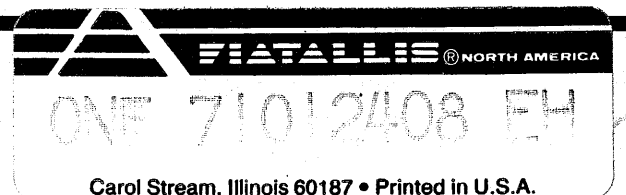




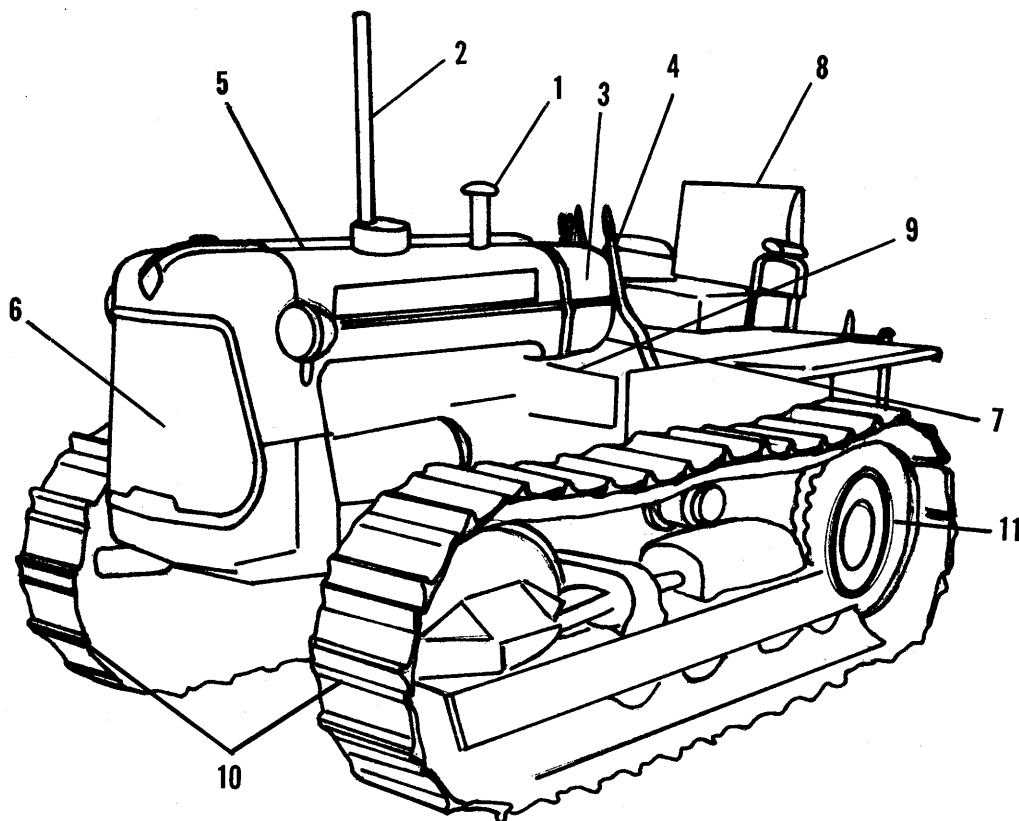
PARTS CATALOG

H-3 & HD-3 CRAWLER TRACTORS

12/12
LITHO U.S.A.



GENERAL DESCRIPTION



- | | |
|---------------------------|---------------------|
| 1. AIR CLEANER | 7. INSTRUMENT PANEL |
| 2. EXHAUST MANIFOLD | 8. OPERATORS SEAT |
| 3. FUEL TANK | 9. PLATFORM |
| 4. SHUTTLE CLUTCH CONTROL | 10. TRACK |
| 5. HOOD, SHELL | 11. TRUCK WHEEL |
| 6. GRILLE | |

FOREWORD

The parts in this catalog are listed in alphabetical order and are located at the front of this catalog.

Except for some common hardware all parts are identified with an item number. Common hardware not identified such as bolts, nuts, cotter pins and lubrication fittings, are listed in the text under the part which they attach or fit into. Note particularly that the quantity of hardware listed is always the quantity required for one part.

Common attaching hardware listed under a part is not included in the assembly or included with the part unless specified. Example: (Incl. Bolt, Lock-washer and Nut).

"Assembly or Packaged Parts" indicates if an individual part is one of many in a large assembly or one of several kinds in a package.

All numbers are listed in the second last section of this catalog showing the quantity and description of the various parts that make up the assembly or package.

The last section of this catalog contains a part number index to indicate on which page or pages a part number appears.

All illustrations will be found to follow the text of each group or section of which it is a part.

For any additional copies of this catalog there will be a supplementing service charge of three dollars. Refer any requests to your Branch House or office under which you operate.

HOW TO ORDER PARTS

Order all parts for this machine from your local ALLIS-CHALMERS Dealer.

When ordering parts for this unit, supply the following information:

1. The tractor and engine serial numbers.
2. The model or name of the unit and its serial number.
3. State the common name of the part you wish to order, or a description of the part and its location on the unit, or bring in old part.
4. Always print your name and post office address, where parts are to be shipped; also specify whether material is to be shipped by freight, express or parcel post.
5. When ordering parts always determine right hand and left hand from a position in the operators seat facing the direction of forward travel. On Backhoe Units Right and Left is determined by facing the Backhoe from the operator seat.

IMPORTANT

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

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

No responsibility is assumed for delay or damage to merchandise while in transit. Our responsibility

ceases upon delivery of shipment to the transportation company, from whom a receipt is received showing that shipment was in good condition when delivered to them; therefore claims (if any) should be filed with the transportation company and not with Allis-Chalmers Manufacturing Company.

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

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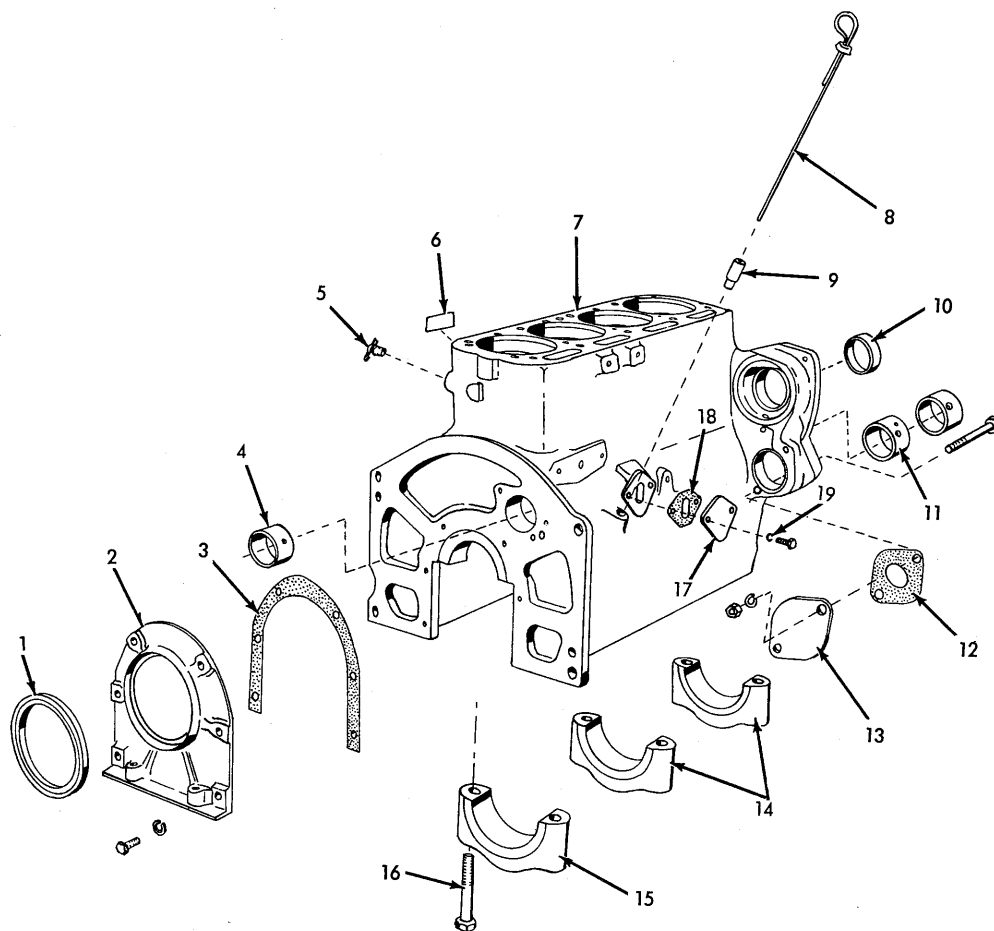
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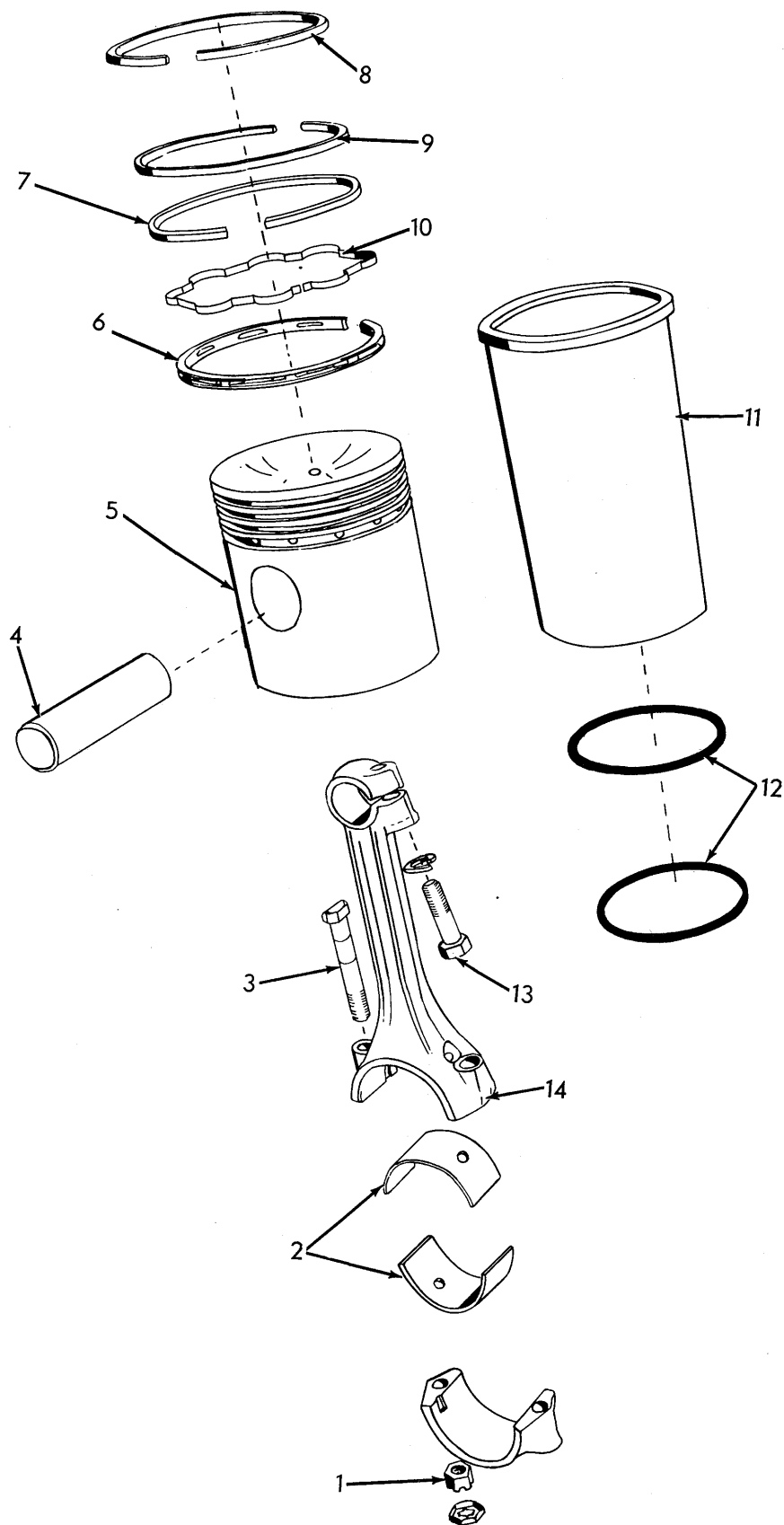
CYLINDER BLOCK
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	227572	1	SEAL, crankshaft, rear	0255342-6
2	227571	1	RETAINER, crankshaft rear seal	
	6 903771		CAPSCREW	
	6 913651		LOCKWASHER	
3	233205	1	GASKET, crankshaft rear seal retainer	0255324-6
4	-----	2	BUSHING, camshaft, front & rear (See Camshaft Group)	
5	918849	1	COCK, drain	
6	-----	1	TRANSFER, instruction, water drain	234052
7	234353	1	BLOCK ASSY., cyl. (Incl. items 4,10,11,14,15) (Used prior to tractor S/N 6959)	
	240035	1	BLOCK ASSY., cyl. (Incl. items 4,10,11,14,15 thru 19) (Eff. w/tractor S/N 6959 & up)	
8	231188	1	ROD ASSY., oil level gauge (Incl. SEAL)	

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CYLINDER BLOCK (Cont'd)
Gasoline

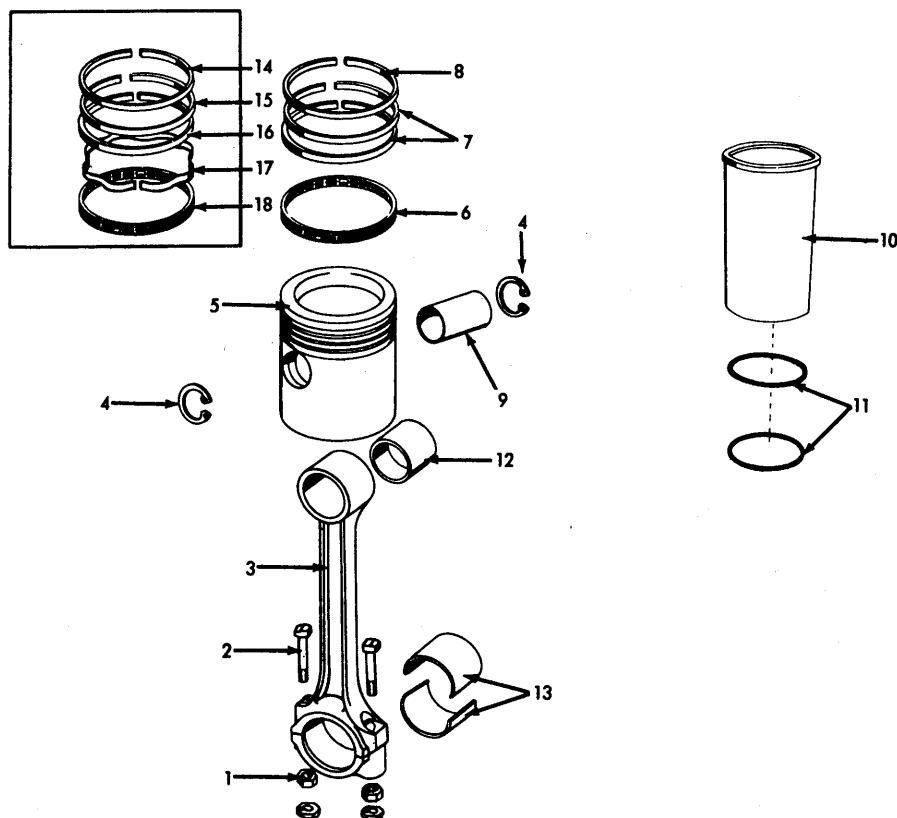
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
9	230331	1	BUSHING, oil level gauge rod	
10	-----	1	BUSHING, governor gear (See Governor Group)	
11	-----	1	BUSHING, camshaft, center (See Camshaft Group)	
12	233207	1	GASKET, oil pump opening cover	0255324-6
13	227574	1	COVER, oil pump opening	
		1	917151 CAPSCREW	
		1	916795 CAPSCREW	
		2	904206 LOCKWASHER	
		2	910123 NUT	
14	234276	2	CAP, main bearing, front & center	
15	234277	1	CAP, main bearing, rear	
16	234939	6	CAPSCREW, main bearing cap	
17	234354	1	COVER, fuel pump	} NOTE: These parts not required when tractor is equipped w/Fuel Pump.
		12	915809 CAPSCREW	
18	234145	1	GASKET, cover	
19	206782	2	WASHER, copper	
20	-----	1	TRANSFER, engine designation (Not Illustrated). .	.234052
-	291445	1	ENGINE ASSY., replacement (160 cu. in. displacement) Does Not Include; flywheel, clutch shaft bearing, crankshaft pulley, engine supports, carburetor linkage, carburetor, clutch, air cleaner, starting motor, generator or fan.	



PISTON & CONNECTING ROD

PISTON & CONNECTING ROD
Gasoline (149 Cu. In. Engine)
Used Prior to Tractor S/N 6959

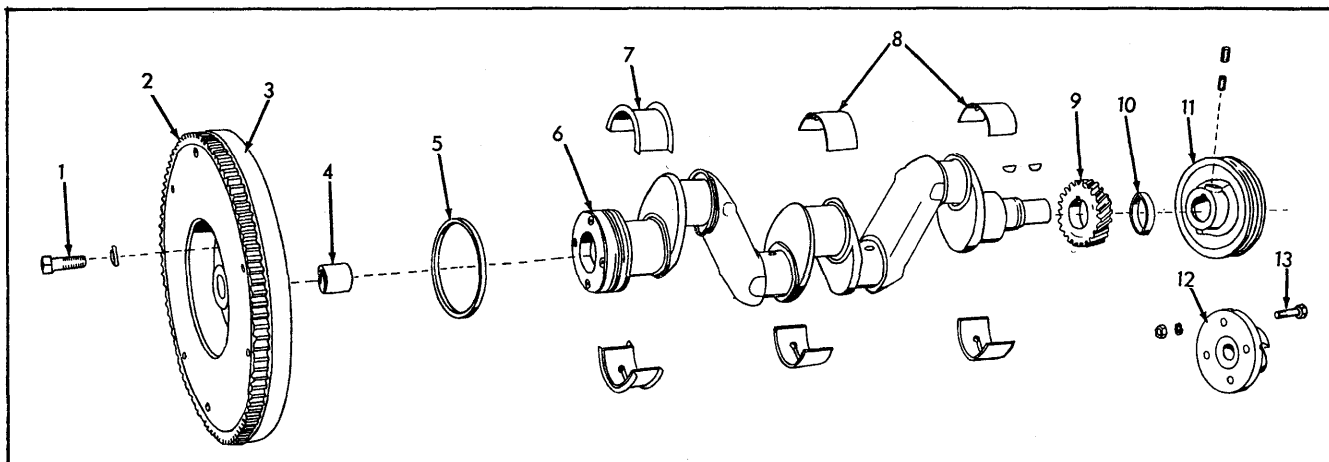
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	225672	8	NUT, bearing cap bolt 1 914393 NUT, lock	
2	0237802-4	4	BEARING, conn. rod, std. (2 halves) (Replaces 228486)	
	0237814-9	4	BEARING, conn. rod, .001" U/S (2-halves) (Replaces 228638)	
	0237815-6	4	BEARING, conn. rod, .0025" U/S (2-halves) (Replaces 232161)	
3	235787	8	BOLT, bearing cap (Supersedes 225671)	
4	207441	4	PIN, piston	
5	229739	4	PISTON ASSY., 7.5:1 ratio, gasoline (Incl. item 4).	284393
6	227566	4	RING, channel oil, piston	284393, 0230092-9
	230200	4	RING, oil (Chrome)	230092
7	230198	4	RING, compression, third (Chrome)	230092
8	230197	4	RING, compression, top (Chrome)	230092
9	227564	12	RING, compression.	284393, 230092, 0230092-9
10	230199	4	EXPANDER, third (Chrome).	230092
11	227562	4	LINER, cylinder	284393
12	227563	8	RING, packing, cylinder liner	284393
13	207534	4	CAPSCREW, clamping, piston pin 4 904206 LOCKWASHER	284393
14	235788	4	ROD ASSY., connecting (Incl. items 1 & 3) (Supersedes 227557)	



PISTON & CONNECTING ROD
Gasoline (160 cu. in. Engine)
Eff. w/tr. S/N 6959 & up

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	225672	8	NUT, bearing cap bolt 1 914393 NUT, lock, pltd., 3/8"	
2	235787	8	BOLT, bearing cap	
3	237631	4	ROD ASSY., connecting (Incl. items 1, 2 & 12)	
4	4514586	8	LOCK, piston pin	.285335
5	237644	4	PISTON ASSY., 8:1 ratio, gasoline (Incl. item 9)	.285335
6	237650	4	RING, channel oil, piston	.285335
7	237649	8	RING, compression, second & third.	.285335
8	237648	4	RING, compression, top	.285335
9	237645	4	PIN, piston	
10	237646	4	LINER, cylinder.	.285335
11	237647	8	RING, packing, cylinder liner	.285335
12	4507127	4	BUSHING, piston pin	
13	237802	4	BEARING, conn. rod, std. (2 halves)	.240921
	237814	4	BEARING, conn. rod, .001" U/S (2 halves)	
	237815	4	BEARING, conn. rod, .0025" U/S (2 halves)	
14	237648	4	RING, top compression	.248293
15	237649	4	RING, 2nd compression	.248293
16	248435	4	RING, 3rd compression	.248293
17	248436	4	EXPANDER, 3rd compression	.248293
18	237650	4	RING, oil control	.248293

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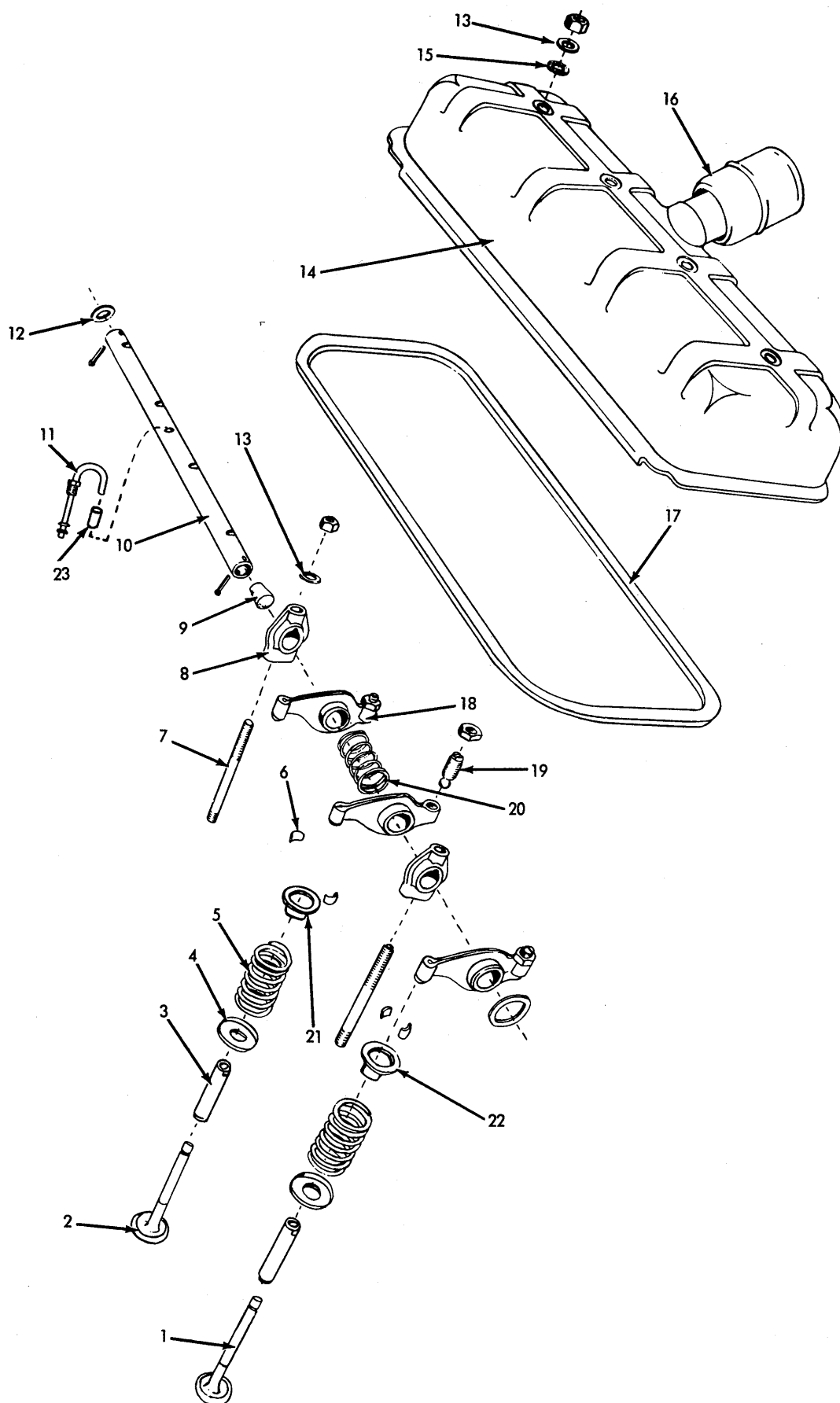
CRANKSHAFT & FLYWHEEL
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	210151	4	CAPSCREW, flysheel 4 904207 LOCKWASHER	
2	233196	1	GEAR, ring, 116T	
3	237065	1	FLYWHEEL ASSY., (Incl. items 2 & 4)(Eff. w/ Tractor S/N 6959 & up)	
	233197	1	FLYWHEEL ASSY., (Incl. items 2 & 4)(Used prior to Tractor S/N 6959)	
4	228188	1	BUSHING, clutch shaft	
5	227572	1	SEAL, crankshaft, rear.	0255324-6, 0255326-1
6	-----	1	CRANKSHAFT KIT, std. (Used prior to Tractor. . . S/N 6959)	0240921-7
	-----	1	CRANKSHAFT KIT, std. (Eff. w/ Tractor S/N. . . 6959 & up)	240921
7	237831	1	BEARING, main, rear, std. (2 halves)	0240921-7
	237827	1	BEARING, main, rear, .001" U/S (2 halves)	
	237829	1	BEARING, main, rear, .0025" U/S (2 halves)	
8	237830	1	BEARING, main, front & center std. (2 halves) . .	0240921-7
	237823	1	BEARING, main, front & center .001" (2 halves)	
	237825	1	BEARING, main, front & center .0025" (2 halves)	
9	227552	1	GEAR, crankshaft.	0240921-7
	1 910184		KEY, woodruff.	0240921-7

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CRANKSHAFT & FLYWHEEL (Cont'd)
Gasoline

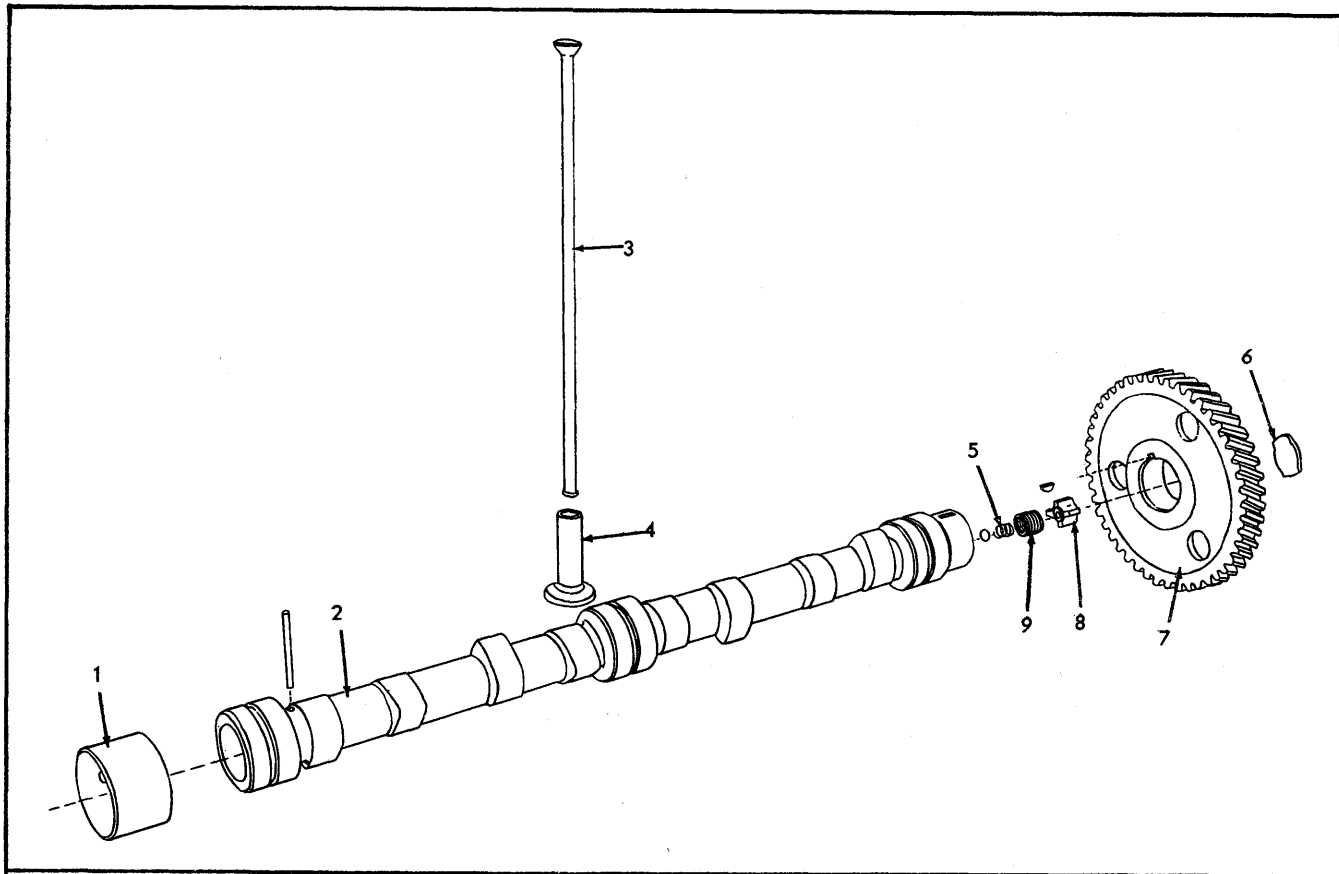
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
10	226620	1	SEAL, crankshaft, front	0255324-6, 0255326-1
11	235043	1	PULLEY, crankshaft	
		1	919774 KEY, woodruff	
		2	902870 SETSCREW	
12	237192	1	ADAPTER, crank (f/front mounted pump)	
13	230717	4	CAPSCREW, crank adapter	
		1	904207 LOCKWASHER	
		1	911042 NUT	



VALVES & ROCKER ARMS

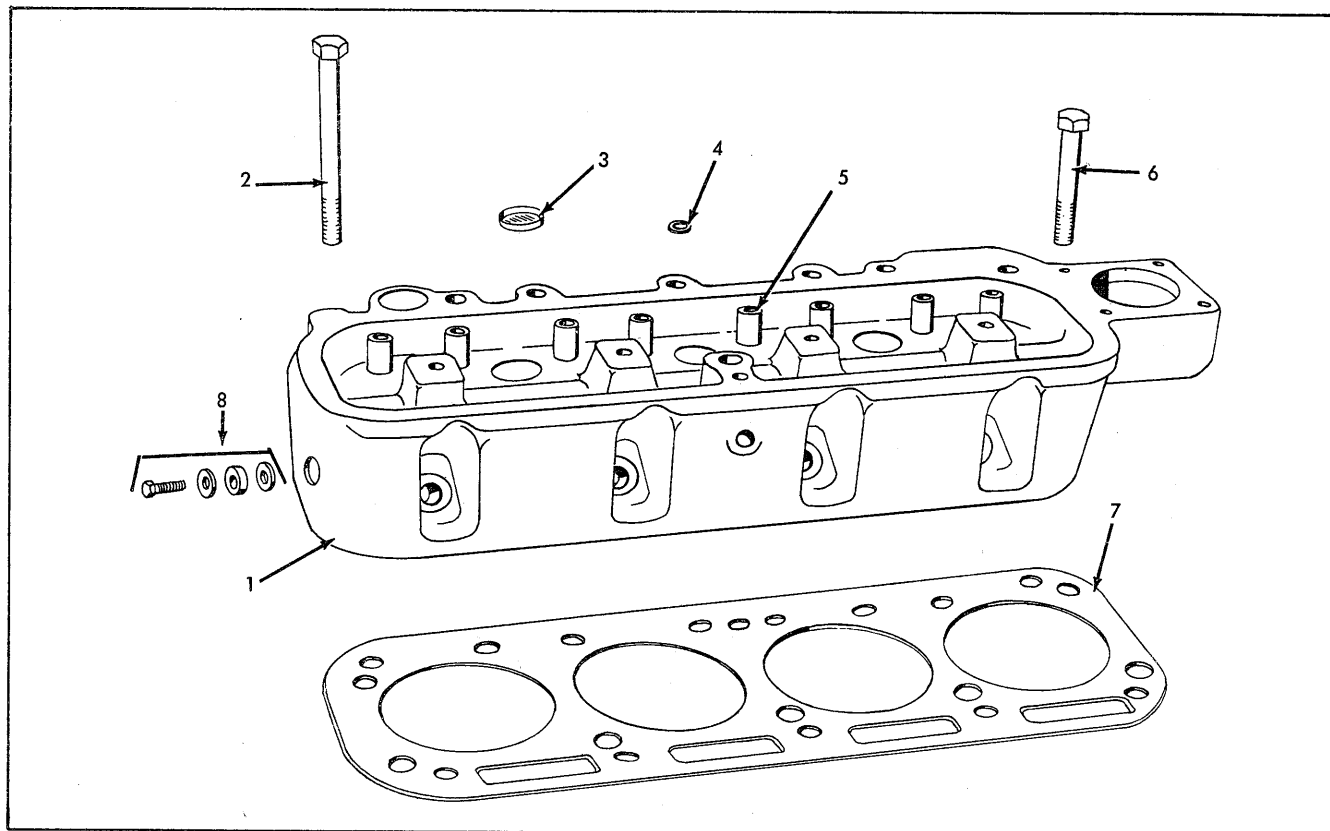
VALVES & ROCKER ARMS
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	228589	4	VALVE, exhaust	
2	234829	4	VALVE, intake (Supersedes 231672)	
3	234824	8	GUIDE, intake & exhaust valve (Supersedes 226000)	
4	218124	8	SEAT, valve spring	
5	233850	8	SPRING, valve	
6	206880	16	LOCK, spring retainer (half)	
7	224733	4	STUD, rocker arm support 1 910123 NUT	
8	239791	4	SUPPORT, rocker arm shaft (Supersedes 227627)	
9	212004	2	STOPPER, rocker arm shaft, cork	
10	228536	1	SHAFT ASSY., rocker arm (Incl. Item 9 & C-PINS) 2 900808 PIN, cotter	
11	227636	1	TUBE, oil, rocker arm shaft 1 913526 NUT	
12	203009	2	WASHER, rocker arm shaft	
13	911115	8	WASHER, support stud	
14	228770	1	COVER, rocker arm	
15	226477	4	PACKING, cover stud	0255326-1, 0255325-3
16	203196	1	CAP, breather	
17	0255296-6	1	GASKET, rocker arm cover (Replaces 232334)	0255326-1, 0255325-3
18	{ 234781	4	ARM ASSY., rocker, L.H. (Incl. Item 19 & NUT) (Supersedes 228520)	
	{ 234780	4	ARM ASSY., rocker, R.H. (Incl. Item 19 & NUT) (Supersedes 228521)	
19	206888	8	SCREW, rocker arm adjusting 1 912795 NUT	
20	203011	3	SPRING, rocker arm spacing	
21	206881	4	RETAINER, valve spring, intake	
22	224926	4	ROTO-CAP, exhaust valve	
23	237637	1	SLEEVE, rocker arm oil tube	



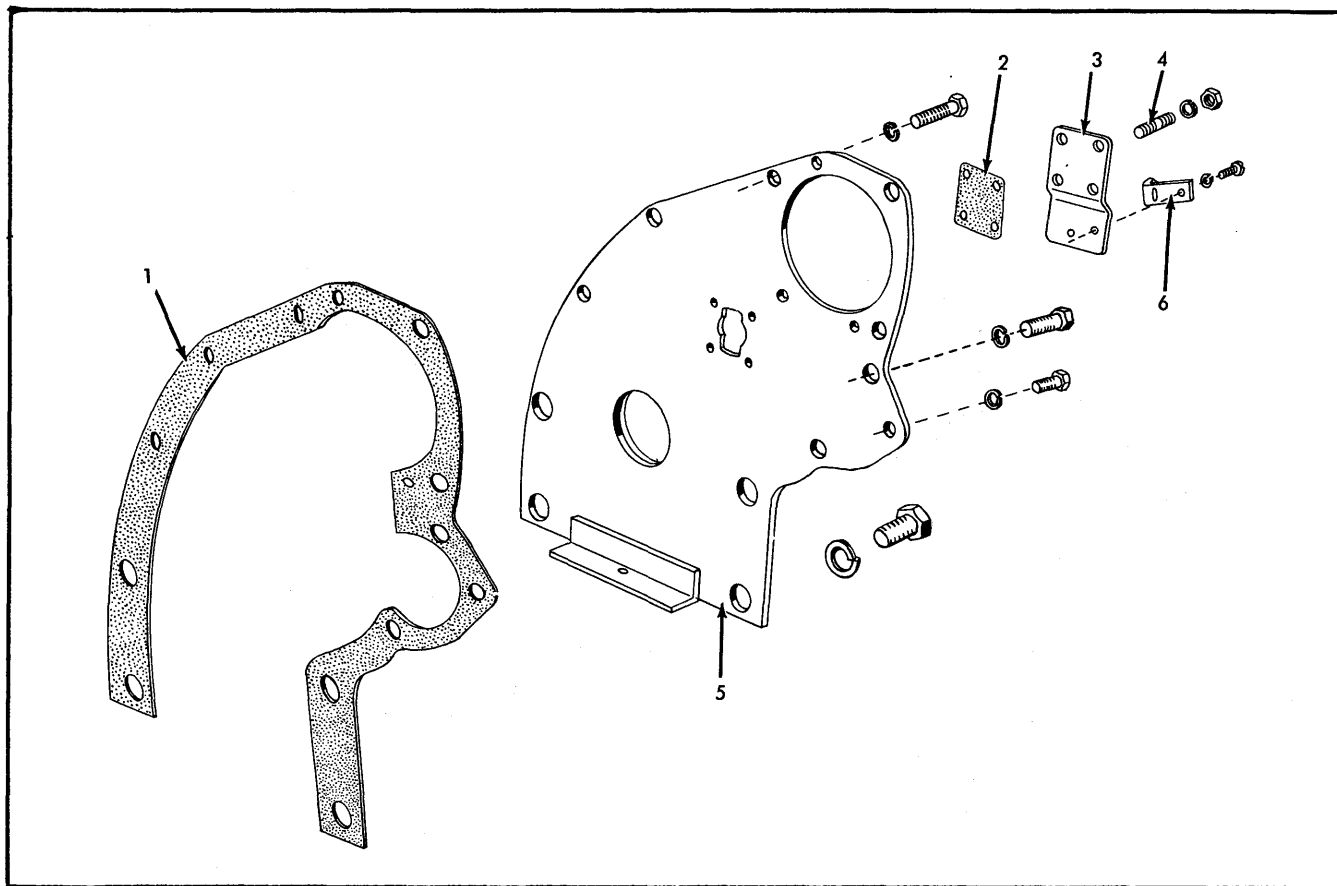
CAMSHAFT
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	209130	2	BUSHING, camshaft, front & rear, std.	
	233528	1	BUSHING, camshaft, center, std.	
2	233454	1	CAMSHAFT, engine 1 910946 PIN, plain	
3	227633	8	ROD, push	
4	206890	8	TAPPET, valve	
5	231529	1	SPRING, oil relief valve 1 905365 BALL, steel	
6	228158	1	PLATE, thrust	
7	207422	1	GEAR, camshaft 1 910184 KEY, woodruff	
8	229592	1	PLUNGER, thrust (Used prior to Tr. S/N 6959)	
	242192	1	PLUNGER, thrust (Eff. w/ Tr. S/N 6959 & up)	
9	248970	1	SPRING, thrust	



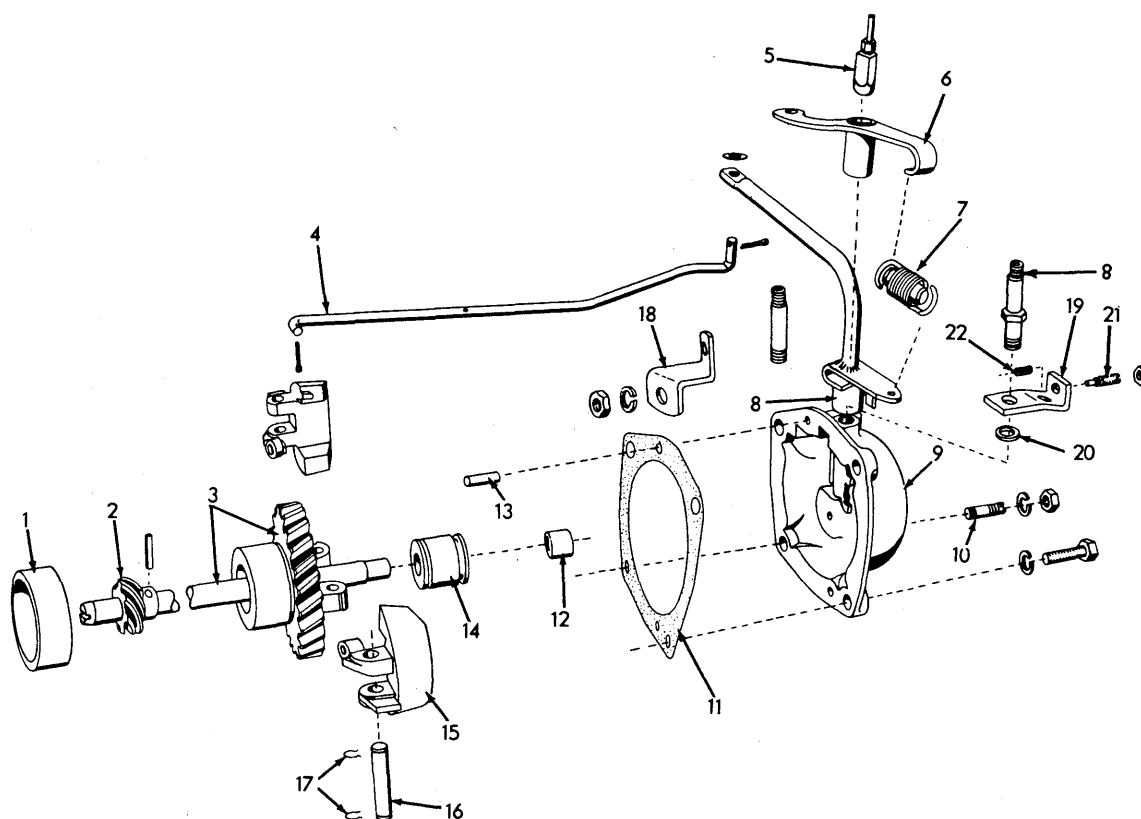
CYLINDER HEAD
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	241591	1	HEAD ASSY., cyl. (Incl. items 3 & 5)(Eff. w/Tr. S/N 6959 & up)	
	233705	1	HEAD ASSY., cyl. (Incl. items 3 & 5)(Used prior to Tr S/N 6959)	
2	231993	8	CAPSCREW, cyl. head, long (Use prior to Tr. S/N 6959)	
	237833	7	CAPSCREW, (Eff. w/Tr. S/N 6959 & up)	
	922477	1	CAPSCREW, cyl. head, long (Eff. w/Tr. S/N 6959 & up)	
3	230318	3	PLUG, core hole	
4	229754	1	WASHER, cyl. head capscREW	
5	234824	8	GUIDE, valve (Supersedes 226000)	
6	231992	4	CAPSCREW, cyl. head, short (Prior to Tr. S/N 6959)	
	922478	4	CAPSCREW, cyl. head, short (Eff. w/Tr. S/N 6959)	
7	227577	1	GASKET, cyl, head (Prior to Tr. S/N 6959) . . .	0255326-1, 0255325-3
	237642	1	GASKET, cyl. head (Eff. w/Tr. S/N 6959). . .	0255324-6, 0255323-8
8	233155	1	PLUG ASSY., cleanout (Not required on later models)	



TIMING GEAR COVER
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	233204	1	GASKET, timing gear cover	0255326-1
2	248969	1	GASKET, thrust cover	0255326-1
3	235044	1	COVER, thrust, camshaft	
4	218288	4	STUD, thrust plate cover	
		4	904204 LOCKWASHER	
		4	911040 NUT	
5	232322	1	COVER ASSY., timing gear	
		4	913828 CAPSCREW (lower)	
		4	904209 LOCKWASHER (lower)	
		3	915809 CAPSCREW (center)	
		3	904205 LOCKWASHER (center)	
6	235045	1	POINTER, timing	
		2	912731 SCREW, machine	
		2	912739 LOCKWASHER	



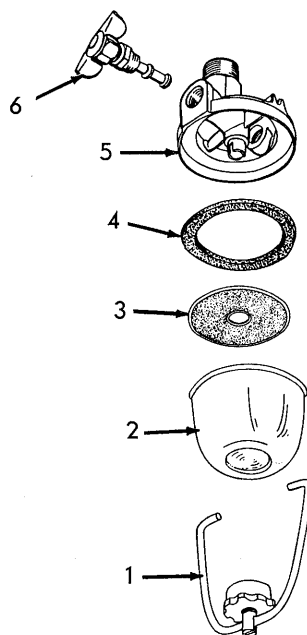
GOVERNOR
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	210689	1	BUSHING, governor gear	
2	225353	1	GEAR, drive, distributor, 6T	
		1	915796 PIN	
3	228136	1	SHAFT ASSY., governor (Incl. GEAR)	
4	211948	1	LINK, carburetor	
		1	911114 WASHER, plain (front)	
		2	900970 PIN, cotter	
5	228138	1	TEE, oil tube (Incl. 2 SLEEVES & NUTS)	
		2	911841 SLEEVE	
		2	912589 NUT	
6	232338	1	LEVER ASSY., control rod (Supersedes 212318)	
7	234449	1	SPRING, governor, (1650 RPM) (Incl. PLUNGER) (Used prior to Tr. S/N H3-8694)	
	223569	1	SPRING, governor, (1800 RPM) (Eff. w/Tr. S/N H3-8694)	
8	234109	1	PIN, pivot, control rod lever	
9	234107	1	HOUSING ASSY., governor (Incl. SPRING LEVER, CROSS SHAFT COLLAR, CROSS SHAFT BUSHING, CROSS SHAFT, FORK & Item 13)	
		3	905662 CAPSCREW	
		3	904205 LOCKWASHER	

Continued

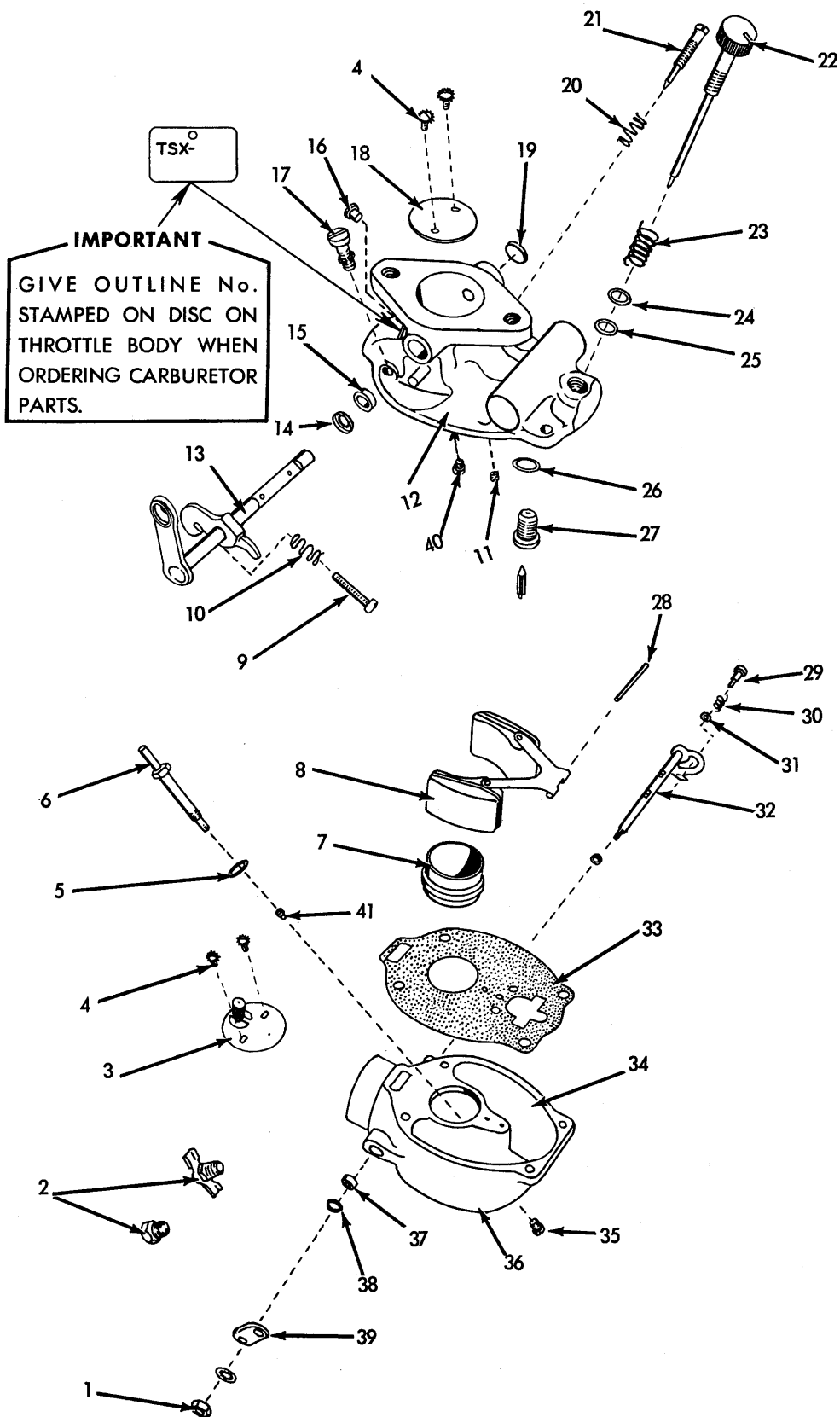
GOVERNOR (Cont'd)
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
10	207402	1	STUD, housing 1 904205 LOCKWASHER 1 910323 NUT	
11	233213	1	GASKET, housing.	0255326-1
12	207714	1	BUSHING, governor shaft, front	
13	915796	2	PIN, dowel, housing	
14	208875	1	BEARING, ball, thrust	
15	233928	2	WEIGHT ASSY., governor (Incl. RISER PIN)	
16	207718	2	PIN, pivot, weight	
17	207719	4	CLIP, weight pivot pin	
18	234114	1	BRACKET, governor, adjustment 1 904206 LOCKWASHER 1 910324 NUT 1 905657 CAPSCREW 1 910880 NUT	
19	234110	1	BRACKET, bumper spring	
20	234111	1	WASHER, pivot pin	
21	234112	1	SCREW, bumper spring 1 920437 NUT, jam	
22	4614092	1	SPRING, bumper	



FUEL FILTER
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	237944	1	FILTER ASSY., fuel (Incl. all items in this group) (Eff. w/Tr. S/N 2450 & up)	
	207599	1	FILTER ASSY., fuel (Incl. all items in this group) (Prior to Tr. S/N 2450)	
1	223247	1	BAIL ASSY., fuel bowl (Incl. STUD, NUT & CUP)	
2	237945	1	BOWL (Glass)	
	218683	1	BOWL (Metal)	
3	212423	1	ELEMENT, filter (Used Prior to Tr. S/N 2450)	
	235555	1	ELEMENT, filter (Eff. w/Tr. S/N 2450 & up)	
4	208362	1	GASKET, bowl	
5	-----	1	HEAD, filter (Not serviced; use Filter Assy.)	
6	223255	1	VALVE ASSY., filter	



CARBURETOR (Used Prior to Tr. S/N 6959)

CARBURETOR
Marvel-Schebler
Used Prior to Tr. S/N 6959

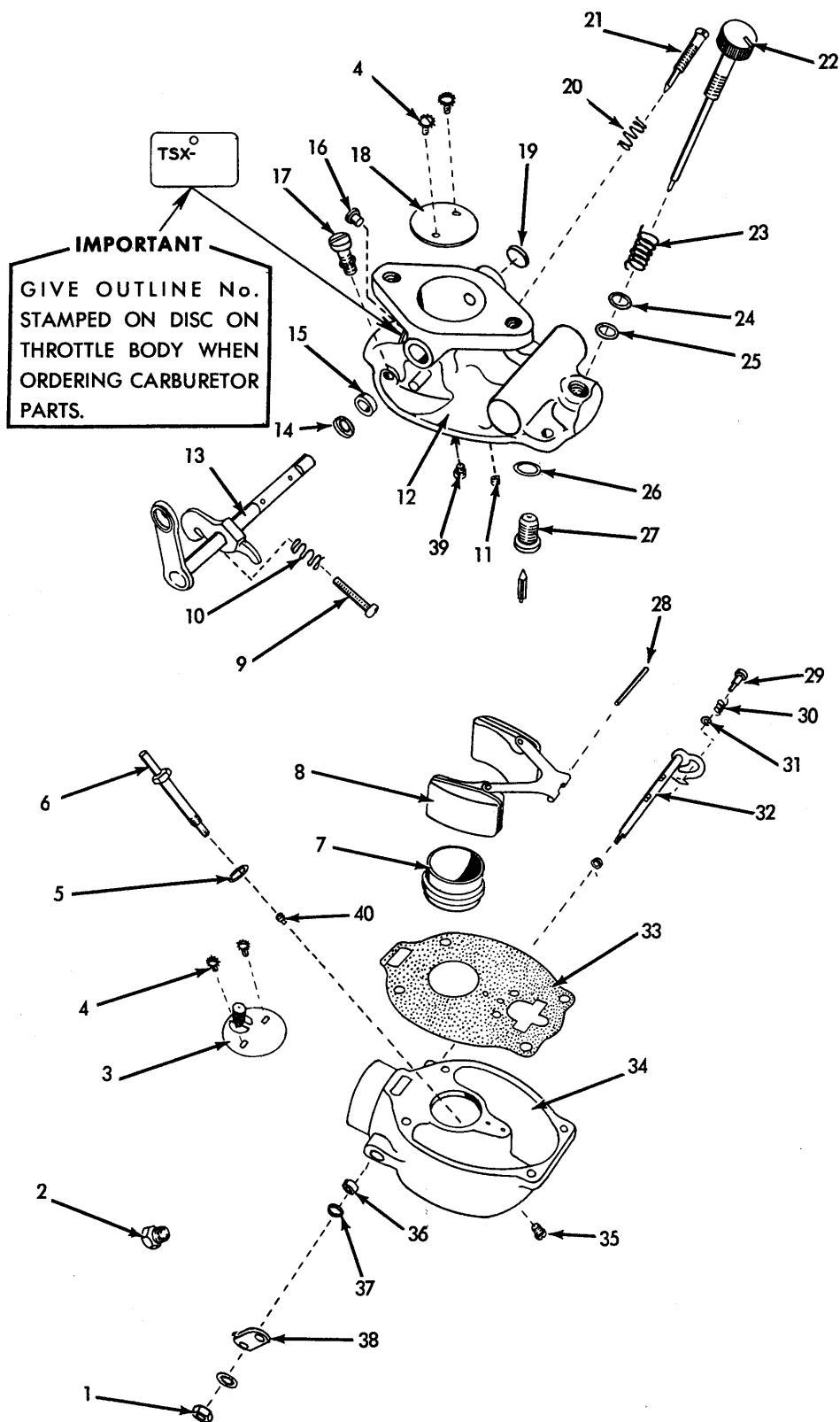
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	234228	1	CARBURETOR ASSY. (Gasoline & Low Octane Fuel) (Model TSX-815)	
1	219996	1	NUT, choke shaft 1 909367 LOCKWASHER	
2	{ 224061	1	PLUG, drain, fuel bowl	
	{ 915514	1	COCK, drain, fuel bowl	
3	229611	1	PLATE ASSY., choke (Incl. FLAPPER & SPRING)	
4	219973	4	SCREW, choke & throttle plate (Incl. LOCKWASHER)	234507
5	219999	1	GASKET, power jet	234507, 220009
6	229614	1	NOZZLE, power jet	
7	229615	1	VENTURI	
8	219985	1	FLOAT ASSY.	
9	220000	1	SCREW, stop, throttle lever	234507
10	219977	1	SPRING, throttle stop screw	234507
11	220006	1	JET, idling.	234507
12	234463	1	BODY ASSY., throttle (Incl. Items 4, 9, 10, 13, 16, 18, 19, 37 & 38)	
13	229609	1	SHAFT ASSY., throttle (Incl. Items 9, 10 & . . . LEVER)	234507
14	219968	1	RETAINER, throttle shaft seal	234507
15	224949	1	SEAL, throttle shaft.	234507
16	800465	1	PLUG, throttle body	
17	219972	4	SCREW, fuel bowl to throttle body (Incl. LOCKWASHER)	
18	229608	1	PLATE, throttle	
19	219992	1	CUP, throttle shaft hole	234507
20	219978	1	SPRING, idle adjusting needle	234507
21	219987	1	NEEDLE, idle adjusting	234507
22	0245000-5	1	NEEDLE ASSY., high speed (Replaces 224855)	
23	224854	1	SPRING, high speed needle	
24	219994	1	WASHER, high speed needle	
25	219995	1	GASKET, high speed needle	234507, 220009

Continued

CARBURETOR (Cont'd.)
Marvel-Schebler
Used Prior to Tr. S/N 6959

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
26	219998	1	GASKET, float valve seat	234507, 220009
27	220003	1	VALVE ASSY., float (Incl. SEAT & Item 26) . . .	234507
28	219986	1	SHAFT, float lever	234507
29	219975	1	SCREW, choke friction lever	
30	219979	1	SPRING, choke friction lever	
31	219997	1	WASHER, friction lever screw	
32	229612	1	SHAFT ASSY., choke (Incl. FRICTION LEVER)	
33	219976	1	GASKET, throttle body to bowl	234507, 220009
34	229610	1	BOWL ASSY., fuel (Incl. Items 14, 15, 35 & 36)	
35	224967	1	PLUG, power jet opening	
36	219967	1	STRAINER, drain, air intake	
37	219969	2	PACKING, choke shaft	234507
38	219968	1	RETAINER, choke shaft packing	234507
39	231433	1	LEVER, choke (Incl. Items 24, 25, 26)	
40	234462	1	JET, economizer	234507
41	229613	1	JET, power	234507

MEMO



CARBURETOR (Eff. w/Tr. S/N 6959 & up)

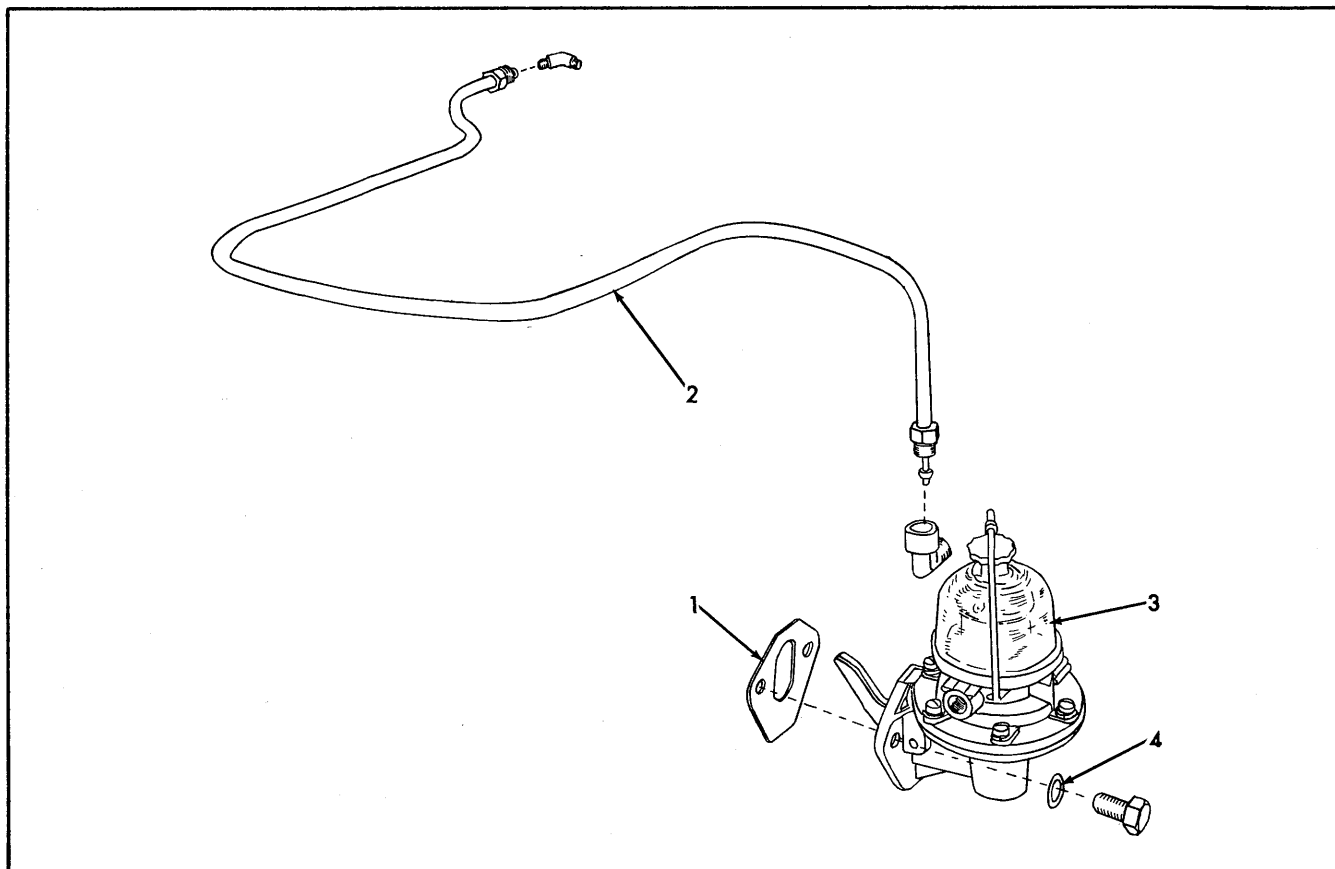
CARBURETOR
Marvel-Schebler
Eff. w/Tr. S/N 6959 & Up

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	0256157-5	1	CARBURETOR ASSY., (Gasoline) (Replaces 241102)	
1	219996	1	NUT, choke shaft 1 909367 LOCKWASHER	
2	800627	1	PLUG, drain, fuel bowl	
3	244999	1	PLATE ASSY., choke (Incl. FLAPPER & SPRING)	
4	219973	4	SCREW, choke & throttle plate (Incl. LOCKWASHER)	
5	219999	1	GASKET, power jet	220009
6	245002	1	NOZZLE, power jet	
7	245001	1	VENTURI	
8	219985	1	FLOAT ASSY.	
9	220000	1	SCREW, stop, throttle lever	
10	219977	1	SPRING, throttle stop screw	
11	245003	1	JET, idling	
12	245005	1	BODY ASSY., throttle	
13	229609	1	SHAFT ASSY., throttle (Incl. Items 9, 10 & LEVER)	
14	219968	1	RETAINER, throttle shaft seal	
15	234949	1	PACKING, throttle shaft	
16	800465	1	PLUG, throttle body	
17	219972	4	SCREW, fuel bowl to throttle body (Incl. LOCKWASHER)	
18	229608	1	PLATE, throttle	
19	219992	1	CUP, throttle shaft hole	
20	219978	1	SPRING, idle adjusting needle	
21	219987	1	NEEDLE, idle adjusting	
22	0245000-5	1	NEEDLE ASSY., high speed (Replaces 224885)	
23	224854	1	SPRING, high speed needle	
24	219994	1	WASHER, high speed needle	
25	219995	1	GASKET, high speed needle	220009
26	219998	1	GASKET, float valve seat	220009
27	220003	1	VALVE ASSY., float (Incl. SEAT & Item 26)	

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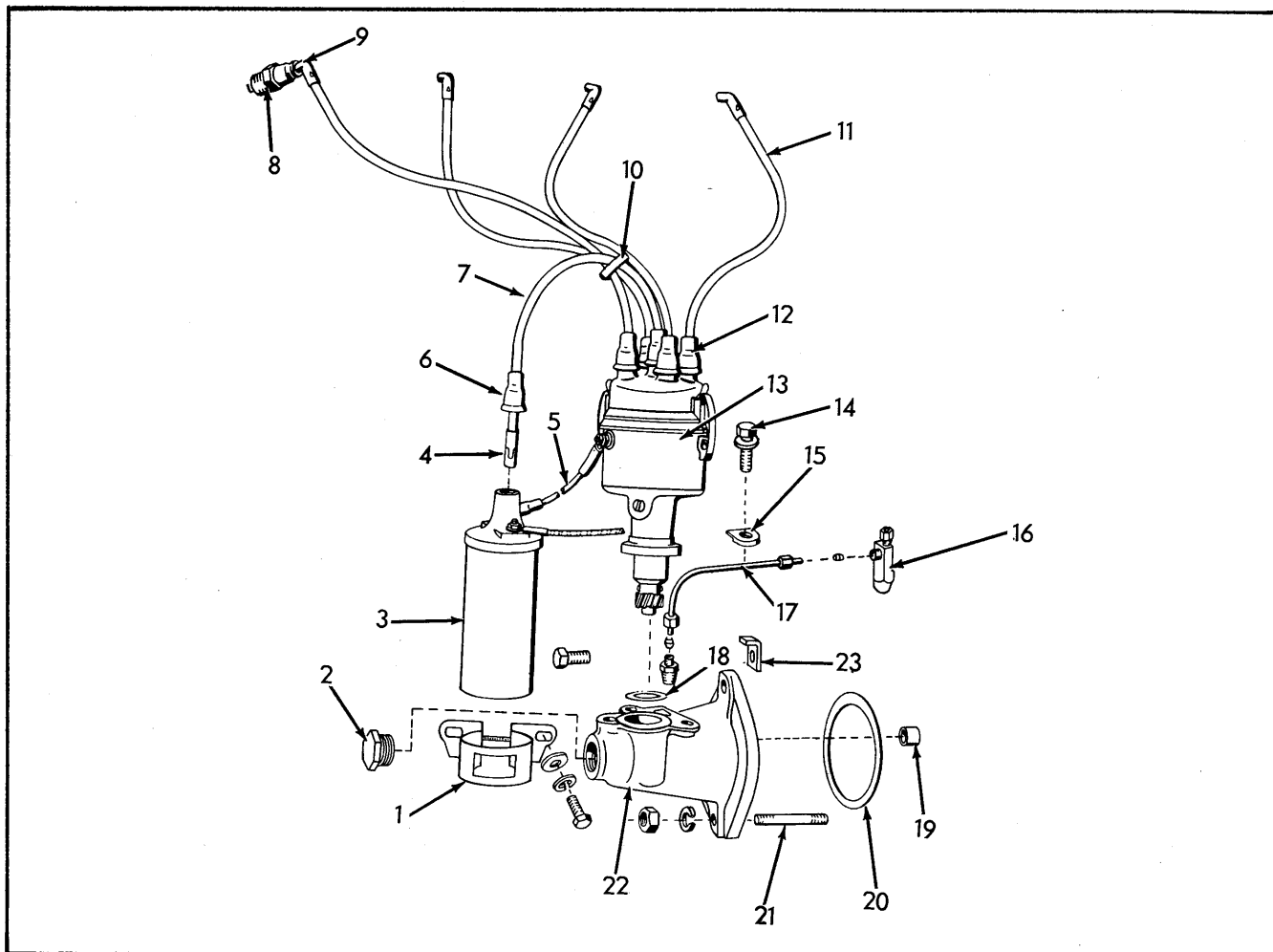
CARBURETOR (Cont'd)
Marvel-Schebler
Eff. w/Tr. S/N 6959 & Up

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
28	219986	1	SHAFT, float lever	
29	219975	1	SCREW, choke friction lever	
30	219979	1	SPRING, choke friction lever	
31	219997	1	WASHER, friction lever screw	
32	229612	1	SHAFT ASSY., choke (Incl. FRICTION LEVER)	
33	219976	1	GASKET, throttle body to bowl.	220009
34	244998	1	BOWL ASSY., fuel (Incl. Items 14, 15 & 35)	
35	224967	1	PLUG, power jet opening	
36	219969	2	PACKING, choke shaft	
37	219968	1	RETAINER, choke shaft packing	
38	231433	1	LEVER, choke (Incl. Items 24, 25, 26)	
39	245004	1	JET, economizer	
40	219991	1	JET, power	
41	220009	1	GASKET SET , carburetor	} Not Illustrated
42	245017	1	KIT, carburetor repair	
43	245000	1	NEEDLE ASSY., main adj.	



FUEL PUMP
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234145	1	GASKET, fuel pump	
2	234144	1	LINE, fuel - pump to carburetor	
		1	913039 ELBOW, male	
		1	917418 ELBOW, male 45°	
3	236893	1	PUMP ASSY., fuel * (Supersedes 225006)	
		2	915809 CAPSCREW	
			NOTE: Order parts and service from United Motors Service Agency.	
4	206782	2	WASHER, copper, pump capscREW	



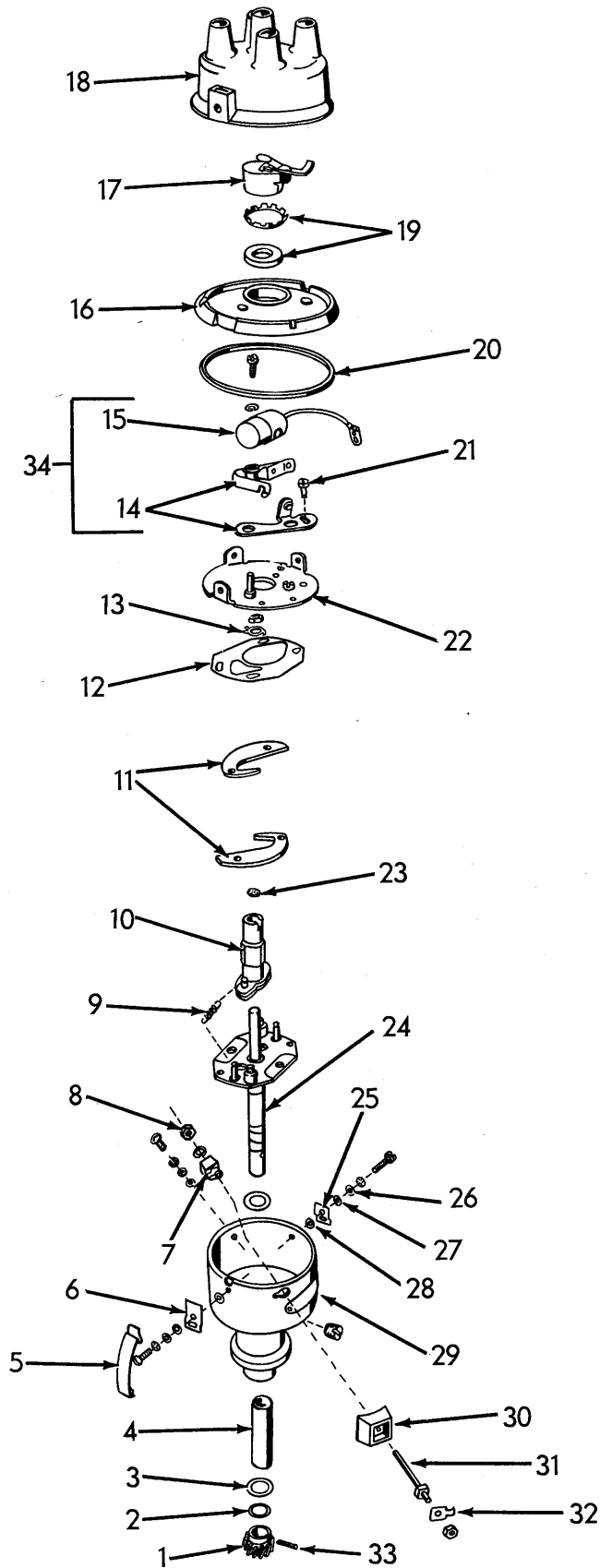
IGNITION
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	225606	1	CLAMP ASSY., coil (Incl. SCREW which is not serviced separately)	
	2	905661	CAPSCREW	
	2	904205	LOCKWASHER	
	1	910335	WASHER, plain	
2	228141	1	PLUG, distributor drive housing	
3	229518	1	COIL ASSY., ignition (Incl. Item 1)	
4	912803	6	TERMINAL, cable (Coil & Distributor End)	
5	228131	1	CABLE, primary, distributor to coil	
6	225073	1	NIPPLE, cable (f/coil)	
7	-----	1	CABLE, secondary, coil to distributor	229867
8	225010	4	PLUG, spark (Auto-Lite)	
	224990	4	PLUG, spark (A-C)	
	225000	4	PLUG, spark (Champion)	

Continued

IGNITION (Cont'd.)
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
9	206460	4	TERMINAL, spark plug cable (plug end)	
10	203203	1	RETAINER, cable	
11	-----	2	CABLE, spark plug, No. 1 & 2 cylinder	229867
	-----	1	CABLE, spark plug, No. 3 cylinder	229867
	-----	1	CABLE, spark plug, No. 4 cylinder	229867
12	225484	5	NIPPLE, cable (f/distributor)	
13	-----	1	DISTRIBUTOR ASSY. (See Distributor Group)	
14	226683	2	CAPSCREW, distributor clamp (Incl. LOCKWASHER)	
15	225344	2	CLAMP, distributor to drive housing	
16	228138	1	TEE, oil tube (Incl. SLEEVE & NUTS)	
		2	911841 SLEEVE	
		2	912589 NUT	
17	226007	1	TUBE, oil	
		1	910125 CONNECTOR (Incl. SLEEVE & NUT)	
		2	911841 SLEEVE	
		2	912589 NUT	
18	233211	1	GASKET, distributor base to drive housing	0255326-1
19	225348	1	BUSHING, governor shaft, rear	
20	233212	1	GASKET, drive housing to cylinder block	0255326-1
21	232126	1	STUD, drive housing	
		1	904206 LOCKWASHER	
		1	910324 NUT	
22	228500	1	HOUSING ASSY., distributor drive (Incl. Item 19)	
23	207430	1	CLIP, drive housing	
		1	912943 CAPSCREW	
--	-----	1	CABLE SET, spark plug	



DISTRIBUTOR

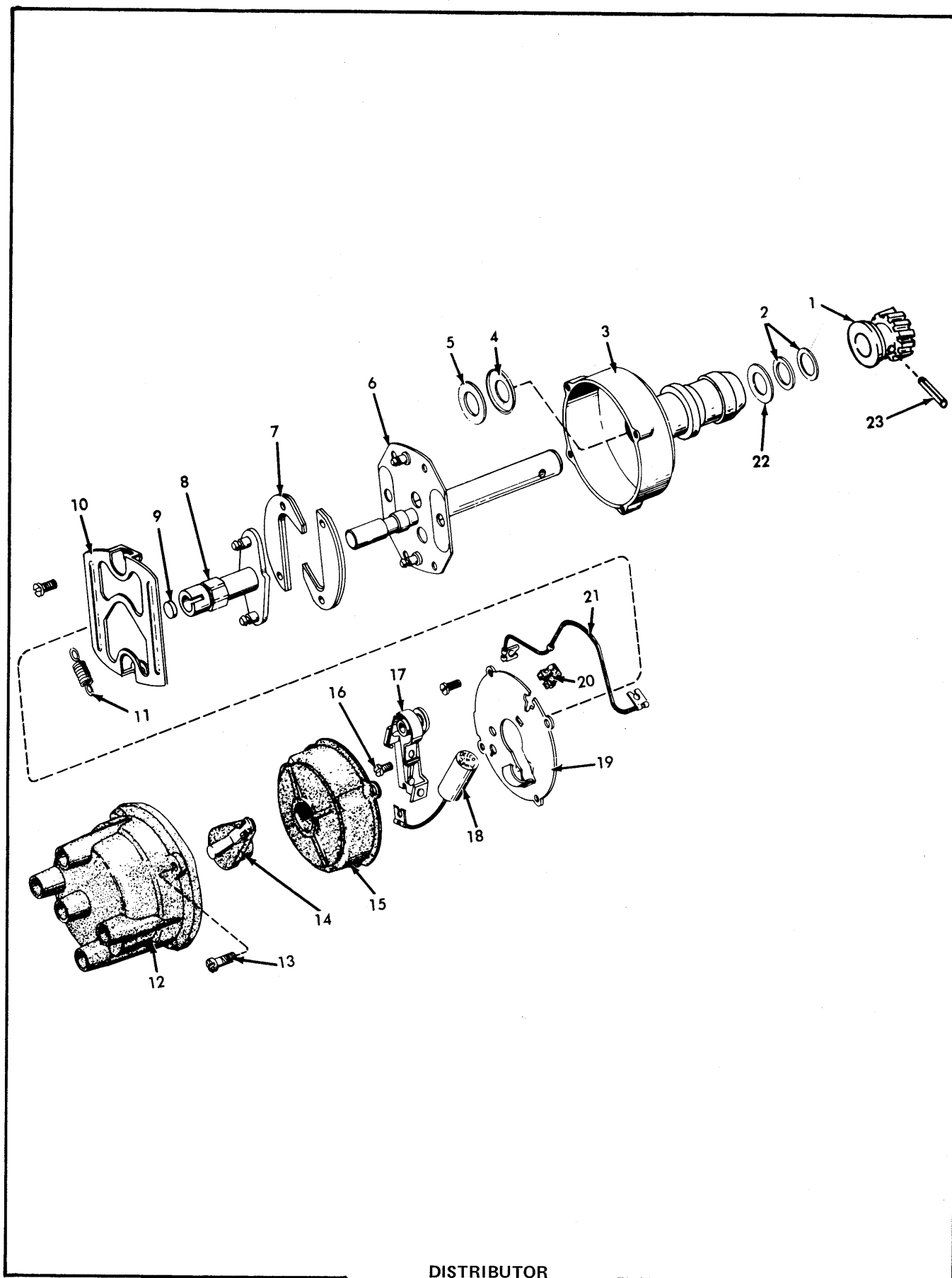
DISTRIBUTOR

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	0255722-1	1	DISTRIBUTOR ASSY (Incl. items 1 thru 33) (Replaces 233933)	
1	226019	1	GEAR, driven, 12T	
2	225797	*	SHIM, driven gear, .005" thk. (* Use as required)	
3	225796	2	WASHER, driven shaft	
4	225773	1	BUSHING, driven shaft	
5	225774	2	CLIP, spring, cap	
6	225775	1	SUPPORT, cap clip (long)	
		1	900553 SCREW	
		1	912739 LOCKWASHER	
7	225793	1	INSULATOR, primary terminal stud (inside)	
8	0917385-7	1	NUT, primary terminal (inside) (Replaces 225792)	
		1	906964 LOCKWASHER	
9	234899	2	SPRING, advance weight	
10	234898	1	CAM ASSY., circuit breaker (Incl. SHAFT, ADVANCE CAM & TWO SPRING POSTS)	
11	225787	2	WEIGHT, advance	
12	225789	1	PLATE, retaining, advance weight	
		2	910251 NUT	
13	0922711-7	2	LOCK, advance weight plate nut (Replaces 225790)	
14	225785	1	POINT SET, circuit breaker (Consists of LEVER ASSY & ADJUSTING SUPPORT ASSY). 243507	
15	225739	1	CONDENSER KIT (Incl. CLAMP & ATTACHING SCREW). 243507	
		1	915966 SCREW, mach.	
		1	906964 LOCKWASHER	
16	225734	1	COVER ASSY., circuit breaker (Incl. items 19 & 20)	
17	225736	1	ROTOR ASSY., distributor	
18	4044344-2	1	CAP ASSY., distributor (Incl. CENTER CONTACT BUTTON AND FIVE TERMINAL SOCKETS) (Replaces 225733)	
19	225781	1	SEAL KIT, cam shaft (Consists of FELT SEAL & RETAINER)	
20	225735	1	GASKET, circuit breaker cover	
21	4500085-0	1	SCREW, locking, breaker point (Replaces 225786)	
22	225778	1	PLATE ASSY., circuit breaker (Incl. POINT PIVOT PIN & ADJUSTING ECCENTRIC)	
		2	900553 SCREW, mach. (long)	
		1	912731 SCREW, mach. (short)	
		3	912739 LOCKWASHER	
23	225784	1	WICK, oil, cam shaft	

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DISTRIBUTOR (Cont'd)

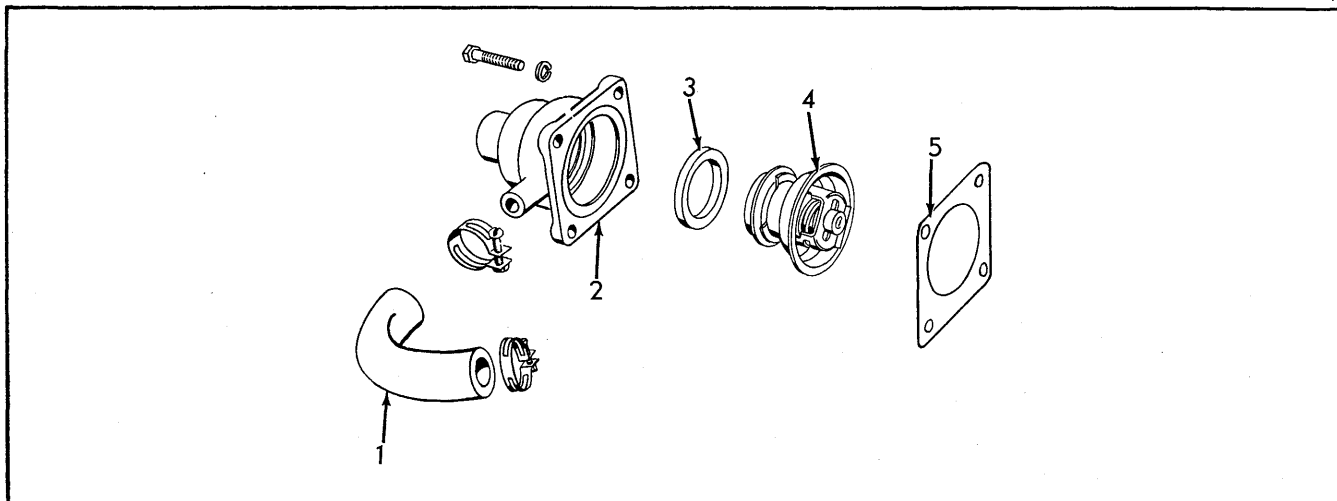
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
24	234897	1	SHAFT ASSY., distributor (Incl. WEIGHT PLATE, 2 SPRING POSTS & 2 WEIGHT PIVOT STUDS)	
25	225776	1	SUPPORT, cap clip (short) 1 900553 SCREW 1 912739 LOCKWASHER	
26	225780	3	RETAINER, breaker plate screw gasket	
27	225779	3	GASKET, breaker plate screw	
28	225777	2	GASKET, cap clip support	
29	225772	1	HOUSING ASSY (Incl. PLUG & NAME PLATE) 1 910230 PLUG, pipe	
30	225794	1	INSULATOR, primary terminal stud (outside)	
31	225791	1	STUD, primary terminal 1 907154 NUT (outside)	
32	225795	1	LOCK, primary terminal outside nut	
33	225798	1	PIN, driven gear	
34	243507	1	KIT, ignition (Incl. items 14 & 15)	



DISTRIBUTOR
32A

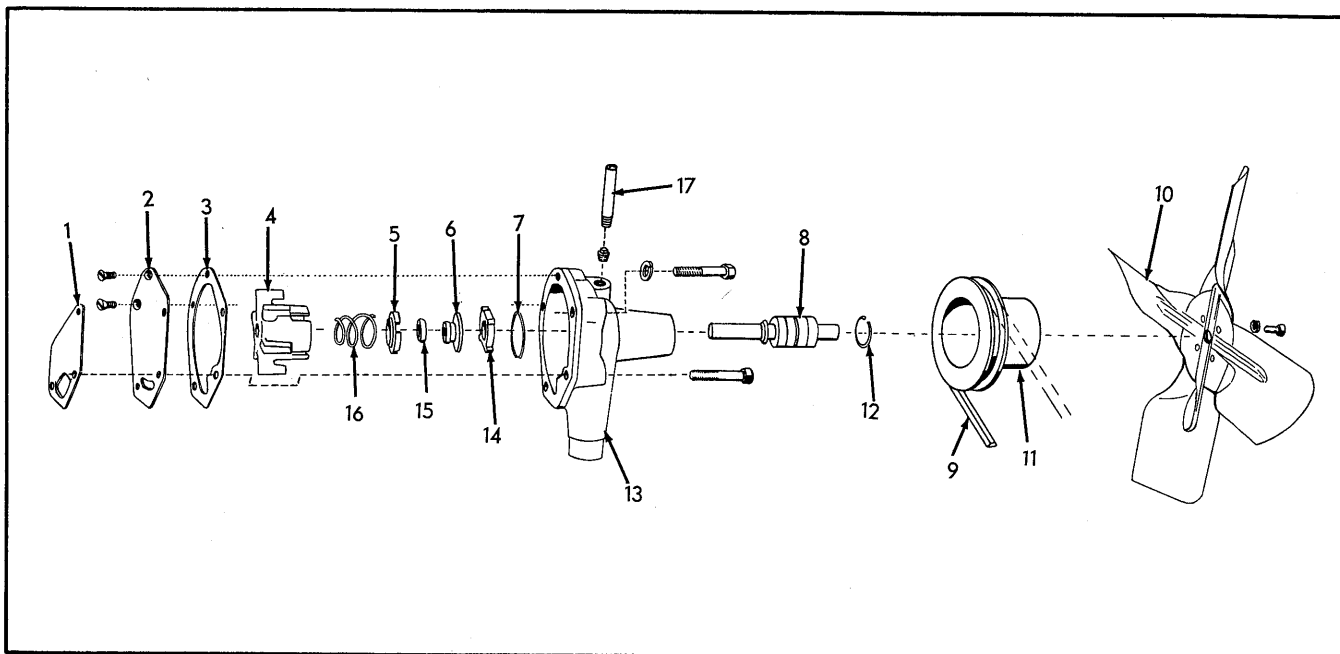
DISTRIBUTOR (GASOLINE)

ITEM	NUMBER	QTY	DESCRIPTION
—	0255722-1	1	DISTRIBUTOR ASSY., (Delco-Remy No. X24939)
1	0250293-8	*	GEAR, drive
2	0225797-0	*	SHIM, washer shaft (.005)
	4050123-1	*	SHIM, washer shaft (.010)
	* Use As Required		
3	0250300-1	1	HOUSING, distributor
4	4056695-2	1	SEAL, housing
5	0225796-2	1	WASHER, spacer
6	0255727-0	1	MAINSHAFT & WEIGHT PLATE
7	0232828-4	4	WEIGHT, cam advance
8	0255728-8	1	CAM, advance & breaker
9	4056687-9	1	WICK, cam
10	4056708-3	1	PLATE, weight hold down
	2	0914684-6	Screw W/LW
11	0232829-2	2	SPRING, weight
12	4058876-6	1	CAP, distributor (Incls. Item 13 & 20)
13	4255579-7	1	SCREW, distributor cap
	4255580-5	1	SCREW, distributor cap
14	4056700-0	1	ROTOR, distributor
15	4056699-4	1	COVER, housing
16	4050086-0	1	SCREW, contact adjusting
17	4056705-9	1	CONTACT SET
18	0225739-2	1	CONDENSER
	1	0250976-8	Bracket
	1	0903910-8	Screw
19	4056703-4	1	PLATE, breaker
	2	0917393-1	Screw, No. 8 UNC x 3/8
20	4056711-7	1	GROMMET, housing, lead wire
21	4056710-9	1	LEAD, primary
22	0250977-6	1	WASHER, space
23	0250294-6	1	PIN, gear attaching



WATER MANIFOLD & THERMOSTAT
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	228126	1	HOSE, by-pass 2 921911 CLAMP, hose	
2	228124	1	COVER, thermostat 4 903771 CAPSCREW 4 904205 LOCKWASHER	
3	228542	1	GASKET, thermostat	0255326-1, 0255325-3
4	228543	1	THERMOSTAT ASSY., water, 160° (Incl. Item 3)	
5	228125	1	GASKET, thermostat cover	0255326-1, 0255325-3



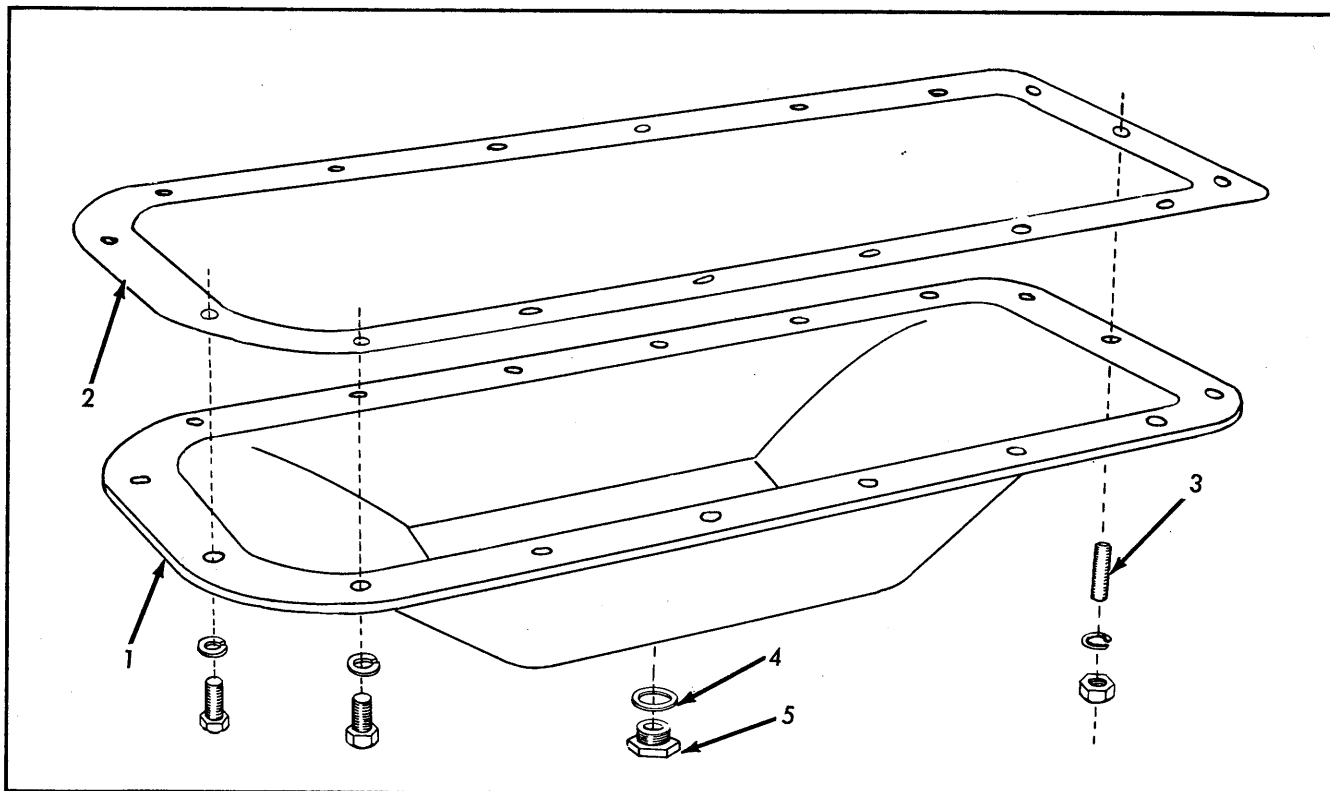
WATER PUMP & FAN Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	233394	1	PUMP ASSY., water (Incl. all Items in this group except 1, 10, 11 & 17)	
1	234382	1	GASKET, pump to cylinder block	0255326-1
2	207820	1	COVER, body 2 910271 SCREW, mach.	
3	207832	1	GASKET, cover to body	235202
4	207821	1	IMPELLER	
5	207826	1	GUIDE, shaft seal spring	
6	207823	1	SEAL, shaft (rubber)	
7	207828	1	RING, snap, impeller	
8	207822	1	BEARING ASSY., (Incl. SHAFT)	
9	233432	1	BELT, fan	
10	248463	1	BLADE, ASSY., fan, (6 blades, pusher) (Supersedes 236896)	
			4 922127 CAPSCREW	
			4 904205 LOCKWASHER	
			1 248464 SPACER, not shown	
	232154	1	BLADE ASSY., fan (4 blades - Standard)	
			4 903773 CAPSCREW	
			4 904205 LOCKWASHER	
11	233395	1	PULLEY, pump	
12	234749	1	RING, snap, body (f/Shaft Bearing)	
13	226498	1	BODY, water pump (Incl. PIPE PLUG)	
			1 901653 PLUG, pipe	
			1 903634 CAPSCREW,	
			1 904281 CAPSCREW,	
			2 904206 LOCKWASHER	
			2 911115 WASHER, plain	

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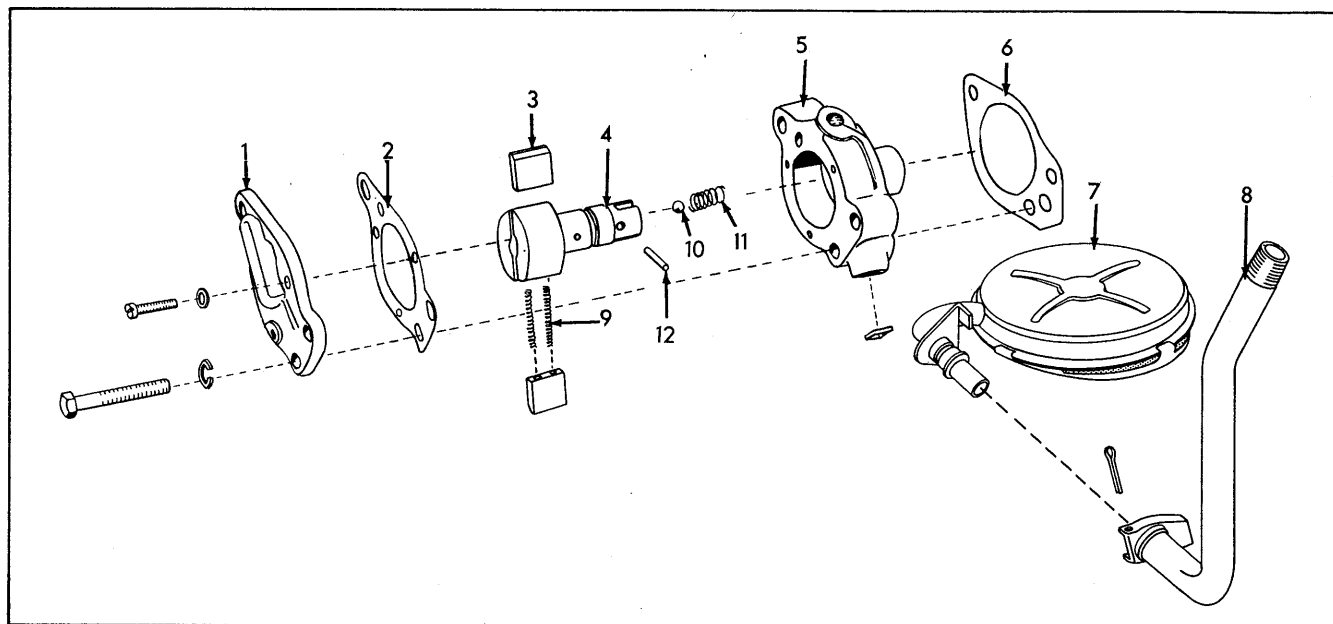
WATER PUMP & FAN (Cont'd.)
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
14	207827	1	WASHER, shaft seal (carbon)	
15	207824	1	RING, clamp, shaft seal	
16	207825	1	SPRING, shaft seal	
17	228127	1	PIPE, pump inlet	
18	228394	1	STUD (Not Illustrated)	
		1	910324 NUT	
		1	904206 LOCKWASHER	



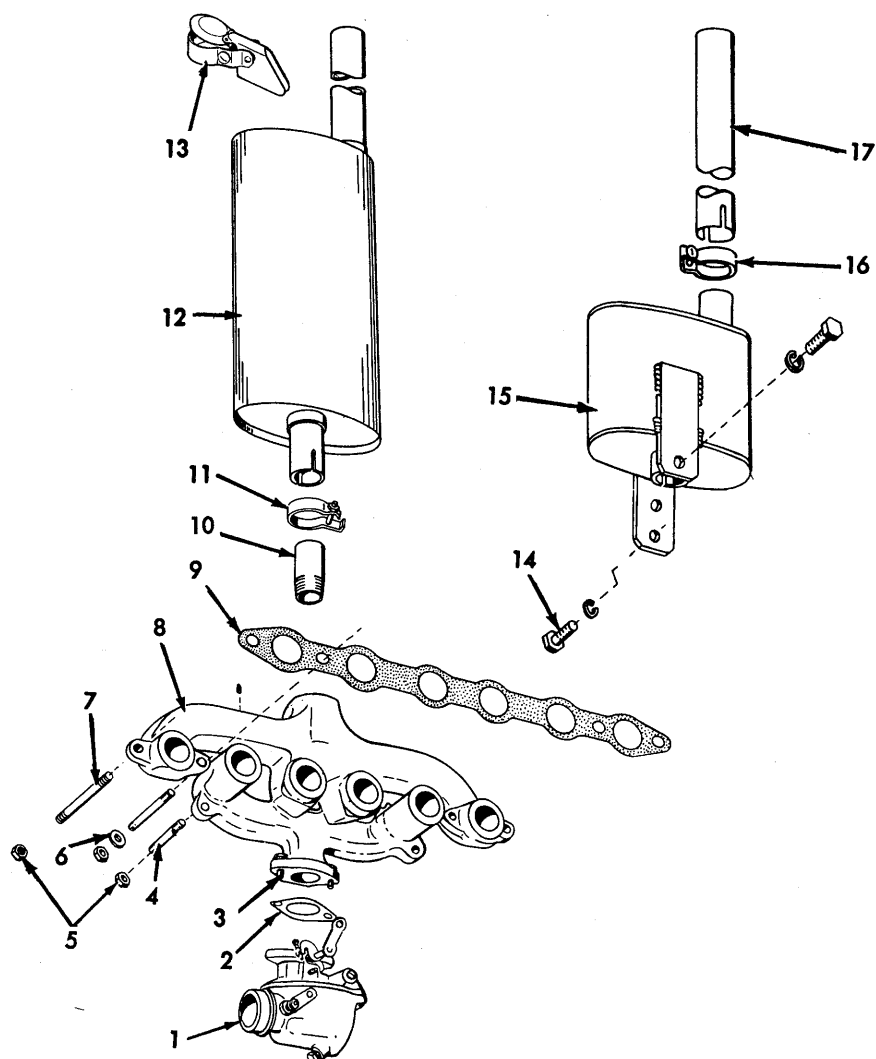
OIL SUMP
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	233289	1	SUMP, oil 2 914670 CAPSCREW (rear) 14 915813 CAPSCREW (side) 14 913651 LOCKWASHER	
2	232325	1	GASKET, oil sump	0255326-1
3	207402	1	STUD, oil sump 6 904205 LOCKWASHER 1 900366 NUT	
4	226012	1	GASKET, drain plug	0255326-1
5	226408	1	PLUG, drain	



OIL PUMP
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	237078	1	PUMP ASSY., oil (Incls. items 1 thru 5 & 9)(Eff. w/Tr. S/N 6959)	
	233387	1	PUMP ASSY., oil (Incl. items 1 thru 5 & 9)(Used prior to Tr. S/N 6959)	
	228392	1	COVER, oil pump (Used prior to Tr. S/N 6959)	
	3	907676	SCREW, mach (short)	
	3	904203	LOCKWASHER	
1	3	920660	CAPSCREW	
	3	904205	LOCKWASHER	
1	240449	1	COVER, pump (Eff. w/Tr. S/N 6959)	
	3	920233	SCREW	
	3	922219	CAPSCREW	
2	228393	1	GASKET, oil pump cover.	0255326-1
3	207842	2	BLADE, rotor	
4	223531	1	ROTOR, oil pump	
5	233388	1	BODY ASSY., oil pump (Incl. EXPANSION PLUG)	
	1	912420	PLUG, expansion	
6	233210	1	GASKET, pump to block	0255326-1
7	234142	1	SCREEN, floating intake	
8	230661	1	PIPE, intake	
9	207838	2	SPRING, rotor blade	
10	905359	1	BALL	
11	207839	1	SPRING, pressure regulator	
12	233390	1	PIN, spring, retaining	



INTAKE & EXHAUST MANIFOLD
Gasoline

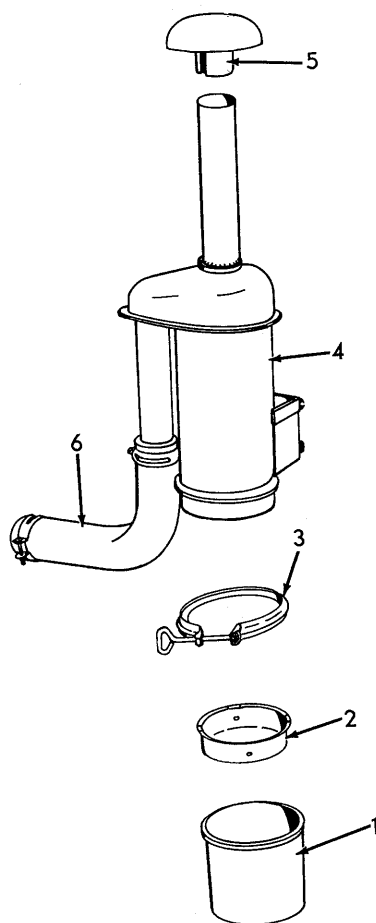
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	-----	1	CARBURETOR (For parts see Carburetor Group)	
2	233209	1	GASKET, carburetor flange	0255326-1, 0255325-3
3	229715	2	CAPSCREW, carburetor attaching 2 904205 LOCKWASHER	
4	238043	4	STUD, manifold (short)	
5	229569	8	NUT, manifold stud	
6	225771	2	WASHER, manifold stud	
7	227639	4	STUD, manifold (long)	

Continued

INTAKE & EXHAUST MANIFOLD (Cont'd)
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
8	234141	1	MANIFOLD ASSY., intake & exhaust (Incl. PIPE PLUG) (Used prior to Tr. S/N 7637)	
	231456	1	MANIFOLD ASSY., intake & exhaust (Incl. PIPE PLUG) (Eff. w/ Tr. S/N 7637 & up)	
		1	901651 PLUG, pipe	
9	234140	1	GASKET, manifold	0255324-6, 0255323-8
10	237859	1	PIPE, exhaust, manifold to muffler	
11	0240244-1	1	CLAMP ASSY., muffler (Replaces 240899)	
12	241766	1	MUFFLER, exhaust	
13	244341	1	CAP, weather	
14	229922	3	CAPSCREW, muffler	
15	237407	1	MUFFLER, exhaust (Supersedes 234127)(Used prior to Tr. S/N 7637)	
16	237410	1	CLAMP, muffler	
17	237408	1	TUBE, muffler extension	

NOTE: Tractors prior to S/N 6020 used muffler of one piece design when replacing muffler of this type order 1 each of Item 15, 16 & 17.



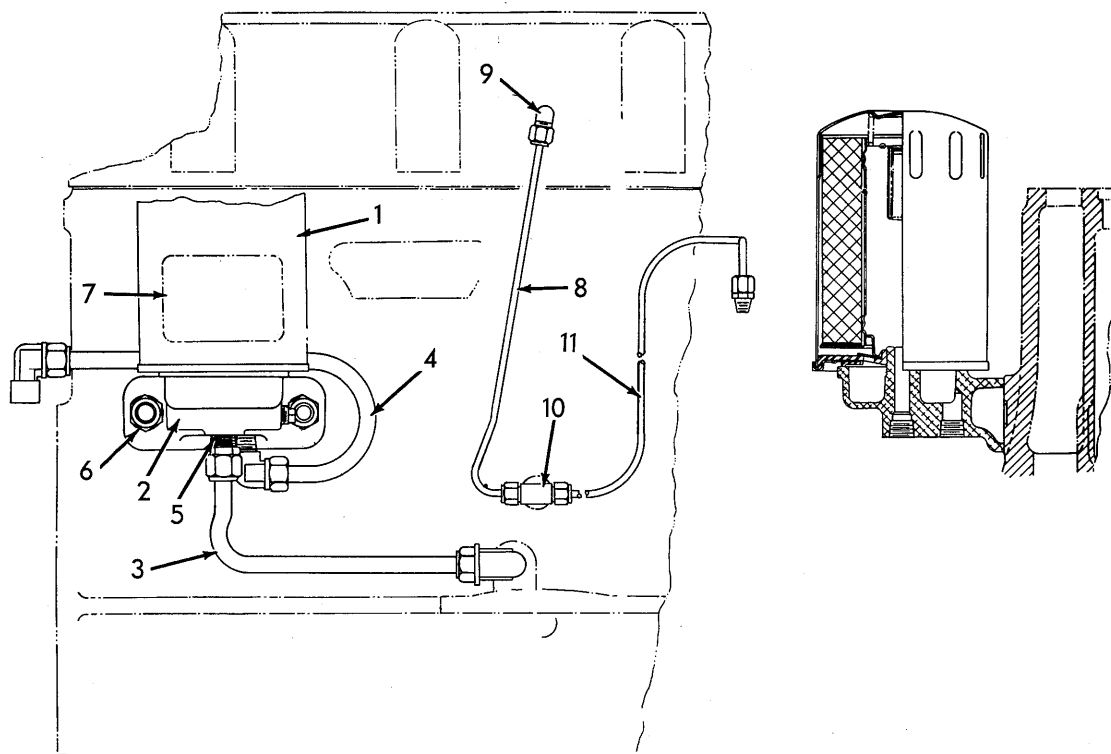
AIR CLEANER (Gasoline) Oil Bath Type Used Prior to Tr. S/N 8694				ASSEMBLY OR PACKAGE NO.
ITEM	PART NUMBER	QTY.	DESCRIPTION	
1	232881	1	CUP, oil, outer	
2	228479	1	CUP, oil, inner	
3	228480	1	CLAMP ASSY., oil cup (Incl. SCREW)	
4	235055	1	CLEANER ASSY., air (Incl. Items 1, 2 & 3) (f/low clearance Muffler Group)	
	232882	1	CLEANER ASSY., air (Incl. Items 1, 2 & 3)	
		4	912742 CAPSCREW	
		4	904206 LOCKWASHER	
5	0242072-7	1	(Replaces 225860)	
	0244432-2	1	CAP, rain (optional)	
6	232893	1	HOSE, carburetor	
		2	921913 CLAMP	
7	-----	1	TRANSFER, air cleaner instruction	234052

AIR CLEANER - DRY TYPE

Eff. w/Tr. S/N 8694 & Up

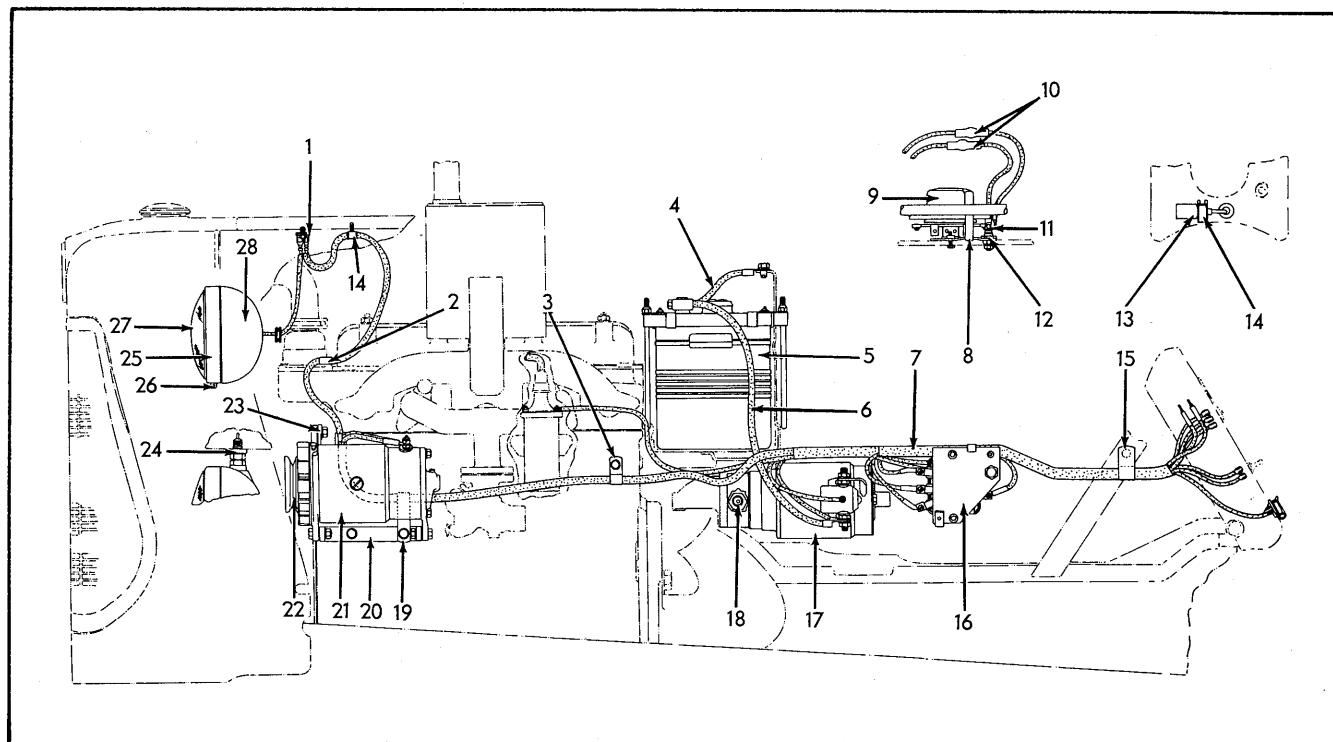
Not Illustrated

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	246364	1	CLEANER ASSY., air (Incl. MOUNTING BANDS & items 1 thru 7)	
1	247060	1	ELEMENT ASSY., air cleaner (Incl. item 2)	
2	247061	1	GASKET, element	
3	247062	1	NUT ASSY.	
4	228480	1	CLAMP ASSY., cup	
5	247063	1	CUP ASSY., air cleaner	
6	247064	1	BAFFLE	
7	4055119	1	CAP, air cleaner	
8	246368	1	BRACKET, air cleaner	
		2	903630 CAPSCREW	
		2	904206 LOCKWASHER	
		4	903626 CAPSCREW	
		4	904205 LOCKWASHER	
		4	910323 NUT	
9	246369	1	HOSE, air cleaner to carburetor	
		2	921913 CLAMP, hose	
10	246370	1	TUBE ASSY., air cleaner inlet	
11	0242072-7	1	CAP, air cleaner (Replaces 225860)	
--	246367	1	BAND, mounting (Not illustrated)	



OIL FILTER & LINES Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	237000	1	FILTER ASSY., oil (cartridge) (Supersedes 232578 and 234900)	
2	232426	1	BASE, filter	
		2	919228 CAPSCREW	
		2	904207 LOCKWASHER	
		1	910231 PLUG, pipe	
		1	915905 BALL	
3	233393	1	TUBE, filter base to block	
		1	917948 CONNECTOR (Incl. NUT & SLEEVE)	
		1	917817 ELBOW (Incl. NUT & SLEEVE)	
4	233392	1	TUBE, oil pump to filter base	
		1	920745 ELBOW (female)	
		1	917817 ELBOW (male)	
5	233701	1	NIPPLE	
6	234683	1	WASHER, plain, copper	
7	-----	1	TRANSFER	234052
8	231044	1	TUBE, oil, head to block (Incl. NUTS & SLEEVES)	
9	232013	1	ELBOW, male	
10	231585	1	TEE, special	
11	228139	1	TUBE, oil block to governor	
		1	910125 CONNECTOR (male)	



ELECTRICAL SYSTEM Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	228360	1	TERMINAL ASSY., connector male 4-way	
	2 914629		SCREW, s-tap	
2	228373	1	CLIP, wiring harness	
3	232751	1	CLAMP, wiring harness	
	1 903627		CAPSCREW	
	1 904206		LOCKWASHER	
4	232416	1	CABLE, battery to ground	
	1 903628		CAPSCREW	
	1 904206		LOCKWASHER	
5	243470	1	BATTERY, 12 volt	
6	229489	1	CABLE, battery to starter solenoid	
7	234320	1	HARNESS, wiring front	
8	232659	1	CLIP, wiring harness	
9	229484	1	REGULATOR, voltage (Delco No. 118993)	
	2 920298		SCREW	
	2 920299		NUT, speed	
	3 910243		WASHER	
	1 904203		LOCKWASHER	
	1 903625		CAPSCREW	
	1 904204		LOCKWASHER	
	1 910880		NUT	
10	228402	2	CONNECTOR, line	

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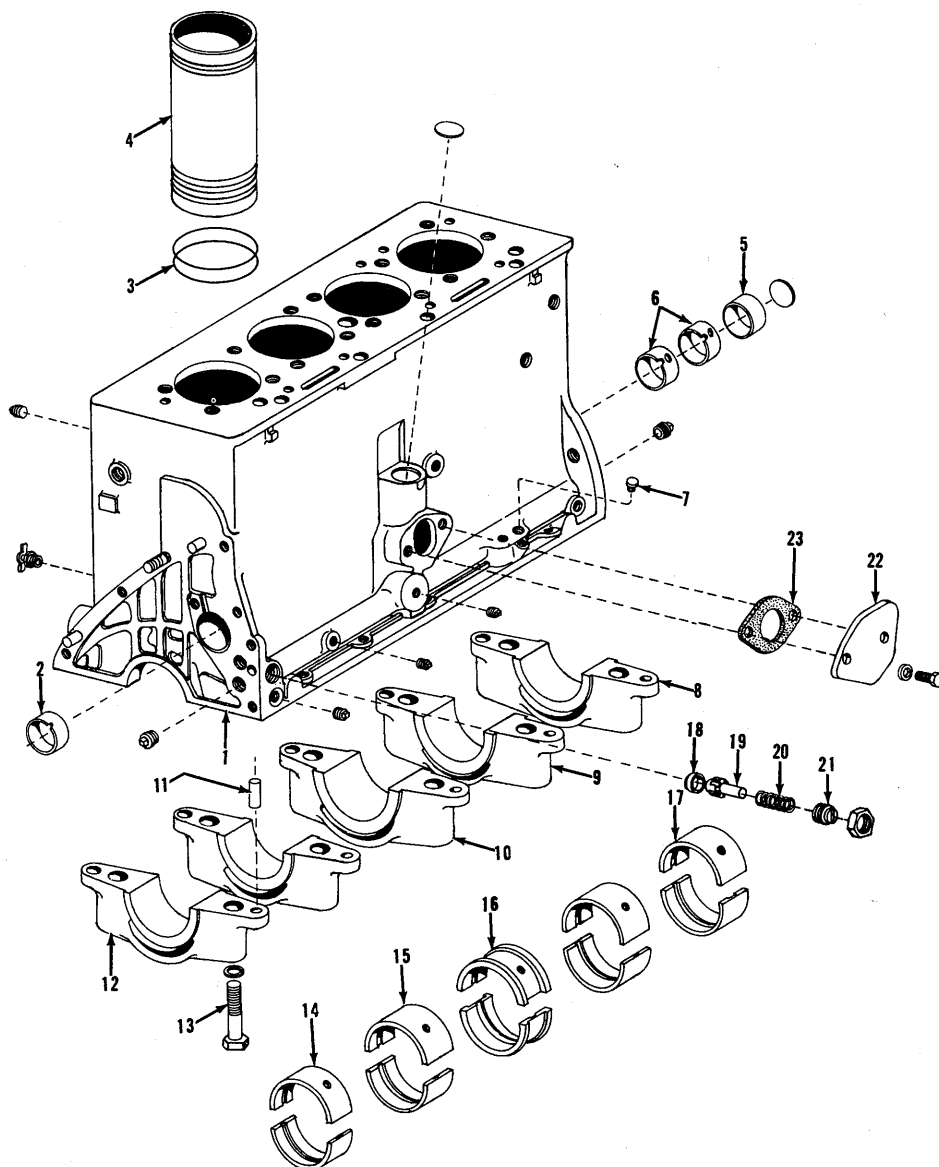
ELECTRICAL SYSTEM (Cont'd.)
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
11	208960	1	FUSE, 20 amp.	
12	230246	1	HOLDER ASSY., fuse (Incl. CAP) 1 910210 LOCKWASHER	
	231486	1	CAP, fuse holder	
13	234319	1	CONNECTOR "Y"	
14	229576	2	CLIP, rear lamp and harness 1 913233 GROMMET, rubber	
15	232595	1	CLAMP, wiring harness to fuel tank support	
16	230965	1	PLATE, voltage regulator 1 918118 NUT, speed	
17	-----	1	MOTOR ASSY., electric starting (See Starting Motor Group for Components)	
18	207872	1	SETSCREW, starting motor 1 910511 NUT, jam	
19	222832	1	CLAMP, wiring harness to generator bracket	
20	233400	1	BRACKET, generator mounting 2 916269 CAPSCREW 2 904206 LOCKWASHER	
21	-----	1	GENERATOR ASSY., (See Generator Group for Components) 2 918875 CAPSCREW 2 917356 LOCKWASHER 2 917372 NUT, hex.	
22	233398	1	PULLEY, generator	
23	233676	1	BRACE, generator adjusting 1 917397 CAPSCREW 1 917356 LOCKWASHER 2 911115 WASHER, plain	
24	229951	4	SPACER, headlamp 2 919262 NUT, jam	
25	230250	2	MOULDING ASSY.	
26	209826	2	SCREW, moulding	
27	230252	2	UNIT ASSY., sealed (lamp)	
28	229915	1	LAMP ASSY., head R.H. 1 913233 GROMMET	
	229916	1	LAMP ASSY., head, L.H. 1 913233 Grommet	

Continued

ELECTRICAL SYSTEM (Cont'd.)
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
--	234529	2	HARNESS, wire jumper	For Rear Mounted Auxiliary Lamps
	235530	1	SLEEVE, harness 21-3/4" (Front)	
	234531	2	SLEEVE, harness 12-1/2" (Rear)	
	234532	2	SLEEVE, lamp 17-1/4"	
	228402	2	CONNECTOR, line	
	232571	2	CLAMP, harness to platform	
	209315	4	CLIP, wire	



CYLINDER BLOCK
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	4512319	1	BLOCK ASSY., cylinder (Incl. items 2 & 5 thru 13, 18, COCK & PLUGS indented below)	
		1	917299 PLUG, expansion	
		1	910014 PLUG, expansion	
		2	904260 PLUG, pipe	
		1	919840 PLUG, pipe	
		1	912415 COCK, drain	
		3	919134 PLUG, pipe	
2	4514023	1	BEARING, camshaft, front	
3	4514615	4	RING, packing	4515044-8, 4515045-5
	4516606-3	4	RING, packing	4515044-8, 4515045-5

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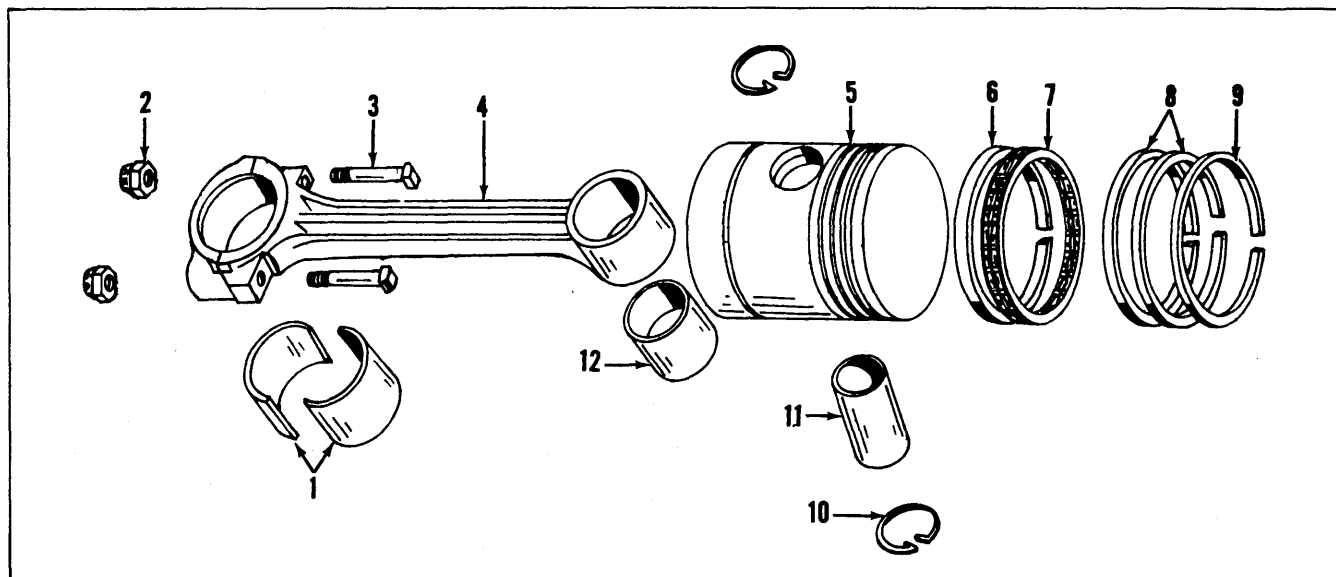
CYLINDER BLOCK (Cont'd)
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
4	4510817	4	SLEEVE, cylinder.	4515044-8
	4508465	4	SLEEVE, cylinder (.020" oversize flange) (Requires remachining of cylinder block	4515045-5
5	4514025	1	BEARING, camshaft, rear	
6	4514024	2	BEARING, camshaft, intermediate	
7	4511159	1	PLUG, hole, oil level gauge (Opposite side of oil level gauge)	
8	4511248	1	CAP, main bearing, rear (See Note)	
9	4511246	2	CAP, main bearing, intermediate (See Note)	
10	4511250	1	CAP, main bearing, center (See Note)	
11	4514110	10	DOWEL, main bearing cap	
	4514109	10	DOWEL, main bearing cap (.030" oversize) (Use with semi-finished caps)	
12	4511252	1	CAP, main bearing, front (See Note)	
13	4500327	10	CAPSCREW, main bearing cap 1 910153 LOCKWASHER	
14	4514848-3	2	BEARING, main, front (standard) (Replaces 4502737)	
	4514852-5	2	BEARING, main, front (.002") (Replaces 4507070)	
	4514849-1	2	BEARING, main, front (.010") (Replaces 4506797)	
	4514850-9	2	BEARING, main, front (.020") (Replaces 4506798)	
	4514851-7	2	BEARING, main, front (.040") (Replaces 4506799)	
15	4514853-3	4	BEARING, main, intermediate (standard) (Replaces 4502738)	
	4514857-4	4	BEARING, main, intermediate (.002") (Replaces 4507072)	
	4514854-1	4	BEARING, main, intermediate (.010") (Replaces 4506800)	
	4514855-8	4	BEARING, main, intermediate (.020") (Replaces 4506801)	
	4514856-6	4	BEARING, main, intermediate (.040") (Replaces 4506802)	
16	4514843-4	2	BEARING, main center (standard) (Replaces 4502689)	
	4514847-5	2	BEARING, main, center (.002") (Replaces 4507074)	
	4514844-2	2	BEARING, main, center (.010") (Replaces 4506803)	
	4514845-9	2	BEARING, main, center (.020") (Replaces 4506804)	
	4514846-7	2	BEARING, main, center (.040") (Replaces 4506805)	

Continued

CYLINDER BLOCK (Cont'd)
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
17	4514858-2	2	BEARING, main, rear (standard) (Replaces 4502740)	
	4514862-4	2	BEARING, main, rear (.002") (Replaces 4507076)	
	4514859-0	2	BEARING, main, rear (.010") (Replaces 4506806)	
	4514860-8	2	BEARING, main, rear (.020") (Replaces 4506807)	
	4514861-6	2	BEARING, main, rear (.040") (Replaces 4506808)	
18	4507673	1	INSERT, oil pressure regulating valve	
19	4507374	1	PISTON, oil pressure regulator	
20	4500231	1	SPRING, oil pressure regulator	
21	4510836	1	SCREW, oil pressure regulator 1 910847 NUT	
22	4500332	1	COVER, fuel pump pad 2 916277 CAPSCREW 2 917330 WASHER, plain	
23	4503956	1	GASKET, fuel pump pad cover	4511664
NOTE: Replacement bearing caps are semi-finished and must be line-bored after installing.				
--	4515334	1	ENGINE ASSY., replacement	



PISTON & CONNECTING ROD
Diesel

* Used Prior to S/N Eng. D-07290
** Eff. w/S/N Eng. D-07290

ITEM	PART NUMBER	QTY. * **		DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	4514863-2	8	8	BEARING, connecting rod (standard) (Replaces 4502741)	
	4514867-3	8	8	BEARING, connecting rod (.002'') (Replaces 4507078)	
	4514864-0	8	8	BEARING, connecting rod (.010'') (Replaces 4506809)	
	4514865-7	8	8	BEARING, connecting rod (.020'') (Replaces 4506810)	
	4506811	8	8	BEARING, connecting rod (.040'')	
2	4514471	8	8	NUT, connecting rod bolt	
3	4515070	8	8	BOLT, connecting rod	
4	4515119	4	4	ROD ASSY., connecting (Ind. items 2, 3 & 12)	
5	4516729-3	4	4	PISTON, (Replaces 4513346)	4515044-8, 4515045-5
6	-----	4	4	RING, piston (5th)	4515040-6, 4516738-4
7	-----	4	4	RING, piston (3 pieces) (4th)	4515040-6, 4516738-4
8	-----	8	8	RING, piston (2nd & 3rd)	4515040-6, 4516738-4
9	-----	4	4	RING, piston (top)	4515040-6, 4516738-4

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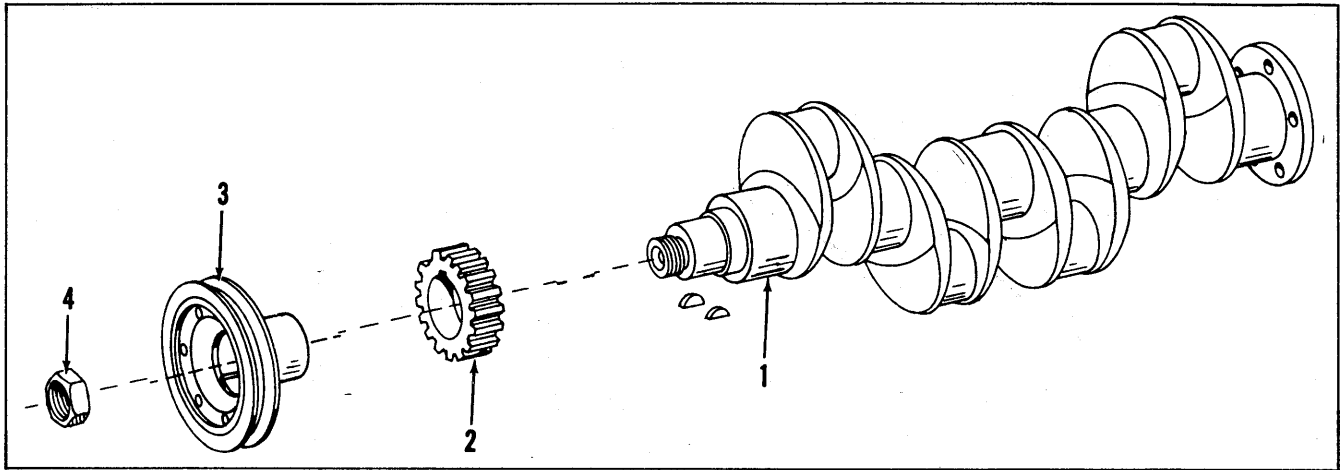
PISTON & CONNECTING ROD (Cont'd)

Diesel

* Used Prior to S/N Eng. D-07290

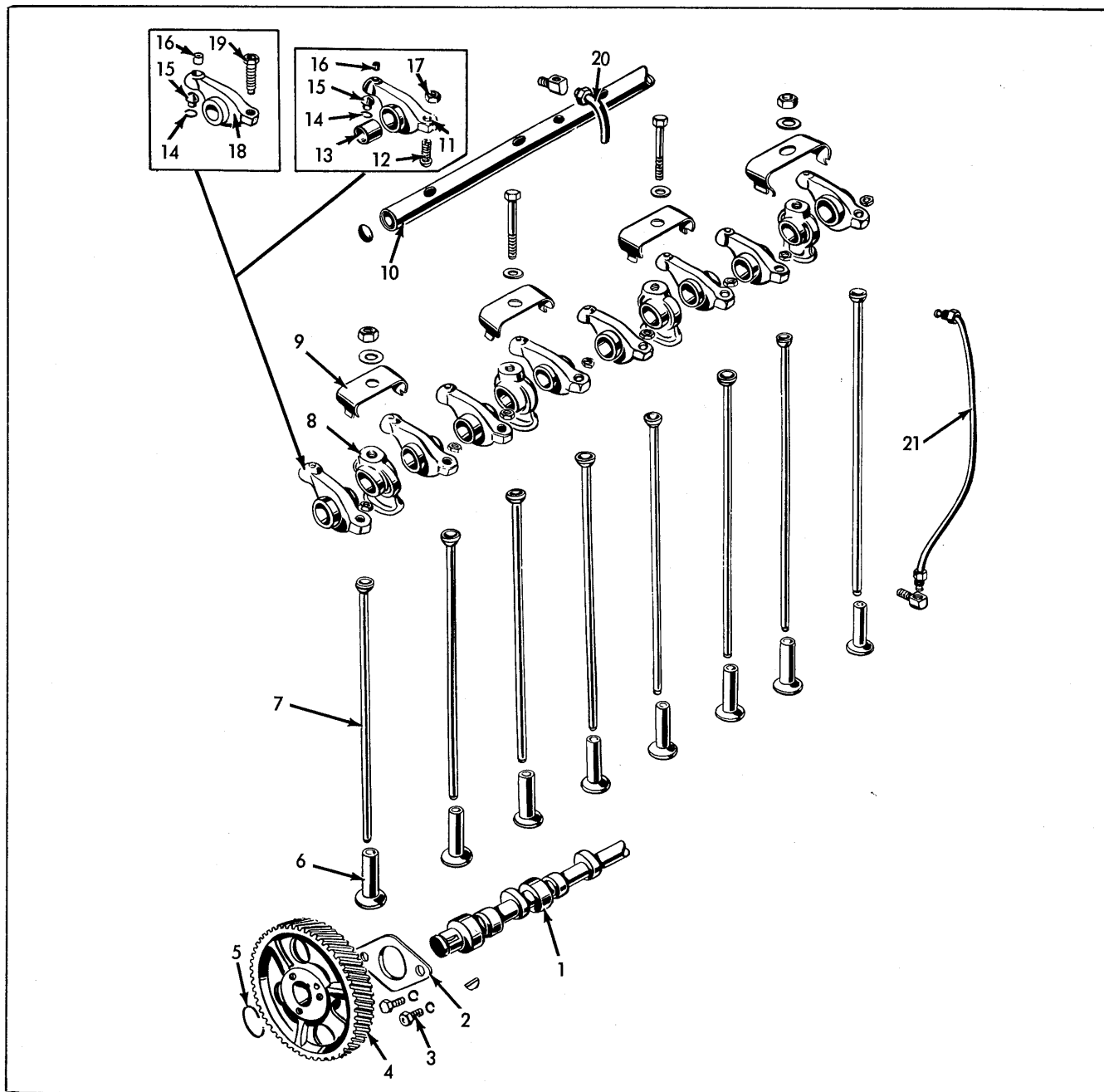
** Eff. w/S/N Eng. D-07290

ITEM	PART NUMBER	QTY. * **	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
10	4514586	8 8	RETAINER, piston pin	4515044-8, 4515045-5
11	4507710	4 4	PIN, piston	4515044-8, 4514045-5
12	4507127	4 4	BUSHING, connecting rod	



CRANKSHAFT
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	4512316	1	CRANKSHAFT	
2	4511258	1	GEAR, crankshaft 1 905845 KEY	
3	4514128	1	PULLEY, fan drive 1 905845 KEY	
4	4512820	1	NUT, lock	



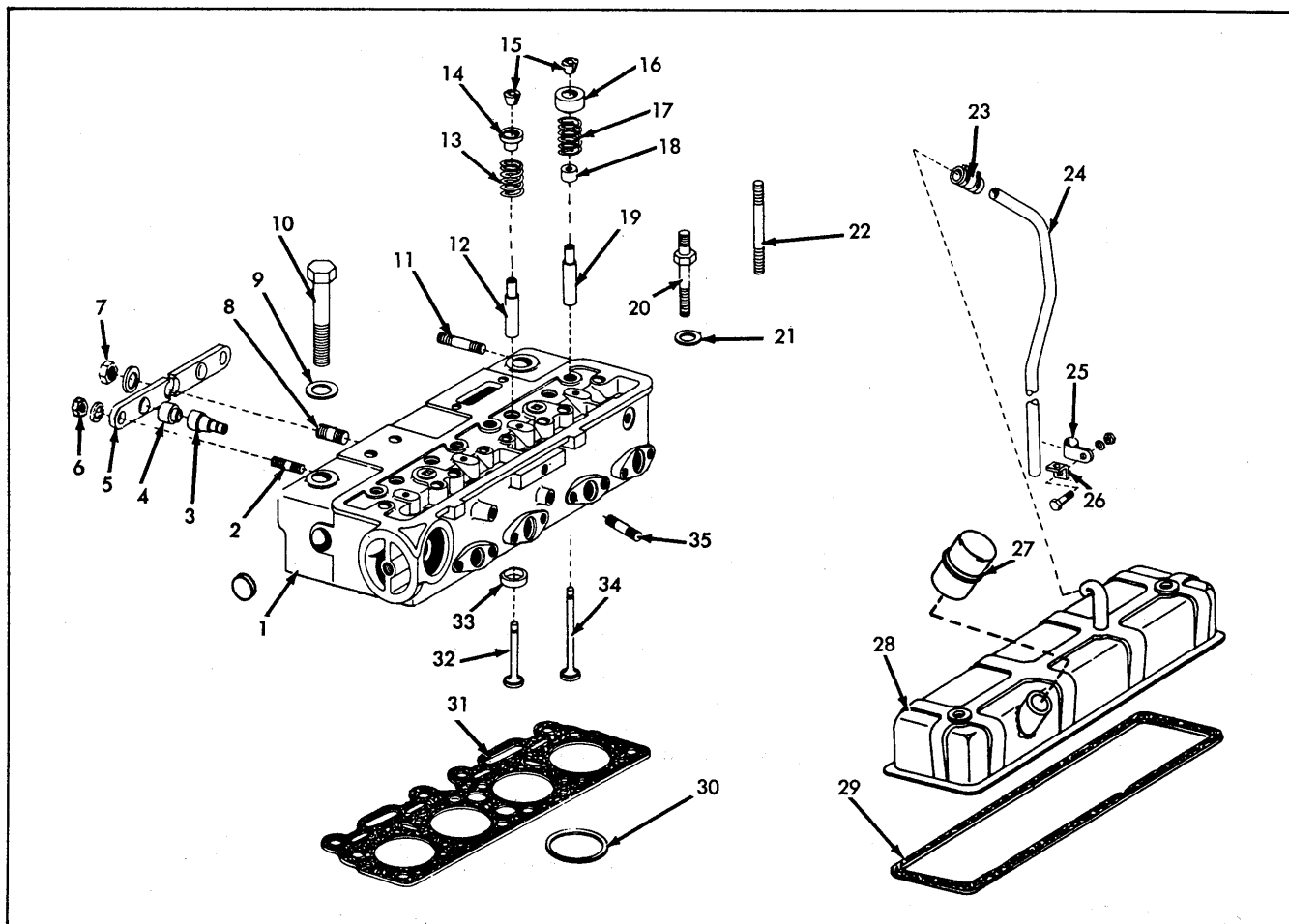
VALVE OPERATING MECHANISM
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	4515195	1	CAMSHAFT	
2	4502467	1	PLATE, thrust	
3	4502468	2	CAPSCREW, thrust plate	
		1	907863 LOCKWASHER	

Continued

VALVE OPERATING MECHANISM (Cont'd)
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
4	4516088-4	1	GEAR, camshaft (Replaces 4515223)	
		1	905845 KEY	
5	4500313	1	RETAINER, camshaft gear	
6	4512982	8	LIFTER, valve	
7	4504052	8	ROD, push	
8	4507733	4	BRACKET, rocker arm shaft	
		2	910123 NUT	
		2	906695 CAPSCREW	
		4	900817 WASHER	
9	4500176	4	CLIP, rocker arm bracket	
10	4505262	1	SHAFT ASSY., rocker arm (Incl. PLUGS)	
		2	914590 PLUG, expansion	
11	4511700	8	ARM ASSY., rocker (Incl. items 12 thru 17) (Used prior to Eng. S/N 115808)	
	4513496	8	ARM ASSY., rocker (Incl. items 13 thru 16 & 19) (Use Eng. S/N 115808 thru 119738)	
12	4511694	8	SCREW, push rod adjusting (Used prior to Eng. S/N 115580)	
13	4500171	8	BUSHING, (Used prior to Eng. S/N 119738)	
14	-----	8	RETAINER, ball (Not serviced)	
15	-----	8	BALL (Not serviced)	
16	-----	8	WICK, oil (Not serviced)	
17	4001304	8	NUT, adjusting screw (Used prior to Eng. S/N 115580)	
18	4516361-3	8	ARM ASSY., rocker (Incl. items 14 thru 16 & 19) (Replaces 4513485)	
19	4513206	8	SCREW, push rod adjusting (Eff. w/Eng. S/N 115580)	
20	4502408	1	LINE ASSY., overflow (Incl. NUT)	
		1	913536 NUT	
		1	913040 ELBOW	
21	4512324	1	LINE ASSY., oil (Crankcase to Head) (Incl. NUTS)	
		2	913536 NUT	
		2	914094 ELBOW	



CYLINDER HEAD & VALVES

Diesel

* Used Prior to Eng. S/N 119505

** Used w/ Eng. S/N 119505 Thru D-05032

*** Eff. w/ Eng. S/N D-05033 & Up

ITEM	PART NUMBER	QTY.			DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**	***		
1	4512356	1	-	-	HEAD ASSY., cylinder (Incl. items 12, 19, 33 & PLUGS)	
	4513556	-	1	-	HEAD ASSY., cylinder (Incl. items 12, 19, 33 & PLUGS)	
	4516735-0	-	-	1	HEAD ASSY., cylinder (Incl. items 12, 19, 33 & PLUGS) (Replaces 4514322)	
	2	910006	PLUG, expansion			
	2	918851	PLUG, pipe			
2	4506946	4	4	4	STUD, air cell (short)	
	3	4507386	4	4	CELL ASSY., air (Incl. ORIFICE & PIN)	
	4	4500967	4	4	PLUG, air cell	
	5	4504454	4	4	FLANGE, air cell retainer	
3						
4						
5						

Continued

CYLINDER HEAD & VALVES (Cont'd)

Diesel

* Used Prior to Eng. S/N 119505

** Used w/Eng. S/N 119505 Thru D-05032

*** Eff. w/Eng. S/N D-05033 & Up

ITEM	PART NUMBER	QTY. * ** ***			DESCRIPTION	ASSEMBLY OR PACKAGE NO.
6	4253346	4	4	4	NUT, air cell stud (short) 1 904206 LOCKWASHER	
7	4253348	2	2	2	NUT, air cell stud (long) 1 910244 WASHER	
8	4507343	2	2	2	STUD, air cell (long)	
9	4372864	14	14	14	WASHER, cylinder head capscrew	
10	4514380-7	11	11	11	CAPSCREW, cylinder head (5-3/8") (Replaces 4511644)	
	4514382-3	1	1	1	CAPSCREW, cylinder head (7-13/32") (Replaces 4511646)	
11	4501050	4	4	4	STUD, manifold	
12	4504475	4	4	4	GUIDE, exhaust valve	
13	4508944	4	4	-	SPRING, exhaust valve (Used prior to Eng. S/N D-03314)	
	4513811	-	4	4	SPRING ASSY., exhaust valve (Incl. item 36) (Eff. w/Eng. S/N D-03314)	
14	4353139	4	4	4	RETAINER, valve spring, exhaust	
15	4356080	16	16	16	LOCK, valve spring retainer	
16	4513139	4	4	4	ROTO-CAP ASSY., valve spring, intake	
17	4512839	4	4	-	SPRING, intake valve (Used prior to Eng. S/N D-02582)	
	4513813	-	4	4	SPRING ASSY., intake valve (Incl. item 36) (Eff. w/Eng. S/N D-02582)	
18	4510826	4	-	-	DEFLECTOR, oil, intake valve stem (Rubber)	
	4513420	-	1	1	SEAL KIT, oil, intake valve (Incl. 4 SEALS & VALVE STEM CAP)	
19	4513354-3	4	-	-	GUIDE, intake valve (Replaces 4504476)	
	4513354	-	4	4	GUIDE, intake valve	
20	4514400-3	1	1	1	CAPSCREW, lifting (6-9/16" overall length) (Replaces 4512249)	
	4514399-7	1	1	1	CAPSCREW, lifting (8-19/32" overall length) (Replaces 4511647)	
21	4105451	2	2	2	GASKET, cylinder head cover nut . . . 4514581-0 , 4514021	
22	4508061	2	2	2	STUD, rockerarm bracket	
					2 910123 NUT 2 900817 WASHER	

Continued

CYLINDER HEAD & VALVES (Cont'd)

Diesel

* Used Prior to Eng. S/N 119505

** Used w/Eng. S/N 119505 Thru D-05032

*** Eff. w/Eng. S/N D-05033 & Up

ITEM	PART NUMBER	QTY.			DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**	***		
23	236745	-	1	1	HOSE, breather tube 2 921911 CLAMP	
24	236798	-	1	1	TUBE, breather	
25	236800	-	1	1	CLAMP, breather tube 1 910245 CAPSCREW 1 904206 LOCKWASHER 1 910324 NUT	
26	236799	-	1	1	BRACKET, breather tube clamp	
27	4500319	1	-	-	CAP, breather	
	207552	-	1	-	CAP, breather (Used prior to Eng. S/N D-03046)	
	4514464	-	1	1	CAP, breather (Eff. w/Eng. S/N D-03046)	
28	4504464	1	-	-	COVER ASSY., cylinder head	
	4513798	-	1	1	COVER ASSY., cylinder head	
29	4513480	1	1	1	GASKET, cylinder head cover	4514581-0 4514021
30	4513721	-	4	4	GASKET, fire ring (Eff. w/Eng. S/N 124338)	
31	4512323	1	1	-	GASKET, cylinder head (Used prior to Eng. S/N 124338)	4514581-0
	4513772	-	1	1	GASKET ASSY., cylinder head (Incl. item 30) (Eff. w/Eng. S/N 124338)	4514021
32	4505210	4	-	-	VALVE, exhaust	
	4513687-6	-	4	-	VALVE, exhaust (Replaces 4513355)	
	4514299	-	-	4	VALVE, exhaust	
33	4516730-1	4	4	-	INSERT, exhaust valve (Replaces 4513688)	
	4514297	-	-	4	INSERT, exhaust valve	
	4513698-3	*	*	-	INSERT, exhaust valve (.005" oversize) (Replaces 4513118)	
	4514311	-	-	*	INSERT, exhaust valve (.005" oversized) (* Used as required)	

Continued

CYLINDER HEAD & VALVES (Cont'd)

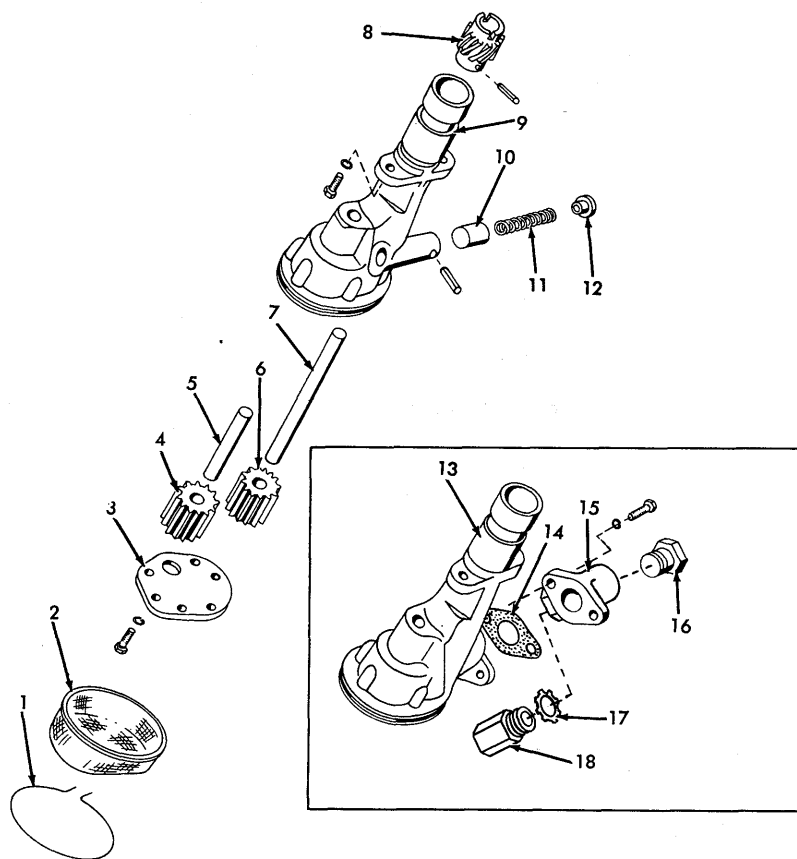
Diesel

* Used Prior to Eng. S/N 119505

** Used w/Eng. S/N 119505 Thru D-05032

*** Eff. w/Eng. S/N D-05033 & Up

ITEM	PART NUMBER	QTY.			DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**	***		
34	4506505	4	-	-	VALVE, intake	
	4513356	-	4	-	VALVE, intake	
	4514298	-	-	4	VALVE, intake	
35	4513810	8	8	8	STUD, fuel injection nozzle	
36	4513812	-	8	8	DAMPENER, valve spring (Not Illustrated)	



OIL PUMP Diesel

* Used Prior to Eng. S/N 114223

** Used Eng. S/N 114223 Thru 122309

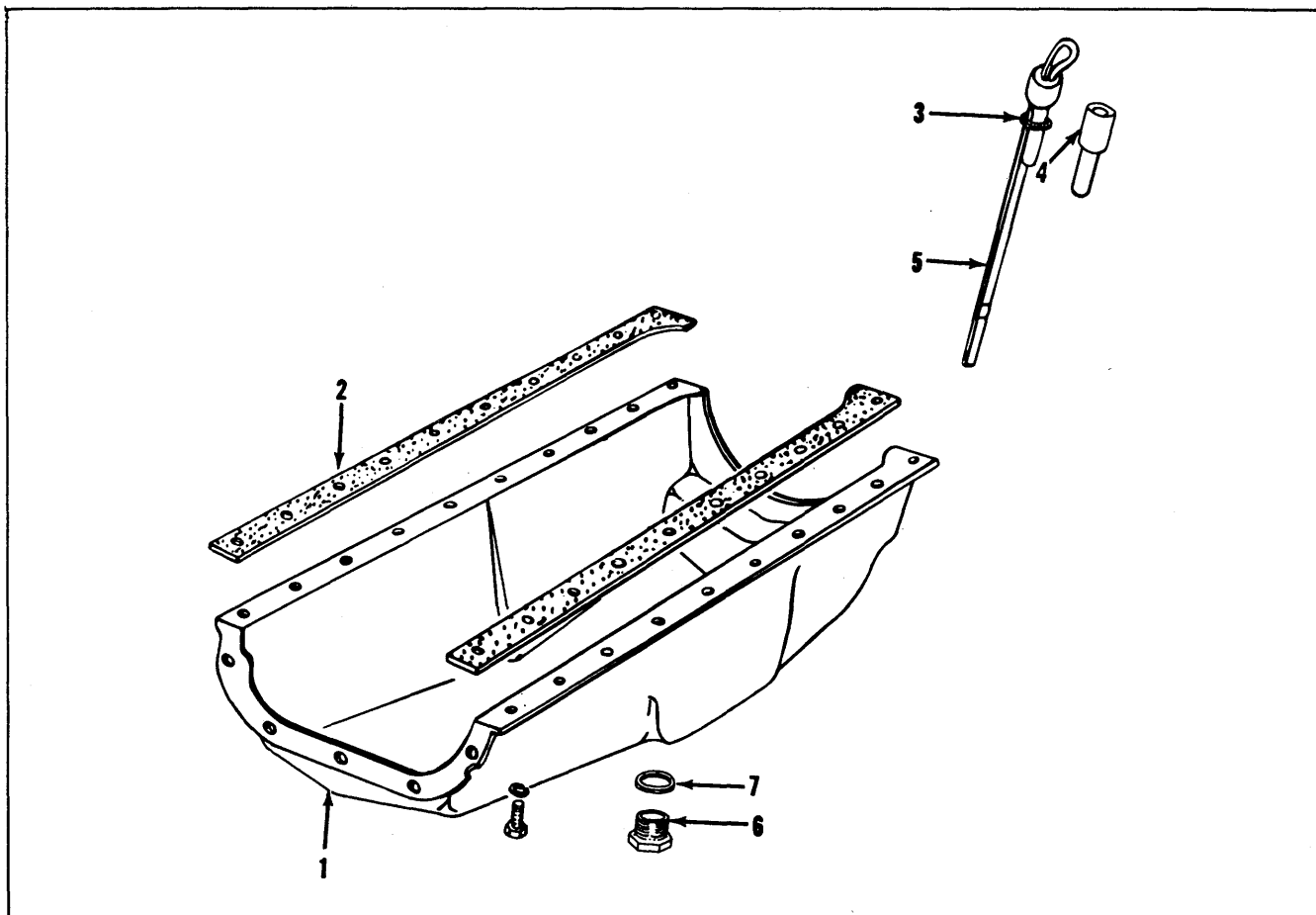
*** Eff. w/Eng. S/N 122310 & Up

ITEM	PART NUMBER	QTY.			DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**	***		
-	-----	1	-	-	PUMP ASSY., oil (Incl. items 3 thru 8 & 13) (Not serviced)	
	-----	-	1	-	PUMP ASSY., oil (Incl. items 3 thru 12) (Not serviced)	
	4513954	1	1	1	PUMP ASSY., oil (Incl. item 3 thru 12) (Replaces 4512830 and 4512996)	
					2 910245 CAPSCREW (Used prior to Eng. S/N 122310)	
					2 904206 LOCKWASHER	
					2 919226 CAPSCREW (Eff. w/ Eng. S/N 122310)	
1	4371122	1	1	1	WIRE, oil strainer	
2	4510693	1	1	1	STRAINER, oil	
3	4506926	1	1	1	COVER, oil pump	
				6	923408 CAPSCREW & LOCKWASHER ASSY.	
4	4506928	1	1	1	GEAR, idler	
5	4506929	1	1	1	SHAFT, idler gear	

Continued

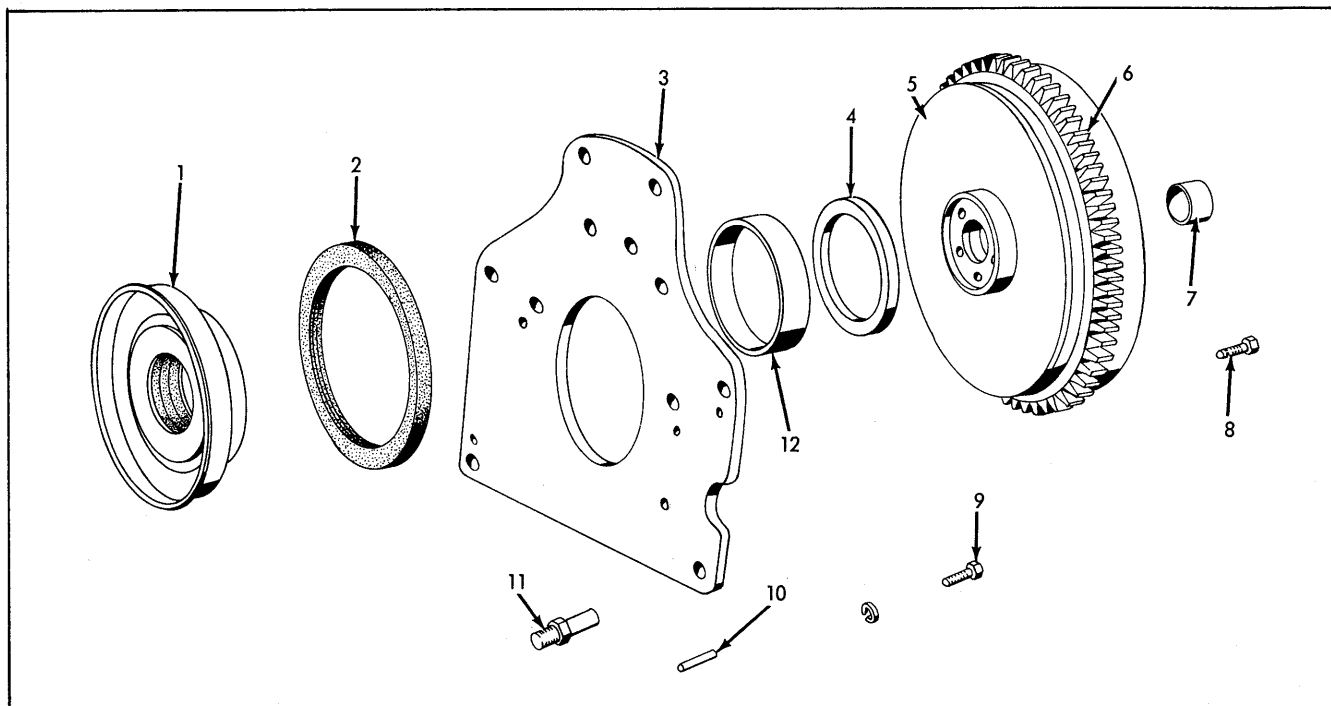
OIL PUMP (Cont'd)
 Diesel
 * Used Prior to Eng. S/N 114223
 ** Used Eng. S/N 114223 Thru 122309
 *** Eff. w/Eng. S/N 122310 & Up

ITEM	PART NUMBER	QTY. * ** ***			DESCRIPTION	ASSEMBLY OR PACKAGE NO.
6	4506928	1	1	1	GEAR, drive	
7	4506930	1	1	1	SHAFT, drive	
8	4506927	1	1	1	GEAR, drive	
					1 916202 PIN, roll	
	4513899	-	-	1	BODY, oil pump	
9	4512992	-	1	-	BODY, oil pump	
					1 915711 PIN, roll	
10	4513162	-	1	1	PISTON, relief valve	
11	4513163	-	1	1	SPRING, relief valve	
12	4513164	-	1	1	RETAINER, spring	
13	4512829	1	-	-	BODY, oil pump	
14	4508941	1	-	-	GASKET, flange	4511664
15	4511961	1	-	-	FLANGE, oil pump	
					1 903772 CAPSCREW	
					1 917139 CAPSCREW	
					2 904205 LOCKWASHER	
16	4512826	1	-	-	PLUG, relief valve	
17	4511965	1	-	-	WASHER, relief valve	
18	4511966	1	-	-	VALVE ASSY., relief	



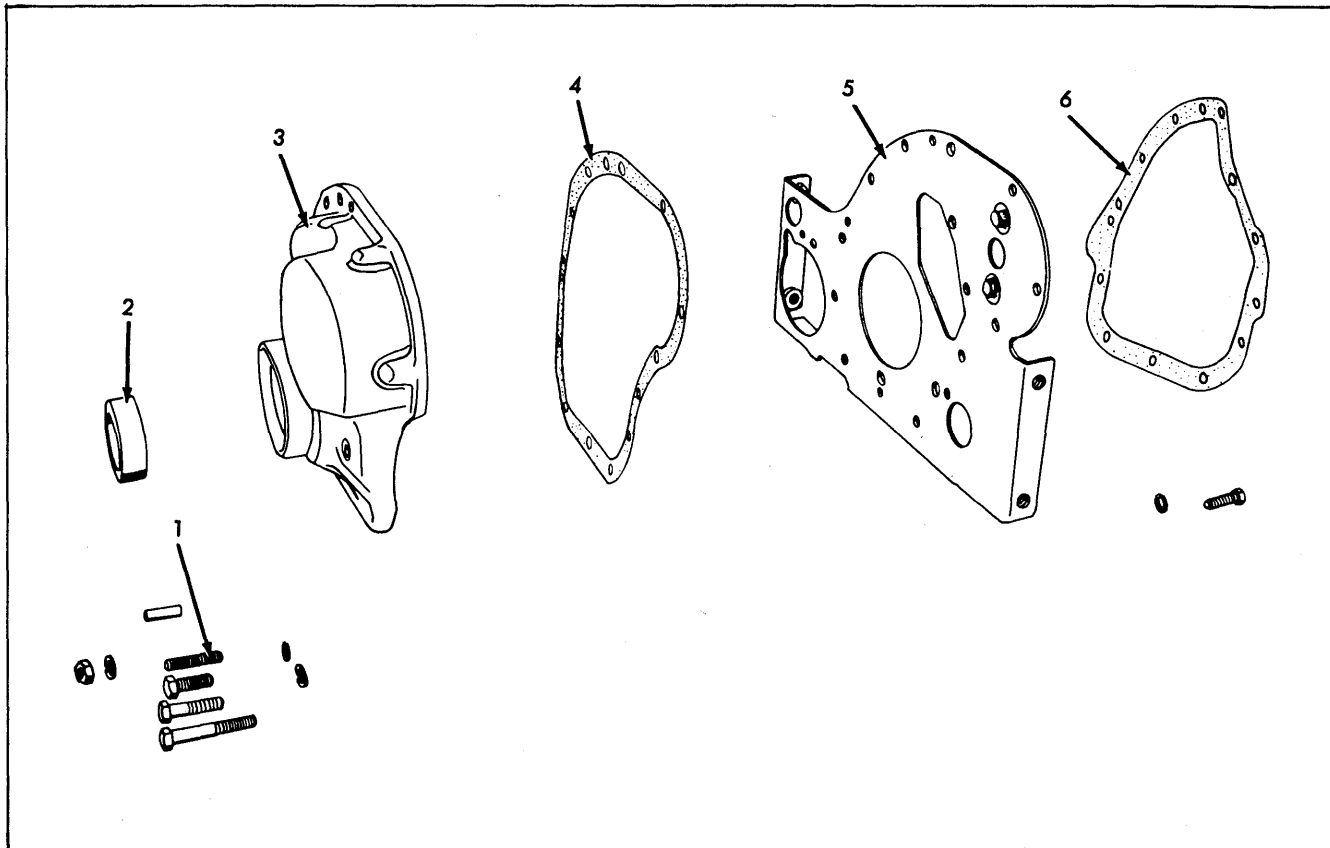
OIL PAN
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	4512590	1	PAN, oil	
		14	915408 CAPSCREW	
		14	904206 LOCKWASHER	
2	4501057	2	GASKET, oil pan	
3	4506607	1	SEAL, oil level gauge	
4	4506593	1	ADAPTOR, oil level gauge	
5	4509242	1	GAUGE, oil level (Incl. item 3)	
6	226408	1	PLUG, drain	
7	226012	1	GASKET, drain plug	



FLYWHEEL & RING GEAR
Diesel

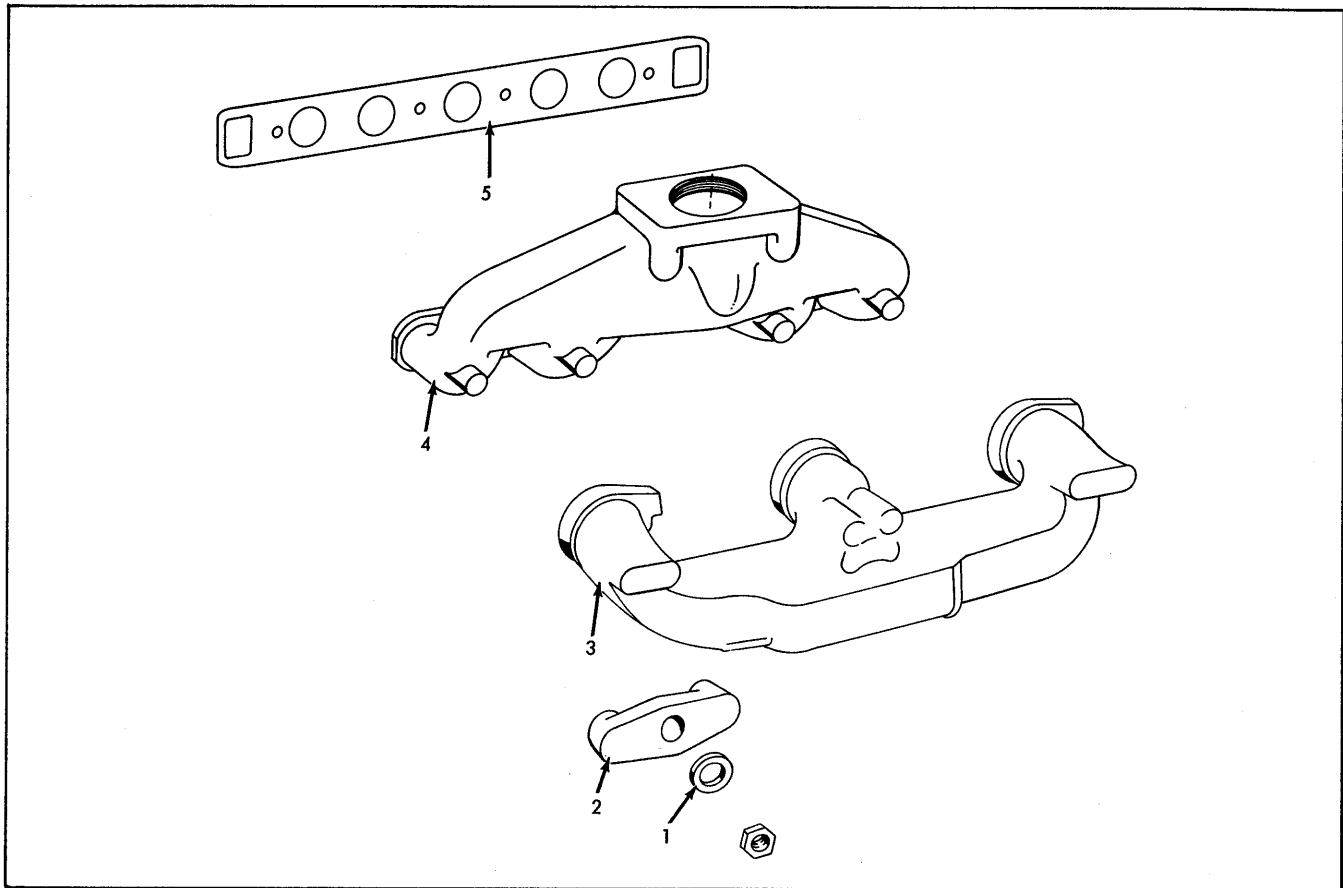
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	4509302	1	RETAINER, oil seal (Used prior to Eng. S/N 117356)	
	-----	1	SEAL, oil (Used w/Eng. S/N. 117356 thru D-06370) (Not serviced) Use Item 12 and 4514814	
	4516486-0	1	SEAL, oil (Eff. w/Eng. S/N D-06370) (Replaces 4514814)	
2	4502930	1	SEAL, oil, outer	
3	4513074	1	ADAPTOR, flywheel housing 2 917539 DOWEL	
4	4512559	1	SEAL, oil, inner (Used prior to Eng. S/N 117356)	
5	4516424-1	1	FLYWHEEL ASSY., (Incl. item 6 & 7) (Replaces 4512354)	
6	4516422-5	1	GEAR, ring (Replaces 4512680)	
7	228188	1	BUSHING, flywheel	
8	4254594	4	CAPSCREW	
9	916310	7	CAPSCREW 1 904208 LOCKWASHER	
10	4500300	2	DOWEL	
11	4512588-7	1	PIN, locator (Timing) (Replaces 4508897)	
12	4516033-0	1	SLEEVE, wear (Eff. w/Eng. S/N D-06370) (Replaces 4514813)	



GEAR COVER
Diesel

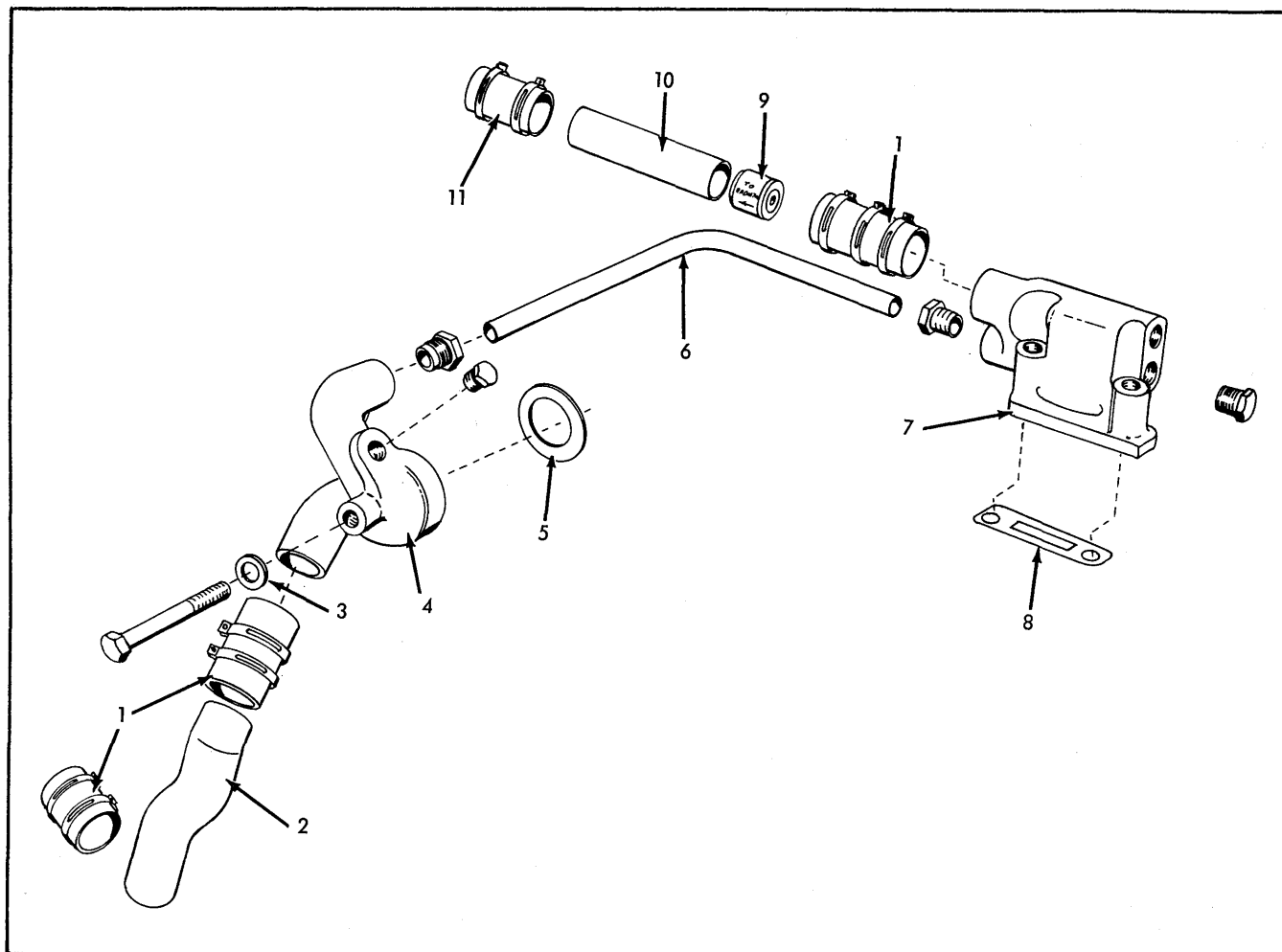
ITEM	NUMBER	QTY	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	4514034	1	STUD 1 910324 Nut, 3/8 NC 1 904206 Washer, lock, 3/8	
2	4513621	1	SEAL, oil, front	
3	4508830	1	COVER, gear 5 4513383 Capscrew 1 916274 Capscrew, 3/8 NC x 2-1/4 2 919224 Capscrew, 3/8 NC x 1-1/8 8 904206 Washer, lock, 3/8	
4	4507505	1	GASKET, gear cover	4511664
	4515487	1	PLATE ASSY., cylinder front	
	4515490	2	STUD 2 917539 Dowel, 3/8 x 1 3 916269 Capscrew, 3/8 NC x 7/8 3 904206 Washer, lock 3/8	
6	4508186	1	GASKET, front plate	4511664

MEMO



INTAKE & EXHAUST MANIFOLD
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	4506761	4	WASHER, clamp 4 4117050 NUT	
2	4508883	4	CLAMP, manifold	
3	4500673	1	MANIFOLD, intake (Used prior to Eng. S/N 118145)	
	4513584	1	MANIFOLD, intake (Eff. w/ Eng. S/N 118145)	
		1	919134 PLUG, pipe	
4	4512359	1	MANIFOLD, exhaust (Used prior to Eng. S/N D-05605)	
	4514134	1	MANIFOLD, exhaust (Eff. w/ Eng. S/N D-05605)	
5	4500832	1	GASKET, intake & exhaust port.	4514581-0 4514021



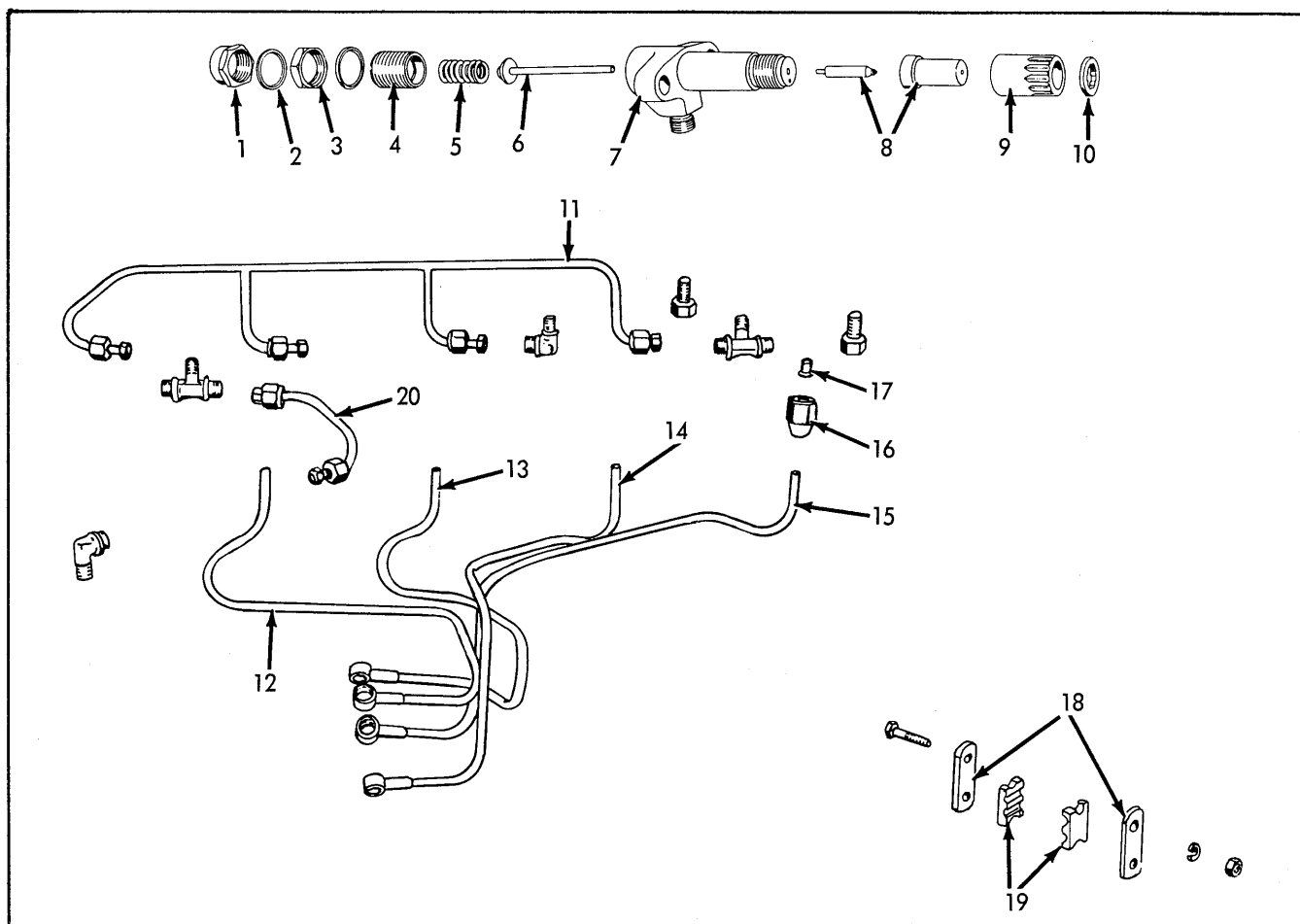
WATER INLET & OUTLET PIPES
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	203429	3	HOSE, radiator	
		2	921912 CLAMP, hose	
2	233488	1	PIPE, radiator outlet	
3	4251369	1	WASHER, copper	
		1	906700 CAPSCREW	
4	4512912	1	PIPE, water inlet	
		1	920333 PLUG, pipe	
5	4500291	1	GASKET, water inlet pipe	4514581-0
				4514021
6	4512914	1	TUBE, by-pass	
		2	918872 NUT, hy-duty (Incl. SLEEVES)	
7	4512876	1	ELBOW, water outlet	
		2	920416 PLUG, pipe	
8	4513722-1	1	GASKET, water outlet elbow (Replaces 4512875)	4514581-0
	4513722	1	GASKET, water outlet elbow	4514021

Continued

WATER INLET & OUTLET PIPES (Cont'd.)
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
9	4512377	1	THERMOSTAT	
10	234415	1	PIPE, radiator inlet	
11	234414	1	HOSE, radiator top	
		2	921912 CLAMP, hose	



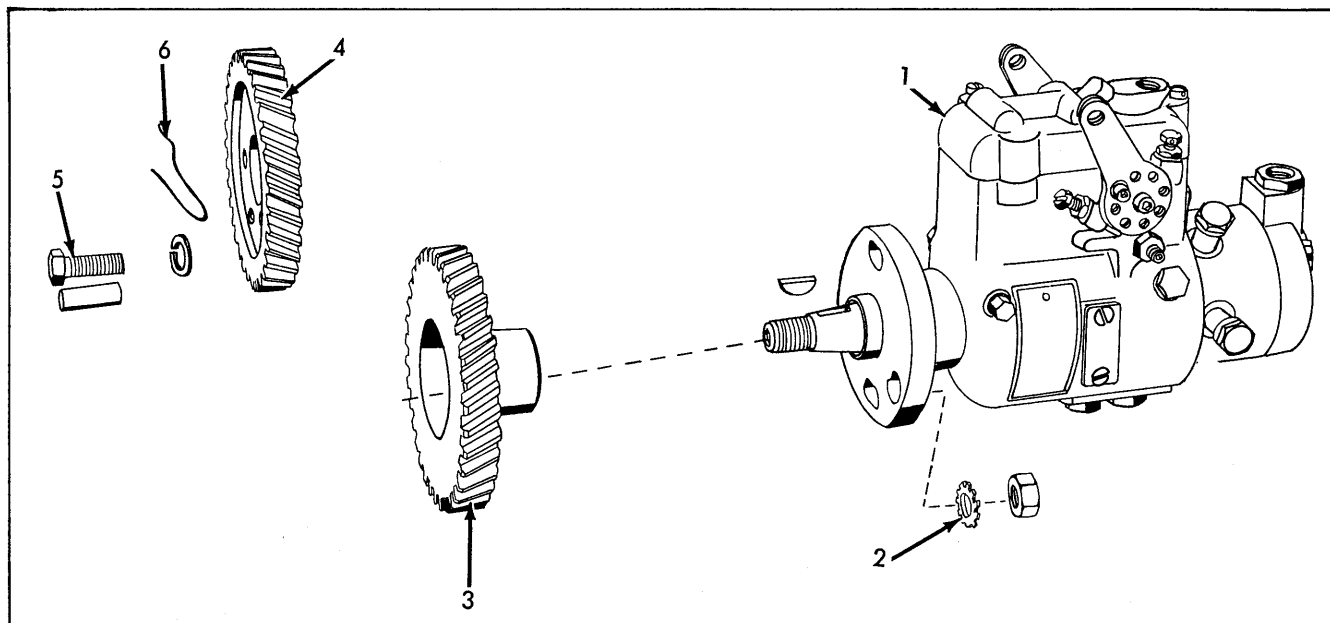
FUEL INJECTION NOZZLES & LINES
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	4511200	4	HOLDER ASSY., injection nozzle (Incl. Items 1 thru 10) (Used Prior to Eng. S/N D-05033)	
	4516394-6	4	HOLDER ASSY., injection nozzle (Incl. Items 1 thru 10) (Replaces 4514313)	
	2	910123	NUT	
	2	904206	LOCKWASHER	
1	4511215	4	NUT, cap	
2	4511243	8	GASKET, cap nut	
3	4511213	4	NUT, adjusting screw	
4	4378033-7	4	SCREW, adjusting (Replaces 4511214)	
5	4380652	4	SPRING, spindle rod	
6	4511208	4	ROD, spindle	
7	-----	4	BODY, nozzle holder (Not serviced. Order Holder Assy.)	
8	4511201	4	NOZZLE ASSY. (Incl. Item 10) (Used prior to Eng. S/N D-05033)	
	4516393-8	4	NOZZLE ASSY. (Incl. Item 10) (Replaces 4514314)	

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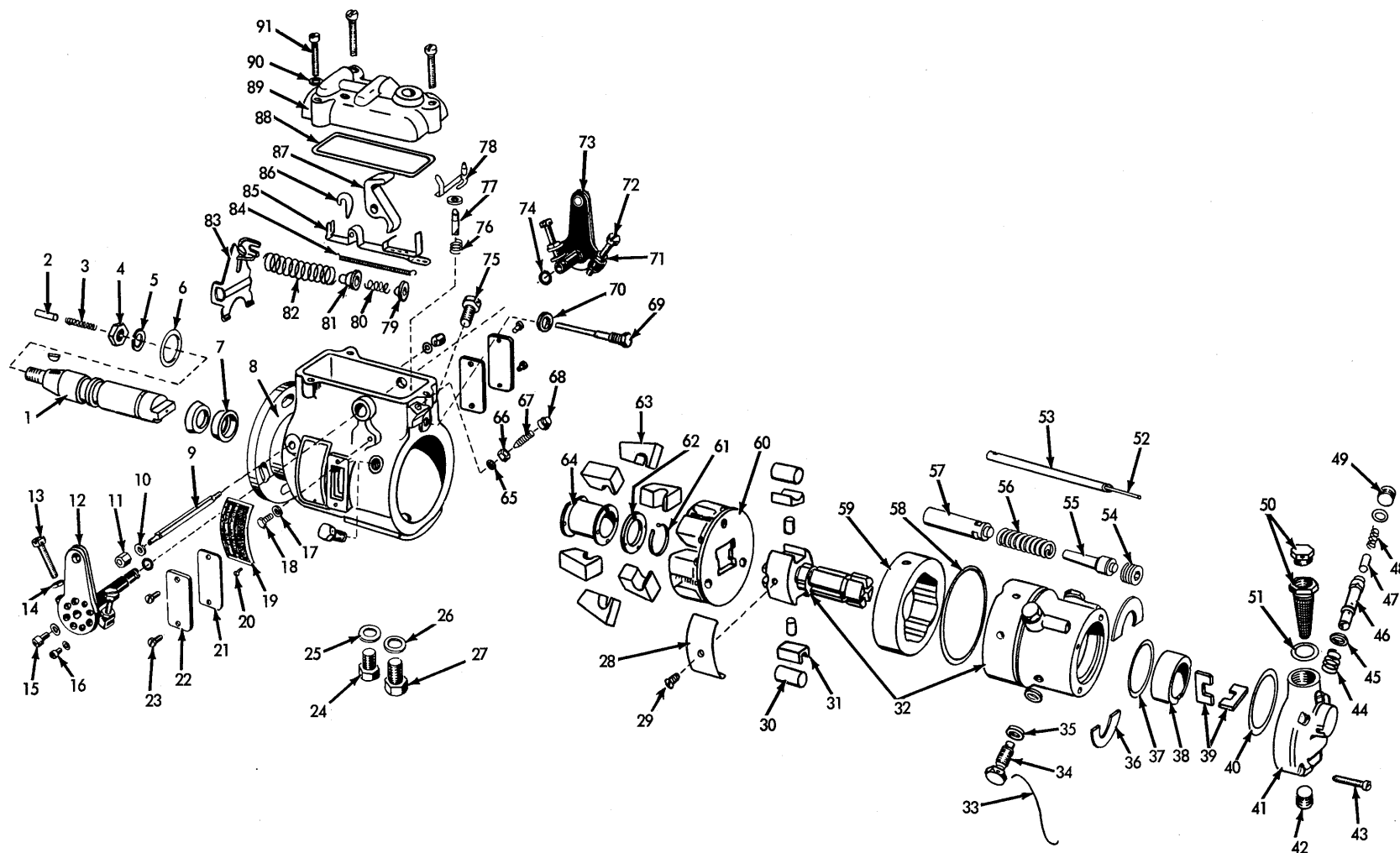
FUEL INJECTION NOZZLES & LINES (Cont'd.)
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
9	4511217	4	NUT, nozzle retaining	
10	4511204	4	GASKET, nozzle holder to cylinder head	4514581-0 4514021
11	4512329-6	1	TUBE ASSY., drip manifold (Incl. NUTS & SLEEVES) (Replaces 4512324)	
		1	917806 SLEEVE	
		2	919040 ELBOW (No. 2 & 3 nozzle)	
		2	919041 TEE (No. 1 & 4 nozzle)	
		1	917809 NUT	
12	4512330	1	LINE, fuel (no. 1 cylinder)	
13	4512331	1	LINE, fuel (no. 2 cylinder)	
14	4512332	1	LINE, fuel (no. 3 cylinder)	
15	4512333	1	LINE, fuel (no. 4 cylinder)	
16	4504409	4	NUT, fuel line	
17	4501149	4	SLEEVES, fuel line	
18	4507414	4	PLATE, fuel line clamp	
		4	905658 CAPSCREW	
		4	904204 LOCKWASHER	
		4	910880 NUT	
19	4507358	4	SPACER, fuel line clamp	
20	4510764-6	1	TUBE ASSY., overflow (Incl. NUTS & SLEEVES) (Replaces 4510774)	
		6	917806 SLEEVE	
		6	917809 NUT	



FUEL INJECTION PUMP
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	4512325	1	PUMP ASSY., fuel injection (Muckland Tractor) (2000RPM) (Used prior to S/N D-03548) (Refer to page 70 for component parts)	
	4513092	1	PUMP ASSY., fuel injection (Used prior to Eng. S/N 117742) (1650 RPM) (Refer to page 70 for component parts)	
	4513635	1	PUMP ASSY., fuel injection (Used Eng. S/N 117742 thru D-08499)(1650 RPM)(Refer to page 76 for component parts)	
	4513634	1	PUMP ASSY., fuel injection (Muckland Tractor) (2000RPM)(Eff. w/Eng. S/N D-03548) (Refer to page 76 for component parts)	
	4515366	1	PUMP ASSY., fuel injection (1800 RPM) (Eff. w/Eng. S/N D-08500) (Refer to page 76 for component parts)	
2	910123		NUT	
2	4371718	2	WASHER, serrated, pump mounting	
3	4512327	1	GEAR, driven	
4	4516087-6	1	GEAR, drive (Replaces 4507468)	
	1 917552		DOWEL	
5	4300532	3	CAPSCREW, drive gear	
	1 904206		LOCKWASHER	
	4255723	3	BOLT, (Eff. Eng. S/N D 11028)	
6	4509035	1	LOCKWIRE, capscrew (Prior Eng. S/N D11028)	



FUEL INJECTION PUMP
 Used Prior to Eng. S/N 117742
 Muckland Tractor Prior to Eng. S/N D-03548

FUEL INJECTION PUMP					ASSEMBLY OR PACKAGE NO.
Used Prior to Eng. S/N 117742					
ITEM	PART NUMBER	QTY.	DESCRIPTION		
-	4512325	1	PUMP ASSY., fuel injection (Incl. items 1 thru 93) (Muckland Tractor) (2000 R.P.M.)		
-	4513092	1	PUMP ASSY., fuel injection (Incl. items 1 thru 93) (1650 R.P.M.) (Used prior to Eng. S/N 117742)		
1	4053204	1	SHAFT, drive 1 910244 KEY		
2	4048599	1	BUTTON, thrust		
3	4048600	1	SPRING, thrust button		
4	4048597	1	NUT, drive shaft		
5	4048598	1	LOCKWASHER, drive shaft		
6	4048596	1	SEAL, pilot		
7	4052540	2	SEAL, drive shaft	4051927	
8	4051493	1	HOUSING ASSY., pump		
9	4048636	1	SHAFT, governor arm pivot		
10	4050910	2	SEAL, pivot shaft.	4051927	
11	4048642	2	NUT, pivot shaft cap		
12	4054580-8	1	SHAFT ASSY., throttle (replaces 4049225)		
13	4048645-8	1	SCREW, throttle arm adjusting (low idle) (Replaces 4048632)		
	4051799	1	SCREW, throttle arm adjusting (high idle)		
14	4369507	2	NUT, adjusting screw		
15	4048647	2	SCREW, retaining, throttle lever & shut-off 2 906957 LOCKWASHER		
16	4050913	2	SCREW, positioning, throttle lever & shut-off 2 912739 LOCKWASHER		
17	4369878	2	SEAL, torque screw cap.	4051927	
18	4048618	1	NUT, torque screw		
19	4048617	1	SCREW, torque		
20	4052917	1	CAP, torque screw (Not Illustrated)		
21	4369428	1	PLATE, name		
22	4369429	2	SCREW, name plate (Not Illustrated)		
23	4048604	2	GASKET, timing line cover	4051927	
24	4048603	2	COVER, timing line		
25	4048605	4	SCREW, timing line cover		
26	4048602	1	SEAL, cam screw hole	4051927	
27	4048649	1	SEAL, head locating screw	4051927	

Continued

FUEL INJECTION PUMP-(Cont'd.) Used Prior to Eng. S/N 117742 Muckland Tractor Prior to Eng. S/N D-03548					ASSEMBLY OR PACKAGE NO.
ITEM	PART NUMBER	QTY.	DESCRIPTION		
28	4048601	1	PLATE, cam locating		
29	4369595	1	SEAL, head locating screw		
30	4052742	1	SCREW, head locating		
31	4051374	1	SCREW, cam locating		
32	4369452	1	WASHER, cam locating screw	4051927	
33	4054037-9	1	SPRING, main leaf (Replaces 4051372)		
34	4053362	1	SCREW, leaf spring		
35	4051381	1	SCREW, head plug		
36	4369436	2	ROLLER, cam		
37	4048608	2	SHOE, cam roller		
38	4053391	1	HEAD ASSY., hydraulic (Incl. ROTOR & PLUNGER) 1 4051387 WIRE, vent 1 4052541 WIRE, retainer		
39	4369430	7	WIRE, locking		
40	4369451	4	SCREW, fuel line connector		
41	4051956	8	WASHER, fuel line connector screw		
42	4051385	2	RETAINER, rotor		
43	4051386	1	RING, rotor retainer		
44	4051376-4	1	LINER, transfer pump (Replaces 4049531)		
45	4369447	2	BLADE, transfer pump		
46	4050417-7	1	SEAL, transfer pump (Replaces 4369448)	4051927	
47	4048612	1	PLATE ASSY., end		
48	4056351-4	1	PLUG, end plate (Replaces 4053264) 1 4053265 SEAL, plug		
49	4050912	4	SCREW, end plate		
50	4369593	1	SPRING, piston retaining		
51	4369595	2	SEAL, end plate	4051927	
52	4053382	1	SLEEVE, end plate		
53	4369596	1	PISTON, regulating		
54	4040480	1	SPRING, regulating		

Continued

FUEL INJECTION PUMP (Cont'd.)

Used Prior to Eng. S/N 117742

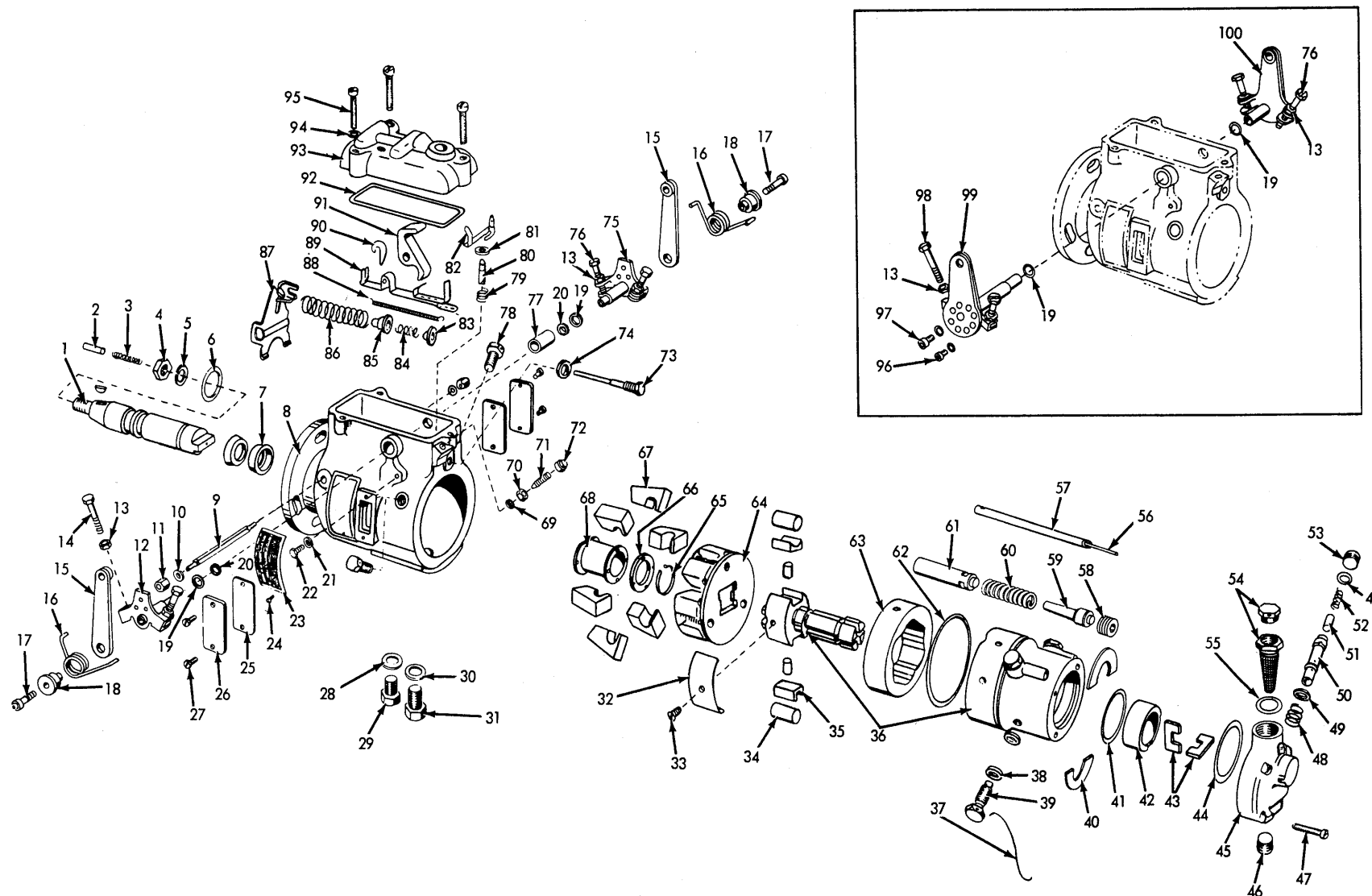
Muckland Tractor Prior to Eng. S/N D-03548

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
55	4369598	*	PLUG, end plate (No. -)	(* Use as required)
	4051948	*	PLUG, end plate (No. 1)	
	4051949	*	PLUG, end plate (No. 2)	
	4051950	*	PLUG, end plate (No. 3)	
	4051951	*	PLUG, end plate (No. 4)	
	4051952	*	PLUG, end plate (No. 5)	
	4051953	*	PLUG, end plate (No. 6)	
	4051954	*	PLUG, end plate (No. 7)	
	4051955	*	PLUG, end plate (No. 8)	
56	4369601	1	FILTER ASSY.	
57	4369599	1	SEAL, filter	4051927
58	4051379	1	SPRING, delivery valve	
59	4053384	1	VALVE, delivery	
60	4052539	1	STOP, delivery valve (Not Illustrated)	
61	4052538	1	SCREW, delivery valve (Not Illustrated)	
62	4369444	1	SEAL, hydraulic head	4051927
63	4051497	1	RING, cam	
64	4051388	2	SCREW, hydraulic head plug	
65	4059496-9	1	RETAINER ASSY., governor weight (Replaces 4052755)	
66	4253433	1	RING, retaining, governor weight	
67	4048620	1	WASHER, thrust	
68	4048621	6	WEIGHT, governor	
69	4048619	1	SLEEVE, governor thrust (Used prior to pump S/N 268020)	
70	4053589	1	SLEEVE, governor thrust (Eff. w/Pump S/N 268020)	
	4051378	1	STUD, guide	
71	4048650	1	WASHER, stud guide	
72	4369507	2	NUT	
73	4048632	2	SCREW, shut-off & low idle	
74	4049224	1	SHAFT ASSY., shut-off (Incl. Items	
75	4047643	1	SPACER, throttle shaft lever	
76	4369878	2	SEAL, throttle shaft & shut-off shaft	4051927

Continued

FUEL INJECTION PUMP (Cont'd.)				ASSEMBLY OR PACKAGE NO.
ITEM	PART NUMBER	QTY.	DESCRIPTION	
			Used Prior to Eng. S/N 117742	
			Muckland Tractor Prior to Eng. S/N D-03548	
77	4048610	2	SCREW, head locking	
78	4054596-4	1	VALVE, metering (Replaces 4051498)	
		1	4052915 SHIM	
79	4051502	1	SPRING, metering valve	
80	4053545	1	ARM ASSY., metering valve	
81	4048627	1	GUIDE, idling spring	
82	4049533	1	SPRING, idling	
83	4048635	1	RETAINER, spring	
84	4050481	1	SPRING, governor control	
85	{ 4051812	1	ARM, governor (Used prior to Pump S/N 268020)	
	4053590	1	ARM, governor (Eff. w/Pump S/N 268020)	
86	4048624	1	SPRING, governor linkage	
87	4052156	1	HOOK ASSY., governor linkage	
88	4048639	1	CAM, shut-off	
89	4048637	1	LEVER, throttle shaft	
90	4048630	1	GASKET, control cover 4051927	
91	4051002	1	COVER, governor control	
92	4053267	3	WASHER, governor control cover	
93	4053266	3	SCREW, governor control cover	
		3	906957 LOCKWASHER	

MEMO



FUEL INJECTION PUMP
 Used Eng. S/N 117742 Thru D-08499
 Eff. w/Eng. S/N D-08500
 Muckland Tractor Eff. w/Eng. S/N D-03548

FUEL INJECTION PUMP
 * Used Eng. S/N 117742 Thru D-08499
 ** Eff. w/ Eng. S/N D-08500
 *** Muckland Tractor Eff. Eng. S/N D-03548

ITEM	PART NUMBER	QTY. * ** ***			DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	4513635	1	-	-	PUMP ASSY., injection (Incl. items 1 thru 100) (1650 RPM)	
	4515366	-	1	-	PUMP ASSY., injection (Incl. items 1 thru 100) (1800 RPM)	
	4513634	-	-	1	PUMP ASSY., injection (Incl. items 1 thru 100) (2000 RPM)	
1	4053204	1	1	1	SHAFT, drive 1 910224 KEY	
2	4054844	1	1	1	BUTTON, thrust	
3	4048600	1	1	1	SPRING, thrust button	
4	4048597	1	1	1	NUT, drive shaft	
5	4048598	1	1	1	LOCKWASHER, drive shaft nut	
6	4048596	1	1	1	SEAL, pilot tube	.4054433
7	4052540	2	2	2	SEAL, drive shaft	.4054433
8	4055015	1	1	1	HOUSING ASSY., pump (Incl. item 77)	
9	4048636	1	1	1	SHAFT, governor arm pivot	
10	4050910	2	2	2	SEAL, pivot shaft	.4054433
11	4048642	2	2	2	NUT, pivot shaft	
12	4054580	1	1	1	SHAFT ASSY., throttle (Eff. w/Pump S/N 473965)	
13	4369507	4	4	4	NUT, adjusting screw	
14	4048645	2	-	-	SCREW, adjusting (High & Low idle) (Eff. w/Pump S/N 473965)	
	4048645	-	1	1	SCREW, adjusting (Low idle)	
	4051799	-	1	1	SCREW, adjusting (High idle)	
15	4054594	2	2	2	LEVER ASSY., throttle & shut-off (Eff. w/Pump S/N 473965)	
16	4051413	2	2	2	SPRING, throttle & shut-off lever (Eff. w/Pump S/N 473965)	
17	4051411	2	2	2	SCREW, spring retainer (Eff. w/Pump S/N 473965)	
18	4051412	2	2	2	RETAINER, spring (Eff. w/Pump S/N 473965)	
19	4053375	2	2	2	WASHER, throttle & shut-off shaft	.4054433

Continued

FUEL INJECTION PUMP (Cont'd)
 * Used Eng. S/N 117742 Thru D-08499
 ** Eff. w/ Eng. S/N D-08500
 *** Muckland Tractor Eff. Eng. S/N D-03548

ITEM	PART NUMBER	QTY.			DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**	***		
20	4369878	2	2	2	SEAL, throttle & shut-off shaft	4054433
21	4369432	1	1	1	WASHER, plug	4054433
22	4051833	1	1	1	SCREW, torque screw hole	
23	4369428	1	1	1	PLATE, name	
24	4369429	2	2	2	SCREW, name plate	
25	4048604	2	2	2	GASKET, timing line cover	4054433
26	4048603	2	2	2	COVER, timing line	
27	4048605	4	4	4	SCREW, timing line cover	
28	4369452	1	1	1	WASHER, cam locking screw	
29	4051374	1	1	1	SCREW, cam locking	
30	4369595	1	1	1	SEAL, head locating screw	4054433
31	4052742	1	1	1	SCREW, head locating	
32	4054037-9	1	1	1	SPRING, leaf (Replaces 4051372)	
33	4053362	1	1	1	SCREW, leaf spring	
34	4369436	2	2	2	ROLLER, cam	
35	4048608	2	2	2	SHOE, cam roller	
36	4053391	1	1	1	HEAD ASSY., hydraulic (Incl. PLUNGERS, items 56, 57 and screws indented below) 1 4051381 SCREW, head plug 2 4051388 SCREW, head plug	
37	4369430	6	6	6	WIRE, locking	
38	4027748-5	8	8	8	WASHER, fuel line connector. (Replaces 4056256)	4054433
39	4369451	4	4	4	SCREW, fuel line connector	
40	4051385	2	2	2	RETAINER, rotor	
41	4051386	1	1	1	RING, rotor retainer	
42	4051376	1	1	1	LINER, transfer pump	
43	4369447	2	2	2	BLADE, transfer	
44	4050417	1	1	1	SEAL, transfer pump	4054433
45	4048612	1	1	1	PLATE ASSY., end	
46	4056350	1	1	1	PLUG, end plate	
47	4050912	4	4	4	SCREW, end plate	

Continued

FUEL INJECTION PUMP (Cont'd)
 * Used Eng. S/N 117742 Thru D-08499
 ** Eff. w/Eng. S/N D-08500
 *** Muckland Tractor Eff. Eng. S/N D-03548

ITEM	PART NUMBER	QTY. * ** ***			DESCRIPTION	ASSEMBLY OR PACKAGE NO.
48	4369593	1	1	1	SPRING, piston retaining	
49	4369595	2	2	2	SEAL, end plate sleeve	4054433
50	4053382	1	1	1	SLEEVE, end plate	
51	4369596	1	1	1	PISTON, regulating	
52	4040480	1	1	1	SPRING, regulating	
53	4369598	*	*	*	PLUG, end plate (std.)	Use as required
	4051948	*	*	*	PLUG, end plate (No. 1-.020)	
	4051949	*	*	*	PLUG, end plate (No. 2-.030)	
	4051950	*	*	*	PLUG, end plate (No. 3-.040)	
	4051951	*	*	*	PLUG, end plate (No. 4-.050)	
	4051952	*	*	*	PLUG, end plate (No. 5-.060)	
	4051953	*	*	*	PLUG, end plate (No. 6-.070)	
	4051954	*	*	*	PLUG, end plate (No. 7-.080)	
	4051955	*	*	*	PLUG, end plate (No. 8-.090)	
54	4369601	1	1	1	FILTER ASSY.	
55	4369599	1	1	1	SEAL, filter	4054433
56	4051387	1	1	1	WIRE, vent	
57	4052541	1	1	1	RETAINER, vent wire	
58	4052538	1	1	1	SCREW, retaining (Delivery valve)	
59	4052539	1	1	1	STOP, delivery valve	
60	4051379	1	1	1	SPRING, delivery valve	
61	4053384	1	1	1	VALVE, delivery (Std.)	
	4055937	*	*	*	VALVE, delivery (.001" oversize, black finish on bottom) (Use as required)	
62	4369444	1	1	1	SEAL, hydraulic head	4054433
63	4051497	1	1	1	RING, cam	
64	4055036	1	-	-	RETAINER ASSY., governor weight (Incl. flexible ring)	
	4058900	-	1	1	RETAINER ASSY., governor weight (Incl. flexible ring)	
	4059596-9	-	1	1	RETAINER ASSY., governor weight	
	4056226	1	1	1	RING, flexible retaining	

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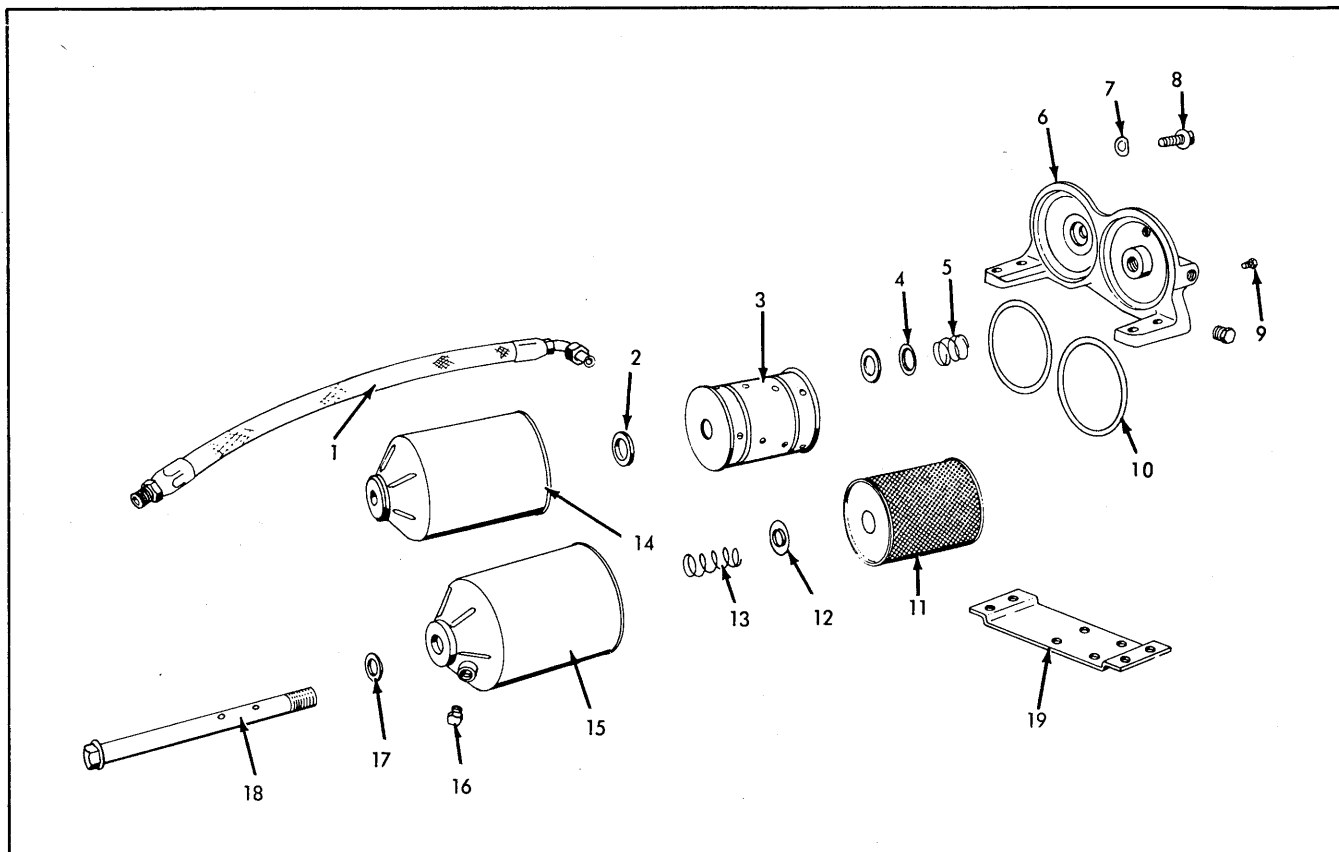
FUEL INJECTION PUMP (Cont'd)
 * Used Eng. S/N 117742 Thru D-08499
 ** Eff. w/Eng. S/N D-08500
 *** Muckland Tractor Eff. Eng. S/N D-03548

ITEM	NUMBER	QTY .			DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**	***		
65	4253433	1	1	1	RING, retainer, governor weight	
66	4048620	1	1	1	WASHER, governor thrust sleeve	
67	4048621	6	6	6	WEIGHT, governor	
68	4053590	1	1	1	SLEEVE, governor thrust	
69	4369878	1	1	1	SEAL, torque screw.	4054433
70	4054583	1	1	1	NUT, torque screw	
71	4054582	1	1	1	SCREW, torque	
72	4052917	1	1	1	CAP, torque screw	
73	4051378	1	1	1	STUD, guide	
74	4048650	1	1	1	WASHER, guide stud.	4054433
75	4054845	1	1	1	SHAFT ASSY., shut-off (Eff. w/Pump S/N 473965)	
76	4048632	2	2	2	SCREW, shut-off adjusting	
77	4055442	2	2	2	BUSHING, throttle & shut-off shaft	
78	4048610	2	2	2	SCREW, head locking	
79	4051502	1	1	1	SPRING, metering	
80	4054596-9	1	1	1	VALVE, metering (Replaces 4051498)	
81	4052915	1	1	1	SHIM, metering valve	
82	4054579	1	1	1	ARM ASSY., metering valve	
83	4048627	1	1	1	GUIDE, idling spring	
84	4049533	1	1	1	SPRING, idling	
85	4048635	1	1	1	RETAINER, control spring	
86	4050481	1	1	1	SPRING, governor control	
87	4053589	1	1	1	ARM, governor	
88	4048624	1	1	1	SPRING, governor linkage	
89	4052156	1	1	1	HOOK ASSY., governor linkage	
90	4048639	1	1	1	CAM, shut-off	
91	4049532	1	1	1	LEVER, throttle shaft	
92	4048630	1	1	1	GASKET, control cover	4054433
93	4051002	1	1	1	COVER, governor control	

Continued

FUEL INJECTION PUMP (Cont'd)
 * Used Eng. S/N 117742 Thru D-08499
 ** Eff. w/ Eng. S/N D-08500
 *** Muckland Tractor Eff. Eng. S/N D-03548

ITEM	NUMBER	QTY.			DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**	***		
94	4053267	3	3	3	WASHER, control cover screw	
95	4053266	3	3	3	SCREW, control cover 1 906957 LOCKWASHER	
96	4050913	2	-	2	SCREW, positioning 1 912739 WASHER, plain	Used prior to Pump S/N 473965
97	4055624	2	-	2	SCREW, retaining 1 906957 LOCKWASHER	
98	4048632	1	-	1	SCREW, low idle adjusting	
	4051799	1	-	1	SCREW, high idle adjusting	
99	4049225	1	-	1	SHAFT ASSY., throttle (Incl. items 96 & 97)	
100	4049224	1	-	1	SHAFT ASSY., shut-off (Incl. items 96 & 97)	



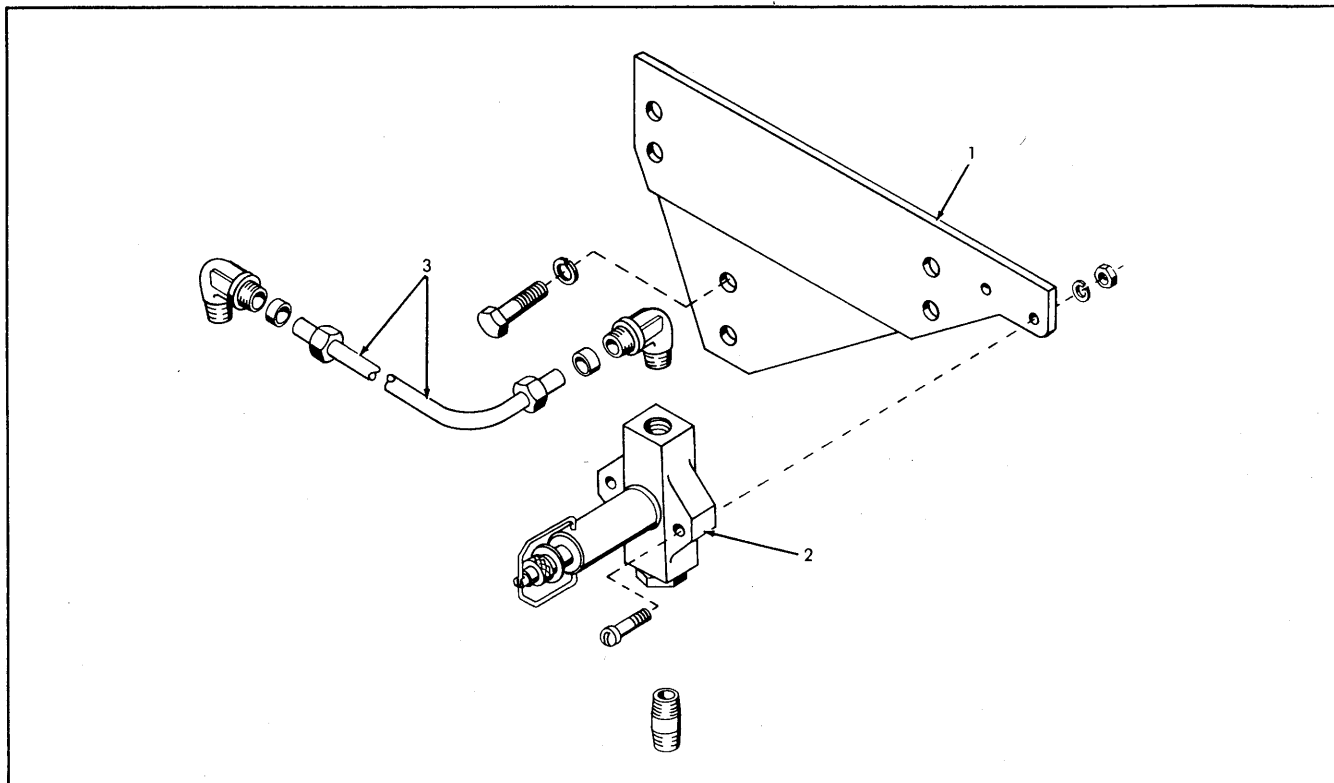
FUEL FILTERS Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	4368856	1	LINE ASSY., fuel (Filter to pump) (Used w/oil bath air cleaner)	
		1	921371 ELBOW (filter end)	
		1	918374 ELBOW (pump end)	
	236258	1	LINE, fuel, filter to pump (Used w/Dry air cleaner)	
		1	914328 ELBOW (to filter)	
		1	----- ELBOW (to injection pump)	
2	4041209	2	GASKET, cartridge	
3	4048796	1	CARTRIDGE ASSY., (Incl. items 2 & 10)	
4	4048794	1	RETAINER, spring	
5	4048793	1	SPRING	
6	4508844	1	HEAD, primary and secondary fuel filter	
			(Used prior to Eng. S/N 119406)	
		4	903631 CAPSCREW	
		4	904206 LOCKWASHER	
		1	901652 PLUG, pipe	
	4512787	4	910324 NUT	
		1	HEAD ASSY., (Incl. HELI COIL INSERT & PLUGS)	
			(Eff. w/Eng. S/N 119406)	
		4	903631 CAPSCREW	
		4	904206 LOCKWASHER	
		1	919840 PLUG, pipe vent	
		1	919134 PLUG, pipe	

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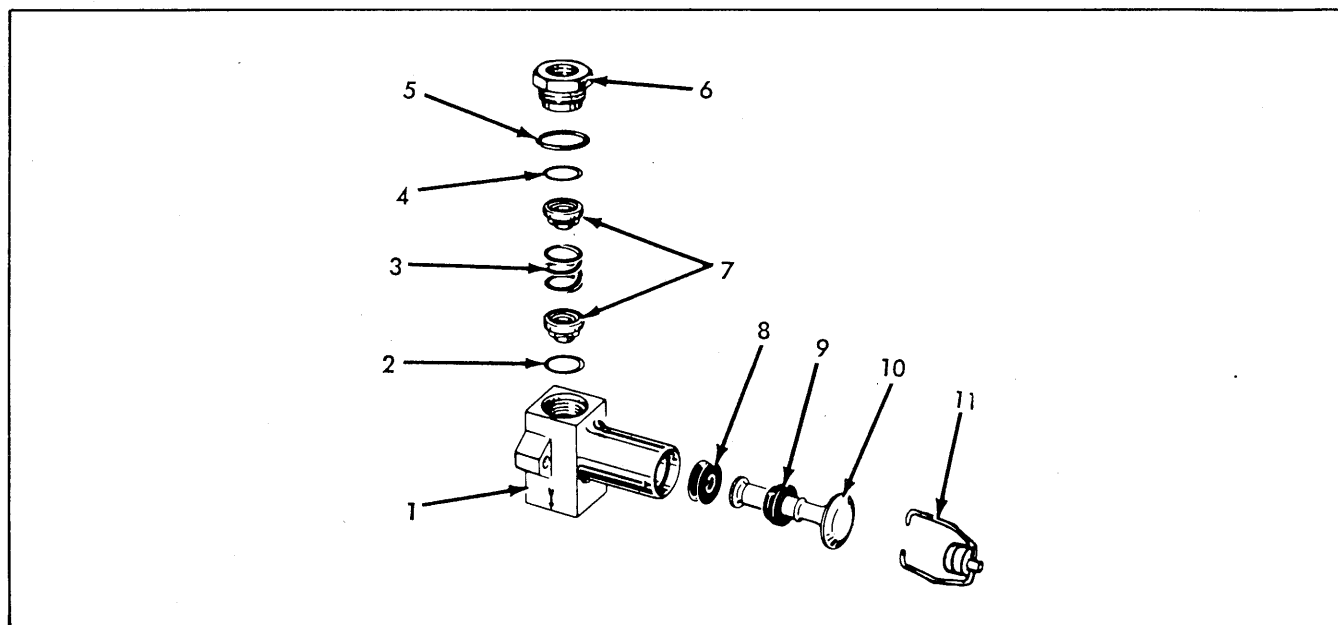
FUEL FILTERS (Cont'd)
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
7	4506164	1	GASKET, capscrew	
8	4506163	1	CAPSCREW, fuel filter	
9	4506903	1	PLUG, vent (Used prior to Eng. S/N 119406)	
10	4048787	1	GASKET, body to head	
11	4048789	1	CARTRIDGE (Incl. item 10)	
12	4506918	1	WASHER, spring face	
13	4048790	1	SPRING	
14	4048797	1	BODY	
15	4048788	1	BODY, fuel filter	
16	4506908	1	PLUG, drain	
17	4048791	1	GASKET, center bolt	
18	4048792	1	BOLT, center	
19	4512583	1	BRACKET, fuel filter mounting (Used w/Oil Bath air cleaner)	
		2	903775 CAPSCREW	
		2	904206 LOCKWASHER	
	236257	1	BRACKET, fuel filter mounting (Used w/Dry Air Cleaner)	
		4	903631 CAPSCREW	
		4	904206 LOCKWASHER	
		4	910324 NUT	



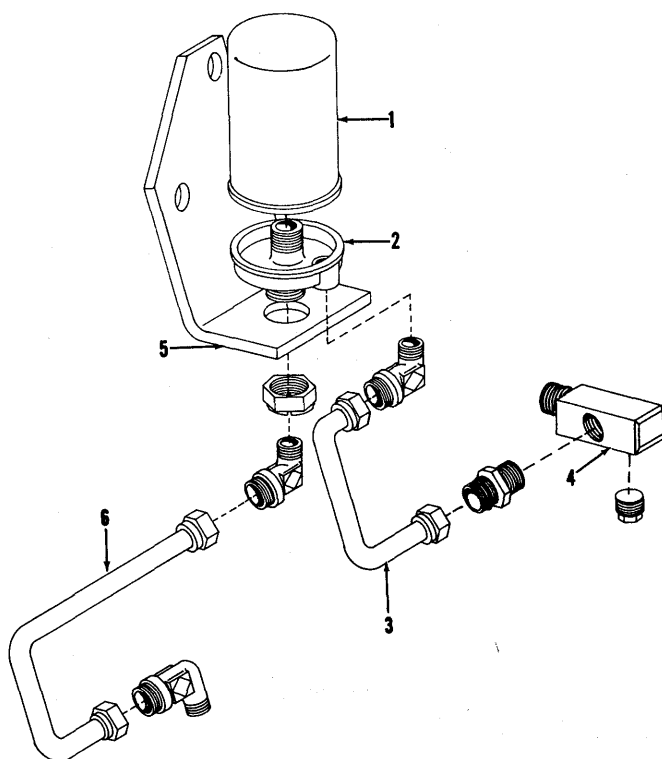
PRIMER PUMP & LINES
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	4512583	1	BRACKET, filter head & primer pump (Refer to Fuel Filter Group)	
2	4023574-9	1	PUMP ASSY., hand primer (Refer to Hand Primer Pump for Components) (Replaces 4368977)	
	2 901219		CAPSCREW	} (Used w/Oil Bath air cleaner)
	2 904203		LOCKWASHER	
	2 901310		NUT	
	1 917518		NIPPLE (Eff. Tractor w/Dry Air Cleaner)	
3	4512584	1	TUBE, primer pump to filter head (Incl. NUTS & SLEEVES) (Used w/Dry Air Cleaner)	
	2 920433		ELBOW	
	2 918802		SLEEVE	



HAND PRIMER PUMP COMPONENTS

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	4023574-9	1	PUMP ASSY., hand primer (Incl. items 1 thru 11) (Replaces 4368977)	
1	-----	1	BODY, pump (Not Serviced Separately) (Order Complete Assembly)	
2	4060695-6	1	GASKET, valve (Replaces 4050636)	
3	4050638	1	SPRING, valve retainer	
4	4048649	1	SEAL, valve nut (inner)	
5	4050645	1	RING, seal, valve nut	
6	4054540	1	NUT, valve	
7	4050637	2	VALVE, primer pump	
8	4053035	1	SEAL, plunger	
9	4053037	1	GUIDE, plunger	
10	4053036	1	PLUNGER, pump	
11	4050646	1	CLAMP ASSY., (Incl. WIRE)	



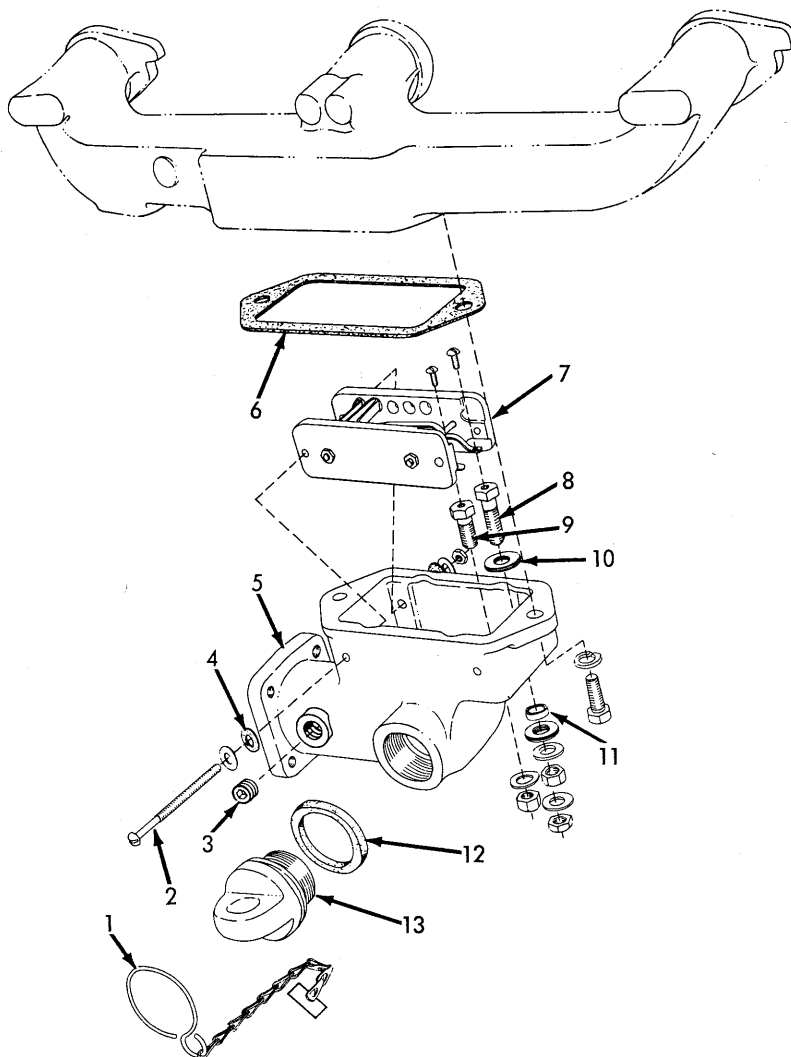
OIL FILTER
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	4512207	1	FILTER, oil, lube (throw-away)	
2	4512341	1	BASE, oil filter	
		1	914452 NUT, lock	
		2	919183 ELBOW	
3	4512832	1	LINE ASSY., oil gallery to filter (Incl. NUTS & SLEEVES)	
		2	918802 SLEEVE	
		1	919183 ELBOW	
		2	918804 NUT	
4	4514158-7	1	ADAPTOR, oil line (Replaces 4512744)	
	4514158	1	ADAPTOR, oil line	
		1	919134 PLUG, pipe	

Continued

OIL FILTER (Cont'd)
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
5	4512995	1	BRACKET, oil filter base	
		2	903626 CAPSCREW	
		2	904205 LOCKWASHER	
6	4512833	1	LINE, outlet, filter to block (Incl. NUTS & SLEEVES)	
		2	918802 SLEEVE	
		1	921143 CONNECTOR	
		2	918804 NUT	



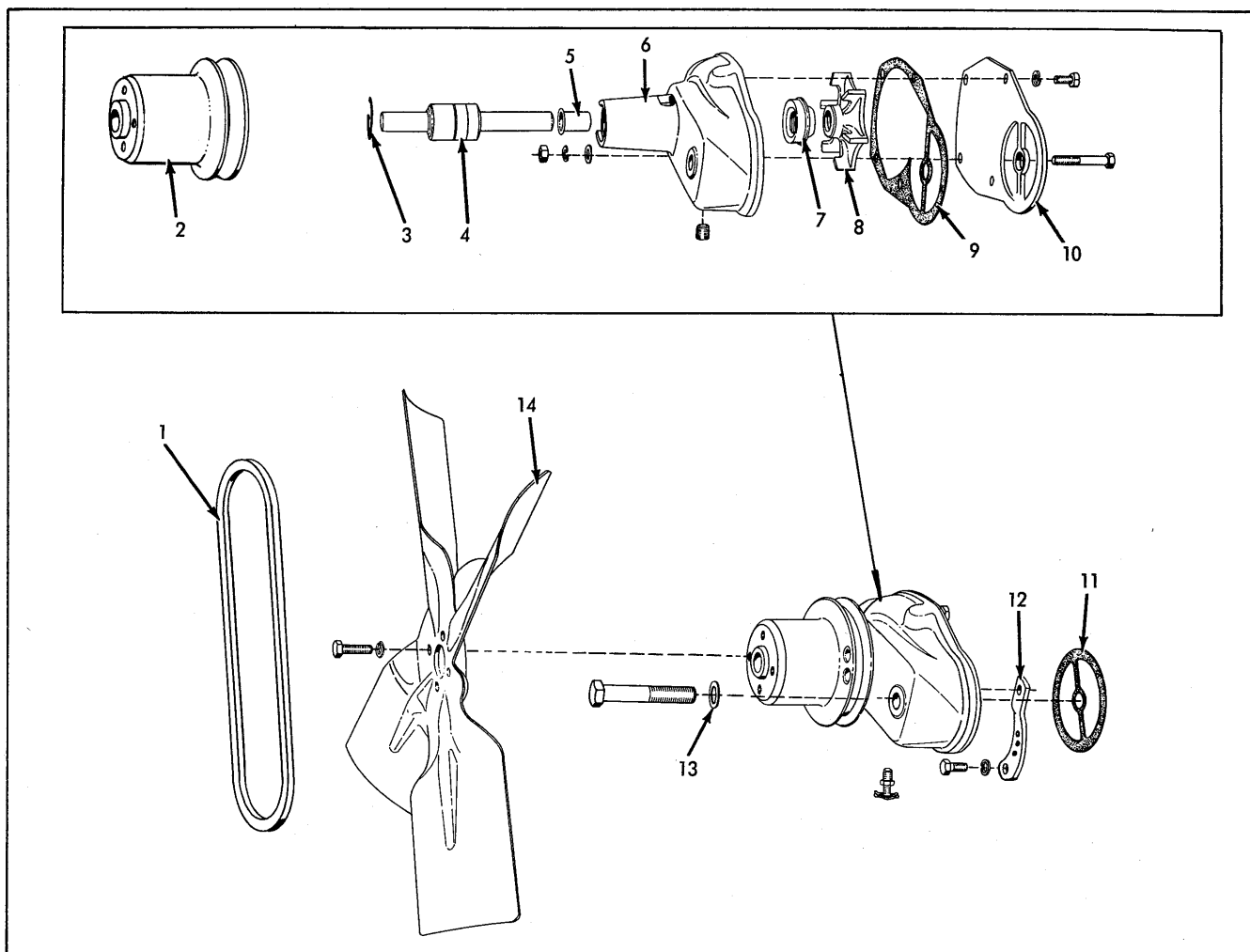
ENGINE AIR HEATER
Diesel
Used Prior to Eng. S/N 119780

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	4504540	1	CHAIN ASSY., pre-heat chamber plug (Incl. RETAINING RING) (Used prior to Eng. S/N 117813)	
2	4305472	2	SCREW, retaining, heating element	
		2	901408 NUT	
		4	910243 WASHER	
3	4045209	1	PLUG, pipe, pre-heat chamber	
4	4507378	4	GASKET, element retaining screw	
5	4513409	1	CHAMBER, pre-heat (Eff. w/Eng. S/N 117813)	
	4506694	1	CHAMBER, pre-heat (Used prior to Eng. S/N 117813)	
		2	903630 CAPSCREW	
		2	904206 LOCKWASHER	

Continued

ENGINE AIR HEATER (Cont'd)
 Diesel
 Used Prior to Eng. S/N 119780

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
6	4513809	1	GASKET, pre-heat chamber (Supersedes 4506508)	
7	4500898	1	ELEMENT ASSY., air heating (Incl. MOUNTING FRAME)	
8	4304171	1	POST, terminal 1 901183 SCREW 2 917263 WASHER 1 917252 NUT 1 917316 NUT	
9	4352164	1	POST, ground terminal 1 901183 SCREW 1 917263 WASHER 1 917316 NUT	
10	4340236	2	WASHER, insulating, terminal posts	
11	4304173	1	BUSHING, terminal insulating	
12	4504152	1	GASKET, pre-heat chamber plug (Used prior to ENG. S/N 117813)	
13	4506783	1	PLUG, pre-heat chamber (Used prior to Eng. S/N 117813)	



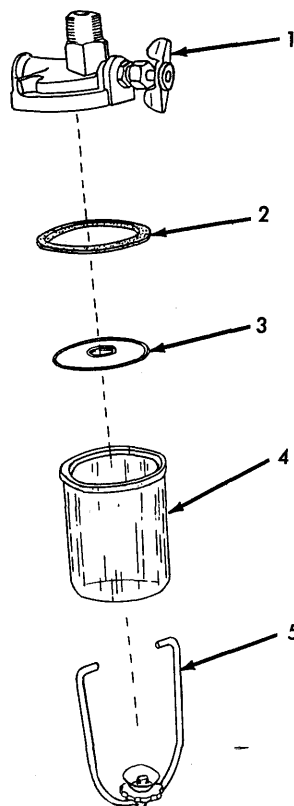
WATER PUMP

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	4512344	1	PUMP ASSY., water (Incl. items 2 thru 11)	
	1 915969		CAPSCREW	
	1 915514		COCK, drain	
	1 904206		LOCKWASHER	
1	233490	1	BELT, fan	
2	4512927	1	PULLEY	
3	4507090	1	WIRE, snap	4512755
4	-----	1	BEARING ASSY., (Incl. item 5) (Not Serviced) (Order Repair Kit)	4512755
5	4507084	1	SLINGER, water	
6	4512345	1	BODY, water pump	
7	4507091	1	SEAL ASSY., water pump	4512755
8	4514798	1	IMPELLER ASSY., (Incl. CERAMIC INSERT) . .	4512755

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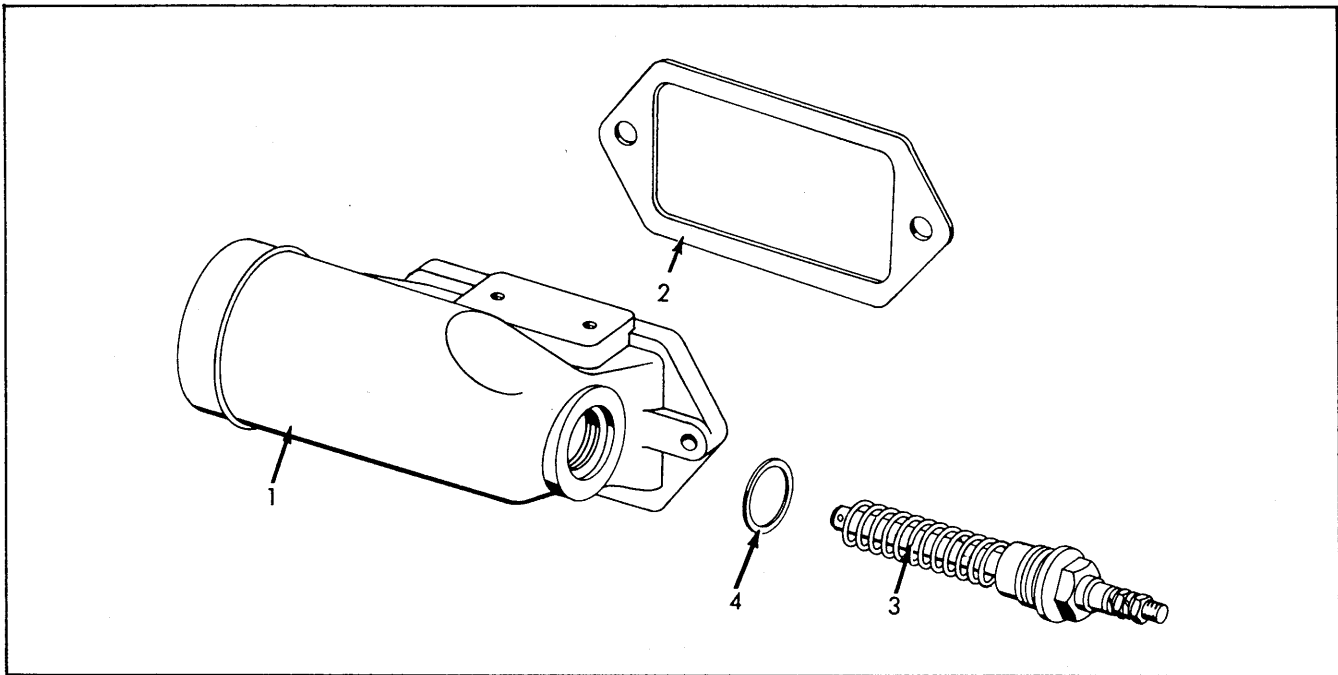
WATER PUMP (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
9	4512347	1	GASKET, plate	4512755
10	4512346	1	PLATE, water pump	
		3	915809 CAPSCREW	
		2	904205 LOCKWASHER	
		1	921508 CAPSCREW (nylok)	
		1	917330 WASHER, copper	
11	4506691	1	GASKET, pump to head	4514581-0
				4514021
12	4512351	1	LINK, water pump	
		1	916269 CAPSCREW	
		1	904206 LOCKWASHER	
13	4251369	1	WASHER, sealing	
	236896	1	BLADE ASSY., fan (Pusher)	
14	232154	1	BLADE ASSY., fan (Std.)	
		4	903626 CAPSCREW	
		4	904205 LOCKWASHER	



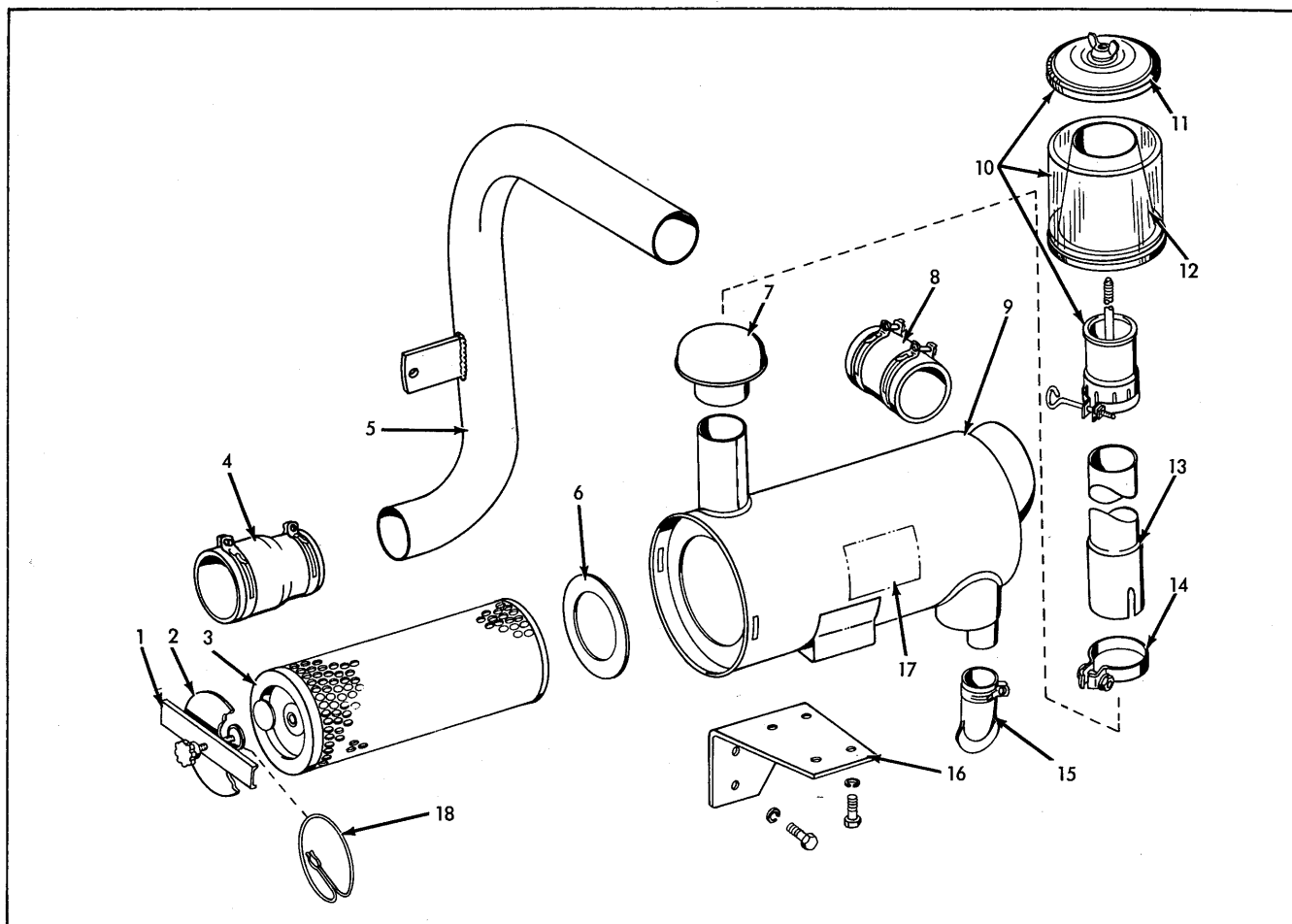
FUEL TANK FILTER
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	237946	1	FILTER ASSY., fuel (Incl. all Items in this group) (Supersedes 200257)	
1	223255	1	VALVE ASSY., filter	
2	208137	1	GASKET, bowl	
3	208325	1	SCREEN (Imperial)	
4	217264	1	BOWL (Metal)	
	237947	1	BOWL (Glass) (Supersedes 208136)	
5	223248	1	BAIL ASSY. (Imperial) (Incl. STUD, NUT & CUP)	



AIR HEATER
Eff. w/ Eng. S/N 119780

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	4513365	1	HOUSING, air heater (Used prior to Eng. S/N 120048)	
	4513924	1	HOUSING, air heater (Eff. w/ Eng. S/N 120048)	
	2	903630	CAPSCREW	
	2	904206	LOCKWASHER	
2	4513809	1	GASKET, air heater (Supersedes 4506508)	4511664
3	4516760-8	1	ELEMENT, air heater (Incl. item 4) (Replaces 4514135)	
4	4512343	1	GASKET, element	



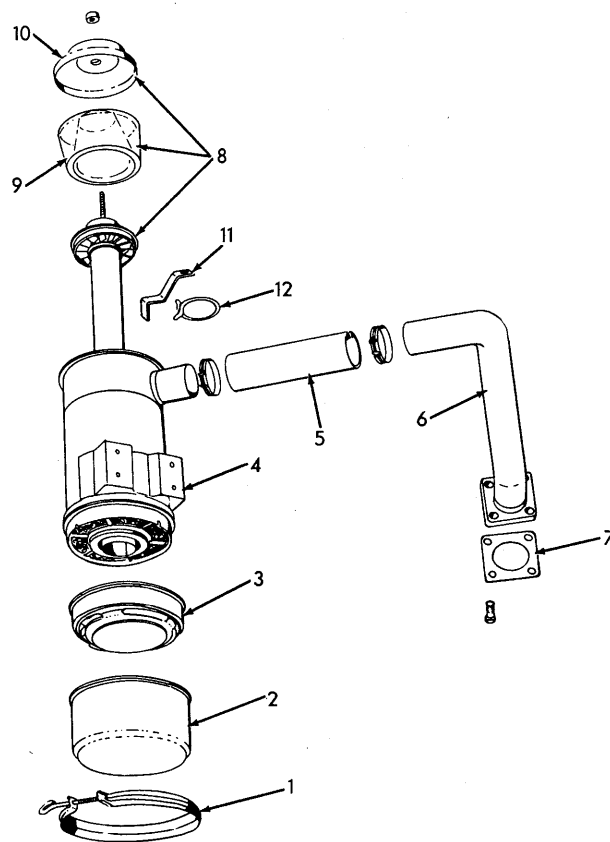
**AIR CLEANER-DRY TYPE
DIESEL**

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	235862	1	BAR ASSY., retainer	
2	237665	1	SEAL, end	
3	235863	1	ELEMENT ASSY., filter (Incl. item 6)	
4	236252	1	HOSE (to manifold) 2 921913 CLAMP	
5	236251	1	PIPE ASSY., to manifold hose (Used prior to Tr. S/N 6438)	
	240446	1	PIPE ASSY., to manifold hose (Eff. w/Tr. S/N 6438 & up)	
6	237621	1	GASKET, element	
7	226926	1	CAP, air cleaner	
8	236250	1	HOSE, air cleaner, upper 2 921913 CLAMP, hose	
9	240079	1	CLEANER ASSY., air (Incl. items 1, 2, 3, & 6)	
10	233181	1	PRE-CLEANER ASSY., air (Incl. items 11 & 12 and Base) (for muckland tractor)	
11	083520	1	CAP ASSY., pre-cleaner	

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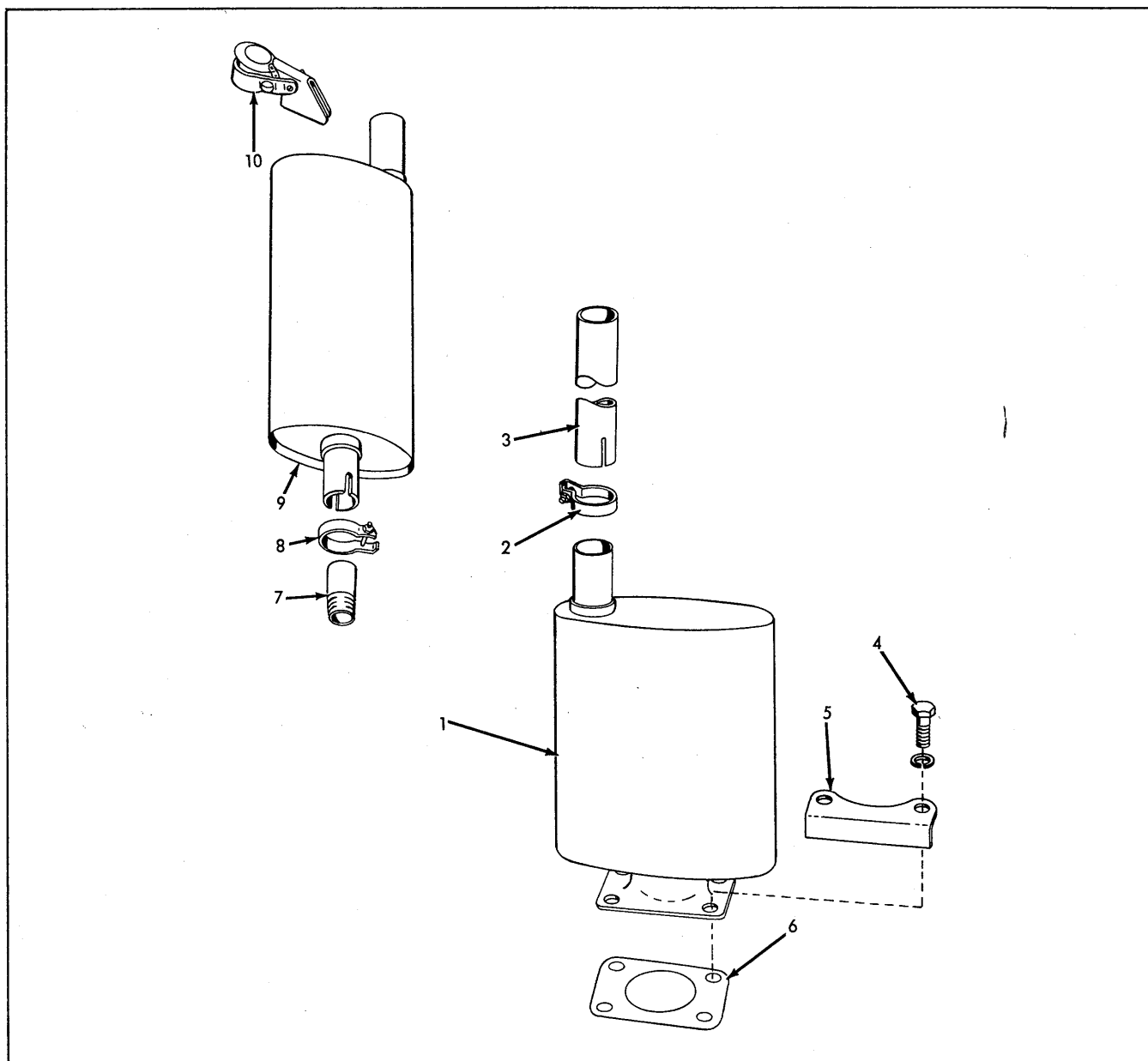
AIR CLEANER-DRY TYPE (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
12	083521	1	BODY ASSY., pre-cleaner	
13	237857	1	TUBE, extension air cleaner (Muckland Tractor)	
14	236923	1	CLAMP, tube (Muckland Tractor)	
15	235884	1	UNLOADER, dust	
		1	921911 CLAMP, hose	
16	236253	1	BRACKET, air cleaner	
		2	903775 CAPSCREW (to block)	
		6	904206 LOCKWASHER	
		4	912742 CAPSCREW (to air cleaner)	
17	235896	1	TRANSFER, instruction	
18	240003	1	RETAINER, end seal	



AIR CLEANER DIESEL
Oil Bath Type

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	233666	1	CLAMP ASSY., oil cup	
2	233664	1	CUP, oil, outer	
3	233665	1	CUP, oil inner	
4	233492	1	CLEANER ASSY., air (Incls. items 1, 2 & 3)	
		4	912742 CAPSCREW	
		4	904206 LOCKWASHER	
5	234634	1	HOSE, air cleaner	
		2	921913 CLAMP, hose	
6	234083	1	PIPE ASSY., air cleaner	
		4	903630 CAPSCREW	
		4	904206 LOCKWASHER	
7	226925	1	GASKET, flange	
8	233616	1	PRE-CLEANER ASSY., air (Incls. SLEEVE & items 9 & 10)	
9	233663	1	BODY, pre-cleaner	
10	233662	1	COVER ASSY., pre-cleaner (Incls. NUT)	
11	235892	1	BRACKET, air cleaner support	
12	235038	1	CLAMP, support bracket to pipe	



MUFFLER
Diesel

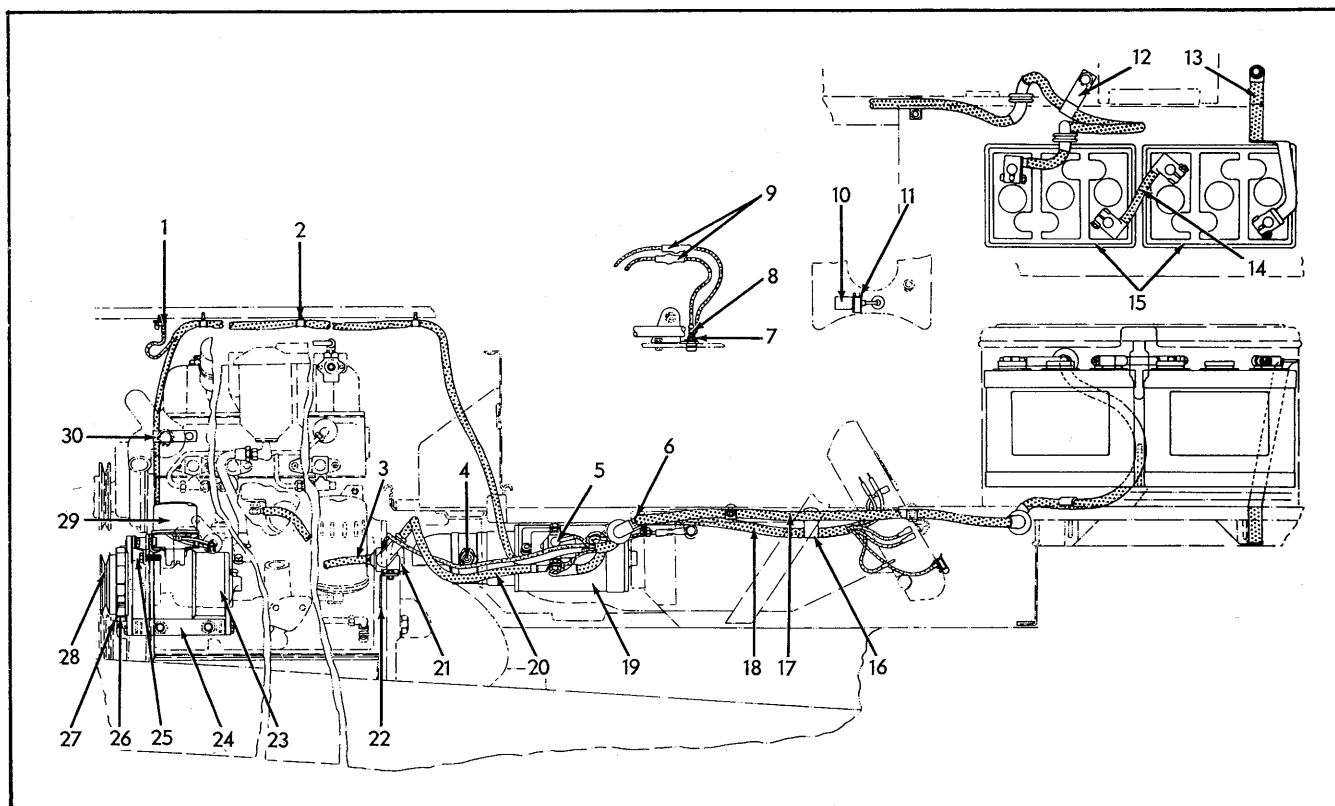
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	237409	1	MUFFLER, exhaust (Supersedes 234128) (Used prior to Tr. S/N 7431)	
2	237410	1	CLAMP ASSY., muffler	
3	237408	1	TUBE, muffler extension	
4	229922	4	CAPSCREW, muffler 4 904207 LOCKWASHER	} (Used prior to Tr. S/N 7431)
5	237411	1	REINFORCEMENT, mounting flange	
6	229678	1	GASKET, muffler, flange	

Continued

MUFFLER (Cont'd)
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
7	4513471	1	NIPPLE, pipe	
8	0249899-8	1	CLAMP, muffler (Replaces 240993)	
9	241767	1	MUFFLER, exhaust	
10	0236922-1	1	CAP, weather (Replaces 244341)	

} (Eff. w/Tr. S/N 7431 & Up)



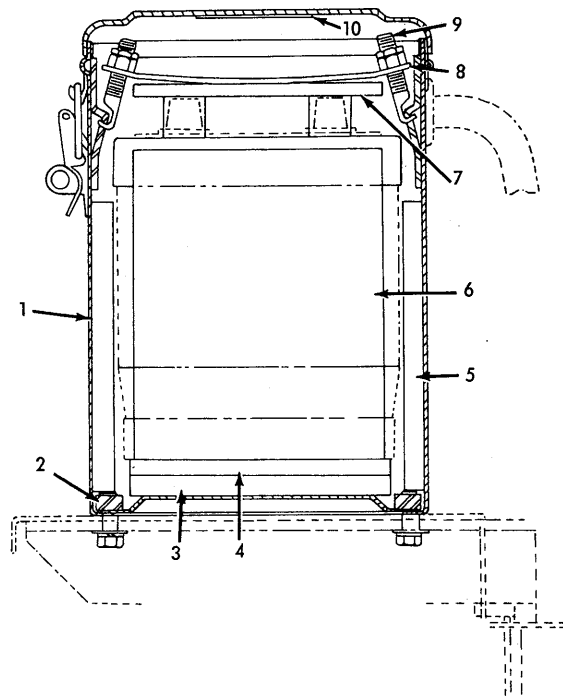
ELECTRICAL SYSTEM
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	228360	1	TERMINAL ASSY., connector 4-way	
	2 914629		SCREW, s-tap	
2	229576	3	CLIP, wiring harness to hood channel base	
3	235887	1	CABLE, magnetic switch to manifold heater (Used w/Dry Type Air Cleaner)	
	233560	1	CABLE, magnetic switch to manifold heater (Used w/Oil Bath Air Cleaner)	
4	207872	1	SETSCREW, starting motor	
	1 910511		NUT, jam	
5	234914	1	COVER, terminal	
6	218551	3	CLIP, battery cable	
	1 920561		BOLT	
	2 905661		CAPSCREW	
	3 904205		LOCKWASHER	
	3 910323		NUT, hex.	
7	230246	1	HOLDER ASSY. fuse (Incl. CAP)	
	1 910210		LOCKWASHER	
	231486	1	CAP, fuse holder	
8	208960	1	FUSE, 20 amp.	
9	228402	2	CONNECTOR, line	

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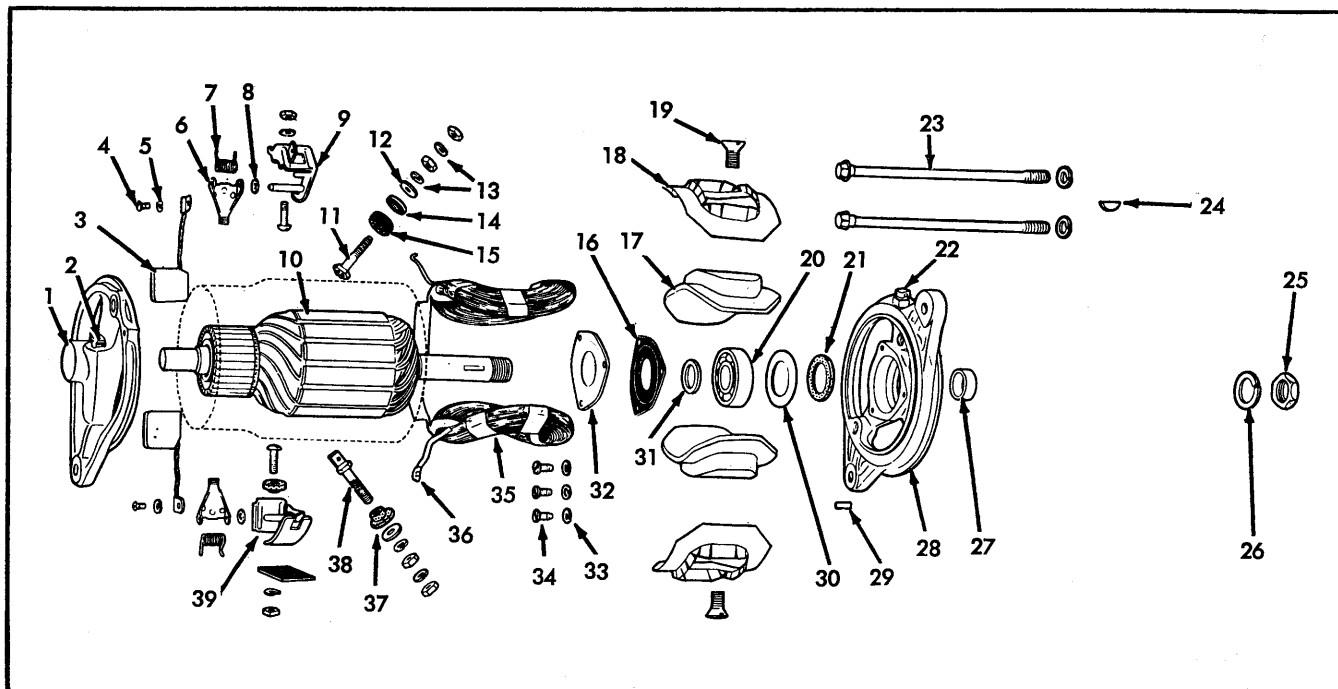
ELECTRICAL SYSTEM (Cont'd)
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
10	234319	1	CONNECTOR "Y", male line 1 913233 GROMMET	
11	229576	1	CLIP, rear connection	
12	236457	1	CLIP, battery (Supersedes 234397)	
13	234396	1	STRAP, battery ground 1 903630 CAPSCREW 1 911115 WASHER	
14	234395	1	CABLE, battery jumper	
15	243471	2	BATTERY, 6 volt	
16	232595	1	CLAMP, wiring harness to fuel tank support	
17	234393	1	CABLE, battery to starter solenoid 2 921230 GROMMET	
18	234399	1	HARNESS, wiring front	
19	-----	1	MOTOR ASSY., starting (See Starting Motor Group for Component Parts)	
20	233561	1	CABLE, starter solenoid to heater switch	
21	237134	1	SWITCH, magnetic manifold heater (Supersedes 226912)	
22	233559	1	BRACKET, heater switch 1 905655 CAPSCREW 1 904204 LOCKWASHER 1 910880 NUT	
23	-----	1	GENERATOR ASSY., (See Generator Group for Component Parts)	
24	23 7809	1	BRACKET, generator (f/ 54" Tread Muckland Tractor & Tr. S/N 6192 & up)	
	234410	1	BRACKET, generator (Used prior to Tr. S/N 6192)	
		2	903637 CAPSCREW	
		2	904208 LOCKWASHER	
		2	918875 CAPSCREW	
		2	917356 LOCKWASHER	
		2	917372 NUT, hex	
25	229889	1	BRACE, generator adjusting 1 903631 CAPSCREW 1 904206 LOCKWASHER 1 917397 CAPSCREW 1 917356 LOCKWASHER 1 917642 WASHER, plain	
26	227467	1	FAN, generator	
27	227468	1	BAFFLE, generator fan	
28	234392	1	PULLEY, generator	
29	0239679-4	1	REGULATOR, voltage (Replaces 228553)	
30	234775	1	CLAMP, wiring harness	



BATTERY BOX
Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234063	1	BOX ASSY., battery	
2	234068	2	BLOCK, tapping	
		4	910211 CAPSCREW	
		4	914900 WASHER, plain	
		4	904206 LOCKWASHER	
3	234055	1	SPACER, bottom	
4	234056	1	PAD	
5	234057	2	INSULATOR, side	
6	234058	1	INSULATOR, center	
7	234059	1	INSULATOR ASSY., top	
8	234062	3	SPRING	
9	228771	6	HOOK, spring	
		6	916602 NUT, hex	
		6	914393 NUT, pal	
10	-----	1	TRANSFER, instruction (Battery Installation). . . 234310)	
11	234067	2	BAR, reinforcement (Not Illustrated)	
		4	922249 BOLT	
		4	904206 LOCKWASHER	
		4	910324 NUT	



GENERATOR

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	234391	1	GENERATOR, (Delco-Remy No. 100410) (Diesel)	
-	0246628-7	1	GENERATOR, (Delco-Remy No. 100305) (Gasoline) (Replaces 229479)	
-	231326	1	FRAME (Commutator End) (Incl. Item 2, WICK, PIN, WASHER & CUP)	
-	0237005-4	1	WICK, oil (Replaces 231236)	
1	231239	1	PIN, dowel	
	231324	1	WASHER, felt	
	231325	1	CUP, felt washer	
2	231280	1	OILER (Commutator End)	
3	231313	2	BRUSH, generator	
4	4132688	2	SCREW, brush wire	
5	4042816	2	LOCKWASHER, brush wire screw	
6	231276	2	ARM, brush	
7	231303	2	SPRING, brush	
8	231287	2	WASHER, spacing, brush arm	
9	231311	1	HOLDER ASSY., ground brush (Incl. LOCKWASHER, NUT & SCREW)	
	1		917376 NUT	
	1		917389 LOCKWASHER	
	1		917450 SCREW, mach.	

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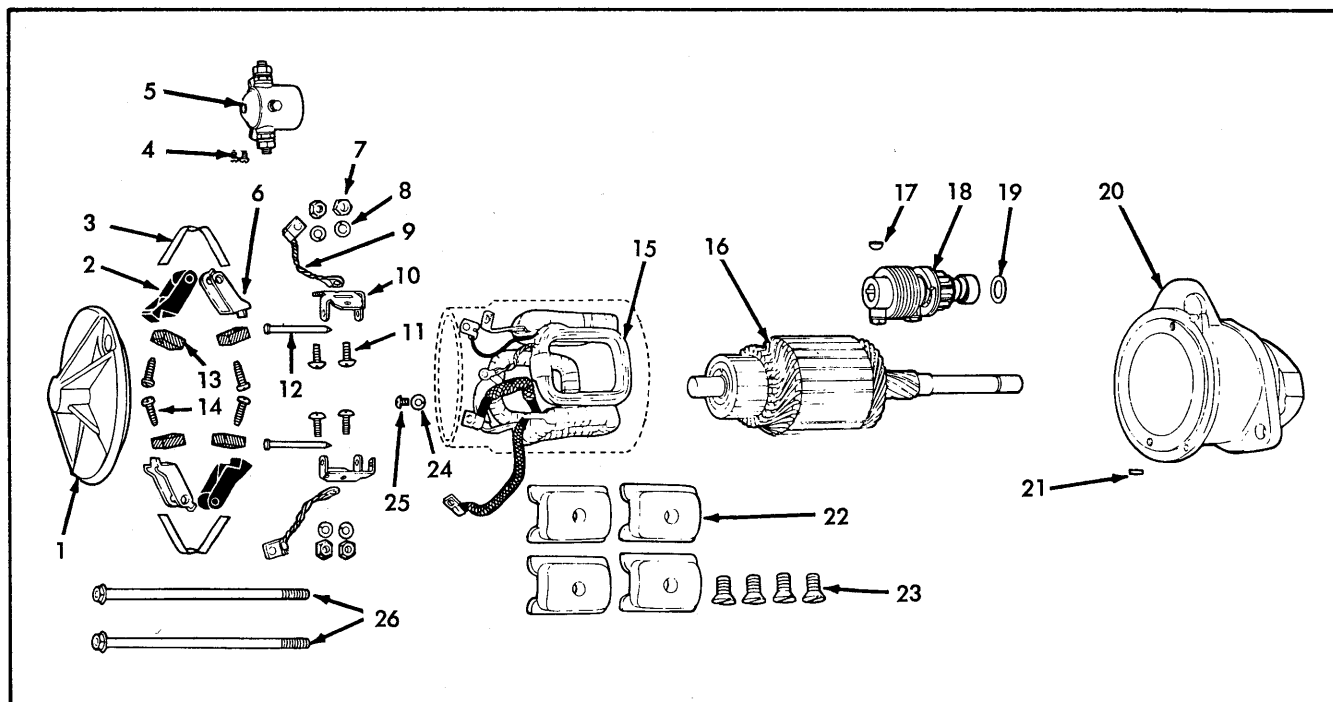
GENERATOR (Cont'd.)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
10	4044350	1	ARMATURE, generator	
11	231309	1	STUD (Terminal "F")	
		2	917376 NUT	
12	231283	2	WASHER, plain, terminal stud	
13	231289	2	LOCKWASHER, terminal stud	
14	231271	1	WASHER, insulation (Terminal "F")	
15	231285	1	BUSHING, insulation (Terminal "F")	
16	4042832-8	1	GASKET, bearing retainer (Replaces 231298)	
17	231301	2	SHOE, pole	
18	231300	2	INSULATOR, field coil	
19	231265	2	SCREW, pole shoe	
20	229508	1	BEARING, ball (Drive End)	
21	231242	1	WASHER, felt	
22	231281	1	OILER (Drive End)	
23	231252	2	BOLT, thru	
		1	919311 LOCKWASHER	
24	905121	1	KEY, pulley & fan (Woodruff)	
25	231237	1	NUT, shaft	
26	231286	1	LOCKWASHER, shaft nut	
27	231270	1	COLLAR, spacing (Drive End)	
28	{ 231295	1	FRAME (Drive End) (Incl. Item 22)	
	{ 231261	1	WICK, oil	
29	231240	1	PIN, dowel (Drive End)	
30	231256	1	PLATE, felt washer	
31	231241	1	WASHER, spacing, inside (Drive End)	
32	231296	1	PLATE, bearing retainer	
33	231282	3	LOCKWASHER, bearing plate screw	
34	231288	3	SCREW, bearing, retainer plate	
35	231314	1	COIL ASSY., field	
36	231234	1	CLIP, terminal to brush	
37	231307	1	BUSHING, insulation (Terminal "A")	
38	231308	1	STUD, (Terminal "A")	
		2	917376 NUT	

Continued

GENERATOR (Cont'd.)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
39	231312	1	HOLDER, insulated brush (Incl. NUT, LOCKWASHER, & SCREW)	
		1	917376 NUT	
		1	917389 LOCKWASHER	
		1	917450 SCREW, mach.	



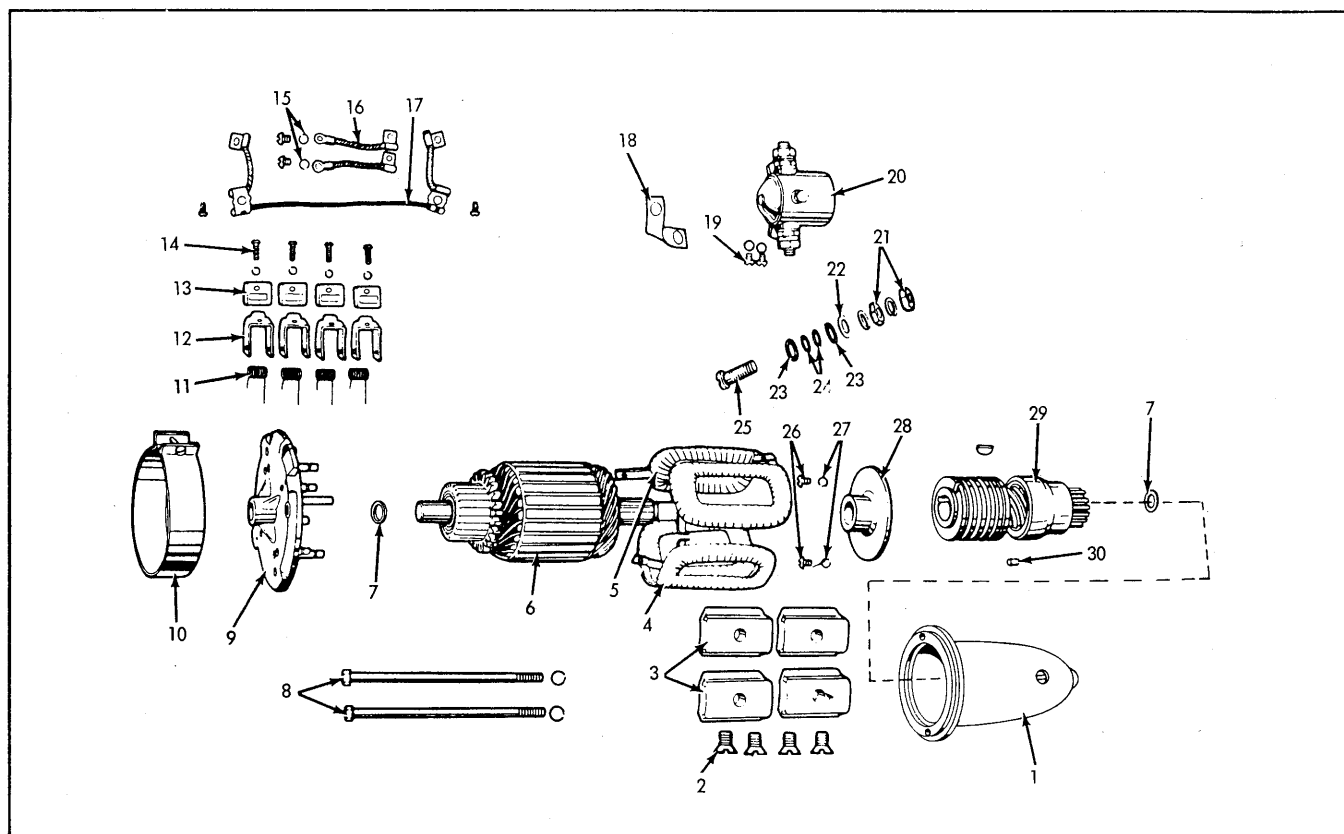
STARTING MOTOR
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	232413	1	MOTOR ASSY., starting (Incl. item 5)(Delco-Remy No. 1107758)	
1	231330	1	FRAME (CommutatorEnd)(Incl. BUSHING)	
	4044355	1	BUSHING, center bearing	
	231262	1	WASHER, spacing	
2	233293	2	HOLDER, insulated brush	
3	231320	2	SPRING, brush	
4	231304	2	SCREW, switch attaching	
5	237136	1	SWITCH ASSY., starting motor (Solenoid) (Supersedes 233296) (Replaces 237135)	
	233297	1	CONNECTOR, switch (Not Illustrated)	
6	231318	2	HOLDER, ground brush	
7	916621	4	NUT, support screw	
8	917365	4	LOCKWASHER, support screw	
9	231316	2	WIRE, brush ground	
10	231327	2	SUPPORT ASSY., brush holder (Incl. items 7, 8, 9, 11 & 12)	
11	916080	4	SCREW, brush holder support	
12	231315	2	PIN, support, brush holder	

Continued

STARTING MOTOR (Cont'd)
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
13	231291	4	BRUSH, starting motor	
14	0917442-6	4	SCREW, brush attaching (Replaces 231322)	
15	{ 233291	1	COIL ASSY., field	
	{ 233292	1	COIL, field, short	
16	231332	1	ARMATURE, starting motor	
17	917408	1	KEY, drive (woodruff)	
18	233295	1	DRIVE ASSY.	
19	231268	1	WASHER, thrust	
20	{ 233294	1	HOUSING, drive	
	{ 231245	1	BUSHING	
	{ 231258	1	PLATE, center bearing	
	{ 231282	2	LOCKWASHER, center bearing screw	
	{ 900556	2	SCREW, center bearing plate	
21	231240	1	PIN, dowel (Drive End)	
22	{ 231334	4	SHOE, pole	
	{ 231317	3	SHOE, pole (One open end)	
23	231265	4	SCREW, pole shoe	
24	917365	1	LOCKWASHER, field wire screw	
25	906820	1	SCREW, field wire attaching	
26	231321	2	BOLT, thru	
--	{ 231999	1	STUD, terminal (Not Illustrated)	
	{ 231272	2	WASHER, insulation (Terminal Stud)	
	{ 231290	2	WASHER, insulation, 9/16" O. D. (Terminal Stud)	
	{ 231355	1	WASHER, insulation (Terminal)	
	{ 900817	2	WASHER, plain, 3/8" (Terminal Stud)	
	{ 916950	2	NUT, 3/8" (Terminal Stud)	
	{ 916965	2	LOCKWASHER, 3/8" (Terminal Stud)	
--	4051272	4	INSULATION, field coil (Not Illustrated)	
--	4051671	1	GROMMET (Not Illustrated)	
--	4047337	1	SCREW, switch	



STARTING MOTOR-DIESEL

*233562 Assy. (1st Type)

**236381 Assy. (2nd Type)

ITEM	PART NUMBER	QTY.		DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**		
-	233562	1	-	MOTOR ASSY., starting Delco No. 1107502 (Incl. all items listed in this column)	
	3 905819			CAPSCREW	
	3 904209			LOCKWASHER	
1	236381	-	1	MOTOR ASSY., starting, Delco No. 1107548 (Incl. all items listed in this column)	
	235834	1	-	HOUSING ASSY., drive (Incl. BUSHING, OILER & WICK)	
	236388	-	1	HOUSING ASSY., drive (Incl. BUSHING, OILER, WICK & PIPE PLUG)	
	4047348	1	1	BUSHING, drive housing	
	0241335-9	1	1	WICK, oil (Replaces 231294)	
	4047365	-	1	PLUG, pipe	
2	231284	4	4	SCREW, pole shoe	
3	235837	4	4	SHOE, pole	
4	235828	1	-	COIL, field, lower	
	236385	-	1	COIL ASSY., field	
5	235827	1	-	COIL, field, upper	

Continued

STARTING MOTOR-DIESEL (Cont'd)
 *233562 Assy (1st Type)
 **236381 Assy (2nd Type)

ITEM	PART NUMBER	QTY. * **		DESCRIPTION	ASSEMBLY OR PACKAGE NO.
6	4044544	1	1	ARMATURE	
7	231262	2	2	WASHER, space, commutator & drive end	
8	235836	2	-	BOLT, thru 2 916964 LOCKWASHER	
	236389	-	2	BOLT, thru	
9	4052198	1	-	FRAME ASSY., commutator end (Incl. BUSHING, WICK, BRUSH PINS, DOWEL PIN & PLUG;	
	236386	-	1	FRAME ASSY., commutator end (Incl. BUSHING, WICK & PLUGS)	
	235826	1	1	WICK, oil	
	231253	2	-	PIN, brush holder hinge	
	231254	2	-	PIN, brush holder, stop	
	231249	2	-	PIN, brush holder hinge (w/installation)	
	231248	2	-	PIN, brush holder, stop (w/Installation)	
	231239	1	-	PIN, dowel	
	231246	1	1	PLUG, expansion	
	4047345	1	1	BUSHING	
10	4047365	-	1	PLUG, pipe	
	4044509	1	-	BAND, cover (Incl. SCREW & NUT)	
11	1121941	1	-	SCREW 1 914172 NUT	
	231250	4	-	SPRING, brush	
12	231320	-	4	SPRING, brush	
	231242	4	-	HOLDER, brush	
13	233293	-	2	HOLDER, brush (insulated)	
	231318	-	2	HOLDER, brush, ground	
14	4044507	4	-	BRUSH	
	236387	-	4	BRUSH	
15	903752	4	-	SCREW, brush attaching	
	236338	-	4	SCREW, brush attaching	
15	231392	2	-	LOCKWASHER, brush screw	

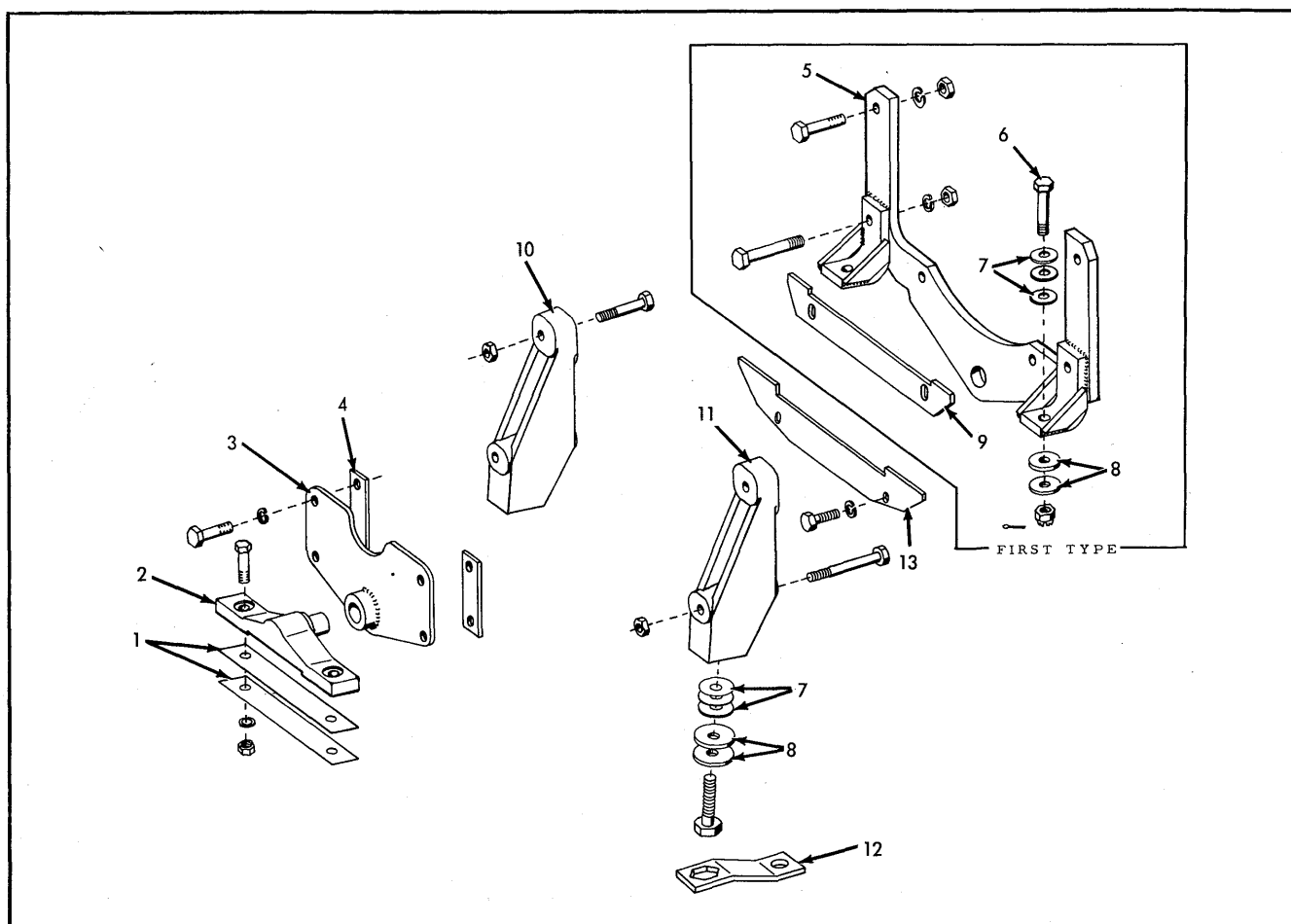
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STARTING MOTOR-DIESEL (Cont'd)

*233562 Assy. (1st Type)

**236381 Assy. (2nd Type)

ITEM	PART NUMBER	QTY.		DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**		
16	231251	2	-	WIRE, ground 2 914684 SCREW	
	231316	-	2	WIRE, ground 2 900551 SCREW	
17	231257	1	-	WIRE, brush connector 2 903753 SCREW, mach	
18	231275	1	-	CONNECTOR, switch	
	236390	-	1	CONNECTOR, switch	
19	231304	2	2	SCREW, switch attaching	
20	235835	1	-	SWITCH, starting	
	237136	-	1	SWITCH, starting	
21	916950	2	2	NUT, terminal stud 1 917356 LOCKWASHER	
22	235830	1	-	WASHER, terminal stud	
	4053066	-	1	WASHER, terminal stud	
23	231272	2	-	WASHER, terminal stud (insulated)	
	236384	-	2	WASHER, terminal stud (insulated)	
24	231290	1	-	WASHER, terminal stud (insulated)	
	236383	-	1	WASHER, terminal stud (insulated)	
25	235829	1	-	STUD, terminal	
	236382	-	1	STUD, terminal	
26	231288	2	2	SCREW, center bearing plate	
27	231282	2	2	LOCKWASHER, plate screw	
28	4044390-5	1	1	PLATE, center bearing (Incl. BUSHING) (Replaces 235831)	
	4047970-1	1	1	BUSHING (Replaces 235832)	
29	235833	1	1	DRIVE ASSY., motor 1 917408 KEY, woodruff	
30	231240	1	1	PIN, dowel	
31	231327	-	1	SUPPORT ASSY., brush holder (Not Illustrated) (Incl. items 16, 32 and Hardware)	
32	231315	-	2	PIN, support, brush	



ENGINE MOUNTS (Gasoline & Diesel)

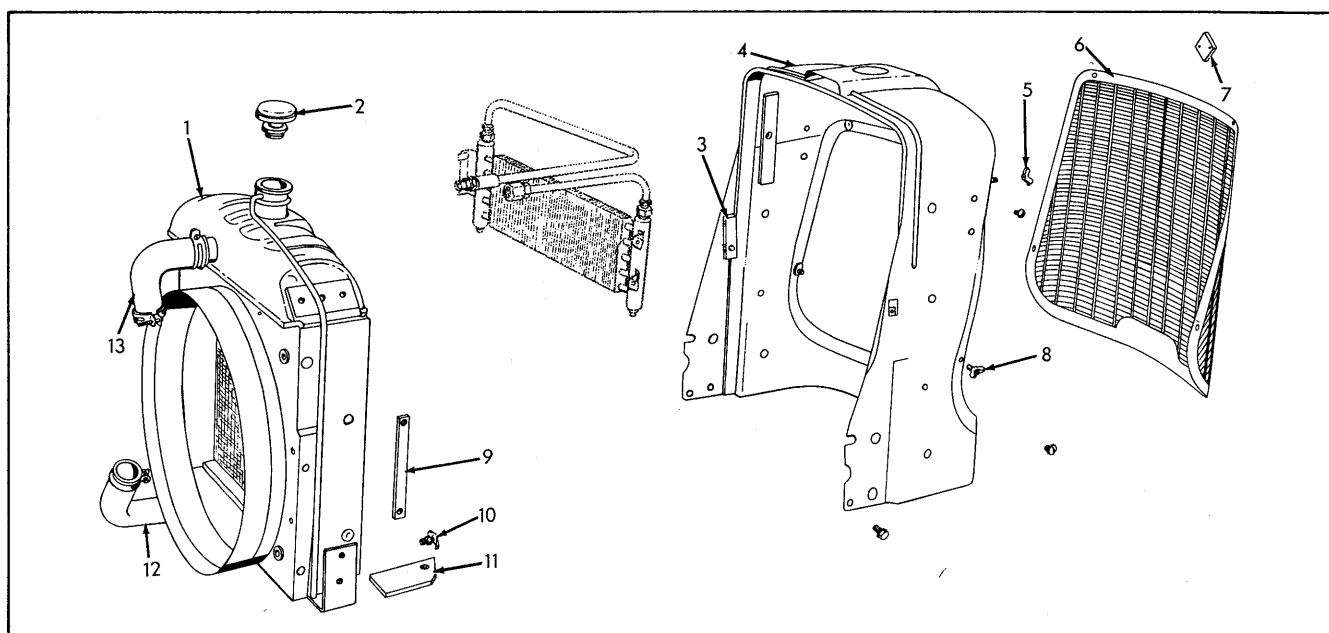
NOTE: For Diesel Front Engine Mounts See GEAR COVER Group in Diesel Section.

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234291	*	SHIMS (*Use as required)	
2	234295	1	ANCHOR, pivot (Gasoline)	
		2	916420 CAPSCREW	
		2	904208 LOCKWASHER	
		2	919058 NUT	
3	234297	1	PLATE, front (Gasoline)	
		4	919234 CAPSCREW	
4	230126	2	SPACER (Gasoline)	
5	234293	1	PLATE ASSY., rear	
		2	921177 CAPSCREW	
		2	921178 CAPSCREW	
		4	904209 LOCKWASHER	
		4	910124 NUT	
6	234312	2	CAPSCREW, special	
		2	904324 NUT	
		2	910320 PIN, cotter	

Continued

ENGINE MOUNTS (Cont'd.)
(Gasoline & Diesel)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
7	234282	*	SHIM, .1196" (* Use as required)	
	234284	*	SHIM, .062" (* Use as required)	
	234283	*	SHIM, .0897" (* Use as required)	
8	225166	4	WASHER, spring	
	234311	1	COVER, flywheel (Gasoline) (first type)	
	234290	1	COVER, flywheel (Diesel) (first type)	
		2	920583 CAPSCREW	
		2	904208 LOCKWASHER	
10	237362	1	BRACKET, bumper stop, R.H.	
		1	921178 CAPSCREW (top)	
		1	922319 CAPSCREW (center)	
		1	921171 CAPSCREW (bottom)	
		2	910124 NUT	
11	237363	1	BRACKET, bumper stop, L.H.	
		1	921178 CAPSCREW (top)	
		1	922319 CAPSCREW (center)	
		1	921171 CAPSCREW (bottom)	
		2	910124 NUT	
12	237364	1	PLATE, lock (Diesel only)	
13	237367	1	COVER, flywheel (Diesel tr.)	
	237368	1	COVER, flywheel (Gas tr.)	
		2	903637 CAPSCREW	
		2	904208 LOCKWASHER	



RADIATOR SHELL & GRILLE

NOTE: For Diesel Hose Connections See Water Inlet & Outlet Group Diesel Section

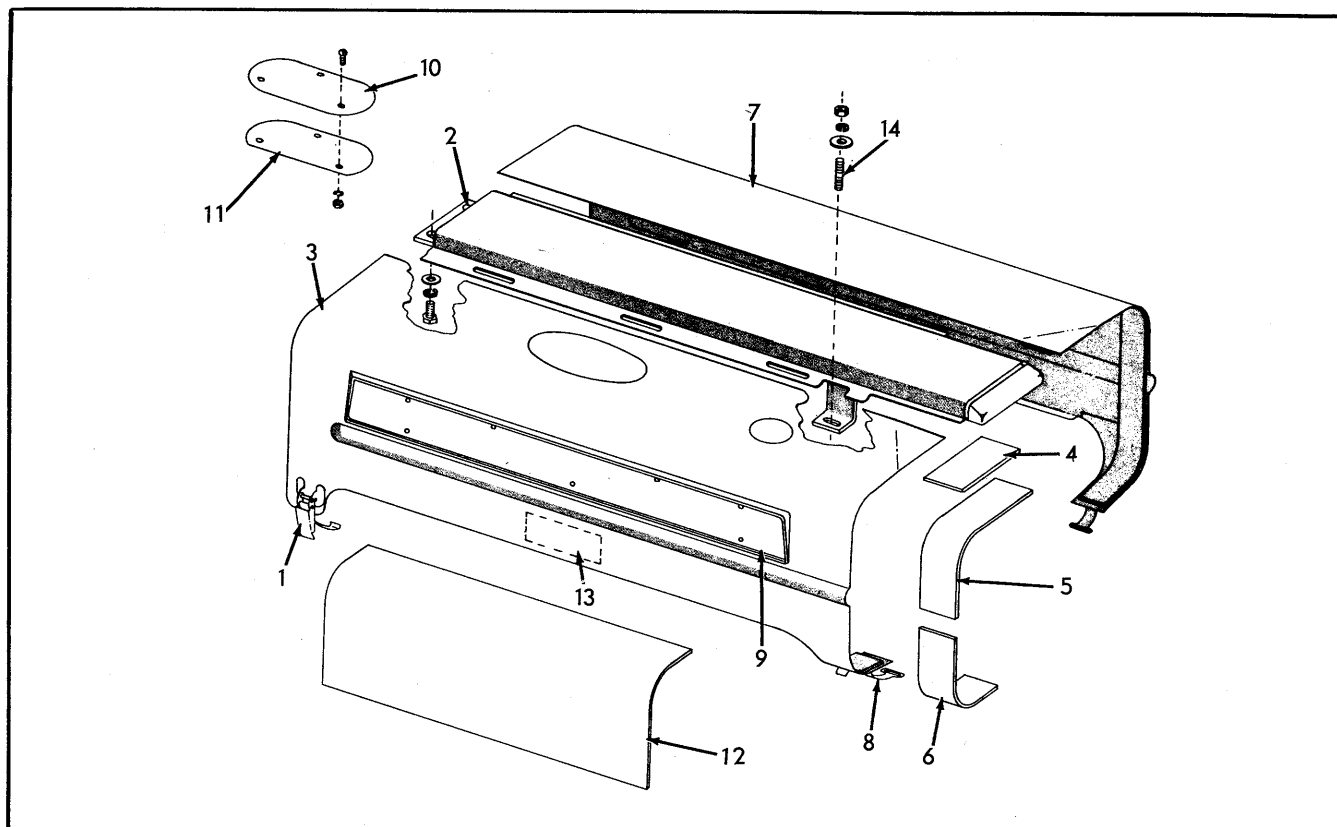
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	239070	1	RADIATOR ASSY., diesel (std.) (Incl. item 2) (Used prior to Tr. S/N 8718)	
	247313	1	RADIATOR ASSY., diesel (std.) (Incl. item 2) (Eff. w/Tr. S/N 8718 & up)	
	0247314-8	1	RADIATOR ASSY., diesel (Heavy duty-Muckland Tractor) (Replaces 238906)	
	247312	1	RADIATOR ASSY., gas (Incl. item 2) (Eff. w/Tr. S/N 8718 & up)	
	234132	1	RADIATOR ASSY., gas (Incl. item 2) Used prior to Tr. S/N 8718 & up)	
		2	913717 CAPSCREW	
		2	904208 LOCKWASHER	
		4	916406 CAPSCREW	
		4	904209 LOCKWASHER	
		4	919113 SCREW	
2	0254891-5	1	CAP, pressure (Replaces 228817)	
3	233638	2	BRACKET, fastener	
		2	905660 CAPSCREW	
		2	904205 LOCKWASHER	
		2	910335 WASHER	
4	233433	1	SHELL ASSY., radiator (Incl. SUPPORTS)	Not used after Tr. S/N 8718 - See Heavy duty grille group f/std. grille f/Tr. eff. w/ S/N 8718
5	234136	2	NUT, wing	
6	233853	1	GRILLE, radiator	
7	-----	1	EMBLEM, A-C (Discontinued)	
		2	918698 SCREW	

Continued

RADIATOR SHELL & GRILLE (Cont'd)

NOTE: For Diesel Hose Connections See Water Inlet & Outlet Group Diesel Section

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
8	234147	2	SCREW, wing	
9	239071	2	SPACER, side	
10	{ 229210	1	COCK, drain	
	{ 229634	1	HOSE, drain cock	
11	239072	2	SPACER, mounting pad (Diesel only)	
12	234134	1	HOSE, radiator bottom (Gasoline only)	
		2	921912 CLAMP	
13	234133	1	HOSE, radiator, top (Gasoline only)	
		2	921912 CLAMP	



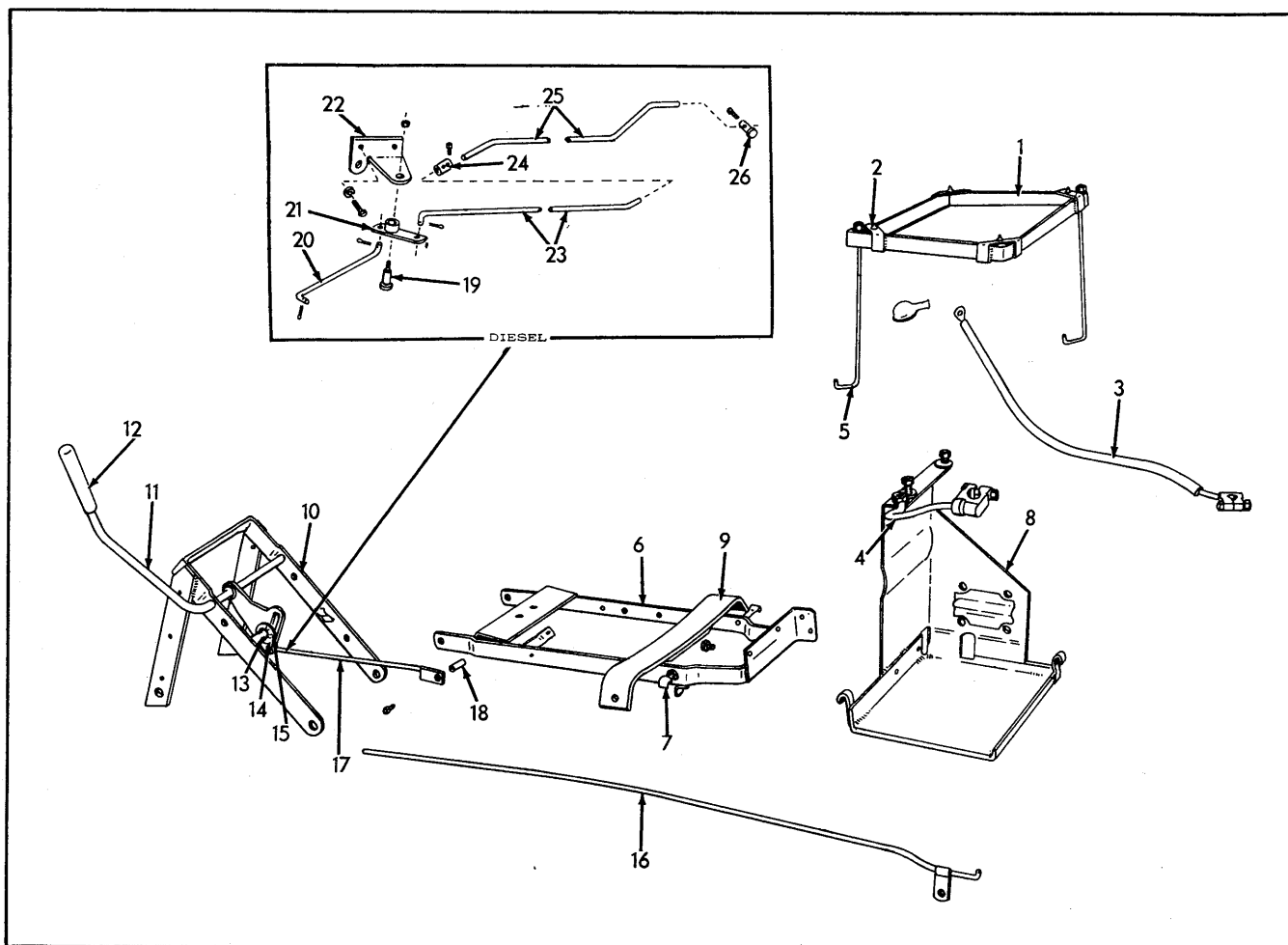
HOOD
(Gasoline & Diesel)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	228799	2	FASTENER, hood front	
2	233867	1	CHANNEL ASSY. hood	
		2	903628 CAPSCREW	
		2	904206 LOCKWASHER	
		4	911115 WASHER, plain	
3	{ 233870	1	HOOD ASSY., L.H. (Gasoline)	
	{ 236262	1	HOOD ASSY., L.H. (Diesel) (w/Dry Air Cleaner)	
	{ 233875	1	HOOD ASSY., L.H. (Diesel) (w/Oil Bath Air Cleaner)	
4	235593	1	STRIP, packing channel (Supersedes 229690)	
5	233444	2	STRIP, packing top	
6	233445	2	STRIP, packing, bottom	
7	{ 233872	1	HOOD ASSY., R.H. (Gasoline)	
	{ 233877	1	HOOD ASSY., R.H. (Diesel)	
8	229154	2	FASTENER, hood, rear	
	0924422-9	2	PLATE, name "Allis-Chalmers" (Replaces 233854)	
9	{ 234172	14	CLIP, tubular	
	{ 234173	14	RIVET	

Continued

HOOD (Cont'd.)
(Gasoline & Diesel)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
10	234450	1	COVER, top hood opening (f/Low Clearance Muffler)	
		3	900574 SCREW, mach.	
		3	904204 LOCKWASHER	
		3	910880 NUT	
11	234451	1	COVER, bottom, hood opening (f/Low Clearance Muffler)	
12	{ 233549	1	LINER, hood (f/Low Clearance Muffler)	
	{ 230204	1	ADHESIVE, hood liner (5 oz.)	
13	{ -----	2	TRANSFER, HD-3 (Diesel)	234310
	{ -----	2	TRANSFER, H-3 (Gasoline)	234052
14	235496	2	STUD, hood channel to rear support	
		2	904206 LOCKWASHER	
		2	911115 WASHER, plain	
		2	910324 NUT	



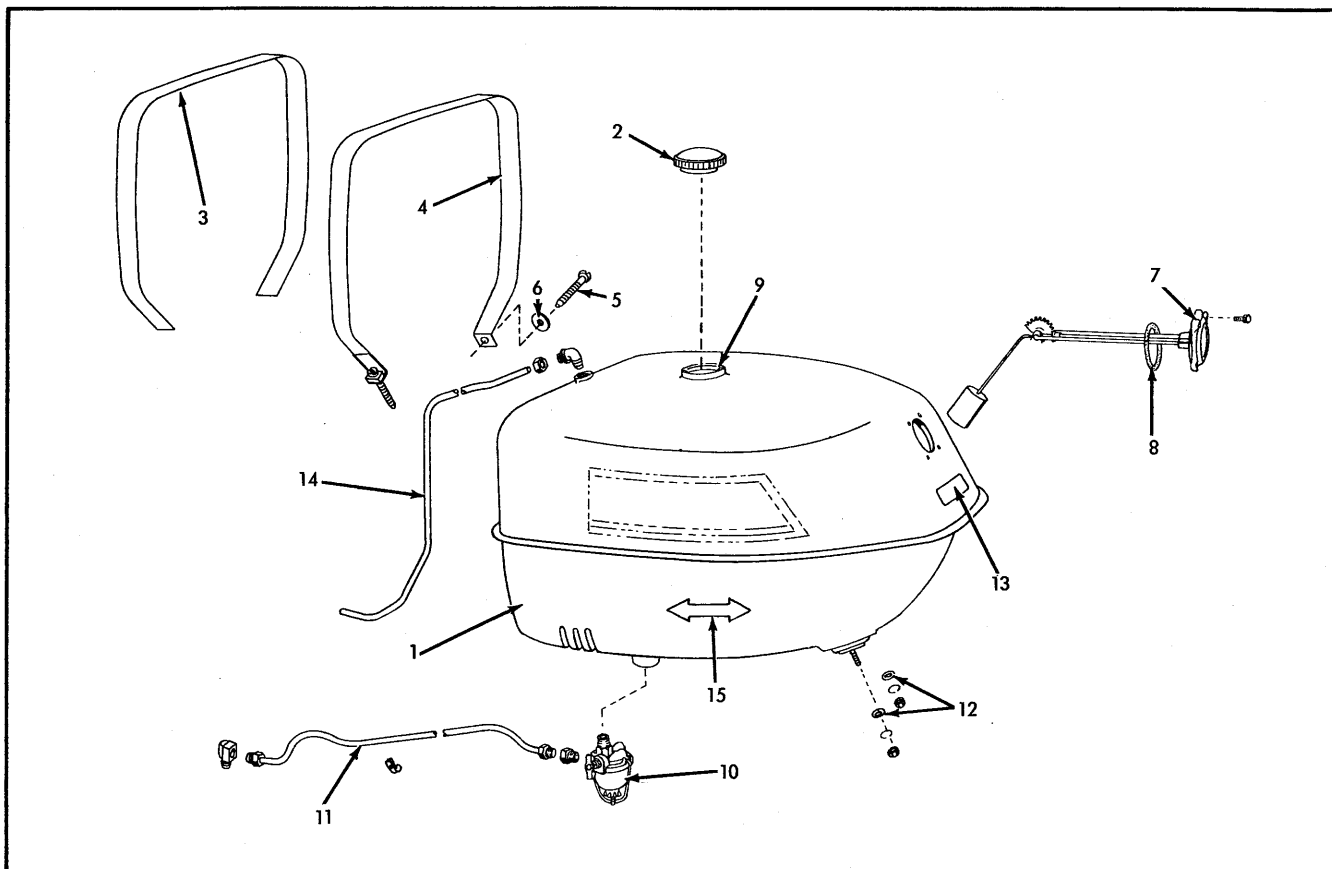
BATTERY TRAY, FUEL TANK SUPPORT & THROTTLE CONTROL

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	232915	1	RETAINER ASSY., battery	
2	229981	4	SEPARATOR, retainer, battery	
3	229489	1	CABLE, battery to starter solenoid	
4	232416	1	CABLE, battery ground	
		1	903628 CAPSCREW	
		1	904206 LOCKWASHER	
5	228369	2	ROD, battery hold down	
		2	920397 NUT	
		2	918264 WASHER	
6	233421	1	SUPPORT ASSY., fuel tank, front	
		2	903627 CAPSCREW	
		2	904206 LOCKWASHER	
7	228771	2	HOOK, hood fastener	
		2	910329 NUT, jam	
8	242131	1	TRAY ASSY., battery diesel tractor	
	237780	1	TRAY ASSY., battery (Supersedes 232284) Gas tr.	
		2	903637 CAPSCREW	
		2	904208 LOCKWASHER	

Continued

BATTERY TRAY, FUEL TANK SUPPORT & THROTTLE CONTROL (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
9	229189	1	STRIP, packing fuel tank	
10	234660	1	SUPPORT ASSY., fuel tank, rear	
		2	916310 CAPSCREW	
		2	904208 LOCKWASHER	
11	234138	1	LEVER ASSY., hand, throttle control	
12	233770	1	KNOB, hand lever	
13	-----	1	STUD (Not serviced)	
		1	916871 NUT	
14	225265	2	WASHER, friction	
		2	910335 WASHER, plain	
		1	916871 NUT	
15	227731	1	SPRING, friction washer	
16	229680	1	ROD, throttle control, front (Gasoline)	
		1	900970 PIN, cotter	
17	233773	1	ROD ASSY., throttle control, rear (Gasoline)	
		1	900970 PIN, cotter	
18	229817	1	PIN, control rod	
		1	918992 SETSCREW	
19	233501	1	SCREW, socket head (Diesel Tractor)	
20	236822	1	ROD, governor control, rear (Diesel tractor)	
		2	900970 PIN, cotter	
		2	911114 WASHER, plain	
21	233500	1	LEVER ASSY., gov. control (Diesel tractor)	
22	233499	1	BRACKET, gov. control (Diesel tractor)	
		2	903625 CAPSCREW	
		2	904204 LOCKWASHER	
		2	910880 NUT	
23	233502	1	ROD, control center (Diesel tractor)	
24	229822	1	CONNECTOR, rod (Diesel tractor)	
		2	918992 SETSCREW	
25	233503	1	ROD, governor front (Diesel tractor)	
26	229902	1	PIN, front rod (Diesel tractor)	
		1	918992 SETSCREW	



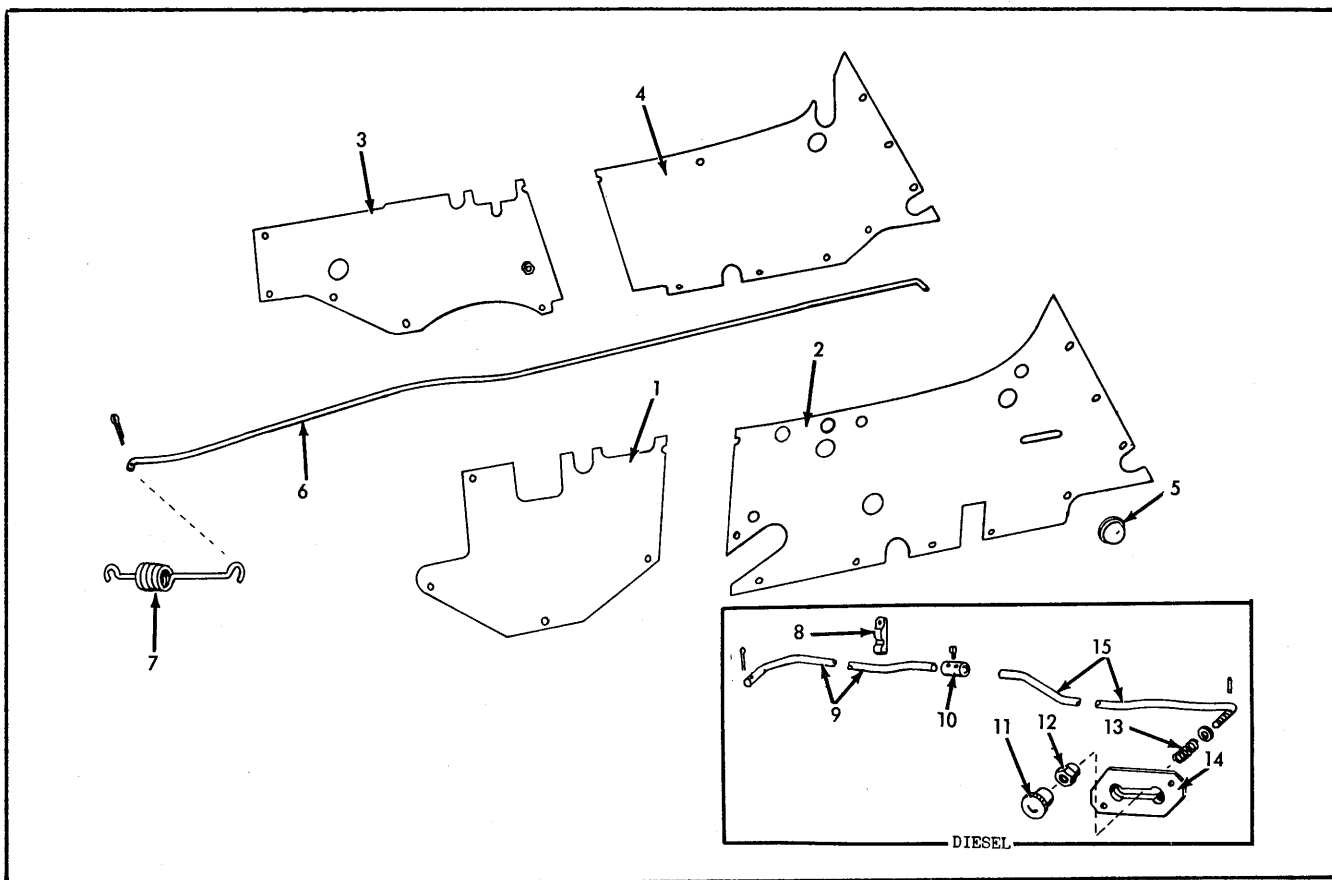
FUEL TANK
(Gasoline & Diesel)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234074	1	TANK ASSY., fuel	
	2	903630	CAPSCREW	
	2	904206	LOCKWASHER	
	2	910324	NUT	
	2	904205	LOCKWASHER	
	2	910323	NUT	
2	228498	1	CAP, fuel tank (Incl. GASKET)	
3	233425	1	STRIP, packing	
4	233423	1	STRAP ASSY., fuel tank	
5	202132	2	CAPSCREW, fuel tank strap	
6	910335	2	WASHER, plain	
7	227865	1	GAUGE, fuel	
	4	918548	SCREW, mach.	
8	228119	1	GASKET, fuel gauge	
9	230313	1	NECK, tank filler	
10	-----	1	FILTER ASSY., fuel (See Fuel Tank Filter Group)	

Continued

FUEL TANK (Cont'd)
(Gasoline & Diesel)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
11	233874	1	TUBE, fuel, filter to fuel pump (Gasoline)	
		2	913039 ELBOW	
	236256	1	TUBE ASSY., fuel filter to primer pump (Diesel w/Dry Air cleaner)	
	0253703-3	1	TUBE ASSY., fuel filter to primer pump (Diesel)	
	233521	1	TUBE ASSY., fuel, filter to primer pump (Diesel) (w/oil bath air cleaner)	
		1	915661 CONNECTOR	
		1	914095 ELBOW	
12	232648	2	WASHER, packing, rear support	
13	-----	1	TRANSFER, dismounting instructions	234052
14	1007867-3	1	TUBE, drip line (Diesel w/Dry air cleaner) (Replaces 236259)	
		1	917812 CONNECTOR (to tank)	
	233512	1	TUBE, drip line to tank (Diesel) (w/Oil bath air cleaner)	
		1	915661 ELBOW	
15	234516	1	TRANSFER, shuttle clutch	



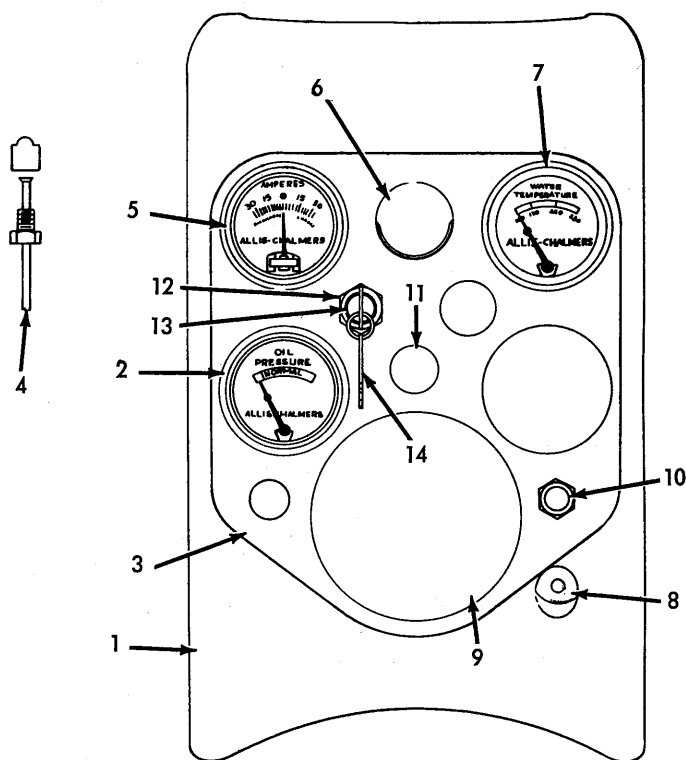
INJECTION PUMP CONTROL, CHOKE CONTROL & SIDE SHEETS
Gasoline & Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	235056	1	SHEET, side, L. H. front (Gasoline)	
	235060	1	SHEET, side, L. H. front (Diesel)	
		4	905655 CAPSCREW	
		4	904204 LOCKWASHER	
2	235057	1	SHEET, side, L. H. rear (Gasoline)	
	235061	1	SHEET, side, L. H. rear (Diesel)	
		5	905655 CAPSCREW	
		5	904204 LOCKWASHER	
		1	905657 CAPSCREW	
		1	904206 LOCKWASHER	
3	235058	1	SHEET, side, R. H. front	
		4	905655 CAPSCREW	
		4	904204 LOCKWASHER	
4	235059	1	SHEET side R. H. rear	
		5	905655 CAPSCREW	
		4	904204 LOCKWASHER	

Continued

INJECTION PUMP CONTROL, CHOKE CONTROL & SIDE SHEETS (Cont'd)
Gasoline & Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
5	234686	1	KNOB, choke rod (Gas only)	
6	247364	1	ROD, choke (Eff. w/Tr. S/N 8718 & up)	
	233684	1	ROD, choke (Used prior to Tr. S/N 8718)	
		1	900970 PIN, cotter	
7	211320	1	SPRING, choke rod	
8	229823	1	GUIDE, control rod (Diesel Tractor)	
9	235046	1	ROD, pump control, front (Diesel Tractor)	
		1	900970 PIN, cotter	
10	229822	1	CONNECTOR, rod (Diesel tractor)	
		2	918992 SETSCREW	
11	234686	1	KNOB, pump control (Diesel Tractor)	
12	234687	1	HUB, pump control rod (Diesel Tractor)	
13	229663	1	SPRING	
14	233506	1	PLATE ASSY., lock pump shut-off (Diesel Tractor)	
		2	910160 SCREW	
	-----	1	TRANSFER, pump shut-off.	234310
15	235047	1	ROD, pump control, rear (Diesel Tractor)	
		1	915996 PIN, roll	
		1	919084 WASHER, plain	



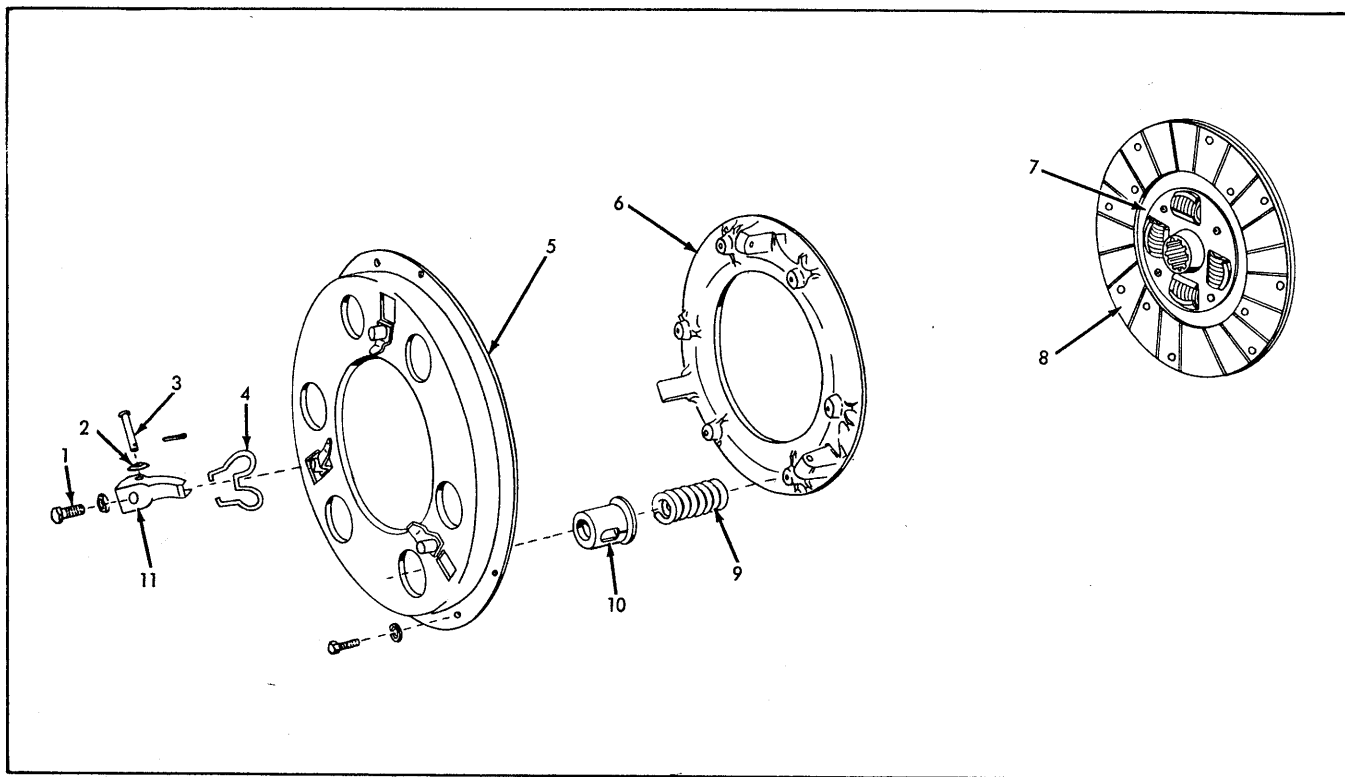
INSTRUMENT PANEL
Gasoline & Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	233759	1	PANEL, instrument	
			1 921193 PLUG, button 2-3/32" dia. hole	
			1 921192 PLUG, button 29/32" dia. hole	
2	228719	1	GAUGE, oil pressure (Gasoline) (Incl. CLAMP, NUTS & LOCKWASHERS)	
	232546	1	GAUGE, oil pressure (Diesel) (Incl. CLAMP, NUTS & LOCKWASHERS)	
		2	908865 NUT	
		2	906965 LOCKWASHER	
3	234164	1	TRIM, instrument panel	
4	228332	1	TUBE ASSY., oil pressure gauge (Incl. NUTS) (Gasoline)	
		1	917736 CONNECTOR, female	
		1	913839 CONNECTOR, male	
	233525	1	TUBE ASSY., oil pressure gauge (Incl. NUTS) (Diesel)	
		1	914094 ELBOW, male	
		1	919095 CONNECTOR, female	
5	0254407-0	1	AMMETER ASSY., (Incl. CLAMP, LOCKWASHERS, NUTS & WASHERS) (Replaces 240987)	
		2	909055 LOCKWASHER	
		4	916880 NUT	
		4	906938 WASHER, plain	

Continued

INSTRUMENT PANEL (Cont'd)
Gasoline & Diesel

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
6	234404	1	LAMP ASSY., dash (Incl. BULB & COVER)	
	2 907893		SCREW, s-tapping	
	-----	1	BULB, G.E. 67 (obtain locally)	
	234357	1	COVER, dash lamp	
7	231378	1	GAUGE, water temp. (Mounts at front head, gas tractors eff. w/ Eng. S/N H-1287R & up)	
	229870	1	GAUGE, water temp. (Incl. CLAMP, 2 NUTS & 2 LOCKWASHERS) (Diesel tractors prior to Eng. S/N H-1287R)	
	235724	1	ADAPTOR, temp. gauge cable to cylinder block	
	223502	1	CLAMP, temperature gauge tube	
	2 907893		SCREW	
	2 904204		LOCKWASHER	
8	228323	1	PLUG, button (pulley lever hole)	
9	234360	1	COVER ASSY., operation meter hole	
10	234409	1	SWITCH, lighting	
	230170	1	ADAPTOR, terminal	
	1 918864		CAP, tube	
11	921191	1	PLUG, button (gasoline)	
	0253722-3	2	SWITCH ASSY., heater & starter (push button)(2nd type) (Replaces 245936)	
	227029	2	SWITCH ASSY., heater & starter (1st type) (Push button) (1 used Gas Tractor)	
	0253320-6	1	SWITCH	
	0239346-0	1	CAP and NUT ASSY.	
	0253321-4	1	CAP and NUT ASSY., heater switch	
	230192	1	CABLE, ignition switch to starter	
12	233634	1	CABLE, heater, switch to ignition switch	
	232187	1	NUT, locking, ignition & starting switch	
	241965	1	SWITCH ASSY., ignition (2nd type)	
13	235785	1	SWITCH ASSY., ignition & starting (Incl. KEYS) (Supersedes 234356) (1st type)	
	233321	1	SLEEVE, insulating, switch terminal	
	231995	1	CABLE, ignition switch to ammeter (Diesel)	
14	231713	2	KEY, ignition (1st type)	
	241977	2	KEY, ignition (2nd type)	

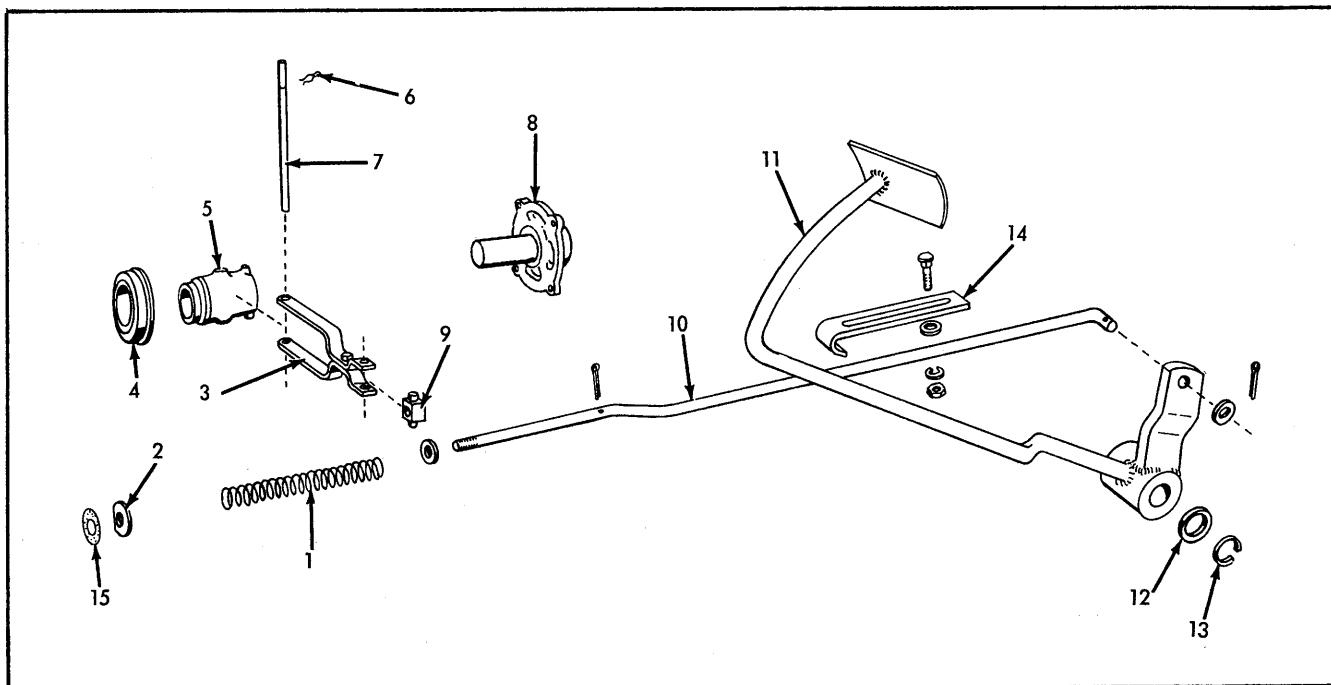


ENGINE CLUTCH

* Std. Clutch

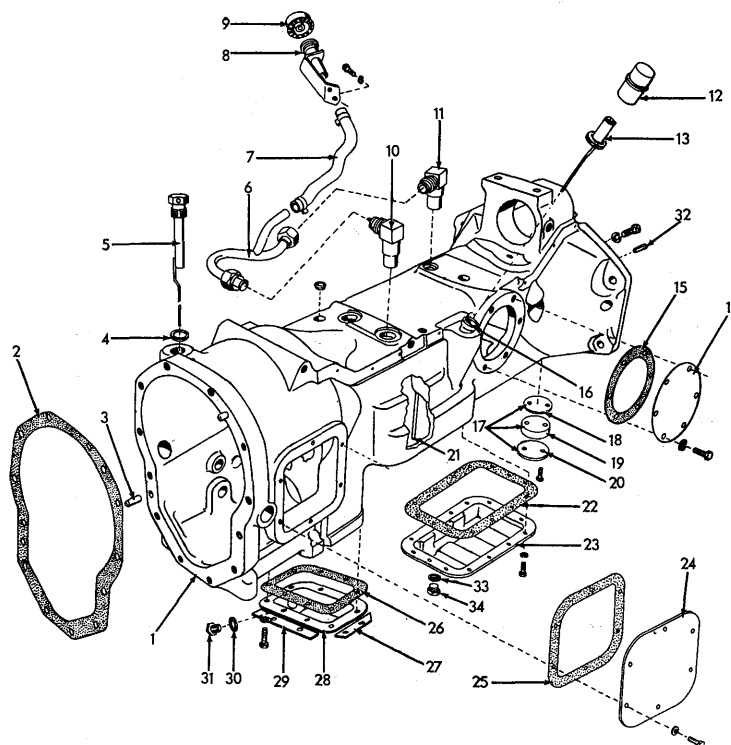
** Heavy Duty Clutch

ITEM	PART NUMBER	QTY.		DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**		
-	{ 228926	1	-	PLATE ASSY., pressure (9" Standard)(Incl. items 1-6 & 9-11)	
	{ 247745	-	1	PLATE ASSY., pressure (H.D.)(Incl. items 1-6 & 9-11)	
1	204846	3	3	SCREW, adjusting, release lever	
				1 910329 NUT	
2	225656	3	3	WASHER	
3	208292	3	3	PIN, pivot	
4	228971	3	3	SPRING	
5	228969	1	1	PLATE ASSY., back	
6	{ 234491	1	-	PLATE, pressure	
	{ 228968	-	1	PLATE, pressure	
7	{ 236105	1	-	DISC ASSY., driven (Incl. item 8)	
	{ 253187	-	1	DISC ASSY., driven (Replaces 247743)	
	0247744-6	-	1	Disc Assy., driven 9"	
8	-----	2	-	FACING, driven (Std. Clutch only) 228938	
				12 911005 RIVET	
9	{ 228947	6	-	SPRING, pressure	
	{ 247746	-	6	SPRING, pressure	
10	204844	6	6	CUP, pressure spring	
11	228950	3	3	LEVER, release	



CLUTCH PEDAL

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	233922	1	SPRING, pedal return	
2	230718	1	WASHER, pedal return spring	
3	229918	2	LEVER, clutch shifter	
		1	916225 CAPSCREW	
		1	918317 NUT	
4	235079	1	BEARING, clutch release (Supersedes 227704)	
5	227703	1	SHIFTER, clutch	
6	207267	1	RETAINER, shifter shaft	
7	227705	1	SHAFT, clutch shifter fork	
8	-----	1	RETAINER ASSY., clutch shaft (See Engine Clutch Shaft & Gears Group)	
9	227707	1	TRUNNION, clutch shifter fork	
10	236755	1	ROD, clutch	
		2	900806 PIN, cotter	
		2	912007 WASHER, plain	
11	233923	1	PEDAL, clutch	
12	227712	1	WASHER, retainer	
13	227711	1	RING, snap	
14	234117	1	STOP, clutch pedal	
		2	913997 BOLT	
		2	911115 WASHER	
		2	904206 LOCKWASHER	
		2	910324 NUT	
15	241563	1	GASKET, return spring (Eff. w/Tr. S/N 7085 & up)	



TORQUE HOUSING

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234497	1	HOUSING ASSY., torque (Incl. items 3, 16 & 21)	
			4 920583 CAPSCREW (to block)	
			1 907856 PLUG, pipe	
			1 910004 PLUG, expansion	
			4 904208 LOCKWASHER	
2	233242	1	GASKET, torque housing to transmission	
3	202532	4	PIN, dowel housing	
4	243009	1	GASKET, oil level gauge	
5	231667	1	GAUGE ASSY. (Incl. PLUG, ROD, BREATHER & TUBE)	
6	234755	1	TUBE ASSY., breather (f/Hydraulic Equipment)	
7	234761	1	TUBE, breather (f/Hydraulic Equipment)	
		2	921911 CLAMP	
8	234800	1	TUBE ASSY., breather (f/Hydraulic Equipment)	
		1	905655 CAPSCREW	
		1	904204 LOCKWASHER	
9	234763	1	CAP ASSY., breather (f/Hydraulic Equipment)	
10	234760	1	ADAPTER, breather (f/Hydraulic Pump)	
11	234759	1	ADAPTER, breather (f/Hydraulic Pump)	
12	203196	1	CAP, breather	

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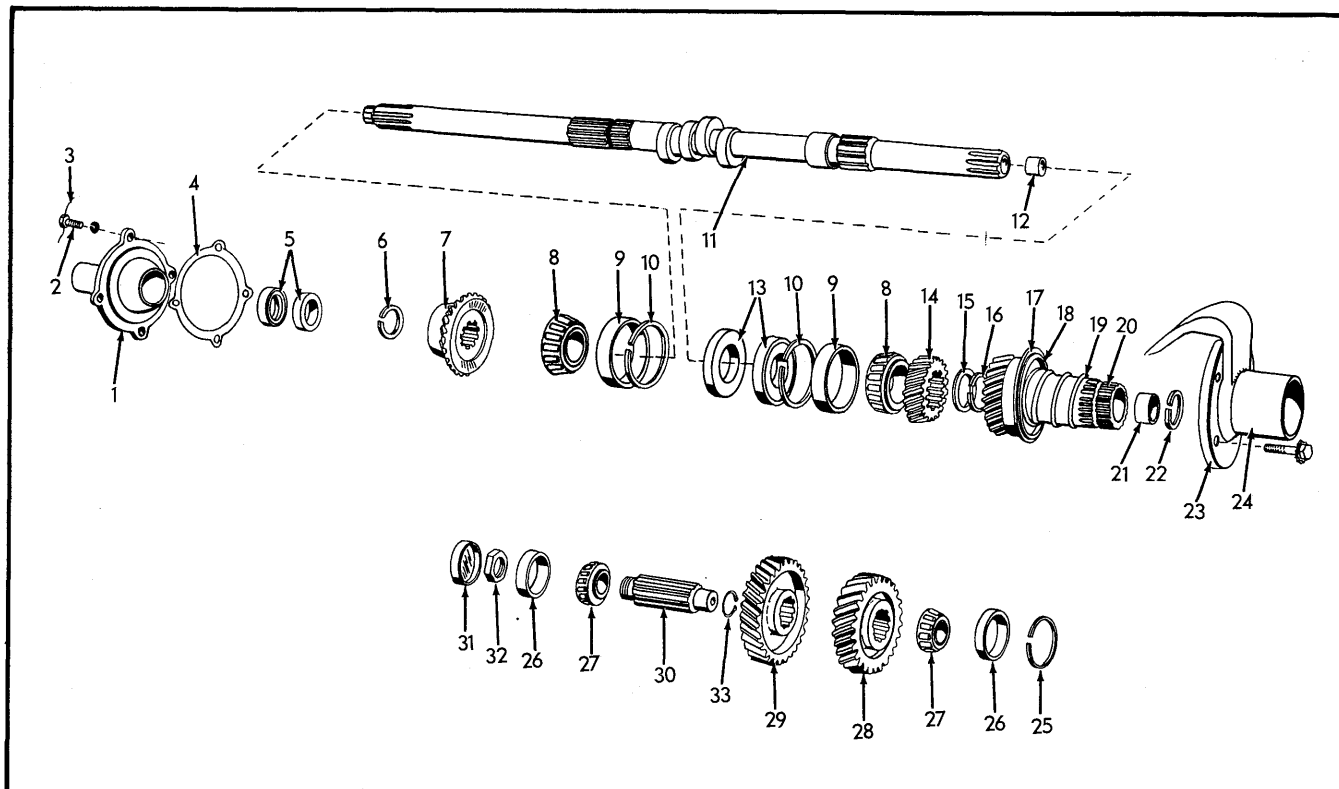
TORQUE HOUSING (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
13	{ 230448	1	CAP ASSY., (Incl. DIPSTICK) (f/base tractor)	
	{ 234764	1	CAP ASSY., oil filler (f/hydraulic equipment)	
14	227672	1	COVER, pulley	
		6	905274 CAPSCREW	
		6	904208 LOCKWASHER	
15	233244	1	GASKET, pulley cover	
16	228565	1	TUBE ASSY., oil filler	
17	234158	1	PLUG ASSY.	
		2	910245 CAPSCREW	
18	234159	1	PLATE, core hole	
19	234160	1	PLUG, core hole	
20	234161	1	CAP, core hole plug	
21	228565	1	TUBE, oil	
22	233249	1	GASKET, pump housing or sump	
23	{ 230320	1	HOUSING, pump compartment	} See Hyd Lines Group
		14	903630 CAPSCREW	
		14	904206 LOCKWASHER	
	{ 234632	1	SUMP, torque housing, hydraulic pump	
24	{ 227675	1	COVER ASSY., clutch (Power Director)	
	{ 233461	1	COVER ASSY., oil cooler (Shuttle Clutch) (See Oil Cooler Group)	
25	233245	1	GASKET, cover	
26	{ 246134	1	GASKET, PTO cover (Eff. w/Tr. S/N 8718 & up)	
	{ 233188	1	GASKET, PTO cover (Used prior to Tr. S/N 8718)	
27	230085	2	STRIP, reinforcing	
28	229299	1	COVER, PTO gear	
		8	903626 CAPSCREW	
		8	904205 LOCKWASHER	
29	230084	2	STRIP, long, reinforcing	
30	226012	2	GASKET, drain plug	
31	225389	2	PLUG, drain	
32	{ 230502	1	SEAL, clutch housing (gas tractor)	
	{ 237121	1	SEAL, clutch housing (diesel tractor)	

Continued

TORQUE HOUSING (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
33	226012	1	GASKET, drain plug	
34	225389	1	PLUG, drain (magnetic)	
--	235001	1	TUBE ASSY., oiler, pump gear (f/hydraulic equipment) (Not Illustrated)	
		1	903634 CAPSCREW	
		1	904206 LOCKWASHER	
		1	910324 NUT	
--	228627	1	PIVOT, clutch pedal (Not shown)	



ENGINE CLUTCH SHAFT

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234151	1	RETAINER ASSY., clutch shaft (Incl. TUBE)	
	3 0921210-1		CAPSCREW (Replaces 903630)	
	3 0916956-6		LOCKWASHER (Replaces 904206)	
	1 0921965-0		CAPSCREW (lower) (Replaces 903629)	
	1 0916803-0		LOCKWASHER (Replaces 906960)	
2	231174	3	CAPSCREW, clutch shaft retainer	
	1 904207		LOCKWASHER	
3	-----	-	WIRE, capscREW locking (Use 10" 910815)	
4	0237197-5	1	GASKET, clutch shaft retainer (Replaces 234153)	
5	242624	1	SEAL, oil, clutch shaft retainer	
6	227596	1	RING, snap, pinion bushing	
7	{ 234156	1	GEAR, drive hydraulic pump (Used prior to Tr. S/N 2926)	
	{ 235567	1	GEAR, drive hydraulic pump, (Eff. w/Tr. S/N 2926 & up)	
8	222214	2	CONE, bearing, clutch shaft	
9	227678	2	CUP, bearing, clutch shaft	
10	227598	2	RING, snap, bearing	
11	0254533-3	1	SHAFT ASSY., engine clutch (Incl. Item 12) (Replaces 234154)	
12	248194	1	BUSHING, clutch shaft (Replaces 227539)	
13	227677	2	SEAL, oil, clutch shaft	

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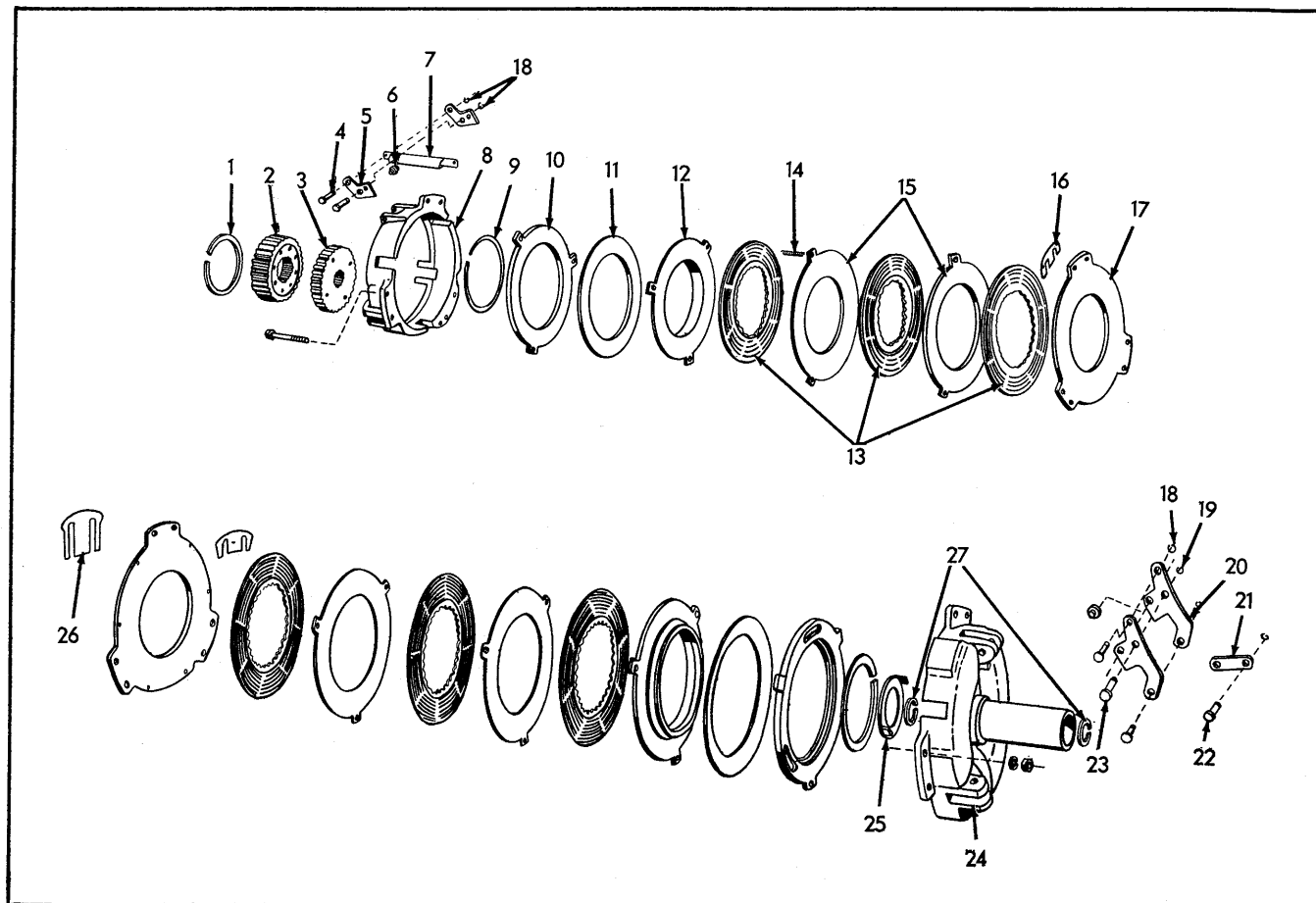
ENGINE CLUTCH SHAFT (Cont'd.)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
14	231657	1	GEAR, drive, clutch shaft (Shuttle Clutch)	
	234165	1	GEAR, drive, clutch shaft (Power Director)	
15	234045	1	WASHER, thrust, drive gear	
	234032	*	RING, snap, drive gear, .093"	*Select one
	234033	*	RING, snap, drive gear, .089"	
	234034	*	RING, snap, drive gear, .097"	
	234035	*	RING, snap, drive gear, .101"	
	234036	*	RING, snap, drive gear, .105"	
	234037	*	RING, snap, drive gear, .109"	
16	234038	*	RING, snap, drive gear, .113"	
	239480	*	RING, snap, drive gear, .115"	
	234039	*	RING, snap, drive gear, .117"	
	239481	*	RING, snap, drive gear, .119"	
	234040	*	RING, snap, drive gear, .121"	
	239482	*	RING, snap drive gear, .123"	
	234041	*	RING, snap, drive gear, .125"	
	239483	*	RING, snap, drive gear, .127"	
	234042	*	RING, snap, drive gear, .129"	
	239484	*	RING, snap, drive gear, .131"	
	234043	*	RING, snap, drive gear, .133"	
	239485	*	RING, snap, drive gear, .135"	
	234044	*	RING, snap, drive gear, .137"	
			(*Use as required)	
17	241370	1	BEARING ASSY., ball	
18	219623	1	RING, snap, ball bearing	
19	228322	1	SPRING, oil (Impeller) (Power Director)	
	232618	1	SPRING, oil (Impeller) (Shuttle Clutch)	
20	230732	1	SHAFT ASSY., transmission clutch (Power Director)	
	231663	1	SHAFT ASSY., transmission clutch (Shuttle Clutch)	
21	228069	1	BUSHING, clutch shaft	
22	228032	1	RING, snap, clutch shaft	
23	228030	1	RETAINER, bearing	
24	0244524-5	1	TUBE, oil transfer (Replaces 228348)	
	4 0921210-1		CAPSCREW (Replaces 903630)	
	4 0916965-7		LOCKWASHER (Replaces 904206)	

Continued

ENGINE CLUTCH SHAFT (Cont'd.)

PART			ASSEMBLY OR
ITEM	NUMBER	QTY.	PACKAGE NO.
25	228748	*	RING, snap, bearing, intermediate shaft, .069"
	228749	*	RING, snap, bearing, intermediate shaft, .073"
	228750	*	RING, snap, bearing, intermediate shaft, .077"
	228751	*	RING, snap, bearing, intermediate shaft, .081"
	239384	*	RING, snap, bearing, intermediate shaft, .083"
	228752	*	RING, snap, bearing, intermediate shaft, .085"
	239385	*	RING, snap, bearing, intermediate shaft, .087"
	228753	*	RING, snap, bearing, intermediate shaft, .089"
	239386	*	RING, snap, bearing, intermediate shaft, .091"
	228754	*	RING, snap, bearing, intermediate shaft, .093"
	239387	*	RING, snap, bearing, intermediate shaft, .095"
	228755	*	RING, snap, bearing, intermediate shaft, .097"
	239388	*	RING, snap, bearing, intermediate shaft, .099"
	228756	*	RING, snap, bearing, intermediate shaft, .101"
	239389	*	RING, snap, bearing, intermediate shaft, .103"
	228757	*	RING, snap, bearing, intermediate shaft, .105"
	239390	*	RING, snap, bearing, intermediate shaft, .107"
	228758	*	RING, snap, bearing, intermediate shaft, .109"
(*Use as required)			
26	228153	2	CUP, bearing, intermediate shaft
27	228152	2	CONE, bearing, intermediate shaft
28	231659	1	GEAR, drive, intermediate shaft (Shuttle Clutch)
	234088	1	GEAR, drive, intermediate shaft (Power Director)
29	231658	1	GEAR, driven, intermediate shaft (Shuttle Clutch)
	234166	1	GEAR, driven, intermediate shaft (Power Director)
30	234090	1	SHAFT, intermediate
31	232835	1	PLUG, intermediate shaft
32	232834	1	NUT, intermediate shaft
33	232833	1	RING, snap, intermediate shaft

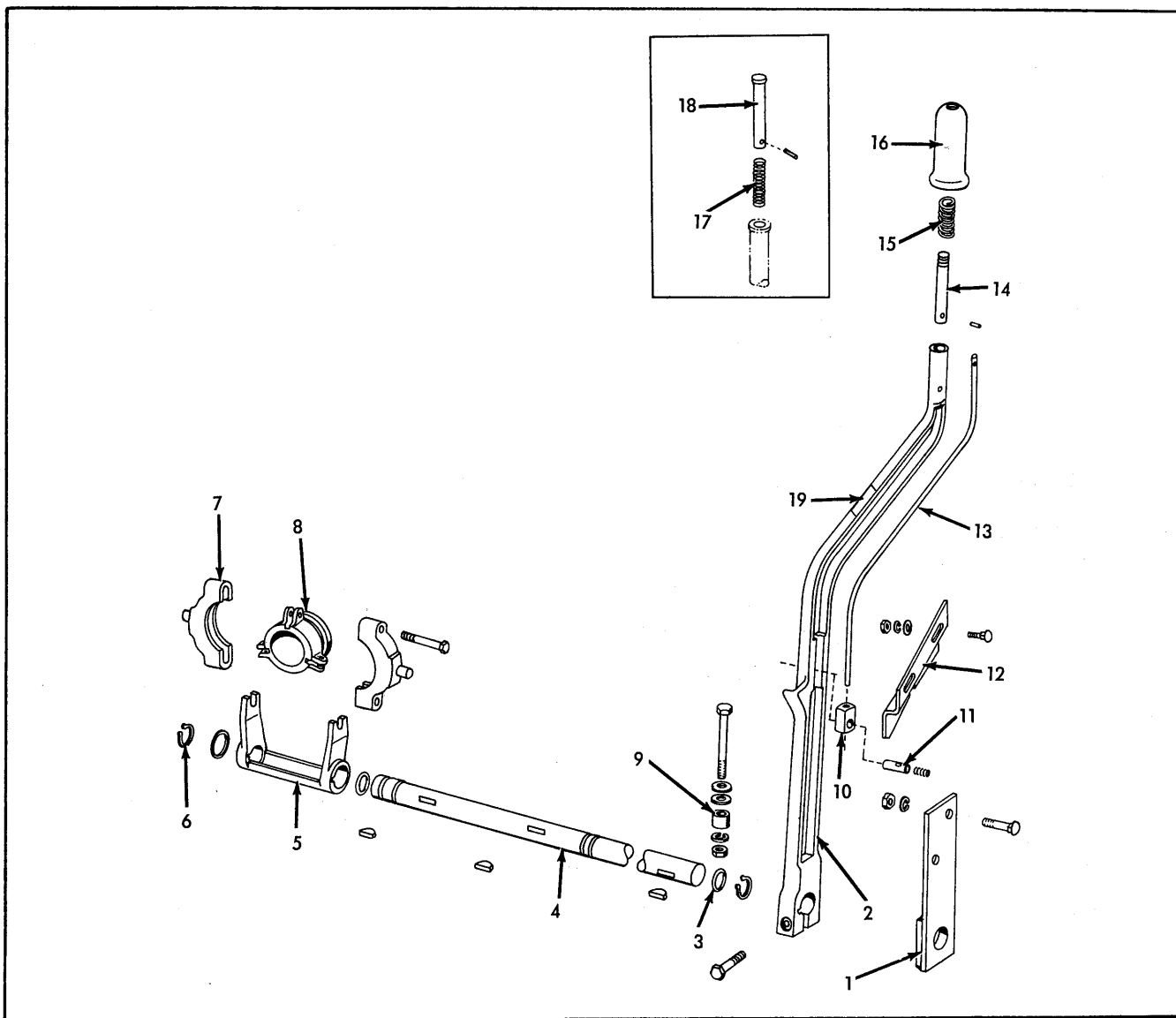


SHUTTLE OR POWER DIRECTOR CLUTCH

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	232127	1	CLUTCH ASSY., transmission (Incls. Items 4 - 24 & 26)	
1	228064	1	RING, snap	
2	228070	1	HUB, clutch, front	
3	228071	1	HUB, clutch, rear	
4	228046	9	PIN, release lever & link	
5	228063	6	LEVER, release	
6	223155	6	ROLLER, release lever	
7	228043	3	LINK ASSY., clutch	
8	228054	1	HOUSING, clutch, front	
	6 920410		CAPSCREW	
	6 916770		NUT	
9	228039	2	RING, snap	
10	230015	2	PLATE, preload	
11	228037	2	WASHER, pressure	
12	228067	2	PLATE ASSY., pressure	
13	232080	6	DISC ASSY., clutch	
			Continued	

SHUTTLE CLUTCH (Cont'd.)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
14	228055	6	SPRING, clutch plate	
15	228034	4	PLATE, clutch	
16	228072	24	SHIM, outer, .015"	
	228074	18	SHIM, outer, .010"	
17	228040	2	PLATE, clutch, center	
18	223395	12	RING, snap	
19	228042	6	RING, snap, release lever	
20	228047	6	LEVER, release	
21	228048	3	LINK, release lever	
22	223159	3	PIN, link	
23	228041	6	PIN, pivot, release lever	
24	228053	1	HOUSING, clutch, rear	
25	228267	1	WASHER, thrust	
26	231082	1	SHIM, center plate, .005"	
	228075	3	SHIM, center plate, .010"	
	228073	6	SHIM, center plate, .015"	
27	224745	2	RING, snap, main shaft	



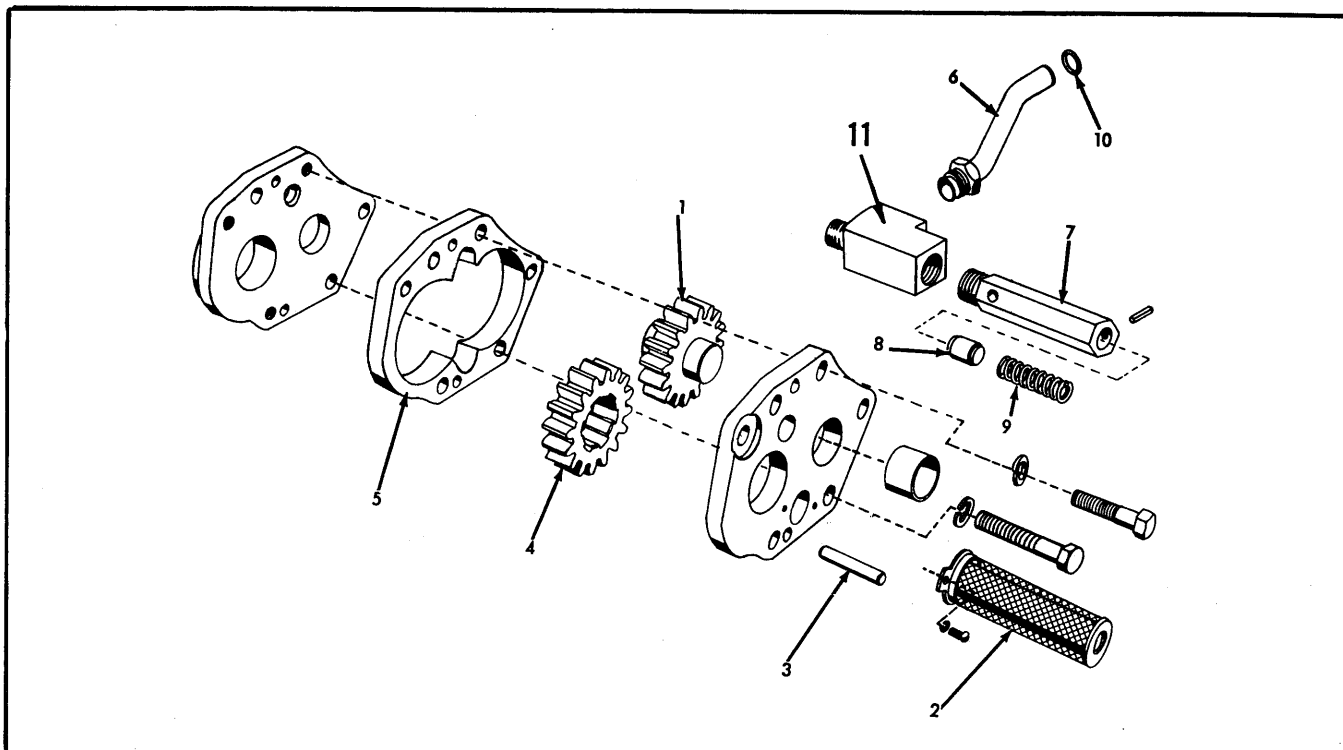
SHUTTLE CLUTCH CONTROL

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234098	1	SUPPORT, shaft	
		2	918033 BOLT	
		2	913544 WASHER, plain	
		2	904206 LOCKWASHER	
		2	910324 NUT	
2	236320	1	LEVER, shuttle clutch (Eff. w/ Tr. Serial No. H3 & HD3 - 3136 & up)	
	234120	1	LEVER, shuttle clutch (Prior to Tractor Serial No. H3 and HD3 - 3136)	
		1	903640 CAPSCREW	
		1	912233 WASHER, plain	
3	232985	2	O-RING, shifter fork shaft	

Continued

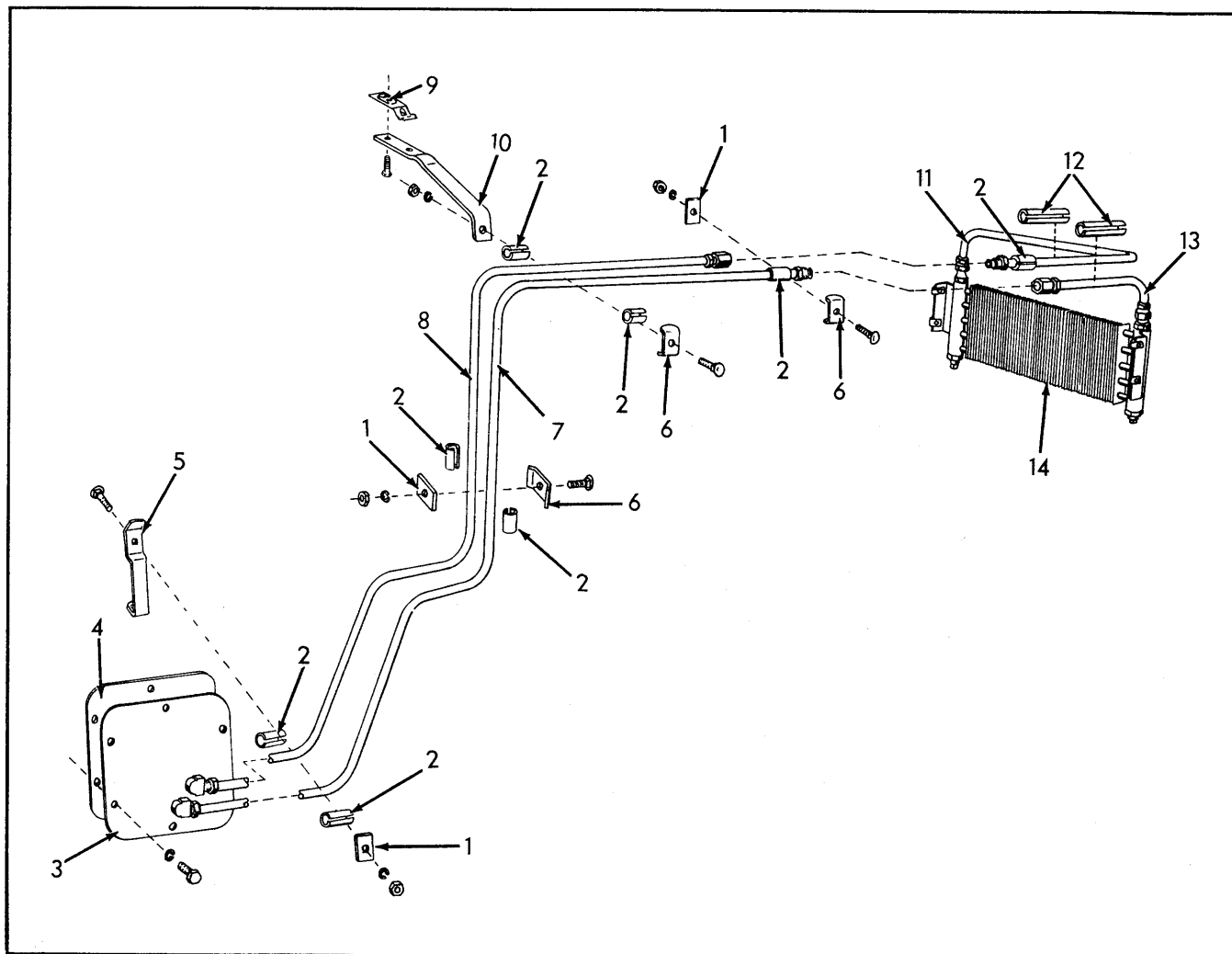
SHUTTLE CLUTCH CONTROL (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
4	234097	1	SHAFT, shifter fork 3 921137 KEY, Hi-Pro * 915978 WASHER, plain (* As req'd) 1 919393 WASHER, plain	
5	236050	1	FORK, shifter (Supersedes 234093)	
6	227711	2	RING, snap, shifter fork retaining	
7	236409	1	COLLAR ASSY., clutch (Supersedes 228051) 2 913611 CAPSCREW 2 918317 NUT	
8	1003771-1	1	SHIFTER, clutch (Replaces 237742)	
9	232979	1	SPACER, lever stop 1 903640 CAPSCREW * 912333 WASHER (* As req'd) 1 904208 LOCKWASHER 1 910325 NUT	
10	236936	1	BLOCK, control rod (Supersedes 228149)	
11	228058	1	PIN, control rod 1 912236 SETSCREW	
12	234121	1	QUADRANT, clutch lever 2 922249 BOLT 2 913544 WASHER, plain 2 904206 LOCKWASHER 2 910324 NUT	
13	234122	1	ROD, release Used prior to Tr. S/N H3 & HD3 - 3136)	
	236321	1	ROD, release (Eff. w/Tr. S/N H3 & HD3 & 3136 & up)	
14	236323	1	STEM, knob (Eff. w/Tr. S/N H3 & HD3 - 3136 & up) 1 918547 PIN, roll	
15	236324	1	SPRING, lever (Eff. w/Tr. S/N H3 & HD3 - 3136 & up)	
16	236322	1	KNOB, release (Eff. w/Tr. S/N H3 & HD3 - 3136 & up)	
17	232312	1	SPRING, lever (Used prior to S/N 3136)	
18	228697	1	BUTTON, release (Used prior to Tr. S/N H3 & HD3 - 3136 1 918547 PIN, roll	
19	232691	1	TRANSFER, shuttle clutch	



SHUTTLE & POWER DIRECTOR OIL PUMP

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	233280	1	HOUSING ASSY., oil pump (Incl. Items 5 & two SIDE PLATES & two BUSHINGS, not serviced separately)	
	3		903632 CAPSCREW, (short)	
	6		904208 LOCKWASHER	
	3		904281 CAPSCREW (long)	
	1		920174 TEE	
1	229436	1	GEAR ASSY., driven	
2	229442	1	SCREEN ASSY., oil	
	2		900553 SCREW	
	2		906964 LOCKWASHER	
3	229433	2	DOWEL, side plate	
4	229435	1	GEAR, drive	
5	-----	1	BODY, pump (Order 233280)	
6	233279	1	TUBE ASSY., oil pump	
7	233276	1	BODY, relief valve	
	1		916168 PIN, roll	
8	233277	1	PISTON	
9	233278	1	SPRING	
10	0924937-6	1	O-RING (Replaces 227344)	
	0920174-0	1	TEE	



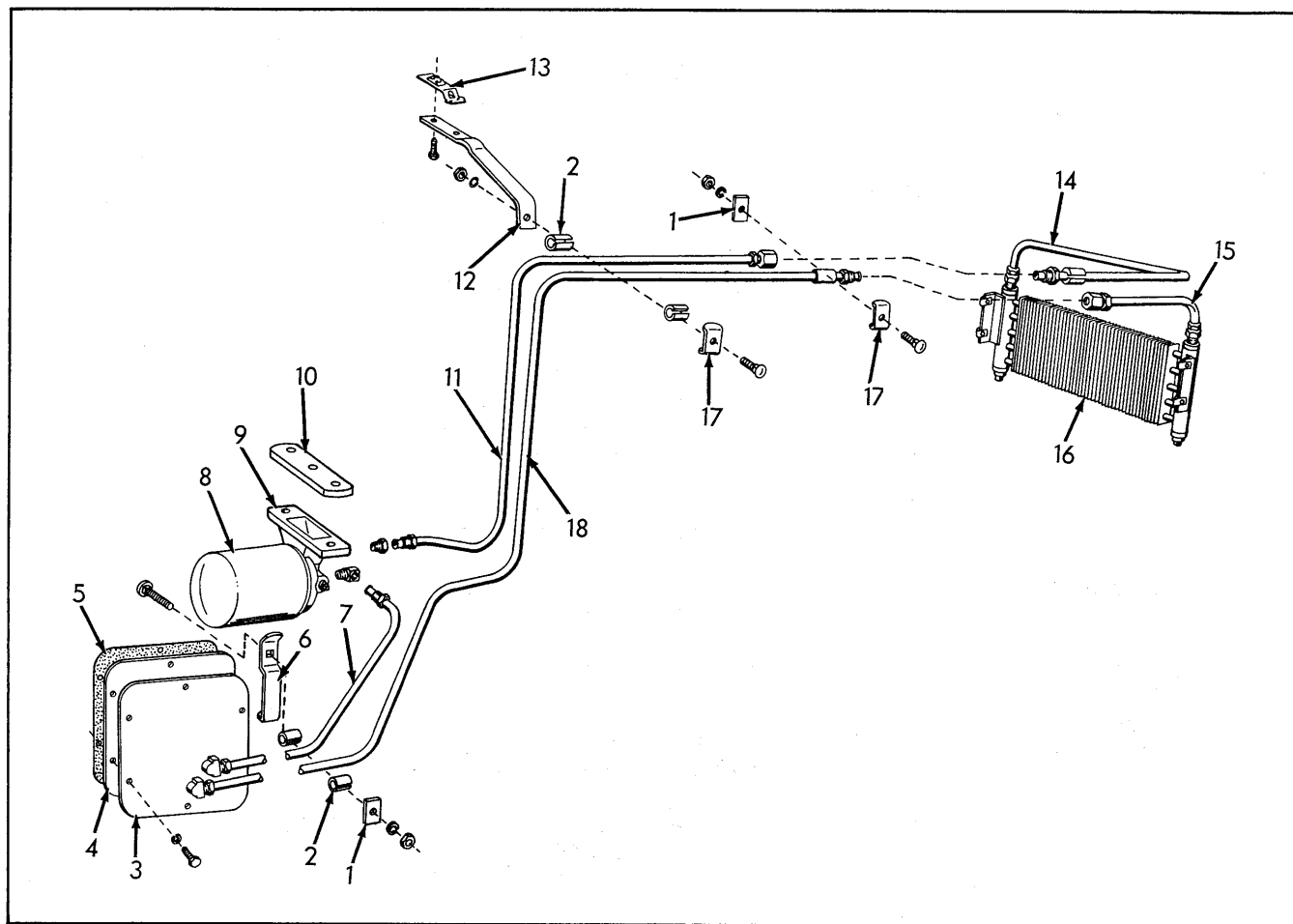
OIL COOLER - SHUTTLE CLUTCH

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234087	3	BRACKET, tube clamp	
		1	918018 BOLT	
		1	904204 LOCKWASHER	
		1	910880 NUT	
2	228441	8	CUSHION, tube clamp	
3	233461	1	COVER ASSY., oil cooler pump	
		2	913888 ELBOW	
		6	916269 CAPSCREW	
		6	904206 LOCKWASHER	
4	233222	1	COVER, oil cooler pump (outer)	
5	234757	1	BRACKET, tube clamp, rear (f/Tractor w/Torque Housing Reservoir)	
	234754	1	BRACKET, tube clamp, rear	
		1	918018 BOLT	
		1	904204 LOCKWASHER	
		1	910880 NUT	

Continued

OIL COOLER - SHUTTLE CLUTCH (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
6	228465	3	CLAMP	
7	246386	1	TUBE ASSY., cover to cooler, rear (Eff. w/Tr. S/N 8718 & up)	
	234752	1	TUBE ASSY., cover to cooler, rear (Incl. NUTS) (Used prior to Tr. S/N 8718)	
		1	913888 ELBOW	
8	246387	1	TUBE ASSY., cooler to cover, rear (Eff. w/Tr. S/N 8718 & up)	
	234753	1	TUBE ASSY., cooler to cover, rear (Incl. NUTS) (Used prior to Tr/ S/N 8718)	
		1	913888 ELBOW	
9	229534	2	NUT, speed, bracket screw 2 921179 SCREW, s-tapping	
10	0239738-8	1	BRACKET, support tube (Replaces 233475) 1 918018 BOLT 1 904204 LOCKWASHER 1 910880 NUT	
11	234086	1	TUBE ASSY., cooler to cover, front (Incl. NUTS) 1 917485 UNION 1 914685 CONNECTOR	
12	233635	2	CUSHION, tube	
13	234085	1	TUBE ASSY., cover to cooler, front (Incl. NUTS) 1 917485 UNION 1 914685 CONNECTOR	
14	235004	1	COOLER, air to oil 4 918118 NUT, speed 4 901164 SCREW	



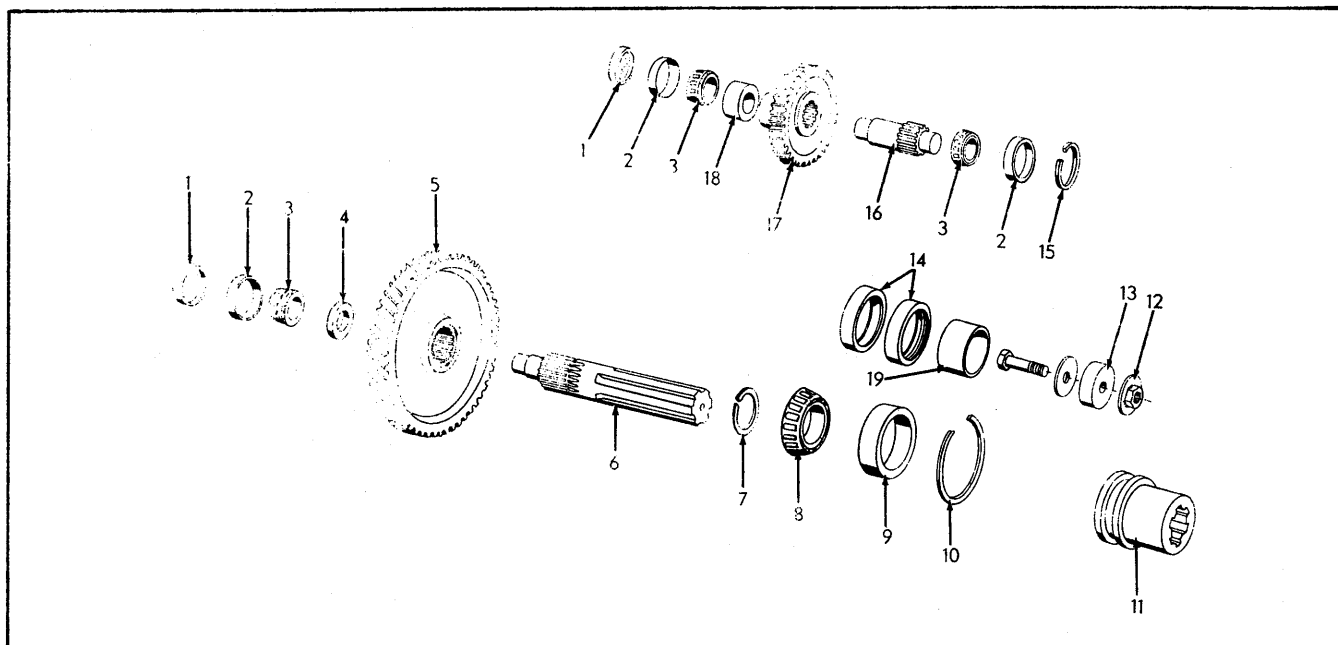
OIL COOLER - POWER DIRECTOR
54" Tread Muckland Tractor

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234087	2	BRACKET, tube clamp	
			1 918018 BOLT, w/o nut	
			1 904204 LOCKWASHER	
			1 910880 NUT	
2	228441	6	CUSHION, tube	
3	233222	1	COVER, oil cooler outer	
			6 916269 CAPSCREW	
			6 904206 LOCKWASHER	
4	233461	1	COVER ASSY., inner oil cooler	
5	233245	1	GASKET, cover to torque housing	
6	234754	1	BRACKET, tube clamp, rear	
7	235903	1	TUBE ASSY., filter to cover (Incl. NUTS)	
			1 913888 ELBOW (to cover)	
			1 919543 ELBOW (to filter)	
8	237000	1	FILTER ASSY., oil	

Continued

OIL COOLER - POWER DIRECTOR (Cont'd)
54" Tread Muckland Tractor

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
9	232426	1	BASE, oil filter	
		2	901651 PLUG, pipe sq. hd.	
		1	903772 CAPSCREW	
		1	910323 NUT	
		1	904205 LOCKWASHER	
10	235050	1	BRACKET, filter base mounting	
		1	914806 CAPSCREW	
		1	913708 CAPSCREW	
		2	913707 LOCKWASHER	
		2	910335 WASHER	
11	235902	1	TUBE ASSY., cooler to filter (rear)	
		1	920175 CONNECTOR (to filter)	
12	0239738-8	1	BRACKET, tube support (Replaces 233475)	
		2	921179 SCREW, s-tap	
13	229534	2	NUT, speed (to hood channel)	
14	234086	1	TUBE ASSY., cooler to filter (front) (Incl. NUTS)	
		1	917485 UNION (to tube)	
		1	914685 CONNECTOR (to cooler)	
15	234085	1	TUBE ASSY., cover to cooler (front) (Incl. NUTS)	
		1	917485 UNION (to tube)	
		1	914685 CONNECTOR (to cooler)	
16	235004	1	COOLER, air to oil	
		4	918118 NUT, speed	
		4	901164 SCREW	
17	228465	2	CLAMP, double	
		1	918018 BOLT, w/o Nut	
		1	904204 LOCKWASHER	
		1	910880 NUT	
18	235904	1	TUBE ASSY., cover to cooler (rear) (Incl. NUTS)	



POWER TAKE-OFF SHAFT & GEARS

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	227680	2	PLUG, idler shaft	
2	228153	3	CUP, bearing, front & idler shaft	
3	228152	3	CONE, bearing, front & idler shaft	
4	231665	1	WASHER, thrust	
5	233471	1	GEAR, P. T. O. (Power Director)	
	231662	1	GEAR, P. T. O. (Shuttle Clutch)	
6	231661	1	SHAFT, P. T. O. front	
7	229456	3	RING, snap, bearing, .095"	
8	227665	1	CONE, bearing, front shaft, inner	
9	227666	1	CUP, bearing, front shaft, inner	

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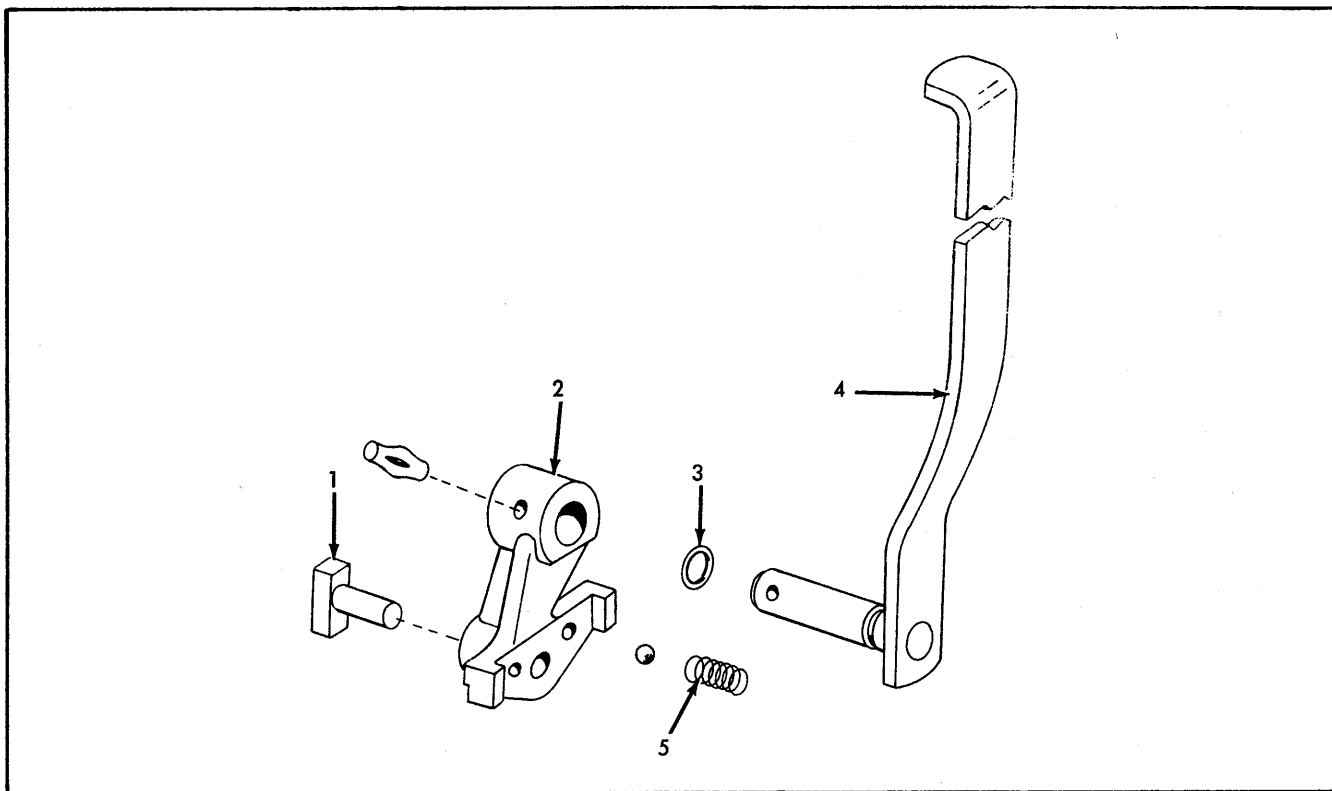
POWER TAKE-OFF SHAFT & GEARS (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
10	228737	*	RING, snap, front shaft inner bearing, .070"	*Select one
	228738	*	RING, snap, front shaft inner bearing, .074"	
	228739	*	RING, snap, front shaft inner bearing, .078"	
	228740	*	RING, snap, front shaft inner bearing, .082"	
	228741	*	RING, snap, front shaft inner bearing, .086"	
	228742	*	RING, snap, front shaft inner bearing, .090"	
	239475	*	RING, snap, front shaft inner bearing, .092"	
	228743	*	RING, snap, front shaft inner bearing, .094"	
	239476	*	RING, snap, front shaft inner bearing, .096"	
	228744	*	RING, snap, front shaft inner bearing, .098"	
	239477	*	RING, snap, front shaft inner bearing, .100"	
	228745	*	RING, snap, front shaft inner bearing, .102"	
	239478	*	RING, snap, front shaft inner bearing, .104"	
	228746	*	RING, snap, front shaft inner bearing, .106"	
	239479	*	RING, snap, front shaft inner bearing, .108"	
	228747	*	RING, snap, front shaft inner bearing, .110"	
			*Use as required)	
11	229310	1	COUPLING, P. T. O. shaft	
12	234020	1	NUT ASSY., plug	
		1	903632 CAPSCREW	
		1	915798 WASHER	
13	234019	1	PLUG, transmission	
14	227679	2	SEAL, P. T. O. hole, transmission housing	

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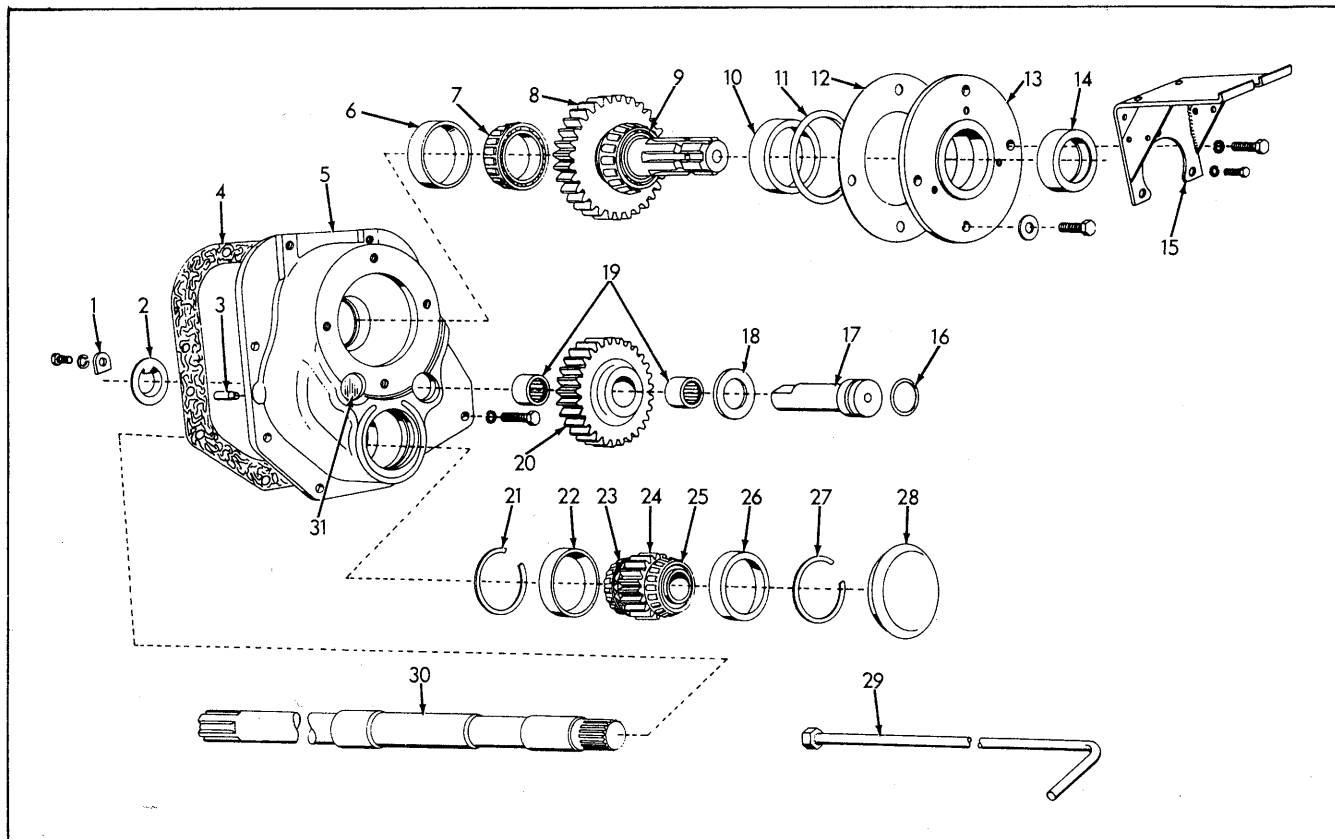
POWER TAKE-OFF SHAFT & GEARS (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
15	228748	*	RING, snap bearing, idler shaft, .069"	*Select one
	228749	*	RING, snap bearing, idler shaft, .073"	
	228750	*	RING, snap bearing, idler shaft, .077"	
	228751	*	RING, snap bearing, idler shaft, .081"	
	239384	*	RING, snap bearing, idler shaft, .083"	
	228752	*	RING, snap bearing, idler shaft, .085"	
	239385	*	RING, snap bearing, idler shaft, .087"	
	228753	*	RING, snap bearing, idler shaft, .089"	
	239386	*	RING, snap bearing, idler shaft, .091"	
	228754	*	RING, snap bearing, idler shaft, .093"	
	239387	*	RING, snap bearing, idler shaft, .095"	
	228755	*	RING, snap bearing, idler shaft, .097"	
	239388	*	RING, snap bearing, idler shaft, .099"	
	228756	*	RING, snap, bearing, idler shaft, .101"	
	239389	*	RING, snap bearing, idler shaft, .103"	
	228757	*	RING, snap bearing, idler shaft, .105"	
	239390	*	RING, snap bearing, idler shaft, .107"	
	228758	*	RING, snap bearing, idler shaft, .109"	
			(*Use as required)	
16	228155	1	SHAFT, idler	
17	231660	1	GEAR, idler (Shuttle clutch)	
	227581	1	GEAR, idler (Power director)	
18	230740	1	SPACER, idler shaft	
19	227684	1	BUSHING, P. T. O. shaft	



P. T. O. SHIFTER

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	227682	1	INSERT, shifter fork	
2	232484	1	ARM, P. T. O. shifter	
		1	915400 PIN, groove	
3	232984	1	O-RING	
4	234157	1	LEVER ASSY.	
5	228628	1	SPRING, detent	
		1	905360 BALL	



POWER TAKE-OFF
H-3 & HD-3 Tractors

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	206552	1	LOCK, idler shaft 1 904206 LOCKWASHER 1 903628 CAPSCREW	
2	224867	1	SPACER, idler shaft	
3	202532	2	PIN, dowel P. T. O. housing	
4	233246	1	GASKET, P. T. O. to Trans. Hsg.	
-	0247680-2	1	HOUSING ASSY. (Incl. Items 1,2,5 to 14,16 to 28,30,31)	
5	234596	1	HOUSING, P. T. O. 1 921122 CAPSCREW 2 920583 CAPSCREW 5 920574 CAPSCREW 8 904208 LOCKWASHER	
6	230068	1	CUP, bearing, driven gear (front)	
7	228509	1	CONE, bearing, driven gear (front)	
8	{ 234602	1	SHAFT W/GEAR (Power Director)	
	{ 234615	1	SHAFT W/GEAR (Shuttle Clutch)	
9	222214	1	CONE, bearing, driven gear (rear)	
10	209987	1	CUP, bearing, driven gear (rear)	
11	234605	1	O-RING, bearing, carrier	

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POWER TAKE-OFF (Cont'd)
H-3 & HD-3 Tractors

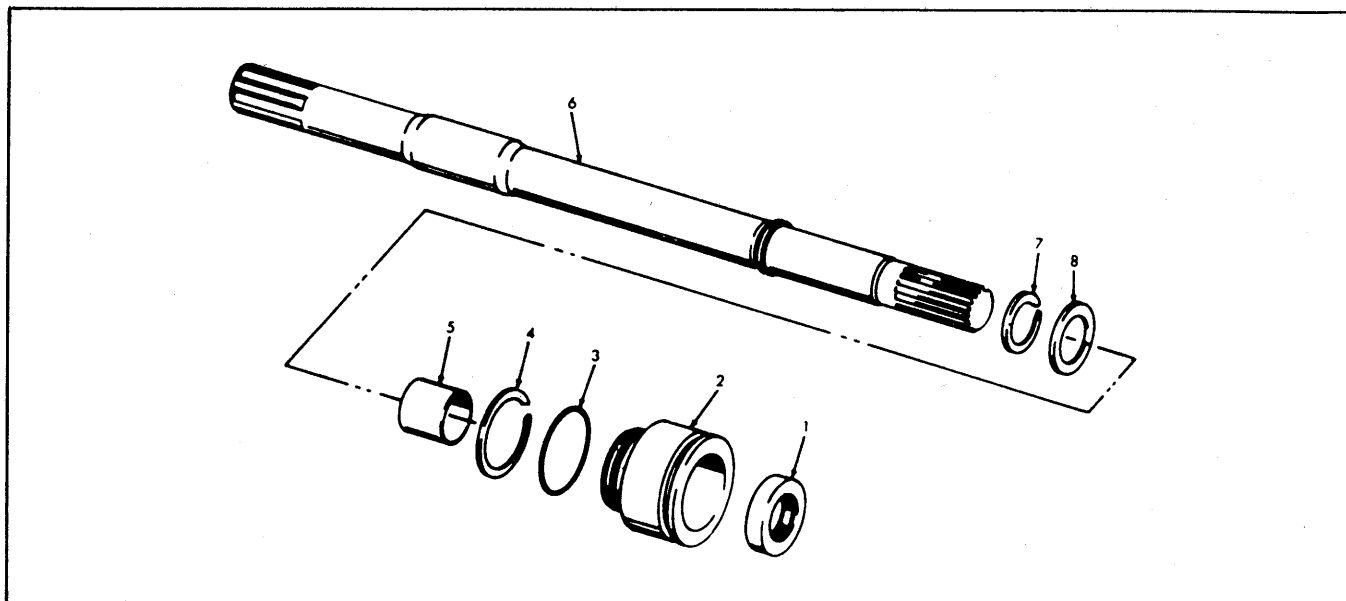
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
12	234603	*	SHIM, .005" (*As required)	
	0234604-7	*	SHIM, .010" (*As required)	
13	234606	1	CARRIER, bearing	
		4	920574 CAPSCREW	
		1	908191 WASHER, copper	
		3	904208 LOCKWASHER	
14	0241779-8	1	SEAL, oil, bearing carrier (replaces 230608)	
15	234611	1	GUARD ASSY., P.T.O.	
		3	903775 CAPSCREW	
		3	904206 LOCKWASHER	
16	234599	1	O-RING, idler shaft	
17	234600	1	SHAFT, idler	
18	223743	1	WASHER, thrust, idler shaft	
19	241379	2	BEARING, needle, idler gear	
20	234597	1	GEAR ASSY., idler (Incl. item 19)	
	0236325-7	*	RING, snap, .061" (replaces 229316)	
	0236328-1	*	RING, snap, .065" (replaces 229317)	
	0236298-6	*	RING, snap, .069" (replaces 229318)	
	0236299-4	*	RING, snap, .073" (replaces 229319)	
	0236302-6	*	RING, snap, .075" (replaces 239392)	
	0236300-0	*	RING, snap, .077" (replaces 229320)	
	0239393-2	*	RING, snap, .079"	
	0236301-8	*	RING, snap, .081" (replaces 229321)	
	0239394-0	*	RING, snap, .083"	
21	0236302-6	*	RING, snap, .085" (replaces 229322)	
	0239395-7	*	RING, snap, .087"	
	0236303-4	*	RING, snap, .089" (replaces 229323)	
	0239396-5	*	RING, snap, .091"	
	0236304-2	*	RING, snap, .093" (replaces 229324)	
	0239397-3	*	RING, snap, .095"	
	0236305-9	*	RING, snap, .097" (replaces 229325)	
	0239398-1	*	RING, snap, .099"	
	0239399-9	*	RING, snap, .103"	

*Select one

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POWER TAKE-OFF (Cont'd)
H-3 & HD-3 Tractors

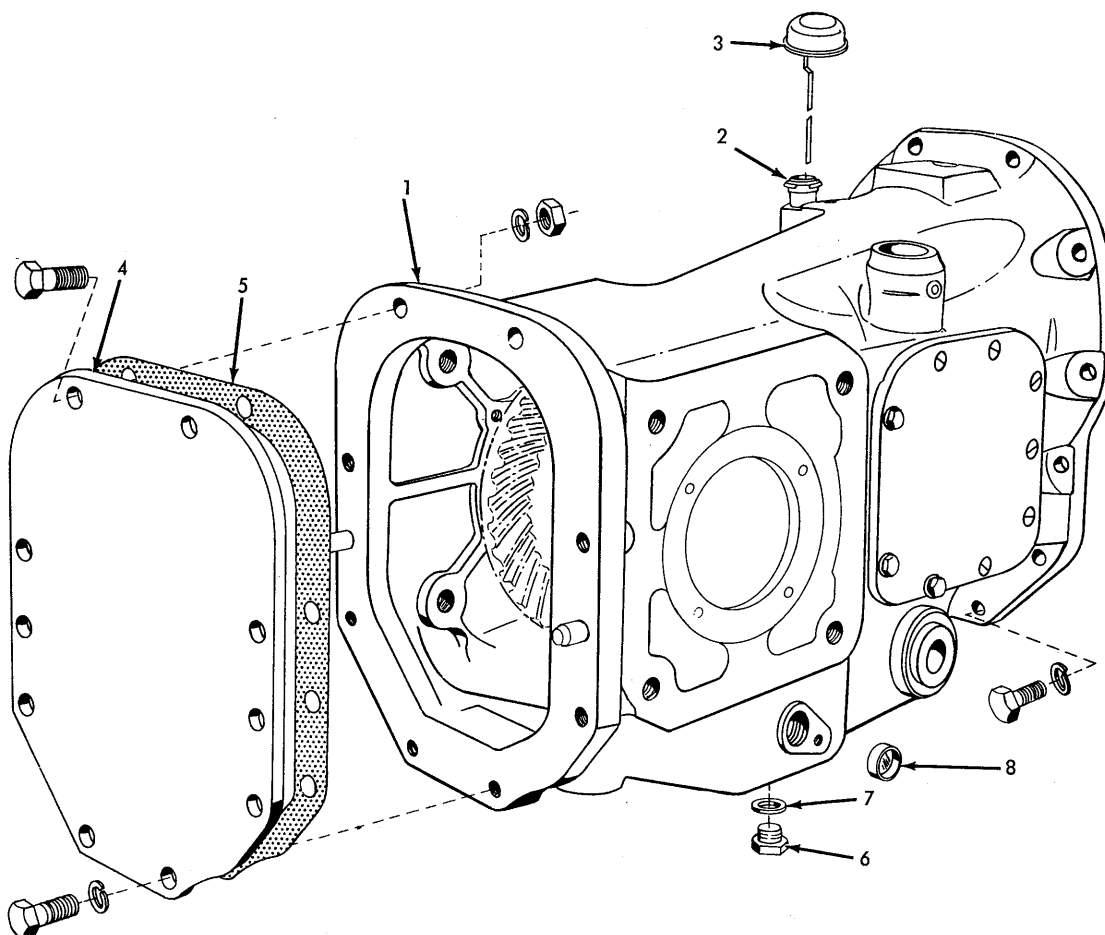
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
22	234607	1	CUP, bearing, drive gear front	
23	234608	1	CONE, bearing, drive gear front	
24	234610	1	GEAR, drive	
25	235439	1	CONE, bearing, drive gear rear	
26	235440	1	CUP, bearing, drive gear rear	
27	227598	1	RING, snap rear bearing	
28	229116	1	CAP, bearing	
29	234612	1	WRENCH ASSY., P.T.O. plug	
30	234609	1	SHAFT, P.T.O. drive	
31	234601	1	PLUG	



REAR WINCH DRIVE SHAFT

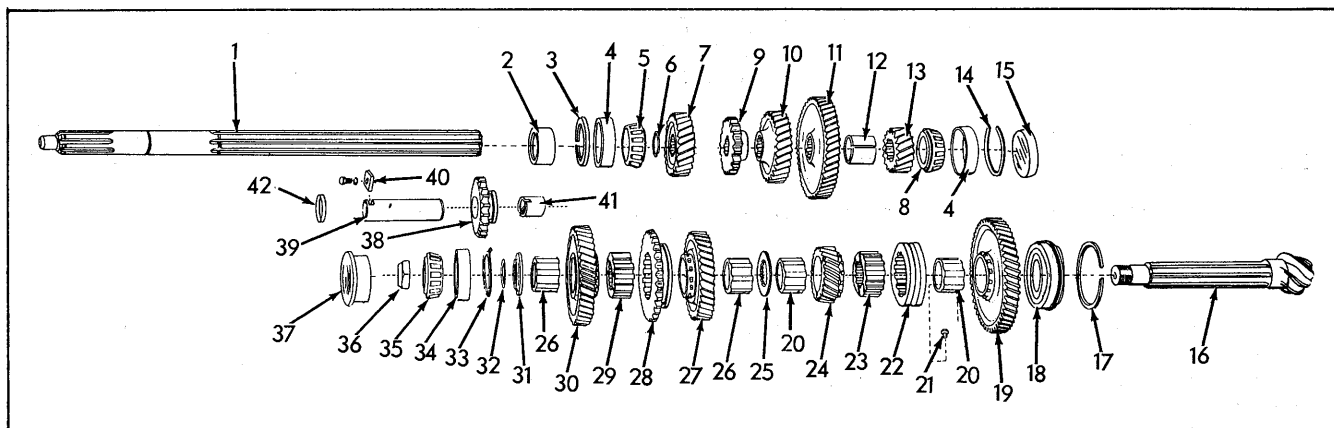
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	241779	1	SEAL, oil	
2	250530	1	RETAINER ASSY., (Incl. BUSHING)	
		1	923583 O-RING	
3	228539	1	O-RING	
4	222455	1	RING, snap	
5	248164	1	BUSHING, (Incl. in Item 2)	
6	244962	1	SHAFT, winch drive	
7	202329	1	SNAP RING	
8	246637	1	WASHER, thrust	

MEMO



TRANSMISSION & HOUSING

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234099	1	HOUSING ASSY., transmission & differential (Incl. PTO BUSHING)	
			10 920583 CAPSCREW	
			2 920582 CAPSCREW	
			12 904208 LOCKWASHER	
2	232535	1	TUBE ASSY., oil filler	
3	232540	1	CAP ASSY., w/dipstick	
	244963	1	COVER, transmission (w/ Winch)	
	234018	1	COVER, transmission rear (w/o Winch)	
4			6 916311 CAPSCREW	
			2 919231 CAPSCREW	
			8 904208 LOCKWASHER	
			2 910325 NUT	
5	233246	1	GASKET, transmission rear cover	
6	225389	1	PLUG, drain (1st type)	
	225441	1	PLUG, drain (Magnetic) (2nd type)	
7	226012	1	GASKET, drain plug	
8	231128	1	PLUG	



TRANSMISSION SHAFTS & GEARS

* Shuttle Clutch

** Power Director

ITEM	PART NUMBER	QTY.		DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**		
1	228276	1	1	SHAFT, main	
2	235847	1	1	SEAL, oil (Supersedes 2-228277)	
3	-----	1	1	RING, snap (one of Item 14)	
4	241380	2	2	CUP, bearing, main shaft, front	
5	230666	1	1	CONE, bearing, main shaft, front	
6	230223	1	1	RING, snap, main shaft, front	
7	233999	1	1	GEAR, main shaft, second	
8	209985	1	1	CONE, bearing	
9	{ 234028	-	1	GEAR, main shaft, reverse	
	{ 234000	1	-	SPACER, main shaft	
10	225413	1	1	GEAR, main shaft, third	
11	234001	1	1	GEAR, main shaft, fourth	
12	{ 234000	1	-	SPACER, main shaft (Shuttle clutch Tr. Eff. w/ S/N 7623)	
	{ 228347	1	1	SPACER, main shaft, long (Shuttle clutch Tr. prior to S/N 7623)	
13	{ 225415	1	-	GEAR, main shaft, first (Used prior to Tr. S/N 7623)	
	{ 241256	1	-	GEAR, main shaft, first (Eff. w/Tr. S/N 7623 & up)	
	{ 234029	-	1	GEAR, main shaft, first	

Continued

TRANSMISSION SHAFTS & GEARS (Cont'd)

* Shuttle Clutch

** Power Director

ITEM	PART NUMBER	QTY.		DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**		
14	228279	*	*	RING, snap, bearing retainer .100"	
	228280	*	*	RING, snap, bearing retainer .105"	
	228281	*	*	RING, snap, bearing, retainer .110"	
	228282	*	*	RING, snap, bearing retainer .115"	
	228283	*	*	RING, snap, bearing retainer .120"	
	228284	*	*	RING, snap, bearing retainer .125"	
	228285	*	*	RING, snap, bearing retainer .130"	
	228286	*	*	RING, snap, bearing retainer .135"	
				(* Use as required)	
15	228287	1	1	CUP, oil, main shaft	
16	-----	1	1	SHAFT, bevel pinion (Incl. PINION) (Use Kit No. 1003784-4)	
17	232253	*	*	RING, snap rear bearing cup, .060"	
	232254	*	*	RING, snap rear bearing cup, .063"	
	232255	*	*	RING, snap rear bearing cup, .066"	
	232256	*	*	RING, snap rear bearing cup, .069"	
	232257	*	*	RING, snap rear bearing cup, .072"	
				(*Use as required)	
18	241492	1	1	BEARING ASSY., (Supersedes 232252)	
19	234405	1	-	GEAR, pinion shaft, first (Used prior to Tr. S/N 7623)	
	241381	1	-	GEAR, pinion shaft, first (Eff. w/Tr. S/N 7623 & up)	
	233998	-	1	GEAR, pinion shaft, first	
20	227317	2	2	BUSHING, pinion shaft, rear	
21	225404	4	4	PIN, pinion shaft bushing	
22	228295	1	1	COUPLING, pinion shaft	
23	225834	1	1	COLLAR, splined	
24	234005	1	1	GEAR, pinion shaft, fourth	
25	225403	1	1	SPACER, pinion, shaft	
26	227316	2	2	BUSHING, pinion shaft, front	
27	233997	1	1	GEAR, pinion shaft, third	

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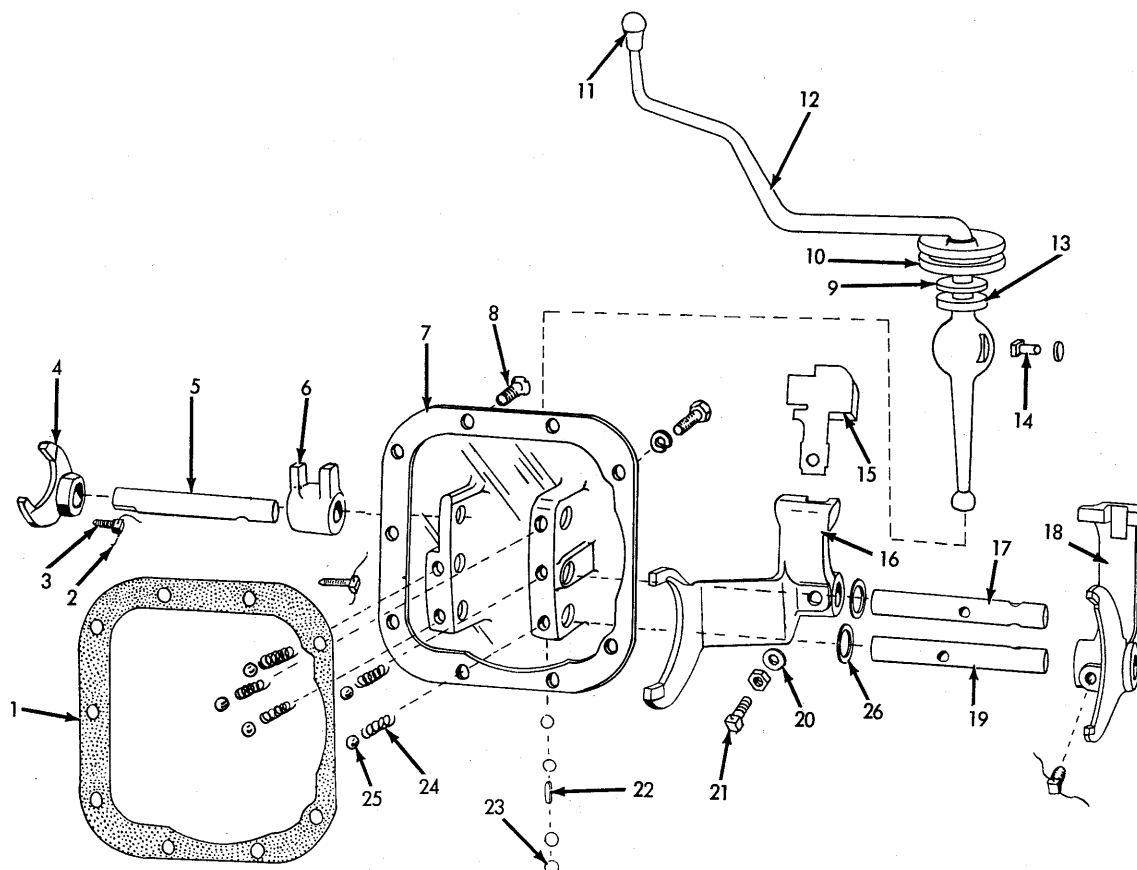
TRANSMISSION SHAFTS & GEARS (Cont'd)

* Shuttle Clutch

** Power Director

ITEM	PART NUMBER	QTY.		DESCRIPTION
		*	**	
28	241372	1	-	COUPLING, pinion shaft (Eff. w/Tr. S/N 7623)
	234070	1	-	COUPLING, pinion shaft (Used prior to Tr. S/N 7623)
	241367	-	1	GEAR, pinion shaft (Supersedes 234004)
29	228291	1	1	COLLAR, splined
30	234003	1	1	GEAR, pinion shaft, second
31	225402	1	1	WASHER, thrust
32	225399	*	*	SHIM, pinion shaft .010"
	225400	*	*	SHIM, pinion shaft .005"
	232248	*	*	SHIM, pinion shaft .006"
	232249	*	*	SHIM, pinion shaft .008"
33	232245	1	1	RING, snap, front bearing
34	235438	1	1	CUP, bearing, front
35	232247	1	1	CONE, bearing, front
36	225449	1	1	NUT, bearing, adjusting
37	232243	1	1	PLUG, pinion shaft bearing
38	225425	-	1	GEAR ASSY., reverse idler (Incl. BUSHING)
39	228304	-	1	SHAFT, reverse idler
40	206552	-	1	PLATE, lock idler shaft
				1 903628 CAPSCREW
				1 904206 LOCKWASHER
41	-----	-	1	BUSHING, reverse idler gear (serviced only in Assy., Item 39)
42	230318	1	-	PLUG, reverse idler shaft

(* Use as required)



TRANSMISSION GEAR SHIFT

* Shuttle Clutch

** Power Director

ITEM	PART NUMBER	QTY.		DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**		
1	228307	1	1	GASKET, control cover	
2	-----	3	4	WIRE, lock, shift fork & lug set screw (Use 18" of 910815 for each)	
3	225440	2	3	SETSCREW, shift fork & lug	
4	236459	-	1	FORK, shift, reverse gear (Supersedes 225439)	
5	234009	1	-	ROD, shift, reverse gear (Used prior to Tractor Serial No. 1490)	
	225436	-	1	ROD, shift, reverse gear	
6	225407	1	1	LUG, reverse shift rod	
7	232302	1	1	COVER, control	
8	212785	1	1	SCREW, control cover	
	233097	1	1	SCREW, control cover	

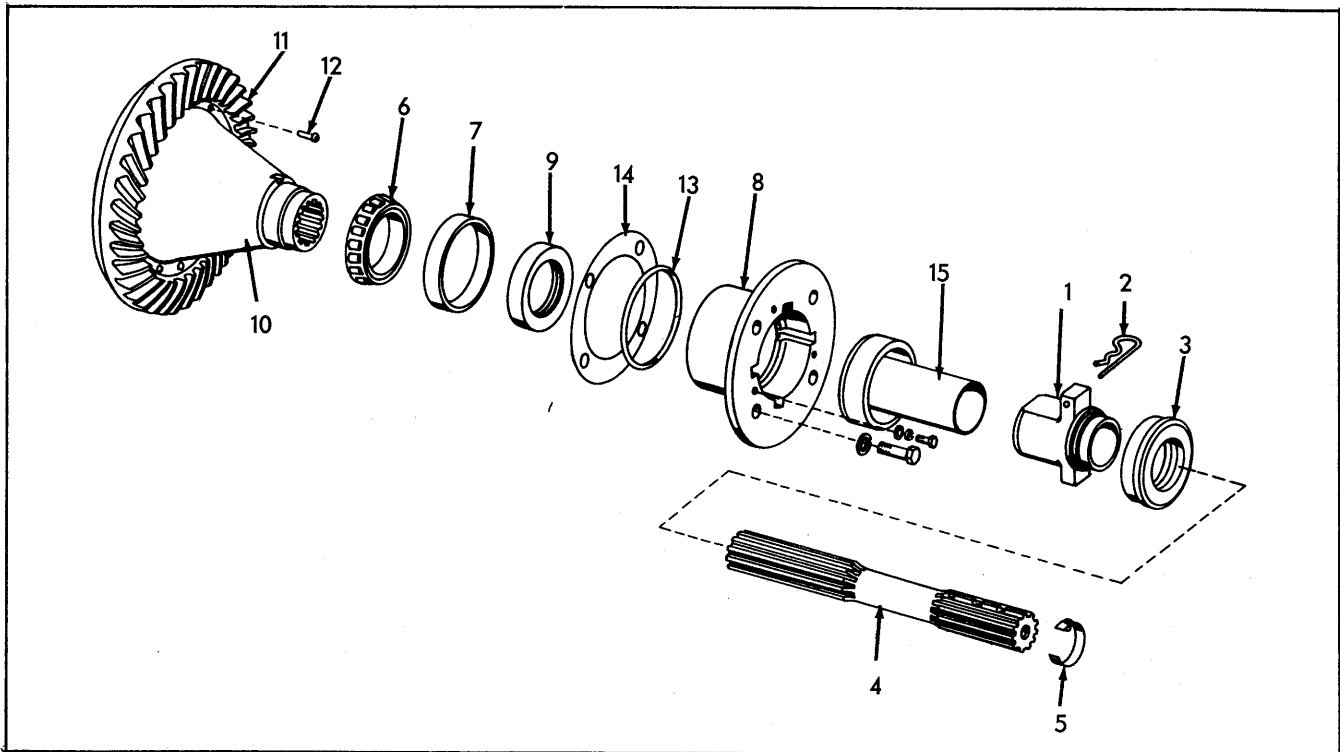
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TRANSMISSION GEAR SHIFT (Cont'd)

*Shuttle Clutch

**Power Director

ITEM	PART NUMBER	* QTY.	**	DESCRIPTION
9	202875	1	1	RING, snap, shift lever pivot washer
10	232192	1	1	COVER, dust, shift lever socket
11	226023	1	1	KNOB, shift lever
12	{ 235600	1	-	LEVER, gear shift (Used prior to Serial No. 1490)
	{ 234014	1	1	LEVER, gear shift (Eff. w/Tractor Serial No. 1490 and up)
13	207772	1	1	WASHER, shift lever
14	203465	2	2	PIN, pivot shift lever
			1 911006	PLUG, expansion
15	229804	1	1	BAFFLE, oil fork
16	234027	1	1	FORK, shift, 2nd & 3rd
17	{ 234008	1	-	ROD, shift, 2nd & 3rd
	{ 226027	-	1	ROD, shift, 2nd & 3rd
18	{ 235630	1	-	FORK, shift, 1st & 4th (Eff. w/Tractor Serial No. 1813 and up Shuttle Clutch only)
	{ 225838	1	1	FORK, shift, 1st & 4th
19	225837	1	1	ROD, shift, 1st & 4th
20	229831	-	1	WASHER, 2nd & 3rd fork
21	224513	1	1	SETSCREW, 2nd & 3rd fork
			1 919086	NUT
22	206049	-	1	PIN, interlock, shift rod
23	905360	4	4	BALL, interlock, shift rod
24	224925	4	5	SPRING, detent, shift rod
25	905360	4	5	BALL, detent, shift rod
26	227195	*	-	WASHER, shift rod (*Use as required)



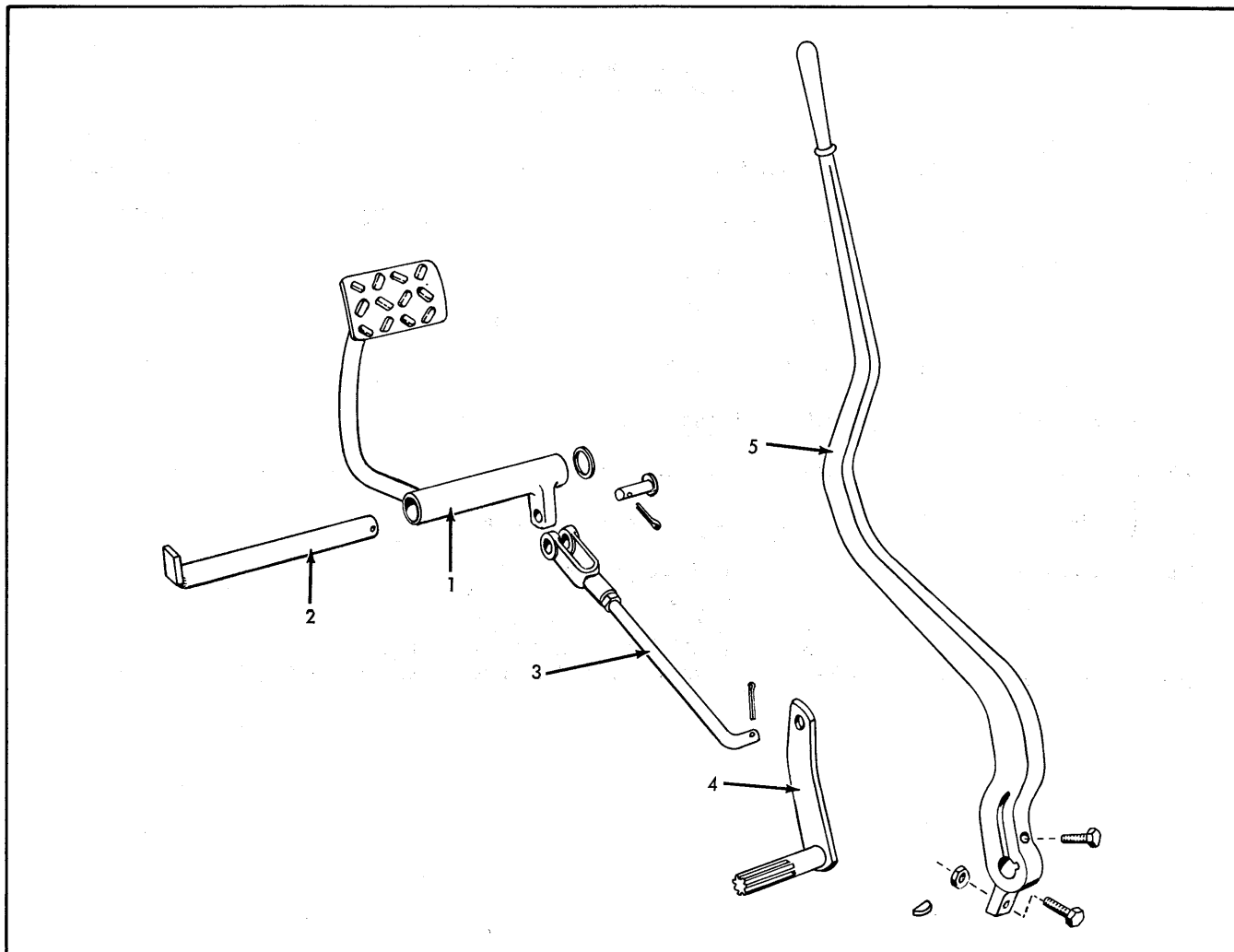
DRIVE SHAFT & RING GEAR
R.H. Side Shown

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	233892	2	CARRIER, bearing, clutch release	
2	225152	2	PIN, quick hitch	
3	233893	2	BEARING, clutch release	
4	0252653-1	2	SHAFT, drive (Replaces 233905)	
5	233906	2	RETAINER ASSY., drive shaft	
6	234011	2	CONE, bearing	
7	234010	2	CUP, bearing	
8	234012	2	RETAINER, carrier bearing	
		8	916191 CAPSCREW	
		8	904207 LOCKWASHER	
9	234013	2	SEAL, oil	
10	{ 241759	1	CARRIER, ring, gear (Eff. w/Tr. S/N 7653)	
	{ 237245	1	CARRIER, ring, gear (Supersedes 234016) (Used prior to Tr. S/N 7653)	
11	{ -----	1	GEAR, ring (Eff. w/Tr. S/N 7653) (Use Kit No. 1003784-4)	
	{ 234808	1	GEAR, ring (Used prior to Tr. S/N 7653)	

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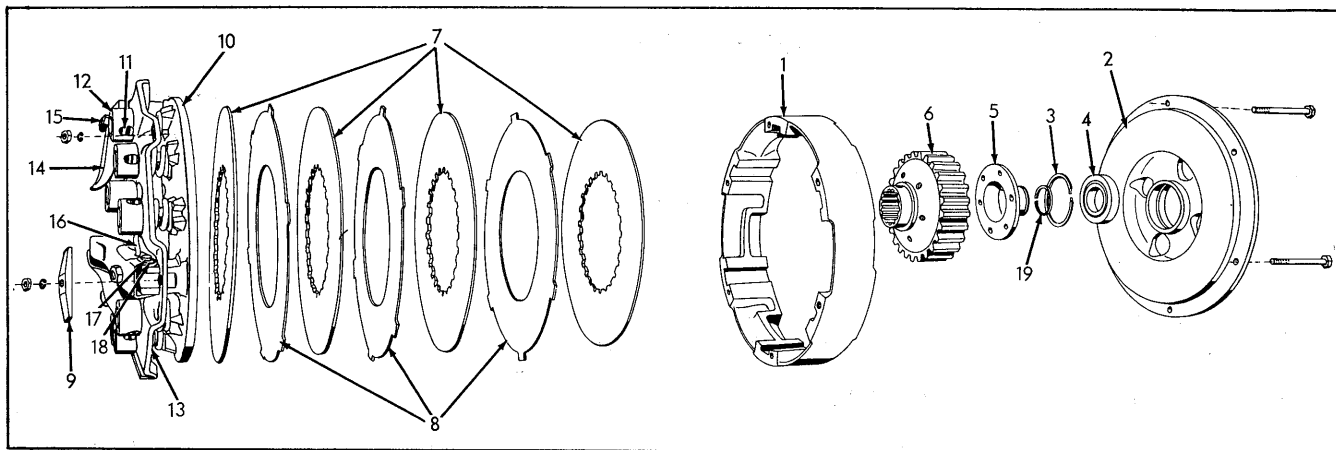
DRIVE SHAFT & RING GEAR
R.H. Side Shown

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
12	-----	12	BOLT, ring gear (Eff. w/Tr. S/N 7653)	241756
	233200	12	BOLT, ring gear, w/out nut (Used prior to. Tr. S/N 7653)	233199
		1	919443 NUT	
13	227563	2	PACKING, O-Ring	
14	224747	*	SHIM, retainer, carrier bearing	} *Use as required
	206579	*	SHIM, retainer, carrier bearing	
	206581	*	SHIM, retainer, carrier bearing	
15	234050	2	SLEEVE ASSY., clutch shifter	
		3	916284 CAPSCREW	
		3	911114 WASHER	
		3	904209 LOCKWASHER	
16	237246	2	SLEEVE, wear (Located on both sides of item 10)	



BRAKE PEDALS & STEERING CLUTCH LEVER

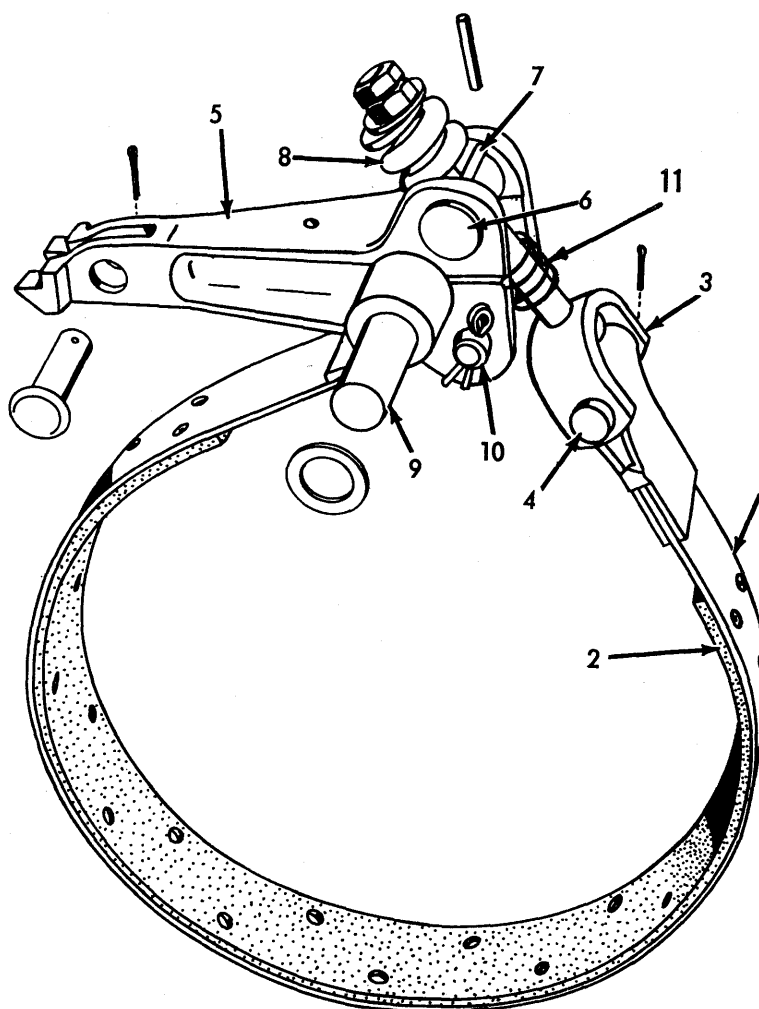
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	233825	1	PEDAL, brake, L.H.	
	233830	1	PEDAL, brake, R.H.	
2	233831	2	SHAFT, brake pedal	
		1	919390 WASHER	
		1	900808 PIN, cotter	
3	233834	2	ROD, brake	
		1	917666 YOKE, rod end	
		1	913177 NUT, jam	
		1	917648 PIN, yoke	
		2	900806 PIN, cotter	
		2	912233 WASHER, plain	
4	233821	1	SHAFT ASSY., L.H.	
	233824	1	SHAFT ASSY., R.H.	
	234339	1	LEVER, clutch hand L.H.	
	234340	1	LEVER, clutch hand R.H.	
5		1	905850 KEY	
		1	921525 CAPSCREW	
		1	910507 CAPSCREW	
		1	913744 NUT, jam	



ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	0254685-1	2	CLUTCH ASSY., steering (Replaces 233879)	
1	0252552-5	2	DRUM, brake (Replaces 233880)	
2	0252551-7	2	FLYWHEEL, clutch (Replaces 233881)	
		3	0918062-1 CAPSCREW (Replaces 921077)	
		3	0926696-6 NUT (Replaces 919441)	
3	233882	2	RING, snap	
4	233883	2	BEARING, pilot	
5	233884	2	PILOT, bearing	
		6	915813 CAPSCREW	
		6	904205 LOCKWASHER	
6	233885	2	HUB, driving, disc.	
7	233887	8	DISC, driving	
	1003719-0	8	DISC, driving (Used w/233717)	
8	233886	6	DISC, driven	
9	0252546-7	6	CLAMP, pressure plate (Replaces 233890)	
		3	0926153-8 CAPSCREW (Replaces 921321)	
		3	0926696-6 NUT (Replaces 910323)	
10	230423	2	PLATE, pressure	
	233888	2	PLATE ASSY., pressure (Incl. items 11 thru 18 & SEAT & CLIP)	
11	233889	18	SPRING, pressure	
12	234073	18	CUP, spring	
13	230428	2	PLATE ASSY., back (Incl. SEAT)	
14	230380	6	LEVER, release	

STEERING CLUTCH (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
15	229601	6	SCREW, adjusting 3 910876 NUT	
16	230361	6	SPRING, lever	
17	229603	6	PIN, lever 3 900802 PIN, cotter	
18	229814	6	WASHER, spring	
19	229285	2	RING, snap pilot bearing	



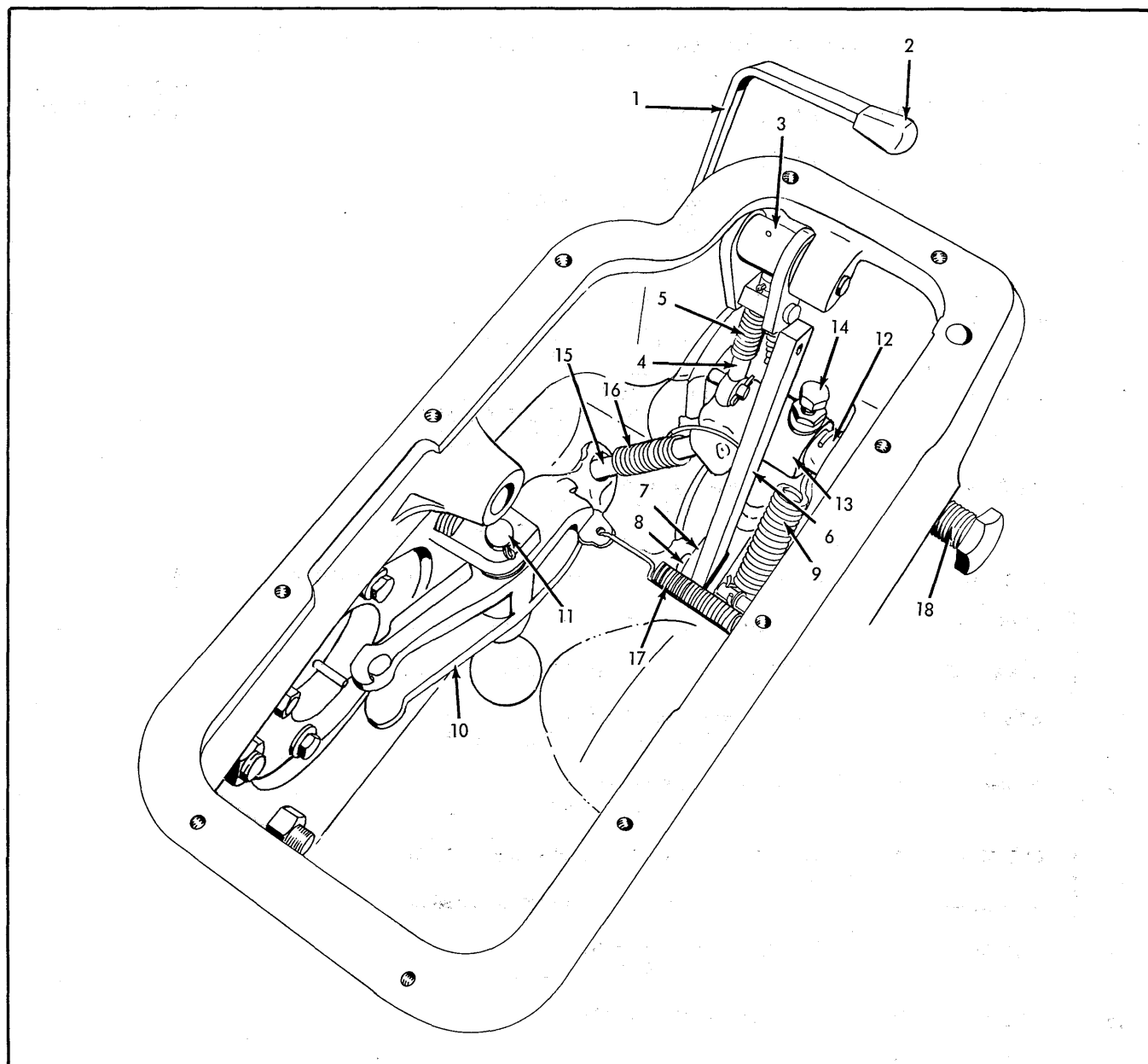
BRAKE BAND & ARM

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	1003881-8	2	BAND ASSY., brake (Incl. Item 2) (Replaces 240876)	
2	0240877-1	2	LINING, brake	240878
3	233807	2	YOKE ASSY. (Incl. BOLT) 1 913744 NUT, jam 1 916951 NUT 1 917379 WASHER	
4	233810	2	PIN, yoke 1 900938 PIN, cotter	
5	233811	2	ARM, brake 1 921373 PIN, link 1 900938 PIN, cotter	
6	233812	2	PIN, yoke, brake arm	
7	233813	2	PLATE, lock	
8	233814	2	SPRING	

Continued

BRAKE BAND & ARM (Cont'd.)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
9	233815	2	SHAFT, brake anchor	
		3	915714 WASHER, plain	
		1	916937 PIN, roll	
10	233816	2	PIN, brake arm	
		1	900938 PIN, cotter	
	1003885-9	2	SPRING	



BRAKE LINKAGE & CLUTCH SHIFTER

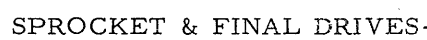
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	233844	1	LEVER ASSY., brake latch, L.H.	
	233847	1	LEVER ASSY., brake latch, R.H.	
2	229816	2	KNOB, lever brake latch	
3	233843	1	LATCH ASSY., brake, R.H.	
	233838	1	LATCH ASSY., brake, L.H.	
		1	916936 PIN, roll	

Continued

BRAKE LINKAGE & CLUTCH SHIFTER (Cont'd.)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
4	233836	2	ROD, end	
		1	921894 PIN, pivot	
		1	900806 PIN, cotter	
		1	918994 WASHER, plain	
		1	904001 PIN, cotter	
5	233837	2	SPRING, rod end	
6	233817	2	LINK	
		1	921373 PIN, link	
		1	900938 PIN, cotter	
7	233818	2	LEVER, brake link	
		1	904208 LOCKWASHER	
		1	904541 CAPSCREW	
8	233819	2	PIN, brake lever	
		2	900938 PIN, cotter	
		1	912007 WASHER, plain	
9	240356	2	SPRING, brake return (Supersedes 233820 and 236855)	
10	0236882-7	1	FORK, clutch, R.H. (Replaces 233895)	
	0236881-9	1	FORK, clutch, L.H. (Replaces 233894)	
11	233896	2	PIN, pivot clutch fork	
		1	900808 PIN, cotter	
12	233897	2	SHAFT, hand lever	
		1	905125 KEY, woodruff	
13	0236877-7	1	LEVER, fork, L.H. (Replaces 233898)	
	0236878-5	1	LEVER, fork, R.H. (Replaces 233899)	
14	235403	2	SETSCREW, fork lever	
		1	921893 NUT, jam	
15	233900	2	STILT, shifter clutch	
16	233901	2	SPRING, stilt	
17	233902	2	SPRING, fork return	
18	233907	2	SCREW, adjusting	
		1	910098 NUT, jam	

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SPROCKET & FINAL DRIVES

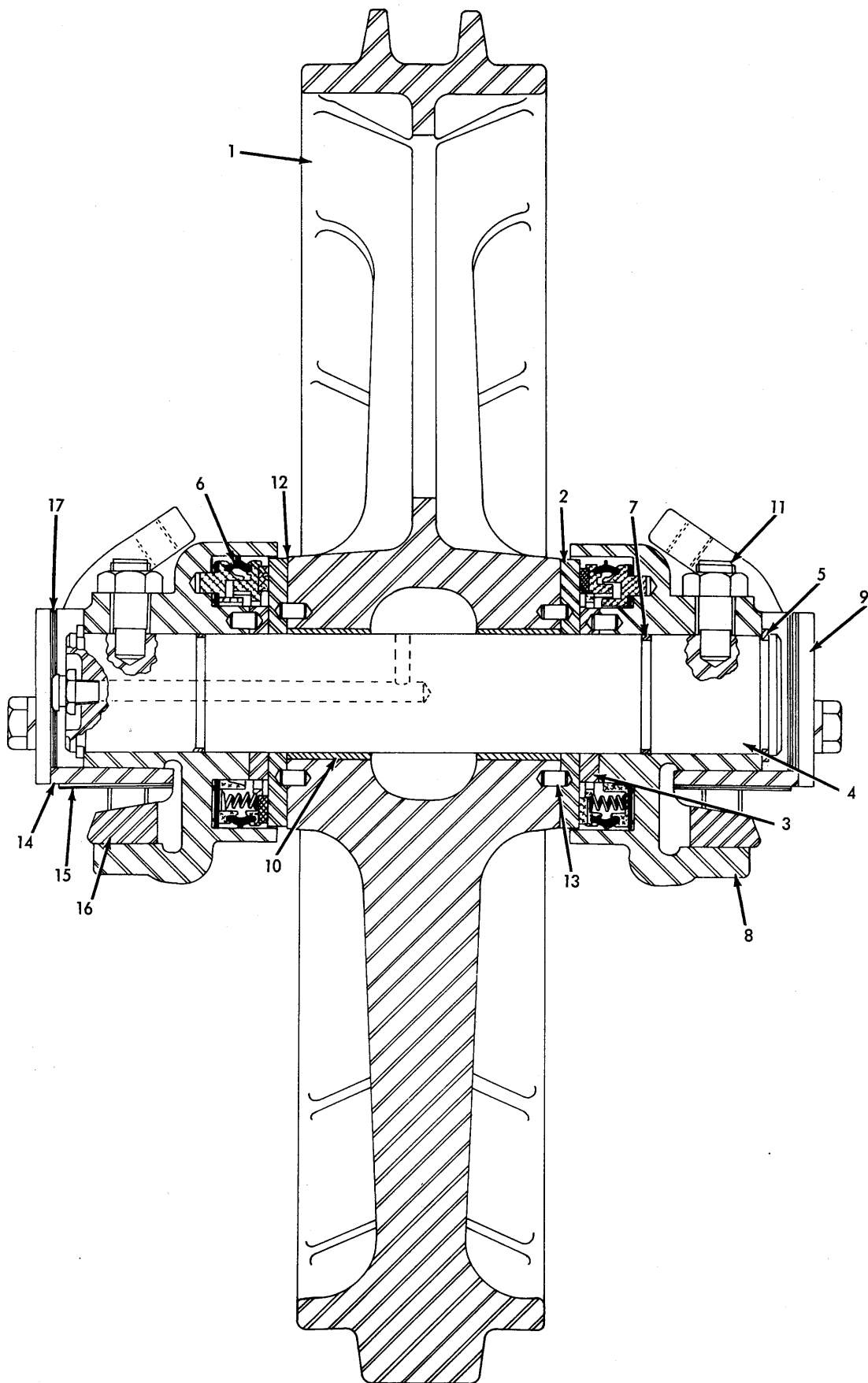
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	0254537-4	1	HOUSING, final drive, L.H. (Replaces 244785)	
	233712	1	HOUSING, final drive, L.H. (Used prior to Tr. S/N 8718)	
	0254536-6	1	HOUSING, final drive, R.H. (Replaces 244786)	
	233713	1	HOUSING, final drive, R.H. (Used prior to Tr. S/N 8718)	
		2	912078 CAPSCREW	
2	233717	1	SHAFT, pinion	
		6	921076 CAPSCREW	
		6	904206 LOCKWASHER	
3	229109	2	SEAL, oil	
4	209897	2	CUP, bearing	
5	0606897-3	2	CONE, bearing (Replaces 234956)	
6	227598	2	RING, snap internal	
7	227678	2	CUP, bearing	
8	222214	2	CONE, bearing	
9	233718	2	WASHER ASSY.	
		1	917947 PIN, roll	
10	227598	2	RING, snap, internal	
11	1003495-7	2	PLUG, final drive (Replaces 214284)	
12	916405	2	CAPSCREW	
		1	910543 LOCKWASHER	
13	218647	*	SHIM,* as required	
14	0923584-7	2	O-RING (Replaces 233721)	
15	0252151-6	2	AXLE, rear (Replaces 233748)	
	240191	2	AXLE, rear, (Eff. w/Tr. S/N 6927)	
16	239238	2	SEAL, oil	
17	4251113	2	CONE, bearing (Eff. w/Tr. S/N 8718 & up)	
	229110	2	CONE, bearing (Used prior to Tr. S/N 8718)	
18	202584	2	CUP, bearing (Eff. w/Tr. S/N 8718 & up)	
	209897	2	CUP, bearing (Used prior to Tr. S/N 8718)	
19	244787	2	SPACER, final drive gear (Eff. W/Tr. S/N 8718 & up)	
	233723	2	SPACER, final drive gear (Used prior to Tr. S/N 8718)	
20	1003412-2	2	GEAR, final drive (Replaces 233724)	

Continued

SPROCKET & FINAL DRIVES (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
21	229113	2	RING, snap external	
22	227598	2	RING, snap internal	
23	235440	2	CUP, bearing	
24	235439	2	CONE, bearing	
25	218647	*	SHIM (*as required)	
26	233718	2	WASHER & PIN ASSY. 1 917947 PIN, roll	
27	916405	2	CAPSCREW 1 910543 LOCKWASHER	
28	1003495-7	2	PLUG, final drive (Replaces 241284)	
29	0923584-7	2	O-RING (Replaces 233712)	
30	227598	2	RING, snap, internal	
31	240439	2	PAN, final drive (Supersedes 237180) 1 904260 PLUG 10 916269 CAPSCREW 10 904206 LOCKWASHER	
32	234964	2	PLUG ASSY., (Incl. RIVET) 1 900802 PIN, cotter	
33	233187	2	GASKET, pan	
34	227525	8	STUD 4 924008 NUT	
35	235839	2	SPROCKET, (54" tread) (Used prior to Tr. S/N 6729)	
	241059	2	SPROCKET, (54" tread)(Eff. w/Tr. S/N 6729 & up)	
	233726	2	SPROCKET, (48" tread std.)(Used prior to Tr. S/N 6729)	
	241058	2	SPROCKET, (48" tread std) (Eff. w/Tr. S/N 6729 & up)	
	244948	2	SPROCKET, (Full-Optional) (f/tractors 6729 & up)	
36	241032	16	CAPSCREW, (Eff. w/Tr. S/N 6729 & up)	
	235543	16	CAPSCREW, (Used prior to Tr. S/N 6729)	
37	233727	2	SPACER	
38	234539	2	PLUG, drain	
39	235948	2	GASKET, plug	
40	237047	2	RING, seal protector (Eff. w/Tr. S/N 3500 & up)	
	243156	2	RING, seal protector (Used prior to Tr. S/N 3500)	
41	241033	16	NUT, lock (Eff. W/Tr. S/N 6729 & up)	

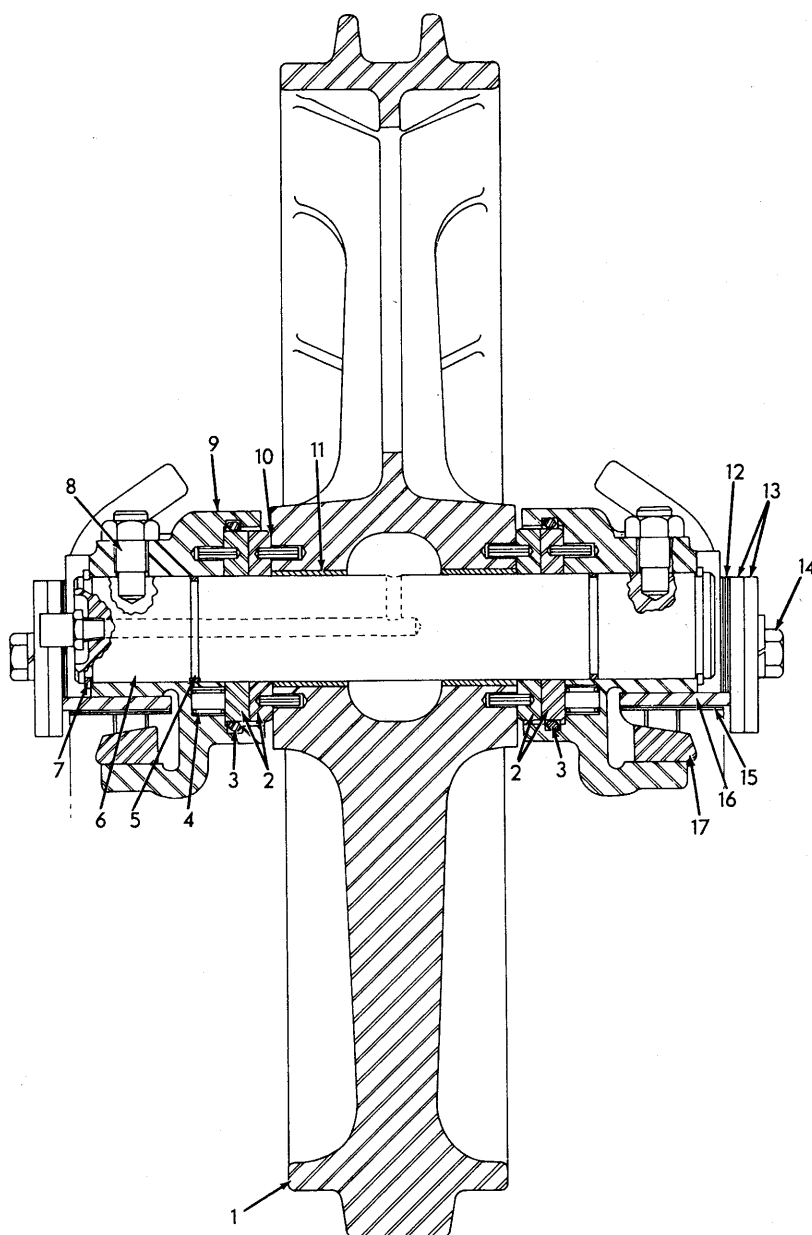
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TRACK IDLER (Used Prior to Tr. S/N 8298)

TRACK IDLER
Used Prior to Tr. S/N 8298

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	0252852-9	2	IDLER ASSY., (Incl. items 1 thru 8 & 10 thru 13) (Replaces 235347)	
1	0252161-5	2	IDLER ASSY., (Incl. item 10) (Replaces 233775)	
2	233778	4	WASHER, seal	
3	233779	4	WASHER, thrust	
4	233780	2	SHAFT 1 917600 FITTING, lube	
5	233781	4	RING, snap	
6	233782	4	SEAL, oil	
7	235713	4	O-RING	
8	233784	4	BRACKET	
9	235956	16	PLATE, (Eff. w/Tractor Serial No. 3466 & up)	
	233785	8	PLATE (Used prior to Tractor Serial No. 3466)	
		2	913717 CAPSCREW	
		2	904208 LOCKWASHER	
10	233777	2	BUSHING, idler	
11	233787	4	SCREW, special 2 910511 NUT, jam	
12	234212	4	GASKET	
13	234211	28	PIN	
14	233788	4	PLATE, wear 2 913137 CAPSCREW 2 904209 LOCKWASHER	
15	233789	16	SHIM	
16	233790	4	BLOCK, tapping	
17	233786	32	SHIM, (Used prior to Tractor Serial No. 3466)	
	235957	32	SHIM, (Eff. w/Tractor Serial No. 3466 and up)	



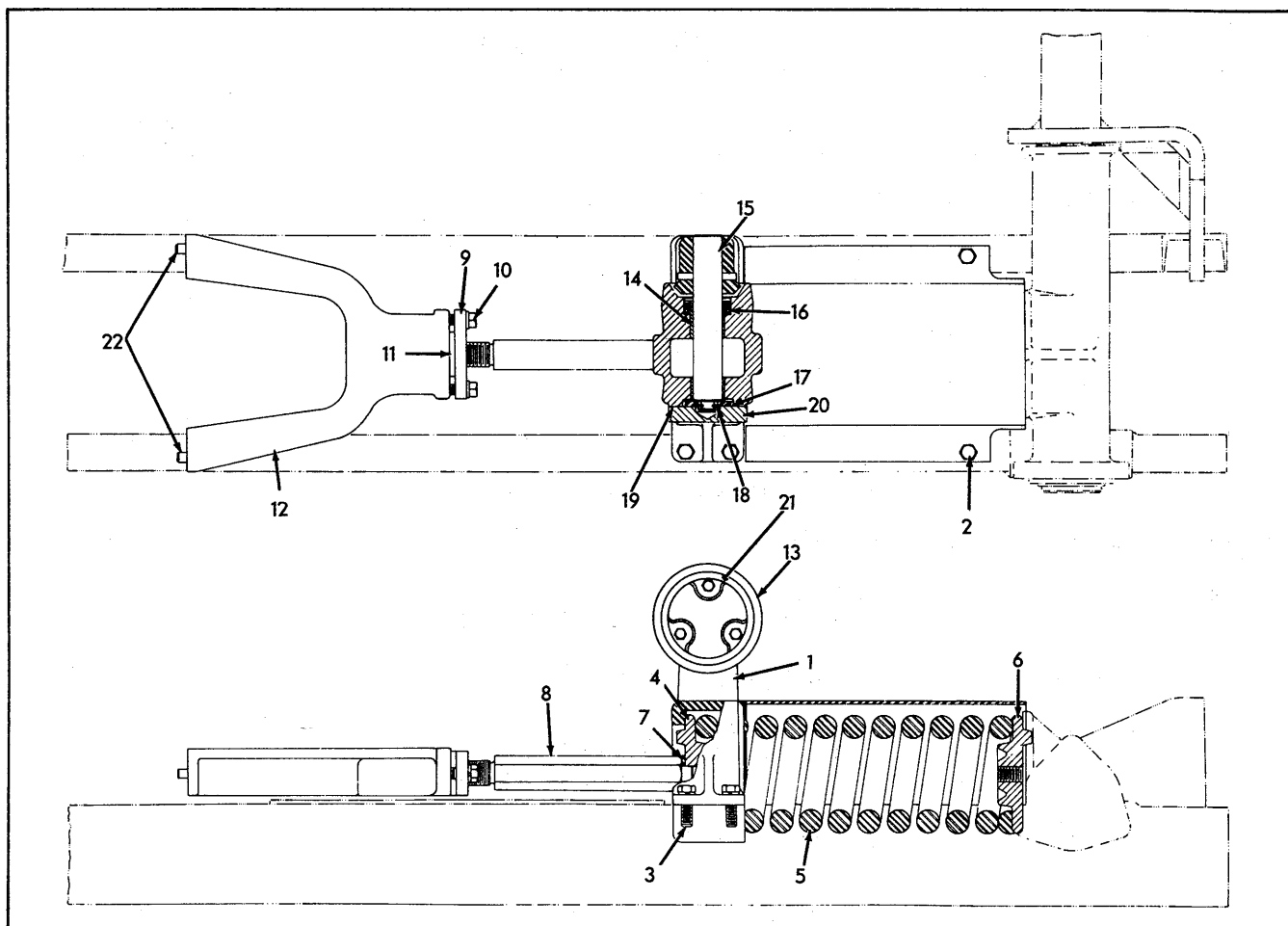
TRACK IDLER
Eff. w/Tr. S/N 8298

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	244450	2	IDLER ASSY., (Incls. items 1 thru 11)	
1	0252161-5	2	IDLER ASSY., (Incl. item 11) (Replaces 244433)	
2	244454	8	WASHER ASSY., seal	
3	244452	4	O-RING, seal washer	
4	226304	16	SPRING	
5	235713	4	O-RING	
6	233780	2	SHAFT	
		1	917600 FITTING, lube	

Continued
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TRACK IDLER (Cont'd)
Eff. w/Tr. S/N 8298

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
7	233781	4	RING, snap, idler shaft	
8	233787	4	SCREW, special 2 910511 NUT, jam	
9	244427	4	BRACKET, idler	
10	244451	4	GASKET	
11	233777	4	BUSHING	
12	235957	*	SHIM .031 (Use as required)	
13	235956	16	PLATE	
14	915666	16	CAPSCREW 1 904208 LOCKWASHER	
15	233789	*	SHIM, (Use as required)	
16	233788	4	PLATE, wear 2 913137 CAPSCREW 2 904209 LOCKWASHER	
17	233790	4	BLOCK, tapping	



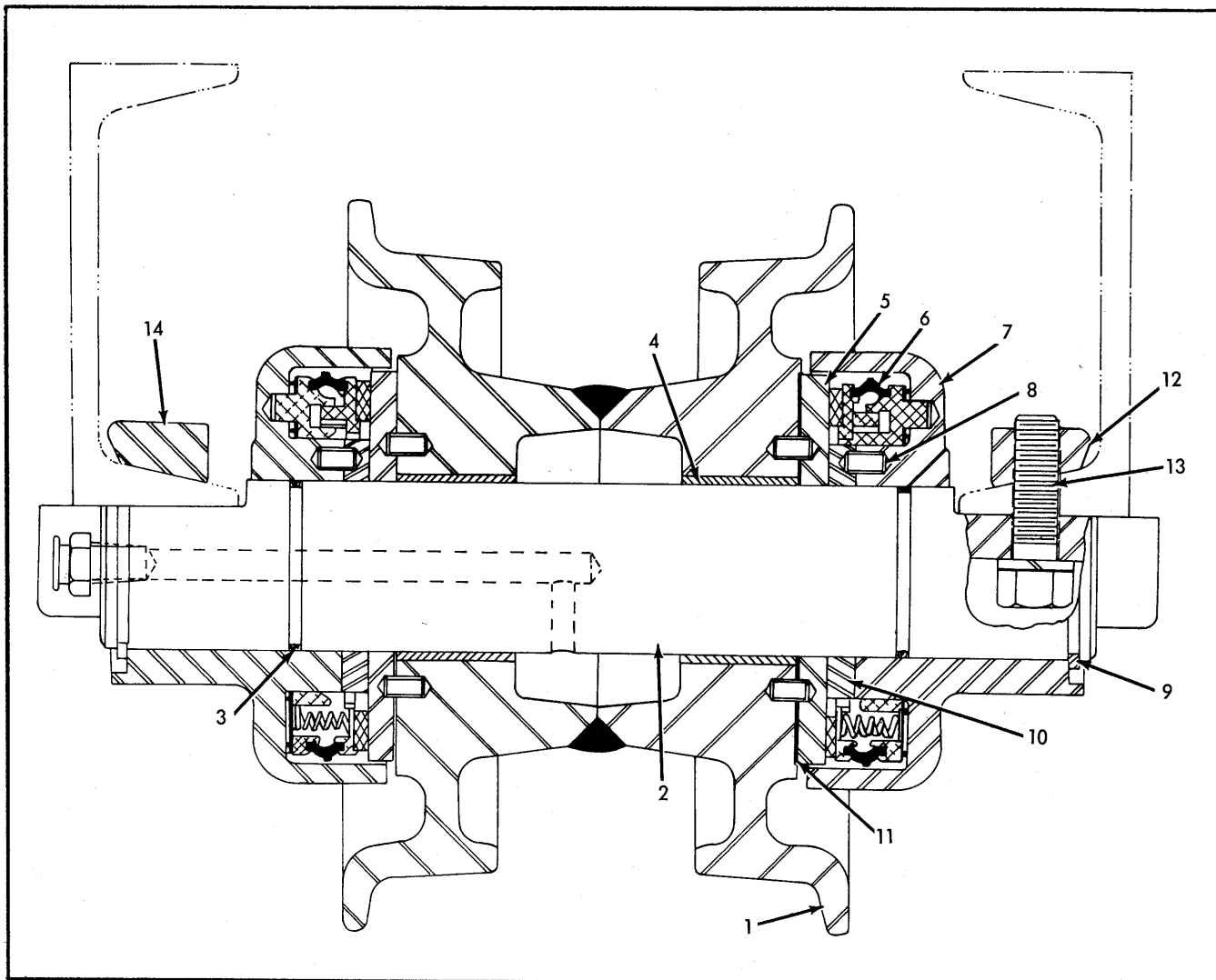
TRACK RELEASE & SUPPORT ROLLER

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	233968	1	HOUSING ASSY., spring, R.H. (Prior to Tr. S/N 3554)	
	237130	1	HOUSING ASSY., spring, R.H. (Eff. w/Tr. S/N 3554 & up)	
	233972	1	HOUSING ASSY., spring, L.H. (Used prior to Tr. S/N 3554)	
	237129	1	HOUSING ASSY., spring, L.H. (Eff. w/Tr. S/N 3554 & up)	
2	234940	4	CAPSCREW	
		3	917379 WASHER	
		2	904208 LOCKWASHER	
3	921753	8	CAPSCREW, (Supersedes 234942)	
		1	904208 LOCKWASHER	
4	233963	2	SEAT, spring, front (Std.)	
	242148	2	SEAT, spring, front (Heavy Duty)	

Continued

TRACK RELEASE & SUPPORT ROLLER (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
5	233964	2	SPRING, (std.)	
	242147	2	SPRING, (Heavy Duty)	
6	233965	2	SEAT, spring, rear (Std.)	
	242149	2	SEAT, spring, rear (Heavy Duty)	
7	231665	2	WASHER	
8	236986	2	SCREW, adjusting (Supersedes 233962) (Used prior to Tr. S/N 6989)	
	241062	2	SCREW, adjusting (Eff. w/Tr. S/N 6989 & up)	
9	234025	2	LOCK, adjusting screw (Used prior to Tr. S/N 6989)	
	241063	2	LOCK, adjusting screw (Eff. w/Tr. S/N 6989 & up)	
10	234941	4	CAPSCREW, lock 2 904208 LOCKWASHER	
11	241064	1	SEAL, adjusting screw (Eff. w/Tr. S/N 6989)	
	233961	1	SEAL, adjusting screw (Used prior to Tr. S/N 6989)	
12	241173	1	YOKE ASSY., (Eff. w/Tr. S/N 6989 & up) 1 910000 PLUG, expansion	
	233959	2	YOKE ASSY., (Used prior to Tr. S/N 6989) 2 917021 PIN, dowel 1 910010 PLUG, expansion	
13	233950	2	ROLLER ASSY., (Incl. BUSHING)	
14	233952	4	BUSHING	
15	233971	2	SHAFT 1 919125 PIN, roll	
16	233953	2	SEAL, oil	
17	233954	2	WASHER, retaining	
18	227711	2	RING, snap	
19	233955	2	GASKET, support roller	
20	233956	2	CAP, support roller 3 916272 CAPSCREW	
21	204013	6	WASHER, support roller cap	
22	235960	2	PIN, idler yoke	
23	234053	1	STUD, track release service tool (Not Illustrated) 2 910923 NUT 1 915797 PIN, roll 1 910255 WASHER	



TRUCK WHEEL

NOTE: Quantities are Shown For 1 Truck Wheel
 8 Used For Tractors Equipped w/4 Roller Track
 10 Used For Tractors Equipped w/5 Roller Track
 Used Prior to Tr. S/N 8298

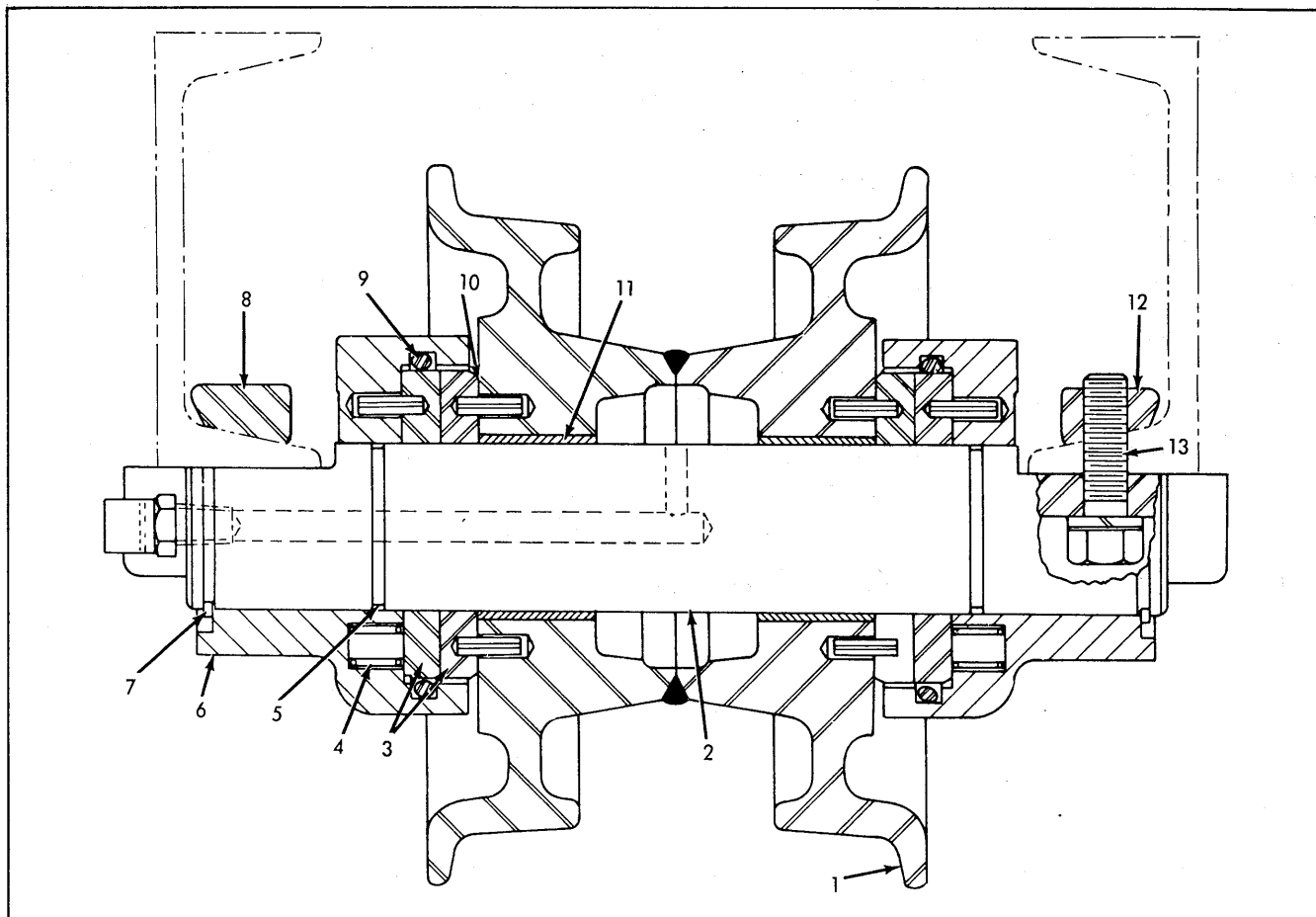
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	235284	-	WHEEL ASSY., truck (Incl. BUSHING & Item 1 thru 11)	
1	233792	1	WHEEL ASSY., truck (Incl. BUSHING)	
2	233796	1	SHAFT, truck wheel 1 917600 FITTING, lube	
3	235713	2	O-RING	
4	233777	2	BUSHING, truck wheel	
5	233778	2	WASHER, seal	
6	233782	2	SEAL, oil	
7	237040	2	BRACKET, truck wheel (Supersedes 233795)	

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TRUCK WHEEL (Cont'd.)

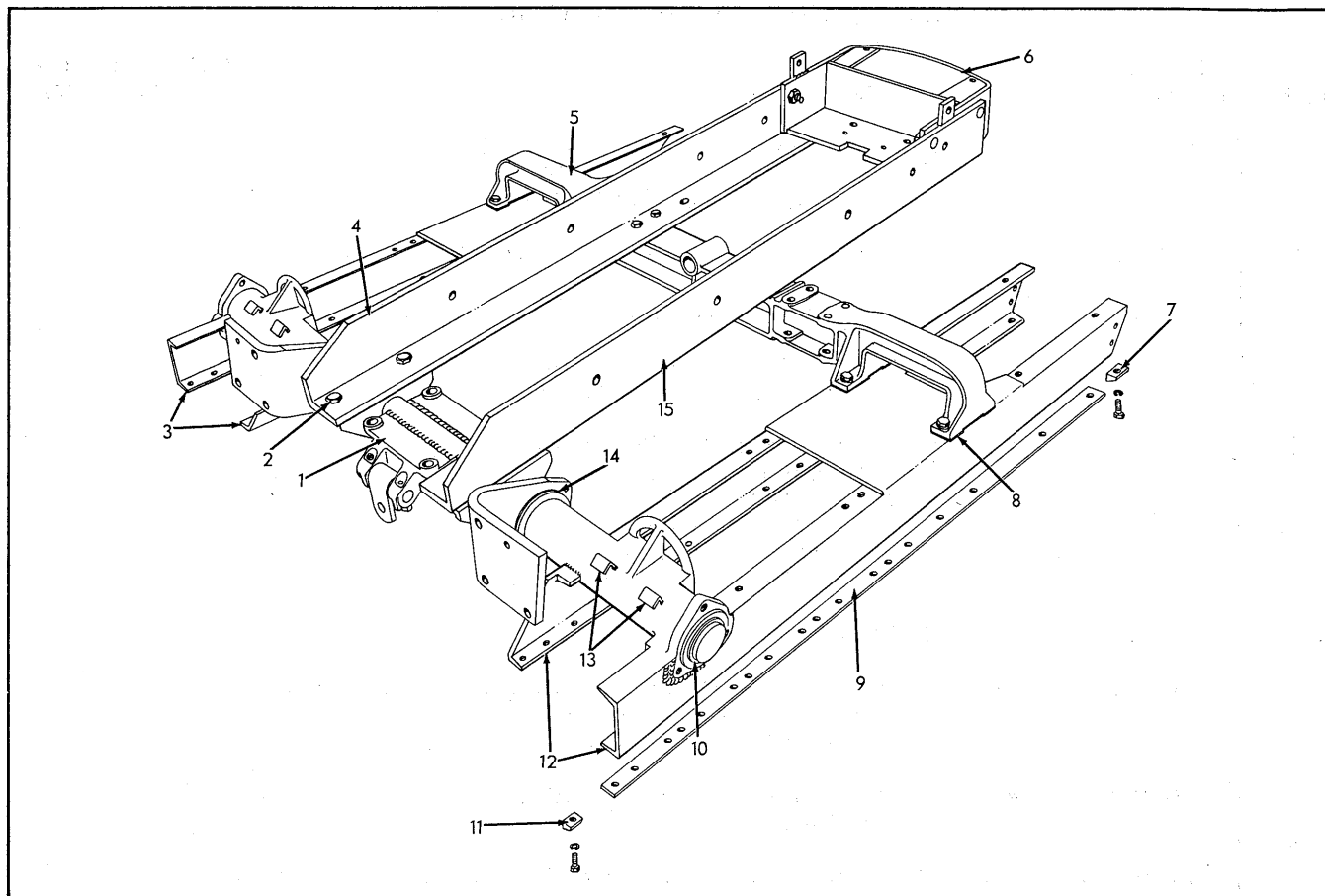
NOTE: Quantities are Shown For 1 Truck Wheel
 8 Used For Tractors Equipped w/4 Roller Track
 10 Used For Tractors Equipped w/5 Roller Track
 Used Prior to Tr. S/N 8298

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
8	234211	14	PIN	
9	233797	2	RING, snap	
10	233779	2	WASHER, thrust	
11	234212	2	GASKET	
12	233799	1	BLOCK, tapping, R.H.	
13	234942	4	CAPSCREW 4 904208 LOCKWASHER	
14	233798	1	BLOCK, tapping, L.H.	



TRUCK WHEEL
Eff. w/Tr. S/N 8298 & Up

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	1003801-6	-	WHEEL KIT ASSY., truck (Inc. Bushing and Items 1 thru 7 & 9 thru 11) (Replaces 244449)	
1	244430	1	WHEEL ASSY., truck (Incls. item 11)	
2	233796	1	SHAFT, truckwheel 1 917600 FITTING, lube	
3	244454	4	WASHER ASSY., seal	
4	226304	8	SPRING	
5	235713	2	O-RING	
6	244448	2	BRACKET	
7	233797	2	RING, snap	
8	233798	1	BLOCK, tapping L.H.	
9	244452	2	O-RING	
10	244451	2	GASKET	
11	233777	2	BUSHING	
12	233799	1	BLOCK, tapping R.H.	
13	234942	4	CAPSCREW 1 904208 LOCKWASHER	



MAIN FRAME, TRUCK FRAME & AXLE

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	237353	1	FRAME ASSY., (Welded)	Replaces items 1, 4, 6 & 15)
1	0237372-8	1	AXLE ASSY., pivot (use 0237353-8)	Not serviced separately on welded main frame. Welded frame Eff.w/Tr. S/N 6430.
		1	AXLE ASSY., pivot (f/54" tread Muckland Trac.)	
		4	921069 CAPSCREW	
		4	904209 LOCKWASHER	
2	236845	2	BOLT, shoulder	
		1	922041 NUT	
3	233728	1	FRAME ASSY., truck L.H. (f/4 roller) (Used prior to Tr. S/N 2987)	
	235547	1	FRAME ASSY., truck L.H. (f/4 roller) (Eff. w/Tr. S/N 2987 & up)	
	233752	1	FRAME ASSY., truck L.H. (f/5 roller) (Used prior to Tr/ S/N 2987)	
	235553	1	FRAME ASSY., truck L.H. (f/5 roller) Eff. w/Tr. S/N 2987 & up)	
4	236973	1	ANGLE, L.H. (Supersedes 234298)	
		4	921170 CAPSCREW	
		4	904369 LOCKWASHER	
		4	915763 NUT	

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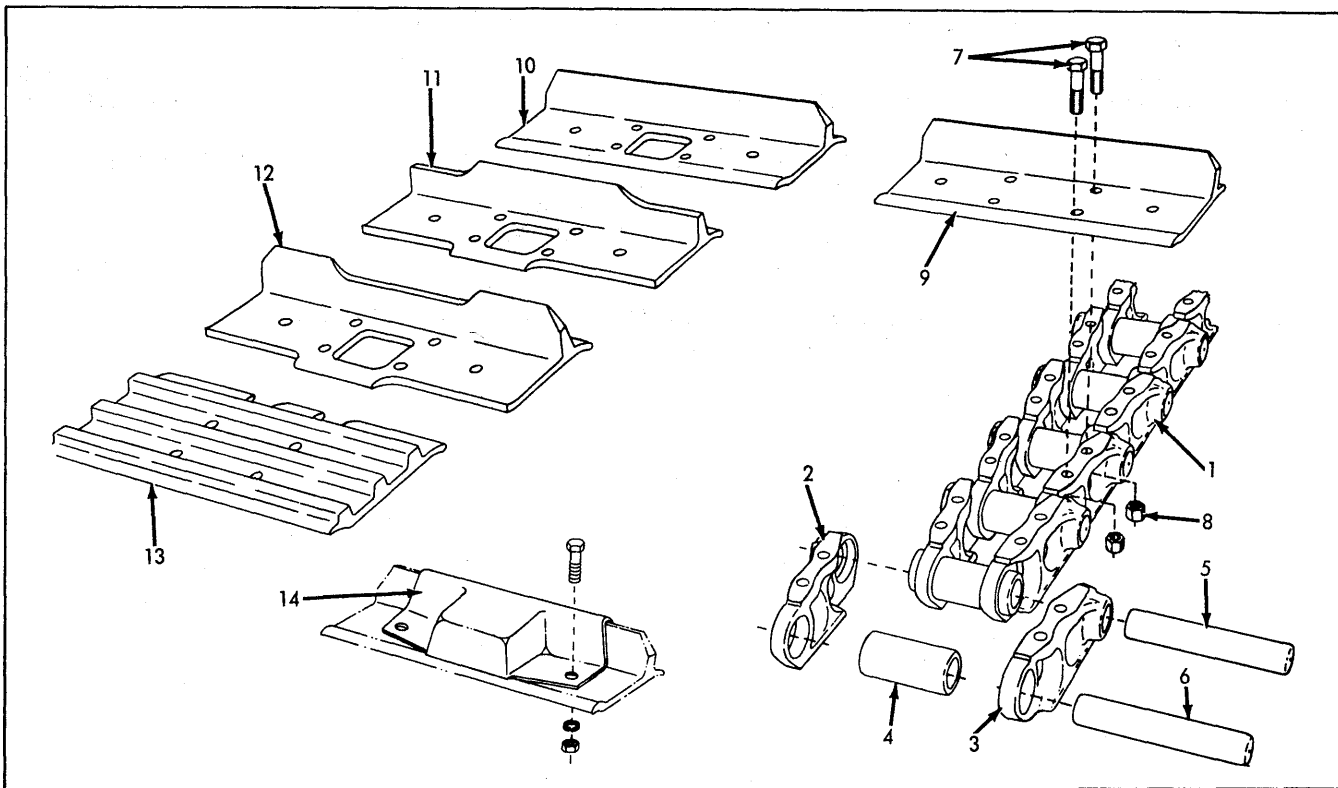
MAIN FRAME, TRUCK FRAME & AXLE (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
5	234273	1	BEAM, front (Used prior to Tr. S/N 2987)	
		8	921168 CAPSCREW	
		8	904209 LOCKWASHER	
	235841	1	BEAM, front (f/54" tread Muckland Tractor)	
	235539	1	BEAM, front (Eff. w/Tr. S/N 2987 & up)	
		8	921476 CAPSCREW	
		8	904209 LOCKWASHER	
6	234301	1	SUPPORT, radiator (Not serviced separately on welded main frame)	
		4	916448 BOLT	
		4	900371 NUT	
		4	921169 CAPSCREW	
		8	904369 LOCKWASHER	
7	233745	8	BLOCK, tapping	
8	235544	4	SPACER, beam (Used only when replacing Truck Frames prior to S/N 2987)	
		4	921476 CAPSCREW	
9	234869	4	SPACER, truck frame (4 roller) (Used prior to Tr. S/N 2987)	
	234868	4	SPACER, truck frame (5 roller) (Used prior to Tr. S/N 2987)	
10	233744	2	RING, snap	
11	233746	24	BLOCK, tapping	
		1	917831 CAPSCREW	
		1	904208 LOCKWASHER	
12	233734	1	FRAME ASSY., truck, R.H. (f/4 roller) (Used prior to Tr. S/N 2987)	
	235548	1	FRAME ASSY., truck, R.H. (f/4 roller) (Eff. w/Tr. S/N 2987 & up)	
	233753	1	FRAME ASSY., truck, R.H. (f/5 roller) (Used prior to Tr. S/N 2987)	
	235554	1	FRAME ASSY., truck, R.H. (f/5 roller) (Eff. w/Tr. S/N 2987 & up)	
13	236692	4	CLIP, rock guard closure (Eff. w/Tr. S/N 3130 & up)	
14	235558	2	SPACER, pivot axle (Used prior to S/N 2987)	
		1	903633 CAPSCREW	
	235800	*	SHIM, pivot axle (Use as required)(Eff. w/Tr/ S/N 2987 & up)	
	235536	*	SHIM, pivot axle (Use as required) (Eff. w/Tr. S/N 2987 & up)	

Continued

MAIN FRAME, TRUCK FRAME & AXLE (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
15	236974	1	ANGLE, R.H. (Supersedes 234287) (Not serviced separately on welded main frame)	
		4	921170 CAPSCREW	
		4	904369 LOCKWASHER	
		4	915763 NUT	
16	235844	2	SPACER, pivot axle (Not Illustrated) (f/54" tread Muckland Tractor)	



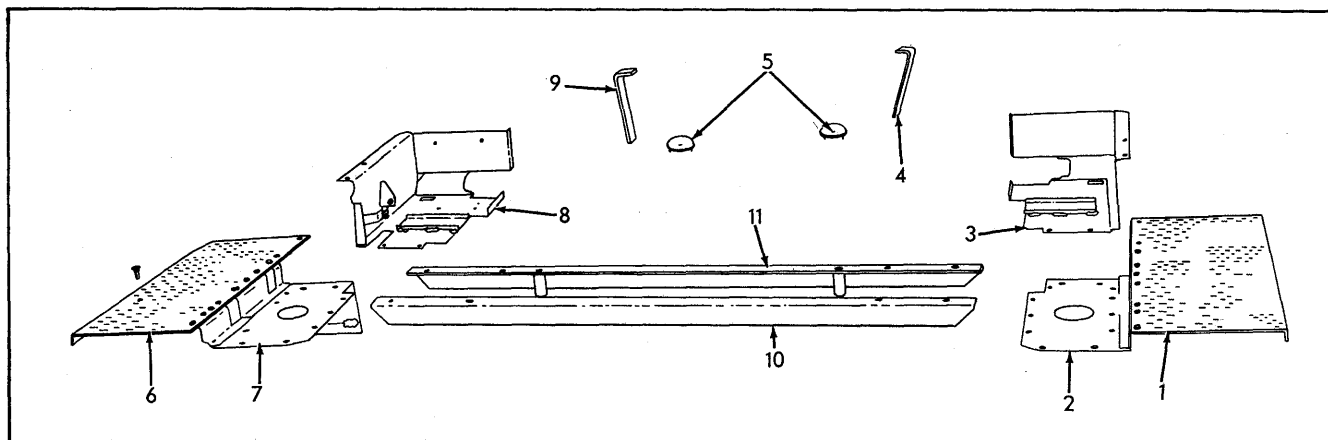
TRACK

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
	235467	2	TRACK ASSY., 7" Std. (Incl. Items 1 thru 8 & Item 9)	
	235474	2	TRACK ASSY., 10" Std. (Incl. Items 1 thru 8 & Item 9)	
	235622	2	TRACK ASSY., 12" Std. (Incl. Items 1 thru 8 & Item 9)	
	235468	2	TRACK ASSY., 14" Std. (Incl. Items 1 thru 8 & Item 9)	
	235473	2	TRACK ASSY., 10" Semi-grouser w/cutout (Incl. Items 1 thru 8 & Item 13)	
	235626	2	TRACK ASSY., 12" Semi-grouser w/cutout (Incl. Items 1 thru 8 & Item 13)	
	235471	2	TRACK ASSY., 10" Semi-grouser (Incl. Items 1 thru 8 & Item 13)	
	235624	2	TRACK ASSY., 12" Semi-grouser (Incl. Items 1 thru 8 & Item 13)	
	235472	2	TRACK ASSY., 14" Semi-grouser (Incl. Items 1 thru 8 & Item 13)	
	235469	2	TRACK ASSY., 10" w/cutout (Incl. Items 1 thru 8 & Item 10)	
	235620	2	TRACK ASSY., 12" w/cutout (Incl. Items 1 thru 8 & Item 10)	

Continued

TRACK (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
	235470	2	TRACK ASSY., 14" w/cutout (Incl. items 1 thru 8 & item 10)	
	235843	2	TRACK ASSY., 18" standard (f/Muckland Tractor only)	
	235875	2	TRACK ASSY., 12" snow & ice-single & double calk (Incl. items 1 thru 8 & 11 and 12)	
	237736	2	TRACK ASSY., 12" rubber (Incl. items 1 thru 9)	
1	233908	2	RAIL ASSY., track (Incl. items 2 thru 6)	
2	233909	68	BAR, side, L.H.	
3	233910	68	BAR, side, R.H.	
4	234950	68	BUSHING	235488
5	234951	66	PIN, track	235487
6	234952	2	PIN, master	235487
7	0043591-7	272	BOLT, track shoe (Replaces 234944)	
8	0038234-1	272	NUT, track shoe (Replaces 234943)	
	234947	68	SHOE, grouser 7" std.	
	234948	68	SHOE, grouser 10" std.	
9	1003403-1	68	SHOE, grouser 12" std. (Replaces 235621)	
	237737	68	SHOE, grouser 12" (rubber)	
	1003404-9	68	SHOE, grouser 14" std. (Replaces 234945)	
	235842	68	SHOE, grouser 18" std. (f/Muckland Tractor Only)	
	234949	68	SHOE, grouser 10" w/cutout	
10	235619	68	SHOE, grouser 12" w/cutout	
	234946	68	SHOE, grouser 14" w/cutout	
11	241145	34	SHOE, grouser 24" L.H. (For extreme tractor conditions)	
	235873	34	SHOE, grouser 12" snow & ice (single calk)	
	241146	34	SHOE, grouser, 24" R.H. (For extreme tractor conditions)	
12	235874	34	SHOE, grouser 12" snow & ice (double calk)	
	233912	68	SHOE, semi-grouser 10"	
	233914	68	SHOE, semi-grouser w/cutout 10"	
13	0253103-6	68	SHOE, semi-grouser 12" (Replaces 234623)	
	0254207-4	68	SHOE, semi-grouser w/cutout 12" (Replaces 235625)	
	J253109-3	68	SHOE, semi-grouser 14" (Replaces 233913)	
14	235926	68	PLATE, street f/use with 10", 12" & 14" full grouser tracks	
	2	920582	CAPSCREW	
	2	904208	LOCKWASHER	
	2	900369	NUT	
15	1003009-6	1	GAUGE, track, wear (Replaces 242093)	



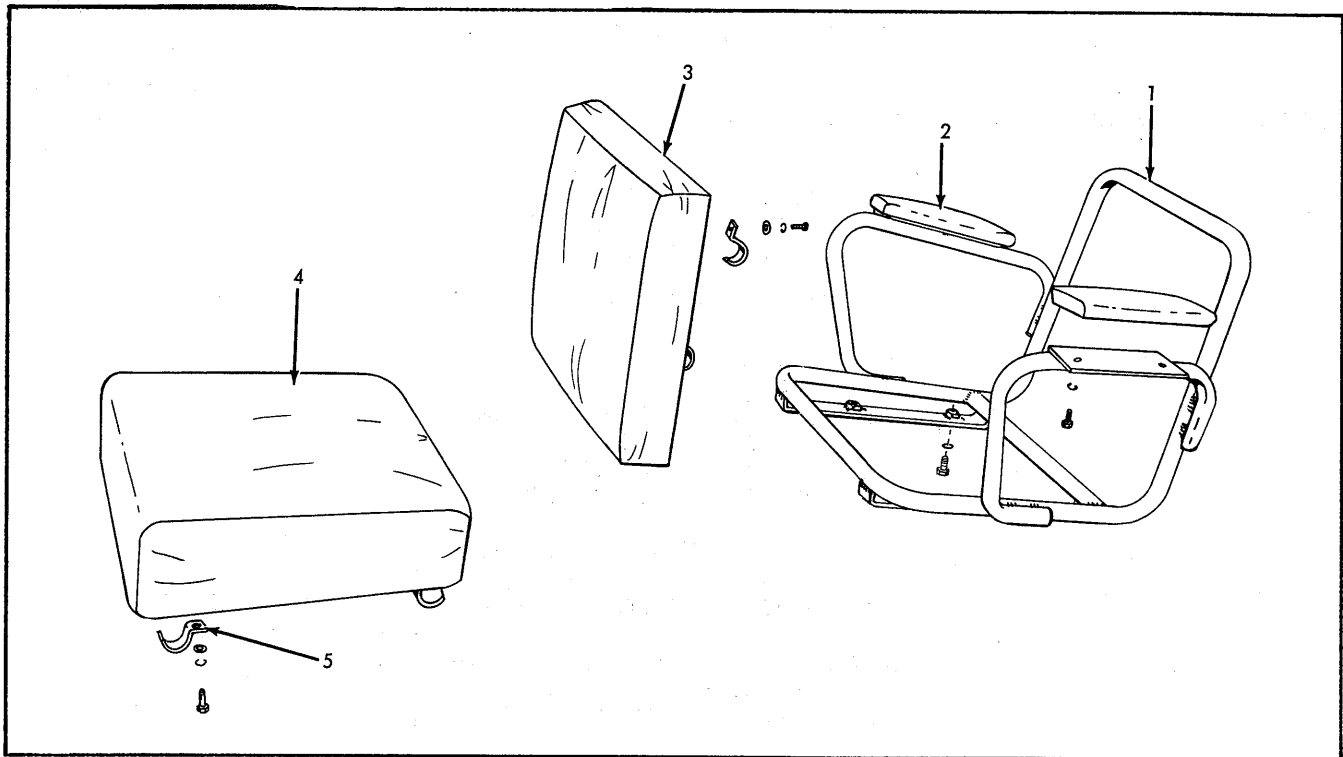
PLATFORM & SEAT SUPPORT

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	246330	1	FENDER, R.H. rear (Eff. w/Tr. S/N 8694 & up)	
	234573	1	FENDER, R.H. rear (Used prior to Tr. S/N 8694)	
	2	922249	BOLT	
	4	914900	WASHER, plain	
	11	904206	LOCKWASHER	
	11	910324	NUT, hex	
2	234574	1	PLATFORM, R.H., rear	
			2 903643 CAPSCREW	
			2 904206 LOCKWASHER	
			7 903629 CAPSCREW	
			7 904206 LOCKWASHER	
3	246329	1	PLATFORM, R.H., front (Eff. w/Tr. S/N 8694 & up)	
	233865	1	PLATFORM, R.H., front (Used prior to Tr. S/N 8694)	
	4	920139	SCREW	
	1	916311	CAPSCREW	
	1	904208	LOCKWASHER	
4	233947	1	SUPPORT, R.H., platform	
			1 915041 BOLT	
			2 904206 LOCKWASHER	
			2 910324 NUT	
			1 911429 WASHER	
			1 903633 CAPSCREW	
5	233944	2	COVER ASSY., brake, R.H. & L.H. (Incl. SPRING & RIVET)	
6	234571	1	FENDER, L.H., rear	
			7 903630 CAPSCREW	
			7 904206 LOCKWASHER	
			7 910324 NUT, hex	
7	234572	1	PLATFORM, L.H., rear	
			7 903629 CAPSCREW	
			7 904206 LOCKWASHER	
			2 903643 CAPSCREW	
			2 904209 LOCKWASHER	

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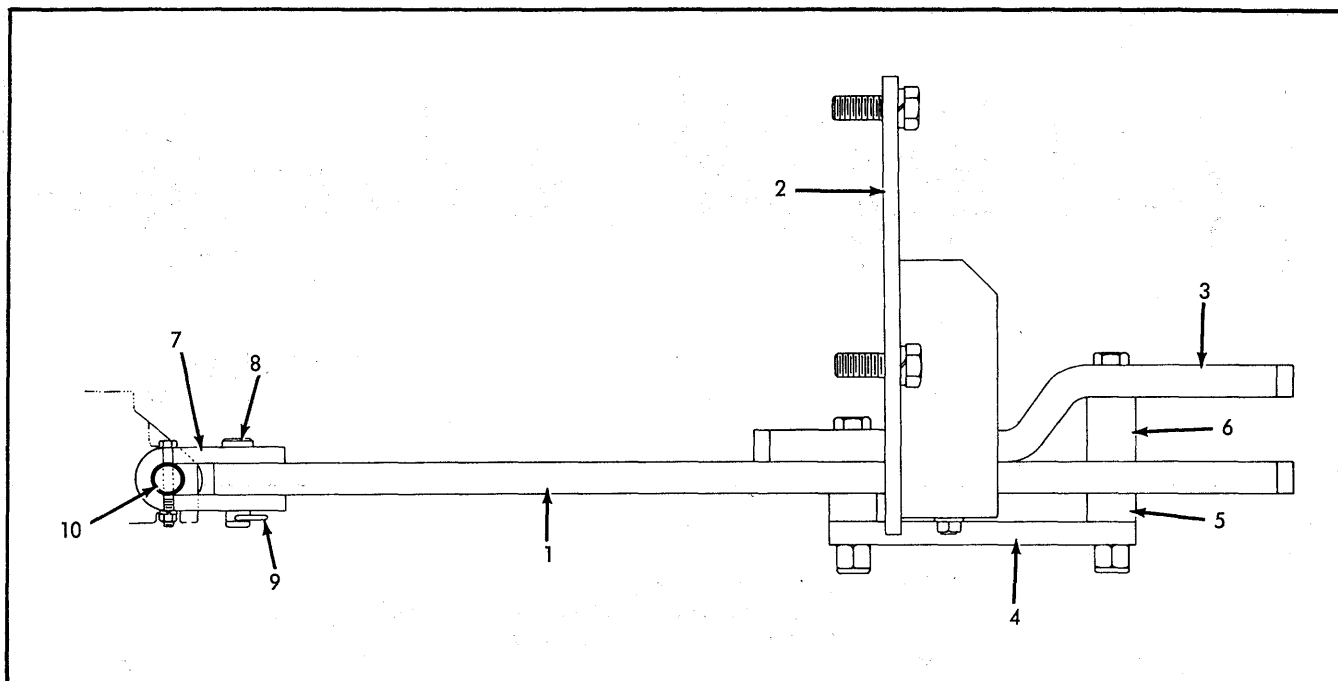
PLATFORM & SEAT SUPPORT (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
8	233863	1	PLATFORM, L.H., front	
		3	903628 CAPSCREW	
		3	904206 LOCKWASHER	
		1	916311 CAPSCREW	
		1	904208 LOCKWASHER	
		5	920139 SCREW	
9	233943	1	SUPPORT, L.H., platform	
		1	915041 BOLT	
		2	904206 LOCKWASHER	
		2	910324 NUT	
		1	911429 WASHER	
		1	903633 CAPSCREW	
10	242772	1	ANGLE ASSY., support, seat front	Supersedes 233762 welded support. (Eff. w/Tr. S/N 7515 & up)
		2	903782 CAPSCREW	
		2	904206 LOCKWASHER	
11	242773	1	ANGLE ASSY., support, seat rear	
		2	903782 CAPSCREW	
		2	904206 LOCKWASHER	



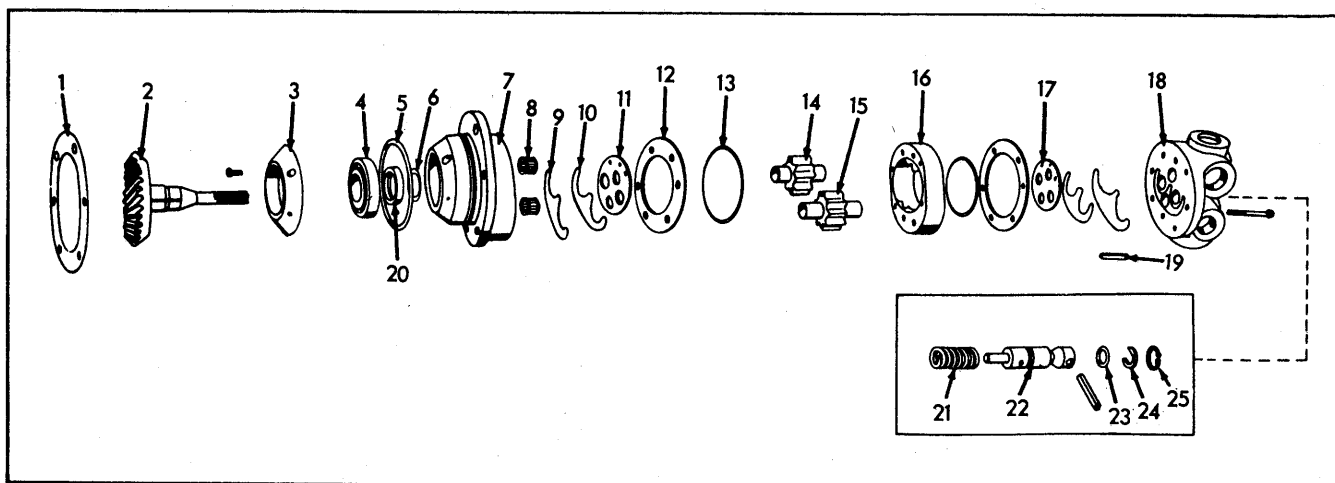
SEAT

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234776	1	FRAME ASSY., seat	
		4	903631 CAPSCREW	
		4	904206 LOCKWASHER	
2	234216	2	CAP, arm	
		2	916604 CAPSCREW	
		2	916964 LOCKWASHER	
3	234217	1	CUSHION, back	
4	245159	1	CUSHION, seat	
5	234784	8	CLIP	
		1	916604 CAPSCREW	
		1	916964 LOCKWASHER	
		1	918264 WASHER	



DRAWBAR

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234341	1	DRAWBAR	
2	234342	1	SUPPORT ASSY.	
		8	912896 CAPSCREW	
		8	904369 LOCKWASHER	
		2	913120 BOLT	
		2	904208 LOCKWASHER	
		2	910510 NUT	
3	234345	1	EXTENSION	
		1	921455 CAPSCREW	
		1	918784 CAPSCREW	
		2	915256 NUT	
4	234346	1	BAR	
5	234347	2	SPACER, short	
6	234348	1	SPACER, long	
7	220974	1	CLEVIS	
8	220872	1	PIN, drawbar attaching	
9	225152	1	PIN, quick hitch (Drawbar pin)	
10	237365	1	PIN, support (clevis)(2nd type)	
		1	917626 NUT	
10	234349	1	PIN, support (clevis) (1st type shown)	
		2	905666 CAPSCREW	
		2	904205 LOCKWASHER	
		2	910323 NUT	



HYDRAULIC PUMP

*15 G.P.M.

**25 G.P.M. (1st type)

*** 25 G.P.M. (2nd type) (w/Reducer Valve)

Used Prior to Tr. S/N 8694

ITEM	PART NUMBER	*	QTY.		DESCRIPTION	ASSEMBLY OR PACKAGE NO.
			**	***		
-	234544	1	-	-	PUMP ASSY., hydraulic 15 G.P.M. (Incl. items 7 thru 20)	
	236748	-	-	1	PUMP ASSY., hydraulic 25 G.P.M. (2nd type flow reducer valve) (Incl. items 7 thru 25)	
	234590	-	1	-	PUMP ASSY., hydraulic 25 G.P.M. (1st type) (Incl. items 7 thru 20)	
1	217491	*	*	*	SHIM (*Use as required)	
2	235570	1	1	1	SHAFT (w/gear) Spiral Bevel Eff. w/Tractor Serial No. 2924 & up)	
	234549	1	1	-	SHAFT, (w/gear) Used prior to Tractor Serial No. 2924)	
3	234386	1	1	1	RETAINER, bearing 3 921181 SCREW	
4	210024	1	1	1	BEARING	
5	227500	1	1	1	O-RING	
6	234385	1	1	1	RING, snap	
7	234690	1	1	1	BODY ASSY., pump (Incl. two BEARINGS & OIL SEAL)	
					2 918399 CAPSCREW	15 G.P.M. Pump
					2 917610 CAPSCREW	
					2 921242 CAPSCREW	25 G.P.M. Pump
					2 910339 CAPSCREW	
8	234692	4	4	4	BEARING, needle	
9	0253490-7	2	2	2	RING, back-up (Replaces 250280)	
10	250279	2	2	2	RING, sealing	
11	234547	1	1	1	PLATE, wear	
					Continued	

HYDRAULIC PUMP (Cont'd)

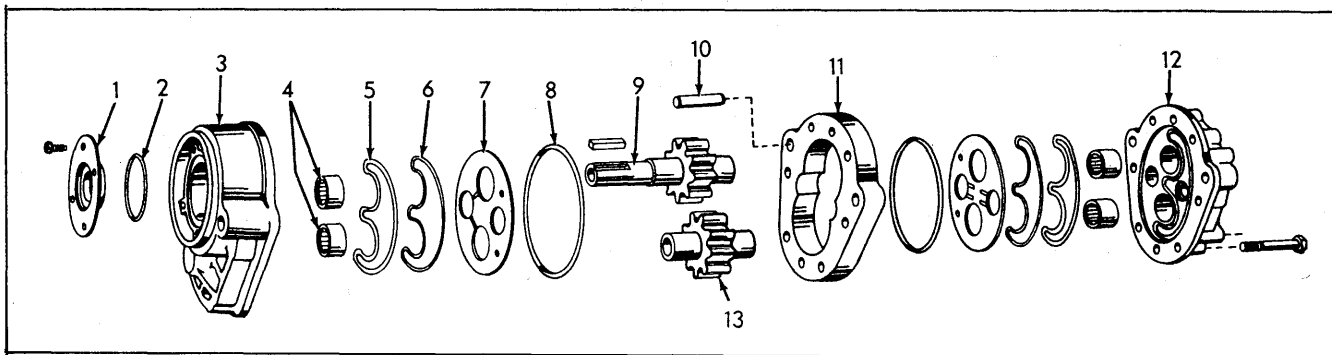
*15 G. P. M.

***25 G. P. M. (1st type)

***25 G. P. M. (2nd type) (w/Reducer valve)

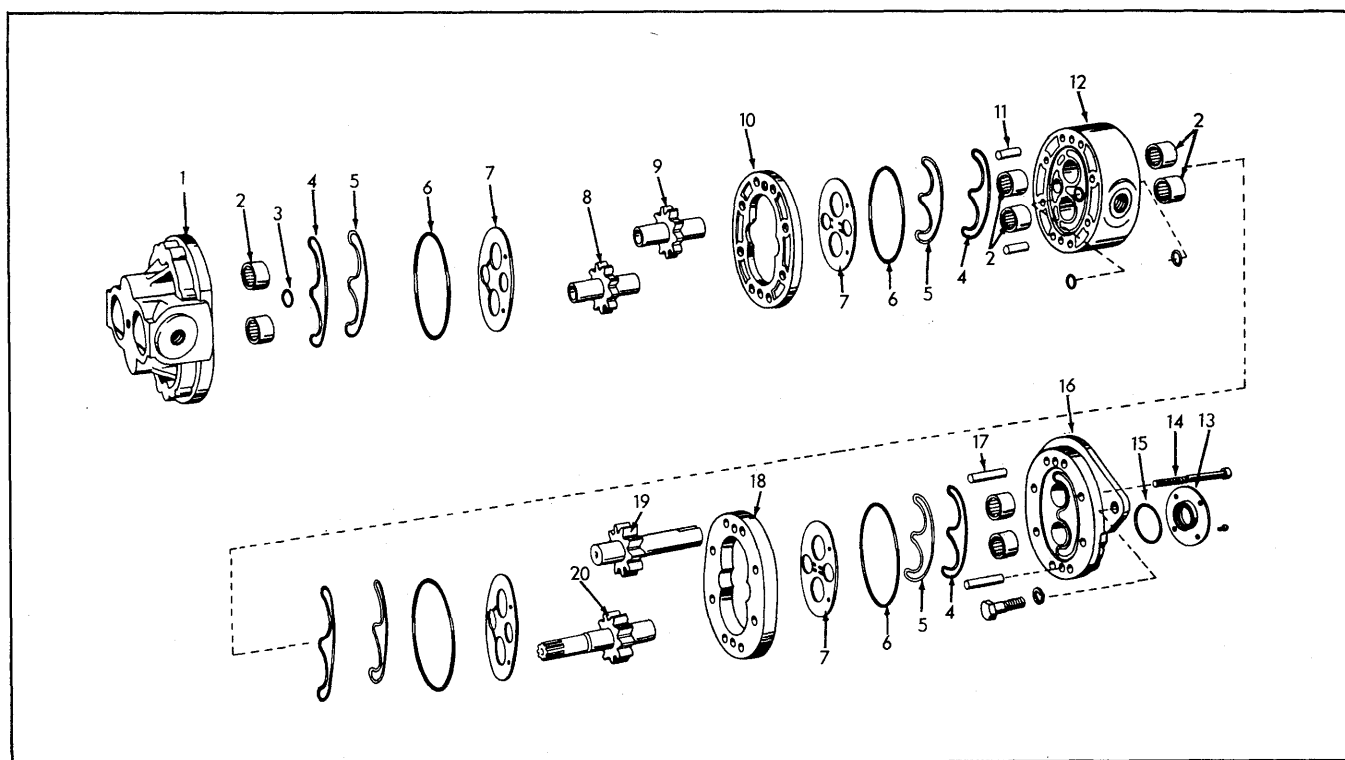
Used Prior to Tr. S/N 8694

ITEM	PART NUMBER	*	QTY. **	***	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
12	234696	2	2	2	PLATE, retaining	
13	245685	2	2	2	SEAL retaining, plate	
14	{ 234697	1	-	-	GEAR, drive	
	{ 234713	-	1	1	GEAR, drive	
15	{ 234698	1	-	-	GEAR, idler	
	{ 234714	-	1	1	GEAR, idler	
16	{ 234695	1	-	-	PLATE, gear	
	{ 234712	-	1	1	PLATE, gear	
17	234548	1	1	1	PLATE, wear	
18	{ 234728	1	-	-	COVER ASSY., pump (Incl. two BEARINGS & Item 8)	
					2 918594 CAPSCREW	
					2 904204 LOCKWASHER	
					2 916280 CAPSCREW	
					2 904205 LOCKWASHER	
	{ 234710	-	1	-	COVER ASSY., pump (Incl. two BEARINGS & item 8)	
					2 920647 CAPSCREW	
					2 916280 CAPSCREW	
					2 904204 LOCKWASHER	
					2 904205 LOCKWASHER	
	{ 236732	-	-	1	COVER ASSY., pump(Incl. BRGS & Items 22 & 25)	
19	{ 234699	2	-	-	PIN, dowel	
	{ 234715	-	2	2	PIN, dwel	
20	234546	1	1	1	SEAL, oil	
21	237152	-	-	1	SPRING	
22	236734	-	-	1	STEM ASSY., reducer valve (Incl. 23, 24, 25 & ROLL PIN)	
					1 916004 PIN, roll	
23	225847	-	-	1	O-RING, stem	
24	237153	-	-	1	WASHER, stem	
25	237154	-	-	1	RING, snap	
--	{ -----	1	1	1	PLATE, name (Not Serviced)	
	{ 234706	2	2	2	SCREW, drive	



SINGLE HYDRAULIC PUMP (11.5 G.P.M.)
Eff. w/Tr. S/N 8694 & Up

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	246411	1	PUMP ASSY., hydraulic (Incl. items 1 thru 13)	
1	241138	1	SEAL ASSY., retainer	
	4 914198		SCREW	
	1 0247332-0		Retainer, seal	
	1 0241139-5		Seal, oil	
2	235713	1	O-RING, retainer	
3	0248497-0	1	BODY ASSY., pump (Incl. 2 of item 4) (Replaces 243599)	
	8 912270		SCREW	
4	234692	4	BEARING, needle	
5	250279	2	RING, sealing	
6	0253490-7	2	RING, back-up (Replaces 250280)	
7	246234	2	PLATE, wear	
8	245685	2	SEAL, retaining plate	
9	245693	1	GEAR ASSY., drive (Incl. SHAFT)	
10	241954	2	PIN, dowel	
11	245688	1	PLATE, gear	
12	247208	1	COVER ASSY., pump (Incl. 2 of item 4)	
13	241951	1	GEAR ASSY., idler (Incl. SHAFT)	

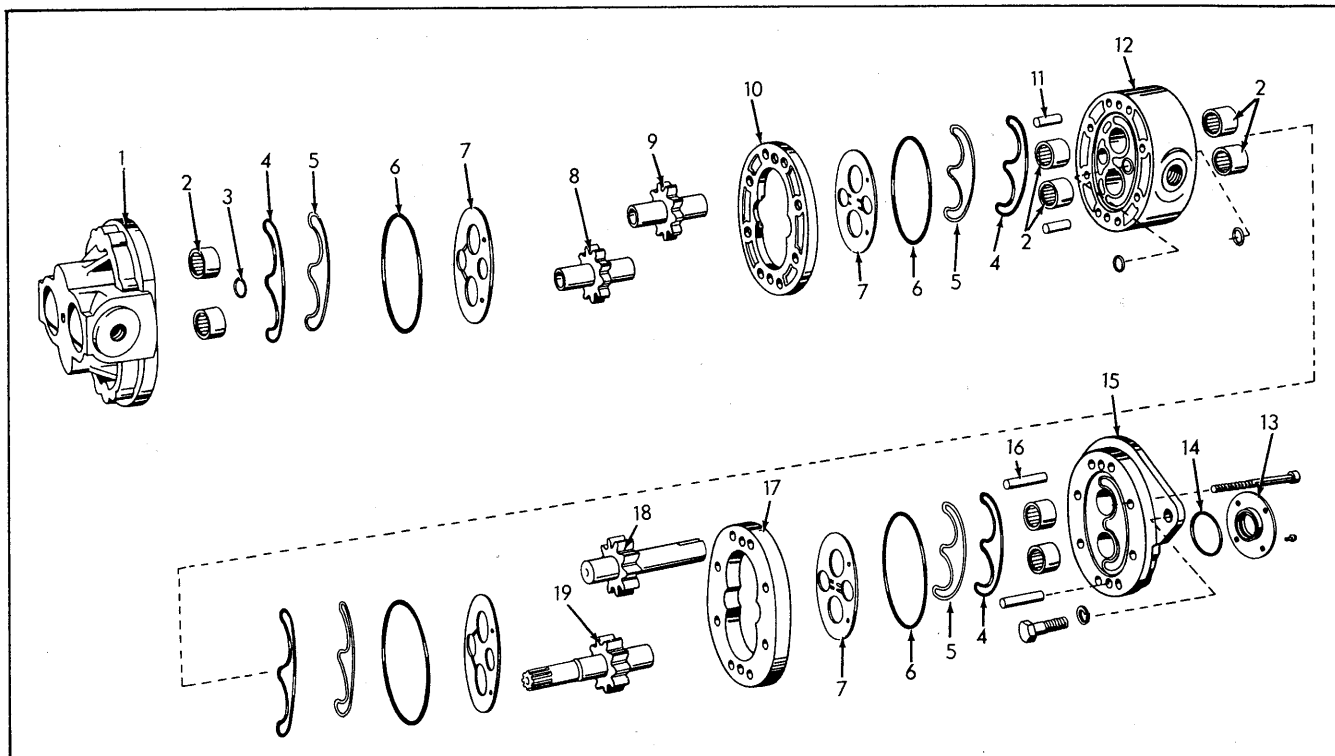


DUAL HYDRAULIC PUMP

f/Model 403 Winch

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	247656	1	PUMP ASSY., dual, 11.5-6 GPM (Incl. Items 1 thru 20)	
1	245686	1	COVER ASSY., (Incl. 2 of Item 2)	
2	234692	8	BEARING, needle	
3	234584	4	O-RING	
4	234586	4	RING, sealing	
5	250280	4	RING, back-up	
6	250279	4	SEAL, retaining	
7	246234	4	PLATE, wear	
8	248181	1	SHAFT & GEAR ASSY., drive	
9	248184	1	SHAFT & GEAR ASSY., idler	
10	248187	1	PLATE, gear	
11	248188	2	PIN, dowel	
12	248179	1	PLATE ASSY., bearing (Incl. 4 of Item 2)	
13	241138	1	RETAINER ASSY., seal (Incl. SEAL)	
			1 0241139-5 Seal, oil	
			1 0247332-0 Retainer, oil	
			1 914198 SCREW, pltd., #10NC x 3/8	
14	0925463-2	8	CAPSCREW, 3/8NC x 4-3/4 (Replaces 248189)	
15	235713	1	O-RING	
16	247717	1	BODY ASSY., (Incl. 2 of Item 2)	
17	241954	2	PIN, dowel	
18	245688	1	PLATE, gear	
19	245693	1	SHAFT & GEAR ASSY., drive	
20	247214	1	SHAFT & GEAR ASSY., drive	

MEMO



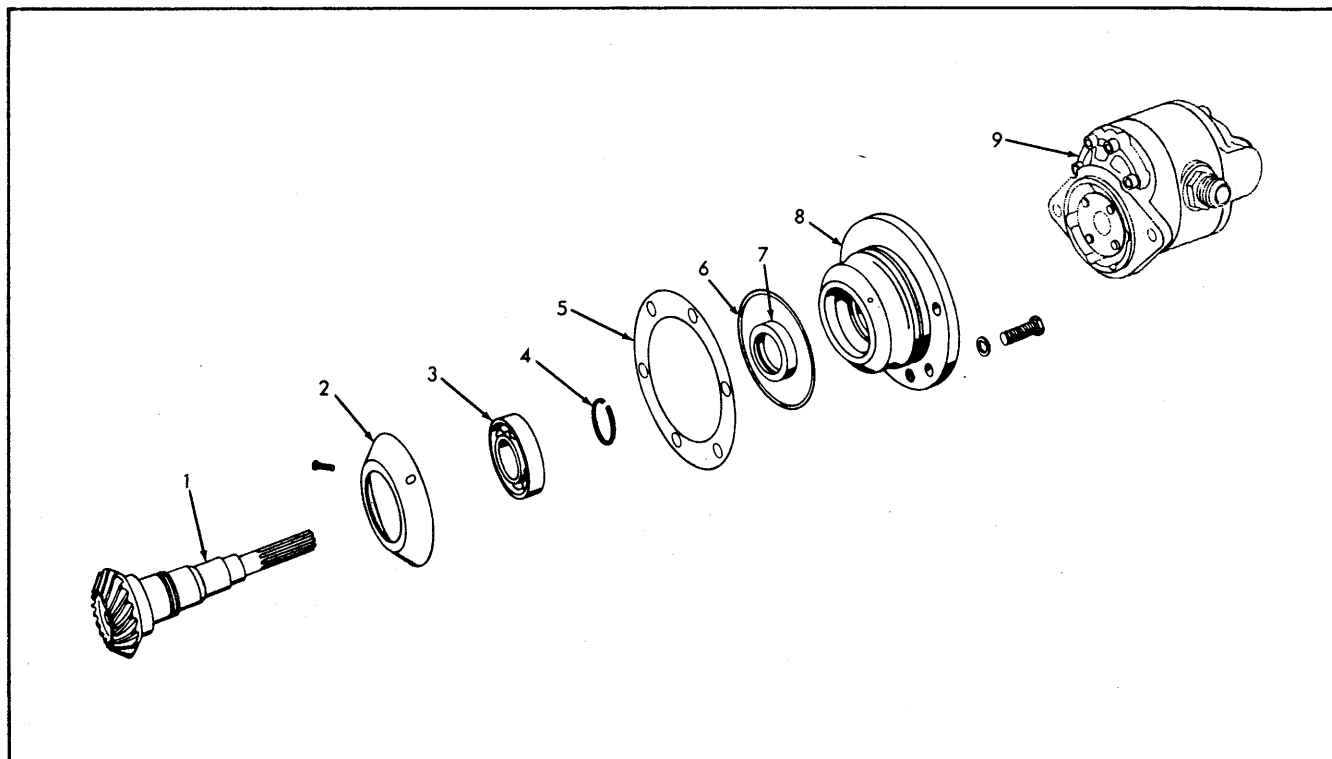
DUAL HYDRAULIC PUMP (25 G.P.M.)
Eff. w/Tr. S/N 8694 & Up

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
-	246412	1	PUMP ASSY, side mounted, dual (Incl. items 1 thru 19) 8 924067 SCREW, socket head	
1	247212	1	COVER ASSY., pump (Incl. 2 of item 2)	
2	234692	8	BEARING, needle	
3	-----	4	O-RING, wear plate (No longer required)	
4	250279	4	RING, sealing	
5	0253490-7	4	RING, back-up (Replaces 250280)	
6	245685	4	SEAL, retaining	
7	246234	4	PLATE, wear	
8	247215	1	GEAR ASSY., drive (Incl. SHAFT)	
9	247218	1	GEAR ASSY., idler (Incl. SHAFT)	
10	247221	1	PLATE, gear	
11	247222	2	PIN, dowel	
12	247210	1	PLATE ASSY., bearing (Incl. 4 of item 2)	
13	241138	1	RETAINER ASSY., seal 4 923734 SCREW	
14	235713	1	O-RING, retainer	

Continued

DUAL HYDRAULIC PUMP (25 G.P.M.) (Cont'd)
Eff. w/Tr. S/N 8694 & Up

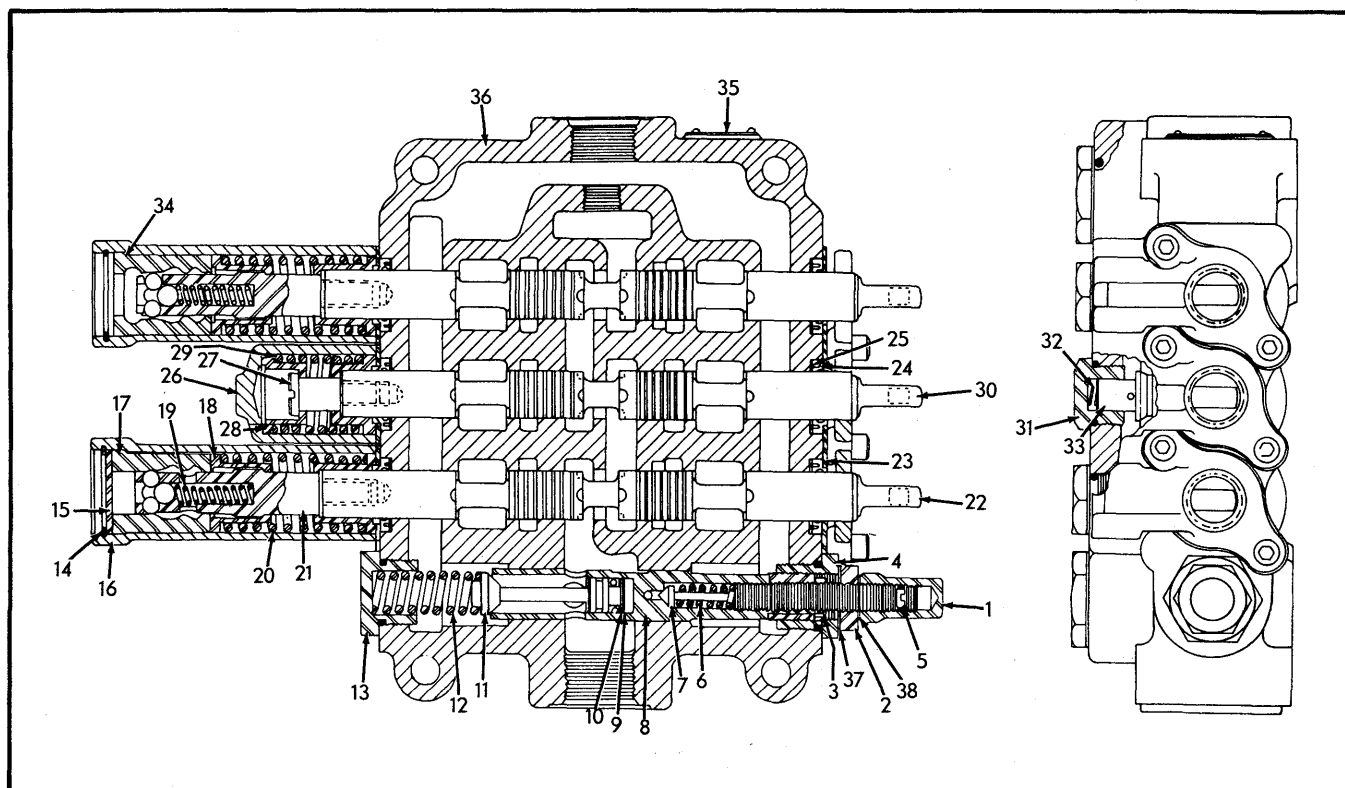
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
15	245691	1	BODY ASSY., pump (Incl. 2 of item 2)	
16	241954	2	PIN, dowel	
17	245688	1	PLATE, gear	
18	245693	1	GEAR ASSY., drive (Incl. SHAFT)	
19	247214	1	GEAR ASSY., (Incl. SHAFT)	



HYDRAULIC PUMP DRIVE & MOUNTING
(Eff. W/Tr. S/N 8694 & up)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	246413	1	SHAFT ASSY., pump drive (Incl. GEAR)	
2	234386	1	RETAINER, pump drive bearing	
3	210024	1	BEARING, pump drive	
4	234385	1	RING, snap drive bearing	
5	217491	*	SHIM, .005"(*Use as required)	
6	227500	1	O-RING	
7	236065	1	SEAL, oil pump	
8	246414	1	ADAPTER, hydraulic pump	
		2	903638 CAPSCREW	
9	-----	1	PUMP ASSY., hydraulic (See HYDRAULIC PUMP Group fir components)	

MEMO



CONTROL VALVES - 3 SPOOL SHOWN

* 1 Spool

** 3 Spool

ITEM	PART NUMBER	QTY.		DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**		
-	0236429-7	-	1	VALVE ASSY., control (Loader Valve) (Replaces 234269)	
-	236431	-	1	VALVE ASSY., control (Dozer Valve)(Supersedes 234271)	
-	236430	1	-	VALVE ASSY., control (Supersedes 234270)	
1	234260	1	1	NUT, castle	
2	234261	1	1	LOCKNUT	
3	234245	1	1	SLEEVE, adjusting	
4	234247	1	1	PLUG, relief valve, pilot end	
5	234244	1	1	1 921206 O-RING SCREW, adjusting	
6	234240	1	1	SPRING, relief valve pilot	
7	234243	1	1	POPPET, pilot relief	
8	234241	1	1	SLEEVE, relief valve	
9	234264	1	1	RING, backup	
10	234265	1	1	O-RING	
11	234242	1	1	POPPET, pilot relief	
12	234239	1	1	SPRING, relief valve pilot	
13	234246	1	1	PLUG, relief valve 1 921206 O-RING	

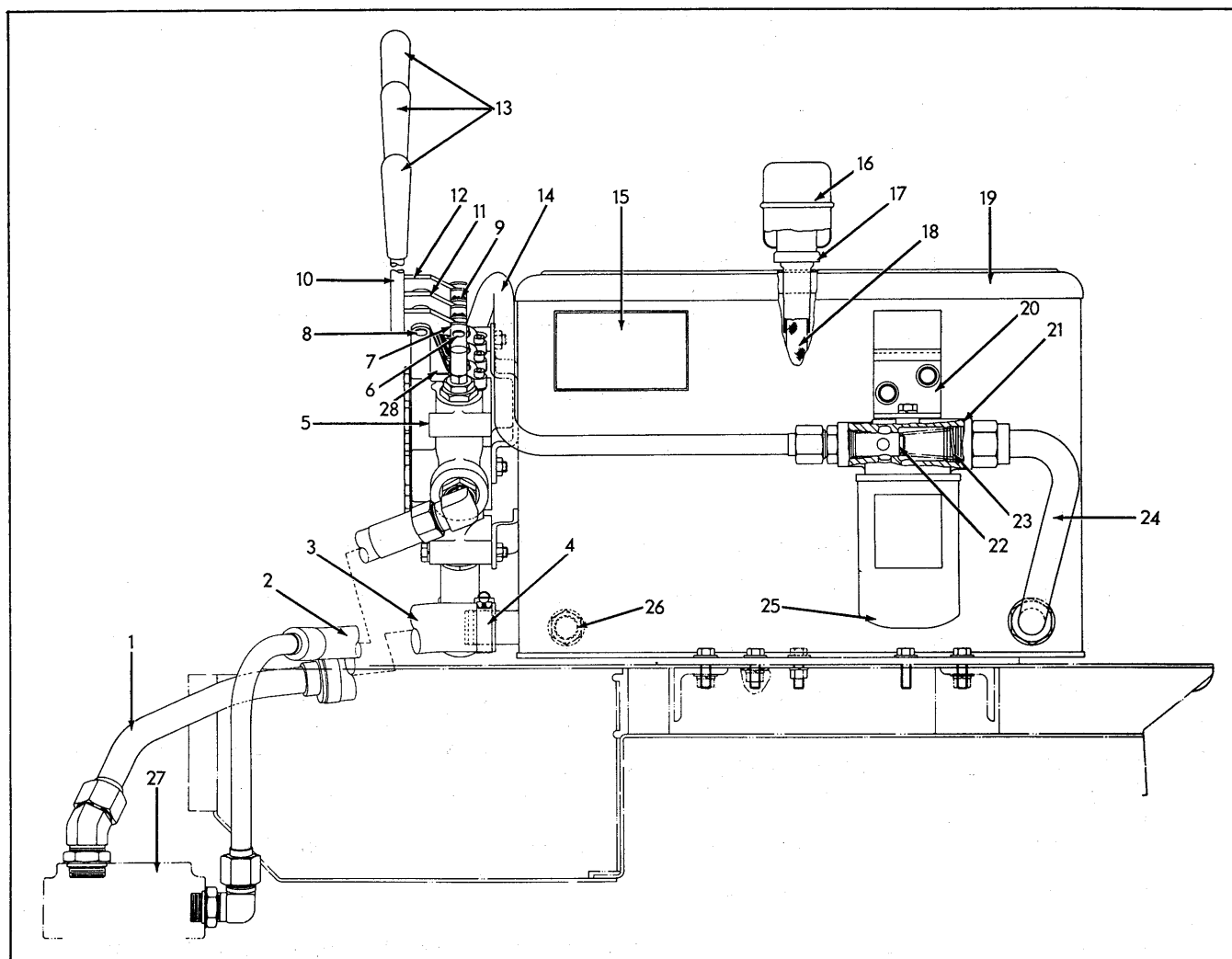
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CONTROL VALVES - 3 SPOOL SHOWN (Cont'd.)

* 1 Spool

** 3 Spool

ITEM	PART NUMBER	QTY.		DESCRIPTION	ASSEMBLY OR PACKAGE NO.
		*	**		
14	234251	1	2	RING, snap, plug retaining	
15	234250	1	2	PLUG, detent	
16	234248	1	2	CAP, detent 2 921182 CAPSCREW	
17	234249	1	1	SLEEVE, detent	
18	234252	2	4	SEAT, detent spring	
19	236423	1	2	SPRING, detent (Used w/2nd type control levers)	
	234793	1	2	SPRING, detent (Used with 1st type control levers)	
			1	918976 BALL	
20	234254	1	2	SPRING, detent, plunger return	
21	234253	1	2	PIN, detent 4 915771 BALL	
22	- - - - -	1	2	PLUNGER, double acting, float (Serviced only in Assembly)	
23	234235	2	6	PLATE, seal 2 921282 CAPSCREW, skt. hd.	
24	234954	2	6	SEAL, wiper	
25	234263	2	6	RING, seal support	
26	234234	-	1	CAP, plunger 2 912261 CAPSCREW	
27	234237	-	1	CAPSCREW, special	
28	234236	-	2	SEAT, spring	
29	234238	-	1	SPRING, plunger return	
30	- - - - -	-	1	PLUNGER, double acting (Serviced only in Assembly)	
31	234257	1	3	PLUG, check valve 1 921205 O-RING	
32	234955	1	3	SPRING, check valve	
33	234256	1	3	POPPET, check valve	
34	234266	-	1	SLEEVE, detent (f/loader valve)	
	234249	-	1	SLEEVE, detent	
35	- - - - -	1	1	NAME PLATE (Not Serviced) 4 917193 SCREW, drive	
36	- - - - -	1	-	HOUSING, valve (Serviced only in assembly)	
	- - - - -	-	1	HOUSING, valve (Serviced only in Assembly)	
	921204	2	2	PLUG (Incl. O-Ring)	
	921206	2	2	O-RING (3/4" tube)	
	920107	2	6	PLUG (Incl. O-Ring)	
	921205	2	6	O-RING (3/8" tube)	
37	235967	1	1	WASHER, copper	
38	235968	1	1	WASHER, copper	



HYDRAULIC SYSTEM
W/ Fender Mounted Reservoir

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234673	1	TUBE ASSY., suction reservoir to pump (Used prior to Tr. S/N 8694)(25 G.P.M. Pump)	
	1 921236		ELBOW	
	1 921235		O-RING	
	234551	1	TUBE ASSY., suction reservoir to pump (Used prior to Tr. S/N 8694) (15 G.P.M. Pump)	
	1 921215		ELBOW	
	1 921214		O-RING	
	246415	1	TUBE ASSY., suction reservoir to pump (Eff. w/Tr. S/N 8694 & up)	
2	234633	1	HOSE ASSY., pump to valve (25 G.P.M. Pump) (f/tractors prior to S/N 8694)	
	1 921227		ELBOW (to pump)	
	1 921206		O-RING	
	234550	1	HOSE ASSY., pump to valve (15 G.P.M. & 11.5 G.P.M. Pump)	
	1 921203		ELBOW (to pump)	
	1 921206		O-RING	

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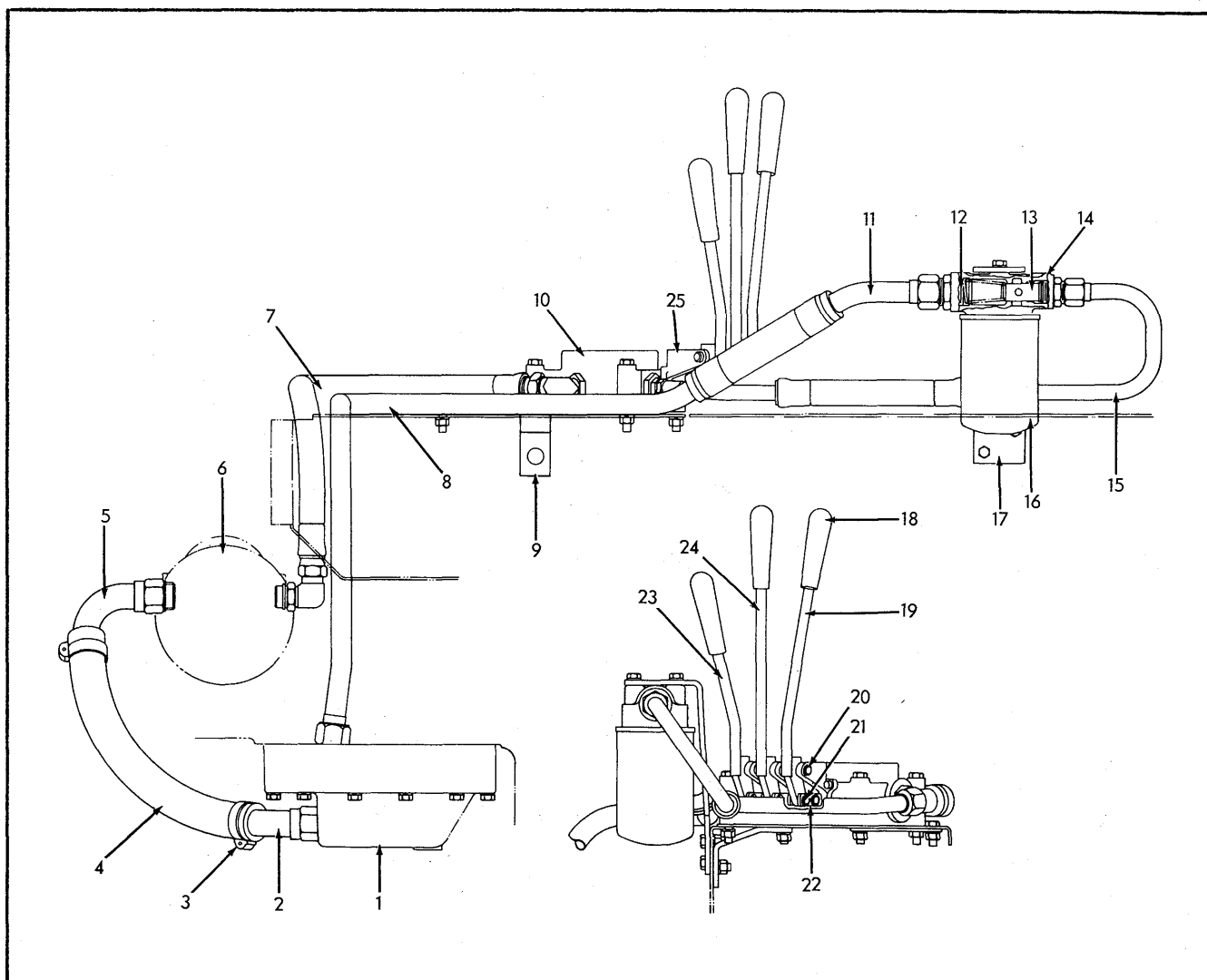
HYDRAULIC SYSTEM (Cont'd)
W/Fender Mounted Reservoir

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
3	234554	1	HOSE, suction (reservoir to pump)	
4	921912	2	CLAMP, suction hose	
5	-----	1	VALVE ASSY., control 3-spool (See Valve Group for Components)	
		3	905667 CAPSCREW (Valve mounting)	
		3	904206 LOCKWASHER	
		2	921203 ELBOW	
		2	921206 O-RING	
6	234417	6	PIN, lower, control valve snap ring	
7	240476	6	LINK, control valve	
8	{ 236424	1	PIN, upper control valve (f/2nd type levers)	
	{ 234425	3	PIN, upper control valve E-Ring (1st type levers)	
9	234426	9	E-RING, (7 used w/2ndtype levers)	
10	{ 234424	1	LEVER ASSY., inner control valve (1st type)	
	{ 236500	1	LEVER ASSY., inner control valve (2nd type w/Round knob)	
	{ 0236438-8	1	LEVER ASSY., inner control valve	
	{ 234423	1	LEVER ASSY., center, control valve (1st type)	
11	{ 236501	1	LEVER ASSY., center, control valve (2nd type round knob)	
12	{ 234420	1	LEVER ASSY., outer, control valve (1st type)	
	{ 236502	1	LEVER ASSY., outer, control valve (2nd type w/round knob)	
13	{ 233770	3	KNOB, control valve lever (1st type)	
	{ 230366	3	KNOB, control valve lever (round 2nd type)	
14	234569	1	TUBE ASSY., valve to filter	
		1	921217 CONNECTOR (to filter)	
		1	921206 O-RING	
15	-----	1	TRANSFER, hydraulic reservoir instruction. . 234052, 234310	
16	203196	1	CAP, breather, reservoir (Used w/1st type reservoir)	
17	{ 237195	1	CAP ASSY., (Incl. DIPSTICK) (2nd type)	
	{ 234560	1	CAP ASSY., (Incl. DIPSTICK) (1st type)	
18	{ 237194	1	SCREEN ASSY., reservoir (2nd type)	
	{ 234562	1	SCREEN ASSY., hydraulic reservoir (1st type)	
19	237193	1	RESERVOIR ASSY., hydraulic oil (Supersedes 234556)	
		7	903631 CAPSCREW	
		3	914900 WASHER, plain	
		1	904206 LOCKWASHER	
		1	910324 NUT, hex	

Continued

HYDRAULIC SYSTEM (Cont'd)
W/ Fender Mounted Reservoir

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
20	234567	1	BRACKET, filter mounting 4 903775 CAPSCREW 4 904206 LOCKWASHER 2 914900 WASHER, plain 2 910324 NUT, hex	
21	236908	1	HEAD, filter (Supersedes 234773)	
22	234565	1	PISTON, relief valve	
23	236834	1	SPRING, relief valve	
24	234568	1	TUBE ASSY., filter to reservoir 2 921214 O-RING	
25	239930	1	FILTER, hydraulic oil	
26	{ 225389	1	PLUG, drain	
	{ 226012	1	GASKET, drain plug	
27	{ -----	1	PUMP ASSY, 15 & 25 G.P.M. (Used prior to Tr. S/N 8694) (See Pump Group for components)	
	{ -----	1	PUMP ASSY., 11.5 & 25 G.P.M. (Eff. w/Tr. S/N 8694 & up) (See Pump Group for components)	
28	{ 234416	1	BRACKET, lever mounting (1st type)	
	{ 2 921182		CAPSCREW, socket head	
	{ 236436	1	BRACKET, (f/ mounting 2nd type levers)	



HYDRAULIC SYSTEM
F/Torque Housing Reservoir & Fender Mounted Valve

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234632	1	SUMP, oil , torque housing 14 921519 CAPSCREW 1 921214 O-RING 1 921227 ELBOW	
2	234652	1	TUBE ASSY., hose to sump	
3	921912	2	CLAMP, sump hose	
4	234554	1	HOSE, sump to pump	
5	234651	1	TUBE ASSY., hose to pump	
6	-----	1	PUMP ASSY., (See Pump Group for Components Parts)	
7	234653	1	HOSE ASSY., pump to valve (See page 219 f/making hose) 1 921203 ELBOW 1 921206 O-RING	
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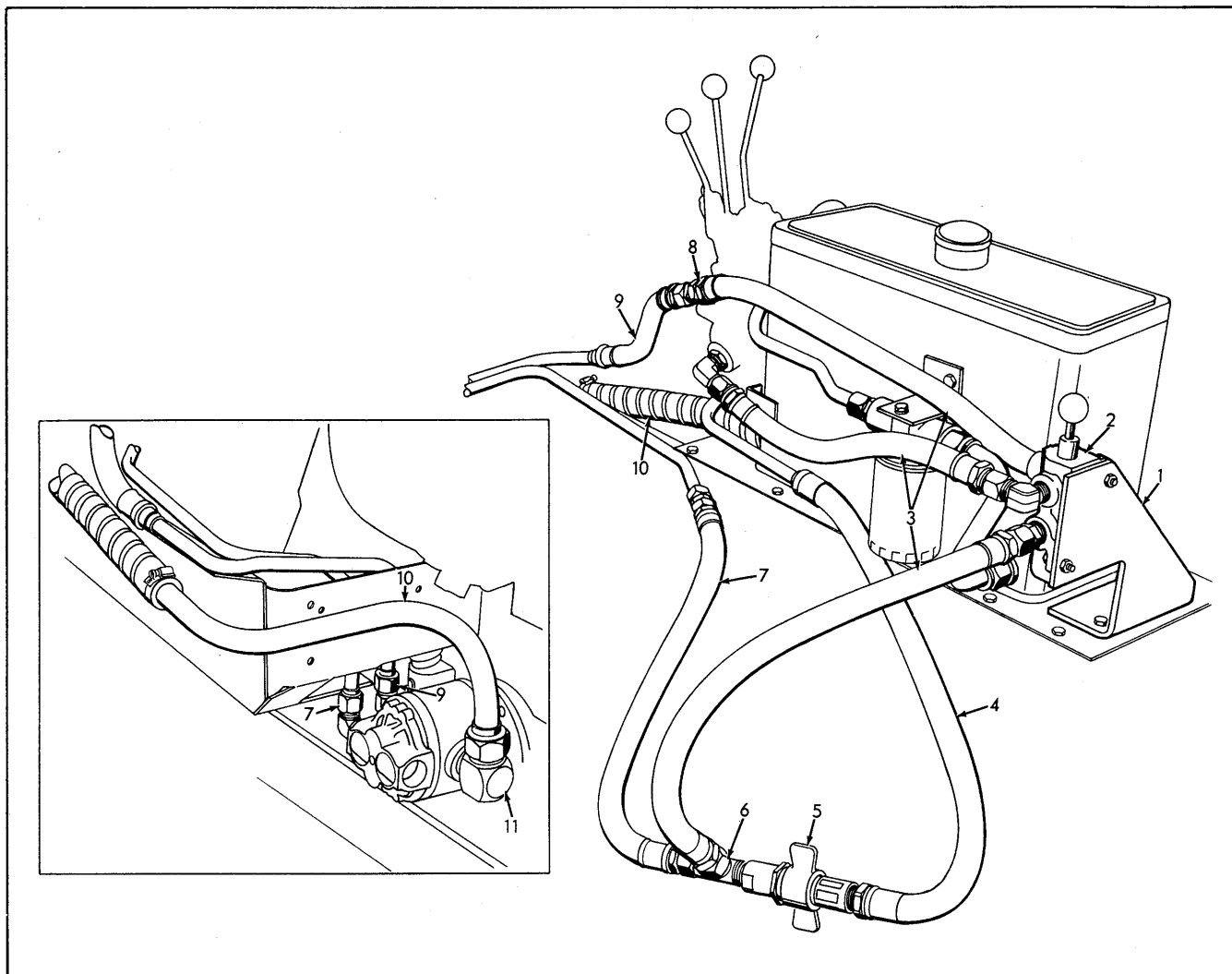
HYDRAULIC SYSTEM (Cont'd)
F/Torque Housing Reservoir & Fender Mounted Valve

ITEM	PART NUMBER	QTY.	DESCRIPTION
8	234624	1	EXTENSION ASSY., fender, R.H. 2 913997 BOLT 2 904206 LOCKWASHER 2 910324 NUT
9	234621	1	BRACKET, fender extension 1 919209 BOLT 1 904206 LOCKWASHER 1 910324 NUT
10	{ -----	1	VALVE, control (1 spool) (See Valve Group for Components)
	{ -----	1	VALVE, control (3 spool) (See Valve Group for Components)
11	235978	1	HOSE ASSY., filter to sump 1 921228 CONNECTOR (to filter) 1 921214 O-RING
12	236834	1	SPRING, relief valve
13	234565	1	PISTON, relief valve
14	236908	1	HEAD, filter (Supersedes 234773)
15	234654	1	HOSE ASSY., valve to filter 1 921217 CONNECTOR (to filter) (Incls. O-ring) 1 921206 O-RING
16	239930	1	FILTER, oil (Supersedes 234774)
17	234671	1	BRACKET, oil filter 4 903775 CAPSCREW 4 904206 LOCKWASHER 2 910324 NUT, hex
18	{ 233770	3	KNOB, valve control levers (1 used 1 spool) (1st type) (Rubber)
	{ 230366	3	KNOB, valve control levers (2nd type) (Round)
19	{ 234432	1	LEVER ASSY., outer (3 spool only) (1st type)
	{ 236498	1	LEVER ASSY., outer (3 spool only) (2nd type)
	{ 234425	3	PIN, upper (1 used 1 spool)
20	{ 236424	1	PIN, upper (2nd type-3 spool only)
	{ 234426	9	E-RING (3 used 1 spool)
21	234417	6*	PIN, lower control valve (2*used 1 spool)
22	234419	6*	LINK, control valve (2* used 1 spool)
23	{ 236496	1	LEVER ASSY., inner (3 spool only) (2nd type)
	{ 234430	1	LEVER ASSY., inner (3 spool only) (1st type)
	{ 0236435-4	1	LEVER ASSY., (3spool only) (1st type)
	{ 236497	1	LEVER ASSY., center (1 & 3 spool) (2nd type)
24	{ 234429	1	LEVER ASSY., center (1 & 3 spool) (1st type)
	{ 234416	1	BRACKET, lever mounting (1st type levers)
25	{ 2 921182		CAPSCREW
	{ 236426	1	BRACKET, lever mounting (2nd type levers)

EXTRA SPOOL VALVE & LINE 1 OR 3 SPOOL
Used w/Fender Mounted Valve
(Not Illustrated)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234271	1	VALVE ASSY., 3 spool (See CONTROL VALVE GROUP for components)	
	234270	1	VALVE ASSY., 1 spool (See CONTROL VALVE GROUP for components)	
		3	906695 CAPSCREW	
		3	904206 LOCKWASHER	
		3	910324 NUT	
		2	921203 ELBOW (top)	
		2	921206 O-RING	
2	234827	1	TUBE ASSY., return	
3	234826	1	HOSE, return	
4	234825	1	HOSE, pressure (front to rear valve)	
5	908944	1	PLUG, pipe (f/front valve)	
6	921318	1	TEE, w/back-up washer & locknut (f/front valve)	
7	234429	3	LEVER, valve control (1 used 1 spool)	

NOTE: For LEVER ATTACHING PARTS see
HYDRAULIC SYSTEM w/TORQUE HOUSING
RESERVOIR GROUP)



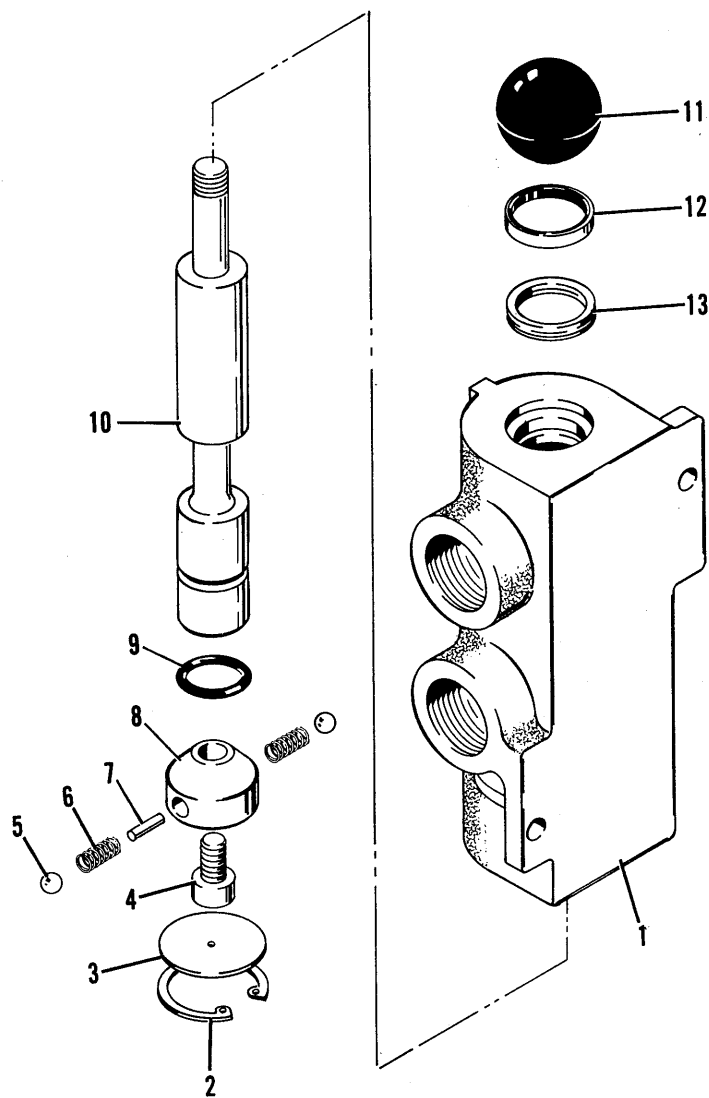
HYDRAULIC LINES
Loader & Backhoe
Eff. w/Tr. S/N 8694 & Up

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	246418	1	BRACKET, diverter valve	
2	249278	1	VALVE ASSY., diverter (See diverter valve group)	
3	234653	3	HOSE ASSY.	
		2	919269 ELBOW (to diverter valve)	
		1	921203 ELBOW (to control valve)	
4	2015489	1	HOSE ASSY., to backhoe valve	
5	2015491	1	COUPLING ASSY., quick disconnect	
6	921268	1	TEE	
7	246416	1	TUBE ASSY., pump to tee	
		1	919624 ELBOW (to pump)	
		1	921217 CONNECTOR	

Continued

HYDRAULIC LINES (Cont'd)
 Loader & Backhoe
 Eff. w/Tr. S/N 8694 & Up

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
8	919267	1	UNION, pressure hoses to diverter valve	
9	234550	1	TUBE ASSY., pump to union 1 919624 ELBOW (to pump) 1 921217 CONNECTOR	
10	-----	1	TUBE ASSY., suction (See Hyd. system group)	
11	922975	1	ELBOW, suction line	

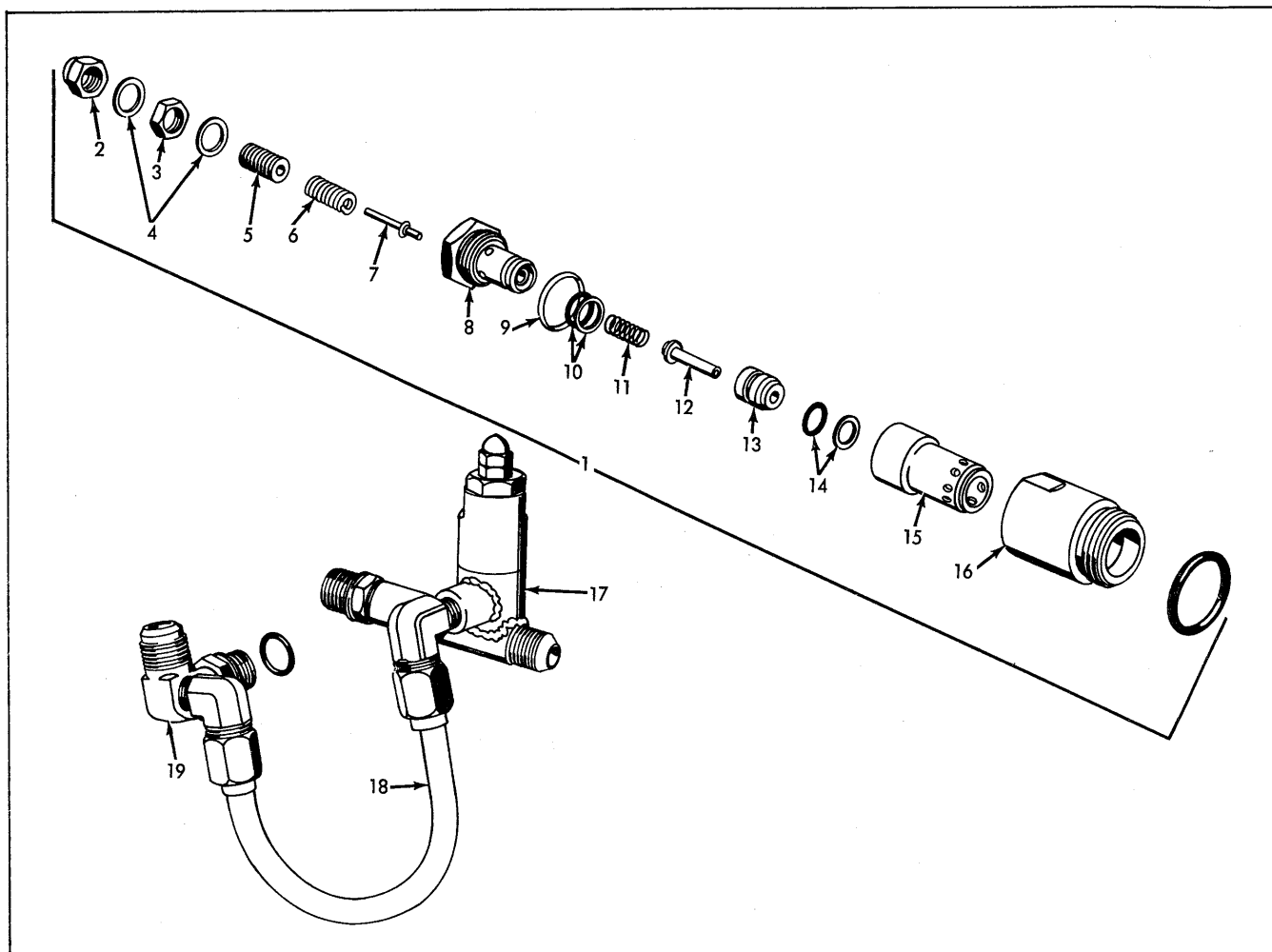


DIVERTER VALVE

ITEM	PART NUMBER	QTY.	DESCRIPTION
-	249278	1	VALVE ASSY., diverter
1	-----	1	BODY (Not serviced)
2	247786	1	RING, snap
3	247785	1	STOP
4	247783	1	SCREW
5	905358	2	BALL, 1/4
6	0249503-4	2	SPRING (Replaces 249303)
7	917559	1	PIN, dowel, 1/8 x 9/16
8	247781	1	PLUG
9	0923897-4	1	O-RING, 11/16 x 3/32 (Replaces 923379)
10	-----	1	SPOOL (Not serviced)
11	247787	1	KNOB
12	247784	1	SEAL, oil
13	247780	1	RING, quad.

ASSEMBLY OR
PACKAGE NO.

MEMO



CIRCUIT RELIEF VALVE
Used w/1066 Loader

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	241245	1	VALVE ASSY., circuit relief (Incls. items 2 thru 16)	
2	916559	1	NUT, cap	
3	910329	1	NUT, jam	
4	236760	2	WASHER, copper	
5	241237	1	SCREW, adjusting	
6	241239	1	SPRING, poppet pilot	
7	241236	1	POPPET, pilot	
8	241235	1	PLUG	
9	921206	2	O-RING	
10	241240	1	RING, back-up	
	241232	1	O-RING	
11	0241238-5	1	SPRING, poppet pilot (Replaces 241239)	

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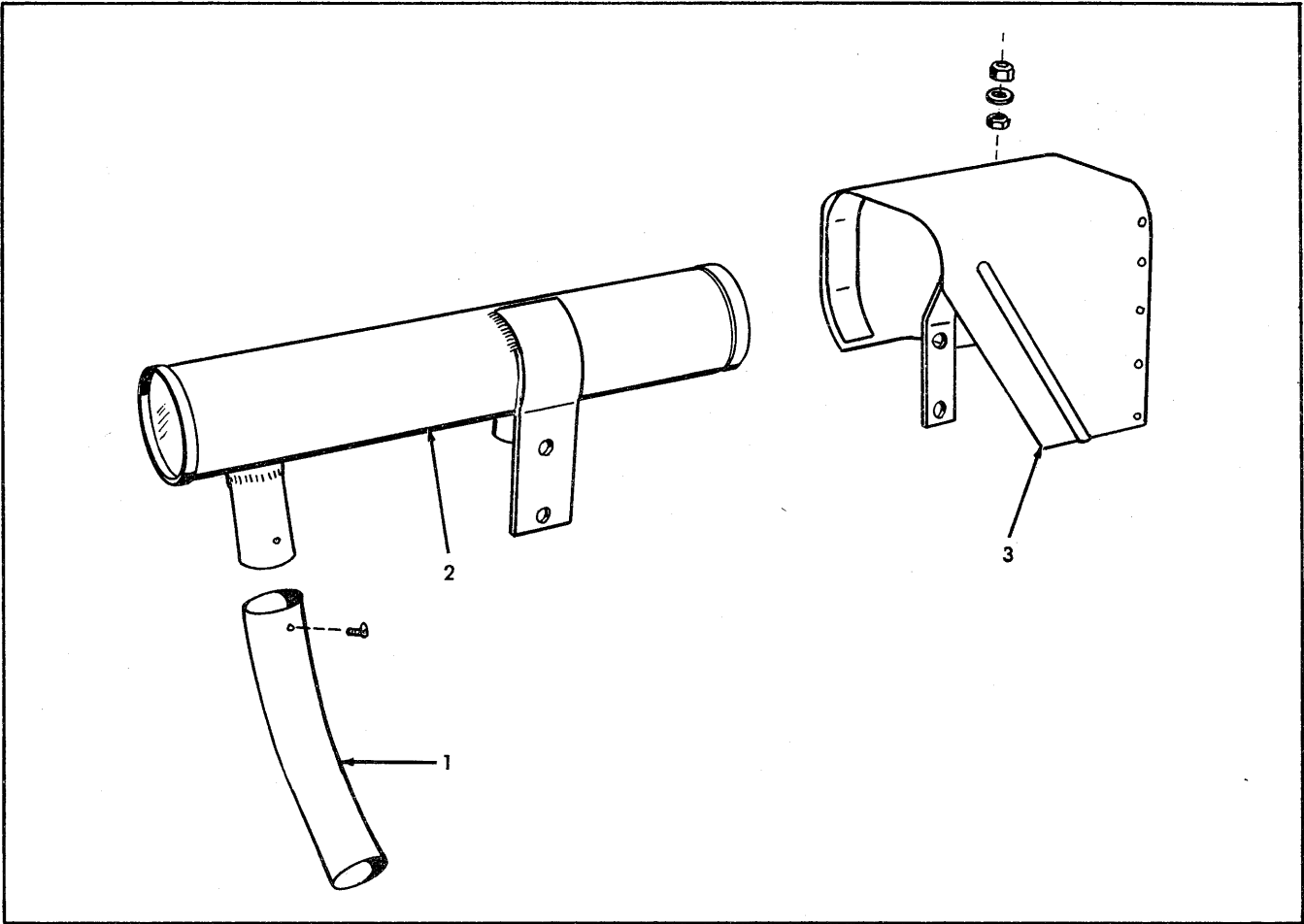
CIRCUIT RELIEF VALVE (Cont'd)
Used w/1066 Loader

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
12	241243	1	PISTON, poppet	
13	241242	1	POPPET, inner	
14	234265	1	O-RING	
	241244	1	RING, back-up	
15	241241	1	POPPET, outer	
16	241234	1	CAP, relief valve	
17	241263	1	TEE ASSY., circuit relief valve (Incls. back-up washer & locknut)	
18	241247	1	TUBE ASSY., sump	
		2	921511 ELBOW	
19	241246	1	ELBOW, by-pass (Incls. O-RING)	
		1	921206 O-RING	

NOTE: When backhoe is installed by-pass elbow
is replaced with tee.

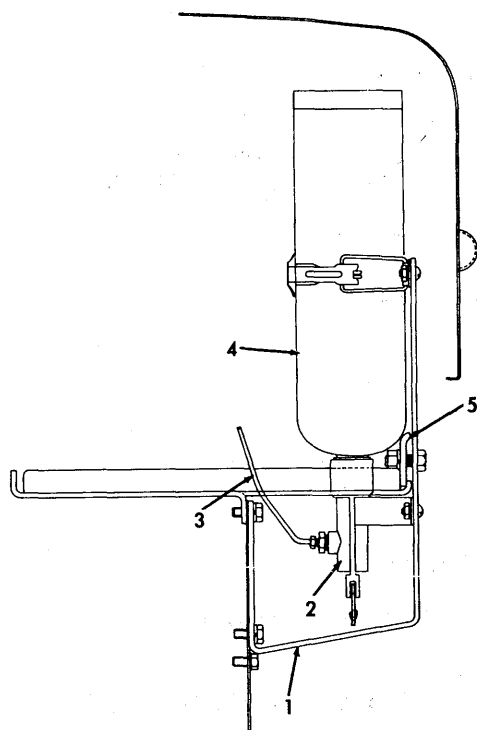
BY-PASS VALVE GROUP
For 15 or 25 G. P. M. Pumps
(Not Illustrated)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	236417	1	VALVE, needle	
2	237098	1	TUBE ASSY., by-pass	
3	236420	1	TEE, by-pass	
4	227215	1	ELBOW, street, 90° 1/4"	
5	901478	1	NIPPLE, pipe	
6	237097	1	PLUG	
7	914328	1	ELBOW, male, 3/8" tube x 1/4"	
8	917496	1	ELBOW, male, 45° 3/8" tube x 1/4"	



LOW CLEARANCE MUFFLER
Gasoline

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	230181	1	EXTENSION, muffler 1 907894 SCREW, s-tapping	
2	230171	1	MUFFLER, exhaust	
3	230172	1	DEFLECTOR ASSY., heat 1 910329 NUT, jam 1 911115 WASHER, plain 1 919219 NUT, lock	



ETHER STARTING SYSTEM

Diesel

ITEM	NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	240393	1	BRACKET, fuel cylinder	
		2	921959 CAPSCREW, (to side sheet)	
		2	916964 WASHER, lock	
		4	916080 SCREW ,machine (to cyl. bracket)	
		4	917365 WASHER, lock	
		4	916621 NUT	
2	0251436-2	1	KIT, repair, metering valve (Replaces 240594)	
3	-----	1	TUBE, 33" long (Not Serviced - Obtain Locally)	
4	240028	1	CARTRIDGE , fuel cyl. , replacement	
		1	0916080-5 SCREW	
		1	0917365-9 WASHER	
		1	0916621-6 NUT	
5	240395	2	CLIP, bracket support	
		2	919319 CAPSCREW	
		2	917365 WASHER , lock	
		2	917372 NUT	
6	0251428-9	1	CABLE, valve control (Replaces 250213)	
7	240834	1	FITTING ASSY., manifold pipe (NOTE: Tractors prior to S/N 6438 do not have tapped hole in manifold pipe) (Not Illustrated)	
8	240394	1	BRACKET, cable (Installed at R. H. side of instrument panel) (Not Illustrated)	
-	0240834-2	1	FITTING ASSY., (Not Illustrated)	
-	0251885-0	1	TUBE, cylinder (Not Illustrated)	
-	0251887-6	1	BRACKET ASSY., clamp (Not Illustrated)	
-	0253308-1	1	STOP ,cable (Not Illustrated)	
		1	0917384-0 SCREW	

TOOL BOX (Gasoline)
(Not Illustrated)

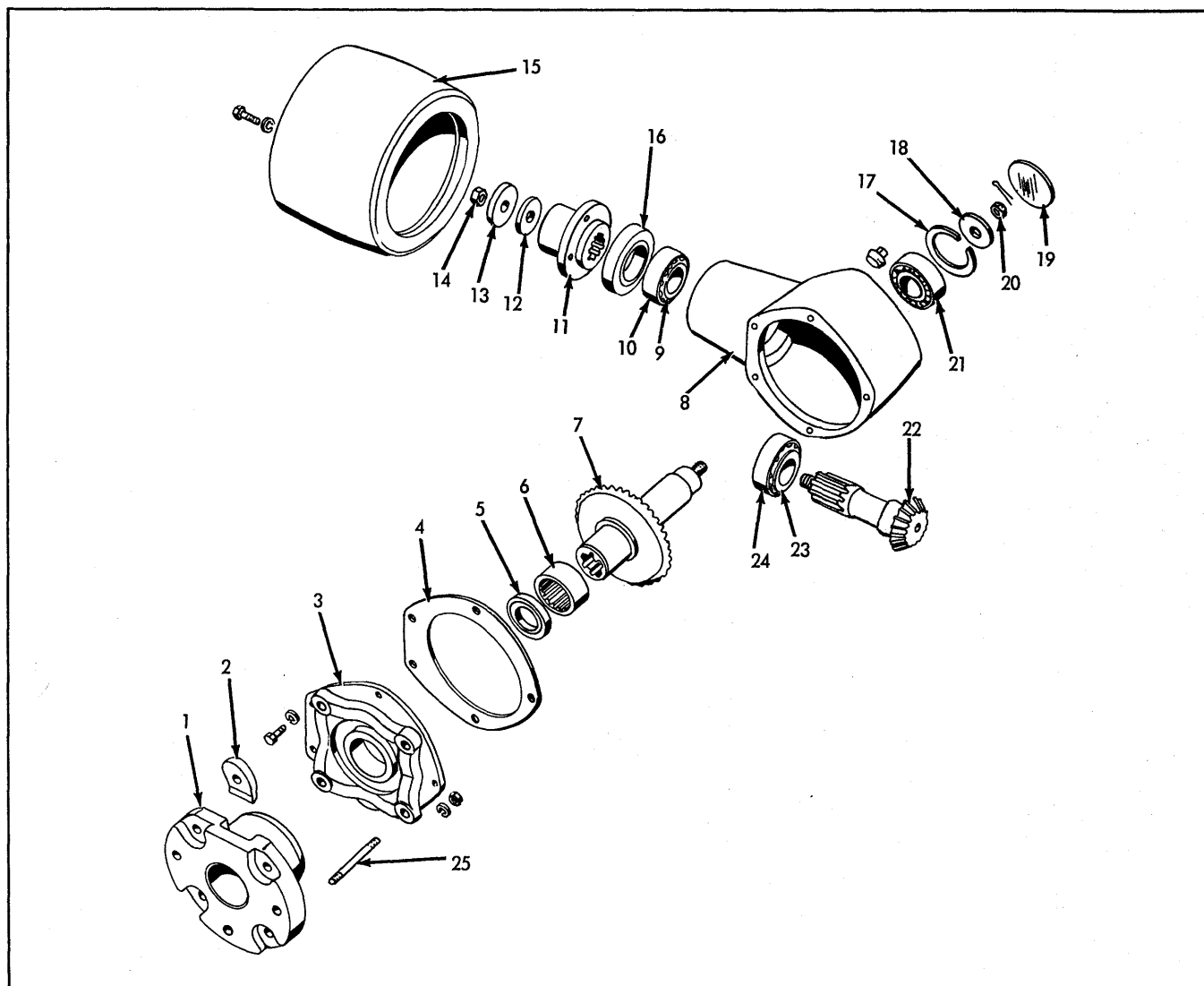
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234069	1	BOX ASSY., tool 4 910211 CAPSCREW 4 904206 LOCKWASHER	
2	234067	2	BAR, reinforcement	
3	234068	2	BLOCK, tapping	

PULL HOOK
(Not Illustrated)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	0050543-8	1	HOOK, pull (Replaces 235528)	
2	235527	4	CAPSCREW 1 904369 LOCKWASHER	

TOOL BOX
(Not Illustrated)
Gasoline or Diesel
W/O Fender Mounted Reservoir

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	235530	1	BOX ASSY., tool 4 903629 CAPSCREW 4 911115 WASHER 4 904206 LOCKWASHER 4 910324 NUT	



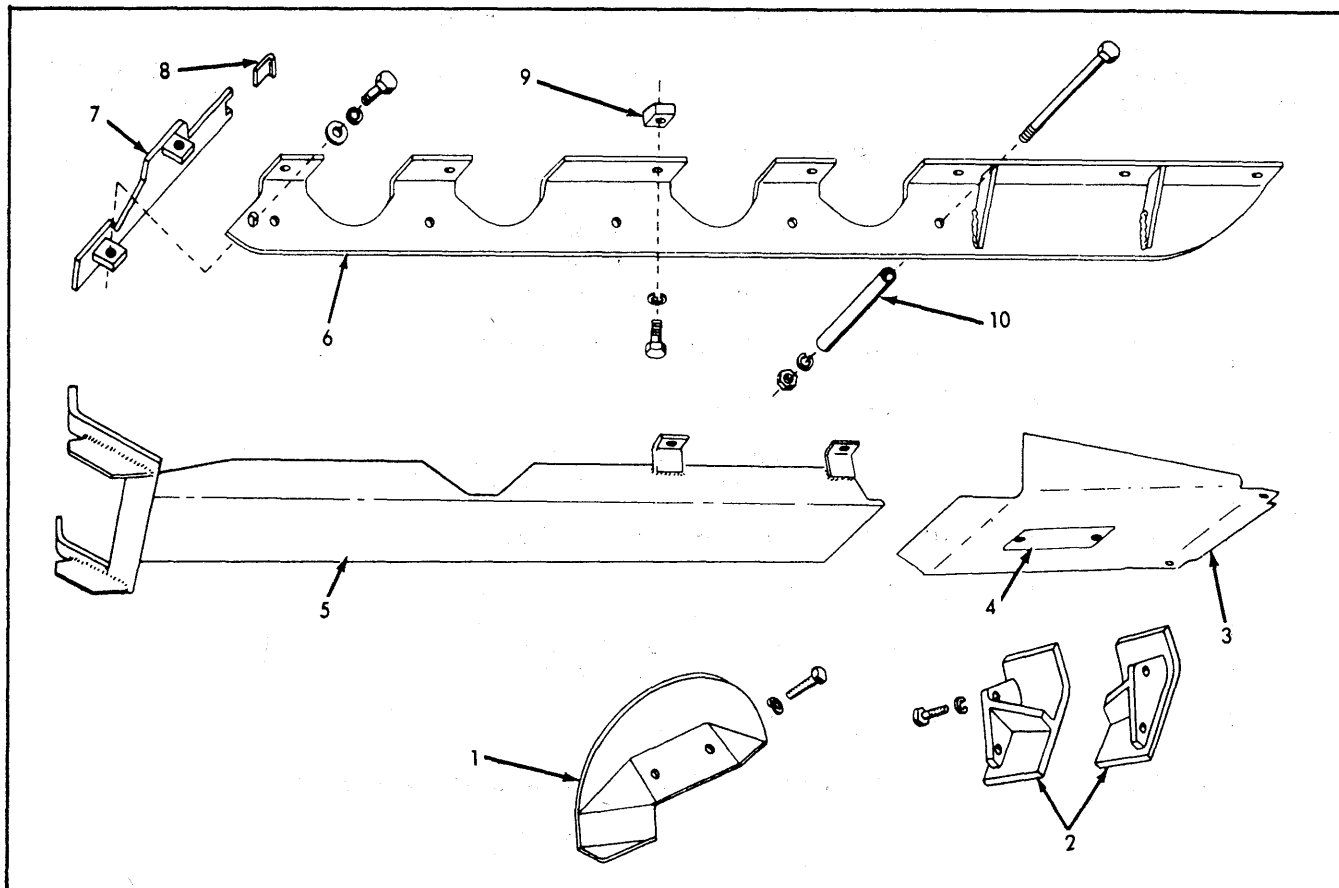
BELT PULLEY

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	237401	1	ADAPTOR, pulley to transmission housing	
			4 913729 CAPSCREW	
			4 904207 LOCKWASHER	
			2 916316 CAPSCREW, side	
			2 904208 LOCKWASHER	
2	237037	1	CLAMP, adaptor	
			1 916314 CAPSCREW	
			1 904208 LOCKWASHER	
3	237428	1	HOUSING, input bearing	
			5 912187 CAPSCREW	
			5 904207 LOCKWASHER	
4	0722884-4	1	GASKET housing (Replaces 237675)	
5	0722883-6	1	SEAL, oil (Replaces 237676)	
6	237677	1	BEARING, drive gear	

Continued

BELT PULLEY (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
7	-----	1	GEAR ASSY., pulley drive (Serviced only in sets) .	.240047
8	237674	1	HOUSING, pulley drive 1 912726 PLUG, pipe	
9	211999	1	CONE, bearing	
10	209890	1	CUP, bearing	
11	237684	1	HUB, pulley drive pinion	
12	237685	1	SEAL oil	
13	900820	1	WASHER, pulley drive shaft	
14	916591	1	NUT, self locking	
15	237400	1	PULLEY 4 904207 LOCKWASHER 4 913729 CAPSCREW	
16	237683	1	SEAL oil	
17	237679	1	RING, snap	
18	237680	1	WASHER, drive gear	
19	911261	1	PLUG, expansion	
20	912740	1	NUT, slotted, drive gear 1 900806 PIN, cotter	
21	802379	1	BEARING ASSY., ball	
22	-----	1	PINION, drive (Serviced only in sets)	240047
23	228509	1	CONE, bearing	
24	237682	1	CUP, bearing	
25	237429	1	STUD 1 904208 LOCKWASHER 1 910325 NUT	



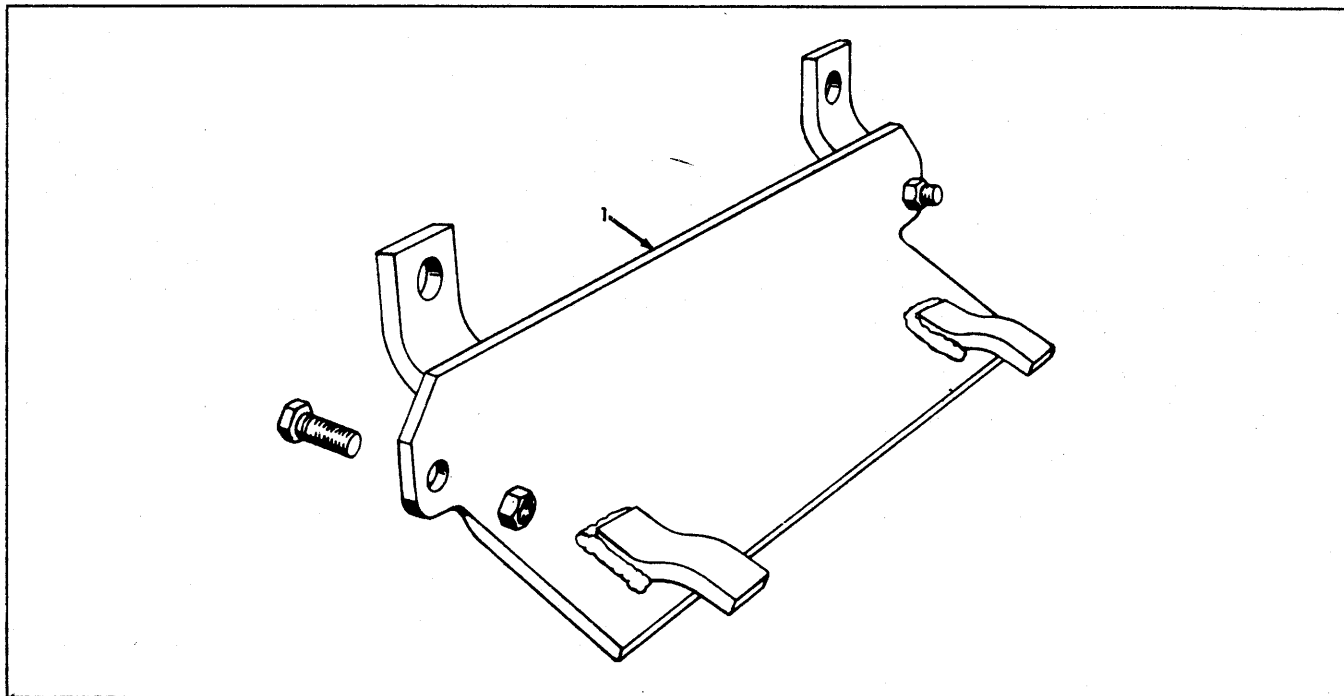
ROCK & BOTTOM PAN GUARDS

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234362	2	GUARD ASSY., idler, L.H.	
	234366	2	GUARD ASSY., idler, R.H.	
		2	911980 CAPSCREW	
		2	904208 LOCKWASHER	
2	234374	2	GUARD, front, L.H., idler	
	234375	2	GUARD, front, R.H., idler	
		2	903637 CAPSCREW	
		2	904208 LOCKWASHER	
3	234731	1	PAN ASSY., bottom, front	
		2	916314 CAPSCREW	
		2	910244 LOCKWASHER	
		2	921243 CAPSCREW	
		2	904208 LOCKWASHER	
		2	910325 NUT, hex	
4	234736	1	COVER, crankcase drain	
		2	903629 CAPSCREW	
		2	904206 LOCKWASHER	

Continued

ROCK & BOTTOM PAN GUARDS (Cont'd)

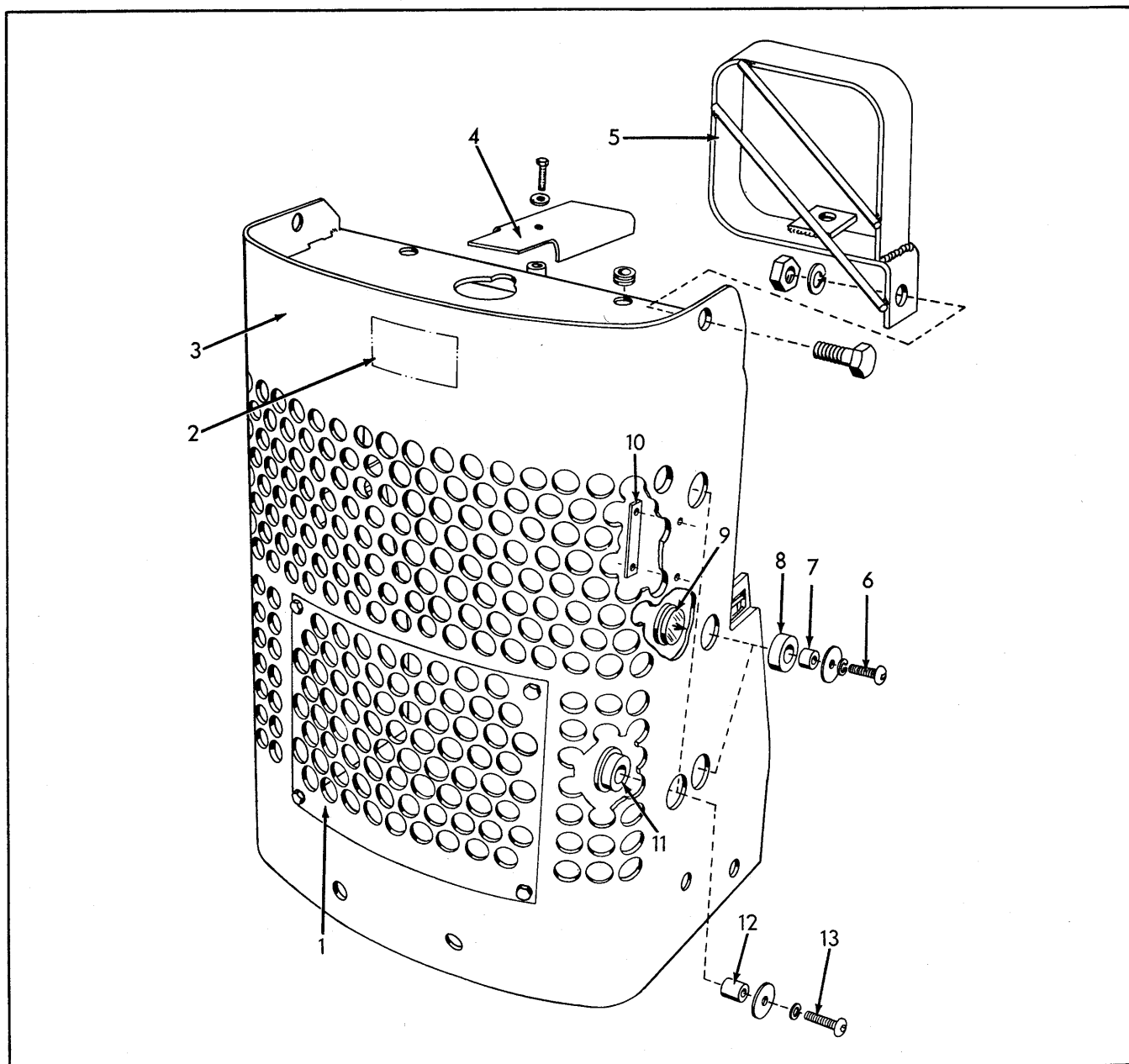
ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
5	234737	1	PAN ASSY., bottom, rear	
		2	916314 CAPSCREW	
		2	910325 NUT, hex	
		2	920574 CAPSCREW	
		4	910244 WASHER	
		4	904208 LOCKWASHER	
6	236701	2	GUARD, truck frame, L.H. (4 roller)	
	236702	2	GUARD, truck frame, R.H. (4 roller)	
		7	913105 CAPSCREW	
		7	904208 LOCKWASHER	
	236689	2	GUARD, truck frame, L.H. (5 roller)	
	236690	2	GUARD, truck frame, R.H. (5 roller)	
		8	913105 CAPSCREW	
		8	904208 LOCKWASHER	
7	236695	2	CLOSURE ASSY., L.H. rear	
	0252488-2	2	CLOSURE ASSY., R.H. rear (Replaces 236694)	
		2	913827 CAPSCREW	
		2	904209 LOCKWASHER	
		1	911385 WASHER, plain	
8	236692	4	CLIP, closure (Eff. w/Serial No. 3130 & up, clips are welded to truck frame)	
9	233746	12	BLOCK, tapping	
		1	913105 CAPSCREW	
		1	904208 LOCKWASHER	
10	236698	10	SPACER, guards (12 used 5 roller)	
		1	910800 BOLT, w/o nut	
		1	904209 LOCKWASHER	
		1	910308 NUT	



BOTTOM PAN ADAPTER
H3 & HD3 TRACTORS w/ WINCH

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	246913	1	ADAPTER ASSY.	
		2	921525 CAPSCREW, 1/2NC x 1-3/4	
		2	904208 LOCKWASHER, 1/2	
			910325 NUT, 1/2NC	

MEMO



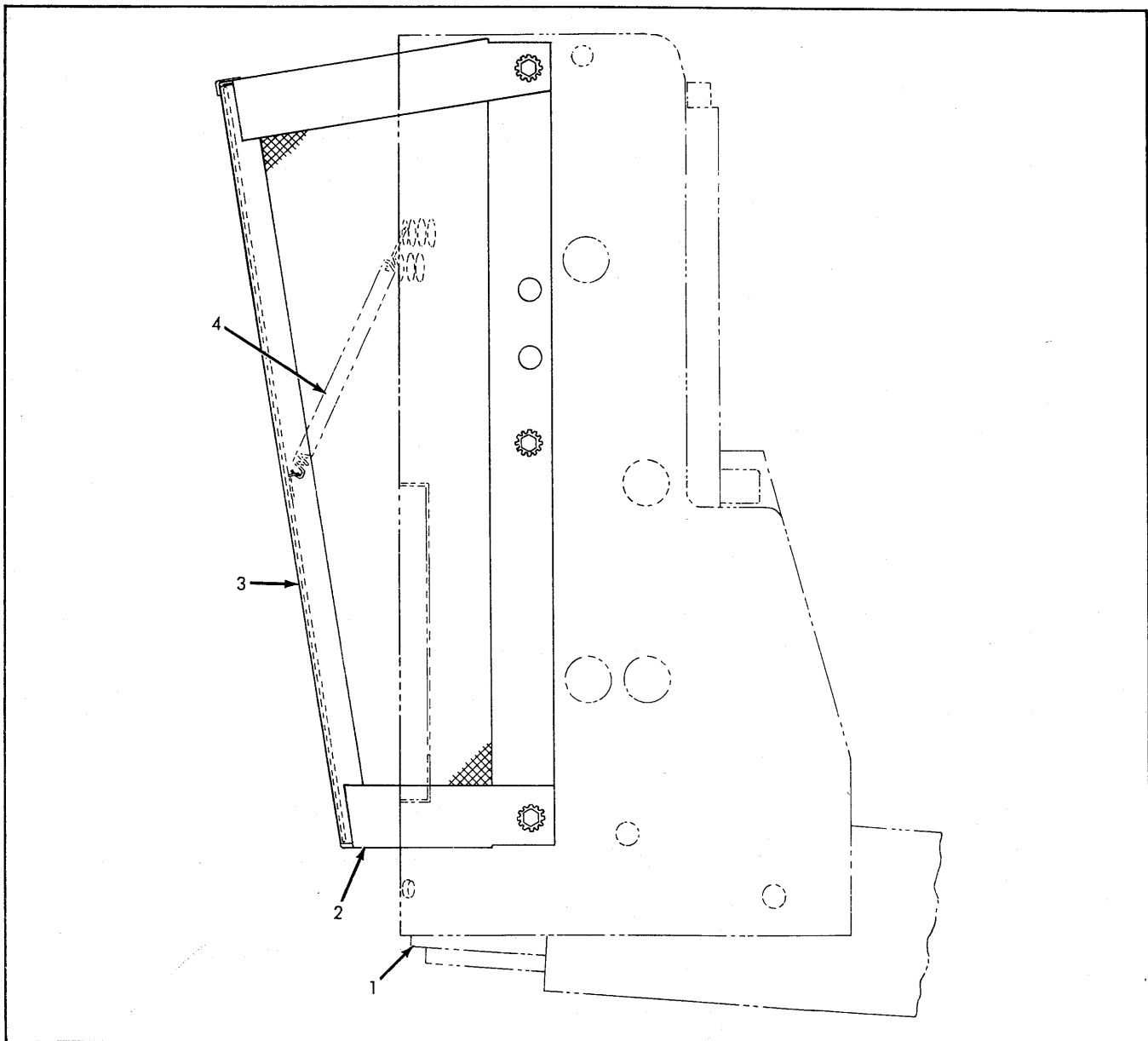
GRILLE - HEAVY DUTY

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234478	1	DOOR, grille	
			4 918228 CAPSCREW	
			4 904206 LOCKWASHER	
	234479	1	SPACER, grille door	
2	234767	1	TRANSFER, H-3 (Gasoline)	
	234768	1	TRANSFER, HD-3 (Diesel)	

Continued

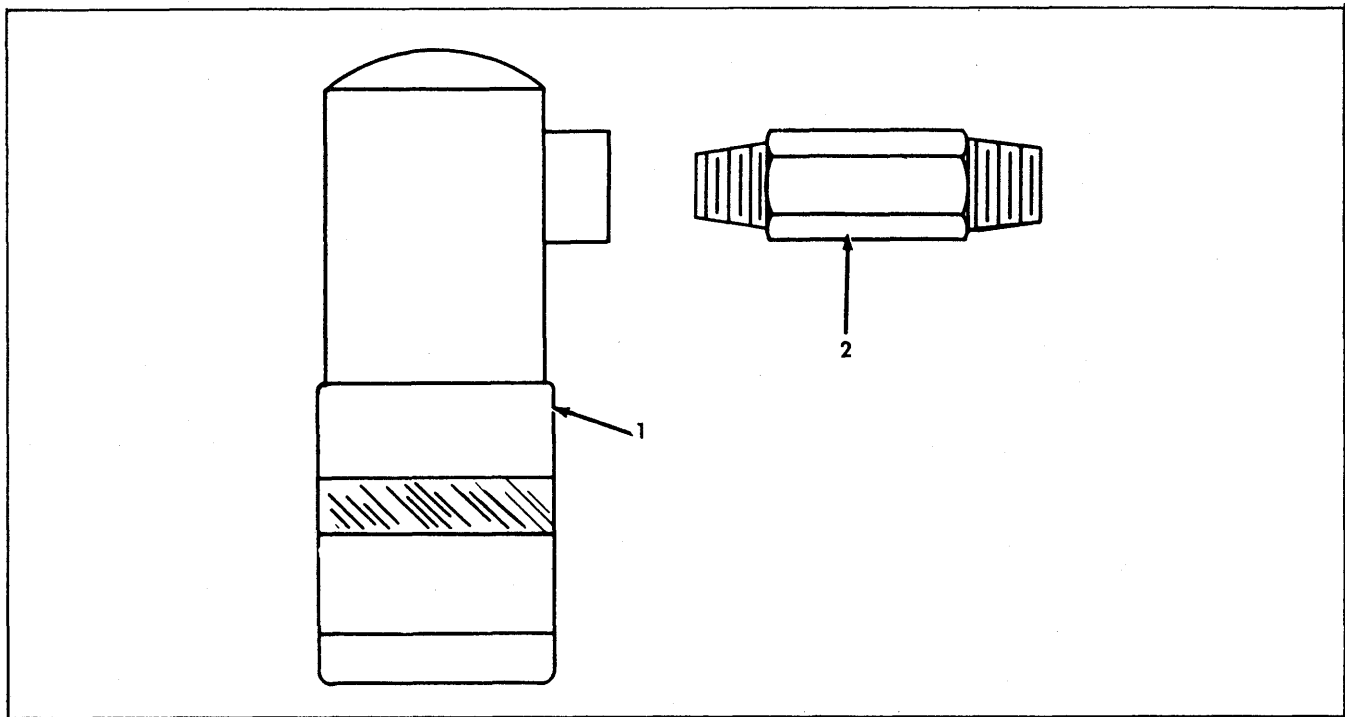
GRILLE - HEAVY DUTY (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION
3	238902	1	GRILLE ASSY., heavy duty (Diesel Tractor)(Effective with Serial No. 6192 and up)
	234472	1	GRILLE ASSY., heavy duty (Gas Tractor) (Diesel Tractor prior to Serial No. 6192)
	2	916404	CAPSCREW (front)
	4	916406	CAPSCREW (side)
	6	904209	LOCKWASHER
	4	900575	SCREW (shuttle clutch only)
4	234476	1	EXTENSION, channel
		1	903628 CAPSCREW
		1	904206 LOCKWASHER
5	234527	1	GUARD ASSY., R.H. headlamp
	234522	1	GUARD ASSY , L.H. headlamp
	1	903643	CAPSCREW
	1	904209	LOCKWASHER
	1	910308	NUT, hex
	1	921229	GROMMET, rubber
	NOTE: For Lamp Assemblies See Electrical System Group (Gasoline)		
6	234480	4	CAPSCREW (gas tractor) (Diesel Tractor prior Serial No. 6192)
		4	916006 WASHER, plain
		4	906959 LOCKWASHER
7	234481	4	SPACER (gas tractor) (Diesel tractor prior to Serial No. 6192)
8	234482	4	GROMMET (gas tractor) (Diesel Tractor prior Serial No. 6192)
9	237858	4	PLUG, rubber (Gas or diesel prior to Tractor Serial No. 6192)
10	235652	*	SHIM (*use as required) shuttle clutch tractor only
11	237818	4	GROMMET (Diesel tractor effective w/Serial No. 6192 & up)
12	237817	4	SPACER (Diesel tractor effective w/Serial No. 6192 and up)
13	237819	4	CAPSCREW (Diesel tractor effective w/Serial No. 6192 and up)
		4	916006 WASHER , plain
		4	906959 LOCKWASHER



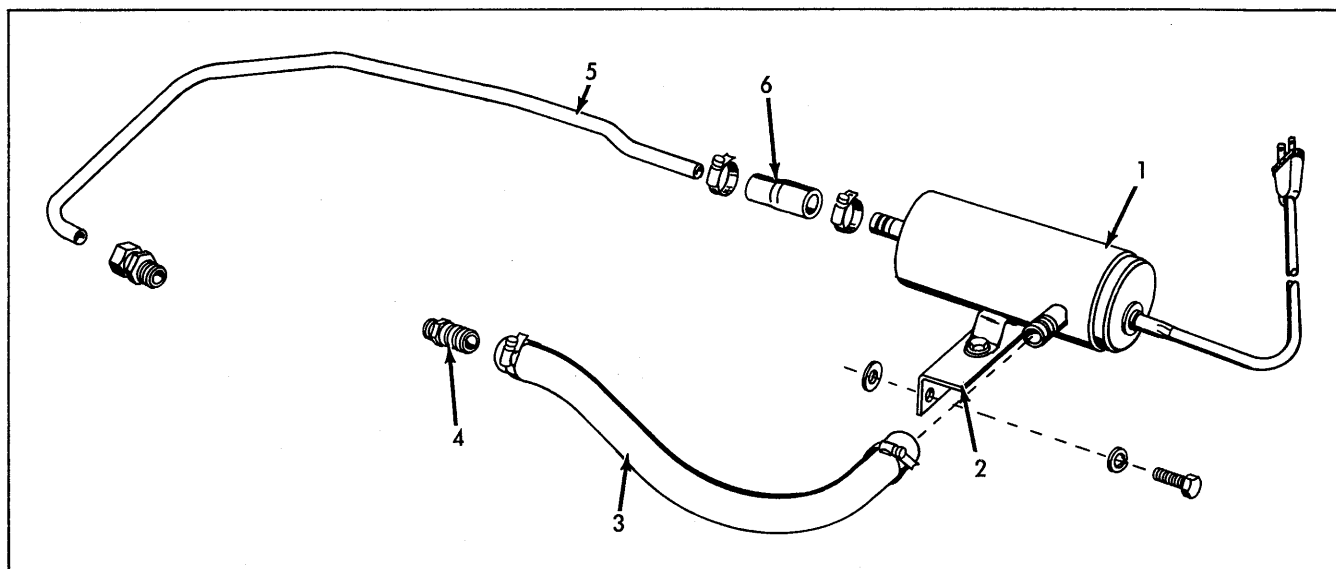
RADIATOR GRILLE SCREEN
f/54' Tread Muckland Tractor

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	236813	*	PAD, sealing (* use as required)	
2	237889	1	MOUNTING ASSY., screen	
		6	905660 CAPSCREW	
		6	915897 LOCKWASHERS	
3	237899	1	SCREEN ASSY., front	
4	224793	1	SPRING	



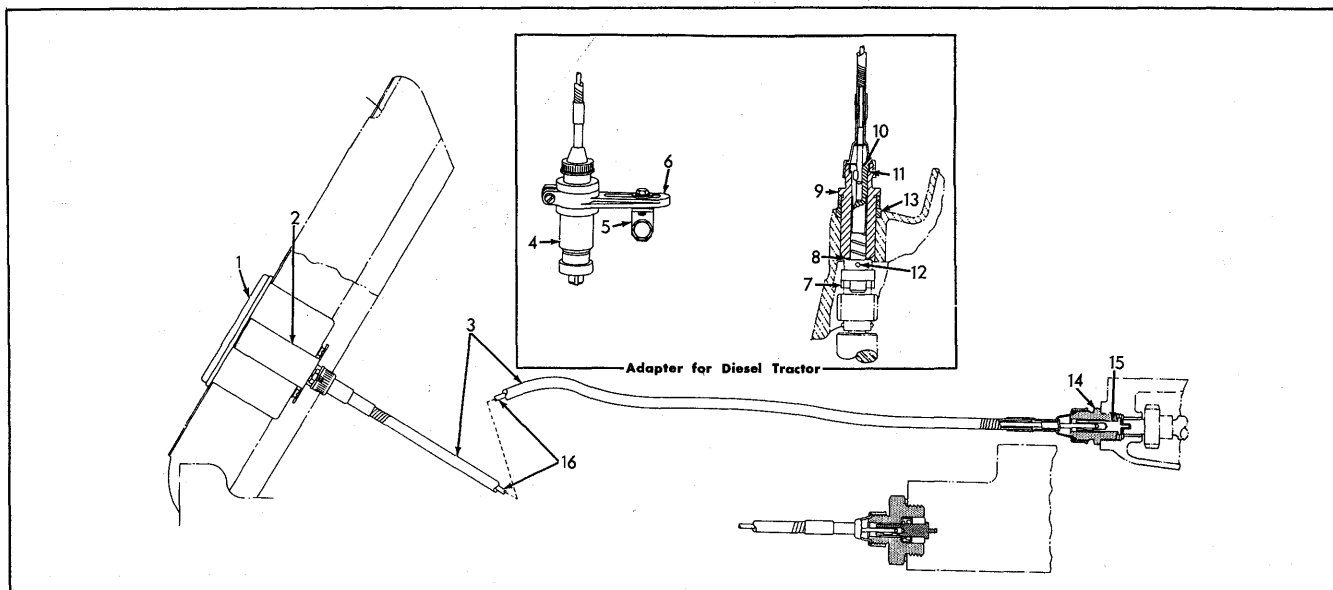
AIR CLEANER RESTRICTION INDICATOR

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	240871	1	INDICATOR, air cleaner restrictor (gas)	
	4388648	1	INDICATOR, air cleaner restrictor (diesel)	
2	3038547-0	1	NIPPLE, indicator to intake manifold (Diesel) (Replaces 241056)	
3	246859	1	SUPPORT, indicator (gas)	
4	-----	1	TUBE, (Use 12" of 911676)	
		1	913474 ELBOW	
		1	910199 CONNECTOR	
		1	901467 NIPPLE, pipe	
				Not Illustrated



ENGINE WATER HEATER
Diesel Tractor Optional Equip.

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	240706	1	HEATER, water 1000 Watt	
		2	908295 CAPSCREW	
		2	916964 LOCKWASHER	
		2	921319 WASHER, plain	
		2	916622 NUT, hex	
2	240196	1	BRACKET, heater	
		3	911115 WASHER, plain	
		3	903630 CAPSCREW	
		3	904206 LOCKWASHER	
3	4718638	1	HOSE, block drain to heater	
		2	921911 CLAMP, hose	
4	240226	1	ADAPTOR, hose	
5	241734	1	TUBE, heater to thermostat hsg.	
		1	922052 CONNECTOR	
6	4718638	1	HOSE, tube to heater	
		2	921911 CLAMP, hose	



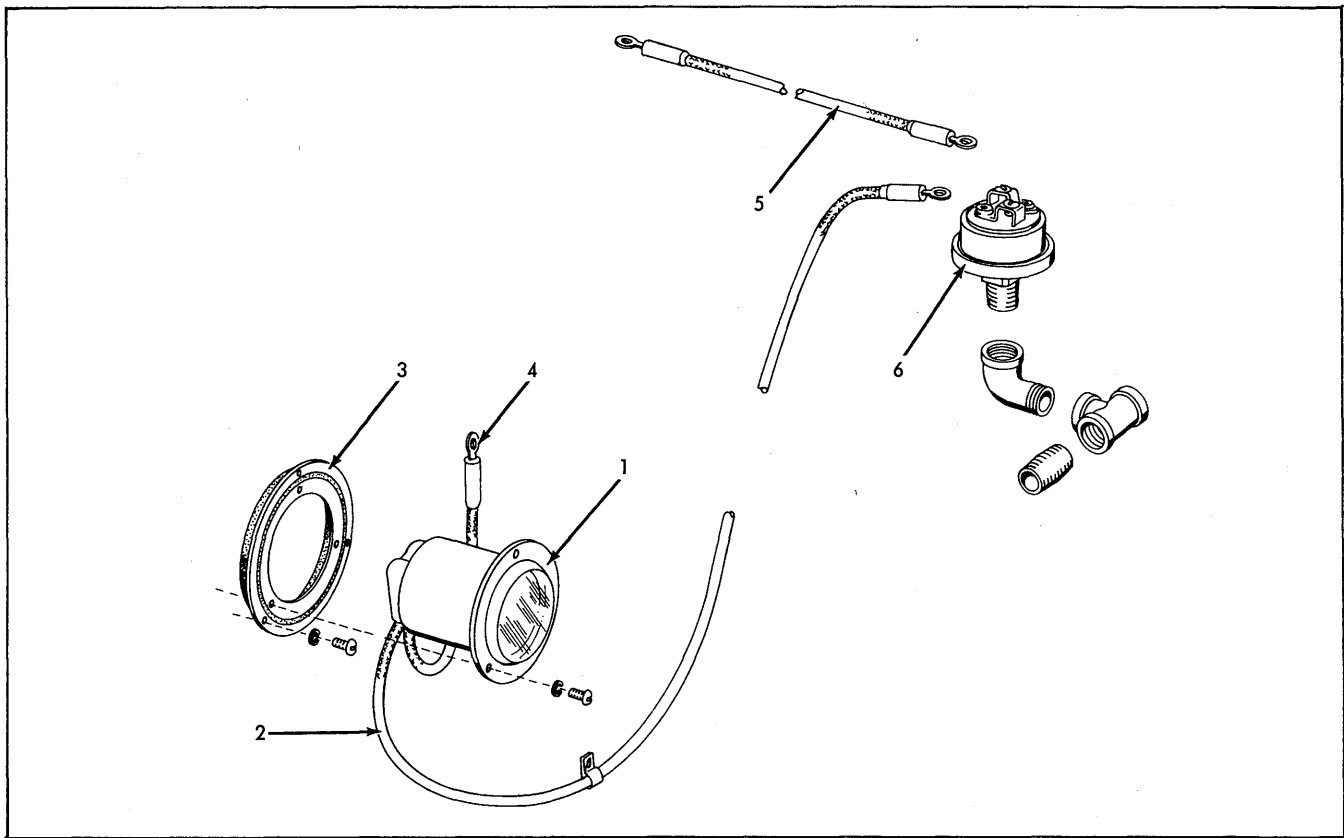
OPERATION METER & FLEXIBLE DRIVE SHAFT

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	234456	1	METER ASSY., operation (Gasoline Tractor) (Used prior to Tr. S/N 8694)	
	246356	1	METER ASSY., operation (Gasoline Tractor) (Eff. w/Tr. S/N 8694 & up)	
	234457	1	METER ASSY., operation (Diesel Tractor) (Used prior to Tr. S/N 8694)	
	246357	1	METER ASSY., operation (Diesel Tractor) (Eff. w/Tr. S/N 8694 & up)	
2	228766	1	CLAMP, meter mounting	
		2	917415 SCREW, machine	
		2	904203 LOCKWASHER	
3	228767	1	SHAFT ASSY., flexible (Gasoline) (Incls. item 16)	
	233639	1	SHAFT ASSY., flexible (Diesel) (Incls. item 16)	
4	4511668	1	ADAPTOR ASSY., operation meter drive (Diesel) (Incl. ITEMS 6 thru 12)	
5	4511728	1	CLIP (Diesel)	
		1	917033 CAPSCREW (To Clamp)	
		1	904204 LOCKWASHER	
		1	911114 WASHER	
		1	903626 CAPSCREW (To Block)	
		1	904205 LOCKWASHER	
6	4503751	1	CLAMP, adaptor (Diesel)	
		1	906795 SCREW, mach.	
		1	910251 NUT	
7	4376080	1	CLUTCH, drive (Diesel)	
8	4050192	1	WASHER, (Diesel)	
9	-----	1	SLEEVE, swivel joint (Diesel) (Not Serviced Separately)	

Continued

OPERATION METER & FLEXIBLE DRIVE SHAFT (Cont'd)

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
10	-----	1	SHAFT, driven (Diesel) (Not Serviced Separately)	
11	4050190	1	WASHER (Diesel)	
12	4511643	1	PIN, drive (Diesel)	
13	4501776	1	SEAL, oil (Diesel)	
14	228769	1	NIPPLE, drive (Gasoline)	
15	228768	1	ADAPTOR, operation meter drive (Gasoline)	
16	{ 244106	1	CABLE ASSY., flexible shaft, inner (Diesel)	
	{ 244105	1	CABLE ASSY., flexible shaft, inner (Gasoline)	



HOUR METER

ITEM	PART NUMBER	QTY.	DESCRIPTION	ASSEMBLY OR PACKAGE NO.
1	1003683-8	1	METER ASSY., hour (Replaces 246170)	
	234588	1	METER ASSY., hour (Used prior to Tr. S/N 8694)	
	6 917438		SCREW, mach.	
	6 920240		LOCKWASHER	
2	246173	1	CABLE, hour meter to pressure switch (Eff. w/Tr. S/N 8694)	
	234802	1	CABLE, hour meter to pressure switch (Used prior to Tr. S/N 8694)	
	1 901309		NUT	
	230238	1	CLIP	
3	235529	1	DAMPER, vibration	
4	234803	1	CABLE, hour meter to ground (Used prior to Tr. S/N 8694)	
	1 901309		NUT	
5	246390	1	CABLE, pressure switch inst. feed (Eff. w/Tr. S/ N 8694)	
	228341	1	CABLE, pressure switch to ammeter (Used prior to Tr. S/N 8694)	
6	246171	1	SWITCH, pressure (Eff. w/Tr. S/N 8694)	
	1 924183		TEE	
	235531	1	SWITCH, pressure (Used prior to Tr. S/N 8694)	
	1 901702		TEE	
	1 901467		NIPPLE	
	1 907059		ELBOW	
			218	

BULK HYDRAULIC HOSE & COUPLING

PART NO.	BULK HOSE NO.	LENGTH	COUPLING	
			END	END
234653	Use 240046	24-3/4"	922559	922559

UNIVERSAL CARRIER BRACKET GROUP LOADER (FIELD INSTALLATION) (Not Shown)

ITEM	NUMBER	QTY	DESCRIPTION
1	0249031-6	1	FRAME ASSY., rear mount
2	0925149-7	8	CAPSCREW, 3/4 UNC x 2 1/2 Gr. 5
		1	0919332-7 Washer, lock 3/4
3	0249032-4	1	BRACE ASSY., R.H.
4	0249033-2	1	BRACE ASSY., L.H.
5	0922659-8	2	NUT, 1" UNC
		1	0922020-3 Washer, lock
6	0249542-2	2	PIN
7	0919109-9	2	NUT, lock 1" UNF
		2	0910889-5 Washer (As Req'd)

ASSEMBLIES & PACKAGE PARTS

ASSEMBLY OR PACKAGE NO.

DESCRIPTION

220009	GASKET SET, carburetor	
	1	219998 GASKET, float valve seat
	1	219976 GASKET, throttle body to bowl
	1	219999 GASKET, power jet
	1	219995 GASKET, high speed needle
	1	203205 GASKET, flange
225750	PUMP KIT, water (Gasoline)	
	1	207823 SEAL, shaft (Rubber)
	1	207824 RING, clamp, shaft seal
	1	207825 SPRING, shaft seal
	1	207826 GUIDE, shaft seal spring
	1	207827 WASHER, shaft seal carbon
	1	207828 RING, snap, impeller
	1	207829 RING, snap body (f/bearing)
	1	210830 GASKET, cover to body
	1	203061 GASKET, body to cylinder block
	1	207832 GASKET, cover to body
	1	207001 GASKET, pump to cylinder block
228938	FACING KIT, clutch (shuttle clutch)	
	2	----- FACING
	14	911005 RIVET
229867	CABLE SET, spark plug (Distributor Ignition)	
	1	----- CABLE, coil to distributor
	2	----- CABLE, #1 and #2
	1	----- CABLE, #3
	1	----- CABLE, #4
230092	RING SET, piston (Expander type) (Chrome faced) (Gasoline)	
	(Used prior to Tractor Serial 6959)	
	4	230197 RING, compression (Top)
	4	227564 RING, compression (Second)
	4	230198 RING, compression (Third)
	4	230199 EXPANDER, 3rd compression ring
	4	230200 RING, oil control
0240921-7	CRANKSHAFT KIT (Std.) (Gasoline) (Replaces 231121)	
	1	----- CRANKSHAFT
	1	227552 GEAR, crankshaft
	1	910184 KEY, #8 woodruff
	4	0237802-4 BEARING ASSY., conn. rod (Replaces 228486)
	4	232165 BEARING, main, front & center
	2	232162 BEARING, main, rear
233199	BOLT KIT, ring gear (Used prior to Tractor Serial No. 7653)	
	12	233700 BOLT
	12	919443 NUT
234052	TRANSFER SET (f/Repainting gas tractors)	
	1	----- TRANSFER, cylinder block drain
	1	----- TRANSFER, air cleaner
	1	234767 TRANSFER, H-3
	1	----- TRANSFER, engine designation
	1	----- TRANSFER, instruction hydraulic equipment
	1	----- TRANSFER, dismounting instruction
	1	----- TRANSFER, oil filter can

ASSEMBLIES & PACKAGE PARTS

ASSEMBLY OR PACKAGE NO.

DESCRIPTION

0240878-9

LINING KIT, brake **(Replaces 234213)**

1 **0240877-1** LINING, brake
25 911097 RIVET, brass

234310

TRANSFER SET (f/Repainting Diesel Tractor)

1 ----- TRANSFER, cylinder block drain
1 ----- TRANSFER, air cleaner
2 234768 TRANSFER, HD-3
1 ----- TRANSFER, hydraulic equipment
1 ----- TRANSFER, dismounting instruction
1 ----- TRANSFER, battery hold down
1 ----- TRANSFER, injection pump shut-off

234507

CARBURETOR KIT, repair

4 219973 SCREW, choke and throttle plate
1 219999 GASKET, power jet
1 220006 JET, idling
1 229609 SHAFT ASSY., throttle
1 219968 RETAINER, throttle shaft seal
1 224949 SEAL, throttle shaft
1 219992 CUP, throttle shaft hole
1 219978 SPRING, idle adjusting needle
1 219987 NEEDLE, idle adjusting
1 219995 GASKET, high speed needle
1 220003 VALVE ASSY., float
1 219986 SHAFT, float lever
1 219976 GASKET, throttle body to bowl
2 219969 PACKING, choke shaft
1 219968 RETAINER, choke shaft packing
1 234462 JET, economizer
1 229613 JET, power
1 219979 SPRING, choke lever

0255326-1

GASKET SET, major engine overhaul (Gasoline) **(Replaces 235202)**

1 227577 GASKET, cylinder head
4 226477 PACKING, stud, rocker arm cover
1 **0255296-6** GASKET, rocker arm cover **(Replaces 232334)**
1 233204 GASKET, timing gear cover
1 233207 GASKET, cover, power steering
1 **0255296-6** GASKET, thrust cover **(Replaces 232206)**
1 233213 GASKET, governor cover
1 232325 GASKET, oil sump
1 233205 GASKET, retainer - rear oil seal
1 233210 GASKET, oil pump
1 228393 GASKET, oil pump cover
1 233228 GASKET, oil filter base
1 227638 GASKET, intake & exhaust manifold
1 233208 GASKET, carburetor
1 233209 GASKET, carburetor
1 228542 GASKET, thermostat
1 234382 GASKET, water pump
1 207832 GASKET, water pump cover
1 233212 GASKET, distributor drive housing
1 233211 GASKET, distributor base
1 228125 GASKET, thermostat cover
1 230643 GASKET, thermostat
1 234140 GASKET, intake & exhaust manifold
1 226012 GASKET, drain plug
1 226620 SEAL, crankshaft front
1 227572 SEAL, crankshaft rear

ASSEMBLIES & PACKAGE PARTS

ASSEMBLY OR
PACKAGE NO.

DESCRIPTION

0255325-3 GASKET SET (Cylinder head overhaul) (Gasoline) (Replaces 235203)

1	227577	GASKET, cylinder head
4	226477	PACKING, stud, rocker arm cover
1	0255296-6	GASKET, rocker arm cover (Replaces 232334)
1	234140	GASKET, intake & exhaust manifold
1	233209	GASKET, carburetor
1	228125	GASKET, thermostat cover
1	230643	GASKET, thermostat
1	233208	GASKET, carburetor
1	228542	GASKET, thermostat

235487 PIN SET, track

33	234951	PIN, track
1	234952	PIN, master

235488 BUSHING SET, track

34	234950	BUSHING, track
----	--------	----------------

0255324-6 GASKET SET, major engine overhaul (Replaces 239958)

1	237642	GASKET, cylinder head
4	226477	PACKING, stud
1	0255296-6	GASKET, rocker arm cover (Replaces 232334)
1	233204	GASKET, timing gear cover
1	233207	GASKET, power steering cover
1	0248969-8	GASKET, thrust cover (Replaces 233206)
1	233213	GASKET, gen. cover
1	232325	GASKET, oil sump
1	233210	GASKET, oil pump
1	228393	GASKET, oil pump cover
1	233228	GASKET, oil filter base
1	234140	GASKET, intake & exhaust manifold
1	233209	GASKET, carburetor
1	234382	GASKET, water pump
1	207832	GASKET, water pump cover
1	233212	GASKET, distributor drive housing
1	228125	GASKET, thermostat cover
1	233211	GASKET, distributor base
1	228542	GASKET, thermostat
1	226012	GASKET, drain plug
1	226620	SEAL, crankshaft front
1	227572	SEAL, crankshaft rear

0255323-8 GASKET SET, cylinder head overhaul (Replaces 239959)

1	237642	GASKET, cylinder head
4	226477	PACKING, stud
1	0255296-6	GASKET, rocker arm cover (Replaces 232334)
1	234140	GASKET, intake & exhaust manifold
1	233209	GASKET, carburetor
1	228125	GASKET, thermostat, cover
1	228542	GASKET, thermostat

248293 RING SET, expander type (Eff. w/Tractor Serial No. 6959 & up)

4	237648	RING (Top compression)
4	237649	RING (2nd compression)
4	248435	RING (3rd compression)
4	248436	EXPANDER (3rd ring)
4	237650	RING, oil control

ASSEMBLIES & PACKAGE PARTS

ASSEMBLY OR PACKAGE NO.	DESCRIPTION	
240921	CRANKSHAFT KIT (Eff. w/Tractor Serial No. 6959 & up)	
	1	----- CRANKSHAFT ASSY. (Incl. GEAR & KEY)
	4	237802 BEARING, connecting rod
	2	237830 BEARING, main, front & center
	1	237831 BEARING, main, rear
241756	BOLT SET, ring gear (Eff. w/Tractor Serial No. 7653 & up)	
	12	----- CAPSCREW
	12	918317 NUT
243507	KIT, ignition	
	1	225785 POINT SET
	1	225739 CONDENSER KIT
284393	MOTOR KIT, 7.5:1, gasoline (Used prior to Tractor Serial No. 6959)	
	4	229739 PISTON ASSY.
	4	227562 LINER, cylinder
	8	227563 PACKING, cylinder liner
	4	230197 RING, compression, top
	8	227564 RING, compression, 2nd & 3rd
	4	230200 RING, oil control
285335	MOTOR KIT, 8.1 comp. ratio, (Gasoline) (Eff. w/Tractor Serial No. 6959 & up)	
	4	237644 PISTON
	4	237645 PIN
	8	4514586 LOCK
	4	237646 LINER, cylinder
	8	237647 PACKING
	4	237648 RING, top
	8	237649 RING, compression
	4	237650 RING, oil
4054433	GASKET KIT, fuel injection pump	
	1	4048596 SEAL, pilot tube
	1	4048602 SEAL, cam hole (Not Required)
	2	4048604 GASKET, timing line cover
	1	4048630 GASKET, control cover
	2	4048640 WASHER (Not required)
	1	4048649 SEAL, head locating (Not required)
	1	4048650 WASHER, guide stud
	1	4050417 SEAL, transfer pump
	2	4050910 WASHER, pivot shaft
	1	4050914 SEAL, head locating screw (Not Required)
	1	4051365 SEAL, low idle screw (Not Required)
	2	4051830 SEAL, automatic advance (Not Required)
	2	4052540 SEAL, drive shaft
	2	4053375 WASHER, throttle & shut-off shaft
	1	4056226 RING, flexible retaining
	12	4056256 WASHER, fuel line connector
	1	4369432 WASHER, torque screw hole plug
	1	4369444 SEAL, hydraulic head
	2	4369595 SEAL, end plate sleeve
	1	4369595 SEAL, head locating screw
	1	4369599 SEAL, filter nut
	2	4369878 SEAL, advance (Not required)
	1	4369878 SEAL, torque screw hole
	1	4369878 SEAL, shut-off shaft
	1	4369878 SEAL, throttle shaft
	1	4369878 SEAL, by-pass plug (Not Required)

ASSEMBLIES & PACKAGED PARTS

ASSEMBLY OR
PACKAGE NO.

DESCRIPTION

4511664	GASKET KIT, intermediate	
	1	4254499 RING, sealingoil filter (Not Required)
	1	4503956 GASKET, pad cover, fuel pump
	1	4507505 GASKET, gear cover
	1	4508186 GASKET, front plate
	1	4508872 RING, sealing, oil filter (Not Required)
	1	4508941 GASKET, flange
	1	4513809 GASKET, air heater
4512107	RING SET, piston (f/4507704 Piston)	
	1	----- RING, top
	2	----- RING, 2nd & 3rd
	1	----- RING, oil control (3 pcs.)
	1	----- RING, 5th
4512755	PUMP KIT, water (Diesel)	
	1	4507090 RING, snap
	1	4507091 SEAL ASSY., cartridge
	1	4514798 IMPELLER ASSY.
	1	4512347 GASKET, plate to body
	1	----- BEARING & SHAFT ASSY. (Incl. FLINGER)
4513595	RING SET (f/4513346 Piston)	
	1	----- RING, top
	2	----- RING, 2nd & 3rd.
	1	----- RING, oil control (3 pcs.)
	1	----- RING, 5th.
4514021	GASKET KIT, cylinder head	
	2	4105451 GASKET, head cover nut
	1	4500291 GASKET, water inlet pipe
	1	4500832 GASKET, manifold
	1	4506691 GASKET, water pump
	4	4511204 GASKET, injection nozzle
	1	4513480 GASKET, cylinder head cover
	1	4513722 GASKET, water outlet pipe
	1	4513772 GASKET, gasket assy., cylinder head
4515044-8	SLEEVE KIT, cylinder (f/ One Cylinder) (Replaces 4514597)	
	1	4507710 PIN, piston
	1	4510817 SLEEVE , cylinder
	1	4516729-3 PISTON (Replaces 4513346)
	2	4514586 RETAINER, piston pin
	1	4514615 RING, packing
	1	4513595 RING SET, piston
	1	4516606-3 RING, packing
4515045-5	SLEEVE KIT, (f/ One Cylinder) (.020" Thicker Top Flange)(Replaces 4514598)	
	1	4507710 PIN, piston
	1	4508465 SLEEVE, cylinder (.020" thicker top flange)
	1	4516729-3 PISTON (Replaces 4513346)
	1	4513595 RING SET , piston
	2	4514586 RETAINER, piston pin
	1	4514615 RING, packing
	1	4516606-3 RING, packing
1003784-4	KIT, shaft & ring gear	
	1	024149306 SHAFT
	1	0241755-8 GEAR

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MEMO

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"