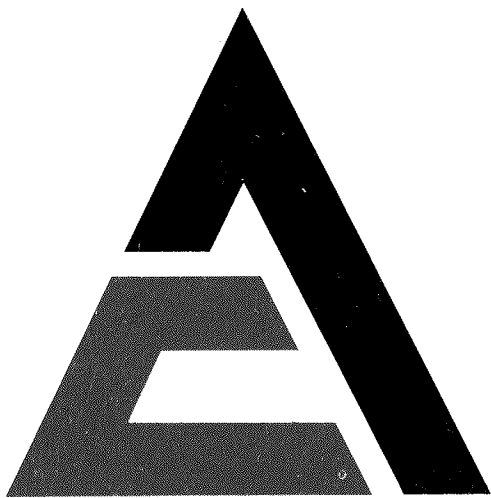


Parts
Catalog

for
INDEPENDENT
HYDRAULIC
SYSTEMS

HD-16
CRAWLER TRACTOR
U S A



ALLIS-CHALMERS

CONSTRUCTION MACHINERY DIVISION
SPRINGFIELD, ILLINOIS 62705

JOHN BRADY

Replaced with this Reprint
2/7/72

FORM 0650367-6 (6-67)

SECOND PRINTING (11-69)

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PAGE	DATED
23	Revised March 1968
26	Revised August 1968
40	Revised April 1969
41	Revised April 1969
42	Revised April 1969
43	Revised April 1969
60	Revised April 1969
61	Revised April 1969
63	Revised April 1969
64	Revised April 1969
65	Revised April 1969
66	Revised April 1969

IMPORTANT

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

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

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

INSTRUCTIONS FOR ORDERING PARTS

ALWAYS GIVE THE UNIT SERIAL NUMBER.

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

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

Order parts from the dealer covering the local territory.

Confirm all telephone or telegraph orders in writing.

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

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

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

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

No responsibility is assumed for delay or damage to merchandise while in transit. Our responsibility ceases upon delivery of shipment to the transportation company from whom a receipt is received showing that shipment was in good condition when delivered to them; therefore, claims (if any) should be filed with the transportation company and not with Allis-Chalmers.

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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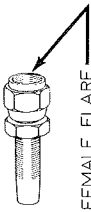
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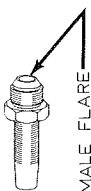
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NOTE: This catalog does not include parts data for cylinders or cylinder piping.
See parts catalogs covering dozer, ripper, winch or scraper for this information.

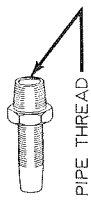
NIPPLES



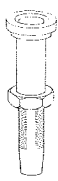
TYPE A
FEMALE FLARE



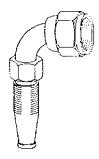
TYPE B
MALE FLARE



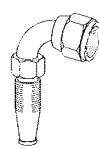
TYPE C
PIPE THREAD



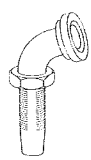
TYPE J



TYPE E



TYPE F

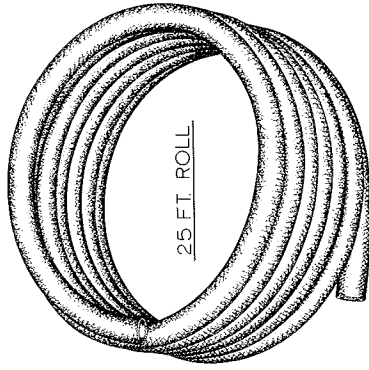


TYPE K

SOCKET



HOSE



25 FT. ROLL

T-71383

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

HOSE ASSEMBLY NO. (See NOTE)	BULK HOSE (25' roll)	HOSE LENGTH (inches)	NIPPLE (#1 end)		NIPPLE (#2 end)		SOCKET (both ends)	NIPPLE FLANGE		CRIMPED-TYPE HOSE (See NOTE)
			Including SOCKET	NIPPLE only	Type	Including SOCKET	NIPPLE only	Type	Part No.	Dim
625565	920795	16-1/4	920935	921304	B	920928	920970	C	920973	
626473	920795	43-1/2	920928	920970	C		626471 Tube	F	920973	
626474	920795	43-1/2	920928	920970	C		626472 Tube	F	920973	
635144	920795	125	920935	921304	B		626471 Tube	F	920973	
635145	920795	125	920935	921304	B		626472 Tube	F	920973	
	920794	40-1/2	920927	920969	C	920927	920969	C	920972	612975
	920794	44-1/2	920927	920969	C	920927	920969	C	920972	614528
	920794	88-1/2"	920927	920969	C	920927	920969	C	920972	614530
	920982	34-1/4	920929	920984	C	920929	920984	C	920986	617177

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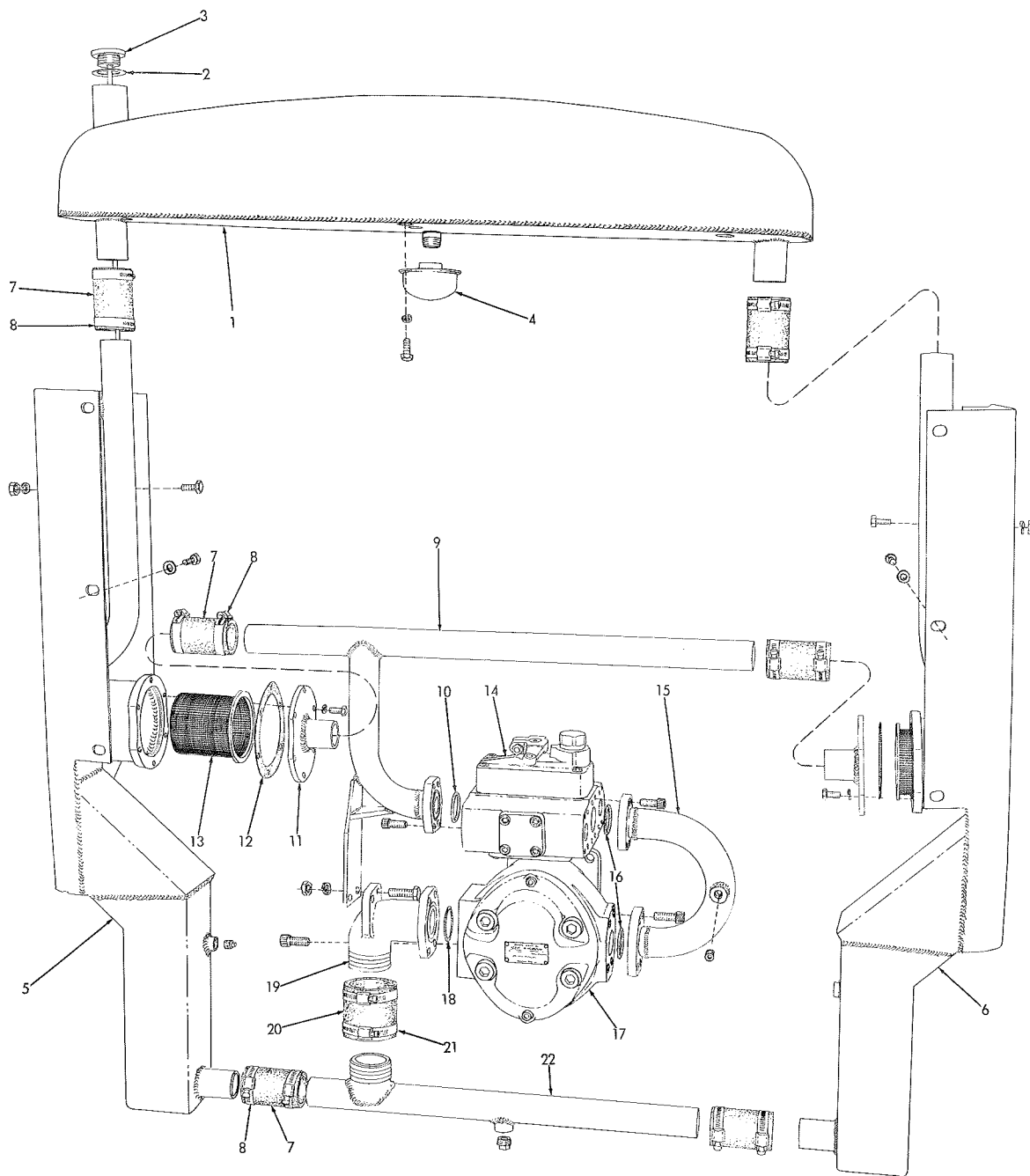
002111
COMPA

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PUMP AND TANKS

T-14105

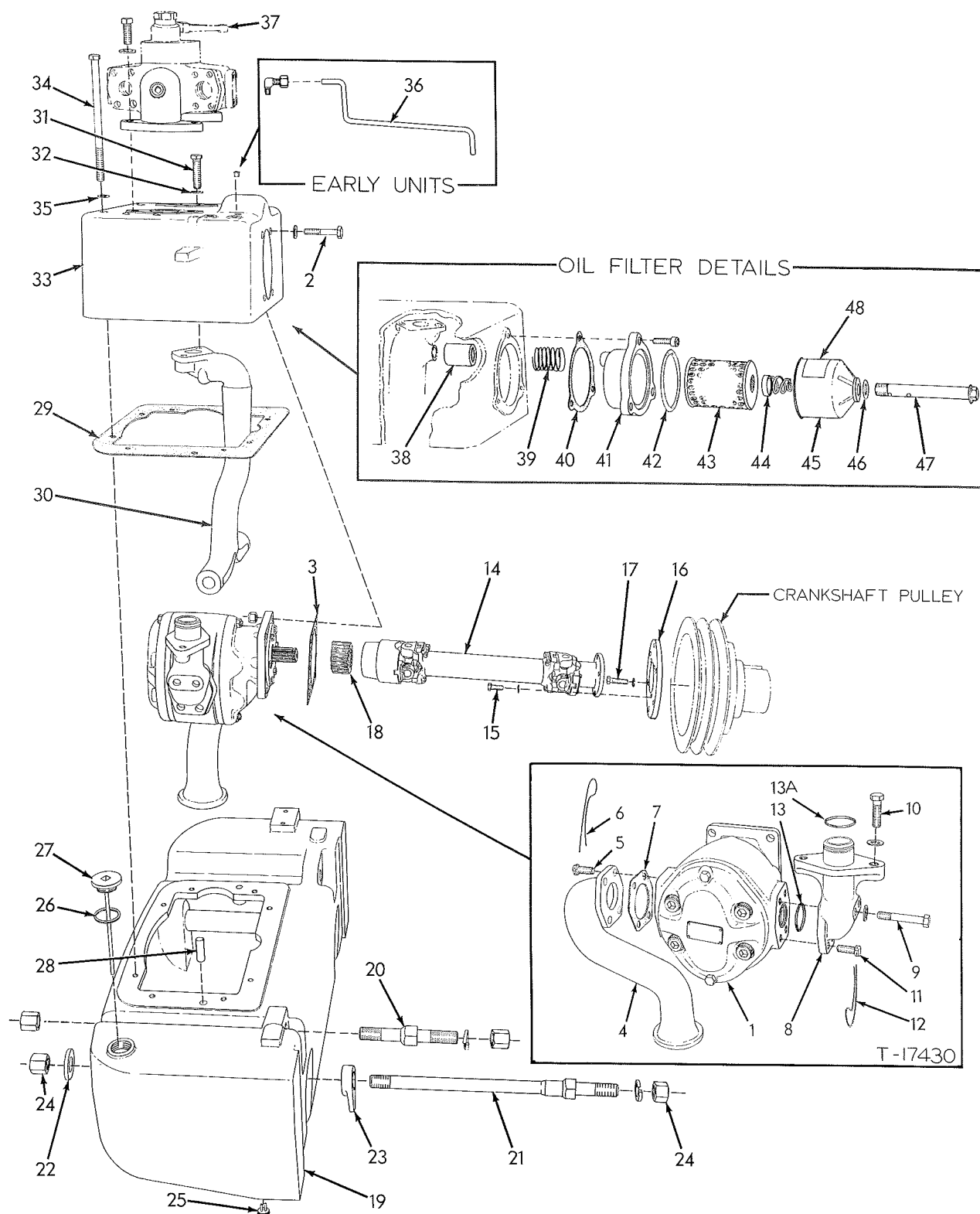
USAGE: Model 16BD, GD dozers prior to serial No. 798; also Model 16GE dozers prior to approx. serial No. 467. Front-mounted.

ITEM	PART NO.	QTY.	DESCRIPTION
1	609534	1	TANK, oil, top section
	911978	4	CAPSCREW, 1/2"NF x 1-1/2"
	904208	4	LOCKWASHER, 1/2"
2	035249	1	GASKET, oil level dipstick
3	609169	1	DIPSTICK, oil level
4	606929	1	BREATHING, top tank

(Continued)

PUMP AND TANKS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
5	609542	1	TANK, oil, right side
	910319	3	CAPSCREW, 1/2"NF x 1"
	911978	3	CAPSCREW, 1/2"NF x 1-1/2"
	904208	6	LOCKWASHER, 1/2"
	900818	6	WASHER, plain, U.S. std., 1/2"
	911043	3	NUT, 1/2"NF
	901653	1	PLUG, pipe, 3/8"NPT
6	609541	1	TANK, oil, left side
	910319	3	CAPSCREW, 1/2"NF x 1"
	911978	3	CAPSCREW, 1/2"NF x 1-1/2"
	904208	6	LOCKWASHER, 1/2"
	900818	6	WASHER, plain, U.S. std., 1/2"
	911043	3	NUT, 1/2"NF
7	609176	6	HOSE, tank connecting
8	921913	12	CLAMP, hose, 1-13/16" to 2-3/4" diam.
9	609517	1	PIPE, valve to tanks
	912273	4	CAPSCREW, hex-socket-hd., 7/16"NC x 1"
	903639	2	CAPSCREW, 1/2"NC x 1-1/2"
	904208	2	LOCKWASHER, 1/2"
	911028	2	NUT, 1/2"NC
10	619801	1	RING, sealing, valve to tank pipe (1-7/8" O. D.)
11	609172	2	COVER, tank filter
	903629	12	CAPSCREW, 3/8"NC x 3/4"
	904206	12	LOCKWASHER, 3/8"
12	609177	2	GASKET, filter cover
13	606162	2	FILTER, oil tank
14	-----	1	VALVE ASSEMBLY (See FRONT VALVE AND CONTROLS)
15	609256	1	PIPE, pump to valve
	907859	1	PLUG, pipe, hex-socket-hd., 1/4"NPT
	912273	4	CAPSCREW, hex-socket-hd., 7/16"NC x 1"
	912607	4	CAPSCREW, hex-socket-hd., 1/2"NF x 1-1/4" (For PUMP 607931)
	912277	4	CAPSCREW, hex-socket-hd., 1/2"NC x 1-1/4" (For PUMP 619770)
16	619801	2	RING, sealing, pressure pipe (1-7/8" O. D.)
17	-----	1	PUMP ASSEMBLY (See PUMP AND DRIVE on page 18)
18	619823	1	RING, sealing, pump inlet elbow (2-1/2" O. D.)
19	609278	1	ELBOW, pump inlet
	912607	4	CAPSCREW, hex-socket-hd., 1/2"NF x 1-1/4" (For PUMP 607931)
	912277	4	CAPSCREW, hex-socket-hd., 1/2"NC x 1-1/4" (For PUMP 619770)
20	609264	1	HOSE, pump inlet elbow
21	921915	2	CLAMP, hose, 2-13/16" to 3-3/4" diam.
22	609245	1	PIPE, tanks to pump
	912725	1	PLUG, pipe, 1/2"NPT



PUMP AND TANK

USAGE: Model 16HA, HS dozers; Model 16BD, GD dozers serial No. 798 and up; Model 16GE dozers approx. serial No. 467 and up; Model 16CS dozers with hydraulic tilt. Front-mounted. Used prior to June 15, 1965.

* 16BD, GD; 16GE; 16HA, HS
** 16CS

ITEM	PART NO.	QTY. * **		DESCRIPTION
1	607931	1	-	PUMP ASSEMBLY (See page 19 for parts)(Used prior to tank #951. Order PUMP ASSEMBLY 619770, 2 CAPSCREW 041877 and 6 CAPSCREW 625615)
	619770 ✓	1	-	PUMP ASSEMBLY (See page 20 for parts)(Effective with tank #951)
	619790	-	1	PUMP ASSEMBLY (See page 20 for parts)
2	035892	4	-	CAPSCREW, 1/2"NF x 2-1/2"
	035278	-	4	CAPSCREW, 1/2"NF x 2-3/4"
	618724	4	4	WASHER, copper
	914487	4	4	NUT, elastic stop, 1/2"NF
3	613132	1	1	GASKET, pump to tank
4	612917 ✓	1	-	LINE, suction
	617709	-	1	LINE, suction
5	060833	4	-	CAPSCREW, drilled-hd., 1/2"NF x 1-1/4" (For PUMP 607931)
	625615	4	4	CAPSCREW, drilled-hd., 1/2"NC x 1-1/4" (For PUMP 619770)
6	023633	2	2	WIRE, locking, 1/16" x 12"
7	-----	1	-	O-RING, (Used on early units. Order GASKET 617033)
	617033	1	-	GASKET, suction line
	617716	-	1	GASKET, suction line
8	615326 ✓	1	-	LINE, pressure
	617721	-	1	LINE, pressure
9	070403	2	-	CAPSCREW, 1/2"NF x 3" (For PUMP 607931)
	041877	2	-	CAPSCREW, 1/2"NC x 3" (For PUMP 619770)
10	053323	-	2	CAPSCREW, 7/16"NC x 2-3/4"
	035073	2	2	CAPSCREW, 1/2"NF x 1-3/4"
	618724	4	2	WASHER, copper (1/2")
	917265	-	2	WASHER, copper (7/16")
11	060833	2	-	CAPSCREW, drilled-hd., 1/2"NF x 1-1/4" (For PUMP 607931)
	625615	2	-	CAPSCREW, drilled-hd., 1/2"NC x 1-1/4" (For PUMP 619770)
	625618	-	2	CAPSCREW, drilled-hd., 7/16"NC x 1-1/4"
12	023633	1	1	WIRE, locking, 1/16" x 12"
13	619798	1	-	RING, sealing, pressure line, lower (2" O. D.)
	619799	-	1	RING, sealing, pressure line, lower (1-3/4" O. D.)
13A	619798	1	1	RING, sealing, pressure line, upper (2" O. D.)

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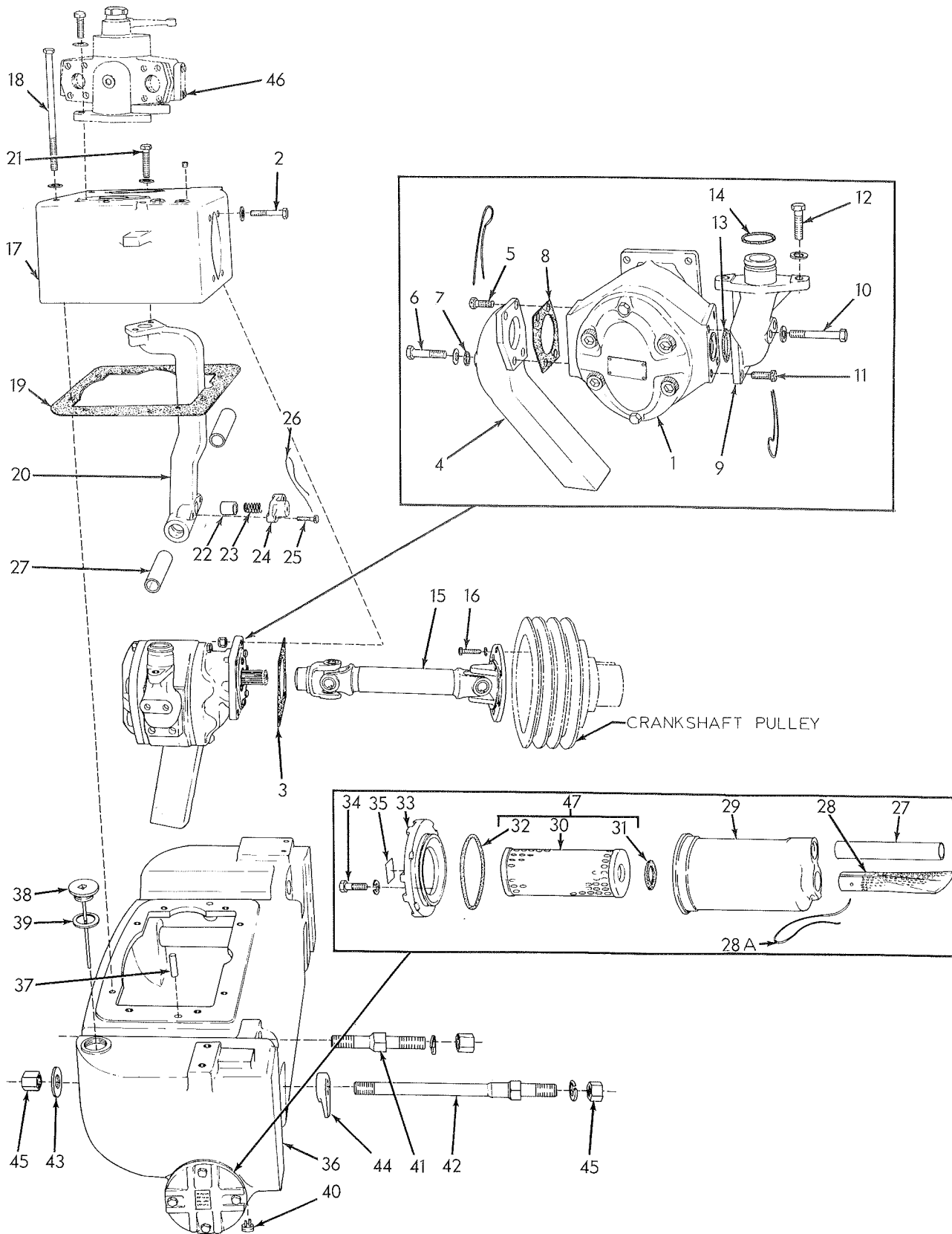
PUMP AND TANK (Continued)

ITEM	PART NO.	QTY. * **		DESCRIPTION
14	613154	1	-	JOINT ASSEMBLY, universal (16-1/8" long. See page 27 for parts) (Used prior to tractor #4001. Order JOINT ASSEMBLY 646248 and and PLATE 647537)
	618721	1	-	JOINT ASSEMBLY, universal (15-5/8" long. See page 27 for parts) (Effective with tractor #4001 but later discontinued May 1959. Order JOINT ASSEMBLY 646248)
	619446	1	-	JOINT ASSEMBLY, universal (15-5/8" long. See page 24 for parts) (Used May 1959 to September 1961. Order JOINT ASSEMBLY 646248)
	619707 15,750	1	1	JOINT ASSEMBLY, universal (15-3/4" long. See page 25 for parts) (Effective September 1961. Used thru April 1965 only. Order JOINT ASSEMBLY 646248.
	646248	1	1	JOINT ASSEMBLY, universal (See page 26 for parts)(Effective May 1, 1965)
15	035167	4	4	CAPSCREW, 3/8"NF x 7/8" } For all U-JOINTS
	904206	4	4	LOCKWASHER, 3/8" } except 646248
	035190	6	6	CAPSCREW, 1/2"NC x 1-1/2" } For U-JOINT 646248 only
	904208	6	6	LOCKWASHER, 1/2" }
16	606198	1	1	PLATE, universal joint adapting (1/2" thick)(Original equipment except on units using U-JOINT 646248)
	618722	1	1	PLATE, universal joint adapting (1" thick)(Required to install service replacement JOINT ASSEMBLIES 618721, 619446 and 619707 on tractors prior to #4001)
	647537	1	1	PLATE, universal joint spacing (Required to install U-JOINT 646248 on tractors prior to #4001)
17	035190	6	6	CAPSCREW, 1/2"NC x 1-1/2" (For PLATE 606198)
	921556	6	6	CAPSCREW, 1/2"NC x 2" (For PLATE 618722)
	904208	6	6	LOCKWASHER, 1/2"
18	619765	1	1	ADAPTER, universal joint (Used with U-JOINT 619707 only)
19	613950	1	1	TANK, lower half
20	614715	2	2	STUD, oil tank attaching, short
	914728	2	2	LOCKWASHER, heavy, 1"
21	614187	2	2	STUD, oil tank attaching, long
	914728	2	2	LOCKWASHER, heavy, 1"
22	617611	2	2	WASHER, plain
23	619321	2	2	RETAINER, oil tank long stud
24	600236	8	8	NUT, oil tank stud (high, 1"NF)
25	613126	1	1	PLUG, oil drain (magnetic)
26	035249	1	1	GASKET, oil level dipstick
27	614189	1	1	DIPSTICK, oil level
28	049914	2	2	PIN, dowel, oil tank

(Continued)

PUMP AND TANK (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
29	617137	1	1	GASKET, oil tank
30	612915	1	-	LINE, pump oil return (Used prior to tank #714. Units without oil filter)
	618725	1	-	LINE, pump oil return (Effective with tank #714. Units with oil filter)
	617630	-	1	LINE, pump oil return
31	035073	2	2	CAPSCREW, 1/2"NF x 1-3/4"
32	618724	2	2	WASHER, copper
33	614190	1	-	TANK, upper half (Used prior to tank #714. Units without oil filter)
	615304	1	-	TANK, upper half (Effective with tank #714. Units with oil filter)
	617604	-	1	TANK, upper half
34	907859	1	1	PLUG, pipe, hex-socket, 1/4"NPT
	613133	8	8	CAPSCREW, 1/2"NF x 8-1/8"
	618724	8	8	WASHER, copper
36	-----	1	-	TUBE, vent (Used prior to May 1959. Order PLUG 907859)
	914076	1	-	ELBOW, Ermeto, 90°, 3/8" tube, 1/4"NPT male (Includes nut and sleeve)
37	-----	1	1	VALVE (See FRONT VALVE AND CONTROLS)
NOTE: Items listed below became effective with Tank serial No. 714				
38	615238	1	1	HOSE, oil filter housing
39	619586	1	1	SPRING, hose reinforcing
40	615236	1	1	GASKET, oil filter housing
41	615235	1	1	HOUSING, oil filter
	920269	3	3	CAPSCREW, hex-socket-hd., 3/8"NF x 1-1/4"
42	637392	1	1	GASKET, oil filter body
43	625780	1	1	ELEMENT PACKAGE, oil filter (Includes item 42)
44	618476	1	1	SPRING ASSEMBLY, oil filter element (Includes seal and retainer)
45	618477	1	1	BODY, oil filter
46	618474	1	1	GASKET, oil filter body bolt
47	618475	1	1	BOLT, oil filter body
48	619928	1	1	TRANSFER, instruction



PUMP AND TANK (Second type. 16HA, HS, CS)

T-71384

PUMP AND TANK

USAGE: Model 16HA, HS dozers; also Model 16CS dozer with hydraulic tilt.
Front-mounted. Effective June 15, 1965.

* 16HA, HS
** 16CS

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	0637407-8	1	-	PUMP ASSY. ("Hydreco". See page 20 for parts)(Used prior to February 15, 1970)
	0668447-6	1	-	PUMP ASSY. ("Tyrone". See page 22A for parts)(Effective February 15, 1970)
	0619790-9	-	1	PUMP ASSY. ("Hydreco". See page 20 for parts)(Used prior to June 1966)
	0650963-2	-	1	PUMP ASSY. ("Tyrone". See page 23 for parts)(Effective June 1966)
2	0035892-9	4	-	CAPSCREW, 1/2"NF x 2-1/2"
	0035278-1	-	4	CAPSCREW, 1/2"NF x 2-3/4"
	0618724-9	4	4	WASHER, copper
	0914487-4	4	4	NUT, elastic stop, 1/2"NF
3	0613132-0	1	1	GASKET, pump to tank
4	0637402-9	✓ 1	-	LINE, suction
	0617709-1	-	1	LINE, suction (For "Hydreco" pump)
	0650913-7	-	1	LINE, suction (For "Tyrone" pump)
5	0625615-0	2	4	CAPSCREW, drilled-hd., 1/2"NC x 1-1/4"
	0023633-1	1	2	WIRE, locking, 1/16" x 12"
6	0041877-2	2	-	CAPSCREW, 1/2"NC x 3"
	0058614-9	2	-	WASHER, plain
7	0924937-6	2	-	O-RING, suction line capscREW
8	0637403-7	1	-	GASKET, suction line
	0617716-6	-	1	GASKET, suction line (For "Hydreco" pump)
	0617033-6	-	1	GASKET, suction line (For "Tyrone" pump)
9	0637404-5	✓ 1	-	LINE, pressure
	0617721-6	-	1	LINE, pressure (For "Hydreco" pump)
	0650912-9	-	1	LINE, pressure (For "Tyrone" pump)
10	0041877-2	2	-	CAPSCREW, 1/2"NC x 3" (For "Hydreco" pump)
	0914399-1	2	-	CAPSCREW, 1/2"NC x 3-3/4" (For "Tyrone" pump)
	0618724-9	2	-	WASHER, copper
	0053323-2	-	2	CAPSCREW, 7/16"NC x 2-3/4" (For "Hydreco" pump)
	0622781-3	-	2	CAPSCREW, 7/16"NC x 4-7/8" (For "Tyrone" pump)
	0917265-1	-	2	WASHER, copper
	0625615-0	2	-	CAPSCREW, drilled-hd., 1/2"NC x 1-1/4" (For "Hydreco" pump)
	0054069-0	2	-	CAPSCREW, drilled-hd., 1/2"NC x 2" (For "Tyrone" pump)
11	0625618-4	-	2	CAPSCREW, drilled-hd., 7/16"NC x 1-1/4" (For "Hydreco" pump)
	0650926-9	-	2	CAPSCREW, drilled-hd., 7/16"NC x 3-1/2" (For "Tyrone" pump)
	0023633-1	1	1	WIRE, locking, 1/16" x 12"
12	0614478-6	2	-	CAPSCREW, 1/2"NF x 1-3/8"
	0035073-6	-	2	CAPSCREW, 1/2"NF x 1-3/4" (For "Hydreco" pump)
	0614478-6	-	2	CAPSCREW, 1/2"NF x 1-3/8" (For "Tyrone" pump)
	0618724-9	2	2	WASHER, copper

(Continued)

Replaces original page 13 in HD16 Hydraulic Systems Parts Catalog 650367 (6-67)

Printed in U. S. A.

PUMP AND TANK (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
13	0924114-2	1	-	O-RING, pressure line, lower
	0924192-8	-	1	O-RING, pressure line, lower
14	0646116-4	1	-	RING ASSY., sealing, pressure line, upper (3-pc. type)
	0924114-2	-	1	O-RING, pressure line, upper
15	0646248-5	1	1	JOINT ASSY., universal (See page 26 for parts)
16	0035190-8	6	6	CAPSCREW, 1/2"NC x 1-1/2"
	0904208-6	6	6	LOCKWASHER, 1/2"
17	0647335-9	1	-	TANK, upper half
	0647356-5	-	1	TANK, upper half
18	0907859-3	1	1	PLUG, pipe, hex-socket, 1/4"NPT
	0613133-8	8	8	CAPSCREW, 1/2"NF x 8-1/8"
	0618724-9	8	8	WASHER, copper
19	0617137-5	1	1	GASKET, oil tank
20	0660773-3	1	1	LINE, oil return
21	0035073-6	2	2	CAPSCREW, 1/2"NF x 1-3/4"
	0618724-9	2	2	WASHER, copper
21A	0923948-4	4	4	O-RING, oil return line (Effective October 1967)
22	0647151-0	1	1	VALVE, oil by-pass
23	0647108-0	1	1	SPRING, oil by-pass valve
24	0647122-1	1	1	CAP, oil by-pass valve
25	0033182-7	2	2	CAPSCREW, drilled-hd., 3/8"NC x 1-1/2"
26	0023633-1	1	1	WIRE, locking, 1/16" x 12"
27	0646995-1	2	2	TUBE, connecting, oil return line
28	0647238-5	2	2	TUBE, oil discharge
28A	0023633-1	2	2	WIRE, retaining, oil discharge tube
29	0660769-1	2	2	HOUSING, oil filter
30	-----	2	2	ELEMENT, oil filter (Order item 47)
31	0647130-4	2	2	GASKET, oil filter element
32	0924925-1	2	2	O-RING, oil filter cover
33	0647114-8	2	2	COVER, oil filter
34	0013058-3	8	8	CAPSCREW, 3/8"NC x 1-1/4"
	0904206-0	8	8	LOCKWASHER, 3/8"
35	0647254-2	2	2	TRANSFER, instruction, oil filter
36	0655037-0	1	1	TANK, lower half
37	0049914-5	2	2	PIN, dowel, oil tank
38	0614189-9	1	1	DIPSTICK, oil level
39	0667252-1	1	1	GASKET, oil level dipstick

(Continued)

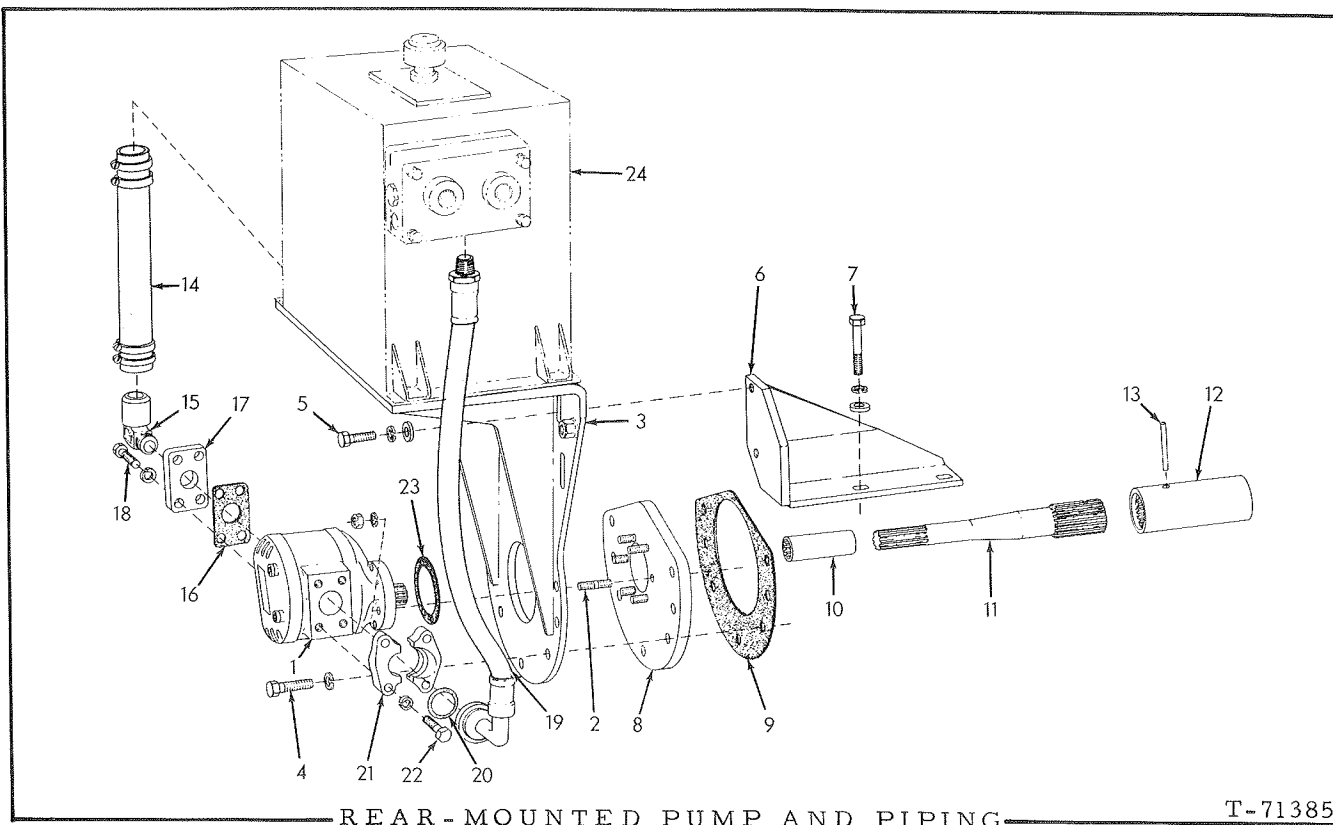
Replaces original page 14 in HD16 Hydraulic Systems Parts Catalog 650367 (6 67)

Printed in U. S. A.

(Revised August 1970)

PUMP AND TANK (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
40	613126	1	1	PLUG, oil drain (magnetic)
41	614715	2	2	STUD, oil tank attaching, short LOCKWASHER, heavy, 1"
	914728	2	2	
42	614187	2	2	STUD, oil tank attaching, long LOCKWASHER, heavy, 1"
	914728	2	2	
43	{ 617611	2	2	WASHER, plain (heavy)(Early units) WASHER, plain, SAE std., 1" (Late units)
	911159	2	2	
44	619321	2	2	RETAINER, oil tank stud
45	600236	8	8	NUT, oil tank stud
46	-----	1	1	VALVE (See FRONT VALVE AND CONTROLS)
47	647256	1	1	ELEMENT KIT (Includes elements for both filters; items 30 thru 32)



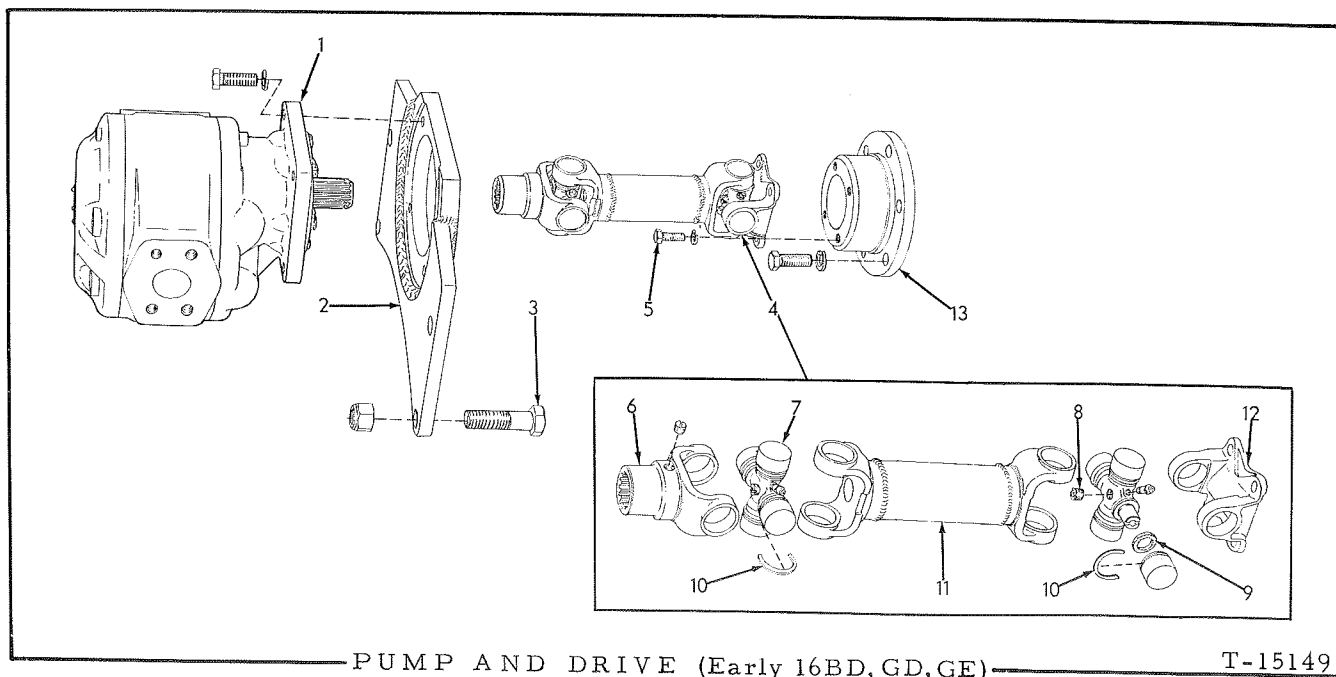
USAGE: Provides single independent hydraulic circuit for operating auxiliary equipment such as Rippers, Scrapers, etc.

ITEM	PART NO.	QTY.	DESCRIPTION
1	3016859	1	PUMP ASSEMBLY (See page 22 for parts)
2	3006240	6	STUD
	904206	6	LOCKWASHER, 3/8"
	911041	6	NUT, 3/8"NF
3	625481	1	BRACKET, mounting
4	0711113	7	CAPSCREW, 5/8"NC x 2"
	904209	7	LOCKWASHER, 5/8"
5	614478	4	CAPSCREW, 1/2"NF x 1-3/8"
	904208	4	LOCKWASHER, 1/2"
	064531	4	WASHER, plain
6	625511	1	BRACKET, left side
	625512	1	BRACKET, right side
7	035073	4	CAPSCREW, 1/2"NF x 1-3/4" (Tractors prior to #5154)
	070403	4	CAPSCREW, 1/2"NF x 3" (Tractors #5154 and up)
	904208	4	LOCKWASHER, 1/2"
	064531	4	WASHER, plain
8	625489	1	PLATE, pump adapting
9	625471	1	GASKET, pump adapting plate
10	3007722	1	SLEEVE, coupling
11	625513	1	SHAFT, coupling
12	068388	1	COUPLING, front

(Continued)

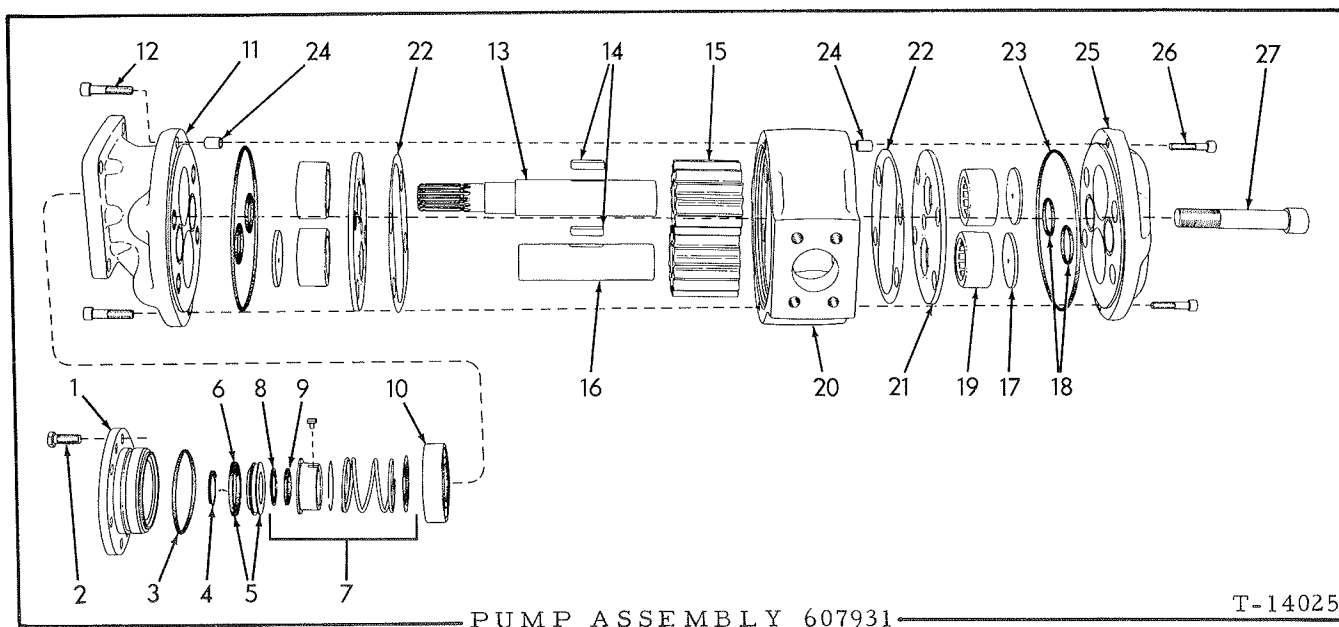
REAR-MOUNTED PUMP AND PIPING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
13	625506	1	PIN, rivet, coupling retaining
14	625484	1	HOSE, suction line
	921913	4	CLAMP, hose, 1-13/16" to 2-3/4" diam.
15	3016775	1	ELBOW, suction line
16	3019275	1	GASKET, elbow adapting plate
17	625490	1	PLATE, elbow adapting
18	035018	4	CAPSCREW, 1/2"NF x 1-1/2"
	904208	4	LOCKWASHER, 1/2"
19	645467	1	HOSE, pump to valve (See HOSE PARTS)
20	924193	1	O-RING, hose to pump
21	921118	2	FLANGE, hose attaching (half only)
22	070469	4	CAPSCREW, 1/2"NF x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
23	615592	1	GASKET, pump
24	-----	1	CONTROL VALVE AND TANK (See page 29)



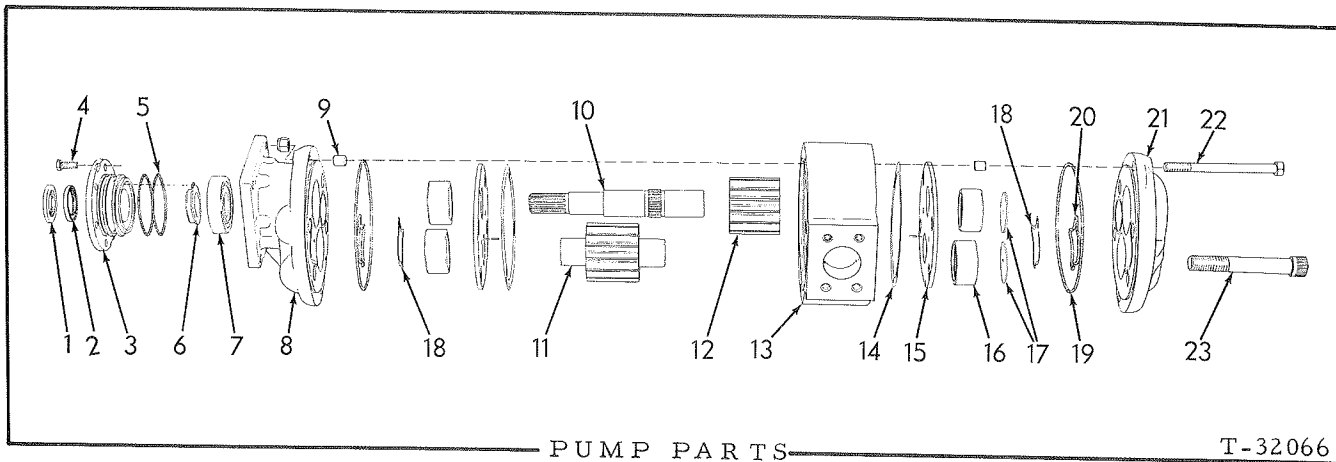
USAGE: Model 16BD, GD dozers prior to serial No. 798; also Model 16GE dozers prior to approx. serial No. 467. Front-mounted.

ITEM	PART NO.	QTY.	DESCRIPTION
1.	607931	1	PUMP ASSEMBLY (See page 19 for parts)(Original equipment. Order PUMP ASSEMBLY 619770 and 8 CAPSCREWS 912277)
	619770	1	PUMP ASSEMBLY (See page 20 for parts)(Used as service replacement only)
	903639	4	CAPSCREW, 1/2"NC x 1-1/2"
	904208	4	LOCKWASHER, 1/2"
2	609497	1	ADAPTER, pump mounting
3	012984	4	CAPSCREW, 3/4"NF x 2-3/4"
	916591	4	NUT, elastic stop, 3/4"NF
4	609182	1	JOINT ASSEMBLY, universal (Consists of items 6 thru 12)
5	035167	4	CAPSCREW, 3/8"NF x 7/8"
	904206	4	LOCKWASHER, 3/8"
6	612618	1	YOKE ASSEMBLY, front (Includes PLUG indented below)
	910230	1	PLUG, pipe, slotted-hd., 1/8"NPT
7	612621	2	SPIDER ASSEMBLY (Includes bearings; also items 8, 9, 10 and FITTING indented below)
	912499	2	FITTING, lubricating straight, 1/4" -28NS (long type)
8	607955	2	VALVE, relief, spider
9	612619	8	WASHER, sealing, spider bearing
10	607954	8	RING, snap
11	612901	1	YOKE, center
12	612620	1	YOKE, rear
13	609500	1	ADAPTER, universal joint
	903639	6	CAPSCREW, 1/2"NC x 1-1/2"
	904208	6	LOCKWASHER, 1/2"



USAGE: See pages 9 and 18

ITEM	PART NO.	QTY.	DESCRIPTION
1	606372	1	RETAINER, pump seal
2	3023347	6	CAPSCREW (3/8"NF x 1", Nylok)
3	923585	1	O-RING, retainer
4	-----	1	RING, snap, drive shaft (Discontinued since is unnecessary)
5	606356	1	SEAT ASSEMBLY, drive shaft seal (Includes item 6)
6	615240	1	RING, seat sealing
7	606357	1	SEAL ASSEMBLY, drive shaft (Includes items 8 and 9)
8	615297	1	WASHER, drive shaft seal
9	923649	1	O-RING, drive shaft seal
10	3011878	1	BEARING, ball, drive shaft
11	606368	1	ADAPTER, pump mounting
12	3011881	2	CAPSCREW (hex-socket-hd., 3/8"NF x 1-3/4")
13	607928	1	SHAFT, drive
14	3012564	2	KEY, straight
15	607930	2	GEAR
16	607929	1	SHAFT, driven
17	3011884	3	WASHER, thrust, driven shaft
18	923664	4	O-RING, pump housing (small)
19	3033933	4	BEARING, roller
20	607927	1	HOUSING, pump
21	606360	2	PLATE, wear
22	3023860	2	SHIM, wear plate (.001" thick. Use as required)
23	924195	2	O-RING, pump housing (large)
24	3011883	2	PIN, dowel, pump housing (hollow)
25	606367	1	COVER, housing
26	3011881	2	CAPSCREW, (hex-socket-hd., 3/8"NF x 1-3/4")
27	606660	4	CAPSCREW, (hex-socket-hd., 7/8"NF x 5")



Cast Iron

* PUMP ASSEMBLY 619770 (See pages 9 and 18)
 ** PUMP ASSEMBLY 619790 (See pages 9 and 13)
 *** PUMP ASSEMBLY 637407 (See page 13)

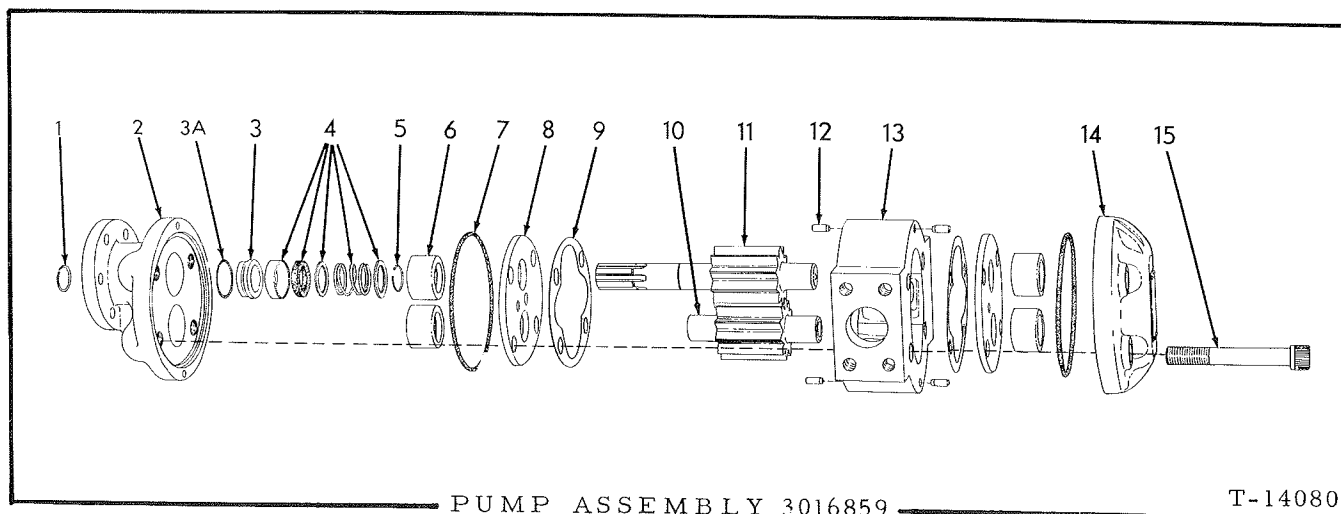
ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	3033357	1	1	1	SEAL, dust
2	3033358	1	1	1	SEAL, oil
3	619753	1	1	1	RETAINER, oil seal
4	917947	1	1	1	PIN, roll, 3/16" x 1/2" (dowel)
4	3033370	6	6	6	CAPSCREW, (3/8"NF x 7/8", Nylok)
5	923585	2	2	2	O-RING, seal retainer
6	619751	1	1	1	RING, sealing
7	3011878	1	1	1	BEARING, ball, drive shaft
8	619754	1	1	1	ADAPTER, pump mounting
9	3024417	4	4	4	SLEEVE, dowel, pump housing
10	619804	1	-	1	SHAFT, drive
	619825	-	1	-	SHAFT, drive
11	619807	1	-	-	GEAR, lower
	619829	-	1	-	GEAR, lower
	645857	-	-	1	GEAR, lower
12	619806	1	-	-	GEAR, upper
	619828	-	1	-	GEAR, upper
	645858	-	-	1	GEAR, upper
13	619805	1	-	-	HOUSING
	619826	-	1	-	HOUSING
	645859	-	-	1	HOUSING
14	3023860	2	2	-	SHIM, wear plate (Use as required)

TP120

(Continued)

PUMP PARTS (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
15	606360	2	2	2	PLATE, wear
	916169	2	2	2	PIN, roll, 3/16" x 3/4" (dowel)
16	3033933	4	4	4	BEARING, roller
17	3011884	2	2	2	WASHER, thrust, drive shaft
18	3033369	2	2	2	RING, back-up
19	637425	2	2	2	RING, sealing, pump housing
20	3023858	2	2	2	RING, sealing, wear plate
21	3042042	1	1	1	COVER, pump housing
22	053038	2	-	2	CAPSCREW, 1/2"NF x 6"
	053037	-	2	-	CAPSCREW, 1/2"NF x 5-1/2"
	914487	2	2	2	NUT, self-locking, 1/2"NF
23	606661	4	-	4	CAPSCREW, hex-socket-hd., 7/8"NF x 5-1/2"
	606660	-	4	-	CAPSCREW, hex-socket-hd., 7/8"NF x 5"

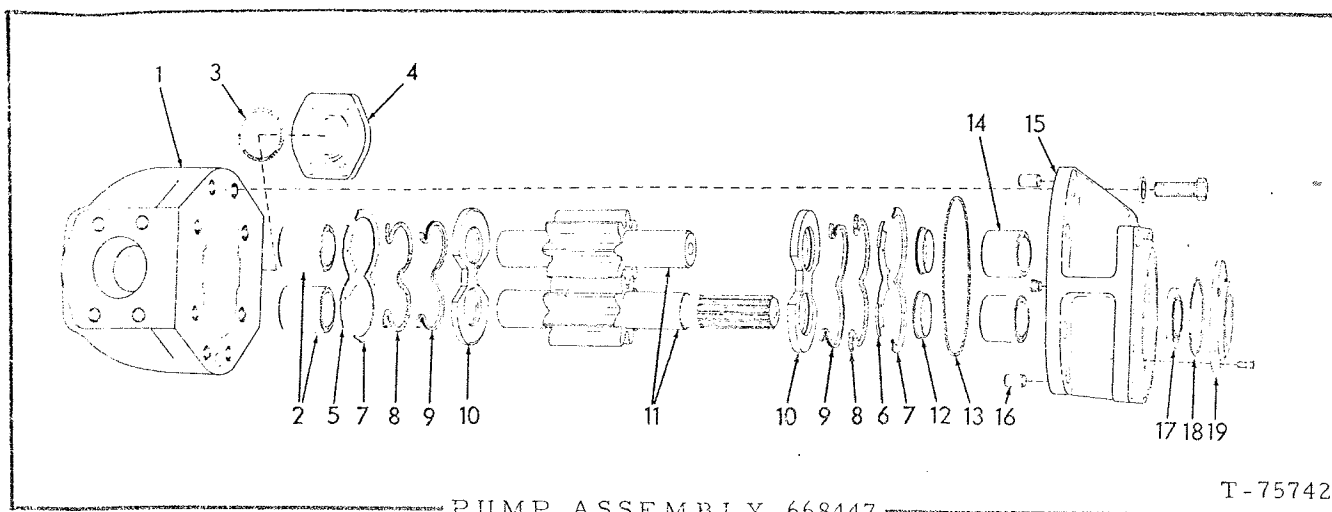


PUMP ASSEMBLY 3016859

T-14080

USAGE: Rear-mounted. See page 16

ITEM	PART NO.	QTY.	DESCRIPTION
1	3002997	1	RING, snap, drive shaft, outer
2	3009546	1	COVER, drive end
3	3007752	1	SEAT ASSEMBLY, drive shaft seal (Includes item 3A)
3A	3029725	1	O-RING, seal seat
4	3007753	1	SEAL ASSEMBLY, drive shaft (Serviced only as a unit)
5	3003689	1	RING, snap, drive shaft, inner
6	3025030	4	BEARING, needle
7	923591	2	O-RING, sealing, pump housing
8	3003009	2	PLATE, wear
9	3003691	-	GASKET, shimming, wear plate (.001" thick)
	3003692	-	GASKET, shimming, wear plate (.002" thick)
			Use as required
10	3003004	1	GEAR, driven
11	3003007	1	GEAR, drive
12	3003002	4	PIN, dowel, pump housing (5/16" x 3/4")
13	3016856	1	HOUSING, pump
14	3007756	1	COVER, pump
15	3003010	4	CAPSCREW (hex-socket, 5/8"NF x 4-1/2")



PUMP ASSEMBLY 668447

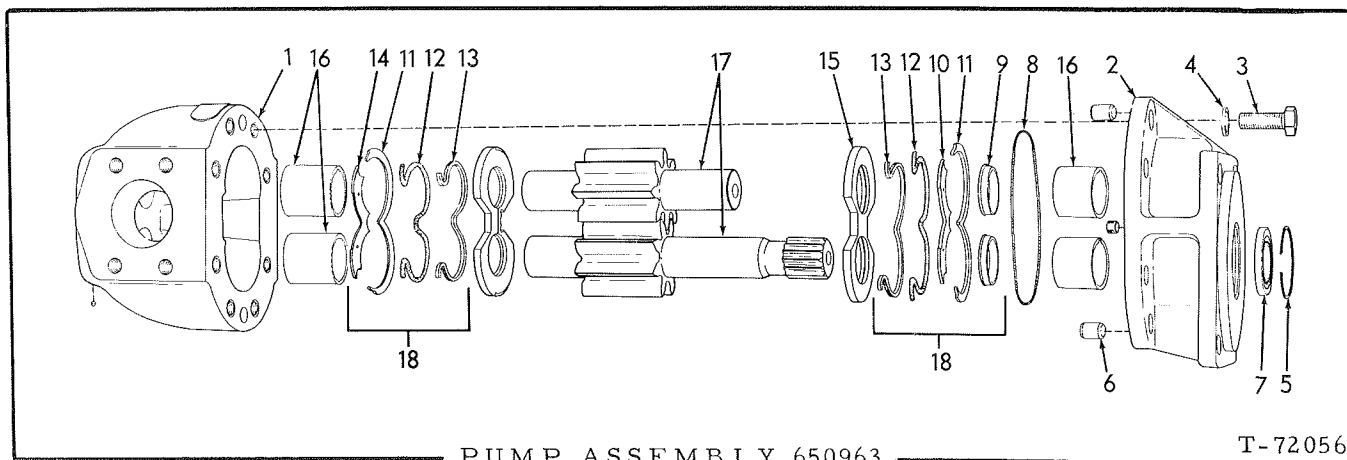
T-75742

USAGE: See page 13

Aluminum

ITEM	PART NO.	QTY.	DESCRIPTION
1	3103334	1	BODY (Includes item 2)
2	664294	2	BUSHING, body <i>not serviced separately TP120 5/19/70</i>
3	924193	1	O-RING, pump spacer <i>OK</i>
4	668449	1	SPACER, adapting <i>OK 9</i>
5	194129	1	PLATE, isolation <i>OK 18</i>
6	194130	1	PLATE, isolation <i>OK 13</i>
7	3046973	2	RETAINER, sealing ring (nylon) <i>7-24</i>
8	668452	2	RING, sealing (rubber) <i>OK</i>
9	196779	2	RING, back-up (teflon) <i>70694394 OK 31</i>
10	3046968	2	PLATE, wear <i>XOK</i>
11	668502	1	GEAR KIT (Consists of 2 matched gears) <i>OK 3</i>
12	3046967	2	RING, mounting flange (steel) <i>OK</i>
13	923824	1	O-RING, mounting flange <i>OK</i>
14	664294	2	BUSHING, flange <i>not serviced separately TP120 5/19/70</i>
15	668448	1	FLANGE ASSY. (Includes item 14)
	910231	1	PLUG, pipe, hex-socket, 1/8"NPT
	921411	8	CAPSCREW, 5/8"NC x 1-1/2"
	3046979	8	WASHER, plain
16	194132	2	PIN, dowel, pump body
17	3046981	1	SEAL, oil <i>70671754</i>
18	194136	1	O-RING, seal retaining plate <i>70927591</i>
19	3044983	1	PLATE, seal retaining
	916284	3	CAPSCREW, 1/4"NC x 1/2"

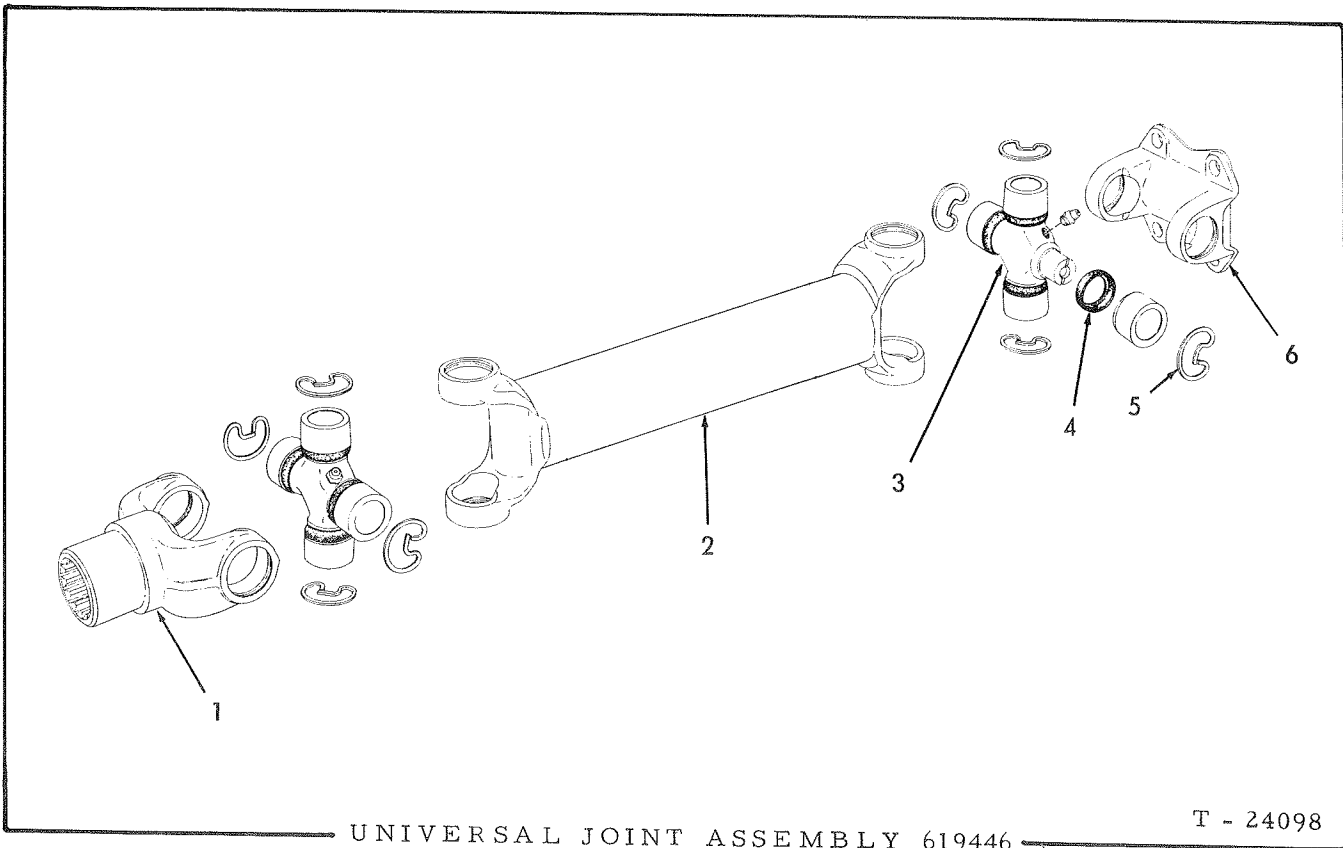
626



* Pumps prior to serial No. 118472
 ** Pumps serial No. 118472 and up.

Aluminum

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	651099	1	1	BODY ASSEMBLY (Includes bushings and BALL indented below)
	915906	1	1	BALL, steel, 3/16" diam.
2	651102	1	1	FLANGE ASSEMBLY (Includes bushings and PLUG indented below)
	910231	1	1	PLUG, pipe, hex-socket, 1/8"NPT
3	035061	8	8	CAPSCREW, 1/2"NC x 1-1/4"
4	651109	8	8	WASHER, plain
5	194166	1	1	RING, snap
6	194132	2	2	PIN, dowel, pump body
7	194165	1	1	□SEAL, oil
8	925655	1	1	□O-RING, mounting flange
9	{ 659716	2	-	□RING, mounting flange (steel)
	{ 664694	-	2	RING, mounting flange (steel)
10	{ 196775	1	-	□PLATE, isolation
	{ 665098	-	1	PLATE, isolation
11	{ 651108	2	-	□RETAINER, sealing ring (nylon)
	{ 665099	-	2	RETAINER, sealing ring (nylon)
12	{ 194161	2	-	□RING, sealing (rubber)
	{ 665097	-	2	RING, sealing (rubber)
13	{ 651105	2	-	□RING, back-up (teflon)
	{ 665096	-	2	RING, back-up (teflon)
14	{ 659714	1	-	□PLATE, isolation
	{ 665095	-	1	PLATE, isolation
15	658241	2	2	□PLATE, wear.
16	656741	4	4	□BUSHING, body and flange
17	660429	1	1	□GEAR KIT (Consists of 2 matched gears)
18	665141	-	1	SEAL KIT (Consists of items 9 thru 14; includes full set for both sides)
19	651103	1	-	REPAIR KIT (Includes items 7 thru 17)(Not illustrated)
				□ Components of item 19

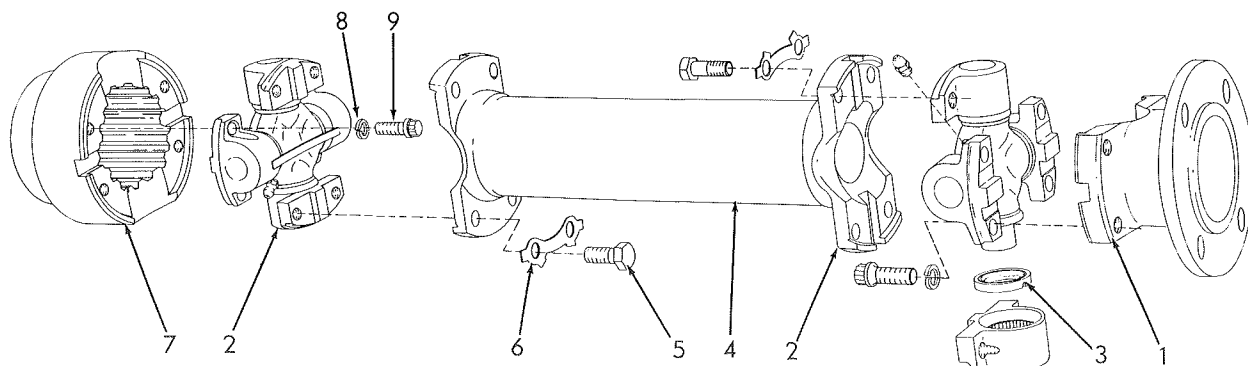


UNIVERSAL JOINT ASSEMBLY 619446

T - 24098

USAGE: See page 9

ITEM	PART NO.	QTY.	DESCRIPTION
1	617513	1	YOKE, front (splined)
2	619457	1	YOKE, center
3	617512	2	SPIDER ASSEMBLY (Includes bearings, items 4, 5 and FITTING in-
	914687	2	dented below) FITTING, lubricating, straight, 1/4"NF
4	617892	8	SEAL, spider bearing
5	617518	8	RING, snap
6	617510	1	YOKE, rear (flanged)

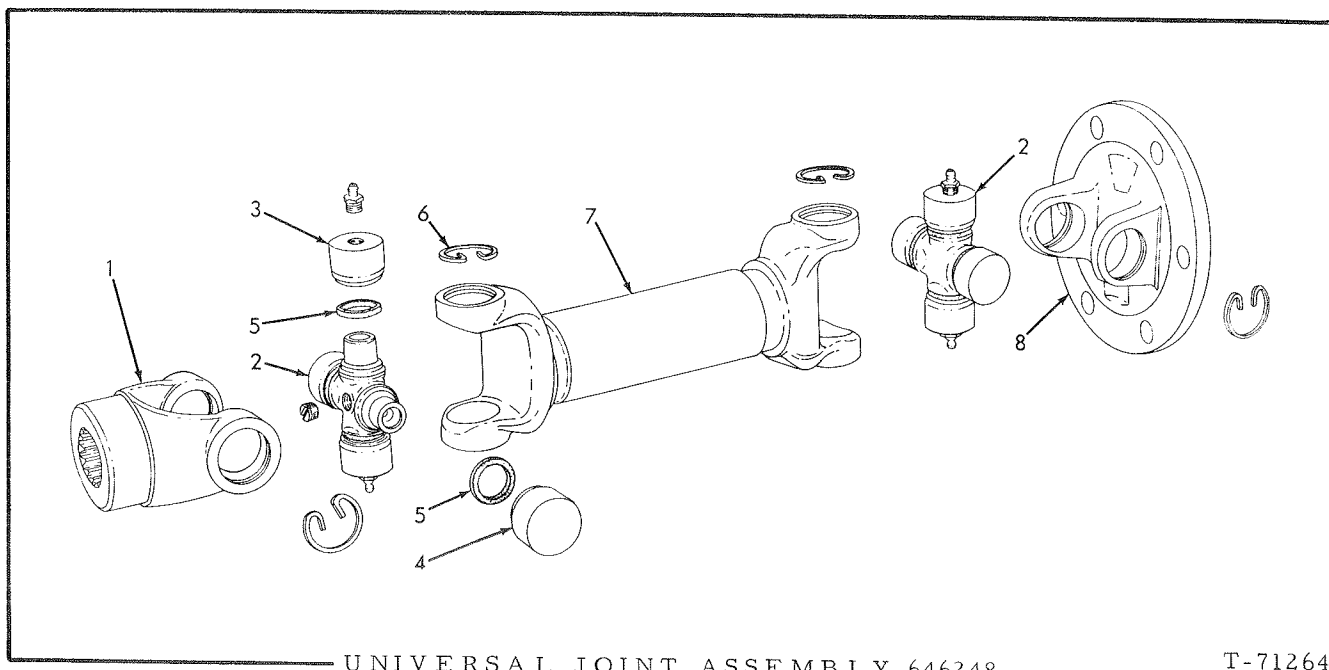


UNIVERSAL JOINT ASSEMBLY 619707

T-33389

USAGE: See page 9

ITEM	PART NO.	QTY.	DESCRIPTION
1	619706	1	FITTING, rear (flanged)
2	619703	2	SPIDER ASSEMBLY (Includes bearings, item 3 and FITTING indented below)
	914687	2	FITTING, lubricating, straight, 1/4"NF
3	625543	8	SEAL, spider bearing
4	619704	1	TUBE, center
5	057927	8	CAPSCREW, center tube
6	073935	4	LOCK, center tube cap screw
7	619766	1	COUPLING, front (splined)
8	645798	8	LOCKWASHER, spider attaching cap screw
9	645797	8	CAPSCREW, spider attaching

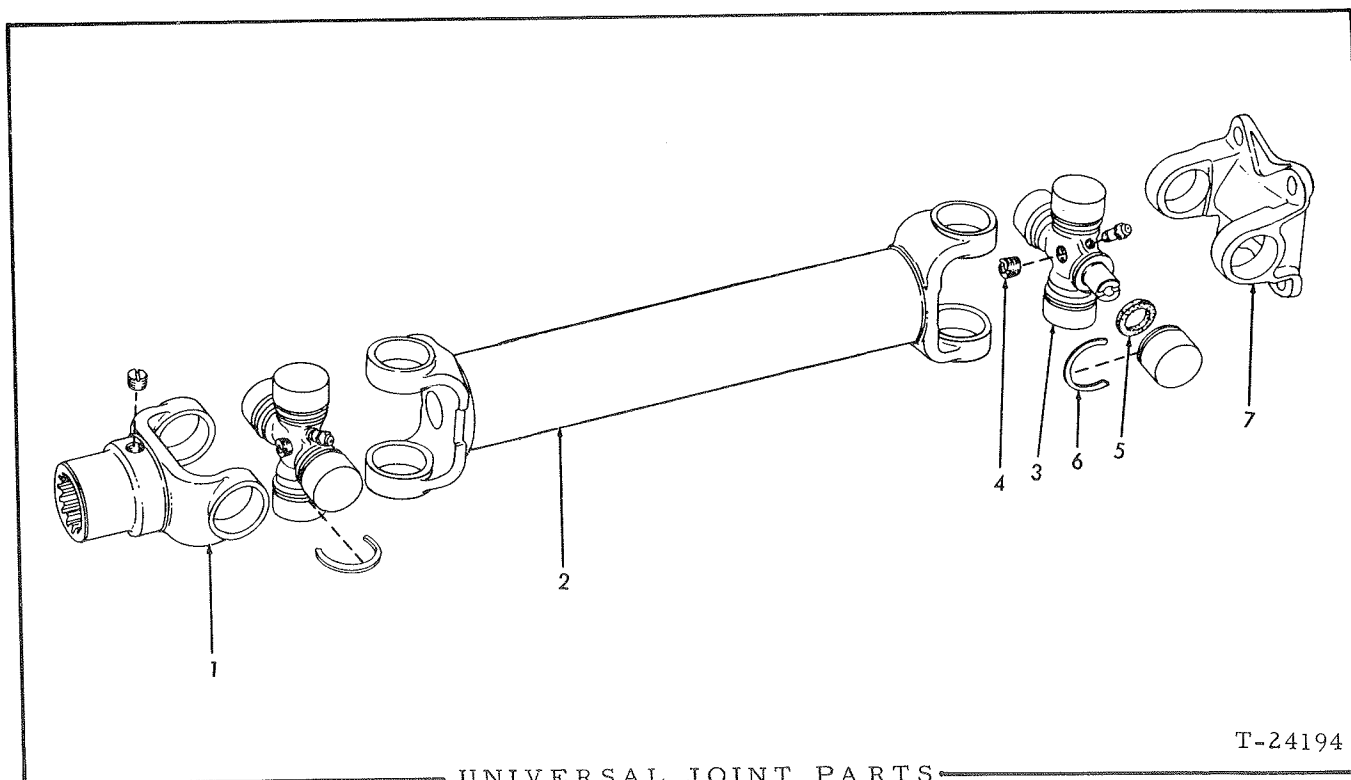


UNIVERSAL JOINT ASSEMBLY 646248

T-71264

USAGE: See pages 9 and 13

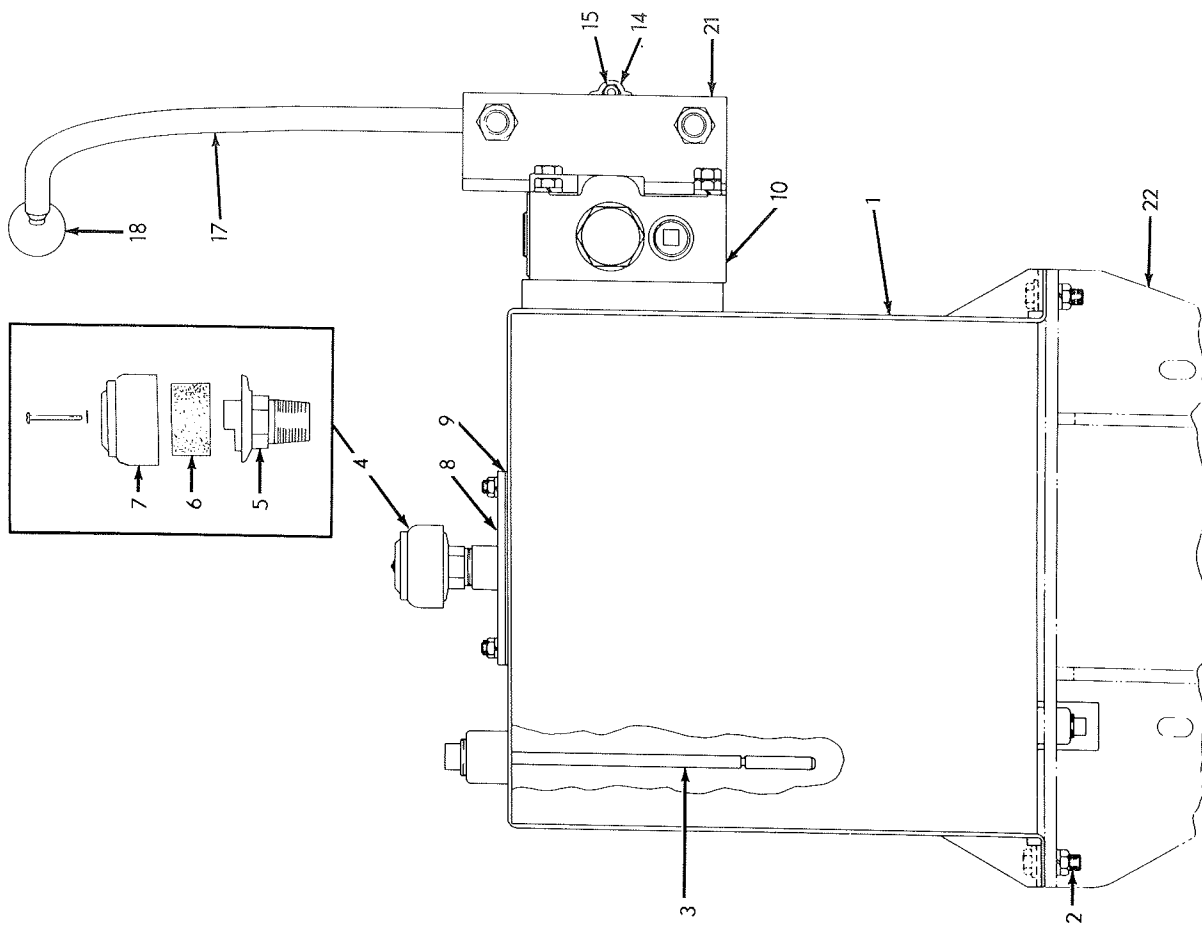
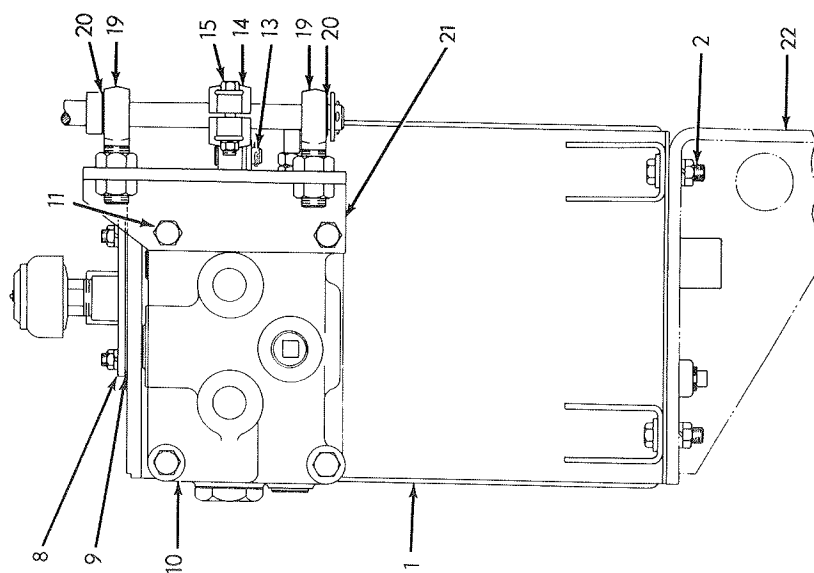
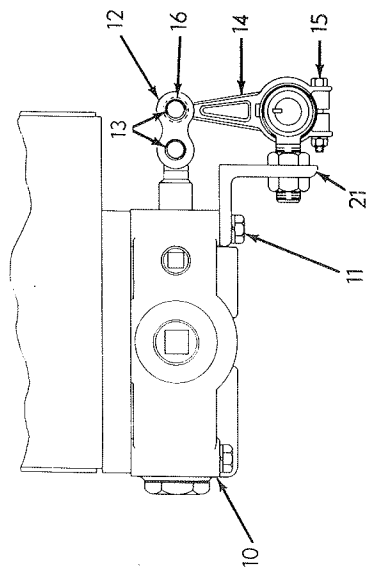
ITEM	PART NO.	QTY.	DESCRIPTION
1	665625	1	YOKE, front (splined)
2	665611	2	SPIDER ASSEMBLY (Includes items 3 thru 6 and PLUG indented below)
	910230	2	PLUG, pipe, 1/8"NPT
3	-----	4	BEARING ASSEMBLY (Not serviced separately)
	914465	4	FITTING, lubricating, straight, 1/8"NPT
4	-----	4	BEARING ASSEMBLY (Not serviced separately)
5	3011023	16	WASHER, cork (Early units)
	-----	8	SEAL, rubber (Late units. Not serviced separately)
6	618804	8	RING, snap, bearing retaining
7	648502	1	YOKE, center
8	664692	1	YOKE, rear (flanged)



USAGE: See page 9

* 613154 JOINT ASSEMBLY
 ** 618721 JOINT ASSEMBLY

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	612618	1	1	YOKE ASSEMBLY, front (splined) (Includes PLUG indented below) PLUG, pipe, slotted-hd., 1/8"NPT
	910230	1	1	
2	613153	1	-	YOKE, center (11-3/4" long)
	618719	-	1	
3	612621	2	2	SPIDER ASSEMBLY (Includes bearings, items 4, 5, 6 and FITTING indented below) FITTING, lubricating, straight, 1/4"-28NS (long type)
	912499	2	2	
4	607955	2	2	VALVE, relief, spider
5	612619	8	8	WASHER, sealing, spider bearing
6	607954	8	8	RING, snap
7	612620	1	1	YOKE, rear (flanged)



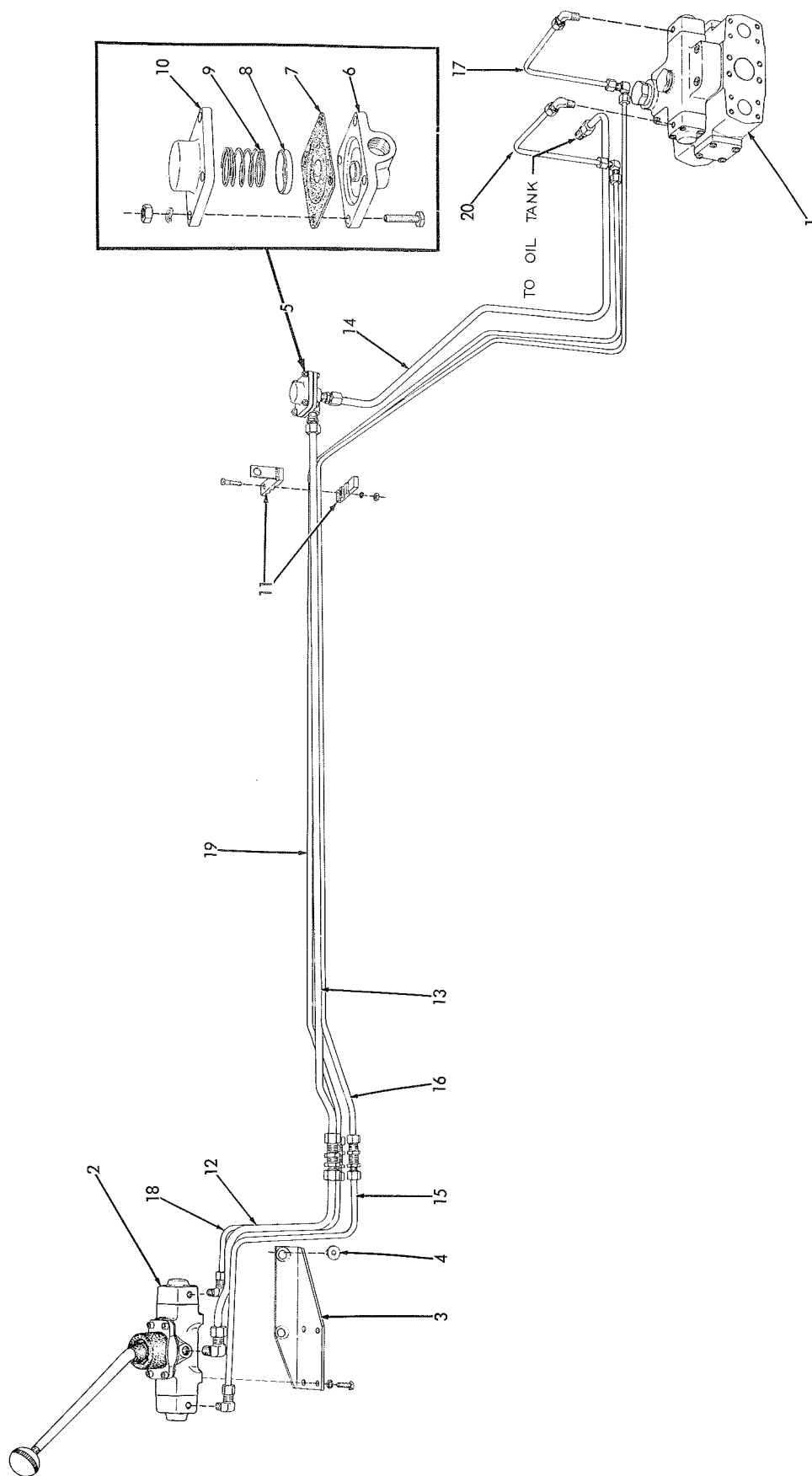
T-36181

CONTROL VALVE AND TANK (Rear-mounted)

CONTROL VALVE AND TANK

USAGE: For rear-mounted pump illustrated on page 16. Provides single independent hydraulic circuit for operating auxiliary equipment such as Rippers, Scrapers, etc.

ITEM	PART NO.	QTY.	DESCRIPTION
1	625444	1	TANK, hydraulic
	912725	1	PLUG, pipe, 1/2"NPT
2	035018	4	CAPSCREW, 1/2"NF x 1-1/2"
	910244	4	WASHER, plain, SAE std., 1/2"
	904208	4	LOCKWASHER, 1/2"
	911043	4	NUT, 1/2"NF
3	625502	1	DIPSTICK
4	3002766	1	BREATHER ASSEMBLY (Includes items 5 thru 7)
5	3002767	1	BASE, breather
6	3002769	1	ELEMENT, breather
7	3002768	1	CAP, breather
	914172	1	SCREW, machine, #10-32NF x 1-1/4"
	904203	1	LOCKWASHER, #10
8	625500	1	COVER, tank
	904206	4	LOCKWASHER, 3/8"
	911026	4	NUT, 3/8"NC
9	625497	1	GASKET, breather cover
10	625385	1	VALVE ASSEMBLY, control (See page 52 for parts)
11	057517	2	CAPSCREW, 1/2"NF x 4"
	916424	2	CAPSCREW, 1/2"NF x 3-1/2"
	904208	4	LOCKWASHER, 1/2"
12	3001523	1	LINK KIT, operating lever (Includes 2 plates and bushing)
13	3001566	2	PIN, operating lever plate
	910244	4	WASHER, plain, SAE std., 1/2"
	900806	2	PIN, cotter, 1/8" x 1"
14	625495	1	LEVER ASSEMBLY, operating rod (Includes item 16)
	905122	1	KEY, #7 woodruff, 1/8" x 3/4"
15	046419	1	CAPSCREW, 3/8"NF x 2"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
16	3013908	1	BUSHING, operating rod lever
17	625504	1	ROD, operating
	910255	1	WASHER, plain, SAE std., 3/4"
	900807	1	PIN, cotter, 1/8" x 1-1/4"
18	091862	1	KNOB, operating rod
19	625496	2	END, rod
	910847	4	NUT, jam, 3/4"NF
20	3019104	2	BEARING, operating rod end (Nylon)
21	625498	1	ANGLE, supporting, operating rod end
22	-----	1	BRACKET (See REAR MOUNTED PUMP AND PIPING)

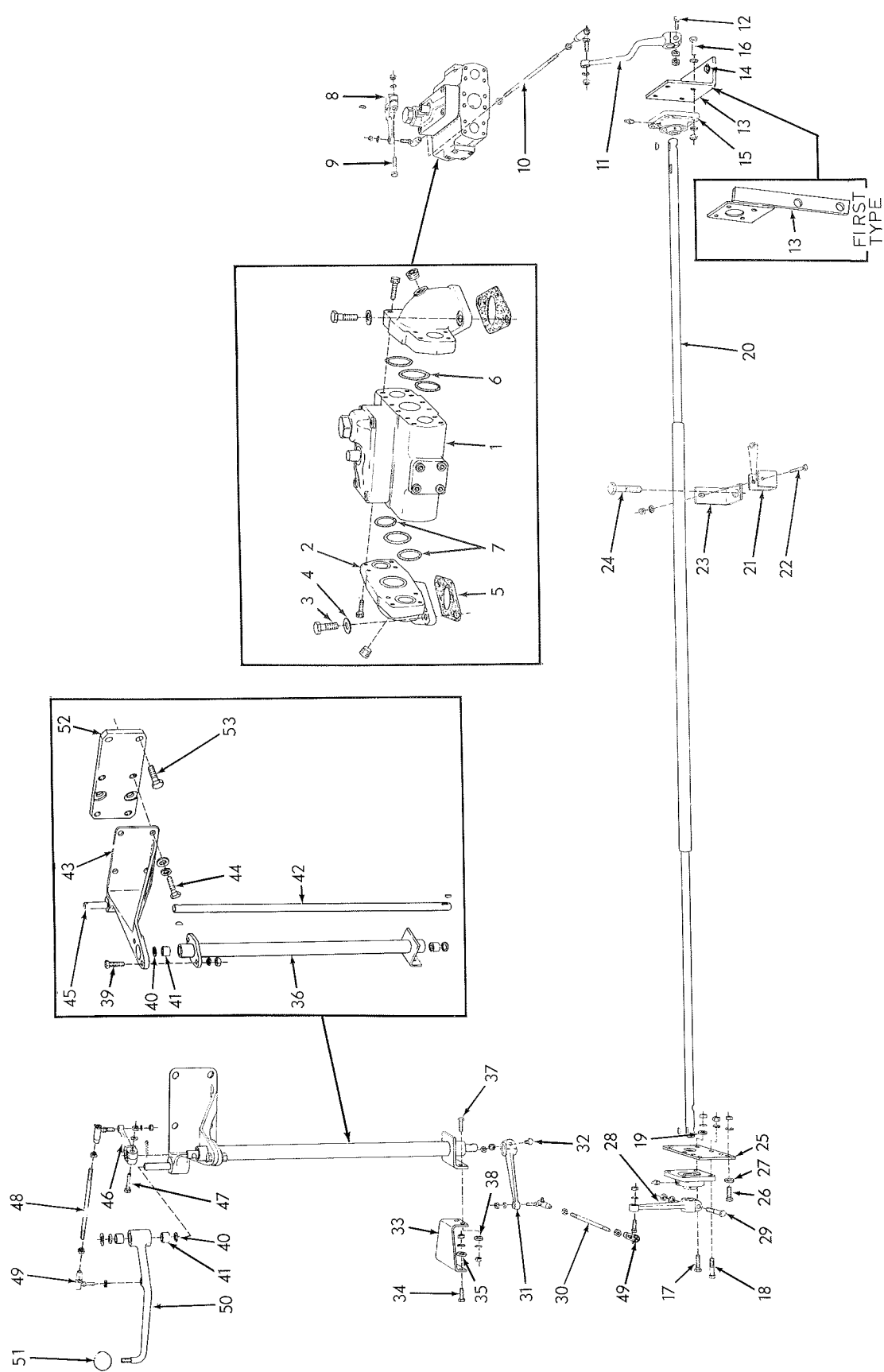


FRONT VALVE AND CONTROLS (First type) T-14094

FRONT VALVE AND CONTROLS

USAGE: Model 16BD, GD dozers prior to serial No. 284 1956

ITEM	PART NO.	QTY.	DESCRIPTION
1	606301	1	VALVE ASSEMBLY, control (See page 55 for parts)
2	613400	1	UNIT ASSEMBLY, valve control (See page 57 for parts)
	903626	4	CAPSCREW, 5/16"NC x 3/4"
	904205	4	LOCKWASHER, 5/16"
3	609533	1	BRACKET, control unit mounting
4	606281	2	CAPSCREW, flat-socket-hd., 1/2"NC x 3/4"
5	607428	1	VALVE ASSEMBLY, check (Consists of items 6 thru 10)
6	607681	1	BODY, check valve
7	607682	1	DIAPHRAGM, check valve
8	607683	1	PLATE, pressure, check valve
9	607427	1	SPRING, check valve
10	607680	1	CAP, check valve
	905657	4	CAPSCREW, 1/4"NC x 1"
	904204	4	LOCKWASHER, 1/4"
	911024	4	NUT, 1/4"NC
11	609521	1	CLAMP ASSEMBLY, supporting, intermediate tubes (2 pieces)
	905658	1	CAPSCREW, 1/4"NC x 1-1/4"
	904204	1	LOCKWASHER, 1/4"
	911024	1	NUT, 1/4"NC
12	609526	1	TUBE, control unit oil return, rear section
	918373	1	UNION, bulkhead, Ermeto, 1/2" tube (Includes nuts and sleeves)
	914025	1	ELBOW, Ermeto, 1/2" tube, 3/8"NPT male (Includes nut and sleeve)
13	609525	1	TUBE, control unit oil return, intermediate section
	914021	1	CONNECTOR, Ermeto, 1/2" tube, 3/8"NPT male (Includes nut and sleeve)
14	609524	1	TUBE, control unit oil return, front section
	914021	2	CONNECTOR, Ermeto, 1/2" tube, 3/8"NPT male (Includes nut and sleeve)
15	609529	1	TUBE, control unit to valve, rear section (lowering control)
	918372	1	UNION, bulkhead, Ermeto, 3/8" tube (Includes nuts and sleeves)
	914076	1	ELBOW, Ermeto, 3/8" tube, 1/4"NPT male (Includes nut and sleeve)
16	609528	1	TUBE, control unit to valve, intermediate section (lowering control)
17	609530	1	TUBE, control unit to valve, front section (lowering control)
	914176	1	ELBOW, union, Ermeto, 3/8" tube (Includes nuts and sleeves)
	914076	1	ELBOW, Ermeto, 3/8" tube, 1/4"NPT male (Includes nut and sleeve)
18	609532	1	TUBE, control unit to valve, rear section (raise control)
	918372	1	UNION, bulkhead, Ermeto, 3/8" tube (Includes nuts and sleeves)
	914076	1	ELBOW, Ermeto, 3/8" tube, 1/4"NPT male (Includes nut and sleeve)
19	609531	1	TUBE, control unit to valve, intermediate section (raise control)
20	609527	1	TUBE, control unit to valve, front section (raise control)
	914176	1	ELBOW, union, Ermeto, 3/8" tube (Includes nuts and sleeves)
	914076	1	ELBOW, Ermeto, 3/8" tube, 1/4"NPT male (Includes nut and sleeve)



T-14096

FRONT VALVE AND CONTROLS (Second type)

FRONT VALVE AND CONTROLS

USAGE: Tractors prior to serial No. 5393. For Model 16BD, GD dozers serial No. 284 and up; all Model 16GE dozers; early Model 16HS, HA dozers.

ITEM	PART NO.	QTY.	DESCRIPTION
1	609553	1	VALVE ASSEMBLY, control (See page 59 for parts)
<u>NOTE:</u> Items 2 thru 7 are applicable only to units equipped with PUMP AND TANK shown on page 9.			
2	612916	2	MANIFOLD (Also see DIVERTER VALVE AND PIPING for optional manifolds)
	907859	2	PLUG, pipe, hex-socket, 1/4"NPT (Used prior to tank #1008)
	904224	2	PLUG, pipe, ctsk-hd., 3/4"NPT (Effective with tank #1008)
	917733	16	CAPSCREW, hex-socket-hd., 3/8"NC x 1-1/4"
3	614478	4	CAPSCREW, 1/2"NF x 1-3/8"
4	618724	4	WASHER, copper
5	613128	2	GASKET, manifold
6	619798	2	RING, manifold sealing (2" O. D.)
7	619799	4	RING, manifold sealing (1-3/4" O. D.)
8	611963	1	LEVER, control valve
	905119	1	KEY, #3 woodruff, 1/8" x 1/2"
9	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
10	611968	1	ROD, front (11" long)(Early units)
	618040	1	ROD, front (12-1/2" long)(Late units)
	911041	2	NUT, 3/8"NF
11	611955	1	LEVER, horizontal shaft, front
12	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
13	611960	1	BRACKET, horizontal shaft front bearing (Early units)
	613260	1	BRACKET, horizontal shaft front bearing (Late units)
14	036034	2	CAPSCREW, 3/8"NF x 1"
	904206	2	LOCKWASHER, 3/8"
15	611901	2	BEARING ASSEMBLY, horizontal shaft (Includes FITTING indented below)
	912808	2	FITTING, lubricating, straight, 1/4"NF
16	012992	4	CAPSCREW, 3/8"NF x 1-1/4"
17	036039	3	CAPSCREW, 3/8"NF x 1-3/8"
18	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
19	044973	3	WASHER, plain
	904206	8	LOCKWASHER, 3/8"
	911041	8	NUT, 3/8"NF
20	611954	1	SHAFT, horizontal
	905122	2	KEY, #7 woodruff, 1/8" x 3/4"
21	611957	1	BRACKET, supporting, horizontal shaft
22	611975	1	CAPSCREW, 1/4"NC x 2-1/4"
	911114	1	WASHER, plain, SAE std., 1/4"
	911325	2	NUT, jam, 1/4"NC

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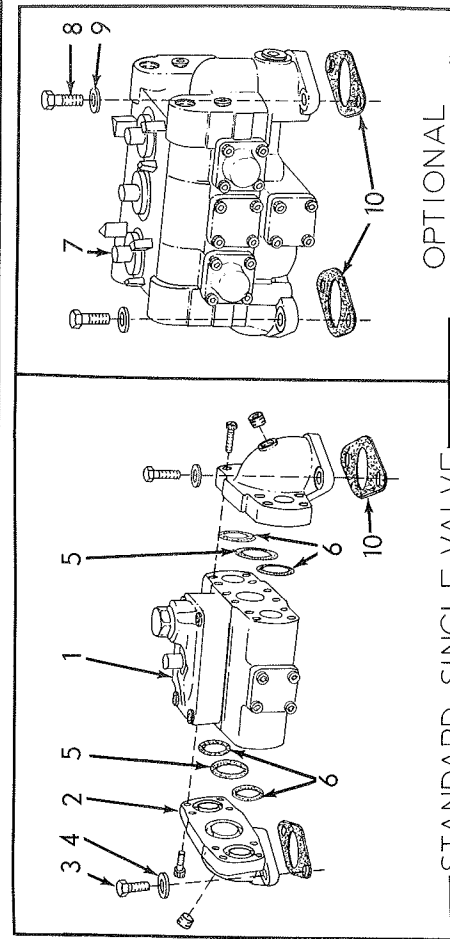
FRONT VALVE AND CONTROLS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
23	611956	1	ANGLE, shaft supporting bracket
24	013467	1	CAPSCREW, 5/8"NF x 3"
25	611961	1	PLATE, supporting, horizontal shaft rear bearing
26	036039	4	CAPSCREW, 3/8"NF x 1-3/8"
27	044973	4	WASHER, plain
	904206	4	LOCKWASHER, 3/8"
	911041	4	NUT, 3/8"NF
28	611971	1	LEVER, horizontal shaft, rear
29	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
30	611966	1	ROD, lower rear (8-5/8" long)(For tractors with oil-bath air cleaner)
	611967	1	ROD, lower rear (7-1/4" long)(For tractors with dry-type air cleaner)
	911041	2	NUT, 3/8"NF
31	611972	1	LEVER, vertical shaft, lower
32	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
33	611970	1	BRACKET, tube supporting (4-1/8" long)(For tractors with oil-bath air cleaner)
	620023	1	BRACKET, tube supporting (1-5/8" long)(For tractors with dry-type air cleaner)
34	012992	2	CAPSCREW, 3/8"NF x 1-1/4"
35	044973	2	WASHER, plain
	904206	2	LOCKWASHER, 3/8"
	911041	2	NUT, 3/8"NF
36	612864	1	TUBE, vertical shaft
37	012992	2	CAPSCREW, 3/8"NF x 1-1/4"
38	044973	2	WASHER, plain
	904206	2	LOCKWASHER, 3/8"
	911041	2	NUT, 3/8"NF
39	035018	2	CAPSCREW, 1/2"NF x 1-1/2"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
40	052662	4	SEAL, dust
41	208253	4	BEARING, needle
42	611905	1	SHAFT, vertical
	905122	2	KEY, #7 woodruff, 1/8" x 3/4"
43	611969	1	BRACKET ASSEMBLY, operating lever (Includes item 45)
44	035061	4	CAPSCREW, 1/2"NC x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
	910244	4	WASHER, plain, SAE std., 1/2"
45	611921	1	SHAFT, operating lever
	910255	1	WASHER, plain, SAE std., 3/4"
	900807	1	PIN, cotter, 1/8" x 1-1/4"

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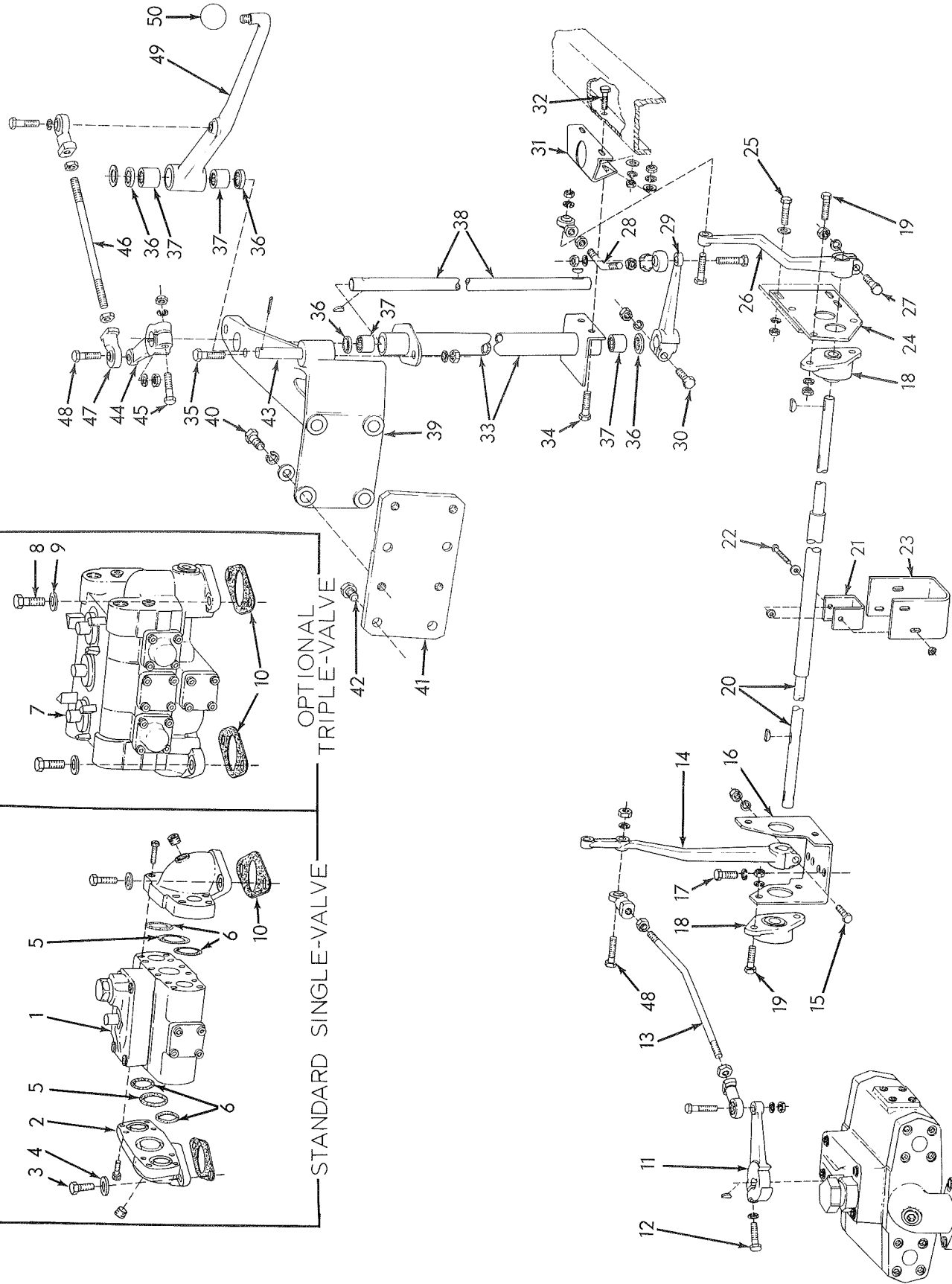
FRONT VALVE AND CONTROLS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
46	611973	1	LEVER, vertical shaft, upper
47	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
48	611966	1	ROD, upper rear (8-5/8" long)(Early units)
	611967	1	ROD, upper rear (7-1/4" long)(Late units)
	911041	2	NUT, 3/8"NF
49	618279	6	JOINT, ball and socket
	904206	6	LOCKWASHER, 3/8"
	911041	5	NUT, 3/8"NF
50	611964	1	LEVER, operating
51	091862	1	KNOB, operating lever
52	620018	1	ADAPTER, operating lever bracket (For tractors with dry-type air cleaner)
53	097494	4	CAPSCREW, 1/2"NC x 1" (Nylok)



OPTIONAL TRIPLE-VALVE

STANDARD SINGLE-VALVE



FRONT VALVE AND CONTROLS (Third type)

T-71386

FRONT VALVE AND CONTROLS

USAGE: Tractors serial No. 5393 thru 5900 with Model 16HA, HS dozers

ITEM	PART NO.	QTY.	DESCRIPTION
1	609553	1	VALVE ASSEMBLY, single-control (See page 59 for parts)(Standard equipment. Also see item 7)
2	612916	2	MANIFOLD (Also see DIVERTER VALVE AND PIPING for optional manifolds)
	904224	2	PLUG, pipe, ctsk-hd., 3/4"NPT
	917733	16	CAPSCREW, hex-socket, 3/8"NC x 1-1/4"
3	614478	4	CAPSCREW, 1/2"NF x 1-3/8"
4	618724	4	WASHER, copper
5	619798	2	RING, manifold sealing (2"O. D.)
6	619799	4	RING, manifold sealing (1-3/4"O. D.)
<u>NOTE:</u> Items 2 thru 6 are used only with single-control valve			
7	626202	1	VALVE ASSEMBLY, triple-control (See page 62 for parts)(Optional equipment. Order VALVE ASSEMBLY 649844, 2 CONNECTORS 921228, 2 CONNECTORS 922997 and 4 PLUGS 921216)
	901666	4	PLUG, pipe, ctsk-hd., 1"NPT
8	614478	4	CAPSCREW, 1/2"NF x 1-3/8"
9	618724	4	WASHER, copper
10	613128	2	GASKET, valve to tank
11	617942	1	LEVER, valve (For single-control valve)
	626220	1	LEVER, valve (For triple-control valve)
	905119	1	KEY, #3 woodruff, 1/8" x 1/2"
12	013058	1	CAPSCREW, 3/8"NC x 1-1/4"
	904206	1	LOCKWASHER, 3/8"
13	626465	1	ROD, front
	911041	2	NUT, 3/8"NF
14	625542	1	LEVER, horizontal shaft, front
15	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
16	619987	1	BRACKET, horizontal shaft front bearing
17	036034	2	CAPSCREW, 3/8"NF x 1"
	904206	2	LOCKWASHER, 3/8"
18	617132	2	BEARING ASSEMBLY, horizontal shaft (Includes FITTING indented below)
	912808	2	FITTING, lubricating, straight, 1/4"NF
19	012992	4	CAPSCREW, 3/8"NF x 1-1/4"
	904206	4	LOCKWASHER, 3/8"
	911041	4	NUT, 3/8"NF
20	626477	1	SHAFT, horizontal
	905122	2	KEY, #7 woodruff, 1/8" x 3/4"
21	611957	1	BRACKET, supporting, horizontal shaft
22	611975	1	CAPSCREW, 1/4"NC x 2-1/2"
	911114	1	WASHER, plain, SAE std., 1/4"
	911325	2	NUT, jam, 1/4"NC

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FRONT VALVE AND CONTROLS (Continued)

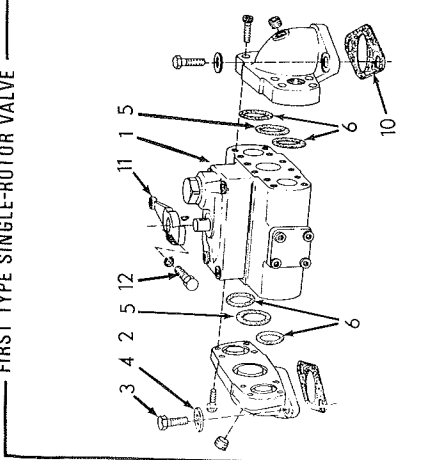
ITEM	PART NO.	QTY.	DESCRIPTION
23	619986	1	BRACKET, shaft supporting bracket
24	626459	1	PLATE, supporting, horizontal shaft rear bearing
25	036039	3	CAPSCREW, 3/8"NF x 1-3/8"
	044973	3	WASHER, plain
	904206	3	LOCKWASHER, 3/8"
	911041	3	NUT, 3/8"NF
26	611955	1	LEVER, horizontal shaft, rear
27	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
28	626462	1	ROD, lower rear (straight)(For tractors with oil-bath air cleaner)
	635098	1	ROD, lower rear (bent)(For tractors with dry-type air cleaner)
	911041	2	NUT, 3/8"NF
29	611972	1	LEVER, vertical shaft, lower
30	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
31	611970	1	BRACKET, tube supporting (4-1/8" long)(For tractors with oil-bath air cleaner)
	620023	1	BRACKET, tube supporting (1-5/8" long)(For tractors with dry-type air cleaner)
32	012992	2	CAPSCREW, 3/8"NF x 1-1/4"
	044973	2	WASHER, plain
	904206	2	LOCKWASHER, 3/8"
	911041	2	NUT, 3/8"NF
33	612864	1	TUBE, vertical shaft
34	012992	2	CAPSCREW, 3/8"NF x 1-1/4"
	044973	2	WASHER, plain
	904206	2	LOCKWASHER, 3/8"
	911041	2	NUT, 3/8"NF
35	035018	2	CAPSCREW, 1/2"NF x 1-1/2"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
36	052662	4	SEAL, dust
37	208253	4	BEARING, needle
38	611905	1	SHAFT, vertical
	905122	2	KEY, #7 woodruff, 1/8" x 3/4"
39	611969	1	BRACKET ASSEMBLY, operating lever (Includes item 43)
40	035061	4	CAPSCREW, 1/2"NC x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
	910244	4	WASHER, plain, SAE std., 1/2"
41	620018	1	ADAPTER, operating lever bracket (For tractors with dry-type air cleaner)
42	097494	4	CAPSCREW, 1/2"NC x 1" (Nylok)

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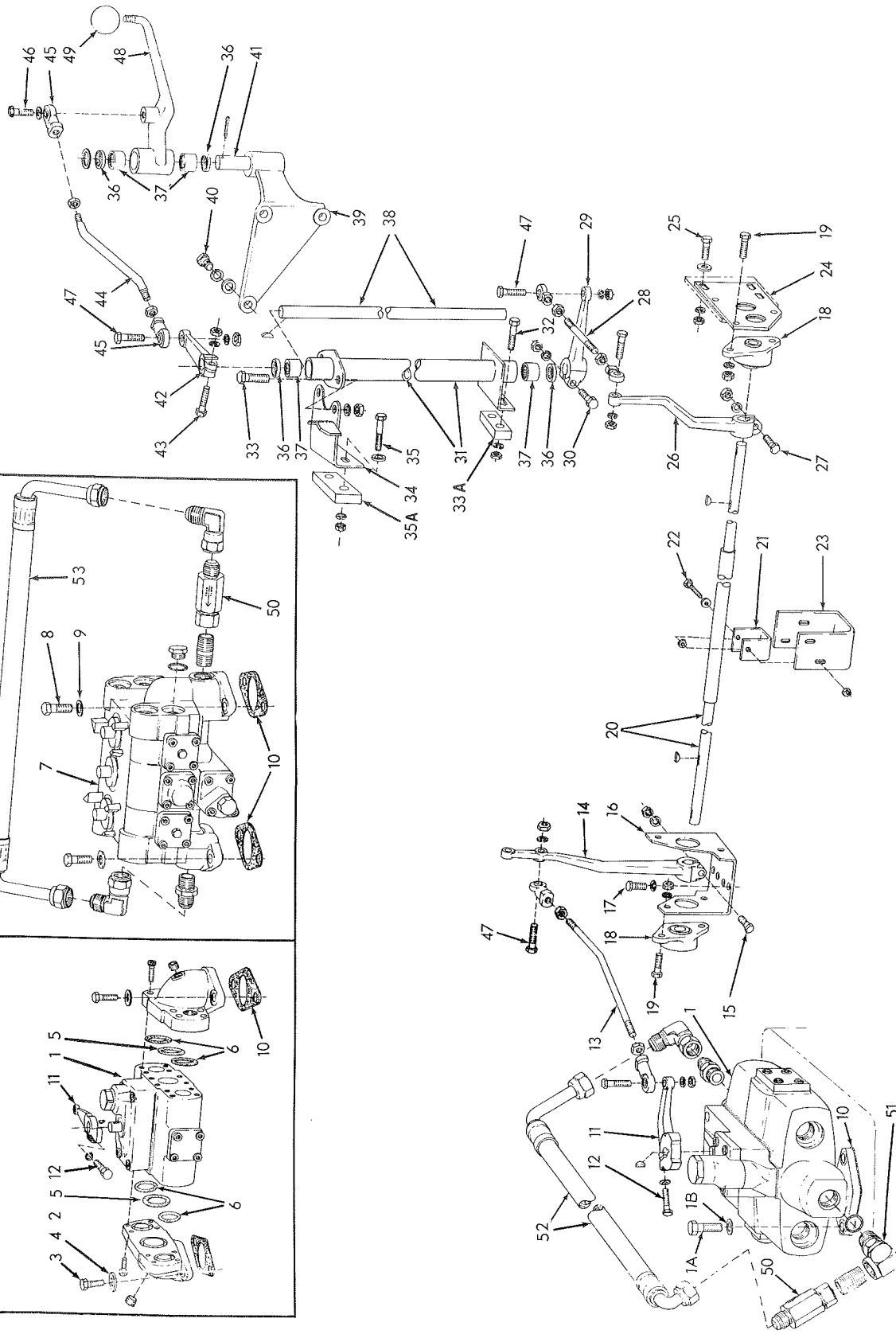
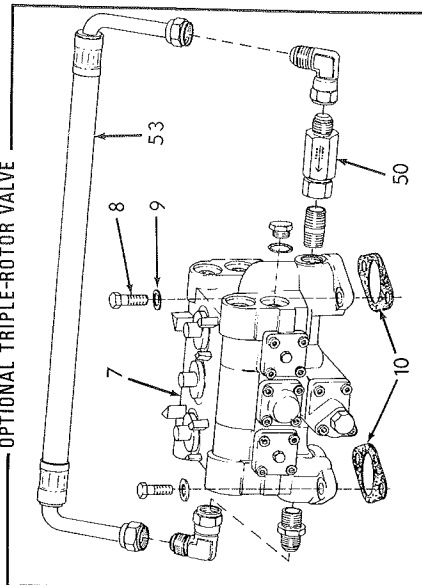
FRONT VALVE AND CONTROLS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
43	611921	1	SHAFT, operating lever
	910255	1	WASHER, plain, SAE std., 3/4"
	900807	1	PIN, cotter, 1/8" x 1-1/4"
44	611973	1	LEVER, vertical shaft, upper
45	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
46	617931	1	ROD, upper rear
	911041	2	NUT, 3/8"NF
47	617932	6	END, rod
48	203188	6	CAPSCREW, 3/8"NF x 1-1/2"
	904206	6	LOCKWASHER, 3/8"
	911041	5	NUT, 3/8"NF
49	611964	1	LEVER, operating
50	091862	1	KNOB, operating lever

FIRST TYPE SINGLE-ROTOR VALVE



OPTIONAL TRIPLE-ROTOR VALVE



T-71387

FRONT VALVE AND CONTROLS (Fourth type)

FRONT VALVE AND CONTROLS

5901 thru 9550, also 64A 9551 thru 9571

USAGE: For tractors serial No. 5901 and up with Model 16HA, HS dozers or Model 16CS dozer with hydraulic tilt.

ITEM	PART NO.	QTY.	DESCRIPTION
1	609553	1	VALVE ASSY., single-rotor (See page 59 for parts)(Standard equipment on units prior to April 1966. Also see item 7)
	668258	1	VALVE ASSY., single-rotor (See page 60 for parts)(Standard equipment on units after March 1966. Also see item 7)
	921216	2	PLUG, 1-5/16" straight thread (Includes O-RING 921214)(For Model 16CS dozer applications only)
1A	614478	4	CAPSCREW, 1/2"NF x 1-3/8"
1B	618724	4	WASHER, copper
2	612916	2	MANIFOLD (Also see DIVERTER VALVE AND PIPING for optional manifolds)
	904224	2	PLUG, pipe, ctsk-hd., 3/4"NPT
	917733	16	CAPSCREW, hex-socket, 3/8"NC x 1-1/4"
3	614478	4	CAPSCREW, 1/2"NF x 1-3/8"
4	618724	4	WASHER, copper
5	924114	2	O-RING, manifold (2"O.D.)
6	924192	4	O-RING, manifold (1-3/4"O.D.)

NOTE: Items 2 thru 6 are used only with single-rotor VALVE 609553

7	626202	1	VALVE ASSY., triple-rotor (See page 62 for parts)(Optional equipment prior to July 1965. Order VALVE ASSEMBLY 668259, 2 CONNECTORS 921228, 2 CONNECTORS 922997 and 4 PLUGS 921216 and NEUTRAL-RETURN KIT 657311)
	901666	4	PLUG, pipe, ctsk-hd., 1"NPT
	649844	1	VALVE ASSY., triple-rotor (See page 64 for parts)(Optional equipment July 1965 thru March 1967. Order VALVE ASSY. 668259 and NEUTRAL-RETURN KIT 657311)
	668259	1	VALVE ASSY., triple-rotor (See page 64 for parts)(Optional equipment effective April 1967)
	650786	1	VALVE ASSY., triple-rotor (See page 64 for parts)(Optional. For use with phosphate-ester fire-resistant hydraulic fluid)
	921216	4	PLUG, 1-5/16" straight thread (Includes O-RING 921214)
8	614478	4	CAPSCREW, 1/2"NF x 1-3/8"
9	618724	4	WASHER, copper
10	613128	2	GASKET, valve to tank
11	617942	1	LEVER, valve (For single-rotor VALVE 609553)
	647729	1	LEVER, valve (For single-rotor VALVE 649426) 668258
	626220	1	LEVER, valve (For triple-rotor valve)
12	905119	1	KEY, #3 woodruff, 1/8" x 1/2"
	013058	1	CAPSCREW, 3/8"NC x 1-1/4"
	904206	1	LOCKWASHER, 3/8"

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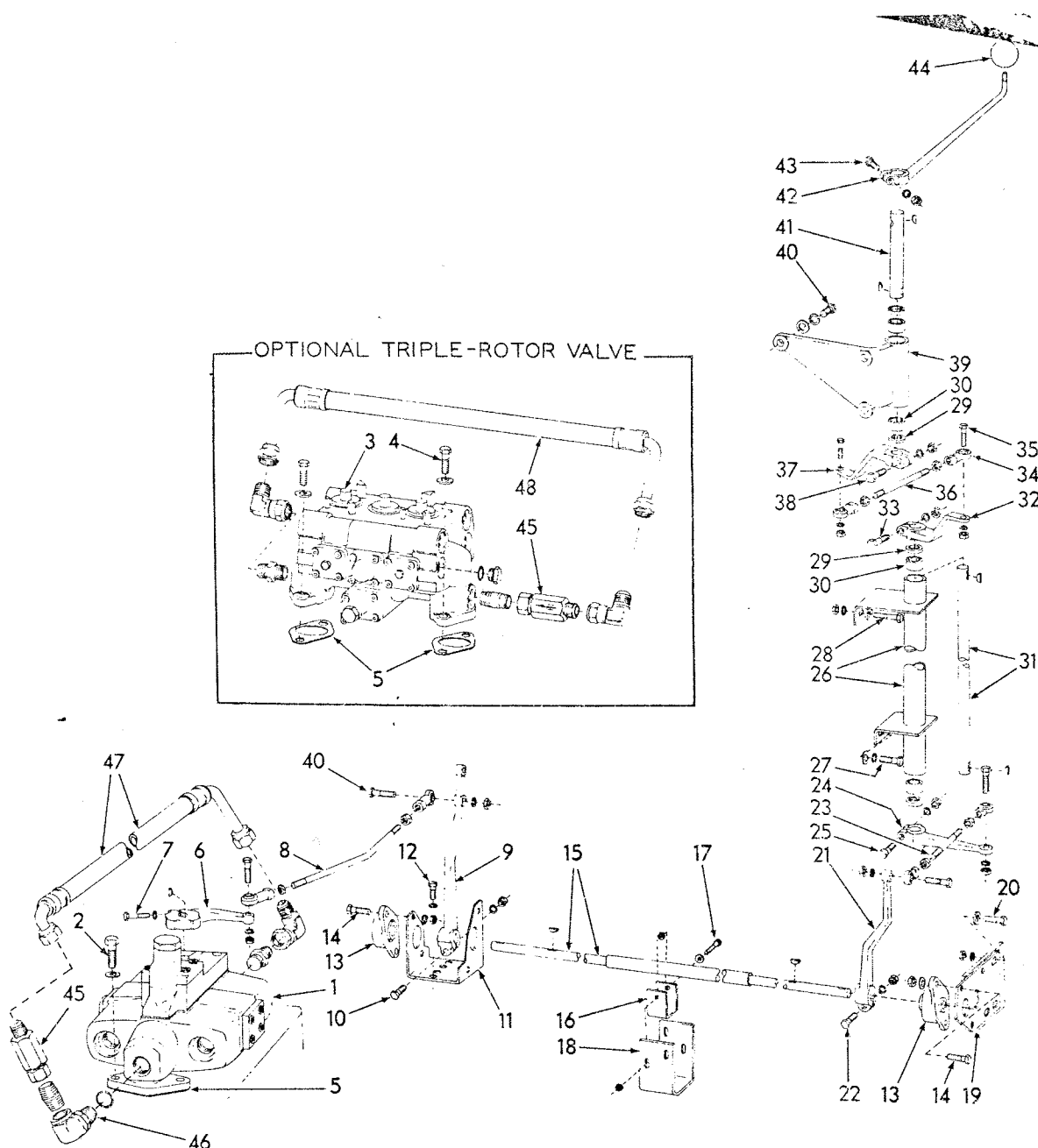
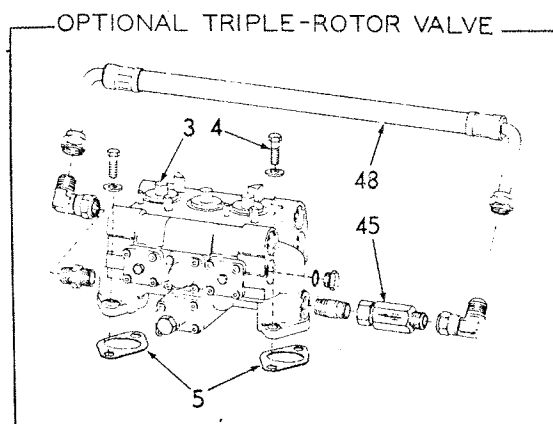
FRONT VALVE AND CONTROLS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
13	626465	1	ROD, front
	911041	2	NUT, 3/8"NF
14	625542	1	LEVER, horizontal shaft, front
15	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
16	619987	1	BRACKET, horizontal shaft front bearing
17	036034	2	CAPSCREW, 3/8"NF x 1" (Early units)
	035439	2	CAPSCREW, 3/8"NC x 1" (Late units)
	904206	2	LOCKWASHER, 3/8"
18	617132	2	BEARING, horizontal shaft
19	012992	4	CAPSCREW, 3/8"NF x 1-1/4"
	904206	4	WASHER, plain, SAE std., 1/4"
	911041	4	NUT, 3/8"NF
20	626477	1	SHAFT, horizontal
	905122	2	KEY, #7 woodruff, 1/8" x 3/4"
21	611957	1	BRACKET, supporting, horizontal shaft
22	611975	1	CAPSCREW, 1/4"NC x 2-1/2"
	911114	1	WASHER, plain, SAE std., 1/4"
	911325	2	NUT, jam, 1/4"NC
23	619986	1	BRACKET, shaft supporting bracket
24	626459	1	PLATE, supporting, horizontal shaft rear bearing
25	036039	3	CAPSCREW, 3/8"NF x 1-3/8"
	044973	3	WASHER, plain
	904206	3	LOCKWASHER, 3/8"
	911041	3	NUT, 3/8"NF
26	611955	1	LEVER, horizontal shaft, rear
27	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
28	618998	1	ROD, lower rear
	911041	2	NUT, 3/8"NF
29	611972	1	LEVER, vertical shaft, lower
30	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
31	612864	1	TUBE, vertical shaft
32	916273	2	CAPSCREW, 3/8"NC x 1-3/4"
	904206	2	LOCKWASHER, 3/8"
	911026	2	NUT, 3/8"NC
33	035018	2	CAPSCREW, 1/2"NF x 1-1/2"
	904208	2	LOCKWASHER, 3/8"
	911043	2	NUT, 1/2"
33A	664736	1	BLOCK, spacing

(Continued)

FRONT VALVE AND CONTROLS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
34	664739	1	BRACKET, tube supporting
35	910948	2	CAPSCREW, 3/8" NC x 2"
	044973	2	WASHER, plain
	904206	2	LOCKWASHER, 3/8"
	911026	2	NUT, 3/8" NC
35A	664737	1	BLOCK, spacing
36	052662	4	SEAL, dust
37	208253	4	BEARING, needle
38	611905	1	SHAFT, vertical
	905122	2	KEY, #7 woodruff, 1/8" x 3/4"
39	627647	1	BRACKET ASSY., operating lever (Includes item 41)
40	035061	3	CAPSCREW, 1/2" NC x 1-1/4"
	904208	3	LOCKWASHER, 1/2"
	910244	3	WASHER, plain, SAE std., 1/2"
41	611921	1	SHAFT, operating lever
	910255	1	WASHER, plain, SAE std., 3/4"
	900807	1	PIN, cotter, 1/8" x 1-1/4"
42	626494	1	LEVER, vertical shaft, upper
43	035336	1	CAPSCREW, 3/8" NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8" NF
44	627645	1	ROD, upper rear
	911041	2	NUT, 3/8" NF
45	617932	6	END, rod
46	012992	1	CAPSCREW, 3/8" NF x 1-1/4"
47	203188	5	CAPSCREW, 3/8" NF x 1-1/2"
	904206	6	LOCKWASHER, 3/8"
	911041	5	NUT, 3/8" NF
48	657637	1	LEVER, operating
49	091862	1	KNOB, operating lever (1/2" NC)(Early units)
	090020	1	KNOB, operating lever (1/2" NF)(Late units)
50	668246	1	VALVE ASSY., pressure relief (Serviced only as a unit)
	916631	1	NIPPLE, pipe, 1" NPT x 1-1/2" (Used with single-rotor valve only)
51	668264	1	ELBOW, swivel, pressure relief valve (Includes O-RING 921214) (Used with single-rotor valve only)
52	668253	1	HOSE, jumper (See HOSE PARTS)(Used with single-rotor valve only)
	919625	1	ELBOW, flare type, 90°, swivel nut, 1" tube
	919064	1	CONNECTOR, flare type, 1" tube, 1" NPT male
53	668245	1	HOSE, jumper (See HOSE PARTS)(Used with triple-rotor valve only)
	919625	2	ELBOW, flare type, 90°, swivel nut, 1" tube
	919064	1	CONNECTOR, flare type, 1" tube, 1" NPT male



FRONT VALVE AND CONTROLS (Fifth type)

T-76062

Insert in HD16 Hydraulic Systems parts catalog 0650367-6 (6-67)

(Added July 1970)

Printed in U.S.A.

43A

TP101

FRONT VALVE AND CONTROLS

USAGE: For tractors serial No. 64A09572 and up and 24609572 and up when equipped with Model 16HA, HS dozers or Model 16CS dozer with hydraulic tilt.

ITEM	PART NO.	QTY.	DESCRIPTION
1	0668258-7	1	VALVE ASSY., single-rotor (See page 60 for parts) (Standard. Also see item 7)
	0921216-8	2	PLUG, 1-5/16" straight thread (Includes O-RING 0921214-3)(For Model 16CS dozer applications only)
2	0614478-6	4	CAPSCREW, 1/2"NF x 1-3/8"
	0618724-9	4	WASHER, copper
3	0668259-5	1	VALVE ASSY., tripple-rotor (See page 64 for parts)(Optional)
	0650786-7	1	VALVE ASSY., triple-rotor (See page 64 for parts)(Optional. For use with phosphate-ester fire-resistant hydraulic fluid)
	0921216-8	4	PLUG, 1-5/16" straight thread (Includes O-RING 0921214-3)
4	0614478-6	4	CAPSCREW, 1/2"NF x 1-3/8"
	0618724-9	4	WASHER, copper
5	0613128-8	2	GASKET, valve to tank
6	0647729-3	1	LEVER, valve (For single-rotor VALVE)
	0626220-8	1	LEVER, valve (For triple-rotor valve)
7	0905119-4	1	KEY, #3 woodruff, 1/8" x 1/2"
	0013058-3	1	CAPSCREW, 3/8"NC x 1-1/4"
	0904206-0	1	LOCKWASHER, 3/8"
8	0626465-9	1	ROD, front
	0911041-2	2	NUT, 3/8"NF
9	0625542-6	1	LEVER, horizontal shaft, front
10	0035336-7	1	CAPSCREW, 3/8"NF x 1-3/4"
	0904206-0	1	LOCKWASHER, 3/8"
	0911041-2	1	NUT, 3/8"NF
11	0619987-1	1	BRACKET, horizontal shaft front bearing
12	0035439-9	2	CAPSCREW, 3/8"NC x 1"
	0904206-0	2	LOCKWASHER, 3/8"
13	0617132-6	2	BEARING, horizontal shaft
14	0012992-4	4	CAPSCREW, 3/8"NF x 1-1/4"
	0904206-0	4	WASHER, plain, SAE std., 1/4"
	0911041-2	4	NUT, 3/8"NF
15	0626477-4	1	SHAFT, horizontal
	0905122-8	2	KEY, #7 woodruff, 1/8" x 3/4"
16	0611957-2	1	BRACKET, supporting, horizontal shaft
17	0611975-4	1	CAPSCREW, 1/4"NC x 2-1/2"
	0911114-7	1	WASHER, plain, SAE std., 1/4"
	0911325-9	2	NUT, jam, 1/4"NC
18	0619986-3	1	BRACKET, shaft supporting bracket (Standard)
	0670330-0	1	BRACKET, shaft supporting bracket (Special. For units equipped with turbocharger)

(Continued)

Insert in HD16 Hydraulic Systems parts catalog 0650367-6 (6-67)
Printed in U.S.A.

43B

(Added July 1970)

T P 101

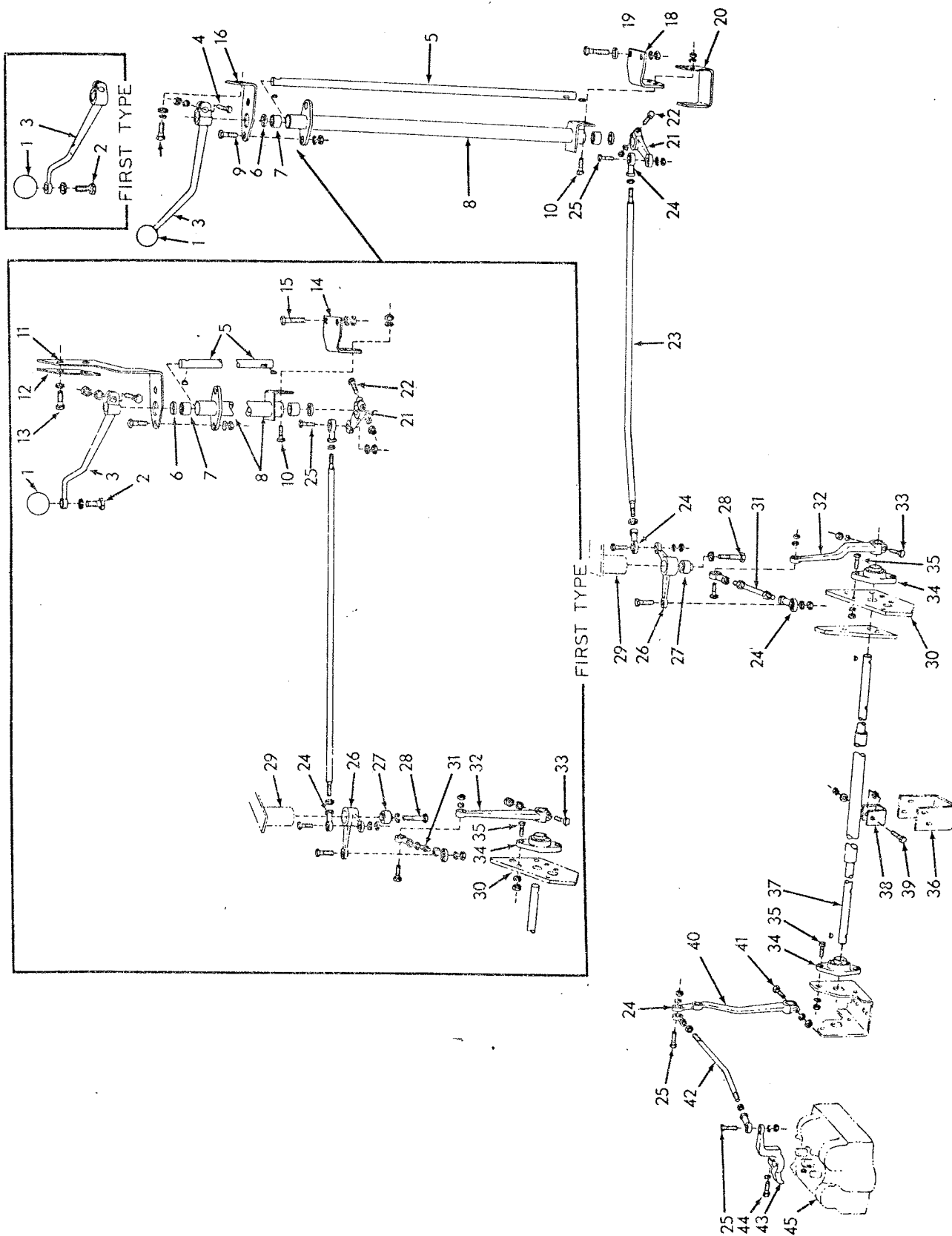
FRONT VALVE AND CONTROLS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
19	0626459-2	1	PLATE, supporting, horizontal shaft rear bearing
20	0036039-6	3	CAPSCREW, 3/8"NF x 1-3/8"
	0044973-6	3	WASHER, plain
	0904206-0	3	LOCKWASHER, 3/8"
	0911041-2	3	NUT, 3/8"NF
21	0611955-6	1	LEVER, horizontal shaft, rear
22	0035336-7	1	CAPSCREW, 3/8"NF x 1-3/4"
	0904206-0	1	LOCKWASHER, 3/8"
	0911041-2	1	NUT, 3/8"NF
23	0618998-9	1	ROD, lower rear
	0911041-2	2	NUT, 3/8"NF
24	0611972-1	1	LEVER, lower
25	0035336-7	1	CAPSCREW, 3/8"NF x 1-3/4"
	0904206-0	1	LOCKWASHER, 3/8"
	0911041-2	1	NUT, 3/8"NF
26	0668139-9	1	TUBE, vertical shaft
27	0916271-0	2	CAPSCREW, 3/8"NC x 1"
	0904206-0	2	LOCKWASHER, 3/8"
	0916311-4	2	CAPSCREW, 1/2"NC x 1-1/4"
28	0064531-7	4	WASHER, plain
	0904208-6	2	LOCKWASHER, 1/2"
	0911028-9	2	NUT, 1/2"NC
29	0052662-4	4	SEAL, dust
30	0208253-5	4	BEARING, needle
31	0668134-0	1	SHAFT, vertical, lower
	0905122-8	2	KEY, #7 woodruff, 1/8" x 3/4"
32	0668133-2	1	LEVER, intermediate
33	0920995-8	1	CAPSCREW, 3/8"NC x 2"
	0910287-2	1	LOCKWASHER, 3/8"
	0911026-3	1	NUT, 3/8"NC
34	0617932-9	6	END, rod
35	0203188-8	6	CAPSCREW, 3/8"NF x 1-1/2"
	0904206-0	6	LOCKWASHER, 3/8"
	0911041-2	6	NUT, 3/8"NF
36	0641968-3	1	ROD, upper rear
	0911041-2	2	NUT, 3/8"NF
37	0668131-6	1	LEVER, upper
38	0920995-8	1	CAPSCREW, 3/8"NC x 2"
	0910287-2	1	LOCKWASHER, 3/8"
	0911026-3	1	NUT, 3/8"NC
39	0668127-4	1	BRACKET ASSY., operating lever
40	0035061-1	3	CAPSCREW, 1/2"NC x 1-1/4"
	0904208-6	3	LOCKWASHER, 1/2"
	0910244-3	3	WASHER, plain, SAE std., 1/2"
41	0668118-3	1	SHAFT, vertical, upper
	0905122-8	2	KEY, #7 woodruff, 1/8" x 3/4"

(Continued)

FRONT VALVE AND CONTROLS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
42	0668124-1	1	LEVER, operating
43	0920995-8	1	CAPSCREW, 3/8"NC x 2"
	0910287-2	1	LOCKWASHER, 3/8"
	0911026-3	1	NUT, 3/8"NC
44	0090020-9	1	KNOB, operating lever
45	0668246-2	1	VALVE ASSY., pressure relief (Serviced only as a unit)
	0916631-5	1	NIPPLE, pipe, 1"NPT x 1-1/2" (Used with single-rotor valve only)
46	0668264-5	1	ELBOW, swivel, pressure relief valve (Includes O-RING 0921214-3)(Used with single-rotor valve only)
47	0668253-8	1	HOSE, jumper (See HOSE PARTS)(Used with single-rotor valve only)
	0919625-4	1	ELBOW, flare type, 90°, swivel nut, 1" tube
	0919064-6	1	CONNECTOR, flare type, 1" tube, 1"NPT male
48	0668245-4	1	HOSE, jumper (See HOSE PARTS)(Used with triple-rotor valve only)
	0919625-4	2	ELBOW, flare type, 90°, swivel nut, 1" tube
	0919064-6	1	CONNECTOR, flare type, 1" tube, 1"NPT male



T-71388

VALVE CONTROL (For rear outlet)

VALVE CONTROL

USAGE: For tractors with triple-control valve and rear piping. Provides rear hydraulic outlet for operating auxiliary equipment

* Tractors prior to serial No. 5901
 ** Tractors serial No. 5901 and up

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	091862	1	1	KNOB, operating lever (1/2"NC)(For LEVER 611904
	090020	-	1	KNOB, operating lever (1/2"NF)(For LEVER 646384)
2	035061	1	1	CAPSCREW, operating lever knob (For LEVER 611904 only)
	904208	1	1	LOCKWASHER, 1/2"
3	611904	1	1	LEVER, operating (Used prior to June 1965)
	646384	-	1	LEVER, operating (Effective June 1965)
4	035336	1	1	CAPSCREW, 3/8"NF x 1-3/4" (For LEVER 611904)
	046419	-	1	CAPSCREW, 3/8"NF x 2" (For LEVER 646384)
	904206	1	1	LOCKWASHER, 3/8"
	911041	1	1	NUT, 3/8"NF
5	626458	1	-	SHAFT, operating lever
	611905	-	1	SHAFT, operating lever (For use with LEVER 611904)
	625544	-	1	SHAFT, operating lever (For use with LEVER 646384)
	905122	2	2	KEY, #7, woodruff, 1/8" x 3/4"
6	052662	2	2	SEAL, dust, shaft bearing
7	208253	2	2	BEARING, needle, operating lever shaft
8	611909	1	1	TUBE, operating lever shaft
9	614478	2	2	CAPSCREW, 1/2"NF x 1-3/8"
	904208	2	2	LOCKWASHER, 1/2"
	911043	2	2	NUT, 1/2"NF
	035167	2	-	CAPSCREW, 3/8"NF x 7/8"
	012992	-	2	CAPSCREW, 3/8"NF x 1-1/4"
	904206	2	2	LOCKWASHER, 3/8"
	911041	2	2	NUT, 3/8"NF
11	618900	1	-	BRACKET, tube supporting
12	618889	1	-	PLATE, bracket clamping
13	036034	2	-	CAPSCREW, 3/8"NF x 1"
	904206	2	-	LOCKWASHER, 3/8"
14	625716	1	-	ANGLE, tube supporting
15	070467	2	-	CAPSCREW, 1/2"NF x 1"
	904208	2	-	LOCKWASHER, 1/2"
	911043	2	-	NUT, 1/2"NF
16	627905	-	1	ANGLE, tube supporting, upper
17	070469	-	2	CAPSCREW, 1/2"NF x 1-1/4"
	904208	-	2	LOCKWASHER, 1/2"
	064531	-	2	WASHER, plain

(Continued)

VALVE CONTROL (Continued)

ITEM	PART NO.	QTY. * **		DESCRIPTION
18	627996	-	1	ANGLE, tube supporting, lower
19	035229	-	2	CAPSCREW, 5/8"NF x 2"
	064810	-	2	WASHER, plain
	904209	-	1	LOCKWASHER, 5/8"
	911044	-	1	NUT, 5/8"NF
20	627895	-	1	STOP, lower lever
21	625561	1	1	LEVER, lower
22	035336	1	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	1	LOCKWASHER, 3/8"
	911041	1	1	NUT, 3/8"NF
23	626463	1	1	ROD, connecting, rear
	911041	2	2	NUT, 3/8"NF
24	617932	6	6	END, connecting rod
25	203188	6	6	CAPSCREW, 3/8"NF x 1-1/2"
	904206	6	6	LOCKWASHER, 3/8"
	911041	6	6	NUT, 3/8"NF
26	618111	1	1	BELLCRANK
27	606392	1	1	BEARING, bellcrank
28	035336	1	1	CAPSCREW, 3/8"NF x 1-3/4" (Early units)
	053616	1	1	CAPSCREW, 3/8"NC x 1-3/4" (Late units)
	904206	1	1	LOCKWASHER, 3/8"
29	-----	1	1	CHANNEL, supporting (See FLOOR in tractor Parts List)
30	-----	-	-	PLATE (See FRONT VALVE AND CONTROLS)
31	626464	1	-	ROD, connecting, intermediate (2-1/4" long)
	617931	-	1	ROD, connecting, intermediate (8" long)
	911041	2	2	NUT, 3/8"NF
32	611972	1	-	LEVER, control shaft, rear
	611955	-	1	LEVER, control shaft, rear
33	035336	1	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	1	LOCKWASHER, 3/8"
	911041	1	1	NUT, 3/8"NF
34	617132	2	2	BEARING ASSEMBLY, control shaft (Includes FITTING indented below)
35	912808	2	2	FITTING, lubricating, straight, 1/4"NF
	012992	4	3	CAPSCREW, 3/8"NF x 1-1/4"
	035336	-	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	4	4	LOCKWASHER, 3/8"
	911041	4	4	NUT, 3/8"NF
36	-----	-	-	BRACKET (See FRONT VALVE AND CONTROLS)
37	626477	1	1	SHAFT, control
	905122	2	2	KEY, #7 woodruff, 1/8" x 3/4"

(Continued)

VALVE CONTROL (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
38	611957	1	1	BRACKET, shaft supporting
39	611975	1	1	CAPSCREW, 1/4"NC x 2-1/2"
	911114	1	1	WASHER, plain, SAE std., 1/4"
	911325	2	2	NUT, jam, 1/4"NC
40	625542	1	1	LEVER, control shaft, front
41	035336	1	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	1	LOCKWASHER, 3/8"
	911041	1	1	NUT, 3/8"NF
42	626466	1	1	ROD, connecting, front
	911041	2	2	NUT, 3/8"NF
43	626217	1	1	LEVER, valve
	905119	1	1	KEY, #3 woodruff, 1/8" x 1/2"
44	013058	1	1	CAPSCREW, 3/8"NC x 1-1/4"
	904206	1	1	LOCKWASHER, 3/8"
45	-----	-	-	VALVE ASSEMBLY (See FRONT VALVE AND CONTROLS)

VALVE CONTROL

USAGE: For tractors equipped with triple-control valve. Permits operation of dozer hydraulic tilt or any similar function thru left section of valve.

* Tractors prior to serial No. 5901
 ** Tractors serial No. 5901 and up

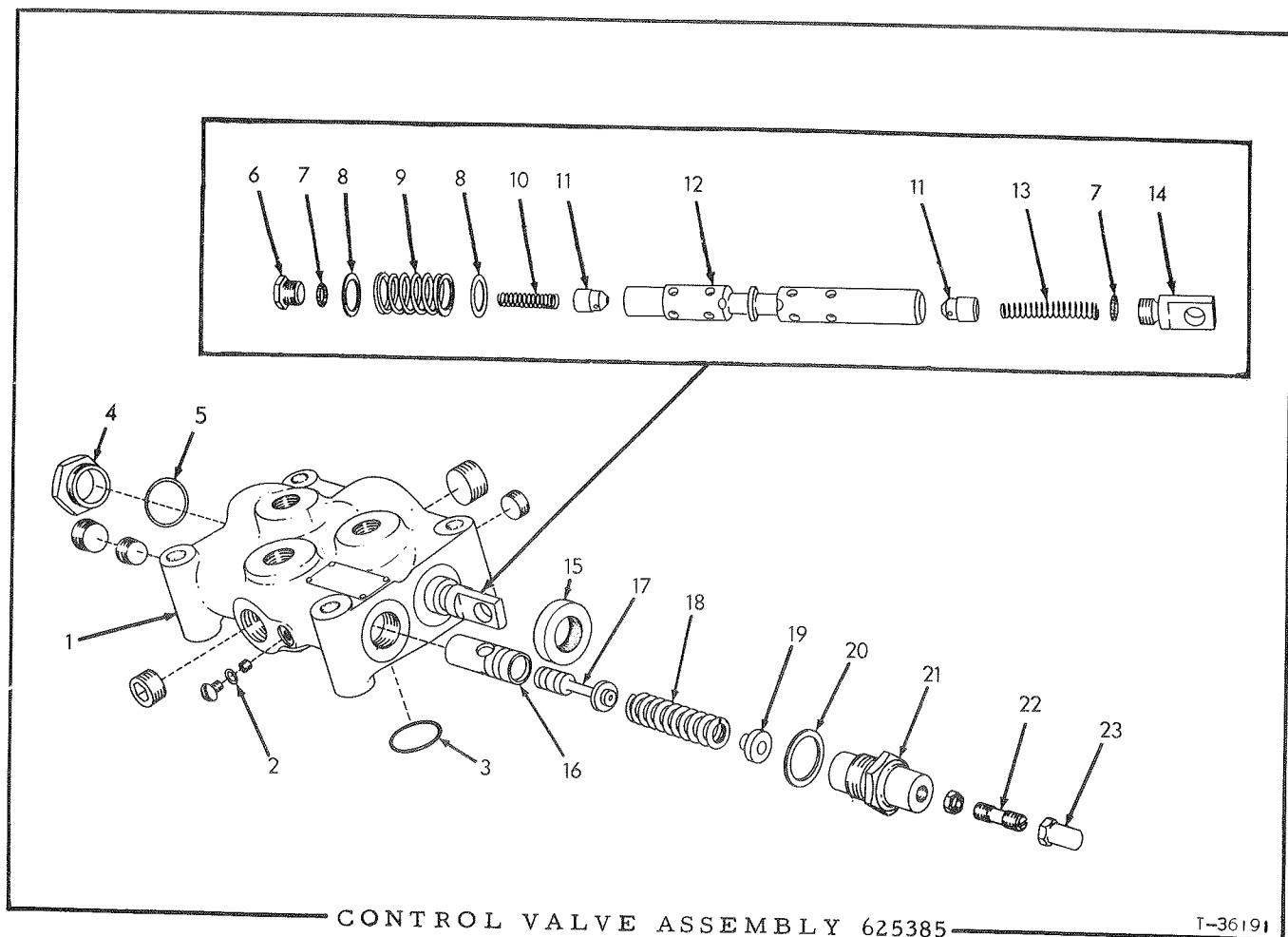
ITEM	PART NO.	QTY. * **	DESCRIPTION
1	{ 091862	1 -	KNOB, operating lever (1/2"NC)
	090020	- 1	KNOB, operating lever (1/2"NF)
2	{ 626480	1 -	LEVER, operating
	657228	- 1	□LEVER, operating
3	657223	- 1	□CENTERING ASSEMBLY, operating lever (Consists of items 5 thru 11)
4	013058	- 1	□CAPSCREW, 3/8"NC x 1-1/4"
	904206	- 1	□LOCKWASHER, 3/8"
5	657224	- 1	CAP, centering unit
6	657225	- 1	CAPSCREW, centering unit
7	913528	- 1	NUT, elastic stop, 3/8"NF
	911048	- 1	NUT, jam, 3/8"NF
8	657226	- 2	WASHER, centering unit
9	635331	- 1	SPRING, centering unit
10	657227	- 1	TUBE, centering unit
11	617932	- 1	END, centering unit
12	070403	- 1	□CAPSCREW, centering unit pivot (1/2"NF x 3")
13	038234	- 1	□NUT, high, 1/2"NF
14	657229	- 1	□BAR, mounting, centering unit
	916315	- 2	□CAPSCREW, 1/2"NC x 2-1/4"
	904208	- 2	□LOCKWASHER, 1/2"
15	606392	1 1	BEARING, operating lever
	914339	1 -	CAPSCREW, 3/8"NF x 2-3/4"
	913528	1 -	NUT, elastic, stop, 3/8"NF
	045174	- 1	CAPSCREW, 3/8"NF x 2-1/2"
	904206	- 1	LOCKWASHER, 3/8"
16	626499	1 -	BRACKET, operating lever
17	035018	1 -	CAPSCREW, 1/2"NF x 1-1/2"
	904208	1 -	LOCKWASHER, 1/2"
	911043	1 -	NUT, 1/2"NF
18	627919	- 1	BRACKET, operating lever
19	035061	- 2	CAPSCREW, 1/2"NC x 1-1/4"
	904208	- 2	LOCKWASHER, 1/2"
20	617932	4 4	END, connecting rod
21	012992	1 1	CAPSCREW, 3/8"NF x 1-1/4"
22	203188	3 3	CAPSCREW, 3/8"NF x 1-1/2"
	904206	4 4	LOCKWASHER, 3/8"
	911041	3 3	NUT, 3/8"NF
23	{ 626466	1 -	ROD, connecting, rear
	627783	- 1	ROD, connecting, rear
	911041	2 2	NUT, 3/8"NF
24	626494	1 1	LEVER, control shaft, rear
	905122	1 1	KEY, #7 woodruff, 1/8" x 3/4"
25	035336	1 1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1 1	LOCKWASHER, 3/8"
	911041	1 1	NUT, 3/8"NF

(Continued)

VALVE CONTROL (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
26	611961	1 -	PLATE, supporting, control shaft rear bearing (Requires welding to install)
	627786	- 1	PLATE, supporting, control shaft rear bearing
	012992	- 3	CAPSCREW, 3/8"NF x 1-1/4"
	904206	- 3	LOCKWASHER, 3/8"
	911041	- 3	NUT, 3/8"NF
27	617132	1 1	BEARING ASSEMBLY, control shaft, rear (Includes FITTING indented below)
28	912808	1 1	FITTING, lubricating, straight, 1/4"NF
	036039	2 2	CAPSCREW, 3/8"NF x 1-3/8"
	044973	2 2	WASHER, plain
	904206	2 2	LOCKWASHER, 3/8"
	911041	2 2	NUT, 3/8"NF
29	627170	1 1	SHAFT, control
30	611956	1 1	ANGLE, shaft supporting bracket
	035229	1 1	CAPSCREW, 5/8"NF x 2"
31	611957	1 1	BRACKET, shaft supporting
32	611975	1 1	CAPSCREW, 1/4"NC x 2-1/2"
	911114	1 1	WASHER, plain, SAE std., 1/4"
	911325	2 2	NUT, jam, 1/4"NC
33	619777	1 -	BRACKET (Used to support Hydraulic Control Hoses in place of standard ANGLE 089612)
34	611901	1 1	BEARING ASSEMBLY, control shaft, front (Includes FITTING indented below)
	912808	1 1	FITTING, lubricating, straight, 1/4"NF
35	012992	4 4	CAPSCREW, 3/8"NF x 1-1/4"
	904206	4 4	LOCKWASHER, 3/8"
	911041	4 4	NUT, 3/8"NF
36	619935	1 1	ANGLE, supporting, control shaft, front bearing
	012992	2 2	CAPSCREW, 3/8"NF x 1-1/4" (Early units)
37	013058	2 2	CAPSCREW, 3/8"NC x 1-1/4" (Late units)
	904206	2 2	LOCKWASHER, 3/8"
	044973	2 2	WASHER, plain
38	619809	1 1	BLOCK, tapped, bracket attachment (Requires welding to install) (Used on early units only)
39	625542	1 1	LEVER, control shaft, front
	905122	1 1	KEY, #7 woodruff, 1/8" x 3/4"
40	035336	1 1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1 1	LOCKWASHER, 3/8"
	911041	1 1	NUT, 3/8"NF
41	617931	1 1	ROD, connecting, front
	911041	2 2	NUT, 3/8"NF
42	626217	1 1	LEVER, valve
	905119	1 1	KEY, #3 woodruff, 1/8" x 1/2"
43	013058	1 1	CAPSCREW, 3/8"NC x 1-1/4"
	904206	1 1	LOCKWASHER, 3/8"
44	-----	- -	VALVE ASSEMBLY (See FRONT VALVE AND CONTROLS)
45	657311	- 1	NEUTRAL RETURN KIT (Consists of items 2 thru 14)(Required when 657249 VALVE is used in place of 649844 VALVE on units equipped with Dozer Hydraulic Tilt. Not illustrated)

□ Components of item 45



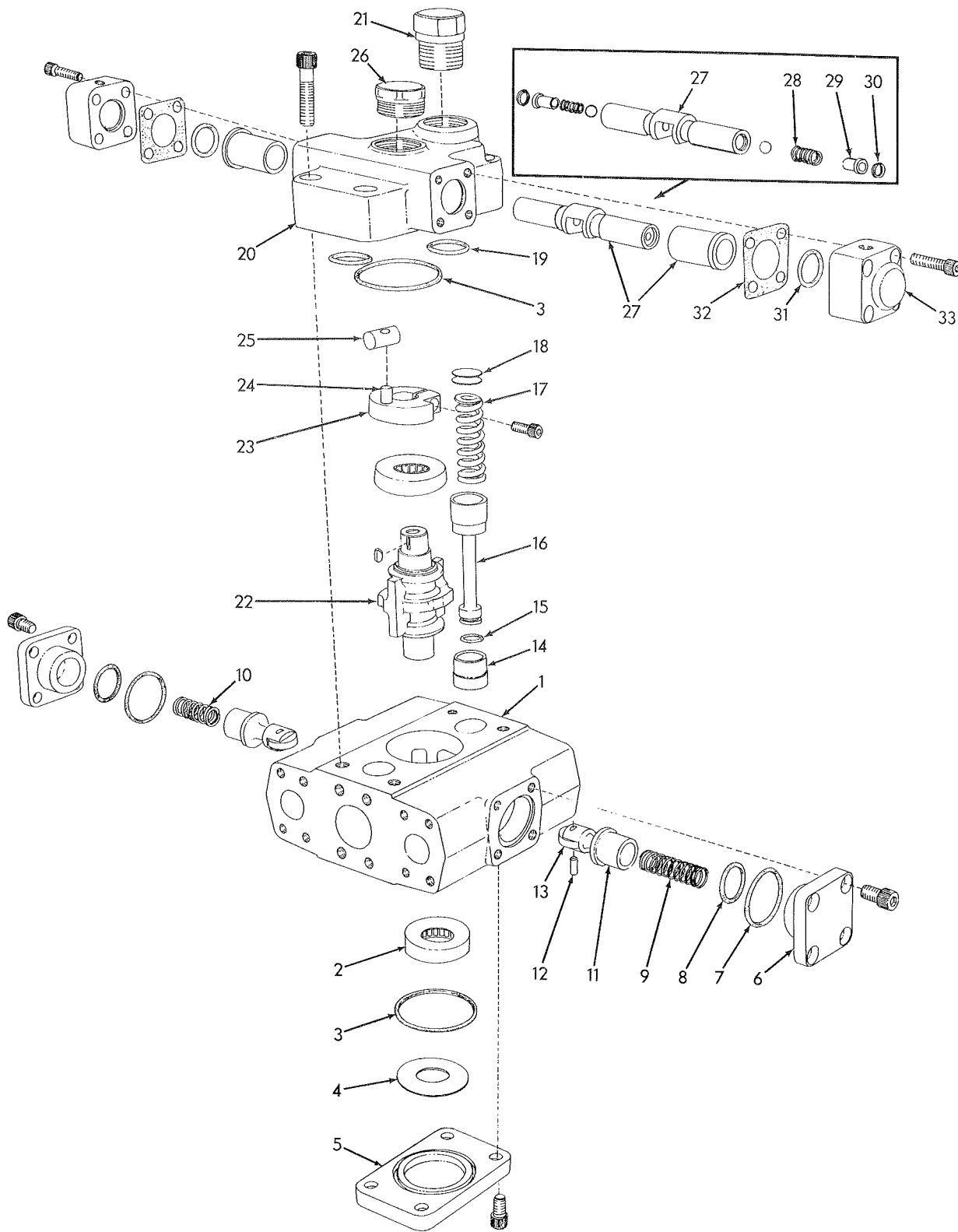
USAGE: For rear-mounted tank. See page 29

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	HOUSING (Not serviced separately)
	908944	2	PLUG, pipe, hex-socket, 1/2"NPT
	909091	2	PLUG, pipe, hex-socket, 3/4"NPT
	909365	1	PLUG, pipe, hex-socket, 1"NPT
	914372	1	SCREW, machine, 5/16"NC x 3/8"
2	3001737	1	GASKET, screw (fibre)
3	924192	1	O-RING, valve housing
4	3002763	1	CAP, plunger
5	3001731	1	GASKET, plunger cap
6	3028743	1	PLUG, operating plunger
7	3002746	2	O-RING, operating plunger
8	3002745	2	WASHER, plunger return spring
9	3002747	1	SPRING, return, operating plunger
10	3002749	1	SPRING, plunger front check valve
11	3002748	2	PLUNGER, check valve

(Continued)

CONTROL VALVE ASSEMBLY 625385

ITEM	PART NO.	QTY.	DESCRIPTION
12	-----	1	PLUNGER, operating (Not serviced separately)
13	3002750	1	SPRING, plunger rear check valve
14	3002751	1	EYE, operating plunger
15	3016485	1	SEAL, oil, operating plunger
16	3002752	1	SEAT, relief valve
	905564	1	SETSCREW, hex-socket, cup-pt., 5/16"NC x 3/8"
17	3002753	1	PLUNGER, relief valve
18	3023924	1	SPRING, relief valve
19	3002756	1	GUIDE, relief valve spring
20	3002755	1	GASKET, relief valve cap
21	3002759	1	CAP, relief valve
22	921303	1	SETSCREW, slotted, oval-pt., 3/8"NF
	911048	1	NUT, jam, 3/8"NF
23	3002757	1	NUT, acorn, relief valve



CONTROL VALVE ASSEMBLY 606301

T-14092

CONTROL VALVE ASSEMBLY 606301

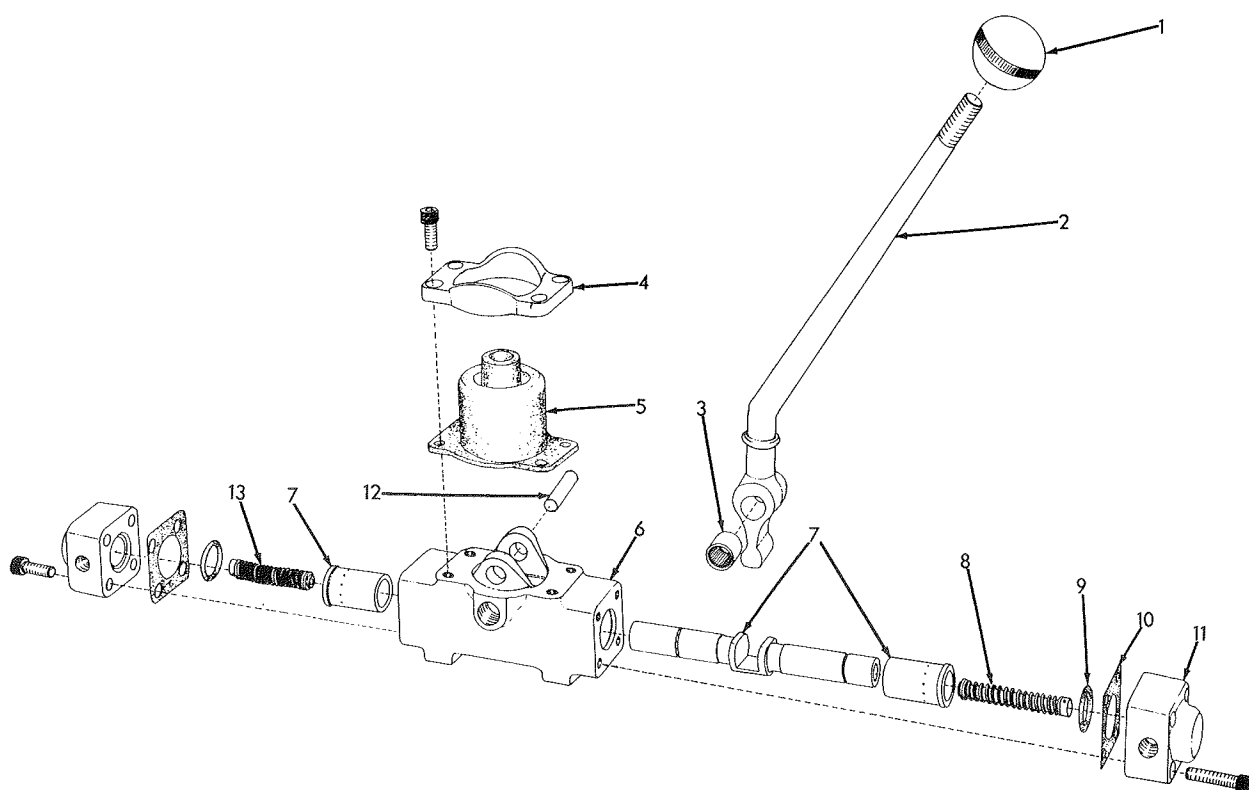
USAGE: See page 31

ITEM	PART NO.	QTY.	DESCRIPTION
1	607440	1	HOUSING
2	617868	2	BEARING, rotor
3	924093	2	O-RING, top and bottom heads
4	618301	1	SHIM, bottom head (.001" thick)
	618302	1	SHIM, bottom head (.002" thick)
	618303	1	SHIM, bottom head (.003" thick)
Use as required			
5	607442	1	HEAD, bottom (Used prior to October 1959)
	619218	1	HEAD, bottom (Effective October 1959)
	918314	4	CAPSCREW, hex-socket-hd., 7/16"NC x 3/4"
6	607453	2	CAP, housing
	912266	8	CAPSCREW, hex-socket-hd., 3/8"NC x 3/4"
7	924112	2	O-RING, housing cap, outer
8	923648	2	O-RING, housing cap, inner
9	619261	1	SPRING, raise valve (light)
10	619260	1	SPRING, drop valve (heavy)
11	607429	2	VALVE
12	607432	2	PIN, valve roller
13	607430	2	ROLLER, valve
14	619204	1	SEAT, pressure relief valve
15	923376	1	O-RING, pressure relief valve
16	607451	1	VALVE, pressure relief
17	607423	1	SPRING, pressure relief valve
18	625668	4	SHIM, pressure relief valve spring (Use as required)
19	924111	2	O-RING, top head
20	607436	1	HEAD, top
	918315	4	CAPSCREW, hex-socket-hd., 7/16"NC x 1-3/4"
21	625667	1	CAP, pressure relief valve
22	619250	1	ROTOR
	905119	1	KEY, #3 woodruff, 1/8" x 1/2"
23	607418	1	CRANK ASSEMBLY (Includes item 24)
	912264	1	CAPSCREW, hex-socket-hd., 5/16"NC x 1"
24	-----	1	PIN, crank

(Continued)

CONTROL VALVE ASSEMBLY 606301 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
25	607450	1	PIN, swivel
26	607443	1	CAP, top head
27	607420	1	PISTON ASSEMBLY, operating (1 piston and 2 matched cylinders. Serviced only as a unit)
	915905	2	BALL, steel, 3/8" diam.
28	607424	2	SPRING, operating piston
29	607445	2	RETAINER, operating piston spring
30	607454	2	RING, snap, operating piston
31	924922	2	O-RING, top head cap
32	607409	2	GASKET, top head cap
33	607407	2	CAP, top head
	918310	8	CAPSCREW, hex-socket-hd., 5/16"NC x 1-1/4"

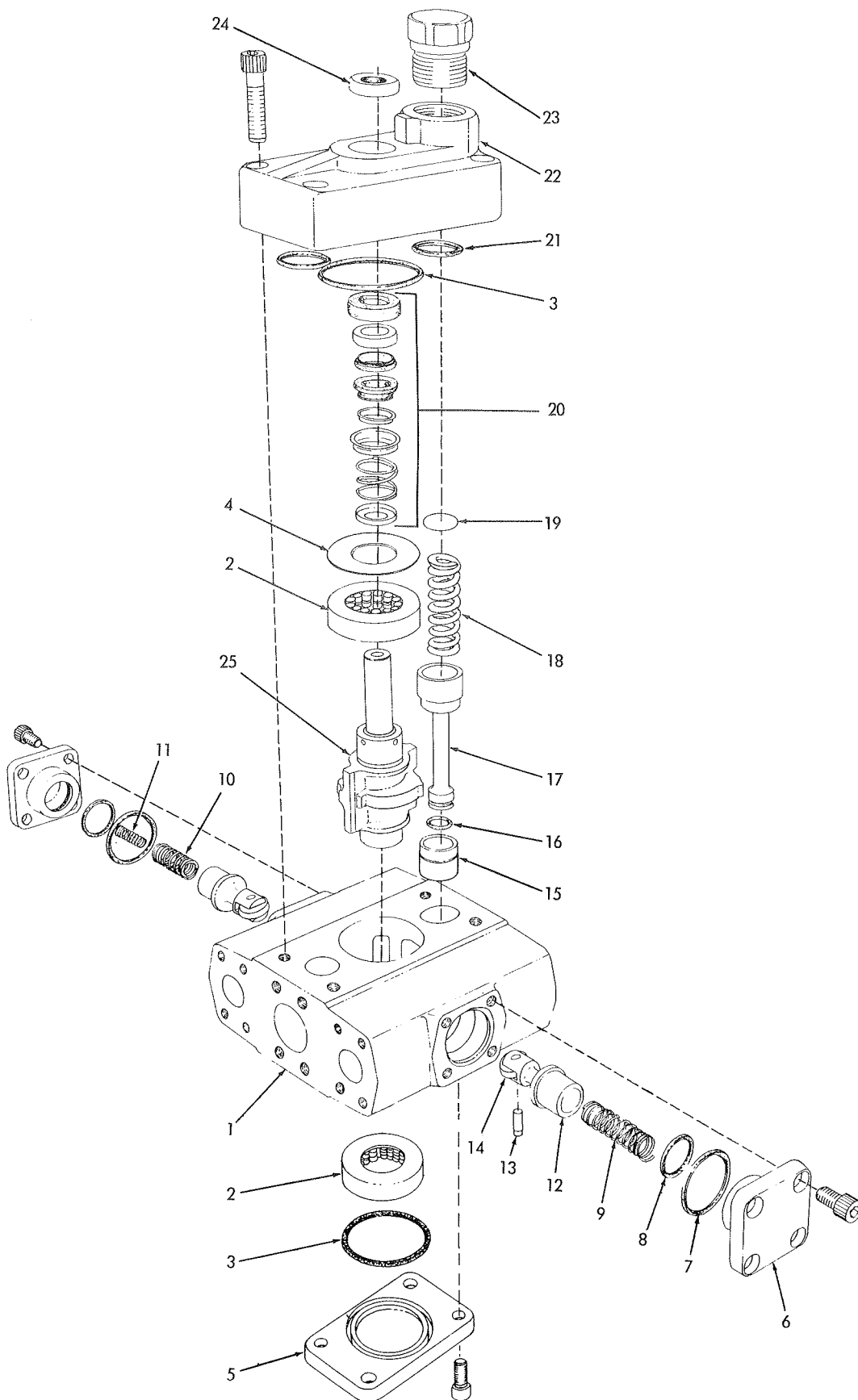


CONTROL UNIT ASSEMBLY 613400

T-14091

USAGE: See page 31

ITEM	PART NO.	QTY.	DESCRIPTION
1	091862	1	KNOB, operating lever
2	607400	1	LEVER, operating
3	074699	1	BEARING, needle
4	607403	1	RETAINER, operating lever boot
	912264	4	CAPSCREW, hex-socket-hd., 5/16"NC x 1"
5	607401	1	BOOT, operating lever
6	607405	1	HOUSING
7	607410	1	PISTON ASSEMBLY (1 piston and 2 matched cylinders. Serviced only as a unit)
8	607408	1	STEM ASSEMBLY, piston equalizing, rear (1 stem, 1 spring, 1 nut, 1 pin and 1 washer, Serviced only as a unit)
9	924922	2	O-RING, end cap
10	607409	2	GASKET, end cap
11	607407	2	CAP, end
	918310	8	CAPSCREW, hex-socket-hd., 5/16"NC x 1-1/4"
12	607402	1	PIN, operating lever
13	607404	1	STEM ASSEMBLY, piston equalizing, front (1 stem, 1 spring, 1 nut, 1 pin and 1 washer. Serviced only as a unit)



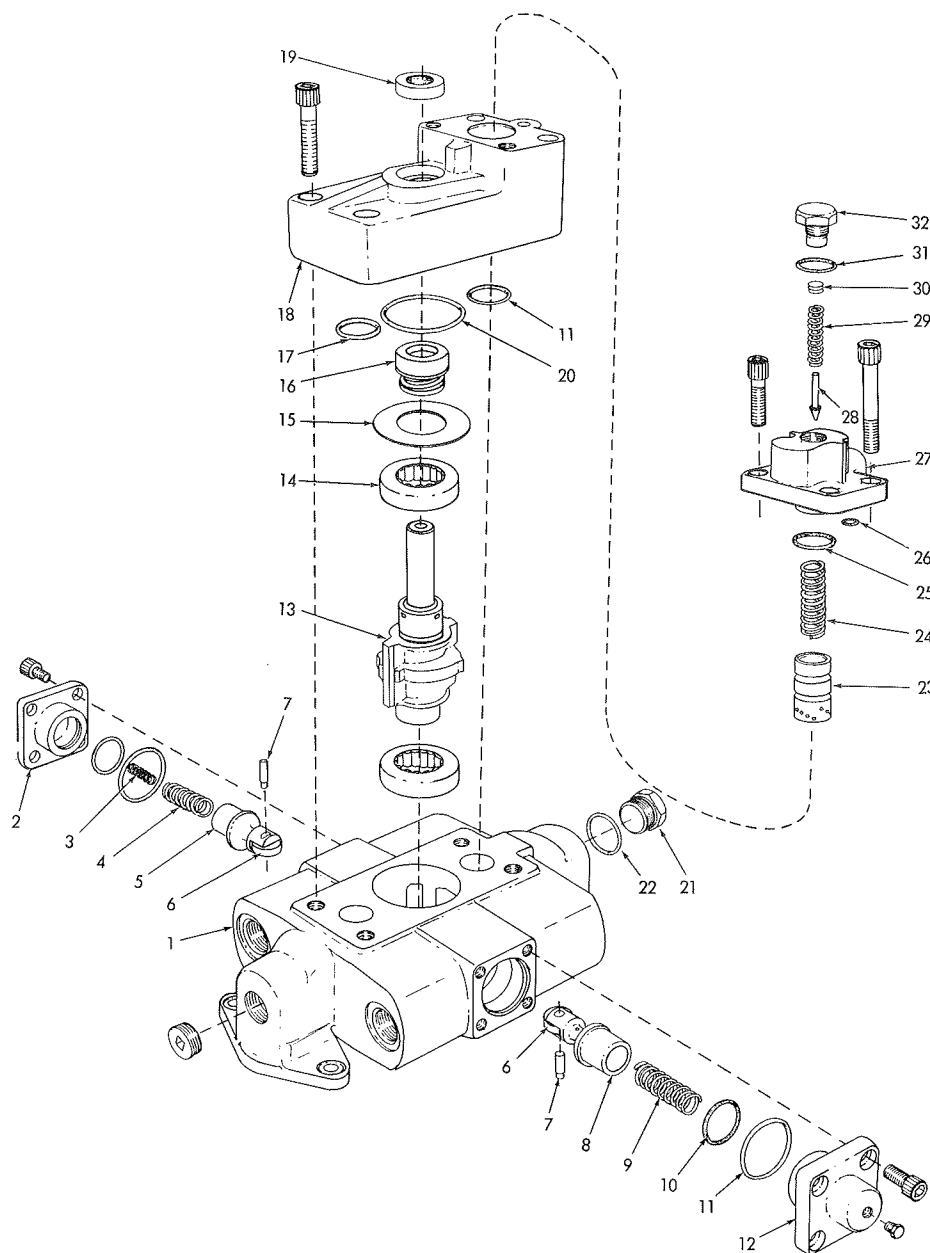
CONTROL VALVE ASSEMBLY 609553

T-14093

CONTROL VALVE ASSEMBLY 609553

USAGE: See pages 33, 37, 41 and 75.

ITEM	PART NO.	QTY.	DESCRIPTION
1	607440	1	HOUSING
2	617868	2	BEARING, rotor
3	924093	2	O-RING, top and bottom heads
4	618301	1	SHIM, rotor bearing (.001" thick)
	618302	1	SHIM, rotor bearing (.002" thick)
	618303	1	SHIM, rotor bearing (.003" thick)
} Use as required			
5	607442	1	HEAD, bottom (Used prior to valve #4070)
	619218	1	HEAD, bottom (Effective with valve #4070)
	918314	4	CAPSCREW, hex-socket-hd., 7/16"NC x 3/4"
6	607453	2	CAP, housing
	912266	8	CAPSCREW, hex-socket-hd., 3/8"NC x 3/4"
7	924112	2	O-RING, housing cap, outer
8	923648	2	O-RING, housing cap, inner
9	619261	1	SPRING, raise valve
10	619260	1	SPRING, drop valve, outer
11	619262	1	SPRING, drop valve, inner (Effective with valve #3202)
12	607429	2	VALVE
13	607432	2	PIN, valve roller
14	607430	2	ROLLER, valve
15	619204	1	SEAT, pressure relief valve
16	923376	1	O-RING, pressure relief valve
17	607451	1	VALVE, pressure relief
18	607423	1	SPRING, pressure relief valve
19	625668	4	SHIM, pressure relief valve spring (Use as required)
20	618321	1	SEAL ASSEMBLY, rotor stem (Serviced only as a unit)
21	924111	2	O-RING, top head
22	619216	1	HEAD, top (If for valves prior to #4070 also order item 2)
	918315	4	CAPSCREW, hex-socket-hd., 7/16"NC x 1-3/4"
23	625667	1	CAP, pressure relief valve
24	618662	1	SEAL, oil, rotor stem
25	609900	1	ROTOR



CONTROL VALVE ASSEMBLY 668258

T-72060

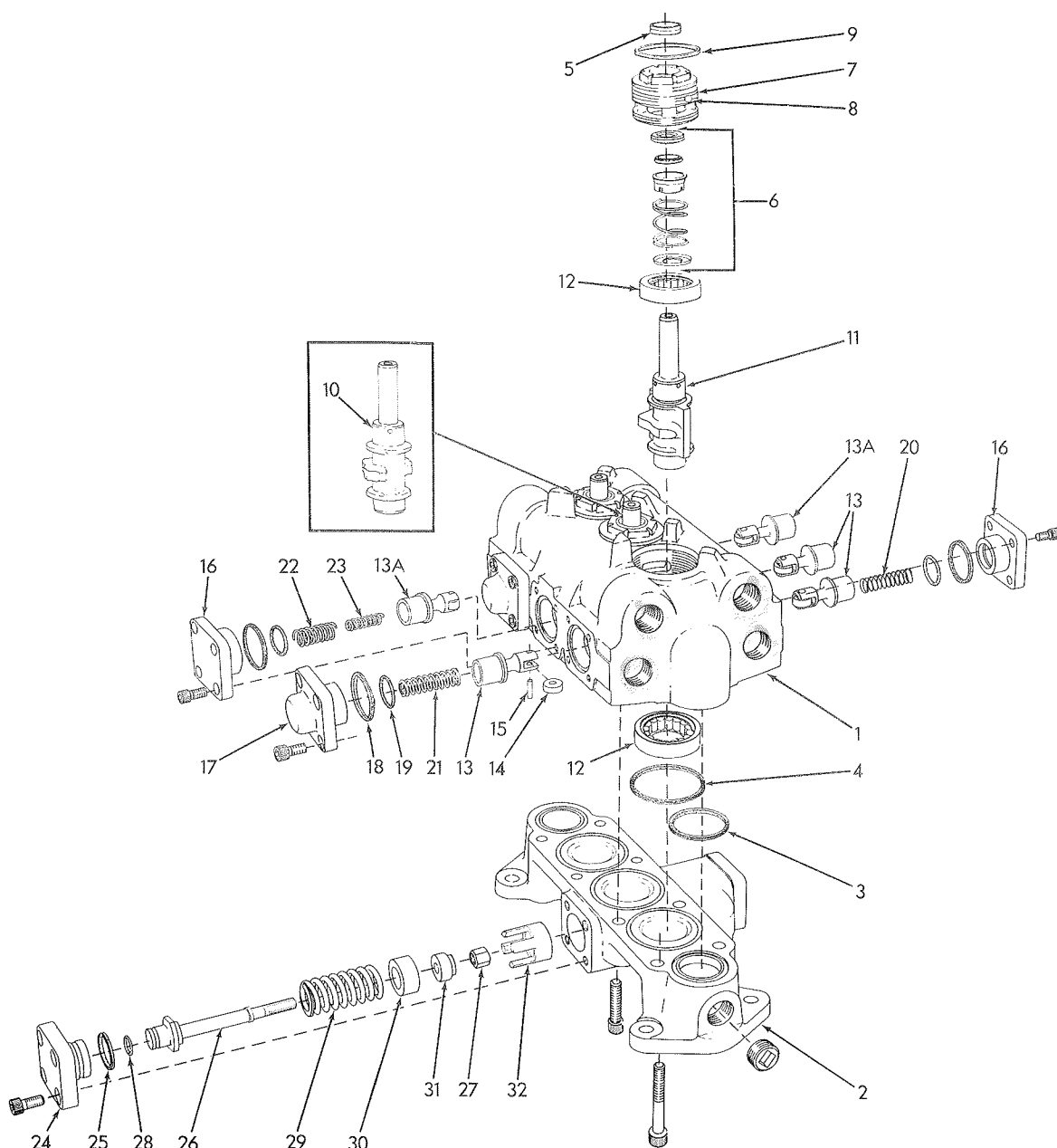
USAGE: See page 41

ITEM	PART NO.	QTY.	DESCRIPTION
1	668256	1	HOUSING
	901666	1	PLUG, pipe, ctsk-hd., 1"NPT
2	607453	1	CAP, drop valve
	912266	4	CAPSCREW, hex-socket-hd., 3/8"NC x 3/4"
3	619262	1	SPRING, drop valve, inner
4	619260	1	SPRING, drop valve, outer

(Continued)

CONTROL VALVE ASSEMBLY 668258 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
5	649296	1	VALVE, drop
6	607430	2	ROLLER, valve
7	607432	2	PIN, valve roller
8	637378	1	VALVE, raise
9	637380	1	SPRING, raise valve
10	923648	2	O-RING, housing cap
11	925648	3	O-RING, housing cap
12	667205	1	CAP, raise valve
	919134	1	PLUG, pipe, hex-hd., 1/8"NPT
	912266	4	CAPSCREW, hex-socket-hd., 3/8"NC x 3/4"
13	637377	1	ROTOR
14	617868	2	BEARING, rotor
15	{ 618301	1	SHIM, rotor bearing (.001" thick)
	618302	1	SHIM, rotor bearing (.002" thick)
	618303	1	SHIM, rotor bearing (.003" thick)
			} Use as required
16	618321	1	SEAL ASSY., rotor stem (Serviced only as a unit)
17	925646	1	O-RING, head
18	647851	1	HEAD
	918315	2	CAPSCREW, hex-socket-hd., 7/16"NC x 1-3/4"
19	618662	1	SEAL, oil, rotor stem
20	925495	1	O-RING, head
21	921216	1	PLUG, pressure check (Includes item 22)
22	921214	1	O-RING, pressure check plug
23	627957	1	VALVE, relief
24	627953	1	SPRING, relief valve
25	925645	1	O-RING, relief valve cap (large)
26	925643	1	O-RING, relief valve cap (small)
27	647932	1	CAP, relief valve
	918225	2	CAPSCREW, hex-socket-hd., 7/16"NC x 1-1/4"
	918789	2	CAPSCREW, hex-socket-hd., 7/16"NC x 4"
28	627951	1	VALVE, pilot relief
29	627952	1	SPRING, pilot relief valve
30	{ 627948	4	SHIM, pilot relief valve spring (.020". Use as required)
	627978	1	SHIM, pilot relief valve spring (.062". Use as required)
31	925644	1	O-RING, pilot relief valve cap
32	627958	1	CAP, pilot relief valve



CONTROL VALVE ASSEMBLY 626202

T-41815

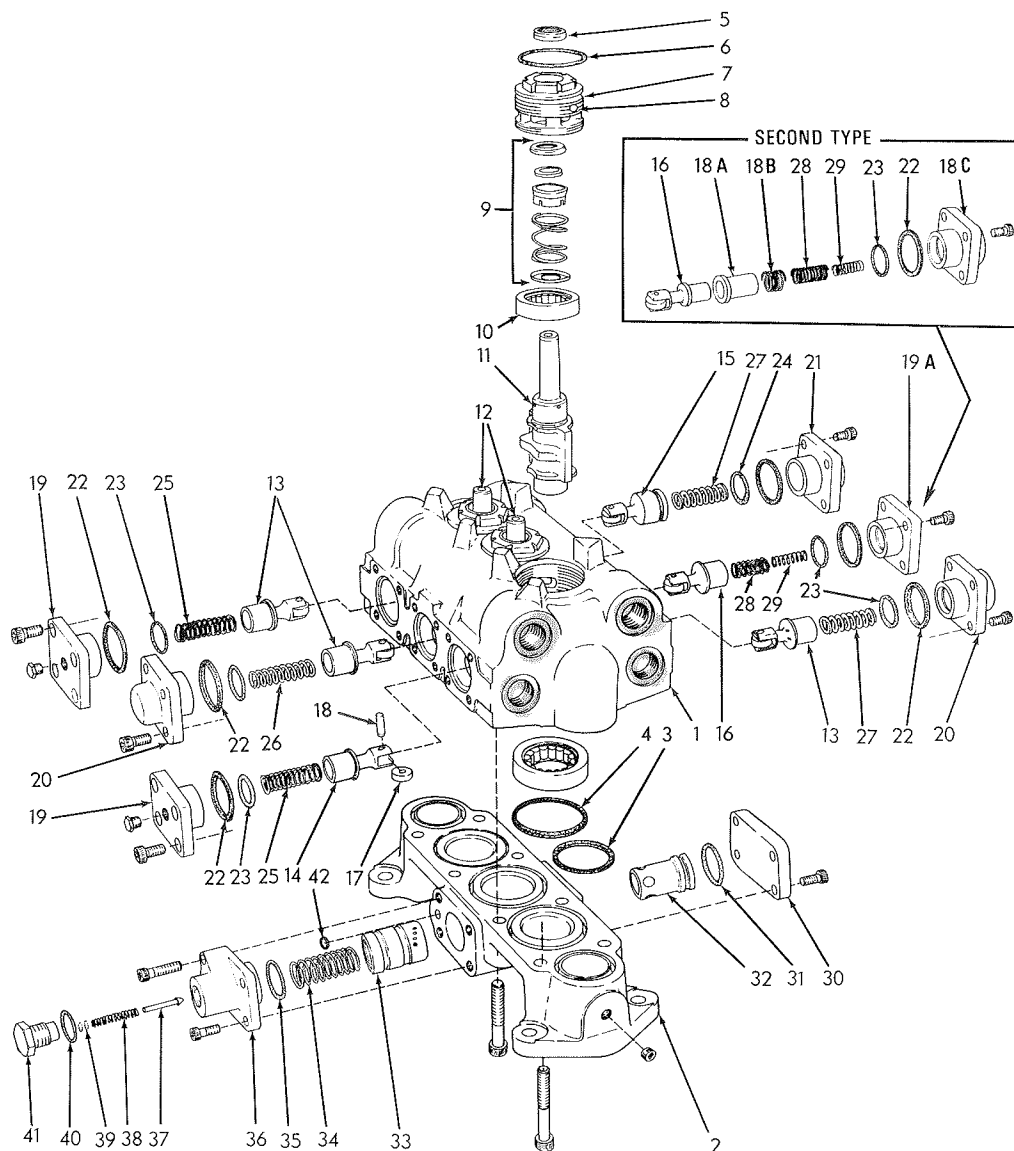
USAGE: See page 37 and 41

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	HOUSING, valve (Order HOUSING 649819, 2 CONNECTORS 921228, 2 CONNECTORS 922997 and 4 PLUGS 921216)
2	626208	1	ADAPTER, valve housing
	904224	2	PLUG, pipe, ctsk-hd., 3/4"NPT
	918315	4	CAPSCREW, hex-socket-hd., 7/16"NC x 1-3/4"
	917975	4	CAPSCREW, hex-socket-hd., 7/16"NC x 2-3/4"
3	924114	2	O-RING, housing adapter (2" O. D.)
4	924093	3	O-RING, housing adapter (2-3/4" O. D.)
5	618662	3	SEAL, rotor stem

(Continued)

CONTROL VALVE ASSEMBLY 626202 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
6	618321	3	SEAL ASSEMBLY, rotor stem (Serviced only as a unit)
7	626214	3	RETAINER ASSEMBLY, rotor stem seal (Includes item 8)
8	626215	3	PLUG, locking (Nylon)
9	924274	3	O-RING, seal retainer (2-5/8" O.D.)
10	609900	1	ROTOR, center
11	626207	2	ROTOR, left and right
12	617868	6	BEARING, rotor
13	607429	4	VALVE
13A	635330	2	VALVE (Has bleed hole)
14	607430	6	ROLLER, valve
15	607432	6	PIN, valve roller
16	607453 912266	4 16	CAP, housing CAPSCREW, hex-socket-hd., 3/8"NC x 3/4"
17	626206 912266	2 8	CAP, housing CAPSCREW, hex-socket-hd., 3/8"NC x 3/4"
18	924112	6	O-RING, housing cap (1-7/8" O.D.)
19	923648	6	O-RING, housing cap (1-5/16" O.D.)
20	619261	3	SPRING, raise valve
21	635331	2	SPRING, drop valve
22	619260	1	SPRING, drop valve, outer
23	619262	1	SPRING, drop valve, inner
24	626203 912266	2 8	CAP, adapter CAPSCREW, hex-socket-hd , 3/8"NC x 3/4"
25	924092	2	O-RING, adapter cap (1-3/8" O.D.)
26	626205	1	STEM, relief valve
27	045010	1	NUT, high, 7/16"NF
28	923376	1	O-RING, relief valve stem (3/4" O.D.)
29	626204	1	SPRING, relief valve
30	626211	1	SEAT, relief valve
31	626213	1	HEAD, relief valve stem
32	626210	1	GUIDE, relief valve stem head



CONTROL VALVE PARTS

T-71338

- * 649844 VALVE ASSEMBLY (Petroleum fluid)
- ** 657249 VALVE ASSEMBLY (Petroleum fluid)
- ** 668259 VALVE ASSEMBLY (Petroleum fluid)
- *** 650786 VALVE ASSEMBLY (Phosphate-ester fluid)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	-----	1	-	-	HOUSING (For 1"NPT connectors)(Early units. Order HOUSING 649819, 2 CONNECTORS 922997, 2 CONNECTORS 921228 and 4 PLUGS 921216)
	649819	1	1	1	HOUSING (For 1-5/16" straight thread connectors)(Late units)

(Continued)

CONTROL VALVE PARTS (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
2	668257	1	1	1	ADAPTER, valve housing
	907070	2	2	2	PLUG, pipe, ctsk-hd., 1/4"NPT (Early units)
	901666	-	2	2	PLUG, pipe, ctsk-hd., 1"NPT (Late units)
	917788	4	4	4	CAPSCREW, hex-socket-hd., 7/16"NC x 2-1/2"
24	929709	4	4	4	CAPSCREW, hex-socket-hd., 7/16"NC x 2-3/4"
3	925494	2	2	-	O-RING, housing adapter (2"O. D.)
	923621	-	-	2	O-RING, housing adapter (2"O. D.)
4	925495	3	3	-	O-RING, housing adapter (2-3/4"O. D.)
	923965	-	-	3	O-RING, housing adapter (2-3/4"O. D.)
5	618662	3	3	-	SEAL, rotor stem
	650794	-	-	3	SEAL, rotor stem
6	925649	3	3	-	O-RING, seal retainer
	924263	-	-	3	O-RING, seal retainer
7	626214	3	3	3	RETAINER ASSY., rotor stem seal (Includes item 8)
8	626215	3	3	3	PLUG, locking (nylon)
9	618321	3	3	-	SEAL ASSY., rotor stem (Serviced only as a unit)
	650795	-	-	3	SEAL ASSY., rotor stem (Serviced only as a unit)
10	617868	6	6	6	BEARING, rotor
11	637377	1	-	-	ROTOR, left section
	657247	-	1	1	ROTOR, left section
12	637377	2	-	-	ROTOR, center and right sections
	657244	-	2	2	ROTOR, center and right sections
13	637378	3	3	3	VALVE
14	649296	1	-	-	VALVE
	637378	-	1	1	VALVE
15	637378	1	-	-	VALVE
	657245	-	1	1	VALVE
16	649296	1	-	-	VALVE
	657246	-	1	1	VALVE (1-1/16" diam.)(Early units)
	666612	-	1	1	VALVE (3/4" diam.)(Late units)
17	607430	6	6	6	ROLLER, valve
18	607432	6	6	6	PIN, valve roller
18A	666610	-	1	1	SLEEVE, valve
18B	666609	-	1	1	SPRING, valve sleeve
18C	666611	-	1	1	CAP, housing
	912666	-	4	4	CAPSCREW, 3/8"NC x 3/4"

Late units

(Continued)

CONTROL VALVE PARTS (Continued)

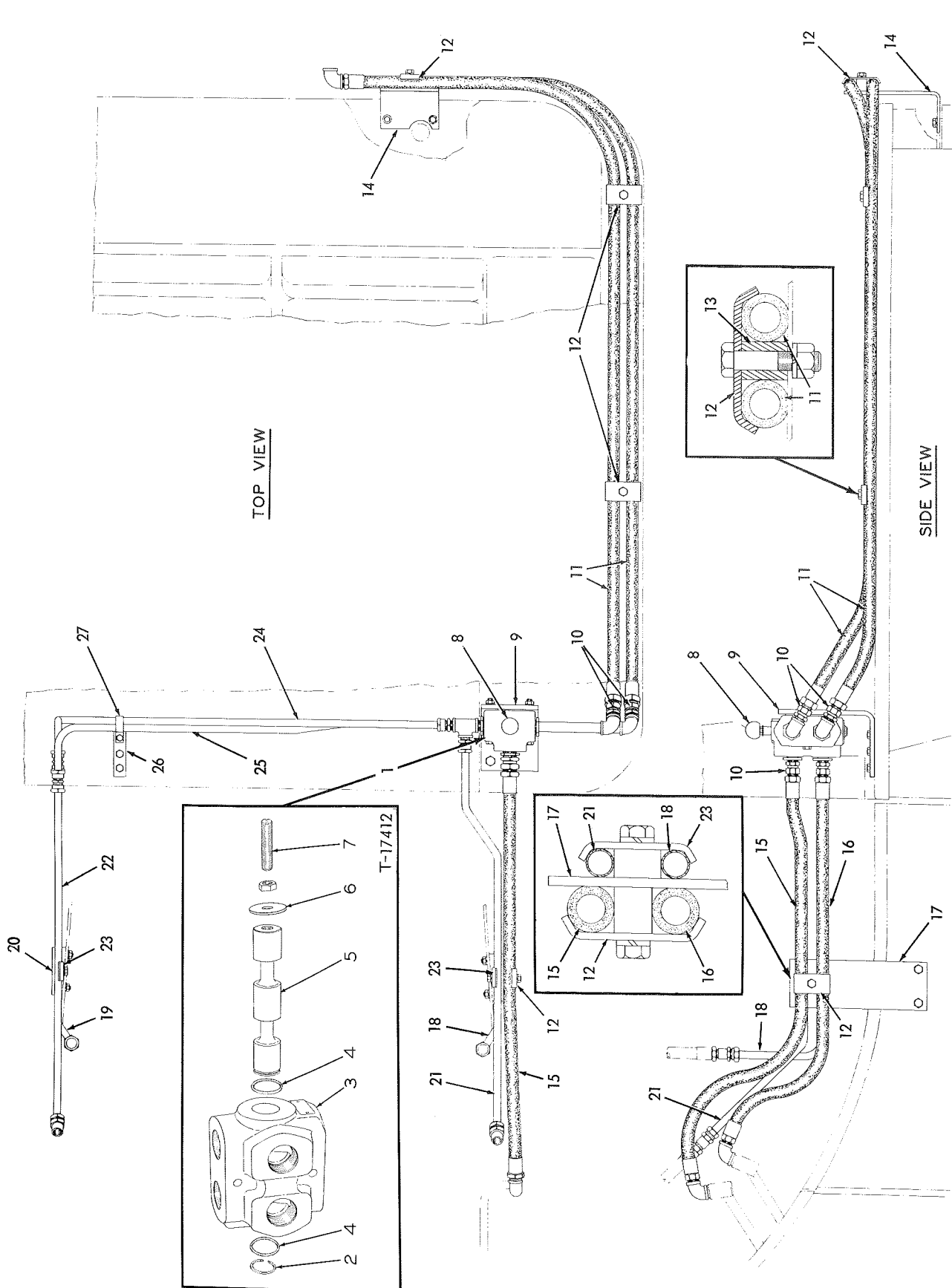
ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
19	667204	2	2	2	CAP, housing
	912266	8	8	8	CAPSCREW, hex-socket-hd., 3/8"NC x 3/4"
	919134	2	2	2	PLUG, pipe, hex-hd., 1/8"NPT
19A	607453	1	1	1	CAP, housing (Early units. See item 18C)
	912266	4	4	4	CAPSCREW, hex-socket-hd., 3/8"NC x 3/4"
20	626206	2	2	2	CAP, housing
	912266	8	8	8	CAPSCREW, hex-socket-hd., 3/8"NC x 3/4"
21	607453	1	-	-	CAP, housing
	657248	-	1	1	CAP, housing
22	925648	6	6	-	O-RING, housing caps (1-7/8" O.D.)
	924262	-	-	6	O-RING, housing caps (1-7/8"O.D.)
23	923648	5	5	-	O-RING, housing caps (1-5/16"O.D.)
	924260	-	-	5	O-RING, housing caps (1-5/16"O.D.)
24	923648	1	-	-	O-RING, housing cap (1-5/16"O.D.)
	923575	-	1	-	O-RING, housing cap (1-1/4"O.D.)
	923616	-	-	1	O-RING, housing cap (1-1/4"O.D.)
25	619261	2	2	2	SPRING, outer front valves
26	637380	1	1	1	SPRING, center front valve
27	635331	2	2	2	SPRING, outer rear valves
28	619260	1	1	1	SPRING, center rear valve (large)
29	619262	1	1	1	SPRING, center rear valve (small)
30	627946	1	1	1	COVER, adapter (rear)
	912266	4	4	4	CAPSCREW, hex-socket-hd., 3/8"NC x 3/4"
31	925647	1	1	-	O-RING, relief valve seat
	923619	-	-	1	O-RING, relief valve seat
32	627955	1	1	1	SEAT, relief valve
33	627957	1	1	1	VALVE, relief
34	627953	1	1	1	SPRING, relief valve
35	925645	1	1	-	O-RING, relief valve cap (large)
	923617	-	-	1	O-RING, relief valve cap (large)
36	627956	1	1	1	CAP, adapter (front)
	912266	2	2	2	CAPSCREW, hex-socket-hd., 3/8"NC x 3/4"
	912268	2	2	2	CAPSCREW, hex-socket-hd., 3/8"NC x 1-1/2"
37	627951	1	1	1	VALVE, pilot relief
38	627952	1	1	1	SPRING, pilot relief valve
39	627948	4	4	4	SHIM, pilot relief valve spring (.020". Use as req'd)
	627978	1	1	1	SHIM, pilot relief valve spring (.062". Use as req'd)
40	925644	1	1	-	O-RING, relief valve cap
	923616	-	-	1	O-RING, relief valve cap
41	627958	1	1	1	CAP, relief valve
42	925643	1	1	-	O-RING, relief valve cap (small)
	923610	-	-	1	O-RING, relief valve cap (small)

DIVER TER VALVE AND PIPING

USAGE: Tractors equipped with dozers using hydraulic system shown on page 6. Provides rear hydraulic outlet for operating auxiliary equipment with single control valve.

ITEM	PART NO.	QTY.	DESCRIPTION
1	613632	1	VALVE ASSEMBLY (Consists of items 2 thru 7)
	918553	2	CAPSCREW, 7/16"NF x 4-1/2"
	904207	2	LOCKWASHER, 7/16"
	911042	2	NUT, 7/16"NF
2	3007239	1	RING, snap, plunger retaining
3	615627	1	HOUSING, valve
4	619821	2	RING, sealing, valve plunger
5	615628	1	PLUNGER, valve
6	914906	1	WASHER, plunger retaining
7	615630	1	SCREW, valve plunger
	913830	1	NUT, jam, 1/2"NF
8	090020	1	KNOB, valve operating
9	613645	1	BRACKET, valve mounting
	910897	3	CAPSCREW, 1/2"NF x 1-1/4"
	904208	3	LOCKWASHER, 1/2"
	911043	3	NUT, 1/2"NF
10	032032	4	UNION, adapting, hose
	901844	4	BUSHING, pipe reducing, 1-1/4"NPT to 3/4"NPT
	912085	1	NIPPLE, pipe, 3/4"NPT x 7"
	918708	1	NIPPLE, pipe, 3/4"NPT x 9-1/2"
	901680	2	ELBOW, pipe, 90°, 3/4"NPT
11	614530	2	HOSE, rear (See HOSE PARTS)
	901680	2	ELBOW, pipe, 90°, 3/4"NPT
12	614514	4	CLAMP, hose
	035068	2	CAPSCREW, 1/2"NF x 2-1/4"
	910897	2	CAPSCREW, 1/2"NF x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
13	614516	2	BLOCK, clamp spacing
14	614518	1	BRACKET, rear hose supporting
	911978	2	CAPSCREW, 1/2"NF x 1-1/2"
	904208	2	LOCKWASHER, 1/2"
15	614528	1	HOSE, front, upper left (See HOSE PARTS)
	901680	1	ELBOW, pipe, 90°, 3/4"NPT
	901511	1	NIPPLE, pipe, 3/4"NPT x 1-3/8"
16	612975	1	HOSE, front, lower left (See HOSE PARTS)
	901680	1	ELBOW, pipe, 90°, 3/4"NPT
	901511	1	NIPPLE, pipe, 3/4"NPT x 1-3/8"

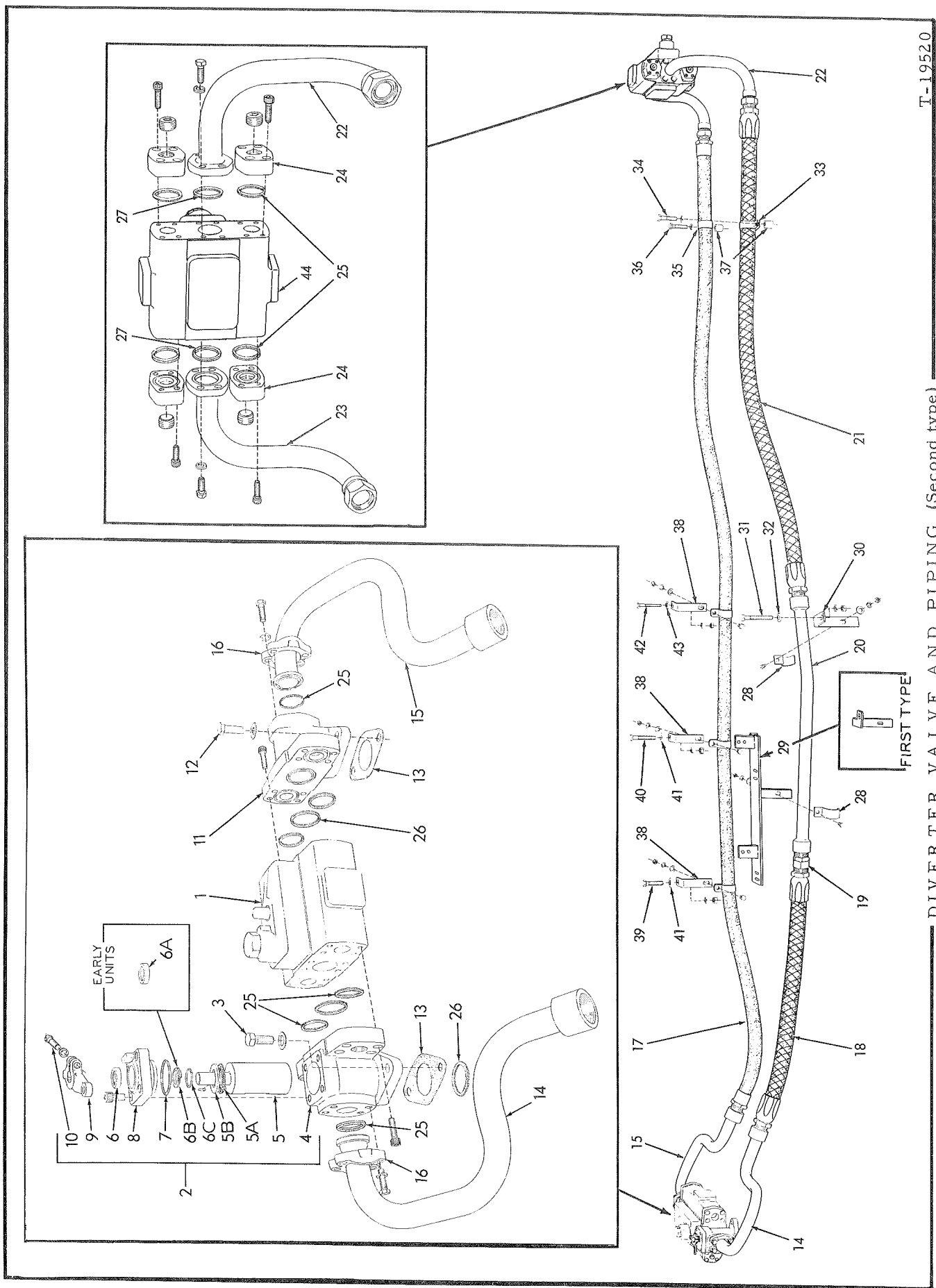
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T-17467
 DIVERTER VALVE AND PIPING (First type)
 T-17412

DIVERTER VALVE AND PIPING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
17	614533	1	BRACKET, tube supporting, left side
	910319	2	CAPSCREW, 1/2"NF x 1"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
18	614521	1	TUBE, lower left
	918705	1	CONNECTOR, Ermeto, 3/4" tube, 3/4"NPT male (Includes nut and sleeve)
	918707	1	CONNECTOR, Ermeto, 3/4" tube, 3/4"NPT female (Includes nut and sleeve)
19	614523	1	TUBE, lower right
	918707	1	CONNECTOR, Ermeto, 3/4" tube, 3/4"NPT male (Includes nut and sleeve)
20	614534	1	BRACKET, tube supporting, right side
	910319	2	CAPSCREW, 1/2"NF x 1"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
21	614522	1	TUBE, upper left
	918705	1	CONNECTOR, Ermeto, 3/4" tube, 3/4"NPT male (Includes nut and sleeve)
	918707	1	CONNECTOR, Ermeto, 3/4" tube, 3/4"NPT female (Includes nut and sleeve)
22	614524	1	TUBE, upper right
	918707	1	CONNECTOR, Ermeto, 3/4" tube, 3/4"NPT female (Includes nut and sleeve)
23	614515	2	CLAMP, tube
	910319	2	CAPSCREW, 1/2"NF x 1"
	904208	2	LOCKWASHER, 1/2"
24	614519	1	TUBE, upper rear
	901844	1	BUSHING, pipe reducing, 1-1/4"NPT to 3/4"NPT
	901511	1	NIPPLE, pipe, 3/4"NPT x 1-3/8"
	918705	1	CONNECTOR, Ermeto, 3/4" tube, 3/4"NPT male (Includes nut and sleeve)
	918706	1	UNION, Ermeto, 3/4" tube (Includes nuts and sleeves)
25	614520	1	TUBE, lower rear
	901844	1	BUSHING, pipe reducing, 1-1/4"NPT to 3/4"NPT
	901511	1	NIPPLE, pipe, 3/4"NPT x 1-3/8"
	901706	1	TEE, pipe, 3/4"NPT
	918705	1	CONNECTOR, Ermeto, 3/4" tube, 3/4"NPT male (Includes nut and sleeve)
	918706	1	UNION, Ermeto, 3/4" tube (Includes nuts and sleeves)
26	614535	1	PLATE, clip supporting
	910319	2	CAPSCREW, 1/2"NF x 1"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
27	065394	1	CLIP, tube supporting (double, closed type, for two 3/4" tubes, 13/32" bolt-hole)
	912180	1	CAPSCREW, 3/8"NF x 7/8"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
28	912726	2	PLUG, pipe, 3/4"NPT (For plugging valve to cylinder pipes on right hand side)(Not illustrated)



T-19520

DIVERTER VALVE AND PIPING (Second type)

DIVERTER VALVE AND PIPING

USAGE: Tractors equipped with dozers using hydraulic systems shown on pages 9 and 13.
Provides rear hydraulic outlet for operating auxiliary equipment thru separate rear-mounted control valve. See page 75

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	VALVE ASSEMBLY, front (See VALVE AND CONTROLS)
2	618700	1	VALVE ASSEMBLY, diverting (Consists of items 4 thru 10)(First type. For units with flexible cable-type valve control)
	619819	1	VALVE ASSEMBLY, diverting (Consists of items 4 thru 10)(Second type. For units with rod-type valve control)
3	917733	8	CAPSCREW, hex-socket-hd., 3/8"NC x 1-1/4"
	614478	2	CAPSCREW, 1/2"NF x 1-3/8"
	618724	2	WASHER, copper
4	617117	1	MANIFOLD, left side (Replaces standard manifold)
5	-----	1	ROTOR (Used prior to October 1958. Order ROTOR 618770 with items 5A, 5B, 6B and 8)
	618770	1	ROTOR (Effective October 1958)
5A	618767	1	BEARING, thrust, valve rotor (Effective October 1958)
5B	618768	1	WASHER, thrust, valve rotor (Effective October 1958)
6	618662	1	SEAL, rotor (upper)
6A	618720	1	RETAINER, valve rotor O-Ring (Used prior to October 1958)
6B	618769	1	RING, back-up, valve rotor O-Ring (Effective October 1958)
6C	619824	1	RING, sealing, valve rotor (1" O. D.)
7	619798	1	RING, sealing, rotor cap (2" O. D.)
8	618771	1	CAP, rotor (If for dozers built prior to October 1958 also order 1 BEARING 618767, 1 WASHER 618768, 1 RING 618769 and 1 ROTOR 618770.
	918314	4	CAPSCREW, hex-socket-hd., 7/16"NC x 3/4"
9	618054	1	LEVER, rotor (First type. In Valve Assembly 618700 only)
	619811	1	LEVER, rotor (Second type. In Valve Assembly 619819 only)
10	905119	1	KEY, #3 woodruff, 1/8" x 1/2"
	043646	1	CAPSCREW, 5/16"NF x 1-1/4"
	904205	1	LOCKWASHER, 5/16"
11	617116	1	MANIFOLD, right side (Replaces standard manifold)
12	917733	8	CAPSCREW, hex-socket-hd., 3/8"NC x 1-1/4"
	614478	2	CAPSCREW, 1/2"NF x 1-3/8"
	618724	2	WASHER, copper
13	613128	2	GASKET, manifold
14	618080	1	TUBE, front, left side (First type. For units with flexible cable-type valve control)
	618078	1	TUBE, front, left side (Second type. For units with rod-type valve control)

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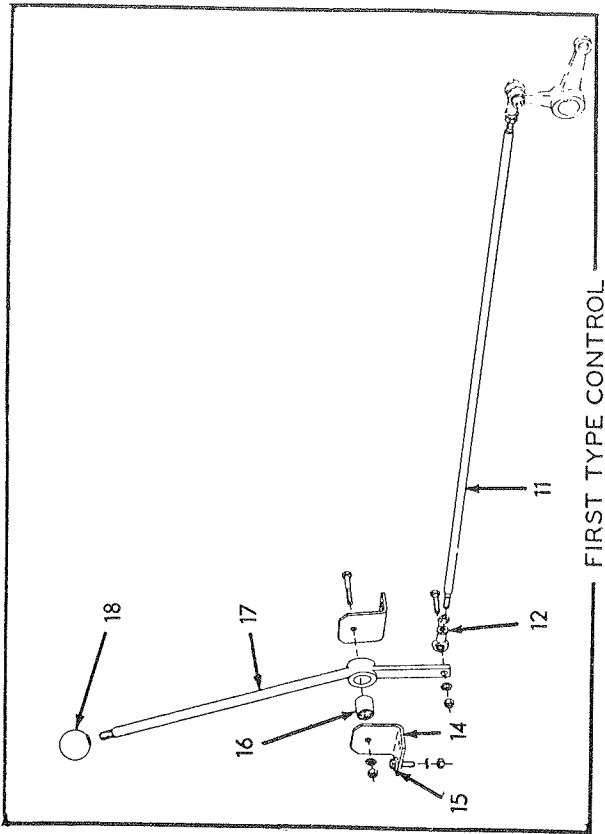
DIVERTER VALVE AND PIPING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
15	618078	1	TUBE, front, right side
16	921117	4	FLANGE, front tube attaching (half only)
	904706	8	CAPSCREW, 7/16"NC x 1-1/4"
	904207	8	LOCKWASHER, 7/16"
17	618074	1	HOSE, right side (See HOSE PARTS)
18	617177	1	HOSE, front, left side (See HOSE PARTS)
19	606536	1	UNION, adapting, hose connecting
20	618100	1	TUBE, intermediate, left side
21	618094	1	HOSE, rear, left side (See HOSE PARTS)
22	618105	1	TUBE, rear, left side (Units without power brakes)
	625907	1	TUBE, rear, left side (Units with power brakes)
	913877	4	CAPSCREW, 7/16"NC x 1-1/8"
	904207	4	LOCKWASHER, 7/16"
23	618106	1	TUBE, rear, right side (Units without power brakes)
	625908	1	TUBE, rear, right side (Units with power brakes)
	913877	4	CAPSCREW, 7/16"NC x 1-1/8"
	904207	4	LOCKWASHER, 7/16"
24	618114	4	FITTING, valve
	917733	16	CAPSCREW, hex-socket-hd., 3/8"NC x 1-1/4"
	904224	4	PLUG, pipe, ctsk-hd., 3/4"NPT
25	619799	10	RING, sealing (1-3/4" O. D.)
26	619798	3	RING, sealing (2" O. D.)
27	619801	2	RING, sealing (1-7/8" O. D.)
28	618087	2	CLAMP, supporting, intermediate tube
	912180	2	CAPSCREW, 3/8"NF x 7/8"
	900817	2	WASHER, plain, U.S. std., 3/8"
	904206	2	LOCKWASHER, 3/8"
	911041	2	NUT, 3/8"NF
29	618101	1	ANGLE, tube clamp, front (First type. For units with flexible cable-type valve control)
	070161	1	CAPSCREW, 5/8"NF x 2-3/4"
	064810	1	WASHER, plain
	904209	1	LOCKWASHER, 5/8"
	911044	1	NUT, 5/8"NF
	619777	1	BRACKET, tube supporting (Second type. For units with rod-type valve control)

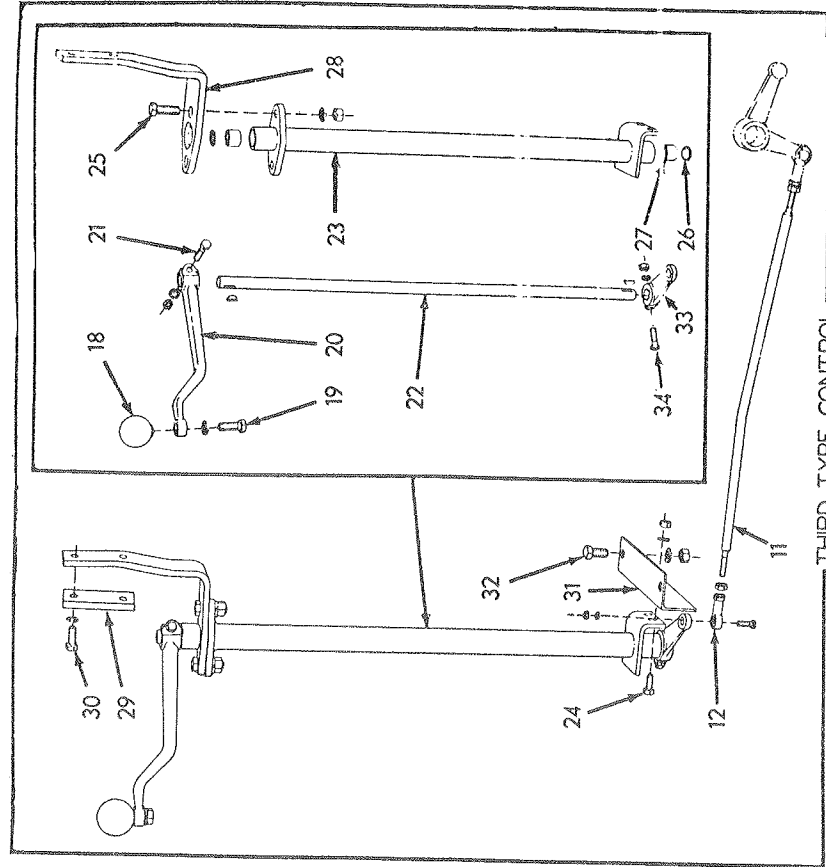
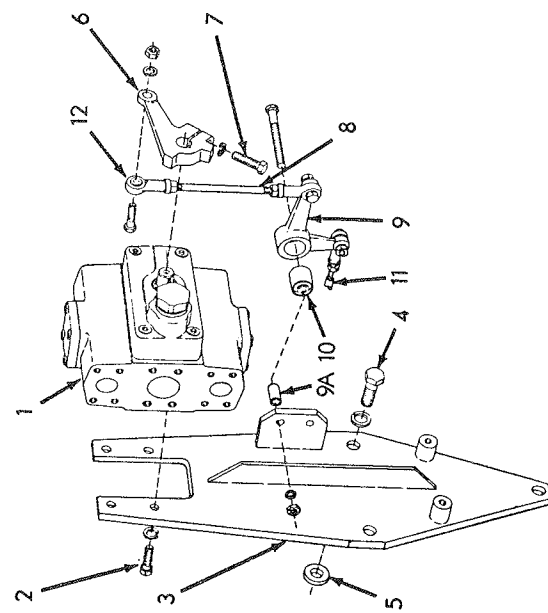
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DIVERTER VALVE AND PIPING (Continued)

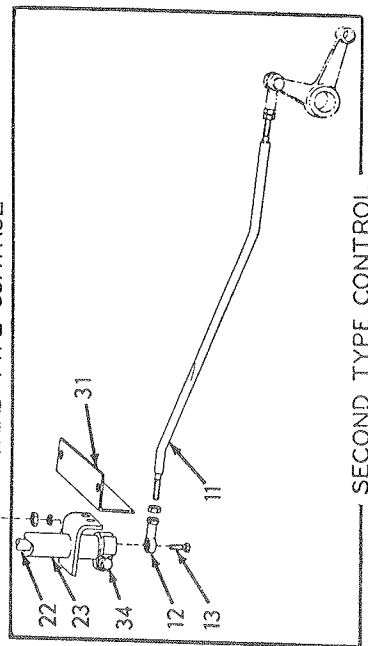
ITEM	PART NO.	QTY.	DESCRIPTION
30	618103	1	ANGLE, tube clamp, rear
31	065588	1	CAPSCREW, 1/2"NF x 3-1/2"
32	064531	1	WASHER, plain
	904208	1	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2"NF
33	618025	1	CLIP, left rear hose (closed type, 2" diam., 9/16" bolt-hole)
34	{ 035068	1	CAPSCREW, 1/2"NF x 2-1/4" (Units without power brakes)
	042430	1	CAPSCREW, 1/2"NF x 3-1/4" (Units with power brakes)
	904208	1	LOCKWASHER, 1/2"
35	606315	4	CLIP, right hose (closed type, 1-3/4" diam., 9/16" bolt-hole)
36	{ 035068	1	CAPSCREW, 1/2"NF x 2-1/4" (Units without power brakes)
	042430	1	CAPSCREW, 1/2"NF x 3-1/4" (Units with power brakes)
	910319	3	CAPSCREW, 1/2"NF x 1"
	910244	3	WASHER, plain, SAE std., 1/2"
	904208	4	LOCKWASHER, 1/2"
	911043	3	NUT, 1/2"NF
37	065785	2	BOSS, clip spacing (Units without power brakes)
38	618093	3	ANGLE, clip attaching
39	070161	1	CAPSCREW, 5/8"NF x 2-3/4"
40	035541	1	CAPSCREW, 5/8"NF x 3-3/4"
41	064810	2	WASHER, plain
	904209	2	LOCKWASHER, 5/8"
	911044	2	NUT, 5/8"NF
42	065588	1	CAPSCREW, 1/2"NF x 3-1/2"
43	064531	1	WASHER, plain
	904208	1	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2"NF
44	-----	-	VALVE ASSEMBLY, rear (See REAR CONTROL VALVE)



FIRST TYPE CONTROL



THIRD TYPE CONTROL



SECOND TYPE CONTROL

REAR CONTROL VALVE

USAGE: Tractors equipped with dozer hydraulics. Provides rear hydraulic outlet for operating auxiliary equipment when used with DIVERter VALVE AND PIPING shown on page 71.

* Used prior to May 1959

** Used May 1959 thru April 1961

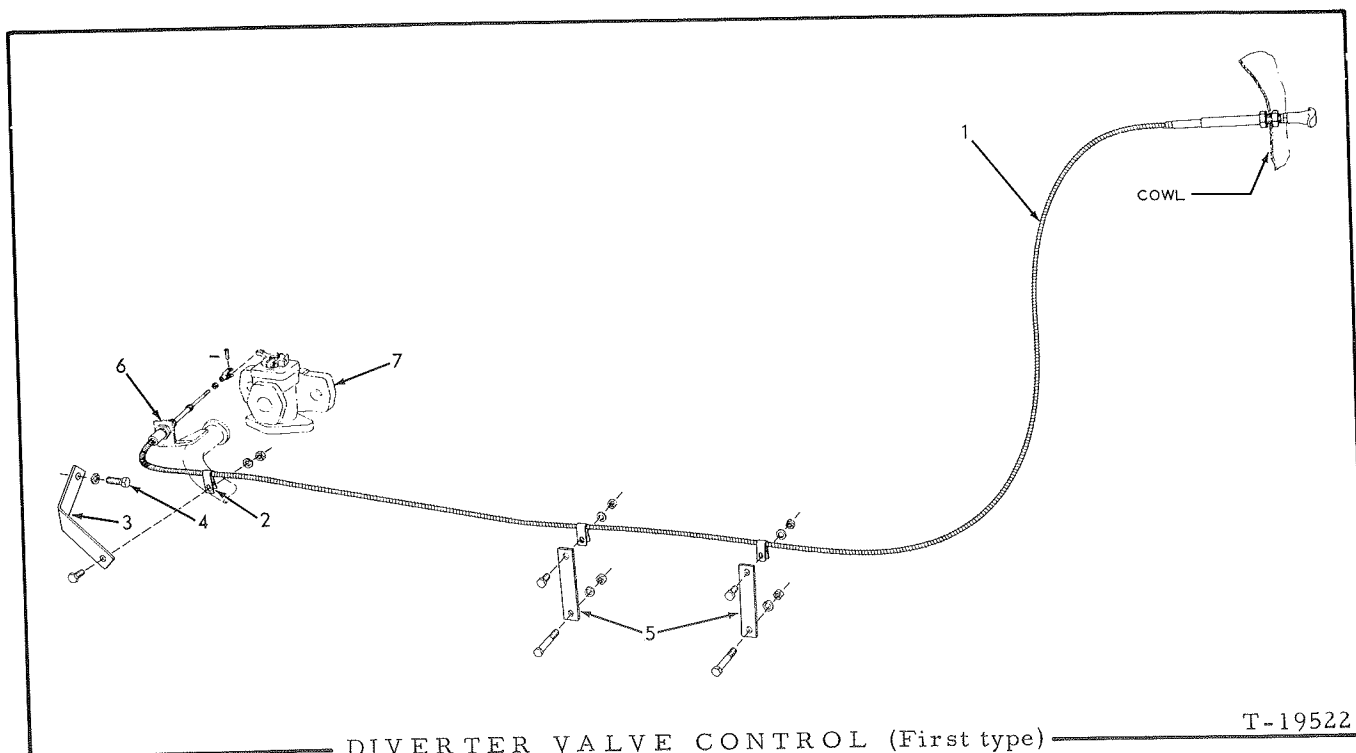
*** Effective May 1961 (Tractors with power brakes)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	609553	1	1	1	VALVE ASSEMBLY (See page 59 for parts)
2	041916	4	4	4	CAPSCREW, 7/16"NC x 2" (Replaces CAPSCREW 918314)
	904207	4	4	4	LOCKWASHER, 7/16"
3	618352	1	1	1	BRACKET, valve mounting
4	023755	3	3	3	CAPSCREW, 5/8"NC x 2-1/4"
	904209	3	3	3	LOCKWASHER, 5/8"
5	064810	3	3	3	WASHER, spacing, valve mounting bracket
6	618017	1	1	1	LEVER, valve
	905119	1	1	1	KEY, #3 woodruff, 1/8" x 1/2"
7	036039	1	1	1	CAPSCREW, 3/8"NF x 1-3/8"
	904206	1	1	1	LOCKWASHER, 3/8"
8	618115	1	-	1	ROD, control (vertical)
	611967	-	1	-	ROD, control (vertical)
	911041	2	2	2	NUT, 3/8"NF
9	618111	1	1	1	BELLCRANK, control rod
9A	619331	-	-	1	BLOCK, bellcrank spacing
10	606392	1	1	1	BEARING, control rod bellcrank
	913619	1	1	-	CAPSCREW, 3/8"NF x 2-1/4"
	916389	-	-	1	CAPSCREW, 3/8"NF x 3-1/4"
	904206	1	1	1	LOCKWASHER, 3/8"
	911041	1	1	1	NUT, 3/8"NF
11	618028	1	-	-	ROD, control (horizontal)
	618901	-	1	-	ROD, control (horizontal)
	625904	-	-	1	ROD, control (horizontal)
	911041	2	2	2	NUT, 3/8"NF
12	617932	4	4	4	END, control rod
	917125	4	3	4	CAPSCREW, 3/8"NF x 1-3/8"
13	203188	-	1	-	CAPSCREW, 3/8"NF x 1-1/2"
	904206	4	4	4	LOCKWASHER, 3/8"
	911041	4	4	4	NUT, 3/8"NF
14	618013	2	-	-	ANGLE, operating lever mounting
	912185	4	-	-	CAPSCREW, 3/8"NF x 1-1/4"
15	044973	4	-	-	WASHER, plain
	904206	4	-	-	LOCKWASHER, 3/8"
	911041	4	-	-	NUT, 3/8"NF

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REAR CONTROL VALVE (Continued)

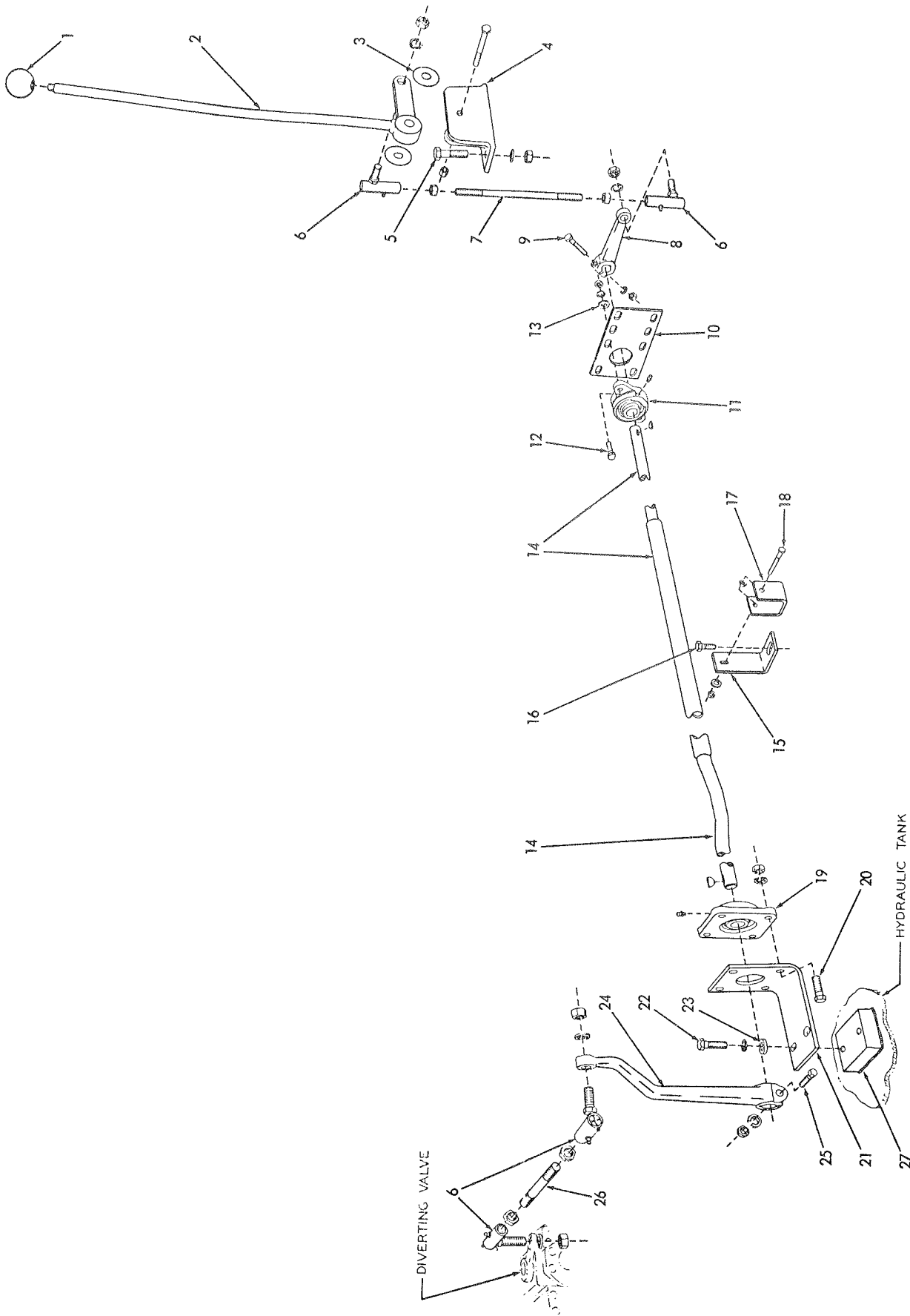
ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
16	606392	1	-	-	BEARING, operating lever
	913619	1	-	-	CAPSCREW, 3/8"NF x 2-1/4"
	904206	1	-	-	LOCKWASHER, 3/8"
	911041	1	-	-	NUT, 3/8"NF
17	618032	1	-	-	LEVER, operating
18	091862	1	1	1	KNOB, operating lever
19	035061	-	1	1	CAPSCREW, 1/2"NC x 1-1/4"
	904208	-	1	1	LOCKWASHER, 1/2"
20	611904	-	1	1	LEVER, operating
21	035336	-	1	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	-	1	1	LOCKWASHER, 3/8"
	911041	-	1	1	NUT, 3/8"NF
22	611905	-	1	-	SHAFT, operating lever
	625544	-	-	1	SHAFT, operating lever
	905122	-	2	2	KEY, #7 woodruff, 1/8" x 3/4"
23	611909	-	1	1	TUBE, operating lever shaft
24	035167	-	2	2	CAPSCREW, 3/8"NF x 7/8"
	904206	-	2	2	LOCKWASHER, 3/8"
	911041	-	2	2	NUT, 3/8"NF
25	614478	-	2	2	CAPSCREW, 1/2"NF x 1-3/8"
	904208	-	2	2	LOCKWASHER, 1/2"
	911043	-	2	2	NUT, 1/2"NF
26	052662	-	2	2	SEAL, dust
27	208253	-	2	2	BEARING, needle
28	618900	-	1	1	BRACKET, shaft tube supporting
29	618889	-	1	1	PLATE, bracket clamping
30	036034	-	2	2	CAPSCREW, 3/8"NF x 1"
	904206	-	2	2	LOCKWASHER, 3/8"
31	625716	-	1	1	ANGLE, shaft tube supporting
32	070467	-	2	2	CAPSCREW, 1/2"NF x 1"
	904208	-	2	2	LOCKWASHER, 1/2"
	911043	-	2	2	NUT, 1/2"NF
33	618978	-	1	-	LEVER, lower
	630837	-	-	1	LEVER, lower
34	013058	-	1	-	CAPSCREW, 3/8"NC x 1-1/4"
	914492	-	-	1	CAPSCREW, 3/8"NF x 1-7/8"
	904206	-	1	1	LOCKWASHER, 3/8"
	911041	-	-	1	NUT, 3/8"NF



USAGE: For controlling Diverting Valve shown on page 71. Used prior to June 1961.

ITEM	PART NO.	QTY.	DESCRIPTION
1	618043	1	CONTROL ASSEMBLY, push-pull (Serviced only as a unit)
	911040	1	NUT, 1/4"NF
	917662	1	YOKE, rod end, adjustable, 1/4"NF
	917644	1	PIN, yoke, 1/4" diam.
	900970	1	PIN, cotter, 1/16" x 1/2"
2	040796	3	CLIP, supporting, control cable (closed type, 3/8" diam., 13/32" bolt-hole)
	910922	3	CAPSCREW, 3/8"NF x 3/4"
	904206	3	LOCKWASHER, 3/8"
	911041	3	NUT, 3/8"NF
3	618104	1	ANGLE, clip supporting
4	036034	1	CAPSCREW, 3/8"NF x 1"
	904206	1	LOCKWASHER, 3/8"
5	618102	2	PLATE, clip supporting
	914339	2	CAPSCREW, 3/8"NF x 2-3/4"
	904206	2	LOCKWASHER, 3/8"
	911041	2	NUT, 3/8"NF
6	-----	-	TUBE, front, left side
7	-----	-	VALVE ASSEMBLY, diverting

See DIVERTER VALVE
AND PIPING



T-33416

DIVER TER VALVE CONTROL (Second type)

DIVERTER VALVE CONTROL

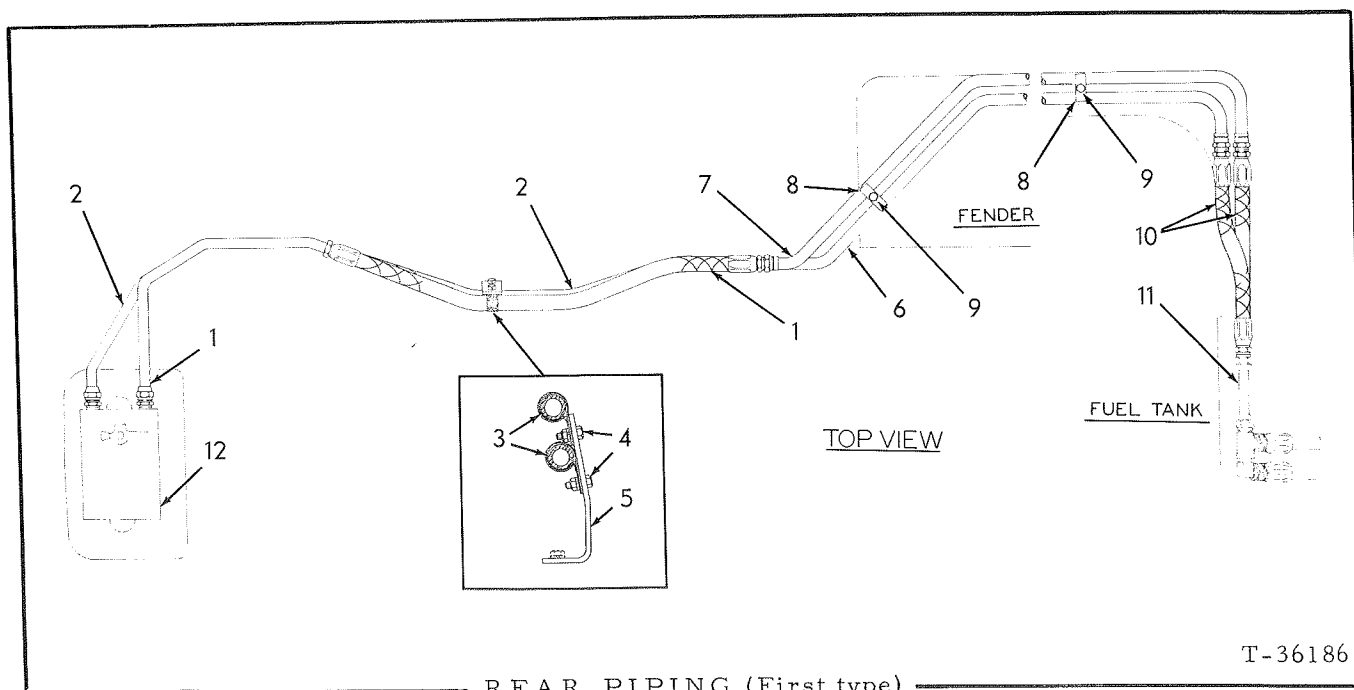
USAGE: For controlling Diverter Valve shown on page 71. Effective June 1961.

ITEM	PART NO.	QTY.	DESCRIPTION
1	091862	1	KNOB, operating lever
2	619946	1	LEVER, operating
	914339	1	CAPSCREW, 3/8"NF x 2-3/4"
	913528	1	NUT, elastic stop, 3/8"NF
3	619820	2	WASHER, operating lever
4	626499	1	BRACKET, operating lever
5	035018	1	CAPSCREW, 1/2"NF x 1-1/2"
	904208	1	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2"NF
6	618281	4	JOINT, ball and socket (Includes FITTING indented below)
	912808	4	FITTING, lubricating, straight, 1/4"NF
	904208	4	LOCKWASHER, 1/2"
	911043	4	NUT, 1/2"NF
7	619947	1	ROD, connecting, rear
	911043	2	NUT, 1/2"NF
8	611903	1	LEVER, control shaft, rear
9	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
10	611961	1	PLATE, control shaft, rear (Requires welding to install)
11	617132	1	BEARING ASSEMBLY, control shaft, rear (Includes FITTING indented below)
	912808	1	FITTING, lubricating, straight, 1/4"NF
12	036039	2	CAPSCREW, 3/8"NF x 1-3/8"
13	044973	2	WASHER, plain
	904206	2	LOCKWASHER, 3/8"
	911041	2	NUT, 3/8"NF
14	627170	1	SHAFT, control
	905122	2	KEY, #7 woodruff, 1/8" x 3/4"
15	611956	1	ANGLE, shaft supporting
16	035229	1	CAPSCREW, 5/8"NF x 2"
17	611957	1	BRACKET, shaft supporting
18	611975	1	CAPSCREW, 1/4"NC x 2-1/2"
	911114	1	WASHER, plain, SAE std., 1/4"
	911325	2	NUT, jam, 1/4"NC
19	611901	1	BEARING ASSEMBLY, control shaft, front (Includes FITTING indented below)
	912808	1	FITTING, lubricating, straight, 1/4"NF
20	012992	4	CAPSCREW, 3/8"NF x 1-1/4"
	904206	4	LOCKWASHER, 3/8"
	911041	4	NUT, 3/8"NF
21	619935	1	ANGLE, control shaft, front
22	012992	2	CAPSCREW, 3/8"NF x 1-1/4"
	904206	2	LOCKWASHER, 3/8"
23	044973	2	WASHER, plain

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DIVERTER VALVE CONTROL (Continued)

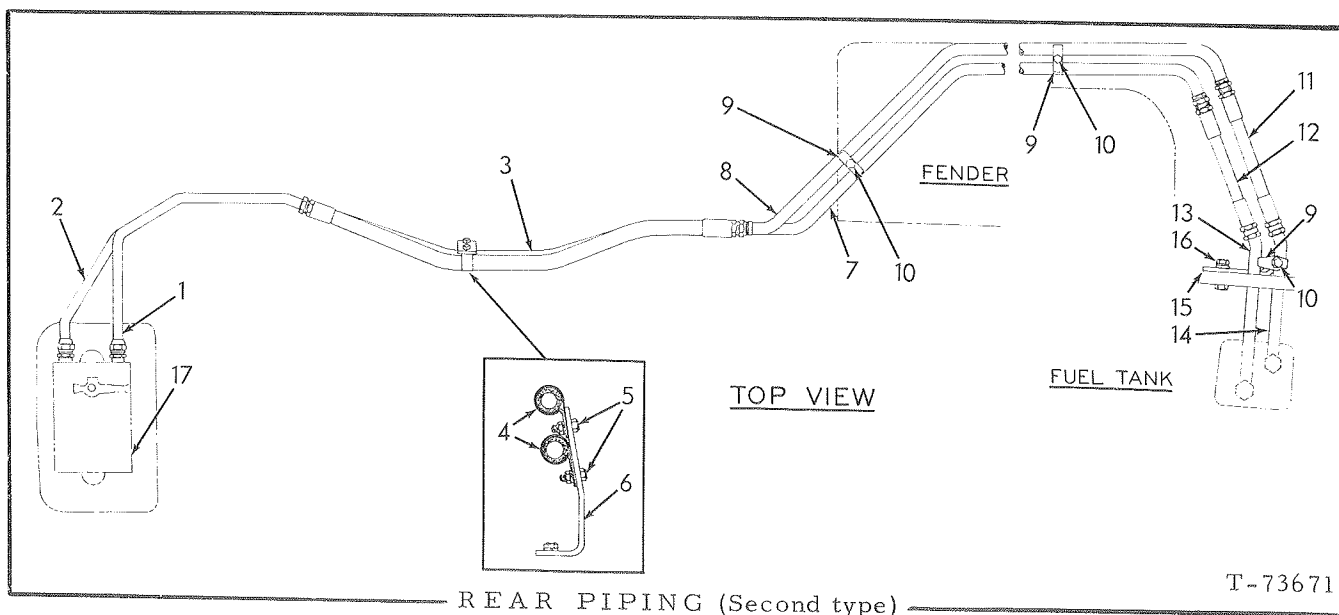
ITEM	PART NO.	QTY.	DESCRIPTION
24	611904	1	LEVER, control shaft, front
25	035336	1	CAPSCREW, 3/8"NF x 1-3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
26	611918	1	ROD, connecting, front
	911043	2	NUT, 1/2"NF
27	619809	1	BLOCK, tapped, angle attachment (Requires welding to install)



REAR PIPING (First type)

USAGE: Tractors prior to serial No. 5901 equipped with Model TR16 Ripper. Used with triple-control valve to provide rear hydraulic outlet.

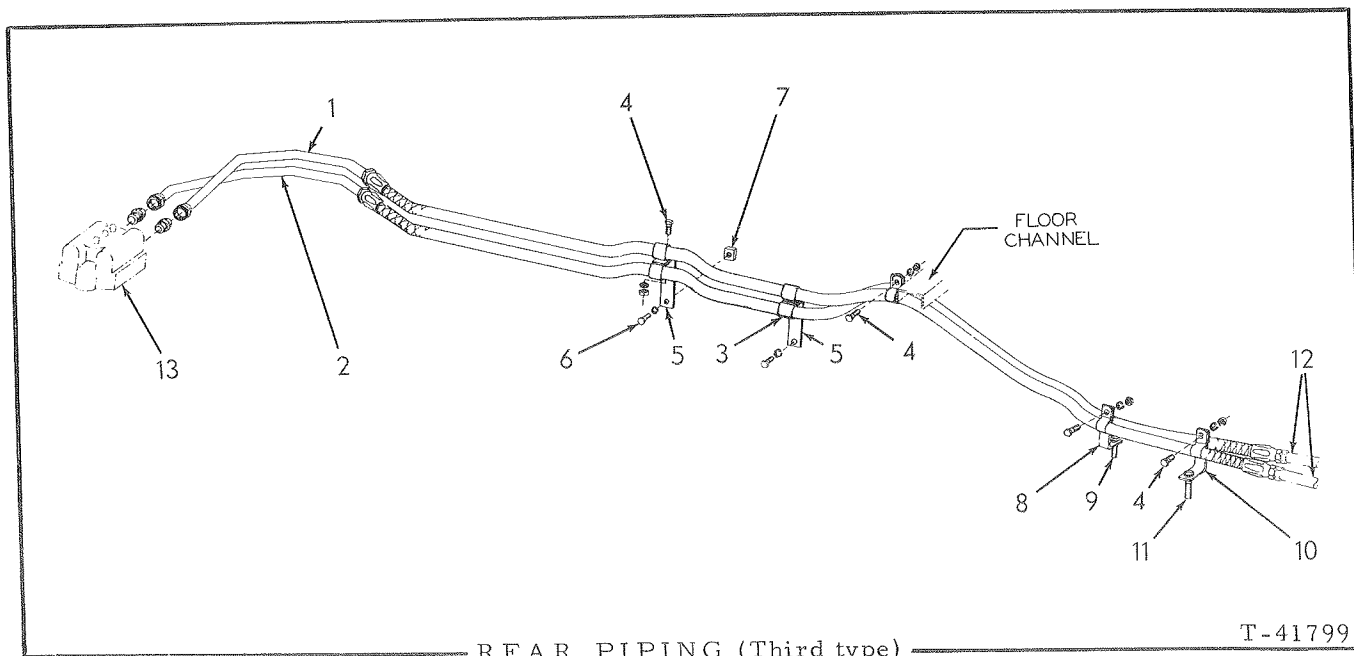
ITEM	PART NO.	QTY.	DESCRIPTION
1	626474	1	HOSE ASSEMBLY, upper (See HOSE PARTS)
	919064	1	CONNECTOR, flare type, 1" tube, 1"NPT male (Early units)
	921228	1	CONNECTOR, flare type, 1" tube, 1-5/16" straight thread (Includes O-RING 921214)(Late units)
2	626473	1	HOSE ASSEMBLY, lower (See HOSE PARTS)
	919064	1	CONNECTOR, flare type, 1" tube, 1"NPT male (Early units)
	921228	1	CONNECTOR, flare type, 1" tube, 1-5/16" straight thread (Includes O-RING 921214)(Late units)
3	618024	2	CLIP, hose supporting
4	070467	2	CAPSCREW, 1/2"NF x 1"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
5	625564	1	BRACKET, hose supporting
6	626468	1	TUBE, inner
7	626470	1	TUBE, outer
8	624931	2	CLAMP, tube
9	035278	2	CAPSCREW, 1/2"NF x 2-3/4"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
10	625565	2	HOSE ASSEMBLY, rear (See HOSE PARTS)
11	-----	-	TUBE ASSEMBLY (See CYLINDER PIPING in TR16 Ripper parts catalog)
12	-----	-	VALVE ASSEMBLY (See VALVE AND CONTROLS)



REAR PIPING (Second type)

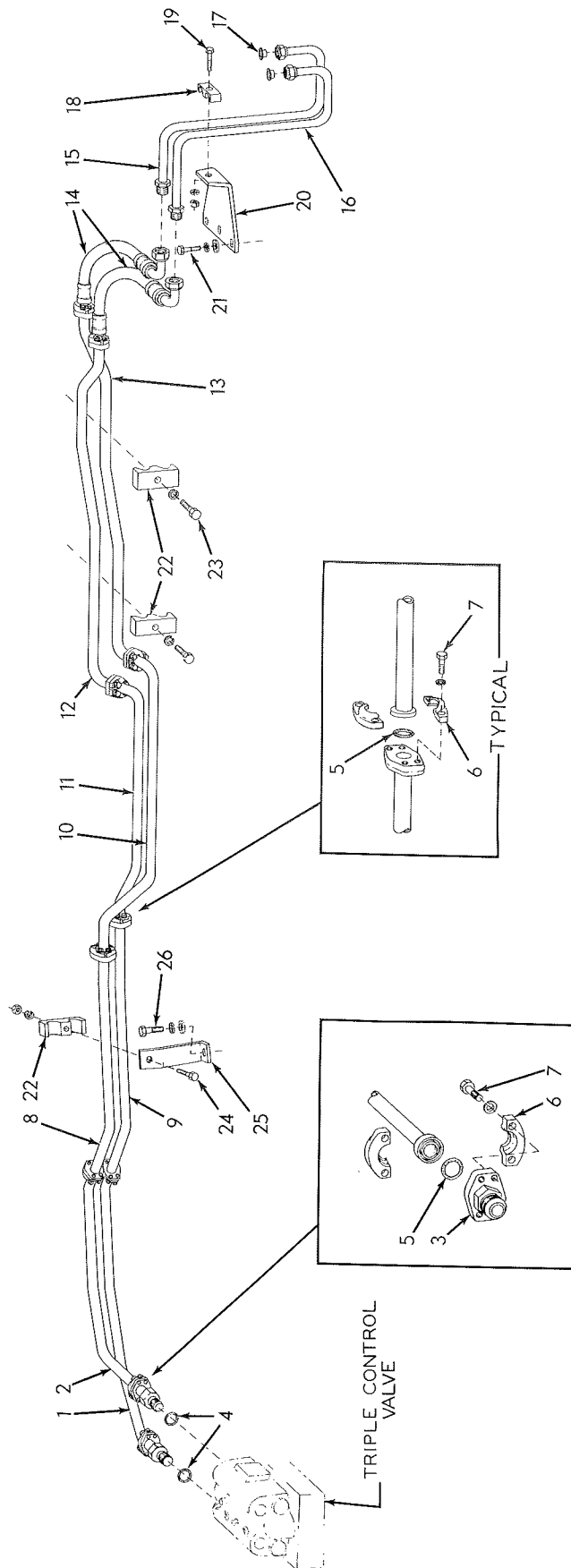
USAGE: Tractors prior to serial No. 5901 equipped with Model 16R Ripper. Used with triple-control valve to provide rear hydraulic outlet.

ITEM	PART NO.	QTY.	DESCRIPTION
1	650582	1	TUBE ASSEMBLY, front, drop line (Includes nuts)
	919064	1	CONNECTOR, flare type, 1" tube, 1"NPT male (Early units)
	921228	1	CONNECTOR, flare type, 1" tube, 1-5/16" straight thread (Includes O-RING 921214)(Late units)
2	650570	1	TUBE ASSEMBLY, front, raise line (Includes nuts)
	919064	1	CONNECTOR, flare type, 1" tube, 1"NPT male (Early units)
	921228	1	CONNECTOR, flare type, 1" tube, 1-5/16" straight thread (Includes O-RING 921214)(Late units)
3	650584	2	HOSE, front (See HOSE PARTS)
4	618024	2	CLIP, hose supporting
5	070467	2	CAPSCREW, 1/2"NF x 1"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
6	625564	1	BRACKET, hose supporting
7	650603	1	TUBE, inner
8	650577	1	TUBE, outer
9	624931	3	CLAMP, tube supporting
10	035278	3	CAPSCREW, 1/2"NF x 2-3/4"
	904208	3	LOCKWASHER, 1/2"
	911043	3	NUT, 1/2"NF
	064531	1	WASHER, plain
11	650573	1	HOSE, rear (20-3/4" long)(See HOSE PARTS)
12	650574	1	HOSE, rear (22-1/2" long)(See HOSE PARTS)
13	650604	1	TUBE ASSEMBLY, rear, raise line (Includes nuts)
	919064	1	CONNECTOR, flare type, 1" tube, 1"NPT male
14	650605	1	TUBE ASSEMBLY, rear, drop line (Includes nuts)
	919064	1	CONNECTOR, flare type, 1" tube, 1"NPT male
15	650572	1	ANGLE, tube supporting
16	035068	1	CAPSCREW, 1/2"NF x 2-1/4"
	064531	1	WASHER, plain
	904208	1	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2"NF
17	-----	-	VALVE ASSEMBLY (See VALVE AND CONTROLS)



USAGE: Tractors serial No. 5901 and up equipped with Model TR16 Ripper. Used with triple-control valve to provide rear hydraulic outlet.

ITEM	PART NO.	QTY.	DESCRIPTION
1	635145	1	HOSE ASSEMBLY, upper (See HOSE PARTS)
	919064	1	CONNECTOR, flare type, 1" tube, 1"NPT male (Early units)
	921228	1	CONNECTOR, flare type, 1" tube, 1-5/16" straight thread (Includes O-RING 921214)(Late units)
2	635144	1	HOSE ASSEMBLY, lower (See HOSE PARTS)
	919064	1	CONNECTOR, flare type, 1" tube, 1"NPT male (Early units)
	921228	1	CONNECTOR, flare type, 1" tube, 1-5/16" straight thread (Includes O-RING 921214)(Late units)
3	618024	10	CLIP, hose supporting
4	070467	5	CAPSCREW, 1/2"NF x 1"
	904208	5	LOCKWASHER, 1/2"
	911043	5	NUT, 1/2"NF
5	635125	2	ANGLE, hose clip, front
6	070467	1	CAPSCREW, 1/2"NF x 1"
	904208	1	LOCKWASHER, 1/2"
7	617728	1	BLOCK, tapped, front hose clip angle (Requires welding to install)
8	635126	1	ANGLE, hose clip, intermediate rear
9	035068	1	CAPSCREW, 1/2"NF x 2-1/4"
10	635124	1	ANGLE, hose clip, rear
11	035892	1	CAPSCREW, 1/2"NF x 2-1/2"
12	-----	-	TUBE ASSEMBLY (See CYLINDER PIPING in TR16 Ripper parts catalog)
13	-----	-	VALVE ASSEMBLY (See FRONT VALVE AND CONTROLS)



I-73672

REAR PIPING (Fourth type)

REAR PIPING (Fourth type)

USAGE: Units equipped with 16R Ripper. Tractors serial No. 5901 and up; also No. 64A09551 and up, and No. 24L09551 and up. Used with triple-rotor valve to provide rear hydraulic outlet.

* Tractors without turbocharger
** Tractors equipped with turbocharger

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	0656957-8	1	1	TUBE, valve front outlet
2	0656958-6	1	1	TUBE, valve rear outlet
3	{ 0657662-3	2	2	FITTING, tube to valve, 1"NPT (Early units)
	{ 0657658-1	2	2	FITTING, tube to valve, 1-5/16" straight thread (Late units)
4	0921214-3	2	2	O-RING, fitting (Late units only)
5	0924200-9	10	10	O-RING, tube connections
6	0921116-0	20	20	FLANGE, tube connecting (half only)
7	0040382-4	40	40	CAPSCREW, 3/8"NC x 1-3/8"
	0904206-0	40	40	LOCKWASHER, 3/8"
8	{ 0656955-2	1	-	TUBE, intermediate front section, upper
	{ 0670331-8	-	1	TUBE, intermediate front section, upper
9	{ 0656956-0	1	-	TUBE, intermediate front section, lower
	{ 0670332-6	-	1	TUBE, intermediate front section, lower
10	{ 0656962-8	1	-	TUBE, intermediate center section (inner line)
	{ 0670333-4	-	1	TUBE, intermediate center section (inner line)
11	{ 0656963-6	1	-	TUBE, intermediate center section (outer line)
	{ 0670334-2	-	1	TUBE, intermediate center section (outer line)
12	0656964-4	1	1	TUBE, intermediate rear section, upper
13	0656959-4	1	1	TUBE, intermediate rear section, lower
14	0662865-5	2	2	HOSE, tube connecting (See HOSE PARTS)
15	0656961-0	1	1	TUBE ASSY., rear section, right (Includes nuts)
16	0656960-2	1	1	TUBE ASSY., rear section, left (Includes nuts)
17	0924692-7	2	2	PLUG, protective
18	0656966-9	1	1	CLAMP, supporting, rear tubes
19	0035068-6	1	1	CAPSCREW, 1/2"NF x 2-1/4"
	0904208-6	1	1	LOCKWASHER, 1/2"
	0911043-8	1	1	NUT, 1/2"NF
20	0656967-7	1	1	BRACKET, supporting, rear tubes
21	0035068-6	3	3	CAPSCREW, 1/2"NF x 2-1/4"
	0904208-6	3	3	LOCKWASHER, 1/2"
	0064531-7	3	3	WASHER, plain
22	0656218-5	3	3	CLAMP, tube supporting
23	0035712-9	2	2	CAPSCREW, 1/2"NC x 2-1/2"
24	0916317-1	1	1	CAPSCREW, 1/2"NC x 2-3/4"
	0904208-6	3	3	LOCKWASHER, 1/2"
	0911028-9	1	1	NUT, 1/2"NC
25	{ 0670329-2	-	1	BRACKET, supporting, intermediate front section tubes
	{ 0656965-1	1	-	BRACKET, supporting, intermediate front section tubes
26	0916021-9	1	-	CAPSCREW, 5/8"NF x 2"
	0904209-4	1	-	LOCKWASHER, 5/8"
	0064810-5	1	-	WASHER, plain
27	0918237-9	-	2	CAPSCREW, 1/4"NC x 1-1/4"
	0092635-2	-	4	WASHER, plain
	0904204-5	-	2	LOCKWASHER, 1/4"
	0911024-8	-	2	NUT, 1/4"NC

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