MANITOU NORTH AMERICA, INC.
6401 Imperial Drive
Waco, TX 76712-6803

NOTE: Manitou Forklift Manuals are continually updated and subject to change without prior notice. If your Forklift Model or parts are not found in this manual, please contact your dealer or the Manitou North America Parts Department for the latest information and parts availability.

MT 1155
MANISCOPIC
T-3

PARTS MANUAL

For Parts Orders contact your Manitou North America Dealer or call:**Manitou North America Parts Dept.** (800) 425-3727 or (254) 799-0232. Parts Dept. Fax (254) 867-6504 Website:www.manitou.com/www.mnadealers.com

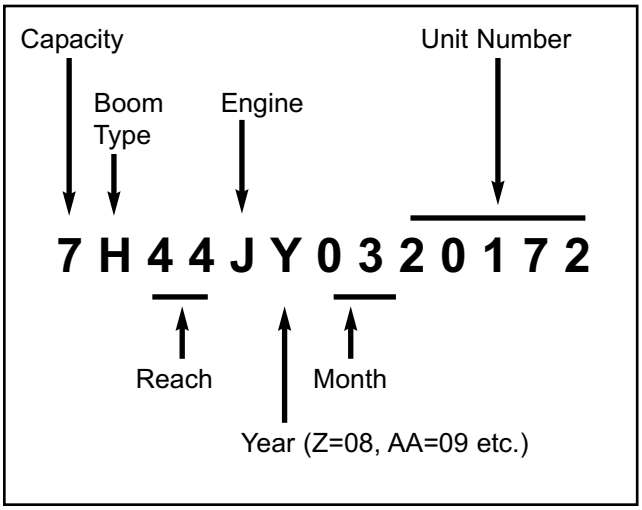
CATALOG 809887
R07-10

NOTE: *This parts manual identifies standard and optional features for this model. Depending on the features of your machine, some of the items identified in the parts lists may, or may not be included with your machine.*

The Table of Contents pages show the page locations of various component groups on the machine.

When ordering service parts, specify the correct part number, full description, quantity required, and the unit model and serial number.

Model and serial numbers for this unit are stamped on a plate located inside the operator's station. The serial number is also stamped on the top front frame. The following reference shows the breakdown of the serial number:



"Right" and "left" are determined from a position standing behind the unit and facing the direction of travel.

Manitou MNA Company reserves the right to make changes or improvements in the design or construction of any part of the unit without incurring the obligation to install such changes on any unit previously delivered.

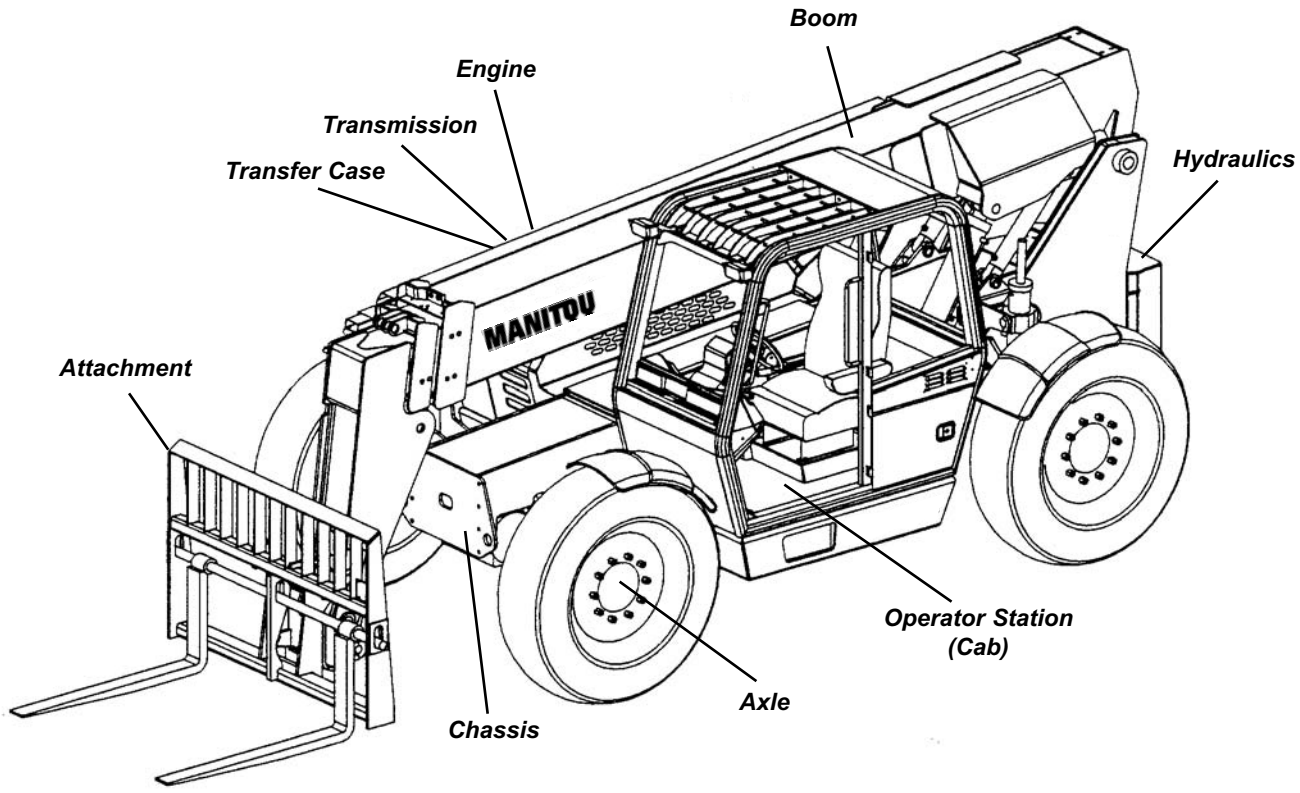
Grease fittings and common attaching hardware, such as cotter pins, set screws, woodruff keys, screws and nuts are included in the parts list, indented below the parts it is associated with, but NOT illustrated, except where a particular routing or special fastening arrangement MUST be maintained. The hardware listed is for mounting purposes and is NOT included when the part is ordered for replacement.

Part numbers for standard bolts are listed indented under the component being fastened, followed by abbreviations for washers/nuts.

Standard attaching hardware torque values are provided on the inside back cover. Unless otherwise specified, all cap screws are Grade 5, cadmium or zinc plated; hexagon nuts for Grade 5 cap screws and bolts are Grade 5.

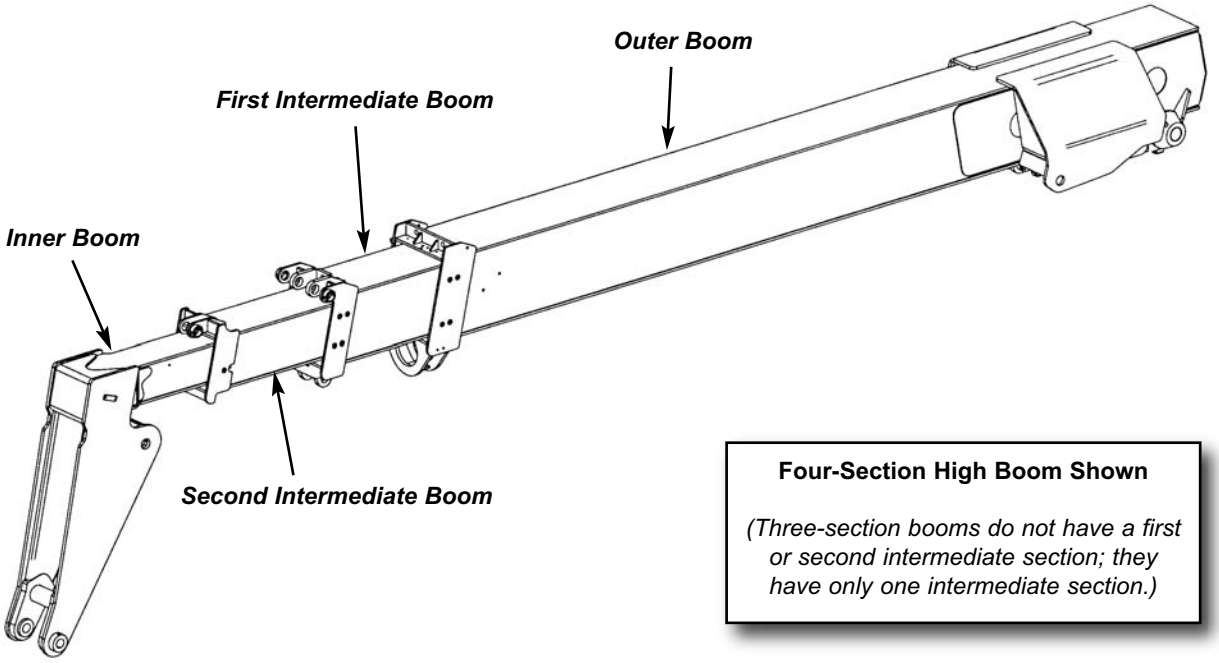
RIGHT

REAR



FRONT

LEFT



Four-Section High Boom Shown

(Three-section booms do not have a first or second intermediate section; they have only one intermediate section.)

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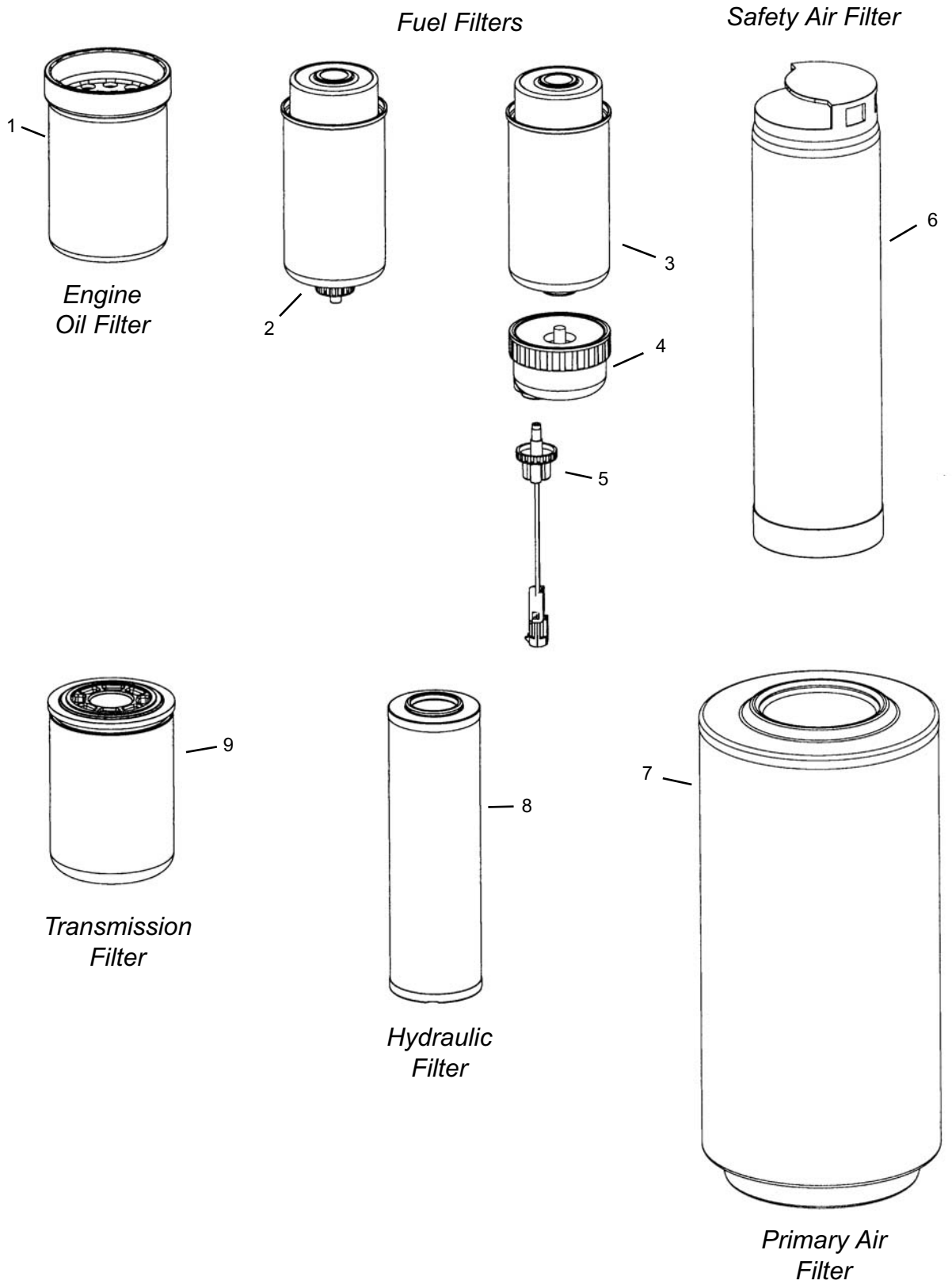
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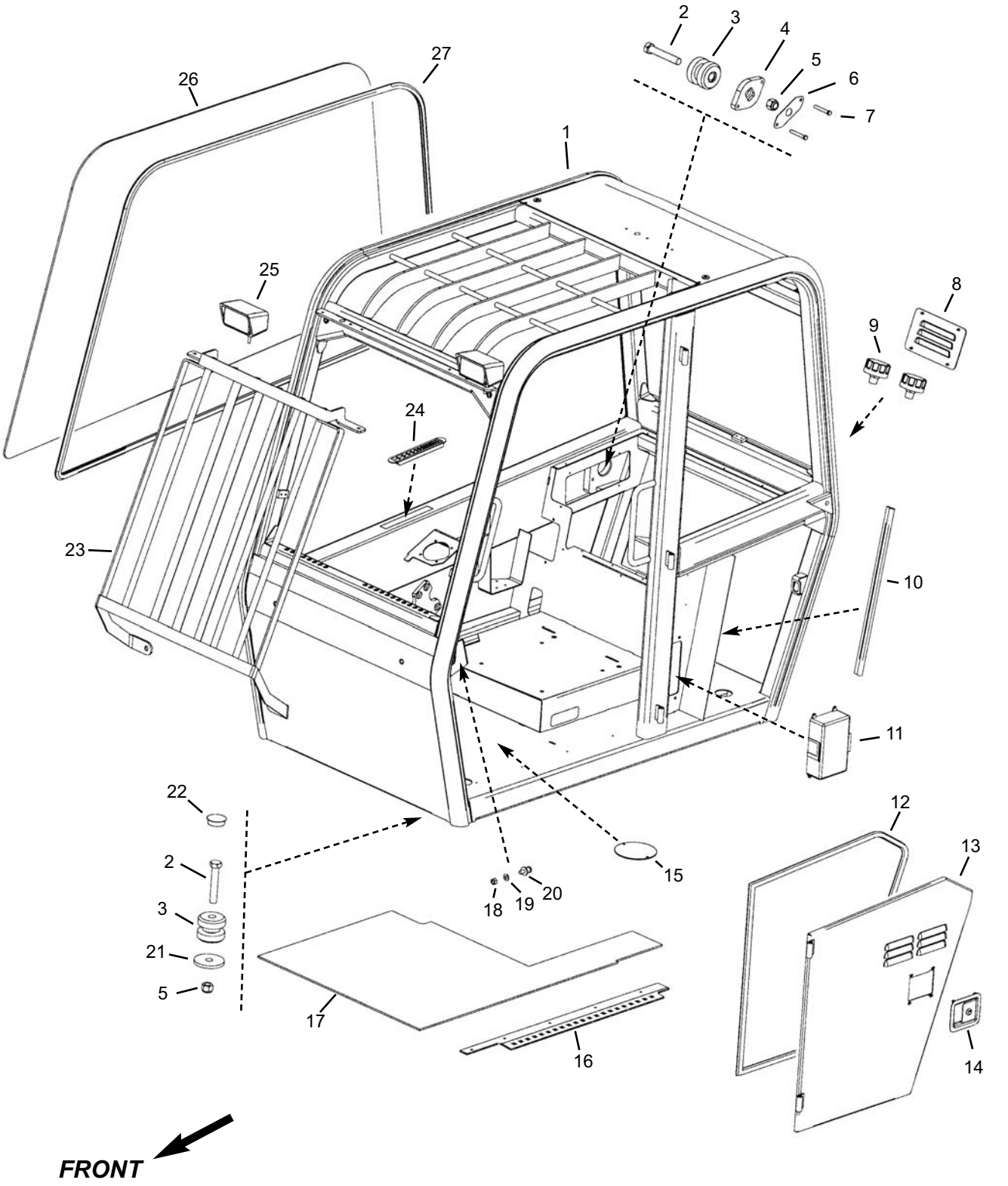
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Engine Oil Filter
Transmission Filter
Hydraulic Filter
Primary Air Filter

Ref. No.	Part No.	Description	Qty. Req.
		-- ENGINE OIL FILTER --	
01[a]	808000	ENGINE OIL FILTER	1
		-- ENGINE FUEL FILTER --	
02	809823	FUEL FILTER *(secondary)*	1
03	809824	FUEL FILTER *(primary)* *(does not include sediment bowl or water sensor)*	1
04	809827	SEDIMENT BOWL. *(does not include water sensor)*	1
05	809828	WATER SENSOR	1
		-- ENGINE AIR FILTER --	
06	809026	SAFETY AIR FILTER *(inner)*	1
07	809825	PRIMARY AIR FILTER *(outer)*	1
		-- HYDRAULIC FILTER --	
08	809885	HYDRAULIC FILTER.	1
		-- TRANSMISSION FILTER --	
09	809883	TRANSMISSION FILTER	1

a Use dust seal P/N 809290 as needed.

b Replace as needed.


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FRONT

Ref. No.	Part No.	Description	Qty. Req.
01	813313	OPEN CANOPY *(cab weldment)*	1
02	813314	7/8”-9X5” HEX GR 5	4
03	813315	ISO MOUNT	4
04	813316	WASHER/CANOPY MOUNT	2
05	813317	7/8”-9 CLASS C LOCK NUT	4
06	808092	RETAINER/CANOPY NUT	2
07	813318	3/8”-16X2-1/2” HX GR5	4
08	813319	PANEL/ACCESS BREATHER	1
	813320	SCREW	4
09	813321	BREATHER	2
10	813322	TRIM/DIVIDER	1
11	813323	FUSE BOX *(Does not include fuses or relays.)*	1
12	813324	BULB SEAL/STORAGE DOOR	1
13	813325	STORAGE DOOR	1
	813326	3/8”-16 LOCK NUT	2
	813327	3/8”-16X6” BOLT	2
14	813328	PADDLE LATCH	1
	809106	KEY ONLY (CH751)	1
15	813329	COVER	1
16	813330	FLOOR MAT RETAINER	1
17	813331	FLOOR MAT	1
18	813332	7/16” NUT	1
19	809287	7/16” FLAT WASHER	1
20	813333	STRIKER, DOOR	1
21	813334	WASHER, RETAINER	2
22	813335	PLUG/HOLE 2.25”	2
23	813336	FRONT GUARD	1
	813337	1/2” FLAT WASHER	AR
	813338	1/2”-13X1-1/4” BOLT GR5 HX	AR
24[a]	813339	FIXED VANE LOUVER	1
25	808889	HEAD LIGHT	2
	808901	HEAD LIGHT HARNESS	2
	813340	GROMMET, 11/16” ID 1-5/16” OD	2
	808341	GROMMET, 3/8” ID 13/16”OD	AR
	813341	GROMMET, 3/8” ID 3/4” OD	AR
26	813342	GLASS, SIDE *(right)*	1
	813343	SCREEN *(option)*	
	808492	SCREW/FLANGE	AR
	808493	CLIP/WINDOW BLACK	AR
27	813344	BULBSEAL, SIDE WINDOW *(right)*	1

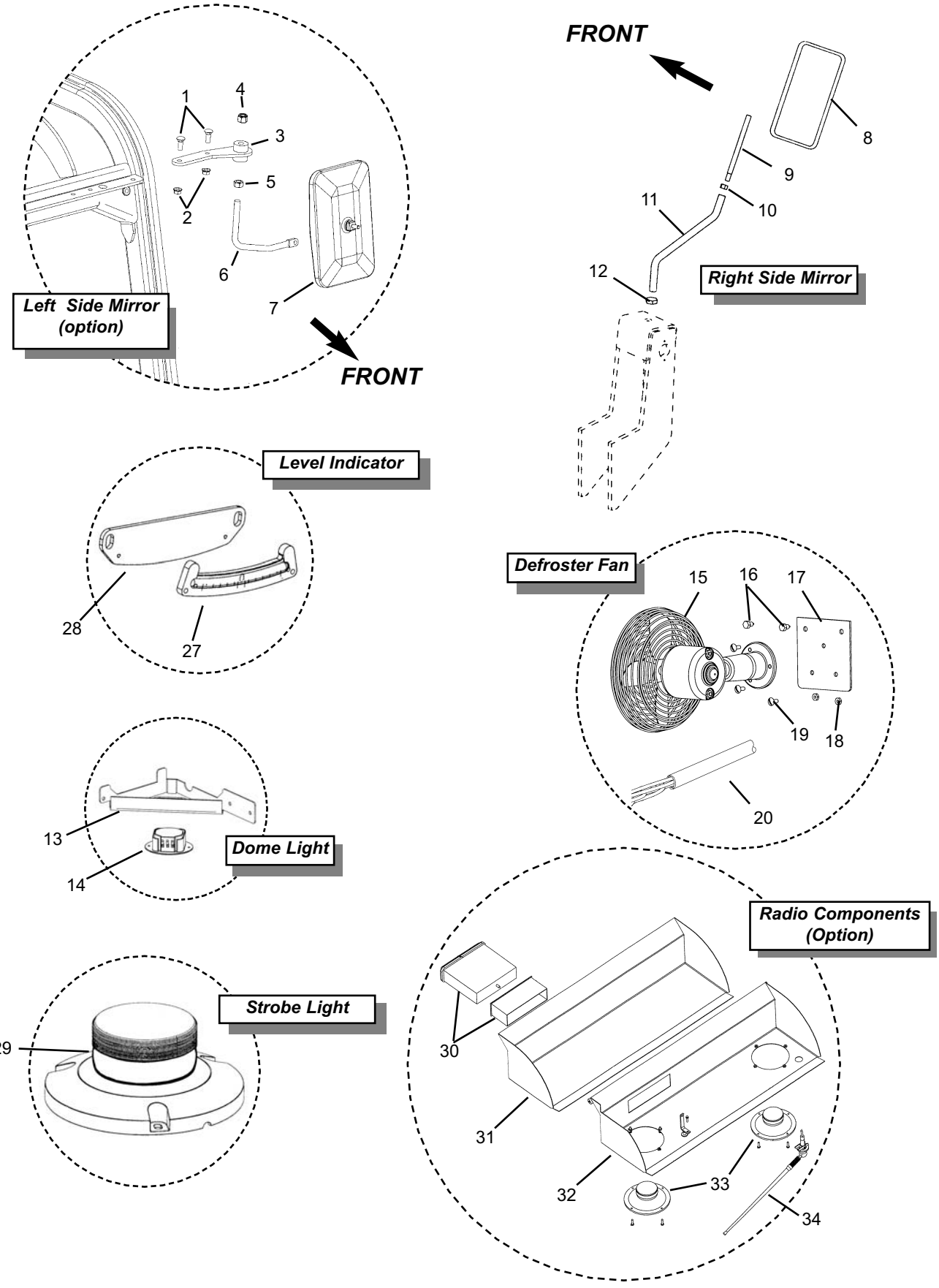
Ref. No.	Part No.	Description	Qty. Req.
		-- ITEMS NOT SHOWN --	
00	813345	PLUG/HOLE,.5" BLACK	1
00	813346	DECAL/ROPS/FOPS WARN.	1
00	813347	HEADLINER	1
		(Wiring Harness)	
00[b]	813348	CANOPY WIRE HARNESS.	1
	808577	DIODE PACK, 3 DIODES	2
	808576	DIODE PACK, CLEAR COVER. *(Attaches to fuse box and runs under the dash.)*	2
		(Wire Harness - Frame)	
00	813349	FRAME WIRE HARNESS	1
		(Fuse box fuses and relays)	
00	808892	CHANGEOVER RELAY	10
00	813350	FLASHER UNIT	1
00	813351	WIRE ASY	7
00	813352	CONNECTION BRIDGE.	2
00	813353	5 A ATC FUSE	4
00	813354	10 A ATC FUSE	4
00	813355	20 A ATC FUSE	4
00	813356	30 A FUSE	4
00L	808500	60 A FUSE	4

a When equipped with heater or air conditioning.

b Includes (2) diode packs PN 808577.

NOTE: *Refer to the Dash and Interior section for a listing of interior parts.*

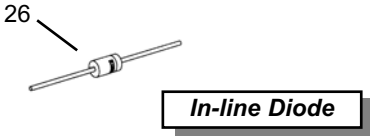
NOTE: *Refer to the Transmission section for the transmission controller and display parts.*


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12
Right Side Mirror
Level Indicator
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Defroster Fan
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13
Dome Light
14
Radio Components (Option)
Strobe Light
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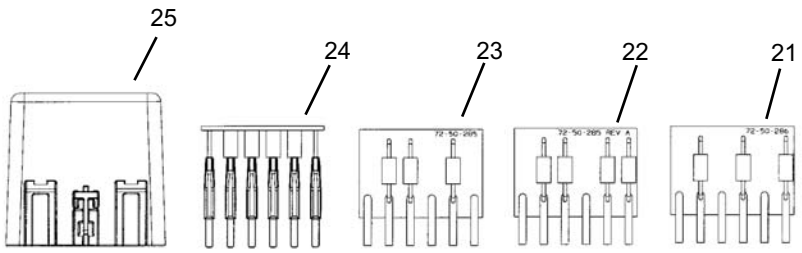
Ref. No.	Part No.	Description	Qty. Req.
		(Left Side Mirror - Option)	
01	813357	3/8"x1" CARRIAGE BOLT	2
02	808471	3/8" FLANGE LOCK NUT	2
03	813358	MIRROR MOUNT	1
04	808665	1/2" NYLON LOCK NUT	1
05	808575	1/2" JAM NUT	1
06	813359	BAR, MIRROR MOUNT	1
07	808731	MIRROR	1
		(Right Side Mirror)	
08	809880	SIDE MIRROR	1
09	813360	MIRROR BAR *(Mirror End)*	1
10	809288	5/8"-11 NUT	1
11	813361	MIRROR BAR *(Base End)*	1
12	813362	1" JAM NUT	1
		(Dome Light)	
13	813363	WLDMNT/DOME LIGHT MOUNT	1
14	813364	DOME LIGHT	1
	813470	HARNESS, INTERIOR LIGHT	1
	813471	HARNESS, DOME LIGHT GRND	1
	809179	GROMMET, 5/8"	1
	813365	#8-32X1/2" SCREW	1
		(Defroster Fan - Option)	
15	813366	DEFROSTER FAN	1
16	813367	1/4"-20X1/2" SELF TAPSCREW	2
17	813368	BRACKET, DEFROSTER FAN	1
18	813369	#10-24 NUT	3
19	809771	#10-24 BOLT	3
20	813370	HARNESS/DEFROSTER FAN	1
	813341	GROMMET, 3/8"ID 3/4"OD	AR

Ref. No.	Part No.	Description	Qty. Req.
		(Wiring Harness - Diode Packs)	
21	808577	DIODE PACK, 3 DIODES *(72-50-286)* *Imprinted on diode pack.*	AR
22	808808	DIODE PACK, 4 DIODES *(72-50-285 REV A)* *Imprinted on diode pack.*	AR
23	813371	DIODE PACK, 3 DIODES *(72-50-285)* *Imprinted on diode pack.*	AR
24	813372	DIODE PACK, 4 DIODES *(72-50-283)* *Imprinted on diode pack.*	AR
25	808576	CLEAR COVER, DIODE PACK	AR
		(Wiring Harness - In-line Diode)	
26	813373	3 AMP, IN-LINE DIODE *(used in: 101443 Canopy Harness, L71341 Frame Harness, and 101250 Engine Harness)*	AR
		(Level Indicator)	
27	808802	LEVEL INDICATOR	1
28	808862	LEVEL INDICATOR MOUNT	1
		(Strobe Light - Option)	
29	813374	STROBE LIGHT	1
	813375	STROBE LIGHT HARNESS	1
	813376	#8-32X1/2" MACH. SCREW	3
	813377	#8-32 NUT	3
	813378	GROMMET, RUBBER	1
	813379	SWITCH, BEACON	1
		(Radio Components - Option)	
30[a]	NSS	STEREO, CD W/ACCESSORIES	1
31[a]	NSS	FOSS, RADIO OPTION.	1
32	813380	WELDMENT, RADIO KIT	1
33	813381	SPEAKER, W/GRILL	2
34	813382	ANTENNA, TOP/SIDE MOUNT	1

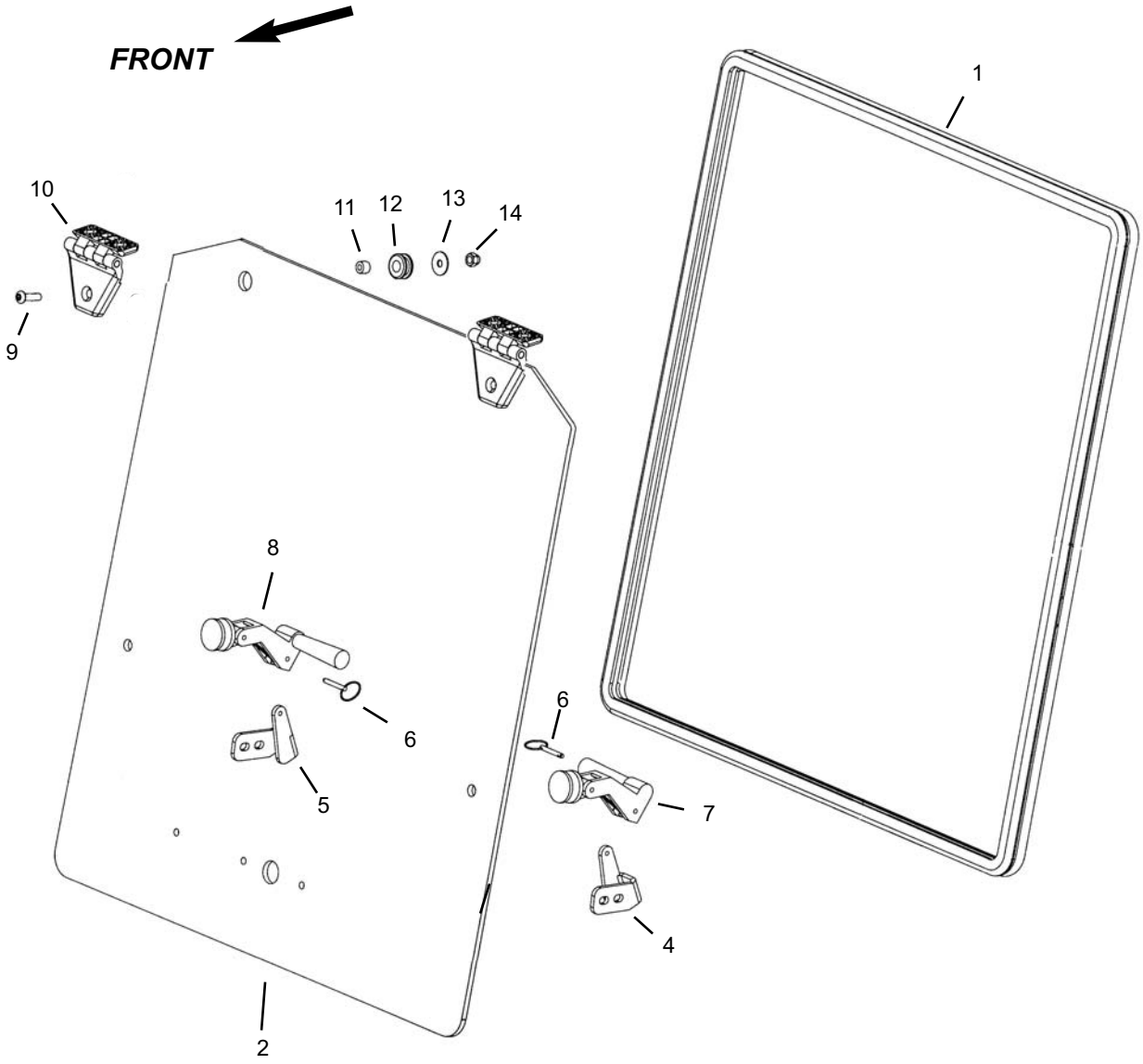
a *Obtain locally.*



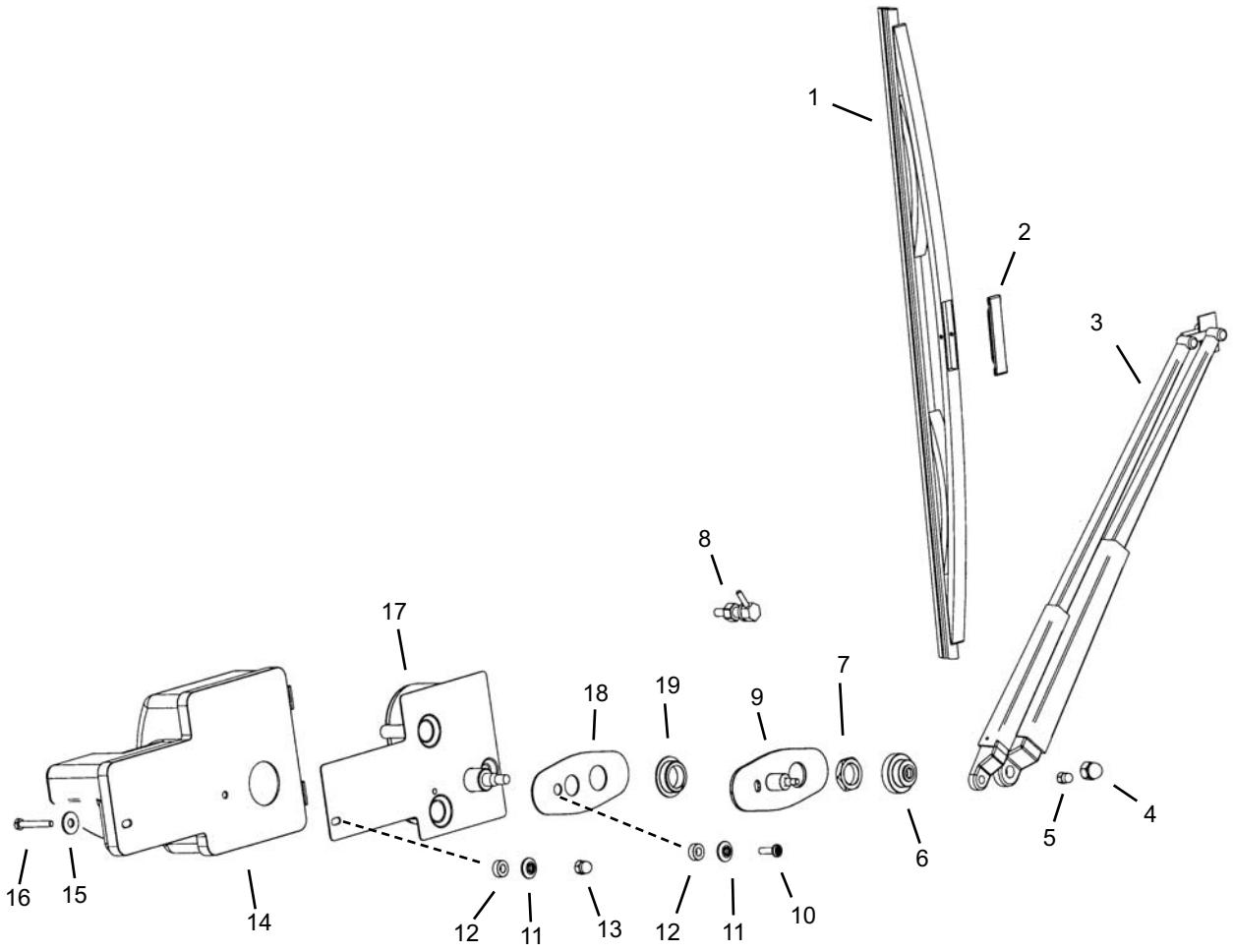
In-line Diode

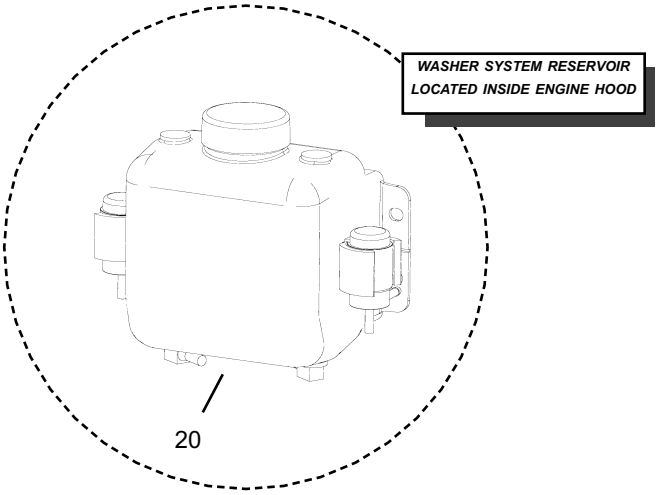


Diode Packs


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Ref. No.	Part No.	Description	Qty. Req.
01	813383	BULB SEAL	1
02	813384	FRONT GLASS	1
04	813385	HOLD OPEN BRACKET	1
	813386	1/4”-20X5/8” BOLT	2
	808589	1/4” LOCK WASHER	2
	809181	1/4” FLAT WASHER	2
05	813387	HOLD OPEN BRACKET	1
	813386	1/4”-20X5/8” BOLT	2
	808589	1/4” LOCK WASHER	2
	809181	1/4” FLAT WASHER	2
06	808486	DETENT RING PIN	2
07	808488	L STYLE HOLD OPEN *(left)*	1
	808481	ROLL PIN 3/16”X1/2”	1
08	808487	L STYLE HOLD OPEN *(right)*	1
	808481	ROLL PIN 3/16”X1/2”	1
09	813388	1/4”-20X1” TORXSCREW	2
10	808495	FRONT WINDOW HINGE	2
11	808482	NYLON BUSHING 1/4” ID	2
12	808483	GROMMET 1/2” ID	2
13	808484	FLATWASHER. .28” ID	2
14	813389	1/4”-20 ACORN NUT BLACK	2
		(Complete Front Window Assembly)	
00	813390	FRONT WINDOW ASSEMBLY *(Includes wiper motor and blade shown on next page.)*	1


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WASHER SYSTEM RESERVOIR
LOCATED INSIDE ENGINE HOOD
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Ref. No.	Part No.	Description	Qty. Req.
01	813391	WIPER BLADE	1
02	808569	ADAPTER / PIN LOCK	1
03[a]	808566	WIPER ARM	1
04	808564	M8 / ACORN NUT	1
05	808568	M5 / ACORN NUT	1
06	808571	RAIN SHIELD	1
07	808563	M18 / NUT	1
08	808494	ADAPTER/WET ARM	1
09	808574	PANTO ADAPTER PLATE	1
10	808572	SCREW / M5 16mm	1
11	808093	WASHER, #10 WEATHERTITE	2
12	808560	BUSHING / NYLON	2
13	808480	NUT/ACORN #10-24 BLK	1
14	808562	COVER WIPER MOTOR	1
15	808479	WASHER/BLK NYLON	AR
16	808573	FASTENER *(#10-24x1-1/4" bolt)*	1
17	808561	WIPER MOTOR	1
18	808565	GASKET / PANTO ADAPTER	1
19	808570	TOWER SEAL / WIPER	1
20	808089	WASHER BOTTLE, W/PUMP(S)	1

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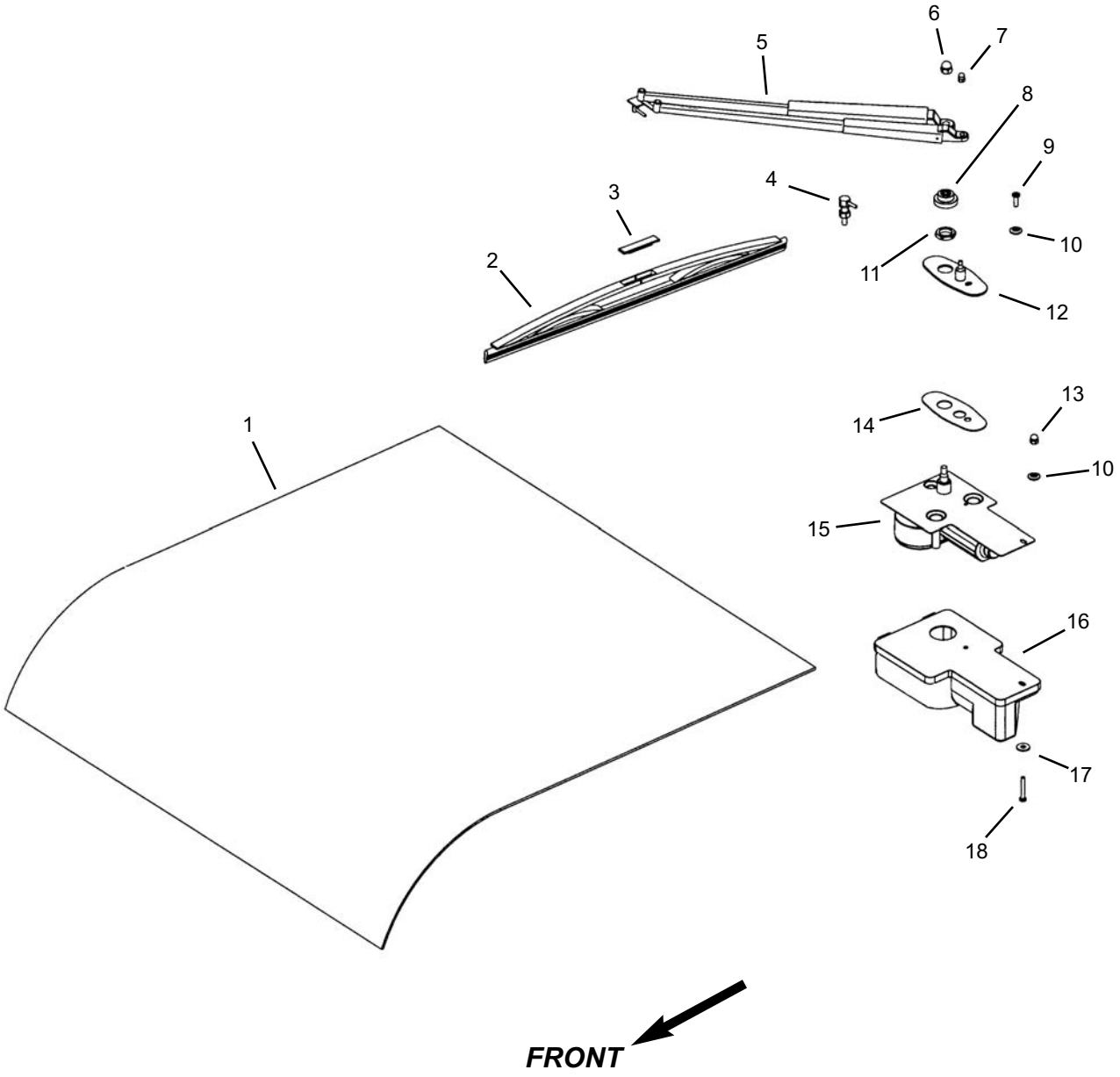
(Windshield Wiper Harness)

00	813392	HARNESS, FRONT WIPER	1
	809183	HARNESS, FRONT WIPER	1

(Windshield Washer System)

00	813394	HARNESS, WASHER BOTTLE	AR

a *P/N 808566 includes built in washer spray nozzle and hose (wet arm).*


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Top Window and Wiper

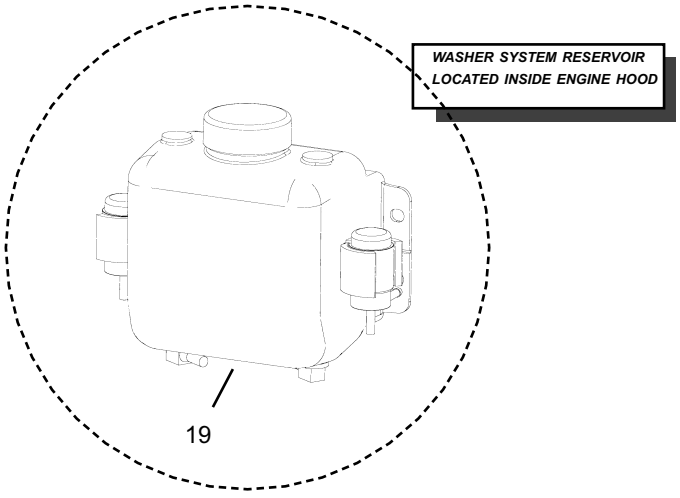
Ref. No.	Part No.	Description	Qty. Req.
01	813394	GLASS, SKYLIGHT CURVED	1
	808934	GLUE KIT	AR
02	813391	WIPER BLADE / 20"	1
03	808569	ADAPTER/PIN LOCK	1
04	808494	ADAPTER/WET ARM	1
05[a]	813395	ARM, WIPER 24" WET PANTO	1
06	808564	NUT / M8 PANTO PLATE	1
07	808568	NUT / M5 ACORN	1
08	808571	RAIN SHIELD	1
09	808572	SCREW / M5 16MM	1
10	808093	WASHER, #10 WEATHERTITE	AR
11	808563	NUT M18 HEX	1
12	808574	PANTO ADAPTER PLATE	1
13	808480	NUT/ACORN #10-24 BLK	1
14	808565	GASKET / PANTO ADAPTER	1
15	808561	WIPER MOTOR / TRICO	1
16	808562	COVER WIPER MOTOR	1
17	808479	WASHER/BLK NYLON	1
18	808573	#10-24x1.25 BOLT GR5	1
19	808089	WASHER BOTTLE, W/PUMPS	1
	813396	TOP WIPER HARNESS (includes top washer hose)	1

-- ITEMS NOT SHOWN --

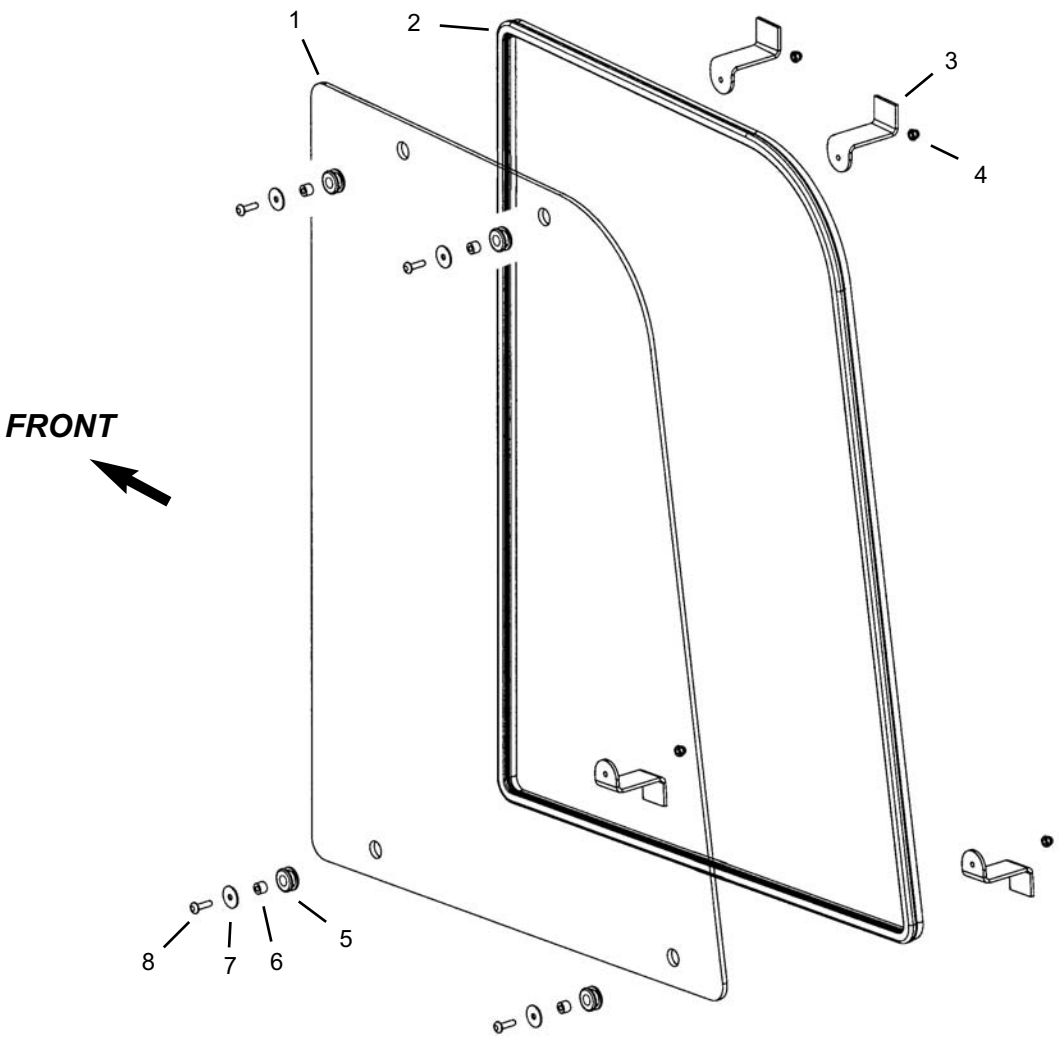
(Windshield Washer System)

00	813397	5/32” TUBING CONNECTOR	AR

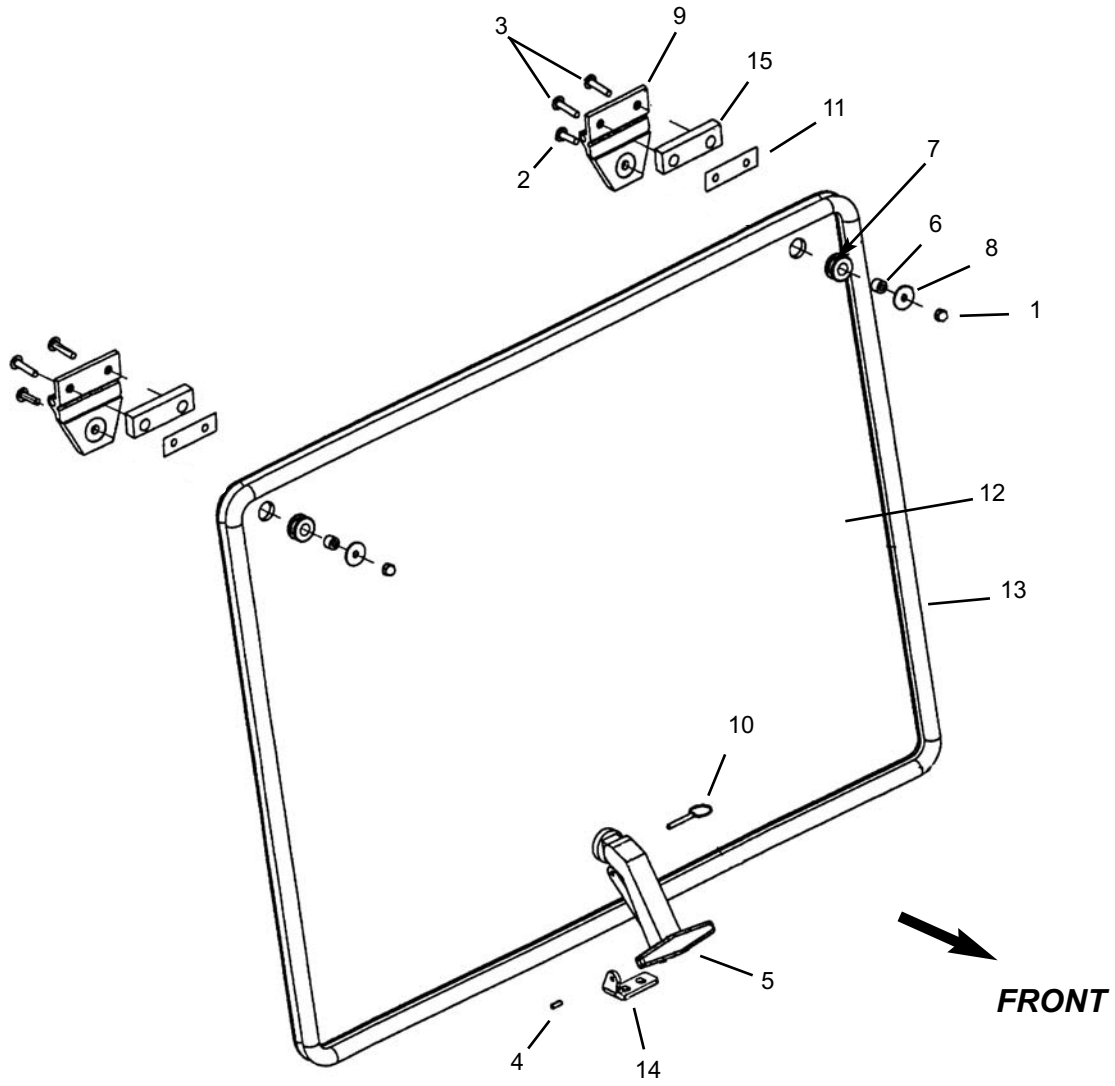
a Windshield washer spray nozzle is incorporated into wiper arm and is not sold separately.



Window - Left

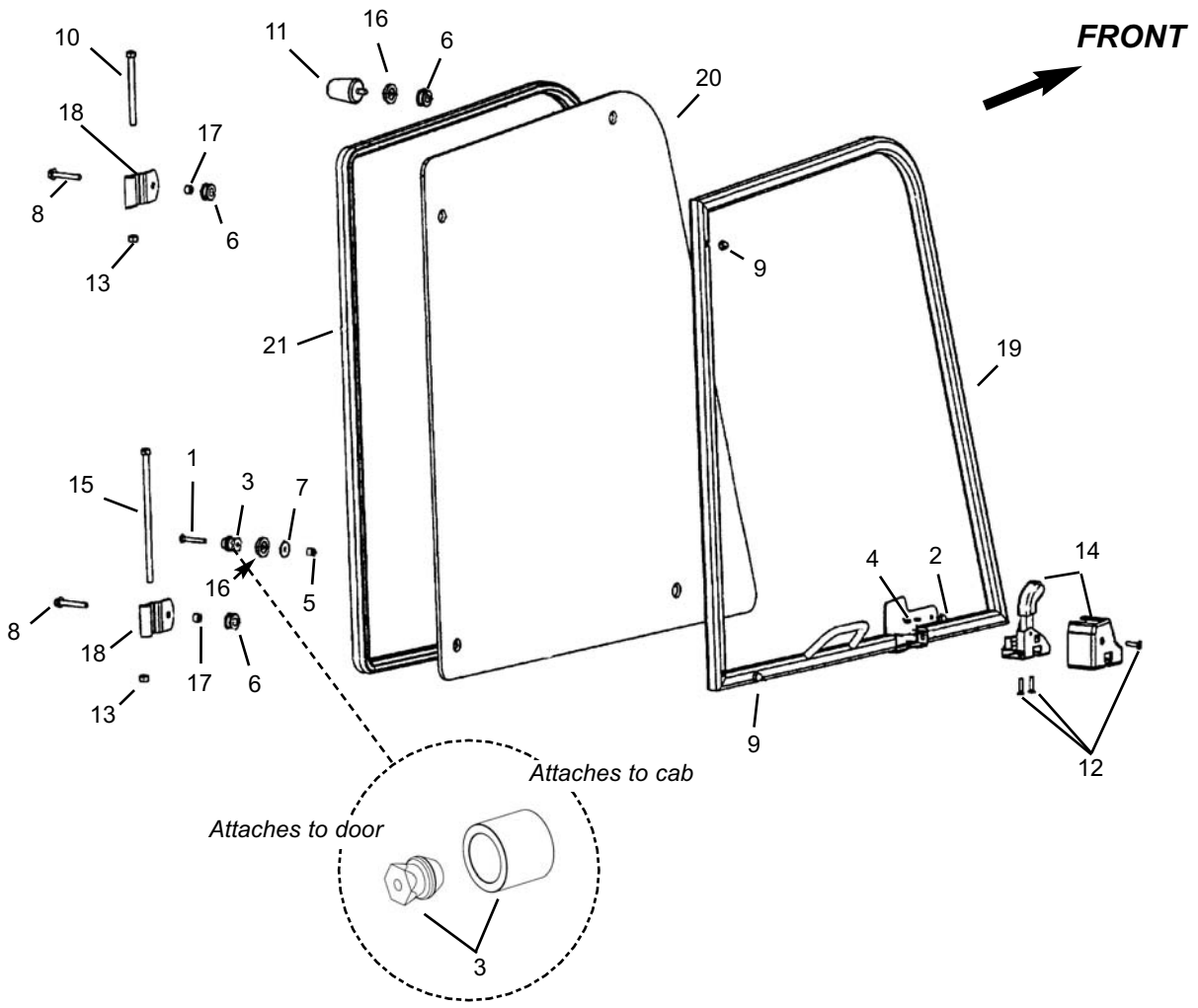


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	813398	GLASS *(left side)*	1	05	808483	GROMMET, 0.50” ID 0.25”	4
02	813399	BULBSEAL, REAR WINDOW *(left)*	1	06	808482	BUSHING/NYLON	4
03	813400	CLIP, Z	4	07	808484	WASHER/FLAT BLACK	4
04	813389	1/4”-20 NUT/ACORN BLK	4	08	813401	1/4”-20 x 7/8” TRS TX	4



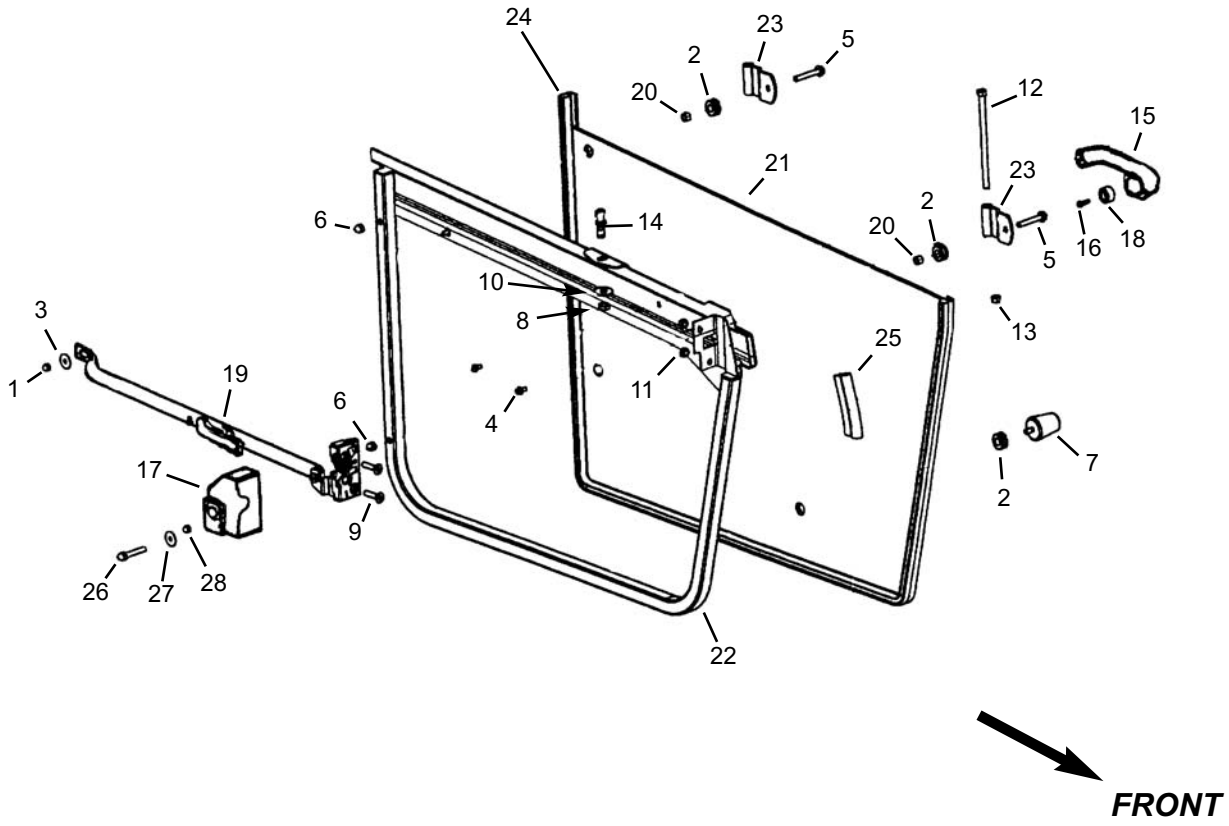
Ref. No.	Part No.	Description	Qty. Req.
00	813402	REAR WINDOW *(complete)*	1
01	813389	1/4”-20 NUT/ACORN BLK	2
02	813388	1/4”-20 x 1” BOLT BLK	2
03	813403	1/4”-20 x 1-1/4” TRS G5 ES5BF	4
04	808481	PIN, ROLL	1
05	808095	HOLD OPEN, WINDOW T-STYLE	1
06	808482	BUSHING, NYLON	2
07	808483	GROMMET, 1/2”ID 1/4” GROOVE	2
08	808484	WASHER, FLAT BLACK	2
09	808485	HINGE/PLASTIC	2
10	808486	PIN/DETENT RING	1
11	813404	GASKET	2
12	813405	GLASS, REAR WINDOW	1
13	813406	BULBSEAL, REAR WINDOW	1
14	808096	MOUNT, REAR WINDOW LATCH	1
15	813407	HINGE BLOCK	2

Door - Upper



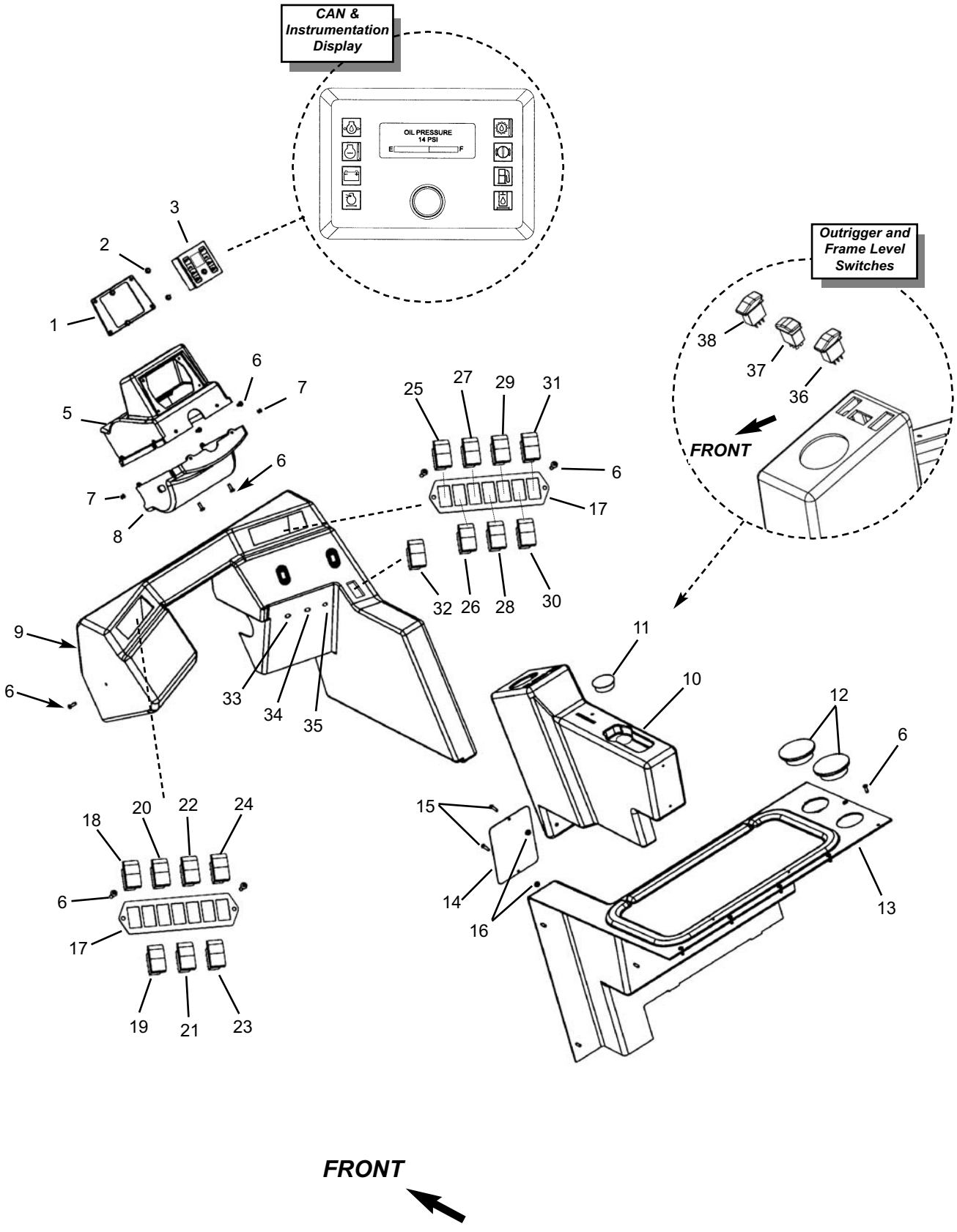
Ref. No.	Part No.	Description	Qty. Req.
00	813408	UPPER DOOR *(complete)* . . . . . 1 *(includes all items shown)*	
01	813409	SCREW, HEX 1	
02	813389	NUT, ACORN .25-20 BLK 1	
03[a]	808489	HOLD OPEN, DOOR *(set)* 1	
04	813410	NUT, HEX M6x1 YZ DR 10.9 2	
05	808482	BUSHING/NYLON 1	
06	808483	GROMMET, 0.50" ID 0.25" 3	
07	813411	BUSHING/NYLON-WHITE 1	
08	813412	BOLT/BLK TRUSS HEAD 2	
09	808490	NUT/ACORN BLACK 2	
10	813413	BOLT, 3/8"-16 x 4-1/2" 304 SS 1	
11	813414	BUMPER, RUBBER 2" CONE 1	
12	813415	BOLT, M6x1x25 FLT PH ES5YZ . . . 3	
13	813416	NUT, 3/8"-16 HEX TL-316SS 2	
14	813417	LATCH, ROTARY RIGHT 1	
15	813418	BLT, 3/8"-16 x 8-1/2" HEX SS 1	
16	808094	GLASS MOUNT 2	
17	808491	BUSHING, STEEL 2	
18	813419	HINGE, DOOR 2	
19	813420	WLDMNT, UPPER DOOR 1	
20	813421	GLASS, UPPER DOOR 1	
	808934	GLUE KIT 1	
21	813422	BULBSEAL, UPPER DOOR 1	

a *Includes both components, one attaches to door, the other attaches to the cab; they are not sold separately.*

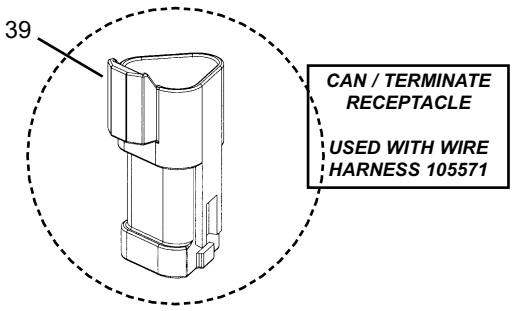


Ref. No.	Part No.	Description	Qty. Req.
00	813423	LOWER DOOR *(complete)*	1
		(includes all items shown)	
01	813389	1/4”-20 NUT/ACORN BLK	1
02	808483	GROMMET, 0.50”ID x 0.25”	3
03	808484	WASHER/FLAT BLACK	1
04	813424	SCR, M6 x 1 x 12 FLG YZD	2
05	813412	BOLT/BLK TRUSS HEAD	2
06	808490	NUT/ACORN BLACK	2
07	813414	BUMPER, RUBBER 2" CONE	1
08	813425	M12 x 1 HEX BOLT ES5CZ	1
09	813426	M8x1.25 x 35 BOLT	2
10	813427	1/2”x1-1/4” x .083” FLT WASHER Z	1
11	813428	M8x1.25 HEX NUT NK ES5CZ	2
12	813429	3/8”-16 x 5” BOLT	1
13	813416	38”-16 HEX NUT TL-316SS	1
14	813430	STRIKER, M12 x 1 x 25 mm	1
15	813431	HANDLE, EXT. DOOR LOCKING	1
	808097	KEY ONLY	

Ref. No.	Part No.	Description	Qty. Req.
16	813432	M5 x 8 x 20 BOLT PAN PH	1
17	813433	COVER, GRAB HANDLE LATCH	1
18	813434	BUMPER, RECESS	1
19	813435	CAM LATCH *(left)*	1
20	808491	BUSHING/STEEL	2
21	813436	GLASS, LOWER DOOR	1
22	813437	WLDMNT, LOWER DOOR	1
23	813438	HINGE, LOWER DOOR	2
24	813439	BULBSEAL, LOWER DOOR	1
25	813440	INSIDE SEAL, LOWER DOOR	1
26	813441	M8 x 20 BOLT HEX FLNG HD	1
27	813442	WASHER/BLK NYLON	1
28	813443	M8 HEX NUT YZ	1
		-- ITEMS NOT SHOWN --	
00	808934	GLUE KIT	1


CAN & Instrumentation Display
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Outrigger and Frame Level Switches
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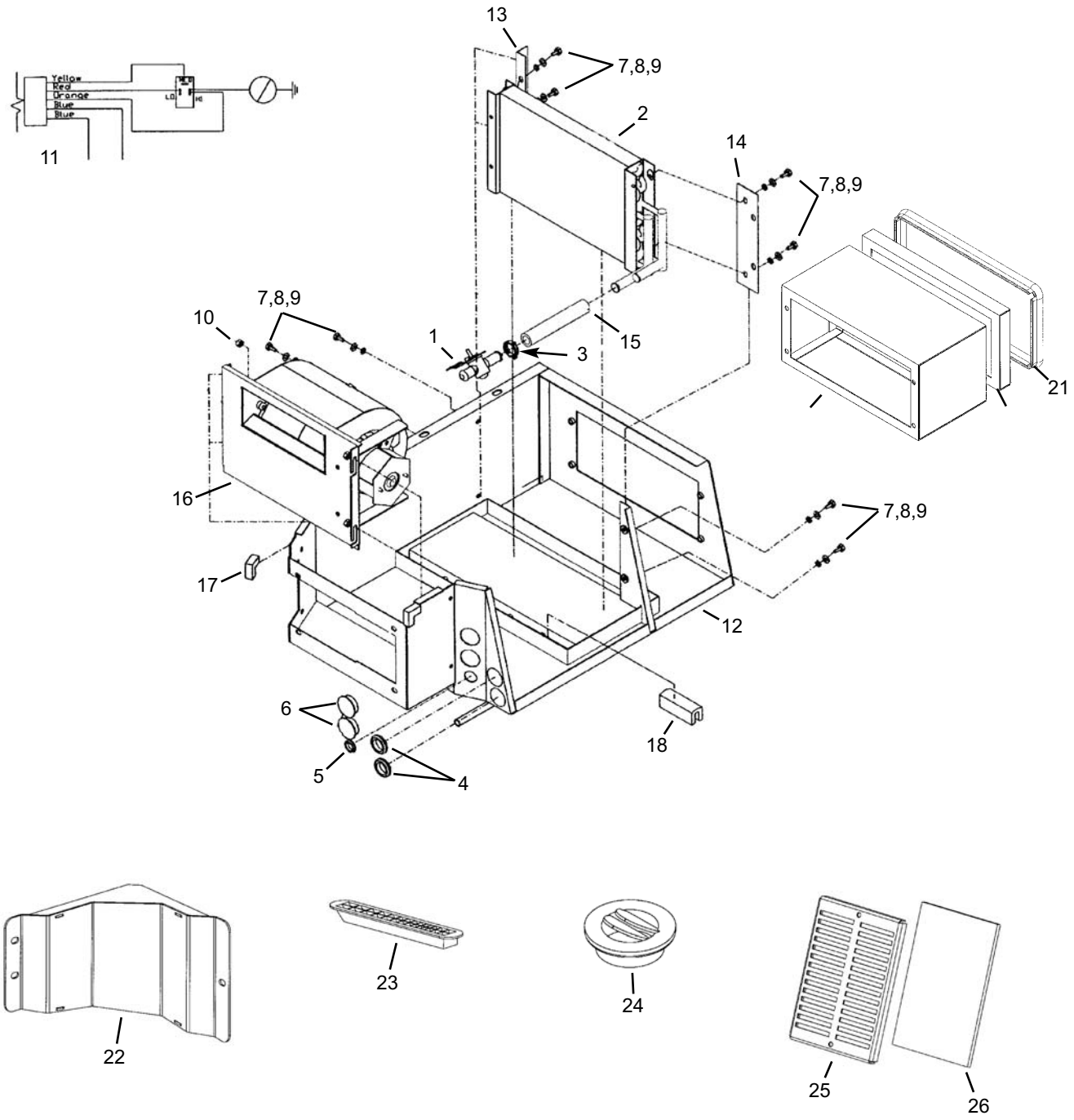
Ref. No.	Part No.	Description	Qty. Req.
01	813444	PANEL, DISPLAY MOUNT	1
02	813445	RIVET, REMOVABLE	4
03	813446	DISPLAY, CAN & INSTRUMENTS	1
05	813447	PLASTIC, UPPER STEER COL.	1
06	808090	SCREW, 1/4"-20 x.3/4" *(phillips)*	32
07	813448	BINDING POST & SCREW	2
08	813449	PLASTIC, LOWER STEER COL.	1
09	813450	PLASTIC, DASH	1
10	813451	PLASTIC, CONSOLE *(right side)*	1
11	813335	PLUG, 2.25 " HOLE	1
12	813452	PLUG, 3.0" HOLE	2
13	813453	PLASTIC, REAR DECK.	1
14	813454	COVER, RECIRC VENT HOLE.	1
15	813388	SCREW, 1/4"-20 x1" BLK	2
16	808545	NUT, 1/4"-20 WHIZ LOCK ZP	2
17	813455	BEZEL *(7 holes for switches)*	2
18	808922	SWITCH, STEER MODE.	1
19	813456	SWITCH, AXLE ALIGNMENT	1
20[a]	808926	SWITCH, LIGHTS	1
21[a]	808924	SWITCH, HAZARD LIGHTS	1
22[a]	808927	SWITCH, TURN SIGNALS	1
23[a]	813457	SWITCH, BEACON	1
24	808938	SWITCH, WORK PLATFORM.	1
25[a]	808925	SWITCH, ETHER INJECTION	1
26	808928	SWITCH, CLUTCH CUT-OUT.	1
27[a]	808923	SWITCH, WIPER-WASHER	1
28[a]	808923	SWITCH, WIPER-WASHER	1
29[a]	813458	SWITCH, FAN SPEED	1
30[a]	813459	SWITCH, HEATER & A/C	1
	813460	SWITCH, HEATER ONLY	1
31	808921	SWITCH, PARK BRAKE	1
32	808083	SWITCH, ENGINE FAULT.	1
33	808073	IGNITION SWITCH	1
	808074	KEY ONLY	1
34	808438	START PUSH BUTTON	1
35	813461	HEATER CONTROL W/CABLE.	1
	809165	KNOB ONLY.	1
36[a]	813462	SWITCH, OUTRIGGER *(left)*	1
37	813463	SWITCH, FRAME LEVEL	1
38[a]	813464	SWITCH, OUTRIGGER *(right)*	1
39	813465	CAN, TERMINATE RECEPTACLE *(included with wire harness 813466)*	1



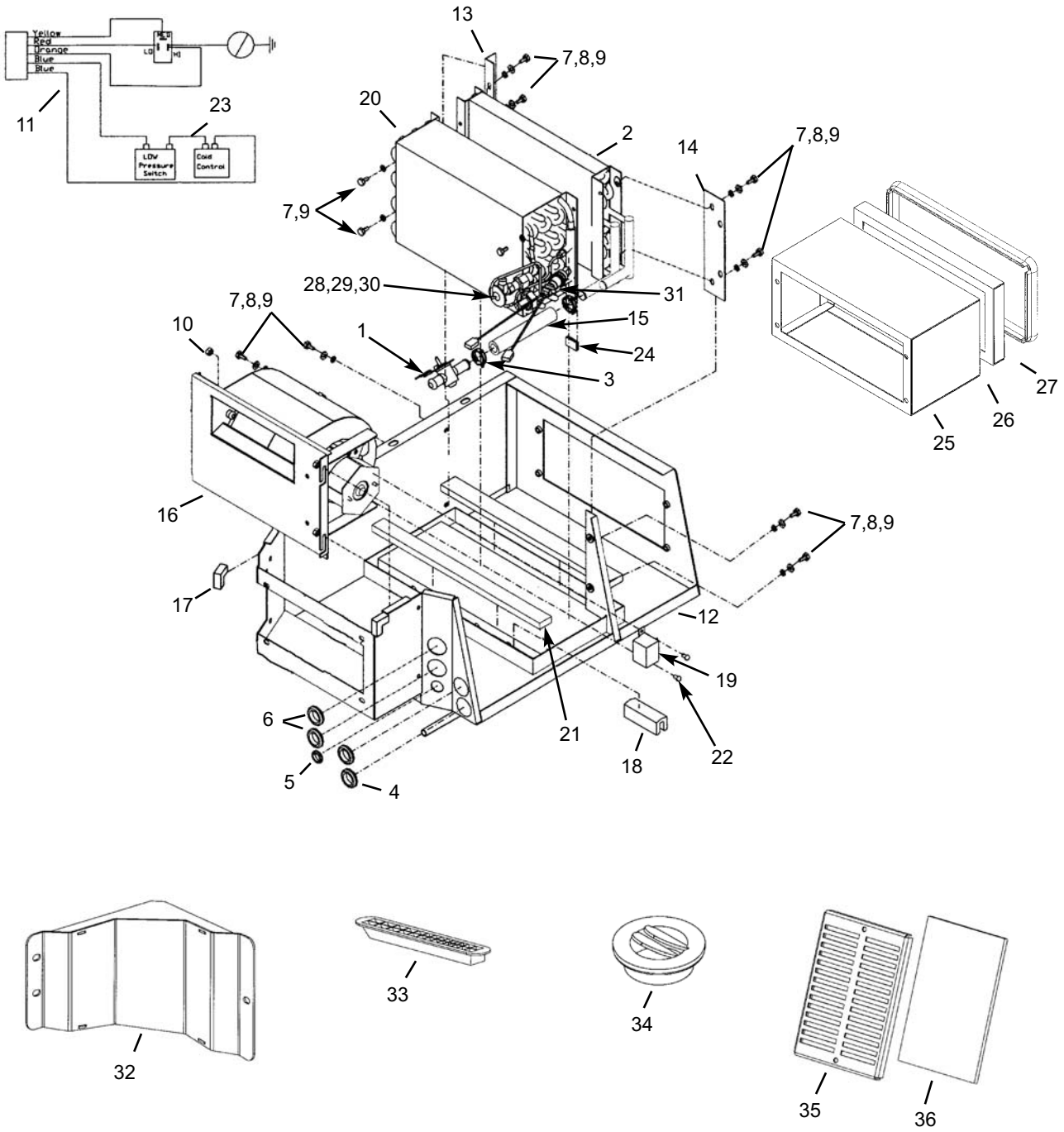
Ref. No.	Part No.	Description	Qty. Req.
		-- ITEMS NOT SHOWN --	
00	813466	DUAL RATE ALARM (*buzzer*)	1
00	813467	HOLE PLUG, 7/16"	AR
00	808891	HOLE PLUG, 1/2"	AR
		(Load Chart)	
00	813468	PLATE, LOAD CHART	10
00	808734	U-BOLT 1/4".	2
00	808545	1/4" NUT	4
		(Wiring Harness)	
00	813348	CANOPY WIRE HARNESS.	1
	808577	DIODE PACK, 3 DIODES	2
	808576	DIODE PACK, CLEAR COVER. *(Attaches to fuse box and runs under the dash.)*	2
00	813469	DOME LIGHT HARNESS	1
00	813470	DOME LIGHT GROUND WIRE.	1
		(Wire Harness - Frame)	
00	813349	FRAME WIRE HARNESS	1
		(Wire Harness - Engine)	
00	813466	ECU INTERFACE HARNESS	1
	813465	CAN, TERMINATE RECEPTACLE	1
00	813471	ENGINE HARNESS	1
00	813472	THROTTLE AND INSTRUMENTS	1
		(Wire Harness - Transmission) *(refer to Transmission section)*	
		(Fuse box fuses and relays)	
00	808892	CHANGEOVER RELAY	10
00	813350	FLASHER UNIT	1
00	813351	WIRE ASY	7
00	813352	CONNECTION BRIDGE.	2
00	813353	5 A ATC FUSE	4
00	813354	10 A ATC FUSE	4
00	813355	20 A ATC FUSE	4
00	813356	30 A FUSE	4
00	808500	60 A FUSE	4

NOTE: *Right side arm rest is shown in the Seat section.*

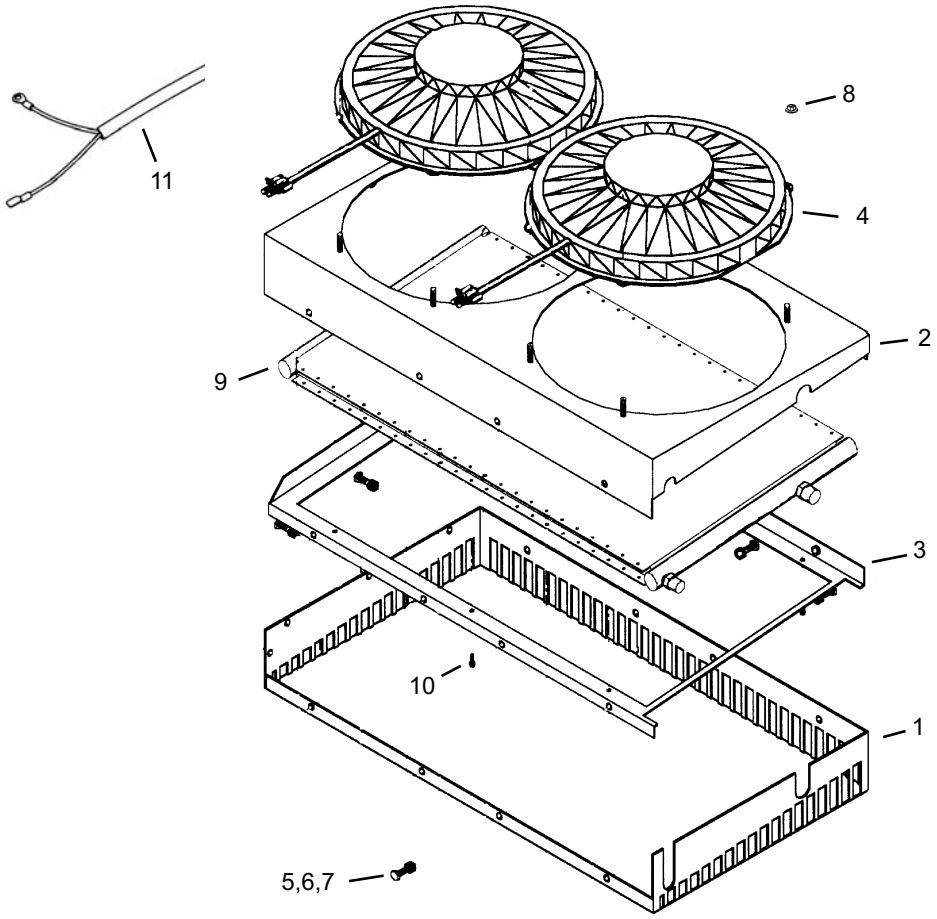
a *Use part number 809694 Switch Hole Plug whenswitch is not present.*


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Ref. No.	Part No.	Description	Qty. Req.
01	808496	VALVE, WATER	1
02	813474	COIL, HEATER	1
03	809193	CLAMP, HOSE	2
04	813475	GROMMET, 1-3/8" x 1"	2
05	813476	GROMMET, 7/8" x 5/8"	1
06	813477	PLUG, PLASTIC, 1-3/8"	2
07	813478	1/4"-20 x 1/2" BOLT	11
08	809181	FLAT WASHER, 1/4"	8
09	809690	LOCK WASHER, 1/4"	11
10	808545	NUT, 1/4"-20 WHIZ LOCK ZP	4
11	813479	WIRE HARNESS	1
12	813480	MAIN HOUSING WLDMNT	1
13	813481	BRACKET, COIL *(left)*	1
14	813482	BRACKET, COIL *(right)*	1
15	813483	HOSE, HEATER	1
16	813484	BLOWER ASSEMBLY	1
	813485	FAN MOTOR *(one only)*	1
17	813486	STRIP, WEATHERSTRIP	1
18	813487	STRIP, TRIM	1
19	813488	FILTER HOUSING	1
20	813489	FILTER	1
21	813490	HOUSING BULBSEAL	1
22	813491	HEATER DUCT	1
	813367	1/4"-20X1/2" BOLT	3
23	813339	LOUVER, FIXED VAIN	1
24	813492	LOUVER, ROUND 3"	2
25	813493	COVER, RECIRC FILTER	1
26	813494	RECIRCULATING FILTER	1
		--EXTERNAL COMPONENTS NOT SHOWN--	
27	813461	HEATER CONTROL W/CABLE	1
	809165	KNOB ONLY	1
28	813495	DECAL, HEATER CONTROL	1
29	813496	HEATER HOSE (16 feet)	1
30	813497	SHUT-OFF VALVE *(mounted on engine)*	1

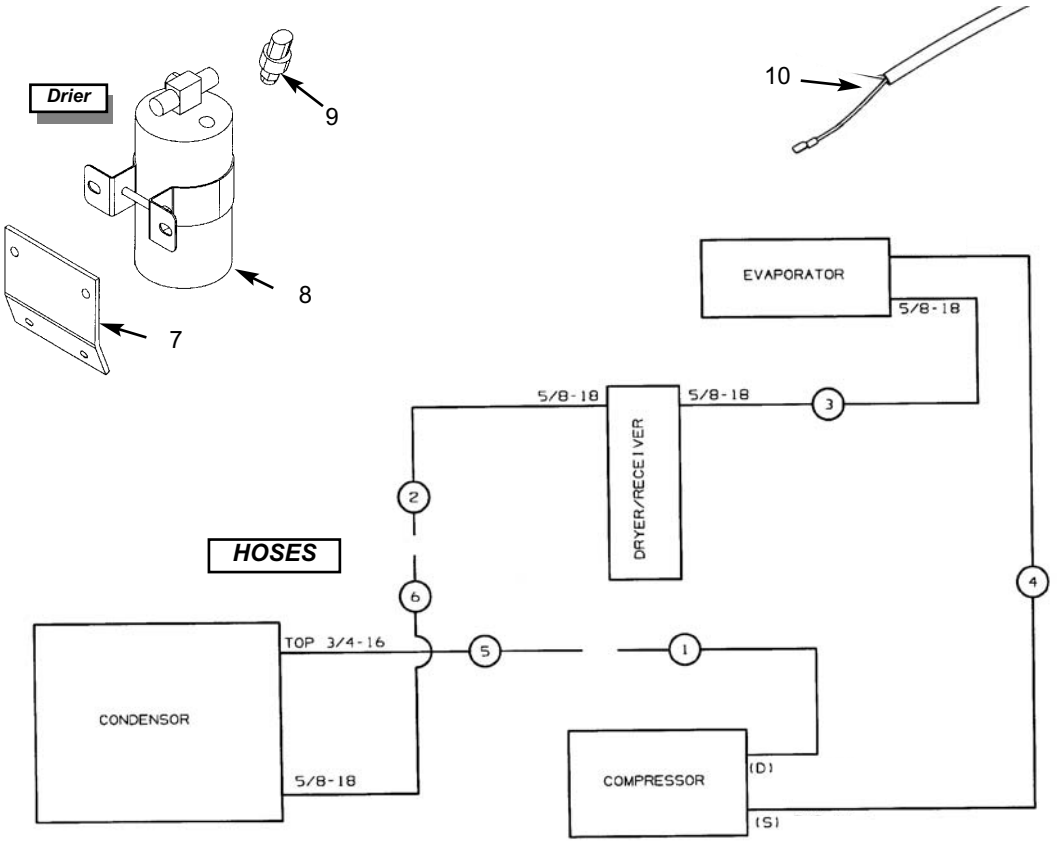

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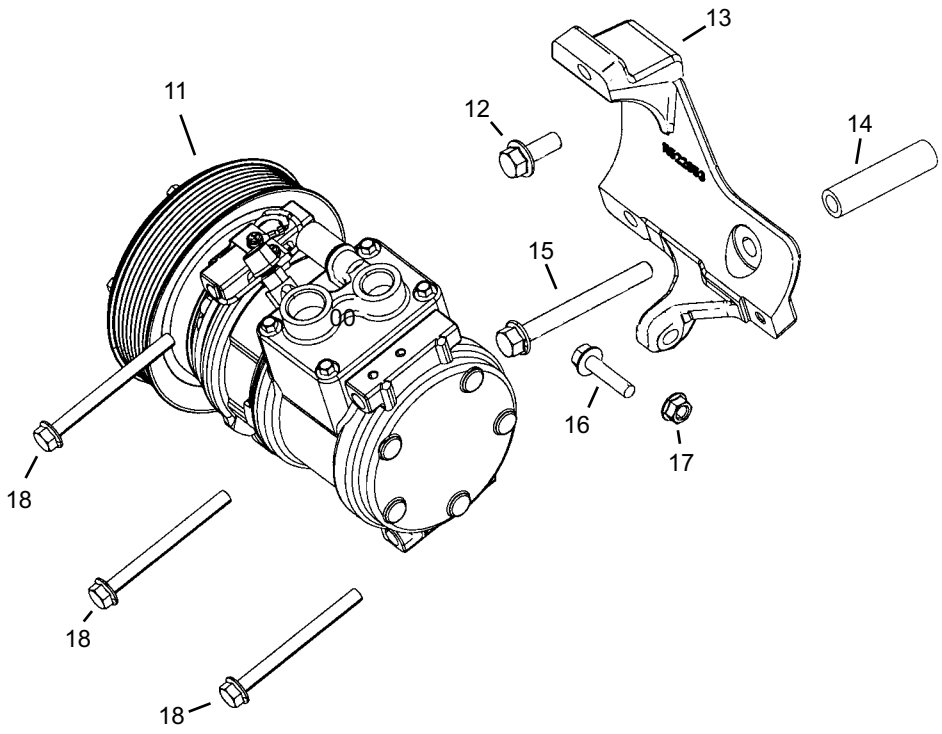
Ref. No.	Part No.	Description	Qty. Req.
01	808496	VALVE, WATER	1
02	813474	COIL, HEATER	1
03	813498	CLAMP, HOSE	2
04	813475	GROMMET, 1-3/8"x 1"	3
05	813476	GROMMET, 7/8" x 5/8"	1
06	813499	GROMMET, 1-1/4" x 7/8"	1
07	813478	1/4"-20 x 1/2" BOLT	11
08	809181	FLAT WASHER, 1/4"	8
09	809690	LOCK WASHER, 1/4"	11
10	808545	NUT, 1/4"-20 WHIZ LOCK ZP	4
11	813479	WIRE HARNESS	1
12	813480	MAIN HOUSING WLDMNT	1
13	813481	BRACKET, COIL *(left)*	1
14	813482	BRACKET, COIL *(right)*	1
15	813483	HOSE, HEATER	1
16	813485	BLOWER ASSEMBLY	1
	813485	FAN MOTOR *(one only)*	1
17	813486	STRIP, WEATHERSTRIP	1
18	813487	STRIP, TRIM	1
19	813500	COLD CONTROL, PRE-SET	1
20	813501	EVAPORATOR COIL, 6 ROW	1
21	813502	DRAIN FOAM	2
22	813503	SEMS SCREW	2
23	813504	WIRE ASSEMBLY	1
24	813505	MOUNTING CLIP	1
25	813488	FILTER HOUSING	1
26	813489	FILTER	1
27	813490	HOUSING BULBSEAL	1
28	813506	VALVE, EXPANSION	1
29	813507	O-RING #4	1
30	813508	O-RING #8	1
31	813509	LOW PRESSURE SWITCH	1
32	813491	HEATER DUCT	1
	813367	1/4"-20 x1/2" BOLT	3
33	813339	LOUVER, FIXED VAIN	1
34	813492	LOUVER, ROUND 3"	2
35	813493	COVER, RECIRC FILTER	1
36	813494	RECIRCULATING FILTER	1
		-- EXTERNAL COMPONENTS NOT SHOWN --	
00	813461	HEATER CONTROL W/CABLE	1
	809165	KNOB ONLY	1
00	813495	DECAL, HEATER CONTROL	1
00	813496	HEATER HOSE (16 feet)	1
00	813497	SHUTOFF VALVE *(mounted on engine)*	1


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Ref. No.	Part No.	Description	Qty. Req.
00	813510	AIR CONDITIONER *(complete)*	1
01	813511	CONDENSER BASE PLATE	1
02	813512	CONDENSER TOP PLATE	1
03	813513	CONDENSER COIL PLATE	1
04	813514	CONDENSER FAN ASSEMBLY	2
05	813515	1/4”-20 x 1/2” BOLT	12
06	809181	FLAT WASHER 1/4”	12
07	809690	LOCK WASHER 1/4”	1
08	808545	1/4”-20 SERRATED FLANGE NUT	8
09	813516	CONDENSER COIL	1
10	813517	SHEET METAL SCREW	6
11	813518	CONDENSER WIRE HARNESS	1
	808892	RELAY *(not shown)*	1
		-- ITEMS NOT SHOWN --	
00		CONDENSER MOUNT	1
	813519	3-SECTION HIGH BOOM	
	813520	4-SECTION HIGH BOOM	
	813521	4-SECTION HIGH BOOM	

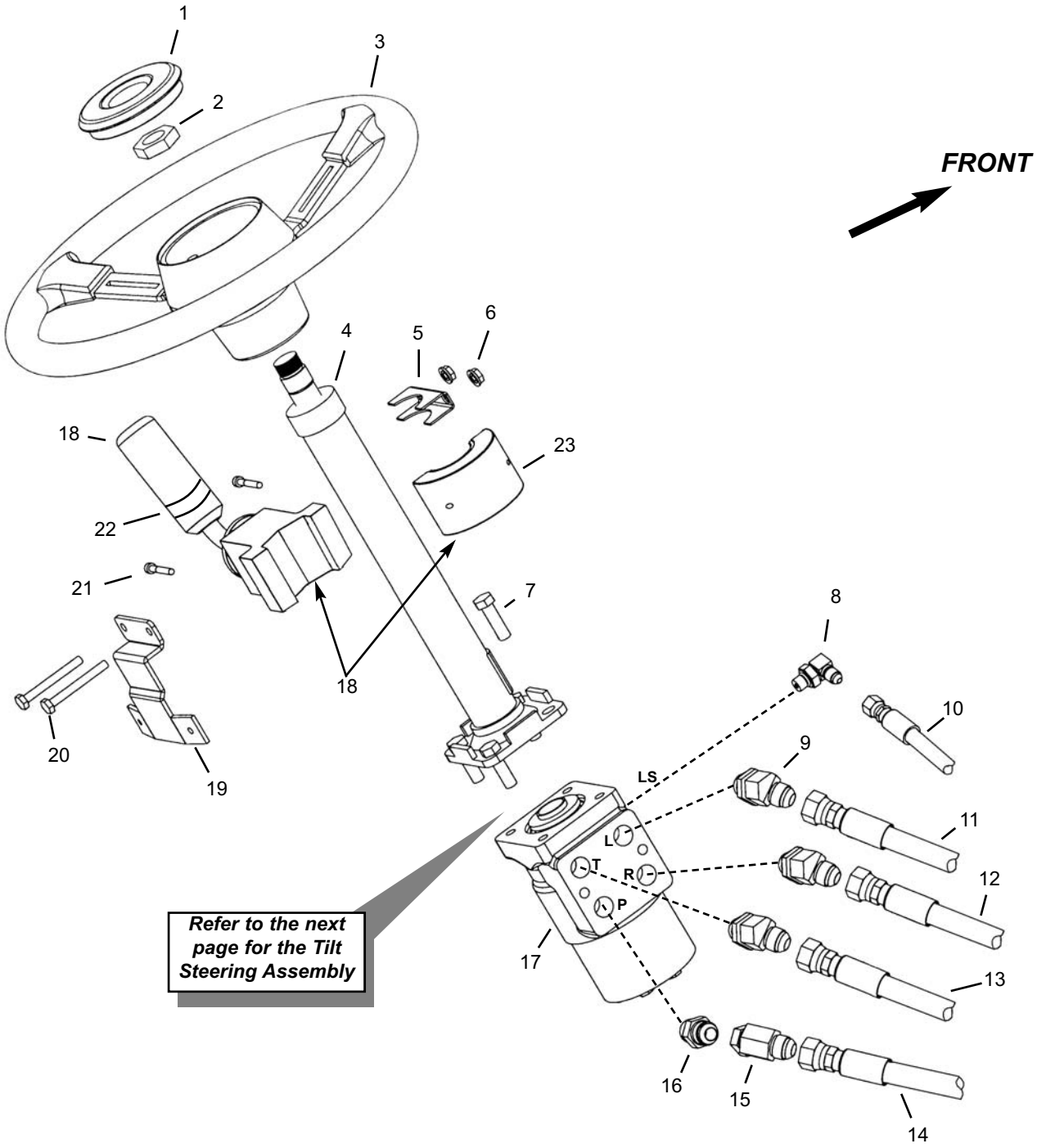
Air Conditioner - Hoses, Compressor and Dryer





Air Conditioner - Hoses, Compressor and Dryer

Ref. No.	Part No.	Description	Qty. Req.
01	813522	HOSE ASSEMBLY *(13/32")*	1
02	813523	HOSE ASSEMBLY *(5/16" X 102")*	1
03	813524	HOSE ASY, 5/16" x 72"	1
04	813525	HOSE ASY, 5/16" x 72"	1
05		HOSE ASSEMBLY	1
	813526	*(4-section low boom) 13/32" x 100".*	
	813527	*(high boom)13/32" x 66"*	
06		HOSE ASSEMBLY	1
	813528	*(4-section low boom) 5/16" X 100"*	
	813529	*(high boom) 5/16" X 66"*	
07	813530	DRYER MOUNT BRACKET	1
	813531	5/16"-18X1/2" BOLT	4
	808555	5/16"-18 NUT	2
08	813545	A/C DRYER	1
	813531	5/16"-18X1/2" BOLT	2
	808555	5/16"-18 FLANGE NUT	2
09	813532	BINARY SWITCH	1
10	813533	A/C WIRE HARNESS	1
11	813534	COMPRESSOR, A/C	1
12	813535	M8 x 90 10.9 BOLT	3
13	813536	BRACKET, AC COMPRESSOR	1
	813537	BUSHING, ALIGNMENT *(not shown)*	2
14	813538	BUSHING (SPACER)	1
15	813539	M10 x 90 10.9 BOLT	1
16	813540	M8 x 35 BOLT	1
17	813541	M8 NUT	1
18	813542	M8 x 90 10.9 BOLT	3
		-- ITEMS NOT SHOWN --	
00	813543	FAN BELT *(A/C equipped)*	1
00	813544	WIRE / COMPRESSOR ADAPTER	1

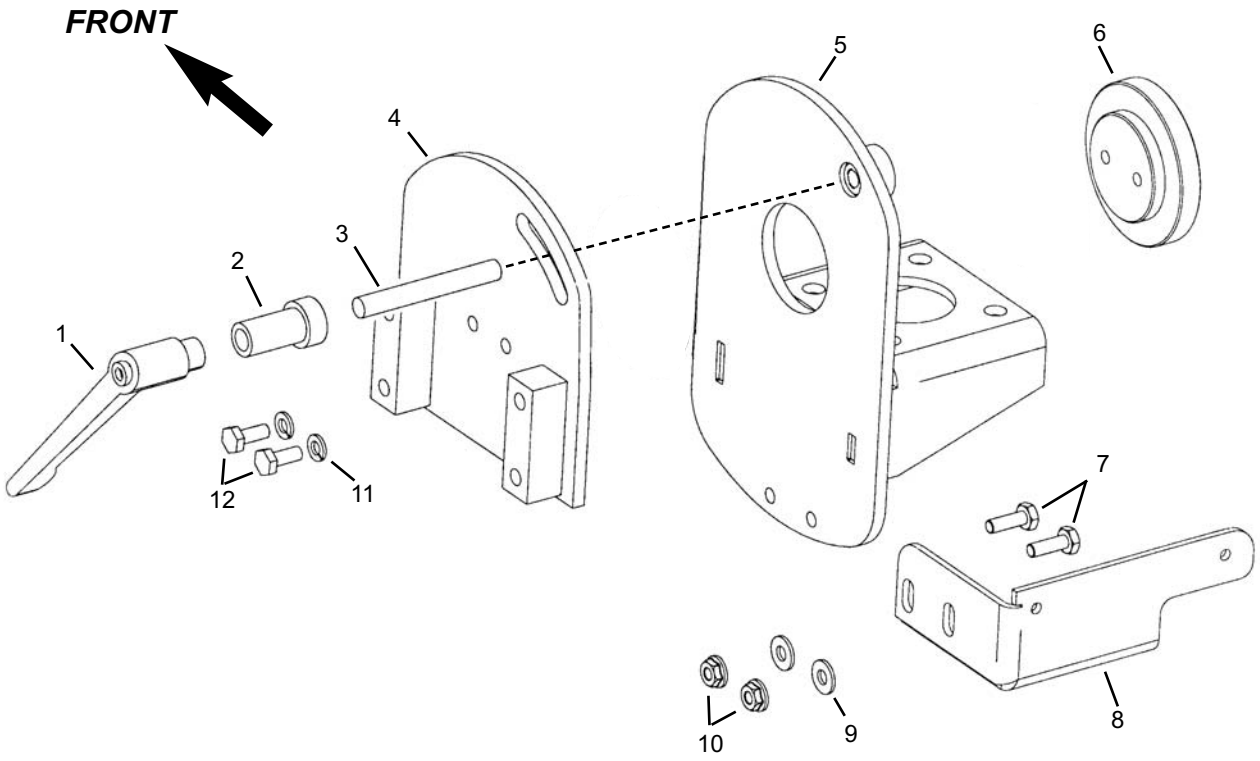

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Refer to the next page for the Tilt Steering Assembly

Ref. No.	Part No.	Description	Qty. Req.
01	813546	HORN BUTTON W/TRUMPET	1
02	808436	COLUMN NUT	1
03	809615	STEERING WHEEL	1
04	813547	STEERING COLUMN	1
05	813548	MUFFLER CLAMP BRACKET	1
06	808545	1/4”-20 FLANGE NUT	2
07	813549	3/8”-16 x 1-1/4” BUTTN HD BOLT	4
08	813550	ADAP., -4ORM -4JICM	1
09	813551	ADAP., -8ORM -8JICM 45 ELBOW	3
10	813562	HOSE, -4 A4/A6 100”	1
11	813563	HOSE, -6 A8/A6 108”	1
12	808885	HOSE, -6 A8/DS6 100”	1
13	813552	HOSE, -6 A8/A6 60”	1
14	813553	HOSE, -6 A8/DS8 88”	1
15	813554	ADAP., -8JICFS -8JICM SWVL	1
16	808763	CHECK VALVE	1
17	813555	STEER MOTOR ASY.	1
18	813556	F-N-R/1-2-3-4 SHIFTER *(includes item 23)*	1
	809130	BOOT, SHIFTER	1
19	813557	STEER COL. MT. BRACKET	1
20	813558	1/4”-20 x 2-1/4” BOLT	2
21	808586	M5 x 35 MM SHCS	2
22	813559	DECAL, SHIFTER 1-2-3-4	1
23	813560	SHIFTER CLAMP *(only)* *(included with item 18)*	1
		-- ITEMS NOT SHOWN --	
00	813561	HORN, 12VDC	1

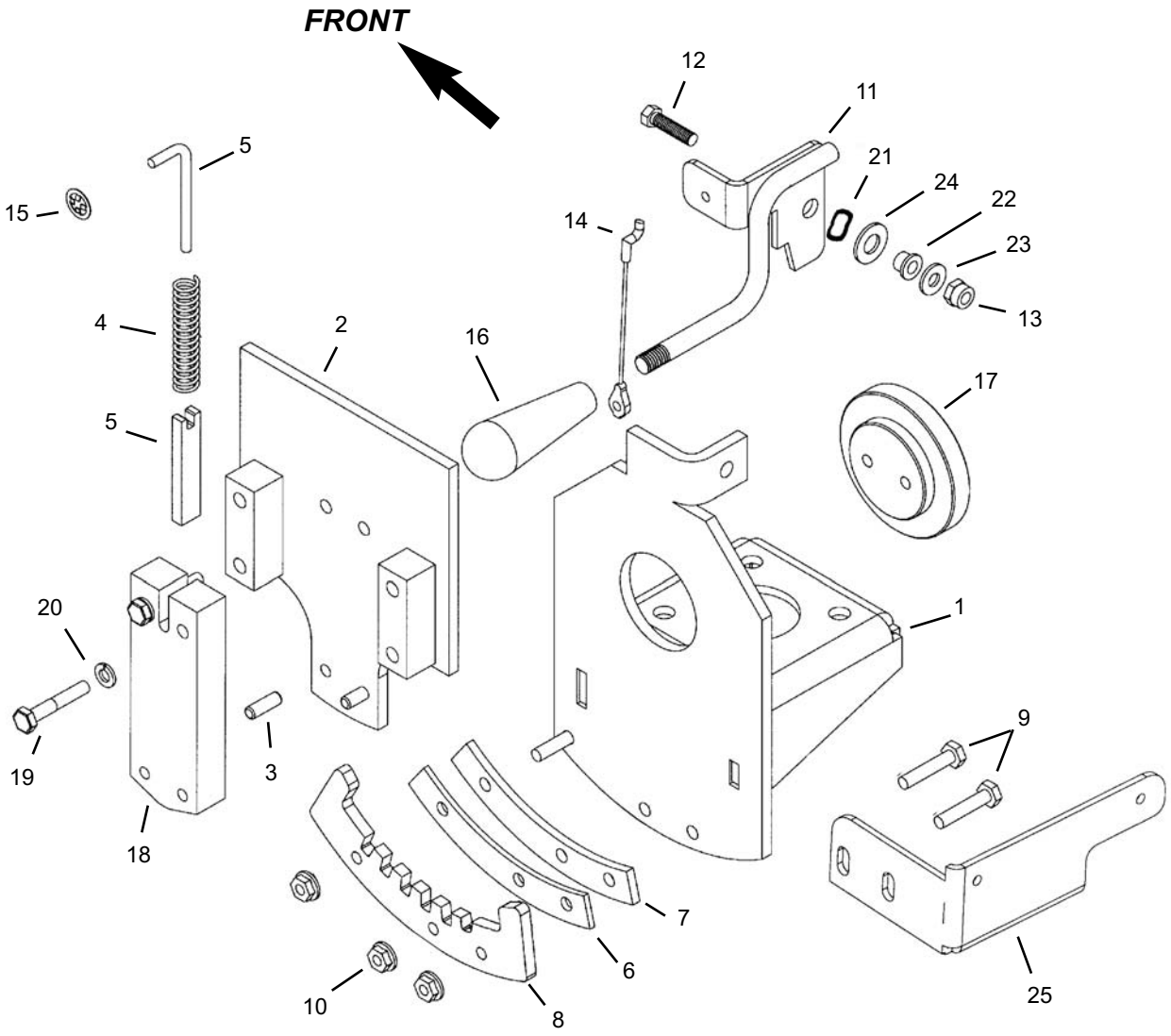
Hose Locator

Ref No.	From Port	To Port
10	STEER MOTOR “LS” (IN CAB)	LEVEL VALVE “LSB”
11	STEER MOTOR “L” (IN CAB)	STEER SELECT VALVE “P’
12	STEER MOTOR “R” (IN CAB)	STEER/BRAKE MANIFOLD (TOP RIGHT SIDE)
13	STEER MOTOR “T” (IN CAB)	HYDRAULIC TANK RETURN MANIFOLD
14	STEER MOTOR “P” (IN CAB)	HYDRAULIC PUMP *(Refer to item #32, hydraulic pump page)*

Steering Column - Tilt Assembly (Later Style)

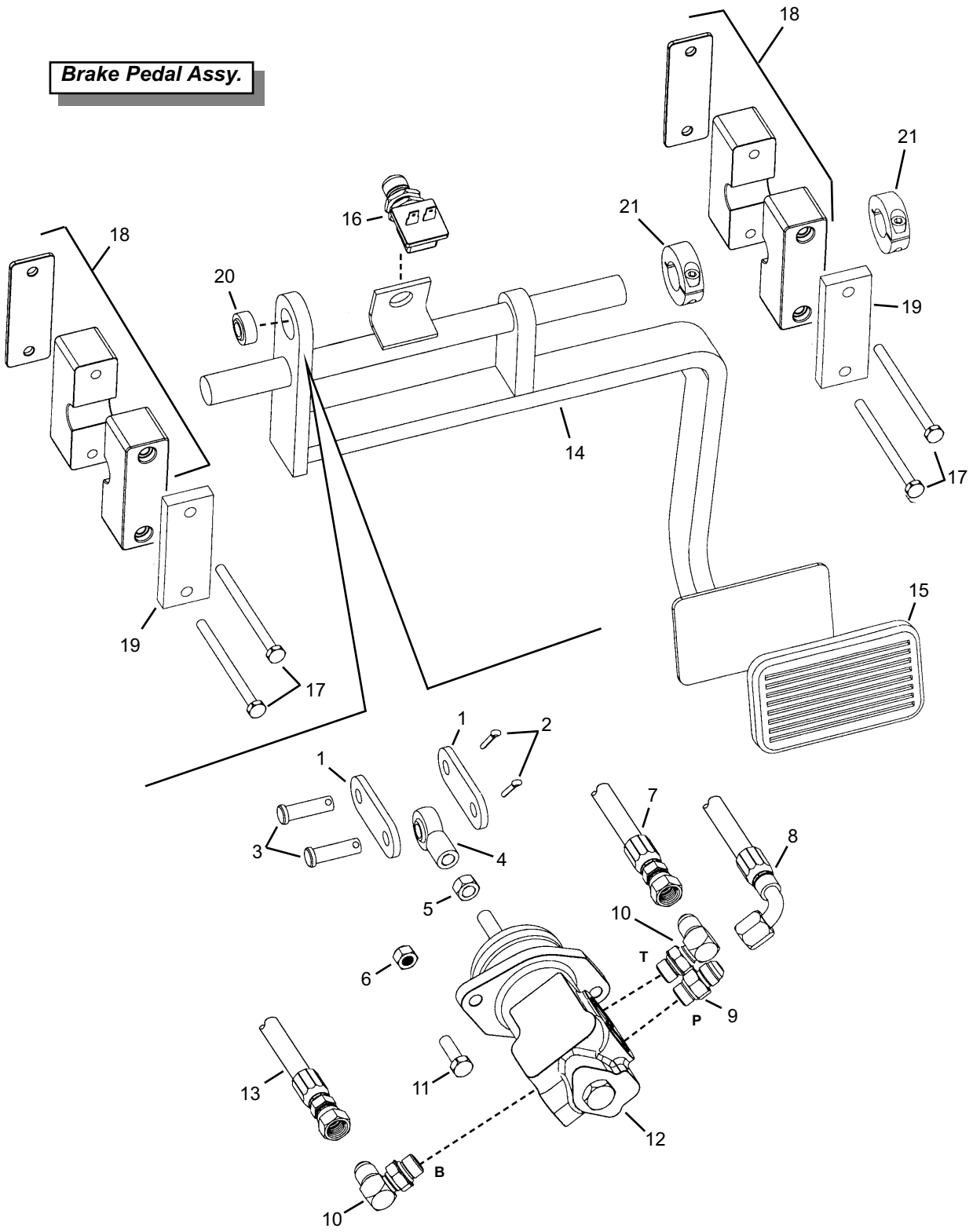


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	813564	HANDLE, QUICK-RELEASE	1	07	813570	1/4” x 3/4” BOLT	2
02	813565	COMPRESSION SLEEVE	1	08	813571	STEER BRACKET, REAR	1
03	813566	STUD, 3/8”-16 x 3”	1	09	809181	1/4” FLAT WASHER	2
04	813567	STEERING MOUNT	1	10	808545	1/4” WHIZ LOCK NUT	2
05	813568	STEER COLUMN MOUNT	1	11	809690	1/4” LOCK WASHER	2
06	813569	PIVOT	1	12	813386	1/4” x 5/8” BOLT	2



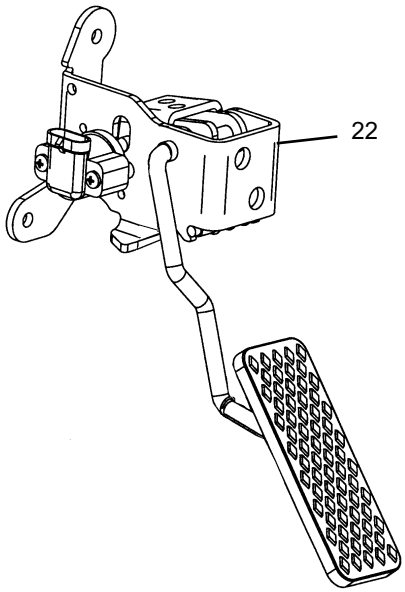
Ref. No.	Part No.	Description	Qty. Req.
01	813572	MOUNT WELDMENT	1
02	813573	STEERING MOUNT WELD.	1
	813574	3/8”-16 x 1” BOLT	4
03	813575	DOWEL	2
04	813576	COMPRESSION SPRING	1
05	813577	CATCH PIN WELD.	1
06	813578	SPACER 3/16”	1
07	813579	SPACER 1/16”	1
08[a]	813580	CATCH PLATE	1
09	813581	1/4”-20 x 1-1/4” BOLT	3
10	808545	1/4”-20 SERR. FLANGE NUT	3
11	813582	TILT LEVER WELD.	1
12	813581	1/4”-20 x 1-1/4”” BOLT	1
13	813583	1/4”-20 NYLON INSERT NUT	1
14	813584	TILT LEVER CABLE	1
15	813585	PUSH-ON RETAINER	1
16	813586	TILT HANDLE KNOB.	1
17	813587	PIVOT PIN	1
18	813588	PIN GUIDE	1
19	808413	1/4”-20 x 1-1/2” BOLT	2
20	808589	1/4” LOCK WASHER.	2
21	813589	WAVE SPRING	1
22	813590	NYLON SHOULDER WASHER	1
23	809181	1/4” WASHER	1
24	813591	3/8” WASHER	1
25	813571	BRACKET, LOWER PLASTIC.	1

a *Replaces two plates used on earlier units.*


Brake Pedal Assy.
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Pedals - Brake and Throttle

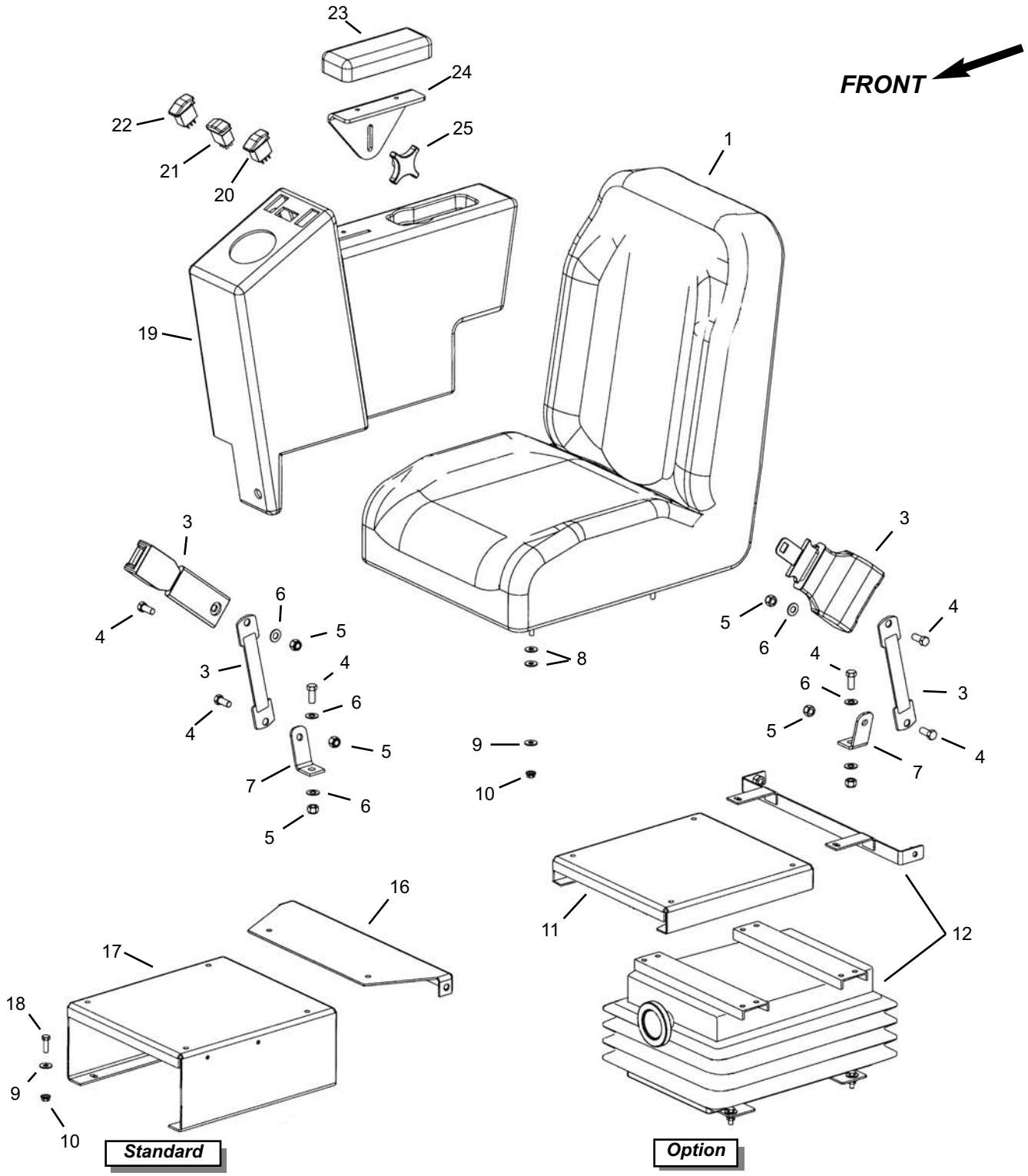
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	813592	LINK	2	12	813599	BRAKE MODULATING VALVE	1
02	813593	COTTER PIN 1/8” x 1”	2	13	813600	HOSE, -4 A6/A4 102”	1
03	813594	CLEVIS PIN 3/8” x 1-1/4”	2	14	813601	BRAKE LEVER WELD.	1
04	813595	ROD END 3/8”	1	15	813602	RUBBER PAD	1
05	808471	3/8”-24 NUT	1	16	809877	ELECTRIC SWITCH	1
06	808662	5/16”-18 NYLON INSERT NUT	2	17	809689	1/4”-20 x 3-1/2” BOLT	4
07	808883	HOSE, -4 A6/A6 81”	1	18	813603	CLAMP BLOCK AND PLATE	2
08	809773	HOSE, -4 A6/DS6 100”	1	19	813604	CLAMP SPACER	2
09	813596	ADAP., -6ORM -6JICM STR	1	20	813605	BUSHING	1
10	813597	ADAP., -6ORM -6JICM 90º	2	21	813606	LOCK COLLAR	2
11	813598	5/16”-18 x 1” BOLT	2	22	813607	FOOT PEDAL, ELECTRONIC	1



Electronic Throttle

Hose Locator

Ref No.	From Port	To Port
07	BRAKE MODULATING VALVE “T”	HYDRAULIC TANK RETURN MANIFOLD
08	BRAKE MODULATING VALVE “P”	SAHR VALVE “AO”
13	BRAKE MODULATING VALVE “B”	BRAKE MANIFOLD (BOTTOM PORT)

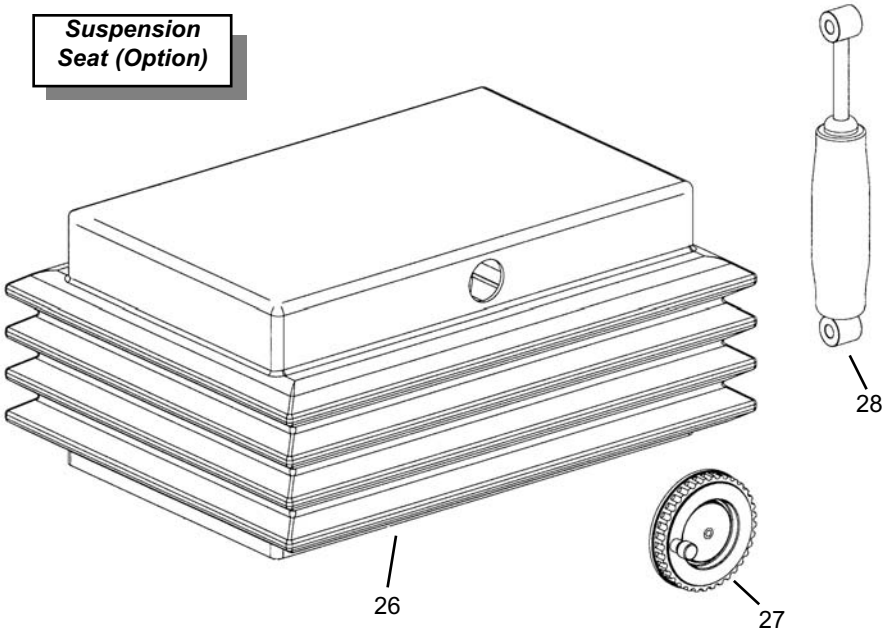

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Standard
Option

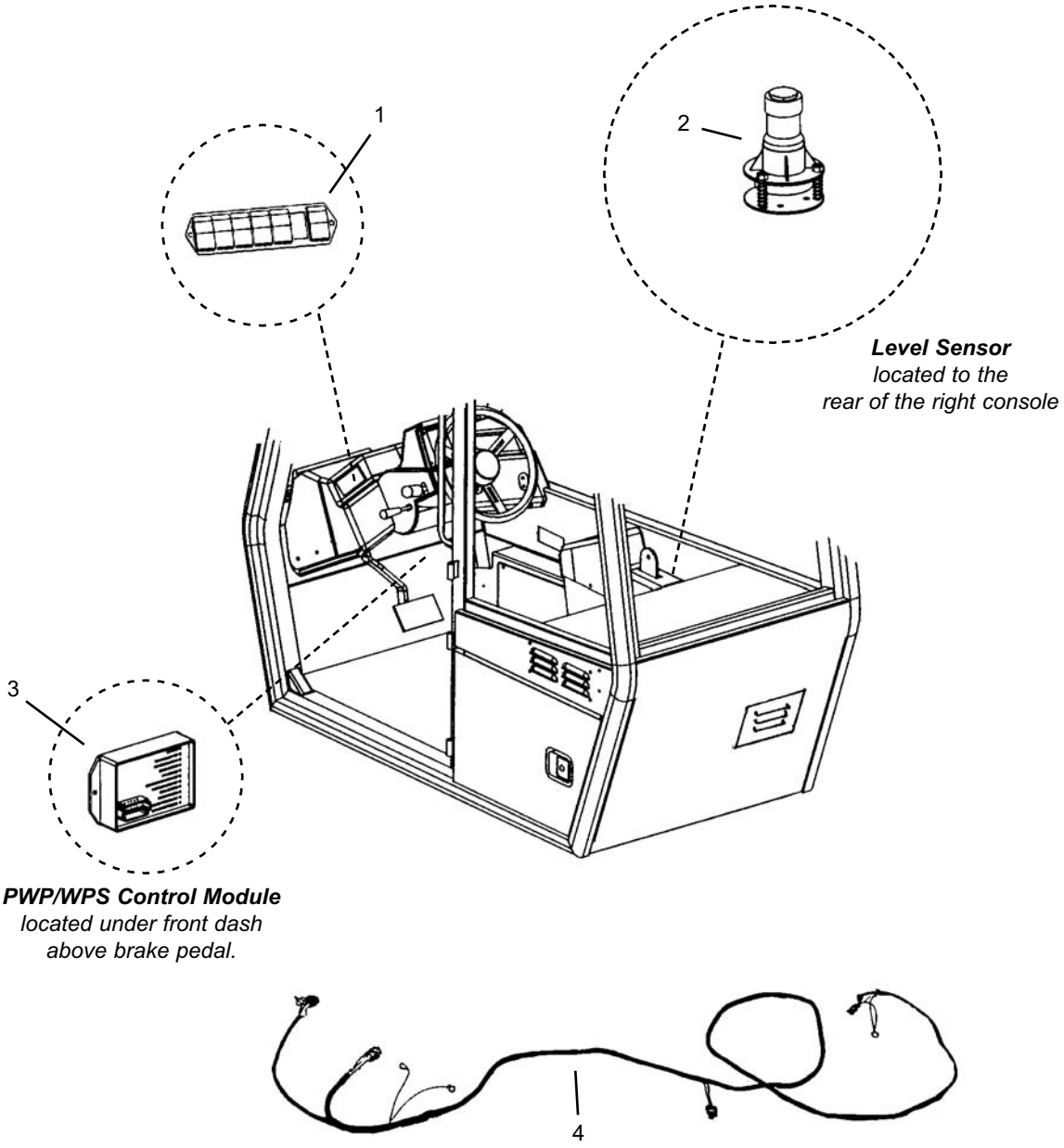
Ref. No.	Part No.	Description	Qty. Req.
01	813608	SEAT	1
03	808914	SEAT BELT *(includes tether straps)*	1
04	813609	7/16”-20 x 1” BOLT	AR
05	808625	7/16”-20 NYLON INSERT NUT	AR
06	808598	7/16” FLAT WASHER	AR
07	808899	TETHER BRACKET	2
08	813610	5/16” WASHER *(spacers)*	AR
09	813610	5/16” WASHER	4
10	808555	5/16”-18 SERR. FLANGE NUT	4
11	813611	SEAT EXTENSION	1
12[a]	808835	SUSPENSION BELLOWS *(option)* *(Includes items 26-28, and seat belt bracket as shown; does not include the seat.)*	1
16[b]	808898	SEAT BELT MOUNT *(standard)*	1
17	809195	SEAT RISER *(standard seat)*	1
18	813598	5/16”-18 x 1” BOLT	4
19	813451	RIGHT HAND CONSOLE	1
20[c]	813462	SWITCH OUTRIGGER *(left)*	1
21	813463	LEVEL SWITCH	1
22[c]	813464	SWITCH OUTRIGGER *(right)*	1
23	813612	ARM REST	1
	808600	1/4”-20 x 5/8” BUTTON HD BOLT	2
24	813613	ARM REST MOUNT BRACKET.	1
25	813614	KNOB.	1
	813357	3/8”-16 x 1” CARRIAGE BOLT	1
26[a]	813615	BELLOWS, SEAT *(boot only)*	1
27[a]	813616	ADJUSTMENT KNOB	1
28[a]	813617	SHOCK, SUSPENSION SEAT	1

-- ITEMS NOT SHOWN --

00	813467	DUAL RATE ALARM *(buzzer)*	1

a *Suspension seat (option)*
b *Standard seat*
c *Use 809694 Switch Hole-Plug when switch is not present.*





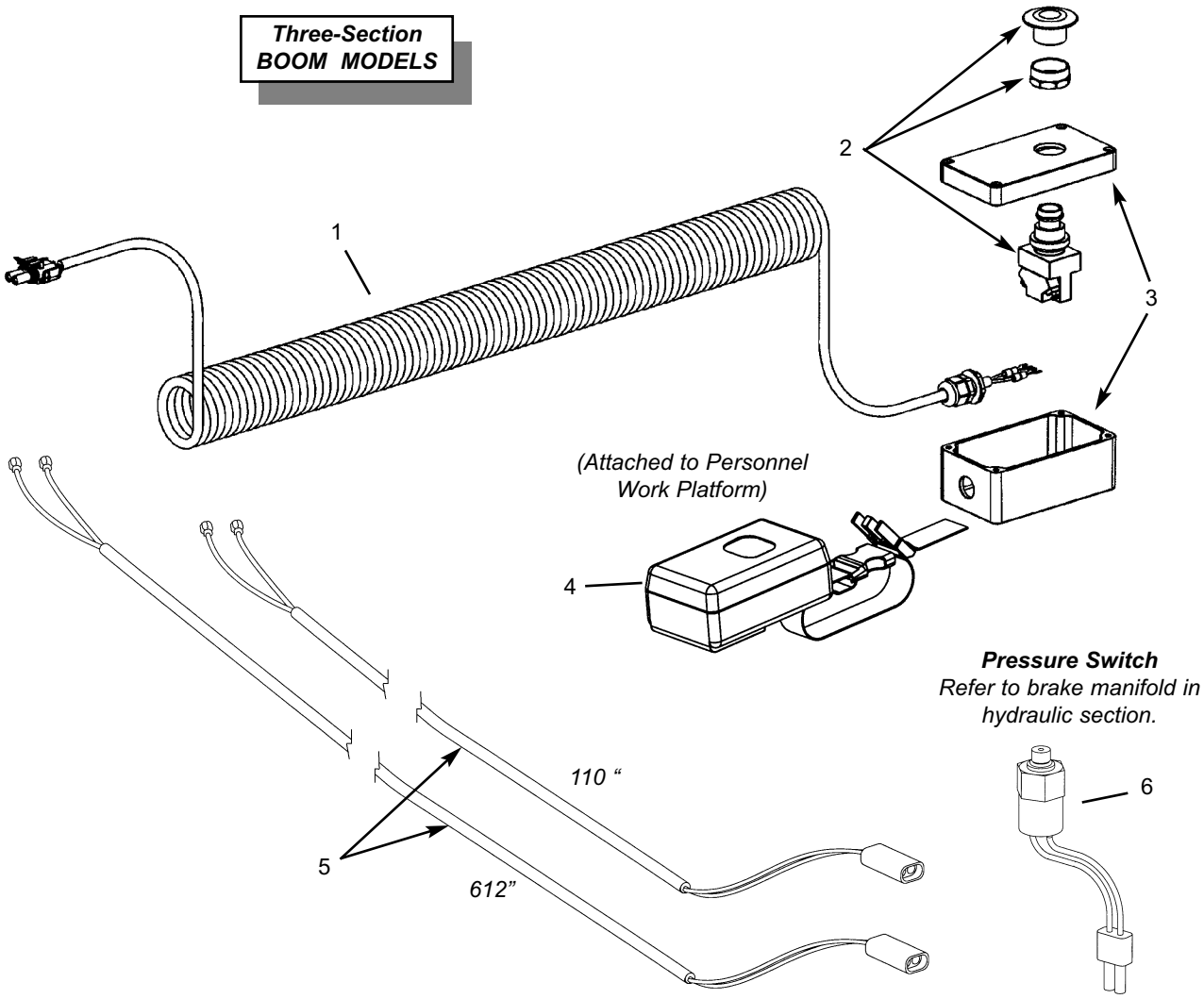
Level Sensor
located to the rear of the right console

PWP/WPS Control Module
located under front dash above brake pedal.

Ref. No.	Part No.	Description	Qty. Req.
01[a]	808938	WORK PLATFORM SWITCH	1
02	808935	LEVEL SENSOR	1
03	809770	CONTROL MODULE	1
04	813618	WIRE HARNESS	1

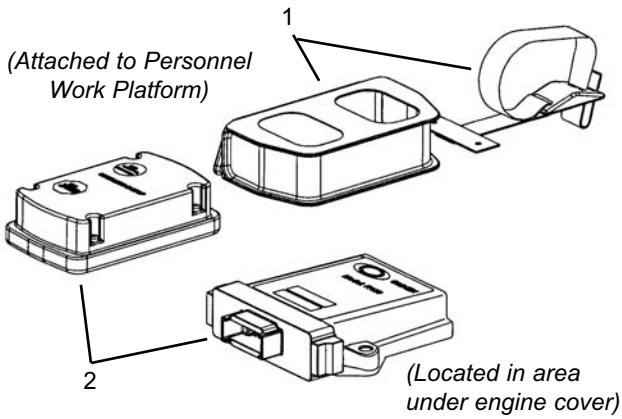
a *Use 813335 plug when not equipped with PWP .*

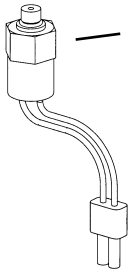
3-Section Boom Components



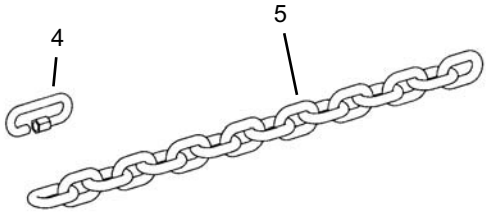
Ref. No.	Part No.	Description	Qty. Req.
00[a]	808942	REMOTE SWITCH W/CABLE. . . . . 1 *(Includes items 1-3)*	
01	808131	CABLE ASSEMBLY. 1	
02	808941	REMOTE STOP SWITCH 1	
03	808940	REMOTE SWITCH ENCLOSURE. . 1	
04	808944	REMOTE SWITCH POUCH 1	
05	808943	REMOTE SWITCH HARNESS . . . . 1 *(consists of two cables)*	
06	813620	PRESSURE SWITCH 1	

55' BOOM MODELS





Pressure Switch
Refer to brake manifold in hydraulic section.



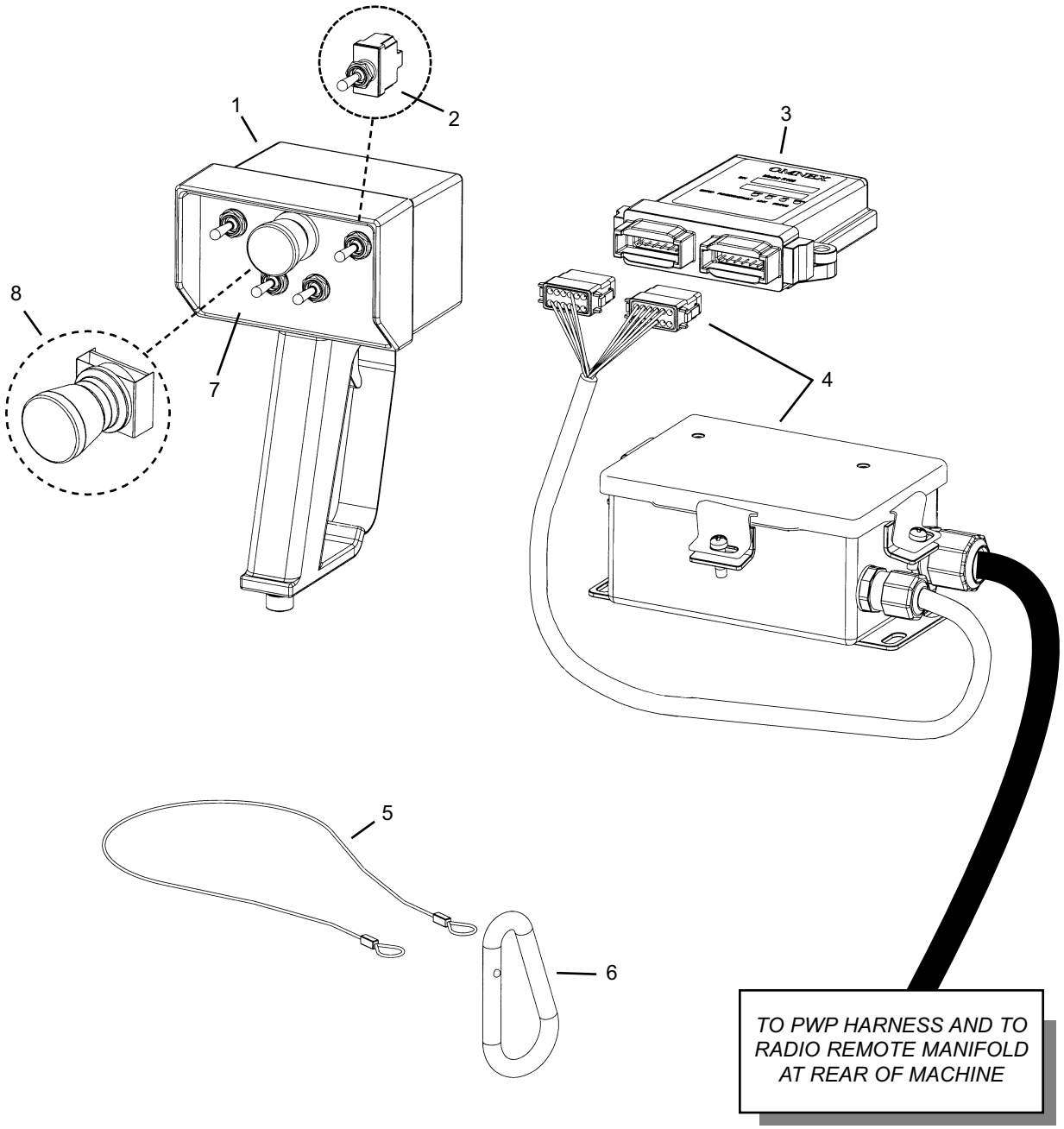
Chain and Shackle
Used to secure Personnel Work Platform on both three-section and four-section booms

Ref. No.	Part No.	Description	Qty. Req.
01	813620	WIRELESS SWITCH POUCH	1
02[a]	813621	RADIO REMOTE SYSTEM *(Transmitter and Receiver)*	1
03	813619	PRESSURE SWITCH	1
04[b]	808946	5/16" CHAIN SHACKLE	1
05[b]	808945	5/16" CHAIN GR40 16 LINKS	1

Ref. No.	Part No.	Description	Qty. Req.
		-- ITEMS NOT SHOWN --	
00	813622	RADIO REMOTE HARNESS *(E-Stop receiver)*	1

a *The transmitter and receiver are frequency matched, purchase both as a set.*

b *Chain shackle and chain are used for all applica tions to secure the Personnel Work Platform to the carriage bracket.*

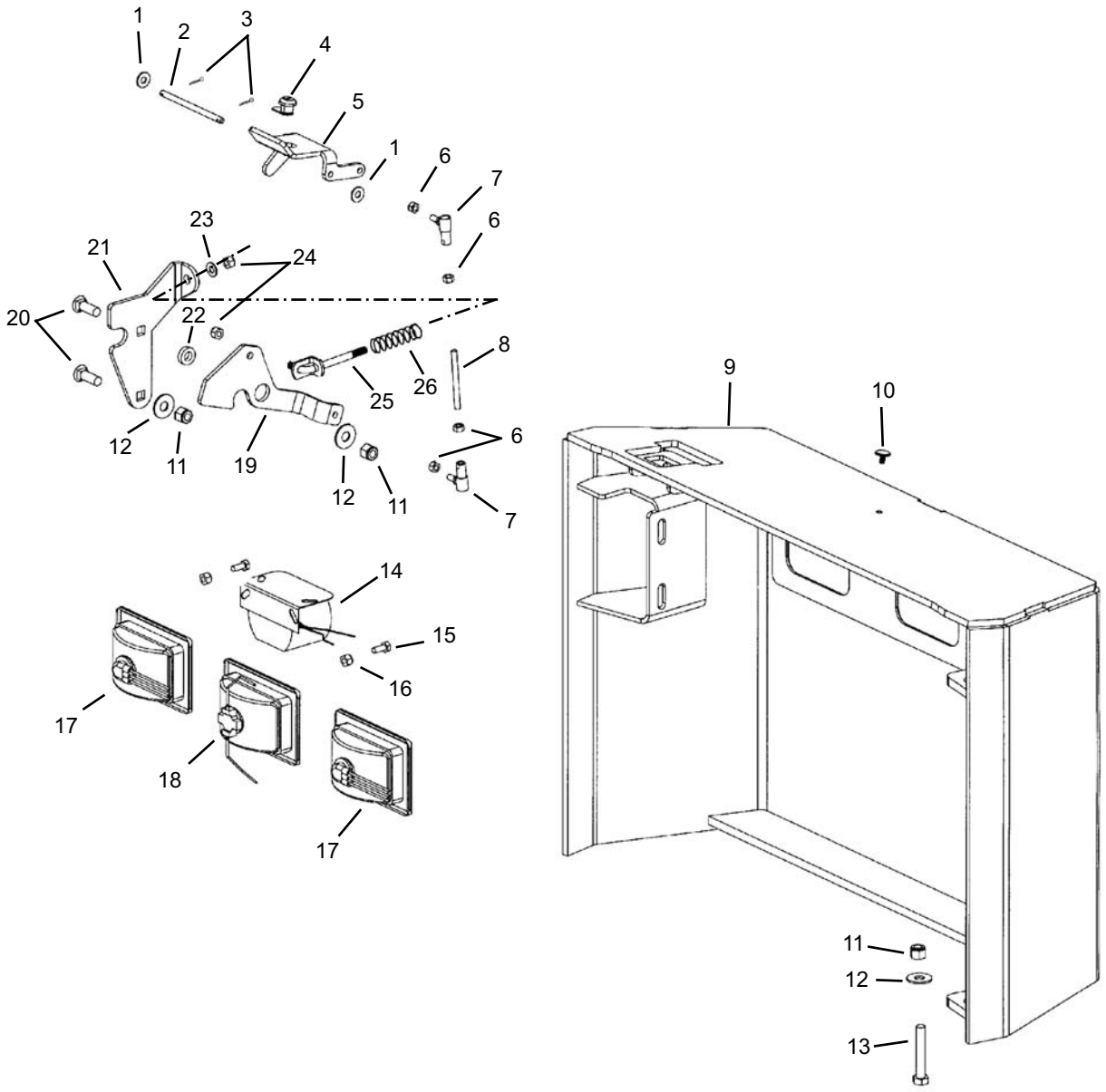

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TO PWP HARNESS AND TO RADIO REMOTE MANIFOLD AT REAR OF MACHINE

Ref. No.	Part No.	Description	Qty. Req.
00	809741	COMPLETE, RADIO REMOTE . . . . 1 *(includes all items shown)*	
01a	809726	REMOTE TRANSMITTER. 1	
02	809727	SWITCH, TOGGLE 3 POS. MIL . . . 4	
03	NSS	REMOTE RECEIVER 1	
04	NSS	ENCLOSURE / CIRCUIT BOARD. . 1	
05	809728	LANYARD *(wire cable)* 1	
06	809729	SNAP RING, LANYARD 1	
07	813625	LABEL 1	
08	813623	SWITCH, E-STOP *(push button)*. . . 1	

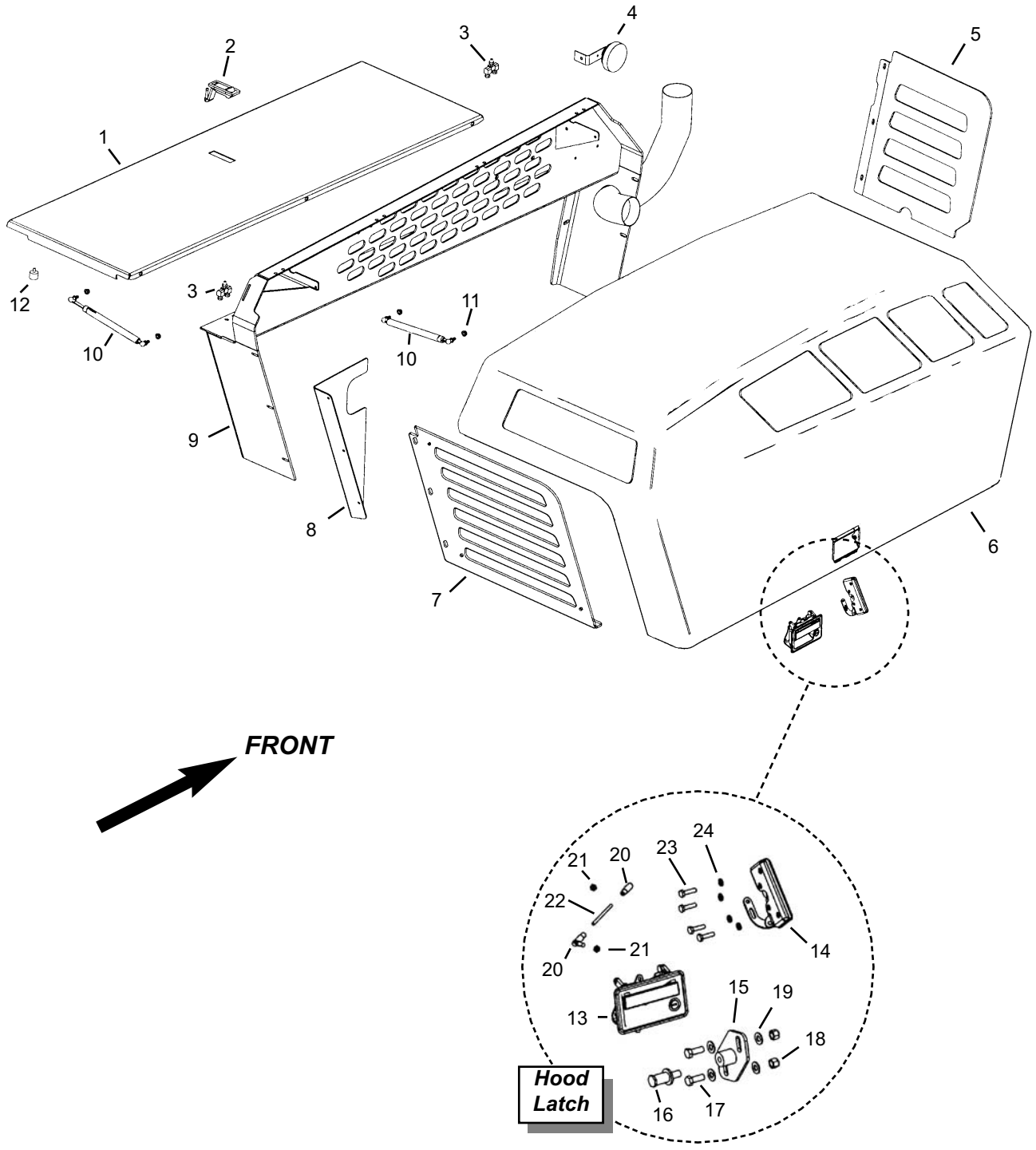
-- ITEMS NOT SHOWN --

Ref. No.	Part No.	Description	Qty. Req.
00	813624	WIRE HARNESS. . . . . 1 *(connects to existing PWP wire harness PN 104065)*	

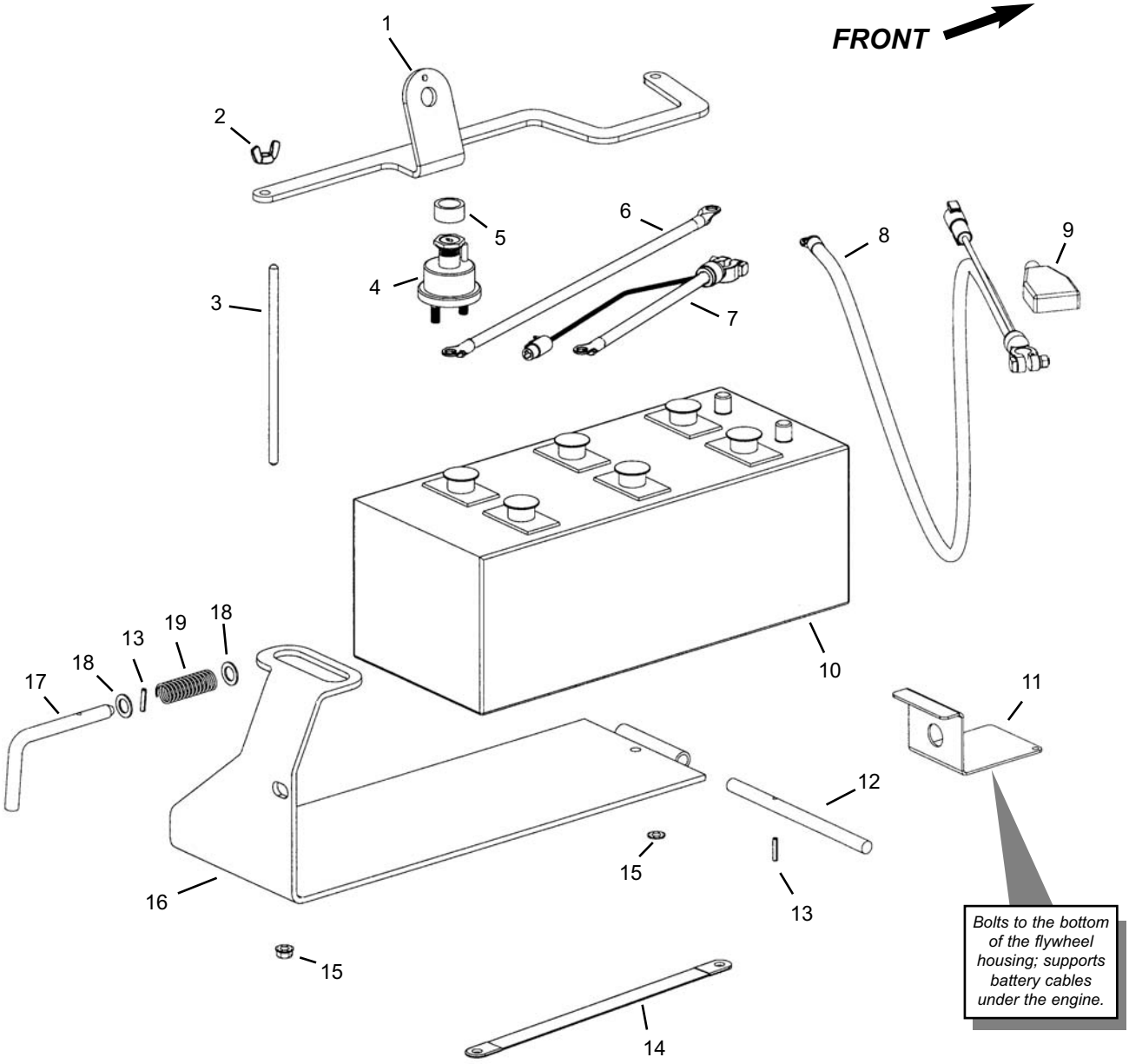
a *Requires programming; refer to "Radio Remote Operators manual," included with the Radio Remote Control system at the time of purchase.*


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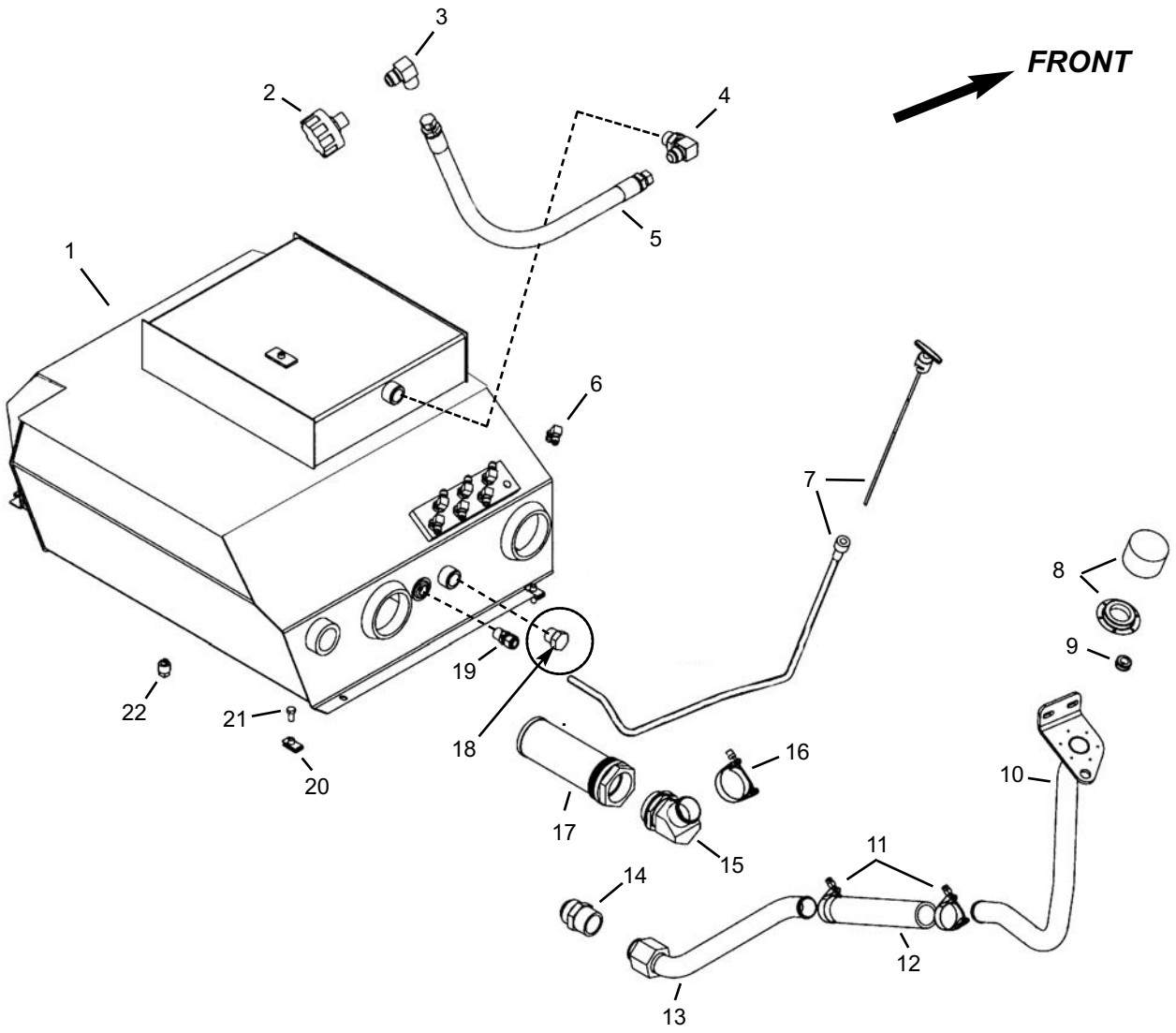
Ref. No.	Part No.	Description	Qty. Req.
01	813610	5/16” FLAT WASHER	2
02	813626	PIN	1
03	813593	1/8” x 1” COTTER PIN	2
04	808900	CAMLOCK	1
	809106	KEY ONLY (CH751)	1
05	813627	LATCH ASY. HANDLE	1
06	813628	5/16”-24 NUT	4
07	813629	5/16”-24 BALL JOINT	2
08	813630	LINKAGE ROD	1
09	813631	REAR DOOR	1
10	813632	PLUG, REAR HOOD	1
11	808665	1/2”-13 NYLON INSERT NUT	3
12	813337	1/2” FLAT WASHER	3
13	813633	1/2”-13 x 3” BOLT	1
14	813634	BACKUP ALARM	1
15	808498	5/16”-18X3/4” BOLT	2
16	808555	5/16”-18 FLARE NUT	2
17	808919	TAIL LIGHT W CONNECTOR	2
	808505	RUBBER MOUNTING BEZEL	2
18L	808936	BACKUP LIGHT	1
	808558	RUBBER MOUNTING BEZEL	1
	808078	JUMPER - BACKUP LIGHT	1
19	813635	LATCH	1
	809106	KEY ONLY (CH751)	1
20	813636	1/2”-13 x 1-1/2” CARRIAGE. BOLT	2
21	813637	LATCH MOUNT	1
22	813638	BUSHING	1
23	813591	3/8” FLAT WASHER	1
24	808663	3/8”-16 NYLON INSERT NUT	2
25	813639	LATCH ROD ASY	1
26	813640	COMPRESSION SPRING	1
		-- ITEMS NOT SHOW --	
00	813373	SINGLE DIODE	AR
		(located in the wire harness near tail lights)	


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Ref. No.	Part No.	Description	Qty. Req.
01	813641	TRANSMISSION COVER	1
02	813642	LATCH - TRANSMISSION COVER	1
	809106	KEY ONLY (CH751) *(sold in pairs)*	1
03	813643	HINGE	7
04	813561	HORN	1
05	813644	END PANEL, FRONT	1
	808555	5/16” WHIZ LOCK NUT	3
	813645	5/16” x 1” CARRIAGE BOLT	3
06	813646	ENGINE COVER HOOD	1
07	813647	END PANEL, REAR	1
	808555	5/16” WHIZ LOCK NUT	3
	813645	5/16” x 1” CARRIAGE BOLT	3
08	813648	BAFFLE, REAR	1
09	813649	ENGINE COVER MOUNT	1
10	813650	GAS SPRING	3
	813651	STUD, BALL	AR
11	808555	5/16”-18 FLARE NUT	AR
12	813652	RUBBER BUMPER	2
13	813653	HANDLE-PADDLE, W/KEY	1
	809106	KEY ONLY (CH751)*(sold in pairs)*	1
14	813654	LATCH	1
15	813655	STRIKER MOUNT	1
16	808086	STRIKER-HOOD	1
17	813574	3/8” x 1” BOLT	2
18	813656	3/8” NYLON INSERT NUT	2
19	813657	3/8” FLAT WASHER	4
20	813658	BALL JOINT, #10-32 ROD END	2
21	813659	NUT, #10-32 HEX	2
22	813660	ROD-LINKAGE	1
23	813661	1/4” x 1” BOLT	4
24	809690	1/4” LOCK WASHER	4


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Bolts to the bottom of the flywheel housing; supports battery cables under the engine.

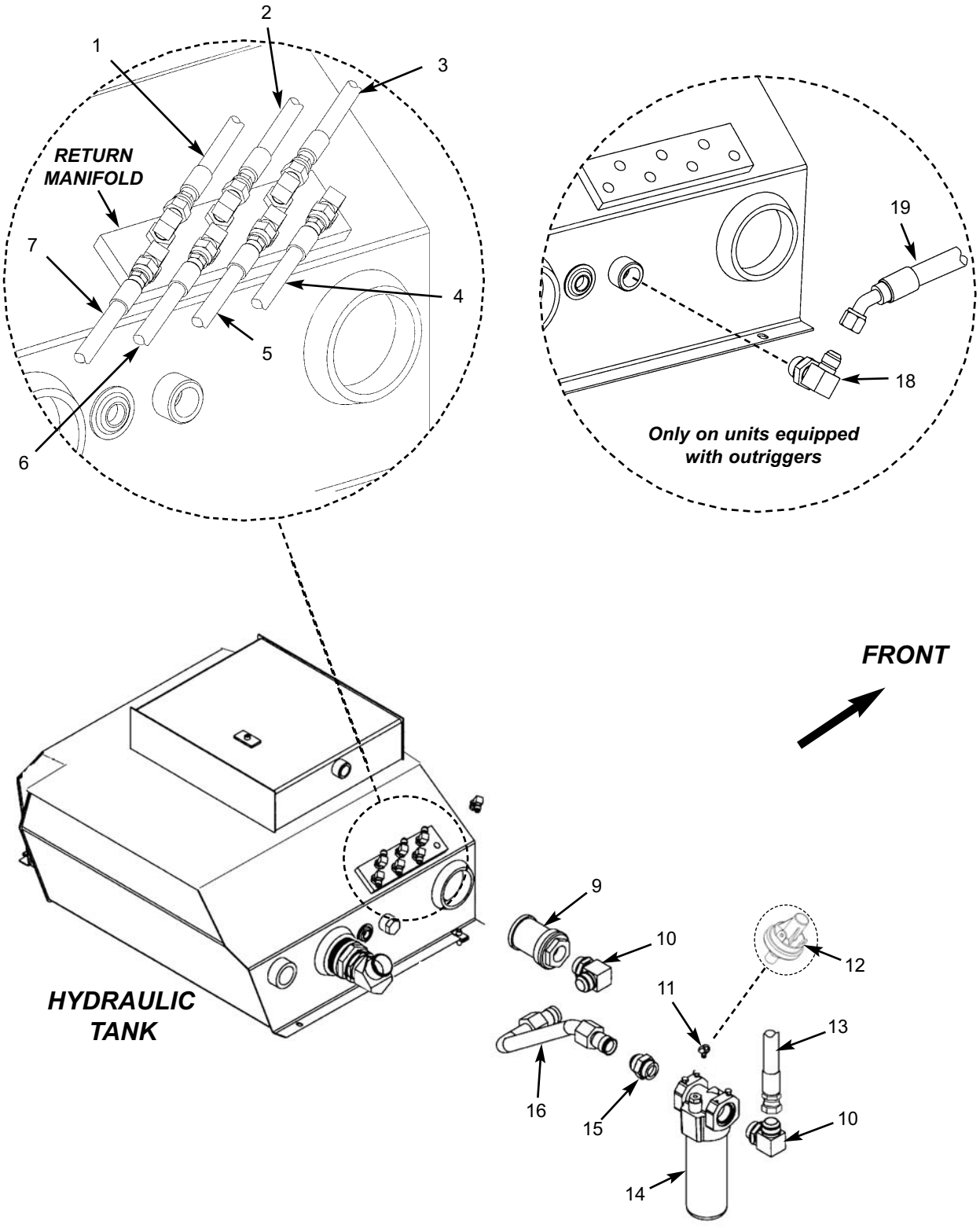
Ref. No.	Part No.	Description	Qty. Req.
01	814678	BATTERY HOLD DOWN	1
02	814679	3/8”-16 WING NUT	2
03	808896	HOLD DOWN ROD	2
04	814680	MASTER DISCONNECT SWITCH	1
	809876	KEY	1
05	814681	SPACER	1
06	814682	NEG. BATTERY CABLE, 52”	1
07	814683	NEG. BATTERY CABLE, 12”	1
	809295	POWER PLUG *(male end)*	1
	809296	#8 DEUTCH SOCKET	1
08	814684	POS. BATTERY CABLE 34”	1
	809294	POWER PLUG *(female end)*	1
	809297	#8 DEUTCH PIN	1
09	809507	RUBBER BOOT	1
10	NSS	BATTERY 12 V BCI NO. 4DLT	1
11	814685	BRACKET, CABLE SUPPORT	1
12	814686	TRAY HINGE *(pin)*	1
13	808632	ROLL PIN 0.19” x 1”	2
14	808707	GROUND STRAP 14GA. 14”	1
15	808471	3/8”-16 FLARE NUT	AR
16	814687	BATTERY TRAY WELD.	1
17	814688	BATTERY LEVER ROD.	1
18	814689	5/8” FLAT WASHER	2
19	814690	SPRING, BATTERY LEVER	1
		-- ITEMS NOT SHOWN --	
00	814691	VINYL CLAMP *(secures battery cable)*	2


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Hydraulic Tank Group (Part 1 of 2)

Ref. No.	Part No.	Description	Qty. Req.
01	813662	HYDRAULIC TANK WELDMENT	1
02	813321	TANK BREATHER	1
03	813663	ADAP., -12JICM -12NPTM 90º	1
04	813664	ADAP., -12ORM -12JICM 90º	1
05	813665	HOSE, -10 -12JFX - 12JFX 31”	1
06	813597	ADAP., -6ORM -6JICM 90º	7
07	813666	DIPSTICK, HYDRAULIC OIL	1
08	809878	FILLER CAP ASSEMBLY	1
	813667	GASKET	1
09	808718	DIPSTICK HOUSING GROMMET	1
10	813668	HYD. OIL FILL TUBE, WELDMENT	1
11	813669	2” T-BOLT BAND CLAMP	2
12	813670	HOSE, -24 x 31”	1
13	813671	HYDRAULIC PIPE	1
14	809386	ADAP., -24NPTM -24JICM STR	1
15	813672	ADAP., -32ORM -32HBARB 45º	1
16	813673	2-1/2” T-BOLT BAND CLAMP	1
17	813674	SUCTION STRAINER	1
18[a]	813675	PLUG -12ORM	1
19	813676	SWAGELOK CONNECTOR	1
20	808793	3/8”-16 CLIP RETAINING NUT	4
21	813677	3/8”-16 x 3/4” BOLT	4
22	813678	1/2”-14 MAGNETIC PLUG	1

a *Use PN 072615 -12ORM -10JICM 90º elbow adapter when equipped with outriggers.*


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RETURN MANIFOLD
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Only on units equipped with outriggers
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HYDRAULIC TANK
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Hydraulic Tank Group (Part 2 of 2)

Ref. No.	Part No.	Description	Qty. Req.
01	813552	HOSE, -6 A6/A8 60”	1
02	808883	HOSE, -4 A6/A6 81”	1
03	808884	HOSE, -4 A6/A6 25”	1
04	813679	HOSE, -4 A6/A6 40”	1
05	813680	HOSE, -4 A6/DS6 84”	1
06	813681	HOSE, -6 A6/A6 50”	1
07	808884	HOSE, -4 A6/A6 25”	1
09	813682	TANK DIFFUSER	1
10	813683	ADAP., -20ORM -20JICM 90º	2
11	813684	ADAP 1/8NPTM 1/8NPTF 45º	1
12	813685	RESTRICTION SWITCH *(included with item 14)*	1
13	813686	HOSE, -16 A16/A20 30”	1
14[ac]	813687	RETURN FILTER KIT	1
	809885	HYD. FILTER CARTRIDGE	1
	813688	O-RING	1
15	813689	ADAP., -20ORM -20JICM STR	1
16	813690	TUBE, FILTER TO TANK.	1
18[b]	813691	ADAP., -12ORM -10JICM 90º	1
19[b]	813692	HOSE, -12 A12/NS10 51”.	1

a *Return filter includes housing (809885), filter cartridge (813688), o-ring, and switch (813685).*

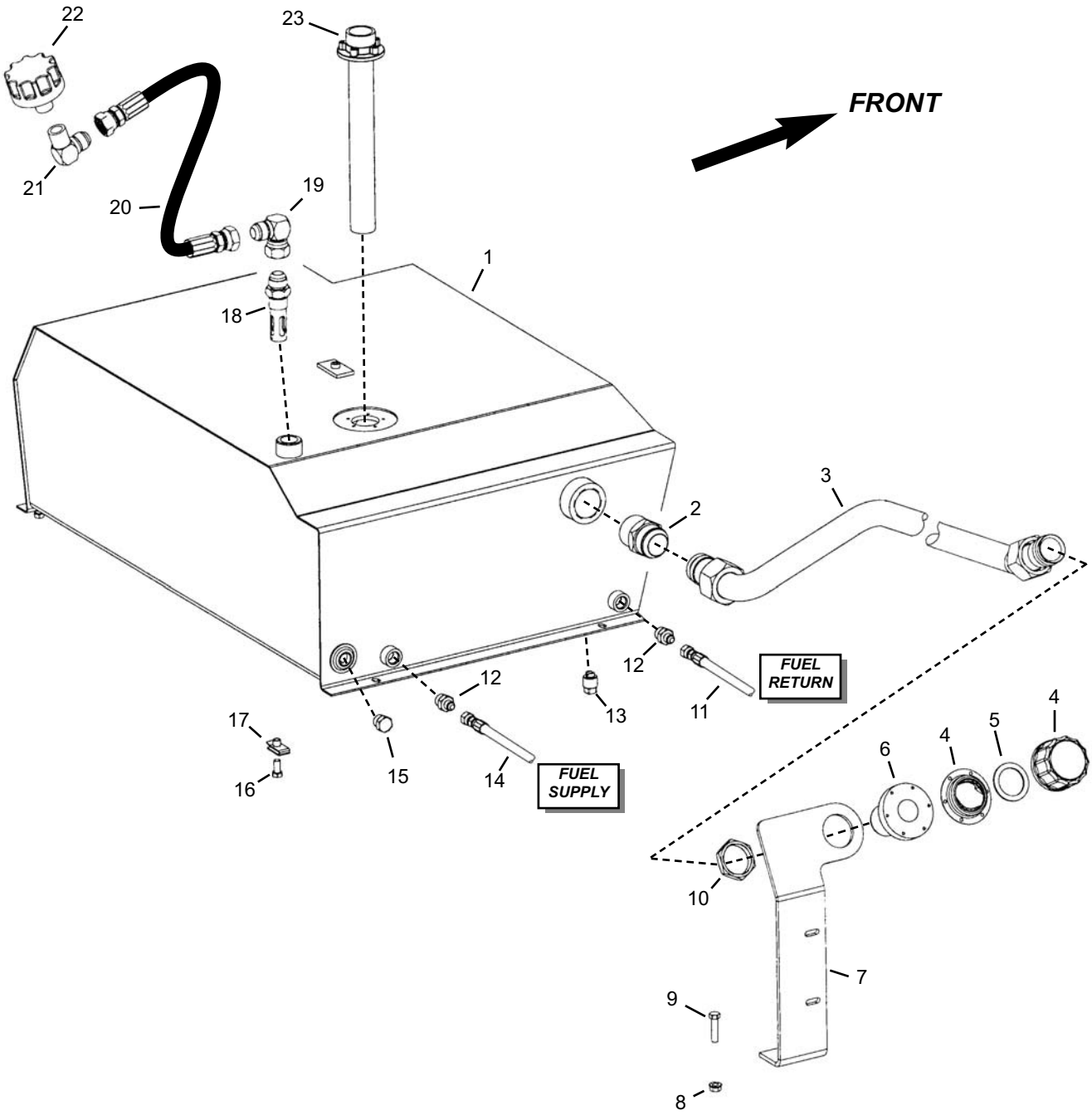
b *Used on units equipped with outriggers.*

c *Kit consists of the housing, filter cartridge, o-ring, and item #12 restriction switch.*

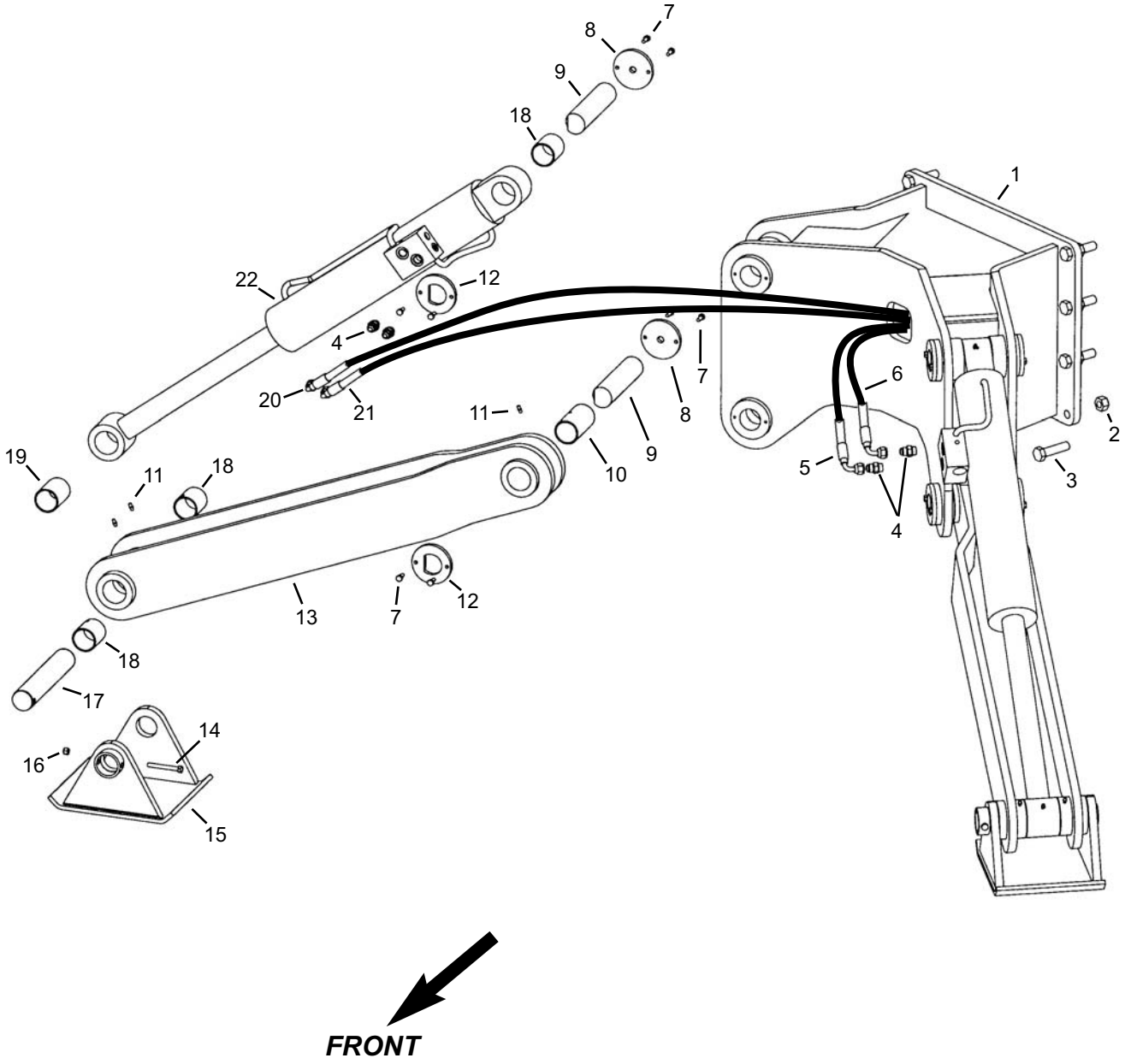
Hose Locator

Ref No.	From Port	To Port
01	STEER MOTOR “T” (IN CAB)	HYDRAULIC TANK RETURN MANIFOLD
02	BRAKE VALVE “T” (IN CAB)	HYDRAULIC TANK RETURN MANIFOLD
03	JOYSTICK “T” (IN CAB)	HYDRAULIC TANK RETURN MANIFOLD
04	FLOW DIVIDER “T” (ON HYD. PUMP)	HYDRAULIC TANK RETURN MANIFOLD
05	BULKHEAD TEE (ABOVE VALVE)	HYDRAULIC TANK RETURN MANIFOLD
06	LEVEL VALVE “T”	HYDRAULIC TANK RETURN MANIFOLD
07	SAHR “T”	HYDRAULIC TANK RETURN MANIFOLD
13	COLD-START VALVE (FRONT/LOWER PORT)	HYDRAULIC RETURN FILTER
19*	HYDRAULIC TANK	V20 VALVE “OUT”

** Used only on units equipped with outriggers.*


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FUEL SUPPLY
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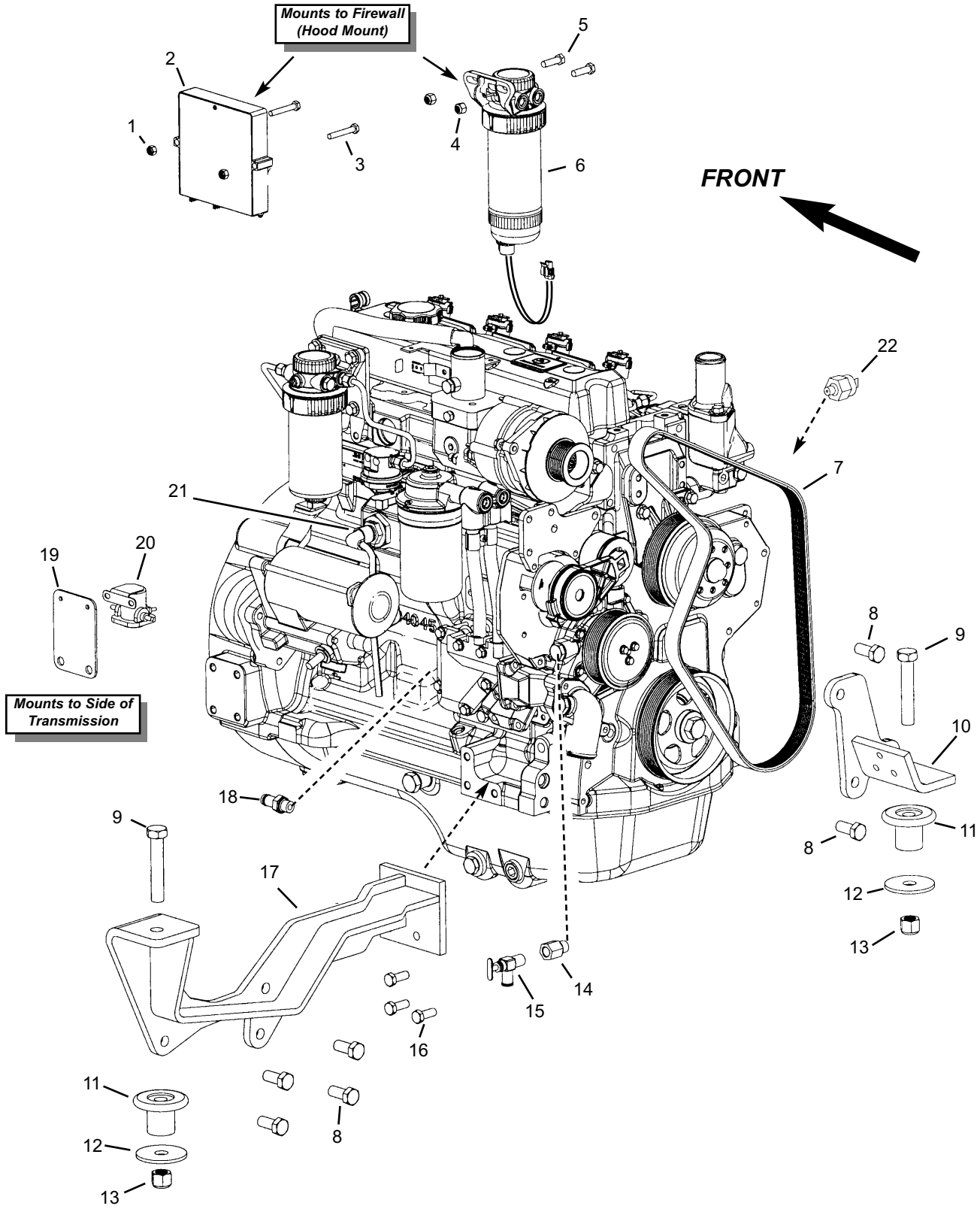
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	813693	FUEL TANK	1	13	813678	1/2-14 MAGNETIC PLUG	1
02	809386	ADAP., -24NPTM -24JICM STR	1	14	813701	HOSE, -6 A6/A5 56” FUEL LINE	1
03	813694	FUEL FILL TUBE	1	15	813702	PLUG, 1/2” NPT	1
04	809878	FILLER CAP ASSEMBLY	1	16	813677	3/8”-16 x 3/4” BOLT	4
05	813667	GASKET	1	17	808793	3/8”-16 CLIP RETAINING NUT	4
06	813695	FILLER CAP MOUNT	1	18	813703	BREATHER VALVE ASSEMBLY	1
07	813696	FUEL FILL MOUNT	1	19	813704	ADAP., -12JICFS -12JICM 90º	1
08	808471	3/8”-16 FLARE NUT	1	20	813705	BREATHER HOSE	1
09	813697	3/8”-16 x 1-1/2” BOLT	1	21	813663	ADAP., -12JICM -12NPTM 90º	1
10	813698	1-7/8”-12 JAM NUT	1	22	813321	TANK BREATHER	1
11	813699	HOSE-4 A6 100” FUEL LINE	1	23	813706	SENDER, FUEL 11” DEPTH	1
12	813700	ADAP., -8ORM -6JICM STR	2				


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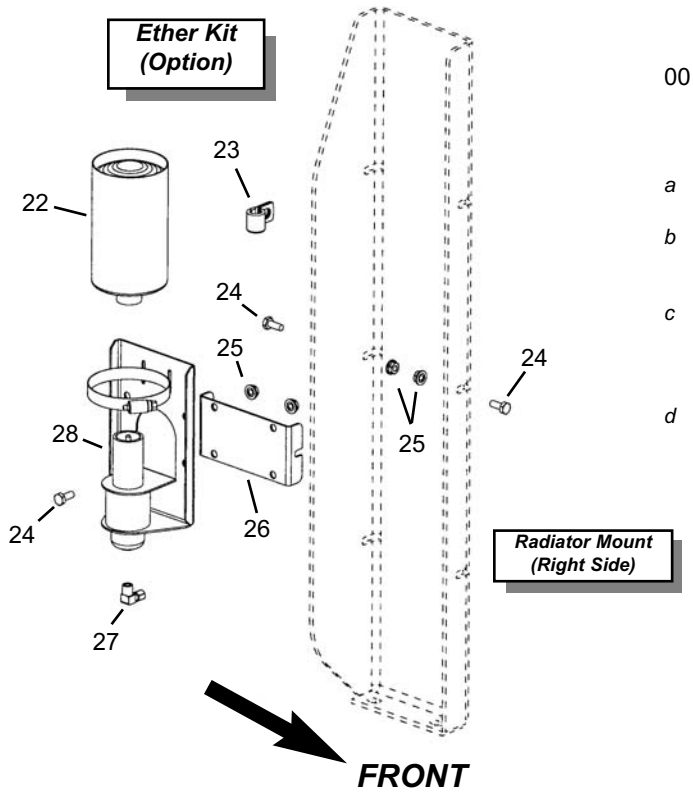
Ref. No.	Part No.	Description	Qty. Req.
01	813707	OUTRIGGER FRAME WLDMNT	1
02	808583	3/4”-10 STOVER LOCK NUT	8
03	808620	3/4”-10 x 3” GR8 BOLT	8
04	813708	ADAP., -8ORM -8JICM STR	4
05	813709	HOSE, -6 DS8/A8 68”	1
06	813710	HOSE, -6 DS8/A8 70”	1
07	808498	5/16”-18 x 3/4” BOLT	16
08	808873	PIVOT PIN CAP	4
09	808912	PIVOT PIN LEG/CYLINDER	4
10	808908	BRONZE BUSHING	2
11	808424	ZERK 1/4”-28 STR	8
12L	808874	LOCK PIN CAP	4
13	808909	OUTRIGGER LEG WELDMENT	2
14	813711	3/8”-16 x 3” BOLT	2
15	808783	OUTRIGGER LEG PAD WLDMNT	2
16	808663	3/8”-16 NYLON INSERT NUT	2
17	808784	LEG AND CYLINDER PIN.	2
18	808858	BRONZE BUSHING	6
19	808911	BRONZE BUSHING (CYLINDER).	2
20	813709	HOSE, -6 DS8/A8 68”	1
21	813710	HOSE, -6 DS8/A8 70”	1
22	808910	OUTRIGGER CYLINDER	2

Hose Locator

Ref No.	From Port	To Port
05	LEFT CYLINDER LOWER PORT	OUTRIGGER PILOT MANIFOLD PORT “4”
06	LEFT CYLINDER UPPER PORT	OUTRIGGER PILOT MANIFOLD PORT “3”
20	RIGHT CYLINDER UPPER PORT	OUTRIGGER PILOT MANIFOLD PORT “2”
21	RIGHT CYLINDER LOWER PORT	OUTRIGGER PILOT MANIFOLD PORT “1”


Mounts to Firewall (Hood Mount)
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Mounts to Side of Transmission
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Ref. No.	Part No.	Description	Qty. Req.
01	808663	5/16” NYLON INSRT LOCKNUT	2
02[a]	NSS	ECU	1
03	813712	5/16”X2” BOLT	2
04	808662	3/8” NYLON INSERT LOCKNUT	2
05	813713	3/8”X1-1/4” BOLT	2
06[b]	NSS	PRIMARY FUEL FILTER ASSY. *(refer to filter section)*	1
	813714	ADAP., -5JICM -2MP	1
07		FAN BELT	1
	813715	*(without air conditioning)*	
	813543	*(with air conditioning)*	
08	808613	M16 2 x 35 MM BOLT	6
09	809253	3/4”-10 x 4” GR8 BOLT	2
10	813716	ENGINE, MOUNT *(right)*	1
11	813717	ISO MOUNT	2
12	813718	TAIL WASHER ASSY	2
13	808626	3/4”-10 NYLON INSERT NUT	2
14	808872	ADAP., M18 -6NPTF STR	1
15	813497	SHUT-OFF, WATER	1
16	809208	M12 1.75 x 30 MM BOLT	3
17	813719	ENGINE/TRANS. MOUNT	1
18	808465	ADAP., M18 10 BEAD STR	1
19	813720	RELAY MOUNT BRACKET.	1
	813721	M12 1.75 x 20MM BOLT	2
20	808434	STARTER RELAY	1
	808545	1/4”-20 FLANGE NUT	2
	813722	1/4-20 x 1/2” BOLT	2
21	808798	ENGINE BLOCK HEATER	1
		(Ether Kit - Option)	
22[c]	NSS	ETHER CYLINDER *(8 oz.)*	1
23[d]	813723	VINYL CLAMP, 1/2”	AR
24[d]	813386	1/4” x 5/8” BOLTS	4
25[d]	808545	1/4” FLANGE NUT.	4
26[d]	813724	MOUNT BRACKET, ETHER KIT	1
27[d]	NSS	ADAP., 90º	1
28	820435	ETHER KIT *(option)*	1
		--- ITEMS NOT SHOWN---	
		(Wire Harness)	
00	813466	ECU INTERFACE HARNESS	1
00	813472	ENGINE HARNESS	1
00	813473	THROTTLE AND INSTRUMENTS	1
		(Fuel Lines)	
00	813701	HOSE, -6 A6/A5 56”	1
00	813699	HOSE, -4 A6/NONE 100”	1
00	095955	CLAMP, HOSE SAE #10	1
		(Fuel Transfer Pump)	
00	210047	ADAPTER, -6MFS -6FFSS	1



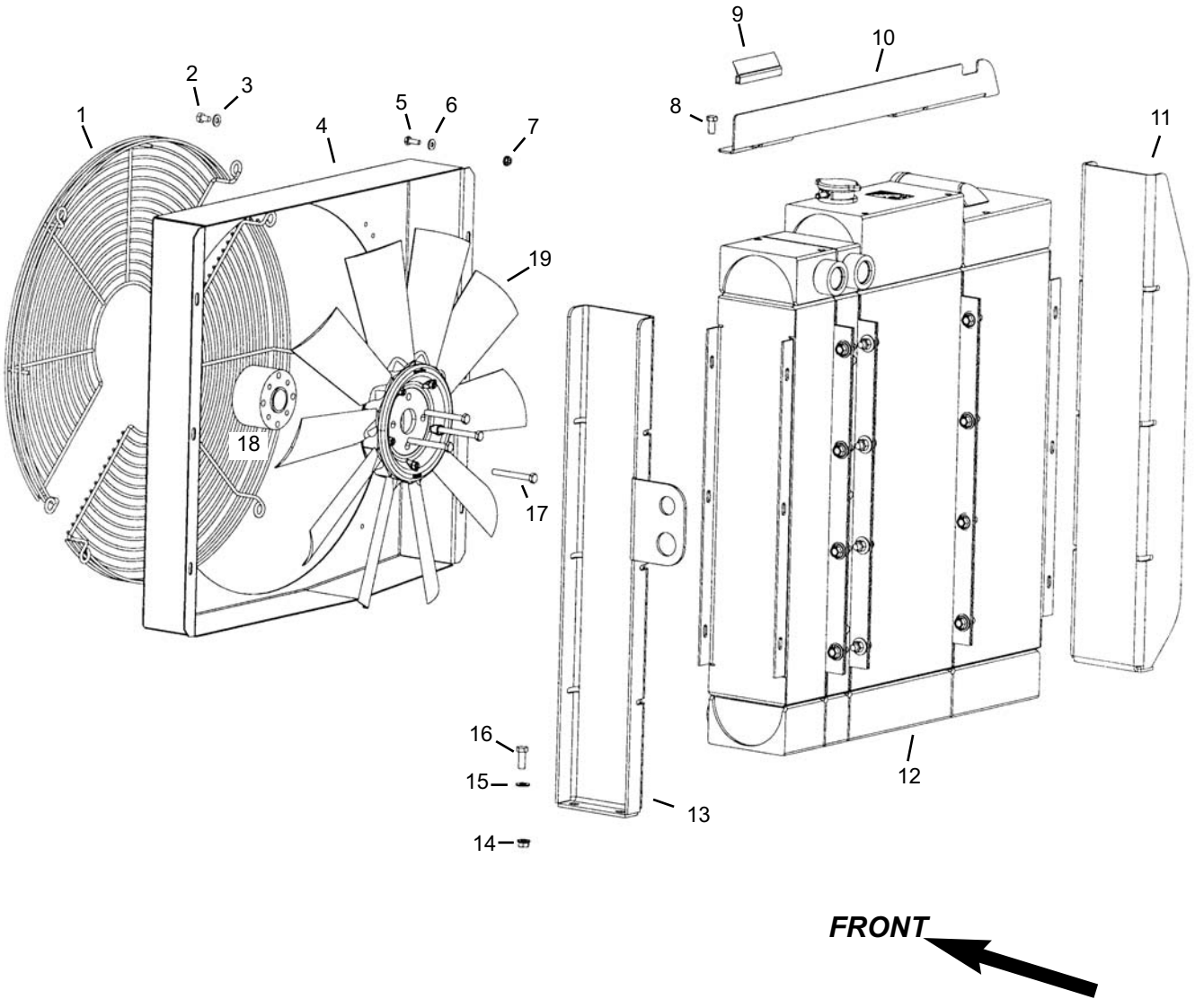
a *Not sold separately; must be purchased from John Deere.*

b *Not sold separately; refer to “Filter” section at the beginning of this manual for individual parts.*

c *Obtain locally; it is recommended to use the 8 ounce (half-size) ether cylinder for sufficient clearance when hood is closed.*

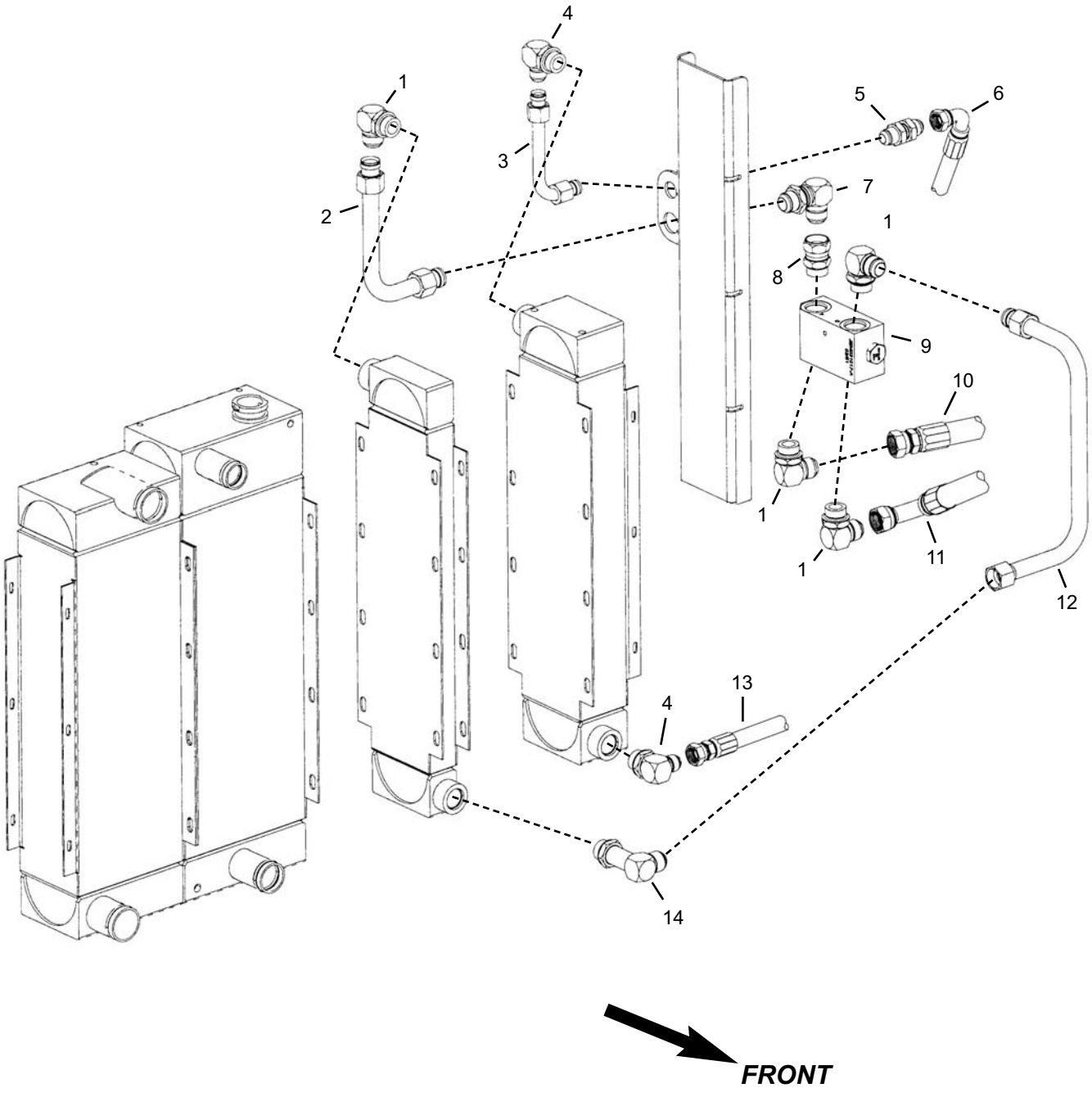
d *Included with item #28 Ether Kit (option).*

Radiator and Cooler Group (Part 1 of 3)



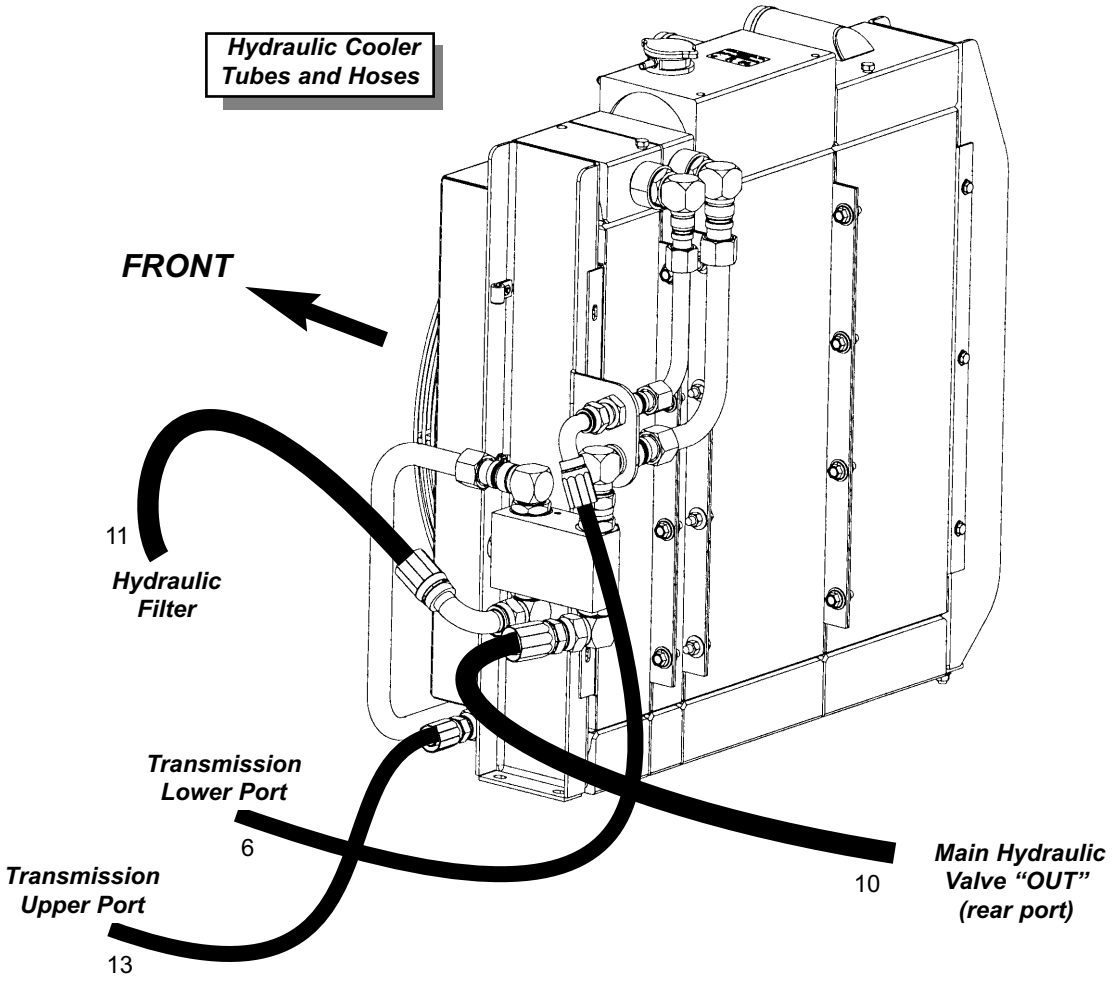
Radiator and Cooler Group (Part 1 of 3)

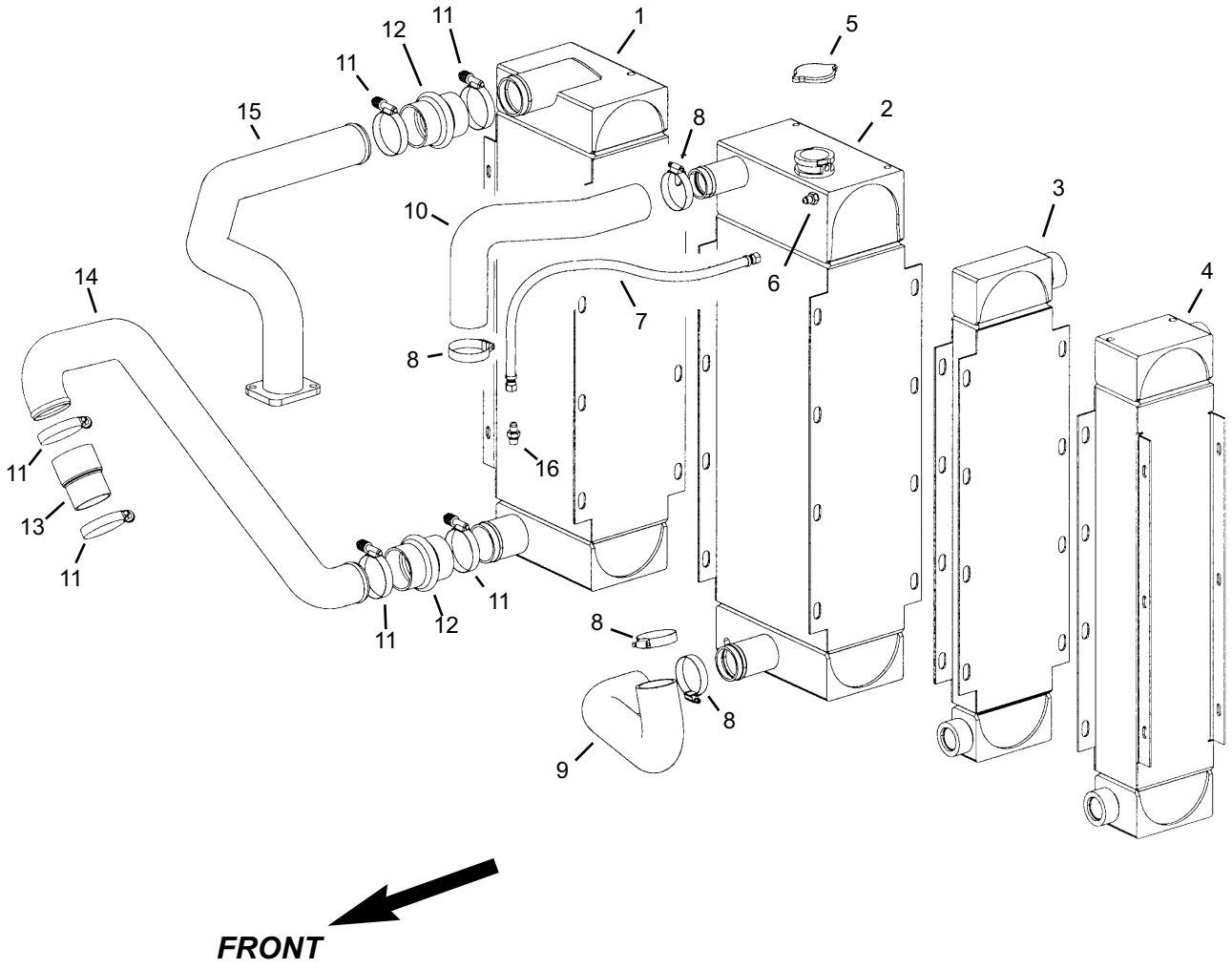
Ref. No.	Part No.	Description	Qty. Req.
01	813728	FAN GUARD *(half)*	2
02	813531	5/16"X1/2" BOLT	6
03	813729	5/16" FLAT WASHER	6
04	813730	FAN SHROUD	1
05	813598	5/16" x 1" BOLT	10
06	813729	5/16" FLAT WASHER	10
07	808555	5/16" WHIZ LOCK NUT	10
08	813677	3/8" x 3/4" BOLT	2
09	813731	TRIM, SEAL (4.5')	1
10	813732	BAFFLE, COOLER TOP	1
11	813733	SUPPORT, COOLER *(right)*	1
12	813734	RADIATOR/COOLERS	1
10	808106	RADIATOR CAP *(included with 12)*	1
13	813735	SUPPORT, COOLER *(left)*	1
	813736	TRIM, SIDE BULB (2')	1
14	808471	3/8" WHIZ LOCK NUT	4
15	813657	3/8" FLAT WASHER	4
16	813574	3/8" x 1" BOLT	4
17	813737	M8 x 70mm BOLT	4
18	813738	FAN SPACER (2")	1
19	813739	FAN, SUCTION (22")	1
		-- ITEMS NOT SHOWN --	
		(Radiator Overflow)	
00	813740	OVERFLOW HOSE (42")	1
00	813741	CLAMP, VINYL 3/8"	1
		(Ether Equipped - Option)	
00	808913	ETHER KIT	1
00	813742	ETHER WIRE HARNESS	1
00	813724	ETHER MOUNT BRACKET	1


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Radiator and Cooler Group (Part 2 of 3)

Ref. No.	Part No.	Description	Qty. Req.
01	813743	ADAP., -16ORM -16JICM 90^0	4
02	813744	TUBE, UPPER HYDRAULIC	1
03	813745	TUBE, UPPER TRANS.	1
04	813746	ADAP., -16ORM -12JICM 90^0	2
05	813747	ADAP., -12 JICM BULKHEAD	1
06	813748	HOSE, -12 A12/DS12 42” *(to transmission lower port)*	1
07	809111	ADAP., -16JICM BULKHEAD 90^0	1
08	813749	ADAP., -16 ORM -16JICM	1
09	813750	COLD START VALVE	1
10	813751	HOSE, -16 A16/DS16 78” *(to main hydraulic valve)*	1
11	813686	HOSE, -16 A16/A20 30” *(to hydraulic filter)*	1
12	813752	TUBE, LOWER HYDRAULIC	1
13	813753	HOSE, -12 A12/A12 30” *(to transmission upper port)*	1
14	813754	ADAP., -16ORM -16JICM LNG 90^0	1

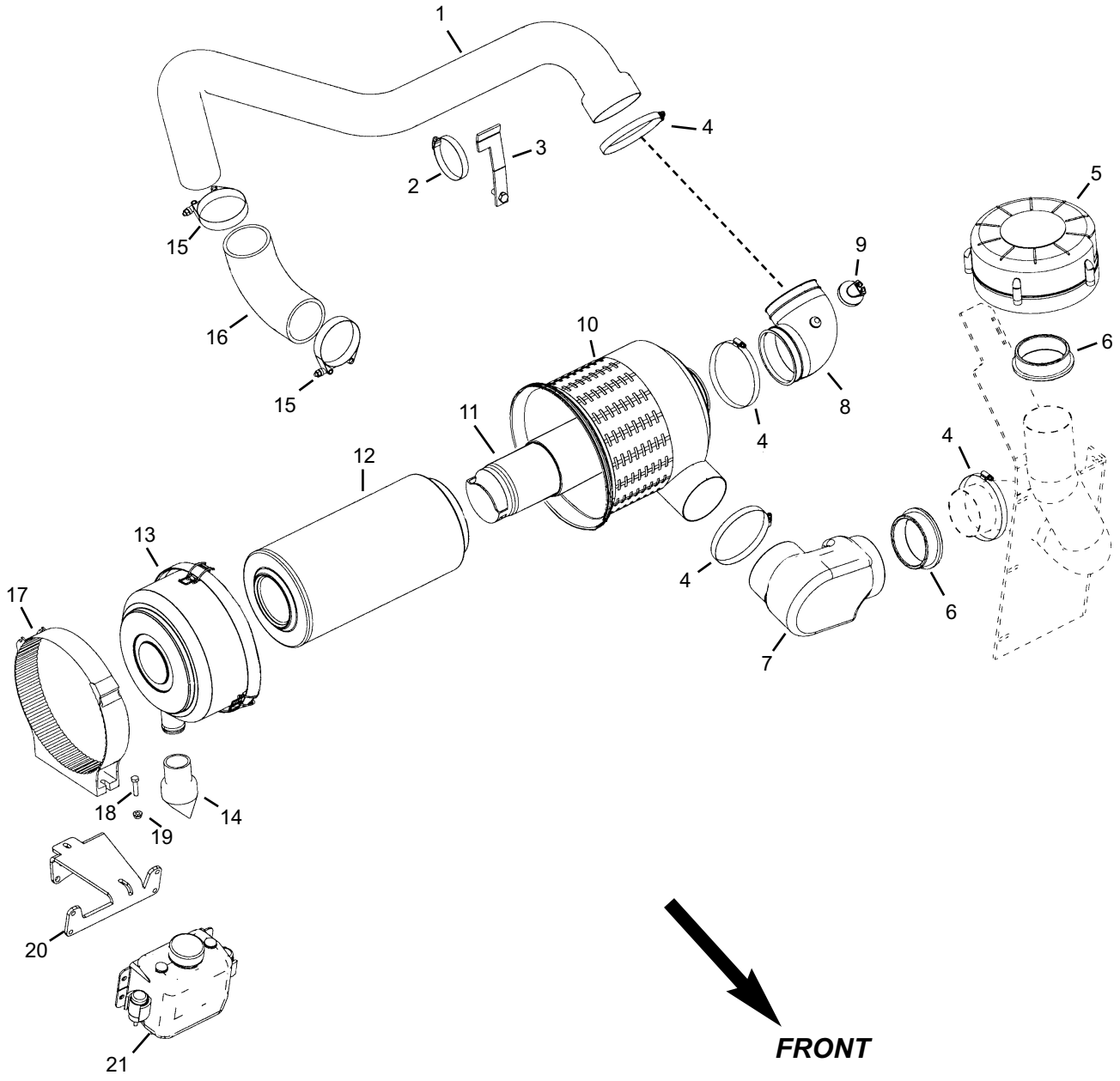



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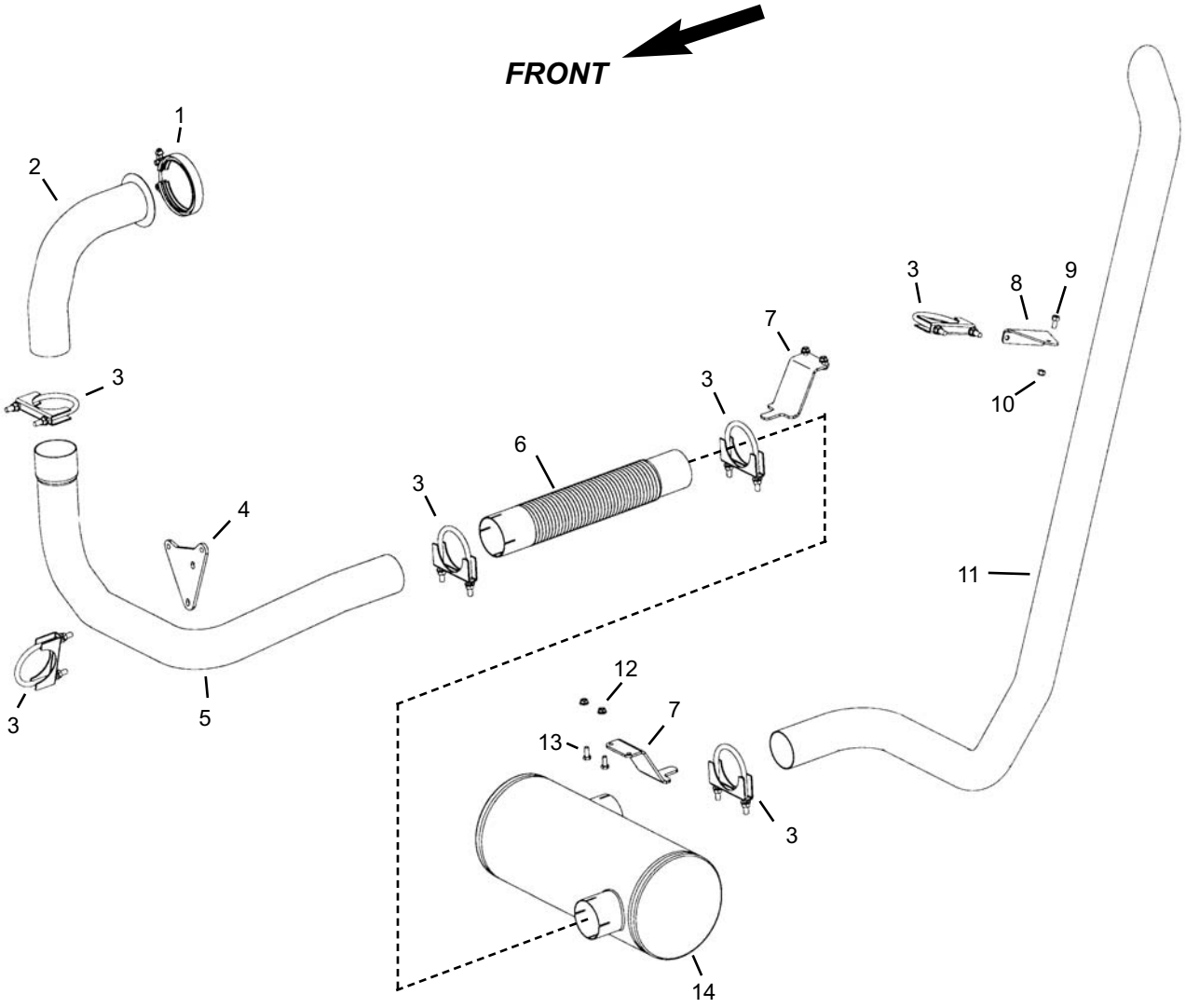
Radiator and Cooler Group (Part 3 of 3)

Ref. No.	Part No.	Description	Qty. Req.
01	813755	CHARGE AIR COOLER *(section)*	1
02	813756	RADIATOR *(section)*	1
03	813757	HYDRAULIC OIL COOLER *(sect.)*	1
04	813758	TRANSMISSION COOLER *(sect.)*	1
05	808106	RADIATOR CAP, 10 p.s.i.	1
06[a]	NSS	FITTING *(radiator)*	1
07[a]	NSS	HOSE.	1
08	808947	CLAMP, HOSE SAE #32	4
09	813759	HOSE, LOWER RADIATOR	1
10	813760	HOSE, UPPER RADIATOR.	1
11	813761	CLAMP, HOSE TENSION #32	6
12	813762	HOSE, SILICONE 2.25”	2
13	813763	HOSE, 2” ID x 2-1/4” ID	1
14	813764	TUBE, LOWER CHARGE AIR	1
15	813765	TUBE, UPPER CHARGE AIR	1
	813766	GASKET *(not shown)*	1
16[a]	NSS	FITTING *(engine)*	1

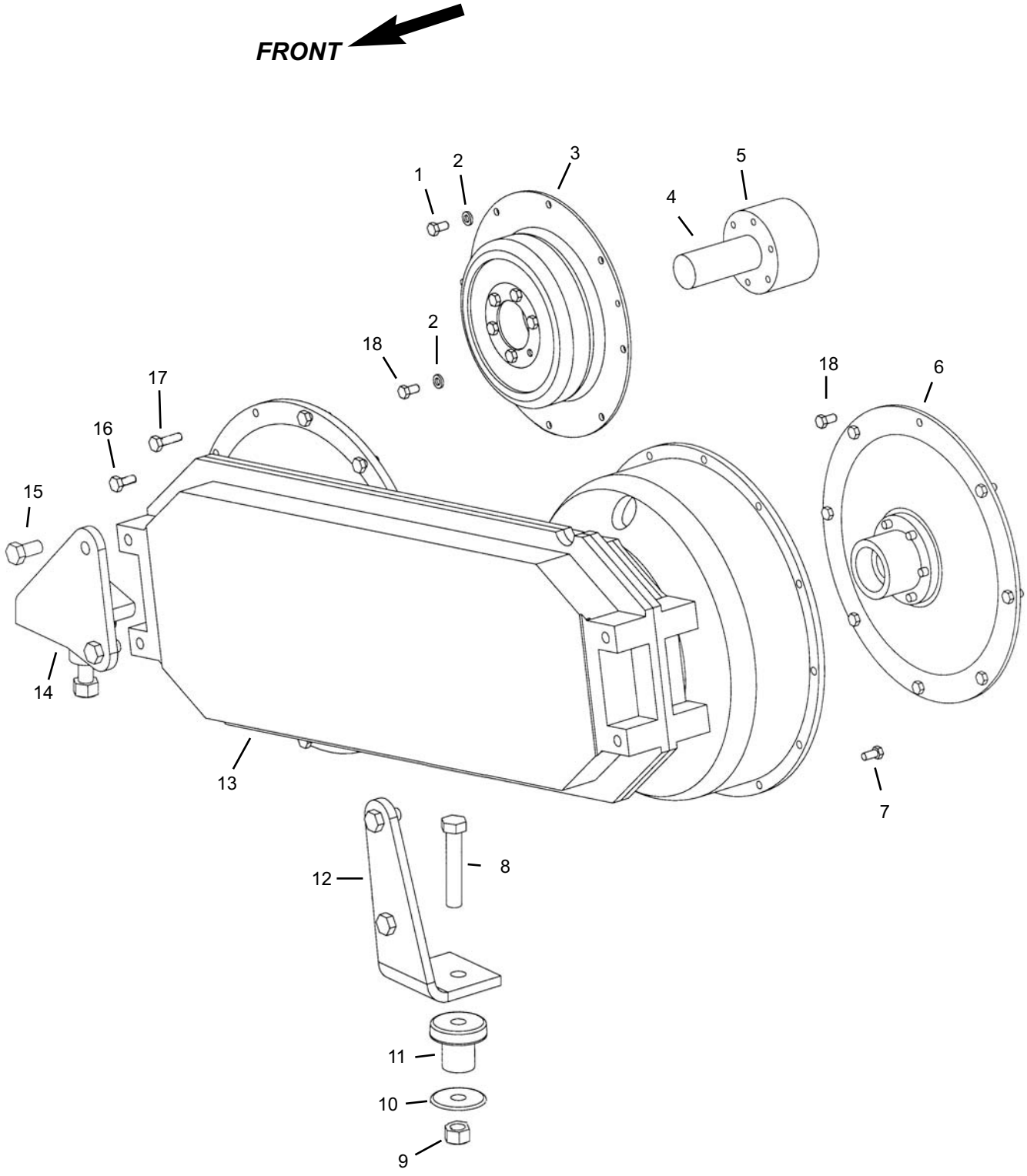
a *No longer used; remove hose and replace with the following two plugs: 813767 M12 o-ring plug (engine) and 813768 1/4” NPT plug (radiator).*


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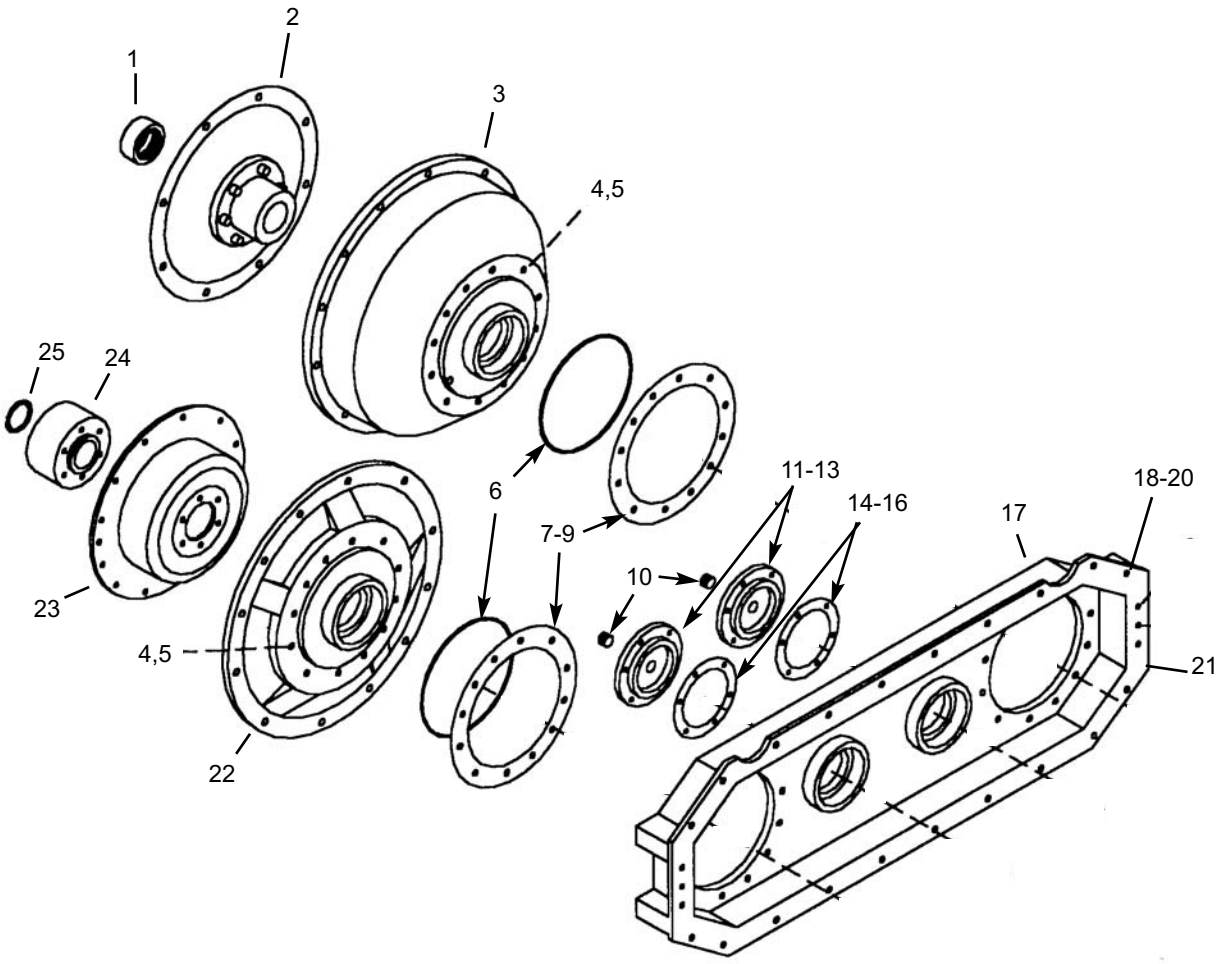
Ref. No.	Part No.	Description	Qty. Req.
01	813769	AIR INLET PIPE	1
02	808655	HOSE CLAMP, #52	1
03	813770	BRACKET, INTAKE PIPE	1
	808650	M10 x 25mm BOLT	1
04	808659	HOSE CLAMP, #72	4
05	809308	PRECLEANER	1
06	813771	SLEEVE REDUCER (4" x 3-1/2")	2
07	813772	INTAKE ADAPTER, 4"	1
08	813773	ELBOW, 4" 90º *(w/tap)*	1
09	813774	INDICATOR, SERVICE	1
10	813775	AIR CLEANER *(includes items #11-14)*	1
11	809826	AIR FILTER, SECONDARY	1
12	809825	AIR FILTER, PRIMARY	1
13	NSS	END CAP *(included with item 10)*	1
14	809279	EJECTOR *(included with item 10)*	1
15	813776	T-BOLT BAND CLAMP 3-1/2"	2
16	808427	ELBOW, 3" 90º	1
17	813777	BAND, AIR CLEANER MOUNT	1
18	813778	5/16" x 1-1/4" BOLT	2
19	808555	5/16" WHIZ LOCK NUT	2
20	813779	MOUNT, AIR CLEANER	1
21	808089	WIPER WASHER RESV. *(optional)*	1


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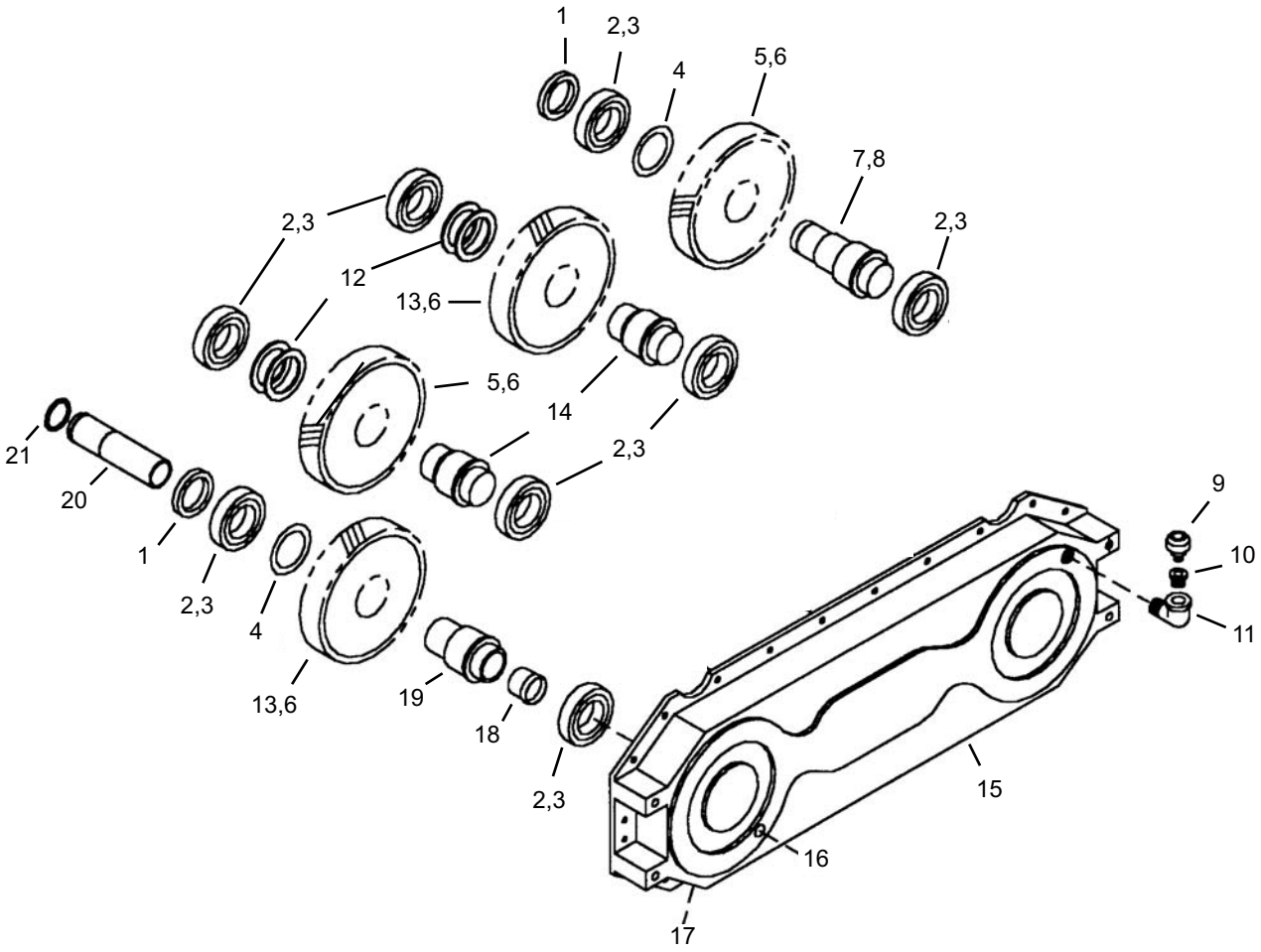
Ref. No.	Part No.	Description	Qty. Req.
01	809131	TURBO CLAMP	1
02	813780	OUTLET EXHAUST PIPE	1
03	808678	3” MUFFLER CLAMP	6
04	813781	MUFFLER BRACKET	1
05	813782	PIPE, MUFFLER	1
06	813783	TUBE, FLEX CONNECTOR 3”	1
07	813784	BRACKET, MUFFLER	2
08	813785	BRACKET, TAILPIPE	1
09	808498	5/16” x 3/4” BOLT	1
10	808555	5/16”-18 FLANGE LOCK NUT	1
11	813786	TAILPIPE	1
12	808555	5/16” WHIZ LOCK NUT	4
13	808498	5/16” x 3/4” BOLT	4
14	813787	MUFFLER, EXHAUST	1
		-- ITEMS NOT SHOWN --	
00	813788	CATALYTIC PURIFIER *(option)* *(used for reducing emissions)*	1


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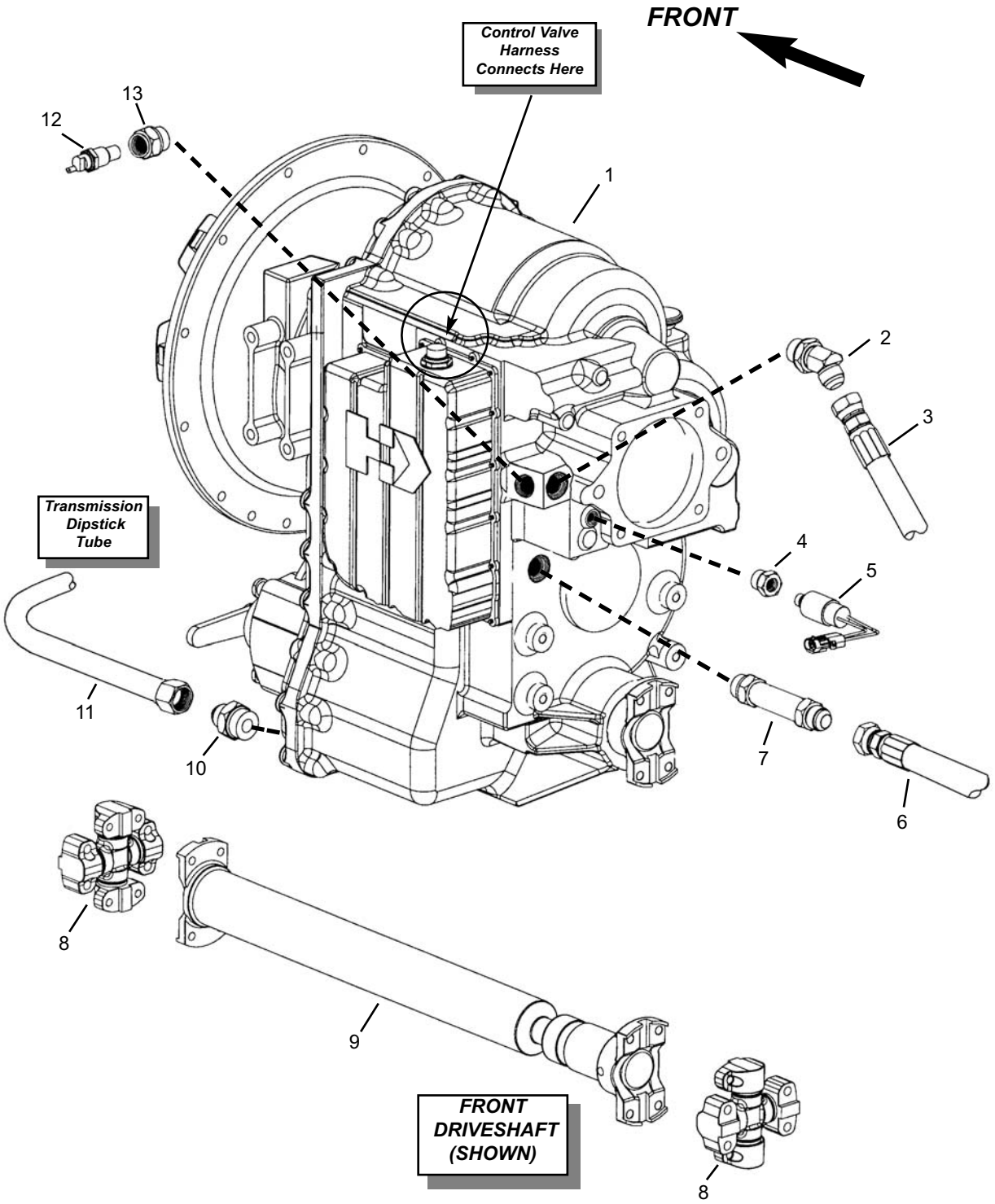
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	813574	3/8-16 x 1” BOLT	8	10	813718	TAIL WASHER	2
02	813789	3/8” HARDENED WASHER	14	11	813717	CENTER BONDED MOUNT	2
03	813790	FLEXIBLE COUPLING	1	12	813795	CASE MOUNT BAR	1
04	813791	SHAFT ADAPTER	1	13	813796	TRANSFER CASE ASY.	1
05	813792	HUB ADAPTER`	1	14	813797	CASE MOUNT WELDMENT	1
06	813793	DRIVEN PLATE ASY	1	15	813798	5/8”-11 x 1/1/4” BOLT	4
07	813794	3/8-16 x 1-1/4” BOLT	12	16	808650	M10 1.5 x 25 MM BOLT	8
08	809253	3/4-10 x 4” BOLT	2	17	808636	M10 1.5 x 35 MM BOLT	4
09	808626	3/4”-10 NYLON INSERT NUT	2	18	813799	3/8”-24 x 3/4” BOLT	14


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Ref. No.	Part No.	Description	Qty. Req.
01	813800	EXTERNAL RETAINING RING	1
	813802	BUSHING	1
02	813793	DRIVEN PLATE ASY.	1
03	813803	TRANSMISSION ADAPTER	1
04	813804	1/2”-13 x 1-1/2” GR8 BOLT	12
05	813805	1/2” LOCK WASHER	12
06	813806	O-RING	2
07	813807	INPUT/OUTPUT SHIM 0.007”	8
08	813808	INPUT/OUTPUT SHIM 0.020”	2
09	813809	INPUT/OUTPUT SHIM 0.005”	8
10	813810	1/2” NPT PLUG	3
11	813811	END-INTERM. CAP	2
12	813598	5/16”-18 x 1” BOLT	12
13	808497	5/16” LOCK WASHER	12
14	813812	IDLERS SHIM 0.005”8IDLERS SHIM 0.005”	
15	813813	IDLERS SHIM 0.007”	8
16	813814	IDLERS SHIM 0.020”	2
17	NSS	HOUSING SUB-ASSEMBLY	1
18	813794	3/8”-16 x 1-1/4” GR8 BOLT	14
19	813591	3/8 FLAT WASHER	14
20	808471	3/8”-16 GR8 NUT	14
21	813815	DOWEL PIN	2
22	813816	ADAPTER, SAE #3	1
23	813817	FLEXIBLE COUPLING	1
24	813818	HUB ADAPTER	1
25	813819	EXTERNAL RETAINER RING	2


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Ref. No.	Part No.	Description	Qty. Req.
01	813820	HIGH TEMP. VITON SEAL	2
02	813821	BEARING CONE	8
03	813822	BEARING CUP	8
04	813823	OUTER SPACER	2
05	813824	RH GEAR (84 TEETH)	2
06	813825	KEY	4
07	813826	OUTPUT SHAFT	1
08	813827	KEY	1
09	813828	BREATHER	1
10	813829	3/8” x 3/4” BUSHING	1
11	813830	3/4” NPT STREET ELBOW	1
12	813831	IDLER SPACER	4
13	813832	LH GEAR (79 TEETH)	2
14	813833	IDLER SHAFT	2
15	NSS	HOUSING SUB-ASY.	1
16	813834	1/2” NPT PLUG	3
17	813835	1/2” NPT MAGNETIC PLUG	1
18	813836	EXPANSION PLUG	1
19	813837	INPUT SHAFT	1
20	813791	SHAFT ADAPTER	1
21	813819	EXTERNAL RETAINER RING	2


FRONT
Control Valve Harness Connects Here
Transmission Dipstick Tube
FRONT DRIVESHAFT (SHOWN)
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Ref. No.	Part No.	Description	Qty. Req.
01	813838	TRANSMISSION ASY	1
02	813839	ADAP., -12ORM -12JICM 45º	1
03	813753	HOSE, -12 A12/A12 30”	1
04	813840	ADAP., 1/8” NPTF -10ORM	1
05	809879	REV. PRESSURE SWITCH	1
06	813748	HOSE, -12 A12/DS12 42”	1
07	813841	ADAP., -12 SAE -12JICM LNG ST	1
08	809107	UNIVERSAL JOINT	4
09		DRIVESHAFT	
	813842	FRONT DRIVE SHAFT	1
	813843	REAR DRIVE SHAFT	1
10	813844	ADAP., -16ORM -12JICM STR	1
11	813845	TRANSMISSION DIPSTICK ASY.	1
12	813846	TEMPERATURE SENDER	1
13	813847	ADAP., -12ORM -8NPTF	1

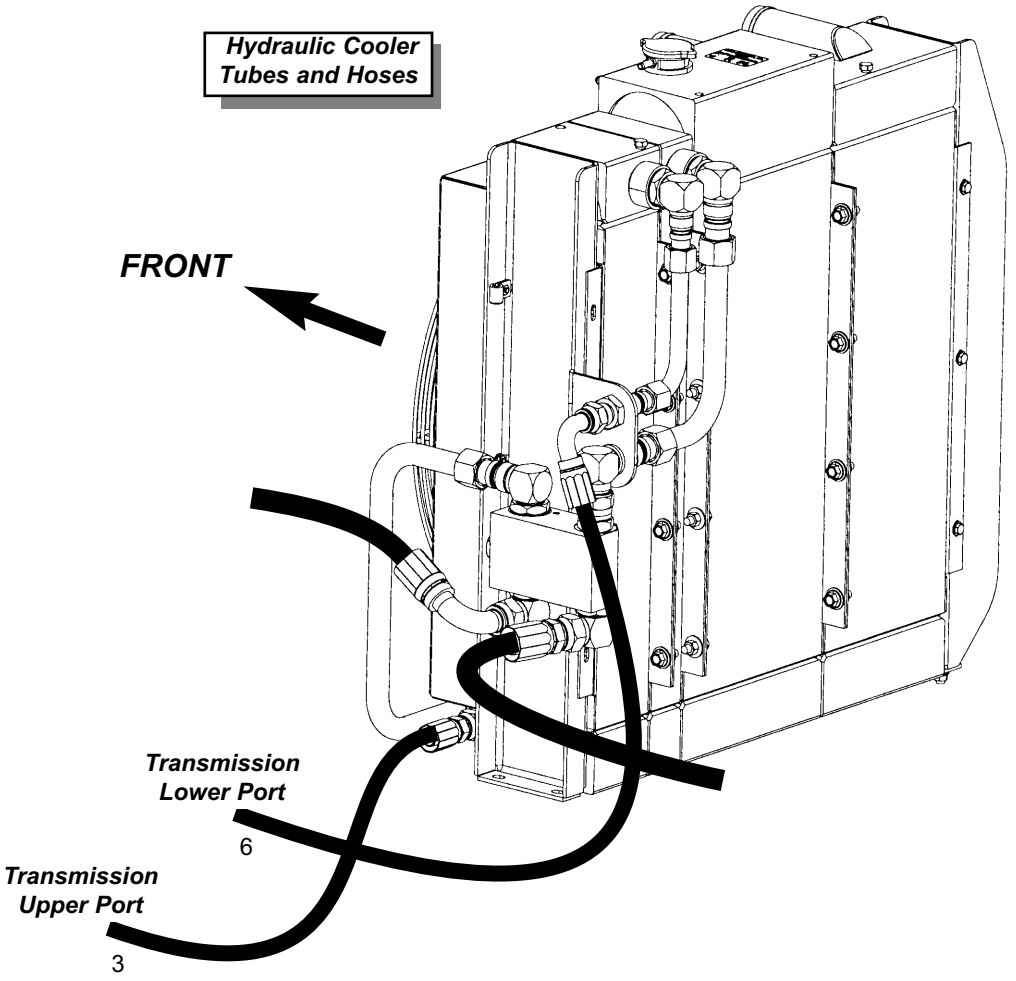
-- ITEMS NOT SHOWN --

(Universal Joint Bolts)

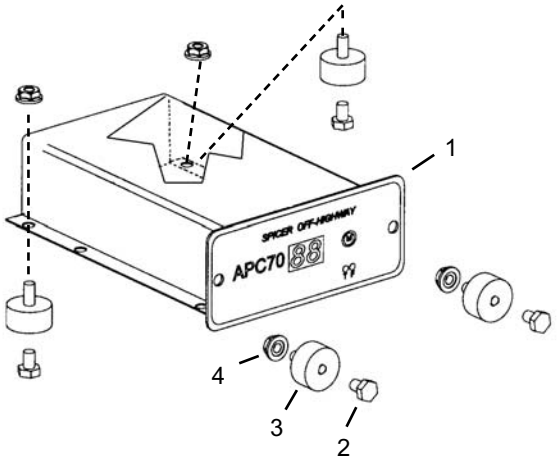
00	813848	M10 x 1.0/45MM GR10.9 BOLT *(metric used on axle end of u-joint)*	8
00	808623	3/8”-24 x 1-3/4” GR8 BOLT	24
	813849	3/8” LOCK WASHER	AR

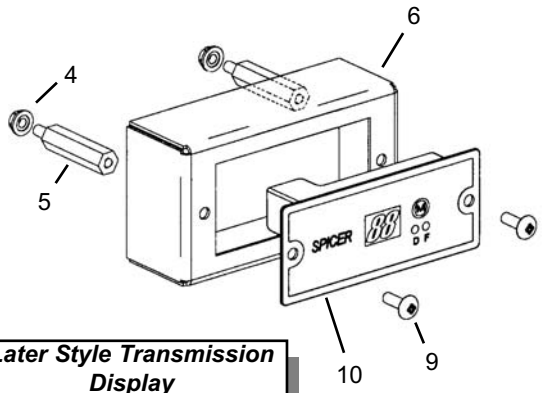
(Pressure Testing)

00	813850	TEST ADAPTER *(for checking pressure)*	1

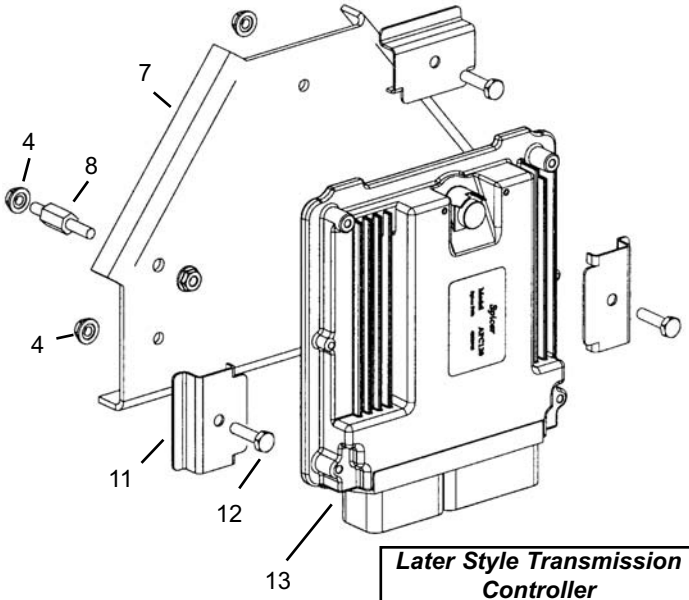


Early Style Transmission Controller and Display (located inside tool compartment)

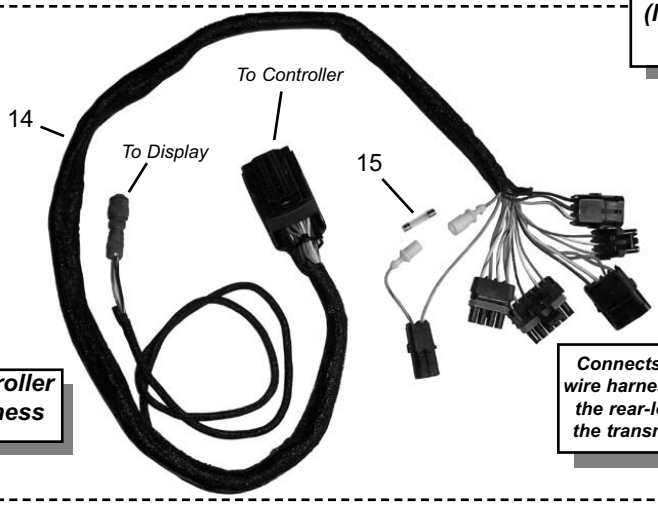




Later Style Transmission Display (located above fuse box in tool compartment)



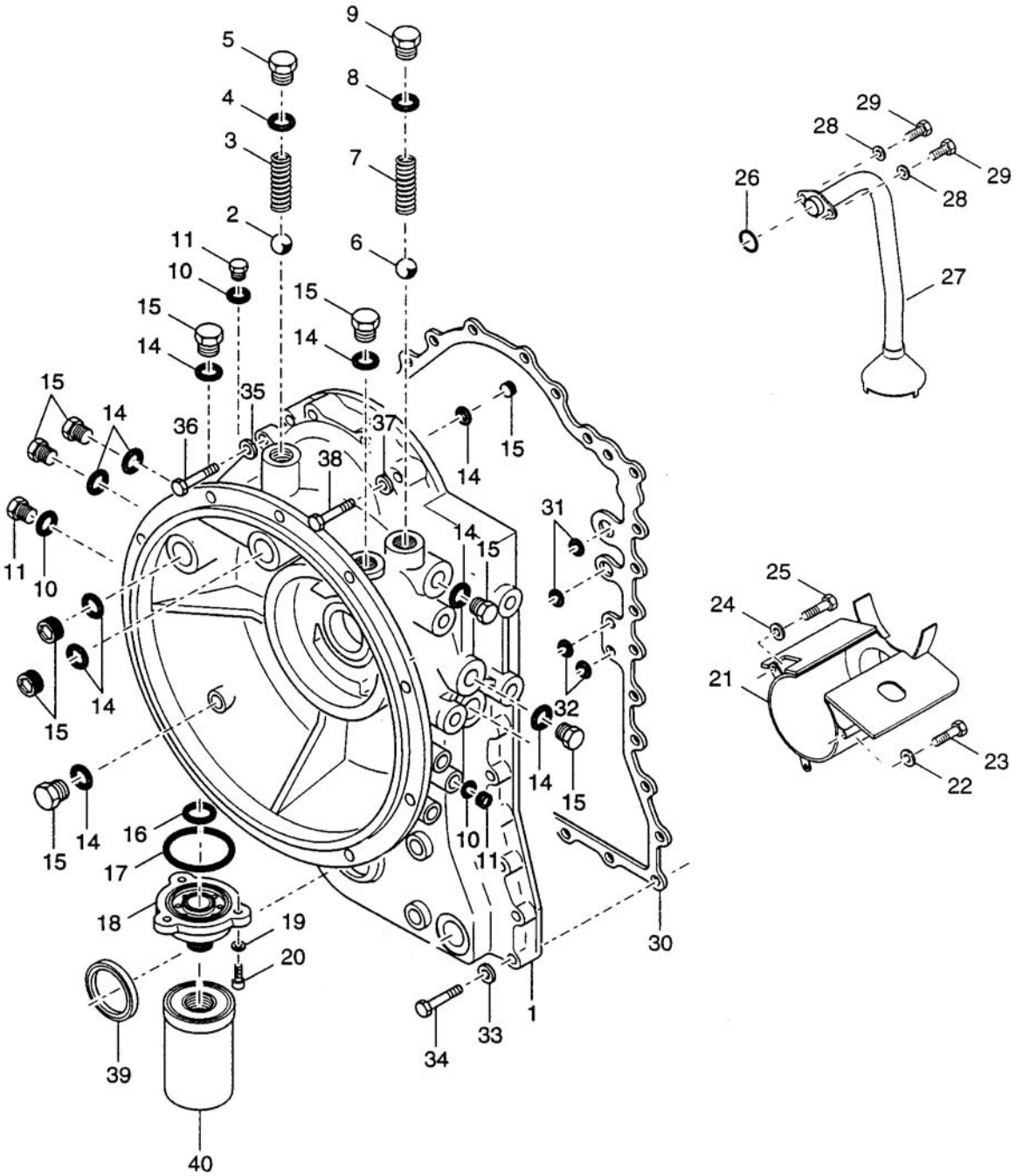
Later Style Transmission Controller (located in the rear of the tool compartment)



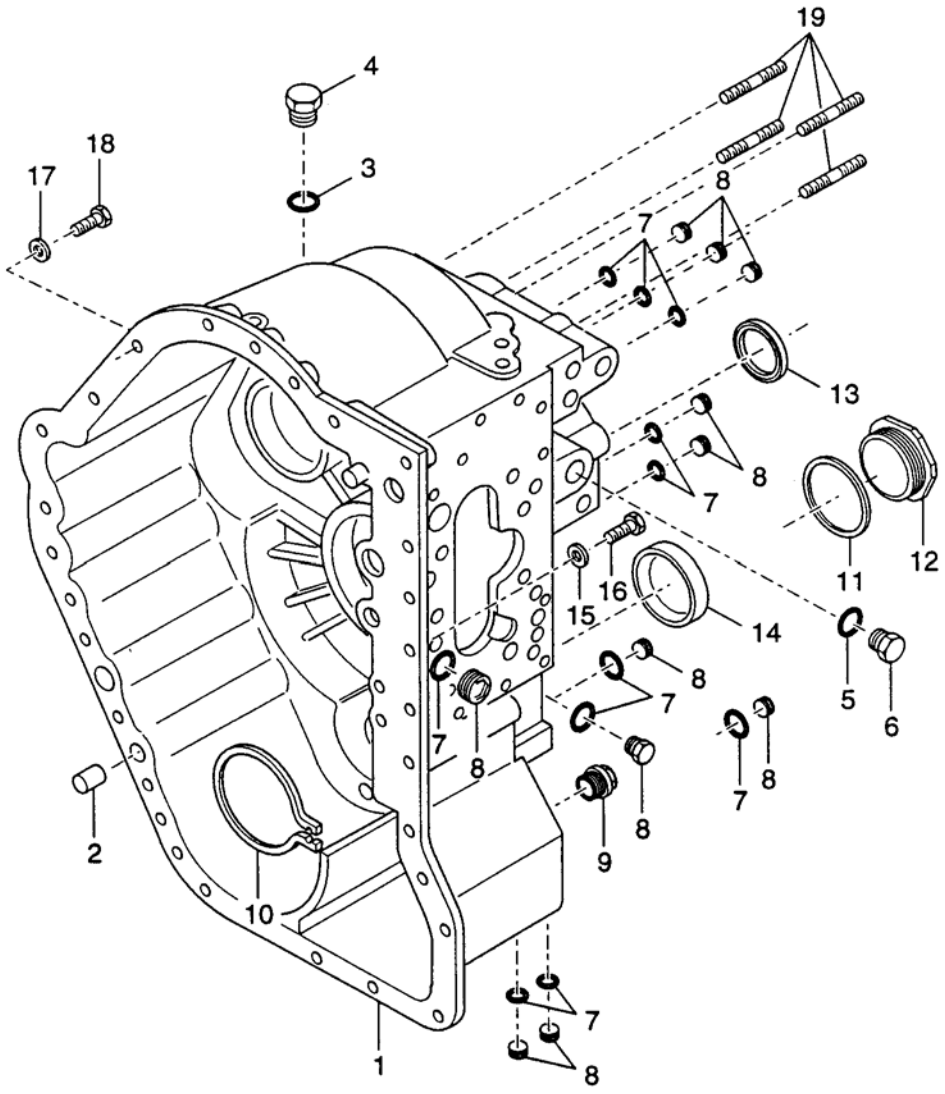
APC Controller Wire Harness

Connects to additional wire harnesses located in the rear-left area under the transmission cover.

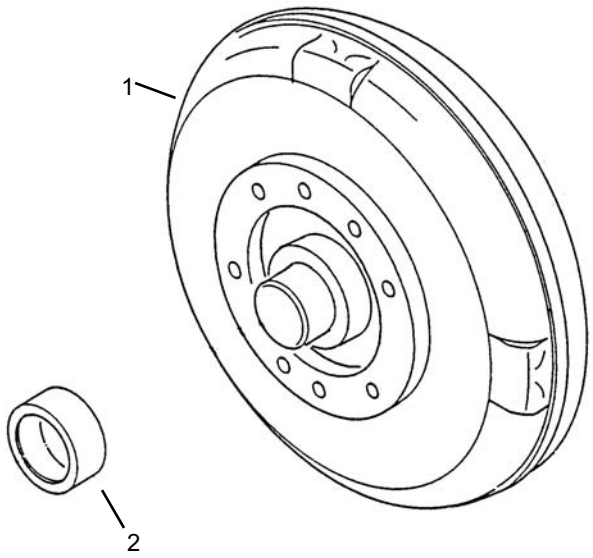
Ref. No.	Part No.	Description	Qty. Req.
01[a]	813851	CONTROLLER, APC70/71	1
	813852	HARNESS, CONTROL VALVE *(not shown - connects transmission to engine wire harness and APC controller. harness L70404, item #14)*	1
	813853	HARNESS, APC CONTROLLER *(not shown - connects to control valve harness.)*	1
02[a]	813854	HARNESS, APC CONTROLLER	4
03[a]	813855	ISO MOUNT, RUBBER	4
04	808545	1/4”-20 WHIZ NUT	AR
05[b]	813856	DISPLAY STAND-OFF	2
06[b]	813857	DISPLAY COVER	1
07[b]	813858	CONTROLLER MOUNT	1
08[b]	813859	CONTROLLER STAND-OFF	2
09[b]	813860	1/4” x 3/4” TRUSS BOLT *(black)*	2
10[bc]	NSS	DISPLAY TRANS. CONTROLLER	1
11[b]	NSS	BRACKET *(included with item 13)*	3
12[b]	813661	1/4”-20 x 1” BOLT	3
13[bd]	813861	APC120 CONTRLR. & DISPLAY	1
	813862	HARNESS, CONTROL VALVE *(not shown - connects transmission to engine wire harness and APC controller harness 105104, item #14)*	1
14	813863	HARNESS, APC CONTROLLER *(connects to control valve harness)*	1
15[b]	813864	FUSE, 1 AMP *(slow-blow) (used in 105104 APC wire harness)*	1


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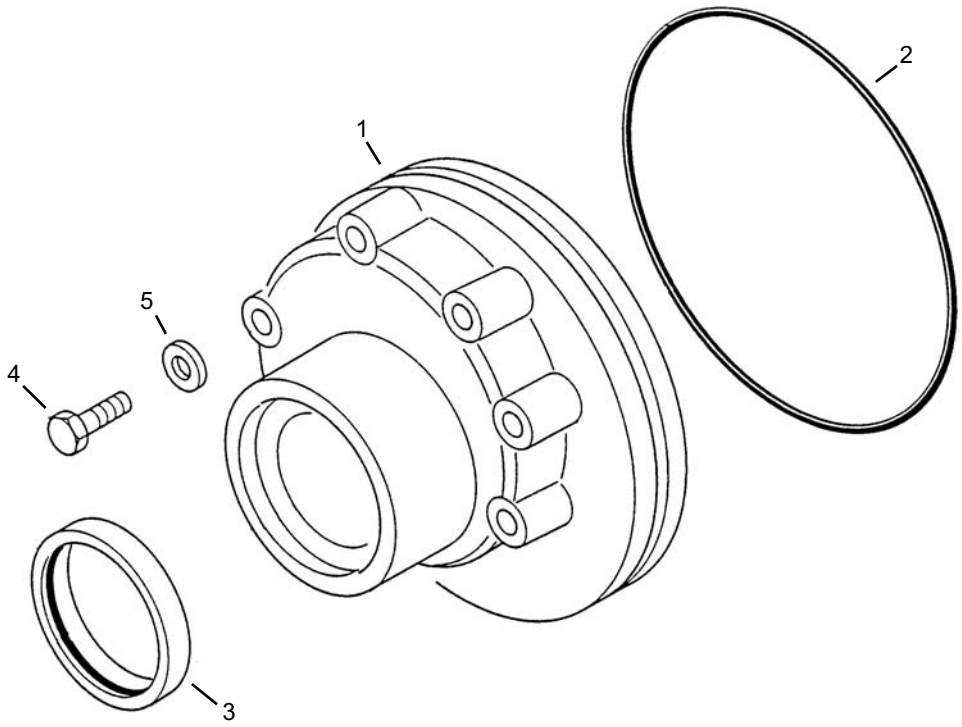
Ref. No.	Part No.	Description	Qty. Req.
01	813865	CONVERTER HSG. ASY.	1
02	813866	BALL	1
03	813867	BY-PASS SPRING	1
04	813868	PLUG O-RING *(part of Item 5)*	1
05	813869	PLUG *(includes item 4)*	1
06	813870	BALL	1
07	813871	SAFETY VALVE SPRING	1
08	813872	PLUG O-RING *(part of item 9)*	1
09	813873	PLUG *(includes item 8)*	1
10	813874	PLUG O-RING *(part of item 11)*	3
11	813875	PLUG *(includes item 10)*	3
14	813876	PLUG O-RING *(part of item 15)*	10
15	813877	PLUG *(includes item 14)*	10
16	813878	FILTER ADAPTER O-RING	1
17	813879	FILTER ADAPTER O-RING	1
18	813880	FILTER ADAPTER O-RING	1
19	809096	SCREW LOCKWASHER	3
20	813881	ADAPTER SCREW	3
21	813882	OIL BAFFLE	1
22	809096	SCREW LOCKWASHER	2
23	813883	MOUNTING SCREW	2
24	809096	SCREW LOCKWASHER	1
25	813884	MOUNTING SCREW	1
26	813885	SUCTION TUBE O-RING	1
27	813886	SUCTION TUBE ASSEMBLY	1
28	809096	SCREW LOCKWASHER	2
29	813887	MOUNTING SCREW	2
30	813888	CASE GASKET	1
31	813889	CASE O-RING	2
32	813890	CASE O-RING	2
33	809096	SCREW LOCKWASHER	14
34	809099	CASE SCREW	14
35	809096	SCREW LOCKWASHER	1
36	809119	CASE SCREW	1
37	809096	SCREW LOCKWASHER	5
38	813891	CASE SCREW	5
39	813892	FRONT OUTPUT SHAFT SEAL	1
40	809883	FILTER ASY.	1



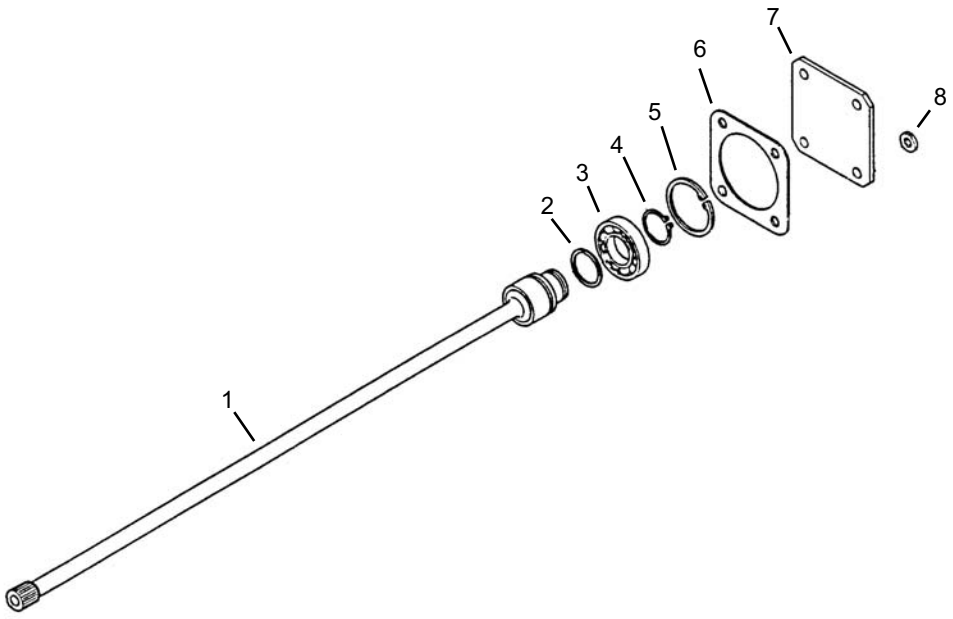
Ref. No.	Part No.	Description	Qty. Req.
01	813893	CASE ASSEMBLY.	1
02	813894	CASE/HOUSING PIN	2
03	813895	PLUG O-RING *(part of item 4)*	1
04	813896	PLUG *(includes item 3)*	1
05	813897	PLUG O-RING *(part of item 6)*	1
06	813898	PLUG *(includes item 5)*	1
07	813899	PLUG O-RING *(part of item 8)*	11
08	813900	PLUG *(includes item 7)*	11
09	813901	MAGNETIC DRAIN PLUG.	1
10	813902	BEARING SNAP RING	1
11	813903	PLUG GASKET	1
12	813904	PLUG	1
13	813892	REAR SHAFT SEAL	1
14	813905	SHAFT BORE PLUG.	1
15	809096	CASE SCREW LOCKWASHER	5
16	809119	CASE SCREW	5
17	809096	CASE SCREW LOCKWASHER	4
18	809119	CASE SCREW	4
19	813906	1/2”-20 STUD	4



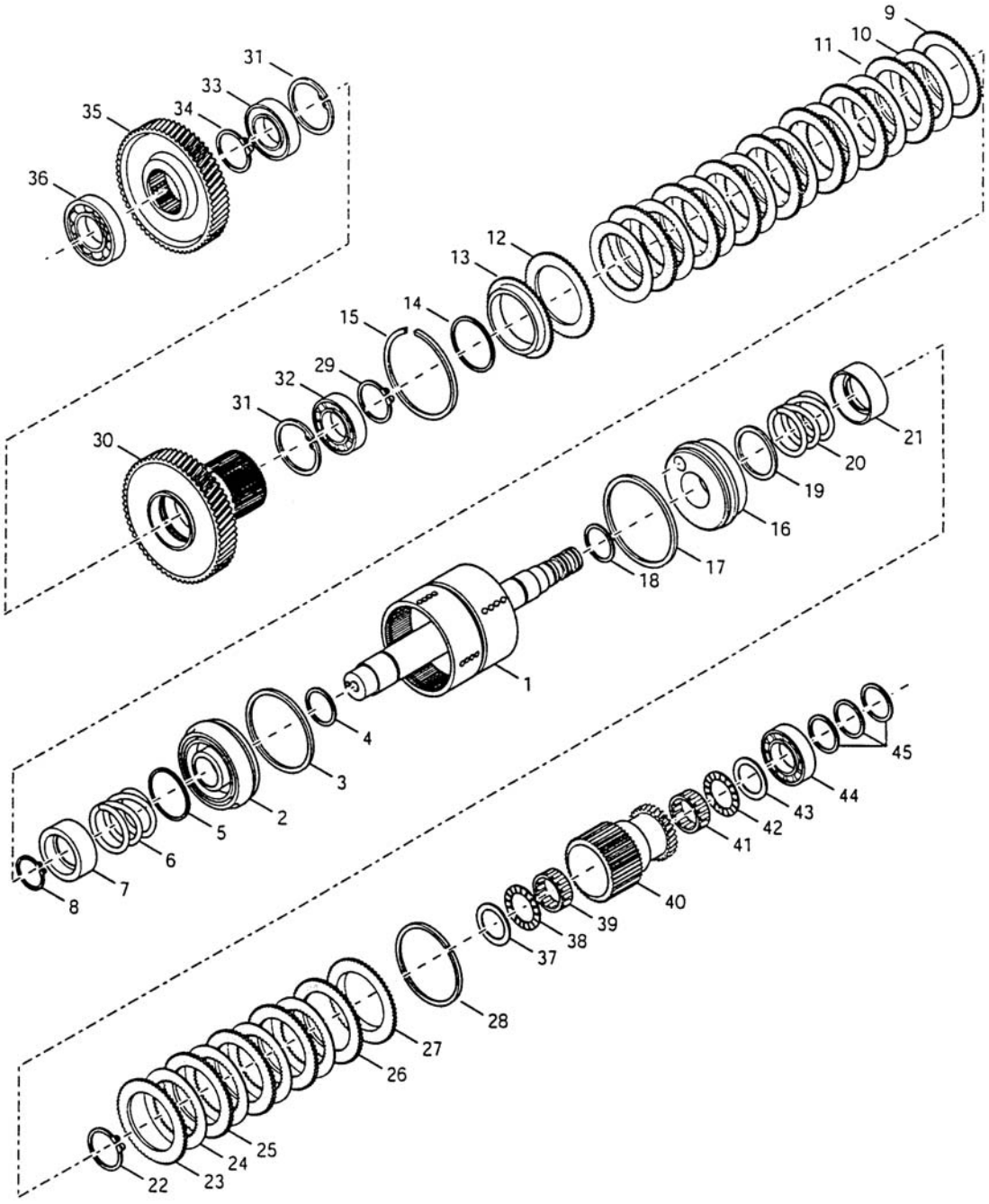
Ref. No.	Part No.	Description	Qty. Req.
01	813907	CONVERTER & BUSHING ASY.. . .	1
02	813908	PILOT BUSHING.	1
		(included with item 1)	



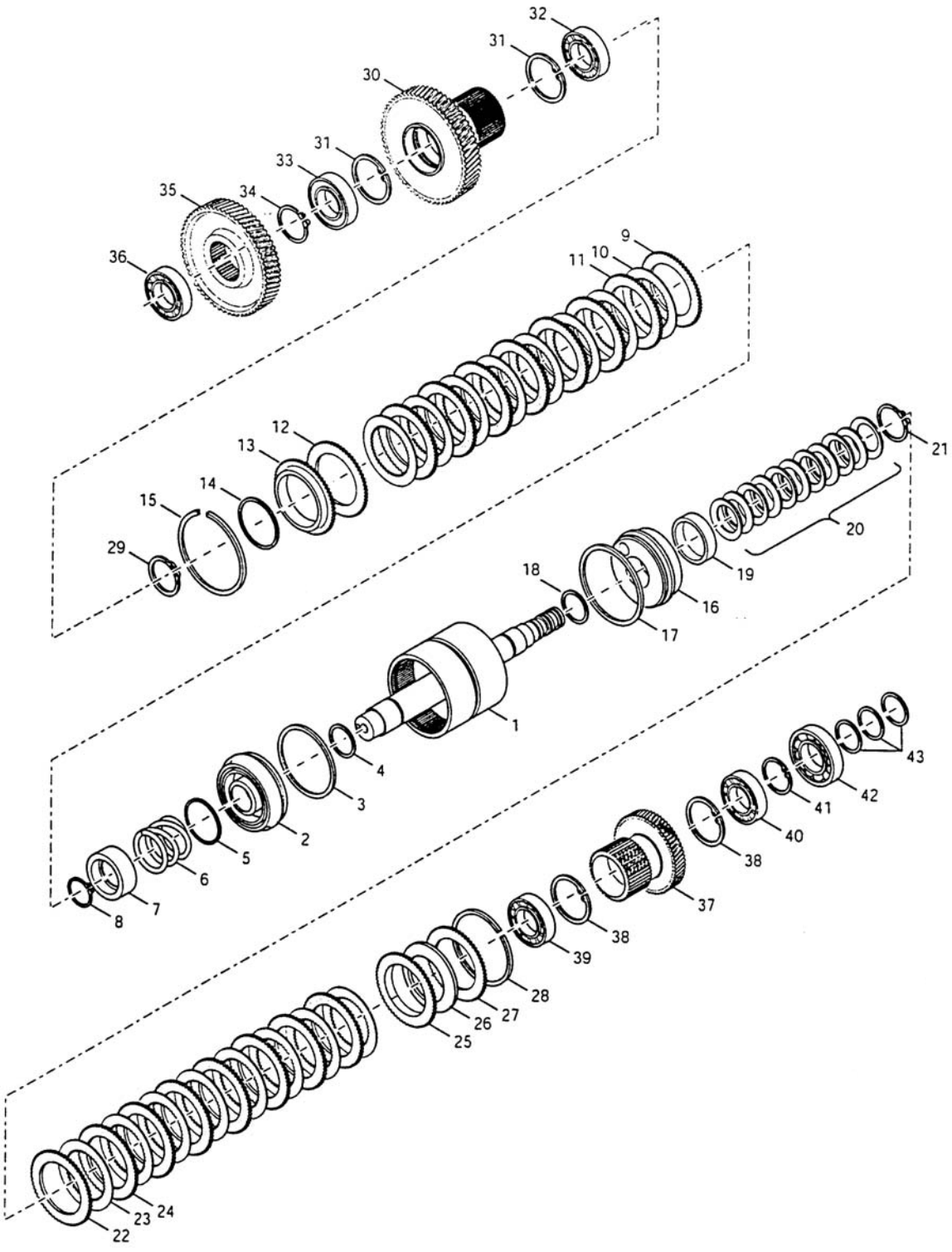
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	813909	CHARGE PUMP ASSEMBLY . . . . . 1 *(includes items 2 & 3)*		03	813911	PUMP OIL SEAL 1	
02	813910	PUMP O-RING 1		04	813912	PUMP MTG. SCREW 6	
				05	813913	SCREW SEAL WASHER 6	



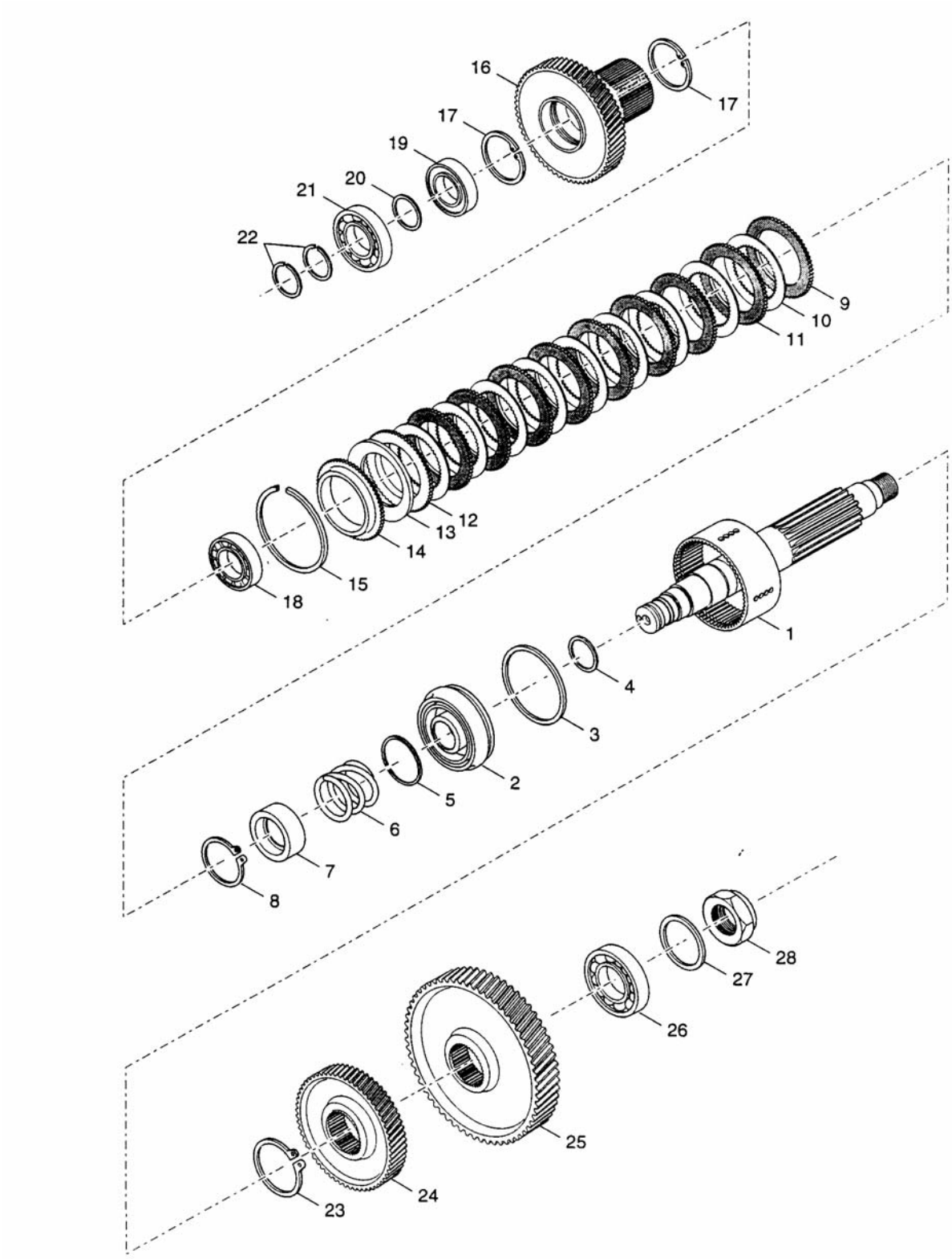
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	813914	PUMP DRIVE SHAFT	1	05	813917	BEARING RETAINING RING	1
02	813915	PISTON RING	1	06	813918	HOLE COVER GASKET	1
03	813916	DRIVE SHAFT BEARING	1	07	813919	HOLE COVER	1
04	809132	BEARING SNAP RING	1	08	813920	STUD NUT LOCKWASHER	4


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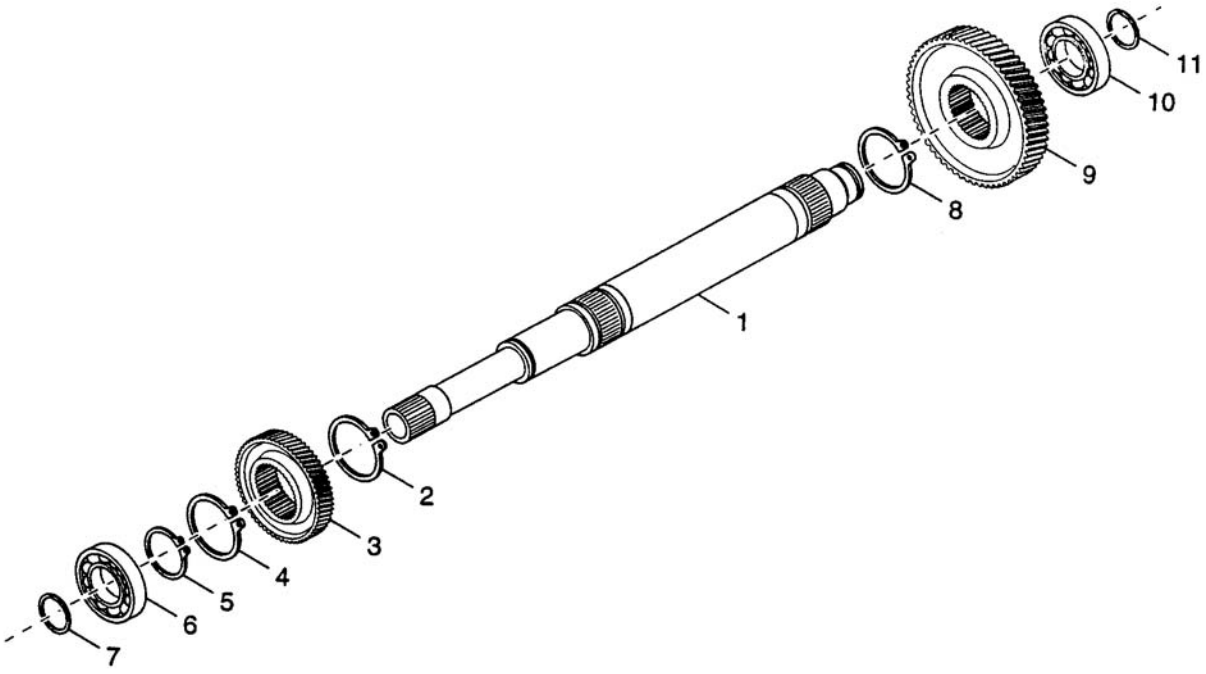
Ref. No.	Part No.	Description	Qty. Req.
01	813926	DRUM & PLUG ASY.	1
02	813940	PISTON & SEALS ASY. *(includes items 3 and 4)*	1
03	813941	PISTON OUTER SEAL *(included in item 2)*	1
04	813942	PISTON INNER SEAL. *(includes item 2)*	1
05	813943	PISTON WEAR PLATE	1
06	813945	PISTON RETURN SPRING	1
07	813946	SPRING RETAINER	1
08	813933	RETAINER SNAP RING	1
09	813934	OUTER HALF DISC	1
10	813935	INNER DISC	8
11	813936	OUTER DISC	7
12	813934	OUTER HALF DISC	1
13	813937	END PLATE AND SEAL ASY *(includes item 14)*	1
14	813938	BACKING PLATE SEAL *(included in item 13)*	1
15	813939	PLATE SNAP RING.	1
16	813940	PISTON & SEALS ASY.. *(includes items 17 and 18)*	1
17	813941	PISTON OUTER SEAL *(included in item 16)*	1
18	813942	PISTON INNER SEAL. *(included in item 16)*	1
19	813943	PISTON WEAR PLATE	1
20	813945	PISTON RETURN SPRING	1
21	813946	SPRING RETAINER	1
22	813933	RETAINER SNAP RING	1
23	813934	OUTER HALF DISC	1
24	813935	INNER DISC	4
25	813936	OUTER DISC	3
26	813934	OUTER HALF DISC	1
27	813950	DISC BACKING PLATE.	1
28	813939	PLATE SNAP RING.	1
29	809020	BEARING SNAP RING	1
30	813954	FWD. LOW CLUTCH GEAR *(54T)*	1
31	813955	FL BRG. LOCATING RING	2
32	813956	FL GEAR INNER BEARING	1
33	813957	GEAR OUTER BEARING *(shield out)*	1
34	809020	BEARING SNAP RING	1
35	813958	FWD. DRIVEN GEAR *(42T)*	1
36	813959	FL/FH SHAFT FRONT BRG.	1
37	813960	THRUST BEARING SPACER	1
38	913961	FH GEAR THRUST BEARING	1
39	813962	FH GEAR NEEDLE BEARING	1
40	813963	FH CLUTCH GEAR *(34T)*	1
41	813962	FH GEAR NEEDLE BEARING	1
42	813961	FH GEAR THRUST BEARING	1
43	813960	THRUST BEARING SPACER	1
44	813964	FL/FH SHAFT REAR BEARING	1
45	813965	FL/FH SHAFT PISTON RING	3


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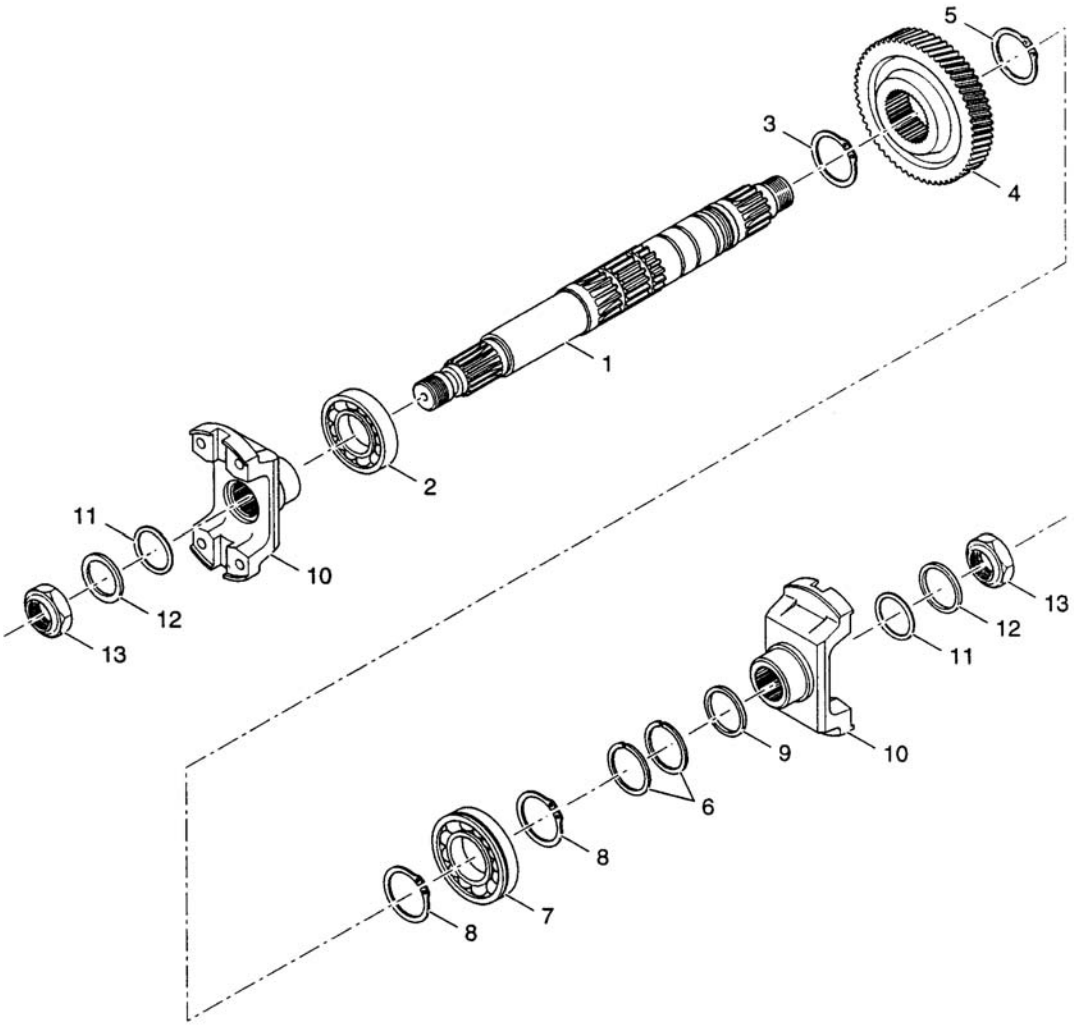
Ref. No.	Part No.	Description	Qty. Req.
01	813966	DRUM & PLUG ASY.	1
02	813940	PISTON & SEALS ASY. *(includes items 3 and 4)*	1
03	813941	PISTON OUTER SEAL *(included in item 2)*	1
04	813942	PISTON INNER SEAL. *(includes item 2)*	1
05	813943	PISTON WEAR PLATE	1
06	813945	PISTON RETURN SPRING	1
07	813946	SPRING RETAINER	1
08	813933	RETAINER SNAP RING	1
09	813934	OUTER HALF DISC	1
10	813935	INNER DISC	8
11	813936	OUTER DISC	7
12	813934	OUTER HALF DISC	1
13	813937	END PLATE AND SEAL ASY *(includes item 14)*	1
14	813938	BACKING PLATE SEAL *(included in item 13)*	1
15	813939	PLATE SNAP RING.	1
16	813940	PISTON & SEALS ASY.. *(includes items 17 and 18)*	1
17	813941	PISTON OUTER SEAL *(included in item 16)*	1
18	813942	PISTON INNER SEAL. *(included in item 16)*	1
19	813943	PISTON WEAR PLATE	1
20	813967	RETURN SPRING *(bellevile washer)*	1
21	813933	SNAP RING	1
22	813934	OUTER HALF DISC	1
23	813947	INNER DISC	8
24	813948	OUTER DISC	7
25	813934	OUTER HALF DISC	1
26	813949	MODULATION SPRING	1
27	813950	DISC BACKING PLATE.	1
28	813939	PLATE SNAP RING.	1
29	809020	BEARING SNAP RING	1
30	813954	REV. CLUTCH GEAR *(54T)*	1
31	813955	R GEAR LOCATING RING	2
32	813956	R GEAR INNER BEARING	1
33	813957	R GEAR OUTER BEARING *(shield out)*	1
34	809020	BEARING SNAP RING	1
35	813968	REV. DRIVEN GEAR *(50T)*	1
36	813959	R/1 SHAFT FRONT BEARING	1
37	813969	1ST CLUTCH GEAR *(30T)*	1
38	813970	BEARING LOCATING RING	2
39	813971	1ST GEAR INNER BEARING	1
40	813972	1ST GEAR OUTER BEARING *(shield out)*	1
41	813973	BEARING SNAP RING	1
42	813974	R/1 SHAFT REAR BEARING	1
43	813965	R/1 SHAFT PISTON RING	3


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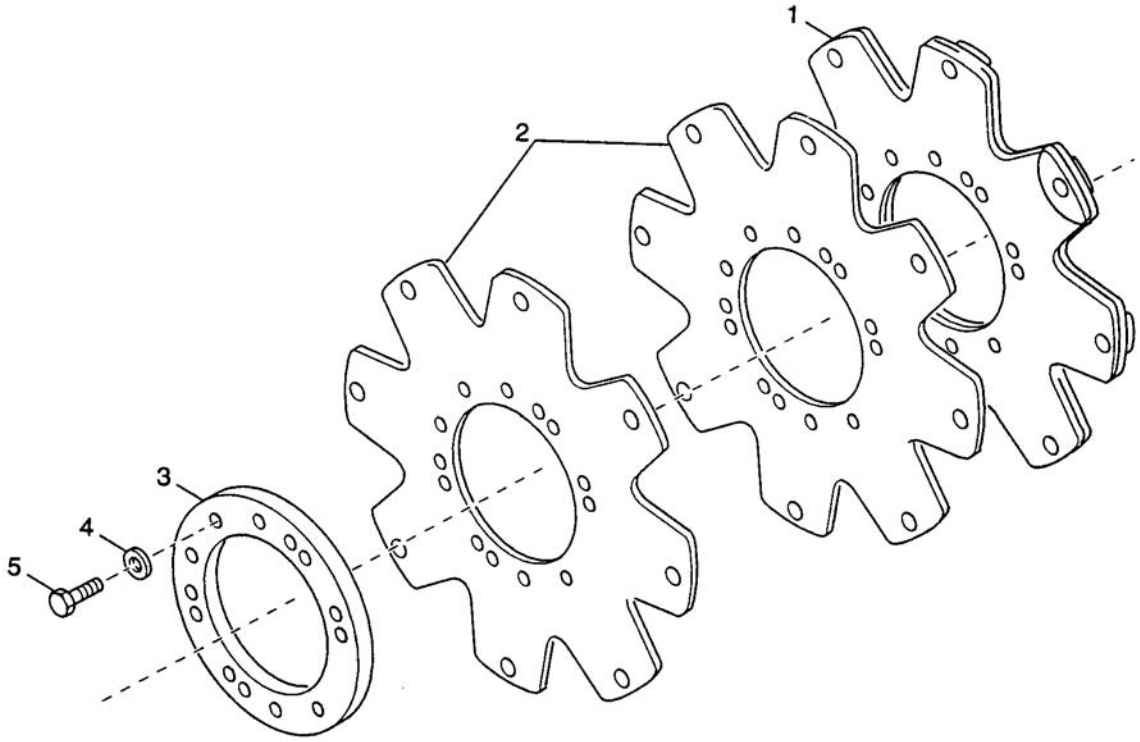
Ref. No.	Part No.	Description	Qty. Req.
01	813975	2ND SHAFT, HUB DRUM & PLUG ASY.	1
02	813940	PISTON & SEALS ASY. *(includes items 3 and 4)*	1
03	813941	PISTON OUTER SEAL *(part of item 2)*	1
04	813942	PISTON INNER SEAL *(part of item 2)*	1
05	813943	PISTON WEAR PLATE	1
06	813945	PISTON RETURN SPRING	1
07	813946	SPRING RETAINER	1
08	813933	RETAINER SNAP RING	1
09	813934	OUTER HALF DISC	1
10	813935	CLUTCH INNER DISC	8
11	813936	CLUTCH OUTER DISC	7
12	813934	OUTER HALF DISC	1
13	813949	MODULATION SPRING	1
14	813950	DISC BACKING PLATE	1
15	813939	BACKING PLATE SNAP RING	1
16	813976	2ND CLUTCH GEAR *(52T)*	1
17	813970	BEARING LOCATING RING	2
18	813971	2ND GEAR INNER BEARING	1
19	813972	2ND GEAR OUTER BRG. *(shield out)*	1
20	813977	BEARING SUPPORT WASHER	1
21	813978	2ND SHAFT FRONT BEARING	1
22	813965	2ND SHAFT PISTON RING	2
23	813979	GEAR RETAINER SNAP RING	1
24	813980	LOWER OUTPUT DRIVE GEAR *(41T)*	1
25	813981	UPPER OUTPUT DRIVE GEAR *(59T)*	1
26	813982	2ND SHAFT REAR BEARING	1
27	813983	OUTPUT FLANGE WASHER	1
28	813984	OUTPUT FLANGE NUT	1



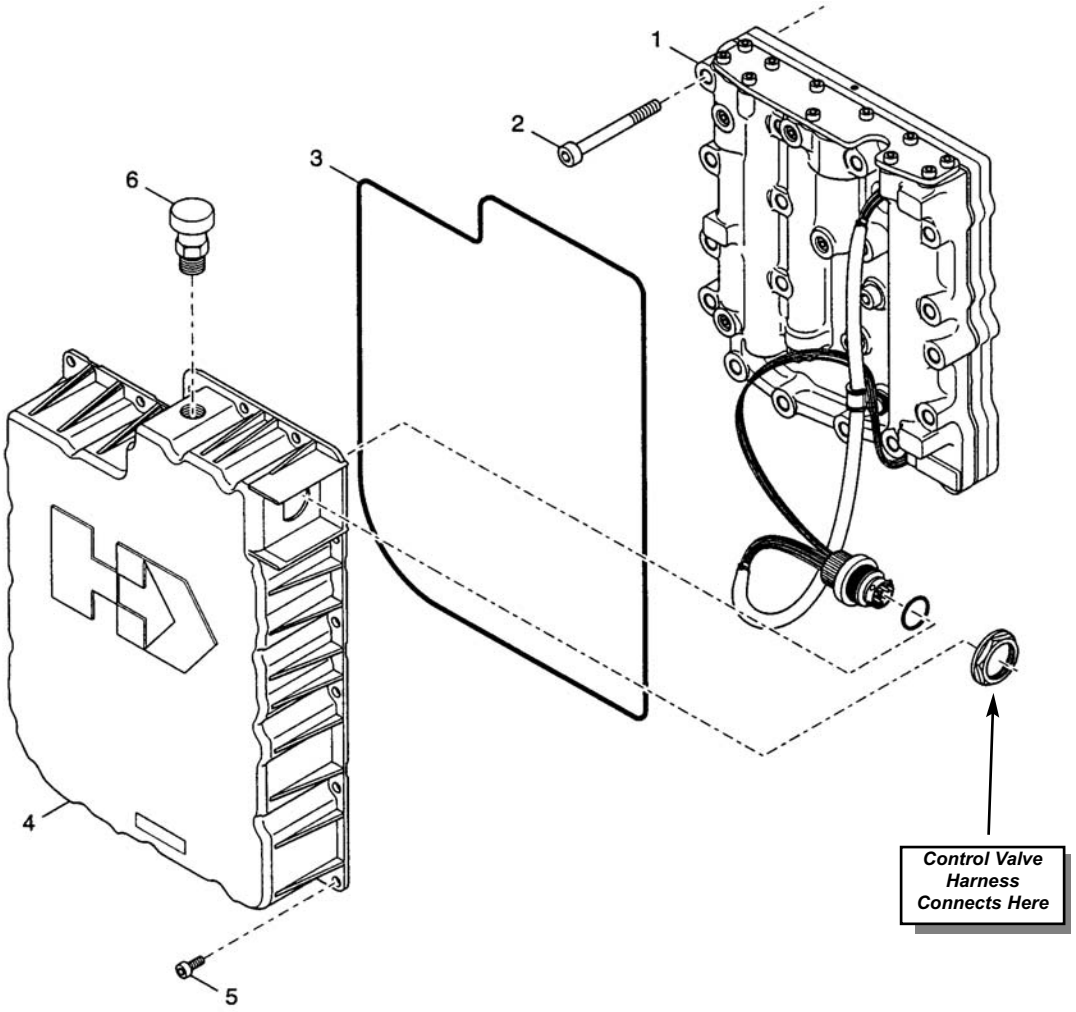
Ref. No.	Part No.	Description	Qty. Req.
01	813985	INPUT SHAFT	1
02	813986	F/L GEAR SNAP RING	1
03	813987	FWD/LOW GEAR *(26T)*	1
04	809020	GEAR SNAP RING	1
05	809132	BEARING SNAP RING	1
06	813974	SHAFT FRONT BEARING	1
07	813965	SHAFT PISTON RING	1
08	809020	F/H GEAR SNAP RING	1
09	813988	FWD/HIGH GEAR *(62T)*	1
10	813978	INPUT SHAFT REAR BRG	1
11	813965	SHAFT PISTON RING	1



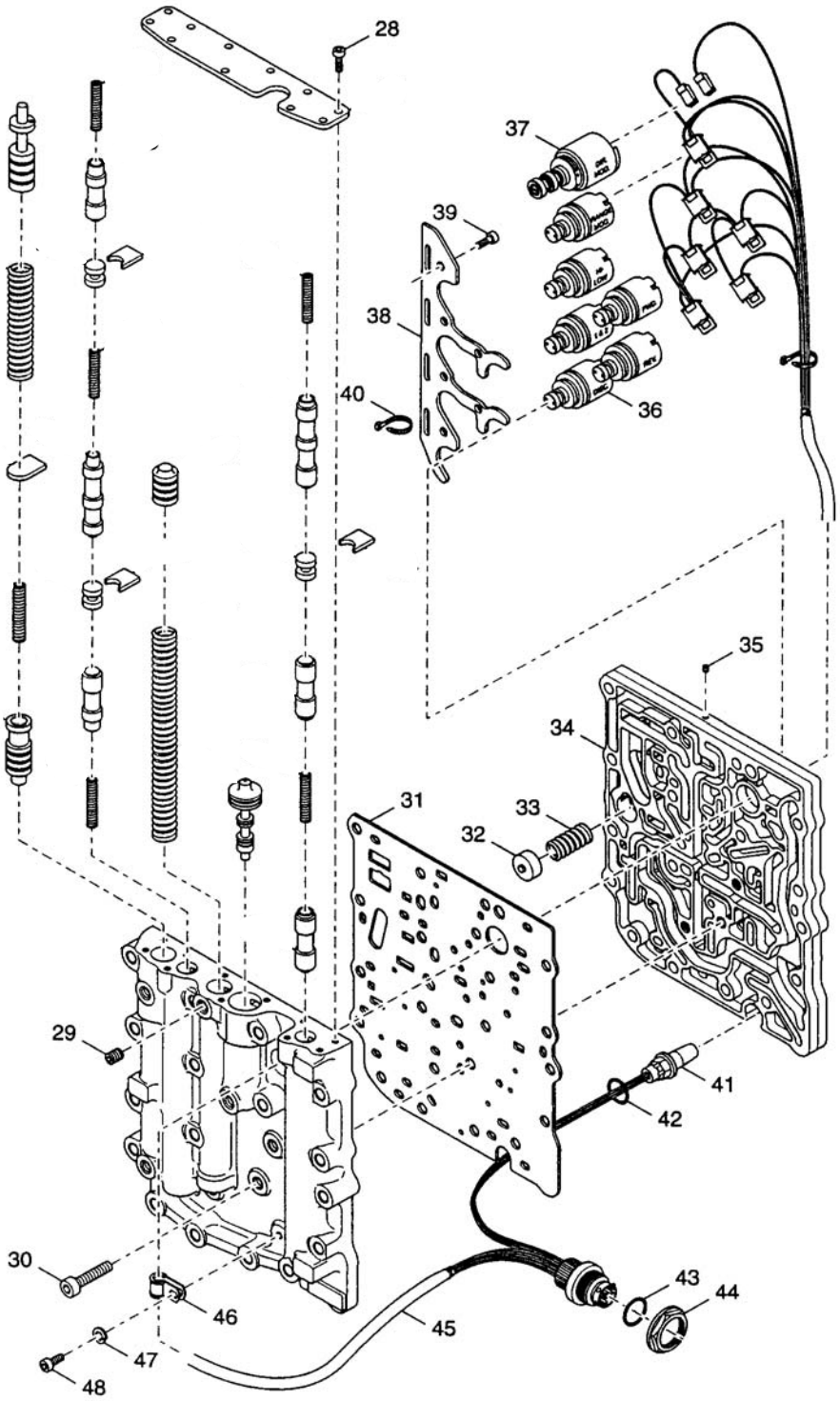
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	813988	OUTPUT SHAFT ASY.	1	08	813994	SNAP RING	1
02	813989	SHAFT FRONT BEARING	1	09	813995	OUTPUT FLANGE SPACER	1
03	813990	SNAP RING	1	10	813996	OUTPUT FLANGE	2
04	813991	OUTPUT SHAFT GEAR	1	11	813997	FLANGE O-RING	2
05	813990	SNAP RING	1	12	813983	FLANGE WASHER	2
06	813992	SHAFT PISTON RING	2	13	813984	FLANGE NUT	2
07	813993	SHAFT REAR BEARING	1				



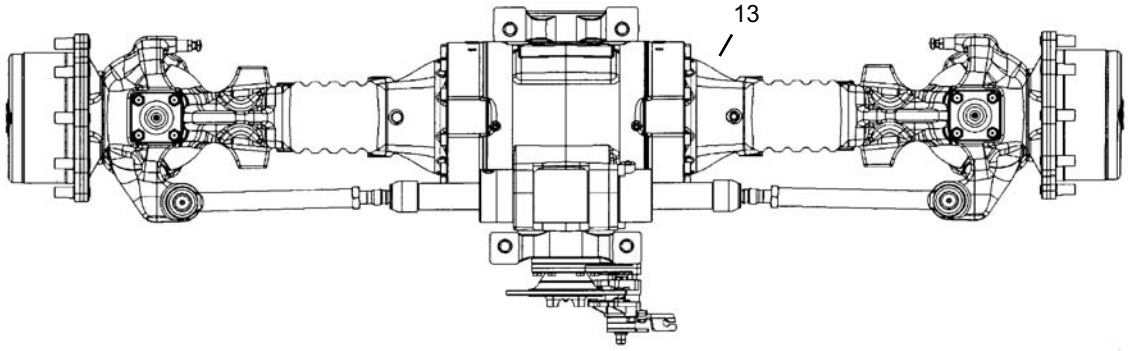
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	813999	DRIVE PLATE ASY. . . . . 1 *(includes items 2-5)*		03	813998	PLATE BACKING RING 1	
02	NSS	DRIVE PLATE *(includes item 1)* . . . 2		04	809097	SCREW LOCKWASHER. 6	
				05	809133	MOUNTING SCREW. 6	

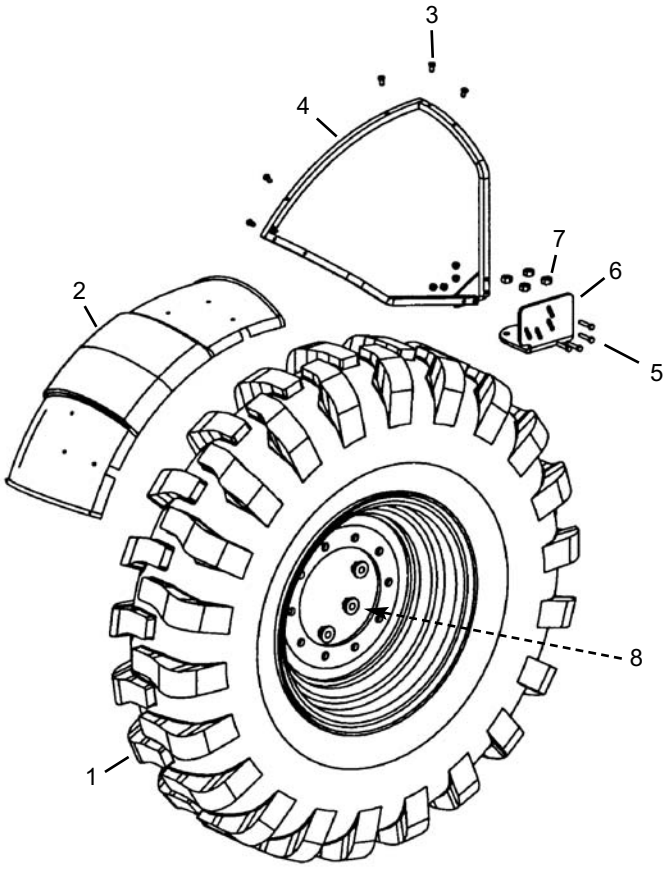


Ref. No.	Part No.	Description	Qty. Req.
01	814001	CONTROL VALVE ASSEMBLY. . . .	1
02	814002	VALVE MOUNTING SCREW	2
03	814003	PROTECTION COVER SEAL	1
04	814004	PROTECTION COVER ASY. . . . . *(includes item 6)*	1
05	814005	COVER SCREW	20
06	808953	AIR BREATHER . . . . . *(part of item 4)*	1

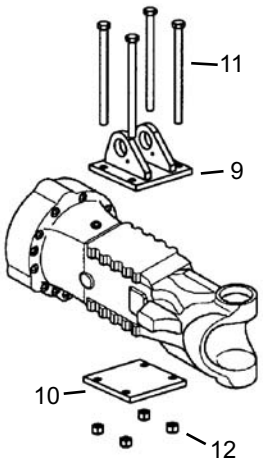

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Ref. No.	Part No.	Description	Qty. Req.
00	814006	CONTROL VALVE ASSEMBLY.	1
28	814007	COVER SCREW	11
29	814008	CHECK PORT PLUGS	2
30	814009	SOL. PLATE SCREW	3
32	814010	BYPASS VALVE SPOOL	1
33	814011	VALVE SPRING	1
35	814012	PLUG	6
36	814013	SOLENOID	6
37	814014	ELEC. CONTL. MODULE VALVE	1
39	814007	CLAMP SCREW	6
40	814015	WIRING STRAP	6
42	814016	SENSOR O-RING	1
41	NSS	SPEED SENSOR *(included w/#45)*	1
42	814016	SENSOR O-RING	1
43	814017	JAM NUT O-RING	1
44	NSS	JAM NUT *(included w/#45)*	1
45	814018	HARNESS & SPEED SENSOR ASSEMBLY *(includes items 41-44)*	1
46	814019	WIRING CLAMP	1
47	814020	SCREW LOCKWASHER	1
48	814007	CLAMP SCREW	1

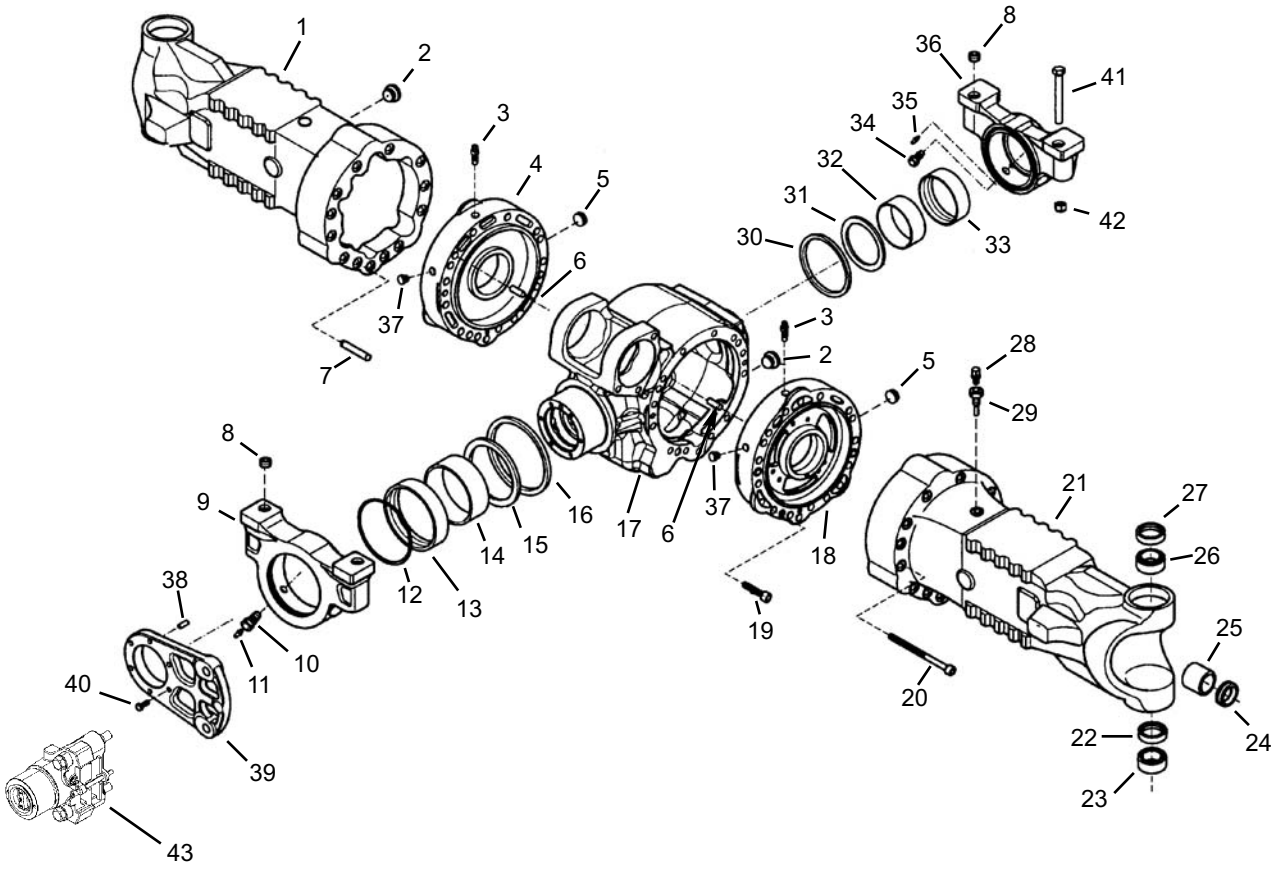




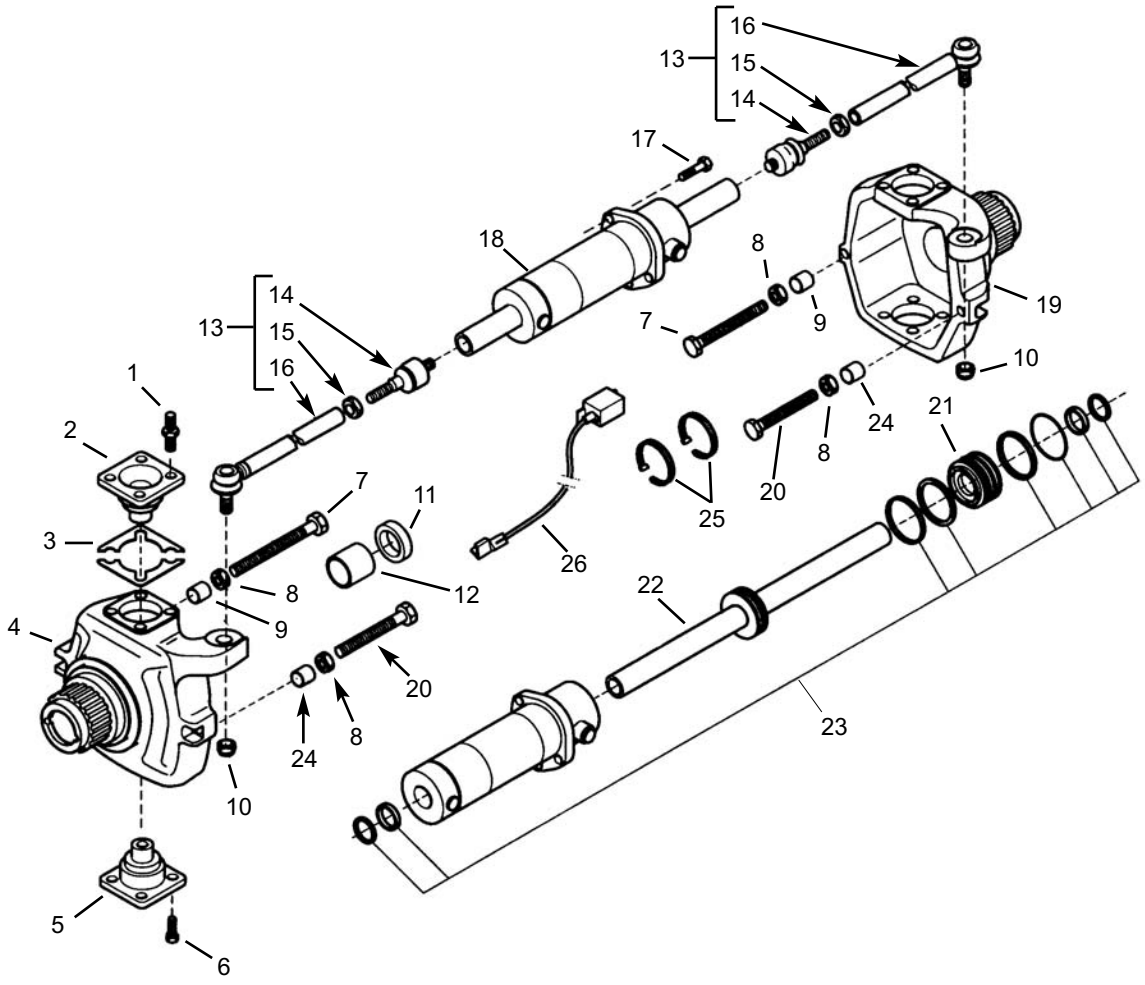
Driveshafts are located in transmission section of this parts manual.



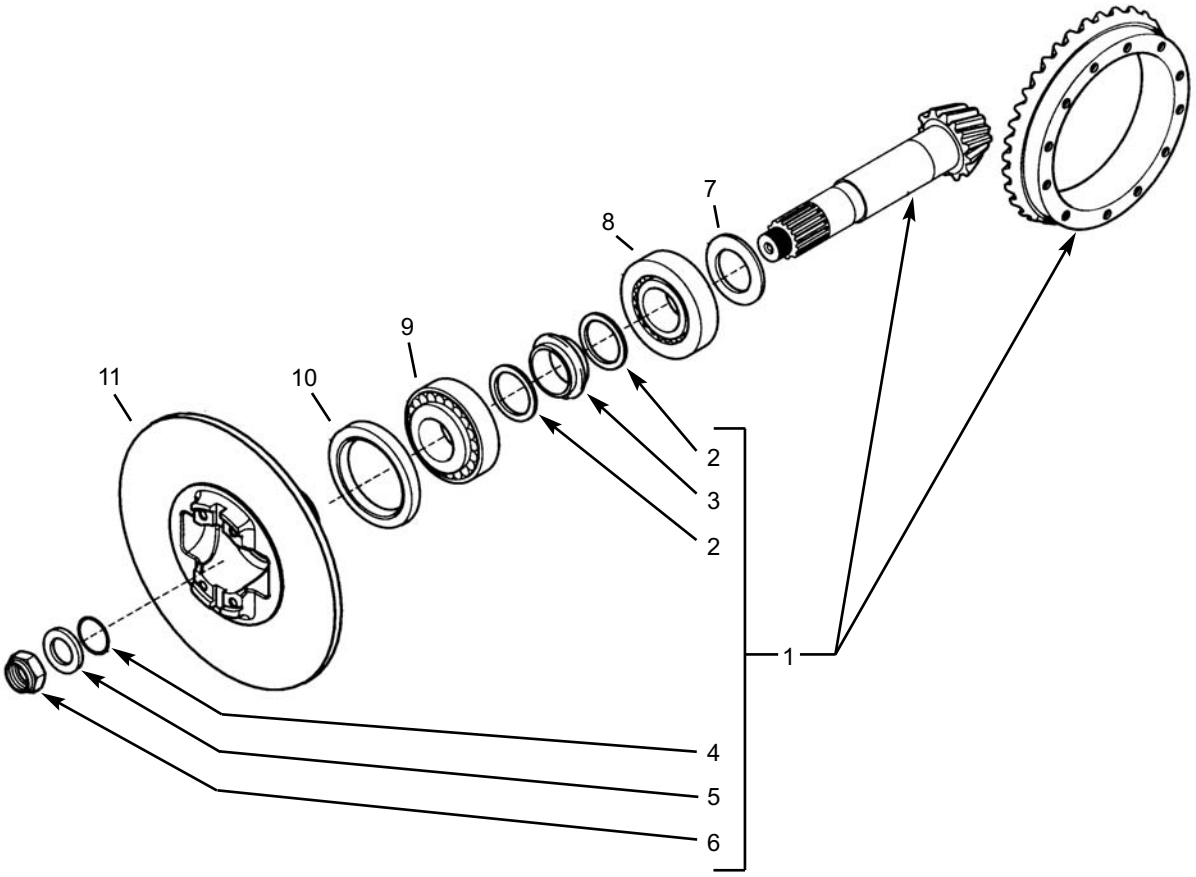
Ref. No.	Part No.	Description	Qty. Req.
NOTE: All quantities are per axle.			
01[a]		13.00X24 TIRE SET	
	808472	TIRE, 13.00 x 24TG 12PLY	4
	814698	WHEEL, 24 x 9.00 GR	4
01[a]		13.00 x 24 TIRE SET *(rock)*	
	809233	TIRE, 13.00 x 24 12PLY ROCK	4
	814698	WHEEL, 24 x 9.00 GR	4
01[a]		13.00 x 24 TIRE SET*(foam filled)*	
	808472	TIRE, 13.00 x 24TG 12PLY	4
	814698	WHEEL, 24 x 9.00 GR	4
01		14.00 x 24 TIRE SET	
	814021	TIRE, 14.00 x 24TG 12PLY	4
	814698	WHEEL, 24 x 9.00 GR	4
01		14.00 x 24 TIRE SET*(rock)*	
	814022	TIRE 14.00 x 24 ROCK	4
	814023	WHEEL, 10.00VA x 24	4
01		14.00 x 24 TIRE SET*(foam filled)*	
	814021	TIRE, 14.00 x 24TG 12PLY	4
	814698	WHEEL, 24 x 9.00 GR	4
01[b]	814024	13 x 24 SOLID TIRE/WHEEL SET	4
02	809164	FENDER	4
03	808607	3/8-16 x 3/4” BUTTON HD BOLT	12
04		FENDER MOUNT *(fender)*	
		(Round Tubing - Late Style)	
	814025	*(Right Front / Left Rear)*	2
	814026	*(Left Front / Right Rear)*	2
		(Square Tubing - Early Style)	
	814027	*(Right Front / Left Rear)*	2
	814028	*(Left Front / Right Rear)*	2
05	814029	3/8-16 x 1-3/4” BOLT	8
06		FENDER MOUNT *(axle)*	2
	813030	*(Right Front / Left Rear)*	2
	813031	*(Left Front / Right Rear)*	2
07	813032	M16-2.00 NUT	8
08	808876	M22 x 1.5 WHEEL NUT	20
09[c]		LEVEL/STABILIZER MOUNT	1
10	813033	LEVEL/STABILIZER PLATE	1
11	813034	3/4-10 x 11 BOLT	4
12	808583	3/4”-10 NUT	4
13		AXLE	
	813035	FRONT	1
	813036	REAR	1


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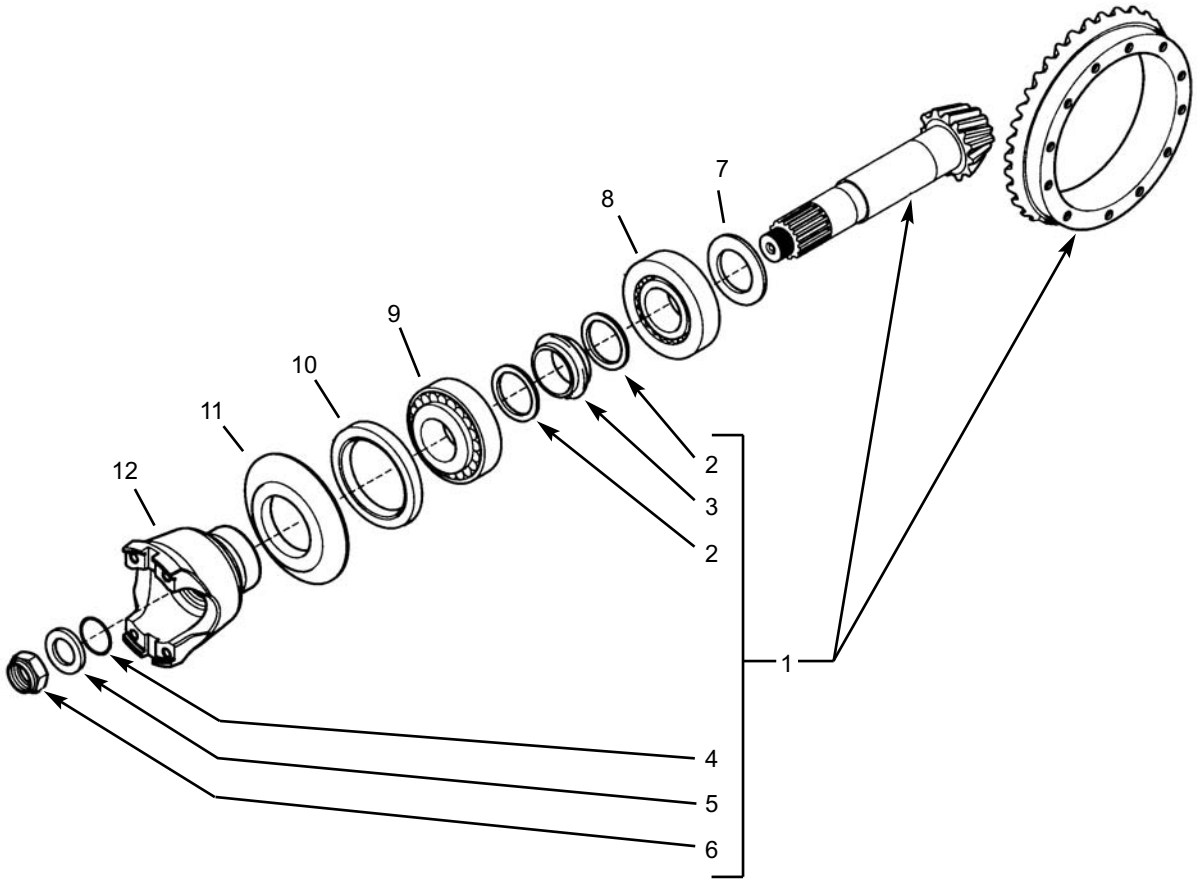
Ref. No.	Part No.	Description	Qty. Req.
NOTE: All quantities are per axle.			
01	814037	LEG HOUSING	1
		[front axle (left), rear axle (right)]	
02	814038	PLUG M30 x 2	2
03	814039	BREATHER M10 x 1	2
04	814040	BRAKE CYLINDER	1
		[front axle (left), rear axle (right)]	
05	814041	PLUG M24 x 1.5	2
06	814042	PIN D16 x 40	4
07	814043	PIN	6
08	814044	BUSHING	4
09	813045	SUPPORT	1
		[front axle (rear), rear axle (front)]	
10	813046	BOLT	1
11	813047	ZERK, GREASE M6 x 1	1
12	813048	O-RING	1
13	813049	BUSHING	1
14	813050	BUSHING	1
15	813051	THRUST WASHER	1
16	813052	RING	1
17	813053	CENTRAL BODY	1
18	813054	BRAKE CYLINDER	1
		[*front axle (right), rear axle (left)]*	
19	813055	BOLT M16x65	4
20	813056	BOLT M16x160	26
21	813057	LEG HOUSING	1
		[*front axle (right), rear axle (left)]*	
22	813058	SEAL RING	2
23	813059	BEARING	2
24	813060	SEAL	2
		(dimensions 48mmX65mmX16.5mm)	
25	813061	BUSHING	2
26	813062	BEARING	2
27	813063	SEAL RING	2
28	813064	BREATHER M10 x 1	1
29	813065	BREATHER EXTENSION	1
30	813066	SEAL RING	1
31	813067	THRUST WASHER	1
32	813068	BUSHING	1
33	813069	BUSHING	1
34	813070	BOLT	1
35	813071	ZERK/GREASE M8x1	1
36	813072	SUPPORT	1
		[front axle (front), rear axle (rear)]	
37	813073	PLUG	2
38	813074	PIN D10 x 25	1
		(front axle - only)	
39	813075	BRAKE CALIPER SUPPORT	1
		(front axle - only)	
40	813076	BOLT M10 x 35	6
		(front axle - only)	
41	813077	M20-2.50 x 150 BOLT	4
42	808599	NUT, M20-2.5	4
43	813078	BRAKE CALIPER ASY	1
		(front axle - only)	
		(See Axle - Park Brake Caliper Asy. for more information.)	


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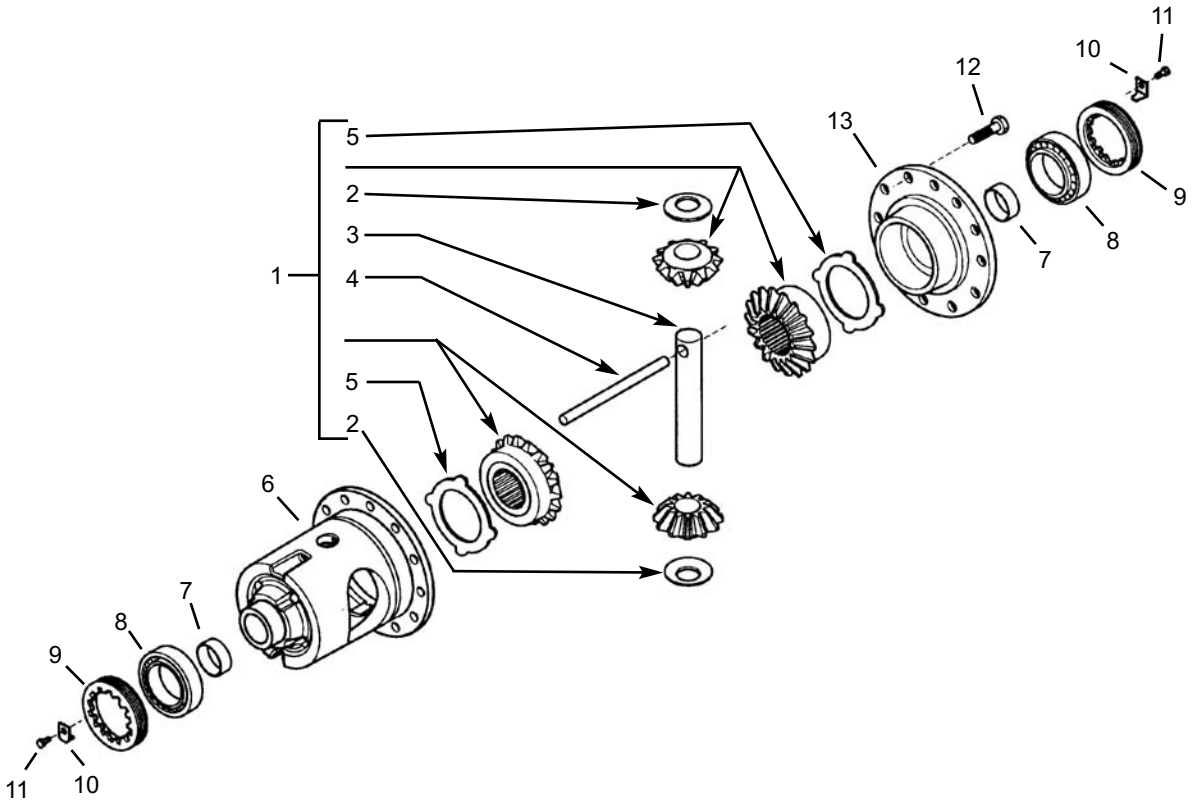
Ref. No.	Part No.	Description	Qty. Req.
	NOTE: All quantities are per axle.		
01	814080	SPECIAL BOLT M16x38	8
02	814081	UPPER KIN PIN	2
03		SHIM	AR
	814082	0.15mm	
	814083	0.20mm	
	814084	0.50mm	
04	814085	SWIVEL HOUSING *[front axle (left), rear axle (right)]*	1
05	814086	LOWER KING PIN	2
06	814087	BOLT M16 x 38	8
07	814088	BOLT M16 x 130	2
08	814089	NUT M16	4
09	814090	BUSHING	2
10	814091	NUT M27 x 1.5	2
11	814092	SEAL RING	2
12	814093	BUSHING	2
13	814094	STEERING ARM ASSEMBLY	2
14	814095	BALL JOINT	2
15	814096	NUT M28 x 1.5	2
16	813097	TIE ROD	2
17	814098	BOLT M16 x 45	3
18		STEERING CYLINDER	1
	814099	*(front axle)*	
	814100	*(rear axle)*	
19	814101	SWIVEL HOUSING *[front axle (right), rear axle (left)]*	1
20	814102	BOLT M16x100	2
21	814103	CYLINDER HEAD	1
22	814104	ROD	1
23		SEAL KIT	1
	814105	*(front axle)*	
	814106	*(rear axle)*	
24	814107	BUSHING	2
25	814108	CLAMP *(rear axle - only)*	2
26	814109	SENSOR *(rear axle - only)*	1



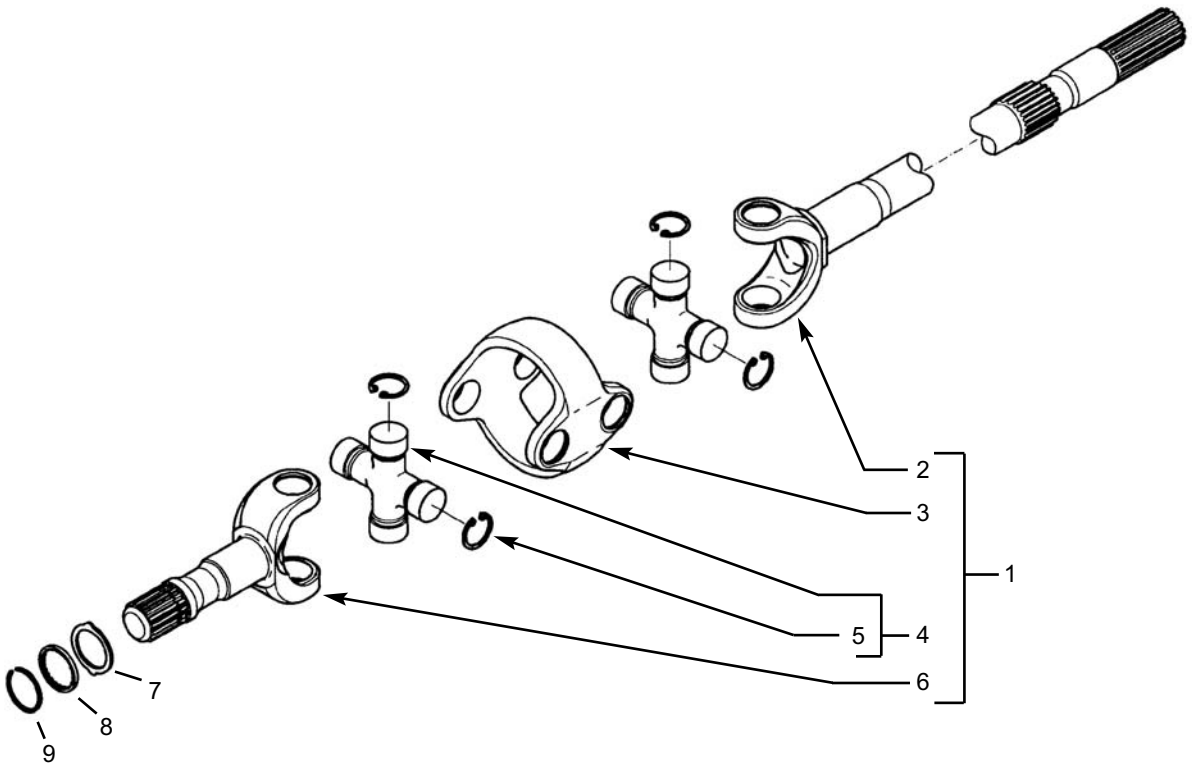
Ref. No.	Part No.	Description	Qty. Req.
01	814110	BEVEL GEAR / PINION Z10/36	1
02	814111	WASHER	2
03	814112	COLLAPSIBLE SPACER	1
04	814113	O-RING	1
05	814114	WASHER	1
06	814115	NUT M30x2	1
07	814116	SHIM 2.5mm	AR
	809420	SHIM 2.6mm	AR
	814117	SHIM2.7mm	AR
	814118	SHIM 2.8mm	AR
	814119	SHIM 2.9mm	AR
	814120	SHIM 3.0mm	AR
	814121	SHIM 3.1mm	AR
	814122	SHIM 3.2mm	AR
	814123	SHIM 3.3mm	AR
	814124	SHIM 3.4mm	AR
08	814125	BEARING	1
09	814126	BEARING	1
10	814127	SEAL RING	1
11	814128	FLANGE	1



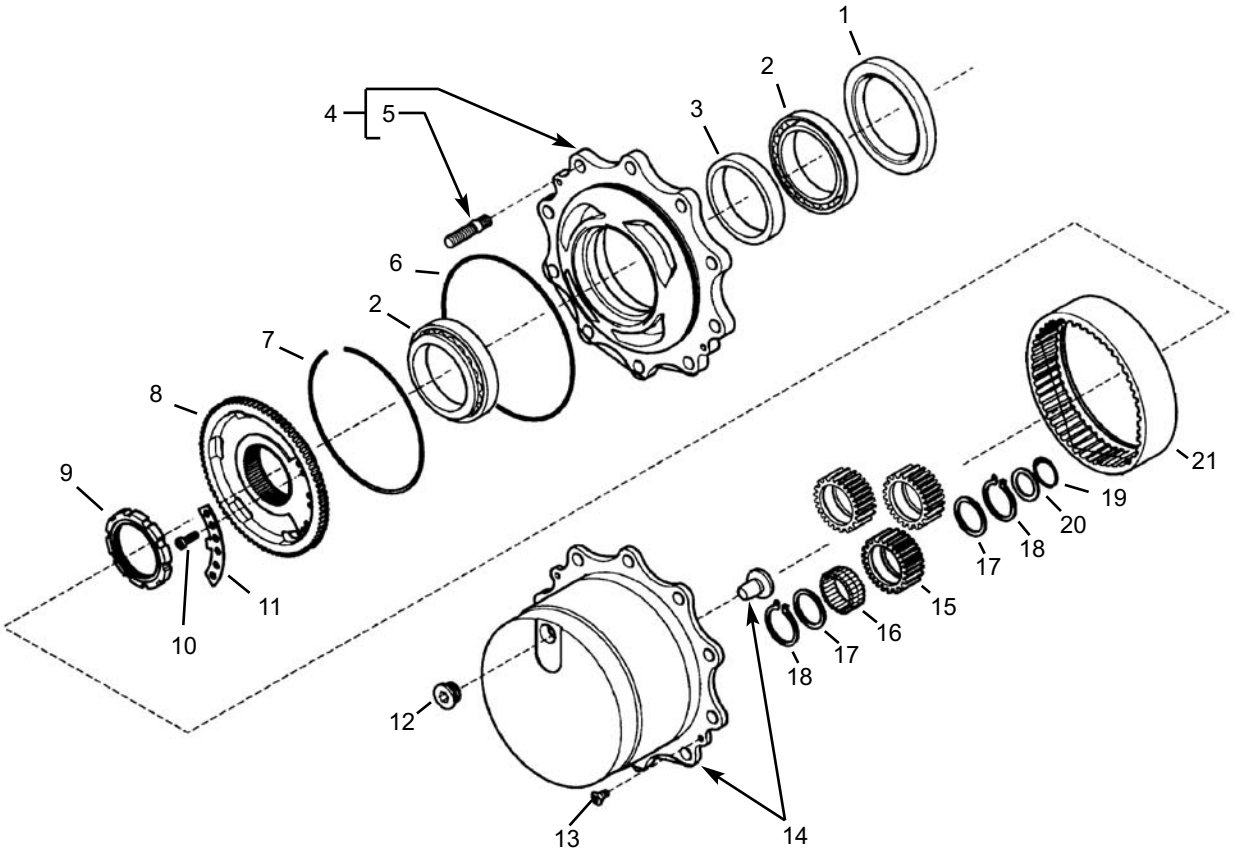
Ref. No.	Part No.	Description	Qty. Req.
01	814129	BEVEL GEAR / PINION Z10/36	1
02	814111	WASHER	2
03	814112	COLLAPSIBLE SPACER	1
04	814113	O-RING	1
05	814114	WASHER	1
06	814115	NUT M30x2	1
07	814116	SHIM 2.5mm	AR
	809420	SHIM 2.6mm	AR
	814117	SHIM2.7mm	AR
	814118	SHIM 2.8mm	AR
	814119	SHIM 2.9mm	AR
	814120	SHIM 3.0mm	AR
	814121	SHIM 3.1mm	AR
	814122	SHIM 3.2mm	AR
	814123	SHIM 3.3mm	AR
	814124	SHIM 3.4mm	AR
08	814125	BEARING	1
09	814126	BEARING	1
10	814127	SEAL RING	1
11	814130	PROTECTING COVER	1
12	814131	FLANGE	1



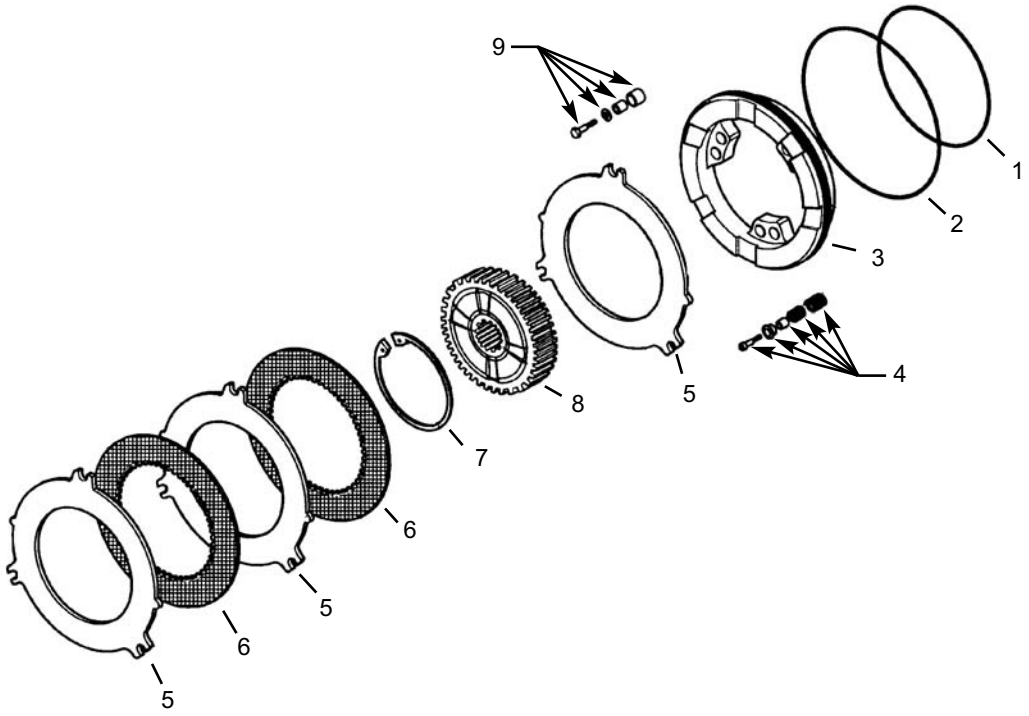
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
NOTE: All quantities are per axle.				07	814138	BUSH	2
01	814132	DIFFERENTIAL KIT	1	08	814139	BEARING	2
02	814133	THRUST WASHER	2	09	814140	RING NUT	2
03	814134	PIN	1	10	814141	LOCKING PLATE	2
04	814135	PIN D7 x 124	1	11	814142	BOLT M6 x 10	2
05	814136	COUNTER DISC	2	12	814143	BOLT	12
06	814137	DIFFERENTIAL HOUSING	1	13	814144	DIFF. HOUSING COVER	1



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
NOTE: All quantities are per axle.				05	814149	LOCK RING	16
01	814145	DOUBLE JOINT	2	06	814150	FORK *(wheel rim side)*	2
02	814146	FORK *(differential side)*	2	07	814151	THRUST WASHER	2
03	814147	CENTRAL BODY	2	08	814152	WASHER	2
04	814148	SPIDER	4	09	814153	LOCK RING	2

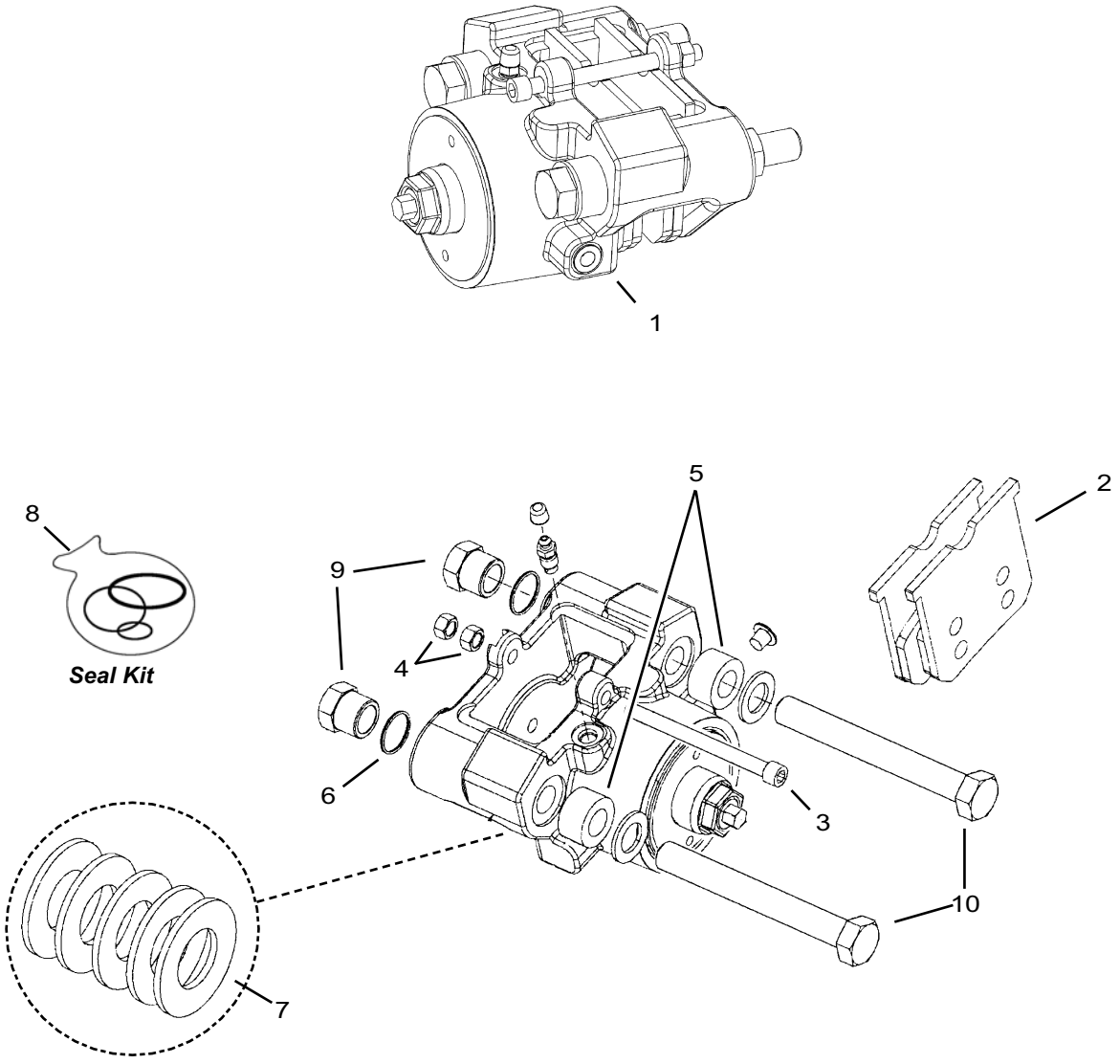


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
NOTE: All quantities are per axle.				11	814164	LOCKING PLATE	2
01	814154	SEAL RING	2	12	814038	PLUG M30 x 2	2
02	814155	BEARING	4	13	814165	BOLT	4
03	814156	SPACER	2	14	814166	PLANETARY CARRIER ASY	2
04	814157	WHEEL HUB KIT	2	15	814167	GEAR Z=31	6
05	814158	STUD	20	16	814168	BEARING	6
06	814159	O-RING	2	17	814169	THRUST WASHER	12
07	814160	LOCK RING	2	18	814170	SNAP RING D72	12
08	814161	WHEEL CARRIER	2	19	814171	SNAP RING D50	6
09	814162	RING NUT M90 x 2	2	20	814172	THRUST WASHER	6
10	814163	BOLT M10x12	6	21	814173	CROWN GEAR Z=81	2



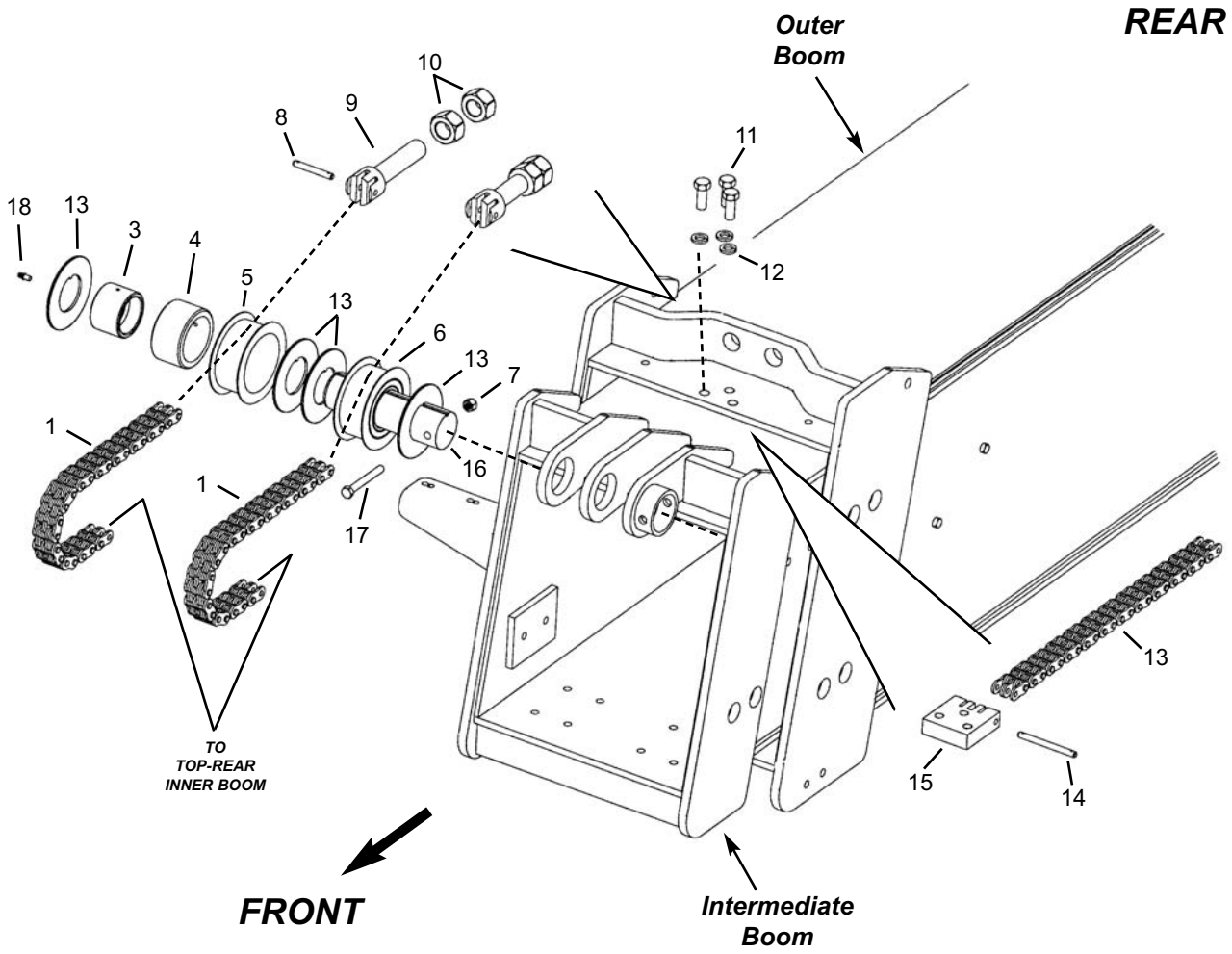
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
NOTE: All quantities are per axle.				05	814178	BRAKE COUNTER DISK	6
01	814174	O-RING	2	06	814179	BRAKE DISC	4
02	814175	O-RING	2	07	814180	SNAP RING D150	2
03	814176	BRAKE PISTON	2	08	814181	HUB	2
04	814177	SELF-ADJUST KIT	2	09	814182	SELF-ADJUST KIT	2

Parking Brake Caliper Assembly



Parking Brake Caliper Assembly

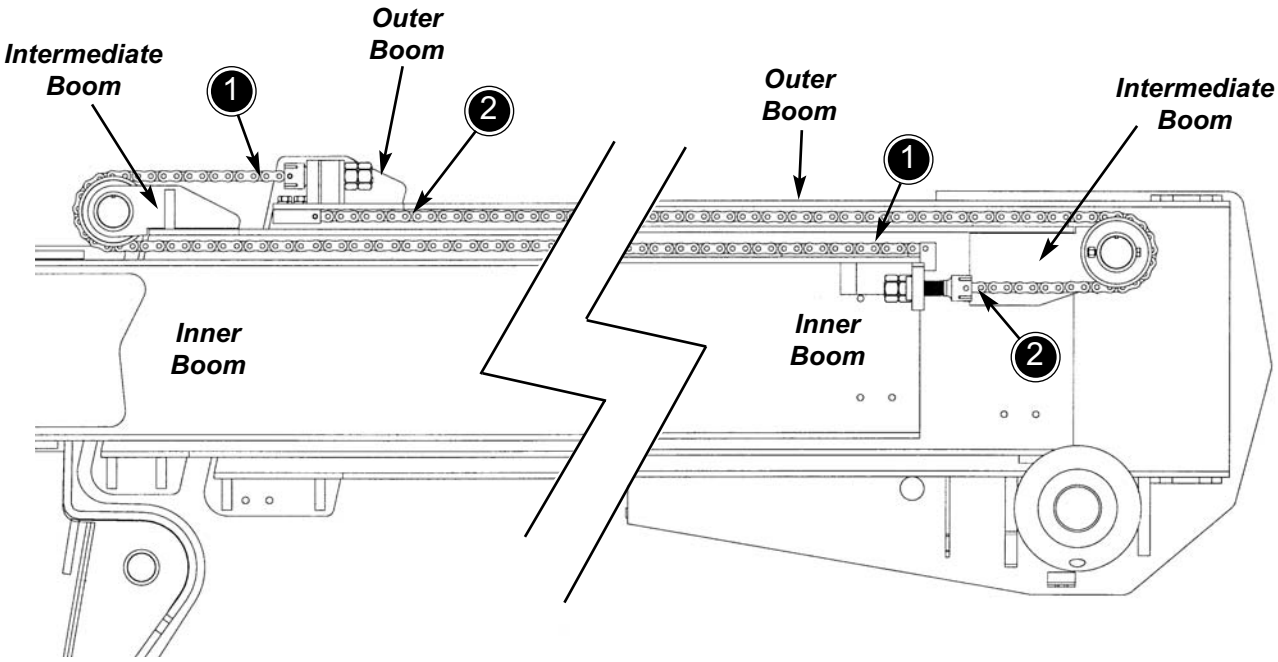
Ref. No.	Part No.	Description	Qty. Req.
01	814078	PARKING BRAKE CALIPER	1
02	814183	BRAKE PAD KIT *(includes items 2-4)*	1
03	NSS	BOLT *(included with item 2)*	1
04	NSS	NUT *(included with item 2)*	2
05	814184	URETHANE SPRING KIT *(consists of two urethane bushings)*	1
06	NSS	O-RING *(included with item 8)*	2
07	NSS	DISC SPRINGS	5
08	814185	SEAL KIT *(items in kit not shown)*	1
09	814186	JAMNUT / SLEEVE 3/4”-10	2
10	814187	BOLT, 3/4”-10 x 6” GR8	2
		-- ITEMS NOT SHOWN --	
00	814188	OVERHAUL KIT *(overhaul kit includes items 2-8)*	1

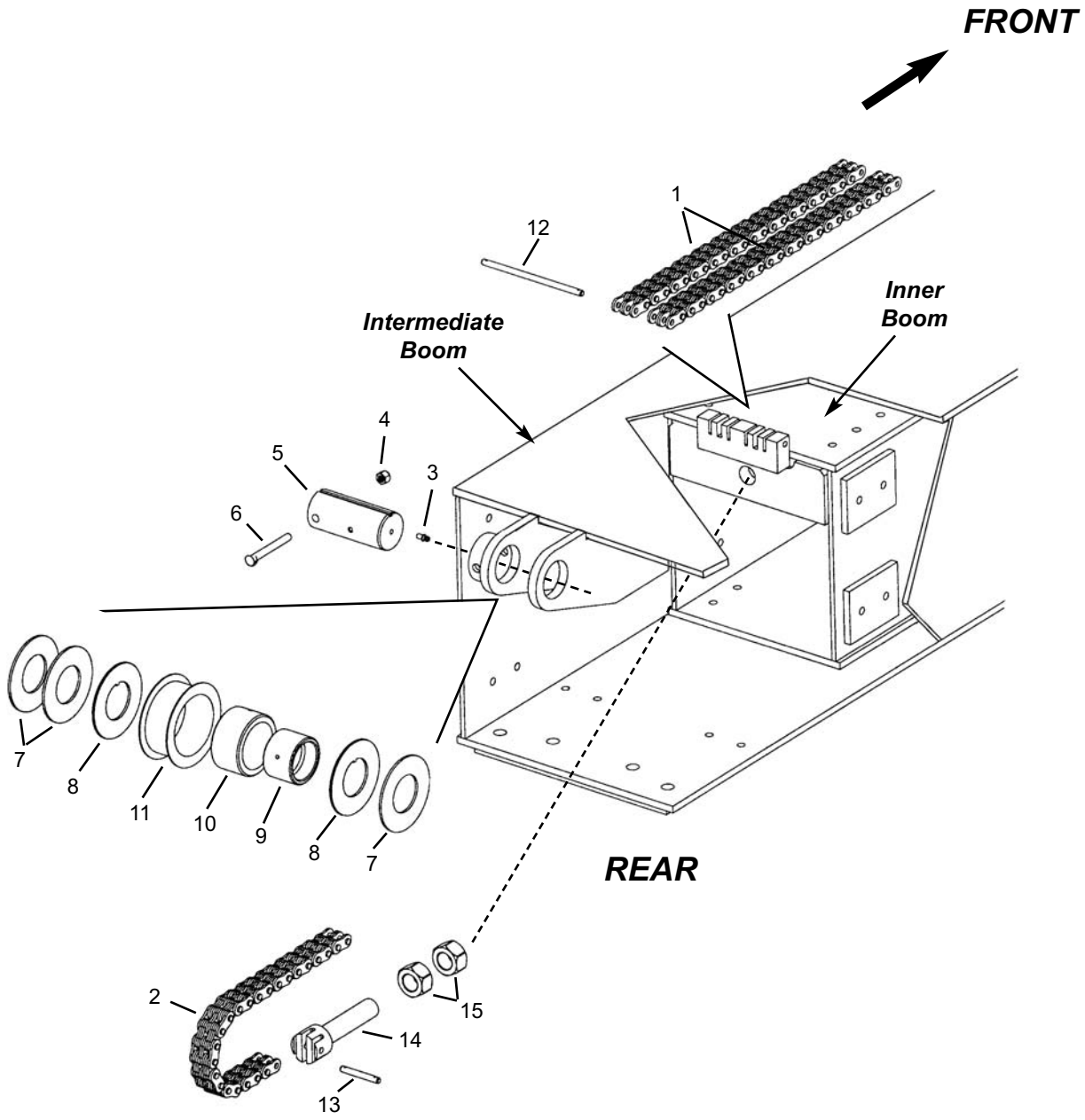

REAR
Outer Boom
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TO TOP-REAR INNER BOOM
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FRONT
Intermediate Boom

Ref. No.	Part No.	Description	Qty. Req.
01[a]		LEAF CHAIN	2
	814189	40' BOOM (*257 Pitches - 192-3/4")*	
	814190	44' BOOM (*277 Pitches - 207-3/4")*	
02[a]		LEAF CHAIN	1
	814189	40' BOOM (*257 Pitches - 192-3/4")*	
	814190	44' BOOM (*277 Pitches - 207-3/4")*	
03	808478	INNER RING	2
04	808477	ROLLER BEARING	2
05	814191	CHAIN SHEAVE	2
06	NSS	CHAIN SHEAVE ASSEMBLY *(order one of each: items 3-5)*	NA
07	808663	3/8" NYLON INSERT NUT	1
08	808760	PIN, ADJUSTABLE CLEVIS	2
	808673	3/32" x 1-1/4" COTTER PIN	4
09	808753	CLEVIS, ADJUSTABLE	2
10	808584	1" NUT	4
11	808619	1/2" x 1-1/4" BOLT GR8	3
12	813805	1/2" LOCK WASHER	3
13	808931	CHAIN SHEAVE WASHER	4
14	808762	PIN, LEAF CHAIN	1
	808673	3/32" x 1-1/4" COTTER PIN	2
15	808757	CLEVIS, REMOVABLE	1
16L	808930	PIN, CHAIN SHEAVE	1
17	813711	3/8" x 3" BOLT	1
18	808424	GREASE ZERK	1

a The three-section boom uses a total of three chains, all of which are identified on this page and the next page. When ordering boom chains, be careful to not duplicate these quantities.

Three-Section Boom

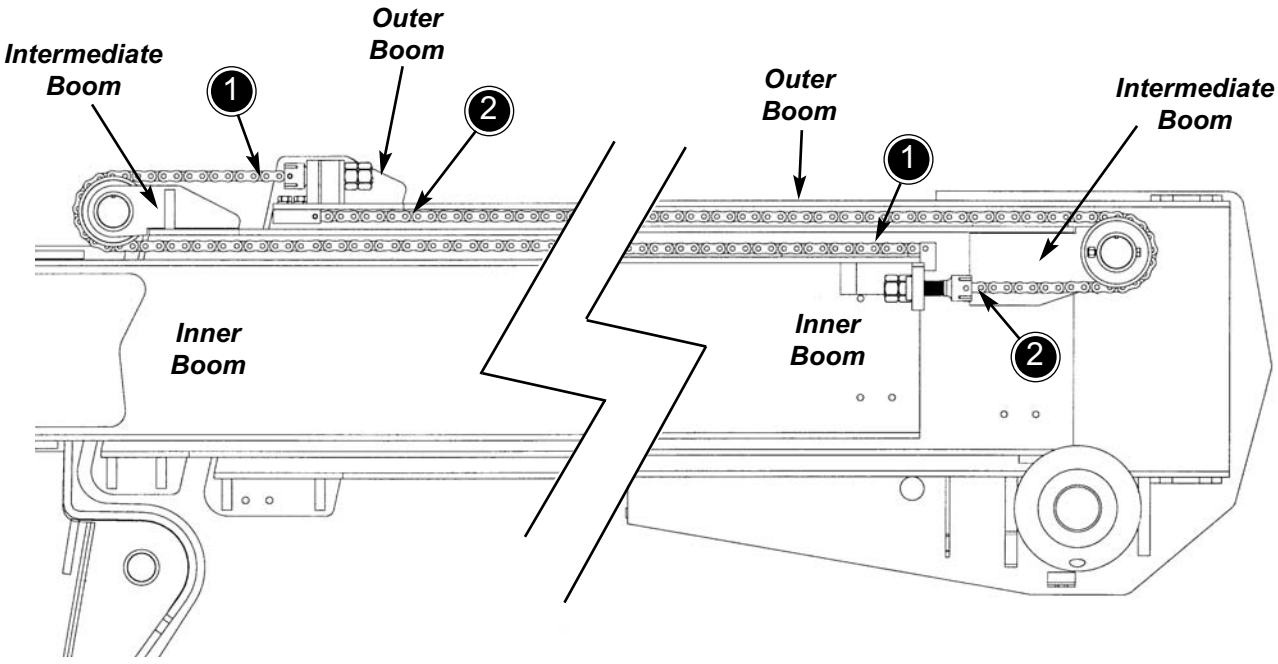


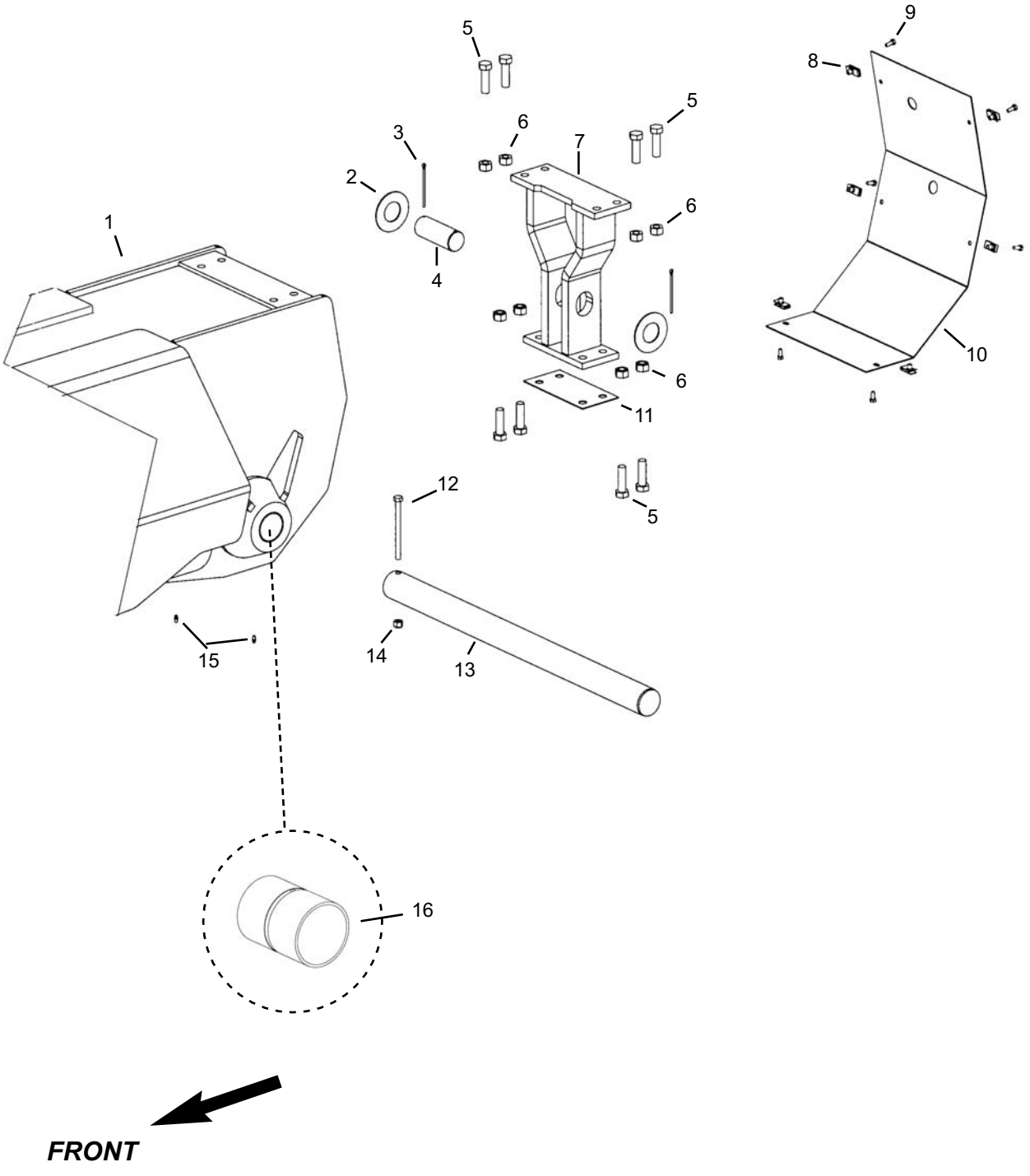

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Inner Boom
Intermediate Boom
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Ref. No.	Part No.	Description	Qty. Req.
01[a]		LEAF CHAIN	2
	814189	40' BOOM (*257 Pitches - 192-3/4")*	
	814190	44' BOOM (*277 Pitches - 207-3/4")*	
02[a]		LEAF CHAIN	1
	814189	40' BOOM (*257 Pitches - 192-3/4")*	
	814190	44' BOOM (*277 Pitches - 207-3/4")*	
03	808424	1/4"-28 ZERK, STR	1
04	808663	3/8"-16 NYLON INSERT NUT	1
05	808932	PIN, SHEAVE	1
06	813711	3/8"-16 x 3" BOLT	1
07	808429	THRUST WASHER	3
08	808931	CHAIN SHEAVE WASHER	2
09	808478	INNER RING	1
10	808477	ROLLER BEARING	1
11	808754	CHAIN SHEAVE	1
12	808761	PIN, FIXED CLEVIS	1
	808673	3/32" x 1-1/4" COTTER PIN	2
13	808760	CLEVIS PIN	1
14	808753	ADJUSTABLE CLEVIS	1
15	808584	1"-8 NUT	2

a The three-section boom uses a total of three chains, all of which are identified on this page and the previous page. When ordering boom chains, be careful to not duplicate these quantities.

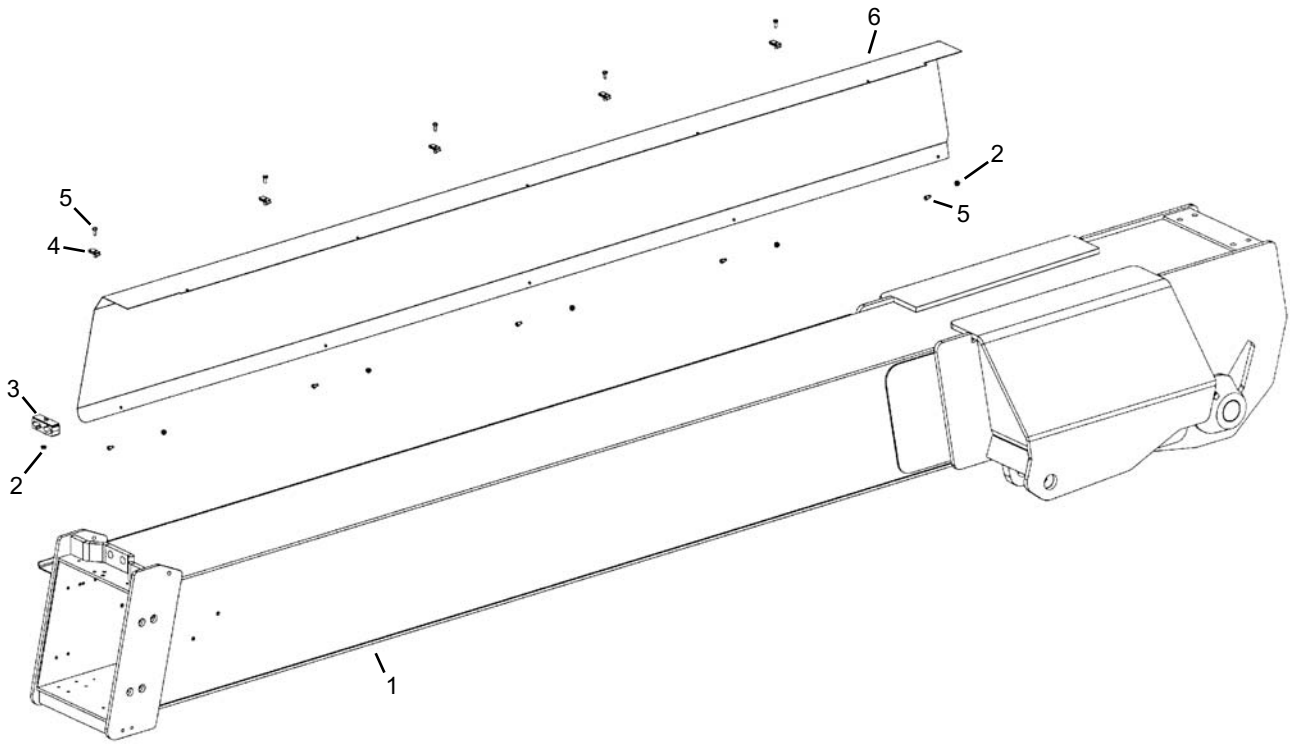
Three-Section Boom




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Outer Boom - Rear Section

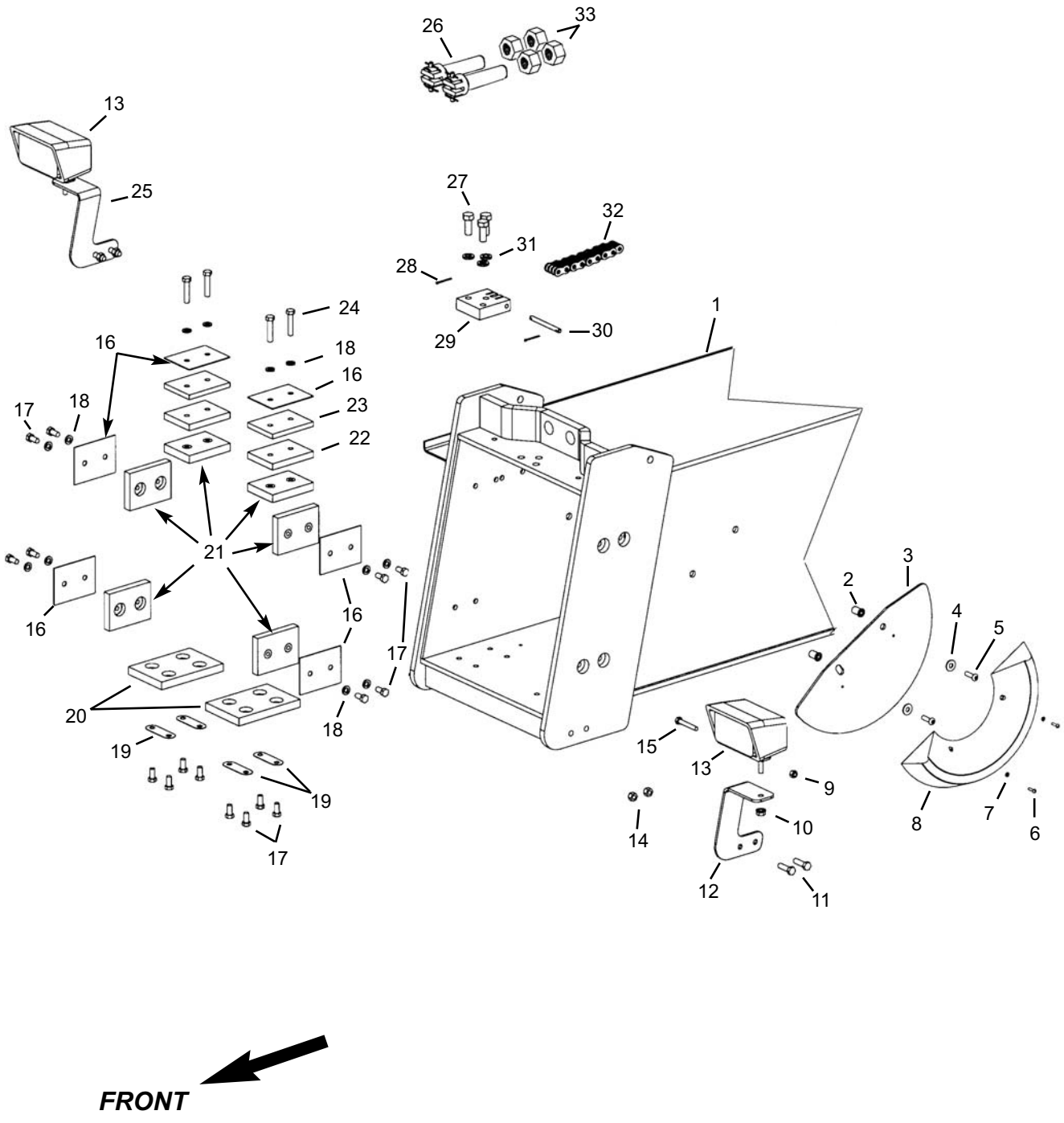
Ref. No.	Part No.	Description	Qty. Req.
01		OUTER BOOM WELDMENT	1
	814192	*40' High Boom*	
	814193	*44" High Boom*	
02	808429	THRUST WASHER	2
03	808631	3/16" x 4" COTTER PIN	2
04	808888	EXTEND CYLINDER PIN	1
05	814194	3/4"-10 x 2-1/2" BOLT	8
06	808626	3/4"-10 NYLON INSERT NUT	8
07	814195	EXT. CYL. MOUNT WLDMNT	1
08	808671	5/16" CLIP RETAINING NUT	6
09	808498	5/16"-18 x 3/4" BOLT	6
10	814196	REAR BOOM COVER	1
11	808904	TRUNION SHIM	1
12	814197	1/2"-13 x 6" BOLT	1
13	814198	BOOM PIVOT PIN	1
14	808665	1/2"-13 NYLON INSERT NUT	1
15	808424	1/4"-28 ZERK, STRAIGHT	2
16	814199	BUSHING, PIVOT PIN	2


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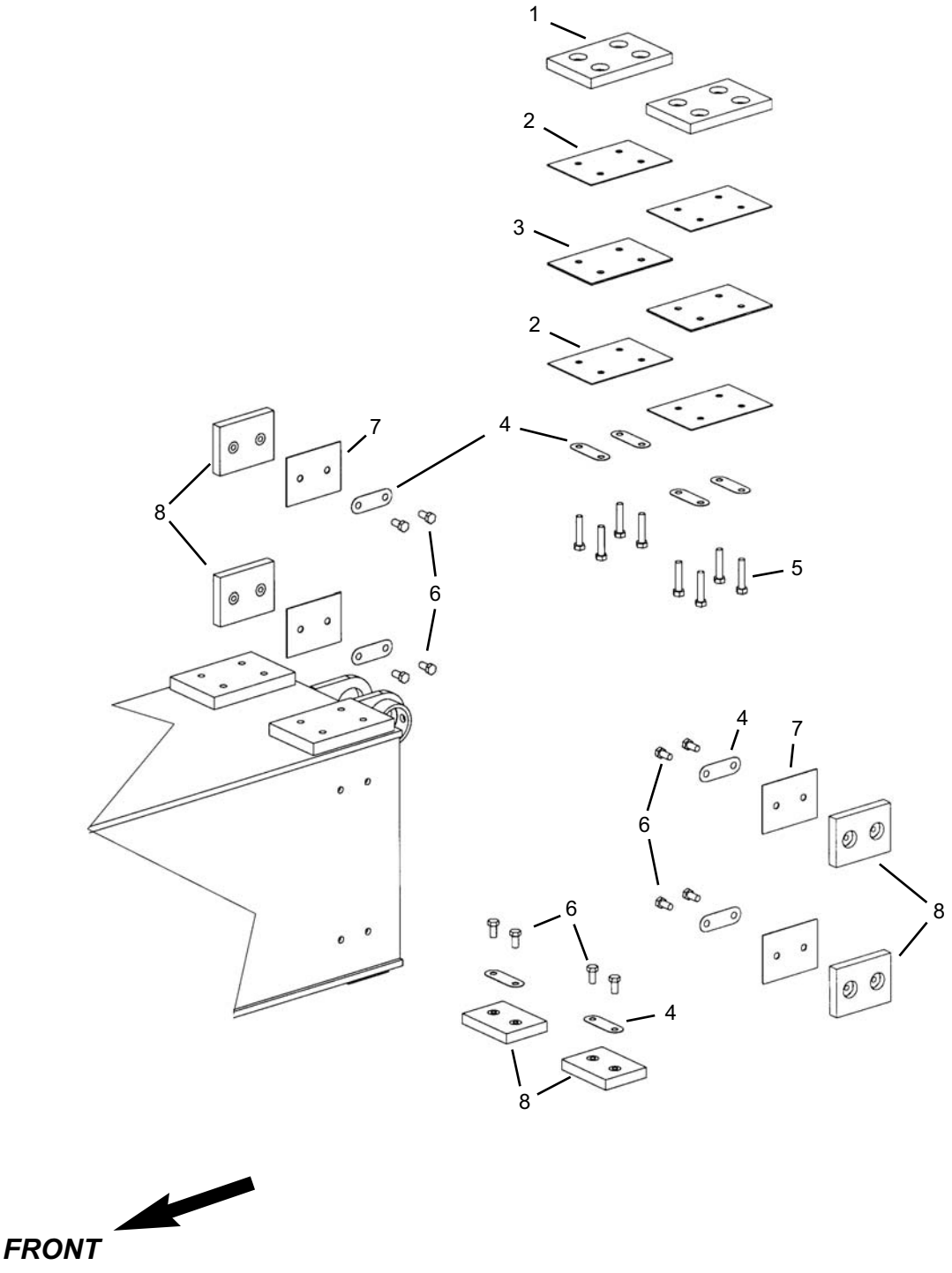
Outer Boom - Side Cover

Ref. No.	Part No.	Description	Qty. Req.
01		OUTER BOOM WELDMENT	1
	814192	*40' High Boom*	
	814193	*44' High Boom*	
02	808555	5/16" FLARE NUT	6
03	808949	HOSE CLAMP ASSEMBLY	1
04	808671	5/16" CLIP RETAINING NUT	5
05	808498	5/16"-18 x 3/4" BOLT	10
06		OUTER SIDE COVER	1
	814200	*40' High Boom*	
	814201	*44' High Boom*	

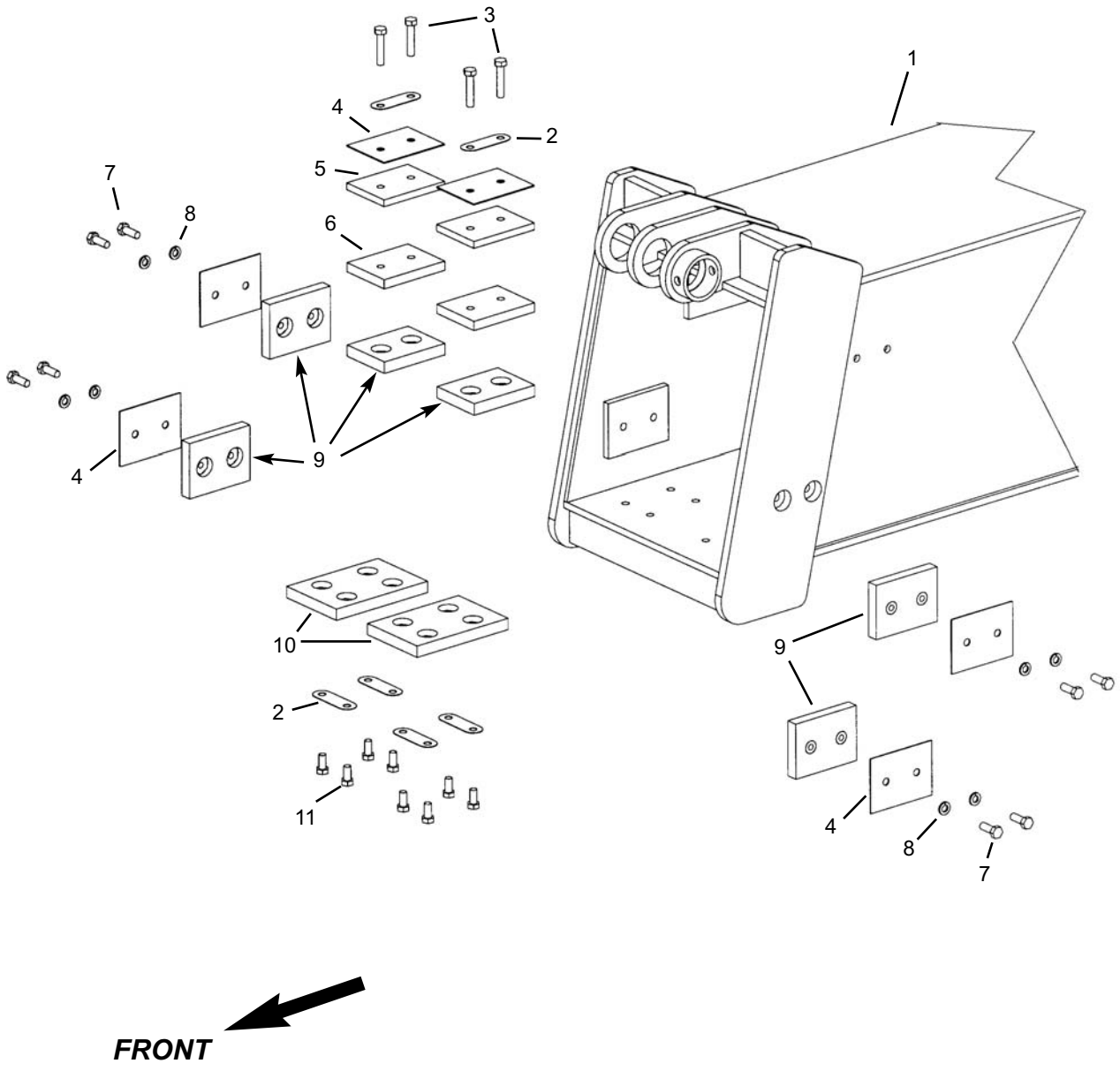

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Outer Boom - Front Section

Ref. No.	Part No.	Description	Qty. Req.
01		OUTER BOOM WELDMENT	1
	814192	*40' High Boom*	
	814193	*44' High Boom*	
02	808902	5/16"-18 NUT INSERT	2
03	808800	BOOM ANGLE IND. PLATE	1
04	813610	5/16" FLAT WASHER	2
05	808669	5/16"-18 x1" BUTTON HD BOLT	2
06	808624	#8 x 5/8" RND HD MACH SCREW	2
07	814202	#10 LOCK WASHER	2
08	808799	INCLINOMETER - ANGLE IND.	1
09	808662	5/16"-18 NYLON INSERT NUT	2
10	808471	3/8"-16 FLARE NUT	2
11	813549	3/8"-16 x 1-1/4" BOLT	4
12	808889	BOOM LIGHT BRACKET *(left)*	1
13	808890	WORK LIGHT	2
	808906	LIGHT HARNESS *(not shown)*	1
14	808663	3/8"-16 NYLON INSERT NUT	4
15	813712	5/16"-18 x 2" BOLT	2
16	809505	0.06" x 3" x 4" SHIM	6
17	813677	3/8"-16 x 3/4" BOLT	16
18	813849	3/8" LOCK WASHER	12
19	808696	FLAT-BOLT LOCK	4
20	808692	SLIDE PAD	2
21	808693	SLIDE PAD	6
22	808747	0.50" x 3" x 4" SHIM	2
23	808745	3/8" PAD SPACER	2
24	814029	3/8"-16 x 1-3/4" BOLT	4
25	808915	BOOM LIGHT BRACKET *(right)*	1
26	808753	ADJUSTABLE CLEVIS *(only)*	2
		(*order separately, the following:)*	
	808760	CLEVIS PIN	2
	808673	3/32" x 1-1/4" COTTER PIN	4
27	808086	1/2-20" x 1-1/4" GRD 8 BOLT	3
28	808673	3/32" x 1-1/4" COTTER PIN	2
29	808757	CLEVIS	1
30	808762	CHAIN PIN	1
31	813805	1/2" LOCK WASHER	3
32		LEAF CHAIN	3
	814189	*40' High Boom*	
	814190	*44' High Boom*	
33	808584	1"-8 NUT	4

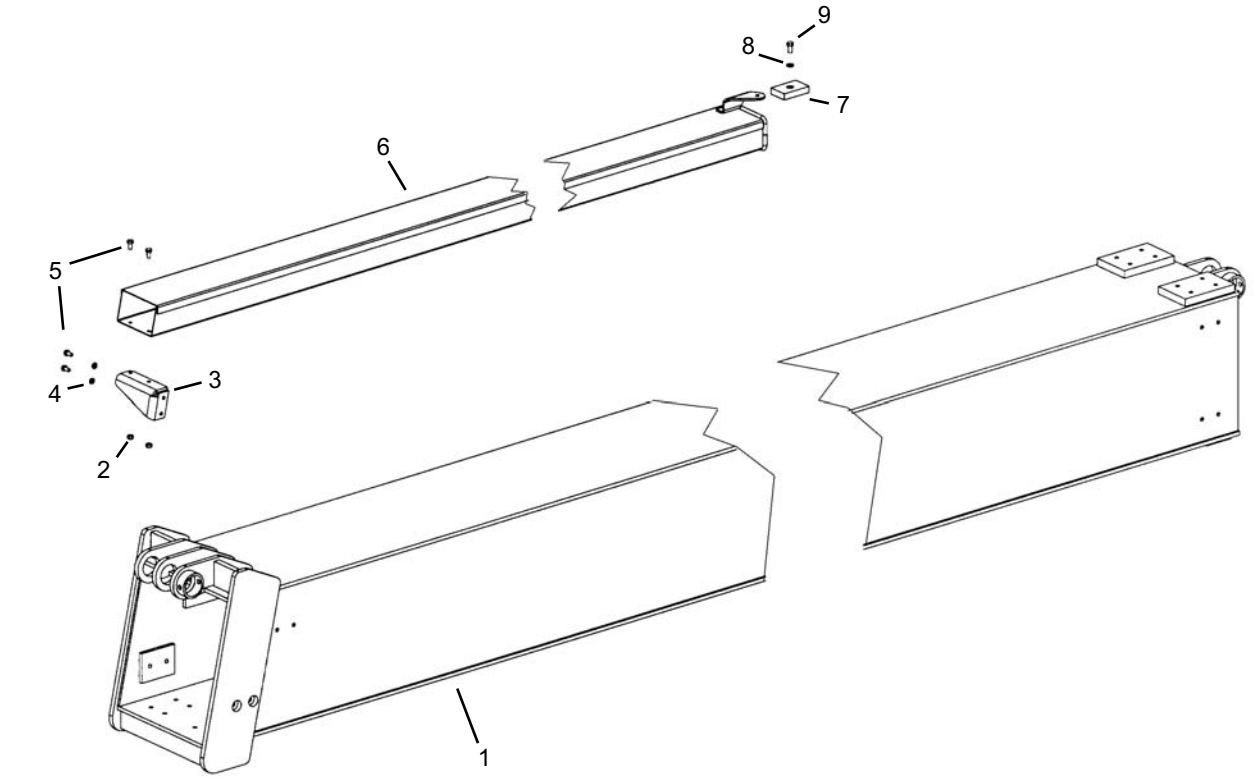

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Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	808692	SLIDE PAD	2	05	814029	3/8”-16 x 1-3/4” BOLT	8
02	808700	0.06” x 3” x 4” SHIM	4	06	813677	3/8”-16 x 3/4” BOLT	12
03	809504	0.105” x 4” x 6” SHIM	2	07	809505	0.06” x 3” x 4” SHIM	4
04	808696	FLAT-BOLT LOCK	10	08	808693	SLIDE PAD	6


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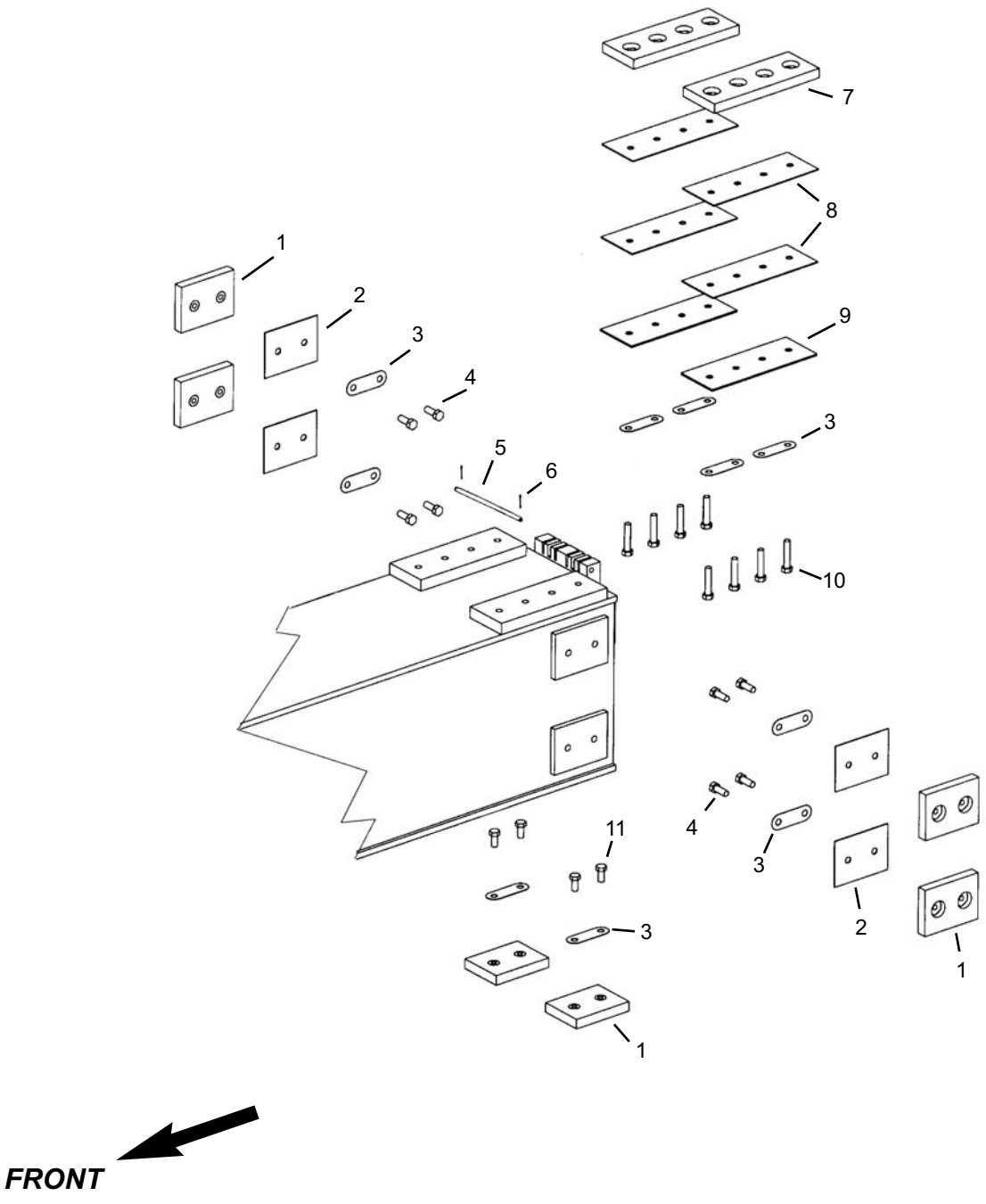
Intermediate Boom - Front Section

Ref. No.	Part No.	Description	Qty. Req.
01		INTERMEDIATE WELDMENT	1
	814203	*40' High Boom*	
	814204	*44' High Boom*	
02	808696	FLAT-BOLT LOCK	6
03	814029	3/8"-16 x 1-3/4" BOLT	4
04	808701	0.06" x 3" x 4" SHIM	6
05	808745	3/8" PAD SPACER	2
06	808747	0.50" x 3" x 4" SHIM	2
07	813574	3/8"-16 x 1" BOLT	8
08	813849	3/8" LOCK WASHER	8
09	808693	SLIDE PAD	6
10	809501	SLIDE PAD	2
11	813677	3/8"-16 x 3/4" BOLT	8

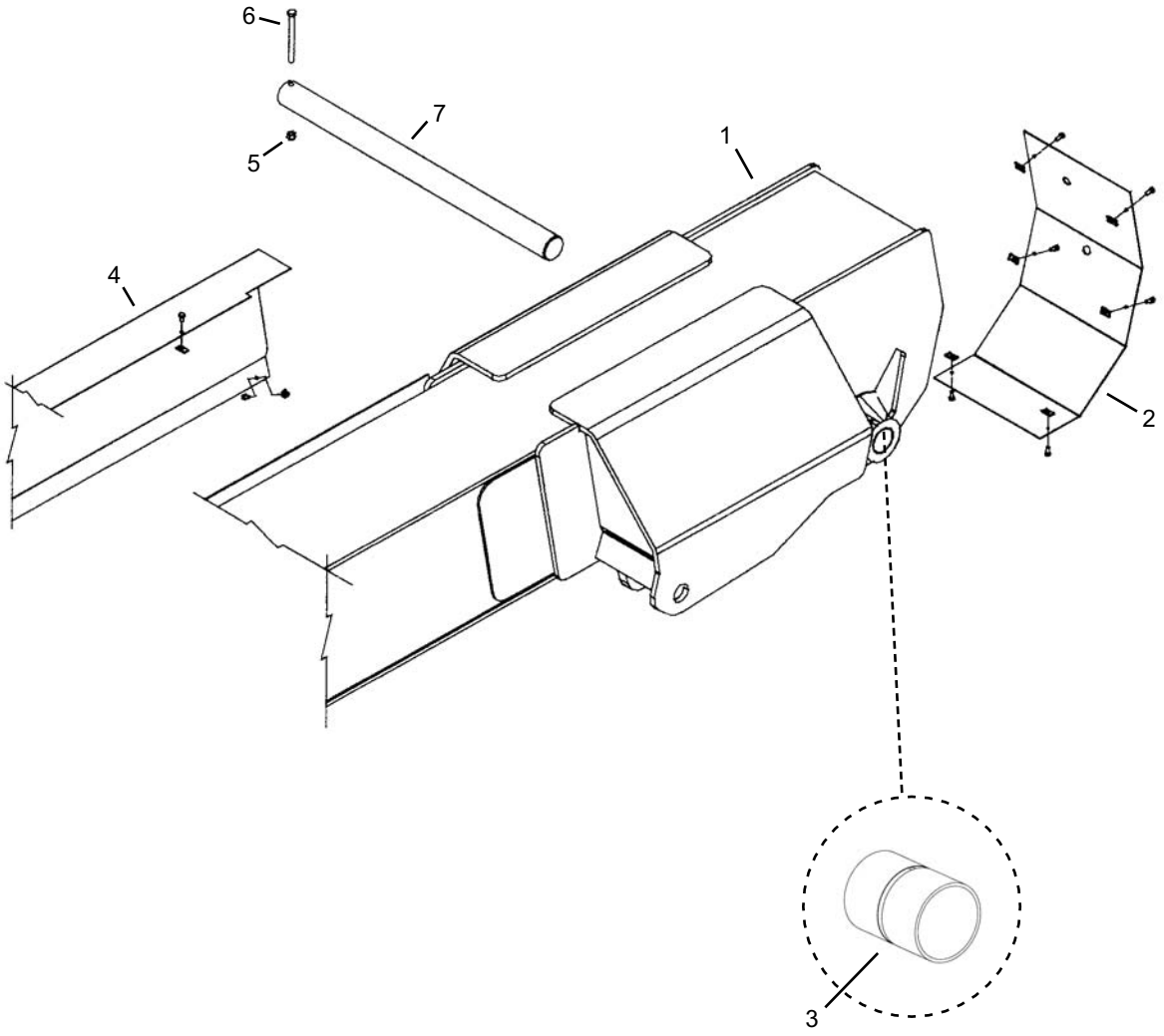


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Ref. No.	Part No.	Description	Qty. Req.
01		INTERMEDIATE WELDMENT	1
	814203	*40' High Boom*	
	814204	*44" High Boom*	
02	808662	5/16"-18 NYLON INSERT NUT	2
03	808869	TRAY BRACKET	1
	814205	PLATE, CUSHION MNT *(weld on)*	
04	808497	5/16" LOCK WASHER	2
05	814206	5/16"-18 x 5/8" BOLT	4
06		TRAY WELDMENT	1
	814207	*40' High Boom*	
	808866	*44' High Boom*	
07	808691	SLIDE PAD	1
08	813849	3/8" LOCK WASHER	1
09	813677	3/8"-16 x 3/4" BOLT	1
10	808555	5/16"-18 FLARE NUT	1


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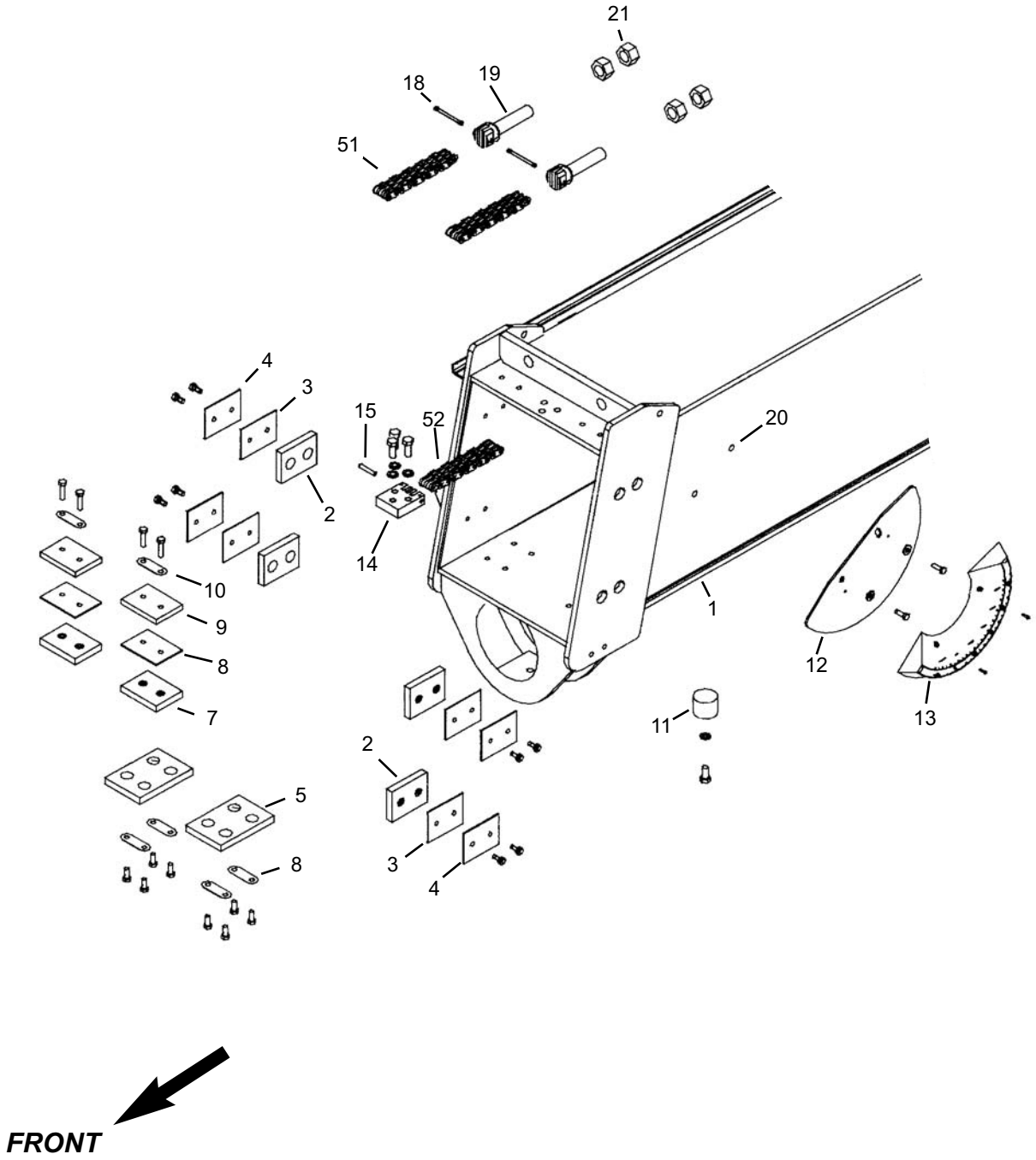
Ref. No.	Part No.	Description	Qty. Req.
01	808693	SLIDE PAD	6
02	809505	0.06” x 3” x 4” SHIM	4
03	808696	FLAT-BOLT LOCK	10
04	813574	3/8”-16 x 1” BOLT	8
05	808761	PIN, CHAIN REAR LOW INNER	1
06	808673	3/32” x 1-1/4” COTTER PIN	2
07	808817	SLIDE PAD	2
08	808818	0.06” x 3” x 8” SHIM	4
09	838088	0.105” x 3” x 8” SHIM	2
10	813697	3/8”-16 x 1-1/2” BOLT	8
11	813677	3/8”-16 x 3/4” BOLT	4





FRONT

Ref. No.	Part No.	Description	Qty. Req.
01	814208	OUTER SECTION WELDMENT	1
02	814196	REAR COVER	1
	808498	5/16”-18 x 3/4 BOLT	6
	808671	5/16” RET. NUT FASTNR	6
03	814199	BUSHING, PIVOT PIN	2
04	814209	SIDE COVER	1
	814206	5/16”-18 x 5/8” BOLT	5
	808671	5/16” RET. NUT FASTNR	5
	814206	5/16”-18 x 5/8” BOLT	5
	808555	5/16” FLANGE NUT	5
05	808665	1/2”-13 NYLON INSERT NUT	2
06	814197	1/2”-13 x 6” BOLT	2
07	814198	PIVOT PIN	2

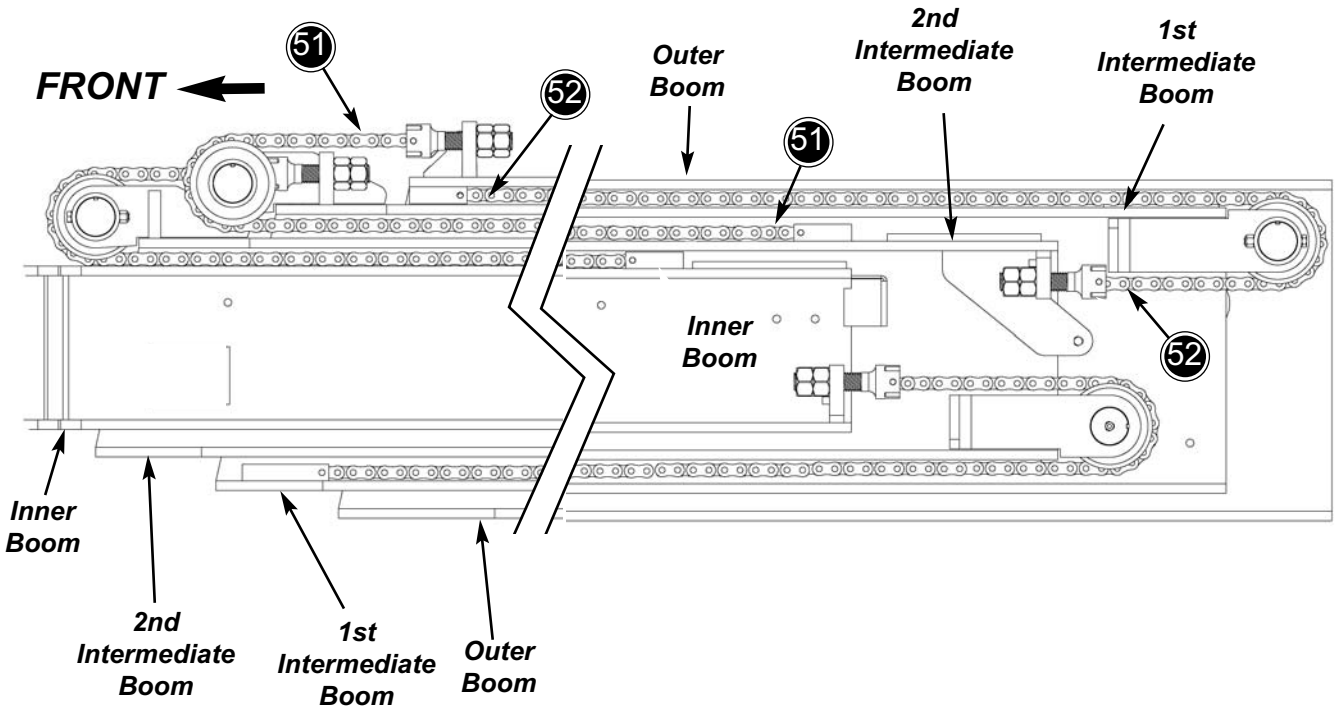

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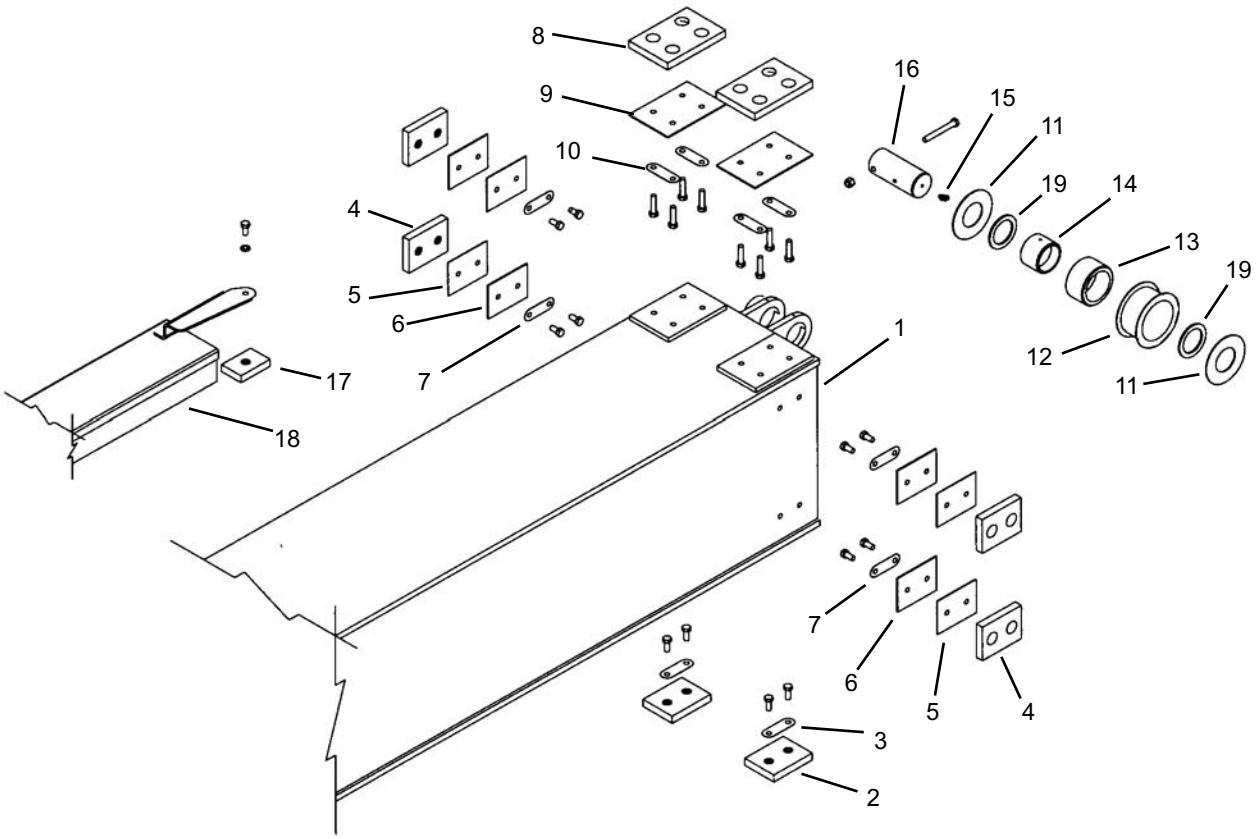
Outer Boom - Front Section

Ref. No.	Part No.	Description	Qty. Req.
01	814208	OUTER SECTION WELDMENT	1
02	808693	SIDE SLIDE PAD 3” x 4”	4
	813677	3/8” x 3/4” BOLT	8
03	808701	SHIM 0.06” x 3” x 4”	4
04	808702	SHIM 0.105” x 3” x 4”	4
05	814210	SLIDE PAD 4” x 6”	2
06	808696	BOLT FLAT LOCK	4
	814211	3/8” x 7/8” BOLT	8
07	808693	SLIDE PAD 3” x 4”	2
08	808702	SHIM 0.105” x 3” x 4”	2
09	808747	SHIM 0.50” x 3” x 4”	2
10	808696	BOLT FLAT LOCK	2
	813697	3/8” x 1-1/2” BOLT	4
11	814212	ISOLATOR	1
	814213	1/2” x 1” BOLT	1
	813805	1/2” LOCK WASHER	1
12	808800	MOUNT PLATE	1
	808669	5/16” x 1” BUTTON HEAD BOLT	2
	813610	5/16” FLAT WASHER	2
13	808799	ANGLE INCLINOMETER	1
	808624	#8-32 x 5/8” MACHINE SCREW	2
14	814214	FIXED CLEVIS	1
	814215	#10-24 x 3/4” SET SCREW	2
	808619	1/2” x 1-1/4” GR8 BOLT	3
	813805	1/2” LOCK WASHER	3
15	814216	CLEVIS PIN	1
18	814217	CLEVIS PIN	2
	808673	3/32” x 1-1/4” COTTER PIN	4
19	814218	ADJUSTABLE CLEVIS	2
20	808902	THREADED INSERT	2
21	808584	1” NUT	4
51[a]	814219	LEAF CHAIN *(extend)*	2
52[a]	814220	LEAF CHAIN *(retract)*	1

a *This parts manual shows the same chain(s) on multiple pages. Before ordering chains, refer to the illustration below to avoid ordering the incorrect chain(s) or incorrect quantities.*

Four-Section Boom



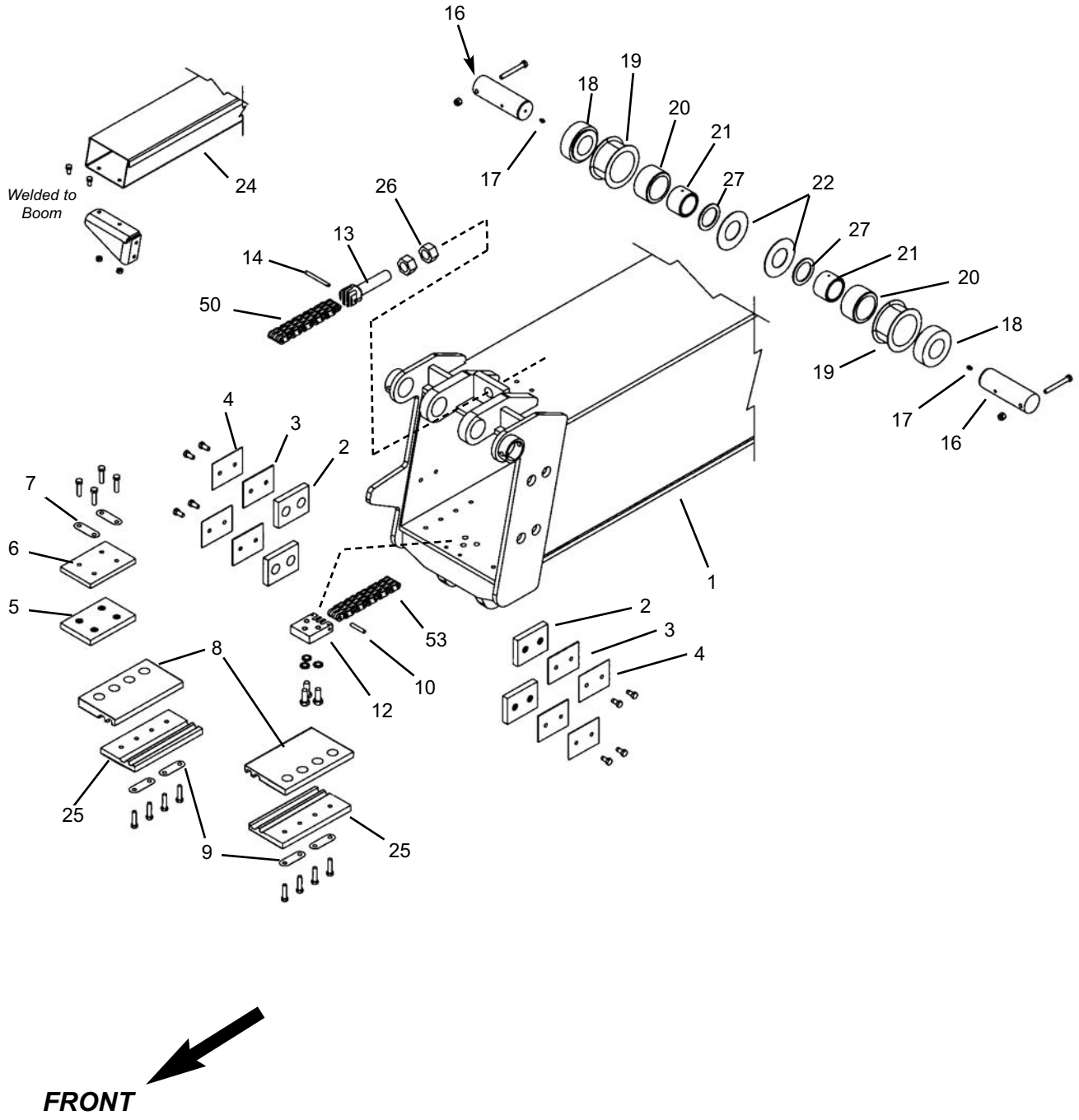


FRONT

First Intermediate Boom - Rear Section

Ref. No.	Part No.	Description	Qty. Req.
01	814221	FIRST INTERM. SECT. WELD	1
02	9808693	BOTTOM SLIDE PAD 3” x 4”	2
03	808696	BOLT FLAT LOCK	2
	814211	3/8”-16 x 7/8” BOLT	4
04	808693	SIDE SLIDE PAD 3” x 4”	4
05	808702	SHIM 0.105” x 3” x 4”	4
06	809505	SHIM 0.06” x 3” x 4”	4
07	808696	BOLT FLAT LOCK	4
	813677	3/8”-16 x 3/4” BOLT	8
08	814210	TOP SLIDE PAD 4” x 6”	2
09	809504	SHIM 0.105” x 4” x 6”	2
10	808696	BOLT FLAT LOCK	4
	813697	3/8”-16 x 1-1/2” BOLT	8
11	814229	THRUST WASHER	1
12	809882	SHEAVE	1
13	808477	ROLLER BEARING	1
14	808478	INNER RING	1
15	808423	GREASE ZERK 90º 1/4”-28	1
16	808932	REAR SHEAVE PIN	1
	813711	3/8”-16 x 3” BOLT	1
	808663	NYLON INSERT NUT 3/8”	1
17	808691	SLIDE PAD	1
	813677	3/8”-16 x 3/4” BOLT	1
	813849	3/8” LOCK WASHER	1
18	814222	HOSE TRAY WELDMENT	1
19	814223	SPACER	2

First Intermediate Boom - Front Section

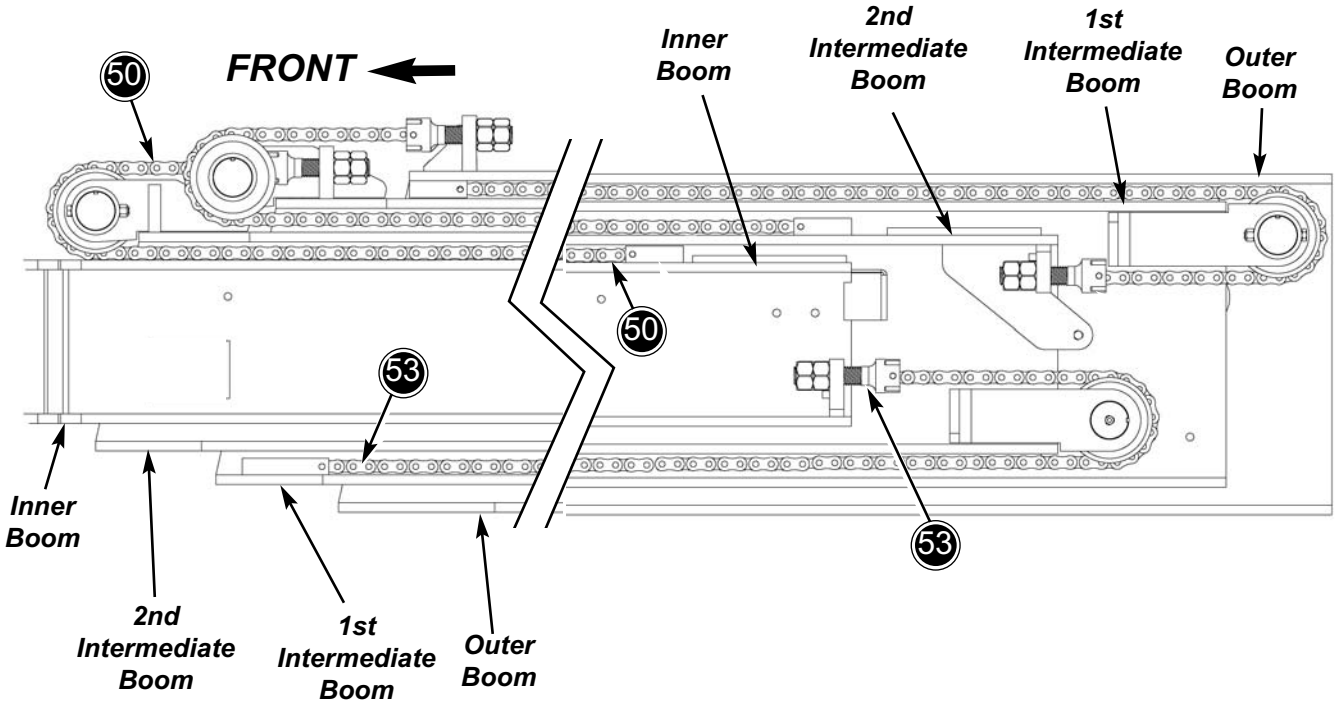


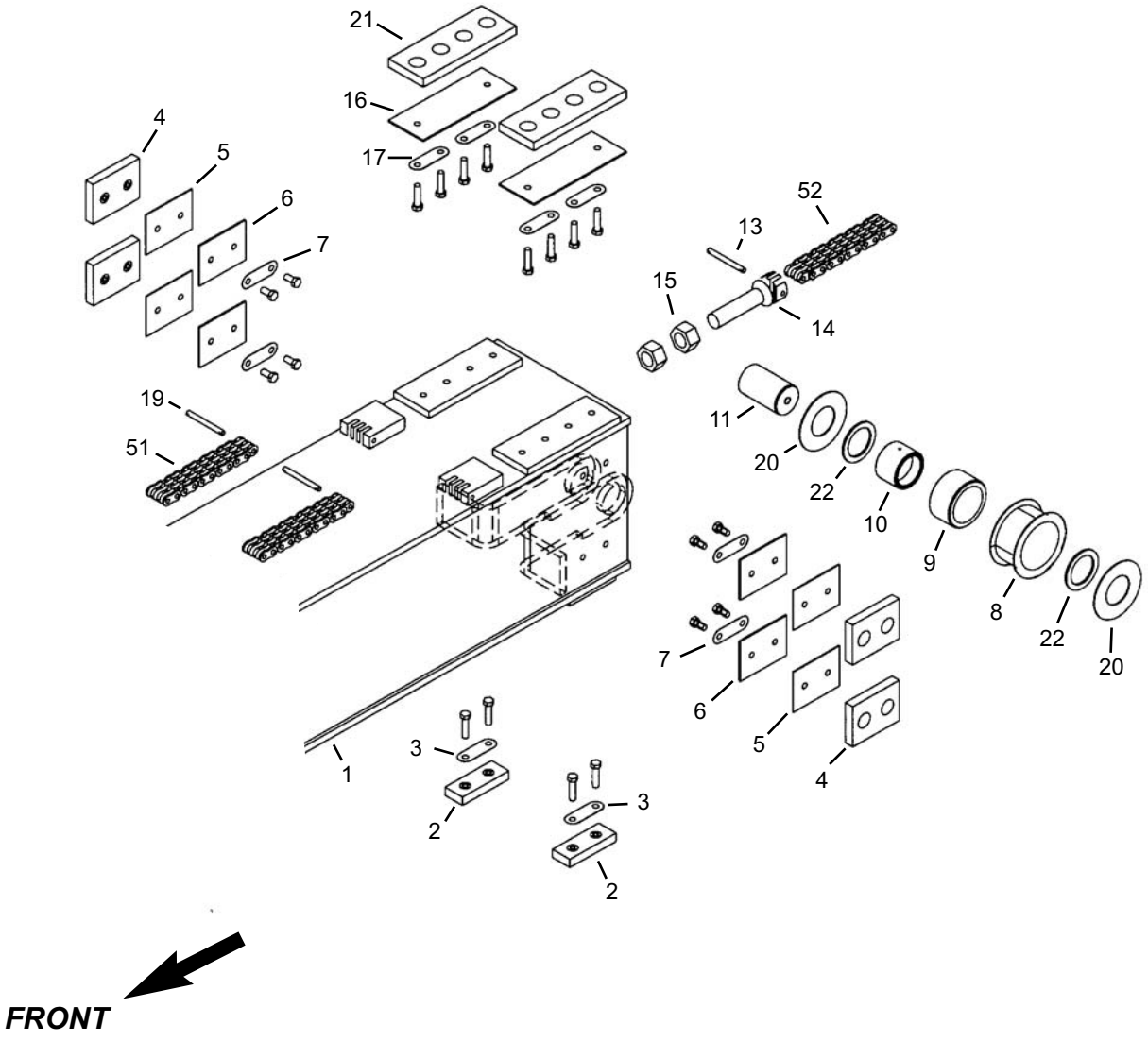
First Intermediate Boom - Front Section

Ref. No.	Part No.	Description	Qty. Req.
01	814221	1ST-INTERMEDIATE BOOM	1
02	808693	SLIDE PAD 3” x 4”	4
03	808702	SHIM 0.105” x 3” x 4”	4
04	809505	SHIM 0.06” x 3” x 4”	4
	813677	3/8”X3/4” BOLT	8
05	809501	TOP SLIDE PAD 4” x 6”	1
06		SHIM	AR
	814224	SHIM, 1/2” x 4” X 6”	
	808700	SHIM, 1/16” x 4” X 6”	
	809504	SHIM, 1/8” x 4” X 6”	
07	808696	BOLT FLAT LOCK	2
	813697	3/8”-16 x 1-1/2” BOLT	4
08	814225	SLIDE PAD *(clamp-style)*	2
09	808696	BOLT FLAT LOCK	4
	813697	3/8”-16 x 1-1/2” BOLT	8
10	814216	FIXED CHAIN PIN	1
12	814226	FIXED CLEVIS	1
	814215	#10-24” x 3/4” SET SCREW	2
	808619	1/2”-20 x 1-1/4” BOLT GR8	3
	813805	1/2” LOCK WASHER	3
13	814218	ADJUSTABLE CLEVIS	1
14	814217	CHAIN PIN	1
	808673	3/32” x 1-1/4” COTTER PIN	1
16	814227	SHEAVE PIN	2
	813711	3/8”-16 x 3” BOLT	2
	808663	3/8” NYLON INSERT NUT	2
17	808424	GREASE ZERK, STR. 1/4”-28	2
18	814228	SHEAVE SPACER	2
19	809882	CHAIN SHEAVE	2
20	808477	ROLLER BEARING	2
21	808478	INNER RING	2
22	814229	THRUST WASHER	2
24	814222	HOSE TRAY WELDMENT	1
	814206	5/16”-18 x 5/8” BOLT	2
	808662	5/16” NYLON INSERT NUT	2
25	814230	SPACER PAD W/CLAMP	2
26	808584	HEX NUT 1”-8	2
27	814223	SPACER	2
50[a]	814231	LEAF CHAIN *(extend)*	1
53[a]	814220	LEAF CHAIN *(retract)*	1

a *This parts manual shows the same chain(s) on multiple pages. Before ordering chains, refer to the illustration below to avoid ordering the incorrect chain(s) or incorrect quantities.*

Four-Section Boom



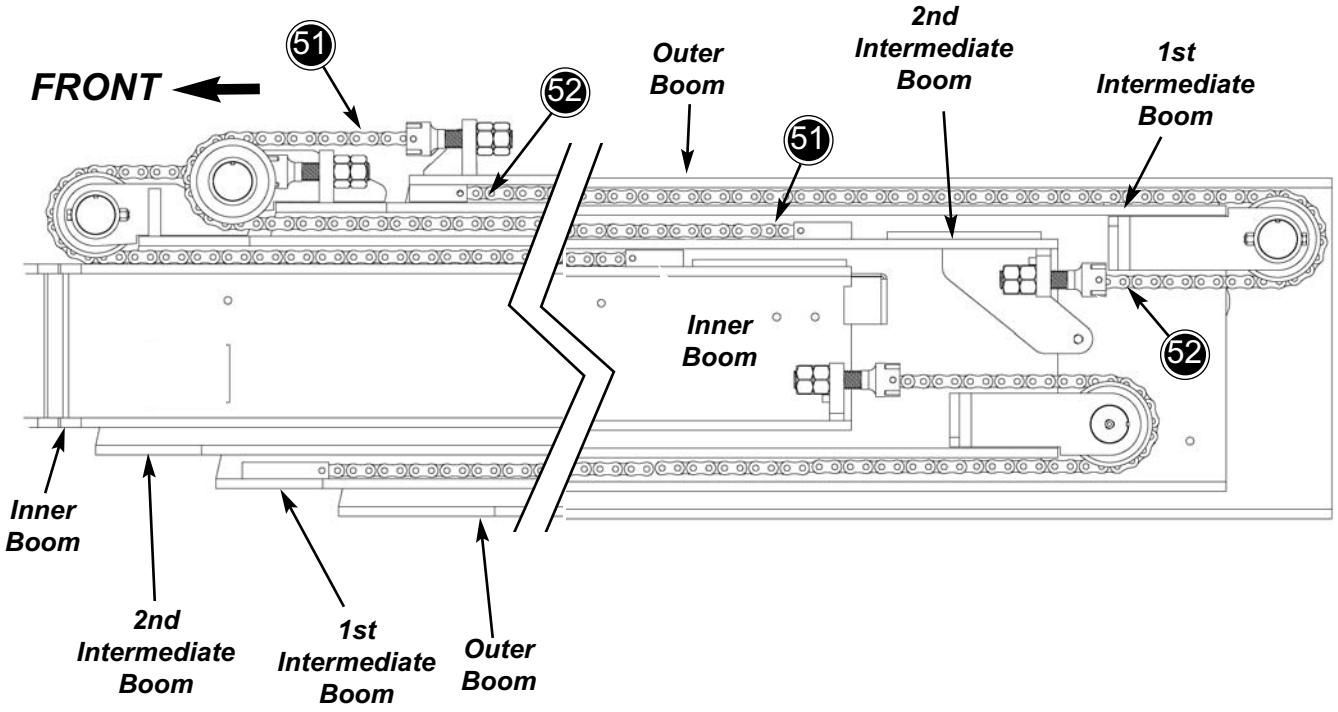

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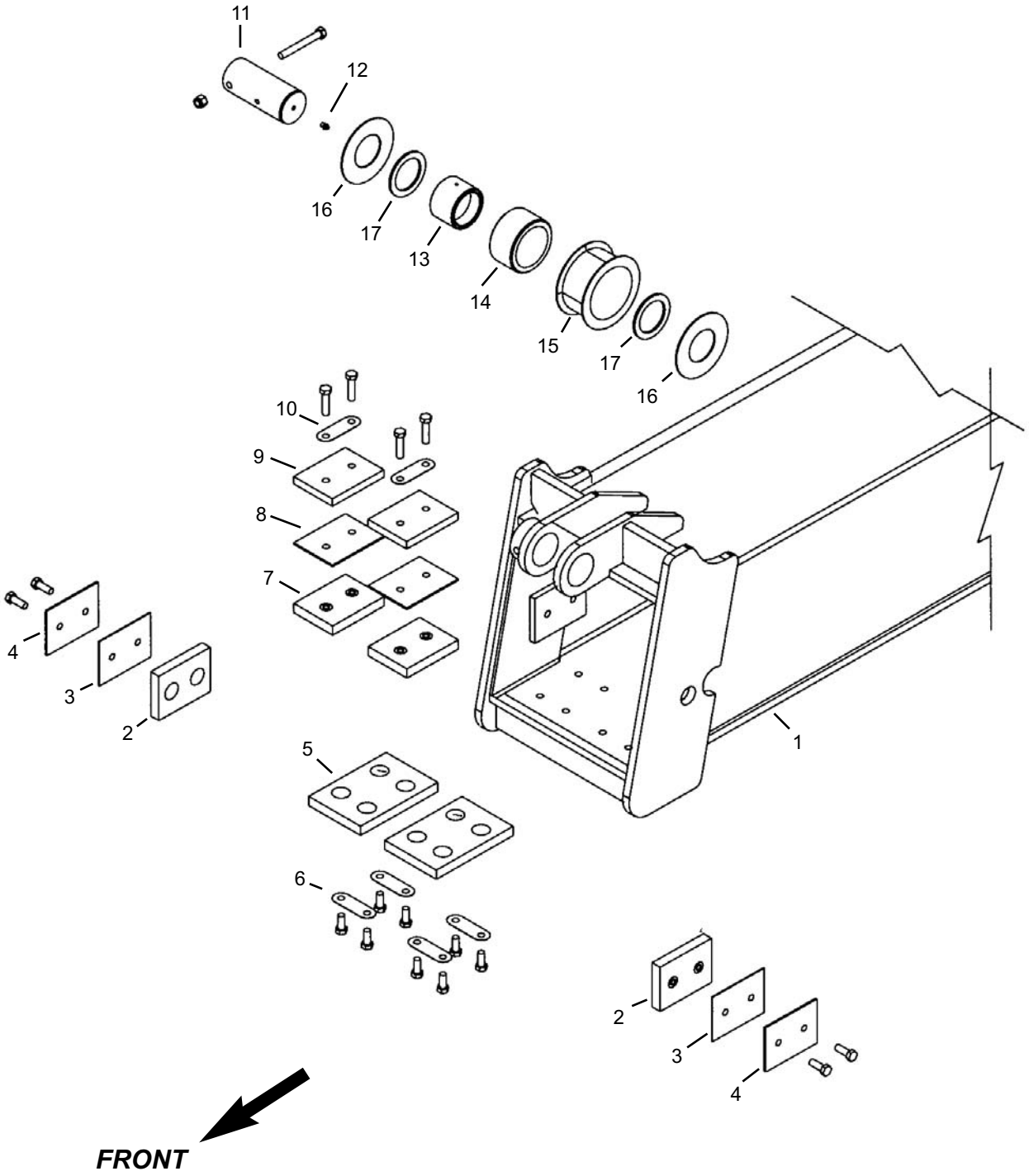
Second Intermediate Boom - Rear Section

Ref. No.	Part No.	Description	Qty. Req.
01	814232	2ND-INTERMEDIATE BOOM	1
02	814233	SLIDE PAD 1-1/2" x 4"	2
03	808696	BOLT FLAT LOCK	2
	813697	3/8" x 1-1/2" BOLT	4
04	808693	SLIDE PAD 3" x 4"	4
05	809505	SHIM 0.06" x 3" x 4"	4
06	808702	SHIM 0.105" x 3" x 4"	4
07	808696	BOLT FLAT LOCK	4
	813677	3/8" x 3/4" BOLT	8
08	809882	CHAIN SHEAVE	1
09	808477	ROLLER BEARING	1
10	808478	INNER RING	1
11	814234	SHEAVE PIN	1
13	814217	CHAIN PIN	1
	808673	3/32" x 1-1/4" COTTER PIN	2
14	814218	ADJUSTABLE CLEVIS	1
15	808584	1" NUT	2
16	808819	SHIM 0.105" x 3" x 8"	2
17	808696	BOLT FLAT LOCK	4
	813697	3/8" x 1-1/2" BOLT	8
19	814217	CHAIN PIN	2
	808673	3/32" x 1-1/4" COTTER PIN	4
20	814229	THRUST WASHER	2
21	813235	SLIDE PAD 3" x 8"	2
22	814223	SPACER	2
51[a]	814219	LEAF CHAIN *(extend)*	2
52[a]	814220	LEAF CHAIN *(retract)*	1

a *This parts manual shows the same chain(s) on multiple pages. Before ordering chains, refer to the illustration below to avoid ordering the incorrect chain(s) or incorrect quantities.*

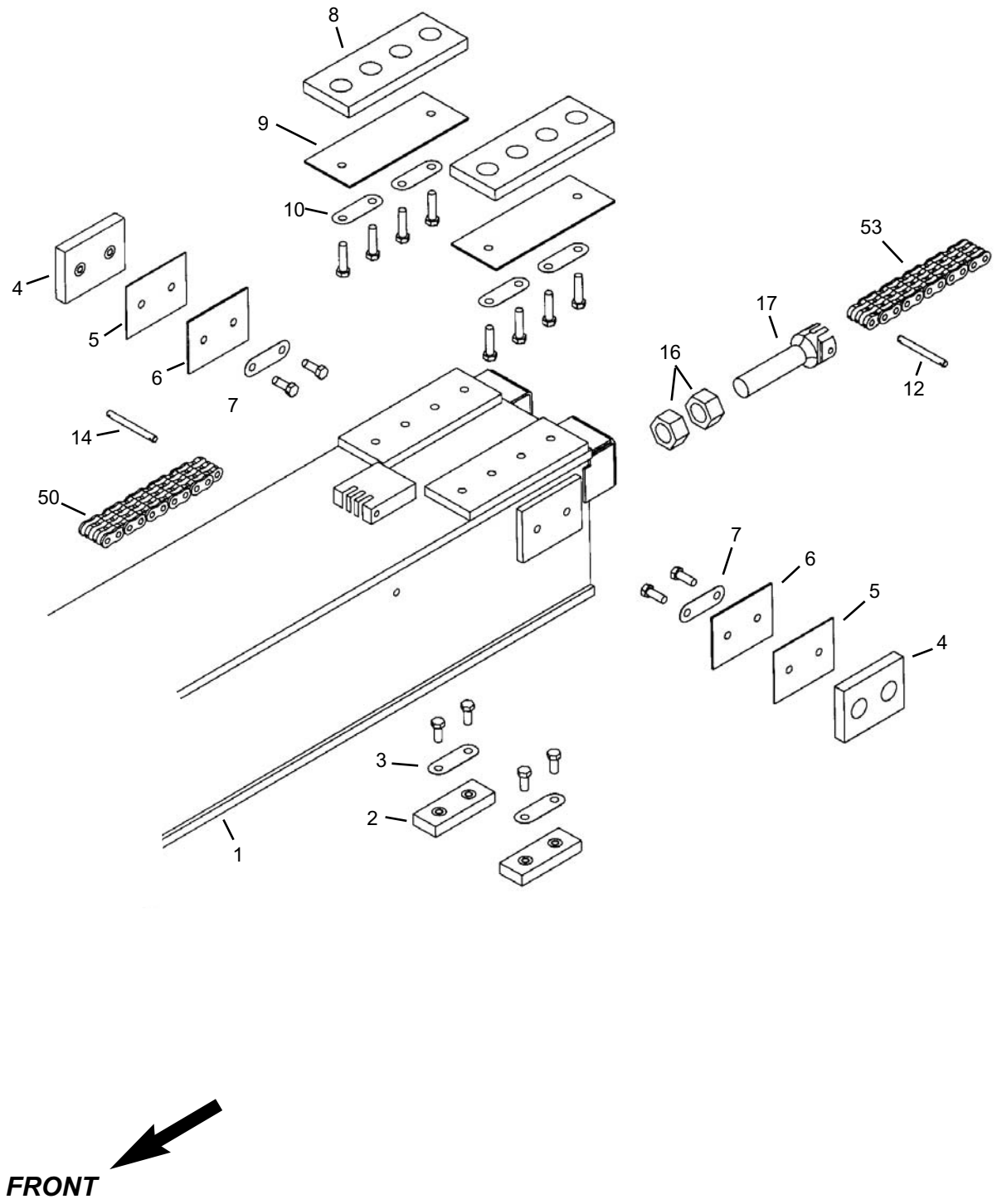
Four-Section Boom




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Second Intermediate Boom - Front Section

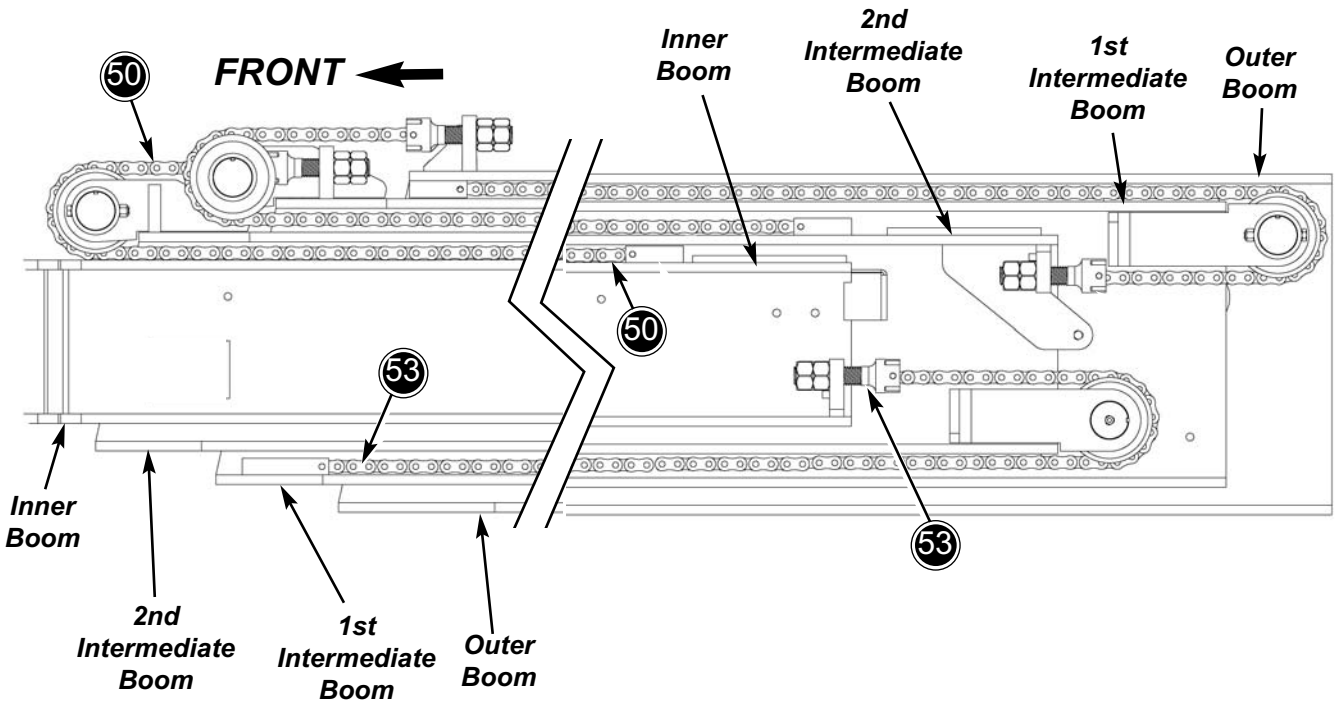
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814232	2ND INTERM. SECT. WELD.	1	10	808696	BOLT FLAT LOCK	2
02	809502	SIDE SLIDE PAD 3” x 4”	2		813697	3/8”-16 x 1-1/2” BOLT	4
	813574	3/8”-16 x 1” BOLT	4	11	808932	SHEAVE PIN	1
03	809505	SHIM 0.06” x 3” x 4”	2		813711	3/8”-16 x 3” BOLT	1
04	808702	SHIM 0.105” x 3” x 4”	2		808663	3/8” NYLON INSERT NUT	1
05	814210	BOTTOM SLIDE PAD 4” x 6”	2	12	808424	GREASE ZERK STR. 1/4”-28	1
06	808696	BOLT FLAT LOCK	4	13	808478	INNER RING	1
	814211	3/8”-16 x 7/8” BOLT	8	14	808477	ROLLER BEARING	1
07	809502	TOP SLIDE PAD 3” x 4”	2	15	809882	CHAIN SHEAVE	1
08	808702	SHIM 0.105” x 3” x 4”	2	16	814229	THRUSTWASHER	2
09	808747	SHIM 0.50” x 3” x 4”	2	17	814223	SPACER	2

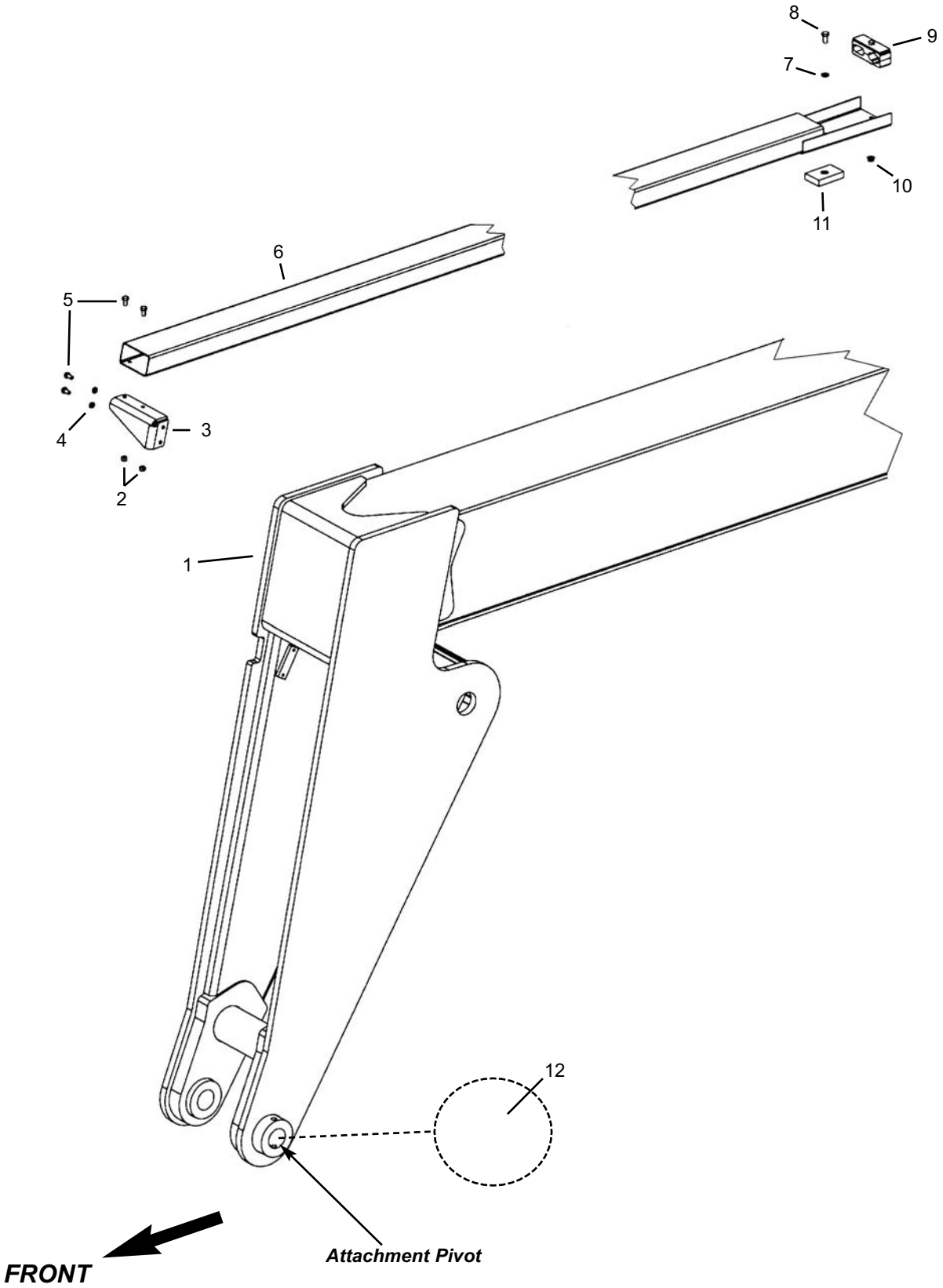

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Ref. No.	Part No.	Description	Qty. Req.
01	814236	INNER WELDMENT	1
02	814233	BOTTOM SLIDE PAD 1-1/2" x 4"	2
03	808696	BOLT FLAT LOCK	2
	814211	3/8" x 7/8" BOLT	4
04	808693	SLIDE PAD 3" x 4"	2
05	808701	SHIM 0.06" x 3" x 4"	2
06	808702	SHIM 0.105" x 3" x 4"	2
07	808696	BOLT FLAT LOCK	2
	813574	3/8" x 1" BOLT	4
08	814235	SLIDE PAD 3" x 8"	2
09	808819	SHIM 0.105" x 3" x 8"	2
10	808696	BOLT FLAT LOCK	4
	813697	3/8" x 1-1/2" BOLT	8
11	814218	ADJUSTABLE CLEVIS	1
12	814217	CHAIN PIN	1
	808673	3/32" x 1-1/4" COTTER PIN	2
14	814217	CHAIN PIN	1
	808673	3/32" x 1-1/4" COTTER PIN	2
16	808584	1" NUT	2
17	814218	ADJUSTABLE CLEVIS	1
50[a]	814231	LEAF CHAIN *(extend)*	1
53[a]	814220	LEAF CHAIN *(retract)*	1

a *This parts manual shows the same chain(s) on multiple pages. Before ordering chains, refer to the illustration below to avoid ordering the incorrect chain(s) or incorrect quantities.*

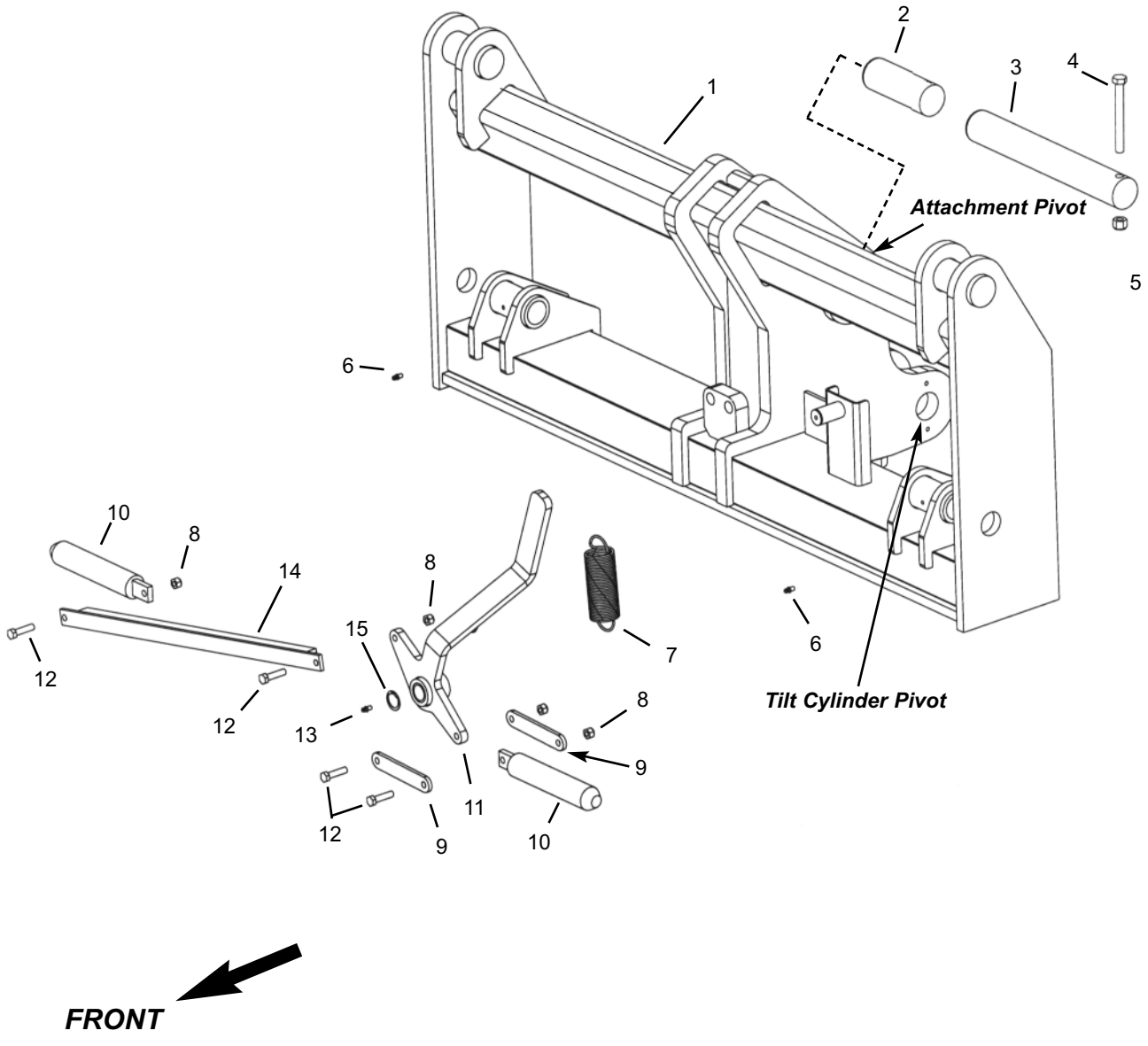
Four-Section Boom



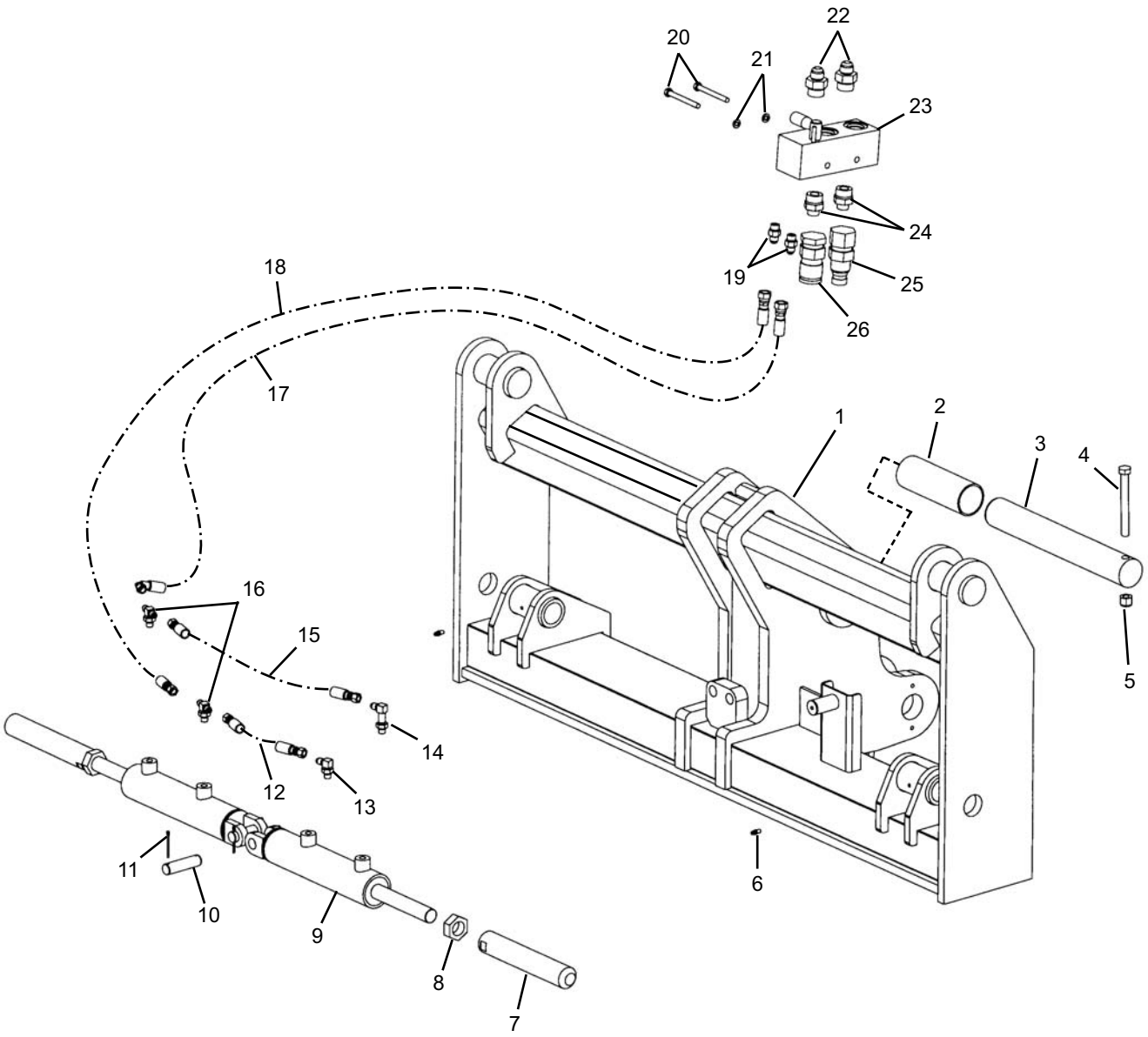

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FRONT
Attachment Pivot

Inner Boom - Front Section

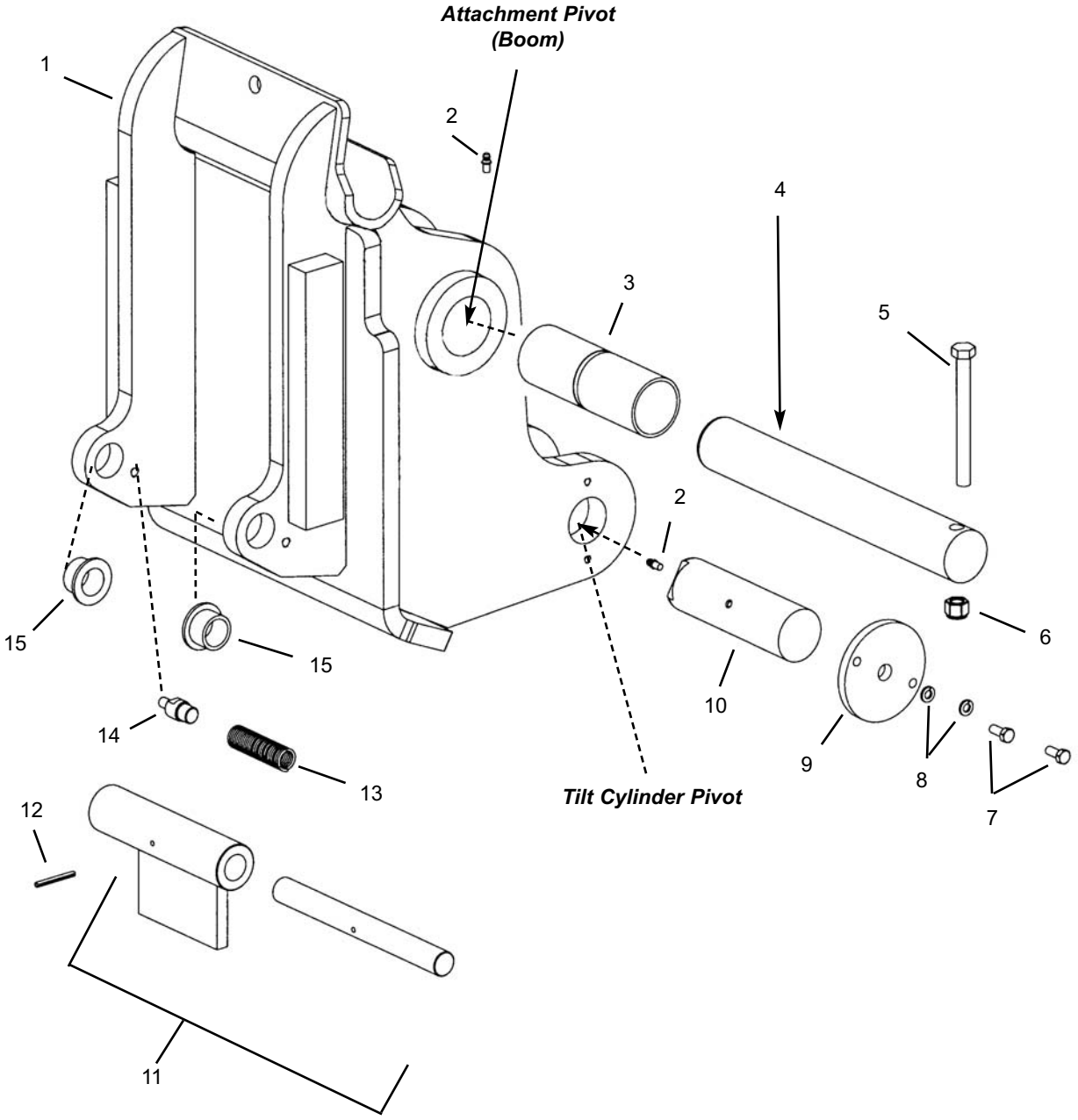
Ref. No.	Part No.	Description	Qty. Req.
01		INNER WELDMENT	1
	814237	*40' High Boom*	
	814238	*44' High Boom*	
	814236	*55' High Boom*	
02	808662	5/16"-18 NYLON INSERT NUT	2
03	808870	INNER TRAY BRACKET	1
	814205	CUSHION, MNT PLATE *(weld on)*	
04	808497	5/16" LOCK WASHER	2
05	814206	5/16"-18 x 5/8" BOLT	4
06		INNER TRAY WELDMENT	1
	814239	*40' High Boom*	
	814240	*44' High Boom*	
07	813849	3/8" LOCK WASHER	1
08	813677	3/8"-16 x 3/4" BOLT	1
09	808949	HOSE CLAMP ASSEMBLY	1
10	808497	5/16"-18 FLARE NUT	1
11	808691	SLIDE PAD	1
12	814241	BUSHING	2


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Attachment Pivot
Tilt Cylinder Pivot
FRONT

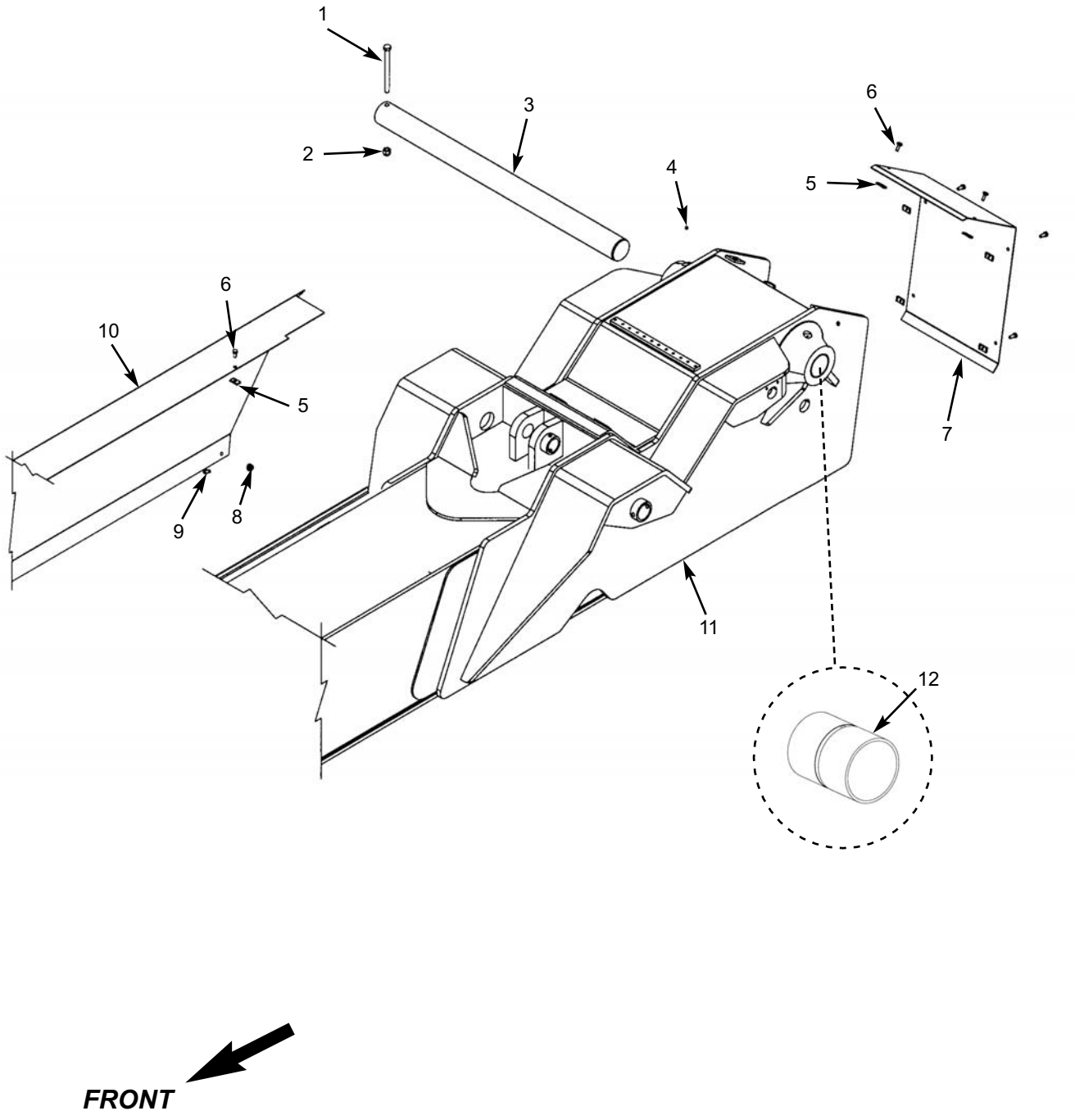
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814242	DYNACARRIER® WELDMENT	1	09	814246	LOCK COUPLER BAR	2
02	808085	BUSHING	1	10	814247	LOCK PIN WELDMENT	2
03	814243	CARRIER PIVOT PIN	1	11	814248	LOCK HANDLE WELDMENT	1
04	808651	1/2”-13 x 4-1/2” BOLT	1		814249	BRONZE BUSHING	1
05	808665	1/2”-13 NYLON INSERT NUT	1	12	813697	3/8”-16 x 1-1/2” BOLT	4
06	814244	1/4”-28 GREASE ZERK, STR.	3	13	814244	1/4”-28 GREASE ZERK, STR.	4
07	814245	LATCH SPRING	1	14	814250	LATCH COUPLER BAR	1
08	808663	3/8”-16 NYLON INSERT NUT	4	15	814251	1” RETAINING CLIP	1


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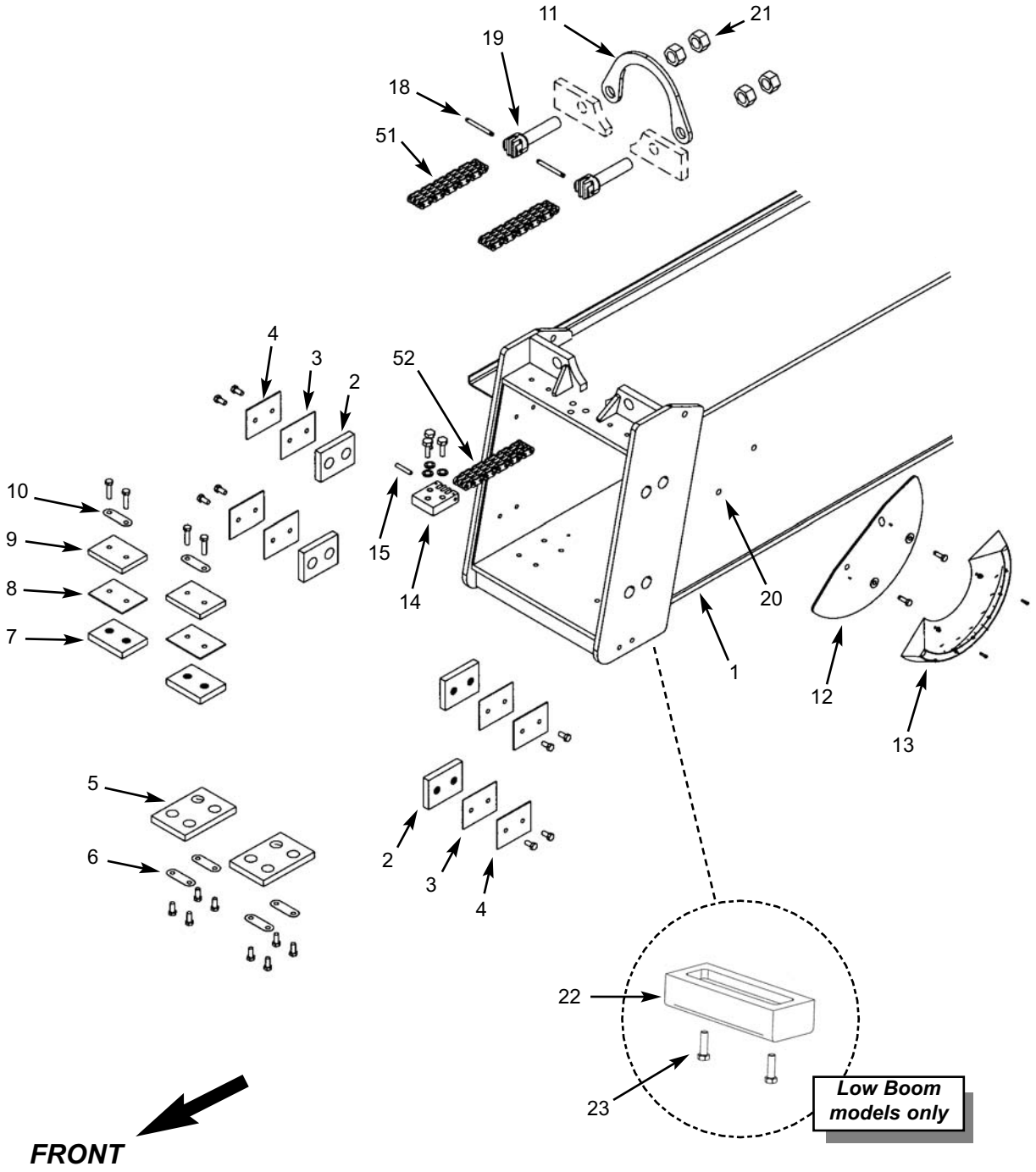
Ref. No.	Part No.	Description	Qty. Req.
01	814242	DYNACARRIER® WELDMENT (*includes item 2)*	1
02	808085	BUSHING	1
03	814243	CARRIER PIVOT PIN	1
04	808651	1/2”-13 x 4-1/2” BOLT	1
05	808665	1/2”-13 NYLON INSERT NUT	1
06	808424	1/4”-28 GREASE ZERK, STR.	3
07	814252	ATTACHMENT LOCK PIN	2
08	813362	1” JAM NUT	2
09	814253	LOCK CYLINDER W/SPRING	2
10	814254	PIN, RELEASE CYL BASE	2
11	814255	1/8” x 1-1/2” COTTER PIN	4
12	814256	HOSE, -4 A4/A4 10”	1
13	813550	ADAP., -4ORM -4JICM 90º	1
14	814257	ADAP., -4ORM -4JICM 90º LONG	1
15	814258	HOSE, -4 A4/A4 22”	1
16	814259	ADAP., -4 ORM -4JICM TEE	2
17	814260	HOSE, -4 DS4/A6 33”	1
18	814261	HOSE, -4 A4/A6 38”	1
19	813596	ADAP., -6ORM -6JICM STR.	2
20	808415	5/16”-18 x 3” BOLT	2
21	808497	5/16” LOCK WASHER	2
22	814262	ADAP., -12ORM -12JICM STR.	2
23	814263	ATTACH REL. MANIFOLD	1
	814264	HANDLE	1
24	814265	ADAP., -12ORM -8ORM STR.	2
25	814266	MALE COUPLER	1
26	814267	FEMALE COUPLER	1


Attachment Pivot
(Boom)
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Tilt Cylinder Pivot
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Ref. No.	Part No.	Description	Qty. Req.
01	808082	DYNATTACH® WELDMENT	1
02	808424	1/4”-28 STR GREASE ZERK	2
03	808085	BUSHING	1
04	814243	CARRIER PIVOT PIN	1
05	809685	1/2” x 5” BOLT	1
06	808665	1/2” NYLON INSERT NUT	1
07	808498	5/16” x 3/4” BOLT	2
08	808497	5/16” LOCK WASHER	2
09	808873	PIN CAP	1
10	808875	PIN, TILT CYLINDER	1
11	808810	LOCK AND PIN ASSEMBLY	1
12	808633	3/16” x 1-3/4” ROLL PIN	1
13	808786	LOCK SPRING	1
14	808787	SPRING MOUNT	1
15	808811	BUSHING	2


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Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814197	1/2-13 x 6" BOLT	1	07	814268	REAR BOOM COVER	1
02	808665	1/2"-13 NYLON INSERT NUT	1	08	808497	5/16"-18 FLARE NUT	5
03	814198	BOOM PIVOT PIN	1	09	814206	5/16"-18 x 5/8" BOLT	5
04	808424	ZERK 1/4"-28 STRAIGHT	2	10	814269	BOOM SIDE COVER	1
05	808671	5/16" CLIP RETAINING NUT	11	11	814270	OUTER SECTION WELDMENT	1
06	808498	5/16"-18 x 3/4" BOLT	11	12	814199	BUSHING, PIVOT PIN	2

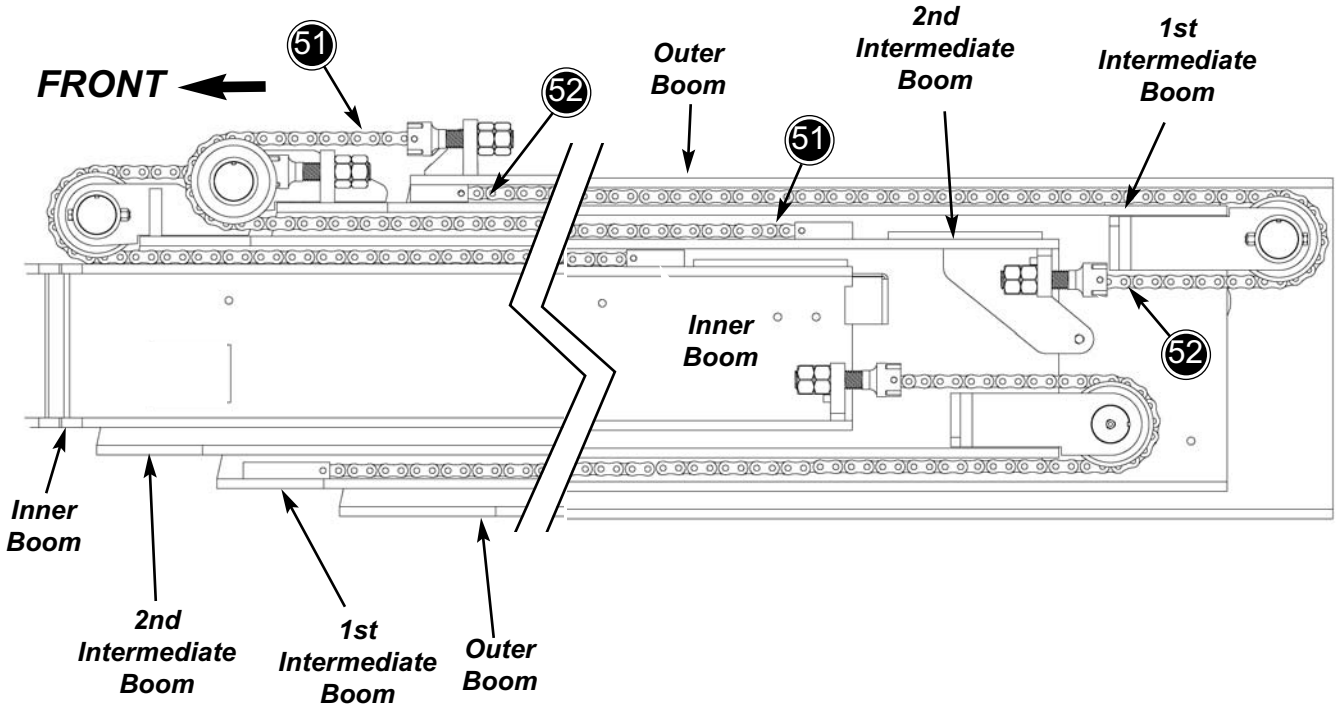

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Low Boom models only
FRONT

Outer Boom - Front Section

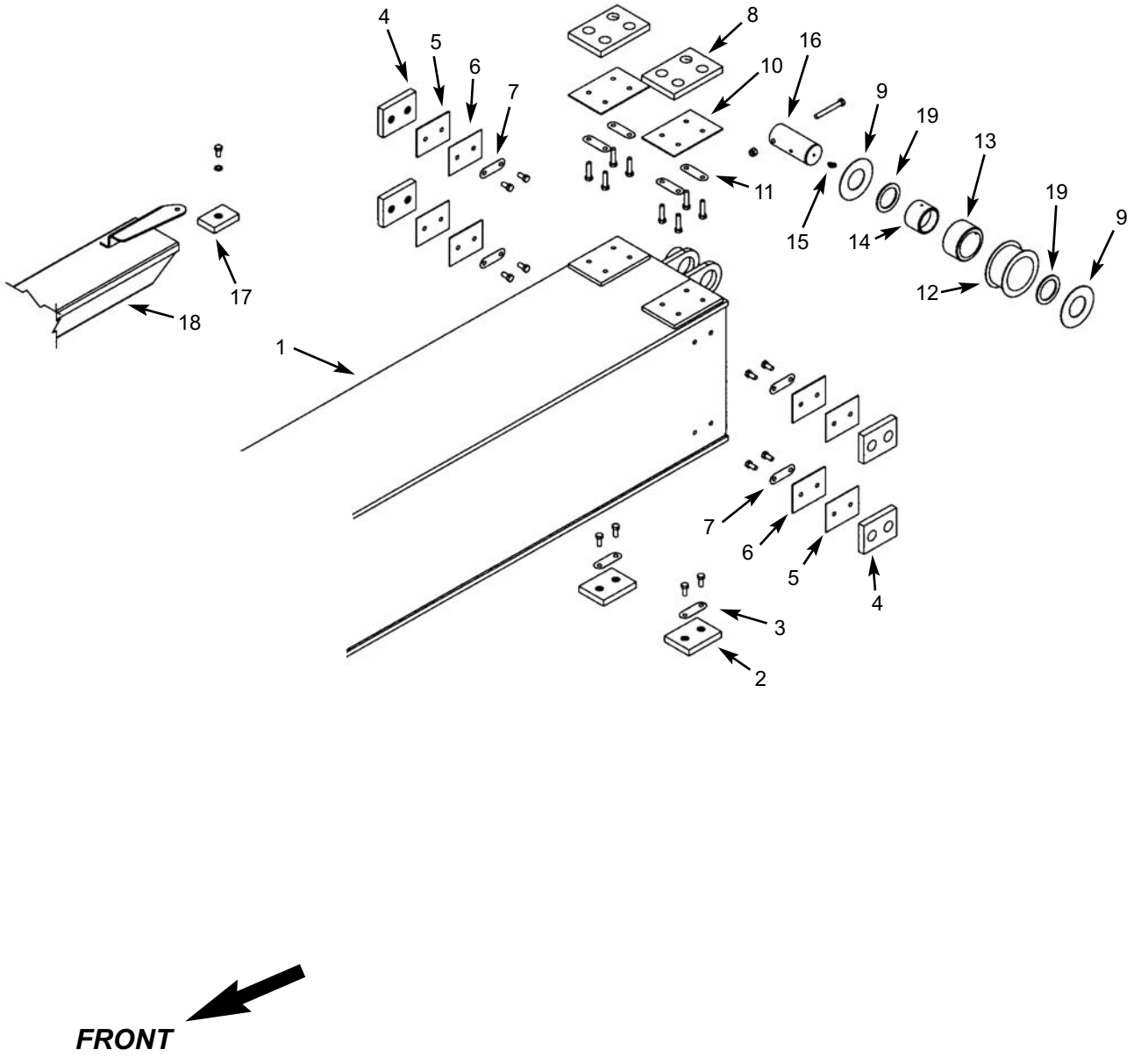
Ref. No.	Part No.	Description	Qty. Req.
01	814270	OUTER SECTION WELDMENT	1
02	808693	SIDE SLIDE PAD 3” x 4”	4
	813677	3/8”-16 x 3/4” BOLT	8
03	808701	SHIM 0.06” x 3” x 4”	4
04	808702	SHIM 0.105 x 3” x 4”	4
05	814210	BOTTOM SLIDE PAD 4” x 6”	2
06	808696	BOLT FLAT LOCK	4
	814211	3/8”-16 x 7/8” BOLT	8
07	808693	TOP SLIDE PAD 3” x 4”	2
08	808702	SHIM 0.105” x 3” x 4”	2
09	808747	SHIM 0.50” x 3” x 4”	2
10	808696	BOLT FLAT LOCK	2
	813697	3/8”-16 x 1-1/2” BOLT	4
11	814272	RETAINER	2
12	808800	MOUNT PLATE	1
	808669	BUTT. HD. BOLT 5/16”-18 x 1”	2
	813610	PLAIN WASHER 5/16”	2
13	808799	ANGLE INCLINOMETER	1
	808624	RD. HD. SCREW #8-32” x 5/8”	2
14	814214	FIXED CLEVIS	1
	814215	SET SCREW #10-24” x 3/4”	2
	808619	1/2”-20 x 1-1/4” GR8 BOLT	3
	813805	LOCKWASHER 1/2”	AR
15	814216	CLEVIS PIN	1
18	814217	CLEVIS PIN	2
	808673	COTTER PIN 3/32” x 1-1/4”	4
19	814218	ADJUSTABLE CLEVIS	2
20	808902	THREADED INSERT	2
21	808584	HEX NUT 1”-8	4
22	814271	BUMPER SUPPORT PAD	1
23	813713	3/8”-16 x 1-3/4” BOLT	2
51[a]	814219	LEAF CHAIN *(extend)*	2
52[a]	814220	LEAF CHAIN *(retract)*	1

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Four-Section Boom



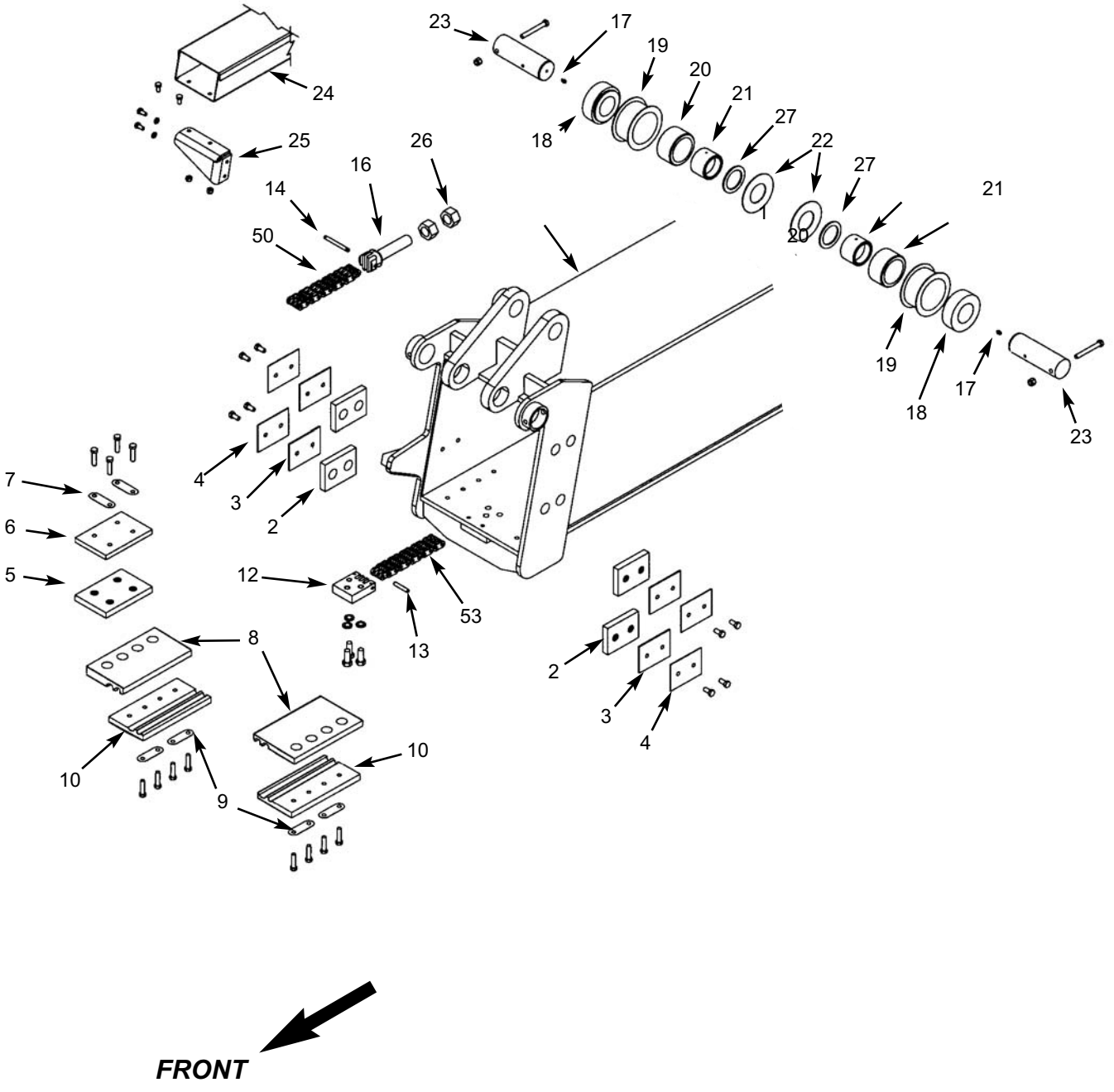
First Intermediate Boom - Rear Section



MT-1155 Boom - Four-Section Low

First Intermediate Boom - Rear Section

Ref. No.	Part No.	Description	Qty. Req.
01	814273	FIRST INTERM. SECTION.	1
02	808693	BOTTOM SLIDE PAD 3” x 4”	2
03	808696	BOLT FLAT LOCK	2
	814211	3/8”-16 x7/8” BOLT	4
04	808693	SIDE SLIDE PAD 3” x 4”	4
05	808702	SHIM 0.105” x 3” x 4”	4
06	809505	SHIM 0.06” x 3” x 4”	4
07	808696	BOLT FLAT LOCK	4
	813677	3/8”-16 x 3/4” BOLT	8
08	814210	TOP SLIDE PAD 4” x 6”	2
09	814229	HARDENED WASHER	2
10	809504	SHIM 0.105” x 4” x 6”	2
11	808696	BOLT FLAT LOCK	4
	813697	3/8”-16 x 1-1/2”	8
12	814274	SHEAVE	1
13	808477	ROLLER BEARING	1
14	808478	INNER RING	1
15	808423	GREASE ZERK 90º 1/4”-28	1
16L	808932	REAR SHEAVE PIN	1
	813711	3/8”-16 x 3” BOLT	1
	808663	NYLON INSERT NUT 3/8”	1
17	808691	SLIDE PAD	1
	813677	3/8”-16 x 3/4” BOLT	1
	813849	LOCK WASHER 3/8”	1
18	814275	HOSE TRAY	1
19	814223	SPACER	2

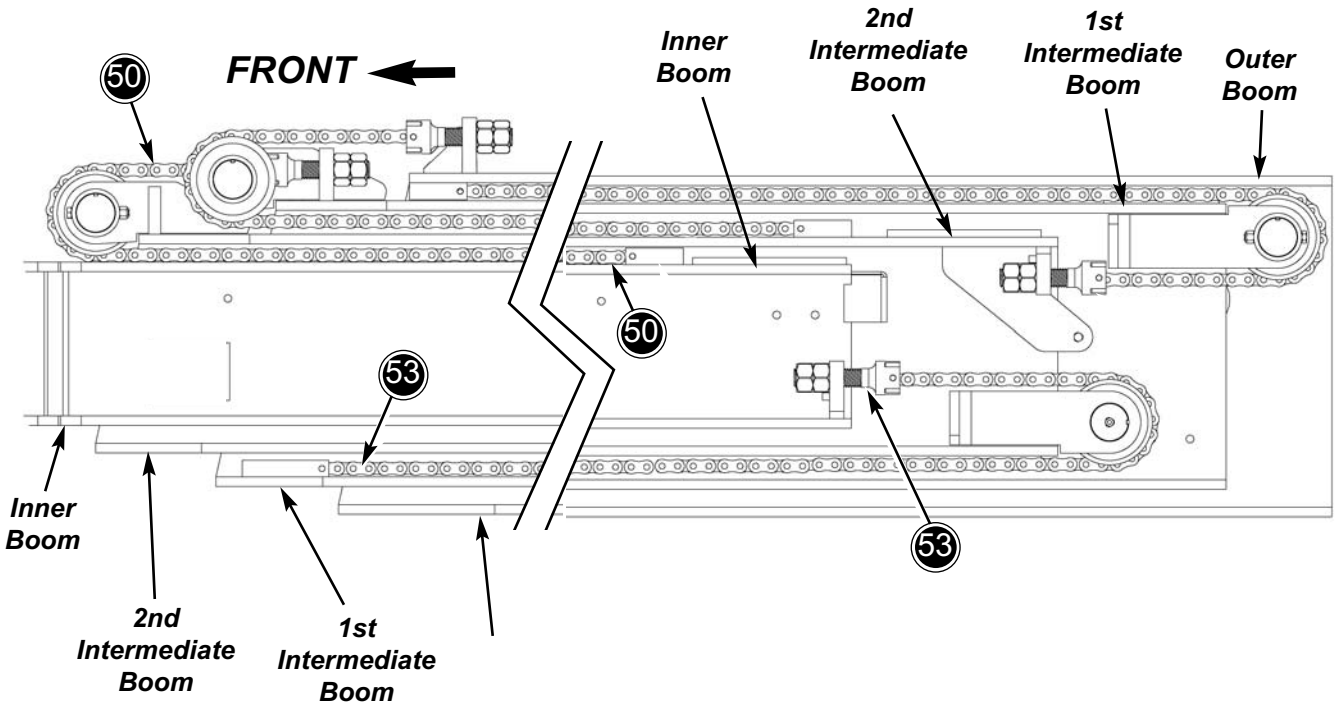

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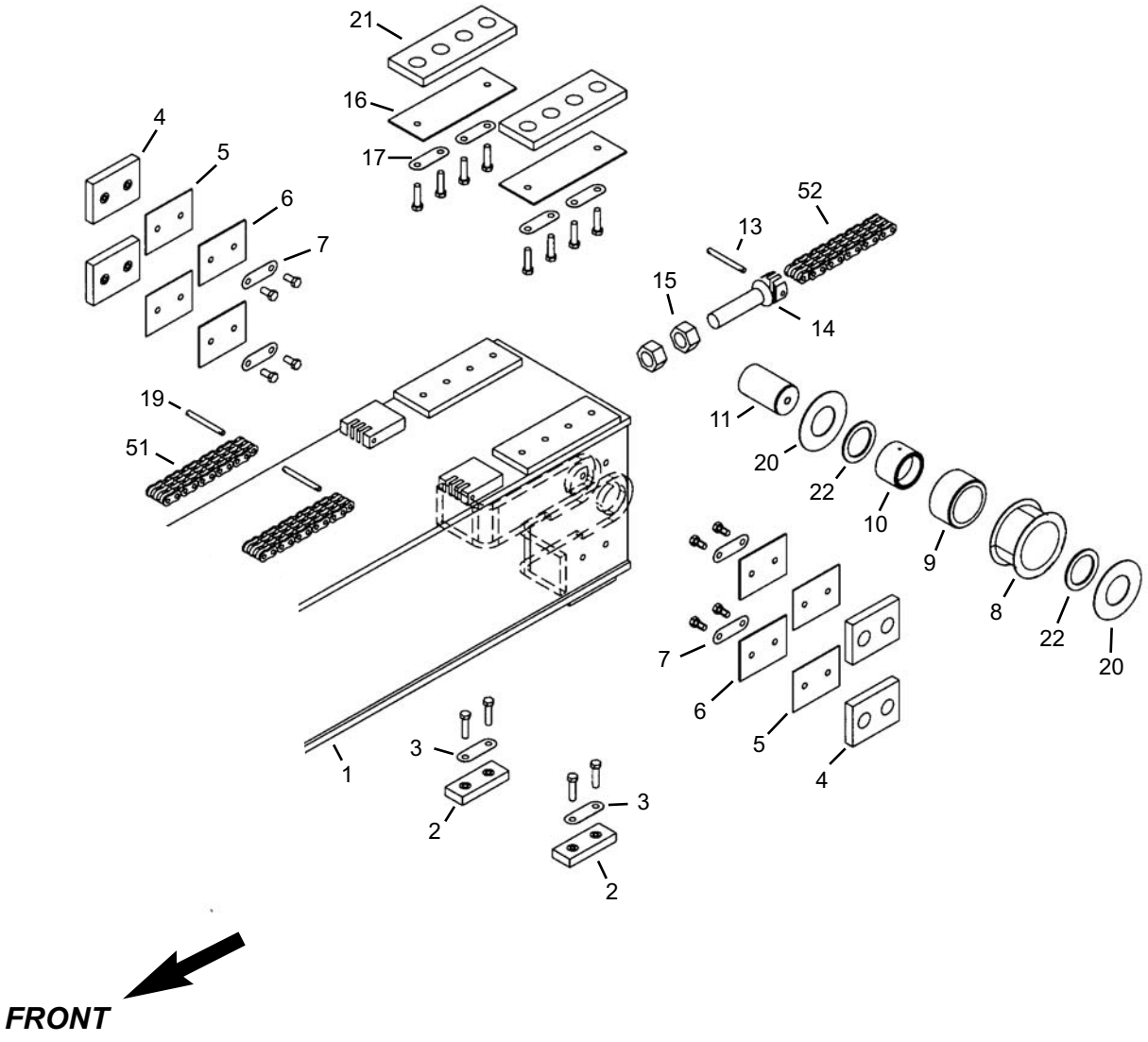
First Intermediate Boom - Front Section

Ref. No.	Part No.	Description	Qty. Req.
01	814273	FIRST INTERM. SECTION.	1
02	808693	SIDE SLIDE PAD 3” x 4”	4
03	808702	SHIM 0.105” x 3” x 4”	4
04	809505	SHIM 0.06” x 3” x 4”	4
	813677	3/8”-16 x 3/4”	8
05	809501	TOP SLIDE PAD 4” x 6”	1
06		SHIM	AR
	814224	SHIM, 1/2” x 4” X 6”	
	808700	SHIM, 1/16” x 4” X 6”	
	809504	SHIM, 1/8” x 4” X 6”	
07	808696	BOLT FLAT LOCK	2
	813697	3/8”-16 x 1-1/2” BOLT	4
08	814225	SLIDE PAD *(w/integrated clamp)*	2
09	808696	BOLT FLAT LOCK	4
	813697	3/8”-16 x 1-1/2” BOLT	8
10	814230	SPACER PAD *(w/integrated clamp)*	2
12	814226	FIXED CLEVIS	1
	814215	SET SCREW #10-24 x 3/4”	2
	808619	1/2”-20 x 1-1/4” GR8 BOLT	3
	814276	LOCK WASHER 1/2”	3
13	814216	FIXED CHAIN PIN	1
14	814217	CHAIN PIN	1
	808673	COTTER PIN 3/32” x 1-1/4”	1
16	814218	ADJUSTABLE CLEVIS	1
17	808424	GREASE ZERK, STR. 1/4”-28	2
18	814228	SHEAVE SPACER	2
19	809882	CHAIN SHEAVE	2
20	808477	ROLLER BEARING	2
21	808478	INNER RING	2
22	814229	THRUST WASHER	2
23	814227	SHEAVE PIN	2
	813711	3/8-16” x 3” BOLT	2
	808663	NYLON INSERT NUT 3/8	2
24	814275	HOSE TRAY WELDMENT	1
	814206	5/16”-18 x 5/8”	2
	808662	NYLON INSERT NUT 5/16”	2
25	808869	INNER TRAY BRACKET	1
	814206	5/16”-18 x 5/8”	2
	808497	LOCKWASHER 5/16”	2
	814205	CUSHION MNT PLATE *(weld on)*	AR
26	808584	HEX NUT 1”-8	2
27	814223	SPACER	2
50[a]	814231	LEAF CHAIN *(extend)*	1
53[a]	814220	LEAF CHAIN *(retract)*	1

a *This parts manual shows the same chain(s) on multiple pages. Before ordering chains, refer to the illustration below to avoid ordering the incorrect chain(s) or incorrect quantities.*

Four-Section Boom



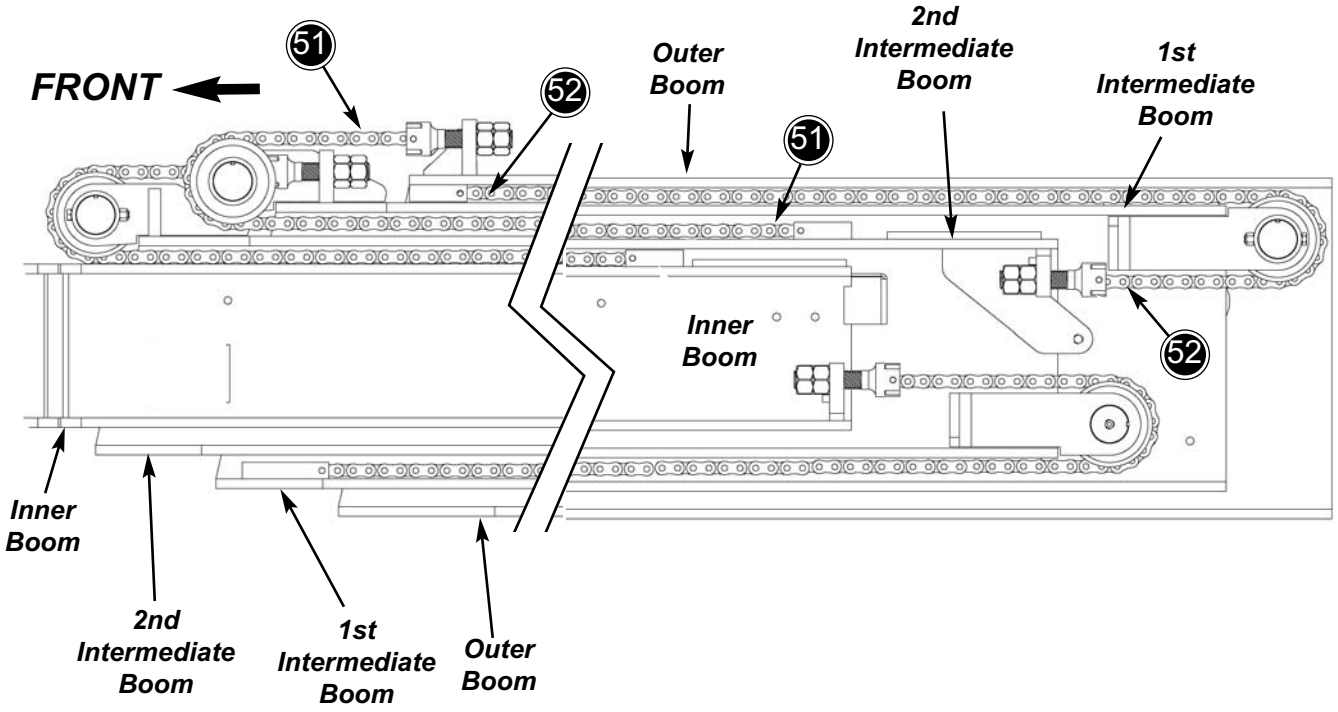

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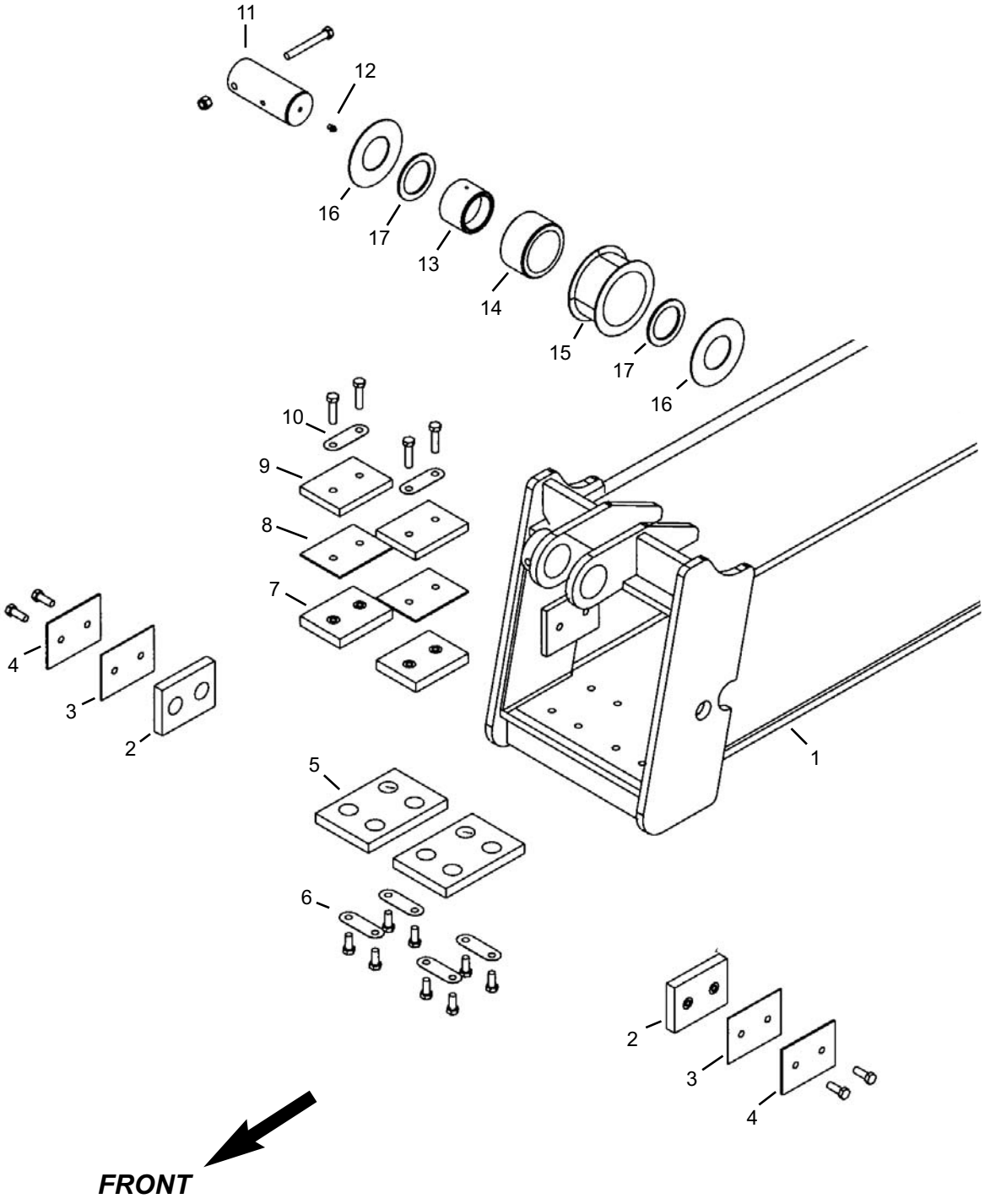
Second Intermediate Boom - Rear Section

Ref. No.	Part No.	Description	Qty. Req.
01	814232	2ND-INTERMEDIATE BOOM	1
02	814233	SLIDE PAD 1.5” x 4”	2
03	808696	BOLT FLAT LOCK	2
	813697	3/8”X1-1/2” BOLT	4
04	809502	SLIDE PAD 3” x 4”	4
05	808701	SHIM 0.06” x 3” x 4”	4
06	808702	SHIM 0.105” x 3” x 4”	4
07	808696	BOLT FLAT LOCK	4
	813677	3/8” x 3/4” BOLT	8
08	809882	CHAIN SHEAVE	1
09	808477	ROLLER BEARING	1
10	808478	INNER RING	1
11	814234	SHEAVE PIN	1
13	814217	CHAIN PIN	1
	808673	3/32” x 1-1/4” COTTER PIN	2
14	814218	ADJUSTABLE CLEVIS	1
15	808584	1” NUT	2
16	808819	SHIM 0.105” x 3” x 8”	2
17	808696	BOLT FLAT LOCK	4
	813697	3/8” x 1-1/2” BOLT	8
19	814217	CHAIN PIN	2
	808673	3/32” x 1-1/4” COTTER PIN	4
20	814229	THRUST WASHER	2
21	814235	SLIDE PAD 3” x 8”	2
22	814223	SPACER	2
51[a]	814219	LEAF CHAIN *(extend)*	2
52[a]	814220	LEAF CHAIN *(retract)*	1

a *This parts manual shows the same chain(s) on multiple pages. Before ordering chains, refer to the illustration below to avoid ordering the incorrect chain(s) or incorrect quantities.*

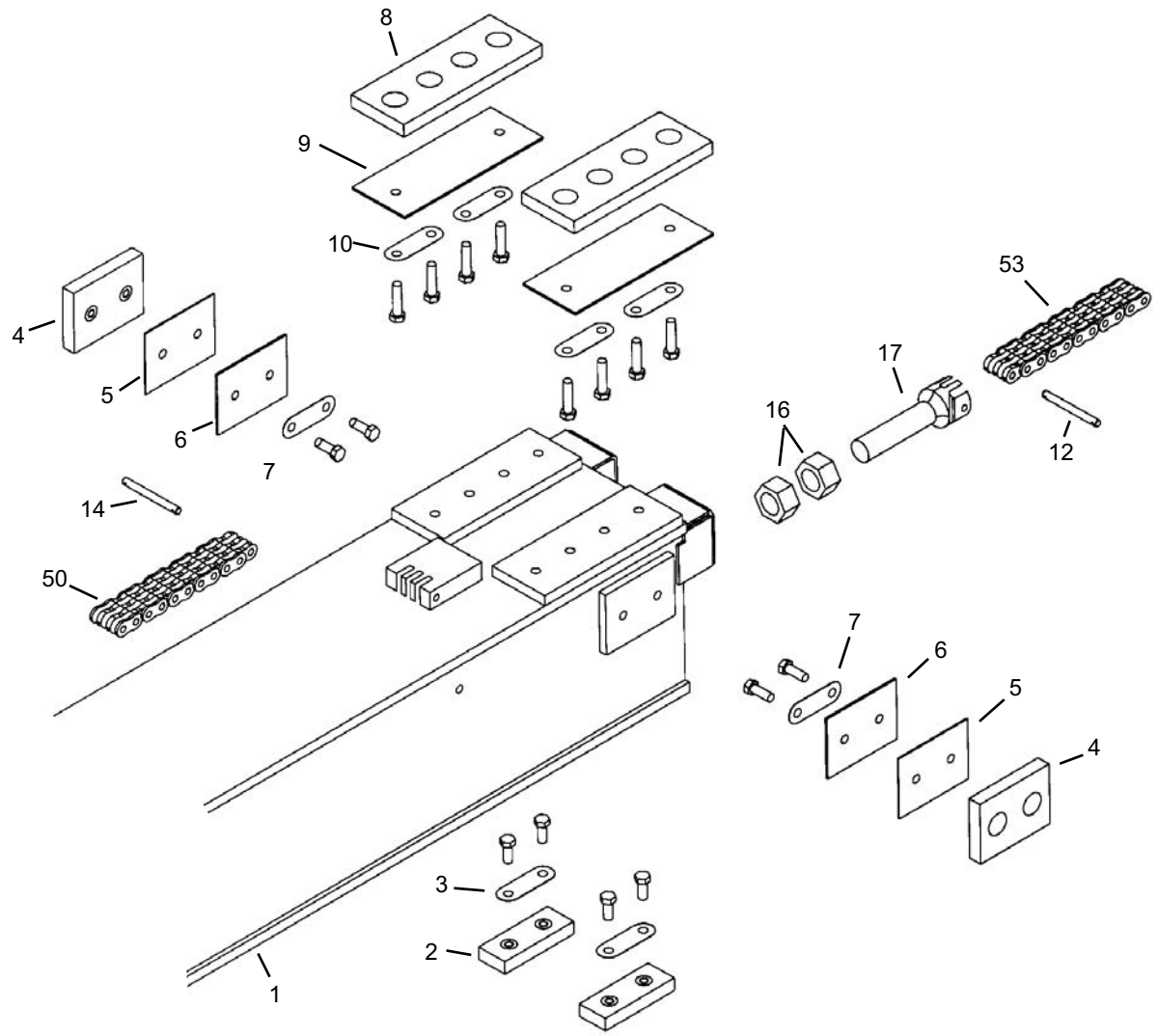
Four-Section Boom




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Second Intermediate Boom - Front Section

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814232	2ND-INTERMEDIATE BOOM	1	10	808696	BOLT FLAT LOCK	2
02	808693	SLIDE PAD 3” x 4”	2		813697	3/8” x 1-1/2” BOLT	4
	813574	3/8” x 1” BOLT	4	11	808932	SHEAVE PIN	1
03	808701	SHIM 0.06” x 3” x 4”	2		813711	3/8” x 3” BOLT	1
04	808702	SHIM 0.105” x 3“ x 4”	2		808663	3/8” NYLON INSERT NUT	1
05	814210	BOTTOM SLIDE PAD 4” x 6”	2	12	808424	GREASE ZERK STR. 1/4”-28	1
06	808696	BOLT FLAT LOCK	4	13	808478	INNER RING	1
	814211	3/8” x 7/8” BOLT	8	14	808477	ROLLER BEARING	1
07	809502	SLIDE PAD 3” x 4”	2	15	814274	CHAIN SHEAVE	1
08	808702	SHIM 0.105” x 3” x 4”	2	16	814229	THRUSTWASHER	2
09	808747	SHIM 0.50” x 3” x 4”	2	17	814223	SPACER	2

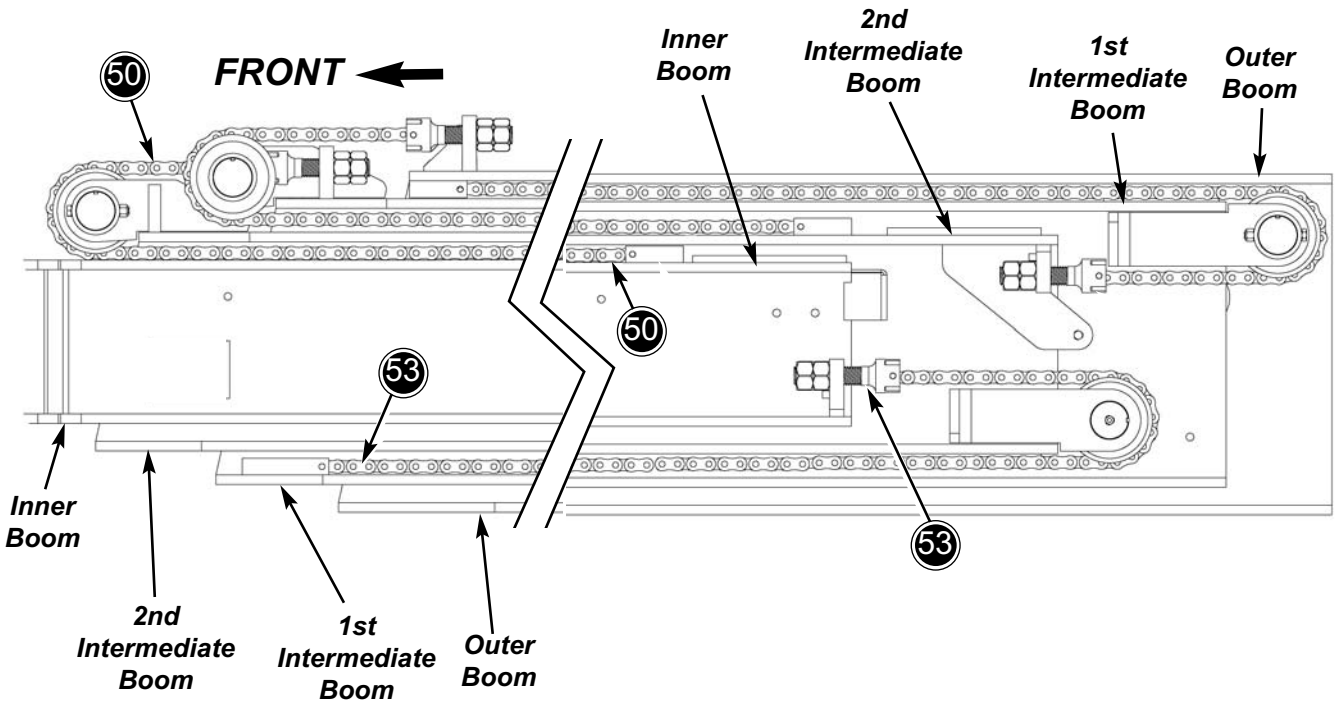

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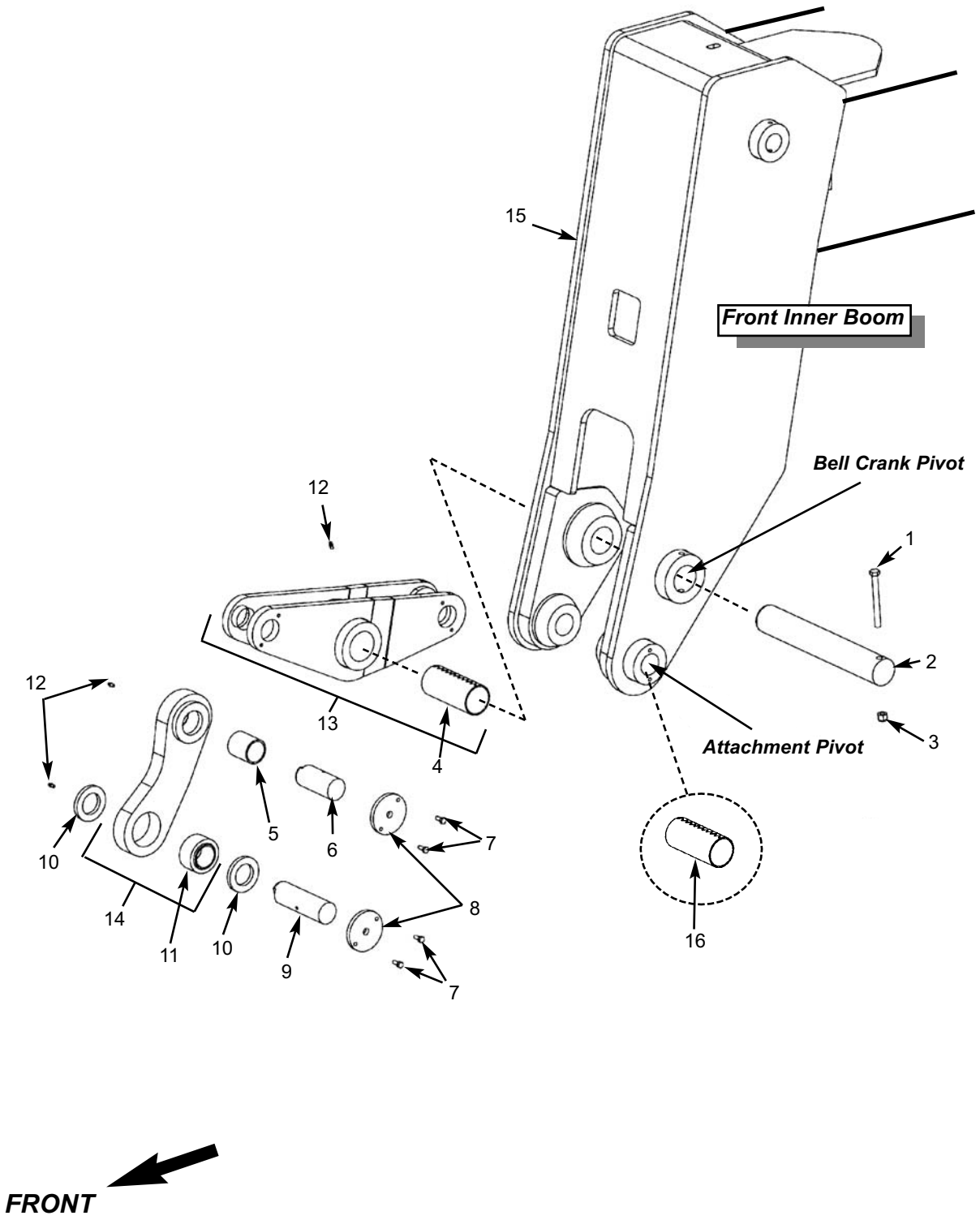
Inner Boom - Rear Section

Ref. No.	Part No.	Description	Qty. Req.
01	814277	INNER WELDMENT	1
02	814233	BOTTOM SLIDE PAD 1.5” x 4”	2
03	808696	BOLT FLAT LOCK	2
	814211	3/8” x 7/8” BOLT	4
04	809502	SLIDE PAD 3” x 4”	2
05	808701	SHIM 0.06” x 3” x 4”	2
06	808702	SHIM 0.105” x 3” x 4”	2
07	808696	BOLT FLAT LOCK	2
	813574	3/8” x 1” BOLT	4
08	814235	SLIDE PAD 3” x 8”	2
09	808819	SHIM 0.105” x 3” x 8”	2
10L	808696	BOLT FLAT LOCK	4
	813697	3/8” x 1-1/2” BOLT	8
11	814218	ADJUSTABLE CLEVIS	1
12	814217	CHAIN PIN	1
	808673	3/32” x 1-1/4” COTTER PIN	2
14	814217	CHAIN PIN	1
	808673	3/32” x 1-1/4” COTTER PIN	2
16	808584	1” NUT	2
17	814218	ADJUSTABLE CLEVIS	1
50[a]	814231	LEAF CHAIN *(extend)*	1
53[a]	814220	LEAF CHAIN *(retract)*	1

a *This parts manual shows the same chain(s) on multiple pages. Before ordering chains, refer to the illustration below to avoid ordering the incorrect chain(s) or incorrect quantities.*

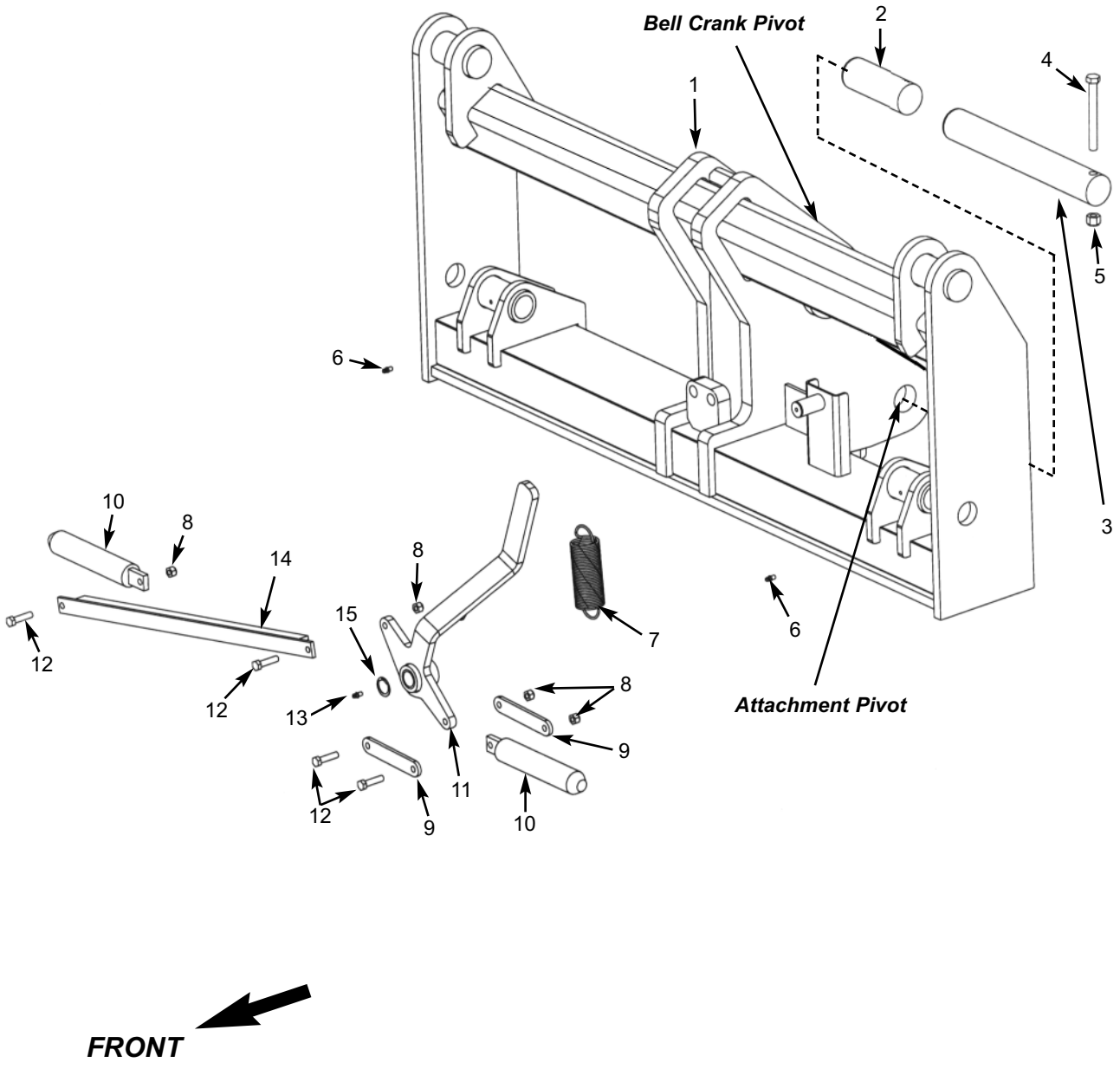
Four-Section Boom



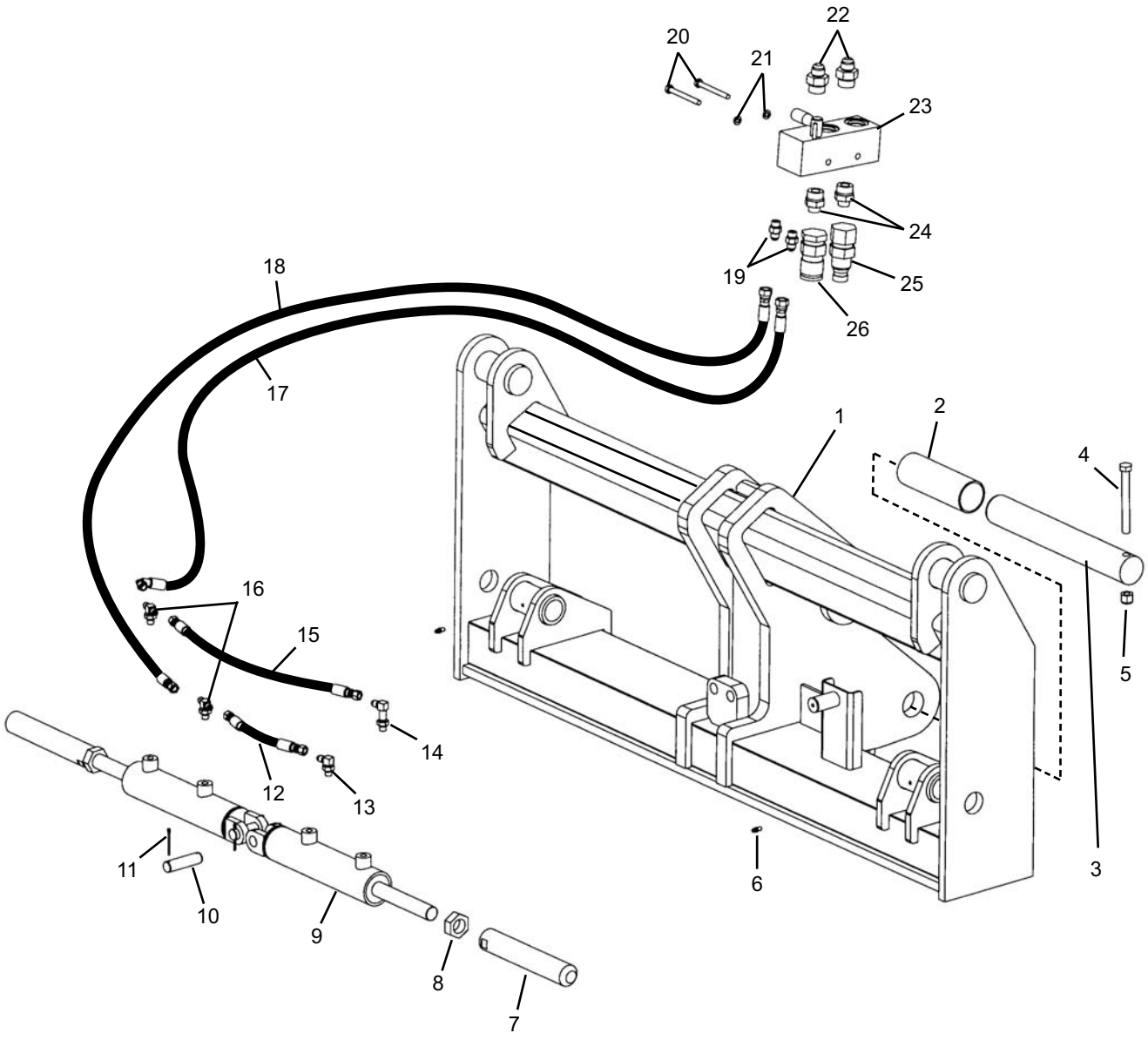

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Front Inner Boom
Bell Crank Pivot
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Attachment Pivot
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FRONT

Inner Boom - Front Section

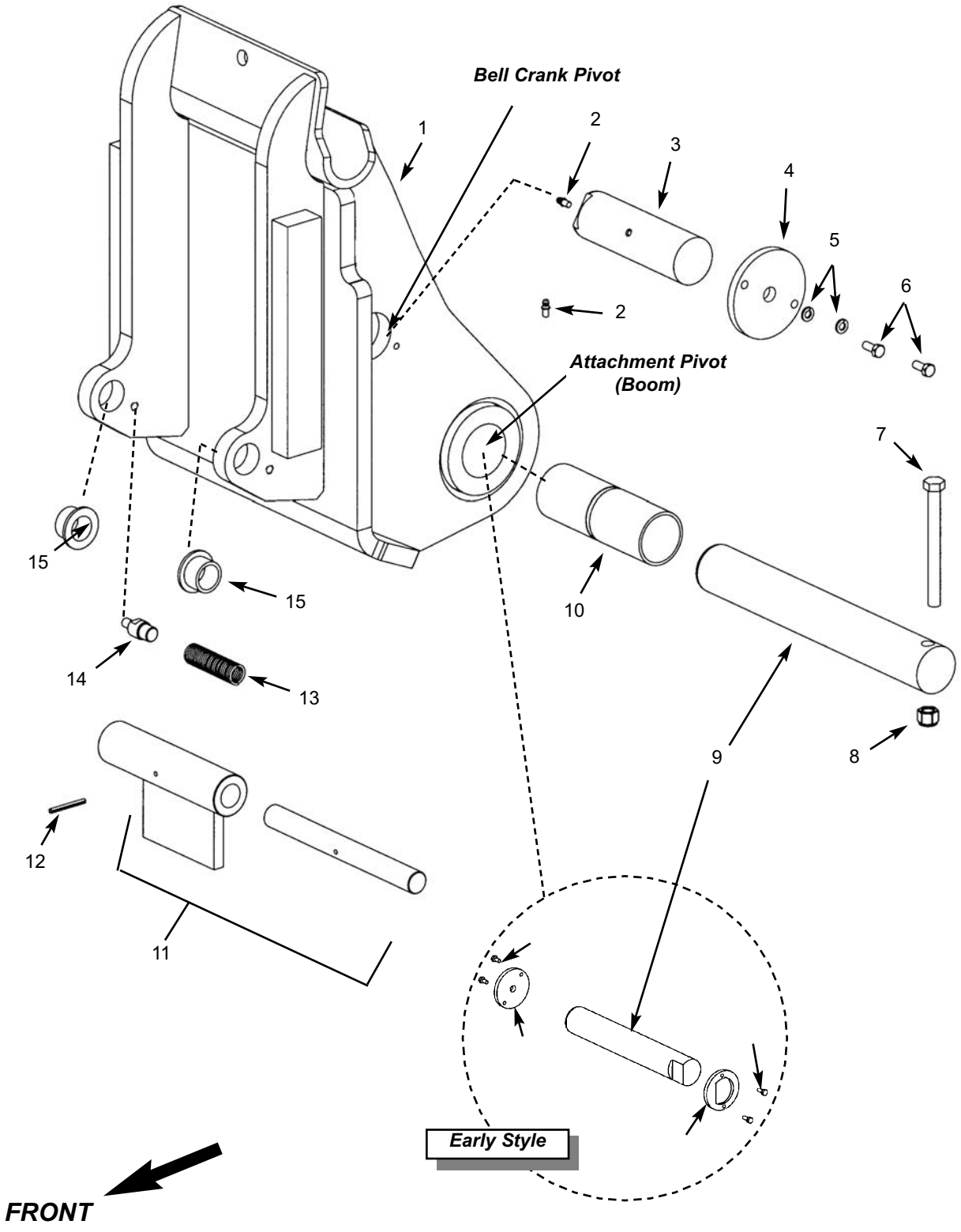
Ref. No.	Part No.	Description	Qty. Req.
01	809685	1/2-13 x 5” BOLT	1
02	814278	BELL CRANK PIVOT PIN	1
03	808665	1/2”-13 NYLON INSERT NUT	2
04	814279	SPRING BUSHING	1
05	814280	SPRING BUSHING	1
06	814281	BELL CRANK END PIN	1
07	808498	5/16”-18 x 3/4” BOLT	6
08	808873	PIVOT PIN CAP	AR
09	814282	Z-BAR LINK PIN	1
10	814283	Z-BAR SPACER	2
11	814284	SPHERICAL BEARING	1
12L	808424	ZERK 1/4”-28 STRAIGHT	3
13	814285	BELL CRANK W/BUSHING *(includes item 4)*	1
14	814286	Z-BAR LINK *(includes items 5, 11)*	1
15	814277	LOW INNER BOOM WELDMENT	1
16	814241	BUSHING	2


Bell Crank Pivot
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Attachment Pivot
FRONT

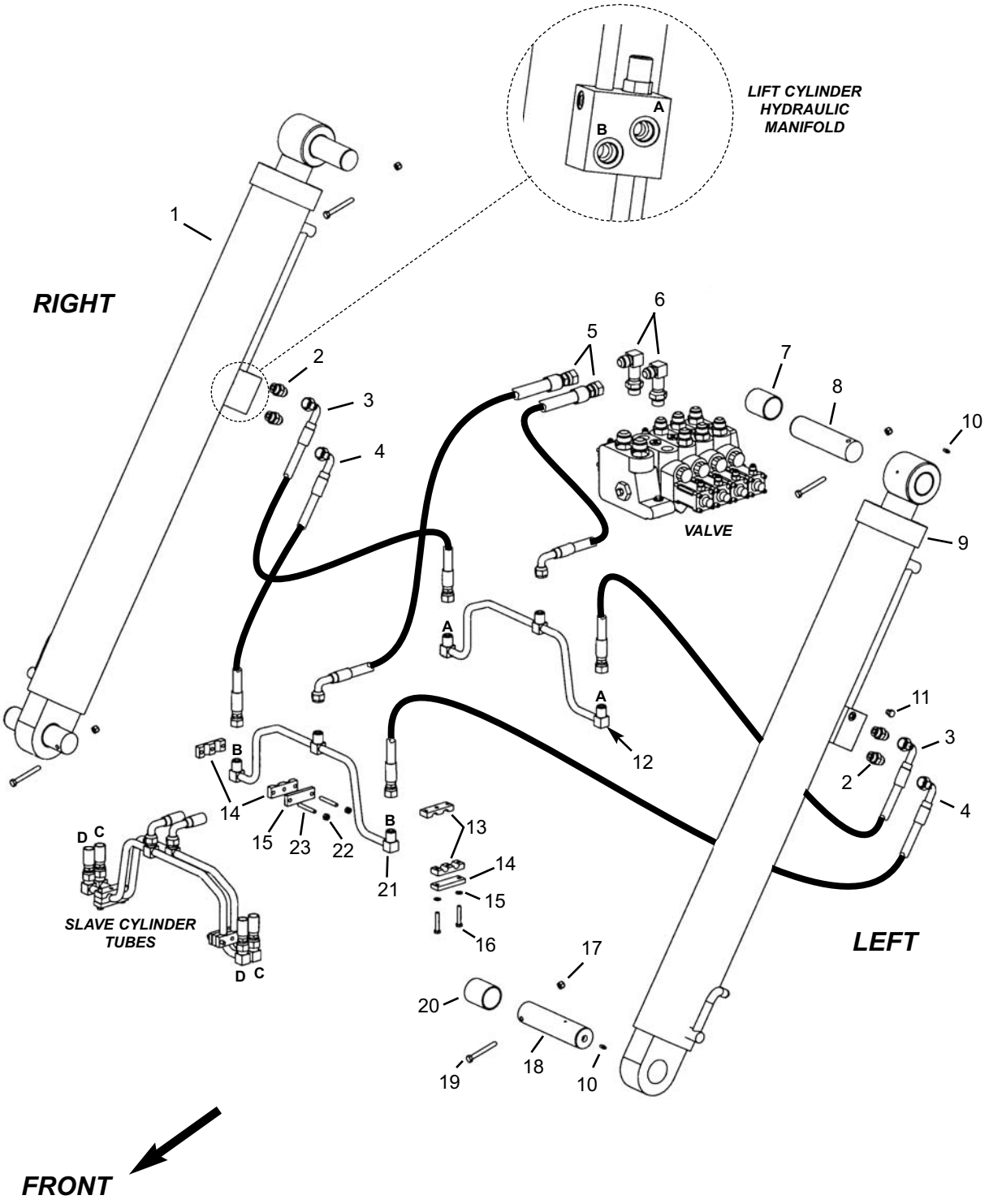
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814287	DYNACARRIER WELDMENT	1	09	814246	LOCK COUPLER BAR	2
02	808085	BUSHING	1	10	814247	LOCK PIN WELDMENT	2
03	814243	CARRIER PIVOT PIN	1	11	814248	LOCK HANDLE WELDMENT	1
04	808651	1/2”-13 x 4-1/2” BOLT	1		814249	BRONZE BUSHING	1
05	808665	1/2”-13 NYLON INSERT NUT	1	12	813697	3/8-16 x 1-1/2” BOLT	4
06	808424	1/4”-28 GREASE ZERK, STR.	3	13	808424	1/4”-28 GREASE ZERK, STR.	4
07	814245	LATCH SPRING	1	14	814250	LATCH COUPLER BAR	1
08	808663	3/8”-16 NYLON INSERT NUT	4	15	814251	1” RETAINING CLIP	1


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Ref. No.	Part No.	Description	Qty. Req.
01	814287	DYNACARRIER® WELDMENT	1
02	808085	BUSHING	1
03	814243	CARRIER PIVOT PIN	1
04	808651	1/2”-13 x 4-1/2” BOLT	1
05	808665	1/2”-13 NYLON INSERT NUT	1
06	808424	1/4”-28 GREASE ZERK, STR.	3
07	814252	ATTACHMENT LOCK PIN	2
08	813362	1” JAM NUT	2
09	814253	LOCK CYLINDER W/SPRING	2
10	814254	PIN, RELEASE CYL BASE	2
11	814255	1/8” x 1-1/2” COTTER PIN	4
12	814256	HOSE, -4 A4/A4 10”	1
13	813550	ADAP., -4ORM -4JICM 90º	1
14	814257	ADAP., -4ORM -4JICM 90º LONG	1
15	814258	HOSE, -4 A4/A4 22”	1
16	814259	ADAP., -4 ORM -4JICM TEE	2
17	814260	HOSE, -4 DS4/A6 33”	1
18	814261	HOSE, -4 A4/A6 38”	1
19	813596	ADAP., -6ORM -6JICM STR.	2
20	808415	5/16”-18 x 3” BOLT	2
21	808497	5/16” LOCK WASHER	2
22	814262	ADAP., -12ORM -12JICM STR.	2
23	814263	ATTACH REL. MANIFOLD	1
	814264	HANDLE	1
24	814265	ADAP., -12ORM -8ORM STR.	2
25	814266	MALE COUPLER	1
26	814267	FEMALE COUPLER	1


Bell Crank Pivot
Attachment Pivot
(Boom)
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Early Style
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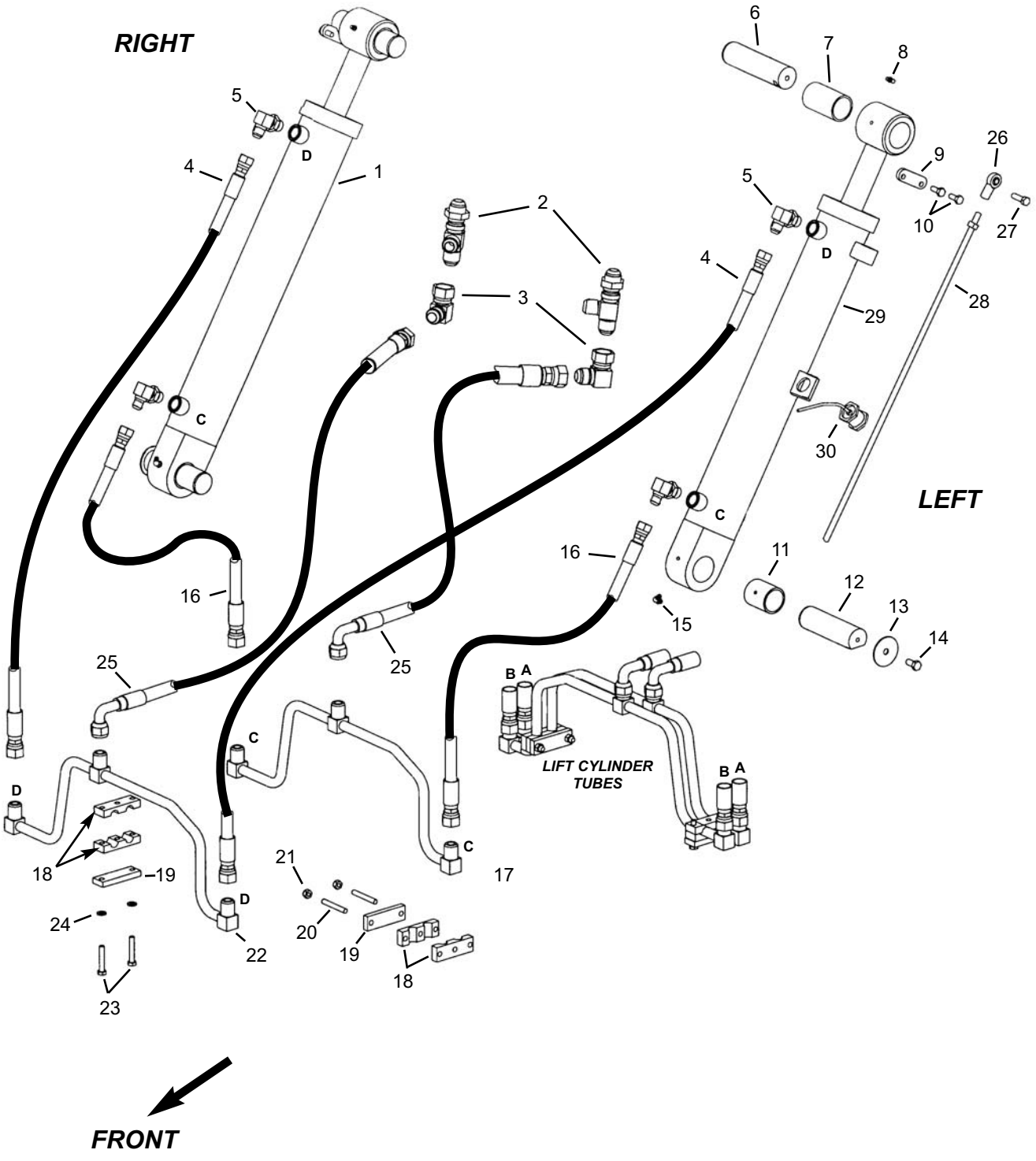
Ref. No.	Part No.	Description	Qty. Req.
01	814288	DYNATTACH® WELDMENT	1
02	808424	1/4” -28 STR GREASE ZERK	2
03	814282	Z-BAR LINK PIN	1
04	808873	PIN CAP	1
05	808497	5/16” LOCK WASHER	2
06	808498	5/16” x 3/4” BOLT	2
07	809685	1/2” x 5” BOLT	1
08	808665	1/2” NYLON INSERT NUT	1
09	814243	CARRIER PIVOT PIN	1
10	808085	BUSHING	1
11	808810	LOCK AND PIN ASSEMBLY	1
12	808633	3/16” x 1-3/4” ROLL PIN	1
13	808786	LOCK SPRING	1
14	808787	SPRING MOUNT	1
15	808811	BUSHING	2
16	808874	PIN LOCK CAP	1


LIFT CYLINDER HYDRAULIC MANIFOLD
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VALVE
SLAVE CYLINDER TUBES
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Ref. No.	Part No.	Description	Qty. Req.
01	814289	LIFT CYLINDER *(right)*	1
		(Model DL-7)	
	814290	LIFT CYLINDER *(right)*	1
		(Model DL-9, DL11 and DL-12)	
02	814291	ADAP., -10ORM -10JICM STR	4
03	814292	HOSE, -8 A10/DS10 24”	2
04	814293	HOSE, -8 A10/DS10 23”	2
05	814294	HOSE, -12 A12/DS10 36”	2
06	814295	ADAP., -12ORM -12JICM 90ºLNG	2
07	814296	BUSHING 2” x 2.25” x 3.5”	2
08	814297	LIFT PIN *(rod end)*	2
09	814298	LIFT CYLINDER *(left)*	1
		(Model DL-7)	
	814299	LIFT CYLINDER *(left)*	1
		(Model DL-9, DL11 and DL-11)	
10	808424	1/4”-28 GREASE ZERK STR	4
11	814300	PLUG -4ORM	2
12	814301	LIFT/SLAVE TUBE ASSEMBLY	1
13	808832	DOUBLE TUBE CUSHION	4
14	808727	TWIN CUSHION TOP PLATE	2
15	808497	5/16” LOCK WASHER	2
16	814302	5/16-18 x 1-3/4” BOLT	2
17	808663	3/8”-16 NYLON INSERT NUT	4
18	814303	LIFT PIN *(base end)*	2
19	813711	3/8”-16 x 3” BOLT	4
20	808858	BUSHING	2
21	814304	LIFT/SLAVE TUBE ASSEMBLY	1
22	808662	5/16”-18 NYLON INSERT NUT	2
23	809493	5/16”-18 x 2-1/4” STUD	2

Hose Locator

Ref No.	From Port	To Port
03	LIFT CYLINDER/MANIFOLD “A”	LIFT/SLAVE TUBE ASSEMBLY “A” *(as shown)*
04	LIFT CYLINDER/MANIFOLD “B”	LIFT/SLAVE TUBE ASSEMBLY “B” *(as shown)*
05	LIFT/SLAVE TUBE ASSEMBLY “A & B”	VALVE “A & B” *(as shown)*

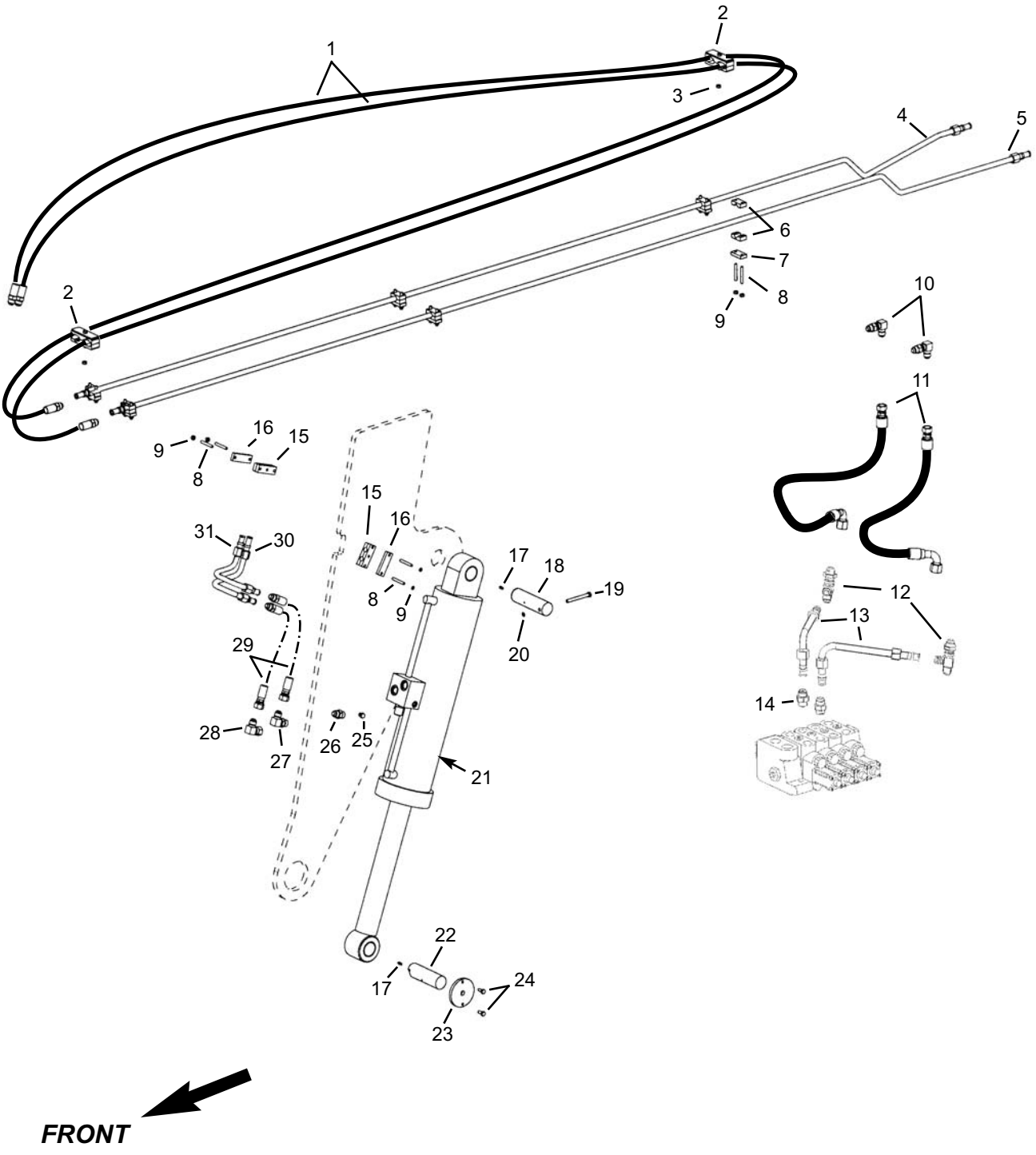

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LIFT CYLINDER TUBES
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Boom Slave Cylinder Group

Ref. No.	Part No.	Description	Qty. Req.
01	808860	SLAVE CYLINDER *(right)* *(high boom models)*	1
	814305	SLAVE CYLINDER *(right)* *(low boom models)*	1
02	814306	ADAP., -12JICM BLKHD R TEE	2
03	813704	ADAP., -12JICFS -12JICM 90º	2
04	814307	HOSE, -8 A8/A10 57”	2
05	814308	ADAP., -8ORM -8JICM 90º	4
06	814309	SLAVE CYLINDER PIN *(rod end)*	2
07	808709	BUSHING 660 1.5” x 3.0”	2
08	808424	1/4”-28 GREASE ZERK STR	2
09	814310	PIN LOCK BAR	2
10	808498	5/16”-18 x 3/4” BOLT	4
11	808831	BUSHING	2
12	814311	SLAVE CYLINDER PIN	2
13	814312	WASHER, 0.41” x 2”	2
14	813677	3/8”-16 x 3/4” BOLT	2
15	808423	1/4”-28 GREASE ZERK 90º	2
16	814313	HOSE, -8 A8/A10 38”	2
17	814304	LIFT/SLAVE TUBE ASSEMBLY	1
18	808832	DOUBLE TUBE CUSHION	4
19	808727	TWIN CUSHION TOP PLATE	2
20	809493	5/16”-18 x 2-1/4” STUD	2
21	808662	5/16”-18 NYLON INSERT NUT	2
22	814301	LIFT/SLAVE TUBE ASSEMBLY	1
23	814302	5/16”-18 x 1-3/4” BOLT	2
24	808497	5/16” LOCK WASHER	2
25	814314	HOSE, -8 A12/DS10 50”	2
26	813595	3/8” ROD END	1
27	813713	3/8”-16 x 1-1/4” BOLT	1
28	814315	PROXIMITY SENSOR ROD	1
	808471	3/8”-24 NUT	1
29	814316	SLAVE CYLINDER *(left)* *(high boom models)*	1
	814317	SLAVE CYLINDER *(left)* *(low boom models)*	1
30	808929	PROXIMITY SWITCH	1

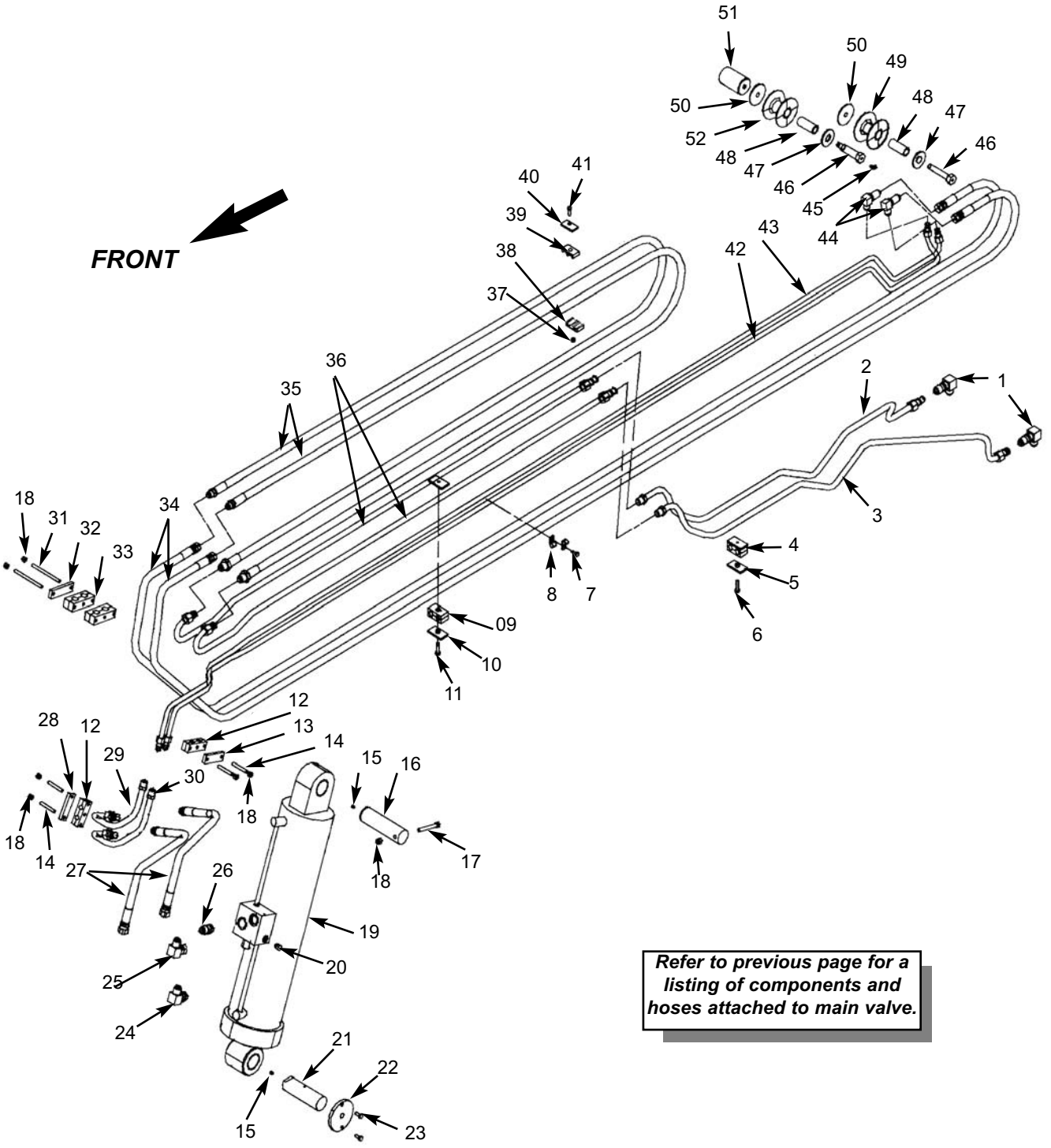
Hose Locator

Ref No.	From Port	To Port
04	SLAVE CYLINDER “D”	LIFT/SLAVE TUBE ASSEMBLY “D” *(as shown)*
16	SLAVE CYLINDER “C”	LIFT/SLAVE TUBE ASSEMBLY “C” *(as shown)*
25	LIFT/SLAVE TUBE ASSEMBLY “D”	(RIGHT) BULKHEAD TEE FITTING ABOVE
25	LIFT/SLAVE TUBE ASSEMBLY “C”	(LEFT) BULKHEAD TEE FITTING ABOVE


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FRONT

Tilt Cylinder Group - Three-Section High Boom

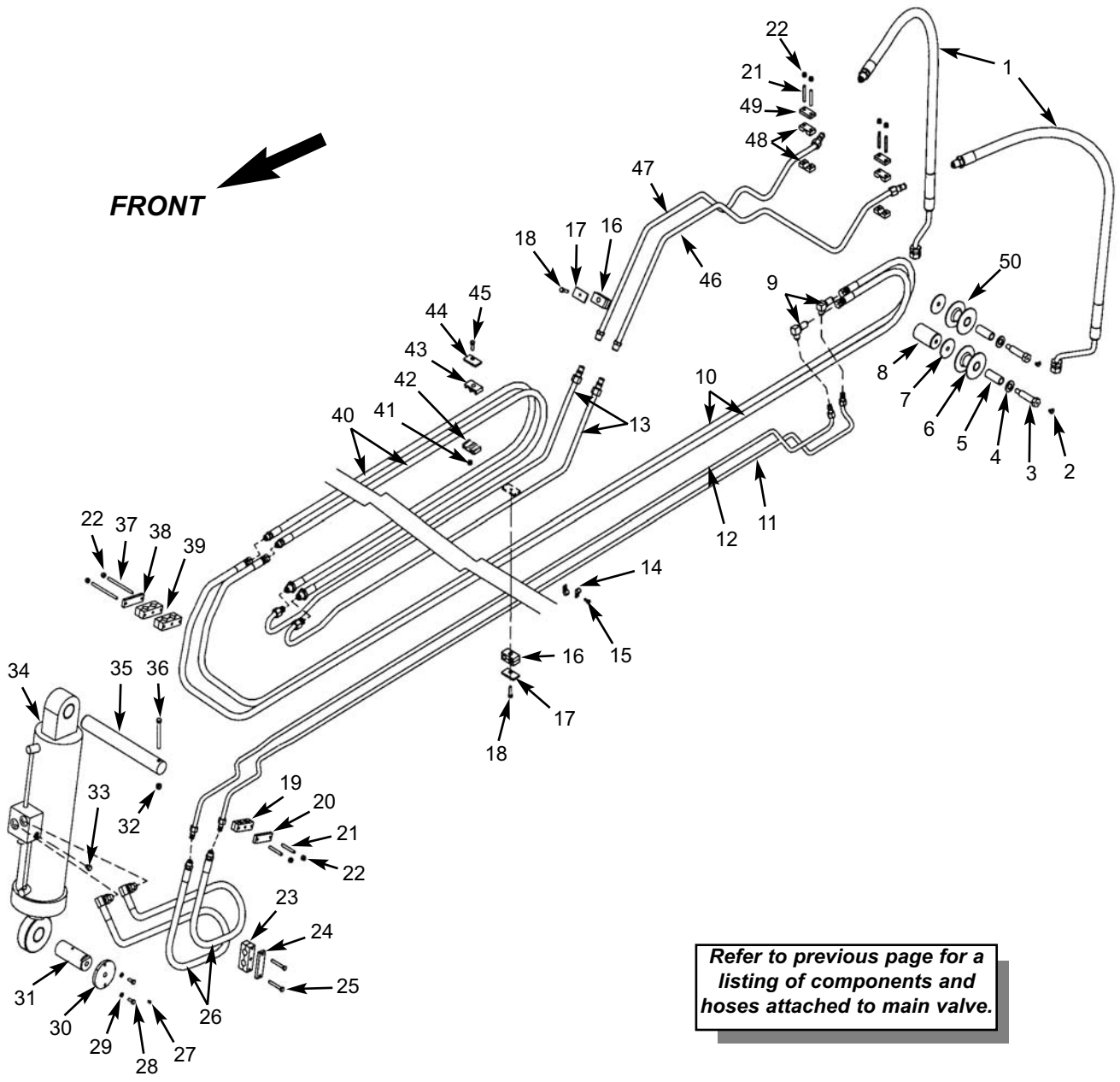
Ref. No.	Part No.	Description	Qty. Req.
01		HOSE, -8 H10/H10	2
	814318	*Used with 40' High Boom*	
	808886	*Used with 44" High Boom*	
	808582	HOSE SLEEVE	1
02	808949	HOSE CLAMP ASSEMBLY	2
03	808555	5/16"-18 FLARE NUT	2
04	814319	TILT CYLINDER TUBE	1
05	814320	TILT CYLINDER TUBE	1
06	814321	TUBE CUSHION, SINGLE 5/8"	12
07	814322	TUBE CUSHION TOP PLATE	6
08	809493	5/16"-18 x 2-1/4" STUD	16
09	808662	5/16"-18 NYLON INSERT NUT	16
10	814323	ADAP., -10JICM BLKHD 90º	2
11	814324	HOSE, -12 A10/DS12 42"	2
12	814306	ADAP., -12JICM BLKHD RUN TEE	2
13	814325	TILT CYLINDER TUBE	2
14	814326	ADAP., -12ORM -12JICM STR	2
15	808832	TUBE CUSHION DBL 5/8"	4
16	808727	HOSE CUSHION TOP PLATE	2
17	814327	1/4"-28 GREASE ZERK STR.	2
18	808871	PIN, TILT CYL BASE END	1
19	814328	3/8"-16 x 3-1/2" BOLT	1
20	808663	3/8" NYLON INSERT NUT	1
21	808859	TILT CYLINDER	1
22	808875	PIN, TILT CYL ROD END	1
23	808873	PIVOT PIN CAP	1
24	808498	5/16"-18 x 3/4" BOLT	2
25	814300	PLUG, AIRWAY -4ORM	1
26	814291	ADAP., -10ORM -10JICM STR.	1
27	814329	ADAP., -10ORM -10JICM 90º	1
28	814340	ADAP., -10JICFS -10JICM 90º	1
29	808893	HOSE, -8 A10/H10 20"	2
30	814341	TILT CYLINDER TUBE	1
31	808863	TILT CYLINDER TUBE	1



Refer to previous page for a listing of components and hoses attached to main valve.

Tilt Cylinder Group - Four-Section High Boom

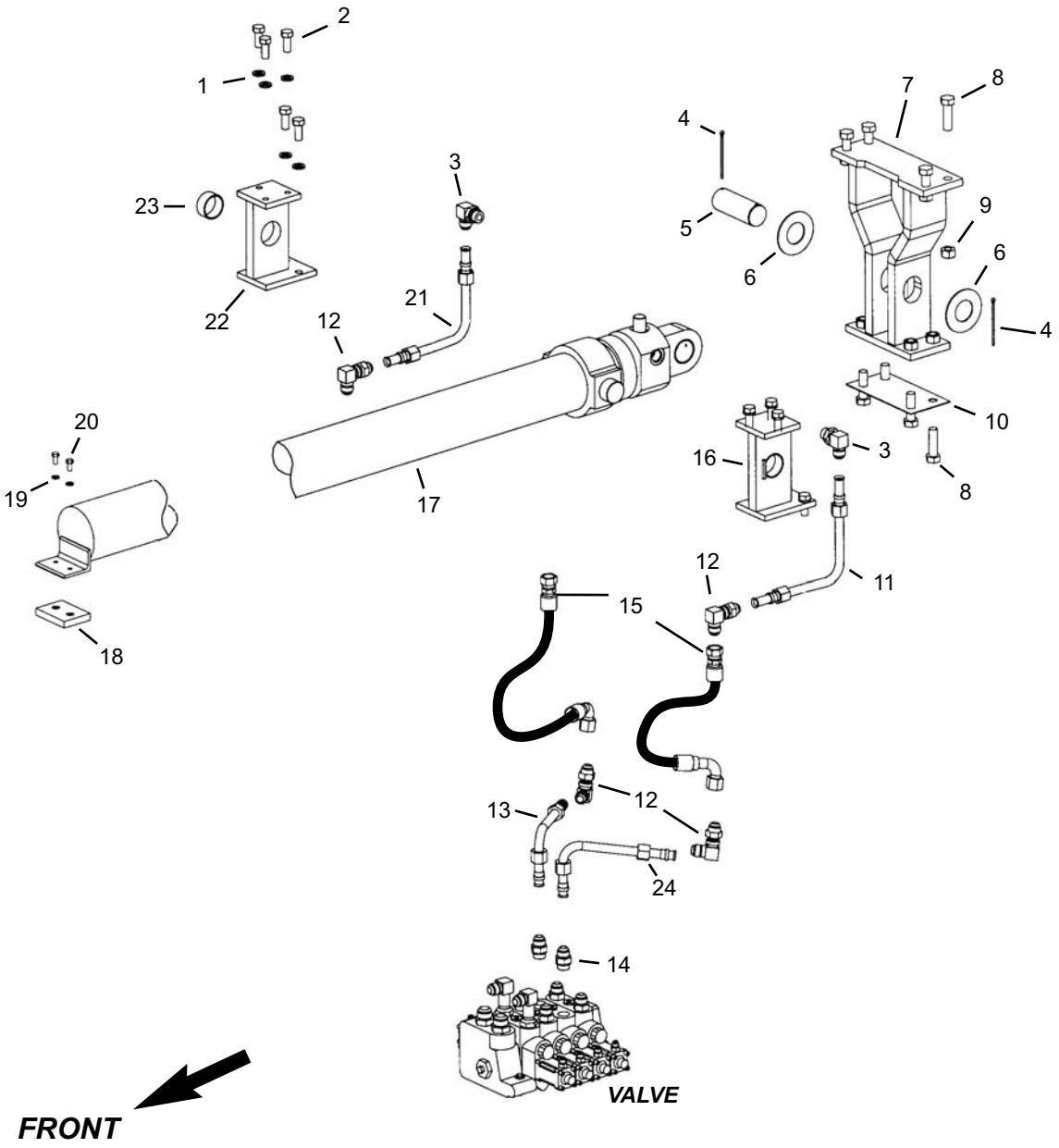
Ref. No.	Part No.	Description	Qty. Req.
01	814323	ADAP., -10JICM BLKHD 90º	2
02	814342	OUTER REAR TUBE	1
03	814343	OUTER REAR TUBE	1
04	808880	DOUBLE TUBE CLAMP 0.62”	1
05	808881	CLAMP TOP PLATE	1
06	814344	5/16”-18 x 1-1/4” BOLT	1
07	813386	1/4”-20 x 5/8” BOLT	5
08	814345	VINYL CLAMP	10
09	808880	DOUBLE TUBE CLAMP 0.62”	4
10	808881	CLAMP TOP PLATE	4
11	814344	5/16”-18 x 1-1/4” BOLT	4
12	814346	TWIN TUBE CUSHION 0.50”	1
13	808727	TWIN NARROW TOP PLATE	1
14	809493	STUD 5/16”-18 x 2-1/4”	2
15	808424	GREASE ZERK STR. 1/4”-28	2
16L	808871	BASE END PIVOT PIN	1
17	813711	3/8”-16 x 3” BOLT	1
18	808663	3/8” NYLON INSERT NUT	1
19	808859	TILT CYLINDER	1
20	814300	PLUG, -4ORM	1
21	808875	ROD END PIVOT PIN	1
22	808873	PIVOT PIN CAP	1
23	808498	5/16”-18 x 3/4” BOLT	2
24	814329	ADAP., -10ORM -10JIC 90º	1
25	814340	ADAP., -10JICF -10JICM 90º	1
26	814291	ADAP., -10ROM -10JICM STR	1
27	814347	HOSE ASSEMBLY -8 x 20”	2
28	808727	TWIN NARROW TOP PLATE	1
29	814348	INNER NOSE TUBE	1
30	814349	INNER NOSE TUBE	1
31	814350	STUD 5/16”-18 x 4-1/2”	2
32	808729	TWIN WIDE TOP PLATE	1
33	814361	TWIN HOSE CUSHION 0.88”	2
34	814362	HOSE ASSEMBLY -8 x 254”	1
35	814363	HOSE ASSEMBLY -8 x 290”	2
	814364	HOSE SLEEVE	1
36	814365	OUTER FRONT TUBE	2
37	808555	NUT	1
38	814366	CLAMP BOTTOM	1
39	814367	CLAMP TOP	1
40	809619	TOP PLATE	1
41	814368	5/16”-18 x 2” BOLT	1
42	814369	INNER TUBE	1
43	814370	INNER TUBE	1
44	814371	ADAP., -8JICM BULKHEAD 90º	2
45	808423	GREASE ZERK 90º 1/4-28	1
46	814372	RETAINER BOLT	1
47	814373	WASHER 3/4”	2
48	814374	RETAINER SPACER	2
49	814375	HOSE GUIDE	1
50	814376	PIN WASHER	2
51	814234	PIN	1
52	814377	HOSE GUIDE	1



Refer to previous page for a listing of components and hoses attached to main valve.

Tilt Cylinder Group - Four-Section Low Boom

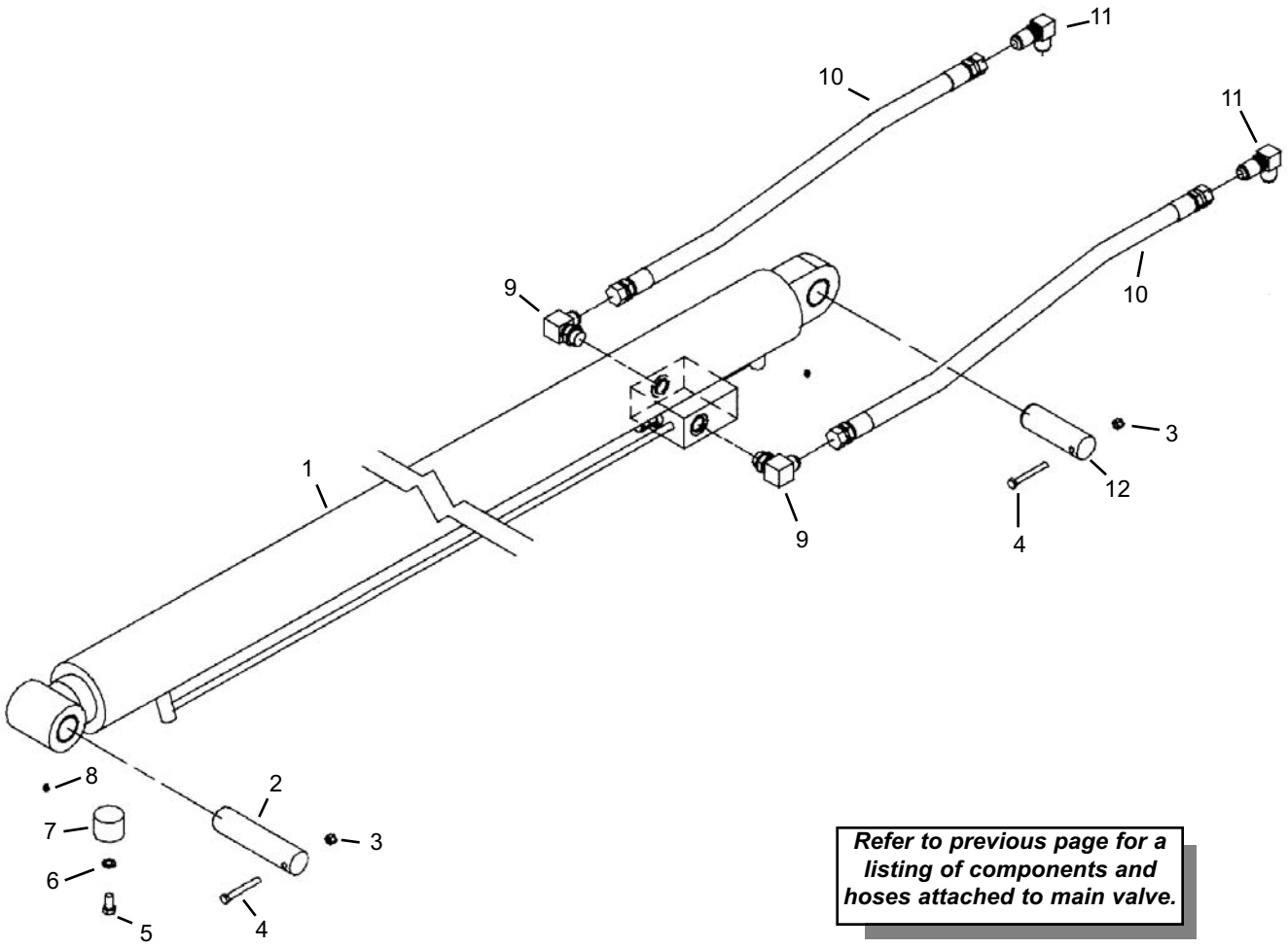
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814378	HOSE ASSEMBLY -12 x 53”	2	26	814383	HOSE ASSEMBLY -8 x 54”	2
02	808423	GREASE ZERK 90º 1/4”-28	2	27	808424	GREASE ZERK STR. 1/4”-28	1
03	814372	HOSE RETAINER BOLT	2	28	808498	5/16”-18 x 3/4” BOLT	2
04	814373	WASHER 3/4”	2	29	808497	LOCK WASHER 5/16”	2
05	814374	HOSE RETAINER SPACER	2	30	808873	PIVOT PIN CAP	1
06	814377	HOSE GUIDE	1	31	814384	ROD END PIN	1
07	814376	SHEAVE PIN WASHER	2	32	808663	NYLON INSERT NUT 3/8”-16	1
08	814234	REAR SHEAVE PIN	1	33	814300	ADAP., PLUG -4ORM	1
09	814323	ADAP., -10JICM BLKHD 90º	2	34	814385	TILT CYLINDER	1
10	814362	HOSE ASY. -8X254 *(Twin Line)*	1	35	814386	BASE END PIN	1
11	814369	INNER TUBE	1	36	814387	3/8”-16 x 4” BOLT	1
12	814370	INNER TUBE	1	37	814350	STUD 5/16”-18 x 4-1/2”	2
13	814379	TILT TUBE	2	38	808729	TWIN WIDE TOP CLAMP	1
14	814345	VINYL CLAMP	10	39	814388	TWIN HOSE CUSHION	2
15	814380	1/4”-20 x 5/8”	5	40	814389	HOSE ASSEMBLY -8 x 268”	2
16	808880	DBL. TUBE CLAMP 0.63”	4		814364	HOSE SLEEVE	1
17	808881	TWIN TUBE TOP PLATE	4	41	808555	NUT	1
18	814344	5/16”-18 x 1-1/4” BOLT		42	814366	CLAMP BOTTOM	1
19	814346	TWIN TUBE CUSHION 0.50”	1	43	814367	CLAMP TOP	1
20	808727	TWIN NARROW TOP PLATE	1	44	809619	TOP PLATE	1
	814381	*(weld on mount)*	AR	45	814368	5/16”-18 x 2” BOLT	1
21	809493	STUD 5/16”-18 x 2-1/4”	6	46	814390	REAR TUBE *(left)*	1
22	808662	NYLON INSERT NUT 5/16”-18	7	47	814391	REAR TUBE *(right)*	1
23	808730	TWIN CUSHION 0.88”	1	48	814321	TUBE CUSHION 0.63”	4
24	808729	TWIN WIDE TOP PLATE	1	49	814322	CUSHION TOP PLATE	2
25	814382	5/16”-18 x 2-1/4” BOLT	2	50	814375	HOSE GUIDE	1


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VALVE
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Boom Extend Cylinder Group - Three-Section High Boom

Ref. No.	Part No.	Description	Qty. Req.
01	808597	5/8" LOCK WASHER	10
02	814392	5/8"-11 x 1-1/2" BOLT	10
03	813664	ADAP., -12ORM -12JICM 90º	2
04	808631	3/16" x 4" COTTER PIN	2
05	808888	EXTEND CYLINDER PIN	1
06	808429	THRUST WASHER	2
07	814195	EXT CYL MOUNT WELDMENT	1
08	814194	3/4-10 x 2-1/2" BOLT	8
09	808626	3/4"-10 NYLON INSERT NUT	8
10	808904	TRUNNION SHIM	1
11	814393	EXTEND CYLINDER TUBE *(left)*	1
12	814394	ADAP., -12JICM BLKHD 90º	4
13[a]	814395	BOOM EXTEND TUBE *(short)*	1
	814396	ADAP., PORT RESTRICTOR	1
	814397	RESTRICTOR, WORK PORT	1
14	814326	ADAP., -12ORM -12JICM STR.	2
15	814398	HOSE, -12 A12/DS12 42"	2
16	814399	TRUNNION MOUNT *(left)* *(Includes item 23)*	1
17		EXTEND CYLINDER	1
	814400	*40' High Boom*	
	814401	*44" High Boom*	
18	808693	SLIDE PAD	1
19	813849	3/8" LOCK WASHER	2
20	813677	3/8-16 x 3/4" BOLT	2
21	814402	EXTEND CYLINDER TUBE *(right)*	1
22	814403	TRUNNION MOUNT *(right)* *(Includes item 23)*	1
23	808475	BUSHING 2" I.D. x 1"	2
24	814404	BOOM EXTEND TUBE *(long)*	1

a *This side of the valve also uses a port restrictor adapter (814396) and port restrictor (814397), not shown.*



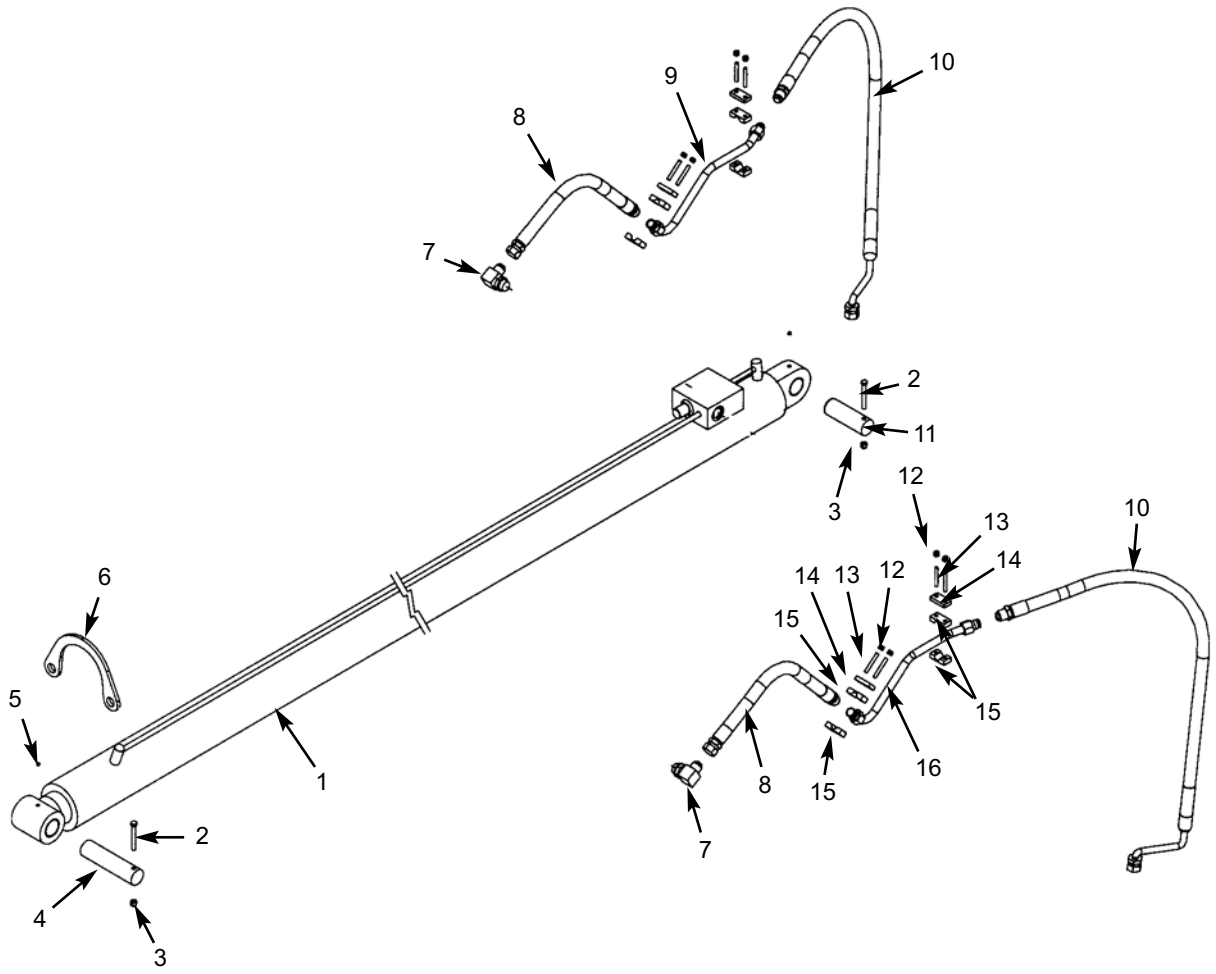
Refer to previous page for a listing of components and hoses attached to main valve.

FRONT

Boom Extend Cylinder Group - Four-Section High Boom

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814405	EXTEND CYLINDER	1	07	814212	ISOLATOR	1
02	814406	ROD PIN	1	08	808424	GREASE ZERK STR. 1/4”-18	2
04	813711	3/8”-16 x 3” BOLT	2	09	813664	ADAP., -12ORM -12JIC 90º	2
03	808663	3/8”-16 NYLON INSERT NUT	2	10	814407	HOSE ASSEMBLY -12 x 36”	2
05	814213	1/2”-13 x 1” BOLT	1	11	814394	ADAP., -12JICM BULKHEAD 90º	2
06	813805	1/2” LOCK WASHER	1	12	814408	BASE END PIN	1

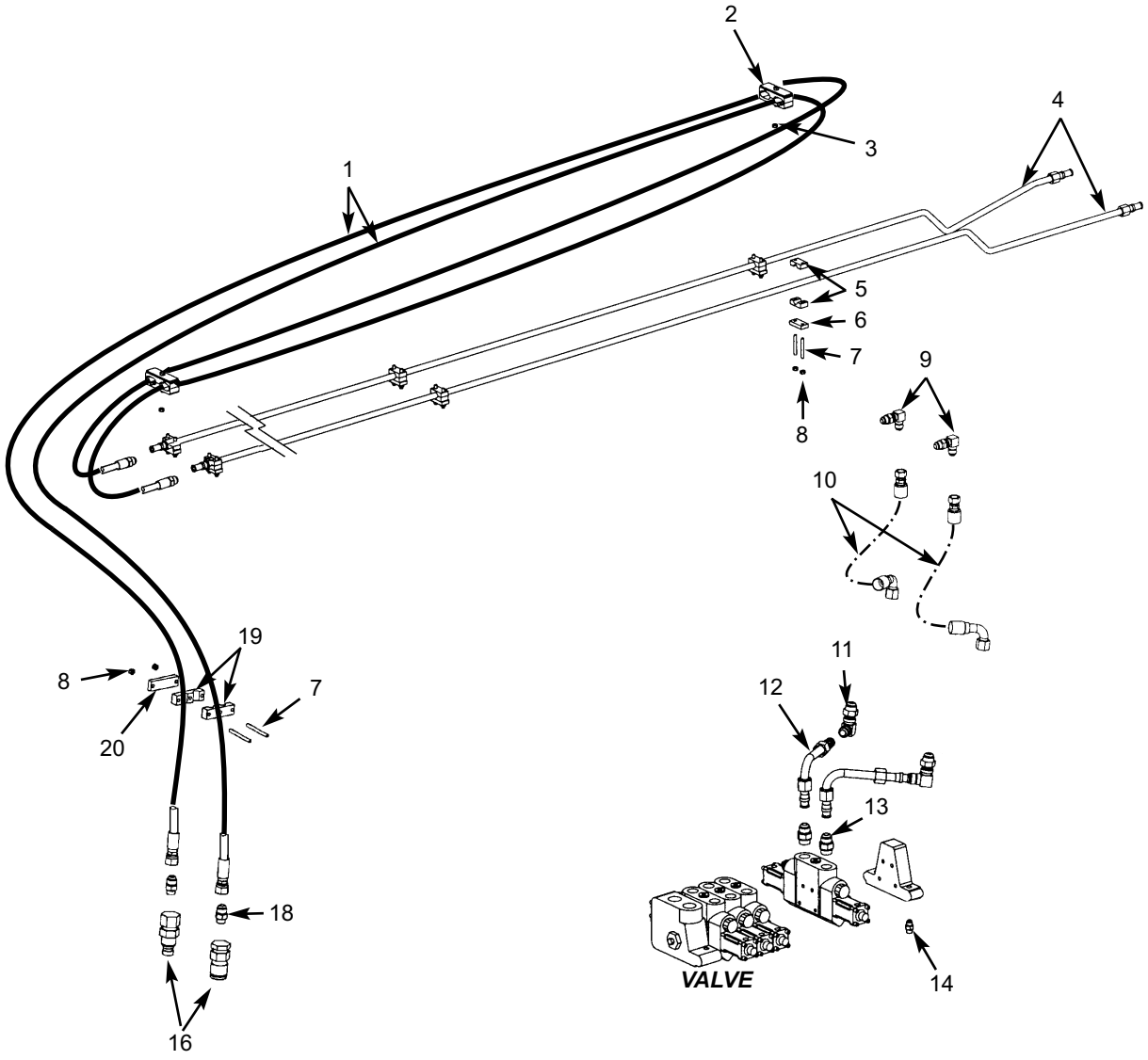
Boom Extend Cylinder Group - Four-Section Low Boom





Boom Extend Cylinder Group - Four-Section Low Boom

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814409	EXTEND CYLINDER	1	09	814411	REAR TUBE *(right)*	1
02	813711	3/8”-16 x 3” BOLT	2	10	814412	HOSE ASSEMBLY -12 x 53”	2
03	808663	3/8”-16 NYLON INSERT NUT	2	11	814413	BASE END PIN	1
04	814406	ROD PIN	1	12	808662	5/16”-18 NYLON INSERT NUT	8
05	808424	GREASE ZERK STR. 1/4”	2	13	809493	5/16”-18 x 2-1/4” STUD	8
06	814272	RETAINER	1	14	814322	SINGLE CUSH. TOP PLATE	4
07	813664	ADAP., -12ORM -12JIC 90º	2	15	814414	SINGLE TUBE CUSHION 0.75”	8
08	814410	HOSE ASSEMBLY -12 x 20”	2	16	814415	REAR TUBE *(left)*	1

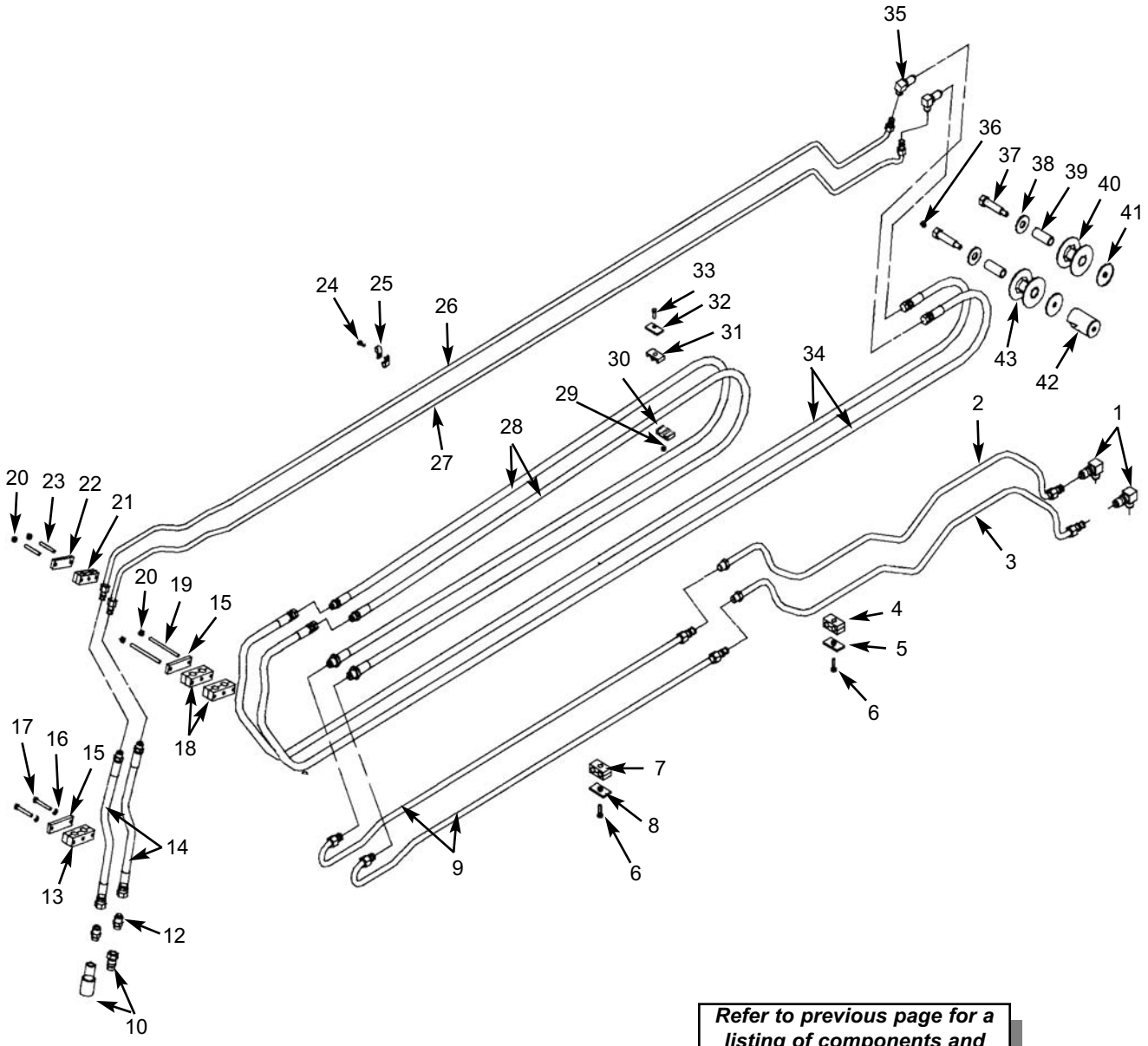


Refer to Pilot Manifold pages for more information

FRONT

Boom Auxiliary Hydraulics Group - Three-Section High Boom

Ref. No.	Part No.	Description	Qty. Req.
01		HOSE, -8 H10/A10	2
	814416	*Used with 40' High Boom*	
	808887	*Used with 44" High Boom*	
	808582	HOSE SLEEVE	1
02	808949	HOSE CLAMP ASSEMBLY	2
03	808555	5/16"-18 FLARE NUT	2
04	814417	AUXILIARY TUBE *(bottom)*	2
05	814321	TUBE CUSHION, SINGLE 5/8"	12
06	814322	TUBE CUSHION TOP PLATE	6
07	809493	5/16"-18 x 2-1/4" STUD	16
08	808662	5/16"-18 NYLON INSERT NUT	16
09	814323	ADAP., -10JICM BLKHD 90º	2
10	814324	HOSE, -12 A10/DS12 42"	2
11	814394	ADAP., -12JICM BLKHD 90º	2
12	814418	TUBE, AUX. SECTION	2
13	814326	ADAP., -12ORM -12JICM STR	2
14	813596	ADAP., -6ORM -6JICM	2
16	808796	COUPLER SET	1
18	814419	ADAP., -8ORM -10JICM STR	2
19	808730	TUBE CUSHION, DBL 3/4" DIA	4
20	808729	TOP PLATE -TWIN WIDE	1

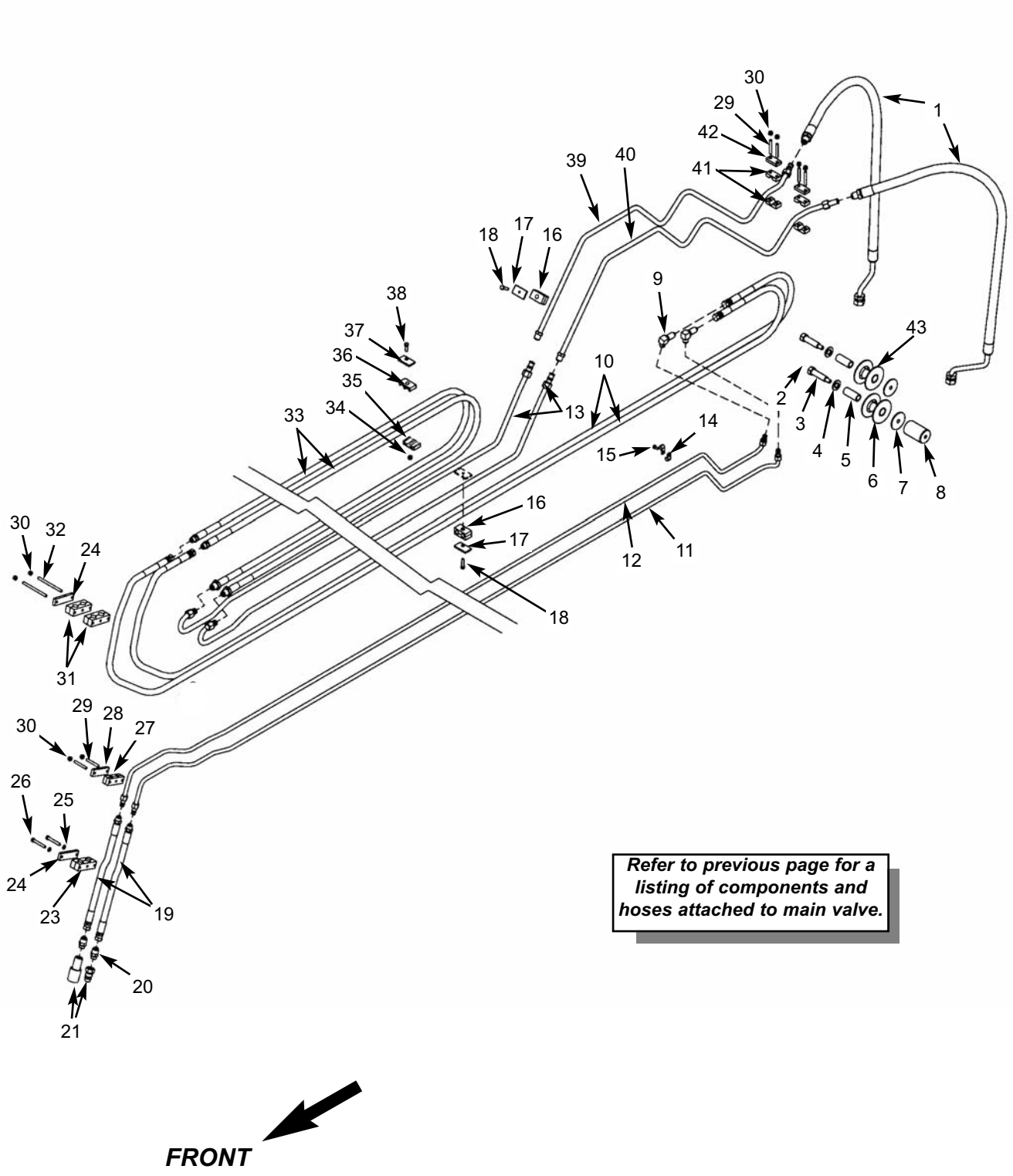


Refer to previous page for a listing of components and hoses attached to main valve.

FRONT

Boom Auxiliary Hydraulics Group - Four-Section High Boom

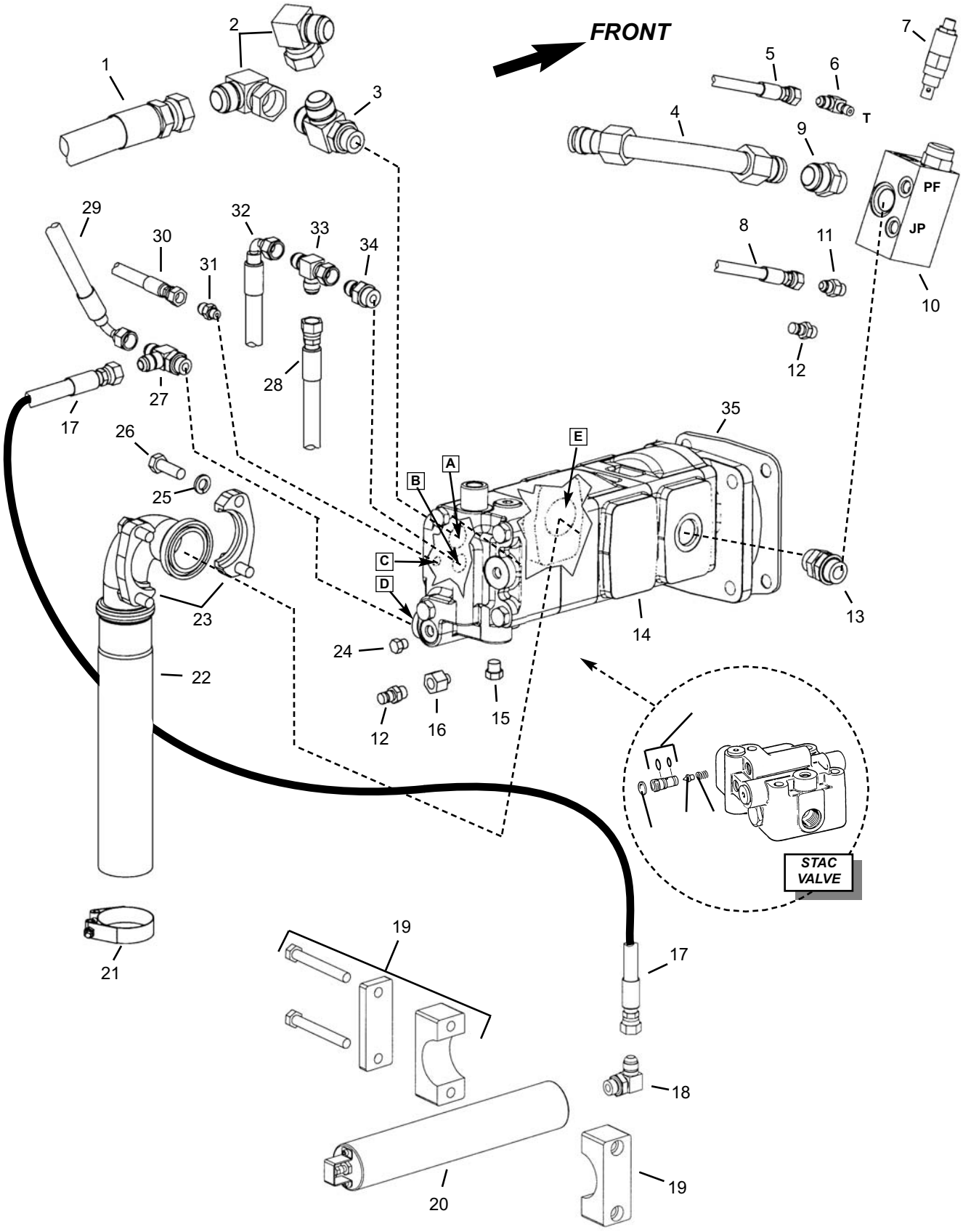
Ref. No.	Part No.	Description	Qty. Req.
01	814323	ADAP-10JICM BLKHD 90º	2
02	814380	REAR AUXILIARY HYD. TUBE	1
03	814388	REAR AUXILIARY HYD. TUBE	1
04	808880	DOUBLE TUBE CLAMP	1
05	808881	CLAMP TOP PLATE	1
06	814344	5/16”-18 x 1-1/4” BOLT	2
07	808880	DOUBLE TUBE CLAMP	1
08	808881	CLAMP TOP PLATE	1
09	814365	OUTER FRONT AUX. TUBE	2
10	808796	COUPLER SET	1
12	814419	ADAP., -8ORM -10JICM STR	2
13	808730	TWIN HOSE CUSHION 0.88”	AR
14	814347	HOSE ASSEMBLY -8 x 20”	2
15	808729	TWIN WIDE TOP PLATE	2
16	808497	LOCKWASHER 5/16”	2
17	814382	5/16”-18 x 2-1/4” BOLT	2
18	814361	TWIN HOSE CUSHION 0.69”	2
19	814350	5/16”-18 x 4-1/2” STUD	2
20	808662	5/16” NYLON INSERT NUT	4
21	814346	TWIN TUBE CUSHION 0.50”	1
22	808727	NARROW TWIN TOP PLATE	1
23	809493	5/16”-18” x 2-1/4” STUD	2
24	813386	1/4”-20” x 5/8” BOLT	5
25	814345	VINYL CLAMP	10
26	814420	INNER TUBE	1
27	814421	INNER TUBE	1
28	814363	HOSE ASSEMBLY -8 x 290”	2
	814364	HOSE SLEEVE	1
29	808555	NUT	1
30	814366	CLAMP BOTTOM	1
31	814367	CLAMP TOP	1
32	809619	TOP PLATE	1
33	814368	5/16”-18 x 2” BOLT	1
34	814422	HOSE ASSEMBLY -8 x 248”	1
35	814371	ADAP., -8JICM BLKHD 90º	2
36	808423	GREASE ZERK 90º 1/4-28	2
37	814372	HOSE RETAINER BOLT	2
38	814373	WASHER 3/4”	2
39	814374	HOSE RETAINER SPACER	2
40	814375	HOSE GUIDE	1
41	814376	SHEAVE PIN WASHER	2
42	814234	PIN	1
43	814377	HOSE GUIDE	1



Refer to previous page for a listing of components and hoses attached to main valve.

Boom Auxiliary Hydraulics Group - Four-Section Low Boom

Ref. No.	Part No.	Description	Qty. Req.
01	814378	HOSE ASSEMBLY -12 x 53”	2
02	808423	GREASE ZERK 90º 1/4”-28	2
03	814372	HOSE RETAINER BOLT	2
04	814373	PLAIN WASHER 0.75”	2
05	814374	HOSE RETAINER SPACER	2
06	814377	HOSE GUIDE	1
07	814376	SHEAVE PIN WASHER	2
08	814234	REAR SHEAVE PIN	1
09	814323	ADAP., -10JICM BLKHD 90º	2
10	814422	HOSE ASSEMBLY -8 x 248”	1
11	814421	AUX. INNER BOTTOM TUBE	1
12	814420	AUX. INNER TOP TUBE	1
13	814379	FORWARD BOOM TUBE	2
14	814345	VINYL CLAMP	10
15	813386	1/4”-20 x 5/8”	5
16L	808880	DBL. TUBE CLAMP 0.63”	4
17	808881	TWIN TUBE TOP PLATE	4
18	814344	5/16”-18 x 1-1/4” BOLT	1
19	814424	HOSE, -8 x 15”	2
20	814419	ADAP., -8ORM -10JICM STR	2
21L	808796	COUPLER SET	1
23L	808730	TWIN CUSHION 0.88”	AR
24L	808729	TWIN WIDE TOP PLATE	1
25	814382	5/16”-18 x 2-1/4” BOLT	2
266	808497	LOCK WASHER 5/16”	2
27	814346	TWIN TUBE CUSHION 0.50”	1
28	814381	TWIN CUSHION TOP PLATE	1
29	809493	STUD 5/16”-18 x 2-1/4”	6
30L	808662	NYLON INSERT NUT 5/16”-18	7
31	814361	TWIN HOSE CUSHION	2
32	814350	STUD 5/16”-18 x 4-1/2”	2
33	814389	HOSE, -8 x 268”	2
	814364	HOSE SLEEVE	1
34	808555	NUT	1
35	814366	CLAMP BOTTOM	1
36	814367	CLAMP TOP	1
37L	809619	TOP PLATE	1
38	814368	5/16”-18 x 2” BOLT	1
39	814425	REAR RIGHT TUBE	1
40	814426	REAR LEFT TUBE	1
41	814321	SGL. TUBE CUSHION 0.63”	4
42	814322	SGL. CUSHION TOP PLATE	2
43	814375	HOSE GUIDE	1


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STAC VALVE

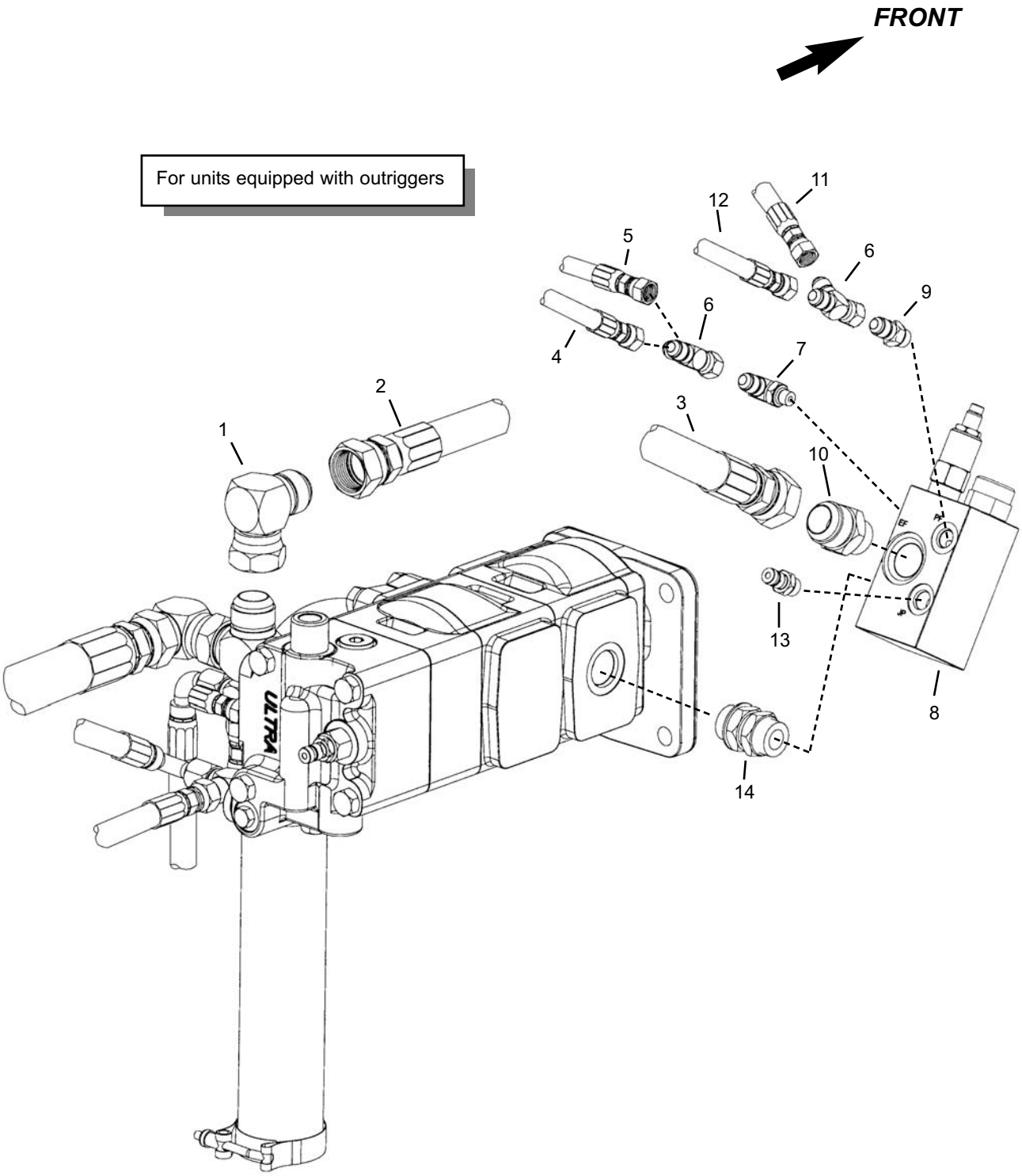
Ref. No.	Part No.	Description	Qty. Req.
01	814428	HOSE, -16 A16/A16 60”	1
02	814429	ADAP., -16JICFS -16JICM 90º	2
03	814430	ADAP., -12ORM -16JICM R-TEE	1
04[a]	808864	TUBE, PUMP OUT	1
05	813679	HOSE, -4 A6/A6 40”	1
06	814431	ADAP., -4ORM -6JICM 90º	1
07	809157	RELIEF VALVE 350 *(psi)*	1
08	814432	HOSE, -4 A6/A6 28”	1
09	814433	ADAP., -12ORM -16JICM STR	1
10	814434	FLOW DIVIDER	1
11	813596	ADAP., -6ORM -6JICM STR	1
12	809174	TEST PORT	2
13	814435	ADAP., -12 ORM -12ORM STR	1
14	814436	HYDRAULIC PUMP *(w/STAC valve)*	1
15	814439	PLUG -6ORM	1
16	814440	ADAP., -4ORM -6ORF STR	1
17	814441	HOSE, -6 A8/A8 17”	1
18	814308	ADAP., -8ORM -8JICM 90º	1
19	814442	CLAMP KIT 2.37” ID	1
20	814443	ACCUMULATOR, PISTON TYPE *(315 psi)*	1
21	813673	2-1/2” T-BOLT BAND CLAMP	1
22	814444	HOSE, -32 MS32/NONE 16”	1
23	814445	SPLIT FLANGE KIT -32 *(Includes items 25, 26 and o-rings)*	1
24	814300	PLUG -4ORM	1
25	813805	1/2” LOCK WASHER	4
26	814446	1/2” x 1-1/2” GR8 BOLT	4
27	814447	ADAP., -8ORM -8JICM R-TEE	1
28	814448	HOSE, -6 A6/A8 46”	1
29	814449	HOSE, -6 A6/DS8 20”	1
30[b]	808882	HOSE, -4, A6/DS6 17”	1
31	814450	ADAP., -4ORM -6JICM STR	1
32	813553	HOSE, -6 A8/DS8 88”	1
33	814451	ADAP,. -8JICFS -8JICM R-TEE	1
34	814452	ADAP., -10ORM -8JICM STR	1
35	814453	PUMP GASKET	1
36	814454	CORE PLUG POPET ASY	1
37	814455	CORE PLUG CAP	1
38	814456	POPET, SPRING	1
39	814457	POPET	1

a *Not used when equipped with outriggers.*

b *Hose has a 90º degree end that connects directly to item #31.*

Hose Locator

Ref No.	From Port	To Port
01	HYDRAULIC PUMP “A”	MAIN VALVE “IN”
05	FLOW DIVIDER “T”	HYDRAULIC TANK RETURN MANIFOLD
08	FLOW DIVIDER “PF”	SAHR VALVE “P1”
17	HYDRAULIC PUMP “D”	ACCUMULATOR
22	HYDRAULIC PUMP “E”	HYDRAULIC TANK “SUCTION“
28	HYDRAULIC PUMP “B”	LEVEL VALVE “P”
29	HYDRAULIC PUMP “D”	SAHR VALVE “AI”
30	HYDRAULIC PUMP “C”	LEVEL VALVE “LSP”
32	HYDRAULIC PUMP “B”	STEER MOTOR “P” (IN CAB)

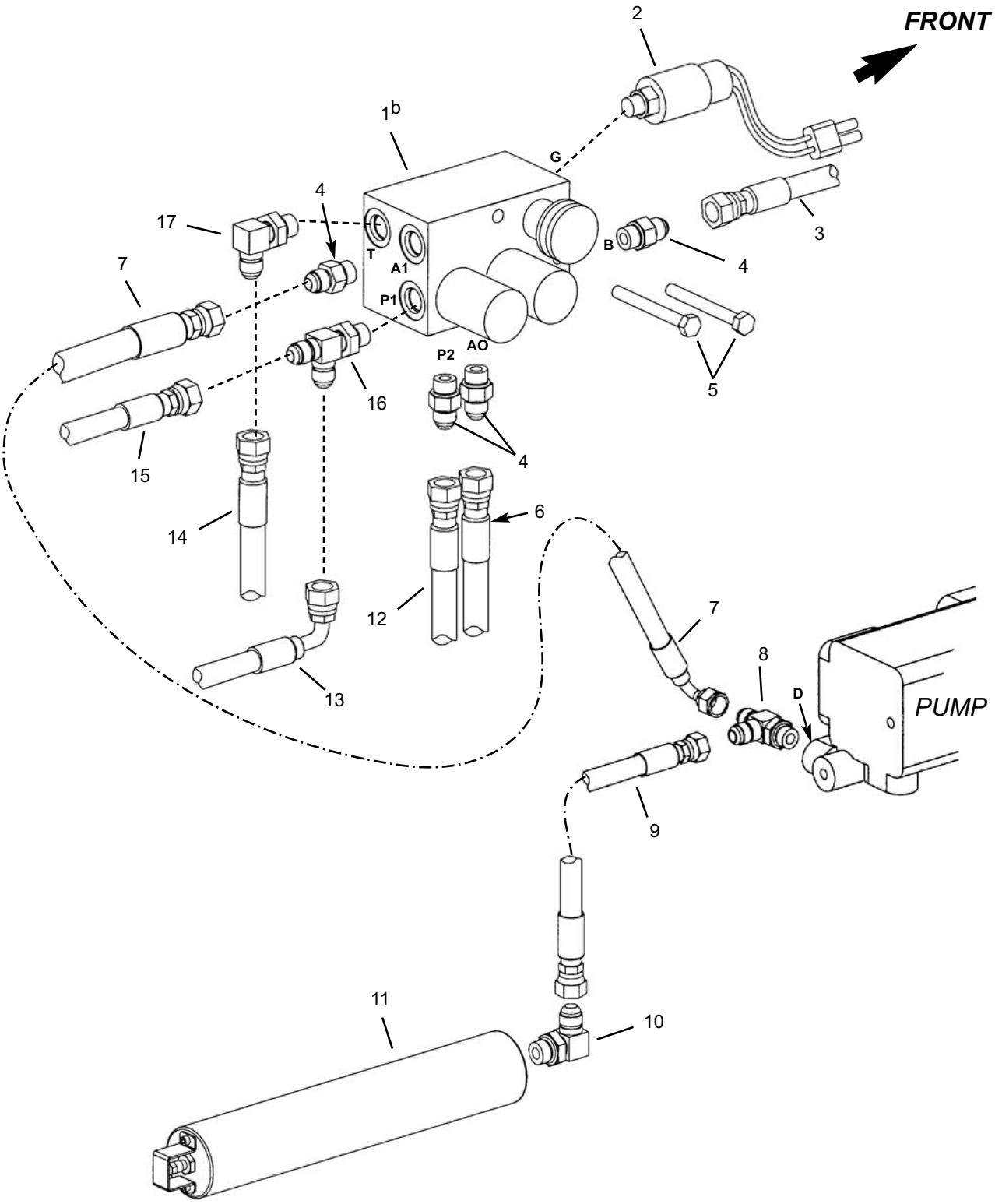

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For units equipped with outriggers
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ULTRA

Hydraulic Pump and Hoses- Outrigger

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814429	ADAP., -16JICFS -16JICM 90º	2	08	814434	FLOW DIVIDER	1
02	814458	HOSE, -12 A12/A16 61”	1	09	813596	ADAP., -6ORM -6JICM STR	1
03	814459	HOSE, -12 A12/A16 76”	1	10	814433	ADAP., -12ORM -16JICM STR	1
04	813679	HOSE, -4 A6/A6 40”	1	11	814460	HOSE, -4 A6/DS6 70”	1
05	814460	HOSE, -4 A6/DS6 70”	1	12	814432	HOSE, -4 A6/A6 28”	1
06	814461	ADAP., -6 SWIVEL TEE	2	13	809174	TEST PORT	2
07	814431	ADAP., -4ORM -6JICM 90º	1	14	814435	ADAP., -12ORM -12ORM STR	1

Hose Locator

Ref No.	From Port	To Port
02	HYDRAULIC PUMP	V20 VALVE “PB”
03	FLOW DIVIDER	V20 VALVE “IN”
04	FLOW DIVIDER “T”	HYDRAULIC TANK RETURN MANIFOLD
05	FLOW DIVIDER “T” SWIVEL	OUTRIGGER PILOT MANIFOLD “T”
11	FLOW DIVIDER “PF” SWIVEL	OUTRIGGER PILOT MANIFOLD “P”
12	FLOW DIVIDER “PF”	SAHR VALVE “P1”


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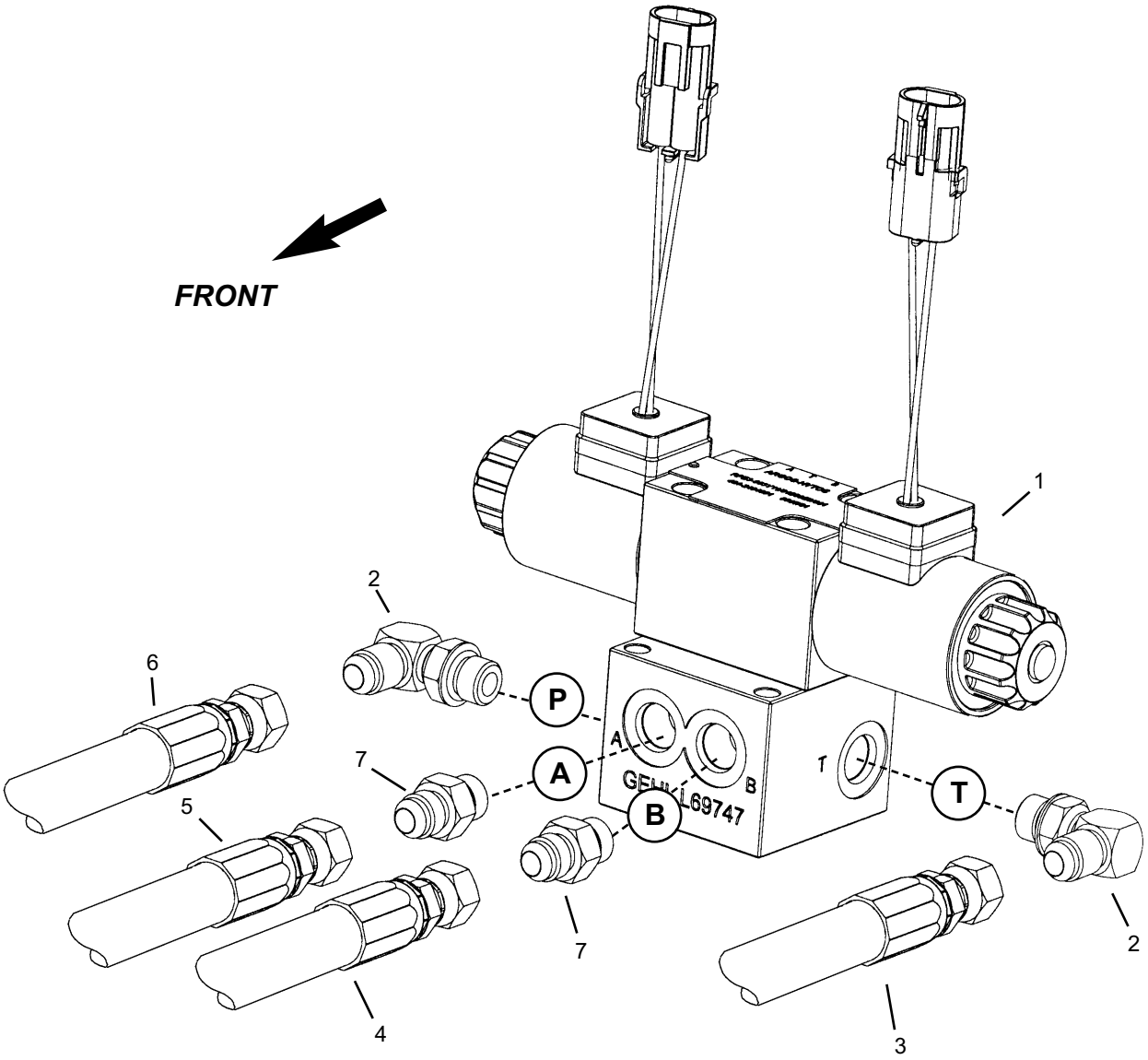
Ref. No.	Part No.	Description	Qty. Req.
01	814462	SAHR / ACCUM CHARGE VALVE (*includes built-in PWP valve)*	1
02	814463	BRAKE PRESSURE SWITCH	1
03	814464	HOSE, -6 A6/DS6 50”	1
04	813596	ADAP., -6ORM -6JICM STR	4
05	814465	5/16-18X2-3/4” BOLT	2
06	814466	HOSE, -4 A6/DS6 100”	1
07	814449	HOSE, -6 A6/DS8 20”	1
08	814447	ADAP., -8ORM -8JICM R-TEE	1
09	814441	HOSE, -6 A8/A8 17”	1
10	814308	ADAP., -8ORM -8JICM 90º	1
11	814443	ACCUMULATOR, PISTON TYPE *(315 psi -- precharged)*	1
12	809616	HOSE, -4 A6/A6 46”	1
13[a]	814467	HOSE, -4 A6/DS6 98”	1
14	814468	HOSE, -6 A6/A6 25”	1
15	814449	HOSE, -6 A6/DS8 20”	1
16[a]	814469	ADAP., -6ORM -6JICM R-TEE	1
16[b]	813596	ADAP., -6ORM -6JICM STR	1
17	813597	ADAP., -6ORM -6JICM 90º	1

a *Used with 4-button joystick*
b *Used with 2-button joystick*

Hose Locator

Ref No.	From Port	To Port
03	SAHR “B”	“A” BRAKE PRESSURE INTENSIFIER
06	SAHR “AO”	BRAKE VALVE “P” (IN CAB)
07	SAHR “A1”	HYDRAULIC PUMP “BOTTOM TEE”
09	HYDRAULIC PUMP “D”	ACCUMULATOR
12	SAHR “P2”	JOYSTICK “P”
13*	SAHR “P1” (BOTTOM TEE)	[a] PILOT MANIFOLD “P”
14	SAHR “T”	HYDRAULIC TANK RETURN MANIFOLD
15	SAHR “P1”	FLOW DIVIDER “PF”

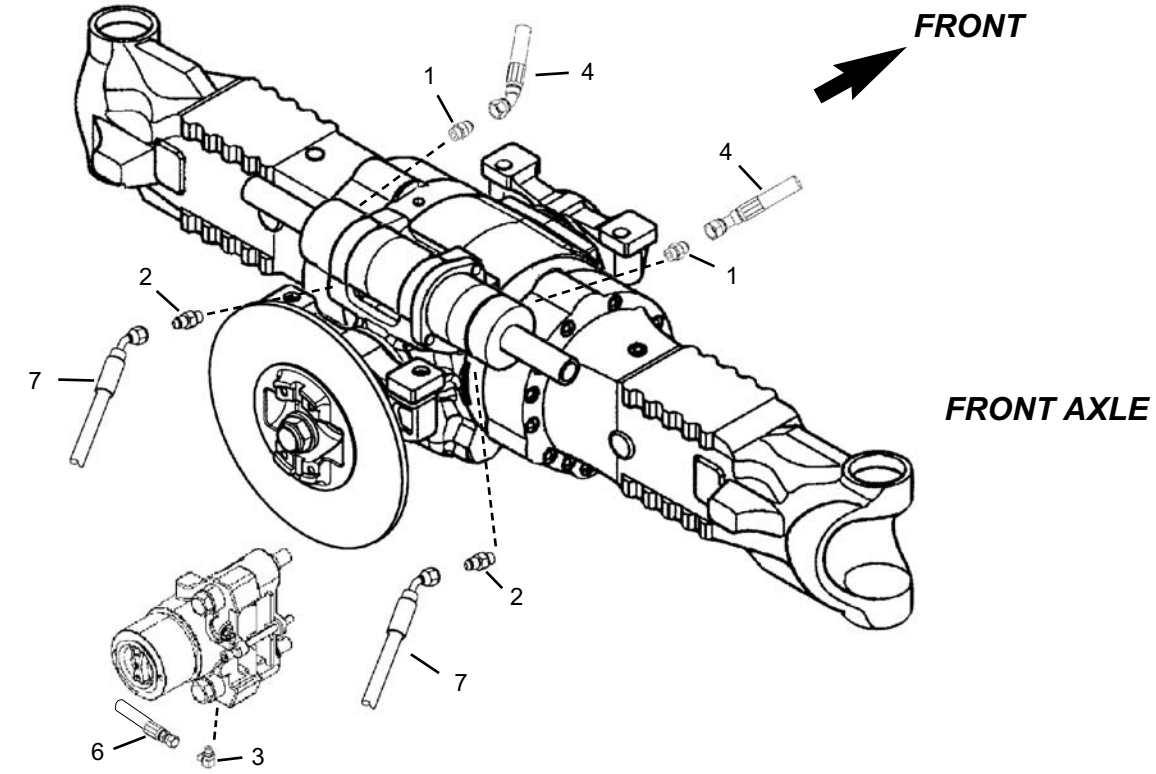
a *Use “P” port on upper pilot manifold when unit is equipped with auxiliary hydraulics*
* *Used with 4-button joystick*


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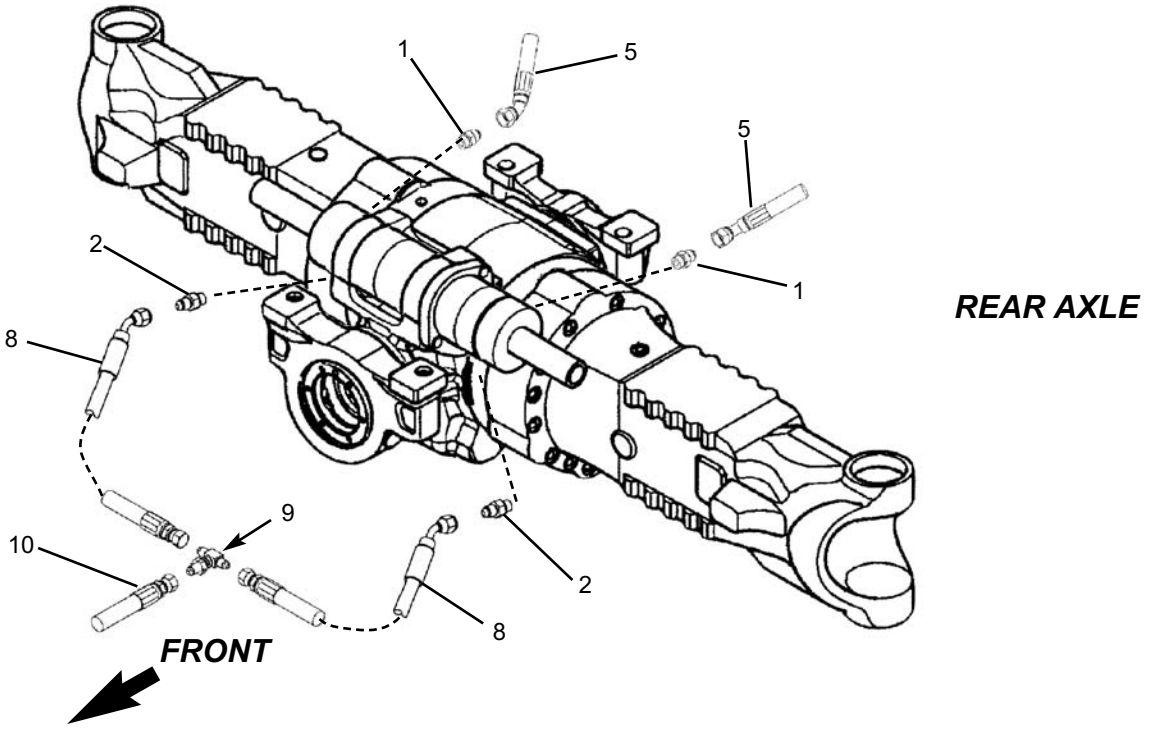
Ref. No.	Part No.	Description	Qty. Req.
01	808877	STEER SELECT VALVE	1
	814470	1/4”-20 x 3” BOLT	2
	808545	1/4”-20 NUT	2
02	813597	ADAP., -6ORM -6JICM 90º	2
03	814471	HOSE, -6 A6/A8 125”	1
04	814472	HOSE, -6 A6/NS6 40”	1
05	814472	HOSE, -6 A6/NS6 40”	1
06	814473	HOSE, -6 A8/A6 108”	1
07	813596	ADAP., -6ORM -6JICM STR	2

Hose Locator

Ref No.	From Port	To Port
03	STEER SELECT VALVE “T”	FRONT AXLE STEER CYLINDER (LEFT PORT)
04	STEER SELECT VALVE “B”	STEER CYLINDER (REAR AXLE-LEFT SIDE)
05	STEER SELECT VALVE “A”	STEER CYLINDER (REAR AXLE-RIGHT SIDE)
06	STEER SELECT VALVE “P”	STEER MOTOR “L” (IN CAB)



FRONT AXLE



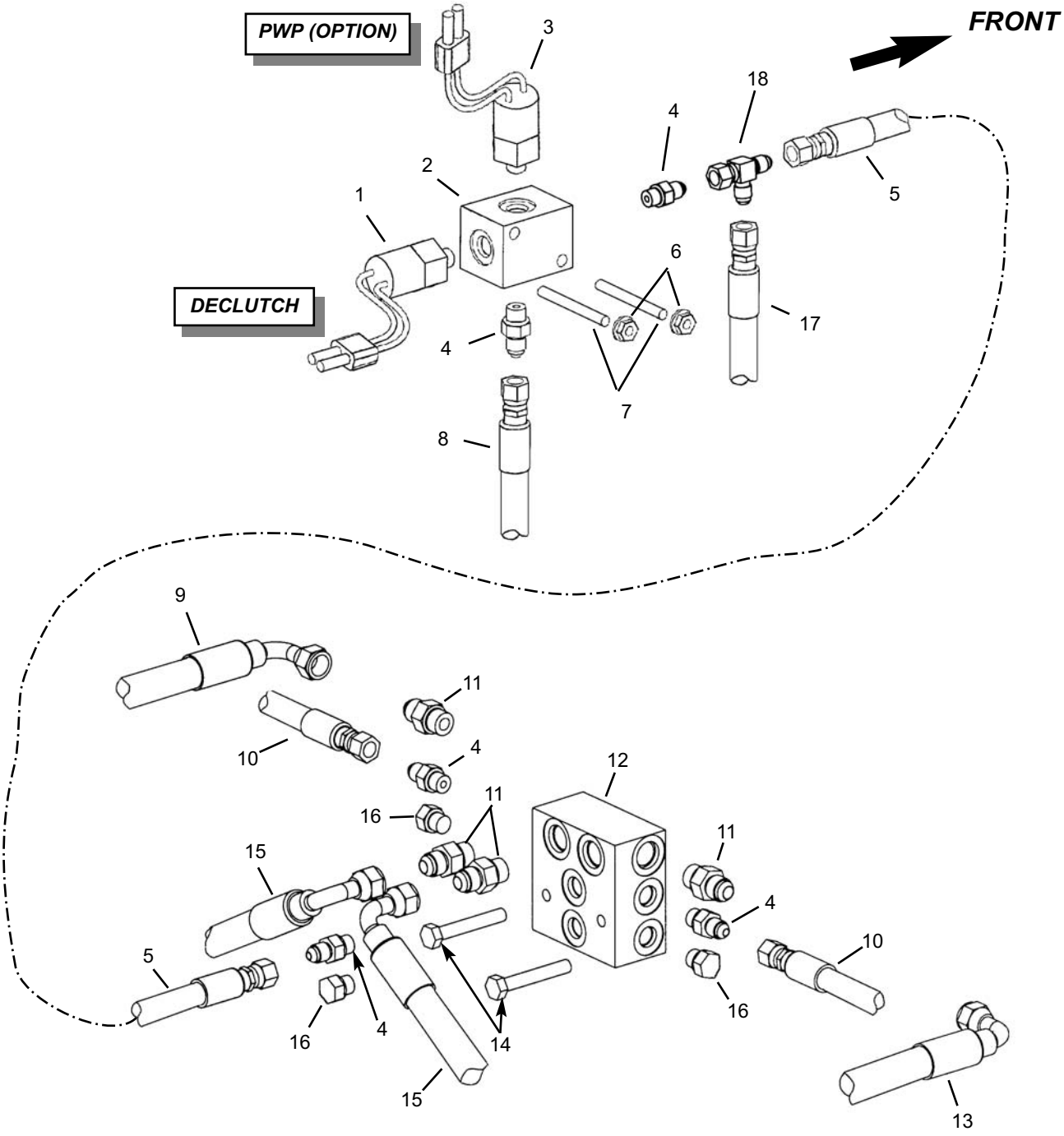
REAR AXLE

Ref. No.	Part No.	Description	Qty. Req.
01	813708	ADAP., -8ORM-8JICM STR	4
02	814474	ADAP., -6ORM -4JICM STR	4
03	814431	ADAP., -4ORM-6JICM 90º	1
04	814472	HOSE, -6 A6/NS8 40”	2
05	814472	HOSE, -6 A6/NS8 40”	2
06[a]	814475	HOSE, -6 A6/DS6 104”	1
07	814476	HOSE, -4 A4/NS4 108”	2
08	814476	HOSE, -4 A4/NS4 108”	2
09	814477	TEE, BULKHEAD -4JICM	1
10	814478	HOSE, -4 A4/A4 45”	1

a *Early units with the 26.48 axles used a smaller HOSE, -4 (1/4”). If this unit is equipped with the smaller hose, order replacement P/N 430177 Hose kit, which includes (1) hose, P/N #814475 and (2) adapters, P/N 814431 (item #3)*

Hose Locator

Ref No.	From Port	To Port
04	STEER CYLINDER FRONT AXLE BOTH SIDES	STEER/BRAKE MANIFOLD (TOP FRONT PORTS)
05	STEER CYLINDER REAR AXLE (LEFT SIDE)	STEER SELECT VALVE “B”
	STEER CYLINDER REAR AXLE (RIGHT SIDE)	STEER SELECT VALVE “A”
06	FRONT AXLE PARK BRAKE CALIPER	HYDRAULIC PRESSURE INTENSIFIER
07	FRONT AXLE BRAKE PORTS (BOTH SIDES)	STEER/BRAKE MANIFOLD (MIDDLE/SIDE PORTS)
08	REAR AXLE BRAKE PORTS (BOTH SIDES)	BULKHEAD TEE ABOVE REAR AXLE
10	BULKHEAD TEE ABOVE REAR AXLE	TEE ON THE BRAKE LINES MANIFOLD

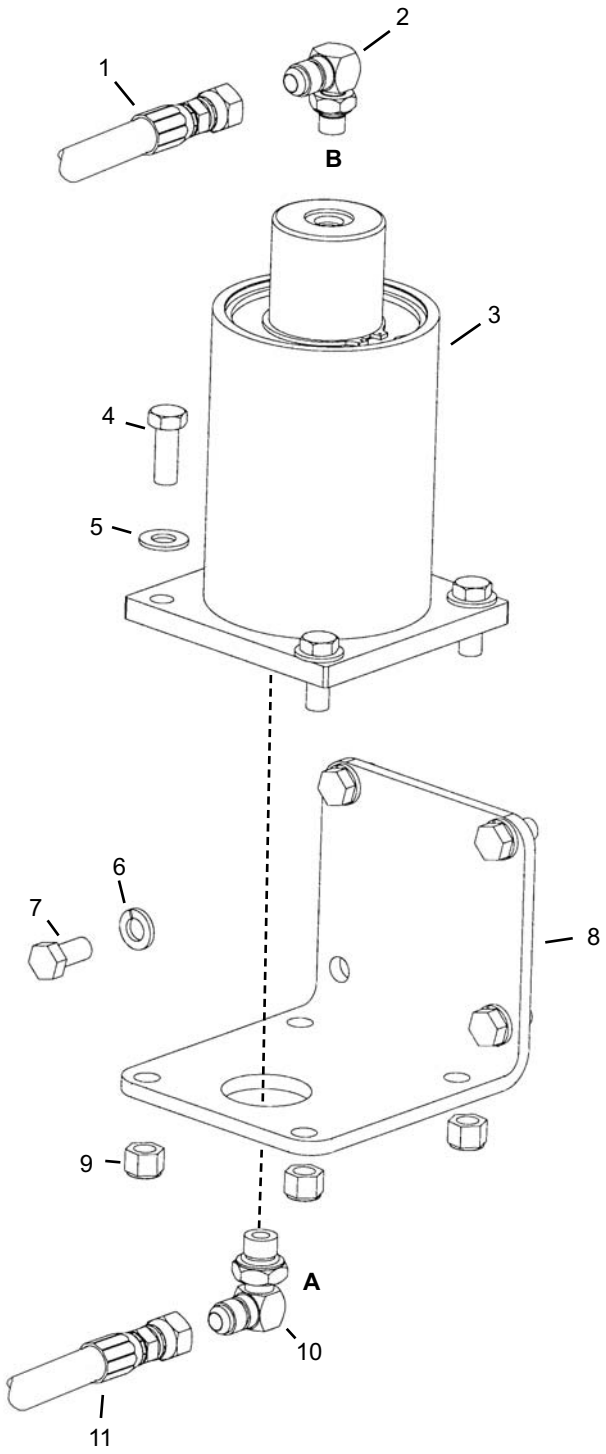

PWP (OPTION)
FRONT
DECLUTCH
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

Ref. No.	Part No.	Description	Qty. Req.
01	813619	PRESSURE SWITCH *(declutch)*	1
02	808905	BRAKE LINES MANIFOLD	1
03[a]	813619	PRESSURE SWITCH *(PWP)*	1
03[b]	814300	ADAP., -4ORM PLUG	1
04	814479	ADAP., -4ORM -4JICM STR	5
05	814480	HOSE, -4 A4/A4 72”	1
06	808545	1/4”-20 FLANGE NUT	2
07	814481	1/4”-20 x 2-1/4” STUD	2
08	813600	HOSE, -4 A6/A4 102”	1
09	814482	HOSE, -6 A6/DS6 100”	1
10	814476	HOSE, -4 A4/NS4 20”	2
11	813596	ADAP., -6ORM -6JICM STR	4
12	814483	STEER/BRAKE MANIFOLD	1
13	808885	HOSE, -6 A8/DS6 100”	1
14	813712	5/16-18 x 2” BOLT	2
15	814484	HOSE, -6 A8/DS6 20”	2
16	814300	PLUG, -4 ORM.	3
17	814478	HOSE, -4 A4/A4 45”	1
18	814300	ADAP., -4 SWIVEL TEE	1

a When unit is equipped with the PWP system.
b When unit is not equipped with the PWP system.

Hose Locator

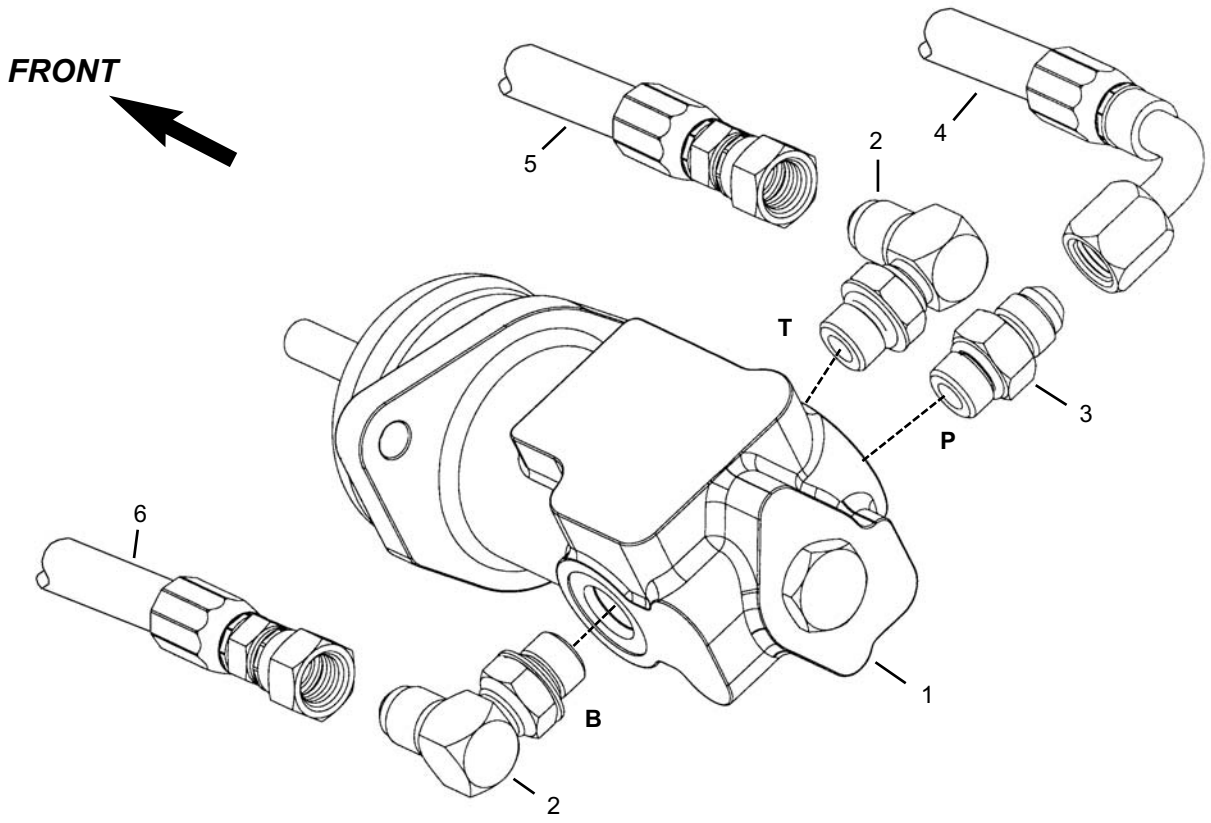
Ref No.	From Port	To Port
05	BRAKE LINES MANIFOLD (SIDE)	STEER/BRAKE MANIFOLD “CENTER FRONT”
08	BRAKE LINES MANIFOLD (LOWER)	BRAKE VALVE “B” (IN CAB)
09	STEER/BRAKE MANIFOLD (UPPER LEFT SIDE)	STEER SELECT VALVE “T”
10	STEER/BRAKE MANIFOLD (TOP/SIDE PORTS)	FRONT AXLE BRAKE TOP PORTS
13	STEER/BRAKE MANIFOLD (UPPER RIGHT SIDE)	STEER MOTOR “R” (IN CAB)
15	STEER/BRAKE MANIFOLD (UPPER FRONT)	STEER CYLINDER (FRONT AXLE BOTH SIDES)
17	BRAKE LINES MANIFOLD TEE	BULKHEAD TEE ABOVE REAR AXLE


1
2
B
3
4
5
6
7
8
9
A
10
11

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814475	HOSE, -6 A6/DS6 104”	1	07	813677	3/8” x 3/4” BOLT	4
02	814431	ADAP., -4ORM -6JICM 90º	1	08	814486	MOUNT BRACKET	1
03	814485	PARK BRAKE INTENSIFIER	1	09	813656	3/8” NYLON INSERT NUT	4
04	813574	3/8” x 1” BOLT	4	10	813597	ADAP., -6ORM -6JICM 90º	1
05	813657	3/8” FLAT WASHER	4	11	814464	HOSE, -6 A6/DS6 50”	1
06	813849	3/8” LOCK WASHER	4				

Hose Locator

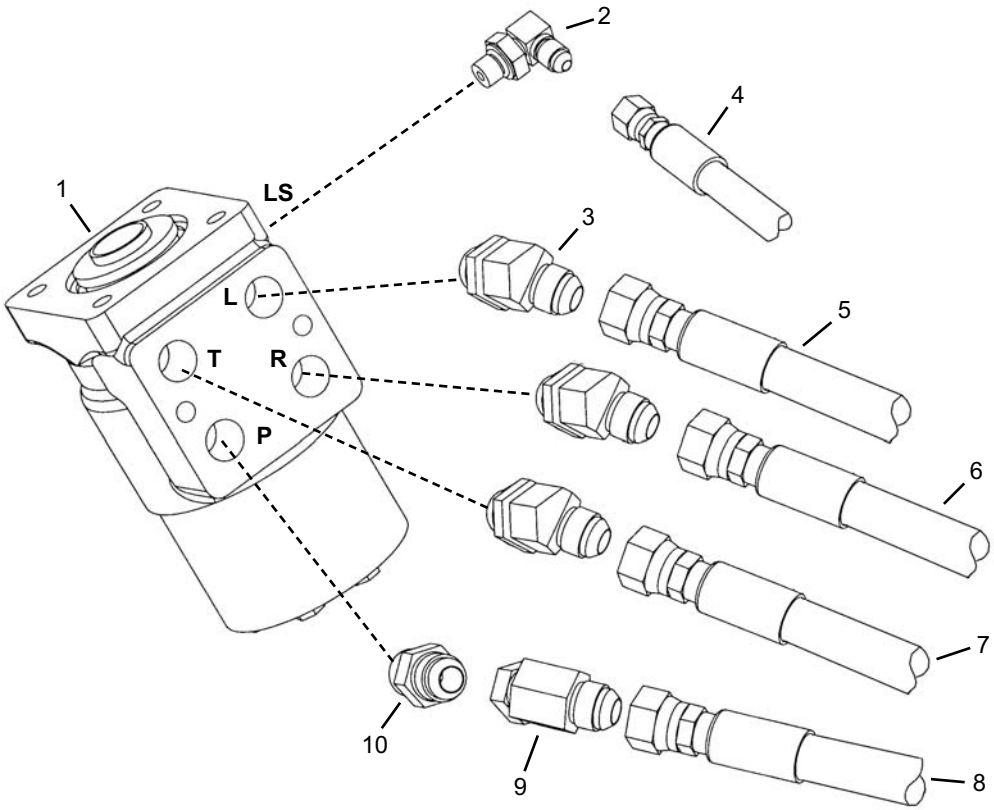
Ref No.	From Port	To Port
01	PARK BRAKE INTENSIFIER “B”	FRONT AXLE PARK BRAKE CALIPER
11	PARK BRAKE INTENSIFIER “A”	SAHR VALVE “B”



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	813599	BRAKE MODULATING VALVE	1	04	814466	HOSE, -4 A6/DS6 100”	1
02	813597	ADAP., -6ORM -6JICM 90º	2	05	808883	HOSE, -4 A6/A6 81”	1
03	813596	ADAP., -6ORM -6JICM STR	1	06	813600	HOSE, -4 A6/A4 102”	1

Hose Locator

Ref No.	From Port	To Port
04	BRAKE VALVE “P”	SAHR VALVE “AO”
05	BRAKE VALVE “T”	HYDRAULIC TANK RETURN MANIFOLD
06	BRAKE VALVE “B”	BRAKE MANIFOLD (BOTTOM PORT)

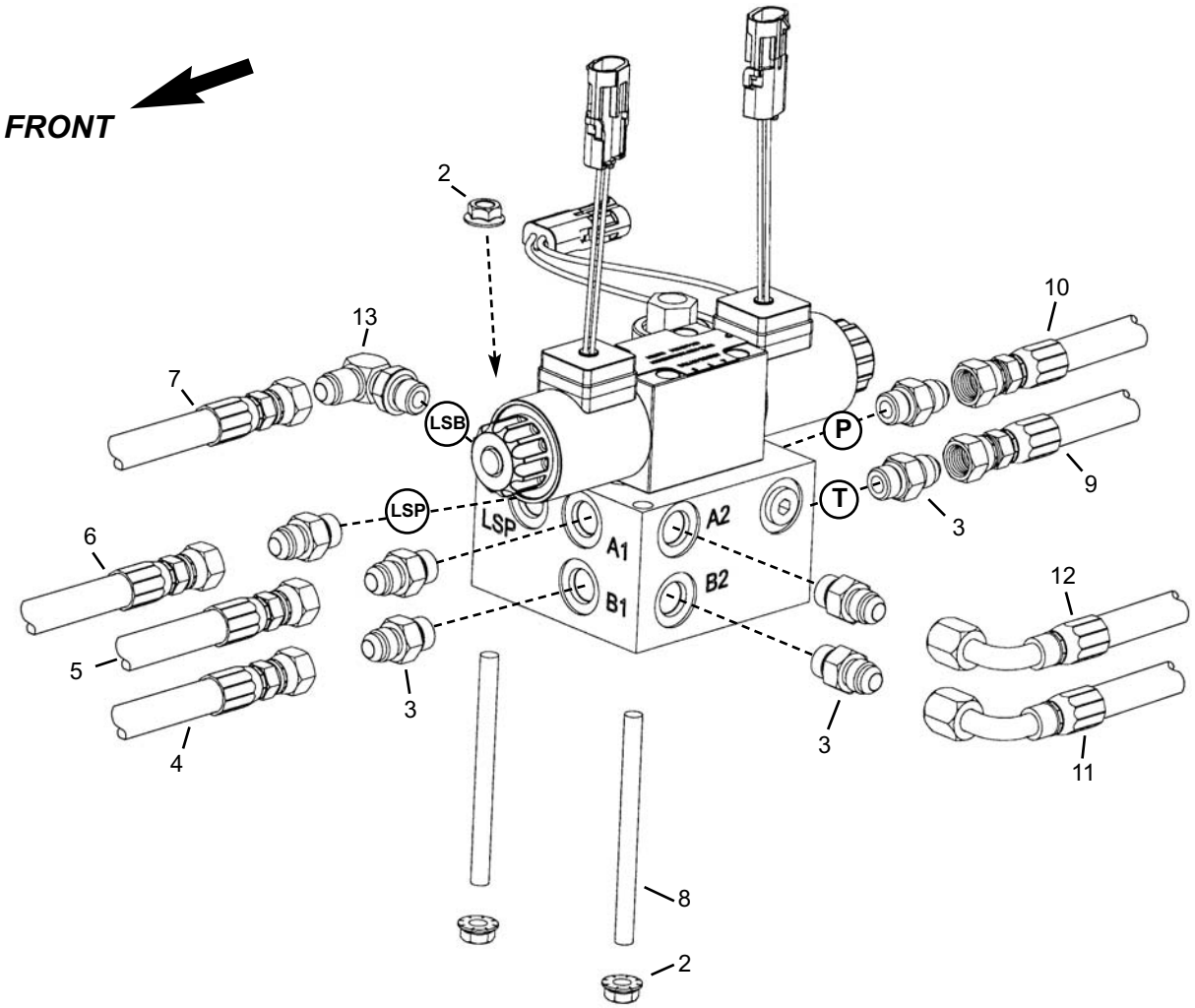


Ref. No.	Part No.	Description	Qty. Req.
01[a]	813555	STEER MOTOR ASY.	1
	808585	SEAL KIT	1
02	813550	ADAP., -4ORM -4JICM 90º	1
03	813551	ADAP., -80RM -8JICM 45 ELBOW	3
04	814487	HOSE, -4 A4/A6 100”	1
05	814473	HOSE, -6 A8/A6 108”	1
06	808885	HOSE, -6 A8/A6 100”	1
07	813552	HOSE, -6 A8/A6 60”	1
08	813553	HOSE, -6 A8/DS8 88”	1
09	813554	ADAP., -8JICFS -8JICM SWVL	1
10	808763	CHECK VALVE	1

a *Field replacement of parts other than seals is not recommended.*

HOSE LOCATOR

04	STEER MOTOR “LS” (IN CAB)	LEVEL VALVE “LSB”
05	STEER MOTOR “L” (IN CAB)	STEER SELECT VALVE “P”
06	STEER MOTOR “R” (IN CAB)	STEER/BRAKE MANIFOLD (TOP RIGHT SIDE)
07	STEER MOTOR “T” (IN CAB)	HYDRAULIC TANK RETURN MANIFOLD
08	STEER MOTOR “P” (IN CAB)	HYDRAULIC PUMP (Ref item #32 on Hyd. Pump)


FRONT
2
13
7
LSB
10
P
9
T
3
LSP
LSP
A1
A2
B1
B2
6
5
4
3
3
12
11
8
2

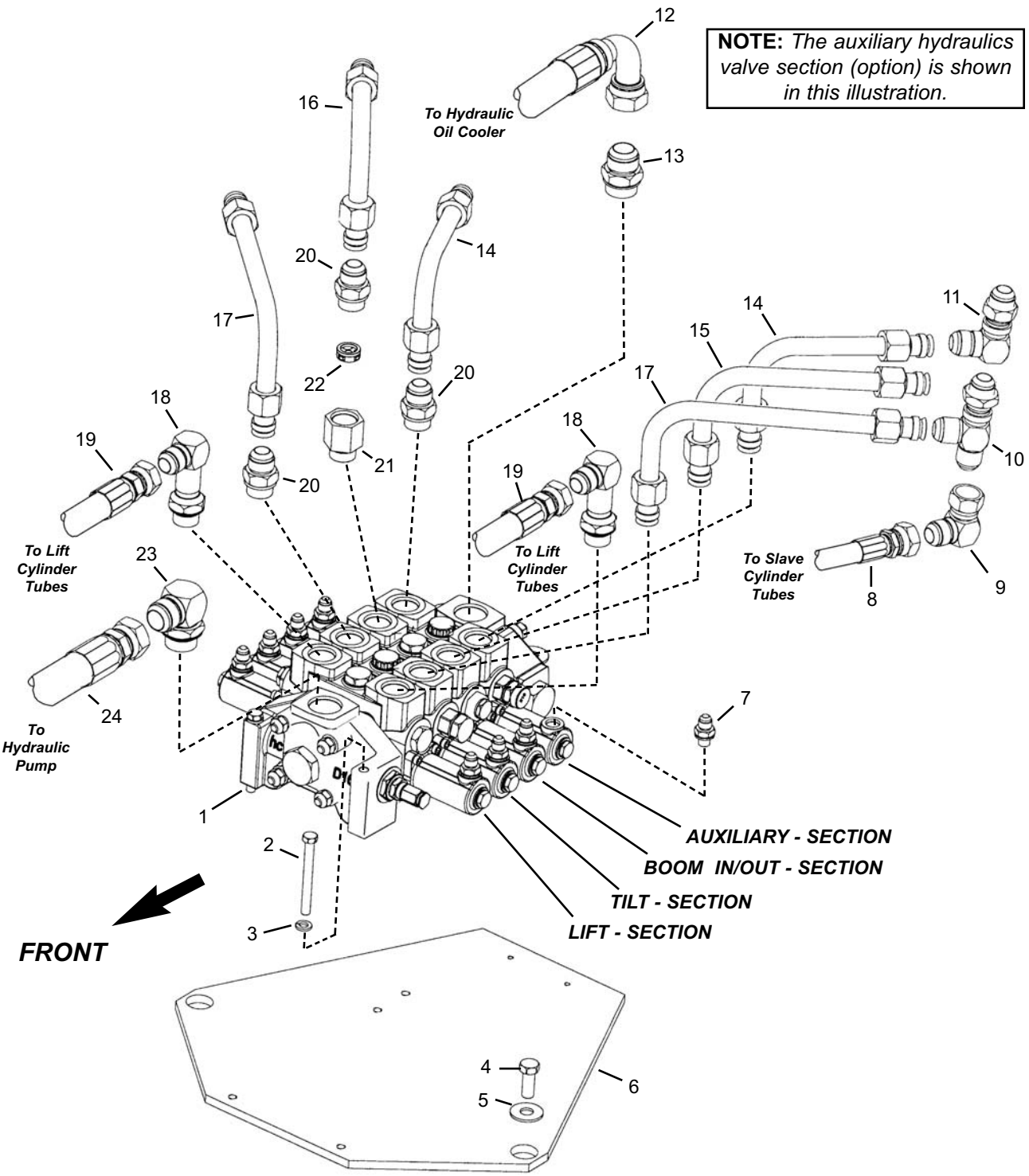
Frame Level Valve and Hoses

Ref. No.	Part No.	Description	Qty. Req.
01	814488	LEVEL VALVE *(complete)*	1
02	808555	5/16”-18 NUT	AR
03	813596	ADAP., -6ORM -6JICM STR	7
04	814489	HOSE, -4 A6/A6 126”	1
05	814489	HOSE, -4 A6/A6 126”	1
06	808882	HOSE, -4, A6/DS6 17”.	1
07	814487	HOSE, -4 A6/DS6 100”	1
08	814490	5/16”-18 x 4” STUD	2
09	813681	HOSE, -6 A6/A6 50”	1
10	814448	HOSE, -6 A6/A8 46”	1
11	814491	HOSE, -4 A6/DS6 65”	1
12	814491	HOSE, -4 A6/DS6 65”	1
13	813597	ADAP., -6ORM -6JICM 90º	1

NOTE: *Refer to Hydraulic Components section for a listing of parts for the level valve.*

Hose Locator

Ref No.	From Port	To Port
04	LEVEL VALVE “A1”	LEVEL CYLINDER (OUTSIDE FITTING)
05	LEVEL VALVE “B1”	LEVEL CYLINDER (CAB SIDE FITTING)
06	LEVEL VALVE “LSP”	HYDRAULIC PUMP “C” *(Refer to HYD. PUMP)*
07	LEVEL VALVE “LSB”	STEER MOTOR “LS” (IN CAB)
09	LEVEL VALVE “T”	HYDRAULIC TANK RETURN MANIFOLD
10	LEVEL VALVE “P”	HYDRAULIC PUMP “B” *(Refer to HYD. PUMP)*
11	LEVEL VALVE “B2”	STABILIZER CYLINDER MANIFOLD “M” (REAR)
12	LEVEL VALVE “A2”	STABILIZER CYLINDER MANIFOLD “L” (FRONT)

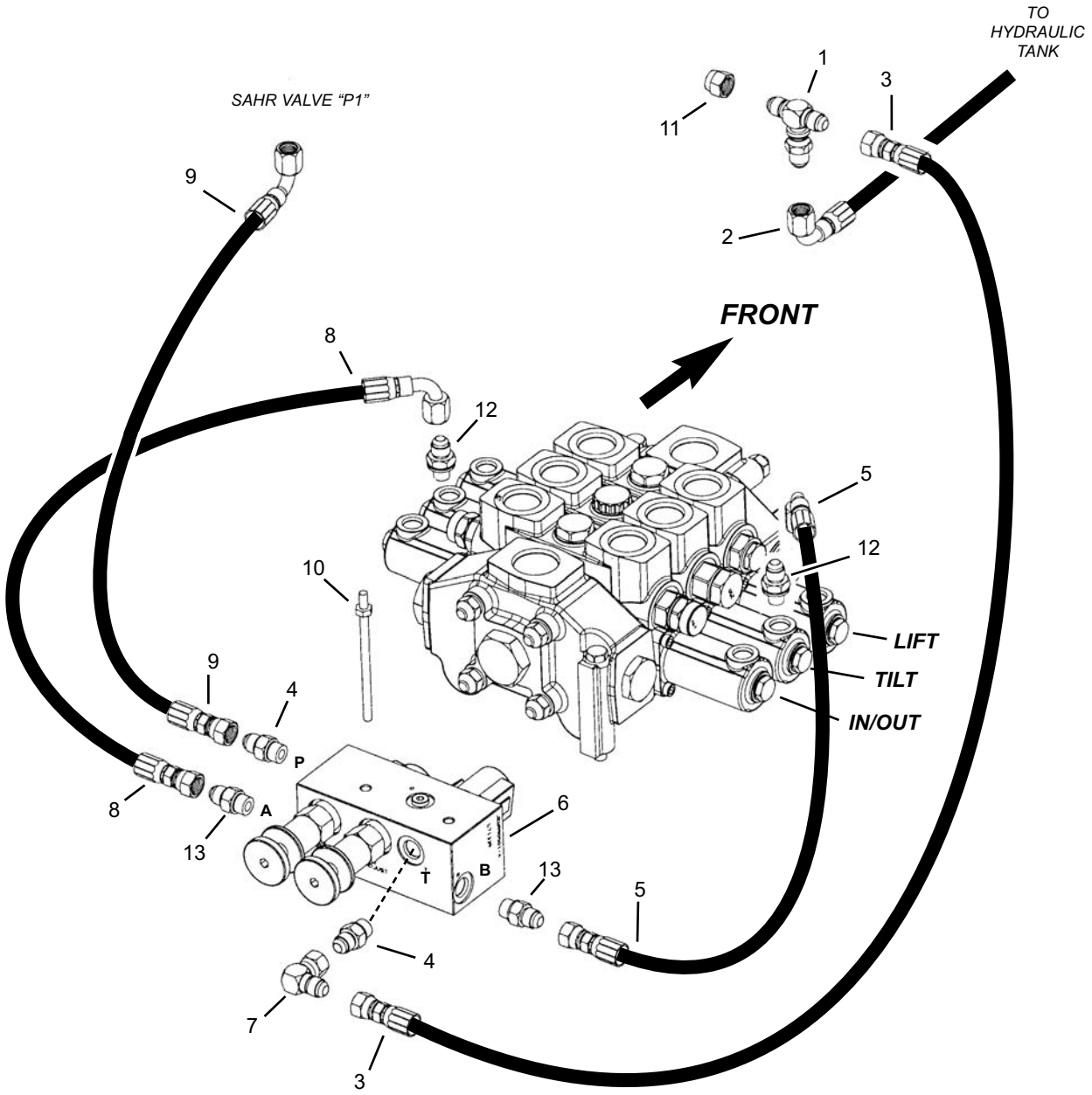

NOTE: The auxiliary hydraulics valve section (option) is shown in this illustration.
To Hydraulic Oil Cooler
To Lift Cylinder Tubes
To Lift Cylinder Tubes
To Slave Cylinder Tubes
To Hydraulic Pump
AUXILIARY - SECTION
BOOM IN/OUT - SECTION
TILT - SECTION
LIFT - SECTION
FRONT
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
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19
20
21
22
23
24

Ref. No.	Part No.	Description	Qty. Req.
01		MAIN CONTROL VALVE	1
	814492	*Note a - (not shown)*	
	814493	*Note b - (shown)*	
02	814328	3/8"-16 x 3-1/2" BOLT	2
03	813849	3/8" LOCK WASHER	2
04	813338	1/2"-13 x 1-1/4" BOLT	2
05	813337	1/2" FLAT WASHER	2
06	814494	VALVE MOUNT PLATE	1
07	808409	ADAPTER, JOYSTICK *(1/4BSP -6JICM STR)*	AR
08	814314	HOSE, -8 A12/DS10 50"	2
09	813704	ADAP. -12JICM -12JICFS 90º	2
10	814306	ADAP., -12JICM BLKHD RUN TEE	2
11	814394	ADAP., -12JICM BLKHD 90º	AR
12	813751	HOSE, -16 A16/DS16 78"	1
13	814495	ADAP., -16JICM -16ORM STR.	1
14[c]	814418	TUBE, AUXILIARY SECTION	2
15	814404	TUBE, BOOM IN/OUT *(long)*	1
16	814395	TUBE, BOOM IN/OUT *(short)*	1
17	814325	TUBE, TILT SECTION	2
18	814295	ADAP. -12JICM -12ORM 90º LNG	2
19	814294	HOSE, -12 A12/DS10 36"	2
20	814326	ADAP., -12ORM -12JICM STR.	AR
21	814396	ADAPTER, PORT RESTRICTOR	1
22	814397	RESTRICTOR, WORK PORT	1
23	813743	ADAP., -16JICM -16ORM 90º	1
24	814428	HOSE, -16 A16/A16 60"	1

a *The three-section valve does not include the auxiliary hydraulics work section. To add the auxiliary hydraulics work section to the main valve order (1) P/N 814496 Valve Section and (4) P/N 808367 Tie Rod Kit.*

b *Four-section valve, includes auxiliary hydraulics work section.*

c *Used when equipped with optional auxiliary hydraulics valve section.*

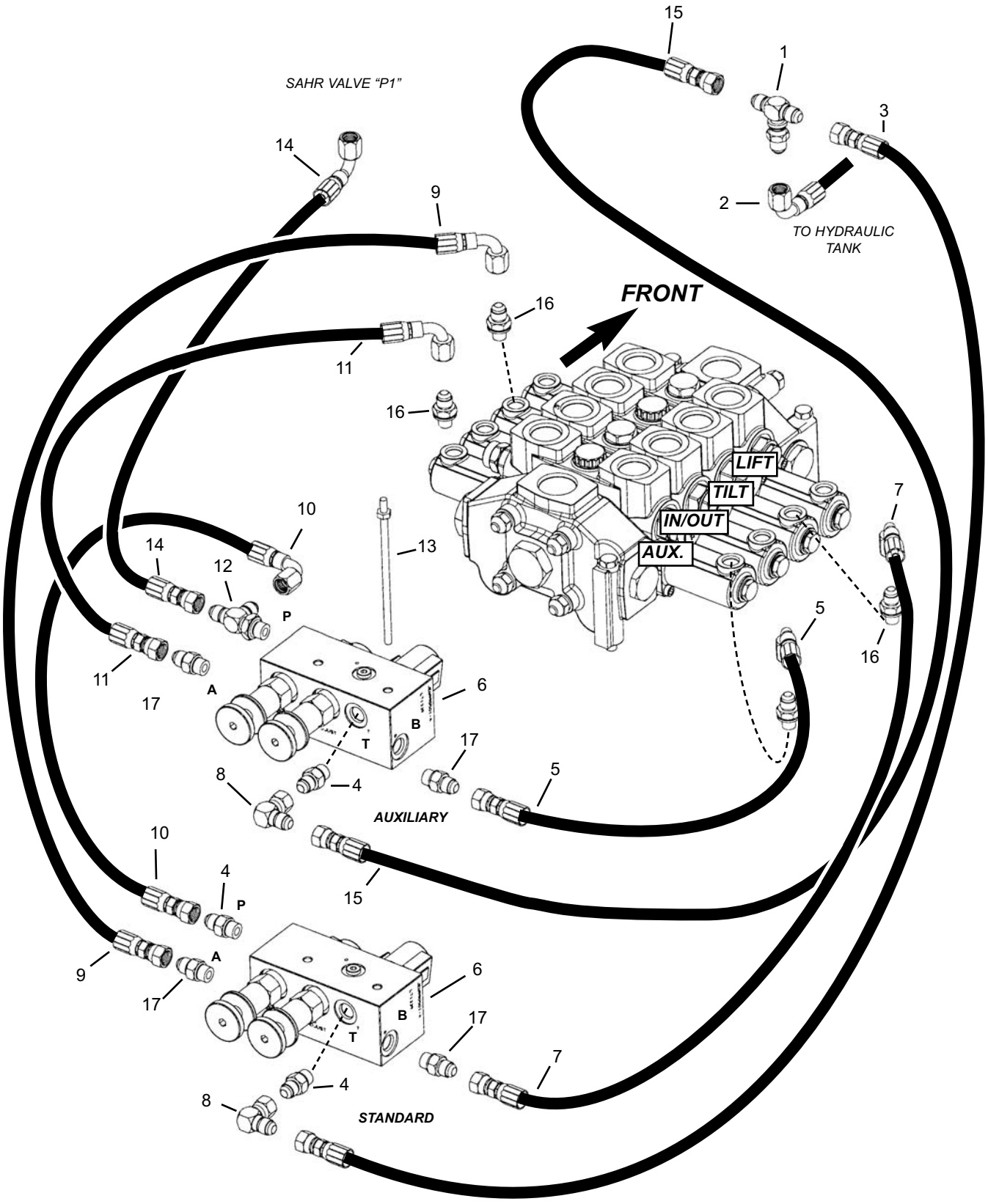

TO HYDRAULIC TANK
SAHR VALVE "P1"
FRONT
LIFT
TILT
IN/OUT
P
A
B
T
1
2
3
4
5
6
7
8
9
10
11
12
13

Tri-Function (Four-Button) Manifold - Standard Hydraulics

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814500	ADAP., -6JICM BLKHEAD TEE	1	08	814501	HOSE, -4 A6/DS6 20”	2
02	813680	HOSE, -4 A6/DS6 84”	1	09	814467	HOSE, -4 A6/DS6 98”	1
03	813679	HOSE, -4 A6/A6 40”	1	10	814503	1/4” x 3-1/4” STUD	2
04	813596	ADAP., -6ORM -6JICM STR	9	11	814504	ADAP., CAP -6JICF	1
05	814501	HOSE, -4 A6/DS6 20”	2	12	808409	ADAP., 1/4BSP -6JICM	AR
06	814502	PILOT APPLY MANIFOLD	1	13	814505	ADAP., -6ORM -6JICM *(w/orifice)*	2
07	813597	ADAP., -6ORM -6JICM 90º	1				

Hose Locator

Ref No.	From Port	To Port
02	BULKHEAD TEE (ABOVE VALVE)	HYDRAULIC TANK RETURN MANIFOLD
03	PILOT APPLY MANIFOLD “T”	BULKHEAD TEE (ABOVE VALVE)
05	PILOT APPLY MANIFOLD “B”	PILOT VALVE *(as shown)*
08	PILOT APPLY MANIFOLD “A”	PILOT VALVE *(as shown)*
09	PILOT APPLY MANIFOLD “P”	SAHR VALVE “P1” (BOTTOM OF TEE)


15
1
SAHR VALVE "P1"
3
14
2
9
TO HYDRAULIC TANK
FRONT
16
11
16
LIFT
TILT
IN/OUT
AUX.
7
10
13
14
12
P
5
16
11
17
A
6
B
T
17
8
4
5
AUXILIARY
10
4
15
P
9
A
6
17
B
T
17
7
4
8
STANDARD

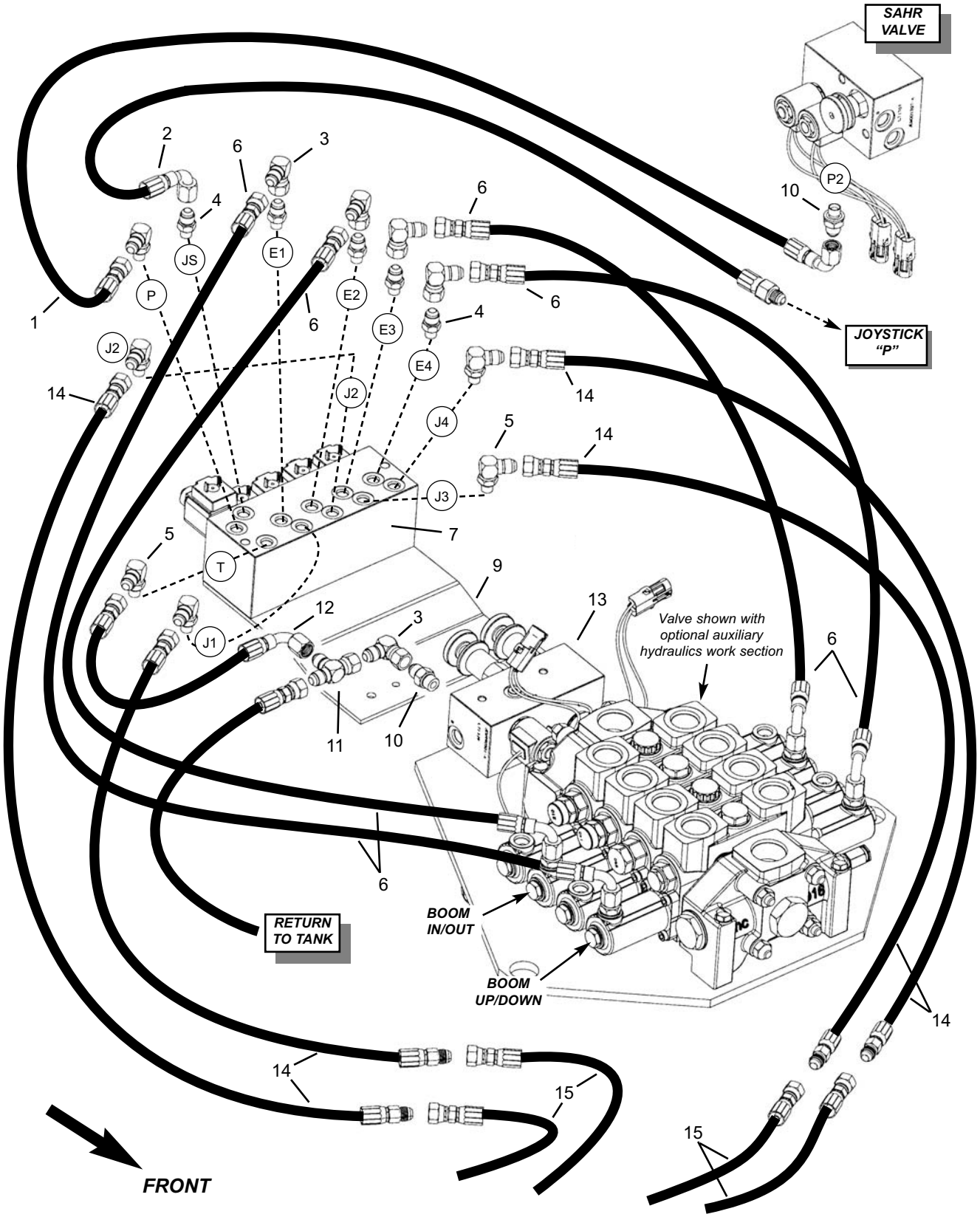
Tri-Function (Four-Button) Manifold - w/Auxiliary Hydraulics

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814500	ADAP., -6JICM BLKHEAD TEE	1	10	808882	HOSE, -4 A6/DS6 17”	1
02	813680	HOSE, -4 A6/DS6 84”	1	11	808882	HOSE, -4 A6/DS6 17”	1
03	813679	HOSE, -4 A6/A6 40”	1	12	814469	ADAP., -6ORM -6JICM RUN TEE	1
04	813596	ADAP., -6ORM -6JICM STR.	AR	13	814503	1/4”-20 x 5-3/4” STUD	2
05	808882	HOSE, -4 A6/DS6 17”	1	14	814467	HOSE, -4 A6/DS6 98”	1
06	814502	PILOT APPLY MANIFOLD.	1	15	813679	HOSE, -4 A6/A6 40”	1
07	814501	HOSE, -4 A6/DS6 20”	1	16	808409	ADAP., 1/4BSP -6JICM	AR
08	814506	ADAP., -6JICFS -6JICM 90º	2	17	814505	ADAP., -6ORM -6JICM *(w/orifice)*	4
09	814501	HOSE, -4 A6/DS6 20”	1				

Hose Locator

Ref No.	From Port	To Port
02	BULKHEAD TEE (ABOVE VALVE)	HYDRAULIC TANK RETURN MANIFOLD
03	STANDARD PILOT APPLY MANIFOLD “T”	BULKHEAD TEE (ABOVE VALVE)
05	AUXILIARY PILOT APPLY MANIFOLD “B”	PILOT VALVE *(as shown)*
07	STANDARD PILOT APPLY MANIFOLD “B”	PILOT VALVE *(as shown)*
09	STANDARD PILOT APPLY MANIFOLD “A”	PILOT VALVE *(as shown)*
10	STANDARD PILOT APPLY MANIFOLD “P”	AUXILIARY PILOT APPLY MANIFOLD “P”
11	AUXILIARY PILOT APPLY MANIFOLD “A”	PILOT VALVE *(as shown)*
14	AUXILIARY PILOT APPLY MANIFOLD “P”	SAHR VALVE “P1” (BOTTOM OF TEE)
15	AUXILIARY PILOT APPLY MANIFOLD “T”	BULKHEAD TEE (ABOVE VALVE)

Tri-Function (Four-Button) Manifold - Radio Remote Option

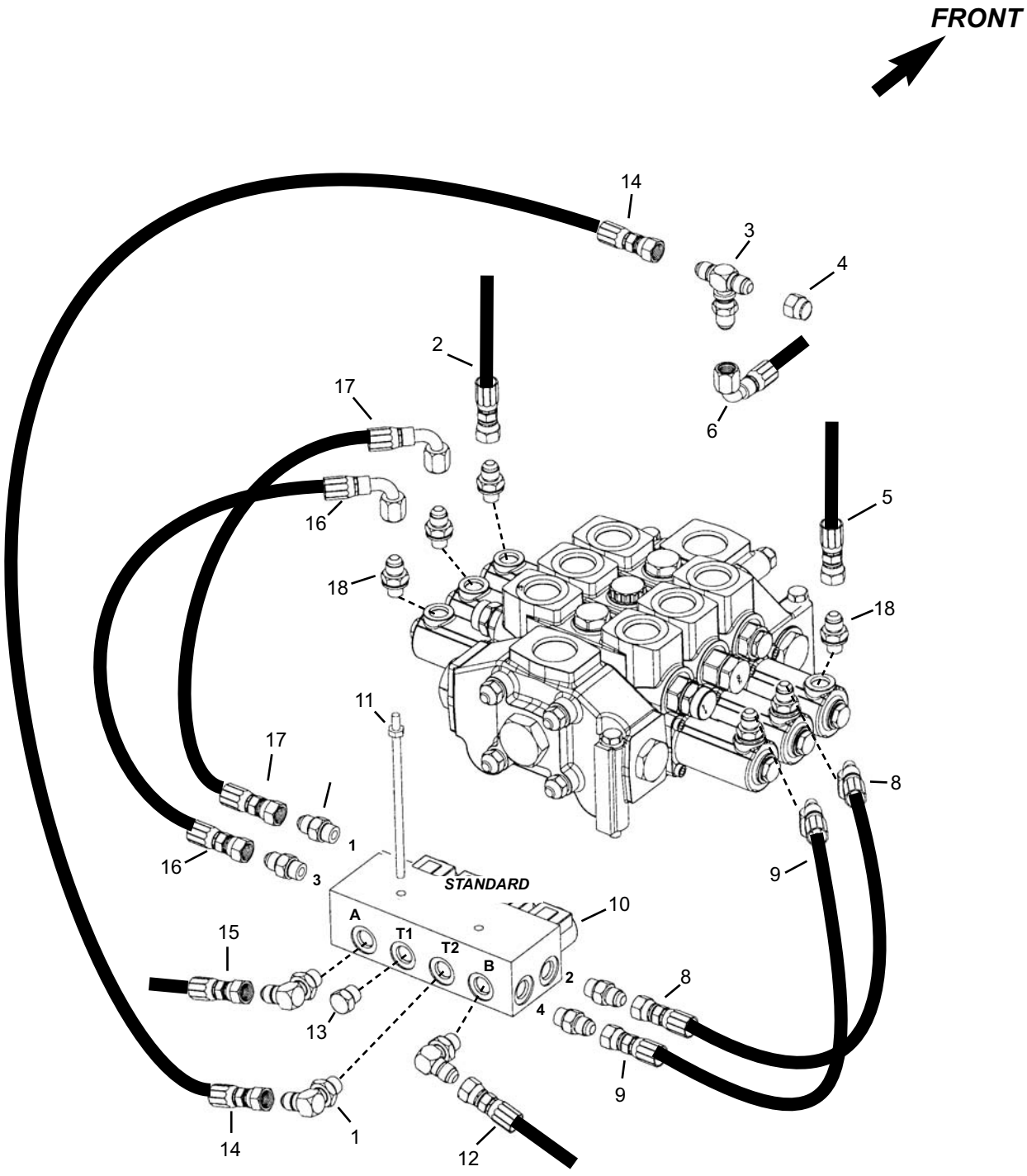


Tri-Function (Four-Button) Manifold - Radio Remote Option

Ref. No.	Part No.	Description	Qty. Req.
01	814507	HOSE, -4 A6/DS6 106”	1
02	809764	HOSE, -4 DS6/H6 109”	1
03	814506	ADAP., -6JICFS -6JICM 90º	AR
04	814450	ADAP., -4ORM -6JICM STR.	5
05	814431	ADAP., -4ORM -6JICM 90º	6
06	808850	HOSE, -4 A6/DS6 26”	4
07	809732	MANIFOLD, RADIO REMOTE	1
09	809740	MOUNT, MANIFOLD	1
10	813596	ADAP., -6ORM -6JICM STR.	AR
11	814461	ADAP., -6 RUN TEE	1
12	808882	HOSE, -4 A6/DS6 17”	1
13[a]	814502	PILOT APPLY MANIFOLD	AR
14	809765	HOSE, -4 H6/A6 20”	4
15[b]	809773	HOSE, -4 A6/A6 110”	4

a *Units equipped with the auxiliary hydraulics option use two manifolds, and the hose routing remains the same as shown in the illustration on the facing page.*

b *Hoses connect to the tri-function controller (joystick). Refer to “Tri-Function Controller” for more information*


FRONT
14
3
4
2
17
6
16
5
18
18
11
17
8
1
16
3
STANDARD
9
10
A
T1
T2
B
2
4
15
8
13
9
14
1
12

Dual-Function (Two-Button) Manifold - Standard Hydraulics

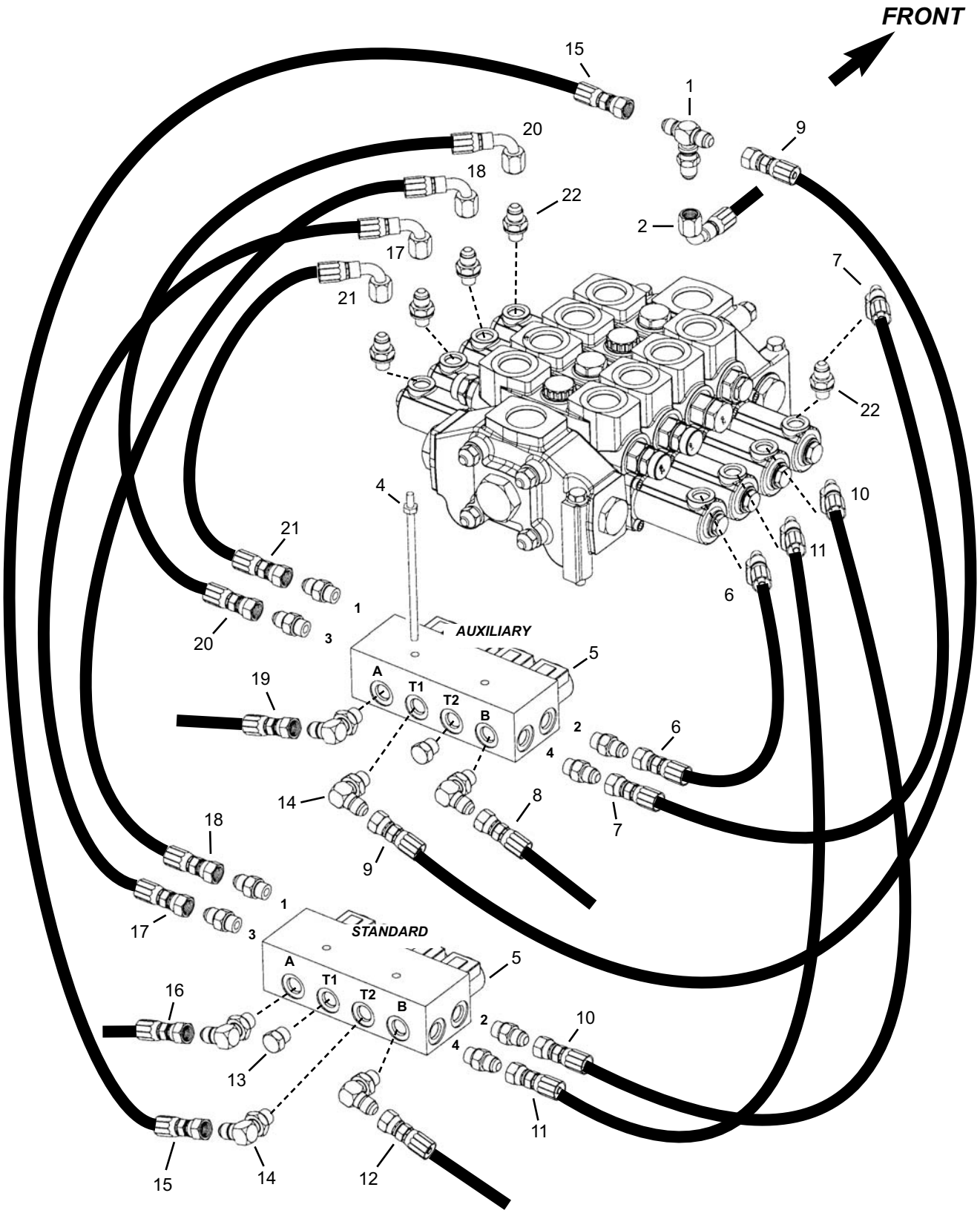
Ref. No.	Part No.	Description	Qty. Req.
01	813597	ADAP., -6ORM -6JICM 90º	AR
02[a]	809773	HOSE, -4 A6/A6 110”	1
03	814500	ADAP., -6JICM BLKHEAD TEE	1
04	814504	ADAP., -6JICM CAP	1
05[a]	809773	HOSE, -4 A6/A6 110”	1
06	813680	HOSE, -4 A6/DS6 84”	1
07	813596	ADAP., -6ORM -6JICM STR	7
08	814501	HOSE, -4 A6/DS6 20”	1
09	808882	HOSE, -4 A6/DS6 17”	1
10	814508	PILOT APPLY MANIFOLD	1
11	814509	STUD	2
	808545	1/4”-20 WHIZ LOCK NUT	2
12[a]	809766	HOSE, -4 A6/A6 130”	1
13	814439	ADAP., -6ORM PLUG	1
14	813679	HOSE, -4 A6/A6 40”	1
15[a]	809766	HOSE, -4 A6/A6 130”	1
16	808882	HOSE, -4 A6/DS6 17”	1
17	814501	HOSE, -4 A6/DS6 20”	1
18	808409	ADAP., 1/4BSP -6JICM	AR

a *Hoses connect to the dual-function controller (joystick). Refer to “Dual-Function Controller” for more information.*

Hose Locator

Ref No.	From Port	To Port
02	PILOT VALVE *(as shown)*	JOYSTICK “4”
05	PILOT VALVE *(as shown)*	JOYSTICK “2”
06	BULKHEAD TEE (ABOVE VALVE)	HYDRAULIC TANK RETURN MANIFOLD
08	STANDARD PILOT APPLY MANIFOLD “2”	PILOT VALVE *(as shown)*
09	STANDARD PILOT APPLY MANIFOLD “4”	PILOT VALVE *(as shown)*
12	STANDARD PILOT APPLY MANIFOLD “B”	JOYSTICK “1”
14	STANDARD PILOT APPLY MANIFOLD “T2”	BULKHEAD TEE (ABOVE VALVE)
15	STANDARD PILOT APPLY MANIFOLD “A”	JOYSTICK “3”
16	STANDARD PILOT APPLY MANIFOLD “3”	PILOT VALVE *(as shown)*
17	STANDARD PILOT APPLY MANIFOLD “3”	PILOT VALVE *(as shown)*

Dual-Function (Two-Button) Manifold - w/Auxiliary Hydraulics



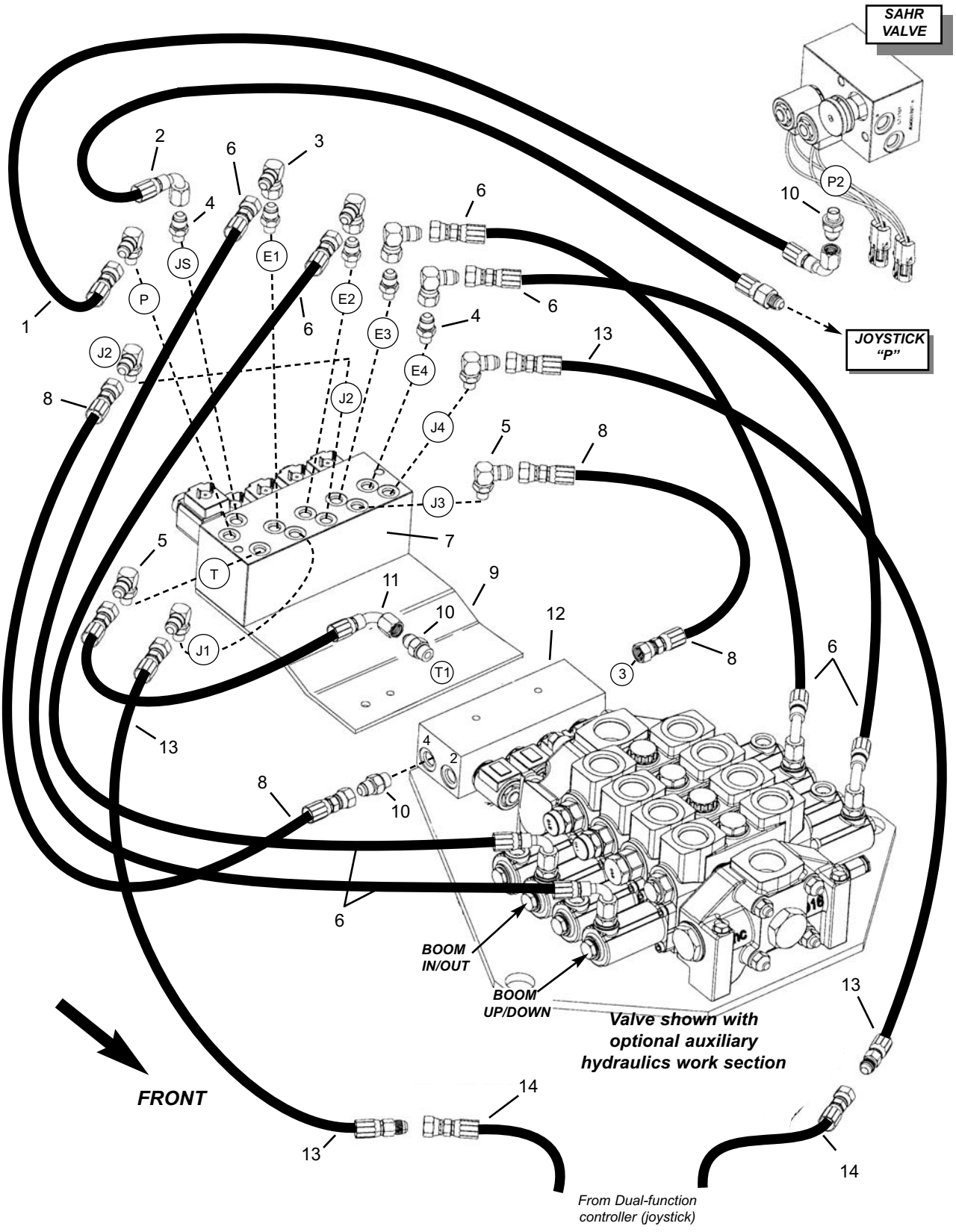
Dual-Function (Two-Button) Manifold - w/Auxiliary Hydraulics

Ref. No.	Part No.	Description	Qty. Req.
01	814500	ADAP., -6JICM BLKHEAD TEE	1
02	813680	HOSE, -4 A6/DS6 84”	1
03	813596	ADAP., -6ORM -6JICM STR	16
04	814510	STUD	2
05	814508	PILOT APPLY MANIFOLD	2
06	808882	HOSE, -4 A6/DS6 17”	1
07	814501	HOSE, -4 A6/DS6 20”	1
08[a]	809773	HOSE, -4 A6/A6 110”	1
09	813679	HOSE, -4 A6/A6 40”	1
10	814501	HOSE, -4 A6/DS6 20”	1
11	808882	HOSE, -4 A6/DS6 17”	1
12[a]	809766	HOSE, -4 A6/DS6 130”	1
13	814439	ADAP., -6ORM PLUG	1
14	813597	ADAP., -6ORM -6JICM 90º	6
15	813679	HOSE, -4 A6/A6 40”	1
16[a]	809766	HOSE, -4 A6/DS6 130”	1
17	808882	HOSE, -4 A6/DS6 17”	1
18	814501	HOSE, -4 A6/DS6 20”	1
19[a]	809773	HOSE, -4 A6/A6 110”	1
20	814501	HOSE, -4 A6/DS6 20”	1
21	808882	HOSE, -4 A6/DS6 17”	1
22	808409	ADAP., 1/4BSP -6JICM	AR

a *Hoses connect to the dual-function controller (joystick). Refer to “Dual-function Controller” for more information.*

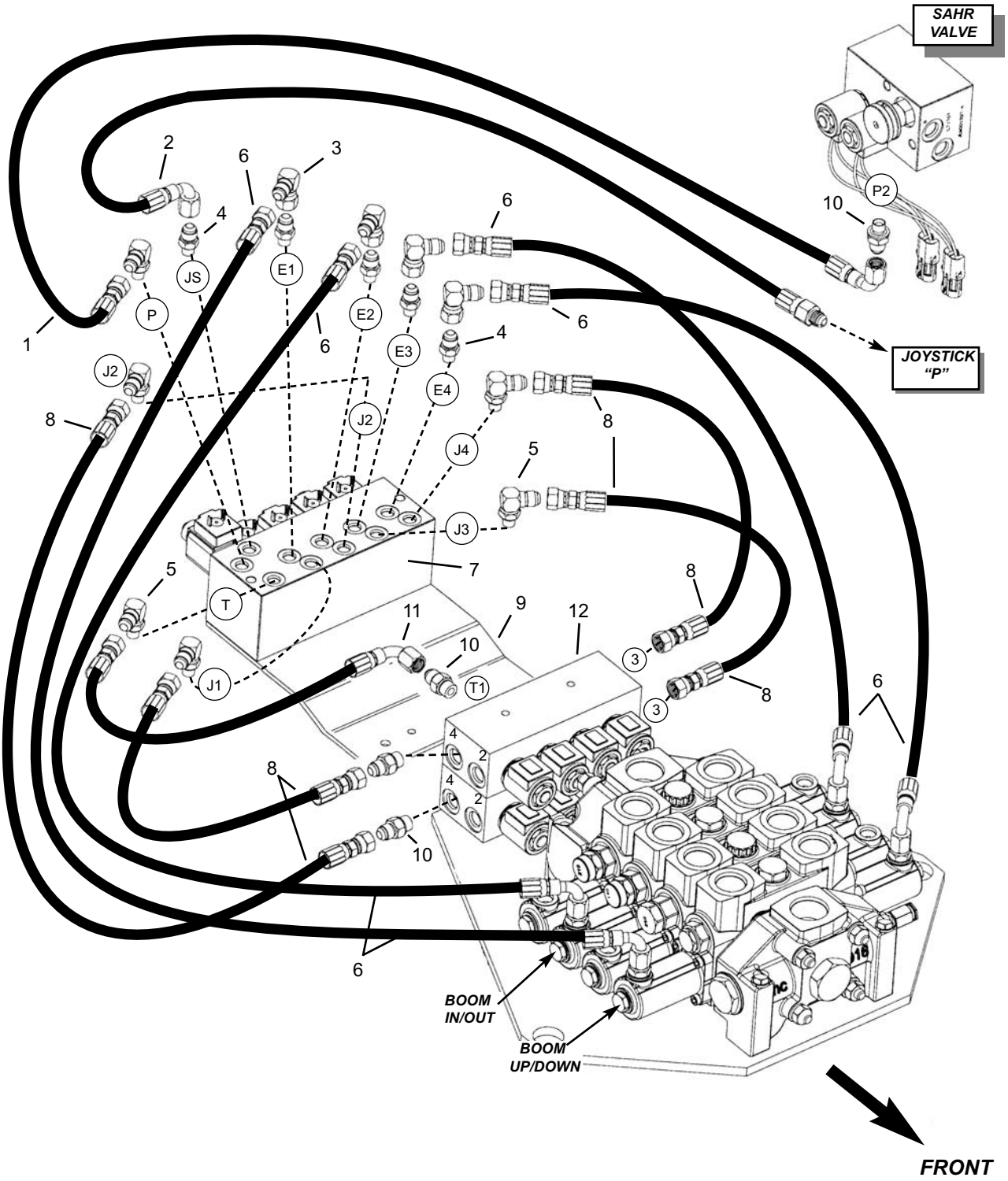
Hose Locator

Ref No.	From Port	To Port
02	BULKHEAD TEE (ABOVE VALVE)	HYDRAULIC TANK RETURN MANIFOLD
06	AUXILIARY PILOT APPLY MANIFOLD “2”	PILOT VALVE *(as shown)*
07	AUXILIARY PILOT APPLY MANIFOLD “4”	PILOT VALVE *(as shown)*
08	AUXILIARY PILOT APPLY MANIFOLD “B”	JOYSTICK “2”
09	AUXILIARY PILOT APPLY MANIFOLD “T1”	BULKHEAD TEE (ABOVE VALVE)
10	STANDARD PILOT APPLY MANIFOLD “2”	PILOT VALVE *(as shown)*
11	STANDARD PILOT APPLY MANIFOLD “4”	PILOT VALVE *(as shown)*
12	STANDARD PILOT APPLY MANIFOLD “B”	JOYSTICK “1”
15	STANDARD PILOT APPLY MANIFOLD “T2”	BULKHEAD TEE (ABOVE VALVE)
16	STANDARD PILOT APPLY MANIFOLD “A”	JOYSTICK “3”
17	STANDARD PILOT APPLY MANIFOLD “1”	PILOT VALVE *(as shown)*
18	STANDARD PILOT APPLY MANIFOLD “3”	PILOT VALVE *(as shown)*
19	STANDARD PILOT APPLY MANIFOLD “A”	JOYSTICK “4”
20	AUXILIARY PILOT APPLY MANIFOLD “1”	PILOT VALVE *(as shown)*
21	AUXILIARY PILOT APPLY MANIFOLD “3”	PILOT VALVE *(as shown)*


SAHR VALVE
P2
10
JOYSTICK "P"
2
6
3
4
JS
E1
E2
E3
E4
P
1
J2
8
J4
5
J3
7
T
11
9
10
12
J1
T1
13
4
2
BOOM IN/OUT
BOOM UP/DOWN
Valve shown with optional auxiliary hydraulics work section
FRONT
14
From Dual-function controller (joystick)

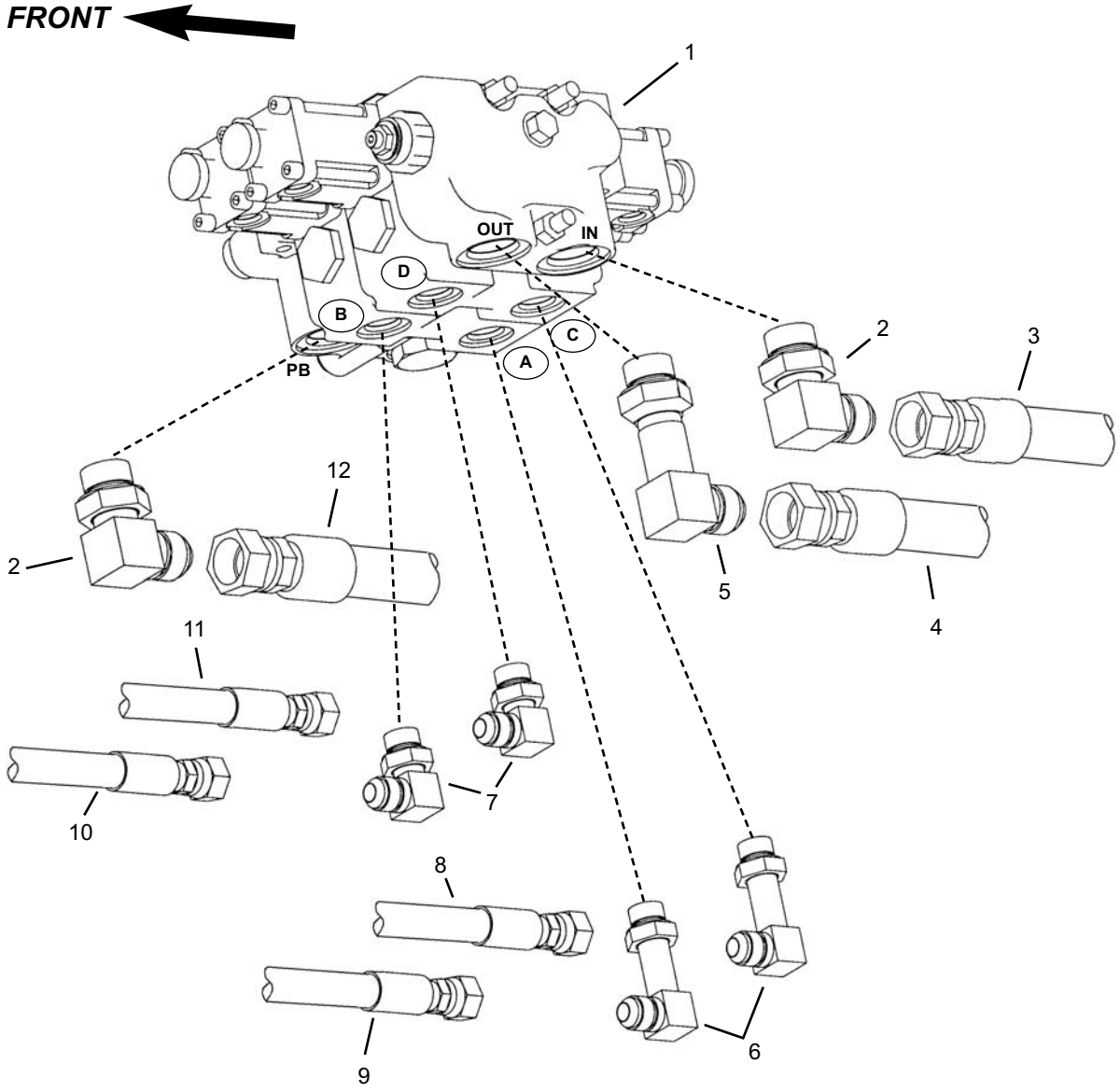
Dual-Function (Two-Button) Manifold - Radio Remote Option

Ref. No.	Part No.	Description	Qty. Req.
01	814507	HOSE, -4 A6/DS6 106”	1
02	809764	HOSE, -4 DS6/H6 109”	1
03	814506	ADAP., -6JICFS -6JICM 90º	AR
04	814450	ADAP., -4ORM -6JICM STR.	5
05	814431	ADAP., -4ORM -6JICM 90º	6
06	808850	HOSE, -4 A6/DS6 26”	4
07	809732	MANIFOLD, RADIO REMOTE	1
08	814511	HOSE, -4 A6/A6 16”	2
09	809740	MOUNT, MANIFOLD	1
10	813596	ADAP., -6ORM -6JICM STR.	AR
11	808882	HOSE, -4 A6/DS6 17”	1
12	814508	PILOT APPLY MANIFOLD.	1
13	809765	HOSE, -4 H6/A6 20”	2
14	809766	HOSE, -4 A6/A6 130”	2


SAHR VALVE
P2
10
JOYSTICK "P"
2
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JS
E1
6
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P
E2
E3
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J2
E4
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J2
8
J4
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J3
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5
T
11
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12
8
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T1
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10
6
BOOM IN/OUT
BOOM UP/DOWN
FRONT

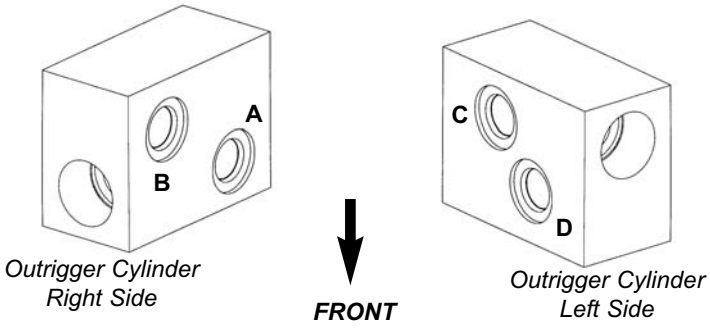
Dual-Function (Two-Button) Manifold - Radio Remote Option w/Aux. Hyd.

Ref. No.	Part No.	Description	Qty. Req.
01	814507	HOSE, -4 A6/DS6 106”	1
02	809764	HOSE, -4 DS6/H6 109”	1
03	814506	ADAP., -6JICFS -6JICM 90º	AR
04	814450	ADAP., -4ORM -6JICM STR.	5
05	814431	ADAP., -4ORM -6JICM 90º	6
06	808850	HOSE, -4 A6/DS6 26”	4
07	809732	MANIFOLD, RADIO REMOTE	1
08	814511	HOSE, -4 A6/A6 16”	4
09	809740	MOUNT, MANIFOLD	1
10	813596	ADAP., -6ORM -6JICM STR.	AR
11	808882	HOSE, -4 A6/DS6 17”	1
12	814508	PILOT APPLY MANIFOLD.	2


FRONT
1
OUT
IN
D
B
C
A
PB
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12
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6

Outrigger Valve and Hoses

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814512	OUTRIGGER VALVE *(V20)*	1	07	814308	ADAP., -8ORM -8JICM 90º	2
02	813664	ADAP., -12ORM -12JICM 90º	2	08	813710	HOSE, -6 A8/DS8 70”	1
03	814459	HOSE, -12 A12/A16 76”	1	09	813710	HOSE, -6 A8/DS8 70”	1
04	813692	HOSE, -12 A12/NS10 51”.	1	10	813709	HOSE, -6 A8/DS8 68”	1
05	814295	ADAP -12ORM -12JICM 90º LNG	1	11	813709	HOSE, -6 A8/DS8 68”	1
06	814513	ADAP., -8ORM -8JICM 90º LNG	2	12	814458	HOSE, -12 A12/A16 61	1

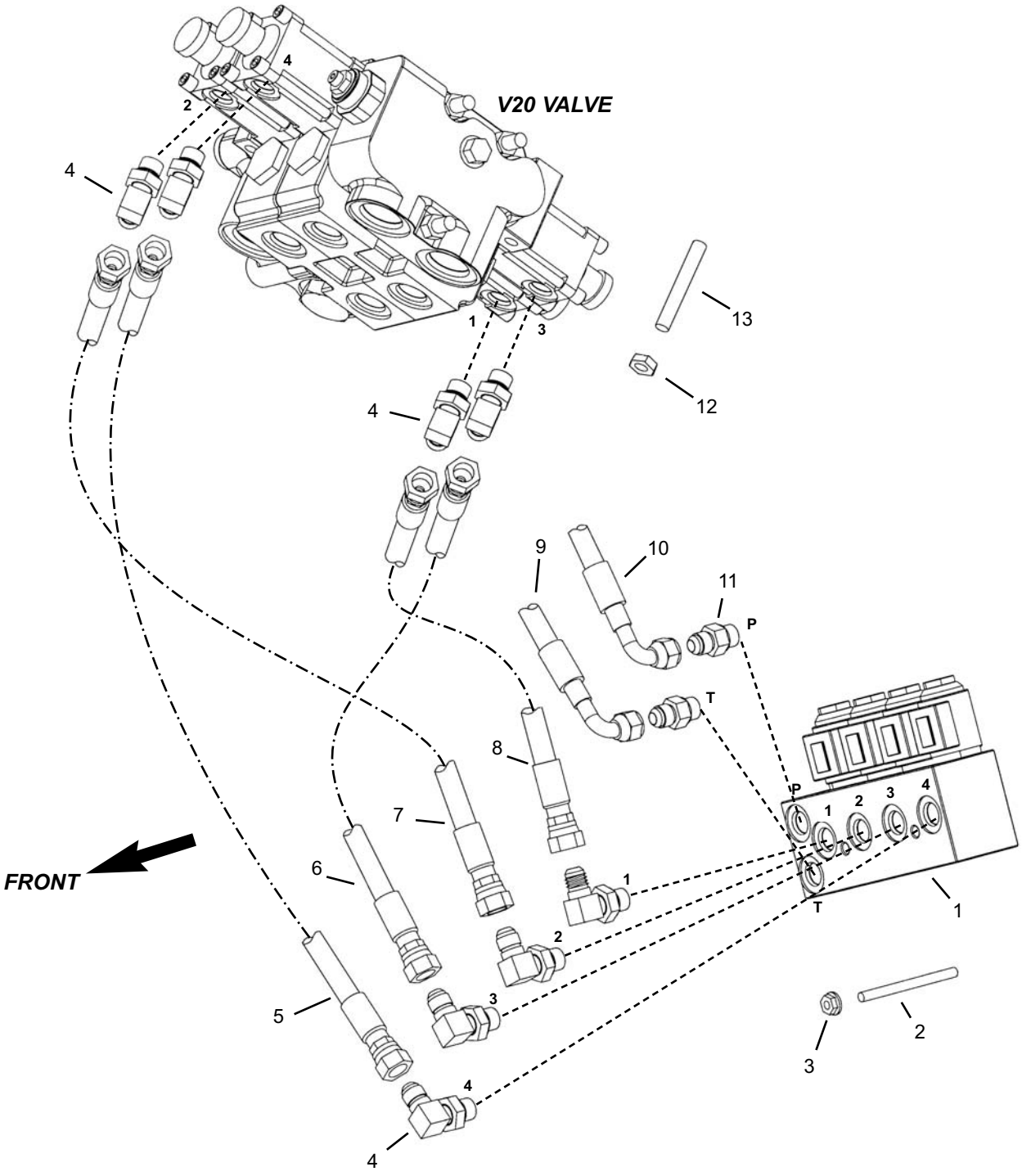


Outrigger Cylinder Right Side

Outrigger Cylinder Left Side

Hose Locator

Ref No.	From Port	To Port
03	V20 VALVE “IN”	FLOW DIVIDER ON HYDRAULIC PUMP
04	V20 VALVE “OUT”	HYDRAULIC TANK
08	V20 VALVE “C”	LEFT OUTRIGGER “UPPER PORT” (C)
09	V20 VALVE “A”	RIGHT OUTRIGGER “LOWER PORT” (A)
10	V20 VALVE “B”	RIGHT OUTRIGGER “UPPER PORT” (B)
11	V20 VALVE “D”	LEFT OUTRIGGER “LOWER PORT” (D)
12	V20 VALVE “PB”	HYDRAULIC PUMP

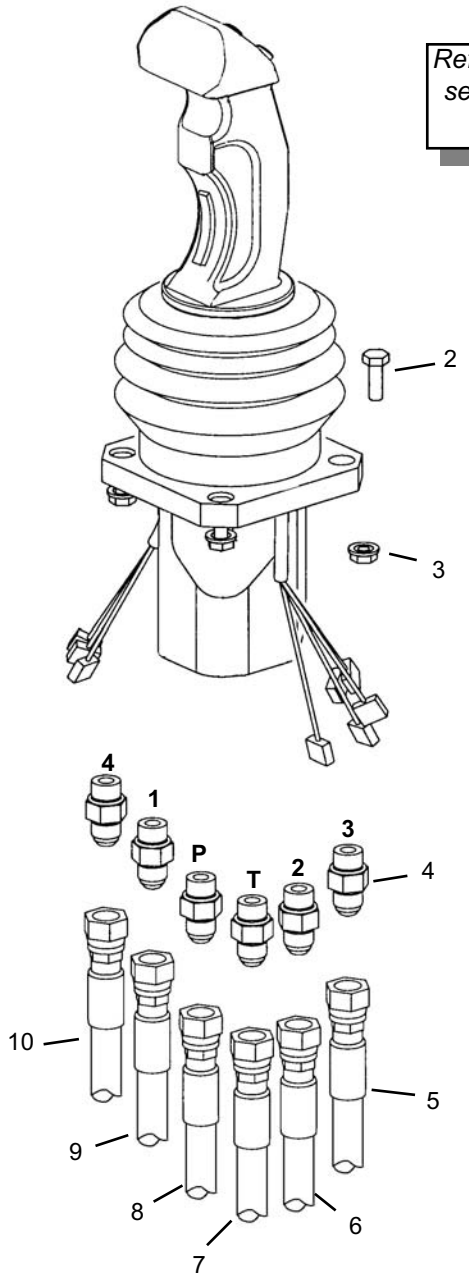

V20 VALVE
FRONT
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P
T

Ref. No.	Part No.	Description	Qty. Req.
01	814514	OUTRIGGER PILOT VALVE	1
02	814509	1/4”-20 x 3” STUD	2
03	808545	1/4”-20 FLANGE NUT	2
04	813597	ADAP., -6ORM - 6JICM 90º	8
05	814515	HOSE, -4 A6/A6 28”	1
06	814511	HOSE, -4 A6/A6 16”	1
07	814515	HOSE, -4 A6/A6 28”	1
08	814511	HOSE, -4 A6/A6 16”	1
09	814460	HOSE, -4 A6/DS6 70”	1
10	814460	HOSE, -4 A6/DS6 70”	1
11	813596	ADAP., -6ORM -6JICM STR	11
12	808662	5/16”-18 NYLON INSERT NUT	3
13	809494	5/16”-18 x 3” STUD	3

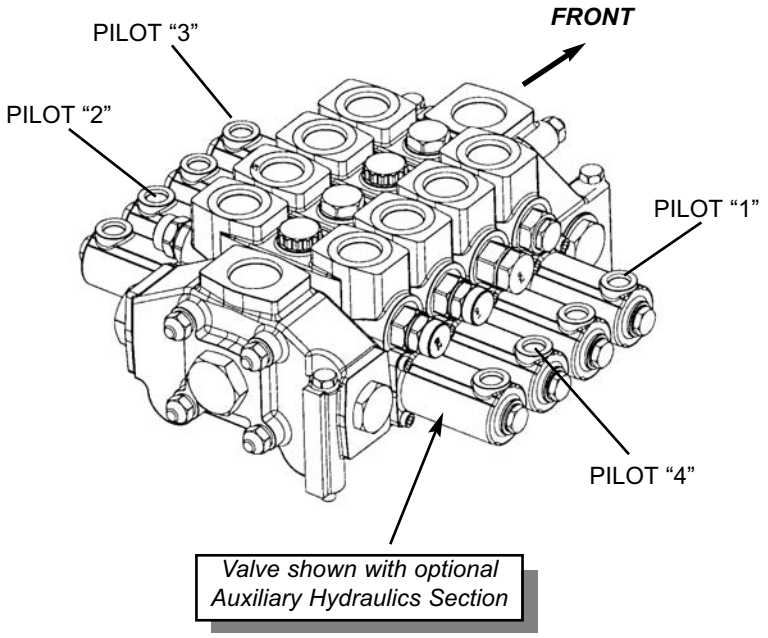
Hose Locator

Ref No.	From Port	To Port
05	OUTRIGGER PILOT MANIFOLD “4”	V20 VALVE “4”
06	OUTRIGGER PILOT MANIFOLD “3”	V20 VALVE “3”
07	OUTRIGGER PILOT MANIFOLD “2”	V20 VALVE “2”
08	OUTRIGGER PILOT MANIFOLD “1”	V20 VALVE “1”
09	OUTRIGGER PILOT MANIFOLD “T”	HYDRAULIC PUMP FLOW DIVIDER “T”
10	OUTRIGGER PILOT MANIFOLD “P”	HYDRAULIC PUMP FLOW DIVIDER “PF”

Refer to "Hydraulic Components" section for a complete listing of parts for the controller.



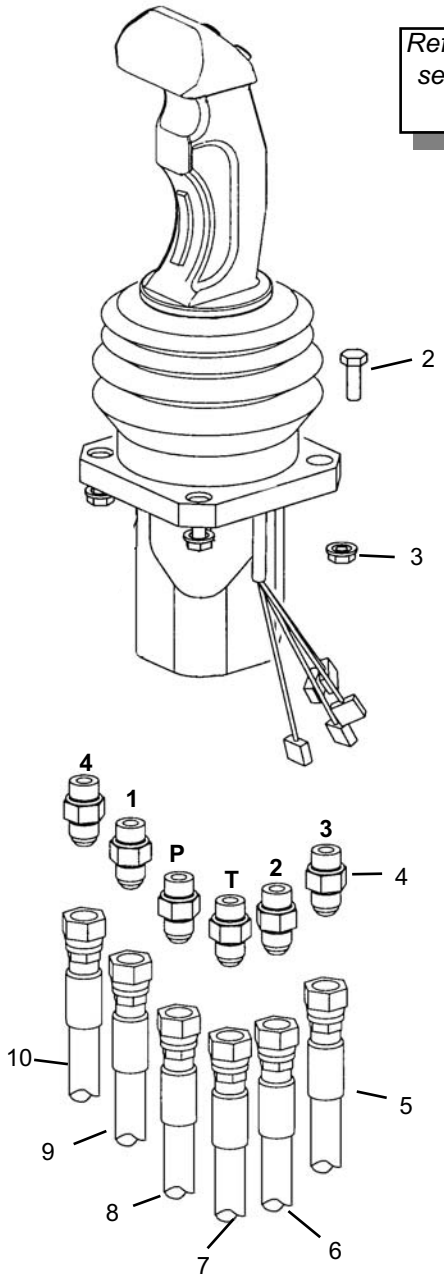
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
02	813570	1/4"-20 x 3/4" BOLT	4	07	808884	HOSE, -4 A6/A6 25"	1
03	808545	1/4"-20 FLANGE NUT	4	08	809616	HOSE, -4 A6/A6 46"	1
04	813596	ADAP., -6ORM -6ORM STR	6	09	809773	HOSE, -4 A6/A6 110"	1
05	809773	HOSE, -4 A6/A6 110"		10	809773	HOSE, -4 A6/A6 110"	1
06	809773	HOSE, -4 A6/A6 110"	1				



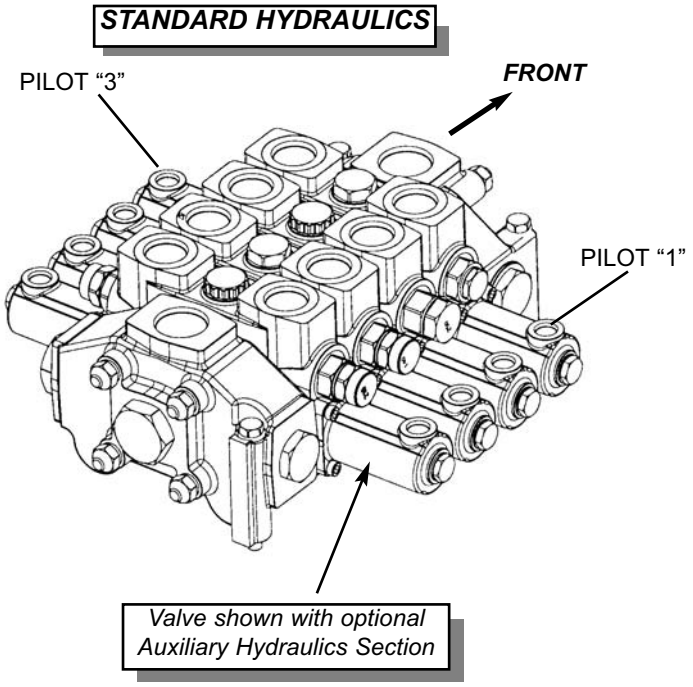
Hose Locator

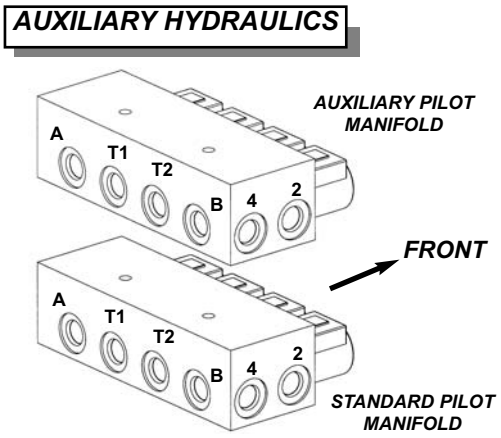
Ref No.	From Port	To Port
05	JOYSTICK "3"	PILOT "3"
06	JOYSTICK "2"	PILOT "2"
07	JOYSTICK "T"	HYDRAULIC TANK RETURN MANIFOLD
08	JOYSTICK "P"	SAHR VALVE "P2"
09	JOYSTICK "1"	PILOT "1"
10	JOYSTICK "4"	PILOT "4"

Refer to "Hydraulic Components" section for a complete listing of parts for the controller.



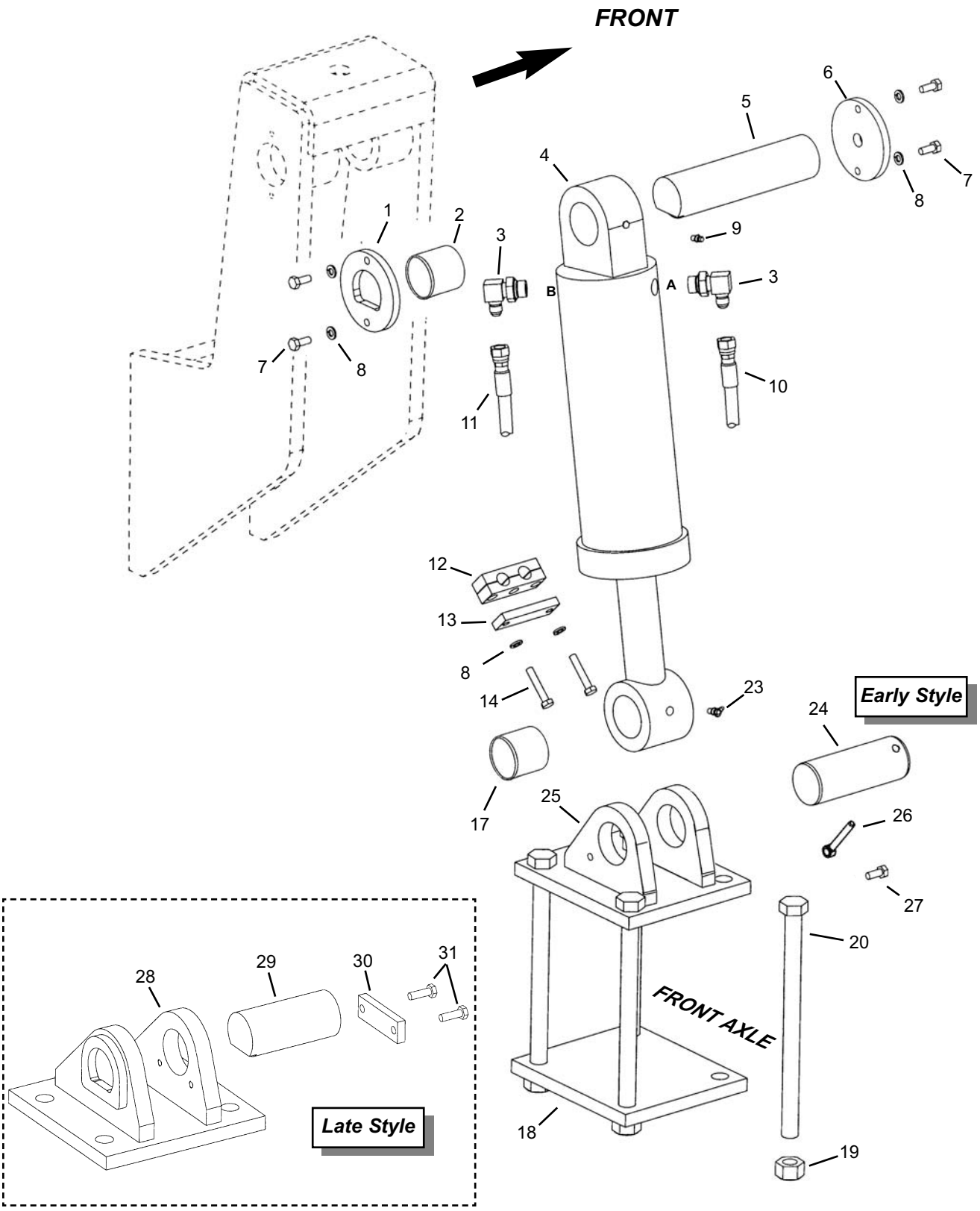
Ref. No.	Part No.	Description	Qty. Req.
02	813570	1/4”-20 x 3/4” BOLT	4
03	808545	1/4”-20 FLANGE NUT	4
04	813596	ADAP., -6ORM -6ORM STR	6
05	809766	HOSE, -4 A6/A6 130”	1
06	809773	HOSE, -4 A6/A6 110”	1
07	808884	HOSE, -4 A6/A6 25”	1
08	809616	HOSE, -4 A6/A6 46”	1
09	809766	HOSE, -4 A6/A6 130”	1
10	809773	HOSE, -4 A6/A6 110”	1





Hose Locator

Ref No.	From Port	To Port
		---- STANDARD HYDRAULICS ----
05	JOYSTICK “3”	STANDARD PILOT APPLY MANIFOLD “A”
06	JOYSTICK “2”	PILOT “1“
07	JOYSTICK “T”	HYDRAULIC TANK RETURN MANIFOLD
08	JOYSTICK “P”	SAHR VALVE “P2”
09	JOYSTICK “1”	STANDARD PILOT APPLY MANIFOLD “B”
10	JOYSTICK “4”	PILOT “3”
		---- AUXILIARY HYDRAULICS ----
05	JOYSTICK “3”	STANDARD PILOT APPLY MANIFOLD “A”
06	JOYSTICK “2”	AUXILIARY PILOT APPLY MANIFOLD “B”
07	JOYSTICK “T”	HYDRAULIC TANK RETURN MANIFOLD
08	JOYSTICK “P”	SAHR VALVE “P2”
09	JOYSTICK “1”	STANDARD PILOT APPLY MANIFOLD “B”
10	JOYSTICK “4”	AUXILIARY PILOT APPLY MANIFOLD “A”

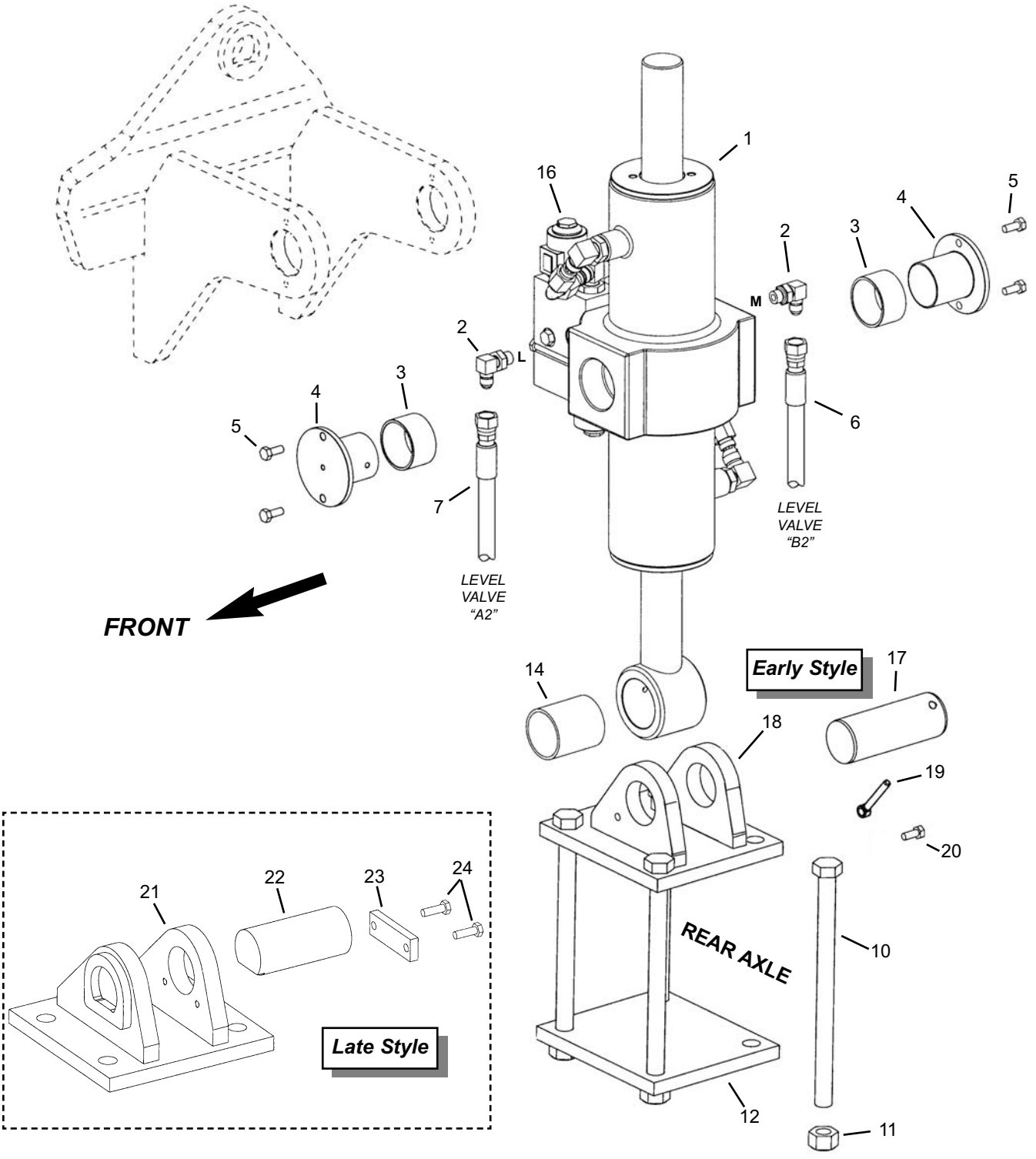

FRONT
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31
A
B
Early Style
Late Style
FRONT AXLE

Ref. No.	Part No.	Description	Qty. Req.
01	808874	PIN LOCK CAP 2”	1
02	808756	BUSHING *(base end)*	1
03	814517	ADAP., -8ORM -6JICM 90º	2
04	809513	FRAME LEVEL CYLINDER	1
05	814518	LEVEL CYLINDER PIN	1
06	814519	PIVOT PIN LOCK CAP	1
07	808498	5/16”-18 x 3/4” BOLT	4
08	808497	5/16” LOCK WASHER	6
09	808424	ZERK, 1/4”-28 STR	1
10	814489	HOSE, -4 A6/A6 126”	1
11	814489	HOSE, -4 A6/A6 126”	1
12	808728	TWIN HOSE CUSHION 11/16”	2
13	808727	TWIN CUSH. TOP PLATE	1
14	814302	5/16-18 x 1-3/4” BOLT	2
17	808708	BUSHING *(rod end)*	1
18	814033	LEVEL MOUNT PLATE	1
19	808583	3/4”-10 NUT GR8	4
20	814034	3/4-10X11” GR8 BOLT	4
23	808423	ZERK, 1/4”-28 90º	1
24[a]	808856	LEVEL CYL. PIN *(base end)*	1
25[a]	814520	LEVEL CYL MOUNT WELDMENT	1
26[a]	808855	LOCK, PIVOT PIN	1
27[a]	813713	BOLT	1
28[b]	814521	FRAME LEVEL/STABILIZER MNT.	1
29[b]	814522	PIN *(rod end)*	1
30[b]	808727	PLATE	1
31[b]	813598	5/16” x 1” BOLT	2

a *Early style frame level and stabilizer mount.*
b *Late style frame level and stabilizer mount.*

Hose Locator

Ref No.	From Port	To Port
10	LEVEL CYLINDER “A”	LEVEL VALVE “A1”
11	LEVEL CYLINDER “B”	LEVEL VALVE “B1”


1
16
2
M
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L
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7
LEVEL VALVE "B2"
LEVEL VALVE "A2"
FRONT
Early Style
14
17
18
19
20
REAR AXLE
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24
Late Style

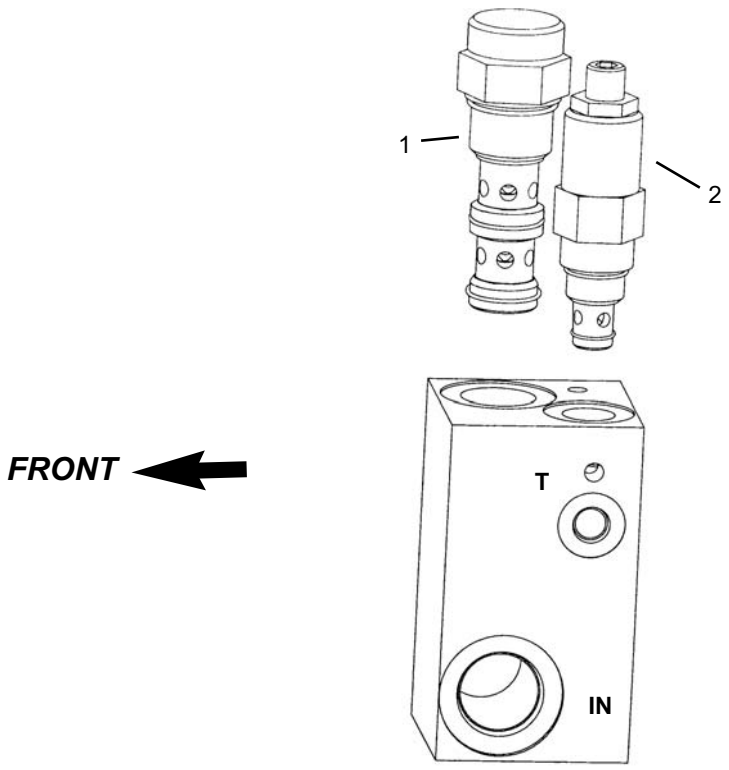
Frame Stabilizer Cylinder Group

Ref. No.	Part No.	Description	Qty. Req.
01[a]	814524	FRAME STABILIZER CYLINDER *(cylinder only - does not include #16)*	1
02	813597	ADAP., -6ORM -6JICM 90º	2
03	808878	BUSHING	2
04	808879	TRUNNION PIVOT PIN	2
05	808498	5/16”-18 x 3/4” BOLT	4
06	814491	HOSE, -4 A6/DS6 65”	1
07	814491	HOSE, -4 A6/DS6 65”	1
10	814034	3/4-10X11” GR8 BOLT	4
11	814525	3/4”-10 NUT GR8	4
12	814033	LEVEL MOUNT PLATE	1
13	813711	3/8”-16 x 3” BOLT	1
14	808858	BUSHING *(rod end)*	1
15	814526	FRAME LEVEL CYL PIN	1
16[a]	814527	STABILIZER CYL. MANIFOLD	1
17[b]	808856	LEVEL CYL. PIN *(rod end)*	1
18[b]	814520	LEVEL CYL MOUNT WELDMENT	1
19[b]	808855	LOCK, PIVOT PIN	1
20[b]	813713	BOLT	1
21[c]	814521	FRAME LEVEL/STABILIZER MNT.	1
22[c]	814522	PIN *(rod end)*	1
23[c]	808727	PLATE	1
24[c]	813598	5/16” x 1” BOLT	2

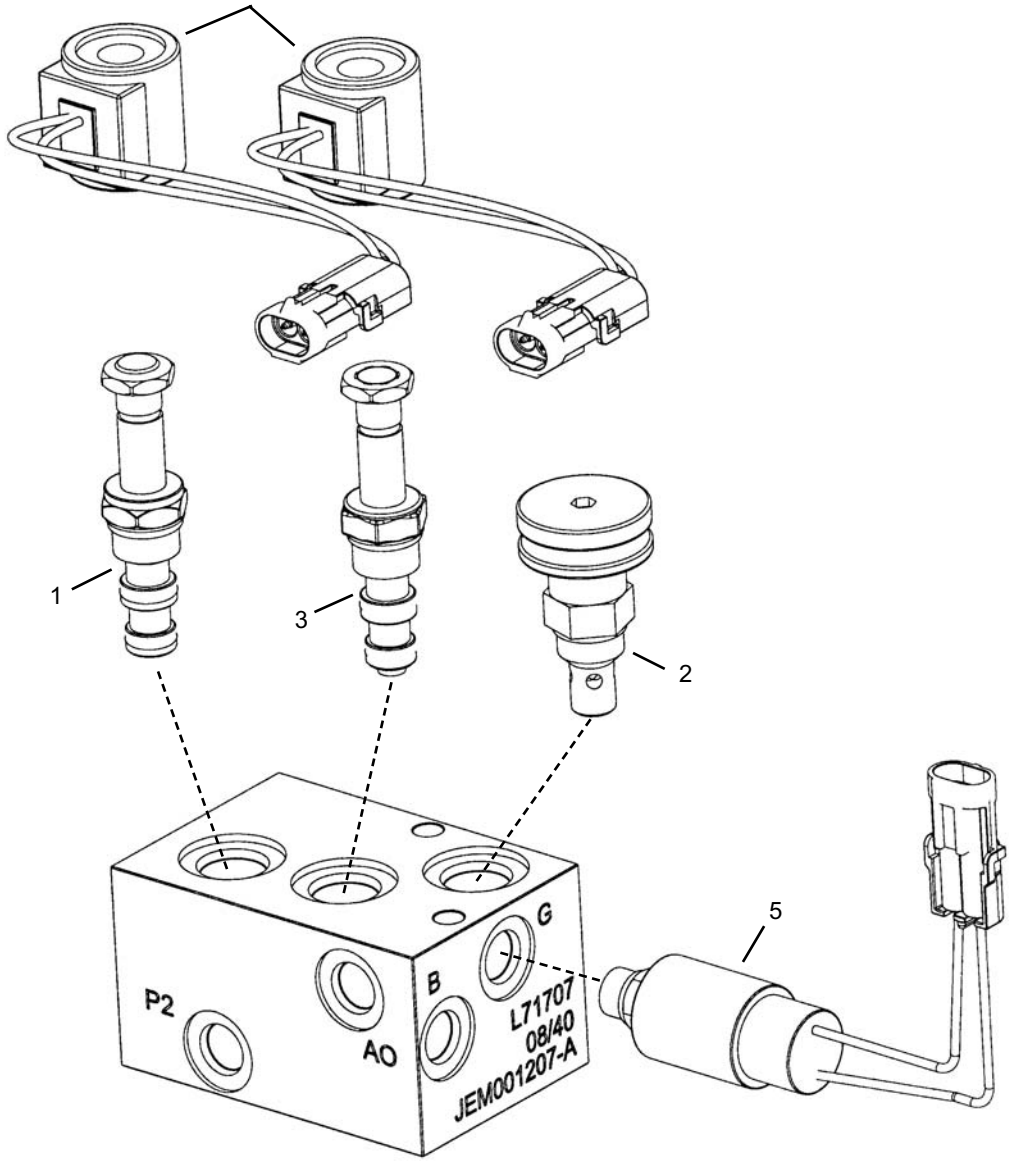
a *Refer to Hydraulic Components section - Stabilizer Manifold for manifold, valves, hardware and tubes.*
b *Early style frame level and stabilizer mount.*
c *Late style frame level and stabilizer mount.*

Hose Locator

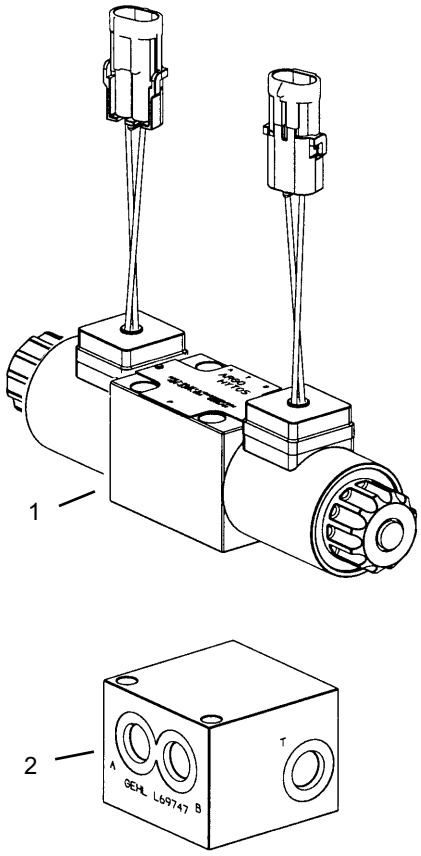
Ref No.	From Port	To Port
06	STABILIZER CYLINDER MANIFOLD “L”	LEVEL VALVE “A2”
07	STABILIZER CYLINDER MANIFOLD “M”	LEVEL VALVE “B2”



Ref. No.	Part No.	Description	Qty. Req.
00	814434	FLOW DIVIDER. . . . . 1 *(includes all items shown)*	
01	814528	PRESSURE REGULATOR 1	
	814529	SEAL KIT 1	
02L	809157	RELIEF VALVE 1	
	809384	SEAL KIT 1	

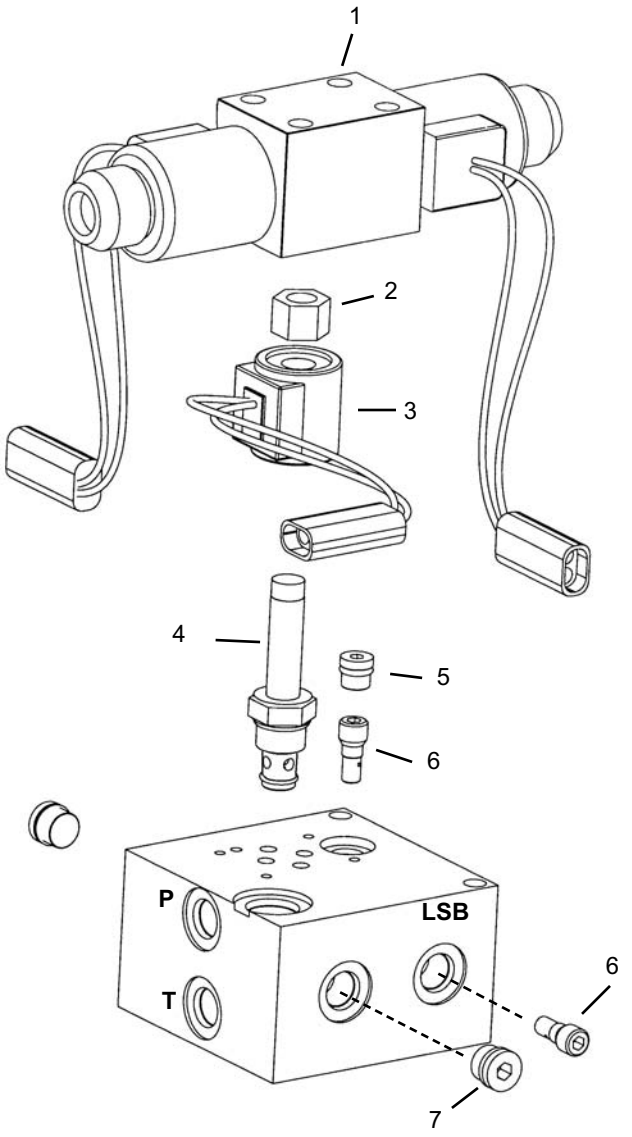


Ref. No.	Part No.	Description	Qty. Req.
00	814462	SAHR/ACCUM CHARGE VALVE . . 1 *(includes items 1-4)*	
01	809152	3-WAY 2 POSITION VALVE . . . . . 1 *(includes item 4)*	
	809153	SEAL KIT 1	
02	814531	NEEDLE VALVE 1	
	809156	SEAL KIT 1	
03	814530	3-WAY 2 POSITION VALVE . . . . . 1 *(includes item 4)*	
	809153	SEAL KIT 1	
04	809151	COIL/WEATHERPAK 12VDC 1	
05	814463	PRESSURE SWITCH . . . . . 1 *(Not included with valve.)*	

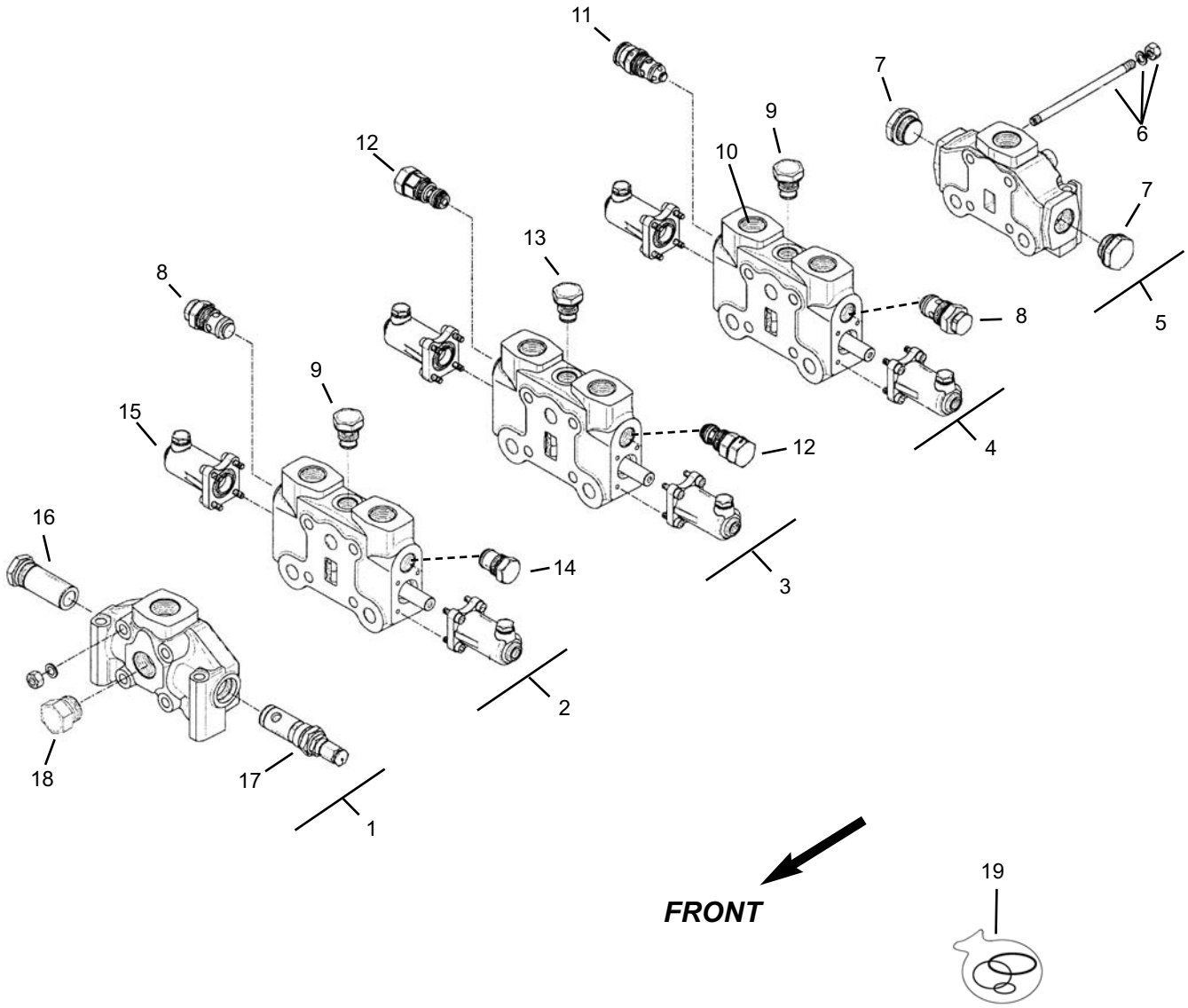


Ref. No.	Part No.	Description	Qty. Req.
00	808877	STEER SELECT VALVE *(compl.)*. . 1 *(includes items 1and 2)*	
01	814532	WEATHER PAK VALVE. 1	
02	NSS	MANIFOLD 1	

Ref. No.	Part No.	Description	Qty. Req.
		-- ITEMS NOT SHOWN --	
00	809272	WIRE HARNESS . . . . . 2 *(connects wire leads to frame wiring)*	



Ref. No.	Part No.	Description	Qty. Req.
00	814488	LEVEL VALVE . . . . . 1 *(includes all parts shown.)*	
01	814533	VALVE, WEATHERPAK. 1	
	814534	SEAL KIT 1	
02	NSS	NUT . . . . . 2 *(included with item 4.)*	
03	809151	COIL, WEATHERPAK 12VDC. 1	
04	814535	2 WAY SOLENOID VALVE . . . . . 1 *(includes item 2.)*	
	809156	SEAL KIT 1	
05	809155	PLUG -4 NWD. 1	
06	814536	SHUTTLE VALVE 2	
07	814537	PLUG -6 NWD. 2	


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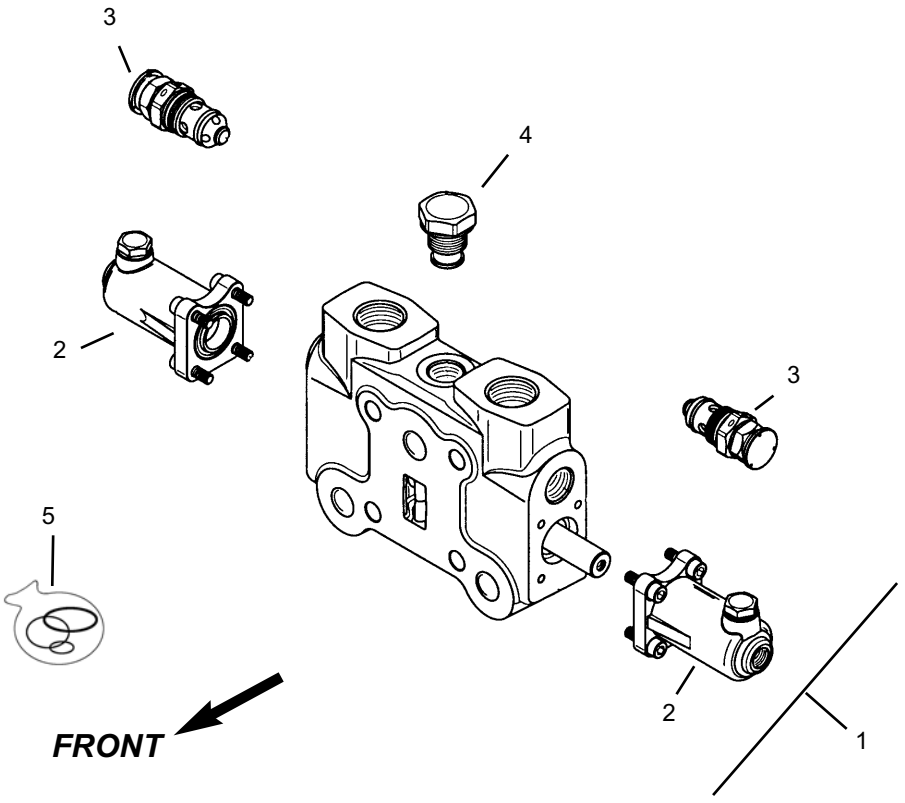
Ref. No.	Part No.	Description	Qty. Req.
00		MAIN CONTROL VALVE *(complete)*	1
	814492	*Note a - (shown)*	
	814493	*Note b - (not shown)*	
	808362	INLET SECTION	1
		(includes items 16-18)	
	808371	SECTION SEAL KIT *(not shown)*	1
02	808365	WORK SECTION *(lift)*	1
		(includes items 8,9,14,15)	
	808373	SECTION SEAL KIT *(not shown)*	1
03	8808366	WORK SECTION *(tilt)*	1
		(includes items 12-13)	
	808374	SECTION SEAL KIT *(not shown)*	1
04	808364	WORK SECTION *(boom in/out)*	1
		(includes items 8-11)	
	808372	SECTION SEAL KIT *(not shown)*	1
05	808369	OUTLET SECTION	1
		(includes item 7)	
06[c]		TIE ROD KIT	4
		(includes 1 bolt, 2 nuts & 2 washers)	
	814538	(*Three-section valve)*	
	808367	*(Four-section valve)*	
07	808375	PLUG	2
08	808354	ANTI-CAVITATION VALVE	AR
09	808360	CHECK VALVE	AR
10	814397	WORK PORT RESTRICTOR	1
11	808356	ANTI-SHOCK VALVE *(210 bar)*	1
12	808353	COMBINATION VALVE *(210 bar)*	2
13	814539	CHECK VALVE	1
14	808355	PLUG KIT	1
15	808361	CONTROL KIT	AR
16	808358	PLUG KIT	1
17	808357	PILOT RELIEF VALVE *(210 bar)*	1
18	808359	PLUG KIT, 1-5/16”-12 UNF	1
19[d]	814540	COMPLETE SEAL KIT *(Note c)*	1

a *Does not include auxiliary hydraulics valve section.*

b *Includes auxiliary hydraulics valve section (not shown). Refer to next page for auxiliary hydraulics work section information.*

c *Order (4) tie rod kits to replace all four studs, eight nuts and eight washers.*

d *Items included with seal kit are not shown in detail. For four-section valves, order seal kits: (1) 814540 main valve seal kit and (1) 808392 auxiliary section seal kit.*


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Ref. No.	Part No.	Description	Qty. Req.
01	814496	AUXILIARY HYD. WORK SECT. . . .1 *(includes items 1-4)*	
02[a]	808361	HYDRAULIC CONTROL KIT 2	
03[c]	808391	ANTI-SHOCK VALVE 1	
04[c]	808360	CHECK VALVE 1	
05[b]	808392	SEAL KIT 1	

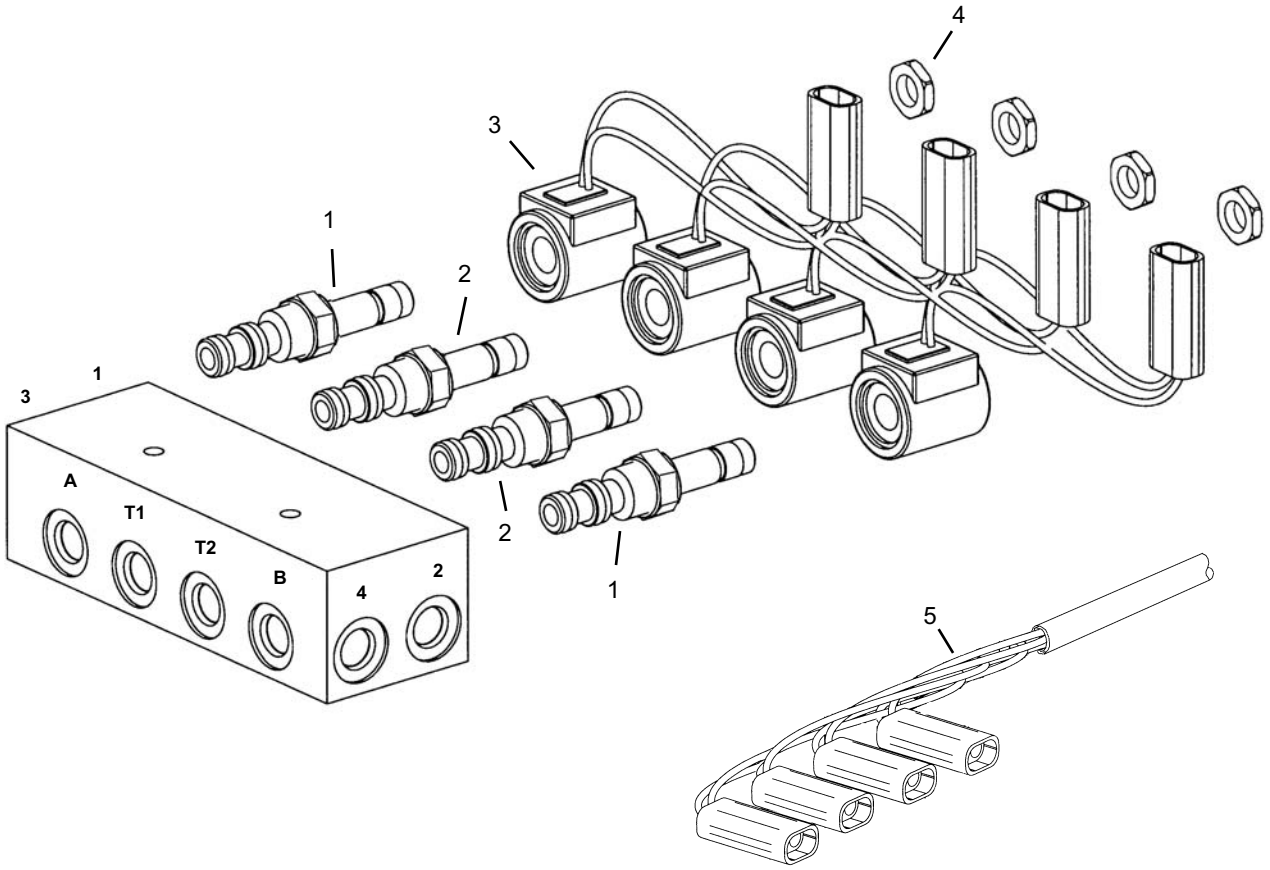
Ref. No.	Part No.	Description	Qty. Req.
		-- ITEMS NOT SHOWN --	
00	808367	TIE ROD KIT *(4-section valve)* . . . .4 *(includes one tie rod, two nuts and two washers)*	

a *Includes outer caps, o-rings, bolts, plug and internal spool spring for the work section, does not include o-rings for valves/plugs or the spool.*

b *Items included with seal kit are not shown in detail.*

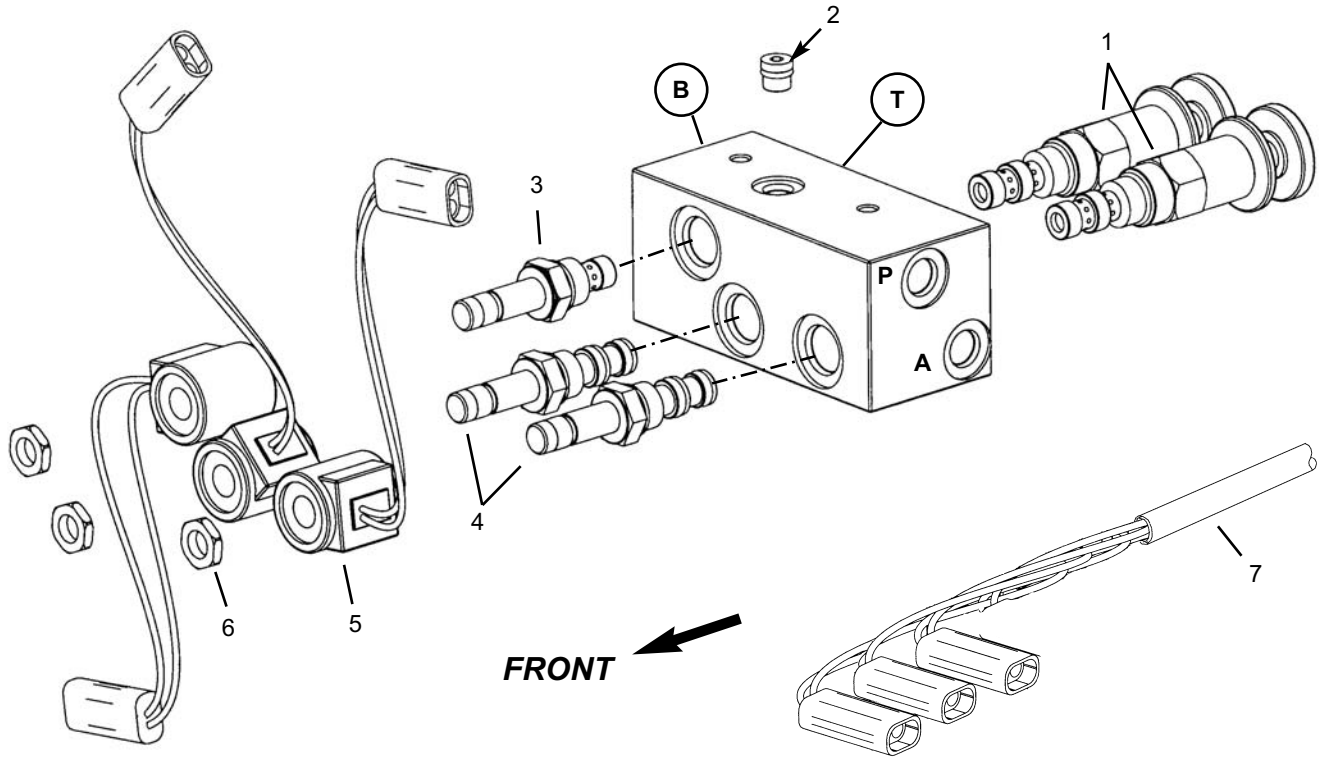
c *Seals and o-rings for the valve are not sold individually, however they are included with the work sec tion seal kit where the valve is used.*

Pilot Manifold - Dual-Function (Two-Button)



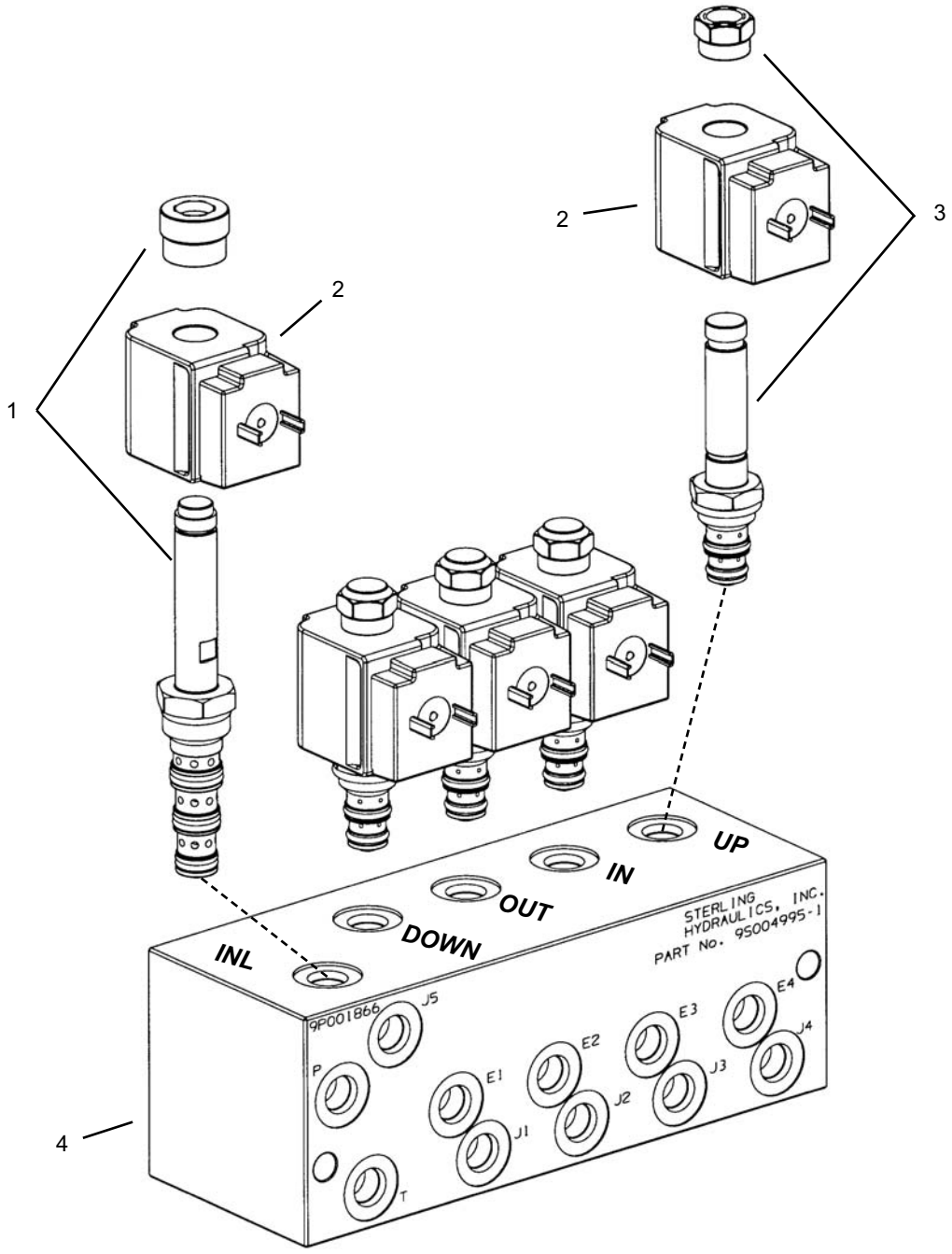
Ref. No.	Part No.	Description	Qty. Req.
00	814508	PILOT APPLY MANIFOLD . . . . . *a* *(Includes all items except item 5)*	
01	809152	VALVE, 3-WAY 2-POSITION . . . . . 2 *(Includes item 4)*	
	809153	SEAL KIT, 3-WAY VALVE 2	
02	809277	VALVE, 3-WAY 2-POSITION . . . . . 2 *(Includes item 4)*	
	809153	SEAL KIT, 3-WAY VALVE 2	
03	809151	COIL, WEATHERPAK 12VDC 4	
04	NSS	NUT . . . . . 4 *(included with items 1 and 2)*	
05	814541	WIRE HARNESS, TILT CONTROL . 1	

a *Units equipped with auxiliary hydraulics use two pilot apply manifolds.*



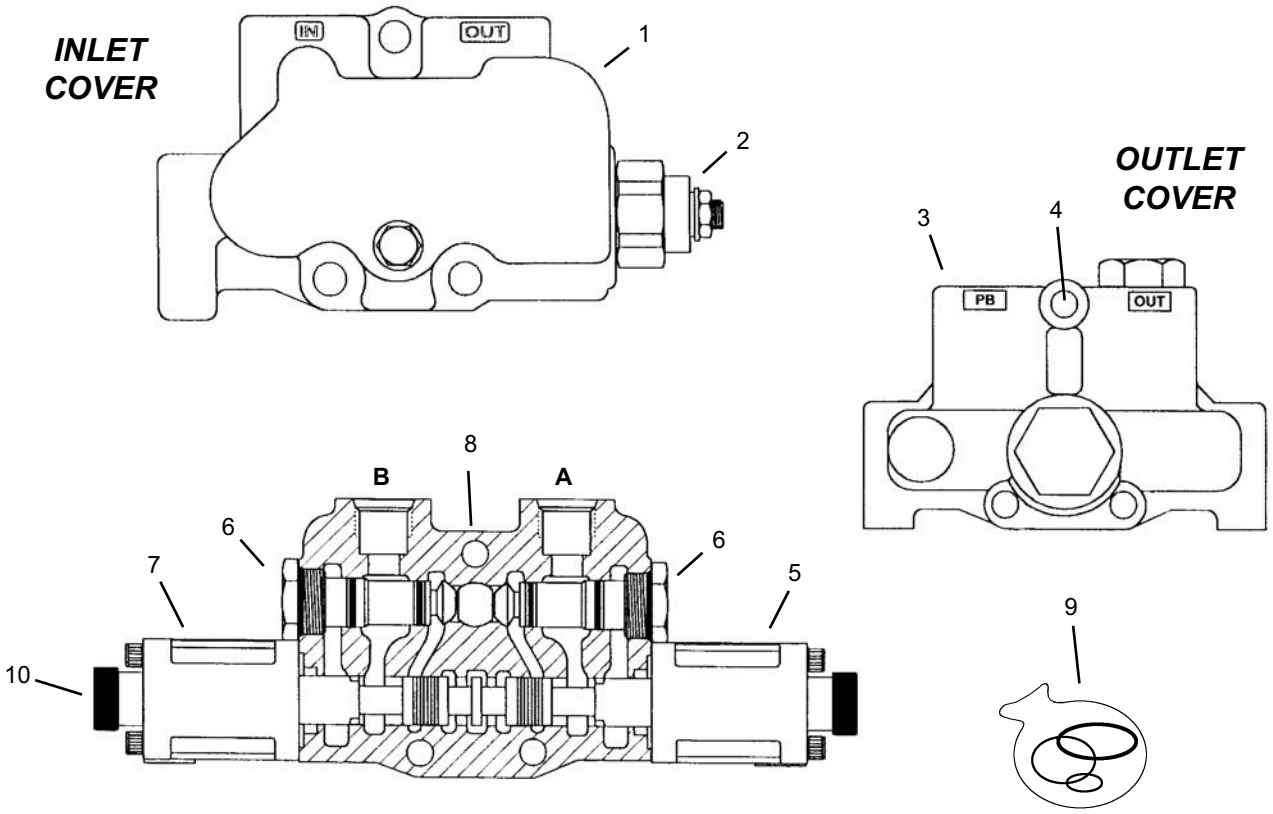
Ref. No.	Part No.	Description	Qty. Req.
00	814502	PILOT APPLY MANIFOLD . . . . . *a* *(includes all items except item 7)*	
01	814542	PRESSURE CONTROL	2
	809153	SEAL KIT	2
02	809155	PLUG -4 NWD STYLE	1
03	814543	VALVE, 2 WAY . . . . . *(includes item 6)*	1
	814544	SEAL KIT, 2-WAY VALVE	1
04	809152	VALVE, 3-WAY 2- POSITION . . . . . *(includes item 6)*	2
	809153	SEAL KIT, 3-WAY VALVE	2
05	809151	COIL, WEATHERPAK 12VDC	3
06	NSS	NUT . . . . . *(included with items 3 and 4)*	3
07	814545	WIRE HARNESS, TILT CONTROL .	1

a *Units equipped with auxiliary hydraulics use two pilot apply manifolds.*


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STERLING HYDRAULICS, INC.
PART No. 95004995-1
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E4
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J2
J3
J4
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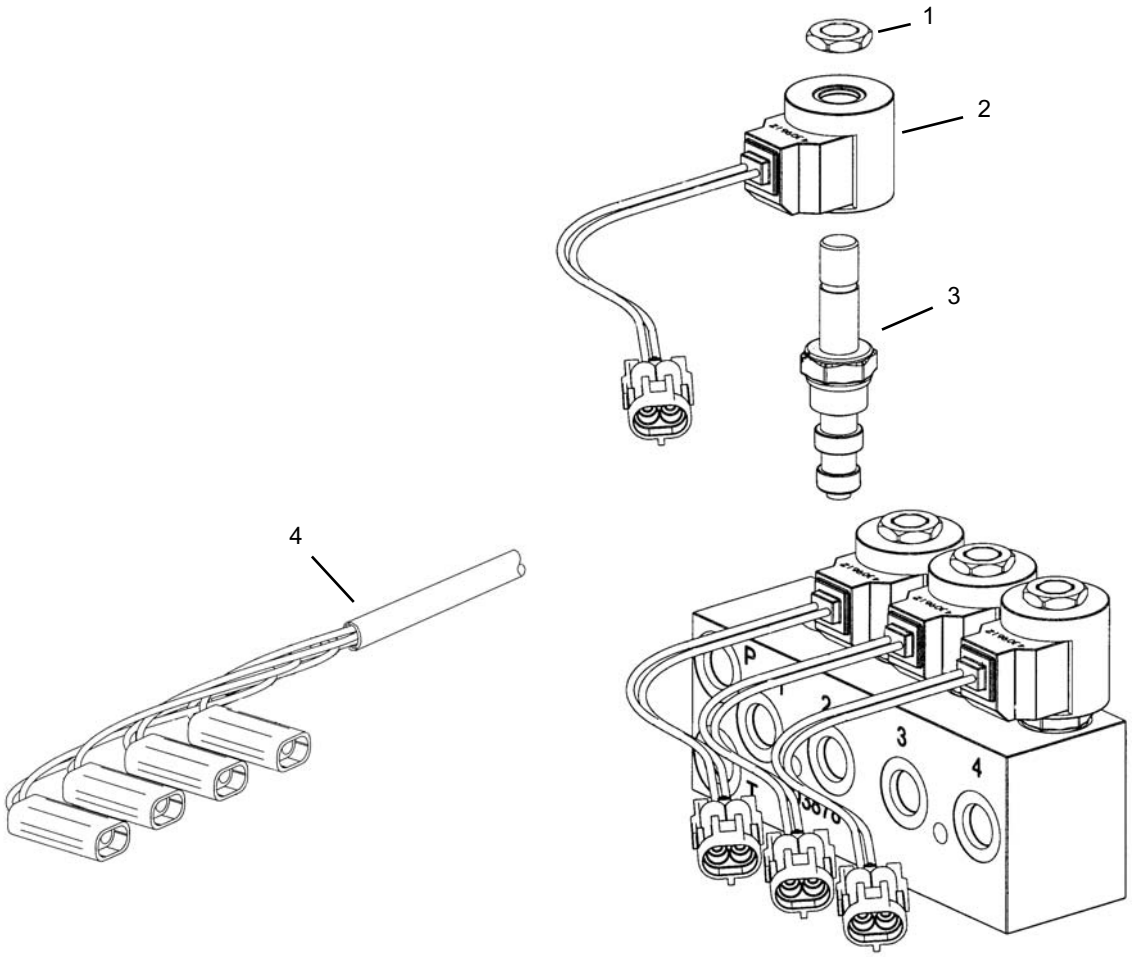
Ref. No.	Part No.	Description	Qty. Req.
00	809732	RADIO REMOTE MANIFOLD	1
		(includes all items shown and listed)	
01	809733	2/4 WAY SOLENOID VALVE	1
	809734	SEAL KIT FOR VALVE	1
02	809735	12 VDC COIL (DIN CONN.)	5
03	809736	PROPORTIONAL PRESS. VALVE	4
	809737	SEAL KIT FOR VALVE	AR
04	NSS	MANIFOLD	1

Ref. No.	Part No.	Description	Qty. Req.
		-- ITEMS NOT SHOWN --	
00	809738	SHUTTLE VALVE	4
	809739	SEAL KIT FOR VALVE	AR

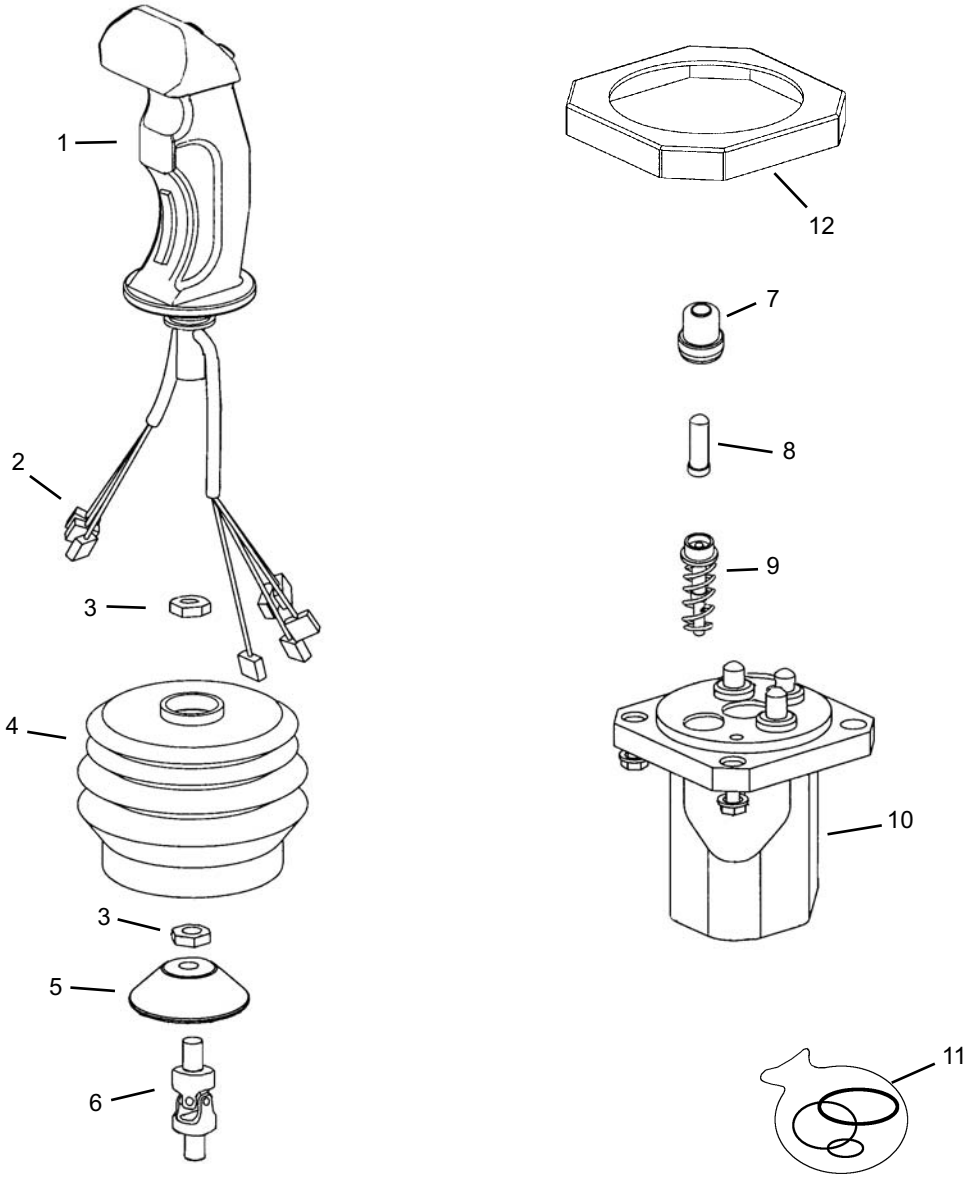

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Ref. No.	Part No.	Description	Qty. Req.
00	814512	OUTRIGGER VALVE *(complete)*	1
01	814546	INLET COVER HOUSING	1
02	809398	RELIEF CARTRIDGE	1
	809620	RELIEF SEAL KIT	1
03	814547	OUTLET COVER HOUSING	1
04	814548	STUD ASSEMBLY KIT	1
05[a]	809402	HRO ACTUATOR “A” PORT	2
	814549	SEAL KIT, ACTUATOR	AR
06	809400	LOAD CHECK PLUG	4
07[a]	809401	HRO ACTUATOR “B” PORT	2
	814549	SEAL KIT, ACTUATOR	AR
08	814550	WORK SECTION *(includes 5-7)*	2
09[a]	809397	SECTION SEAL KIT	1
10	814552	DUST BOOT	AR

a *Items in seal kits are not shown*

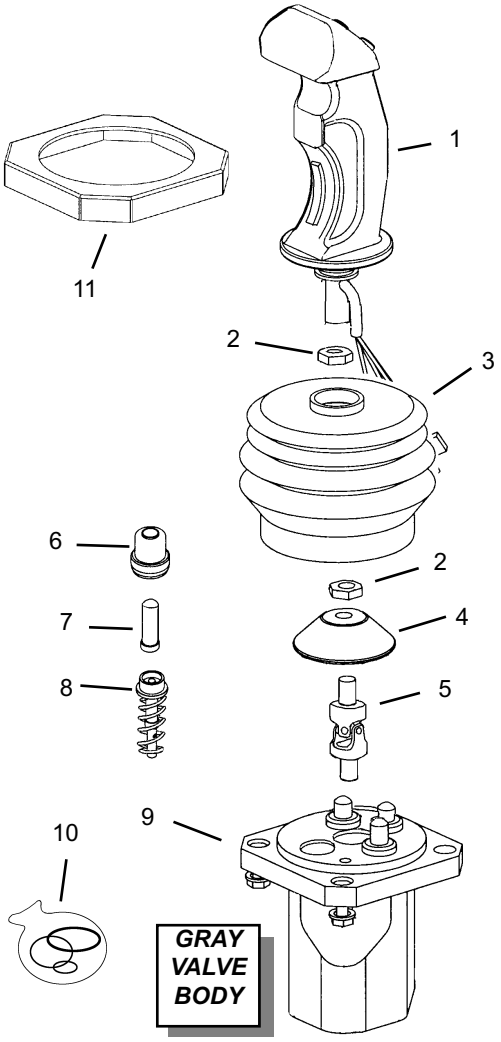

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Ref. No.	Part No.	Description	Qty. Req.
00	814514	OUTRIGGER MANIFOLD *(compl.)* *(includes items 1-3)*	1
01	NSS	NUT, SOLENOID VALVE *(included with item 3)*	4
02	814553	E-COIL 12VDC	4
03	814530	VALVE *(includes item 1)*	4
04	814554	OUTRIGGER WIRE HARNESS	1


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Ref. No.	Part No.	Description	Qty. Req.
00	814555	JOYSTICK 4-BUTTON/TRIGGER	1
01	814556	HANDLE W/4 BUTTONS	1
02	814557	WIRE CONNECTOR	8
03	814558	NUT M10 UNI	2
04	814559	RUBBER BOOT	1
05	814560	SELECTOR DISC	1
06	814561	UNIVERSAL JOINT	1
07	814562	SPINDLE GUIDE ASSEMBLY	4
08	814563	HPV SPINDLE 10 mm	4
09	814564	PILOT SPRING PACK *(CO59 Springs)*	4
10	NSS	BODY ASSEMBLY	1
11[a]	814565	SEAL REPAIR KIT	1
12	814566	BEZEL, JOYSTICK	1

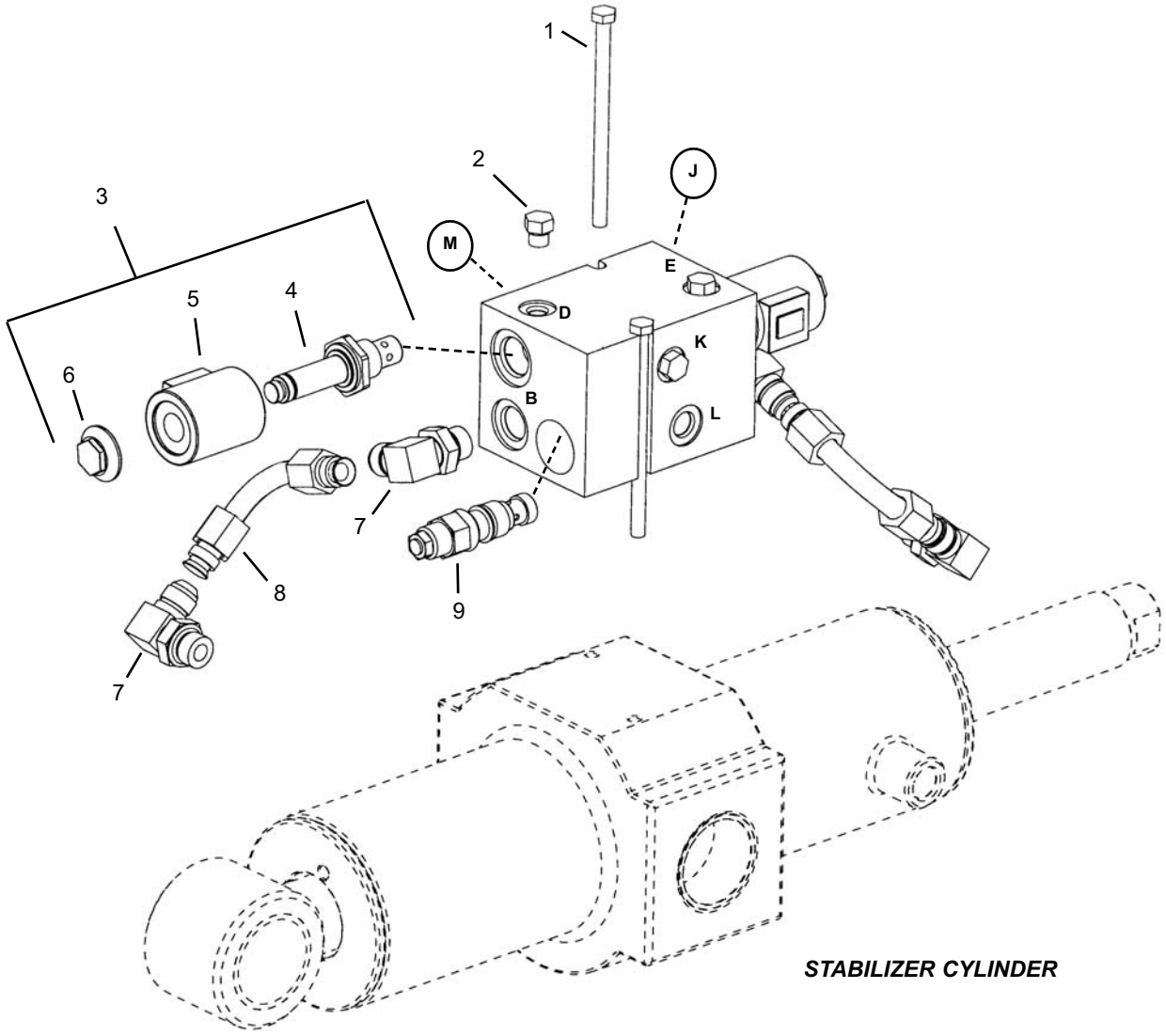
a Items included in the seal kit are not shown.


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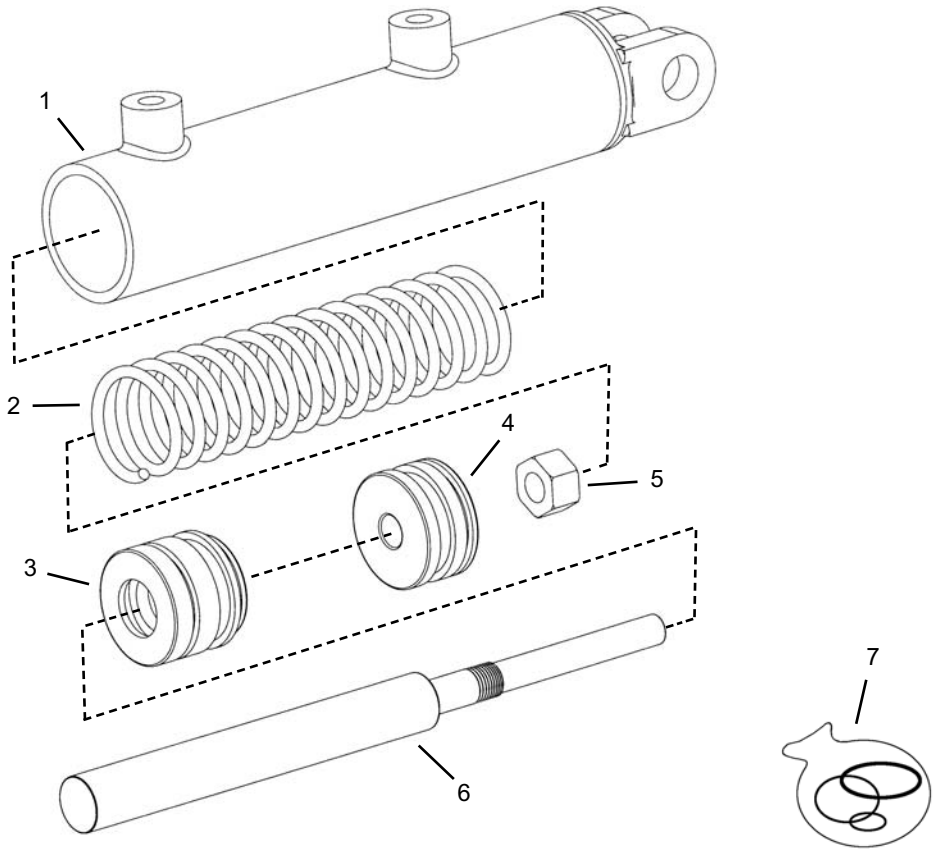
Dual-Function (Two-Button) Controller

Ref. No.	Part No.	Description	Qty. Req.
00	814567	JOYSTICK 2-BUTTON	1
01	814568	HANDLE W/TW0 BUTTONS	1
02	814558	NUT M10 UNI	2
03	814559	RUBBER BOOT	1
04	814560	SELECTOR DISC	1
05	814561	UNIVERSAL JOINT	1
06	814562	SPINDLE GUIDE ASSEMBLY	4
07	814569	HPV SPINDLE 10 mm	4
08	814564	PILOT SPRING PACK *(CO59 Springs)*	4
09	NSS	BODY ASSEMBLY	1
10[a]	814565	SEAL REPAIR KIT	1
11	814566	BEZEL, JOYSTICK	1

a *Items included in the seal kit are not shown.*

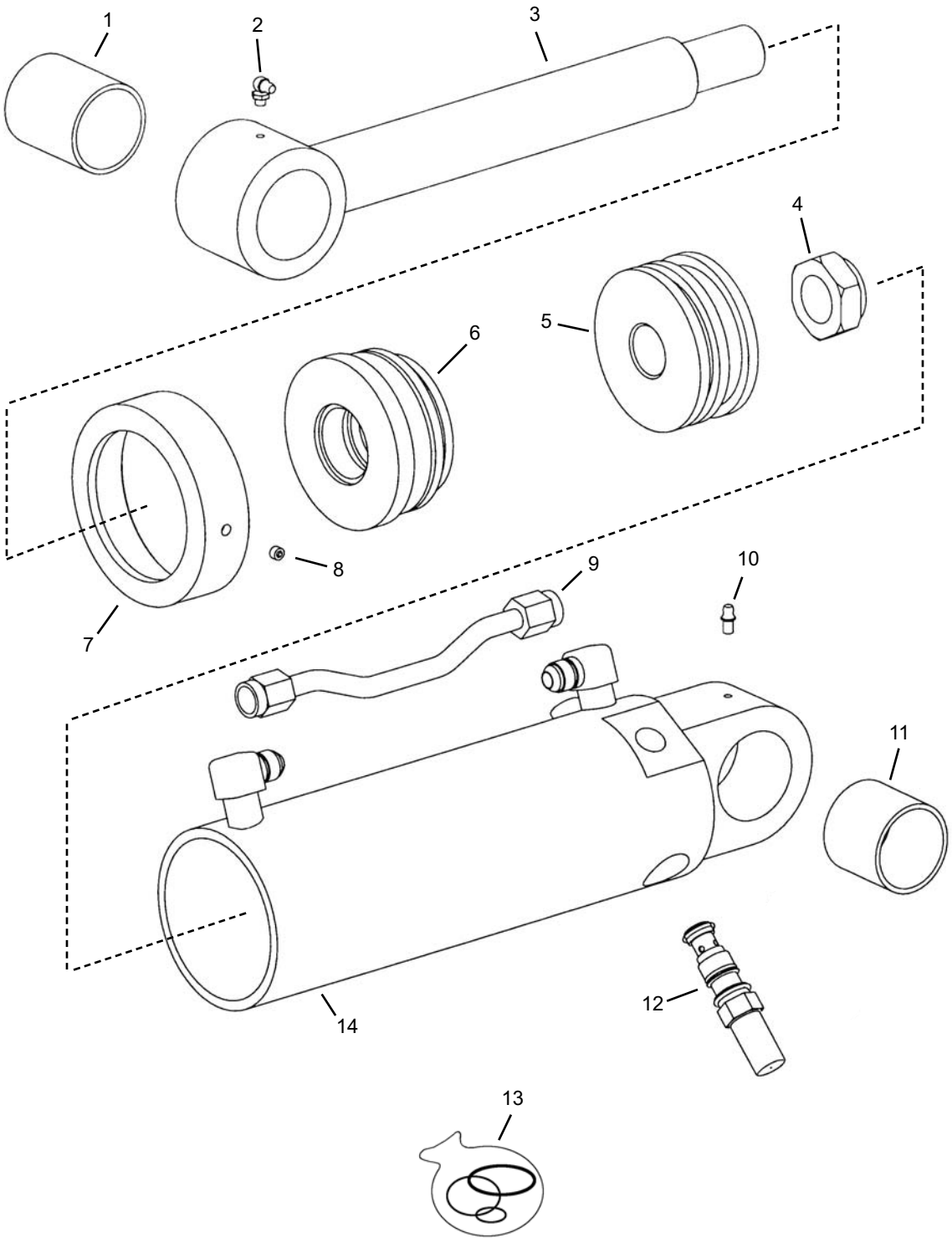


Ref. No.	Part No.	Description	Qty. Req.
00	814527	STABILIZER MANIFOLD *(compl.)* *(includes items 2-6 and 9)*	1
01	814570	5/16"-18 x 3-3/4" BOLT	2
02	814300	PLUG -4ORM	3
03	814571	VALVE, 2-WAY *(includes items #4-6)*	2
04	814572	CARTRIDGE *(only)*	2
	809154	SEAL KIT, CARTRIDGE	1
05	814573	COIL, WEATHERPAK 12VDC	2
	814574	SEAL KIT, COIL *(fits both PN's)*	
06	814575	NUT *(included with item 5)*	2
07	814308	ADAP., -8ORM -8JICM 90º	4
08	814576	TUBE, STABILIZER CYLINDER	2
09	809618	COUNTER BAL. VALVE 3700*(psi)*	2
	808965	CBV SEAL KIT	1



Ref. No.	Part No.	Description	Qty. Req.
00	814253	HYDRAULIC LOCK CYLINDER	2
01	NSS	CYLINDER TUBE WELDMENT	1
02	814577	DIE SPRING, MED 2” x 3.69” x 8”	1
03	814578	HEAD GLAND	1
04	814579	PISTON	1
05	814580	9/16”-18 UNF LOCKNUT	1
06	814581	CYLINDER ROD	1
07[a]	814582	SEAL KIT	1

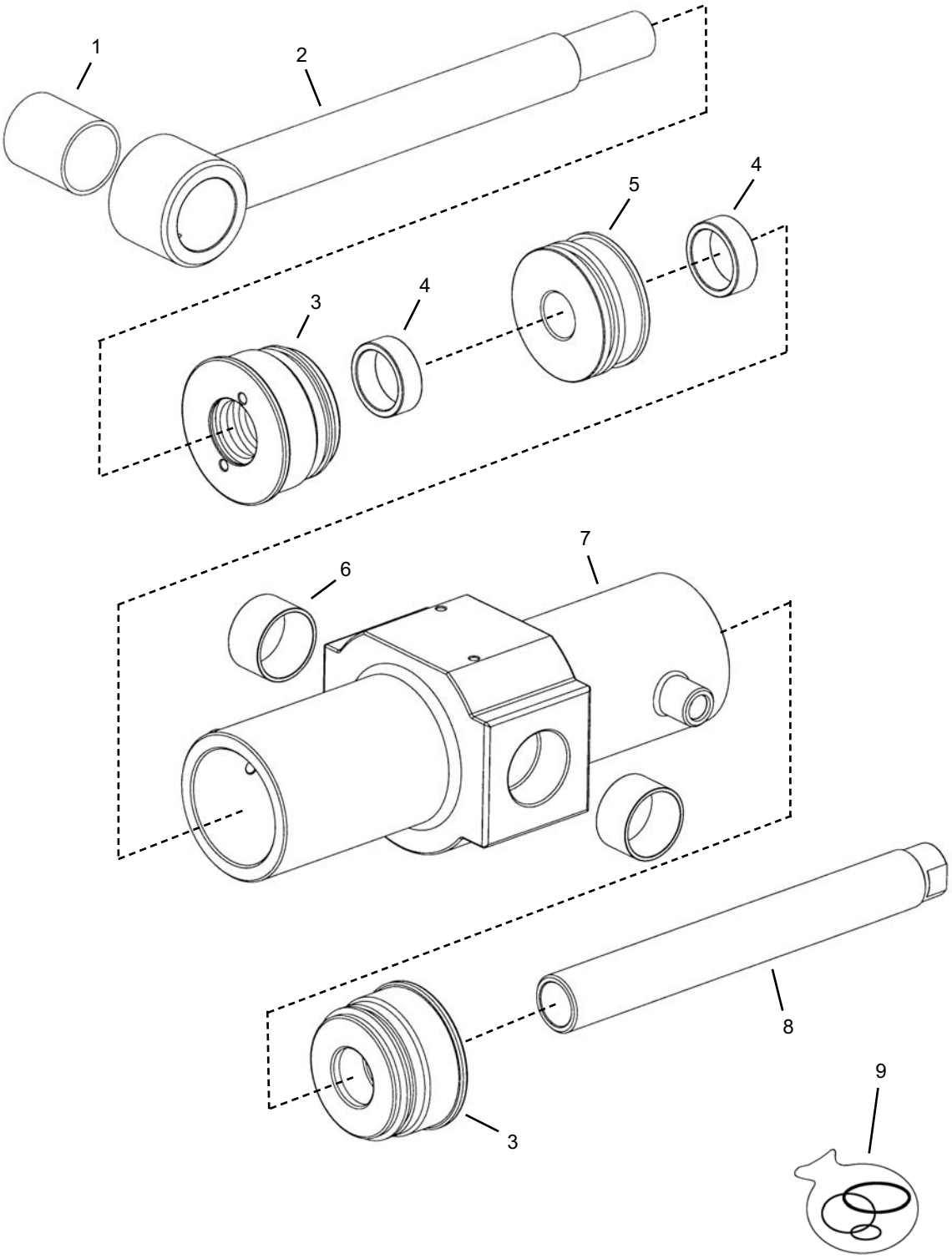
a *Items included in seal kit are not shown.*


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Frame Level Cylinder

Ref. No.	Part No.	Description	Qty. Req.
00	809513	FRAME LEVEL CYLINDER	1
01	808708	BUSHING 2.0X2.25X2.5”	1
02	808423	1/4”-28 GREASE ZERK STR	1
03	809059	ROD WELDMENT	1
04	809128	1-1/4”-12 UNF LOCKNUT	1
05	809068	PISTON	1
06	809061	HEAD GLAND	1
07	809067	HEAD GLAND CAP	1
08	809136	5/16”-18 x 1/4” SET SCREW	1
09	809062	OIL LINE TUBE ASSEMBLY	1
10	808424	1/4”-28 GREASE ZERK	1
11	808756	BUSHING 2.0” x 2.25” x 2.0”	1
12	809618	COUNTER BALANCE VALVE	2
	808965	SEAL KIT (CBV)	1
13[a]	809060	CYLINDER SEAL KIT	1
14	NSS	CYLINDER TUBE WELDMENT	1

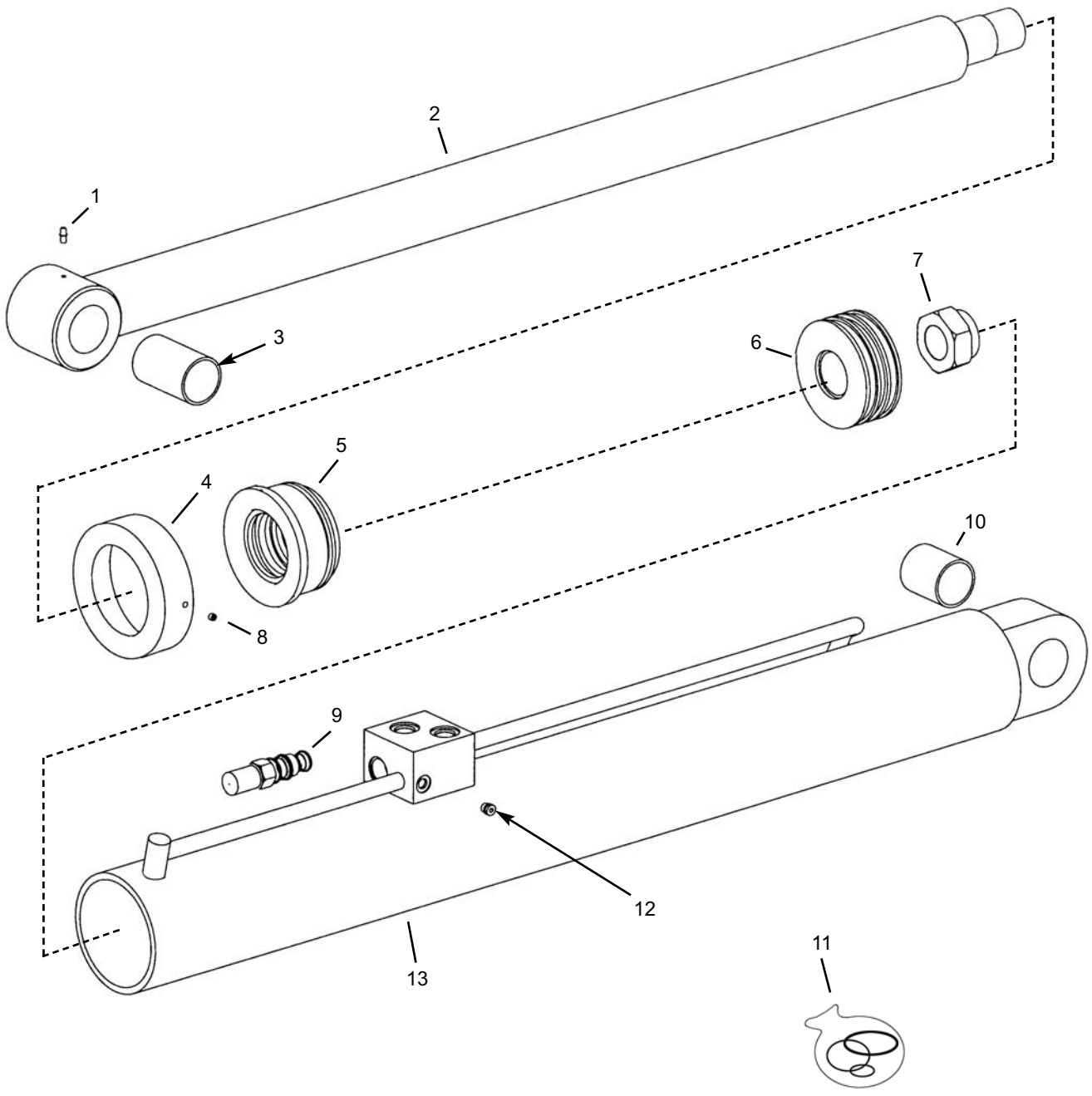
a *Items included in the seal kit are not shown.*


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Frame Stabilizer Cylinder

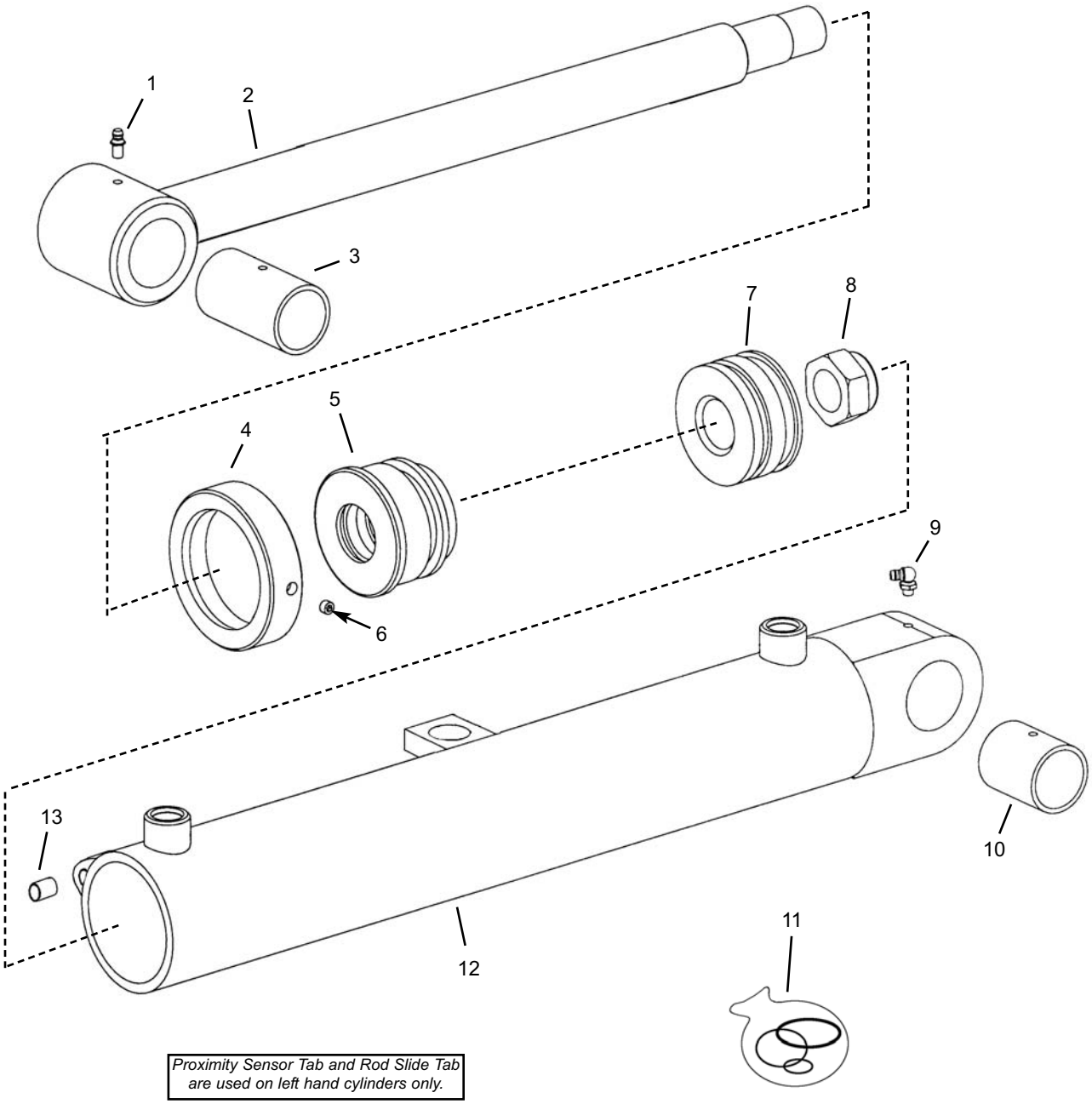
Ref. No.	Part No.	Description	Qty. Req.
00	814524	FRAME STABILIZER CYLINDER	1
01	808858	BUSHING	1
02	809158	ROD WELDMENT	1
03	809159	HEAD GLAND	2
04	814583	ROD SPACER	2
05	809160	PISTON	1
06	808878	BUSHING	2
07	NSS	TUBE WELDMENT	1
08	814584	CYLINDER ROD	1
09[a]	809161	CYLINDER SEAL KIT	1

a *Items included in the seal kit are not shown.*


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Ref. No.	Part No.	Description	Qty. Req.
00		BOOM LIFT CYLINDER *(right)*	1
	814289	*Note a*	
	814290	*Note b*	
		BOOM LIFT CYLINDER *(left)*	1
	814298	*Note a*	
	814299	*Note b*	
01	808424	1/4”-28 GREASE ZERK	1
02		ROD WELDMENT	1
	814585	*Note a*	
	814586	*Note b*	
03	814296	BUSHING *(rod end)*	1
04		HEAD GLAND CAP	
	814587	*Note a*	
	809135	*Note b*	
05		HEAD GLAND	1
	814588	*Note a*	
	814589	*Note b*	
06		PISTON	1
	814592	*Note a*	
	814593	*Note b*	
07	809104	1-3/4”-12 UNF LOCKNUT	1
08	809136	5/16”-18 x 1/4” SET SCREW	1
09	808907	CBAL VALVE	1
	808955	CB VALVE SEAL KIT	1
10	808858	BUSHING (BASE END)	1
11[C]		CYLINDER SEAL KIT	1
	814590	*Note a*	
	814591	*Note b*	
12	809155	PLUG -4	1
13	NSS	CYLINDER TUBE WELDMENT	1

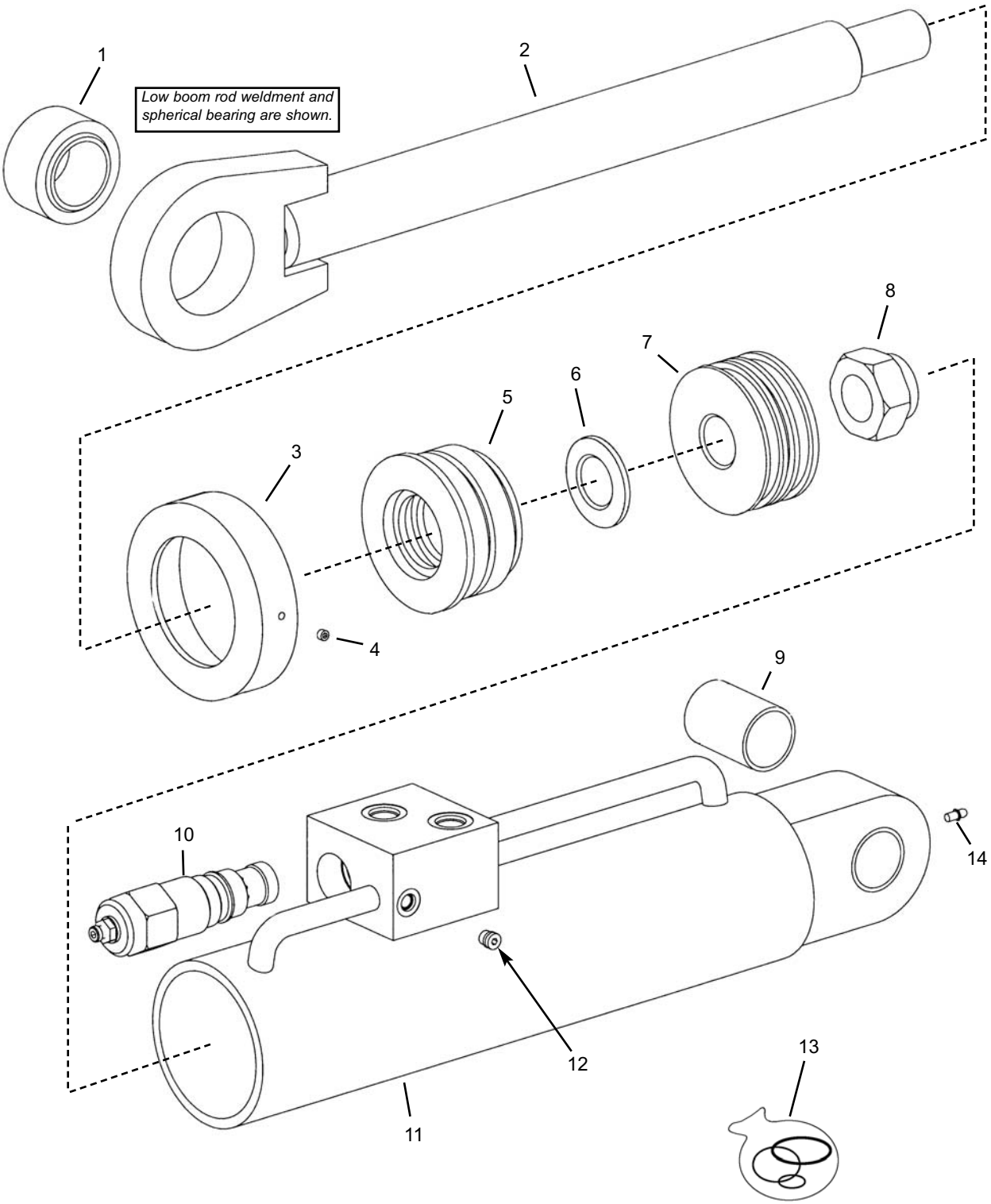
* *Items included in the seal kit are not shown.*



Proximity Sensor Tab and Rod Slide Tab are used on left hand cylinders only.

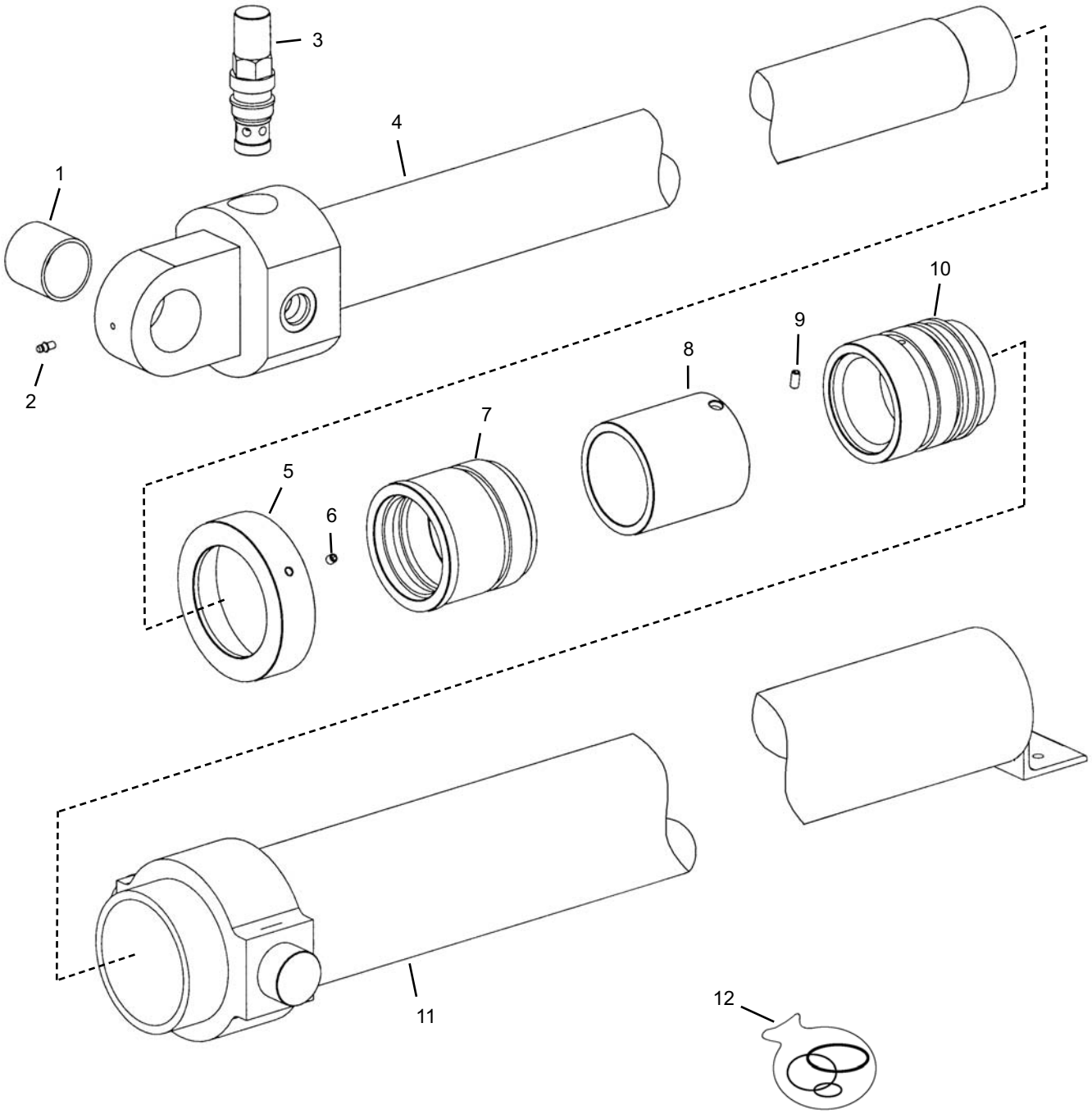
Ref. No.	Part No.	Description	Qty. Req.
00		SLAVE CYLINDER *(right)*	1
	808860	*Note a*	
	814305	*Note b*	
		SLAVE CYLINDER *(left)*	1
	814316	*Note a*	
	814594	*Note b*	
01	808424	1/4”-28 GREASE ZERK STR	1
02		ROD WELDMENT	1
	809138	*Note a*	
	814595	*Note b*	
03	808709	BUSHING *(rod end)*	1
04		HEAD GLAND CAP	1
	809067	*Note a*	
	814596	*Note b*	
05		HEAD GLAND	1
	809139	*Note a*	
	809636	*Note b*	
06	809136	5/16”-18 x 1/4” SET SCREW	1
07		PISTON	1
	809137	*Note a*	
	814597	*Note b*	
08[a]	814598	1-3/8”-12 UNF LOCKNUT	1
08[b]	809128	1-1/4”-12 UNF LOCKNUT	1
09	808423	1/4”-28 GREASE ZERK 90º	1
10	809514	BUSHING *(base end)*	1
11		CYLINDER SEAL KIT	1
	809140	*Note a & d*	
	814599	*Note b & d*	
12	NSS	CYLINDER TUBE WELDMENT	1
13[c]	808474	BUSHING *(rod slide tab)*	1

a *Used on all high boom models.*
b *Used on all low boom models.*
c *Used on cylinders 814316 and 814594*
d *Items included in the seal kit are not shown.*


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Low boom rod weldment and spherical bearing are shown.
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Ref. No.	Part No.	Description	Qty. Req.
00		TILT CYLINDER	1
	808859	*Note a*	
	814385	*Note b*	
01		BUSHING	1
	809150	*Note a (bushing)*	
	814600	*Note b (spherical bearing)*	
02		ROD WELDMENT	1
	809148	*Note a (includes bushing L99889)*	
	814601	*Note b*	
03	814602	HEAD GLAND CAP	1
04	814603	5/16”-18 x 5/16” SET SCREW	1
05	809149	HEAD GLAND	1
06	809134	THRUST WASHER	1
07	809147	PISTON	1
08	809104	1-3/4” UNF LOCKNUT	1
09	808857	BUSHING *(base end)*	1
10	808907	COUNTER BALANCE VALVE	1
	808955	CB VALVE SEAL KIT	1
11	NSS	CYLINDER TUBE WELDMENT	1
12	809155	PLUG -4	1
13[c]	809146	CYLINDER SEAL KIT	1
14	808424	1/4”-28 GREASE ZERK STR	1

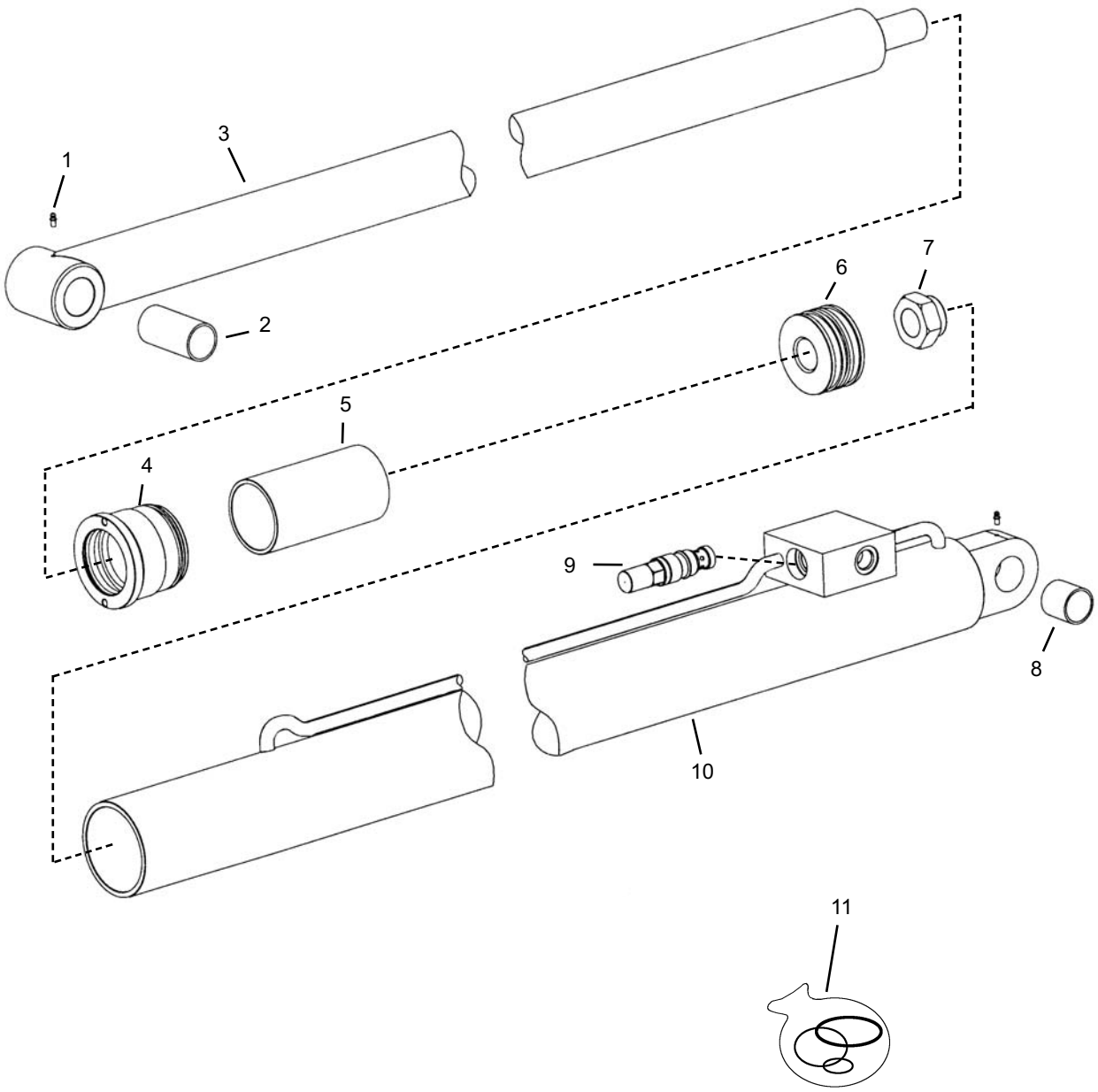
a *Used on all high boom models.*
b *Used on all low boom models.*
c *Items included in the seal kit are not shown.*


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Boom Extend Cylinder - Three-Section Boom

Ref. No.	Part No.	Description	Qty. Req.
00		BOOM EXTEND CYLINDER	1
	814400	*Used with 40' High Boom*	
	814401	*Used with 44' High Boom*	
01	808756	BUSHING *(rod end)*	1
02	808424	1/4"-28 GREASE ZERK	1
03	808903	COUNTER BALANCE VALVE	1
	809162	CBAL VALVE SEAL KIT	1
04		ROD WELDMENT	1
	814604	*Used with 40' High Boom*	
	814605	*Used with 44' High Boom*	
05	814606	HEAD GLAND CAP	1
06	814603	5/16"-18 x 5/16" SET SCREW	1
07	809100	HEAD GLAND	1
08	814607	ROD SPACER	1
09	809143	5/16"-18 x 5/8" SET SCREW	1
10	809142	PISTON	1
11	NSS	CYLINDER TUBE WELDMENT	1
12[a]	809141	CYLINDER SEAL KIT	1

a *Items included in the seal kit are not shown.*


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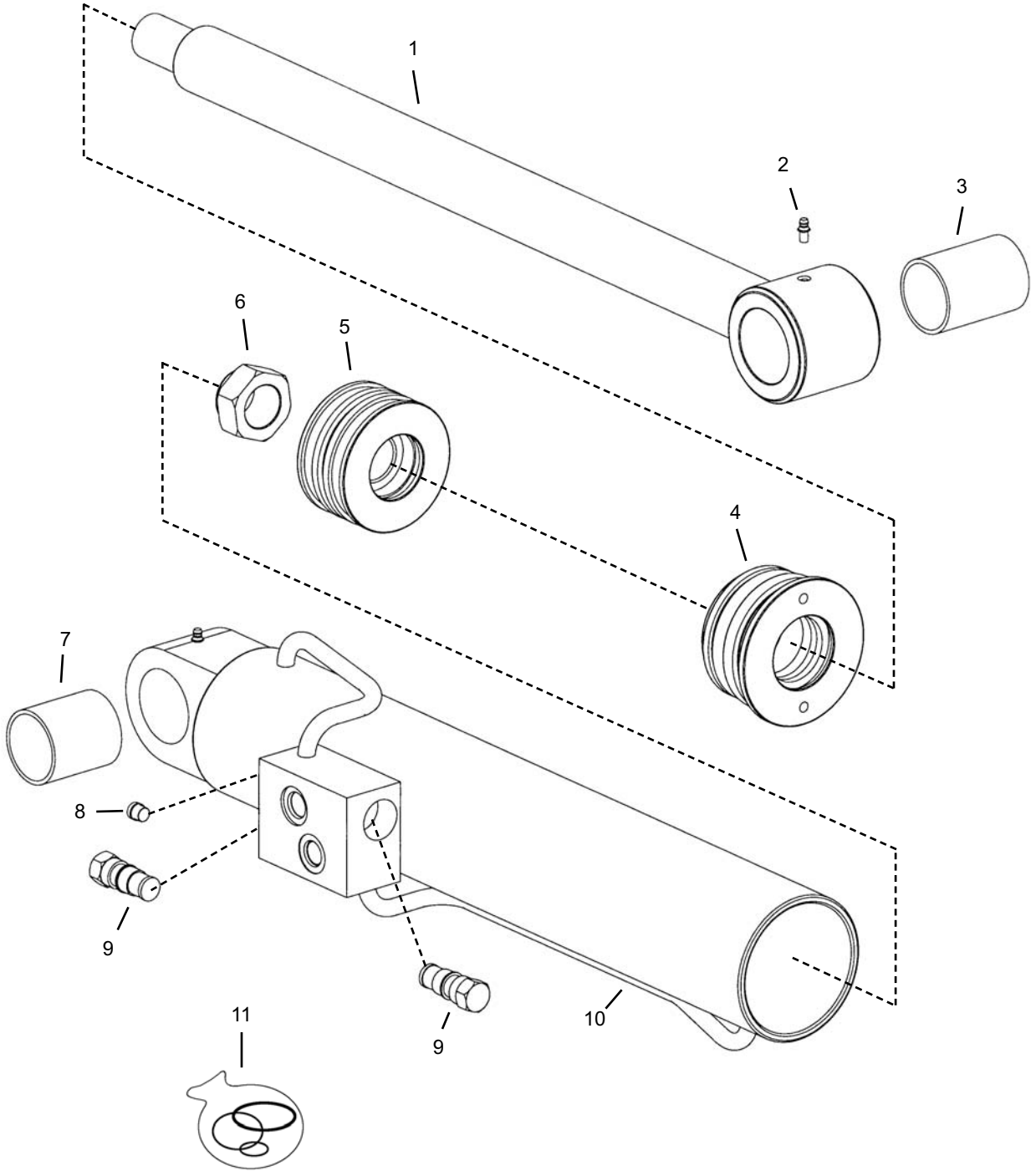
Boom Extend Cylinder - Four-Section Boom

Ref. No.	Part No.	Description	Qty. Req.
00		BOOM EXTEND CYLINDER	1
	814405	*Note a*	
	814409	*Note b*	
01	808424	1/4”-28 GREASE ZERK	2
02	814608	BUSHING *(rod end)*	1
03		ROD WELDMENT	1
	814609	*Note a*	
	814610	*Note b*	
04	814611	HEAD GLAND	1
05		ROD SPACER	1
	814612	*Note a*	
	814613	*Note b*	
06	814614	PISTON	1
07	809104	1-3/4”-12 UNF LOCKNUT	1
08	814615	BUSHING *(base end)*	1
09	808903	COUNTER BALANCE VALVE	1
	809162	CBAL VALVE SEAL KIT	1
10	NSS	CYLINDER TUBE WELDMENT	1
11[c]	814616	CYLINDER SEAL KIT	1

a *Four-Section High Boom*

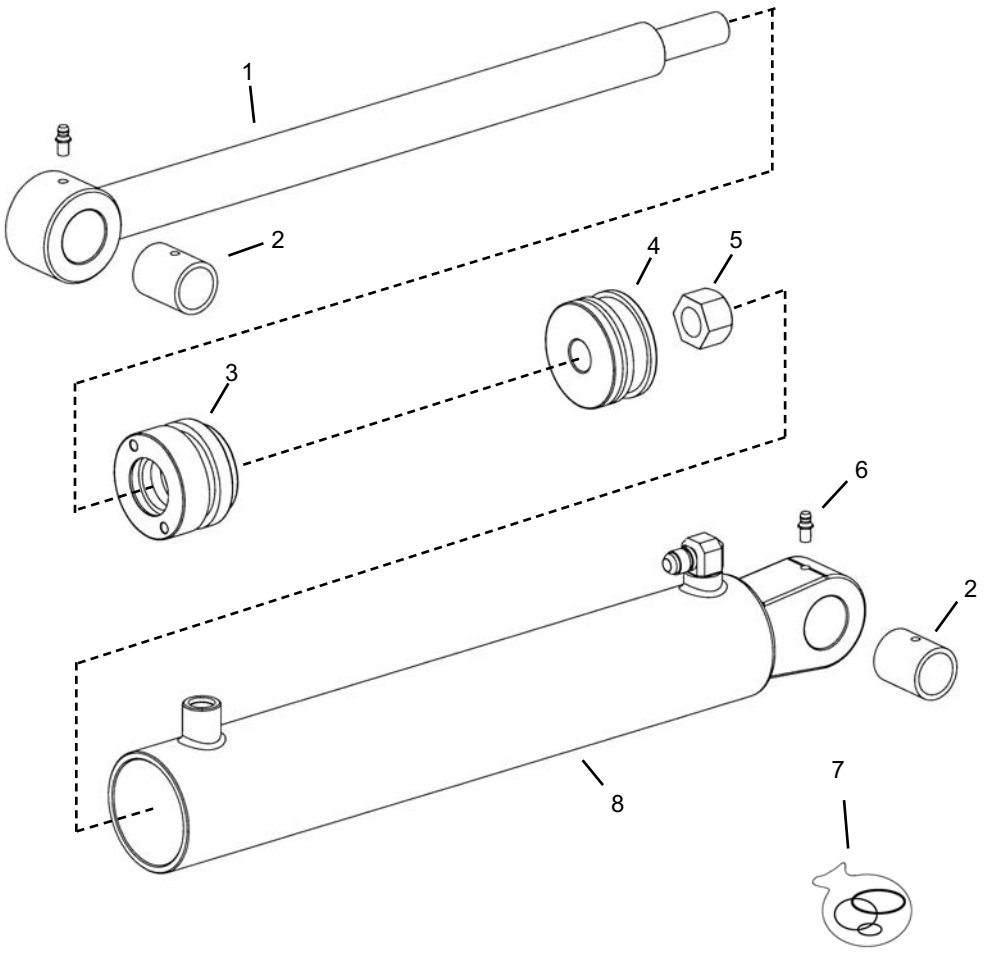
b *Four-Section Low Boom*

c *Items included in the seal kit are not shown.*


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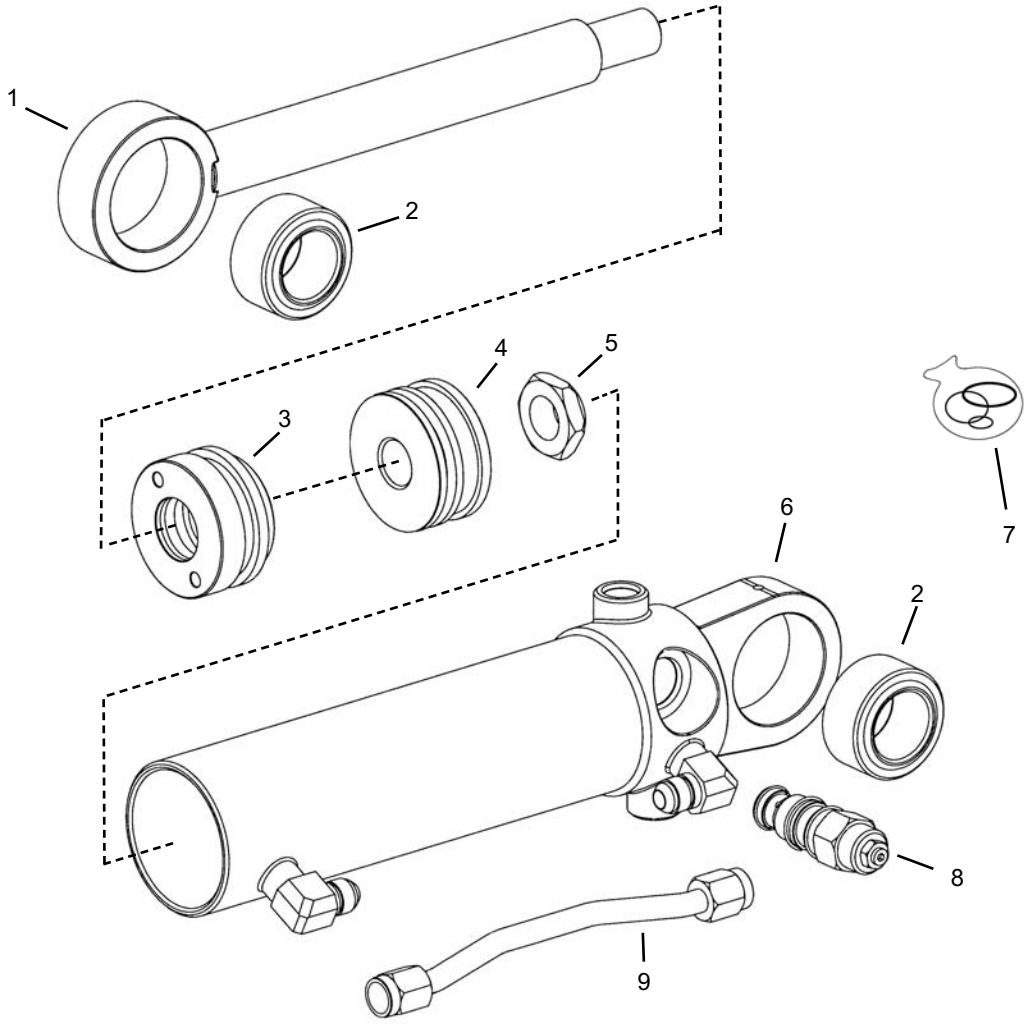
Ref. No.	Part No.	Description	Qty. Req.
00	808910	OUTRIGGER CYLINDER	2
01	809168	ROD WELDMENT	1
02	808424	1/4”-28 GREASE ZERK	2
03	808911	BUSHING *(rod end)*	1
04	809169	HEAD GLAND	1
05	809268	PISTON	1
06	814598	1-3/8”-12 UNF LOCKNUT	1
07	808858	BUSHING *(base end)*	1
08	809155	PLUG, -40RM	1
09	809166	PO CHECK VALVE	2
10	NSS	CYLINDER TUBE WELDMENT	1
11[a]	809167	CYLINDER SEAL KIT	1

a *Items included in the seal kit are not shown.*



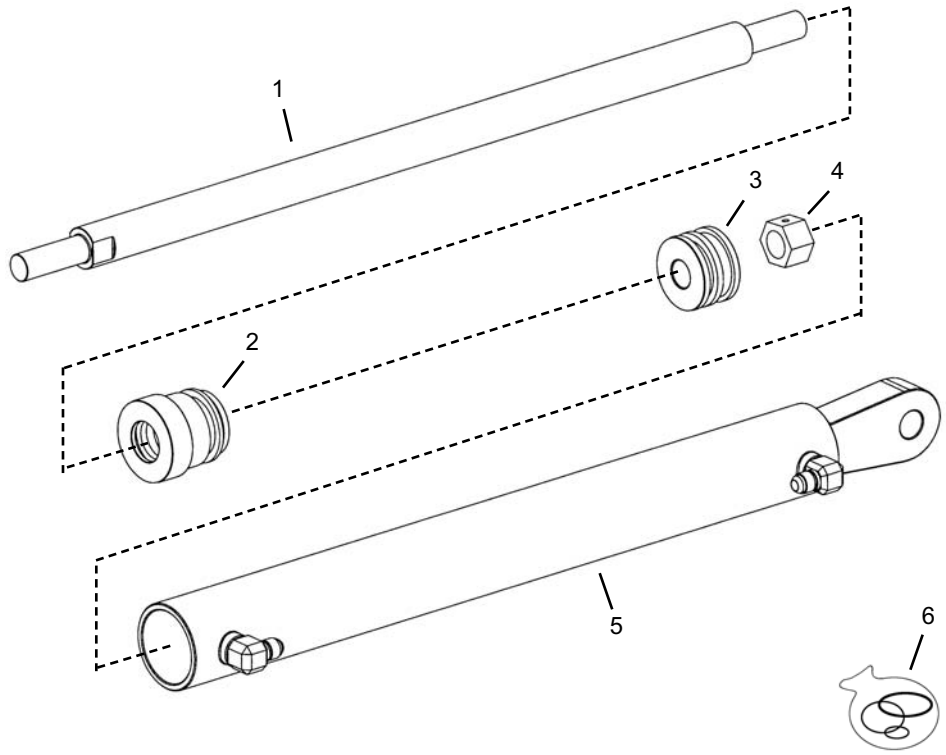
Ref. No.	Part No.	Description	Qty. Req.
00	808738	SWING-CARRIAGE CYLINDER	2
01	809269	ROD WELDMENT	1
02	808720	BUSHING	2
03	809270	HEAD GLAND	1
04	809271	PISTON	1
05	809407	3/4”-16 LOCKNUT	1
06	808424	1/4”-28 GREASE ZERK	2
07[a]	809163	SEAL KIT	1
08	NSS	TUBE WELDMENT	1

a *Items included in the seal kit are not shown.*



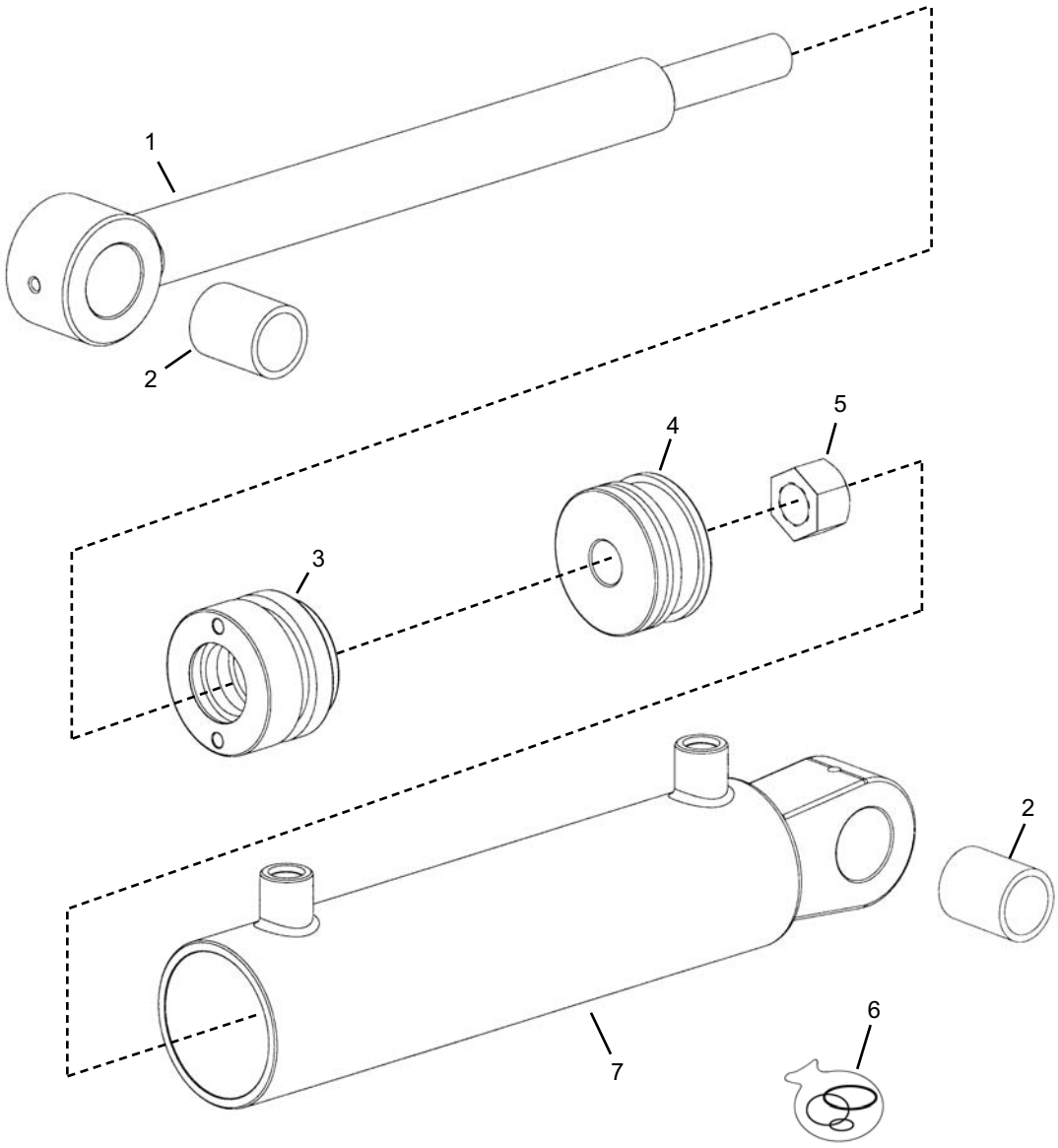
Ref. No.	Part No.	Description	Qty. Req.
00	808918	ROTATE-CARRIAGE CYLINDER	1
01	808502	ROD WELDMENT	1
02	808743	SPHERICAL BEARING	2
03	809101	HEAD GLAND	1
04	808961	PISTON	1
05	808070	1”-14 UNS THIN COL. LOCKNUT	1
06	NSS	TUBE WELDMENT	1
07[a]	808960	SEAL KIT	1
08	808476	CB VALVE *(3000 psi)*	2
	808955	CB VALVE SEAL KIT	1
09	808501	HYDRAULIC LINE ASSEMBLY	1

a *Items included in the seal kit are not shown.*

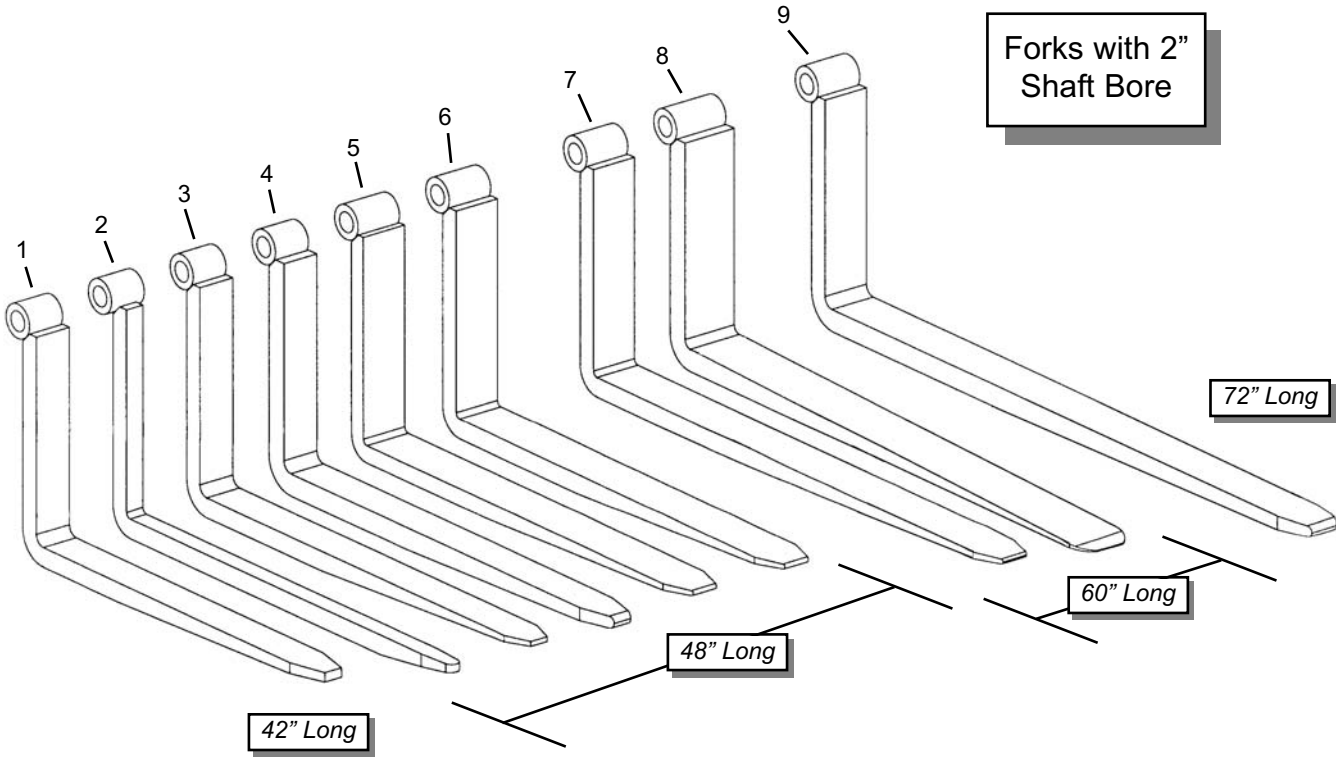


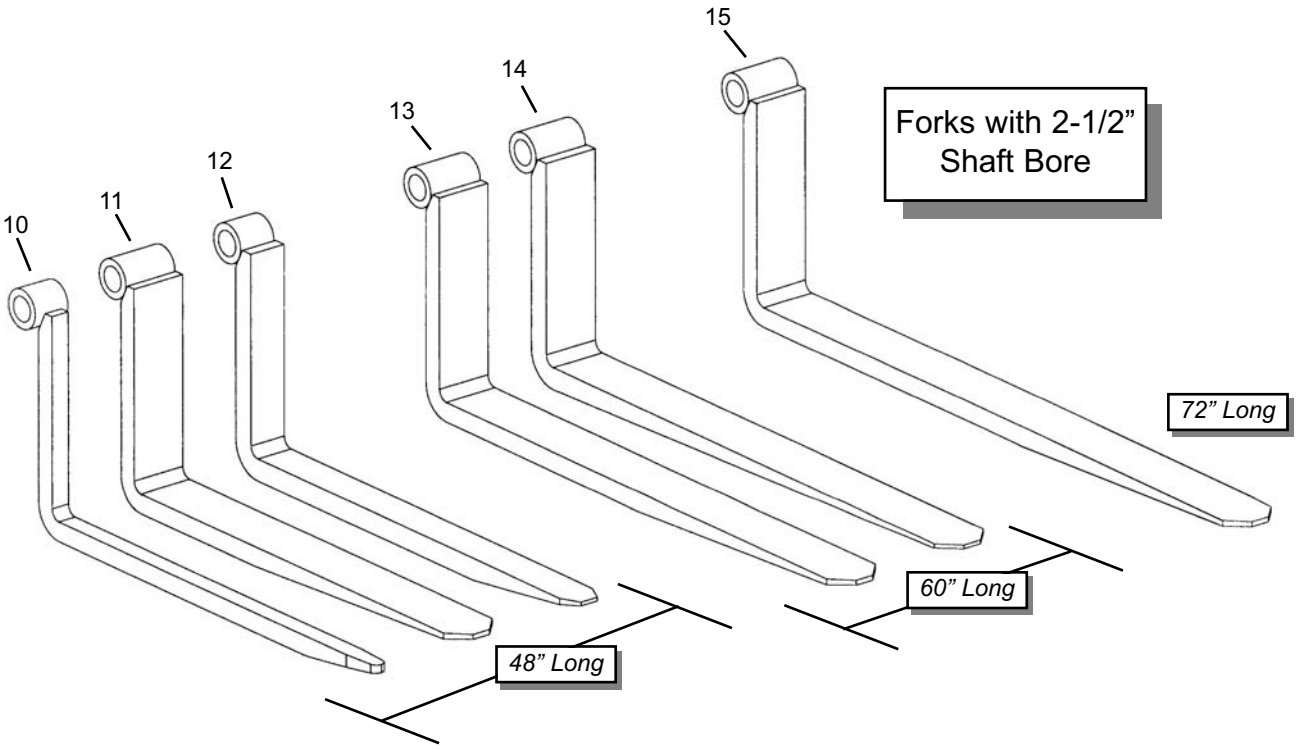
Ref. No.	Part No.	Description	Qty. Req.
00	808834	FORK-SHIFT CYLINDER	1
01	808581	ROD WELDMENT	1
02	808580	HEAD GLAND	1
03	808579	PISTON	1
04	809407	3/4”-16 UNF LOCKNUT	1
05	NSS	TUBE WELDMENT	1
06[a]	808506	SEAL KIT	1

a *Items included in the seal kit are not shown.*



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	814617	GRAPPLE CYL. *(complete)*	1	04	814620	PISTON	1
01	814618	ROD WELDMENT	1	05	808071	3/4”-16 UNF LOCKNUT	1
02	808720	BUSHING 1” x 1.25” x 1.5”	2	06	814621	SEAL KIT *(not all items shown)*	1
03	814619	HEAD GLAND	1	07	NSS	CYLINDER TUBE WELDMENT	1


Forks with 2" Shaft Bore
1
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72" Long
60" Long
48" Long
42" Long


Forks with 2-1/2" Shaft Bore
10
11
12
13
14
15
72" Long
60" Long
48" Long

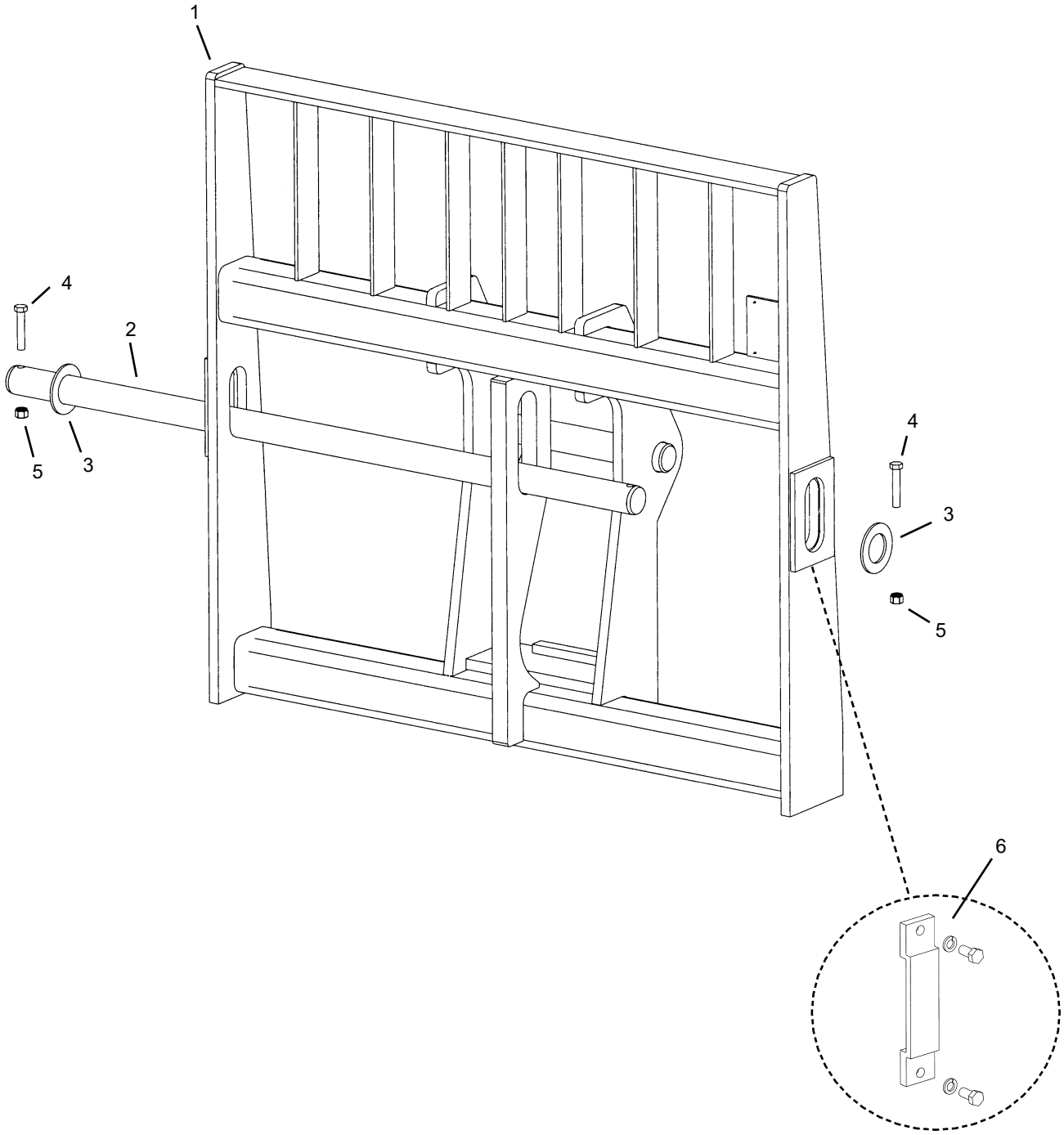
Ref. No.	Part No.	Description	Qty. Req.
		-- 2" FORK SHAFT DIAMETER --	
		(42" long)	
01	814622	FORK, 42"x4"x2" *(8,400 lbs.)*	2
		(48" long)	
02[ac]	814623	FORK, 48"x2"x2" *(4,200 lbs.)*	4
03[c]	814624	FORK, 48"x4"x2" *(8,400 lbs.)*	2
04	814625	FORK, 48"x4"x2-1/4" *(12,000 lbs.)*	2
05[c]	814626	FORK, 48"x5"x1-3/4" *(8,500 lbs.)*	2
06	814627	FORK, 48"x5"x2" *(10,500 lbs.)*	2
		(60" long)	
07	814628	FORK, 60"x5"x2" *(10,500 lbs.)*	2
08	814629	FORK, 60"x6"x2-1/4" *(12,000 lbs.)*	2
		(72" long)	
09	814630	FORK, 72"x5"X2" *(10,500 lbs.)*	2

Ref. No.	Part No.	Description	Qty. Req.
		-- 2-1/2" FORK SHAFT DIAMETER --	
		(48" long)	
10[bd]	814631	FORK, 48"x2"x2" *(12,600 lbs.)*	2
11[d]	814632	FORK, 48"x6"x2" *(12,600 lbs.)*	2
12[d]	814633	FORK, 48"x4"x2-1/4" *(12,000 lbs.)*	2
		(60" long)	
13[d]	814634	FORK, 60"x6"x2" *(12,600 lbs.)*	2
14[d]	814635	FORK, 60"x6"x2-1/4" *(12,000 lbs.)*	2
		(72" long)	
15[d]	814636	FORK, 72"x6"x2" *(12,600 lbs.)*	2

NOTE: *Ratings are based on 2 forks and the load is 24" on center, except for item #2; where 4 forks are required, and item #10; where 6 forks are required.*

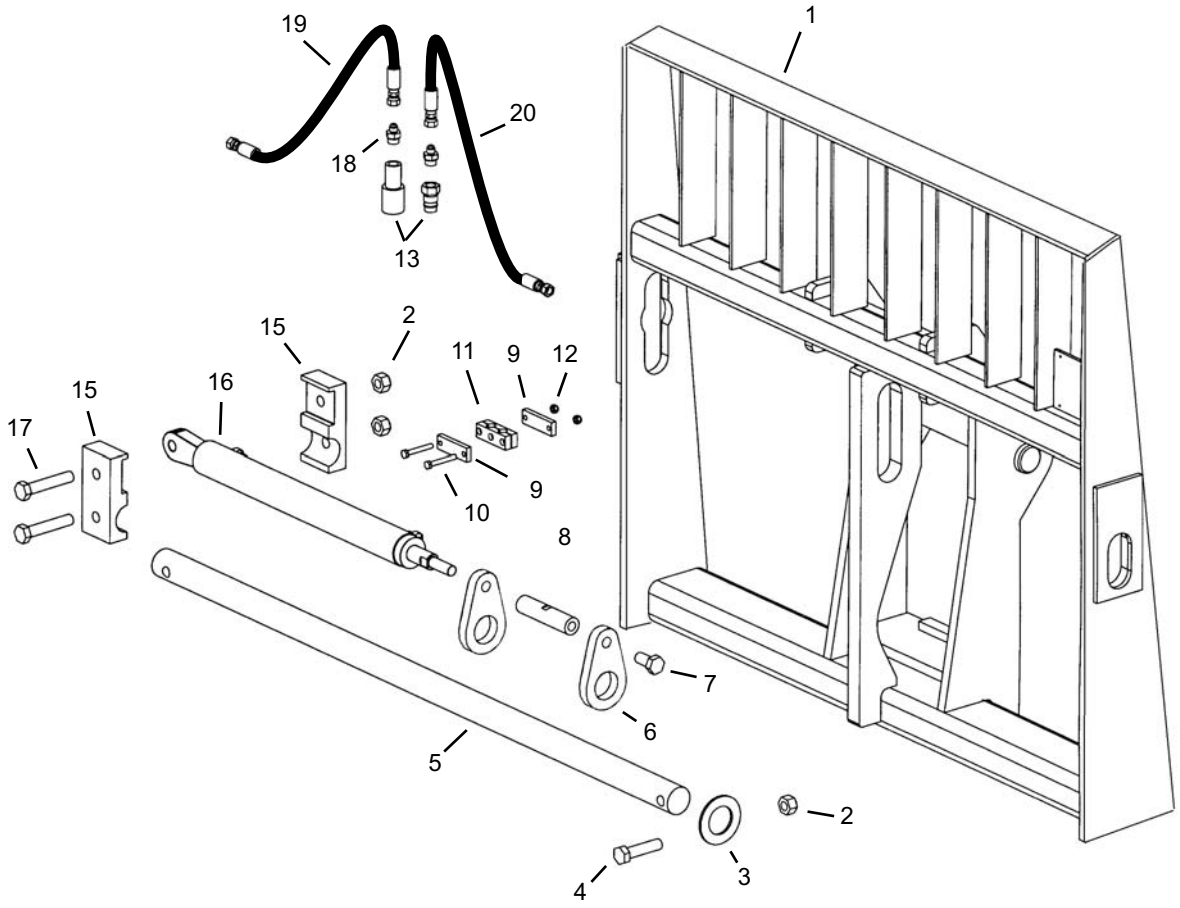
⚠ WARNING

When ordering forks, select forks with a rating capacity that meets or exceeds the lifting capacity of the machine; failure to use the correct forks could result in injury or death. For more information contact dealer (or manufacturer).

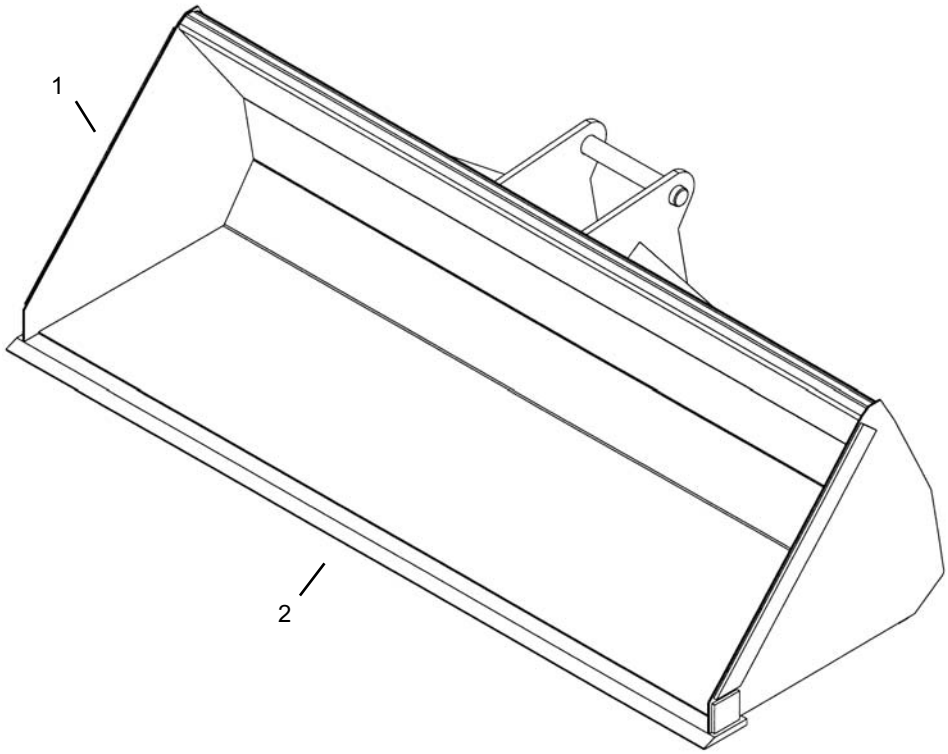

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Ref. No.	Part No.	Description	Qty. Req.
01		CARRIAGE WELDMENT	1
	809248	48" *(uses 2" pin)*	1
	814637	48" *(uses 2-1/2" pin) - (Note e)*	1
	809249	66" *(uses 2" pin)*	1
	814638	66" *(uses 2-1/2" pin) - (Note e)*	1
	814639	72" *(uses 2" pin)*	1
	814640	72" *(uses 2-1/2" pin)*	1
02		FORK SHAFT BAR	1
	808794	*(2" x 51-1/2")*	1
	808764	*(2" x 69-1/2")*	1
	809814	*(2" x 75-1/2")*	1
	814641	*(2-1/2" x 51-1/2") - (Note c)*	1
	814642	*(2-1/2" x 69-1/2") - (Note c)*	1
	814643	*(2-1/2" x 48-1/2") - (Note d)*	1
	814644	*(2-1/2" x 66-1/2") - (Note d)*	1
	814645	*(2-1/2" x 74-3/4")*	1
03		FORK SHAFT WASHER	2
	808431	*Note a*	
	614646	*Note b*	
04		BOLT	2
	808652	1/2" x 2-3/4" - (*Note a*)	2
	614647	1/2"-13" x 3-1/2" - (*Note b)*	2
05	808665	1/2"-13 NYLON INSERT NUT	2
06[f]	614648	FORKSHAFT RETAINER	1
	813805	1/2" LOCK WASHER	2
	614649	1/2"-13 x 1" BOLT	2

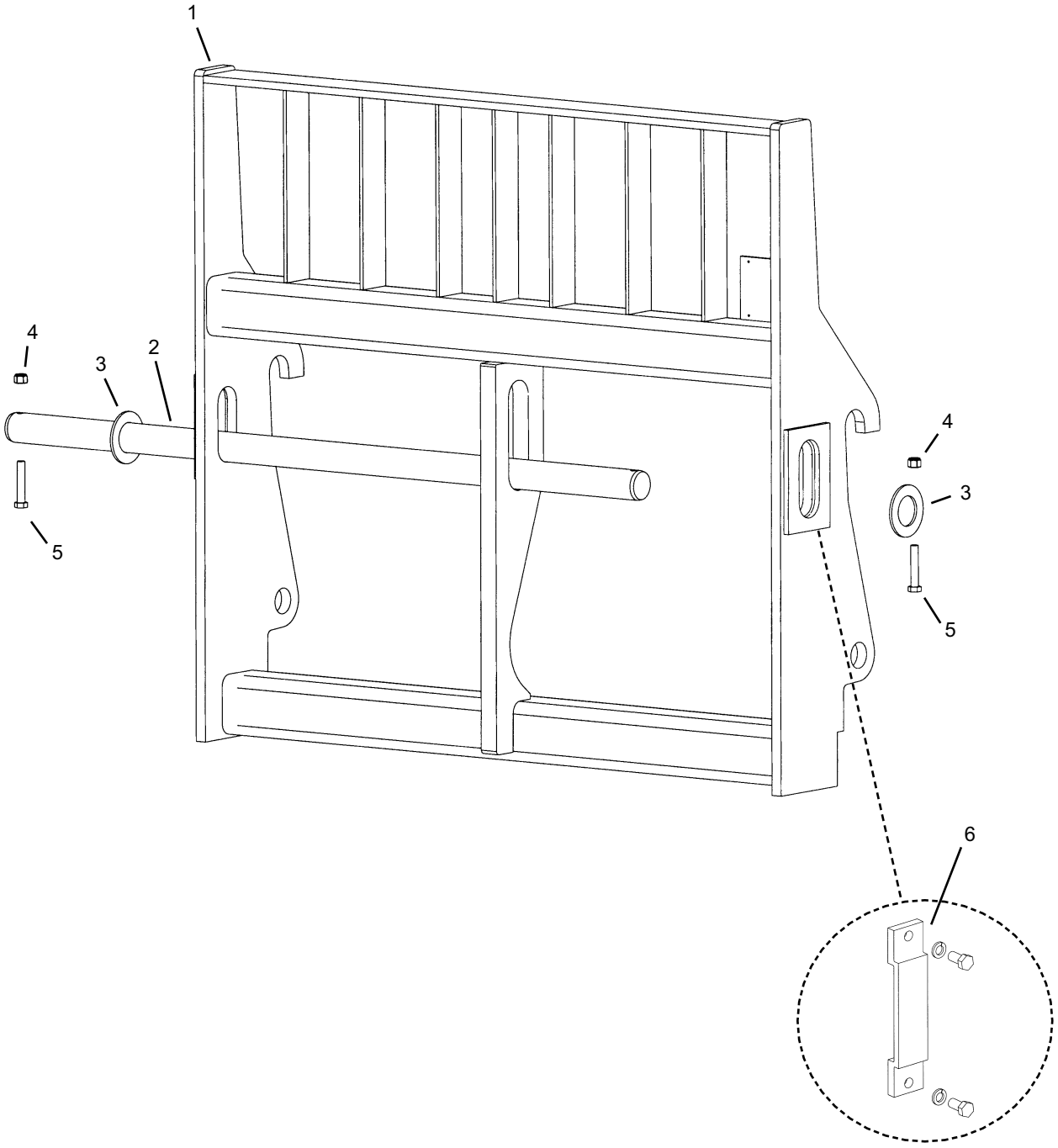
a *Used with 2" diameter fork shaft bar*
b *Used with 2-1/2" diameter fork shaft bar*
c *When equipped with item #6.*
d *When not equipped with item #6.*
e *If the carriage uses item 6 to retain the fork shaft bar, order the following items when replacing the carriage: item 2, note c; item 3; item 4 and item 5.*
f *Not used on all carriages.*



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	809250	FORK SHIFT CARRIAGE 1		10	809251	5/16”-18 x 2-1/4” BOLT 2	
02	808626	3/4”-10 NYLON INSERT NUT 3		11	808728	TWIN HOSE CUSHION. 1	
03	808431	FORK SHAFT WASHER 1		12	808662	5/16”-18 NYLON INSERT NUT 2	
04	808616	3/4”-10 x 3” BOLT 1		13	808796	COUPLER SET 1	
05	808822	FORK SHAFT, 50” 1		15	809252	CYLINDER MOUNT 2	
06	808824	FORK SLIDE PLATE 2		16	808834	FORK SHIFT CYLINDER 1	
07	814650	3/4”-10 x 1-1/2” BOLT 1		17	809487	3/4”-10 x 4” BOLT 2	
08		FORK SLIDE COUPLER. 1		18	808710	ADAP., -8ORM -6JICM *(w/0.06 orf.)* 2	
	808823	*For 4” wide forks*		19	809254	HOSE, -6 A6/A6 59” 1	
	809276	*For 5” wide forks*		20	808826	HOSE, -6 A6/A6 56” 1	
09	808727	TWIN CUSHION TOP PLATE 2					



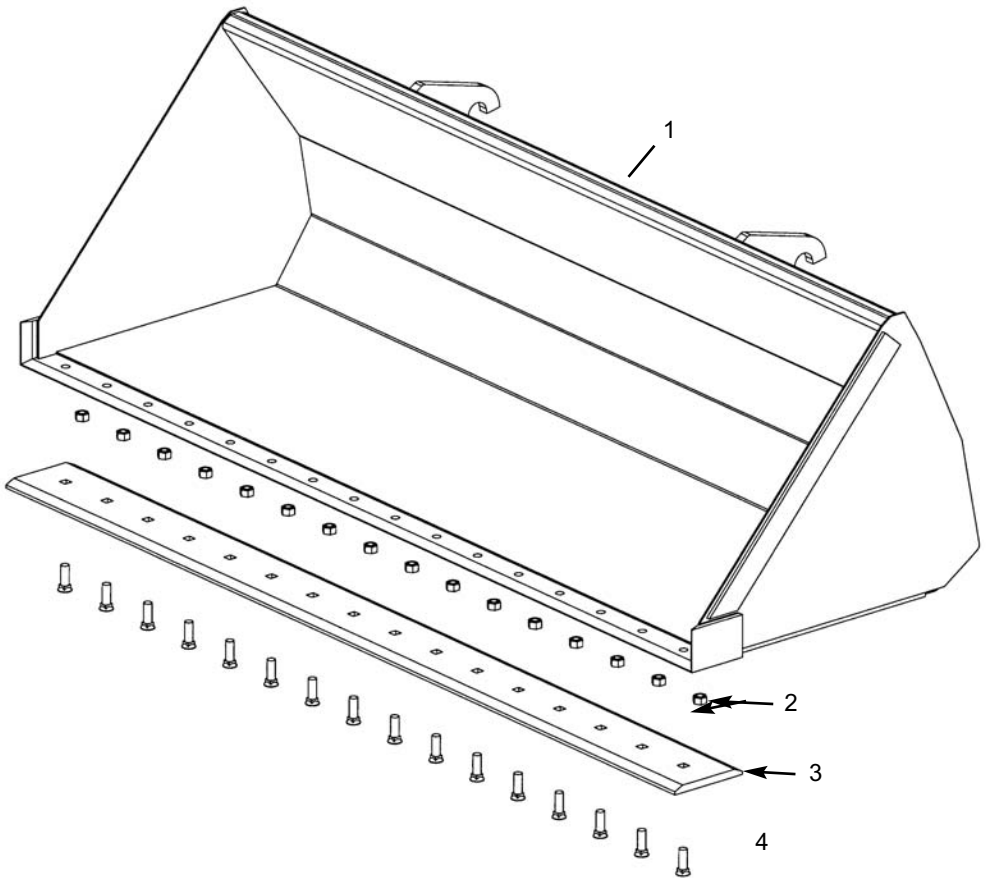
Ref. No.	Part No.	Description	Qty. Req.
01	809264	1.3 CU. YD. BUCKET WELDMNT .	1
02	808854	CUTTING EDGE, 98” x 6” x 3/4”. . . *(weld-on)*	1


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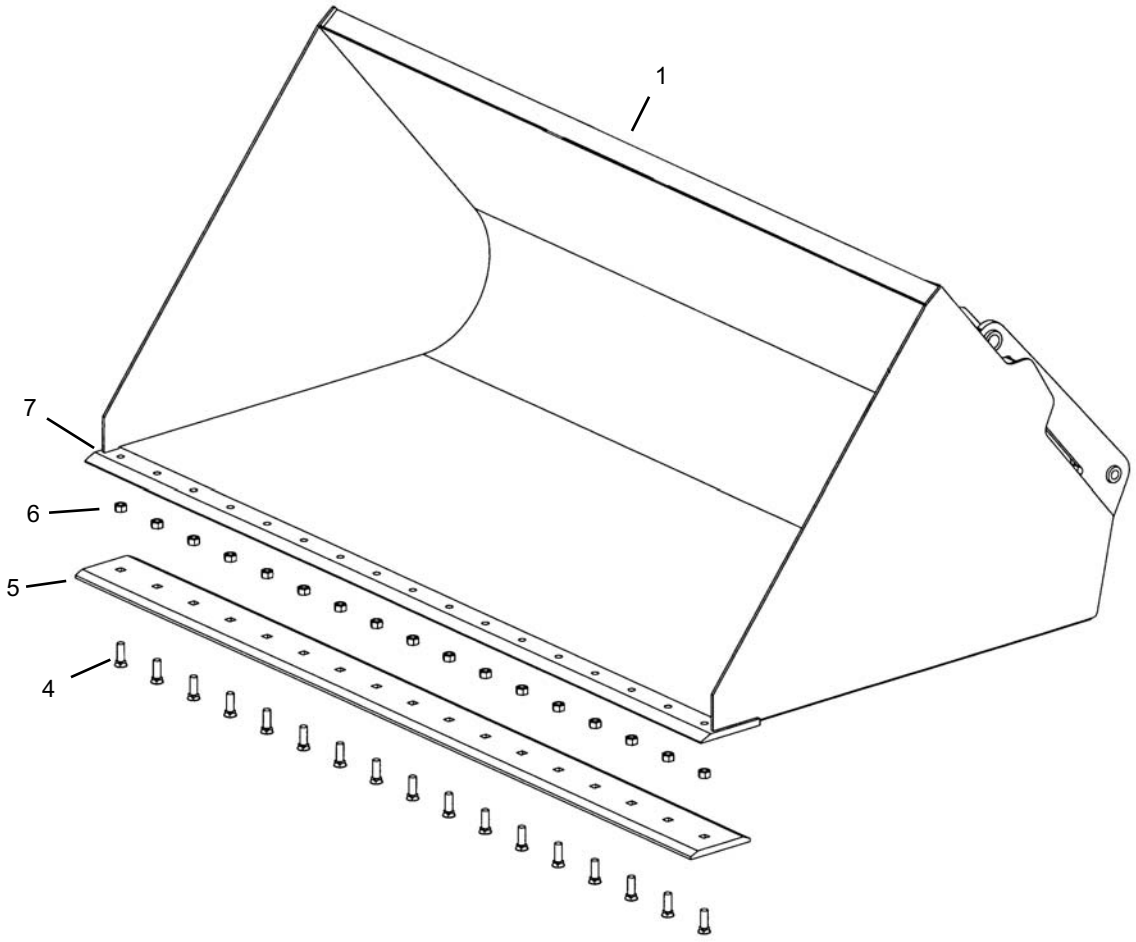
Ref. No.	Part No.	Description	Qty. Req.
01		CARRIAGE WELDMENT	1
	814651	48" *(2" pin)*	1
	814652	48" *(uses 2-1/2" pin) - (Note e)*	1
	814653	66" *(2" pin)*	1
	814654	66" *(uses 2-1/2" pin) - (Note e)*	1
	814655	72" *(uses 2" pin)*	1
	814656	72" *(uses 2-1/2" pin)*	1
02		FORK SHAFT BAR	1
	808794	*(2"X51-1/2")*	1
	808764	*(2"X69-1/2")*	1
	809814	*(2"X75-1/2")*	1
	814641	*(2-1/2" x 51-1/2") - (Note c)*	1
	814642	*(2-1/2" x69-1/2") - (Note c)*	1
	814643	*(2-1/2" x 48-1/2") - (Note d)*	1
	814644	*(2-1/2" x 66-1/2") - (Note d)*	1
	814645	*(2-1/2" x 74-3/4")*	1
03		FORK SHAFT WASHER	2
	808431	*Note a*	
	814646	*Note b*	
04	808665	1/2"-13 NYLON INSERT NUT	2
05		BOLT	2
	808652	*Note a* -- 1/2" x 2-3/4" BOLT	2
	814647	*Note b* -- 1/2"-13" x 3-1/2" BOLT	2
06[f]	814648	FORKSHAFT RETAINER	1
	813805	1/2" LOCK WASHER	2
	814213	1/2"-13 x 1" BOLT	2

a *Used with 2" diameter Fork Shaft Bar*
b *Used with 2-1/2" diameter Fork Shaft Bar*
c *When not equipped with item #6.*
d *When equipped with item #6.*
e *If carriage uses item 6 to retain the fork shaft bar, order the following items when replacing the carriage: item 2, note c; item 3; item 4 and item 5.*
f *Not used on all carriages.*

Dynacarrier® 1.3-Cubic-Yard Bucket



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814657	BUCKET WELDMENT 1.3 CU YD	1	03	814658	REVERSIBLE CUTTING EDGE	1
02	808626	3/4”-10 NYLON INSERT NUT	16	04	814659	3/4”-10 x 2-1/2” PLOW BOLT	16



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814660	BUCKET WELDMENT 3 CU YD	1	06	814659	3/4”-10 x 2-1/2” PLOW BOLT	17
04	808626	3/4”-10 NYLON INSERT NUT	17	07	814662	WELD-ON EDGE W / HOLES	1
05	814661	CUTTING EDGE - 101-3/8” LONG	1				

GENERAL INFORMATION

CAUTION

ALWAYS read and follow the safety precautions and information shown on decals. If any decals are damaged or unreadable, or if the unit is repainted, the decals must be replaced. If repainting, BE SURE that all decals that apply to your machine are affixed in their proper locations.

Decal locations information is provided to assist in the proper selection and application of new decals, in the event the original decals become damaged or the machine is repainted.

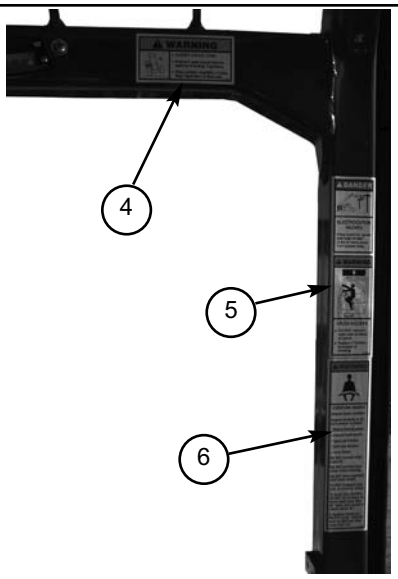
For correct replacement of decals, compare the location photographs to your machine before starting to refinish the unit. Check off each required decal using the illustration reference number to find the part number, description and quantity in the list. Refer to the appropriate illustration for replacement location.

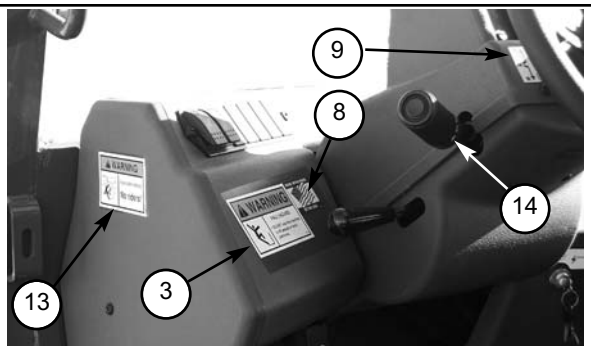
If there is a decal on a part that is to be replaced, be sure that the decal is applied to the replacement part.

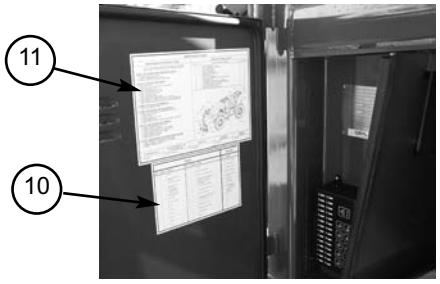
NOTE: *Refer to the SAFETY chapter of the Operator's Manual for specific information provided on the various safety decals.*

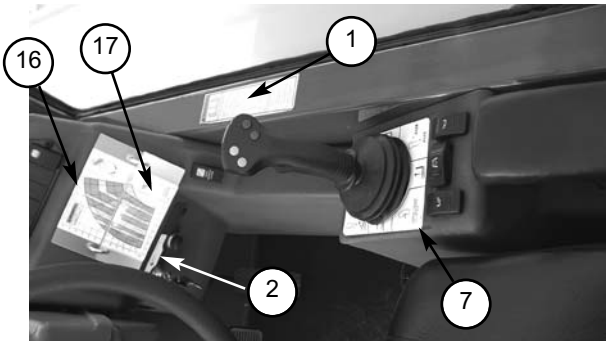
NEW DECAL APPLICATION

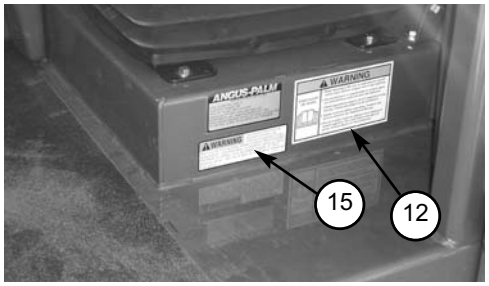
Before applying the new decals, surfaces must be free from dirt, dust, grease and other foreign material. To apply a solid-formed decal, remove the smaller portion of the decal backing paper and apply this part of the exposed adhesive backing to the clean surface while maintaining proper position and alignment. Slowly peel off the other portion of the backing paper while applying hand pressure to smooth out decal surface. To apply a pre-mask decal, first remove the backing paper to expose the adhesive side of the decal. Then, properly orient and position the decal onto the clean mounting surface. After the decal is firmly applied and smoothly pressed down, peel off the top covering paper.



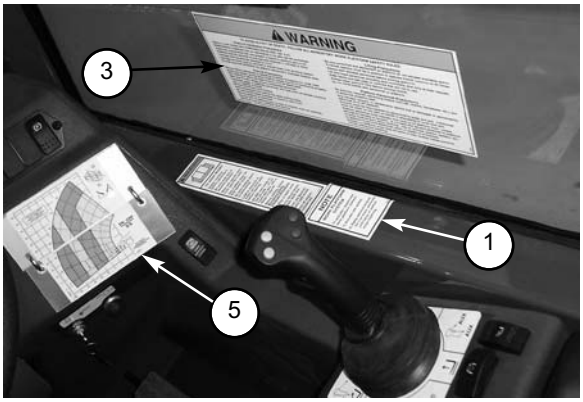






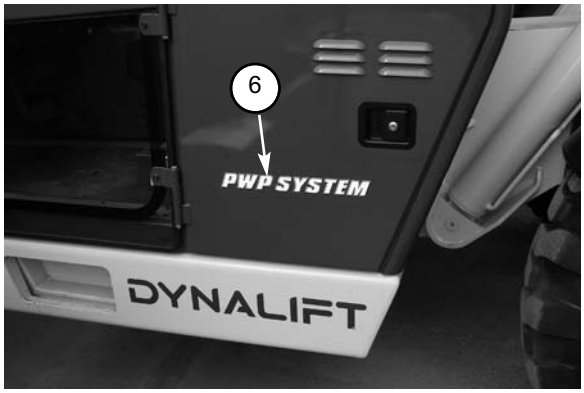


REF. NO.	DESCRIPTION	MT1155
01	WARNING - SEAT BELT AND PARK BRAKE	813273
02	IGNITION	814663
03	DANGER - PERSONAL INJURY *(units w/o PWP)*	813272
04	WARNING - CARRY LOAD LOW	814664
05	DANGER - HI-VOLT/MOVING PARTS	813279
06	WARNING - TILT HAZARD/GENL. OPER.	813280
07	JOYSTICK CONTROL *(dual function w/ two buttons)*	814665
	JOYSTICK CONTROL *(tri-function w/ four buttons)*	814666
08	MADE IN USA	808060
09	F-N-R SHIFTER	808059
10	FUSES/RELAYS REFERENCE	814667
11	MAINTENANCE CHART	814668
12	OPERATOR MANUAL	813281
13	WARNING - NO RIDERS	813271
14	SHIFTER 1,2,3,4	814669
15	ROPS FOPS WARNING	814670
16	LOAD ZONE CHARTS	*See Note*
17	PWP LOADCHART USAGE *(units w/o PWP)*	814671



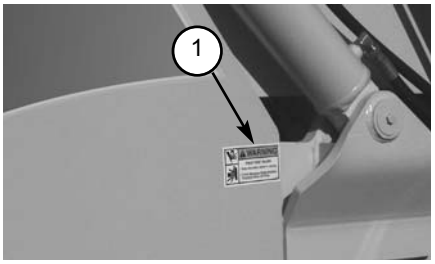


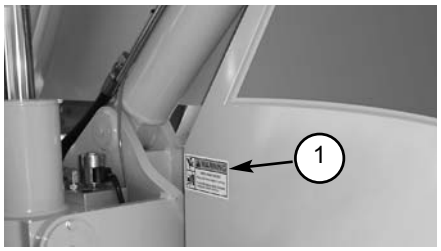


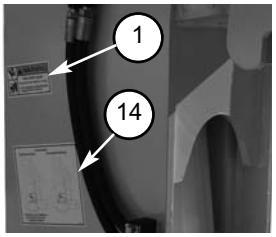


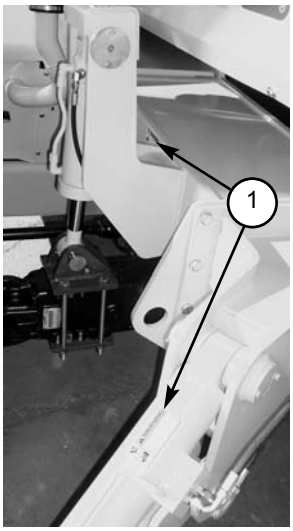
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02	PERSONNEL LIFT	808039
03	WORK PLATFORM RULES	808040
04	PERSONNEL LIFT SAFETY RULES	808041
05	PWP LOAD ZONE CHART	See Note
06	PWP SYSTEM	808045

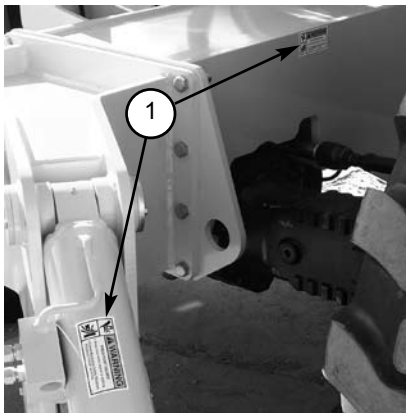
Note: *Refer to Operator's Manual for Load Zone Charts part numbers.*

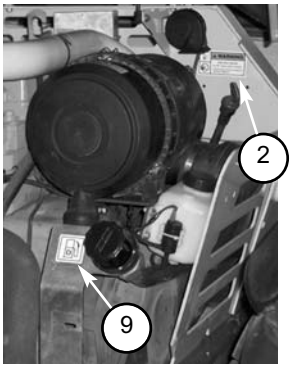

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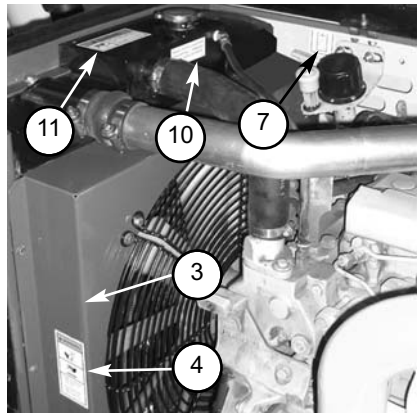

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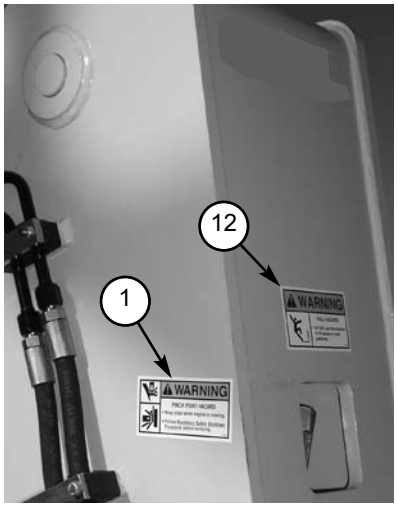

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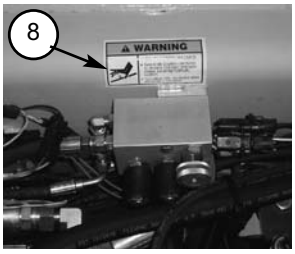

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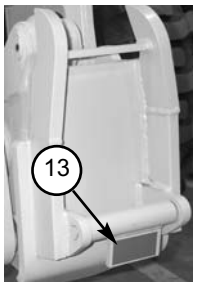

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WARNING
WARNING


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WARNING


13

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02	DANGER - JUMPSTART	813278	
03	WARNING - GAS CYLINDERS	814672	
04	DANGER - HANDS OUT	813277	
06			
07	HYDRAULIC OIL	814673	
08	ACCUMULATOR DISCHARGE	813274	
09	DIESEL FUEL	814674	
10	ANTI-FREEZE	808047	
11	COOLANT UNDER PRESSURE	813276	
12	PERSONNEL INJURY	813272	
13	DYNATTACH UNLOCKED	808038	
14	DYNATTACH DIAGRAM	808046	

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Torque Specifications

Use these torque values when tightening hardware (excluding: locknuts and self-tapping, thread-forming and metal screws) unless otherwise specified.

Unified National Thread	Grade 2		Grade 5		Grade 8	
	Dry	Lubed	Dry	Lubed	Dry	Lubed
8-32 8-36	19* 20*	14* 15*	30* 31*	22* 23*	41* 43*	31* 32*
10-24 10-32	27* 31*	21* 23*	43* 49*	32* 36*	60* 68*	45* 51*
1/4-20 1/4-28	66* 76*	50* 56*	9 10	75* 86*	12 14	9 10
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3/8-16 3/8-24	20 23	15 17	30 35	23 25	45 50	35 35
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1/2-13 1/2-20	35 40	35 40	75 90	55 65	110 120	80 90
9/16-12 9/16-18	55 60	55 60	110 120	80 90	150 170	110 130
5/8-11 5/8-18	75 85	75 85	150 180	110 130	220 240	170 180
3/4-10 3/4-16	130 150	130 150	260 300	200 220	380 420	280 320
7/8-9 7/8-14	125 140	125 140	430 470	320 360	600 660	460 500
1-8 1-14	190 210	190 210	640 710	480 530	900 1000	680 740

Metric Course Thread	Grade 8.8		Grade 10.9		Grade 12.9	
	Dry	Lubed	Dry	Lubed	Dry	Lubed
M6-1	8	6	11	7	13.5	10*
24M8-1.25	19	14	27	20	32.5	24*
M10-1.5	37.5	28	53	39	64	47
M12-1.75	65	48	91.5	67.5	111.5	82
M14-2	103.5	76.5	145.5	108	176.5	131
M16-2	158.5	117.5	223.5	165.5	271	200

* *All torque values are in lb.-ft., except those marked with an *, which are in lb.-in. For metric torque value (Nm), multiply lb.-ft. value by 1.355 or lb.-in. by 0.113.*