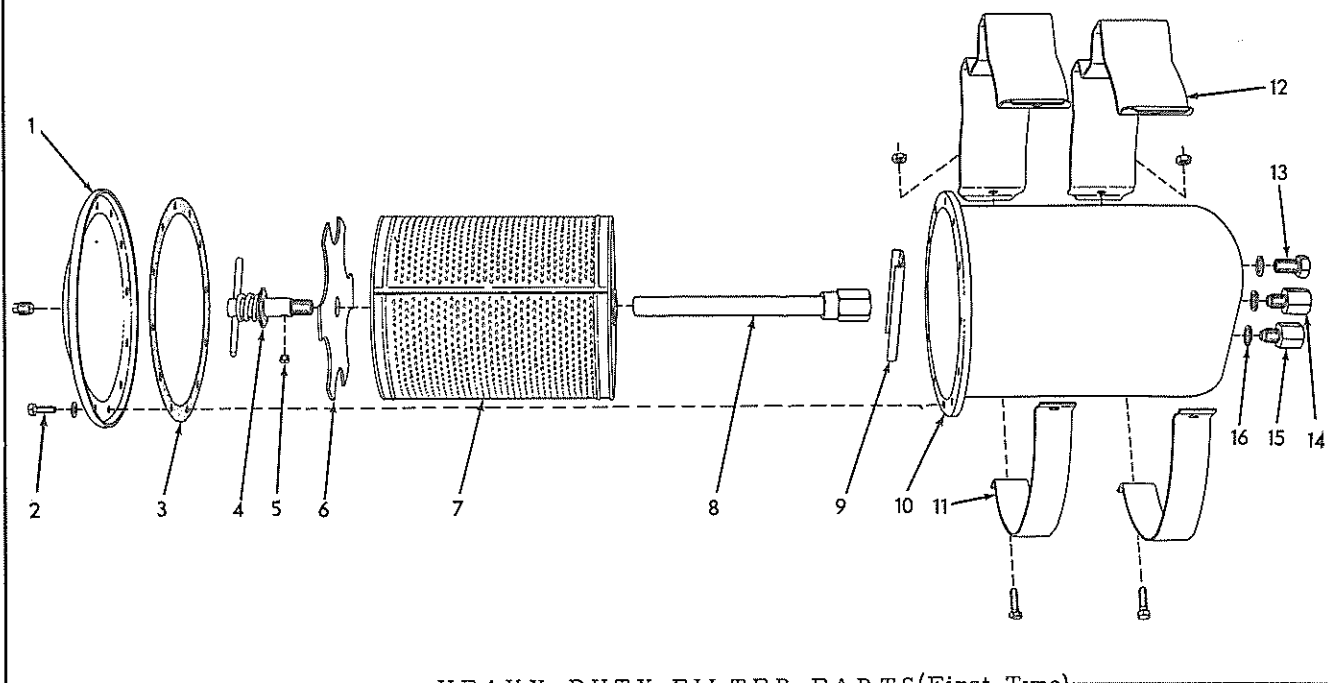
ITEM	PART NUMBER	QTY.	DESCRIPTION
			NOTE: Quantities indicated are for one filter only.
1	065593	1	HEAD, filter
2	069947	1	ELEMENT KIT (Includes item 3)
3	043130	1	GASKET, filter shell
4	069945 915433	1 1	SHELL ASSEMBLY, filter (Includes item 5) COCK, drain, T-handle, 1/4"NPT
5	065581	1	GUIDE, element centering
6	065578 915432	1 1	NUT, shell retaining SCREW, machine, 1/4"NC x 5/16"
7	065577	1	GASKET, bleeding screw
8	065579	1	GASKET, shell retaining nut



FILTER ASSEMBLY 074022

USAGE: See page 62 for listing of complete Filter Assembly.

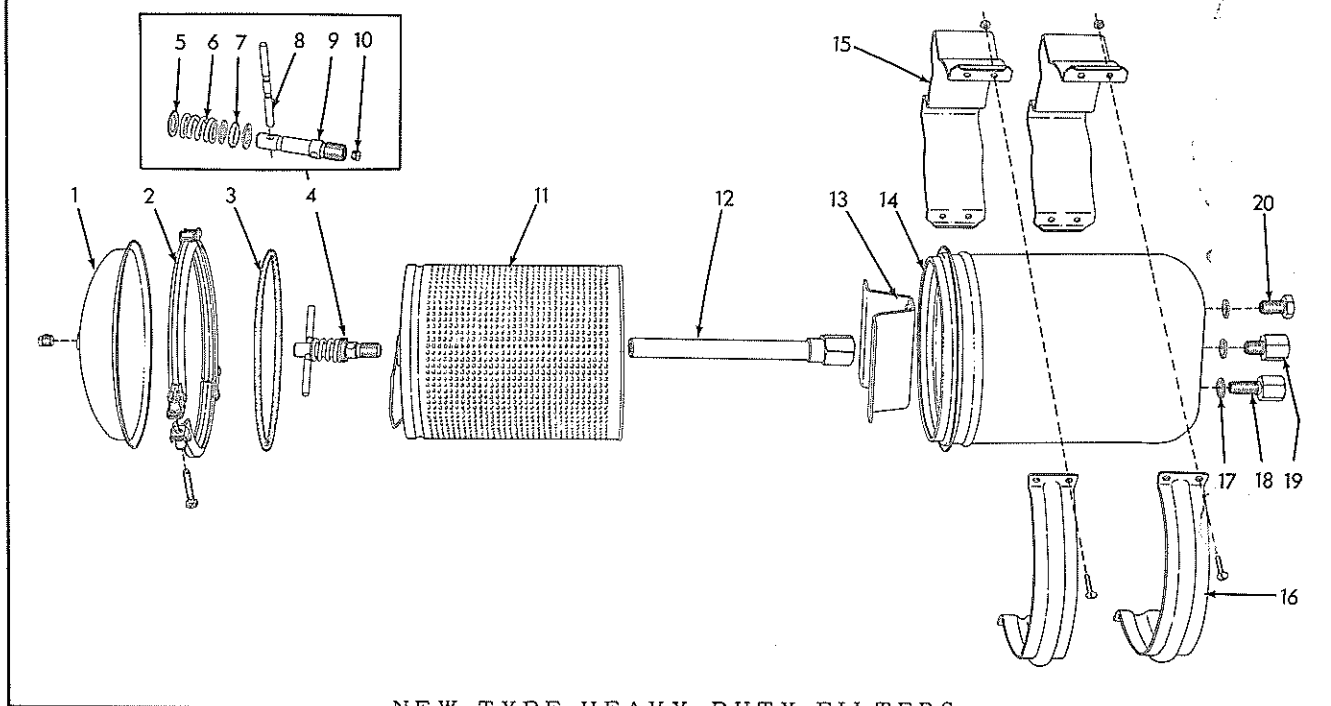
1	065593	1	HEAD, filter
2	069948	1	ELEMENT KIT (Includes items 3 thru 5)
3	-----	1	GASKET, element plate (Serviced only as part of item 2)
4	-----	1	WASHER, element plate gasket (Serviced only as part of item 2)
5	043130	1	GASKET, filter shell
6	069946 915433	1 1	SHELL, filter COCK, drain, T-handle, 1/4"NPT
7	065584	1	PLATE, element seating
8	065585	1	SPRING, element
9	067481	1	GUIDE, element centering
10	065578 915432	1 1	NUT, shell retaining SCREW, machine, 1/4"NC x 5/16"
11	065577	1	GASKET, bleeding screw
12	065579	1	GASKET, shell retaining nut



HEAVY-DUTY FILTER PARTS(First Type)

ITEM	PART NUMBER	QUANTITY		DESCRIPTION	KIT NUMBER
		061814	061817		
				061814 FILTER ASSEMBLY, fuel (See pages 67 and 69)	
				061817 FILTER ASSEMBLY, oil (See pages 30 and 33)	
1	-----	1	1	COVER, housing (Not serviced)	
	901652	1	1	PLUG, pipe, 1/4"NPT	
2	045312	12	12	CAPSCREW, 5/16"NC x 3/4"	
	910335	12	12	WASHER, plain, SAE std., 5/16"	
3	063896	1	1	GASKET, housing cover	
4	063892	1	1	TAKE-UP ASSEMBLY, element (Serviced only as a unit)	
5	063893	-	1	PLUG, orifice	
6	063897	1	1	PLATE, element centering	
7	082508	1	1	ELEMENT KIT, filtering (Includes item 3)	
8	076668	1	1	TUBE ASSEMBLY, outlet (Includes NUT)	
9	063888	1	1	PLATE, reinforcing, housing bottom	
10	-----	1	1	HOUSING ASSEMBLY (Includes bolt RING)(Not serviced)	
11	063899	2	2	BAND, mounting bracket	
	903771	4	4	CAPSCREW, 5/16"NC x 7/8"	
	906652	4	4	NUT, jam, 5/16"NC	
12	063898	2	2	BRACKET, mounting	
13	070590	1	1	CAPSCREW, 5/8"NF x 1-1/8" (drain plug)	
14	063889	1	-	BOLT, hollow	
	080758	-	1	VALVE ASSEMBLY, outlet check (Includes 1 SPRING, 1 RING and 1 CUP. Serviced only as a unit)	
15	063889	1	-	BOLT, hollow	
	063890	-	1	VALVE ASSEMBLY, inlet check (Includes 1 SPRING, 1 RING and 1 CUP. Serviced only as a unit)	
16	063891	3	3	GASKET	

NOTE: Also see page 65B for late type Filter Parts.



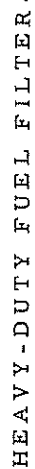
NEW TYPE HEAVY-DUTY FILTERS

082441 FILTER ASSEMBLY, fuel (Supersedes FILTER ASSY. 061814)

082442 FILTER ASSEMBLY, oil (Supersedes FILTER ASSY. 061817)

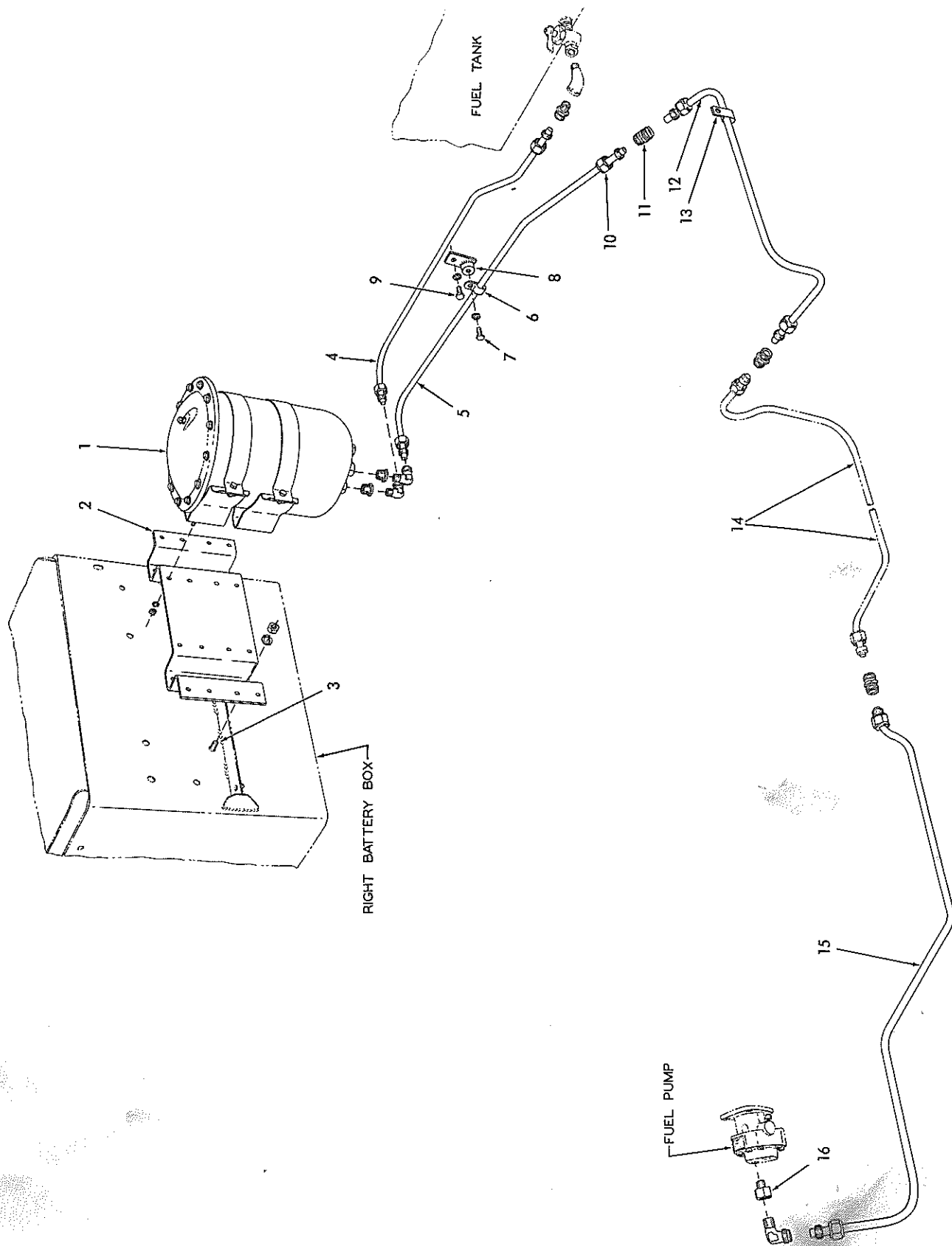
USAGE: Furnished on all Heavy-duty Special Filter Installations starting October, 1954.

ITEM	PART NUMBER	QUANTITY		DESCRIPTION	KIT NUMBER
		082441	082442		
1	082505	1	1	COVER	
	901652	1	1	PLUG, pipe, 1/4"NPT	
2	082486	1	1	RING ASSEMBLY, cover retaining (Includes CAPSCREW indented below)	
	914173	1	1	CAPSCREW, 5/16"NF x 1-3/4"	
3	082449	1	1	GASKET, cover	
4	082492	1	-	HOLD-DOWN ASSEMBLY, filter element (Includes items 5 thru 9)	
	082493	-	1	HOLD-DOWN ASSEMBLY, filter element (Includes items 5 thru 10)	
5	082489	3	3	WASHER, element hold-down	
6	082490	1	1	SPRING, element hold-down	
7	082487	1	1	SEAL, element hold-down	
8	082488	1	1	HANDLE, element hold-down	
9	-----	1	1	STUD, element hold-down (Not serviced separately)	
10	082491	-	1	PLUG, orifice, element hold-down	
11	082508	1	1	ELEMENT KIT, filtering	
12	076668	1	1	TUBE ASSEMBLY, outlet (Includes NUT)	
13	082967	1	1	SUPPORT, filter element	
14	-----	1	1	HOUSING (Not serviced separately)	
15	082444	2	2	BRACKET, mounting	
16	082443	2	2	BAND, mounting bracket	
	900576	8	8	SCREW, machine, 1/4"NC x 3/4"	
	911024	8	8	NUT, 1/4"NC	
17	063891	3	3	GASKET	
18	063890	-	1	VALVE ASSEMBLY, inlet check (Includes 1 SPRING, 1 RING and 1 CUP. Serviced only as a unit)	
	063889	1	-	BOLT, hollow	
19	080758	-	1	VALVE ASSEMBLY, outlet check (Includes 1 SPRING, 1 RING and 1 CUP. Serviced only as a unit)	
	063889	1	-	BOLT, hollow	
20	070590	1	1	CAPSCREW, 5/8"NF x 1-1/8" (drain plug)	



USAGE: Special Equipment for Model HD20H only. Mounts at rear of Cowl on right side. Also see pages 62 and 69 for optional installations.

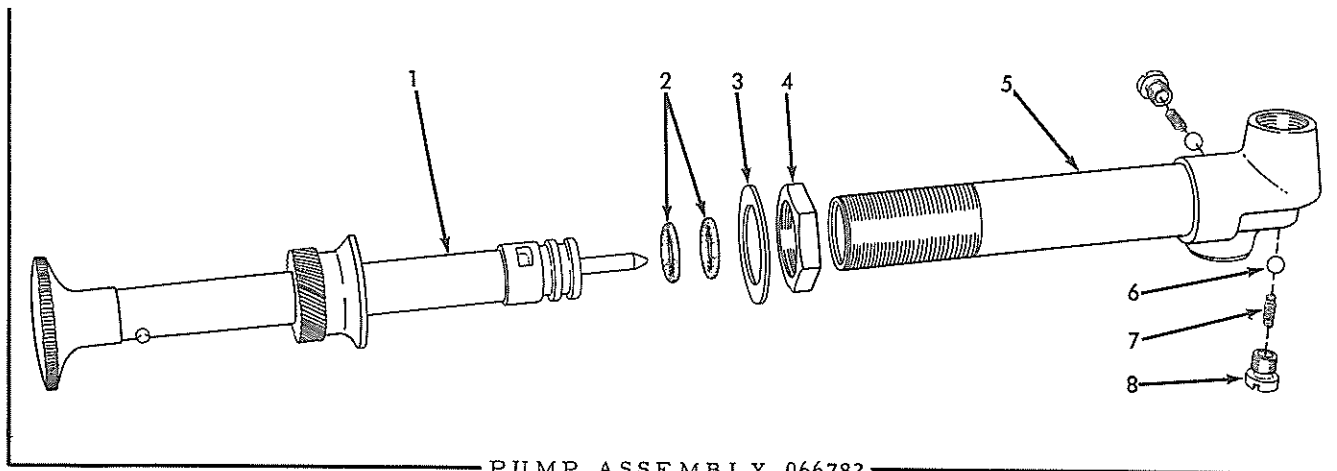
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	061814	1	FILTER ASSEMBLY, fuel (See page 65 for repair parts)	
	911168	8	CAPSCREW, 5/16"NF x 3/4"	
	904205	8	LOCKWASHER, 5/16"	
	913636	8	NUT, 5/16"NF	
2	061910	1	BRACKET, filter mounting (Also mounts Heavy-Duty Oil Filter)	
3	070469	4	CAPSCREW, 1/2"NF x 1-1/4"	
	904208	4	LOCKWASHER, 1/2"	
	911043	4	NUT, 1/2"NF	
4	074661	1	TUBE, filter to fuel tank, front section	
	915380	1	ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male	
	915376	1	NUT, Sealastic fitting, 1/2" tube	
	915377	1	RING, Sealastic fitting, 1/2" tube, Includes FERRULE)	
	904271	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT	
5	074660	1	TUBE, filter to fuel tank, center section	
	915379	1	UNION, Sealastic, 1/2" tube	
	915376	2	NUT, Sealastic fitting, 1/2" tube	
	915377	2	RING, Sealastic, 1/2" tube (Includes FERRULE)	
6	074659	1	TUBE, filter to fuel tank, rear section (Tractors prior to #4804)	
	078972	1	TUBE, filter to fuel tank, rear section (Tractors #4804 and up)	
	915379	1	UNION, Sealastic, 1/2" tube	
	915376	2	NUT, Sealastic fitting, 1/2" tube	
	915377	2	RING, Sealastic fitting, 1/2" tube (Includes FERRULE)	
7	055243	1	NUT, filter tube (3/4"EF)(Not used after #4803)	
8	-----	1	TUBE, tank to filter (See standard FUEL LINES)	
9	074663	1	TUBE, filter to pump, rear section	
	915380	1	ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male	
	915376	1	NUT, Sealastic fitting, 1/2" tube	
	915377	1	RING, Sealastic fitting, 1/2" tube (Includes FERRULE)	
	904271	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT	
10	074662	1	TUBE, connecting, rear and center section	
	915379	1	UNION, Sealastic, 1/2" tube	
	915376	2	NUT, Sealastic fitting, 1/2" tube	
	915377	2	RING, Sealastic, 1/2" tube (Includes FERRULE)	
11	074664	1	TUBE, filter to pump, center section (Used on tractors prior to #5345)	
	079204	1	TUBE, filter to pump, center section (Used on tractors #5345 and up)	
	915379	1	UNION, Sealastic, 1/2" tube	
	915376	2	NUT, Sealastic fitting, 1/2" tube	
	915377	2	RING, Sealastic, 1/2" tube (Includes FERRULE)	
12	074686	1	TUBE, filter to pump, front section (Used on tractors prior to #5345)	
	079205	1	TUBE, filter to pump, front section (Used on tractors #5345 and up)	
	915380	1	ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male	
	915379	1	UNION, Sealastic, 1/2" tube	
	915376	2	NUT, Sealastic fitting, 1/2" tube	
	915377	2	RING, Sealastic, 1/2" tube (Includes FERRULE)	
13	059784	1	ADAPTER, reducing (3/8"NPT to 1/4"NPT)	
14	074669	1	BLOCK, clip supporting	
15	059635	2	CLIP, filter tube supporting (closed type, for two 1/2" tubes, 13/32" diam. bolt hole)	
16	035167	2	CAPSCREW, 3/8"NF x 7/8"	
	904206	2	LOCKWASHER, 3/8"	
	900817	2	WASHER, plain, U.S. std., 3/8"	
	911041	2	NUT, 3/8"NF	



HEAVY-DUTY FUEL FILTER (USED WITH CAB OR BAKER DOZER)

USAGE: Special Equipment for Model HD20H tractors only when equipped with a Cab or with a Baker Hydraulic Dozer.
Also see pages 62 and 67 for optional installations.

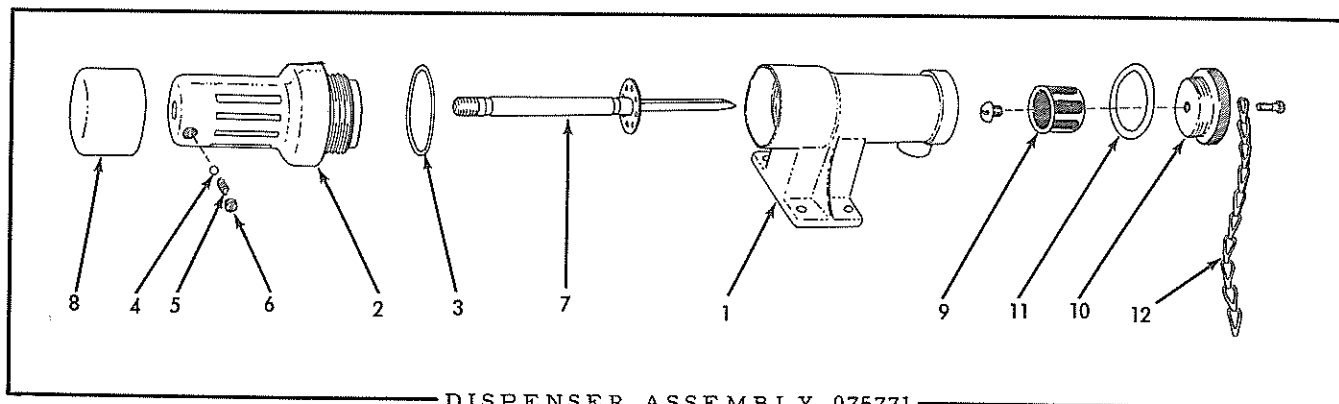
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	061814	1	FILTER ASSEMBLY, fuel oil (See page 65 for repair parts)	
	911168	8	CAPSCREW, 5/16"NF x 7/8"	
	904205	8	LOCKWASHER, 5/16"	
	913636	8	NUT, 5/16"NF	
2	080459	1	BRACKET, filter mounting	
3	070467	4	CAPSCREW, 1/2"NF x 1"	
	904208	4	LOCKWASHER, 1/2"	
	911043	4	NUT, 1/2"	
4	076746	1	TUBE, fuel inlet (Tractors prior to #4827)	
	079000	1	TUBE, fuel inlet (Tractors #4827 and up)	
	904271	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT	
	915380	1	ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male	
	915378	1	CONNECTOR, Sealastic, 1/2" tube, 3/8"NPT male	
	915376	2	NUT, Sealastic fitting, 1/2" tube	
	915377	2	RING, Sealastic fitting, 1/2" tube (Includes FERRULE)	
5	076754	1	TUBE, fuel outlet (Tractors prior to #4827)	
	079001	1	TUBE, fuel outlet (Tractors #4827 and up)	
	904271	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT	
	915380	1	ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male	
	915376	2	NUT, Sealastic fitting, 1/2" tube	
	915377	2	RING, Sealastic fitting, 1/2" tube (Includes FERRULE)	
6	059635	1	CLIP, tube supporting (closed type, for two 1/2" diam. tubes, 13/32" bolt-hole)	
7	035979	1	CAPSCREW, 3/8"NF x 5/8"	
	904206	1	LOCKWASHER, 3/8"	
8	076833	1	SUPPORT, clip	
9	035979	1	CAPSCREW, 3/8"NF x 5/8"	
	904206	1	LOCKWASHER, 3/8"	
10	055243	1	NUT, fuel outlet tube (3/4"EF)(Tractors prior to #4827)	
11	055674	1	UNION, fuel outlet tube connection (3/4"EF male ends)(Tractors prior to #4827)	
	915379	1	UNION, Sealastic, 1/2" tube (Tractors #4827 and up)	
12	-----	1	TUBE ASSEMBLY, fuel supply, rear section (Includes NUTS)(Tractors prior to #4827. See FUEL LINES)	
	078999	1	TUBE, fuel supply, rear section (Tractors #4827 and up)	
	915379	1	UNION, Sealastic fitting, 1/2" tube	
	915376	2	NUT, Sealastic fitting, 1/2" tube	
	915377	2	RING, Sealastic fitting, 1/2" tube (Includes FERRULE)	
13	055232	1	CLIP, tube supporting (closed type, for 1/2" diam. line and 3/8" diam. line, 13/32" bolt-hole)(Tractors #4827 and up)	
14	-----	1	TUBE, fuel supply, center section (See FUEL LINES)	
15	074686	1	TUBE, fuel supply, front section (Tractors prior to #5434)	
	079205	1	TUBE, fuel supply, front section (Tractors #5434 and up)	
	915380	1	ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male	
	915379	1	UNION, Sealastic fitting, 1/2" tube	
	915376	2	NUT, Sealastic fitting, 1/2" tube	
	915377	2	RING, Sealastic fitting, 1/2" tube (Includes FERRULE)	
16	059784	1	ADAPTER, reducing (3/8"NPT to 1/4"NPT)	



PUMP ASSEMBLY 066782

USAGE: See pages 71 and 72 for listing of complete Pump Assembly.

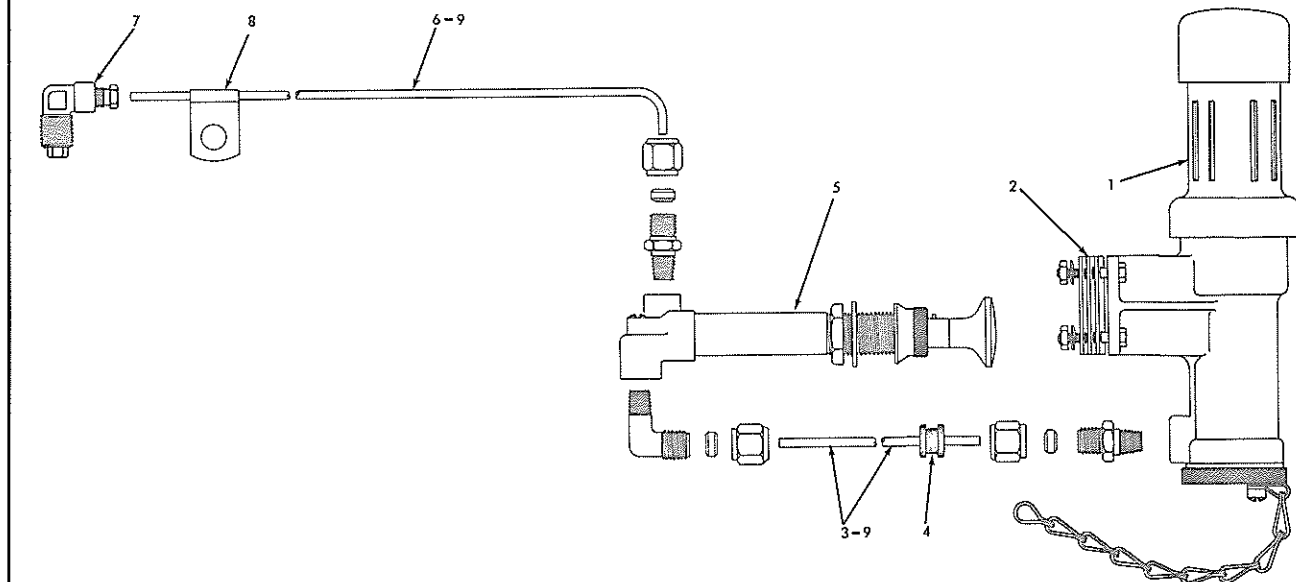
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	066877	1	PISTON ASSEMBLY (Serviced only as a unit)	
2	066878	2	RING, plunger packing (rubber)	
3	066873	1	WASHER, mounting	
4	066872	1	NUT, mounting	
5	-----	1	BARREL ASSEMBLY (Not serviced. Order complete PUMP ASSEMBLY 066782)	
6	066876	2	BALL, check valve (5/32" diam.)	
7	066875	2	SPRING, check valve	
8	066874	2	RETAINER, check valve	



DISPENSER ASSEMBLY 075771

USAGE: See page 71 for listing of complete Dispenser Assembly.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	068878	1	BODY, fuel dispenser	
2	068879	1	CHAMBER, fuel dispenser	
3	069164	1	GASKET, fuel dispenser chamber	
4	905357	1	BALL, steel, 3/16" diam.	
5	066251	1	SPRING, plunger locking ball	
6	066252	1	PLUG, retaining, locking ball spring	
7	066255	1	PLUNGER, fuel dispenser	
8	068881	1	KNOB, fuel dispenser plunger	
9	068875	1	STRAINER, fuel dispenser	
	915432	1	SCREW, machine, rd-hd., 1/4"NC x 5/16"	
10	075770	1	PLUG, fuel dispenser strainer	
11	068876	1	GASKET, fuel dispenser strainer plug	
12	075769	1	CHAIN, strainer plug retaining (Started with tractor #3405)	
	901781	1	SCREW, machine, fil-hd., #10-32NF x 1/2"	

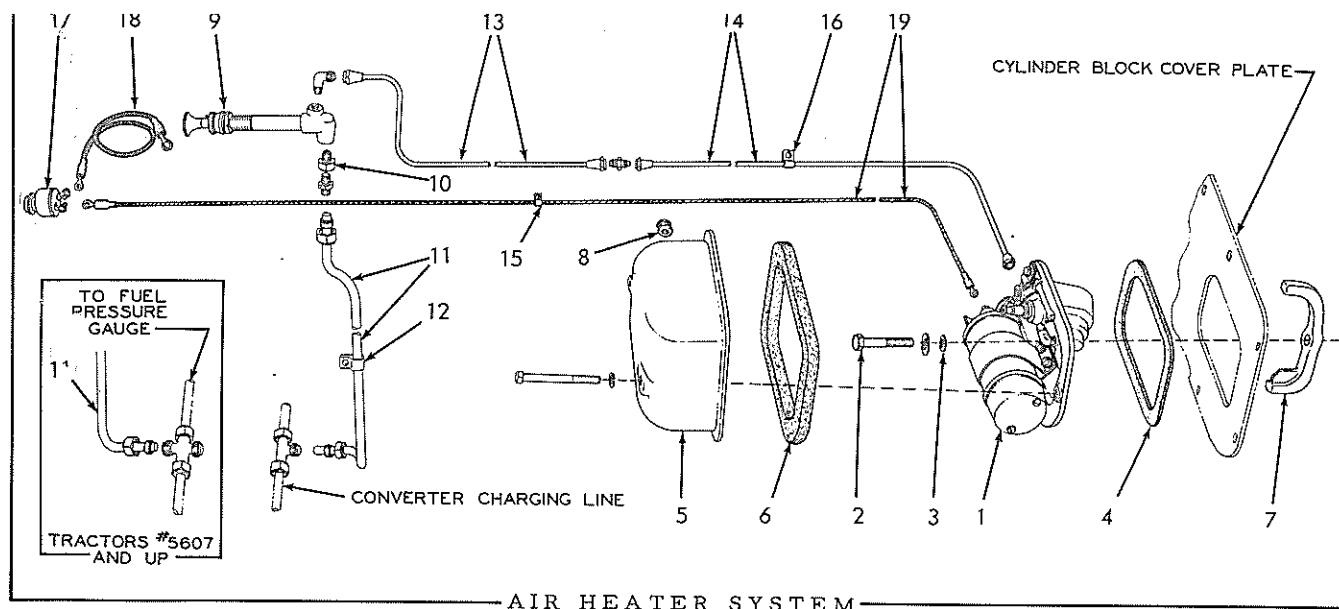


ENGINE PRIMER

USAGE: Standard Equipment except on units ordered with Air Heater
as a substitute.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	075771	1	DISPENSER ASSEMBLY, priming fuel (See page 70 for repair parts)	
	913464	4	SCREW, machine, #10-24NC x 7/8"	
	901310	4	NUT, #10-24NC	
	904203	4	LOCKWASHER, #10	
2	066261	6	GASKET, dispenser mounting	
3	-----	1	TUBE, copper, 1/8" O.D., 23" long (Order item 9)	
	915556	1	CONNECTOR, Sealastic, 1/8" tube, 1/8"NPT male	
	915557	1	ELBOW, Sealastic, 1/8" tube, 1/8"NPT male	
	915488	2	NUT, Sealastic fitting, 1/8" tube	
	915486	2	RING, Sealastic, 1/8" tube (Includes FERRULE)	
4	065946	1	GROMMET, tube protecting (rubber)	
5	066782	1	PUMP ASSEMBLY (See page 70 for repair parts)	
6	-----	1	TUBE, copper, 1/8" O.D., 57" long (Order item 9)	
	915556	1	CONNECTOR, Sealastic, 1/8" tube, 1/8"NPT male	
	915488	1	NUT, Sealastic fitting, 1/8" tube	
	915486	1	RING, Sealastic fitting, 1/8" tube (Includes FERRULE)	
7	066517	1	ELBOW ASSEMBLY, fuel spray (Includes check VALVE, NUT and SLEEVE. Serviced only as a unit)	
8	066260	2	CLIP, tube supporting	
9	066253	1	TUBING, copper, 1/8" O.D., 10 ft. roll (Use as req'd)	

NOTE: See PAINTING AND MARKING for instruction transfer
which is applied to dash.



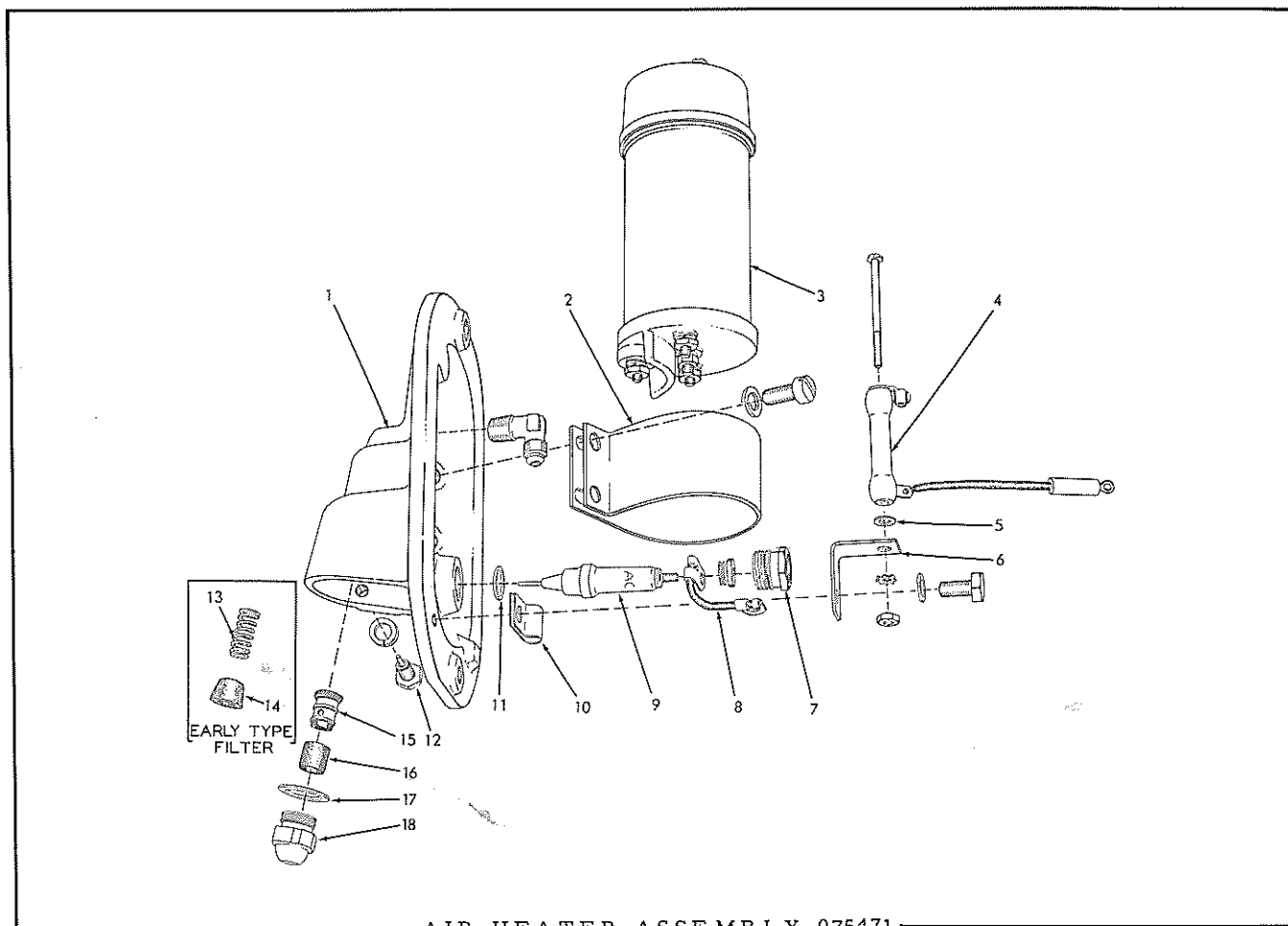
USAGE: Optional Equipment in place of standard Engine Primer.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	075471	1	HEATER ASSEMBLY, engine air (See page 73 for repair parts)	
2	013059	1	CAPSCREW, 3/8"NC x 2"	
	911115	1	WASHER, plain, SAE std., 3/8"	
3	040400	1	GASKET (copper - asbestos)	
4	5150020	1	GASKET, air heater to block	
5	5158071	1	COVER, air heater	
	913189	2	CAPSCREW, 5/16"NC x 2-7/8"	
	904205	2	LOCKWASHER, 5/16"	
6	5154066	1	GASKET, air heater cover (felt)	
7	5183129	1	CLAMP, air heater	
8	023176	1	GROMMET, air heater cover (rubber)	
9	066782	1	PUMP ASSEMBLY (See page 70 for repair parts)	
10	073297	1	ADAPTER, reducing (1/8" x 1/4"NPT)	
11	074629	1	TUBE, fuel supply (Tractors prior to #5607)	
	915368	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male	
	915371	1	TEE, union, Sealastic fitting, 3/8" tube	
	915366	2	NUT, Sealastic fitting, 3/8" tube	
	915367	2	RING, Sealastic, 3/8" tube (Includes FERRULE)	
	080494	1	TUBE, fuel supply (Tractors #5607 and up)	
	915368	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male	
	916914	1	CROSS, Sealastic fitting, 3/8" tube	
	915366	2	NUT, Sealastic fitting, 3/8" tube	
	915367	2	RING, Sealastic, 3/8" tube (Includes FERRULE)	
12	040796	1	CLIP, fuel supply tube (closed type, 3/8" diam., 13/32" bolt-hole) (Used prior to tractor #5607)	
13	052911	1	TUBE ASSEMBLY, pump to heater, rear section (36" long. Includes 2 NUTS 913676)	
	913676	2	NUT, flared, long, 3/16" tube	
	910268	1	ELBOW, flared, 3/16" tube, 1/8"NPT male	
14	040756	1	TUBE ASSEMBLY, pump to heater, front section (78-1/2" long. Includes 2 NUTS 913676)	
	913676	2	NUTS, flared, long, 3/16" tube	
	914475	1	UNION, flared tube, 3/16"	

(Continued)

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
15	U-479	4	CLIP, pump tube and cable (closed type, 3/16" diam., 13/32" bolt-hole)	
16	605822	1	CLIP, pump tube (closed type, 3/16" diam., 13/32" bolt-hole)	
17	031337	1	SWITCH, push-button	
18	050770	1	CABLE, air heater switch to light switch (7" long)	
19	066583	1	CABLE, switch to air heater (111" long)	

NOTE: See PAINTING AND MARKING for instruction transfer which is applied to dash.

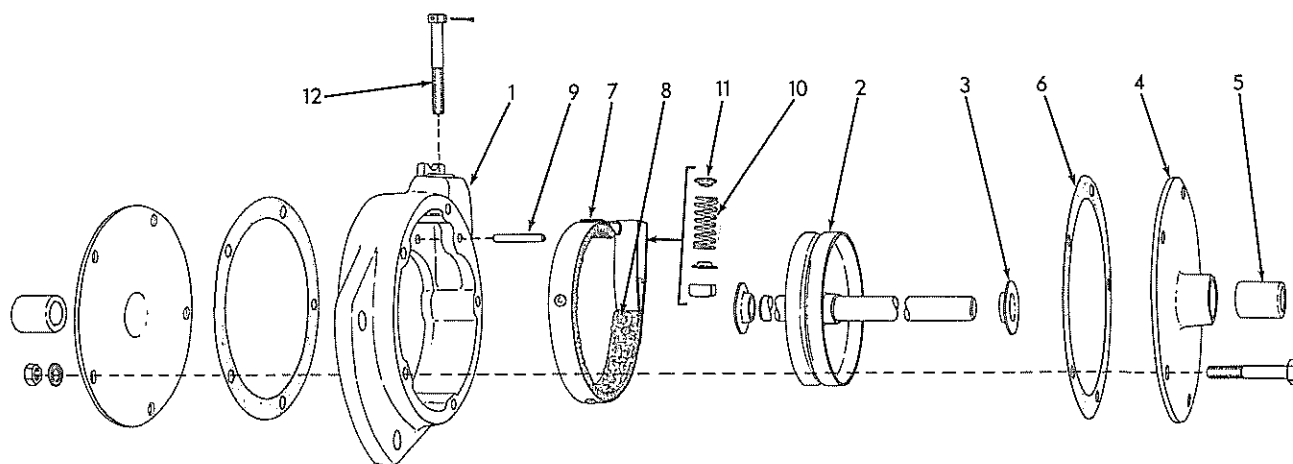


USAGE: See page 72 for listing of complete Heater Assembly.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5153385	1	BODY, air heater	
	910268	1	ELBOW, flared, 3/16" tube, 1/8" NPT male	
2	1879753	1	BRACKET, ignition coil mounting	
	912226	2	SCREW, machine, fil-hd., 1/4" NC x 5/8"	
	904204	2	LOCKWASHER, 1/4"	
3	1115485	1	COIL, ignition (Serviced only as a unit)	
4	5183574	1	RESISTOR	
	915922	1	SCREW, machine, #8-32 x 2-1/4"	
	907154	1	NUT, #8-32	
	915923	1	WASHER, external teeth, #8	

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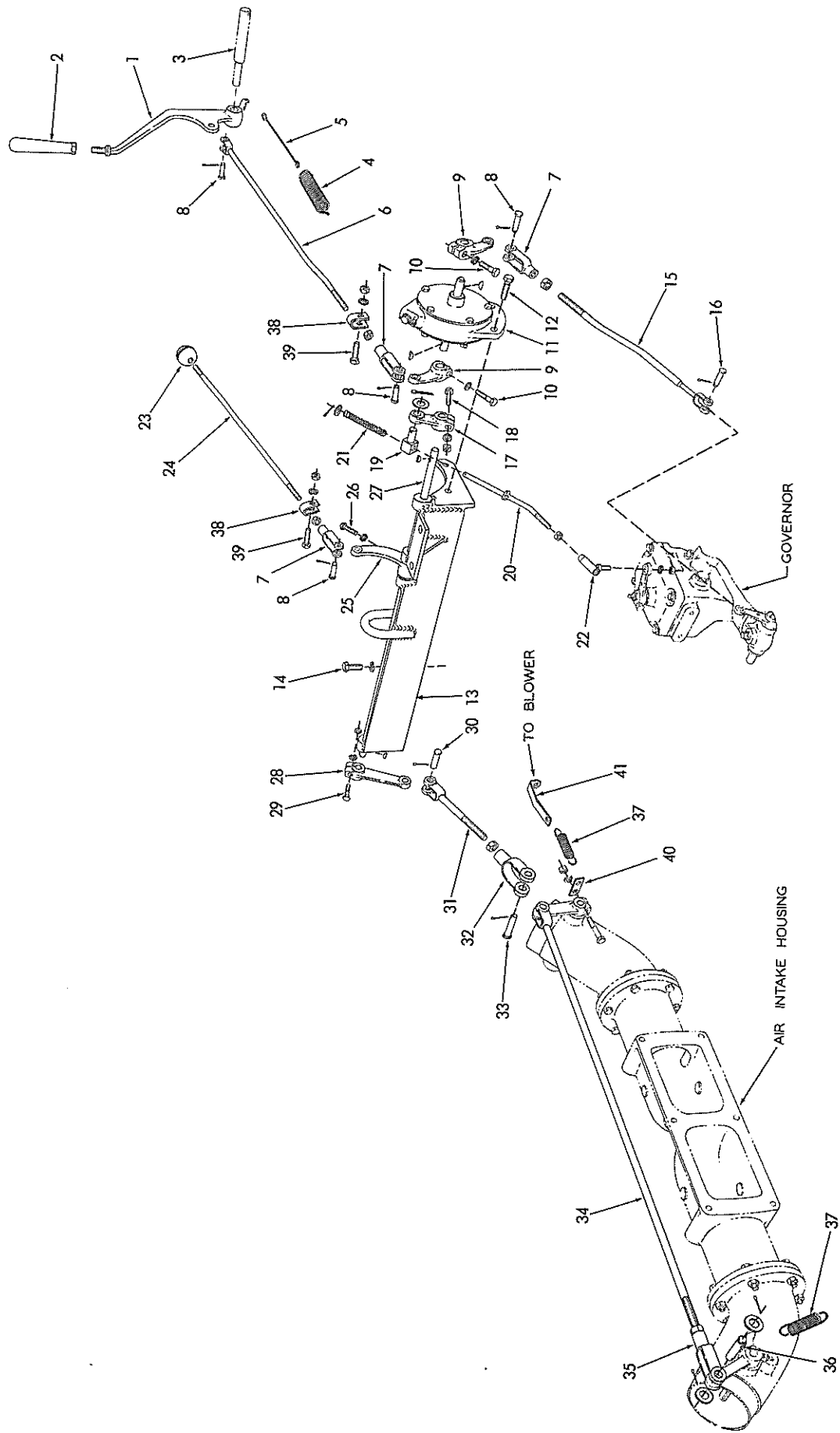
ITEM	NUMBER	QTY.	DESCRIPTION	KIT NUMBER
5	1871265	1	WASHER, insulating	
6	5183571	1	BRACKET, resistor mounting	
	906692	1	CAPSCREW, 1/4"NC x 3/8"	
	904204	1	LOCKWASHER, 1/4"	
7	5153395	1	NUT, insulator retaining	
8	5154125	1	LEAD, coil to insulator (high tension)	
9	1556410	1	INSULATOR PACKAGE (Includes terminal NUT and item 11)	
10	AM-8763	1	CLIP, fuel tube (single, closed type, 3/16" diam., 9/32" bolt-hole)	
11	5158594	1	GASKET, insulator	
12	5153390	1	SCREW ASSEMBLY, electrode (1 SCREW, 1 ELECTRODE)	
	904204	1	LOCKWASHER, 1/4"	
13	5153389	1	SPRING, filter (Used on early units only)	
14	5153388	1	FILTER, fuel (Used on early units only)	
15	5077487	1	BODY, fuel filtering screen (Used on late units)	
16	5077489	1	SCREEN, fuel filtering screen (Used on late units)	
17	5151921	1	WASHER, spray nozzle	
18	5076204	1	NOZZLE, spray	



THROTTLE ASSEMBLY 069309

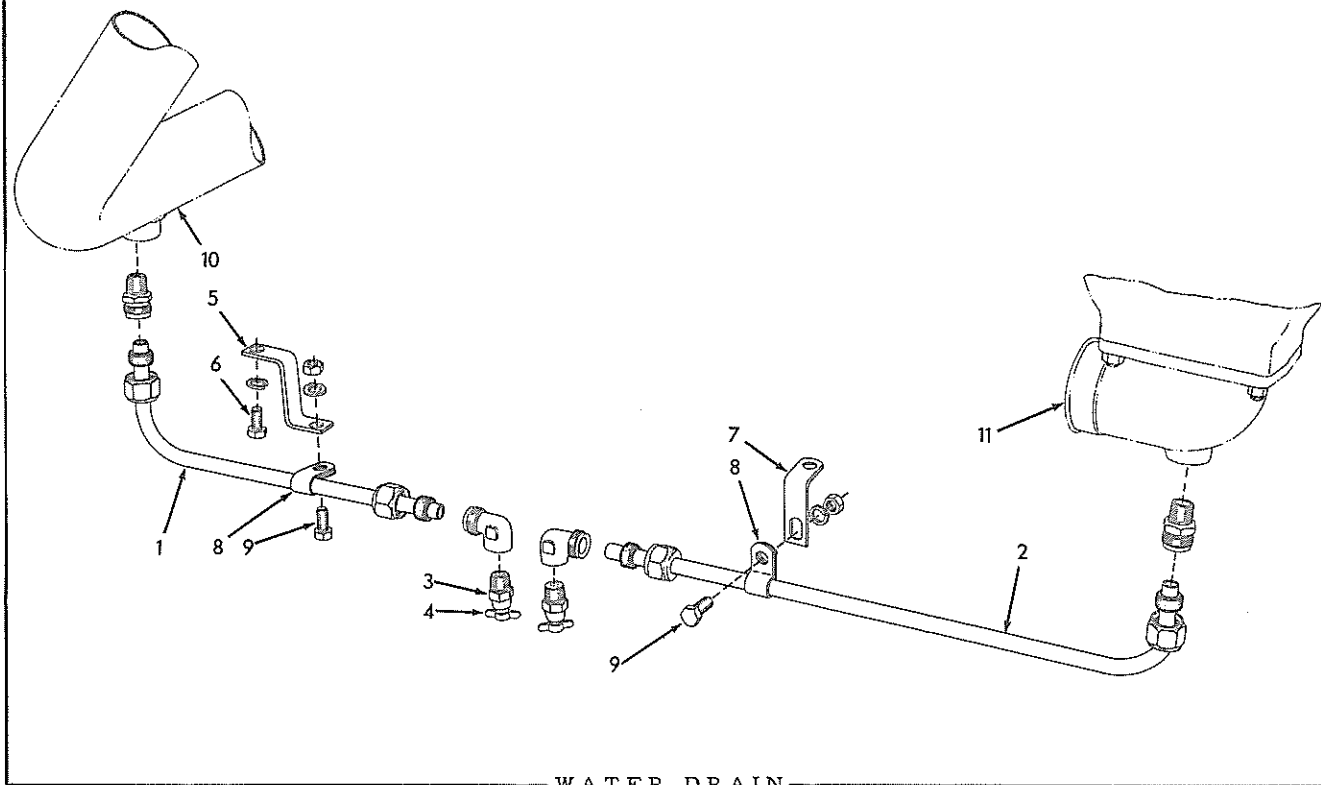
NOTE: See page 77 for listing of complete Throttle Assembly.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	068859	1	HOUSING	
2	073033	1	DRUM AND SHAFT	
3	069996	2	WASHER, thrust	
4	068866	2	PLATE ASSEMBLY, housing cover (Includes item 5)	
	914392	5	CAPSCREW, 1/4"NF x 1-3/4"	
	904206	5	LOCKWASHER, 1/4"	
	911041	5	NUT, 1/4"NF	
5	071800	2	BUSHING, throttle shaft	
6	068865	2	GASKET, cover plate	
7	068861	1	BAND ASSEMBLY, friction (Includes item 8)	
8	068864	1	LINING, friction band	
	915707	4	RIVET, tubular, brass, 3/16" x 9/64"	
9	068869	1	PIN, friction band	
10	068911	1	SPRING, friction band	
11	069349	2	COLLAR, friction band spring	
12	068862	1	CAPSCREW, friction band adjustment	
	904020	1	PIN, cotter, 1/16" x 1"	
	901150	1	NUT, square, 1/4"NC	



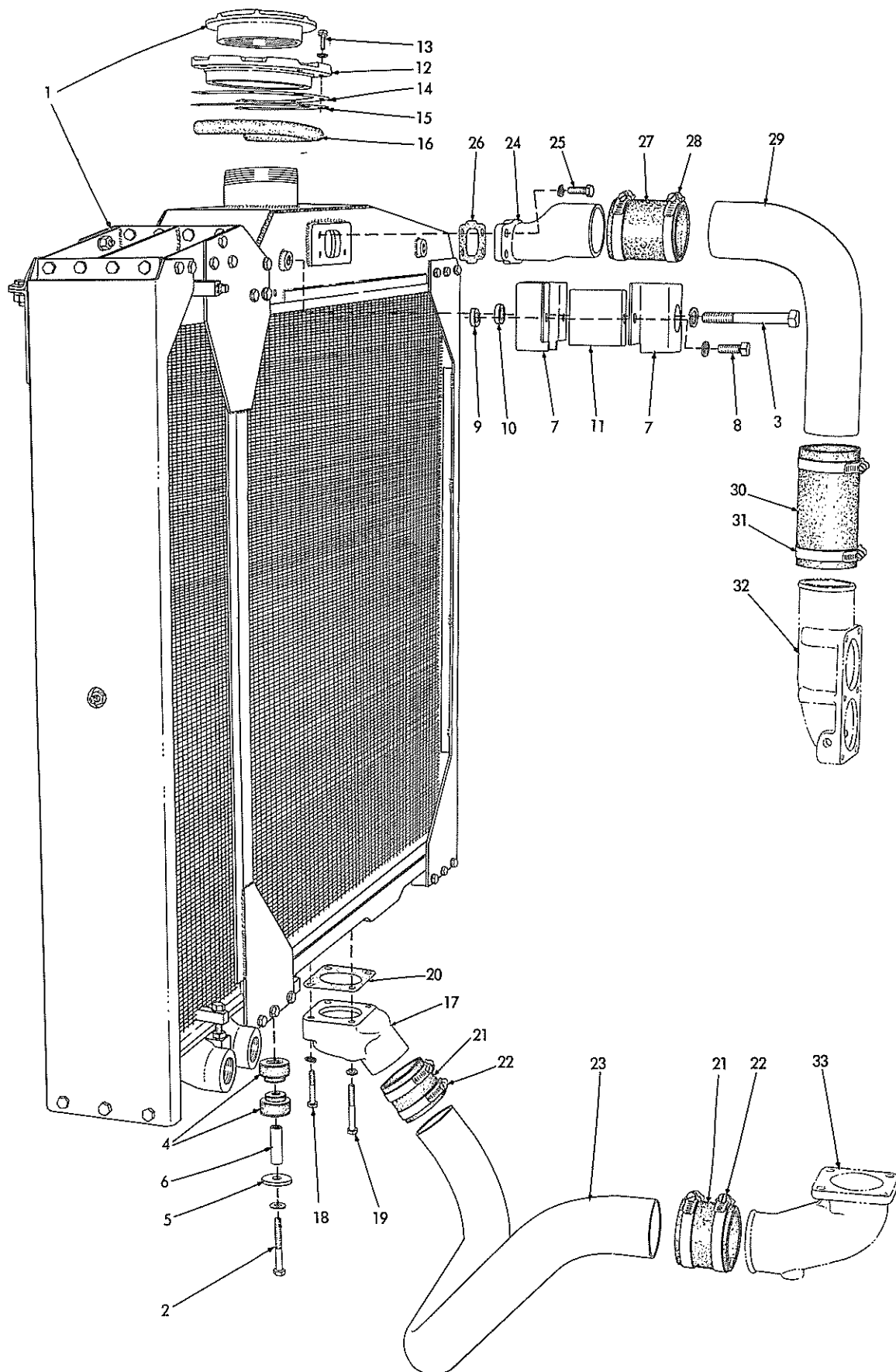
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	074574	1	LEVER, operating, throttle control	
2	052591	1	GRIP, throttle operating lever	
3	-----	1	SHAFT, throttle operating lever (See STEERING LEVERS AND LINKAGE)	
4	043881	1	SPRING, retracting, throttle operating lever	
5	057885	1	LINK, throttle lever retracting spring	
6	069313	1	ROD, throttle control, rear	
	911041	1	NUT, 3/8"NF	
7	033056	3	YOKE, control rods	
8	033069	4	PIN, control rods	
	900942	4	PIN, cotter, 3/32" x 5/8"	
9	055416	2	LEVER, intermediate, throttle control	
	905121	2	KEY, #5 woodruff, 1/8" x 5/8"	
10	037450	2	CAPSCREW, 5/16"NC x 1-1/4"	
	904205	2	LOCKWASHER, 5/16"	
11	069309	1	THROTTLE ASSEMBLY (See page 75 for repair parts)	
12	012992	2	CAPSCREW, 3/8"NF x 1-1/4"	
	904206	2	LOCKWASHER, 3/8"	
	911041	2	NUT, 3/8"NF	
13	078970	1	BRACKET, throttle supporting	078274
14	043886	4	CAPSCREW, 7/16"NC x 1"	
	904207	4	LOCKWASHER, 7/16"	
15	069324	1	ROD, throttle control, front	
	911041	1	NUT, 3/8"NF	
16	033067	1	PIN, control rod	
	904001	1	PIN, cotter, 3/32" x 1/2"	
17	068673	1	LEVER, fuel shut-off	
	905121	1	KEY, #5 woodruff, 1/8" x 5/8"	
18	041981	1	CAPSCREW, 5/16"NF x 1-1/2"	
	904205	1	LOCKWASHER, 5/16"	
	913636	1	NUT, 5/16"NF	
19	068058	1	PIN, fuel shut-off lever	
	900806	1	PIN, cotter, 1/8" x 1"	
	910244	1	WASHER, plain, SAE std., 1/2"	
20	069326	1	ROD, fuel shut-off	
	913636	1	NUT, 5/16"NF	
	910335	1	WASHER, plain, SAE std., 5/16"	
	904001	1	PIN, cotter, 3/32" x 1"	
21	070385	1	SPRING, fuel shut-off rod	
22	915846	1	JOINT, ball, fuel shut-off	
	904205	1	LOCKWASHER, 5/16"	
	913636	1	NUT, 5/16"NF	
23	206456	1	KNOB, engine shut-off control	
24	069312	1	ROD, engine shut-off, rear (Not for Model HD20G)	
	079271	1	ROD, engine shut-off, rear (Model HD20G only)	
	911041	1	NUT, 3/8"NF	
25	069291	1	LEVER, engine shut-off	
	905121	1	KEY, #5 woodruff, 1/8" x 5/8"	
26	037450	1	CAPSCREW, 5/16"NC x 1-1/4"	
	904205	1	LOCKWASHER, 5/16"	
27	068677	1	SHAFT, engine shut-off	

ITEM	NUMBER	QTY.	DESCRIPTION	KIT NUMBER
28	069288	1	LEVER, engine air shut-off	
	905121	1	KEY #5 woodruff, 1/8" x 5/8"	
29	041981	1	CAPSCREW, 5/16"NF x 1-1/2"	
	904205	1	LOCKWASHER, 5/16"	
	913636	1	NUT, 5/16"NF	
30	033072	1	PIN, air shut-off lever	
	910967	1	PIN, cotter, 1/8" x 7/8"	
31	069325	1	ROD, air shut-off, rear	
	911043	1	NUT, 1/2"NF	
32	069311	1	YOKE, air shut-off rods	
33	041319	1	PIN, air shut-off yoke	
	910967	1	PIN, cotter, 1/8" x 7/8"	
34	074227	1	ROD, air shut-off, front	
	911043	1	NUT, 1/2"NF	
35	068389	1	YOKE, air shut-off	
36	068674	1	PIN, air shut-off yoke	
	900802	2	PIN, cotter, 3/32" x 1"	
	910244	2	WASHER, plain, SAE std., 1/2"	
37	605603	2	SPRING, air shut-off levers	
38	080197	2	CLAMP, stop, engine shut-off rod	
39	012992	2	CAPSCREW, 3/8"NF x 1-1/4"	
	911041	2	NUT, 3/8"NF	
	904206	2	LOCKWASHER, 3/8"	
40	080940	1	CLIP, rear air shut-off lever spring, front	
41	080941	1	CLIP, rear air shut-off lever spring, rear	



WATER DRAIN

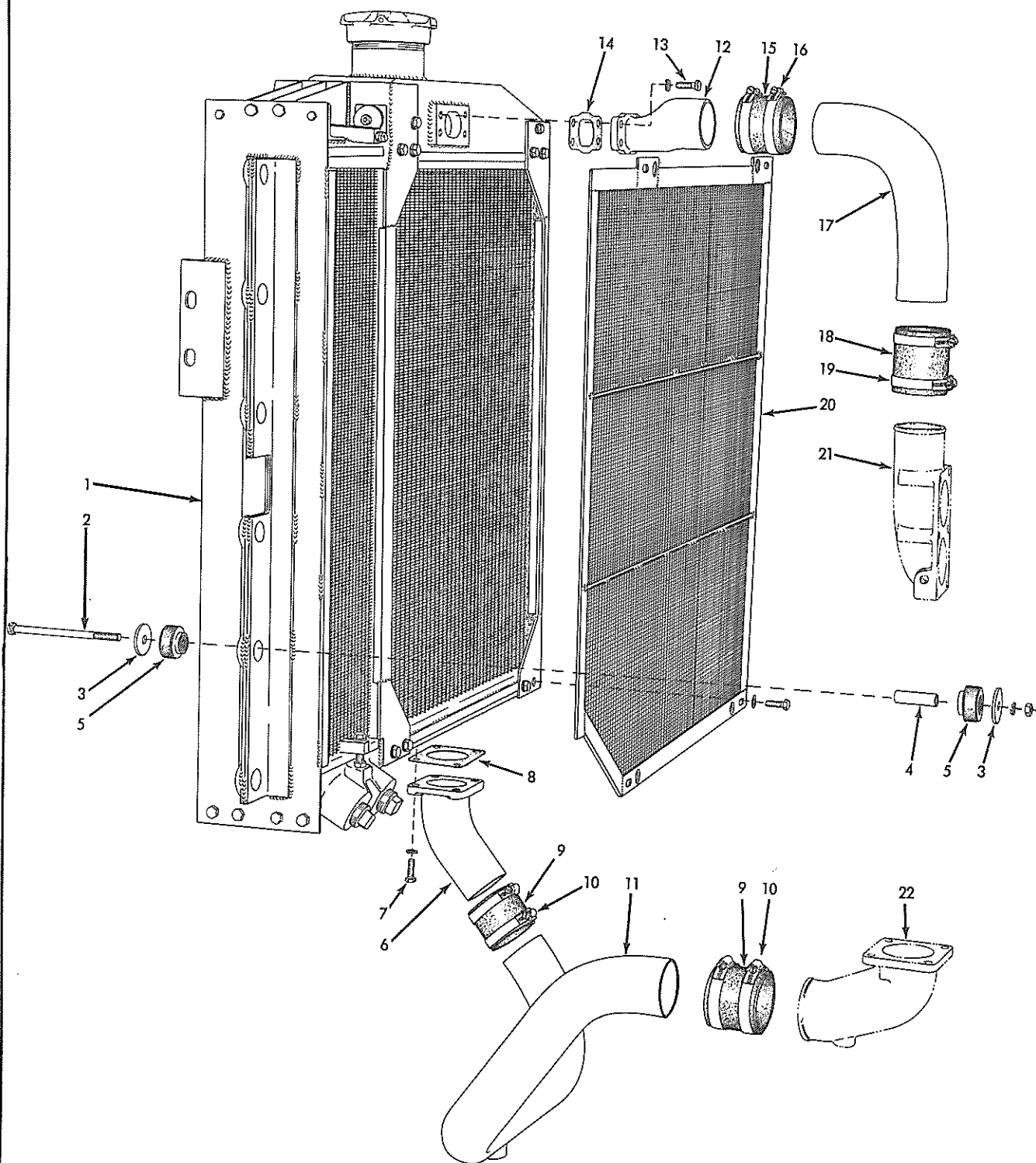
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	073545	1	TUBE, radiator drain	
	915378	1	CONNECTOR, Sealastic, 1/2" tube, 3/8"NPT male	
	915875	1	ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT female	
	915376	2	NUT, Sealastic fitting, 1/2" tube	
	915377	2	RING, Sealastic, 3/8" tube (Includes FERRULE)	
2	073544	1	TUBE, oil cooler drain	
	915378	1	CONNECTOR, Sealastic, 1/2" tube, 3/8"NPT male	
	915875	1	ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT female	
	915376	2	NUT, Sealastic fitting, 1/2" tube	
	915377	2	RING, Sealastic, 3/8" tube (Includes FERRULE)	
3	U-1671	2	COCK, water drain (Includes item 4)	
4	209359	2	STEM, drain cock	
5	074429	1	ANGLE, clip supporting	
6	035244	1	CAPSCREW, 3/8"NC x 3/4"	
	904206	1	LOCKWASHER, 3/8"	
7	073546	1	ANGLE, clip supporting	
8	207091	2	CLIP, tube attaching	
9	036032	2	CAPSCREW, 3/8"NF x 3/4"	
	904206	2	LOCKWASHER, 3/8"	
	911041	2	NUT, 3/8"NF	
10	-----	1	TUBE, radiator outlet (See RADIATOR AND WATER CONNECTIONS)	
11	-----	1	ELBOW (See OIL COOLER)	



RADIATOR AND WATER CONNECTIONS

USAGE: Models HD20H and HD20F only.

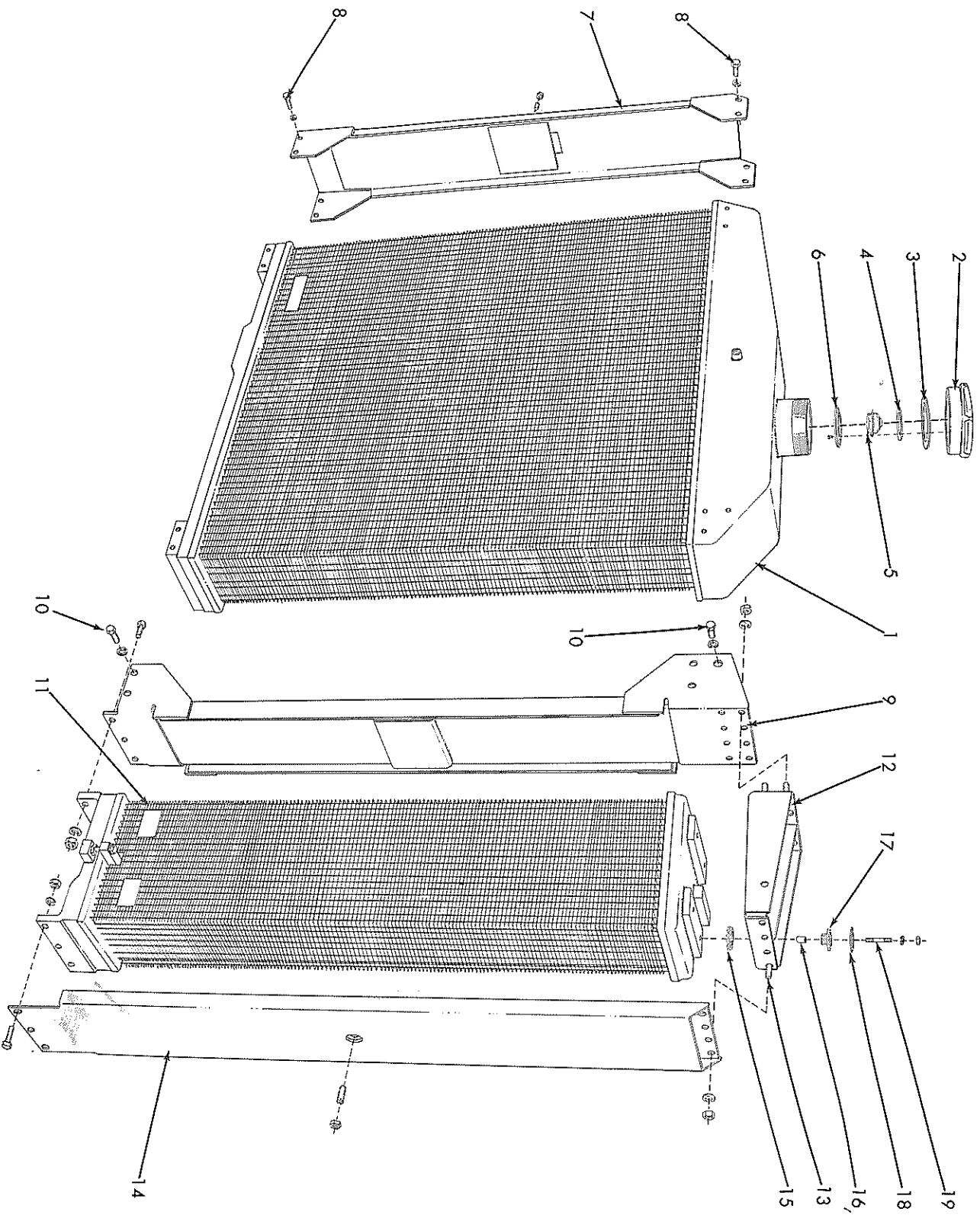
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	066450	1	RADIATOR ASSEMBLY (See page 85 for repair parts)(Used on tractors prior to #3152, excluding #3139 thru #3146. Order RADIATOR ASSEMBLY 079606 and ADAPTING KIT 075951)	
	079606	1	RADIATOR ASSEMBLY (See page 87 for repair parts)(Used on tractors #3152 and up, including #3139 thru #3146)	
2	058936	7	CAPSCREW, 3/8"NC x 2-3/4"	
	904206	7	LOCKWASHER, 3/8"	
3	045253	2	CAPSCREW, 1/2"NC x 3-3/4"	
	904208	2	LOCKWASHER, 1/2"	
4	061671	14	SNUBBER, vibration, radiator bottom mounting	
5	061656	7	WASHER, bottom vibration snubber	
6	061655	7	TUBE, spacing, bottom vibration snubber	
7	069530	4	MOUNTING, radiator	
8	044249	4	CAPSCREW, 3/8"NC x 1-1/8" (Tractors prior to #3095)	
	036034	4	CAPSCREW, 3/8"NF x 1" (Tractors #3095 and up)	
	904206	4	LOCKWASHER, 3/8"	
9	069503	4	SPACER, mounting bolt (1/4" thick)(Tractors prior to #3095)	
10	069505	2	SPACER, upper mounting bolt (3/16" thick)	
11	074319	2	SPACER, upper mounting bolt (11/16" thick)	
NOTE: Items 12 thru 16 comprise the RADIATOR TOP SUPPORT ARRANGEMENT which started with tractor #3847. For converting prior tractors order SUPPORT KIT 076690.				
12	076561	1	RING, radiator support	076690
13	036034	6	CAPSCREW, 3/8"NF x 1"	076690
	904206	6	LOCKWASHER, 3/8"	076690
14	076685	2	SHIM, adjusting, support ring (1/32" thick. Use as req'd)	076690
15	076684	2	SHIM, adjusting, support ring (1/16" thick. Use as req'd)	076690
16	076686	1	STRIP, cushion	076690
17	067873	1	ELBOW, radiator outlet	
18	053616	2	CAPSCREW, 3/8"NC x 1-3/4"	
19	058936	2	CAPSCREW, 3/8"NF x 2-3/4"	
	904206	4	LOCKWASHER, 3/8"	
20	074260	1	GASKET, radiator outlet	
21	067883	2	HOSE, radiator outlet tube (2-3/4"I.D. x 2-1/4" long)	
22	055928	4	CLAMP, hose, adjustable, 2-1/2" to 3-1/2" diam.	
23	067877	1	TUBE, radiator outlet	
24	073030	1	INLET, radiator	
25	035439	4	CAPSCREW, 3/8"NC x 1"	
	904206	4	LOCKWASHER, 3/8"	
26	051789	1	GASKET, radiator inlet	
27	067884	1	HOSE, radiator inlet (2-3/4"I.D. x 3-1/2" long)	
28	055928	2	CLAMP, hose, adjustable, 2-1/2" to 3-1/2" diam.	
29	067862	1	ELBOW, radiator inlet	
30	067885	1	HOSE, radiator inlet (2-3/4"I.D. x 6" long)	
31	055928	2	CLAMP, hose, adjustable, 2-1/2" to 3-1/2" diam.	
32	-----	1	ELBOW (See WATER MANIFOLD)	
33	-----	1	ELBOW (See WATER PUMP)	



RADIATOR AND WATER CONNECTIONS

USAGE: Model HD20G only.

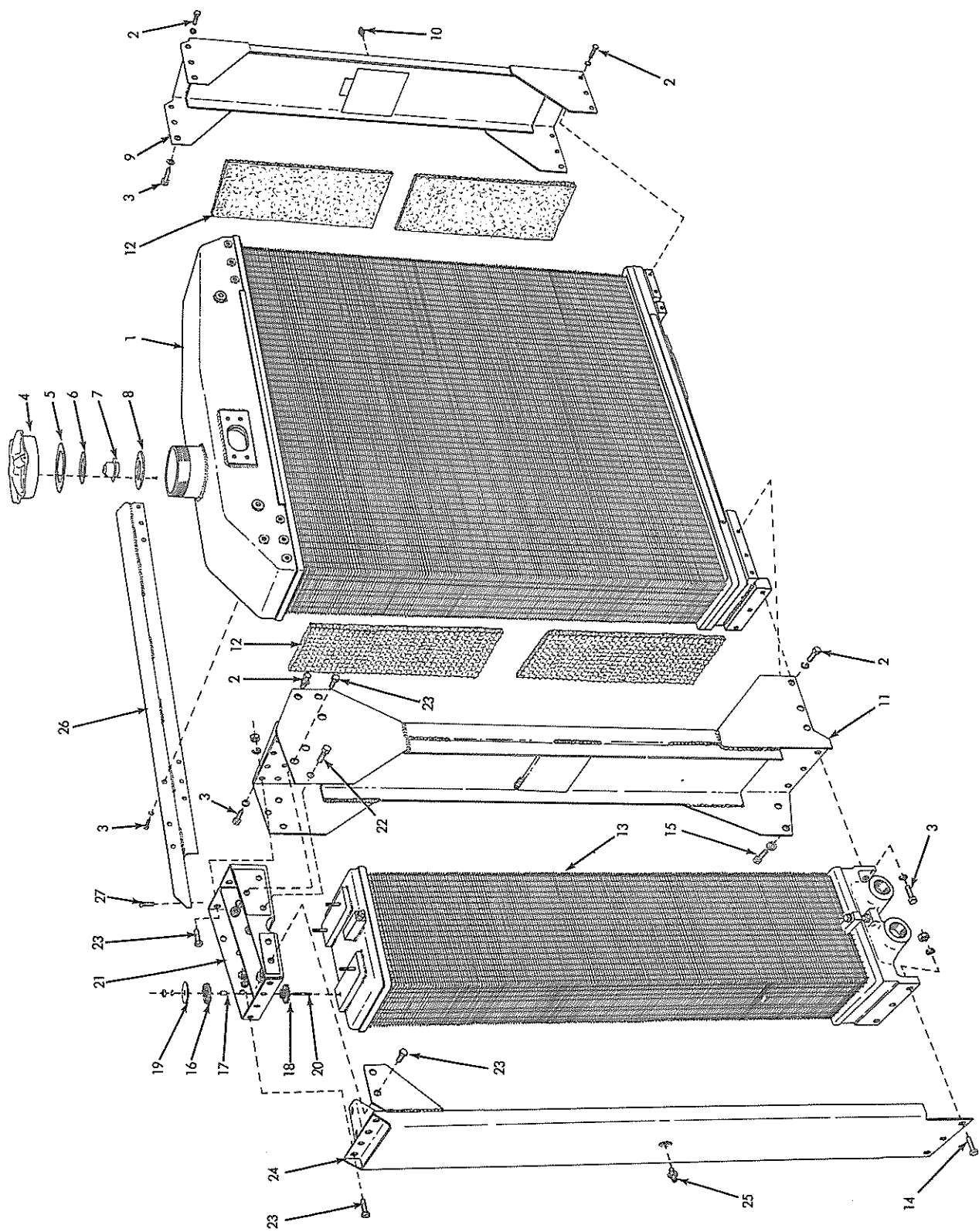
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	061651	1	RADIATOR ASSEMBLY (See page 89 for repair parts)	
2	076707	12	CAPSCREW, 3/8"NF x 6"	
	904206	12	LOCKWASHER, 3/8"	
	911041	12	NUT, 3/8"NF	
3	061656	24	WASHER, vibration snubber (12 used prior to #5652)	
4	061655	12	TUBE, spacing, vibration snubber	
5	061671	24	SNUBBER, vibration	
6	074498	1	ELBOW, radiator outlet	
7	035439	4	CAPSCREW, 3/8"NC x 1"	
	904206	4	LOCKWASHER, 3/8"	
8	074260	1	GASKET, radiator outlet	
9	067883	2	HOSE, radiator outlet (2-3/4" I.D. x 2-1/4" long)	
10	055928	4	CLAMP, hose, adjustable, 2-1/2" to 3-1/2" diam.	
11	067877	1	TUBE, radiator outlet	
12	073030	1	INLET, radiator	
13	035439	4	CAPSCREW, 3/8"NC x 1"	
	904206	4	NUT, 3/8"NF	
14	051789	1	GASKET, radiator inlet	
15	067883	1	HOSE, radiator inlet (2-3/4" I.D. x 2-1/4" long)	
16	055928	2	CLAMP, hose, adjustable, 2-1/2" to 3-1/2" diam.	
17	074497	1	ELBOW, radiator inlet	
18	067884	1	HOSE, radiator inlet (2-3/4" I.D. x 3-1/2" long)	
19	055928	2	CLAMP, hose, adjustable, 2-1/2" to 3-1/2" diam.	
20	079628	1	SCREEN, radiator (8 openings per lineal inch)(Started with tractor #5652)	
	911115	4	WASHER, plain, SAE std., 3/8"	
21	-----	1	ELBOW (See WATER MANIFOLD)	
22	-----	1	ELBOW (See WATER PUMP)	



RADIATOR ASSEMBLY 066450

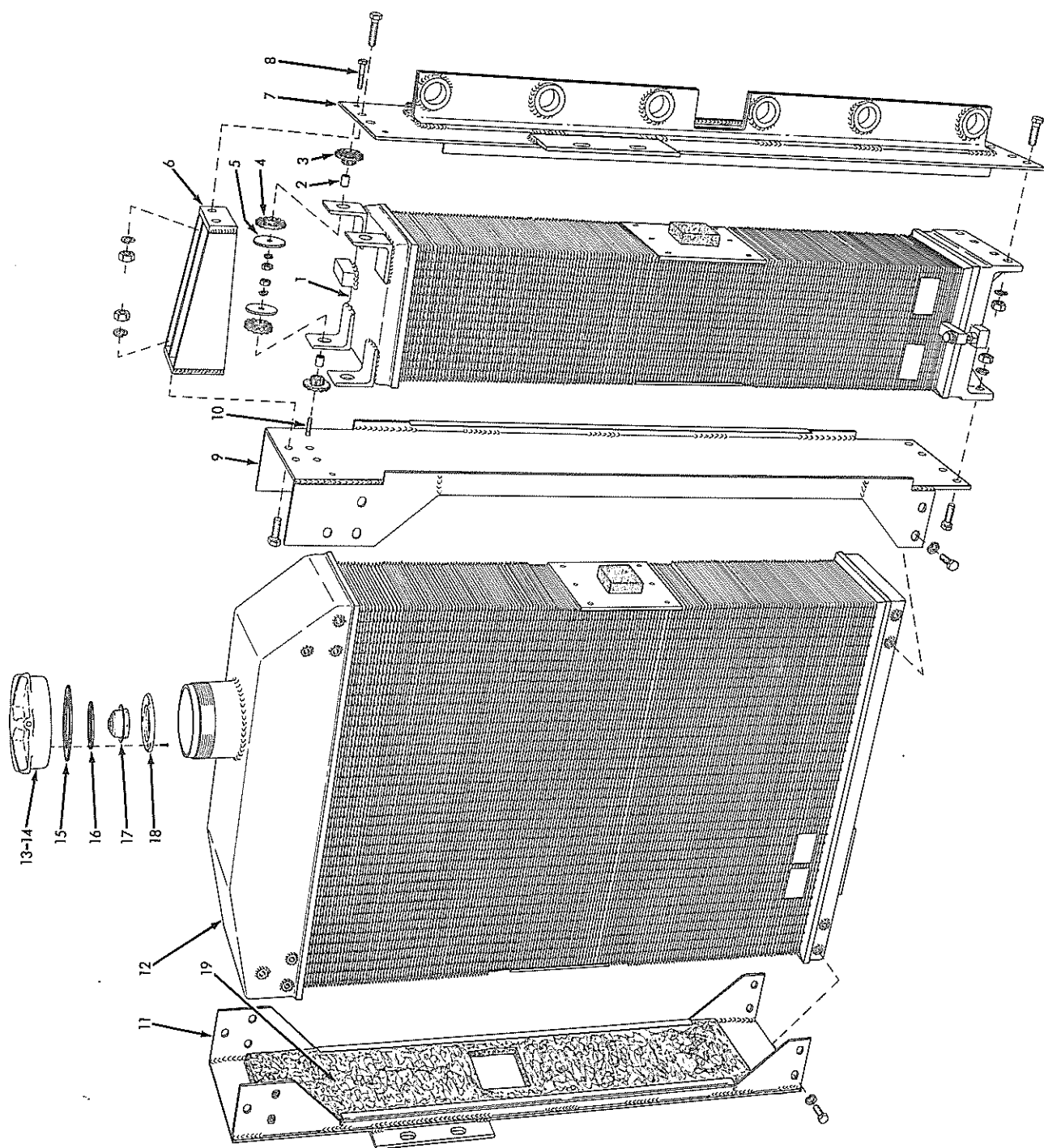
USAGE: For Model HD20H and HD20F tractors prior to #3152, excluding tractors #3139 thru #3146. For listing of complete Radiator Assembly see page 81.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	-----	1	RADIATOR, water cooling (Not serviced. Order RADIATOR 079605)	
	075307	1	RADIATOR, water cooling (Reconditioned. Available on exchange basis only)	
2	058730	1	CAP ASSEMBLY, water cooling radiator (Includes items 3 thru 6)	
3	059242	1	GASKET, radiator cap	
4	059244	1	GASKET, pressure valve	
5	059245	1	VALVE, pressure	
6	059243	1	RING, pressure valve retaining	
	914782	3	SCREW, machine, rd-hd., brass, #5-40 x 3/8"	
7	067471	1	MEMBER, side, right	
	901320	1	SETSCREW, slotted-hd., cup-pt., 3/8"NC x 1"	
8	903584	1	NUT, jam, 3/8"NC	
	035439	8	CAPSCREW, 3/8"NC x 1"	
	904206	8	LOCKWASHER, 3/8"	
9	075562	1	MEMBER, side, center	
10	035439	10	CAPSCREW, 3/8"NC x 1"	
	904206	10	LOCKWASHER, 3/8"	
11	-----	1	RADIATOR, cooling, torque converter fluid (Not serviced. Order RADIATOR 075590)	
	069225	1	RADIATOR, cooling, torque converter fluid (Reconditioned. Available on exchange basis only)	
	910211	6	CAPSCREW, 3/8"NC x 1-1/8"	
	911026	6	NUT, 3/8"NC	
	904206	6	LOCKWASHER, 3/8"	
12	067474	1	CHANNEL, supporting, fluid cooling radiator	
13	035439	12	CAPSCREW, 3/8"NC x 1"	
	900367	12	NUT, 3/8"NC	
	904206	12	LOCKWASHER, 3/8"	
14	067473	1	MEMBER, side, left	
	901320	1	SETSCREW, slotted-hd., cup-pt., 3/8"NC x 1"	
	903584	1	NUT, jam, 3/8"NC	
15	064407	4	WASHER, radiator mounting (rubber)	
16	064410	4	SPACER, radiator mounting	
17	064408	4	BUSHING, radiator mounting (rubber)	
18	064409	4	WASHER, radiator mounting (steel)	
19	081752	4	STUD, radiator mounting (1/4"NC x 1/4"NC x 1-1/2")	
	900365	4	NUT, 1/4"NC	
	904204	4	LOCKWASHER, 1/4"	



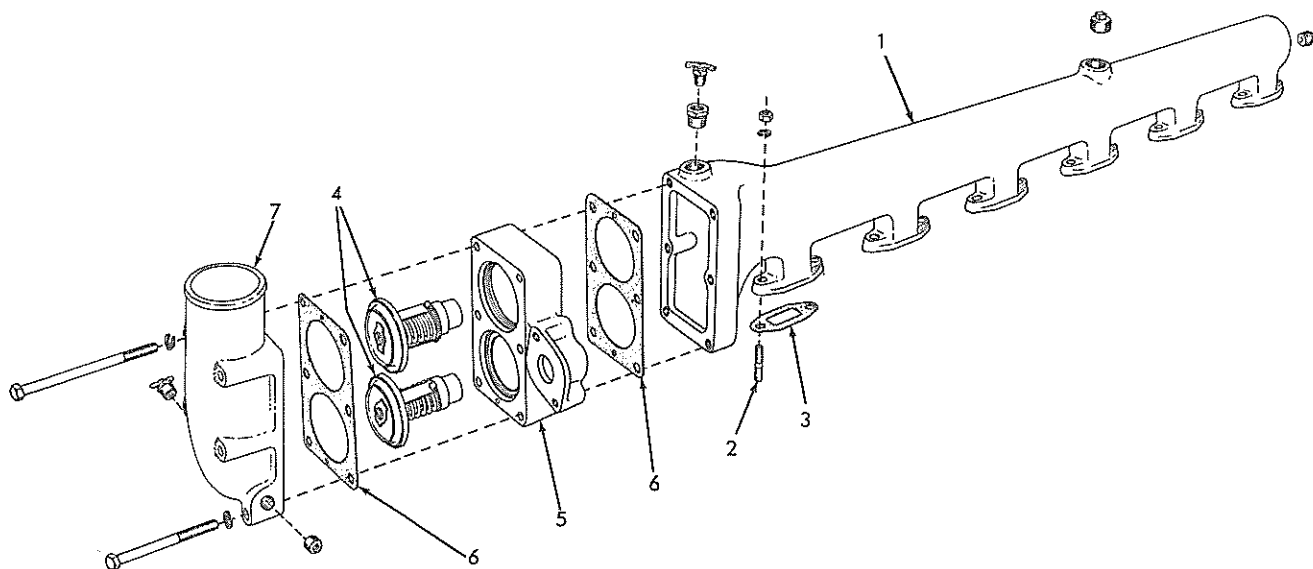
USAGE: For Models HD20H and HD20F only. For listing of complete Radiator Assembly see page 81.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	{ 079605	1	RADIATOR, water cooling	
	{ 076375	1	RADIATOR, water cooling (Reconditioned. Available on exchange basis only)	
2	081751	18	CAPSCREW (3/8"NC x 1", plated)	
3	081750	10	CAPSCREW (3/8"NC x 1-1/8", plated)	
	904206	28	LOCKWASHER, 3/8"	
4	058730	1	CAP ASSEMBLY, water cooling radiator (Includes items 5 thru 8)	
5	059242	1	GASKET, radiator cap	
6	059244	1	GASKET, pressure valve	
7	059245	1	VALVE, pressure	
8	059243	1	RING, pressure valve retaining	
	914782	3	SCREW, machine, brass, #5-40 x 3/8"	
9	075560	1	MEMBER ASSEMBLY, side, right (Includes item 12)	
10	081749	1	SETSCREW (slotted-hd., cup-pt., 3/8"NC x 1", plated)	
	903584	1	NUT, jam, 3/8"NC	
11	075562	1	MEMBER ASSEMBLY, side, center (Includes item 12)	
12	-----	4	PAD, silencing (Not serviced separately)	
13	{ 075590	1	RADIATOR, cooling, torque converter fluid	
	{ 076376	1	RADIATOR, cooling, torque converter fluid (Reconditioned. Available on an exchange basis only)	
14	081750	3	CAPSCREW (3/8"NC x 1-1/8", plated)	
15	081751	2	CAPSCREW (3/8"NC x 1", plated)	
	904206	5	LOCKWASHER, 3/8"	
	900367	3	NUT, 3/8"NC	
16	064407	4	WASHER, radiator mounting (rubber)	
17	064410	4	SPACER, radiator mounting	
18	064408	4	BUSHING, radiator mounting (rubber)	
19	064409	4	WASHER, radiator mounting (steel)	
20	081752	4	STUD, radiator mounting (1/4"NC x 1-1/2")	
	904204	4	LOCKWASHER, 1/4"	
	900365	4	NUT, 1/4"NC	
21	075563	1	CHANNEL, supporting, fluid cooling radiator	
22	081750	2	CAPSCREW (3/8"NC x 1-1/8", plated)	
23	081751	18	CAPSCREW (3/8"NC x 1", plated)	
	904206	20	LOCKWASHER, 3/8"	
	900367	20	NUT, 3/8"NC	
24	075545	1	MEMBER, side, left	
25	081749	1	SETSCREW (slotted-hd., cup-pt., 3/8"NC x 1", plated)	
	903584	1	NUT, jam, 3/8"NC	
26	075583	1	BRACE, top	
27	081751	3	CAPSCREW (3/8"NC x 1", plated)	
	904206	3	LOCKWASHER, 3/8"	
	900367	3	NUT, 3/8"NC	



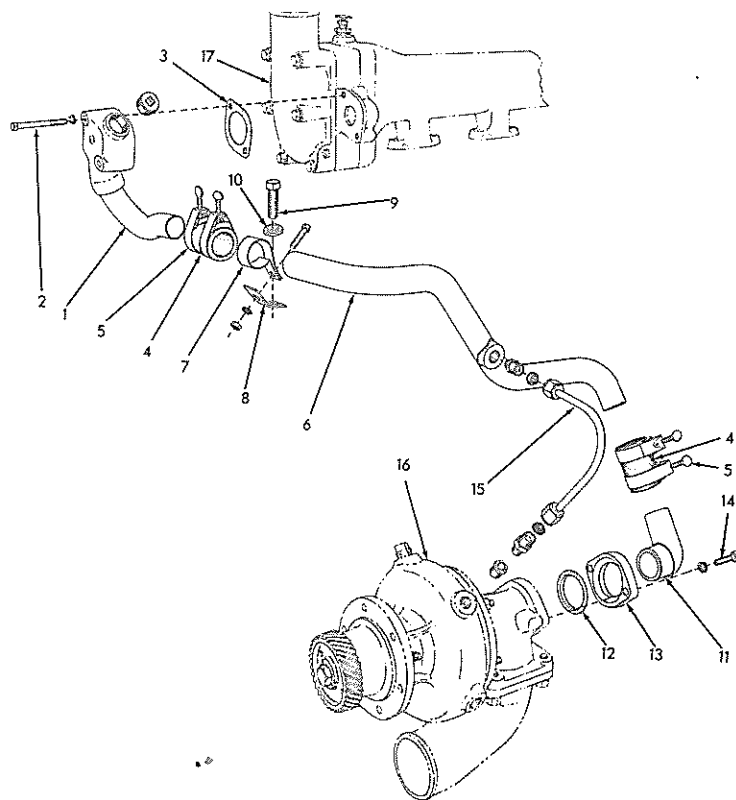
USAGE: Model HD20G only. See page 83 for listing of complete Radiator Assembly.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	064352	1	RADIATOR, cooling, torque converter fluid	
	069009	1	RADIATOR, cooling, torque converter fluid (Reconditioned. Available on exchange basis only)	
2	064410	4	SPACER, radiator mounting	
3	064408	4	BUSHING, radiator mounting (rubber)	
4	064407	4	WASHER, radiator mounting (rubber)	
5	064409	4	WASHER, radiator mounting (steel)	
6	064411	1	CHANNEL, spacing, left side member	
	903631	6	CAPSCREW, 3/8"NC x 1-1/4"	
	911026	6	NUT, 3/8"NC	
	904206	6	LOCKWASHER, 3/8"	
7	061098	1	MEMBER, side, left	
	903631	4	CAPSCREW, 3/8"NC x 1-1/4"	
	904206	4	LOCKWASHER, 3/8"	
	911026	4	NUT, 3/8"NC	
8	054304	2	CAPSCREW, 1/4"NC x 1-1/4"	
	904204	2	LOCKWASHER, 1/4"	
	911024	2	NUT, 1/4"NC	
9	061097	1	MEMBER, side, center	
	903631	4	CAPSCREW, 3/8"NC x 1-1/4"	
	903775	10	CAPSCREW, 3/8"NC x 7/8"	
	904206	14	LOCKWASHER, 3/8"	
	911026	4	NUT, 3/8"NC	
10	054304	2	CAPSCREW, 1/4"NC x 1-1/4"	
	904204	2	LOCKWASHER, 1/4"	
	911024	2	NUT, 1/4"NC	
11	058761	1	MEMBER, side, right	
	903775	10	CAPSCREW, 3/8"NC x 7/8"	
	904206	10	LOCKWASHER, 3/8"	
12	064351	1	RADIATOR, water cooling (one-piece type)	
13	058730	1	CAP ASSEMBLY, water cooling radiator (Consists of items 14 thru 18)	
14	-----	1	CAP, radiator (Furnished only as part of item 13)	
15	059242	1	GASKET, radiator cap	
16	059244	1	GASKET, pressure valve	
17	059245	1	VALVE, pressure	
18	059243	1	RING, pressure valve retaining	
	914782	3	SCREW, machine, rd.-hd., brass, #5-40 x 3/8"	
19	-----	2	PAD, silencing (Not serviced)	



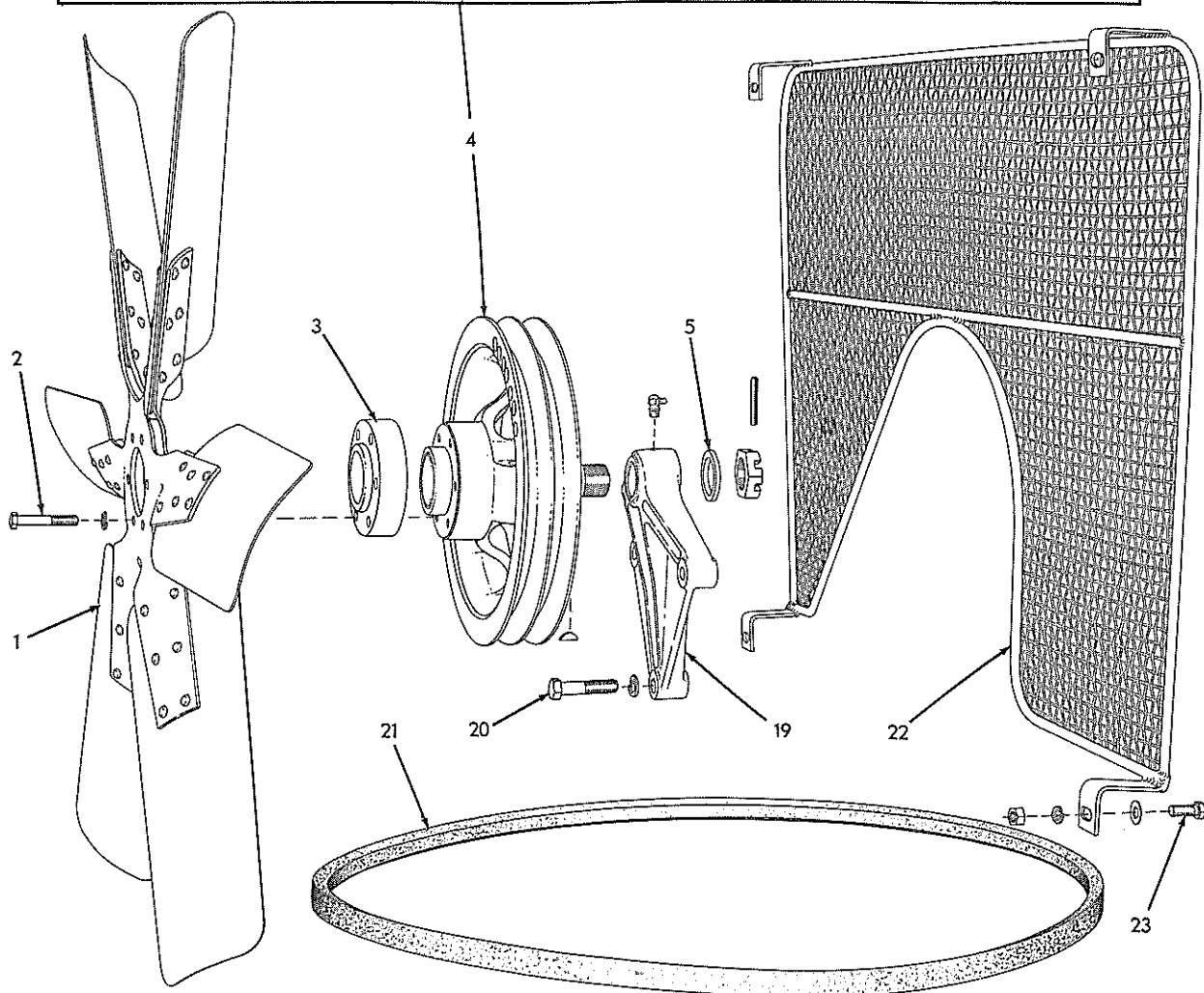
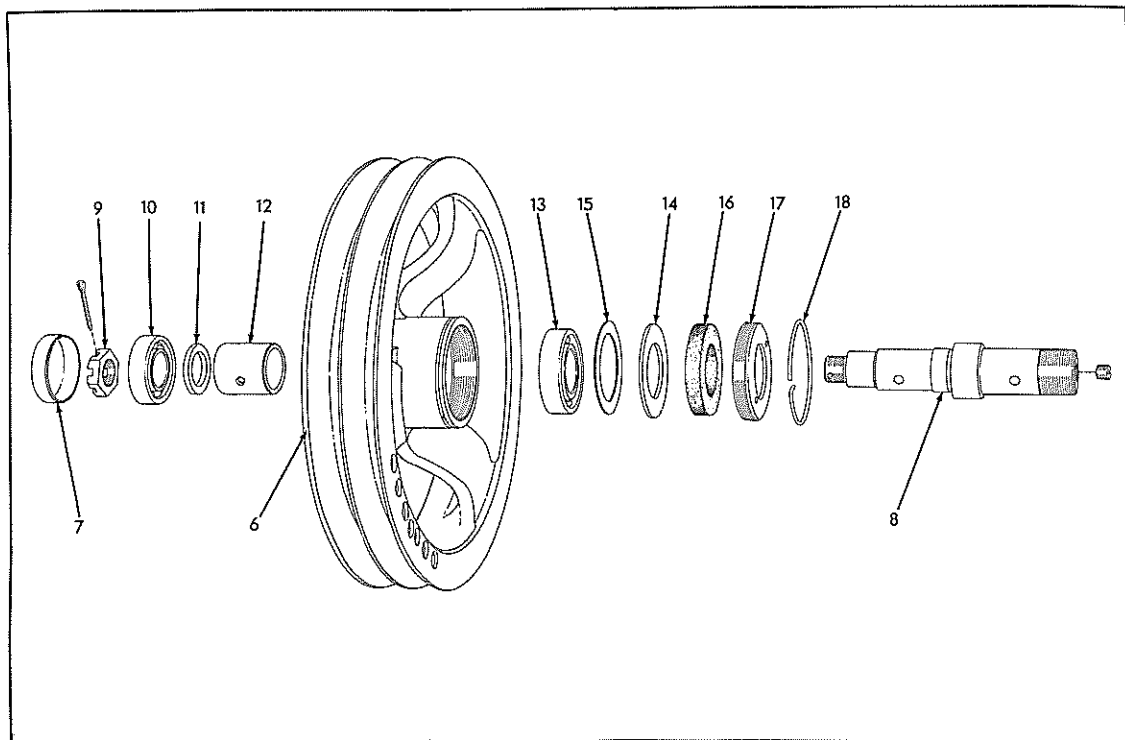
WATER OUTLET MANIFOLD

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5182157	1	MANIFOLD, water outlet	
	912725	1	PLUG, pipe, 1/2"NPT	
	912726	1	PLUG, pipe, 3/4"NPT	
	915433	1	COCK, drain, T-handle, 1/4"NPT (air vent)	
	901839	1	BUSHING, pipe reducing, 1/2"NPT to 1/4"NPT	
2	5150362	12	STUD (3/8"NC x 3/8"NF x 1-11/16")	
	904206	12	LOCKWASHER, 3/8"	
	911041	12	NUT, 3/8"NF	
3	5175991	6	GASKET, water manifold	5183332 5193466
4	5183139	2	THERMOSTAT	
5	5182158	1	HOUSING, thermostat	
6	5175989	2	GASKET, thermostat housing	5183332 5193466
7	5177898	1	ELBOW, water outlet	
	911081	1	PLUG, pipe, slotted-hd., 1/4"NPT	
	915433	1	COCK, drain, T-handle, 1/4"NPT	
	906696	2	CAPSCREW, 3/8"NC x 3-3/4"	
	906698	4	CAPSCREW, 3/8"NC x 4-3/4"	
	904206	6	LOCKWASHER, 3/8"	



WATER BY-PASS

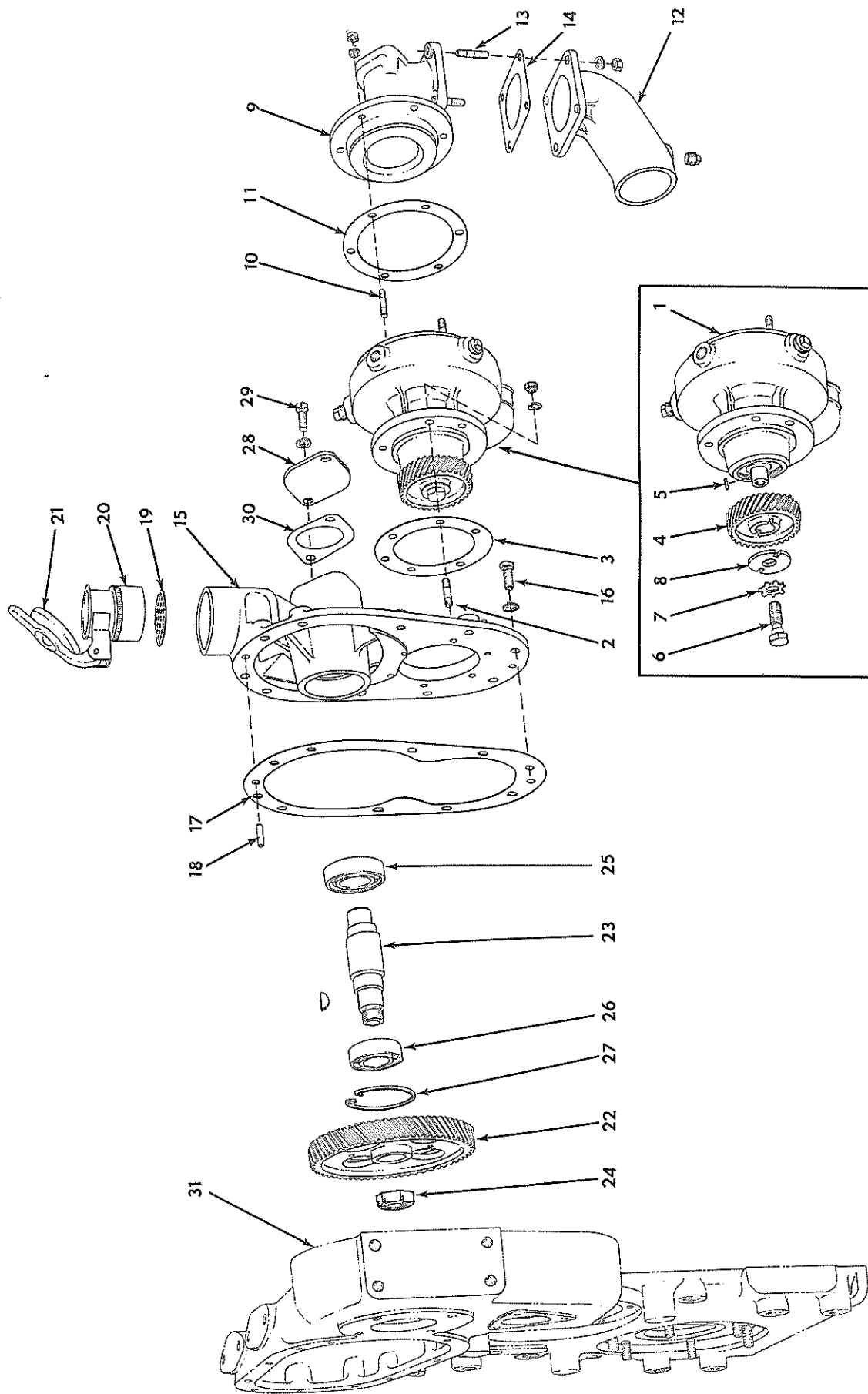
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5179239	1	ADAPTOR ASSEMBLY, water by-pass tube (Includes PLUG 904224)	
	904224	1	PLUG, pipe, ctsk-hd., 3/4" NPT	
2	033751	2	CAPSCREW, 5/16" NC x 2-1/2"	
	904205	2	LOCKWASHER, 5/16"	
3	5178870	1	GASKET, water by-pass adaptor	5183332 5193466
4	5151906	2	HOSE, water by-pass tube (1-1/4" I.D. x 2-1/4" long)	078274
5	5177883	4	CLAMP, hose, 1-3/4" diam.	
6	5179030	1	TUBE, water by-pass (Engines prior to #6B-3224)	
	5186138	1	TUBE, water by-pass (Engines #6B-3224 and up)	078274
7	5176399	1	CLIP, supporting, water by-pass tube	
	910167	1	CAPSCREW, 5/16" NF x 3/4"	
	904205	1	LOCKWASHER, 5/16"	
	913636	1	NUT, 5/16" NF	
8	5182647	1	ADAPTOR, water by-pass tube clip	
9	035221	1	CAPSCREW, 1/2" NC x 1"	
10	5176774	1	GASKET, cap screw (aluminum)	Tractors prior to #4544
11	5177787	1	ELBOW, water by-pass tube	
12	5150191	1	PACKING, water by-pass tube elbow	5183332
13	5173730	1	FLANGE, water by-pass tube elbow packing	
14	037450	2	CAPSCREW, 5/16" NC x 1-1/4"	
	904205	2	LOCKWASHER, 5/16"	
15	5179034	1	TUBE, water pump vent (Engines prior to #6B-3224)	
	5186137	1	TUBE, water pump vent (Engines #6B-3224 and up)	078274
	901834	1	BUSHING, pipe reducing, 1/4" NPT to 1/8" NPT	
	915854	2	CONNECTOR, Sealastic, 5/16" tube, 1/8" NPT	
	915853	2	NUT, Sealastic fitting, 5/16"	
	915852	2	RING, Sealastic fitting, 5/16" tube (Includes FERRULE)	
16	-----	-	PUMP ASSEMBLY, water (See WATER PUMP)	
17	-----	-	HOUSING, thermostat (See WATER MANIFOLD)	



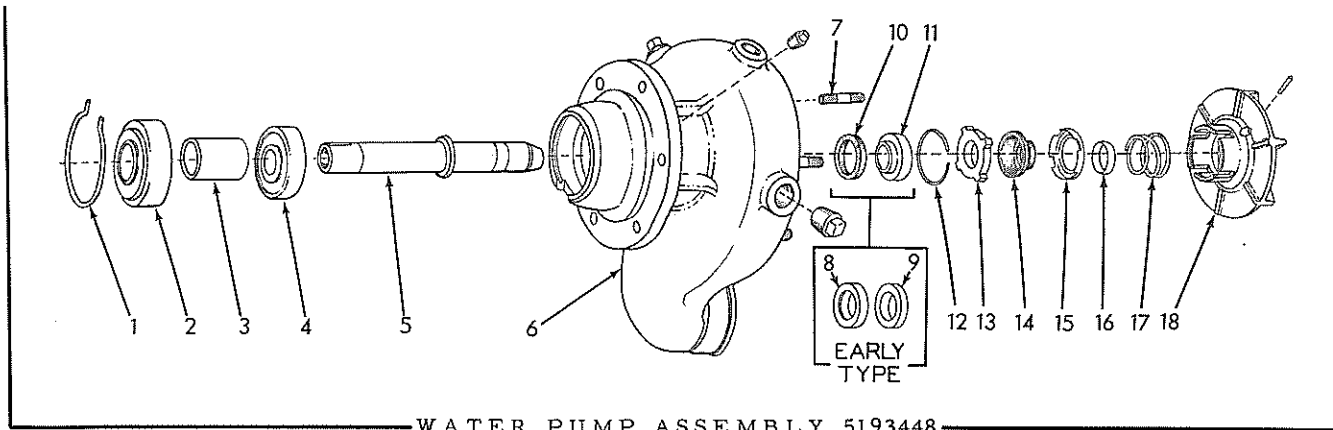
* Models HD20H and HD20F.

** Model HD20G only.

PART QUANTITY				DESCRIPTION	KIT NUMBER
ITEM	NUMBER	*	**		
1	065777	1	-	FAN (Suction type, 36" diam.)(Standard equipment)	
	058747	-	1	FAN (Suction type, 30" diam.)(Standard equipment on tractors prior to #3404)	
	078393	1	-	FAN (Push type, 36" diam.)(Special equipment)	
	078373	-	1	FAN (Push type, 30" diam.)(Standard equipment on tractors #3404 and up)	
2	058793	6	6	CAPSCREW, 3/8"NC x 2-1/4" (For suction fans)	
	013058	6	6	CAPSCREW, 3/8"NC x 1-1/4" (For push fans)	
	904206	6	6	LOCKWASHER, 3/8"	
3	058764	1	1	SPACER, fan (For use with suction fans only)	
4	067926	1	-	PULLEY ASSEMBLY (Consists of items 6 thru 18)	
	074418	-	1	PULLEY ASSEMBLY (Consists of items 6 thru 18)	
	905122	1	1	KEY, #7 woodruff, 1/8" x 3/4"	
	912251	1	1	NUT, jam, 1-1/4"NF (Used prior to Model HD20H and HD20F tractors #4779 and Model HD20G tractors #5261)	
	913798	1	1	NUT, jam, slotted, 1-1/4"NF (Started on Model HD20H and HD20F tractors #4779 and on Model HD20G tractor #5261)	
	915692	1	1	PIN, roll, 1/4" x 1-7/8" (Started on Model HD20H and HD20F tractors #4779 and on Model HD20G tractor #5261)	
5	067962	1	1	WASHER, plain	
6	067925	1	-	PULLEY (12-3/8" diam.)	
	074419	-	1	PULLEY (9-5/8" diam.)	
7	052103	1	1	CAP, pulley	
8	078456	1	1	SPINDLE	
	910230	1	1	PLUG, pipe, slotted-hd., 1/8"NPT	
9	052152	1	1	NUT, spindle (self-locking type)(Used on Model HD20H and HD20F tractors prior to #4063 and Model HD20G tractor prior to #4623)	
	915943	1	1	NUT, jam, slotted, 3/4" (Started with Model HD20H and HD20F tractors #4063 and Model HD20G tractor #4623)	
	900808	1	1	PIN, cotter, 1/8" x 1-1/2"	
10	042986	1	1	BEARING, ball, front	
11	052105	1	1	WASHER, spacing, front bearing	
12	051715	1	1	SLEEVE, spacing, spindle bearings	
13	802379	1	1	BEARING, ball, rear	
14	052108	1	1	WASHER, retaining, rear bearing (steel)	
15	052107	1	1	GASKET, rear bearing retaining washer	
16	052106	1	1	WASHER, spindle seal (cork)	
17	052109	1	1	RETAINER, spindle seal washer	
18	052104	1	1	RING, snap, fan pulley	
19	067707	1	1	BRACKET, fan mounting	
	915276	1	1	FITTING, lubricating, 90°, 1/8"NPT	
20	035712	3	3	CAPSCREW, 1/2"NC x 2-1/4"	
	904208	3	3	LOCKWASHER, 1/2"	
21	068053	2	-	BELT, fan (V-type, 7/8" wide, 86" long)	
	067529	-	2	BELT, fan (V-type, 7/8" wide, 81" long)	
22	065745	1	-	GUARD, fan	
	052814	-	1	GUARD, fan	
23	036034	4	4	CAPSCREW, 3/8"NF x 1"	
	911115	4	4	WASHER, plain, SAE std., 3/8"	
	911041	4	4	NUT, 3/8"NF	
	904206	4	4	LOCKWASHER, 3/8"	

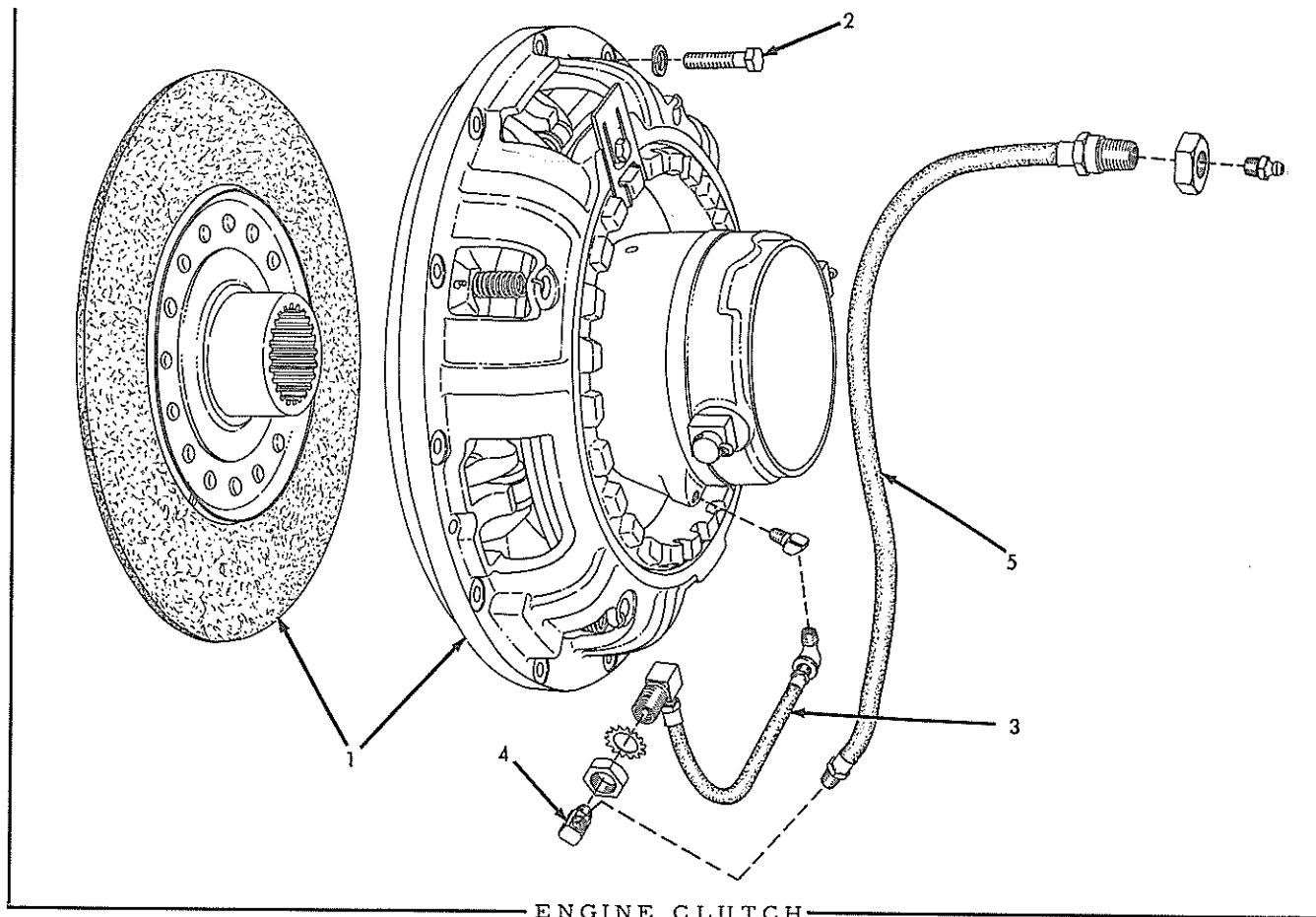


ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5193448	1	PUMP ASSEMBLY, water (See page 96 for repair parts)	
2	5176933	6	STUD (5/16"NC x 5/16"NF x 1.44")	
	910335	6	WASHER, plain, SAE std., 5/16"	
	904205	6	LOCKWASHER, 5/16"	
	913636	6	NUT, 5/16"NF	
3	5176264	1	GASKET, pump to drive adaptor	5183332
4	5175842	1	GEAR, pump shaft	
5	5152707	1	KEY, pump shaft gear (1/8" x 1/8" x 5/8")	
6	5182641	1	BOLT, retaining, pump shaft gear	
7	5154398	1	LOCKWASHER, gear retaining bolt	
8	-----	1	DISC, coupling (See FUEL PUMP AND DRIVE)	
9	5177895	1	ELBOW, pump body	
10	-----	6	STUD (See WATER PUMP ASSEMBLY)	
	904205	6	LOCKWASHER, 5/16"	
	913636	6	NUT, 5/16"NF	
11	5176286	1	GASKET, pump body elbow	5183332
12	5177896	1	ELBOW, water inlet	
	901652	1	PLUG, pipe, 1/4"NPT	
13	052181	4	STUD (3/8"NC x 3/8"NF x 1-3/4")	
	904206	4	LOCKWASHER, 3/8"	
	911041	4	NUT, 3/8"NF	
14	5176676	1	GASKET, water inlet elbow	5183332
15	5177903	1	ADAPTOR (Also serves as oil FILLER)	
16	070960	10	CAPSCREW, 3/8"NC x 1-1/2"	
	904206	10	LOCKWASHER, 3/8"	
17	5176263	1	GASKET, water pump adaptor	5183332
18	5157933	2	PIN, dowel, water pump adaptor	
19	5150147	1	STRAINER, oil filler	
20	1543853	1	CAP ASSEMBLY, oil filler (Includes item 21)	
21	1543857	1	GASKET, oil filler cap	
22	5175877	1	GEAR, intermediate, water pump driving (70 teeth)	
	910184	1	KEY, #8 woodruff, 5/32" x 3/4"	
23	5182179	1	SHAFT, intermediate driving gear	
24	074154	1	NUT, intermediate driving gear shaft (self-locking, 7/8"NF)	
25	042986	1	BEARING, ball, intermediate driving gear shaft, rear	
26	802379	1	BEARING, ball, intermediate driving gear shaft, front	
27	5176233	1	RING, retaining, front bearing	
28	5164013	1	COVER, water pump adaptor	
29	035439	2	CAPSCREW, 3/8"NC x 1"	
	904206	2	LOCKWASHER, 3/8"	
30	5163760	1	GASKET, water pump adaptor cover	5183332
31	-----	1	COVER, cylinder block (See FRONT COVER AND TRUNNION)	



NOTE: See page 95 for listing of complete Pump Assembly.

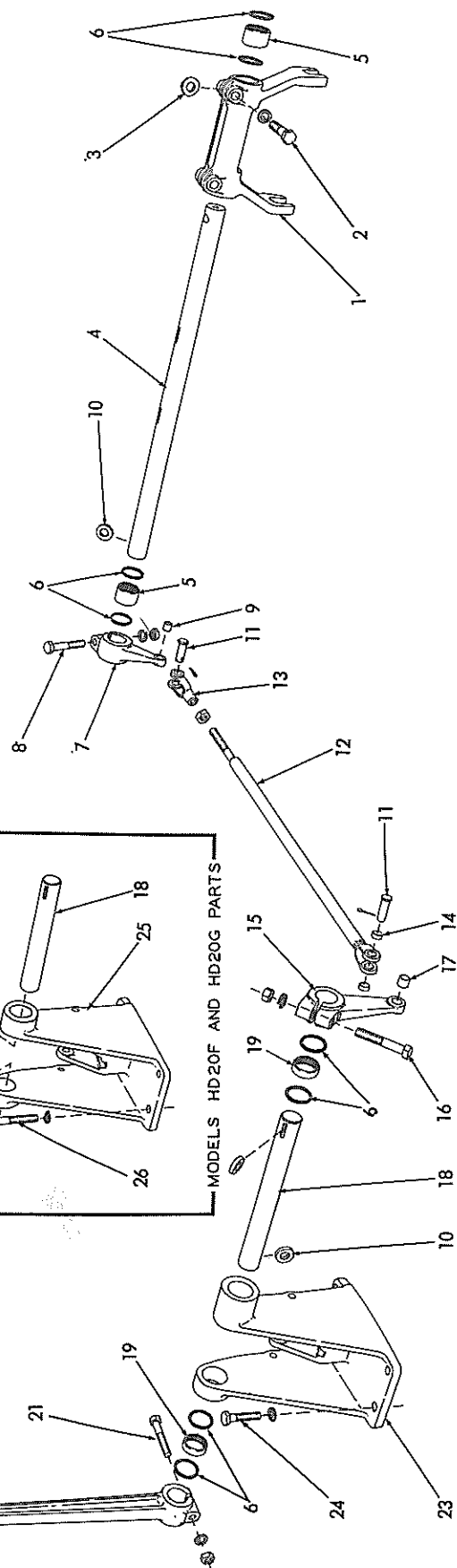
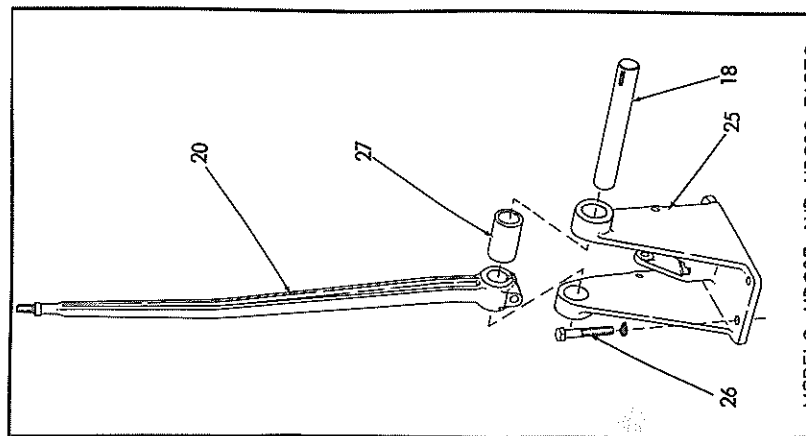
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	5182144	1	RING, retaining, pump shaft front bearing	
2	074348	1	BEARING, ball, pump shaft, front	
3	5182145	1	SPACER, pump shaft bearings	
4	064818	1	BEARING, ball, pump shaft, rear	
5	5182143	1	SHAFT, water pump	
6	5185749	1	BODY ASSEMBLY, pump (Includes item 7)(When making first re- placement on engines prior to #6B-2310 also order SEAL KIT 5193503)	
	901651	1	PLUG, pipe, 1/8"NPT	
	901653	1	PLUG, pipe, 3/8"NPT	
7	5176933	6	STUD (5/16"NC x 5/16"NF x 1.44")	
8	-----	1	INSERT, pump body (9/16" thick)(Engines prior to #6B-2310)(Not serviced. Order SEAL KIT 5193503)	
	-----	1	INSERT, pump body (5/16" thick)(Engines #6B-2310 thru #6B-2865 only)(Not serviced. Order items 10 and 11)	
9	5185754	1	WASHER, floating (carbon)(Engines #6B-2310 thru #6B-2865)	
10	5186197	1	RING, sealing (rubber)(Engines #6B-2866 and up)	5193503
11	5186198	1	WASHER, stationary insert (carbon)(Engines #6B-2866 and up)	5193503
12	074347	1	RING, seal retaining	5193503
13	-----	1	WASHER, seal (carbon)(Engines prior to #6B-2310)(Order SEAL KIT 5193503)	
	5185747	1	WASHER, seal (steel)(Engines #6B-2310 and up)	5193503
14	5185567	1	SEAL (rubber)	5193503
15	2001429	1	GUIDE, seal spring	5193503
16	2007128	1	RING, seal clamping	5193503
17	5185750	1	SPRING, seal	5193503
18	5183582	1	IMPELLER	
	915747	1	PIN, groove, 1/8" x 1"	



* Model HD20H and Model HD20F
 ** Model HD20G only

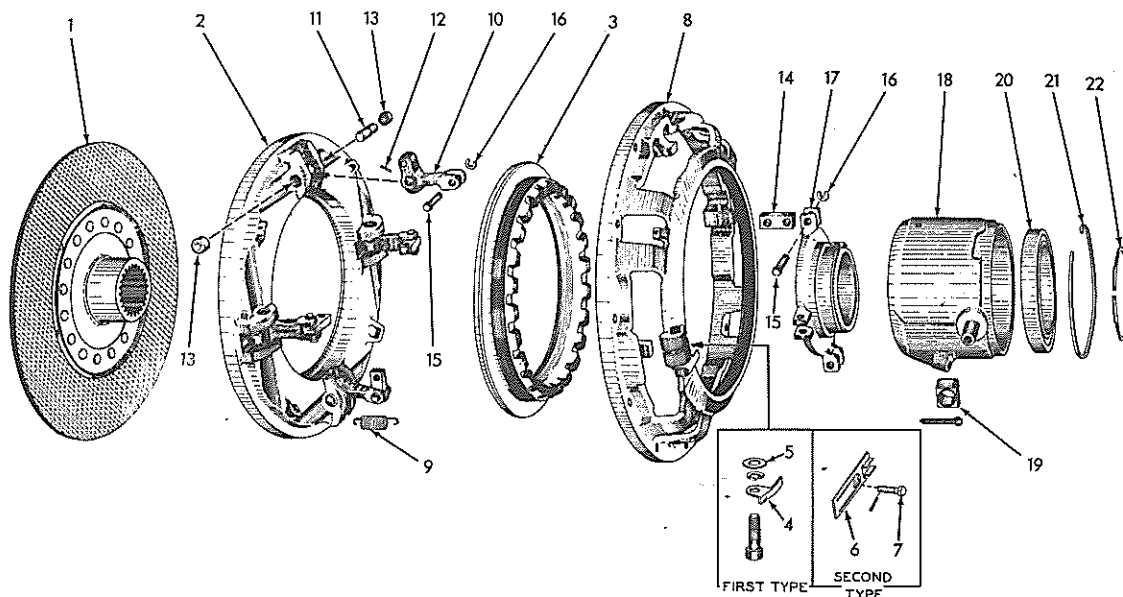
ITEM	PART NUMBER	QUANTITY	DESCRIPTION	KIT NUMBER
1	058860	1	CLUTCH ASSEMBLY, engine (See page 100 for repair parts)(Original equipment on all tractors. Not serviced. Order CLUTCH ASSEMBLY 082393)	
	082393	1	CLUTCH ASSEMBLY, engine (See page 100A for repair parts) (Used as service replacement for CLUTCH ASSEMBLY 058860)	
2	070960	12	CAPSCREW, 3/8"NC x 1-1/2"	
	904206	12	LOCKWASHER, 3/8"	
3	058918	1	HOSE ASSEMBLY, lubricating, shifting sleeve bearing (Includes 2 ELBOWS which are not serviced separately)	
	911049	1	NUT, jam, 5/8"NF	
	910543	1	LOCKWASHER, external teeth, 5/8"	
	914464	1	ELBOW, lubricating fitting, 45°, 1/8"NPT	
	915276	1	FITTING, lubricating, 90°, 1/8"NPT (Tractors prior to #3405)	
4	605794	1	ELBOW, lubricating fitting (90°, 1/8"NPT male and female ends) (Not used on Model HD20H tractors prior to #3405)	
5	058719	1	HOSE, lubricating, shifting sleeve bearing (22" long)(Not used on Model HD20H tractors prior to #3405 or on Model HD20G tractors #6019 and up)	
	076322	-	HOSE, lubricating, shifting sleeve bearing (31" long)(Model HD20G tractors serial No. 6019 and up)	
	911036	1	NUT, jam, 5/8"NC	
	914465	1	FITTING, lubricating, straight, 1/8"NPT	

NOTE: See PAINTING AND MARKING for adjustment instruction transfer which is applied to clutch inspection plate.



* Model HD20H
 ** Models HD20F and HD20G

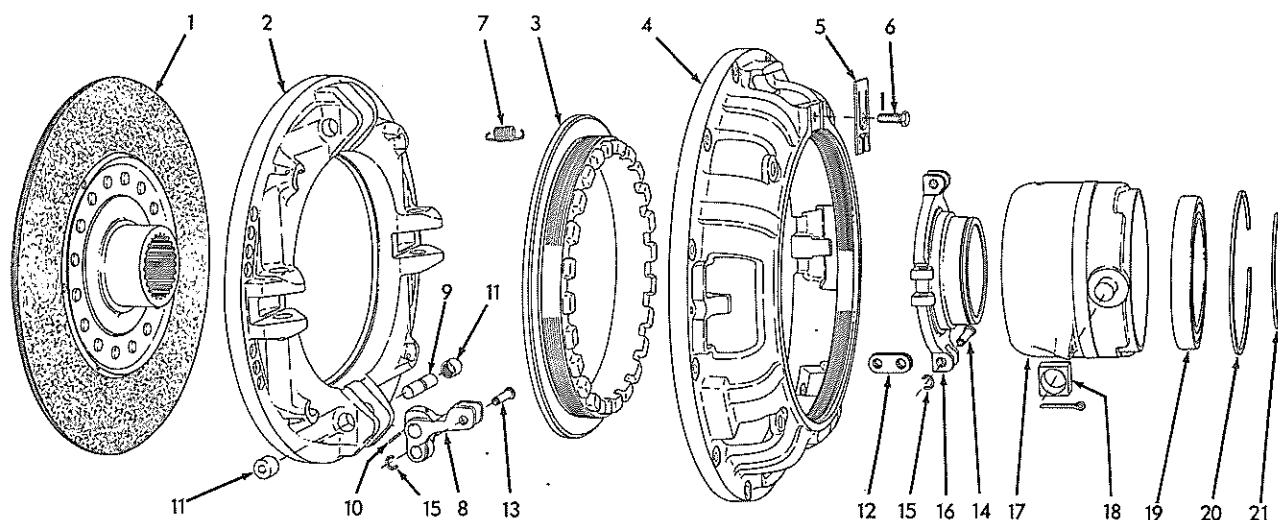
ITEM	PART NUMBER	QUANTITY	* **	DESCRIPTION	KIT NUMBER
1	054461	1	1	FORK, clutch shifting	
2	AM-8801	2	2	CAPSCREW, 1/2"NC x 2"	
	904208	2	2	LOCKWASHER, 1/2"	
3	052747	2	2	KEY, clutch shifting fork	
4	075775	1	1	SHAFT, shifting fork	
5	604435	2	2	BEARING, needle, shifting fork shaft	
6	053243	8	8	SEAL, dust, operating shafts	
7	052745	1	1	LEVER ASSEMBLY, clutch (Includes item 9)(Tractors prior to #6064)	
	082221	1	1	LEVER ASSEMBLY, clutch (Includes item 9)(Tractors #6064 and up)	
8	035278	1	1	CAPSCREW, 1/2"NF x 2-3/4"	
	904208	1	1	LOCKWASHER, 1/2"	
	911043	1	1	NUT, 1/2"NF	
9	049988	1	1	BUSHING, intermediate lever (steel)	
10	052747	3	3	KEY, control levers	
11	049993	2	2	PIN, control rod yokes	
	900805	2	2	PIN, cotter, 1/8" x 3/4"	
12	075600	1	1	ROD, control	
	911043	1	1	NUT, 1/2"NF	
13	068389	1	1	YOKE, control rod	
14	049991	2	2	BUSHING, control rod yoke (steel)(Tractors prior to #3108)	
15	052745	1	1	LEVER ASSEMBLY, intermediate (Includes item 17)	
16	035278	1	1	CAPSCREW, 1/2"NF x 2-3/4"	
	904208	1	1	LOCKWASHER, 1/2"	
	911043	1	1	NUT, 1/2"NF	
17	049988	1	1	BUSHING, clutch lever (steel)	
18	052744	1	-	SHAFT, operating lever (11-3/8" long)	
	074049	-	1	SHAFT, operating lever (8-9/16" long)	
19	053244	2	2	BEARING, needle, operating lever shafts	
20	052741	1	-	LEVER, operating	
	079321	-	1	LEVER, operating	
21	035278	1	1	CAPSCREW, 1/2"NF x 2-3/4"	
	911043	1	1	NUT, 1/2"NF	
	904208	1	1	LOCKWASHER, 1/2"	
22	052591	1	1	GRIP, operating lever	
23	058076	1	-	BRACKET, operating lever shaft	
24	035067	4	-	CAPSCREW, 1/2"NF x 2"	
	904208	4	-	LOCKWASHER, 1/2"	
25	074039	-	1	BRACKET, operating lever shaft	
26	070403	-	4	CAPSCREW, 1/2"NF x 3" (Not for HD20G #6019 and up)	
	035067	-	4	CAPSCREW, 1/2"NF x 2" (HD20G only starting with #6019)	
	904208	-	4	LOCKWASHER, 1/2"	
27	074051	-	1	SPACER, operating lever (2-11/16" long)	



CLUTCH ASSEMBLY 058860

NOTE: See page 97 for listing of complete Clutch Assembly.

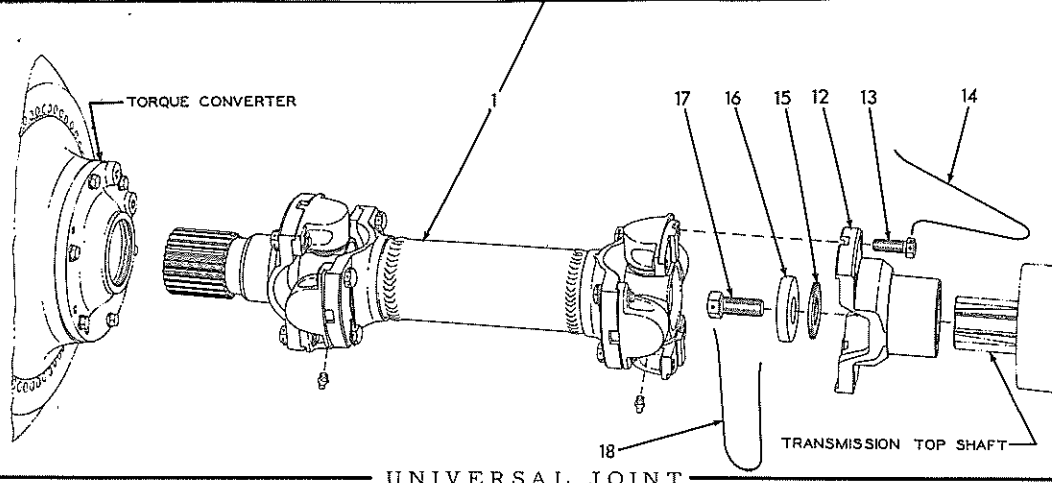
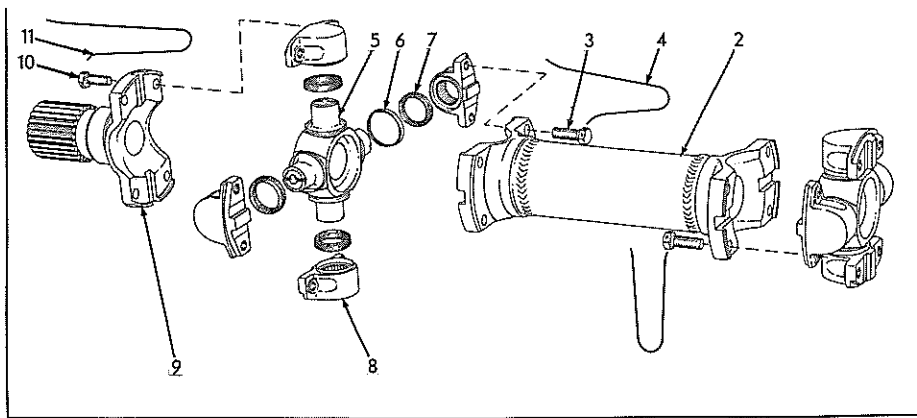
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	058667	1	PLATE ASSEMBLY, driven (Includes FACINGS which are not serviced separately)	
2	058864	1	PLATE, pressure	
3	058865	1	RING, adjusting	
4	058692	1	LOCK, adjusting ring (Tractors prior to #6064 excluding #6055)	
5	065552	1	WASHER, plain	
	912279	1	CAPSCREW, socket-hd., 1/2"NC x 1-3/4"	
	904208	1	LOCKWASHER, 1/2"	
6	082139	1	LOCK, adjusting ring (Tractors #6064 and up including #6055)	
7	082140	1	CAPSCREW, drilled-end, 3/16"NC x 1"	
	917735	1	PIN, roll, 3/32" x 9/16"	
8	-----	1	PLATE ASSEMBLY (Order COVER KIT 082149. When making first replacement on tractors prior to #6064 excluding #6055 also order 1 LEVER ASSEMBLY 082221)	082149
9	069203	4	SPRING, pressure plate retracting (Tractors prior to #6064 excluding #6055)	
	082148	4	SPRING, pressure plate retracting (Tractors #6064 and up, including #6055)	082149
10	058833	4	LEVER ASSEMBLY, pressure plate (Each includes 1 PIN and 1 BEARING which are not serviced separately)	
11	058873	4	PIN, pressure plate lever	
12	058832	4	PIN, locking, pressure plate lever pin	
13	058871	8	BEARING, needle, pressure plate lever pin	
14	058838	4	LINK, pressure plate lever	
15	058872	8	PIN, pressure plate lever link	
16	058691	8	RING, retaining, link pin	
17	058863	1	COLLAR, shifting sleeve	
18	058862	1	SLEEVE, shifting	
	900938	2	PIN, cotter, 3/16" x 1"	
19	054459	2	BLOCK, shifting sleeve	
20	054363	1	BEARING, ball, shifting sleeve	
21	054362	1	RING, retaining, shifting sleeve bearing (large)	
22	054364	1	RING, retaining, shifting sleeve bearing (small)	



CLUTCH ASSEMBLY 082393

NOTE: See page 97 for listing of complete Clutch Assembly.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	058867	1	PLATE ASSEMBLY, driven (Includes FACINGS which are not serviced separately)	
2	082464	1	PLATE, pressure	
3	058865	1	RING, adjusting	
4	082392	1	PLATE ASSEMBLY, back (Includes items 5 and 6)	
5	082139	1	LOCK, adjusting ring	
6	082140	1	CAPSCREW, drilled end, 3/8"NC x 1"	
	917735	1	PIN, roll, 3/32" x 9/16"	
7	082148	4	SPRING, pressure plate retracting	
8	082463	4	LEVER ASSEMBLY, pressure plate (Each includes 1 PIN and 1 BEARING which are not serviced separately)	
9	082502	4	PIN, pressure plate lever	
10	058832	4	PIN, locking, pressure plate lever pin	
11	082504	8	BEARING, needle, pressure plate lever pin	
12	082509	8	LINK, pressure plate lever	
13	058872	4	PIN, pressure plate lever	
14	082503	4	PIN, shifting sleeve collar	
15	058691	8	RING, retaining, pin	
16	082391	1	COLLAR, shifting sleeve	
17	058862	1	SLEEVE, shifting	
	900938	2	PIN, cotter, 3/16"x 1"	
18	054459	2	BLOCK, shifting sleeve	
19	054363	1	BEARING, ball, shifting sleeve	
20	054362	1	RING, retaining, shifting sleeve bearing (large)	
21	054364	1	RING, retaining, shifting sleeve bearing (small)	

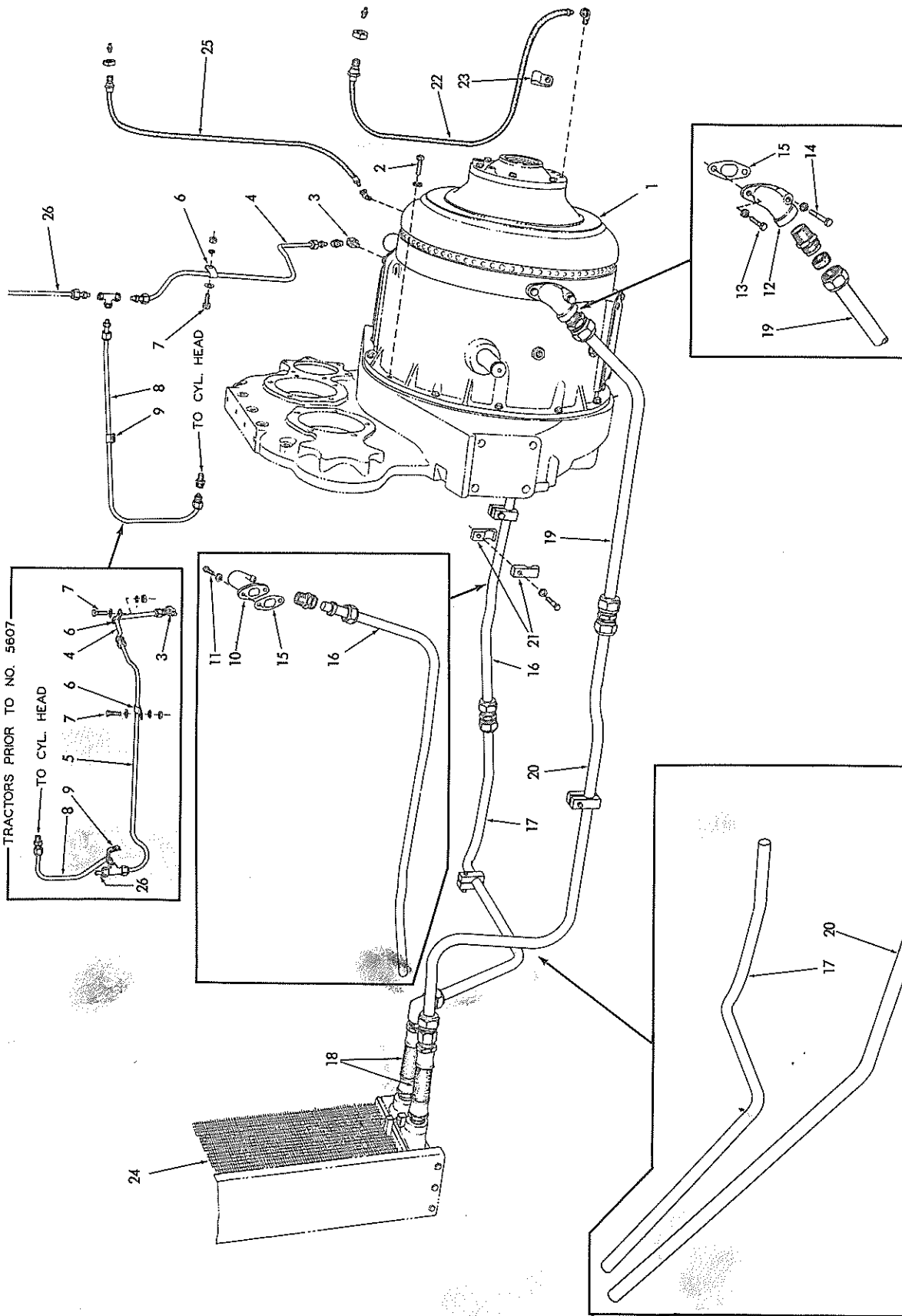


UNIVERSAL JOINT

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	073897	1	JOINT ASSEMBLY, universal, clutch to transmission (Consists of items 2 thru 11)	
	914465	2	FITTING, lubricating, straight, 1/8"NPT	
2	069966	1	TUBE, connecting	
3	035689	8	CAPSCREW (drilled-hd., 1/2"NF x 1-3/8")	
4	023633	4	WIRE, locking (1/16" x 12")	
5	069953	2	SPIDER ASSEMBLY (Includes item 6)	
6	069954	8	SHIELD, dust	
7	069965	8	WASHER, sealing, spider bearing	
8	069962	8	BEARING ASSEMBLY (Each includes 30 ROLLERS, 1 WASHER and 1 RETAINER)(Serviced only as a unit)	
9	074355	1	YOKE ASSEMBLY, front end (Includes cup PLUG)	
10	035689	4	CAPSCREW (drilled-hd., 1/2"NF x 1-3/8")	
11	023633	2	WIRE, locking (1/16" x 12")	
12	073896	1	YOKE, rear end	
13	035689	4	CAPSCREW (drilled-hd., 1/2"NF x 1-3/8")	
14	023633	2	WIRE, locking (1/16" x 12")	
15	052760	1	SEAL, yoke retaining washer (rubber)	
16	052761	1	WASHER, yoke retaining	
17	075950	1	CAPSCREW, yoke retaining (3/4"NF x 1-3/4", drilled-hd.)	
18	052770	1	LOCK, yoke retaining capscrew (Tractors prior to #3405)	
	023633	1	WIRE, locking, yoke retaining capscrew (1/16" x 12")(Tractors #3405 and up)	

TRACTORS PRIOR TO NO. 5607

TO CYL. HEAD



MODEL HD 20G PARTS

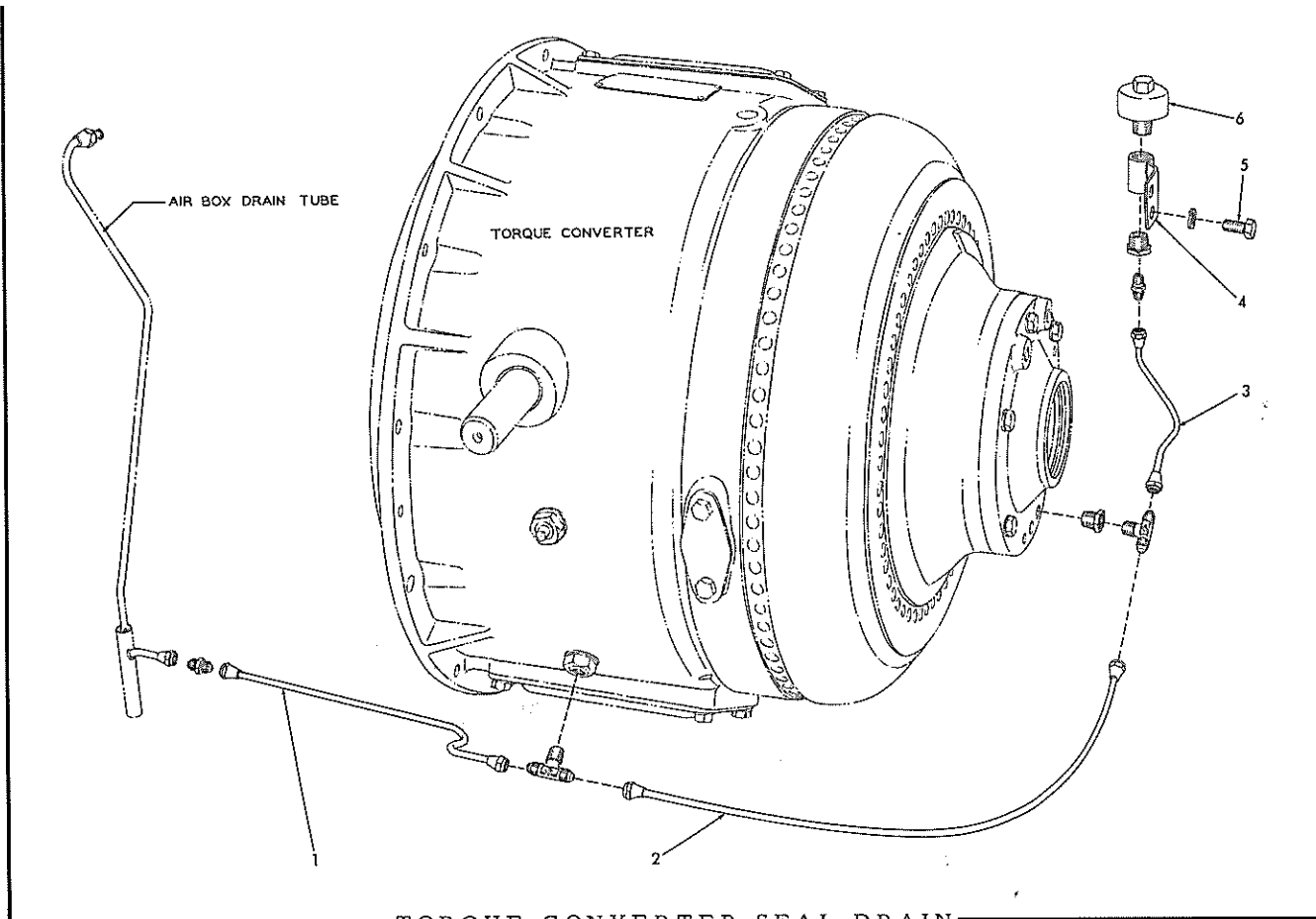
TORQUE CONVERTER AND PIPING

* Model HD20H
 ** Model HD20F
 *** Model HD20G

ITEM	PART NUMBER	QUANTITY			DESCRIPTION	KIT NUMBER
		*	**	***		
1	075774	1	1	1	CONVERTER ASSEMBLY, torque (Includes engine clutch throwout mechanism and grease hose. See page 107 for repair parts)	
2	013058	12	12	12	CAPSCREW, 3/8"NC x 1-1/4"	
	904206	12	12	12	LOCKWASHER, 3/8"	
3	047852	1	1	1	ELBOW, fluid supply tube	
4	074628	1	1	1	TUBE, fluid supply, rear section (Tractors prior to #5607)	
	079664	1	1	1	TUBE, fluid supply, rear section (Tractors #5607 and up)	
	915386	1	1	1	UNION, Sealastic, 3/8" tube (Tractors prior to #5607)	
	915371	1	1	1	TEE-UNION, Sealastic, 3/8" tube (Tractors #5607 and up)	
	915368	1	1	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male	
	915366	3	3	3	NUT, Sealastic fitting, 3/8" tube	
	915367	3	3	3	RING, Sealastic, 3/8" tube (Includes FERRULE)	
5	073134	1	1	1	TUBE, fluid supply, center section (Tractors prior to #5607)	
	915371	1	1	1	TEE-UNION, Sealastic, 3/8" tube	
	915366	3	3	3	NUT, Sealastic fitting, 3/8" tube	
	915367	3	3	3	RING, Sealastic, 3/8" tube (Includes FERRULE)	
6	040796	2	2	2	CLIP, fluid supply tube (closed type, 3/8" diam., 13/32" bolt-hole)(One less used on tractors #5607 and up)	
7	036034	2	2	2	CAPSCREW, 3/8"NF x 1"	
	911115	2	2	2	WASHER, plain, SAE std., 3/8"	
	904206	2	2	2	LOCKWASHER, 3/8"	
	911041	2	2	2	NUT, 3/8"NF	
8	074331	1	1	1	TUBE, fluid-supply, front section (Tractors prior to #3404)	
	075533	1	1	1	TUBE, fluid supply, front section (Tractors #3404 thru #5606)	
	079663	1	1	1	TUBE, fluid supply, front section (Tractors #5607 and up)	
	915368	1	1	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male	
	915366	1	1	1	NUT, Sealastic fitting, 3/8" tube	
	915367	1	1	1	RING, Sealastic, 3/8" tube (Includes FITTING)	
9	073284	1	1	1	CLIP, fluid supply tube (closed type, 3/8" diam., 15/32" bolt-hole)(Tractors prior to #5607)	
	043344	1	1	1	CLIP, fluid supply tube (closed type, 3/8" diam., 9/16" bolt- hole)(Tractors #5607 and up)	
10	053174	1	1	1	ELBOW, inlet	
11	035439	2	2	2	CAPSCREW, 3/8"NC x 1"	
	904206	2	2	2	LOCKWASHER, 3/8"	
12	058686	1	1	1	ELBOW, outlet	
13	035439	1	1	1	CAPSCREW, 3/8"NC x 1"	
	904206	1	1	1	LOCKWASHER, 3/8"	
14	058936	1	1	1	CAPSCREW, 3/8"NC x 2-3/4"	
	904206	1	1	1	LOCKWASHER, 3/8"	
15	053173	2	2	2	GASKET, elbow to converter	067705
16	073140	1	1	1	TUBE, radiator, right rear section	
	915534	1	1	1	CONNECTOR, Sealastic, 1" tube, 1"NPT male	
	915537	1	1	1	UNION, Sealastic, 1" tube	
	915536	3	3	3	NUT, Sealastic fitting, 1" tube	
	915535	3	3	3	RING, Sealastic, 1" tube (Includes FERRULE)	

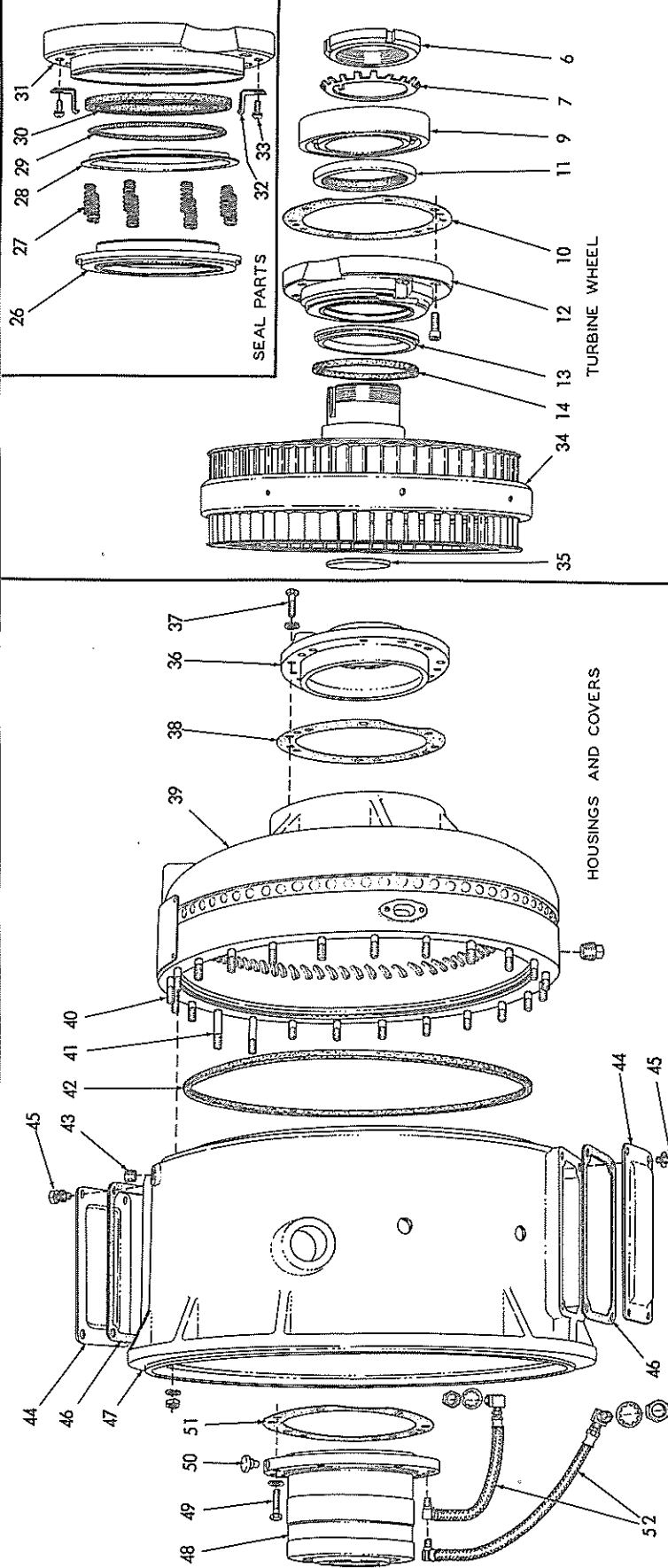
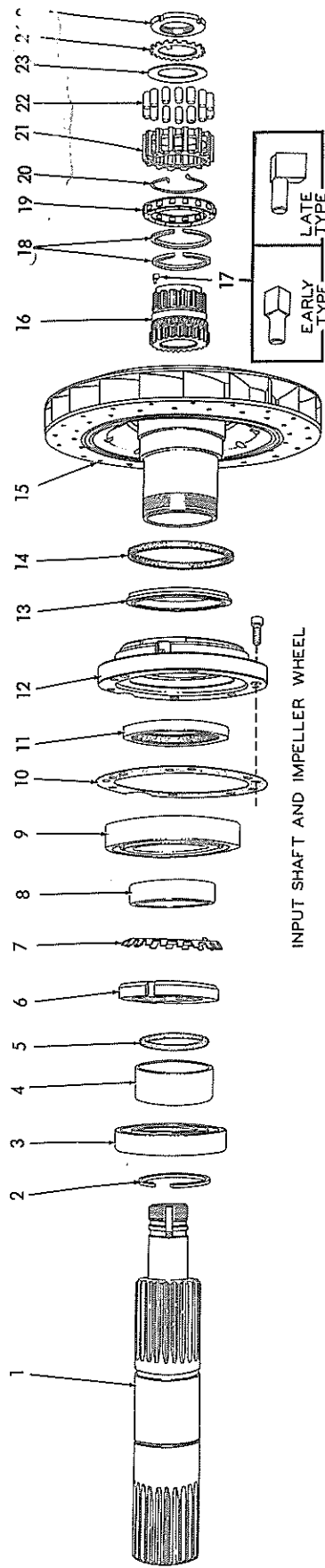
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ITEM	PART NUMBER	QUANTITY * ** ***			DESCRIPTION	KIT NUMBER
17	073138	1	1	-	TUBE, radiator, right front section	
	915913	1	1	-	ELBOW, Sealastic, 1" tube, 1"NPT female	
	915536	1	1	-	NUT, Sealastic fitting, 1" tube	
	915535	1	1	-	RING, Sealastic, 1" tube (Includes FERRULE)	
	074416	-	-	1	TUBE, radiator, right front section	
	915534	-	-	1	CONNECTOR, Sealastic, 1" tube, 1"NPT male	
	915536	-	-	1	NUT, Sealastic fitting, 1" tube	
	915535	-	-	1	RING, Sealastic, 1" tube (Includes FERRULE)	
18	074869	2	2	-	HOSE, radiator	
19	073137	1	1	1	TUBE, radiator, left rear section	
	915534	1	1	1	CONNECTOR, Sealastic, 1" tube, 1"NPT male	
	915537	1	1	1	UNION, Sealastic, 1" tube	
	915536	3	3	3	NUT, Sealastic fitting, 1" tube	
	915535	3	3	3	RING, Sealastic, 1" tube (Includes FERRULE)	
20	073139	1	1	-	TUBE, radiator, left front section	
	915912	1	1	-	CONNECTOR, Sealastic, 1" tube, 1"NPT female	
	915536	1	1	-	NUT, Sealastic fitting, 1" tube	
	915535	1	1	-	RING, Sealastic, 1" tube (Includes FERRULE)	
	074415	-	-	1	TUBE, radiator, left front section	
	915534	-	-	1	CONNECTOR, Sealastic, 1" tube, 1"NPT male	
	915536	-	-	1	NUT, Sealastic fitting, 1" tube	
	915535	-	-	1	RING, Sealastic, 1" tube (Includes FERRULE)	
21	044614	8	8	8	CLAMP, radiator tubes	
	913619	3	3	4	CAPSCREW, 3/8"NF x 2-1/4"	
	904281	1	1	-	CAPSCREW, 3/8"NC x 2-1/4"	
	904206	4	4	4	LOCKWASHER, 3/8"	
22	058719	1	-	-	HOSE, lubricating, torque converter rear bearing (22" long) (Tractors prior to #3405. Fitting end connects to floor plate)	
	076322	1	1	1	HOSE, lubricating, torque converter rear bearing (31" long) (Used on all Model HD20F tractors, Model HD20G tractors prior to #6019 and on Model HD20H tractors #3405 and up. Fitting end connects to dash)	
	074066	-	-	1	HOSE, lubricating, torque converter rear bearing (35" long) (Started with Model HD20G tractor #6019. Fitting end connects to TRACTOMOTIVE stabilizer)	
	907059	1	1	1	ELBOW, street, 90°, 1/8"NPT	
	911036	1	1	1	NUT, jam, 5/8"NC	
	914465	1	1	1	FITTING, lubricating, straight, 1/8"NPT	
	207091	1	1	1	CLIP, lubricating hose (closed type, 1/2" diam., 13/32" bolt hole)(Tractors prior to #3405)	
	-----	1	1	1	RADIATOR, fluid cooling (See pages 85, 87 and 89)	
25	915276	1	-	-	FITTING, lubricating, 90°, 1/8"NPT (Used prior to tractor #3405)	
	076322	1	1	1	HOSE, lubricating, torque converter front bearings (31" long) (Used on all Model HD20F tractors, Model HD20G tractors prior to #6019 and on Model HD20H tractors #3405 and up. Fitting end connects to dash)	
	074066	-	-	1	HOSE, lubricating, torque converter front bearings (35" long) (Started with Model HD20G tractor #6019. Fitting end connects to TRACTOMOTIVE stabilizer)	
	907059	1	1	1	ELBOW, street, 90°, 1/8"NPT	
	911036	1	1	1	NUT, jam, 5/8"NC	
	914465	1	1	1	FITTING, lubricating, straight, 1/8"NPT	
26	-----	1	1	1	TUBE, pressure gauge (See INSTRUMENTS)	



TORQUE CONVERTER SEAL DRAIN

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	074055	1	TUBE ASSEMBLY, front (13" long. Includes 2 NUTS 910906)	
	910906	2	NUT, flared, short, 3/16" tube	
	914475	1	UNION, flared, 3/16" tube	
	914474	1	TEE, flared, 3/16" tube, 1/8"NPT	
2	053178	1	TUBE ASSEMBLY, rear (18-1/4". Includes 2 NUTS 910906)	
	910906	2	NUT, flared, short, 3/16" tube	
	914474	1	TEE, flared, 3/16" tube, 1/8"NPT	
	901825	1	BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT	
3	053171	1	TUBE ASSEMBLY, breather (6-1/2" long. Includes 2 NUTS)	
	910905	1	CONNECTOR, flared, 3/16" tube, 1/8"NPT male	
	901838	1	BUSHING, pipe reducing, 3/8"NPT to 1/8"NPT	
4	053192	1	BRACKET, air breather	
5	035244	1	CAPSCREW, 3/8"NC x 3/4"	
	904206	1	LOCKWASHER, 3/8"	
6	050748	1	BREATHER, air	



NOTE: See page 103 for listing of complete Converter Assembly.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	079773	1	SHAFT, input	
2	052175	1	RING, snap, input shaft bearing	
3	067171	1	BEARING, ball, input shaft	
4	{ 052180	1	SPACER, input shaft bearing (Tractors prior to #5672)	
	{ 079772	1	SPACER, input shaft bearing (Tractors #5672 and up)	
5	{ 052167	1	GASKET, input shaft bearing spacer (Tractors prior to #5672)	
	{ 079771	1	RING, input shaft sealing (Tractors #5672 and up)	
6	052158	2	NUT, retaining, impeller and turbine wheel bearings	
7	052160	2	WASHER, locking, bearing retaining nut	
8	052179	1	SPACER, impeller wheel bearing	
9	052157	2	BEARING, ball, impeller and turbine wheels	
10	052168	2	GASKET, fluid seal	
11	052176	2	SEAL, oil	062164
12	064882	2	SEAL ASSEMBLY, fluid (Consists of item 11 and items 26 thru 33)	
	912267	12	CAPSCREW, socket-hd., 3/8"NC x 1"	
13	052174	2	RING, mating, fluid seal (carbon)	062164
14	052183	2	WASHER, sealing, fluid seal mating ring (rubber)	062164
15	079805	1	WHEEL, impeller <i>07 3245</i>	
16	-----	1	CAM, over-running clutch (Order KIT 067705)	067705
17	{ 067710	1	PIN, stop, clutch roller cage (sq-hd.)(Tractors prior to #5373, except #5366)	
	{ 076839	1	PIN, stop, clutch roller cage (elongated off-set hd.)(Tractors #5373 and up, including #5366)	067705
18	067704	2	RING, snap, over-running clutch cam	067705
19	069770	1	ROLLER ASSEMBLY, over-running clutch bearing	067705
20	067706	1	SPRING, clutch roller cage	067705
21	-----	1	CAGE, clutch rollers (Order KIT 067705)	067705
22	-----	14	ROLLER, clutch (Order KIT 067705)	067705
23	052184	1	WASHER, retaining, over-running clutch	067705
24	030123	1	WASHER, locking, input shaft nut	067705
25	030107	1	NUT, input shaft	
26	-----	2	NOSE-PIECE, fluid seal (Not serviced. Order SEAL KIT 062164) . . .	062164
27	058717	16	SPRING, fluid seal	062164
28	055278	2	WASHER, retaining, fluid seal element	062164
29	057269	2	SPRING, clamping, fluid seal element	062164
30	057270	2	ELEMENT, fluid seal (rubber)	062164
31	-----	2	CARRIER, fluid seal (Not serviced. Order item 12)	

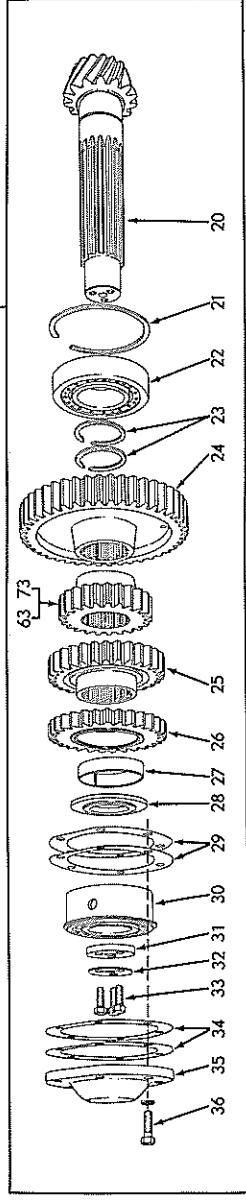
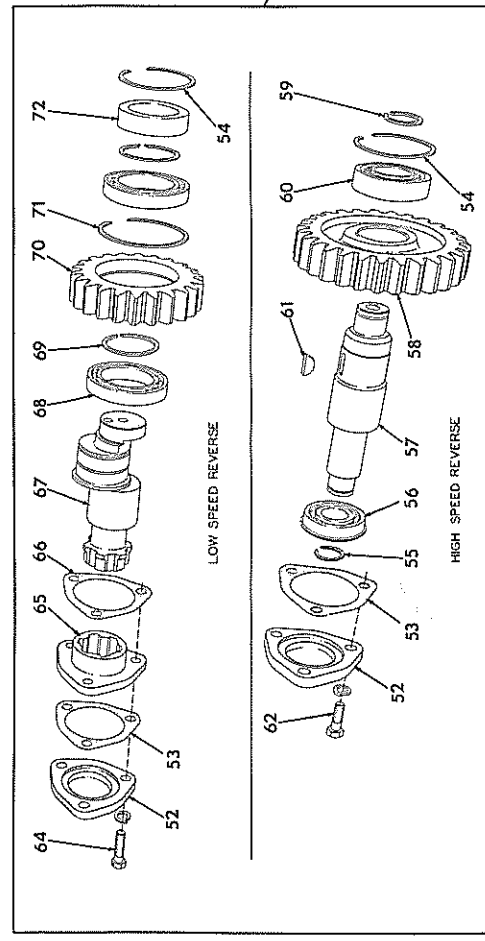
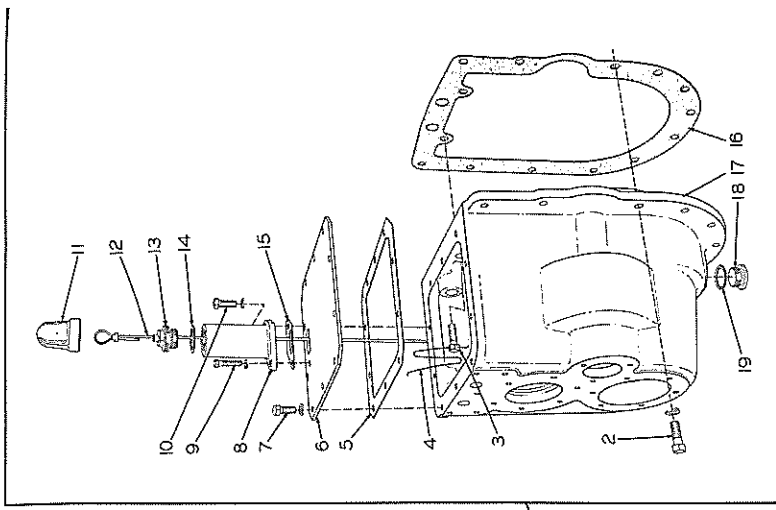
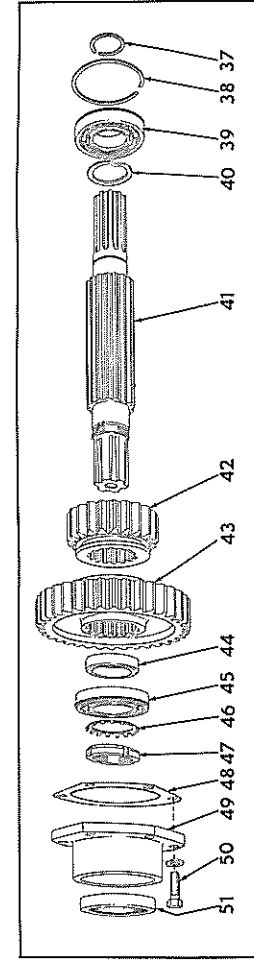
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ITEM	NUMBER	QTY.	DESCRIPTION	KIT NUMBER
32	057268	4	CLIP, retaining, fluid seal nose piece	062164
33	057267	4	CAPSCREW ASSEMBLY (Includes LOCKWASHER)	062164
34	058698	1	WHEEL ASSEMBLY, turbine (Includes item 35)(See EXCHANGE OFFER below) <i>670660</i>	
35	052172	1	PLUG, turbine wheel	
36	058819	1	RETAINER, turbine wheel bearing	
37	013058	6	CAPSCREW, 3/8"NC x 1-1/4"	
	904206	6	LOCKWASHER, 3/8"	
38	052168	1	GASKET, bearing retainer	
39	058695	1	HOUSING ASSEMBLY, turbine (Blades are not serviced separately)	
	069214	1	HOUSING ASSEMBLY, turbine (Reconditioned. See Parts Bulletin No. 1-18 and Service Bulletin No. 16 for plans of reconditioning used housings)	
	912725	1	PLUG, pipe, 1/2"NPT	
40	052181	22	STUD (3/8"NC x 3/8"NF x 1-3/4")	
41	052182	2	STUD (3/8"NC x 3/8"NF x 2-3/4")	
	911041	24	NUT, 3/8"NF	
	904206	24	LOCKWASHER, 3/8"	
42	052166	1	GASKET, turbine housing	067705
43	051496	1	PLUG, thread protecting, clutch housing (5/8"NC)	
44	057639	2	PLATE, inspection	
45	035244	8	CAPSCREW, 3/8"NC x 3/4"	
	904206	4	LOCKWASHER, 3/8"	
46	057629	2	GASKET, inspection plate	
47	067151	1	HOUSING ASSEMBLY, clutch (Includes 1 PLUG 910230)	
	910230	1	PLUG, pipe, slotted-hd., 1/8"NPT	
48	067147	1	CARRIER, input shaft bearing	
49	013058	6	CAPSCREW, 3/8"NC x 1-1/4"	
	904206	6	LOCKWASHER, 3/8"	
50	605132	1	VENT, air, input shaft bearing carrier	
51	052168	1	GASKET, input shaft bearing carrier	
52	058918	2	HOSE ASSEMBLY, greasing and draining (Includes 2 ELBOWS. Serviced only as a unit)	
	911049	2	NUT, jam, 5/8"NF	
	910543	2	LOCKWASHER, external teeth, 5/8"	

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. The USED Wheel Assembly is identified as Part No. 061799 and the amount of allowable credit is indicated in the Repair Parts Price List under this number.

ITEM	PAK1 NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	052052	1	TRANSMISSION ASSEMBLY (Consists of items 2 thru 63)(Model HD20H)	
	077143	1	TRANSMISSION ASSEMBLY (Consists of items 2 thru 54 and items 64 thru 73)(Models HD20F and HD20G)	
2	035229	12	CAPSCREW, 5/8"NF x 2"	
	904209	12	LOCKWASHER, 5/8"	
3	070162	2	CAPSCREW (drilled-hd., 5/8"NF x 1-3/4")	
4	023756	1	WIRE, locking (1/16" x 26")	
5	052598	1	GASKET, case cover	069627
6	052653	1	COVER, transmission case	
7	035220	6	CAPSCREW, 1/2"NC x 1-1/8"	
	904208	6	LOCKWASHER, 1/2"	
8	052654	1	PIPE, filler	
9	035336	1	CAPSCREW, 3/8"NF x 1-3/4"	
	904206	1	LOCKWASHER, 3/8"	
10	035190	1	CAPSCREW, 1/2"NC x 1-1/2"	
	904208	1	LOCKWASHER, 1/2"	
11	034265	1	CAP, oil filler pipe	
12	034304	1	ROD, oil level gauge	
13	034268	1	PLUG, oil filler pipe	
14	034269	1	GASKET, oil filler pipe plug	
15	052651	1	GASKET, filler pipe	
16	058363	1	GASKET, transmission to steering clutch housing	069627
17	052539	1	CASE, transmission	
18	035250	1	PLUG, drain	
19	035249	1	GASKET, drain plug	069627
20	052030	1	PINION AND SHAFT (14 bevel teeth)(Model HD20H)	
	068912	1	PINION AND SHAFT (12 bevel teeth)(Models HD20F and HD20G)	
21	052375	1	RING, snap, pinion shaft rear bearing	
22	052058	1	BEARING, roller, pinion shaft, rear	
23	052132	2	RING, snap, pinion shaft	
24	051828	1	GEAR, low speed, pinion shaft (44 teeth)	
25	052047	1	PINION, high speed, pinion shaft (29 teeth)	
26	054510	1	GEAR ASSEMBLY, oil slinging, pinion shaft (29 teeth)(Includes item 27)	
27	054509	1	BUSHING, oil slinging gear	
28	052223	1	WASHER, thrust, oil slinging gear	
29	052515	3	SHIM, bevel pinion mesh adjustment (.005" thick. Use as req'd)	
	052219	4	SHIM, bevel pinion mesh adjustment (.007" thick. Use as req'd)	
30	052031	1	BEARING, ball, pinion shaft, front (Includes snap RING)	
31	052243	1	WASHER, end, pinion shaft	
32	052244	1	WASHER, locking, pinion shaft capscREW	
33	070469	3	CAPSCREW, pinion shaft (1/2"NF x 1-1/4")	

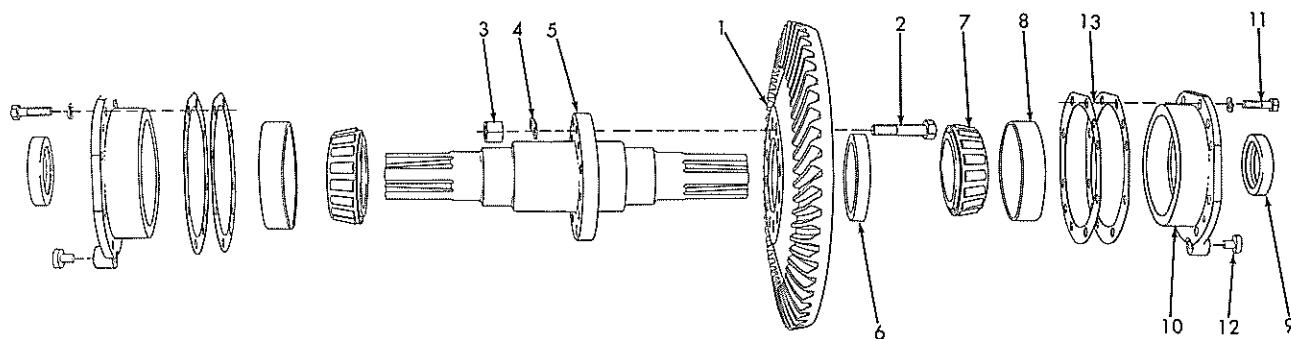
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ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
34	052216	1	SHIM, pinion shaft end play adjustment (.005" thick. Use as req'd)	
	053012	2	SHIM, pinion shaft end play adjustment (.007" thick. Use as req'd)	
35	052151	1	RETAINER, pinion shaft front bearing (See page 196 for special Housing used when ODOMETER is installed)	
36	035190	6	CAPSCREW, 1/2"NC x 1-1/2"	
	904208	6	LOCKWASHER, 1/2"	
37	049899	1	RING, snap, top shaft	
38	048704	1	RING, snap, top shaft rear bearing	
39	052057	1	BEARING, roller, top shaft, rear	
40	064850	1	WASHER, spacing, top shaft rear bearing (grooved)	
41	065339	1	SHAFT, top	
42	051985	1	PINION, low speed and reverse, top shaft (21 teeth)	
43	065690	1	GEAR, high speed, top shaft (36 teeth)	
44	052084	1	SPACER, top shaft front bearing	
45	052102	1	BEARING, ball, top shaft, front (Includes snap RING)	
46	052246	1	WASHER, locking, top shaft nut	
47	204980	1	NUT, top shaft	
48	052475	1	GASKET, top shaft front bearing retainer	069627
49	052214	1	RETAINER, top shaft front bearing	
	035190	6	CAPSCREW, 1/2"NC x 1-1/2"	
	904208	6	LOCKWASHER, 1/2"	
51	051461	1	SEAL, oil, top shaft, front	
52	052449	1	RETAINER, reverse shaft front bearing	
53	052476	1	GASKET, reverse shaft front bearing retainer	069627
54	052374	1	RING, snap, reverse shaft rear bearing	
NOTE: Items 55 thru 63 comprise the HIGH SPEED REVERSE ARRANGEMENT as used on all standard Model HD20H tractors and on standard Model HD20F tractors prior to serial No. 3964 and on standard Model HD20G trac- tors prior to serial No. 3999.				
55	052224	1	RING, snap, reverse shaft, front	
56	052076	1	BEARING, ball, reverse shaft, front (Includes snap RING)	
57	078043	1	SHAFT, reverse (For tractors prior to #4776 also order 1 KEY 049149)	
58	051773	1	GEAR, reverse shaft (27 teeth)	
59	052225	1	RING, snap, reverse shaft, rear	
60	052049	1	BEARING, roller, reverse shaft, rear	
61	059104	1	KEY, reverse gear (straight, 5/16" x 1-5/8")(Tractors prior to #4776)	
	049149	1	KEY, reverse gear (Woodruff, 5/16" x 1-1/8")(Tractors #4776 and up)	
62	035190	3	CAPSCREW, reverse shaft front bearing retainer (1-1/2" long)	
	904208	3	LOCKWASHER, 1/2"	

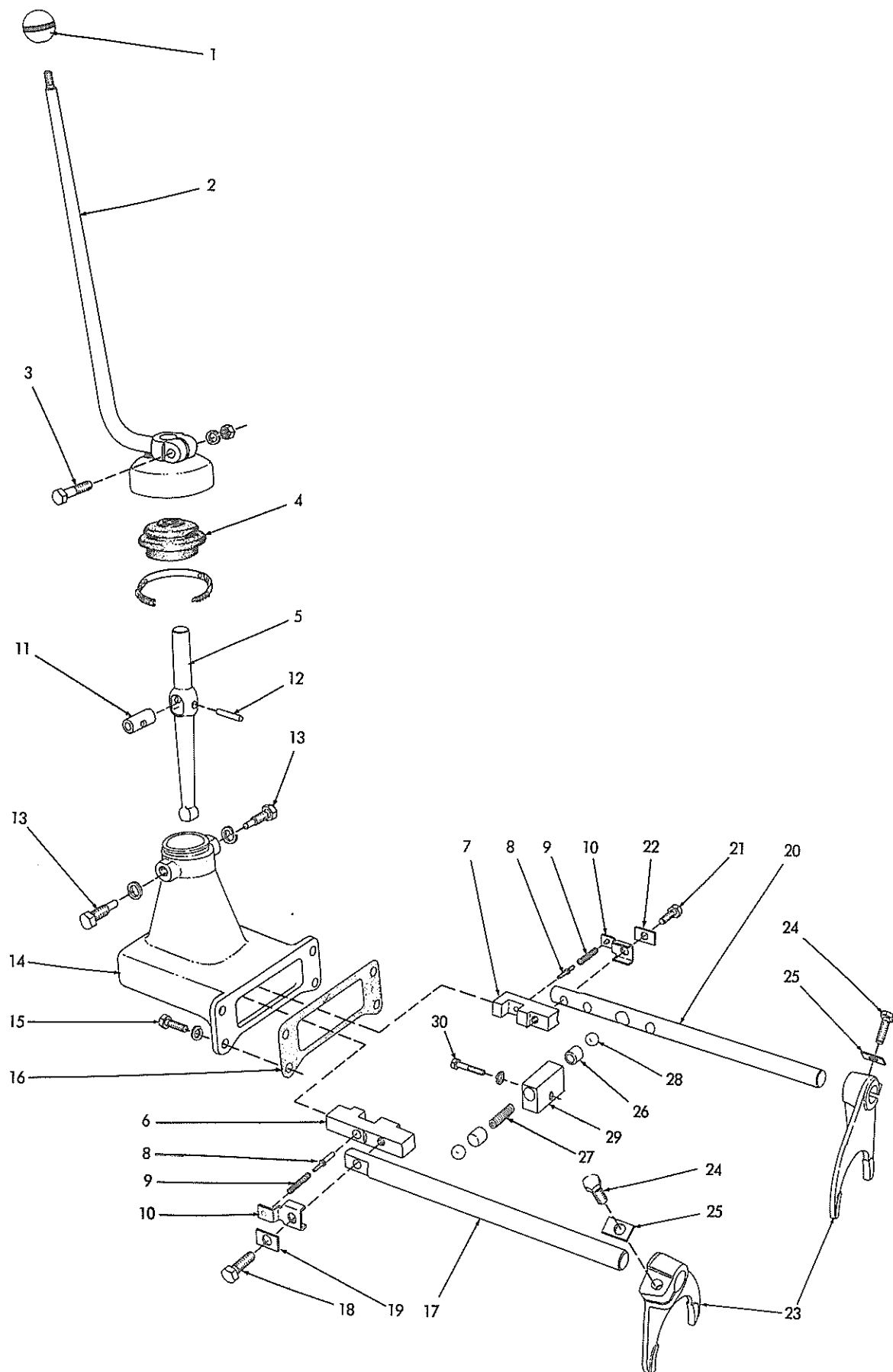
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ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
63	052051	1	GEAR, reverse, pinion shaft (23 teeth)	
			NOTE: Items 64 thru 73 comprise the LOW SPEED REVERSE ARRANGEMENT furnished as optional equipment on Model HD20H tractors, Model HD20F tractors prior to serial No. 3964 and on Model HD20G tractors prior to No. 3999. Standard equipment starting with Model HD20F tractor No. 3964 and Model HD20G tractor No. 3999. For conversion of tractors in the field order TRANSMISSION KIT 067381.	
64	AM-8801	3	CAPSCREW, reverse shaft hub retaining (2" long)	067381
	904208	3	LOCKWASHER, 1/2"	067381
65	065517	1	HUB, reverse shaft	067381
66	052476	1	GASKET, reverse shaft hub	067381 069627
67	065516	1	SHAFT, reverse	067381
68	057773	2	BEARING, ball, reverse shaft gear	067381
69	065512	2	RING, snap, reverse shaft	067381
70	065518	1	GEAR, reverse shaft (22 teeth)	067381
71	065513	1	RING, snap, reverse shaft gear	067381
72	065514	1	RING, adapting, reverse shaft	067381
73	065519	1	GEAR, reverse, pinion shaft (31 teeth)	067381



BEVEL GEAR AND SHAFT

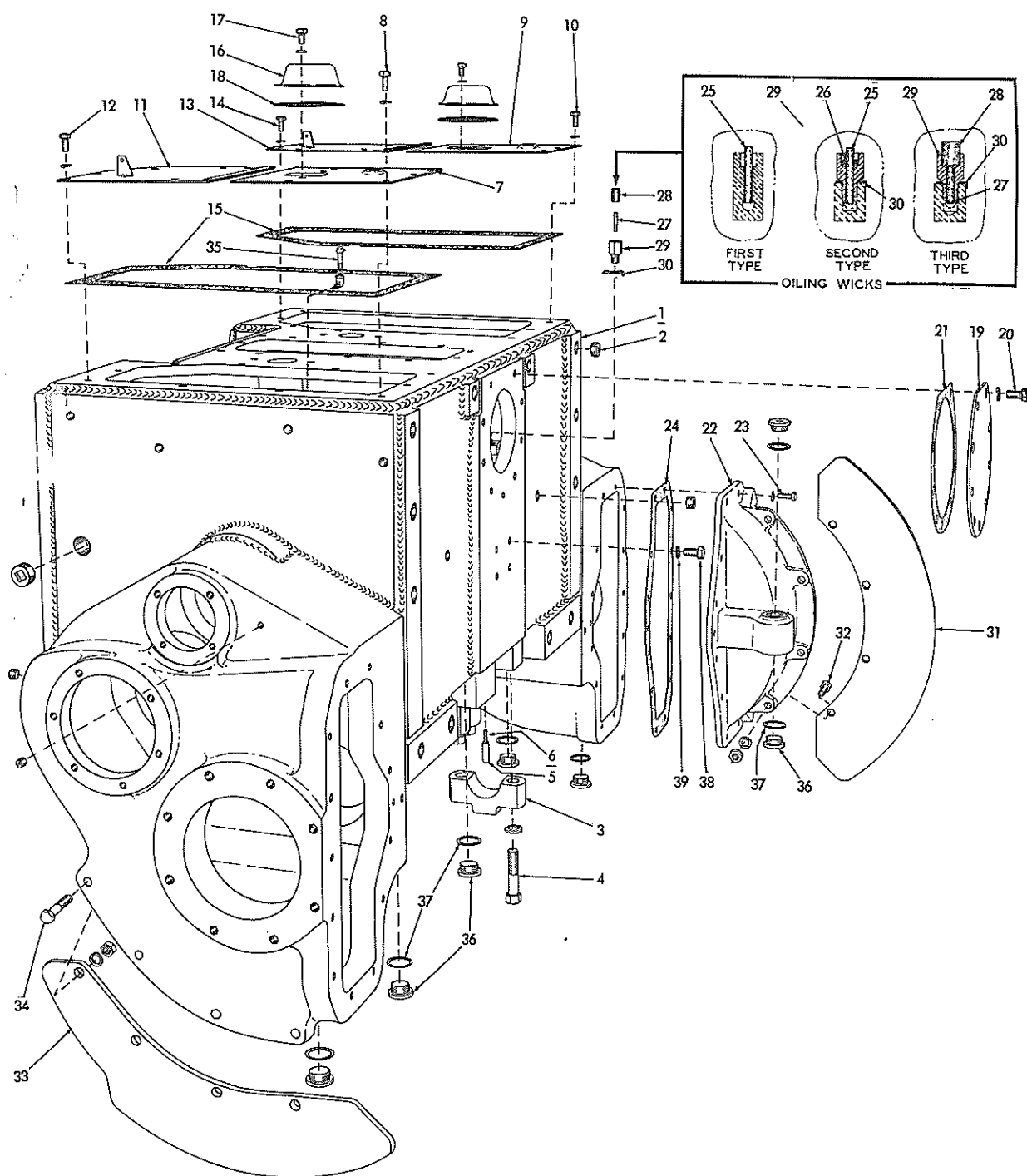
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	067322	1	GEAR, bevel (52 teeth)(For Model HD20H. Used with 14-tooth pinion)	
	068913	1	GEAR, bevel (52 teeth)(For Models HD20F and HD20G. Used with 12-tooth pinion)	
2	060911	12	CAPSCREW (3/4"NF x 3-1/4")	
3	012767	12	NUT, high, 3/4"NF	
4	067325	6	PLATE, locking	
5	067323	1	SHAFT, bevel gear	
6	067324	1	RING, locking, bevel gear capscrew	
7	051997	2	CONE ASSEMBLY, shaft bearing	
8	042877	2	CUP, shaft bearing	
9	052392	2	SEAL, oil	
10	067373	2	CAGE ASSEMBLY, bearing (Includes item 12)	
11	035073	16	CAPSCREW, 1/2"NF x 1-3/4"	
	904208	16	LOCKWASHER, 1/2"	
12	052125	2	PIN, wear, bearing retainer	
13	067483	12	SHIM, bearing adjustment (.005" thick. Use as req'd)	
	067484	10	SHIM, bearing adjustment (.007" thick. Use as req'd)	
	067485	4	SHIM, bearing adjustment (.030" thick. Use as req'd)	



GEAR SHIFT

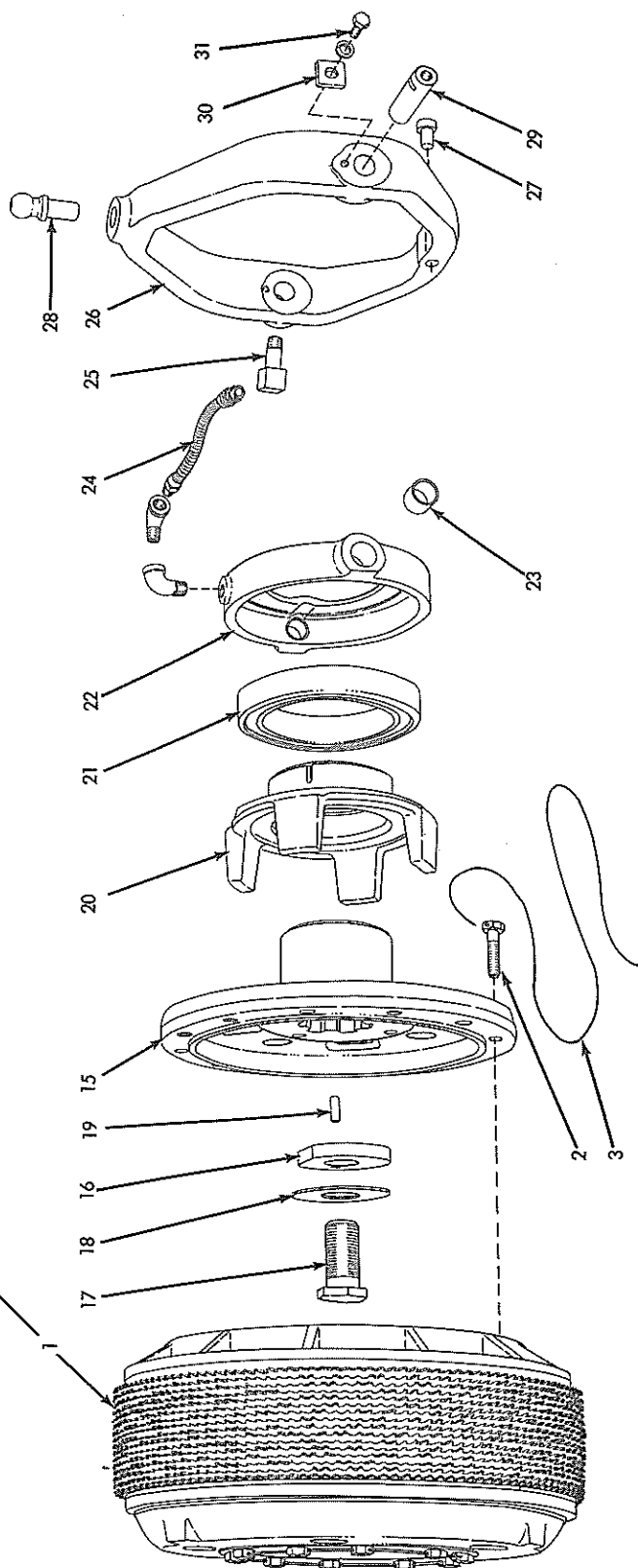
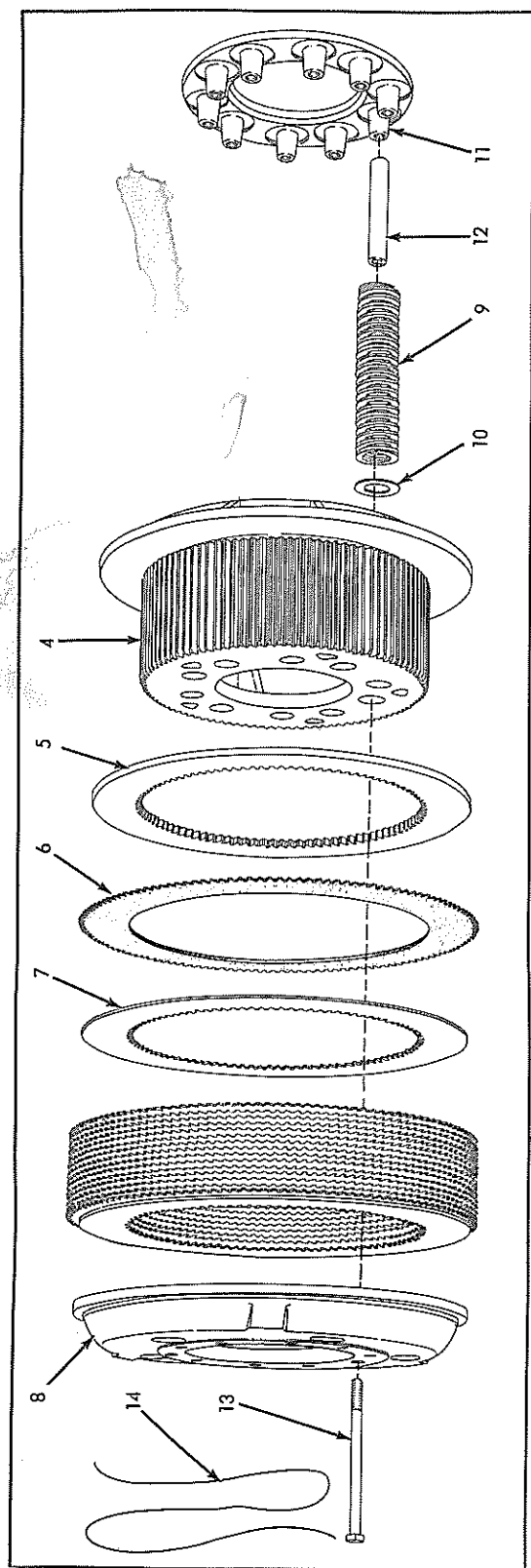
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	U-171	1	BALL, shifting lever	
2	059108	1	LEVER, shifting, upper section	
3	035068	1	CAPSCREW, 1/2"NF x 2-1/4"	
	911043	1	NUT, 1/2"NF	
	904208	1	LOCKWASHER, 1/2"	
4	078742	1	BOOT, shifting lever	
	916995	1	CLAMP, hose, 3" I.D.	
5	065258	1	LEVER, shifting, lower section	
6	065262	1	BLOCK, left shifting fork shaft	
7	065257	1	BLOCK, right shifting fork shaft	
8	065256	2	PIN, gear shift lock	
9	036422	2	SPRING, gear shift lock	
10	065260	2	CLIP ASSEMBLY, spring retaining (includes riveted PIN)	
11	049964	1	SHAFT, pivot, gear shifting lever	
12	049963	1	PIN, shifting lever pivot shaft	
13	049962	2	SCREW, pivot, shifting lever shaft (dog-pt., 5/8"NC x 2")	
	904209	2	LOCKWASHER, 5/8"	
14	052447	1	HOUSING, shifting lever	
15	035733	4	CAPSCREW, 1/2"NC x 1-3/8"	
	904208	4	LOCKWASHER, 1/2"	
16	052478	1	GASKET, shifting lever housing	069627
17	052645	1	SHAFT, shifting fork, left	
18	035018	1	CAPSCREW, 1/2"NF x 1-1/2"	
19	029752	1	LOCK, capscREW	
20	052650	1	SHAFT, shifting fork, right	
21	035018	1	CAPSCREW, 1/2"NF x 1-1/2"	
22	029752	1	LOCK, capscREW	
23	052691	2	FORK, shifting	
24	035018	2	CAPSCREW, 1/2"NF x 1-1/2"	
25	029752	2	LOCK, capscREW	
26	052655	2	PLUNGER, locking, shifting fork shaft	
27	037195	1	SPRING, locking plunger	
28	905367	2	BALL, steel, 3/4" diam.	
29	052657	1	BLOCK, shifting shaft locking plunger	
30	053616	1	CAPSCREW, 3/8"NC x 1-3/4"	
	904206	1	LOCKWASHER, 3/8"	

NOTE: See PAINTING AND MARKING for gear shift diagram
which is attached to front of Cowl.

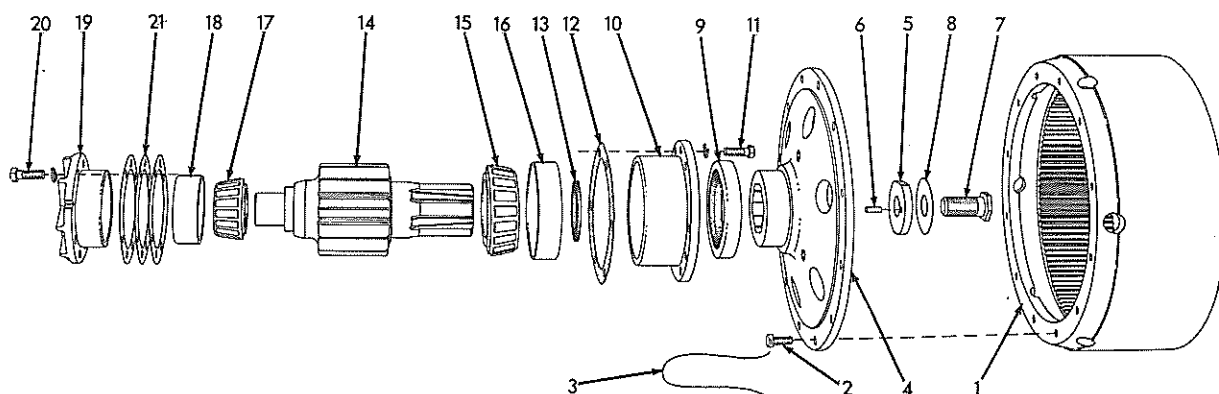


STEERING CLUTCH AND FINAL DRIVE HOUSING

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	067521	1	HOUSING ASSEMBLY (Includes items 3 thru 6)(When required for tractors prior to approx. #3674 also order items 27 thru 30)	
	904223	2	PLUG, pipe, ctsk-hd., 1/2"NPT	
	904224	2	PLUG, pipe, ctsk-hd., 3/4"NPT	
	901667	2	PLUG, pipe, ctsk-hd., 1-1/4"NPT	
	911081	2	PLUG, pipe, slotted-hd., 1/4"NPT	
2	052979	6	PLUG, thread protecting (1-1/4"NF, socket-hd.)	
3	058019	4	CAP, truck frame pivot shaft	
4	073424	8	CAPSCREW, 1"NF x 4"	
	910916	8	LOCKWASHER, 1"	
5	076726	2	WICK ASSEMBLY, pivot shaft lubricating (Consists of 1 PIN and 1 WICK 050357)(Also serves as dowel pin for pivot shaft)	
6	050357	2	WICK, pivot shaft lubricating	
7	052681	1	COVER, left steering clutch compartment, rear section	
8	070467	5	CAPSCREW, 1/2"NF x 1"	
	904208	5	LOCKWASHER, 1/2"	
9	052682	1	COVER, right steering clutch compartment, rear section	
10	070467	5	CAPSCREW, 1/2"NF x 1"	
	904208	5	LOCKWASHER, 1/2"	
11	065775	1	COVER, left steering clutch compartment, front section	
12	070467	5	CAPSCREW, 1/2"NF x 1"	
	904208	5	LOCKWASHER, 1/2"	
13	065776	1	COVER, right steering clutch compartment, front section	
14	070467	5	CAPSCREW, 1/2"NF x 1"	
	904208	5	LOCKWASHER, 1/2"	
15	054723	2	GASKET, steering clutch compartment covers	069626
16	052922	2	COVER, brake band adjusting nut	
17	067480	4	CAPSCREW, 1/2"NF x 3/4"	
	904208	4	LOCKWASHER, 1/2"	
18	066596	2	GASKET, brake band adjusting nut cover	069626
19	052977	1	COVER, bevel gear compartment (Power take-off opening)	
20	070590	9	CAPSCREW, 5/8"NF x 1-1/8"	
	904209	9	LOCKWASHER, 5/8"	
21	052976	1	GASKET, bevel gear compartment cover	069626
22	066598	2	COVER, final drive compartment	
23	035018	28	CAPSCREW, 1/2"NF x 1-1/2"	
	904208	28	LOCKWASHER, 1/2"	
24	052978	2	GASKET, final drive compartment cover	069626
25	065781	2	WICK, oiling, steering clutch throwout bearing (felt, 5/16" diam. x 2-1/4" long)(Used prior to #6063)	
26	-----	2	WASHER, oiling wick (felt)(Used approx. on tractors #3674 thru #6062. Not serviced. Order items 27 and 28)	
27	082727	2	WICK, oiling, steering clutch throwout bearing, lower (felt, 5/16" diam. x 1-1/2" long)(Used on tractors #6063 and up)	
28	082726	2	WICK, oiling, steering clutch throwout bearing, upper (felt, 3/4" diam. x 1" long)(Used on tractors #6063 and up)	
29	075434	2	HOLDER, oiling wick (Started approx. on tractor #3674)	
30	075432	2	LOCK, oiling wick holder (Started approx on tractor #3674)	
31	066599	2	GUARD, track sprocket, upper	
32	035248	8	CAPSCREW, 5/8"NF x 2-1/4"	
	911044	8	NUT, 5/8"NF	
	904209	8	LOCKWASHER, 5/8"	
33	052683	2	GUARD, track sprocket, lower	
34	023618	8	CAPSCREW, 5/8"NF x 2-1/2"	
	911044	8	NUT, 5/8"NF	
	904209	8	LOCKWASHER, 5/8"	
35	051447	2	BREATHER ASSEMBLY, final drive compartment (Serviced only as a unit)	
	907059	2	ELBOW, street, 90°, 1/8"NPT	
36	035250	9	PLUG, filling and drain	
37	035249	9	GASKET, filling and drain plugs	069626
38	070590	9	CAPSCREW, 5/8"NF x 1-1/8"	

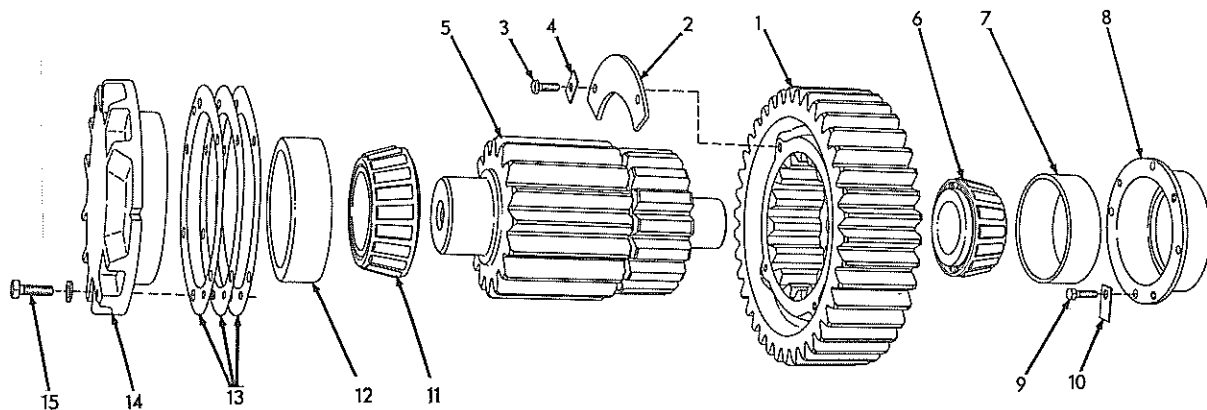


ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	052094	2	CLUTCH ASSEMBLY, steering (Consists of items 4 thru 14)	
2	035814	24	CAPSCREW (drilled-hd., 1/2"NC x 1-3/4")	
3	023633	12	WIRE, locking (1/16" x 12")	
4	051949	2	HUB, steering clutch	
5	052117	2	PLATE, back	
6	051953	32	DISC, friction (bimetallic)	
7	051952	34	DISC, friction (steel)	
8	054809	2	PLATE, pressure	
9	052116	20	SPRING, pressure	
10	049105	20	WASHER, spring insulating	
11	051836	2	PLATE, throwout	
12	052118	20	SPACER, throwout plate	
13	052119	20	CAPSCREW, throwout plate (drilled-hd., 1/2 NF x 6-1/2")	
14	052519	2	WIRE, locking (1/16" x 39")	
15	051954	2	HUB, driving	
16	052072	2	WASHER ASSEMBLY, hub retaining (Includes item 19)	
17	071085	2	BOLT (thin-hd., 1-1/4"NF x 2-1/2")	
18	064869	2	WASHER, locking	
19	052066	2	PIN, hub retaining washer	
20	051970	2	SLEEVE, throwout	
21	059747	2	BEARING, ball, clutch throwout	
22	051955	2	CAGE ASSEMBLY, throwout bearing (Includes item 23)	
23	051957	4	BUSHING, pivot, throwout bearing cage	
24	061457	2	TUBE, lubricating, throwout bearing (9" long. Includes adapter fitting. Serviced only as a unit)	
	901722	4	ELBOW, street, 90°, 1/4"NPT	
25	042538	2	ELBOW, lubricating tube (90°, 1/4"NPT male and female, long type)	
26	052220	2	YOKE ASSEMBLY, throwout (Includes items 27 and 28)	
27	050220	2	PIN, wear, throwout yoke	
28	052062	2	BALL, throwout yoke	
29	051958	4	PIN, trunnion, throwout yoke	
30	052505	4	BLOCK, locking, throwout yoke trunnion pin	
31	035244	4	CAPSCREW, 3/8"NC x 3/4"	
	904206	4	LOCKWASHER, 3/8"	



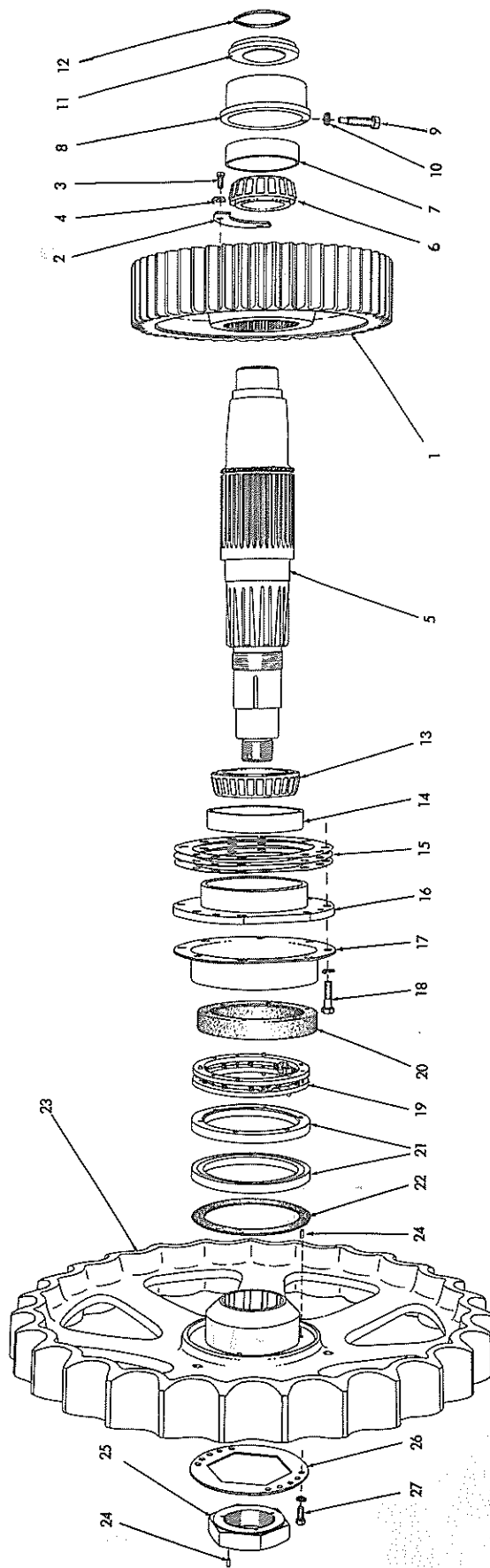
FINAL DRIVE PINION SHAFT

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	051951	2	DRUM, brake	
2	083791	24	CAPSCREW (drilled-hex-hd., 1/2"NC x 1-3/16")	
3	023633	12	WIRE, locking (1/16" x 12")	
4	052050	2	HUB, brake drum	
5	052072	2	WASHER ASSEMBLY, hub retaining (Includes item 6)	
6	052066	2	PIN, hub retaining washer	
7	071085	2	CAPSCREW, hub retaining	
8	064869	2	WASHER, locking, hub retaining capscREW	
9	052115	2	SEAL, oil, brake drum hub	
10	067352	2	CAGE, inner bearing cup	
11	035018	10	CAPSCREW, 1/2"NF x 1-1/2"	
	904208	10	LOCKWASHER, 1/2"	
12	052420	2	GASKET, bearing cage	
13	052086	2	SEAL, oil, pinion shaft (neoprene)	
14	051977	2	PINION (14 teeth)	
15	051997	2	CONE ASSEMBLY, inner bearing	
16	042877	2	CUP, inner bearing	
17	057004	2	CONE ASSEMBLY, outer bearing	
18	057003	2	CUP, outer bearing	
19	067354	2	CAGE, outer bearing cup	
20	035018	10	CAPSCREW, 1/2"NF x 1-1/2"	
	904208	10	LOCKWASHER, 1/2"	
21	067477	4	SHIM, bearing adjustment (.005" thick. Use as req'd)	
	067478	4	SHIM, bearing adjustment (.007" thick. Use as req'd)	
	067479	20	SHIM, bearing adjustment (.010" thick. Use as req'd)	



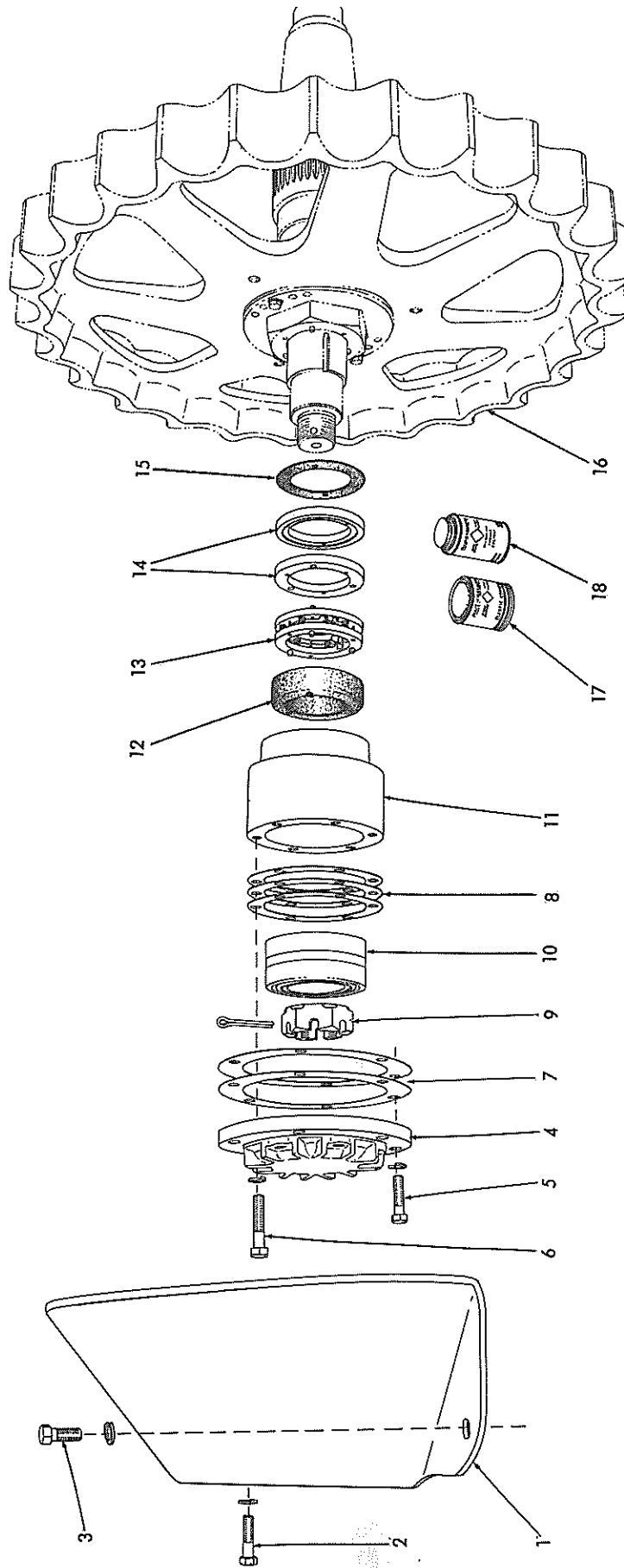
FINAL DRIVE INTERMEDIATE SHAFT

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	051967	2	GEAR (38 teeth)	
2	052372	4	LOCK, gear	
3	036034	8	CAPSCREW, 3/8"NF x 1"	
4	052444	8	LOCK, cap screw	
5	061452	2	PINION (16 teeth) 6228/2	
6	061456	2	CONE ASSEMBLY, pinion inner bearing	
7	605334	2	CUP, pinion inner bearing	
8	067355	2	CAGE, pinion inner bearing cup	
9	036034	8	CAPSCREW, 3/8"NF x 1"	
10	068999	8	LOCK, cap screw	
11	051989	2	CONE ASSEMBLY, pinion outer bearing	
12	051988	2	CUP, pinion outer bearing	
13	052112	4	SHIM, bearing adjustment (.005" thick. Use as req'd)	
	052113	4	SHIM, bearing adjustment (.007" thick. Use as req'd)	
	052114	14	SHIM, bearing adjustment (.010" thick. Use as req'd)	
14	065466	2	CAGE, pinion outer bearing	
15	035018	12	CAPSCREW, 1/2"NF x 1-1/2"	
	904208	12	LOCKWASHER, 1/2"	



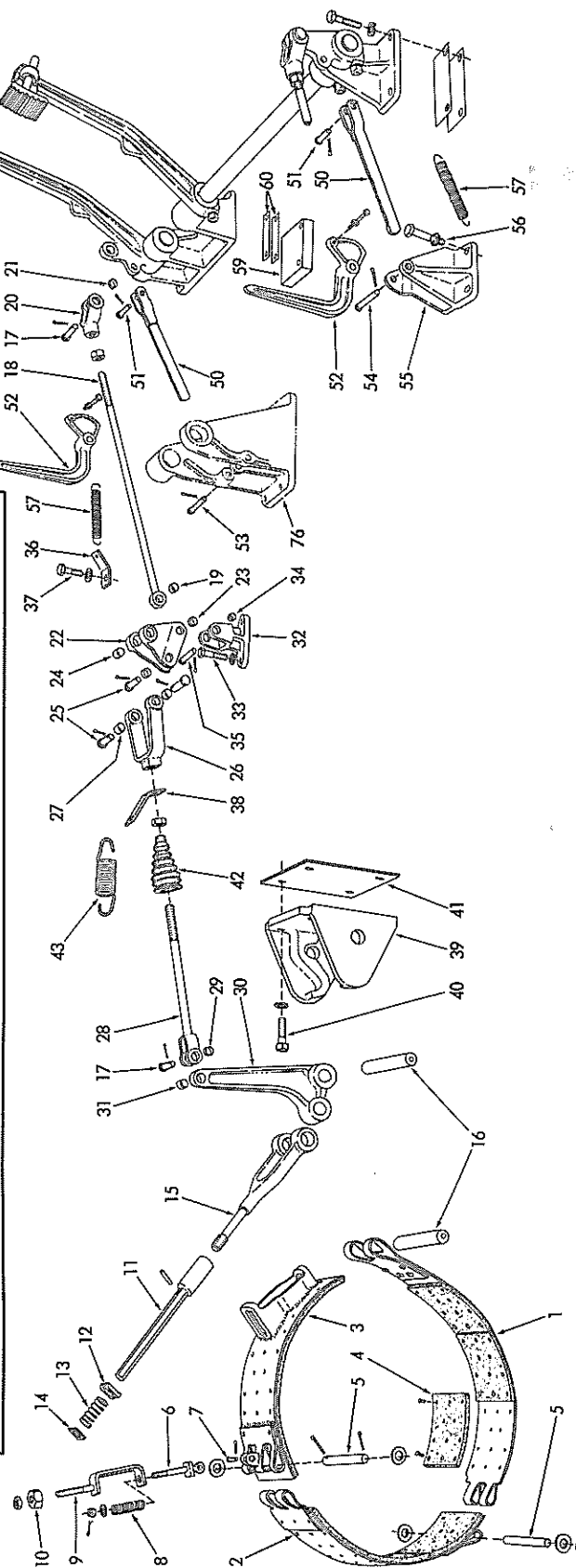
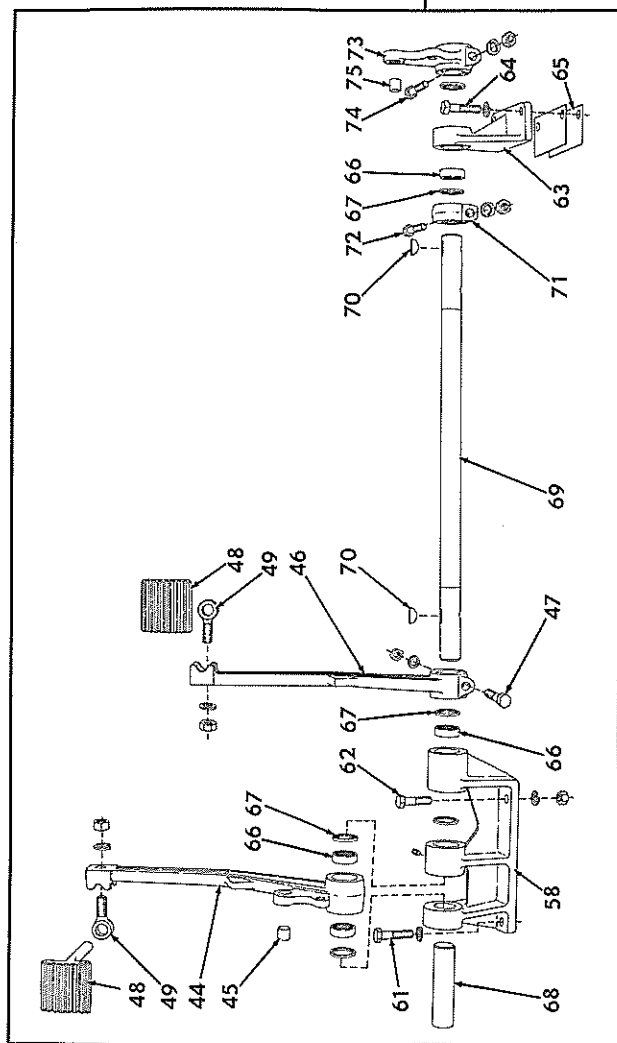
FINAL DRIVE SPROCKET, SHAFT AND GEAR

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	051966	2	GEAR, driving → 622811	
2	052161	4	LOCK, gear retaining	
3	036034	8	CAPSCREW, 3/8"NF x 1"	
4	052444	8	LOCK, capscREW	
5	065397	2	SHAFT, sprocket	
6	051997	2	CONE ASSEMBLY, inner bearing	
7	042877	2	CUP, inner bearing	
8	067350	2	CAGE, inner bearing cup	
9	067348	2	SETSCREW (hex-hd., dog-pt., 5/8"NF x 3")	
10	049918	2	WASHER, plain (copper)	
11	067349	2	COVER, inner bearing	
12	053495	2	SEAL, inner bearing cover	
13	051998	2	CONE ASSEMBLY, intermediate bearing	
14	049487	2	CUP, intermediate bearing	
15	067518	4	SHIM, bearing adjustment (.005" thick. Use as req'd)	
	067519	4	SHIM, bearing adjustment (.007" thick. Use as req'd)	
	067520	20	SHIM, bearing adjustment (.010" thick. Use as req'd)	
16	067351	2	CAGE, intermediate bearing cup	
17	052426	2	GUARD, seal	
18	035248	16	CAPSCREW, 5/8"NF x 2-1/4"	
	904209	16	LOCKWASHER, 5/8"	
19	052611	2	FOLLOWER ASSEMBLY, inner seal (Serviced only as a unit)	073764
20	052612	2	BOOT, inner seal	073764
21	052407	4	RING, inner seal	073764
22	052408	2	GASKET, inner seal ring	073764
23	065451	2	SPROCKET ASSEMBLY, track driving (Standard. Has flat tooth base)(Each includes 3 PINS 042930)	
	069006	2	SPROCKET ASSEMBLY, track driving (Special. Has skeleton tooth-base to minimize packing of track)(Each includes 3 PINS 042930)	
24	042930	12	PIN, driving, seal rings	
25	062100	2	NUT ASSEMBLY, sprocket retaining (Each includes 3 PINS 042930)	
26	052232	2	LOCK, sprocket retaining nut	
27	035221	4	CAPSCREW, 1/2"NC x 1"	
	904208	4	LOCKWASHER, 1/2"	



FINAL DRIVE OUTBOARD BEARING AND SEAL

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	052728	2	GUARD, track sprocket	
2	035248	10	CAPSCREW, 5/8"NF x 2-1/4"	
3	035440	4	CAPSCREW, 5/8"NC x 1-1/2"	
	904209	14	LOCKWASHER, 5/8"	
4	052477	2	CAP, outer bearing	
5	035248	2	CAPSCREW, 5/8"NF x 2-1/4"	
6	037332	12	CAPSCREW, 5/8"NC x 3"	
	904209	14	LOCKWASHER, 5/8"	
7	069761	12	SHIM, outer bearing cap (.015" thick. Use as req'd to prevent pre-loading of outboard bearing)	
8	052450	4	SHIM, bearing adjustment (.005" thick. Use as req'd)	
	052451	4	SHIM, bearing adjustment (.007" thick. Use as req'd)	
	052452	8	SHIM, bearing adjustment (.010" thick. Use as req'd)	
9	052446	2	NUT, retaining, outer bearing	
	904015	2	PIN, cotter, 3/8" x 3-1/2"	
10	069936	2	BEARING, roller, outboard (Each consists of 1 ROLLER ASSEMBLY and 2 CUPS. Serviced only as a unit)	
11	052445	2	CAGE, outboard bearing	
12	052545	2	BOOT, outer seal	073765
13	052543	2	FOLLOWER ASSEMBLY, outer seal (Serviced only as a unit).	073765
14	062097	4	RING, outer seal	073765
15	062098	2	GASKET, outer seal ring	073765
16	-----	2	SPROCKET (See SPROCKET, SHAFT AND GEAR)	
17	033288	-	CEMENT, neoprene, 1/2 pint can	} For cementing all boots and gaskets
18	054890	-	SOLVENT, neoprene cement, 1/2 pint can	



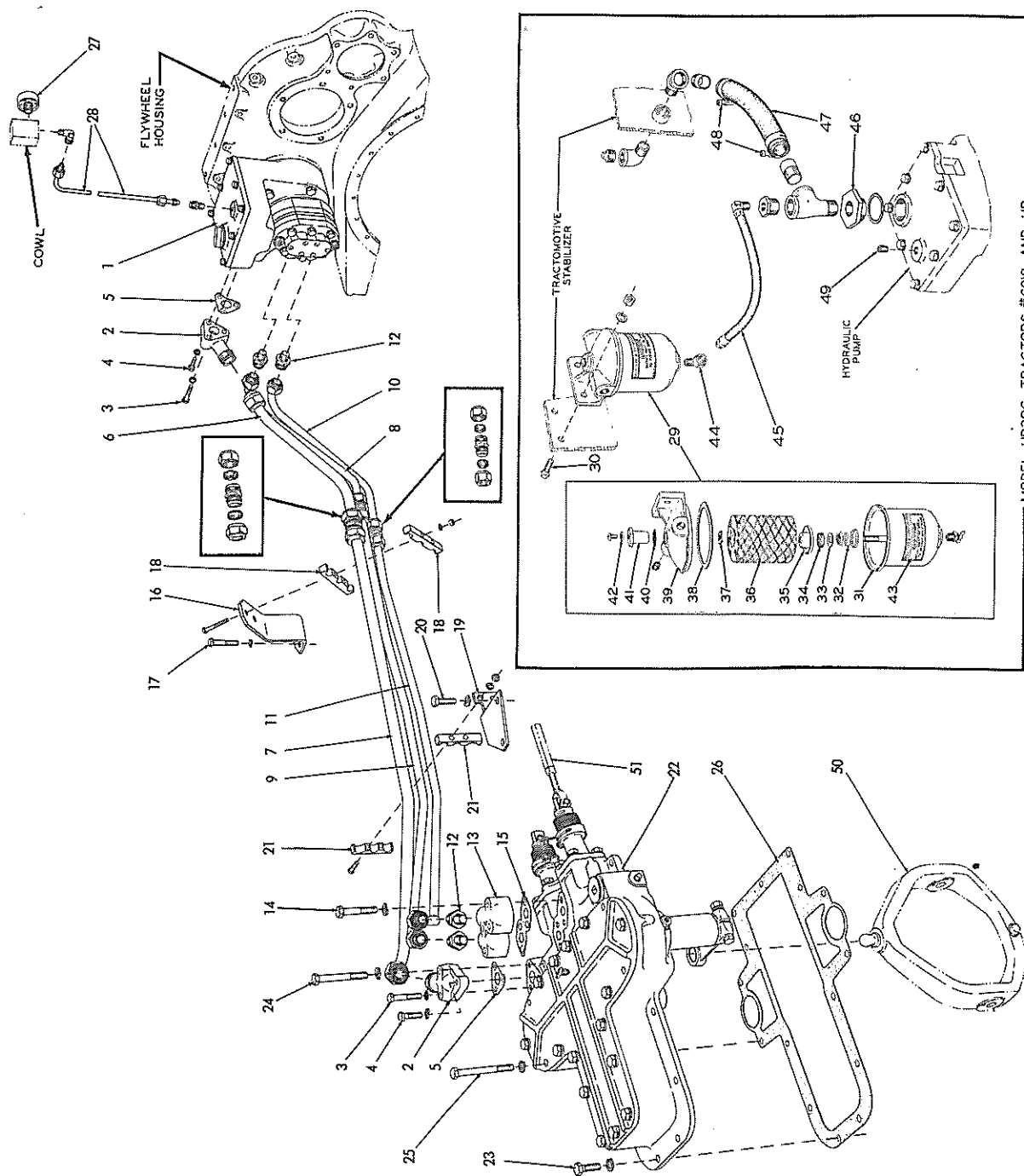
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	058016	2	BAND ASSEMBLY, brake, bottom section (Each includes 3 LININGS 058010, 30 RIVETS 911097 and 3 RIVETS 915639)	
2	058013	2	BAND ASSEMBLY, brake, intermediate section (Each includes 3 LININGS 058010, 27 RIVETS 911097 and 3 RIVETS 915639)	
3	058009	2	BAND ASSEMBLY, brake, top section (Each includes 3 LININGS 058010, 29 RIVETS 911097 and 3 RIVETS 915639)	
4	058010	18	LINING, brake band	065378
	911097	172	RIVET, tubular, brass, fl-hd., 3/16" x 3/8"	065378
	915639	22	RIVET, tubular, brass, fl-hd., 3/16" x 21/32"	065378
5	053260	4	PIN, hinge, brake band	
	914659	8	WASHER, plain, SAE std., 9/16"	
	900938	8	PIN, cotter, 3/16" x 1"	
6	060772	2	BOLT, eye, brake band supporting	
	900817	2	WASHER, plain, U. S. std., 3/8"	
	910863	2	NUT, slotted, 3/8"NF	
	900802	2	PIN, cotter, 3/32" x 1"	
7	033069	2	PIN, eye bolt	
	900942	2	PIN, cotter, 3/32" x 5/8"	
8	060668	2	SPRING, supporting, eye bolt	
9	060770	2	SUPPORT, brake band adjustment	
	913830	2	NUT, jam, 1/2"NF	
10	060774	2	NUT, brake band adjustment support	
NOTE: Items 11 thru 14 were not separately serviceable on tractors prior to serial No. 5742, being an integral part of a welded adjuster assembly. All of these items must be used when replacing the original welded adjuster assembly.				
11	078998	2	ADJUSTER, brake band	
	915634	2	PIN, roll, 1/4" x 1-1/8"	
12	079208	2	BLOCK, adjuster spring	
13	079203	2	SPRING, adjuster	
14	079212	2	WASHER, adjuster spring	
15	051904	2	FORK, brake band adjusting	
16	052634	4	PIN, brake band end	
17	052671	4	PIN, brake rod	
	900806	4	PIN, cotter, 1/8" x 1"	
18	076800	2	ROD ASSEMBLY, front	
	911044	2	NUT, 5/8"NF	
19	052669	2	BUSHING, front rod (steel)(Tractors prior to #5370 only)	
20	066399	2	YOKE ASSEMBLY, front rod (Each includes 2 BUSHINGS 052619)	
21	052619	4	BUSHING, front rod yoke (steel)	
22	066395	2	BELLCRANK ASSEMBLY, brake rod (Each includes 4 BUSHINGS 052619 and 2 BUSHINGS 052669)	
23	052619	8	BUSHING, bellcrank (steel, 5/16" long)	
24	052669	4	BUSHING, bellcrank (steel, 5/8" long)	
25	052671	6	PIN, brake rod	
	900806	6	PIN, cotter, 1/8" x 1"	

(Continued)

ITEM	NUMBER	QTY.	DESCRIPTION	KIT NUMBER
26	066397	2	YOKE ASSEMBLY, rear rod (Each includes 2 BUSHINGS 052669)	
27	052669	4	BUSHING, rear rod yoke (steel)	
28	066461 911044	2 2	ROD ASSEMBLY, rear NUT, 5/8"NF	
29	052619	4	BUSHING, rear rod (steel)(Tractors prior to #5357 only)	
30	066391	2	LEVER ASSEMBLY, brake band (Includes item 31)	
31	052669	2	BUSHING, brake band lever	
32	066393	2	BRACKET ASSEMBLY, bellcrank pivot (Each includes 2 BUSH- ings 052619)	
33	035067 904208	4 4	CAPSCREW, 1/2"NF x 2" LOCKWASHER, 1/2"	
34	052619	4	BUSHING, bellcrank pivot bracket (steel)	
35	066418 900806	2 2	PIN, bellcrank pivot bracket PIN, cotter, 1/8" x 1"	
36	066414	1	CLIP, attaching, left parking brake lock spring	
37	035073 904208	1 1	CAPSCREW, 1/2"NF x 1-3/4" LOCKWASHER, 1/2"	
38	066415	1	CLIP, attaching, brake rod spring	
39	051968	2	BRACKET, brake lever	
40	035229 904209	8 8	CAPSCREW, 5/8"NF x 2" LOCKWASHER, 5/8"	
41	060768	2	SHIM, brake lever bracket	
42	078908	2	BOOT, brake rod (rubber)	
43	070343	2	SPRING, brake rod	
44	058064	1	LEVER ASSEMBLY, pedal, left (Includes item 45)	
45	052669	1	BUSHING, left pedal lever (steel)	
46	058077	1	LEVER, pedal, right	
47	035278 911043 904208	1 1 1	CAPSCREW, 1/2"NF x 2-3/4" NUT, 1/2"NF LOCKWASHER, 1/2"	
48	050434	2	PAD, pedal lever	
49	050433 911044 904209	2 2 2	BOLT, eye, pedal lever pad NUT, 5/8"NF LOCKWASHER, 5/8"	
50	051288	2	BAR, parking brake lock	
51	049993 900805	2 2	PIN, parking brake lock bar PIN, cotter, 1/8" x 3/4"	
52	058073 903774 906652	2 2 2	LOCK, parking brake CAPSCREW, 5/16"NC x 2" NUT, jam, 5/16"NC	
53	058356 900805	1 1	PIN, left parking brake lock (4" long) PIN, cotter, 1/8" x 3/4"	
54	053077 900805	1 1	PIN, right parking brake lock (2-3/4" long) PIN, cotter, 1/8" x 3/4"	
55	058074	1	BRACKET, right parking brake lock	
56	035067 070403 904208	2 2 2	CAPSCREW, 1/2"NF x 2" (For HD20H and late HD20G) CAPSCREW, 1/2"NF x 3" (For HD20F and early HD20G) LOCKWASHER, 1/2"	

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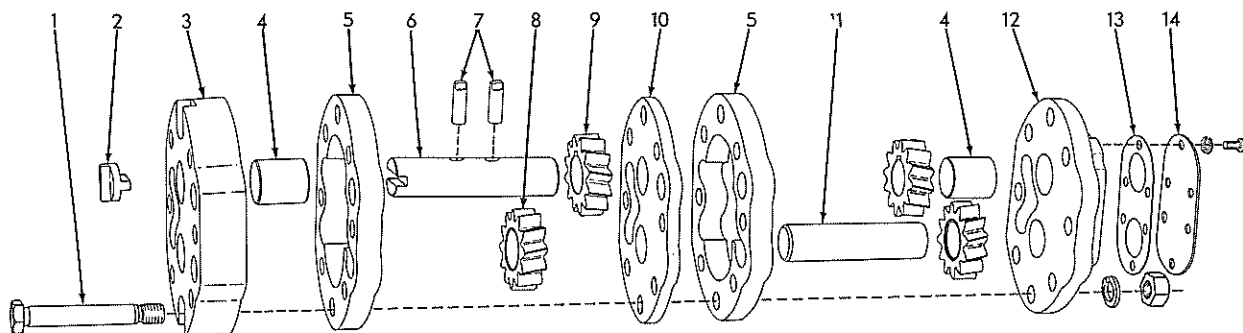
ITEM	FAK1 NUMBER	QTY.	DESCRIPTION	KIT NUMBER
57	072438	2	SPRING, parking brake lock	
58	058075	1	BRACKET, pedal shaft, left	
59	074041	1	PLATE, bracket spacing (1" thick)(For all Model HD20F, and for Model HD20G units prior to #6071)	
60	077304	4	SHIM, bracket spacing (1/32" thick. Use as req'd)(For all Model HD20F, and for Model HD20G units prior to #6071)	
61	{ 035067	2	CAPSCREW, 1/2"NF x 2" (For HD20H and late HD20G)	
	070403	2	CAPSCREW, 1/2"NF x 3" (For HD20F and early HD20G)	
	904208	2	LOCKWASHER, 1/2"	
62	{ 035073	2	CAPSCREW, 1/2"NF x 1-3/4" (For HD20H and late HD20G)	
	035278	2	CAPSCREW, 1/2"NF x 2-3/4" (For HD20F and early HD20G)	
	911043	2	NUT, 1/2"NF	
	904208	2	LOCKWASHER, 1/2"	
63	058273	1	BRACKET, pedal shaft, right	
64	{ 035067	2	CAPSCREW, 1/2"NF x 2" (For HD20H and late HD20G)	
	070403	2	CAPSCREW, 1/2"NF x 3" (For HD20F and early HD20G)	
	904208	2	LOCKWASHER, 1/2"	
65	053278	4	SHIM, right pedal shaft bracket (Use as req'd)	
66	053244	4	BEARING, needle, pedal shafts	
67	053243	6	SEAL, dust, pedal shafts	
68	052656	1	SHAFT, left pedal	
	903093	1	SETSCREW, slotted-hd., cup-pt., 3/8"NC x 5/8"	
69	052660	1	SHAFT, right pedal	
70	036997	2	KEY, #13 woodruff, 3/16" x 1"	
71	052639	1	COLLAR, right pedal shaft	
72	035278	1	CAPSCREW, 1/2"NF x 2-3/4"	
	911043	1	NUT, 1/2"NF	
	904208	1	LOCKWASHER, 1/2"	
73	058066	1	LEVER ASSEMBLY, right pedal shaft (Includes item 75)	
74	035278	1	CAPSCREW, 1/2"NF x 2-3/4"	
	911043	1	NUT, 1/2"NF	
	904208	1	LOCKWASHER, 1/2"	
75	052669	1	BUSHING, pedal shaft lever (steel)	
76	-----	1	BRACKET (See ENGINE CLUTCH CONTROL)	



MODEL HD20G TRACTORS #6019 AND UP

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	-----	-	HYDRAULIC PUMP AND DRIVE (See page 135)	
2	066814	2	ELBOW, fluid return tubes	
	915536	2	NUT, Sealastic fitting, 1" tube	
	915535	2	RING, Sealastic, 1" tube (Includes FERRULE)(Tractors prior to #5897)	
	917692	2	RING, Sealastic, 1" tube (No FERRULE included)(Tractors #5897 and up)	
3	047558	4	CAPSCREW, 7/16"NC x 2-1/4"	
4	040011	2	CAPSCREW, 7/16"NC x 1-1/2"	
	904207	6	LOCKWASHER, 7/16"	
5	056474	2	GASKET, fluid return elbow	
6	081914	1	TUBE ASSEMBLY, fluid return, front section (Includes FERRULE and RING 917692)	
	915537	1	UNION, Sealastic, 1" tube	
	915536	2	NUT, Sealastic fitting, 1" tube	
	915535	2	RING, Sealastic, 1" tube (Includes FERRULE)	
7	081915	1	TUBE ASSEMBLY, fluid return, rear section (Includes FERRULE and RING 917692)	
8	081916	1	TUBE ASSEMBLY, fluid supply, left clutch control, front section (Includes FERRULE and RING 917691)	
	915560	1	UNION, Sealastic, 3/4" tube	
	915559	2	NUT, Sealastic fitting, 3/4" tube	
	915558	2	RING, Sealastic fitting, 3/4" tube (Includes FERRULE)	
9	081918	1	TUBE ASSEMBLY, fluid supply, left clutch control, rear section (Includes FERRULE and RING 917691)	
10	081917	1	TUBE ASSEMBLY, fluid supply, right clutch control, front section (Includes FERRULE and RING 917691)	
	915560	1	UNION, Sealastic, 3/4" tube	
	915559	2	NUT, Sealastic fitting, 3/4" tube	
	915558	2	RING, Sealastic fitting, 3/4" tube (Includes FERRULE)	
11	081919	1	TUBE ASSEMBLY, fluid supply, right clutch control, rear section (Includes FERRULE and RING 917691)	
12	066554	4	CONNECTOR, fluid supply tubes (1/2"NPT and 1-3/16"EF male ends)	
	915559	4	NUT, Sealastic fitting, 3/4" tube	
	915558	4	RING, Sealastic fitting, 3/4" tube (Includes FERRULE)(Tractors prior to #5897)	
	917691	4	RING, Sealastic fitting, 3/4" tube (No FERRULE included) (Tractors #5897 and up)	
13	056281	1	CAP, fluid supply tube connection	
14	028979	4	CAPSCREW, 1/2"NF x 2-1/2"	
	904208	4	LOCKWASHER, 1/2"	
15	056304	1	GASKET, tube connection cap	
16	060616	1	BRACKET, tube supporting clamp (For all Model HD20H tractors and Model HD20G tractors #6071 and up)	
	074061	1	BRACKET, tube supporting clamp (For all Model HD20F tractors and Model HD20G tractors prior to #6071)	
17	035067	2	CAPSCREW, 1/2"NF x 2" (All HD20H tractors and HD20G tractors #6071 and up)	
	070403	2	CAPSCREW, 1/2"NF x 3" (All HD20F tractors and HD20G tractors prior to #6071)	
	904208	2	LOCKWASHER, 1/2"	
18	057862	2	CLAMP, tube supporting (half only)	
	913611	2	CAPSCREW, 3/8"NF x 2-1/2"	
	904206	2	LOCKWASHER, 3/8"	
	911041	2	NUT, 3/8"NF	
19	059550	1	BRACKET, tube supporting clamp	
20	035190	2	CAPSCREW, 1/2"NC x 1-1/2"	
	904208	2	LOCKWASHER 1/2"	

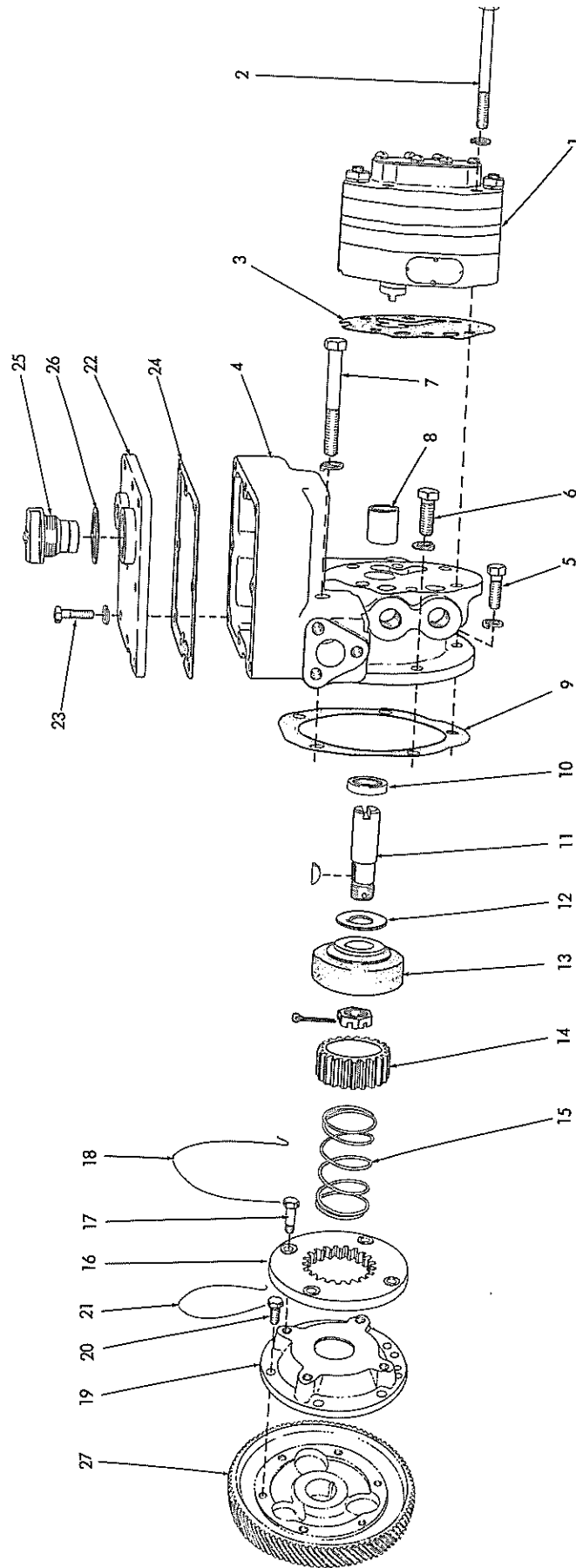
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
21	056407	2	CLAMP, tube supporting (half only)	
	913611	2	CAPSCREW, 3/8"NF x 2-1/2"	
	904206	2	LOCKWASHER, 3/8"	
	911041	2	NUT, 3/8"NF	
22	052951	1	VALVE ASSEMBLY, steering clutch throwout (See page 137 for re- pair parts)	
23	035018	8	CAPSCREW, 1/2"NF x 1-1/2"	
24	043576	2	CAPSCREW, 1/2"NF x 3-3/4"	
25	031671	4	CAPSCREW, 1/2"NF x 4-1/2"	
	912387	1	CAPSCREW, 1/2"NF x 3-1/4"	
	904208	15	LOCKWASHER, 1/2"	
26	052470	1	GASKET, steering clutch throwout valve	
27	050748	1	BREATHER, hydraulic reservoir (Not for Model HD20G tractors #6019 and up)	
28	067452	1	TUBE, breather (Not for Model HD20G tractors #6019 and up)	
	915369	1	ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male	
	915368	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male	
	915366	2	NUT, Sealastic fitting, 3/8" tube	
	915367	2	RING, Sealastic, 3/8" tube (Includes FERRULE)	
NOTE: Items 29 thru 49 are used only on Model HD20G tractors starting with serial No. 6019.				
29	081948	1	TANK ASSEMBLY, expansion (Consists of items 31 thru 43)	
30	036039	2	CAPSCREW, 3/8"NF x 1-3/8"	
	904206	2	LOCKWASHER, 3/8"	
	911041	2	NUT, 3/8"NF	
31	065582	1	SHELL	
32	065585	1	SPRING	
33	-----	1	WASHER, steel (Not serviced separately)	
34	-----	1	WASHER, cork (Not serviced separately)	
35	065584	1	PLATE, element seating	
36	065583	1	ELEMENT KIT (Includes items 33, 34 and 38)	
37	067481	1	GUIDE, element centering	
38	043130	1	GASKET, shell	
39	065580	1	HEAD, expansion tank	
	907859	1	PLUG, pipe, hex-socket-hd., 1/4"NPT	
40	065579	1	GASKET, shell retaining nut	
41	065578	1	NUT, shell retaining	
	915432	1	SCREW, machine, 1/4"NC x 5/16"	
42	065577	1	GASKET, screw	
43	081947	1	TRANSFER, caution (1-1/2" x 4")	
44	078926	1	ELBOW, expansion tank (90°, 1/4"NPT male and female)	
45	605229	1	HOSE, reservoir to tank (12" long)	
46	081904	1	ADAPTER, expansion tank hose	
	901840	1	BUSHING, pipe reducing, 3/4"NPT to 1/4"NPT	
	907060	1	TEE, service, 3/4"NPT	
47	081903	1	HOSE, oil filling (10" long)	
	913230	2	NIPPLE, pipe, 3/4"NPT x 1-1/2"	
	910023	1	ELBOW, street, 45°, 3/4"NPT	
	901725	1	ELBOW, street, 90°, 3/4"NPT	
	912726	1	PLUG, pipe, 3/4"NPT	
48	076471	2	CLAMP, oil filling hose	
49	907859	1	PLUG, pipe, hex-socket-hd., 1/4"NPT	
50	-----	2	YOKE, steering clutch throwout (See STEERING CLUTCHES)	
51	-----	2	ROD, valve control (See STEERING LEVERS AND LINKAGE)	



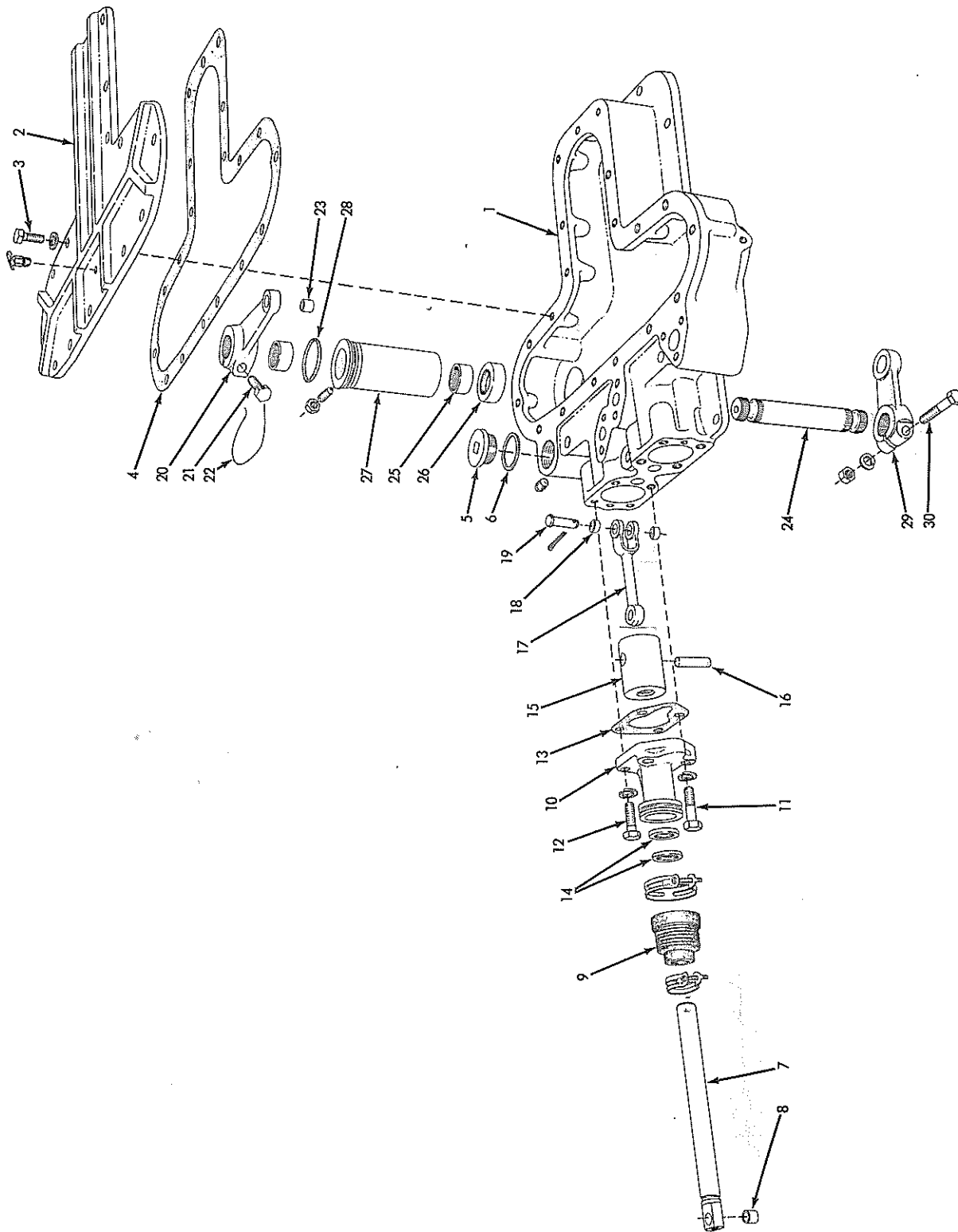
HYDRAULIC PUMP ASSEMBLY 069229 (ROPER)

NOTE: See page 135 for listing of complete pump.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	065543	2	BOLT, dowel	
	911028	2	NUT, 1/2"NC	
	904208	2	LOCKWASHER, 1/2"	
2	059781	1	COUPLING, driving shaft	
3	065542	1	PLATE ASSEMBLY, front (Includes item 4)	
4	059776	2	BEARING, driving gear shaft (1-1/4" long)	
5	059772	2	CASE	
6	059774	1	SHAFT, driving	
7	059782	2	PIN, driving gear	
8	059775	2	GEAR ASSEMBLY, idling (Includes BUSHING which is not serviced separately)	
9	059779	2	GEAR, driving	
10	059771	1	PLATE, spacing	
11	059773	1	SHAFT, idling gears	
12	065541	1	PLATE ASSEMBLY, rear (Includes items 4 and 11)	
13	059778	1	GASKET, cover plate	
14	059777	1	PLATE, cover	
	900574	6	SCREW, machine, 1/4"NC x 1/2"	
	904204	6	LOCKWASHER, 1/4"	

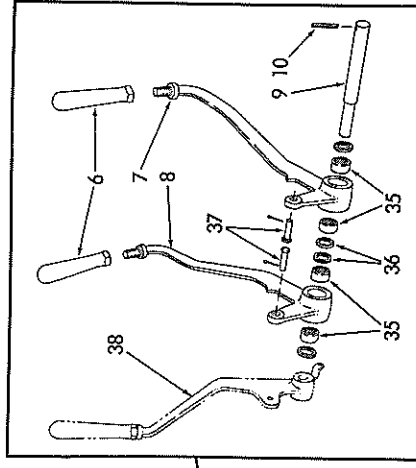
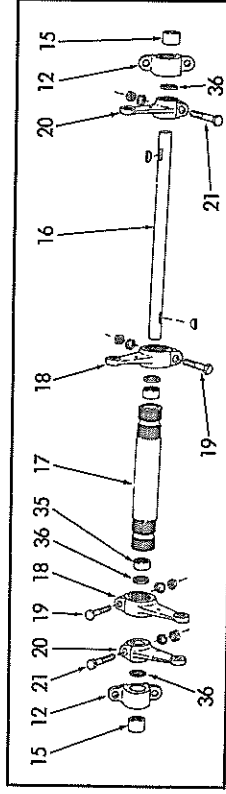


ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	069229	1	PUMP ASSEMBLY, hydraulic (See page 133 for repair parts)	
2	056498	6	CAPSCREW, 7/16"NC x 5"	
	904207	6	LOCKWASHER, 7/16"	
3	056335	1	GASKET, pump to adapter	
4	067807	1	ADAPTER ASSEMBLY, hydraulic pump (Includes item 8)	
5	041250	1	CAPSCREW, 7/16"NC x 1-1/4"	
	904207	1	LOCKWASHER, 7/16"	
6	035061	1	CAPSCREW, 1/2"NC x 1-1/4"	
7	045253	3	CAPSCREW, 1/2"NC x 3-3/4"	
	904208	4	LOCKWASHER, 1/2"	
8	056334	1	BUSHING, hydraulic pump adapter	
9	5150059	1	GASKET, pump adapter to engine	5183332
10	049490	1	SEAL, oil, pump adapter	
11	056333	1	SHAFT, pump drive	
	905845	1	KEY, "A" woodruff, 1/4" x 7/8"	
12	056332	1	WASHER, thrust, pump drive shaft	
13	060893	1	COUPLING, pump drive shaft (21 internal teeth)	
	912620	1	NUT, jam, slotted, 7/8"NF	
	900808	1	PIN, cotter, 1/8" x 1-1/2"	
14	056337	1	GEAR, coupling, pump drive (21 teeth)	
15	056328	1	SPRING, pump drive coupling	
16	2136944	1	PLATE, coupling, pump drive (21 internal teeth)	
17	5182458	4	BOLT (3/8"NF x 1-1/8")	
18	023633	2	WIRE, locking (1/16" x 12")	
19	5182317	1	ADAPTER, coupling, pump drive	
20	074155	6	CAPSCREW (3/8"NF x 7/8", drilled-hd.)	
21	5160060	3	WIRE, locking	
22	067809	1	COVER, hydraulic pump adapter	
23	013058	8	CAPSCREW, 3/8"NC x 1-1/4"	
	904206	8	LOCKWASHER, 3/8"	
24	067808	1	GASKET, pump adapter cover	
25	080575	1	PLUG, oil filler (Not used on Model HD20G tractors #6019 and up)	
26	035249	1	GASKET, oil filler plug	
27	-----	1	GEAR, driving (See CAMSHAFT)	

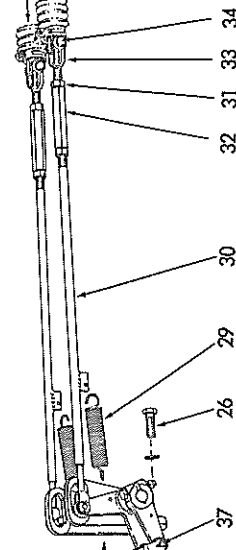
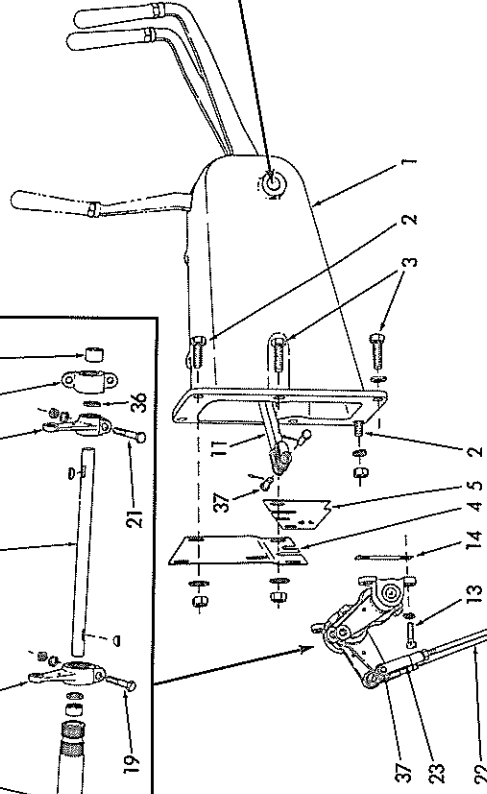
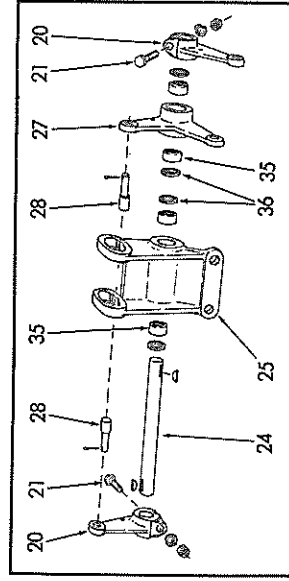


NOTE: See page 131 for listing of complete Valve Assembly.

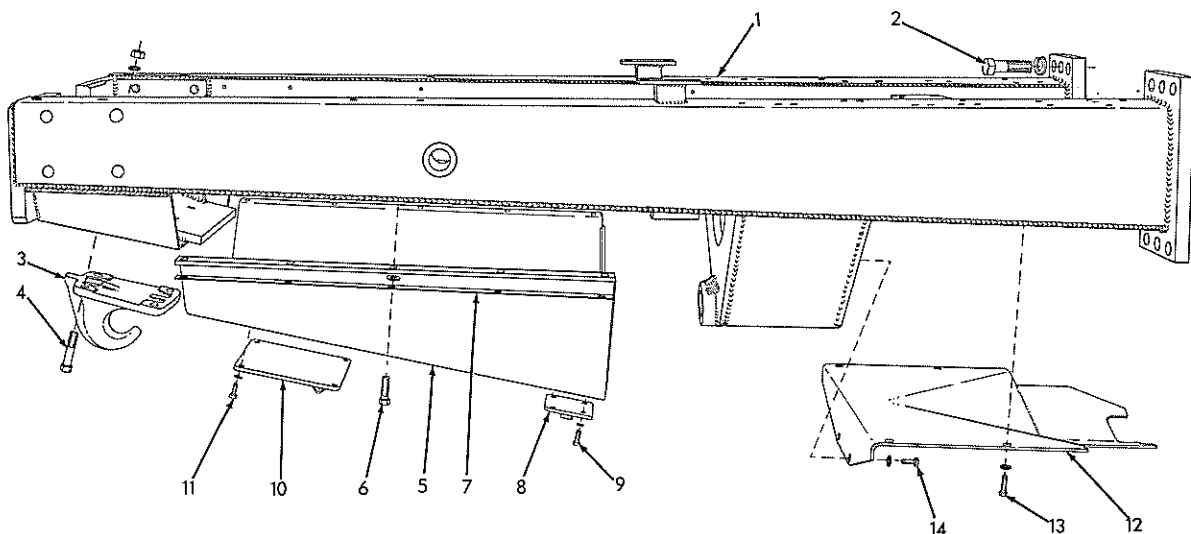
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	061423	1	HOUSING, control mechanism	
	901652	1	PLUG, pipe, sq-hd., 1/4"NPT (oil drain)	
2	061425	1	COVER, housing	
	914453	1	COCK, drain, T-handle, 1/8"NPT (for bleeding system)	
3	035061	15	CAPSCREW, 1/2"NC x 1-1/4"	
	904208	15	LOCKWASHER, 1/2"	
4	061426	1	GASKET, housing cover	
5	035250	1	PLUG, oil filler	
6	035249	1	GASKET, oil filler plug	
7	052616	2	SPOOL ASSEMBLY, valve (Includes item 8)	
8	049988	2	BUSHING, valve spool (steel)	
9	079421	2	BOOT, valve spool	
	913232	2	CLAMP, hose, 1-3/8" diam. (front)	
	914503	2	CLAMP, hose, 2-3/16" diam. (rear)	
10	079372	2	BRACKET, valve spool	
11	036203	4	CAPSCREW, 1/2"NC x 1-3/4"	
	904208	4	LOCKWASHER, 1/2"	
12	035190	4	CAPSCREW, 1/2"NC x 1-1/2"	
	904208	4	LOCKWASHER, 1/2"	
13	059883	2	GASKET, valve spool bracket	
14	052641	4	SEAL, oil, valve spool	
15	065112	2	PISTON, control	
16	052459	2	PIN, piston	
17	076792	2	ROD, connecting	
18	049991	4	BUSHING, connecting rod (steel)(Used prior to tractor #5205 only)	
19	049993	2	PIN, connecting rod	
	910967	2	PIN, cotter, 1/8" x 7/8"	
20	052457	2	LEVER ASSEMBLY, actuating, upper (Includes item 23)	
21	035814	2	CAPSCREW (drilled-hd., 1/2"NC x 1-3/4")	
22	023633	2	WIRE, locking (1/16" x 12")	
23	049988	2	BUSHING, upper actuating lever	
24	052468	2	SHAFT, actuating lever	
25	052642	4	BEARING, needle, actuating lever shaft	
26	056450	2	SEAL, oil, actuating lever shaft	
27	052467	2	RETAINER, actuating lever shaft bearings	
	912230	2	SETSCREW, slotted-hd., cone-pt., 3/8"NC x 1"	
	911026	2	NUT, 3/8"NC	
28	034004	2	RING, packing, bearing retainer	
29	069995	2	LEVER, actuating, lower	
30	035278	2	CAPSCREW, 1/2"NF x 2-3/4"	
	911043	2	NUT, 1/2"NF	
	904208	2	LOCKWASHER, 1/2"	



SEE HYDRAULIC
STEERING CONTROL



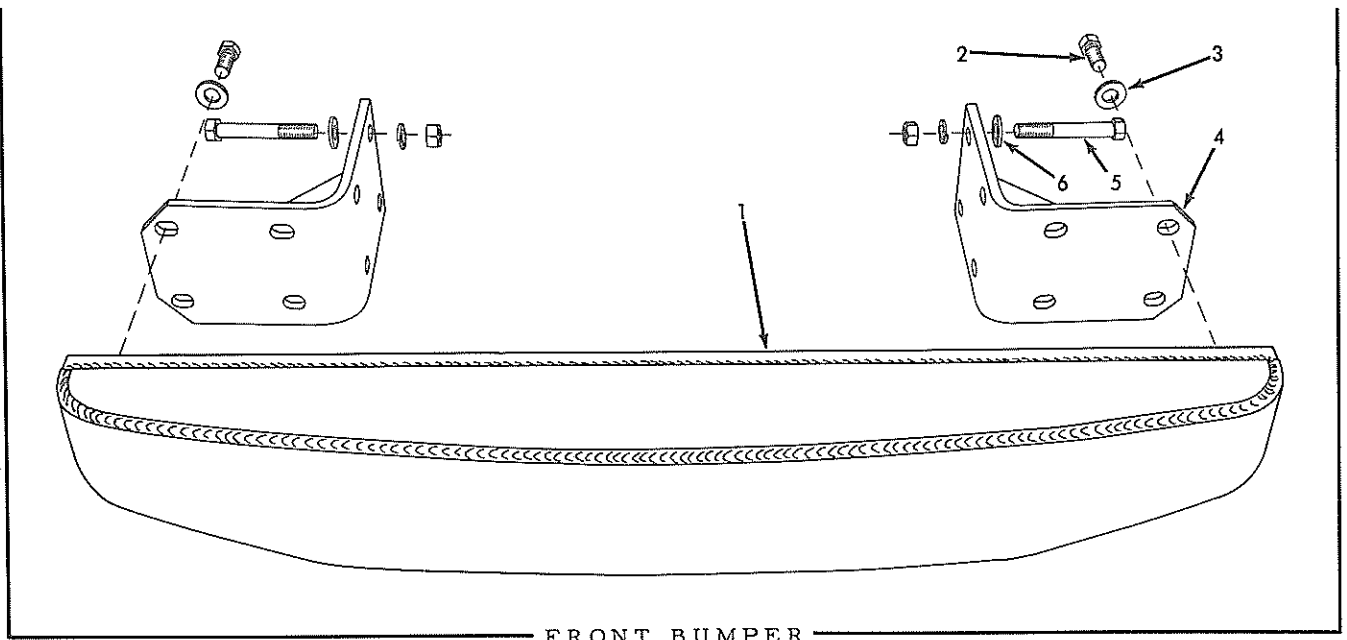
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	052726	1	BRACKET, steering lever	
2	070469	3	CAPSCREW, 1/2"NF x 1-1/4"	
3	035018	3	CAPSCREW, 1/2"NF x 1-1/2"	
	904208	2	LOCKWASHER, 1/2"	
	910244	4	WASHER, plain, SAE std., 1/2"	
	911043	5	NUT, 1/2"NF	
4	061766	1	PLATE, air baffle, upper (Not used on Model HD20G)	
5	061767	1	PLATE, air baffle, lower (Not used on Model HD20G)	
6	052591	2	GRIP, steering lever	
7	052583	1	LEVER, steering, left	
8	052584	1	LEVER, steering, right	
9	054236	1	SHAFT, steering lever	
10	915989	1	PIN, roll, 3/16" x 1-3/8"	
11	{ 052569	2	ROD, control, upper (Not for Model HD20G #6019 and up)	
	082579	2	ROD, control, upper (Started with Model HD20G #6019)	
12	052566	2	BLOCK, pillow, cross shaft	
13	036034	4	CAPSCREW, 3/8"NF x 1"	
	904206	4	LOCKWASHER, 3/8"	
14	061554	4	SHIM, aligning, upper cross shaft (Use as req'd)	
15	052644	2	BEARING, needle, upper cross shaft (3/4" long)	
16	052572	1	SHAFT, cross, upper	
	905123	2	KEY, #9 woodruff, 3/16" x 3/4"	
17	052573	1	TUBE, upper cross shaft levers	
18	052574	2	LEVER, upper cross shaft tube	
19	046419	2	CAPSCREW, 3/8"NF x 2"	
	911041	2	NUT, 3/8"NF	
	904206	2	LOCKWASHER, 3/8"	
20	052565	4	LEVER, control	
21	046419	4	CAPSCREW, 3/8"NF x 2"	
	911041	4	NUT, 3/8"NF	
	904206	4	LOCKWASHER, 3/8"	
22	073948	2	ROD, control, vertical	
	911041	2	NUT, 3/8"NF	
23	033056	2	YOKE, control rod	
24	069467	1	SHAFT, cross, lower	
	905123	2	KEY, #9 woodruff, 3/16" x 3/4"	
25	052568	1	BRACKET, lower cross shaft	
26	035733	2	CAPSCREW, 1/2"NF x 1-3/8"	
	904208	2	LOCKWASHER, 1/2"	
27	052570	1	BELLCRANK, lower cross shaft	
28	052564	2	PIN, control rod yoke	
	900801	2	PIN, cotter, 3/32" x 3/4"	
29	043881	2	SPRING, control rod retracting	
30	073949	2	ROD, control, lower	
	911043	2	NUT, 1/2"NF	
31	053005	2	NUT, lower control rod yoke (1/2"NF left hand thread)	
32	052601	2	NUT, adjusting, lower control rod	
33	{ 073034	2	YOKE, lower control rod	
	049991	4	BUSHING, yoke (steel)(Tractors prior to #3189)	
34	049993	2	PIN, lower control rod yoke	
	900805	2	PIN, cotter, 1/8" x 3/4"	
35	052643	10	BEARING, needle, control linkage (1/2" long)	
36	052662	12	SEAL, dust, control linkage bearings	
37	033069	8	PIN, control linkage yokes	
	900801	8	PIN, cotter, 3/32" x 3/4"	
38	-----	-	LEVER, throttle (See ENGINE CONTROL)	



MAIN FRAME

* Model HD20H
 ** Model HD20F tractors and Model HD20G tractors prior to #6071.
 *** Model HD20G tractors #6071 and up.

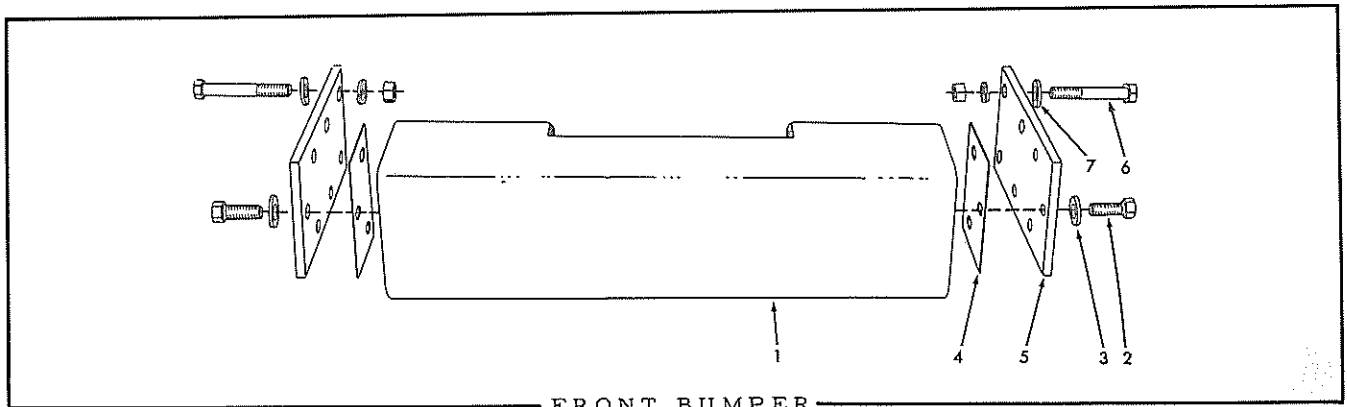
ITEM	PART NUMBER	QUANTITY			DESCRIPTION	KIT NUMBER
		*	**	***		
1	073998	1	-	-	FRAME, main	
	074468	-	1	-	FRAME, main	
	074469	-	-	1	FRAME, main	
2	053251	12	12	12	CAPSCREW, 1-1/4"NF x 4-1/2"	
	904210	12	12	12	LOCKWASHER, 1-1/4"	
3	040503	1	1	1	HOOK, front pull	
4	013006	4	4	4	CAPSCREW, 7/8"NF x 3-3/4"	
	911046	4	4	4	NUT, 7/8"NF	
	905347	4	4	4	LOCKWASHER, 7/8"	
5	074031	1	1	1	GUARD ASSEMBLY, crankcase (Includes items 8 thru 11)	
6	012742	10	10	10	CAPSCREW, 3/4"NF x 2-1/4"	
	910255	10	10	10	WASHER, plain, SAE std., 3/4"	
7	065625	2	2	2	STRIP, capscREW locking	
8	074122	1	1	1	PLATE, cover, oil drain opening, rear	
9	070469	4	4	4	CAPSCREW, 1/2"NF x 1-1/4"	
	904208	4	4	4	LOCKWASHER, 1/2"	
10	074123	1	1	1	PLATE, cover, oil and water drain opening, front	
11	070469	4	4	4	CAPSCREW, 1/2"NF x 1-1/4"	
	904208	4	4	4	LOCKWASHER, 1/2"	
12	058413	1	-	-	SHIELD, rear	
	074716	-	1	-	SHIELD, rear	
	079314	-	-	1	SHIELD, rear	
13	035067	4	4	4	CAPSCREW, 1/2"NF x 2"	
14	070469	2	2	2	CAPSCREW, 1/2"NF x 1-1/4"	
	910244	6	6	6	WASHER, plain, SAE std., 1/2"	



FRONT BUMPER

USAGE: Model HD20H only. Not used with Heavy Radiator Guard.

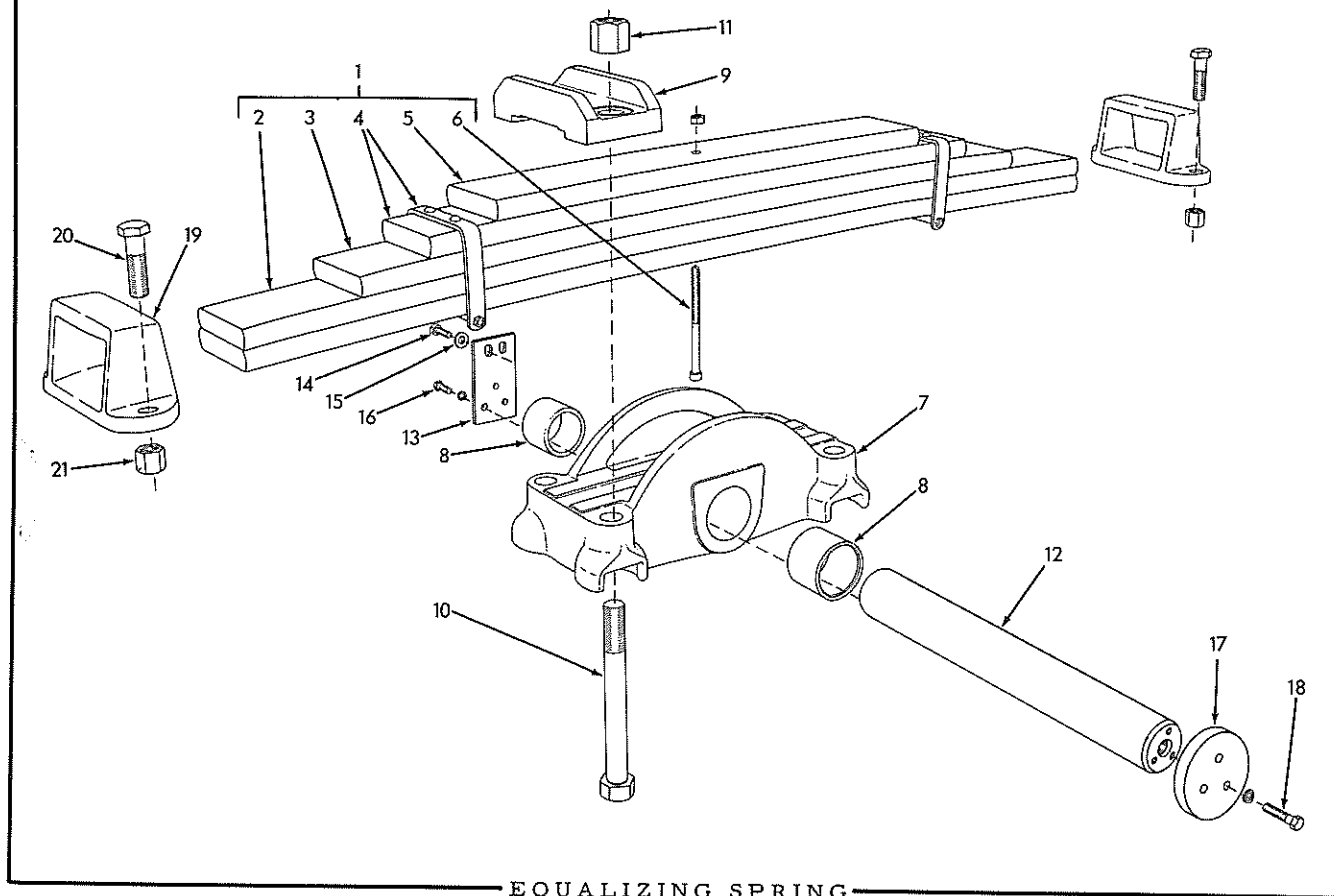
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	053233	1	BUMPER, front (67-1/4" long)	
2	073468	8	CAPSCREW, 1"NF x 2 1/2"	
3	038182	8	WASHER, plain	
4	053226	2	BRACKET, bumper bracing	
5	048075	8	CAPSCREW, 1"NF x 6-1/2"	
6	038182	8	WASHER, plain	
	910916	8	LOCKWASHER, 1"	
	911047	8	NUT, 1"NF	



FRONT BUMPER

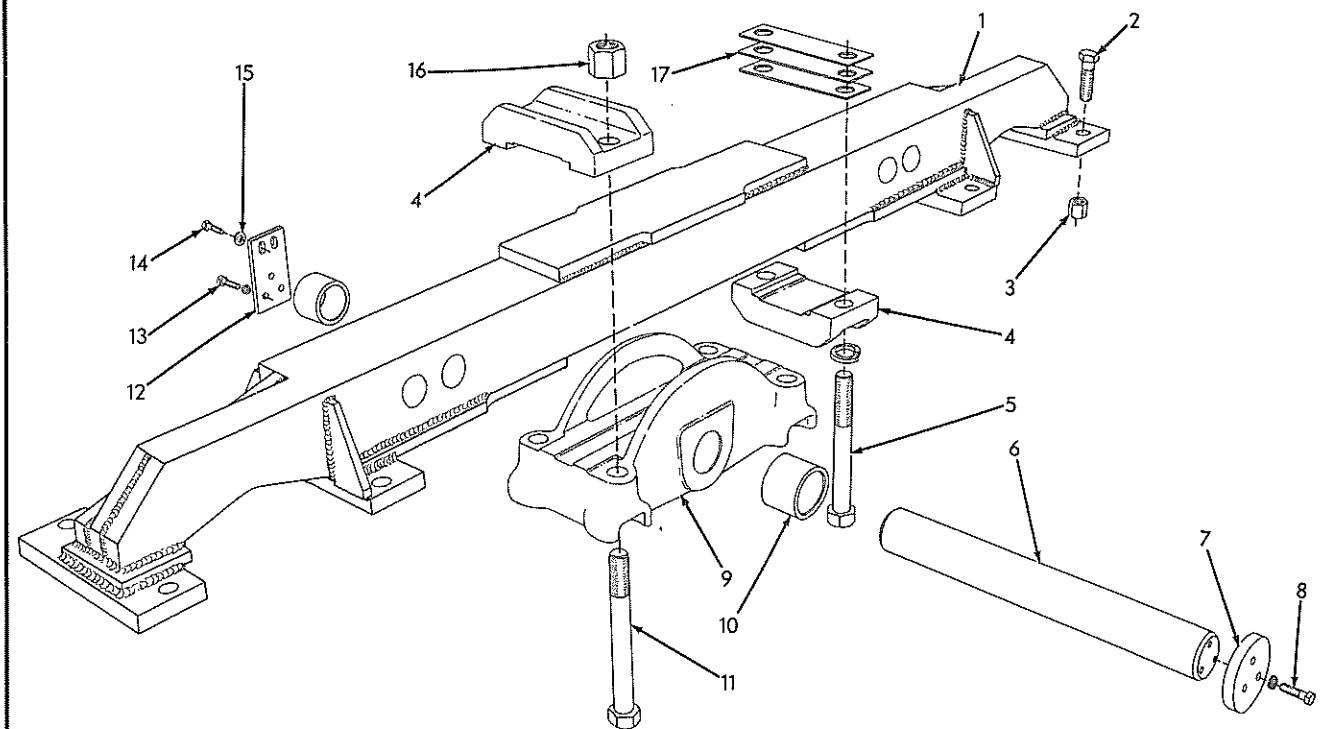
USAGE: Model HD20F only. Not used with Heavy Radiator Guard.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	077028	1	BUMPER, front (39-7/8" long)	
2	073468	6	CAPSCREW, 1"NF x 2-1/2"	
3	038182	6	WASHER, plain	
4	077040	4	SHIM, bumper spacing (1/16" thick. Use as req'd)	
5	077023	2	PLATE, tie, bumper to frame	
6	048075	8	CAPSCREW, 1"NF x 6-1/2"	
7	038182	8	WASHER, plain	
	910916	8	LOCKWASHER, 1"	
	911047	8	NUT, 1"NF	



USAGE: For Model HD20H only.

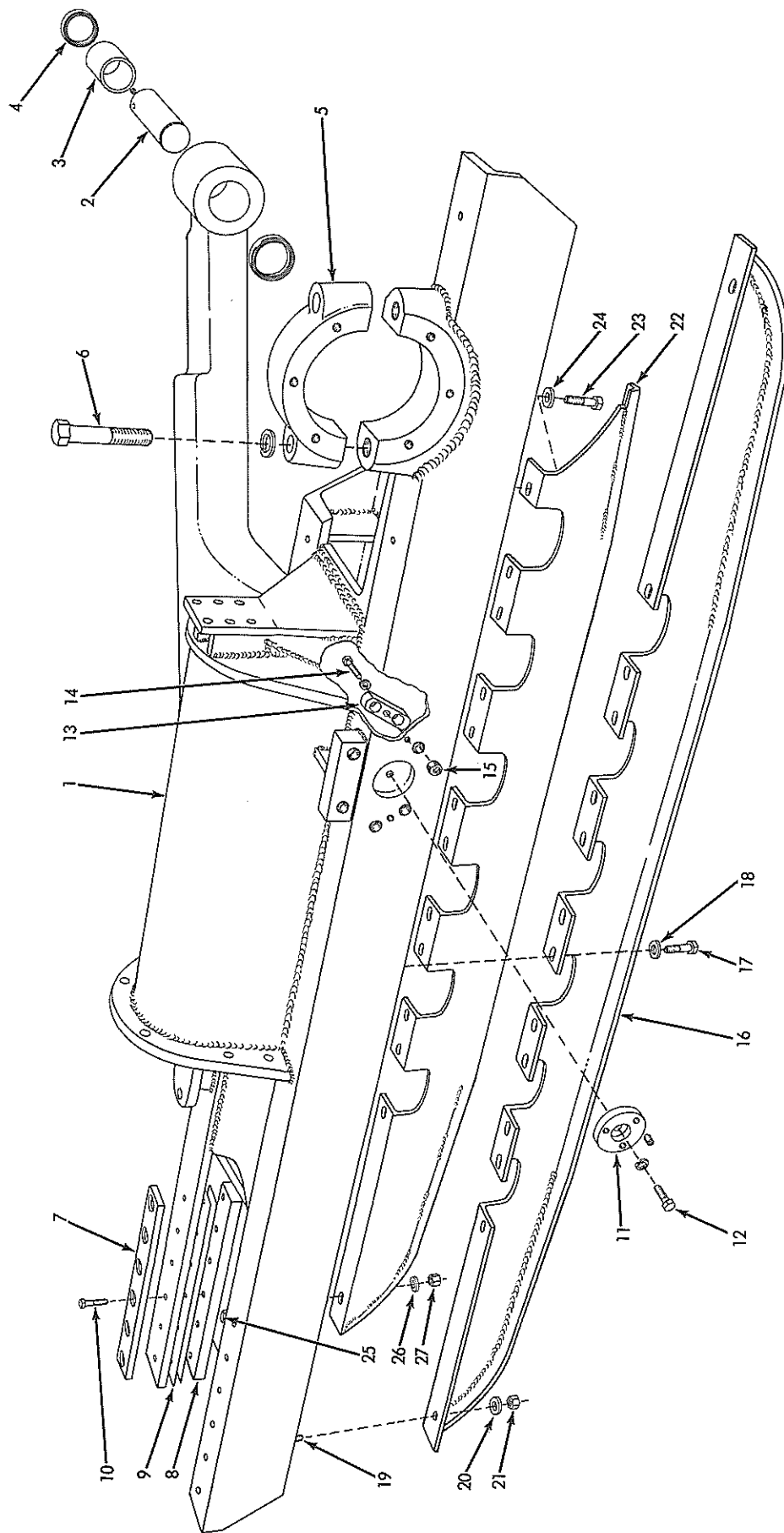
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	052255	1	SPRING ASSEMBLY (Consists of items 2 thru 6)	
2	052248	2	LEAF, first and second (73" long)	
3	052250	1	LEAF, third (57-1/4" long)	
4	052251	1	LEAF, fourth (47-1/4" long. Includes rebound CLIPS)	
5	052252	1	LEAF, fifth (37-1/4" long)	
6	052253	1	BOLT, center (5/8"NF x 7-3/4". Includes NUT 911044)	
	911044	1	NUT, 5/8"NF	
7	065860	1	SADDLE ASSEMBLY (Includes item 8)	
8	052256	2	BUSHING, saddle	
9	052264	2	SADDLE, spring bolt	
10	065862	4	CAPSCREW, spring saddle (1-1/2"NF x 13-1/4")	
11	052263	4	NUT, high, 1-1/2"NF	
12	052267	1	PIN, spring pivot	
13	052259	1	PLATE, pivot pin retaining	
14	035229	2	CAPSCREW, 5/8"NF x 2"	
15	035281	2	WASHER, plain	
16	035073	3	CAPSCREW, 1/2"NF x 1-3/4"	
	904208	3	LOCKWASHER, 1/2"	
17	052260	1	WASHER, pivot pin	
18	035073	3	CAPSCREW, 1/2"NF x 1-3/4"	
	904208	3	LOCKWASHER, 1/2"	
19	052851	2	SEAT, spring	
20	012586	4	CAPSCREW, 1"NF x 3-1/2"	
21	600236	4	NUT, high, 1"NF	



RIGID BEAM

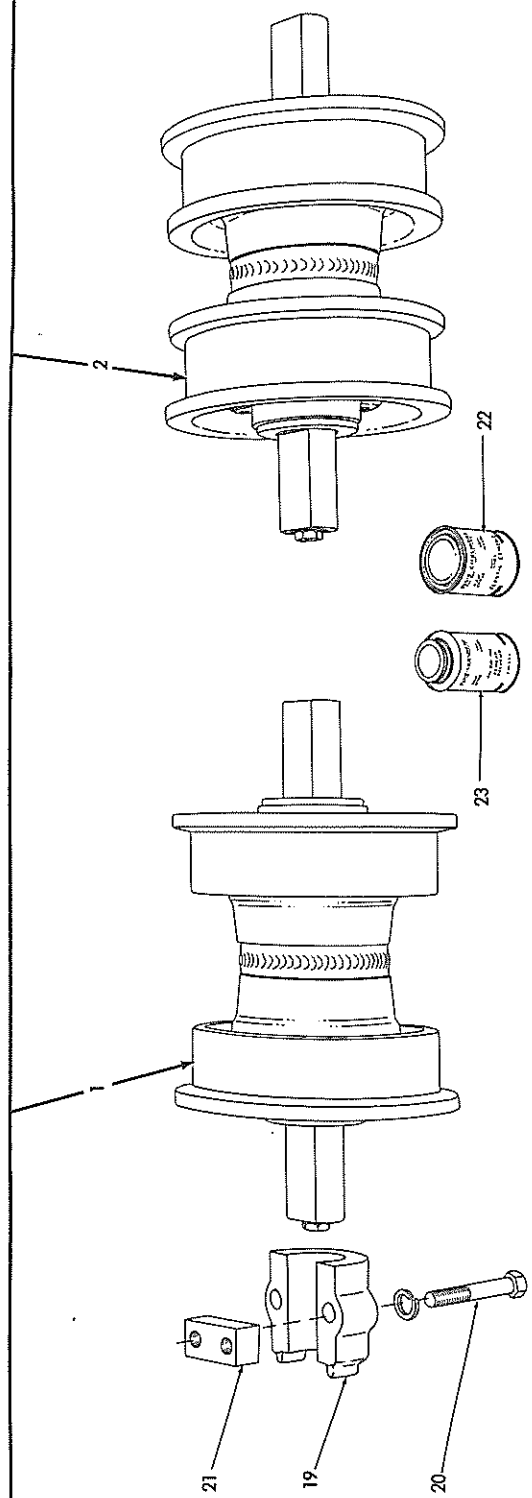
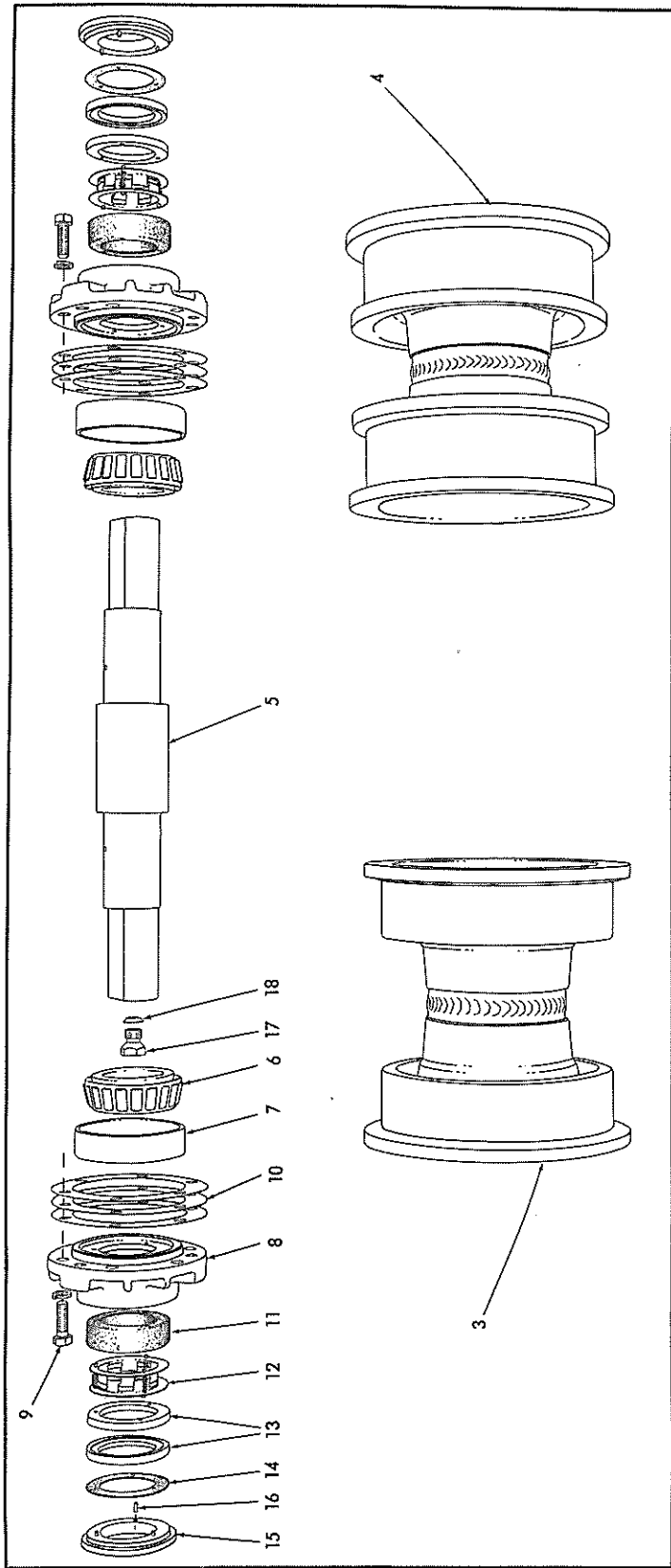
USAGE: For Models HD20F and HD20G only.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	073370	1	BEAM, rigid	
2	012586	8	CAPSCREW, 1"NF x 3-1/2"	
3	600236	8	NUT, high, 1"NF	
4	052264	4	SADDLE, spring bolt	
5	073371	4	CAPSCREW, spring saddle (1-1/2"NF x 12-3/8")	
	913077	4	LOCKWASHER, 1-1/2"	
6	052267	1	PIN, spring pivot	
7	052260	1	WASHER, pivot pin	
8	035073	3	CAPSCREW, 1/2"NF x 1-3/4"	
	904208	3	LOCKWASHER, 1/2"	
9	065860	1	SADDLE ASSEMBLY (Includes item 10)	
10	052256	2	BUSHING, saddle	
11	065862	4	CAPSCREW, spring saddle (1-1/2"NF x 13-1/4")	
12	052259	1	PLATE, pivot pin retaining	
13	035073	3	CAPSCREW, 1/2"NF x 1-3/4"	
	904208	3	LOCKWASHER, 1/2"	
14	035229	2	CAPSCREW, 5/8"NF x 2"	
15	035281	2	WASHER, plain	
16	052263	4	NUT, high, 1-1/2"NF	
17	073396	2	SHIM, spacing (1/16" thick. Use as req'd)	
	073397	4	SHIM, spacing (1/8" thick. Use as req'd)	
	073398	2	SHIM, spacing (1/4" thick. Use as req'd)	



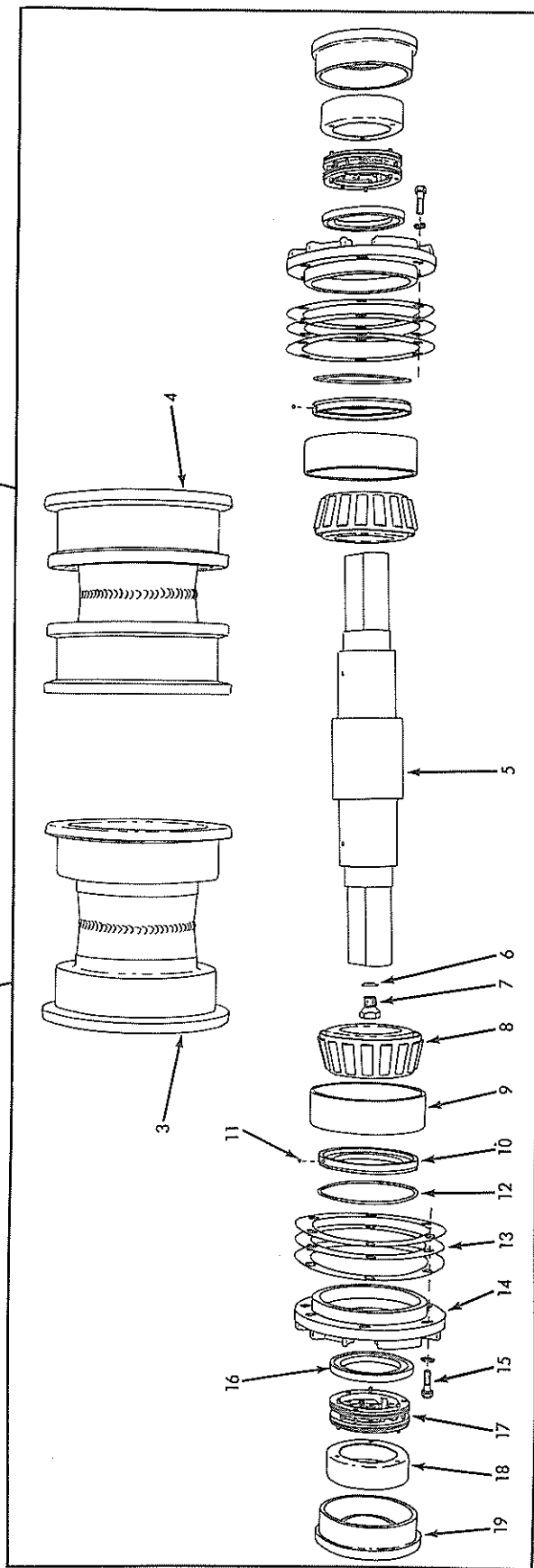
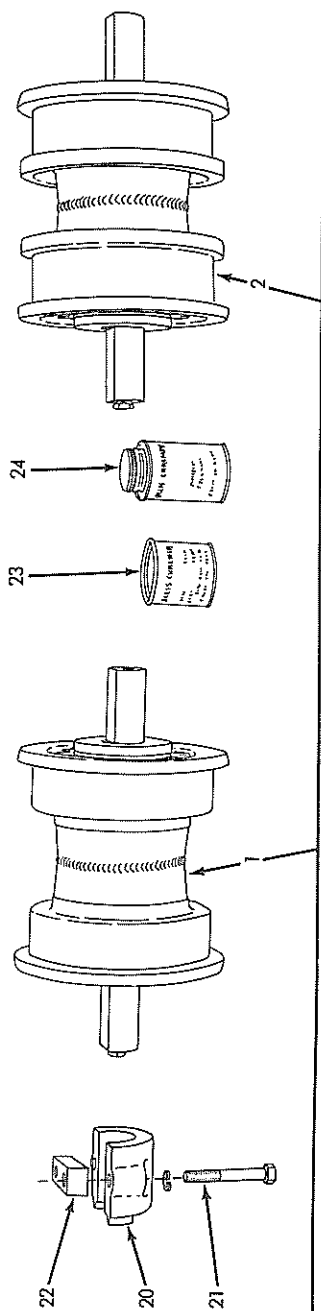
* Model HD20H
 ** Models HD20F and HD20G

ITEM	PART NUMBER	QUANTITY	DESCRIPTION	KIT NUMBER
1	078065	1	- FRAME ASSEMBLY, truck, left (137-5/8" long. Includes items 2 thru 6)	
	078066	1	- FRAME ASSEMBLY, truck, right (137-5/8" long. Includes items 2 thru 6)	
	078123	- 1	FRAME ASSEMBLY, truck, left (146-1/8" long. Includes items 2 thru 6)	
	078124	- 1	FRAME ASSEMBLY, truck, right (146-1/8" long. Includes items 2 thru 6)	
2	052080	2	SHAFT, pivot	
	907070	2	PLUG, pipe, ctsk-hd., 1/4"NPT	
3	052079	2	BUSHING, pivot shaft	
4	052078	4	SEAL, dirt, pivot shaft	
5	069810	2	CAP, sprocket shaft bearing	
6	052077	4	CAPSCREW, 1-1/4"NF x 6"	
	904210	4	LOCKWASHER, 1-1/4"	
7	051929	4	BAR, slide, track idler, upper	
8	053330	4	BAR, slide, track idler, lower	
9	053328	8	SHIM, lower slide bar (.030" thick. Use as req'd)	
	053329	4	SHIM, lower slide bar (.060" thick. Use as req'd)	
10	045621	24	CAPSCREW, slide bar attaching (thin-hd., 5/8"NF x 2-1/4")	
11	052085	2	COVER (Removed when mounting Allied Equipment)	
12	070469	2	CAPSCREW, 1/2"NF x 1-1/4"	
	904208	2	LOCKWASHER, 1/2"	
	911255	6	SETSCREW, socket-hd., cup-pt., 1/2"NC x 3/4"	
13	052144	4	BLOCK, tapped (For mounting Allied Equipment)	
14	035892	4	CAPSCREW, 1/2"NF x 2-1/2"	
	904208	4	LOCKWASHER, 1/2"	
15	053421	8	PLUG (For protecting Allied Equipment mounting holes)	
16	051910	2	- GUARD, outer (131-1/4" long)	
	073313	- 1	GUARD, outer, left (144-3/4" long)	
	073314	- 1	GUARD, outer, right (144-3/4" long)	
17	070285	24	CAPSCREW, 3/4"NF x 3"	
18	061689	24	WASHER, plain	
19	070285	4	CAPSCREW, 3/4"NF x 3"	
20	061689	4	WASHER, plain	
21	012767	4	NUT, high, 3/4"NF	
22	051911	1	- GUARD, inner, left (111-3/8" long)	
	073315	- 1	GUARD, inner, left (124-7/8" long)	
	051912	1	- GUARD, inner, right (111-3/8" long)	
	073316	- 1	GUARD, inner, right (124-7/8" long)	
23	070285	24	CAPSCREW, 3/4 NF x 3"	
24	061689	24	WASHER, plain	
25	070285	2	CAPSCREW, 3/4"NF x 3"	
26	061689	2	WASHER, plain	
27	012767	2	NUT, high, 3/4"NF	



* Model HD20H
 ** Models HD20F and HD20G

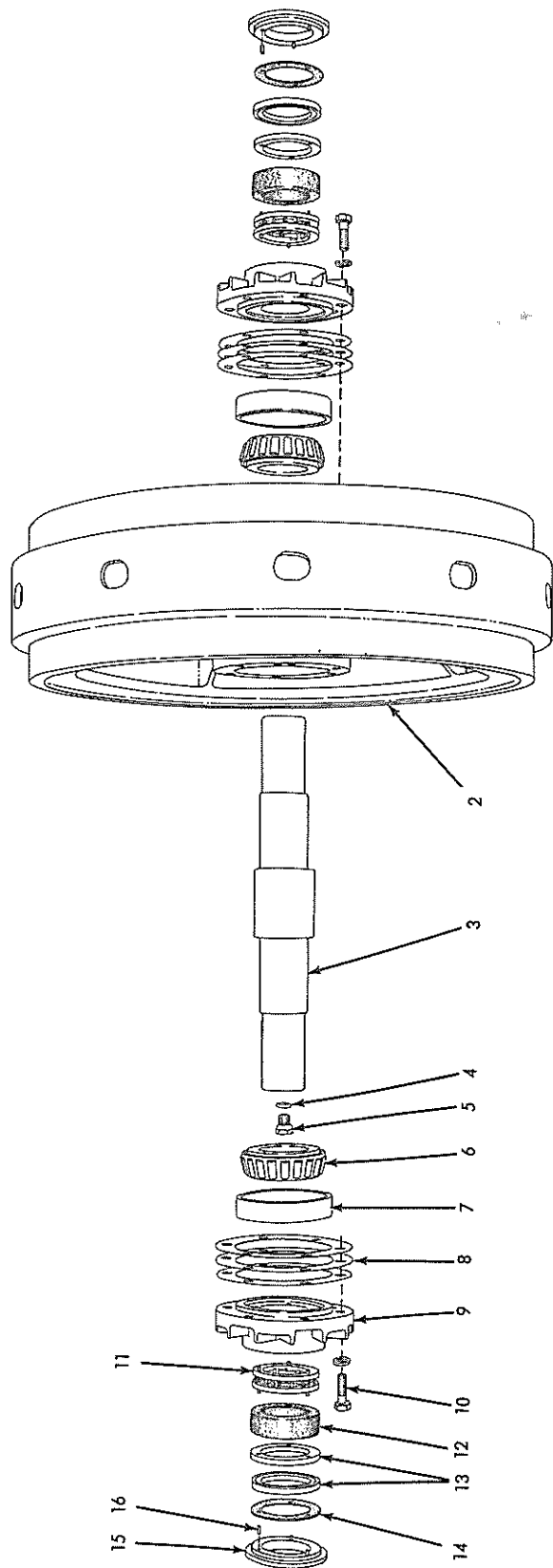
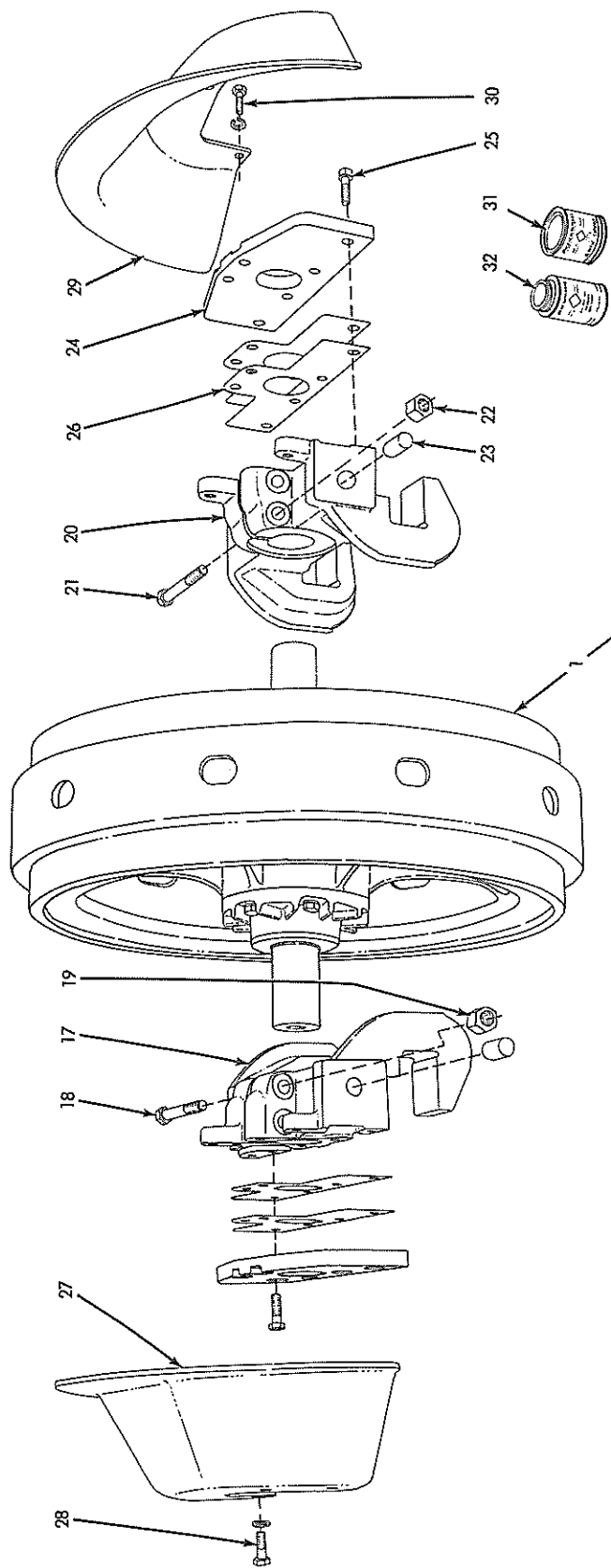
ITEM	PART NUMBER	QUANTITY	* **	DESCRIPTION	KIT NUMBER
1	066609	8	10	WHEEL ASSEMBLY, single flange (Consists of items 3, and 5 thru 18)	
2	066610	4	4	WHEEL ASSEMBLY, double flange (Consists of items 4 thru 18)	
3	066608	8	10	WHEEL, single flange	
4	066607	4	4	WHEEL, double flange	
5	051609	4	6	SHAFT (Marked "HD" on end)(Used in end wheels on tractors prior to #4640 only)	
	051135	12	14	SHAFT (Marked "S" on end)(8 used on tractors prior to #4640)	
6	066810	8	12	CONE ASSEMBLY, bearing (1-11/16" wide)(Used with SHAFT 051609 on tractors prior to #4640)	
	066813	24	28	CONE ASSEMBLY, bearing (1-7/16" wide)(16 used on tractors prior to #4640)	
7	068847	8	12	CUP, bearing (1-7/16" wide)(Used with SHAFT 051609 on tractors prior to #4640)	
	068848	24	28	CUP, bearing (1-3/16" wide, 4-13/16" O.D.)(Standard)(16 used on tractors prior to #4640)	
	042870	--	--	CUP, bearing (1-3/16" wide, 4-7/8" O.D.)(Special. For use in re-bored truck wheels only)	077329
8	051134	24	28	RETAINER, bearing (Standard size)	
	076919	--	--	RETAINER, bearing (Oversize. For use in rebored truck wheels only)	077329
9	035018	144	168	CAPSCREW, 1/2"NF x 1-1/2"	
	904208	144	168	LOCKWASHER, 1/2"	
10	077287	36	42	SHIM, bearing adjustment (.007" thick. Use as req'd)	077329
	077286	48	56	SHIM, bearing adjustment (.010" thick. Use as req'd)	077329
	077285	36	42	SHIM, bearing adjustment (.032" thick. Use as req'd)	077329
11	051112	24	28	BOOT, seal	076353
12	051121	24	28	SPRING ASSEMBLY, seal (Serviced only as a unit)	
13	-----	48	56	RING, seal (Order SEAL KIT 076353)	076353
14	051125	24	28	GASKET, seal ring	076353
15	051120	24	28	GUARD ASSEMBLY, seal (Includes item 16)	
16	051118	72	84	PIN, seal guard	
17	034042	12	14	PLUG, shaft oil hole	
18	034043	12	14	GASKET, oil hole plug	
19	051136	24	28	BRACKET, attaching	
20	071014	48	56	CAPSCREW, 3/4"NF x 4-1/2"	
	904369	48	56	LOCKWASHER, 3/4"	
21	051919	48	56	BLOCK, tapped, attaching capscrews	
22	033288	--	--	CEMENT, neoprene, 1/2 pint can	} For cementing seal boots and gaskets
23	054890	--	--	SOLVENT, neoprene cement, 1/2 pint can	



USAGE: Special Equipment. See page 147 for standard type.

* Model HD20H
** Models HD20F and HD20G

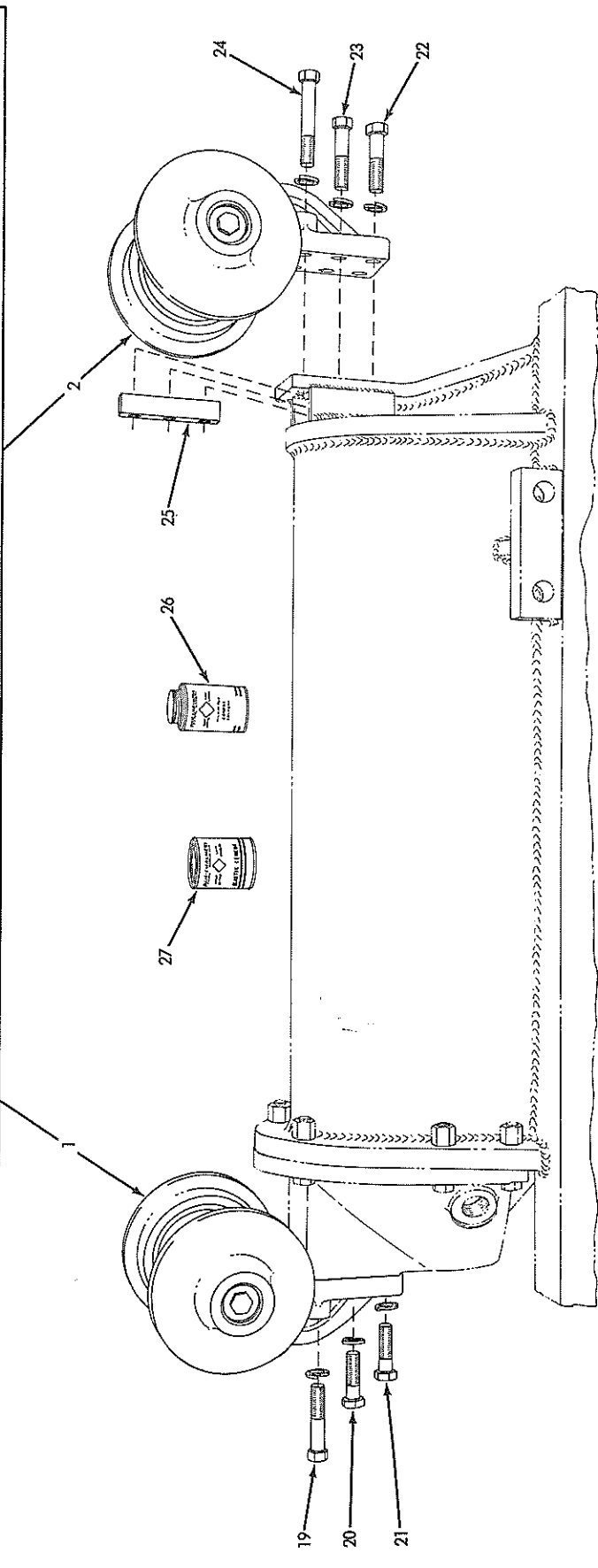
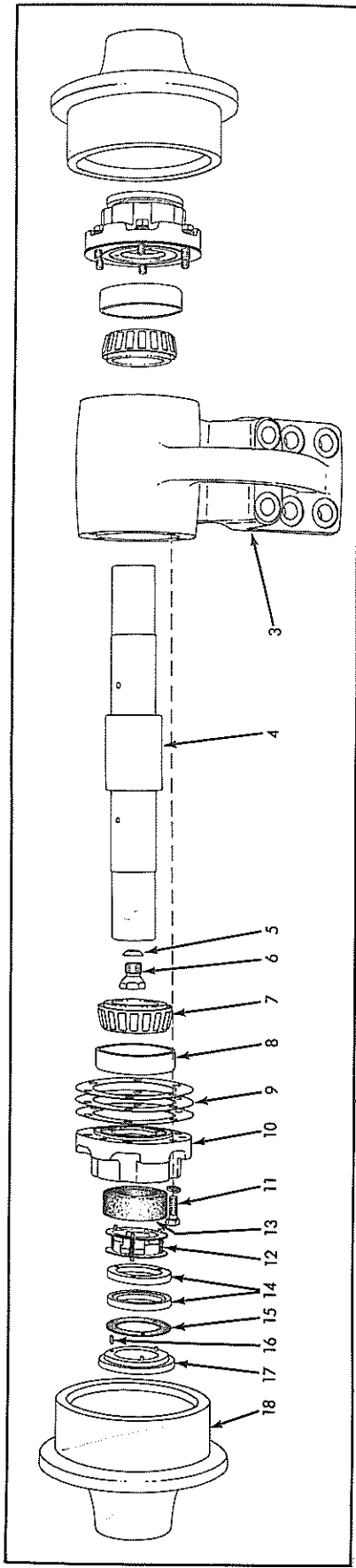
ITEM	PART NUMBER	QUANTITY * **	DESCRIPTION	KIT NUMBER
1	076270	8 10	WHEEL ASSEMBLY, single flange (Consists of items 3, and 5 thru 19)	
2	076271	4 4	WHEEL ASSEMBLY, double flange (Consists of items 4 thru 19)	
3	076301	8 10	WHEEL, single flange	
4	076302	4 4	WHEEL, double flange	
5	076300	12 14	SHAFT	
6	034043	12 14	GASKET, shaft oil hole plug	
7	034042	12 14	PLUG, shaft oil hole	
8	076296	24 28	CONE ASSEMBLY, bearing	
9	604398	24 28	CUP, bearing	
10	-----	24 28	RING, seal, inner (Order SEAL KIT 076334)	076334
11	905357	24 28	BALL, steel, 3/16" diam.	076334
12	076295	24 28	RING, seal packing	076334
13	{ 076294	48 56	SHIM, bearing adjustment (.007" thick. Use as req'd)	
	{ 076293	48 56	SHIM, bearing adjustment (.010" thick. Use as req'd)	
	{ 076292	48 56	SHIM, bearing adjustment (.032" thick. Use as req'd)	
14	076299	24 28	RETAINER, bearing	
15	035018	144 168	CAPSCREW, 1/2"NF x 1-1/2"	
	904208	144 168	LOCKWASHER, 1/2"	
16	-----	24 28	RING, seal, outer (Order SEAL KIT 076334)	076334
17	051959	24 28	SPRING ASSEMBLY, seal (Serviced only as a unit)	
18	051629	24 28	BOOT, seal spring	076334
19	076298	24 28	RETAINER, seal	
20	051136	24 28	BRACKET, attaching	
21	071014	48 56	CAPSCREW, 3/4"NF x 4-1/2"	
	904369	48 56	LOCKWASHER, 3/4"	
22	051919	48 56	BLOCK, tapped, attaching capscrews	
23	033288	-- --	CEMENT, neoprene, 1/2 pint can	} For cementing seal boots and gaskets
24	054890	-- --	SOLVENT, neoprene cement, 1/2 pint can	



* Standard type. Not used on Models HD20F and HD20G serial No. 6019 and up.

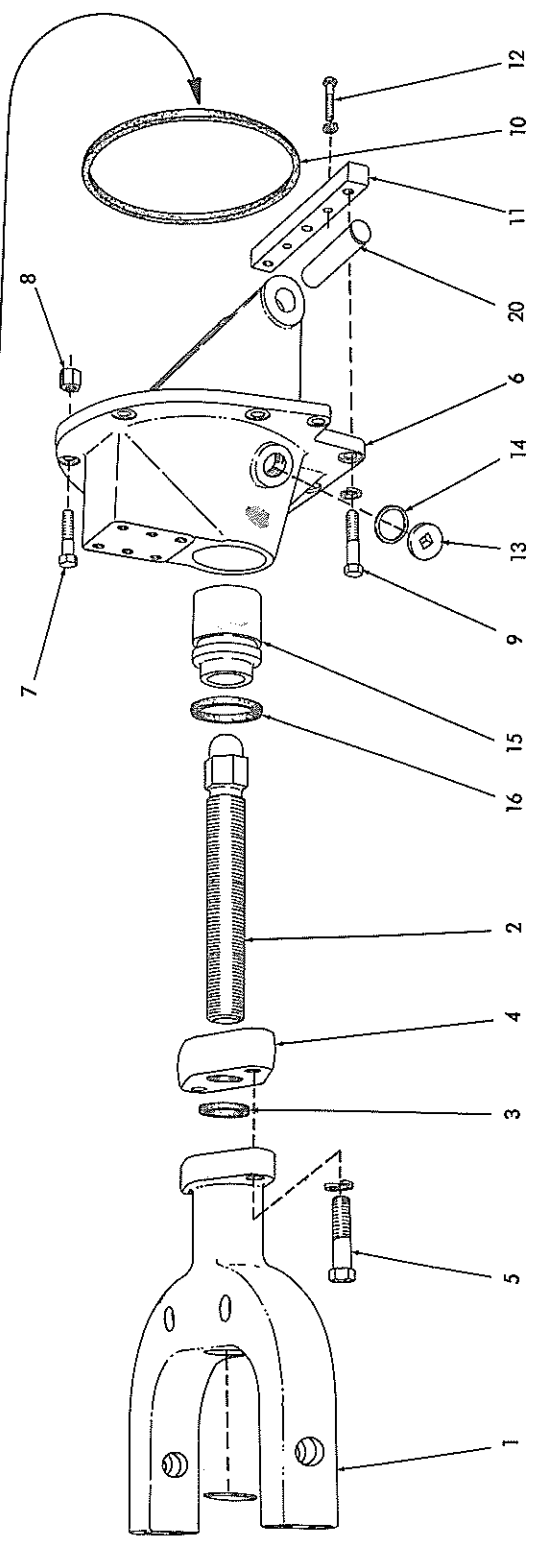
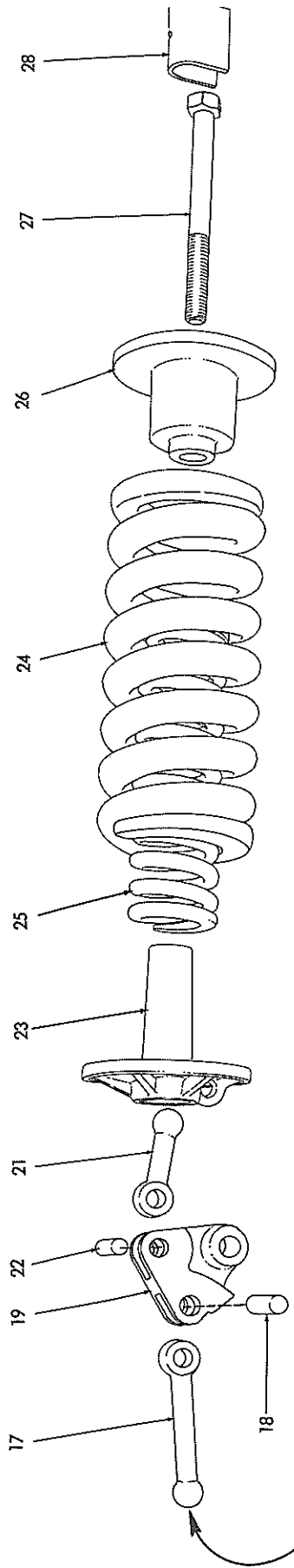
** Heavy-duty type. Standard equipment on Models HD20F and HD20G serial No. 6019 and up.

ITEM	PART NUMBER	QUANTITY	* **	DESCRIPTION	KIT NUMBER
1	{ 051633	2	-	IDLER ASSEMBLY, track (Consists of items 2 thru 16)	
	{ 081445	-	2	IDLER ASSEMBLY, track (Consists of items 2 thru 16)	
2	{ 051632	2	-	IDLER only	
	{ 081352	-	2	IDLER only	
3	051621	2	2	SHAFT	
4	034043	2	2	GASKET, shaft oil hole plug	
5	034042	2	2	PLUG, shaft oil hole	
6	051630	4	4	CONE ASSEMBLY, bearing	
7	051631	4	4	CUP, bearing	
8	{ 051614	6	6	SHIM, bearing adjustment (.032" thick. Use as req'd)	
	{ 051615	6	6	SHIM, bearing adjustment (.010" thick. Use as req'd)	
	{ 051616	6	6	SHIM, bearing adjustment (.007" thick. Use as req'd)	
9	051617	4	4	RETAINER, bearing	
10	023465	24	24	CAPSCREW, 5/8"NF x 1-3/4"	
	904209	24	24	LOCKWASHER, 5/8"	
11	051959	4	4	SPRING ASSEMBLY, seal (Serviced only as a unit)	
12	051629	4	4	BOOT, seal	076354
13	-----	8	8	RING, seal (Order SEAL KIT 076354)	076354
14	051622	4	4	GASKET, seal ring	076354
15	051620	4	4	GUARD ASSEMBLY, seal (Includes item 16)	
16	051964	12	12	PIN, seal guard	
17	067183	2	2	BRACKET ASSEMBLY, left (Includes item 23)	
18	051634	4	4	CAPSCREW, 3/4"NF x 5-3/4"	
19	012767	4	4	NUT, high, 3/4"NF	
20	067184	2	2	BRACKET ASSEMBLY, right (Includes item 23)	
21	051634	4	4	CAPSCREW, 3/4"NF x 5-3/4"	
22	012767	4	4	NUT, high, 3/4"NF	
23	051647	4	4	PIN, dowel, idler bracket	
24	077879	4	4	PLATE, guide	
25	034683	24	24	CAPSCREW (thin-hd., 5/8"NF x 1-3/4")	
26	{ 051640	4	4	SHIM, guide plate (.062" thick. Use as req'd)	
	{ 051643	8	8	SHIM, guide plate (.031" thick. Use as req'd)	
27	{ 067185	2	-	GUARD, left	
	{ 080417	-	2	GUARD, left	
28	{ 035014	6	-	CAPSCREW, 5/8"NF x 1-1/2"	
	{ 035229	-	6	CAPSCREW, 5/8"NF x 2"	
	{ 904209	6	6	LOCKWASHER, 5/8"	
29	{ 067186	2	-	GUARD, right	
	{ 080418	-	2	GUARD, right	
30	{ 035014	6	-	CAPSCREW, 5/8"NF x 1-1/2"	
	{ 035229	-	6	CAPSCREW, 5/8"NF x 2"	
	{ 904209	6	6	LOCKWASHER, 5/8"	
31	033288	-	-	CEMENT, neoprene, 1/2 pint can	} For cementing seal boots and gaskets
32	054890	-	-	SOLVENT, neoprene cement, 1/2 pint can	

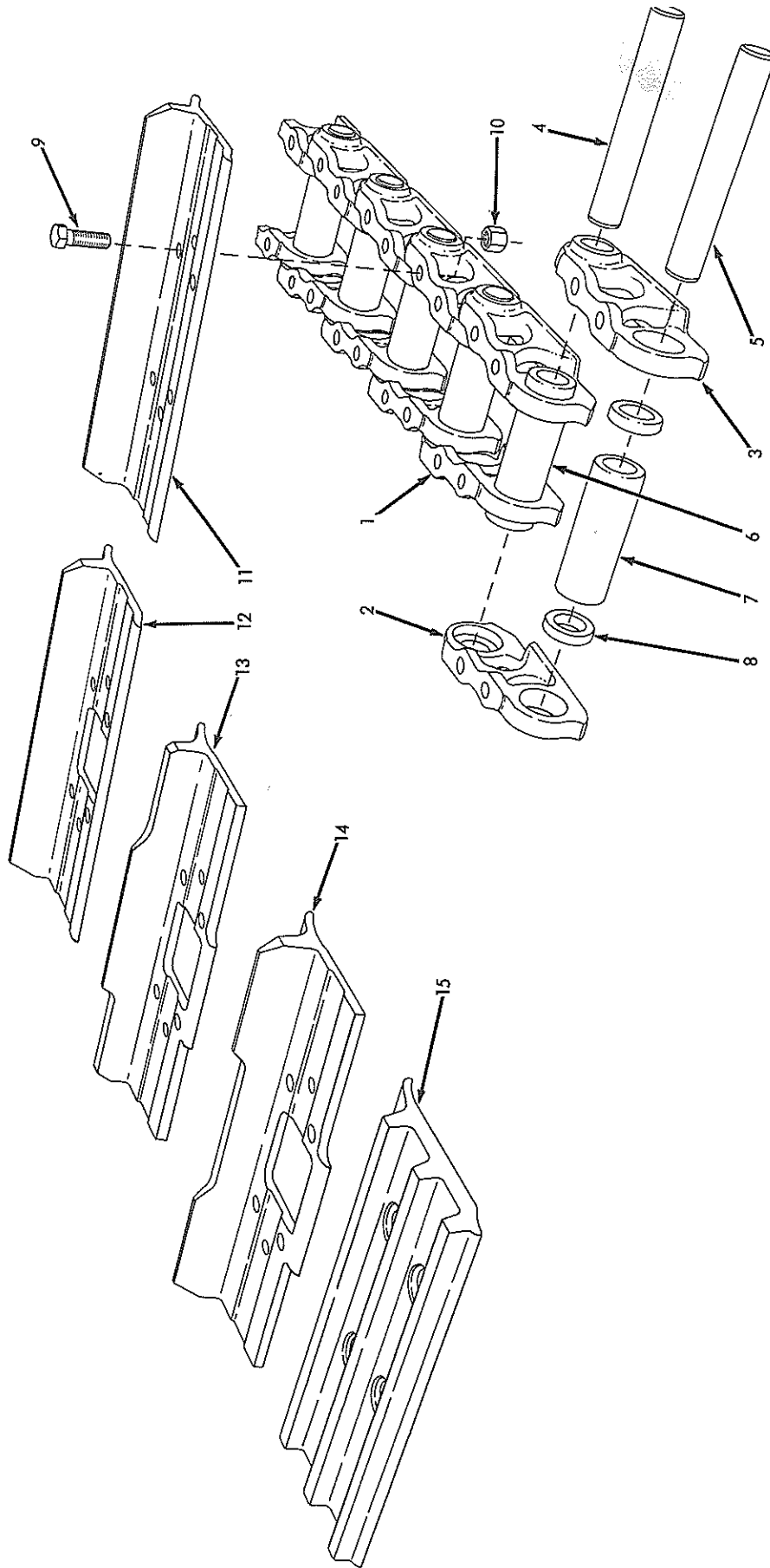


NOTE: When making first replacement of items 1, 2 or 3 on tractors prior to #4765, also order 2 CAPSCREWS 013095 if for front position, or 2 CAPSCREWS 035423 if for rear position.

1	078079	2	ROLLER ASSEMBLY, track supporting, left front and right rear (Consists of items 3 thru 18)(See NOTE above)	
2	078080	2	ROLLER ASSEMBLY, track supporting, right front and left rear (Consists of items 3 thru 18)(See NOTE above)	
3	077504	4	BRACKET (See NOTE above)	
4	051806	4	SHAFT	
5	034043	4	GASKET, oil hole plug	
6	034042	4	PLUG, shaft oil hole	
7	043491	8	CONE ASSEMBLY, bearing	
8	210740	8	CUP, bearing	
9	051803	16	SHIM, bearing adjustment (.007" thick. Use as req'd)	
	051804	16	SHIM, bearing adjustment (.010" thick. Use as req'd)	
	051805	8	SHIM, bearing adjustment (.032" thick. Use as req'd)	
10	051808	8	RETAINER, bearing	
11	013058	48	CAPSCREW, 3/8"NC x 1-1/4"	
	904206	48	LOCKWASHER, 3/8"	
12	048666	8	SPRING ASSEMBLY, seal (Serviced only as a unit)	083213
13	048665	8	BOOT, seal	083213
14	048658	16	RING, seal	083213
15	050251	8	GASKET, seal ring	083213
16	049877	24	PIN, seal guard	
17	051811	8	GUARD ASSEMBLY, seal (Includes item 16)	
18	051809	8	ROLLER	
19	070792	4	CAPSCREW, 3/4"NC x 2-1/2" (Used prior to tractor #4765)	
	013095	4	CAPSCREW, 3/4"NC x 3-1/2" (Tractors #4765 and up)	
	904369	4	LOCKWASHER, 3/4"	
20	070792	4	CAPSCREW, 3/4"NC x 2-1/2" (Started with tractor #4765 on Model HD20H, and with tractor #4899 on Models HD20F and HD20G)	
	904369	4	LOCKWASHER, 3/4"	
21	070792	4	CAPSCREW, 3/4"NC x 2-1/2"	
	904369	4	LOCKWASHER, 3/4"	
22	012984	4	CAPSCREW, 3/4"NF x 2-3/4" (Used prior to tractor #4765 on Model HD20H, and prior to tractor #4899 on Models HD20F and HD20G)	
	012767	4	NUT, high, 3/4"NF	
	012526	4	CAPSCREW, 3/4"NF x 3" (Started with tractor #4765 on Model HD20H, and with tractor #4899 on Models HD20F and HD20G)	
	904369	4	LOCKWASHER, 3/4"	
23	012526	4	CAPSCREW, 3/4"NF x 3" (Started with tractor #4765 on Model HD20H, and with tractor #4899 on Models HD20F and HD20G)	
	904369	4	LOCKWASHER, 3/4"	
24	012984	4	CAPSCREW, 3/4"NF x 2-3/4" (Used prior to tractor #4765 on Model HD20H, and prior to tractor #4899 on Models HD20F and HD20G)	
	012767	4	NUT, high, 3/4"NF	
	035423	4	CAPSCREW, 3/4"NF x 4-1/4" (Started with tractor #4765 on Model HD20H, and with tractor #4899 on Models HD20F and HD20G)	
	904369	4	LOCKWASHER, 3/4"	
25	078082	4	BLOCK, tapped, attaching capscrews (Started with tractor #4765 on Model HD20H and with tractor #4899 on Models HD20F and HD20G)	
26	054890	-	SOLVENT, neoprene cement, 1/2 pint can	} For cementing seal boots and gaskets
27	033288	-	CEMENT, neoprene, 1/2 pint can	



ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	051782	2	YOKE ASSEMBLY (Includes PLUG 910018)	
	910018	2	PLUG, expansion, 3" diam.	
2	051785	2	SCREW, adjustment (17" long)(For Model HD20H)	
	073063	2	SCREW, adjustment (30-1/2" long)(For Models HD20F and HD20G)	
3	066066	2	SEAL, protecting, adjustment screw threads (rubber)	
4	051787	2	LOCK, adjustment screw	
5	073424	4	CAPSCREW, 1"NF x 4"	
	910916	4	LOCKWASHER, 1"	
6	078083	2	GUIDE, crosshead	
7	012984	12	CAPSCREW, 3/4"NF x 2-3/4"	
8	012767	12	NUT, high, 3/4"NF	
9	012526	6	CAPSCREW, 3/4"NF x 3"	
	904369	6	LOCKWASHER, 3/4"	
10	051786	2	GASKET, crosshead guide	
11	051812	2	BLOCK, tapped, crosshead guide mounting	
12	035712	4	CAPSCREW, 1/2"NC x 2-1/4"	
	904208	4	LOCKWASHER, 1/2"	
13	035250	4	PLUG, crosshead guide filling hole	
14	035249	4	GASKET, crosshead guide filling hole plug	
15	051793	2	CROSSHEAD	
16	051794	2	SEAL, crosshead	
17	051797	2	ROD, push, front	
18	051798	2	PIN, front push rod	
19	066062	2	BELLCRANK	
20	051799	2	PIN, bellcrank pivot	
21	051796	2	ROD, push, rear	
22	051798	2	PIN, rear push rod (3-3/16" long)	
23	051790	2	PLUNGER, spring	
24	051800	2	SPRING, outer	
25	059179	2	SPRING, inner	
26	064820	2	SEAT, spring	
27	064819	2	CAPSCREW, spring adjustment	
28	051795	2	LOCK, spring adjustment capscREW	



TRACK

* Model HD20H
 ** Model HD20F
 *** Model HD20G

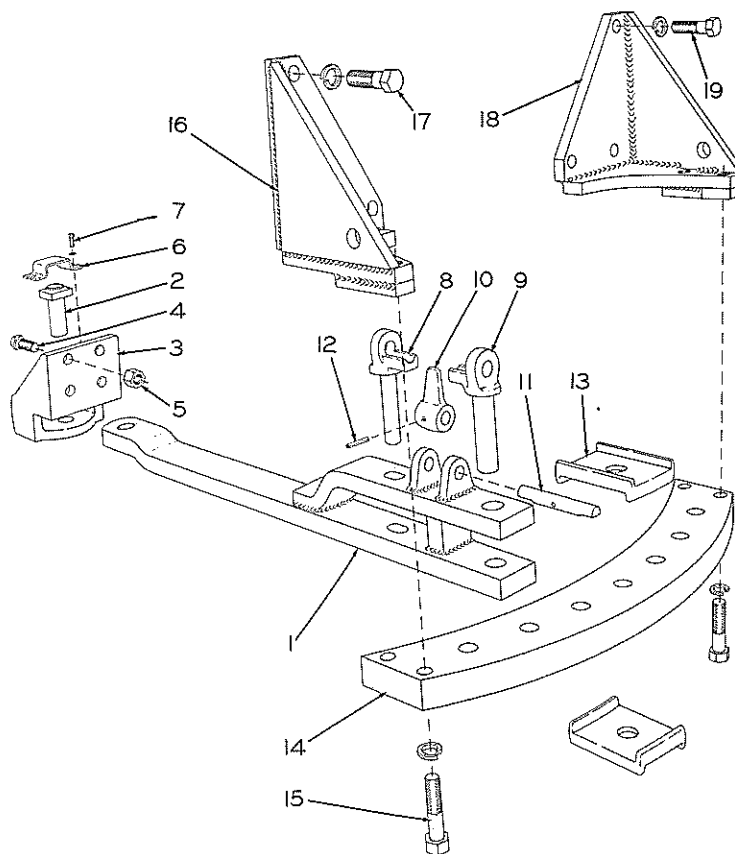
ITEM	PART NUMBER	QUANTITY			DESCRIPTION	KIT NUMBER
		*	**	***		
1	051868	2	-	-	RAIL ASSEMBLY (37 links)(Consists of items 2 thru 8)	
	069963	-	2	2	RAIL ASSEMBLY (40 links)(Consists of items 2 thru 8)	
2	079597	74	80	80	BAR - left	
3	079598	74	80	80	BAR - right	
4	079601	72	78	78	PIN (11-5/8" long)	.057715 074655
5	079603	2	2	2	PIN, master (11-15/16" long)	.057715 074655
6	079600	72	78	78	BUSHING (9-1/8" long)	.057714 074656
7	079602	2	2	2	BUSHING, master (7-13/16" long)	.057714 074656
8	079599	4	4	4	SPACER, master bushing	.057714 074656
9	043481	296	320	320	BOLT, track shoe (7/8"NF x 2-5/8")	
10	070400	296	320	320	NUT, high, 7/8"NF	

TRACK SHOES

COMPLETE TRACK ASSEMBLIES WITH SHOES (2 Required)

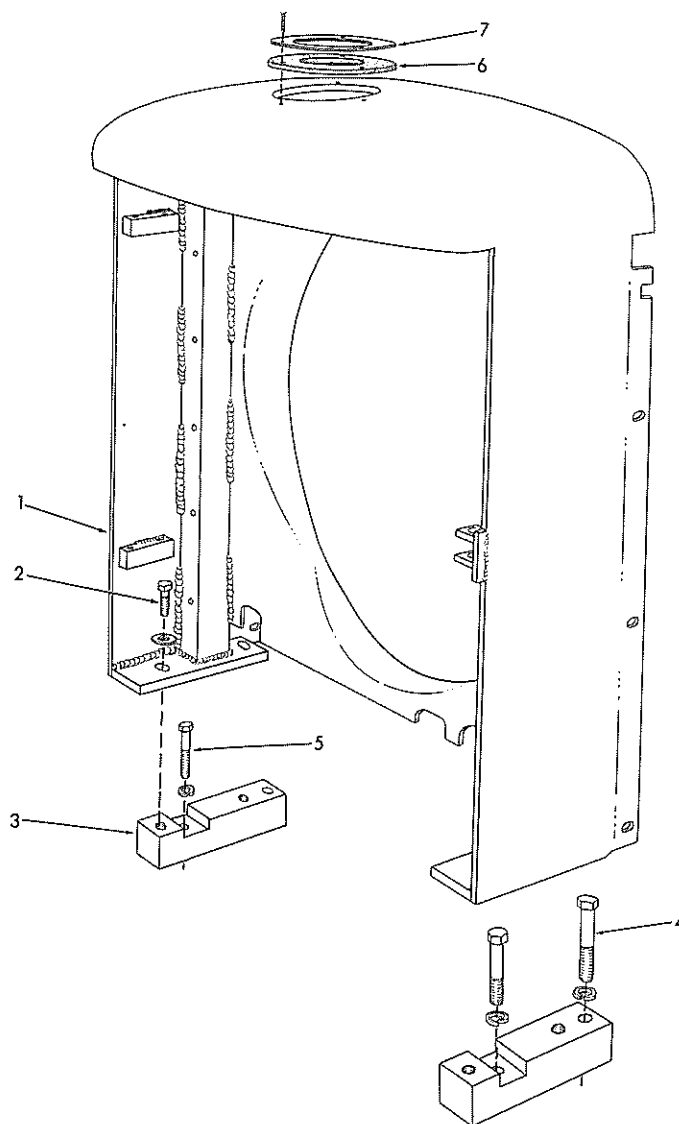
					*	**	***
					(37 Links)	(40 Links)	(40 Links)
11	073460	74	-	-	SHOE, grouser, 22"	073462	.. .. .
	069531	--	-	40	SHOE, grouser, 22", left . . . . .	.. .. .	073011
	069532	--	-	40	SHOE, grouser, 22", right . . . . .	.. .. .	073012
	051670	74	80	--	SHOE, grouser, 24"	051669	.. 074006
	057594	74	80	--	SHOE, grouser, 26"	057596	.. 074008
	057615	74	80	--	SHOE, grouser, 28"	057617	.. 074011
12	069111	74	--	--	SHOE, grouser, 30"	069113	.. .. .
	057544	74	--	--	SHOE, grouser, cut-out, 24"	057546	.. .. .
	057558	74	--	--	SHOE, grouser, cut-out, 26"	057560	.. .. .
13	057648	74	--	--	SHOE, grouser, cut-out, 28"	057652	.. .. .
	057700	38	--	--	SHOE, grouser, snow and ice, single calk, cut-out, 24"	057702	.. .. .
14	057699	36	--	--	SHOE, grouser, snow and ice, double calk, cut-out, 24"		
15	076163	--	--	40	SHOE, semi-grouser, 22", left . . . . .	.. .. .	076263
	076164	--	--	40	SHOE, semi-grouser, 22", right . . . . .	.. .. .	076264

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.



DRAWBAR

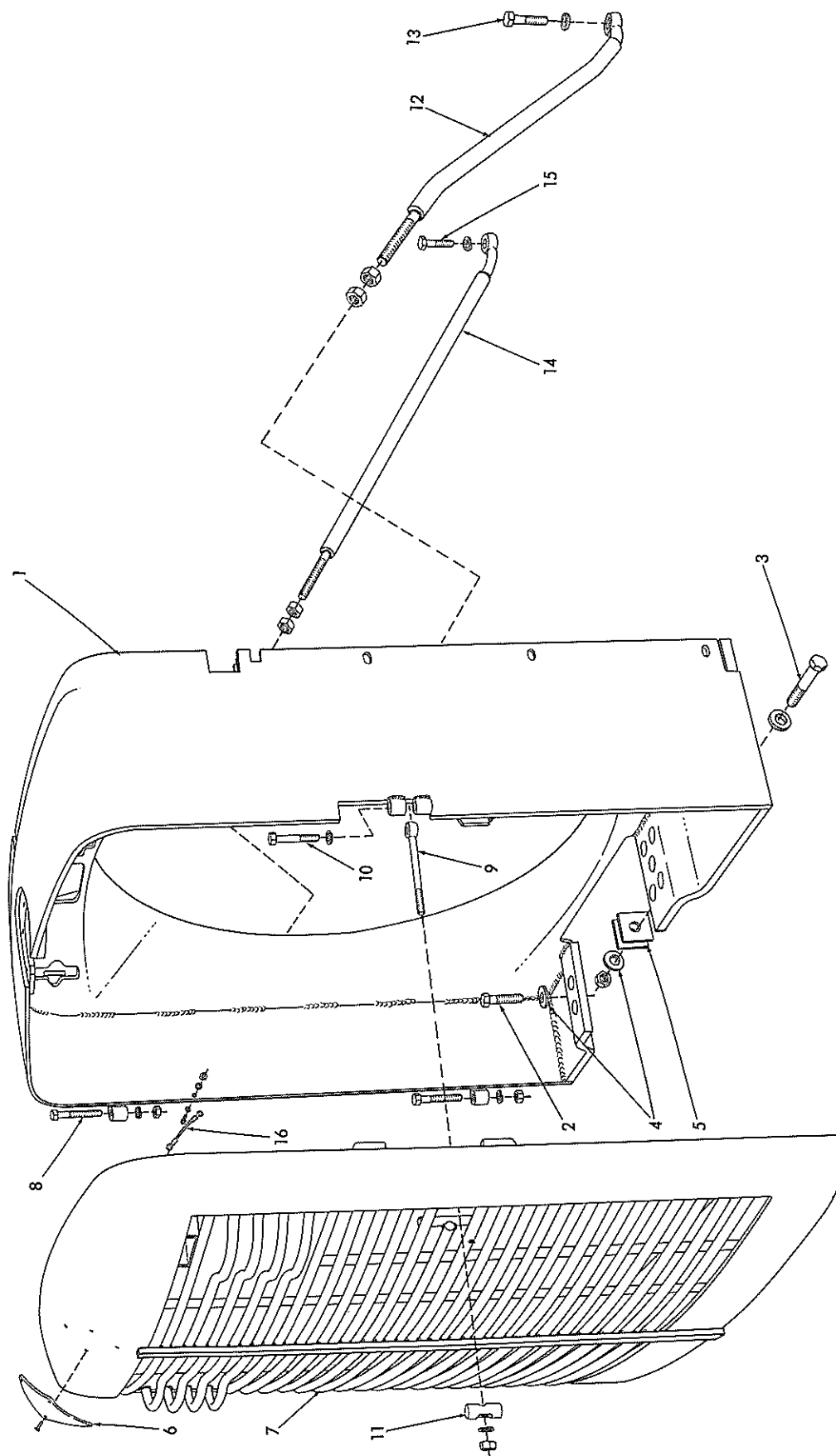
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	052027	1	DRAWBAR	
2	056995	1	PIN, hinge	
3	052187	1	BRACKET, hinge pin	
4	052361	4	CAPSCREW, 1-1/4"NF x 4"	
5	052362	4	NUT, high, 1-1/4"NF	
6	052155	1	PLATE, hinge pin retaining	
7	070469	2	CAPSCREW, 1/2"NF x 1-1/4"	
	904208	2	LOCKWASHER, 1/2"	
8	052366	1	PIN, drawbar locking	
9	052367	1	PIN, drawbar coupling	
10	052069	1	ARM, locking, drawbar pins	
11	078865	1	SHAFT, drawbar pin locking arm (When making first replacement on tractors prior to #5771 also order 1 PIN 916190)	
12	916190	1	PIN, roll, 3/8" x 2-3/4"	
13	052147	2	SHOE, wear (Tractors prior to #5204)	
	078951	2	SHOE, wear (Tractors #5204 and up)	
14	052240	1	PLATE, supporting (Tractors prior to #5204)	
	078741	1	PLATE, supporting (Tractors #5204 and up)	
15	047138	4	CAPSCREW, 1-1/4"NF x 5"	
	904210	4	LOCKWASHER, 1-1/4"	
16	052043	1	BRACKET, supporting plate, left	
17	052361	3	CAPSCREW, 1-1/4"NF x 4"	
	904210	3	LOCKWASHER, 1-1/4"	
18	052044	1	BRACKET, supporting plate, right	
19	052361	3	CAPSCREW, 1-1/4"NF x 4"	
	904210	3	LOCKWASHER, 1-1/4"	



RADIATOR SHELL

USAGE: Model HD20G only.

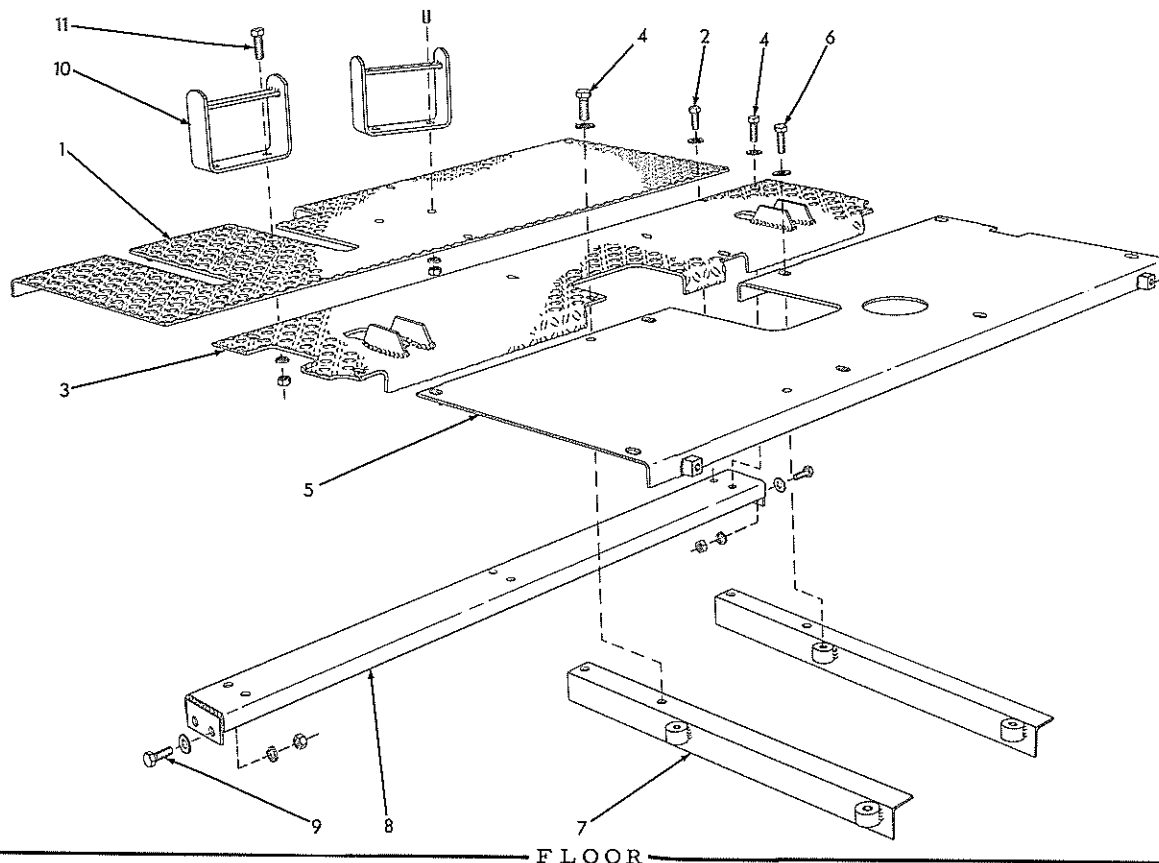
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	052940	1	SHELL, radiator	
2	072595	4	CAPSCREW, 3/4"NF x 1-3/4"	
	910255	4	WASHER, plain, SAE std., 3/4"	
3	074499	2	BLOCK, radiator shell spacing	
4	035423	2	CAPSCREW, 3/4"NF x 4-1/4"	
	904369	2	LOCKWASHER, 3/4"	
5	052527	2	CAPSCREW, 3/4"NF x 3-1/2"	
	904369	2	LOCKWASHER, 3/4"	
6	078745	1	SEAL, dirt, radiator neck (Started with tractor #5652)	
7	078746	1	PLATE, dirt seal retaining (Started with tractor #5652)	
	916192	3	SCREW, thread-cutting, hex-hd., 1/4"NC x 1-1/4"	



RADIATOR SHELL

* Model HD20H
 ** Model HD20F

ITEM	PART QUANTITY			DESCRIPTION	KIT NUMBER
	NUMBER	*	**		
1	076687	1	1	SHELL, radiator (When for tractors prior to #3095 also order 4 CAPSCREWS 036034)	
2	012984	4	4	CAPSCREW, 3/4"NF x 2-3/4"	
3	052527	1	1	CAPSCREW, 3/4"NF x 3-1/2"	
	911045	1	1	NUT, 3/4"NF	
4	061689	6	6	WASHER, plain	
5	074913	2	2	SHIM, shell mounting adjustment (1/16" thick. Use as req'd)	
	074914	2	2	SHIM, shell mounting adjustment (1/8" thick. Use as req'd)	
6	068642	1	1	MONOGRAM, A-C	
	911578	4	4	RIVET, fl-hd., 3/16" x 1/4"	
7	065750	1	1	GRILLE, radiator protecting	
8	055365	2	2	CAPSCREW, radiator grille hinge (5/8"NF x 3-1/2")	
	904209	2	2	LOCKWASHER, 5/8"	
	911044	2	2	NUT, 5/8"NF	
9	065935	1	1	BOLT, eye, grille latching	
	904208	1	1	LOCKWASHER, 1/2"	
	911028	1	1	NUT, 1/2"NC	
10	035278	1	1	CAPSCREW, eye bolt hinge (1/2"NF x 2-3/4")	
	904208	1	1	LOCKWASHER, 1/2"	
11	054899	1	1	PIN, grille latching bolt	
12	074609	1	-	ROD, shell bracing, left (42" long)(Tractors prior to #5318; also #5319, 5333, 5334, 5336 thru 5338)	
	079179	1	-	ROD, shell bracing, left (36" long)(Tractors #5318 and up; except #5319, 5333, 5334, 5336 thru 5338)	
	911046	2	-	NUT, 7/8"NF	
13	012984	1	-	CAPSCREW, 3/4"NF x 2-3/4"	
	904369	1	-	LOCKWASHER, 3/4"	
14	074610	1	-	ROD, shell bracing, right	
	911046	2	-	NUT, 7/8"NF	
15	012984	1	-	CAPSCREW, 3/4"NF x 2-3/4"	
	904369	1	-	LOCKWASHER, 3/4"	
16	079707	1	1	CABLE, grille grounding (4" long)(Started with tractor #5559)	
	912789	2	2	CAPSCREW, 1/4"NF x 3/4"	
	906958	2	2	LOCKWASHER, internal teeth, 1/4"	
	904204	2	2	LOCKWASHER, 1/4"	
	911040	2	2	NUT, 1/4"NF	



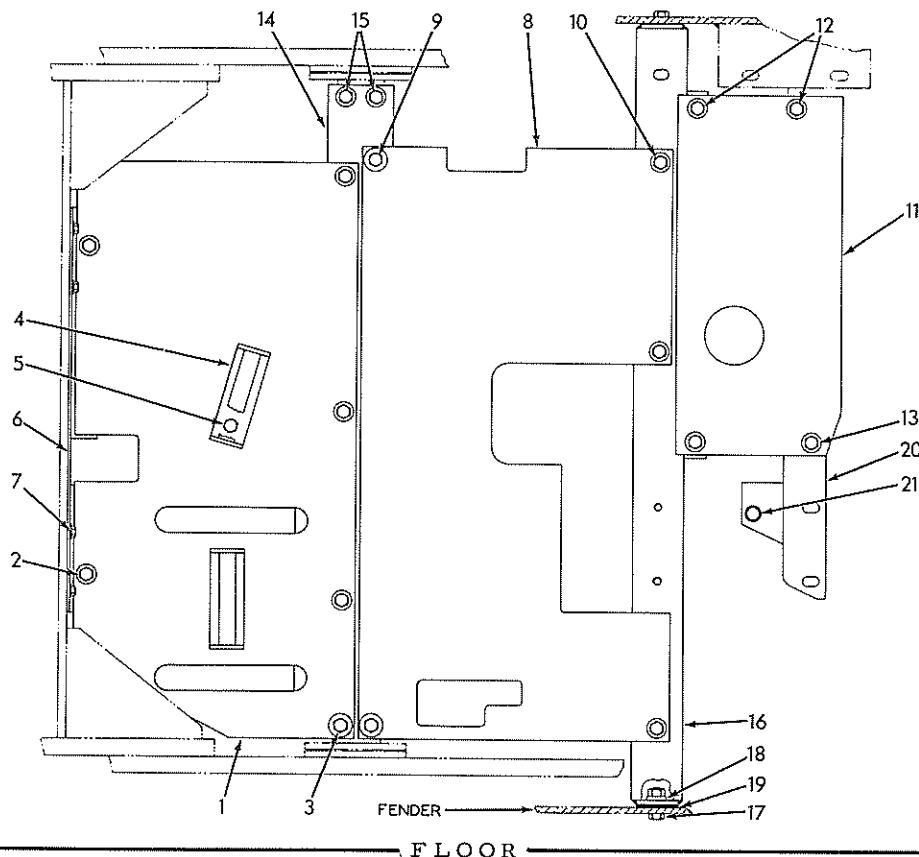
* Model HD20H tractors

** Model HD20G tractors prior to #6019 and all Model HD20F tractors.

ITEM	NUMBER	PART QUANTITY	DESCRIPTION	KIT NUMBER
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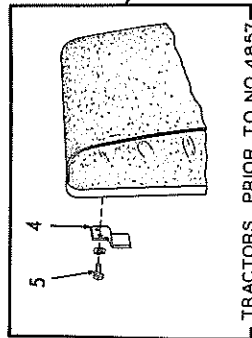
NOTE: For Model HD20F and HD20G floor parts other than those indicated below see TRACTOMOTIVE parts catalog.

1	{	073958	1	-	PLATE, front (Standard)	} Special. For use with Heavy-Duty Filter installation.
		065765	1	-	PLATE, front, left section	
		074670	1	-	PLATE, front, right section	
2		035061	9	-	CAPSCREW, 1/2"NC x 1-1/4"	} 1 extra used with special plates
		910244	9	-	WASHER, plain, SAE std., 1/2"	
3		053027	1	-	PLATE, center	
4		035061	9	-	CAPSCREW, 1/2"NC x 1-1/4"	} 1 extra used with special plates
		910244	9	-	WASHER, plain, SAE std., 1/2"	
5		074506	1	1	PLATE, rear	
6		035061	6	10	CAPSCREW, 1/2"NC x 1-1/4"	} 1 extra used with special plates
		910244	6	10	WASHER, plain, SAE std., 1/2"	
7		079322	2	2	ANGLE, supporting, center and rear floor plates	
8		053022	1	-	CHANNEL, supporting, front and center floor plates	
9		070469	4	-	CAPSCREW, 1/2"NF x 1-1/4"	} 1 extra used with special plates
		910244	4	-	WASHER, plain, SAE std., 1/2"	
		904208	4	-	LOCKWASHER, 1/2"	
		911043	4	-	NUT, 1/2"NF	
10		054374	2	-	REST, foot	
11		070469	4	-	CAPSCREW, 1/2"NF x 1-1/4"	} 1 extra used with special plates
		904208	4	-	LOCKWASHER, 1/2"	
		911043	4	-	NUT, 1/2"NF	

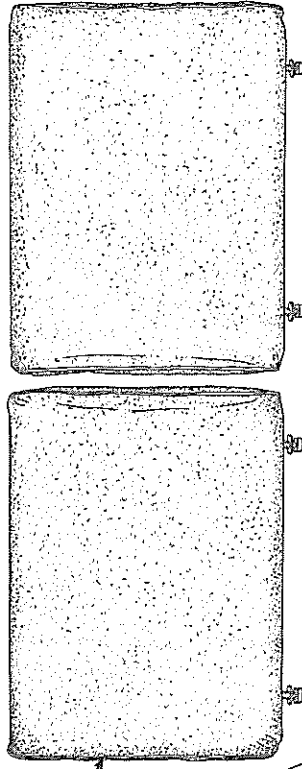


USAGE: Model HD20G tractors serial No. 6019 and up.

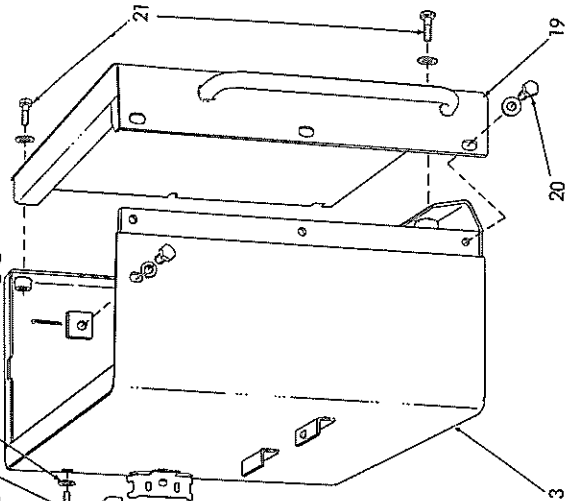
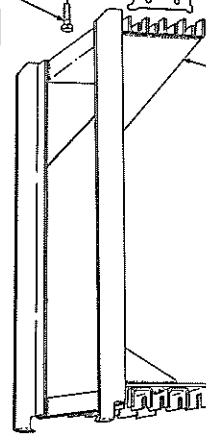
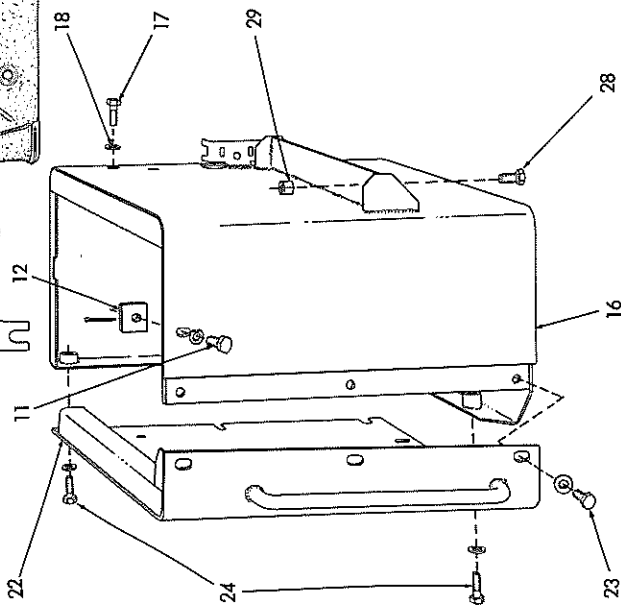
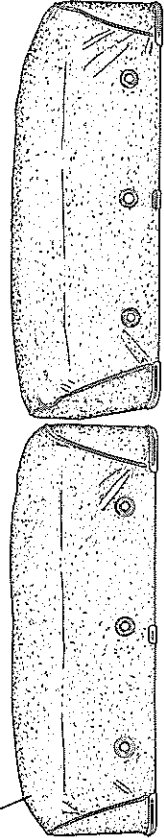
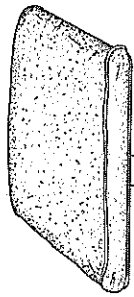
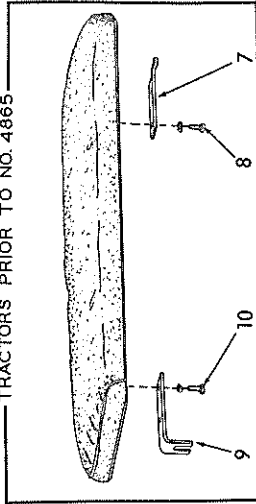
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	082032	1	PLATE, front	
2	035061	5	CAPSCREW, 1/2"NC x 1-1/4"	
	910244	5	WASHER, plain, SAE std., 1/2"	
3	035061	1	CAPSCREW, 1/2"NC x 1-1/4"	
	900818	1	WASHER, plain, U.S. std., 1/2"	
4	054374	2	REST, foot	
5	070469	4	CAPSCREW, 1/2"NF x 1-1/4"	
	904208	4	LOCKWASHER, 1/2"	
	911043	4	NUT, 1/2"NF	
6	080350	1	PLATE, supporting, front plate	
7	036032	4	CAPSCREW, 3/8"NF x 3/4"	
	911115	4	WASHER, plain, SAE std., 3/8"	
8	082033	1	PLATE, center	
9	035061	2	CAPSCREW, 1/2"NC x 1-1/4"	
	900818	2	WASHER, plain, U.S. std., 1/2"	
10	035061	3	CAPSCREW, 1/2"NC x 1-1/4"	
	910244	3	WASHER, plain, SAE std., 1/2"	
11	082034	1	PLATE, rear	
12	035061	3	CAPSCREW, 1/2"NC x 1-1/4"	
	910244	3	WASHER, plain, SAE std., 1/2"	
13	035061	1	CAPSCREW, 1/2"NC x 1-1/4"	
	910244	2	WASHER, plain, SAE std., 1/2"	
	911028	1	NUT, 1/2"NC	
14	078624	1	CHANNEL, supporting, front and center plates	
15	035061	2	CAPSCREW, 1/2"NC x 1-1/4"	
	910244	2	WASHER, plain, SAE std., 1/2"	
16	082010	1	CHANNEL, supporting, center and rear plates	
17	035018	4	CAPSCREW, 1/2"NF x 1-1/2"	
18	064531	4	WASHER, plain	
	911043	4	NUT, 1/2"NF	
19	082882	4	SHIM, support channel (Use as req'd)	
20	081973	1	BRACKET, supporting, rear plate	
21	035190	1	CAPSCREW, 1/2"NC x 1-1/2"	



TRACTORS PRIOR TO NO. 4857



TRACTORS PRIOR TO NO. 4865



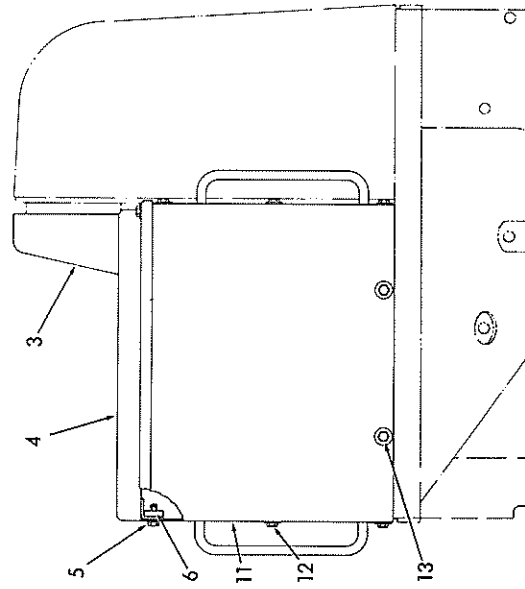
* Model HD20H

** Model HD20G tractors prior to #6019 and all Model HD20F tractors

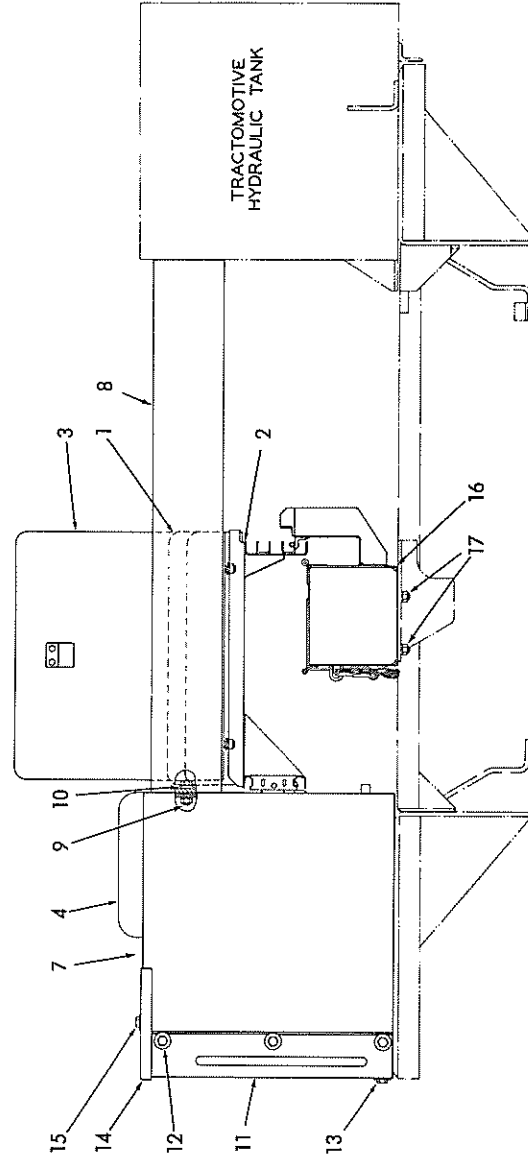
ITEM	PART QUANTITY		DESCRIPTION	KIT NUMBER
	NUMBER	* **		
1	052879	2 1	CUSHION, seat	
2	073222	1 1	FRAME, seat	
3	077305	2 1	CUSHION, back	
	911028	4 2	NUT, 1/2"NC	
	910244	4 2	WASHER, plain, SAE std., 1/2"	
4	051319	2 1	CLIP, back cushion retaining (Tractors prior to #4857)	
5	035244	4 2	CAPSCREW, 3/8"NC x 3/4"	
	904206	4 2	LOCKWASHER, 3/8"	
6	077390	2 2	CUSHION, arm	
7	052793	2 2	LOCK, arm cushion, rear (Tractors prior to #4865)	
8	035244	4 4	CAPSCREW, 3/8"NC x 3/4"	
	904206	4 4	LOCKWASHER, 3/8"	
9	050539	2 2	LOCK, arm cushion, front (Tractors prior to #4865)	
10	035244	4 4	CAPSCREW, 3/8"NC x 3/4"	
	904206	4 4	LOCKWASHER, 3/8"	
11	050510	2 2	CAPSCREW, arm cushion retaining (1/2"NF x 1-1/2")	
	904208	2 2	LOCKWASHER, 1/2"	
	900802	2 2	PIN, cotter, 3/32" x 1"	
12	050551	2 2	BLOCK, arm cushion retaining	
13	059695	1 1	BOX, battery, left	
14	035018	1 1	CAPSCREW, 1/2"NF x 1-1/2"	
15	064531	2 2	WASHER, plain	
	904208	1 1	LOCKWASHER, 1/2"	
	911043	1 1	NUT, 1/2"NF	
16	059692	1 1	BOX, battery, right	
17	035018	1 1	CAPSCREW, 1/2"NF x 1-1/2"	
18	064531	2 2	WASHER, plain	
	904208	1 1	LOCKWASHER, 1/2"	
	911043	1 1	NUT, 1/2"NF	
19	{ 065241	1 -	COVER, battery box, left	
	{ 074043	- 1	COVER, battery box, left	
20	067480	3 3	CAPSCREW, 1/2"NF x 3/4"	
21	070469	5 5	CAPSCREW, 1/2"NF x 1-1/4"	
	900818	8 8	WASHER, plain, U.S. std., 1/2"	
22	{ 065242	1 -	COVER, battery box, right	
	{ 074044	- 1	COVER, battery box, right	
23	067480	3 3	CAPSCREW, 1/2"NF x 3/4"	
24	070469	5 5	CAPSCREW, 1/2 NF x 1-1/4"	
	900818	8 8	WASHER, plain, U.S. std., 1/2"	
25	073225	1 1	BOX, tool	
26	035061	2 2	CAPSCREW, 1/2"NC x 1-1/4"	
	904208	2 2	LOCKWASHER, 1/2"	
27	035733	2 2	CAPSCREW, 1/2"NC x 1-3/8"	
	904208	2 2	LOCKWASHER, 1/2"	
28	070467	1 1	CAPSCREW, stop, seat cushion (1/2"NF x 1")	
29	038234	1 1	NUT, high, 1/2"NF	

NOTE: See PAINTING AND MARKING for identification transfer which is applied to sides of Seat.

SIDE VIEW

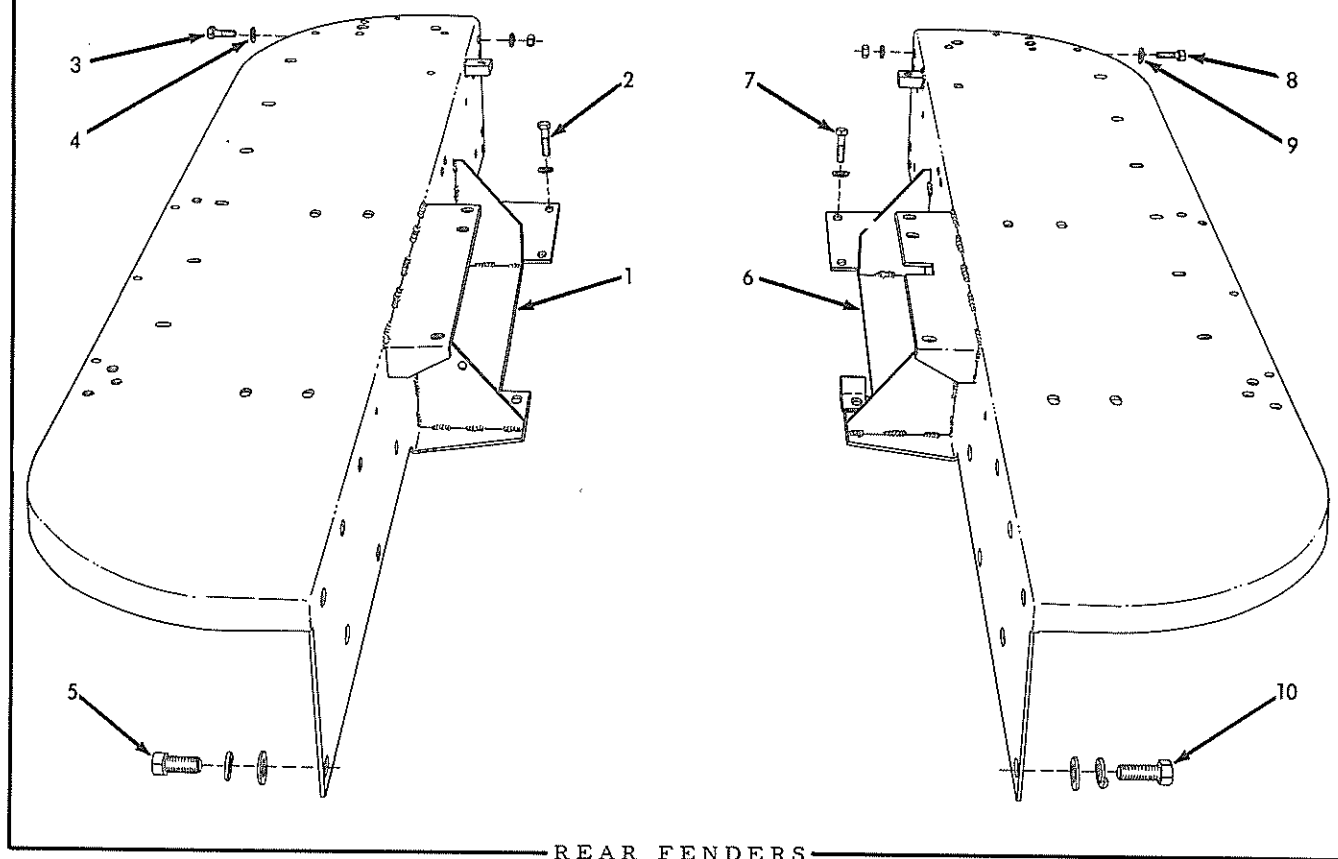


REAR VIEW



USAGE: Model HD20G tractors #6019 and up.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	052879	1	CUSHION, seat	
2	073222	1	FRAME, seat	
3	077305	1	CUSHION, back	
	910244	2	WASHER, plain, SAE std., 1/2"	
	911028	2	NUT, 1/2"NC	
4	077390	1	CUSHION, arm	
5	050510	1	CAPSCREW, arm cushion retaining (1/2"NF x 1-1/2")	
	904208	1	LOCKWASHER, 1/2"	
	900802	1	PIN, cotter, 3/32" x 1"	
6	050551	1	BLOCK, arm cushion retaining	
7	081996	1	BOX, battery	
8	081590	1	BRACE, battery box	
9	035073	3	CAPSCREW, 1/2"NF x 1-3/4"	
10	064531	3	WASHER, plain	
	904208	3	LOCKWASHER, 1/2"	
	911043	3	NUT, 1/2"NF	
11	080207	1	COVER, battery box side	
12	070467	6	CAPSCREW, 1/2"NF x 1"	
13	070469	2	CAPSCREW, 1/2"NF x 1-1/4"	
	900818	8	WASHER, plain, U.S. std., 1/2"	
14	080206	1	COVER, battery box top	
15	070467	2	CAPSCREW, 1/2"NF x 1"	
	900818	2	WASHER, plain, U.S. std., 1/2"	
16	073225	1	BOX, tool	
17	035061	4	CAPSCREW, 1/2"NC x 1-1/4"	
	900818	4	WASHER, plain, U.S. std., 1/2"	
	904208	2	LOCKWASHER, 1/2"	
	911028	2	NUT, 1/2"NC	

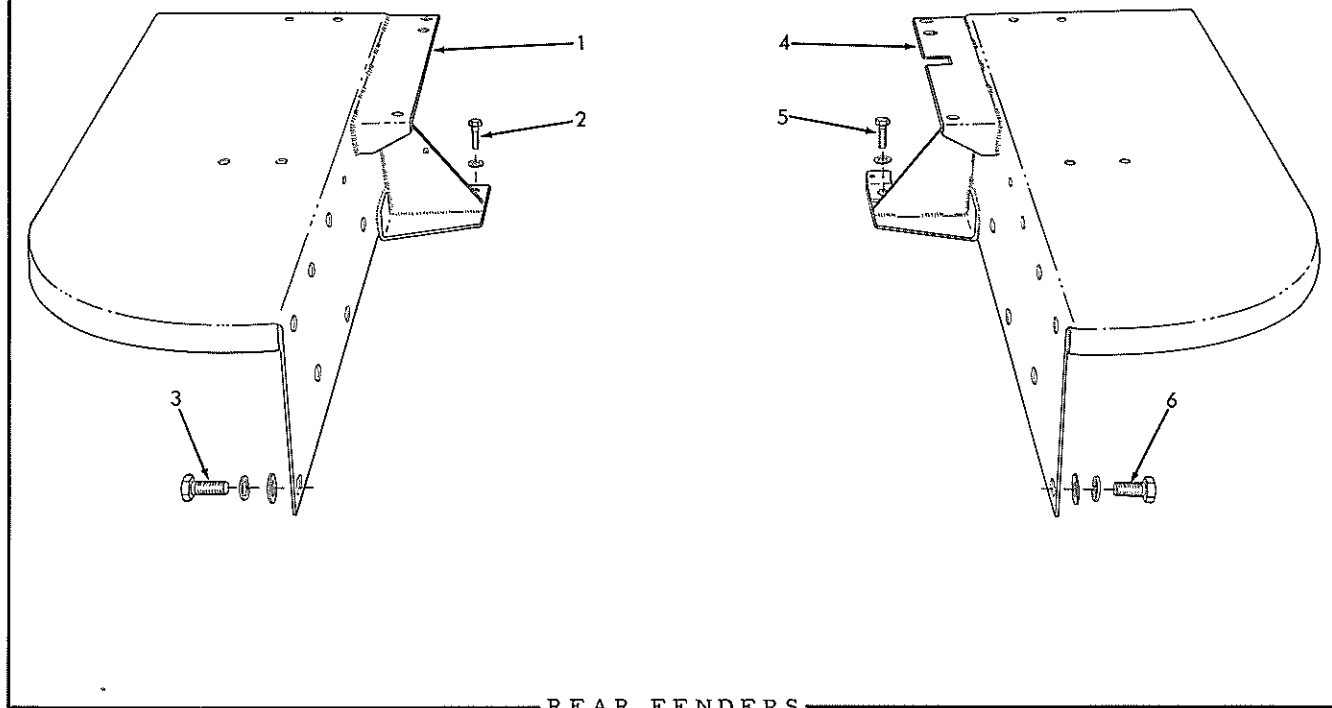


USAGE: Model HD20H only.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
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NOTE: See page 204 for special fenders used with FUEL TANK AND SEAT GUARD.

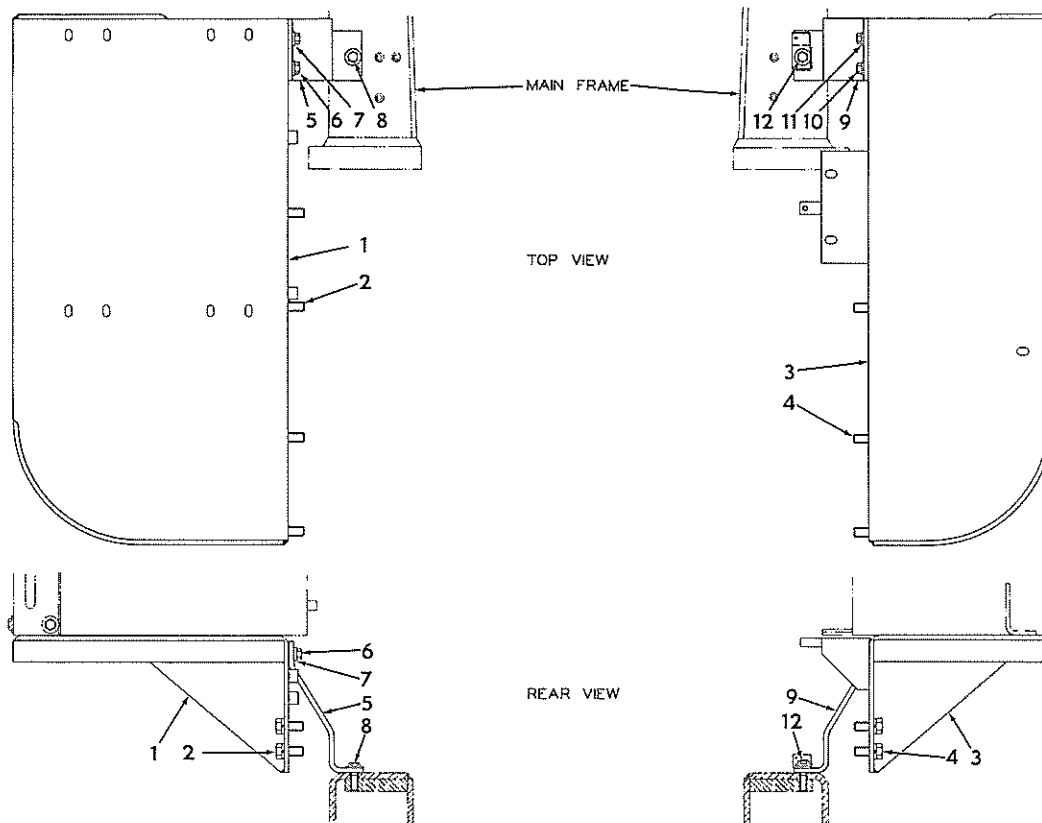
1	052875	1	FENDER, rear, left	
2	035073	3	CAPSCREW, 1/2"NF x 1-3/4"	
	910244	3	WASHER, plain, SAE std., 1/2"	
3	035018	2	CAPSCREW, 1/2"NF x 1-1/2"	
4	064531	2	WASHER, plain	
	904208	2	LOCKWASHER, 1/2"	
	911043	2	NUT, 1/2"NF	
5	072396	4	CAPSCREW, 3/4"NF x 1-1/2"	
	910255	4	WASHER, plain, SAE std., 3/4"	
	904369	4	LOCKWASHER, 3/4"	
6	052876	1	FENDER, rear, right	
7	035073	3	CAPSCREW, 1/2"NF x 1-3/4"	
	910244	3	WASHER, plain, SAE std., 1/2"	
8	035018	2	CAPSCREW, 1/2"NF x 1-1/2"	
9	064531	2	WASHER, plain	
	904208	2	LOCKWASHER, 1/2"	
	911043	2	NUT, 1/2"NF	
10	072396	4	CAPSCREW, 3/4"NF x 1-1/2"	
	910255	4	WASHER, plain, SAE std., 3/4"	
	904369	4	LOCKWASHER, 3/4"	



REAR FENDERS

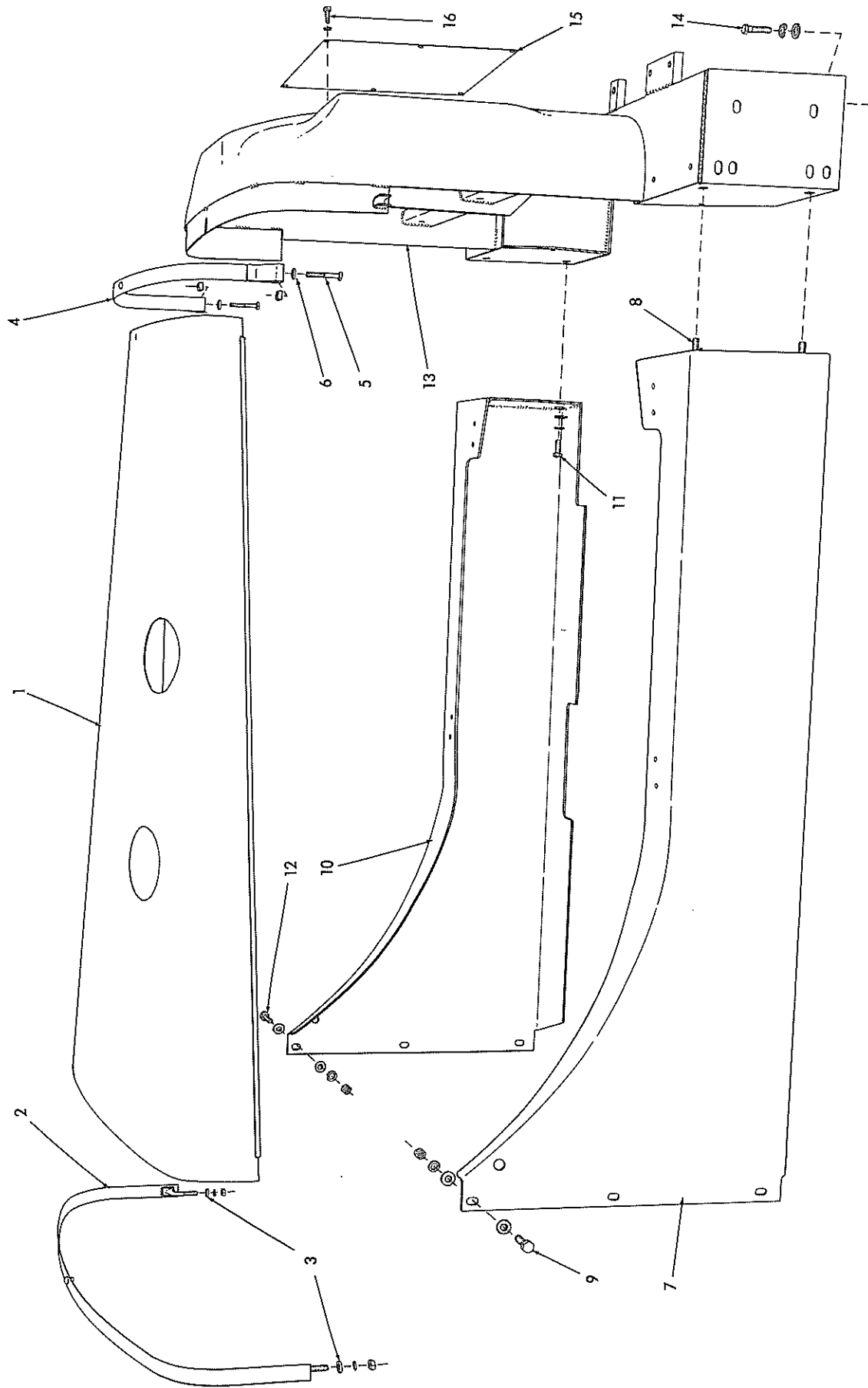
USAGE: Model HD20G tractors prior to #6019 and all Model HD20F tractors.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	074037	1	FENDER, rear left	
2	035073	1	CAPSCREW, 1/2"NF x 1-3/4"	
	910244	1	WASHER, plain, SAE std., 1/2"	
3	072396	4	CAPSCREW, 3/4"NF x 1-1/2"	
	904369	4	LOCKWASHER, 3/4"	
	910255	4	WASHER, plain, SAE std., 3/4"	
4	074038	1	FENDER, rear right	
5	035073	1	CAPSCREW, 1/2"NF x 1-3/4"	
	910244	1	WASHER, plain, SAE std., 1/2"	
6	072396	4	CAPSCREW, 3/4"NF x 1-1/2"	
	904369	4	LOCKWASHER, 3/4"	
	910255	4	WASHER, plain, SAE std., 3/4"	



USAGE: Model HD20G tractors serial No. 6019 and up.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	081970	1	FENDER, rear left	
2	072595	4	CAPSCREW, 3/4"NF x 1-3/4"	
	904369	4	LOCKWASHER, 3/4"	
3	081980	1	FENDER, rear right	
4	072595	4	CAPSCREW, 3/4"NF x 1-3/4"	
	904369	4	LOCKWASHER, 3/4"	
5	082157	1	BRACKET, attaching, left rear fender	
6	035073	2	CAPSCREW, 1/2"NF x 1-3/4"	
7	064531	2	WASHER, plain	
	904208	2	LOCKWASHER, 1/2"	
	911043	2	NUT, 1/2"NF	
8	035067	1	CAPSCREW, 1/2"NF x 2"	
	900818	1	WASHER, plain, U.S. std., 1/2"	
9	082008	1	BRACKET, attaching, right rear fender	
10	035073	2	CAPSCREW, 1/2"NF x 1-3/4"	
11	064531	2	WASHER, plain	
	904208	2	LOCKWASHER, 1/2"	
	911043	2	NUT, 1/2"NF	
12	035067	1	CAPSCREW, 1/2"NF x 2"	
	900818	1	WASHER, plain, U.S. std., 1/2"	



HOOD, FRONT FENDERS AND COWL

* Model HD20H

** Model HD20F

ITEM	NUMBER	PART QUANTITY	DESCRIPTION	KIT NUMBER
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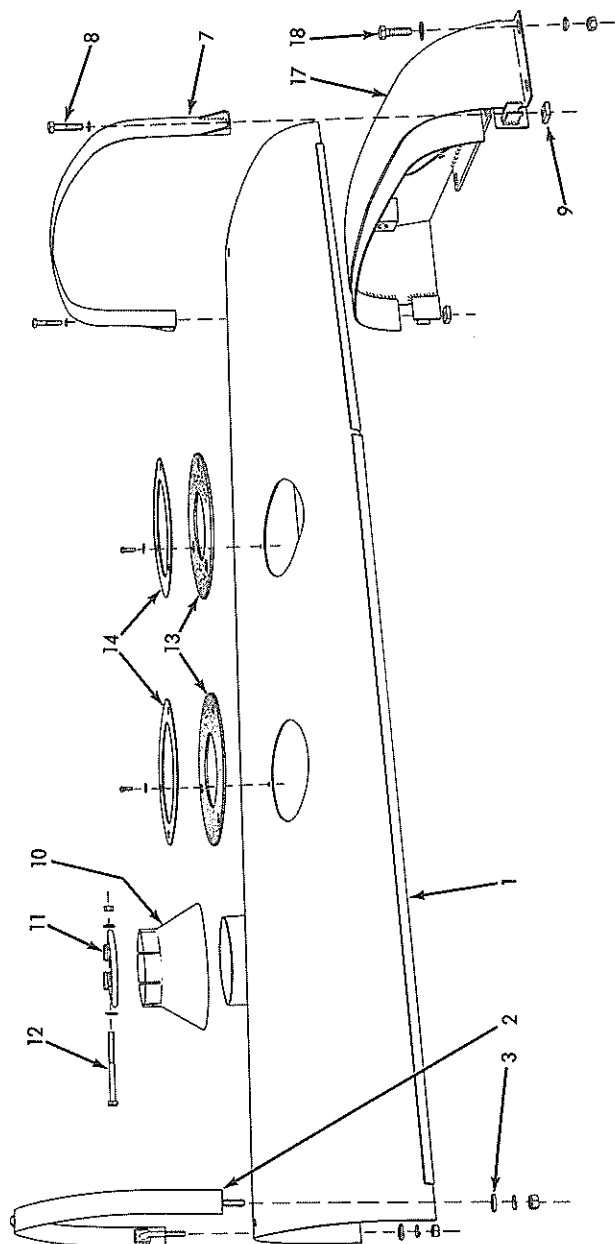
NOTE: See page 216 for special Hood used with Air Pre-Cleaner Extensions.

1	{	068128	1	-	HOOD, engine (Tractors prior to #4544. Used with 12" diam. Air Cleaners)
		077922	-	1	HOOD, engine (Tractors #4544 and up. Used with 14" diam. Air Cleaners)
2		065731	1	1	STRAP, hold-down, front
3		044973	2	2	WASHER, plain
		904206	2	2	LOCKWASHER, 3/8"
		911026	2	2	NUT, 3/8"NC
4		048392	1	1	STRAP, hold-down, rear
5		030809	2	2	BOLT, machine, 3/8"NC x 2-1/2"
6		044973	2	2	WASHER, plain
		900405	2	2	NUT, square, 3/8"NC
7		068125	1	-	FENDER, front, left side
8		070469	2	-	CAPSCREW, 1/2"NF x 1-1/4"
		904208	2	-	LOCKWASHER, 1/2"
		910244	2	-	WASHER, plain, SAE std., 1/2"
9		070469	3	-	CAPSCREW, 1/2"NF x 1-1/4"
		904208	3	-	LOCKWASHER, 1/2"
		910244	6	-	WASHER, plain, SAE std., 1/2"
		911043	3	-	NUT, 1/2"NF
10		068126	1	-	FENDER, front, right side
11		070469	2	-	CAPSCREW, 1/2"NF x 1-1/4"
		904208	2	-	LOCKWASHER, 1/2"
		910244	2	-	WASHER, plain, SAE std., 1/2"
12		070469	3	-	CAPSCREW, 1/2"NF x 1-1/4"
		904208	3	-	LOCKWASHER, 1/2"
		910244	6	-	WASHER, plain, SAE std., 1/2"
		911043	3	-	NUT, 1/2"NF
13	{	073978	1	-	COWL
		074403	-	1	COWL
14	{	035073	4	-	CAPSCREW, 1/2"NF x 1-3/4"
		035278	-	4	CAPSCREW, 1/2"NF x 2-3/4"
		904208	4	4	LOCKWASHER, 1/2"
		910244	4	4	WASHER, plain, SAE std., 1/2"

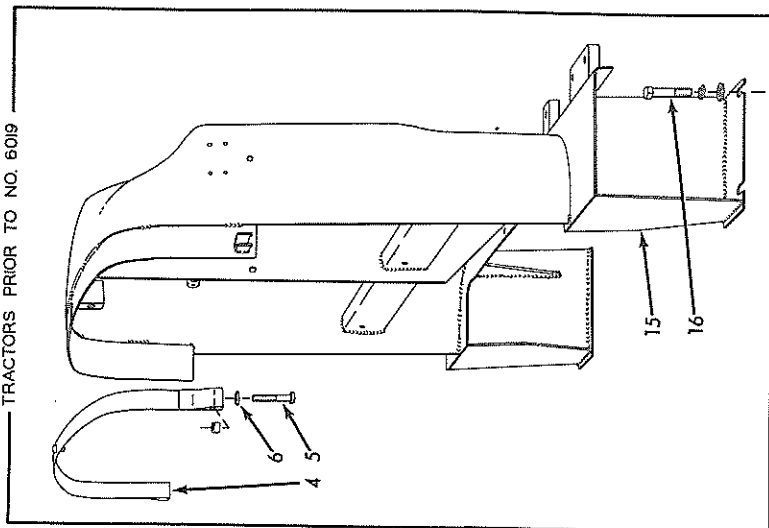
NOTE: Cowl bracing rods as used on tractors prior to serial No. 4896, have been deemed unnecessary and are no longer available for service.

15	073989	-	1	COVER, clutch access hole
16	036034	-	6	CAPSCREW, 3/8"NF x 1"
	904206	-	6	LOCKWASHER, 3/8"

NOTE: See PAINTING AND MARKING for the various transfers and instruction plates which are applied to the hood and cowl.



TRACTORS PRIOR TO NO. 6019



HOOD, COWL AND FRONT FENDERS

USAGE: Model HD20G only.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	074500	1	HOOD, engine	
2	053082	1	STRAP, hold-down, front	
3	044973	2	WASHER, plain	
	904206	2	LOCKWASHER, 3/8"	
	911026	2	NUT, 3/8"NC	
4	048392	1	STRAP, hold-down, rear (Tractors prior to #6019)	
5	030809	2	BOLT, machine, 3/8"NC x 2-1/2"	
6	044973	2	WASHER, plain	
	900405	2	NUT, square, 3/8"NC	
7	080185	1	STRAP, hold-down, rear (Tractors #6019 and up)	
8	035336	2	CAPSCREW, 3/8"NF x 1-3/4"	
	904206	2	LOCKWASHER, 3/8"	
9	048576	2	BLOCK, tapped, rear hood strap (Tractors #6019 and up)	
			NOTE: Items 10 thru 14 were used on tractors serial No. 5652 and up only.	
10	078762	1	SHIELD, dirt, exhaust pipe	
11	074140	1	CLAMP, exhaust pipe dirt shield	
12	043416	1	CAPSCREW, 3/8"NF x 4-1/2"	
	911115	2	WASHER, plain, SAE std., 3/8"	
	911041	1	NUT, 3/8"NF	
13	078850	2	SEAL, air stack (rubber)	
14	078849	2	PLATE, air stack seal retaining	
	914680	6	SCREW, thread-cutting, hex-hd., 1/4" x 5/8"	
	900816	6	WASHER, plain, U.S. std., 1/4"	
15	074403	1	COWL (Tractors prior to #6019)	
16	035278	4	CAPSCREW, 1/2"NF x 2-3/4"	
	904208	4	LOCKWASHER, 1/2"	
	910244	4	WASHER, plain, SAE std., 1/2"	
17	080225	1	COWL (Tractors #6019 and up)	
18	035018	6	CAPSCREW, 1/2"NF x 1-1/2"	
	910244	6	WASHER, plain, SAE std., 1/2"	
	904208	6	LOCKWASHER, 1/2"	
	911043	6	NUT, 1/2"NF	

NOTE: Cowl bracing rods used on tractors prior to serial No. 4896
have been deemed unnecessary and are no longer available for
service.

Special front fenders for the Model HD20G are furnished by
TRACTOMOTIVE CORPORATION, these being part of the
Front Shovel installation.

See PAINTING AND MARKING for the various transfers and
instruction plates which are applied to the hood and cowl.

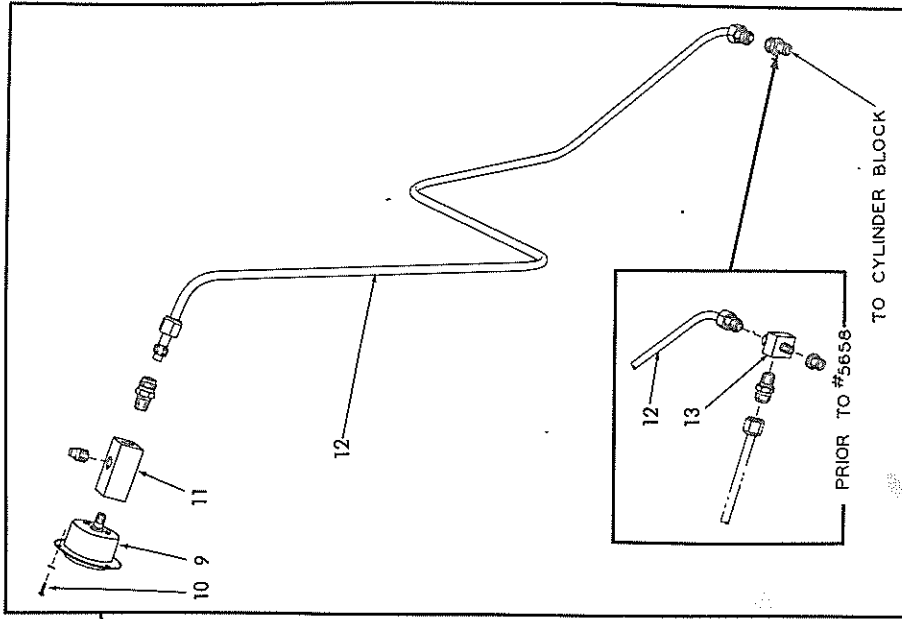
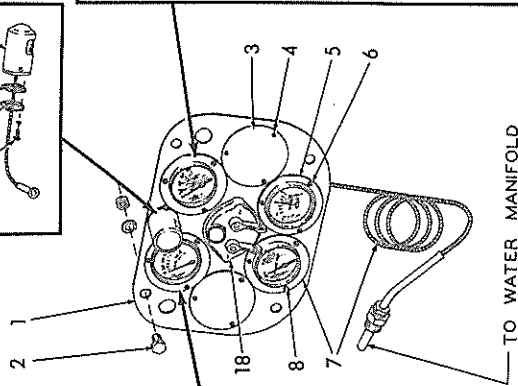
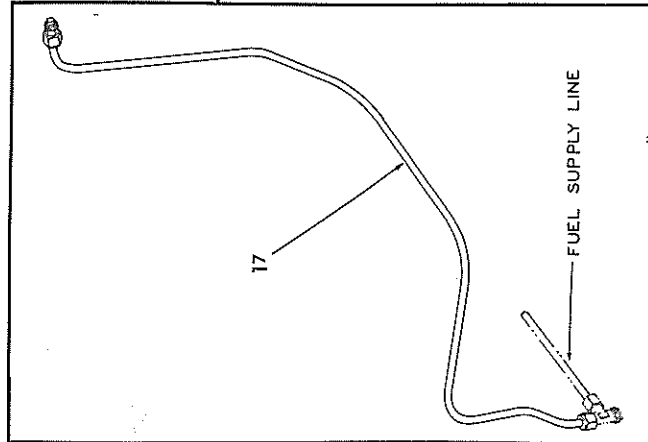
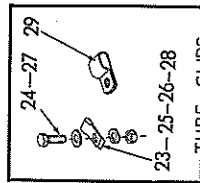
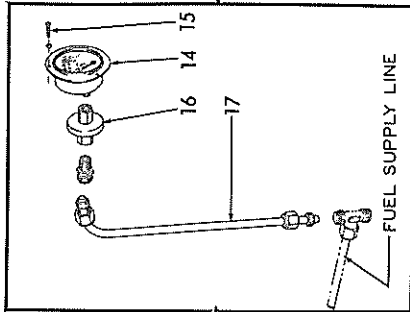
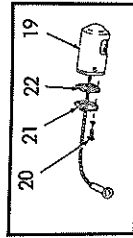
* Tractors equipped with by-pass oil filter. Original equipment on tractors prior to serial No. 5434.

** Tractors equipped with full-flow oil filter. Original equipment on tractors serial No. 5434 and up.

ITEM	PART NUMBER	QUANTITY * **	DESCRIPTION	KIT NUMBER
1	914932	-	ENAMEL, persian orange, quart can	For spraying. Approx. requirements. 5-1/2 gal. for HD20H and HD20F. 8-1/2 gal. for HD20G.
2	914966	-	ENAMEL, persian orange, gallon can	
3	914933	-	ENAMEL, persian orange, quart can	For brushing
4	914967	-	ENAMEL, persian orange, gallon can	
5	915884	-	ENAMEL, persian orange, 12 ounce pressurized spray-type can (For touch-up)	
NOTE: All plates and transfers listed below are English language printings unless otherwise indicated.				
6	074135	1	- PLATE, general instructions (6-1/2" x 10")(Attached to dash)	
	079231	-	1 PLATE, general instructions (6-1/2" x 10")(Attached to dash on HD20H and HD20F. Attached to left shovel frame on HD20G)	
	076305	1	- PLATE, general instructions (Spanish translation of 074135. 6-1/2" x 10")(Attached to dash)	
	079232	-	1 PLATE, general instructions (Spanish translation of 079231. 6-1/2" x 10")(Attached to dash)	
	076306	1	- PLATE, general instructions (French translation of 074135. 6-1/2" x 10")(Attached to dash)	
	079233	-	1 PLATE, general instructions (French translation of 079231. 6-1/2" x 10")(Attached to dash)	
7	034076	4	4 SCREW, thread-cutting, cross-recessed-hd., #8 x 1/2"	
8	053417	1	1 PLATE, gear shift diagram (3-1/2" x 2-1/2")(Attached to dash)	
9	034076	4	4 SCREW, thread-cutting, cross-recessed-hd., #8 x 1/2"	
10	069407	1	1 *TRANSFER, primer instruction (1-3/4" x 6")(Applied to dash)	
11	050842	2	2 TRANSFER, air cleaner instruction (1-1/2" x 3-3/4")(Applied to air cleaner mounting band)(Used with 069695 CLEANER only. Original equipment on tractors prior to serial No. 4544)	
	074578	2	2 *TRANSFER, air cleaner instruction (Spanish translation of 050842. 1-5/8" x 4")(Used with 069695 CLEANER only)	
	079201	2	2 TRANSFER, air cleaner instruction (1-3/4" x 3-3/4")(Applied to air cleaner mounting band)(Used with 077900 CLEANER only. Original equipment on tractors serial No. 4544 and up) 078274	
12	050838	2	2 TRANSFER, air pre-cleaner instruction (Applied to air pre-cleaner)	
	074577	2	2 *TRANSFER, air pre-cleaner instruction (Spanish translation of 050838. 1-5/8" x 4")(Applied to air pre-cleaner)	
13	077289	1	1 *TRANSFER, multi-language warning, special heavy-duty oil filter (4-1/8" x 10")(Applied to oil filter)	
14	074719	2	- *TRANSFER, instruction, oil filter (2-1/4" x 2-1/2")(Applied to engine oil filter)	
	074582	2	- *TRANSFER, instruction, oil filter (Spanish translation, 1-1/8" x 4")(Applied to engine oil filter)	
	079345	-	2 *TRANSFER, instruction, oil filter (2-7/8" x 5")(Applied to engine oil filter)	
15	069410	1	1 *TRANSFER, caution, lubricating oil (1-1/2" x 2-3/8")(Applied to engine oil filler tube)	

		PART QUANTITY		DESCRIPTION	KIT NUMBER
ITEM	NUMBER	*	**		
16	083942	1	1	*TRANSFER, instruction, 1st stage fuel filter (1-3/4" x 2-1/4") (Applied to filter)	
	074720	1	1	*TRANSFER, instruction, 2nd stage fuel filter (2-1/4" x 2-3/4") (Applied to filter)	
	074581	2	2	*TRANSFER, instruction, fuel filter (Spanish translation, 1-7/16" x 4") (Applied to filter)	
17	068832	2	2	*TRANSFER, name, "ALLIS-CHALMERS" (3-3/4" x 30-1/2") (Applied to hood)	
18	074097	3	3	*TRANSFER, identification, "ALLIS-CHALMERS HD20 DIESEL" (5-1/2" x 20-1/4") (Applied to sides of seat and rear of fuel tank)	
19	069356	1	1	*TRANSFER, engine clutch adjustment instructions (2-3/4" x 4") (Applied to clutch inspection plate)	
20	053624	1	1	TRANSFER, instruction, air heater operation (2" x 6") (Applied to dash)	
	074579	1	1	*TRANSFER, instruction, air heater operation (Spanish translation, 2" x 6") (Applied to dash)	
21	077246	1	1	*TRANSFER, caution, engine shut-off (1" x 3") (Applied to dash)	
22	080527	2	2	*TRANSFER, "TORQUE CONVERTER" design (Applied to sides of seat)	
23	074142	1	1	PLATE, lubricating identification (1-1/8" x 4") (Applied to dash)	
24	034076	2	2	SCREW, thread-cutting, cross-recessed-hd., #8 x 1/2"	
25	-----	1	1	MONOGRAM, radiator shell (See RADIATOR SHELL)	
26	067937	-	-	CEMENT, transfer application, 1/2 pint jar (Makes solution by adding 4 parts water. Required to apply transfers indicated by asterisk (*) above)	

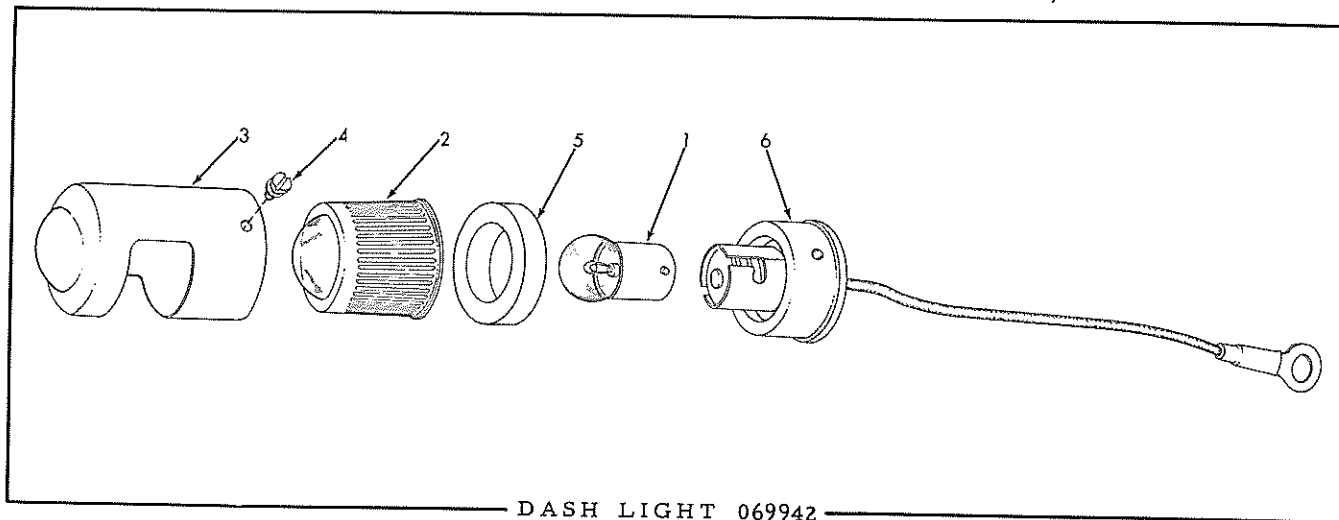
*Indicates permanent-type transfer. See item 26.



ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	050753	1	PANEL, instrument	
2	036032	4	CAPSCREW, 3/8"NF x 3/4"	
	911041	4	NUT, 3/8"NF	
	904206	4	LOCKWASHER, 3/8"	
3	050751	2	COVER, panel holes	
4	040226	6	SCREW, thread-cutting, cross-recessed-hd., #6 x 1/2"	
	912729	6	LOCKWASHER, internal teeth, #6	
5	066942	1	AMMETER	
6	040226	3	SCREW, thread-cutting, cross-recessed-hd., #6 x 1/2"	
	912729	3	LOCKWASHER, internal teeth, #6	
7	053066	1	GAUGE, engine temperature	
8	040226	3	SCREW, thread-cutting, cross-recessed-hd., #6 x 1/2"	
	912729	3	LOCKWASHER, internal teeth, #6	
9	034910	1	GAUGE, engine oil pressure	
10	040226	3	SCREW, thread-cutting, cross-recessed-hd., #6 x 1/2"	
	912729	3	LOCKWASHER, internal teeth, #6	
11	069713	1	TEE, oil pressure gauge (1/8"NPT and 1/4"NPT female ends, 1/4"NPT side)	
	901652	1	PLUG, pipe, sq-hd., 1/4 NPT (Not used on tractors equip- ped with HOUR METER)	
12	068234	1	TUBE, oil pressure gauge (Not for Model HD20G tractors #6019 and up)	
	082181	1	TUBE, oil pressure gauge (For Model HD20G tractors #6019 and up)	
	915368	2	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male (1 less used on tractors prior to #5658)	
	915366	2	NUT, Sealastic fitting, 3/8" tube	
	915367	2	RING, Sealastic, 3/8" tube (Includes FERRULE)	
13	066478	1	TEE, oil pressure gauge (1/8"NPT and 1 1/16"EF male ends, 1/4"NPT female side)(Used prior to tractor #5658)	
	901825	1	BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT	
14	079837	1	GAUGE, fuel pressure	
15	040226	3	SCREW, thread-cutting, cross-recessed-hd., #6 x 1/2"	
	912729	3	LOCKWASHER, internal teeth, #6	
16	069674	1	RESTRICTOR, fuel pressure gauge	
17	079304	1	TUBE, fuel pressure gauge (Tractors prior to #5607)	
	079662	1	TUBE, fuel pressure gauge (Tractors #5607 and up)	
	915368	1	CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male	
	915366	2	NUT, Sealastic fitting, 3/8" tube	
	915367	2	RING, Sealastic, 3/8" tube (Includes FERRULE)	
18	042438	1	SWITCH, combination, air heater ignition and lights (See page 181 for repair parts)	
	042504	2	SCREW, machine, cross-recessed-hd., #8-32NC x 3/8"	
	906964	2	LOCKWASHER, #8	
19	069942	1	LIGHT ASSEMBLY, instrument panel (See page 180 for repair parts)	
20	042504	3	SCREW, machine, cross-recessed-hd., #8 x 32NC x 3/8" (Tractors prior to #4149)	
	900553	3	SCREW, machine, #8-32NC x 3/4" (Tractors #4149 and up)	
	906964	3	LOCKWASHER, #8	
21	075851	1	WASHER, panel light mounting (steel)(Tractors #4149 and up)	
22	075852	2	WASHER, panel light mounting (rubber)(Tractors #4149 and up)	

(Continued)

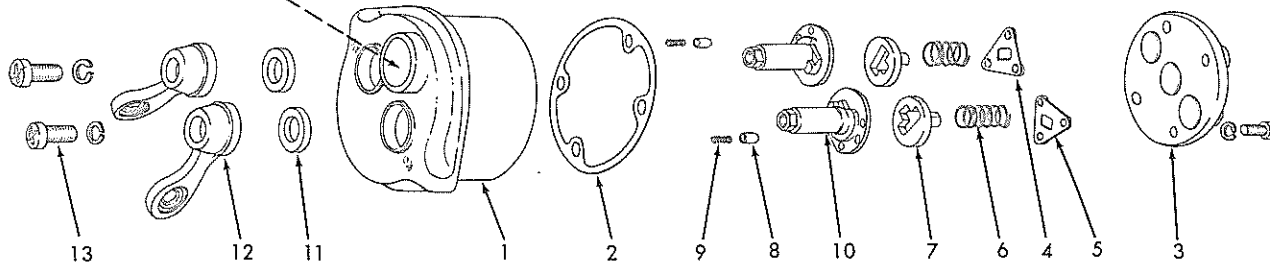
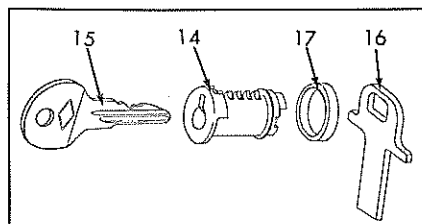
PART				KIT NUMBER	
ITEM	NUMBER	QTY.	DESCRIPTION		
23	U-479	1	CLIP, temperature gauge tube (closed type, 3/16" diam., 13/32" bolt-hole)(Tractors prior to #5346)		
	040796	1	CLIP, temperature gauge tube (closed type, 3/8" diam., 13/32" bolt-hole)(Tractors #5346 and up)		
24	036034	1	CAPSCREW, 3/8"NF x 1"		
	904206	1	LOCKWASHER, 3/8"		
	911041	1	NUT, 3/8"NF		
25	040338	1	CLIP, fuel pressure gauge tube (closed type, 3/8" diam., 9/32" bolt-hole)(Tractors prior to #5607)		
	040796	1	CLIP, fuel pressure gauge tube (closed type, 3/8" diam., 13/32" bolt-hole)(Tractors #5607 and up)		
26	040796	1	CLIP, oil pressure gauge tube (closed type, 3/8" diam., 13/32" bolt-hole)(Used prior to tractor #5334. 1 additional used for fuel pressure gauge tube on tractors prior to #4544)		
27	035979	1	CAPSCREW, 3/8"NF x 5/8" (Tractors prior to #4544)		
	911115	1	WASHER, plain, SAE std., 3/8"		
28	043030	1	CLIP, fuel pressure gauge tube (closed type, 3/8" diam., 9/16" bolt-hole)(Tractors #4544 thru #5333)		
29	042672	1	CLIP, fuel and oil pressure gauge tubes (closed type, for two 3/8" diam. tubes, 7/16" bolt-hole)(Tractor #5334 thru #5606)		



DASH LIGHT 069942

USAGE: See page 179 for listing of complete Light Assembly.

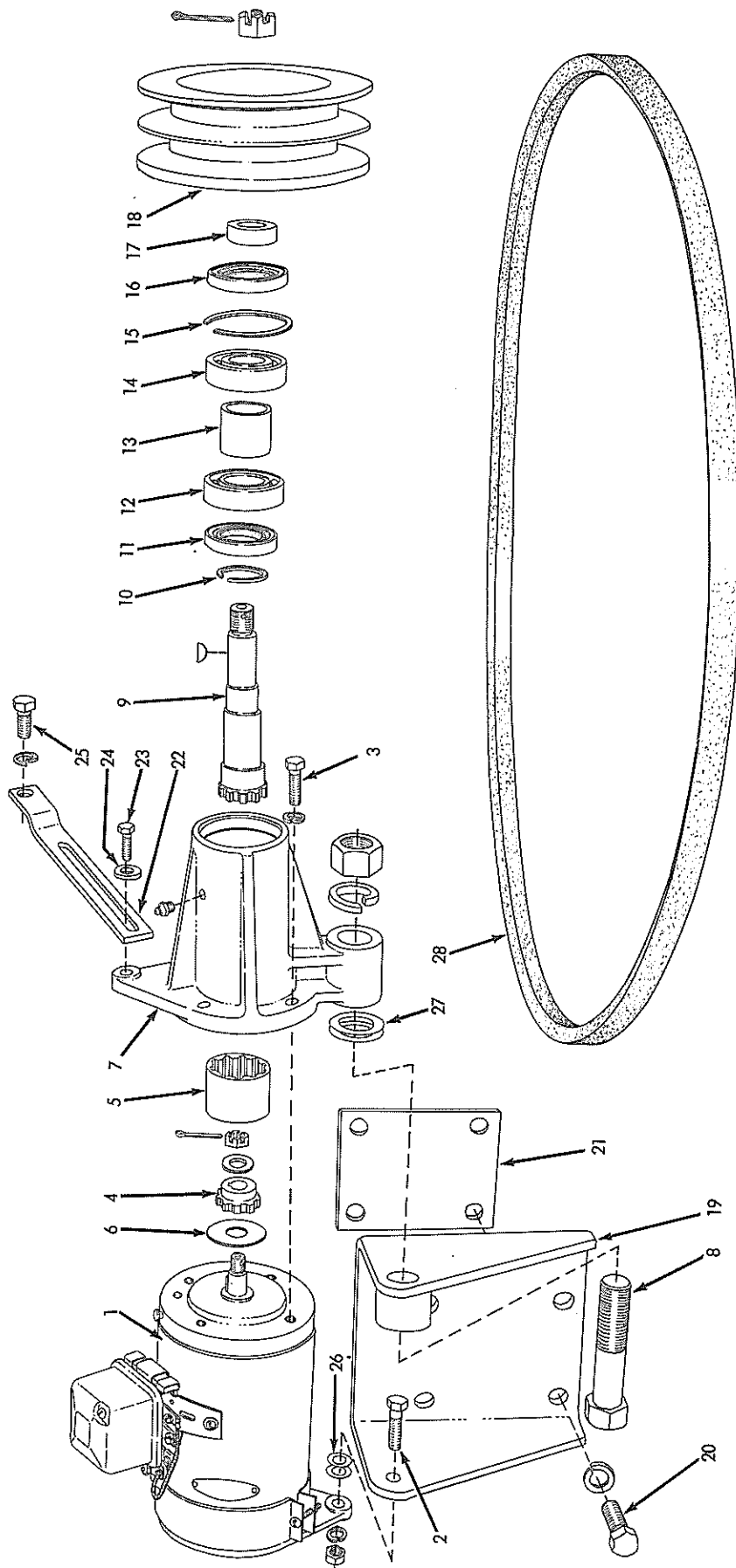
PART				KIT NUMBER	
ITEM	NUMBER	QTY.	DESCRIPTION		
1	074452	1	BULB, incandescent, single contact, 6 c.p., 24 volts		
2	040974	1	GLASS		
3	040973	1	COVER, bulb		
4	044211	2	SCREW		
5	040969	1	GASKET, bulb cover		
6	-----	1	BASE ASSEMBLY (Not serviced. Order complete LIGHT ASSEMBLY 069942)		



SWITCH ASSEMBLY 042438

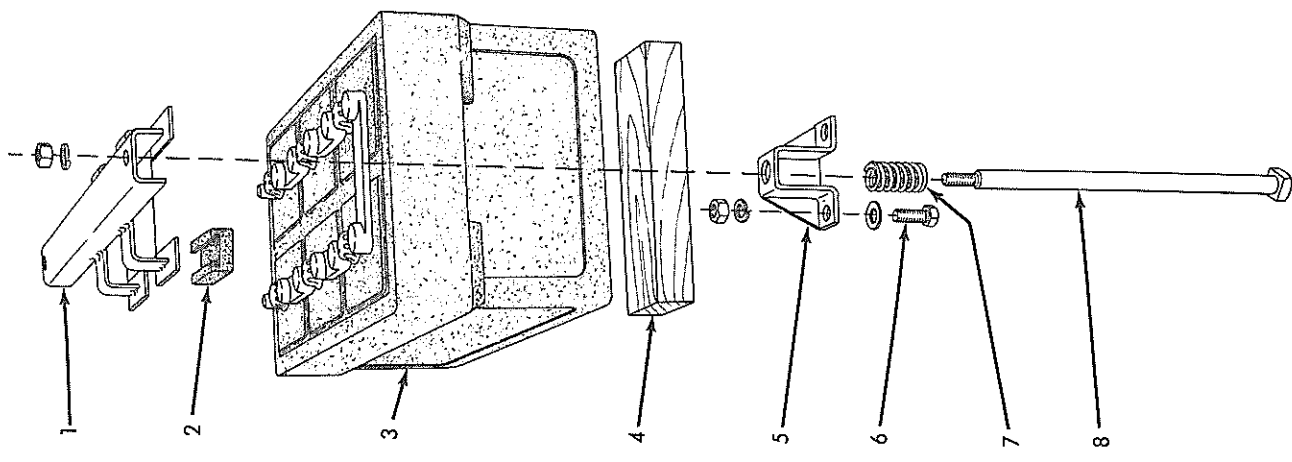
USAGE: See page 179 for listing of complete Switch Assembly.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	042458	1	HOUSING ASSEMBLY (Includes expansion PLUG)	
2	042489	1	GASKET, housing	
3	042459	1	BACK ASSEMBLY (Includes terminal NUTS)	
	913885	4	SCREW, machine, fil-hd., #10-32NF x 7/16"	
	904203	4	LOCKWASHER, #10	
4	042462	1	CONTACT, ignition	
5	042463	1	CONTACT, lights	
6	042491	2	SPRING, contact	
7	042460	2	SUPPORT, contact	
8	042493	2	CUP, ratchet	
9	042492	2	SPRING, ratchet cup (small)	
10	042461	2	SHAFT, operating lever	
11	042490	2	WASHER, operating lever shaft (felt)	
12	042464	2	LEVER, operating	
13	042494	2	SCREW (cross-recessed fil-hd., #10 x 7/16")	
	904203	2	LOCKWASHER, #10	
NOTE: Items 14 thru 17 comprise the LOCK ARRANGEMENT which is available as special equipment.				
14	042635	1	LOCK ASSEMBLY (Includes item 15)	
15	042643	2	KEY, lock	
16	042634	1	PLATE, lock	
17	042633	1	COLLAR, lock	

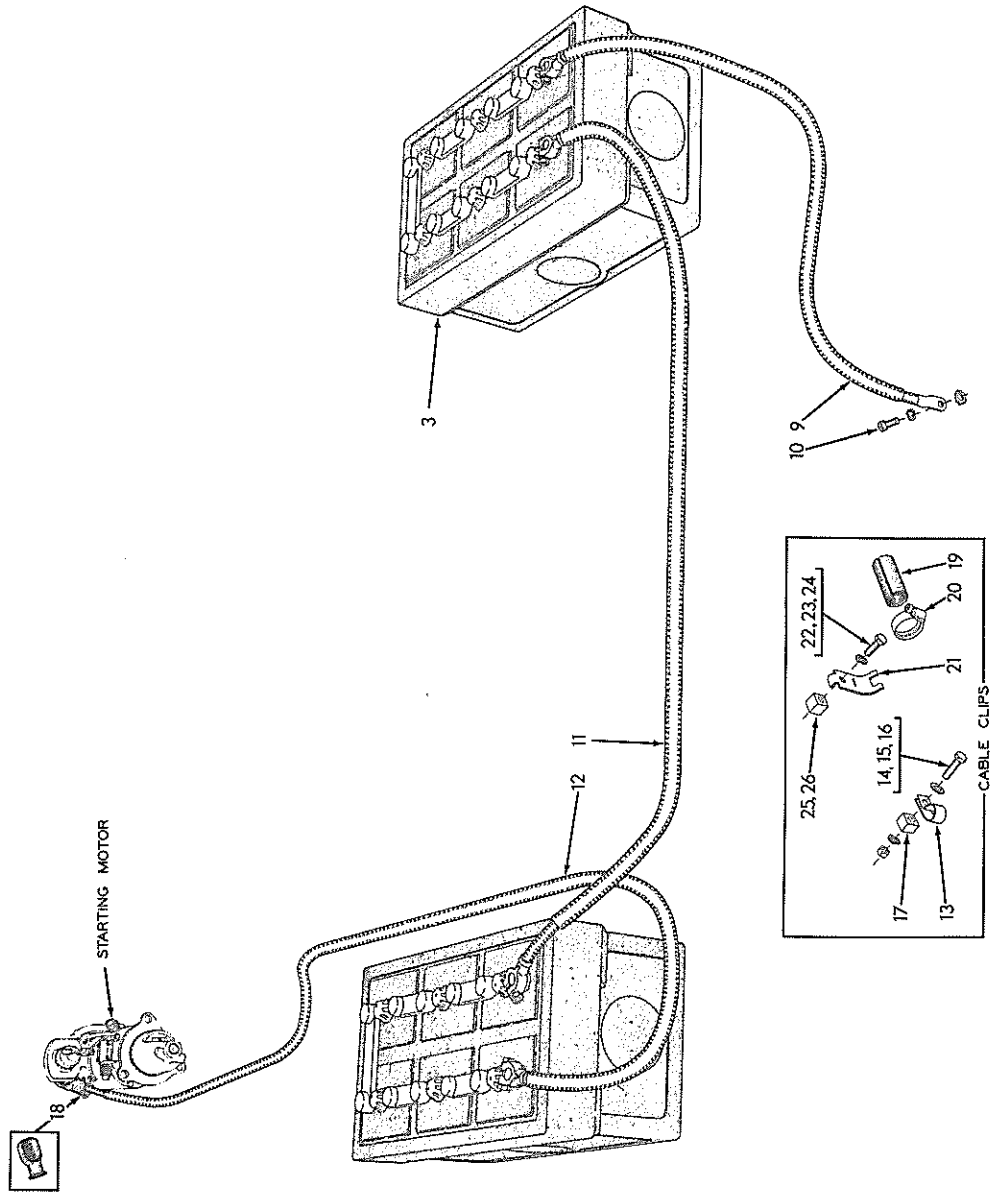


GENERATOR AND DRIVE

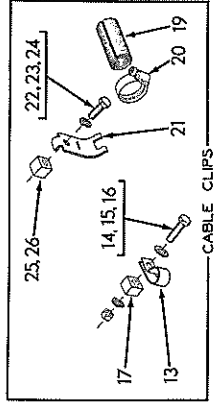
ITEM	NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	067912	1	GENERATOR ASSEMBLY (DELCO REMY #1105957. Order parts from local United Motor Service dealer)(Includes 905121 KEY)	
	905121	1	KEY, #5 woodruff, 1/8" x 5/8"	
2	070224	1	CAPSCREW, 7/16"NF x 1-1/2"	
	904207	1	LOCKWASHER, 7/16"	
	911042	1	NUT, 7/16"NF	
3	013058	4	CAPSCREW, 3/8"NC x 1-1/4"	
	904206	4	LOCKWASHER, 3/8"	
4	067923	1	PINION, generator driving	
	910244	1	WASHER, plain, SAE std., 1/2"	
	913471	1	NUT, jam, slotted, 1/2"NF	
	900801	1	PIN, cotter, 3/32" x 3/4"	
5	067892	1	SLEEVE, coupling	
6	067924	1	WASHER, sleeve retaining	
7	067964	1	HOUSING, generator drive	
	914465	1	FITTING, lubricating, straight, 1/8"NPT	
8	038203	1	CAPSCREW, 1"NF x 4-1/2"	
	910916	1	LOCKWASHER, 1"	
	911051	1	NUT, 1"NF	
9	066369	1	SHAFT, generator drive	
	912331	1	NUT, slotted, 3/4"NF	
	900807	1	PIN, cotter, 1/8" x 1-1/4"	
10	052225	1	RING, snap, generator drive shaft	
11	067914	1	SEAL, oil, rear	
12	802379	1	BEARING, ball, rear	
13	067918	1	SLEEVE, bearing spacing	
14	067916	1	BEARING, ball, front	
15	050291	1	RING, snap, bearing	
16	067913	1	SEAL, oil, front	
17	067919	1	SPACER, pulley	
18	067932	1	PULLEY, driving (6-1/16" diam.)	
	905121	1	KEY, #5 woodruff, 1/8" x 5/8"	
19	073102	1	BRACKET, mounting	
20	036707	4	CAPSCREW, 5/8"NC x 1-3/4"	
	904209	4	LOCKWASHER, 5/8"	
21	073108	1	PLATE, bracket spacing	
22	073105	1	STRAP, belt adjustment	
23	045295	1	CAPSCREW, 5/16"NC x 1"	
24	044973	1	WASHER, plain	
25	035221	1	CAPSCREW, 1/2"NC x 1"	
	904208	1	LOCKWASHER, 1/2"	
26	077820	2	SHIM, mounting bracket, rear (.010" thick. Use as req'd)	
27	077821	2	SHIM, mounting bracket, front (.010" thick. Use as req'd)	
28	-----	2	BELT, driving (See FAN)	



BATTERY MOUNTING

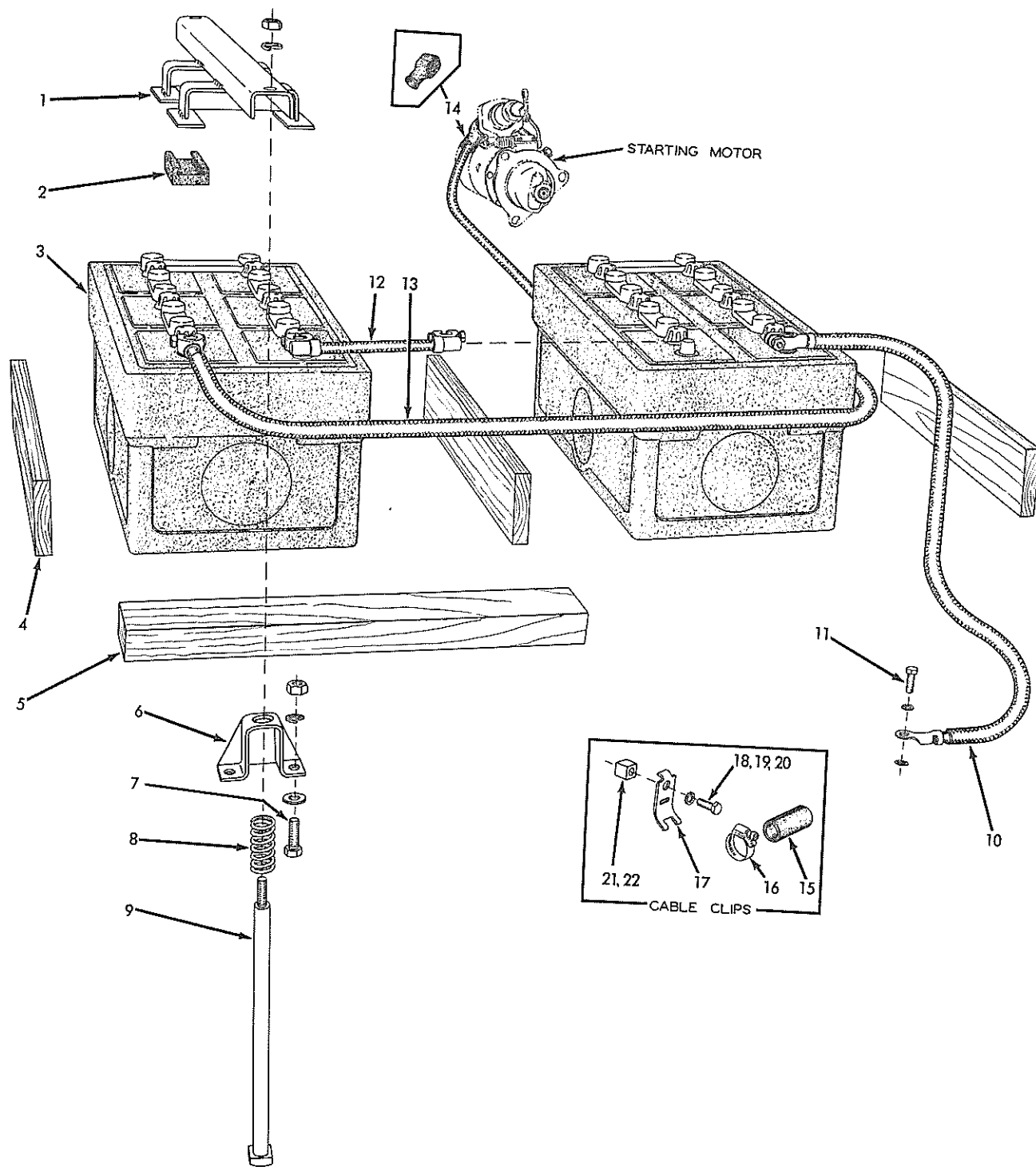


BATTERIES AND CABLES



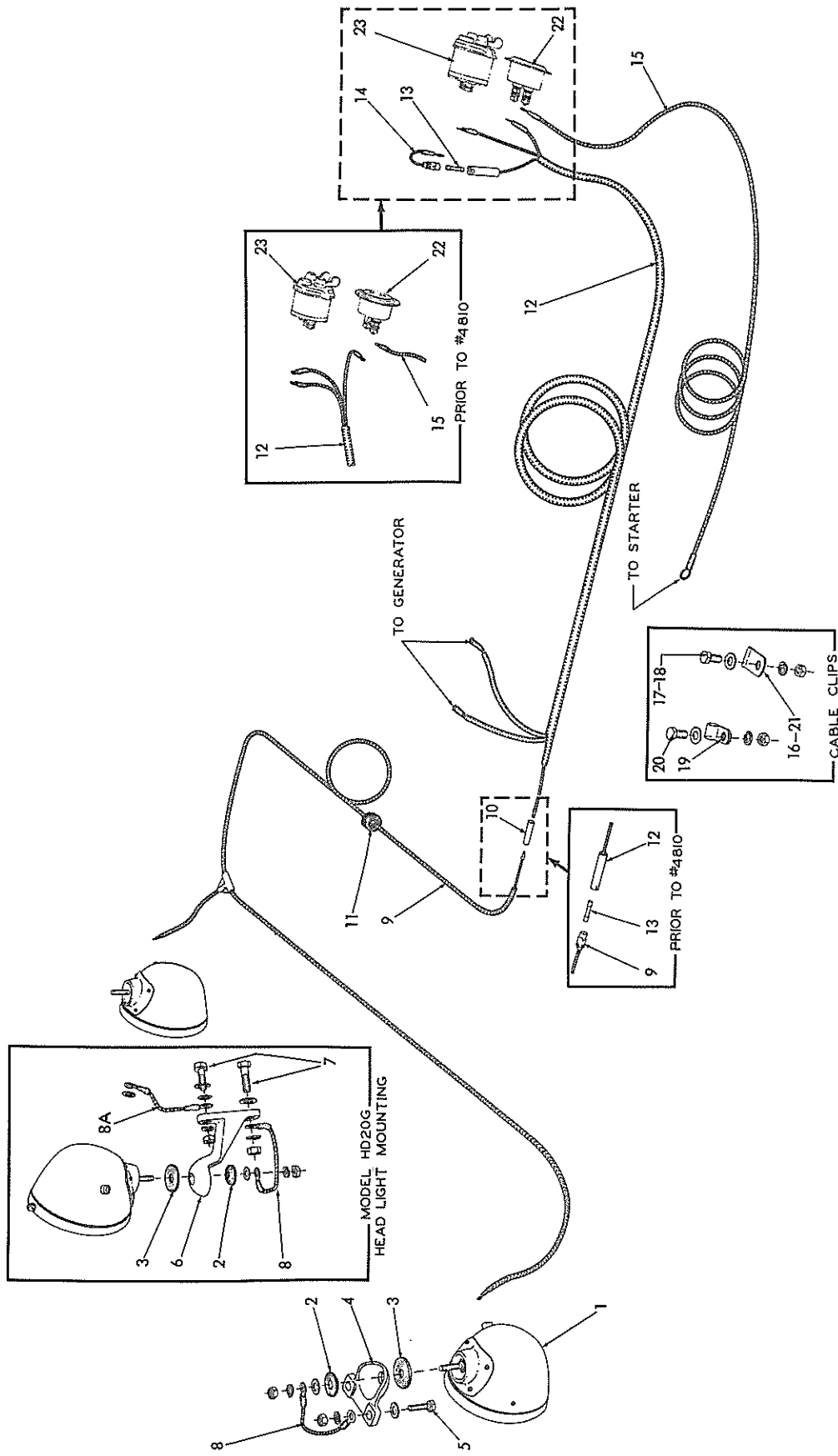
USAGE: For all tractors except Model HD20G serial No. 6019 and up.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	052782	2	HOLD-DOWN,battery	
2	052791	8	BLOCK, hold-down (rubber)	
3	-----	2	BATTERY, storage, 12 volts, 25 plates, wet charged (AUTO-LITE #8T-200. Order from local dealer)	
4	052792	12	BOARD, bottom (1-5/8" x 3-1/4" x 10")	
5	081867	4	BRACKET, hold-down bolt (For tractors prior to #6001 also order 2 CAPSCREWS 035190)	
6	{ 037431	8	CAPSCREW, 1/2" NC x 4" (Tractors prior to #6001)	
	035190	8	CAPSCREW, 1/2" NC x 1-1/2" (Tractors #6001 and up)	
	904208	8	LOCKWASHER, 1/2"	
	911028	8	NUT, 1/2" NC	
	910244	8	WASHER, plain, SAE std., 1/2"	
7	081404	4	SPRING, hold-down bolt	
8	052790	4	BOLT, hold-down	
	911043	4	NUT, 1/2" NF	
	904208	4	LOCKWASHER, 1/2"	
9	073452	1	CABLE, battery to ground (39" long)	
10	036034	1	CAPSCREW, 3/8" NF x 1"	
	904206	1	LOCKWASHER, 3/8"	
	906960	1	LOCKWASHER, external teeth, 3/8"	
11	074389	1	CABLE, battery connecting (57" long)	
12	068220	1	CABLE, battery to starter (126" long)	
NOTE: Items 13 thru 17 were used prior to tractor #4219				
13	055234	15	CLIP, battery cables (closed type, 3/4" diam., 13/32" bolt-hole)	
14	036032	10	CAPSCREW, 3/8" NF x 3/4"	
	904206	10	LOCKWASHER, 3/8"	
	911115	10	WASHER, plain, SAE std., 3/8"	
15	035336	1	CAPSCREW, 3/8" NF x 1-3/4"	
	904206	1	LOCKWASHER, 3/8"	
	911041	1	NUT, 3/8"	
	911115	1	WASHER, plain, SAE std., 3/8"	
16	036034	2	CAPSCREW, 3/8" NF x 1"	
	904206	2	LOCKWASHER, 3/8"	
	911041	2	NUT, 3/8" NF	
	911115	2	WASHER, plain, SAE std., 3/8"	
17	055235	1	BLOCK, clip spacing	
NOTE: Items 18 thru 25 started with tractor #4219				
18	076572	1	BOOT, protecting, starter terminal	
19	076469	15	BOOT, cable protecting	
20	076471	16	CLAMP, cable boot	
21	076470	11	CLIP, cable supporting	
22	036032	4	CAPSCREW, 3/8" NF x 3/4"	
23	035336	6	CAPSCREW, 3/8" NF x 1-3/4" (7 used prior to tractor #4662)	
24	012992	1	CAPSCREW, 3/8" NF x 1-1/4" (Tractors #4662 and up)	
	904206	10	LOCKWASHER, 3/8"	
	911115	1	WASHER, plain, SAE std., 3/8"	
	911041	1	NUT, 3/8" NF	
25	068157	6	BLOCK, clip spacing (3/4" thick)(7 used prior to tractor #4662)	
26	078335	1	BLOCK, clip spacing (3/8" thick)(Tractors #4662 and up)	



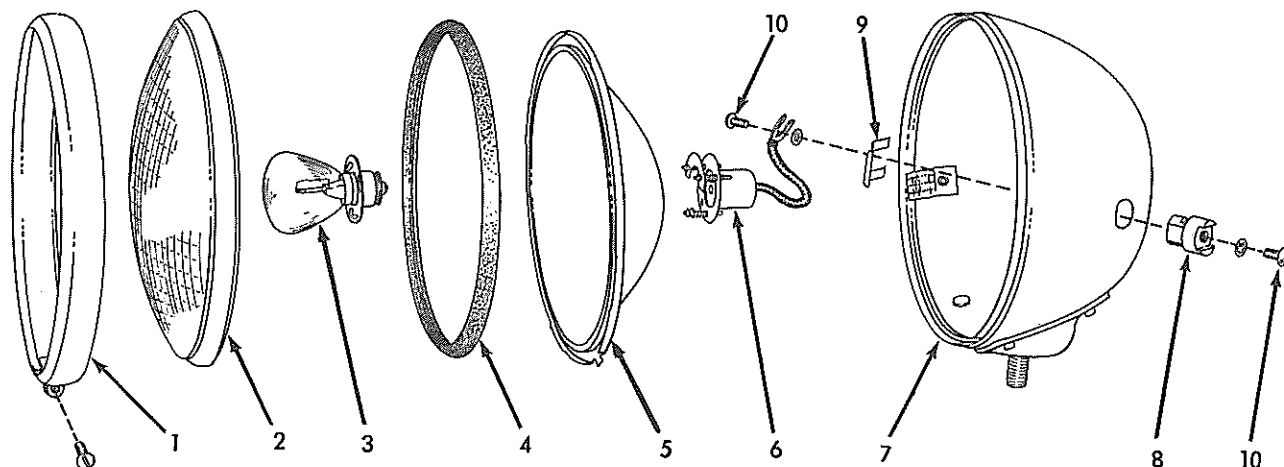
USAGE: Model HD20G tractors serial No. 6019 and up.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	052782	2	HOLD-DOWN, battery	
2	052791	8	BLOCK, hold-down (rubber)	
3	-----	2	BATTERY, storage, 12 volts, 25 plates, wet charged (AUTOLITE #8T-200. Order from local battery dealer)	
4	079960	3	BOARD, side (3/4" x 3-5/8" x 19-3/4")	
5	082023	5	BOARD, bottom (1-5/8" x 3-5/8" x 22")	
6	081867	4	BRACKET, hold-down bolt	
7	035190	8	CAPSCREW, 1/2"NC x 1-1/2"	
	910244	8	WASHER, plain, SAE std., 1/2"	
	904208	8	LOCKWASHER, 1/2"	
	911028	8	NUT, 1/2"NC	
8	081404	4	SPRING, hold-down bolt	
9	052790	4	BOLT, hold-down	
	904208	4	LOCKWASHER, 1/2"	
	911043	4	NUT, 1/2"NF	
10	082199	1	CABLE, battery to ground (50" long)	
11	036034	1	CAPSCREW, 3/8"NF x 1"	
	904206	1	LOCKWASHER, 3/8"	
	906960	1	LOCKWASHER, internal teeth, 3/8"	
12	082198	1	CABLE, battery connecting (6-3/4" long)	
13	082217	1	CABLE, battery to starter (146" long)	
14	076572	1	BOOT, protecting, starter terminal	
15	076469	12	BOOT, cable protecting	
16	076471	16	CLAMP, cable boot	
17	076470	10	CLIP, cable supporting	
18	036032	2	CAPSCREW, 3/8"NF x 3/4"	
19	035336	5	CAPSCREW, 3/8"NF x 1-3/4"	
20	035979	2	CAPSCREW, 3/8"NF x 5/8"	
	904206	9	LOCKWASHER, 3/8"	
21	068157	5	BLOCK, clip spacing (3/4" thick)	
22	078335	1	BLOCK, clip spacing (3/8" thick)	



* Models HD20H and HD20F
 ** Model HD20G

ITEM	PART NUMBER	QUANTITY	* **	DESCRIPTION	KIT NUMBER
1	074388	2	2	LIGHT ASSEMBLY, head (See page 190 for repair parts)	
	900817	2	2	WASHER, plain, U.S. std., 3/8"	
	904206	2	2	LOCKWASHER, 3/8"	
	911026	2	2	NUT, 3/8"NC	
2	-----	2	2	WASHER, head light mounting (Beveled. Steel)(Used prior to tractor #4138. Order 1 each 900817 WASHER, 075854 WASHER and 075853 WASHER for each replacement)	
	075854	2	2	WASHER, head light mounting (Beveled. Rubber)(Started with tractor #4138)	
3	075853	2	2	WASHER, head light mounting (Flat. Rubber)(Started with tractor #4138)	
4	075429	2	-	BRACKET, head light mounting	
5	012992	4	-	CAPSCREW, 3/8"NF x 1-1/4"	
	900817	4	-	WASHER, plain, U.S. std., 3/8"	
	904206	4	-	LOCKWASHER, 3/8"	
	911041	4	-	NUT, 3/8"NF	
6	053211	-	1	BRACKET, head light mounting, left	
	053212	-	1	BRACKET, head light mounting, right	
7	035018	-	4	CAPSCREW, 1/2"NF x 1-1/2"	
	910244	-	4	WASHER, plain, SAE std., 1/2"	
	904208	-	4	LOCKWASHER, 1/2"	
	911043	-	4	NUT, 1/2"NF	
8	077279	2	2	CABLE, head light ground (Started with tractor #4138)	
8A	079754	-	1	CABLE, ground, head-light bracket (4" long)(Started with tractor #5559)	
	906960	-	1	LOCKWASHER, internal teeth, 3/8"	
	906961	-	1	LOCKWASHER, internal teeth, 1/2"	
9	077924	1	1	CABLE, head lights to main wiring harness (When required for tractors prior to #4810 also order one each 048142 CONNECTOR, 077921 CABLE and 077923 HARNESS)	
10	048142	1	1	CONNECTOR, head light cable to main harness (Started with tractor #4810)	
11	064589	1	-	GROMMET, head light cable (rubber)	
12	077923	1	1	HARNESS, main wiring (When required for tractors prior to #4810 also order one each 048142 CONNECTOR, 077921 CABLE and 077924 CABLE)	
13	208960	1	1	FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes	
14	077921	1	1	CABLE, harness to switch (4" long)(Started with tractor #4810)	
15	068228	1	1	CABLE, starter to ammeter	
16	AM-8691	10	11	CLIP, head light and starter cables (closed type, 1/4" diam., 13/32" bolt-hole)	
17	036032	4	3	CAPSCREW, 3/8"NF x 3/4"	
18	012992	1	1	CAPSCREW, 3/8"NF x 1-1/4"	
	904206	5	4	LOCKWASHER, 3/8"	
	911115	3	3	WASHER, plain, SAE std., 3/8"	
	911041	5	4	NUT, 3/8"NF	
19	207091	7	7	CLIP, main wiring harness (closed type, 1/2" diam., 13/32" bolt-hole)	
20	036032	5	5	CAPSCREW, 3/8"NF x 3/4"	
	904206	5	5	LOCKWASHER, 3/8"	
	911115	5	5	WASHER, plain, SAE std., 3/8"	
	911041	5	5	NUT, 3/8"NF	
21	073809	2	2	CLIP, ammeter cable (closed type, 3/16" diam., 13/32" bolt-hole) (Used on tractors #4219 and up)	
22	-----	1	1	AMMETER (See INSTRUMENTS)	
23	-----	1	1	SWITCH (See INSTRUMENTS)	

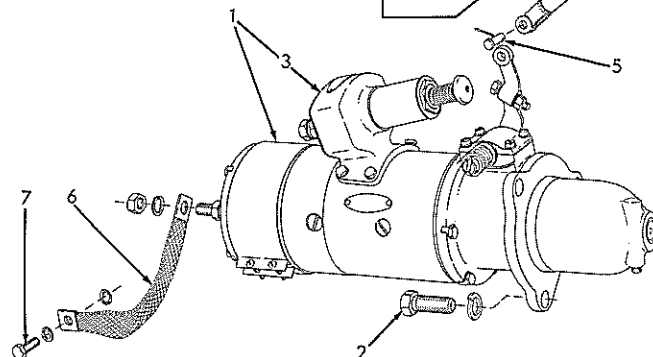
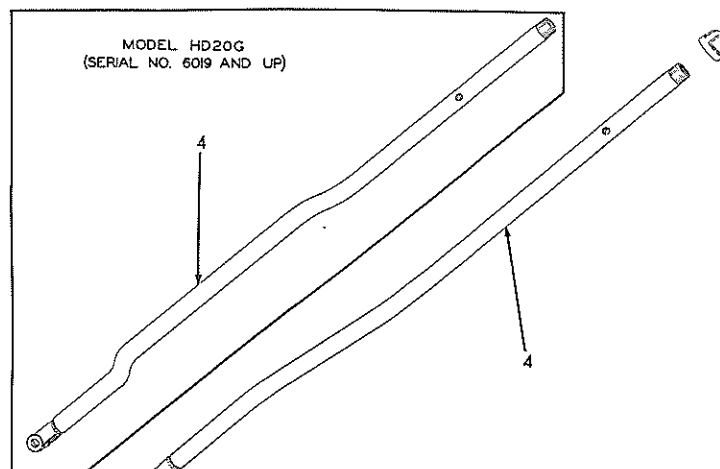


LIGHT ASSEMBLY 074388

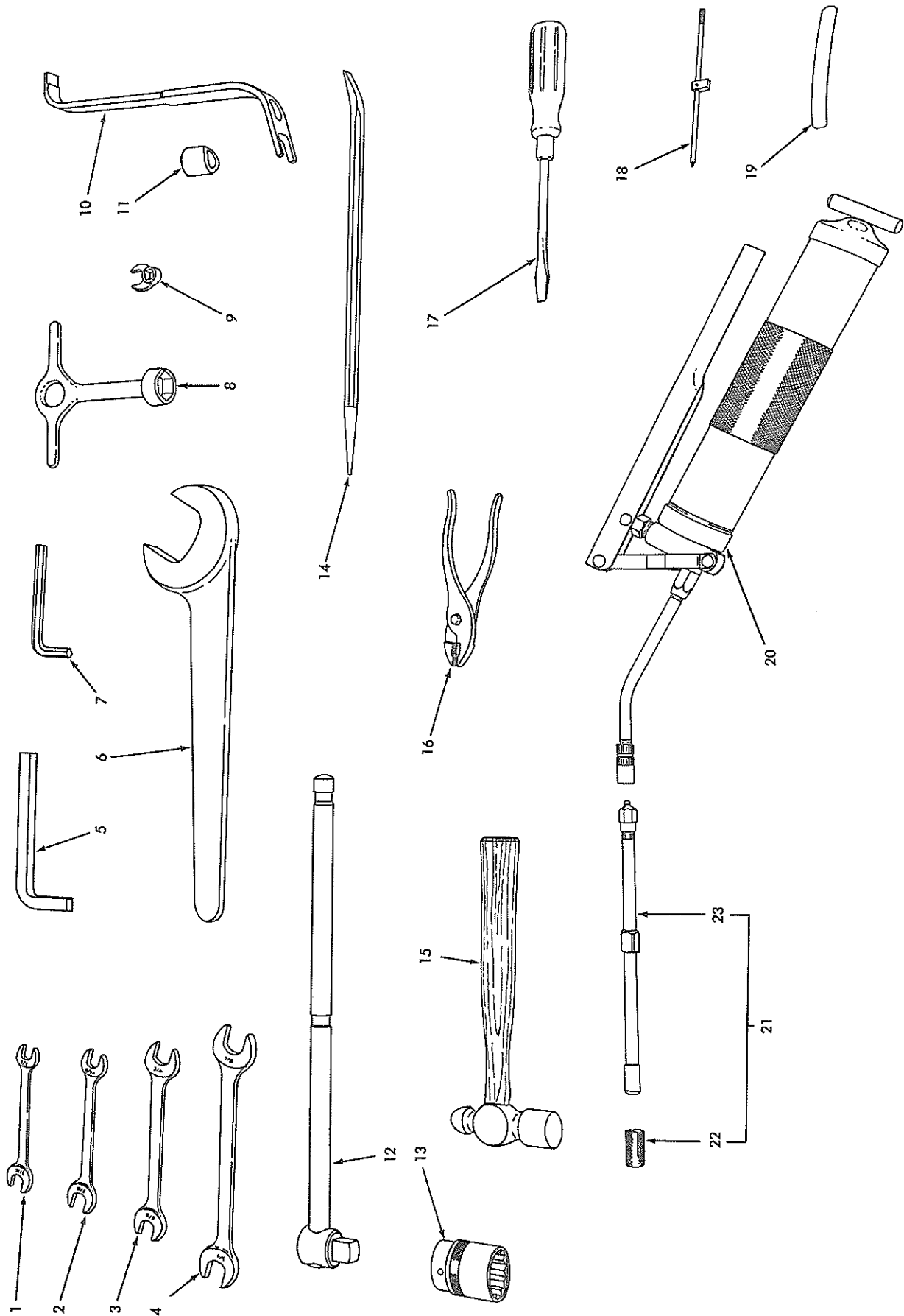
NOTE: See pages 189 and 198 for listing of complete Light Assembly.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	058827	1	MOLDING	
	915872	1	SCREW, machine, rd-hd., brass, #8-32NC x 5/8"	
2	058830	1	LENS (glass)	
3	074387	1	BULB (single contact, 32 c.p., 24 volt)	
4	058828	1	GASKET, lens	
5	058829	1	REFLECTOR ASSEMBLY (Includes item 4)	
6	058831	1	WIRING ASSEMBLY (Includes SOCKET)	
7	-----	1	BODY (Not serviced. Order complete LIGHT ASSEMBLY 074388)	
8	055589	1	TERMINAL KIT (Includes items 9 and 10)	
9	048922	1	SPRING, retaining, terminal bushing	
10	055462	2	SCREW, terminal (#8-32NC x 5/16")	
	912739	2	LOCKWASHER, internal teeth, #8	

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

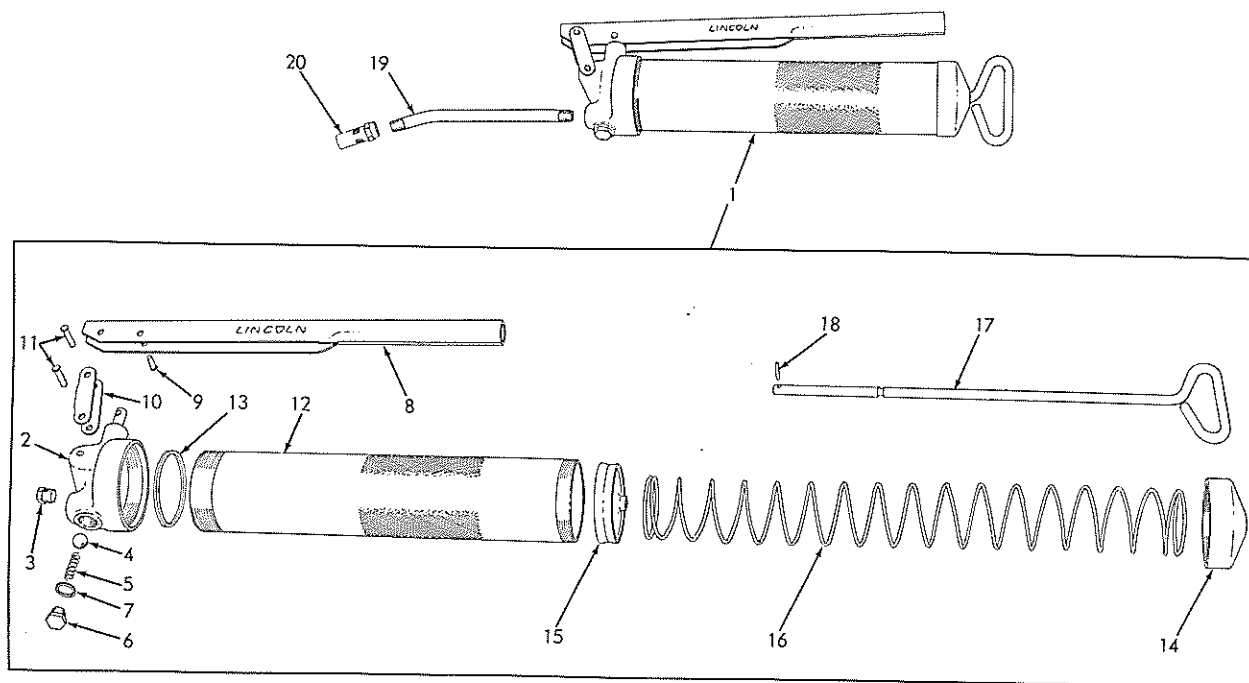


STARTER				KIT NUMBER
ITEM	PART NUMBER	QTY.	DESCRIPTION	
1	073483	1	MOTOR, starting (DELCO-REMY #1109703. Order parts from local United Motor Service dealer)(Includes item 3)	
2	036707	3	CAPSCREW, 5/8"NC x 1-3/4"	
	904209	3	LOCKWASHER, 5/8"	
3	034924	1	SWITCH, starting motor (DELCO-REMY #407C. Order parts from local United Motor Service dealer)	
4	073149	1	ROD, operating (Not for Model HD20G tractors #6019 and up)	
	069650	1	ROD, operating (Started with Model HD20G tractor #6019)	
	901752	1	CAP, pipe, 3/8"NPT	
5	033067	1	PIN, operating rod	
	904001	1	PIN, cotter, 3/32" x 1/2"	
6	073480	1	STRAP, starter to ground	
7	036034	1	CAPSCREW, 3/8"NF x 1"	
	904206	1	LOCKWASHER, 3/8"	
	906960	1	LOCKWASHER, external teeth, 3/8"	



ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	050608	1	WRENCH, open end, double head, 15 ⁰ , 1/2" and 9/16"	083880
2	053423	1	WRENCH, open end, double head, 15 ⁰ , 9/16" and 5/8"	083880
3	050609	1	WRENCH, open end, double head, 15 ⁰ , 5/8" and 3/4"	083880
4	050610	1	WRENCH, open end, double head, 15 ⁰ , 3/4" and 7/8"	083880
5	043769	1	WRENCH, drain and filling plugs (90 ⁰ , 1/2" square)	083880
6	040170	1	WRENCH, track release adjustment (2-9/32" open end)	083880
7	902881	1	KEY, hexagonal, short, 3/8" (For engine clutch adjustment lock- ing screw)	083880
8	040272	1	WRENCH, lubricant hole plugs	083880
9	074332	1	WRENCH, adjusting, valve lash (9/16" opening)	083880
10	074762	1	TOOL, valve lifting and injector removing	083880
11	044825	1	FULCRUM, valve lifting and injector removing tool	083880
12	053426	1	HANDLE, socket, sliding T, 3/4" square drive, 21-1/2" long	083880
13	914799	1	SOCKET, 3/4" square drive, 12 point, 1-5/16" hex	083880
14	052371	1	BAR, pinch, 16" long	083880
15	012387	1	HAMMER, ball peen, 1 lb.	083880
16	012389	1	PLIERS, slip joint, 6"	083880
17	036268	1	SCREWDRIVER, 9-3/4" long	083880
18	074595	1	GAUGE, injector timing	083880
19	074549	1	GAUGE, feeler, rocker clearance	083880
20	073735	1	GUN, grease (See page 194 for repair parts for LINCOLN unit. Repairs for KP gun, which is furnished as an alternate, must be procured direct from K. P. Manufacturing Company, 1226 Linden Ave., Minneapolis, Minn.)	083880
21	058937	1	NOZZLE ASSEMBLY, low-pressure lubrication (Consists of items 22 and 23)	083880
22	041351	1	CAP, dust, low pressure lubrication nozzle	
23	041352	1	TUBE, low pressure lubrication	
	914767	1	FITTING, lubricating, straight, 1/8"NPT female	

NOTE: For complete line of service tools for General Motors Diesel Engines, consult Kent-Moore Organization, General Motors Research Bldg., Detroit 2, Michigan.

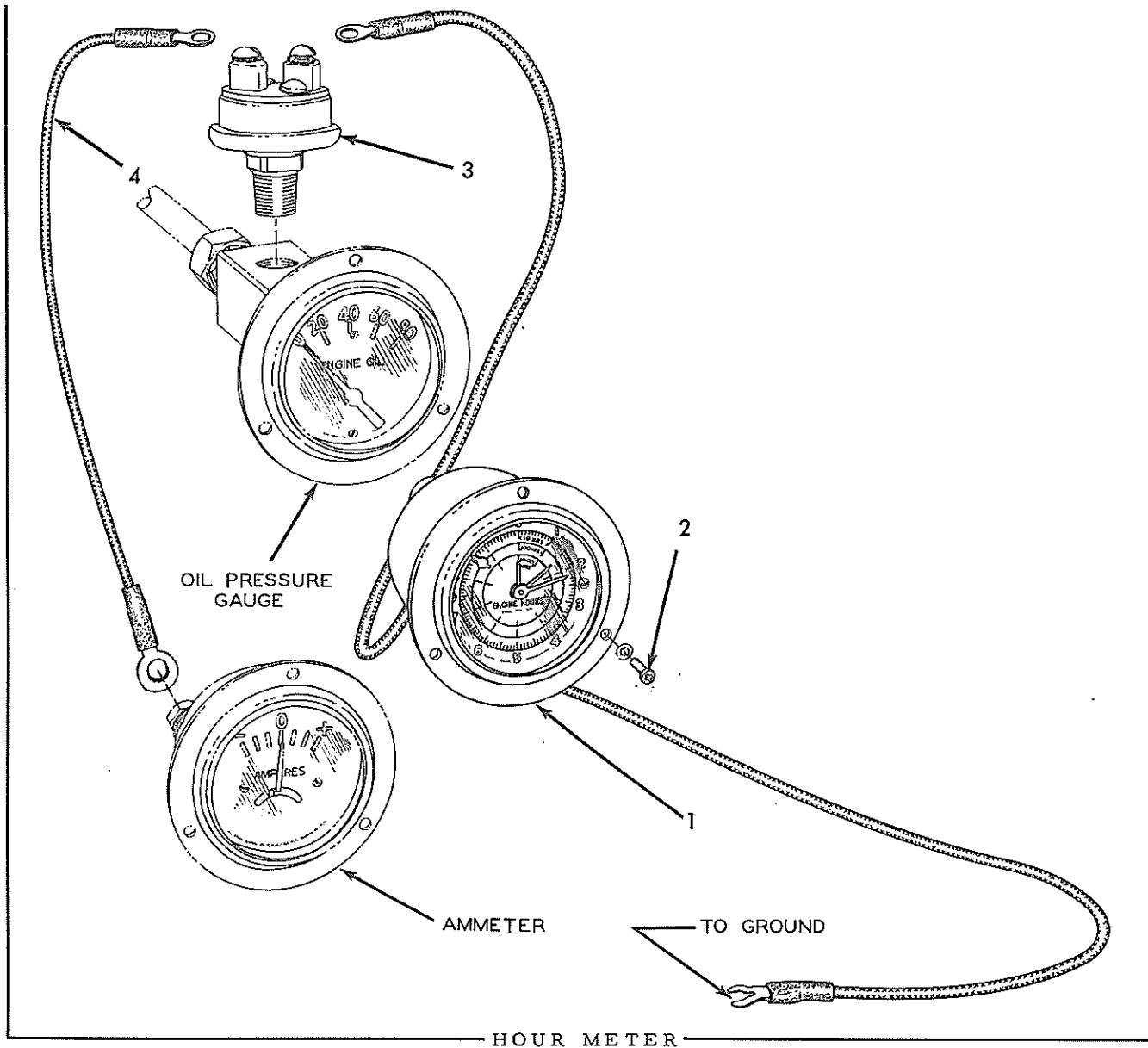


GREASE GUN 073735

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	073737	1	GUN ASSEMBLY (Consists of items 2 thru 18)
2	073870	1	HEAD AND PLUNGER ASSEMBLY (Serviced only as a unit)
3	073881	1	PLUG, filling hole
4	905360	1	BALL, steel, 3/8" diam.
5	043061	1	SPRING, check valve
6	043053	1	HOUSING, check valve spring
7	043052	1	GASKET, check valve spring housing
8	073868	1	HANDLE, plunger operating
9	073866	1	PIN, plunger operating handle
10	073869	1	TOGGLE, operating handle
11	073867	2	PIN, toggle
12	073791	1	TUBE, container
13	043056	1	GASKET, container
14	073807	1	CAP, container tube
15	073817	1	FOLLOWER ASSEMBLY (Serviced only as a unit)
16	058978	1	SPRING, follower
17	073810	1	ROD, follower
18	073821	1	PIN, follower rod
19	073820	1	EXTENSION, nozzle
20	073819	1	COUPLER ASSEMBLY (Serviced only as a unit)

KIT NUMBER

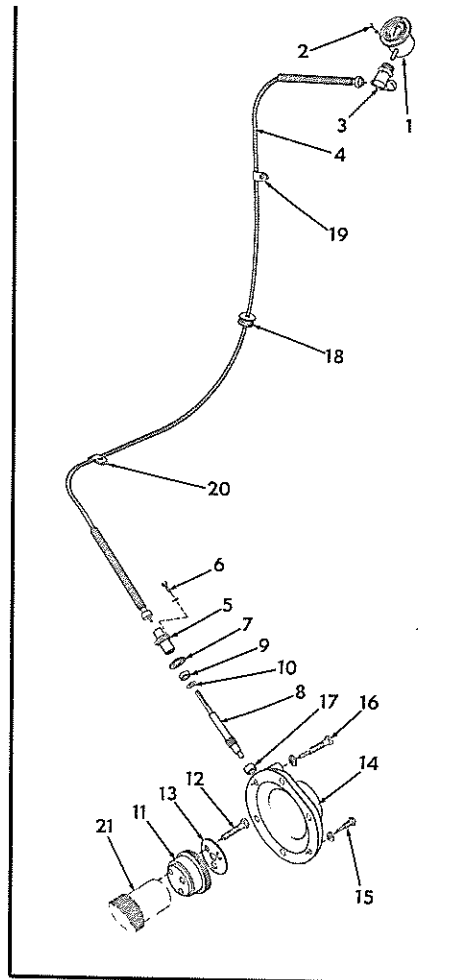
NOTE: See page 193 for listing of complete Grease Gun.



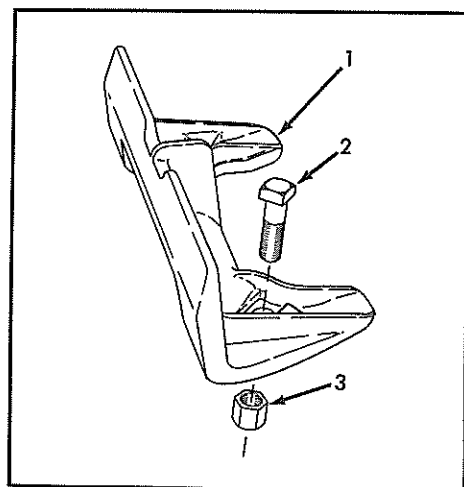
USAGE: Special Equipment.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	074550	1	METER, hour (24 volt)(See note below)	
2	040226	3	SCREW, thread-cutting, #6-32NC x 1/2"	
	912729	3	LOCKWASHER, internal teeth, #6	
3	050288	1	SWITCH, pressure	
4	050327	1	CABLE, pressure switch to ammeter (8" long)	

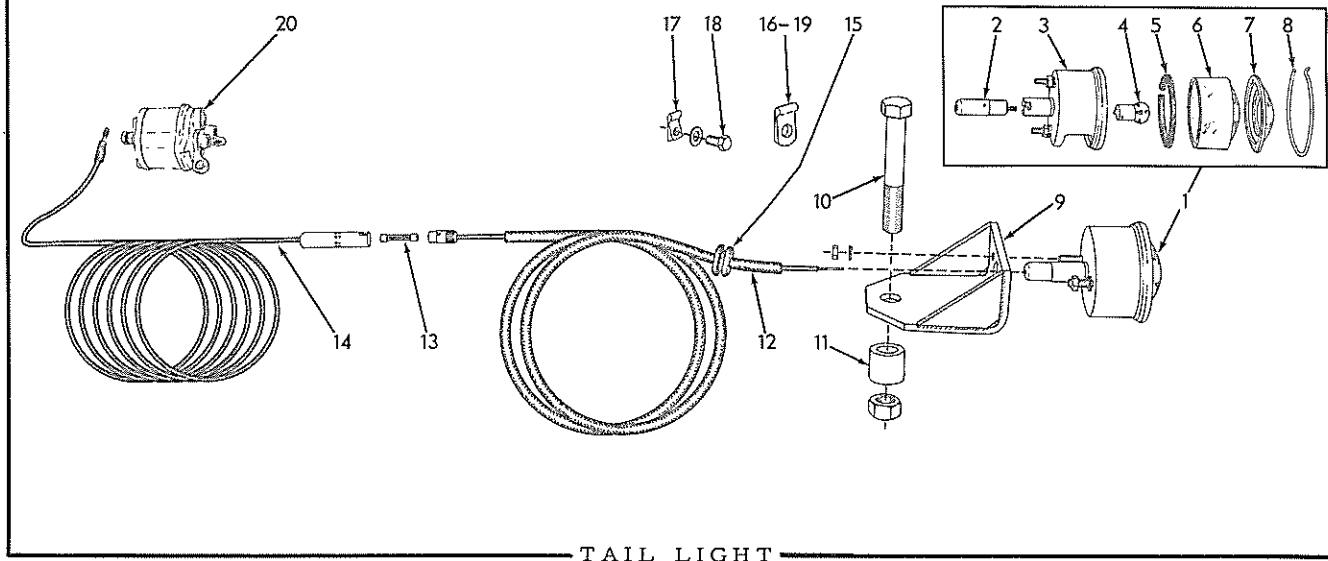
NOTE: Meter carries manufacturers' warranty and in case of failure should be returned direct to John W. Hobbs Corporation, Springfield, Illinois for repair.



			USAGE: Special Equipment. Registers distance traveled.	
ITEM	PART NUMBER	QTY.	DESCRIPTION	
1	047678	1	ODOMETER (Registers miles)	
	057784	1	ODOMETER (Registers kilometers)	
2	040226	3	SCREW, thread-cutting, cross-recessed-hd., #6NC x 1/2"	
	912729	3	LOCKWASHER, internal teeth, #6	
3	061633	1	JOINT ASSEMBLY (Serviced only as a unit)	
4	061635	1	SHAFT, flexible (Serviced only as a unit)	
5	061640	1	SLEEVE, drive housing	
6	045312	2	CAPSCREW, 5/16"NC x 3/4"	
	904205	2	LOCKWASHER, 5/16"	
7	061632	1	GASKET, drive housing sleeve	
8	061636	1	GEAR AND SHAFT, driven	
9	047661	1	PACKING, driven gear shaft	
10	047672	1	WASHER, driven gear shaft packing	
11	061637	1	GEAR, driving	
12	035892	3	CAPSCREW, 1/2"NF x 2-1/2"	
13	052244	1	WASHER, locking	
14	061630	1	HOUSING ASSEMBLY, drive (Includes item 17)	
15	035190	3	CAPSCREW, 1/2"NC x 1-1/2"	
16	045253	3	CAPSCREW, 1/2"NC x 3-3/4"	
	904208	6	LOCKWASHER, 1/2"	
17	064211	1	BUSHING, drive housing	
18	047674	1	GROMMET, flexible shaft (rubber)	
19	033043	1	CLIP, flexible shaft (single, 7/16" diam., 13/32" bolt-hole)	
20	034152	1	CLIP, flexible shaft (single, 7/16" diam., 17/32" bolt-hole)	
21	-----	1	SHAFT, pinion (See TRANSMISSION)	



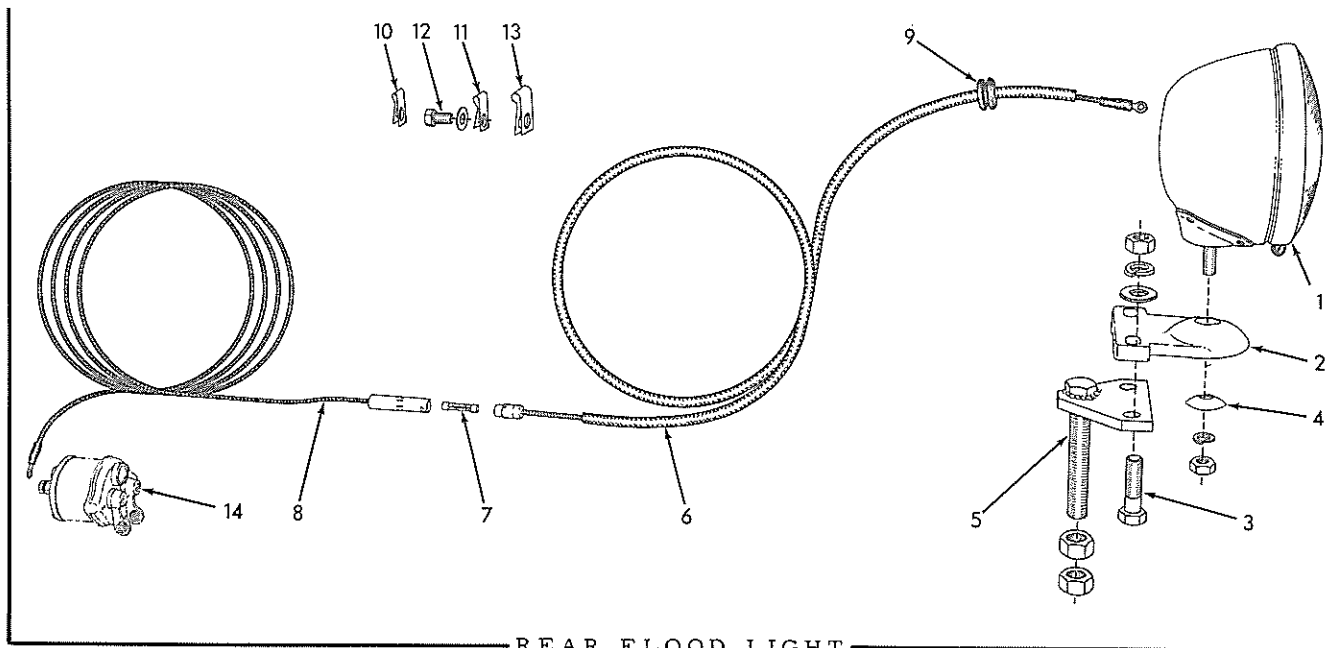
			GROUSER	
			NOTE: Quantities indicated are for one (1) track shoe only.	
1	058474	1	GROUSER, snow and ice	
2	028420	2	BOLT (3/4"NF x 2-1/2")	
3	012767	2	NUT, high, 3/4"NF	



TAIL LIGHT

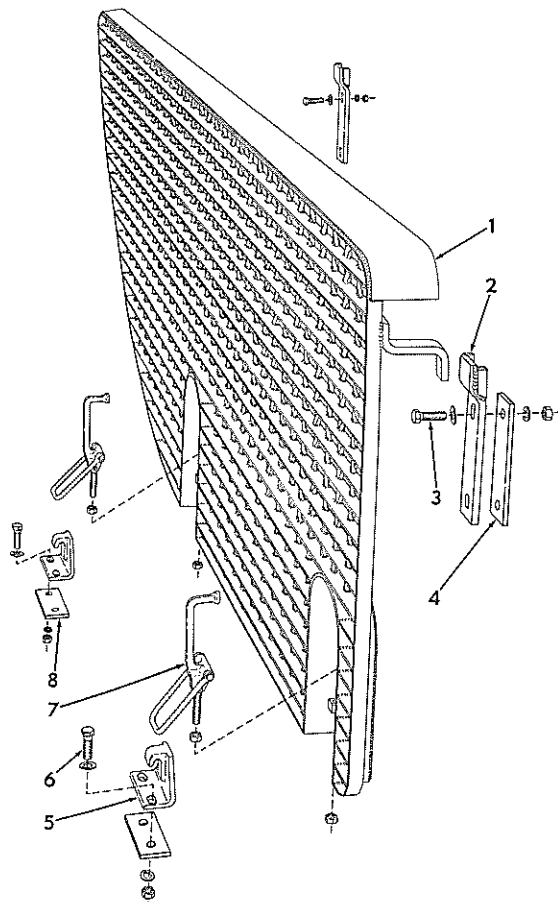
USAGE: Special Equipment. Applicable to all Models except units equipped with REAR FLOOD LIGHT.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	074453	1	LIGHT ASSEMBLY, tail (Consists of items 2 thru 8)	
	904204	2	LOCKWASHER, 1/4"	
	911040	2	NUT, 1/4"NF	
2	047307	1	PLUG, cable connecting	
3	-----	1	BODY (Not serviced. Order item 1)	
4	074452	1	BULB, incandescent, single, 3 c.p., 24 volt	
5	043713	1	GASKET, glass cup	
6	043716	1	CUP (glass)	
7	034014	1	LENS (red)	
8	212758	1	RING, lens retaining	
9	067111	1	BRACKET, mounting	
10	066862	1	CAPSCREW, 5/8"NF x 4"	
	911044	1	NUT, 5/8"NF	
11	067112	1	BLOCK, spacing, mounting bracket	
12	067123	1	CABLE, rear section (50" long)	
13	208960	1	FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes	
14	053065	1	CABLE, front section (122" long)	
15	036887	1	GROMMET, cable protecting (For tractors with Cab)	
16	U-479	3	CLIP, front cable (single, 3/16" diam., 13/32" bolt-hole)	
17	AM-8691	2	CLIP, rear cable (single, 1/4" diam., 13/32" bolt-hole)	
18	035979	2	CAPSCREW, 3/8"NF x 5/8"	
	911115	2	WASHER, plain, SAE std., 3/8"	
19	044044	1	CLIP, rear cable (single, 1/4" diam., 17/32" bolt-hole)	
20	-----	1	SWITCH (See INSTRUMENTS)	



USAGE: Special Equipment. Applicable to all Models except units equipped with TAIL LIGHT.

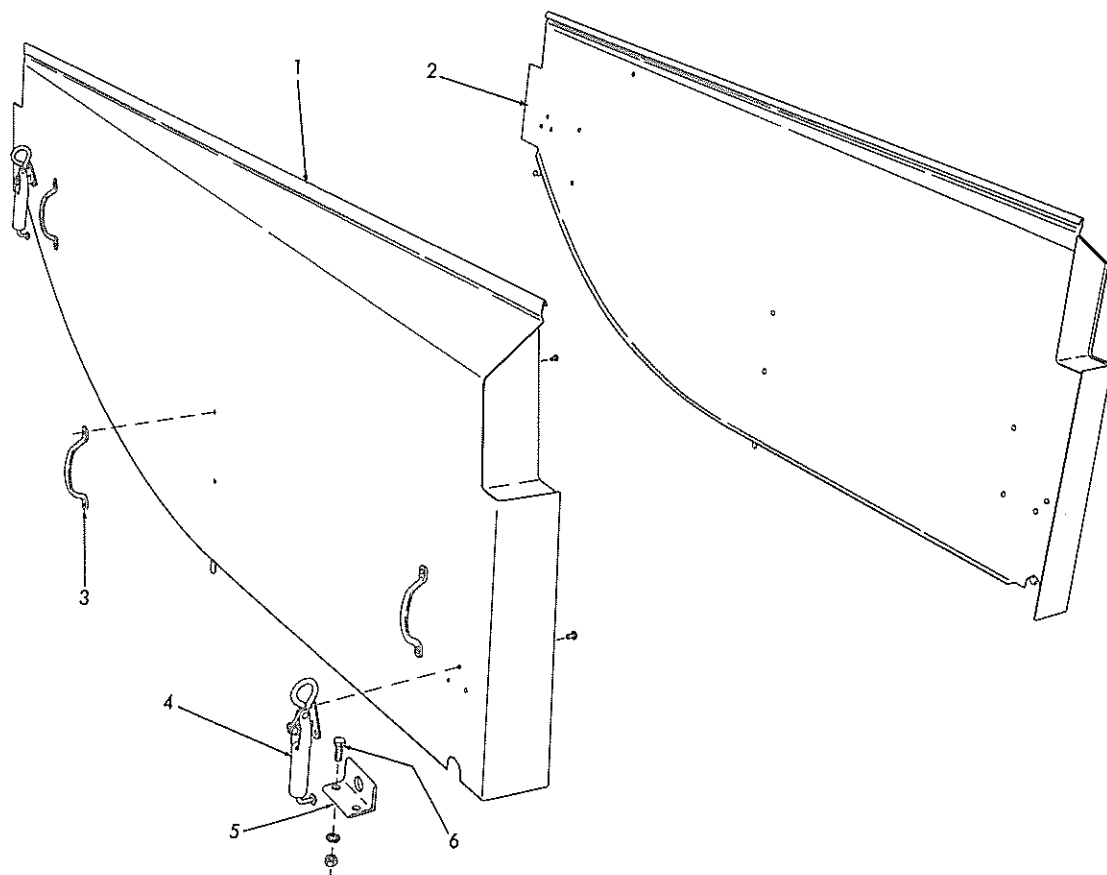
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	074388	1	LIGHT ASSEMBLY (See page 190 for repair parts)	
	911026	1	NUT, 3/8"NC	
	904206	1	LOCKWASHER, 3/8"	
2	052737	1	BRACKET, mounting	
3	035073	2	CAPSCREW, 1/2"NF x 1-3/4"	
	910244	2	WASHER, plain, SAE std., 1/2"	
	904208	2	LOCKWASHER, 1/2"	
	911043	2	NUT, 1/2"NF	
4	053277	1	WASHER, mounting	
5	066864	1	PLATE, mounting	
	911044	2	NUT, 5/8"NF	
6	066863	1	CABLE, rear section (53" long)	
7	208960	1	FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes	
8	053065	1	CABLE, front section (122" long)	
9	036887	1	GROMMET, cable protecting (For tractors with Cab)	
10	U-479	3	CLIP, rear cable (single, 3/16" diam., 13/32" bolt-hole)	
11	AM-8691	2	CLIP, rear cable (single, 1/4" diam., 13/32" bolt-hole)	
12	035979	2	CAPSCREW, 3/8"NF x 5/8"	
	911115	2	WASHER, plain, SAE std., 3/8"	
13	044044	2	CLIP, rear cable (single, 1/4" diam., 17/32" bolt-hole)	
14	-----	1	SWITCH (See INSTRUMENTS)	



ENGINE SIDE SCREENS

USAGE: Special Equipment. For Model HD20H only.

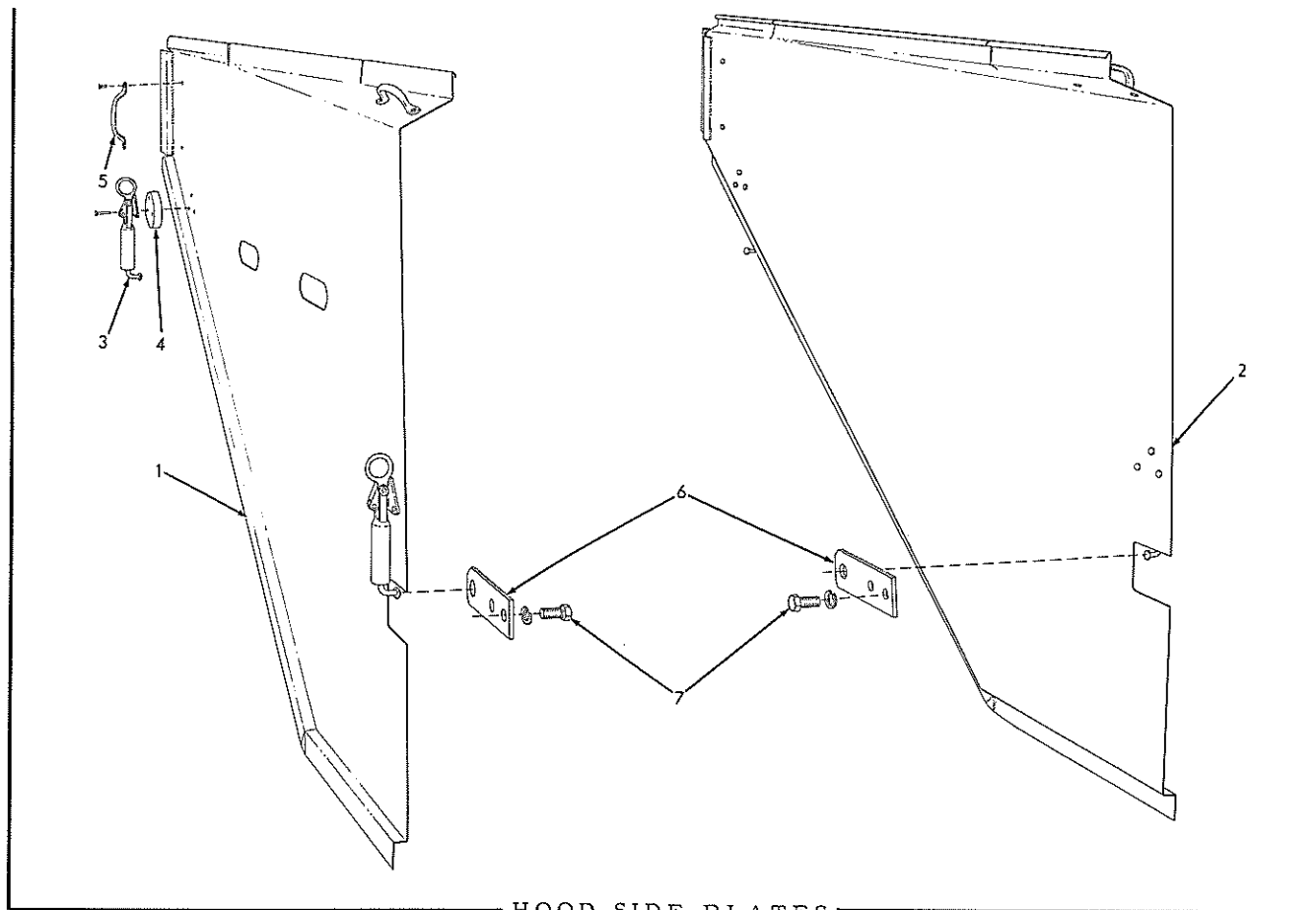
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	074449	1	SCREEN, left	
	074450	1	SCREEN, right	
2	067103	4	BRACKET, suspension	
3	012992	8	CAPSCREW, 3/8"NF x 1-1/4"	
	911115	8	WASHER, plain, SAE std., 3/8"	
	904206	8	LOCKWASHER, 3/8"	
	911041	8	NUT, 3/8"NF	
4	067165	2	PLATE, cowl reinforcing	
5	067118	4	BRACKET, latch	
6	012992	8	CAPSCREW, 3/8"NF x 1-1/4"	
	911115	8	WASHER, plain, SAE std., 3/8"	
	904206	8	LOCKWASHER, 3/8"	
	911041	8	NUT, 3/8"NF	
7	058908	4	LATCH ASSEMBLY (Each consists of 1 CLEVIS, 1 EYEBOLT, 2 PINS and 1 LEVER. Serviced only as a unit)	
	911041	8	NUT, 3/8"NF	
8	067162	4	PLATE, fender reinforcing	



HOOD SIDE PLATES

USAGE: Special Equipment. For Model HD20H only.

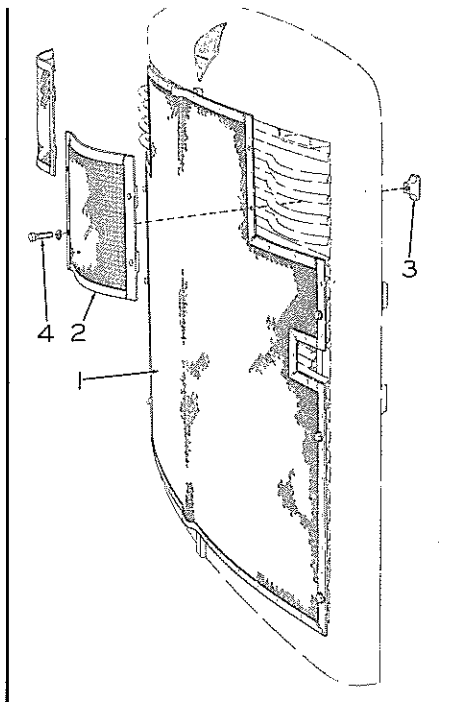
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	074361	1	PLATE ASSEMBLY, left (Includes items 3 and 4)	
2	074362	1	PLATE ASSEMBLY, right (Includes items 3 and 4)	
3	032834	6	HANDLE, lifting	
	900764	12	RIVET, fl-hd., 3/16" x 1/2"	
4	033060	4	FASTENER	
	900764	12	RIVET, fl-hd., 3/16" x 1/2"	
5	059899	2	ANGLE, latching	
6	035167	4	CAPSCREW, 3/8"NF x 7/8"	
	904206	4	LOCKWASHER, 3/8"	
	911041	4	NUT, 3/8"NF	



HOOD SIDE PLATES

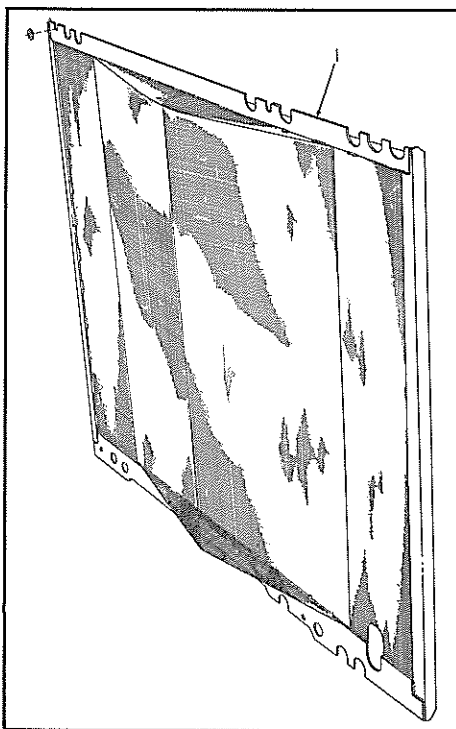
USAGE: Special Equipment. For Model HD20G only.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	077230	1	PLATE ASSEMBLY, left (Includes items 3 thru 5)	
2	077231	1	PLATE ASSEMBLY, right (Includes items 3 thru 5)	
3	033060	4	FASTENER	
	900764	6	RIVET, fl-hd., 3/16" x 1/2"	
	916023	6	RIVET, fl-hd., 3/16" x 1-1/8"	
4	077495	2	PLATE, spacing	
5	032834	4	HANDLE, lifting	
	900764	8	RIVET, fl-hd., 3/16" x 1/2"	
6	077228	2	PLATE, latching	
7	070467	4	CAPSCREW, 1/2"NF x 1"	
	904208	4	LOCKWASHER, 1/2"	



USAGE: Special Equipment. For Models HD20H and HD20F only. See page 83 for Model HD20G Screen.

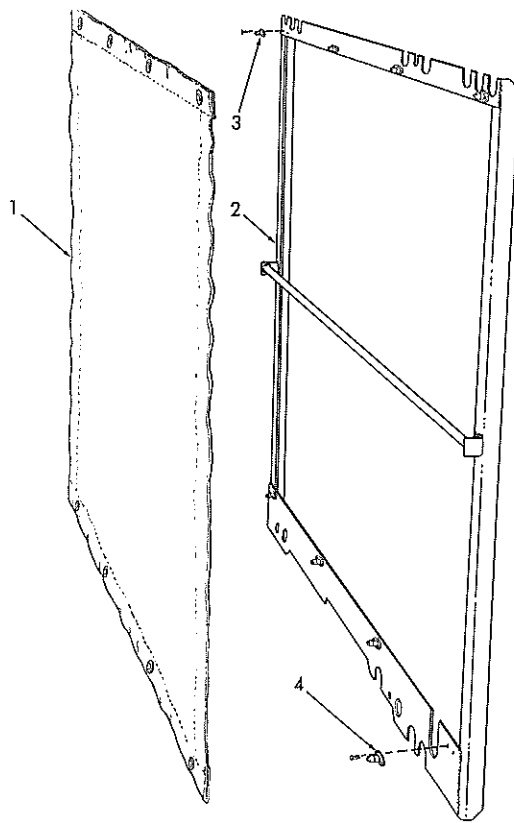
ITEM	PART NUMBER	QTY.	DESCRIPTION
1	066844	1	SCREEN, large section (Has 3 openings per lineal inch)
2	066909	2	SCREEN, small section
3	061855	14	LUG, attaching
4	013058	14	CAPSCREW, 3/8"NC x 1-1/4"
	904206	14	LOCKWASHER, 3/8"



RADIATOR SCREEN

USAGE: Special Equipment. For Models HD20H and HD20F only. Not for use with push-type fan. Mounts on front of radiator.

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	075903	1	SCREEN (Has 3 openings per lineal inch)
	911115	2	WASHER, plain, SAE std., 3/8"



RADIATOR CURTAIN

USAGE: Special Equipment for Model HD20H and HD20F. Cannot be used on tractors equipped with push-type fan.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	066665	1	CURTAIN (For use with RADIATOR ASSEMBLY 066450 only)	
	076182	1	CURTAIN (For use with RADIATOR ASSEMBLY 079606 only)	
2	066620	1	FRAME ASSEMBLY (Includes items 3 and 4)(For use with CURTAIN 066665 only)	
	076179	1	FRAME ASSEMBLY (Includes items 3 and 4)(For use with CURTAIN 076182 only)	
3	066661	4	FASTENER, curtain, upper (short type)	
	912839	8	RIVET, ctsk-hd., 1/8" x 1/4"	
4	066662	4	FASTENER, curtain, lower (long type)	
	912839	8	RIVET, ctsk-hd., 1/8" x 1/4"	

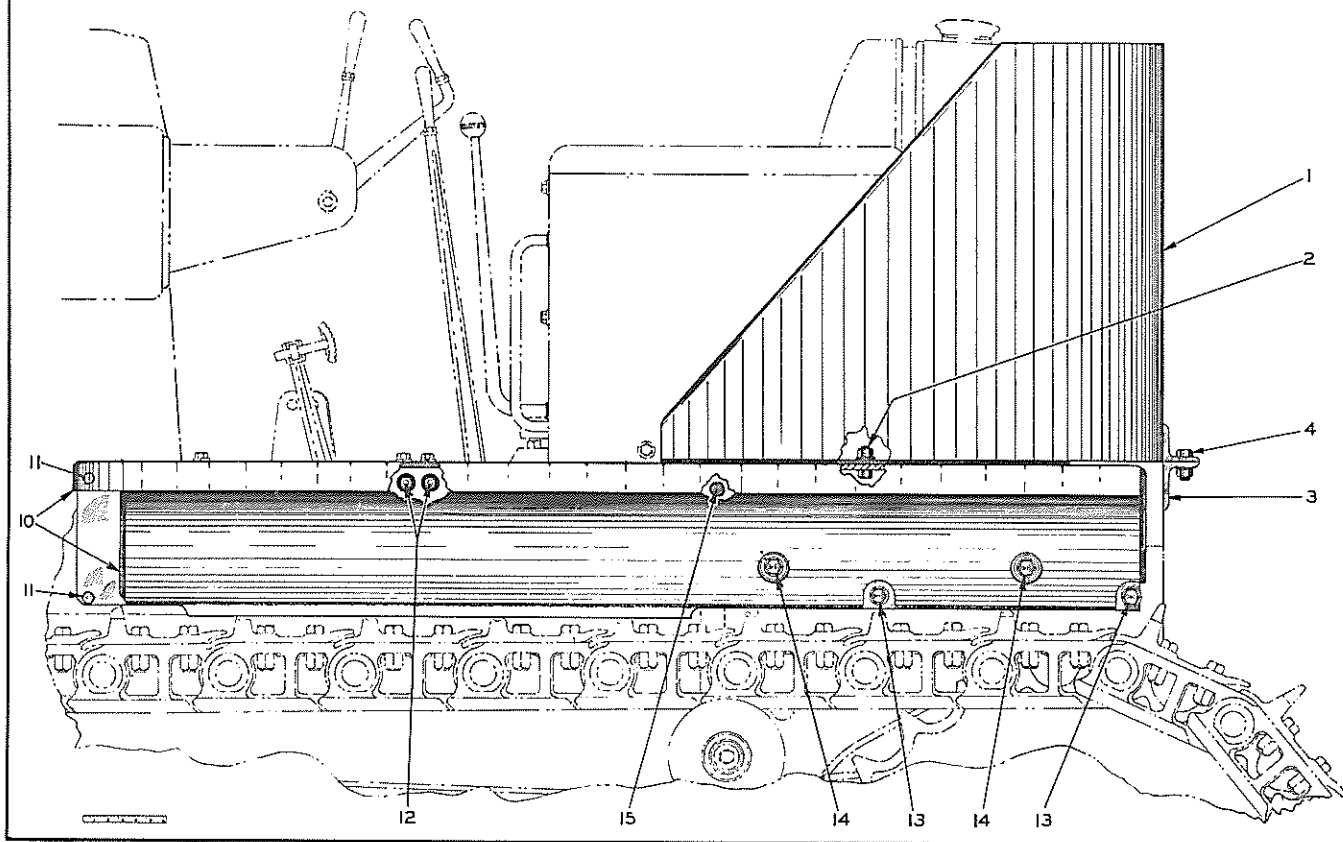
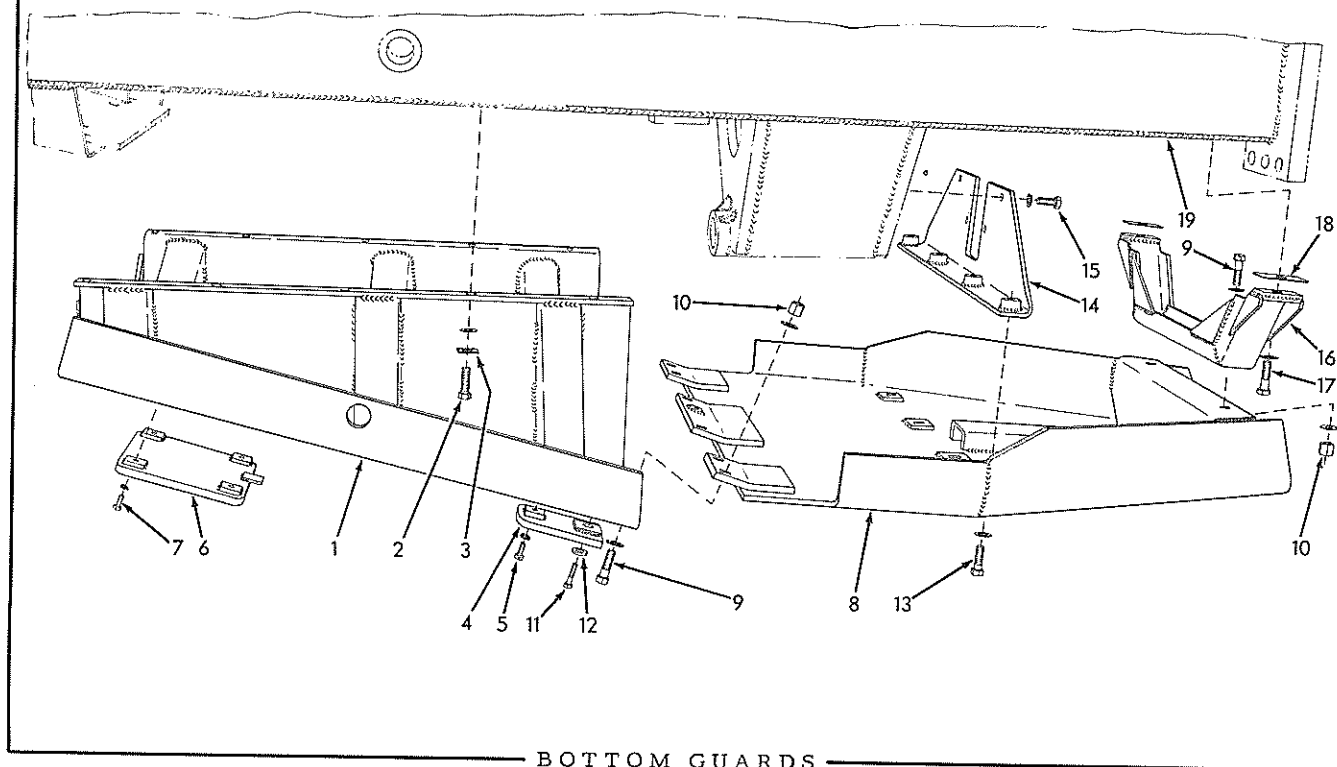


PLATE 2094— FUEL TANK AND SEAT GUARD

FUEL TANK AND SEAT GUARD
(See Plate 2094)

USAGE: Special Equipment. For Model HD20H only.

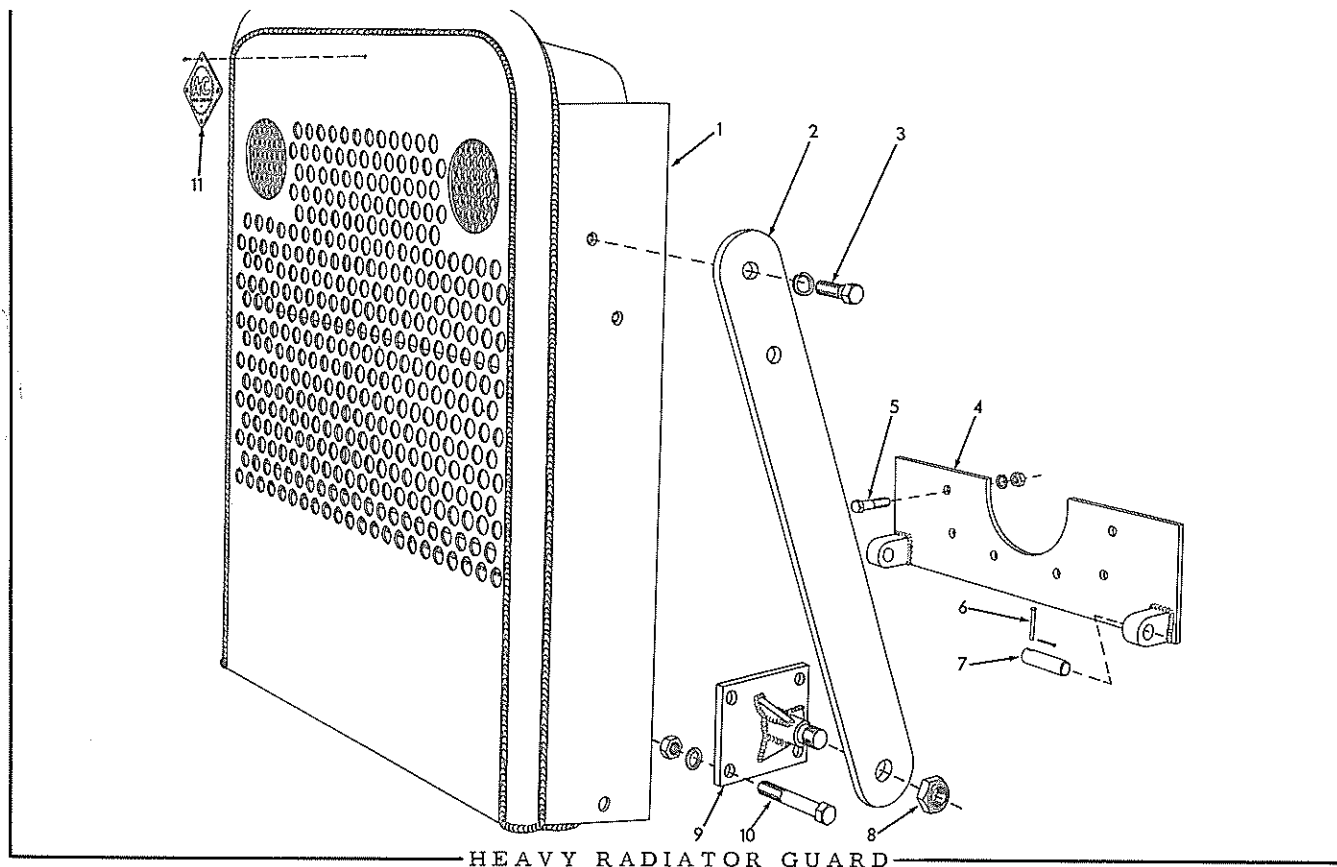
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	060806	1	GUARD	
2	023465	6	CAPSCREW, 5/8"NF x 1-3/4"	
	911044	6	NUT, 5/8"NF	
	911100	12	WASHER, plain, SAE std., 5/8"	
3	065936	1	ANGLE, reinforcing	
4	023465	3	CAPSCREW, 5/8"NF x 1-3/4"	
	911044	3	NUT, 5/8"NF	
	904209	3	LOCKWASHER, 5/8"	
10	060679	1	FENDER, rear - left (Used in place of standard FENDER 052875)	
	060680	1	FENDER, rear - right (Used in place of standard FENDER 052876)	
11	070469	4	CAPSCREW, 1/2"NF x 1-1/4"	
12	035018	4	CAPSCREW, 1/2"NF x 1-1/2"	
13	072396	4	CAPSCREW, 3/4"NF x 1-1/2"	
	904369	4	LOCKWASHER, 3/4"	
14	012453	4	CAPSCREW, 3/4"NF x 2"	
	904369	4	LOCKWASHER, 3/4"	
15	046419	2	CAPSCREW, 3/8"NF x 2" (Used in place of standard CAPSCREW 035167 to attach cable clips on left fender)	



— BOTTOM GUARDS —

USAGE: Special Equipment. Applicable to Model HD20H only.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	069994	1	GUARD ASSEMBLY, bottom, front section (Includes items 4 thru 7) (Used in place of standard crankcase GUARD 074031)	
2	012742	10	CAPSCREW, 3/4"NF x 2-1/4"	
	910255	10	WASHER, plain, SAE std., 3/4"	
3	067091	10	PLATE, capscREW locking	
4	069986	1	COVER, oil drain opening, rear	
5	070469	1	CAPSCREW, 1/2"NF x 1-1/4"	
	904208	1	LOCKWASHER, 1/2"	
6	069985	1	COVER, oil and water drain opening, front	
7	070469	4	CAPSCREW, 1/2"NF x 1-1/4"	
	904208	4	LOCKWASHER, 1/2"	
8	060555	1	GUARD, bottom, rear section	
9	013465	8	CAPSCREW, 3/4"NF x 2-1/2"	
	910255	16	WASHER, plain, SAE std., 3/4"	
10	012767	8	NUT, high, 3/4"NF	
11	035067	1	CAPSCREW, 1/2"NF x 2"	
12	047063	1	WASHER, plain	
13	012742	4	CAPSCREW, 3/4"NF x 2-1/4"	
	910255	4	WASHER, plain, SAE std., 3/4"	
14	060556	1	SUPPORT, rear bottom guard	
15	072595	4	CAPSCREW, 3/4"NF x 1-3/4"	
	904369	4	LOCKWASHER, 3/4"	
16	060557	1	CHANNEL, supporting, guard rear section	
17	012984	2	CAPSCREW, 3/4"NF x 2-3/4"	
	910255	2	WASHER, plain, SAE std., 3/4"	
18	073309	2	SHIM, channel adjustment (Use as req'd)	
19	-----	1	FRAME (See MAIN FRAME)	



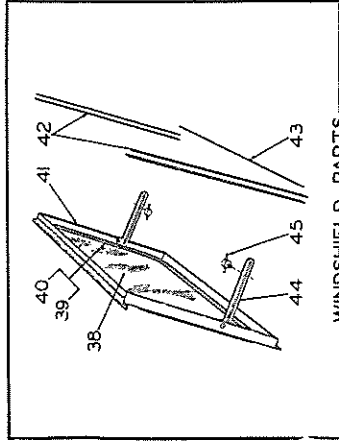
USAGE: Standard Equipment on Model HD20G. Special Equipment on Models HD20F and HD20H. Installation requires removal of standard BUMPER and GRILLE.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
NOTE: Order all parts from Tractomotive Corporation, Deerfield, Illinois unless otherwise indicated, or from nearest authorized dealer.				
1	7076	1	GUARD, radiator	
2	7087	2	STRUT, bracing	
3	5197	4	CAPSCREW, 1"NC x 2-3/4"	
	910916	4	LOCKWASHER, 1"	
4	7088	1	PLATE, mounting	
5	5198	6	CAPSCREW, 1"NC x 3-3/4"	
	910916	6	LOCKWASHER, 1"	
	915580	6	NUT, 1"NC	
6	1621	2	PIN, retaining, guard hinge pin	
	900806	2	PIN, cotter, 1/8" x 1"	
7	5217	2	PIN, guard hinge	
8	5706	2	NUT, strut mounting bracket	
9	6995	1	BRACKET, strut mounting, left	
	6996	1	BRACKET, strut mounting, right	
10	6756	8	CAPSCREW, 1"NC x 6-1/4"	
	910916	8	LOCKWASHER, 1"	
	915580	8	NUT, 1"NC	
11	074794	1	MONOGRAM, "A-C" (Order from ALLIS-CHALMERS)	
	910219	4	SCREW, drive, #7 x 5/16"	

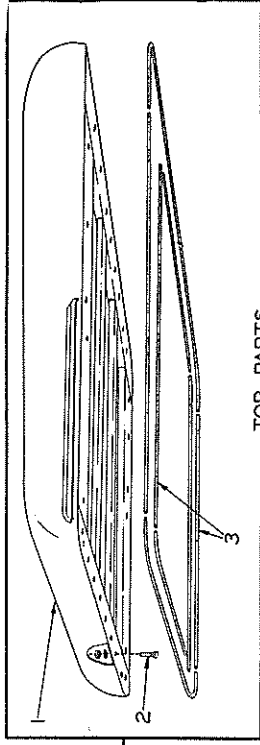
USAGE: Special Equipment

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	077531	1	TOP, cab	
2	035439	26	CAPSCREW, 3/8"NC x 1"	
	904206	26	LOCKWASHER, 3/8"	
	911026	26	NUT, 3/8"NC	
3	078387	16	SEAL, cab top (30" long)	
5	078089	1	PANEL, cab rear section (stripped of all removable parts)	
6	037431	4	CAPSCREW, 1/2"NC x 4"	
	915691	4	WASHER, plain (1/8" thick)	
	904208	4	LOCKWASHER, 1/2"	
	911028	4	NUT, 1/2"NC	
	914814	4	SCREW, machine, fl-hd., 3/8"NC x 1"	
7	078088	1	PANEL, cab front section (Stripped of all removable parts)	
8	041877	4	CAPSCREW, 1/2"NC x 3"	
	915691	4	WASHER, plain (1/8" thick)	
	904208	4	LOCKWASHER, 1/2"	
	911028	4	NUT, 1/2"NC	
	914814	4	SCREW, machine, fl-hd., 3/8"NC x 1"	
	911026	4	NUT, 3/8"NC	
	904206	4	LOCKWASHER, 3/8"	
9	077476	8	MOUNT, shock (rubberized fabric)	
10	077477	4	BUSHING, shock mount spacing (1-1/4" long)	
11	077478	4	BUSHING, shock mount spacing (2-1/4" long)	
12	077479	8	WASHER, shock mount (rubberized fabric)	
13	077720	2	SEAL, front sill (rubber, 8-3/4" long)	
14	077794	2	SEAL, front sill (rubber, 11" long)	
15	077721	2	SEAL, side sill (rubber, 5" long)	
16	077723	4	SEAL, side sill (rubber, 18-1/2" long)	
17	077835	2	FILLER, rear sill (rubber)	
18	077473	2	GLASS, front panel, upper	
19	077779	2	SEAL, front panel upper glass	
20	077762	2	STRIP, expanding, front panel upper glass seal	
21	077474	2	GLASS, front panel, lower	
22	077780	2	SEAL, front panel lower glass	
23	077763	2	STRIP, expanding, front panel lower glass seal	
24	077471	2	GLASS, side panel	
25	077785	2	SEAL, side panel glass	
26	077767	2	STRIP, expanding, side panel glass seal	
27	077466	2	GLASS, rear panel, side	
28	077782	2	SEAL, rear panel side glass	
29	077766	2	STRIP, expanding, rear panel side glass seal	
30	077472	2	GLASS, sliding, rear panel	
31	077733	2	GRIP, rear panel sliding glass	

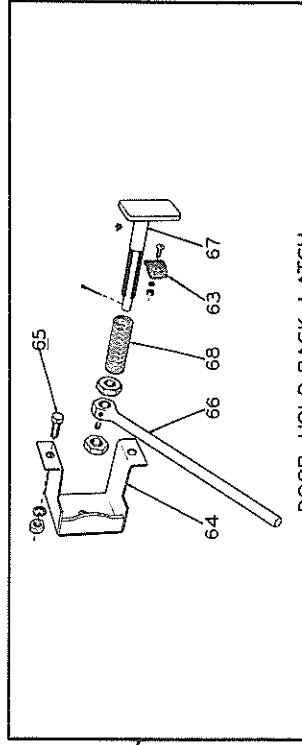
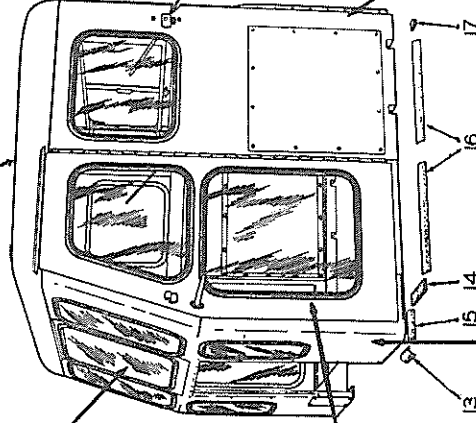
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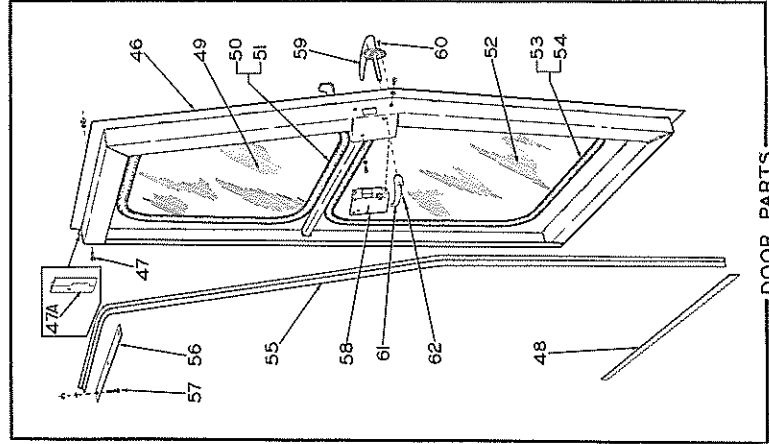
WINDSHIELD PARTS



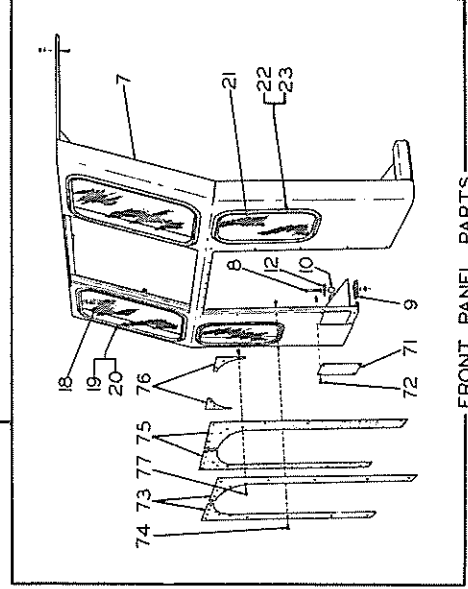
TOP PARTS



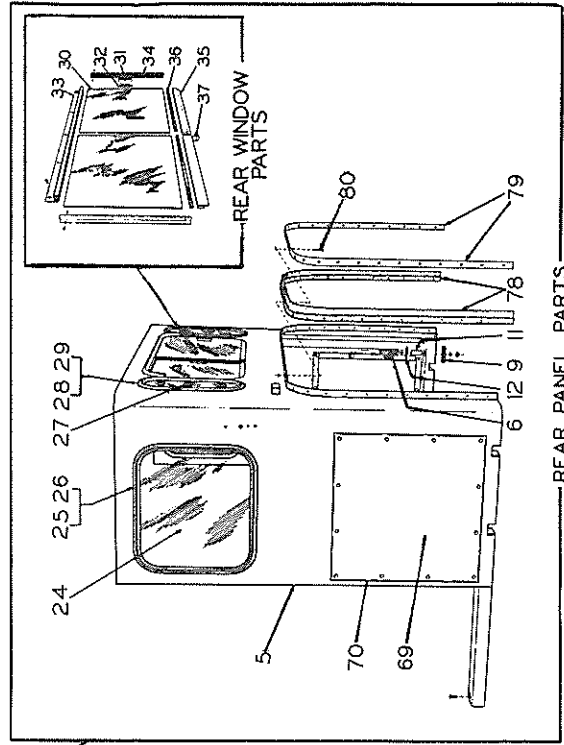
DOOR HOLD-BACK LATCH



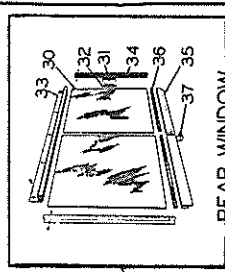
DOOR PARTS



FRONT PANEL PARTS



REAR PANEL PARTS



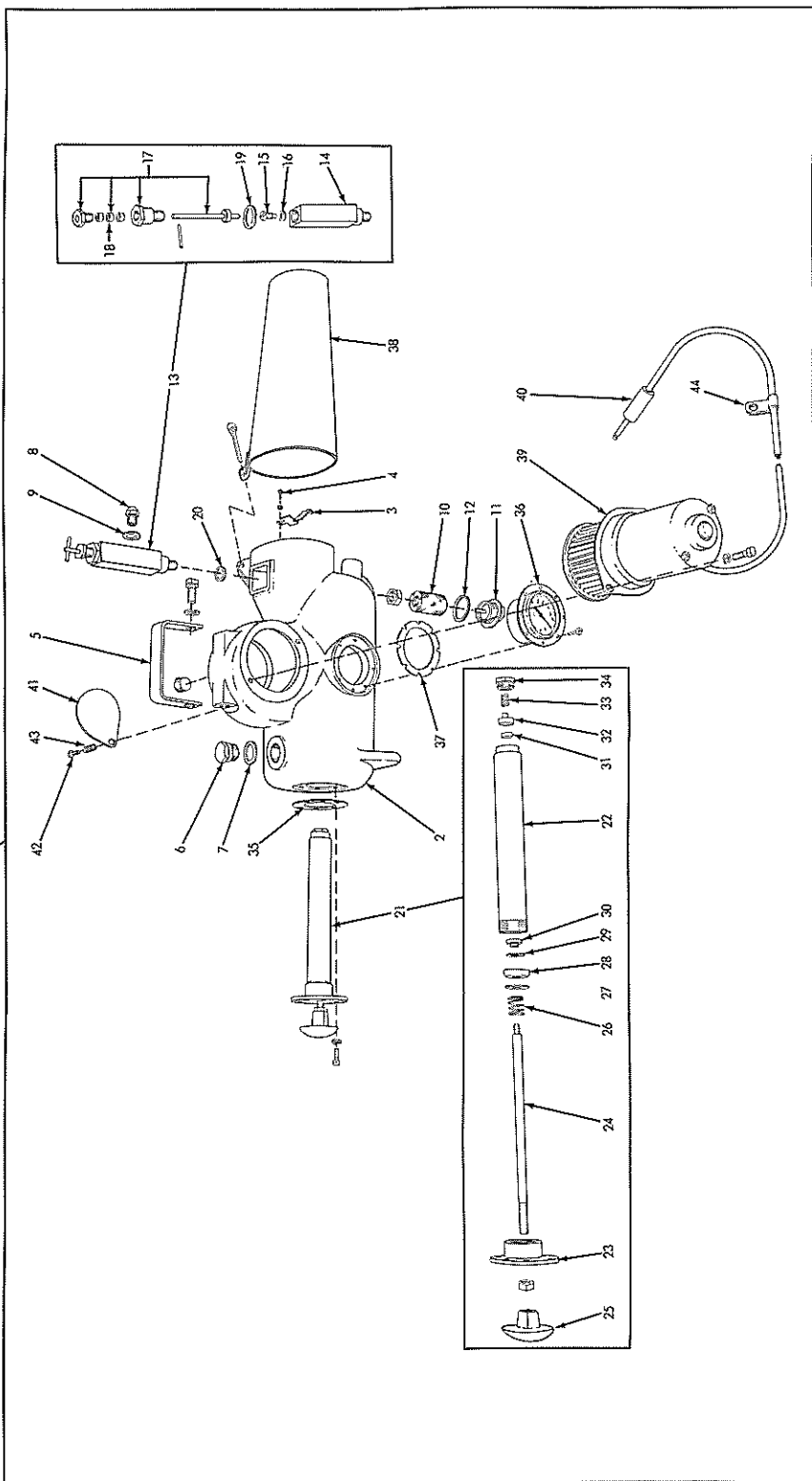
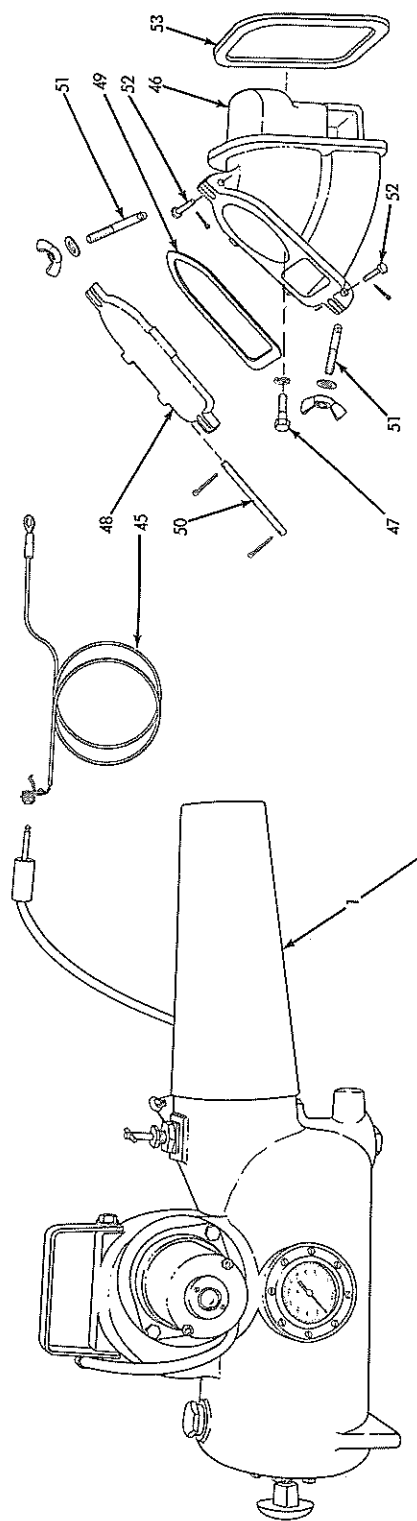
REAR WINDOW PARTS

ITEM	NUMBER	QTY.	DESCRIPTION	KIT NUMBER
32	077996	2	SEAL, sliding glass grip (rubber)	
33	077737	1	RETAINER ASSEMBLY, rear sliding glass, upper (Includes rubber WEATHERSEAL)	
	900576	5	SCREW, machine, 1/4"NC x 3/4"	
34	077795	2	CHANNEL ASSEMBLY, sliding glass, side (Includes rubber WEATHERSEAL)	
	900549	2	SCREW, machine, #6-32NC x 3/4"	
	901309	2	NUT, #6-32NC	
35	077465	2	CHANNEL, rear glass bottom slide	
36	077954	2	SEAL, rear glass bottom slide	
37	077534	1	SCREW ASSEMBLY, rear glass friction lock (Includes HANDLE)	
38	077475	1	GLASS, windshield	
39	077784	1	SEAL, windshield glass	
40	077761	1	STRIP, expanding, windshield glass seal	
41	077615	1	FRAME, windshield (Stripped of all removable parts. Includes item 44)	
42	077744	4	SEAL, windshield, side (sponge rubber)	
43	078220	1	SEAL, windshield, bottom (sponge rubber)	
44	-----	2	ARM, windshield regulating	
	910901	2	RIVET, 1/4" x 1-1/8"	
45	077534	2	SCREW ASSEMBLY, windshield adjustment (Includes HANDLE)	
46	{ 077695	1	DOOR, left (Stripped of all removable parts. Includes item 47A)	
	{ 077696	1	DOOR, right (Stripped of all removable parts. Includes item 47A)	
47	034964	24	CAPSCREW, 1/4"NC x 3/4"	
	904204	24	LOCKWASHER, 1/4"	
	911024	24	NUT, 1/4"NC	
47A	{ 081171	1	HINGE, left door (Requires welding to door)	
	{ 081172	1	HINGE, right door (Requires welding to door)	
48	077995	2	SEAL, door bottom (rubber, 1/8" x 3/4" x 25-3/4")	
49	077468	2	GLASS, door, upper	
50	077781	2	SEAL, door upper glass	
51	077764	2	STRIP, expanding, door upper glass seal	
52	077467	2	GLASS, door, lower	
53	077783	2	SEAL, door lower glass	
54	077765	2	STRIP, expanding, door lower glass seal	
55	077736	2	SEAL, door front and top (76" long)	
56	077994	2	RETAINER, door weatherstrip, top	
57	077993	6	SCREW, truss-hd., 1/4"NC x 1"	
	904204	6	LOCKWASHER, 1/4"	
	911024	6	NUT, 1/4"NC	
58	{ 077641	1	LOCK ASSEMBLY, left door (Serviced only as a unit)	
	{ 077642	1	LOCK ASSEMBLY, right door (Serviced only as a unit)	
	903755	6	SCREW, machine, #12-24NC x 3/4"	
	916158	6	LOCKWASHER, #12	
59	077526	2	HANDLE, door, outside	
60	077717	4	SCREW, machine, oval head, 1/4"NC x 5/8"	

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
61	077546	2	HANDLE, door, inside	
62	077719	2	SCREW, machine, oval head, #10-32NF x 1/2"	
63	077836	2	BUMPER, door	
	900549	2	SCREW, machine, #6-32NC x 3/4"	
	906963	2	LOCKWASHER, #6	
	901309	2	NUT, #6-32NC	
64	077541	2	HOUSING, door hold-back latch	
65	035439	4	CAPSCREW, 3/8"NC x 1"	
	904206	4	LOCKWASHER, 3/8"	
	911041	4	NUT, 3/8"NC	
66	077535	2	LEVER, door hold-back latch	
	903835	2	SETSCREW, hex-socket, cup-pt., 1/4"NC x 3/8"	
67	{	078403	1	SPINDLE, left door hold-back latch
		078404	1	SPINDLE, right door hold-back latch
		900370	4	NUT, 5/8"NC
		900801	2	PIN, cotter, 3/32" x 3/4"
68	077874	2	SPRING, door hold-back latch	
69	077480	2	COVER ASSEMBLY, battery access (Includes item 70)	
	903626	24	CAPSCREW, 5/16"NC x 3/4"	
	904205	24	LOCKWASHER, 5/16"	
70	078705	8	SEAL, battery access cover (sponge rubber, 1/8" x 1" x 21")	
71	077778	1	COVER, front panel cut-out	
72	035244	2	CAPSCREW, 3/8"NC x 3/4"	
	904206	2	LOCKWASHER, 3/8"	
	911026	2	NUT, 3/8"NC	
73	077490	2	FILLER, front panel	
74	035244	16	CAPSCREW, 3/8"NC x 3/4"	
	904206	16	LOCKWASHER, 3/8"	
	911026	16	NUT, 3/8"NC	
75	077491	2	RUBBER, front panel filler	
76	077489	2	RETAINER, front panel filler rubber	
77	035244	6	CAPSCREW, 3/8"NC x 3/4"	
	904206	6	LOCKWASHER, 3/8"	
	911026	6	NUT, 3/8"NC	
78	077462	2	SEAL, cab body, rear	
79	077461	2	RETAINER, cab body rear weatherseal	
80	082153	42	SCREW, truss-hd., 1/4"NC x 3/4"	
	916205	42	NUT, speed, 1/4"NC	

			USAGE: Special Equipment	
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	047747	1	PRE-HEATER ASSEMBLY (Consists of items 2 thru 44)	
2	{ 042713 904223	1	CASE, main	
		1	PLUG, pipe, ctsk-hd., 1/2"NPT	
3	042715	1	BLADE, air deflecting	
4	{ 034076 906964	2	SCREW, thread-cutting, cross-recessed-hd., #8 x 1/2"	
		2	LOCKWASHER, #8	
5	{ 042730 903628 904206	1	HANDLE, carrying	
		2	CAPSCREW, 3/8"NC x 5/8"	
		2	LOCKWASHER, 3/8"	
6	042752	1	PLUG, filling hole	
7	042751	1	GASKET, filling hole plug	
8	042738	1	NOZZLE, spray	
9	5151921	1	WASHER, spray nozzle	
10	042743	1	FILTER, fuel	
11	042739	1	PLUG, filter access hole	
12	042744	1	GASKET, filter access hole plug	
13	{ 047734 913830	1	VALVE ASSEMBLY, fuel shut-off (Includes items 14 thru 19)	
		1	NUT, jam, 1/2"NF	
14	047735	1	BODY, fuel shut-off valve	
15	223914	1	VALVE ASSEMBLY, fuel (Consists of 1 NEEDLE, 1 SEAT and 1 GASKET 224151)	
16	224151	1	GASKET, fuel valve	
17	047738	1	STEM ASSEMBLY, fuel shut-off valve (Serviced only as a unit) (Includes item 18)	
18	048734	3	RING, packing, fuel shut-off valve	
19	047744	1	GASKET, fuel shut-off valve	
20	5151921	1	WASHER, fuel shut-off valve body	
21	{ 042716 905656 904204	1	PUMP ASSEMBLY, air (Consists of items 22 thru 34)	
		6	CAPSCREW, 1/4"NC x 5/8"	
		6	LOCKWASHER, 1/4"	
22	042718	1	TUBE, air pump	
23	042717	1	NUT, air pump tube	
24	{ 042721 911041	1	SHAFT, air pump	
		1	NUT, 3/8"NF	
25	049659	1	KNOB, air pump	
26	016702	1	SPRING, air pump shaft	
27	042722	1	WASHER, outer, air pump leather	
28	042723	1	LEATHER, air pump	
29	042724	1	WASHER, inner, air pump leather	
30	042725	1	NUT, air pump shaft	
31	042726	1	GASKET, air pump valve	

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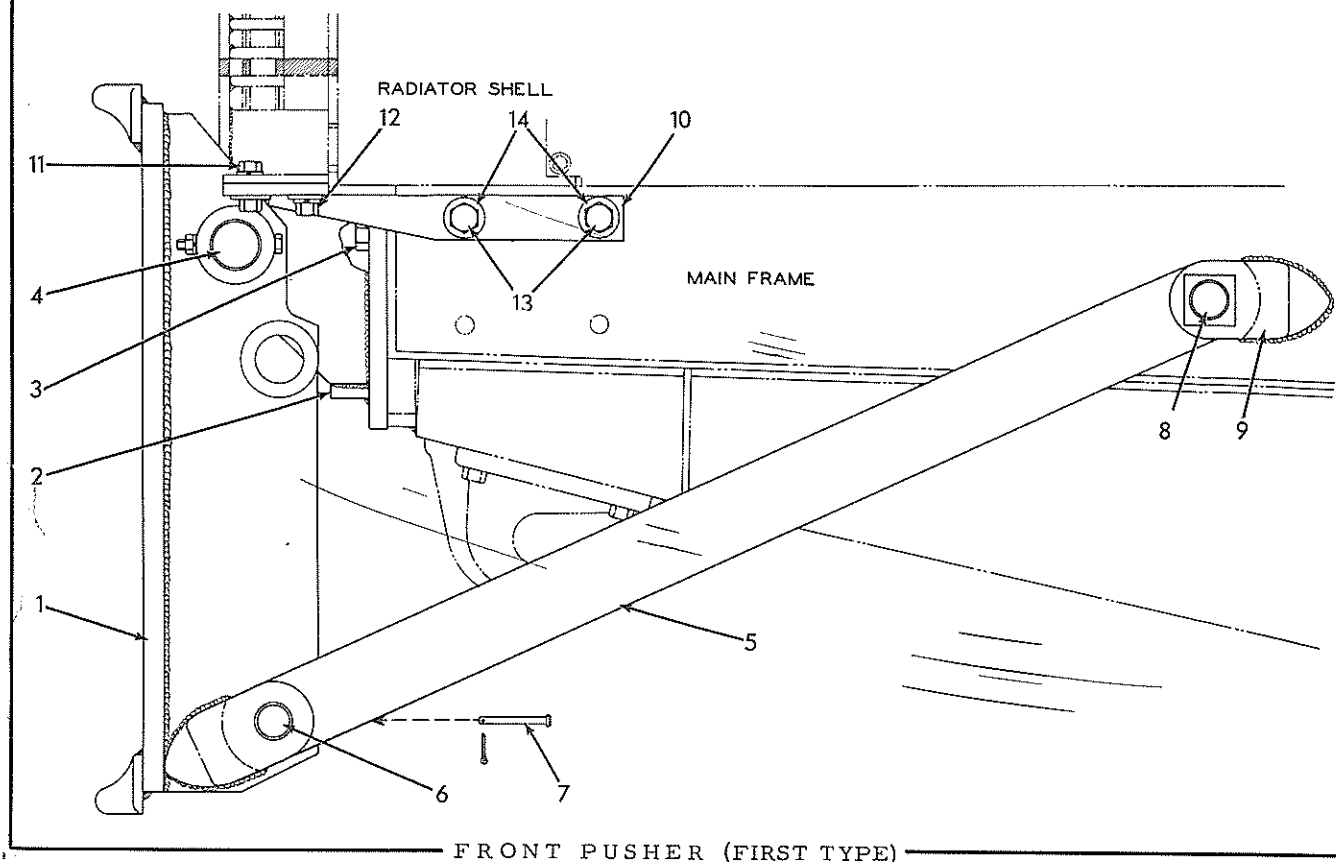


ENGINE PRE-HEATER (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
32	042727	1	VALVE, air pump	
33	031580	1	SPRING, air pump valve	
34	042728	1	NUT, air pump valve	
35	042729	1	GASKET, air pump to case	
36	{ 042745 903748	1 8	GAUGE, air pressure SCREW, machine, fil.-hd., #6NC x 3/8"	
37	042753	1	GASKET, air pressure gauge	
38	{ 042747 901344	1 1	TUBE, extension PIN, cotter, 1/4" x 2"	
39	{ 047733 906692 904204	1 2 2	MOTOR AND FAN, blower (Serviced only as a unit) CAPSCREW, 1/4"NC x 3/8" LOCKWASHER, 1/4"	
40	047732	1	PLUG, motor connection	
41	042750	1	PLATE, air regulating	
42	033200	1	SCREW, thread-cutting, cross-recessed-hd., 1/4"NF x 3/4"	
43	031580	1	SPRING, air regulating plate	
44	AM-8691	1	CLIP, motor cable (single, closed type, 1/4" diam., 13/32" bolt-hole)	

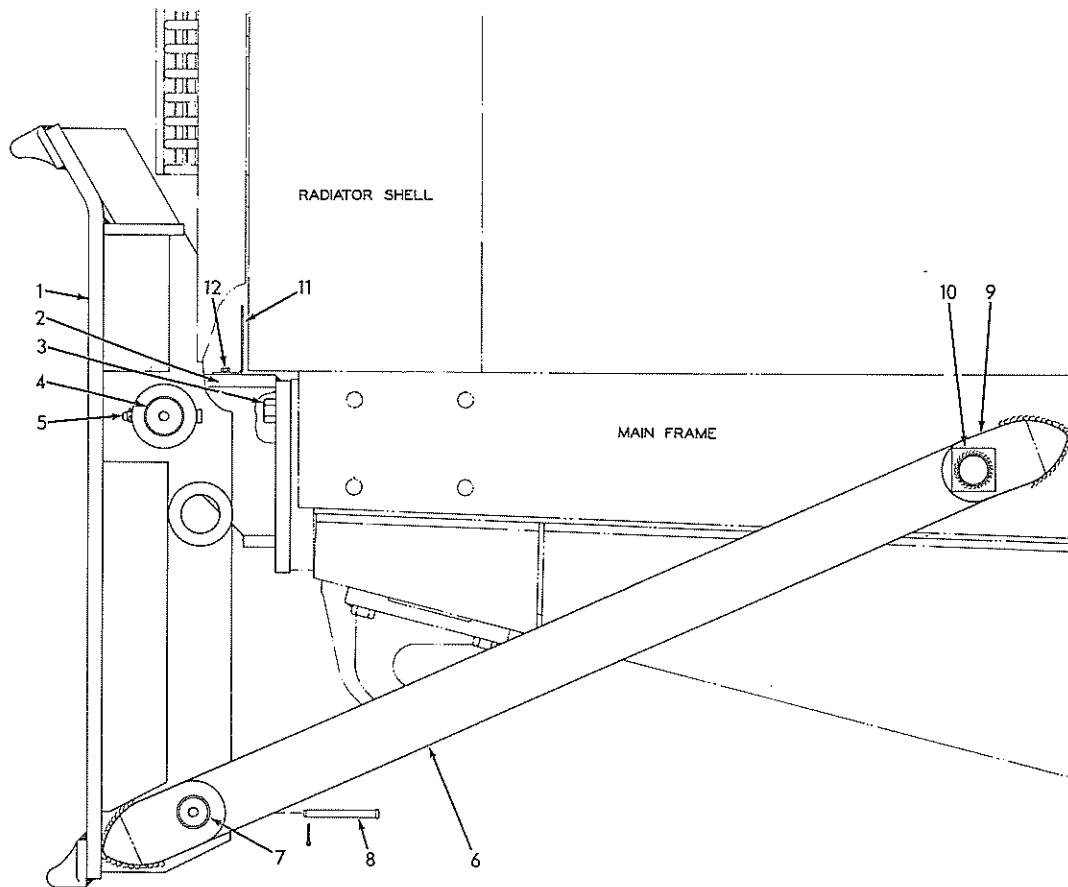
NOTE: Items listed below comprise the PRE-HEATER ADAPTING PARTS which are mounted permanently on the tractor.

45	047730	1	JACK, motor connection (Includes CABLE and mounting NUT)	
46	048728	1	ELBOW, inlet	
47	{ 035439 904206	1 1	CAPSCREW, 3/8"NC x 1" LOCKWASHER, 3/8"	
48	042694	1	COVER, inlet elbow	
49	042692	1	GASKET, inlet elbow cover	
50	{ 042693 904001	1 2	PIN, hinge, inlet elbow cover PIN, cotter, 3/32" x 1/2"	
51	{ 042691 915017 911115	2 2 2	STUD, fastening, inlet elbow cover NUT, wing, 3/8"NC WASHER, plain, SAE std., 3/8"	
52	{ U-2787 900970	2 2	PIN, hinge, inlet elbow cover stud PIN, cotter, 1/16" x 1/2"	
53	049205	1	GASKET, inlet elbow to cylinder block (heat resistant)	



USAGE: Special Equipment. Used prior to April, 1954 on Models HD20H and HD20F only.

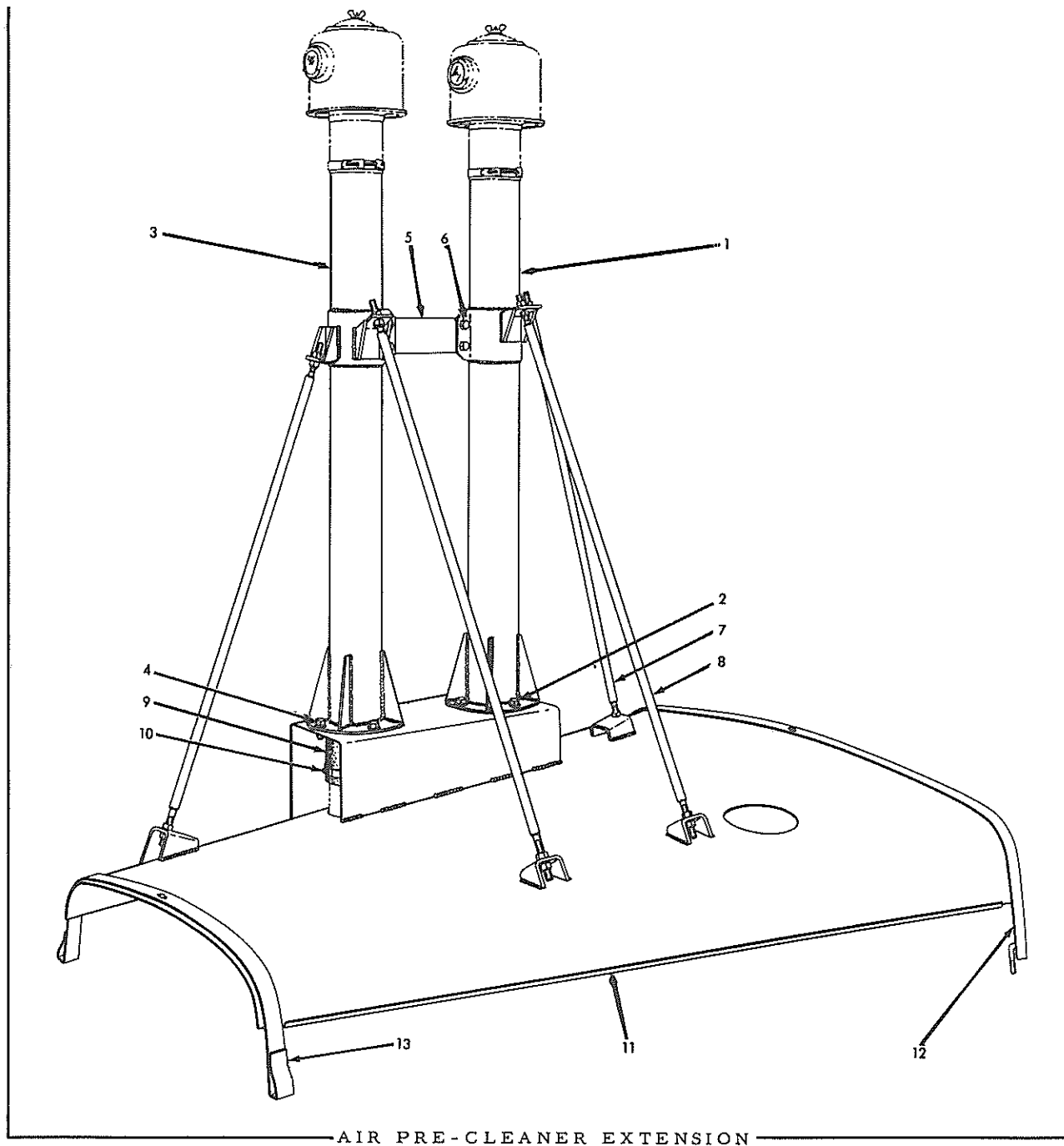
ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	-----	1	PLATE, front (Not serviced. Order PLATE 079886)	
2	079844	1	BRACKET, supporting	
3	031055	6	CAPSCREW, 1"NF x 4"	
	911047	6	NUT, 1"NF	
	910916	6	LOCKWASHER, 1"	
4	078497	2	PIN, front plate	
	-----	2	BOLT, machine, 9/16"NC x 5" (Order PIN 078508)	
	912907	2	NUT, 9/16"NC	
	910153	2	LOCKWASHER, 9/16"	
5	079974	2	STRUT, front plate bracing	
6	079976	2	PIN, bracing strut, front	
7	079975	2	PIN, retaining, bracing strut pin	
	900806	2	PIN, cotter, 1/8" x 1"	
8	079848	2	PIN, bracing strut, rear	
	911058	2	NUT, castle, 1-1/2"NF	
	901345	2	PIN, cotter, 1/4" x 2-1/2"	
	900825	2	WASHER, plain, U.S. std., 1-1/2"	
9	079884	2	CASTING, strut attachment (Requires welding in place)	
10	{ 067203	1	SUPPORT, radiator grille, left	
	{ 067204	1	SUPPORT, radiator grille, right	
11	012742	2	CAPSCREW, 3/4"NF x 2-1/4"	
12	013465	2	CAPSCREW, 3/4"NF x 2-1/2"	
	910255	4	WASHER, plain, SAE std., 3/4"	
	904369	4	LOCKWASHER, 3/4"	
	911045	2	NUT, 3/4"NF	
13	048075	4	CAPSCREW, 1"NF x 6-1/2"	
	900822	4	WASHER, plain, U.S. std., 1"	
	910916	4	LOCKWASHER, 1"	
	911047	4	NUT, 1"NF	
14	038182	4	WASHER, plain (1/4" thick)	



FRONT PUSHER (SECOND TYPE)

USAGE: Special Equipment. Used after March 1954 on Models HD20H and HD20F only.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	079886	1	PUSHER, front	
2	079844	1	BRACKET, supporting	
3	031055	6	CAPSCREW, 1"NF x 3-3/4"	
	910916	6	LOCKWASHER, 1"	
	911047	6	NUT, 1"NF	
4	078497	2	PIN, pusher mounting	
5	078508	2	PIN, retaining, pusher mounting pin	
	900806	2	PIN, cotter, 1/8" x 1"	
6	079974	2	STRUT, pusher bracing	
7	079976	2	PIN, bracing strut, front	
8	079975	2	PIN, retaining, bracing strut front pin	
	900806	2	PIN, cotter, 1/8" x 1"	
9	079884	2	LUG, strut attachment (Requires welding in place)	
10	079848	2	PIN, bracing strut, rear	
	900825	2	WASHER, plain, U.S. std., 1-1/2"	
	911058	2	NUT, castle, 1-1/2"NF	
	901345	2	PIN, cotter, 1/4" x 2-1/2"	
11	079977	1	BAFFLE, air	
12	035167	3	CAPSCREW, 3/8"NF x 7/8"	
	904206	3	LOCKWASHER, 3/8"	



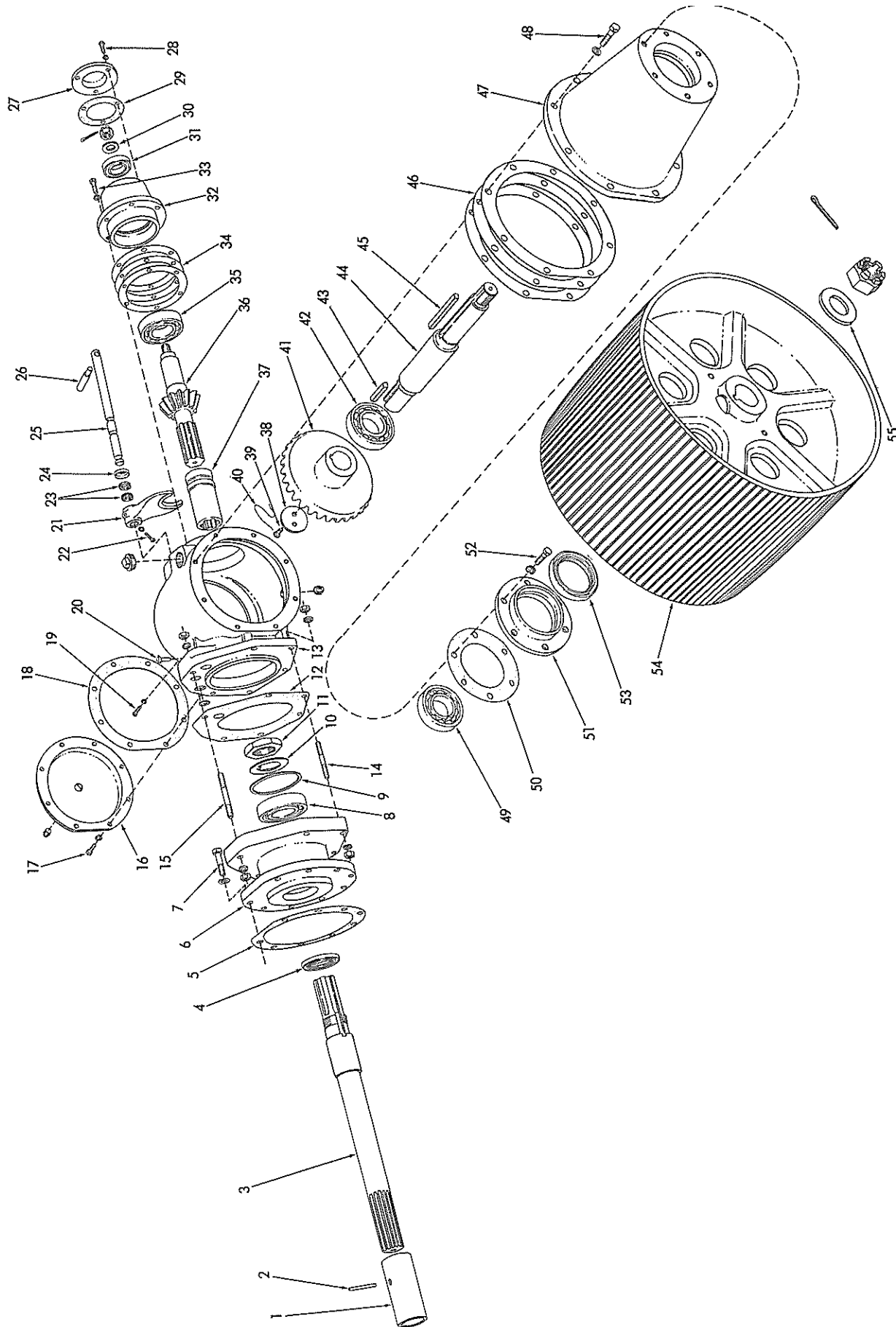
USAGE: Special Equipment. Not applicable to Model HD20G.

* For Tractors equipped with 12" air cleaners.
 ** For Tractors equipped with 14" air cleaners.

PART QUANTITY				DESCRIPTION	KIT NUMBER
ITEM	NUMBER	*	**		
1	074428	1	1	TUBE, extension, front	
2	070469	4	4	CAPSCREW, 1/2"NF x 1-1/4"	
	910244	8	8	WASHER, plain, SAE std., 1/2"	
	904208	4	4	LOCKWASHER, 1/2"	
	911043	4	4	NUT, 1/2"NF	

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ITEM	PART NUMBER	QUANTITY	DESCRIPTION	KIT NUMBER
3	074427	1 1	TUBE, extension, rear	
4	070469	4 4	CAPSCREW, 1/2"NF x 1-1/4"	
	910244	8 8	WASHER, plain, SAE std., 1/2"	
	904208	4 4	LOCKWASHER, 1/2"	
	911043	4 4	NUT, 1/2"NF	
5	074430	1 -	PLATE, bracing, extension tubes (8-3/4" long)	
	078612	- 1	PLATE, bracing, extension tubes (10-3/4" long)	
6	070467	4 4	CAPSCREW, 1/2"NF x 1"	
	904208	4 4	LOCKWASHER, 1/2"	
	911043	4 4	NUT, 1/2"NF	
7	055599	2 2	ROD, bracing, extension tubes (41-5/8" long)	
	911043	8 8	NUT, 1/2"NF	
8	055599	2 -	ROD, bracing, extension tubes, side (41-5/8" long)(Not used after approx. May 1952)	
	076562	2 2	ROD, bracing, extension tubes, side (47-1/8" long)	
	911043	8 8	NUT, 1/2"NF	
9	074335	2 2	HOSE, extension tube (4-1/2" I.D. x 4-1/2" long)	
10	052972	4 4	CLAMP, hose, adjustable, 4-7/8" to 5-1/2"	
11	-----	1 -	HOOD, engine (Used prior to approx. May, 1952. Used with 4 RODS 055599)(Order 1 HOOD 076559 and 2 RODS 076562)	
	076559	1 -	HOOD, engine (Started approx. May 1952. Used with 2 RODS 055599 and 2 RODS 076562)(Replaces standard HOOD 068128)	
	076864	- 1	HOOD, engine (Used with 2 RODS 055599 and 2 RODS 076562)(Replaces standard HOOD 077922)	
12	068508	1 1	STRAP, hood hold-down, front (Replaces standard STRAP 065731)	
13	068506	1 1	STRAP, hood hold-down, rear (Replaces standard STRAP 048392)	



USAGE: Special Equipment.

ITEM	PART NUMBER	QTY.	DESCRIPTION	KIT NUMBER
1	058057	1	COUPLING, front	
2	058056	1	PIN, straight	
3	058059	1	SHAFT, input	
4	053670	1	SEAL, oil, input shaft	
5	052976	1	GASKET, spacer to transmission case	
6	058058	1	SPACER, gear case	
7	035248	9	CAPSCREW, 5/8"NF x 2-1/4"	
	904209	9	LOCKWASHER, 5/8"	
8	042860	1	BEARING, ball, input shaft	
9	048704	1	RING, snap, input shaft bearing	
10	070114	1	WASHER, locking, bearing retaining nut	
11	070176	1	NUT, bearing retaining	
12	058054	1	GASKET, case to spacer	
13	071229	1	CASE, gear	
	910006	1	PLUG, expansion, 1-1/4"	
	912726	1	PLUG, pipe, sq-hd., 3/4"NPT	
	912770	1	PLUG, pipe, sq-hd., 1-1/2"NPT	
14	058053	5	STUD (5/8"NF x 4-1/8")	
15	058052	1	STUD (5/8"NF x 5-1/8")	
	904209	12	LOCKWASHER, 5/8"	
	911044	12	NUT, 5/8"NF	
16	071218	1	COVER, gear case, side	
17	035236	8	CAPSCREW, 1/2"NC x 1-3/4"	
	904208	8	LOCKWASHER, 1/2"	
	912726	1	PLUG, pipe, sq-hd., 3/4"NPT	
18	071219	1	GASKET, gear case side cover	
19	013059	1	CAPSCREW, retaining, shifting fork shaft (3/8"NC x 2")	
	904206	1	LOCKWASHER, 3/8"	
20	051447	1	BREATHER ASSEMBLY, gear case (Serviced only as a unit)	
21	071217	1	FORK, sleeve shifting	
22	013059	1	CAPSCREW, 3/8"NC x 2"	
	904206	1	LOCKWASHER, 3/8"	
23	034674	2	PACKING, shifting fork shaft	
24	035405	1	RETAINER, shaft packing	
25	071213	1	SHAFT, shifting fork	
26	021711	1	HANDLE, shifting fork shaft	
27	071205	1	CAP, pinion shaft bearing housing	
28	035061	3	CAPSCREW, 1/2"NC x 1-1/4"	
	904208	3	LOCKWASHER, 1/2"	
29	071206	1	GASKET, bearing housing cap	
30	071210	1	WASHER, retaining, pinion shaft rear bearing	
	911057	1	NUT, castle, 1"NF	
	904002	1	PIN, cotter, 1/8" x 2"	
31	042847	1	BEARING, ball, pinion shaft, rear	
32	071220	1	HOUSING, pinion shaft bearings	
33	035236	6	CAPSCREW, 1/2"NC x 1-3/4"	
	904208	6	LOCKWASHER, 1/2"	

(Continued)

PART				KIT NUMBER
ITEM	NUMBER	QTY.	DESCRIPTION	
34	071452	3	SHIM, pinion mesh adjustment (.005" thick. Use as req'd)	
	071451	3	SHIM, pinion mesh adjustment (.010" thick. Use as req'd)	
	071453	4	SHIM, pinion mesh adjustment (.020" thick. Use as req'd)	
35	042890	1	BEARING, ball, pinion shaft, front	
36	041881	1	PINION AND SHAFT	
37	041882	1	SLEEVE, coupling	
38	071212	1	WASHER, bevel gear retaining	
39	011259	2	CAPSCREW (drilled-hd., 1/2"NC x 1")	
40	023633	1	WIRE, locking (1/16" x 12")	
41	041883	1	GEAR, bevel, pulley shaft (30 teeth)	
42	U-129	1	BEARING, ball, pulley shaft, inner	
43	071211	1	KEY, pulley shaft bevel gear	
44	071221	1	SHAFT, pulley	
45	071215	1	KEY, belt pulley	
46	071225	3	SHIM, gear mesh adjustment (.005" thick. Use as req'd)	
	071226	3	SHIM, gear mesh adjustment (.010" thick. Use as req'd)	
	071227	4	SHIM, gear mesh adjustment (.020" thick. Use as req'd)	
47	071228	1	HOUSING, pulley shaft bearings	
48	035236	8	CAPSCREW, 1/2"NC x 1-3/4"	
	904208	8	LOCKWASHER, 1/2"	
49	204751	1	BEARING, ball, pulley shaft, outer	
50	071207	1	GASKET, pulley shaft bearing retainer	
51	034696	1	RETAINER, pulley shaft outer bearing	
52	035061	6	CAPSCREW, 1/2"NC x 1-1/4"	
	904208	6	LOCKWASHER, 1/2"	
53	029563	1	SEAL, oil, pulley shaft	
54	077400	1	PULLEY, belt (20" diam)	
55	071209	1	WASHER, belt pulley retaining	
	911058	1	NUT, castle, 1-1/2"NF	
	904006	1	PIN, cotter, 3/16" x 2-3/4"	

KIT NUMBER

DESCRIPTION

057714	BUSHING KIT, track (For Model HD20H only)
36	079600 BUSHING
1	079602 BUSHING, master
2	079599 SPACER, master bushing
057715	PIN KIT, track (For Model HD20H only)
36	079601 PIN
1	079603 PIN, master
062164	SEAL KIT, torque converter fluid seal
1	----- NOSE-PIECE (Not serviced separately)
1	052174 RING, mating (carbon)
1	052176 SEAL, oil
1	052183 WASHER, sealing, mating ring (rubber)
1	055278 WASHER, element retaining
2	057267 CAPSCREW ASSEMBLY, clip attaching
2	057268 CLIP, nose-piece retaining
1	057269 SPRING, element clamping
1	057270 ELEMENT (rubber)
8	058717 SPRING
065378	LINING KIT, brake band
9	058010 LINING
86	911097 RIVET, tubular, brass, fl-hd., 3/16" x 3/8"
11	915639 RIVET, tubular, brass, fl-hd., 3/16" x 21/32"
067381	TRANSMISSION KIT, low speed reverse changeover
1	052476 GASKET, reverse shaft hub
2	057773 BEARING, ball, reverse shaft gear
2	065512 RING, snap, reverse shaft
1	065513 RING, snap, reverse shaft gear
1	065514 RING, adapting, reverse shaft
1	065516 SHAFT, reverse
1	065517 HUB, reverse shaft
1	065518 GEAR, reverse shaft
1	065519 GEAR, reverse, pinion shaft
3	904208 LOCKWASHER, 1/2"
3	AM-8801 CAPSCREW, reverse shaft hub retaining
067705	KIT, torque converter over-running clutch
1	----- CAM, over-running clutch
1	069770 ROLLER ASSEMBLY, over-running clutch bearing
1	----- CAGE, sprag rollers
14	----- ROLLER, clutch
1	030123 WASHER, locking, input shaft nut
1	052166 GASKET, turbine housing
1	052184 WASHER, retaining, over-running clutch
2	053173 GASKET, piping connection
2	067704 RING, snap, over-running clutch cam
1	067706 SPRING, clutch roller cage
1	076839 PIN, stop, clutch roller cage
069626	GASKET SET, steering clutch and final drive housing
3	035249 GASKET, drain plug
1	052976 GASKET, bevel gear compartment cover
2	052978 GASKET, final drive compartment cover
2	054723 GASKET, steering clutch compartment covers
2	066596 GASKET, brake band adjustment nut cover
069627	GASKET SET, transmission
1	035249 GASKET, drain plug
1	052475 GASKET, top shaft front bearing retainer
2	052476 GASKET, reverse shaft
1	052478 GASKET, shifting lever housing
1	052598 GASKET, case cover
1	058363 GASKET, transmission to steering clutch housing
073764	SEAL KIT, final drive, inner
1	052408 GASKET, inner seal ring
2	052407 RING, inner seal
1	052612 BOOT, inner seal
1	052611 FOLLOWER ASSEMBLY, inner seal

KIT NUMBER

DESCRIPTION

073765	SEAL KIT, final drive, outer	
	1	052545 BOOT, outer seal
	1	052543 FOLLOWER ASSEMBLY
	2	062097 RING, outer seal
	1	062098 GASKET, outer seal ring
074655	PIN KIT, track (For Models HD20F and HD20G only)	
	39	079601 PIN
	1	079603 PIN, master
074656	BUSHING KIT, track (For Models HD20F and HD20G only)	
	39	079600 BUSHING
	1	079602 BUSHING, master
	2	079599 SPACER, master bushing
075951	ADAPTING KIT, radiator (Required when 079606 RADIATOR is installed in place of 066450 RADIATOR)	
	1	----- PLATE, reinforcing
	1	----- PLATE, reinforcing
	2	----- PLATE, reinforcing
	1	----- SHEET, instruction
		} Require welding to radiator shell
076354	SEAL KIT, track idler	
	2	----- RING, seal
	1	051622 GASKET, seal ring
	1	051629 BOOT, seal
076690	SUPPORT KIT, radiator top mounting (For converting tractors prior to #3847)	
	1	----- RING, mounting (Requires welding to radiator shell)
	6	036034 CAPSCREW, 3/8"NF x 1"
	1	076561 RING, support
	2	076684 SHIM, support ring
	2	076685 SHIM, support ring
	1	076686 STRIP, cushion
	6	904206 LOCKWASHER, 3/8"
077329	REPAIR KIT, truck wheel rebore	
	2	042870 CUP, bearing (oversize)
	2	076919 RETAINER, bearing (oversize)
	4	077285 SHIM, bearing adjustment (.032" thick)
	4	077286 SHIM, bearing adjustment (.010" thick)
	4	077287 SHIM, bearing adjustment (.007" thick)
	1	----- SHEET, instruction
078274	CHANGEOVER KIT, air cleaner (For Model HD20F and HD20H tractors prior to serial No. 4544)	
	2	035018 CAPSCREW, 1/2"NF x 1-1/2"
	2	035336 CAPSCREW, 3/8"NF x 1-3/4"
	2	035733 CAPSCREW, 1/2"NC x 1-3/8"
	3	035892 CAPSCREW, 1/2"NF x 2-1/2"
	1	043030 CLIP, fuel pressure gauge tube
	6	043886 CAPSCREW, 7/16"NC x 1"
	4	068231 HOSE, air tubes
	2	074790 WASHER, mounting bracket capscREW
	1	077396 TUBE, air
	1	077709 BRACKET, mounting band
	1	077718 BRACKET, air cleaner mounting
	1	077734 ROD, bracing
	4	077752 BAND, mounting
	1	077753 TUBE, oil filter
	1	077759 TUBE, air
	2	077900 CLEANER ASSEMBLY, air
	1	077911 ROD, bracing
	2	077912 BRACKET, mounting band
	1	077913 ROD, bracing
	2	077916 BRACKET, bracing rods
	1	077917 TUBE, oil filter
	2	077919 PRE-CLEANER ASSY., air
	1	078970 BRACKET, throttle supporting
	2	079201 TRANSFER, instruction
	2	904206 LOCKWASHER, 3/8"
	4	904208 LOCKWASHER, 1/2"

(Continued)

KIT NUMBER	DESCRIPTION	
078274	CHANGEOVER KIT, air cleaner (Continued)	
	10	904369 LOCKWASHER, 3/4"
	2	911043 NUT, 1/2" NF
	6	911045 NUT, 3/4" NF
	4	915367 RING ASSEMBLY, Sealastic, 3/8" tube
	2	5151906 HOSE, water by-pass tube
	1	5186137 TUBE, water pump vent
	1	5186138 TUBE, water by-pass
	1	----- INSTRUCTION SHEET
082149	COVER KIT, clutch	
	1	082141 PLATE ASSEMBLY
	4	082148 SPRING, plate retracting
083211	SEAL KIT, heavy-duty truck wheel	
	2	----- RING, inner
	2	----- RING, outer
	2	051629 BOOT, seal spring
	2	076295 RING, packing
	2	905357 BALL, steel, 3/16" diam.
083213	SEAL KIT, track support roller	
	2	050251 GASKET, seal ring
	4	048658 RING, seal
	2	048665 BOOT, seal
	2	048666 SPRING ASSEMBLY, seal
083537	SEAL KIT, truck wheel	
	4	----- RING, seal
	2	051112 BOOT, seal
	2	051125 GASKET, seal ring
083880	TOOL KIT	
	1	012387 HAMMER
	1	012389 PLIERS
	1	036268 SCREWDRIVER
	1	040170 WRENCH, track release adjustment
	1	040272 WRENCH, lubricant hole plugs
	1	043769 WRENCH, drain and filling plugs
	1	044825 FULCRUM, valve lifting and injector removing tool
	1	050608 WRENCH, open end, double head, 15°, 1/2" and 9/16"
	1	050609 WRENCH, open end, double head, 15°, 5/8" and 3/4"
	1	050610 WRENCH, open end, double head, 15°, 3/4" and 7/8"
	1	052371 BAR, pinch, 16" long
	1	053423 WRENCH, open end, double head, 15°, 9/16" and 5/8"
	1	053426 HANDLE, socket, sliding T, 3/4" square drive
	1	058937 NOZZLE ASSEMBLY, low-pressure lubrication
	1	073735 GUN, grease
	1	074332 WRENCH, adjusting, valve lash
	1	074549 GAUGE, feeler, rocker clearance
	1	074595 GAUGE, injector timing
	1	074762 TOOL, valve lifting and injector removing
	1	902881 KEY, hexagonal, short, 3/8"
	1	914799 SOCKET, 3/4" square drive, 12 point, 1-5/16" hex
5183332	GASKET SET, engine overhaul	
	2	3203430 GASKET, oil pipe
	1	5150057 GASKET, flywheel housing star cover
	1	5150059 GASKET, pump adapter to engine
	1	5150191 PACKING, water by-pass tube elbow
	3	5150193 GASKET, blower and fuel pump cover
	2	5150234 GASKET, blower end plate cover
	1	5150237 GASKET, blower
	2	5150246 GASKET, blower covers
	1	5150286 GASKET, blower drive support
	1	5150988 SCREEN, blower
	1	5153256 GASKET, oil pan
	1	5153788 GASKET, oil pan handhole cover
	1	5163760 GASKET, water pump adaptor cover
	2	5174555 GASKET, air box cover
	3	5175403 GASKET, oil and fuel tubes
	1	5175568 GASKET, regulator pipe to block
	1	5175569 GASKET, regulator to block

(Continued)

KIT NUMBER

DESCRIPTION

5183332

GASKET SET, engine overhaul (Continued)

5	5175604	GASKET, oil pipe
1	5175660	GASKET, upper pan to block
1	5175693	GASKET, governor side cover
1	5175710	GASKET, governor variable speed control housing
2	5175836	GASKET, drive shaft support
2	5175844	GASKET, oil cooler elbow to housing
1	5175845	GASKET, oil cooler core
4	5175882	SPACER, gasket compensating
1	5175948	GASKET, oil cooler elbow to block
1	5175953	GASKET, oil cooler housing to block
2	5175989	GASKET, thermostat housing
6	5175991	GASKET, water outlet manifold
1	5176263	GASKET, water pump adaptor
1	5176264	GASKET, pump to drive adaptor
1	5176286	GASKET, water pump body elbow
1	5176334	GASKET, water pump drive gear cover plate
1	5176335	GASKET, fan mounting bracket
1	5176413	GASKET, accessory shaft bearing cover
1	5176557	SEAL, governor shut-off lever shaft
1	5176676	GASKET, water inlet elbow
1	5176680	GASKET, governor to cylinder head
2	5176731	GASKET, exhaust manifold
5	5176774	GASKET, cylinder block plug
2	5176775	GASKET, cylinder block plug
2	5177522	GASKET, breather
1	5178870	GASKET, water by-pass adaptor
4	5178997	GASKET, cylinder block plug
1	5179282	GASKET, breather to body
6	5179662	GASKET, cylinder
1	5179684	GASKET, flywheel housing
2	5179717	GASKET, cylinder block end
1	5179726	GASKET, flywheel housing cover
1	5182469	GASKET, cylinder block cover plate
2	5182975	RING, seal, cylinder head water hole
12	5182976	RING, seal, cylinder head water hole
12	5182977	RING, seal, cylinder head water hole
1	5183746	GASKET, governor top cover
1	5183998	GASKET, rocker cover
2	5185416	GASKET, cylinder block handhole cover
1	5185809	RING, cylinder head oil seal
1	5187312	GASKET, oil cooler housing cover

5193220

ELEMENT KIT, injector fuel filter

2	5226414	CAP, shipping
1	5228003	RING, nut sealing
2	5228013	ELEMENT, fuel filtering
2	5228024	GASKET, fuel filtering element cap

5193452

RING KIT, piston

4	5175586	RING, compression
2	5175588	RING ASSEMBLY, oil control

5193466

GASKET SET, cylinder head

3	5175403	GASKET, oil and fuel tubes
2	5175989	GASKET, thermostat housing
6	5175991	GASKET, water outlet manifold
1	5176680	GASKET, governor connector
2	5176731	GASKET, exhaust manifold
1	5178870	GASKET, water by-pass adaptor
6	5179662	GASKET, cylinder
2	5182975	RING, seal, cylinder head water hole
12	5182976	RING, seal, cylinder head water hole
12	5182977	RING, seal, cylinder head water hole
1	5185809	RING, cylinder head oil seal

5193503

SEAL KIT, water pump (Will fit all engines)

1	074347	RING, seal retaining
1	2001429	GUIDE, seal spring
1	2007128	RING, seal clamping
1	5185567	SEAL, rubber
1	5185747	WASHER, seal (steel)
1	5185750	SPRING, seal
1	5186197	RING, sealing (rubber)
1	5186198	WASHER, seal (carbon)

KIT NUMBER

DESCRIPTION

5194339

CYLINDER KIT

1	5175585	PIN, piston
4	5175586	RING, compression
2	5175588	RING ASSEMBLY, oil control
1	5188562	LINER, cylinder
1	5193196	PISTON ASSEMBLY

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