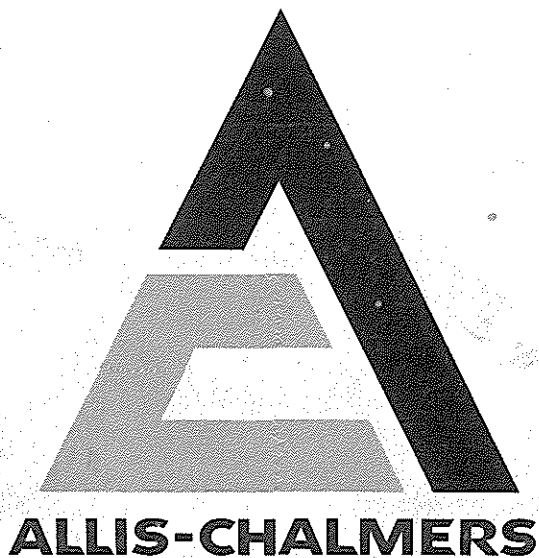


~~4000~~
1500 APR 8 - 1969

Parts
Catalog
for
HD-21
SERIES B
CRAWLER
TRACTOR



Milwaukee, Wisconsin, U.S.A.

Litho in U.S.A.

FORM 0664645-9

AVOID ACCIDENTS

MOST ACCIDENTS, WHETHER THEY OCCUR IN INDUSTRY, ON THE FARM, AT HOME OR ON THE HIGHWAY, ARE CAUSED BY THE FAILURE OF SOME INDIVIDUAL TO FOLLOW SIMPLE AND FUNDAMENTAL SAFETY RULES OR PRECAUTIONS. FOR THIS REASON MOST ACCIDENTS CAN BE PREVENTED BY RECOGNIZING THE REAL CAUSE AND DOING SOMETHING ABOUT IT BEFORE THE ACCIDENT OCCURS.

REGARDLESS OF THE CARE USED IN THE DESIGN AND CONSTRUCTION OF ANY TYPE OF EQUIPMENT THERE ARE MANY CONDITIONS THAT CANNOT BE COMPLETELY SAFEGUARDED AGAINST WITHOUT INTERFERING WITH REASONABLE ACCESSIBILITY AND EFFICIENT OPERATION.

A careful operator is the best insurance against an accident. The complete observance of one simple rule would prevent many thousand serious injuries each year. That rule is:

Never attempt to clean, oil or adjust a machine while it is in motion.

NATIONAL SAFETY COUNCIL

WARNING

ON MACHINES HAVING HYDRAULICALLY, MECHANICALLY, AND/OR CABLE CONTROLLED EQUIPMENT (SUCH AS SHOVELS, LOADERS, DOZERS, SCRAPERS, etc.) BE CERTAIN THE EQUIPMENT IS LOWERED TO THE GROUND BEFORE SERVICING, ADJUSTING AND/OR REPAIRING. IF IT IS NECESSARY TO HAVE THE HYDRAULICALLY, MECHANICALLY, AND/OR CABLE CONTROLLED EQUIPMENT PARTIALLY OR FULLY RAISED TO GAIN ACCESS TO CERTAIN ITEMS, BE SURE THE EQUIPMENT IS SUITABLY SUPPORTED BY MEANS OTHER THAN THE HYDRAULIC LIFT CYLINDERS, CABLE, AND/OR MECHANICAL DEVICES USED FOR CONTROLLING THE EQUIPMENT.

MODEL IDENTIFICATION

The symbol listed below is stamped in front of the model serial number on each unit.

MODEL SYMBOL	ENGINE MODEL	DESCRIPTION
HD-21P	21000-Mark II	Diesel engine driven crawler tractor

RECORD YOUR SERIAL NUMBERS BELOW

TRACTOR SERIAL NO. _____

ENGINE SERIAL NO. _____

SERIAL NUMBER LOCATIONS

TRACTOR SERIAL NO. On steering clutch housing at the upper right hand corner of the rear face and vertically on right hand side of the rear edge. Also on small plate attached to top of steering lever housing.

ENGINE SERIAL NO. On plate attached to the left hand side of the cylinder block near the rear end. Also on small plate attached to top of steering lever housing.

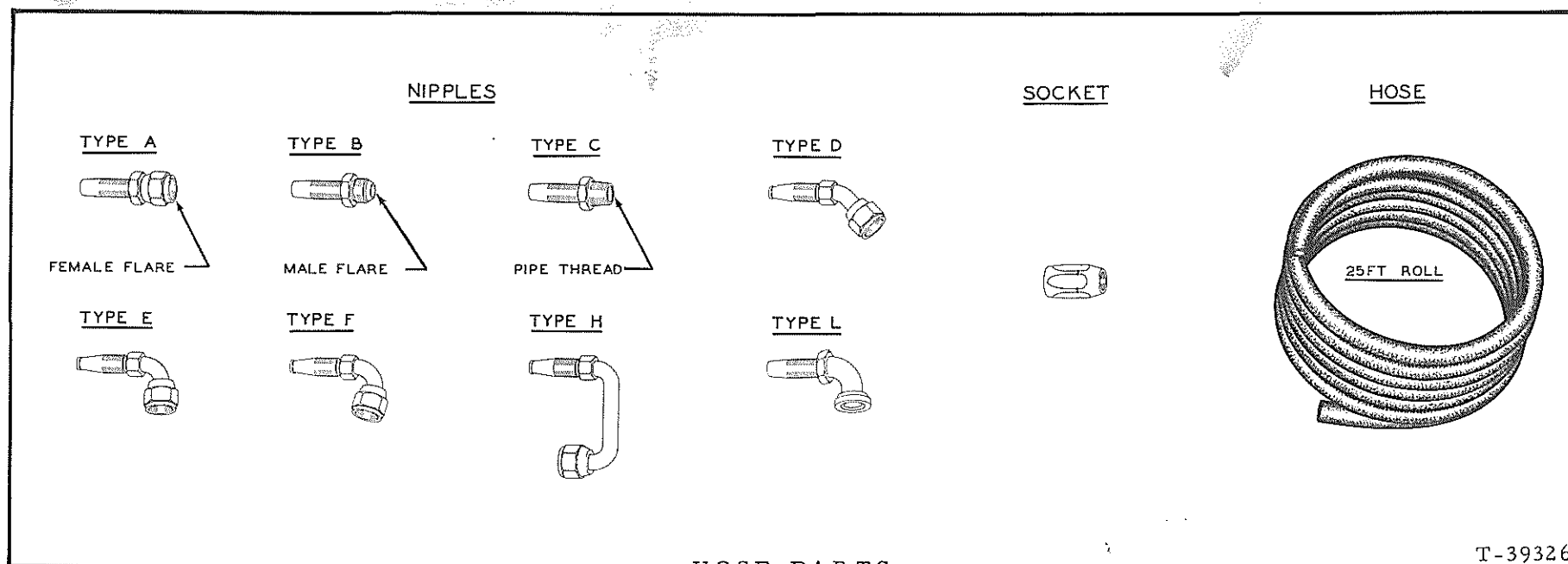
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HOSE PARTS

T-39326

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

HOSE ASSEMBLY NO. (See NOTE)	BULK HOSE (25' roll)	HOSE LENGTH (inches)	NIPPLE (#1 end)			NIPPLE (#2 end)			SOCKET (both ends)	NIPPLE FLANGE		CRIMPED- TYPE HOSE (See NOTE) Part No.
			Including SOCKET	NIPPLE only	Type	Including SOCKET	NIPPLE only	Type		Part No.	X Dim	
4386238	919821	28-1/4		921225	C		920513	E	919820			
4386770	920736	18		922406	C		920514	E	920509			
4386771	920736	22-1/8		920512	E		922207	H	920509			
4386772	919821	23-1/4		920513	F		922208	H	919820			
4386773	922045	11-3/4		922044	E		922044	E	922042			
4386774	919821	14-7/8		922221	F		922372	F	919820			
	919156	9	920865	919081	E		919175	F	919076			644603
	919156	9	920865	919081	E		919175	F	919076			644604
	920221	121	920852	920344	A	920867	919277	E	919281			644607

[illegible]

PACKAGED PARTS

PACKAGE NO.

DESCRIPTION

4392042

GASKET KIT, cylinder head

8	917806	SLEEVE, fuel line
8	4254873	WASHER, rocker cover capscrew
1	4361551	GASKET, air inlet elbow (Discard)
1	4362458	GASKET, water manifold cover
6	4376483	GASKET, water manifold
1	4376520	GASKET, thermostat cover
1	4376527	GASKET, water manifold connecting
6	4378031	GASKET, injection nozzle
1	4386137	GASKET, water by-pass tube
12	4387697	GASKET, intake and exhaust manifolds
2	4390170	GASKET ASSY., cylinder head
1	4391707	GASKET, air inlet elbow
2	4392037	GASKET, cylinder head lower cover
2	4392038	GASKET, rocker cover

4391603

GASKET KIT, intermediate, engine cylinder block (Does not include cylinder head or oil pan gaskets)

2	667252	GASKET, oil drain plug (Only one (1) required)
8	923379	O-RING, water tubes (Discard. Not used)
8	923645	O-RING, injection line connectors
2	923651	O-RING, bonnet tube
2	923810	O-RING, flywheel housing dowel
1	923935	O-RING, water pump body
12	925612	O-RING, water inlet manifold
2	4113897	GASKET, regulating valve nut (Discard. Not used)
4	4119937	GASKET, plugging capscrews
5	4255511	O-RING, heat exchanger and oil filter (Discard. Not used)
2	4255513	O-RING, (Discard. Not used)
12	4255631	O-RING, oil cooler and oil filter
4	4255665	O-RING, injection pump bracket
2	4255781	O-RING, heat exchanger elbows
1	4255898	RING, sealing, flywheel housing
1	4255904	RING, sealing, flywheel housing
1	4255912	O-RING, flywheel to crankshaft
1	4310257	GASKET, oil filler pipe
1	4336897	RING, sealing, flywheel housing
1	4361740	GASKET, water pump idler support
1	4367090	GASKET, tachometer hole nut
1	4371027	GASKET, gear housing hole cover
2	4371160	GASKET, heat exchanger (Only one (1) required)
1	4371289	GASKET, oil pan cover
3	4371345	GASKET, oil lines (Discard. Not used)
1	4371742	GASKET (Discard. Not used)
1	4376398	GASKET, water pump
1	4376603	GASKET, accessory pump
1	4376609	GASKET, timing gear housing cover
7	4376749	WASHER, push rod cover capscrew
2	4377120	GASKET, push rod cover
2	4378112	GASKET, lower water by-pass tube
1	4379070	SEAL, oil pan
1	4386223	GASKET, heat exchanger bonnet (Discard. Not used)
1	4386495	GASKET, water and oil manifold, lower
1	4386856	GASKET, heat exchanger (Discard. Not used)
1	4389291	GASKET, water and oil manifold, upper
1	4389676	GASKET, heat exchanger bonnet

(Continued)

PACKAGED PARTS

PACKAGE NO.

DESCRIPTION

4391603

GASKET KIT, intermediate, engine cylinder block (Does not include cylinder head or oil pan gaskets)(Continued)

- 1 4389678 GASKET, heat exchanger adaptor
- 3 4389782 GASKET, oil lines
- 1 4390432 GASKET, timing hole cover
- 1 4660423 GASKET, oil pump discharge tube
- 1 4660492 GASKET, timing gear housing

GASKET KIT, turbocharger mounting (See TURBOCHARGER)

4391490

PISTON AND SLEEVE KIT

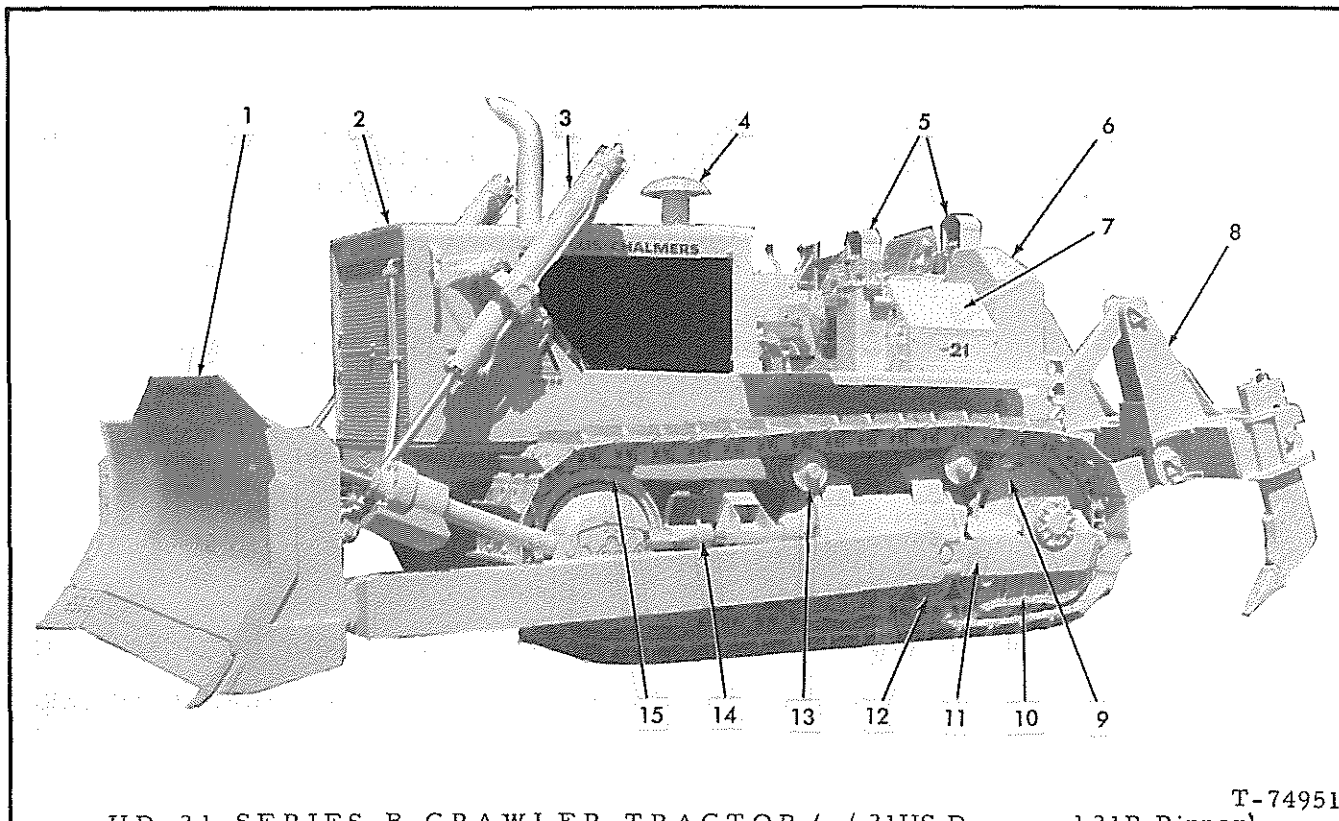
- 2 4253749 RETAINER, piston pin
- 1 4379178 O-RING, cylinder sleeve (black)
- 2 4385485 O-RING, cylinder sleeve (red)
- 1 4390175 PIN, piston
- 1 4391473 SLEEVE, cylinder
- 1 4391487 PISTON
- 1 4391489 RING SET, piston

RING SET (See PISTON AND CONNECTING ROD)

SEAL KIT (See FINAL DRIVE section, TRACK CARRIER ROLLER, TRACK IDLER and TRACK ROLLERS)

SEAL KIT, cylinder assembly (See DECELERATING BRAKE)

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



T-74951

HD-21 SERIES B CRAWLER TRACTOR (w/ 21HS Dozer and 21R Ripper)

- | | |
|-------------------------------|--------------------------|
| 1. See 21 Dozer Parts Catalog | 9. Sprocket |
| 2. Radiator Guard | 10. Track Roller Guards |
| 3. See 21 Dozer Parts Catalog | 11. Track Frame |
| 4. Air Cleaner | 12. Track Roller |
| 5. Rear Flood Lights | 13. Track Carrier Roller |
| 6. Fuel Tank | 14. Track Adjusting Yoke |
| 7. Battery Box | 15. Track Idler |

PACKAGED PARTS

PACKAGE NO.

DESCRIPTION

4391603

GASKET KIT, intermediate, engine cylinder block (Does not include cylinder head or oil pan gaskets)(Continued)

- 1 4389678 GASKET, heat exchanger adaptor
- 3 4389782 GASKET, oil lines
- 1 4390432 GASKET, timing hole cover
- 1 4660423 GASKET, oil pump discharge tube
- 1 4660492 GASKET, timing gear housing

GASKET KIT, turbocharger mounting (See TURBOCHARGER)

4391490

PISTON AND SLEEVE KIT

- 2 4253749 RETAINER, piston pin
- 1 4379178 O-RING, cylinder sleeve (black)
- 2 4385485 O-RING, cylinder sleeve (red)
- 1 4390175 PIN, piston
- 1 4391473 SLEEVE, cylinder
- 1 4391487 PISTON
- 1 4391489 RING SET, piston

RING SET (See PISTON AND CONNECTING ROD)

SEAL KIT (See FINAL DRIVE section, TRACK CARRIER ROLLER, TRACK IDLER and TRACK ROLLERS)

SEAL KIT, cylinder assembly (See DECELERATING BRAKE)

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

PACKAGED PARTS

PACKAGE
NUMBER

DESCRIPTION

0684272-8

FINAL DRIVE KIT (For up-dating Top and Intermediate Pinion Shaft
bearings on tractors prior to Serial No. 10S18516)

4	0023633-1	LOCKWIRE
2	0052066-8	PIN
16	0052444-7	LOCK
8	0067520-7	SHIM
8	0075679-1	KEY
6	0080547-3	PIN
4	0082303-9	RING
2	0082309-6	GASKET
2	0082312-0	BOOT
2	0082317-9	FOLLOWER ASSY.
2	0082320-3	GASKET
4	0082322-9	RING
2	0082323-7	BOOT
4	0082356-7	SHIM
4	0082357-5	SHIM
4	0082358-3	SHIM
12	0084050-4	SHIM
12	0084432-4	PIN
2	0621486-0	GASKET
2	0623136-9	GASKET
2	0623346-4	SEAL
2	0623350-6	SEAL
2	0667168-9	GASKET
7	0667252-1	GASKET
2	0669770-0	FOLLOWER ASSY.
2	0681245-7	CUP AND CONE ASSY. (Consists of 1 CUP 0042877-1 and 1 CONE 0051997-5)
2	0681254-9	CUP AND CONE ASSY. (Consists of 1 CUP 0082308-8 and 1 CONE 0082307-0)
4	0681543-5	CAPSCREW
2	0681558-3	LOCK
4	0681559-1	WASHER
2	0683970-8	BEARING
2	0684126-6	PINION
2	0684128-2	RETAINER
2	0684130-8	RETAINER
2	0684131-6	BEARING
2	0684132-4	BEARING
2	0684136-5	PINION
2	0684137-3	BEARING
2	0684138-1	BEARING
12	0684139-9	SHIM
2	0684140-7	RETAINER
2	0684176-1	RING
2	0684568-9	LOCK
2	0904016-3	PIN, cotter
2	0905357-0	BALL
4	0905358-8	BALL
2	0905360-4	BALL
2	0923575-5	O-RING
2	0923824-7	O-RING
4	0927597-5	CAPSCREW
4	0928506-5	CAPSCREW
1	-----	SKETCH S-5787 (For required re-work)
1	-----	SUPPLEMENT NO. 1 to Service Manual 0677525-8

SUMMARY

Make the following changes: (All changes are underlined)

PAGE	ITEM	PART NO.	QTY.	DESCRIPTION
13	13	4660440	2	BEARING (<u>Engines prior to #21-11500</u>)
	13 Add:	4393373-8	2	BEARING, camshaft, intermediate (Engines #21-11500 and up)
15	7	4027416	1	SEAL (Change part No. to <u>4028922-5</u>)
20	1	4391308	1	SCREW (Change part No. to <u>4393443-9</u>); also add (<u>If for first replacement on engines prior to #21-11367 also order item 2</u>)
	2	4391649	1	WASHER (Change part No. to <u>4393436-3</u>)
29	1	4392182	1	CAMSHAFT (<u>Engines prior to #21-11500</u>)
	1 Add:	4393399-3	1	CAMSHAFT (Engines #21-11500 and up)
53	Add:	USAGE: Engines prior to serial No. 21-11088		
55	Add:	USAGE: Engines prior to serial No. 21-11088		
	1	4392058	6	HOLDER ASSY. (<u>Engines prior to #21-10855; also change part No. to 4392121-2</u>)
	1 Add:	4392304-4	6	HOLDER ASSY., nozzle (long-sac type)(Engines #21-10855 and up)(See page 57 for parts)
57	In TITLE:	Change part No. 4392058 to <u>4392121-2</u> ; also add to TITLE: <u>Assy.4392304-4</u>		
	8	4390006	1	NOZZLE ASSY. (<u>For Holder Assy. 4392121-2</u>)
	8 Add:	4392305-1	1	NOZZLE ASSY. (long-sac type)(For Holder Assy. 4392304-4)(Includes item 10)
69	3	629755	1	CLAMP (Change name to <u>CLAMP ASSY.</u> and add: (<u>Includes hardware which is not serviced separately</u>)
		082013	1	CAPSCREW
		044973	2	WASHER
		904206	1	LOCKWASHER
		911026	1	NUT
				<u>Delete entirely</u>
84	15	035733	4	CAPSCREW (Change part No. to <u>0037573-3</u>)
89	22	667360	2	BELT (<u>Delete this listing</u>)
	22 Add:	0675096-2	1	BELT SET (Consists of 2 matched belts)
90	2	4376527	1	GASKET (Change part No. to <u>4392279-8</u>)
101	2	040013	19	CAPSCREW (<u>3 less used on tractors unit #17001 and up</u>)
	2 Add:	0920648-3	3	CAPSCREW, 7/16"NC x 2" (Also supports air cleaner mounting bracket)
111	Add:	USAGE: Tractors prior to serial No. 16550; also tractors serial No. 10S16551 thru 10S17518 and 10S17579 thru 10S17628		
120	9	629348	1	BEARING (Change part No. to <u>0647996-8</u>)

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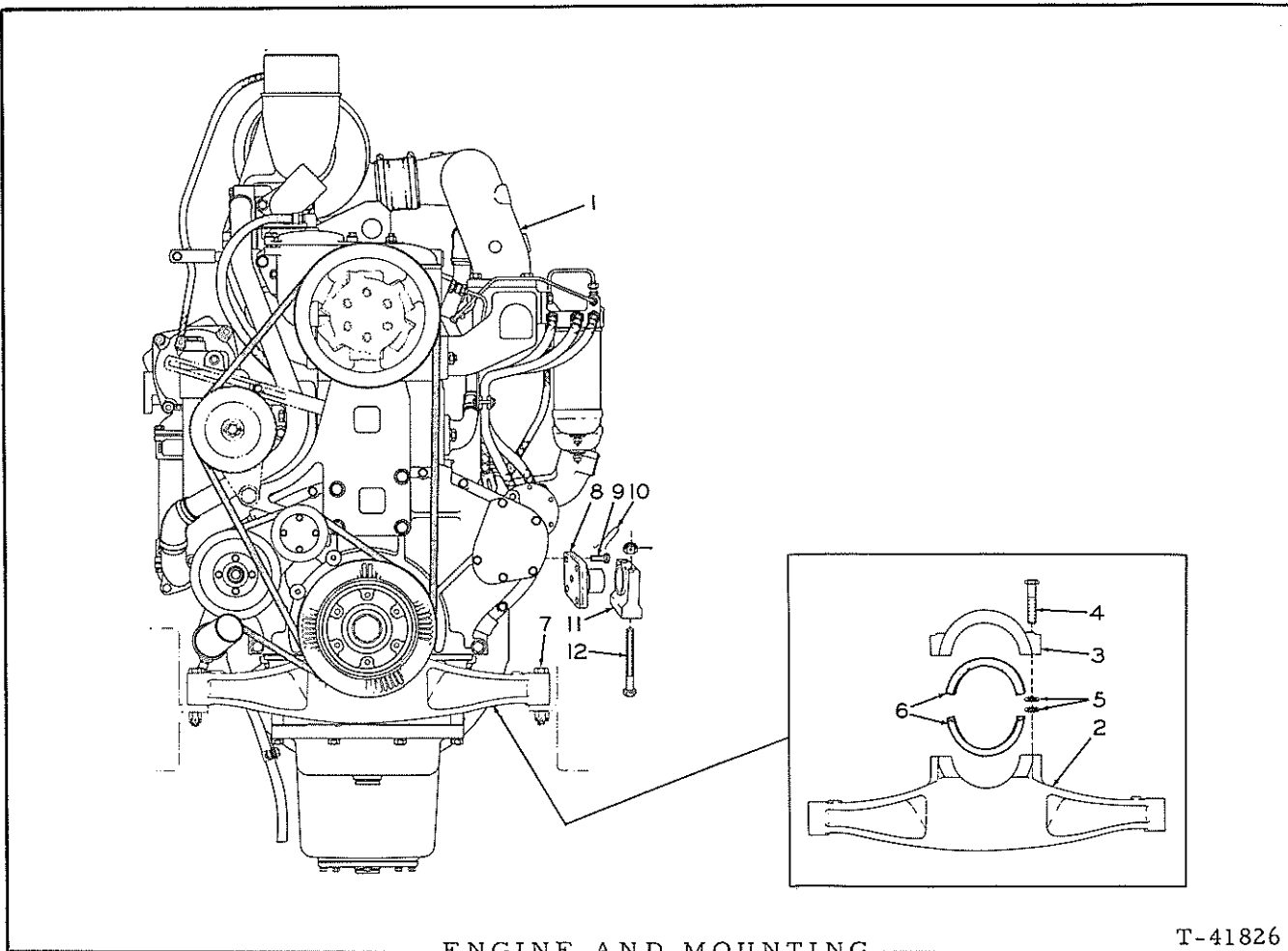
SUMMARY (Continued)

PAGE	ITEM	PART NO.	QTY.	DESCRIPTION
123	9	629348	1	BEARING (Change part No. to <u>0647996-8</u>)
123	12	918850	2	PLUG (Tractors prior to unit #17737)
	12 Add:	0919140-4	2	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male
	12 Add:	0921467-7	2	CAP, flare type, 1/4" tube
				} Tractors Unit #17737 and up
129	1	656977	1	SHAFT ASSY. (Change part No. to <u>0679653-6</u>)
130	31	642061	16	PLATE (Change part No. to <u>0679935-7</u>)
141	6	923589	1	O-RING (Change part No. to <u>0923831-2</u>)
170	1	651432	1	VALVE ASSY. (Tractors prior to unit #17610)
	1 Add:	0677645-4	1	VALVE ASSY., control (Cessna. See page 170A for parts)(Tractors unit #17610 and up)
	8	628458	2	UNION (Change part No. to <u>0669565-4</u>)
173 Add:	6A	0662487-8	1	BLOCK, lever stop
		0916271-0	2	CAPSCREW, 3/8"NC x 3/4"
		0904206-0	2	LOCKWASHER, 3/8"
		0911377-0	2	WASHER, plain
				} Tractors unit #17501 and up
185	1	660425	1	FRAME ASSY. (Tractors prior to unit #17001)
	1 Add:	0666417-1	1	FRAME ASSY. (Includes items 3 thru 6)(Tractors unit #17001 and up)
	16	916221	6	CAPSCREW (Change part No. to <u>0921403-2</u> and length to <u>2"</u>)
		904209	6	LOCKWASHER (Change part No. to <u>0912942-0</u>)
	18	916221	6	CAPSCREW (Change part No. to <u>0921403-2</u> and length to <u>2"</u>)
		904209	6	LOCKWASHER (Change part No. to <u>0912942-0</u>)
	21	919190	4	CAPSCREW (Change part No. to <u>0927353-3</u> and length to <u>1-1/4"</u>)
		904208	4	LOCKWASHER (Change part No. to <u>0912441-3</u>)
197	17	012762	16	CAPSCREW (Tractors prior to unit #17604)
	17 Add:	0927186-7	16	CAPSCREW, attaching (7/8"NF x 3-1/2")(Tractors unit #17604 and up)
205	8 Add:	0928197-3	2	RING, retaining
216	14	644534	1	TRANSFER (Tractors prior to unit #17197)
	14 Add:	0658630-9	1	TRANSFER, instruction, transmission oil filter (1-3/4" x 2-1/4")(Applied to filter)(Tractors unit #17197 and up)

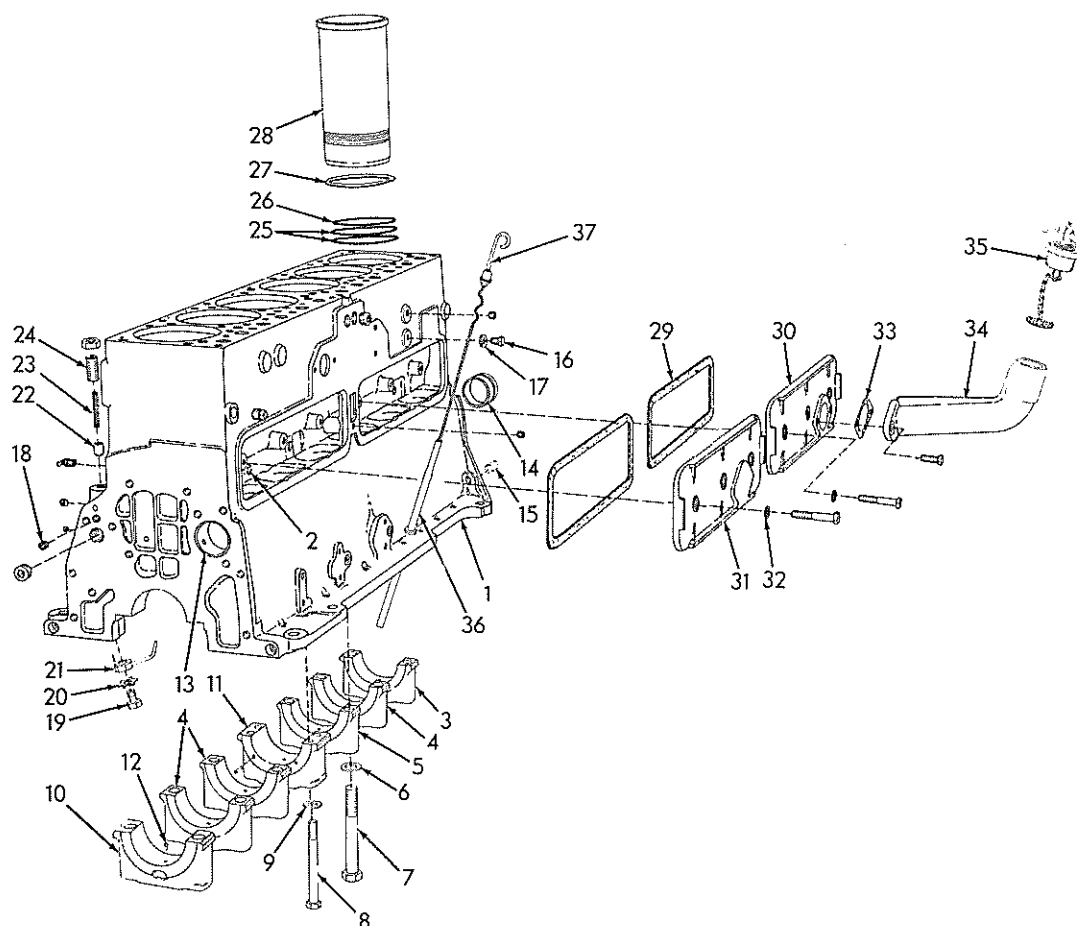
(Continued)

SUMMARY (Continued)

PAGE	ITEM	PART NO.	QTY.	DESCRIPTION
217	18	665147	1	TRANSFER (Tractors prior to #16231)
	18 Add:	0669933-4	1	TRANSFER, instruction, coolant filter (2-3/8" x 3-1/2") (Applied to filters)(Tractors #16231 and up)
225	8	660189	1	CABLE (Change part No. to <u>0668990-5</u>)
227 Add:	22	0928052-0	1	PADLOCK
232	4	644006	1	CLIP (Change part No. to <u>0620035-6</u>)
234	1	665909	1	GAUGE (Change part No. to <u>0676409-6</u>)
	2	666185	1	GAUGE (Change part No. to <u>0676408-8</u>)
234 Add:	2A	0088534-3	2	RESTRICTOR, gauge lines
	3	919174	1	CONNECTOR (<u>Delete this item</u>)
	4	919174	1	CONNECTOR (<u>Delete this item</u>)



ITEM	PART NO.	QTY.	DESCRIPTION
1	4390467-1	1	ENGINE ASSY. (Includes oil filters, oil coolers, fuel filter and turbocharger but does not include air cleaner, fan, alternator or starter)
2	0655452-1	1	HANGER engine supporting, front end (Includes item 3)
3	-----	1	CAP, engine hanger (Not serviced separately)
4	0669299-0	2	SCREW, Nylok, flanged, hex-hd., 1/2"NC x 3"
5	0916009-4	14	WASHER, shimming (1/32" thick. Use as required)
6	4336491-8	2	LINER, engine supporting hanger
7	0670451-4	2	CAPSCREW, engine hanger (drilled-end, 5/8"NF x 4-1/4")
	0926193-4	2	WASHER, plain, 5/8"
	0913280-4	2	NUT, high, slotted, 5/8"NF
	0900806-7	2	PIN, cotter, 1/8" x 1"
8	0631774-7	2	TRUNNION, rear mounting
9	0665891-8	8	CAPSCREW, drilled-hd., 5/8"NC x 1-1/4"
10	0023633-1	4	WIRE, locking, 1/16" x 12"
11	0631773-9	2	BRACKET, engine supporting, rear
12	0630773-0	4	CAPSCREW, drilled-end, 3/4"NF x 7"
	0910879-6	4	NUT, high, slotted, 3/4"NF
	0900808-7	4	PIN, cotter, 1/8" x 1-1/2"



CYLINDER BLOCK

T-37202

ITEM	PART NO.	QTY.	DESCRIPTION
1	4390809-4	1	BLOCK ASSY., cylinder (Includes items 2 thru 18 also hardware indented below)(Engines prior to #21-11500)
	4393388-6	1	BLOCK ASSY., cylinder (Includes items 2 thru 18 and hardware indented below)(Engines #21-11500 and up)
	0919840-9	3	PLUG, pipe, hex-hd., 1/4"NPT
	0918887-1	1	PLUG, pipe, hex-socket, 3/8"NPT
	0917673-6	3	PLUG, pipe, hex-socket, 1/8"NPT
	0918850-9	3	PLUG, pipe, hex-socket, 1/4"NPT
	0918851-7	3	PLUG, pipe, hex-socket, 3/4"NPT
	0912415-7	1	COCK, drain, 1/4"NPT
2	-----	4	DOWEL, valve lifter bracket (See VALVE OPERATING MECHANISM)
3	4389235-5	1	*CAP, main bearing, rear
4	4389232-2	3	*CAP, main bearing, intermediate
5	4389234-8	1	*CAP, main bearing, intermediate (No. 5)
6	4389911-1	12	WASHER, plain, main bearing capscrew

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

(Continued)

CYLINDER BLOCK (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
7	4389924	12	CAPSCREW, main bearing cap (7/8" diam.)
8	4389923	4	CAPSCREW, center main bearing cap (5/8" diam.)
9	4391160	4	WASHER, center main bearing cap screw
10	4389231	1	*CAP, main bearing, front
11	{ 4389233	1	*CAP, main bearing, center
	{ -----	4	PIN, dowel, thrust flange (See CRANKSHAFT)
12	4389292	7	PIN, dowel, main bearing
13	{ 4660389	1	BEARING, camshaft, front
	{ 4660440	2	BEARING, camshaft, intermediate
14	4660389	1	BEARING, camshaft, rear
15	-----	2	PIN, dowel, flywheel housing (See FLYWHEEL HOUSING)
16	919229	3	CAPSCREW, hole plugging (1/2"NC x 1/2")
17	4119937	3	□GASKET, plugging cap screw
18	4389943	1	RESTRICTOR, oil by-pass
19	4386262	6	SCREW, piston cooling jet
20	4705801	6	LOCKWASHER, piston cooling jet
21	{ 4390766	3	JET ASSEMBLY, piston cooling, right hand (Includes dowel)
	{ 4390767	3	JET ASSEMBLY, piston cooling, left hand (Includes dowel)
22	4500230	1	PISTON, oil pressure regulating valve
23	4660358	1	SPRING, oil pressure regulating valve
24	4389058	1	SCREW, oil pressure regulating valve
	910847	1	NUT, jam, 3/4"NF
25	4385485	12	□O-RING, cylinder sleeve, lower groove (red)
26	4379178	6	□O-RING, cylinder sleeve, upper groove (black)
27	{ 4368204	-	SHIM, cylinder sleeve (.005" thick)
	{ 4368205	-	SHIM, cylinder sleeve (.010" thick)
	{ 4368206	-	SHIM, cylinder sleeve (.015" thick)
	{ 4369002	-	SHIM, cylinder sleeve (.020" thick)
28	4391473	6	□SLEEVE, cylinder
29	4377120	2	□GASKET, push rod cover

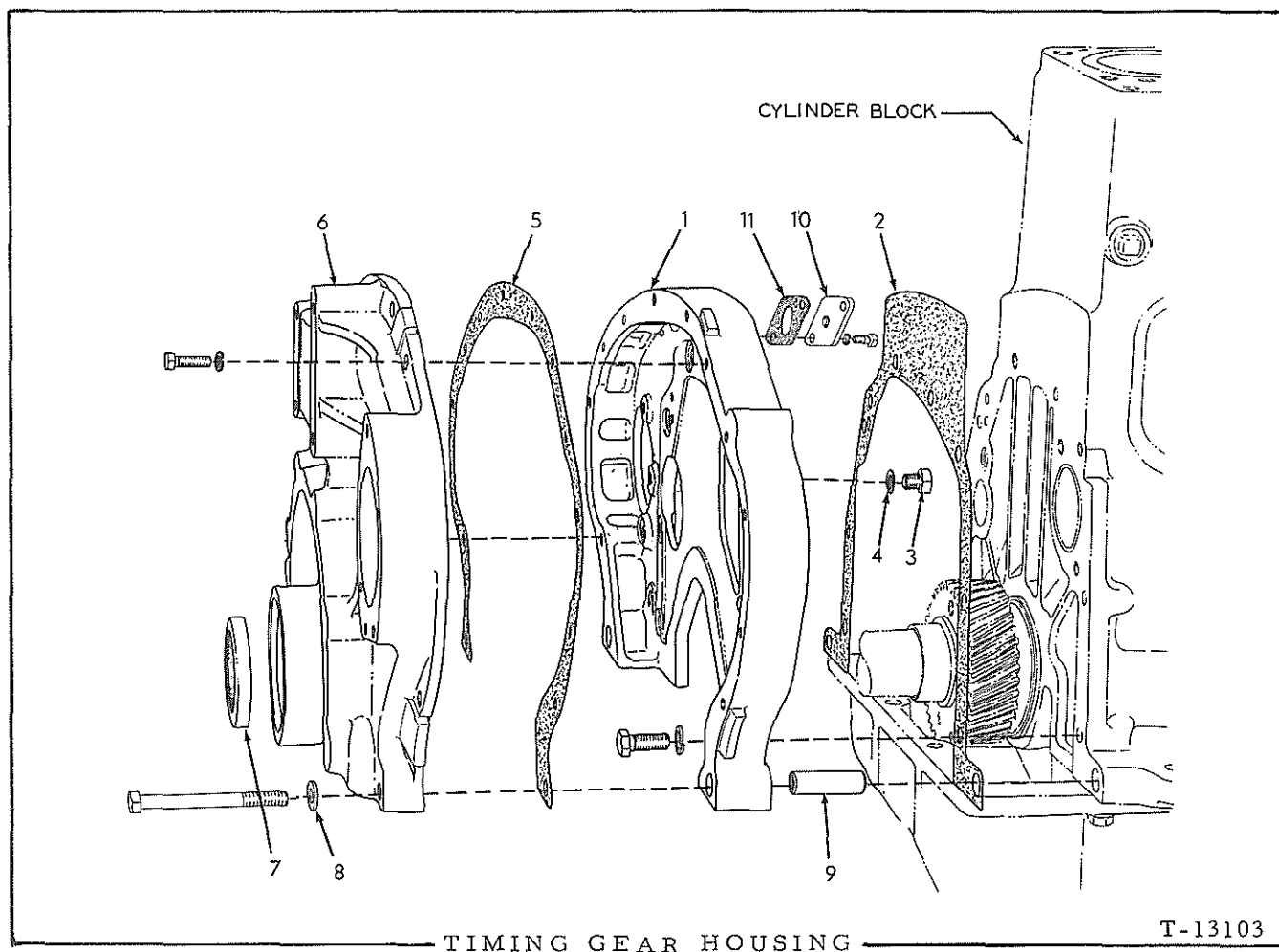
Use as required when
remachining block

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

(Continued)

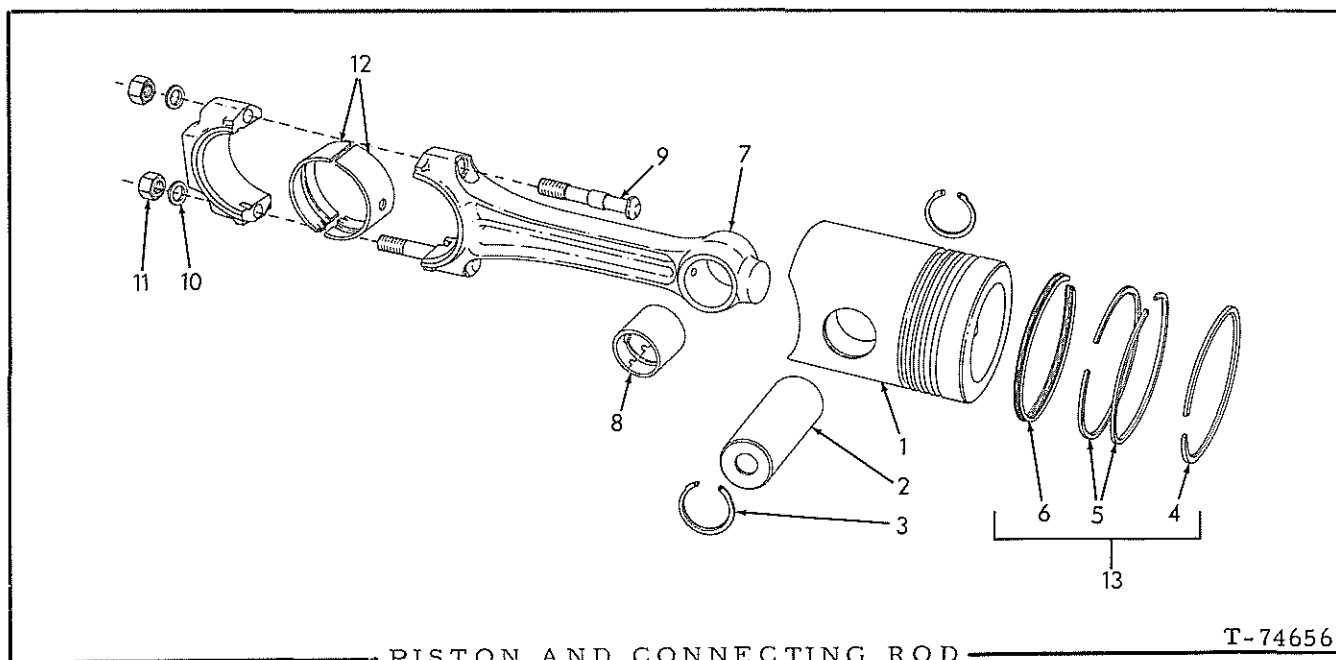
CYLINDER BLOCK (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
30	4389810	1	COVER, push rod, rear
	916316	3	CAPSCREW, 1/2"NC x 2-1/2"
31	4389809	1	COVER, push rod, front
	916316	2	CAPSCREW, 1/2"NC x 2-1/2"
	916317	1	CAPSCREW, 1/2"NC x 2-3/4"
32	4376749	7	□WASHER, push rod cover capscREW
33	4310257	1	□GASKET, oil filler pipe
34	4389040	1	ELBOW, oil filler
	4379198	2	CAPSCREW, Nylok, 1/2"NC x 1-3/8"
35	4354449	1	CLOSURE ASSEMBLY, oil filler (Serviced only as a unit)
36	4391378	1	ADAPTER, oil level gauge
37	4391366	1	GAUGE, oil level

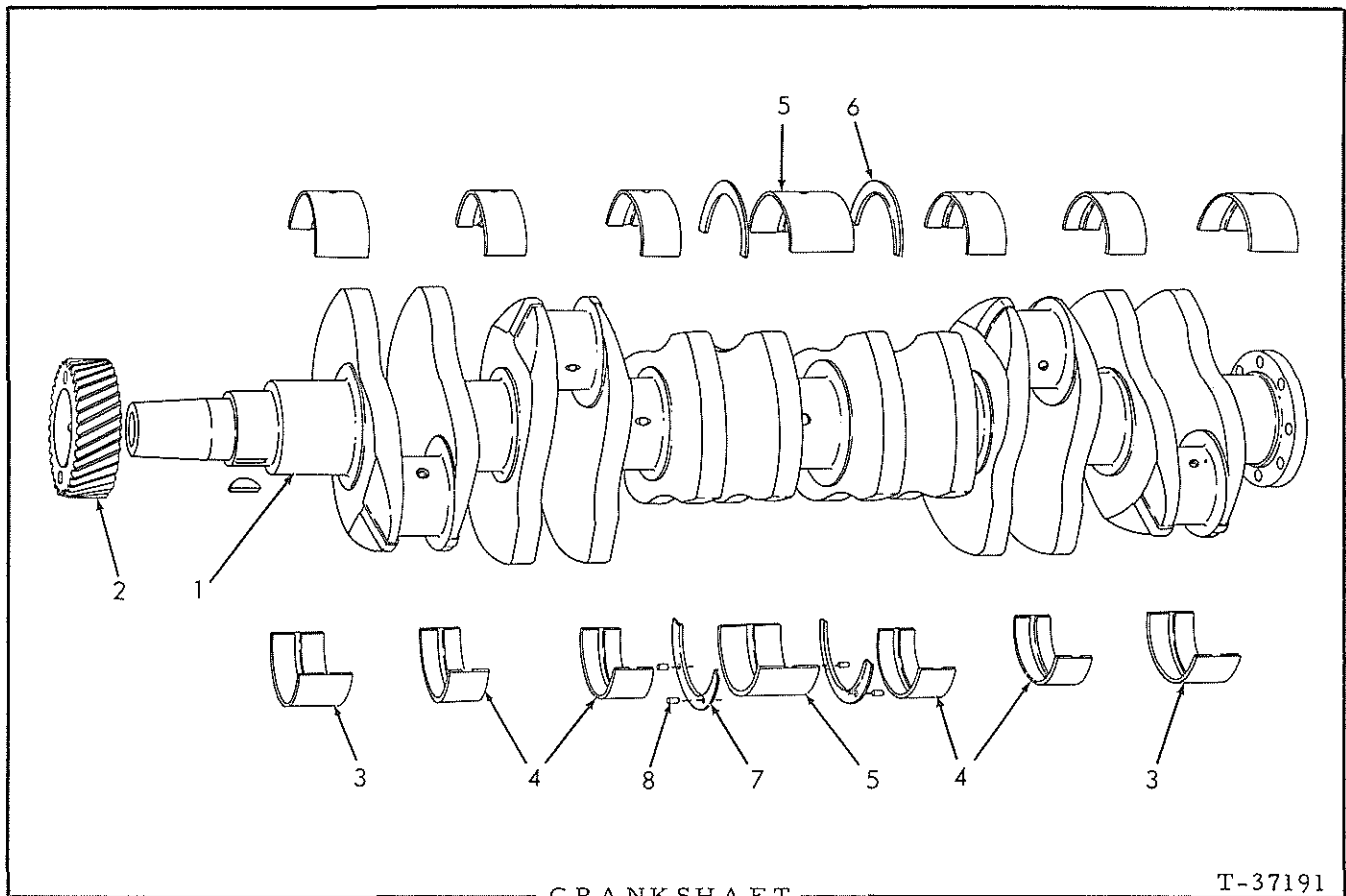


ITEM	PART NO.	QTY.	DESCRIPTION
1	4389784	1	HOUSING
	916311	8	CAPSCREW, 1/2"NC x 1-1/4"
	904208	8	LOCKWASHER, 1/2"
2	4660492	1	□GASKET, gear housing
3	919229	1	CAPSCREW, plugging (1/2"NC x 1/2")
4	4119937	1	□GASKET, plugging capscREW
5	4376609	1	□GASKET, gear housing cover
6	4391911	1	COVER, timing gear housing
	916321	2	CAPSCREW, 1/2"NC x 4-1/2"
	919224	7	CAPSCREW, 3/8"NC x 1-1/8"
	904206	7	LOCKWASHER, 3/8"
7	4027416	1	SEAL, oil, crankshaft
8	4371445	2	WASHER, plain, housing cover capscREW
9	4371444	2	DOWEL, hollow, gear housing
10	4390837	1	COVER, gear housing
	915408	2	CAPSCREW, 3/8"NC x 3/4"
	904206	2	LOCKWASHER, 3/8"
11	4371027	1	□GASKET, gear housing cover

MEMO



ITEM	PART NO.	QTY.	DESCRIPTION
1	4391487	6	PISTON
2	4390175	6	PIN, piston
3	4253749	12	RETAINER, piston pin
4	-----	6	RING, compression (#1)
5	-----	12	RING, compression (#2 and #3)
6	-----	6	RING, oil control
7	4390068	6	ROD ASSEMBLY, connecting (Includes items 8 thru 11)
8	4376986	6	BUSHING, connecting rod
9	4388142	12	BOLT, connecting rod
10	4388146	12	WASHER, connecting rod bolt
11	4390011	12	NUT, connecting rod bolt
12	4390698	12	BEARING, connecting rod (standard size)
	4391156	12	BEARING, connecting rod (.010" undersize)
	4391157	12	BEARING, connecting rod (.020" undersize)
	4391158	12	BEARING, connecting rod (.030" undersize)
	4391159	12	BEARING, connecting rod (.040" undersize)
13	4391489	6	ORING SET (Consists of items 4 thru 6)



CRANKSHAFT

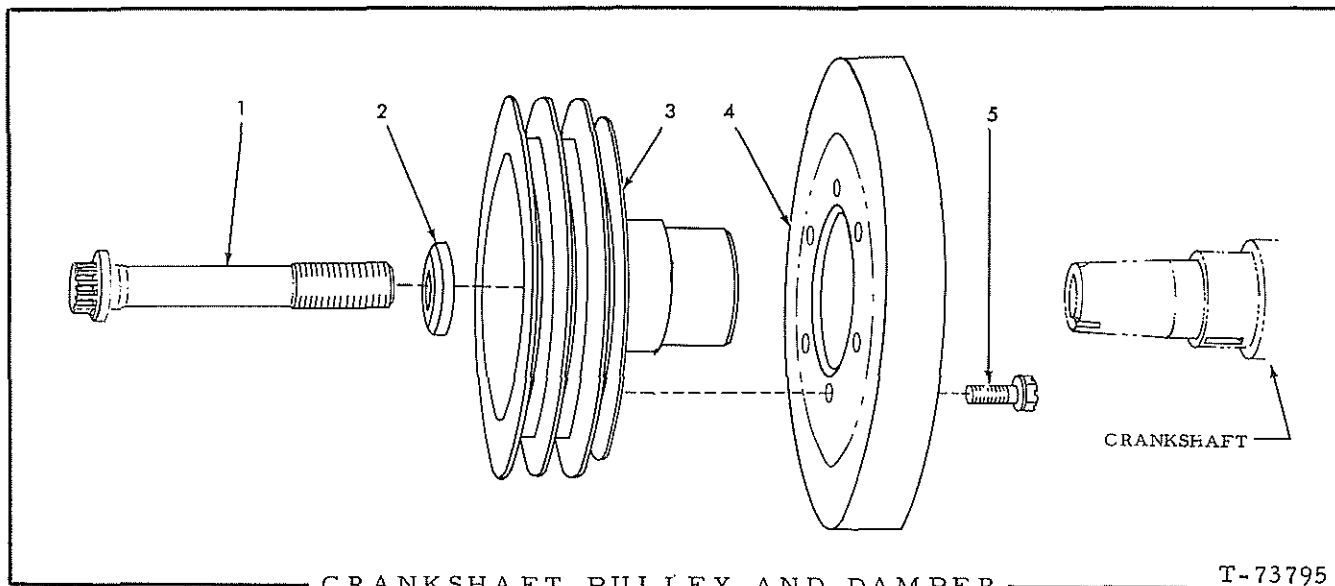
T-37191

ITEM	PART NO.	QTY.	DESCRIPTION
1	4392106	1	CRANKSHAFT
2	4389052	1	GEAR, crankshaft
	905129	1	KEY, #D woodruff, 5/16" x 1-1/4"
3	4387031	4	BEARING, front and rear main (standard size)
	4386480	4	BEARING, front and rear main (.010" undersize)
	4386481	4	BEARING, front and rear main (.020" undersize)
	4386482	4	BEARING, front and rear main (.030" undersize)
	4386483	4	BEARING, front and rear main (.040" undersize)
4	4387032	8	BEARING, intermediate main (standard size)
	4386473	8	BEARING, intermediate main (.010" undersize)
	4386474	8	BEARING, intermediate main (.020" undersize)
	4386475	8	BEARING, intermediate main (.030" undersize)
	4386476	8	BEARING, intermediate main (.040" undersize)

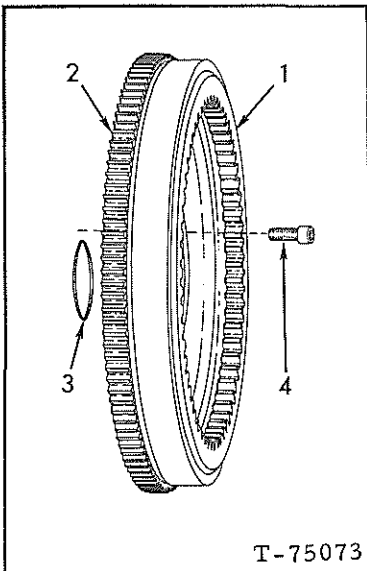
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CRANKSHAFT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
5	4387033	1	BEARING, center main (standard size)
	4386469	1	BEARING, center main (.010" undersize)
	4386466	1	BEARING, center main (.020" undersize)
	4386467	1	BEARING, center main (.030" undersize)
	4386468	1	BEARING, center main (.040" undersize)
6	4386360	2	FLANGE, thrust, center main, upper (standard size)
	4386456	2	FLANGE, thrust, center main, upper (.005" oversize)
	4386457	2	FLANGE, thrust, center main, upper (.010" oversize)
	4386458	2	FLANGE, thrust, center main, upper (.015" oversize)
7	4386359	2	FLANGE, thrust, center main, lower (standard size)
	4386453	2	FLANGE, thrust, center main, lower (.005" oversize)
	4386454	2	FLANGE, thrust, center main, lower (.010" oversize)
	4386455	2	FLANGE, thrust, center main, lower (.015" oversize)
8	4250898	4	PIN, dowel, thrust flange



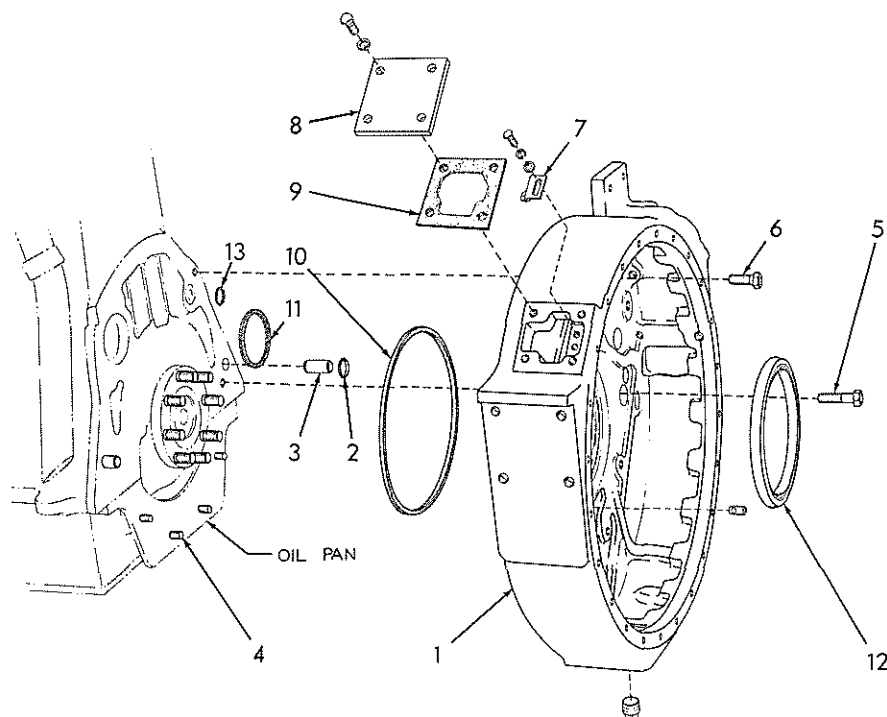
ITEM	PART NO.	QTY.	DESCRIPTION
1	4391308	1	SCREW, pulley retaining
2	4391649	1	WASHER, pulley bolt
3	4391578	1	PULLEY ASSEMBLY, crankshaft (Includes locating pin)
4	4388217	1	DAMPER, crankshaft
5	4391022	6	BOLT, self-locking



FLYWHEEL

ITEM	PART NO.	QTY.	DESCRIPTION
1	4391231	1	FLYWHEEL ASSEMBLY (Includes item 2)
2	4303694	1	GEAR, ring
3	4255912	1	O-RING, flywheel to crankshaft
4	4391666	8	CAPSCREW, flywheel

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

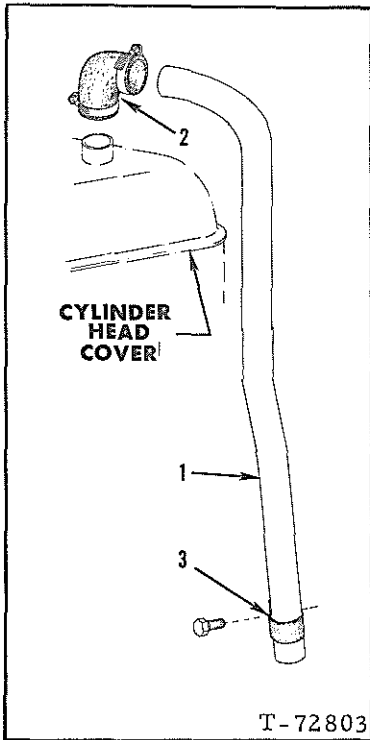


FLYWHEEL HOUSING

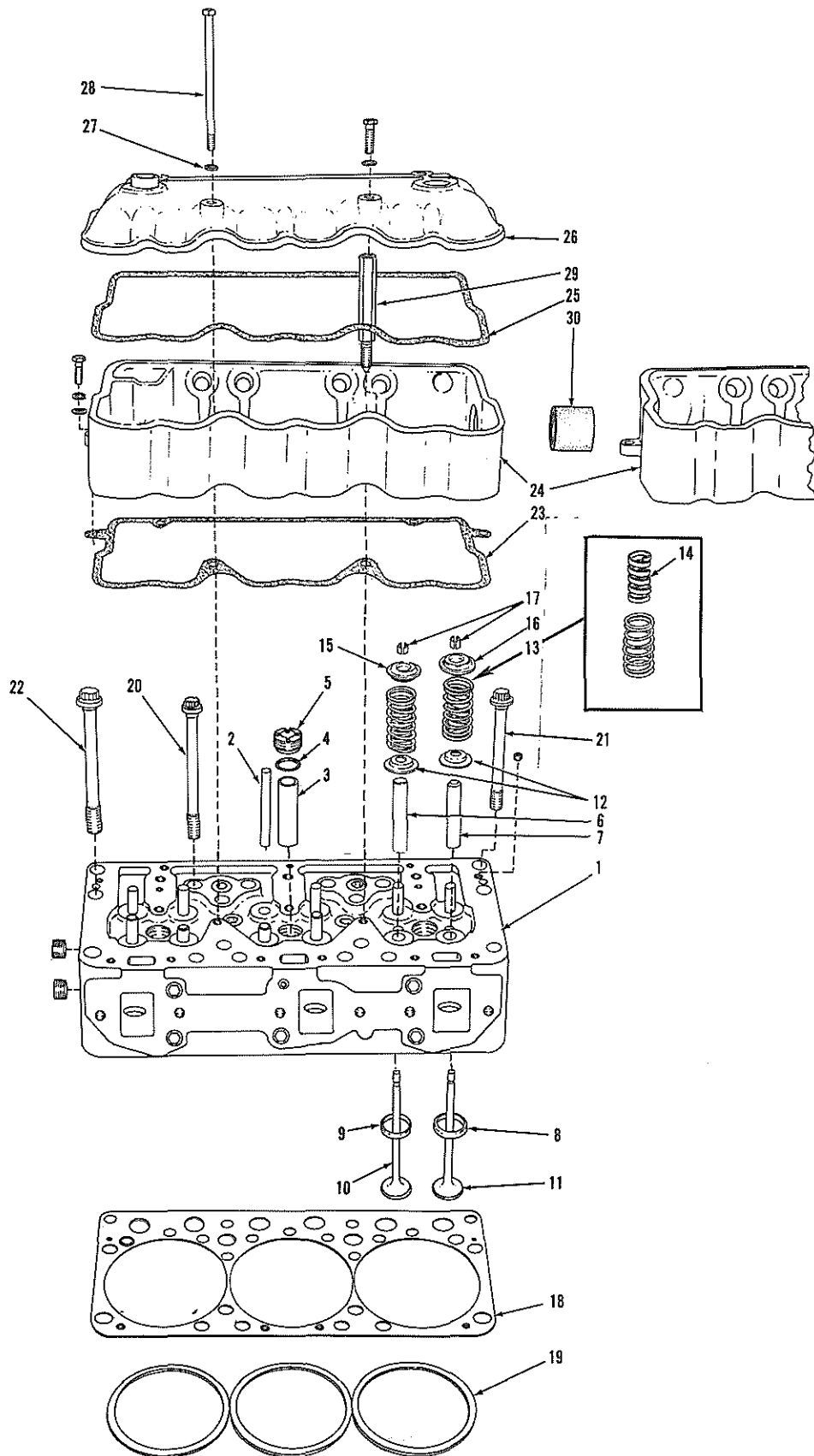
T-41788

ITEM	PART NO.	QTY.	DESCRIPTION
1	4391387	1	HOUSING, flywheel
	922884	1	SETSCREW, hex-socket, cup-pt., Nylok, 7/16"NC x 1/2"
	920132	1	PLUG, pipe, 1/2"NPT
2	923810	2	O-RING, housing dowel
3	4373716	2	DOWEL, housing to crankcase
4	926686	4	CAPSCREW, oil pan to housing (1/2"NC x 7/8", flanged head)
	912333	4	WASHER, plain
5	4255335	2	BOLT, housing to crankcase (1/2"NC x 2")
6	4255334	8	BOLT, housing to crankcase (1/2"NC x 1-3/8")
7	4386651	1	POINTER, timing
	916284	2	CAPSCREW, 1/4"NC x 1/2"
	904204	2	LOCKWASHER, 1/4"
	911114	2	WASHER, plain, SAE std., 1/4"
8	4386650	1	COVER, timing hole
	915813	4	CAPSCREW, 5/16"NC x 7/8"
	904205	4	LOCKWASHER, 5/16"
9	4390432	1	GASKET, timing hole cover
10	4336897	1	RING, sealing, housing to crankcase
11	4255904	1	RING, sealing, housing to crankcase (camshaft hole)
12	4391711	1	SEAL, oil, crankshaft flange
13	4255898	1	RING, sealing, housing to crankcase (oil gallery hole)

ENGINE BREATHER



ITEM	PART NO.	QTY.	DESCRIPTION
1	4390435	1	TUBE, breather
2	4255351	1	ELBOW, rubber
	922198	2	CLAMP, hose, 1-9/16" to 2-9/16" diam.
3	4255361	1	CLIP, tube supporting
	921865	1	CAPSCREW, Nylok, 1/2"NC x 1"



CYLINDER HEAD

T-37183

CYLINDER HEAD

ITEM	PART NO.	QTY.	DESCRIPTION
1	4392110-5	2	HEAD ASSY., cylinder (Includes items 2 thru 9 and plugs indented below)(Engines prior to #21-10855)
	4393613-7	2	HEAD ASSY., cylinder (Includes items 2 thru 9A and plugs indented below)(Engines #21-10855 and up)
	4255490-9	8	PLUG, pipe, hex-socket, 1/8"NPT
	4255491-5	2	PLUG, pipe, hex-socket, 1/4"NPT
	4255577-1	26	PLUG, pipe, hex-socket, 3/4"NPT
2	4386413-1	12	PIN, guide, valve bridge
3	4392051-1	6	SLEEVE, injection nozzle
4	0926672-7	6	O-RING, injection nozzle sleeve
5	4392052-9	6	NUT, injection nozzle sleeve
6	4390547-0	12	GUIDE, intake valve
7	4390548-8	12	GUIDE, exhaust valve
8	4392053-7	12	INSERT, exhaust valve seat (standard size)
	4392068-5	12	INSERT, exhaust valve seat (.005" oversize)
9	4386628-4	12	INSERT, intake valve seat (standard size)
	4386653-2	12	INSERT, intake valve seat (.005" oversize)
9A	4392576-7	6	INSERT, injection nozzle (Effective with engine #21-10855)
10	4386790-2	12	VALVE, intake
11	4392054-5	12	VALVE, exhaust
12	4389685-1	24	SEAT, valve spring
13	4389294-2	24	SPRING ASSY., valve (Includes item 14)
14	4389293-4	24	DAMPER, valve spring
15	4389397-3	24	ROTOCOIL ASSY., valve (Serviced only as a unit)
16	-----	-	RETAINER, exhaust valve spring (Order item 15)
17	4376497-6	48	LOCK, valve stem
18	4390170-1	2	☐ GASKET ASSY., cylinder head (Includes item 19)
19	4390043-0	6	☐ GASKET, cylinder sealing
20	4391306-0	26	SCREW, cylinder head (5/8"NC x 7")
21	4391307-8	2	SCREW, cylinder head (5/8"NC x 6")
22	4393443-9	8	SCREW, cylinder head (3/4"NC x 7-1/4")

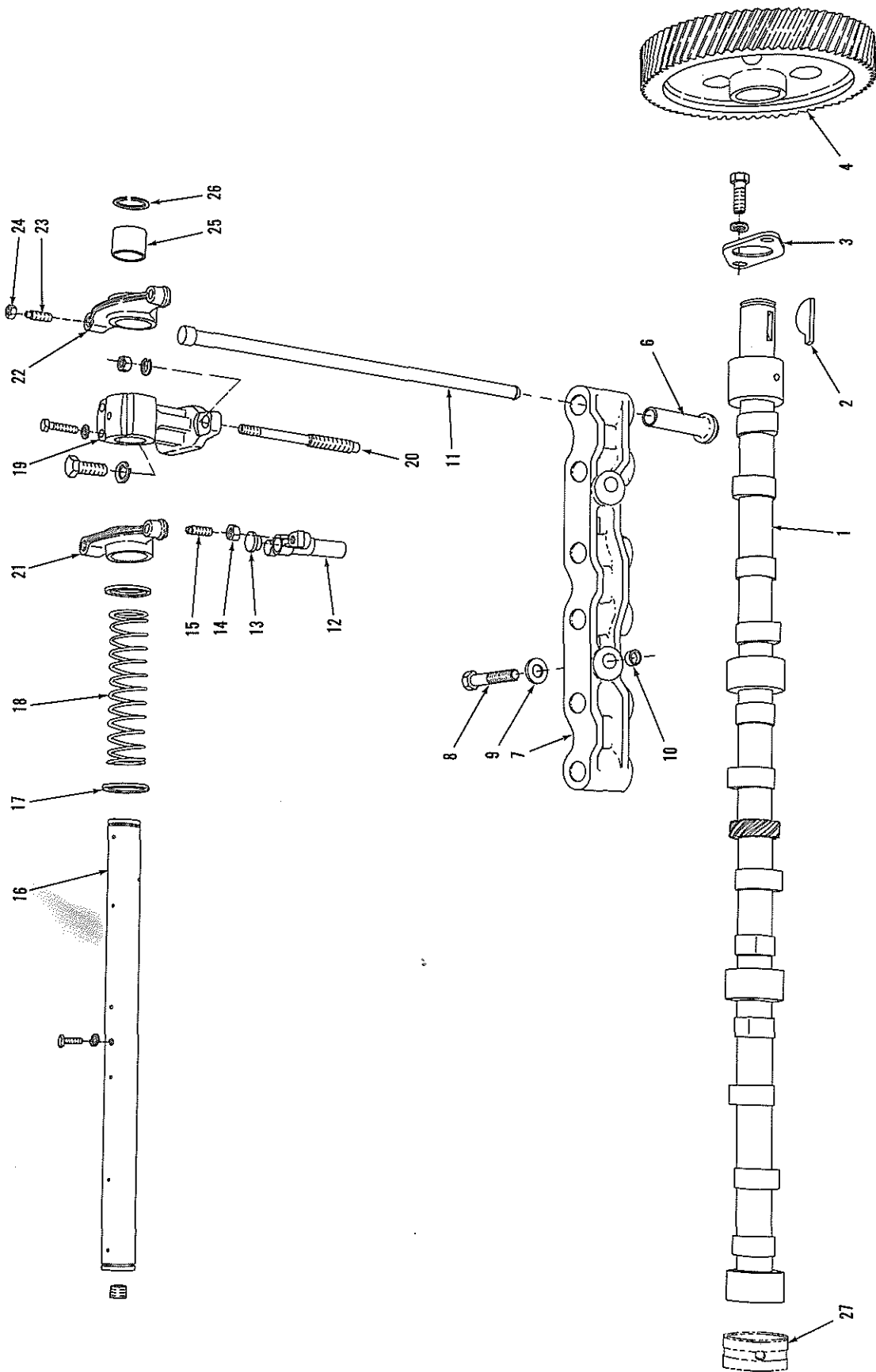
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CYLINDER HEAD (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
23	4389960-8	2	□ GASKET, lower cover
24	4392059-4	1	COVER, lower section, front (If for engines prior to #21-10117 also order 1 PLUG 0921507-0 for rear cover and discard item 30)
	4392062-8	1	COVER, lower section, rear (If for engines prior to #21-10117 also order 1 PLUG 0921507-0 for front cover and discard item 30)
	0916272-8	4	CAPSCREW, 3/8"NC x 1-1/4"
	0904206-0	4	LOCKWASHER, 3/8"
	0913544-3	4	WASHER, plain
25	4389961-6	2	□ GASKET, rocker cover
26	4387726-5	1	COVER, rocker, rear
	0914847-9	1	CAPSCREW, 3/8"NC x 1-1/2"
	4386901-5	1	COVER, rocker, front
27	4254873-5	8	□ WASHER, sealing, rocker cover capscREW
28	4386421-4	7	CAPSCREW, rocker cover
29	4389965-7	1	BOLT, extension, rear lower cover
30	4386941-1	1	COUPLING, breather, cylinder head cover (Used prior to engine #21-10117)

MEMO

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

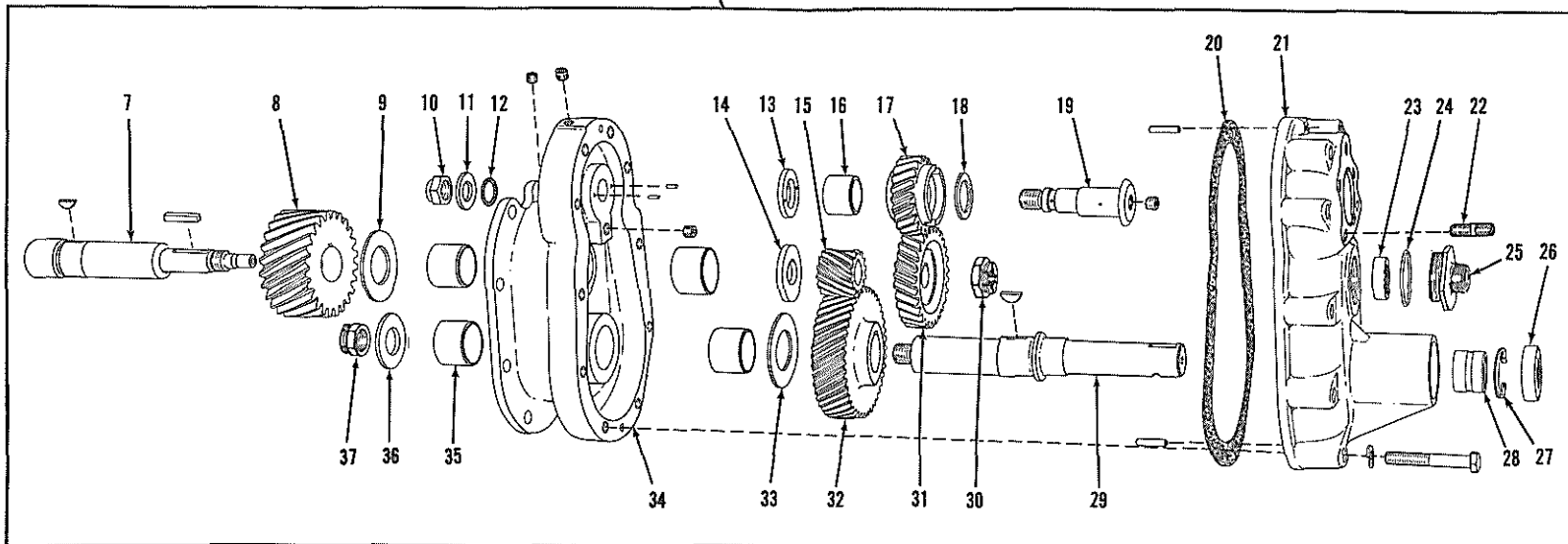
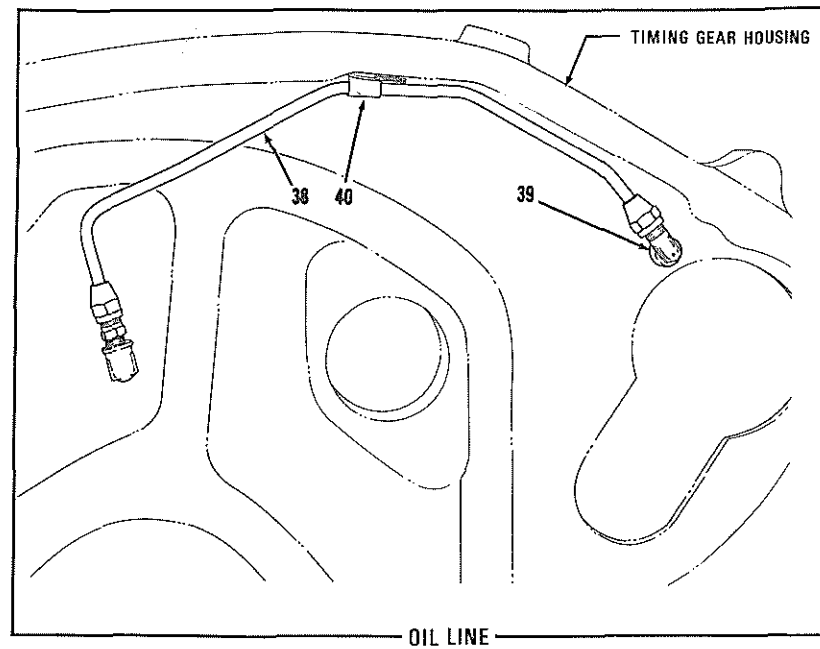
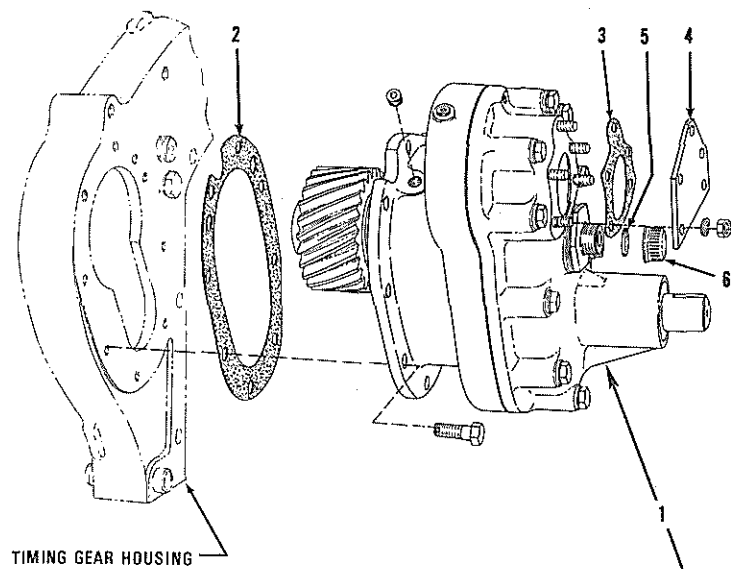


T-37184

VALVE OPERATING MECHANISM

VALVE OPERATING MECHANISM

ITEM	PART NO.	QTY.	DESCRIPTION
1	4392182	1	CAMSHAFT
2	923738	1	KEY, camshaft gear
3	4386776	1	PLATE, thrust
	916311	2	CAPSCREW, 1/2"NC x 1-1/4"
	904208	2	LOCKWASHER, 1/2"
4	4392183	1	GEAR, camshaft
6	4391845	12	LIFTER, valve
7	{ 4391869	1	BRACKET, valve lifter, front
	4391870	1	BRACKET, valve lifter, rear
8	915969	4	CAPSCREW, 1/2"NC x 3"
9	4376277	4	WASHER, valve lifter bracket capscrow
10	4303038	4	DOWEL, valve lifter bracket
11	4391849	12	ROD, push
12	4390270	12	BRIDGE ASSEMBLY, valve (Includes items 13 thru 15)
13	4376538	12	INSERT, valve bridge
14	4348440	12	NUT, valve bridge adjustment screw
15	4390254	12	SCREW, valve bridge adjustment
16	4390117	2	SHAFT ASSEMBLY, rocker arm (Includes PLUGS indented below)
	918887	4	PLUG, pipe, hex-socket, 3/8"NPT
	915406	2	CAPSCREW, 1/4"NC x 3/4"
	904204	2	LOCKWASHER, 1/4"
17	4386406	8	RETAINER, rocker arm
18	4386405	4	SPRING, rocker shaft
19	4389317	6	BRACKET, rocker shaft
	916311	6	CAPSCREW, 1/2"NC x 1-1/4" (attaching)
	904208	6	LOCKWASHER, 1/2"
	915807	12	CAPSCREW, 5/16"NC x 1-1/4" (clamping)
	904205	12	LOCKWASHER, 5/16"
20	4377541	6	STUD, rocker shaft bracket (Also retains injection nozzle holder)
	910325	6	NUT, 1/2"NC
	904208	6	LOCKWASHER, 1/2"
21	{ 4390296	4	ARM ASSEMBLY, rocker, intake valve Nos. 1,2,4,5
	4390297	2	ARM ASSEMBLY, rocker, exhaust valve Nos. 3,6
22	{ 4390294	4	ARM ASSEMBLY, rocker, exhaust valve Nos. 1,2,4,5
	4390295	2	ARM ASSEMBLY, rocker, intake valve Nos. 3,6
<u>NOTE:</u> Each Arm Assembly listed above includes items 23 thru 25			
23	4336646	12	SCREW, valve lash adjustment
24	4348440	12	NUT, adjustment screw
25	4388428	12	BUSHING, rocker arm
26	4253190	4	RING, snap, rocker arm shaft
27	-----	-	BEARING, camshaft (See CYLINDER BLOCK)



ACCESSORY DRIVE

T-39416

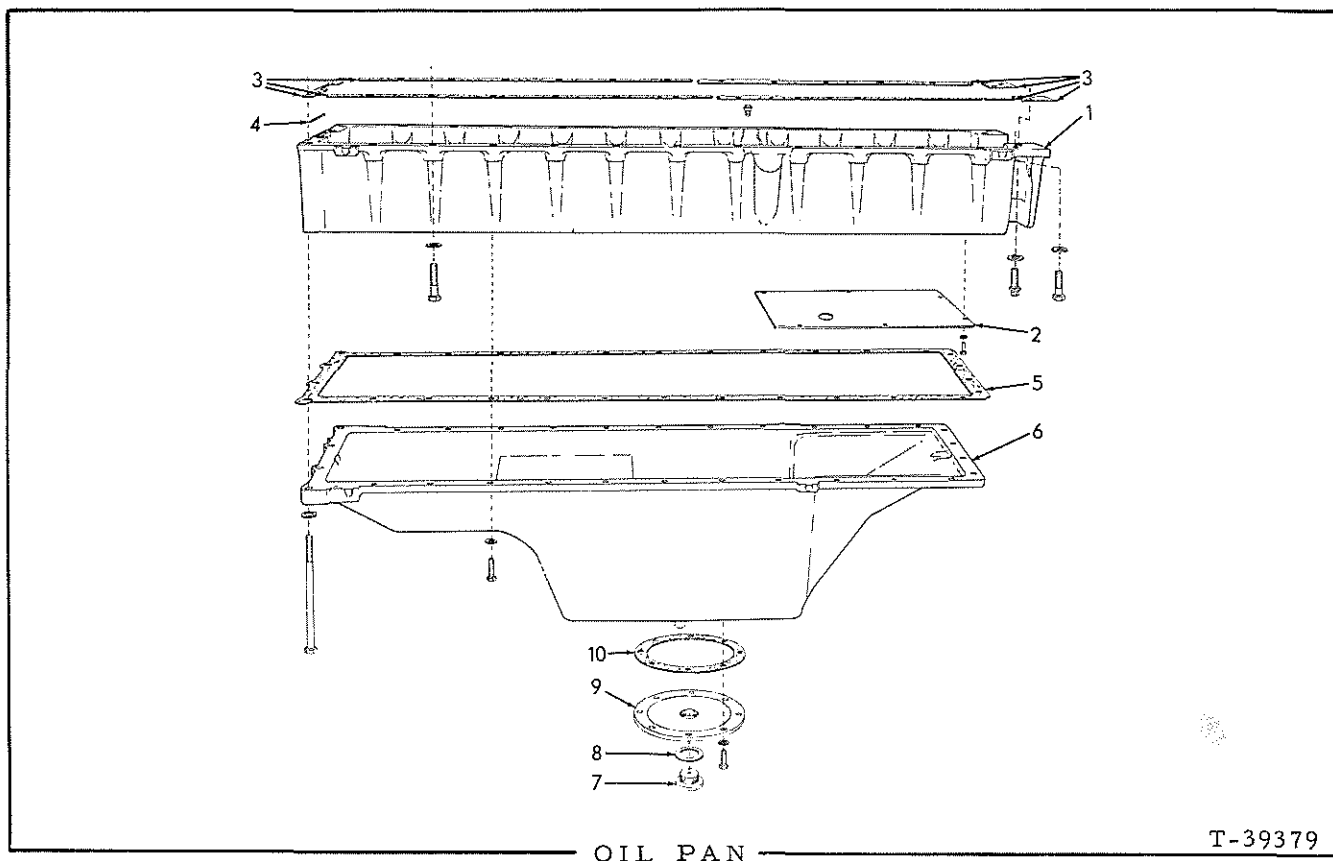
ACCESSORY DRIVE

ITEM	PART NO.	QTY.	DESCRIPTION
1	4391441	1	DRIVE ASSEMBLY (Consists of items 7 thru 37)
	921520	8	CAPSCREW, Nylok, 3/8"NC x 7/8"
2	4376603	1	□GASKET, accessory drive to gear housing
3	4386826	1	GASKET, housing cover plate
4	4389593	1	PLATE, housing cover
	904206	5	LOCKWASHER, 3/8"
	910123	5	NUT, 3/8"NF
5	4367090	1	□GASKET, tachometer hole nut
6	4371118	1	NUT, cover, tachometer hole
7	4391419	1	SHAFT, upper
	917409	1	KEY, #9 woodruff, 3/16" x 3/4"
	921732	1	KEY, straight, 3/16" x 7/8"
8	4391403	1	GEAR, accessory drive
9	4391412	1	WASHER, thrust, upper shaft, front
10	4376671	1	NUT, auxiliary drive gear shaft
11	900703	1	WASHER, auxiliary drive gear shaft
12	923574	1	O-RING, auxiliary drive gear shaft
13	4376598	1	WASHER, thrust, auxiliary drive gear
	917014	2	PIN, dowel, 1/8" x 3/8"
14	4391407	1	WASHER, thrust, rear
15	4364404	1	GEAR, upper shaft (14 teeth)
16	4376596	1	BUSHING, auxiliary drive gear
17	4377122	1	GEAR ASSEMBLY, auxiliary drive (Includes item 16)
18	4391411	1	PLATE, thrust, auxiliary drive gear
19	4376591	1	SHAFT ASSEMBLY, auxiliary drive (Includes PLUG indented below)
	917673	1	PLUG, pipe, hex-socket, 1/8"NPT
20	4376604	1	GASKET, cover
21	4386711	1	COVER ASSEMBLY, housing (Includes item 28)
	912069	10	CAPSCREW, 3/8"NC x 2-1/2"
	904206	10	LOCKWASHER, 3/8"
	917023	2	PIN, dowel, 1/4" x 1"
22	4389599	5	STUD, housing cover
23	4391019	1	SEAL, oil, upper shaft
24	4251601	1	GASKET, tachometer drive adapter

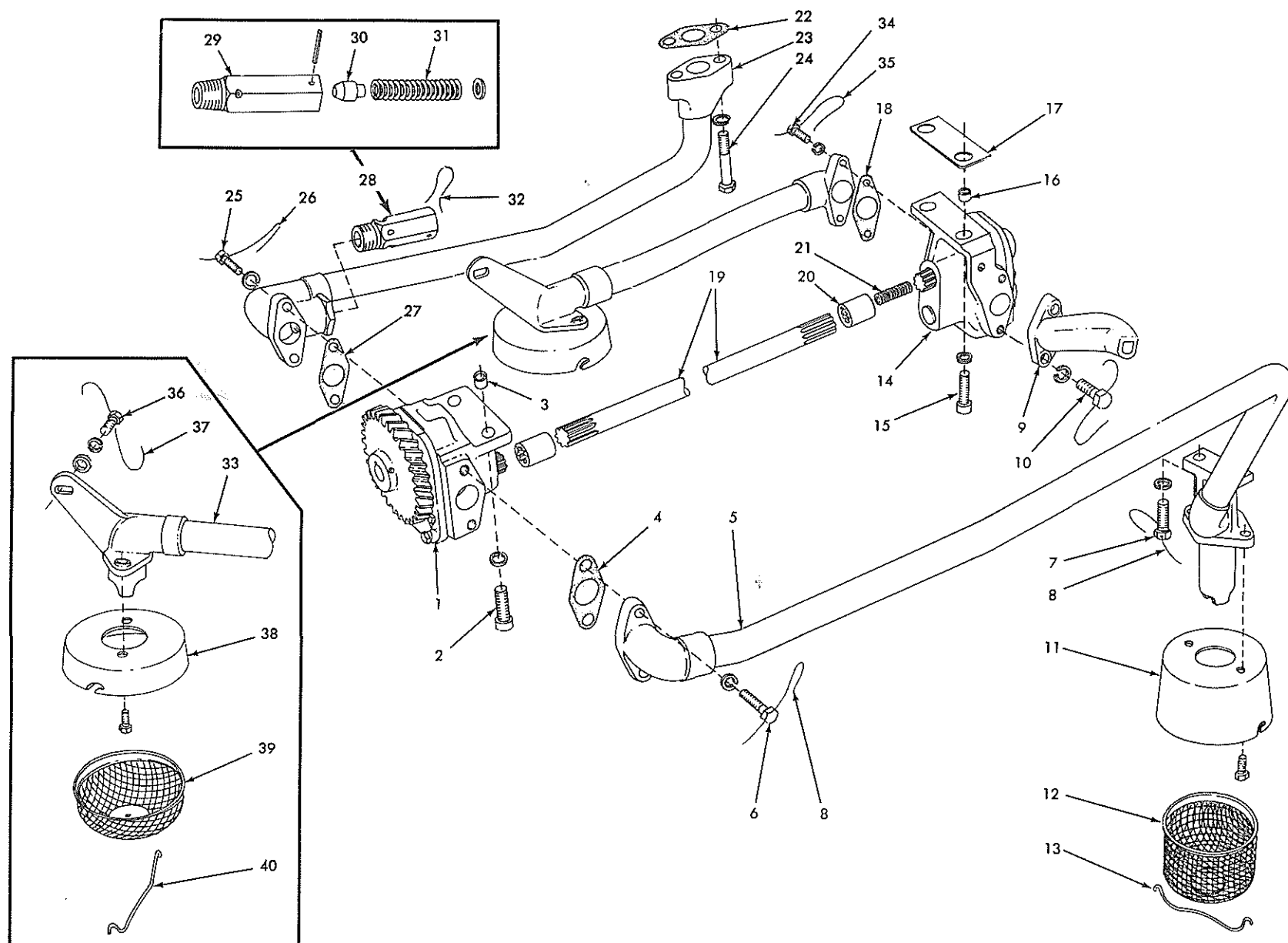
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ACCESSORY DRIVE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
25	4365627	1	ADAPTER, tachometer drive
26	4386879	1	SEAL, oil, lower shaft
27	4254742	1	RING, snap, bushing retaining
28	4377278	1	BUSHING, housing cover
29	4391475	1	SHAFT, lower
	917409	1	KEY, #9 woodruff, 3/16" x 3/4"
30	918182	1	NUT, upper shaft (self-locking)
31	4376590	1	GEAR, driving, fuel transfer pump
32	4391554	1	GEAR, lower shaft (42 teeth)
33	4391412	1	WASHER, thrust, lower shaft, rear
34	4391408	1	HOUSING ASSEMBLY (Includes item 35)
	917673	4	PLUG, pipe, hex-socket, 1/8"NPT
35	4369746	4	BUSHING, accessory drive housing
36	4364166	1	WASHER, thrust, lower shaft, front
37	918182	1	NUT, lower shaft (self-locking)
38	4376627	1	TUBE ASSEMBLY, lubricating oil (Includes nuts)
	910141	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
	907013	1	ELBOW, street, brass, 90°, 1/8"NPT
39	4391885	1	ELBOW, lubricating oil tube
	917841	1	NIPPLE, pipe, 1/8"NPT x 7/8"
40	4361829	1	CLIP, tube supporting
	4335669	1	CAPSCREW, drilled-hd., 1/4"NC x 1/2"
	904204	1	LOCKWASHER, 1/4"
	4348691	1	WIRE, locking #18 x 6"



ITEM	PART NO.	QTY.	DESCRIPTION
1	4391646	1	PAN, oil, upper section
	919840	1	PLUG, pipe, hex-hd., 1/4"NPT
	916314	23	CAPSCREW, 1/2"NC x 2"
	915987	1	CAPSCREW, 1/2"NC x 1-1/2"
	922065	2	SCREW, 12-pt. head, 1/2"NC x 1-1/4"
	912333	26	WASHER, plain
2	4385796	1	PLATE, oil baffle
	915343	6	CAPSCREW, 1/4"NC x 5/8"
	904204	6	LOCKWASHER, 1/4"
3	4365129	1	GASKET SET, upper oil pan
4	4379070	1	OSEAL, oil
5	4385781	1	GASKET SET, lower oil pan
6	4391390	1	PAN, oil, lower section
	914847	26	CAPSCREW, 3/8"NC x 1-1/2"
	911423	26	WASHER, plain, 3/8"
	916326	4	CAPSCREW, 1/2"NC x 7-1/2"
	912333	4	WASHER, plain, 1/2"
7	035250	1	PLUG, oil drain
8	667252	1	O GASKET, drain plug
9	4371255	1	PLATE, clean-out hole
	919224	8	CAPSCREW, 3/8"NC x 1-1/8"
	904206	8	LOCKWASHER, 3/8"
10	4371289	1	O GASKET, clean-out hole plate



OIL PUMPS

T-37208

OIL PUMPS

ITEM	PART NO.	QTY.	DESCRIPTION
1	4390252	1	PUMP ASSEMBLY, pressure (See page 38 for parts)
2	912274	2	CAPSCREW, hex-socket-hd., 7/16"NC x 1-1/2"
	904207	2	LOCKWASHER, 7/16"
3	4371253	2	DOWEL, hollow, pressure pump
4	4389782	1	OGASKET, pressure pump suction line
5	4390362	1	TUBE, suction, pressure pump
6	4378558	2	CAPSCREW, drilled-hd., 3/8"NC x 1-1/8"
	904206	2	LOCKWASHER, 3/8"
7	4377201	2	CAPSCREW, drilled-hd., 7/16"NC x 1-1/4"
	904207	2	LOCKWASHER, 7/16"
8	4509035	2	WIRE, locking, #18 x 10"
9	4388488	1	TUBE, discharge, scavenging pump
10	4335610	2	CAPSCREW, drilled-hd., 3/8"NC x 1"
	904206	2	LOCKWASHER, 3/8"
	4509035	1	WIRE, locking, #18 x 10"
11	4389732	1	COVER, pressure pump oil screen
	915813	2	CAPSCREW, 5/16"NC x 7/8"
12	4374127	1	SCREEN, pressure oil pump
13	4376294	1	RETAINER, pressure oil pump screen
14	4390098	1	PUMP ASSEMBLY, scavenging (See page 39 for parts)
15	912274	2	CAPSCREW, hex-socket-hd., 7/16"NC x 1-1/2"
	904207	2	LOCKWASHER, 7/16"
16	4371253	2	DOWEL, hollow, scavenging pump
17	4386384	1	SHIM, scavenging pump
18	4389782	1	OGASKET, scavenging pump suction line
19	4385537	1	SHAFT, scavenging pump drive
20	4385536	2	COUPLING, splined, scavengine pump drive
21	4385715	1	SPRING, pump drive shaft
22	4660423	1	OGASKET, discharge line to block
23	4388261	1	TUBE, pressure pump discharge
24	916314	2	CAPSCREW, 1/2"NC x 2"
	904208	2	LOCKWASHER, 1/2"
25	4378558	2	CAPSCREW, drilled-hd., 3/8"NC x 1-1/8"
	904206	2	LOCKWASHER, 3/8"
26	4509035	1	WIRE, locking #18 x 10"
27	4389782	1	OGASKET, discharge line to pump
28	4354573	1	VALVE ASSEMBLY, pressure relief (Items 29 thru 31)
29	-----	1	BODY, pressure relief valve
30	-----	1	PISTON, pressure relief valve

} Not serviced separately

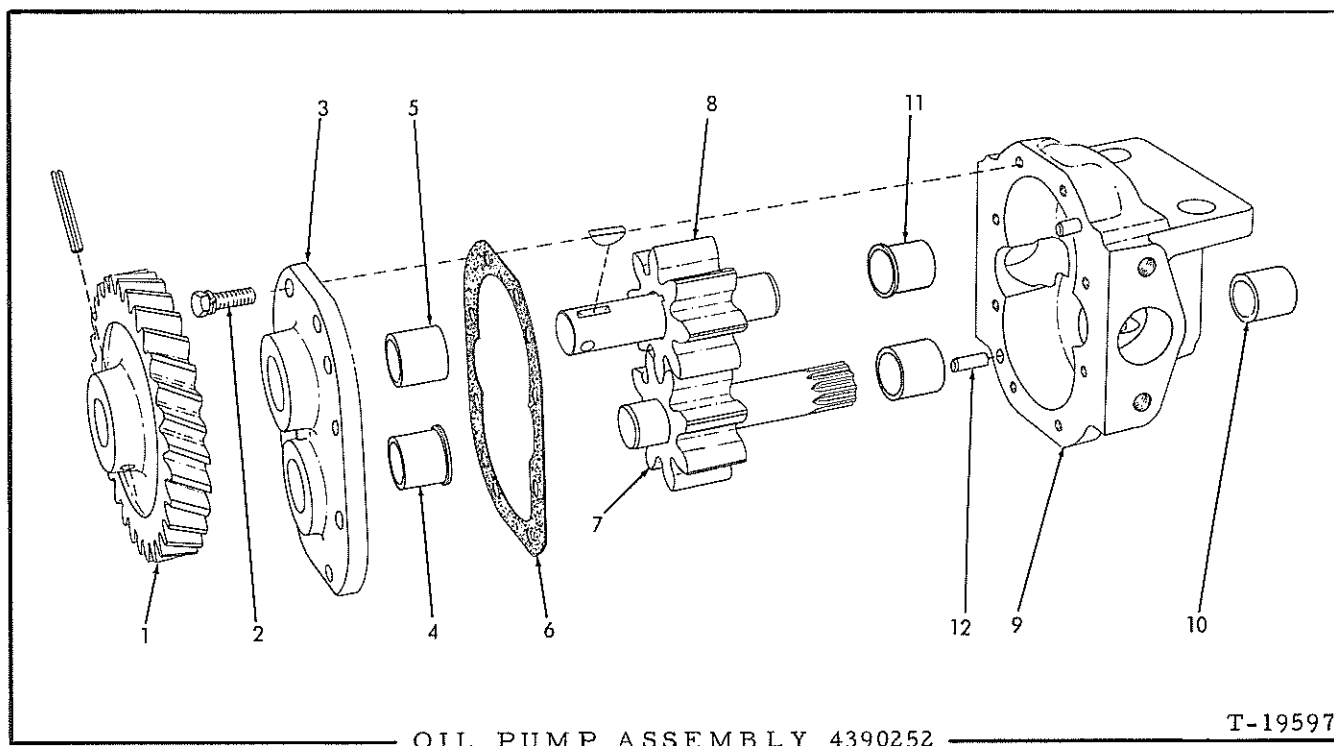
(Continued)

OIL PUMPS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
31	4354568	1	SPRING, pressure relief valve
	4359310	1	WASHER, plain
	916001	1	PIN, roll, 3/16" x 1"
32	4509035	1	WIRE, locking, pressure relief valve
33	4390328	1	TUBE, suction, scavenging pump
34	4335548	2	CAPSCREW, drilled-hd., 3/8"NC x 1-7/8"
35	4509035	1	WIRE, locking, #18 x 10"
36	4377202	1	CAPSCREW, drilled-hd., 5/16"NC x 1"
	913755	1	WASHER, plain
	904206	2	LOCKWASHER, 3/8"
	904205	1	LOCKWASHER, 5/16"
37	4348691	1	WIRE, locking #18 x 6"
38	4348684	1	COVER, scavenging pump screen
	915813	2	CAPSCREW, 5/16"NC x 7/8"
39	4348683	1	SCREEN, scavenging oil pump
40	4348682	1	RETAINER, scavenging oil pump screen

MEMO

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

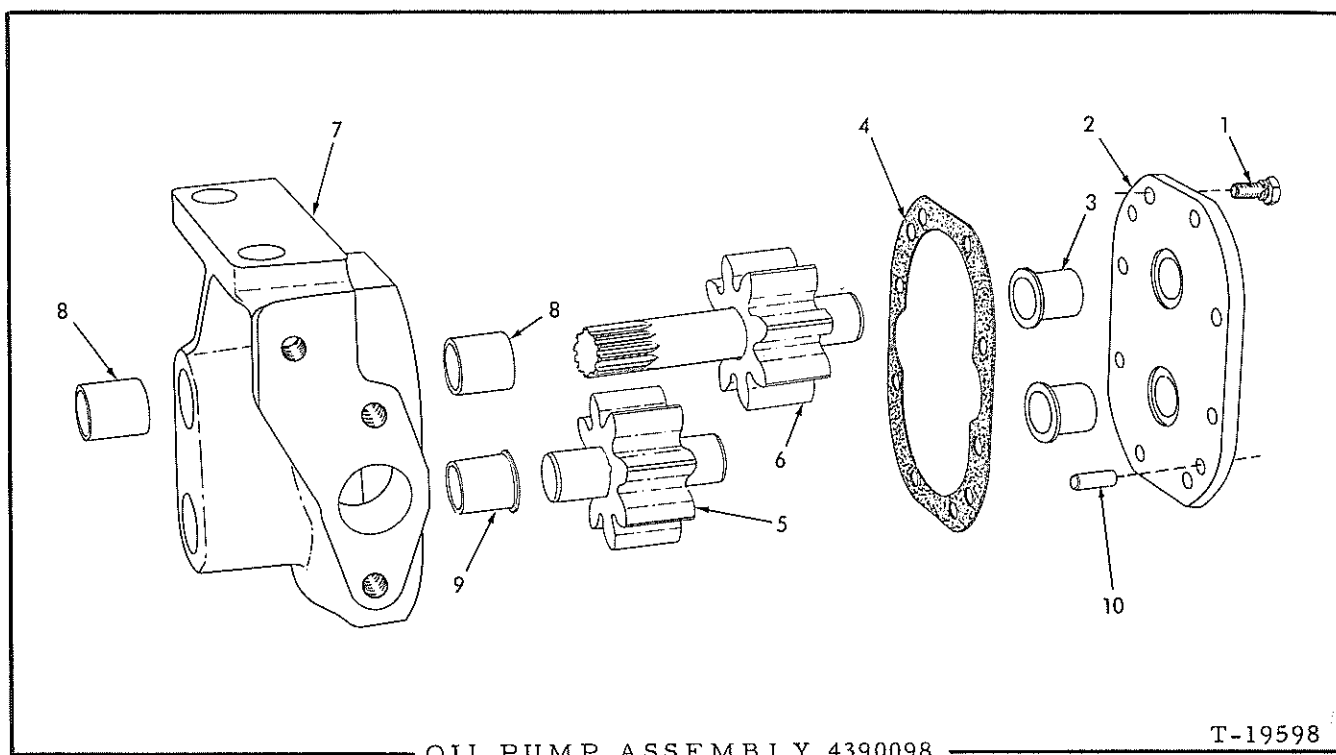


OIL PUMP ASSEMBLY 4390252

T-19597

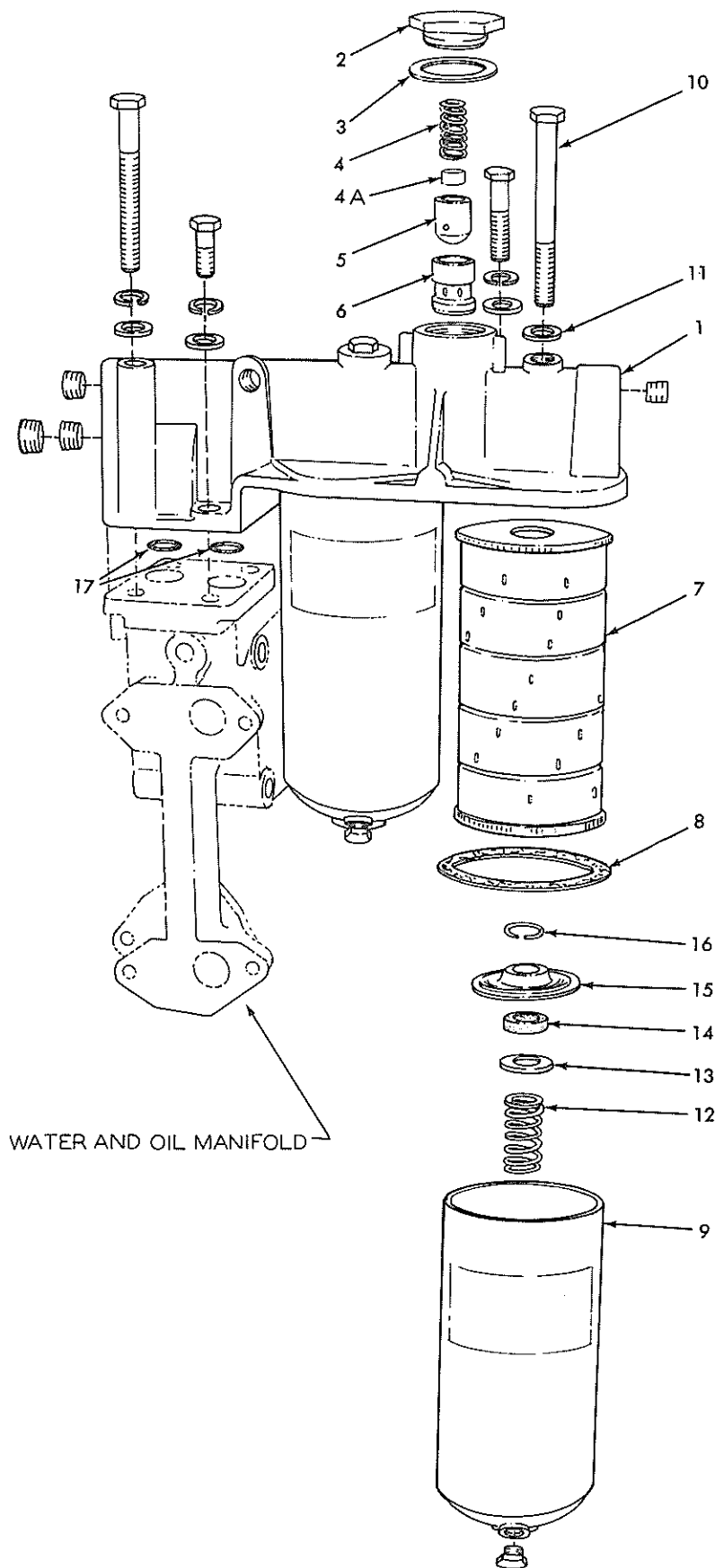
USAGE: See page 35

ITEM	PART NO.	QTY.	DESCRIPTION
1	4386088	1	GEAR, driving
	915751	1	PIN, spring, 3/16" x 1-1/2"
	910224	1	KEY, #6 woodruff, 5/32" x 5/8"
2	923408	8	CAPSCREW, pump cover (Includes lockwasher)
3	4386077	1	COVER ASSEMBLY (Includes items 4 and 5)
4	4377038	1	BUSHING, pump cover (flanged)
5	4371270	1	BUSHING, pump cover (plain)
6	4386083	1	GASKET, cover
7	4379415	1	SHAFT AND GEAR ASSEMBLY, lower
8	4390067	1	SHAFT AND GEAR ASSEMBLY, upper
9	4390064	1	BODY ASSEMBLY (Includes items 10 thru 12)
10	4371270	2	BUSHING, pump body (plain)
11	4377039	1	BUSHING, pump body (flanged)
12	917555	2	PIN, dowel, pump body



USAGE: See page 35

ITEM	PART NO.	QTY.	DESCRIPTION
1	923408	8	CAPSCREW, pump cover
2	4377050	1	COVER ASSEMBLY (Includes item 3)
3	4377039	2	BUSHING, pump cover
4	4371300	1	GASKET, pump cover
5	4377054	1	SHAFT AND GEAR ASSEMBLY, lower
6	4379610	1	SHAFT AND GEAR ASSEMBLY, upper
7	4390097	1	BODY ASSEMBLY (Includes items 8 thru 10)
8	4371270	2	BUSHING, pump body (plain)
9	4377039	1	BUSHING, pump body (flanged)
10	917555	2	PIN, dowel, pump body



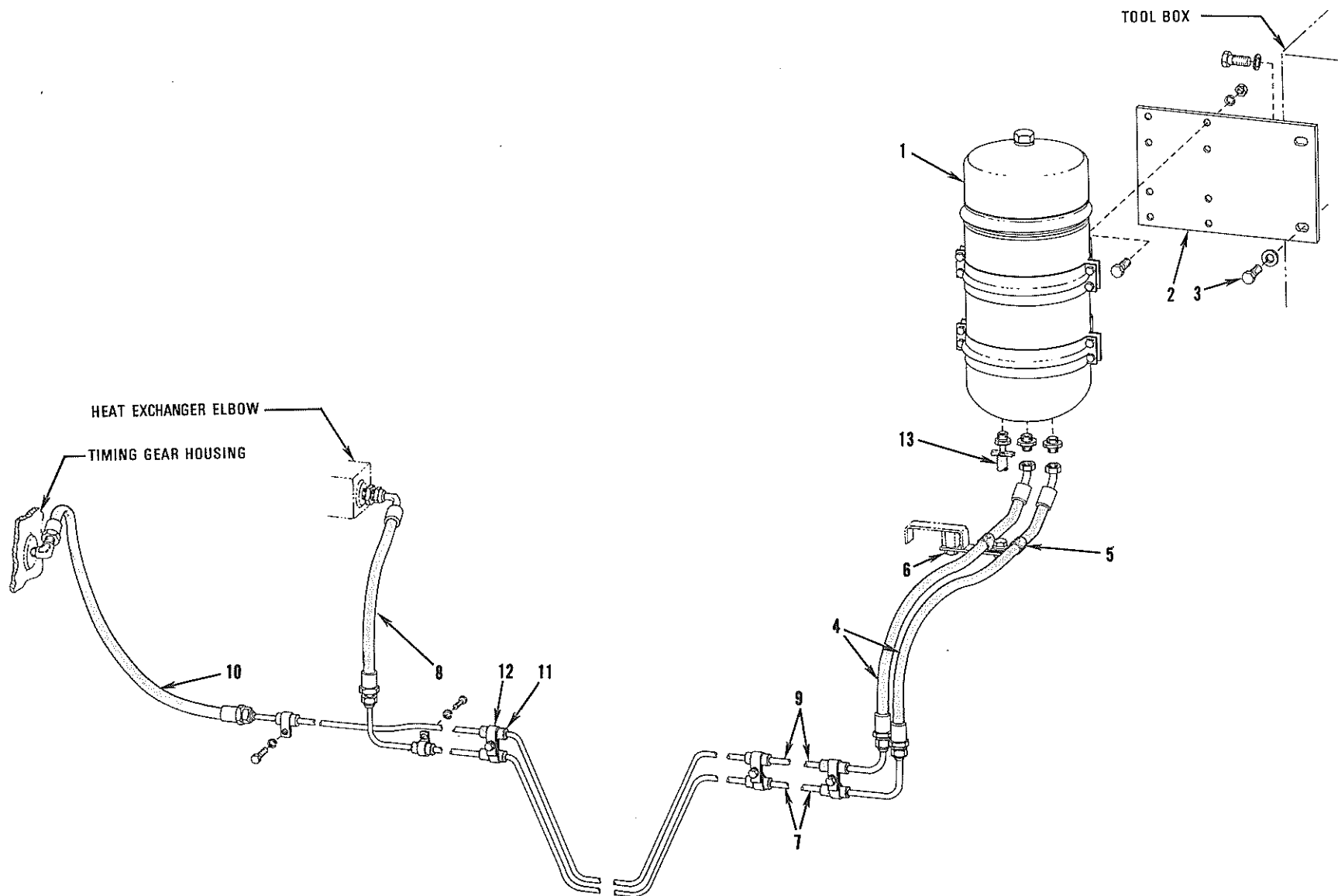
OIL FILTER (Full-flow type)

T-70444

OIL FILTER
(Full-flow type)

ITEM	PART NO.	QTY.	DESCRIPTION
1	4391146	1	HEAD ASSEMBLY (Includes items 2 thru 6; also PLUGS indented below)
	918888	3	PLUG, pipe, hex-socket, 1"
	918697	1	PLUG, pipe, hex-socket, 1-1/4"
	915987	2	CAPSCREW, 1/2"NC x 1-1/2"
	916317	2	CAPSCREW, 1/2"NC x 2-3/4"
	916323	2	CAPSCREW, 1/2"NC x 5-1/2"
	912333	6	WASHER, plain
	904208	6	LOCKWASHER, 1/2"
2	4388810	1	CAP, by-pass valve
3	4388848	1	GASKET, by-pass valve cap
4	4335666	1	SPRING, by-pass valve
4A	4391038	1	SPACER, by-pass valve
5	4373613	1	PISTON, by-pass valve
6	4388809	1	SLEEVE, by-pass valve piston
7	4371021	2	ELEMENT KIT (Includes item 8)
8	4372325	2	GASKET, filter body
9	4339021	2	BODY
	918951	2	PLUG, pipe, hex-hd., 3/8"NPT
10	4388836	2	CAPSCREW, body retaining
11	4376749	2	WASHER, sealing, body retaining capscREW
12	4379268	2	SPRING, element
13	4053410	2	WASHER, element seal
14	4053409	2	SEAL, element
15	4055971	2	ADAPTOR, element
16	4379269	2	RING, snap
17	4255631	2	O-RING, filter to manifold

NOTE: See PAINTING AND MARKING for instruction transfer applied to filter



OIL FILTER (By-pass type)

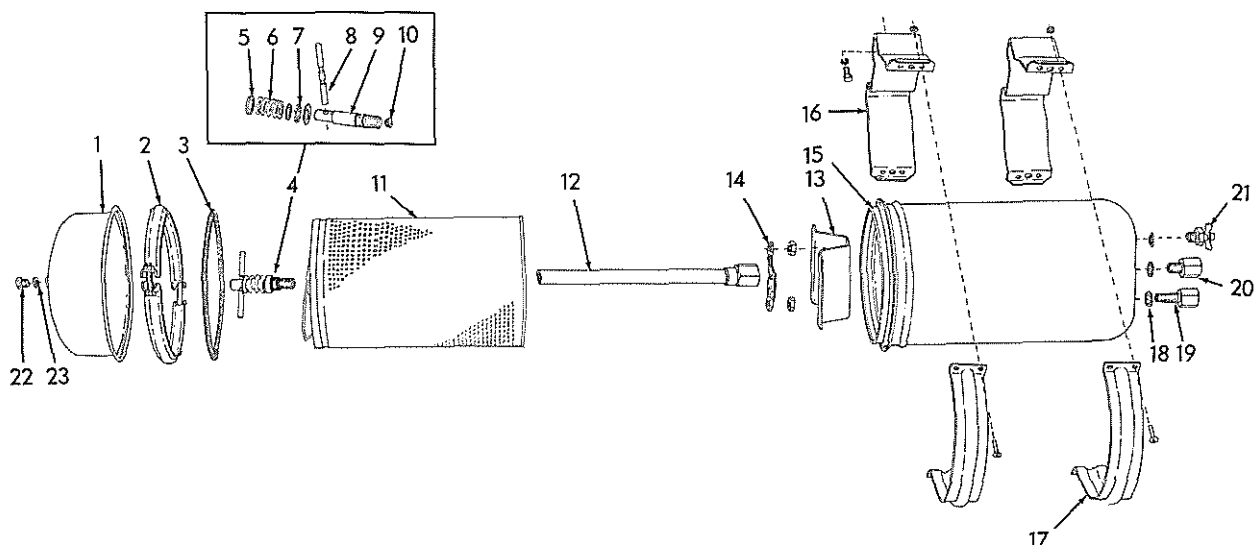
T-75075

OIL FILTER
(By-pass type)

USAGE: Supplements engine-mounted full-flow oil filter

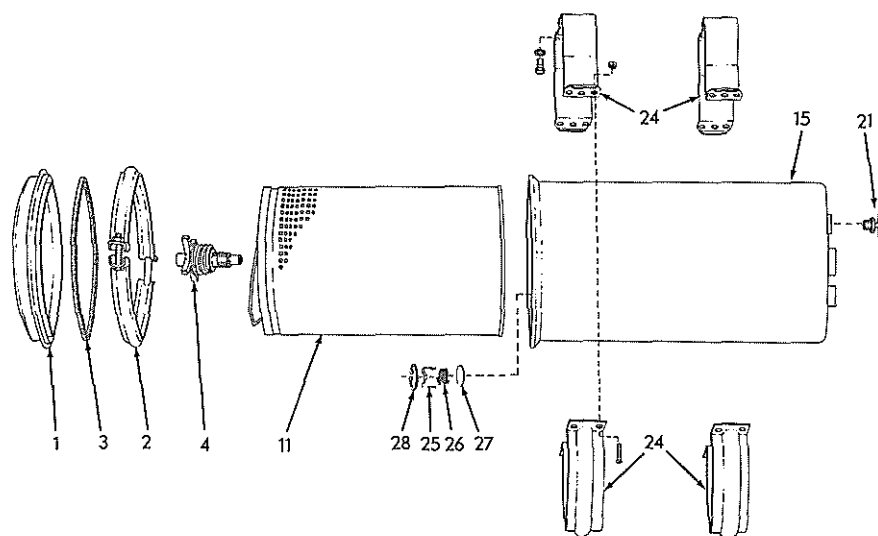
ITEM	PART NO.	QTY.	DESCRIPTION	
1	4390593	1	FILTER ASSEMBLY (See page 44 for parts)	
	914392	8	CAPSCREW, 5/16"NC x 1"	} Not for units with dozer hydraulics
	904205	8	LOCKWASHER, 5/16"	
	911025	8	NUT, 5/16"NC	} For units with dozer hydraulics
	916277	8	CAPSCREW, 5/16"NC x 5/8"	
	904205	8	LOCKWASHER, 5/16"	
2	665949	1	BRACKET, mounting	} Not used on units equipped with dozer hydraulics
3	915987	3	CAPSCREW, 1/2"NC x 1-1/2"	
	064531	3	WASHER, plain	
	904208	3	LOCKWASHER, 1/2"	
	911028	3	NUT, 1/2"NC	
4	667720	2	HOSE, rear (See HOSE PARTS)	
	919128	2	CONNECTOR, flare type, 1/2" tube, 1/2"NPT male	
5	644713	2	CLIP, rear hose	
	916310	1	CAPSCREW, 1/2"NC x 1"	
	910244	1	WASHER, plain, SAE std., 1/2"	
	904208	1	LOCKWASHER 1/2"	
	911028	1	NUT, 1/2"NC	
6	662995	1	STRIP, supporting, rear hose	
	916310	1	CAPSCREW, 1/2"NC x 1"	
	904208	1	LOCKWASHER, 1/2"	
7	667717	1	TUBE ASSEMBLY, oil supply (Includes nuts)	
8	667719	1	HOSE, oil supply, line, front (See HOSE PARTS)	
	919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male	
9	667716	1	TUBE ASSEMBLY, oil return (Includes nuts)	
10	667718	1	HOSE, oil return line, front (See HOSE PARTS)	
	919206	1	ELBOW, flare type, 1/2" tube, 3/8"NPT male	
11	093752	8	BOOT, tube protecting (rubber)	
12	097534	8	CLIP, tube supporting	
	915408	2	CAPSCREW, 3/8"NC x 3/4"	
	916271	3	CAPSCREW, 3/8"NC x 1"	
	904206	5	LOCKWASHER, 3/8"	
	911115	2	WASHER, plain, SAE std., 3/8"	
	911993	6	WASHER, plain	
13	667676	1	HOSE, oil drain	

NOTE: See PAINTING AND MARKING for instruction transfers applied to filter.



LUBER-FINER DESIGN

T-74660



FLEETGUARD DESIGN

T-76480

OIL FILTER (By-pass type)

USAGE: See page 13

NOTE: This Filter Assembly is available in two designs, "Fleetguard" and "Luber-Finer". Check which is applicable to your unit and order service parts accordingly.

*Luber-Finer Design
**Fleetguard Design

ITEM	PART NO.	QTY.	DESCRIPTION
-	4390593-4	2	FILTER ASSY. (Includes items 1 thru 23)
-	4390593-4	2	FILTER ASSY. (Includes items 1 thru 4, 11, 15, 21, 24 thru 28)

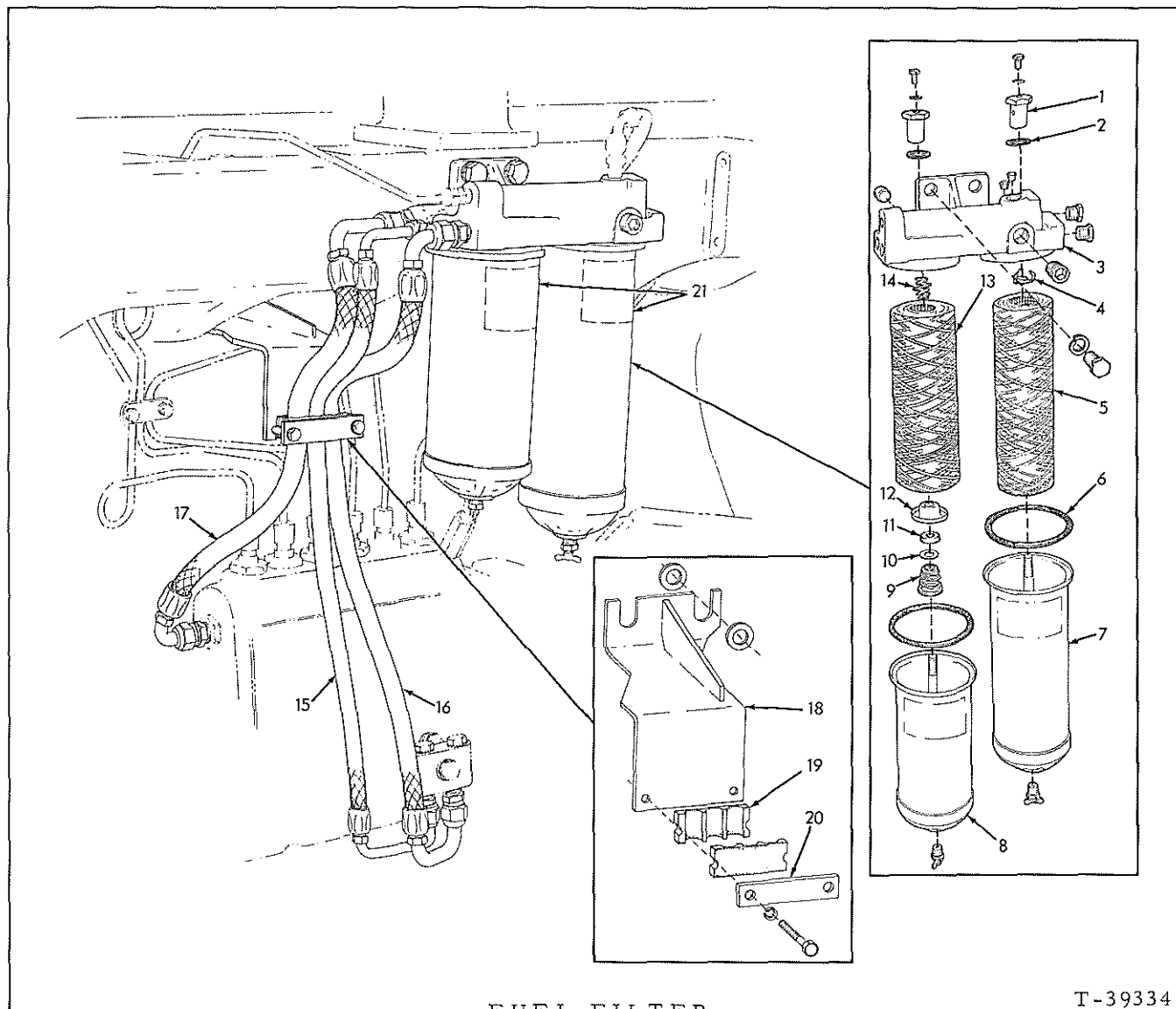
NOTE: Quantities indicated are for one (1) filter only

(Continued)

Replaces page 44 in HD-21 Series B parts catalog 0664645-9
Printed in U. S. A.

OIL FILTER (By-pass type)(Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	{ 4059262-8	1 -	COVER
	4059813-8	- 1	COVER
2	{ 0630540-3	1 -	RING ASSY. (Includes nut and bolt)
	4059814-6	- 1	COUPLING ASSY. (Includes hardware. Serviced only as a unit)
3	{ 0082449-0	1 -	GASKET
	0926772-5	- 1	GASKET
4	{ 4059266-9	1 -	HOLD-DOWN ASSY. (Includes items 5 thru 10)
	4060691-5	- 1	SUPPORT ASSY. (Includes O-ring. Serviced only as a unit)
5	0082489-6	3 -	WASHER
6	0082490-4	1 -	SPRING
7	0082487-0	1 -	SEAL
8	0082488-8	1 -	HANDLE
9	-----	1 -	STUD (Not serviced separately)
10	4059265-1	1 -	PLUG
11	4059343-6	1 1	ELEMENT
12	4059264-4	1 -	TUBE ASSY. (Includes nut)
13	0096816-4	1 -	SUPPORT
	0911049-5	2 -	NUT, jam, 5/8"NF
14	0096815-6	1 -	RETAINER
15	{ -----	1 -	HOUSING (Not serviced separately)
	4059809-6	- 1	SHELL
16	0082444-1	2 -	BRACKET
17	0082443-3	2 -	BAND
	0915406-3	8 -	CAPSCREW, 1/4"NC x 3/4"
	0911024-8	8 -	NUT, 1/4"NC
18	0063891-6	3 -	GASKET
19	0063890-8	1 -	VALVE ASSY. (Includes 1 spring, 1 ring, 1 cup. Serviced only as a unit)
20	0080758-6	1 -	VALVE ASSY. (Includes 1 spring, 1 ring, 1 cup, Serviced only as a unit)
21	{ 0094167-4	1 -	COCK
	4060693-1	- 1	COCK
22	0084897-8	1 -	PLUG
23	0084899-4	1 -	WASHER
24	4059817-9	- 2	BRACKET ASSY. (2-piece, includes hardware. Serviced only as a unit)
25	4059810-4	- 1	CAGE
26	4059811-2	- 1	SPRING
27	4059812-0	- 1	DISC
28	4253555-9	- 1	RING



FUEL FILTER

T-39334

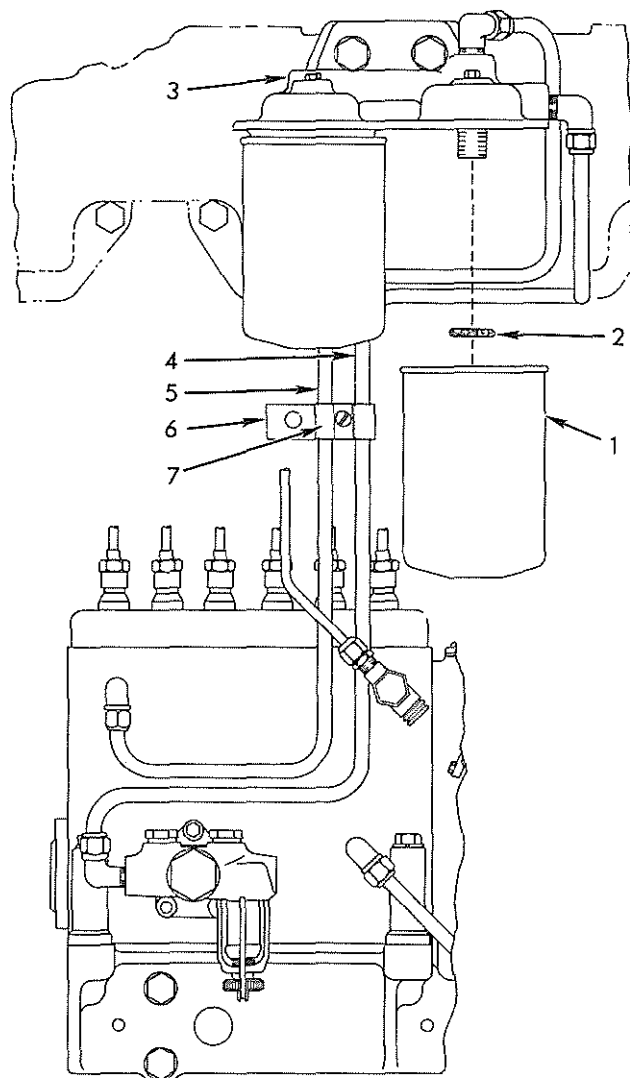
USAGE: Engines prior to Serial No. 21-11088

ITEM	PART NO.	QTY.	DESCRIPTION
1	4389113-4	2	NUT, shell retaining
	0919288-1	2	CAPSCREW, 1/4"NC x 3/8"
	0914686-2	2	WASHER, copper
			} Air bleed
2	4051484-6	2	GASKET, shell retaining nut
3	4389051-6	1	HEAD ASSY. (Includes PLUGS indented below)
	0919134-7	2	PLUG, pipe, hex-hd., 1/8"NPT
	0920333-2	2	PLUG, pipe, hex-hd., 3/8"NPT
	0918887-1	2	PLUG, pipe, hex-socket, 3/8"NPT
	0916311-4	2	CAPSCREW, 1/2"NC x 1-1/4"
	0904208-6	2	LOCKWASHER, 1/2"
4	4051485-3	1	GUIDE, centering, first stage filter element
5	4055565-8	1	ELEMENT KIT, first stage filter (Includes item 6)

(Continued)

FUEL FILTER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
6	4040013	2	GASKET, filter shell
7	4389172	1	SHELL ASSEMBLY, first stage filter (Includes items 1, 2, 4, 5, 6 and COCK 912415)
	912415	1	COCK, drain, 1/4"NPT
8	4388109	1	SHELL ASSEMBLY, second stage filter (Includes items 1, 2, 6, 9 thru 14 and COCK 912415)
	912415	1	COCK, drain, 1/4"NPT
9	4052174	1	SPRING, second stage filter
10	-----	1	WASHER, element plate gasket (Not serviced separately)
11	-----	1	GASKET, element plate (Not serviced separately)
12	4052173	1	PLATE, element seating, second stage filter
13	4056632	1	ELEMENT KIT, second stage filter (Includes items 6, 10 and 11)
14	4055913	1	GUIDE, element centering, second stage filter
15	4386771	1	HOSE ASSEMBLY, transfer pump to second stage filter (See HOSE PARTS)
	919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
	919172	1	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male (At filter end)
16	4386772	1	HOSE ASSEMBLY, first stage filter to transfer pump (See HOSE PARTS)
	919205	1	CONNECTOR, flare type, 1/2" tube, 1/4"NPT male
	919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
17	4386774	1	HOSE ASSEMBLY, second stage filter to injection pump (See HOSE PARTS)
	919063	2	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
18	4387129	1	BRACKET, hose supporting
	910244	4	WASHER, plain, SAE std., 1/2"
19	4377253	2	INSERT, hose clamping (rubber)
20	4387196	1	CLAMP, hose supporting
	916286	2	CAPSCREW, 1/4"NC x 1-1/2"
	904204	2	LOCKWASHER, 1/4"
21	-----	-	TRANSFER (See PAINTING AND MARKING)



FUEL FILTER

T-75825

USAGE: Engines Serial No. 21-11088 and up

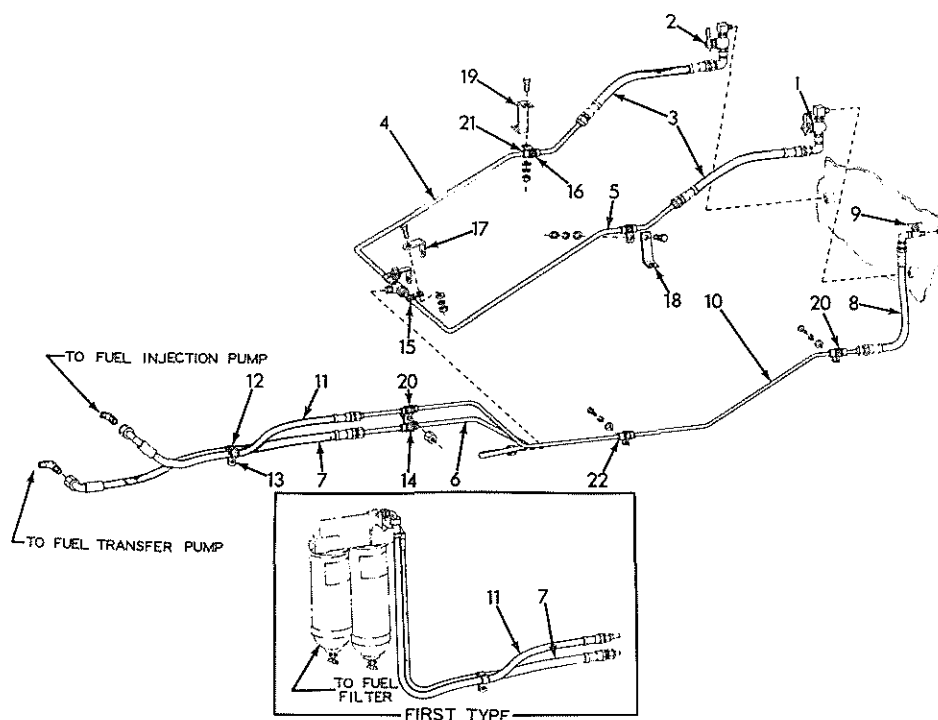
ITEM PART NO. QTY. DESCRIPTION

1	4025230	2	ELEMENT, filter (Includes item 2)
2	923934	2	O-RING
3	4392498	1	BASE ASSY., filter (Includes Plug and Inserts not serviced separately; and PLUGS indented below)
	919134	2	PLUG, pipe, hex-hd., hd., 1/8"NPT
	919230	2	CAPSCREW, 1/2"NC x 1-3/8"
	904208	2	LOCKWASHER, 1/2"
	912007	2	WASHER, plain, 1/2"
4	4392482	1	TUBE ASSY. (Includes SLEEVES and NUTS)
	917810	2	NUT, Imperial, 3/8" tube
	917807	2	SLEEVE, Imperial, 3/8" tube (rubber)
	919005	1	ELBOW, Imperial, 3/8" tube, 3/8"PT (at filter base)
	920280	1	ELBOW, Imperial, 3/8" tube, 1/4"PT (at transfer pump)

(Continued)

FUEL FILTER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
5	4392486	1	TUBE ASSY. (Includes SLEEVE and NUTS)
	917810	2	NUT, Imperial, 3/8" tube
	917807	2	SLEEVE, Imperial, 3/8" tube (rubber)
	919005	1	ELBOW, Imperial, 3/8" tube, 3/8"PT (at filter base)
	920280	1	ELBOW, Imperial, 3/8" tube, 1/4"PT (at fuel pump)
6	4392801	1	SUPPORT, clip
7	4251644	1	CLIP
	912226	1	SCREW, fil. hd., 1/4"NC x 5/8"
	904204	1	LOCKWASHER, 1/4"
	910880	1	NUT, 1/4"NC



FUEL LINES

T-75076

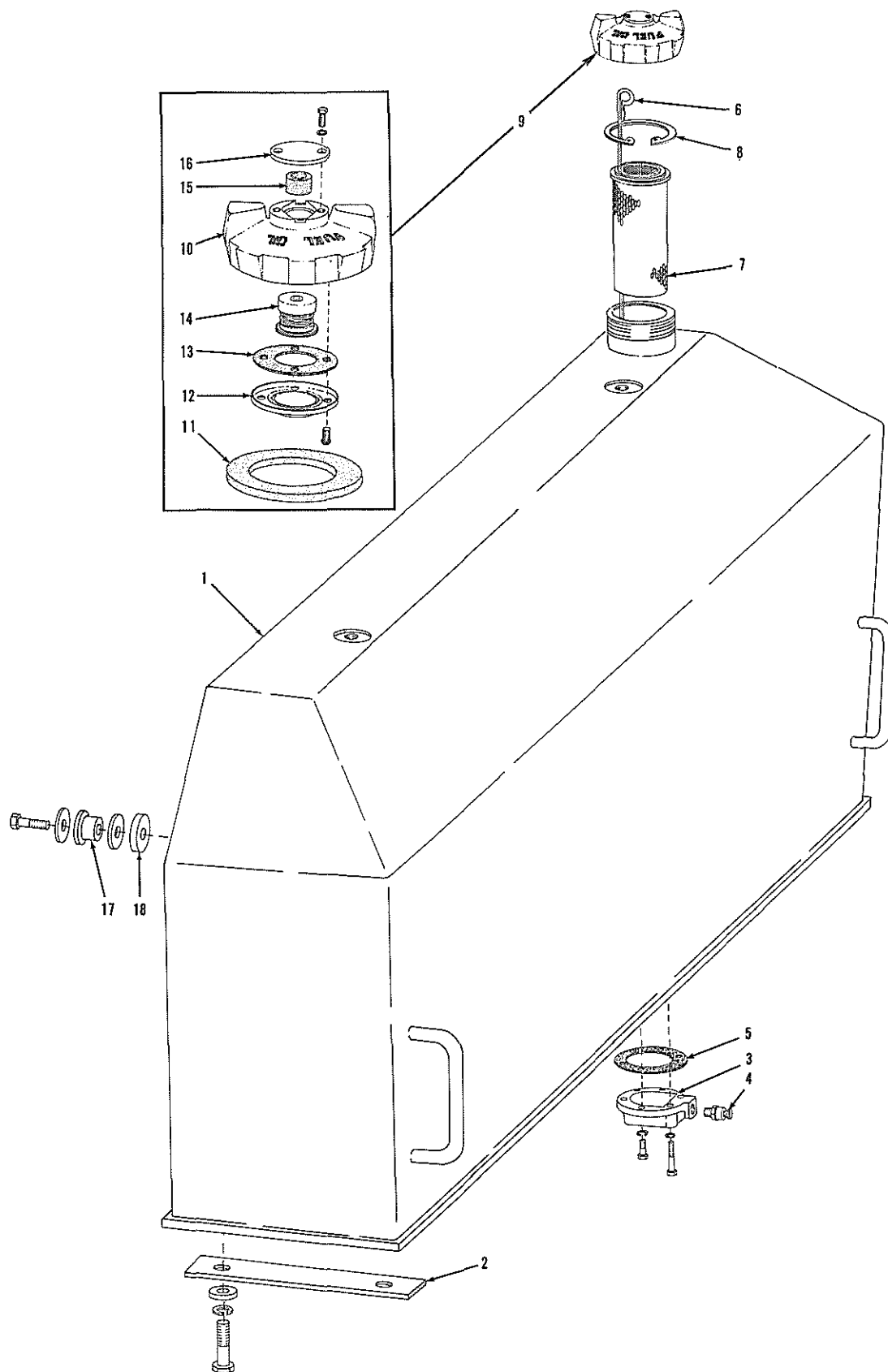
ITEM	PART NO.	QTY.	DESCRIPTION
1	0092727-7	2	COCK, fuel shut-off (Includes item 2)
	0915389-1	2	ELBOW, street, 90°, 3/8"NPT
2	0082189-2	2	HANDLE, fuel shut-off cock
3	0650967-3	2	HOSE, fuel supply, rear (See HOSE PARTS)
	0919206-3	2	ELBOW, flare type, 1/2" tube, 3/8"NPT male
4	0669177-8	1	TUBE ASSY., fuel supply, right rear (Includes nuts)
5	0664203-7	1	TUBE ASSY., fuel supply, left rear (Includes nuts)
6	0663995-9	1	TUBE ASSY., fuel supply, front (Includes nuts)
	0921472-7	1	TEE, union, flare type, 1/2" tube
7	0652026-6	1	HOSE, fuel supply, front (See HOSE PARTS)
	0919063-8	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT
	0674771-1	1	HOSE, fuel supply, front (See HOSE PARTS)
	0922872-7	1	ELBOW, flare type, 90°, 1/2" tube, 1/4"NPT male
8	0651999-5	1	HOSE, fuel return, rear (See HOSE PARTS)
	0921852-0	1	ELBOW, flare type, 90°, 3/8" tube, 1/4"NPT male
9	0914378-5	1	VALVE, shut-off, fuel return line
10	0663994-2	1	TUBE ASSY., fuel return (Includes nuts)
11	0652025-8	1	HOSE, fuel return, front (See HOSE PARTS)
	0919062-0	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
	0674770-3	1	HOSE, fuel return, front (See HOSE PARTS)
	0919135-4	1	ELBOW, flare type, 90°, 3/8" tube, 9/16"NF male end
12	0622992-6	1	CLIP, front fuel supply hose
13	0094467-8	1	CLIP, front fuel return hose

(Continued)

FUEL LINES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
14	097534	1	CLIP, front fuel supply tube
	916269	1	CAPSCREW, 3/8"NC x 7/8"
	904206	1	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"
15	624508	2	CLIP, rear fuel supply tubes
	916310	2	CAPSCREW, 1/2"NC x 1"
	910244	2	WASHER, plain, SAE std., 1/2"
	904208	2	LOCKWASHER, 1/2"
	911028	2	NUT, 1/2"NC
16	650271	2	CLIP, rear fuel supply tubes
	916310	2	CAPSCREW, 1/2"NC x 1"
	910244	2	WASHER, plain, SAE std., 1/2"
	904208	2	LOCKWASHER, 1/2"
	911028	2	NUT 1/2"NC
17	664232	2	ANGLE, tube supporting
18	653989	1	ANGLE, tube supporting
19	660748	1	ANGLE, tube supporting
20	055234	3	CLIP, fuel return tube
	916269	2	CAPSCREW, 3/8"NC x 7/8"
	904206	2	LOCKWASHER, 3/8"
	911115	2	WASHER, plain, SAE std., 3/8"
21	093752	3	BOOT, tube protecting (1/2" tube)
22	093751	3	BOOT, tube protecting (3/8" tube)

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

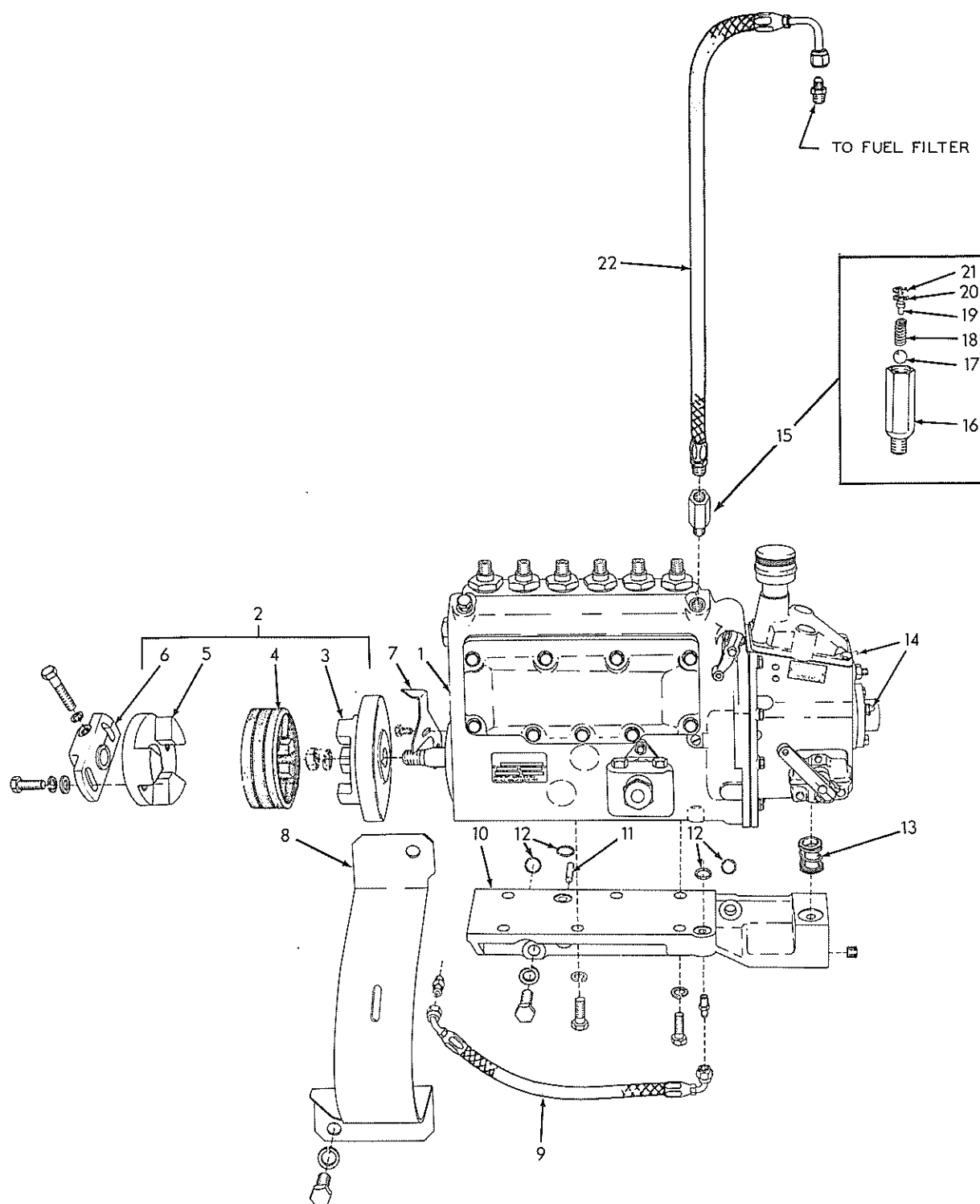


FUEL TANK

T-75077

FUEL TANK

ITEM	PART NO.	QTY.	DESCRIPTION
1	664142	1	TANK, fuel
	926381	8	CAPSCREW, Nylok, 3/4"NC x 2-3/4"
	904369	8	LOCKWASHER, 3/4"
	061689	8	WASHER, plain
2	664166	4	PAD, tank mounting (fabric)
3	662132	1	COVER, fuel tank drain
	919224	4	CAPSCREW, 3/8"NC x 1-1/8"
	916274	2	CAPSCREW, 3/8"NC x 2-1/4"
	904206	6	LOCKWASHER, 3/8"
4	633519	1	COCK, drain
5	656227	1	GASKET, drain cover
6	664075	1	GAUGE, fuel level
7	650509	1	STRAINER, fuel filler
8	654840	1	RING, snap, fuel strainer
9	668252	1	CAP ASSEMBLY, fuel tank (Consists of items 10 thru 16)
10	-----	1	CAP only (Not serviced separately)
11	668263	1	GASKET, cap
12	668806	1	SEAT, relief valve
	926699	4	SCREW, fil.-hd., brass, #10-24NC x 3/8"
13	668804	1	GASKET, valve seat
14	668805	1	VALVE ASSEMBLY, relief (Serviced only as a unit)
15	664867	1	ELEMENT, air filter
16	668262	1	COVER, tank cap
	921181	2	SCREW ASSEMBLY, #10-24NC x 1/2" (Includes lockwasher)
17	642441	4	SNUBBER, vibration
	916422	4	CAPSCREW, 1/2"NF x 2-3/4"
	092163	8	WASHER, plain
18	061528	4	BOSS, spacing



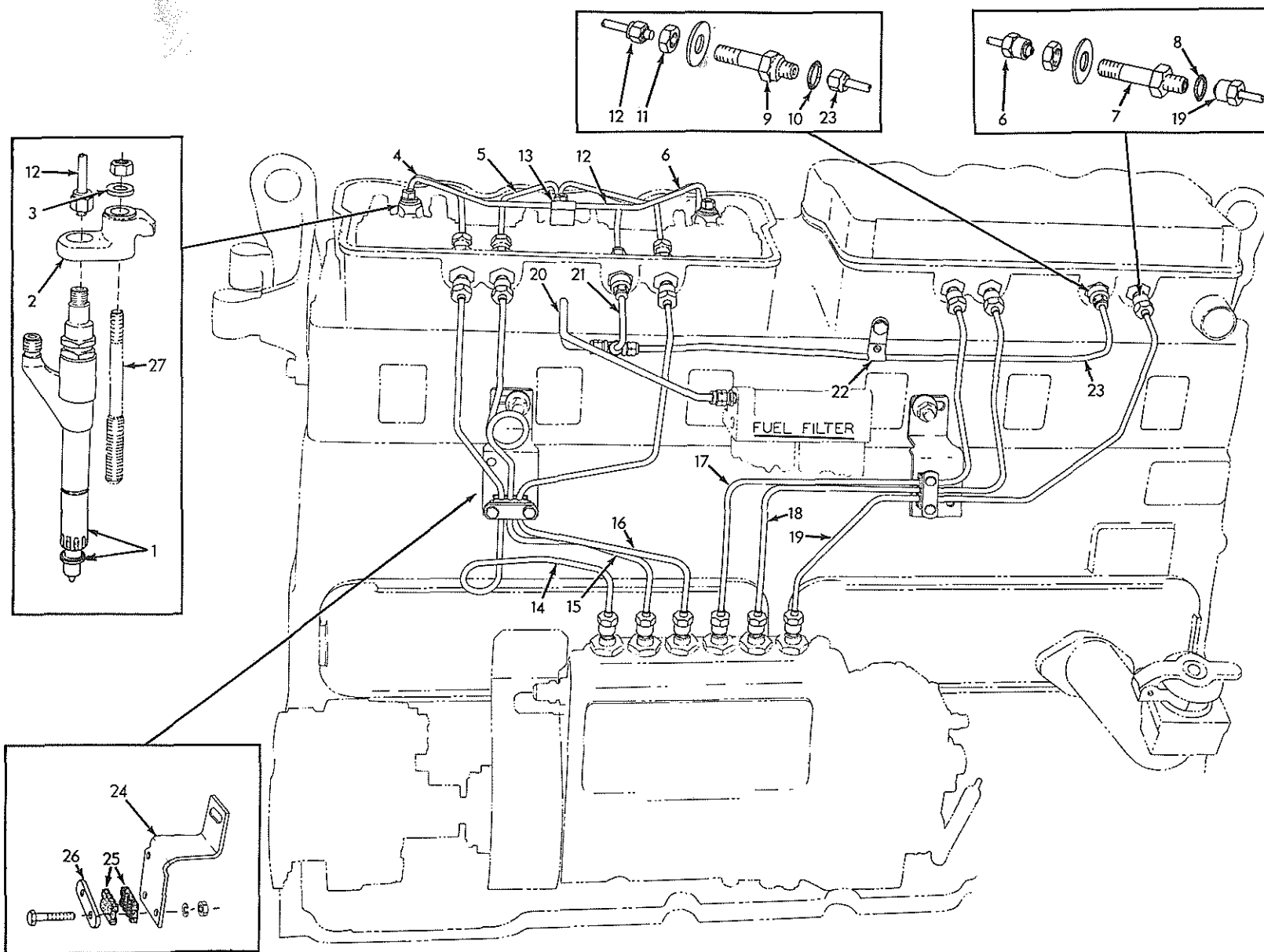
FUEL INJECTION PUMP

T-37181

FUEL INJECTION PUMP

usage prior to S/N 21-11088

ITEM	PART NO.	QTY.	DESCRIPTION
1	4390709	1	PUMP ASSEMBLY, injection. (Includes items 2 and 7)
	919228	4	CAPSCREW, 7/16"NC x 1-1/8"
	918801	2	CAPSCREW, 7/16"NC x 1-5/8"
	904207	6	LOCKWASHER, 7/16"
2	4390054	1	COUPLING ASSEMBLY, pump drive (Consists of items 3 thru 6)
3	4059012	1	HUB, coupling
	905845	1	KEY, #A woodruff, 1/4" x 7/8"
4	4059013	1	SPIDER, coupling (rubber)
5	4059014	1	FLANGE, coupling
6	4390055	1	CLAMP, coupling
	916385	1	CAPSCREW, 3/8"NF x 2" (clamping)
	916271	2	CAPSCREW, 3/8"NC x 1" (attaching)
	904206	3	LOCKWASHER, 3/8"
	4059015	2	WASHER, plain
7	4379077	1	POINTER, timing
8	4379076	1	GUARD, pump flywheel
	916310	1	CAPSCREW, 1/2"NC x 1"
	904208	1	LOCKWASHER, 1/2"
9	4386773	1	HOSE ASSEMBLY, oil supply (See HOSE PARTS)
	919778	1	CONNECTOR, flare type, 5/16" tube, 1/4"NPT male
	919766	1	CONNECTOR, flare type, 5/16" tube, 1/8"NPT male
10	4376529	1	BRACKET, pump mounting
	918850	1	PLUG, pipe, hex-socket, 1/4"NPT
	916311	4	CAPSCREW, 1/2"NC x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
11	4253286	2	PIN, dowel, mounting bracket
12	4255665	4	O-RING, mounting bracket
13	4379038	1	COUPLING, oil drain, pump to bracket
14	4355843	3	SEAL, anti-tampering
15	4337015	1	VALVE ASSEMBLY, pressure relief (Consists of items 16 thru 21)
16	-----	1	BODY, relief valve (Not serviced separately)
17	4337022	1	BALL, relief valve
18	4337023	1	SPRING, relief valve
19	4337019	1	STOP, relief valve
20	4255017	1	E-RING, relief valve stop
21	4255020	1	RING, snap, relief valve
22	4386770	1	HOSE ASSEMBLY, fuel return (See HOSE PARTS)
	919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male



INJECTION NOZZLES AND LINES

T-39341

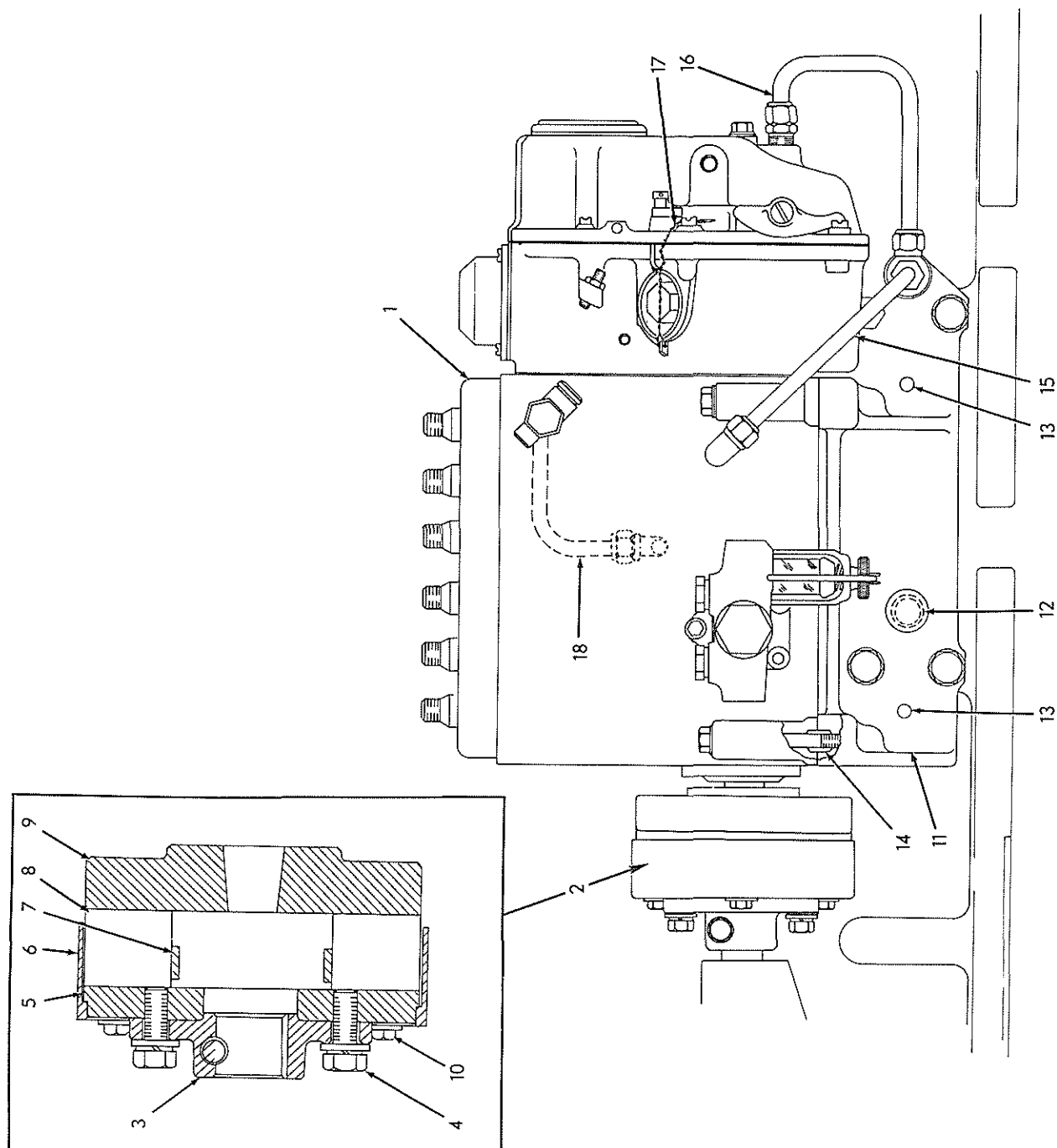
INJECTION NOZZLES AND LINES

ITEM	PART NO.	QTY.	DESCRIPTION
			<i>usage prior to 5/11 21-11088</i>
1	4392058 <i>121</i> <i>43913011</i>	6	HOLDER ASSEMBLY, nozzle (See page 57 for parts)
2	4387385	6	CLAMP, nozzle holder
	4115287	6	NUT, 3/8"NF
3	4020145	6	WASHER, nozzle holder clamp
4	4390093	2	TUBE ASSEMBLY, fuel injection, internal(#1 and #4 cyl.)
5	4390094	2	TUBE ASSEMBLY, fuel injection, internal(#2 and #5 cyl.)
6	4390095	2	TUBE ASSEMBLY, fuel injection, internal(#3 and #6 cyl.)
7	4386601	6	CONNECTOR, injection line
	919303	6	NUT, jam, 9/16"NF
	914659	6	WASHER, plain, SAE std., 9/16 "
8	923645	6	□O-RING, injection line connector
9	4386602	2	CONNECTOR, fuel return line
10	923645	2	□O-RING, return line connector
11	4377267	2	NUT, return line connector (1/2"-24)
	914659	2	WASHER, plain, SAE std., 9/16"
12	4386433	2	MANIFOLD ASSEMBLY, fuel return (Includes NUTS AND SLEEVES indented below)
	917809	8	NUT, Imperial, 1/4" tube
	917806	8	□SLEEVE, Imperial, 1/4" tube (rubber)
13	4255179	2	CLIP, manifold supporting
14	4390085	1	TUBE ASSEMBLY, fuel injection, external(#1 cyl.)
15	4390086	1	TUBE ASSEMBLY, fuel injection, external(#2 cyl.)
16	4390087	1	TUBE ASSEMBLY, fuel injection, external(#3 cyl.)
17	4390088	1	TUBE ASSEMBLY, fuel injection, external(#4 cyl.)
18	4390089	1	TUBE ASSEMBLY, fuel injection, external(#5 cyl.)
19	4390090	1	TUBE ASSEMBLY, fuel injection, external(#6 cyl.)
20	4387301	1	TUBE ASSEMBLY, fuel retrun (Includes NUTS and SLEEVES indented below)
	917809	2	NUT, Imperial, 1/4" tube
	917806	2	SLEEVE, Imperial, 1/4" tube (rubber)
	919797	1	TEE, Imperial, 1/4" tube
	920242	1	CONNECTOR, Imperial, 1/4" tube, 1/4"NPT male
21	4377266	1	TUBE ASSEMBLY, fuel return, front (Includes NUTS and SLEEVES indented below)
	917809	2	NUT, Imperial, 1/4" tube
	917806	2	SLEEVE, Imperial, 1/4" tube (rubber)

(Continued)

INJECTION NOZZLES AND LINES (Continued)

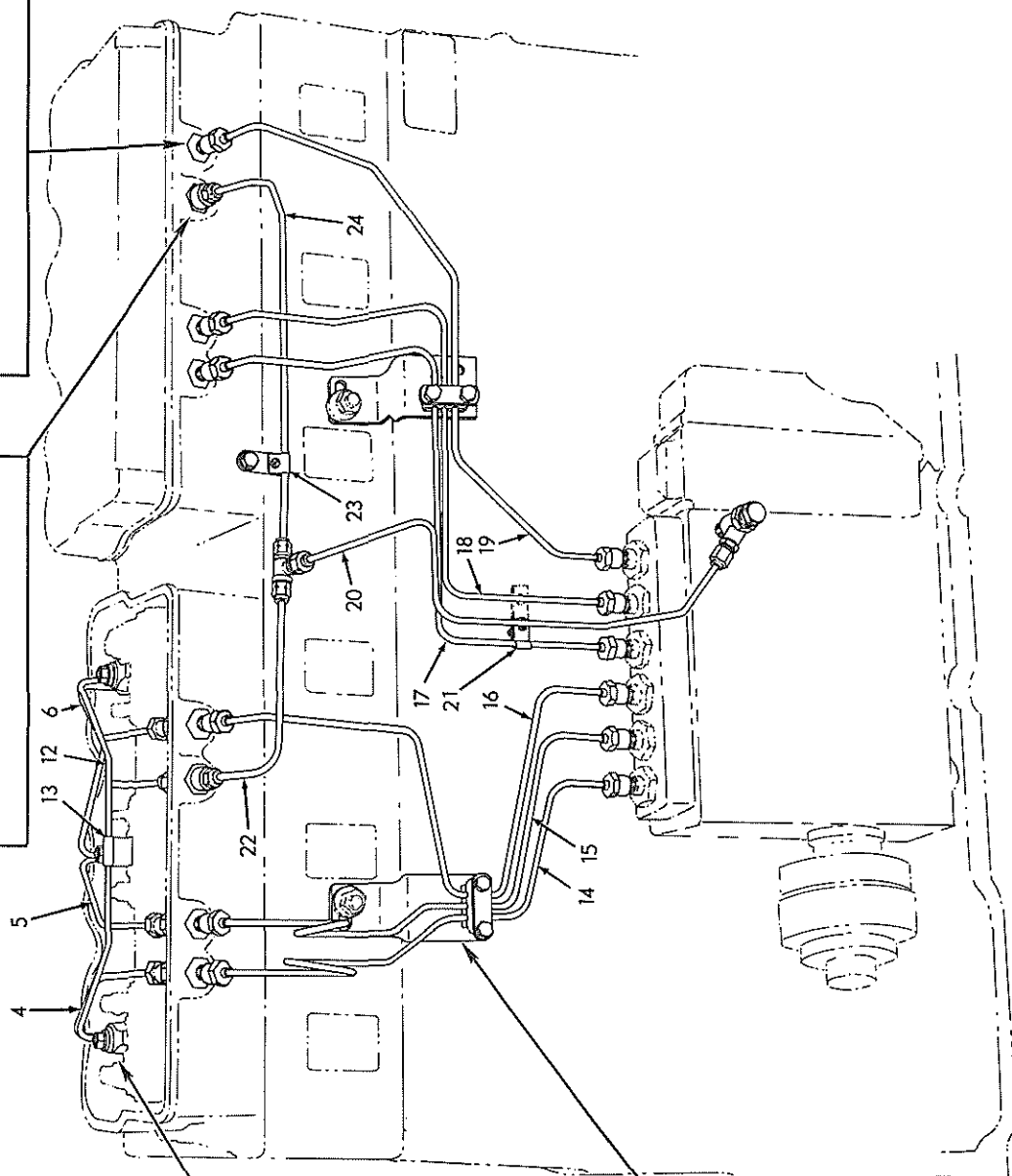
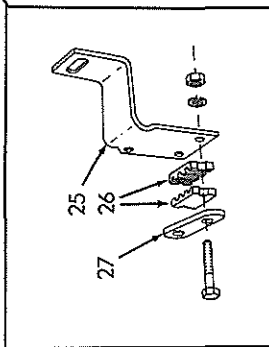
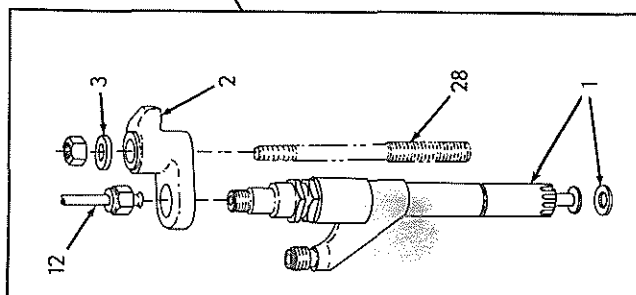
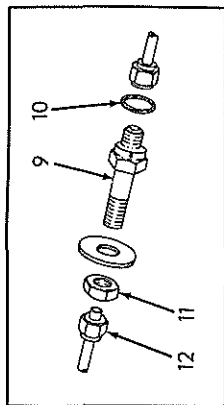
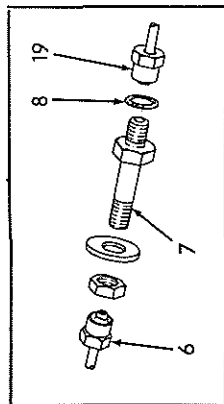
ITEM	PART NO.	QTY.	DESCRIPTION
22	4386617	1	CLIP, fuel return tube
	901171	1	SCREW, machine, #10-24NC x 3/8"
	904203	1	LOCKWASHER, #10
	901310	1	NUT, #10-24NC
	915408	1	CAPSCREW, 3/8"NC x 3/4"
	904206	1	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"
23	4379737	1	TUBE ASSEMBLY, fuel return, rear (Includes NUTS and SLEEVES indented below)
	917809	2	NUT, Imperial, 1/4" tube
	917806	2	SLEEVE, Imperial, 1/4" tube (rubber)
24	4388148	2	BRACKET, supporting, injection lines
25	4507359	4	SPACER, injection lines (rubber)
26	4507415	2	PLATE, clamping, rear injection lines
	918794	4	CAPSCREW, 1/4"NC x 1-3/8"
	904204	4	LOCKWASHER, 1/4"
	910880	4	NUT, 1/4"NC
27	-----	-	STUD, nozzle holder clamp (See VALVE OPERATING MECHANISM)



FUEL INJECTION PUMP
(Robert Bosch-Germany)

USAGE: Engines serial No. 21-11088 and up

ITEM	PART NO.	QTY.	DESCRIPTION	
1	4393050	1	PUMP ASSY., injection (Includes item 2)	
	919015	4	CAPSCREW, 3/8"NC x 3-1/2"	
	904206	4	LOCKWASHER, 3/8"	
	913544	4	WASHER, plain, 3/8"	
2	4392350	1	COUPLING (Includes items 3 thru 10)	
3	4390055	1	CLAMP, hub	
	916385	1	CAPSCREW, 3/8"NF x 2"	} Clamping
	4110730	1	LOCKWASHER, 3/8"	
4	916271	2	CAPSCREW, 3/8"NC x 1"	
	4110730	2	LOCKWASHER, 3/8"	
	4059015	2	WASHER, plain, 3/8"	
5	4060643	1	FLANGE, engine side	
6	4060644	1	COVER, flange	
7	4060645	1	INSERT	
8	4060646	6	INSERT (rubber)	
9	4060647	1	HUB, pump side	
10	916284	3	CAPSCREW, 1/4"NC x 1/2"	
	4060656	3	WASHER, plain, 1/4"	
11	4392500	1	BRACKET	
	916311	4	CAPSCREW, 1/2"NC x 1-1/4"	
	904208	4	LOCKWASHER, 1/2"	
12	4255665	2	O-RING	
13	4253286	2	PIN, dowel	
14	4392630	2	DOWEL, hollow	
15	4392494	1	TUBE ASSY. (Includes SLEEVES and NUTS)	
	917810	2	NUT, Imperial, 3/8" tube	
	917807	2	SLEEVE, Imperial, 3/8" tube (rubber)	
	920280	1	ELBOW, Imperial, 3/8" tube, 1/4"PT (at pump)	
	921841	1	TEE, service, Imperial, 3/8" tube, 1/4"PT (at bracket)	
16	4392492	1	TUBE ASSY. (Includes SLEEVES and NUTS)	
	917810	2	NUT, Imperial, 3/8" tube	
	917807	2	SLEEVE, Imperial, 3/8" tube (rubber)	
	920279	1	CONNECTOR, Imperial, 3/8" tubePT (at governor)	
17	4355843	1	SEAL, anti-tampering	
18	4392518	1	TUBE ASSY., lube oil feed (Includes SLEEVES and NUTS)	
	917810	2	NUT, Imperial, 3/8" tube	
	917807	2	SLEEVE, Imperial, 3/8" tube (rubber)	
	920790	1	ELBOW, Imperial, 3/8" tube, 1/8"PT (at pump)	
	927139	1	ELBOW, Imperial, 3/8" tube, 1/4"PT female	} at block
	913112	1	NIPPLE, pipe, hex, 1/4" x 1/4"	



T-75869

INJECTION NOZZLE LINES (Second type. Robert Bosch-Germany)

INJECTION NOZZLE LINES

(Robert Bosch-Germany)

USAGE: Engines serial No. 21-11088 and up

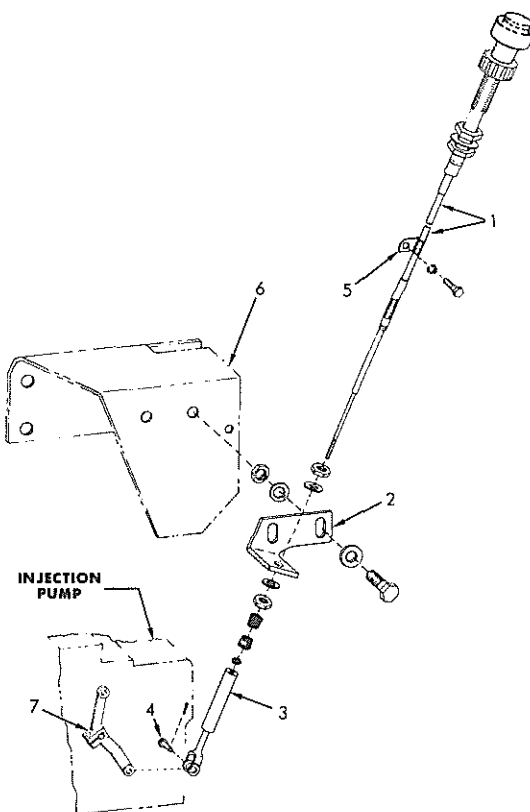
ITEM	PART NO.	QTY.	DESCRIPTION	
1	-----	6	HOLDER ASSY., nozzle (See page 57)	
2	4387385	6	CLAMP, nozzle holder	
	4115287	6	NUT, 3/8"NF	
3	4020145	6	WASHER, nozzle holder clamp	
4	4390093	2	TUBE ASSY., fuel injection, internal (#1 and #4 cyl.)	} Each includes nuts
5	4390094	2	TUBE ASSY., fuel injection, internal (#2 and #5 cyl.)	
6	4390095	2	TUBE ASSY., fuel injection, internal (#3 and #6 cyl.)	
7	4386601	6	CONNECTOR, injection line	
	919303	6	NUT, jam, 9/16"NF	
	914659	6	WASHER, plain, SAE std., 9/16"	
8	923645	6	☐ O-RING, injection line connector	
9	4386602	2	CONNECTOR, fuel return line	
10	923645	2	☐ O-RING, return line connector	
11	4377267	2	NUT, return line connector (1/2"-24)	
	914659	2	WASHER, plain, SAE std., 9/16"	
12	4386433	2	MANIFOLD ASSY., fuel return (Includes NUTS AND SLEEVES indented below)	
	917809	8	NUT, Imperial, 1/4" tube	
	4255956	8	☐ SLEEVE, Imperial, 1/4" tube (rubber)	
13	4255179	2	CLIP, manifold supporting	
14	4392384	1	TUBE ASSY., fuel injection, external (#1 cyl.)	} Each includes nuts
15	4392385	1	TUBE ASSY., fuel injection, external (#2 cyl.)	
16	4392386	1	TUBE ASSY., fuel injection, external (#3 cyl.)	
17	4392387	1	TUBE ASSY., fuel injection, external (#4 cyl.)	
18	4392388	1	TUBE ASSY., fuel injection, external (#5 cyl.)	
19	4392389	1	TUBE ASSY., fuel injection, external (#6 cyl.)	
20	4392445	1	TUBE, fuel return	
	917809	2	NUT, Imperial, 1/4" tube	
	917806	2	SLEEVE, Imperial, 1/4" tube (rubber)	
	919797	1	TEE, Imperial, 1/4" tube	
	919800	1	CONNECTOR, Imperial	
21	4361829	1	CLAMP, return tube	
	912226	1	SCREW, fil. hd., 1/4"NC x 5/8"	
	904204	1	LOCKWASHER, 1/4"	
	910880	1	NUT, 1/4"NC	
22	4392789	1	TUBE, fuel return, front	
	917809	2	NUT, Imperial, 1/4" tube	
	917806	2	SLEEVE, Imperial, 1/4" tube (rubber)	

(Continued)

56D

INJECTION NOZZLE LINES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
23	4386617	1	CLIP, fuel return tube
	901171	1	SCREW, machine, #10-24NC x 3/8"
	904203	1	LOCKWASHER, #10
	901310	1	NUT, #10-24NC
	915408	1	CAPSCREW, 3/8"NC x 3/4"
	904206	1	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"
24	4392788	1	TUBE, fuel return, rear
	917809	2	NUT, Imperial, 1/4" tube
	917806	2	SLEEVE, Imperial, 1/4" tube (rubber)
25	4388148	2	BRACKET, supporting, injection lines
26	4507359	4	SPACER, injection lines (rubber)
27	4507415	2	PLATE, clamping, rear injection lines
	918794	4	CAPSCREW, 1/4"NC x 1-3/8"
	904204	4	LOCKWASHER, 1/4"
	910880	4	NUT, 1/4"NC
28	-----	6	STUD, nozzle holder clamp (See VALVE OPERATING MECHANISM)

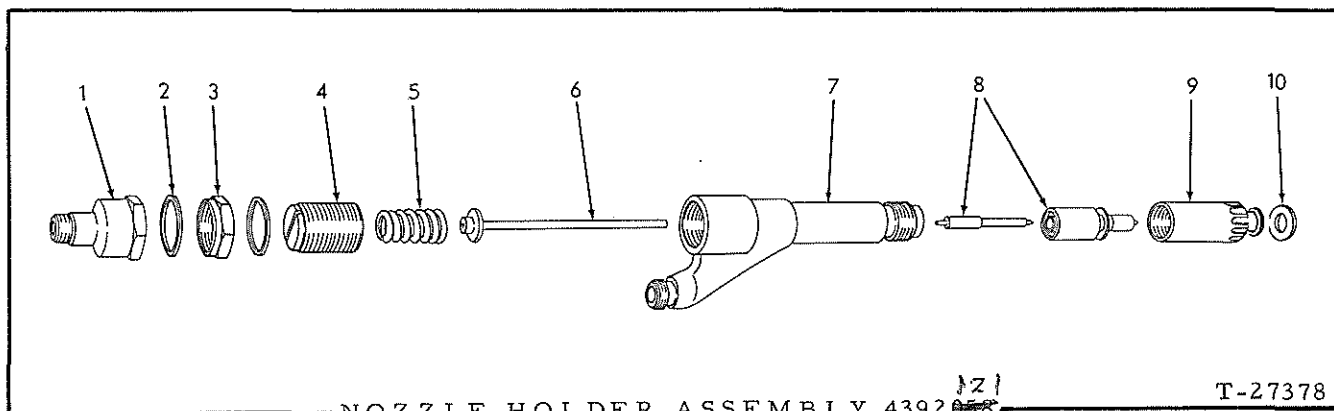


ENGINE SHUT-OFF CONTROL

T-75866

USAGE: Tractors serial No. 10S17001 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	0665458-8	1	CABLE ASSY., push-pull (Includes mounting washers and nuts)
2	0665457-6	1	ANGLE, cable supporting (Tractors prior to unit #17565 incl. #17569)
	0674754-7	1	ANGLE, cable supporting (Tractors unit #17565 and up excl. #17569)
	0916272-8	2	CAPSCREW, 3/8"NC x 1-1/4"
	0044973-6	2	WASHER, plain
	0904206-0	2	LOCKWASHER, 3/8"
3	0911026-3	2	NUT, 3/8"NC
	0196606-8	1	CLEVIS, control cable (Tractors prior to unit #17565 incl. #17569)
	0674753-9	1	ROD, shut-off (Tractors unit #17565 excl. #17569)
4	0628738-7	1	PIN, yoke, cable clevis
	0900970-5	1	PIN, cotter, 1/16" x 1/2"
5	0639314-4	1	CLIP, cable supporting
	0927400-2	1	CAPSCREW, 3/8"NC x 5/8"
	0910287-2	1	LOCKWASHER, 3/8"
6	-----	1	BRACKET (See THROTTLE CONTROL)



NOZZLE HOLDER ASSEMBLY 4392058

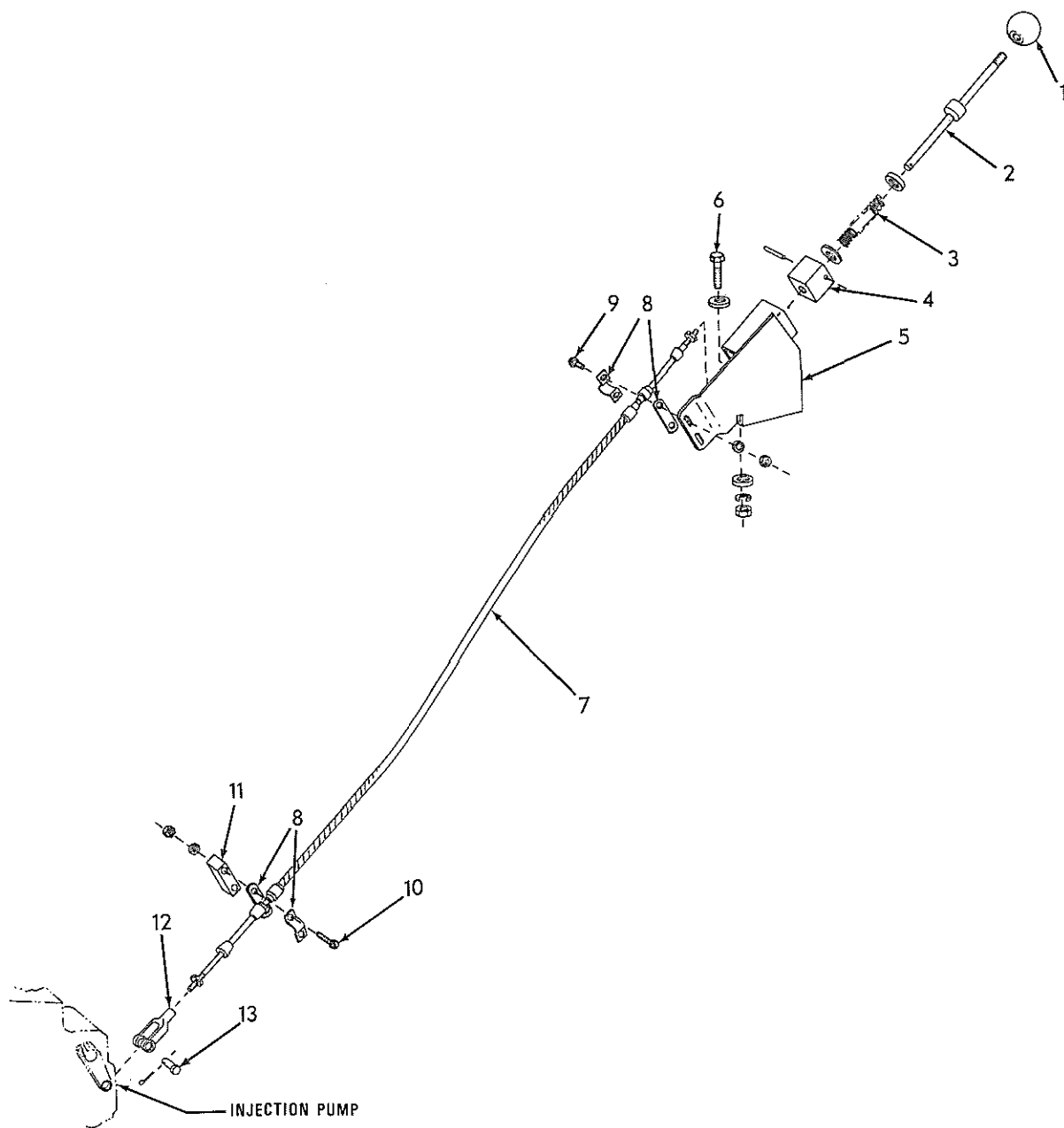
T-27378

USAGE: See page 55

ITEM PART NO. QTY. DESCRIPTION

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

1	4021227	1	CAP
2	4511243	2	GASKET, cap nut
3	4511213	1	NUT, locking
4	4378033	1	SCREW, adjusting
5	4380652	1	SPRING
6	4391240	1	SPINDLE
7	-----	1	BODY (Not serviced separately)
8	4390006	1	NOZZLE ASSEMBLY (Includes item 10)
9	4392057	1	NUT, nozzle retaining
10	4378031	1	GASKET, nozzle



INJECTION PUMP

ENGINE SHUT-OFF CONTROL

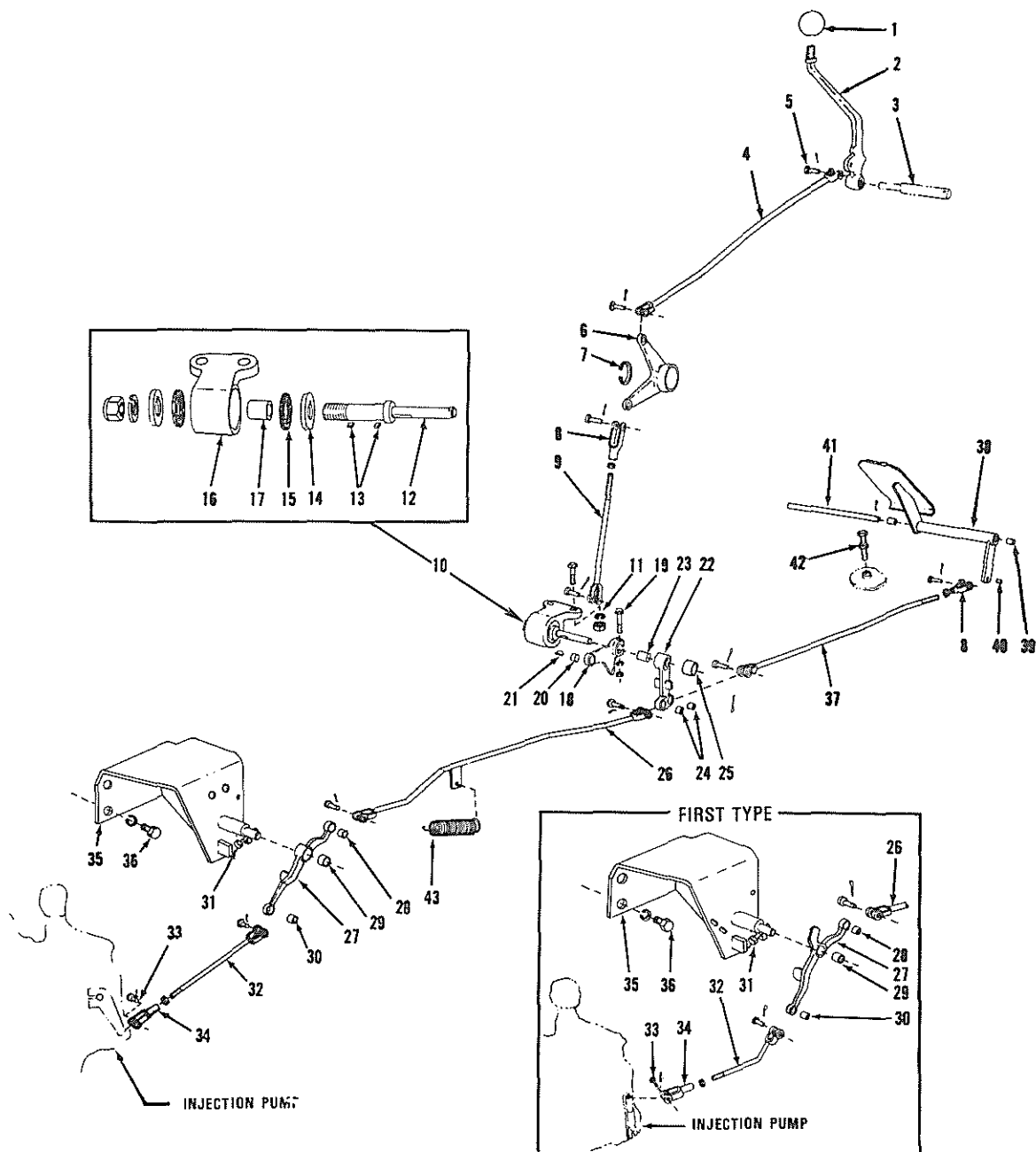
T-74966

ENGINE SHUT-OFF CONTROL

USAGE: Tractors prior to serial No. 10S17001

ITEM	PART NO.	QTY.	DESCRIPTION
1	659075	1	KNOB, shut-off rod
2	667218	1	ROD, shut-off
3	664832	1	SPRING, shut-off rod
	044973	1	WASHER, plain (upper)
	900817	1	WASHER, plain, U.S. std., 3/8" (lower)
4	667469	1	BLOCK, connecting, cable to rod
	919761	1	PIN, spring, 1/8" x 1-1/4"
5	667466	1	BRACKET, guide and support, control
6	916272	2	CAPSCREW, 3/8"NC x 1-1/4"
	044973	4	WASHER, plain
	904206	2	LOCKWASHER, 3/8"
	911026	2	NUT, 3/8"NC
7	664818	1	CABLE ASSEMBLY, push-pull (Serviced only as a unit)
8	662427	2	CLAMP ASSEMBLY, cable (Includes shim)
9	901174	2	SCREW, machine, 3/16"NC x 3/4"
10	916529	2	SCREW, machine, 3/16"NC x 2"
	910243	4	WASHER, plain, SAE std., 3/16"
	926673	4	NUT, elastic stop, 3/16"NC
11	667253	1	BLOCK, spacing, cable clamp
12	196606	1	CLEVIS, control cable
13	628738	1	PIN, yoke, cable clevis
	900970	1	PIN, cotter, 1/16" x 1/2"

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



THROTTLE CONTROL

T-75078

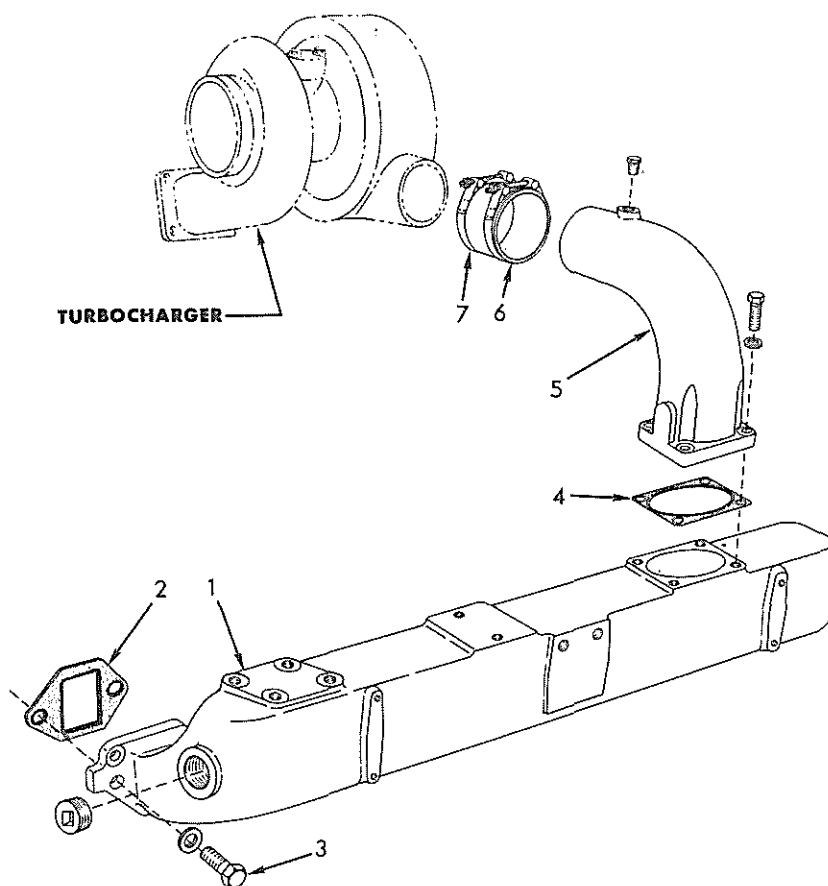
THROTTLE CONTROL

ITEM	PART NO.	QTY.	DESCRIPTION
1	090020	1	KNOB, operating lever
2	631975	1	LEVER operating
3	-----	1	SHAFT, operating lever (See STEERING LEVERS AND LINKAGE)
4	666219	1	ROD, upper
5	078810	8	PIN, yoke, control rod
	900942	8	PIN, cotter, 3/32" x 5/8"
6	081094	1	BELLCRANK, upper rod
7	052225	1	RING, snap, bellcrank retaining
8	628736	2	YOKE, control rod
9	653996	1	ROD, intermediate upper
	911048	1	NUT, jam, 3/8"NF
10	633152	1	FRICITION ASSEMBLY (Includes items 12 thru 17)
11	919230	2	CAPSCREW, 1/2"NC x 1-3/8"
	904208	2	LOCKWASHER, 1/2" "
	911028	2	NUT, 1/2"NC
	900806	1	PIN, cotter, 1/8" x 1"
12	631682	1	SHAFT, friction
	904369	1	LOCKWASHER, 3/4"
	916591	1	NUT, elastic stop, 3/4"NF
13	632716	2	KEY, friction washer
14	632710	2	WASHER, friction
15	632747	2	DISC, friction
16	632766	1	HOUSING ASSEMBLY, friction (Includes item 17)
17	632752	1	BUSHING, friction housing
18	631494	1	LEVER ASSEMBLY, friction shaft (Includes item 20)
19	916279	1	CAPSCREW, 5/16"NC x 1-1/2"
	904205	1	LOCKWASHER, 5/16"
	911025	1	NUT, 5/16"NC
20	624584	1	BUSHING, friction shaft lever
21	632756	1	KEY, friction shaft lever
22	666795	1	LEVER ASSEMBLY, intermediate lower rod (Includes items 23 and 24)
23	631476	1	BUSHING, intermediate lower rod lever (large)
24	624584	2	BUSHING, intermediate lower rod lever (small)
25	610563	1	SPACER, lever

(Continued)

THROTTLE CONTROL (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
26	0666223-3	1	ROD, intermediate, lower (Tractors prior to unit #17197)
	0676043-3	1	ROD, intermediate, lower (Tractors unit #17197 thru #17573)
	0677708-0	1	ROD, intermediate, lower (Tractors unit #17574 and up)
27	0642165-5	1	BELLCRANK ASSY., lower rod (Tractors prior to unit #17565 incl. #17569)
	0674774-5	1	BELLCRANK ASSY., lower rod (Tractors unit #17565 and up excl. #17569)
			Each includes items 28, 29 and 30
28	0624584-9	1	BUSHING, bellcrank (3/8" long)
29	0631476-9	1	BUSHING, bellcrank (7/8" long)
30	0624585-6	1	BUSHING, bellcrank (1/4" long)
31	0634650-6	1	CAPSCREW, lever stop (3/8"NC x 1-1/2")
	0911034-0	1	NUT, jam, 3/8"NC
32	0644633-0	1	ROD, lower (Tractors prior to unit #17565 incl. #17569)
	0674755-4	1	ROD, lower (Tractors unit #17565 and up excl. #17569)
	0910267-4	1	NUT, jam, 1/4"NF
33	0628737-9	1	YOKE, lower rod
34	0628738-7	2	PIN, yoke, lower rod
	0900970-5	2	PIN, cotter, 1/16" x 1/2"
35	0667241-4	1	BRACKET, supporting, control linkage (Tractors prior to unit #17001)
	0665462-8	1	BRACKET, supporting, control linkage (Tractors unit #17001 and up)
36	0910244-3	1	WASHER, plain, SAE std., 1/2"
	0900806-2	1	PIN, cotter, 1/8" x 1"
	0097494-9	3	CAPSCREW, Nylok, 1/2"NC x 1"
	0904208-6	3	LOCKWASHER, 1/2"
37	0666221-7	1	ROD, decelerator
	0911048-7	1	NUT, jam, 3/8"NF
38	0631488-4	1	PEDAL ASSY., decelerator (Includes items 39 and 40)
39	0063222-0	2	BUSHING, decelerator pedal (large)
40	0624584-9	1	BUSHING, decelerator pedal (small)
41	0630777-1	1	SHAFT, decelerator pedal
	0918111-5	1	PIN, spring, 1/8" x 1"
42	0648477-8	1	CAPSCREW, pedal stop (1/2"NC)
	0911035-5	1	NUT, jam, 1/2"NC
43	0043881-2	1	SPRING, retracting, intermediate rod

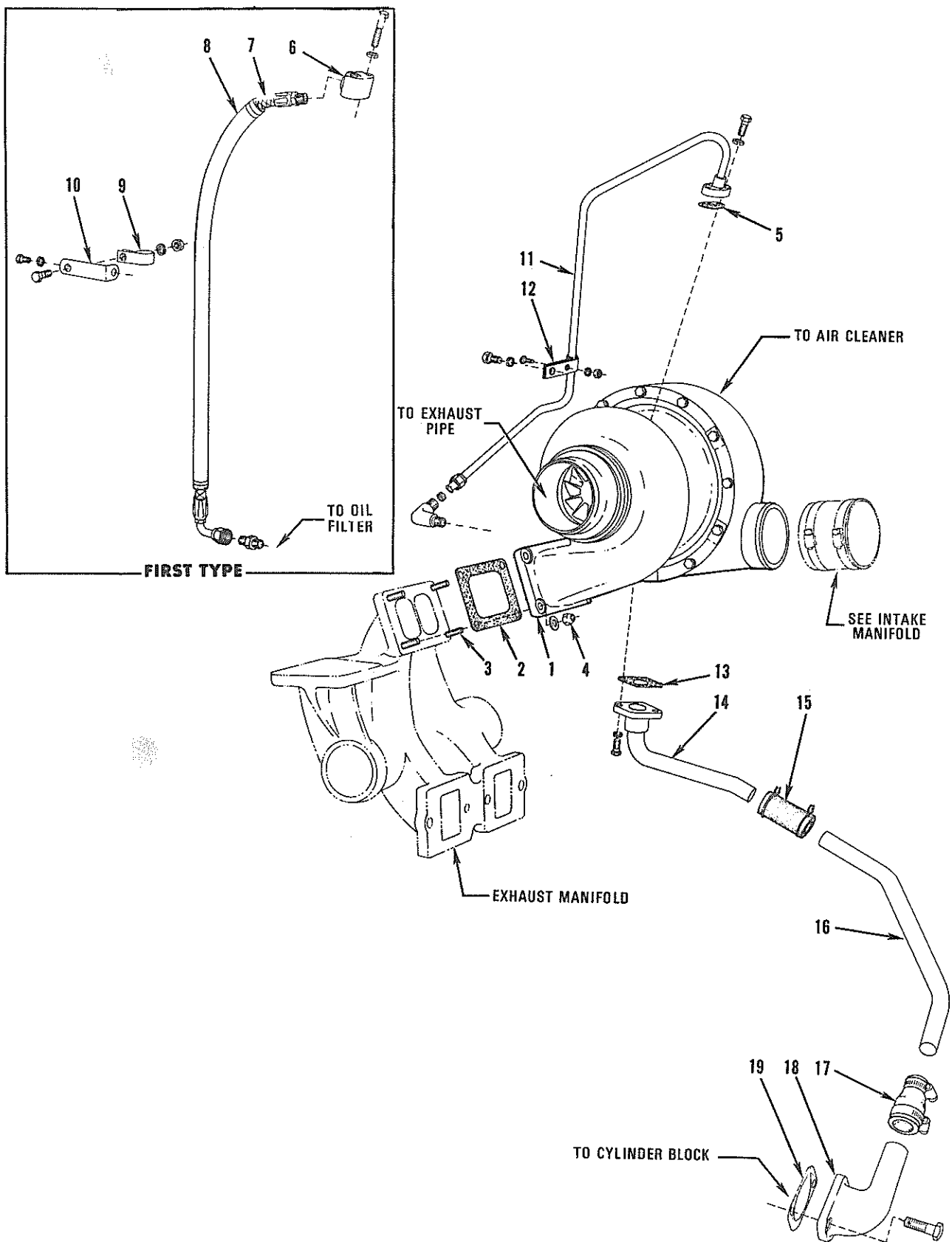


INTAKE MANIFOLD

T-75072

ITEM	PART NO.	QTY.	DESCRIPTION
1	4391581	1	MANIFOLD, intake
	901667	1	PLUG, pipe, ctsk-hd., 1-1/4"NPT
2	4387697	6	□GASKET, intake manifold
3	4255895	8	CAPSCREW, manifold attaching (1-1/4" long)
	4255914	4	CAPSCREW, manifold attaching (1-1/2" long)
	4371107	12	WASHER, plain
4	4391707	1	□GASKET, elbow to manifold
5	4391706	1	ELBOW, air intake
	919840	1	PLUG, pipe, hex-hd., 1/4"NPT (Not used when engine primer is installed)
	919230	4	CAPSCREW, 1/2"NC x 1-3/8"
	4371107	4	WASHER, plain
6	4391131	1	HOSE, elbow to turbocharger
7	4255881	2	CLAMP, hose

HD21 (Series B) 0664645-9



TURBOCHARGER

T-37201

Replaces page 64 in HD21 (Series B) Parts Catalog 0664645-9
 Printed in U. S. A.

(Revised July 1969)

TURBOCHARGER

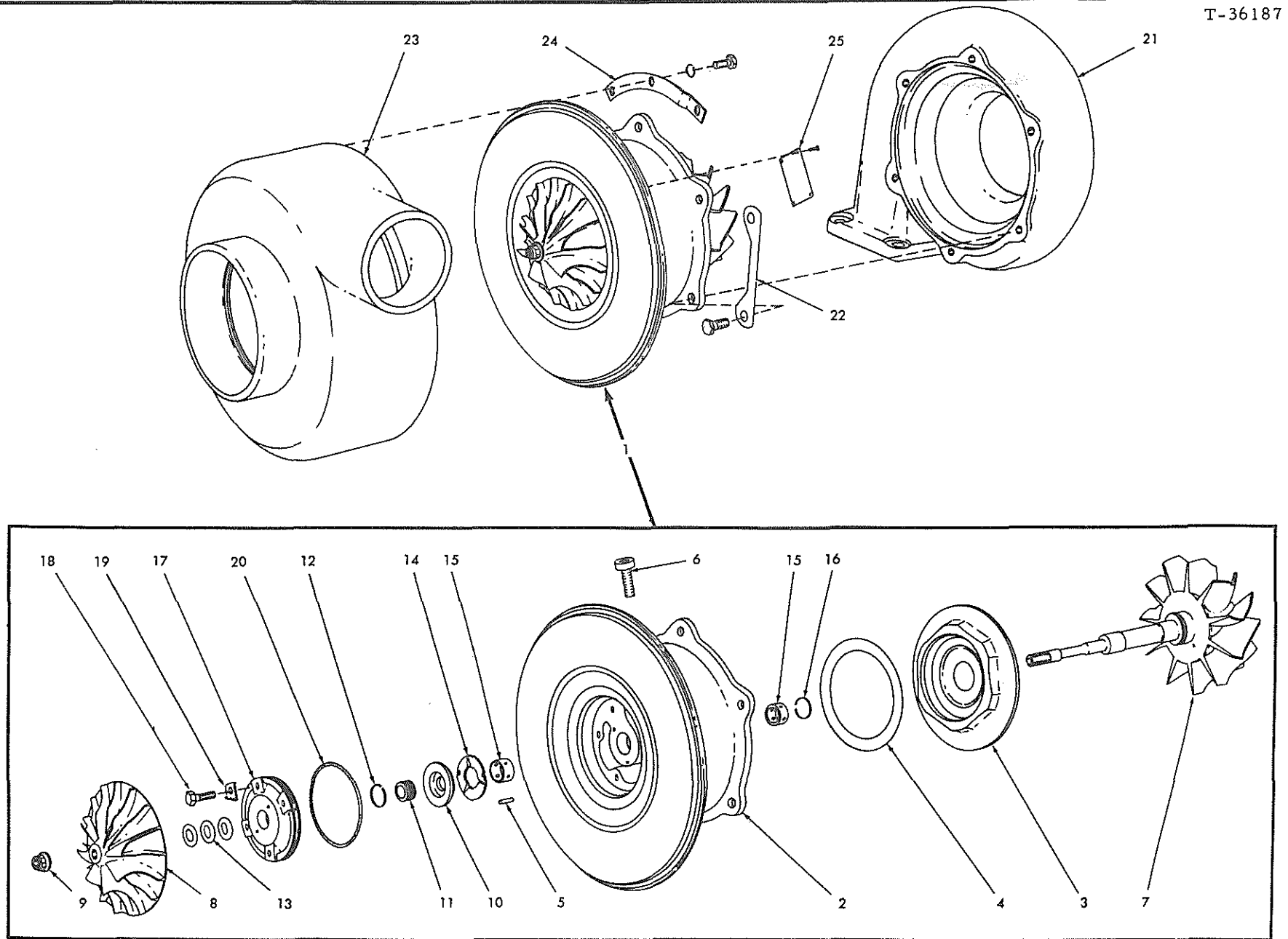
* Engines prior to serial No. 21-10093

** Engines serial No. 21-10093 and up

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	4390769	1 -	TURBOCHARGER ASSY. (Engines prior to #21-10019)(See page 66 for parts)
	4391962	1 1	TURBOCHARGER ASSY. (Engines #21-10019 and up)(See page 67a for parts)
2	4336558	1 1	□GASKET, turbocharger to manifold
3	4339535	4 4	STUD, turbocharger attaching
4	4385387	4 4	NUT
	913544	4 4	WASHER, plain
5	4335647	1 1	□GASKET, oil supply line flange
6	4386237	1 -	FLANGE, oil supply line
	919226	2 -	CAPSCREW, 3/8"NC x 1-5/8"
	904206	2 -	LOCKWASHER, 3/8"
7	4386238	1 -	HOSE ASSY., oil supply line (See HOSE PARTS. Also includes item 8)
	919063	1 -	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
8	4379283	1 -	SLEEVE, hose protecting (asbestos)
	920552	2 -	CLAMP, hose, 7/8" diam.
9	4254646	1 -	CLIP, hose supporting
	915408	1 -	CAPSCREW, 3/8"NC x 3/4"
	904206	1 -	LOCKWASHER, 3/8"
	910324	1 -	NUT, 3/8"NC
10	4385412	1 -	BRACKET, hose supporting
	916268	1 -	CAPSCREW, 3/8"NC x 5/8"
	904206	1 -	LOCKWASHER, 3/8"
11	4391996	- 1	TUBE ASSY., oil supply line (Includes NUT and SLEEVE indented below)
	917810	- 1	NUT, Imperial, 3/8" tube
	917807	- 1	SLEEVE, Imperial, 3/8" tube
	919005	- 1	ELBOW, Imperial, 90°, 3/8" tube, 3/8"NPT male
	916269	- 2	CAPSCREW, 3/8"NC x 7/8"
	904206	- 2	LOCKWASHER, 3/8"
12	4254961	- 1	CLAMP, tube supporting
	917393	- 1	SCREW, machine, #8-32 x 3/8"
	906964	- 1	LOCKWASHER, #8
	907154	- 1	NUT, #8-32
	916270	- 1	CAPSCREW, 3/8"NC x 1/2"
	904206	- 1	LOCKWASHER, 3/8"
13	4335649	1 1	□GASKET, oil drain line, upper
14	4385614	1 1	TUBE, oil drain line, upper
	916269	2 2	CAPSCREW, 3/8"NC x 7/8"
	904206	2 2	LOCKWASHER, 3/8"
15	4390773	1 1	HOSE, oil drain line
	4255974	2 2	CLAMP, hose
16	4379913	1 1	TUBE, oil drain line, lower
17	4379723	1 1	ADAPTER, oil drain line
	921911	1 1	CLAMP, hose (11/16" to 1-1/4" diam.)
	925757	1 1	CLAMP, hose (1-1/4" to 1-15/16" diam.)
18	4379672	1 1	ELBOW, oil drain line
	921865	2 2	CAPSCREW, Nylok, 1/2"NC x 1"
19	4310257	1 1	□GASKET, oil drain line elbow
20	4387007	1 1	GASKET KIT (Consists of items 2, 5, 13 and 19)(Not illustrated)

□Indicates components of item 20

T-36187



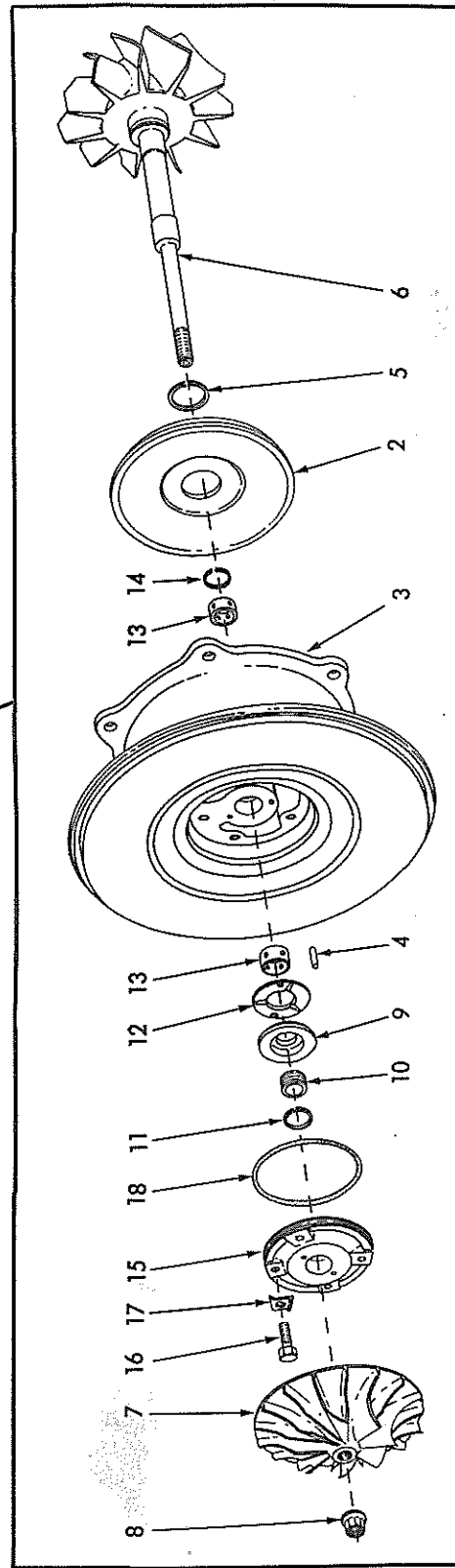
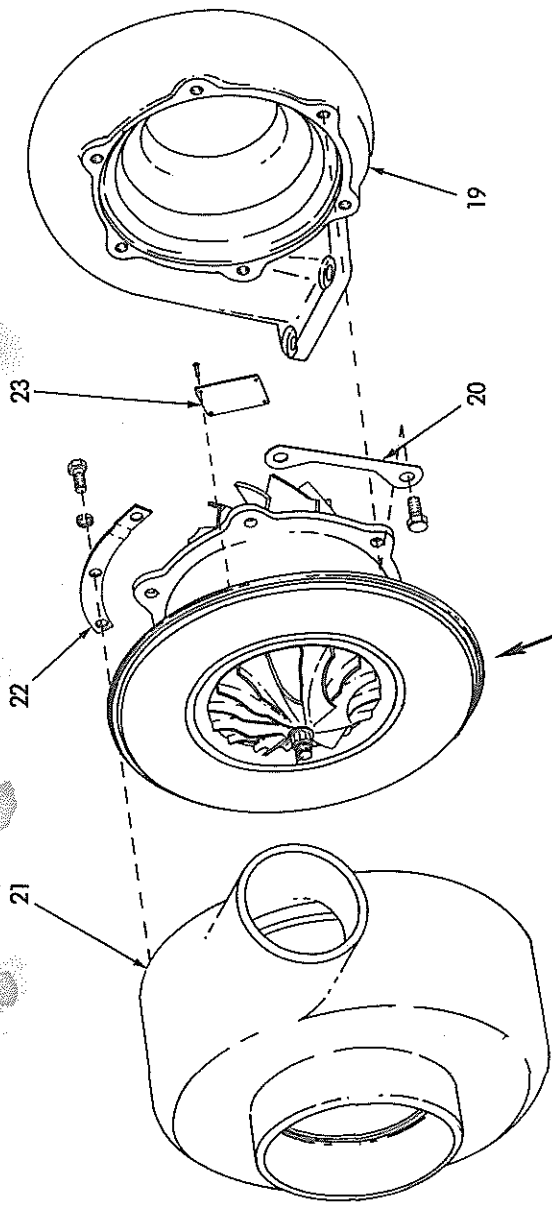
TURBOCHARGER ASSEMBLY 4390769

TURBOCHARGER ASSEMBLY 4390769

USAGE: See page 65

ITEM	PART NO.	QTY.	DESCRIPTION
1	4059017	1	HOUSING AND ROTATING ASSEMBLY (Consists of items 2 thru 20)
2	4056617	1	HOUSING ASSEMBLY, center (Includes items 3 thru 6)
3	-----	1	SHROUD, wheel (Not serviced separately)
4	-----	1	WASHER, locking, wheel shroud (Not serviced separately)
5	4055187	2	PIN, dowel, center housing
6	4055190	1	PLUG, oil reservoir, center housing
7	4056620	1	SHAFT AND WHEEL
8	4059016	1	IMPELLER
9	4055201	1	NUT, impeller retaining
10	4056494	1	RING, thrust
11	4056339	1	SPACER, thrust
12	4055195	1	RING, sealing
13	4055197	-	SHIM, impeller (.002" thick)
	4055198	-	SHIM, impeller (.005" thick)
	4055199	-	SHIM, impeller (.010" thick)
} Use as req'd			
14	4055192	1	BEARING, thrust
15	4056295	2	BEARING, impeller shaft
16	4056296	3	RING, snap
17	4055193	1	PLATE ASSEMBLY, thrust, center housing (Includes riveted washer)
18	4055196	4	CAPSCREW, #10-24NC x 7/8"
19	4055194	4	PLATE, locking
20	4053336	1	O-RING, thrust plate
21	4055982	1	HOUSING, turbine
	4056026	6	CAPSCREW, 3/8"NC x 3/4"
22	4055981	3	PLATE, capscrew locking
23	4059018	1	HOUSING ASSEMBLY, compressor (Includes venturi)
24	4055203	6	CLAMP, compressor housing
	915809	12	CAPSCREW, 5/16"NC x 3/4"
	917356	12	LOCKWASHER, plated, 5/16"
25	4055206	1	PLATE, name
	4049009	4	SCREW, drive

HD21 Series B (0664645-9)



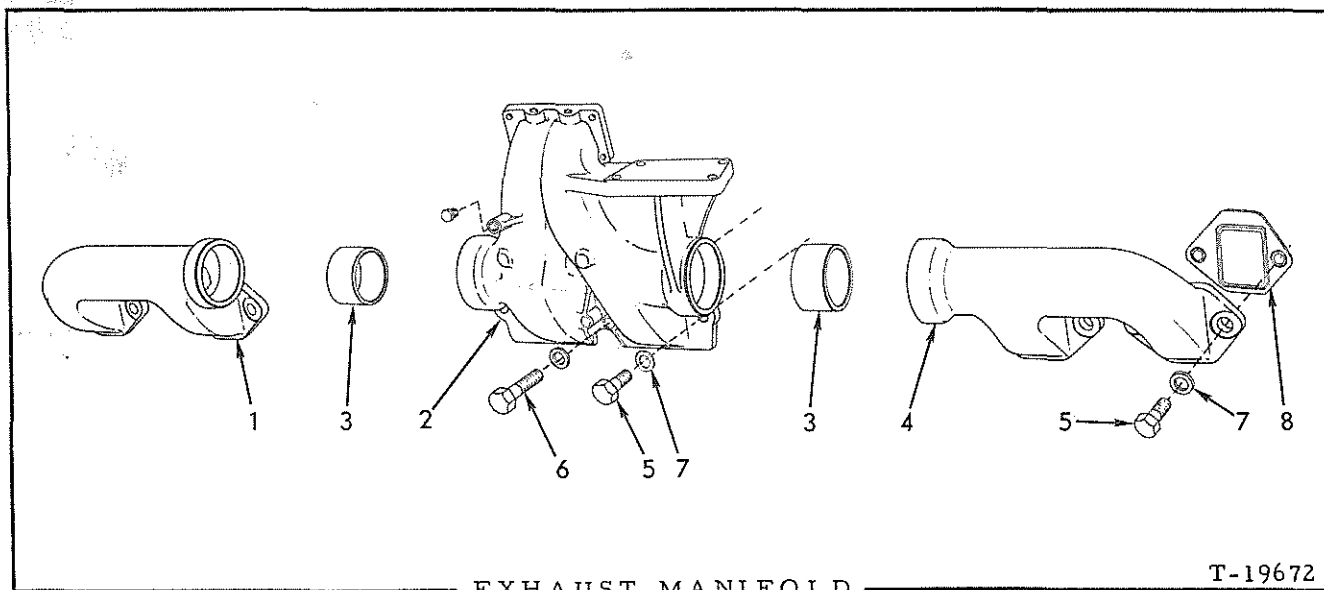
T-75467

TURBOCHARGER ASSEMBLY 4391962

TURBOCHARGER ASSEMBLY 4391962

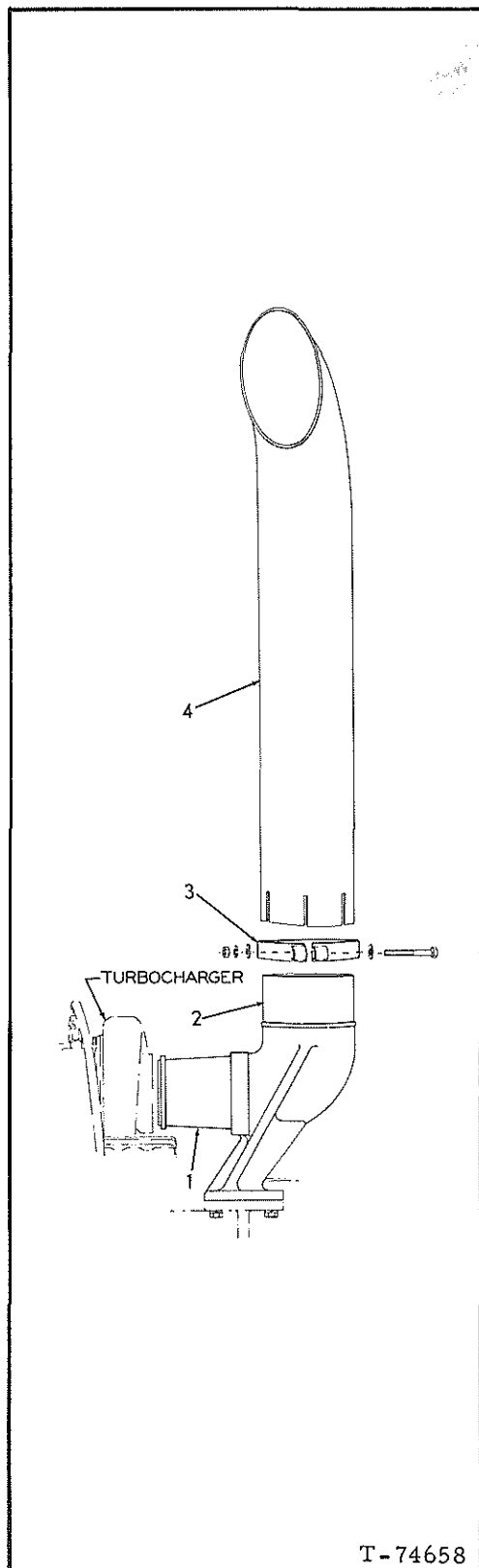
USAGE: See page 64

ITEM	PART NO.	QTY.	DESCRIPTION
1	4059751	1	HOUSING AND ROTATING ASSY. (Consists of items 2 thru 18)
2	4059748	1	SHROUD, wheel
3	4059745	1	HOUSING ASSY., center (Includes item 4)
4	4059777 4055187	2	PIN, dowel, center housing
5	4059746	1	RING, sealing shaft
6	4059744	1	SHAFT AND WHEEL
7	4059016	1	IMPELLER
8	4055201	1	NUT, impeller retaining
9	4056494	1	RING, thrust
10	4056339	1	SPACER, thrust
11	4055195	1	RING, sealing
12	4055192	1	BEARING, thrust
13	4056295	2	BEARING, impeller shaft
14	4056296	3	RING, snap
15	4055193	1	PLATE ASSY., thrust, center housing (Includes riveted washer)
16	4055196	4	CAPSCREW, #10-24NC x 7/8"
17	4055194	4	PLATE, locking
18	4053336	1	O-RING, thrust plate
19	4059747	1	HOUSING, turbine
	4056026	6	CAPSCREW, 3/8"NC x 3/4"
20	4055981	3	PLATE, capscREW locking
21	4059018	1	HOUSING ASSY., compressor (Includes venturi)
22	4055203	6	CLAMP, compressor housing
	903626	12	CAPSCREW, 5/16"NC x 3/4"
	917356	12	LOCKWASHER, plated, 5/16"
23	4055206	1	PLATE, name
	4049009	4	SCREW, drive



ITEM	PART NO.	QTY.	DESCRIPTION
1	4374694	1	MANIFOLD, rear section
2	4387014	1	MANIFOLD, exhaust, center section
	917425	2	PLUG, pipe, hex-hd., brass, 1/4"NPT
3	4391425	2	SLEEVE, connecting
4	4374695	1	MANIFOLD, front section
5	915987	10	CAPSCREW, manifold attaching (1-1/2" long)
6	916317	2	CAPSCREW, manifold attaching (2-3/4" long)
7	4371107	12	WASHER, manifold stud nut
8	4387697	6	GASKET, manifold

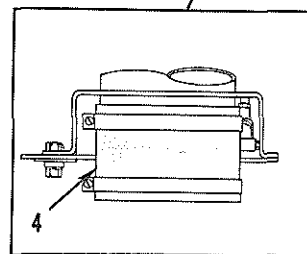
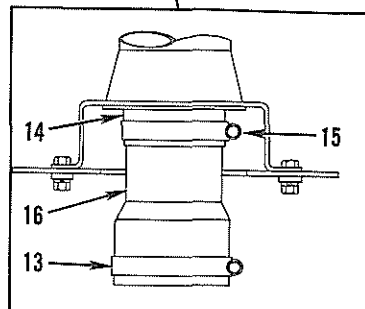
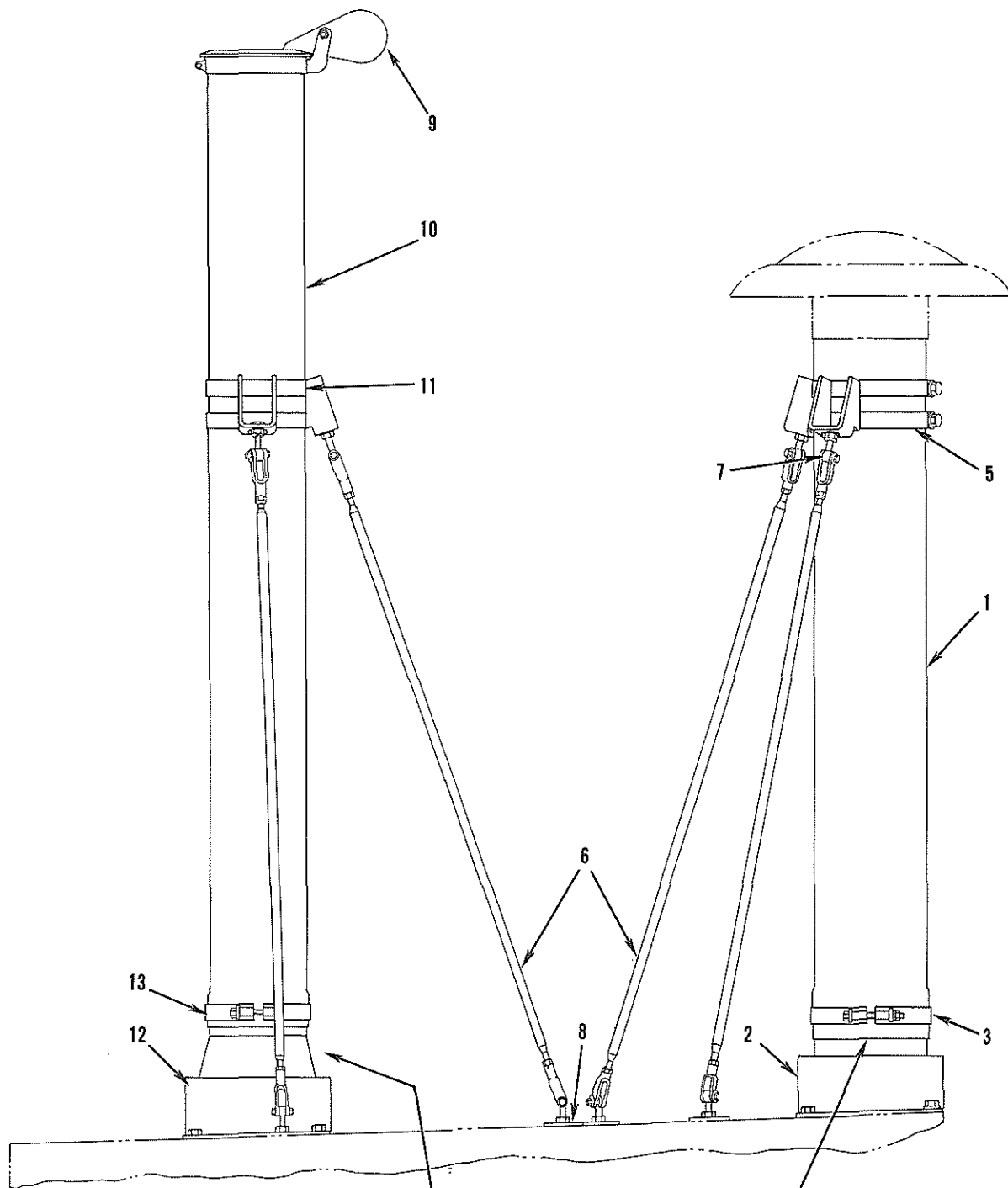
HD21 (Series B) 0664645-9



EXHAUST PIPE

ITEM	PART NO.	QTY.	DESCRIPTION
1	4391715	1	DIFFUSER, exhaust
2	4390080	1	ELBOW, exhaust
	919230	4	CAPSCREW, 1/2"NC x 1-3/8"
	904208	4	LOCKWASHER, 1/2"
3	629755	1	CLAMP, exhaust pipe
	082013	1	CAPSCREW, 3/8"NC x 3-1/4"
	044973	2	WASHER, plain
	904206	1	LOCKWASHER, 3/8"
	911026	1	NUT, 3/8"NC
4	096055	1	PIPE, exhaust

NOTE: See page 71 for special exhaust extension.



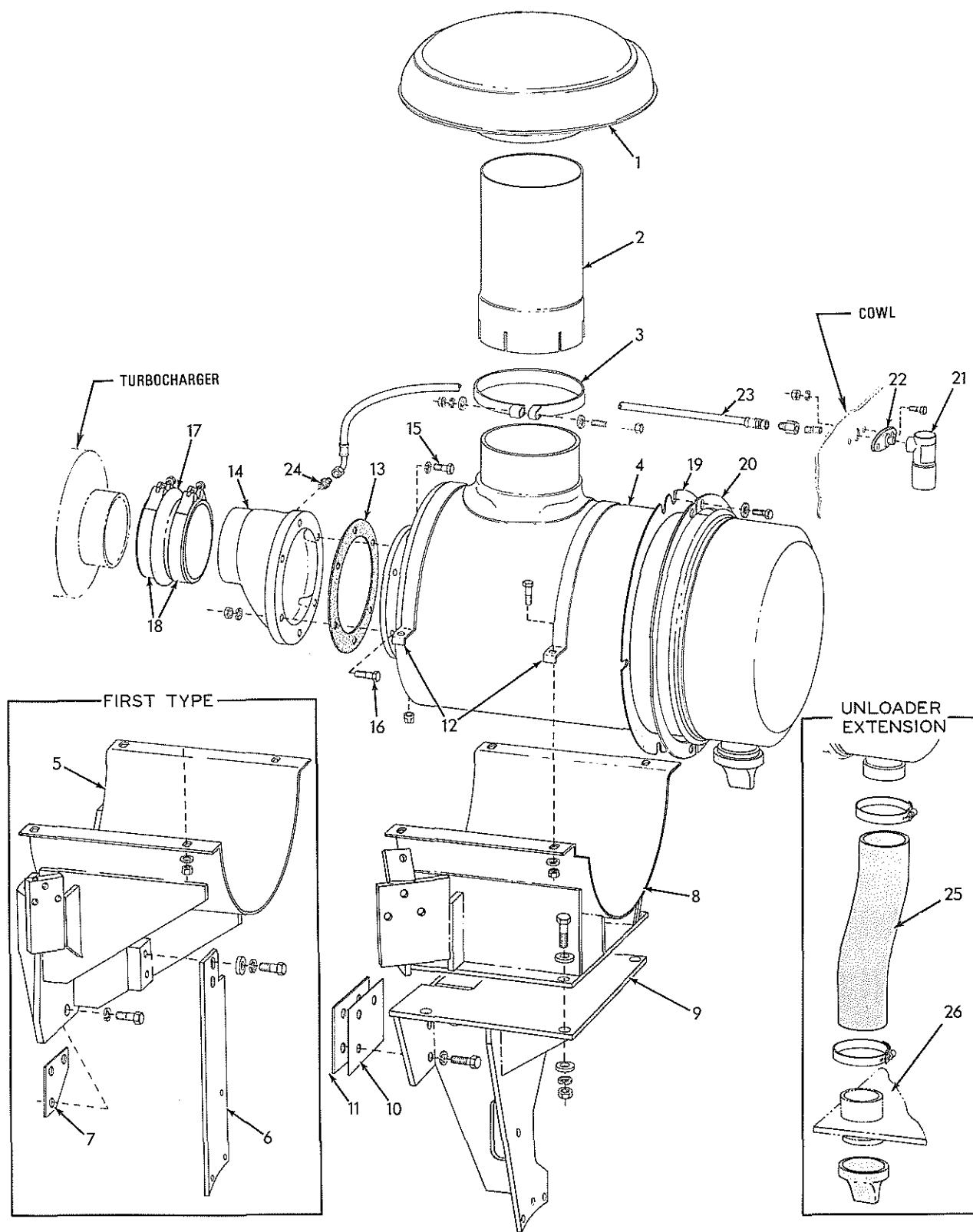
AIR INTAKE AND EXHAUST EXTENSIONS

I-75080

AIR INTAKE AND EXHAUST EXTENSIONS

USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	0665601-1	1	TUBE, extension, air intake
2	0665600-3	1	BRACKET, air intake tube
	0920582-4	2	CAPSCREW, 1/2"NC x 1-1/4"
	0677008-5	2	WASHER, plain
	0912441-3	2	LOCKWASHER, 1/2"
	0911028-9	2	NUT, 1/2"NC
3	0658633-3	1	CLAMP, air intake tube
	0927339-2	1	CAPSCREW, 3/8"NC x 3-1/4"
	0677006-9	2	WASHER, plain
	0910287-2	1	LOCKWASHER, 3/8"
	0911026-3	1	NUT, 3/8"NC
4	0665598-9	1	HOSE, intake tube bracket to air cleaner
	0925894-8	2	CLAMP, hose, 7-1/4" to 7-1/2" diam.
5	0665614-4	1	BRACKET, bracing rod, air intake tube
	0927339-2	2	CAPSCREW, 3/8"NC x 3-1/4"
	0677006-9	4	WASHER, plain
	0910287-2	2	LOCKWASHER, 3/8"
	0911026-3	2	NUT, 3/8"NC
6	0665606-0	4	ROD, extension tube bracing
	0911041-2	8	NUT, 3/8"NF
	0628736-1	8	YOKE, rod end, adjustable, 3/8"NF
	0924228-0	8	CAPSCREW, 3/8"NF x 1-1/2"
	0913434-7	8	NUT, high, 3/8"NF
7	0057148-9	8	BOLT, eye
	0911115-4	8	WASHER, plain, SAE std., 3/8"
	0911041-2	16	NUT, 3/8"NF
8	0665609-4	8	WASHER, hood reinforcing
9	0097354-5	1	CAP, weather
10	0665591-4	1	TUBE, extension, exhaust
11	0665592-2	1	BRACKET ASSY., bracing rod, exhaust tube (Includes hardware which is not serviced seperately)
12	0665585-6	1	BRACKET, exhaust tube
	0920582-4	4	CAPSCREW, 1/2"NC x 1-1/4"
	0677008-5	4	WASHER, plain
	0912441-3	4	LOCKWASHER, 1/2"
	0911028-9	4	NUT, 1/2"NC
13	0665594-8	2	CLAMP, exhaust tube and adapter
	0927339-2	2	CAPSCREW, 3/8"NC x 3-1/4"
	0677006-9	4	WASHER, plain
	0910287-2	2	LOCKWASHER, 3/8"
	0911026-3	2	NUT, 3/8"NC
14	0665590-6	1	RING, adapter
15	0665596-8	1	CLAMP, adapter ring
	0927339-2	1	CAPSCREW, 3/8"NC x 3-1/4"
	0677006-9	2	WASHER, plain
	0910287-2	1	LOCKWASHER, 3/8"
	0911026-3	1	NUT, 3/8"NC
16	0665588-0	1	ADAPTER, exhaust tube bracket



AIR CLEANER (Dry-type)

T-75079

Replaces page 72 in HD-21 Series B parts catalog 0664645-9
Printed in U. S. A.

(Revised October 1971)

AIR CLEANER (Dry-type)

USAGE; Standard equipment. See page 77 for optional oil-bath air cleaner

ITEM	PART NO.	QTY.	DESCRIPTION	
1	0197576-2	1	CAP, air inlet tube (Includes mounting clamp)	
2	0658509-5	1	TUBE, air inlet (Not for units with special air and exhaust extension stacks)	
3	0658633-3	1	CLAMP, inlet tube	
	0916389-0	1	CAPSCREW, 3/8"NC x 3-1/4"	
	0044973-6	2	WASHER, plain	
	0904206-0	1	LOCKWASHER, 3/8"	
	0911041-2	1	NUT, 3/8"NF	
4	0659386-7	1	CLEANER ASSEMBLY, air (See page 75 for parts)	
	0912060-1	1	CAP, pipe, 1/8"NPT	
5	0658518-6	1	BRACKET, mounting (Also serves as engine lifter)(Tractors prior to #16160)	Tractors prior to unit #17001
	0669199-2	1	BRACKET, mounting (Also serves as engine lifter)(Tractor # 16160 and up)	
	0920574-1	3	CAPSCREW, 1/2"NC x 1-3/8"	
	0904208-6	3	LOCKWASHER, 1/2"	
6	0660857-4	1	PLATE, mounting bracket	
	0035061-1	2	CAPSCREW, 1/2"NC x 1-1/4"	
	0904208-6	2	LOCKWASHER, 1/2"	
	0064531-7	2	WASHER, plain	
7	0664855-4	1	SPACER, mounting bracket	
8	0670011-6	1	BRACKET, mounting (upper)	
	0916313-0	4	CAPSCREW, 1/2"NC x 1-3/4"	
	0064531-7	8	WASHER, plain	
	0904208-6	4	LOCKWASHER, 1/2"	
	0911028-9	4	NUT, 1/2"NC	
9	0670012-4	1	BRACKET, mounting (lower)(Also serves as engine lifter)	Tractor unit # 17001 and up
	0920574-1	3	CAPSCREW, 1/2"NC x 1-3/8"	
	0904208-6	3	LOCKWASHER, 1/2"	
10	0670295-5	2	SHIM, mounting bracket	
11	0670294-8	1	SPACER, mounting bracket	
12	0667182-0	2	BAND, mounting	
	0916273-6	4	CAPSCREW, 3/8"NC x 1-3/4"	
	0044973-6	4	WASHER, plain	
	0918308-8	4	NUT, elastic stop, 3/8"NC	
13	0660841-8	1	GASKET, air intake elbow	
14	0660776-6	1	ELBOW, air intake	
15	0035439-9	2	CAPSCREW, 3/8"NC x 1"	
16	0040382-6	4	CAPSCREW, 3/8"NC x 1-3/8"	
	0904206-0	6	LOCKWASHER, 3/8"	
	0911026-3	4	NUT, 3/8"NC	
17	0658619-2	1	HOSE, air intake elbow	

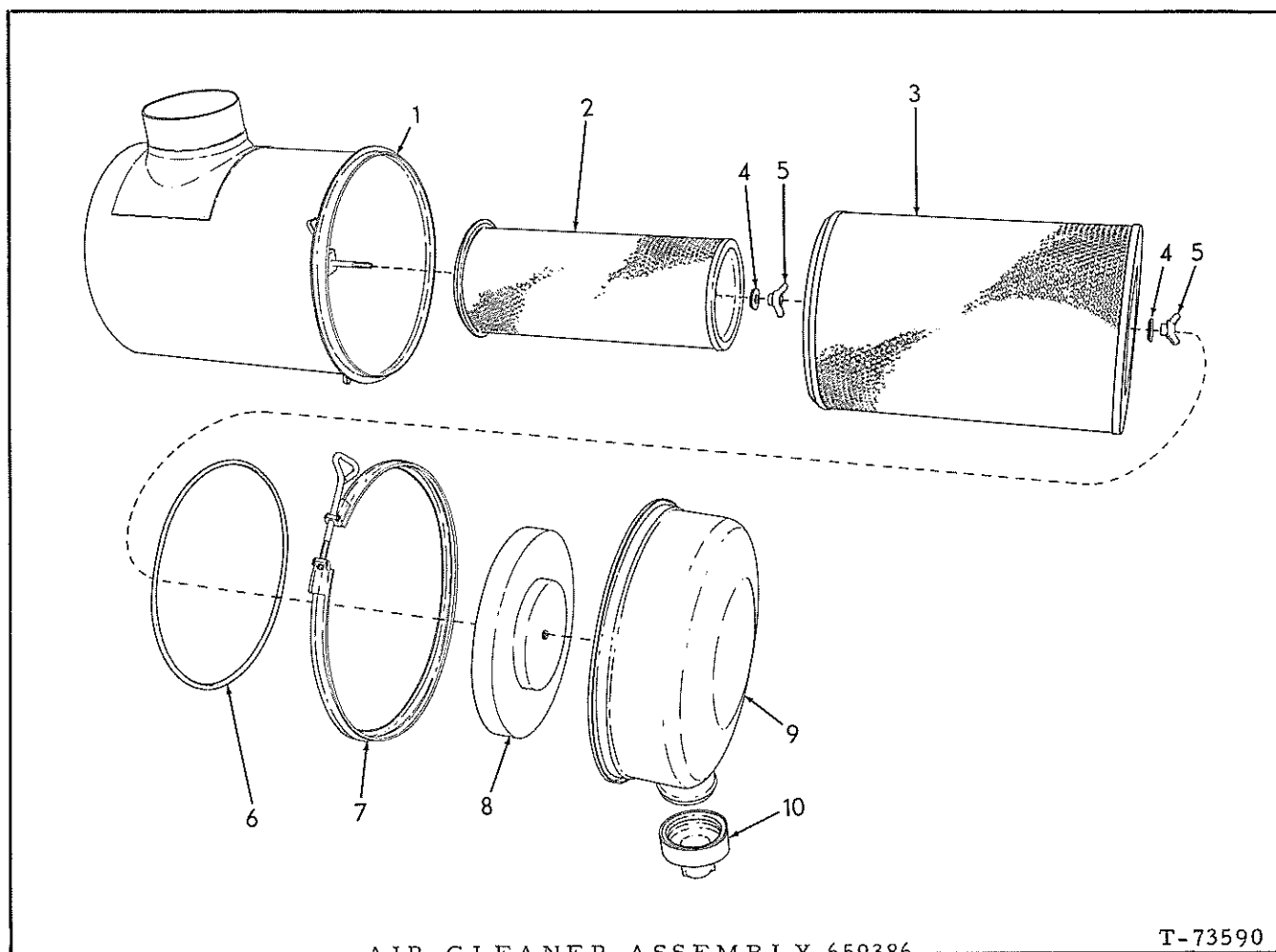
(Continued)

AIR CLEANER (Dry-type)(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
18	0659163-0	2	CLAMP, intake elbow hose
19	0658510-3	1	GASKET, cleaner sealing
20	0658532-7	2	PLATE, sealing gasket
	0921254-9	6	CAPSCREW, Nylok, 1/4"NC x 7/8"
	0900816-0	6	WASHER, plain, U.S. std., 1/4"
21	4388648-0	1	INDICATOR, air restriction (Serviced only as a unit)
22	3045531-5	1	FLANGE, mounting, air restriction indicator
	0924956-6	2	CAPSCREW, cd-pltd., 1/4"NF x 3/4"
	0904204-5	2	LOCKWASHER, 1/4"
	0911040-4	2	NUT, 1/4"NF
23	0646910-0	1	HOSE, restriction indicator (See HOSE PARTS)
	0919174-3	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT female
	0904273-0	1	NIPPLE, pipe, 1/8"NPT x 1"
24	0631769-7	1	FITTING, safety, restriction indicator line
25	0645267-6	1	HOSE, unloader extension
	0921915-5	2	CLAMP, hose, 2-13/16" to 3-3/4"
26	-----	1	PLATE (See FLOOR)

} Special equipment

NOTE: See PAINTING AND MARKING for transfers

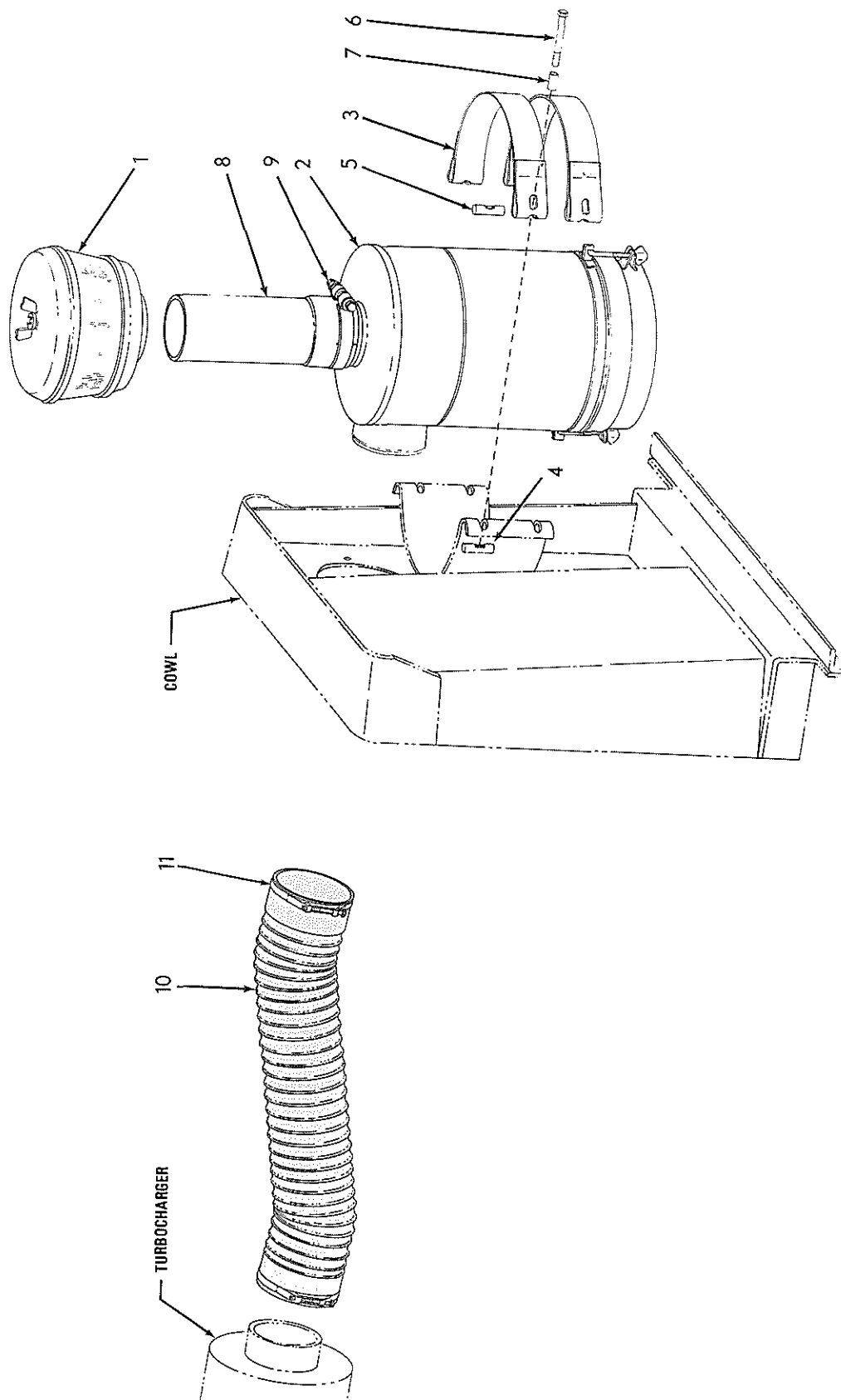


AIR CLEANER ASSEMBLY 659386

T-73590

USAGE: See page 73

ITEM	PART NO.	QTY.	DESCRIPTION	
1	-----	1	BODY (Not serviced separately)	
2	197588	1	ELEMENT ASSEMBLY, safety (inner)	} Each includes item 4
3	659387	1	ELEMENT ASSEMBLY, filtering (outer)	
4	-----	2	GASKET, element retaining nut	
5	664343	2	NUT ASSEMBLY, element retaining (Includes item 4)	
6	197805	1	O-RING, cup sealing	
7	197806	1	CLAMP ASSEMBLY (Includes tightening screw)	
8	197808	1	BAFFLE ASSEMBLY (Includes wing nut)	
9	197809	1	CUP, sediment	
10	3042943	1	UNLOADER	



T-75081

AIR CLEANER (Oil-bath)

AIR CLEANER (Oil-bath)

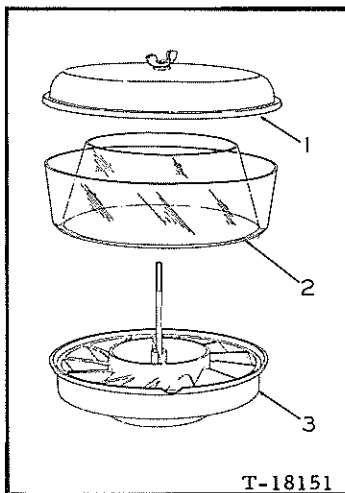
USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	0082524-0	1	PRE-CLEANER ASSY., air (See page 78 for parts)
2	0655271-5	1	CLEANER ASSY., air (See page 78 for parts)
3	0658774-5	2	BAND, air cleaner mounting
4	0056100-1	4	PIN, mounting band (threaded hole)
5	0056099-5	4	PIN, mounting band (plain hole)
6	0924842-2	4	CAPSCREW, mounting band
7	0053667-2	4	SPACER, mounting band capscREW
8	0660043-1	1	TUBE, air inlet
9	0644001-0	1	CLAMP, air inlet tube
	0922848-7	1	CAPSCREW, 3/8"NC x 3-1/4"
	0677006-9	2	WASHER, plain
	0910287-2	1	LOCKWASHER, 3/8"
	0911026-3	1	NUT, 3/8"NC
10	0669848-4	1	HOSE, air intake tube
11	0659163-0	2	CLAMP, intake tube hose

NOTE: See PAINTING AND MARKING for transfers

AIR PRE-CLEANER ASSEMBLY 082524

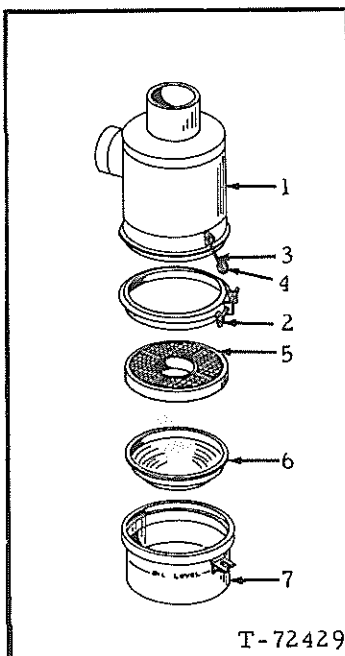
USAGE: See page 77



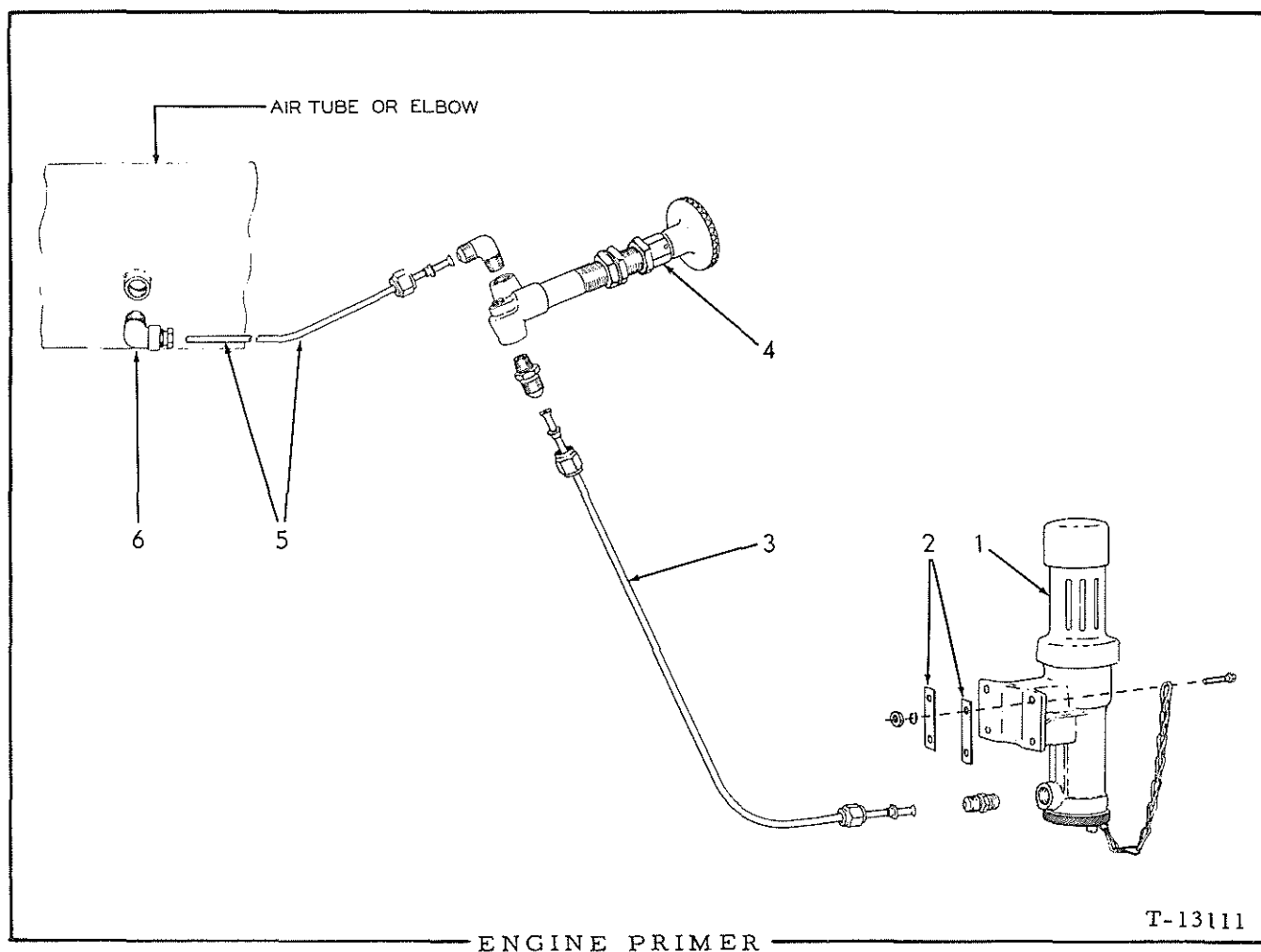
ITEM	PART NO.	QTY.	DESCRIPTION
1	082661	1	COVER ASSEMBLY (Includes wing nut)
2	082662	1	BODY
3	082663	1	SLEEVE ASSEMBLY (Includes stud)

AIR CLEANER ASSEMBLY 655271

USAGE: See page 77

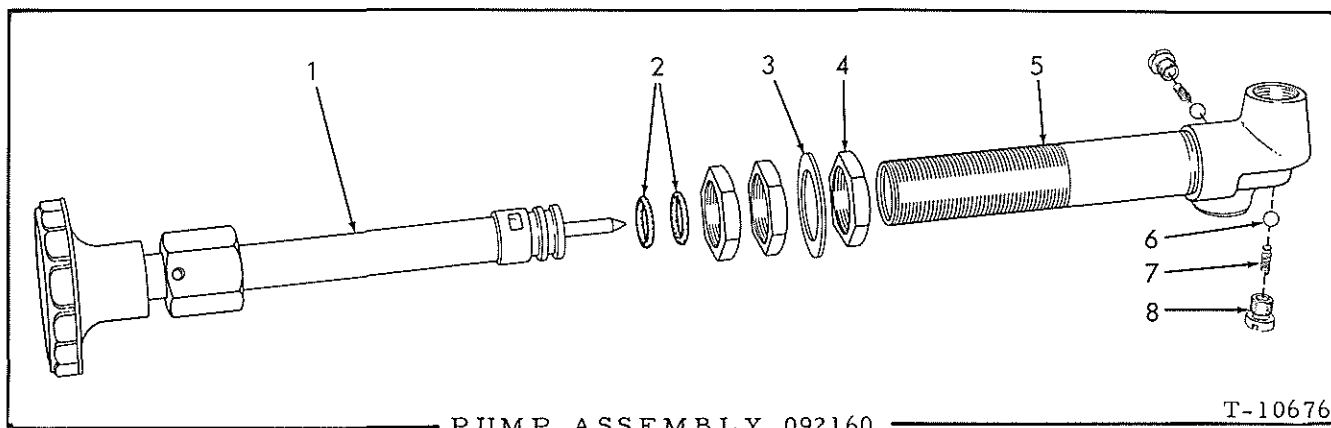


ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	BODY ASSEMBLY (Not serviced separately)
2	656647	1	BAND ASSEMBLY (Includes screw and nut)
3	4055454	2	BOLT ASSEMBLY (Includes item 4)
4	4055455	2	NUT, wing
5	656644	1	ELEMENT, filtering
6	656645	1	CUP, inner
7	656646	1	CUP, outer



USAGE: Special equipment

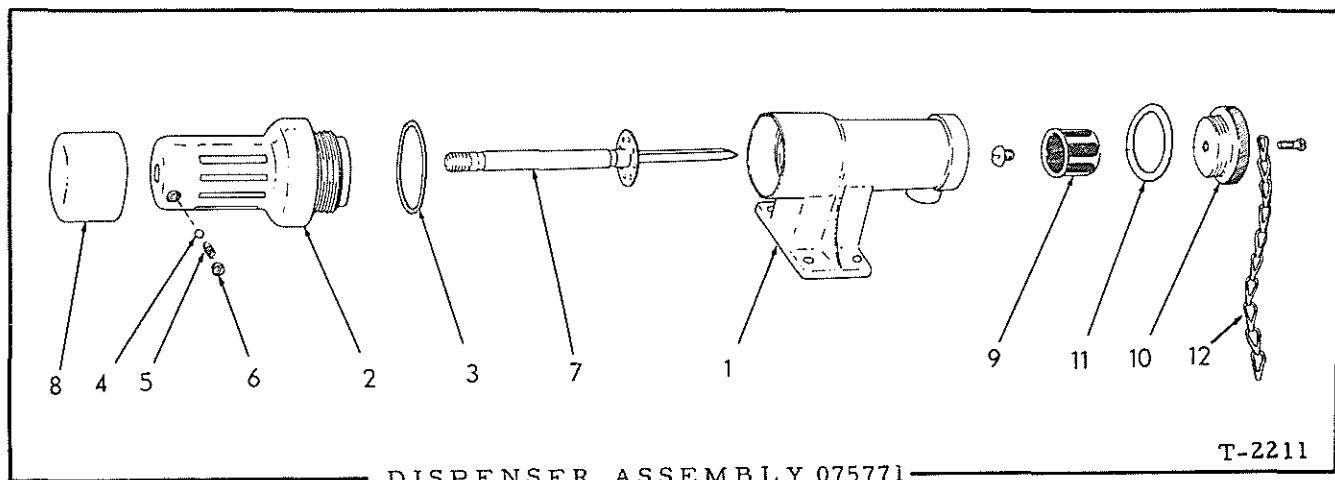
ITEM	PART NO.	QTY.	DESCRIPTION
1	075771	1	DISPENSER ASSEMBLY, priming fuel (See page 81 for parts)
	913706	4	CAPSCREW, #10-24NC x 1"
	904203	4	LOCKWASHER, #10
	901310	4	NUT, #10-24NC
2	066261	6	GASKET, dispenser mounting
3	-----	1	TUBE, dispenser to pump (Order item 7)
	915488	2	NUT, Sealastic, 1/8" tube
	915486	2	RING, Sealastic, 1/8" tube (Includes ferrule)
	915556	2	CONNECTOR, Sealastic, 1/8" tube, 1/8"NPT male
4	092160	1	PUMP ASSEMBLY (See page 80 for parts)
5	-----	1	TUBE, pump discharge (Order item 7)
	915488	1	NUT, Sealastic, 1/8" tube
	915486	1	RING, Sealastic, 1/8" tube (Includes ferrule)
	915557	1	ELBOW, Sealastic, 1/8" tube, 1/8"NPT male
6	066517	1	ELBOW ASSEMBLY, fuel spray (Includes nozzle, nut and sleeve. Serviced only as a unit)
7	066253	-	TUBING, copper, 1/8"O.D., 10ft. roll (Use as req'd)(Not Illustrated)



USAGE: See page 79

ITEM PART NO. QTY. DESCRIPTION

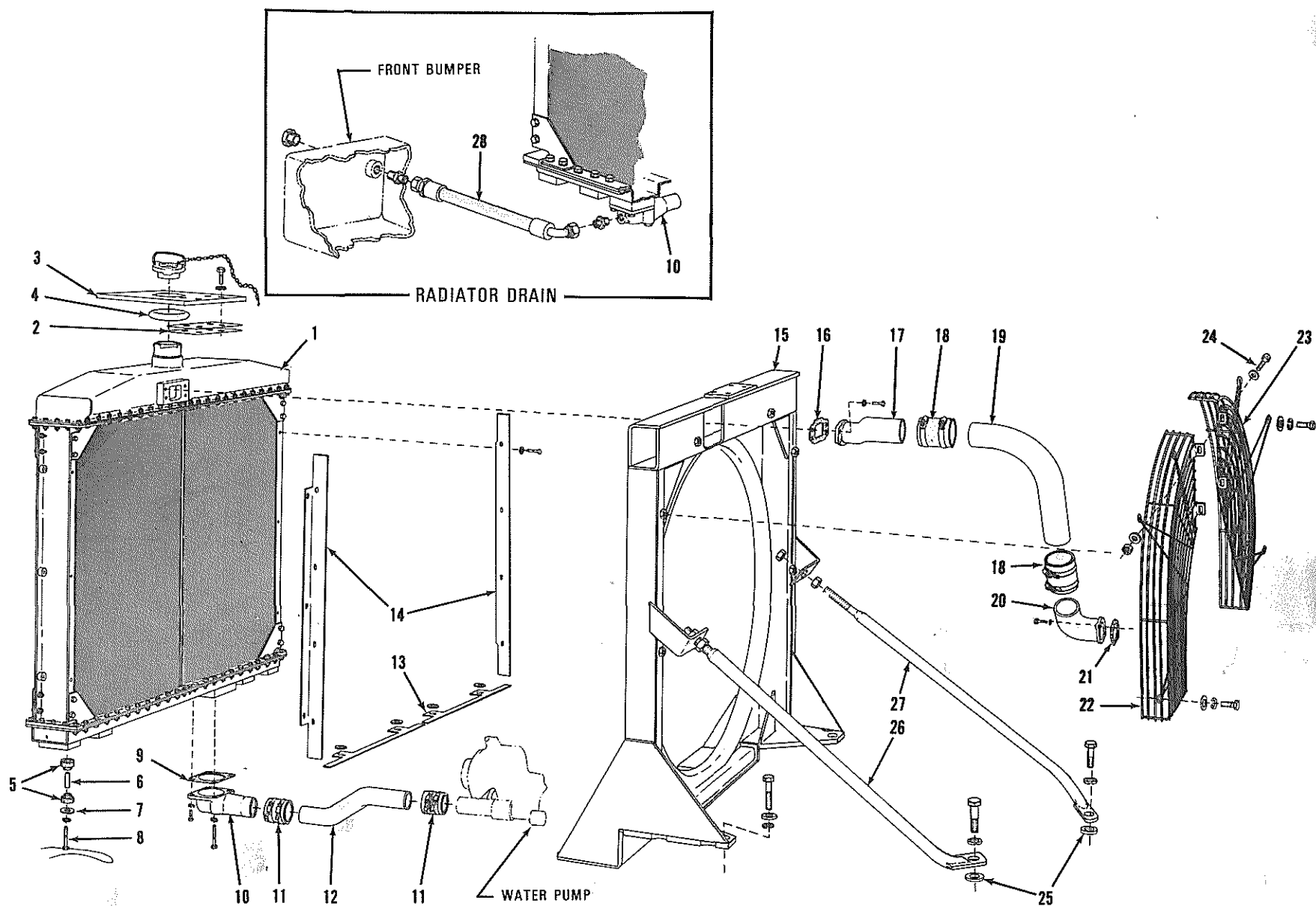
1	-----	1	PISTON ASSEMBLY (Not serviced separately)
2	923560	2	O-RING, plunger
3	066873	1	WASHER, mounting
4	066872	3	NUT, mounting
5	-----	1	BARREL ASSEMBLY (Not serviced separately)
6	066876	2	BALL, check valve (5/32" diam.)
7	066875	2	SPRING, check valve
8	066874	2	RETAINER, check valve



DISPENSER ASSEMBLY 075771

USAGE: See page 79

ITEM	PART NO.	QTY.	DESCRIPTION
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, 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
	901781	1	SCREW, machine, fil-hd., #10-32NF x 1/2"



RADIATOR AND MOUNTING

T-74634

RADIATOR AND MOUNTING

ITEM	PART NO.	QTY.	DESCRIPTION
1	666955	1	RADIATOR ASSY. (Staggered tubes. Copper-finned)(Standard on tractors prior to #16195; special thereafter)
	669332	1	RADIATOR ASSY. (Canted tubes. Steel-finned)(Standard on tractors #16195 and up)
	666832	1	RADIATOR ASSY. (Has armored tubes at rear of core to resist sand-blasting by push-type fan)
NOTE: See following page for radiator parts			
2	660606	2	SHIM, adjusting, support collar (1/32" thick)
	660480	1	SHIM, adjusting, support collar (1/16" thick)
3	660387	1	COLLAR, radiator supporting
	916314	4	CAPSCREW, 1/2"NC x 2"
	904208	4	LOCKWASHER, 1/2"
	064531	4	WASHER, plain
4	095575	1	RING, cushion
5	061671	16	SNUBBER, vibration, radiator mounting
6	061655	8	TUBE, spacing, vibration snubber
7	061656	8	WASHER, vibration snubber
8	656332	8	CAPSCREW, radiator mounting
	904206	8	LOCKWASHER, 3/8"
	023756	2	WIRE, locking, 1/16" x 26"
9	081627	1	GASKET, outlet elbow
10	661354	1	ELBOW radiator outlet
	916272	2	CAPSCREW, 3/8"NC x 1-1/4"
	920275	2	CAPSCREW, 3/8"NC x 3"
	904206	4	LOCKWASHER, 3/8"
11	073539	2	HOSE, inlet tube
	921914	4	CLAMP, hose, 2-5/16" to 3-1/4" diam.
12	660700	1	TUBE, engine inlet
13	650224	2	BAFFLE, air, radiator bottom (For standard radiator)(Not used when special radiator grid is installed)
	650223	2	BAFFLE, air, radiator bottom (For special radiator with armored core)
	910335	4	WASHER, plain, SAE std., 5/16"
14	081611	2	BAFFLE, air, radiator side (Not used when special radiator grid is installed)
	915813	6	CAPSCREW, 5/16"NC x 7/8"
	904205	6	LOCKWASHER, 5/16"
	911025	6	NUT, 5/16"NC
	092665	6	WASHER, plain

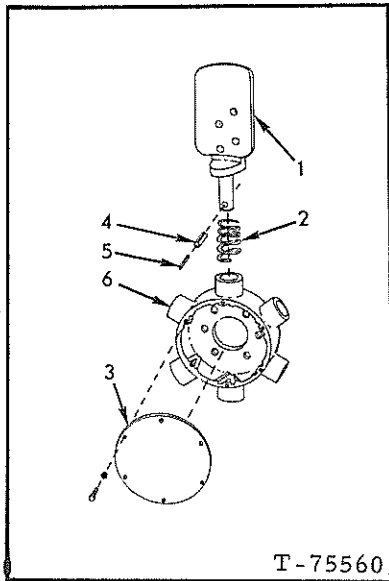
(Continued)

RADIATOR AND MOUNTING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
14A	669533	1	GRID, radiator protecting (Special. Used with canted tube radiator when operating under extreme abrasive conditions)	
	915813	6	CAPSCREW, 5/16"NC x 7/8"	
	904205	6	LOCKWASHER, 5/16"	
	911025	6	NUT, 5/16"NC	
	092665	6	WASHER, plain	
15	667438	1	SUPPORT, radiator	
	035733	4	CAPSCREW, 5/8"NC x 2-3/4"	} Tractors prior to #16121
	064810	4	WASHER, plain	
	921170	4	CAPSCREW, 3/4"NF x 2-1/2"	} Tractors #16121 and up
	061689	4	WASHER, plain	
16	081614	1	GASKET, radiator inlet	
17	082608	1	INLET, radiator	
	916271	4	CAPSCREW, 3/8"NC x 1"	
	904206	4	LOCKWASHER, 3/8"	
18	067884	2	HOSE, inlet tube	
	921914	4	CLAMP, hose, 2-1/4" to 3-1/4" diam.	
19	660561	1	TUBE, radiator inlet	
20	660557	1	ELBOW, engine outlet	
	043886	2	CAPSCREW, 7/16"NC x 1"	
	904207	2	LOCKWASHER, 7/16"	
21	4310257	1	GASKET, outlet elbow	
22	667078	1	GUARD, fan, left section	
	920539	3	CAPSCREW, Nylok, 3/8"NC x 1"	
	904206	3	LOCKWASHER, 3/8"	
	044973	3	WASHER, plain	
23	667097	1	GUARD, fan, right section	
	920539	3	CAPSCREW, Nylok, 3/8"NC x 1"	
	904206	3	LOCKWASHER, 3/8"	
	044973	3	WASHER, plain	
24	916272	2	CAPSCREW, 3/8"NC x 1-1/4"	
	900817	4	WASHER plain, U.S. std., 3/8"	
	915891	2	NUT, elastic stop, 3/8"NC	
25	060689	2	BOSS, spacing, radiator support brace	
26	668947	1	BRACE, radiator support, left	
	911046	2	NUT, 7/8"NF	
	916288	1	CAPSCREW, 3/4"NC x 2-1/2"	
	904369	1	LOCKWASHER, 3/4"	
27	668948	1	BRACE, radiator support, right	
	911046	2	NUT, 7/8"NF	
	916288	1	CAPSCREW, 3/4"NC x 2-1/2"	
	904369	1	LOCKWASHER, 3/4"	
28	666196	1	HOSE, radiator drain (See HOSE PARTS)	
	919063	2	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male	
	918951	1	PLUG, pipe, hex-hd., brass, 3/8"NPT	

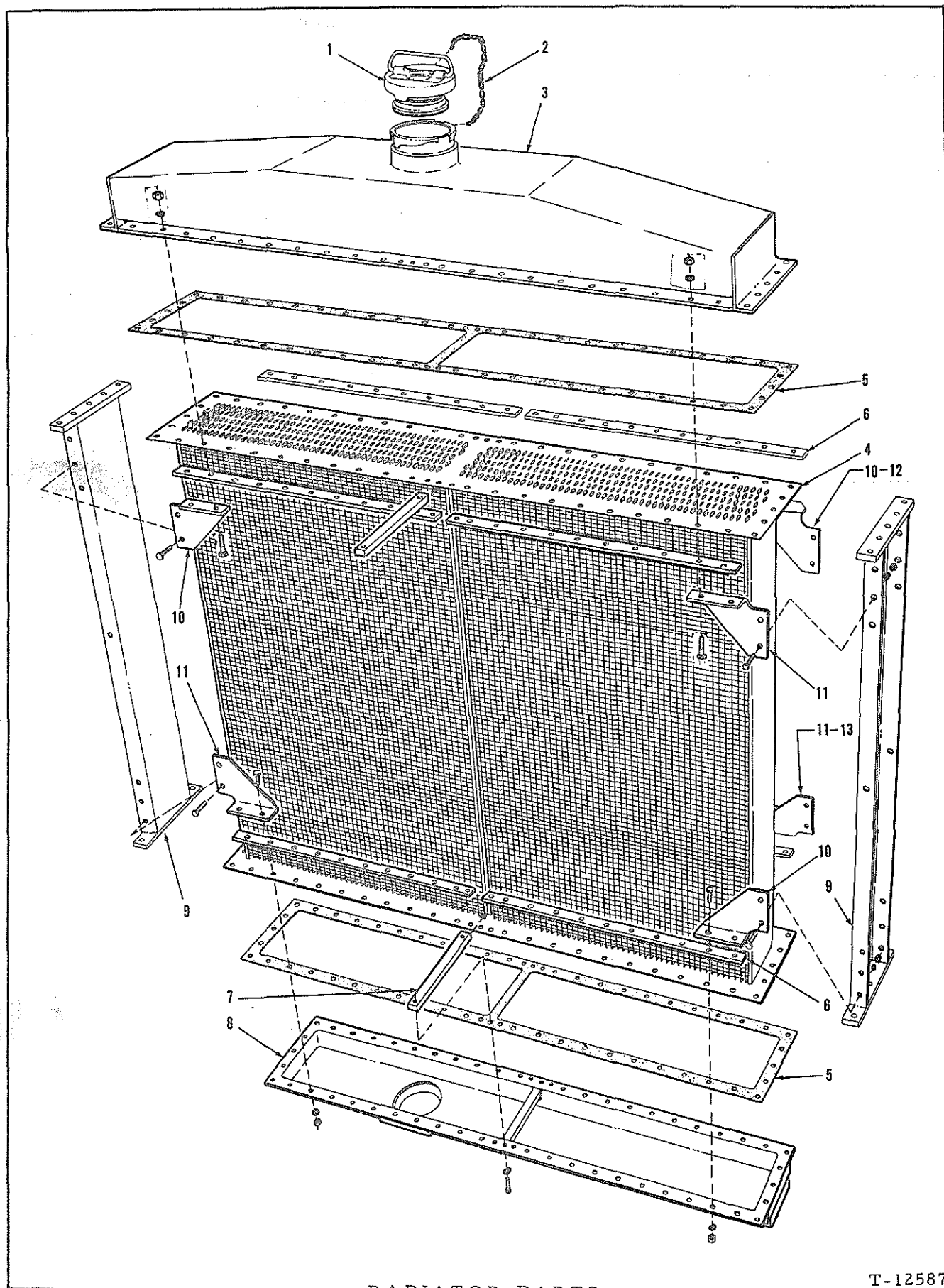
REVERSIBLE FAN PARTS ("Huber")

USAGE: See page 89



ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	6	BLADE (See NOTE below)
2	668595	6	SPRING
3	668592 926339	1 6	COVER, dust CAPSCREW, #10-24 x 5/16" (Includes lockwasher)
4	918623	6	PIN, blade retaining, outer (3/8" O.D.)
5	927229	6	PIN, blade retaining, inner (7/32" O.D.)
6	-----	1	HUB (See NOTE below)

NOTE: Blade and Hub replacements require precision balancing. Return complete fan to HUBER REVERSIBLE FAN CO., 2103 Hershey Rd., Erie, Pa. 16509.



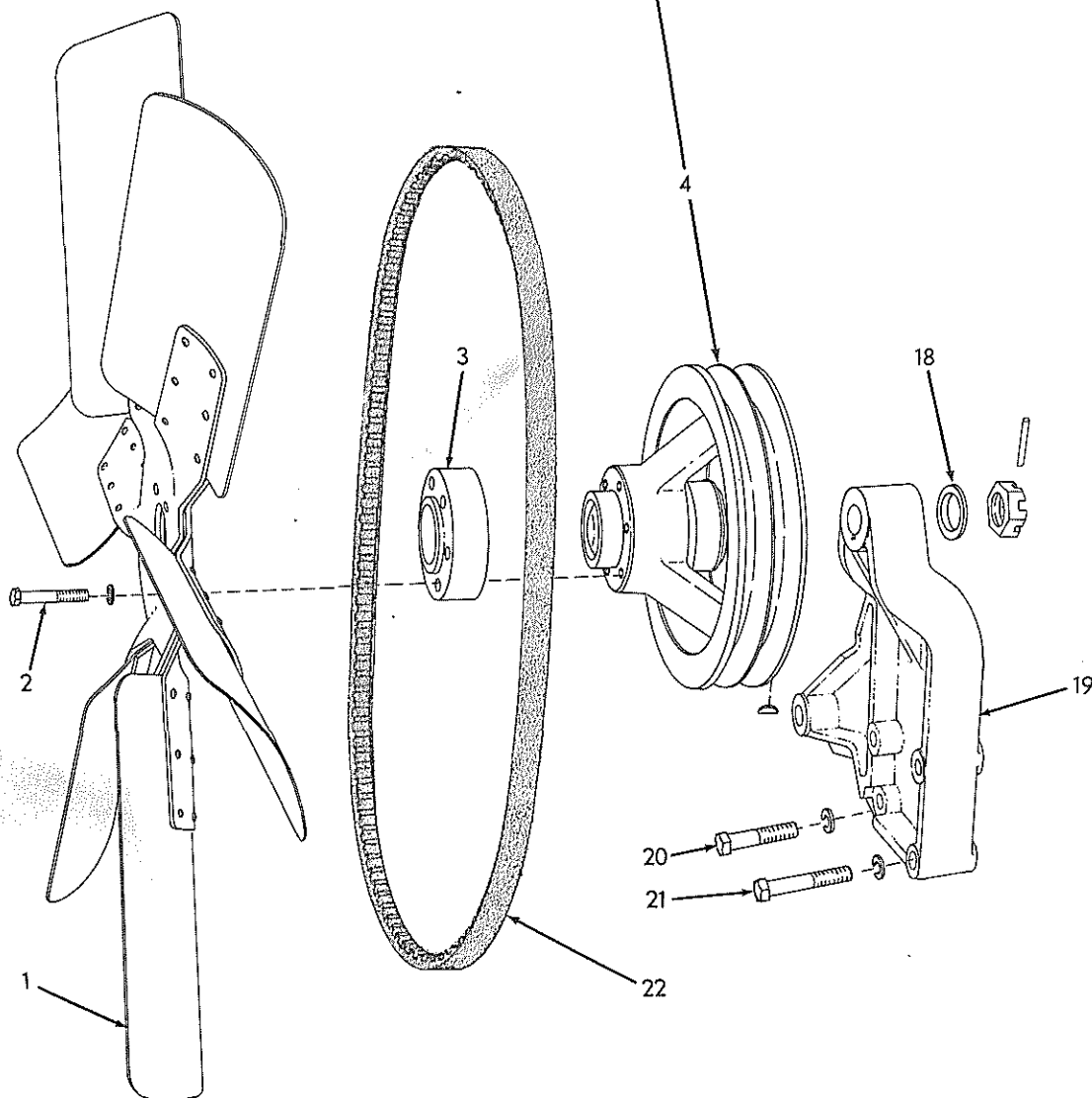
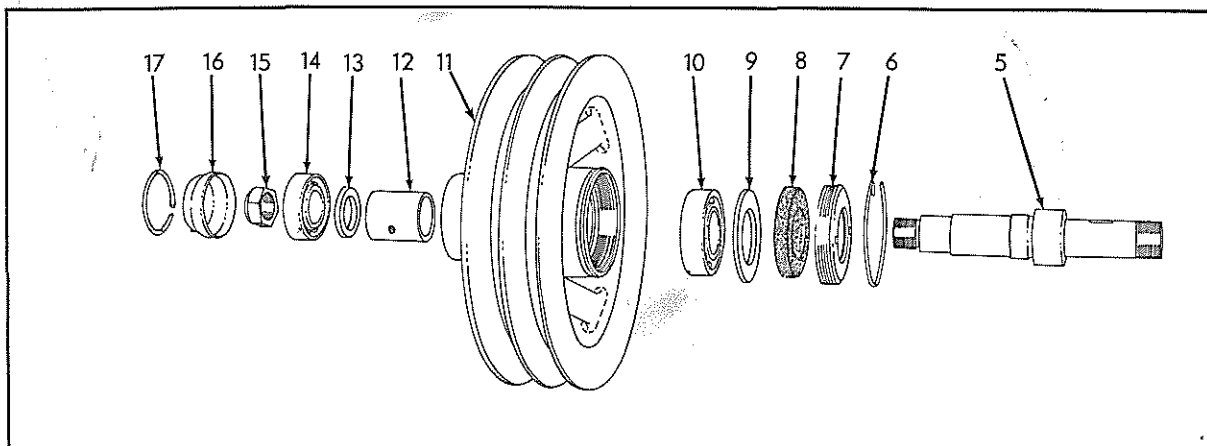
RADIATOR PARTS

T-12587

RADIATOR PARTS

* 666955 RADIATOR ASSEMBLY } See page 83
 ** 666832 RADIATOR ASSEMBLY }

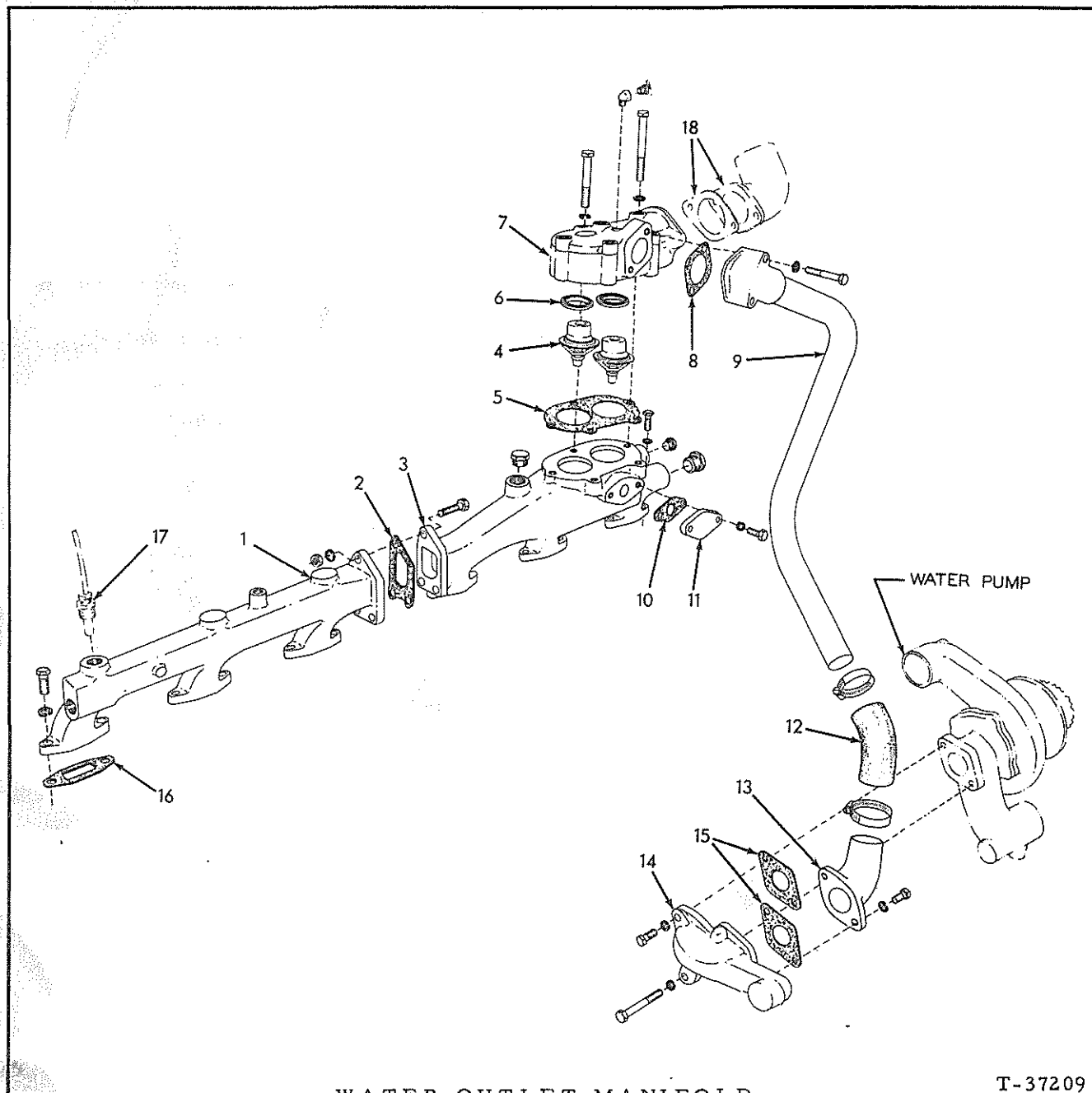
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	654096	1	1	CAP ASSEMBLY, filler (Includes gasket)
2	654098	1	1	CHAIN, filler cap
3	666831	1	1	TANK, top
	903773	54	50	CAPSCREW, 5/16"NC x 1-1/4"
	903772	-	4	CAPSCREW, 5/16"NC x 1"
	904205	54	54	LOCKWASHER, 5/16"
	911025	54	50	NUT, 5/16"NC
4	083071	1	-	CORE
	632647	-	1	CORE
5	083599	2	2	GASKET, core
6	083072	8	8	CLAMP, core flange
7	083065	2	2	CLAMP, core center
	903772	4	4	CAPSCREW, 5/16"NC x 1"
	904205	4	4	LOCKWASHER, 5/16"
8	083068	1	1	TANK, bottom
	903773	54	50	CAPSCREW, 5/16"NC x 1-1/4"
	903772	-	4	CAPSCREW, 5/16"NC x 1"
	904205	54	54	LOCKWASHER, 5/16"
	911025	48	44	NUT, 5/16"NC
9	083073	2	2	SIDE
10	083069	4	2	GUSSET, corner
	903772	8	4	CAPSCREW, 5/16"NC x 1"
	904205	8	4	LOCKWASHER, 5/16"
	911025	8	4	NUT, 5/16"NC
11	083070	4	2	GUSSET, corner
	903772	8	4	CAPSCREW, 5/16"NC x 1"
	904205	8	4	LOCKWASHER, 5/16"
	911025	8	4	NUT, 5/16"NC
12	642254	-	2	GUSSET, corner
	903772	-	4	CAPSCREW, 5/16"NC x 1"
	904205	-	4	LOCKWASHER, 5/16"
	911025	-	4	NUT, 5/16"NC
13	642255	-	2	GUSSET, corner
	903772	-	4	CAPSCREW, 5/16"NC x 1"
	904205	-	4	LOCKWASHER, 5/16"
	911025	-	4	NUT, 5/16"NC



FAN

* Tractors prior to serial No. 16195
 ** Tractors serial No. 16195 and up

ITEM	PART NO.	QTY. * **		DESCRIPTION
1	078393	1	1	FAN (Push type)(Standard equipment)
	065777	1	1	FAN (Suction type)(Special equipment)
	666518	1	1	FAN ASSY., reversible (Special equipment)(See page 85 for parts)
2	916273	-	6	CAPSCREW, 3/8"NC x 1-3/4" } (For push fan)
	013058	6	-	CAPSCREW, 3/8"NC x 1-1/4" }
	915990	6	-	CAPSCREW, 3/8"NC x 2-3/4" } (For suction fan)
	919227	-	6	CAPSCREW, 3/8"NC x 3-1/4" }
	916271	6	6	CAPSCREW, 3/8"NC x 1" (For reversible fan)
	904206	6	6	LOCKWASHER, 3/8"
3	669548	-	1	SPACER, fan (1/2" wide)(For use with push fan only)
	083461	1	-	SPACER, fan (1-9/32" wide) } For use with suction fan only
	668850	-	1	SPACER, fan (2" wide)
4	662058	1	-	PULLEY ASSY. (Consists of items 5 thru 17)
	669558	-	1	PULLEY ASSY. (Consists of items 5 thru 17)
	913798	1	1	NUT, jam, slotted, 1-1/4"NF
	915692	1	1	PIN, roll, 1/4" x 1-7/8"
	905122	1	1	KEY, #7 woodruff, 1/8" x 1-3/4"
5	662038	1	1	SPINDLE
6	4371707	1	1	RING, snap, fan pulley
7	4640973	1	1	RETAINER, spindle sealing washer
8	052106	1	1	WASHER, spindle sealing (cork)
9	4640975	1	1	WASHER, retaining, rear bearing
10	075203	1	1	BEARING, ball, rear
11	092122	1	-	PULLEY
	669557	-	1	PULLEY
12	051715	1	1	SLEEVE, spacing, spindle bearings
13	4640978	1	1	WASHER, spacing, front bearing
14	4253862	1	1	BEARING, ball, front
15	919108	1	1	NUT, spindle (self-locking, 7/8"NF)
16	088561	1	1	CAP, pulley
17	4042081	1	1	RING, snap, cap retaining
18	067962	1	1	WASHER, plain
19	666760	1	1	BRACKET, fan mounting
20	035712	1	1	CAPSCREW, 1/2"NC x 2-1/4"
21	041917	2	2	CAPSCREW, 1/2"NC x 3-1/4"
	904208	3	3	LOCKWASHER, 1/2"
22	667360	2	2	BELT, fan (Furnished in matched pairs)



WATER OUTLET MANIFOLD

T-37209

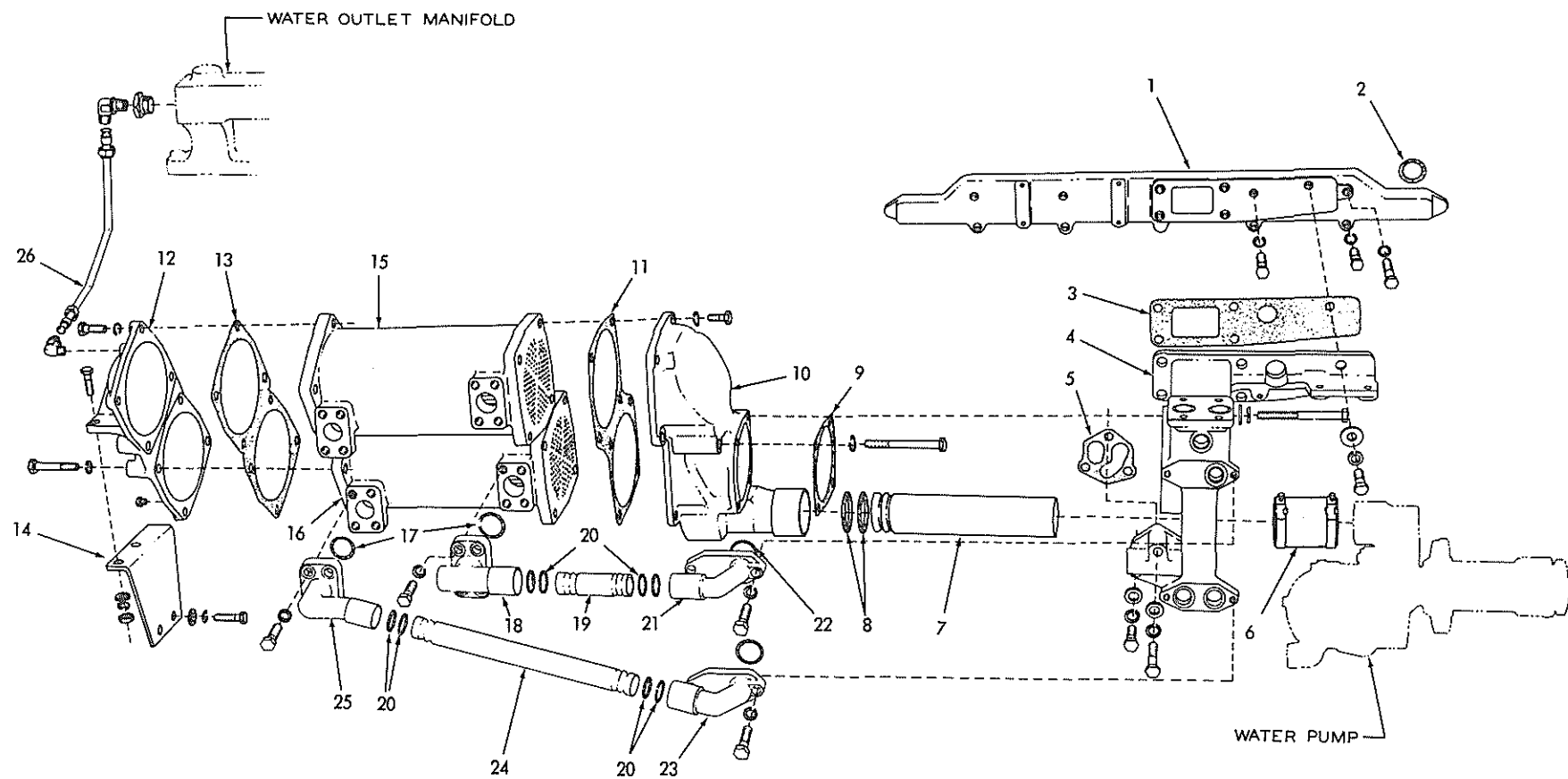
ITEM	PART NO.	QTY.	DESCRIPTION
1	4386827	1	MANIFOLD, rear
	919224	6	CAPSCREW, 3/8"NC x 1-1/8"
	919226	3	CAPSCREW, 3/8"NC x 1-5/8"
	904206	9	LOCKWASHER, 3/8"
	910324	3	NUT, 3/8"NC
2	4376527	1	□GASKET, manifold connecting

(Continued)

WATER OUTLET MANIFOLD (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
3	4388563	1	MANIFOLD, front (When making first replacement also order items 10 and 11)
	919840	1	PLUG, pipe, hex-hd., 1/4"NPT
	920416	1	PLUG, pipe, hex-hd., 1/2"NPT
	920525	1	PLUG, pipe, hex-hd., 3/4"NPT
	919224	6	CAPSCREW, 3/8"NC x 1-1/8"
	904206	6	LOCKWASHER, 3/8"
4	4354537	2	THERMOSTAT
5	4376520	1	OGASKET, thermostat cover
6	4317554	2	SEAL, thermostat
7	4389036	1	COVER ASSEMBLY, thermostat (Includes item 6)
	914588	1	ELBOW, street, brass, 90°, 1/4"NPT
	912415	1	COCK, T-handle, 1/4"NPT (For venting air)
	918395	4	CAPSCREW, 7/16"NC x 3-1/4"
	918740	1	CAPSCREW, 7/16"NC x 4"
	904207	5	LOCKWASHER, 7/16"
8	4386137	1	OGASKET, water by-pass tube
9	4386891	1	TUBE, water by-pass
	916274	2	CAPSCREW, 3/8"NC x 2-1/4"
	904206	2	LOCKWASHER, 3/8"
10	4362458	1	OGASKET, manifold cover
11	4313015	1	COVER, front manifold
	915408	2	CAPSCREW, 3/8"NC x 3/4"
	904206	2	LOCKWASHER, 3/8"
12	4386894	1	ELBOW, water by-pass tube (rubber)
	922198	2	CLAMP, hose, 1-9/16" to 2-9/16" diam.
13	4386881	1	ELBOW, water by-pass line
	916271	2	CAPSCREW, 3/8"NC x 1"
	904206	2	LOCKWASHER, 3/8"
14	4391237	1	FLANGE, water pump
	916272	1	CAPSCREW, 3/8"NC x 1-1/4"
	920275	1	CAPSCREW, 3/8"NC x 3"
	904206	2	LOCKWASHER, 3/8"
15	4378112	2	OGASKET, water pump flange
16	4376483	6	OGASKET, manifold to head
17	-----	-	GAUGE, temperature (See INSTRUMENTS)
18	-----	-	ELBOW AND GASKET (See RADIATOR AND MOUNTING)

Not original equipment
See item 3



WATER INLET MANIFOLD AND HEAT EXCHANGERS

T-73033

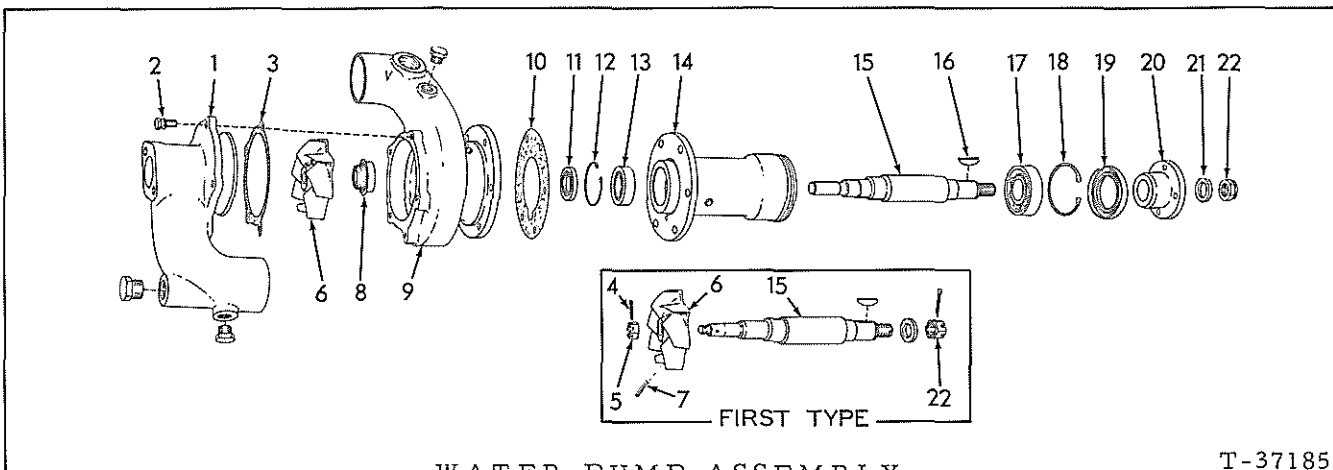
WATER INLET MANIFOLD AND HEAT EXCHANGERS

ITEM	PART NO.	QTY.	DESCRIPTION
1	4389289	1	MANIFOLD, water inlet
	919231	4	CAPSCREW, 1/2"NC x 1-7/8"
	916317	3	CAPSCREW, 1/2"NC x 2-3/4"
	916318	1	CAPSCREW, 1/2"NC x 3-1/4" (Also attaches water filter hose bracket)
	904208	8	LOCKWASHER, 1/2"
2	925612	12	□O-RING, water inlet manifold
3	4389291	1	□GASKET, water and oil manifold
4	4391462	1	MANIFOLD, water and oil
	916311	5	CAPSCREW, 1/2"NC x 1-1/4"
	915987	2	CAPSCREW, 1/2"NC x 1-1/2"
	916320	1	CAPSCREW, 1/2"NC x 4"
	904208	8	LOCKWASHER, 1/2"
	912333	8	WASHER, plain
5	4386495	1	□GASKET, manifold to block
6	4662263	1	HOSE, heat exchanger to water pump
	922199	2	CLAMP, hose, 2-9/16" to 3-9/16" diam.
7	4388185	1	TUBE, pump to bonnet
8	923651	2	□O-RING, bonnet tube
9	4371160	1	□GASKET, heat exchanger adaptor
10	4387418	1	ADAPTOR, heat exchanger
	919294	2	CAPSCREW, 1/2"NC x 4-1/4" } To exchanger
	915987	6	CAPSCREW, 1/2"NC x 1-1/2" }
	916322	4	CAPSCREW, 1/2"NC x 5" (To manifold)
	904208	12	LOCKWASHER, 1/2"
	916009	4	WASHER, plain
11	4389678	1	□GASKET, heat exchanger adaptor
12	4388465	1	BONNET, heat exchanger
	919840	1	PLUG, pipe, hex-hd., 1/4"NPT
	915987	4	CAPSCREW, 1/2"NC x 1-1/2" } To heat exchanger
	915969	4	CAPSCREW, 1/2"NC x 3" }
	904208	8	LOCKWASHER, 1/2" }
	916272	2	CAPSCREW, 3/8"NC x 1-1/4" } To supporting bracket
	911115	2	WASHER, plain, SAE std., 3/8" }
	904206	2	LOCKWASHER, 3/8" }
	910324	2	NUT, 3/8"NC }
13	4389676	1	□GASKET, heat exchanger bonnet
14	4387453	1	BRACKET, supporting, heat exchanger
	922290	2	CAPSCREW, 1/2"NC x 2"
	910244	2	WASHER, plain, SAE std., 1/2"
	904208	2	LOCKWASHER, 1/2"
15	4390506	1	EXCHANGER, heat, transmission oil
16	4390588	1	EXCHANGER, heat, engine oil
17	4255781	2	□O-RING, heat exchanger elbows

(Continued)

WATER INLET MANIFOLD AND HEAT EXCHANGERS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
18	4390591	1	ELBOW, heat exchanger discharge
	916191	4	CAPSCREW, 7/16" NC x 1-1/2"
	904207	4	LOCKWASHER, 7/16"
19	4390595	1	TUBE, heat exchanger discharge
20	4255631	8	□O-RING, heat exchanger tubes
21	4390592	1	ELBOW, oil manifold, upper
	919225	1	CAPSCREW, 3/8"NC x 1-3/8"
	912069	1	CAPSCREW, 3/8"NC x 2-1/2"
	904206	2	LOCKWASHER, 3/8"
22	4255631	2	□O-RING, oil manifold elbows
23	4390589	1	ELBOW, oil manifold, lower
	919225	1	CAPSCREW, 3/8"NC x 1-3/8"
	912069	1	CAPSCREW, 3/8"NC x 2-1/2"
	904206	2	LOCKWASHER, 3/8"
24	4390594	1	TUBE, heat exchanger intake
25	4390590	1	ELBOW, heat exchanger intake
	916191	4	CAPSCREW, 7/16"NC x 1-1/2"
	904207	4	LOCKWASHER, 7/16"
26	4390582	1	TUBE ASSEMBLY, air bleed (Includes NUTS and SLEEVES indented below)
	917809	2	NUT, Imperial, 1/4" tube
	917806	2	SLEEVE, Imperial, 1/4" tube
	919481	2	ELBOW, Imperial, 1/4" tube, 1/4"NPT male
	901839	1	BUSHING, pipe reducing, 1/2"NPT to 1/4"NPT



WATER PUMP ASSEMBLY

T-37185

USAGE: See page 96

* Engines prior to No. 21-11619

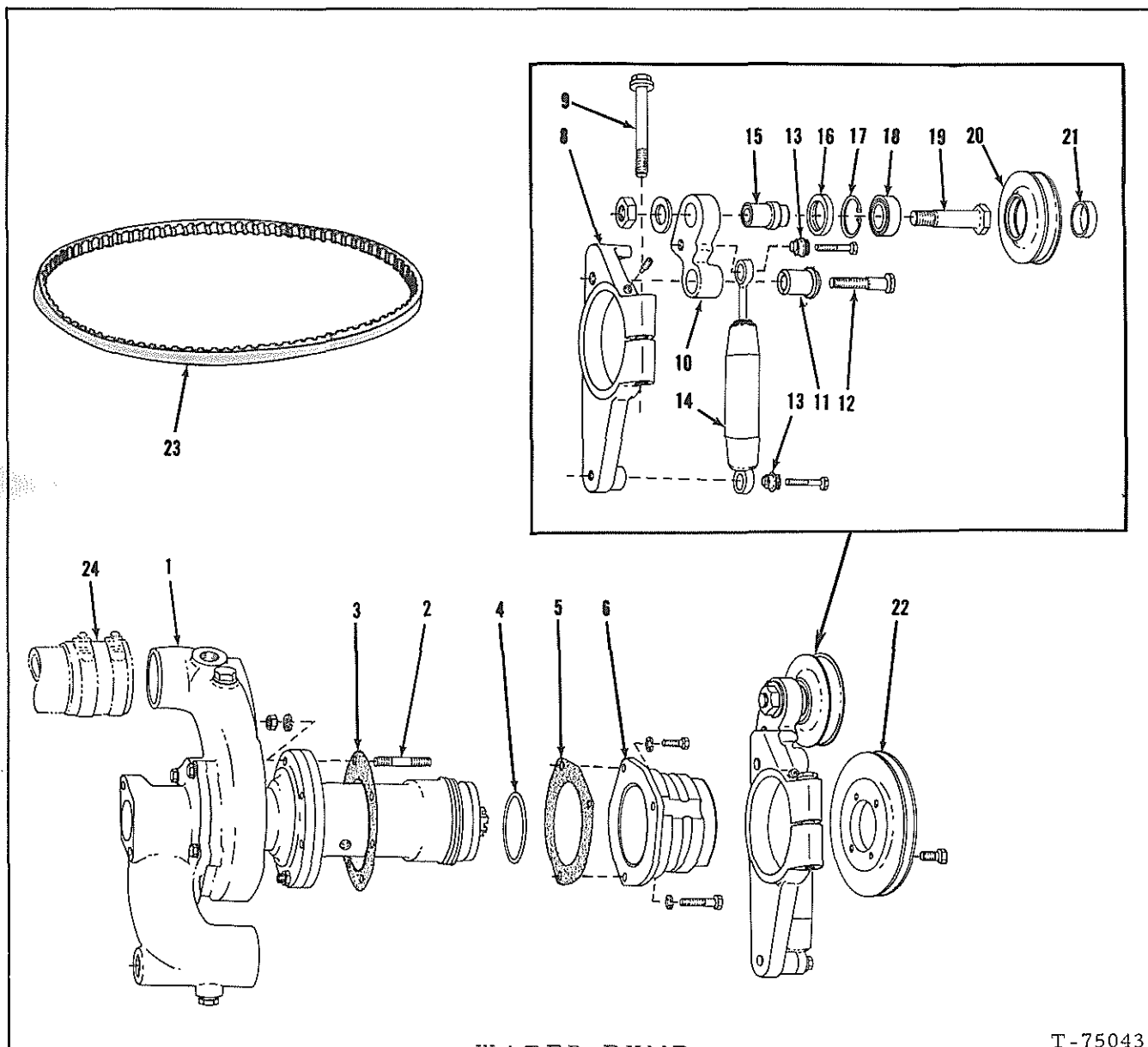
** Engines No. 21-11619 and up

ITEM	PART NO.	QTY. * **	DESCRIPTION
-	4387607-7	1 -	PUMP ASSY., water (Includes items 1 thru 22)
-	4393323-3	- 1	PUMP ASSY., water (Includes items 1, 2, 3, 6, 8 thru 22)
1	4375682-4	1 1	COVER, pump inlet
	0920333-2	1 1	PLUG, pipe, hex-hd., 3/8"NPT
	0920416-5	1 1	PLUG, pipe, hex-hd., 1/2"NPT
2	4041092-0	4 4	CAPSCREW ASSY. (Includes lockwasher)
3	4372421-0	1 1	GASKET, pump inlet cover
4	4041097-9	1 -	PIN, cotter, impeller retaining nut
5	4375686-5	1 -	NUT, impeller retaining
6	{ 4389359-3	1 -	IMPELLER ASSY. } Each includes ceramic insert
	{ 4393324-1	- 1	IMPELLER ASSY. }
7	4375694-0	1 -	PIN, impeller retaining
8	4386862-9	1 1	SEAL ASSY. (Serviced only as a unit)
9	4387609-3	1 1	BODY, pump
	0920333-2	1 1	PLUG, pipe, hex-hd., 3/8"NPT
10	4387051-8	1 1	GASKET, pump body
11	4387605-1	1 1	SEAL, oil, rear end
12	4254100-3	1 1	RING, snap, rear bearing
13	4255338-8	1 1	BEARING, roller (rear)
14	4387050-0	1 1	SLEEVE, extension

(Continued)

WATER PUMP ASSEMBLY (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
15	4387606-9	1 -	SHAFT
	4393325-8	- 1	SHAFT
16	4660677-8	1 1	KEY, pump shaft
17	4253871-0	1 1	BEARING, ball (front)
18	4253318-2	1 1	RING, snap, front bearing
19	4254948-5	1 1	SEAL, oil, front end
20	4386924-7	1 1	HUB, drive
21	4375691-5	1 1	WASHER, hub retaining
22	4052167-6	1 -	NUT, hub retaining
	0900808-7	1 -	PIN, cotter, 1/8" x 1-1/2"
	0918182-7	- 1	NUT, self-locking, 3/4"NF (plated)



WATER PUMP

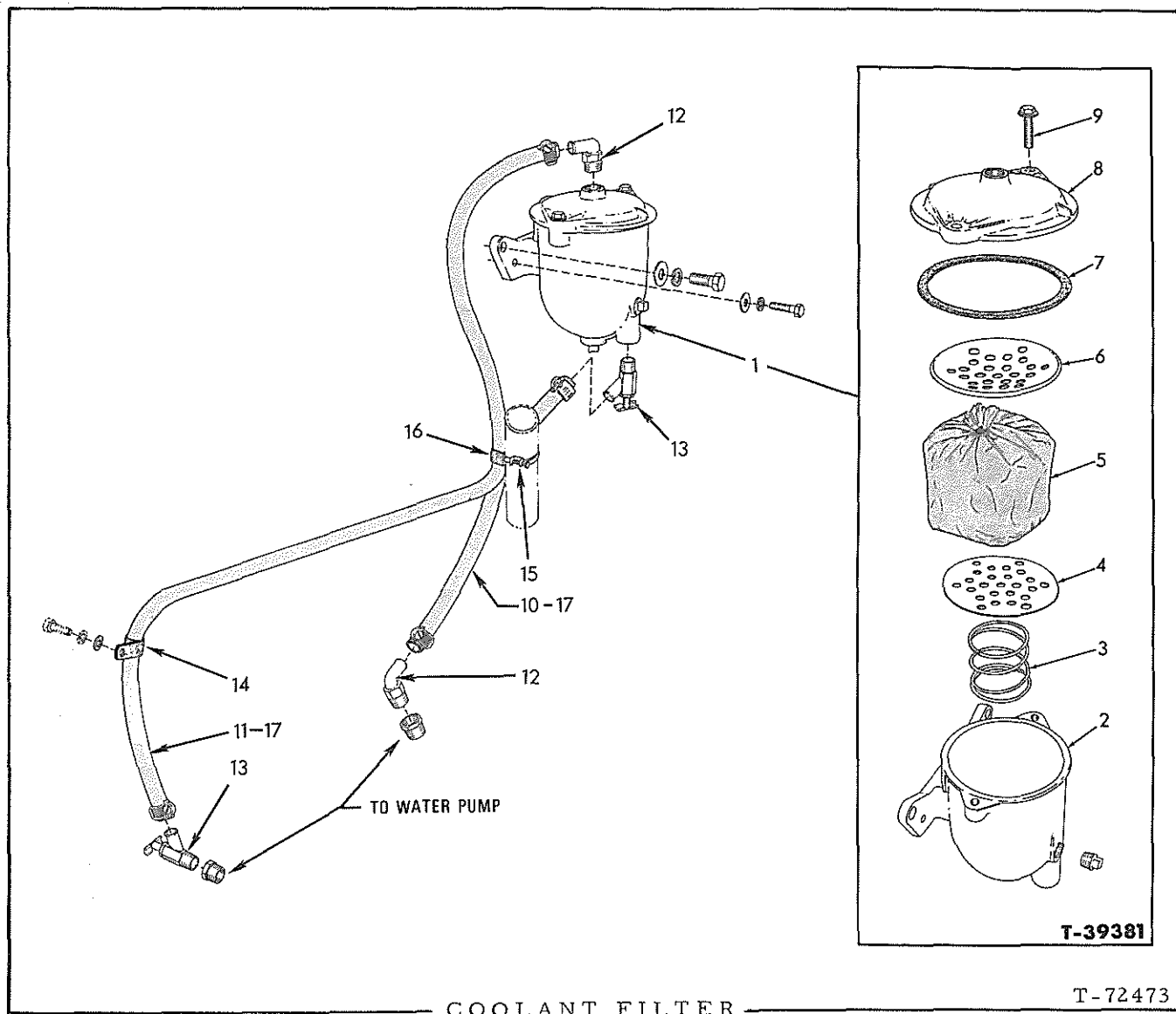
T-75043

Replaces page 96 in HD21 Series B Parts Catalog 0664645-9
Printed in U. S. A.

(Revised October 1971)

WATER PUMP

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	PUMP ASSY. (See page 95)
2	4513810-4	5	STUD, attaching
	0904206-0	5	LOCKWASHER, 3/8"
	0910123-9	5	NUT, 3/8"NF
3	4376398-6	1	☐ GASKET, pump mounting
4	0923935-1	1	☐ O-RING, pump body
5	4361740-6	1	☐ GASKET, idler support
6	4391003-3	1	SUPPORT, belt tightening idler
	0919224-6	1	CAPSCREW, 3/8"NC x 1-1/8"
	0912069-2	2	CAPSCREW, 3/8"NC x 2-1/2"
	0904206-0	3	LOCKWASHER, 3/8"
8	4391950-5	1	BRACKET, idler mounting
	0913683-9	1	SETSCREW, hex-socket, dog-pt., 3/8"NC x 1"
9	0924863-4	1	SCREW, bracket clamping
10	4391949-7	1	ARM ASSY., idler (Includes item 11)
11	4391933-1	1	BUSHING, idler arm pivot (flex-type)
12	4391955-4	1	CAPSCREW, idler arm retaining
13	4391934-9	2	BUSHING, damper mounting (flex-type)
14	4391938-0	1	DAMPER ASSY. (Includes item 13)
	0919225-3	2	CAPSCREW, 3/8"NC x 1-3/8"
15	4390992-8	1	SHAFT, idler pulley
16	4255839-5	1	SEAL, oil, idler pulley
17	4254100-3	1	RING, snap, idler pulley
18	4391154-4	1	BEARING, ball, idler pulley
19	4390655-1	1	BOLT, idler pulley
	0910847-3	1	NUT, jam, 3/4"NF
	0923421-2	1	WASHER, plain
20	4390995-1	1	PULLEY, idler
21	4255110-1	1	CAP, idler pulley
22	4391593-3	1	PULLEY
	4752002-8	4	BOLT, self-locking, 3/8"NF x 1/2"
23	4391351-6	1	BELT, pump driving
24	-----	1	HOSE (See WATER INLET MANIFOLD AND HEAT EXCHANGER)

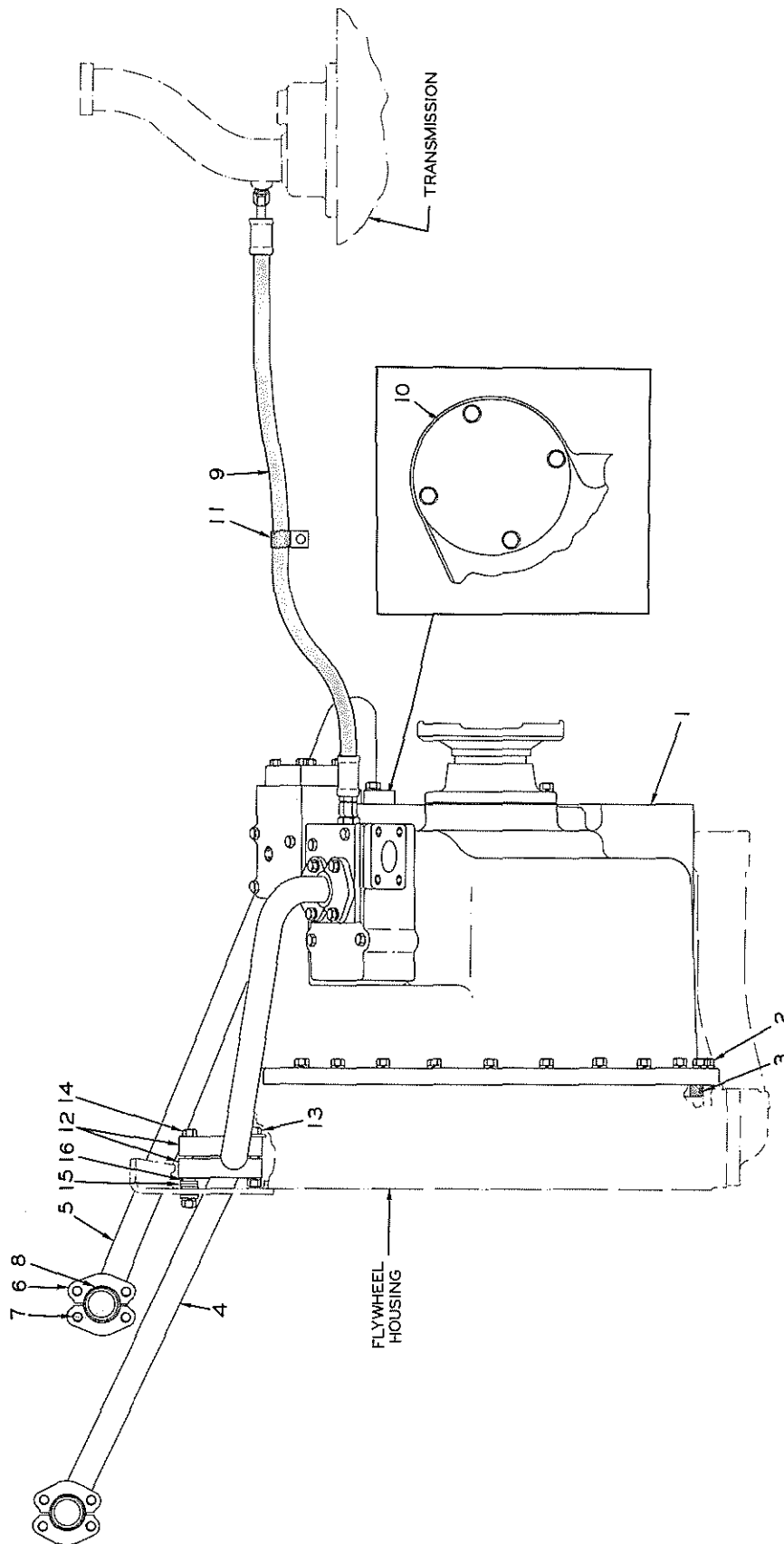


ITEM	PART NO.	QTY.	DESCRIPTION
1	4359248	1	FILTER ASSEMBLY, water (Consists of items 2 thru 9. Has element for use with permanent anti-freeze)
	916311	2	CAPSCREW, 1/2"NC x 1-1/4"
	900818	2	WASHER, plain, U.S. std., 1/2"
	904208	2	LOCKWASHER, 1/2"
	914670	2	CAPSCREW, 5/16"NC x 1-1/8"
	901165	2	WASHER, plain, U.S. std., 5/16"
	904205	2	LOCKWASHER, 5/16"
2	4055031	1	BODY, filter
	920131	2	PLUG, pipe, 3/8"NPT
3	4054569	1	SPRING, filter element
4	4054568	1	PLATE, filter element, lower

(Continued)

COOLANT FILTER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
5	4059380-8	1	ELEMENT KIT, filter (Includes items 4, 6 and 7)(Chromate type, for use with "Dowthern" 209)
	4059979-7	1	ELEMENT KIT, filter (Includes items 4, 6 and 7)(Original equipment. All-purpose, recommended for use with plain water as well as most type of permanent and non-permanent anti-freeze except "Dowthern" 209)
6	4055034-5	1	PLATE, filter element, upper
7	4054566-7	1	GASKET, filter cover
8	4055032-9	1	COVER, filter
9	4055033-7	2	BOLT ASSY., filter cover (Includes washer)
10	-----	1	HOSE, water pump to filter (14-1/2" long. Order item 17)
	0921911-4	2	CLAMP, hose, 11/16" to 1-1/4" diam.
11	-----	1	HOSE, filter to water pump (44-1/4" long. Order item 17)
	0921911-4	2	CLAMP, hose, 11/16" to 1-1/4" diam.
12	4255286-9	2	ELBOW, water hose (90°, 5/8" nipple, 3/8"NPT)
	0902071-0	1	BUSHING, pipe reducing, 1"NPT to 3/8"NPT
13	4255287-7	2	VALVE, water shut-off (5/8" nipple, 3/8"NPT)
	0904271-4	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT
14	0622992-6	1	CLAMP, water inlet hose
	0911115-4	1	WASHER, plain, SAE std., 3/8"
15	0919789-8	1	CLAMP, hose binding
16	4388574-8	1	SLEEVE, hose binding clamp (plastic)
17	0920722-6	-	HOSE, rubber, 5/8" I.D., 25 ft. roll (Use as required)



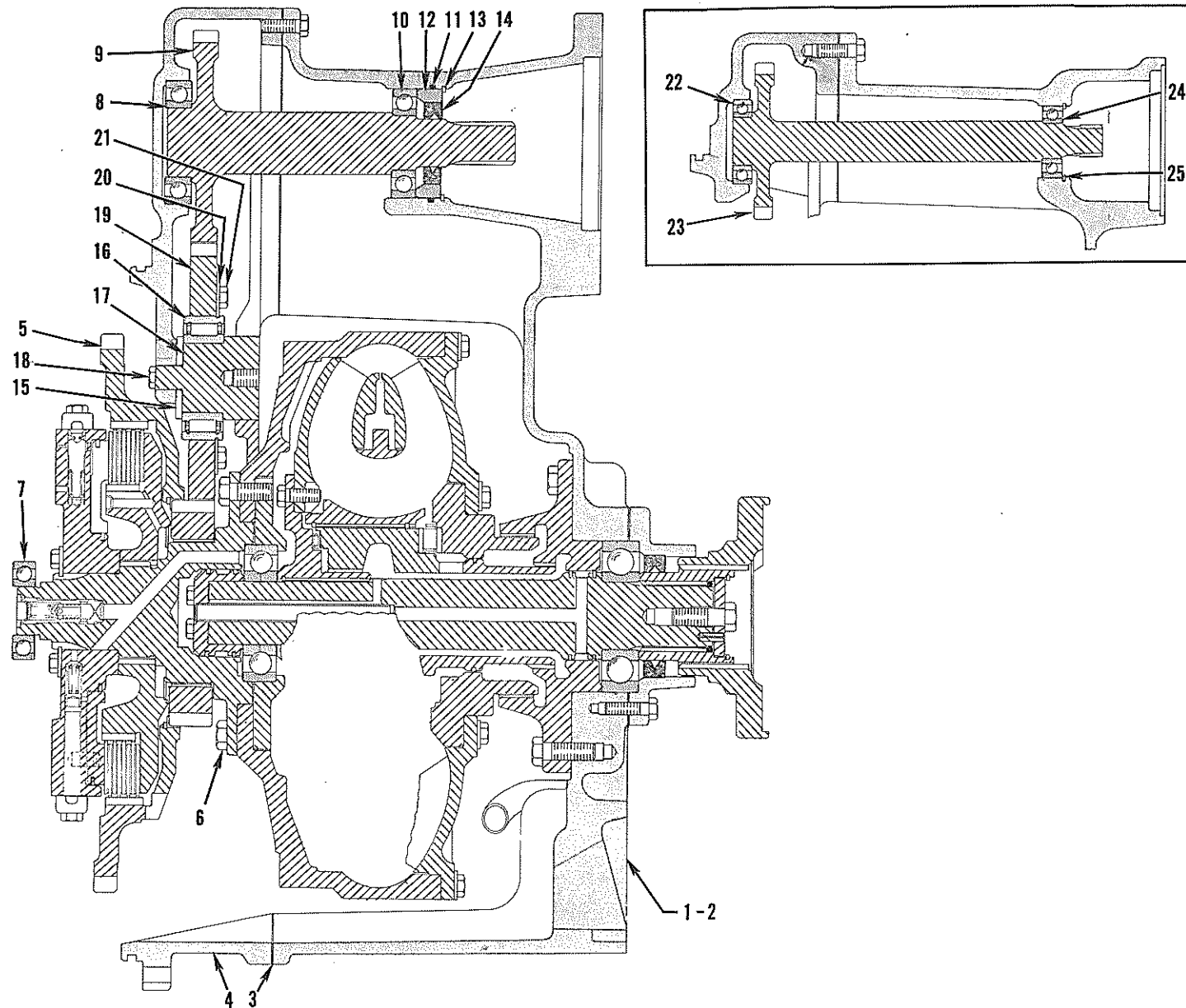
T-75092

TORQUE CONVERTER

TORQUE CONVERTER

ITEM	PART NO.	QTY.	DESCRIPTION
1	654305	1	CONVERTER ASSY., torque (See page 103 for parts. Includes engine clutch)
2	040013	19	CAPSCREW, 7/16"NC x 1-3/4"
	904207	19	LOCKWASHER, 7/16"
3	924828	1	O-RING, torque converter to flywheel housing
4	666791	1	TUBE, converter to heat exchanger
5	666790	1	TUBE, heat exchanger to converter
6	921117	8	FLANGE, tube and hose attaching (half only)
7	041250	16	CAPSCREW, 7/16"NC x 1-1/4"
	904207	16	LOCKWASHER, 7/16"
8	923664	4	O-RING, hose flange
9	664399	1	HOSE, breather line (See HOSE PARTS)
	919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
	919127	1	CONNECTOR, flare type, 3/8" tube, 1/2"NPT male
10	666957	1	COVER, dozer pump drive
	916310	4	CAPSCREW, 1/2"NC x 1" } Not used on units with
	904208	4	LOCKWASHER, 1/2" } special hydraulic dozer
11	094467	2	CLIP, breather hose supporting (3/4" diam.)
12	658514	2	BLOCK, tube supporting
13	912069	1	CAPSCREW, 3/8"NC x 2-1/2"
14	919015	1	CAPSCREW, 3/8"NC x 3-1/2"
	044973	1	WASHER, plain
	904206	2	LOCKWASHER, 3/8"
	911026	2	NUT, 3/8"NC
15	044973	3	WASHER, block spacing (large) } Use as required
16	055914	2	WASHER, block spacing (small) }

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



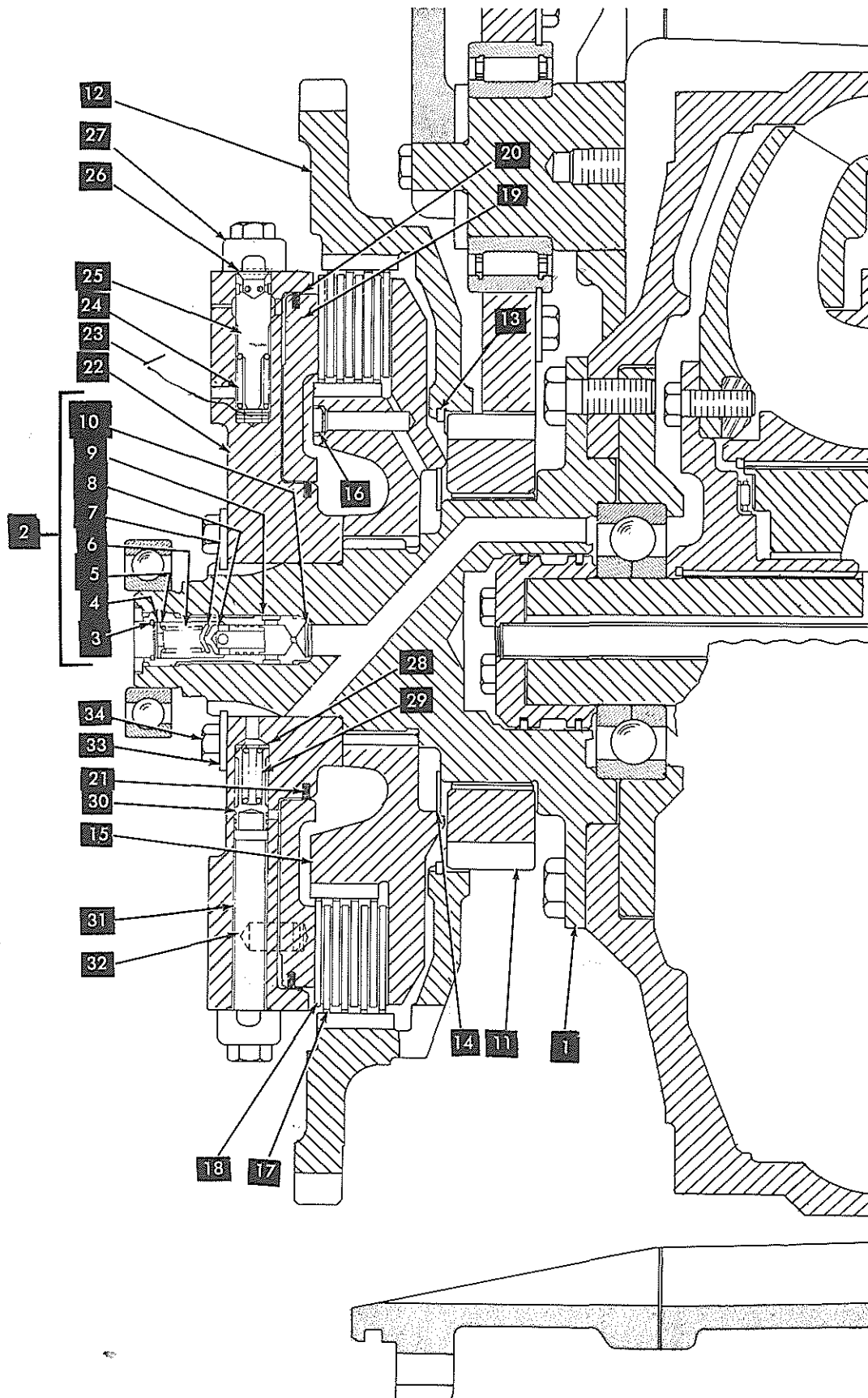
TORQUE CONVERTER ASSEMBLY 654305

T-75087

TORQUE CONVERTER ASSEMBLY 654305

USAGE: See page 101

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	-	TORQUE CONVERTER SUB-ASSEMBLY (See page 107 for parts)
2	916272	16	CAPSCREW, 3/8" NC x 1-1/4"
3	657982	1	GASKET, gear housing
4	657977	1	HOUSING, gear train
5	-----	-	ENGINE CLUTCH SUB-ASSEMBLY (See page 105 for parts)
6	916311	12	CAPSCREW, 1/2" NC x 1-1/4"
7	058974	1	BEARING, ball, front
8	054073	1	BEARING, ball, dozer pump drive, front
9	657981	1	GEAR, dozer pump drive
10	3007501	1	BEARING, ball, dozer pump drive, rear
11	923585	1	O-RING, dozer pump drive
12	657978	1	CARRIER, dozer pump drive o-ring
13	666069	1	RING, snap, carrier retaining
14	655619	1	SEAL, oil, dozer pump drive
15	666071	1	SPACER, idler gear bearing
16	638611	1	BEARING, roller, idler gear
17	657991	1	SHAFT, idler
18	916272	2	CAPSCREW, 3/8" NC x 1-1/4"
19	657958	1	GEAR, idler
20	657989	2	WASHER, retaining, idler gear (half only)
21	639534	4	CAPSCREW, self-locking, 3/8" NF x 5/8"
22	067766	1	BEARING, ball, transmission pump drive, front
23	666042	1	GEAR, transmission pump drive
24	656774	1	BEARING, ball, transmission pump drive, rear
25	056362	1	RING, snap, bearing retaining



ENGINE CLUTCH SUB-ASSEMBLY

T-75094

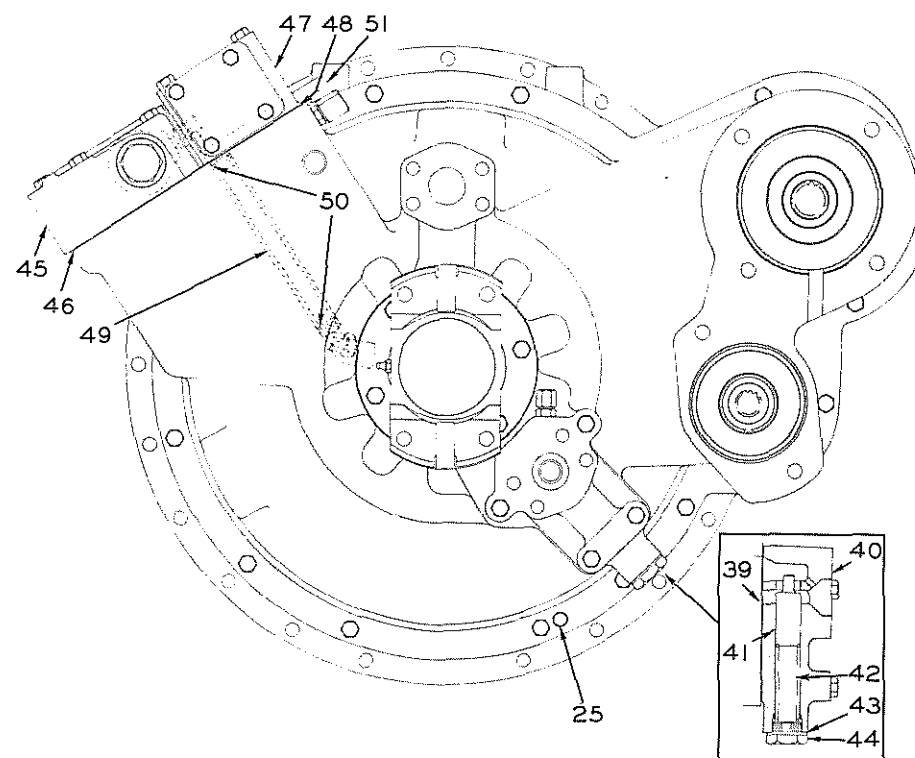
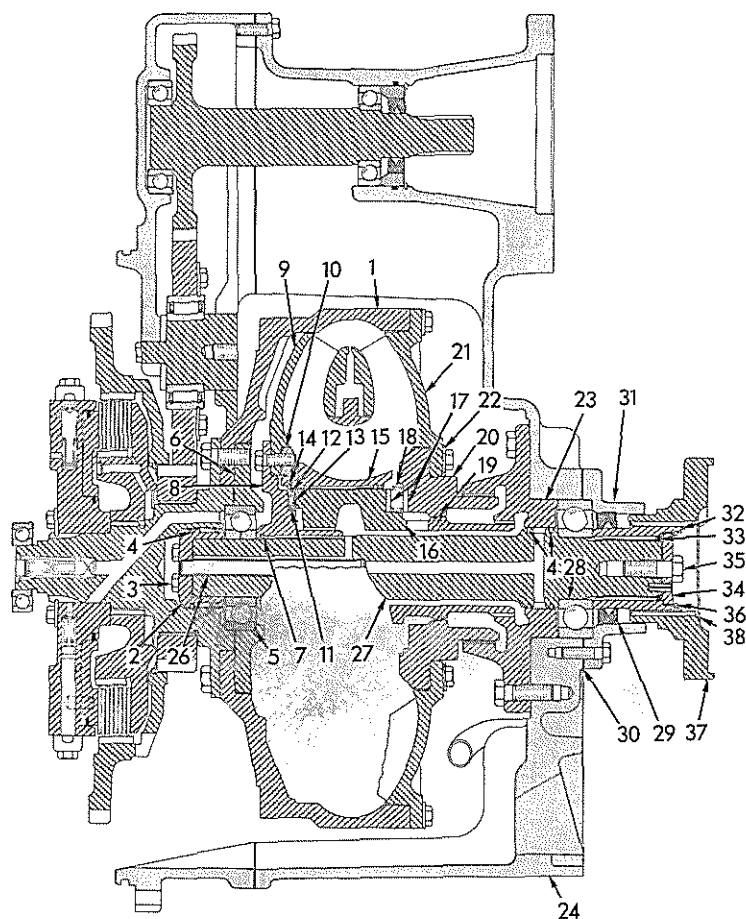
ENGINE CLUTCH SUB-ASSEMBLY

USAGE: See page 103

ITEM	PART NO.	QTY.	DESCRIPTION
1	0670629-5	1	FLANGE, driving (Converters prior to #237180)
	0676093-8	1	FLANGE ASSY., driving (Includes plug indented below)(Converter #237180 and up)
	0676130-8	2	PLUG, pipe, hex-socket, 1/8"NPT
	0911201-2	1	KEY, woodruff #E, 3/8" x 1-1/4"
2	0668837-8	1	VALVE ASSY., check (Consists of items 3 thru 10)
3	0662919-0	1	RING, snap, check valve
4	0662920-8	-	WASHER, shimming (.010" thick)
	0656704-4	-	WASHER, shimming (.024" thick)
	0925966-4	-	WASHER, shimming (.049" thick)
5	0662918-2	1	GUIDE, check valve spring
6	0670631-1	1	SPRING, check valve
7	0662917-4	1	SEAT, check valve spring
8	0662916-6	1	PISTON, check valve
9	-----	1	SLEEVE, check valve (Not serviced separately)
9A	0186451-1	2	O-RING, check valve sleeve
10	0639939-8	1	SCREEN, filtering, check valve
11	0640779-5	1	GEAR ASSY., accessory drive (Includes bushing which is not serviced separately)
12	0657975-9	1	SPIDER
13	3034873-4	1	RING, snap, gear retaining
14	0658023-7	1	PLATE, oil baffle
15	0670628-7	1	HUB ASSY. (Includes items 14 and 16)(If for converters prior to #235370 also order item 15A)
15A	0670386-2	2	WASHER, hub spacing (Half-only)(Effective with Converter#235370)
16	0638767-4	12	PLUG, core, 7/16" diam.
17	0657979-1	4	PLATE, friction (bi-metallic).
18	0657967-6	4	PLATE, friction (steel)
19	0657970-0	1	PISTON, clutch engaging
20	0658931-1	1	GASKET piston sealing (outer)
21	0666039-3	1	GASKET, piston sealing (inner)
22	0666037-7	1	CARRIER ASSY., clutch piston (Includes items 23 thru 32)
23	0656704-4	-	WASHER, shimming (.024" thick)
	0925966-4	-	WASHER, shimming (.049" thick)
24	0665851-2	1	SPRING, pressure relief valve
25	0667055-8	1	PISTON, pressure relief valve
26	0639939-8	1	FILTER, pressure relief valve
27	0657960-1	2	CAP (Converters prior to #237180)
	0675282-8	2	CAP ASSY., relief and overspeed valve (Includes plug indented below)(Converters #237180 and up)
	0927473-9	2	PLUG, pipe, hex-socket, 1/16"NPT
	0916271-0	4	CAPSCREW, 3/8"NC x 1"
28	0656704-4	1	WASHER, overspeed valve
29	0665852-0	1	SPRING, overspeed valve
30	0661583-5	1	PISTON, overspeed valve
31	0666036-9	1	SLEEVE, overspeed valve
32	4054572-5	2	PIN, dowel, piston carrier
33	0668279-3	2	WASHER, retaining, clutch piston carrier (half only)
34	0662973-7	4	BOLT, self-locking, 5/16"NC x 3/4"

Replaces page 105 in HD21 Series B Parts Catalog 0664645-9
Printed in U. S. A.

(Revised October 1971)



TORQUE CONVERTER SUB-ASSEMBLY

USAGE: See page 103

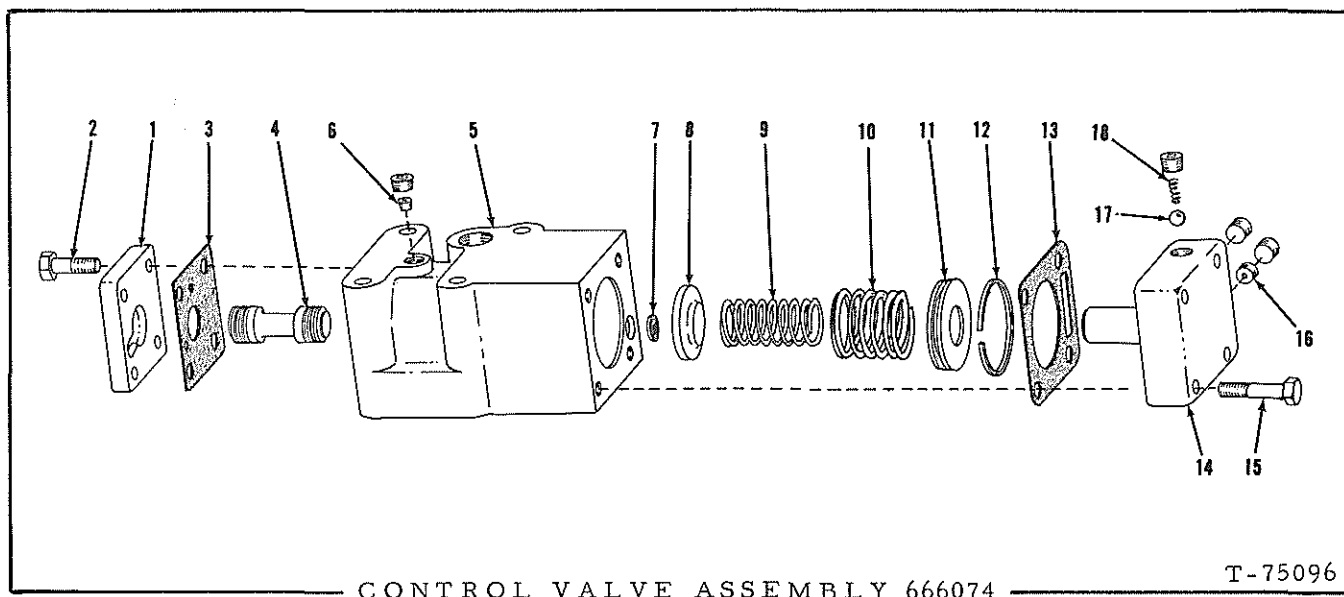
ITEM	PART NO.	QTY.	DESCRIPTION
1	657949	1	HOUSING, rotating
2	668281	1	CARRIER, sealing ring (If for first replacement on Converters prior to #237822 also order 1-RING- 181070)
3	914392	4	CAPSCREW, 5/16"NC x 1" (681070)
4	681070	5	RING, sealing, output shaft
5	186563	1	BEARING, ball, output shaft, front
6	657944	1	CARRIER, front bearing
7	186531	1	RING, snap, turbine wheel hub
8	657947	1	HUB, turbine wheel
	916225	20	CAPSCREW, 3/8" NF x 1"
9	657941	1	WHEEL, turbine
10	657955	1	RING, clamping, turbine wheel
11	657951	1	RACE, front thrust bearing (front)
12	658116	1	BEARING, thrust, front
13	657953	1	RACE, front thrust bearing (rear)
14	657954	2	RING, snap, guide wheel
15	657943	1	WHEEL, guide
16	657945	1	CARRIER ASSEMBLY, guide wheel (Includes bushing which is not serviced separately)
17	657952	2	RACE, rear thrust bearing
18	658115	1	BEARING, thrust, rear
19	665771	1	RING, sealing, guide wheel carrier
20	657948	1	HUB, impeller wheel
21	657942	1	WHEEL, impeller
	919224	36	CAPSCREW, 3/8" NC x 1-1/8"
	657956	36	WASHER, plain
22	657950	1	PLATE, clamping, impeller wheel
	916271	12	CAPSCREW, 3/8" NC x 1"
23	657988	1	SUPPORT ASSEMBLY, guide wheel carrier (Includes bushing which is not serviced separately)
	916311	7	CAPSCREW, 1/2"NC x 1-1/4"
24	657985	1	HOUSING ASSY., stationary (Includes items 24A and 24B)
	926292	1	CONNECTOR, flare-type, 1/4" tube, 9/16"NF male end (Includes O-RING 921885)
	921467	1	CAP, flare type, 1/4" tube
24A	669020	1	TUBE, jumper
24B	669021	1	CLAMP, tube supporting
	903628	1	CAPSCREW, 3/8"NC x 5/8"
	657956	1	WASHER, plain

} Not illustrated

(Continued)

TORQUE CONVERTER SUB-ASSEMBLY (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
25	188309	2	PIN, dowel, stationary housing
26	657999	1	TUBE, oil
27	657998	1	SHAFT, output
28	3007389	1	BEARING, ball, output shaft, rear
29	658114	1	SEAL, oil, rear
30	658026	1	GASKET, rear seal carrier
31	657994	1	CARRIER, rear oil seal
	916272	6	CAPSCREW, 3/8" NC x 1-1/4"
32	657993	1	ADAPTER, output shaft yoke
33	923826	1	O-RING, output shaft, rear
34	658001	1	WASHER, end, output shaft
	915513	1	PIN, spring, 1/4" x 3/4"
35	023416	1	CAPSCREW, drilled-hd., 1/2" NC x 1-1/2"
36	657997	1	RING, snap, output shaft yoke adapter
37	658002	1	YOKE ASSEMBLY, output shaft (Includes item 38 and FITTING indented below)
	914465	1	FITTING, lubricating, straight, 1/8"NPT
38	665761	1	PLUG, dust, output shaft yoke
39	657980	1	GASKET, converter outlet regulator valve
40	657976	1	BODY, converter outlet regulator valve
	920275	4	CAPSCREW, 3/8" NC x 3"
	923163	1	CONNECTOR, flare type, 1/4" tube, 7/16" NF male end (Includes O-RING 921883)
	921467	1	CAP, flare type, 1/4" tube
41	676091	1	PISTON, converter outlet regulator valve
42	657990	1	SPRING, converter outlet regulator valve
43	3035090	1	WASHER, regulator valve plug
44	3035073	1	PLUG, regulator valve
45	677065	1	VALVE ASSEMBLY, pressure regulating and cold oil by-pass (See page 110 for parts)
	920275	4	CAPSCREW, 3/8" NC x 3"
46	657983	1	GASKET, pressure regulating valve
47	666074	1	VALVE ASSY., control,modulating clutch (See page 109 for parts)
	919015	4	CAPSCREW, 3/8"NC x 3-1/2"
48	658008	1	GASKET, modulating clutch valve
49	657992	1	TUBE, oil supply, modulating clutch
50	923561	2	O-RING, oil supply tube
51	657987	1	TUBE ASSY., housing to pressure regulating valve (Includes nuts)
	925983	2	ELBOW, adjustable, 90°, flare type, 3/8" tube, 9/16" male thd.
	921885	2	O-RING, elbow sealing

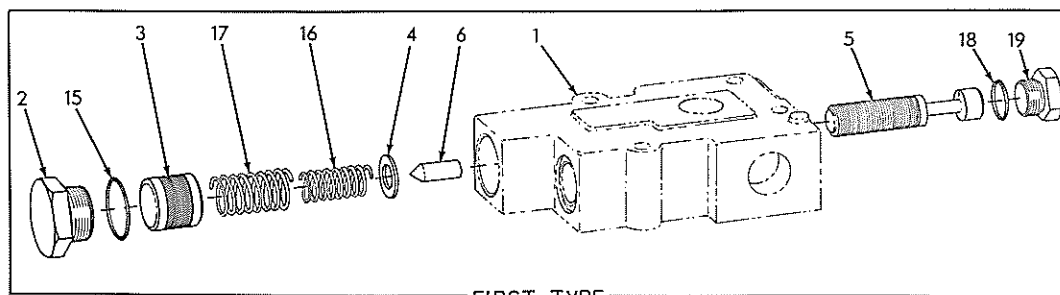


CONTROL VALVE ASSEMBLY 666074

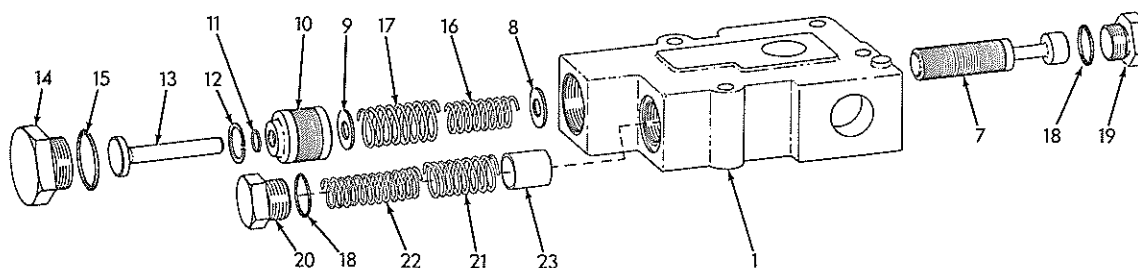
T-75096

USAGE: See page 107

ITEM	PART NO.	QTY.	DESCRIPTION
1	659129	1	CAP, end, valve body
2	914392	4	CAPSCREW, 5/16"NC x 1"
3	658010	1	GASKET, lower cover
4	658013	1	SPOOL, valve
5	658004	1	BODY
	917673	1	PLUG, pipe, hex-socket, 1/8"NPT
6	188168	1	PLUG, orifice body
7	639939	1	FILTER, oil
8	658019	1	SEAT, spring
9	658018	1	SPRING, inner
10	658017	1	SPRING, center
11	658011	1	PISTON
12	3034905	1	RING, piston
13	658009	1	GASKET, upper cover
14	667139	1	COVER ASSY.(Includes pin)
	917673	3	PLUG, pipe, hex-socket, 1/8"NPT
15	046321	4	CAPSCREW, 5/16"NC x 1-1/2"
16	661237	1	PLUG, orifice, upper cover
17	915904	1	BALL
18	658005	1	SPRING



FIRST TYPE



PRESSURE REGULATING VALVE ASSEMBLY 0677065-5 T-76866

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	BODY (Not serviced separately)
2	-----	1	PLUG, pressure regulating section
3	-----	1	PISTON, pressure regulating section, short
4	-----	1	WASHER, piston spring
5	-----	1	PISTON, pressure regulating section, long
6	-----	1	PIN, stop, pressure regulating piston
7	0681223-4	1	PISTON, pressure regulating section, long (If for Converters prior to #241770 also order item 8)
8	3037730-3	1	WASHER, piston spring (If for Converters prior to #241770 also order item 7)
9	0680899-2	-	WASHER, shimming (Use as required)
10	0680818-2	1	PISTON, pressure regulating section, short
11	0923565-6	1	O-RING, piston to rod
12	0928445-5	1	RING, retaining
13	0680820-0	1	PIN, piston stop
14	0680819-0	1	PLUG, pressure regulating section
15	0921235-8	1	O-RING, plug
16	0666082-3	1	SPRING, short piston, inner

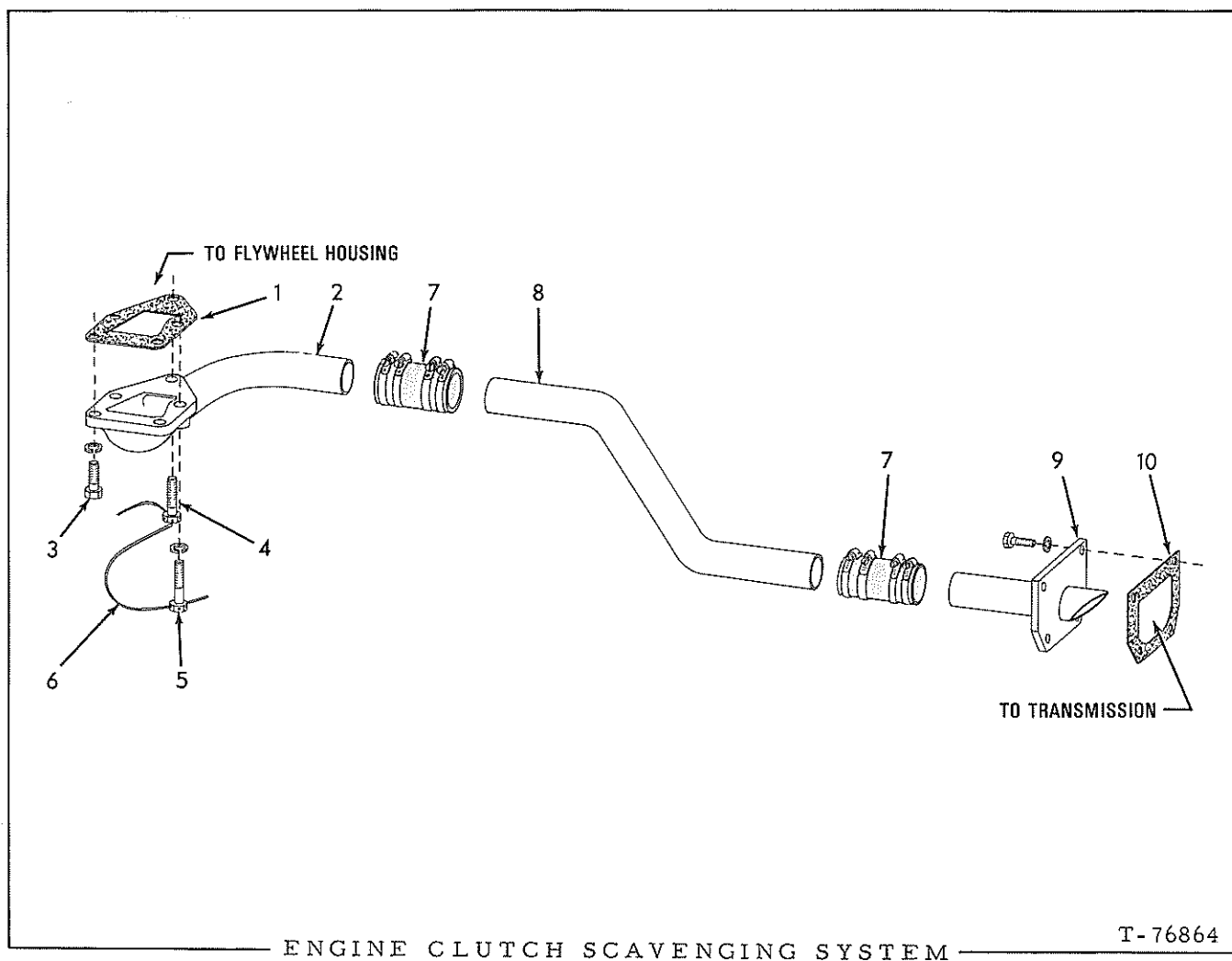
Used prior to
Converter
#241000. Order
items 7 thru 14

Converter
#241000 and
up

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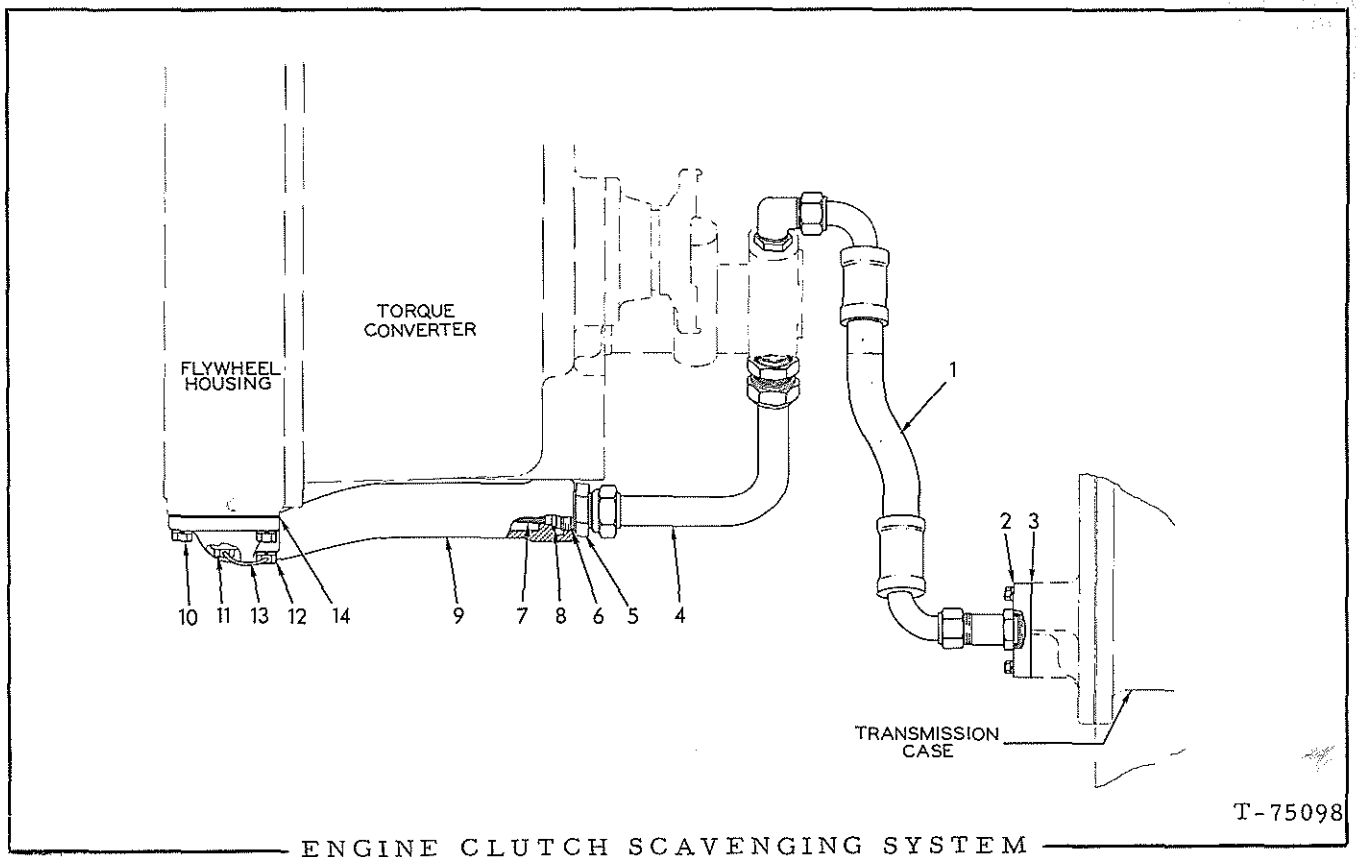
PRESSURE REGULATING VALVE ASSEMBLY 0677065- 5 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
17	0666081-5	1	SPRING, short piston outer
18	3041475-6	2	O-RING, plug
19	0669423-6	1	PLUG, pressure regulating section (1-1/16"NF thread)
20	0666076-5	1	PLUG, cold oil relief section
21	0658025-2	1	SPRING, piston, oil relief sections, outer
22	0659615-9	1	SPRING, piston, oil relief section, inner
23	3035074-8	1	PISTON, cold oil relief section



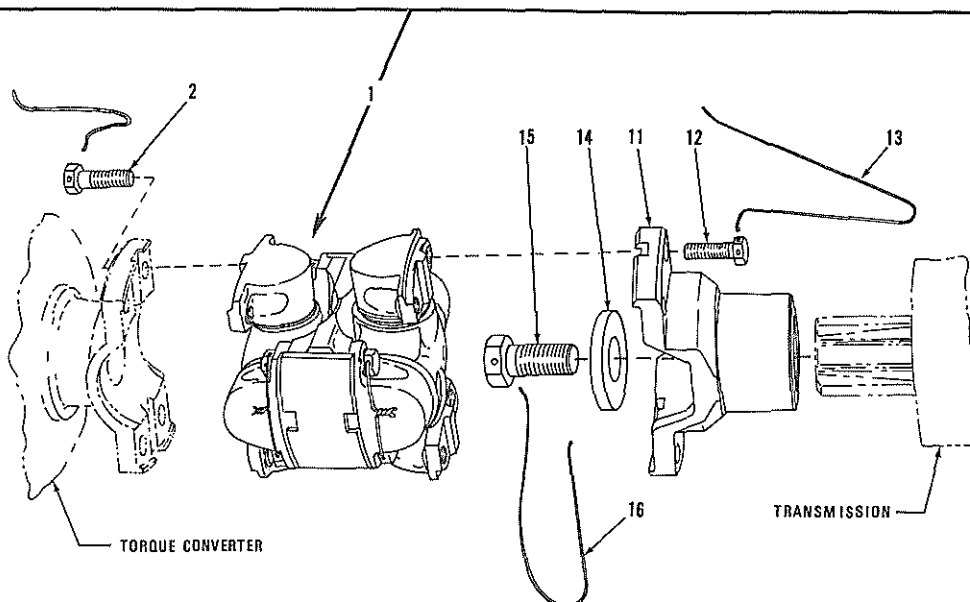
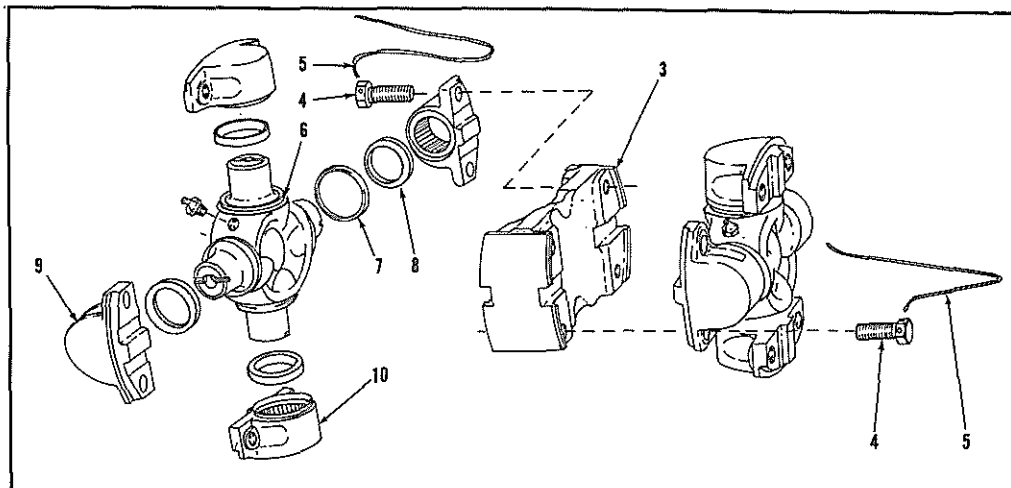
USAGE: Tractor serial No. 10S17519 and up excluding 10S17579 thru 10S17628

ITEM	PART NO.	QTY.	DESCRIPTION
1	0640636-7	1	GASKET, flywheel housing drain elbow
2	0670634-5	1	ELBOW, drain, flywheel housing
3	0035733-5	3	CAPSCREW, 1/2"NC x 1-3/8"
4	0054069-0	1	CAPSCREW, drilled-hd., 1/2"NC x 2"
5	0041481-3	1	CAPSCREW, drilled-hd., 1/2"NC x 2-1/4"
6	0904208-6	4	LOCKWASHER, 1/2"
6	0023633-1	1	WIRE, locking, 1/16"
7	0606384-6	2	HOSE, tube connector
	0921913-0	8	CLAMP, hose, 1-13/16" to 2-3/4" diam.
8	0670708-7	1	TUBE, transmission to flywheel housing
9	0670671-7	1	PLATE, tube connecting
	0919224-6	4	CAPSCREW, 3/8"NC x 1-1/8"
	0904206-0	4	LOCKWASHER, 3/8"
10	0662633-7	1	GASKET, tube connecting plate



ENGINE CLUTCH SCAVENGING SYSTEM

ITEM	PART NO.	QTY.	DESCRIPTION
1	660876	1	HOSE ASSY., oil return, pump to transmission (See HOSE PARTS)
	924688	1	CONNECTOR, flare type, 1" tube, 1-5/16"NF (Includes O-RING 921214)
	921227	1	ELBOW, adjustable, 90°, flare type, 1" tube, 1-5/16"NF (Includes washer, nut and O-RING 921214)
2	662619	1	PLATE, adapting, oil return hose
	914847	4	CAPSCREW, 3/8"NC x 1-1/2"
	904206	4	LOCKWASHER, 3/8"
3	662633	1	GASKET, adapting plate
4	665637	1	TUBE ASSEMBLY, oil return, flywheel housing to pump (Includes nuts)
	922988	1	CONNECTOR, flare type, 1-1/4" tube, 1-5/16"NF (Includes O-RING 921214)
5	640575	1	ADAPTER, oil return hose
6	641109	1	GASKET, oil return hose adapter
7	641110	1	SCREEN, flywheel housing drain elbow
8	640663	1	RING, sealing (rubber)
9	641052	1	ELBOW, drain, flywheel housing
10	035733	3	CAPSCREW, 1/2"NC x 1-3/8"
11	054069	1	CAPSCREW, drilled-hd., 1/2"NC x 2"
12	041481	1	CAPSCREW, drilled-hd., 1/2"NC x 2-1/4"
	904208	4	LOCKWASHER, 1/2"
13	023633	1	WIRE, locking, 1/16"
14	640636	1	GASKET, flywheel housing drain elbow



UNIVERSAL JOINT

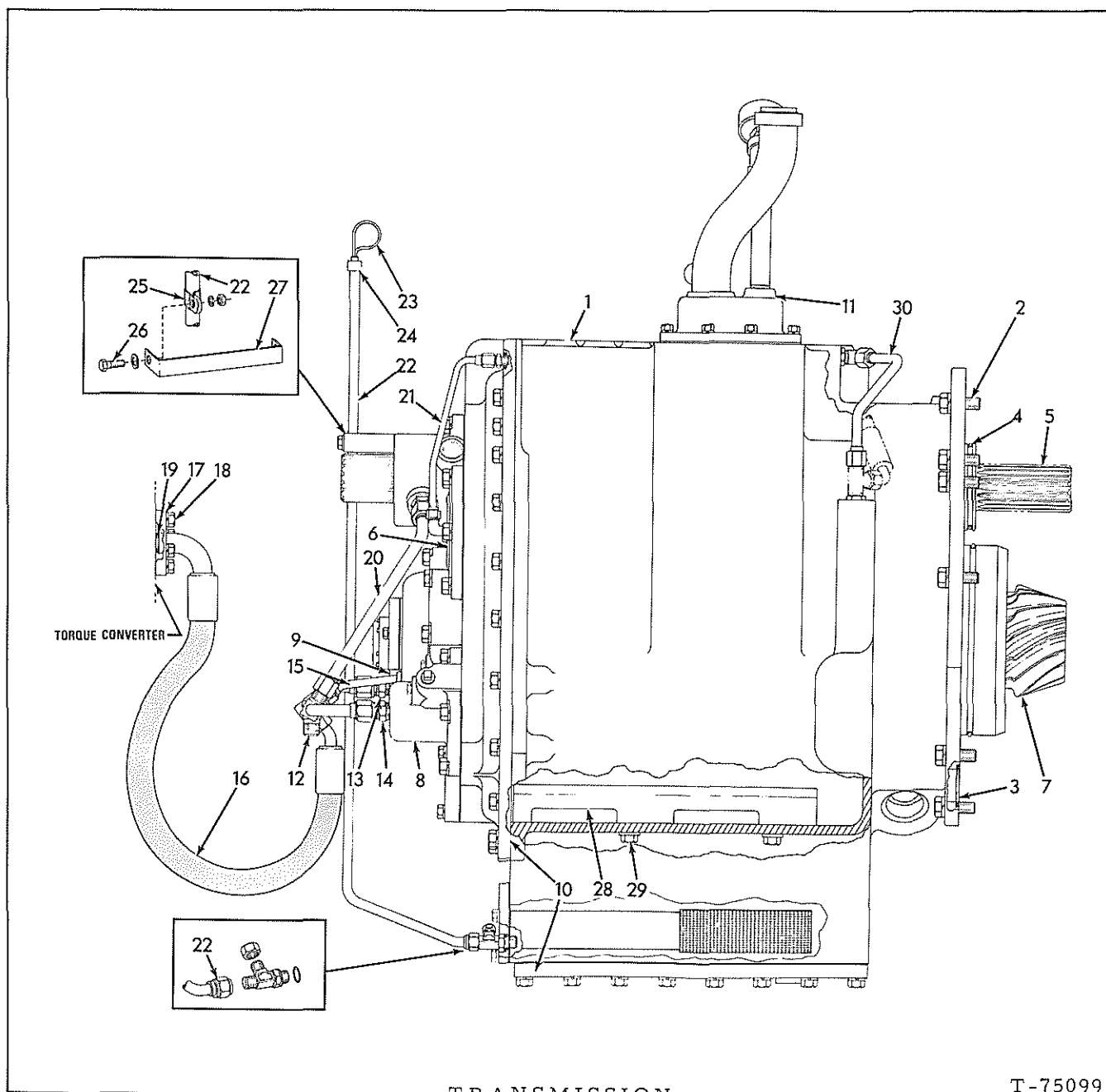
T-74957

ITEM	PART NO.	QTY.	DESCRIPTION
1	663615	1	JOINT ASSEMBLY, converter to transmission (Consists of items 3 thru 10)
2	035689	4	CAPSCREW, drilled-hd., 1/2"NF x 1-3/8"
	023633	2	WIRE, locking, 1/16" x 12"
3	667192	1	PLATE, connecting
4	179504	8	CAPSCREW, drilled-hd., 1/2"NF x 1-3/8"
5	023633	4	WIRE, locking, 1/16" x 12"
6	090311	2	SPIDER ASSEMBLY (Includes item 7 and FITTING indented below)
	912808	2	FITTING, lubricating, straight, 1/4"NF
7	069954	8	SHIELD, dust

(Continued)

UNIVERSAL JOINT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	667191	8	WASHER, sealing, spider bearing
9	667193	4	BEARING ASSEMBLY, spider to connecting plate (Serviced only as a unit)
10	667194	4	BEARING ASSEMBLY, spider to yokes (Serviced only as a unit)
11	628794	1	YOKE, rear
12	035689	4	CAPSCREW, drilled-hd., 1/2"NF x 1-3/8"
13	023633	2	WIRE, locking, 1/16" x 12"
14	075420	1	WASHER, yoke retaining
15	663468	1	CAPSCREW, yoke retaining (drilled hd., 1-1/8"NF x 2-1/8")
16	023633	1	WIRE, locking 1/16" x 12"

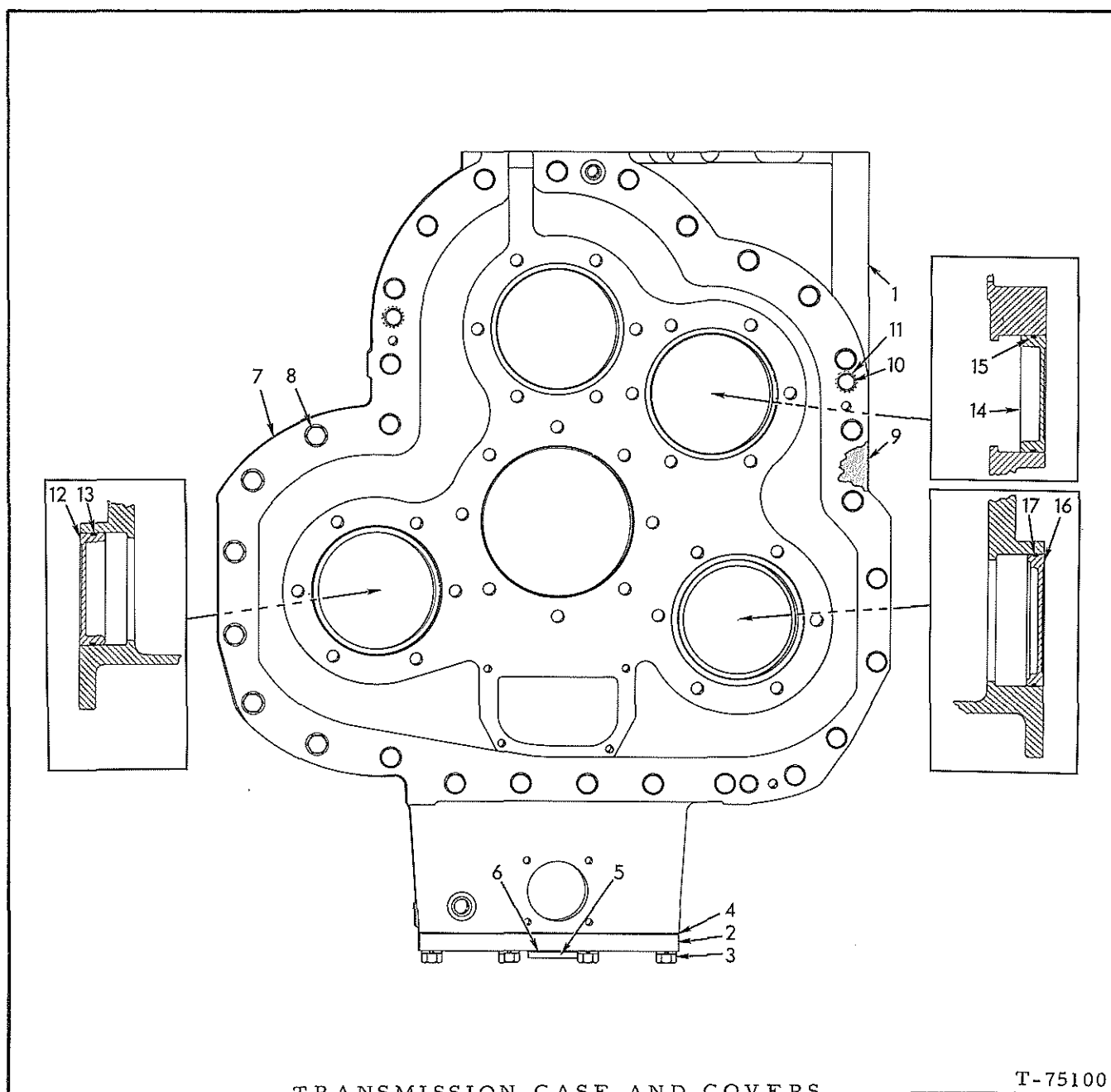


ITEM	PART NO.	QTY.	DESCRIPTION
1	0656650-9	1	TRANSMISSION ASSY. (Includes items 5 thru 11)
2	0927115-6	1	SCREW, 12 pt.-hd., Nylok, 5/8"NF x 1-3/4"
	0631795-2	11	CAPSCREW, Nylok, 5/8"NF x 1-3/4"
	0912942-0	12	LOCKWASHER, 5/8"
3	0923579-7	1	O-RING, transmission to final drive case, lower
4	0923834-6	1	O-RING, transmission to final drive case, upper
5	-----	-	See TRANSMISSION CLUTCH SHAFT (Forward and Reverse)
6	-----	-	See TRANSMISSION COUNTER-SHAFT
7	-----	-	See TRANSMISSION BEVEL PINION SHAFT

(Continued)

TRANSMISSION (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	-----	-	See TRANSMISSION CLUTCH SHAFT (First Speed)
9	-----	-	See TRANSMISSION CLUTCH SHAFT (Second and Third Speeds)
10	-----	-	See TRANSMISSION CASE AND COVERS
11	-----	-	See TRANSMISSION OIL FILLER AND BREATHER
12	0670692-3	1	TUBE ASSY., oil jumper (Includes nuts)(Tractor unit #17519 and up excluding #17579 thru #17628)
	0654060-3	1	TUBE ASSY., oil jumper (Includes nuts)(Tractors prior to unit #17519; also tractor unit #17579 thru #17628)
13	0665687-0	1	CONNECTOR, right side (restricted)
14	0665688-8	1	CONNECTOR, left side (restricted)
15	0654002-5	1	TUBE ASSY., jumper tube to pinion shaft front bearing retainer (Includes nuts)
	0919062-0	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
16	0654293-0	1	HOSE, oil supply, converter to transmission (Tractors prior to unit #17519; also tractor unit #17579 thru #17628)
	0670706-1	1	HOSE, oil supply, converter to transmission (Tractors unit #17519 and up, excluding #17579 thru #17628)
17	0921117-8	2	FLANGE, hose attaching (half only)
18	0041250-2	4	CAPSCREW, 7/16"NC x 1-1/4"
	0904207-8	4	LOCKWASHER, 7/16"
19	3002227-1	1	O-RING, hose flange
20	0654277-3	1	TUBE ASSY., oil jumper tube to top shaft collector
	0921326-5	1	CONNECTOR, flare type, 5/8" tube, 7/8"NF straight male thread (Includes O-RING)
	0921205-1	1	O-RING, connector
21	0654061-1	1	TUBE ASSY., oil supply, counter-shaft front bearing (Includes nuts)
	0922522-8	1	CONNECTOR, flare type, 3/8" tube, 9/16"NF male end (Includes O-RING)
	0919135-4	1	ELBOW, flare type, 90°, 3/8" tube, 1/4"NPT male
	0921885-0	7	O-RING, connector
22	0669217-2	1	TUBE ASSY., oil level gauge (Includes nuts)
	0922792-7	1	TEE, adjustable, flare type, 1/2" tube, 3/4"NF (Includes washer, nut and O-RING)
	0923737-1	1	CAP, flare type, 1/2" tube
	0921349-7	1	O-RING, tee
23	0653980-3	1	GAUGE ASSY., oil level (Includes item 24)
24	4506607-3	1	SEAL, oil level gauge (cork)
25	0094527-9	1	CLIP, tube supporting
26	0035244-3	1	CAPSCREW, 3/8"NC x 3/4"
	0911115-4	1	WASHER, plain, SAE std., 3/8"
	0904206-0	1	LOCKWASHER, 3/8"
	0911026-3	1	NUT, 3/8"NC
27	0652613-1	1	ANGLE, tube supporting
28	0663343-2	1	BAFFLE, oil
29	0922211-8	4	CAPSCREW, Nylok, 3/8"NC x 1-1/4"
	0900817-8	4	WASHER, plain, U.S. std., 3/8"
30	0662549-5	1	TUBE ASSY., oil return, inhibitor valve (Includes nuts)
	0922507-9	1	ELBOW, adjustable, 45°, flare type, 1/2" tube, 3/4"NF (Includes washer, nut and O-RING)
	0921349-7	1	O-RING, elbow

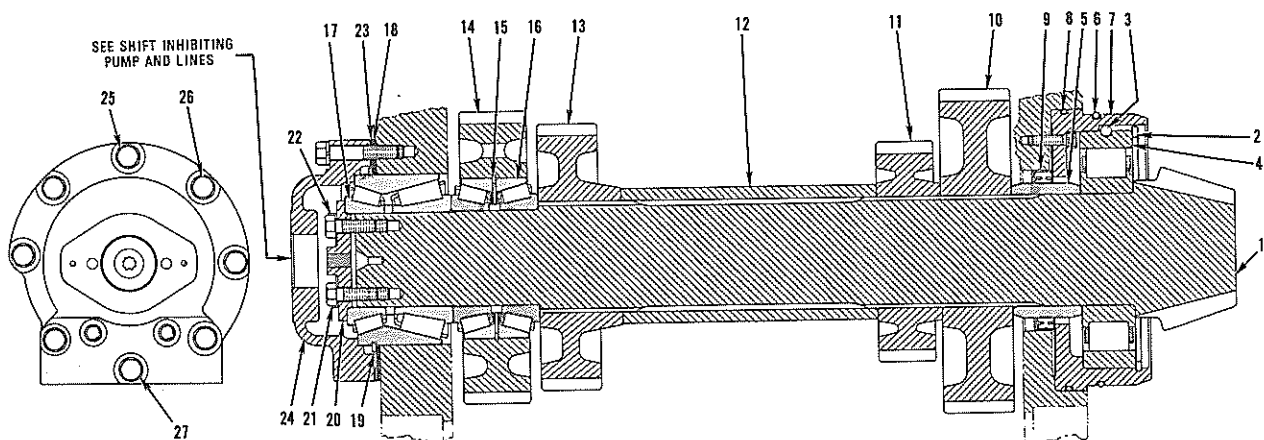


ITEM	PART NO.	QTY.	DESCRIPTION
1	654191	1	CASE, transmission
2	654105	1	COVER, bottom
3	035236	21	CAPSCREW, 1/2"NC x 1-3/4"
	904208	21	LOCKWASHER, 1/2"
4	654104	1	GASKET, bottom cover
5	035250	1	PLUG, drain
6	667252	1	GASKET, drain plug

(Continued)

TRANSMISSION CASE AND COVERS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
7	656681	1	COVER, front
8	035190	29	CAPSCREW, 1/2"NC x 1-1/2"
	904208	29	LOCKWASHER, 1/2"
9	653798	1	GASKET, front cover
10	624695	3	PIN, dowel, front cover
11	623804	3	RING, snap, dowel pin
12	656756	1	PLUG, cup (4-23/32" diam)
13	923819	1	O-RING, plug sealing (4-5/8" O. D.)
14	656746	1	PLUG, cup (4-29/32" diam.)
15	923821	1	O-RING, plug sealing (4-7/8" O. D.)
16	656766	1	PLUG, cup (5-1/2" diam.)
17	923823	1	O-RING, plug sealing (5-3/8" O. D.)



TRANSMISSION BEVEL PINION SHAFT

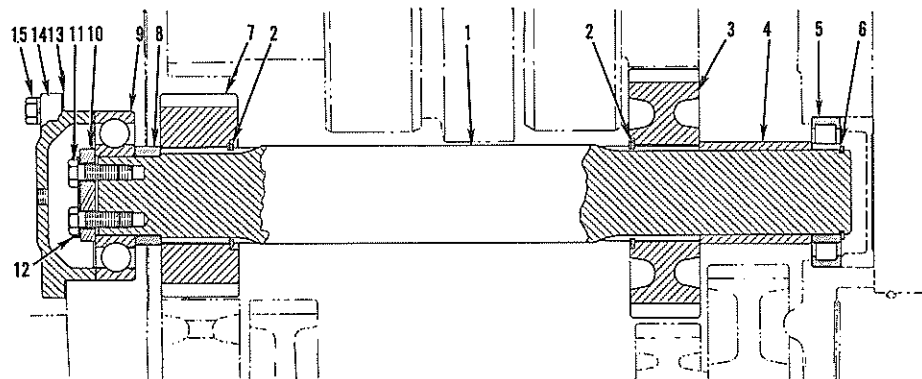
T-75104

ITEM	PART NO.	QTY.	DESCRIPTION
1	656790	1	PINION, bevel (12 teeth)
2	629355	1	RING, snap, bearing retaining
3	905360	1	BALL, retaining, rear bearing (3/8" diam.)
4	644337	1	BEARING, roller, rear end
5	657313	1	SPACER, first speed gear
6	925241	1	O-RING, rear bearing retainer
7	653740 917733	1 6	RETAINER, rear bearing CAPSCREW, socket-hd., 3/8"NC x 1-1/4"
8	925652	1	O-RING, rear bearing retainer
9	648619	1	SEAL, oil
10	656594	1	GEAR, first speed (59 teeth)
11	656593	1	GEAR, third speed (39 teeth)
12	629356	1	SLEEVE, gear spacing

(Continued)

TRANSMISSION BEVEL PINION SHAFT (Continued)

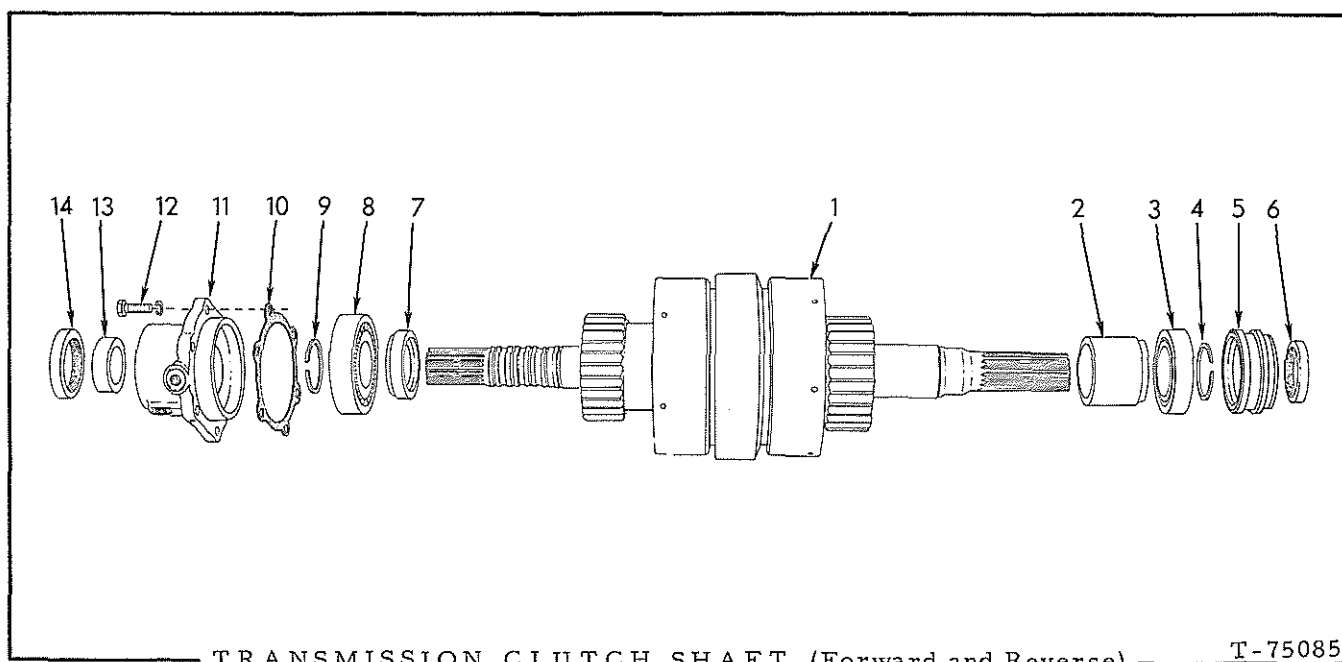
ITEM	PART NO.	QTY.	DESCRIPTION	
13	656597	1	GEAR, second speed (48 teeth)	
14	656598	1	GEAR, idling (53 teeth)	
15	629138	1	RING, snap, idling gear	
16	657324	1	BEARING, roller (Consists of 2 roller assemblies, 2 cups and 1 spacer. Serviced only as a unit)	
17	657318	1	BEARING, roller, front end (Consists of 2 roller assemblies, 1 cup and 1 spacer. Serviced only as a unit)	
18	657315	7	SHIM, pinion adjustment (.005" thick)	} Use as required
	657316	5	SHIM, pinion adjustment (.007" thick)	
	657317	7	SHIM, pinion adjustment (.010" thick)	
19	657302	1	RING, snap, front bearing	
20	662411	1	RETAINER, front bearing, inner	
21	035018	3	CAPSCREW, 1/2"NF x 1-1/2"	
22	629358	1	PLATE, capscREW locking	
23	657312	5	SHIM, bearing retainer (.005" thick)	} Use as required
	657314	5	SHIM, bearing retainer (.007" thick)	
24	653819	1	RETAINER, front bearing, outer	
25	028979	3	CAPSCREW, 1/2"NC x 2-1/2"	
26	916317	2	CAPSCREW, 1/2"NC x 2-3/4"	
27	916321	3	CAPSCREW, 1/2"NC x 4-1/2"	
	904208	8	LOCKWASHER, 1/2"	
	910244	2	WASHER, plain, SAE std., 1/2"	
28	-----	-	PUMP (See SHIFT INHIBITING PUMP AND LINES)	



TRANSMISSION COUNTER SHAFT

T-75105

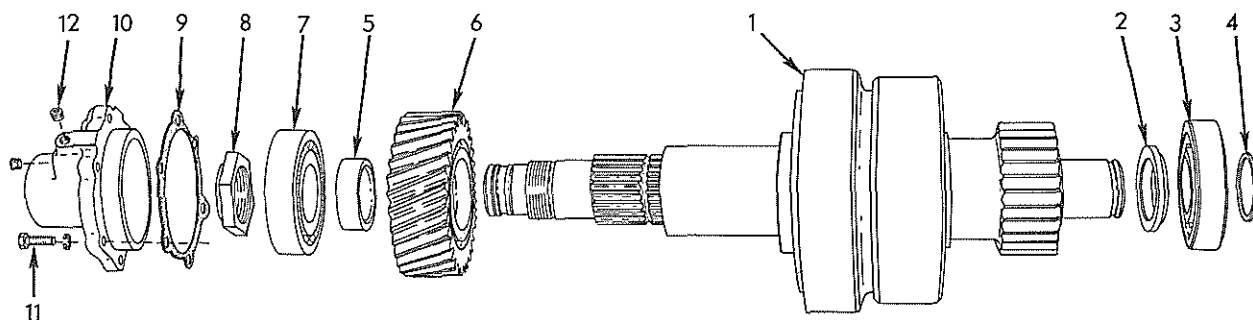
ITEM	PART NO.	QTY.	DESCRIPTION
1	657328	1	SHAFT
2	657299	2	RING, snap, gear retaining
3	656601	1	GEAR, rear end (39 teeth)
4	657322	1	SPACER, rear end gear
5	624445	1	BEARING, roller, rear end
6	624688	1	RING, snap, bearing retaining
7	656602	1	GEAR, front end (31 teeth)
8	657305	1	SPACER, front end gear
9	629348 647996	1	BEARING, ball, front end
10	629350	1	WASHER, shaft end
11	614478	2	CAPSCREW, 1/2"NF x 1-3/8"
12	629349	1	PLATE, capscREW locking
13	657319	1	GASKET, front bearing retainer
14	657329	1	RETAINER, front bearing
15	035190	6	CAPSCREW, 1/2"NC x 1-1/2"
	904208	6	LOCKWASHER, 1/2"



TRANSMISSION CLUTCH SHAFT (Forward and Reverse)

T-75085

ITEM	PART NO.	QTY.	DESCRIPTION
1	0679934-0	1	CLUTCH AND SHAFT ASSY. (See page 129 for parts)
2	0657323-2	1	SPACER, clutch shaft, rear
3	0624445-3	1	BEARING, roller, rear
4	0624688-8	1	RING, snap, rear bearing
5	0663442-2	1	RETAINER, rear bearing
6	0663482-8	1	SEAL, oil, rear
7	0656612-9	1	SPACER, clutch shaft, front
8	0647996-8	1	BEARING, ball, front end
9	0624783-7	1	RING, snap, front bearing
10	0657319-0	1	GASKET, oil collector
11	0653947-2	1	COLLECTOR, oil (Tractors prior to unit #17047)
	0670397-9	1	COLLECTOR, oil (Tractors unit #17047 and up)
	0919140-4	2	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male
	0921467-7	2	CAP, flare type, 1/4" tube
} Late Units			
12	0035190-8	6	CAPSCREW, 1/2"NC x 1-1/2"
	0904208-6	6	LOCKWASHER, 1/2"
13	0657581-5	1	SPACER, front oil seal
14	0657582-3	1	SEAL, oil, front

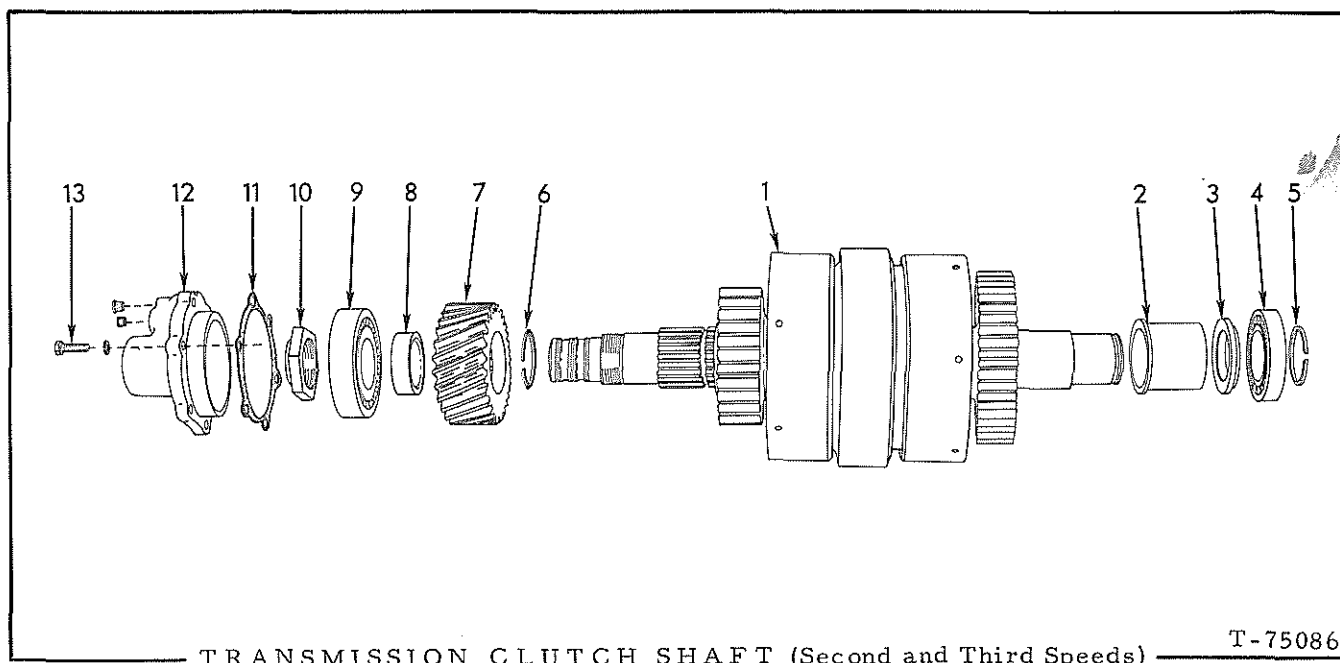


TRANSMISSION CLUTCH SHAFT (First Speed)

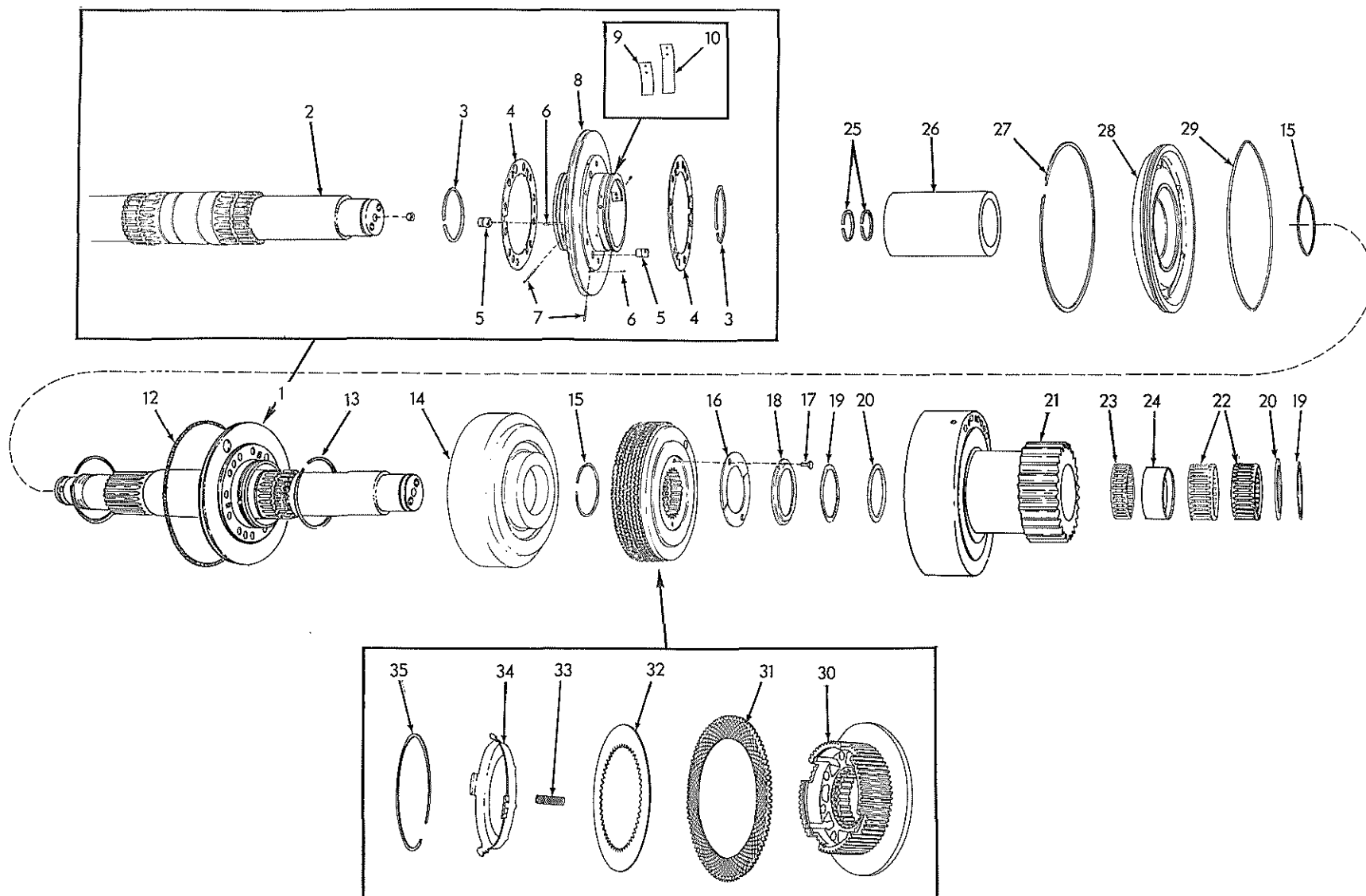
T-75083

ITEM	PART NO.	QTY.	DESCRIPTION
1	0656968-5	1	CLUTCH AND SHAFT ASSY. (See page 125 for parts)
2	0657303-4	1	SPACER, rear bearing
3	0629347-6	1	BEARING, roller, rear
4	0624783-7	1	RING, snap, rear bearing
5	0657305-9	1	SPACER, front bearing
6	0656599-8	1	GEAR, driving (33 teeth)
7	0647996-8	1	BEARING, ball, front end
8	0639759-0	1	NUT, clutch shaft
9	0628784-1	1	GASKET, oil collector
10	0639501-6	1	COLLECTOR, oil
	0918850-9	2	PLUG, pipe, hex-socket, 1/4"NPT (Tractors prior to unit #17737)
	0901652-8	1	PLUG, pipe, 1/4"NPT
	0919140-4	1	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male
	0921467-7	1	CAP, flare type, 1/4" tube
11	0035190-8	6	CAPSCREW, 1/2"NC x 1-1/2"
	0904208-6	6	LOCKWASHER, 1/2"
12	0901653-6	1	PLUG, oil by-pass chamber (3/8"NPT)
13	-----	-	TRANSMISSION PINION SHAFT

Tractors unit #17737 and up



ITEM	PART NO.	QTY.	DESCRIPTION
1	656969	1	CLUTCH AND SHAFT ASSEMBLY (See page 127 for parts)
2	657321	1	SPACER, clutch shaft, rear
3	657303	1	SPACER, rear bearing
4	042951	1	BEARING, roller, rear end
5	624783	1	RING, snap, rear bearing
6	629346	1	RING, snap, clutch shaft
7	656596	1	GEAR, driving (28 teeth)
8	657305	1	SPACER, front bearing
9	629348	1	BEARING, ball, front end
10	639759	1	NUT, clutch shaft
11	628784	1	GASKET, oil collector
12	639501	1	COLLECTOR, oil
	918850	2	PLUG, pipe, hex-socket, 1/4"NPT
13	035190	6	CAPSCREW, 1/2"NC x 1-1/2"
	904208	6	LOCKWASHER, 1/2"



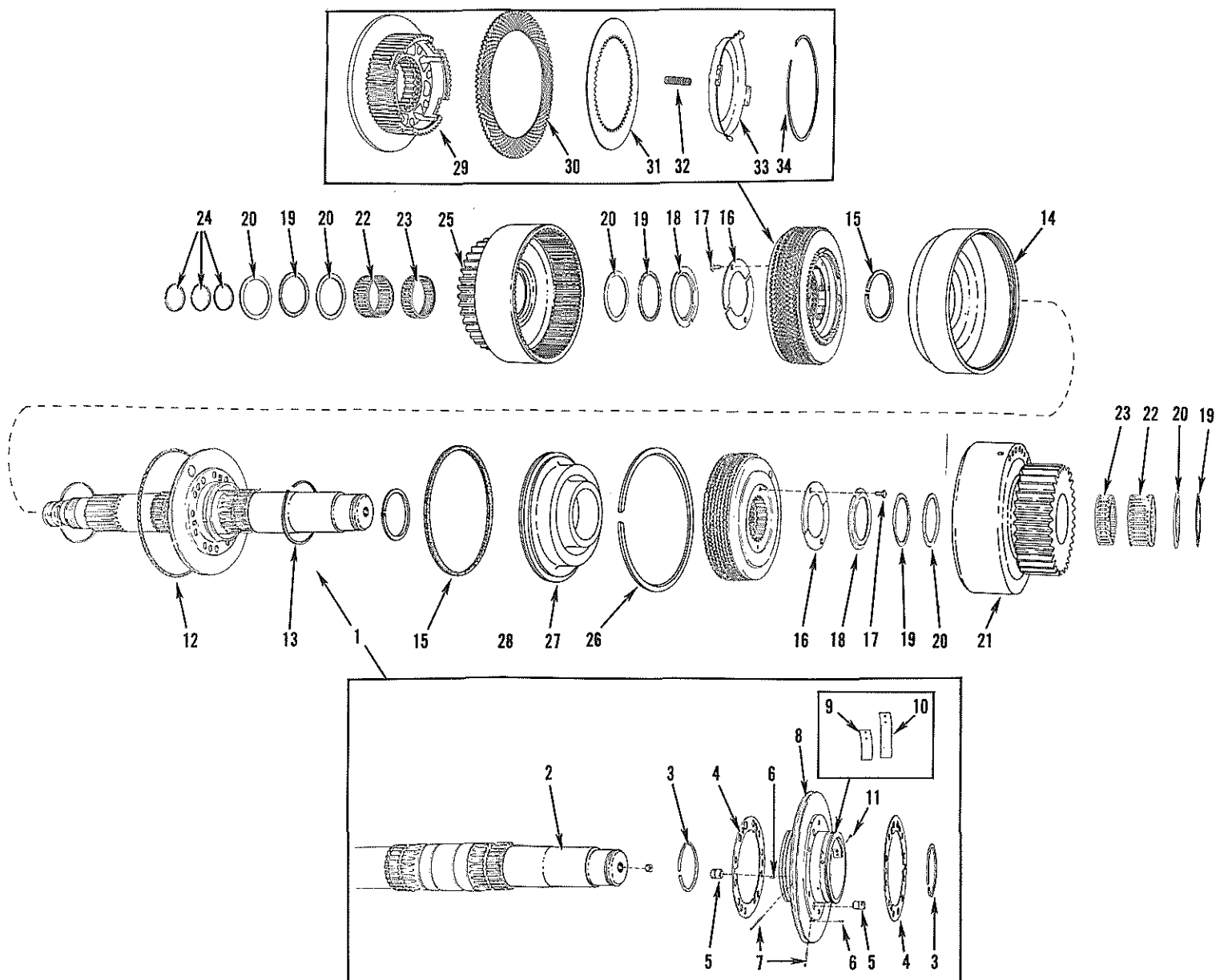
CLUTCH AND SHAFT ASSEMBLY 656968

T-75084

CLUTCH AND SHAFT ASSEMBLY 656968

USAGE: See page 122

ITEM	PART NO.	QTY.	DESCRIPTION
1	656978	1	SHAFT ASSY. (Includes items 2 thru 11)
2	----- 186648	1 1	SHAFT, only (Not serviced separately) PLUG, pipe, hex-socket, 1/4"NPT
3	639588	2	RING, snap, carrier retaining
4	3037767	2	PLATE, valve
5	639598	6	PISTON, valve actuating
6	922745	6	PIN, retaining, piston stop pin
7	3037768	6	PIN, piston stop
8	642144	1	CARRIER ASSY. (Includes items 9 thru 11)
9	639579	2	VALVE, flapper
10	642329	2	GUARD, flapper valve
11	639578	6	RIVET, flapper valve
12	3037676	1	O-RING, carrier
13	3037675	2	RING, carrier sealing
14	3037669	1	HOUSING, piston
15	3037674	2	RING, shaft sealing, center
16	639583	2	RETAINER, clutch hub (half only)
17	3037641	2	CAPSCREW, thin-hd., 5/16"NF x 1/2"
18	3037681	1	SPACER
19	3037597	2	BEARING, thrust
20	3037598	2	WASHER, thrust
21	656971	1	GEAR AND DRUM (27 teeth)
22	3037656	2	BEARING, roller, clutch gear (1-1/2" wide)
23	639547	1	BEARING, roller, clutch gear (1" wide)
24	656981	1	SPACER, gearing
25	3037629	2	RING, shaft sealing, end
26	656982	1	SPACER, drive gear
27	3037677	1	RING, snap, actuating piston housing
28	3037667	1	PISTON, clutch actuating
29	3037684	1	SEAL, actuating piston
30	643761	1	HUB, clutch
31	642061	8	PLATE, friction, outer
32	642147	8	PLATE, friction, inner
33	639556	8	SPRING, clutch hub
34	643762	1	RETAINER, clutch hub spring
35	3037678	1	RING, snap, spring retainer



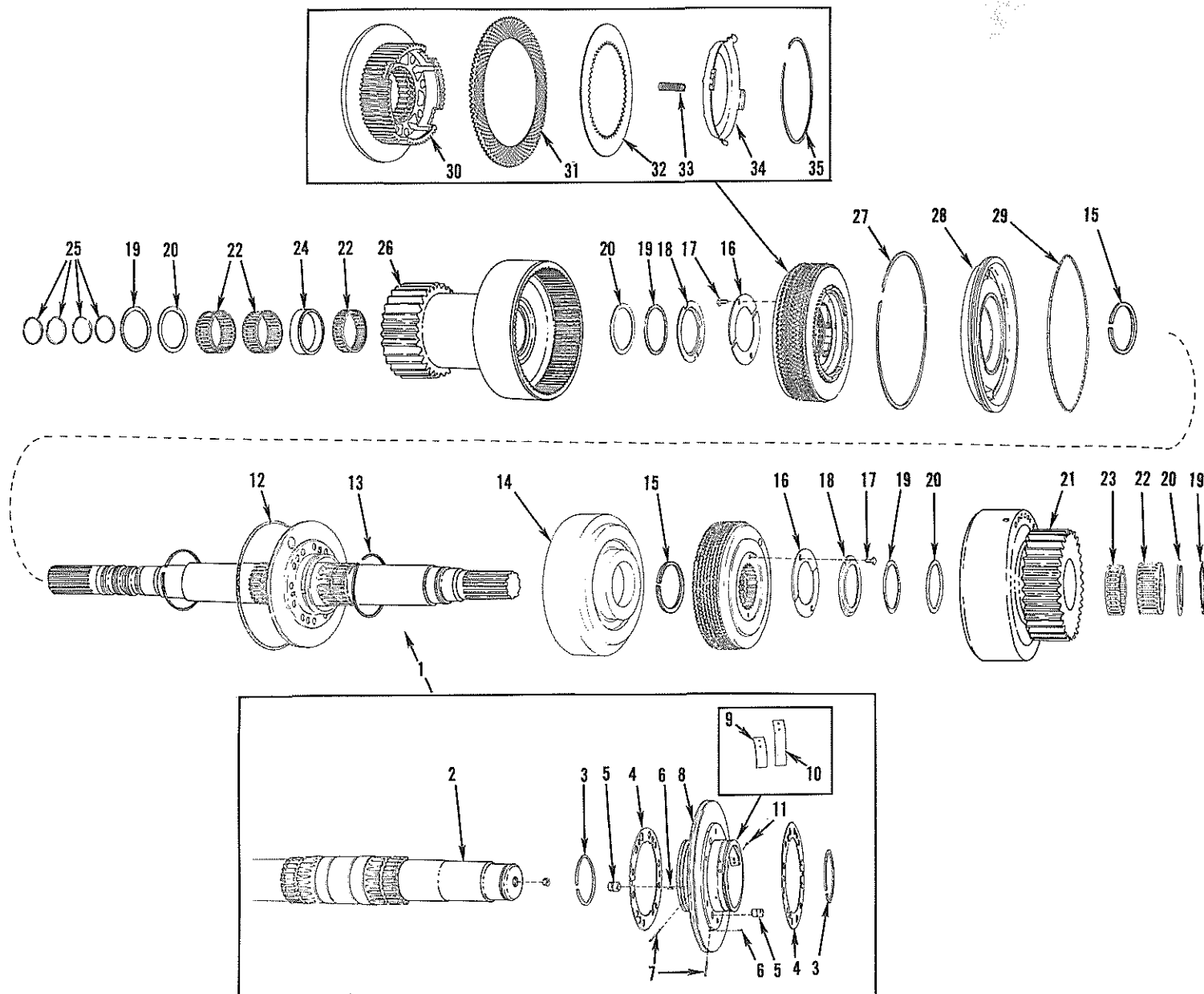
CLUTCH AND SHAFT ASSEMBLY 656969

T-75106

CLUTCH AND SHAFT ASSEMBLY 656969

USAGE: See page 123

ITEM	PART NO.	QTY.	DESCRIPTION
1	656979	1	SHAFT ASSEMBLY (Includes items 2 thru 11)
2	----- 186648	1 1	SHAFT, only (Not serviced separately) PLUG, pipe, hex-socket, 1/4"NPT
3	639588	2	RING, snap, carrier retaining
4	3037767	2	PLATE, valve
5	639598	6	PISTON, valve actuating
6	639577	6	PIN, retaining, piston stop pin
7	3037768	6	PIN, piston stop
8	642144	1	CARRIER ASSEMBLY (Includes items 9 thru 11)
9	639579	2	VALVE, flapper
10	642329	2	GUARD, flapper valve
11	639578	6	RIVET, flapper valve
12	3037676	1	O-RING, carrier
13	3037675	2	RING, carrier sealing
14	3037669	1	HOUSING, piston
15	3037674	2	RING, shaft sealing, center
16	639583	4	RETAINER, clutch hub (half only)
17	3037641	4	CAPSCREW, thin-hd., 5/16"NF x 1/2"
18	3037681	2	SPACER
19	3037597	4	BEARING, thrust
20	3037598	5	WASHER, thrust
21	656973	1	GEAR AND DRUM, third speed (42 teeth)
22	3037656	2	BEARING, roller, clutch gear (1-1/2" wide)
23	639547	2	BEARING, roller, clutch gear (1" wide)
24	3037629	3	RING, shaft sealing, end
25	656975	1	GEAR AND DRUM, second speed (33 teeth)
26	3037677	1	RING, snap, actuating piston housing
27	3037667	1	PISTON, clutch actuating
28	3037684	1	SEAL, actuating piston
29	643761	2	HUB, clutch
30	642061	16	PLATE, friction, outer
31	642147	16	PLATE, friction, inner
32	639556	16	SPRING, clutch hub
33	643762	2	RETAINER, clutch hub spring
34	3037678	2	RING, snap, spring retainer



CLUTCH AND SHAFT ASSEMBLY 656970

T-75107

CLUTCH AND SHAFT ASSEMBLY 656970

USAGE: See page 121

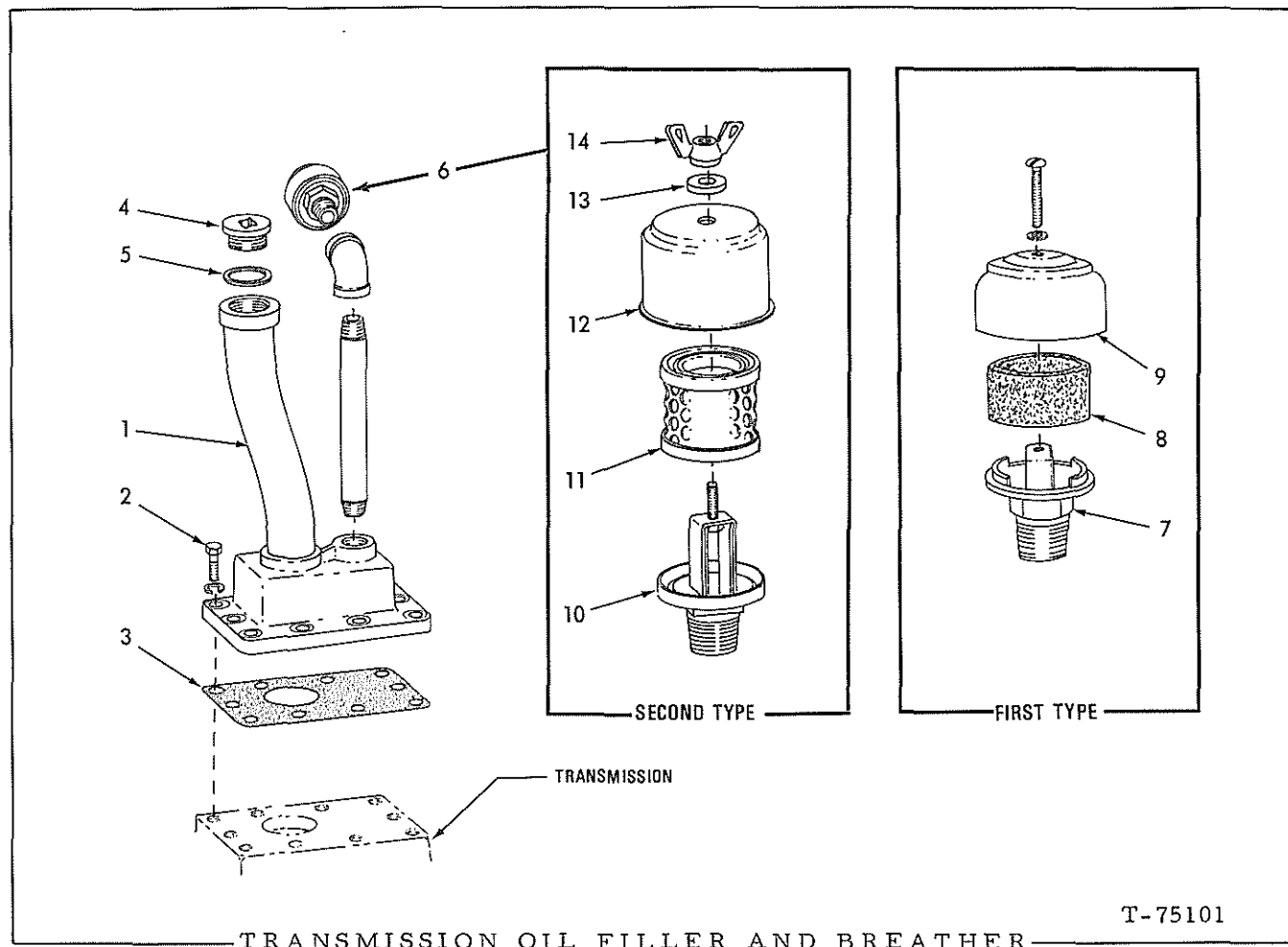
ITEM	PART NO.	QTY.	DESCRIPTION
1	656977	1	SHAFT ASSEMBLY (Includes items 2 thru 11)
2	-----	1	SHAFT, only (Not serviced separately)
	907859	1	PLUG, pipe, hex-socket, 1/4"NPT
3	639588	2	RING, snap, carrier retaining
4	3037767	2	PLATE, valve
5	639598	6	PISTON, valve actuating
6	922745	6	PIN, retaining, piston stop pin
7	3037768	6	PIN, piston stop
8	642144	1	CARRIER ASSEMBLY (Includes items 9 thru 11)
9	639579	2	VALVE, flapper
10	642329	2	GUARD, flapper valve
11	639578	6	RIVET, flapper valve
12	3037676	1	O-RING, carrier
13	3037675	2	RING, carrier sealing
14	3037669	1	HOUSING, piston
15	3037674	2	RING, shaft sealing, center
16	639583	4	RETAINER, clutch hub (half only)
17	3037641	4	CAPSCREW, thin- hd., 5/16"NF x 1/2"
18	3037681	2	SPACER
19	3037597	4	BEARING, thrust
20	3037598	4	WASHER, thrust
21	656972	1	GEAR AND DRUM, forward (31 teeth)
22	3037656	4	BEARING, roller, clutch gear (1-1/2" wide)
23	639547	1	BEARING, roller, clutch gear (1" wide)
24	656980	1	SPACER, clutch gear bearing
25	4054656	4	RING, shaft sealing, end
26	656974	1	GEAR AND DRUM, reverse (28 teeth)
27	3037677	1	RING, snap, actuating piston housing
28	3037667	1	PISTON, clutch actuating
29	3037684	1	SEAL, actuating piston

(Continued)

CLUTCH AND SHAFT ASSEMBLY 656970 (Continued)

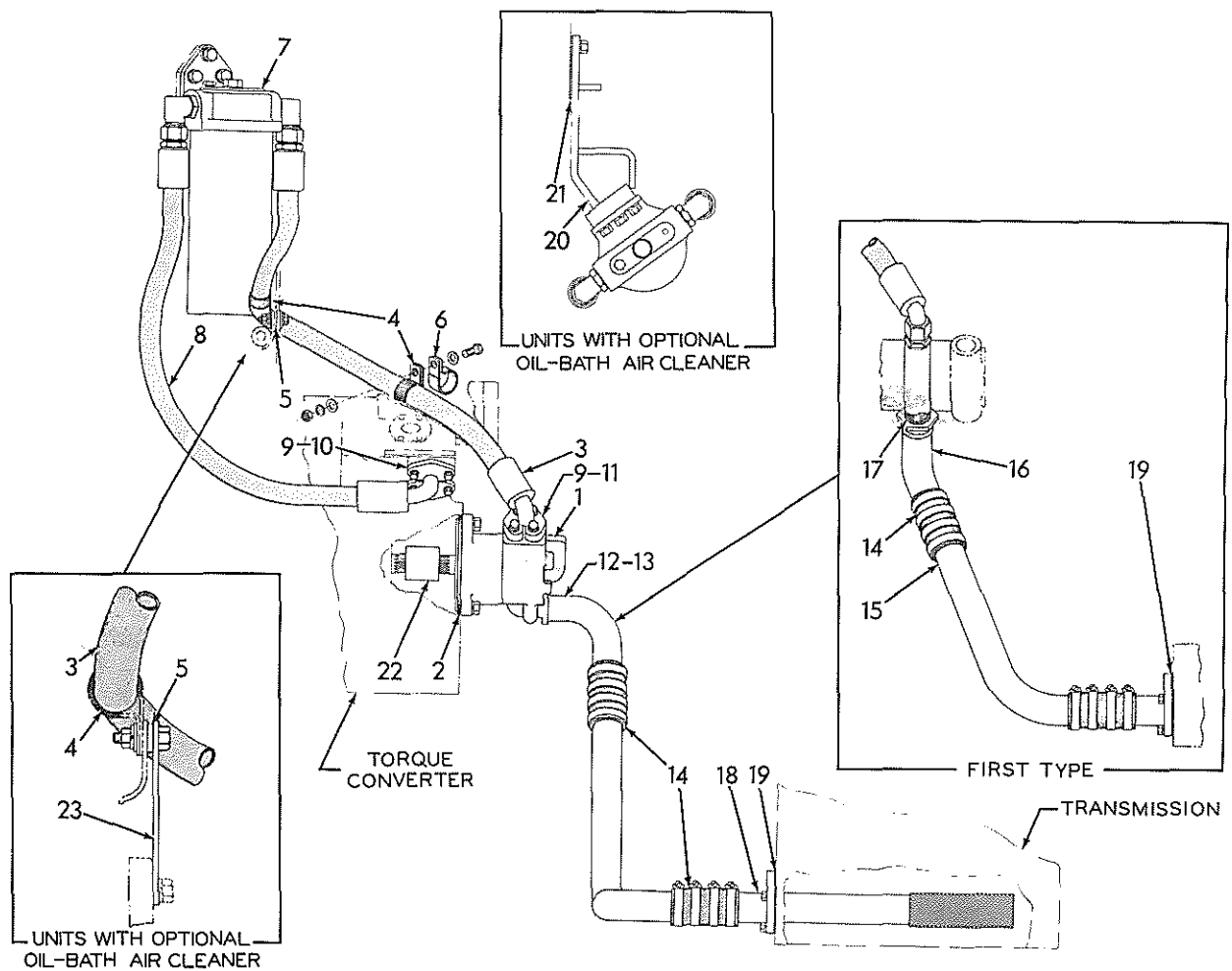
ITEM	PART NO.	QTY.	DESCRIPTION
30	643761	2	HUB, clutch
31	642061	16	PLATE, friction, outer
32	642147	16	PLATE, friction, inner
33	639556	16	SPRING, clutch hub
34	643762	2	RETAINER, clutch hub spring
35	3037678	2	RING, snap, spring retainer

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



ITEM	PART NO.	QTY.	DESCRIPTION
1	0653950-6	1	FILLER, oil
2	0044249-1	10	CAPSCREW, 3/8"NC x 1-1/8"
	0904206-0	10	LOCKWASHER, 3/8"
3	0627346-0	1	GASKET, oil filler to case
4	0035250-0	1	PLUG, oil filler
5	0667252-2	1	GASKET, oil filler plug
6	-----	1	BREATHER ASSEMBLY (Consists of items 7 thru 9)(Tractors prior to unit #18020. Order Breather Assy., 679375)
	0679375-6	1	BREATHER ASSEMBLY (Consists of items 10 thru 14)(Tractors unit #18020 and up)
	0901694-0	1	ELBOW, pipe, 45°, 3/4"NPT
	0912085-8	1	NIPPLE, pipe, 3/4"NPT x 7"
7	3002767-6	1	BASE, breather
8	3002769-2	1	ELEMENT, breather
9	3002768-4	1	CAP, breather
	0914172-2	1	SCREW, machine, #10NF x 1-1/4"
	0904203-7	1	LOCKWASHER, #10
10	-----	1	BASE, breather (Not required separately)
11	0679115-6	1	ELEMENT, breather
12	0679118-0	1	COVER, breather
13	0678591-9	1	GASKET, wing nut
14	0918470-6	1	NUT, wing, 1/4"NC

Replaces page 131 in HD21 Series B Parts Catalog 0664645-9
Printed in U.S.A.



TRANSMISSION OIL PUMP AND FILTER LINES

T-75102

TRANSMISSION OIL PUMP AND FILTER LINES

*Tractors prior to serial No. 16550; also tractor serial
No. 10S16551 thru 10S17518 and 10S17579 thru 10S17628
**Tractors serial No. 10S17519 and up excluding 10S17579
thru 10S17628

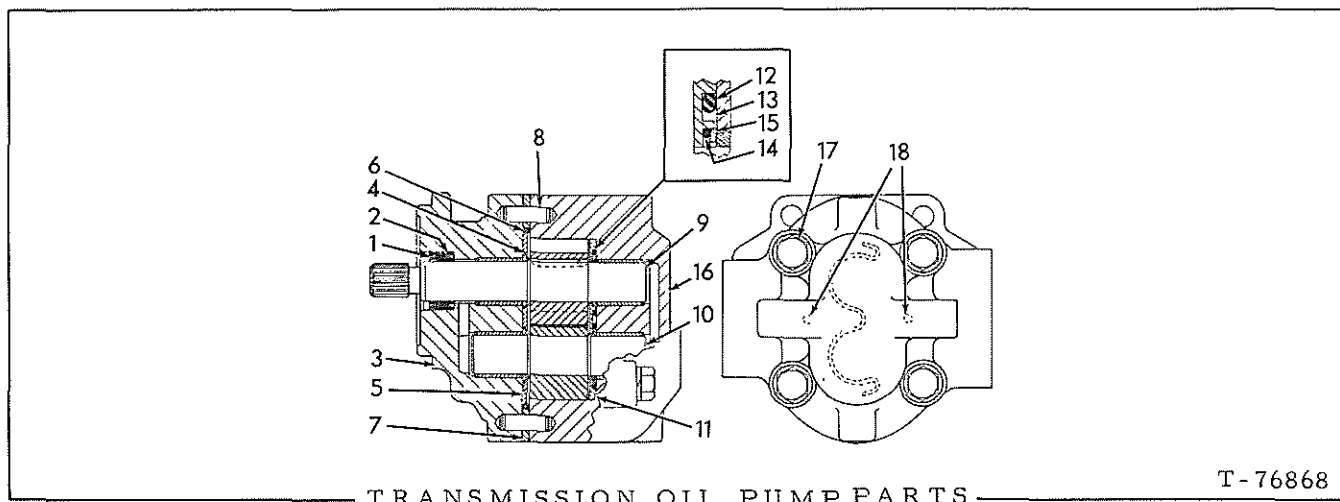
ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	-----	1 -	PUMP ASSY., oil (See page 134)
	-----	- 1	PUMP ASSY., oil (See page 133B)
	0035190-8	2 -	CAPSCREW, 1/2"NC x 1-1/2"
	0916311-4	- 2	CAPSCREW, 1/2"NC x 1-1/4"
	0904208-6	2 2	LOCKWASHER, 1/2"
2	0923587-0	1 1	O-RING, oil pump
3	0660877-2	1 -	HOSE, pump to filter (See HOSE PARTS)
	0670757-4	- 1	HOSE, pump to filter (See HOSE PARTS)
	0921228-3	1 -	CONNECTOR, flare type, 1" tube, 1-5/16"NF straight male thread (Includes O-RING)
	0921227-5	1 1	ELBOW, adjustable, 90°, flare type, 1" tube, 1-5/16" straight male thread (Includes washer, nut and O-RING)
	0921214-3	2 1	O-RING
4	0925622-3	2 2	CLIP, hose supporting
	0914847-9	1 1	CAPSCREW, 3/8"NC x 1-1/2"
	0911115-4	1 1	WASHER, plain, SAE std., 3/8"
	0904206-0	1 1	LOCKWASHER, 3/8"
	0911026-3	1 1	NUT, 3/8"NC
5	0044973-6	1 1	WASHER, clip spacing
6	0095869-4	1 1	CLIP, hose supporting
	0916310-6	1 1	CAPSCREW, 1/2"NC x 1"
	0910244-5	2 2	WASHER, plain, SAE std., 1/2"
	0904208-6	1 1	LOCKWASHER, 1/2"
	0911028-9	1 1	NUT, 1/2"NC
7	-----	1 1	FILTER ASSY., oil (See page 135)
	0919840-9	1 1	PLUG, pipe, hex-hd., 1/4"NPT
	0920583-2	3 3	CAPSCREW, 1/2"NC x 1-1/2"
	0912441-3	3 3	LOCKWASHER, 1/2"
8	0660875-6	1 1	HOSE, filter to torque converter (See HOSE PARTS)
	0921227-5	1 1	ELBOW, adjustable, 90°, flare type, 1" tube, 1-5/16" straight male thread (Includes washer, nut and O-RING)
	0921214-3	1 1	O-RING, elbow
9	0921117-8	2 4	FLANGE, hose attaching (half only)
	0916197-7	4 8	CAPSCREW, 7/16"NC x 1-1/4"
	0904207-8	4 8	LOCKWASHER, 7/16"
10	3002227-1	1 1	O-RING, hose flange
11	0921235-8	- 1	O-RING, hose flange
12	0670668-3	- 1	TUBE, suction line
	0916311-4	- 2	CAPSCREW, 1/2"NC x 1-1/4"
	0916315-5	- 2	CAPSCREW, 1/2"NC x 2-1/4"
	0904208-6	- 4	LOCKWASHER, 1/2"

(Continued)

TRANSMISSION OIL PUMP AND FILTER LINES (Continued)

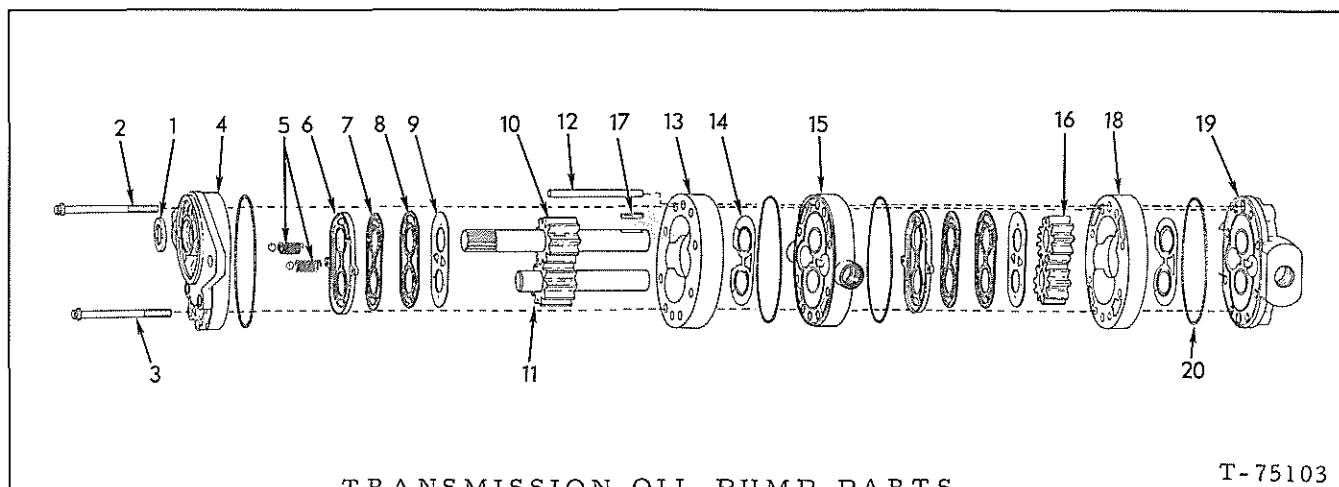
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
13	0921887-6	-	1	O-RING, suction line tube
14	0623234-2	2	2	HOSE, suction line
	0921913-0	8	8	CLAMP, hose, 1-13/16" to 2-3/4" diam.
15	0653874-1	1	-	TUBE, suction line
	0670666-7	-	1	TUBE, suction line
16	0660887-1	1	-	ELBOW ASSY., suction line (Includes item 17)
17	0921214-3	1	-	O-RING, suction line elbow
18	0653873-0	1	1	SCREEN, suction line
	0044249-1	4	4	CAPSCREW, 3/8"NC x 1-1/8"
	0904206-3	4	4	LOCKWASHER, 3/8"
19	0652389-8	1	1	GASKET, suction line screen
20	0667926-9	1	1	BRACKET, filler mounting (Units with oil-bath air cleaner only)
	0920574-1	3	3	CAPSCREW, 1/2"NC x 1-3/8"
	0912441-3	3	3	LOCKWASHER, 1/2"
21	0664855-4	1	1	SPACER, filter mounting bracket
22	0657986-6	1	1	COUPLING, pump
	0188476-6	1	1	RING, snap
23	0637589-3	1	1	STRIP, hose supporting

NOTE: See PAINTING AND MARKING for transfer applied to filter



USAGE: See page 133

ITEM	PART NO.	QTY.	DESCRIPTION	
-	0670675-8	1	PUMP ASSY., oil (Includes items 1 thru 18)	
1	-----	1	SEAL, dust	} See items 19, 20 and 21
2	-----	1	SEAL, oil	
3	-----	1	ADAPTER (Not serviced)	
4	-----	2	O-RING (See items 20 and 21)	
5	-----	1	PLATE, wear (See item 21)	
6	-----	1	RING, seal (See items 20 and 21)	
7	-----	1	PLATE, spacing	} Not serviced
8	-----	2	PIN, dowel	
9	-----	1	SHAFT ASSY. (Includes gears)	
10	-----	1	SHAFT ASSY. (Includes gears)	
11	-----	1	PLATE, wear (See item 21)	
12	-----	1	SEAL, rear cover	} See items 20 and 21
13	-----	1	SEAL, back-up	
14	-----	2	O-RING	
15	-----	2	SEAL, shaft	
16	-----	1	COVER	} Not serviced
17	-----	4	CAPSCREW, cover retaining	
	-----	4	LOCKWASHER	
18	-----	2	PIN, roll	
19	0670672-5	1	KIT, seal (Includes 1 and 2)	
20	0670673-3	1	KIT, minor sevice (Includes items 1, 2, 4, 6, 12, 13, 14 and 15)	
21	0670674-1	1	KIT, intermediate service (Includes 1, 2, 4, 5, 6, 11, 12, 13, 14, and 15)	



TRANSMISSION OIL PUMP PARTS

T-75103

USAGE: See page 133

* Tractors prior to serial No. 16208
 ** Tractors serial No. 16208 and up; also tractors serial No. 10S16551 thru 10S17518 and 10S17579 thru 10S17628

ITEM	PART NO.	QTY. * **	DESCRIPTION	
-	0656474-4	1 -	PUMP ASSEMBLY, oil	} Each includes items 1 thru 13)
-	0662304-5	- 1	PUMP ASSEMBLY, oil	
1	0653935-7	1 1	SEAL, oil	
2	0925219-8	4 4	SCREW, 12-pt-hd, 3/8"NC x 7"	
3	0925218-0	4 4	SCREW, 12-pt-hd, 3/8"NC x 6-3/4"	
4	{ 0653921-7	1 -	PLATE ASSY., front	} Includes bushings
	{ 4905633-6	- 1	PLATE ASSY., front	
5	0653916-7	2 2	SPRING, check valve	
	0921085-7	2 2	BALL, steel, 13/32" diam	
6	0653917-5	2 2	SEAL, diaphragm	
7	{ 0653918-3	2 -	GASKET, diaphragm (.03" thick)	
	{ 0669992-0	- 2	GASKET, diaphragm (.02" thick)	
8	0653919-1	2 2	GASKET, diaphragm (.067" thick)	
9	0653920-9	2 2	DIAPHRAGM, sealing	
10	{ 0661202-2	1 -	GEAR ASSY., drive	} Includes shaft
	{ 0670078-5	- 1	GEAR ASSY., drive	
11	{ 0661201-4	1 -	GEAR ASSY., driven	} Includes shaft
	{ 0670077-7	- 1	GEAR ASSY., driven	
12	0661203-0	2 2	PIN, dowel	
13	{ 0661204-8	1 -	BODY, front	
	{ 0670079-3	- 1	BODY, front	

(Continued)

Replaces page 134 in HD21 Series B Parts Catalog 0664645-9
 Printed in U.S.A.

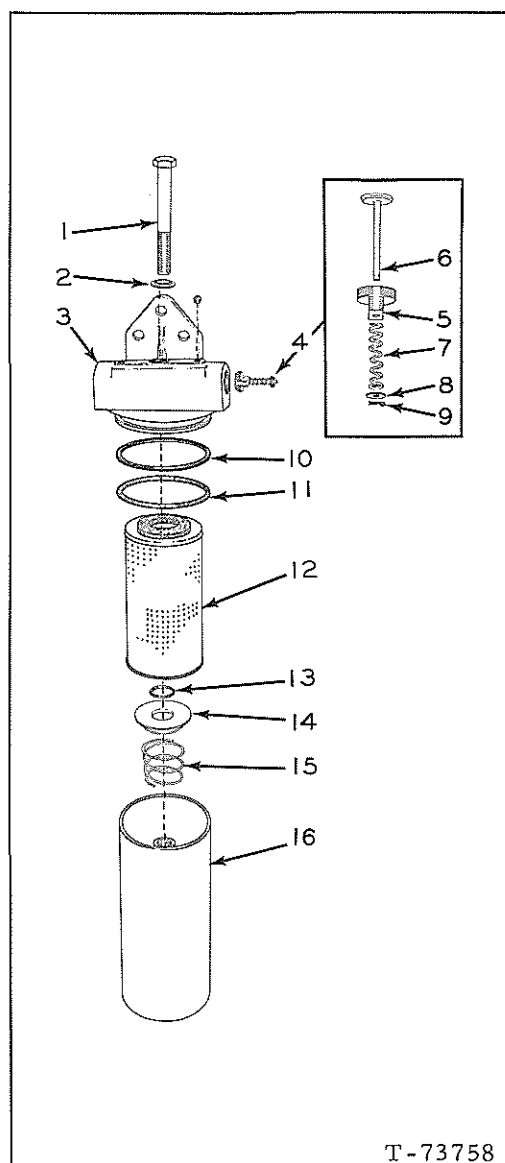
(Revised October 1971)

TRANSMISSION OIL FILTER PARTS

USAGE: See page 133

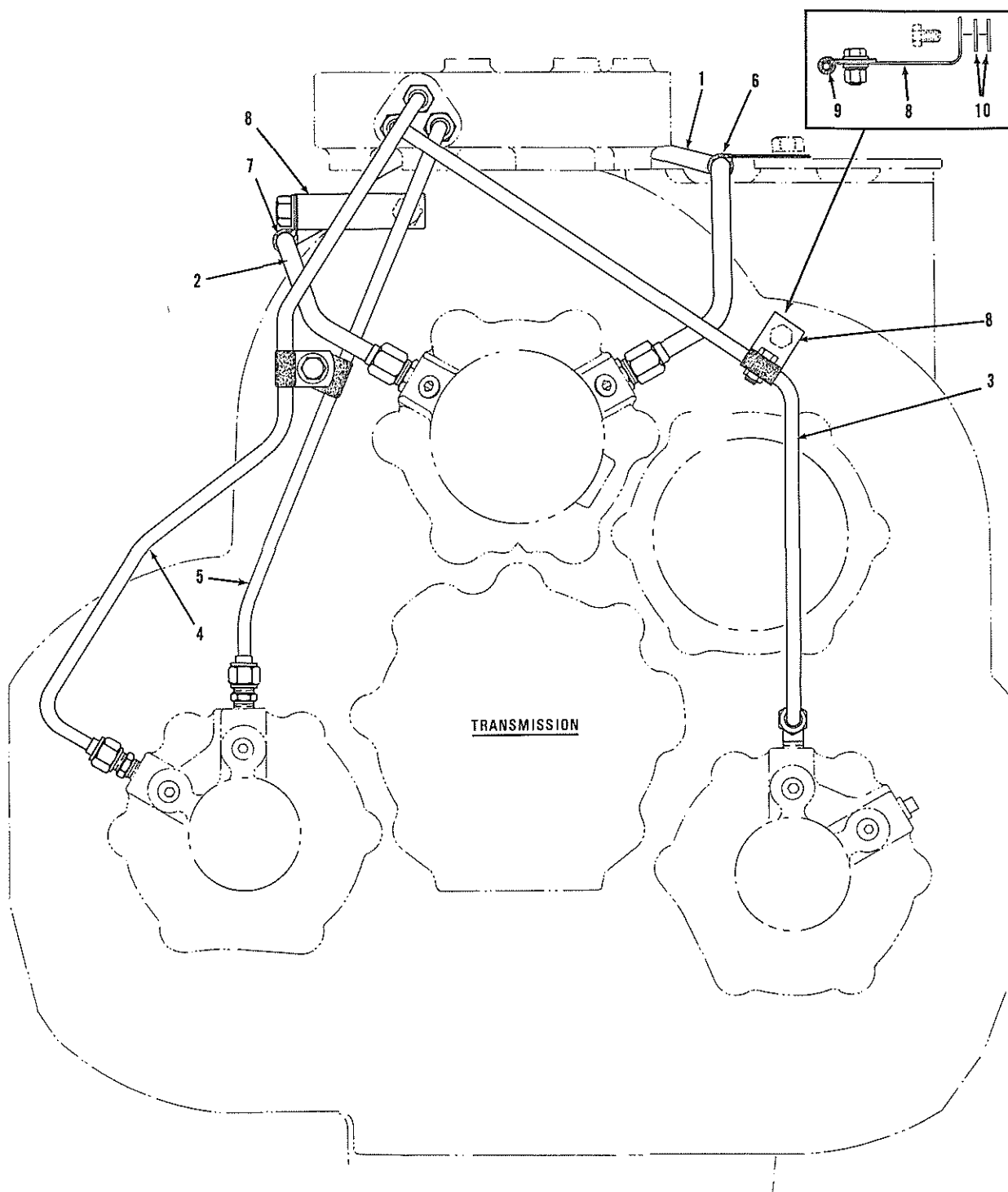
* Tractors prior to Serial No. 16550; also Tractors
Serial No. 10S16551 thru 10S17196

** Tractors Serial No. 10S17197 and up



ITEM	PART NO.	QTY. * **	DESCRIPTION
-	0659519-3	1 -	FILTER ASSY., oil
-	0676660-4	- 1	FILTER ASSY., oil
1	0923438-6	1 1	CAPSCREW, tank retaining (3/4"NF x 5-1/2")
2	0641029-4	1 1	WASHER, tank retaining capscrew
3	0677289-1	1 1	HEAD ASSY. (Includes item 4 and plug indented below)
	0901652-8	2 2	PLUG, pipe, 1/4"NPT
4	0661534-8	1 1	VALVE ASSY., by-pass (Consists of items 5 thru 9)
5	-----	1 1	HOUSING, by-pass valve (Not serviced separately)
6	-----	1 1	VALVE, by-pass (Not serviced separately)
7	0661268-3	1 1	SPRING, by-pass valve
8	0632060-0	1 1	WASHER, by-pass valve spring
9	0900970-5	1 1	PIN, cotter, 1/16" x 1/2"
10	0646532-2	1 1	RING, back-up
11	{ 0923836-1	1 -	O-RING, filter head
	{ 0671617-9	- 1	O-RING, filter head
12	{ 0640780-3	1 -	ELEMENT KIT (Ele- ment is 8-1/2" long)
	{ 0669434-3	- 1	ELEMENT KIT (Ele- ment is 12-1/2" long)
13	{ 0923649-8	1 -	O-RING, element seating plate
	{ 0671616-1	- 1	O-RING, element seating plate
14	0641031-0	1 1	PLATE, element seating
15	{ 0641027-8	1 -	SPRING, element seating plate
	{ 0671615-3	- 1	SPRING, element seating plate
16	{ 0650428-6	1 -	TANK (12-1/4" long)
	{ 0671497-6	- 1	TANK (16-1/4" long)

Replaces page 135 in HD21 Series B Parts Catalog 0664645-9
Printed in U.S.A.



SPEED CONTROL PIPING

T-74952

Replaces page 136 in HD21 Series B Parts Catalog 0664645-9
 Printed in U.S.A.

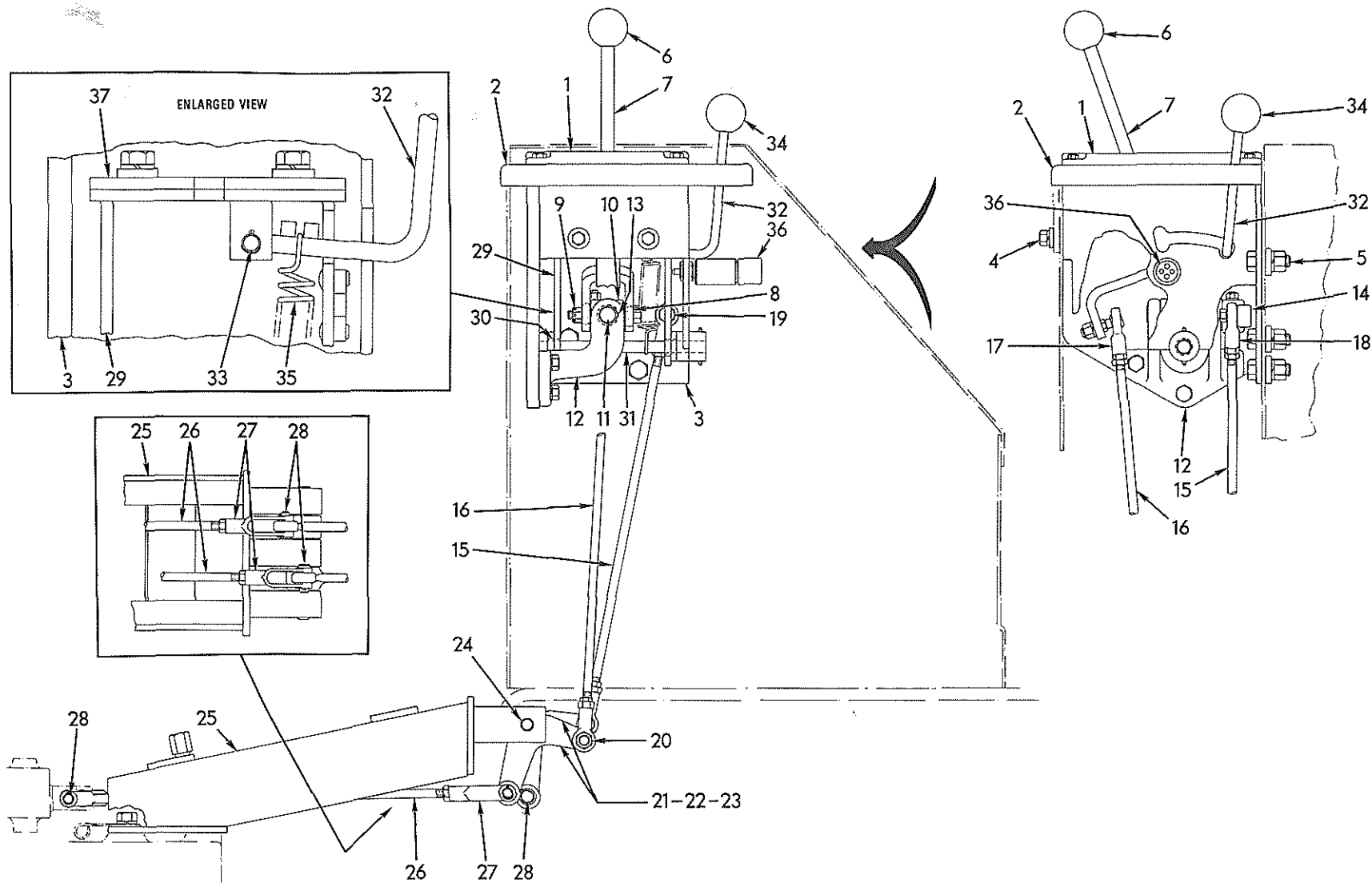
(Revised October 1971)

SPEED CONTROL PIPING

ITEM	PART NO.	QTY.	DESCRIPTION
1	0663472-7	1	TUBE ASSY., inhibitor valve to forward and reverse shaft collector, left side (Includes nuts)
	0921409-9	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING)
	0922507-9	1	ELBOW, adjustable, 45°, flare type, 1/2" tube, 3/4"NF (Includes washer, nut and O-RING)
	0921349-7	2	O-RING
2	0658640-8	1	TUBE ASSY., inhibitor valve to forward and reverse shaft collector right side (Includes nuts)
	0921409-9	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING)
	0921402-4	1	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4"NF (Includes washer, nut and O-RING)
	0921349-7	2	O-RING
3	0654066-0	1	TUBE ASSY., control valve to clutch shaft collector (1st speed)
	0922522-8	1	CONNECTOR, flare type, 3/8" tube, 9/16" male end (Includes O-RING)
	0919136-2	1	ELBOW, flare type, 3/8" tube, 3/8"NPT male
	0921885-0	1	O-RING, connector
4	0654053-8	1	TUBE ASSY., control valve to clutch shaft collector (2 nd speed) (Tractors prior to #16199)
	0669687-7	1	TUBE ASSY., control valve to clutch shaft collector (2nd speed) (Tractor # 16199 and up)
	0919172-7	1	CONNECTOR, flare type, 3/8" tube , 3/8"NPT male
	0922522-8	1	CONNECTOR, flare type, 3/8" tube, 9/16" male end (Includes O-RING)
5	0921885-0	1	O-RING, connector
	0654039-7	1	TUBE ASSY., control valve to clutch shaft collector (3rd speed) (Tractors prior to #16199)
	0669686-8	1	TUBE ASSY., control valve to clutch shaft collector (3rd speed) (Tractor #16199 and up)
	0919172-7	1	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male
6	0922522-8	1	CONNECTOR, flare type, 3/8" tube, 9/16" male end (Includes O-RING)
	0921885-0	1	O-RING, connector
	0641504-6	1	CLIP, tube supporting, left
	0620063-8	1	CLIP, tube supporting, right
7	0916310-6	1	CAPSCREW, 1/2"NC x 1"
	0910244-3	1	WASHER, plain, SAE std., 1/2"
	0904208-6	1	LOCKWASHER, 1/2"
	0911028-9	1	NUT, 1/2"NC
8	0642533-4	2	ANGLE, tube supporting
9	0640675-5	3	CLIP, tube supporting
	0915408-9	2	CAPSCREW, 3/8"NC x 3/4"
	0911115-4	4	WASHER, plain, SAE std., 3/8"
	0904206-0	2	LOCKWASHER, 3/8"
10	0911026-3	2	NUT, 3/8"NC
	0058614-9	3	WASHER, spacing, supporting angle

Replaces page 137 in HD21 Series B parts catalog 0664645-9
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(Revised October 1971)

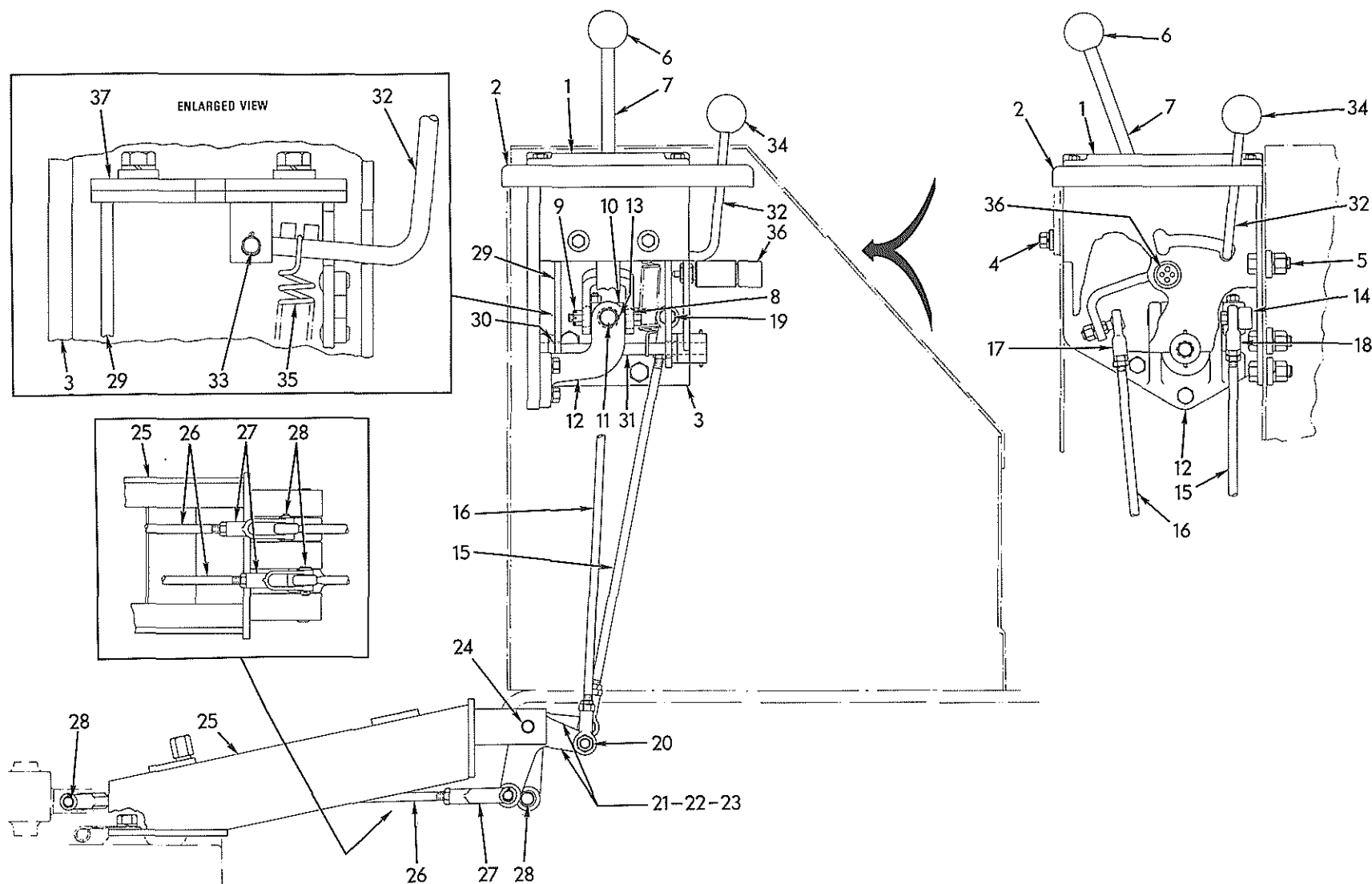


SPEED CONTROL LINKAGE

T-74953

SPEED CONTROL PIPING

ITEM	PART NO.	QTY.	DESCRIPTION
1	663472	1	TUBE ASSEMBLY, inhibitor valve to forward and reverse shaft collector, left side (Includes nuts)
	921409	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING 921349)
	922507	1	ELBOW, adjustable, 45°, flare type, 1/2" tube, 3/4"NF (Includes washer, nut and O-RING 921349)
2	658640	1	TUBE ASSEMBLY, inhibitor valve to forward and reverse shaft collector right side (Includes nuts)
	921409	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING 921349)
	921402	1	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4"NF (Includes washer, nut and O-RING 921349)
3	654066	1	TUBE ASSEMBLY, control valve to clutch shaft collector (1st speed)
	922522	1	CONNECTOR, flare type, 3/8" tube, 9/16" male end (Includes O-RING 921885)
	919136	1	ELBOW, flare type, 3/8" tube, 3/8"NPT male
4	654053	1	TUBE ASSEMBLY, control valve to clutch shaft collector (2nd speed)
	919172	1	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male
	922522	1	CONNECTOR, flare type, 3/8" tube, 9/16" male end (Includes O-RING 921885)
5	654039	1	TUBE ASSEMBLY, control valve to clutch shaft collector (3rd speed)
	919172	1	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male
	922522	1	CONNECTOR, flare type, 3/8" tube, 9/16" male end (Includes O-RING 921885)
6	641504	1	CLIP, tube supporting, left
7	620063	1	CLIP, tube supporting, right
	916310	1	CAPSCREW, 1/2"NC x 1"
	910244	1	WASHER, plain, SAE std., 1/2"
	904208	1	LOCKWASHER, 1/2"
	911028	1	NUT, 1/2"NC
8	642533	1	ANGLE, tube supporting



SPEED CONTROL LINKAGE

T-74953

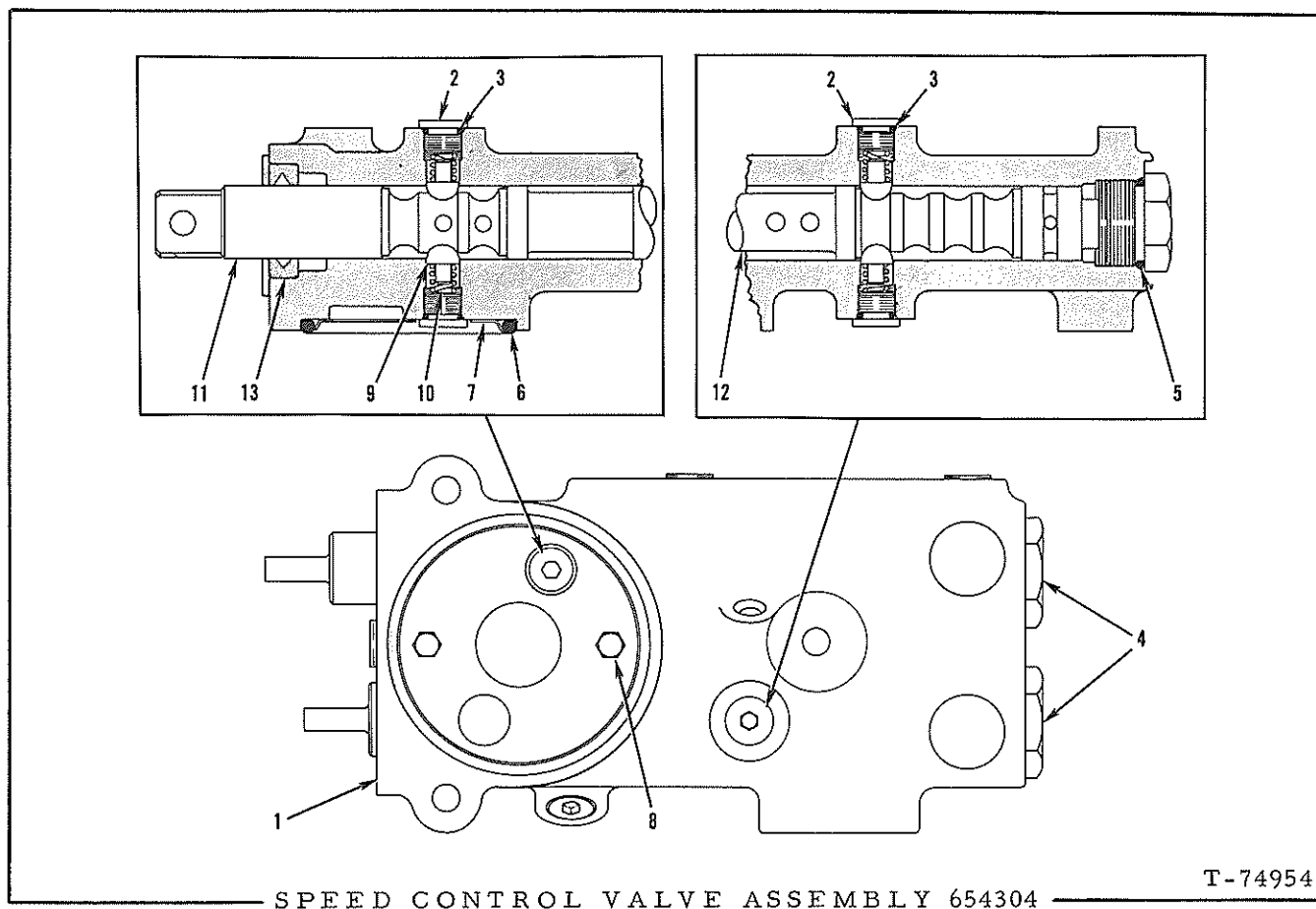
SPEED CONTROL LINKAGE

ITEM	PART NO.	QTY.	DESCRIPTION
1	653778	1	GUIDE, control
	092013	4	CAPSCREW, Nylok, 3/8"NC x 1-1/8"
2	659700	1	COVER, shifting tower bracket
3	653902	1	BRACKET, shifting tower
4	070960	2	CAPSCREW, 3/8"NC x 1-1/2"
	904206	2	LOCKWASHER, 3/8"
	044973	2	WASHER, plain
5	035190	3	CAPSCREW, 1/2"NC x 1-1/2"
	064531	3	WASHER, plain
	904208	3	LOCKWASHER, 1/2"
	911028	3	NUT, 1/2"NC
6	629709	1	KNOB, speed shift lever
7	653726	1	LEVER ASSEMBLY, speed shift (Includes item 8)
8	650712	2	BEARING, speed shift lever
9	652857	1	CAPSCREW, speed shift lever
	910863	1	NUT, slotted, 3/8"NF
	907801	1	PIN, cotter, 3/32" x 3/4"
10	653795	1	BLOCK, lever pivot
11	653796	1	SHAFT, speed shift lever
12	656784	1	BRACKET ASSEMBLY, speed shift lever shaft (Includes item 13)
	012992	3	CAPSCREW, 3/8"NF x 1-1/4"
	904206	3	LOCKWASHER, 3/8"
13	630795	2	BUSHING, bracket, lever shaft
14	652512	1	LEVER, control valve
	905123	1	KEY, #9 woodruff, 3/16" x 3/4"
	905664	1	CAPSCREW, 5/16"NC x 1-3/4"
	904205	1	LOCKWASHER, 5/16"
	911025	1	NUT, 5/16"NC
15	656919	1	ROD, valve control, forward and reverse (vertical, rear position)
	911048	2	NUT, jam, 3/8"NF
16	652366	1	ROD, valve control, speed selection (vertical, front position)
	911048	2	NUT, jam, 3/8"NF
17	653721	1	JOINT, ball, speed selection rod (upper position)
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
18	617932	3	END, rod (female)
19	092013	1	CAPSCREW, Nylok, 3/8"NC x 1-1/8"
20	070960	2	CAPSCREW, 3/8"NC x 1-1/2"
	904206	2	LOCKWASHER, 3/8"
	911026	2	NUT, 3/8"NC
21	655746	2	BELLCRANK ASSEMBLY, control rods (Includes items 22 and 23)

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SPEED CONTROL LINKAGE (Continued)

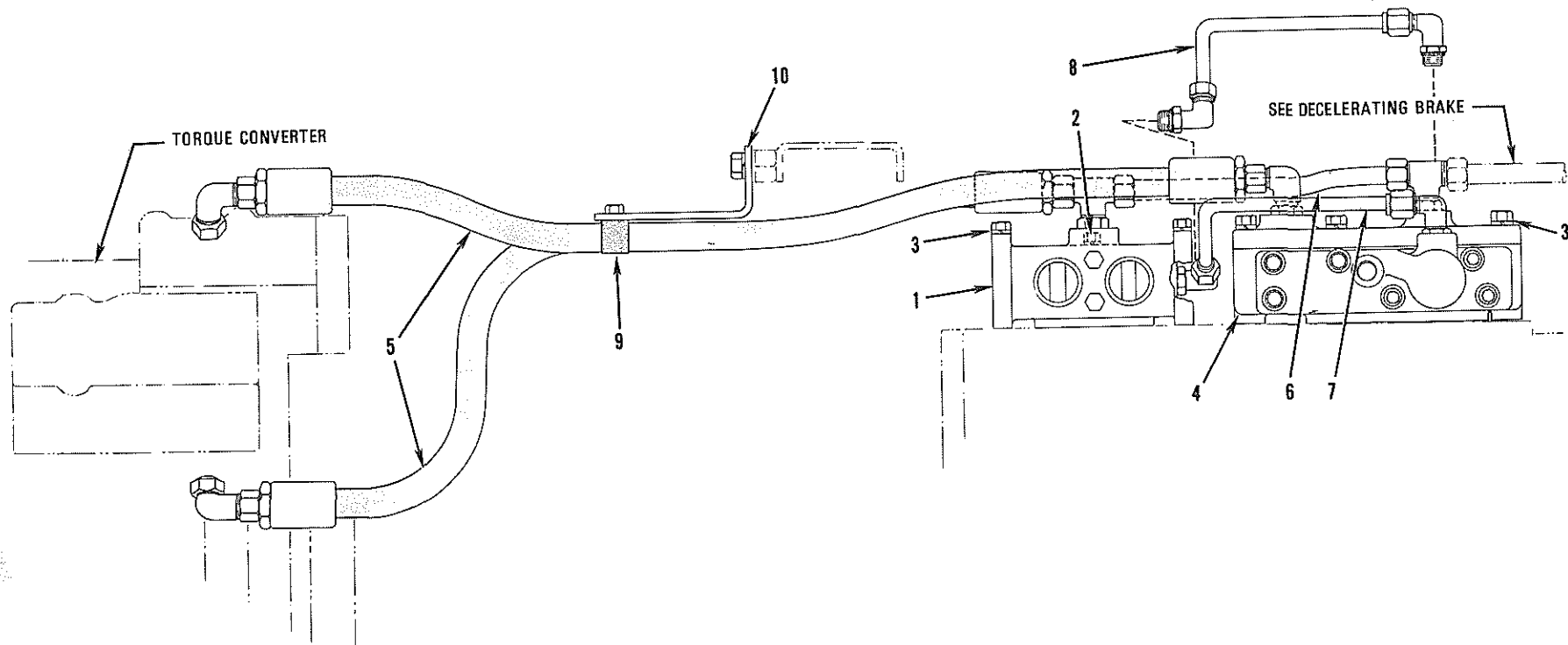
ITEM	PART NO.	QTY.	DESCRIPTION
22	624584	2	BUSHING, bellcrank (small)
23	631476	2	BUSHING, bellcrank (large)
24	653794	1	SHAFT, bellcrank pivot
	918413	1	PIN, spring, 1/8" x 1-5/8"
25	653750	1	BRACKET, bellcrank
	916311	3	CAPSCREW, 1/2"NC x 1-1/4"
	904208	3	LOCKWASHER, 1/2"
26	653954	2	ROD, control (horizontal)
	911048	2	NUT, jam, 3/8"NF
27	628736	2	YOKE, horizontal control rods
28	078810	4	PIN, yoke, horizontal control rods
	900801	4	PIN, cotter, 3/32" x 3/4"
29	653862	1	BRACKET ASSEMBLY, neutral lock (Includes item 30)
30	049988	2	BUSHING, neutral lock bracket
31	653854	1	SHAFT, pivot, neutral lock bracket
	918413	1	PIN, spring, 1/8" x 1-5/8"
32	653855	1	LEVER, neutral lock
33	078810	1	PIN, neutral lock lever
	900801	1	PIN, cotter, 3/32" x 3/4"
34	632038	1	KNOB, neutral lock lever
35	650726	1	SPRING, neutral lock lever
36	631844	1	SWITCH, safety (Includes mounting nuts)
37	653857	1	BAR, adjustment, neutral lock bracket
	036032	2	CAPSCREW, 3/8"NF x 3/4"
	904206	2	LOCKWASHER, 3/8"
	630753	2	WASHER, plain



USAGE: See page 143

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	BODY, valve (Not serviced separately)
2	926697	9	PLUG, valve body (Includes item 3)
3	921885	9	O-RING, body plug (small)
4	921216	2	PLUG, valve body (Includes item 5)
5	921214	2	O-RING, body plug (large)
6	923589	1	O-RING, valve sealing
7	664651	1	RETAINER, o-ring
8	664650	2	CAPSCREW, #10-24NC x 3/8"
9	668598	4	DETENT
10	668599	4	SPRING, detent
11	-----	1	PLUNGER, operating, speed selection
12	-----	1	PLUNGER, operating, forward and reverse
13	3037744	2	SEAL, oil

} Not serviced separately

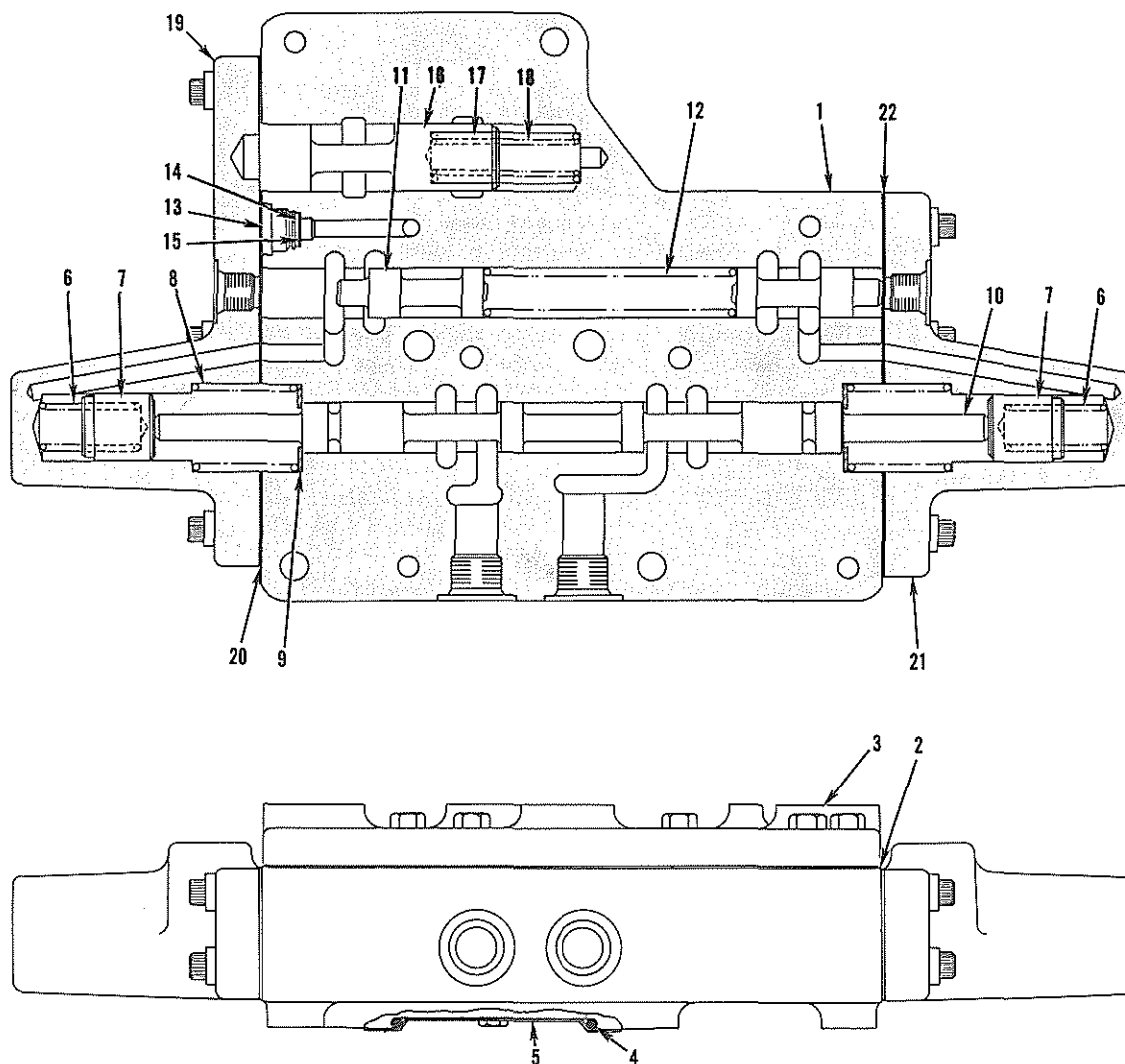


SPEED CONTROL VALVES AND LINES

T-75088

SPEED CONTROL VALVES AND LINES

ITEM	PART NO.	QTY.	DESCRIPTION
1	654304	1	VALVE ASSY., speed control (See page 141 for parts)
2	919015	1	CAPSCREW, 3/8"NC x 3-1/2"
3	916275	2	CAPSCREW, 3/8"NC x 3-3/4"
	904206	3	LOCKWASHER, 3/8"
4	662559	1	VALVE ASSY., shift inhibiting (See page 144 for parts)
	916275	3	CAPSCREW, 3/8"NC x 3-3/4"
	904206	3	LOCKWASHER, 3/8"
5	656849	2	HOSE, torque converter to valves (See HOSE PARTS)
	921402	3	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4"NF (Includes washer, nut and O-RING 921349)
	923157	1	TEE, adjustable, flare type, 1/2" tube, 3/4"NF male side (Includes washer, nut and O-RING 921349)
6	662368	1	TUBE ASSY., tee to inhibitor valve (Includes nuts)
	923157	1	TEE, adjustable, flare type, 1/2" tube, 3/4"NF male side (Includes washer, nut and O-RING 921349)
7	662315	1	TUBE ASSY., speed control valve to inhibitor valve, left (Includes nuts)
	922523	2	ELBOW, adjustable, 90°, flare type, 3/8" tube, 9/16"NF (Includes washer, nut and O-RING 921885)
8	662367	1	TUBE ASSY., speed control valve to inhibitor valve, right (Includes nuts)
	922523	1	ELBOW, adjustable, 90°, flare type, 3/8" tube, 9/16"NF (Includes washer, nut and O-RING 921885)(short type)
	925295	1	ELBOW, adjustable, 90°, flare type, 3/8" tube, 9/16"NF (Includes washer, nut and O-RING 921885)(long type)
9	622992	2	CLIP, hose supporting
	916271	1	CAPSCREW, 3/8"NC x 1"
	911115	1	WASHER, plain, SAE std., 3/8"
	904206	1	LOCKWASHER, 3/8"
	911026	1	NUT, 3/8"NC
10	638313	1	ANGLE, hose supporting
	916310	1	CAPSCREW, 1/2"NC x 1"
	904208	1	LOCKWASHER, 1/2"



SHIFT INHIBITING VALVE ASSEMBLY 662559

T-75089

USAGE: See page 143

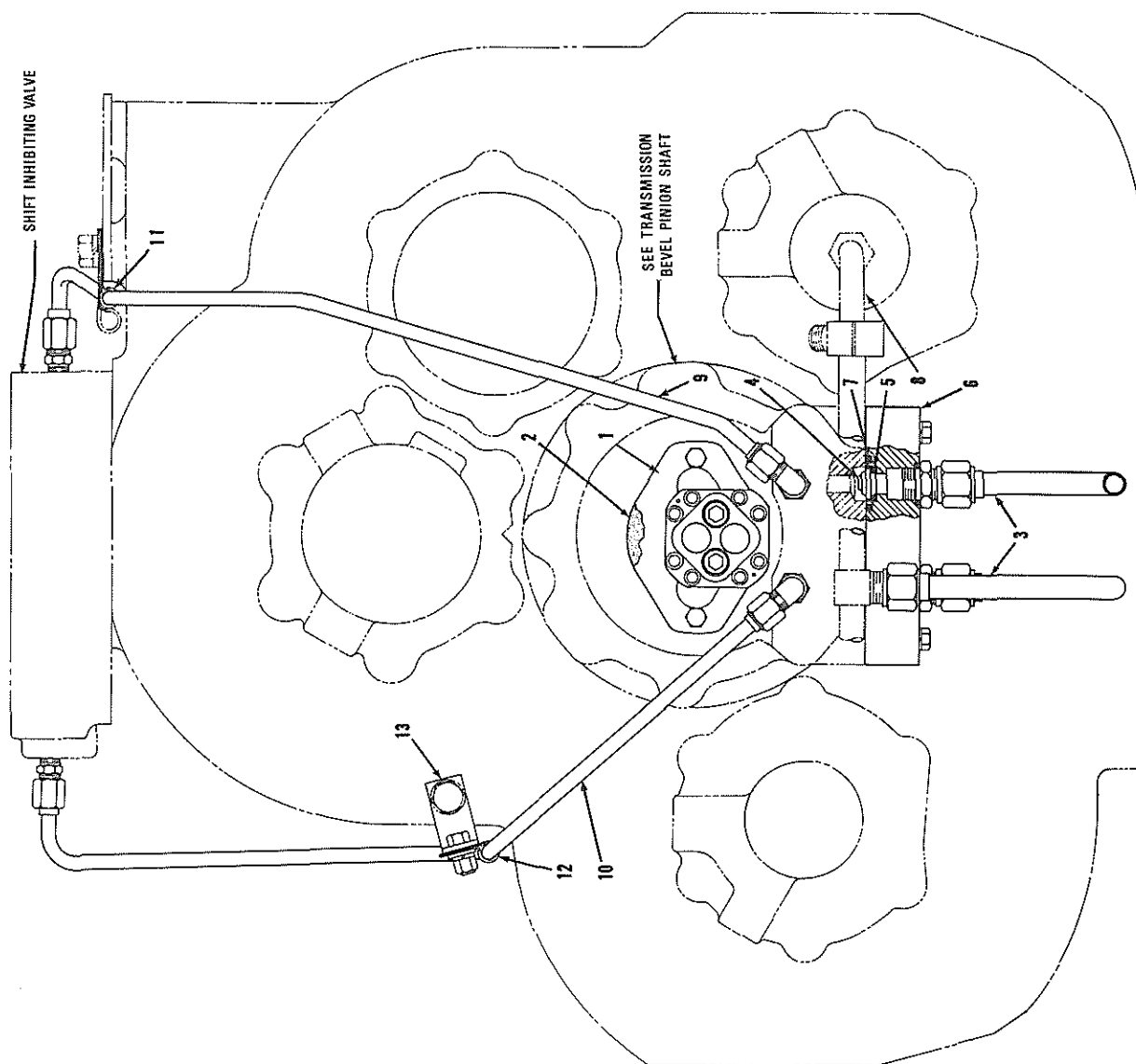
ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	BODY (Not serviced separately)
2	667633	1	GASKET, cover
3	667634	1	COVER, top
	919224	8	CAPSCREW, 3/8"NC x 1-1/8"
4	923831	1	O-RING, valve mounting
5	664651	1	RETAINER, valve mounting o-ring
	664650	2	CAPSCREW, #10-24NC x 3/8"
6	189269	2	SPRING, follower piston
7	664655	2	PISTON, follower, direction control

(Continued)

SHIFT INHIBITING VALVE ASSEMBLY 662559 (Continued)

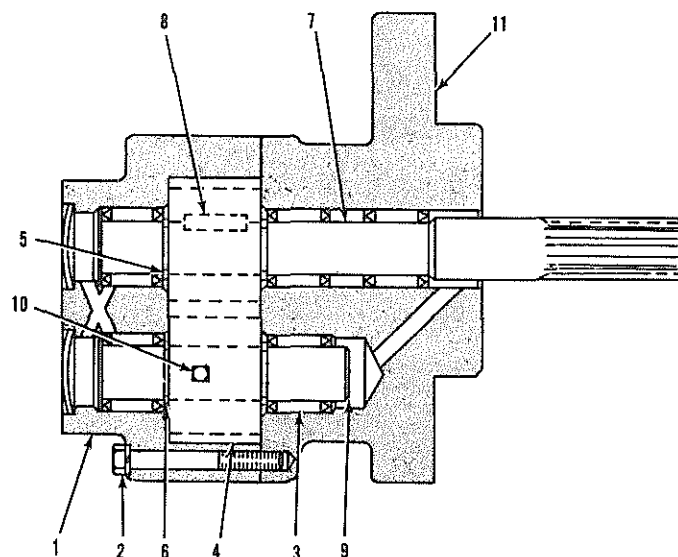
ITEM	PART NO.	QTY.	DESCRIPTION
8	664656	2	SPRING, direction control piston
9	667632	2	WASHER, spring
10	664664	1	PISTON, direction control
11	664659	2	PISTON, flow regulating
12	667638	1	SPRING, regulating piston
13	657463	1	VALVE, orifice
14	662919	1	RING, snap, screen retaining
15	639939	1	SCREEN, oil
16	667640	1	PISTON, flow sensing
17	667637	1	SPRING, flow sensing piston, outer
18	664652	1	SPRING, flow sensing piston, inner
19	664654	1	COVER, side (large)
	922820	6	CAPSCREW, 12-pt. hd., 3/8"NC x 1-1/4"
20	664657	1	GASKET, side cover (large)
21	667635	1	COVER, side (small)
	922820	5	CAPSCREW, 12-pt. hd., 3/8"NC x 1-1/4"
22	667639	1	GASKET, side cover (small)

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



SHIFT INHIBITING PUMP LINES

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	PUMP ASSEMBLY, oil supply, shift inhibiting valve (See page 148)
	0915813-0	2	CAPSCREW, 5/16"NC x 7/8"
	0904205-2	2	LOCKWASHER, 5/16"
2	0667563-1	1	GASKET, pump mounting
3	0667260-4	2	TUBE ASSEMBLY, suction (Includes nuts)
	0921326-5	2	CONNECTOR, flare type, 5/8" tube, 7/8" tube, 7/8"NF straight male thread (Includes O-RING)
	0921205-1	2	O-RING, connector
4	0654831-7	2	VALVE, check, suction line
5	0923561-5	2	O-RING, suction line check valve
5A	0669709-6	2	RING, O-ring retaining
6	0667709-9	1	RETAINER, check valve
	0910948-9	2	CAPSCREW, 3/8"NC x 2"
	0904206-0	2	LOCKWASHER, 3/8"
7	0923947-6	2	O-RING, retainer
8	-----	-	TUBE ASSEMBLY, oil jumper (See TRANSMISSION)
9	0659683-7	1	TUBE ASSEMBLY, pump to shift inhibiting valve, left (Includes nuts)
	0922522-8	1	CONNECTOR, flare type, 3/8" tube, 9/16" male end (Includes O-RING)
	0922523-6	1	ELBOW, adjustable, 90°, flare type, 3/8" tube, 9/16"NF (Includes washer, nut and O-RING)
	0921885-0	2	O-RING
10	0669179-4	1	TUBE ASSEMBLY, pump to shift inhibiting valve, right (Includes nuts)
	0922522-8	1	CONNECTOR, flare type, 3/8" tube, 9/16" male end (Includes O-RING)
	0922523-6	1	ELBOW, adjustable, 90°, flare type, 3/8" tube, 9/16"NF (Includes washer, nut and O-RING)
	0921885-0	2	O-RING
11	0659422-0	1	CLIP, supporting, left tube
12	0640675-5	1	CLIP, supporting, right tube
	0915408-9	1	CAPSCREW, 3/8"NC x 3/4"
	0911115-4	1	WASHER, plain, SAE std., 3/8"
	0904206-0	1	LOCKWASHER, 3/8"
	0911026-3	1	NUT, 3/8"NC
13	0662578-4	1	ANGLE, tube supporting



T-74962

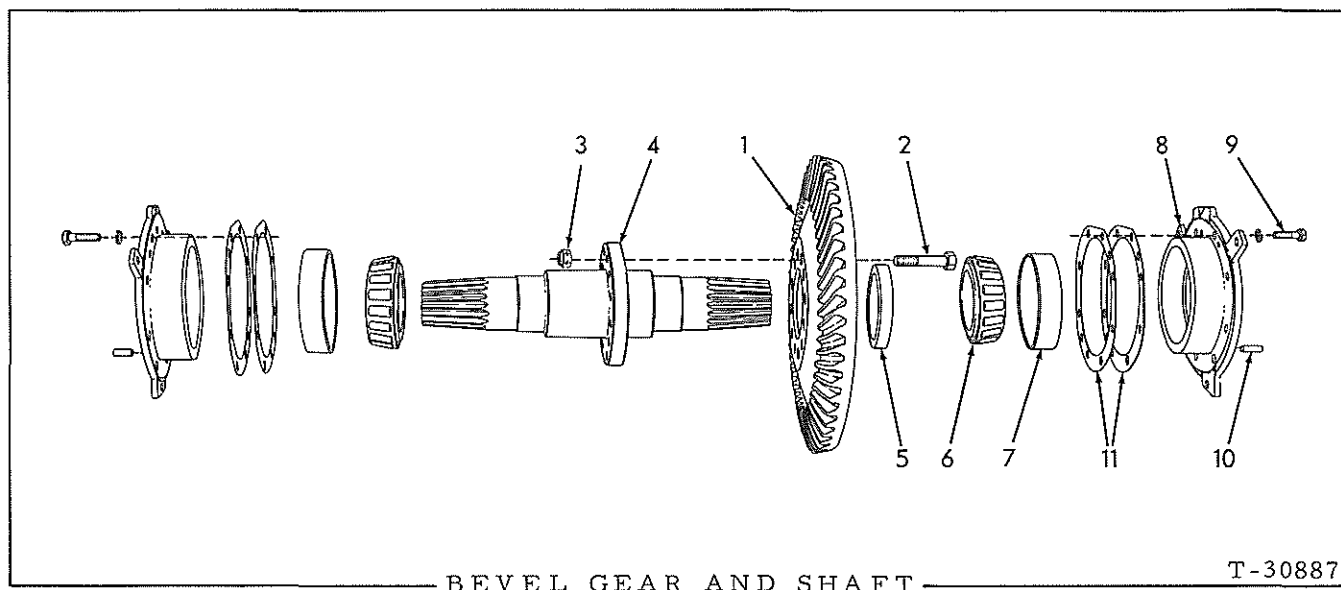
SHIFT INHIBITING PUMP

USAGE: See page 147

*Tractors prior to serial No. 16650; also tractors serial No. 10S16551 thru 10S17000

** Tractors serial No. 10S17001 and up

ITEM	PART NO.	QTY.	DESCRIPTION
-	0667752-0	1 -	PUMP ASSEMBLY
-	0669932-6	- 1	PUMP ASSEMBLY
} Each includes items 1 thru 11)			
1	-----	1 1	HOUSING, gear (Not serviced separately)
	0914590-5	2 2	PLUG, expansion, 11/16" diam.
2 {	4999593-9	8 -	SCREW ASSEMBLY (Includes lockwasher)
	0923448-5	- 8	CAPSCREW, 12 point, 1/4"NC x 1-3/4"
	0904204-5	- 8	LOCKWASHER, 1/4"
3	4980021-2	5 5	BEARING, roller, shaft
4 {	0668479-9	2 -	GEAR
	0670157-7	- 2	GEAR
5	3015050-2	2 2	RING, snap, drive gear retaining
6	0099949-0	2 2	RING, snap, idler gear retaining
7 {	0668480-7	1 -	SHAFT, drive
	0670159-3	- 1	SHAFT, drive
8	0668482-3	1 1	KEY, drive gear (1/8" x 1/2")
9 {	0668481-5	1 -	SHAFT, idler
	0670158-5	- 1	SHAFT, idler
10	0244554-2	1 1	PIN, drive, idler gear
11	-----	1 1	STATOR, pump (Not serviced separately)

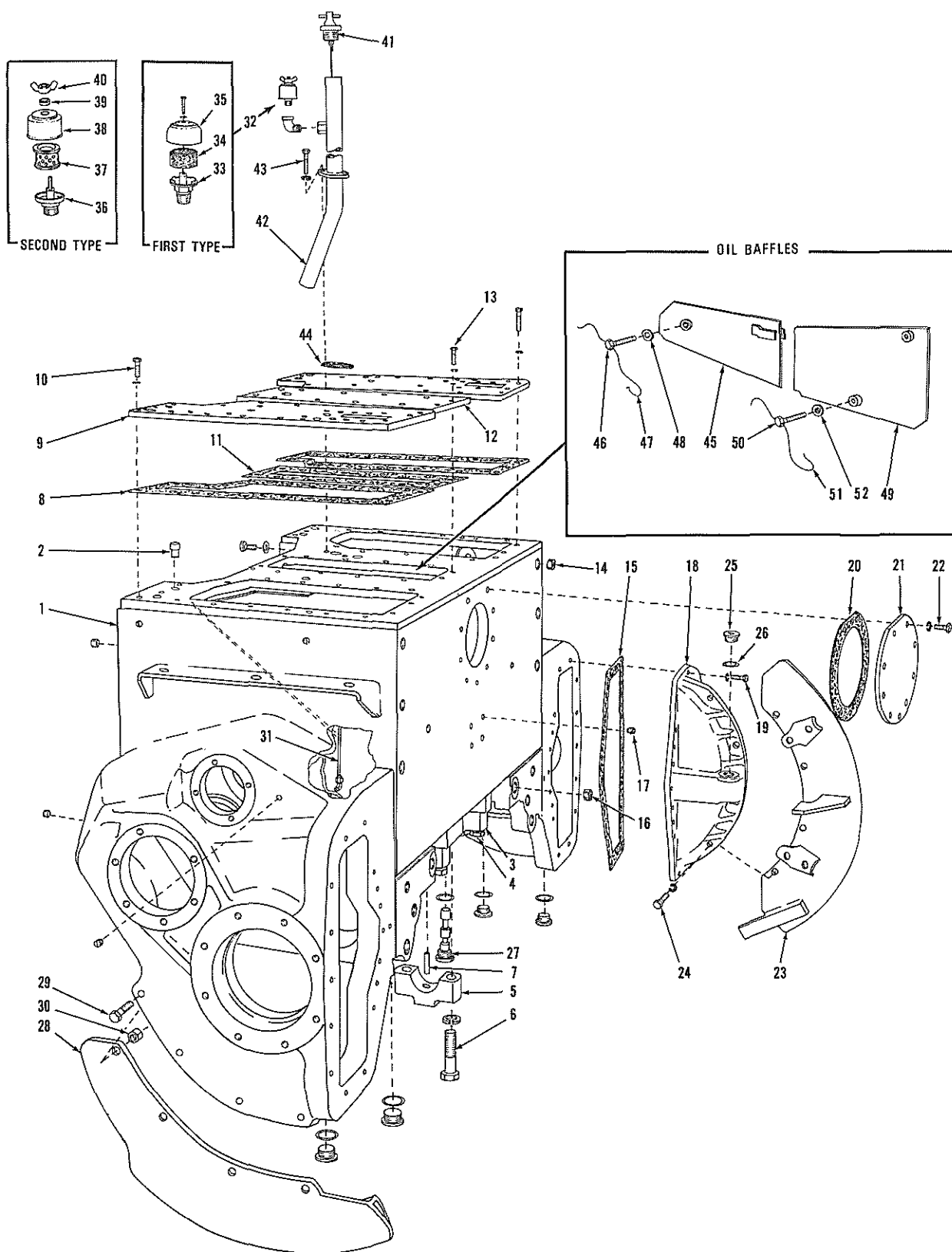


BEVEL GEAR AND SHAFT

T-30887

ITEM	PART NO.	QTY.	DESCRIPTION
1	0629085-2	1	GEAR, bevel (45 teeth)
2	0645321-1	12	CAPSCREW
3	0645319-5	12	NUT, elastic stop, 3/4"NF
4	0675017-8	1	SHAFT, bevel gear (If for first replacement on tractors prior to unit #17209 also order 1 CAPSCREW 0673521-1 and 1 WASHER 0673522-9)
5	0645316-1	1	RING, spacing, shaft bearing
6	0051997-5	2	CONE ASSY., shaft bearing
7	0042877-1	2	CUP, shaft bearing
8	0623006-4	2	CAGE ASSY., bearing (Includes item 10)
9	0927522-3	16	CAPSCREW, 1/2"NF x 1-3/4"
	0912441-3	16	LOCKWASHER, 1/2"
10	0052459-5	4	PIN, bearing cage
11	0067483-8	12	SHIM, bearing adjustment (.005" thick)
	0067484-6	10	SHIM, bearing adjustment (.007" thick)
	0067485-3	4	SHIM, bearing adjustment (.030" thick)

Use as required



MAIN HOUSING

T-75109

Replaces page 150 in HD21 Series B Parts Catalog 0664645-9
Printed in U. S. A.

(Revised October 1971)

MAIN HOUSING

ITEM	PART NO.	QTY.	DESCRIPTION
1	0652007-1	1	HOUSING ASSY. (Includes items 2 thru 7)(Tractors prior to unit #18516. Order HOUSING 0684241-3 and FINAL DRIVE KIT 0684272-8 (See page 9A).
	0684241-3	1	HOUSING ASSY. (Includes items 2 thru 7)(Tractors unit #18516 and up)
	0911081-8	2	PLUG pipe, slotted-hd. 1/4"NPT
	0904223-5	2	PLUG pipe, ctsk-hd. 1/2"NPT
2	0643740-4	4	PIN, dowel, clutch compartment covers
3	0058019-1	2	CAP, track frame pivot shaft, outer
4	0073424-4	4	CAPSCREW, 1"N x 4"
	0910916-6	4	LOCKWASHER 1"
5	0664301-9	2	CAP, track frame pivot shaft, inner
6	0073424-4	4	CAPSCREW, 1"N x 4"
	0910916-6	4	LOCKWASHER, 1"
7	0664270-6	2	PIN, dowel, pivot shaft inner cap
8	0667168-9	2	GASKET, clutch compartment cover plate
9	0667165-5	2	PLATE, cover, clutch compartment
10	0927522-3	28	CAPSCREW, 1/2"N x 1-3/4"
	0912441-3	28	LOCKWASHER, 1/2"
11	0651421-0	1	GASKET, bevel gear compartment top cover
12	0651369-1	1	COVER, bevel gear compartment, top
13	0927522-3	4	CAPSCREW, 1/2"N x 1-3/4"
	0912441-3	4	LOCKWASHER, 1/2"
13A	0927233-7	8	CAPSCREW, 1/2"N x 2-3/4"
	0677008-5	8	WASHER, plain
13B	0097413-9	8	BLOCK, capscrew (Effective tractors unit #)
14	0052979-2	6	PLUG, thread protecting (1-1/4"N, socket-hd.)
15	0621486-0	2	GASKET, final drive compartment cover
16	0664852-1	4	CORK, thread protecting (1-1/4" diam.)
17	0664851-3	4	CORK, thread protecting (5/8" diam.)
18	0656983-4	1	COVER, final drive compartment, left side
	0656984-2	1	COVER, final drive compartment, right side
19	0922726-5	32	CAPSCREW, 1/2"N x 1-1/2"
	0912441-3	32	LOCKWASHER, 1/2"
20	0052976-8	1	GASKET, gear compartment cover
21	0052977-6	1	COVER, bevel gear compartment, rear
22	0927205-5	9	CAPSCREW, Nylok, 5/8"NC x 1-1/4"
	0912942-0	9	LOCKWASHER, 5/8"
23	0647567-7	1	GUARD, track sprocket, upper left
	0647568-5	1	GUARD, track sprocket, upper right
24	0031990-5	8	CAPSCREW, 5/8"NC x 2-1/2"
	0904209-4	8	LOCKWASHER, 5/8"
25	0035250-0	6	PLUG, filling and drain

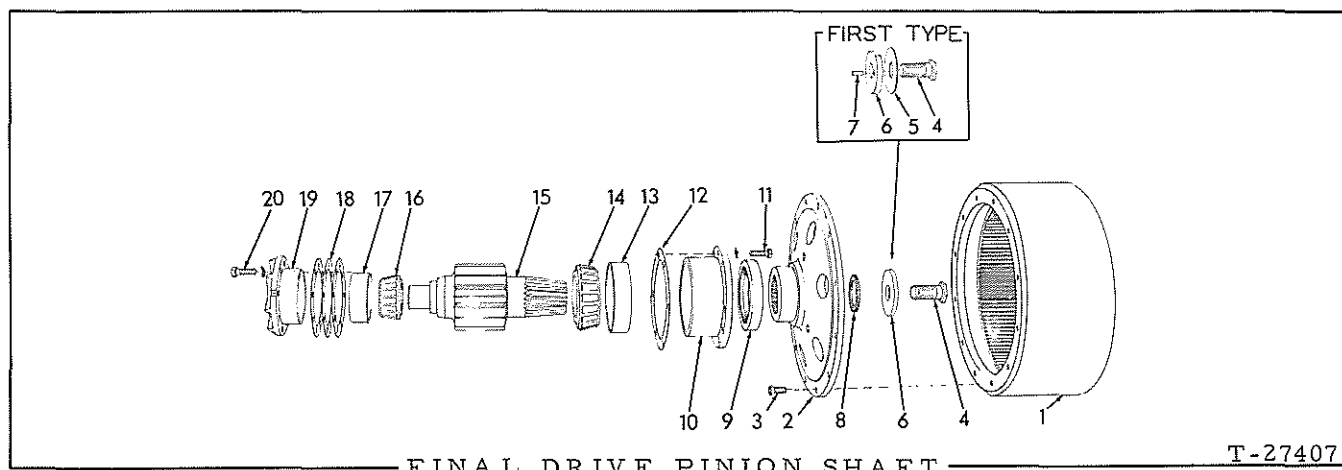
8 additional used prior to tractors unit #
Tractors unit # and up

Special equipment

(Continued)

MAIN HOUSING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
26	0667252-1	7	GASKET, filling and drain plugs
27	0067543-9	1	PLUG, drain, bevel gear compartment (magnetic)
28	0647565-1	1	GUARD, track sprocket, lower left
	0647566-9	1	GUARD, track sprocket, lower right
			} Special equipment
29	0023618-2	8	CAPSCREW, 5/8"NF x 2-1/2"
30	0072366-8	8	NUT, high, 5/8"NF
31	0667561-6	1	TUBE ASSY., final drive breather, left (Includes nut)
	0667562-4	1	TUBE ASSY., final drive breather, right (Includes nut)
	0919173-5	2	ELBOW, flare type, 1/4" tube, 1/8"NPT male
	0640677-1	4	CLIP, tube supporting
	0922300-9	4	CAPSCREW, 3/8"NC x 3/4"
	0910287-2	4	LOCKWASHER, 3/8"
	0911115-4	4	WASHER, plain, SAE std., 3/8"
32	-----	1	BREATHER ASSY., (Consists of items 33 thru 35) (Tractors prior to unit #18019. Order Breather Assy. 0679375-6)
	0679375-6	1	BREATHER ASSY. (Consists of items 36 thru 40) (Tractor unit #18019 and up)
	0919824-3	1	ELBOW, street, 90°, 3/4"NPT to 1/2"NPT
33	3002767-6	1	BASE, breather
34	3002769-2	1	ELEMENT, breather
35	3002768-4	1	CAP, breather
	0914172-2	1	SCREW, machine, #10NF x 1-1/4"
	0904203-7	1	LOCKWASHER, #10
36	-----	1	BASE, breather (Not serviced seperately)
37	0679115-6	1	ELEMENT, breather
38	0679118-0	1	COVER, breather
39	0678591-7	1	GASKET, wing nut
40	0918470-6	1	NUT, wing, 1/4"NC
41	0667412-1	1	GAUGE, oil level
42	0667625-8	1	TUBE, oil filler (Tractors prior to unit #17754 excluding #17737 and including #17759, 17760 and 17769)
	0678866-5	1	TUBE, oil filler (Tractor unit #17754 and up including #17737 and excluding #17759, 17760 and 17769)
43	0922726-5	2	CAPSCREW, 1/2"NF x 1-1/2"
	0912441-3	2	LOCKWASHER, 1/2"
44	0632368-7	1	GASKET, oil filler tube
45	0640109-5	1	BAFFLE, oil, front section
46	0927483-8	1	CAPSCREW, drilled-hd., 3/8"NC x 2"
47	0023633-1	1	WIRE, locking, 1/16" x 12"
48	0044973-6	1	WASHER, plain
49	0667670-4	1	BAFFLE, oil, rear section
50	0927483-8	2	CAPSCREW, drilled-hd., 3/8"NC x 2"
51	0023756-0	1	WIRE, locking, 1/16" x 26"
52	0044973-6	2	WASHER, plain



FINAL DRIVE PINION SHAFT

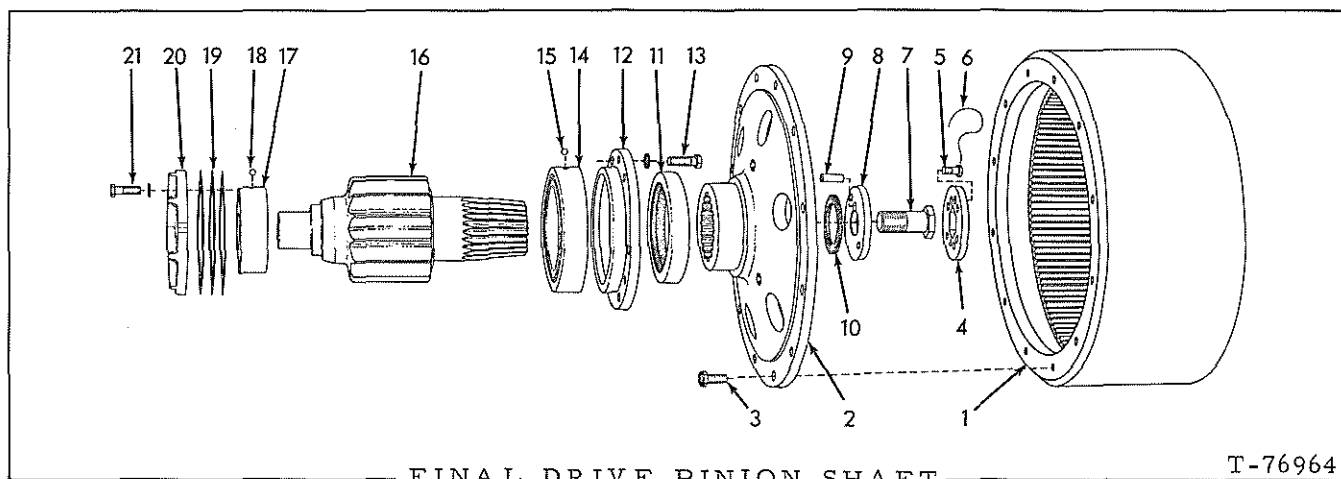
T-27407

USAGE: Tractors prior to serial No. 10S18516

ITEM	PART NO.	QTY.	DESCRIPTION
1	0093953-8	2	DRUM, brake
2	0623344-9	2	HUB, brake drum
3	0650811-3	24	BOLT, brake drum (5/8"NC x 1-1/2")
4	-----	2	CAPSCREW, hub retaining (Tractors prior to unit #17209. Order CAPSCREW 0673521-1 and item 6)
	0673521-1	2	CAPSCREW, hub retaining (Nylok)(Tractor unit #17209 and up)
5	0623347-2	2	WASHER, locking, hub retaining (Tractors prior to unit #17209)
6	-----	2	WASHER ASSY., hub retaining (Includes item 7)(Tractors prior to unit #17209. Order WASHER 0673522-9 and item 4)
	0673522-9	2	WASHER, hub retaining (Tractor unit #17209 and up)
7	0052066-8	2	PIN, hub retaining washer (Tractors prior to unit #17209)
8	0623346-4	2	SEAL, oil, pinion shaft (rubber)
9	0623350-6	2	SEAL, oil, brake drum hub
10	-----	2	*CAGE, inner bearing cup
11	0927522-3	12	CAPSCREW, 1/2"NF x 1-3/4"
	0912441-3	12	LOCKWASHER, 1/2"
12	0052420-7	2	GASKET, bearing cage
13	-----	2	*CUP, inner bearing
14	-----	2	*CONE ASSY., inner bearing
15	-----	2	*PINION (13 teeth)(Tractors prior to unit #18043 excluding #18041)
	0675028-5	2	PINION (13 teeth)(Tractor unit #18043 and up including #18041)
16	-----	2	*CONE ASSY., outer bearing
17	-----	2	*CUP, outer bearing
18	0084048-5	4	SHIM, bearing adjustment (.005" thick)
	0084049-6	4	SHIM, bearing adjustment (.007" thick)
	0084050-4	20	SHIM, bearing adjustment (.010" thick)
19	-----	2	*CAGE, outer bearing cup
20	0927522-3	8	CAPSCREW, 1/2"NF x 1-3/4"
	0912441-3	8	LOCKWASHER, 1/2"

Use as required

NOTE: For initial service on items indicated by asterisk (*) order FINAL DRIVE KIT 0684272-8 (See page 9A). Once the FINAL DRIVE KIT has been installed, the design on this page becomes void and service thereafter is governed by the design shown on page 153A.



USAGE: Tractors serial No. 10S18516 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	0093953-8	2	DRUM, brake
2	0623344-9	2	HUB, brake drum
3	0650811-3	24	BOLT, brake drum (5/8"NC x 1-1/2")
4	0681558-3	2	LOCK, hub retaining capscrew
5	0928506-5	4	CAPSCREW (3/8"NC x 5/8")
6	0023633-1	2	WIRE, locking, 1/16" x 12"
7	0681543-5	2	CAPSCREW, hub retaining
8	0681560-9	2	WASHER ASSY., hub retaining (Includes item 9)
9	0052066-8	2	PIN, hub retaining washer
10	0623346-4	2	SEAL, oil, pinion shaft (rubber)
11	0623350-6	2	SEAL, oil, brake drum hub
12	0684128-2	2	RETAINER, inner bearing
13	0927522-3	12	CAPSCREW, 1/2"NF x 1-3/4"
	0912441-3	12	LOCKWASHER, 1/2"
14	0684132-4	2	BEARING, inner
15	0905358-8	2	BALL, inner bearing (steel, 1/4" diam.)
16	0684126-6	2	PINION (13 teeth)
17	0684131-6	2	BEARING, outer
18	0905357-0	2	BALL, outer bearing (steel, 3/16" diam.)
19	0084050-4	20	SHIM, bearing adjustment (.010" thick. Use as required)
20	0684130-8	2	RETAINER, outer bearing
21	0927522-3	8	CAPSCREW, 1/2"NF x 1-3/4"
	0912441-3	8	LOCKWASHER, 1/2"

STEERING CLUTCHES

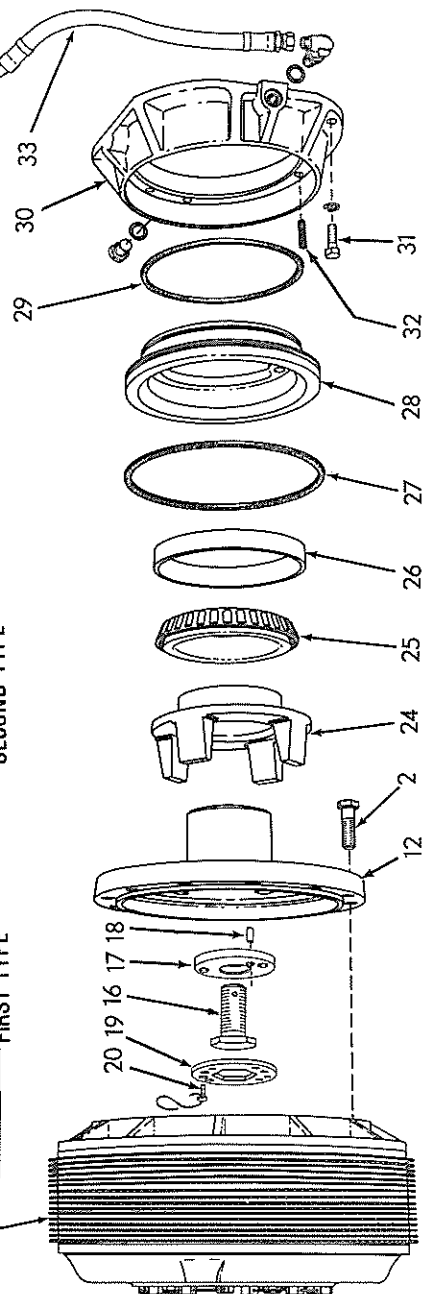
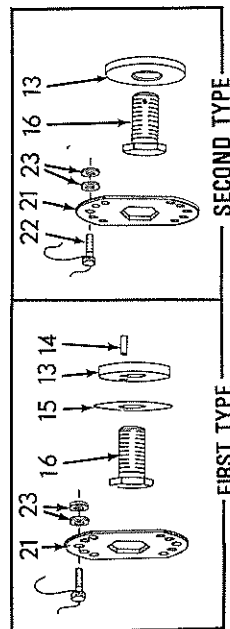
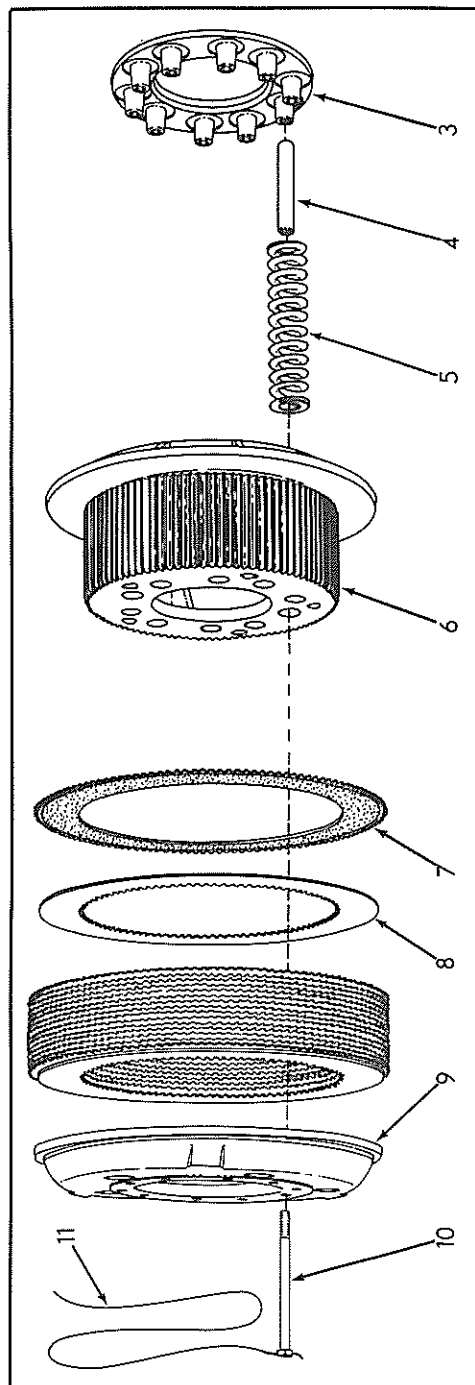
ITEM	PART NO.	QTY.	DESCRIPTION
1	0623010-6	2	CLUTCH ASSY. (Consists of items 3 thru 11)
2	0650812-1	24	BOLT, self-locking, 5/8"NC x 2"
3	0051836-5	2	PLATE, throwout
4	0052118-7	20	SPACER, throwout plate
5	0623016-3	20	SPRING, pressure
6	0650691-9	2	HUB, steering clutch
7	0623017-1	32	DISC, friction (bi-metallic)
8	0623018-9	34	DISC, friction (steel)(Use as required)
9	0054809-9	2	PLATE, pressure
10	0052119-5	20	CAPSCREW, throwout plate
11	0052519-6	4	WIRE, locking, 1/16" x 39"
12	0623013-0	2	HUB, driving
13	-----	2	WASHER ASSY., hub retaining (Includes item 14)(Tractor prior to unit #17209. Order WASHER 0673522-9 and item 16)
	0673522-9	2	WASHER, hub retaining (Tractors unit #17209 thru #18515)
14	0052066-8	2	PIN, hub retaining washer
15	0623347-2	2	WASHER, locking hub retaining bolt
16	-----	2	CAPSCREW, hub retaining (Tractors prior to unit #17209. Order CAPSCREW 0673521-1 and item 13)
	0673521-1	2	CAPSCREW, hub retaining (Tractor unit #17209 thru #18515)
	0681543-5	2	CAPSCREW, hub retaining (Tractors unit #18516 and up)
17	0681560-9	2	WASHER ASSY., hub retaining (Includes item 18)
18	0052066-8	2	PIN, hub retaining washer
19	0681558-3	2	LOCK, hub retaining capscREW
20	0928506-5	4	CAPSCREW, drilled-hd., 3/8"NC x 5/8"
	0023633-1	2	WIRE, locking, 1/16" x 12"
21	0684568-9	2	LOCK, hub retaining capscREW
22	0927597-5	4	CAPSCREW, drilled-hd., 3/8"NC x 1-1/2"
	0023633-1	2	WIRE, locking, 1/16" x 12"
23	0075679-1	8	KEY, lock spacing
24	0623014-8	2	SLEEVE, throwout
25	0623007-2	2	CONE ASSY., clutch throwout bearing

Tractors prior to unit #17209

Tractors unit #18516 and up

Not original equipment. For service only on units prior to #18516 which have been up-dated with installation of FINAL DRIVE KIT. (See page 9A)

(Continued)

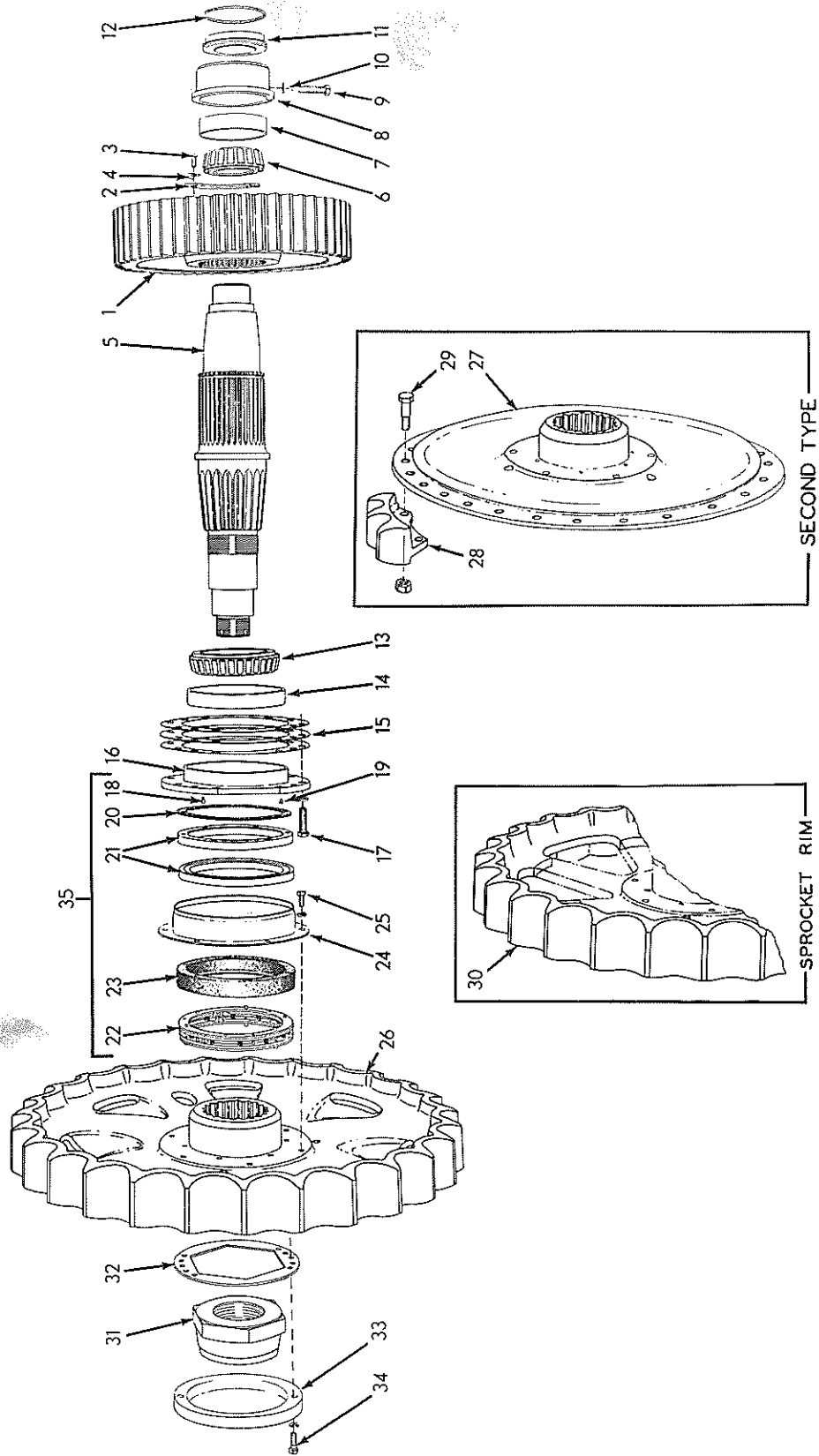


T-40590

STEERING CLUTCHES

STEERING CLUTCHES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
26	0623008-0	2	CUP, clutch throwout bearing
27	0623003-1	2	RING, sealing, actuating piston, outer
28	0623012-2	2	PISTON, actuating
29	0623004-9	2	RING, sealing, actuating piston, inner
30	0642448-5	2	RING, collector
	0921573-2	2	PLUG, hex-hd., 3/4" straight thread (Includes O-RING)
	0921349-7	2	O-RING, plug
31	0920574-1	6	CAPSCREW, 1/2"NC x 1-3/8"
	0912441-3	6	LOCKWASHER, 1/2"
32	0040475-6	6	SPRING, actuating piston
33	0645074-6	2	HOSE, oil pressure (See HOSE PARTS)
	0921402-4	2	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4" straight thread (Includes washer, nut and O-RING)
	0921349-7	2	O-RING, elbow
34	-----	2	UNION (See CONTROL VALVE AND LINES)



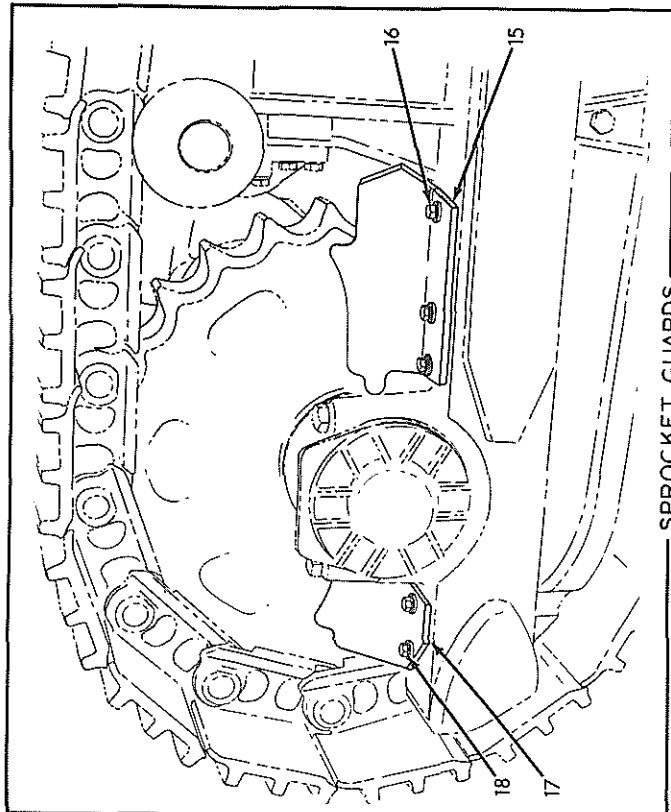
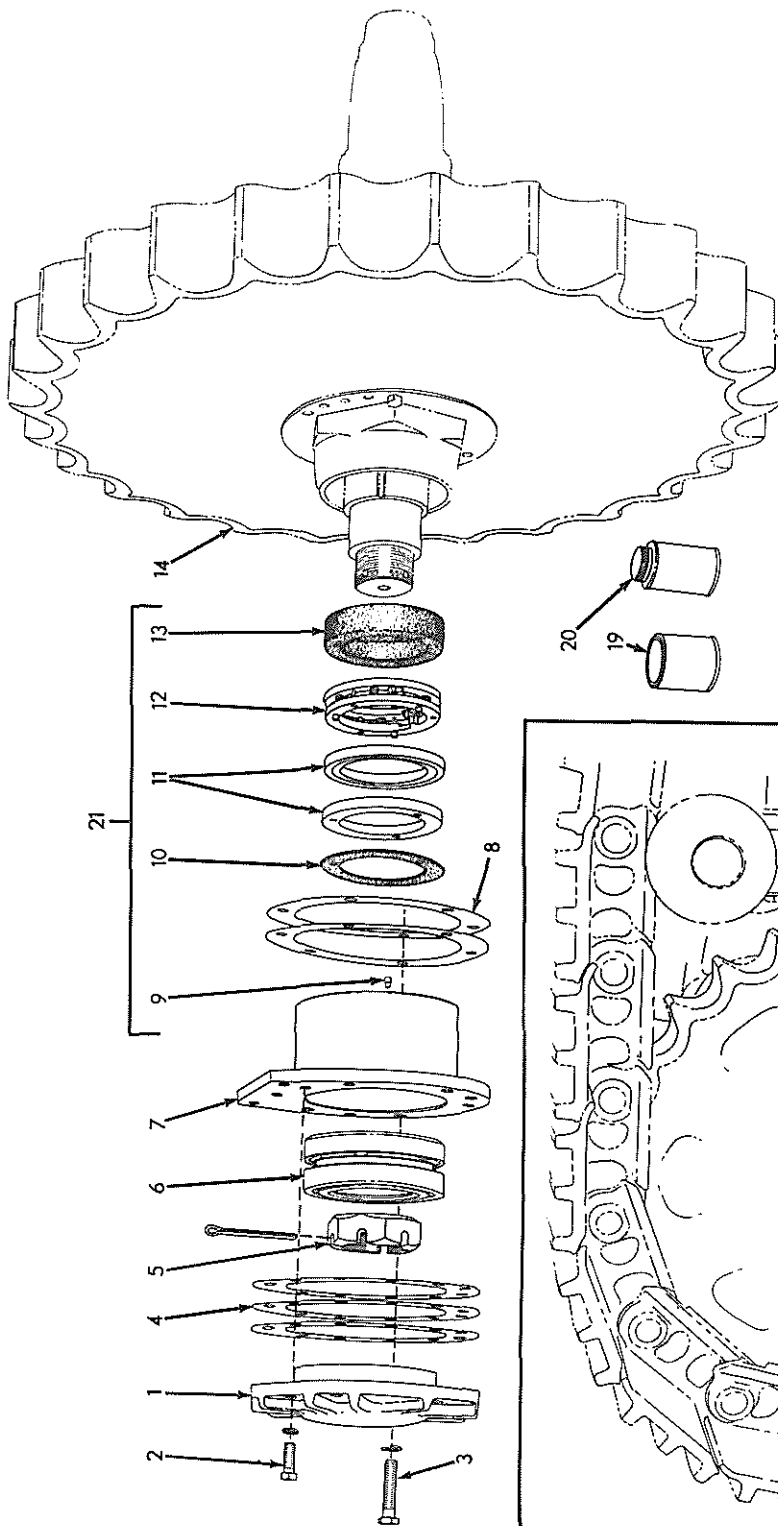
FINAL DRIVE SPROCKET, SHAFT AND GEAR

ITEM	PART NO.	QTY.	DESCRIPTION
1	0651501-9	2	GEAR, driving (43 teeth)
2	0052161-7	4	LOCK, gear retaining
3	0035439-9	8	CAPSCREW, 3/8"NC x 1"
4	0052444-7	8	LOCK, capscREW
5	0671082-6	2	SHAFT, sprocket
6	0051997-5	2	CONE ASSY., inner bearing
7	0042877-1	2	CUP, inner bearing
8	0067350-9	2	CAGE, inner bearing cup
9	0067348-3	2	SETSCREW, hex-hd., dog-pt., 5/8"NF x 3"
10	0049918-6	2	WASHER, plain (copper)
11	0091573-6	2	COVER, inner bearing
12	0923824-7	2	O-RING, inner bearing cover
13	0082307-0	2	CONE ASSY., intermediate bearing
14	0082308-8	2	CUP, intermediate bearing
15	{ 0067518-1 0067519-9 0067520-7	4 4 20	SHIM, bearing adjustment (.005" thick) SHIM, bearing adjustment (.007" thick) SHIM, bearing adjustment (.010" thick)
			} Use as required
16	0082310-4	2	CAGE ASSY., intermediate bearing (Includes items 18 and 19)
17	0035229-4	16	CAPSCREW, 5/8"NF x 2"
	0904209-4	16	LOCKWASHER, 5/8"
18	0084432-4	6	□ PIN, locating, seal ring (9/16" long)
19	0080547-3	6	□ PIN, locating, seal ring gasket (13/32" long)
20	0082320-3	2	□ GASKET, seal ring
21	0082322-9	4	□ RING, inner seal
22	0669770-0	2	□ FOLLOWER ASSY., inner seal (Serviced only as a unit)
23	0082323-7	2	□ BOOT, inner seal
24	0082321-1	2	GUARD, seal
25	0035221-1	12	CAPSCREW, 1/2"NC x 1"
	0904208-6	12	LOCKWASHER, 1/2"
26	0662274-0	2	SPROCKET, track driving (Standard, has flat tooth-base) (Tractors prior to unit #17005)
27	{ 0668719-8 0679534-8	2 2	HUB, sprocket segment (Tractors unit #17005 thru #18062) HUB, sprocket segment (Tractors unit #18063 and up)
28	{ 0668717-2 0679509-0	18 18	SEGMENT, sprocket (Tractors unit #17005 thru #18062) SEGMENT, sprocket (Tractors unit #18063 and up)
29	{ 0097056-6 0070400-7 0679508-3 0679507-5	54 54 54 54	BOLT, sprocket segment NUT, high, 7/8"NF BOLT, sprocket segment NUT, 7/8"NF
			} Tractors unit #17005 thru #18062
			} Tractors unit #18063 and up
30	0662275-7	2	SPROCKET RIM (Flat tooth-base. Requires welding to install)
31	0082318-7	2	NUT, sprocket retaining
32	0082315-3	2	LOCK, sprocket retaining nut
33	0630056-0	2	RING, nut protecting
34	0035190-8	4	CAPSCREW, 1/2"NC x 1-1/2"
	0904208-6	4	LOCKWASHER, 1/2"
35	0091978-7	2	SEAL KIT, final drive (Includes parts for one (1) side only; items 18 thru 23)

☐ Components of item 35

Replaces page 157 in HD-21 Series B parts catalog 0664645-9
Printed in U. S. A.

(Revised October 1971)



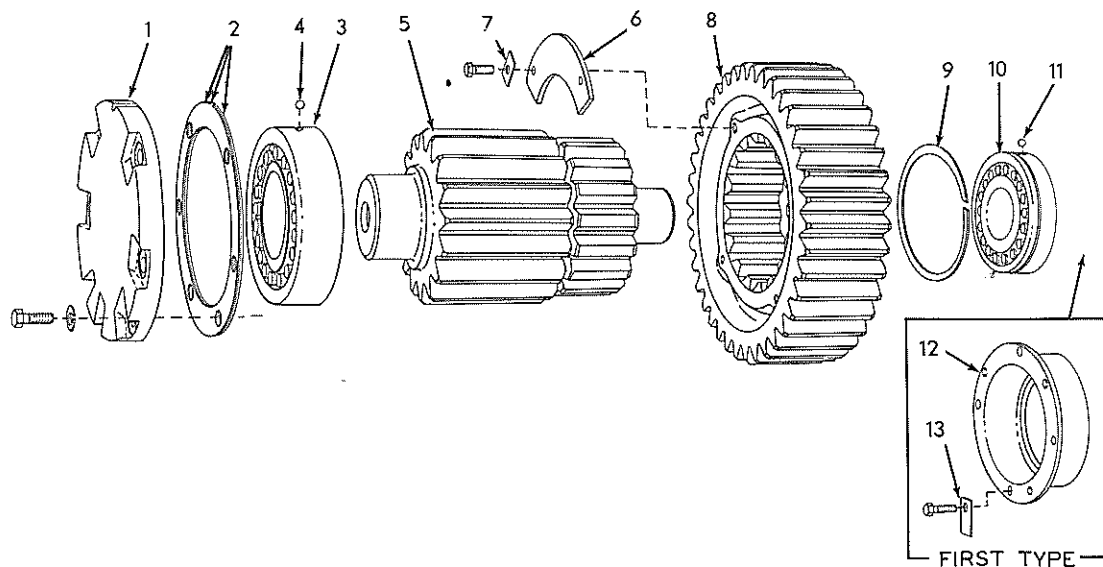
SPROCKET GUARDS

FINAL DRIVE OUTBOARD BEARING AND SEAL

FINAL DRIVE OUTBOARD BEARING AND SEAL

ITEM	PART NO.	QTY.	DESCRIPTION	
1	0082316-1	2	CAP, outboard bearing	
2	0927574-4	6	CAPSCREW, 1/2"NF x 1-3/8"	
	0912441-3	6	LOCKWASHER, 1/2"	
3	0013467-6	12	CAPSCREW, 5/8"NF x 3" (Tractors prior to #16209)	
	0921597-5	12	CAPSCREW, 5/8"NC x 3" (Tractors #16209 and up)	
	0912942-0	12	LOCKWASHER, 5/8"	
4	0082358-3	4	SHIM, outboard bearing cap (.005" thick)	} Use as required
	0082357-5	4	SHIM, outboard bearing cap (.007" thick)	
	0082356-7	8	SHIM, outboard bearing cap (.010" thick)	
5	0082311-2	2	NUT, retaining, outboard bearing	
	0904016-3	2	PIN, cotter, 3/8" x 4"	
6	0683970-8	2	BEARING, roller, outboard (Each consists of 1 roller assy. and 2 cups. Serviced only as a unit)	
7	0082327-8	2	CAGE, outboard bearing	
8	0069761-5	12	SHIM, outboard bearing cage (.015" thick. Use as required)	
9	0084432-4	6	☐ PIN, locating, seal ring	
10	0082309-4	2	☐ GASKET, seal ring	
11	0082303-7	4	☐ RING, seal	
12	0082317-7	2	☐ FOLLOWER ASSY., seal (Serviced only as a unit)	
13	0082312-8	2	☐ BOOT, seal	
14	-----	-	SPROCKET (See SPROCKET, SHAFT AND GEAR)	
15	0622411-7	1	PLATE, front closure, left side	} Tractors prior to unit #17005
	0622412-5	1	PLATE, front closure, right side	
	0672263-1	1	PLATE, front closure, left side	} Tractor units #17005 and up
	0672264-9	1	PLATE, front closure, right side	
16	0921403-2	6	CAPSCREW, 5/8"NC x 2"	
	0677010-1	6	WASHER, plain	
17	0622413-3	1	PLATE, rear closure, left side	} Tractors prior to unit #17005
	0622414-1	1	PLATE, rear closure, right side	
	0672265-6	1	PLATE, rear closure, left side	} Tractor units #17005 and up
	0672266-4	1	PLATE, rear closure, right side	
18	0921403-2	4	CAPSCREW, 5/8"NC x 2"	
	0677010-1	4	WASHER, plain	
19	0033288-2	-	CEMENT, neoprene, 1/2 pt. can	} For cementing boots and gaskets
20	0054890-9	-	SOLVENT, neoprene cement, 1/2 pt. can	
21	0091979-5	2	SEAL KIT, final drive (Includes parts for one (1) side only; items 9 thru 13)	

☐ Components of item 21



FINAL DRIVE INTERMEDIATE GEARS

T-75110

*Tractors prior to Serial No. 10S18516

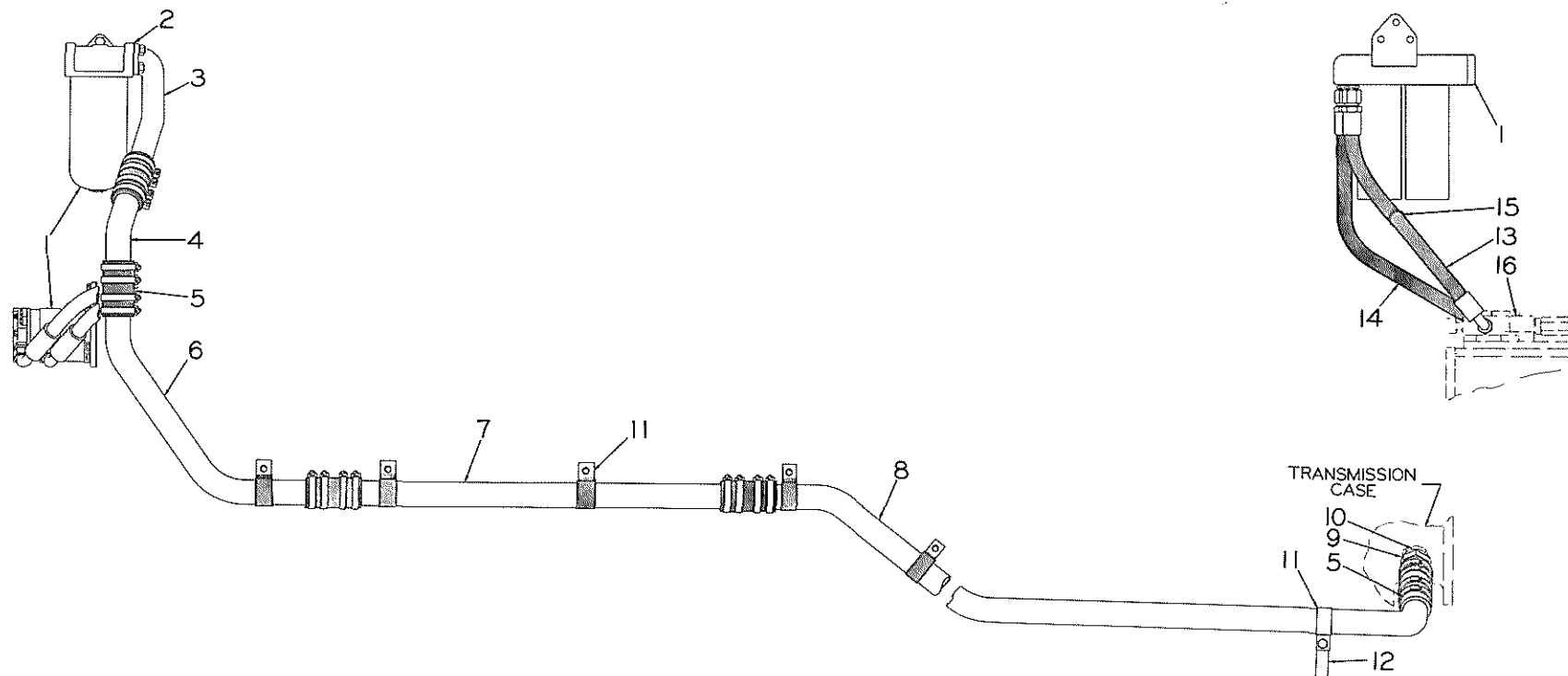
** Tractors Serial No. 10S18516 and up

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	-----	2 -	RETAINER, pinion outer bearing (See NOTE)
	0684140-7	- 2	RETAINER, pinion outer bearing
	0927529-8	12 12	CAPSCREW, 5/8"NF x 1-3/4"
	0912942-0	12 12	LOCKWASHER, 5/8"
2	0666872-7	2 -	GASKET, bearing retainer
	0684139-9	- 20	SHIM, bearing retainer
3	0684138-1	2 -	BEARING, roller, pinion (outer)(See NOTE)
	0684138-1	- 2	BEARING, roller, pinion (outer)
4	0905360-4	2 2	BALL, outer bearing (steel, 3/8" diam.)
5	-----	2 -	PINION (13 teeth)(See NOTE)
	0684136-5	- 2	PINION (13 teeth)
6	0052372-0	4 4	LOCK, gear
	0923276-0	8 8	CAPSCREW, 3/8"NF x 1"
7	0052444-7	8 8	LOCK, capscrew
8	0651498-8	2 -	GEAR (34 teeth)(Tractors prior to unit #18096)
	0680947-9	2 2	GEAR (34 teeth)(Tractors unit #18096 and up)
9	0684176-1	- 2	RING, inner bearing
10	-----	2 -	BEARING, roller, pinion (inner, 5-1/2" O.D.)(See NOTE)
	0684137-3	- 2	BEARING, roller, pinion (inner, 6" O.D.)
11	0905358-8	- 2	BALL, inner bearing (steel, 1/4" diam.)
12	-----	2 -	CAGE, pinion inner bearing (See NOTE)
	0923276-0	8 -	CAPSCREW, 3/8"NF x 1"
13	0068999-2	8 -	LOCK, capscrew

NOTE: For initial replacement order FINAL DRIVE KIT 0684272-8 (See page 9A)Rework of Main Housing is also required per Sketch S-5787. Thereafter service individual parts as listed in second column.

MEMO

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

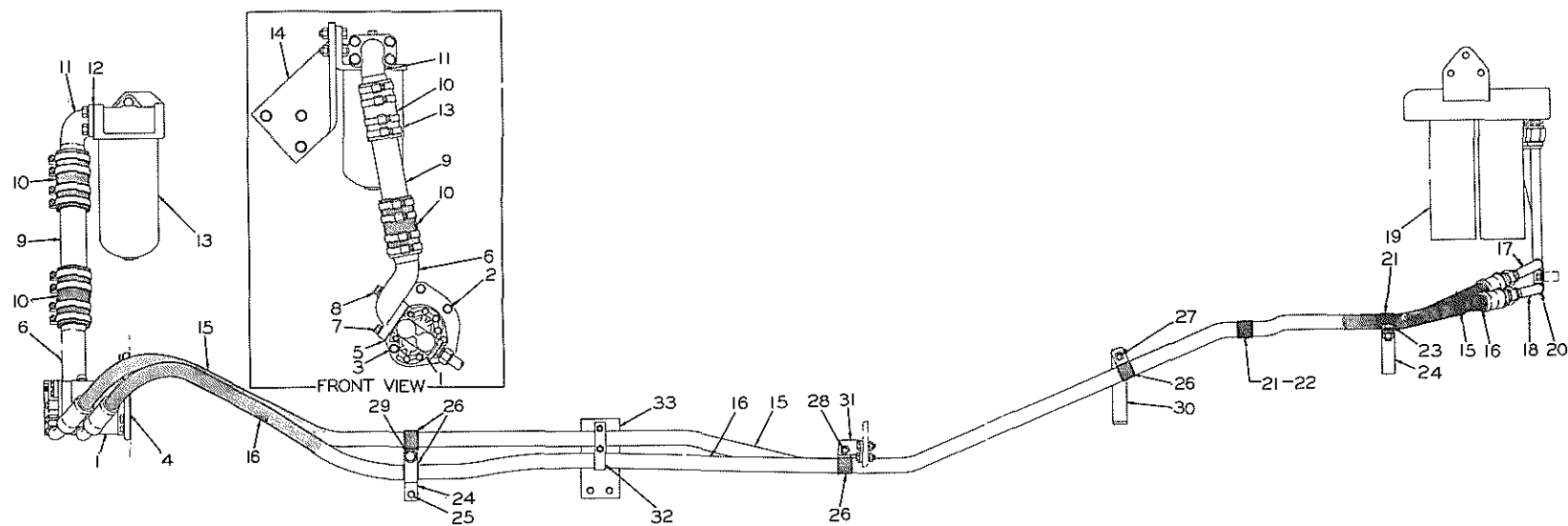


STEERING CONTROL HYDRAULICS

T-75091

STEERING CONTROL HYDRAULICS

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	-	STEERING PUMP AND FILTERS (See page 165 for details)
2	652011	1	GASKET, suction line elbow
3	667148	1	ELBOW, suction line
	916311	4	CAPSCREW, 1/2"NC x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
4	667187	1	TUBE, suction line, front upper section
5	623234	5	HOSE, suction line
	921913	20	CLAMP, hose, 1-13/16" to 2-3/4" diam.
6	641763	1	TUBE, suction line, front section
7	623094	1	TUBE, suction line, intermediate front section
8	653965	1	TUBE, suction line, rear section
9	641963	1	ADAPTER, suction line
10	921887	1	O-RING, suction line adapter
11	623235	6	CLIP, tube supporting
	916309	1	CAPSCREW, 1/2"NC x 3/4"
	916310	5	CAPSCREW, 1/2"NC x 1"
	904208	6	LOCKWASHER, 1/2"
	910325	1	NUT, 1/2"NC
12	653989	1	ANGLE, tube supporting
13	667245	1	HOSE, filter to valve, left (See HOSE PARTS)
	919342	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
	922935	1	CONNECTOR, flare type, 3/4" tube, 3/4"NF male end (Includes O-RING 921349)
14	652911	1	HOSE, filter to valve, right (See HOSE PARTS)
	919342	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
	922965	1	ELBOW, adjustable, 90°, flare type, 3/4" tube, 3/4"NF male end (Includes O-RING 921349)
15	644612	1	CLIP, hose supporting
	911115	1	WASHER, plain, SAE std., 3/8"
16	-----	-	VALVE, control (See CONTROL VALVE AND LINES)



-STEERING PUMP AND FILTERS

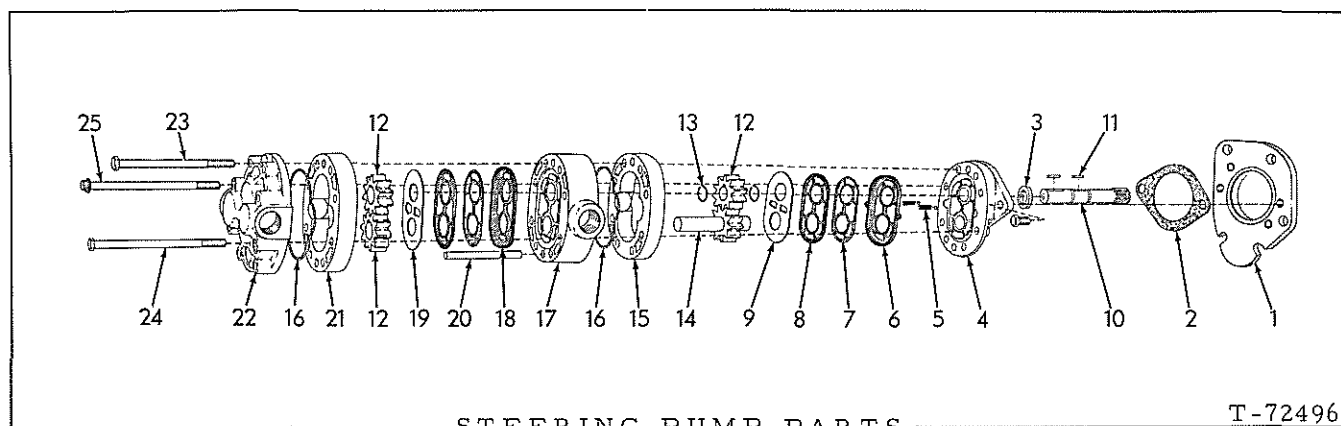
STEERING PUMP AND FILTERS

ITEM	PART NO.	QTY.	DESCRIPTION
1	655782	1	PUMP ASSEMBLY (See page 167 for parts)(First type)
	676787	1	PUMP ASSEMBLY (See page 167 for parts)(Second type)
2	919227	3	CAPSCREW, 3/8"NC x 3-1/4"
	904206	3	LOCKWASHER, 3/8"
3	916197	2	CAPSCREW, 7/16"NC x 1-1/4"
	904207	2	LOCKWASHER, 7/16"
4	4371742	1	GASKET, pump mounting
5	655999	1	GASKET, inlet elbow
6	667180	1	ELBOW, pump inlet
7	916272	1	CAPSCREW, 3/8"NC x 1-1/4"
8	919227	1	CAPSCREW, 3/8"NC x 3-1/4"
	904206	2	LOCKWASHER, 3/8"
9	667186	1	TUBE, pump inlet
10	623234	2	HOSE, suction line
	921913	8	CLAMP, hose, 1-13/16" to 2-3/4" diam.
11	667162	1	ELBOW, pump inlet
	916311	4	CAPSCREW, 1/2"NC x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
12	652011	1	GASKET, inlet elbow
13	651113	1	FILTER ASSEMBLY, suction line (See page 169 for parts)
	916313	3	CAPSCREW, 1/2"NC x 1-3/4"
	904208	3	LOCKWASHER, 1/2"
	911028	3	NUT, 1/2"NC
14	667232	1	BRACKET, filter mounting
	916313	3	CAPSCREW, 1/2"NC x 1-3/4"
	904208	3	LOCKWASHER, 1/2"
15	644607	1	HOSE, pump to rear filter (See HOSE PARTS)
	922981	1	CONNECTOR, flare type, 3/4" tube, 1-1/16" straight male thread (Includes O-RING 921206)
16	645239	1	HOSE, pump to front filter (See HOSE PARTS)
	922981	1	CONNECTOR, flare type, 3/4" tube, 1-1/16" straight male thread (Includes O-RING 921206)
17	667243	1	TUBE ASSEMBLY, pump to rear filter (Includes nut)
	919342	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
18	667242	1	TUBE ASSEMBLY, pump to front filter (Includes nuts)
	919342	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
19	633797	1	FILTER ASSEMBLY, pressure line (See page 168 for parts)
	915987	3	CAPSCREW, 1/2"NC x 1-1/2"
	904208	3	LOCKWASHER, 1/2"
20	094467	2	CLIP, tube supporting
	916268	1	CAPSCREW, 3/8"NC x 5/8"
	904206	1	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"

(Continued)

STEERING PUMP AND FILTERS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
21	665684	2	CLIP, hose supporting (For two 1-3/16" diam. hoses)
22	915408	1	CAPSCREW, 3/8"NC x 3/4"
	904206	1	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"
23	916310	1	CAPSCREW, 1/2"NC x 1"
	904208	1	LOCKWASHER, 1/2"
	910244	1	WASHER, plain, SAE std., 1/2"
	911028	1	NUT, 1/2"NC
24	660748	2	ANGLE, hose supporting
25	916309	1	CAPSCREW, 1/2"NC x 3/4"
	904208	1	LOCKWASHER, 1/2"
26	644612	6	CLIP, hose supporting (1-3/16" diam., 17/32" bolt-hole)
27	915408	1	CAPSCREW, 3/8"NC x 3/4"
28	916271	1	CAPSCREW, 3/8"NC x 1"
	904206	2	LOCKWASHER, 3/8"
	911115	2	WASHER, plain, SAE std., 3/8"
	911026	2	NUT, 3/8"NC
29	916311	1	CAPSCREW, 1/2"NC x 1-1/4"
	904208	1	LOCKWASHER, 1/2"
	910244	1	WASHER, plain, SAE std., 1/2"
	911028	1	NUT, 1/2"NC
30	654106	1	ANGLE, hose supporting
31	631115	1	BRACKET, hose supporting (Tractors prior to unit #17227)
	673517	1	BRACKET, hose supporting (Tractors unit #17227 and up)
	916272	2	CAPSCREW, 3/8"NC x 1-1/4"
	904206	2	LOCKWASHER, 3/8"
	911026	2	NUT, 3/8"NC (Tractors prior to unit #17227)
32	644611	2	CLAMP, hose supporting (Half only. Plain holes. For crim-type hose)
	915990	2	CAPSCREW, 3/8"NC x 2-3/4"
	904206	2	LOCKWASHER, 3/8"
	044973	2	WASHER, plain
	911026	2	NUT, 3/8"NC
33	644614	1	PLATE, hose supporting clamps
	916311	2	CAPSCREW, 1/2"NC x 1-1/4"
	904208	2	LOCKWASHER, 1/2"



STEERING PUMP PARTS

T-72496

USAGE: See page 165

* First type
** Second type

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
-	0655782-1	1 -	PUMP ASSY. (Includes items 1 thru 25)
-	0676787-5	- 1	PUMP ASSY. (Includes items 3 thru 25)
1	0653932-4	1 1	PLATE, adapting
	0922063-3	2 2	CAPSCREW, 12 pt. 7/16"NC x 1"
	0914678-8	2 2	LOCKWASHER, 7/16"
2	0656179-9	1 1	GASKET, front plate
3	0650677-8	1 1	SEAL, oil
4	1126490-0	1 1	PLATE ASSY., front (Includes bushings)
5	0650679-4	2 2	SPRING, check valve
	0915903-9	2 2	BALL, steel, 7/32" diam.
6	0650673-7	1 1	SEAL, front diaphragm
7	0650676-0	2 2	GASKET, diaphragm (thin)
8	0650675-2	2 2	GASKET, diaphragm (thick)
9	0650674-5	1 1	DIAPHRAGM, sealing, front
10	0653933-2	1 1	SHAFT, drive
11	0650672-9	2 2	KEY, pump gear
12 {	0650189-4	3 -	GEAR, pump
	0669351-9	- 3	GEAR, pump
13	0653936-5	2 2	RING, snap, pump gear
14 {	0653931-6	1 -	GEAR ASSY., idler (Includes shaft)
	0669352-7	- 1	GEAR ASSY., idler (Includes shaft)

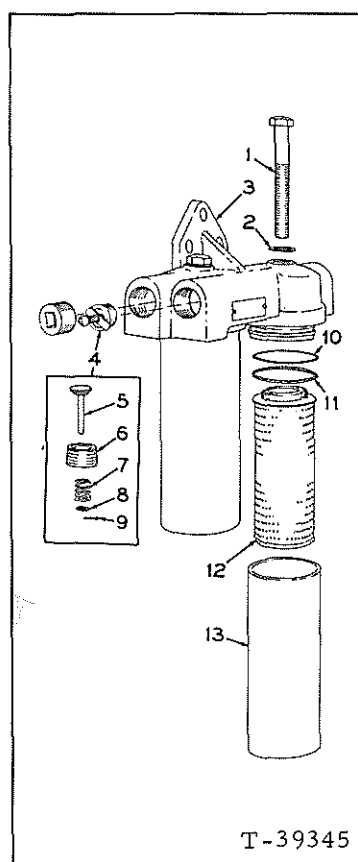
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STEERING PUMP PARTS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
		* *	
15	0669345-1	1 1	BODY, front
16	0926216-3	- 2	O-RING
17	{ 0653934-0	1 -	BODY, center (Includes bushings)
	{ 0669350-1	- 1	BODY, center (Includes bushings)
18	0650678-6	1 1	SEAL, rear diaphragm
19	0827650-3	1 1	DIAPHRAGM, sealing, rear
20	0653937-3	2 2	PIN, dowel
21	0681695-3	1 1	BODY, rear
22	{ 0653930-8	1 -	PLATE, rear
	{ 0669348-5	- 1	PLATE, rear
23	0919223-8	4 4	CAPSCREW, 5/16"NC x 4-1/2"
24	0924226-4	2 2	CAPSCREW, 5/16"NC x 5"
25	0924227-2	2 2	SCREW, 12 pt.-hd., 5/16"NC x 5"

FILTER ASSEMBLY 0633797-6

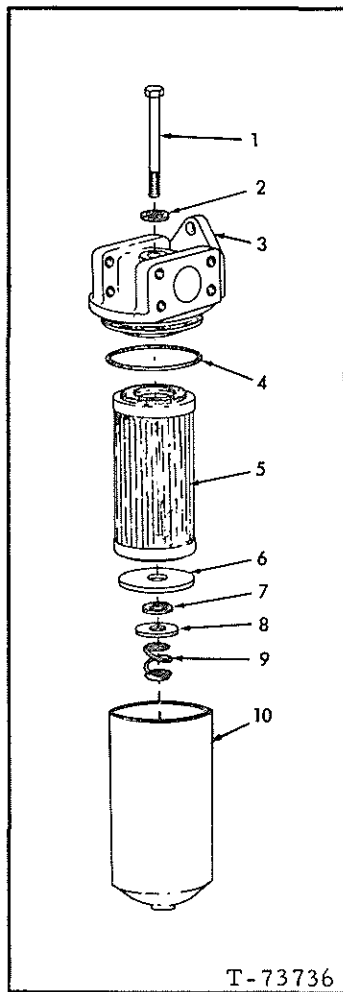
USAGE: See page 165



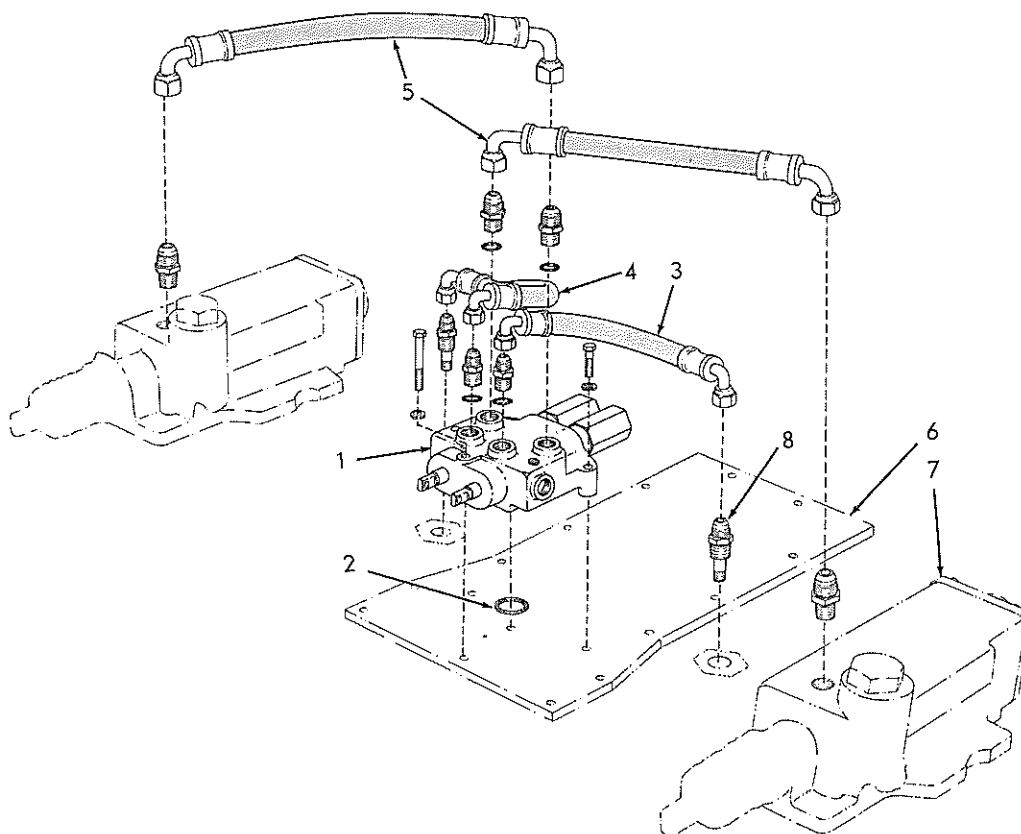
ITEM	PART NO.	QTY.	DESCRIPTION
1	0638796-3	2	CAPSCREW, tank retaining (5/8"NF x 5")
2	0631869-5	2	WASHER, tank retaining capscREW
3	0633310-8	1	HEAD
	0901666-8	2	PLUG, pipe, ctsk.-hd., 1"NPT
4	0633995-6	2	VALVE ASSY., by-pass (Consists of items 5 thru 9)
5	-----	2	VALVE, by-pass (Order item 4)
6	-----	2	HOUSING, by-pass valve (Order item 4)
7	{ 0631870-3	2	SPRING, valve (1-1/4" long)(Early units)
	{ 0661268-3	2	SPRING, valve (1-7/16" long)(Late units)
8	0632060-0	2	WASHER, by-pass valve spring
9	{ 0632061-8	2	RING, snap, by-pass valve (Early units)
	{ 0900970-5	2	PIN, cotter, 1/16" x 1/2" (Late units)
10	0632062-6	2	RING, back-up, filter head o-ring
11	0632063-4	2	O-RING, filter head
12	0631828-1	2	ELEMENT KIT (Includes items 2, 10 and 11)
13	0631872-9	2	TANK

FILTER ASSEMBLY 651113

USAGE: See page 165



ITEM	PART NO.	QTY.	DESCRIPTION
1	918553	1	CAPSCREW, 7/16" x 4-1/2"
2	651533	1	WASHER, head capcrew
3	651529	1	HEAD
4	923834	1	O-RING, tank sealing
5	651532	1	ELEMENT
6	656574	1	PLATE, bottom (large)
7	641029	1	WASHER, sealing
8	656573	1	WASHER, bottom (small)
9	656572	1	SPRING, element retaining
10	651531	1	TANK



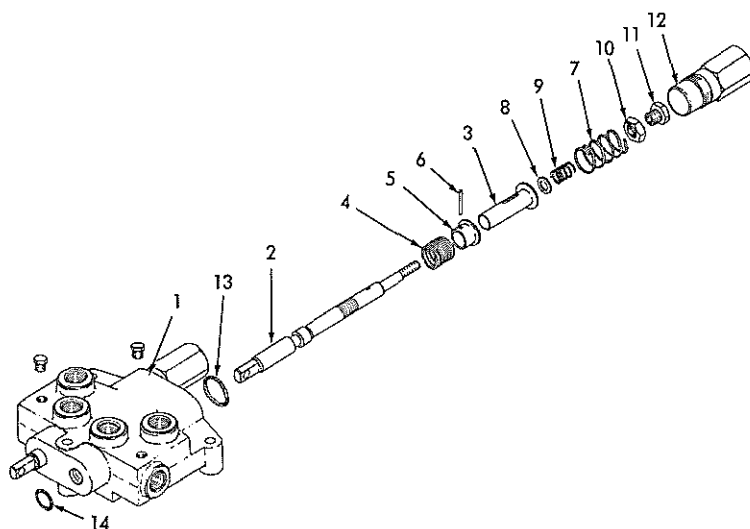
STEERING CONTROL VALVE AND LINES

T-30894

ITEM	PART NO.	QTY.	DESCRIPTION
1	0651432-7	1	VALVE ASSY., control ("Cessna". See page 171 for parts) (Tractors prior to unit #17610)
	0677645-4	1	VALVE ASSY., control ("Cessna". See page 170A for parts) (Tractors unit #17610 and up)
	0920611-1	1	CAPSCREW, 3/8"NF x 3-1/2"
	0915480-8	2	CAPSCREW, 3/8"NF x 1-3/4"
	0904206-0	3	LOCKWASHER, 3/8"
2	0923947-6	1	O-RING, valve to compartment cover
3	0644604-1	1	HOSE, clutch control, left (See HOSE PARTS)
	0921409-9	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING)
	0921349-7	1	O-RING, connector
4	0644603-3	1	HOSE, clutch control, right (See HOSE PARTS)
	0921409-9	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING)
	0921349-7	1	O-RING, connector
5	0644608-2	2	HOSE, brake control (See HOSE PARTS)
	0919615-5	2	CONNECTOR, flare type, 3/4" tube 1/2"NPT male
	0922935-2	2	CONNECTOR, flare type, 3/4" tube, 3/4"NF male end (Includes O-RING)
	0921349-7	1	O-RING, connector
6	-----	-	COVER, bevel gear compartment (See MAIN HOUSING)
7	-----	-	VALVE ASSY. (See BRAKES)
8	0669565-4	2	Union, bulkhead

Replaces page 170 in HD21 Series B Parts Catalog 0664645-9
Printed in U.S.A.

(Revised February 1972)

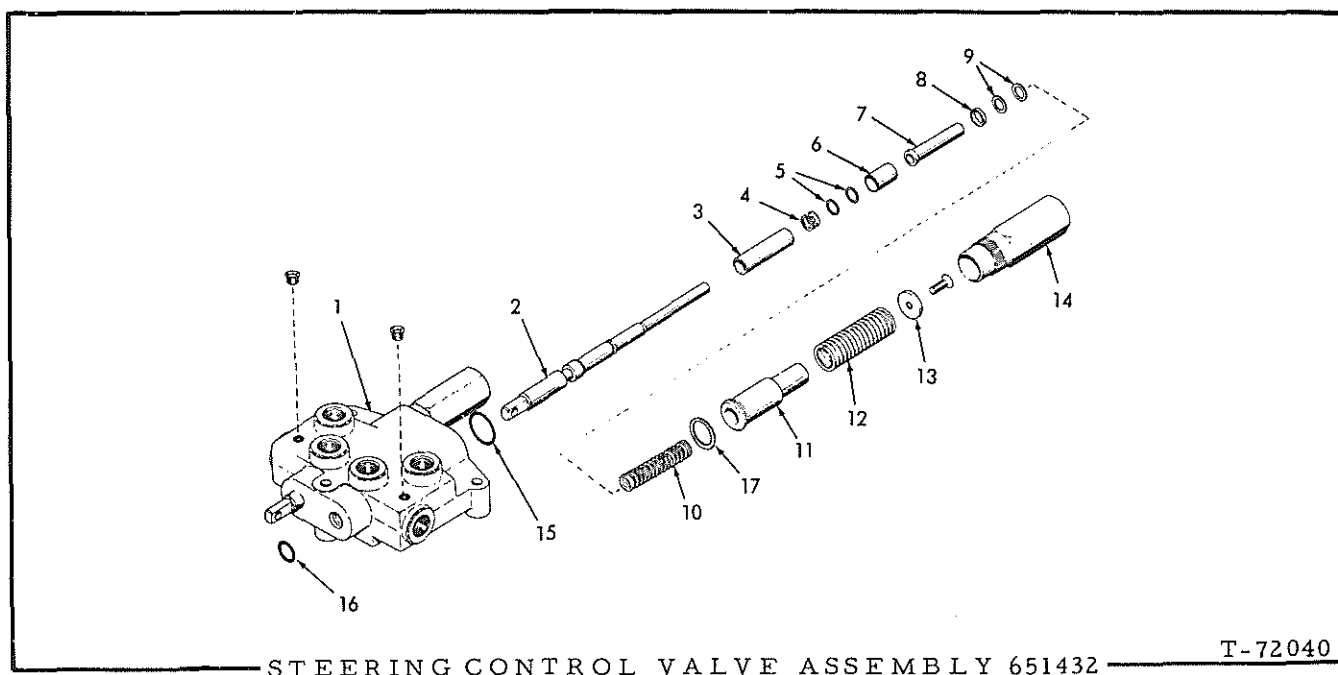


STEERING CONTROL VALVE ASSEMBLY 0677645-4

T-75919

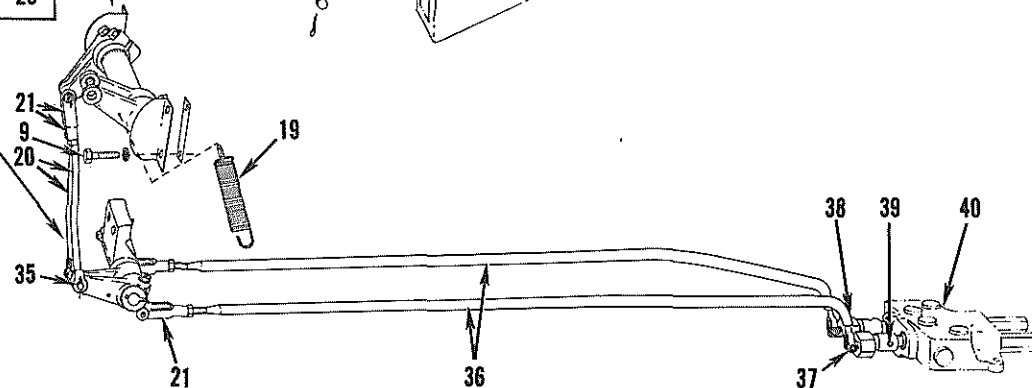
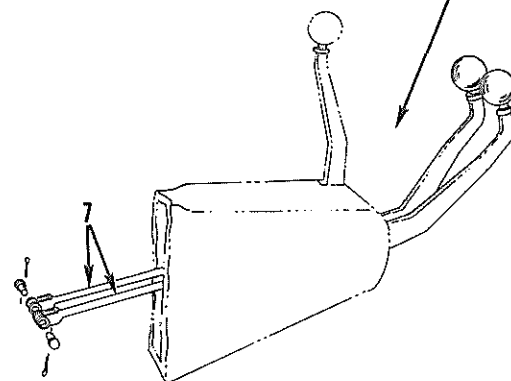
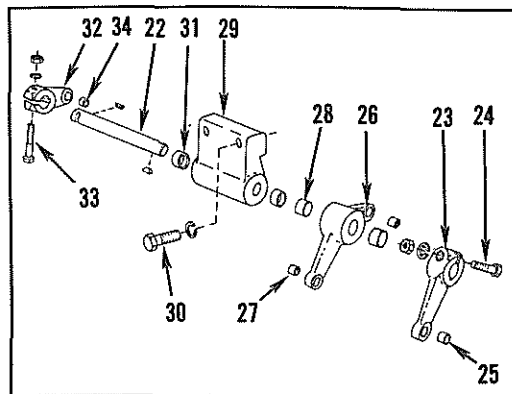
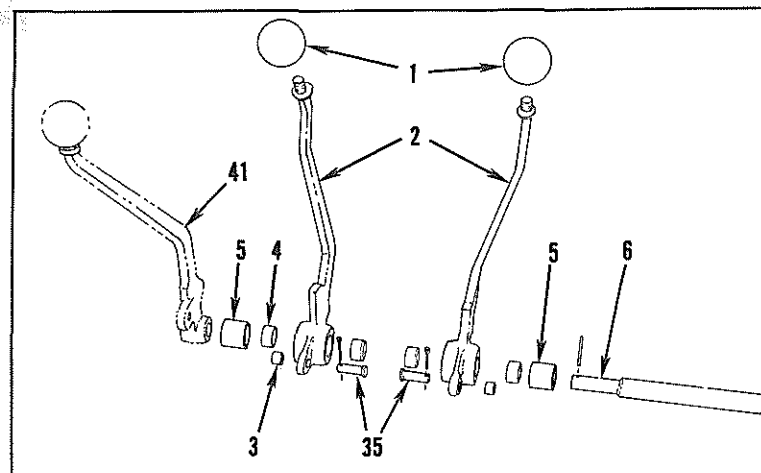
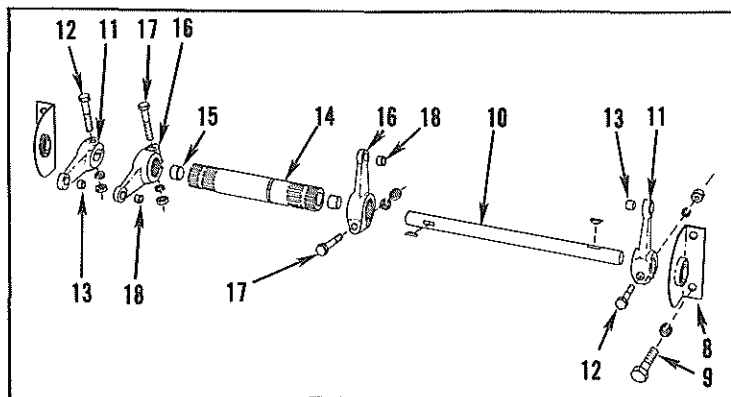
USAGE: See page 170

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	BODY (Not serviced separately)
	0919134-5	2	PLUG, pipe, hex-hd., 1/8"NPT
2	-----	2	PLUNGER (Not serviced separately)
3	0677636-3	2	SLEEVE
4	0677643-9	2	SPRING
5	0677637-1	2	BUSHING
6	0677640-5	2	PIN
7	0677644-7	2	SPRING
8	0677641-3	2	WASHER
9	0677642-1	2	SPRING
10	0677639-7	2	NUT
11	0677638-9	2	RETAINER
12	0677634-8	2	CAP
13	0924416-1	2	O-RING (large)
14	0923645-6	2	O-RING (small)



USAGE: See page 170

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	BODY (Not serviced separately)
	919134	2	PLUG, pipe, hex-hd., 1/8"NPT
2	-----	2	PLUNGER (Not serviced separately)
3	651564	2	PISTON, pressure regulating
4	651569	2	SPRING, pressure regulating (short)
5	{ 651576	-	SHIM, pressure adjustment (.015" thick)
	{ 651577	-	SHIM, pressure adjustment (.005" thick)
6	651571	2	SLEEVE, valve plunger (outer)
7	651572	2	SLEEVE, valve plunger (inner)
8	651573	2	WASHER, valve plunger
9	{ 651574	-	SHIM, pressure adjustment (.015" thick)
	{ 651575	-	SHIM, pressure adjustment (.005" thick)
10	661676	2	SPRING, pressure regulating (long)
11	651565	2	SLEEVE, plunger return spring
12	651570	2	SPRING, plunger return
13	651567	2	WASHER, end, valve plunger
	924989	2	SCREW, machine, flat-hd., 1/4"NF x 7/8"
14	651566	2	CAP, valve plunger
15	924416	2	O-RING, valve body (large)
16	923645	2	O-RING, valve body (small)
17	663123	2	SHIM, plunger clearance (Use as required)



STEERING LEVERS AND LINKAGE

T-75093

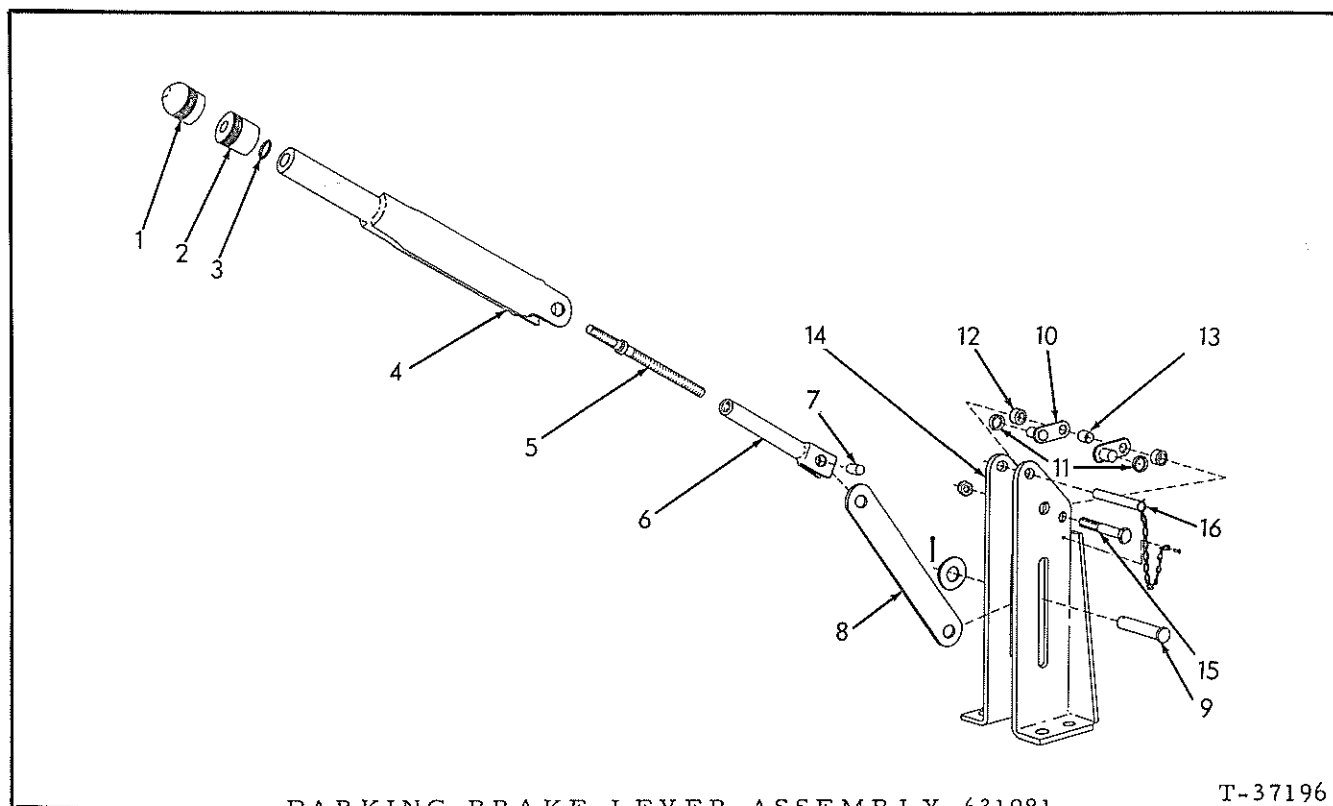
STEERING LEVERS AND LINKAGE

ITEM	PART NO.	QTY.	DESCRIPTION
1	090020	2	KNOB, steering lever
2	630847	1	LEVER ASSEMBLY, steering, left (Includes items 3 and 4)
	630848	1	LEVER ASSEMBLY, steering, right (Includes items 3 and 4)
3	624584	2	BUSHING, steering lever (small)
4	630795	4	BUSHING, steering lever (large)
5	075053	2	SPACER, steering levers
6	666261	1	SHAFT, steering levers
	915797	1	PIN, spring, 3/16" x 1-1/4"
7	666259	2	ROD, control, upper
8	654656	2	BEARING ASSEMBLY, upper cross shaft (Includes bushing)
9	916381	4	CAPSCREW, 3/8"NF x 3/4"
	904206	4	LOCKWASHER, 3/8"
10	629717	1	SHAFT, cross, upper
	905123	2	KEY, #9 woodruff, 3/16" x 3/4"
11	630837	2	LEVER ASSEMBLY, upper cross shaft (Includes item 13)
12	910948	2	CAPSCREW, 3/8"NC x 2"
	904206	2	LOCKWASHER, 3/8"
	911026	2	NUT, 3/8"NC
13	624584	2	BUSHING, upper cross shaft lever
14	648956	1	TUBE ASSEMBLY, torque, upper cross shaft (Includes item 15)
15	630795	2	BUSHING, torque tube
16	630841	2	LEVER ASSEMBLY, torque tube (Includes item 18)
17	916274	2	CAPSCREW, 3/8"NC x 2-1/4"
	904206	2	LOCKWASHER, 3/8"
	911026	2	NUT, 3/8"NC
18	624584	2	BUSHING, torque tube lever
19	043881	2	SPRING, cross shaft lever
20	666258	2	ROD, control, vertical
	911041	2	NUT, 3/8"NF
21	628736	4	YOKE, control rod
22	629454	1	SHAFT, cross, lower
	905123	2	KEY, #9 woodruff, 3/16" x 3/4"
23	630837	1	LEVER ASSEMBLY, lower cross shaft, left (Includes item 25)
24	910948	1	CAPSCREW, 3/8"NC x 2"
	904206	1	LOCKWASHER, 3/8"
	911026	1	NUT, 3/8"NC
25	624584	1	BUSHING, lower cross shaft lever

(Continued)

STEERING LEVERS AND LINKAGE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
26	630852	1	BELLCRANK ASSEMBLY, lower cross shaft (Includes item 27 and 28)
27	624584	2	BUSHING, lower cross shaft bellcrank (small)
28	630795	2	BUSHING, lower cross shaft bellcrank (large)
29	630850	1	BRACKET ASSEMBLY, lower cross shaft (Includes item 31)
30	913105	2	CAPSCREW, 1/2"NF x 1-1/2"
	904208	2	LOCKWASHER, 1/2"
31	630795	2	BUSHING, lower cross shaft bracket
32	630836	1	LEVER ASSEMBLY, lower cross shaft, right (Includes item 34)
33	910948	1	CAPSCREW, 3/8"NC x 2"
	904206	1	LOCKWASHER, 3/8"
	911026	1	NUT, 3/8"NC
34	624584	1	BUSHING, lower cross shaft lever
35	078810	10	PIN, control linkage yokes
	900801	10	PIN, cotter, 3/32" x 3/4"
36	{ 653975	1	ROD, control, lower left
	{ 653976	1	ROD, control, lower right
	911041	2	NUT, 3/8"NF
37	627451	2	PIN, lower control rod
	900801	2	PIN, cotter, 3/32" x 3/4"
38	656151	2	OVER-TRAVEL ASSEMBLY (Serviced only as a unit)
39	630833	2	PIN, retaining, over-travel
	900801	2	PIN, cotter, 3/32" x 3/4"
40	-----	1	VALVE, control (See CONTROL VALVE AND LINES)
41	-----	1	LEVER, throttle (See THROTTLE CONTROL)

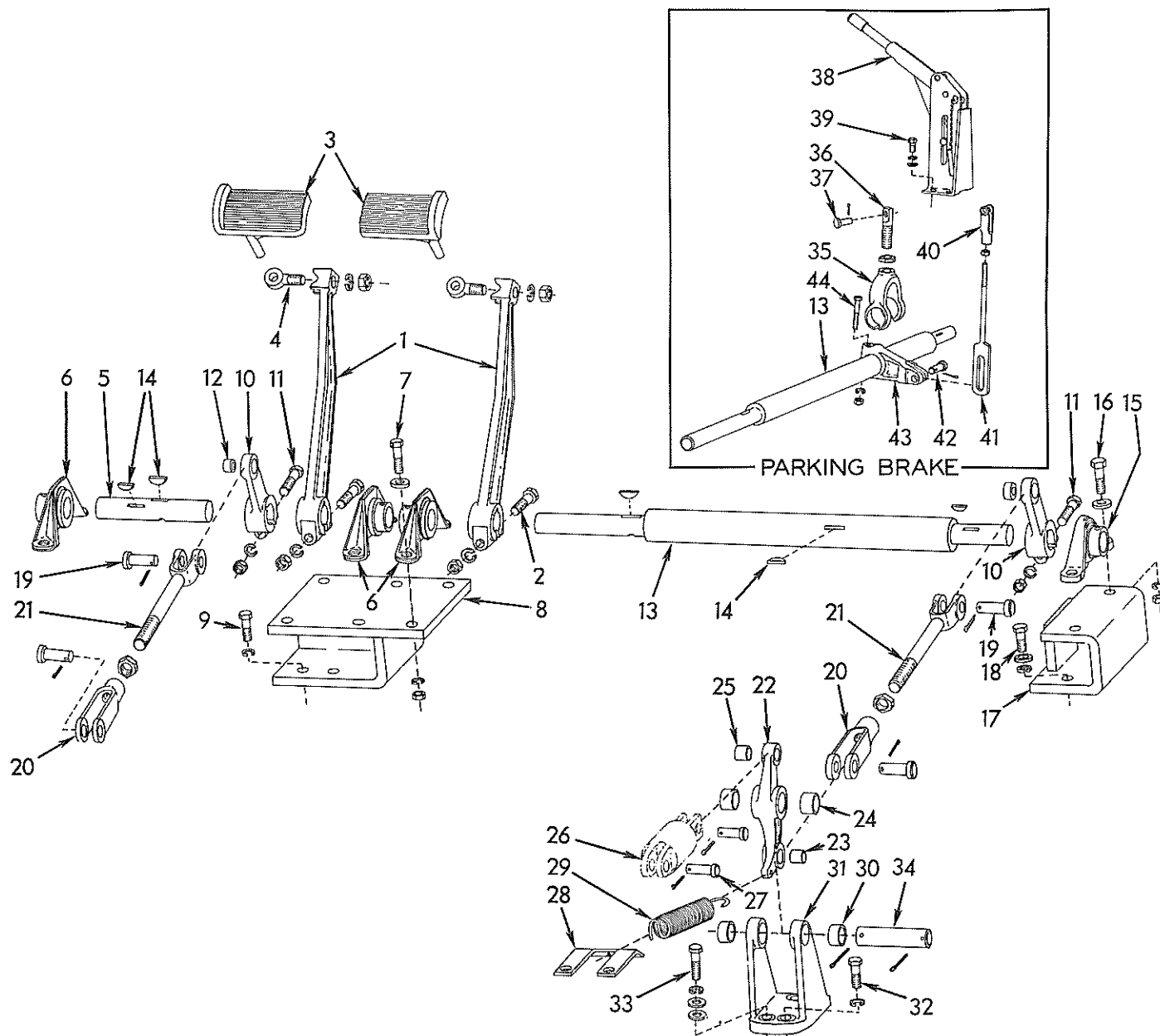


PARKING BRAKE LEVER ASSEMBLY 631981

T-37196

USAGE: See page 177

ITEM	PART NO.	QTY.	DESCRIPTION
1	637801	1	CAP, adjusting stud
2	637802	1	NUT, cap locking
3	923548	1	O-RING, adjusting stud knob
4	637803	1	LEVER, operating
5	637818	1	STUD, lever adjusting
6	637804	1	TUBE, adjusting stud
7	637819	1	PIN, connecting link
8	637805	1	LINK, connecting
9	637811	1	PIN, clevis
	900818	1	WASHER, plain, U.S. std., 1/2"
	900806	1	PIN, cotter, 1/8" x 1"
10	637808	2	BRACKET, pivot
11	637806	2	SPACER, pivot bracket (3/4" O. D.)
12	637809	2	SPACER, pivot bracket (5/8" O. D.)
13	637810	1	SPACER, pivot bracket (1/2" O. D.)
14	-----	1	BRACKET, supporting (Not serviced separately)
15	099575	1	CAPSCREW, pivot bracket
	919219	1	NUT, elastic stop, thin, 3/8"NF
16	637820	1	PIN, lever locking (Includes chain)
	648406	1	PIN, drive



— BRAKE CONTROL —

T-74631

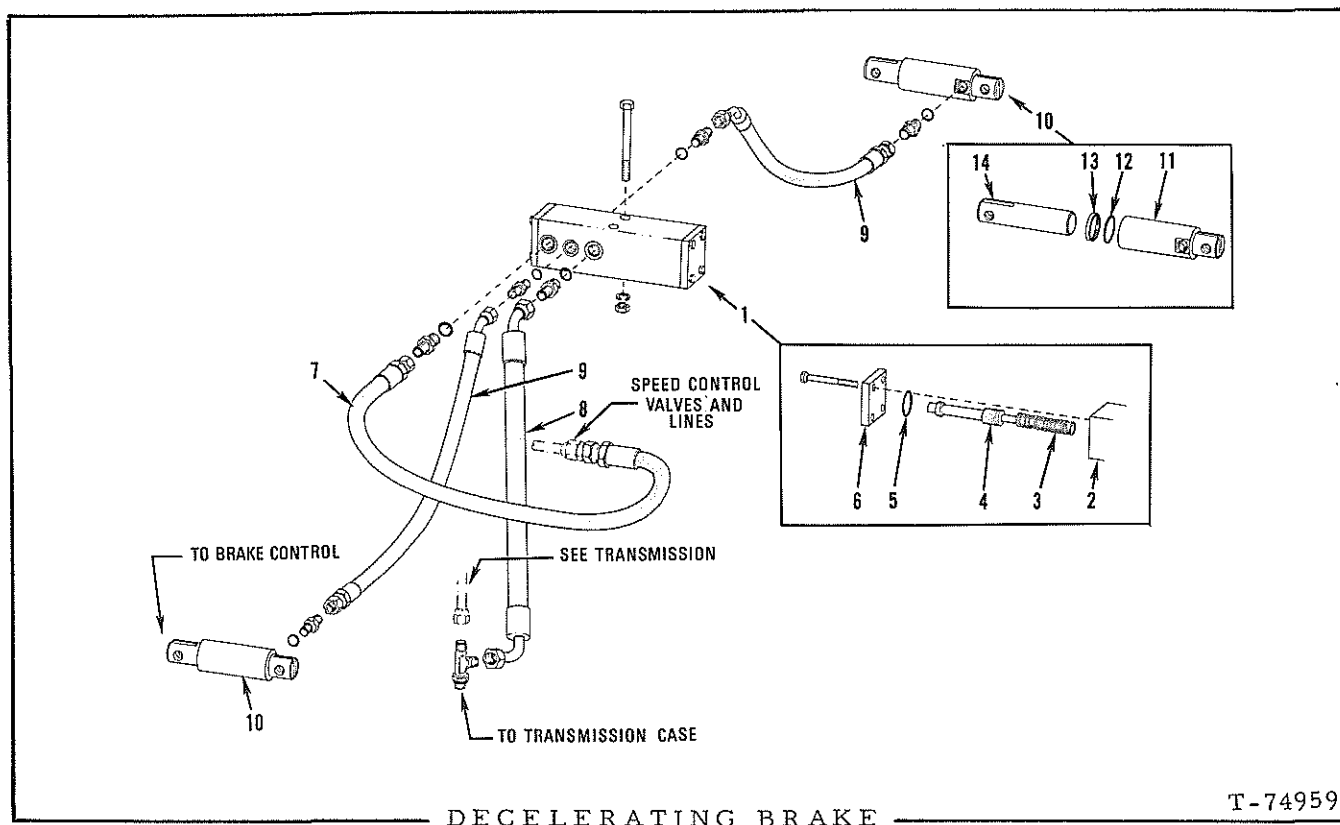
BRAKE CONTROL

ITEM	PART NO.	QTY.	DESCRIPTION
1	655473	2	LEVER, pedal
2	035278	2	CAPSCREW, 1/2" NF x 2-3/4"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2" NF
3	623151	2	PAD, pedal lever
4	050433	2	BOLT, eye, pedal lever pad
	904209	2	LOCKWASHER, 5/8"
	911044	2	NUT, 5/8" NF
5	655643	1	SHAFT, left pedal
6	650026	3	BEARING, pedal shafts, left side
7	035073	6	CAPSCREW, 1/2" NF x 1-3/4"
	064531	6	WASHER, plain
	904208	6	LOCKWASHER, 1/2"
	911043	6	NUT, 1/2" NF
8	655711	1	BRACKET, pedal shaft bearings, left
9	035190	4	CAPSCREW, 1/2" NF x 1-1/2"
	904208	4	LOCKWASHER, 1/2"
10	655478	2	LEVER ASSEMBLY, pedal shafts (Includes item 12)
11	035278	2	CAPSCREW, 1/2" NF x 2-3/4"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2" NF
12	050308	2	BUSHING, pedal shaft lever
13	655642	1	SHAFT, right pedal
14	631883	5	KEY, pedal shafts (1/4" x 1-1/4")
15	655958	1	BEARING, pedal shaft, right side
16	035073	2	CAPSCREW, 1/2" NF x 1-3/4"
	064531	2	WASHER, plain
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2" NF
17	655709	1	BRACKET, pedal shaft bearing, right
18	916313	2	CAPSCREW, 1/2" NC x 1-3/4"
	904208	2	LOCKWASHER, 1/2"
	064531	2	WASHER, plain
19	623139	4	PIN, yoke, pedal shaft lever rod
	910302	4	PIN, cotter, 5/32" x 1-1/4"
20	628535	2	YOKE, pedal shaft lever rod
21	628536	2	ROD, pedal shaft lever
	910847	2	NUT, jam, 3/4" NF
22	643024	2	LEVER ASSEMBLY, rocker (Includes items 23, 24, and 25)
23	623164	2	BUSHING, rocker lever, lower

(Continued)

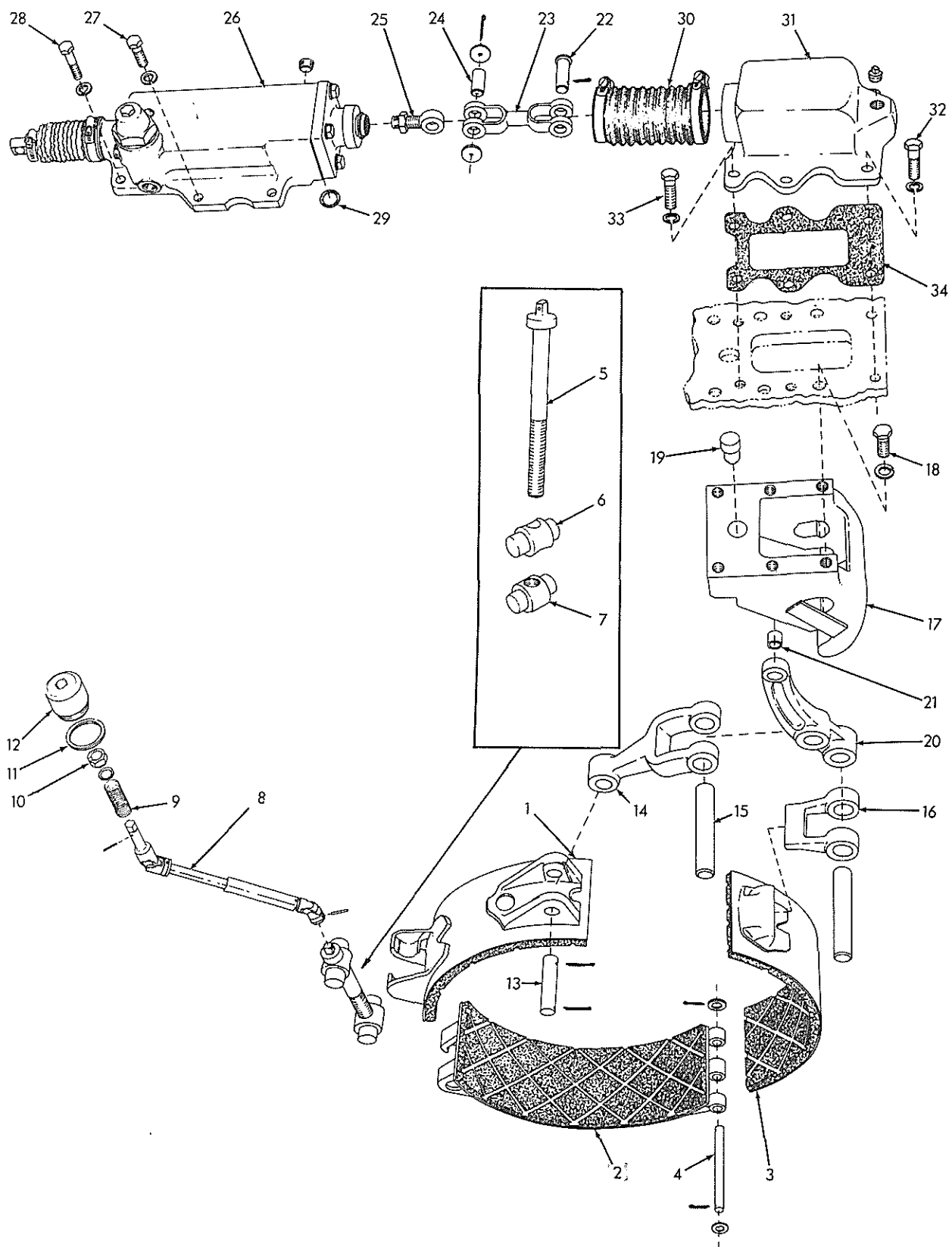
BRAKE CONTROL (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
24	631882	4	BUSHING, rocker lever, center
25	052669	2	BUSHING, rocker lever, upper
26	-----	2	CYLINDER ASSEMBLY (See DECELERATING BRAKE)
27	052671	4	PIN, yoke, cylinder
	900806	4	PIN, cotter, 1/8" x 1"
28	647907	2	CLIP, retracting spring
29	658737	2	SPRING, retracting
30	631882	4	BUSHING, rocker lever bracket
31	629252	2	BRACKET ASSEMBLY, rocker lever (Includes item 30)
32	035190	4	CAPSCREW, 1/2" NC x 1-1/2"
33	035236	2	CAPSCREW, 1/2" NC x 1-3/4"
	910244	4	WASHER, plain, SAE std., 1/2"
	904208	6	LOCKWASHER, 1/2"
34	639459	2	PIN, rocker lever bracket
	910320	4	PIN, cotter, 5/32" x 1-1/2"
35	631881	1	YOKE, shaft bracing
36	638338	1	EYE, shaft bracing yoke
	911051	1	NUT, jam, 1"NF
37	052671	1	PIN, bracing yoke eye
	900806	1	PIN, cotter, 1/8" x 1"
38	631981	1	LEVER ASSEMBLY, operating, parking brake (See page 175 for parts)
39	035221	4	CAPSCREW, 1/2" NC x 1"
	904208	4	LOCKWASHER, 1/2"
	910244	1	WASHER, plain, SAE std., 1/2"
40	068389	1	YOKE, parking brake rod
41	654860	1	ROD, connecting, parking brake lever
42	052671	1	PIN, parking brake lever
	900806	1	PIN, cotter, 1/8" x 1"
43	631974	1	LEVER, parking brake
44	065588	1	CAPSCREW, 1/2" NF x 3-1/2"
	904208	1	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2"NF



ITEM	PART NO.	QTY.	DESCRIPTION
1	667662	1	VALVE ASSEMBLY, sensing (Consists of items 2 thru 6)
	919227	2	CAPSCREW, 3/8"NC x 3-1/4"
	904206	2	LOCKWASHER, 3/8"
	911026	2	NUT, 3/8"NC
2	667664	1	HOUSING, sensing valve
3	085694	1	SPRING, sensing valve
4	667665	1	SPOOL, sensing valve
5	923664	2	O-RING, sensing valve cover
6	667663	2	COVER, sensing valve
	916272	8	CAPSCREW, 3/8"NC x 1-1/4"
7	667453	1	HOSE ASSEMBLY, oil supply (See HOSE PARTS)
	921409	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING 921349)
8	667454	1	HOSE ASSEMBLY, oil return (See HOSE PARTS)
	921409	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING 921349)
	922792	1	TEE, adjustable, flare type, 1/2" tube side and end, 3/4"NF male end (Includes washer, nut and O-RING 921349)
9	646142	2	HOSE ASSEMBLY, valve to cylinder (See HOSE PARTS)
	922522	4	CONNECTOR, flare type, 3/8" tube, 9/16"NF male end (Includes O-RING 921885)
10	667365	2	CYLINDER ASSEMBLY (Consists of items 11 thru 14)
11	-----	2	BARREL, cylinder (Not serviced separately)
12	923649	2	O-O-RING, cylinder barrel
13	-----	2	SEAL wiper, cylinder piston (Order item 15)
14	-----	2	PISTON, cylinder (Not serviced separately)
15	668339	2	SEAL KIT (Consists of items 12 and 13)

□Components of item 15



BRAKES

T-70596

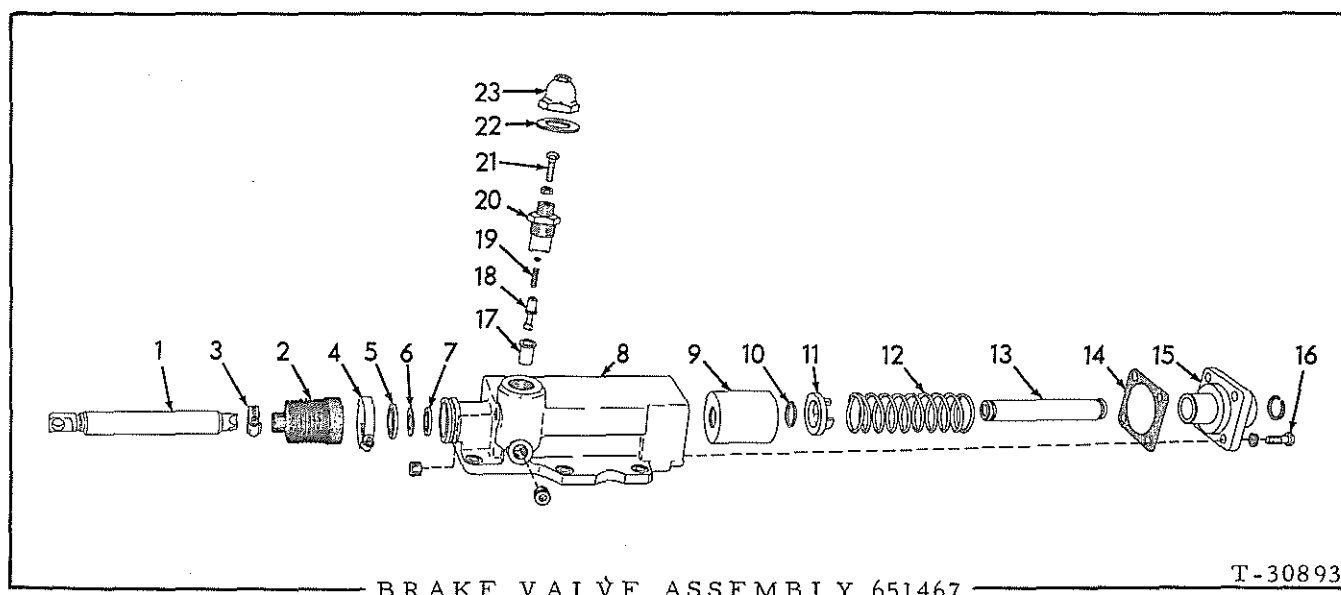
BRAKES

ITEM	PART NO.	QTY.	DESCRIPTION
1	637993	2	BAND ASSEMBLY, top section (Includes bonded lining)
2	638002	2	BAND ASSEMBLY, bottom section (Includes bonded lining)
3	637997	2	BAND ASSEMBLY, rear section (Includes bonded lining)
4	623130	2	PIN, band hinge
	912900	4	WASHER, plain
	900806	4	PIN, cotter, 1/8" x 1"
5	650276	2	SCREW, band adjusting
6	650275	2	PIN, adjusting screw, upper band
7	623153	2	PIN, adjusting screw, bottom band
8	650273	2	DRIVE ASSEMBLY, universal, band adjustment (Serviced only as a unit)
	921330	2	PIN, spring, 7/32" x 1-1/8" (lower)
	921469	2	PIN, spring, 7/32" x 1" (upper)
9	624193	2	SPRING, band adjustment
10	650274	2	SLEEVE, band adjustment
11	623144	2	GASKET, brake adjustment hole plug
12	653773	2	PLUG, brake adjustment hole
13	623132	2	PIN, top band
	900808	4	PIN, cotter, 1/8" x 1-1/2"
14	623133	2	YOKE, brake band, upper
15	623131	4	PIN, band yoke
16	623158	2	YOKE, brake band, lower
17	623182	2	BRACKET ASSEMBLY, band lever (Includes item 19)
18	023465	12	CAPSCREW, 5/8"NF x 1-3/4"
	904209	12	LOCKWASHER, 5/8"
19	643740	2	PIN, band lever bracket
20	623165	2	LEVER ASSEMBLY, band operating (Includes item 21)
21	623164	2	BUSHING, band operating lever
22	623139	2	PIN, connecting rod, rear
	910302	2	PIN, cotter, 5/32" x 1-1/4"
23	623140	2	ROD, connecting
24	637729	2	PIN, connecting rod, front
	904003	2	PIN, cotter, 1/8" x 2-1/4"
	637730	4	WASHER, plain
25	638818	2	EYE, connecting
	910847	2	NUT, jam, 3/4"NF

(Continued)

BRAKES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
26	651467	2	VALVE ASSEMBLY, operating (See page 183 for parts)
	908944	2	PLUG, pipe, hex-socket, 1/2"NPT
27	035073	8	CAPSCREW, 1/2"NF x 1-3/4"
28	035892	4	CAPSCREW, 1/2"NF x 2-1/2"
	904208	12	LOCKWASHER, 1/2"
29	923575	2	O-RING, valve discharge port
30	623138	2	BOOT, connecting
	921914	4	CLAMP, hose, 2-5/16" x 3-1/4" diam.
31	623137	2	COVER, band linkage
	901653	2	PLUG, pipe, 3/8"NPT
32	035067	4	CAPSCREW, 1/2"NF x 2"
33	070467	8	CAPSCREW, 1/2"NF x 1"
	904208	12	LOCKWASHER, 1/2"
34	623136	2	GASKET, band linkage cover



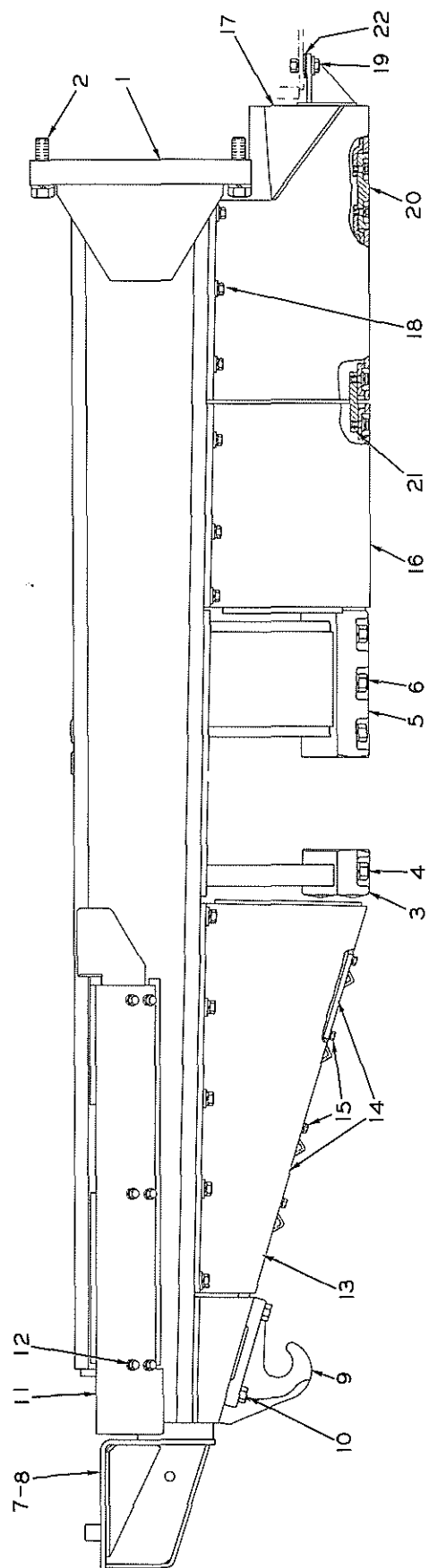
BRAKE VALVE ASSEMBLY 651467

USAGE: See page 181

ITEM	PART NO.	QTY.	DESCRIPTION
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NOTE: All quantities are for one (1) Valve Assembly only

1	651451	1	SPOOL, valve
2	623195	1	BOOT, valve spool
3	921912	1	CLAMP, hose, 1-1/16" to 2" diam.
4	921913	1	CLAMP, hose, 1-13/16" to 2-3/4" diam.
5	623197	1	SEAL, outer
6	623489	1	WASHER, back-up, inner seal (vellumoid)
7	623198	1	SEAL, inner
8	623202	1	HOUSING
	908944	2	PLUG, pipe, hex-socket-hd., 1/2"NPT
9	651464	1	PISTON ASSEMBLY (Includes fulcrum pin)
10	623206	2	RING, snap, actuating rod
11	623203	1	RETAINER, actuating rod spring
12	623204	1	SPRING, actuating rod
13	623207	1	ROD, actuating
14	623196	1	GASKET, actuating rod retainer
15	623205	1	RETAINER, actuating rod
16	614478	4	CAPSCREW, 1/2"N x 1-3/8"
	904208	4	LOCKWASHER, 1/2"
17	623211	1	SEAT, relief valve
18	628019	1	VALVE, relief
19	623210	1	SPRING, relief valve
	911982	1	WASHER, plain
20	638563	1	CAP, relief valve spring
21	638561	1	CAPSCREW, pressure adjustment
	911048	1	NUT, jam, 3/8"N
22	641148	1	GASKET, cap
23	638562	1	CAP, pressure adjustment screw

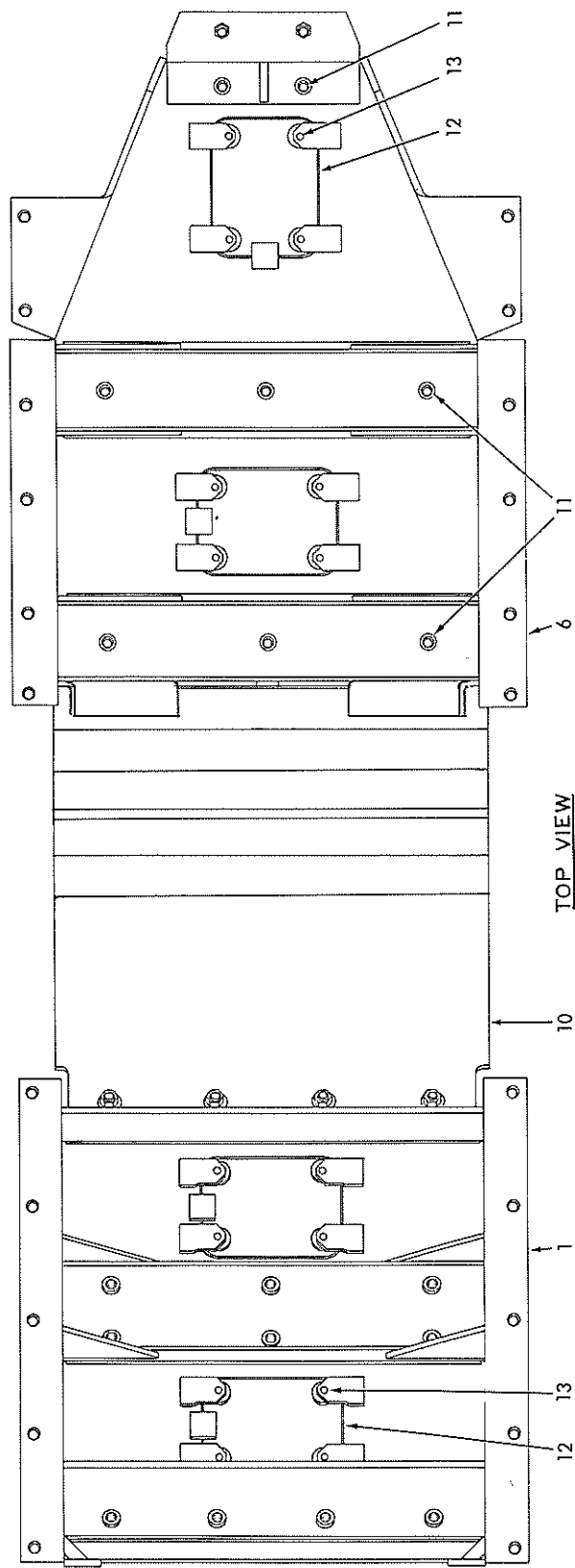


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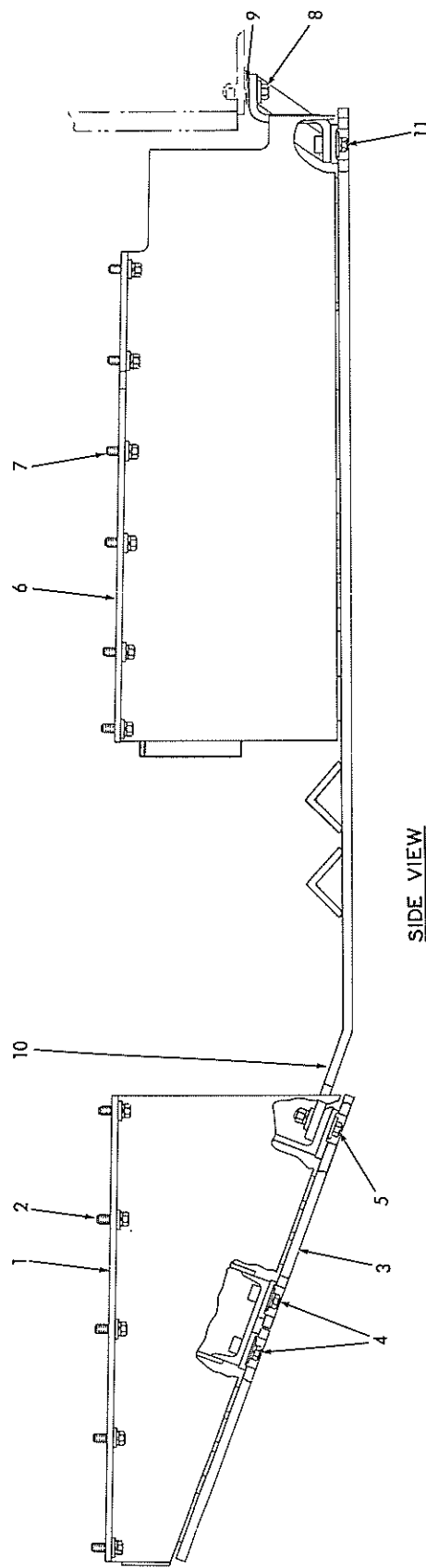
MAIN FRAME

MAIN FRAME

ITEM	PART NO.	QTY.	DESCRIPTION
1	660425	1	FRAME ASSEMBLY (Includes items 3 thru 6)
2	074103	12	CAPSCREW, 1-1/4"NF x 4-3/4"
	904210 914736	12	LOCKWASHER, 1-1/4"
3	630038	1	CAP, beam pivot pin, front
4	031055	2	CAPSCREW, 1"NF x 3-3/4"
	910916	2	LOCKWASHER, 1"
5	647327	1	CAP, beam pivot pin, rear
6	031055	6	CAPSCREW, 1"NF x 3-3/4"
	910916	6	LOCKWASHER, 1"
7	660202	1	BUMPER, front
8	916374	4	CAPSCREW, 1"NF x 3"
	910916	4	LOCKWASHER, 1"
	911047	4	NUT, 1"NF
9	040503	1	HOOK, front pull (Special equipment)
10	013006	4	CAPSCREW, 7/8"NF x 3-3/4"
	070400	4	NUT, high, 7/8"NF
11	{ 661691	1	PLATE, closure, left
	661692	1	PLATE, closure, right
12	919230	12	CAPSCREW, 1/2"NC x 1-3/8"
	904208	12	LOCKWASHER, 1/2"
	064531	12	WASHER, plain
13	630018	1	GUARD ASSEMBLY, crankcase (Includes items 14 and 15)
	912895	10	CAPSCREW, 3/4"NC x 2"
	904369	10	LOCKWASHER, 3/4"
	061689	10	WASHER, plain
14	091634	2	PLATE, cover, oil and water drain holes
15	070469	8	CAPSCREW, 1/2"NF x 1-1/4"
	904208	8	LOCKWASHER, 1/2"
16	653953	1	GUARD, transmission, front section
	916221	6	CAPSCREW, 5/8"NC x 1-3/4"
	904209	6	LOCKWASHER, 5/8"
	064810	6	WASHER, plain
	064810	6	WASHER, plain
17	666940	1	GUARD ASSEMBLY, transmission, rear section (Includes item 20)
18	916221	6	CAPSCREW, 5/8"NC x 1-3/4"
	904209	6	LOCKWASHER, 5/8"
	064810	6	WASHER, plain
19	916331	2	CAPSCREW, 3/4"NF x 2-1/4"
	061689	2	WASHER, plain
	904369	2	LOCKWASHER, 3/4"
	911045	2	NUT, 3/4"NF
20	642633	1	COVER, transmission oil drain
	035061	2	CAPSCREW, 1/2"NC x 1-1/4"
	904208	2	LOCKWASHER, 1/2"
21	630039	1	PLATE, guard attaching
	919190	4	CAPSCREW, 1/2"NF x 1-3/8"
	904208	4	LOCKWASHER, 1/2"
	064531	4	WASHER, plain
22	{ 631959	2	SHIM, rear guard (1/16" thick. Use as required)
	631960	2	SHIM, rear guard (1/8" thick. Use as required)



TOP VIEW



SIDE VIEW

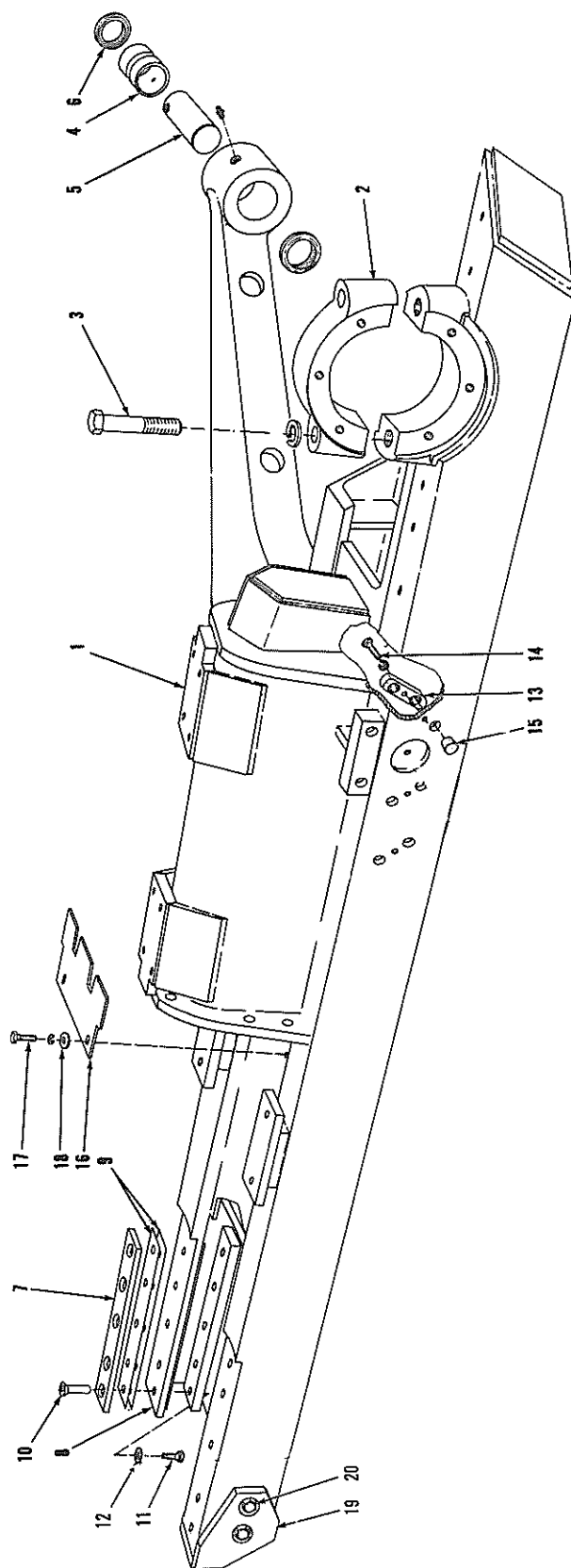
BOTTOM GUARDS

T-72964

BOTTOM GUARDS

USAGE: Special equipment.

ITEM	PART NO.	QTY.	DESCRIPTION
1	664745	1	FRAME, front
2	012453	10	CAPSCREW, 3/4"NF x 2"
	904369	10	LOCKWASHER, 3/4"
	061689	10	WASHER, plain
3	645961	2	PLATE ASSEMBLY, bottom, front sections (Includes items 12 and 13)
4	916331	10	CAPSCREW, 3/4"NF x 2-1/4"
	904369	10	LOCKWASHER, 3/4"
	900820	10	WASHER, plain, US std., 3/4"
5	916335	4	CAPSCREW, 3/4"NF x 3-1/4"
	061689	8	WASHER, plain
	904369	4	LOCKWASHER, 3/4"
	911045	4	NUT, 3/4"NF
6	667764	1	FRAME, rear
7	915439	12	CAPSCREW, 5/8"NC x 2"
	904209	12	LOCKWASHER, 5/8"
	064810	12	WASHER, plain
8	916334	2	CAPSCREW, 3/4"NF x 3"
	061689	2	WASHER, plain
	904369	2	LOCKWASHER, 3/4"
	911045	2	NUT, 3/4"NF
9	631959	1	SHIM, rear frame (Use as req'd)
10	664774	1	PLATE ASSEMBLY, bottom, rear section (Includes items 12 and 13)
11	916331	8	CAPSCREW, 3/4"NF x 2-1/4"
	904369	8	LOCKWASHER, 3/4"
	900820	8	WASHER, plain, US std., 3/4"
12	633283	4	COVER, access holes
13	916310	16	CAPSCREW, 1/2"NC x 1"
	904208	16	LOCKWASHER, 1/2"

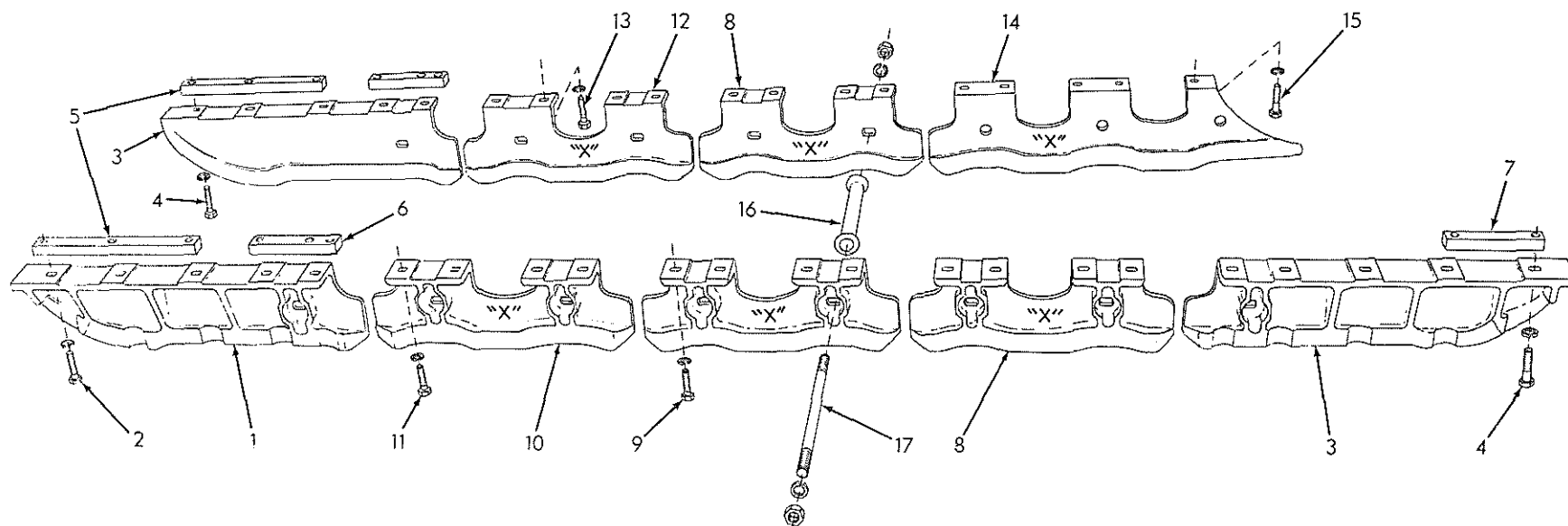


T-38124

TRACK FRAME

TRACK FRAME

ITEM	PART NO.	QTY.	DESCRIPTION	
1	0667439-4	1	FRAME ASSY., left	} Tractors prior to #16209
	0667440-2	1	FRAME ASSY., right	
	0669405-3	1	FRAME ASSY., left	} Tractors #16209 and up
	0669406-1	1	FRAME ASSY., right	
	0914465-0	2	FITTING, lubricating, 1/8"NPT	
2	0069810-0	2	CAP, sprocket shaft bearing	
3	0052077-5	4	CAPSCREW, 1-1/4"NF x 6"	
	0904210-2	4	LOCKWASHER, 1-1/4"	
4	0664268-0	2	BUSHING, pivot shaft	
5	0664280-5	2	SHAFT, pivot	
6	0664281-3	4	SEAL, grease, pivot shaft	
7	0630624-0	4	BAR, slide, track idler, upper	
8	0631704-4	4	BAR, slide, track idler, lower	
9	0632575-7	4	SHIM, slide bar (.028" thick. Use as required)	
	0637601-6	4	SHIM, slide bar (.014" thick. Use as required)	
10	0631690-5	20	DOWEL, tapped, track idler slide bar	
11	0646045-5	20	CAPSCREW, Nylok, 3/8"NF x 1"	
12	0647080-1	20	WASHER, plain (hardened)	
13	0052144-3	6	BLOCK, tapped (For mounting dozing equipment)	
14	0035067-8	6	CAPSCREW, 1/2"NF x 2"	} Tractors prior to #16209
	0904208-6	6	LOCKWASHER, 1/2"	
	0915439-4	6	CAPSCREW, 5/8"NC x 2"	} Tractors #16209 and up
	0904209-4	6	LOCKWASHER, 5/8"	
15	0664850-5	12	CORK (1" diam.)(For protecting dozer mounting holes)	
16	0097490-7	2	PLATE, closure	
17	0012992-4	4	CAPSCREW, 3/8"NF x 1-1/4"	} Tractors prior to #16209
	0904206-0	4	LOCKWASHER, 3/8"	
	0044973-6	4	WASHER, plain	
	0913828-0	4	CAPSCREW, 5/8"NC x 1-1/2"	} Tractors #16209 and up
	0904209-4	4	LOCKWASHER, 5/8"	
	0064810-5	4	WASHER, plain	
<u>NOTE:</u> Items listed below are Special Equipment				
19	0656795-2	2	GUARD, end left hand	
	0656796-0	2	GUARD, end, right hand	
20	0012453-7	8	CAPSCREW, 3/4"NF x 2"	
	0904369-6	8	LOCKWASHER, 3/4"	
	0911045-3	8	NUT, 3/4"NF	

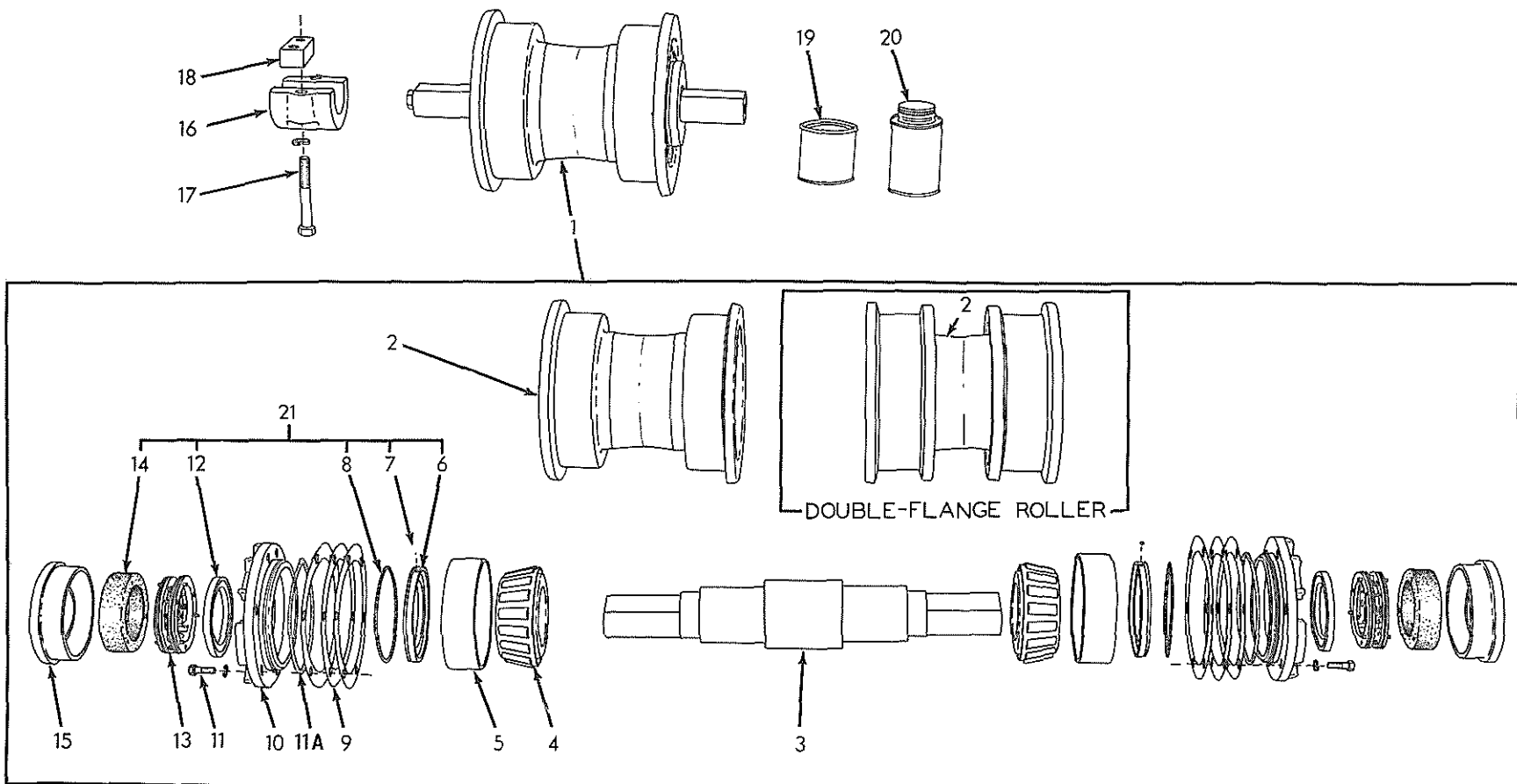


GUARDS MARKED "X" ARE SPECIAL EQUIPMENT

TRACK ROLLER GUARDS

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

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	0669551-4	3	3	GUARD, end section, left hand
2	0070285-2	15	15	CAPSCREW, 3/4"NF x 3"
	0677012-6	15	15	WASHER, plain
3	0669552-2	3	3	GUARD, end section, right hand
4	0070285-2	15	15	CAPSCREW, 3/4"NF x 3"
	0677012-6	15	15	WASHER, plain
5	0632349-7	4	4	BLOCK, tapped, front guard attachment (16-1/4" long)
6	0632325-7	4	4	BLOCK, tapped, front guard attachment (8-1/2" long)
7	0632350-5	4	4	BLOCK, tapped, rear guard attachment
8	0669550-6	-	6	GUARD, intermediate section
9	0070285-2	-	24	CAPSCREW, 3/4"NF x 3"
	0677012-6	-	24	WASHER, plain
10	0669553-0	-	2	GUARD, intermediate front section, left hand
11	0070285-2	-	8	CAPSCREW, 3/4"NF x 3"
	0677012-6	-	8	WASHER, plain
12	0669554-8	-	2	GUARD, intermediate front section, right hand
13	0070285-2	-	8	CAPSCREW, 3/4"NF x 3"
	0677012-6	-	8	WASHER, plain
14	{ 0669555-5	-	1	GUARD, rear inner section, left side
	0669556-3	-	1	GUARD, rear inner section, right side
15	0070285-2	-	10	CAPSCREW, 3/4"NF x 3"
	0677012-6	-	10	WASHER, plain
16	0632361-2	2	16	SPACER, guard bracing
17	0650847-7	2	16	ROD, guard bracing
	0910916-6	4	32	LOCKWASHER, 1"
	0911047-9	4	32	NUT, 1"NF

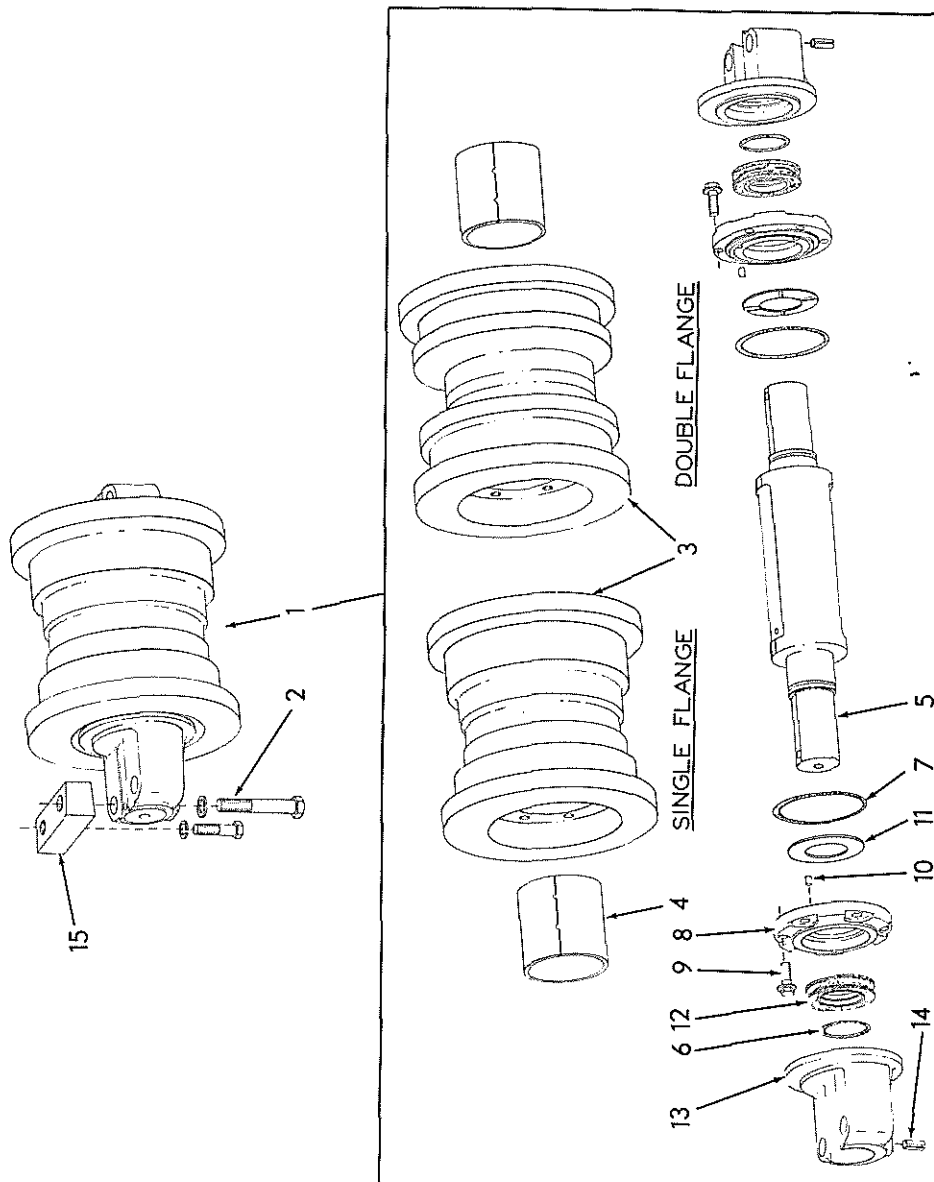


TRACK ROLLERS (First Type)

USAGE: Tractors prior to serial No. 10S17615

ITEM	PART NO.	QTY.	DESCRIPTION	
1	0667647-2	6	ROLLER ASSY., single-flange	} Each consists of items 2 thru 15
	0667648-0	8	ROLLER ASSY., double-flange	
2	0667645-6	6	ROLLER, single-flange	
	0667646-4	8	ROLLER, double-flange	
3	0622437-2	14	SHAFT	
4	0076296-3	28	CONE ASSY., bearing	
5	0604398-8	28	CUP, bearing	
6	0622197-2	28	□RING, seal, inner	
7	0905357-0	28	□BALL, steel, 3/16" diam.	
8	0923822-1	28	□O-RING, seal ring	
9	0655470-2	56	SHIM, bearing adjustment (.003" thick)	} Use as required
	0648748-2	28	SHIM, bearing adjustment (.005" thick)	
	0076294-8	56	SHIM, bearing adjustment (.007" thick)	
	0076293-0	56	SHIM, bearing adjustment (.010" thick)	
	0076292-2	28	SHIM, bearing adjustment (.032" thick)	
10	0667600-1	28	RETAINER, bearing	
11	0913105-3	168	CAPSCREW, 1/2"NF x 1-1/2"	
	0904208-6	168	LOCKWASHER, 1/2"	
11A	0923932-8	28	O-RING, bearing retainer	
12	0051623-7	28	□RING, seal, outer	
13	0051959-5	28	SPRING ASSY., seal (Serviced only as a unit)	
14	0051629-4	28	□BOOT, seal spring	
15	0076298-9	28	RETAINER, seal	
16	0098744-6	28	BRACKET, attaching	
17	0085026-3	56	CAPSCREW, 7/8"NF x 4-1/2"	
	0676122-5	56	WASHER, plain	
18	0098730-6	56	BLOCK, tapped, attaching capscREW	} Not used when full set of Track Roller Guards is installed
	0012453-7	56	CAPSCREW, 3/4"NF x 2"	
	0904369-6	56	LOCKWASHER, 3/4"	
19	0033288-2	-	CEMENT, neoprene, 1/2 pint can	} For cementing seal boots
20	0054890-9	-	SOLVENT, neoprene cement, 1/2 pint can	
21	0622234-3	14	SEAL KIT (Includes parts for one (1) roller only; items 6, 7, 8, 12 and 14)	

□Components of item 21



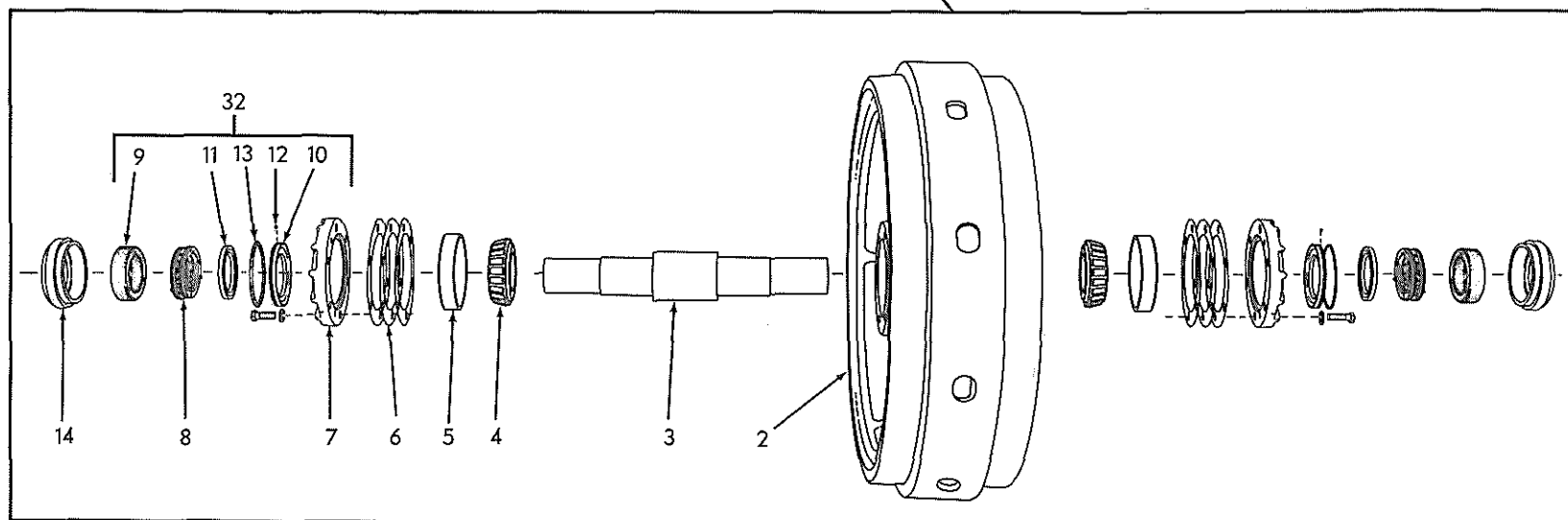
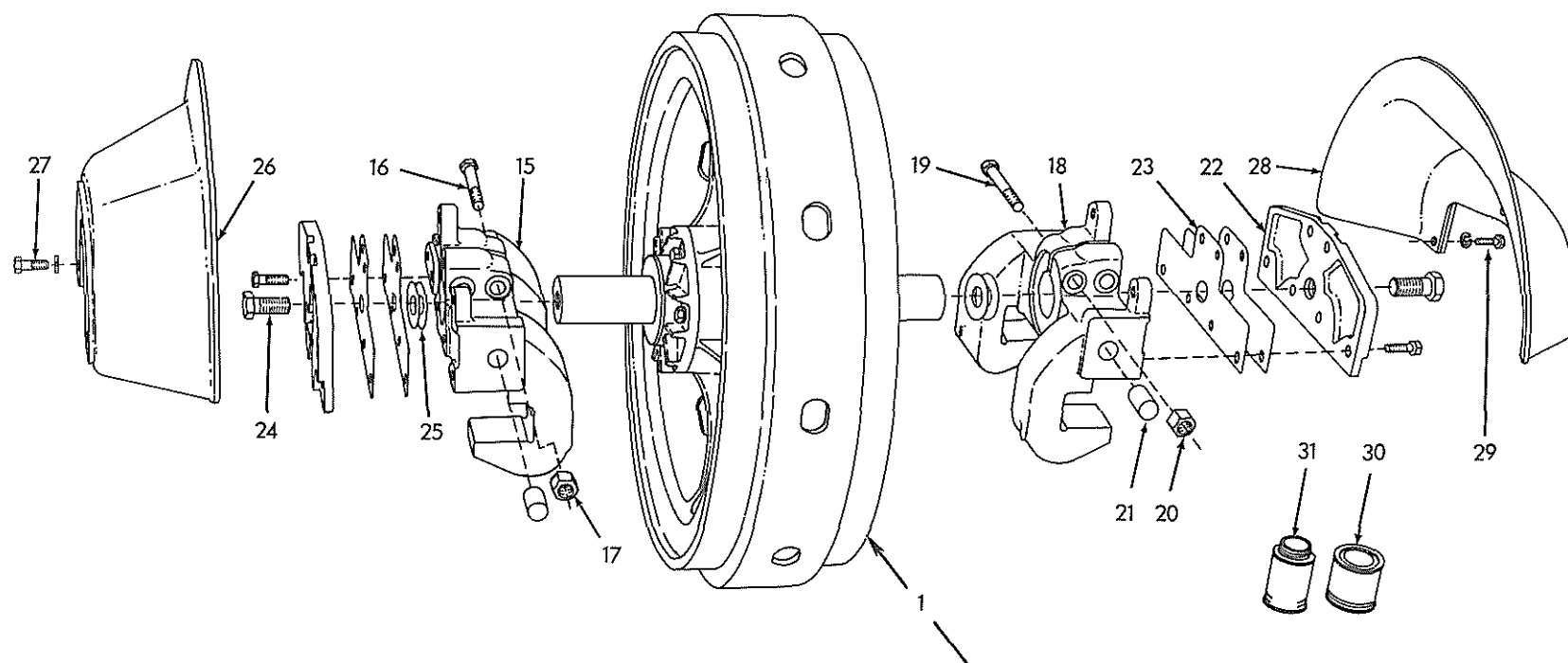
T-75942

TRACK ROLLERS (Second Type)

TRACK ROLLERS (Second Type)

USAGE: Tractors serial No. 10S17615 and up

ITEM	PART NO.	QTY.	DESCRIPTION	
1	0671146-9	6	ROLLER ASSY., single-flange	} Each includes items 3 thru 14
	0671153-5	8	ROLLER ASSY., double-flange	
2	0927143-8	56	CAPSCREW, 7/8"NF x 4-3/4"	
	0676122-5	56	WASHER, plain	
3	0671143-6	6	ROLLER ASSY., single-flange	} Each includes item 4
	0671144-4	8	ROLLER ASSY., double-flange	
NOTE: Quantities listed below are for one (1) roller only				
4	0671145-1	2	BUSHING, roller	
5	0671127-9	1	SHAFT	
6	0923581-8 0923852-8	2	O-RING, shaft	
7	0923591-2	2	O-RING, retainer	
8	0671130-3	2	RETAINER ASSY. (Includes items 10 and 11)	
9	0670849-9	12	CAPSCREW, retainer attaching	
10	0669707-2	6	PIN, washer retaining	
11	0671129-5	2	WASHER, thrust (Also order item 9)(Requires a grind and drill operation to install)	
12	0671177-4	2	SEAL ASSY. (Serviced only as a unit)	
13	0670852-3	2	CAP, seal retaining	
14	0922419-7	2	PIN, spring (1/2" x 1-1/8")	
15	0098730-6	4	BLOCK, roller mounting	} Not used when full set of Track Roller Guards is installed
	0012453-7	4	CAPSCREW, 3/4"NF x 2"	
	0904369-6	4	LOCKWASHER, 3/4"	

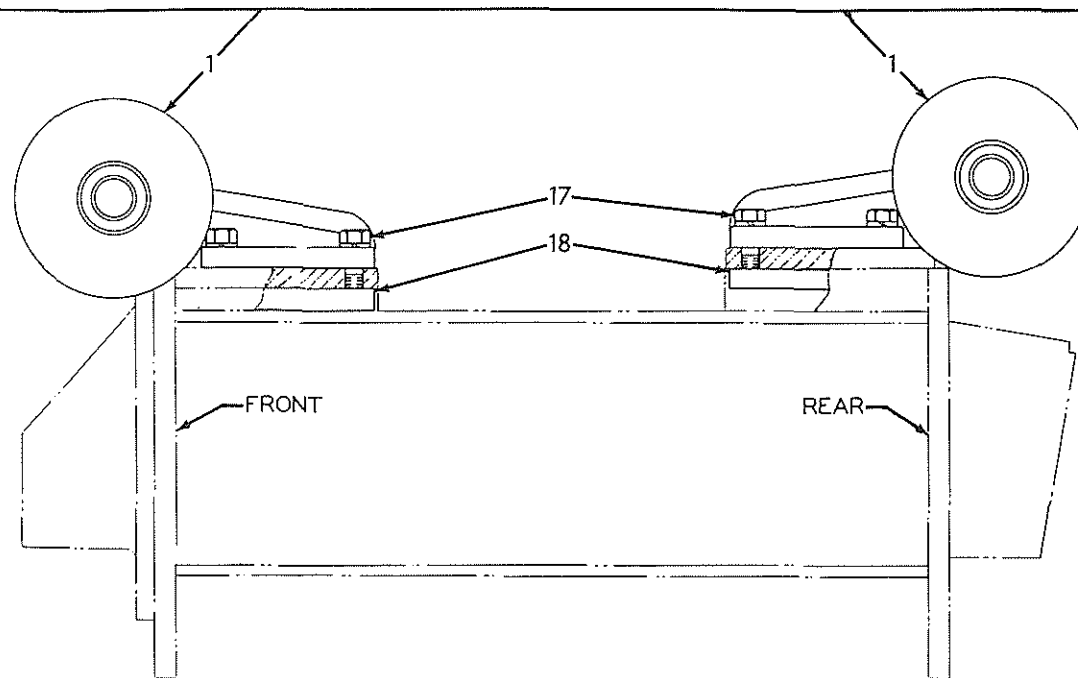
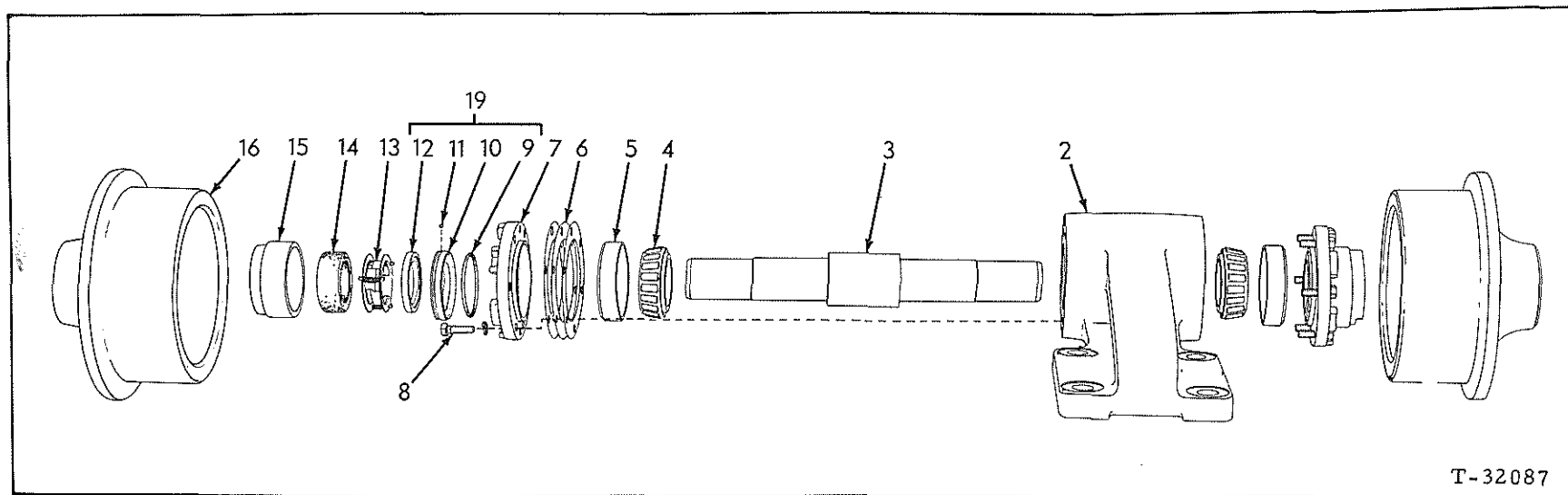


TRACK IDLER

T-33433

TRACK IDLER

ITEM	PART NO.	QTY.	DESCRIPTION	
1	{ 667380	2	IDLER ASSEMBLY, track (Spoke-type. Standard)	} Each consists of items 2 thru 14
	667388	2	IDLER ASSEMBLY, track (Solid-type. Special)	
2	{ 622203	2	IDLER, only (Spoke-type. Standard)	
	622649	2	IDLER, only (Solid-type. Special)	
3	667379	2	SHAFT	
4	076296	4	CONE ASSEMBLY, bearing	
5	630345	4	CUP, bearing	
6	{ 051614	6	SHIM, bearing adjustment (.032" thick)	} Use as required
	051615	6	SHIM, bearing adjustment (.010" thick)	
	051616	6	SHIM, bearing adjustment (.007" thick)	
	655548	8	SHIM, bearing adjustment (.003" thick)	
7	622202	4	RETAINER, bearing	
	916406	24	CAPSCREW, 5/8"NF x 1-3/4"	
	904209	24	LOCKWASHER, 5/8"	
8	051959	4	SPRING ASSEMBLY, seal (Serviced only as a unit)	
9	051629	4	□BOOT, seal	
10	622197	4	□RING, seal, inner	
11	051623	4	□RING, seal, outer	
12	905357	4	□BALL, steel, 3/16" diam.	
13	923822	4	□O-RING, seal ring	
14	622199	4	RETAINER, seal follower	
15	622545	2	BRACKET ASSEMBLY, left (Includes item 21)	
16	916342	4	CAPSCREW, 3/4"NF x 5-3/4"	
17	012767	4	NUT, high, 3/4"NF	
18	622546	2	BRACKET ASSEMBLY, right (Includes item 21)	
19	916342	4	CAPSCREW, 3/4"NF x 5-3/4"	
20	012767	4	NUT, high, 3/4"NF	
21	051647	4	PIN, dowel, idler bracket	
22	667236	4	PLATE, guide	
	916406	24	CAPSCREW, 5/8"NF x 1-3/4"	
23	{ 667378	8	SHIM, guide plate (.062" thick. Use as required)	
	667377	8	SHIM, guide plate (.031" thick. Use as required)	
24	926566	4	CAPSCREW, idler adjustment (1"NF x 2")	
25	{ 667366	16	SHIM, idler adjustment (1/16" thick)	
	667367	4	SHIM, idler adjustment (1/32" thick)	
26	084997	2	GUARD, left	} Not used with special solid-type idler
27	916021	6	CAPSCREW, 5/8"NF x 2"	
	904209	6	LOCKWASHER, 5/8"	
28	084998	2	GUARD, right	
29	916021	6	CAPSCREW, 5/8"NF x 2"	
	904209	6	LOCKWASHER, 5/8"	
30	033288	-	CEMENT, neoprene, 1/2 pint can	} For cementing seal boots and gaskets
31	054890	-	SOLVENT, neoprene, 1/2 pint can	
32	622234	2	SEAL KIT (Includes parts for one (1) idler only; items 9 thru 13)	
			□Components of item 32	



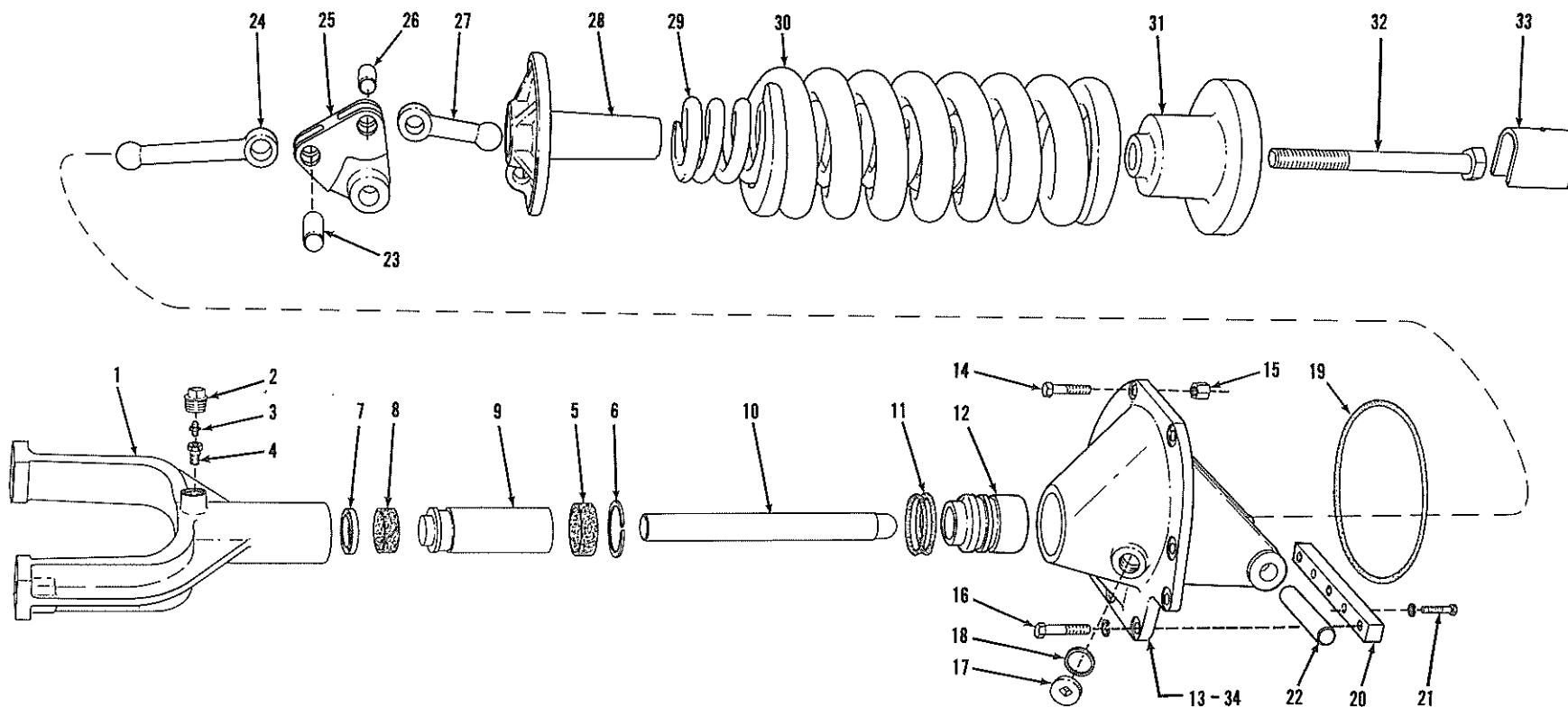
TRACK CARRIER ROLLER

T-32088

TRACK CARRIER ROLLER

ITEM	PART NO.	QTY.	DESCRIPTION
1	623825	4	ROLLER ASSEMBLY (Consists of items 2 thru 16)
2	623828	4	BRACKET
3	623827	4	SHAFT
4	043491	8	CONE ASSEMBLY, bearing
5	659149	8	CUP, bearing
6	655458	16	SHIM, bearing adjustment (.003" thick)
	073024	16	SHIM, bearing adjustment (.007" thick)
	073025	16	SHIM, bearing adjustment (.010" thick)
	073026	8	SHIM, bearing adjustment (.032" thick)
Use as required			
7	073023	8	RETAINER, bearing
8	013058	48	CAPSCREW, 3/8"NC x 1-1/4"
	904206	48	LOCKWASHER, 3/8"
9	073029	8	□O-RING, seal packing
10	073027	8	□RING, seal, inner
11	905357	8	□BALL, steel, 3/16" diam.
12	621283	8	□RING, seal, outer
13	048666	8	SPRING ASSEMBLY, seal (Serviced only as a unit)
14	048665	8	BOOT, seal spring
15	073634	8	RETAINER, seal
16	623829	8	ROLLER
17	012762	16	CAPSCREW, attaching (7/8"NF x 3-1/4")
	905347	16	LOCKWASHER, 7/8"
18	623826	8	BLOCK, tapped, attaching cap screws
19	078941	4	SEAL KIT (Includes parts for one (1) roller assembly only; items 9 thru 12)

□Components of item 19

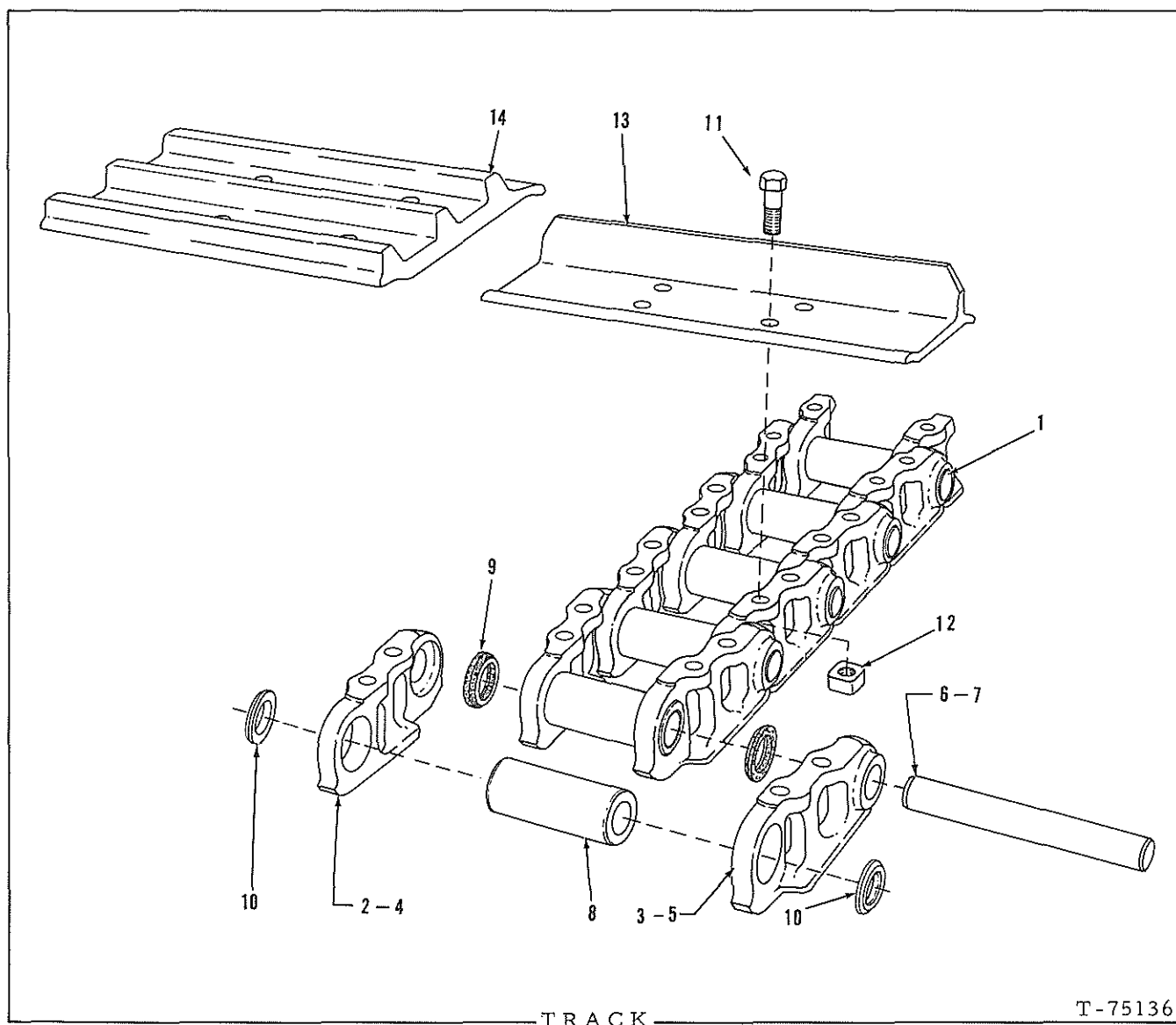


TRACK RELEASE

T-73574

TRACK RELEASE

ITEM	PART NO.	QTY.	DESCRIPTION
1	665110	2	YOKE ASSEMBLY (Includes items 2 thru 9)
2	666367	2	PLUG, yoke
3	666407	2	FITTING, pressurizing
4	628915	2	VALVE ASSEMBLY, check (Serviced only as a unit)
5	665115	2	RING, wear, release yoke
6	3045326	2	RING, snap
7	628914	2	SEAL, piston
8	665114	2	RING, wear, adjusting piston
9	665113	2	PISTON, adjusting
10	666597	2	BAR, push
11	923831	4	O-RING, crosshead
12	621204	2	CROSSHEAD
13	649761	2	GUIDE, crosshead
14	012984	12	CAPSCREW, 3/4"NF x 2-3/4"
15	012767	12	NUT, high, 3/4"NF
16	012526	6	CAPSCREW, 3/4"NF x 3"
	904369	6	LOCKWASHER, 3/4"
17	035250	4	PLUG, crosshead guide filling hole
18	667252	4	GASKET, crosshead guide filling hole plug
19	051786	2	GASKET, crosshead guide
20	051812	2	BLOCK, tapped, crosshead guide mounting
21	035712	4	CAPSCREW, 1/2"NC x 2-1/4"
	904208	4	LOCKWASHER, 1/2"
22	051799	2	PIN, bellcrank pivot
23	649763	2	PIN, front push rod
24	649765	2	ROD, push, front
25	649762	2	BELLCRANK
26	649763	2	PIN, rear push rod
27	649764	2	ROD, push, rear
28	051790	2	PLUNGER, spring
29	059179	2	SPRING, inner
30	051800	2	SPRING, outer
31	095529	2	SEAT, spring
32	064819	2	CAPSCREW, spring adjustment
33	051795	2	LOCK, spring adjustment capscREW
34	649766	2	GUIDE ASSEMBLY, crosshead (Consists of items 13, 22 thru 27)



* Standard (Sealed type)
** Special (Unsealed type)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	0667299-2	2	-	CHAIN ASSY. (40 links)(Consists of items 2 thru 9)
	0679324-4	-	2	CHAIN ASSY. (40 links)(Consists of items 2 thru 8 and 10)
2	0667263-8	78	78	LINK, left
3	0667264-6	78	78	LINK, right
4	0667435-2	2	2	LINK, master, left
5	0667436-0	2	2	LINK, master, right
6	0079601-1	78	78	PIN
7	0621294-8	2	2	PIN, master

(Continued)

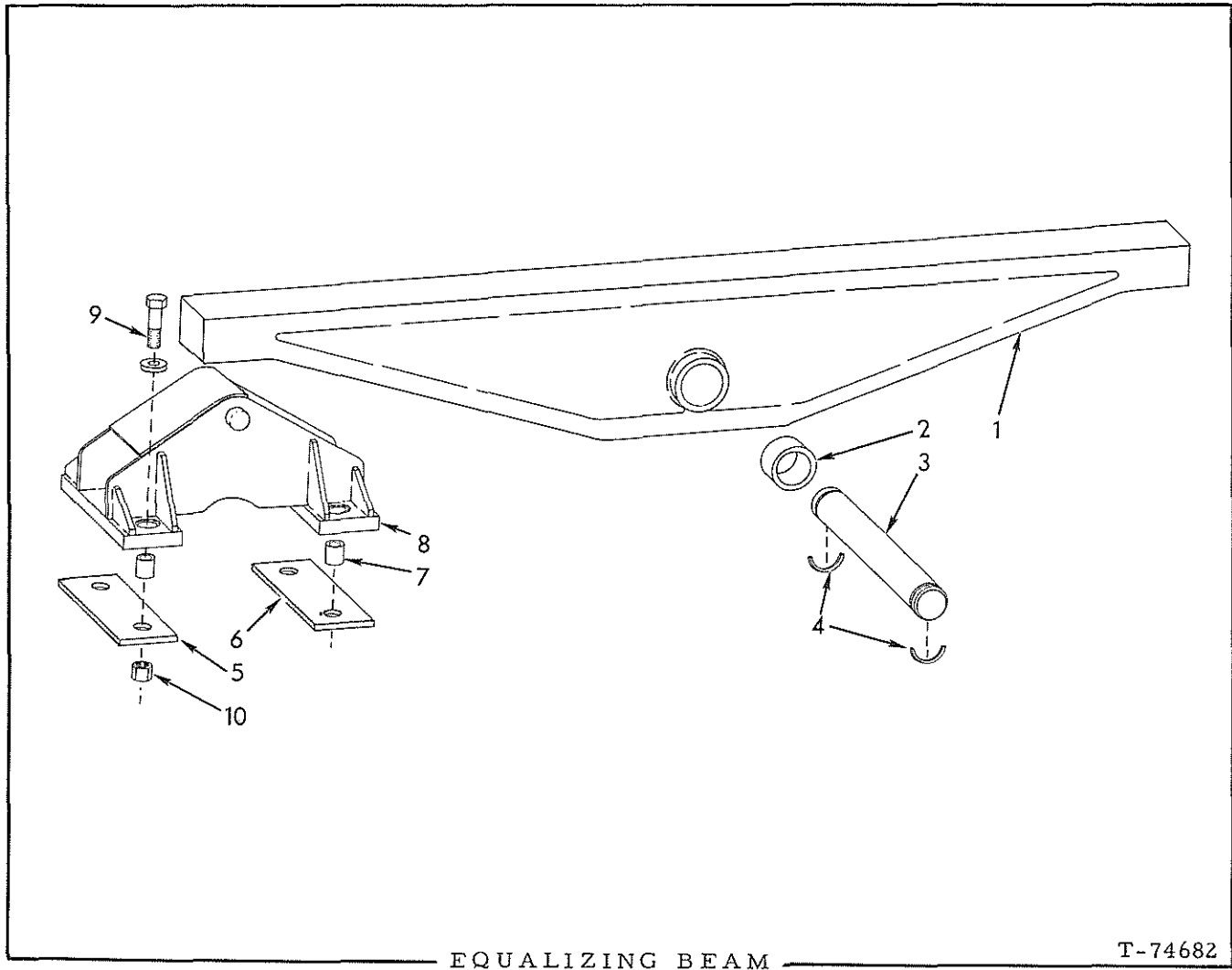
TRACK (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
8	{ 0667292-7	80 2	BUSHING
	{ 0679274-1	- 78	BUSHING
9	0667233-1	160 -	SEAL
10	0679275-8	- 4	SPACER
11	{ 0097056-6	320 320	BOLT, track shoe (2-5/8" long)
	{ 0097053-3	320 -	BOLT, track shoe (2-15/16" long)(For use with semi-grouser shoes only)
	{ 0655838-1	320 320	BOLT, track shoe (2-3/4" long)(For severe-service shoes only)
12	0663466-1	320 320	NUT, track shoe bolt

TRACK SHOES

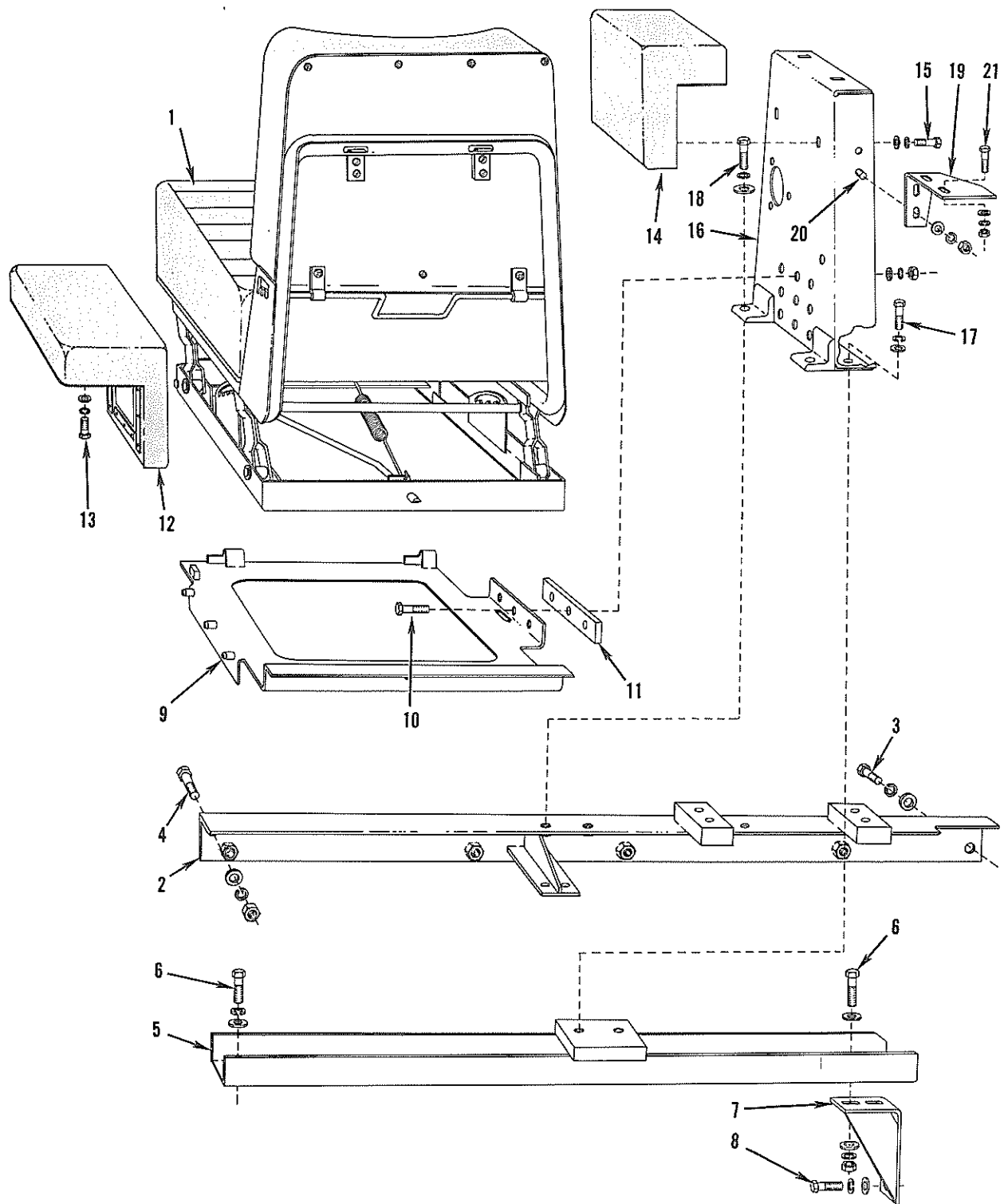
COMPLETE TRACK ASSEMBLIES WITH SHOES (2 Required)

					*	**
13	{ 0663563-5	80 80	SHOE, grouser, 22"	0667315-6 . . .	0679295-6	
	{ 0664005-6	80 80	SHOE, grouser, 22" (Severe-service)	0667347-9 . . .	0680227-6	
	{ 0663370-5	80 80	SHOE, grouser, 24"	0667300-8 . . .	0680229-4	
	{ 0663575-9	80 80	SHOE, grouser, 24" (Severe-service)	0667340-4 . . .	0679306-1	
	{ 0663552-8	80 80	SHOE, grouser, 26"	0667328-7 . . .	0680231-8	
	{ 0664009-8	80 80	SHOE, grouser, 26" (Severe-service)	0667350-3 . . .	0680235-9	
	{ 0663548-6	80 80	SHOE, grouser, 28"	0667331-3 . . .	0680233-4	
	{ 0663574-2	80 80	SHOE, grouser, 28" (Severe-service)	0667343-8 . . .	0680237-5	
14	0663596-5	80 -	SHOE, semi-grouser, 24" . . .	0667318-0		



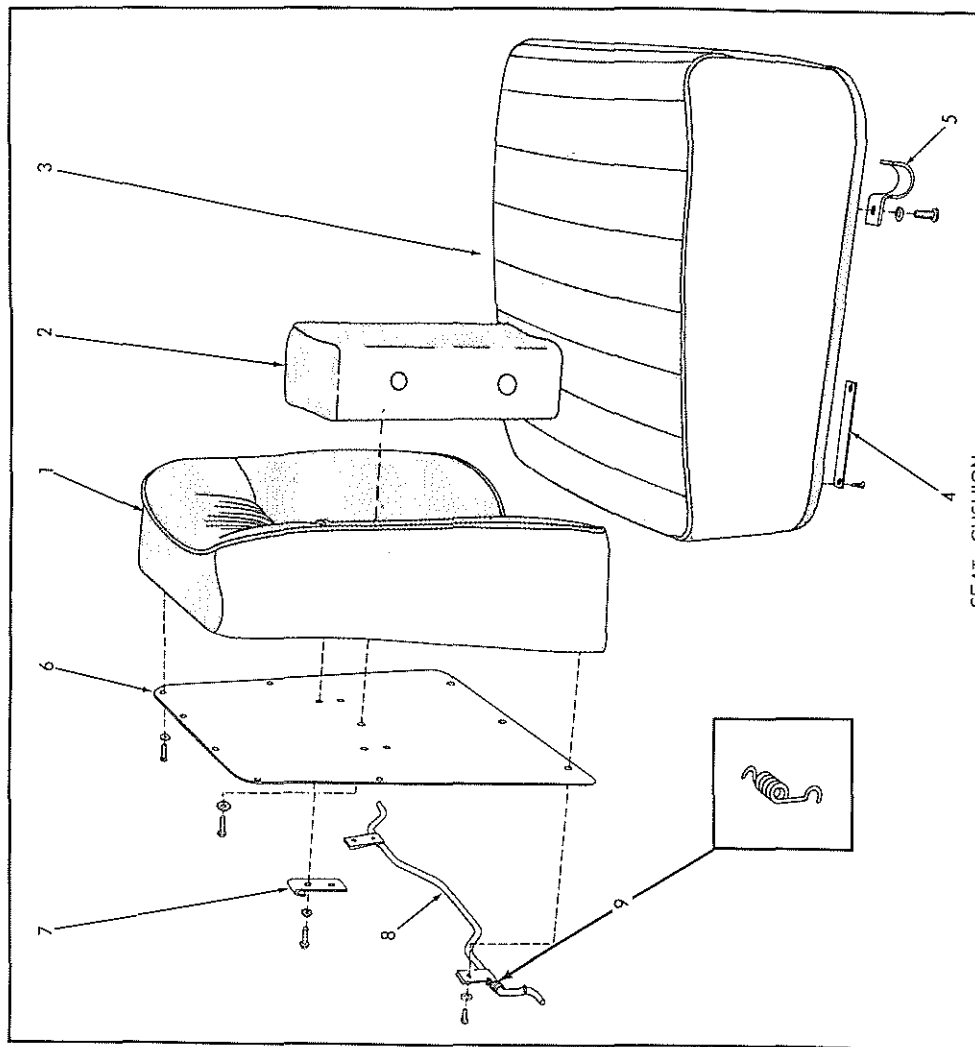
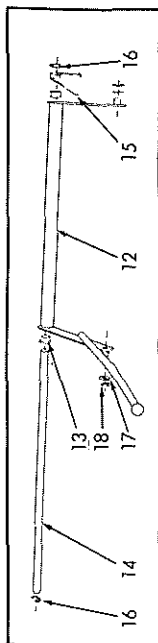
ITEM	PART NO.	QTY.	DESCRIPTION
1	662957	1	BEAM ASSEMBLY (Includes item 2)
2	052256	2	BUSHING, beam pivot
3	630032	1	PIN, beam pivot
4	630302	2	RING, pivot pin retaining
5	650770	2	PAD, shock, outer
6	662924	2	PAD, shock, inner
7	662897	8	BUSHING, bracket spacing
8	662940	2	BRACKET, shock pad
9	073424	8	CAPSCREW, 1"NF x 4"
	617611	8	WASHER, plain
10	600236	8	NUT, high, 1"NF

MEMO



SEAT

ITEM	PART NO.	QTY.	DESCRIPTION
1	659093	1	SEAT ASSEMBLY (See page 205 for parts)
2	660637	1	ANGLE, seat supporting, front
3	915987	1	CAPSCREW, 1/2"NC x 1-1/2"
4	916317	1	CAPSCREW, 1/2"NC x 2-3/4"
	911028	1	NUT, 1/2"NC
	064531	3	WASHER, plain
	904208	2	LOCKWASHER, 1/2"
5	661658	1	CHANNEL, seat supporting, rear
6	916313	3	CAPSCREW, 1/2"NC x 1-3/4"
	064531	5	WASHER, plain
	904208	3	LOCKWASHER, 1/2"
	911028	2	NUT, 1/2"NC
7	660680	1	BRACKET, channel supporting
8	916314	2	CAPSCREW, 1/2"NC x 2"
	904208	2	LOCKWASHER, 1/2"
	064531	2	WASHER, plain
9	666235	1	SUPPORT, seat
10	916313	3	CAPSCREW, 1/2"NC x 1-3/4"
	064531	3	WASHER, plain
	904208	3	LOCKWASHER, 1/2"
	911028	3	NUT, 1/2"NC
11	666240	1	PLATE, seat support spacing
12	632179	1	CUSHION, arm rest, left side
13	919331	4	CAPSCREW, 3/8"NF x 1" } Plated
	916965	4	LOCKWASHER, 3/8" }
	920743	4	WASHER, plain }
14	632188	1	CUSHION, arm rest, right side
15	919331	4	CAPSCREW, 3/8"NF x 1" } Plated
	916965	4	LOCKWASHER, 3/8" }
	920743	4	WASHER, plain }
16	660687	1	SUPPORT, right arm rest cushion
17	915987	2	CAPSCREW, 1/2"NC x 1-1/2"
18	916313	2	CAPSCREW, 1/2"NC x 1-3/4"
	904208	4	LOCKWASHER, 1/2"
	064531	4	WASHER, plain
19	660678	1	ANGLE, bracing, right arm rest support
20	916271	2	CAPSCREW, 3/8"NC x 1"
21	919225	2	CAPSCREW, 3/8"NC x 1-3/8"
	044973	6	WASHER, plain
	904206	4	LOCKWASHER, 3/8"
	911026	4	NUT, 3/8"NC
22	657564	1	BELT, safety (Special equipment. Not illustrated)



SEAT CUSHION

T-71877

SEAT ASSEMBLY 659093

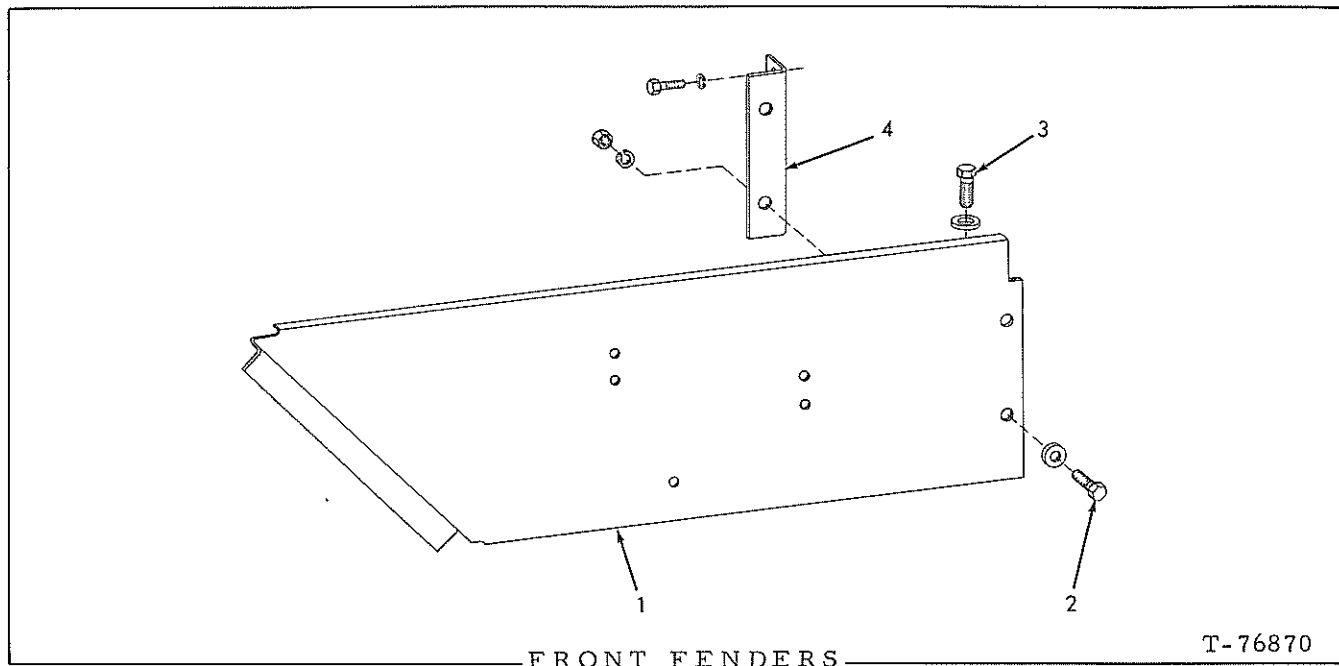
SEAT ASSEMBLY 659093

USAGE: See page 203

ITEM	PART NO.	QTY.	DESCRIPTION
1	638422	1	CUSHION, back (outside section)
	642499	1	COVER, slip, back cushion (Includes fastenings) (Not original equipment)
2	638421	1	CUSHION, back (center section)
	916532	2	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	2	LOCKWASHER, ext-tooth, 1/4"
	642498	1	COVER, slip, back cushion (Includes fastenings) (Not original equipment)
3	659102	1	CUSHION ASSEMBLY, seat (Includes item 4)
	642500	1	COVER, slip, seat cushion (Includes fastenings) (Not original equipment)
4	638431	2	PLATE, bearing, seat cushion
	-----	4	SCREW, wood, fl-hd., #8 x 1/2" (Procure locally)
5	638432	2	BRACKET, pivot, seat cushion
	916532	2	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	2	LOCKWASHER, ext-tooth, 1/4"
6	650143	1	PLATE, reinforcing, back cushion
	916532	6	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	6	LOCKWASHER, ext-tooth, 1/4"
7	650132	2	BRACKET, retaining, back cushion
	916532	4	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	4	LOCKWASHER, ext-tooth, 1/4"
8	650141	1	ROD ASSEMBLY, back cushion adjustment (Includes mounting clips)
	916532	2	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	2	LOCKWASHER, ext-tooth, 1/4"
9	650137	1	SPRING, back cushion adjustment rod
10	650144	1	FRAME, seat
11	650138	1	SPRING, retracting, seat frame
12	650142	1	LATCH, seat adjustment
13	650146	2	BEARING, seat adjustment latch
14	650136	1	SHAFT, seat adjustment latch
15	650135	1	SPRING, seat adjustment latch
16	638351	2	RING, snap, seat adjustment latch shaft
17	188436	2	WASHER, seat adjustment latch
18	650147	2	RING, snap, seat adjustment latch
19	650133	1	KNOB, seat adjustment latch
20	650139	4	LINK, suspension, seat frame
21	650131	6	PIN, seat frame suspension link
22	638351	12	RING, snap, suspension link pin
23	650145	1	FRAME ASSEMBLY, base (Includes items 24 and 25)
24	650140	1	ROD, seat release
	188436	1	WASHER, plain
	924169	2	PIN, groove, 1/8" x 1"
25	650134	1	SPRING, seat release rod

FLOOR
(Not Illustrated)

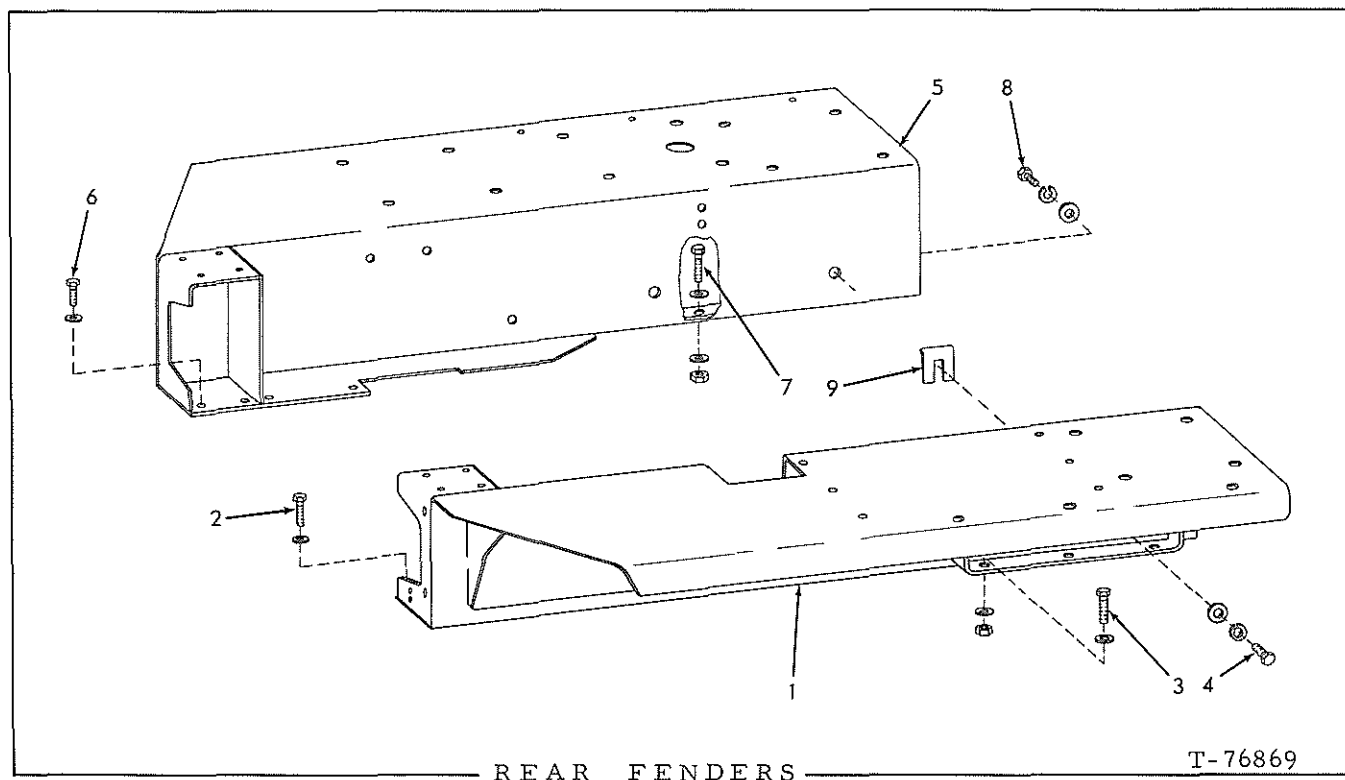
ITEM	PART NO.	QTY.	DESCRIPTION
1	655449	1	PLATE, left front
2	035733	5	CAPSCREW, 1/2"NC x 1-3/8"
	904208	5	LOCKWASHER, 1/2"
3	064531	5	WASHER, plain (1-1/8" O. D.)
4	654087	1	PLATE, right front (Standard)
	645229	1	PLATE, right front. Used on units equipped with special Air Cleaner Unloader Extension)
5	035733	4	CAPSCREW, 1/2"NC x 1-3/8"
	904208	4	LOCKWASHER, 1/2"
6	064531	4	WASHER, plain (1-1/8" O. D.)
7	660624	1	PLATE, left rear
8	035190	4	CAPSCREW, 1/2"NC x 1-1/2"
	904208	4	LOCKWASHER, 1/2"
9	092163	4	WASHER, plain (1-3/4" O. D.)
10	654080	1	PLATE, right rear
11	035190	5	CAPSCREW, 1/2"NC x 1-1/2"
	904208	5	LOCKWASHER, 1/2"
12	092163	5	WASHER, plain (1-3/4" O. D.)
13	654072	1	CHANNEL, supporting
14	035236	4	CAPSCREW, 1/2"NC x 1-3/4"
	904208	4	LOCKWASHER, 1/2"
15	665791	4	SHIM, channel spacing (1/32" thick. Use as required)
	665790	1	SHIM, channel spacing (1/8" thick. Use as required)



*Tractors prior to serial No. 16550; also tractor serial
No. 10S16551 thru 10S17001

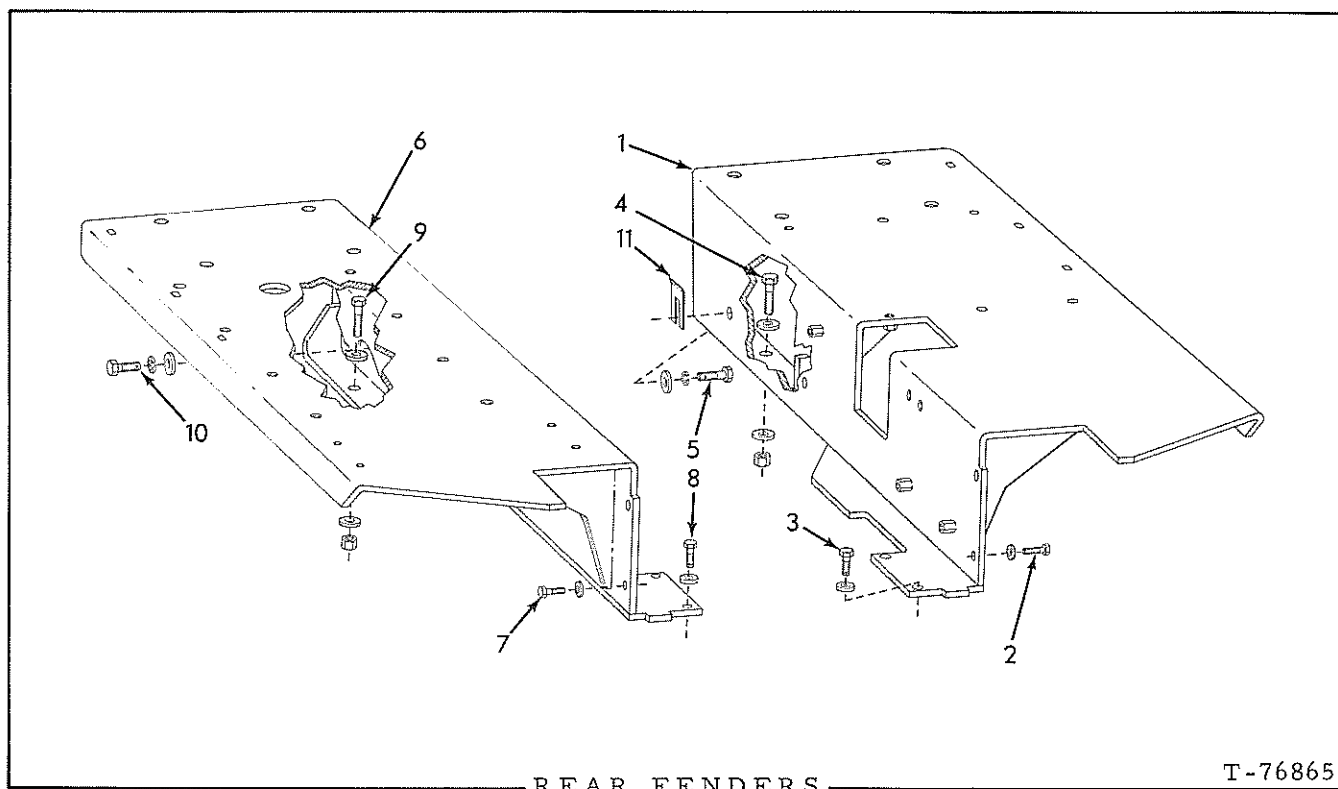
**Tractor serial No. 10S17001 and up

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	0660179-3	1	-	FENDER, left side
	0669387-3	-	1	FENDER, left side
	0660180-1	1	-	FENDER, right side
	0669388-1	-	1	FENDER, right side
2	0920583-2	4	4	CAPSCREW, 1/2"NC x 1-1/4"
	0677008-5	4	4	WASHER, plain
	0912441-3	4	4	LOCKWASHER, 1/2"
	0911028-9	4	4	NUT, 1/2"NC
3	0927519-9	6	6	CAPSCREW, Nylok, 5/8"NC x 1-3/4"
	0677010-1	6	6	WASHER, plain
4	0661082-8	2	-	ANGLE, fender bracing
	0669386-5	-	2	ANGLE, fender bracing
	0920583-2	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	0912441-3	4	4	LOCKWASHER, 1/2"



USAGE: Tractors prior to serial No. 10S17001

ITEM	PART NO.	QTY.	DESCRIPTION
1	0654020-7	1	FENDER, left side
2	0926774-1	4	CAPSCREW, Nylok, 5/8"NC x 1-3/4"
	0064810-5	4	WASHER, plain
3	0921171-5	3	CAPSCREW, 3/4"NF x 2-3/4"
4	0648717-7	2	CAPSCREW, Nylok, 3/4"NF x 2-1/4"
	0061689-6	2	WASHER, plain
	0677012-6	6	WASHER, plain
	0904369-6	2	LOCKWASHER, 3/4"
	0012767-0	3	NUT, 3/4"NF
5	0654688-1	1	FENDER, right side (For standard units or units equipped with hydraulic dozer)
	0654090-0	1	FENDER, right side (For units equipped with cable dozer)
6	0926774-1	4	CAPSCREW, Nylok, 5/8"NC x 1-3/4"
	0064810-5	4	WASHER, plain
7	0921171-5	3	CAPSCREW, 3/4"NF x 2-3/4"
8	0648717-7	2	CAPSCREW, Nylok, 3/4"NF x 2-1/4"
	0061689-6	2	WASHER, plain
	0677012-0	6	WASHER, plain
	0904369-6	2	LOCKWASHER, 3/4"
	0012767-0	3	NUT, 3/4"NF
9	0670430-8	-	SPACER, shimming (Use as required)

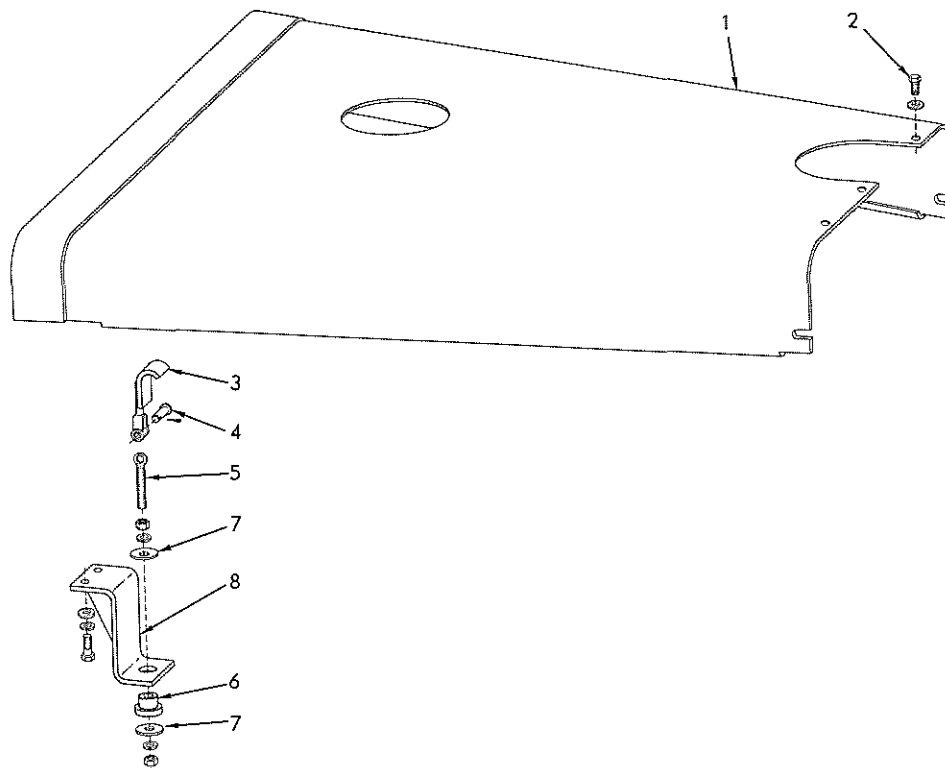


REAR FENDERS

T-76865

USAGE: Tractors serial No. 10S17001 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	0669536-5	1	FENDER, left side
2	0922509-5	2	CAPSCREW, Nylok, 1/2"NC x 1-3/4"
	0064531-7	2	WASHER, plain
3	0926774-1	2	CAPSCREW, Nylok, 5/8"NC x 1-3/4"
	0064810-5	2	WASHER, plain
4	0921171-5	3	CAPSCREW, 3/4"NF x 2-3/4"
5	0648717-7	2	CAPSCREW, Nylok, 3/4"NF x 2-1/4"
	0061689-6	2	WASHER, plain
	0677012-6	6	WASHER, plain
	0904369-6	2	LOCKWASHER, 3/4"
	0012767-0	3	NUT, 3/4"NF
6	0669544-9	1	FENDER, right side (For standard units or units equipped with hydraulic dozer)
	0669482-2	1	FENDER, right side (For units equipped with cable dozer)
7	0922509-5	2	CAPSCREW, Nylok, 1/2"NC x 1-3/4"
	0064531-7	2	WASHER, plain
8	0926774-1	2	CAPSCREW, Nylok, 5/8"NC x 1-3/4"
	0064810-5	2	WASHER, plain
9	0921171-5	3	CAPSCREW, 3/4"NF x 2-3/4"
10	0648717-7	2	CAPSCREW, Nylok, 3/4"NF x 2-1/4"
	0061689-6	2	WASHER, plain
	0677012-6	6	WASHER, plain
	0904369-6	2	LOCKWASHER, 3/4"
	0012767-0	3	NUT, 3/4"NF
11	0670430-8	-	SPACER, shimming (Use as required)



T-75147

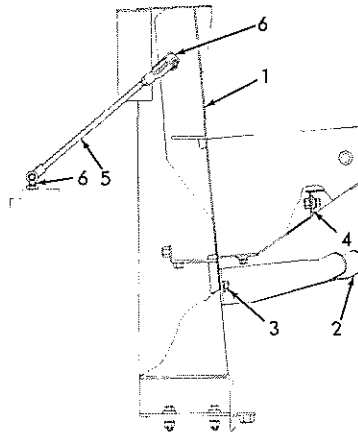
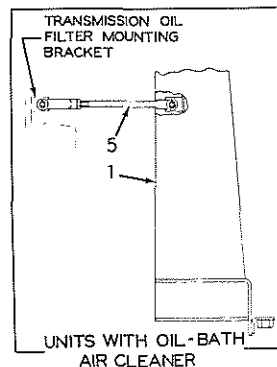
*Tractors prior to serial No. 16550; also tractor serial No. 10S16551 thru 10S18043

**Tractors serial No. 10S18044 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	0665680-5	1 **	HOOD, engine
	0679741-9	- 1	HOOD, engine
	0663594-0	1 -	HOOD, engine
	0679743-5	- 1	HOOD, engine
	0665809-0	1 -	HOOD, engine
	0679742-7	- 1	HOOD, engine
2	0097494-9	5 5	CAPSCREW, Nylok, 1/2" NC x 1"
	0092163-5	5 5	WASHER, plain
3	0664624-4	2 2	HOOK, hold-down
4	0917648-8	2 2	PIN, hold-down hook
	0900806-1	2 2	PIN, cotter
5	0668541-6	2 2	ROD, hold-down hook
	0904208-6	4 4	LOCKWASHER, 1/2"
	0911028-9	4 4	NUT, 1/2" NC
6	0642441-0	2 2	SNUBBER, vibration, hold-down
7	0628238-8	4 4	WASHER, snubber
8	0667475-8	2 2	BRACKET, mounting, hold-down
	0915987-2	4 4	CAPSCREW, 1/2" NC x 1-1/2"
	0904208-6	4 4	LOCKWASHER, 1/2"
	0064531-7	4 4	WASHER, plain

NOTE: See PAINTING AND MARKING for transfers

Replaces page 208 in HD-21 Series B parts catalog 0664645-9
Printed in U. S. A.



T-75146

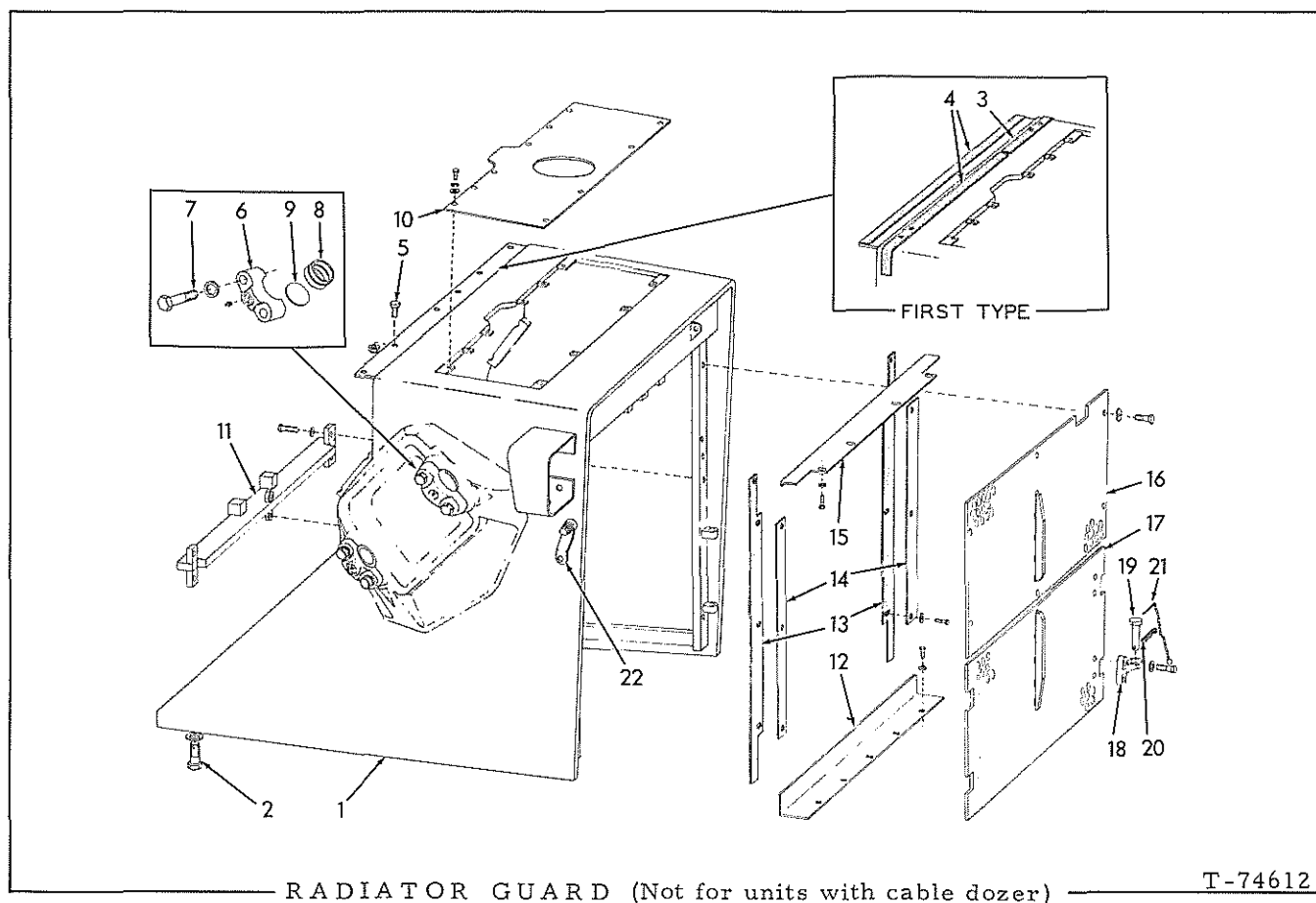
COWL

*Standard. Units with dry-type air cleaner

**Special. Units with oil-bath air cleaner

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	0658632-5	1 -	COWL
	0661772-5	- 1	COWL
	0669475-5	1 -	COWL
	0669890-6	- 1	COWL
	0673536-9	1 -	COWL
	0673542-8	- 1	COWL
	0920585-7	8 8	CAPSCREW, 1/2"NC x 1-3/4"
	0064531-7	8 8	WASHER, plain
	0912441-3	8 8	LOCKWASHER, 1/2"
	0911028-9	8 8	NUT, 1/2"NC (Tractors prior to unit # 17001)
2	0658139-1	1 -	REST, right foot
3	0035733-5	2 -	CAPSCREW, 1/2"NC x 1-3/8"
	0904208-6	2 -	LOCKWASHER, 1/2"
4	0656921-4	1 1	COVER, access
	0922763-8	2 2	CAPSCREW, 3/8"NC x 1"
	0910287-9	2 2	LOCKWASHER, 3/8"
	0044973-6	2 2	WASHER, plain
5	0667405-5	1 -	ROD, cowl bracing
	0661776-5	- 1	ROD, cowl bracing
	0913830-6	1 1	NUT, jam, 1/2"NF
	0917666-0	1 1	YOKE, rod end, adjustable, 1/2"NF
	0917648-8	2 2	PIN, yoke, 1/2" diam.
	0900806-1	2 2	PIN, cotter, 1/8" x 1"
6	0667406-3	2 -	ROD
	0911035-4	2 -	NUT, jam, 1/2"NC
	0912441-3	1 -	LOCKWASHER, 1/2"
	0911028-9	1 -	NUT, 1/2"NC

NOTE: See PAINTING AND MARKING for transfers

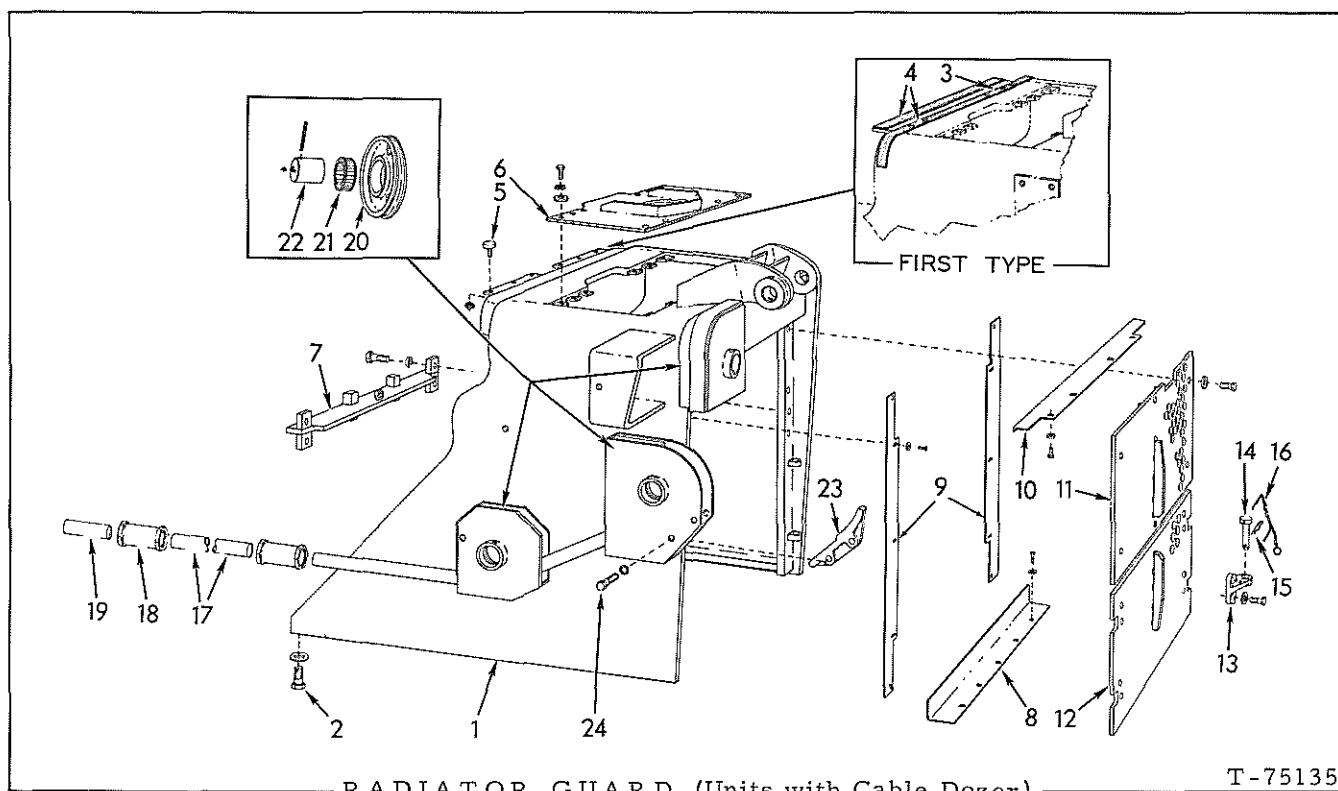


ITEM	PART NO.	QTY.	DESCRIPTION	
1	0669717-1	1	GUARD, radiator (Tractors prior to unit #17699)	For units without dozer
	0677989-6	1	GUARD, radiator (Tractors unit #17699 thru #18043)	
	0679769-0	1	GUARD, radiator (Tractors unit #18044 and up)	
	0669716-3	1	GUARD, radiator (Tractors prior to unit #17699)	Each includes items 6 and 7. For units with hydraulic dozer
	0677988-8	1	GUARD, radiator (Tractors unit #17699 thru #18043)	
	0679767-4	1	GUARD, radiator (Tractors unit #18044 and up)	
2	0926567-9	12	CAPSCREW, Nylok, 1-1/4"NC x 3"	
	0926208-0	12	WASHER, plain	
3	0667506-0	1	PAD, friction (plastic, 20" long)	See item 23. For tractors prior to unit #17699
4	0667507-8	2	PAD, friction (plastic, 40" long)	
5	0677885-6	7	BUTTON, bumper, hood	For tractor unit #17699 and up
	0917730-4	7	NUT, elastic stop, 1/4"NC	

(Continued)

RADIATOR GUARD (Not for units with cable dozer)(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
6	0085140-2	4	CAP, trunnion	} For GUARDS 0669716-3, 0677988-8 and 0679767-4
	0914465-0	4	FITTING, lubricating, straight, 1/8"NPT	
7	0036546-0	8	CAPSCREW, 1"NF x 4-1/4"	
	0910916-6	8	LOCKWASHER, 1"	
8	0084581-8	4	BUSHING, trunnion	
9	0084612-1	4	PLATE, retaining, trunnion bushing	
10	0669368-3	1	COVER, top closure	
	0922763-8	10	CAPSCREW, 3/8"NC x 1"	
	0910287-2	10	LOCKWASHER, 3/8"	
	0900817-8	10	WASHER, plain, U.S. std., 3/8"	
11	0667511-0	1	BAR, front closure plate supporting	
	0921556-9	4	CAPSCREW, 1/2"NC x 2"	
	0677008-5	4	WASHER, plain	
12	0663249-1	1	BAFFLE, air, lower	
	0921076-4	5	CAPSCREW, 3/8"NC x 1-1/4"	
	0677006-9	5	WASHER, plain	
13	0661955-5	2	BAFFLE, air, side (rubber)	
14	0668469-0	2	STRIP, re-enforcing, baffle	
	0921076-4	6	CAPSCREW, 3/8"NC x 1-1/4"	
	0677006-9	6	WASHER, plain	
15	0661137-0	1	BAFFLE, air, upper	
	0922763-8	4	CAPSCREW, 3/8"NC x 1"	
	0677006-9	4	WASHER, plain	
16	0667518-5	1	PLATE, front closure, upper	
	0926774-1	6	CAPSCREW, Nylok, 5/8"NC x 1-3/4"	
	0677010-1	6	WASHER, plain	
17	0667520-1	1	PLATE, front closure, lower	
18	0667159-8	4	BRACKET, hinge, bottom closure plate	
	0922509-5	8	CAPSCREW, Nylok, 1/2"NC x 1-3/4"	
	0677008-5	8	WASHER, plain	
19	0643124-1	4	PIN, hinge	
20	0920570-9	4	PIN, hinge pin retaining	
21	0643229-8	4	CHAIN ASSY., hinge pin (Serviced only as a unit)	
22	0660513-3	2	STRAP, cylinder tie-down (Used only when transporting tractor with dozer blade removed)	
	0919230-3	2	CAPSCREW, 1/2"NC x 1-3/8"	
	0904208-6	2	LOCKWASHER, 1/2"	
	0064531-7	2	WASHER, plain	
23	0667082-2	1	CEMENT, adhesive, 4 oz. can (Use to apply hood friction pads)	



RADIATOR GUARD (Units with Cable Dozer)

T-75135

ITEM	PART NO.	QTY.	DESCRIPTION
1	0669721-3	1	GUARD, radiator (Tractors prior to unit #17699)
	0677991-2	1	GUARD, radiator (Tractors unit #17699 thru #18043)
	0679768-2	1	GUARD, radiator (Tractors unit #18044 and up)
2	0926567-9	12	CAPSCREW, Nylok, 1-1/4"NC x 3"
	0926208-0	12	WASHER, plain
3	0667506-0	1	PAD, friction (plastic, 20" long)
4	0667507-8	2	PAD, friction (plastic, 40" long)
5	0677885-6	7	BUTTON, bumper, hood
	0917730-4	7	NUT, elastic stop 1/4"NC
6	0669368-3	1	COVER, top closure
	0922763-8	10	CAPSCREW, 3/8"NC x 1"
	0910287-2	10	LOCKWASHER, 3/8"
	0900817-8	10	WASHER, plain, U.S. std., 3/8"
7	0667511-0	1	BAR, front closure plate supporting
	0921556-7	4	CAPSCREW, 1/2"NC x 2"
	0677008-5	4	WASHER, plain
8	0663249-1	1	BAFFLE, air, lower
	0921076-6	5	CAPSCREW, 3/8"NC x 1-1/4"
	0677006-9	5	WASHER, plain
9	0661955-5	2	BAFFLE, air, side
	0921076-6	6	CAPSCREW, 3/8"NC x 1-1/4"
	0677006-9	6	WASHER, plain

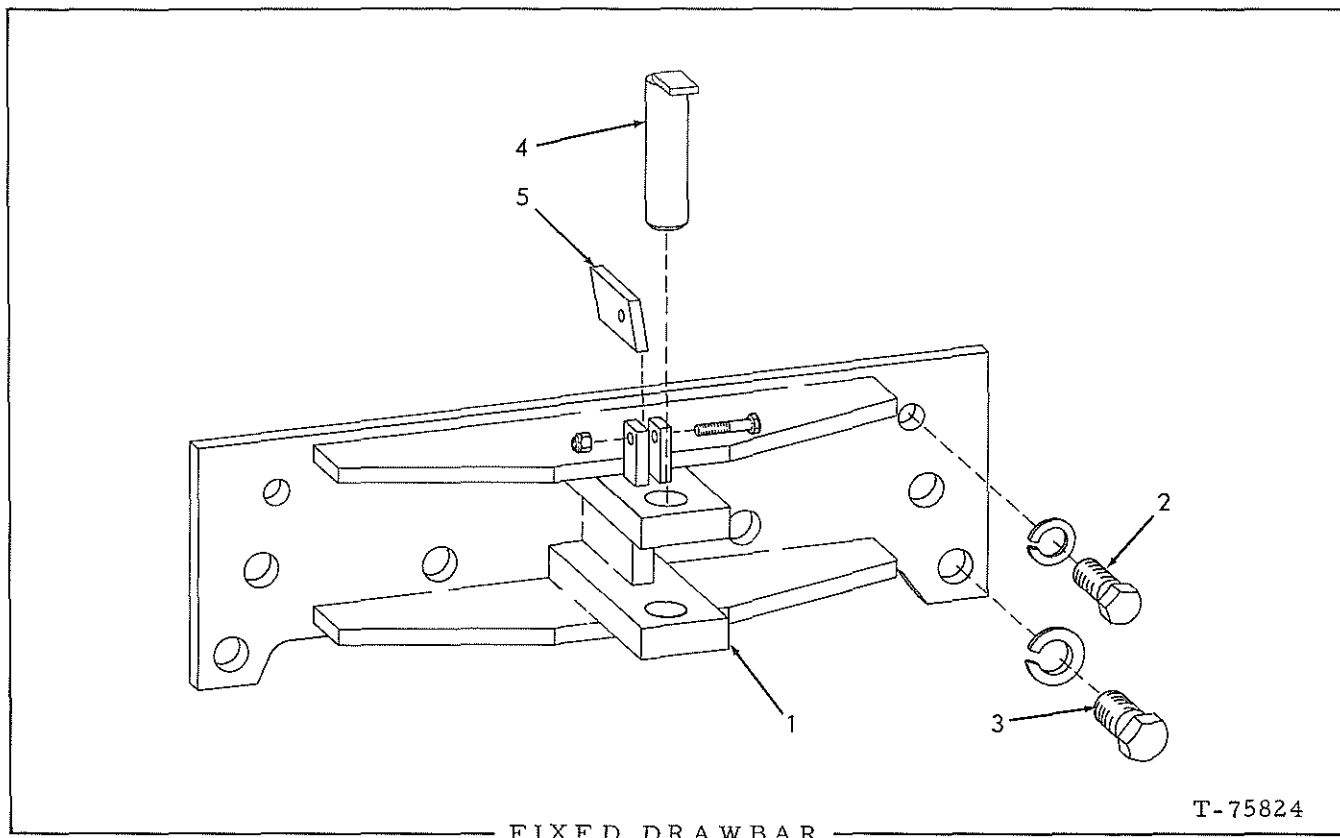
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Replaces page 212 in the HD21 Series B Parts Catalog 0664645-9
Printed in U.S.A.

(Revised October 1971)

RADIATOR GUARD (Units with Cable Dozer)(Continued)

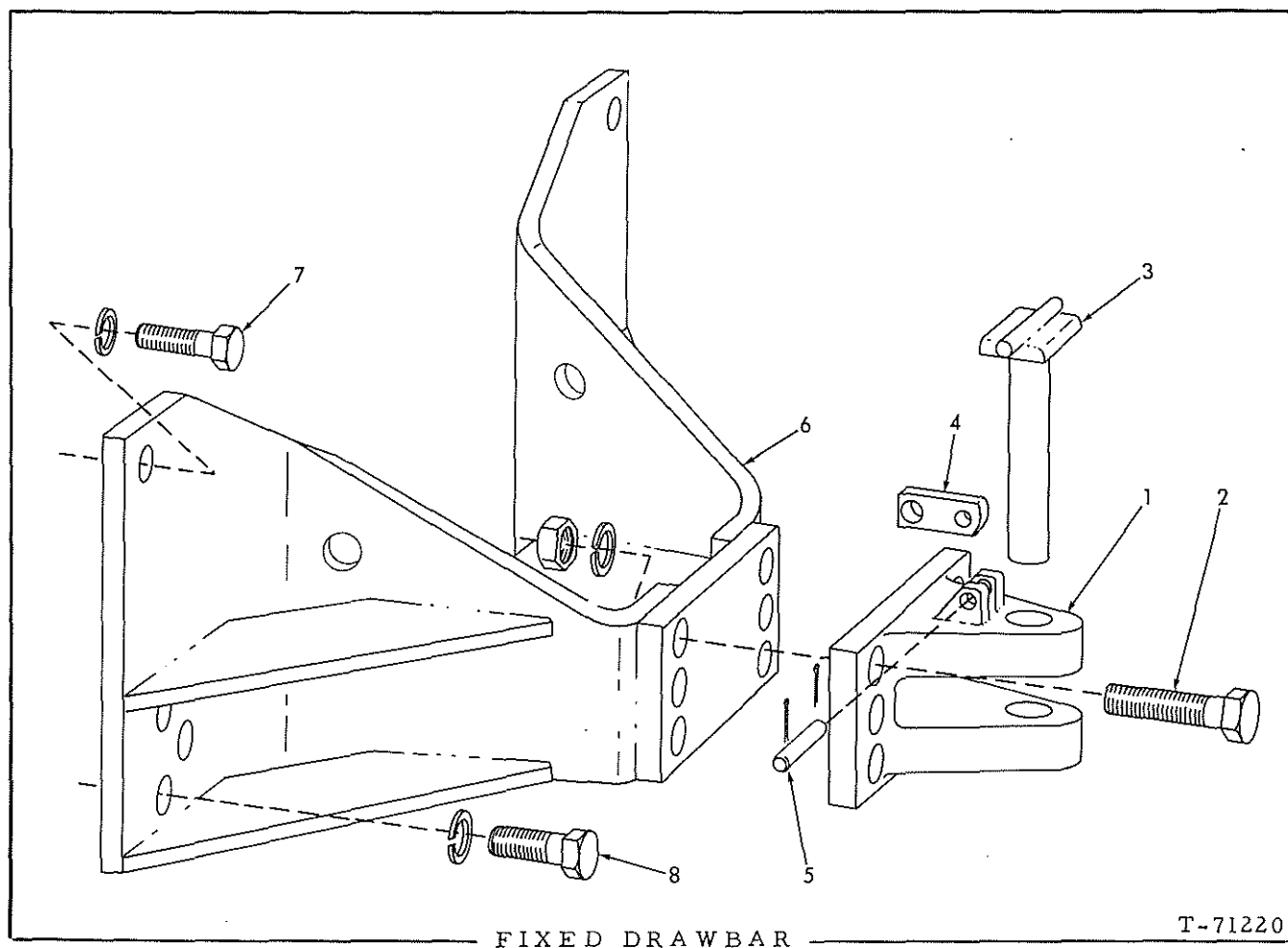
ITEM	PART NO.	QTY.	DESCRIPTION
10	0661137-0	1	BAFFLE, air, upper
	0922763-8	4	CAPSCREW, 3/8"NC x 1"
	0677006-9	4	WASHER, plain
11	0660845-9	1	PLATE, front closure, upper
	0926774-1	6	CAPSCREW, Nylok, 5/8"NC x 1-3/4"
	0677010-9	6	WASHER, plain
12	0660846-7	1	PLATE, front closure, lower
13	0667159-8	4	BRACKET, hinge, bottom closure plate
	0922509-5	8	CAPSCREW, Nylok, 1/2"NC x 1-3/4"
	0677008-5	8	WASHER, plain
14	0643124-1	4	PIN, hinge
15	0920570-9	4	PIN, hinge pin retaining
16	0643229-8	4	CHAIN ASSY., hinge pin (Serviced only as a unit)
17	0660177-7	1	PIPE, cable protecting (33" long)(Tractors prior to #17001)
	0669431-9	1	PIPE, cable protecting, front (31-3/4" long)(Tractors #17001 and up)
18	0665394-3	2	COUPLING ASSY., pipe (Includes nuts and seals)
19	0669430-1	1	PIPE, cable protecting, rear (11-3/4" long)(Tractors #17001 and up)
20	0084758-2	3	SHEAVE, control cable
21	0044875-3	3	BEARING, roller, cable sheave
22	0665364-6	3	SHAFT, sheave
	0917936-7	3	PIN, spring, 3/8" x 3-1/2"
	0914465-0	3	FITTING, lubricating, straight, 1/8"NPT
23	0084694-9	1	GUIDE, cable
24	0921174-9	2	CAPSCREW, 5/8"NC x 2-1/2"
	0912942-0	2	LOCKWASHER, 5/8"
25	0667082-2	1	CEMENT, adhesive, 4 oz. can (Use to apply hood friction pads)



USAGE: Standard equipment on tractors serial No. 10S17233 and up

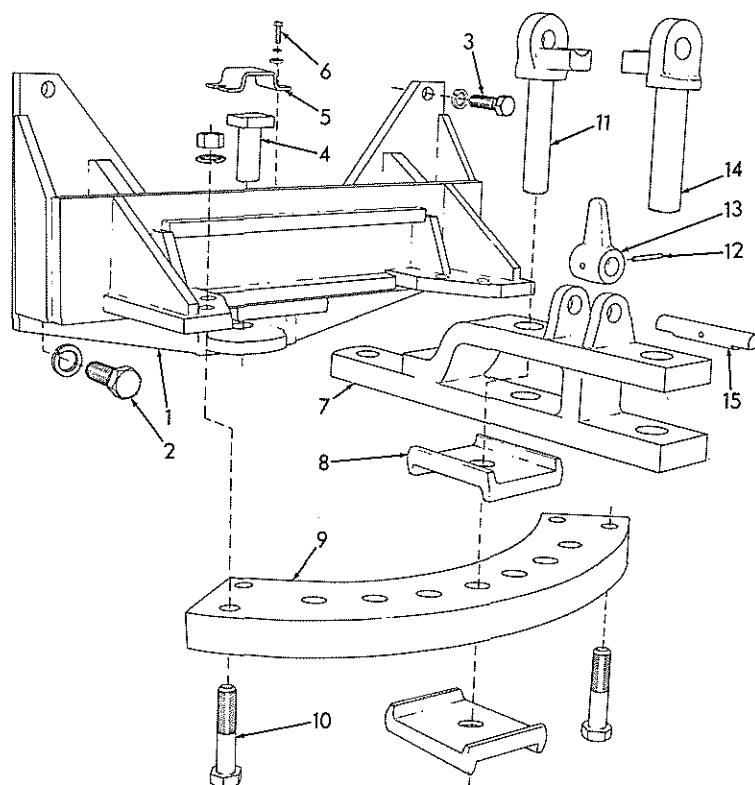
ITEM	PART NO.	QTY.	DESCRIPTION	
1	0674318-1	1	DRAWBAR	
2	0926856-6	2	CAPSCREW, 1-1/4"NF x 4"	} Not used when equipped with counterweight
	0914730-7	2	LOCKWASHER, 1-1/4"	
3	0926857-4	4	CAPSCREW, 1-1/2"NF x 4"	
	0912603-8	4	LOCKWASHER, 1-1/2"	
4	00674320-7	1	PIN, coupling	
5	0674321-5	1	PLATE, pin retaining	
	0922526-9	1	CAPSCREW, 1/2"NC x 2-1/2"	
	0915972-4	1	NUT, elastic stop, 1/2"NC	





USAGE: Standard equipment on Tractors prior to serial No. 10S17233 and optional equipment thereafter.

ITEM	PART NO.	QTY.	DESCRIPTION
1	0098837-8	1	BRACKET, coupling
2	0648331-7	6	CAPSCREW, 1-1/2"NF x 6-1/4"
	0913077-4	6	LOCKWASHER, 1-1/2"
	0916555-6	6	NUT, 1-1/2"NF
3	0633674-7	1	PIN, drawbar
4	0629697-2	1	BLOCK, retaining, drawbar pin
5	0629698-2	1	PIN, retaining block
	0900806-1	2	PIN, cotter, 1/8" x 1"
6	0633675-4	1	BRACKET, supporting
7	0926856-6	4	CAPSCREW, 1-1/4"NF x 4"
	0904210-2	4	LOCKWASHER, 1-1/4"
8	0625383-5	4	CAPSCREW, 1-1/2"NF x 4"
	0913077-4	4	LOCKWASHER, 1-1/2"



SWINGING DRAWBAR

T-71875

USAGE: Optional equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	648683	1	BRACKET, mounting
2	629966	2	CAPSCREW, 1-1/2"NF x 4-1/4"
	913077	2	LOCKWASHER, 1-1/2"
3	052361	6	CAPSCREW, 1-1/4"NF x 4"
	904210	6	LOCKWASHER, 1-1/4"
4	056995	1	PIN, hinge
5	052155	1	PLATE, hinge pin retaining
6	035018	2	CAPSCREW, 1/2"NF x 1-1/2"
	904208	2	LOCKWASHER, 1/2"
	064531	2	WASHER, plain
7	648643	1	DRAWBAR
8	648652	2	SHOE, wear
9	648646	1	PLATE, drawbar supporting
10	098266	4	CAPSCREW, 1-1/4"NF x 5-5/8"
	904210	4	LOCKWASHER, 1-1/4"
	913097	4	NUT, 1-1/4"NF
11	052366	1	PIN, drawbar locking
12	052159	1	PIN, locking arm
13	052069	1	ARM, locking, drawbar pins
14	052367	1	PIN, drawbar coupling
15	052060	1	SHAFT, locking arm

PAINTING AND MARKING
(Not Illustrated)

ITEM PART NO. QTY. DESCRIPTION

NOTE: Approximately 6 gallons paint required for spraying

1	925109	-	ENAMEL, A-C yellow, quart can
2	925110	-	ENAMEL, A-C yellow, gallon can
3	925108	-	ENAMEL, A-C yellow, 12 oz. pressurized spray-type can

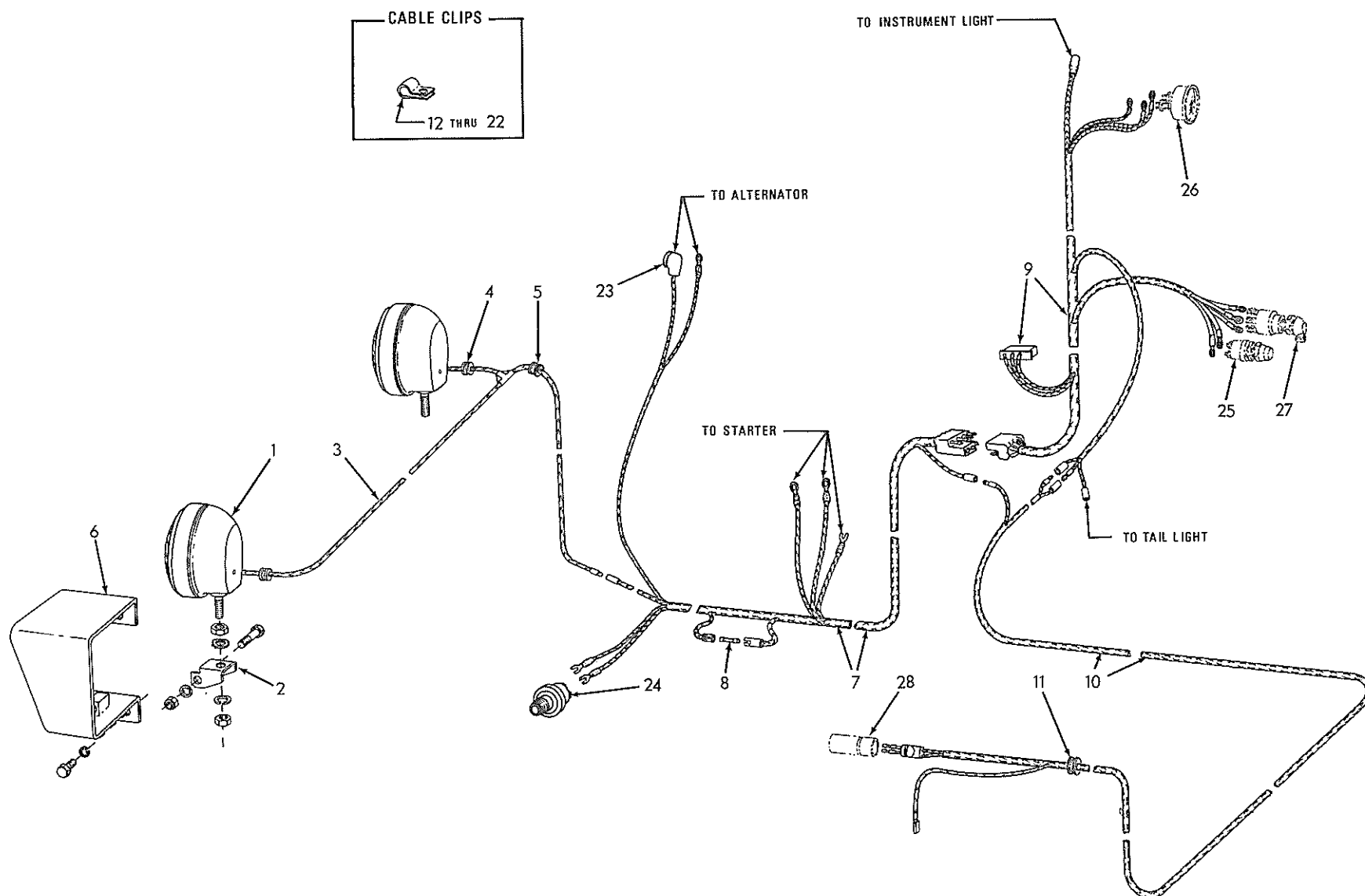
NOTE: All plates and transfers listed below are English language printings unless otherwise indicated.

4	{	664188	1	PLATE, lubrication and service guide (7" x 10")	} Attached to side of battery box
		664189	1	PLATE, lubrication and service guide (multi-language, 7" x 12-7/8")	
		034076	4	SCREW, thd. -cutting, cross-recessed-hd., #8 x 1/2" (2 additional required for multi-language plate)	
5	667207	1	PLATE, warning, automatic brake (3-1/8" x 4") (Attached to top of steering lever housing)		
	034076	4	SCREW, thd-cutting, cross-recessed-hd., #8 x 1/2"		
6	621357	1	TRANSFER, lubrication certification (3-7/8" x 6-3/4") (Applied to front of battery box)		
7	650587	1	TRANSFER, turbocharger altitude warning (1-3/4" x 3-1/2") (Applied to top of steering lever housing)		
8	666497	1	TRANSFER, instruction, engine operation (2-1/4" x 4-1/2") (Applied to top of steering lever housing)		
9	644616	1	TRANSFER, instruction, 1st stage fuel filter (1-3/4" x 2-1/4") (Applied to filter)		
10	644619	1	TRANSFER, instruction, 2nd stage fuel filter (1-3/4" x 2-1/4") (Applied to filter)		
11	621343	2	TRANSFER, instruction, oil filter (2-5/16" x 3-1/4") (Applied to engine oil filter)		
12	{	659539	1	TRANSFER, warning, by-pass oil filter (Includes Portuguese translation, 2" x 10") (Applied to FILTER ASSEMBLY 4390593)	}
		659538	1	TRANSFER, warning, by-pass oil filter (French and Spanish translations, 2" x 10") (Applied to FILTER ASSEMBLY 4390593)	
13	632226	2	TRANSFER, instruction, steering pressure line oil filter (1-3/4" x 2-1/4") (Applied to filters)		
14	644534	1	TRANSFER, instruction, transmission oil filter (1-3/4" x 2-1/4") (Applied to filter)		
15	621342	1	TRANSFER, instruction, engine primer (1-3/4" x 6") (Applied to dash)		
16	659160	1	TRANSFER, instruction, dry-type air cleaner (Applied to cleaner air inlet tube)		
17	656642	1	TRANSFER, instruction, oil-bath air cleaner (1-1/2" x 3-3/4") (Applied to cleaner)		

(Continued)

PAINTING AND MARKING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
18	665147	1	TRANSFER, instruction, coolant filter (2-3/4" x 3-1/2")(Applied to filter)
19	661227	3	TRANSFER, "HD 21" (Applied to rear of fuel tank, sides of battery box and sides of hydraulic tank or tool box)
20	666405	3	TRANSFER, "SERIES B" (1-1/4" x 8-1/8")(Applied to rear of fuel tank, sides of battery box and sides of hydraulic tank or tool box)
21	925158	2	TRANSFER, "21000-Mark II Power" (2" x 7-3/4")(Applied to sides of radiator guard)
22	924552	2	TRANSFER, "ALLIS-CHALMERS" (2-3/8" x 39")(Applied to sides of hood)
23	924550	1	TRANSFER, "ALLIS-CHALMERS" (1-7/8" x 30")(Applied to front of radiator guard)
24	924555	1	TRANSFER, "ALLIS-CHALMERS" (3-3/8" x 55")(Applied to rear of fuel tank)
25	{ 924320	1	TRANSFER, trademark (6-3/4", orange and black)
	{ 924541	1	TRANSFER, trademark (6-3/4", white)(Optional)
			} Applied to rear of fuel tank
26	{ 924306	2	TRANSFER, trademark (7-3/4", orange and black)
	{ 924463	2	TRANSFER, trademark (7-3/4", white)(Optional)
			} Applied to sides of radiator guard



LIGHTS AND WIRING

△ Units with standard 20 amp. alternator

△△ Units with optional 50 amp. alternator

ITEM	PART NO.	QTY.	DESCRIPTION	
		△ △△		
1	0621429-0	2	2 * LIGHT ASSY., head (See page 221 for parts)	
	0910210-2	2	2 LOCKWASHER, ext-tooth, 1/2"	
	0904208-6	2	2 LOCKWASHER, regular, 1/2"	
	0911043-8	2	2 NUT, 1/2"NF	
	0669792-4	2	2 SPACER, head lights	
2	0076140-3	2	2 * BRACKET, head light mounting	} Tractors prior to unit #17001
	0916903-8	2	2 CAPSCREW, 5/8"NC x 3-1/2"	
	0904209-4	2	2 LOCKWASHER, 5/8"	
	0911029-7	2	2 NUT, 5/8"NC	
3	0659417-7	1	1 * CABLE, head light	
4	{ 0926068-8	2	2 * GROMMET, head light cable (large)(Tractors prior to unit #17001)	
	{ 0087855-3	2	2 * GROMMET, head light cable (large)(Tractors unit #17001 and up)	
5	0083987-8	1	1 * GROMMET, head light cable (small)	} Tractors prior to unit #17001
6	{ 0652591-9	1	1 * GUARD, left head light	
	{ 0652592-7	1	1 * GUARD, right head light	
	0916308-0	6	6 CAPSCREW, 1/2"NC x 7/8"	
	0904208-6	6	6 LOCKWASHER, 1/2"	
7	{ 0667626-6	1	- HARNESS, wiring, front section	} Each includes item 8
	{ 0667572-2	-	1 HARNESS, wiring, front section	
	0917376-6	1	1 NUT, #12NC (Attaches harness to alternator)	
8	0208960-5	1	1 FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes	
9	{ 0664959-4	1	- HARNESS, wiring, intermediate section	} Not Illustrated
	{ 0667571-4	-	1 HARNESS, wiring, intermediate section	
	{ 0653645-2	-	1 HARNESS, alternator and starter to ammeter, front section	
	0667573-0	-	1 HARNESS, alternator and starter to ammeter, rear section	
10	0660218-9	1	1 HARNESS, wiring, rear section	
11	0098372-6	1	1 GROMMET, rear wiring harness	
12	0639388-8	7	7 *CLIP, rear wiring harness (5/16" diam., 9/32" bolt-hole)	
	0915408-9	3	3 CAPSCREW, 3/8"NF x 3/4"	
	0904206-0	3	3 LOCKWASHER, 3/8"	
	0911115-4	3	3 WASHER, plain, SAE std., 3/8"	
13	0640674-8	1	1 CLIP, rear wiring harness 5/16" diam., 9/32" bolt-hole)	
14	0640676-3	2	2 CLIP, wiring harness (5/16" diam., 13/32" bolt-hole)	
	0916268-6	1	1 CAPSCREW, 3/8"NC x 5/8"	
	0911115-4	2	2 WASHER, plain, SAE std., 3/8"	
	0904206-0	1	1 LOCKWASHER, 3/8"	
15	0644006-9	-	1 CLIP, front wiring harness (9/16" diam., 17/32" bolt-hole)	

(Continued)

LIGHTS AND WIRING (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		Δ	ΔΔ	
16	637741	-	1	CLIP, front wiring harness (5/8" diam., 17/32" bolt-hole)
	916310	-	1	CAPSCREW, 1/2"NC x 1"
	904208	-	1	LOCKWASHER, 1/2"
	910244	-	1	WASHER, plain, SAE std., 1/2"
17	639314	1	-	CLIP, wiring harness (3/8" diam., 13/32" bolt-hole)
	915408	2	-	CAPSCREW, 3/8"NC x 3/4"
	904206	2	-	LOCKWASHER, 3/8"
	911026	2	-	NUT, 3/8"NC
	911115	2	-	WASHER, plain, SAE std., 3/8"
18	640675	1	-	CLIP, front wiring harness (3/8" diam., 17/32" bolt-hole)
	916310	1	-	CAPSCREW, 1/2"NC x 1"
	904208	1	-	LOCKWASHER, 1/2"
	910244	1	-	WASHER, plain, SAE std., 1/2"
19	094527	4	2	CLIP, wiring harness (1/2" diam., 13/32" bolt-hole)
	916268	2	2	CAPSCREW, 3/8"NC x 5/8"
	904206	2	2	LOCKWASHER, 3/8"
	911115	3	2	WASHER, plain, SAE std., 3/8"
20	624508	1	-	CLIP, front wiring harness (1/2" diam., 17/32" bolt-hole)
	916310	1	-	CAPSCREW, 1/2"NC x 1"
	904208	2	1	LOCKWASHER, 1/2"
	910244	1	-	WASHER, plain, SAE std., 1/2"
21	094422	3	9	CLIP, wiring harness (5/8" diam., 13/32" bolt-hole)
	916268	2	2	CAPSCREW, 3/8"NC x 5/8"
	904206	2	2	LOCKWASHER, 3/8"
	911115	2	2	WASHER, plain, SAE std., 3/8"
	915343	-	1	CAPSCREW, 1/4"NC x 5/8"
	900816	-	1	WASHER, plain, U.S. std., 1/4"
	904204	-	1	LOCKWASHER, 1/4"
	911024	-	1	NUT, 1/4"NC
22	659422	1	-	CLIP, wiring harness (3/8" diam., 17/32" bolt-hole)
23	667579	1	1	BOOT, protecting, alternator terminal
24	660694	1	1	SWITCH, pressure, alternator cut-off
25	-----	-	-	SWITCH, starter (See INSTRUMENTS)
26	-----	-	-	AMMETER (See INSTRUMENTS)
27	-----	-	-	SWITCH, lights (See INSTRUMENTS)
28	-----	-	-	SWITCH, safety (See SPEED CONTROL LINKAGE)

*Special Equipment

LIGHTS AND WIRING

△ Units with standard 20 amp. alternator
 △△ Units with optional 50 amp. alternator

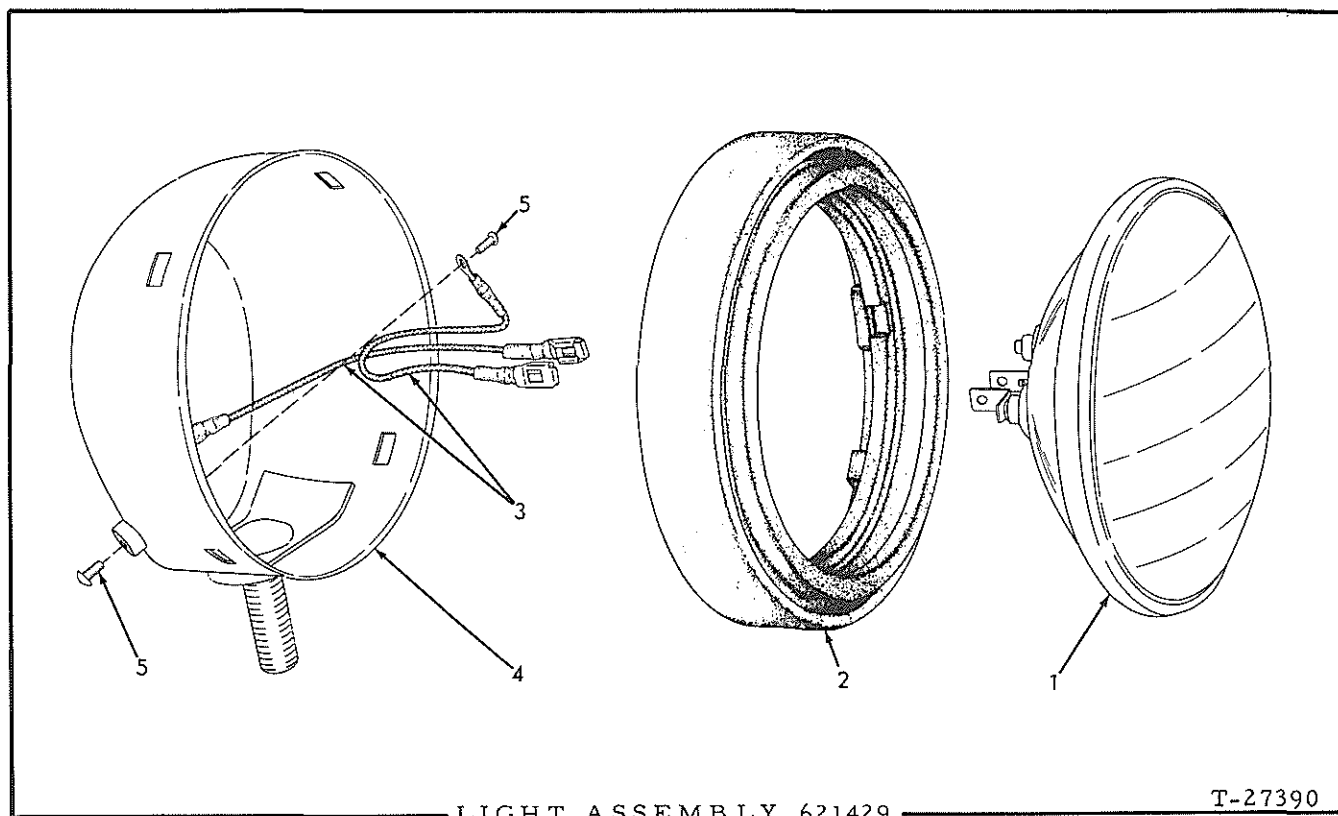
ITEM	PART NO.	QTY.		DESCRIPTION	
		△	△△		
1	621429	2	2	*LIGHT ASSY., head (See page 221 for parts)	
	910210	2	2	LOCKWASHER, ext-tooth, 1/2"	
	904208	2	2	LOCKWASHER, regular, 1/2"	
	911043	4	4	NUT, 1/2"NF	
2	076140	2	2	*BRACKET, head light mounting	
	916903	2	2	CAPSCREW, 5/8"NC x 3-1/2"	
	904209	2	2	LOCKWASHER, 5/8"	
	911029	2	2	NUT, 5/8"NC	
3	659417	1	1	*CABLE, head light	
4	926068	2	2	*GROMMET, head light cable (large)	
5	083987	1	1	*GROMMET, head light cable (small)	
6	652591	1	1	*GUARD, left head light	
	652592	1	1	*GUARD, right head light	
	916308	6	6	CAPSCREW, 1/2"NC x 7/8"	
	904208	6	6	LOCKWASHER, 1/2"	
7	667626	1	-	HARNESS, wiring, front section	Each includes item 8
	667572	-	1	HARNESS, wiring, front section	
8	208960	1	1	FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes	
9	664959	1	-	HARNESS, wiring, intermediate section	Not illustrated
	667571	-	1	HARNESS, wiring, intermediate section	
	653645	-	1	HARNESS, alternator and starter to ammeter, front section	
	667573	-	1	HARNESS, alternator and starter to ammeter, rear section	
10	660218	1	1	HARNESS, wiring, rear section	
11	098372	1	1	GROMMET, rear wiring harness	
12	639388	7	7	*CLIP, head light cables (1/8" diam., 13/32" bolt-hole)	
	915408	3	3	CAPSCREW, 3/8"NF x 3/4"	
	904206	3	3	LOCKWASHER, 3/8"	
	911115	3	3	WASHER, plain, SAE std., 3/8"	
13	640674	1	1	CLIP, rear wiring harness (5/16" diam., 9/32" bolt-hole)	
14	640676	2	2	CLIP, wiring harness (5/16" diam., 13/32" bolt-hole)	
	916268	1	1	CAPSCREW, 3/8"NC x 5/8"	
	911115	2	2	WASHER, plain, SAE std., 3/8"	
	904206	1	1	LOCKWASHER, 3/8"	
15	644006	-	1	CLIP, front wiring harness (9/16" diam., 17/32" bolt-hole)	

(Continued)

LIGHTS AND WIRING (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		Δ	ΔΔ	
16	637741	-	1	CLIP, front wiring harness (5/8" diam., 17/32" bolt-hole)
	916310	-	1	CAPSCREW, 1/2"NC x 1"
	904208	-	1	LOCKWASHER, 1/2"
	910244	-	1	WASHER, plain, SAE std., 1/2"
17	639314	1	-	CLIP, wiring harness (3/8" diam., 13/32" bolt-hole)
	915408	2	-	CAPSCREW, 3/8"NC x 3/4"
	904206	2	-	LOCKWASHER, 3/8"
	911026	2	-	NUT, 3/8"NC
	911115	2	-	WASHER, plain, SAE std., 3/8"
18	640675	1	-	CLIP, front wiring harness (3/8" diam., 17/32" bolt-hole)
	916310	1	-	CAPSCREW, 1/2"NC x 1"
	904208	1	-	LOCKWASHER, 1/2"
	910244	1	-	WASHER, plain, SAE std., 1/2"
19	094527	4	2	CLIP, wiring harness (1/2" diam., 13/32" bolt-hole)
	916268	2	2	CAPSCREW, 3/8"NC x 5/8"
	904206	2	2	LOCKWASHER, 3/8"
	911115	3	2	WASHER, plain, SAE std., 3/8"
20	624508	1	-	CLIP, front wiring harness (1/2" diam., 17/32" bolt-hole)
	916310	1	-	CAPSCREW, 1/2"NC x 1"
	904208	2	1	LOCKWASHER, 1/2"
	910244	1	-	WASHER, plain, SAE std., 1/2"
21	094422	3	9	CLIP, wiring harness (5/8" diam., 13/32" bolt-hole)
	916268	2	2	CAPSCREW, 3/8"NC x 5/8"
	904206	2	2	LOCKWASHER, 3/8"
	911115	2	2	WASHER, plain, SAE std., 3/8"
	915343	-	1	CAPSCREW, 1/4"NC x 5/8"
	900816	-	1	WASHER, plain, U.S. std., 1/4"
	904204	-	1	LOCKWASHER, 1/4"
	911024	-	1	NUT, 1/4"NC
22	659422	1	-	CLIP, wiring harness (3/8" diam., 17/32" bolt-hole)
23	667579	1	1	BOOT, protecting, alternator terminal
24	660694	1	1	SWITCH, pressure, alternator cut-off
25	-----	-	-	SWITCH, starter (See INSTRUMENTS)
26	-----	-	-	AMMETER (See INSTRUMENTS)
27	-----	-	-	SWITCH, lights (See INSTRUMENTS)
28	-----	-	-	SWITCH, safety (See SPEED CONTROL LINKAGE)

*Special Equipment



LIGHT ASSEMBLY 621429

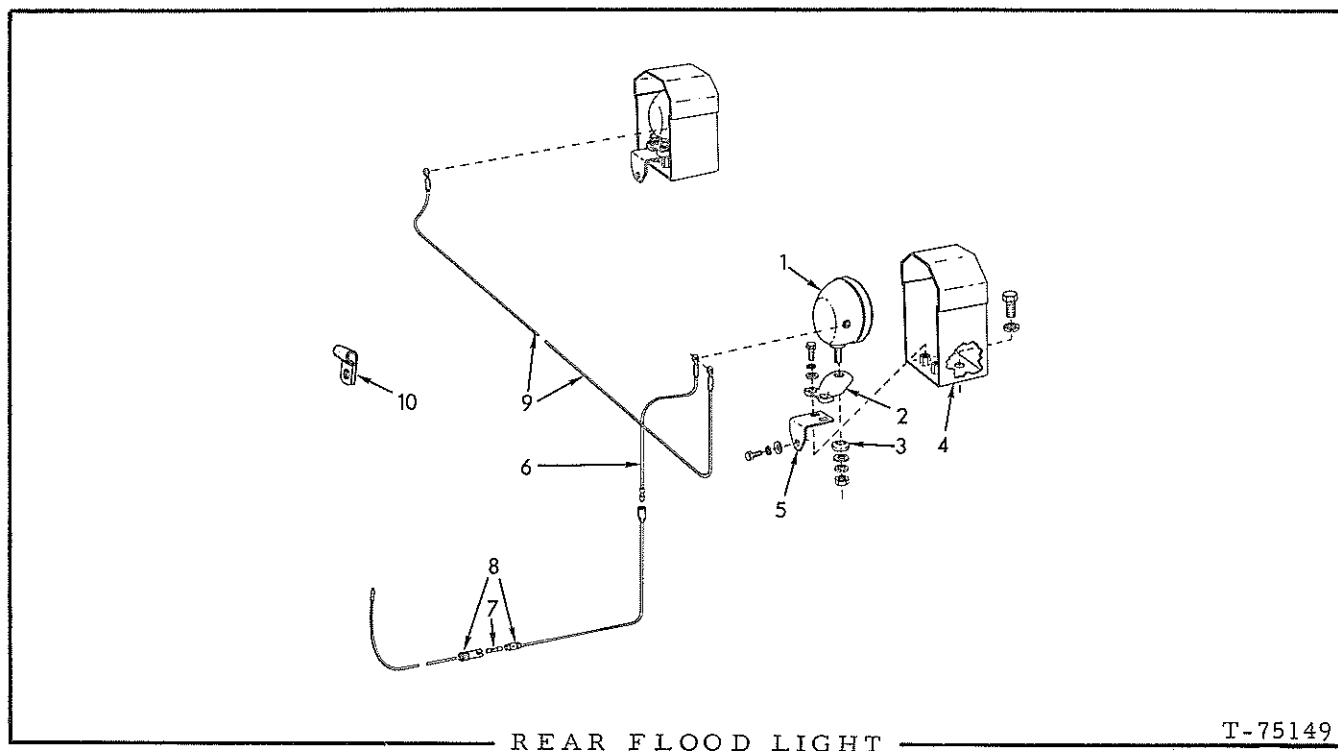
T-27390

USAGE: See pages 219 and 222

ITEM PART NO. QTY. DESCRIPTION

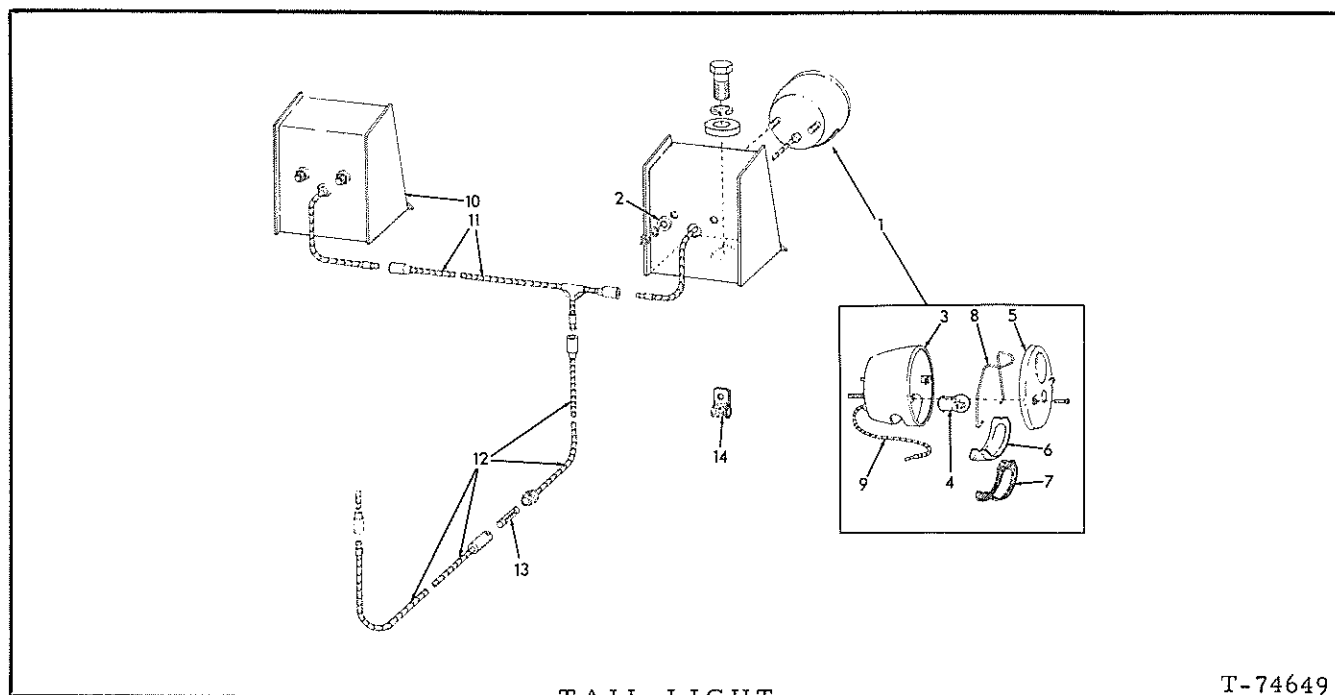
NOTE: Quantities indicated are for one (1) light only

1	182763	1	SEALED BEAM (24 volt)
2	621428	1	RETAINER (rubber)
3	621724	2	CABLE, sealed beam (Includes terminals)
4	-----	1	BODY ASSEMBLY (Not serviced separately)
5	912731	2	SCREW, terminal (#8-32 NC x 5/16")



USAGE: Special equipment

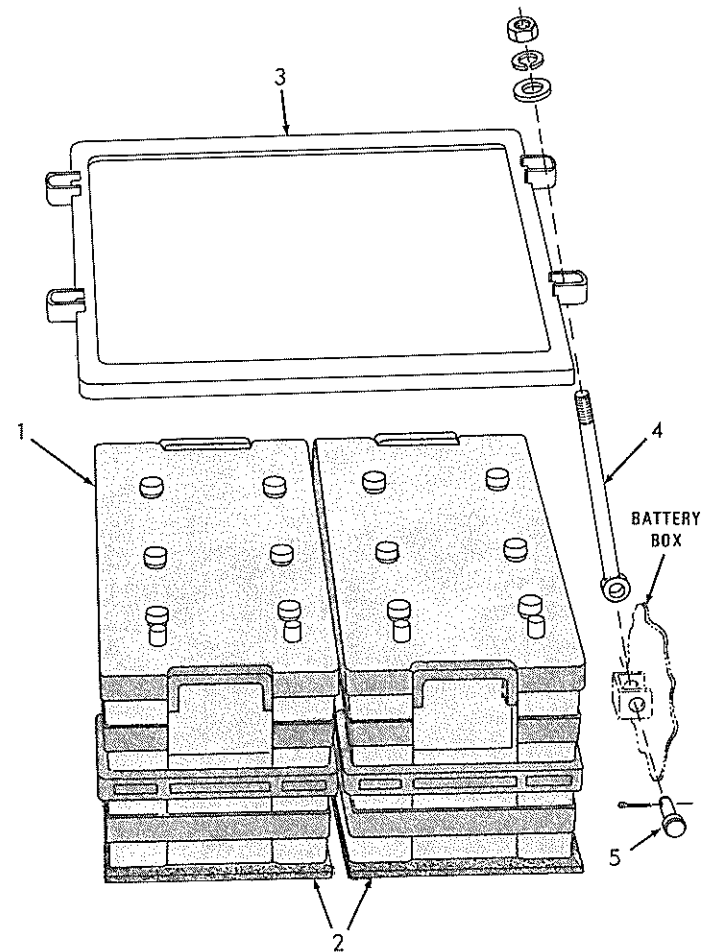
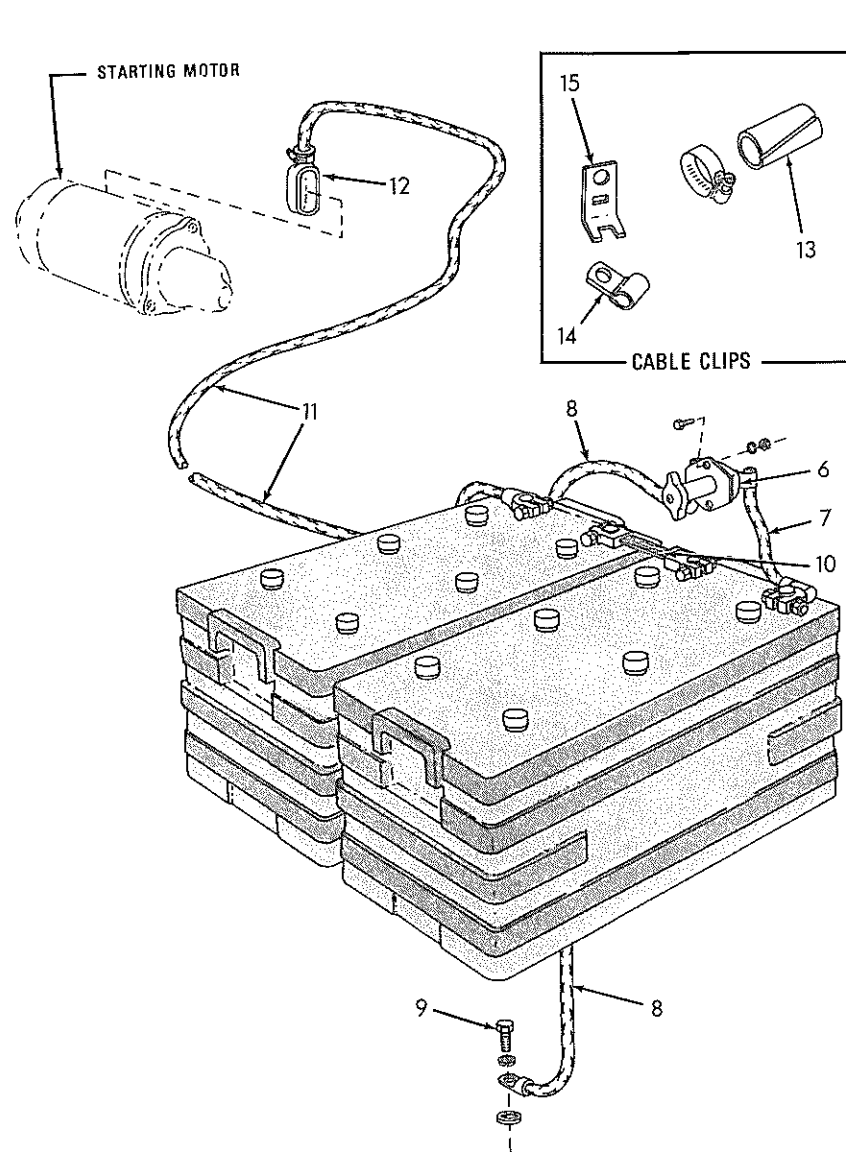
ITEM	PART NO.	QTY.	DESCRIPTION
1	621429	2	LIGHT ASSEMBLY (See page 221 for parts)
	900818	2	WASHER, plain, U.S. std., 1/2"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
2	075429	2	BRACKET, mounting
	916272	4	CAPSCREW, 3/8"NC x 1-1/4"
	904206	4	LOCKWASHER, 3/8"
	044973	4	WASHER, plain
3	075535	2	WASHER, mounting
4	664780	2	GUARD, flood light
	916287	2	CAPSCREW, 3/4"NC x 1-1/2"
	904369	2	LOCKWASHER, 3/4"
5	664776	2	ANGLE, guard bracing
	915408	2	CAPSCREW, 3/8"NC x 3/4"
	904206	2	LOCKWASHER, 3/8"
	911115	2	WASHER, plain, SAE std., 3/8"
6	068367	1	CABLE, rear section (9" long)
7	208960	1	FUSE, cartridge type (1/4" x 1-1/4", 20 amperes)
8	655485	1	CABLE ASSEMBLY, front section (107" long. Includes item 7)
9	654545	1	CABLE, light connecting (68" long)
10	639388	5	CLIP, cable (1/8" diam., 13/32" bolt-hole)
	915408	2	CAPSCREW, 3/8"NC x 3/4"
	911115	2	WASHER, plain, SAE std., 3/8"
	904206	2	LOCKWASHER, 3/8"



T-74649

USAGE: Special equipment

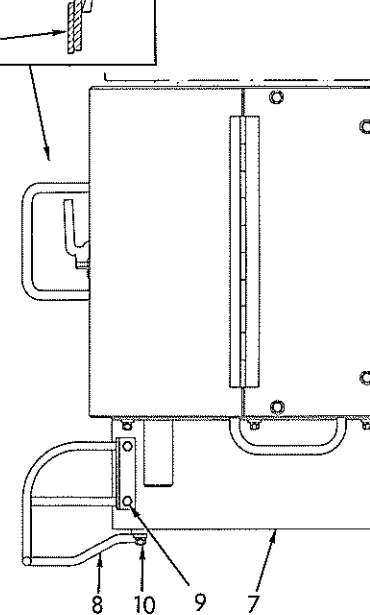
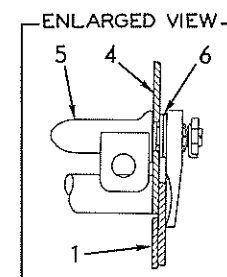
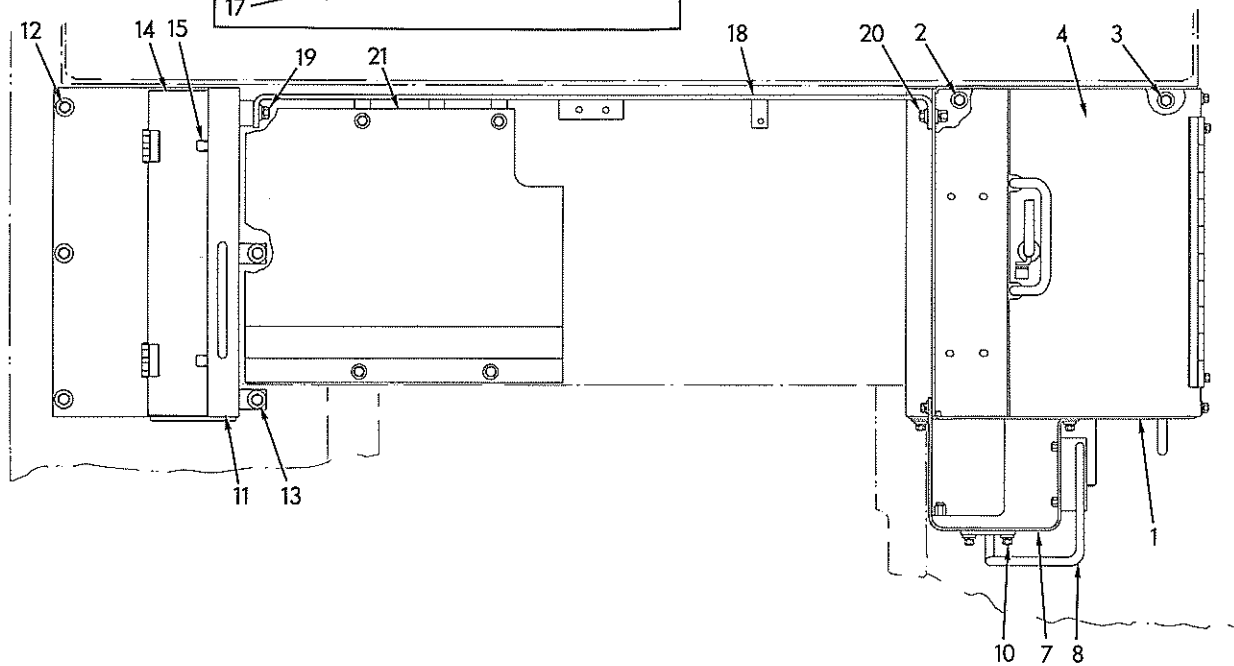
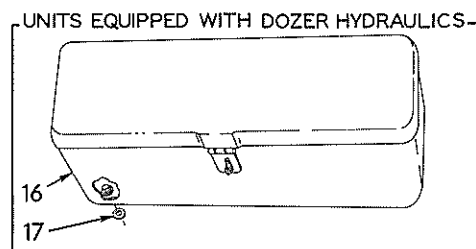
ITEM	PART NO.	QTY.	DESCRIPTION
1	654652	2	LIGHT ASSEMBLY, tail (Consists of items 3 thru 9)
2	092635	4	WASHER, plain
	904204	4	LOCKWASHER, 1/4"
	911024	4	NUT, 1/4"NC
3	-----	2	BODY ASSEMBLY (Not serviced separately)
4	074452	2	BULB, incandescent, single contact, 6 c. p., 24 volt
5	654991	2	LENS, tail light (red)
	654990	4	SCREW, retaining
6	654988	2	LENS-SEGMENT, tail light (clear)
7	654989	2	GASKET, lens-segment
8	654987	2	CLIP, lens-segment retaining
9	654986	2	WIRE ASSEMBLY, tail light (Includes insulating bushing)
10	665508	2	GUARD, tail light
	916287	2	CAPSCREW, 3/4"NC x 1-1/2"
	904369	2	LOCKWASHER, 3/4"
	061689	2	WASHER, plain
11	665505	1	CABLE, light connecting
12	655485	1	CABLE ASSEMBLY, (Includes item 13)
13	208960	1	FUSE, cartridge type (1/4" x 1-1/4", 20 amperes)
14	639388	4	CLIP, cable (1/8" diam., 13/32" bolt-hole)
	915408	4	CAPSCREW, 3/8"NF x 3/4"
	904206	4	LOCKWASHER, 3/8"
	911115	4	WASHER, plain, SAE std., 3/8"



BATTERY MOUNTING

BATTERIES AND CABLES

ITEM	PART NO.	QTY.	DESCRIPTION
1	250545	2	BATTERY, storage, 12 volts, dry-charged (Each requires 15.7 qts. electrolyte)
1A	243526	1	ELECTROLYTE ("Z" pack-6.1 quarts)
	243527	1	ELECTROLYTE ("F" pack-5 gallons)
1B	243528	1	HOSE, electrolyte dispensing (For use with 5-gal. pack)
2	085680	2	PAD, battery bottom
3	660086	1	HOLD-DOWN, battery
4	605801	4	ROD, hold-down
	064531	4	WASHER, plain
	904208	4	LOCKWASHER, 1/2"
	911043	4	NUT, 1/2"NF
5	049993	4	PIN, hold-down rod
	900806	4	PIN, cotter, 1/8" x 1"
6	096908	1	SWITCH ASSEMBLY, master (Serviced only as a unit)
	915406	2	CAPSCREW, 1/4"NC x 3/4"
	904204	2	LOCKWASHER, 1/4"
	911024	2	NUT, 1/4"NC
7	660220	1	CABLE, battery to master switch (12" long)
8	660189	1	CABLE, master switch to ground (42" long)
9	916310	1	CAPSCREW, 1/2"NC x 1"
	904208	1	LOCKWASHER, 1/2"
	906961	1	LOCKWASHER, internal teeth, 1/2"
10	660216	1	STRAP, battery connecting
11	660215	1	CABLE, battery to starter (114-1/2" long)
12	076572	1	BOOT, protecting, starter terminal
	921912	1	CLAMP, hose, 1-1/16" to 2" diam.
13	076469	5	BOOT, cable protecting
	921912	5	CLAMP, hose, 1-1/16" to 2" diam.
14	094422	3	CLIP, cable supporting
	916268	3	CAPSCREW, 3/8"NC x 5/8"
	904206	3	LOCKWASHER, 3/8"
	911115	3	WASHER, plain, SAE std., 3/8"
15	633653	4	CLIP, cable supporting

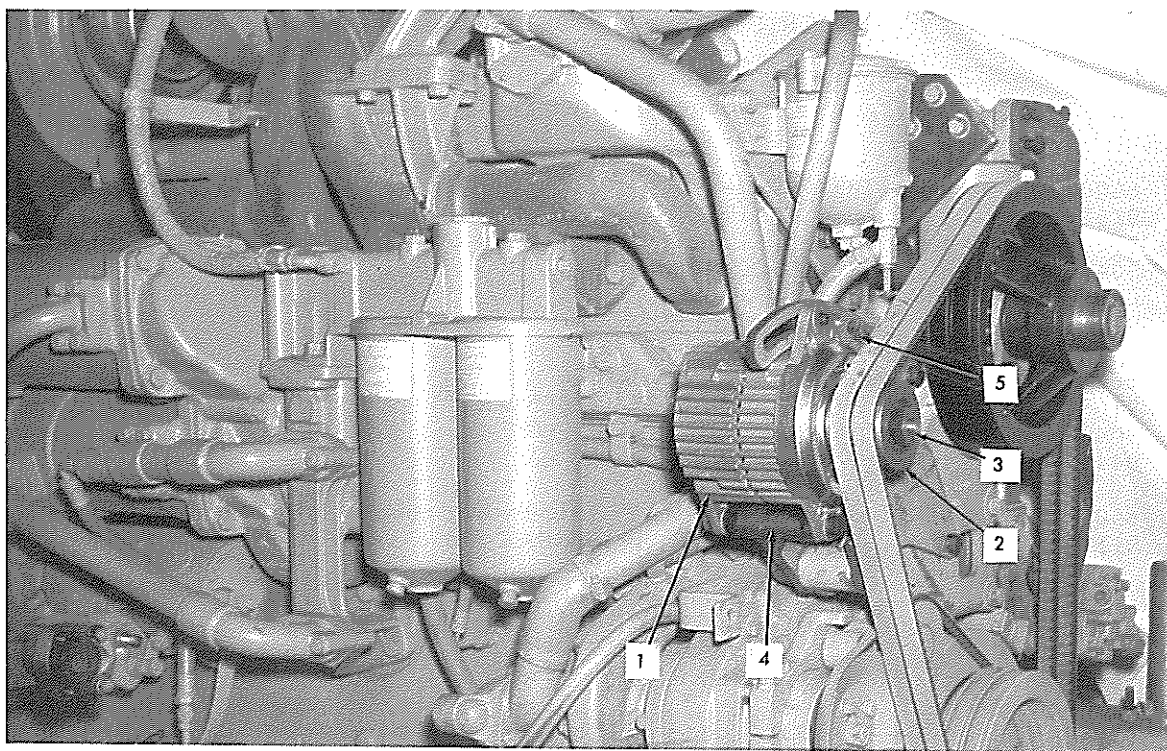


BATTERY AND TOOL BOXES

ITEM	PART NO.	QTY.	DESCRIPTION
------	----------	------	-------------

NOTE: Tool Box, items 11 thru 15, is not used on units equipped with independent hydraulic system for dozer operation. See item 16 for tool box applicable to units equipped with dozer hydraulics.

1	660634	1	BOX, battery
2	916313	2	CAPSCREW, 1/2"NC x 1-3/4"
3	916314	4	CAPSCREW, 1/2"NC x 2"
	904208	6	LOCKWASHER, 1/2"
	064531	10	WASHER, plain
	911028	4	NUT, 1/2"NC
4	660692	1	COVER, battery box
	916271	4	CAPSCREW, 3/8"NC x 1"
	904206	4	LOCKWASHER, 3/8"
	044973	4	WASHER, plain
5	650901	1	LOCK ASSEMBLY, battery box cover (Serviced only as a unit)
6	911115	2	WASHER, plain, SAE std., 3/8"
7	660651	1	COVER, speed control linkage
	916271	6	CAPSCREW, 3/8"NC x 1"
	904206	6	LOCKWASHER, 3/8"
	044973	6	WASHER, plain
8	656608	1	GUARD, speed shift lever
9	916271	2	CAPSCREW, 3/8"NC x 1"
10	070960	2	CAPSCREW, 3/8"NC x 1-1/2"
	904206	4	LOCKWASHER, 3/8"
	044973	2	WASHER, plain
11	660670	1	BOX, tool
12	915963 915963	3	CAPSCREW, 5/8"NC x 2-1/4"
13	916971	3	CAPSCREW, 5/8"NC x 3-1/4"
	904209	6	LOCKWASHER, 5/8"
	064810	6	WASHER, plain
14	643369	1	COVER ASSEMBLY, tool box (Includes item 15)
	915408	4	CAPSCREW, 3/8"NC x 3/4"
	904206	4	LOCKWASHER, 3/8"
	911026	4	NUT, 3/8"NC
15	639480	2	CLAMP, cover latching
	911608	8	RIVET, button-head, 1/8" x 3/8"
16	604943	1	BOX, tool (Mounts on right track fender)
	916272	4	CAPSCREW, 3/8"NC x 1-1/4"
	904206	4	LOCKWASHER, 3/8"
	911115	4	WASHER, plain, SAE std., 3/8"
17	630753	4	WASHER, tool box spacing
18	660090	1	SUPPORT
19	915987	3	CAPSCREW, 1/2"NC x 1-1/2"
20	916313	3	CAPSCREW, 1/2"NC x 1-3/4"
	904208	6	LOCKWASHER, 1/2"
	047063	9	WASHER, plain
	911028	3	NUT, 1/2"NC
21	668393	1	COVER, filter compartment (Not used on units equipped with dozer hydraulics)
	916311	4	CAPSCREW, 1/2"NC x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
	064531	4	WASHER, plain



— ALTERNATOR —

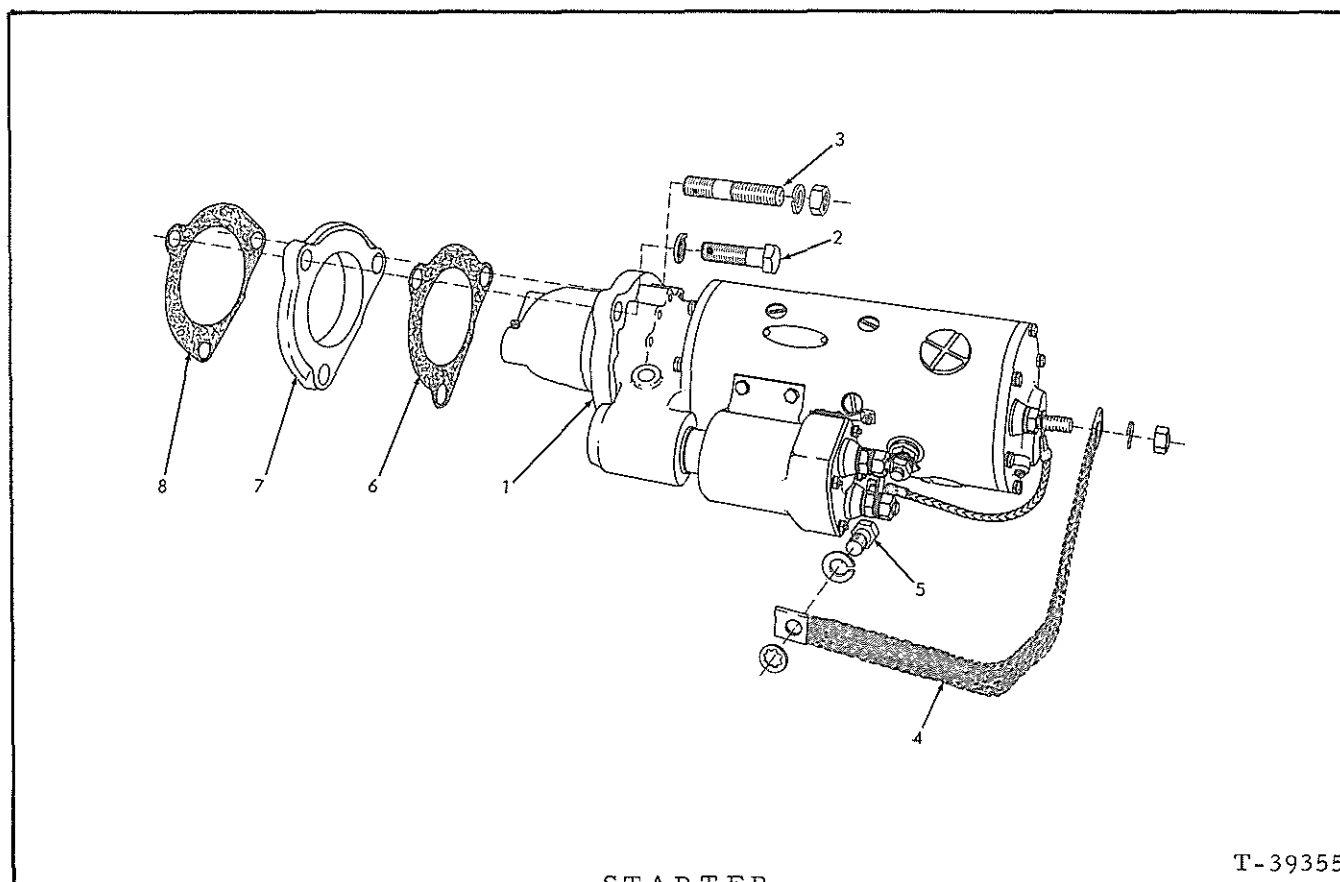
T-75113

* Standard (20 amp capacity)

** Optional (50 amp capacity)

ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
1	660144	1	-	ALTERNATOR ("Delco-Remy" #1100062)	Order parts from local "United Motors Service" agency
	662020	-	1	ALTERNATOR ("Delco-Remy" #1117226)	
	920540	1	1	CAPSCREW, Nylok, 1/2"NC x 1-1/4"	
	920541	1	1	CAPSCREW, Nylok, 1/2"NC x 1-1/2"	
	910244	2	2	WASHER, plain, SAE std., 1/2"	
2	667234	1	1	PULLEY	
3	667188	1	1	NUT, pulley retaining	
4	667216	1	1	BRACKET, alternator mounting	Also attach fan bracket
	916292	1	1	CAPSCREW, 3/4"NC x 4-1/2"	
	916170	1	1	NUT, elastic stop, 3/4"NC	
	916319	1	1	CAPSCREW, 1/2"NC x 3-1/2"	
	904208	1	1	LOCKWASHER, 1/2"	
5	667224	1	1	STRAP, belt adjustment	
	916311	2	2	CAPSCREW, 1/2"NC x 1-1/4"	
	904208	1	1	LOCKWASHER, 1/2"	
	910244	2	2	WASHER, plain, SAE std., 1/2"	
6	650944	1	-	REGULATOR, voltage and current ("Delco-Remy" #1119518. Order parts from local "United Motors Service" agency)(Not illustrated)	
	915343	2	-	CAPSCREW, 1/4"NC x 5/8"	
	904204	2	-	LOCKWASHER, 1/4"	
	911024	2	-	NUT, 1/4"NC	

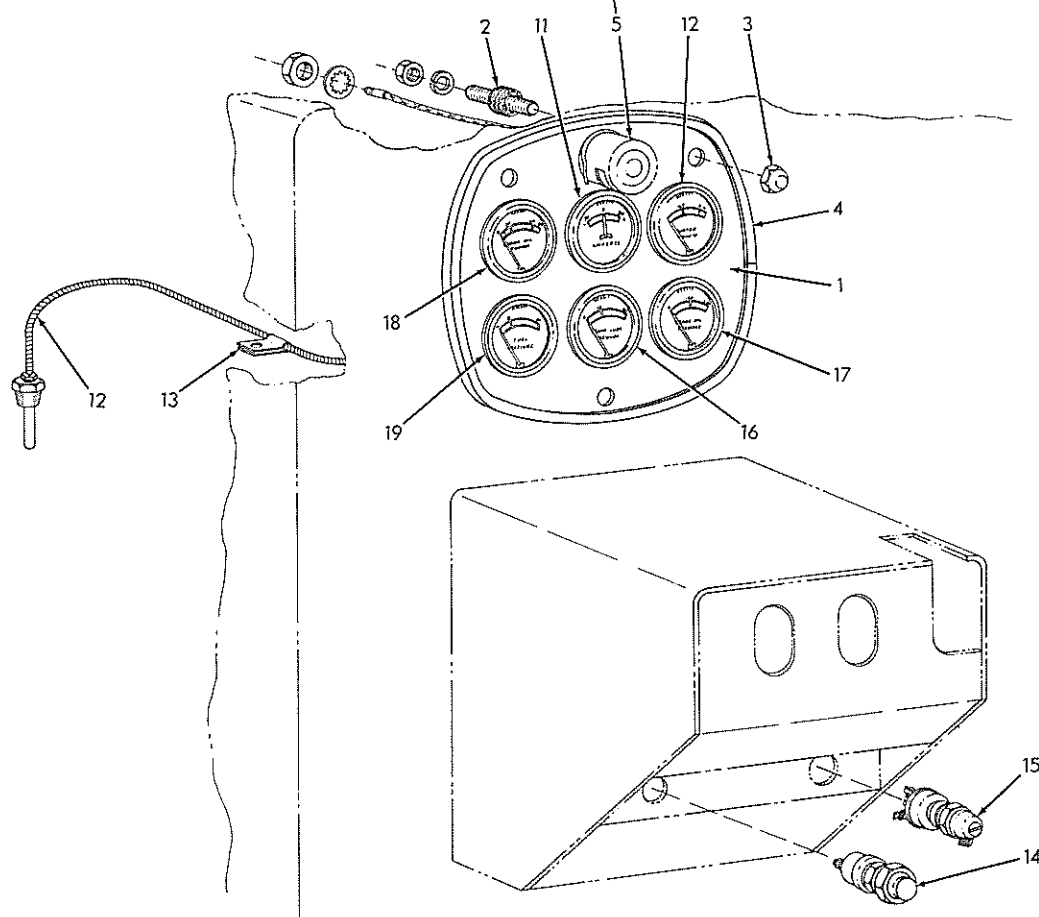
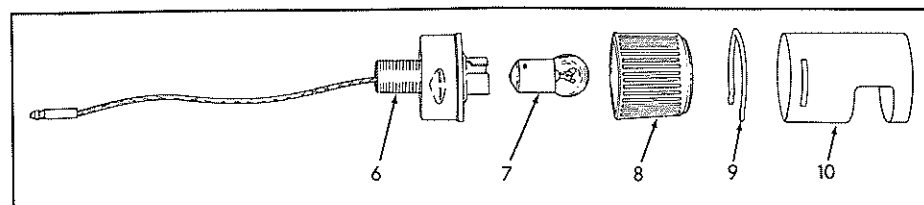
NOTE: See FAN for driving belts



ITEM	PART NO.	QTY.	DESCRIPTION
1	4387529	1	MOTOR, starting ("Delco-Remy" #1113898)(Standard)
	620350	1	MOTOR, starting ("Delco-Remy" #1109986)(Heavy-duty)
2	631571	2	CAPSCREW, Nylok, 5/8"NC x 2-1/4"
3	648262	1	STUD, Nylok, 5/8"NC x 5/8"NF x 3-1/8"
	904209	3	LOCKWASHER, 5/8"
	911044	1	NUT, 5/8"NF

NOTE: Order starter parts from local United Motors Service agency

4	630199	1	STRAP, starter to ground
5	914875	1	CAPSCREW, 1/2"NF x 1"
	904208	1	LOCKWASHER, regular, 1/2"
	906961	1	LOCKWASHER, int-tooth, 1/2"
6	631573	1	GASKET, starting motor
7	631574	1	ADAPTER, starting motor
8	631572	1	GASKET, starting motor adapter



INSTRUMENTS

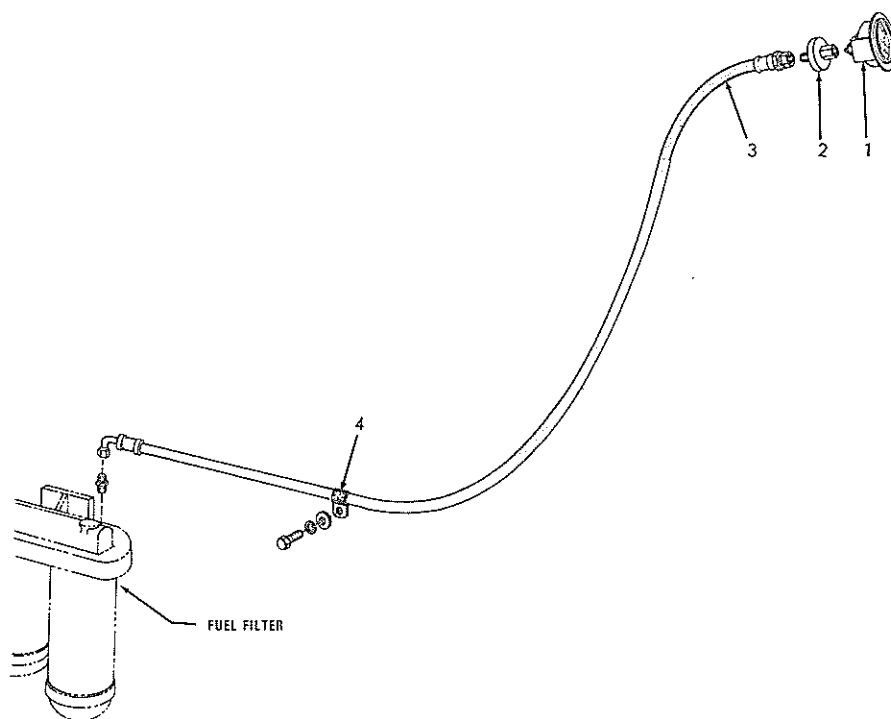
T-74647

ITEM	PART NO.	QTY.	DESCRIPTION
1	656905	1	PLATE, instrument mounting
2	642746	3	CUSHION, instrument mounting plate
	904206	3	LOCKWASHER, 3/8"
	911048	3	NUT, jam, 3/8"NF
3	924950	3	NUT, instrument mounting plate
4	656923	1	SEAL, weather, instrument mounting plate
5	658641	1	LIGHT ASSEMBLY, instrument panel (Consists of items 6 thru 10)
	911049	1	NUT, jam, 5/8"NF
	910334	1	LOCKWASHER, int-tooth, 5/8"

(Continued)

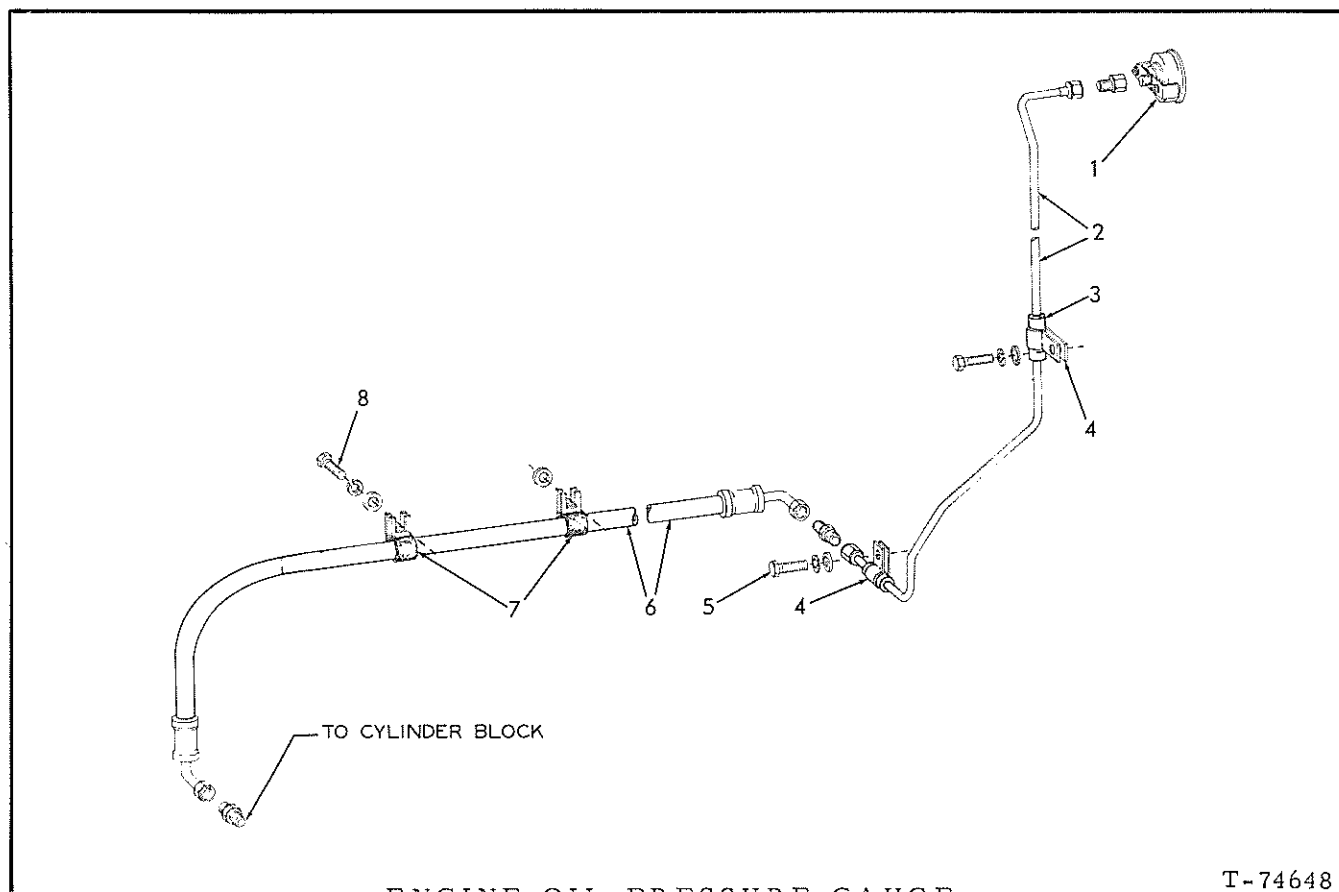
INSTRUMENTS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
6	-----	1	BASE ASSEMBLY (Not serviced separately)
7	074452	1	BULB, instrument light (single contact, 6 C. P. , 24 volts)
8	095267	1	LENS, instrument light
9	095265	1	SPRING, retaining, instrument light cover
10	659002	1	COVER, instrument light
11	{ 658348	1	AMMETER (30 amp. Includes mounting clamp)(Standard)
	{ 658534	1	AMMETER (80 amp. Includes mounting clamp)(Special equipment)
12	658397	1	GAUGE, engine temperature (Includes mounting clamp)
13	639312	1	CLIP, temperature gauge tube
14	240962	1	SWITCH ASSEMBLY, starter (Includes mounting nut)
15	661345	1	SWITCH ASSEMBLY, lights (Includes mounting nut)
16	-----	1	GAUGE, transmission lubricating oil pressure (See page 234)
17	-----	1	GAUGE, transmission hydraulic pressure (See page 234)
18	-----	1	GAUGE, engine oil pressure (See page 233)
19	-----	1	GAUGE, fuel oil pressure (See page 232)

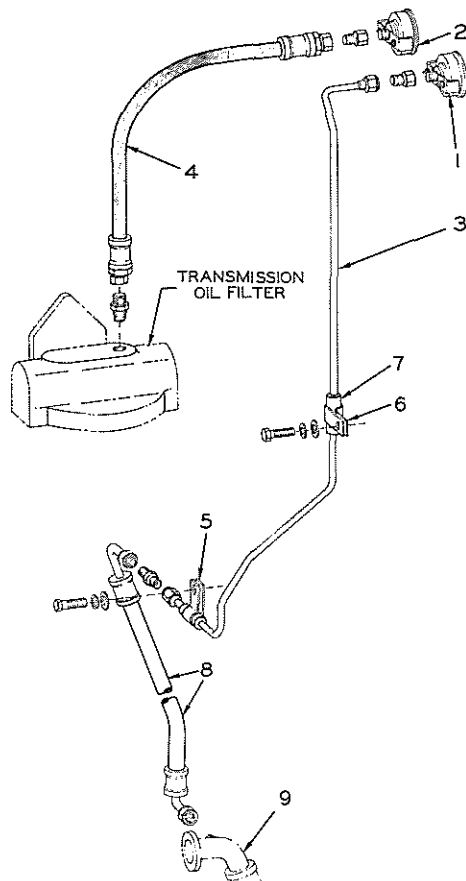


T-74646

ITEM	PART NO.	QTY.	DESCRIPTION
1	658349	1	GAUGE (Includes mounting clamp)
2	088534	1	RESTRICTOR
3	668516	1	HOSE (See HOSE PARTS)
	919171	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT female
4	644006	1	CLIP, hose supporting
	915408	1	CAPSCREW, 3/8"NC x 3/4"
	904206	1	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"



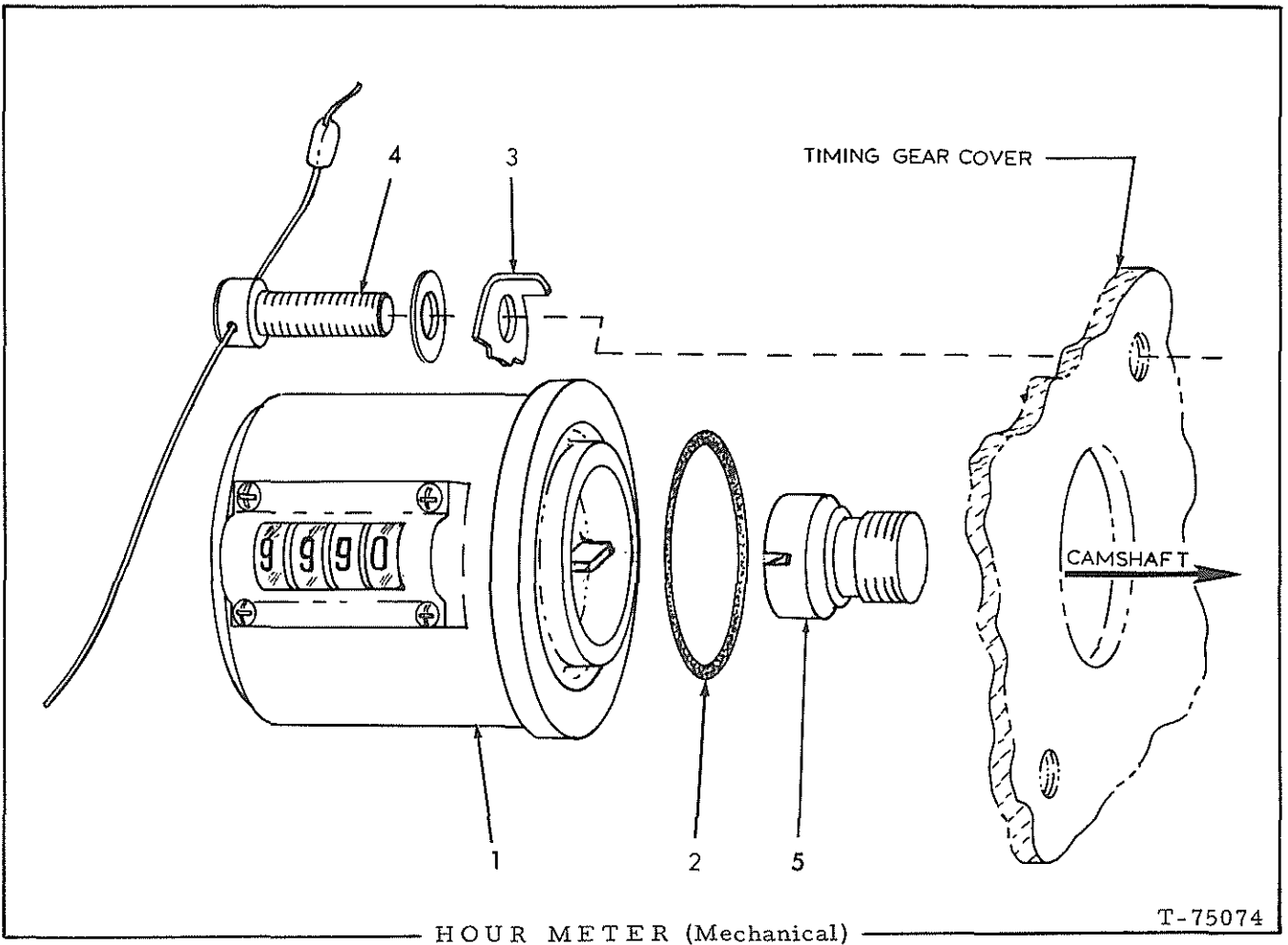
ITEM	PART NO.	QTY.	DESCRIPTION
1	658293	1	GAUGE, oil pressure (Includes mounting clamp)
2	658124	1	TUBE ASSEMBLY, oil pressure gauge (Includes nuts)
	919174	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT female
	919214	1	UNION, flare type, 1/4" tube
3	093972	2	BOOT, tube protecting (rubber)
4	047381	2	CLIP, tube supporting (5/8" diam., 13/32" bolt-hole)
5	916271	2	CAPSCREW, 3/8"NC x 3/4"
	904206	2	LOCKWASHER, 3/8"
	911115	2	WASHER, plain, SAE std., 3/8"
6	658639	1	HOSE, oil pressure line (See HOSE PARTS)
	919140	1	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male
7	620035	2	CLIP, hose supporting, (1/2" diam., 13/32" bolt-hole)
8	915408	1	CAPSCREW, 3/8"NC x 3/4"
	911115	2	WASHER, plain, SAE std., 3/8"
	904206	1	LOCKWASHER, 3/8"



TRANSMISSION PRESSURE GAUGES

T-74645

ITEM	PART NO.	QTY.	DESCRIPTION
1	665909	1	GAUGE, lubricating oil (Includes mounting clamp)
2	666185	1	GAUGE, hydraulic pressure (Includes mounting clamp)
3	658121	1	TUBE ASSEMBLY, lube oil gauge (Includes nuts)
	919174	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT female
	919214	1	UNION, flare type, 1/4" tube
4	660842	1	HOSE, hydraulic pressure gauge (See HOSE PARTS)
	919140	1	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male
	919174	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT female
5	628723	1	CLIP, tube supporting (long)
6	047381	1	CLIP, tube supporting (short)
7	093972	2	BOOT, tube protecting (rubber)
8	660850	1	HOSE, lube oil gauge (See HOSE PARTS)
9	-----	1	HOSE, oil supply (See TRANSMISSION)

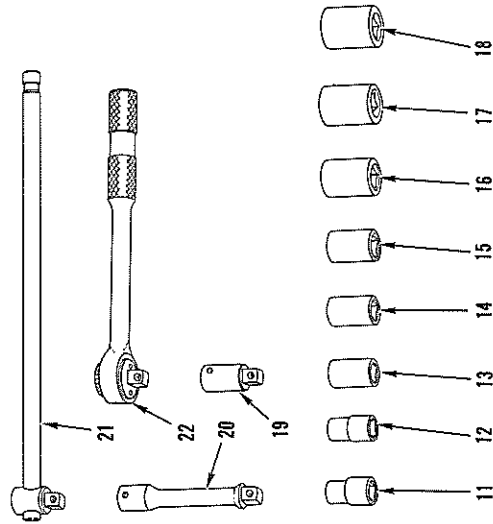
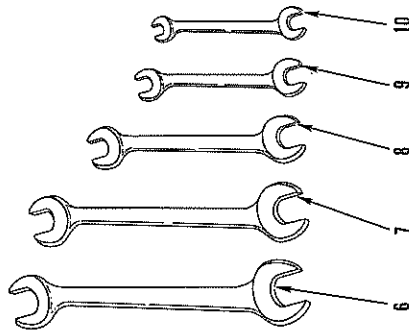
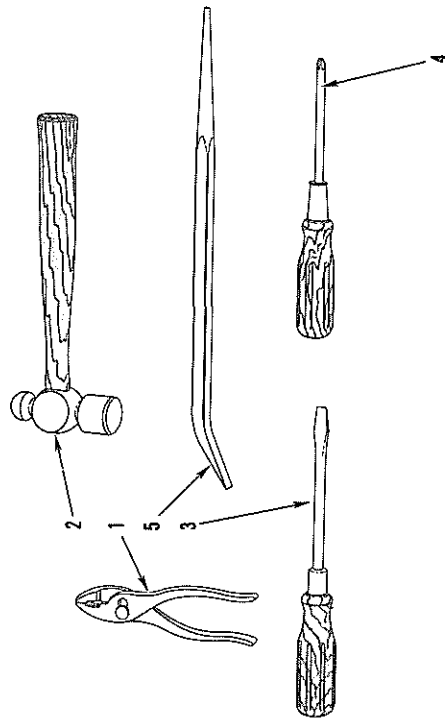
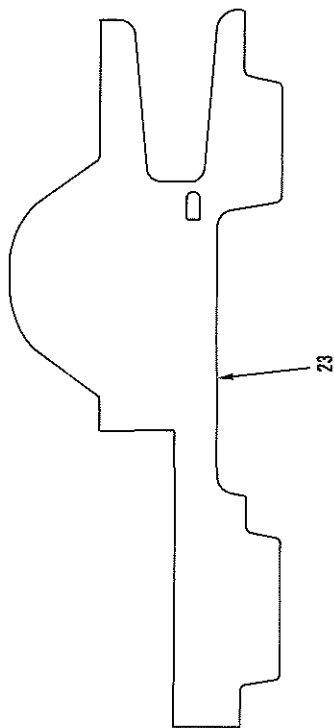


— HOUR METER (Mechanical) —

T-75074

USAGE: Standard equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	4392013	1	METER ASSEMBLY (Serviced only as a unit)
2	924137	1	O-RING, meter mounting
3	4359293	2	CLAMP, meter attachment
	4391914	2	SCREW, hex-socket-hd., 1/4"NF x 3/4"
	904204	2	LOCKWASHER, 1/4"
4	4355843	1	SEAL, anti-tampering
5	4391912	1	PLUG, camshaft (meter driving)



TOOLS

ITEM PART NO. QTY. DESCRIPTION

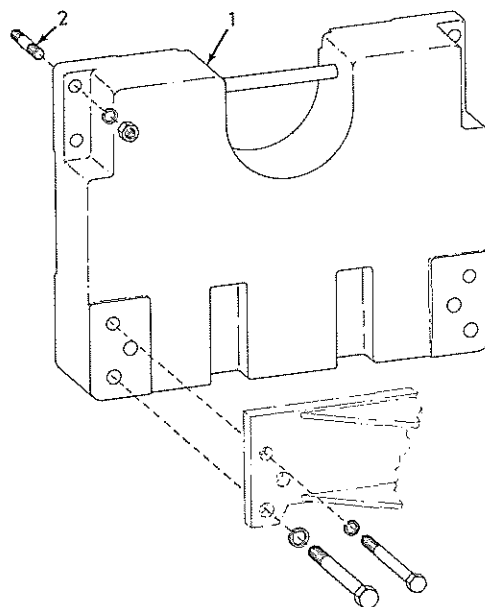
NOTE: For other recommended service tools, see Service Tool Manual Form 650850

1	012389	1	PLIERS, slip joint, 6"
2	012387	1	HAMMER, ball peen, 1 lb.
3	036268	1	SCREWDRIVER, 9-3/4" long
4	914732	1	SCREWDRIVER, Phillips #2
5	052371	1	BAR, pinch, 16" long
6	050611	1	WRENCH, open end, double head, 15°, 15/16" and 1-1/16"
7	050610	1	WRENCH, open end, double head, 15°, 3/4" and 7/8"
8	050609	1	WRENCH, open end, double head, 15°, 5/8" and 3/4"
9	050608	1	WRENCH, open end, double head, 15°, 1/2" and 9/16"
10	050607	1	WRENCH, open end, double head, 15°, 5/16" and 3/8"
11	914709	1	SOCKET, 1/2" square drive, 1/2" hex
12	914710	1	SOCKET, 1/2" square drive, 9/16" hex
13	914711	1	SOCKET, 1/2" square drive, 5/8" hex
14	914712	1	SOCKET, 1/2" square drive, 11/16" hex
15	914713	1	SOCKET, 1/2" square drive, 3/4" hex
16	914714	1	SOCKET, 1/2" square drive, 7/8" hex
17	914715	1	SOCKET, 1/2" square drive, 15/16" hex
18	914716	1	SOCKET, 1/2" square drive, 1" hex
19	914717	1	BAR, extension, socket, 1/2" drive, 2" long
20	914718	1	BAR, extension, socket, 1/2" drive, 5" long
21	050612	1	HANDLE, socket, sliding T, 1/2" square drive, 15" long
22	914719	1	HANDLE, socket, ratchet, 1/2" square drive
23	668229	1	GAUGE, wear (Includes maximum wear tolerances for track rails, grouser shoes, sprockets, idlers and track rollers)

FUEL TANK AND SEAT GUARD
(Not Illustrated)

USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	660211	1	GUARD
2	023755	6	CAPSCREW, 5/8"NF x 2-1/4"
3	023465	4	CAPSCREW, 5/8"NF x 1-3/4"
4	064810	16	WASHER, plain
	904209	10	LOCKWASHER, 5/8"
	911029	6	NUT, 5/8"NF
5	651184	2	BLOCK, tapped (Require welding to install)

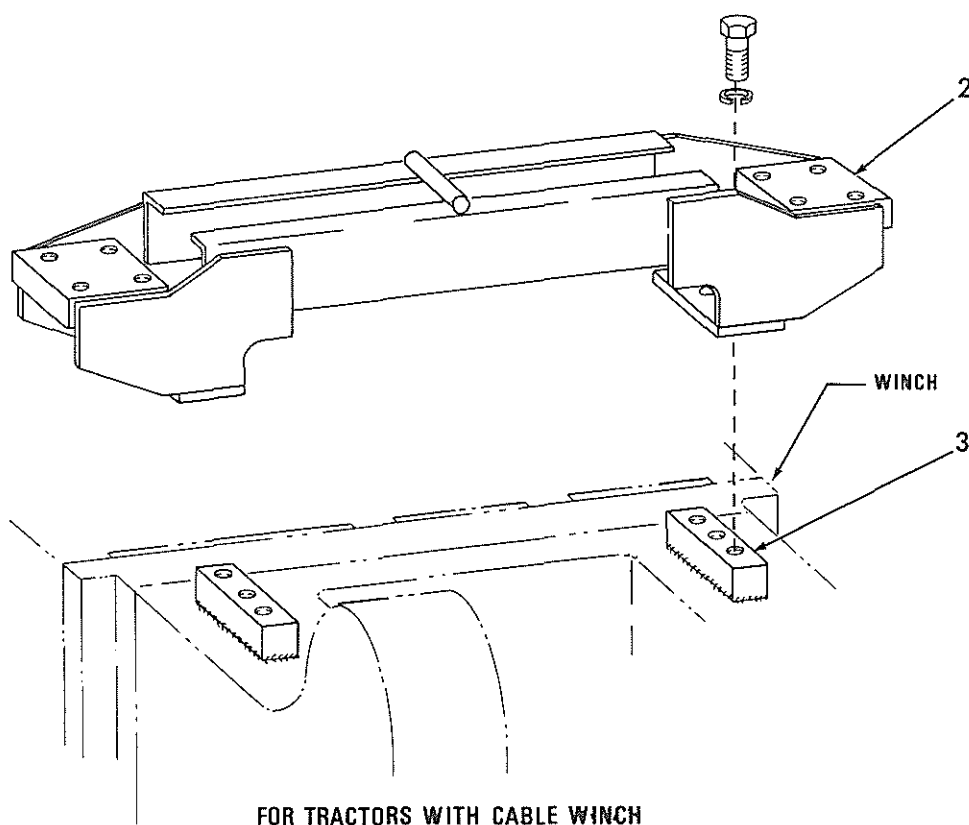
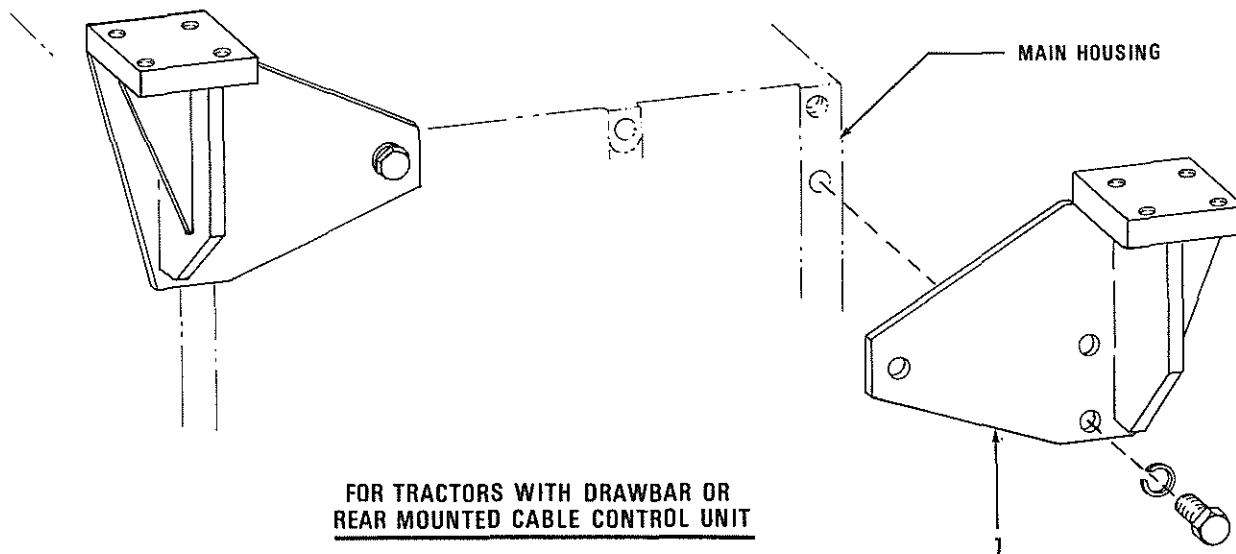


T-76867

COUNTER WEIGHT

USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION	
1	0671713-6	1	COUNTER WEIGHT	
	0927286-5	2	CAPSCREW, 1-1/4"NF x 14-1/2"	} Also attach drawbar
	0914730-7	2	LOCKWASHER, 1-1/4"	
	0927287-3	4	CAPSCREW, 1-1/2"NF x 14-1/2"	
	0912603-7	4	LOCKWASHER, 1-1/2"	
2	0671727-6	4	STUD	
	0914730-7	4	LOCKWASHER, 1-1/4"	
	0913097-2	4	NUT, 1-1/4"NF	



T-75795

REAR MOUNTING BRACKETS (Safety Cab or Canopy)

Insert in HD21 Series B Parts Catalog 0664645-9
Printed in U.S.A.

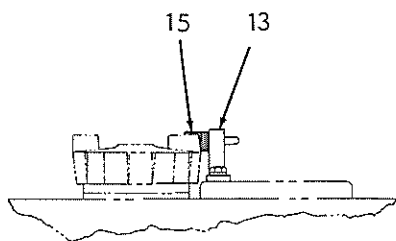
(Added October 1971)

238B

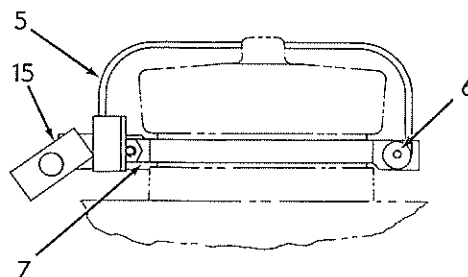
REAR MOUNTING BRACKETS (Safety Cab or Canopy)

USAGE: Special. For units equipped with Safety Cab or Canopy

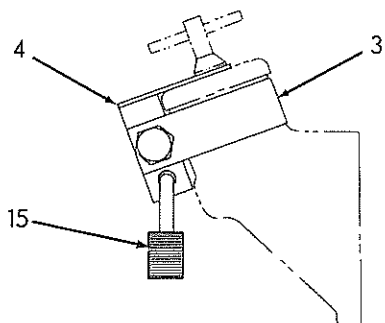
ITEM	PART NO.	QTY.	DESCRIPTION	
1	0669491-3	1	BRACKET, cab or canopy mounting, left	For tractors equipped with Drawbar or Rear Mounted Cable Control Unit. (See Note)
	0669492-1	1	BRACKET, cab or canopy mounting, right	
	0925880-7	6	CAPSCREW, 1-1/4"NF x 3-1/2"	
	0926208-0	6	WASHER, plain	
NOTE: Item 1 requires re-working per print S-5362 if for tractors equipped with Rear Mounted cable Control Unit.				
2	0669458-2	1	BRACKET, cab or canopy mounting	For tractors equipped with Cable Winch
	0923201-8	6	CAPSCREW, 1-1/4"NF x 3"	
	0904210-2	6	LOCKWASHER, 1-1/4"	
3	0669468-1	1	BLOCK, bracket mounting, right (Requires welding to install).	
	0669469-9	1	BLOCK, bracket mounting, left (Requires welding to install).	



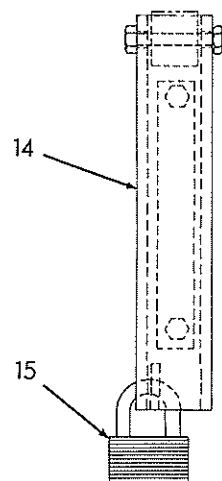
HYDRAULIC TANK



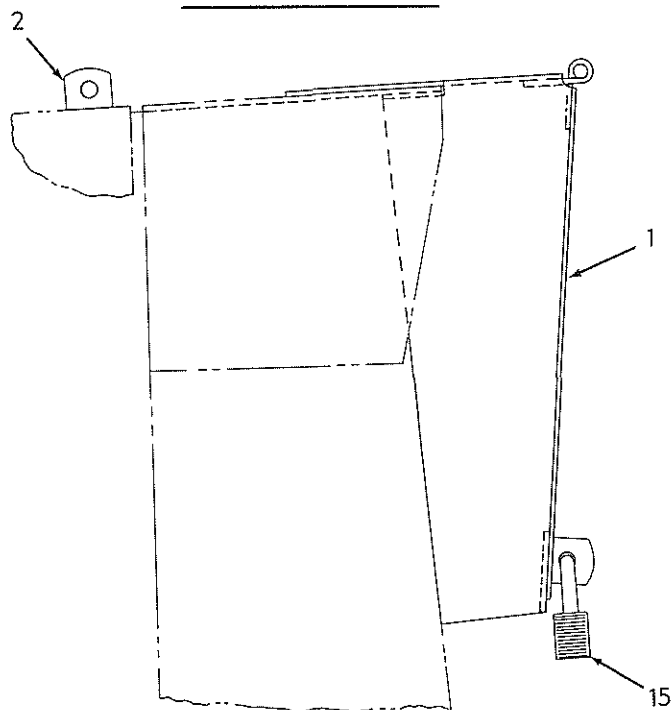
FUEL TANK



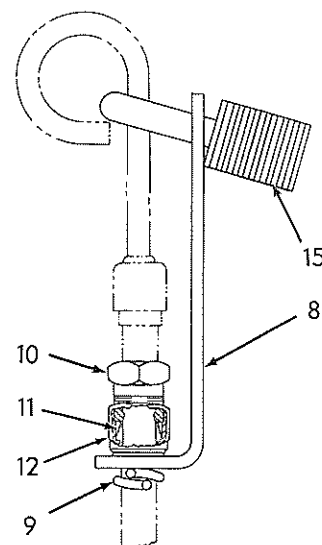
ENGINE OIL FILLER TUBE



HYDRAULIC TANK SIGHT GAUGE



INSTRUMENT PANEL



ENGINE OIL DIPSTICK

VANDALISM PREVENTION PARTS

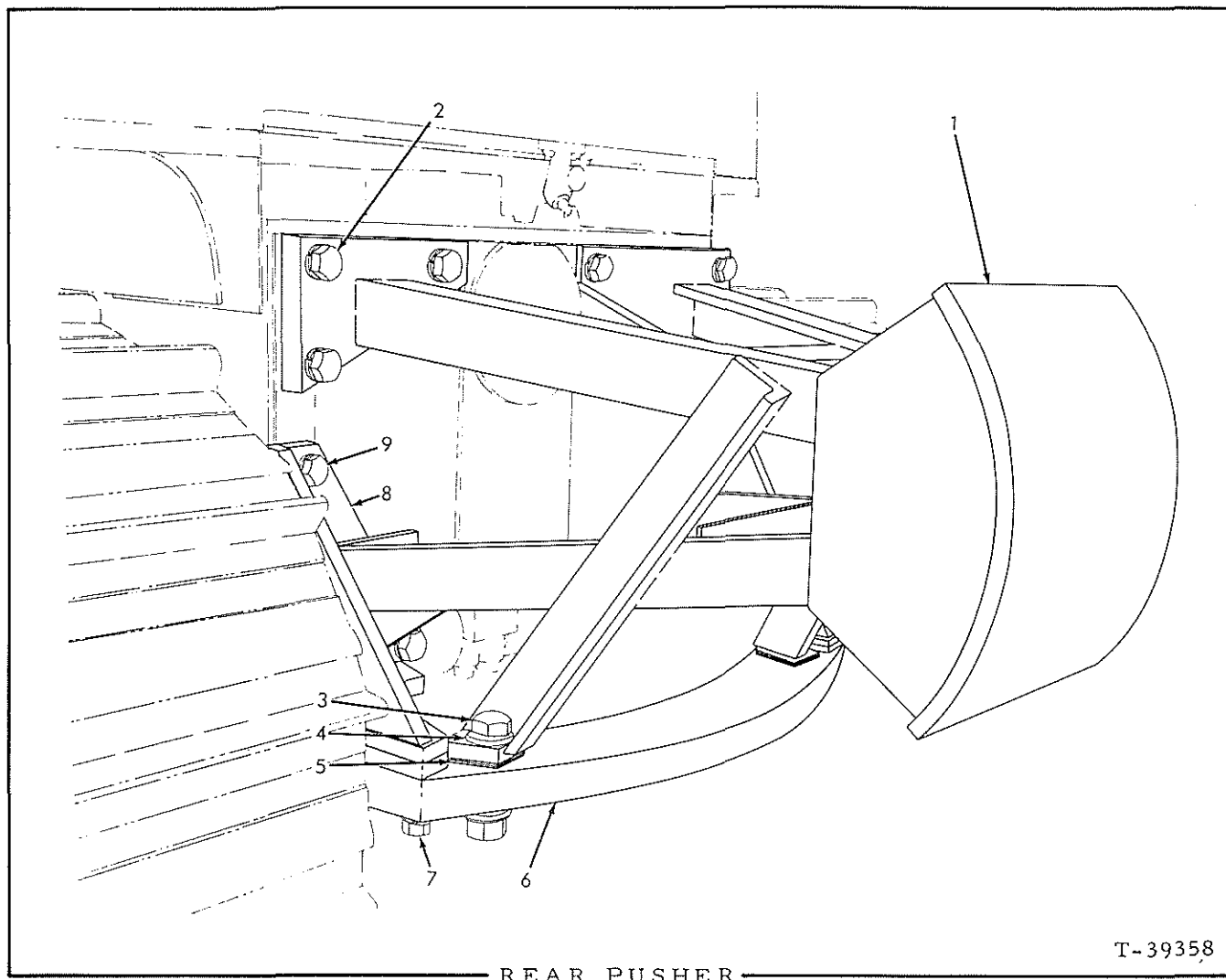
T-76433

VANDALISM PREVENTION PARTS

USAGE: Special equipment

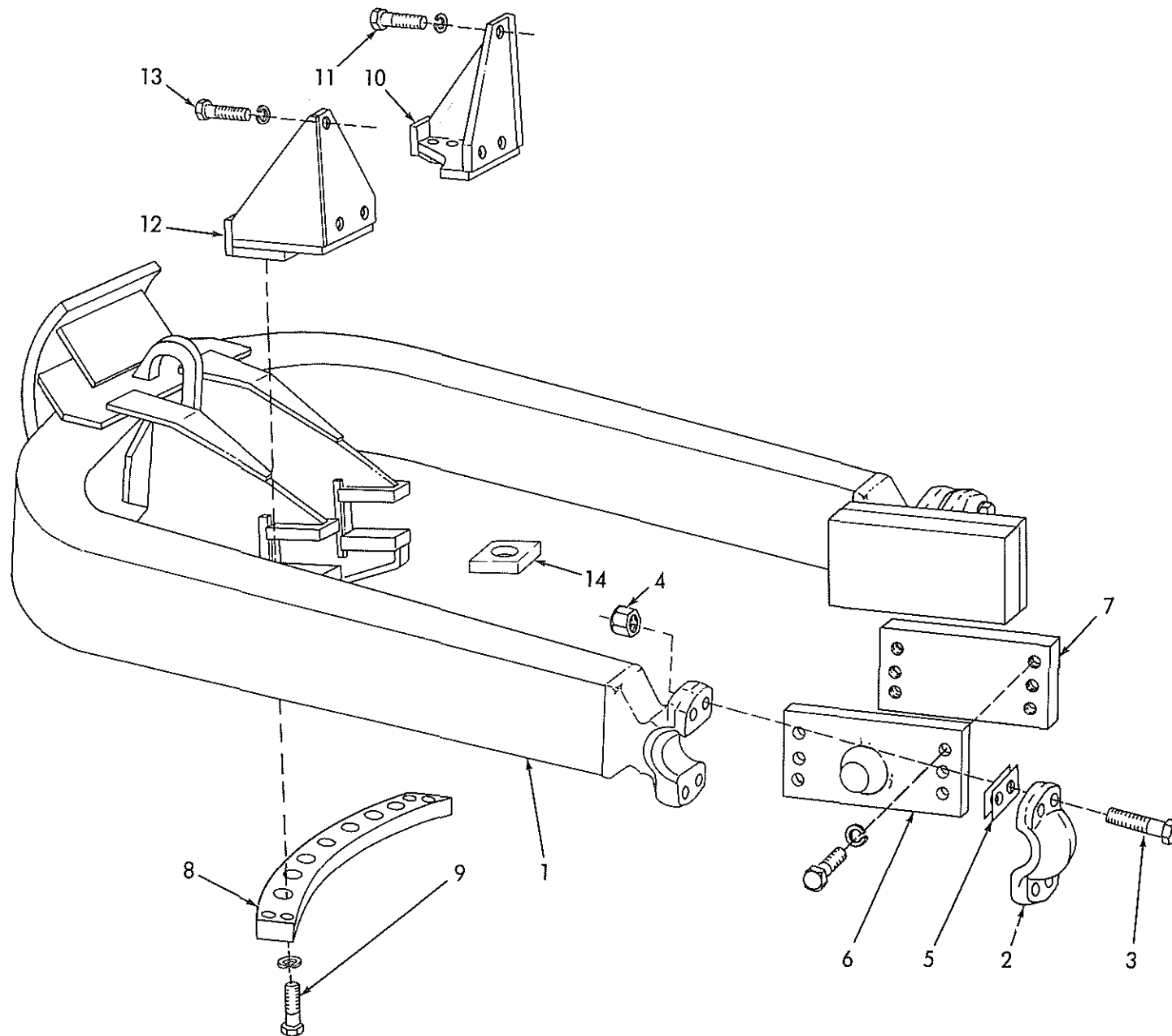
ITEM	PART NO.	QTY.	DESCRIPTION
1	0658147-4	1	GUARD, instrument panel (Requires welding to cowl)
2	0658144-1	1	LUG, instrument panel guard (Requires welding to hood)
3	0660078-7	1	COLLAR, engine oil filler elbow
	0916272-8	1	CAPSCREW, 3/8"NC x 1-1/4"
	0910287-2	1	LOCKWASHER, 3/8"
	0044973-6	1	WASHER, plain
4	0659112-7	1	BRACKET, engine oil filler closure
5	0657553-4	1	COVER, fuel tank cap
6	0924838-6	1	RIVET, fuel, tank cap cover
7	0657556-7	1	CLAMP, fuel tank filler neck
	0916285-0	1	CAPSCREW, 1/4"NC x 1"
	0910285-6	1	LOCKWASHER, 1/4"
	0911024-8	1	NUT, 1/4"NC
8	0659175-4	1	ANGLE, locking, engine oil level gauge
9	4254980-8	1	CLAMP, supporting, locking angle
10	0650178-7	1	NUT, locking, engine oil level gauge (upper)
11	0925164-6	1	FERRULE, locking nut
12	0925162-0	1	NUT, locking, engine oil level gauge (lower)
13	0669008-5	1	PLATE, locking, hydraulic tank cap
	0916273-6	2	CAPSCREW, 3/8"NC x 1-3/4"
	0910287-2	2	LOCKWASHER, 3/8"
14	0677711-4	1	CHANNEL, sight gauge guarding
	0920996-6	1	CAPSCREW, 3/8"NC x 2-1/4"
	0915891-6	1	NUT, elastic stop, 3/8"NC
15	0928052-0	6	PADLOCK





USAGE: Special equipment. Not for tractors equipped with dozer.

ITEM	PART NO.	QTY.	DESCRIPTION
1	094610	1	PUSHER, rear
2	053251	10	CAPSCREW, 1-1/4"NF x 4-1/2"
3	052077	2	CAPSCREW, 1-1/4"NF x 6"
	904210	12	LOCKWASHER, 1-1/4"
4	075420	4	WASHER, plain
	913097	2	NUT, 1-1/4"NF
5	094622	8	SHIM, rear pusher (Use as req'd)
6	078741	1	PLATE, supporting
7	047138	4	CAPSCREW, 1-1/4"NF x 5"
	904210	4	LOCKWASHER, 1-1/4"
8	098145	1	BRACKET, supporting plate, left
	098146	1	BRACKET, supporting plate, right
9	052361	2	CAPSCREW, 1-1/4"NF x 4"
	904210	2	LOCKWASHER, 1-1/4"
10	642259	8	CORK, thread protecting (1-9/16" diam) (Not illustrated)



REAR PUSHER (For tractors equipped with dozer)

T-39359

REAR PUSHER

USAGE: Special equipment. For tractors equipped with dozer.

* Early units
** Late units

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	617941	1	-	PUSHER, rear
	648551	-	1	PUSHER, rear
2	617069	2	2	CAP, pusher
3	077196	8	8	CAPSCREW, 1"NF x 5-3/4"
4	600236	8	8	NUT, high, 1"NF
5	615912	32	32	SHIM, pusher caps (Use as required)
6	617921	2	2	TRUNNION
	916372	12	12	CAPSCREW, 1"NF x 2-1/2"
	910916	12	12	LOCKWASHER, 1"
7	614585	2	2	PLATE, trunnion mounting, (Requires welding to track frame)
8	078741	1	-	PLATE, supporting
9	047138	4	-	CAPSCREW, 1-1/4"NF x 5"
	904210	4	-	LOCKWASHER, 1-1/4"
10	098145	1	-	BRACKET, supporting plate, left
11	052361	3	-	CAPSCREW, 1-1/4"NF x 4"
	904210	3	-	LOCKWASHER, 1-1/4"
12	098146	1	-	BRACKET, supporting plate, right
13	052361	3	-	CAPSCREW, 1-1/4"NF x 4"
	904210	3	-	LOCKWASHER, 1-1/4"
14	648543	-	1	BLOCK, spacing (Located on drawbar pin)

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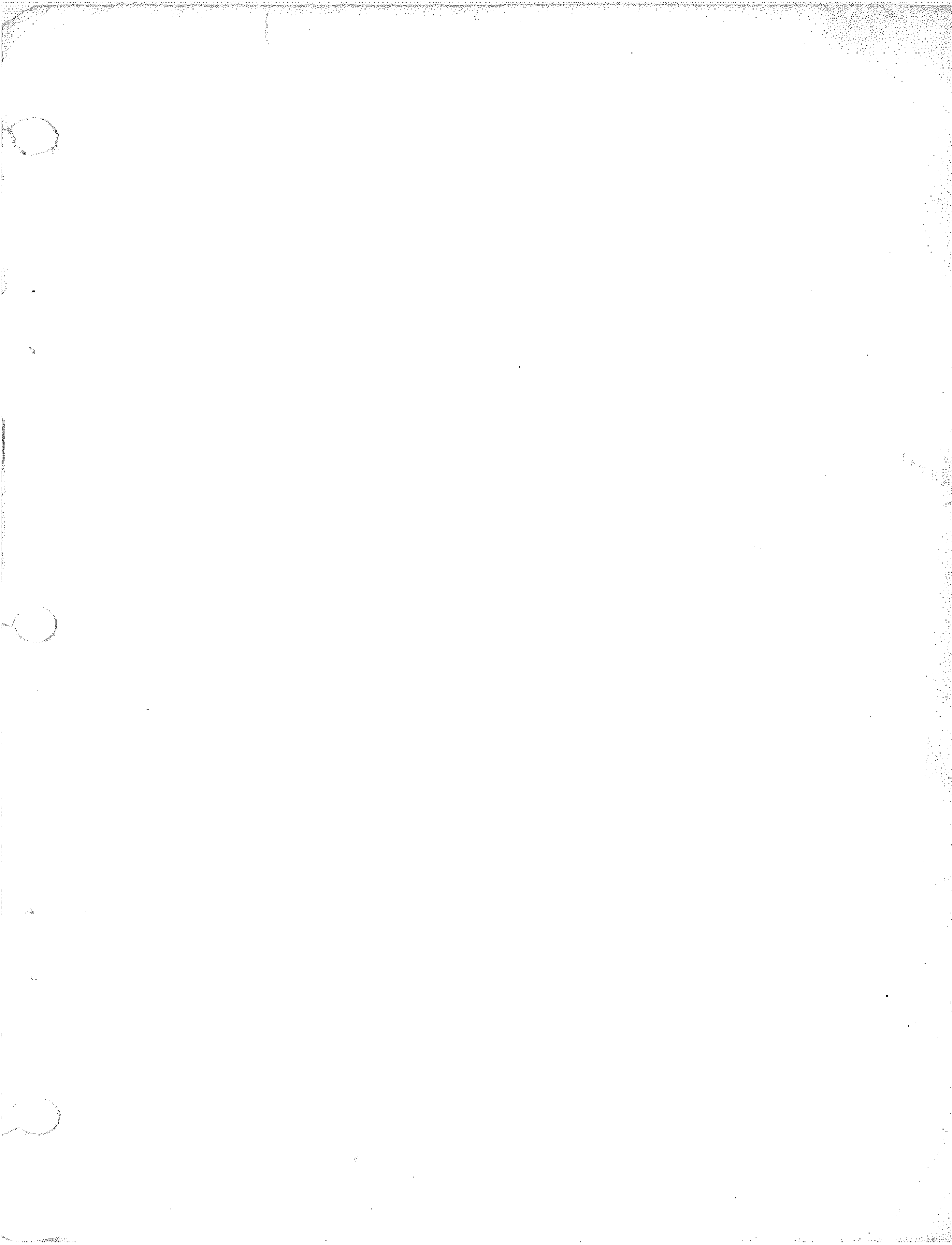
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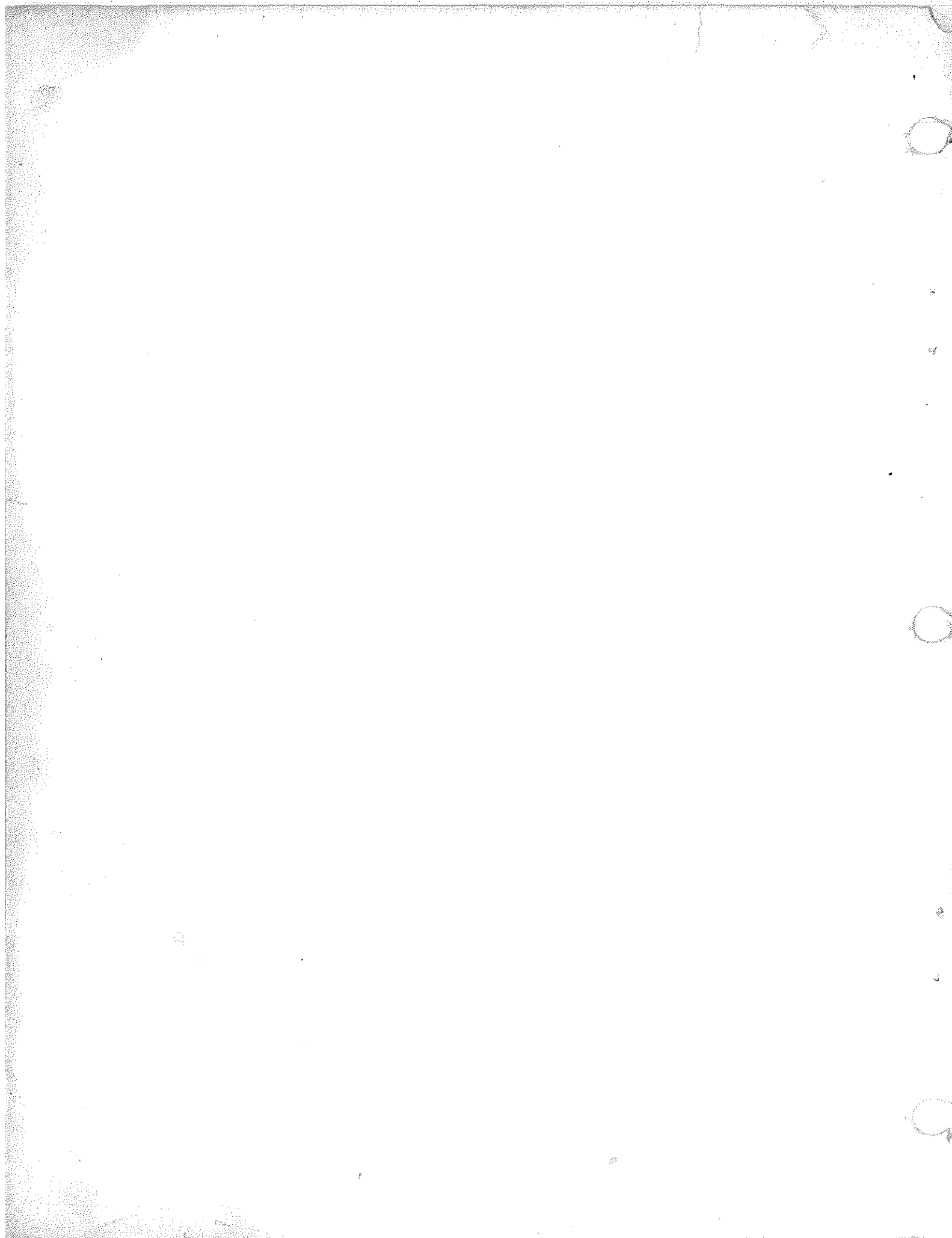
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WEIGHT OF VARIOUS MATERIALS

Material	Approximate Weight		Material	Approximate Weight	
	lbs./cu.yd.	kgs/m ³		lbs./cu.yd.	kgs/m ³
Ashes	1080	640	Gravel		
Asphalt			Loose	2700	1601
Crushed	2250	1335	Gravel and Sand	3000	1779
Basalt			Gravel, Sand and Clay		
Broken	3300	1957	(stabilized)		
Solid	5076	3010	Loose	2700	1601
Bauxite			Compacted	4050	2400
Crushed	4250	2521	Gypsum		
Piled	2150	1275	Crushed	2700	1601
Borax			Hematite		
Powder	2925	1735	Broken	5430	3220
Piled	1425	845	Ice		
Caliche	2430	1440	Solid	1550	920
Cement			Limestone		
Portland	2700	1601	Crushed	2625	1556
Cinders	810	479	Limonite		
Clay			Broken	4159	2466
Dry lumps	1822	1079	Magnetite		
Wet lumps	2700	1601	Broken	5528	3278
Coal			Mud		
Anthracite, broken	1857	1100	Fluid	2916	1669
Bituminous, broken	1413	836	Packed	3200	1898
Earth			Phosphate Rock		
Dry, loose	1890	1120	Broken	2970	1760
Dry, rammed	2430	1440	Rip-Rap		
Dry, shaken	2214	1312	Limestone	2160	1280
Damp, loose	2106	1248	Sandstone	2430	1440
Damp, packed	2592	1537	Shale		
Earth and Gravel			Broken	2430	1440
Dry, loose	2700	1601	Slag		
Dry, rammed	3240	1921	Broken	2970	1760
Wet	3240	1921	Stone		
Earth and Sand			Crushed	2700	1601
Dry, loose	2700	1601	Taconite	4725	2803
Dry, rammed	3240	1921	Trap Rock		
Wet	3240	1921	Broken	2950	1750
Granite					
Crushed	2778	1647			

