



RS6-42 RS8-42/44 RS10-44/55 RS12-42

GEHL

Form No.

50960015
Revision C

December
2013

Telescopic Handlers

(Equipped with Interim TIER IV Engine)

RS6-42; Beginning with SN 14551

RS8-42/44; Beginning with SN 17151

RS10-44/55; Beginning with SN 90191

RS12-42; Beginning with SN 18151



Parts Manual



Introduction

IMPORTANT: This parts manual contains parts information for all models of the Gehl RS Series Telescopic Handlers, except for the RS5-19 and the RS6-34 models; please refer to the appropriate parts manuals for RS5-19 and RS6-34 parts listings.

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

Furthermore, be aware that many components (such as transmissions and axles) differ between the various models; be sure to review the parts listing for the correct model before ordering parts.

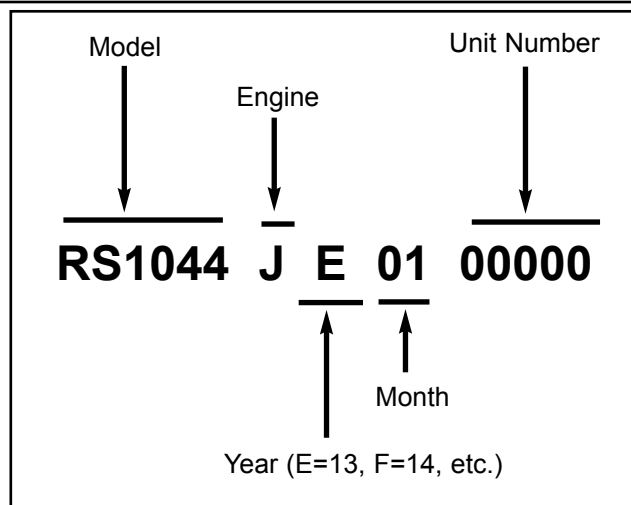
RS6 and RS8 Models Only

RS10 and RS12 Models Only

Page markers (tabs)—as shown to the left—are used in the transmission and axle sections to help identify components specific to each model. Be sure to check the page marker, as well as the page header, to verify the model before ordering parts

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

RS Series

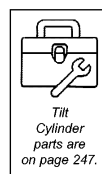


Model and serial numbers for this unit are stamped on a plate located inside the operator's station. The serial number is also stamped on the top front of the frame. The above reference shows the breakdown of the serial number:

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

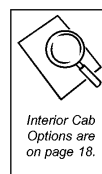
Gehl Company reserves the right to make changes or improvements in the design or construction of any part of the unit without incurring the obligation to install such changes on any unit previously delivered.

The following icons appear on various pages throughout the manual; they are used to inform, as well as direct you to more information.



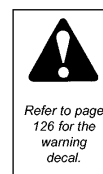
Tilt Cylinder parts are on page 247.

Identifies where additional pages for component parts, seals, and kits can be found.



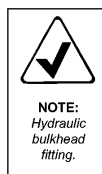
Interior Cab Options are on page 18.

Identifies where additional information can be found.



Refer to page 126 for the warning decal.

Alerts and directs user to investigate more information.



NOTE: Hydraulic bulkhead fitting.

Identifies missing, hidden parts, or adds informational comments.



Warning or Important Information

Seal Kit



Important information to follow

Repair Kit



Telescopic Handler

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Telescopic Handler

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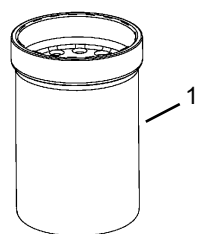
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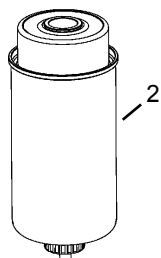
Maintenance

Filters, Belts, and Analysis Kits

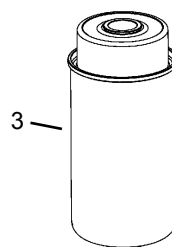
RS Series



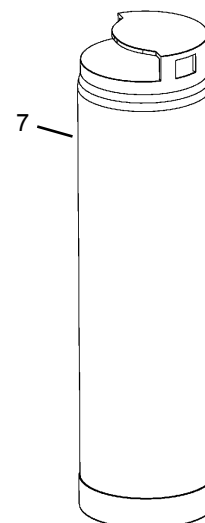
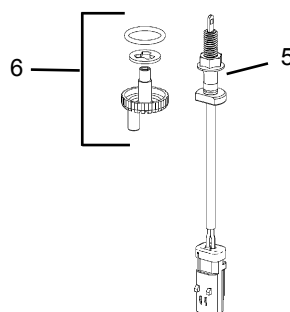
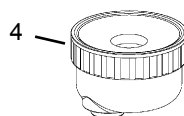
Engine Oil



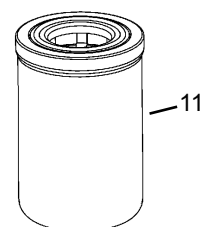
Fuel



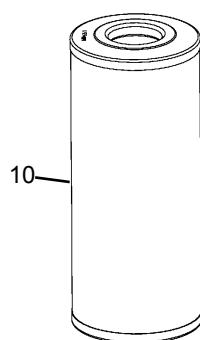
Fuel



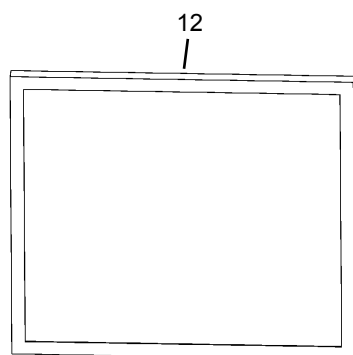
Secondary Air



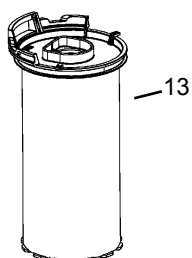
Transmission



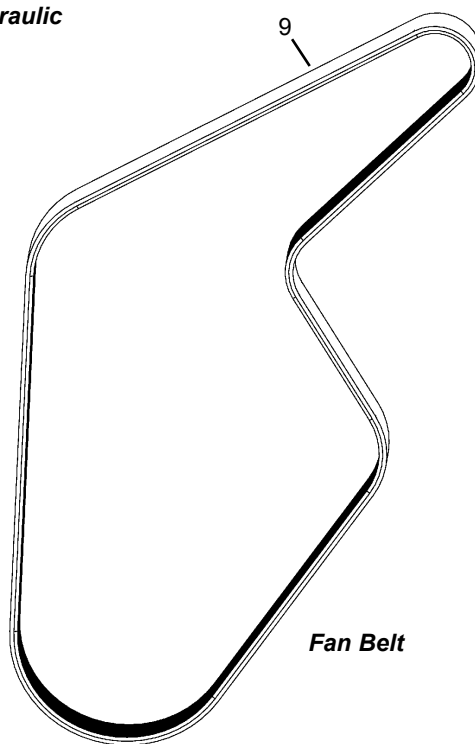
Hydraulic



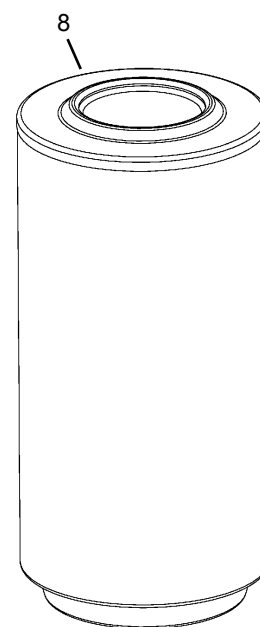
Cab Air



Crankcase Ventilation



Fan Belt



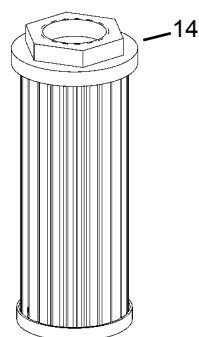
Primary Air



Telescopic Handler

Maintenance Filters, Belts, and Analysis Kits

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	102173	ENGINE OIL FILTER	1	10	L97489	HYDRAULIC FILTER	1
02	50220173	FUEL FILTER (<i>secondary filter</i>) . . .	1	11	L99184	TRANSMISSION FILTER	1
03	50220174	FUEL FILTER (<i>primary filter</i>)	1	12 ^b	211146	FILTER, CAB AIR	1
04	105818	SEDIMENT BOWL	1	13	50220168	FILTER, CRANKCASE VENT.	1
		(<i>does not include items 5 or 6</i>)		14	L49327	STRAINER, HYDRAULIC OIL	1
05	50220622	WATER SENSOR	1			(<i>Located in hydraulic tank -- refer to page 50, item 15.</i>)	
06	50380272	DRAIN VALVE KIT	1				
		(<i>includes o-ring and seal</i>)					
07	105071	SECONDARY AIR FILTER (<i>inner</i>) . . .	1	a		Use dust seal P/N 102742 as needed.	
08	105070	PRIMARY AIR FILTER (<i>outer</i>)	1	b		When equipped with optional air conditioning.	
09		FAN BELT	1				
	50220187	(<i>Standard - No A/C</i>)					
	50220188	(<i>When equipped with A/C option</i>)					



Hydraulic Oil Strainer
(*located inside hydraulic tank*)

Analysis Kits*

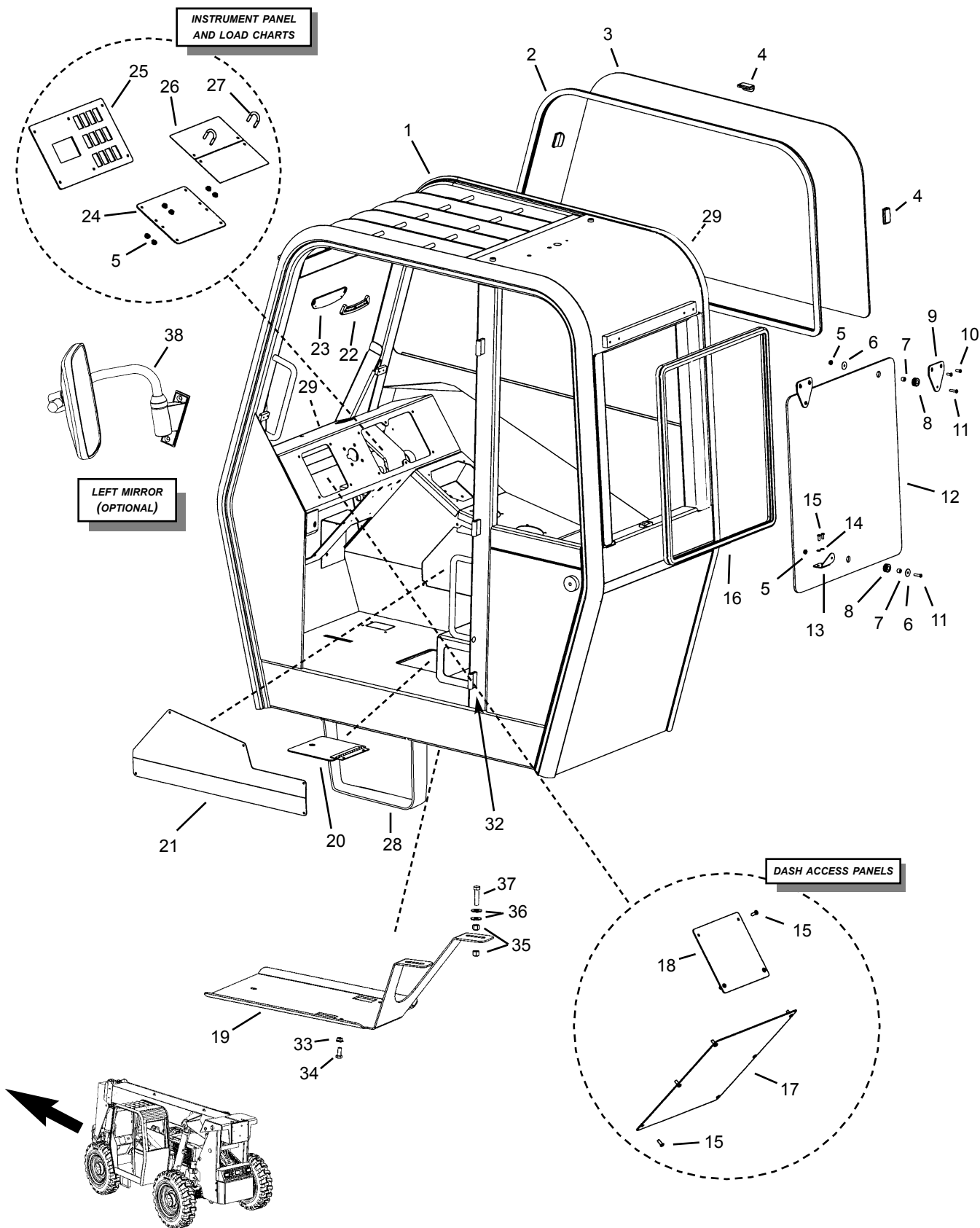
	Qty.
272806	HYDRAULIC OIL ANALYSIS KITS (10)
272809	ENGINE OIL ANALYSIS KITS (10)
272811	BASIC FUEL ANALYSIS KIT (1)
272812	COOLANT ANALYSIS KITS (10)
272813	FIELD TEST COOLANT STRIP KIT (1)
272814	OIL VACUUM PUMP (1)
272815	COOLANT VACUUM PUMP (1)
272816	1/4" PLASTIC TUBING (100-FOOT ROLL)

* For the analysis of fluids and lubricants used in this machine. Contact your Gehl Dealer for more information.



Cab Standard Cab

RS Series





Telescopic Handler

Cab
Standard Cab

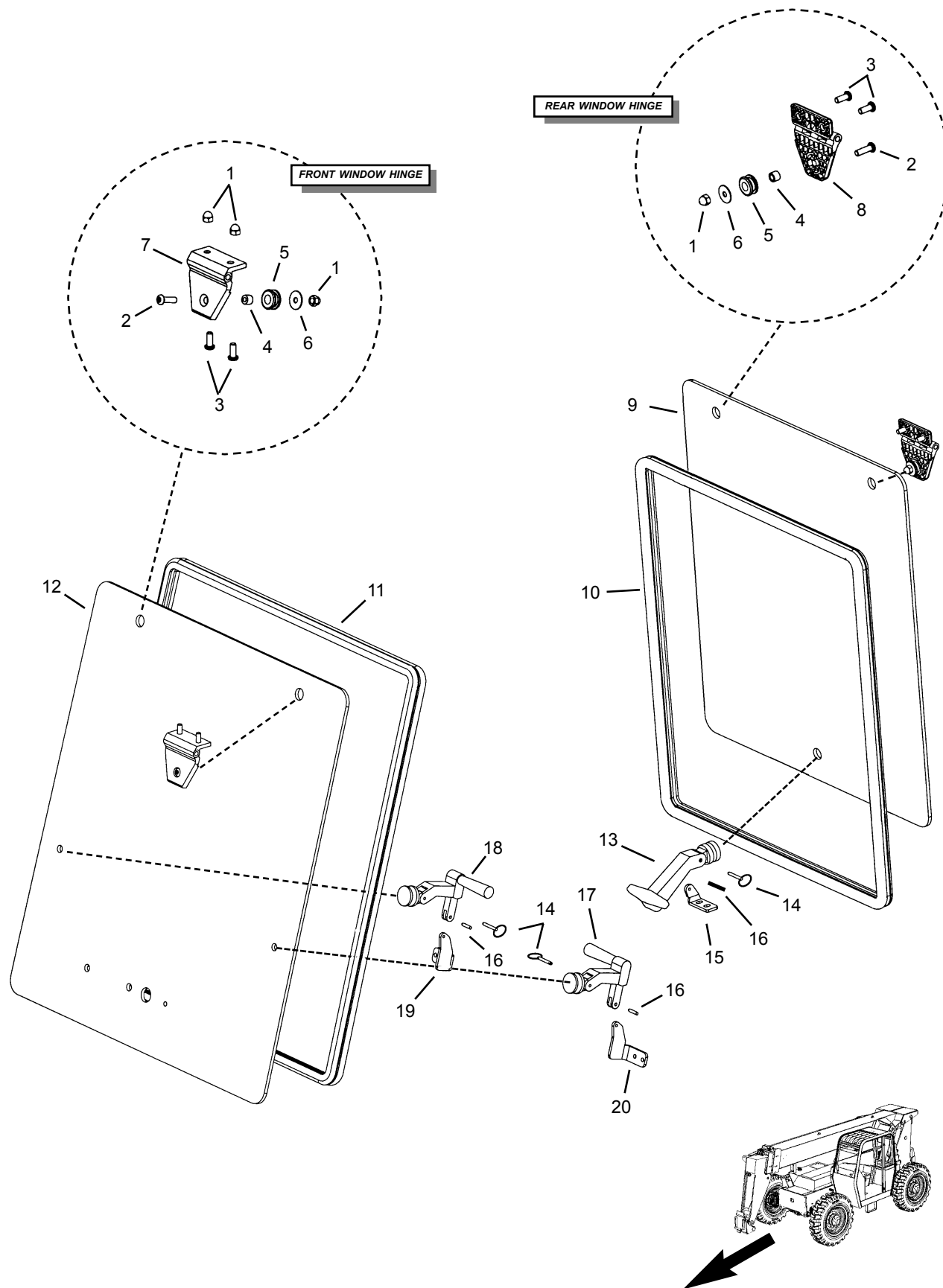
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^d	210583	CAB (<i>frame work only</i>)	1	27	L63887	1/4"-20 U-BOLT	1
02	102707	BULB SEAL, RIGHT WINDOW	1	28	102491	ACCESS STEP (<i>weld on</i>)	1
03	102683	GLASS, RIGHT HAND	1	29	103188	GROMMET, 5/8"	AR
	103674	SCREEN, RIGHT HAND (<i>option</i>)		32	L61067	HINGE TUBE (<i>weld on</i>)	3
04	L500057	CLIP, WINDOW	3			(<i>when equipped with door option</i>)	
	L500055	SCREW, FLANGE	6	33	L50056	5/16" FLANGE LOCK NUT	2
05	L50051	1/4"-20 WHIZ LOCK NUT	AR	34	650486	5/16"X3/4" BOLT	2
06	L500022	WASHER, FLAT (<i>black</i>)	3	35	L520005	3/8" NYLON LOCK NUT	4
07	L500020	BUSHING, NYLON	3	36	654006	3/8" FLAT WASHER	4
08	L500021	GROMMET, 1/2"ID X 1/4"GROOVE	3	37	650533	3/8"X1-1/2" BOLT	2
09	102880	MOUNT, REAR GLASS UPPER	2	38 ^e	219274	MIRROR (<i>optional</i>)	1
10	L52025	5/16"-18X3/4" BUTT. HD BOLT	4		L50202	1/4"-20x5/8" BUTT. HD. BOLT	AR
11	L52024	1/4"-20X1" BUTT. HD BOLT	3		L50051	1/4"-20 FLANGE LOCK NUT	AR
12	102684	GLASS, REAR	1				
13	102881	MOUNT, REAR GLASS LOWER	1			-- ITEMS NOT SHOWN--	
14	L50139	1/4" LOCK WASHER	2	--	104688	PLUG, BLACK 5/8"	AR
15	L50202	1/4"-20X5/8" BUTT. HD BOLT	AR	--a	L63813	HOLE PLUG, 2-1/2" DIA	1
16	102708	BULB SEAL, REAR WINDOW	1			(<i>defroster hole in dash</i>)	
17 ^a	102728	PANEL, HEATER	1	--	L54002	TREAD STRIP, 6" WIDE	4 feet
18 ^a	102727	PANEL, DASH COVER	1				
19	210451	SKID PLATE, BOTTOM	1				
20	102778	WLDMNT, BRAKE CYL COVER	1	a		Used when not equipped with a heater.	
21	102657	COVER, HYD. CONTROLLERS	1	b		Refer to "Instrument Panel and Switches" section for information regarding switches and gauges.	
	101550	1/4"-20X3/4" SCREW, PHILP HD.	5				
22	L66011	INDICATOR/FRAME LEVEL	1	c		Refer to decal section for load chart decals.	
	L50417	#8-32X1" SCREW	2				
23	L69297	PLATE, INCLMT MOUNT	1				
	L52025	5/16"-18X3/4" BUTT. HD BOLT	4	d		Cab does not include windows or a door. If reusing the windows and the door from current cab, or if ordering a front window for the new cab, it will be necessary to order replacement front window hold-open brackets P/N 104973 and P/N 104974. Refer to the next page for more information.	
24	102692	COVER, FUSE PANEL	1				
	101550	1/4"-20X3/4" SCREW, PHILP HD.	4	e		If the cab is an earlier model, it might not have a bracket to mount the mirror. There is, however, a kit available that includes a weld-on bracket and all items listed under item #38; the kit number is 50860013.	
25	Note b	PANEL, DASH	1				
26 ^c	L63634	LOAD CHART PLATE (<i>metal</i>)	2				
	L69402	LOAD CHART PLATE (<i>plastic</i>)	AR				



Cab

Front and Rear Window - Enclosed Cab

RS Series





Cab

Front and Rear Window - Enclosed Cab

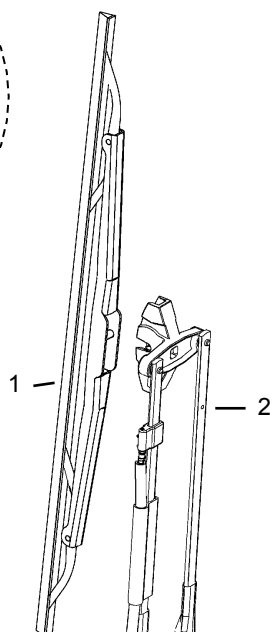
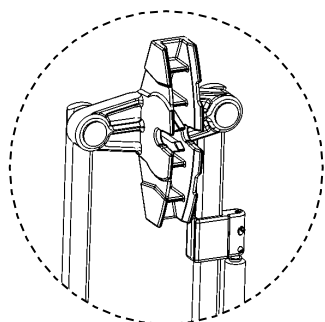
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L500038	5/16"-18 ACORN NUT	AR	14	L500025	PIN, QUICK DETACH	4
02	651639	5/16"-18X1" BUTTN HD BOLT	4	15	104846	MOUNT, REAR WINDOW LATCH . .	1
03	651640	5/16"-18X3/4" BUTTN HD BOLT . . .	8	16	L500019	PIN, ROLL - 3/16"x1/2"	3
04	L500042	BUSHING, STEEL	4	17	L500028	HOLD OPEN, L-STYLE	1
05	L500021	GROMMET, 1/2"IDX1/4"GROOVE . .	6	18	L500027	HOLD OPEN, L-STYLE	1
06	651641	5/16" FLAT WASHER (BLACK). . . .	4	19	104974	MOUNT, HOLD-OPEN (<i>right</i>)	1
07	L500111	HINGE, FRONT WINDOW	2	20	104973	MOUNT, HOLD-OPEN (<i>left</i>)	1
08	L500024	HINGE, PLASTIC (<i>rear window</i>) . . .	1				
09	102684	GLASS, REAR.	1			-- ITEMS NOT SHOWN --	
10	102708	BULB SEAL, REAR GLASS	1		(<i>Hardware for window hold open brackets</i>)		
11	102706	BULB SEAL, FRONT GLASS	1	--	650863	1/4" FLAT WASHER	AR
12	102682	GLASS, FRONT	1	--	654002	1/4" LOCK WASHER.	AR
13	101727	HOLD-OPEN, T-STYLE	1	--	L50202	1/4"-20X5/8" BUTTN HD BOLT. . AR	



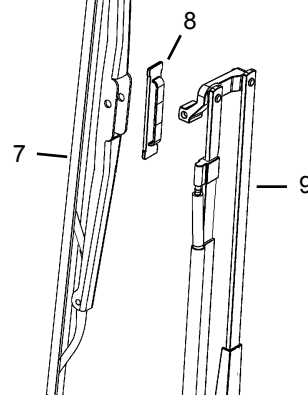
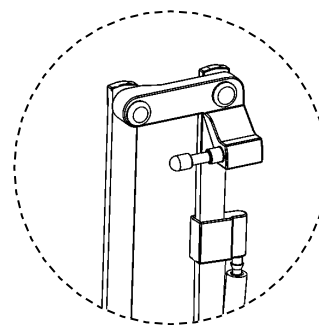
Cab

RS Series

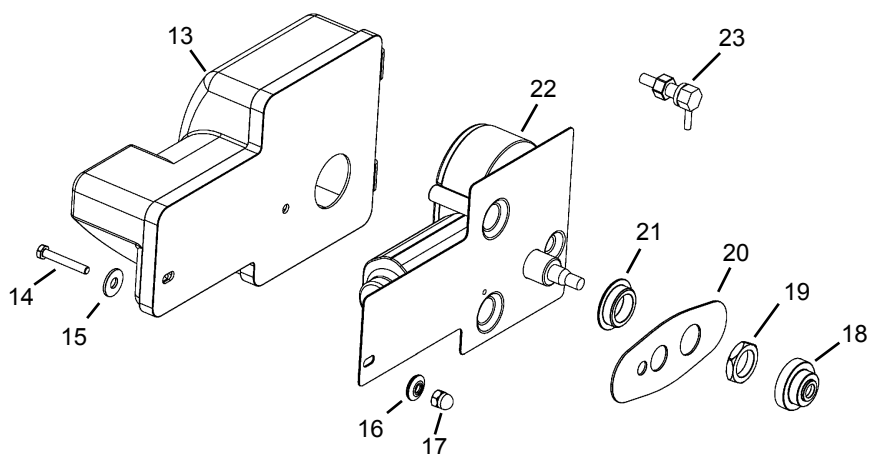
Wipers — Front and Top (with Enclosed Cab)



**Late-Style
Wiper**



**Early-Style
Wiper**



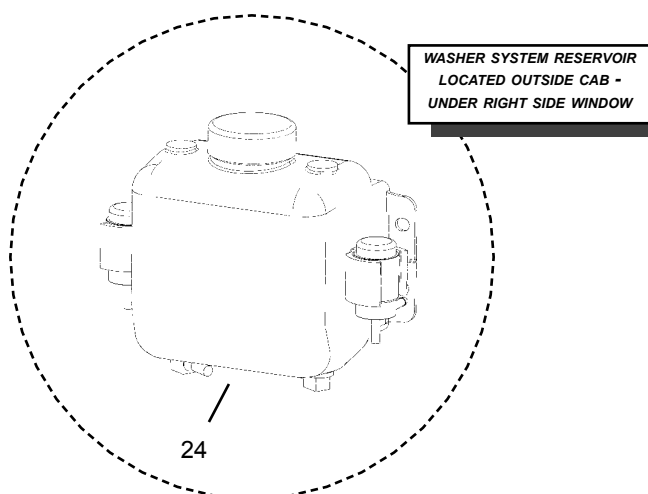


Telescopic Handler

Cab

Wipers—Front and Top (with Enclosed Cab)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380577	WIPER BLADE, 16"	1	22	L500695	WIPER MOTOR, TRICO	1
02		WIPER ARM, PANTOGRAPH	1	23	L500099	ADAPTER/WET ARM	1
	50380576	Front Window — 16"		24	101495	BOTTLE, DUAL -PUMP WASHER	1
	50380682	Top Window — 19"					
03	50380579	PLATE, PANTO ARM MOUNT	1			-- ITEMS NOT SHOWN --	
04	50380583	PIN, PANTO ARM MOUNT	1			(Windshield Wiper Harness)	
05	L500706	M5, ACORN NUT	1	--	103179	HARNESS, TOP WIPER	1
06	L500700	M8, ACORN NUT	1	--	103180	HARNESS, FRONT WIPER	1
07	102913	WIPER BLADE, 16"	1			(Windshield Washer System)	
08	L500707	ADAPTER, PIN LOCK	1				
09		WIPER ARM, PANTOGRAPH	1	--	102925	HARNESS, WASHER BOTTLE	1
	NSS	Front window—see note a		--	103013	TUBING, WASHER (15-1/2')	1
	NSS	Top window—see note b					
10	L500719	PANTO ADAPTER PLATE	1				
11	101717	WASHER, #10 WEATHERTITE	1	a		The early style front wiper arm is no longer available; it will be necessary to order part number 50380585 Wiper Arm Kit, which contains items 1-4, but not PN 50380682 top wiper arm.	
12	L500711	SCREW, M5 16mm	1				
13	L500696	COVER WIPER MOTOR	1				
14	L500718	BOLT / 10-24x1.25 HEX GR5	1				
15	L500001	WASHER/BLK NYLON	1				
16	139170	WASHER, #10 WEATHERTITE	2	b		The early style top wiper arm is no longer available; it will be necessary to order part number 50380683 Wiper Arm Kit, which contains items 1-4, but not PN 50380576 front wiper arm.	
17	L500004	NUT/ACORN #10-24 BLK	1				
18	L500709	RAIN SHIELD	1				
19	L500697	M18, NUT	1				
20	L500701	GASKET, PANTO ADAPTER	1				
21 ^c	L500708	TOWER SEAL, TRICO WIPER	1	c		Not used on top wiper installation.	

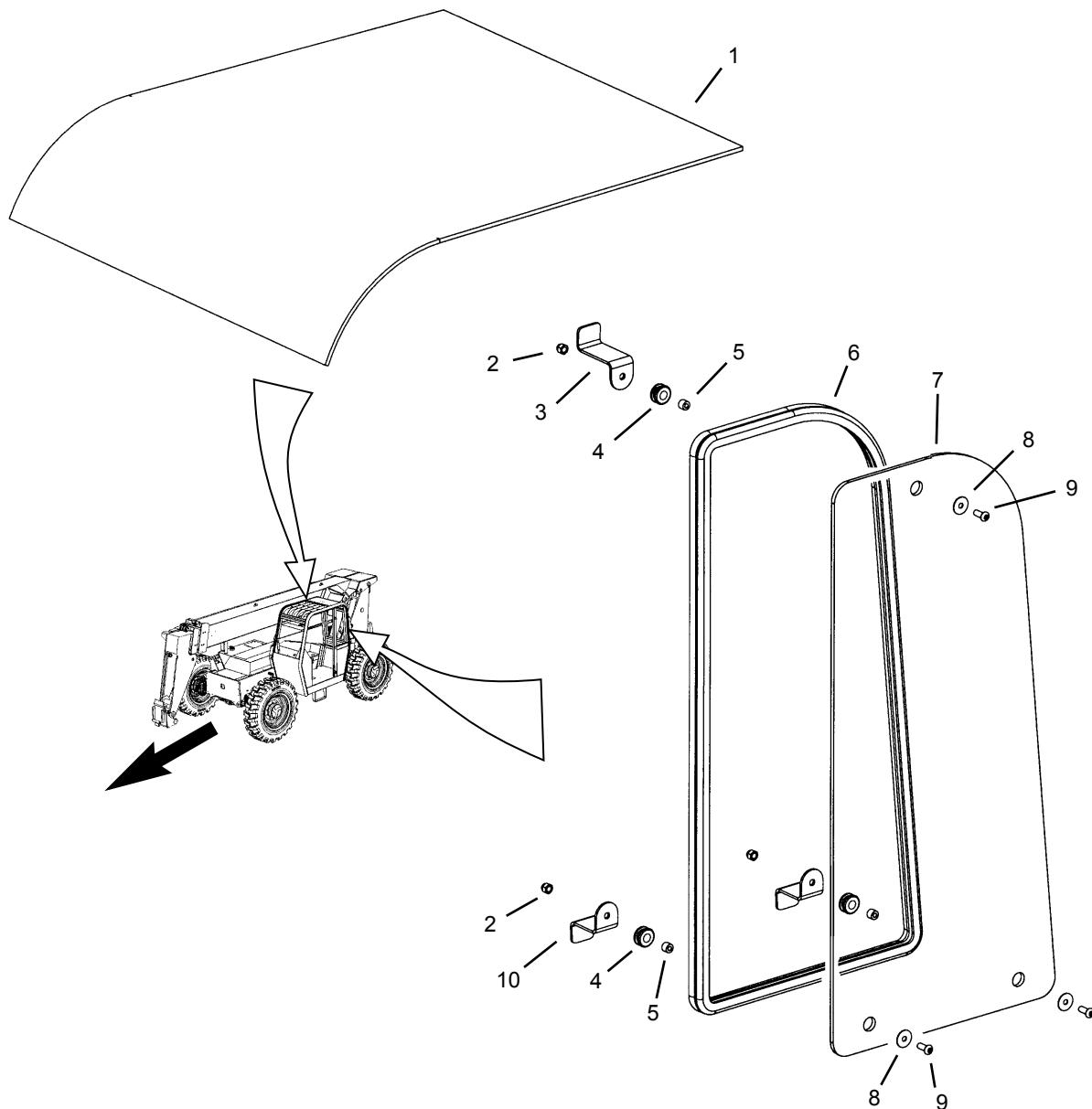




Cab

RS Series

Top and Left Window - Enclosed Cab





Telescopic Handler

Cab

Top and Left Window - Enclosed Cab

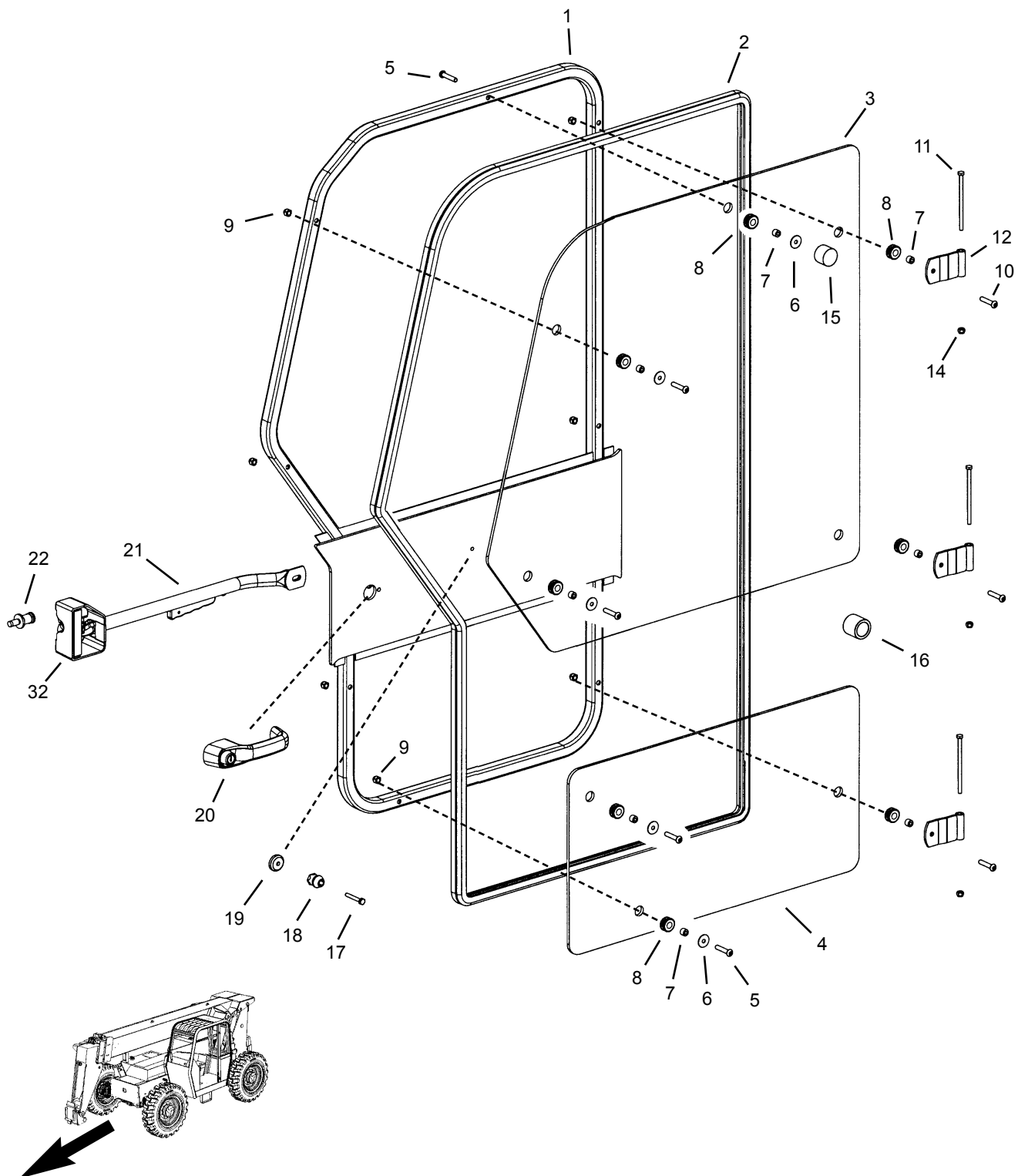
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	102686	GLASS, TOP	1	09	651639	5/16"-18X1" BUTTN HD BOLT	4
02	L500038	5/16"-18 ACORN NUT	AR	10	102712	WINDOW MOUNT, LOWER	2
03	102711	WINDOW MOUNT, UPPER.	1				
04	L500021	GROMMET, 1/2"IDX1/4"GROOVE . .	3			-- ITEMS NOT SHOWN --	
05	L500042	BUSHING, STEEL	4	--b	105149	TOP GLASS FILLER	1
06	102709	BULB SEAL, LEFT GLASS	1				
07	102685	GLASS, LEFT REAR.	1	a		Use P/N L500607 adhesive kit to attach top glass to cab.	
08	651641	5/16" FLAT WASHER (BLACK). . . .	4	b		Used to reduce gap between cab and top glass at front top of the cab; use adhesive L500607 to secure to cab and seal top glass.	



Cab

Door - Enclosed Cab

RS Series





Telescopic Handler

Cab

Door - Enclosed Cab

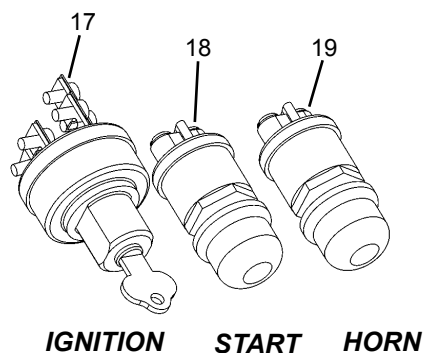
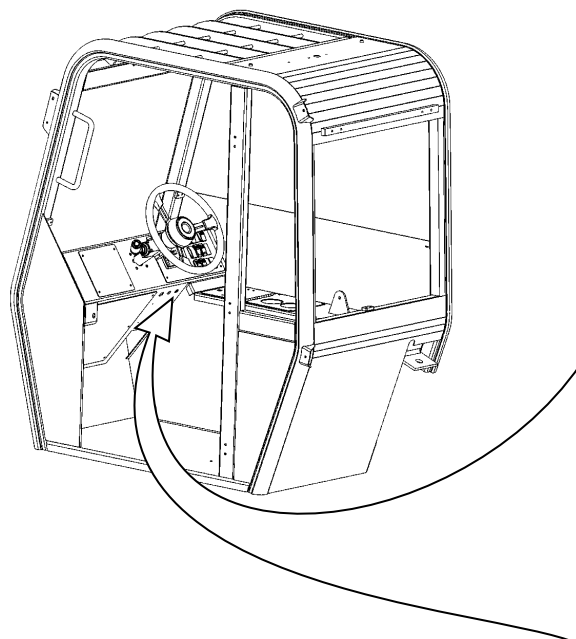
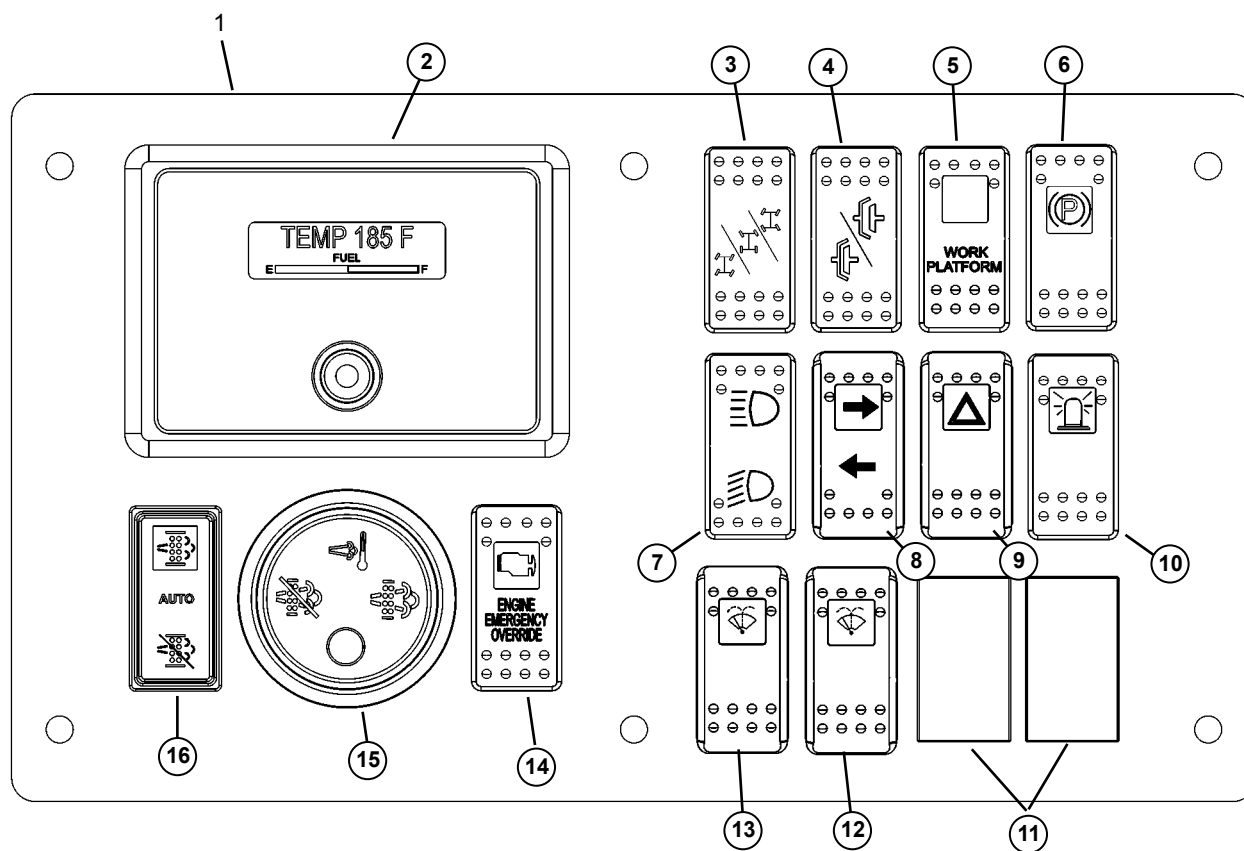
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
--	103014	CAB DOOR 1 <i>(includes items 1-10, 12 and 15)</i>		17	650588	1/4"-20x1-1/2" BOLT 1	
01	102874	WELDMENT, CAB DOOR FRAME . 1		18	NSS	HOLD OPEN/DOOR STUD. 1 <i>(included with item #16 as a set)</i>	
02	102705	BULB SEAL, DOOR FRAME 1		19	101719	GLASS MOUNT 1	
03	102680	GLASS, UPPER DOOR 1		20	102948	HANDLE, EXT. DOOR LOCKING . . 1	
04	102681	GLASS, LOWER DOOR 1			101792	KEY ONLY 1	
05	651638	5/16"-18X1-13/4" BUTTN HD BOLT 5		21	102886	LATCH RELEASE, INTERIOR 1	
06	651641	5/16" FLAT WASHER (BLACK) . . . 5			651635	1/4-20X1-1/4" FLAT HD SCREW . . 2	
07	L500042	BUSHING, STEEL 8			L50202	1/4-20X5/8" BUTTN HD BOLT . . . 1	
08	L500021	GROMMET, 1/2"IDX1/4"GROOVE . 8			651636	M6-1X12 8.8 BOLT. 2	
09	L500038	5/16"-18 ACORN NUT (BLACK) . . 8			L500022	FLAT WASHER (BLACK) 1	
10	651643	5/16"-18X2" BUTTN HD BOLT . . . 3			L520003	1/4"-20 NYLON INSERT NUT 2	
11	650730	3/8"-16X5" BOLT 3			L70069	1/2" HOLE PLUG 2	
12	102901	WELDMENT, DOOR HINGE 3		22	101436	STRIKER 1	
14	067847	3/8"-16 NYLON INSERT NUT 3			654028	7/16" LOCK WASHER 1	
15	102928	BUMPER, DOOR 1			654046	7/16" FLAT WASHER 1	
16	L500036	HOLD OPEN/DOOR (SET) 1 <i>(includes item #18) [mounts to cab]</i>			L50979	7/16"-14 NUT 1	
				32	101746	COVER <i>(included with item #21)</i> . . . 1	



Cab

Instrument Panel and Switches

RS Series





Telescopic Handler

Cab

Instrument Panel and Switches

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380306	PANEL, DASH 1 <i>(does not include switches or display)</i>		12	L71076	SWITCH, WIPER/WASHER 1 <i>(top window)</i>	
02	210927	DISPLAY, CAN & INSTRUMENTS . 1		13	L71076	SWITCH, WIPER/WASHER 1 <i>(front window)</i>	
03	L71075	SWITCH, STEER MODE 1		14	101278	SWITCH, ENGINE FAULT 1	
04	L71086	SWITCH, CLUTCH CUT-OUT 1		15	50380243	INDICATOR, DPF STATUS 1	
05	L71691	SWITCH, WORK PLATFORM 1		16	50380314	SWITCH, DPF CONTROL 1	
06	L71074	SWITCH, PARK BRAKE 1		17	089069	SWITCH, IGNITION w/KEY 1	
07	L71082	SWITCH, LIGHTS 1			089070	KEY ONLY (2 keys) 1	
08	L71084	SWITCH, TURN SIGNALS 1		18	L41848	SWITCH, PUSH-BUTTON <i>(starter)</i> . 1	
09	L71077	SWITCH, HAZARD LIGHTS 1		19	L41848	SWITCH, PUSH-BUTTON <i>(horn)</i> . . 1	
10	L71083	SWITCH, STROBE 1					
11	L71088	HOLE PLUG, SWITCH AR <i>(used to plug empty switch hole)</i>					



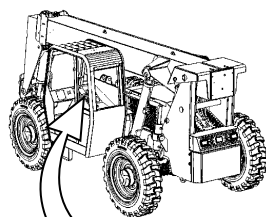
NOTE: Switches shown in the Illustration or listed on this page are for reference purposes only—your machine may be configured differently than shown here.



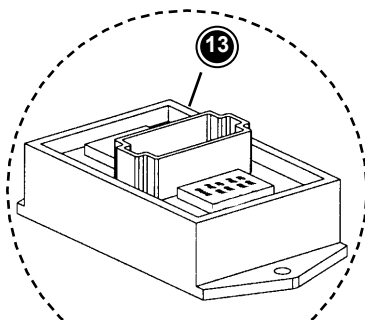
Cab

RS Series

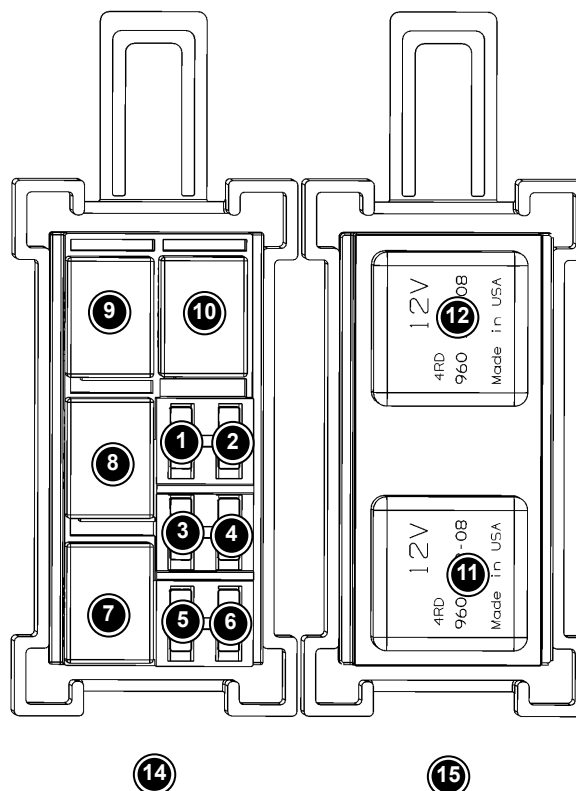
Fuses, Relays, and Wire Harnesses



(Fuses, relays, and transmission shift module are located inside the cab under the load chart panel on the dash.)



Shift Module
(located next to the fuses and relays)



Ref.	Part No.	Description	Function/Comments
01	103099	MINI FUSE, 15 AMP	(BATTERY) IGNITION SWITCH, HORN, BRAKE LIGHT, CLUTCH CUT-OUT
02	104769	MINI FUSE, 20 AMP	(IGNITION) TRANSMISSION, PARK BRAKE, PWP, STEER SELECT
03	103099	MINI FUSE, 15 AMP	(IGNITION) LIGHTS, OUTRIGGERS
04	103221	MINI FUSE, 25 AMP	(IGNITION) HEATER, CAN DISPLAY
05	103221	MINI FUSE, 25 AMP	(IGNITION) TOP WIPER
06	103221	MINI FUSE, 25 AMP	(IGNITION) FRONT WIPER
07	103100	MICRO RELAY, 20 AMP	TOP WIPER
08	103100	MICRO RELAY, 20 AMP	LIGHTS
09	103100	MICRO RELAY, 20 AMP	PARK BRAKE
10	103100	MICRO RELAY, 20 AMP	FRONT WIPER
11	L70075	CHANGE-OVER RELAY	IGNITION
12	L70075	CHANGE-OVER RELAY	IGNITION
13	101877	MODULE, SHIFTER	

FUSE BOX AND RELAY BOX COVERS—(NOT SHOWN)

14	50380751	FUSE & MICRO RELAY COVER
15	272648	RELAY BOX COVER

MAIN WIRE HARNESSES—(NOT SHOWN)

--	50380141	WIRE HARNESS, FRAME
--	210704	WIRE HARNESS, CANOPY
--	50380149	WIRE HARNESS, IT4 - ECU INTERFACE/ENGINE
--	50380315	WIRE HARNESS, FUEL FILTERS (engine) (14" long)
--	50380463	WIRE HARNESS, FUEL FILTERS (engine) (6" long)
--	102572	WIRE HARNESS, LIGHT PACKAGE (option) - Refer to page 23 for more information.

NOTE: For additional wire harnesses, refer to their relative location in this parts manual (e.g., Boom section for boom lights).

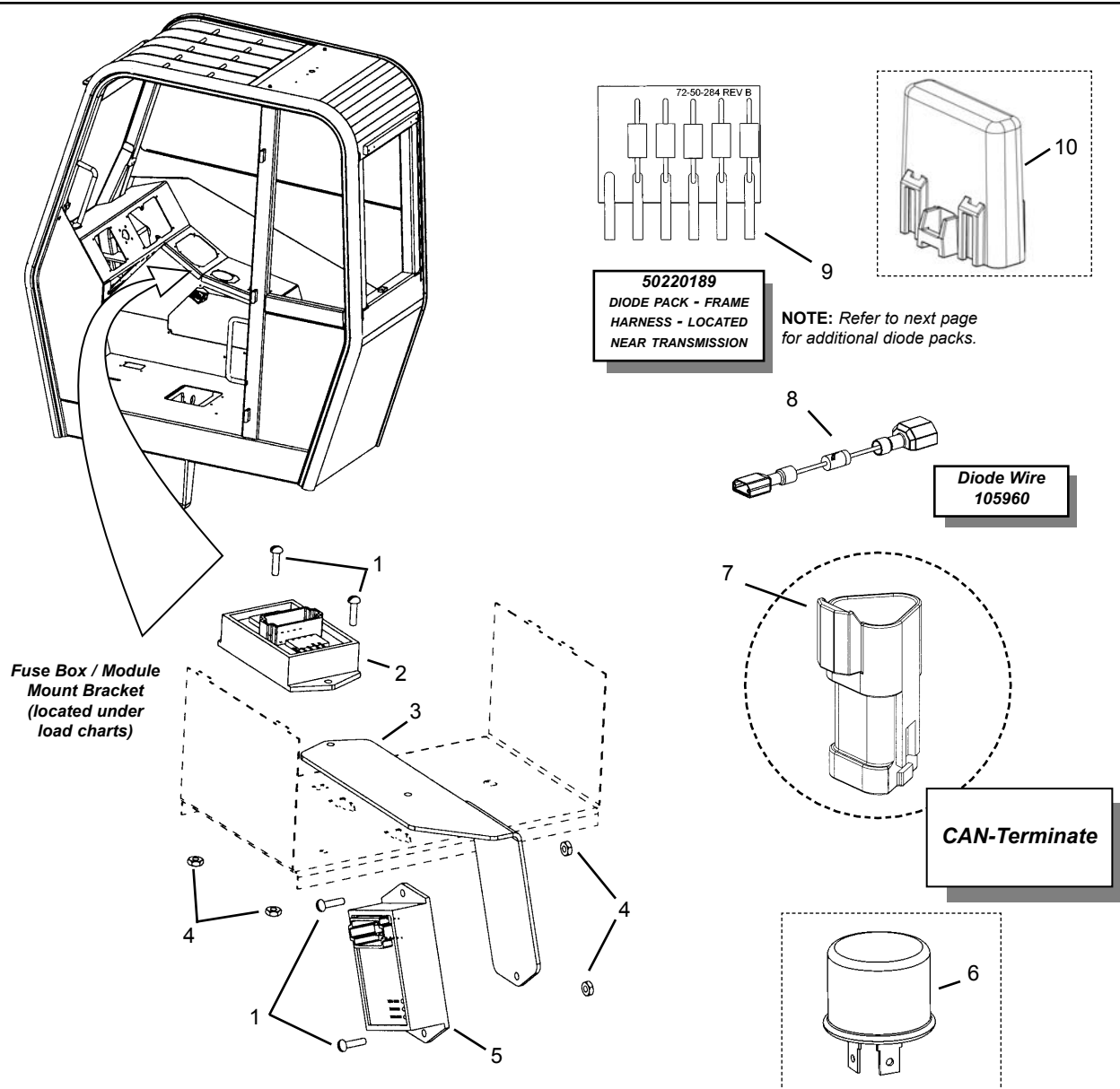
NOTE: Fuses, relays, and other items shown on these pages are for reference purposes only; your machine might be configured differently and might not include the options shown on this—or other pages—in this parts manual.



Telescopic Handler

Cab

Fuses, Relays, and Wire Harnesses



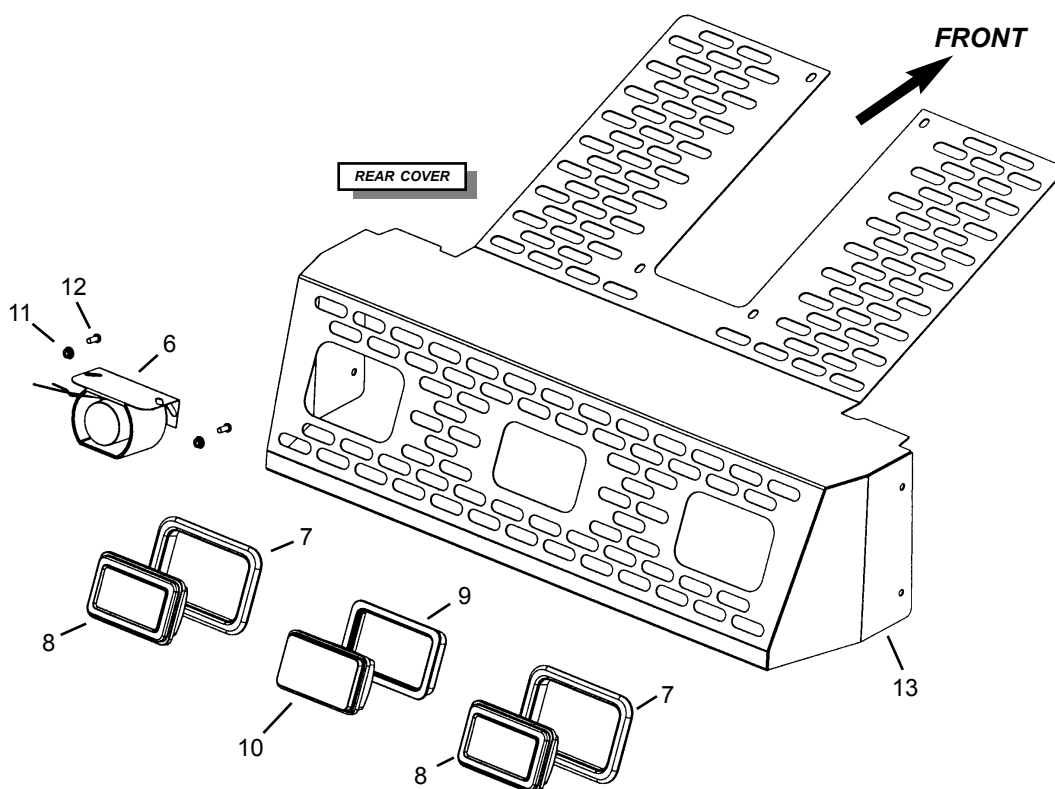
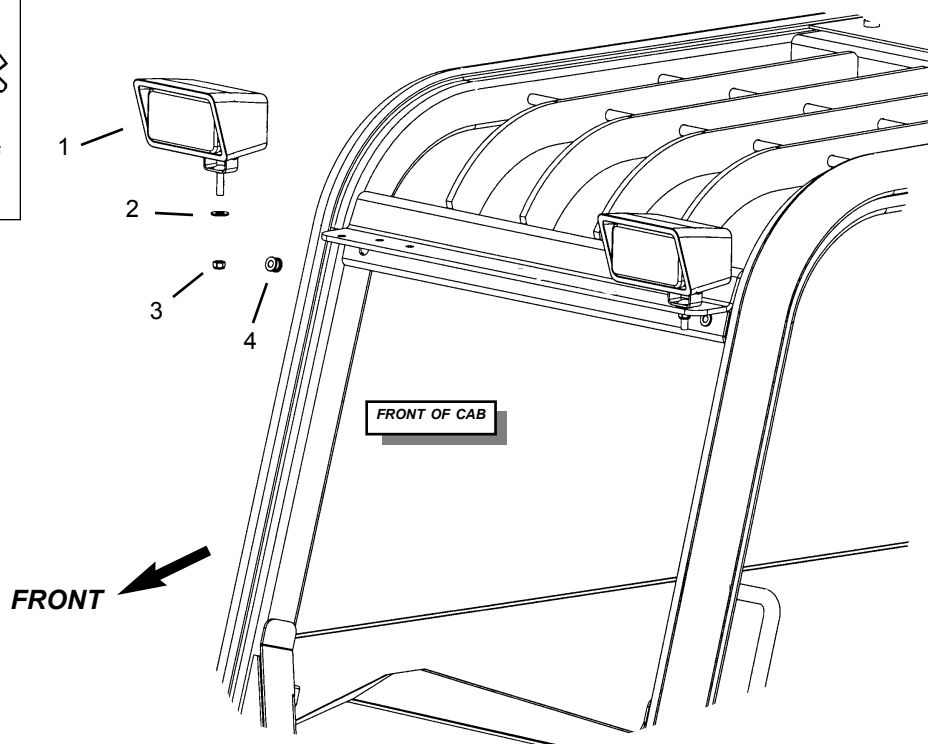
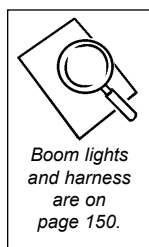
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L50491	#8-32X5/8" SCREW	4	08	105960	DIODE WIRE	1
02	101877	MODULE, F-N-R SHIFTER	1			(Located under the dash; attaches to park brake switch—clutch cut-out side of the switch.)	
03	210797	BRACKET, BRAKE MODULE	1	09a	50220189	DIODE PACK, 5 DIODES	1
04	L50538	#8-32 NUT	4			(Included with frame wire harness.)	
05	210614	MODULE, BRAKE WARNING	1	10	L500747	CLEAR COVER, DIODE PACK	1
06	L63894	TURN SIGNAL FLASHER	1				
		(Located inside joystick access cover)					
07	106001	CAN, TERMINATE RECEPTACLE	1	a		Additional diodes are shown on the next page.	
		(Included with wire harness.)					



Cab

RS Series

Front and Rear Lights





Telescopic Handler

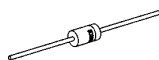
Cab

Front and Rear Lights

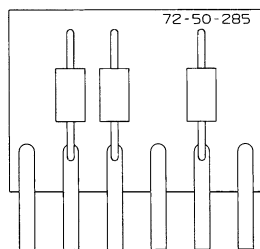
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70039	HEAD LIGHT	2	-- ITEMS NOT SHOWN --			
02	654006	3/8" FLAT WASHER	2	--a	102647	WIRE HARNESS, REAR LIGHTS. . .	1
03	L520005	3/8"-16 NYLON INSERT NUT	2	--b	102572	HARNESS, LIGHT PACKAGE	1
04	101712	GROMMET, 5/8"	2			(dash to rear lights - includes the	
06	L70200	BACKUP ALARM.	1			following diodes:)	
	L50202	1/4"-20X5/8" BOLT, BTNHEAD	2		103101	DIODE PACK (see below).	1
	L50051	1/4"-20 FLANGE NUT	2		L500748	DIODE PACK (see below).	1
07	L500339	BEZEL, RUBBER	2		L500747	CLEAR COVER, DIODE PACK . . .	2
		(included with item 8)				(see below)	
08	L70701	LIGHT, BRAKE/TURN	2		L500747	CLEAR COVER, DIODE PACK . . .	2
		(includes item 7 bezel; also includes				(see below)	
		the light's plug-in connector)			L60587	IN-LINE DIODE (see below)	2
09	L500606	BEZEL, RUBBER	1			(located between diode pack and	
		(included with item 10)				back-up alarm connection)	
10	L71595	LIGHT, HALOGEN BACKUP.	1				
		(includes item 9 bezel)		--	L63894	TURN SIGNAL FLASHER.	1
	100102	JUMPER WIRE, BACKUP LIGHT . . .	1			(located under dash through joystick	
11	L50202	1/4"X5/8" BTN HD BOLT	2			access cover)	
12	L50051	1/4"-20 FLANGE NUT	2	--	L70241	HARNESS, HEAD LIGHT	2
13	210442	REAR COVER.	1			(dash to head lights)	
				--	103192	GROMMET, 13/16"	2
						(under dash for head light harness)	

a Standard wire harness, used when not equipped with turn signals.

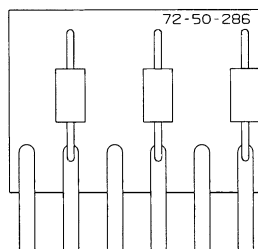
b Used with optional light package for units equipped with turn signals. Wire harness 102647 is not used when unit is equipped with turn signals.



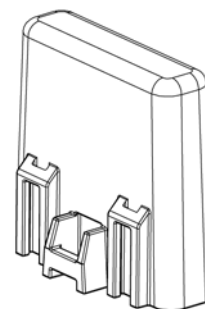
In-line Diode
L60587



103101
DIODE PACK
LOCATED NEAR
REAR LIGHTS

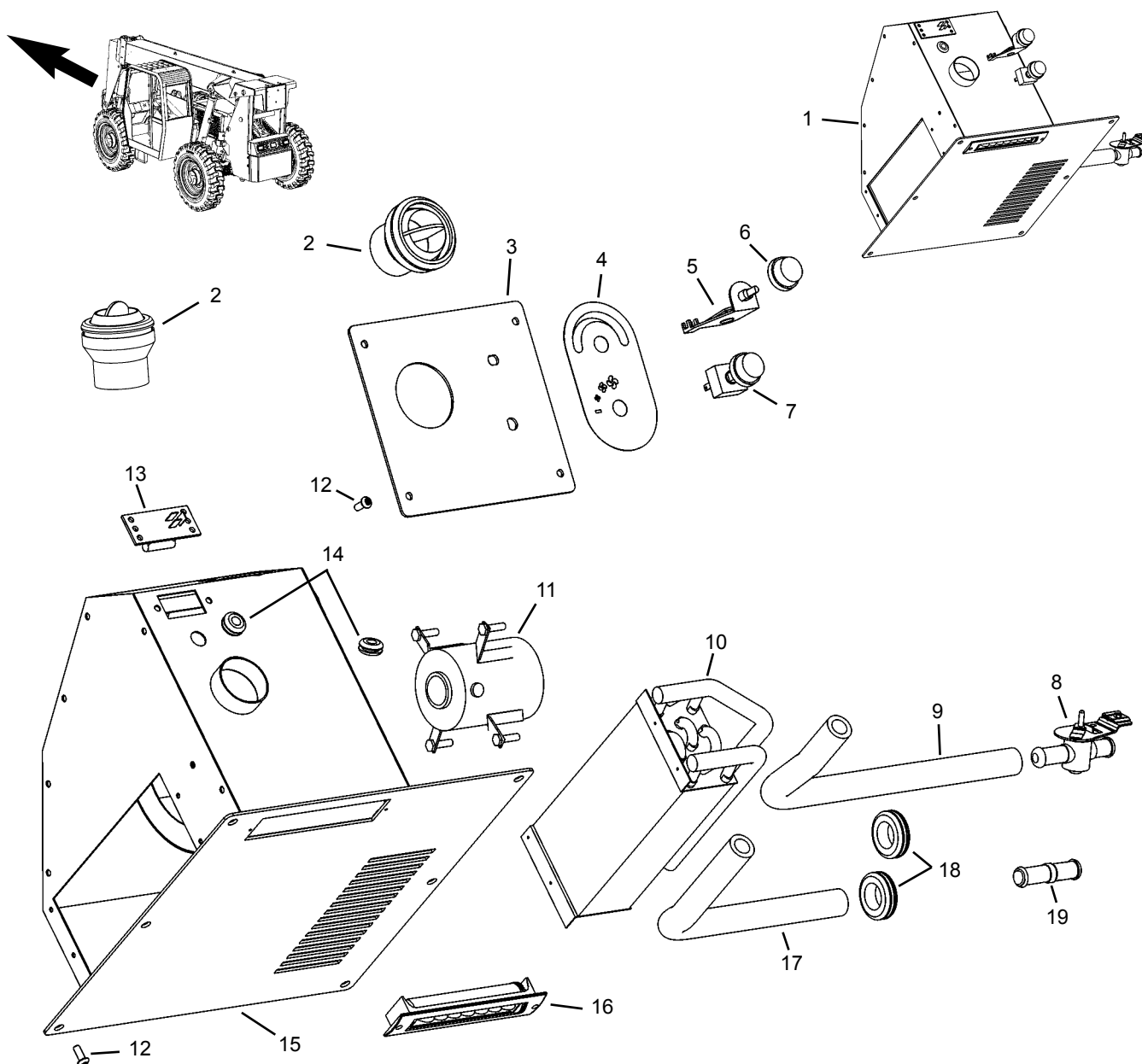


L500748
DIODE PACK
LOCATED UNDER DASH
NEAR SWITCHES



L500747
DIODE PACK
CLEAR COVER

NOTE: Refer to previous page for frame harness diode pack.

**Cab****Heater - (Option) - (No A/C)****RS Series**

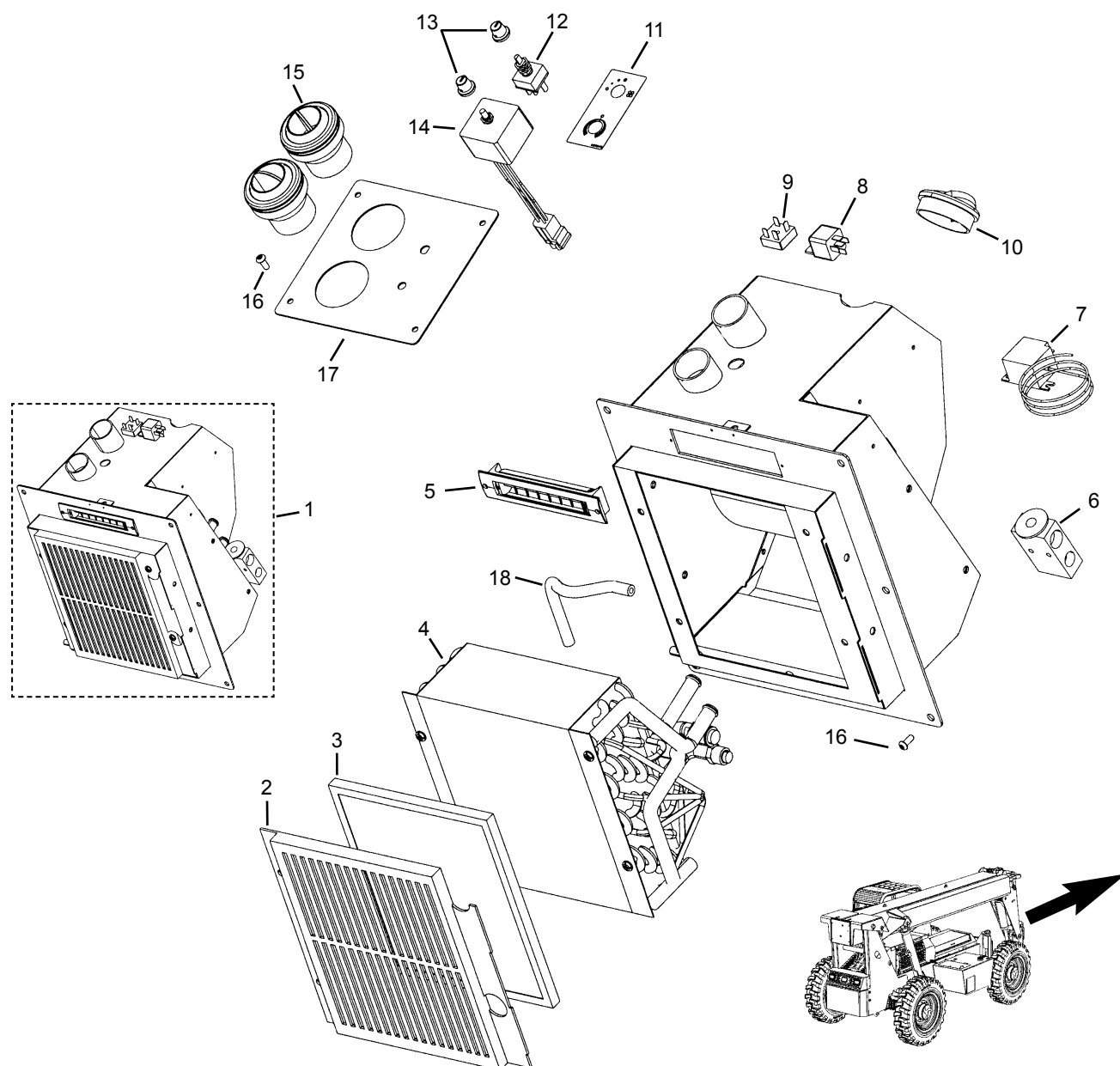
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	102907	HEATER ASSEMBLY 1 (Includes items 5-11; 13-19)		09	NSS	HOSE, 5/8" - FORMED..... 1	
02	L63545	GRILL, DEFROSTER 2		10	50380847	HEATER CORE..... 1	
03	102944	INSTRUMENT PANEL..... 1		11	103033	BLOWER MOTOR..... 1 (does not include fan/cage)	
04	102945	DECAL, HEAT CONTROL..... 1		12	L50202	1/4"-20X5/8" BUTTN HD BOLT... 10	
05	187841	CONTROL, TEMPERATURE 1 (does not include knob)		13	136310	RESISTOR BLOCK..... 1	
06	273968	KNOB (not included with item 5)... 1		14	NSS	GROMMET 5/8" OD X 3/8" ID.... 2	
07	136305	SWITCH, VARIABLE SPEED 1		15	NSS	HOUSING 1	
	50300066	PANEL MOUNT NUT (included) ... 2		16	137503	LOUVER 1	
		(NOTE: switch includes knob; knob not sold separately)		17	NSS	HOSE, 5/8" - FORMED..... 1	
08	L500163	VALVE, WATER..... 1		18	NSS	GROMMET 1-3/8" OD X 1" ID 2	
				19	NSS	HOSE COUPLER 1	



Telescopic Handler

Cab

A/C - Heater - (A/C - Option)

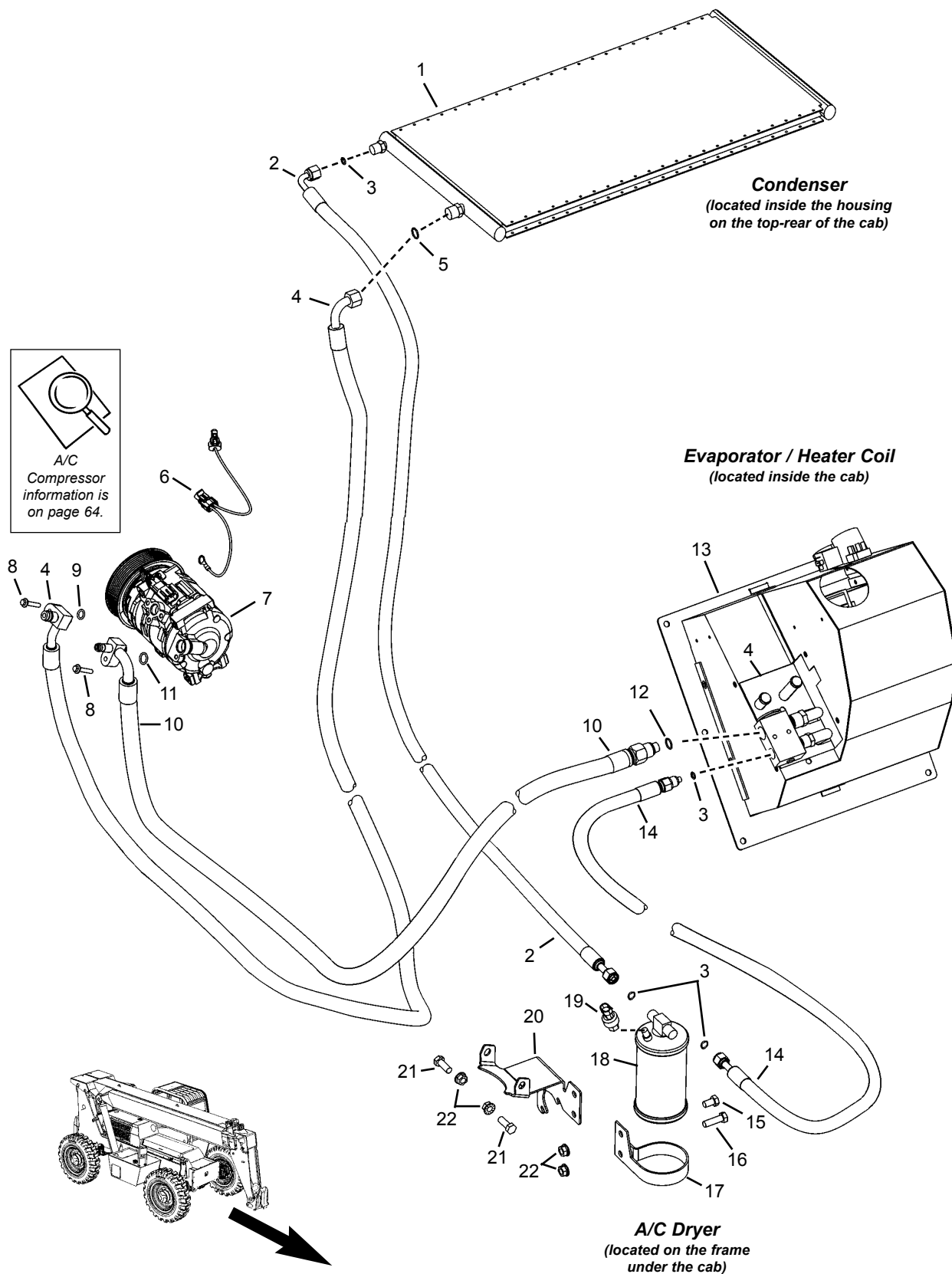


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	210796	HVAC ASSEMBLY.....1 (Includes items 2-9)		10	420-36290	LOUVER.....1	
	211147	FAN ASSEMBLY (only).....1		11	189049	DECAL, A/C HEATER CONTROL..1	
02	211145	FILTER COVER.....1		12	136305	SWITCH, VARIABLE SPEED.....1	
03	211146	FILTER, CAB AIR.....1			50300066	PANEL MOUNT NUT (included)...2	
04	211149	EVAPORATOR/HEATER COIL...1		13	139279	KNOB.....2	
05	137503	LOUVER.....1		14	189033	MODULE, A/C CONTROL.....1	
06	211148	EXPANSION VALVE.....1		15	L63545	GRILL, VENT.....2	
07	138623	COLD CONTROL SWITCH.....1		16	L50202	1/4"-20X5/8" BUTTN HD BOLT...10	
08	242145	RELAY.....1		17	211023	PANEL, HVAC CONTROL.....1	
09	242875	RECTIFIER PACK.....1		18	201179	HOSE, OVERFLOW.....1	



Cab A/C Circuit (Option)

RS Series



**Telescopic Handler****Cab*****A/C Circuit (Option)***

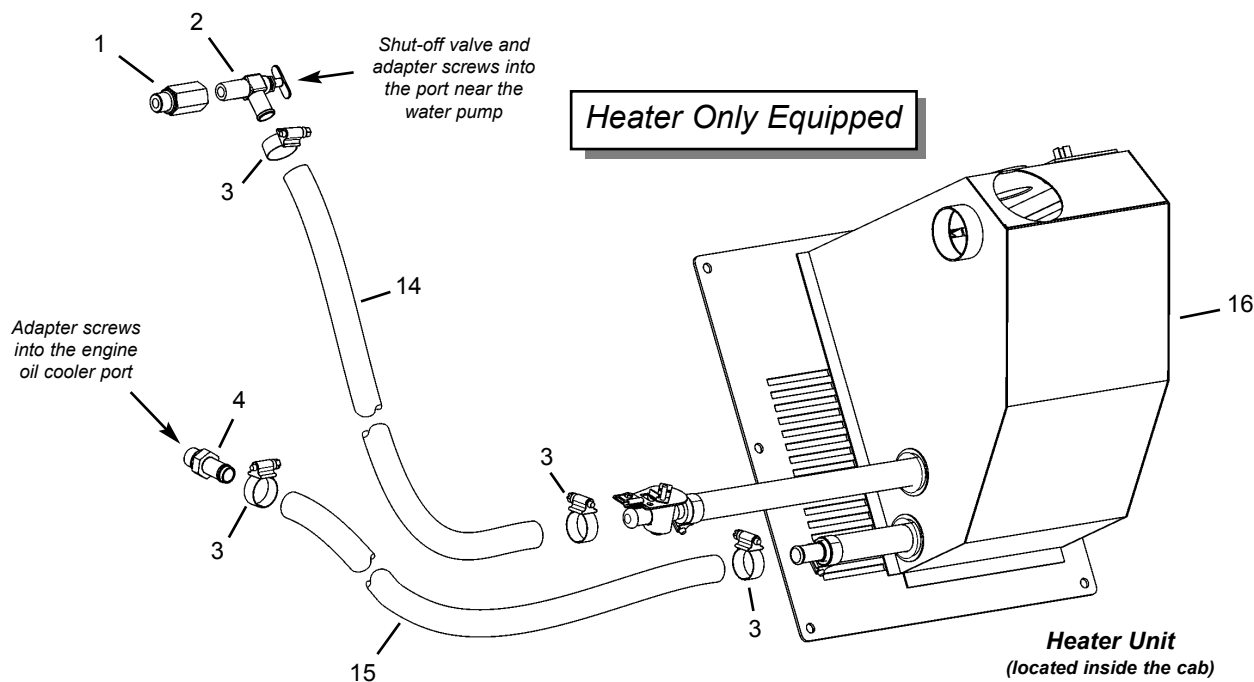
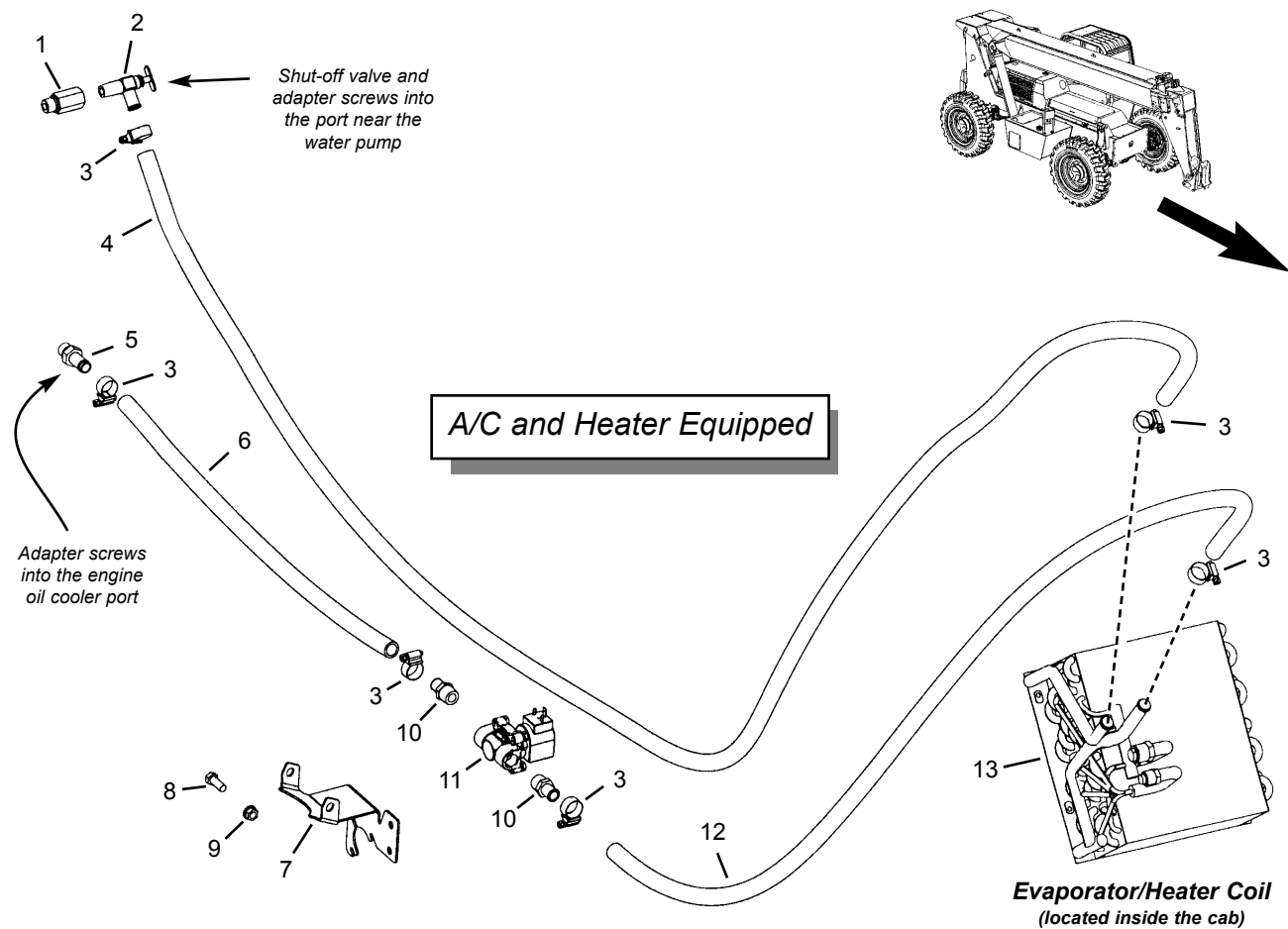
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L500595	CONDENSER	1	12	138779	O-RING	1
02	211010	HOSE, #6 COND./DRYER	1	13	210796	HVAC UNIT (<i>Evaporator/Heater</i>)...	1
03	138777	O-RING	4	14	211009	HOSE, #6 DRYER/EVAP.	1
04	50380458	HOSE, #8 COND./COMP.	1	15	650450	CS 3/8 x 5/8 C5ZY	1
05	138778	O-RING	1	16	650491	CS 3/8 x 1-1/4 C5ZY	1
06	50380460	A/C COMPRESSOR HARNESS...	1	17	138651	CLAMP, DRYER	1
07	50380423	A/C COMPRESSOR	1	18	138649	A/C DRYER.....	1
08	651759	CS M6-10.0x30	2	19	138714	SWITCH, BINARY.....	1
09	50380445	O-RING	1	20	211055	MOUNT, DRYER / VALVE.....	1
10	50380459	HOSE, #10 COMP./EVAP.	1	21	650490	CS 3/8 x 1 C5ZY	2
11	50380446	O-RING	1	22	090666	HN FL SLOC 3/8 CZY.....	4



Cab

Heater Circuit (Option)

RS Series



**Telescopic Handler****Cab*****Heater Circuit (Option)***

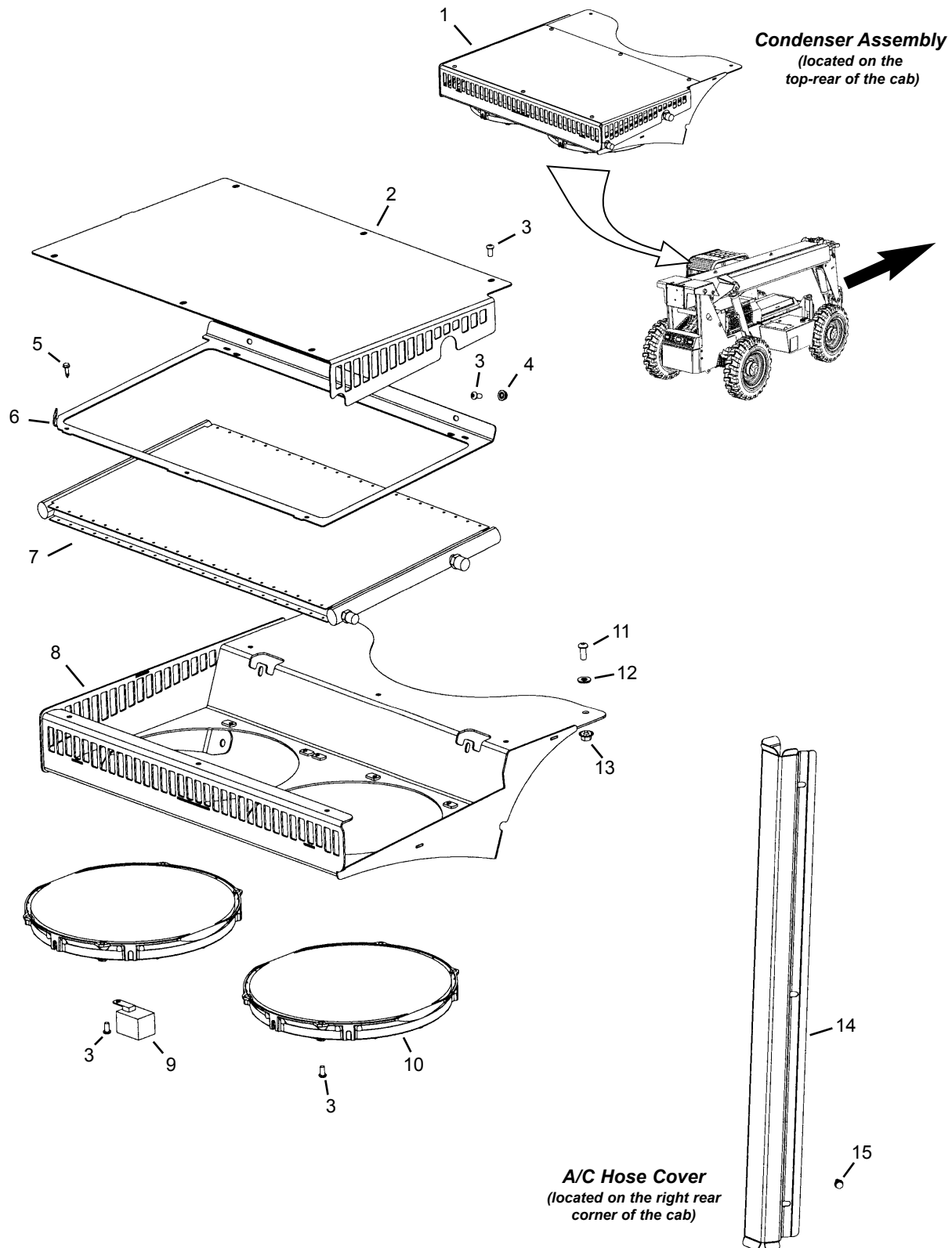
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	210049	ST-LL FP06-ISO6149-18.....	1	10	186193	ST 1/2MPT x 5/8" HOSE.....	2
02	L68592	SHUT-OFF, MANUAL	1	11	186703	HEATER-A/C SOLENOID	1
03	095955	CLAMP, HOSE #10	6	12	230209	HOSE, HEATER 5/8" x 60"	1
04	230210	HOSE, HEATER 5/8" x 108"	1		272546	SPRING GUARD <i>(not shown)</i>	1
	272546	SPRING GUARD <i>(not shown)</i>	1	13	211149	EVAPORATOR/HEATER COIL	1
05	L447005	ST HB10-ISO6149-18	1			<i>(refer to page 25 for parts listing)</i>	
06	230208	HOSE, HEATER 5/8" x 36"	1	14	NSS	HEATER HOSE 5/8" x 60"	1
07	211055	MOUNT, DRYER / VALVE.....	1	15	NSS	HEATER HOSE 5/8" x 48"	1
08	650490	CS 3/8 x 1 C5ZY	2	16	102907	HEATER ASSEMBLY	1
09	090666	LN FL SERR 3/8 CZY	5			<i>(refer to page 24 for parts listing)</i>	



Cab

A/C Condenser - (A/C Equipped - Option)

RS Series



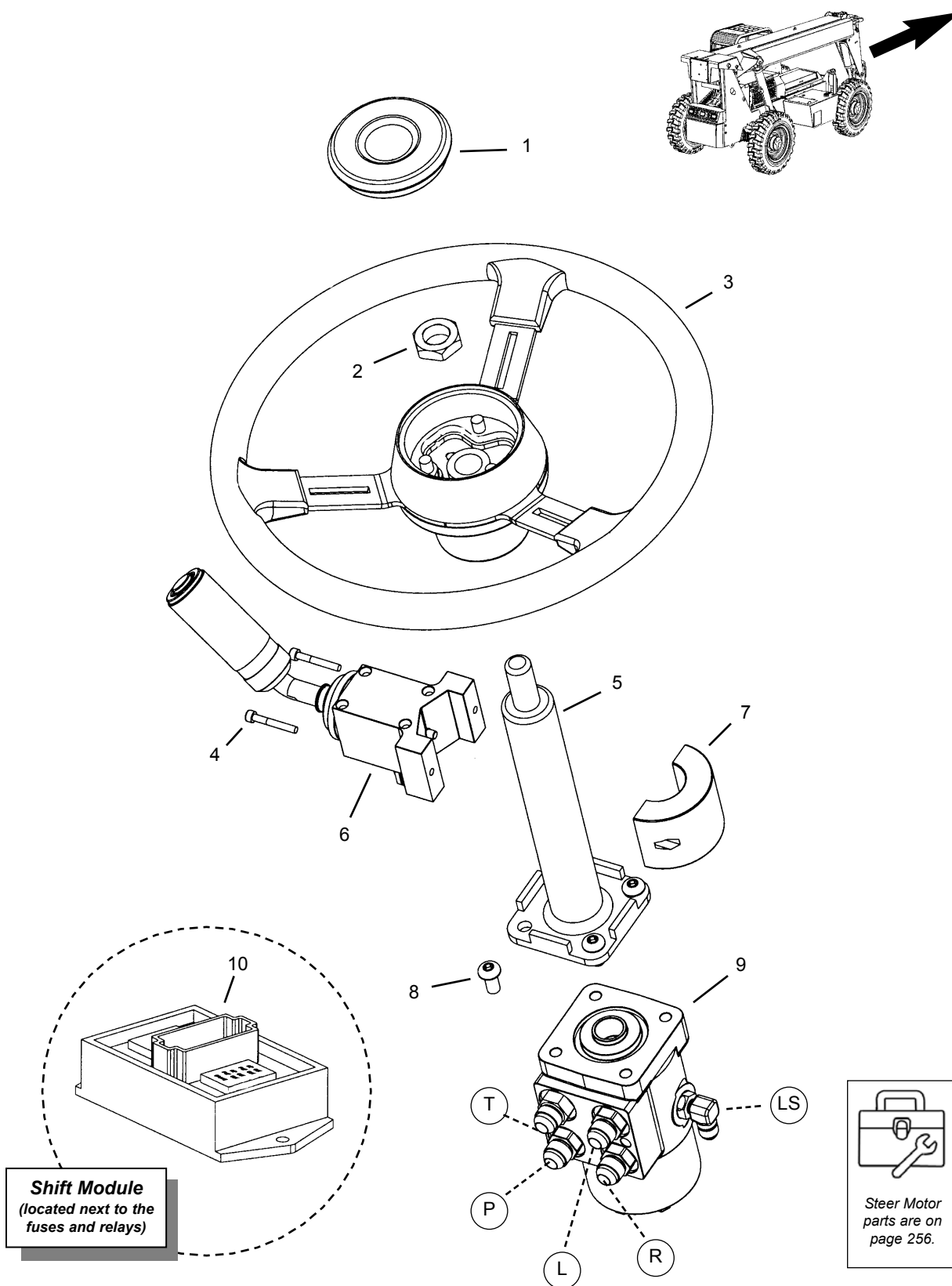
**Telescopic Handler****Cab*****A/C Condenser - (A/C Equipped - Option)***

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	211052	CONDENSER ASSEMBLY 1 <i>(includes items 1-10)</i>		08	211045	CONDENSER HOUSING 1	
02	211039	COVER, CONDENSER HOUSING . 1		09	420-35602	RELAY 1	
03	089888	BHSCS 1/4" x 1/2" 17		10	L500594	CONDENSER FAN ASSEMBLY . . . 2	
04	L50051	FLANGE LN 1/4"-20 2		11	651640	BHSCS 5/16" x 3/4" 4	
05	L500596	SELF-TAP SCREW 3/16" x 5/8" . . 6		12	210765	FW 5/16" ZY SEALING 4	
06	211035	MOUNT, CONDENSER COIL 1		13	070648	LN LG FL SERR 5/16 CZ 4	
07	L500595	CONDENSER COIL 1		14	210833	COVER, A/C HOSES 1	
				15	650315	SELF-TAP SCREW 1/4" x 1/2" . . . 3	



Cab Steering Column Components

RS Series





Telescopic Handler

Cab

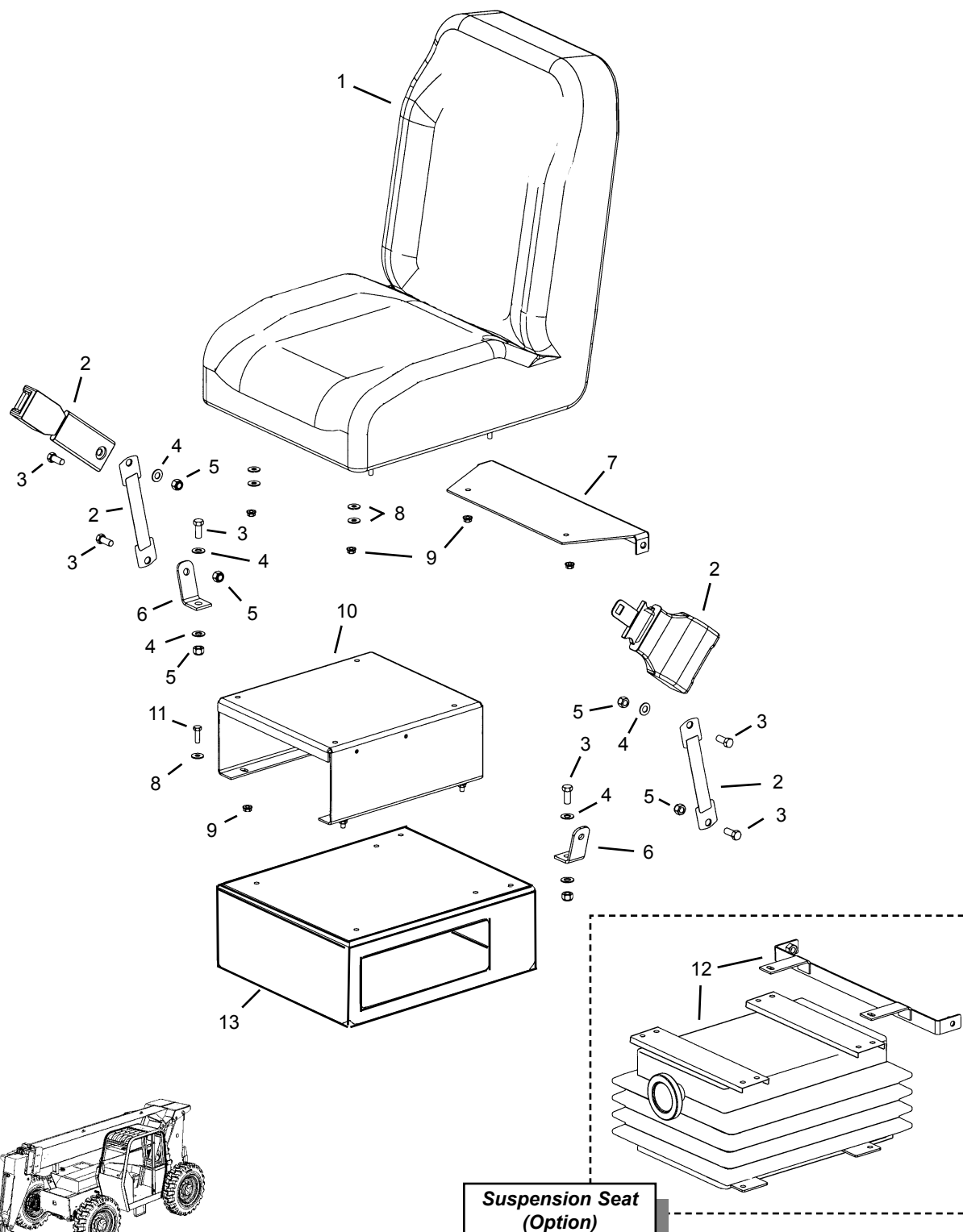
Steering Column Components

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	103359	CAP, STEERING WHEEL	1	08	651625	3/8"-16X1-1/4" BUTTN HD BOLT . .	4
02	L41261	NUT, STEERING WHEEL	1	09	101880	MOTOR, STEER	1
03	L69595	STEERING WHEEL	1	10	101877	MODULE, F-N-R SHIFTER.	1
04	L50101	M5X.8X35mm HX SKTHD BOLT . .	2		L50491	#8-32X5/8" SCREW	2
05	102783	COLUMN, STEERING.	1		L50538	#8-32 NUT	2
06		F-N-R/SHIFTER (includes #7).	1				
	L68772	Note x		x		Only RS6-42 and RS8-42/44	
	210479	Note y		y		Only RS10-44/55 and RS12-42	
	L99425	BOOT (fits both shifters).	1				
07	105236	CLAMP, SHIFTER(included w/ #6) .	1				



Cab Seat

RS Series





Telescopic Handler

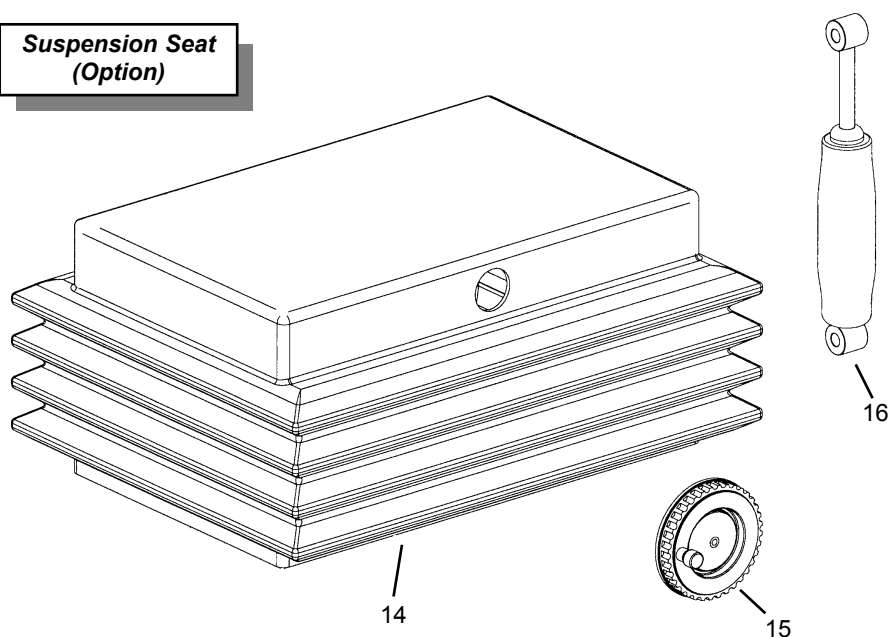
Cab Seat

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	210170	SEAT	1	13	103195	PEDESTAL / BOLT ON SEAT	1
02	L70634	SEAT BELT <i>(includes tethers)</i>	1		650490	3/8"X1" BOLT	2
03	650630	7/16"-20X1" BOLT	AR		650533	3/8"X1-1/2" BOLT	2
04	L50196	7/16" FLAT WASHER	AR		654006	3/8" FLAT WASHER	8
05	L50517	7/16"-20 NYLON INSERT NUT	AR		L520005	3/8" NYLON INSERT NUT	4
06	L70212	BRACKET, TETHER	2	14 ^b	210403	BELLOWS, SEAT <i>(boot only)</i>	1
07 ^a	L70201	MOUNT, SEAT BELT	1	15 ^b	210405	ADJUSTMENT KNOB	1
08	654004	5/16" FLAT WASHER	AR	16 ^b	210404	SHOCK, SUSP. SEAT	1
09	L50056	5/6"-18 NYLON INSERT NUT	AR				
10 ^a	100071	SEAT RISER	1				
11	650487	5/16"-18X1" BOLT	AR				
12 ^b	L68496	BELLOWS, SUSPENSION SEAT <i>(includes seat belt / tether bracket)</i>	1				

a Used for standard seat only; not used with suspension seat option.

b Used for suspension seat option only.

**Suspension Seat
(Option)**

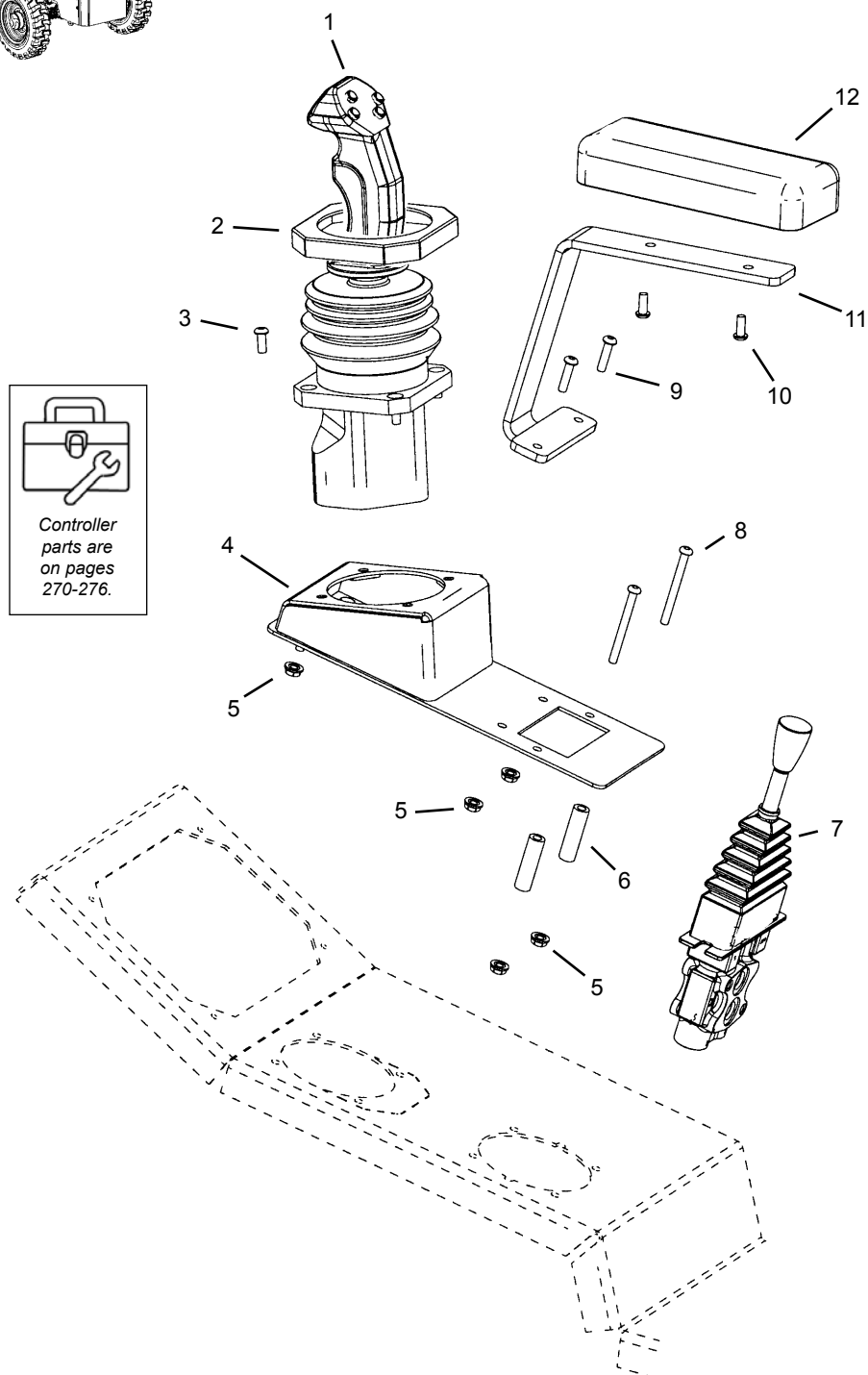
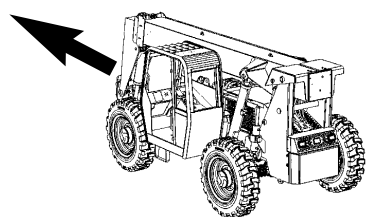




Cab

RS Series

Tri-Function Cab Components - Option





Telescopic Handler

Cab

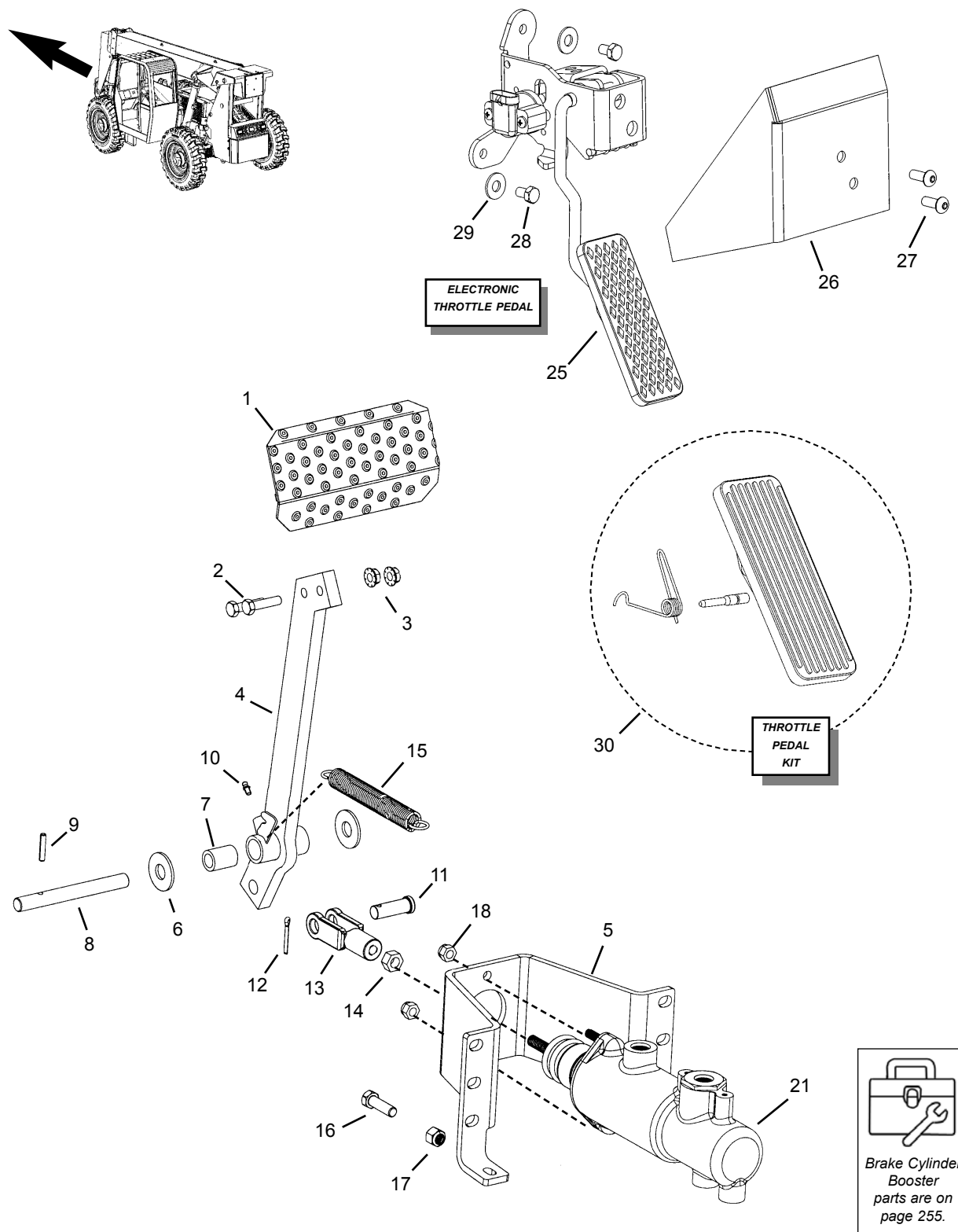
Tri-Function Cab Components - Option

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	104083	CONTROLLER, 4 BTN/W TRIG . . .	1	07	102435	CONTROLLER, LEVEL	1
02	104304	BEZEL, JOYSTICK	1	08	104219	1/4"-20X2-1/2" BTN HD BOLT	2
		<i>(included with item 1)</i>		09	L52024	1/4"-20X1" BTN HD BOLT	2
03	L50202	1/4"-20X5/8" BTN HD BOLT	AR	10	L52024	1/4"-20X1" BTN HD BOLT	2
04	103582	JOYSTICK MOUNT	1	11	103708	BRACKET, ARM REST	1
05	L50051	1/4"-20 FLANGE LOCK NUT	AR	12	L69756	PAD, ARM REST	1
06	104214	SPACER, LEVEL CONTROLLER . .	1				



Cab Brake and Accelerator Pedals

RS Series





Telescopic Handler

Cab

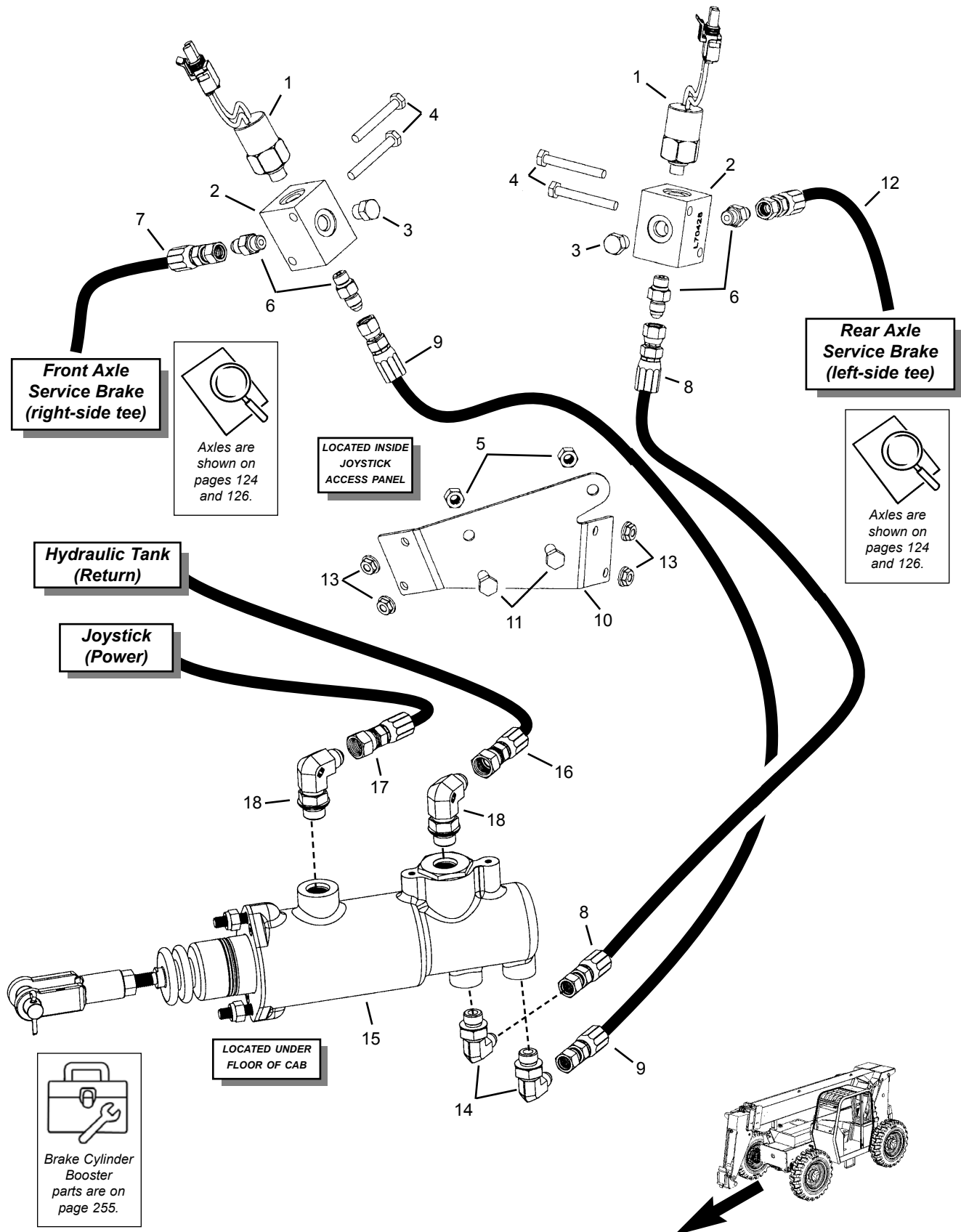
Brake and Accelerator Pedals

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L63230	PAD, BRAKE PEDAL	1	16	650491	3/8"X1-1/4" BOLT	4
02	L50235	5/16"-18X1-1/4" BOLT	2	17	L520005	3/8" NYLON INSERT NUT	4
03	L50056	5/16"-18 FLANGE NUT	2	18	651458	M8-1.25 LOCK NUT	1
04	210609	BRAKE LEVER ASSEMBLY	1	21	210253	BRAKE CYLINDER, BOOSTER . . .	1
		<i>(includes item 7)</i>		25	50381115	THROTTLE, ELECTRONIC	1
05	210317	BRACKET, BRAKE BOOSTER	1	26	105287	COVER, ELEC. THROTTLE	1
06	L50151	1/2" FLAT WASHER	1	27	L52025	5/16"-18X3/4" BUTTN HD BOLT . .	2
07	210608	BRONZE BUSHING	1		L530004	5/16"-18 RETAIN/CLIP NUT	2
		<i>(included with item 4)</i>		28	L50228	5/16"-18X3/4" BOLT	2
08	102529	PIN, BRAKE LEVER PIVOT	1	29	654004	5/16" FLAT WASHER	2
09	L50628	ROLL PIN, 0.19X1	1	30	107001	KIT, THROTTLE PEDAL	1
10	L10465	ZERK, GREASE 1/4"-28	1			<i>(Includes pedal, pin and spring only;</i>	
11	L44859	PIN, CLEVIS 1/2"X27/64"	1			<i>does not include electronic throttle.)</i>	
12	L50607	1/8"X1" COTTER PIN	1			-- ITEMS NOT SHOWN--	
13	210328	YOKE, CLEVIS M10X1.5	1			(Throttle Wire Harness)	
14	656049	M10-1.5 LOCK NUT	1				
15	L561004	SPRING, 13GA. 0.73X6"	1	--	50380309	WIRE HARNESS, THROTTLE	1



Cab Brake Valve

RS Series





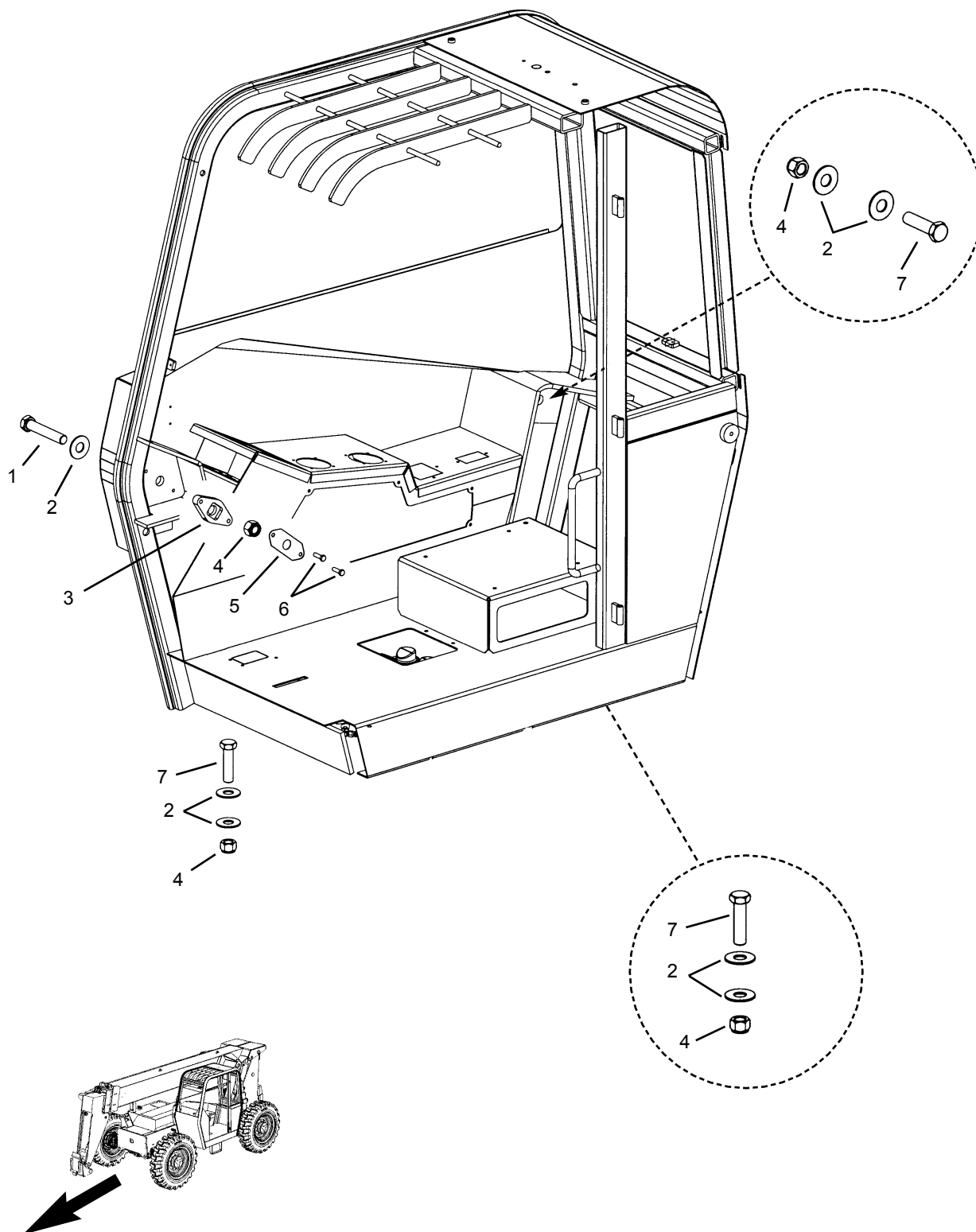
Telescopic Handler

Cab Brake Valve

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	210828	PRESSURE SWITCH (150 psi) . . .	2	10	210798	BRACKET, PRESS. SWITCH	1
02	L70428	MANIFOLD, BRAKE LINE	1	11	650486	5/16"X3/4" BOLT	2
03	230-32364	PLUG, -4ORM SAE	1	12	102840	HOSE, -4 A4/A6 90"	1
04	650706	1/4"X2" BOLT	4	13	L50051	1/4" FLANGE LOCK NUT	4
05	L520004	5/16" NYLON INSERT NUT	2	14	210449	ADAP., MJO4 MMAORB14 90°. . . .	2
06	230-32195	ADAP., -4ORM -4JICM	4	15	210253	BRAKE CYLINDER, BOOSTER . . .	1
07	102842	HOSE, -4 A4/A6 66"	1	16	L69920	HOSE, -4 A6/A6 40"	1
08	104111	HOSE, -4 A4/A4 18"	1	17	102843	HOSE, -4 A6/DS6 35"	1
09	104111	HOSE, -4 A4/A4 18"	1	18	210450	ADAP., MJ06 MMAORB16 90°	2

Cab Mounts

RS Series





Telescopic Handler

Cab Mounts

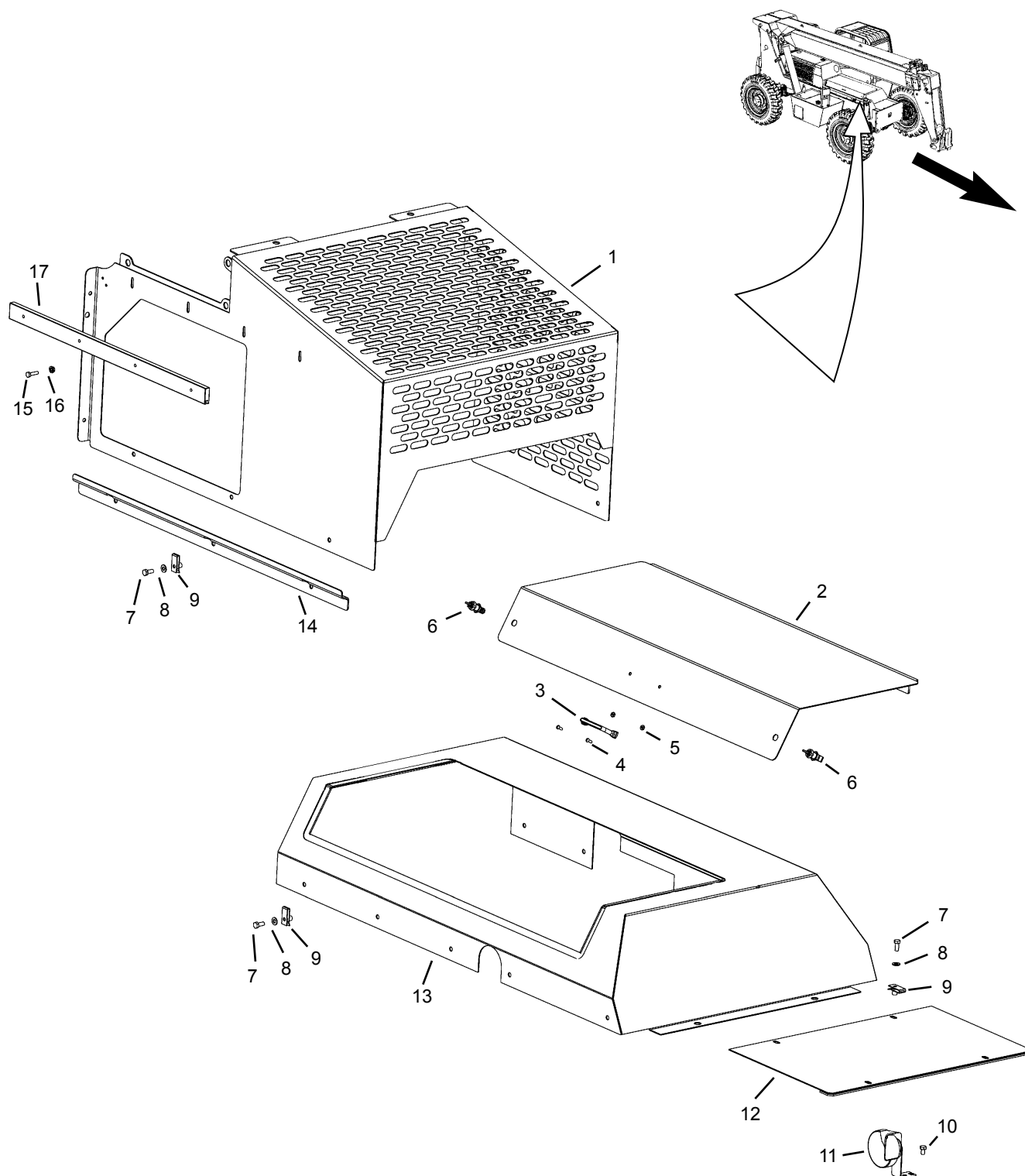
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102779	1"-8X5-1/2" GR8 BOLT	1	07	102883	1"-8X3-3/4" GR8 BOLT	3
02	651151	1" SAE FLAT WASHER	7				
03	102741	RETAINER, CANOPY NUT	1				
04	102781	1"-8 CLASS C LOCK NUT	4				
05	101667	WASHER, CANOPY NUT	1	--	L63813	-- ITEMS NOT SHOWN-- HOLE PLUG, 2-1/2" DIA	1
06	650491	3/8"-16X1-1/4" BOLT	2			(plugs hole in cab where side bolt attaches)	



Chassis

RS Series

Hoods and Covers - Front-Half





Telescopic Handler

Chassis

Hoods and Covers - Front-Half

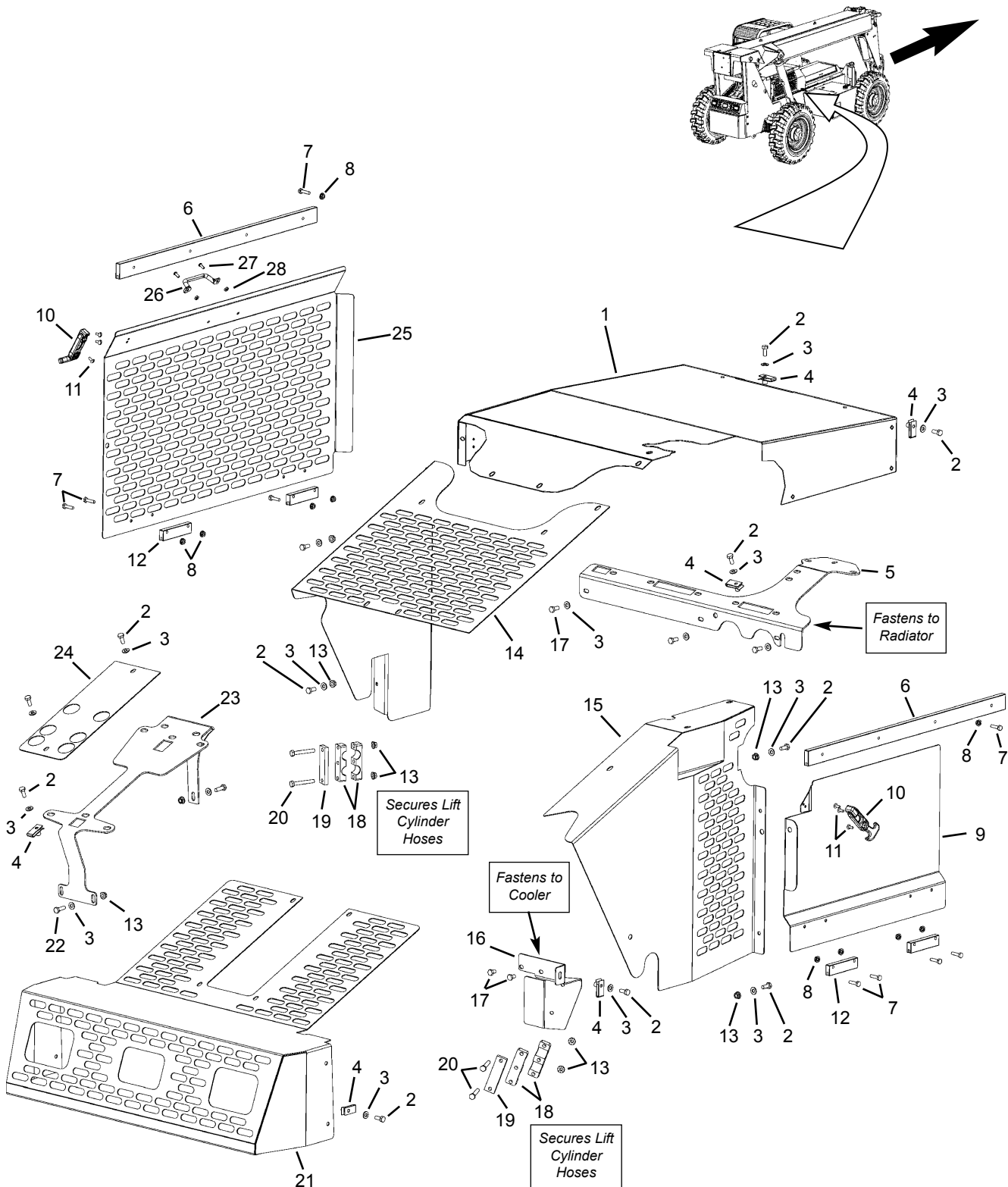
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380280	HOOD, ENGINE	1	12		COVER, FRONT FRAME	1
02	50380287	COVER, ACCESS	1		102423	<i>Note x</i>	
03	L64673	HANDLE	1		210764	<i>Note y</i>	
04	650387	#10-32X1/2" SCREW	2	13	50380281	HOOD, FRONT	1
05	L50050	#10-32 NUT	2	14	50380150	SLIDE RAIL	1
06	104222	LATCH	2	15	650835	CS 1/4"X1" C5ZY	AR
07	650486	5/16"-18X3/4" BOLT	AR	16	L50051	1/4" FLANGE LOCK NUT	AR
08	650810	5/16" FLAT WASHER	AR	17	L65896	GUIDE, NYLATRON 28" (<i>shown</i>) . .	1
09	L530004	5/16" RETAINED NUT CLIP	AR			(<i>An additional guide is used on the left side—refer to the next page.</i>)	
10	650484	5/16"X1/2" BOLT	1				
11	L41847	HORN, 12 VOLT	1				
				x		Only RS6-42 and RS8-42/44	
				y		Only RS10-44/55 and RS12-42	



Chassis

Hoods and Covers - Rear-Half

RS Series





Chassis

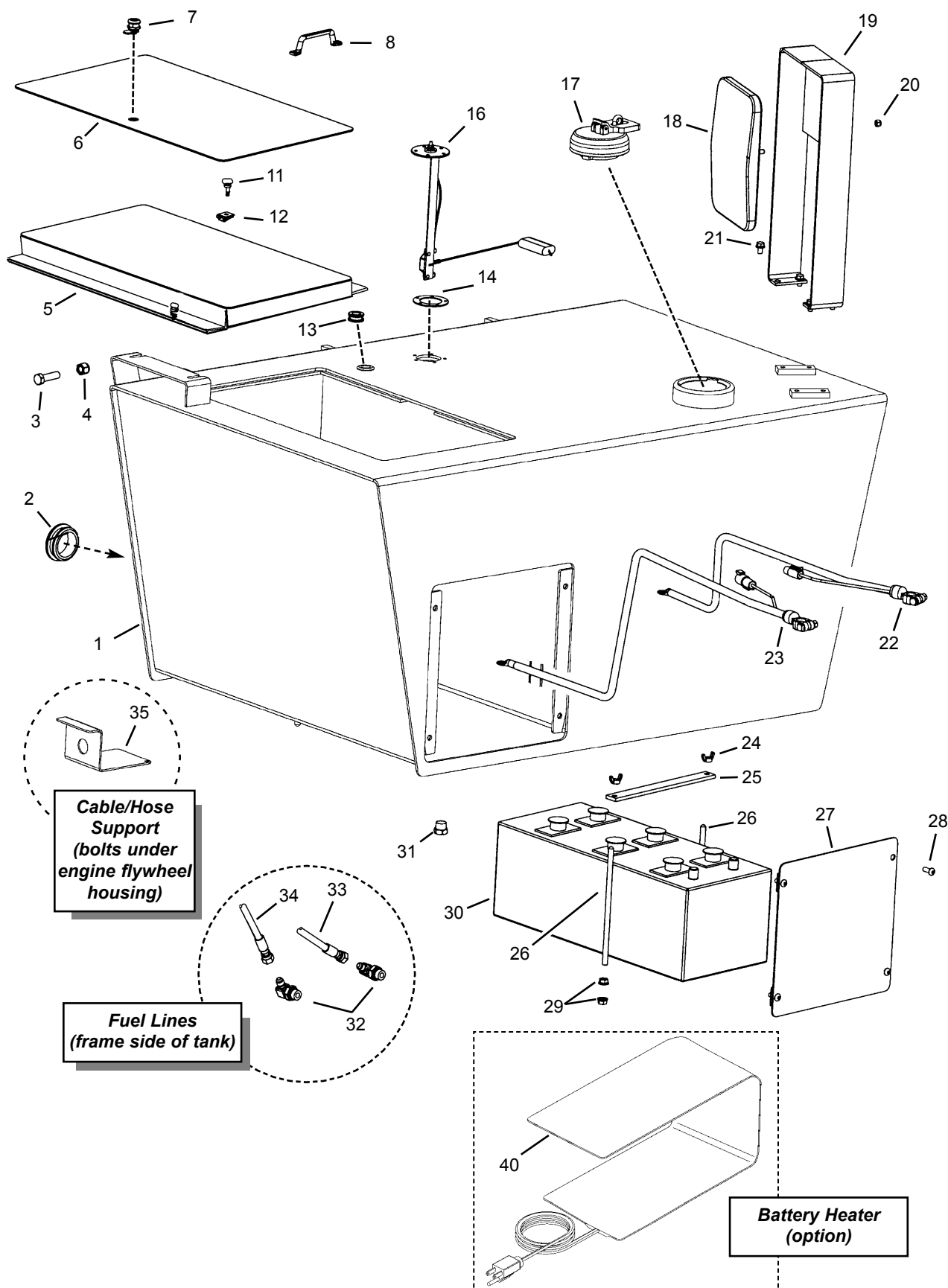
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380285	HOOD, TOP.....	1	19	L63719	PLATE, TWIN-WIDE TOP.....	2
02	650486	5/16"X3/4" BOLT.....	AR	20	650725	CS 5/16" x 2-1/4" C5ZY.....	4
03	650810	5/16" FLAT WASHER.....	AR	21	210442	REAR HOOD.....	1
04	L530004	FASTENER, RETAIN NUT.....	AR	22	650487	5/16"X1" BOLT.....	AR
05	50380026	BRACKET, HOOD/RADIATOR....	1	23	210368	SUPPORT, REAR COVER.....	1
06	L65896	GUIDE, NYLATRON 28".....	2	24	210375	COVER, MAIN VALVE.....	1
07	650835	CS 1/4"X1" C5ZY.....	AR	25	50380143	ACCESS PANEL, LH.....	1
08	L50051	1/4" FLANGE LOCK NUT.....	AR	26	L64673	HANDLE.....	2
09	50380015	ACCESS PANEL, RH.....	1	27	650387	#10-32X1/2" SCREW.....	AR
10	104225	LATCH, T-HANDLE.....	2	28	L50050	#10-32 NUT.....	AR
11	L50655	#10-24X1/2" RND HD SCREW....	6				
12	L64695	SLIDE, NYLATRON 4".....	4				
13	L50056	5/16" FLANGE LOCK NUT.....	AR				
14	50380122	COVER, LEFT SIDE.....	1	--	L500684	BOLT, 3/4-10" x 11" GR8.....	AR
15	50380288	COVER, RIGHT SIDE.....	1	--	L50084	NUT, 3/4" STOVER LOCK NUT..	AR
16	50380126	BRACKET, COVER.....	1			(used with 11" bolt)	
		(Fastens to the radiator.)		--	650711	BOLT, 3/4" X 3" GR5.....	AR
17	650484	CS 5/16"x1/2" C5ZY.....	5	--	079209	NUT, 3/4" NYLOCK CZY.....	AR
18	L63720	CUSHION. HOSE 7/8" TWIN.....	4			(used with 3" bolt)	



Chassis

Fuel Tank and Battery

RS Series



Telescopic Handler

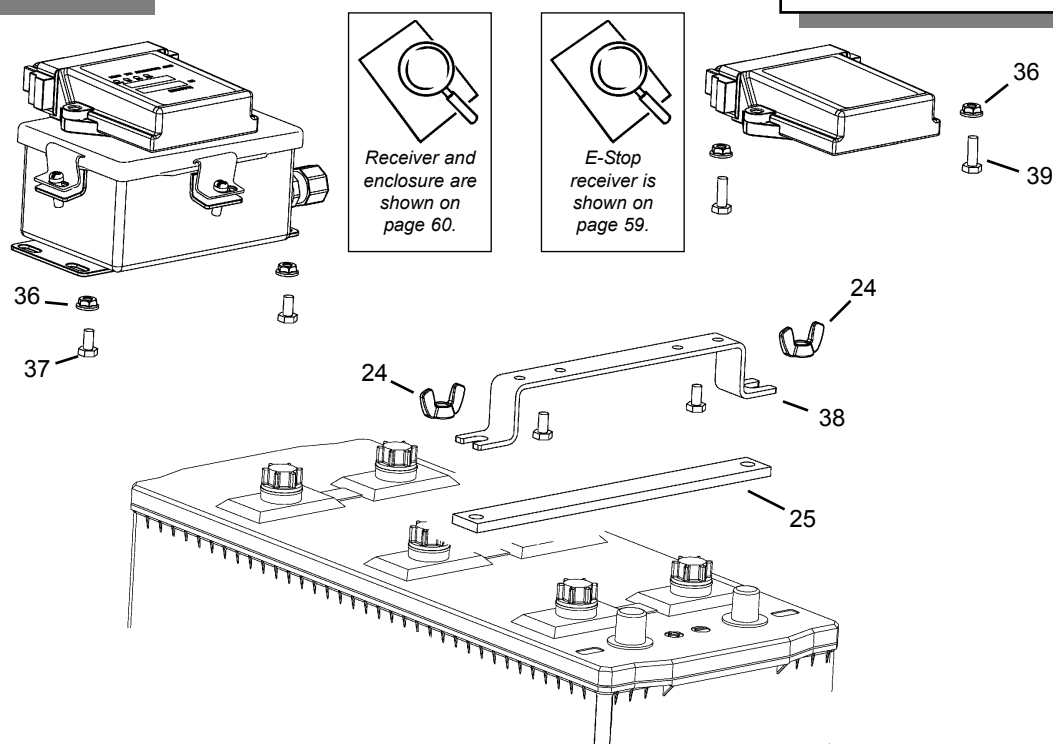
Chassis

Fuel Tank and Battery

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380276	WELDMENT, FUEL TANK.....	1	23	210205	CABLE, POS. BATTERY.....	1
02	101567	GROMMET, FUEL TANK.....	1		101960	POWER PLUG, RECEPTACLE...	1
03	650569	CS 1/2"-13x1-3/4" C5ZY.....	6		101963	#8 DEUTSCH PIN.....	1
04	L520019	1/2"-13 NYLON INSERT NUT.....	6	24	653098	3/8"-16 WING NUT.....	2
05	103892	PLATE, TOOLBOX BOTTOM.....	1	25	L61117	BATTERY HOLDDOWN BAR.....	1
06	210782	TOOLBOX COVER, WELDMENT..	1	26	L70146	ROD, BATTERY HOLDDOWN.....	2
07	L70225	CAMLOCK.....	1	27	101463	PLATE, BATTERY ACCESS.....	1
	L99157	KEY ONLY (<i>stamped CH751</i>).....	1	28	L52025	5/16"-18x3/4" BHSCS.....	4
08	L64673	HANDLE, HOOD.....	1	29	090666	3/8"-16 FLANGE NUT.....	4
	650387	#10-32x1/2" RND HD SCREW....	2	30	NSS	12VDC BC1 4DLT BATTERY.....	1
	L50050	#10-32 NUT.....	2	31	131529	ADAP., PLUG -8 O-RING SAE....	1
11	L68133	SCREW, CAPTIVE.....	2	32	110227	ADAP., -8ORM -6JICM 90°.....	2
	L68134	SCREW, RETAINER.....	2	33	50380316	HOSE, -6 K6/K6 82" (<i>supply</i>)....	1
12	L68135	SCREW, RECEPTACLE.....	2	34	104114	HOSE, -4 A6/NONE 100" (<i>return</i>)..	1
13	L63546	GROMMET.....	1	35	210200	BRACKET, CABLE/HOSE.....	1
14	L41854	GASKET, SENDER.....	1			(<i>supports fuel lines and cables</i>)	
16	L61867	SENDER/FUEL LEVEL.....	1	36	L50051	HN FLOC 1/4".....	2
		(<i>includes #14 Gasket</i>)		37	650481	CS 1/4" x 1/2" C5.....	2
17	210722	CAP/FUEL ASSEMBLY (<i>vented</i>)....	1	38	103627	MOUNT, RECEIVER.....	1
18	L63756	MIRROR, 6.5X10 CONVEX.....	1	39	650642	CS 1/4" x 1" C5.....	2
19	103991	MIRROR BRACKET.....	1	40	50381167	WRAP, BATTERY (<i>option</i>).....	1
20	L520003	1/4" NYLON INSERT NUT.....	1				
21	081379	5/16"x1/2 FLAT LOCK BOLT.....	4			-- ITEMS NOT SHOWN --	
22	101954	CABLE, NEG. BATTERY.....	1	--	L630003	RUBBER BOOT, BAT. CABLE.....	1
	101961	POWER PLUG, PLUG.....	1			(<i>used on positive battery cable</i>)	
	101962	#8 DEUTSCH SOCKET.....	1				

Radio Remote - (Option)
Early-Style Shown

E-Stop - (Option)
or Late-Style Radio
Remote Receiver

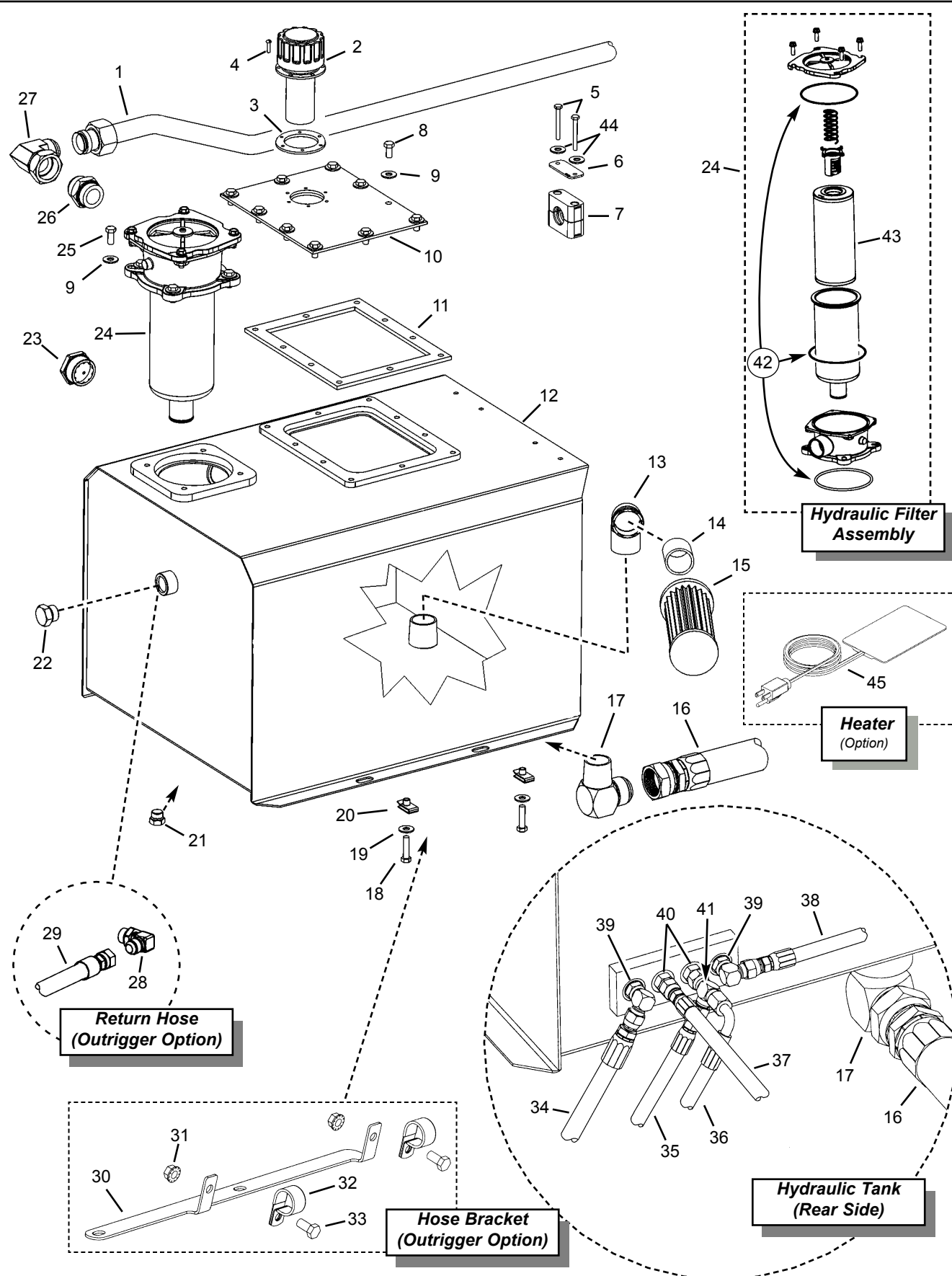




Chassis

Hydraulic Tank

RS Series





Telescopic Handler

Chassis Hydraulic Tank

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380024	HYDRAULIC OIL TUBE ASY.	1	30 ^{bd}	210960	HOSE SUPPORT BRACKET	1
02	P470472	HYDRAULIC FILL CAP ASY.....	1	31 ^b	090666	LN FL SERR 3/8" CZY	2
		<i>(includes cap, gaskets, and tube)</i>		32 ^b	L45666	CLAMP, HOSE 1.00 x 0.41	2
03	L99163	GASKET, FILLER NECK.....	2	33 ^b	650488	CS 3/8" x 3/4" C5ZY	2
		<i>(included with item #2)</i>		34	L63383	HOSE, -6 A6/DS8 52"	1
04	651201	RHMS SLT #10-32 x 3/4" FZY	6	35	L69920	HOSE, -4 A6/A6 40"	1
05	650449	CS 1/4"-20 x 2-1/2"	2	36	102843	HOSE, -4 A6/D6 35"	1
06	50380146	PLATE, TOP CUSHION.....	1	37	L69904	HOSE, 4 A6/DS6 20"	1
07	50380145	CLAMP, CUSHION TUBE	1	38	102946	HOSE, -6 A6/DS6 18"	1
08	650488	CS 3/8" x 3/4" C5ZY	10	39	068938	ADAP., -6ORM -6JICM 90°	2
09	654006	FW 3/8" AWZY	AR	40	054994	ADAP., -6ORM -6JICM STR.....	2
10	L65142	ACCESS COVER	1	41	072806	ADAP., -6 SWIVEL TEE	1
11	L65144	GASKET	1	42	50380450	SEAL KIT <i>(includes six o-rings)</i> ...	1
12 ^c	50380089	HYDRAULIC TANK.....	1			<i>(Earlier units used different o-rings; this kit covers current and early units, discard the o-rings that are not needed.)</i>	
13	L72419	ADAP., 1-1/2" NPT 90° ELBOW ...	1	43	L97489	HYDRAULIC FILTER ELEMENT... ..	1
14	L61620	ADAP., 1-1/2" PIPE NIPPLE	1	44	650863	FW 1/4" ANZY	2
15	L49327	STRAINER, HYD. OIL	1	45	50381156	HEATER/500W <i>(option)</i>	1
16	L63309	HOSE, -24 A24/A24 35"	1			<i>(attaches to bottom of hydraulic tank)</i>	
17	L442023	ADAP., -24JICM 24NPTM 90°.....	1				
18	650533	CS 3/8"-16 x 1-1/2" C5ZY	4				
19	654006	FW 3/8"	4				
20	L65211	3/8"-16 RETAINED NUT	4				
21	131529	PLUG, -8 O-RING SAE	1				
22 ^a	L446047	PLUG, -12 O-RING SAE	1				
23	134756	SIGHT GLASS.....	1				
24 ^e	101879	FILTER, IN-TANK RETURN UHI... ..	1				
25	650489	CS 3/8" x 7/8" C5Z	4				
26	079038	ST MJ20-MORB20	1				
27	L60123	90 MJ20-FJS20	1				
28 ^b	055005	ADAP., -12ORM -12JICM 90°	1				
29 ^b	104092	HOSE, -12 A12/DS12 23"	1				

-- ITEMS NOT SHOWN -- (Located Inside Hydraulic Tank)

- a Units not equipped with outriggers.
- b Units equipped with outriggers.
- c Includes items 13, 14, and 15.
- d Used to support the hose from the main control "IN" port.
- e Refer to "Hydraulic Filter Assembly" inset on facing page for a listing of components included.

HOSE LOCATOR

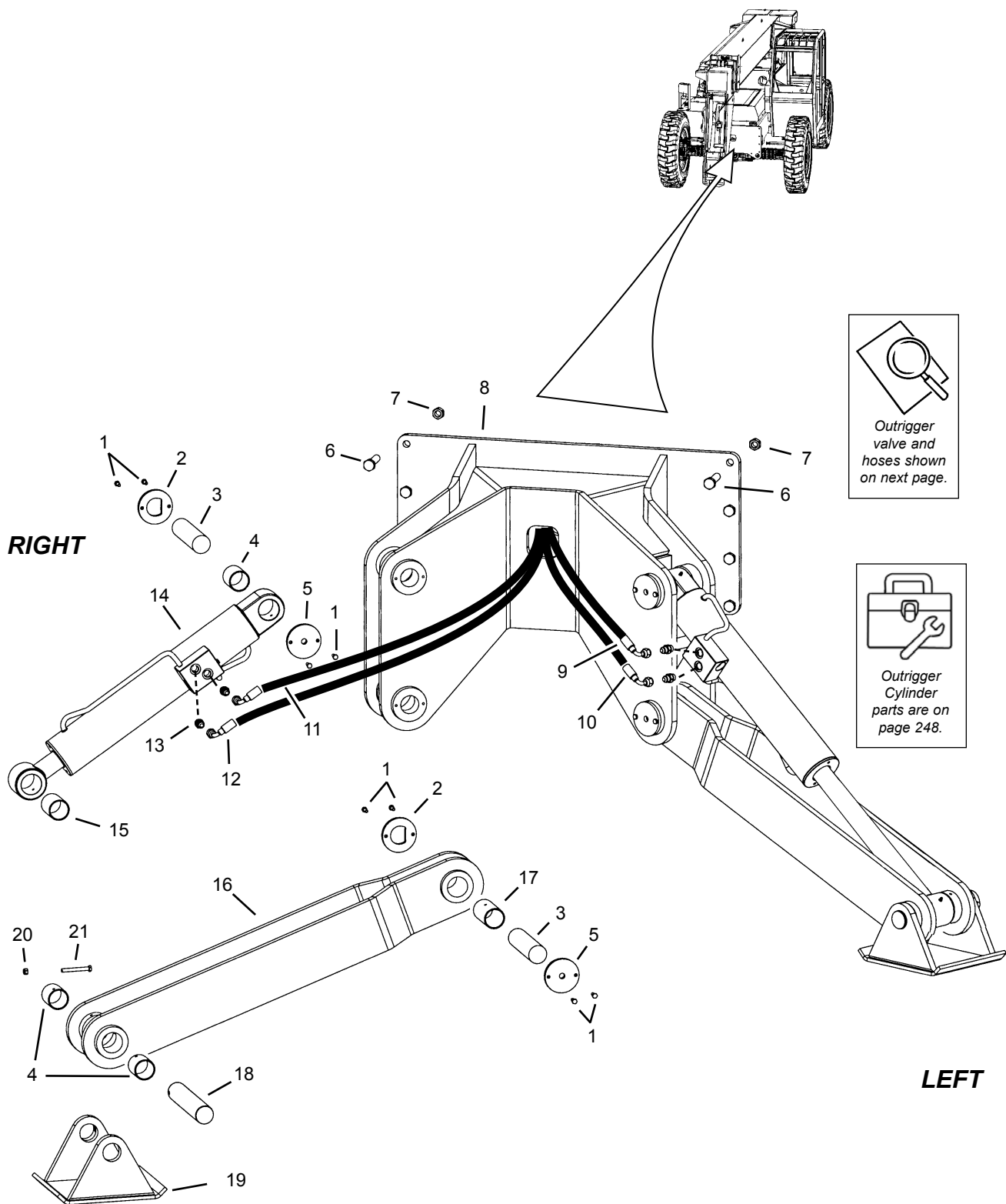
01	HYDRAULIC TUBE <i>(from hydraulic filter)</i>	HYD. COOLER "UPPER"
16	HYDRAULIC TANK <i>(bottom)</i>	HYDRAULIC PUMP "IN"
29	HYDRAULIC TANK RETURN <i>(front)</i>	OUTRIGGER VALVE "T"
34	HYDRAULIC TANK RETURN <i>(return manifold)</i>	STEER MOTOR "T"
35	HYDRAULIC TANK RETURN <i>(return manifold)</i>	BRAKE BOOSTER CYLINDER
36	HYDRAULIC TANK RETURN <i>(return manifold)</i>	JOYSTICK <i>(lift/extend controller)</i> "T"
37	HYDRAULIC TANK RETURN <i>(return manifold)</i>	PRIORITY VALVE "T"
38	HYDRAULIC TANK RETURN <i>(return manifold)</i>	FLOW DIVIDER "T"



Chassis

Outriggers - Option

RS Series

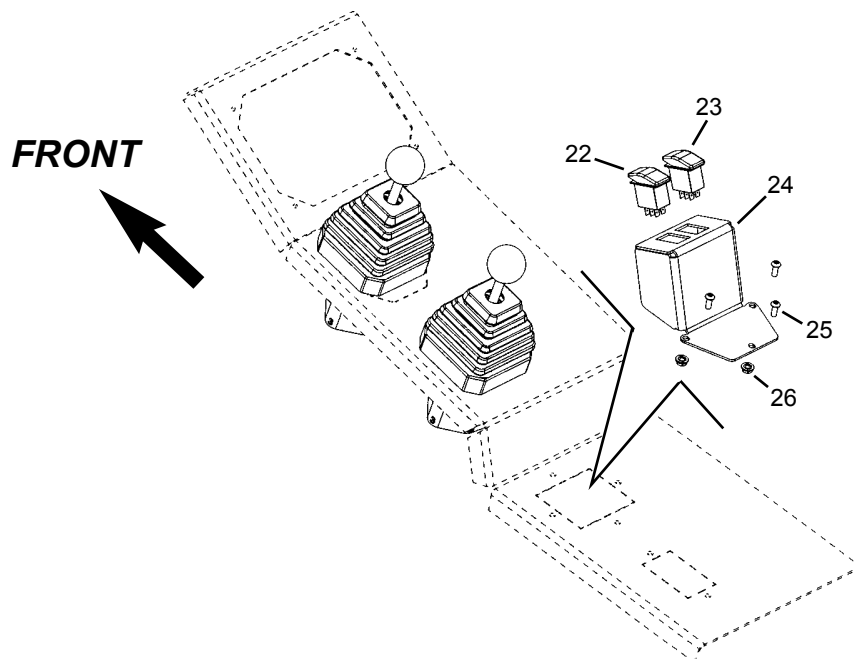




Telescopic Handler

Chassis Outriggers - Option

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	650486	5/16"-18x3/4" BOLT	16	17	L70614	BUSHING	2
02	L69725	CAP, PIN LOCK	4	18	L64963	PIN, PIVOT	2
03	L70621	PIN, PIVOT	4	19	L64914	WLDMNT, OUTRIGGER PAD	2
04	L69138	BUSHING	6	20	L520005	3/8"-16 CNTR LOCK NUT	2
05	L69724	CAP, PIVOT PIN	4	21	650818	3/8"-16X3" BOLT	2
06	L50385	3/4"-10X3" BOLT GR8	8	22	L71072	SWITCH, LEFT OUTRIGGER	1
07	L50084	3/4"-10 STOVER LOCK NUT "C"	8	23	L71073	SWITCH, RIGHT OUTRIGGER	1
08	102566	WLDMNT, OUTRIGGER MNT.	1	24	210761	MOUNT, OUTRIGGER SWITCH.	1
09	L68807	HOSE, -6 A8/DS8 54" (<i>extend</i>)	1	25	L50202	1/4"X5/8" BUTTON HEAD BOLT	3
10	L68807	HOSE, -6 A8/DS8 54" (<i>retract</i>)	1	26	L50051	1/4" FLANGE LOCK NUT	3
11	L68807	HOSE, -6 A8/DS8 54" (<i>extend</i>)	1	-- ITEMS NOT SHOWN --			
12	L68807	HOSE, -6 A8/DS8 54" (<i>retract</i>)	1				
13	054626	ADAP., -8ORM -8JICM STR	4	--	L10465	ZERK, GREASE 1/4"-28 STR	AR
14	L70616	CYLINDER, OUTRIGGER.	2	(Wire Harness)			
15	L70618	BUSHING	2				
16	L70615	WLDMNT, OUTRIGGER LEG	2	--	210723	WIRE HARNESS, OUTRIGGERS.	1

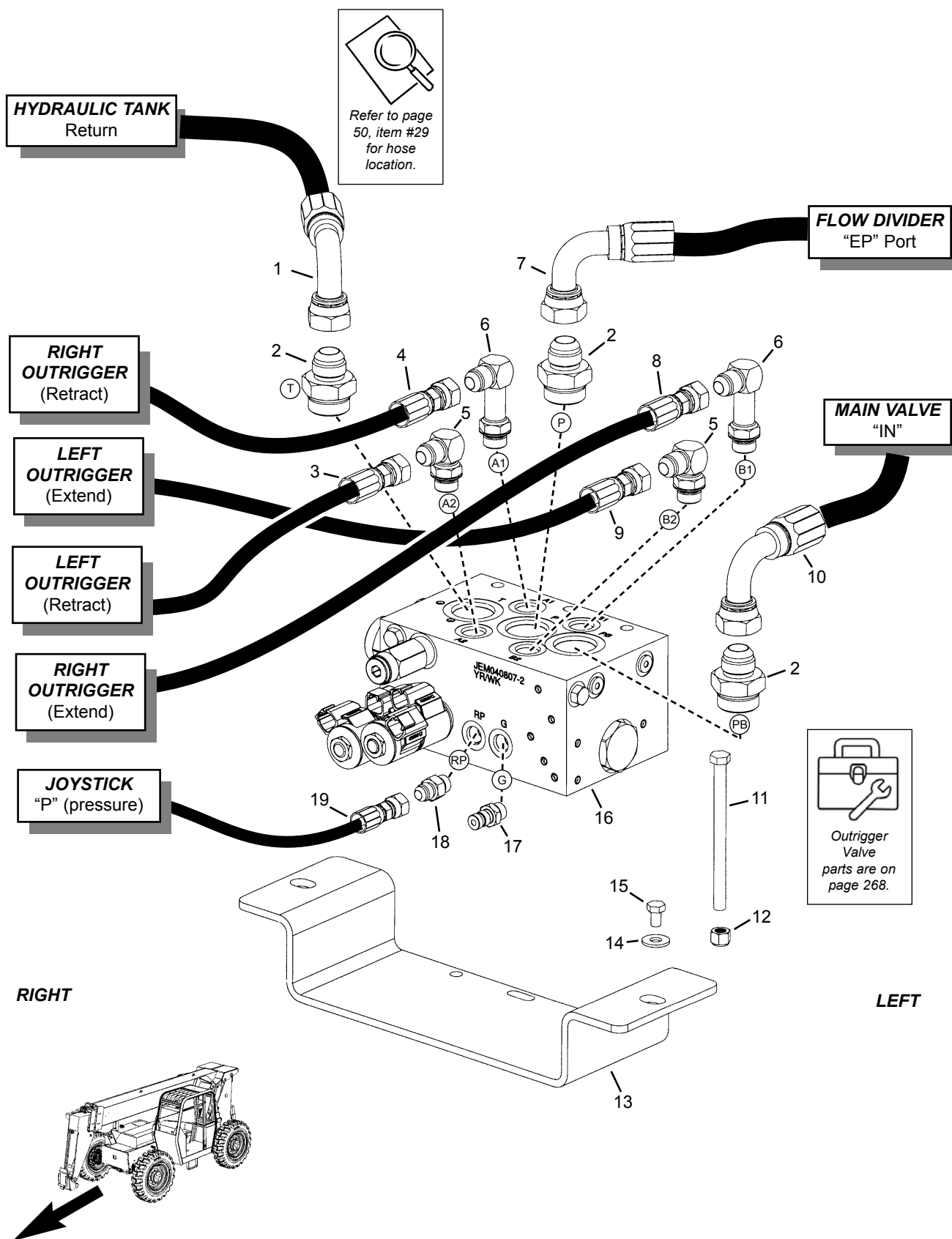




Chassis

Outrigger Valve - Option

RS Series





Telescopic Handler

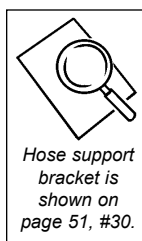
Chassis

Outrigger Valve - Option

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	104092	HOSE, -12 A12/DS12 23"	1	13	210727	MOUNT, OUTRIGGER VALVE	1
02	121774	ADAP., -16ORM -12JICM STR	3	14	654004	5/16" FLAT WASHER	2
03	L68807	HOSE, -6 A8/DS8 54"	1	15	650484	5/16"-18X1/2" BOLT	2
04	L68807	HOSE, -6 A8/DS8 54"	1	16	210716	VALVE, OUTRIGGER	1
05	054816	ADAP., -8ORM -8JICM 90°	2	17	P471997	TEST PORT.	1
06	126862	ADAP., -8ORM -8JICM LONG 90° . .	2	18	054994	ADAP., -6ORM -6JICM STR	1
07	102814	HOSE, -12 A12/DS12 74"	1	19	L68810	HOSE, -4 A6/A6 96"	1
08	L68807	HOSE, -6 A8/DS8 54"	1				
09	L68807	HOSE, -6 A8/DS8 54"	1				
10 ^a	210799	HOSE, -12 H12/DS12 40"	1	25	210723	WIRE HARNESS, OUTRIGGERS. . .	1
11	650730	3/8"-16X5" BOLT	3				
12	L520005	3/8"-16 LOCK NUT	3				

-- (ITEMS NOT SHOWN) --

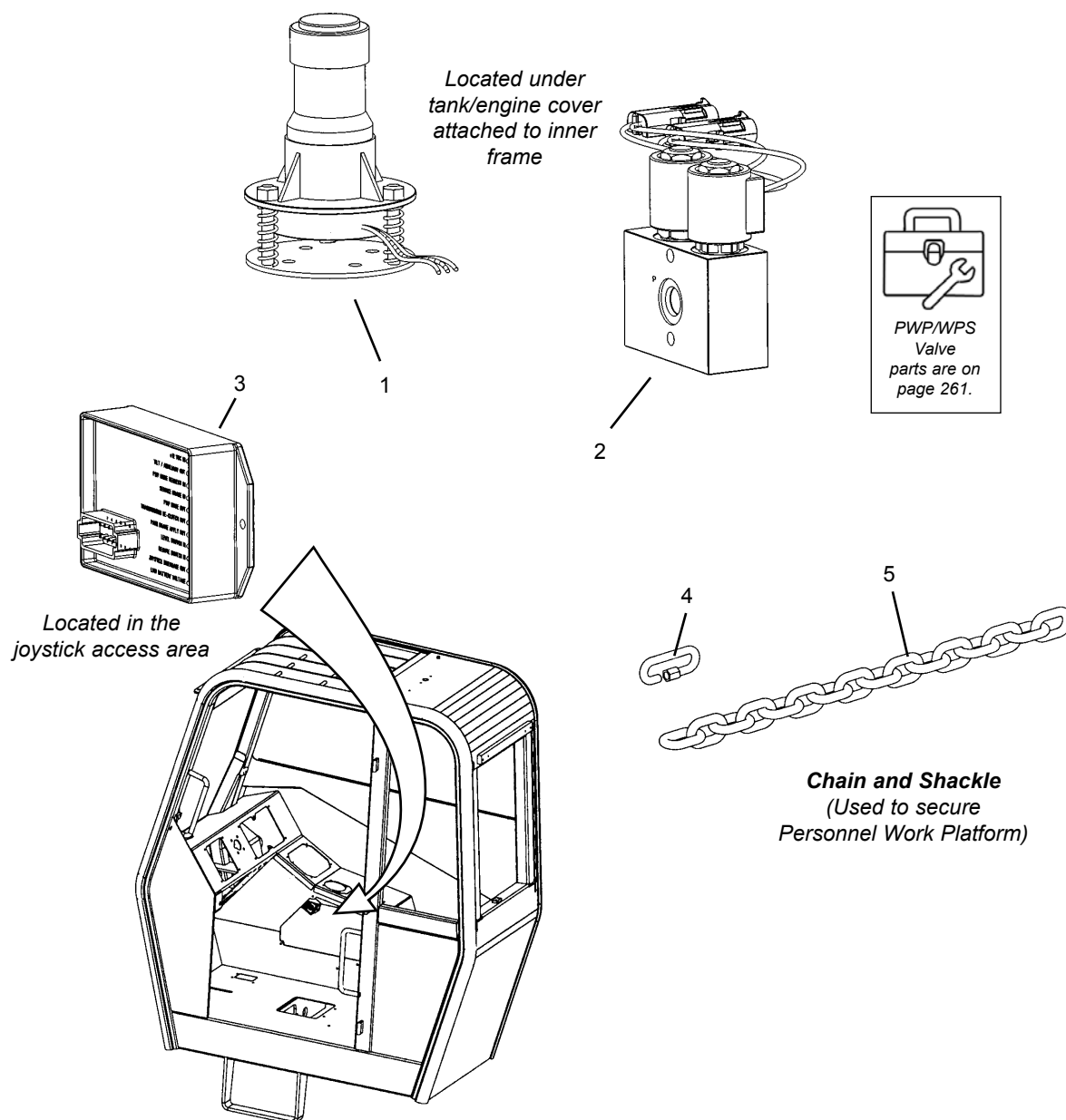
a Hose is supported near the hydraulic tank with bracket P/N 210960.





PWP Chassis Components

RS Series





Telescopic Handler

PWP

Chassis Components

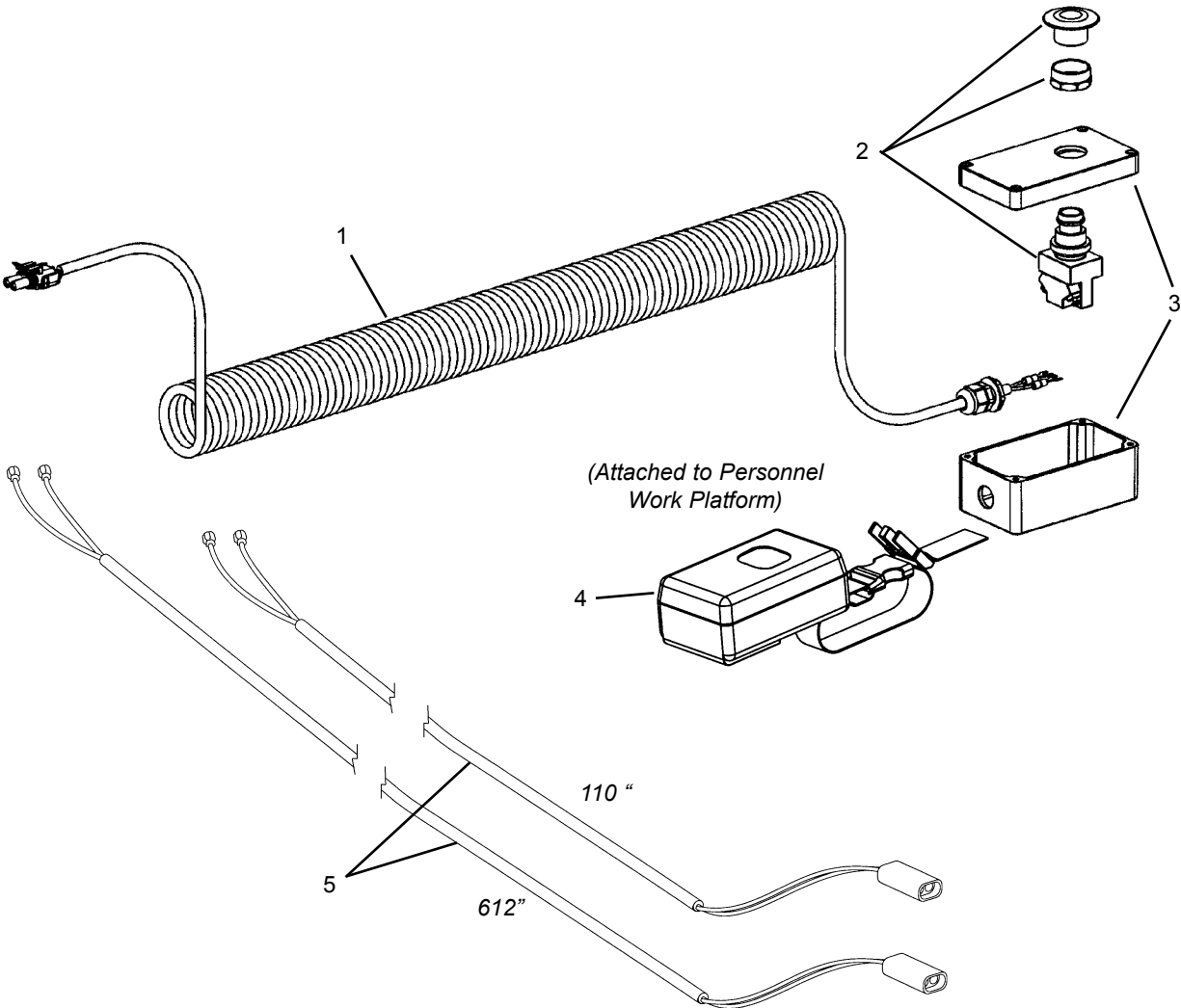
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50381128	KIT, LEVEL SENSOR	1	-- ITEMS NOT SHOWN --			
02	102321	PWP/WPS VALVE	1	--	L71691	PWP/WPS SWITCH	1
03	104078	PWP/WPS CONTROL MODULE . .	1			(located on dash)	
04 ^a	L71752	5/16" CHAIN SHACKLE	1	--	104064	PWP/WPS WIRE HARNESS	1
05 ^a	L71751	5/16" CHAIN GR40 16 LINKS . . .	1			(under dash and to level sensor)	

a Chain shackle and chain are used to secure the Personnel Work Platform.



PWP
Components (Three-Section Boom)

RS Series

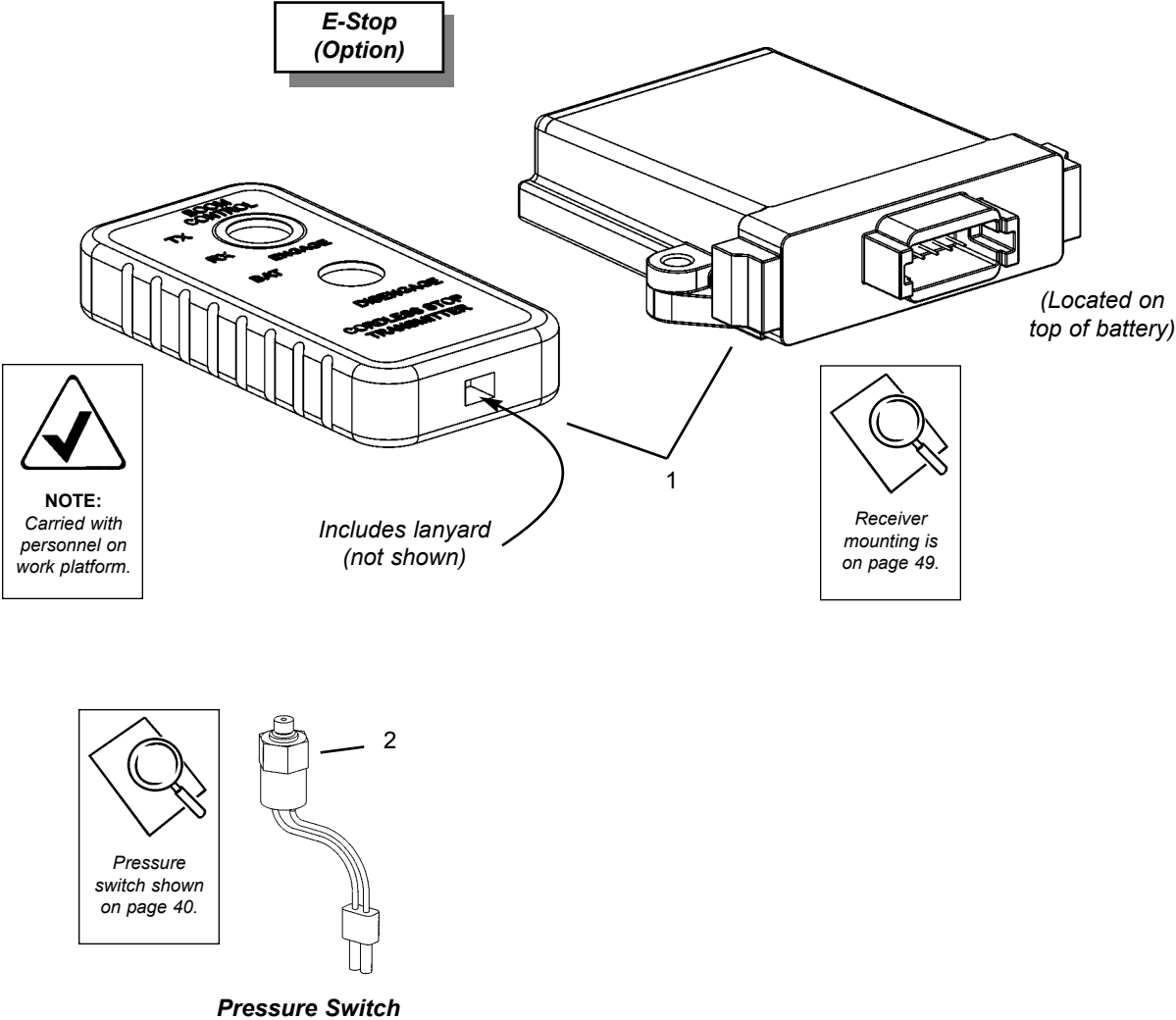


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
--	L71729	REMOTE SWITCH W/CABLE. 1 (Includes item 1-3)		03	L71725	REMOTE SWITCH ENCLOSURE.. 1	
01	102408	CABLE ASSEMBLY..... 1		04	L71750	REMOTE SWITCH POUCH 1	
02	L71726	REMOTE STOP SWITCH..... 1		05	L71732	REMOTE SWITCH HARNESS 1 (Consists of two cables)	



Telescopic Handler

PWP Components (Four-Section Boom)



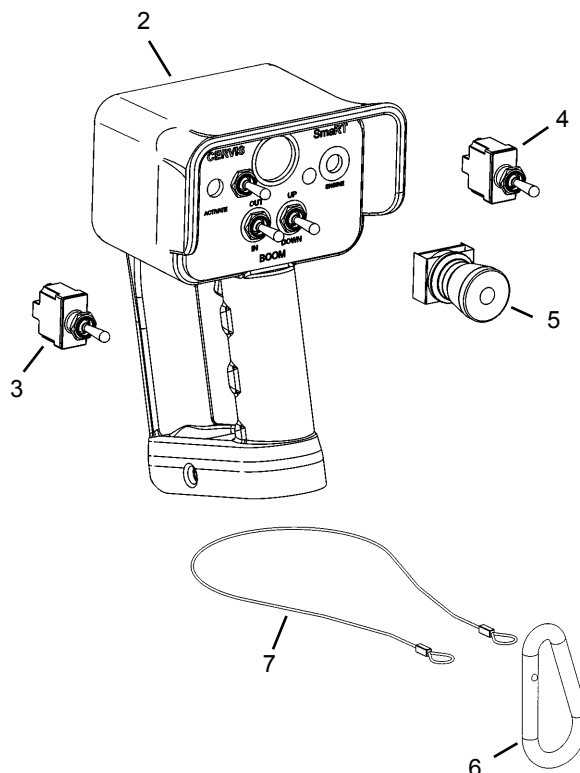
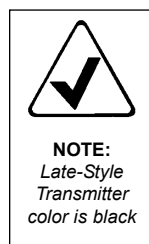
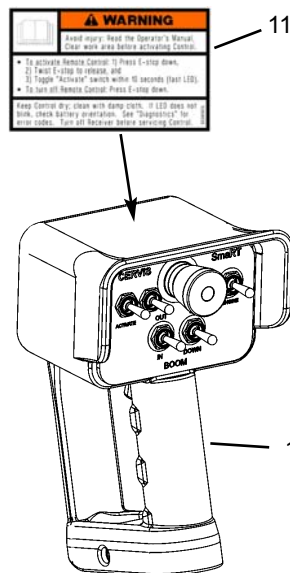
Ref. No.	Part No.	Description	Qty. Req.	-- ITEMS NOT SHOWN --	
01 ^a	50380625	SYSTEM/RADIO E-STOP 1 (Transmitter and Receiver)	1	--	102655 RADIO REMOTE HARNESS 1 (E-Stop receiver)
02	L70415	PRESSURE SWITCH 1	1	a	The transmitter and receiver are frequency-matched; therefore, it is required to purchase both as a set.
				b	Chain shackle and chain are used to secure the Personnel Work Platform to the carrier attachment.



Personnel Work Platform

RS Series

Radio Remote (Option) - Transmitter and Receiver - (Late Style)



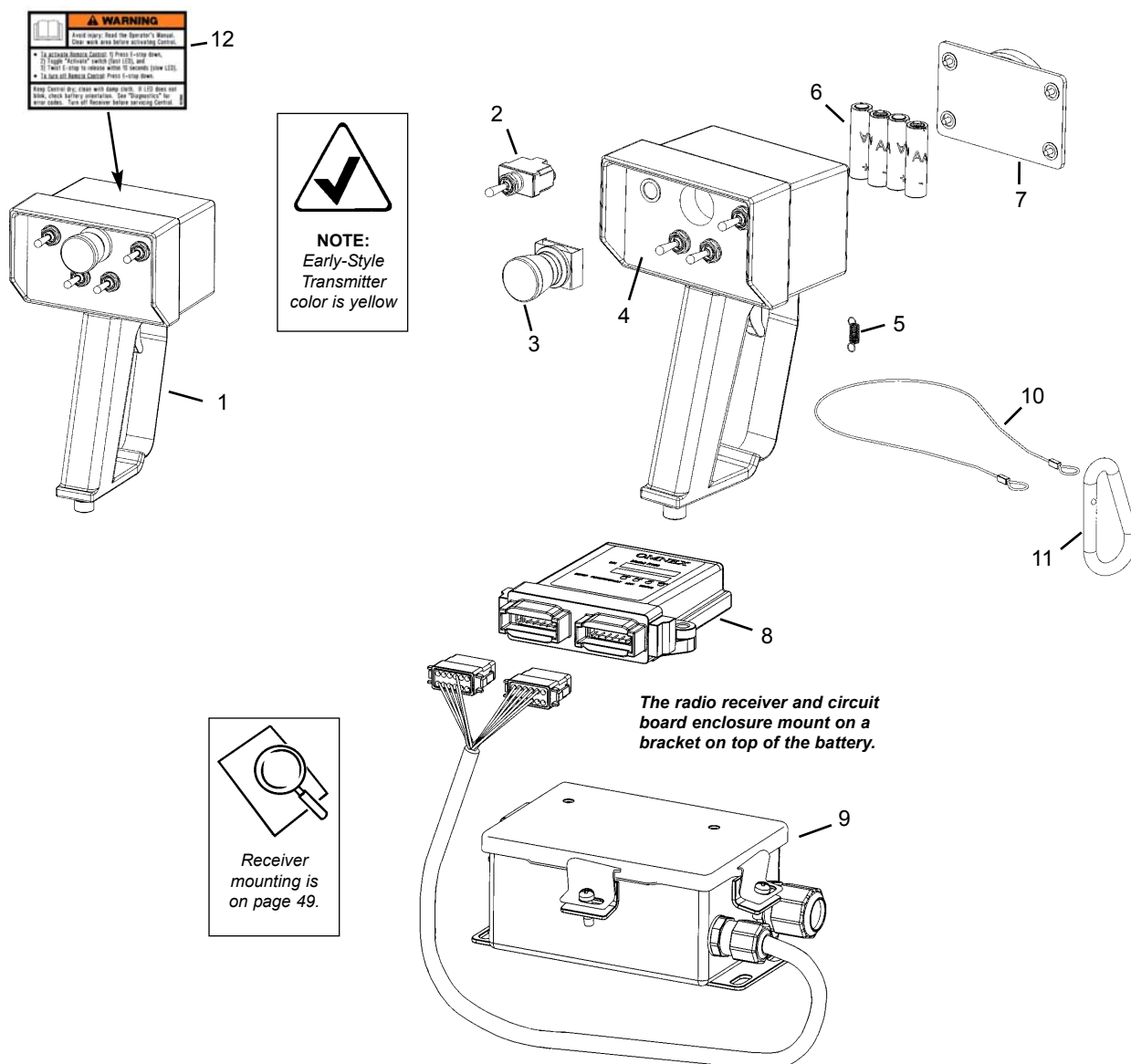
The radio receiver mounts on a bracket on top of the battery.

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
--	50380274	RADIO REMOTE, SYSTEM	1	10	L50051	1/4" WHIZNUT	2
		(Includes all items shown)		11	50380825	DECAL, REMOTE TRANSMITTER. 1	
01 ^a	50220629	REMOTE TRANSMITTER.	1			(not included with item 1)	
02	NSS	HOUSING	1			-- ITEMS NOT SHOWN --	
03	50220628	SWITCH, TOGGLE 2-POS.	1	--	103099	FUSE, MINI 15 AMP	1
04	50220627	SWITCH, TOGGLE 3-POS.	4	--	50380175	HARNESS, RADIO REMOTE	1
05	50220626	BUTTON, RADIO E-STOP	1	--	50380838	DECAL, REMOTE SYS. WARN.	1
06	103476	SNAP RING, LANYARD	1				
07	103475	LANYARD (wire cable)	1				
08	650426	1/4"X1-1/4" BOLT	2				
09	50220630	RECEIVER, RADIO REMOTE	1	a		Requires programming; refer to Radio Remote Operator's Manual and Parts Manual (50960060), included with the Radio Remote Control at the time of purchase, for more information.	

Telescopic Handler

Personnel Work Platform

Radio Remote (Option) - Transmitter and Receiver - (Early Style)



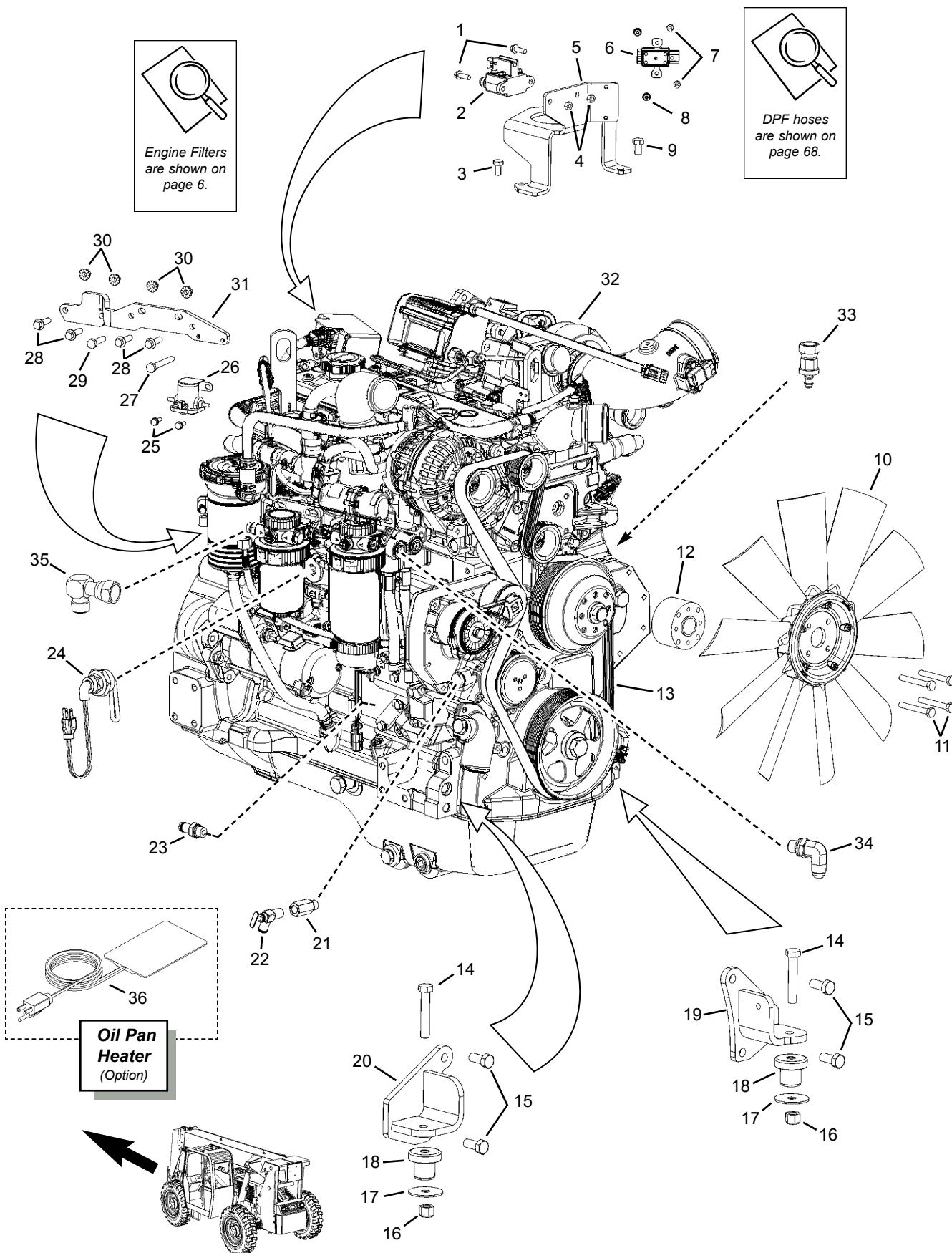
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
--	103744	RADIO REMOTE, COMPLETE.	1	12	102968	DECAL, REMOTE TRANSMITTER. 1	1
		<i>(Includes all items shown)</i>				<i>(not included with item 1)</i>	
01 ^a	103479	REMOTE TRANSMITTER.	1				
02	103482	SWITCH, TOGGLE 3 POS. MIL . . .	4			-- ITEMS NOT SHOWN --	
03	210867	SWITCH, E-STOP <i>(push-button)</i> . . .	1	--	103099	FUSE, MINI 15 AMP	1
04	104675	LABEL <i>(not shown-switch functions)</i>	1	--	103424	HARNESS, RADIO REMOTE	1
05	106965	SPRING, TRIGGER.	1			<i>(Connects to existing PWP wire</i>	
06	NSS	AA BATTERY.	4			<i>harness.)</i>	
07	50220061	COVER w/MAGNET & SCREWS . .	1				
08	103480	REMOTE RECEIVER	1	a		<i>Requires programming; refer to Radio Remote</i>	
09	210777	ENCLOSURE / CIRCUIT BOARD. .	1			<i>Operator's Manual an Parts Manual (913236),</i>	
		<i>(includes wire harness)</i>				<i>included with the Radio Remote Control at the time</i>	
10	103475	LANYARD <i>(wire cable)</i>	1			<i>of purchase, for more information.</i>	
11	103476	SNAP RING, LANYARD	1				



Engine

External Components

RS Series



Telescopic Handler

Engine

External Components

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	651695	CS FL M801.25x25 C8.8 ZY	2	24	L65570	ENGINE BLOCK HEATER	1
02 ^a	NSS	SENSOR, DELTA PRESSURE	1	25	072916	CS FL LOCK 1/4x3/4 C5ZY	2
03	656006	CS M10-1.5x20 C8.8 ZY	1	26	L41179	RELAY, ENGINE STARTER	1
04	656048	HN M8-1.25 C8 ZY	2	27	656131	CS M10-1.5x80 C8.8	1
05	50380239	BRACKET, DELTA PRESSURE	1	28	651698	CS FL M10-1.50x35 C8.8	4
06 ^a	NSS	SENSOR, BLOCK TEMP.	1	29	656010	CS M10-1.5x40 C8.8 ZY	1
07	650663	CS 1/4x5/8 C5ZY	2	30	071043	LN SER FL M10-1.50 C10 ZY	4
08	L50051	FLANGE LOCK NUT, 1/4-20	2	31	50380094	BRACKET, FUEL FILTER MOUNT	1
09	651404	CS M12-1.75x20 C8.8 ZY	1	32	NSS	ENGINE, 4045HFC92	1
10	104454	FAN, SUCTION 22"	1	33	50380518	ST FFS04 HBO4-PUSHLOK	1
11	656117	CS M10-1.5x75 C8.8	4			<i>(used w/inj. pump fuel return hose)</i>	
12	L70521	SPACER, FAN 2"	1	34	50300778	ADAP., 90 MJ06-MMA12	1
13		FAN BELT	1	35	210047	ADAP., -6MFS -6FFSS 90°	AR
	50220187	<i>(Standard)</i>		36	50381157	HEATER/250W <i>(option)</i>	1
	50220188	<i>(A/C equipped)</i>				<i>(attaches to bottom of engine oil pan)</i>	
14	650695	5/8"-11X3-1/2" BOLT	2			-- ITEMS NOT SHOWN --	
15	L50305	M16-2X35M BOLT GR8.8	4			<i>(Electrical)</i>	
16	067823	5/8"-11 NYLON INSERT NUT	2	--	50380149	WIRE HARNESS, ECU	1
17	L64197	WASHER, ISOLATOR MOUNT	2	--	50380315	WIRE HARNESS, ENGINE 14"	1
18	L64124	MOUNT, VIBRATION ISOLATOR	2	--	50380463	WIRE HARNESS, ENGINE 6"	1
19	50380261	ENGINE MOUNT <i>(right)</i>	1	--	50380309	HARNESS <i>(Throttle)</i>	1
20	50380260	ENGINE MOUNT <i>(left)</i>	1			<i>(Fuel Line)</i>	
21	210049	ADAP., M18 -6NPTF STR <i>(long)</i>	1	--	104341	HOSE END, -5 JICF PUSHON	AR
22	L99966	SHUTOFF, MANUAL/WATER	1	--	50380316	HOSE, -6 K6/K6 82" <i>(supply)</i>	1
23	L447005	ADAP., M18 10 BEAD STR	1	--	104114	HOSE, 1/4" X 100" <i>(return)</i>	1

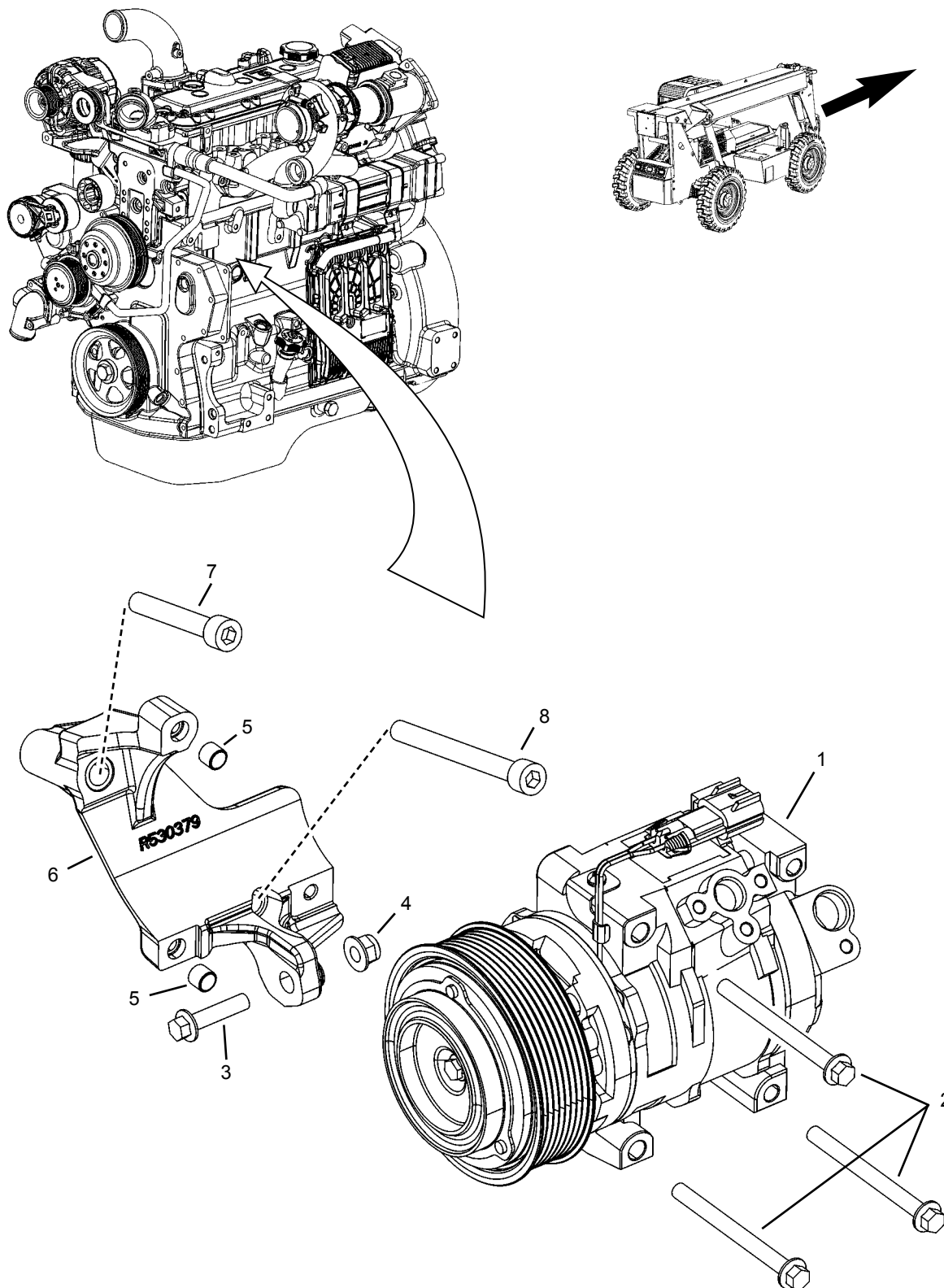
a *Contact John Deere parts department to order a replacement part.*



Engine

A/C Compressor - (Option)

RS Series





Engine

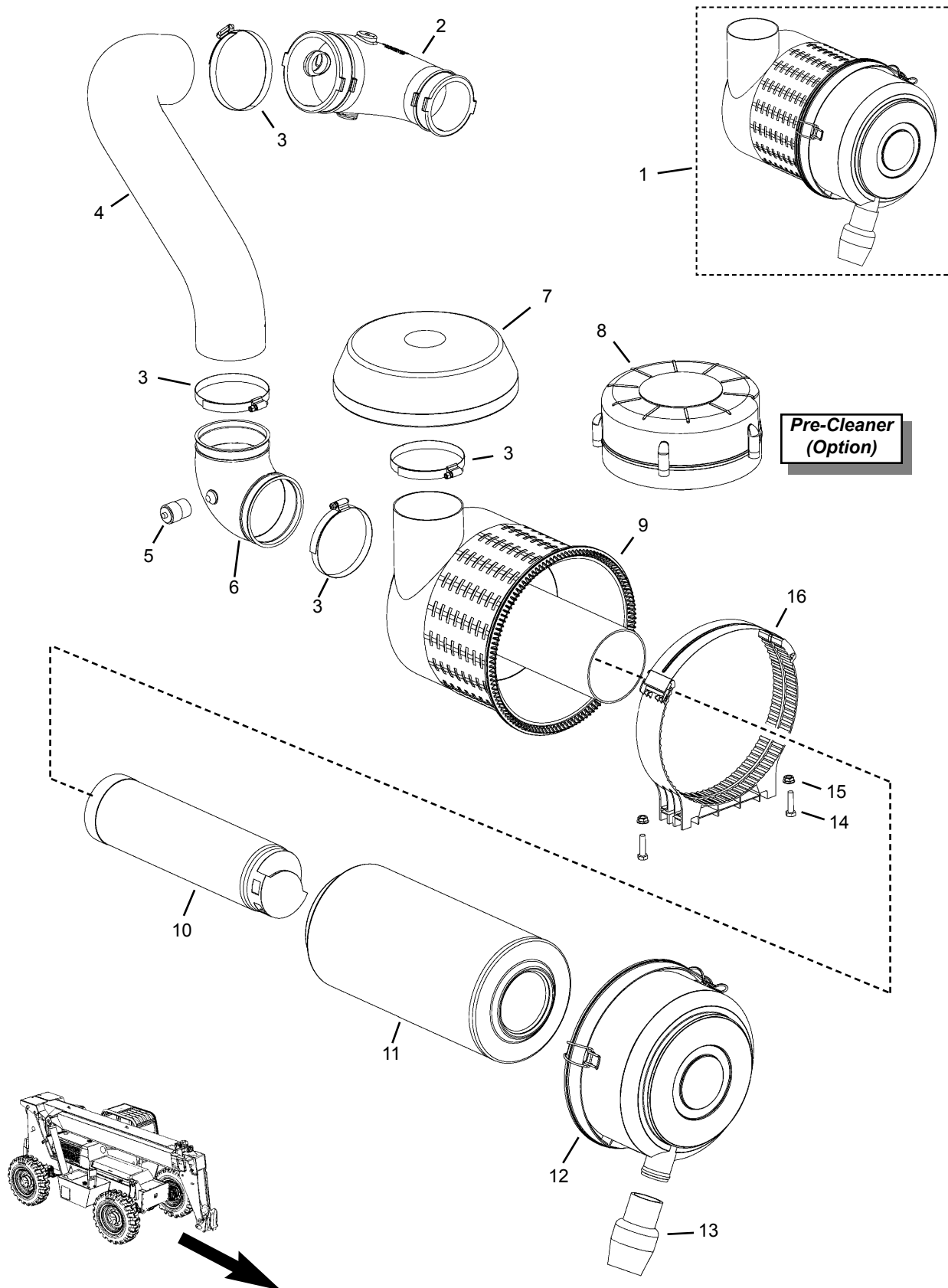
A/C Compressor - (Option)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380423	A/C COMPRESSOR	1	07	651789	SHCS M10-1.5x5 C12.9 OCG	1
02	651697	CS FL M8-1.25x90 C8.8 ZY	3	08	656150	SHCS M10-1.5x100 C12.9 OCG . . .	1
03	651720	CS FL M8-1.25x35 C8.8 ZY	1				
04	651706	LN INST FL M8-1.25 C8 ZY	1				
05	210213	BUSHING, COMPRESSOR PILOT . 2				-- ITEMS NOT SHOWN --	
06	50380424	A/C COMPRESSOR MOUNT	1	00	50220188	FAN BELT (A/C equipped).	1



Engine Air Intake

RS Series





Telescopic Handler

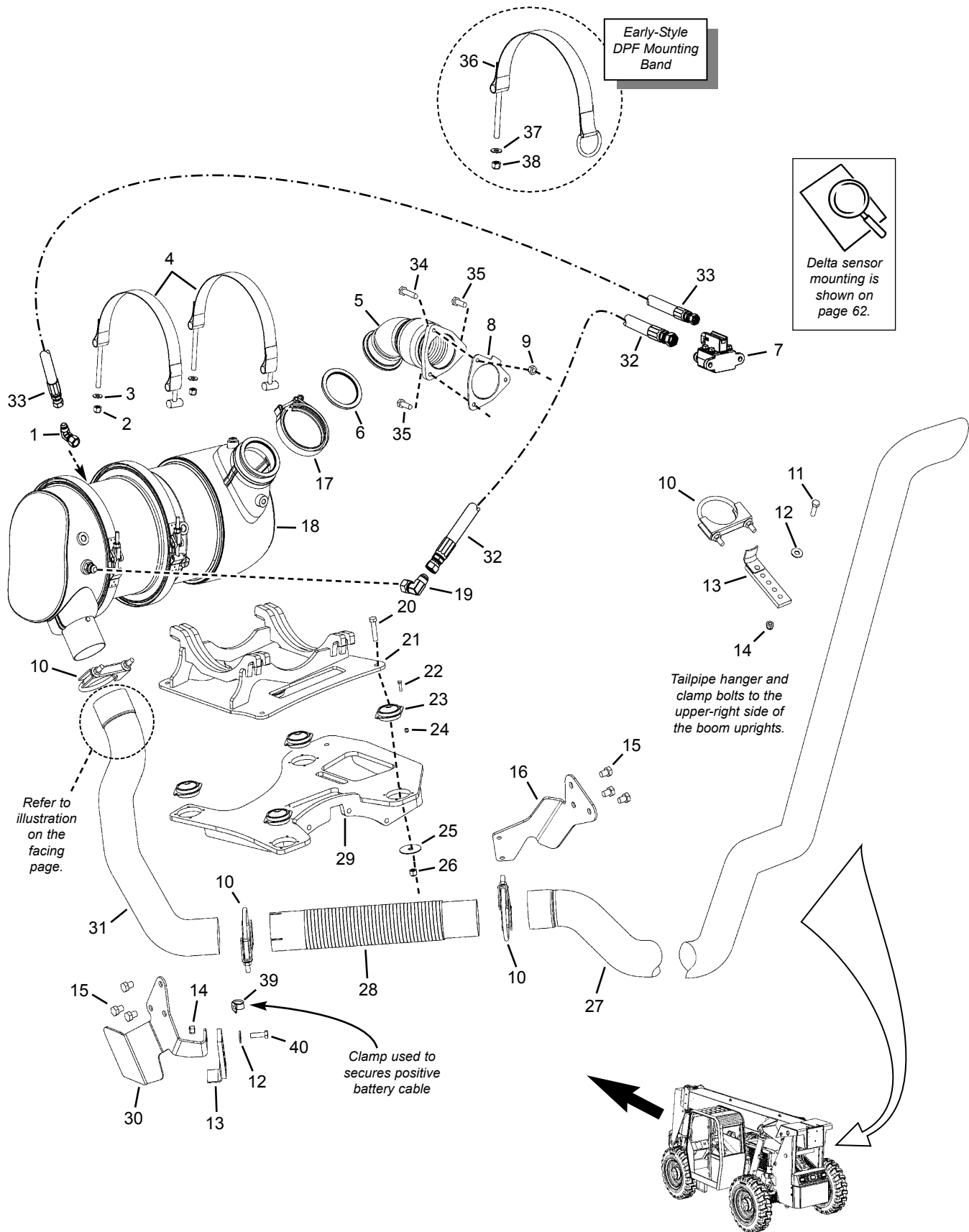
Engine Air Intake

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	105073	AIR CLEANER ASSEMBLY. 1 <i>(includes 9-13)</i>		10	105071	ELEMENT, SECONDARY 1	
02 ^a	NSS	ELBOW, AIR INTAKE 1		11	105070	ELEMENT, PRIMARY 1	
03	079769	ADJUST. CLAMP, #72 AR		12	NSS	END CAP 1	
04	50380001	AIR INTAKE TUBE 1		13	137659	EJECTOR/DUST 1	
05	183629	INDICATOR, RESTRICTION 30 in. .1		14	650545	5/6"X1-1/4" BOLT 2	
06	105065	90° RUBBER ELBOW, 4" DIA. 1		15	L50056	5/16" NUT 2	
07	105075	INLET HOOD/CAP <i>(standard)</i> 1		16	105059	CLAMP, AIR CLEANER MOUNT ..1	
08	192587	PRE-CLEANER <i>(option)</i> 1		<i>a Contact John Deere parts department to order a replacement part.</i>			
09	NSS	HOUSING, AIR CLEANER 1					



Engine Exhaust

RS Series





Telescopic Handler

Engine
Exhaust

Ref. No.	Part No.	Description	Qty. Req.
01	50300238	90 MJ06-FJS06 SS	1
02 ^e	656049	HN M10-1.5 C8 ZY DIN934	2
03	656133	FW M10 ZY DIN125	2
04	50380007	BAND, DPF MOUNTING	2
05	211257	COUPLER, FLEX EXHAUST	1
06	50220190	SEALING RING	1
07 ^a	NSS	SENSOR, DELTA PRESSURE	1
08	50220191	EXHAUST GASKET	1
09	656049	HN M10-1.5 C8 ZY DIN934	1
10	131951	CLAMP, MUFFLER 3"	4
11	650491	CS 3/8x1-1/4" C5ZY	1
12	654006	FW 3/8 AWZY	2
13	L64764	HANGER, TAILPIPE	2
14	L520005	CS INST 3/8"	2
15	651668	CS M12-1.75x16 C8.8 ZY	6
16	50380063	BRACKET, EXHAUST PIPE	1
17	50220192	CLAMP, EXHAUST	1
18 ^a	NSS	DPF	1
19	50300240	90 MJ08-FJS08 SS	1
20	650579	CS 3/8x1-3/4 C5ZY	4
21		BRACKET, DPF MOUNTING	1
	50380500	Note b	
	50380166	Note c	
22	651202	HHM USL #10-24x3/4 C2ZY	8
23	211241	ISOLATION MOUNT	4
24	084175	HLN INST #10-24 CZY	8
25	50380017	FW 3/8" SNUBBING	4
26	L520005	CS INST 3/8"	4
27	211178	TAILPIPE	1
28	105211	EXHAUST, FLEX PIPE	1

Ref. No.	Part No.	Description	Qty. Req.
29		BRACKET, DPF	1
	50380303	Note x	
	50380302	Note y	
30	50380059	BRACKET, EXHAUST PIPE	1
31		EXHAUST PIPE	1
	50380064	Note x (without expansion slots)	
	50380502	Note x (with expansion slots)	
	50380077	Note y (without expansion slots)	
	50380494	Note y (with expansion slots)	
32	50380300	HOSE, 0.50" A8/A8 15"	1
33	50380301	HOSE, 0.375" A6/A6 28"	1
34	656010	CS M10-1.5x40 C8.8 ZY	1
35	656008	CS M10-1.5x30 C8.8 ZY	2
36 ^d	NSS	BAND, DPF MOUNTING (early)	0
37	654049	FW 3/8 ANZY	2
38 ^f	L520005	HN INST 3/8"	2
39	L41859	CLAMP, HOSE 0.56 x 0.41	1
40	650533	CS 3/8x1-1/2" C5ZY	1

a Contact John Deere parts department to order this component part.

b Used with #2 size DPF; order this item if item #31 exhaust pipe has expansion slots (shown below).

c Used with #3 size DPF; order this item if item #31 exhaust pipe does not have expansion slots (refer to illustration below).

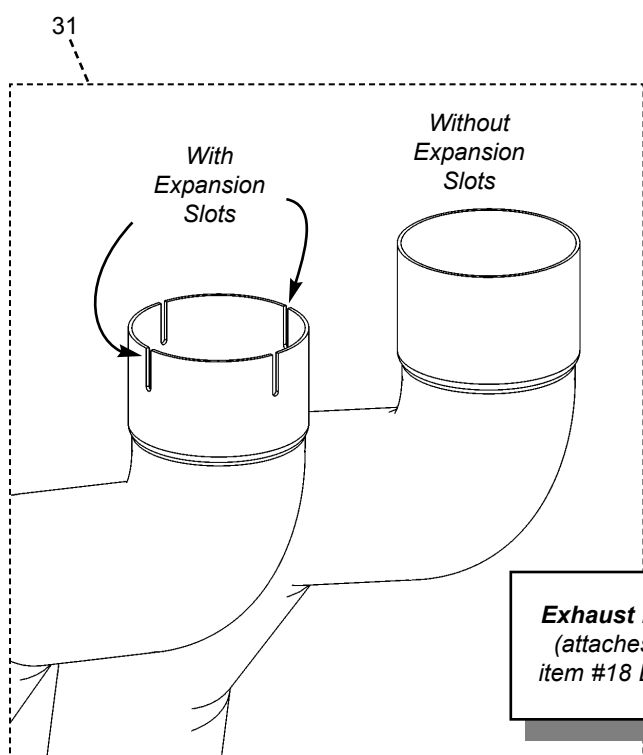
d Early-style mounting band is no longer available; order item #4, which is a direct replacement. Item #4 also includes a metric nut item #2.

e Included with item #4; be aware this is a metric nut.

f This is an SAE nut, do not use this with item #4.

x Only RS6-42 and RS8-42/44

y Only RS10-44/55 and RS12-42



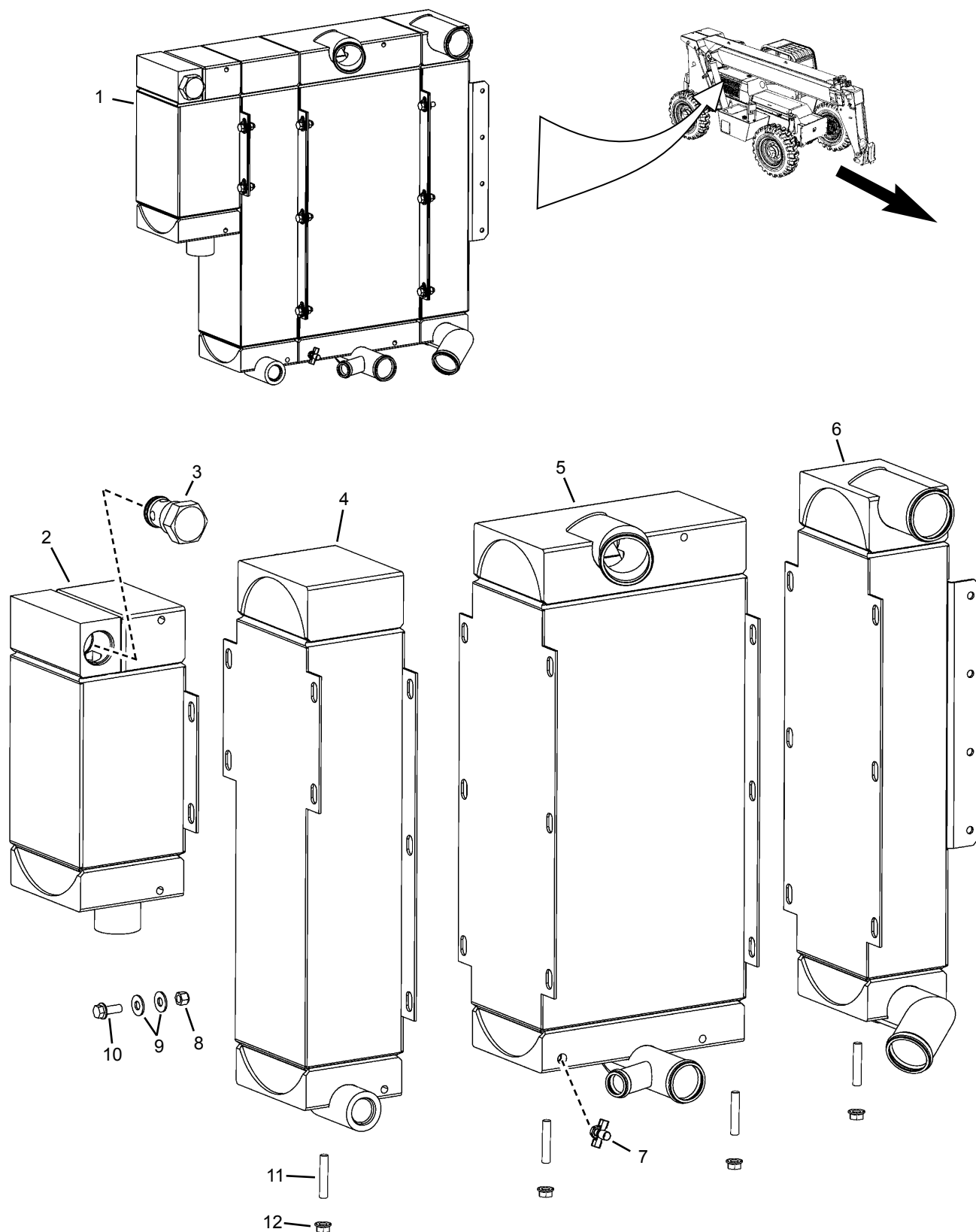
NOTE: Early machines were equipped with a size #3 DPF; later machines are equipped with a size #2 DPF. Inspect the exhaust pipe where it attaches to the DPF. If the exhaust pipe has expansion slots similar to those shown in the illustration to the left, then the machine is equipped with a size #2 DPF—otherwise, the machine is equipped with a size #3 DPF.



Engine

Radiator, Coolers, and Surge Tank

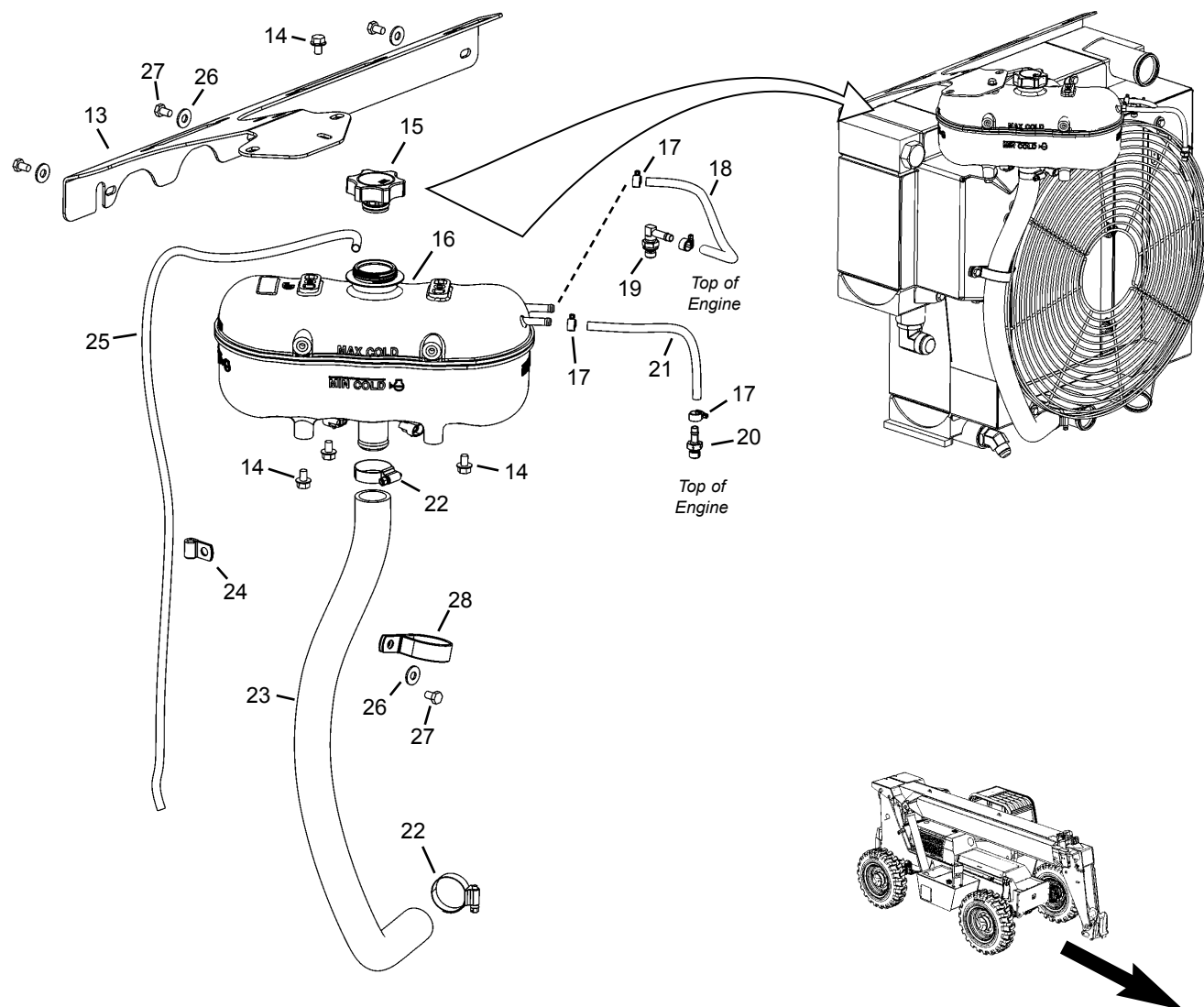
RS Series





Telescopic Handler

Engine Radiator, Coolers, and Surge Tank



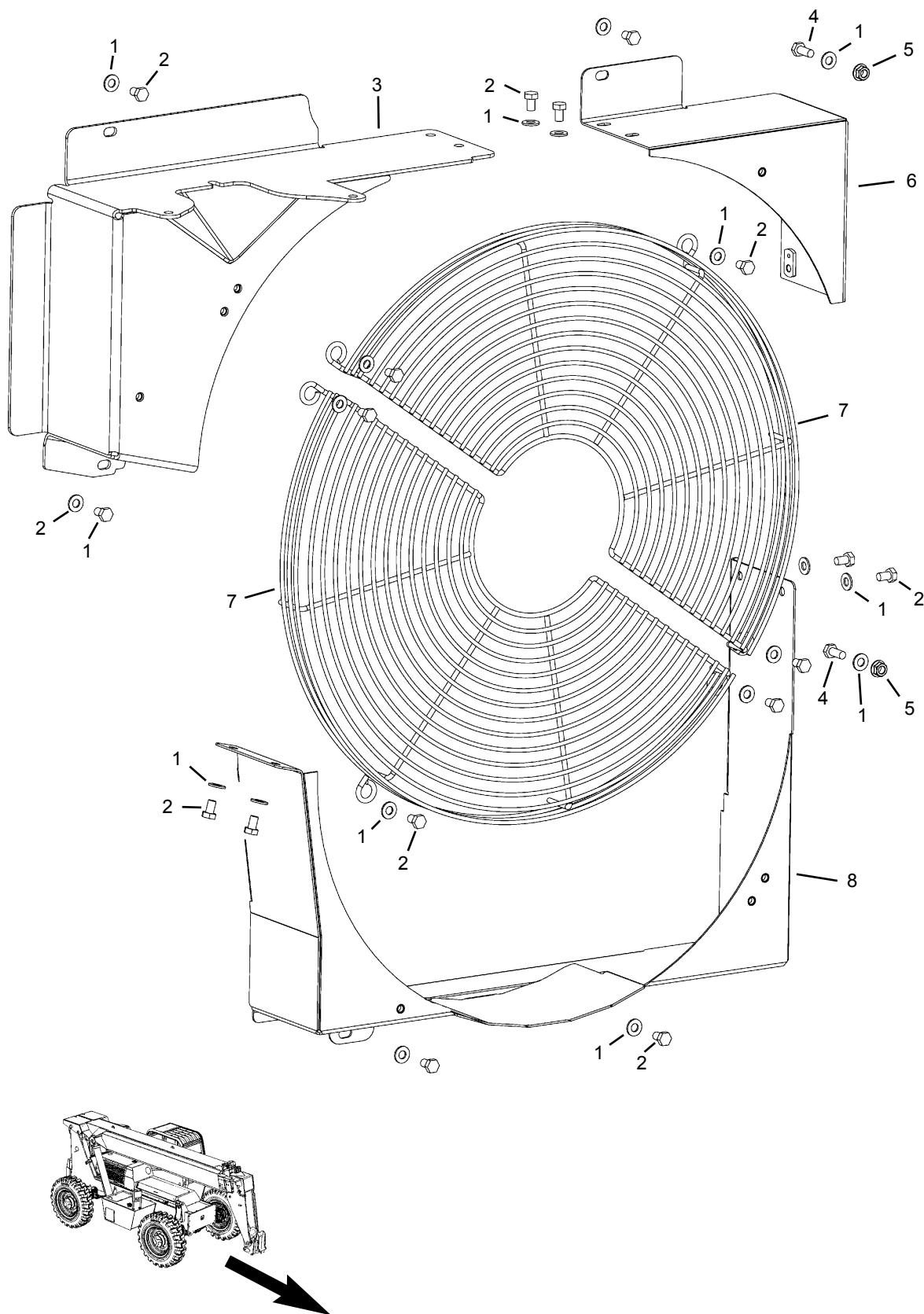
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380008	COOLER ASSEMBLY 1 (includes all items shown)		16	50380028	SURGE TANK (includes item #15) .1	
02	50220163	HYDRAULIC COOLER SECTION .1		17	062023	CLAMP, HOSE #5 4	
03	50220164	CHECK VALVE 60 psi 1		18	50380312	HOSE, OVERFLOW 8" 1	
04	50220162	TRANS. COOLER SECTION 1		19	50380311	90 HB05-ISO6149-12 ORIFICE . .1	
05	50220161	RADIATOR SECTION 1		20a	NSS	FITTING 1	
06	50220160	CHARGE-AIR COOLER SECT. . . .1		21	50380313	HOSE, OVERFLOW 14" 1	
07	L40805	DRAIN VALVE 1		22	061946	CLAMP, HOSE #24 2	
08	067847	HLN INST 3/8 CZY 16		23	50380293	HOSE, COOLANT FILL 1	
09	654006	FW 3/8 AWZY 32		24	420-19671	CLAMP, VINYL 0.375" x 0.41" . . .1	
10	076589	CS FL LOCK 3/8 x 1 C5ZY 16		25	102262	HOSE, RADIATOR OVERFLOW . .1	
11	210148	STUD 3/8"-16x2" 4		26	654004	FW 5/16 AWZY 4	
12	090666	HN FL SLOC 3/8" CZY 4		27	650484	CS 5/16 x 1/2 C5ZY 4	
13	50380026	BRACKET, MOUNTING 1		28	089001	CLAMP, VINYL 1.88" x 0.41" 1	
14	176652	CS FLH M8-1.25X12 8.8 ZY 4					
15	50220165	RADIATOR CAP, 18 PSI (JD) 1 (included with item #16)					

a Contact John Deere parts department for part.



Engine Radiator Shrouds and Guards

RS Series





Telescopic Handler

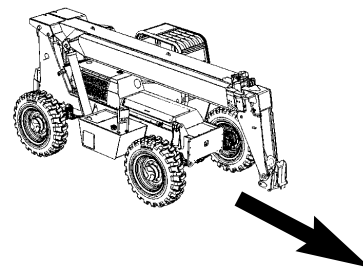
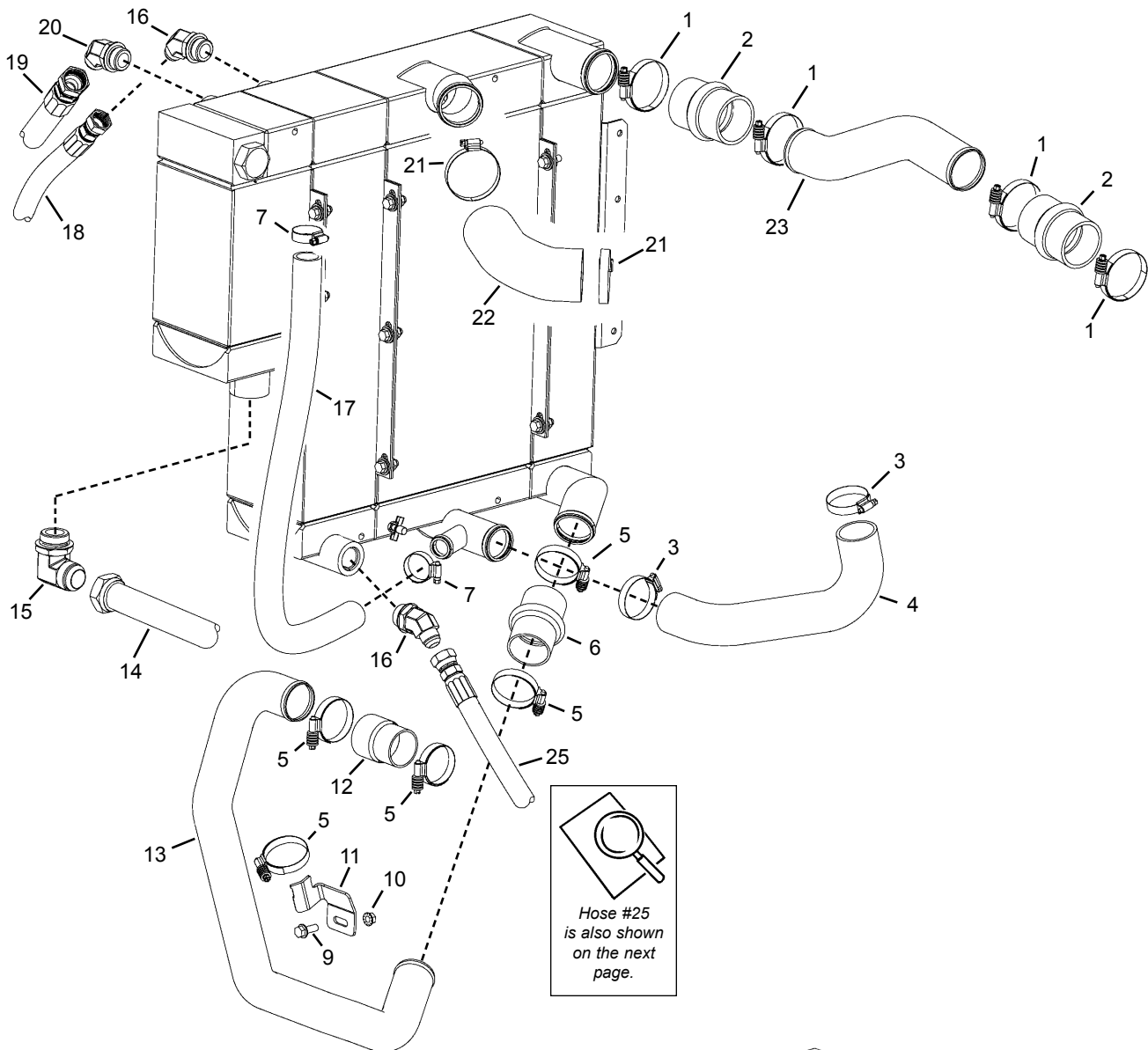
Engine
Radiator Shrouds and Guards

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	654004	FW 5/16 AWZY	AR	05	L50056	FLANGE LOCK NUT 5/16"-18 ...	2
02	650484	CS 5/16"x1/2" C5ZY	AR	06	50380279	SHROUD, LOWER LH	1
03	50380277	SHROUD, UPPER RH	1	07	104455	FAN GUARD	2
04	650486	CS 5/16"x3/4" c5zy	2	08	50380278	SHROUD, LOWER	1



Engine Radiator/Cooler Hoses

RS Series





Telescopic Handler

Engine Radiator/Cooler Hoses

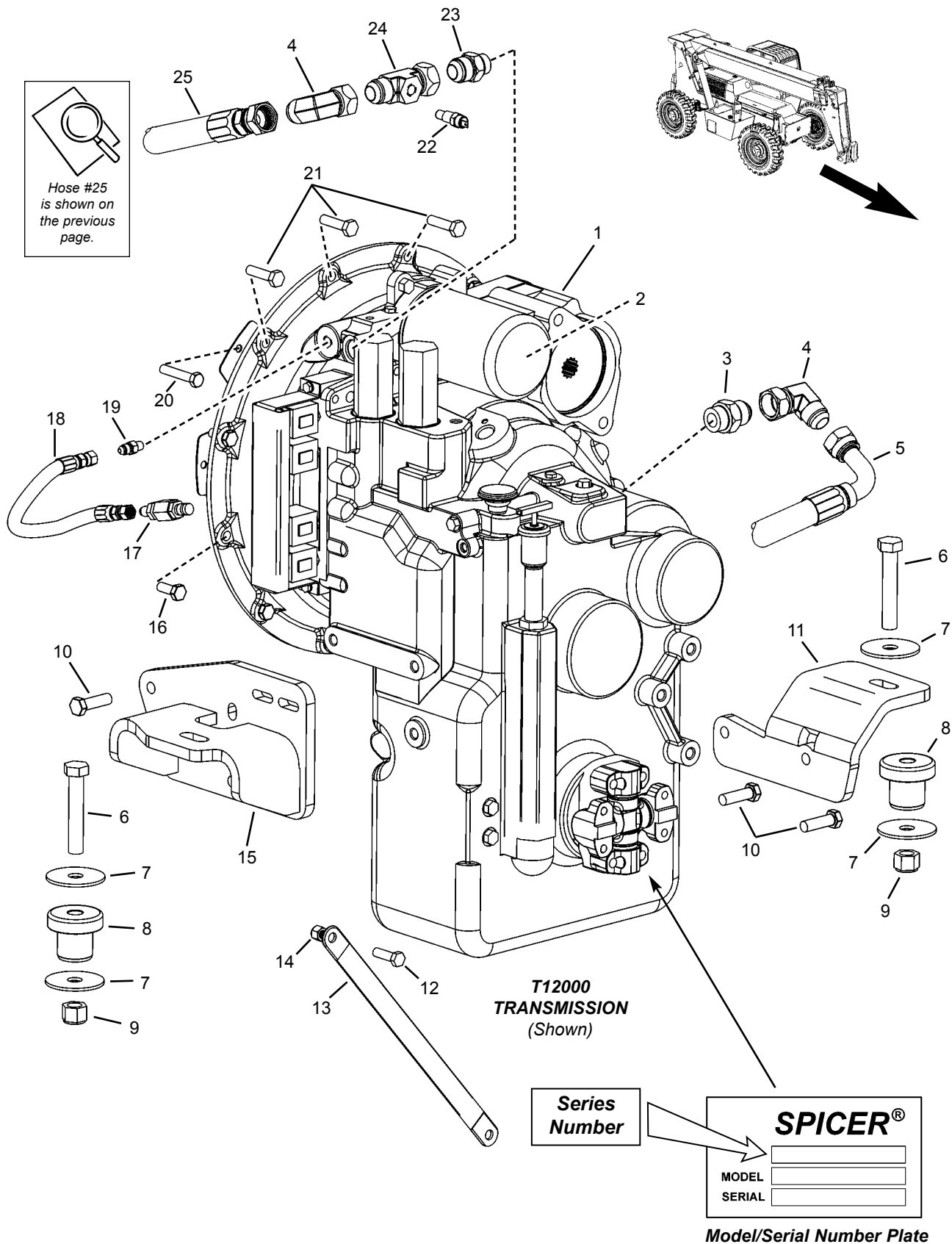
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50300170	CLAMP, TENSION HOSE #40	4	15	127349	90 MJ20-MAORB20	1
02	211151	HOSE, SILICONE 2.50"	1	16	121773	45 MJ120MAORB16	2
03	L76020	CLAMP, HOSE #32	2	17	50380293	HOSE, COOLANT FILL	1
04	105763	HOSE, LOWER RADIATOR	1	18 ^a	L63406	HOSE, -12 A12/DS12 114"	1
05	105175	CLAMP, TENSION HOSE #36	5			<i>(to transmission—left side)</i>	
06	104452	HOSE, SILICONE 2.25"	1	19	102849	HOSE, -16 A16/A16 42"	1
07	061946	CLAMP, HOSE #24	2			<i>(to main hydraulic control valve)</i>	
09	076589	CS FL LOCK 3/8"x1" C5ZY	1	20	079029	45 MJ16-MAORB16	1
10	090666	HN FL SLOC 3/8" CZY	1	21	087850	CLAMP, HOSE #40	2
11	50380071	BRACKET, CAC TUBE	1	22	211307	HOSE, UPPER RADIATOR	1
12	104885	HOSE, SILICONE 2"—2-1/4"	1	23	211154	TUBE, UPPER CAC	1
13	211176	TUBE, LOWER CAC	1	25 ^a	271276	HOSE, MP -12 x50"	1
14	50380024	TUBE, Hydraulic FILTER	1			<i>(to transmission—right side: refer to the next page for hose location on the transmission)</i>	
		<i>(to hydraulic filter in hydraulic tank)</i>					



Transmission

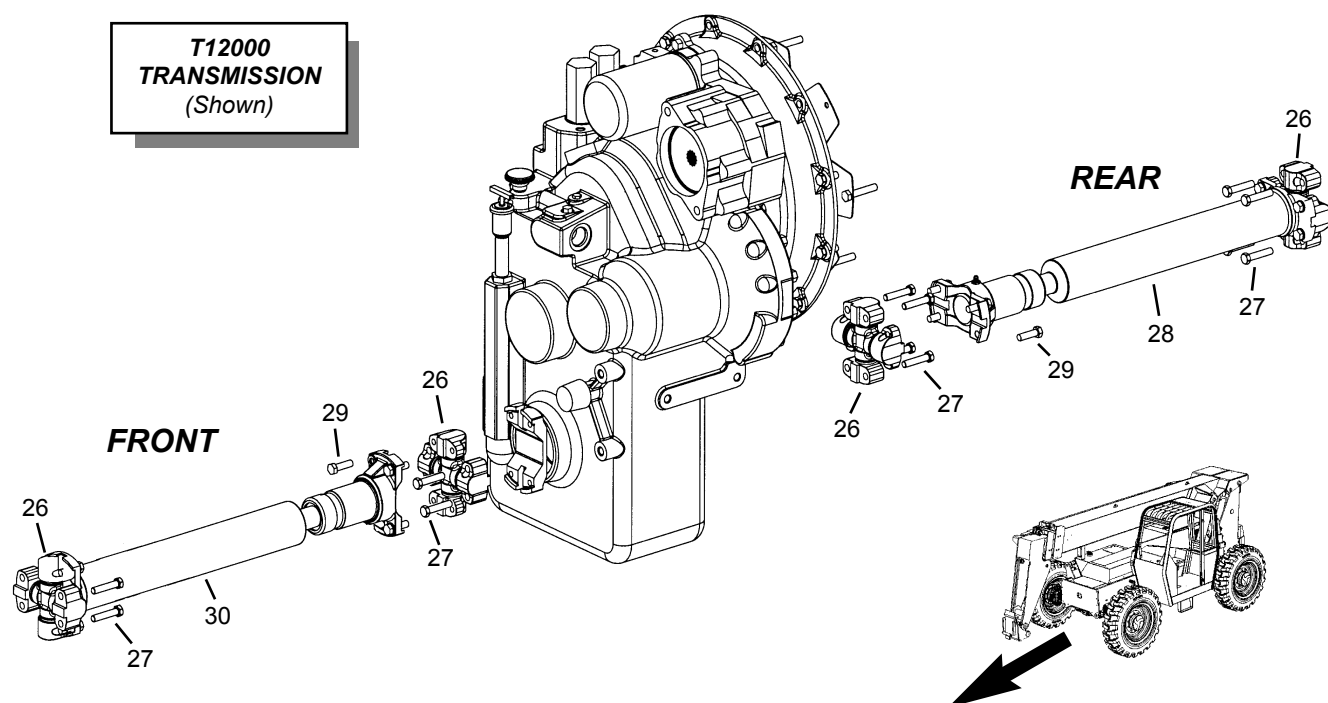
External Components and Driveshafts

RS Series





Telescopic Handler

Transmission
External Components and Driveshafts

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		TRANSMISSION	1	22	L66965	SENDER, TEMP 250°	1
	102654	Note x (T12000)		23	054819	ST MJ12-MORB10	1
	210397	Note y (T13000)		24	50380387	TEE MJ12-FJS12-FP04	1
02	L99184	FILTER, TRANSMISSION OIL	1	25 ^e	271276	HOSE, MP -12 x50"	1
03	072587	ADAP., -12ORM -12JICM STR	1			(to hyd. cooler—lower port)	
04	075235	ADAP., -12JICM -12JICFS 90°	2	26	L99182	UNIVERSAL JOINT (incls. bolts) ..	4
05 ^e	L63406	HOSE, -12 A12/DS12 114"	1	27 ^a	L50468	3/8"-24X1-3/4" GR8 BOLT	16
		(to hyd. cooler—upper port)		28		DRIVESHAFT, REAR	1
06	650695	CS 5/8"-11 x 3-1/2"	2		102212	(Note x) (includes u-joints)	
07	L64197	WASHER, ISOLATOR MOUNT	4		L68549	(Note y) (includes u-joints)	
08	L64124	MOUNT, VIBRATION ISOLATOR ..	2	29 ^b	650965	3/8"-24X1-1/4" GR 8 BOLT	8
09	L520007	5/8"-11 NYLON INSERT NUT	2		654026	3/8" LOCK WASHER	8
10	L50704	M12X1.75X40mm BOLT	5	30	102211	DRIVESHAFT, FRONT	1
11	50380295	TRANS. MOUNT (LH)	1			(Includes u-joints; all models use the same front driveshaft.)	
12	650491	CS 3/8" x1-1/4" C5ZY	1				
13	L630004	GROUND STRAP	1				
14	L520005	NIN 3/8"-16	1				
15	50380294	TRANS. MOUNT (RH)	1				
16		BOLT	9				
	L50952	Note x—CS M10-1.5x25 C8.8					
	656012	Note y—CS M10-1.5x50 C8.8					
17	L62834	TEST PORT FITTING	1				
	L62840	DUST CAP (not shown)	1				
18	104111	HOSE, -4 A4/A4 18"	1				
19	230-20033	ST MJ04-MP02	1				
20 ^c	L50833	3/8"-24X2" GRADE 8 BOLT	8				
21		BOLT	3				
	651400	Note x—CS M10-1.5x40 C8.8					
	656013	Note y—CS M10-1.5x60 C8.8					
				x		Only RS6-42 and RS8-42/44	
				y		Only RS10-44/55 and RS12-42	

a Used to fasten universal joint to transmission and to axle yokes.

b Used to fasten universal joint to driveshaft.

c Used to fasten flex plate to flywheel.

d Used to fasten wire harness bracket to transmission.

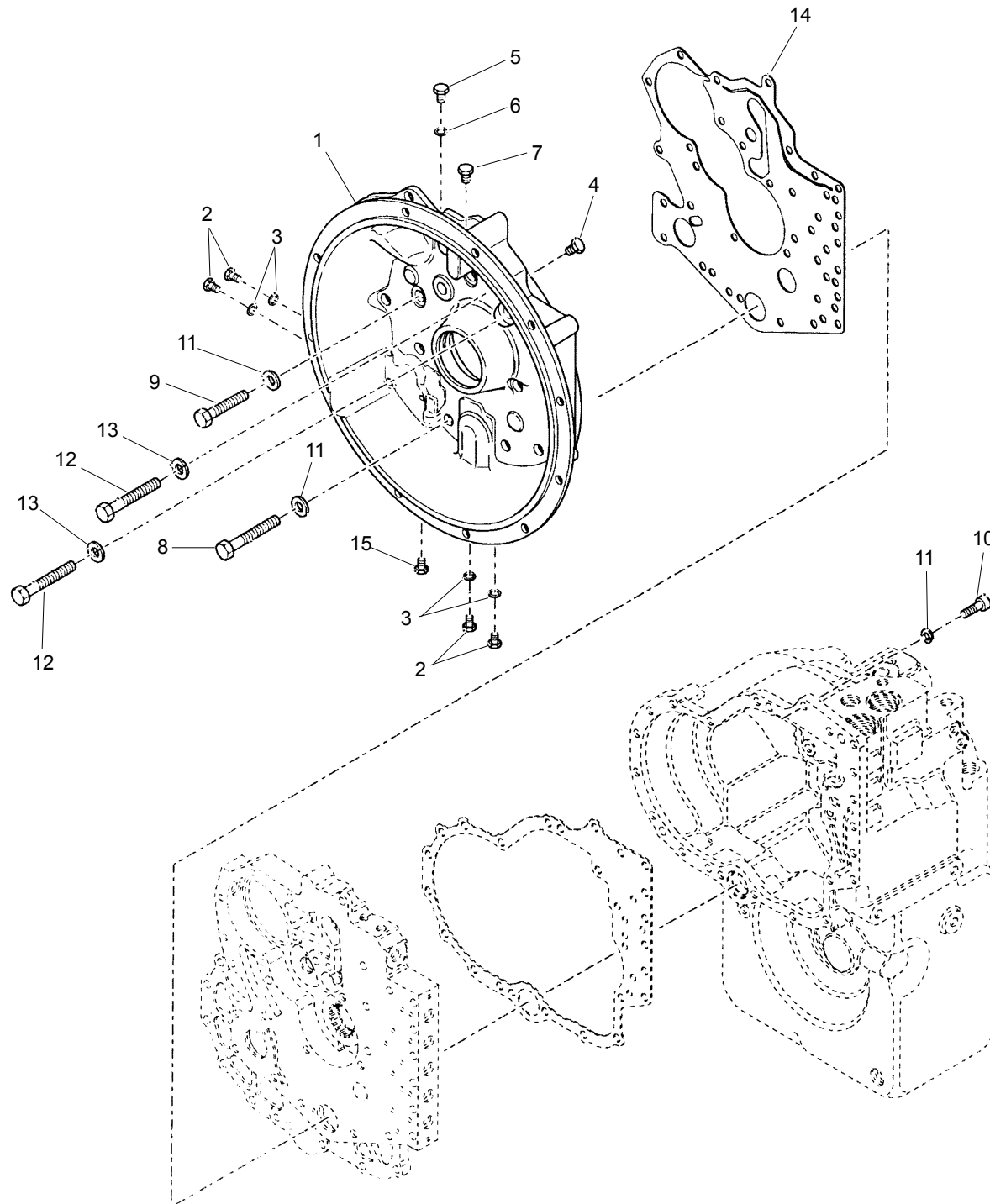
e Refer to previous page for hose location



Transmission

RS Series

Torque Converter Housing - (RS6 and RS8 Models)



RS6 and RS8 Models Only



Telescopic Handler

Transmission

Torque Converter Housing - (RS6 and RS8 Models)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L99286	HOUSING/CONVERTER	1	09	L99260	SCREW	3
02	L99283	PLUG	4	10	L99261	SCREW	1
03	L99284	O-RING / PLUG	4	11	L99029	WASHER/LOCK	10
04	L99246	PLUG	1	12	L99260	SCREW	13
05	L99283	PLUG	1	13	L99029	WASHER/LOCK	13
06	L99284	O-RING / PLUG	1	14	L98938	GASKET/HSG. TO PLATE	1
07	L99262	PLUG	1	15	L99249	PLUG/TEMP PICKUP	1
08	L99285	SCREW	6				

RS6 and RS8 Models Only

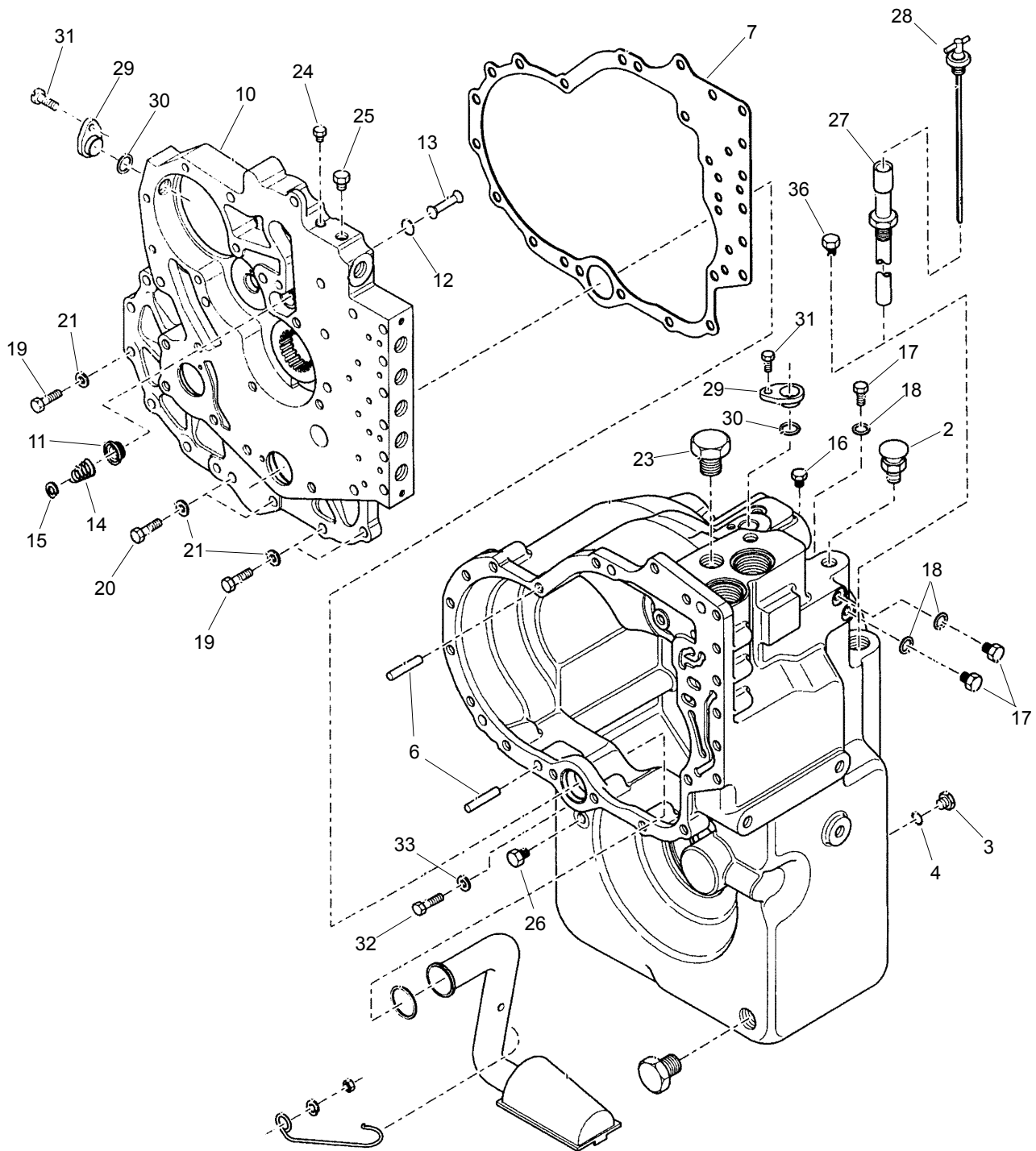


Transmission

RS Series

Case and Plate - (RS6 and RS8 Models)

RS6 and RS8 Models Only





Telescopic Handler

Transmission

Case and Plate - (RS6 and RS8 Models)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	NSS	CASE-TRANSMISSION	1	18	L99284	O-RING/PLUG	3
02	L94824	BREATHING/AIR	1	19	L99018	SCREW	7
03	L99251	PLUG	2	20	L99045	SCREW	2
		(includes item 4)		21	L99029	WASHER/LOCK	9
04	L99013	O-RING/PLUG	2	22	L98184	ASSY/TUBE & SCREEN	1
		(part of item item 3)		23	L99274	PLUG	1
05	L99253	PLUG/MAGNETIC DRAIN	1	24	L99246	PLUG	1
06	L98927	PIN/DOWEL PLATE TO CASE	2	25	L99262	PLUG	1
07	L98926	GASKET/PLATE TO CASE	1	26	106175	PLUG	1
08	L98185	RING/TUBE SEAL	1	27	L98734	TUBE/TRANS DIPSTICK	1
09	L98176	CLIP/OIL TUBE RETAINER	1	28	L98735	TRANS DIPSTICK TUBE	1
10	102949	PLATE, SPACER	1	29	L99287	PLUG	2
11	L98935	SEAT/SAFETY VALVE	1	30	L99312	O-RING	2
12	L98932	SNAP RING	1	31	L99288	SCREW	2
13	L98226	POPPET/SAFETY VALVE	1	32	L99285	SCREW	1
14	L98218	SPRING	1	33	L99294	WASHER/SEAL	1
15	L98217	WASHER/POPPET	1	34	L99295	WASHER/SCREW	1
16	L99246	PLUG	1	35	L99296	NUT	1
17	L99283	PLUG	3				

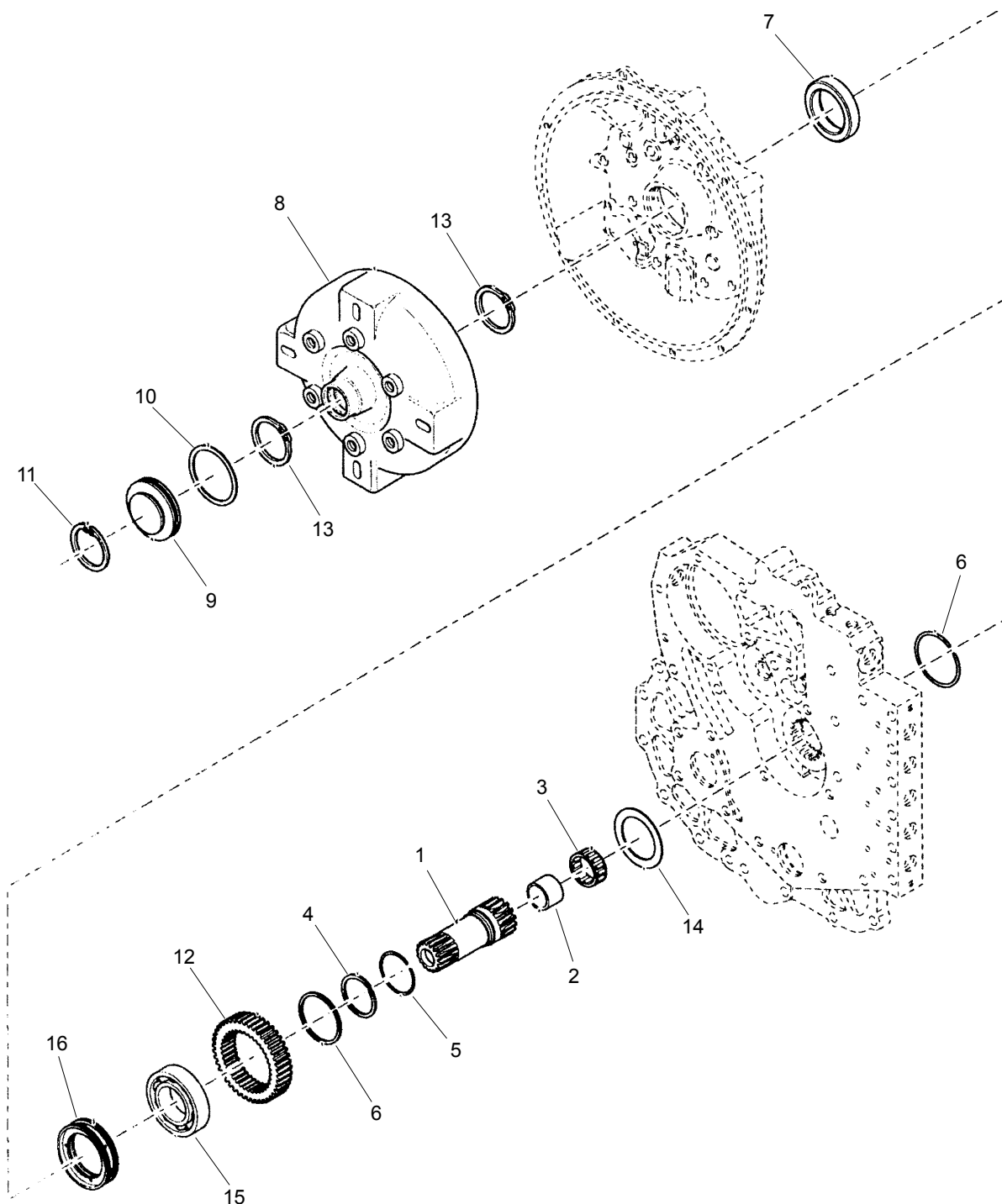
RS6 and RS8 Models Only



Transmission

RS Series

Torque Converter - (RS6 and RS8 Models)



RS6 and RS8 Models Only

**Telescopic Handler****Transmission*****Torque Converter - (RS6 and RS8 Models)***

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L98203	ASSY/STATOR SUPPORT	1	09	L98189	PLUG/BORE	1
02	L98204	BUSHING	1	10	L97525	O-RING/BORE PLUG	1
03	L98197	BEARING/FRONT	1	11	L97526	RING/RET. BORE PLUG	1
04	L98201	RING/PISTON	1	12	L98199	IMPELLER/HUB GEAR	1
05	L98202	EXPANDER/RING	1	13	L98191	SNAP RING/IMPELLER HUB	2
06	L98200	RING/SNAP	2	14	L98205	WASHER/HUB GEAR	1
07	L98194	SEAL/OIL CONV. HSG.	1	15	L98198	BEARING/TORQUE CONVERTER. 1	
08	L99313	ASSY/TORQUE CONVERTER	1	16	L98196	RING/OIL DISTRIBUTOR	1

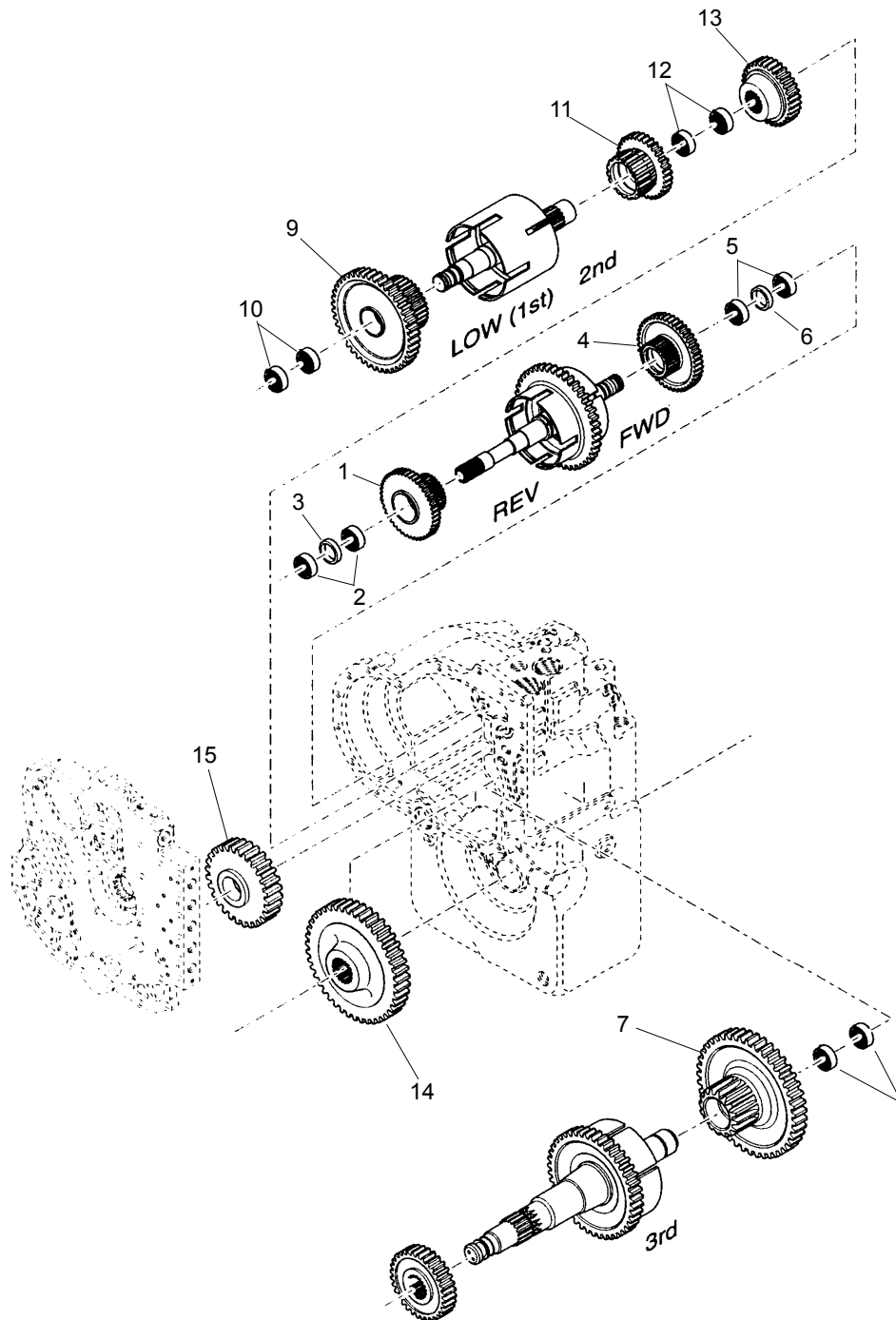
RS6 and RS8 Models Only



Transmission

RS Series

Gear Assembly - (RS6 and RS8 Models)



RS6 and RS8 Models Only



Telescopic Handler

Transmission

Gear Assembly - (RS6 and RS8 Models)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	NSS	ASSY/REV. GEAR & BEARING . . . 1 (includes items 2 and 3)		09	L98968	1st CLUTCH GEAR/BRG. ASSY . . . 1 (includes item 9)	
02	L98253	BEARING/NEEDLE 2 (part of item 1)		10	L98253	BEARING/NEEDLE 2 (part of item 9)	
03	L98254	SPACER/CLUTCH GEAR 1 (part of item 1)		11	L98276	2nd CLUTCH GEAR/BRG. ASSY . . 1 (includes item 12)	
04	NSS	ASSY/FOR. GEAR & BEARING . . . 1 (includes items 5 and 6)		12	L98253	BEARING/NEEDLE 2 (part of item 11)	
05	L98253	BEARING/NEEDLE 2 (part of item 4)		13	L98277	GEAR/THIRD DRIVEN - 18T 1	
06	L98254	SPACER/CLUTCH GEAR 1 (part of item 4)		14 ^a	L98284	GEAR/OUTPUT SHAFT - 40T 1	
07	L500407	ASY. 3RD CLUTCH GEAR 1 (includes item 8)		15 ^b	L98955	GEAR/REVERSE IDLER - 28T 1	
08	L500408	BEARING-3RD CLUTCH GEAR . . . 2 (part of item 7)		16	L500409	GEAR/FIRST DRIVEN - 27T 1	

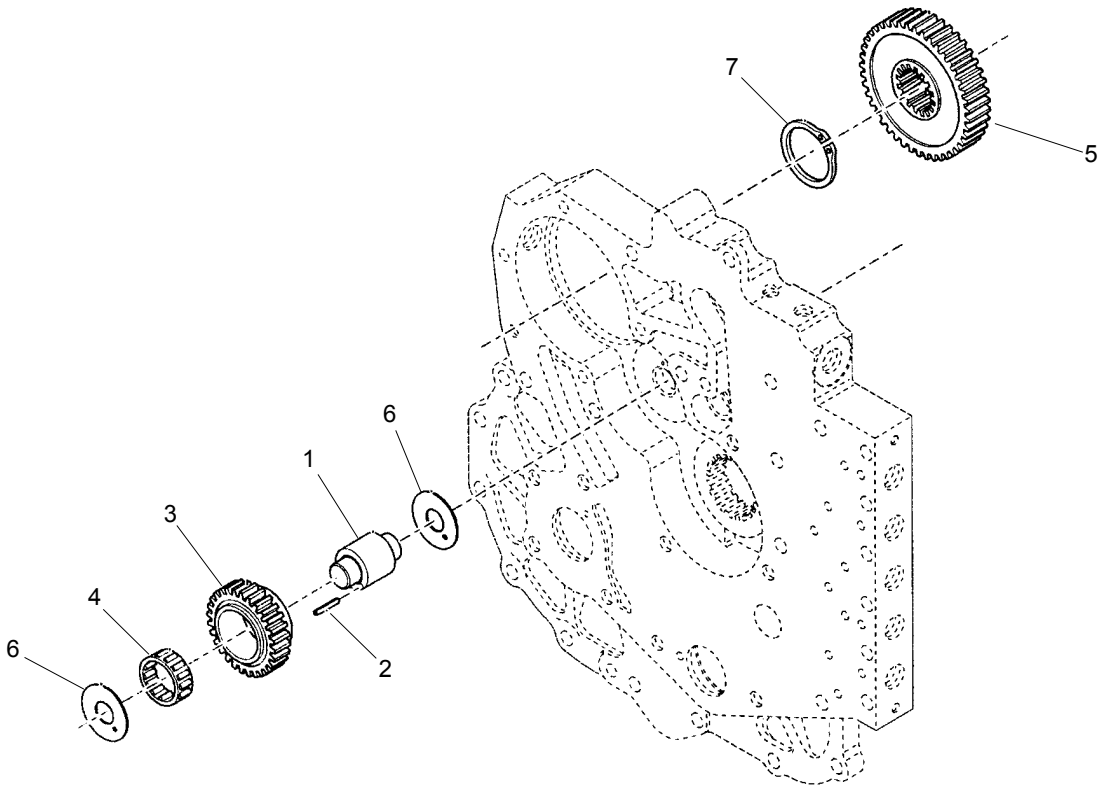
a Refer to section "Output Shaft" for more information.

b Refer to section "Reverse Idler" for more information.



Transmission
Pump Drive - (RS6 and RS8 Models)

RS Series



RS6 and RS8 Models Only

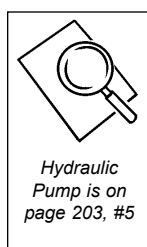
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L98945	IDLER/SHAFT & PIN. 1 (includes item 2)	1	04	L98943	BEARING/IDLER GEAR 1	1
02	L98947	ROLL PIN 1 (part of item 1)	1	05	L98211	GEAR/DRIVE. 1	1
03	L98944	GEAR/IDLER,PUMP DRIVE 1	1	06	L98942	WASHER/THRUST 2	2
				07	L98212	RING/SNAP..... 1	1



Telescopic Handler

Transmission

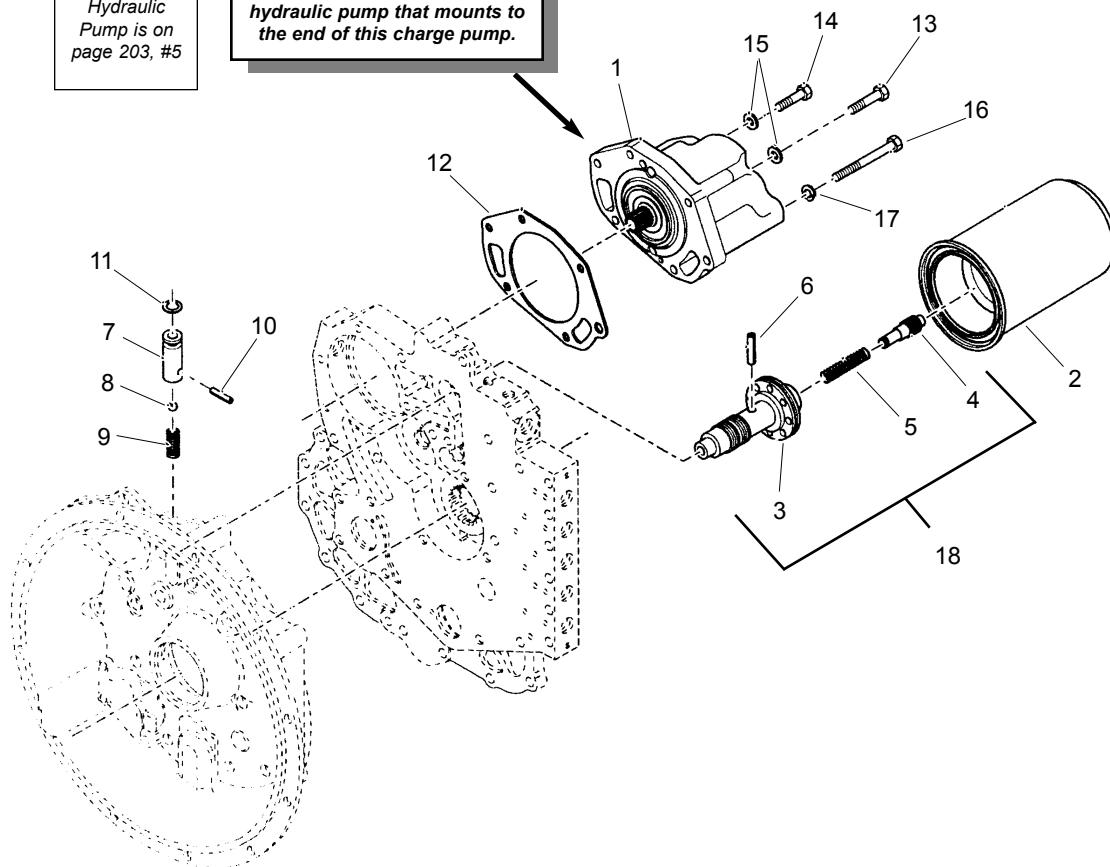
Charge Pump - (RS6 and RS8 Models)



Hydraulic
Pump is on
page 203, #5

CHARGE PUMP

Not to be confused with the
hydraulic pump that mounts to
the end of this charge pump.



RS6 and RS8 Models Only

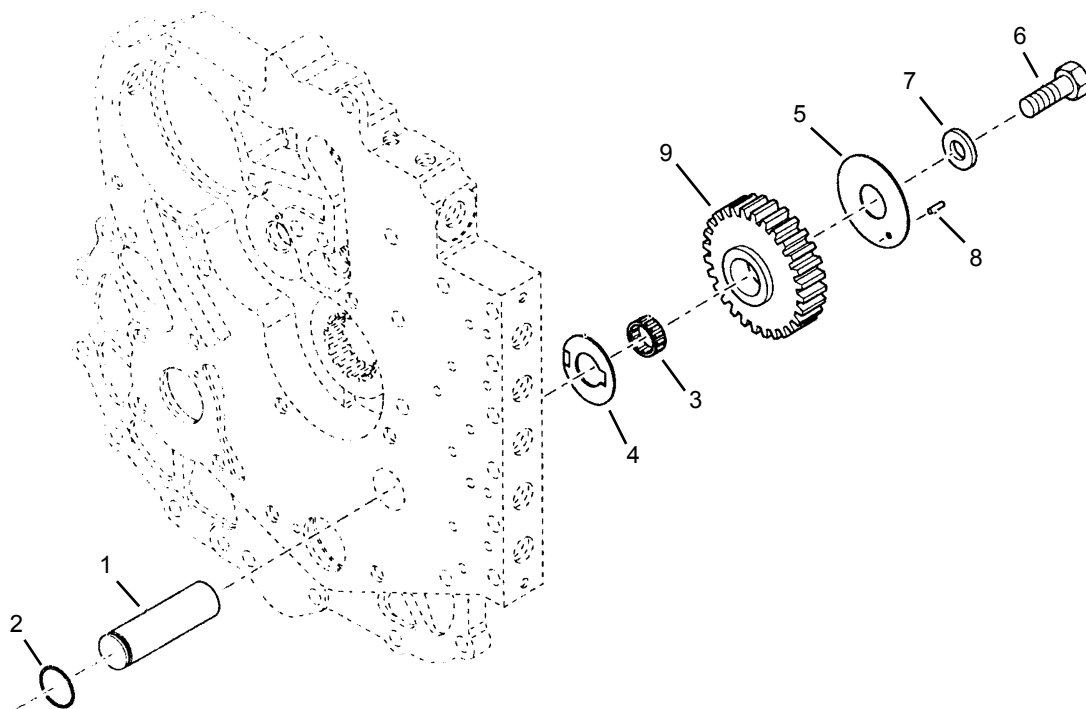
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L98220	CHARGE PUMP / T12000	1	10	L98214	PIN	1
02	L99184	TRANSMISSION FILTER	1	11	L98948	O-RING	1
03	L98953	SLEEVE	1	12	L98219	GASKET/CHARGE PUMP	1
04	L98950	PISTON	1	13	L99025	SCREW	4
05	L98951	SPRING	1	14	L99023	SCREW	1
06	L98224	PIN/CLARK TRANS.	1	15	L99020	WASHER/LOCK	5
07	L98949	ASSY/BALL CHECK VALVE	1	16	L99027	SCREW	1
		(includes items 8 thru 11)		17	L99029	WASHER/LOCK	1
08	L98215	BALL	1	18	L98954	ASY., REGULATOR VALVE	1
09	L98216	SPRING	1			(includes items 3-6)	



Transmission

RS Series

Reverse Idler - (RS6 and RS8 Models)



RS6 and RS8 Models Only



Telescopic Handler

Transmission

Reverse Idler - (RS6 and RS8 Models)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L98229	SHAFT IDLER & PILOT	1	06	L99031	CAPSCREW	1
02	L98228	RING/SNAP	1	07	L99032	WASHER	1
03	L98231	BEARING/REV IDLER GEAR	1	08	L98233	END PLATE	1
04	L98230	WASHER/THRUST	1	09	L98955	GEAR (24T)	1
05	L98232	END PLATE	1				

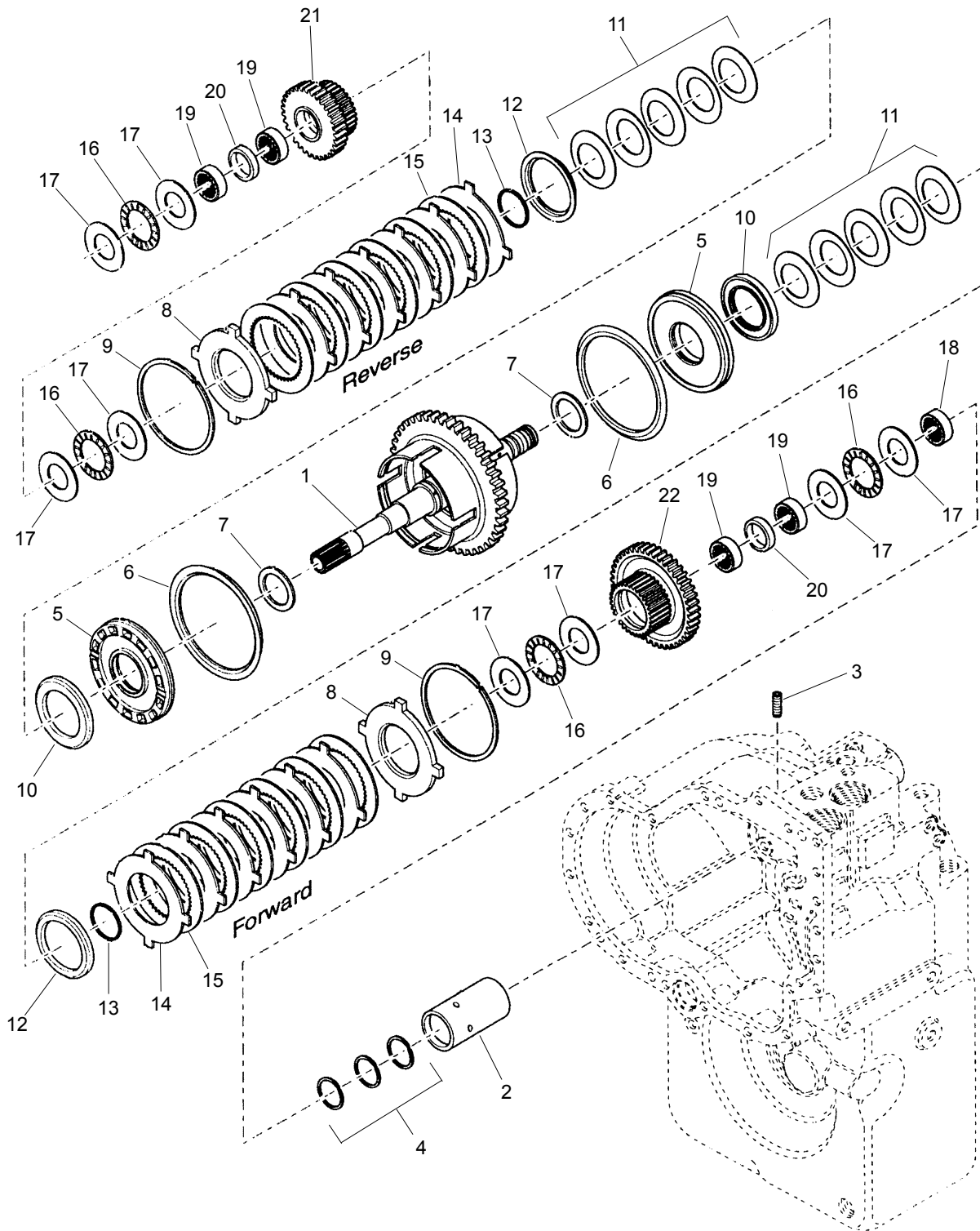
RS6 and RS8 Models Only



Transmission

RS Series

Forward and Reverse - (RS6 and RS8 Models)



RS6 and RS8 Models Only

**Telescopic Handler****Transmission****Forward and Reverse - (RS6 and RS8 Models)**

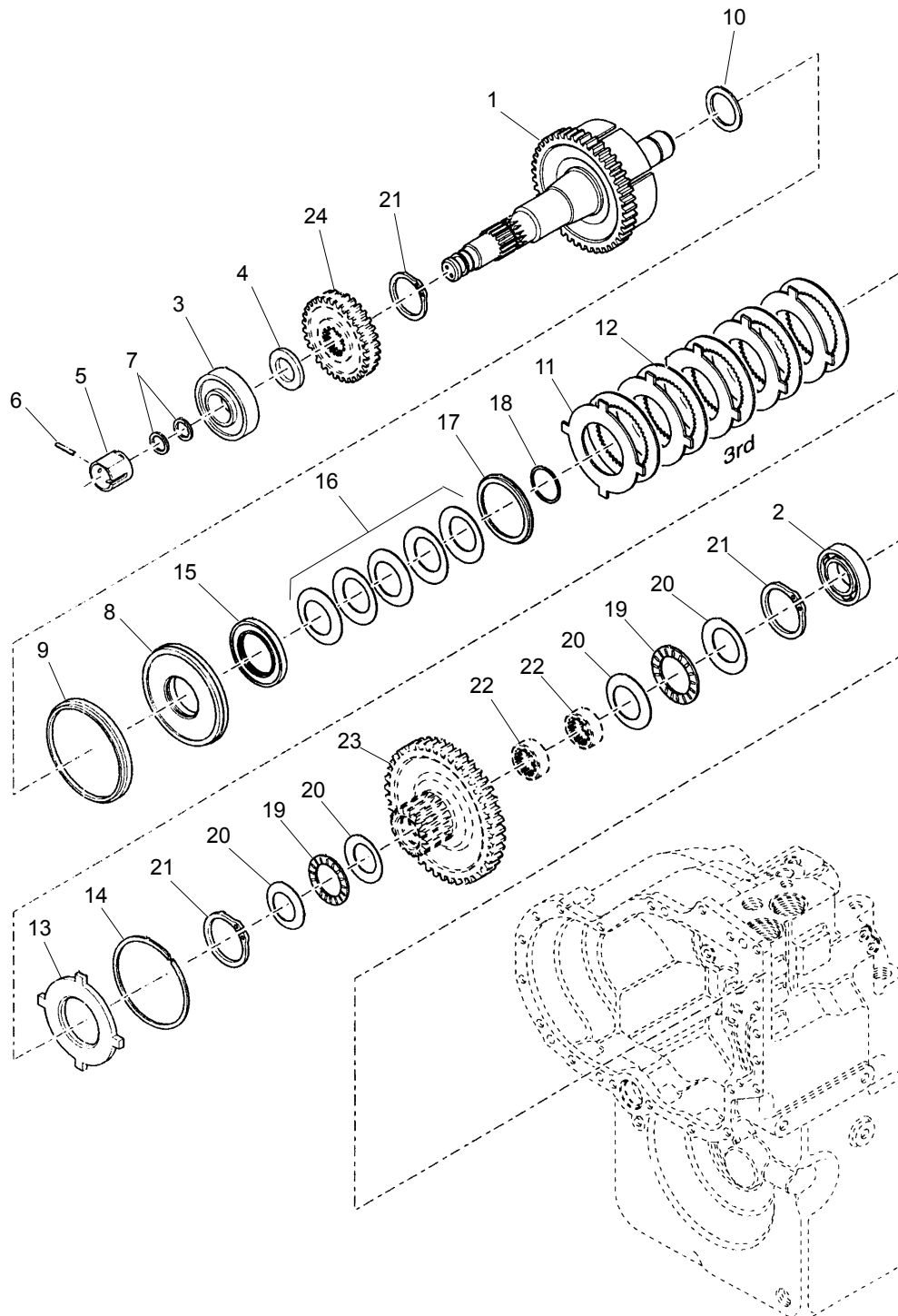
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L98248	ASY/TURB SHFT DRUM & PLUG .	1	12	L98242	RETAINER.....	2
02	L98251	SLEEVE/OIL DISTRIBUTOR.....	1	13	L98241	RETAINER/SNAP RING	2
03	L98252	SCREW	1	14	L98240	CLUTCH/OUTER FWD.....	12
04	L98250	RING/PISTON	3	15	L98239	CLUTCH/INNER FWD.....	12
05	L99278	ASY/PISTON	2	16	L98236	BEARING.....	4
		<i>(includes items 6 and 7)</i>		17	L98235	WASHER/THRUST	8
06	L98246	SEAL/OUTER PISTON	2	18	L98249	BEARING/REAR	1
		<i>(part of item 5)</i>		19	L98253	BEARING/CLUTCH GEAR	4
07	L98247	SEAL/INNER PISTON.....	2	20	L98254	SPACER/CLUTCH GEAR.....	2
		<i>(part of item 5)</i>		21	L98962	ASSY/REV. AND BRG.	1
08	L98238	PLATE/END	2			<i>(includes items 19 and 20)</i>	
09	L98237	RING/SNAP	2	22	L98255	ASSY/FOR. GEAR AND BRG.	1
10	L98244	PLATE/WEAR	2			<i>(includes items 19 and 20)</i>	
11	L98961	ASY/DISC SPRING Pkg 5.....	2				



Transmission

RS Series

Third Gear - (RS6 and RS8 Models)



RS6 and RS8 Models Only

**Telescopic Handler****Transmission*****Third Gear - (RS6 and RS8 Models)***

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L500410	ASY-3RD SHAFT, DRUM & PLUG .	1	13	L98238	PLATE/END	1
02	L500411	BEARING-ROLLER	1	14	L98237	RING/SNAP	1
03	L500273	ASSY/BEARING & SEAL	1	15	L98244	RING/SNAP	1
04	L500412	WASHER-BEARING SUPPORT . . .	1	16	L98961	ASY/DISC SPRG PKG 5	1
05	L98258	SLEEVE/OIL DISTRIBUTOR	1	17	L98242	RETAINER	1
06	L98257	SCREW/SLEEVE LOCK	1	18	L98241	RETAINER/SNAP RING	1
07	L98250	RING/PISTON	2	19	L500413	BEARING-THRUST NEEDLE	2
08	L99279	ASSY/CLTCH PISTON & BALL . . .	1	20	L500414	WASHER/CLTCH GEAR THRUST . .	4
09	L98246	SEAL/OUTER PISTON	1	21	L99696	RING/SNAP	3
10	L98247	SEAL/INNER PISTON	1	22	L500408	BEARING-3RD CLUTCH GEAR . . .	2
11	L98240	CLUTCH/OUTER FWD	5	23	L500407	ASY. 3RD CLUTCH GEAR	1
12	L98239	CLUTCH/INNER FWD	5	24	L500409	GEAR-FIRST DRIVEN	1

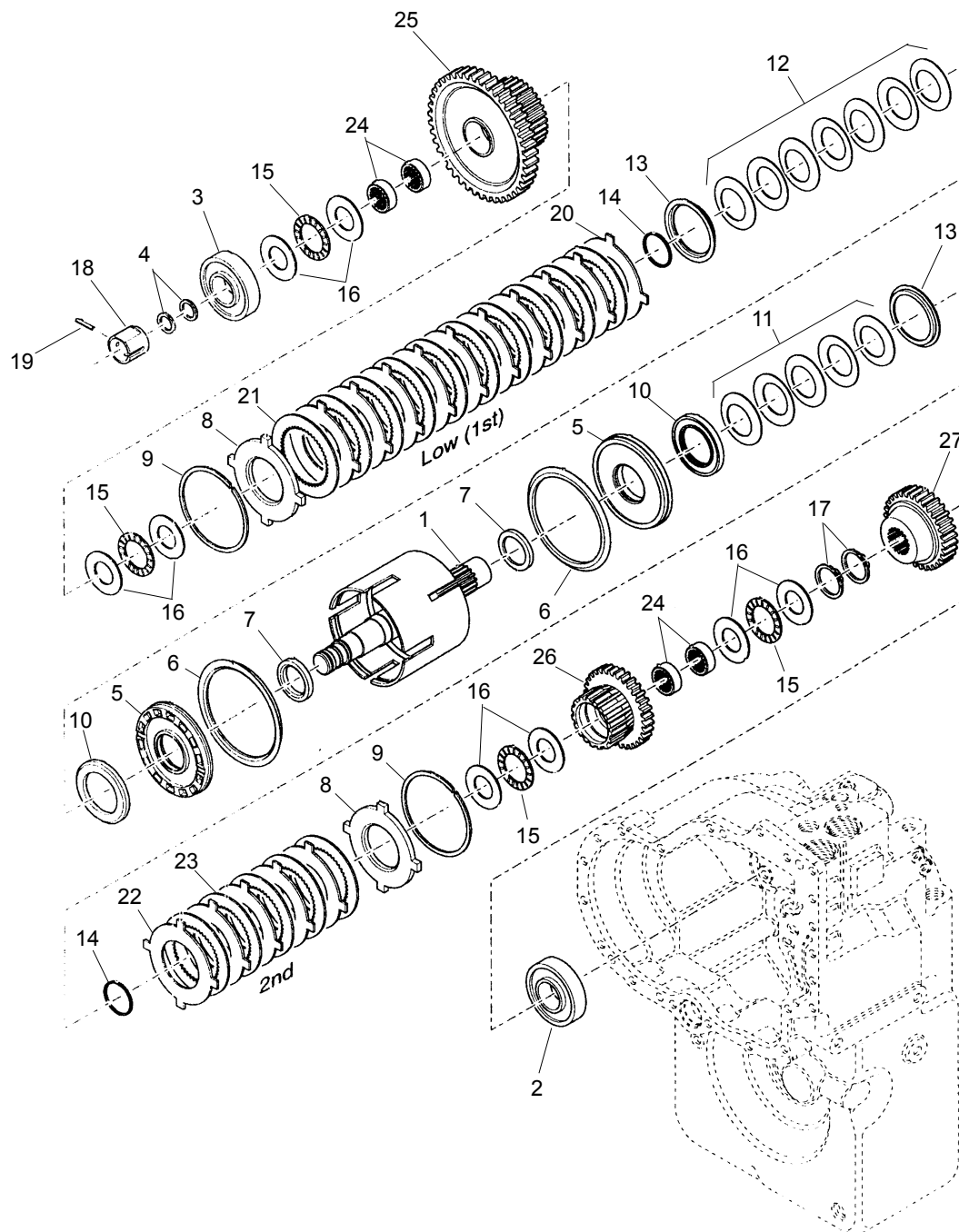
RS6 and RS8 Models Only



Transmission

RS Series

First and Second Gear - (RS6 and RS8 Models)



RS6 and RS8 Models Only

**Telescopic Handler****Transmission*****First and Second Gear - (RS6 and RS8 Models)***

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L98274	ASY-1ST 2ND SHAFT.....	1	16	L98235	WASHER/THRUST.....	8
02	L98275	BEARING/REAR.....	1	17	L98260	RING/SNAP.....	2
03	L500273	ASSY/BEARING & SEAL.....	1	18	L98272	SLEEVE/OIL DISTRIBUTOR.....	1
04	L98250	RING/PISTON.....	2	19	L98257	SCREW/SLEEVE LOCK.....	1
05	L99038	PISTON/CLUTCH & SEALS.....	2	20	L98240	CLUTCH/OUTER FWD.....	10
06	L98246	SEAL/OUTER PISTON.....	2	21	L98239	CLUTCH/INNER FWD.....	10
07	L98247	SEAL/INNER PISTON.....	2	22	L98240	CLUTCH/OUTER FWD.....	5
08	L98238	PLATE/END.....	2	23	L98239	CLUTCH/INNER FWD.....	5
09	L98237	RING/SNAP.....	2	24	L98253	BEARING/CLUTCH GEAR.....	4
10	L98244	PLATE/WEAR.....	2	25	L98968	1ST CLUTCH GEAR/BRG ASSY ..	1
11	L98961	ASSY/DISC SPRG PKG 5.....	1			<i>(includes item 24)</i>	
12	L500416	SPRING/DISC ASSY PKG (7)....	1	26	L98276	2ND CLUTCH GEAR/BRG ASSY ..	1
13	L98242	RETAINER.....	2			<i>(includes item 24)</i>	
14	L98241	RETAINER/SNAP RING.....	2	27	L98277	GEAR/3RD DRIVEN.....	1
15	L98236	BEARING.....	4				

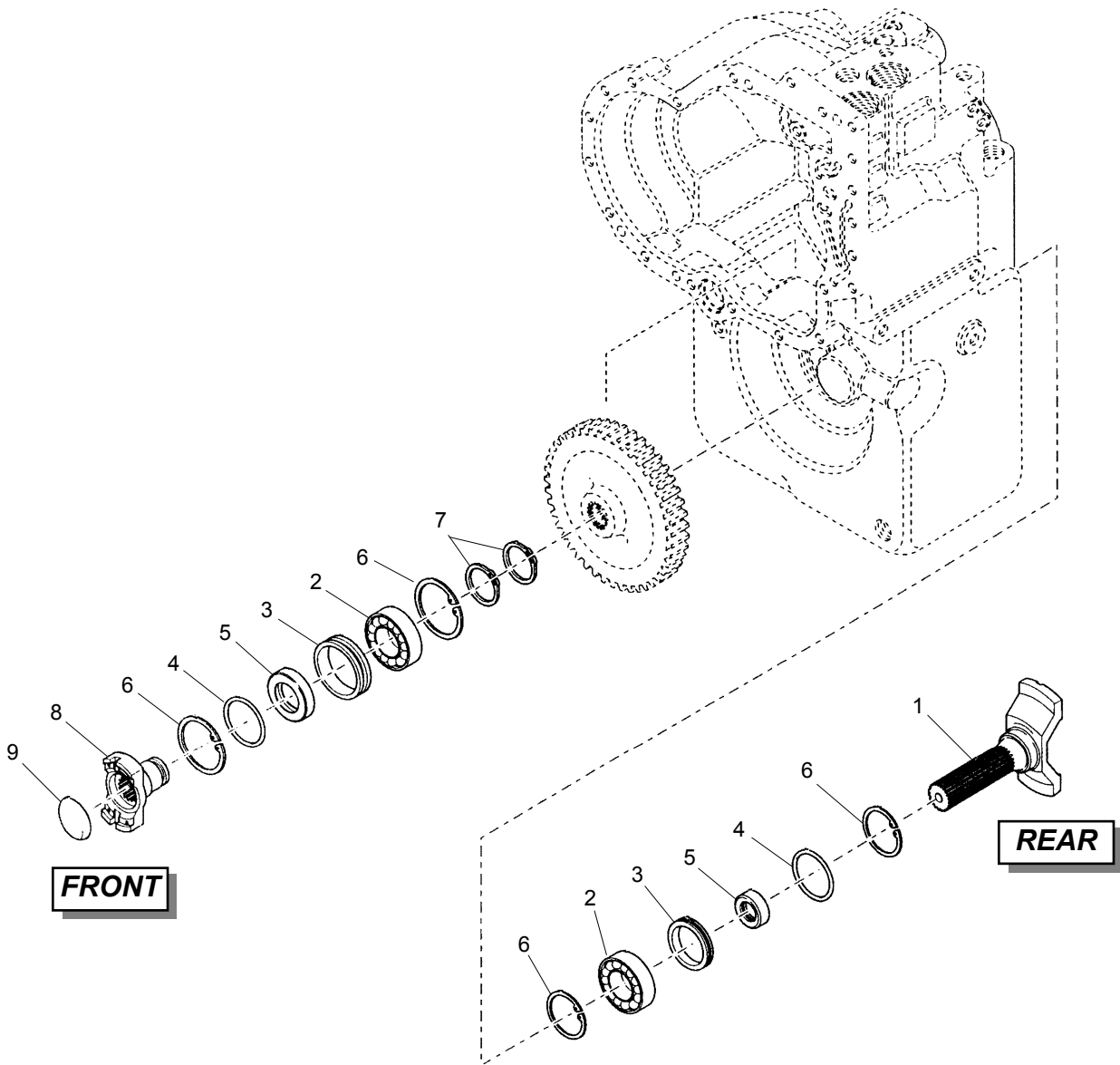
RS6 and RS8 Models Only



Transmission
Output Shaft - (RS6 and RS8 Models)

RS Series

RS6 and RS8 Models Only



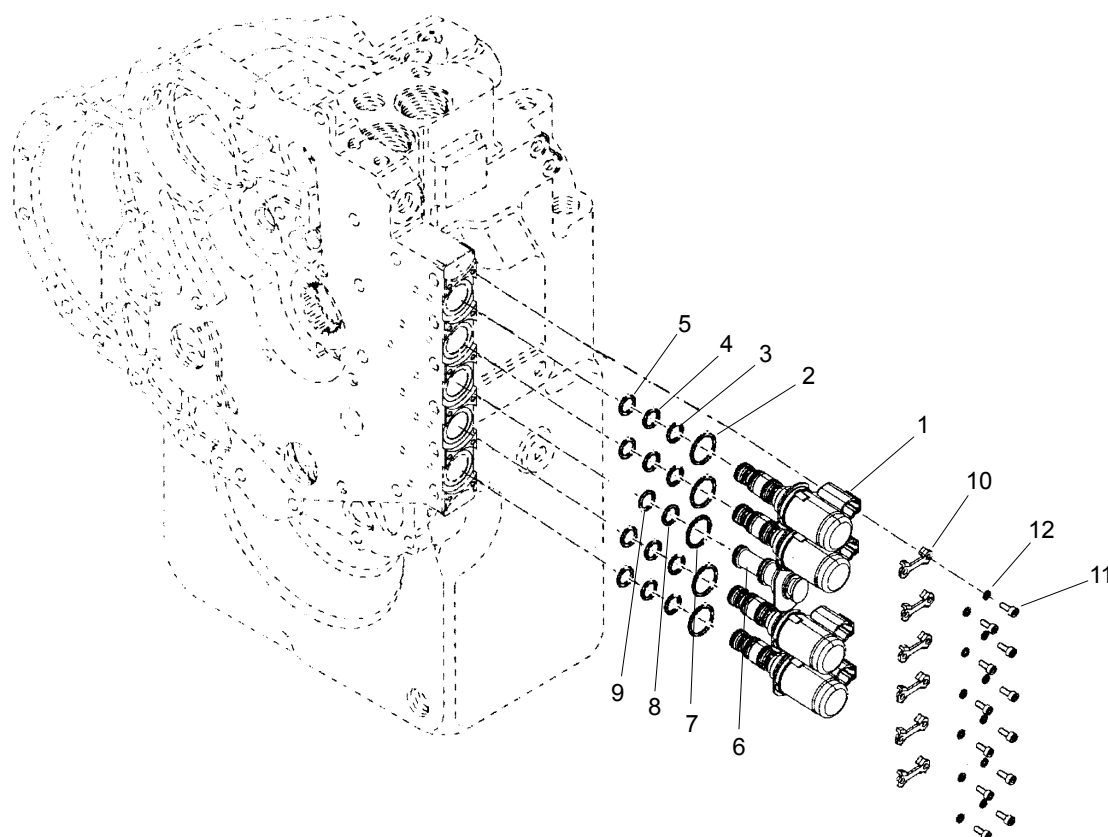
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L500274	SHAFT/OUTPUT	1	06	L98264	RING/SNAP	4
02	L98282	BEARING/SHAFT	2	07	L98266	RING/SNAP	2
03	L98281	SLEEVE/OIL SEAL	2	08	L98279	FLANGE/OUTPUT & PLUG ASSY .	1
04	L98268	O-RING/SLEEVE	2	09	L98278	PLUG/FLANGE	1
05	L96053	SEAL/OUTPUT SHAFT OIL	2				



Telescopic Handler

Transmission

Electronic Controllers - (RS6 and RS8 Models)



RS6 and RS8 Models Only

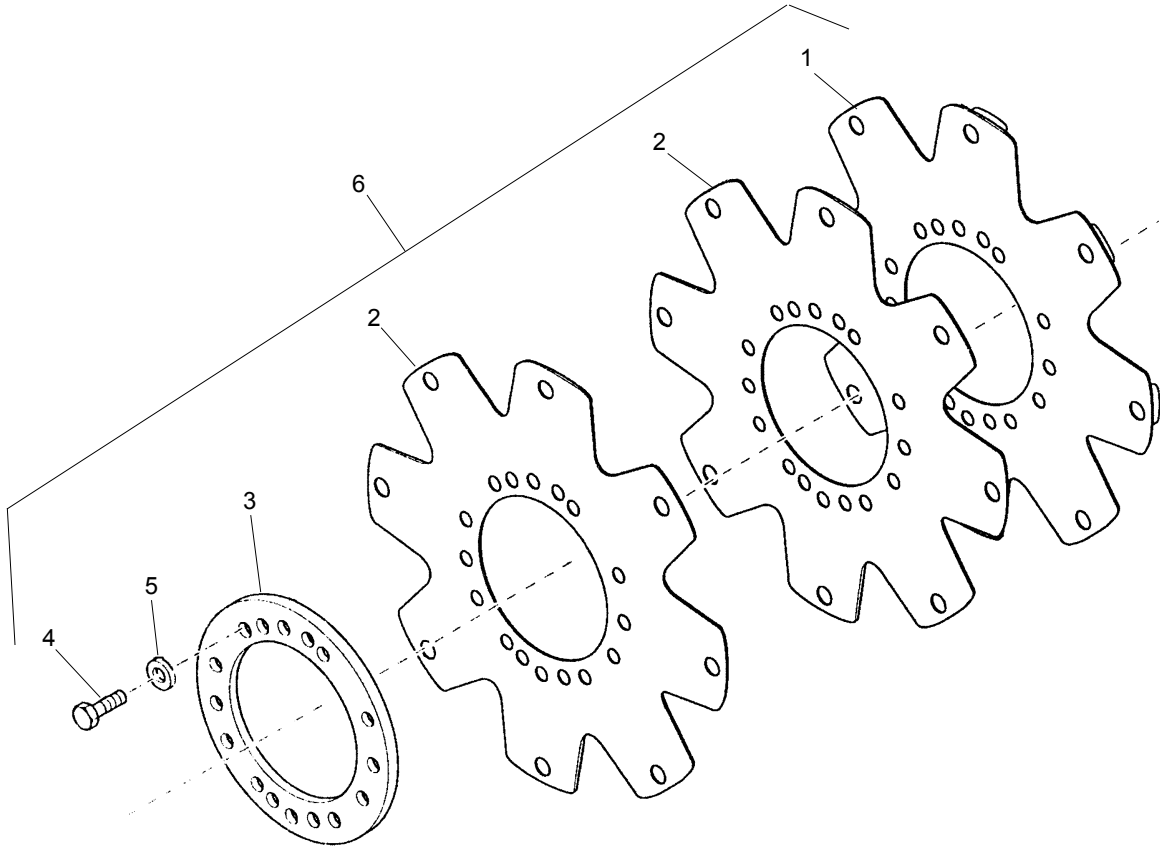
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102950	SOLENOID, W / DEUTSCH CON. . . 4 (includes items 2 thru 5)		07	102956	O-RING, 18.0 X 2.20MM 1 (included with item 6)	
02	102951	O-RING, 21.5 X 1.5MM 4 (included with item 1)		08	102952	O-RING, 15.1 X 1.60MM 1 (included with item 6)	
03	102952	O-RING, 15.1 X 1.60MM 4 (included with item 1)		09	102954	O-RING, 12.1 X 1.60MM 1 (included with item 6)	
04	102953	O-RING, 14.1 X 1.60MM 4 (included with item 1)		10	102957	CLAMP, SOLENOID 6	
05	102954	O-RING, 12.1 X 1.60MM 4 (included with item 1)		11	106259	CAPSCREW 12	
06	102955	PLUG, SOLENOID BORE 1 (includes items 7, 8 and 9)		12	102959	WASHER, PLAIN. 12	



Transmission

Drive Plate - (RS6 and RS8 Models)

RS Series



RS6 and RS8 Models Only

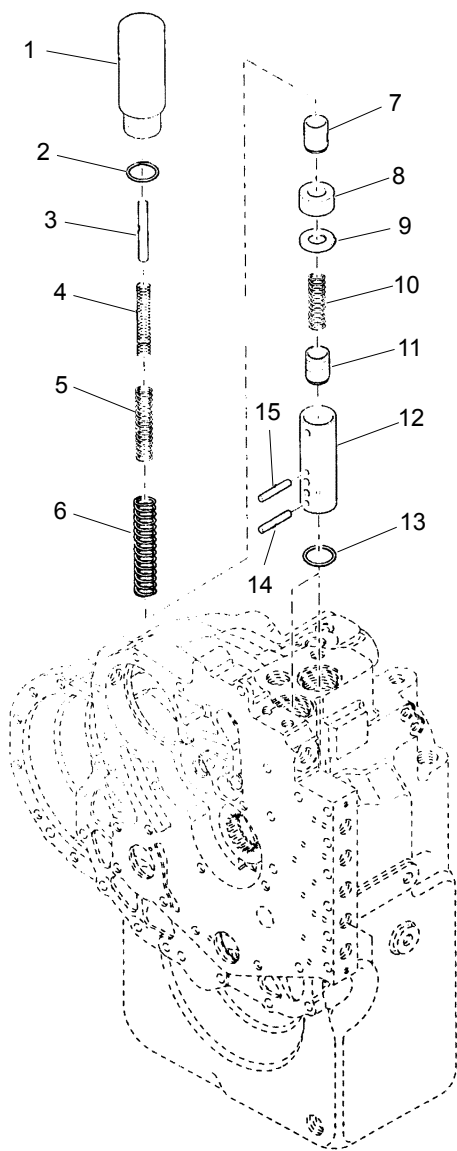
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	NSS	ASSY/DRIVE PLATE..... 1		04	L99785	SCREW/DRIVE PLATE MNTG 6	
		(included in item 6)		05	L99030	LOCKWASHER/DRIVEPLATE 6	
02	NSS	DRIVE PLATE 2		06	L98317	KIT/DRIVE PLATE ASSY 1	
		(included in item 6)				(includes items 1 thru 5)	
03	L98316	RING/DRIVE PLATE BACKING ... 1					



Telescopic Handler

Transmission

Modulation Valve - (RS6 and RS8 Models)



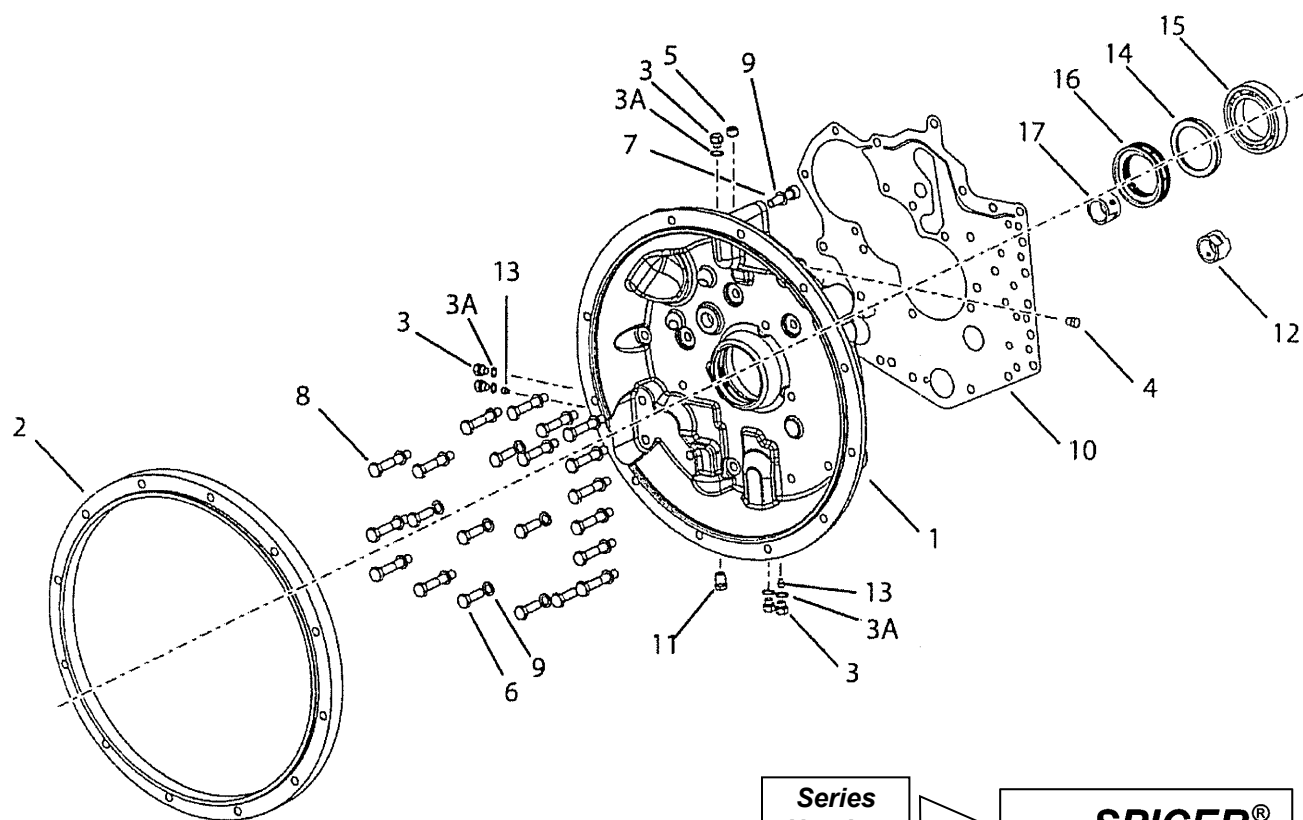
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L98291	HOUSING MODULATOR VALVE . . .	2	09	L98301	SPACER	2
02	L98292	O-RING	2	10	L98300	SPRING	2
03	L98293	PIN STOP	2	11	L98958	SPOOL	2
04	L98294	SPRING INNER	2	12	L98298	SLEEVE-MODULATION VALVE . . .	2
05	L98295	SPRING MIDDLE	2	13	L98307	O-RING	2
06	L98304	SPRING OUTER	2	14	L98957	PIN-LOWER	2
07	L98303	SPOOL ACCUMULATOR	2	15	L98956	PIN-UPPER	2
08	L98302	RETAINER	2				



Transmission

RS Series

Torque Converter Housing - (RS10 and RS12 Models)



Series
Number

SPICER®

MODEL
SERIAL

The model/serial number plate is located on
the front of transmission case—see page 76.

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106163 50220019	CONVERTER HOUSING <i>Series Number: 863/54</i> <i>Series Number: 863/57</i>	1	07	L99261	SCREW	1
02	106164 NA	SPACER <i>Series Number: 863/54</i> <i>Series Number: 863/57</i>	1	08	L99260	SCREW	16
03	L99283	PLUG	5	09	L99029	LOCK WASHER	23
04	L99284	O-RING	5	10	L98938	GASKET	1
05	L99246	PLUG, REGULATOR PRESS SIDE	1	11	L99249	PLUG	1
06	L99262	PLUG, CHECK VALVE	1	12	106171	SLEEVE, OIL	1
	L99285	SCREW	6	13	L98257	SCREW	2
				14	L98194	SEAL	1
				15	L98198	BALL BEARING	1
				16	L98196	RING	1
				17	L98272	SLEEVE, OIL	1

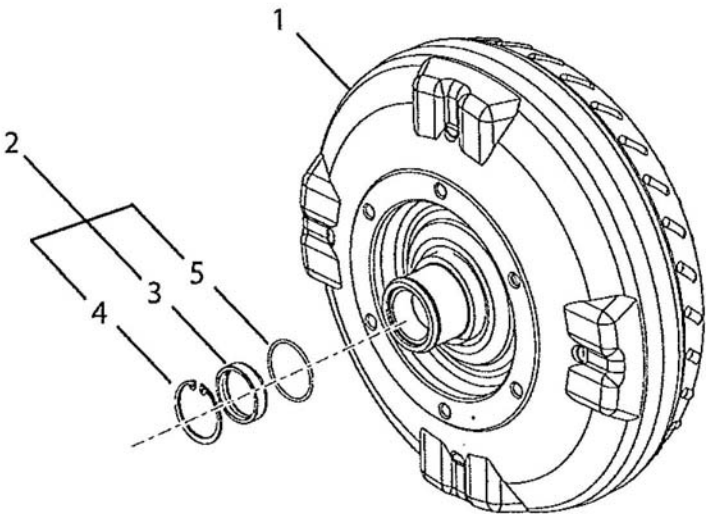
RS10 and RS12 Models Only



Telescopic Handler

Transmission

Torque Converter - (RS10 and RS12 Models)



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106190	TORQUE CONVERTER	1	03	106192	PLUG	1
02	50220012	KIT, TORQUE CONVERTER PLUG 1 (includes items 3, 4 and 5)		04	106194	SNAP RING	1
				05	106193	O-RING	1

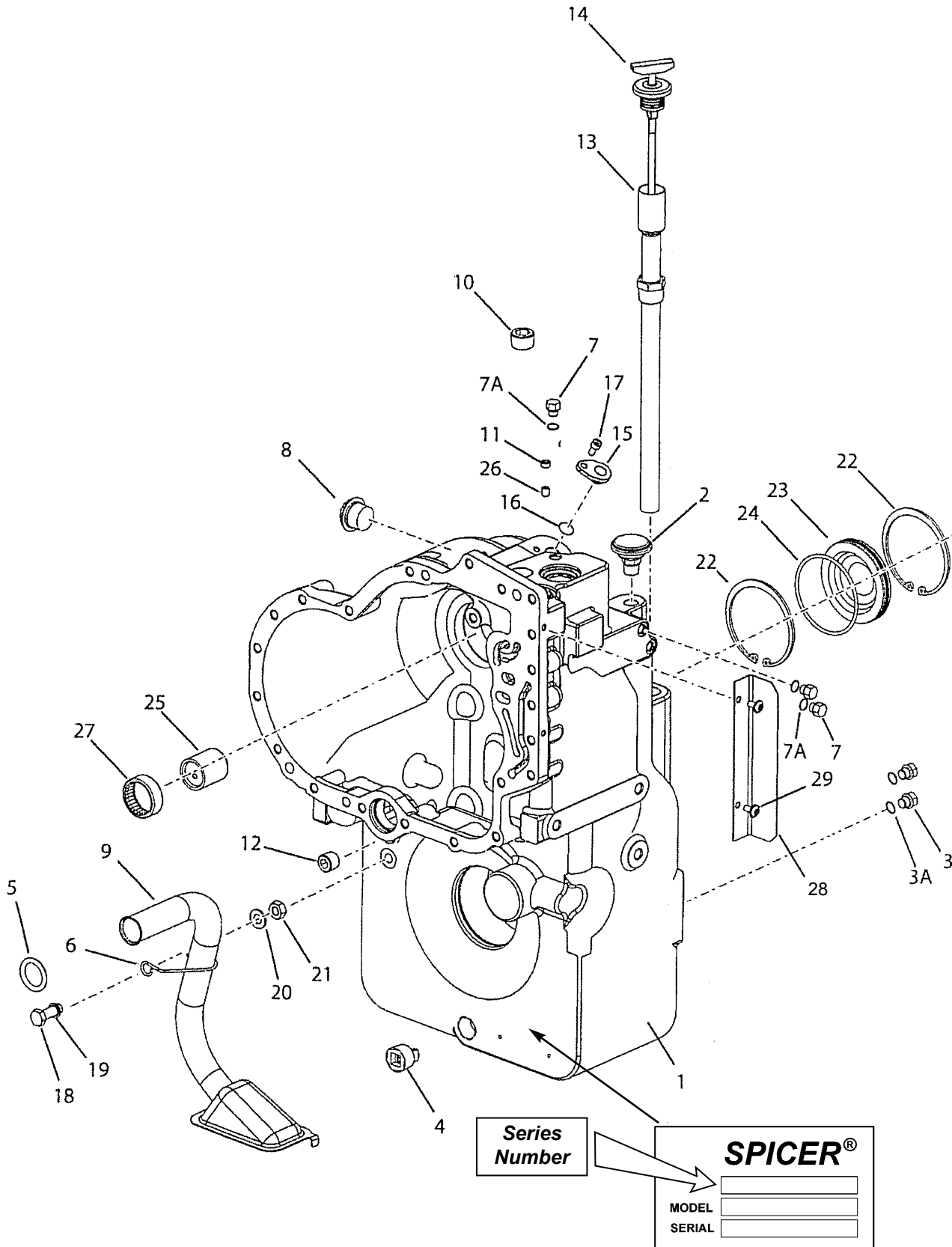
RS10 and RS12 Models Only



Transmission

RS Series

Case - (RS10 and RS12 Models)



The model/serial number plate is located on the front of transmission case—see page 76.

RS10 and RS12 Models Only

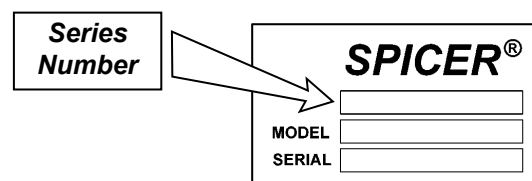


Telescopic Handler

Transmission

Case - (RS10 and RS12 Models)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		CASE-TRANSMISSION	1	14	L98735	DIPSTICK ASSEMBLY	1
	106172	Series Number: 863/54		15	106176	PLUG, SPEED SENSOR	1
	50220010	Series Number: 863/57		16	106177	O-RING, SPEED SENSOR	1
02	L94824	AIR BREATHER, VENT.	1	17	L99288	SCREW	1
03	L99251	PLUG	2	18	L99285	BOLT	1
	L99013	O-RING	2	19	L99294	SEALING WASHER	1
04	L99253	PLUG, MAGNETIC	1	20	L99295	WASHER	1
05	L98185	RING, OIL SUPPLY TUBE	1	21	L99296	NUT	1
06	L98176	CLIP, OIL SUPPLY TUBE	1	22	106180	SNAP RING	2
07	L99283	PLUG	3	23	L99280	PLUG	1
	L99284	O-RING	3	24	L98268	O-RING	1
09	L98184	TUBE, SCREEN ASSEMBLY	1	25	L98251	SLEEVE	1
10	L99274	PLUG	1	26	L98252	SET SCREW	1
11		PLUG	1	27		BEARING	1
	L99770	Series Number: 863/54			L98249	Series Number: 863/54	
	L99246	Series Number: 863/57			50220011	Series Number: 863/57	
12	106175	PLUG	1	28	106181	PLATE	1
13	L98734	TUBE, DIPSTICK	1	29	106182	BOLT, SOCKET HEAD M6	2



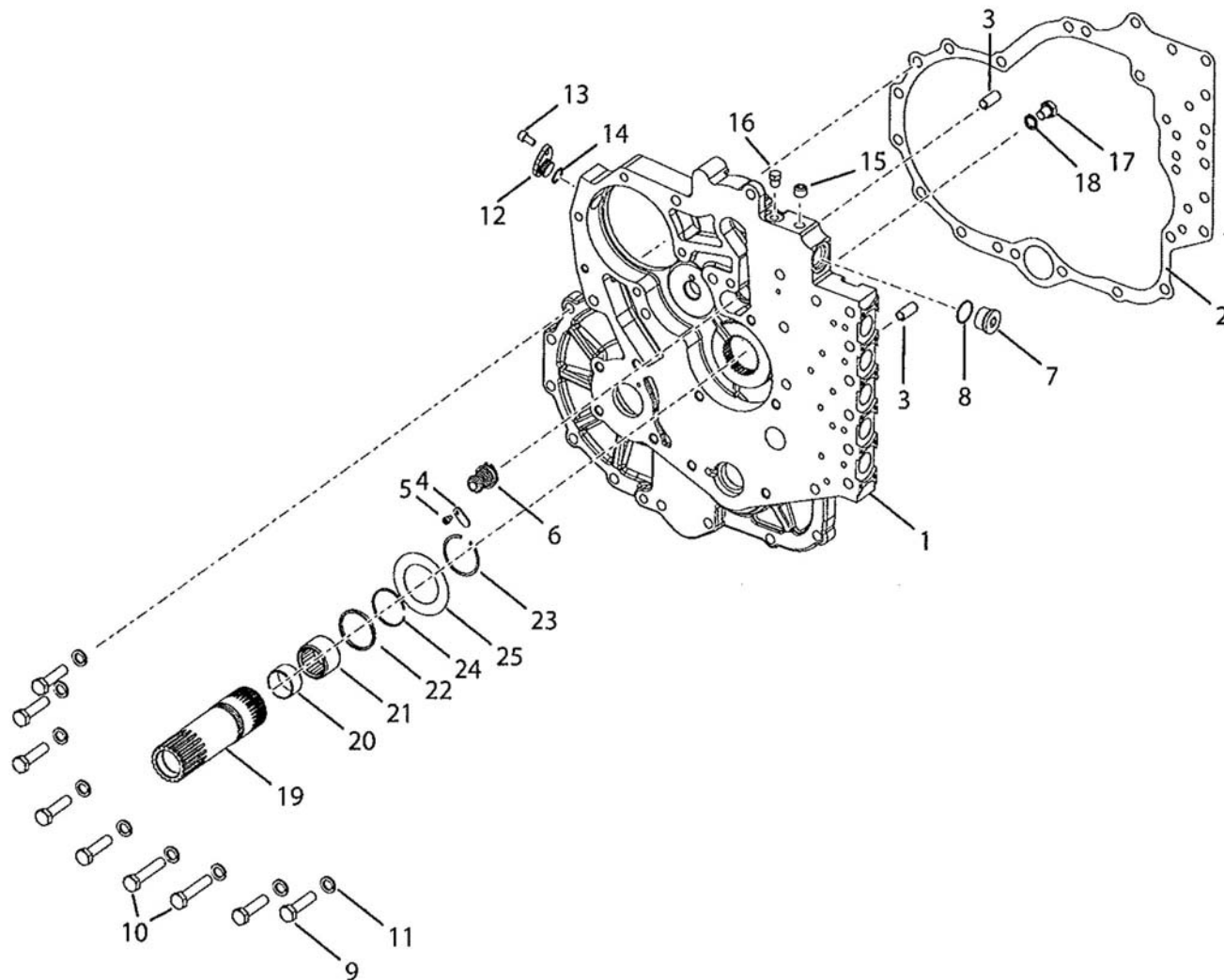
The model/serial number plate is located on the front of transmission case—see page 76.



Transmission

RS Series

Spacer Plate - (RS10 and RS12 Models)



RS10 and RS12 Models Only



Telescopic Handler

Transmission

Spacer Plate - (RS10 and RS12 Models)

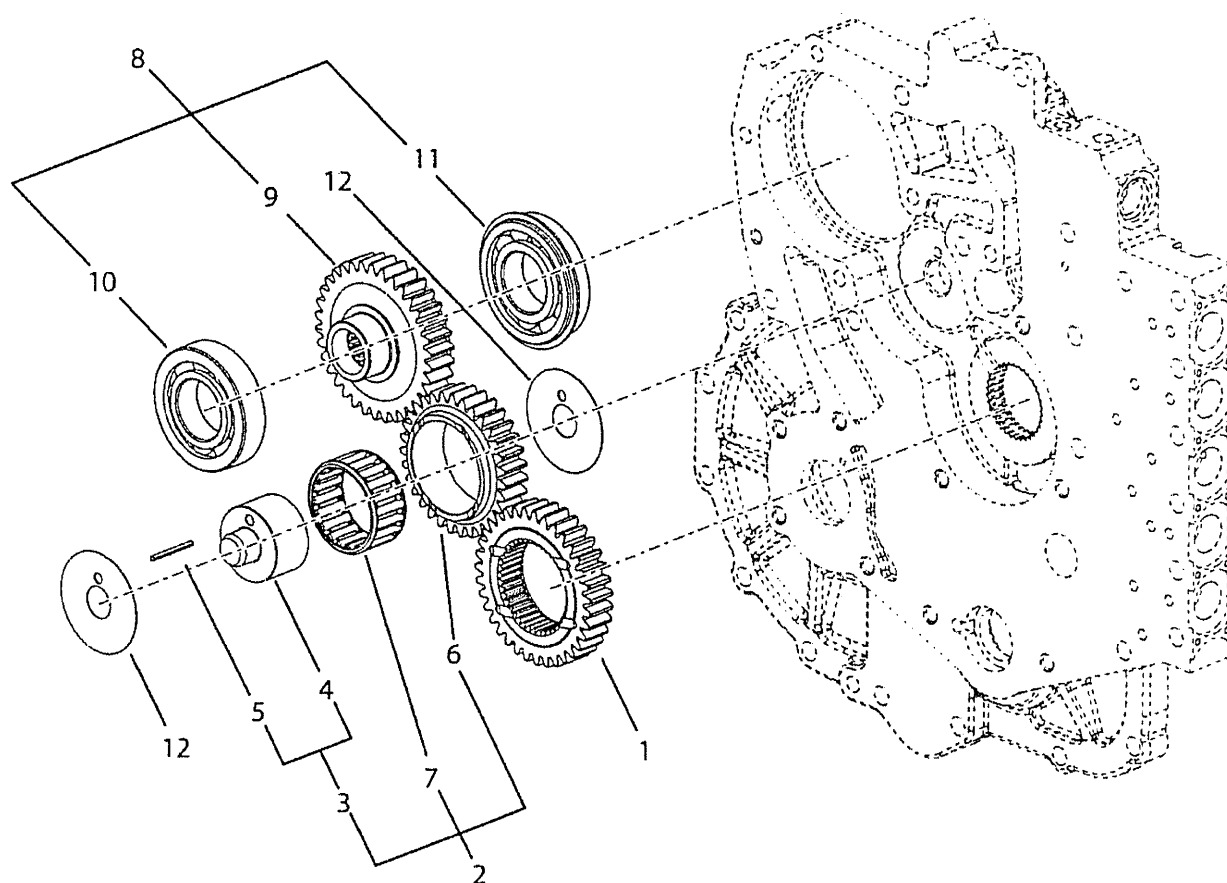
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106183	PLATE, SPACER.....	1	14	106177	O-RING, SPEED SENSOR.....	1
02	L98926	GASKET.....	1	15	L99246	PIPE PLUG.....	1
03	L98927	PIN, ROLL.....	2	16	L99262	PLUG.....	1
04	106184	PLATE, LOCK.....	1	17	106189	BOLT.....	1
05	106185	BOLT.....	1	18	L99294	WASHER.....	1
06	106186	SAFETY VALVE ASSEMBLY.....	1	19	106190	STATOR SUPPORT ASSEMBLY ..	1
07	106187	PLUG <i>(includes item 8)</i>	1			<i>(includes items 3 and 4)</i>	
08	106188	O-RING.....	1	20	L98204	BUSHING.....	1
09	L99018	BOLT.....	7	21	L98197	BEARING, NEEDLE.....	1
10	L99045	BOLT.....	2	22	L98201	RING, PISTON.....	1
11	L99029	LOCK WASHER.....	9	23	L98200	SNAP RING.....	1
12	106176	PLUG, SPEED SENSOR.....	1	24	L98202	EXPANDER SPRING.....	1
13	L99288	BOLT.....	1	25	L98205	WASHER, THRUST.....	1



Transmission

RS Series

Pump Drive - (RS10 and RS12 Models)



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L98954	GEAR, IMPELLER.....	1	07	L98943	BEARING , NEEDLE.....	1
02	106196	PUMP DRIVE IDLER.....	1	08	106201	PUMP DRIVE GEAR.....	1
		(includes items 3, 6 and 7)				(includes items 9, 10 and 11)	
03	106197	PUMP DRIVE SHAFT.....	1	09	106202	GEAR, PUMP DRIVE.....	1
		(includes items 4 and 5)		10	106203	BEARING, BALL.....	1
04	106198	SHAFT, PUMP DRIVE IDLER.....	1	11	106213	BEARING, BALL.....	1
05	106199	PIN, ROLL.....	1	12	L98942	WASHER, THRUST.....	2
06	106200	GEAR, PUMP DRIVE (31T).....	1				

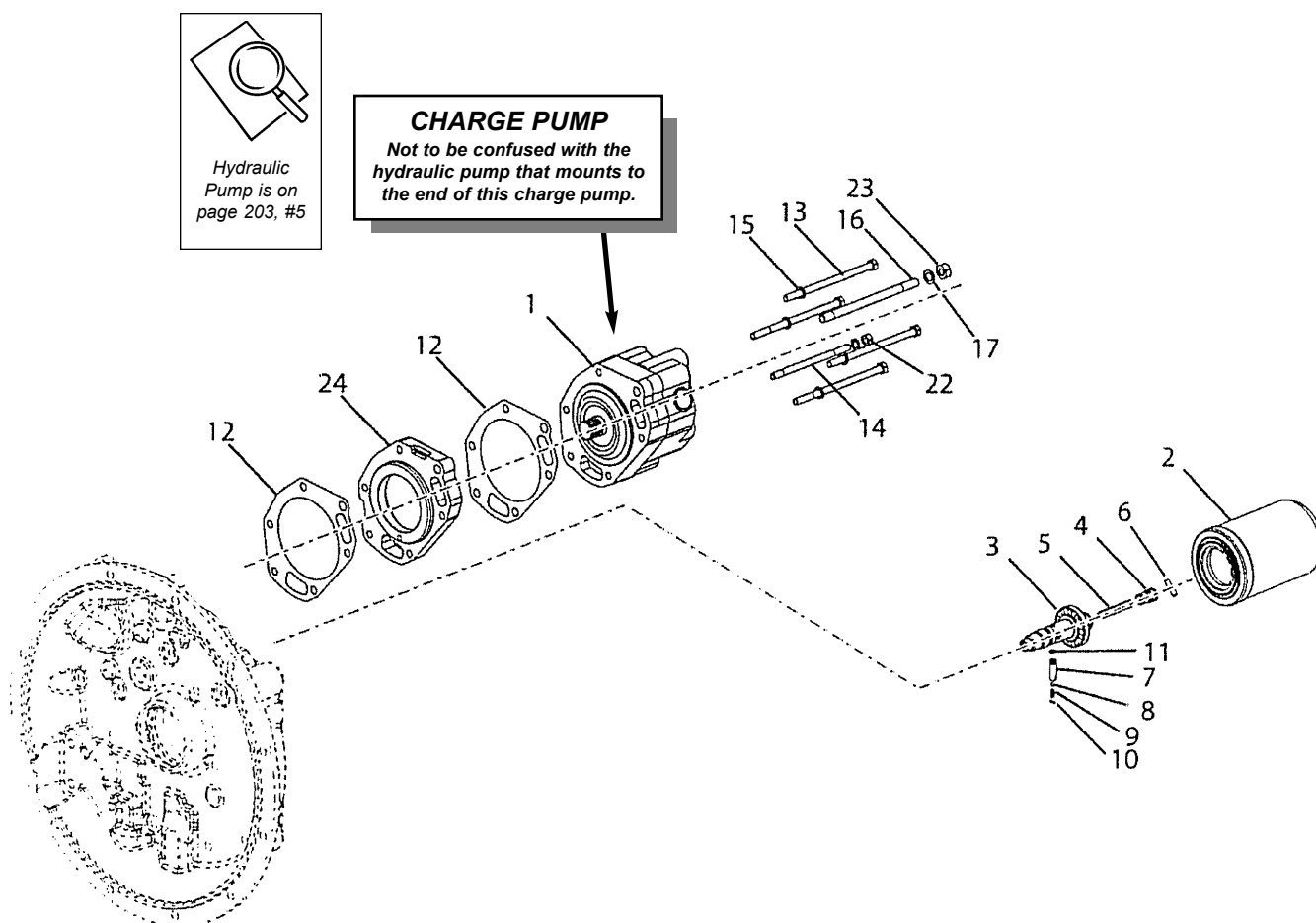
RS10 and RS12 Models Only



Telescopic Handler

Transmission

Charge Pump - (RS10 and RS12 Models)



Ref. No.	Part No.	Description	Qty. Req.
01 ^a	L98220	CHARGE PUMP	1
02	L99184	TRANSMISSION FILTER	1
03	106206	REGULATOR VALVE	1
		(includes items 4-6)	
04	106207	PISTON, REGULATOR VALVE....	1
05	L98951	SPRING.....	1
06	L98224	NEEDLE, ROLLER	1
07	L98949	BALL CHECK VALVE	1
		(includes items 8-11)	
08	L98215	BALL	1
09	L98216	SPRING.....	1
10	L98214	PIN, ROLL	1
11	L98948	O-RING	1

Ref. No.	Part No.	Description	Qty. Req.
12	L98219	GASKET, CHARGE PUMP	1
13	106209	BOLT	4
14	106210	STUD	1
15	L99020	LOCK WASHER	5
16	106212	STUD.....	1
17	L99029	LOCK WASHER	1
22	106216	NUT	1
23	L99296	NUT	1
24	106217	ADAPTER, PUMP TO PLATE....	1

^a **NOTE:** This is the charge pump for the transmission, not the hydraulic pump for the hydraulic system; refer to the Hydraulic section for information regarding the hydraulic pump.

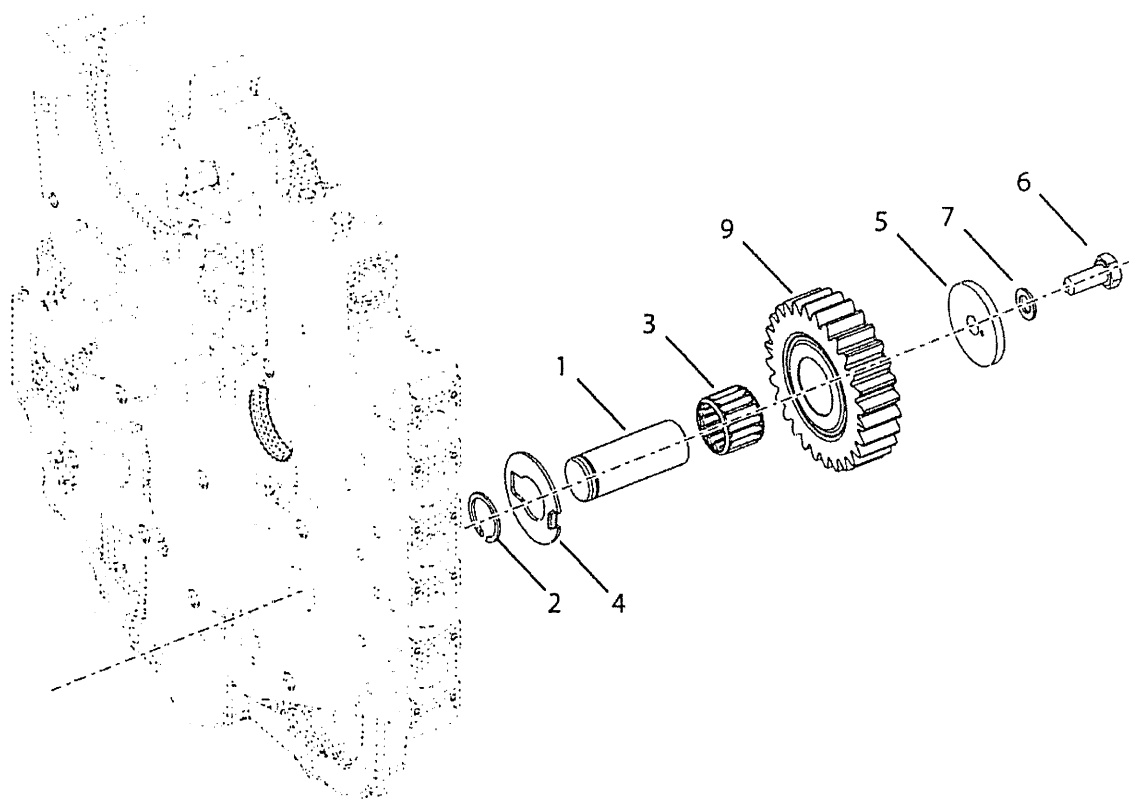
RS10 and RS12 Models Only



Transmission

Reverse Idler - (RS10 and RS12 Models)

RS Series



RS10 and RS12 Models Only

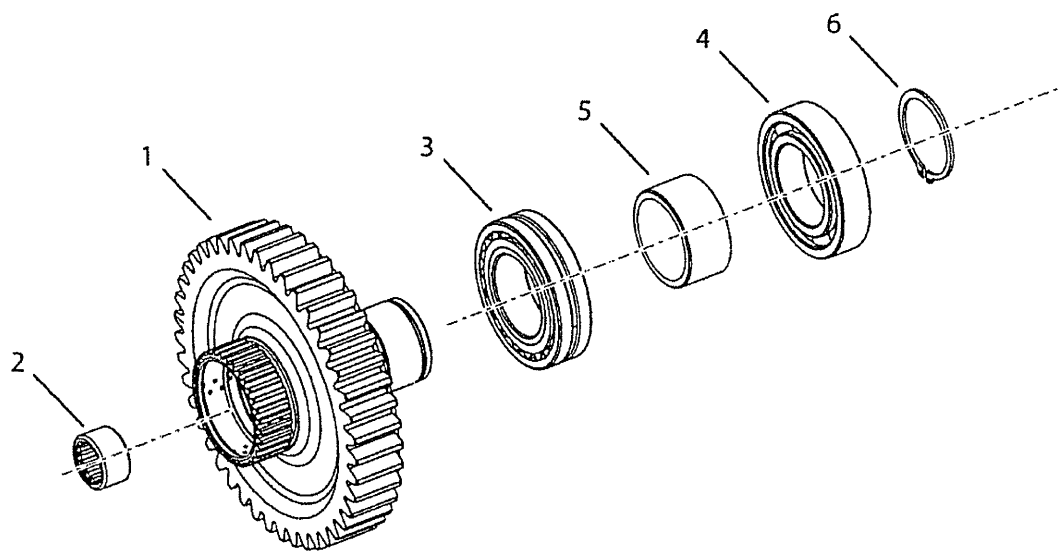
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L98229	SHAFT IDLER & PILOT	1	06	L99031	CAPSCREW	1
02	L98228	RING/SNAP	1	07	L99032	WASHER	1
03	L98231	BEARING/REV IDLER GEAR	1	09	106220	GEAR, REVERSE IDLER (28T) ...	1
04	L98230	WASHER/THRUST	1				
05	L98232	END PLATE	1				



Telescopic Handler

Transmission

Clutch Gear - 3rd Gear - (RS10 and RS12 Models)



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106237	GEAR, 3RD CLUTCH (43T)	1	04	106239	BEARING.	1
02	L98263	BEARING, NEEDLE	1	05	106240	SPACER, BEARING	1
03	106238	SPHERICAL BEARING.	1	06	L98266	SNAP RING.	1

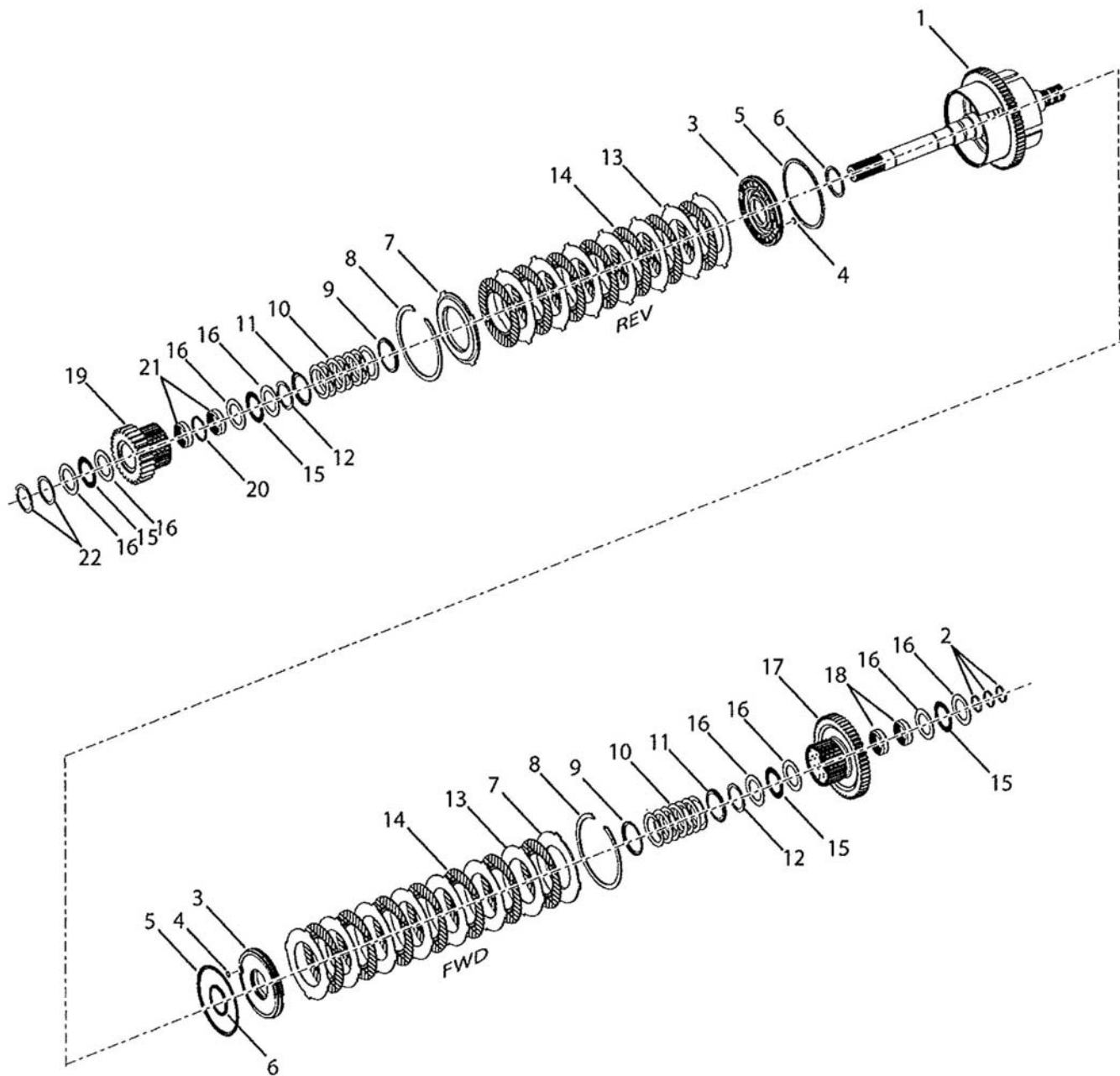
RS10 and RS12 Models Only



Transmission

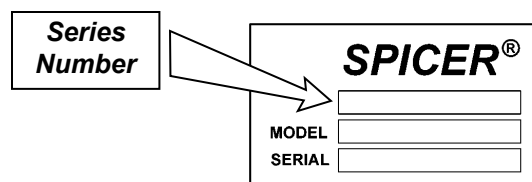
RS Series

Forward and Reverse Shaft - (RS10 and RS12 Models)



**Telescopic Handler****Transmission****Forward and Reverse Shaft - (RS10 and RS12 Models)**

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106221	TURBO SHFT DRUM & PLUG 1		14		DISC, INNER. 14	
	50220013	Series Number: 863/54				(Seven discs in forward clutch and seven discs in reverse clutch)	
02	L98250	RING, PISTON. 3			L98239	Series Number: 863/54	
03	L99278	CLUTCH PISTON 2			50220014	Series Number: 863/57	
		(includes items 4 -6)		15	L98236	BEARING, THRUST 4	
04	NSS	SCREEN 1		16	L98235	WASHER, THRUST 8	
05	L98246	SEAL 1		17		CLUTCH FWD GEAR & BEARING. 1	
06	L98247	SEAL 1				(includes item 18)	
07	106223	PLATE, END 2			106225	Series Number: 863/54	
08	L98237	INTERNAL SNAP RING 2			50220015	Series Number: 863/57	
09	L98244	PLATE, CLUTCH PISTON WEAR. . 2		18	L98253	BEARING, NEEDLE 2	
10	L500416	DISC SPRING (7 springs). 2		19	106226	REVERSE GEAR ASSY. 1	
11	L98242	RETAINER, SNAP RING. 2				(includes items 20 and 21)	
12	L98241	SNAP RING, RETAINER. 2		20	106227	SPACER 1	
13	106224	DISC, OUTER 14		21	L98253	BEARING, NEEDLE 2	
		(Seven discs in forward clutch and seven discs in reverse clutch)		22	106195	SNAP RING. 2	



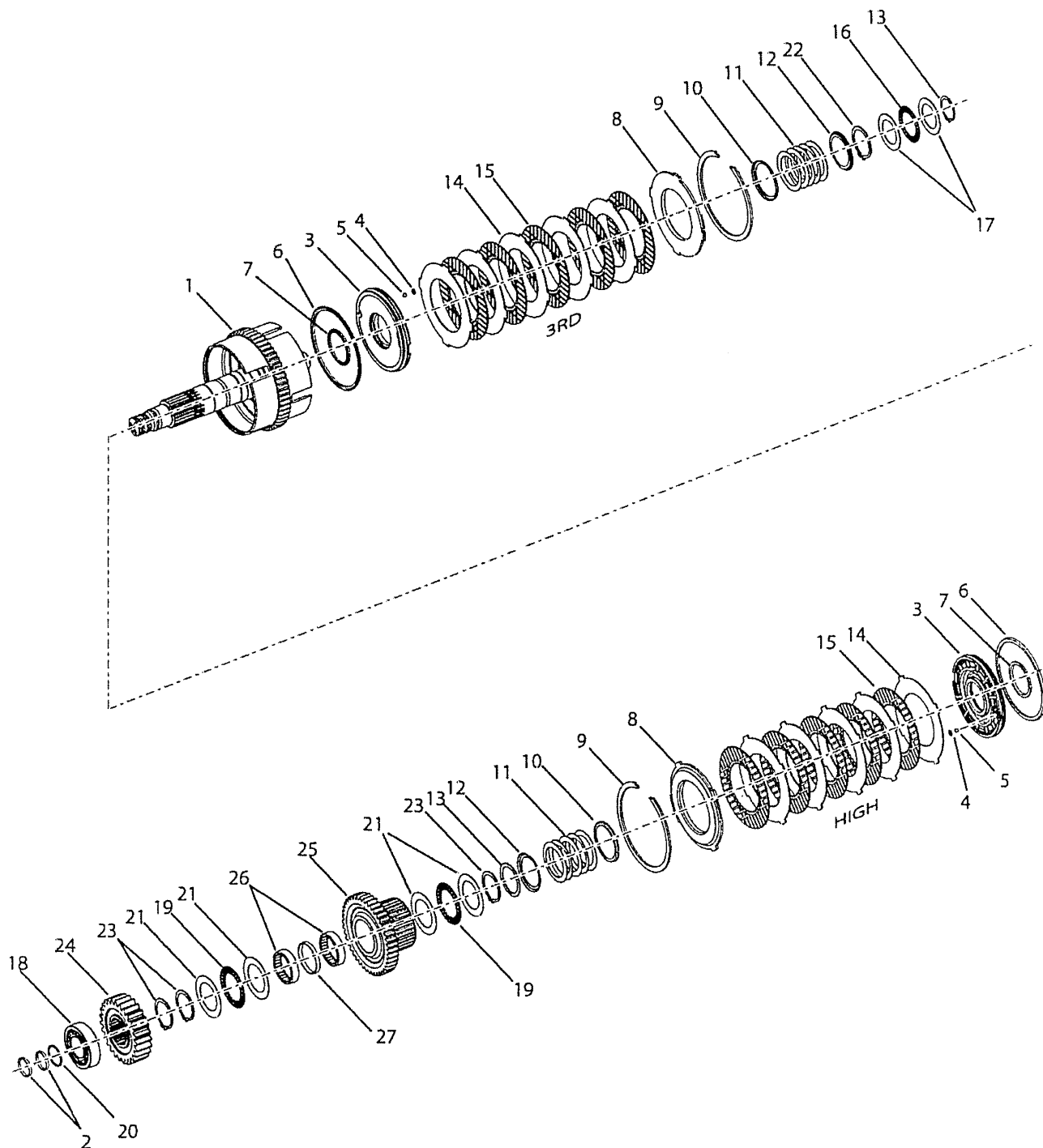
The model/serial number plate is located on the front of transmission case—see page 76.



Transmission

RS Series

High and Third Gear Shaft - (RS10 and RS12 Models)

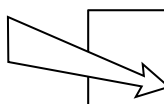


RS10 and RS12 Models Only

**Telescopic Handler****Transmission****High and Third Gear Shaft - (RS10 and RS12 Models)**

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106228	HIGH AND THIRD SHAFT	1	15		DISC, INNER.	10
02	L98250	RING, PISTON.	2			(Five inner discs in high and five inner discs in third)	
03	L99279	CLUTCH PISTON	2				
		(includes items 4-7)			L98239	Series Number: 863/54	
04	NSS	SEAT, BALL.	1		50220014	Series Number: 863/57	
05	NSS	BALL	1	16	L98236	BEARING, THRUST	1
06	L98246	SEAL	1	17	L98235	WASHER, THRUST	2
07	L98247	SEAL	1	18	106230	BEARING, ROLLER	1
08	106223	PLATE, END	2	19	L500413	BEARING, THRUST	2
09	L98237	INTERNAL SNAP RING	2	20	106231	RING, PISTON.	1
10	L98244	PLATE, CLUTCH PISTON	2	21	L500414	WASHER, CLUTCH GEAR.	4
11	L98961	DISC SPRING	2	22	106232	SNAP RING.	1
		(includes 5 disc-springs)		23	L99696	SNAP RING, EXTERNAL	3
12	L98242	RETAINER, SNAP RING.	2	24	106233	GEAR, FIRST DRIVE (27T)	1
13	L98241	SNAP RING, RETAINER	2	25	106234	HIGH GEAR	1
14	106224	DISC, OUTER	10			(includes items 26 and 27)	
		(Five outer discs in high and five outer discs in third)		26	106235	BEARING, NEEDLE	2
				27	106236	SPACER	1

Series Number



SPICER®
MODEL
SERIAL

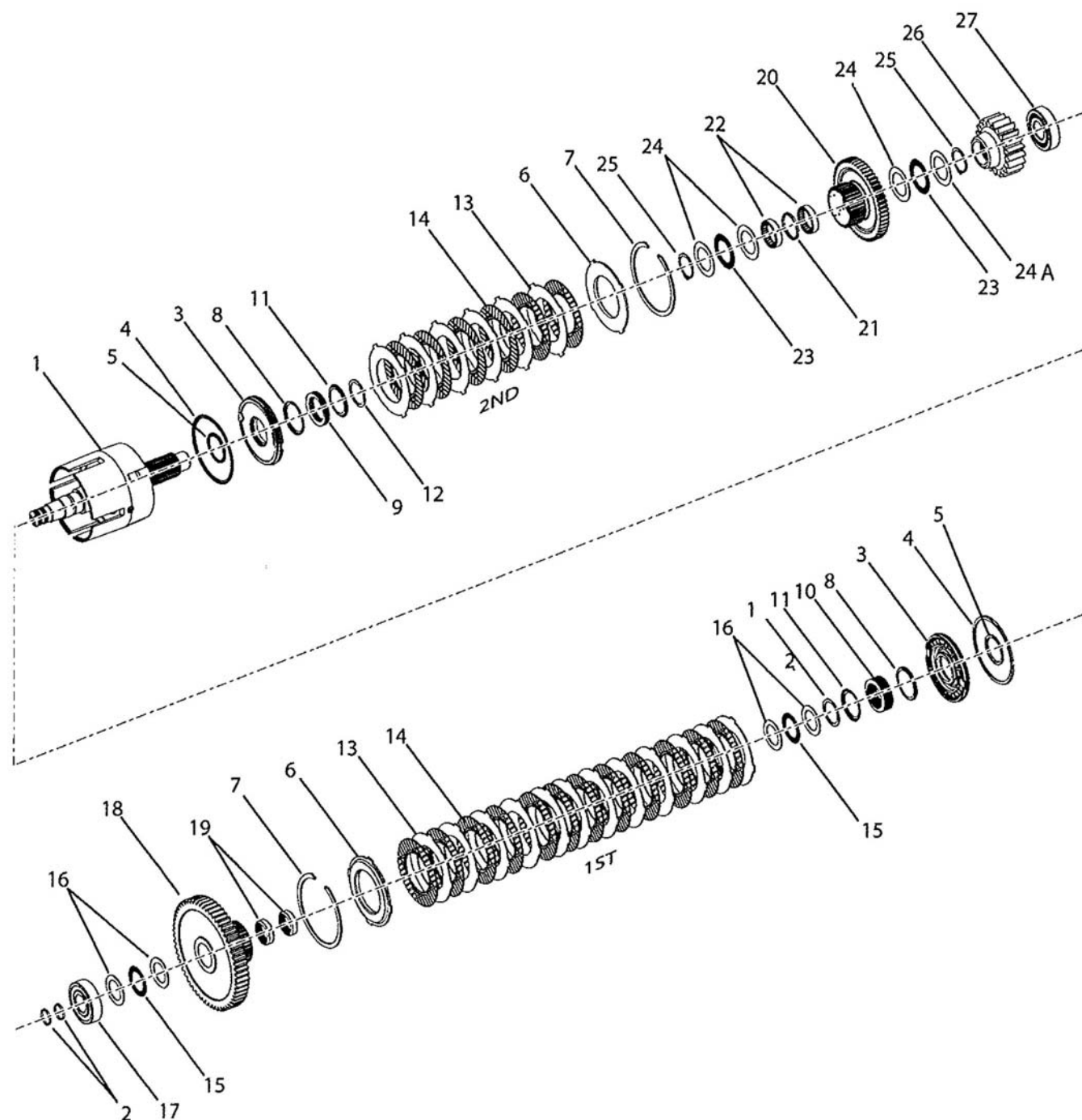
The model/serial number plate is located on the front of transmission case—see page 76.



Transmission

RS Series

First and Second Gear - (RS10 and RS12 Models)



RS10 and RS12 Models Only

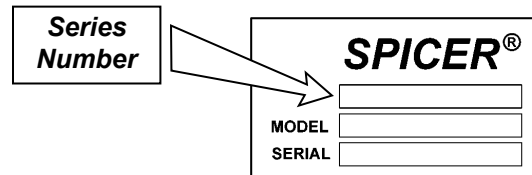


Telescopic Handler

Transmission

First and Second Gear - (RS10 and RS12 Models)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106242	1ST-2ND SHAFT	1	17	L500273	BEARING AND SEAL	1
	50220016	Series Number: 863/54		18	106244	1ST CLUTCH GEAR	1
02	L98250	Series Number: 863/57				(includes item 18)	
03	L99038	RING, PISTON	2	19	L98253	BEARING , NEEDLE	1
04	L98246	CLUTCH PISTON	2	20	106245	2ND CLUTCH GEAR.	1
05	L98247	SEAL, CLUTCH PISTON OUTER. .	1			(includes items 21 and 22)	
06	106223	SEAL, CLUTCH PISTON INNER . .	1	21	106246	SPACER	1
07	L98237	PLATE, END	2	22	106235	BEARING, NEEDLE	2
08	L98244	INTERNAL SNAP RING	2	23	L500413	BEARING, THRUST	2
09	L98244	PLATE, CLUTCH PISTON	2	24	L500414	WASHER, CLUTCH GEAR	
10	L98961	Series Number: 863/54	1			Series Number: 863/54	4
11	106243	Series Number: 863/57	1			Series Number: 863/57	3
12	L98242	DISC SPRING	1	24A	50220017	WASHER, CLUTCH GEAR	
13	L98241	RETAINER, SNAP RING.	1			Series Number: 863/57	1
14	106224	SNAP RING, RETAINER	1	25	L99696	SNAP RING EXTERNAL.	2
		DISC, OUTER	18	26		GEAR, 3RD DRIVEN (21T).	1
		DISC, INNER.	18			Series Number: 863/54	
	L98239	Series Number: 863/54			106247	Series Number: 863/54	
	50220014	Series Number: 863/57			50220018	Series Number: 863/57	
15	L98236	BEARING, THRUST	2	27	L98275	BEARING, ROLLER	1
16	L98235	WASHER, THRUST	2				



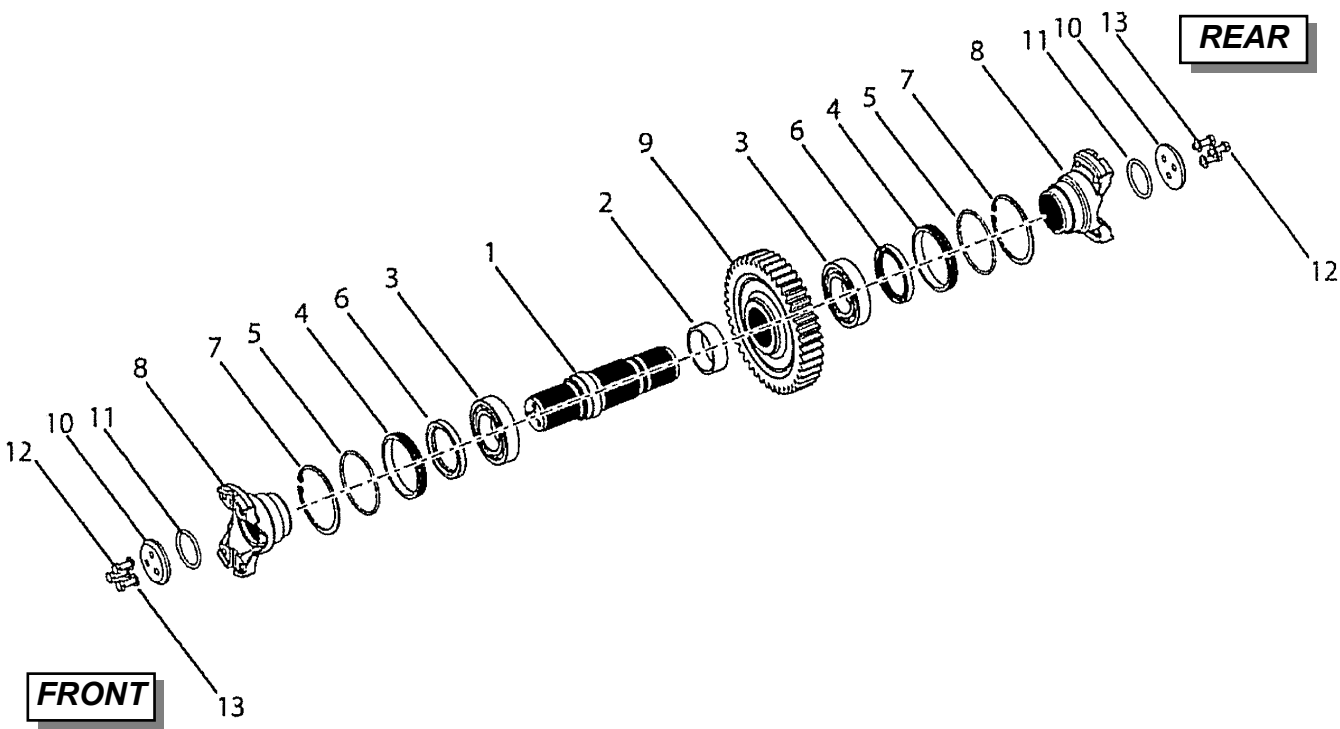
The model/serial number plate is located on the front of transmission case—see page 76.



Transmission

RS Series

Output Shaft - (RS10 and RS12 Models)



RS10 and RS12 Models Only

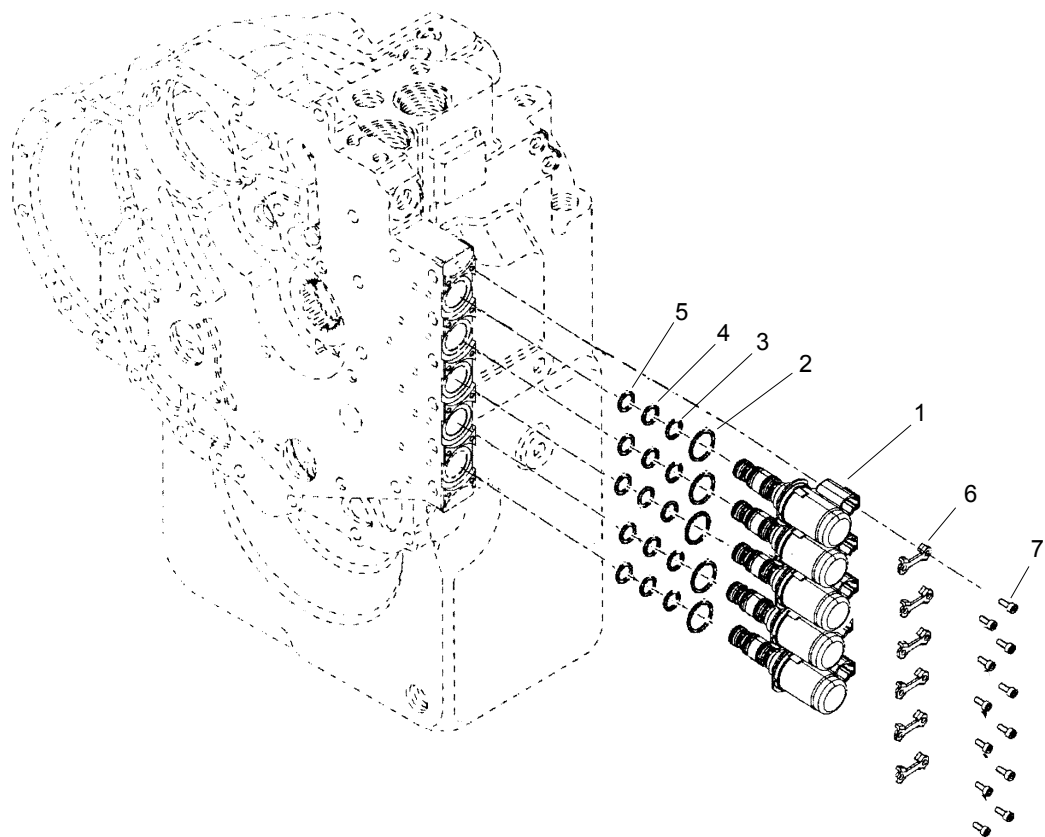
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106248	SHAFT, OUTPUT	1	08	106250	FLANGE, OUTPUT SHAFT.....	2
02	106249	SPACER, GEAR TO SHAFT.....	1	09	106251	GEAR, OUTPUT SHAFT (43T)....	1
03	106239	BEARING.....	2	10	106252	PLATE, OUTPUT FLANGE.....	2
04	L98281	SLEEVE, OIL SEAL.....	2	11	106253	O-RING OUTPUT SHAFT.....	2
05	L98268	O-RING	2	12	106254	BOLT	6
06	L96053	SEAL, OIL	2	13	106255	WASHER.....	6
07	106180	SNAP RING.....	2				



Telescopic Handler

Transmission

Electronic Controllers - (RS10 and RS12 Models)



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102950	SOLENOID, W / DEUTSCH CON. . 5 <i>(includes items 2 thru 5)</i>		04	102953	O-RING, 14.1 X 1.60MM 5 <i>(included with item 1)</i>	
02	102951	O-RING, 21.5 X 1.5MM 5 <i>(included with item 1)</i>		05	102954	O-RING, 12.1 X 1.60MM 5 <i>(included with item 1)</i>	
03	102952	O-RING, 15.1 X 1.60MM 5 <i>(included with item 1)</i>		06	102957	CLAMP, SOLENOID 6	
				07	106256	BOLT, FLANGED 12	

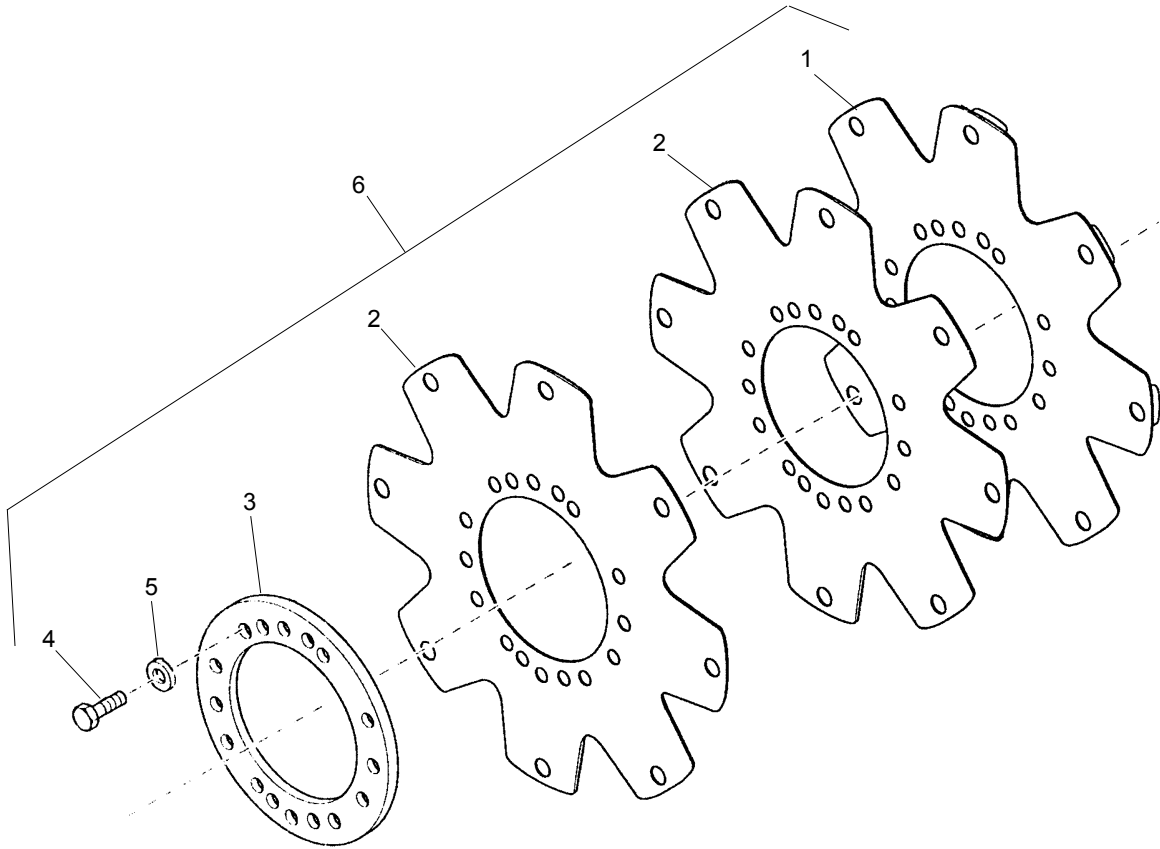
RS10 and RS12 Models Only



Transmission

RS Series

Drive Plate - (RS10 and RS12 Models)



RS10 and RS12 Models Only

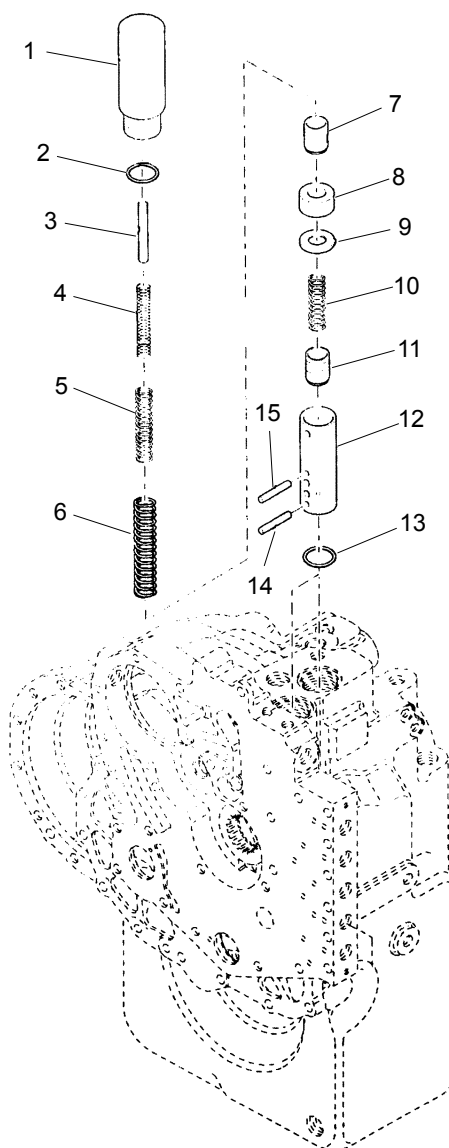
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	NSS	DRIVE PLATE ASSEMBLY 1		04	L99785	SCREW, DRIVE PLATE MNTG. . . . 6	
		(included in item 6)		05	L99030	LOCKWASHER/DRIVEPLATE 6	
02	NSS	DRIVE PLATE 2		06	L98317	KIT, DRIVE PLATE ASSEMBLY . . . 1	
		(included in item 6)				(includes items 1 thru 5)	
03	L98316	RING, DRIVE PLATE BACKING . . . 1					



Telescopic Handler

Transmission

Modulation Valve - (RS10 and RS12 Models)



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L98291	HOUSING MODULATOR VALVE . . .	2	09	L98301	SPACER	2
02	L98292	O-RING	2	10	L98300	SPRING	2
03	L98293	PIN STOP	2	11	L98958	SPOOL	2
04	L98294	SPRING INNER.	2	12	L98298	SLEEVE-MODULATION VALVE . . .	2
05	L98295	SPRING MIDDLE	2	13	L98297	O-RING, SLEEVE	2
06	L98304	SPRING OUTER.	2	14	L98957	PIN-LOWER	2
07	L98303	SPOOL ACCUMULATOR	2	15	L98956	PIN-UPPER	2
08	L98302	RETAINER.	2				

RS10 and RS12 Models Only

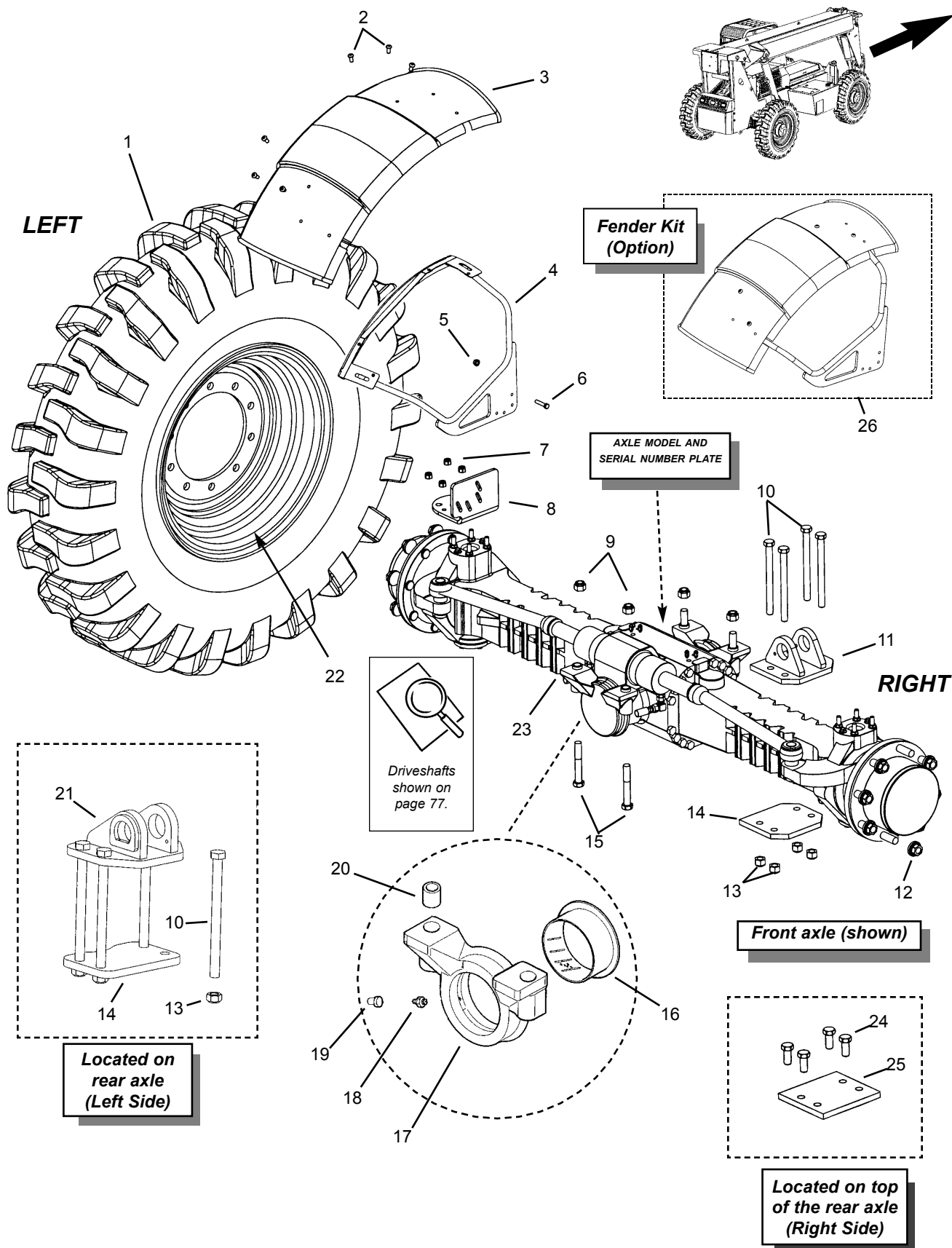


Axles

RS6-42/RS8-42/RS8-44

Mounts, Tires, and Fenders - (RS6 and RS8 Models Only)

RS6 and RS8 Models Only





Telescopic Handler

Axles

Mounts, Tires, and Fenders - (RS6 and RS8 Models Only)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		TIRE.....	4	20	L500542	REDUCTION BUSING	4
	L47270	13.00X24		21	210168	STABILIZER MOUNT (<i>rear axle</i>)..	1
	L71758	13.00X24 (<i>Rock</i>)		22	L69114	WHEEL RIM 24X9.00	4
01 ^a	210133	13X24 SOLID TIRE/WHEEL SET ..	4	23 ^b		AXLE ASSEMBLY, 212 HY	
02	L50253	3/8"-16 BUTTON HD BOLT	6		102122	FRONT (<i>with internal park brake</i>)..	1
03	L99951	FENDER	1		102123	REAR.	1
04	105202	FENDER MOUNT (LF/RR)	1	24	656035	M16-20x20 8.8 BOLT	4
05	090666	3/8"-16 FLANGE LOCK NUT	4	25	210167	SPACER, AXLE STOP	1
06	L50836	3/8"-16X1-3/4" BOLT	4	26 ^c	820530	FENDER KIT (<i>option</i>)	1
07	102587	NUT	4				
08	102569	MOUNT (LF/RR) (<i>LF is standard</i>) ..	1			-- ITEMS NOT SHOWN --	
	102570	MOUNT (LR/RF - <i>optional</i>)	AR	--	L63222	VALVE STEM	AR
09	L50201	M20-2.5 CLASS 10 LOCK NUT ...	4				
10	L50712	3/4"-10X9" GR8 BOLT	8				
11	210558	FRAME LEVEL MNT (<i>front axle</i>)..	1	a		When ordering, specify right or left side.	
12	L69734	M22-1.5 WHEEL NUT	AR				
13	L50084	3/4"-10 GR8 LOCK NUT	8	b		Axle only; does not include any of the other items shown in the illustration.	
14	210572	PLATE, MOUNT	2				
15	651543	M20-2.50X130 C10.9 BOLT	4	c		Includes three fender assemblies, mounts, and hardware to install two fenders on the rear axle and one fender on the front axle; the machines comes factory equipped with a fender on the left-side front axle. Must be ordered through the Whole Goods Department.	
16	L500543	THRUST BUSHING	2				
17	L500544	SUPPORT	2				
18	L98355	GREASE FITTING	2				
19	L500496	PLUG	2				

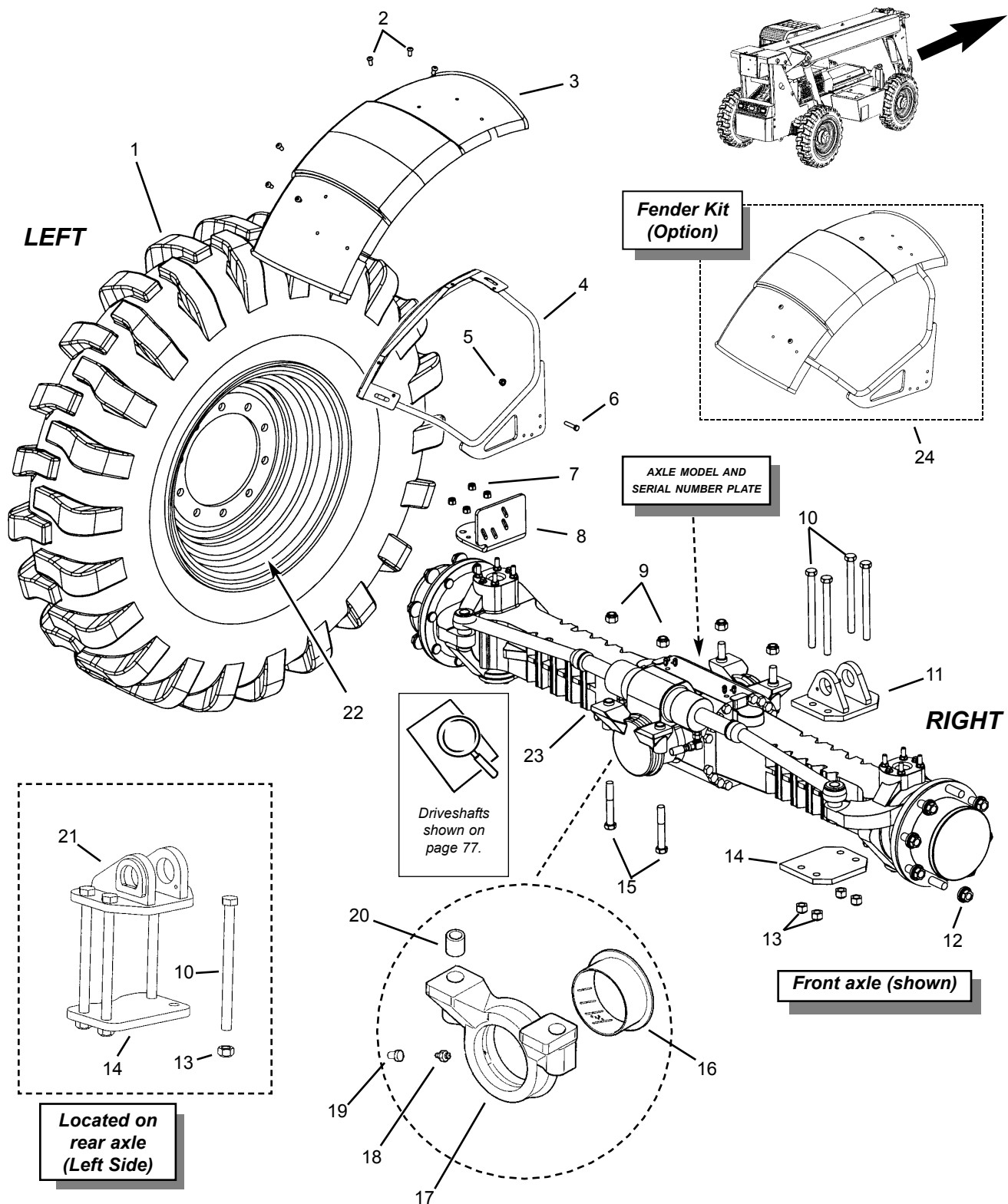
RS6 and RS8 Models Only



Axles

RS10-44 / RS10-55 / RS12-42

Mounts, Tires, and Fenders - (RS10 and RS12 Models Only)



Telescopic Handler

Axles

Mounts, Tires, and Fenders - (RS10 and RS12 Models Only)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a		14.00X24 TIRE SET		20	L500542	REDUCTION BUSING	4
	L60198	TIRE/14.00X24TG 12PLY	4	21	210198	STABILIZER MOUNT (<i>rear axle</i>)	1
	L69114	WHEEL/24 X 9.00 GR	4	22	L69114	WHEEL RIM 24X9.00	4
01 ^a	L70646	14.00X24 TIRE/WHEEL	4	23 ^b		AXLE ASSEMBLY, 223	1
01 ^a	210152	13X24 SOLID TIRE/WHEEL SET	4		210093	FRONT (<i>with internal park brake</i>)	1
02	L50253	3/8"-16 BUTTON HD BOLT	6		210094	REAR	1
03	L99951	FENDER	1	24 ^c	820530	FENDER KIT (<i>option</i>)	1
04	105202	FENDER MOUNT (LF/RR)	1				
05	090666	3/8"-16 FLANGE LOCK NUT	4			-- ITEMS NOT SHOWN --	
06	L50836	3/8"-16X1-3/4" BOLT	4	--	L63222	VALVE STEM	AR
07	102587	NUT	4				
08	102569	MOUNT (LF/RR) (<i>LF is standard</i>)	1				
	102570	MOUNT (LR/RF - <i>optional</i>)	AR	a		<i>When ordering, specify right or left side.</i>	
09	102781	NUT, 1"-8 LOCK CLASS C	8				
10	651567	3/4"-10X10" GR8 BOLT	8	b		<i>Axle only; does not include any of the other items shown in the illustration.</i>	
11	210173	FRAME LEVEL MNT (<i>front axle</i>)	1				
12	L69734	M22-1.5 WHEEL NUT	AR				
13	L50084	3/4"-10 GR8 LOCK NUT	8	c		<i>Includes three fender assemblies, mounts, and hardware to install two fenders on the rear axle and one fender on the front axle; the machines comes factory equipped with a fender on the left-side front axle. Must be ordered through the Whole Goods Department.</i>	
14	210421	PLATE, MOUNT	2				
15	102779	BOLT, 1"-8 X 5-1/2" GR8	8				
16	L500543	THRUST BUSHING	2				
17	L500544	SUPPORT	2				
18	L98355	GREASE FITTING	2				
19	L500496	PLUG	2				

a When ordering, specify right or left side.

b Axle only; does not include any of the other items shown in the illustration.

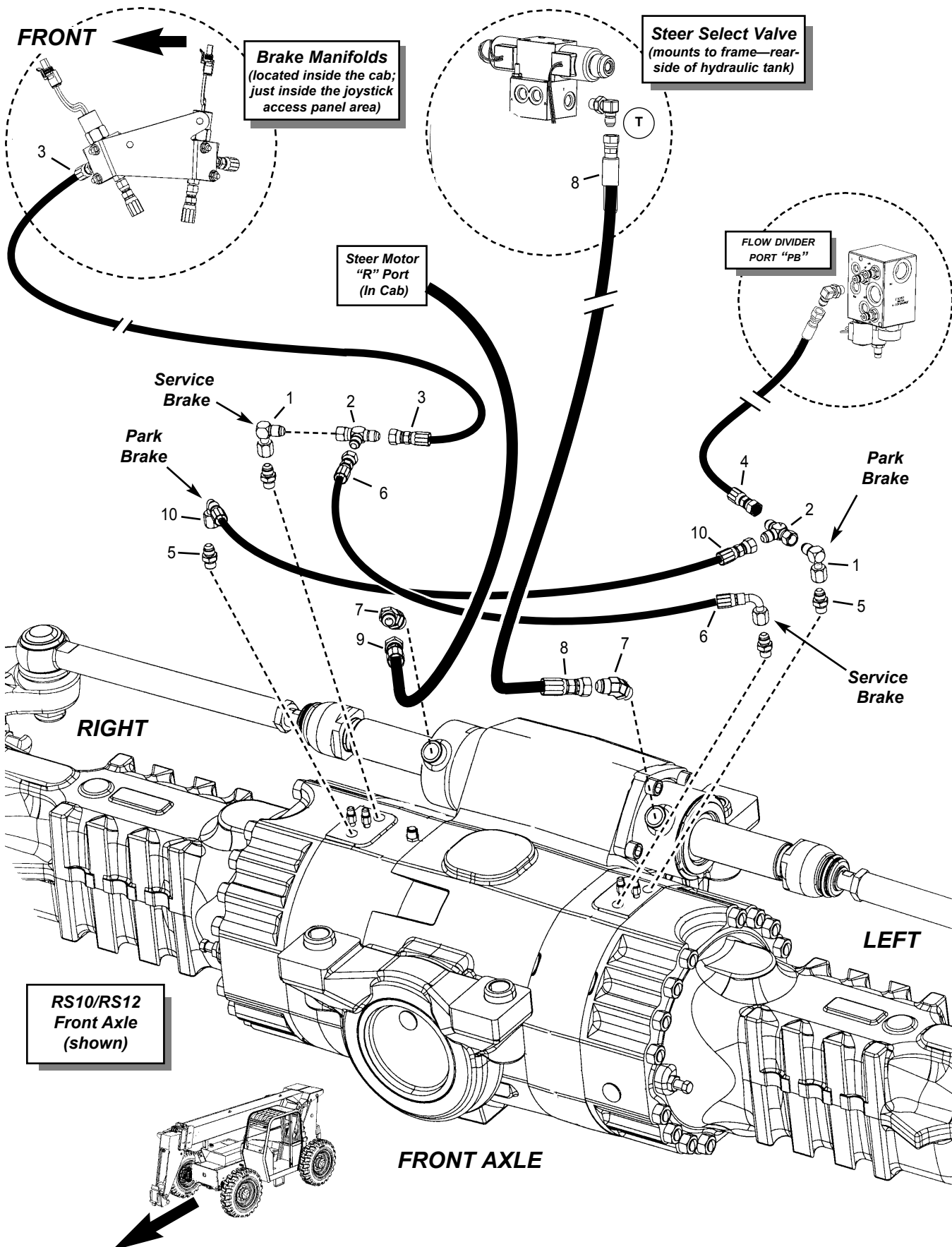
c Includes three fender assemblies, mounts, and hardware to install two fenders on the rear axle and one fender on the front axle; the machine comes factory equipped with a fender on the left-side front axle. Must be ordered through the Whole Goods Department.



Axles

RS Series

Front Axle - Brake and Steering Circuit





Telescopic Handler

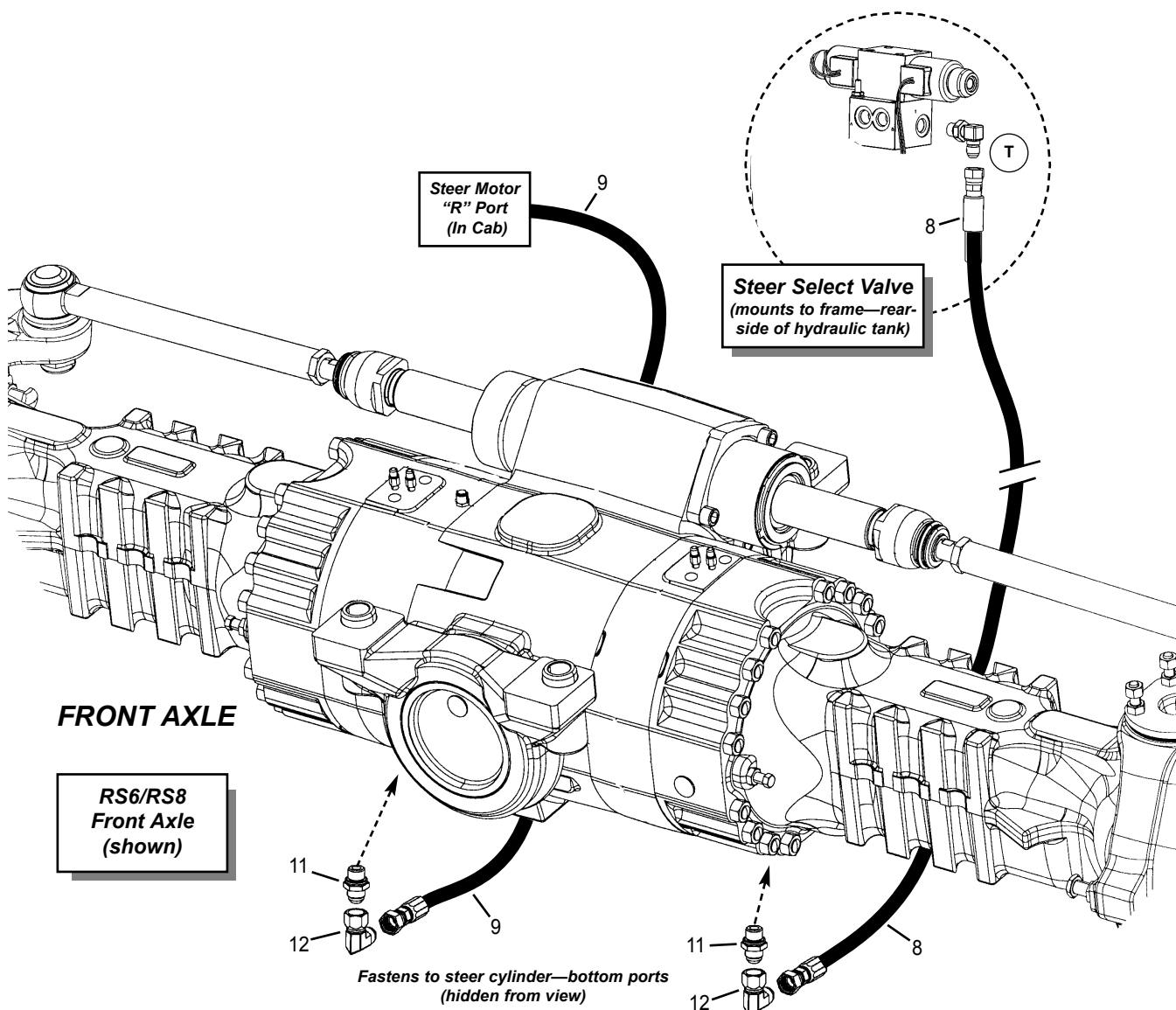
Axles

Front Axle - Brake and Steering Circuit

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	091039	ADAP., -6JICFS -6JICM 90°	2	10	L69903	HOSE, -4 A6/DS6 17"	1
02	072806	ADAP., -6 SWIVEL RUN TEE	2	11 ^x	100011	ADAP., M18ORM 8JICM STR	2
03 ^a	102842	HOSE, -4 A4/A6 66"	1	12 ^x	088442	ADAP., 08JICFS 08JICM90°	2
04	102839	HOSE, -6 A6/A6 57"	1				
05	L66139	ADAP., M14X1.5 -6-JICM	4				
06	L69903	HOSE, -4 A6/DS6 17"	1				
07 ^y	076880	ADAP., -8ORM -8JICM 45°	2				
08		HOSE, -6 A6/A8	1				
	102848	(Note x)—48" long					
	L69933	(Note y)—56" long					
09		HOSE, -6 A8/DS8	1				
	102847	(Note x)—82" long					
	210460	(Note y)—98" long					



NOTE: The brake manifold and brake hoses—shown on facing page—are used on all models; however, the steering hoses and steering hose fittings are different between the various models.

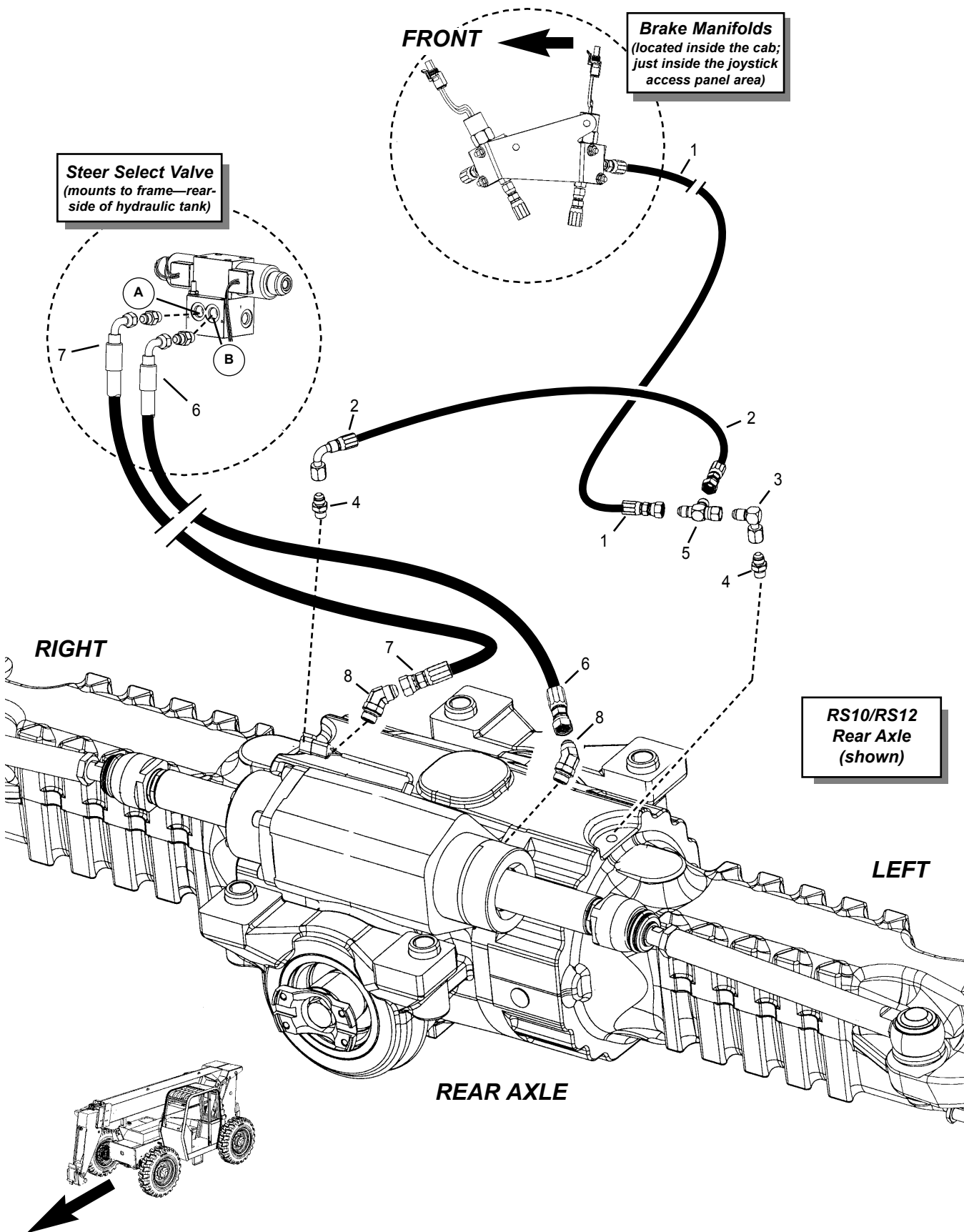




Axles

RS Series

Rear Axle - Brake and Steering Circuit





Telescopic Handler

Axles

Rear Axle - Brake and Steering Circuit

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	102840	HOSE, -4 A4/A6 90"	1	07	L69936	HOSE, -6 A6/A8 100"	1
02	L69904	HOSE, -4 A6/DS6 20"	1	08 ^y	076880	ADAP., -8ORM -8JICM 45°	2
03	091039	ADAP., -6JICFS -6JICM 90°	1	09 ^x	100011	ADAP., M18ORM 8JICM STR.	2
04	L66139	ADAP., M14X1.5 -6-JICM	2	10 ^x	088442	ADAP., 08JICFS 08JICM90°	2
05	072806	ADAP., -6 SWIVEL RUN TEE	1				
06	L69936	HOSE, -6 A6/A8 100"	1				

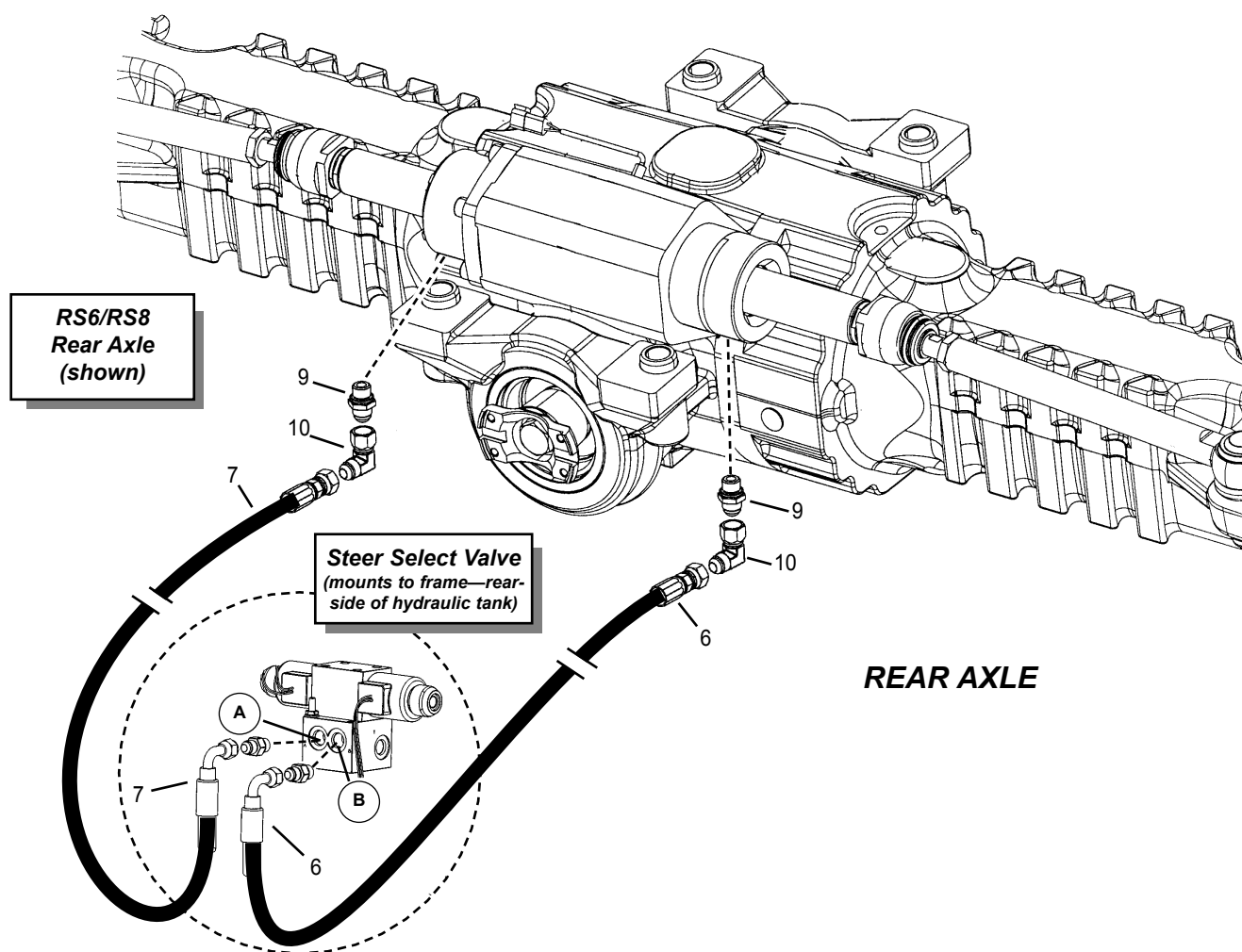
a Hose attaches to the front brake manifold, located in the cab, just inside of the joystick access panel.

x Only RS6-42 and RS8-42/44

y Only RS10-44/55 and RS12-42



NOTE: The brake manifold and brake hoses—shown on facing page—are used on all models; however, the steering hoses and steering hose fittings are different between the various models.



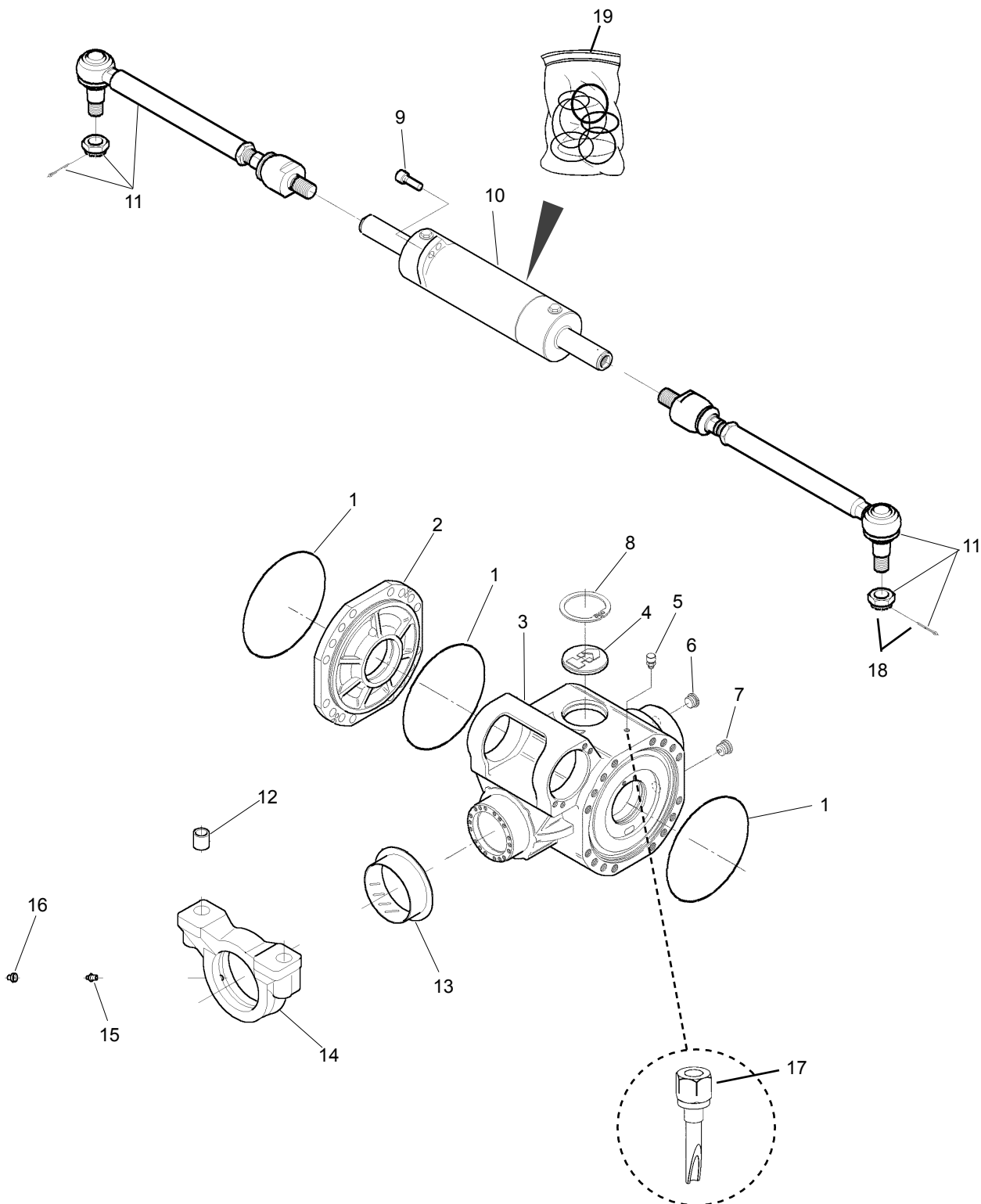


Axles

RS Series

Tie Rods, Steer Cylinder, and Center Housing - Front and Rear

(RS6 and RS8 Models)



RS6 and RS8 Models Only

**Telescopic Handler****Axles*****Tie Rods, Steer Cylinder, and Center Housing - Front and Rear***

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	104485	O-RING	3	12	L500542	REDUCTION BUSHING	4
02		INTERMEDIATE COVER	1	13	L500543	THRUST BUSHING.....	2
	50220246	Front Axle SN: P-ITA-771550 and up		14	L500544	SUPPORT	2
	L500451	Front Axle SN: P-ITA-771549 and before		15	L98355	GREASE FITTING.....	2
	L500451	Rear Axle		16	L500496	PLUG	2
03	102573	HOUSING	1	17	103788	BREATHER TUBE.....	1
04	104518	PLUG.....	1	18	104431	NUT AND COTTER PIN KIT AR	
05	50220030	VENT.....	1			(included with item # 11)	
06	102575	PLUG.....	1	19		SEAL KIT, STEER CYLINDER 2	
07	102576	MAGNETIC PLUG.....	1			(one for the front; one for the rear)	
08	L98373	SNAP RING	1		50220267	Note a	
09	L500539	CYLINDER BOLT	4		103118	Note b	
10		CYLINDER, STEER	1				
	50220264	Note a		a		Front Axle SN R-ITA-776153 and up	
	102577	Note b				Rear Axle SN R-ITA-775513 and up	
11	102578	ARTICULATED TIE ROD	2	b		Front Axle SN R-ITA-776152 and before	
						Rear Axle SN R-ITA-775512 and before	

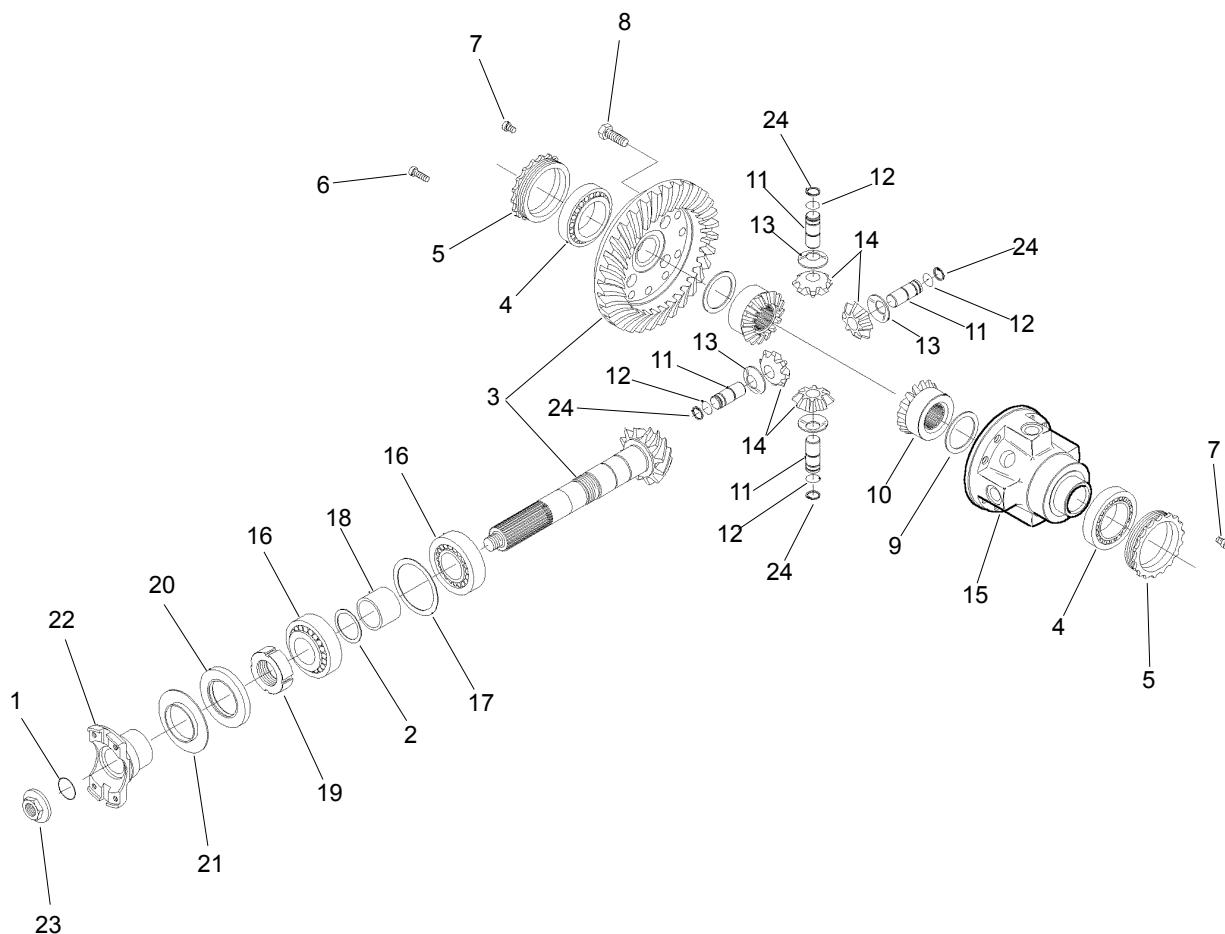
**NOTE:** Quantities shown are for one axle.



Axles

RS Series

Differential - Front and Rear - (RS6 and RS8 Models)



RS6 and RS8 Models Only



Telescopic Handler

Axles

Differential - Front and Rear - (RS6 and RS8 Models)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L500457	O-RING	1	12	L500471	SNAP RING	4
02	L500459	SHIM	1	13	L500472	FRICTION WASHER	4
	L500460	SHIM	1	14	L500473	DIFFERENTIAL PINION	4
	L500461	SHIM	1	15	L500474	DIFFERENTIAL CARRIER	1
	L98414	SHIM	1	16	L500771	TAPER ROLLER BEARING	2
	50220247	SHIM	1	17	L98404	SHIM	1
	50220248	SHIM	1		L98406	SHIM	1
03		BEVEL GEAR SET	1		L500476	SHIM	1
	102579	(Front Axle)	1		L500477	SHIM	1
	102580	(Rear Axle)	1	18	L500478	SPACER	1
04	L98380	TAPER ROLLER BEARING	2	19	L98396	RING NUT	1
05	L500464	RING NUT	2	20		SEAL	1
06	L500465	CYLINDER BOLT	4		L98395	Front Axle SN: P-ITA-771549 and before	
07	L500466	CYLINDER BOLT	2			Rear Axle SN: P-ITA-771563 and before	
08	L500467	BOLT	12		50220249	Front Axle SN: P-ITA-771550 and up	
09	L500468	FRICTION WASHER	2			Rear Axle SN: P-ITA-771564 and up	
10	L500469	DIFFERENTIAL SIDE GEAR	2	21	L98394	COVER PLATE	1
11		PIN	AR	22	102863	FLANGE	1
		(includes item #12)		23	L500480	NUT	1
	L500470	(front axle)	2	24	L500481	SNAP RING	4
	103402	(rear axle)	2				



NOTE: Quantities shown are for one axle.



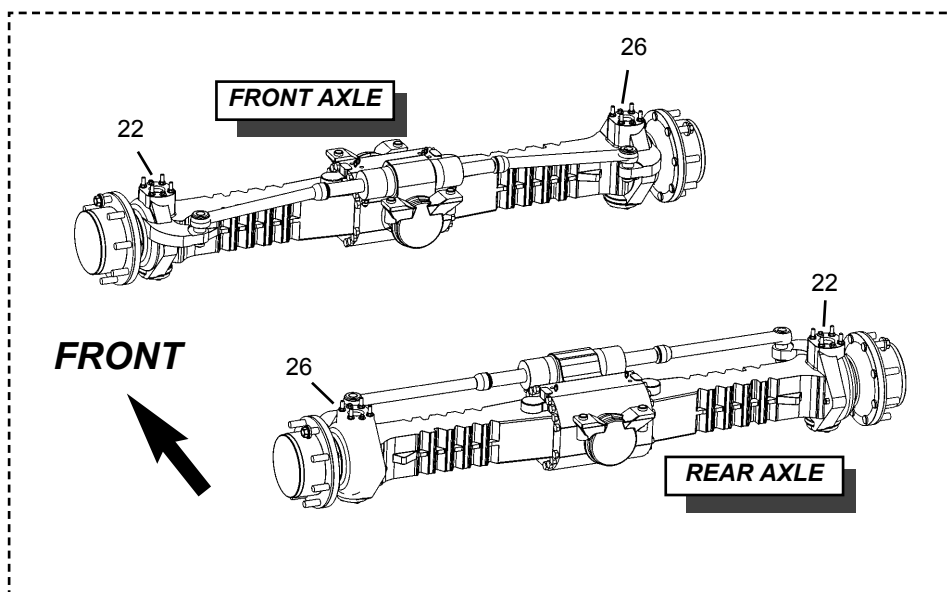
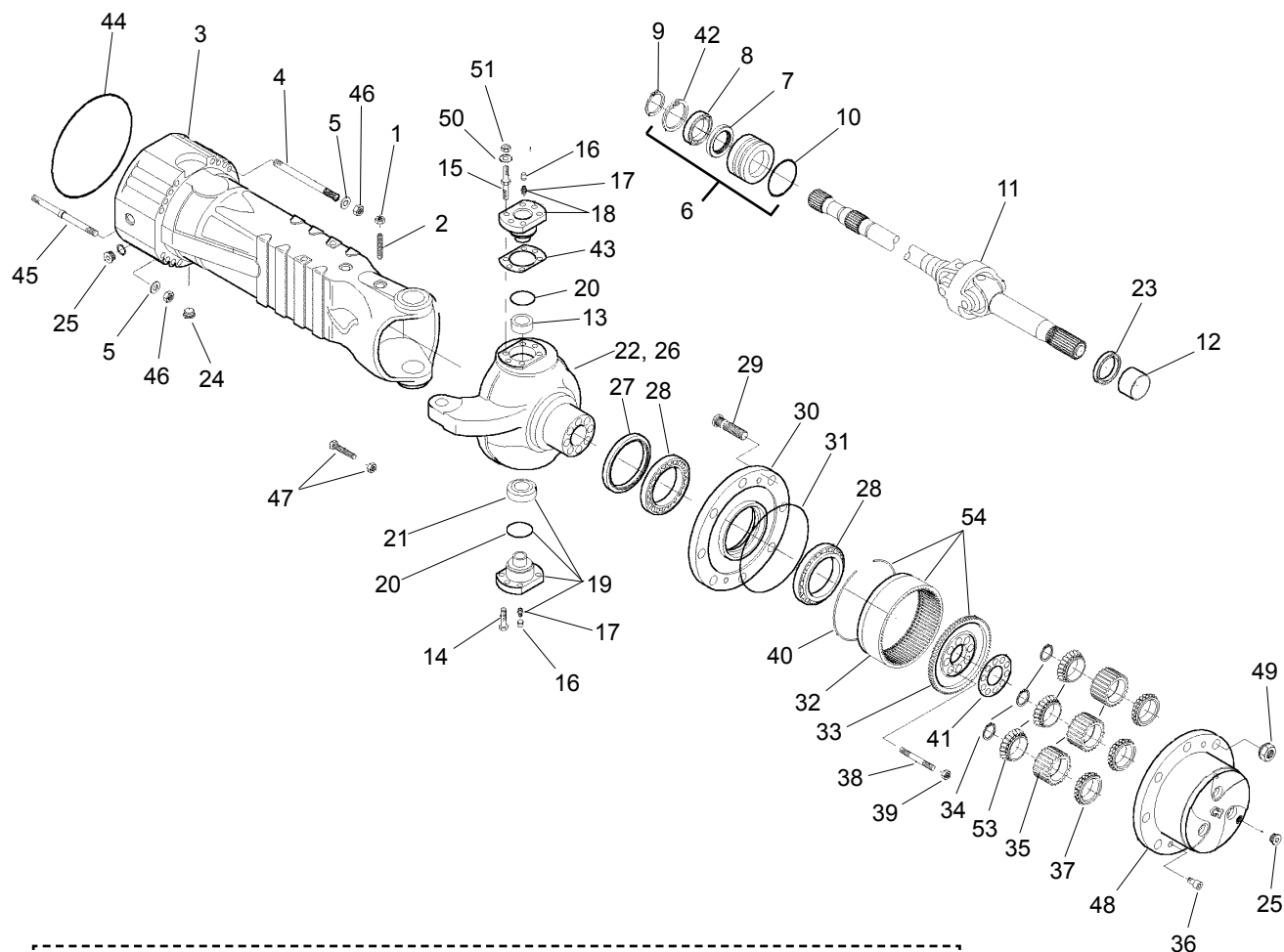
RS6 and RS8 Models Only



Axles

RS Series

Outer End - Front and Rear - (RS6 and RS8 Models)



RS6 and RS8 Models Only



Telescopic Handler

Axles

Outer End - Front and Rear - (RS6 and RS8 Models)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
NOTE: All quantities are per axle				28	102600	BEARING.....	4
01	L500483	NUT.....	2	29	102601	WHEEL STUD.....	20
02	102581	BOLT.....	2	30	102602	WHEEL HUB.....	2
03		AXLE CASE.....	2	31	102603	O-RING.....	2
	102582	Front Axle SN		32		RING GEAR.....	2
	50220252	Rear Axle SN: P-ITA-771564 and up			102604	Front Axle	
	102582	Rear Axle SN:P-ITA-771563 and before			50220057	Rear Axle SN: P-ITA-771564 and up	
04		STUD			102604	Rear Axle SN: P-ITA-771563 and before	
	102584	Front Axle SN.....	24	33	102605	RING GEAR SUPPORT.....	2
	102584	Rear Axle SN:P-ITA-771563 and before	24	34	102606	SNAP RING.....	6
	50220253	Rear Axle SN: P-ITA-771564 and up ..	32	35	102607	DIFFERENTIAL PINION.....	6
05	L500487	WASHER.....	32	36	104504	COUNTERSUNK BOLT.....	4
06	L500488	REDUCTION BUSHING.....	2	37	102900	BEARING.....	6
		(incl. 7, 8, 10 and 42)		38	L500517	STUD.....	20
07	L500489	SEAL.....	2	39	L500518	NUT.....	20
08	L98371	BALL BEARING.....	2	40	102608	SNAP RING.....	2
09	L98372	SNAP RING.....	2	41	102609	LOCKING PLATE.....	2
10	L500490	O-RING.....	2	42	L98373	SNAP RING.....	2
11		SHAFT ASSEMBLY.....	2	43	102610	SHIM.....	2
	50220751	Front Axle SN: S-ITA-776599 and up			102611	SHIM.....	2
	102586	Front Axle SN: S-ITA-776598 and before			102612	SHIM.....	2
	50220751	Rear Axle SN: S-ITA-776265 and up		44	104485	O-RING.....	2
	50220254	Rear Axle SN: P-ITA-771564 through S-ITA-776264		45	102614	STUD	
	102586	Rear Axle SN: P-ITA-771563 and before				Front Axle.....	8
12	102588	THRUST BUSHING.....	2			Rear Axle SN: P-ITA-771564 and up ..	0
13	102589	BUSHING.....	2	46	102615	Rear Axle SN: P-ITA-771563 and before	8
14	L500467	BOLT.....	12			NUT.....	32
15	50220056	STUD.....	8	47	104546	STEERING ADJUST BOLT ASY...	4
16	L500496	PLUG.....	4	48	102616	PLANET GEAR CARRIER.....	2
17	L98355	GREASE FITTING.....	4	49	L69734	WHEEL NUT.....	20
18	102590	PIVOT PIN.....	2	50	102583	WASHER.....	8
19	102591	PIVOT PIN.....	2	51	102587	NUT.....	8
20	102592	DUST EXCLUDER.....	4	53	102899	BEARING.....	6
21	102593	BEARING.....	2	54	50220251	RING GEAR SUPPORT.....	2
22	102594	STEERING CASE.....	2			(includes 32, 33, and 40)	
		(includes item 12)				Front Axle SN: P-ITA-771550 and up	
23	102595	SEAL.....	2			Rear Axle SN: P-ITA-771564 and up	
24	102576	MAGNET PLUG.....	2				
25	102575	PLUG.....	4				
26	102598	STEERING CASE.....	2				
		(includes item 12)					
27	102599	SEAL.....	2				

**NOTE:** Quantities shown are for one axle.

RS6 and RS8 Models Only

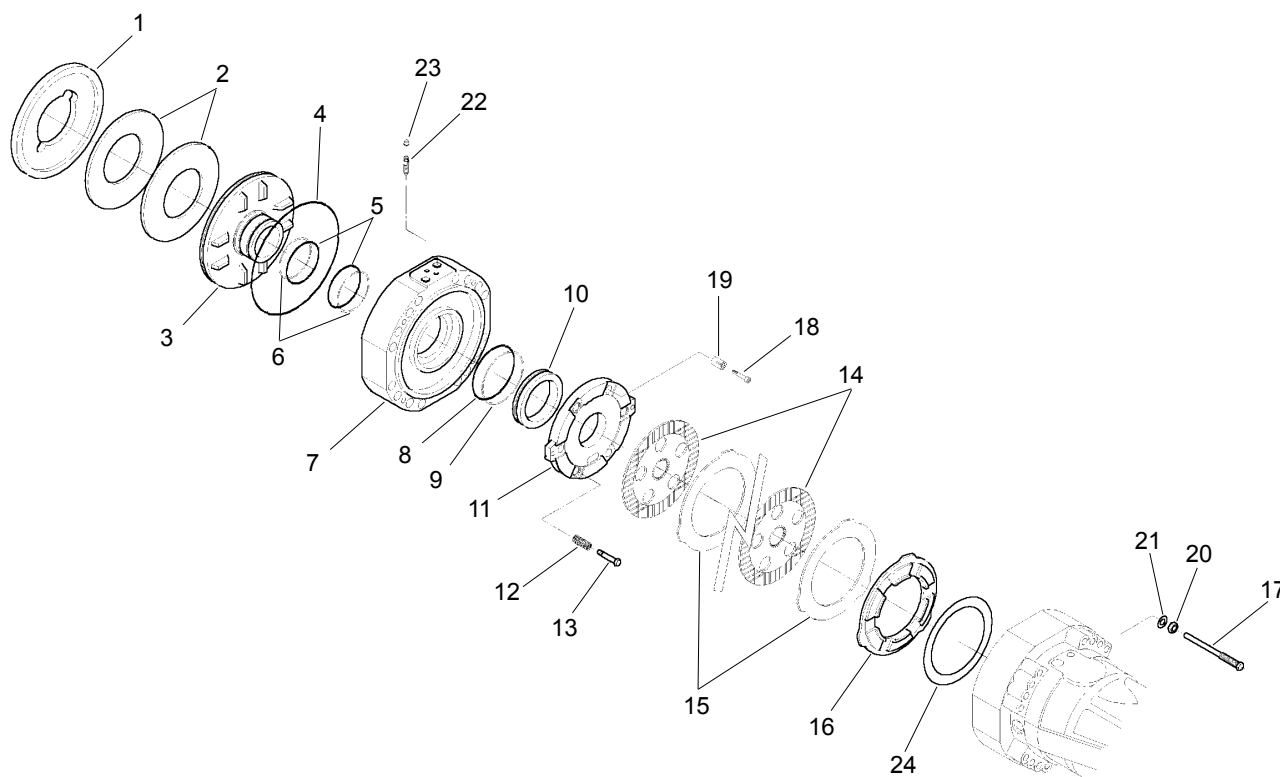


Axles

RS Series

Brakes - Front - (RS6 and RS8 Models)

RS6 and RS8 Models Only





Telescopic Handler

Axles

Brakes - Front - (RS6 and RS8 Models)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102617	SPACER	2	14	L500527	BRAKE DISC	8
02	102618	SPRING	4	15	L500536	INTERMEDIATE BRAKE DISC	8
03	102619	PISTON	2	16	102629	SPACER	2
04	102620	O-RING	2	17	102630	BOLT	4
05	102621	O-RING	4	18	102631	ADJUSTING BOLT	6
06	102622	BACKUP RING	4	19	102632	SPRING	6
07	102623	COVER	2	20	102633	NUT	4
08	L98368	O-RING	2	21	102634	LOCK WASHER	4
09	102624	BACKUP RING	2	22	104655	BLEEDING BOLT	4
10	102625	PISTON	2	23	L500496	PLUG	4
11	102626	INTERMEDIATE BRAKE DISC	2	24	102635	SHIM (20mm)	2
12	102627	SPRING	6		102636	SHIM (30mm)	2
13	102628	ADJUSTING BOLT	6		102637	SHIM (50mm)	2



NOTE: Quantities shown are for one axle.

RS6 and RS8 Models Only

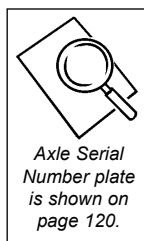


Axles

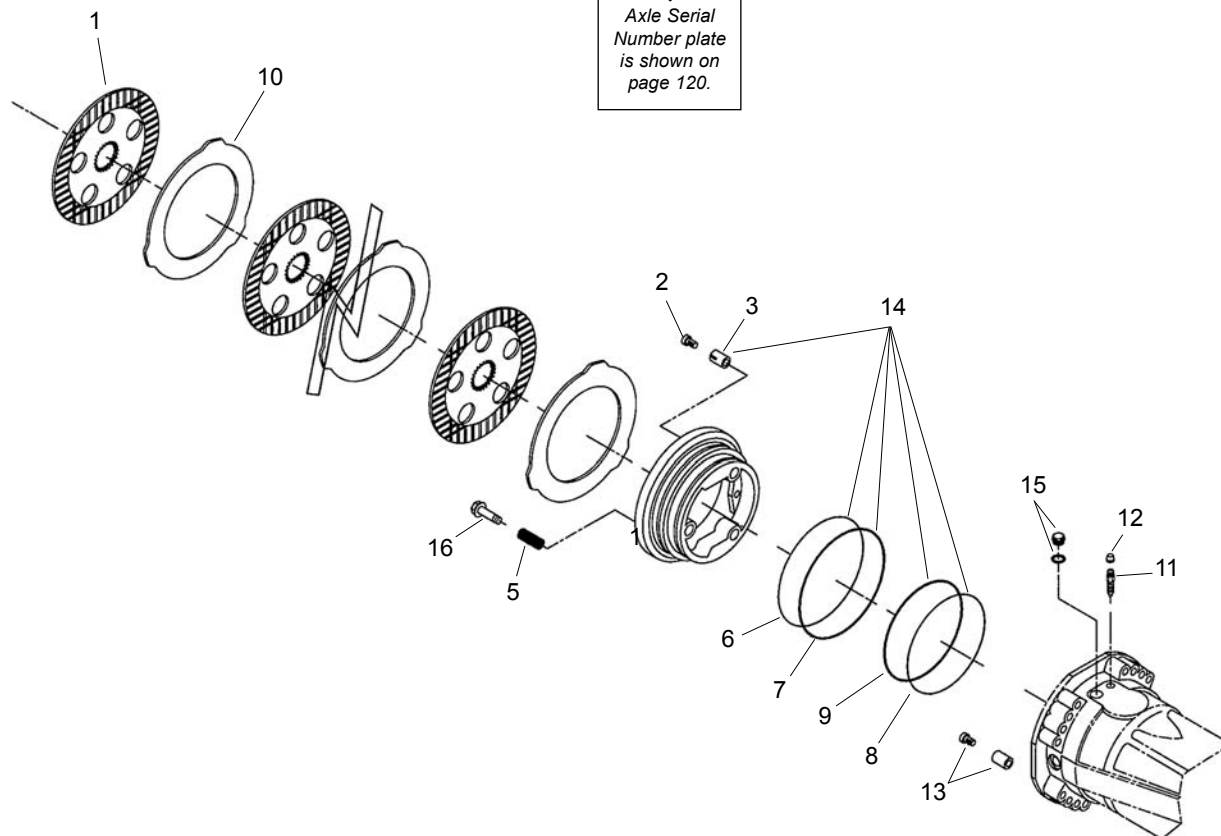
RS Series

Brakes - Rear - (RS6 and RS8 Models)

Rear Axle SN P-ITA-771564 and up



Axle Serial
Number plate
is shown on
page 120.



RS6 and RS8 Models Only

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L500527	BRAKE DISC	8	11	104655	BLEEDING BOLT	2
02	102897	ADJUSTING BOLT	6	12	L500496	PLUG	2
03	102632	SPRING	6	13	106097	PILOT BOLT	2
04	NSS	PISTON (included with item 14)	2	14	50220256	PISTON	2
05	102627	SPRING	6			(includes items, 3, 4, and 6-9)	
06	L500532	BACK-UP RING	2	15	50220068	PLUG and WASHER	2
07	L500533	O-RING	2	16	102628	ADJUSTING BOLT	6
08	L500534	BACK-UP RING	2				
09	L500535	O-RING	2				
10	L500536	INTERMEDIATE BRAKE DISC	10				



NOTE: Quantities shown are for one axle.

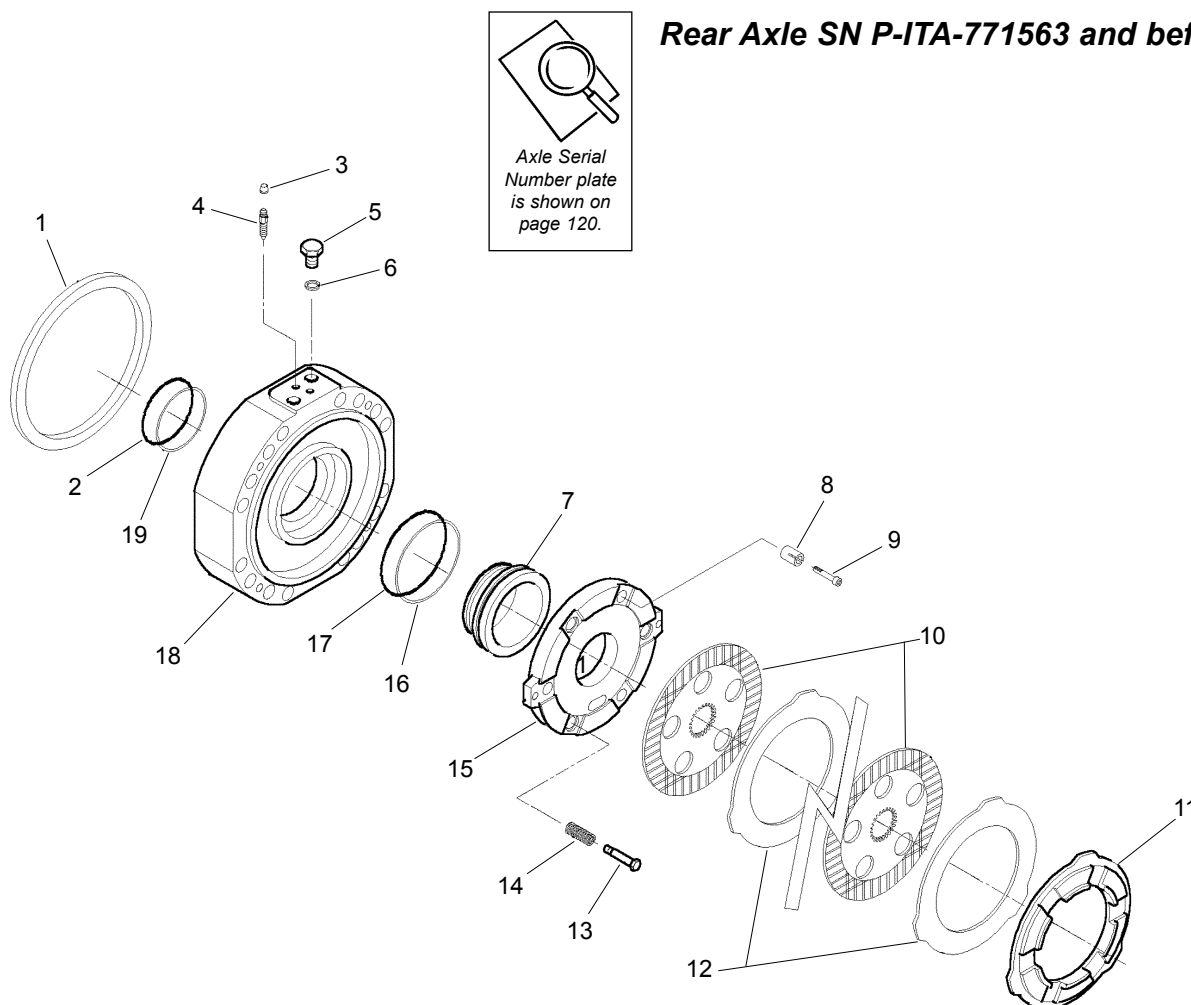


Telescopic Handler

Axles

Brakes - Rear - (RS6 and RS8 Models)

Rear Axle SN P-ITA-771563 and before



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102644	SPACER	2	11	102629	SPACER	2
02	102622	BACK-UP RING.....	2	12	L500536	INTERMEDIATE BRAKE DISC....	8
03	L500496	PLUG.....	2	13	102628	ADJUSTING BOLT	6
04	104655	BLEEDING BOLT	2	14	102627	SPRING	6
05	50220068	PLUG ASSEMBLY:	2	15	102626	INTERMEDIATE BRAKE DISC....	2
		(includes item 6)		16	102624	BACKUP RING	2
06	NSS	SEAL WASHER.....	2	17	L98368	O-RING	2
		(included with item 5)		18	102898	COVER	2
07	102642	PISTON	2	19	102621	O-RING	2
08	102632	SPRING.....	6				
09	102897	ADJUSTING BOLT	6				
10	L500527	BRAKE DISC.....	8				



NOTE: Quantities shown are for one axle.

RS6 and RS8 Models Only

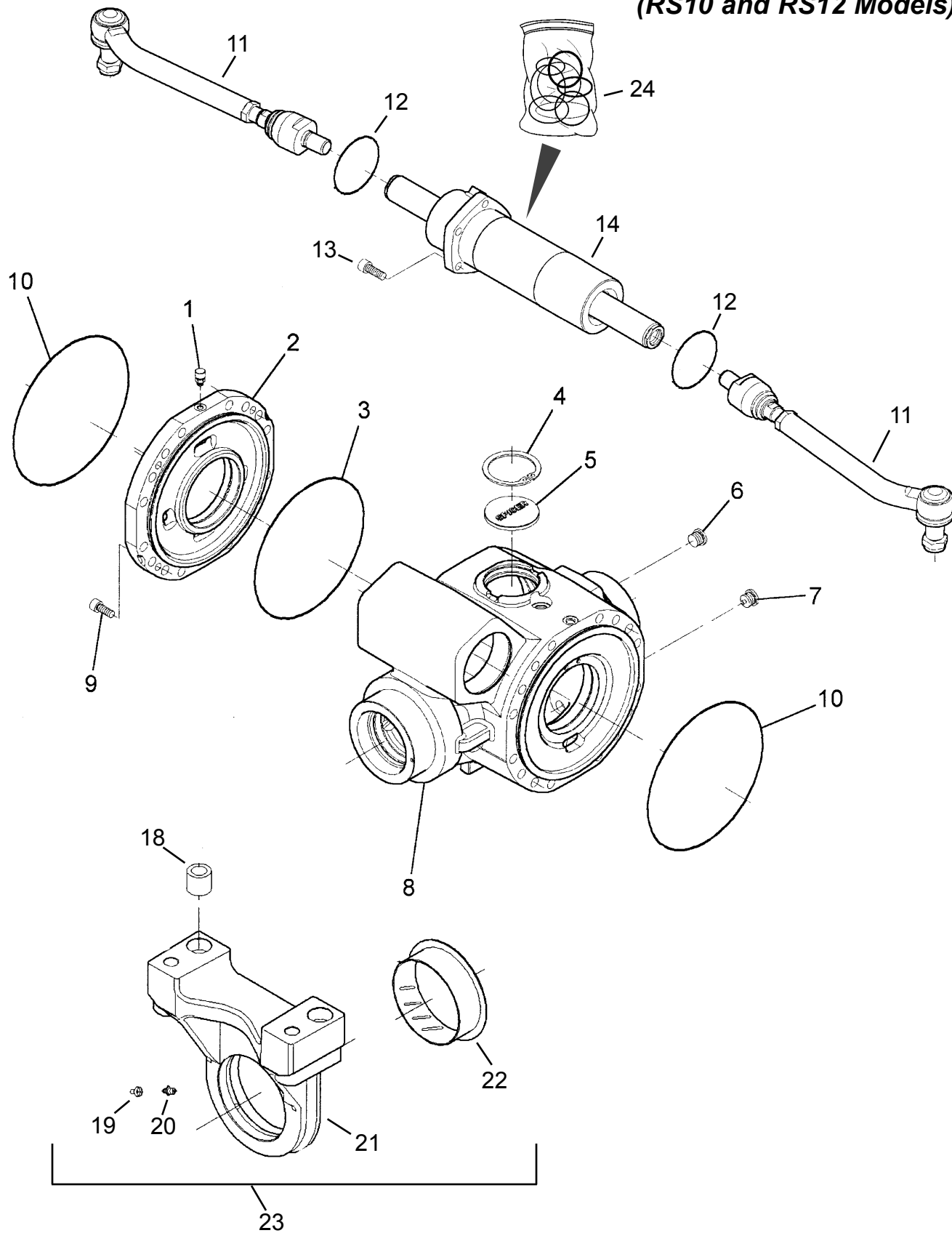


Axle

RS Series

Front and Rear Axle - Steer Cylinder, Central Housing, and Trunion

(RS10 and RS12 Models)



RS10 and RS12 Models Only



Telescopic Handler

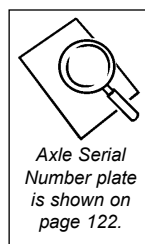
Axle

Front and Rear Axle - Steer Cylinder, Central Housing, and Trunion

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		VENT/ PLUG	1	19	L500496	PLUG	2
	50220030	<i>Note a - Vent (shown)</i>		20	L98355	GREASE FITTING	2
	50220030	<i>Note b - Vent (shown)</i>		21	106080	SUPPORT, AXLE	2
	L98419	<i>Note c - Plug (not shown)</i>		22	106079	THRUST BUSHING	2
02	106002	INTERMEDIATE COVER	1	23	106081	SUPPORT ASSEMBLY	2
03	106003	O-RING	1			<i>(includes items 18-22)</i>	
04	L98373	SNAP RING	1	24	106124	SEAL KIT, STEER CYLINDER	1
05		PLUG	1				
	104518	<i>(Front Axle)</i>		a		<i>Used only on the rear axle.</i>	
	L98424	<i>(Rear Axle)</i>		b		<i>Machines with axle S/N S-ITA-703390 and before use a vent in this location.</i>	
06	104568	PLUG	1	c		<i>Machines with axle S/N S-ITA-703391 and up use a plug in this location—the axle vent for these units is located on the axle housing; refer to page 143, item 69.</i>	
07	104569	MAGNETIC PLUG	1				
08	106115	HOUSING	1				
09	106005	BOLT	4				
10	106006	O-RING	2				
11	106076	TIE ROD	2				
	106871	NUT <i>(sold separately)</i>	AR				
12	106075	O-RING	2				
13	106077	BOLT	5				
14	106074	STEER CYLINDER	1				
18	106078	BUSHING	4				



NOTE: Quantities shown are for one axle.





Axle

RS Series

Front Axle - Differential - (RS10 and RS12 Models)

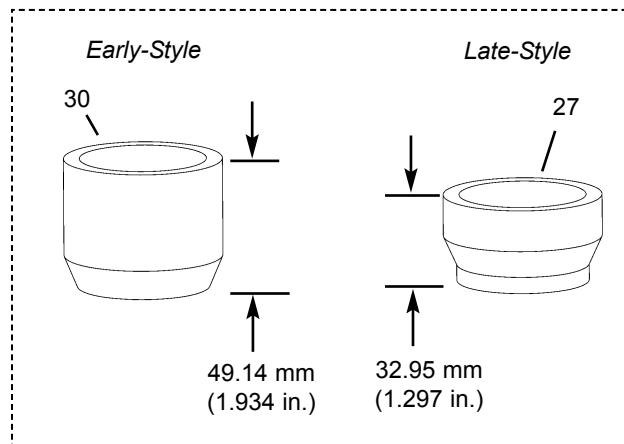
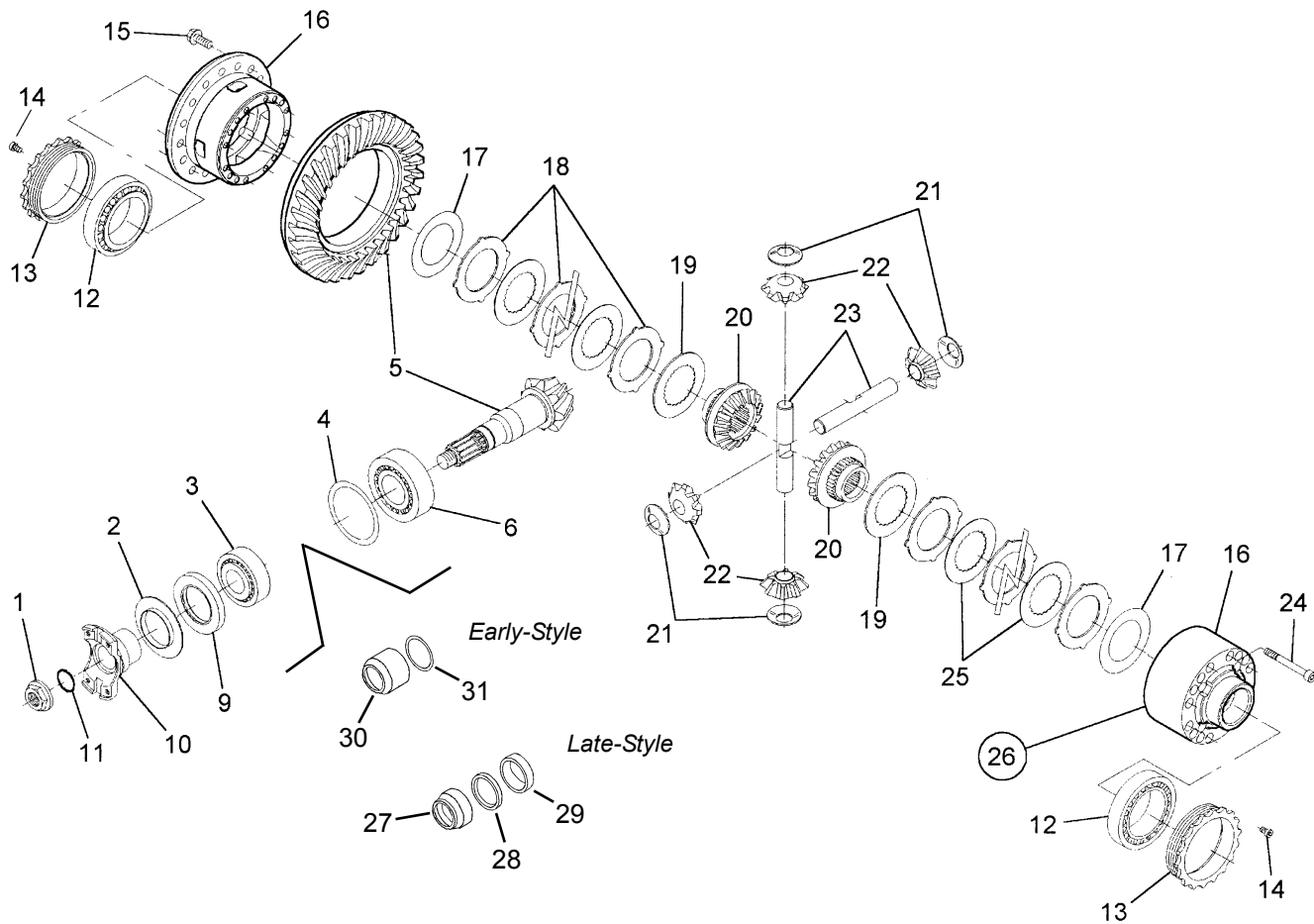


Figure 1.



Telescopic Handler

Axle

Front Axle - Differential - (RS10 and RS12 Models)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106007	NUT	1	27 ^a	50220045	PINION BEARING SPACER	1
02	106008	COVER PLATE	1			(32.95 mm—length)	
03	106009	TAPER ROLLER BEARING	1	28 ^{ac}		SPACER	AR
04		SHIM	AR		50220041	SPACER, 60 x 50 x 5.0 mm	
	106010	SHIM			50220042	SPACER, 60 x 50 x 5.025 mm	
	106011	SHIM			50220043	SPACER, 60 x 50 x 5.05 mm	
	106012	SHIM			50220044	SPACER, 60 x 50 x 5.075 mm	
	106013	SHIM		29 ^{ac}		SPACER	AR
05	106116	BEVEL GEAR SET	1		50220031	SPACER, 60 x 50 x 11.8 mm	
06	106015	TAPER ROLLER BEARING	1		50220032	SPACER, 60 x 50 x 11.9 mm	
09	106102	SEAL	1		50220033	SPACER, 60 x 50 x 12.0 mm	
10	106023	FLANGE	1		50220034	SPACER, 60 x 50 x 12.1 mm	
11	106024	O-RING	1		50220035	SPACER, 60 x 50 x 12.2 mm	
12	106025	TAPER ROLLER BEARING	2		50220036	SPACER, 60 x 50 x 12.3 mm	
13	106026	RING NUT	2		50220037	SPACER, 60 x 50 x 12.4 mm	
14	L500466	BOLT	2		50220038	SPACER, 60 x 50 x 12.5 mm	
15	L500467	BOLT	16		50220039	SPACER, 60 x 50 x 12.6 mm	
16		DIFFERENTIAL CARRIER	1		50220040	SPACER, 60 x 50 x 12.7 mm	
	50220049	Note a		30 ^{be}	NA	PINION BEARING SPACER	0
	106027	Note b				(49.14 mm—length)	
17 ^a	50220046	CLUTCH DISC	2	31 ^{bd}		SHIM	AR
17 ^b		SHIM	2		106016	SHIM, 60 x 50 x 0.15 mm	
	106028	SHIM			106017	SHIM, 60 x 50 x 0.20 mm	
	106029	SHIM			106018	SHIM, 60 x 50 x 0.30 mm	
	106030	SHIM			106019	SHIM, 60 x 50 x 0.40 mm	
18	106031	DISC	10		106020	SHIM, 60 x 50 x 0.50 mm	
19	106032	DISC	2				
20	106033	DIFFERENTIAL SIDE GEAR	2				
21		FRICTION WASHER	4				
	50220054	Note a		a	Axle SN N-ITA-749223 and up *		
	106034	Note b		b	Axle SN N-ITA-749222 and before *		
22	106035	DIFFERENTIAL PINION	4				
23		DIFFERENTIAL SHAFT/PIN	2	c	Use only with pinion bearing spacer item 27.		
	50220055	Note a					
	106036	Note b		d	Use only with pinion bearing spacer item 30.		
24	106037	BOLT	16				
25	106038	DISC	8	e	Early-style pinion bearing spacer—no longer available, replaced by item 27. If ordering item 27, it will also be necessary to order items 28 and 29 as needed to achieve proper spacing and bearing pre-load; refer to axle service manual for more information.		
26		DIFFERENTIAL	1				
		(includes items 16-25)					
	50220051	Note a					
	106039	Note b					



*



IMPORTANT: Before ordering replacement spacers or shims (items 27-31) be sure to measure the length of the pinion bearing spacer; refer to the measurements shown in Figure 1 on the facing page. The shims and spacers for the pinion bearing spacers are not interchangeable.

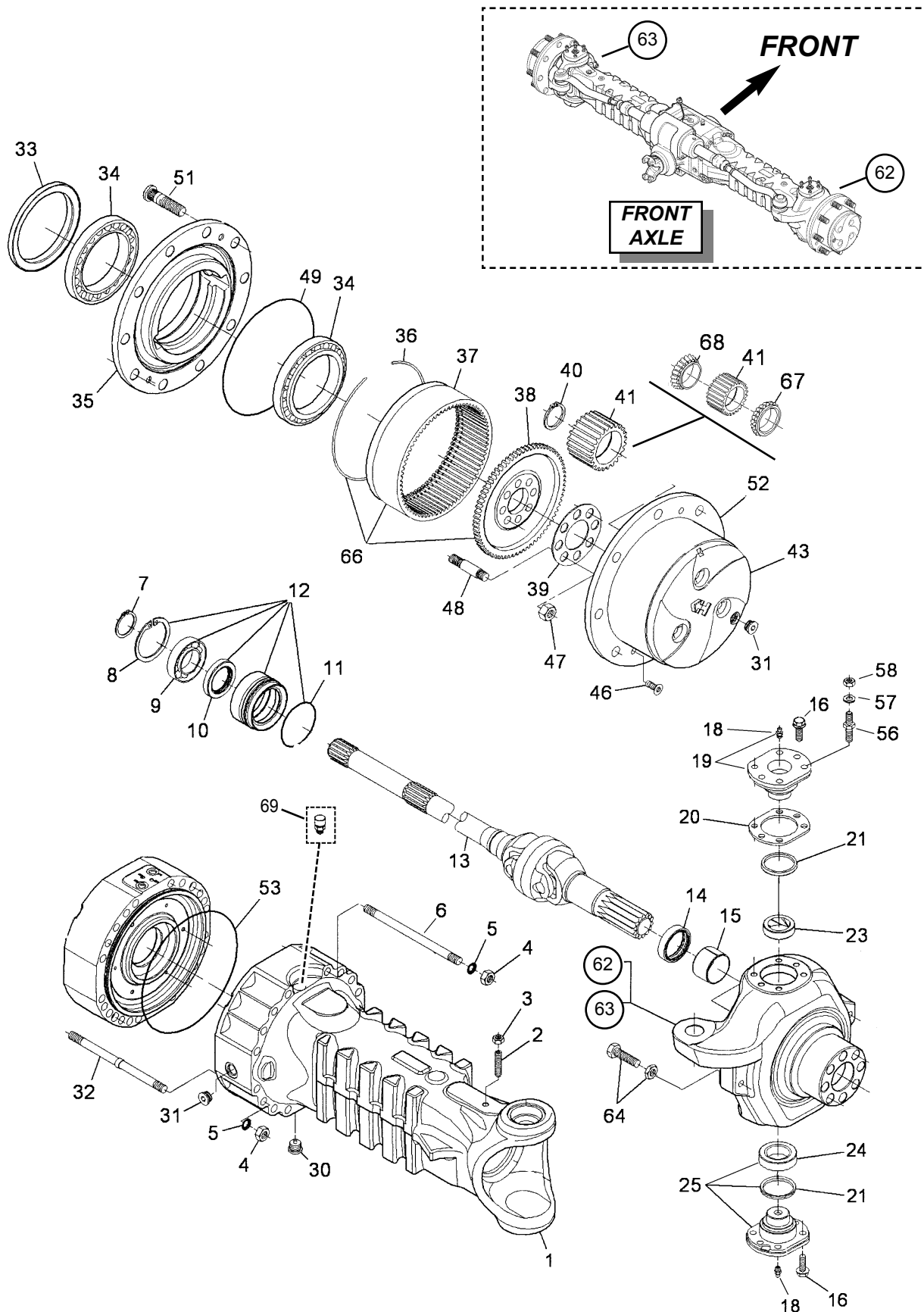
RS10 and RS12 Models Only



Axle

RS Series

Front Axle - Hub Reduction - (RS10 and RS12 Models)



RS10 and RS12 Models Only



Telescopic Handler

Axle

Front Axle - Hub Reduction - (RS10 and RS12 Models)

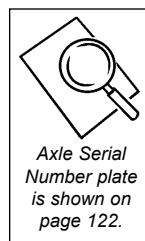
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		AXLE CASE.....	2	43	106053	PLANET GEAR CARRIER	2
	50220624	Note c		46	104504	COUNTER-SUNK BOLT	4
	106117	Note d		47	106121	NUT	16
02	102581	BOLT	2	48	106055	STUD	16
03	L500483	NUT	2	49	102603	O-RING	2
04	102615	NUT	32	51	102601	WHEEL STUD	20
05	L500487	WASHER	32	52	106122	PLANET GEAR CARRIER	2
06	106118	STUD	8			(includes items 36-38 & 40-43)	
07	L98372	SNAP RING	2	53	106006	O-RING	2
08	L98373	SNAP RING	2	56	50220056	STUD	8
09	L98371	BALL BEARING	2	57	102583	WASHER	8
10	L500489	SEAL	2	58	102587	NUT	8
11	L500490	O-RING	2	62 ^a	106110	STEERING CASE	1
12	L500488	REDUCTION BUSHING	2			(includes item 15)	
13	106119	DOUBLE UNIVERSAL JOINT	2	63 ^a	106111	STEERING CASE	1
14	102595	SEAL	2			(includes item 15)	
15	102588	THRUST BUSHING	1	64	104546	STEERING BOLT & NUT	4
16	L500467	BOLT	8	66	106112	RING GEAR SUPPORT	2
18	L98355	GREASE FITTING	4			(includes items 36-38)	
19	102590	PIVOT PIN	2	67	106113	TAPER ROLLER BEARING	8
20		SHIM	2	68	106114	ROLLER BEARING	8
	102610	SHIM		69 ^b	50220030	VENT	1
	102611	SHIM					
	102612	SHIM					
21	106043	DUST EXCLUDER	2				
23	102589	BUSHING	2				
24	102593	BEARING	2				
25	102591	PIVOT PIN	2				
30	104569	MAGNETIC PLUG	2				
31	104568	PLUG	3				
32	106120	STUD	24				
33	104517	SEAL	2				
34	106045	TAPER ROLLER BEARING	4				
35	106046	WHEEL HUB	2				
36	102608	SNAP RING	2				
37	106105	RING GEAR	2				
38	106106	RING GEAR SUPPORT	2				
39	106049	LOCKING PLATE	2				
40	106107	SNAP RING	8				
41	106108	PLANET GEAR	8				

a When ordering, refer to inset illustration "Front Axle" on facing page to determine correct steering case (e.g., left-side or right-side).

b Used in only one axle case (as shown), and only on axles in the axle S/N range S-ITA-703391 and up; the other side (axle case) uses a plug (PN L98419) in place of this vent.

c Axle SN S-ITA-703391 and up

d Axle SN S-ITA-703390 and before





Axle

RS Series

Rear Axle - Differential - (RS10 and RS12 Models)

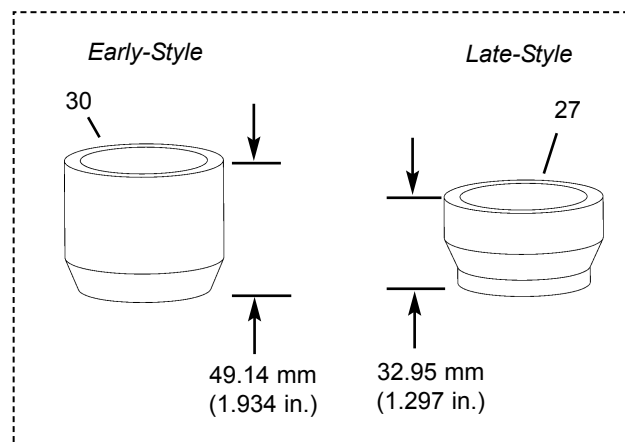
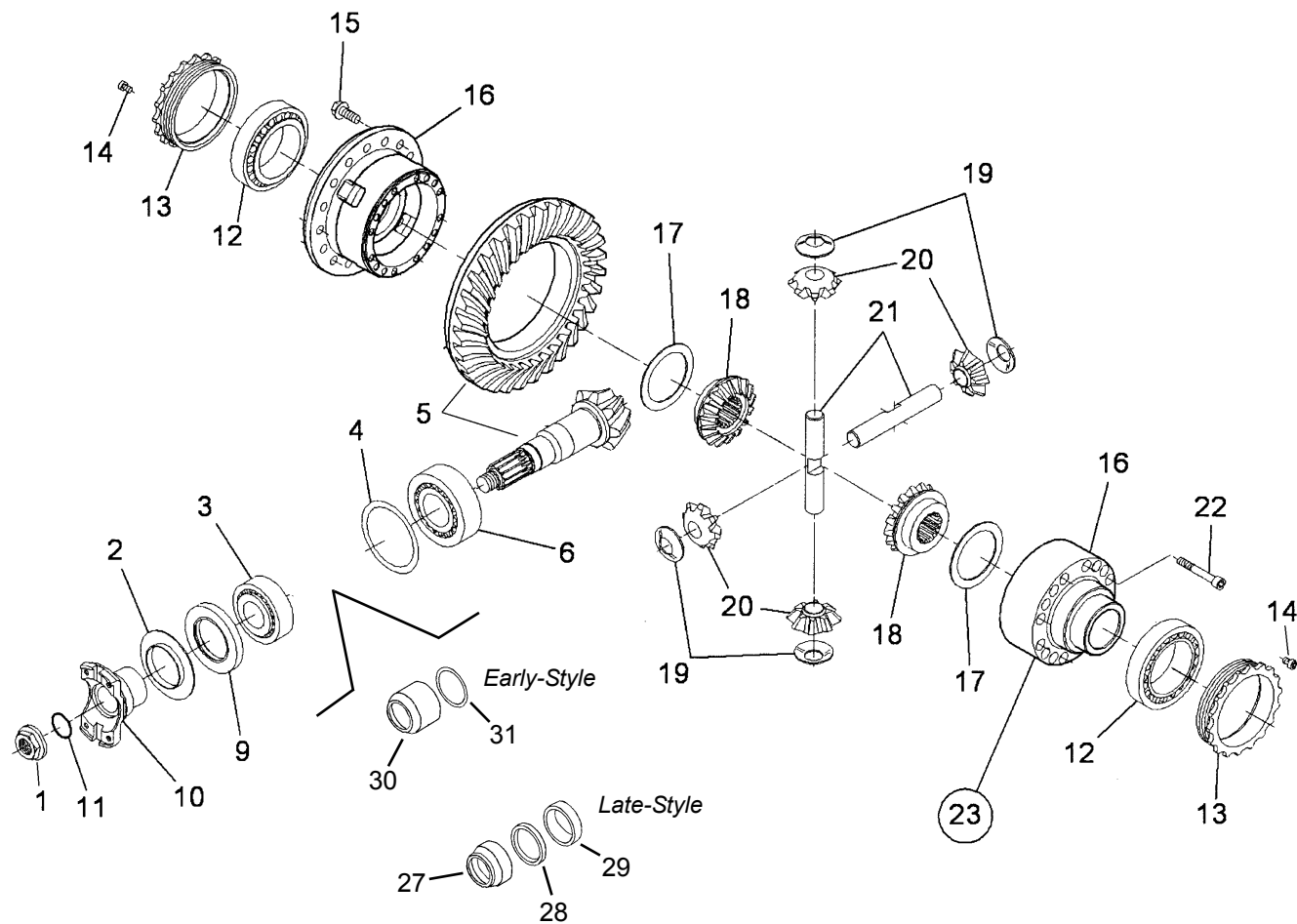


Figure 2.



Telescopic Handler

Axle

Rear Axle - Differential - (RS10 and RS12 Models)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106007	NUT	1	27 ^a	50220045	PINION BEARING SPACER	1
02	106008	COVER PLATE	1			(32.95 mm—length)	
03	106009	TAPER ROLLER BEARING	1	28 ^{ac}		SPACER	AR
04		SHIM	AR		50220041	SPACER, 60 x 50 x 5.0 mm	
	106010	SHIM			50220042	SPACER, 60 x 50 x 5.025 mm	
	106011	SHIM			50220043	SPACER, 60 x 50 x 5.05 mm	
	106012	SHIM			50220044	SPACER, 60 x 50 x 5.075 mm	
	106013	SHIM		29 ^{ac}		SPACER	AR
05	106259	BEVEL GEAR SET	1		50220031	SPACER, 60 x 50 x 11.8 mm	
06	106015	TAPER ROLLER BEARING	1		50220032	SPACER, 60 x 50 x 11.9 mm	
09	106102	SEAL	1		50220033	SPACER, 60 x 50 x 12.0 mm	
10	106023	FLANGE	1		50220034	SPACER, 60 x 50 x 12.1 mm	
11	106024	O-RING	1		50220035	SPACER, 60 x 50 x 12.2 mm	
12	106025	TAPER ROLLER BEARING	2		50220036	SPACER, 60 x 50 x 12.3 mm	
13	106026	RING NUT	2		50220037	SPACER, 60 x 50 x 12.4 mm	
14	L500466	BOLT	2		50220038	SPACER, 60 x 50 x 12.5 mm	
15	L500467	BOLT	16		50220039	SPACER, 60 x 50 x 12.6 mm	
16		DIFFERENTIAL CARRIER	1		50220040	SPACER, 60 x 50 x 12.7 mm	
	50220048	Note a		30 ^{be}	NA	PINION BEARING SPACER	0
	106083	Note b				(49.14 mm—length)	
17		FRICTION WASHER	2	31 ^{bd}		SHIM	AR
	50220052	Note a			106016	SHIM, 60 x 50 x 0.15 mm	
	106084	Note b			106017	SHIM, 60 x 50 x 0.20 mm	
18		DIFFERENTIAL SIDE GEAR	2		106018	SHIM, 60 x 50 x 0.30 mm	
	50220053	Note a			106019	SHIM, 60 x 50 x 0.40 mm	
	106085	Note b			106020	SHIM, 60 x 50 x 0.50 mm	
19		FRICTION WASHER	4				
	50220054	Note a					
	106034	Note b					
20	106035	DIFFERENTIAL PINON	4	a	Axle SN N-ITA-749220 and up *		
21		PIN	2	b	Axle SN N-ITA-749219 and before *		
	50220055	Note a					
	106036	Note b					
22		BOLT	15	c	Use only with pinion bearing spacer item 27.		
	50220029	Note a					
	106086	Note b		d	Use only with pinion bearing spacer item 30.		
23		DIFFERENTIAL	1	e	Early-style pinion bearing spacer—no longer available, replaced by item 27. If ordering item 27, it will also be necessary to order items 28 and 29 as needed to achieve proper spacing and bearing pre-load; refer to axle service manual for more information.		
		(includes items 16-22)					
	50220050	Note a					
	106087	Note b					



Axle Serial
Number plate
is shown on
page 122.

*



IMPORTANT: Before ordering replacement spacers or shims (items 27-31) be sure to measure the length of the pinion bearing spacer; refer to the measurements shown in Figure 2 on the facing page. The shims and spacers for the pinion bearing spacers are not interchangeable.

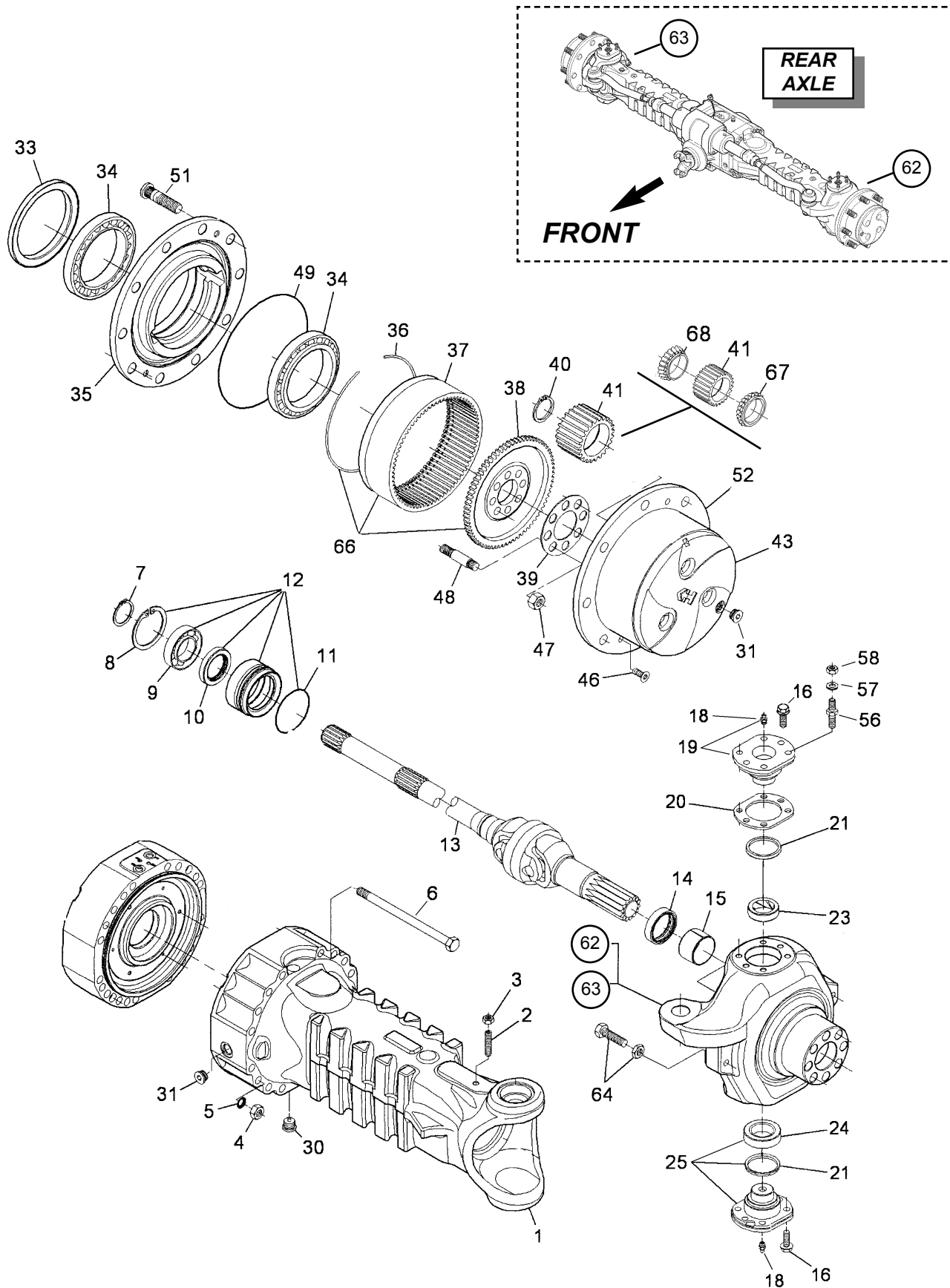
RS10 and RS12 Models Only



Axle

RS Series

Rear Axle - Hub Reduction - (RS10 and RS12 Models)



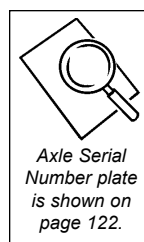
RS10 and RS12 Models Only

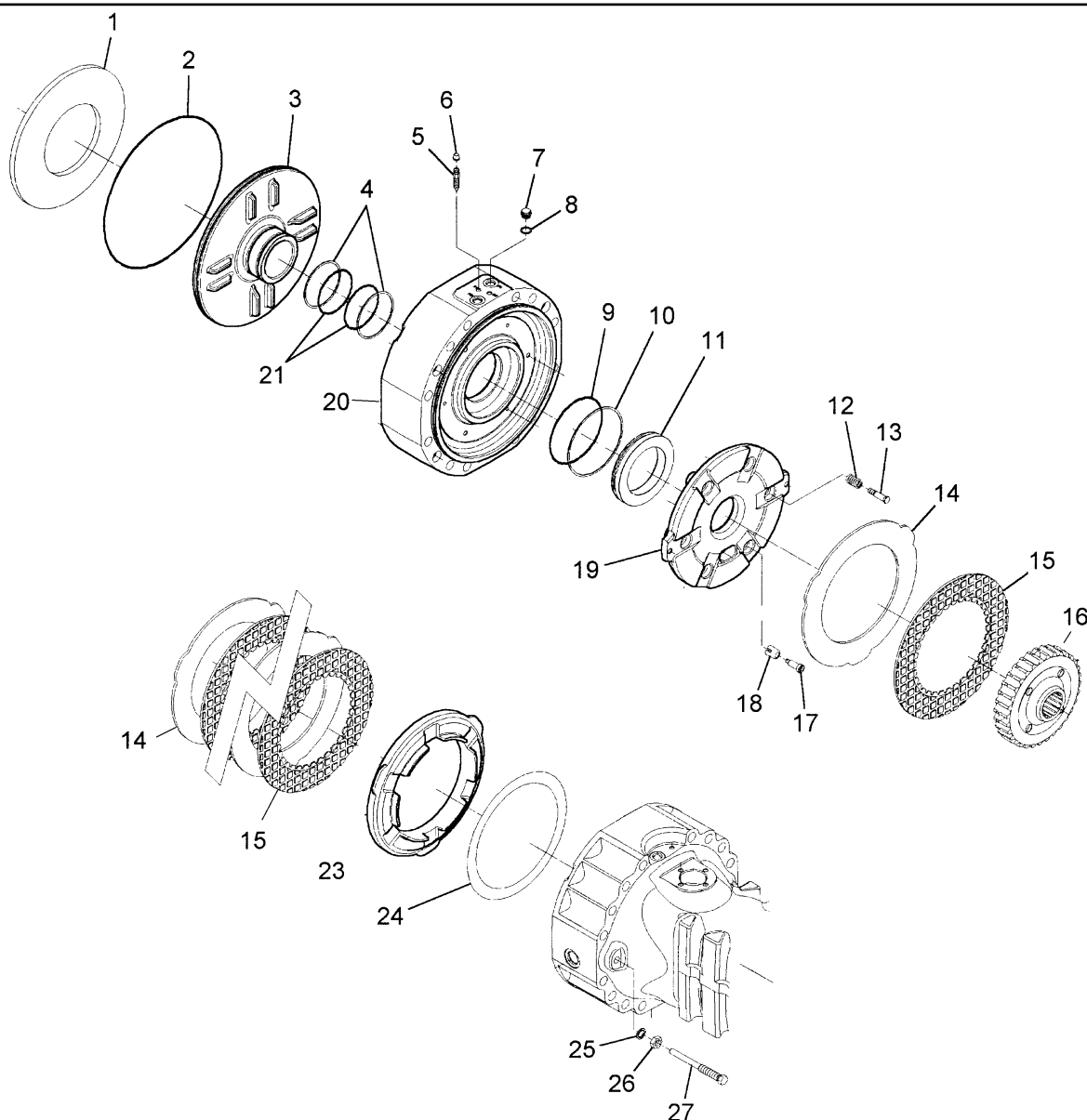
**Telescopic Handler****Axle****Rear Axle - Hub Reduction - (RS10 and RS12 Models)**

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106103	AXLE CASE.....	2	37	106105	RING GEAR	2
02	102581	BOLT	2	38	106106	RING GEAR SUPPORT	2
03	L500483	NUT	2	39	106049	LOCKING PLATE	2
06	106089	BOLT	32	40	106107	SNAP RING.....	8
07	L98372	SNAP RING	2	41	106108	PLANET GEAR	8
08	L98373	SNAP RING	2	43	106109	PLANET GEAR CARRIER	2
09	L98371	BALL BEARING.....	2	46	104504	COUNTER-SUNK BOLT	4
10	L500489	SEAL	2	47	106054	NUT	16
11	L500490	O-RING	2	48	106055	STUD	16
12	L500488	REDUCTION BUSHING	2	49	102603	O-RING	2
13	106104	DOUBLE UNIVERSAL JOINT.....	2	51	102601	WHEEL STUD	20
14	102595	SEAL	2	52	106056	PLANET GEAR CARRIER	2
15	102588	THRUST BUSHING	1			<i>(includes items 36-38 & 40-43)</i>	
16	L500467	BOLT	8	56	50220056	STUD	8
18	L98355	GREASE FITTING.....	4	57	102583	WASHER.....	8
19	102590	PIVOT PIN.....	2	58	102587	NUT	8
20		SHIM	2	62 ^a	106110	STEERING CASE	1
	102610	SHIM				<i>(includes item 15)</i>	
	102611	SHIM		63 ^a	106111	STEERING CASE	1
	102612	SHIM				<i>(includes item 15)</i>	
21	106043	DUST EXCLUDER	2	64	104546	STEERING BOLT & NUT	4
23	102589	BUSHING	2	66	106112	RING GEAR SUPPORT	2
24	102593	BEARING.....	2			<i>(includes items 36-38)</i>	
25	102591	PIVOT PIN.....	2	67	106113	TAPER ROLLER BEARING	8
30	104569	MAGNETIC PLUG.....	2	68	106114	ROLLER BEARING.....	8
31	104568	PLUG	3				
33	104517	SEAL	2				
34	106045	TAPER ROLLER BEARING	4				
35	106046	WHEEL HUB	2				
36	102608	SNAP RING	2				

a

When ordering, refer to inset illustration "Rear Axle" on facing page to determine correct steering case (e.g., left-side or right-side).



**Axle****RS Series****Front Axle - Brakes - (RS10 and RS12 Models)**

RS10 and RS12 Models Only

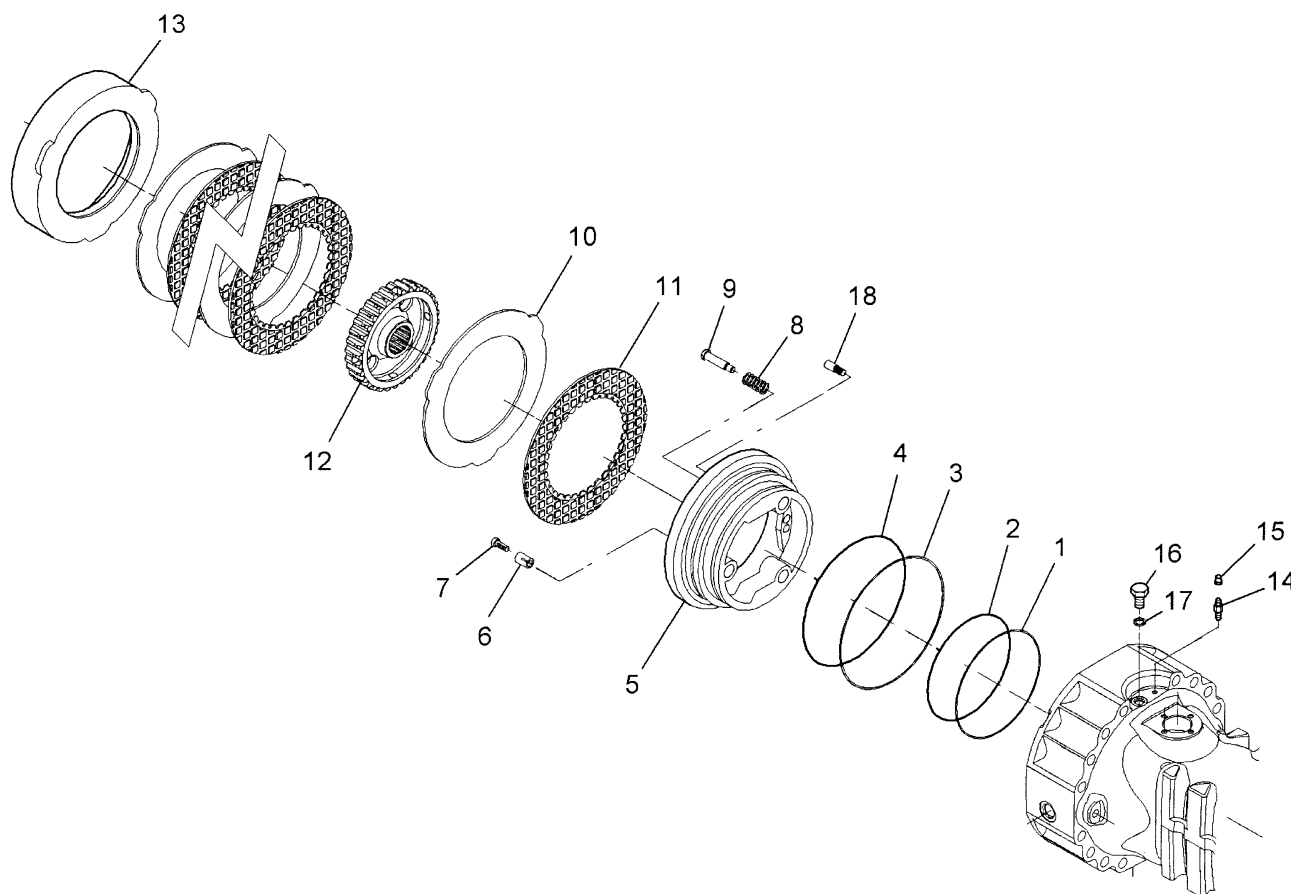
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106061	SPRING.....	2	16	106066	REDUCTION BUSHING	2
02	106006	O-RING	2	17	102631	ADJUSTING BOLT	6
03	106062	PISTON	2	18	102632	SPRING	6
04	102622	BACK-UP RING.....	4	19	106067	INTERMEDIATE BRAKE DISC....	2
05	104655	BLEED SCREW	4	20	106123	INTERMEDIATE COVER	2
06	L500496	PLUG.....	4	21	102621	O-RING	4
07	50220068	PLUG ASSEMBLY (includes #8)...	2	23	106070	SPACER	2
08	NSS	SEAL WASHER (included w/ #7) ..	2	24		SHIM	2
09	104657	O-RING	2		106071	SHIM	
10	104658	BACK-UP RING.....	2		106072	SHIM	
11	106063	PISTON	2		106073	SHIM	
12	102627	SPRING.....	6	25	102634	LOCK WASHER	4
13	102628	ADJUSTING BOLT	6	26	102633	NUT	4
14	106064	INTERMEDIATE BRAKE DISC....	6	27	103391	BOLT	4
15	106065	BRAKE DISC.....	6				



Telescopic Handler

Axle

Rear Axle - Brakes - (RS10 and RS12 Models)



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106091	BACK-UP RING.....	2	10	106064	INTERMEDIATE BRAKE DISC....	6
02	106092	O-RING	2	11	106065	BRAKE DISC.....	6
03	106093	BACK-UP RING.....	2	12	106066	REDUCTION BUSHING	2
04	106094	O-RING	2	13	106096	SPACER	2
05	106095	PISTON	2	14	104655	BLEED SCREW	2
06	102632	SPRING.....	6	15	L500496	PLUG.....	2
07	102897	ADJUSTING BOLT	6	16	50220068	PLUG ASSEMBLY (includes #17) ..	2
08	102627	SPRING.....	6	17	NSS	SEAL WASHER (included w/ #16) .	2
09	102628	ADJUSTING BOLT	6	18	106097	PILOT BOLT	2

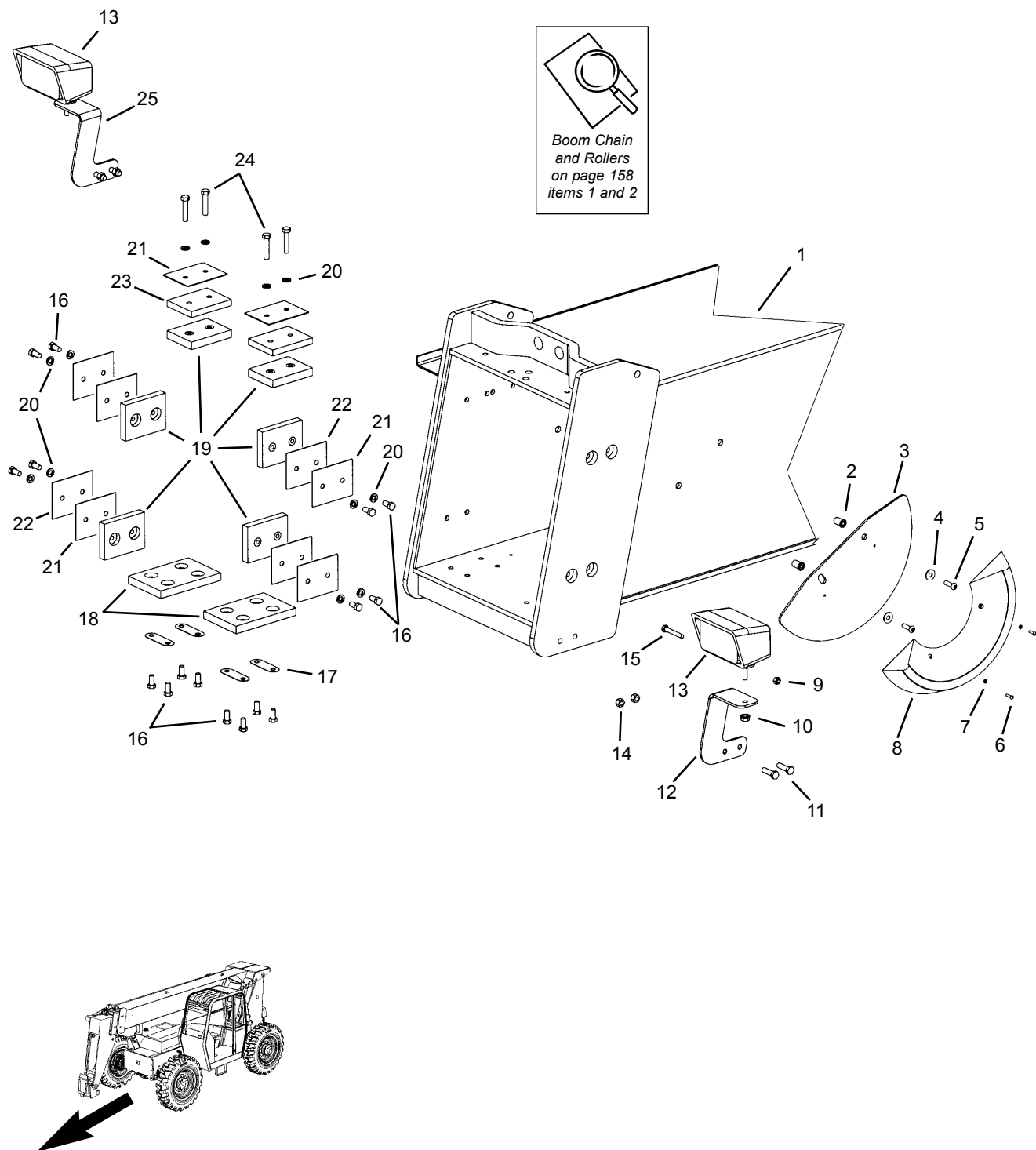
RS10 and RS12 Models Only



Boom

RS Series

3-Section Boom - Outer - Front



**Telescopic Handler****Boom****3-Section Boom - Outer - Front**

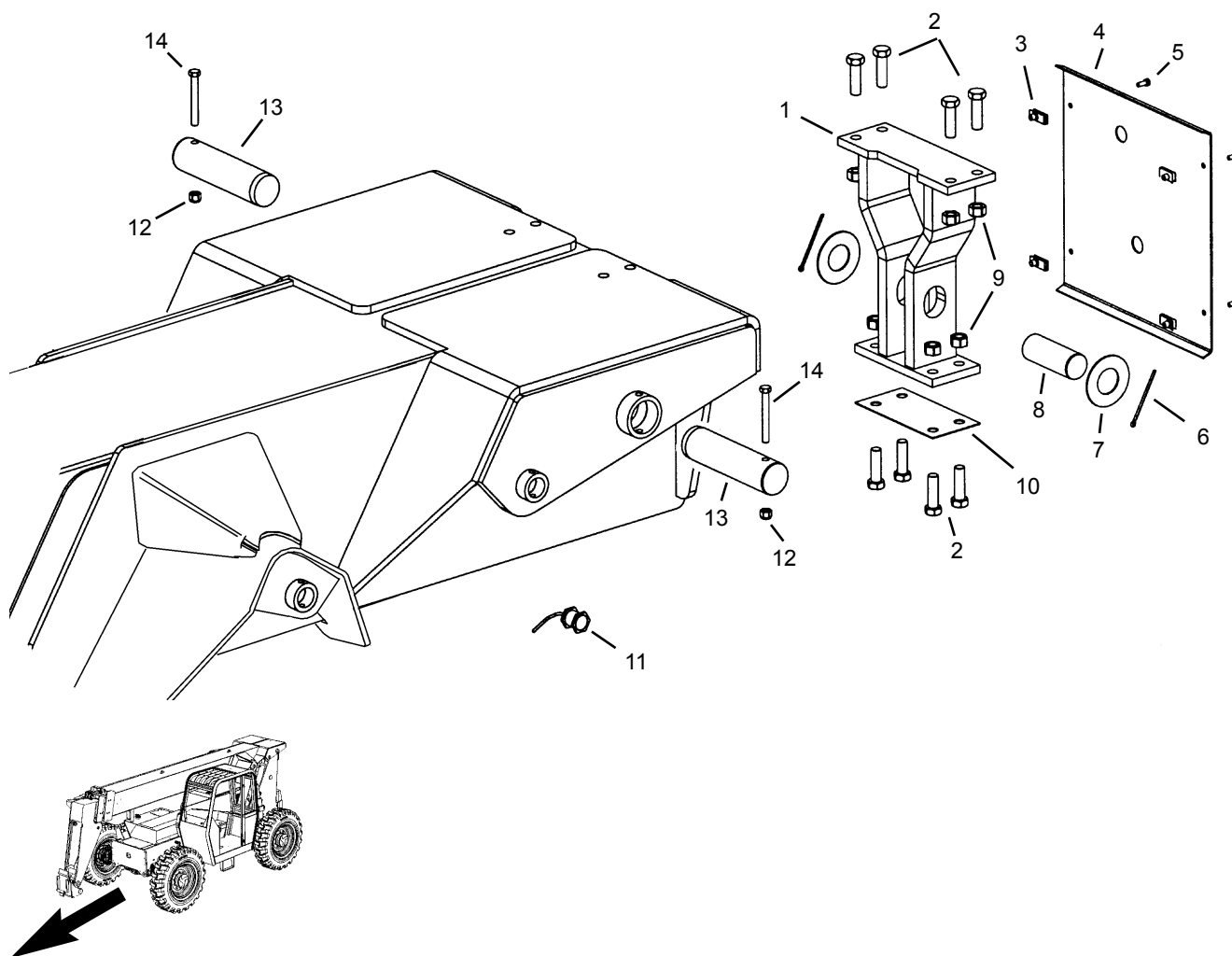
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		OUTER BOOM WELDMENT	1	13	L70040	WORK LIGHT	2
	210434	3-section 42' boom			L70462	LIGHT HARNESS (<i>not shown</i>)	
	210123	3-section 44' boom		14	L520005	3/8"-16 NYLON INSERT NUT	4
02	L70242	5/16"-18 NUT INSERT	2	15	L50835	5/16"-18X2" BOLT	2
03	L65640	BOOM ANGLE IND. PLATE	1	16	650488	3/8"-16X3/4" BOLT	16
04	650810	5/16" FLAT WASHER	2	17	L62715	FLAT-BOLT LOCK	4
05	L52048	5/16"-18X1" BUTTON HD BOLT	2	18	L71020	SLIDE PAD 4" x 6"	2
06	651271	#8X3/8" RND HD MACH SCREW	2	19	L61709	SLIDE PAD	6
07	L50136	#10 LOCK WASHER	2	20	654026	3/8" LOCK WASHER	12
08	L65638	INCLINOMETER - ANGLE IND.	1	21	L62733	1/16"X3"X4" SHIM	6
09	L520004	5/16"-18 NYLON INSERT NUT	2	22	L62734	1/8"X3"X4" SHIM	4
10	090666	3/8"-16 FLARE NUT	2	23	L64132	3/8" PAD SPACER	2
11	651625	3/8"-16X1-1/4" BOLT	4	24	650491	3/8"-16X1-1/4" BOLT	4
12	L70639	BOOM LIGHT BRACKET (<i>left</i>)	1	25	L70635	BOOM LIGHT BRACKET (<i>right</i>)	1



Boom

3-Section Boom - Outer - Rear

RS Series

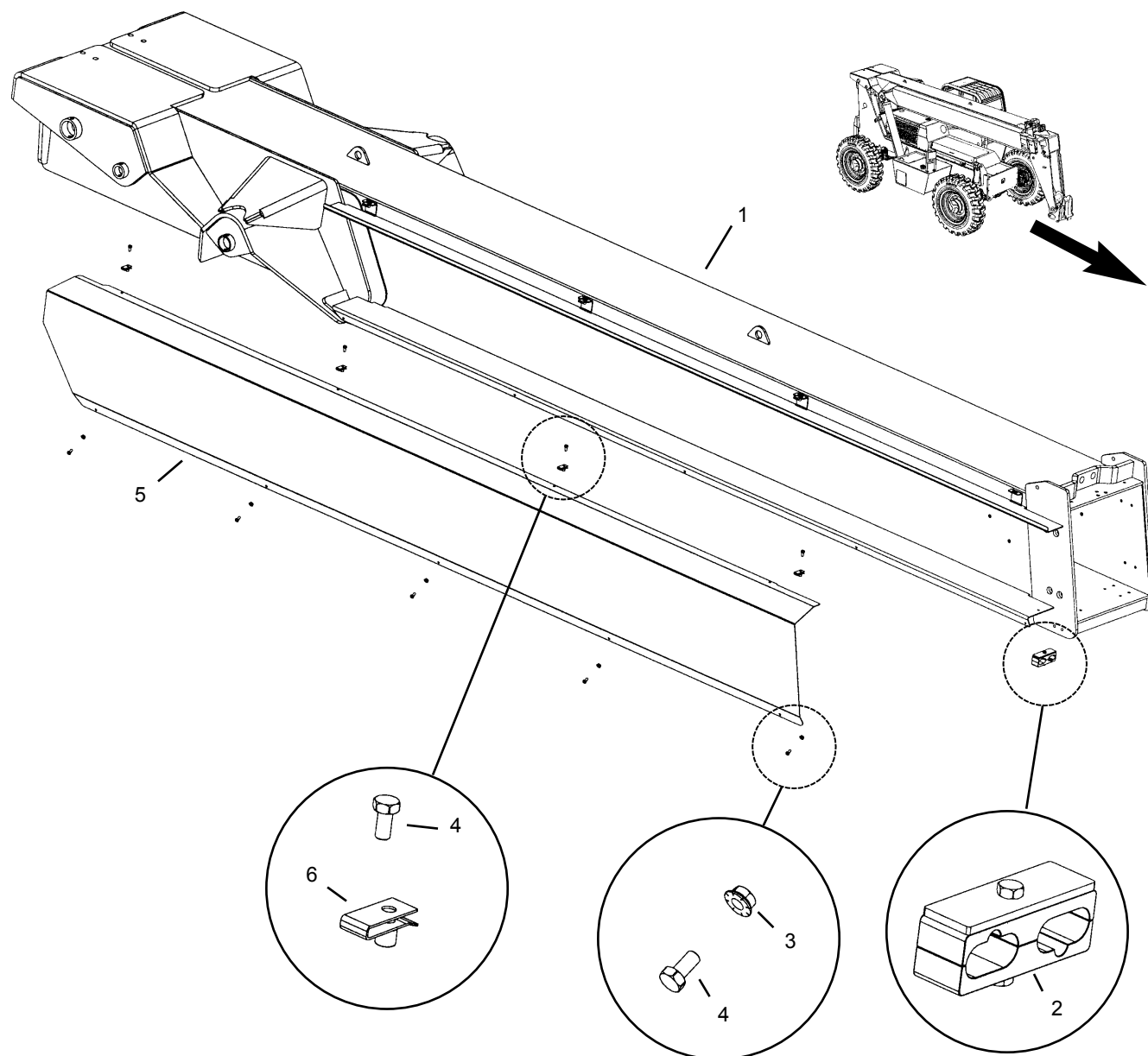


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102335	EXTEND CYLINDER, WELDMENT	1	10	L70420	SHIM, TRUNNION.....	1
02	650711	3/4"-10X3" BOLT GR8.....	8	11	L71165	SWITCH, PROXIMITY.....	1
03	L530004	5/16" FASTENER, RETAINED	4	12	L520019	1/2"-13 NYLON INSERT NUT.....	2
04	102710	COVER, REAR BOOM	1	13	210291	PIN, BOOM	2
05	650486	5/16"-18x3/4" BOLT	4	14	650744	1/2"-13X4" BOLT	2
06	L50608	PIN, COTTER 3/16"X4".....	2	-- ITEMS NOT SHOWN --			
07	L400207	WASHER, THRUST	2				
08	L69994	PIN, ROD END	1	--	270192	CLIP, SMALL WIRE.....	4
09	L50519	3/4"-10 NYLON INSERT NUTS....	8			(used with proximity switch wire)	



Telescopic Handler

Boom 3-Section Boom - Outer Side Cover



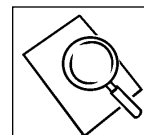
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	210434	OUTER BOOM WELDMENT 1		05	105230	COVER, BOOM SIDE 1	
	210123	3-section 42' boom			210459	3-section 44' boom	
02	L79167	CLAMP ASSEMBLY 1		06	L530004	3-section 42' boom	
03	L50056	5/16"-18 WHIZ LOCK NUT 5				5/16" FASTENER, RETAINED 4	
04	650485	5/16"-18X5/8" BOLT 9					



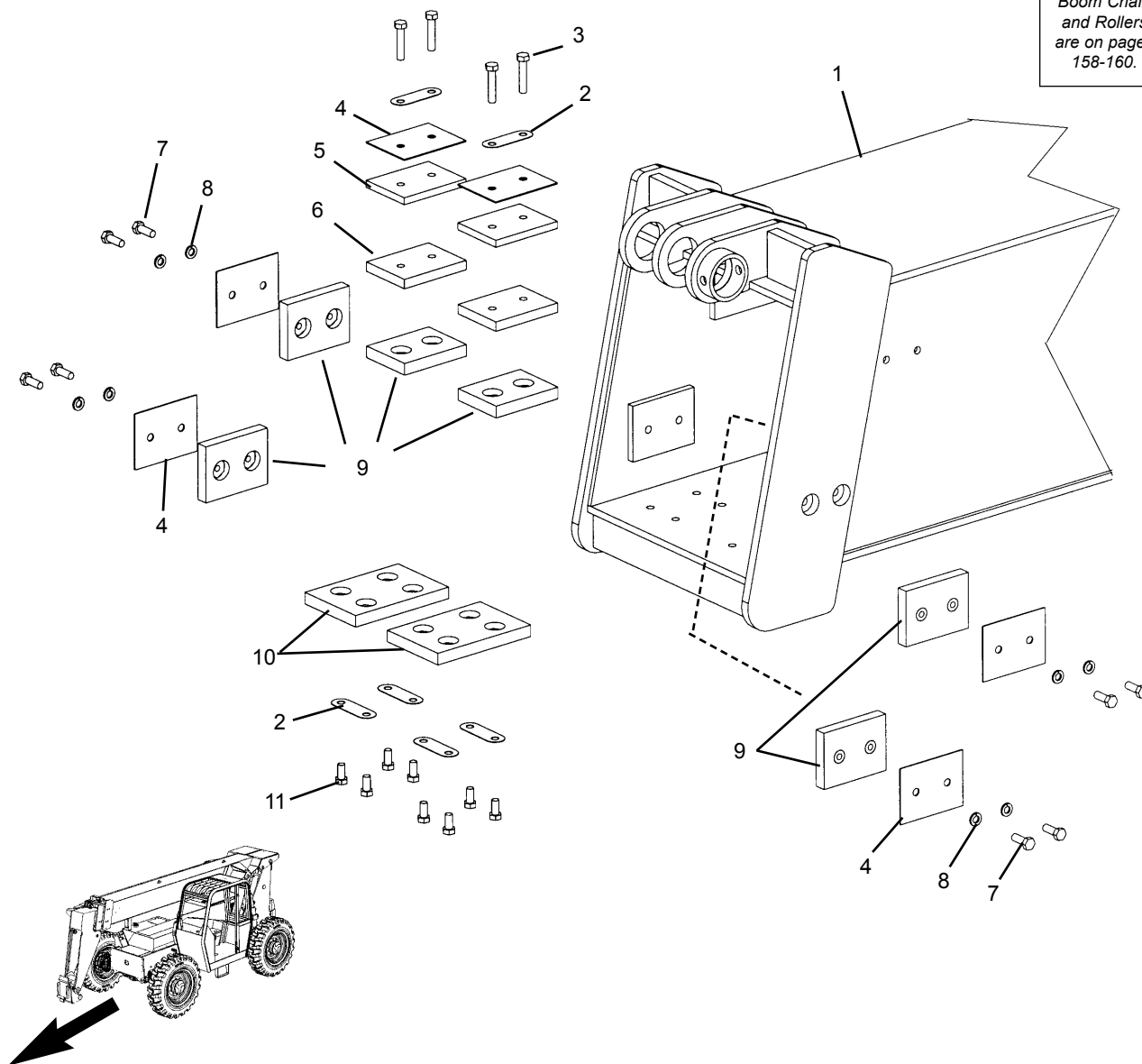
Boom

3-Section Boom - Intermediate - Front

RS Series



Boom Chain
and Rollers
are on pages
158-160.



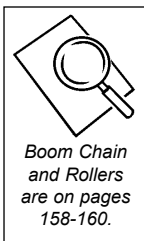
Ref. No.	Part No.	Description	Qty. Req.
01		INTERMEDIATE BOOM..... 1	
	102282	3-section 42' boom	
	102285	3-section 44' boom	
02	L62715	FLAT-BOLT LOCK..... 6	
03	650488	3/8"-16X1-1/2" BOLT..... 4	
04	L62733	1/16"X3"X4" SHIM..... 6	
05	L62734	1/8"X3"X4" SHIM..... 2	

Ref. No.	Part No.	Description	Qty. Req.
06	L64143	1/2"X3"X4" SHIM..... 2	
07	650490	3/8"-16X1" BOLT..... 8	
08	654026	3/8" LOCK WASHER..... 8	
09	L61709	SLIDE PAD..... 6	
10	L71020	SLIDE PAD 4" x 6"..... 2	
11	650488	3/8"-16X3/4" BOLT..... 8	

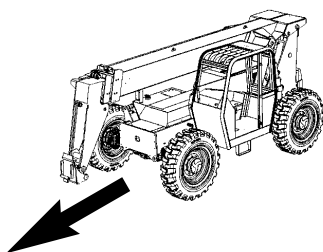
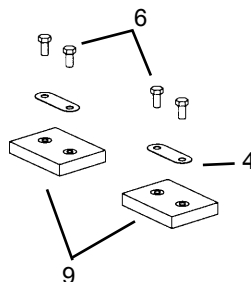
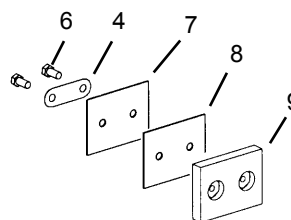
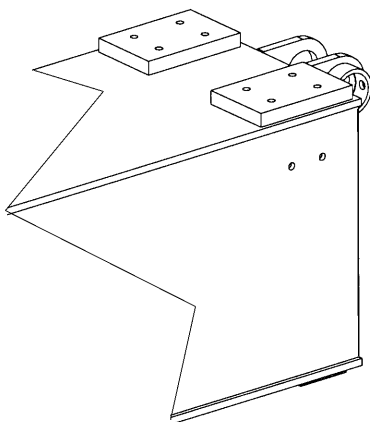
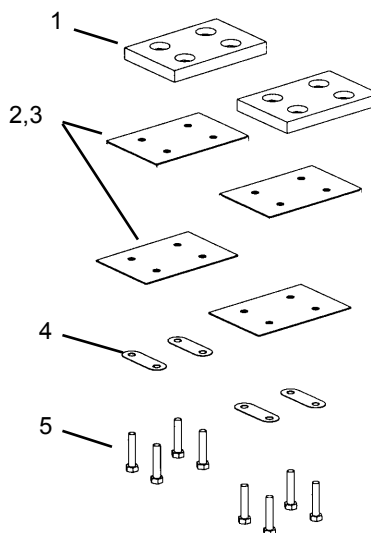
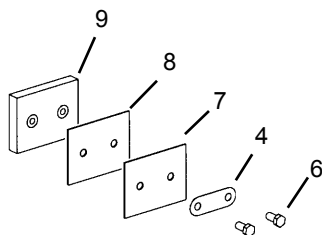


Telescopic Handler

Boom 3-Section Boom - Intermediate - Rear



Boom Chain
and Rollers
are on pages
158-160.



Ref. No.	Part No.	Description	Qty. Req.
01	L71020	SLIDE PAD 4" x 6"	2
02	L62731	1/16"X4"X6" SHIM	AR
03	L62732	1/8"X4"X6" SHIM	AR
04	L62715	FLAT-BOLT LOCK	10
05	650491	3/8"-16X1-1/4" BOLT	8

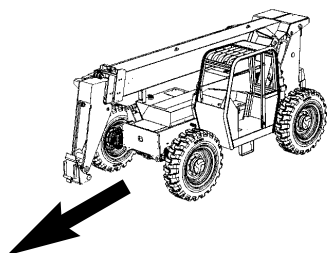
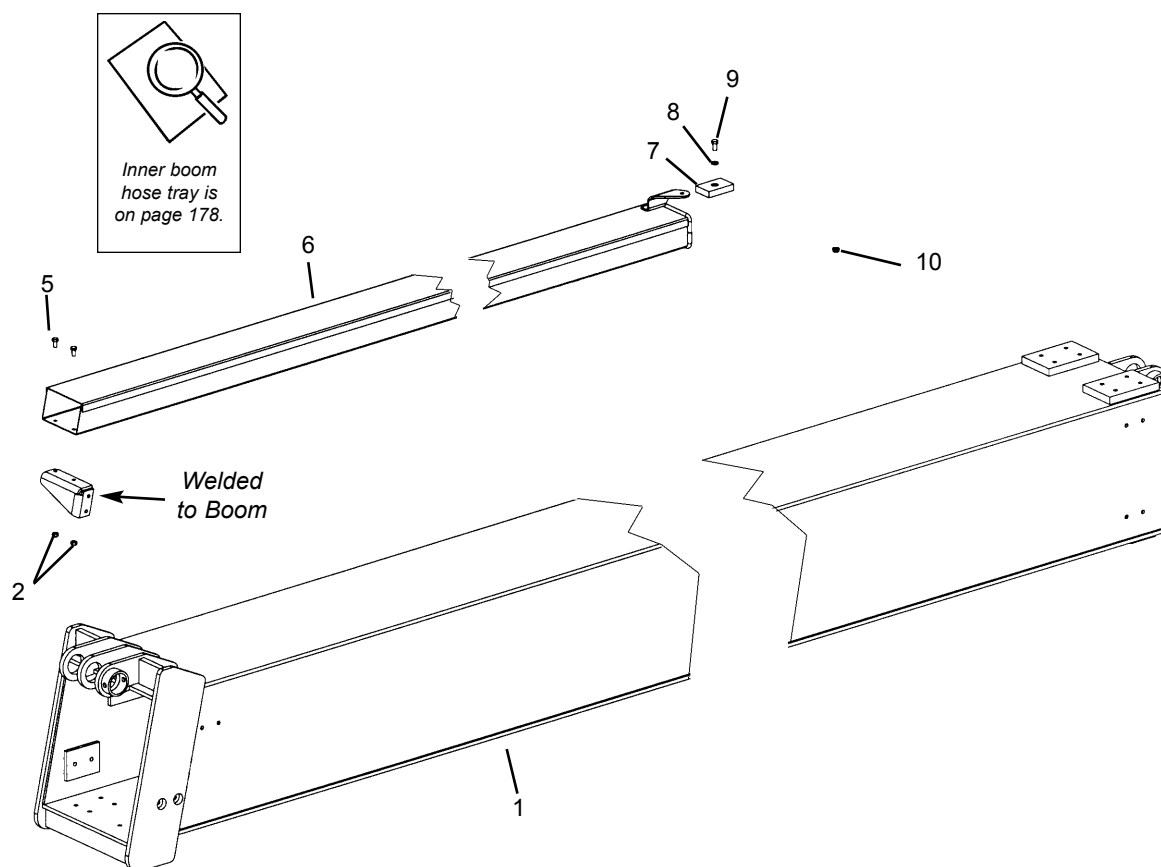
Ref. No.	Part No.	Description	Qty. Req.
06	650488	3/8"-16X3/4" BOLT	8
07	L62733	1/16"X3"X4" SHIM	2
08	L62734	1/8"X3"X4" SHIM	2
09	L61709	SLIDE PAD	4



Boom

RS Series

3-Section Boom - Intermediate Hose Tray



**Telescopic Handler****Boom****3-Section Boom - Intermediate Hose Tray**

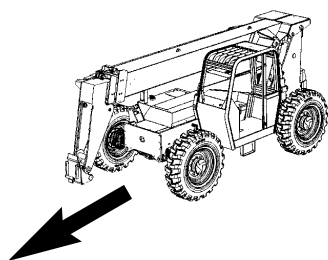
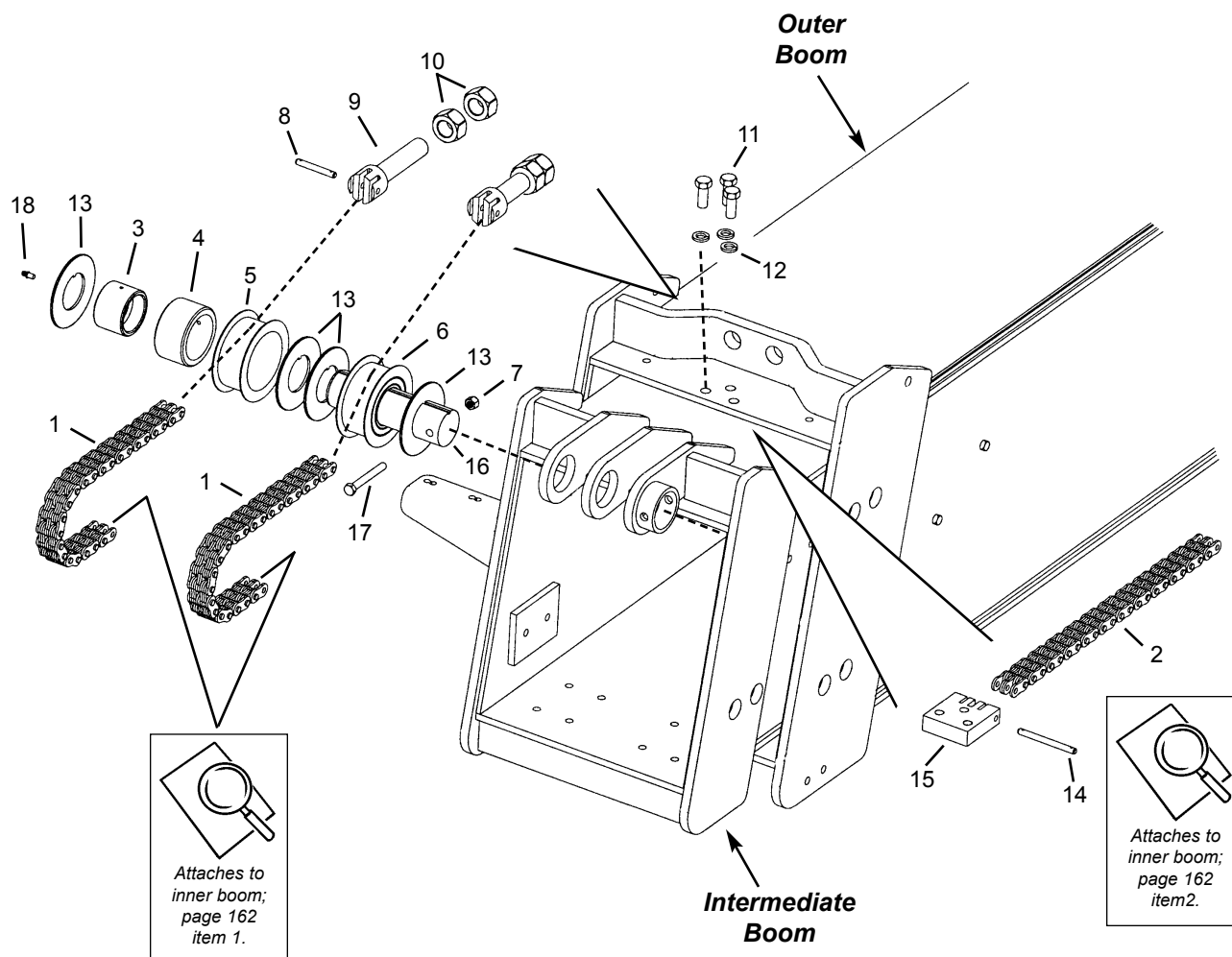
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		INTERMEDIATE BOOM..... 1		07	L61699	2"X3"X1" SLIDE PAD..... 1	
	102282	3-section 42' boom		08	654026	3/8" LOCK WASHER..... 1	
	102285	3-section 44' boom		09	650488	3/8"-16X3/4" BOLT 1	
02	L520004	5/16"-18 NYLON INSERT NUT 2		10	L50056	5/16"-18 FLARE NUT 1	
05	650485	5/16"-18X5/8" BOLT 4					
06		TRAY WELDMENT 1					
	210435	3-section 42' boom					
	105227	3-section 44' boom					



Boom

RS Series

3-Section Boom - Chain and Rollers - Front





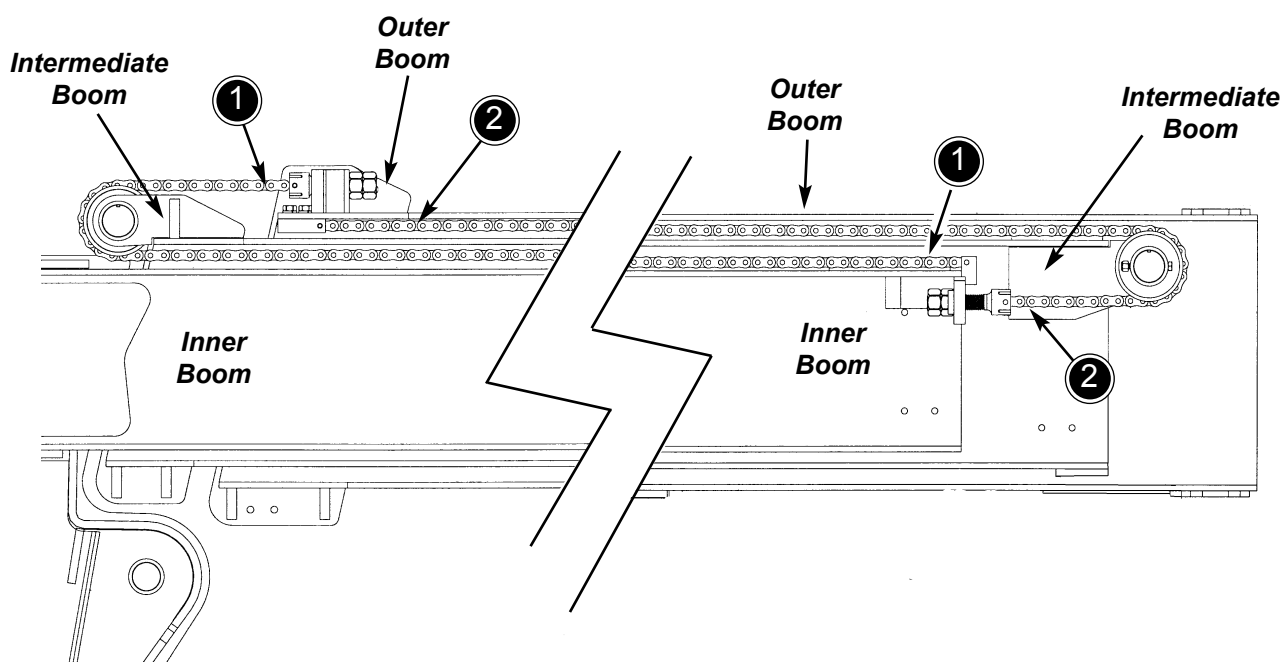
Telescopic Handler

Boom

3-Section Boom - Chain and Rollers - Front

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a		LEAF CHAIN, BOOM	2	10	L50092	1" NUT	4
	102245	3-section 42' boom		11	L50380	1/2" X 1-1/4" BOLT GR8	3
	102246	3-section 44' boom		12	L50152	1/2" LOCK WASHER	3
02 ^a		LEAF CHAIN, BOOM	1	13	L71205	CHAIN SHEAVE WASHER	4
	102245	3-section 42' boom		14	L64468	PIN, LEAF CHAIN	1
	102246	3-section 44' boom			L560003	3/32"X1-1/4" COTTER PIN	2
03	L49619	INNER RING	2	15	L64384	CLEVIS, REMOVABLE	1
04	L49618	ROLLER BEARING	2	16	L71204	PIN, CHAIN SHEAVE	1
05	L64360	CHAIN SHEAVE	2	17	650818	3/8" X 3" BOLT	1
06	NSS	CHAIN SHEAVE ASSEMBLY	NA	18	L10465	GREASE ZERK	1
		(order one of each: items 3-5)					
07	L520005	3/8" NYLON INSERT NUT	1	^a The three-section boom uses a total of three chains; for illustrative purposes the same chains are shown on this page and the next page. When ordering, be careful not to order duplicate quantities.			
08	L64466	PIN, ADJUSTABLE CLEVIS	2				
	L560003	3/32"X1-1/4" COTTER PIN	4				
09	L64359	CLEVIS, ADJUSTABLE	2				

Three-Section Boom

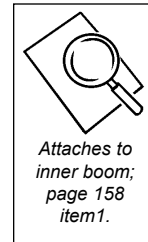
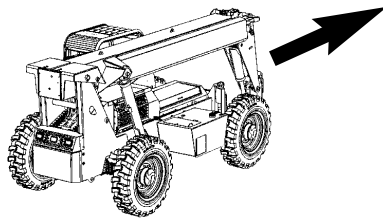




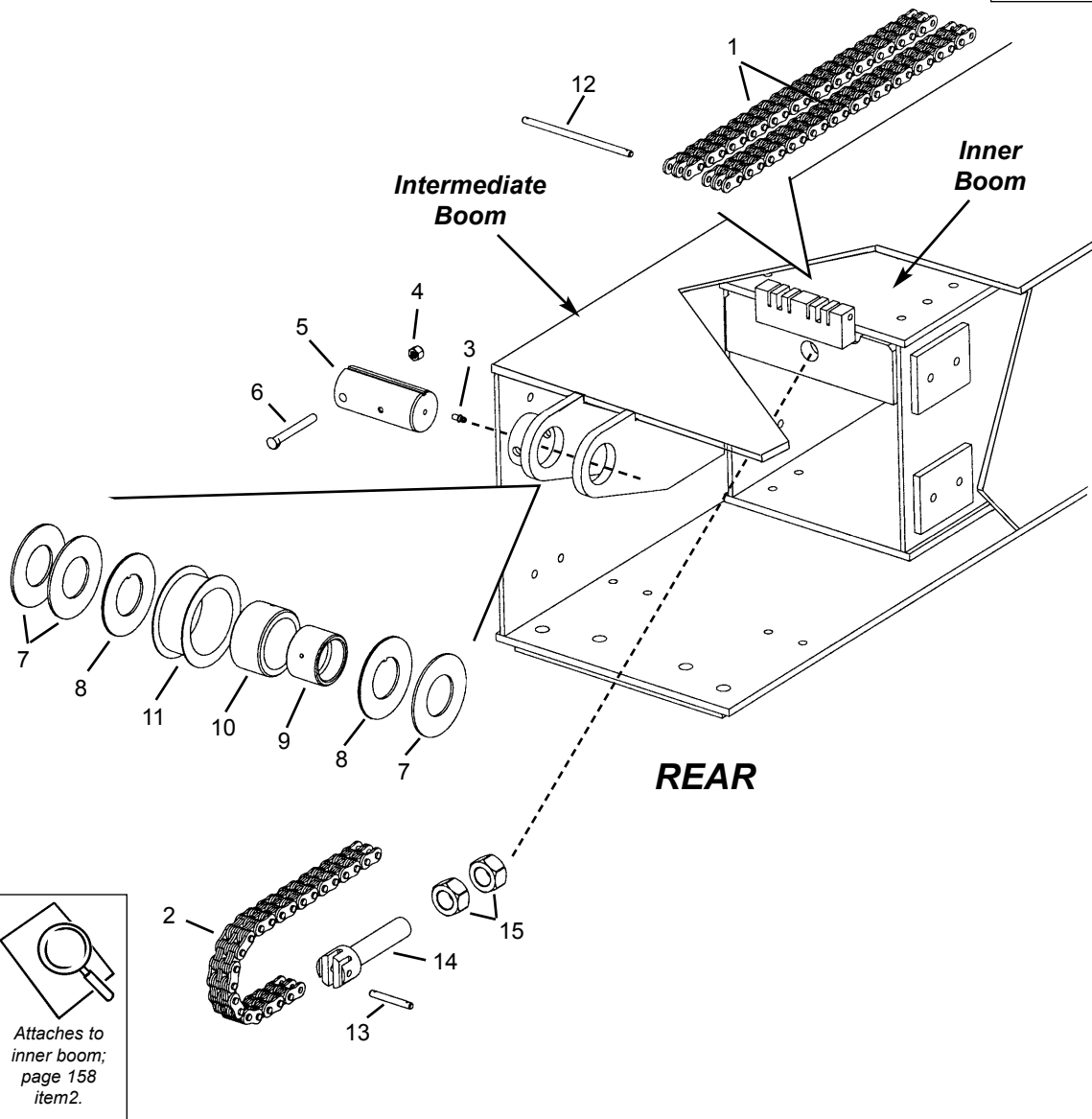
Boom

RS Series

3-Section Boom - Chain and Rollers - Rear



Attaches to
inner boom;
page 158
item1.





Telescopic Handler

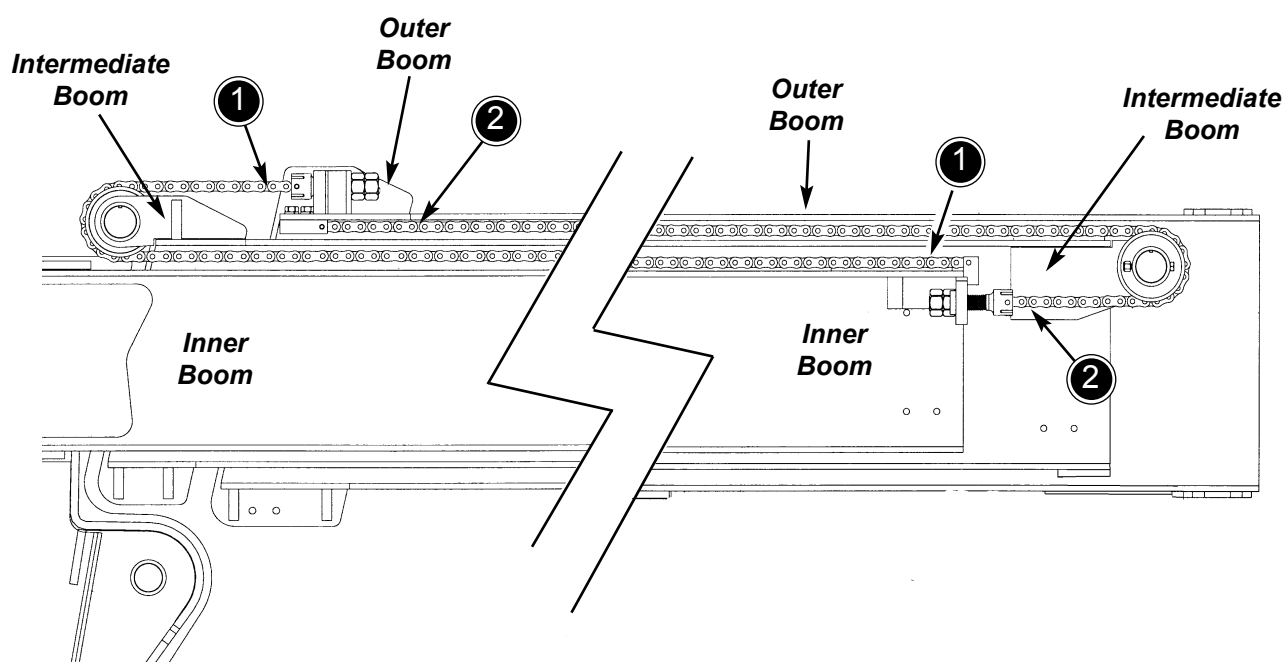
Boom

3-Section Boom - Chain and Rollers - Rear

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a		LEAF CHAIN, BOOM	2	09	L49619	INNER RING	1
	102245	3-section 42' boom		10	L49618	ROLLER BEARING.....	1
	102246	3-section 44' boom		11	L64360	CHAIN SHEAVE	1
02 ^a		LEAF CHAIN, BOOM	1	12	L64467	PIN, FIXED CLEVIS	1
	102245	3-section 42' boom			L560003	3/32X1-1/4 COTTER PIN	2
	102246	3-section 44' boom		13	L64466	CLEVIS PIN.....	1
03	L10465	1/4-28 ZERK, STR.....	1	14	L64359	ADJUSTABLE CLEVIS	1
04	L520005	3/8"-16 NYLON INSERT NUT.....	1	15	L50092	1"-8 NUT	2
05	L71206	PIN, SHEAVE	1				
06	650818	3/8"-16X3 BOLT	1				
07	L400207	THRUST WASHER	3				
08	L71205	CHAIN SHEAVE WASHER	2				

a The three-section boom uses a total of three chains; for illustrative purposes the same chains are shown on this page and the previous page. When ordering, be careful not to order duplicate quantities.

Three-Section Boom

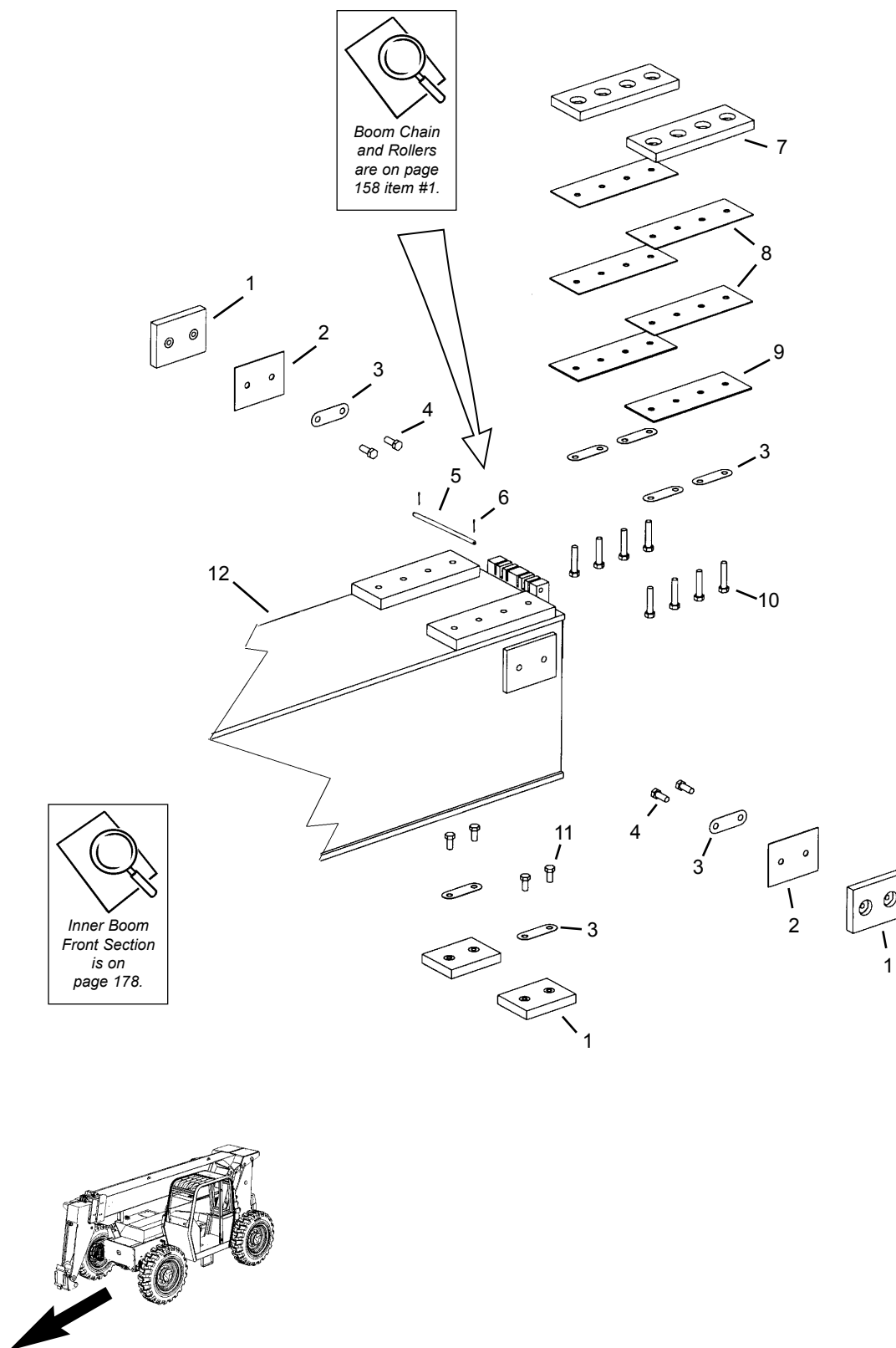




Boom

RS Series

3-Section Inner Boom - Rear





Telescopic Handler

Boom

3-Section Inner Boom - Rear

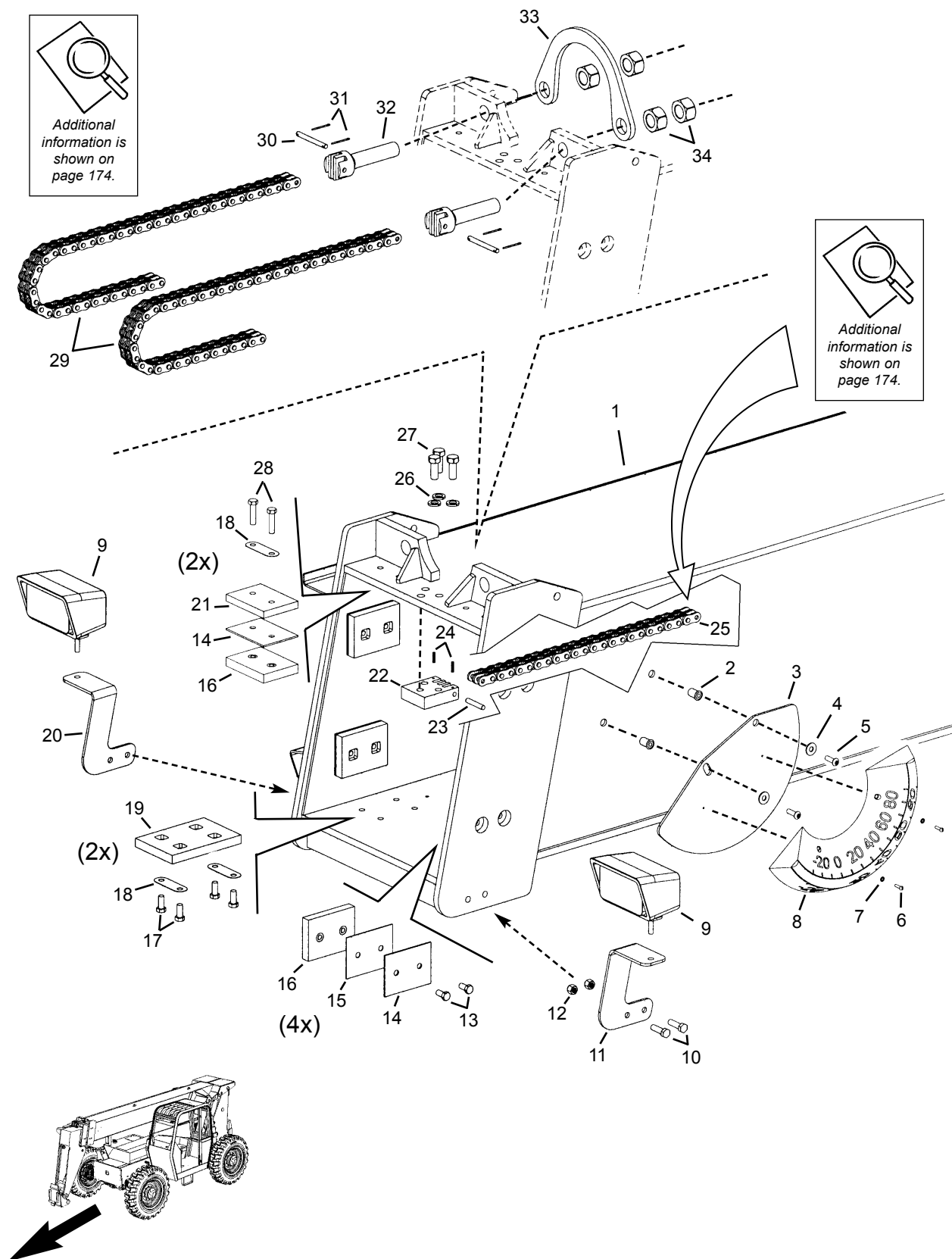
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L61709	SLIDE PAD	4	07	L66780	SLIDE PAD	2
02	L62733	0.06"X3X4" SHIM	2	08	L66782	0.06"X3"X8" SHIM	4
03	L62715	FLAT-BOLT LOCK	8	09	L66783	0.105"X3"X8" SHIM	2
04	L50367	3/8"X1" BOLT	4	10	L50261	3/8"X1-1/2" BOLT	8
05	L64467	PIN, CHAIN REAR LOW INNER. . .	1	11	L50251	3/8"X3/4" BOLT	4
06	L560003	3/32"X1-1/4" COTTER PIN	2	12		INNER BOOM WELDMENT	1
					102283	3-section 42' boom	
					102286	3-section 44' boom	



Boom

RS Series

4-Section Boom - Outer - Front





Telescopic Handler

Boom

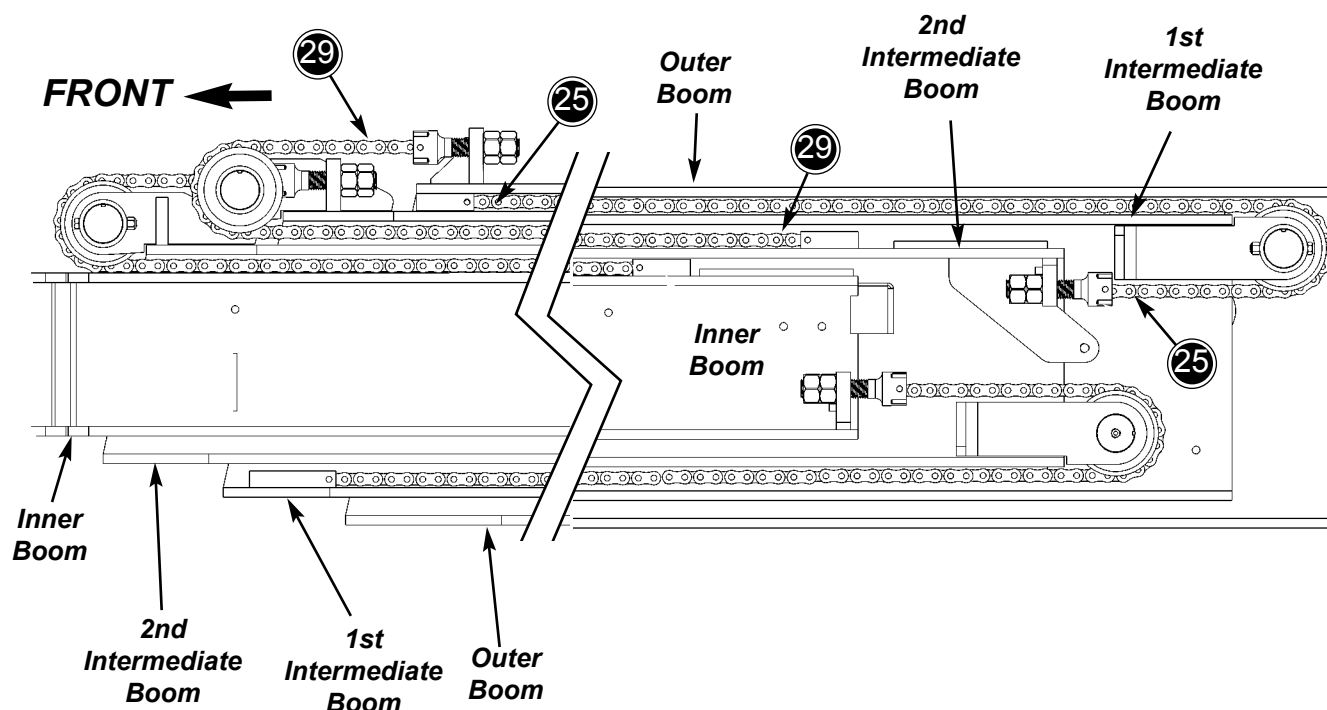
4-Section Boom - Outer - Front

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	210522	OUTER BOOM WELDMENT	1	20	L70635	BOOM LIGHT BRACKET (<i>right</i>) . . .	1
02	L70242	5/16"-18 NUT INSERT	2	21	L64143	SPACER, 1/2"X3"X4"	2
03	L65640	BOOM ANGLE IND. PLATE	1	22	L71004	CLEVIS, FIXED	1
04	650810	5/16" FLAT WASHER	2	23	L71005	PIN, FIXED CLEVIS CHAIN	1
05	L52048	5/16"-18X1" BUTTON HD BOLT . . .	2	24	L71021	#10-24X3/4" SET SCREW	2
06	651271	#8X3/8" RND HD MACH SCREW . . .	2	25 ^a	L71001	CHAIN, LEAF (<i>retract</i>)	1
07	L50136	#10 LOCK WASHER	2	26	654030	1/2" LOCK WASHER	3
08	L65638	INCLINOMETER - ANGLE IND.	1	27	L50380	1/2-20X1-1/4" GRD 8 BOLT	3
09	L70040	WORK LIGHT	2	28	650533	3/8"X1-1/2" BOLT	4
10	650491	3/8"-16X1-1/4" BOLT	4	29 ^a	L71000	CHAIN, LEAF (<i>extend</i>)	2
11	L70639	BOOM LIGHT BRACKET (<i>left</i>)	1	30	L71007	PIN, ADJUSTABLE CLEVIS	2
12	L520005	3/8"-16 NYLON INSERT NUT	4	31	L560003	3/32X1-1/4" COTTER PIN	2
13	650488	3/8"-16X3/4" BOLT	16	32	L71006	CLEVIS, ADJUSTABLE	2
14	L62734	1/8"X3"X4" SHIM	6	33	L70972	RETAINER, EXTEND CYL	1
15	L62733	1/16"X3"X4" SHIM	4	34	L50092	NUT, ADJUSTABLE CLEVIS	AR
16	L61709	SLIDE PAD, 3"X4"	6				
17	L510007	3/8"X7/8" BOLT	8				
18	L62715	FLAT-BOLT LOCK	6				
19	L71020	SLIDE PAD, 4"X6"	2				



NOTE: 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 the incorrect quantities.

Four-Section Boom

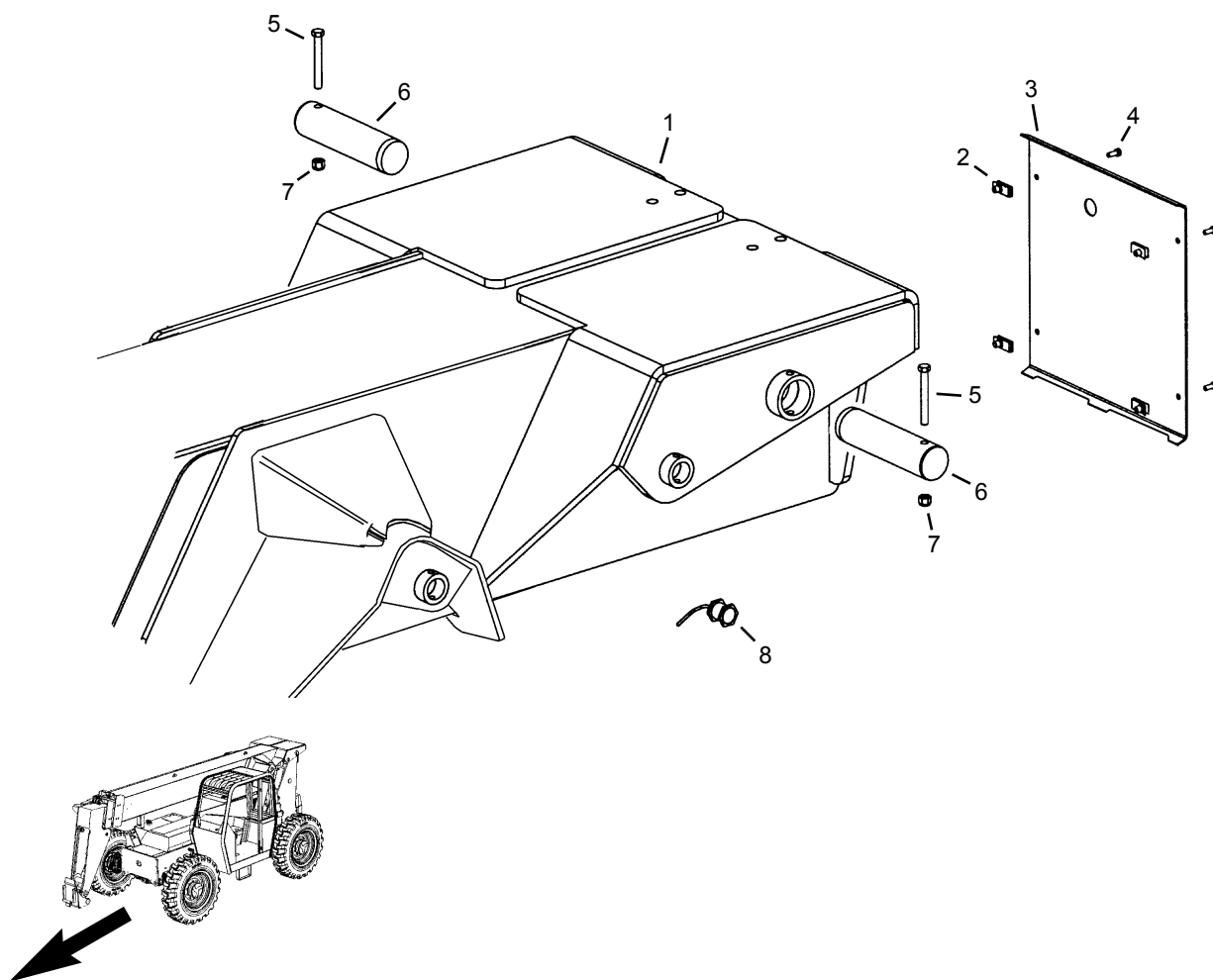




Boom

RS Series

4-Section Boom - Outer - Rear

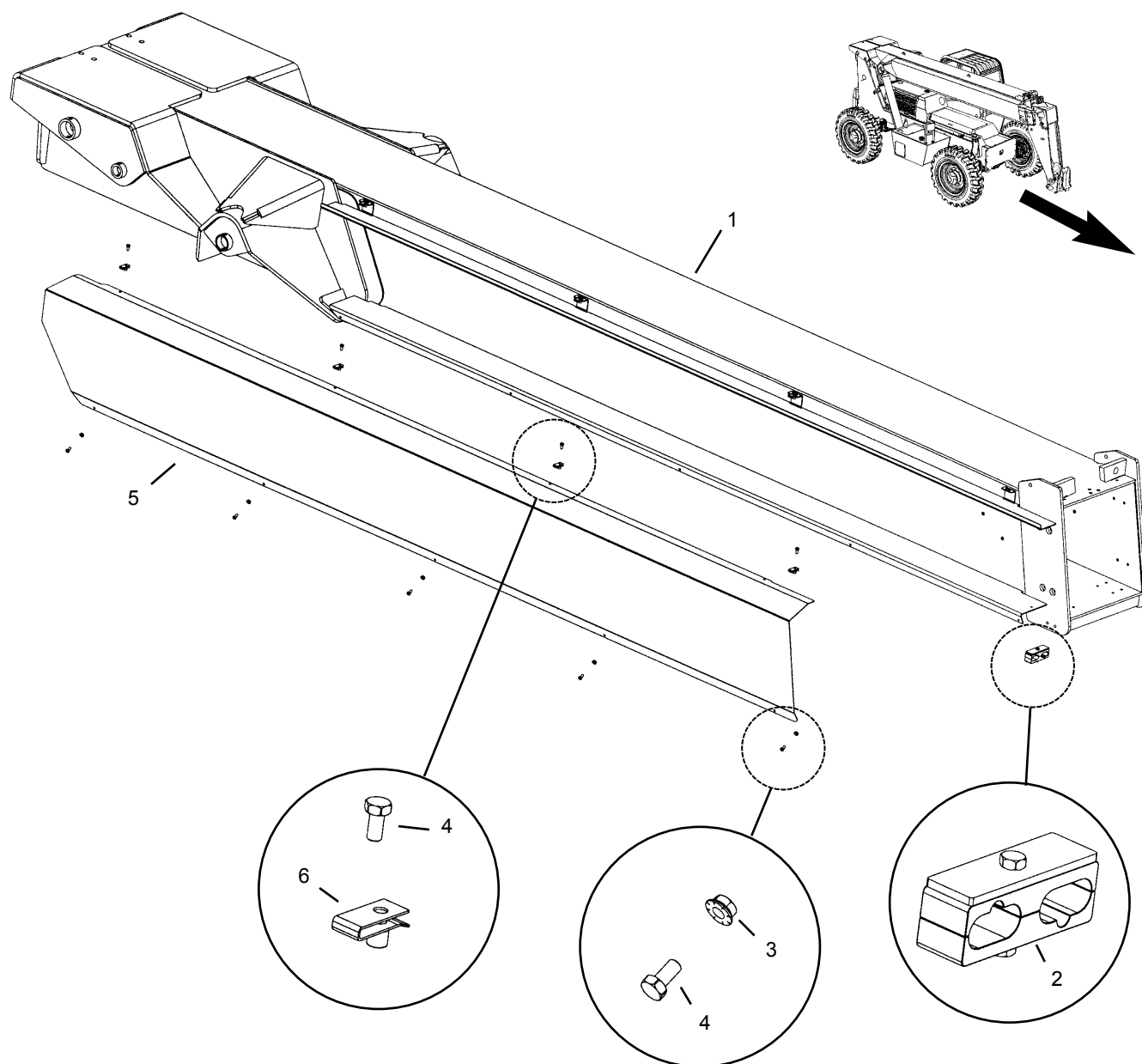


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	210522	OUTER BOOM	1	05	650744	1/2"-13X4" BOLT	2
02	L530004	5/16" RETAINER CLIP	4	06	210291	PIN, BOOM	2
03	210352	COVER, REAR BOOM	1	07	L520019	1/2"-13 NYLON INSERT NUT	2
04	650486	5/16"-18x3/4" BOLT	4	08	L71165	SWITCH, PROXIMITY	1



Telescopic Handler

Boom 4-Section Boom - Outer Side Cover

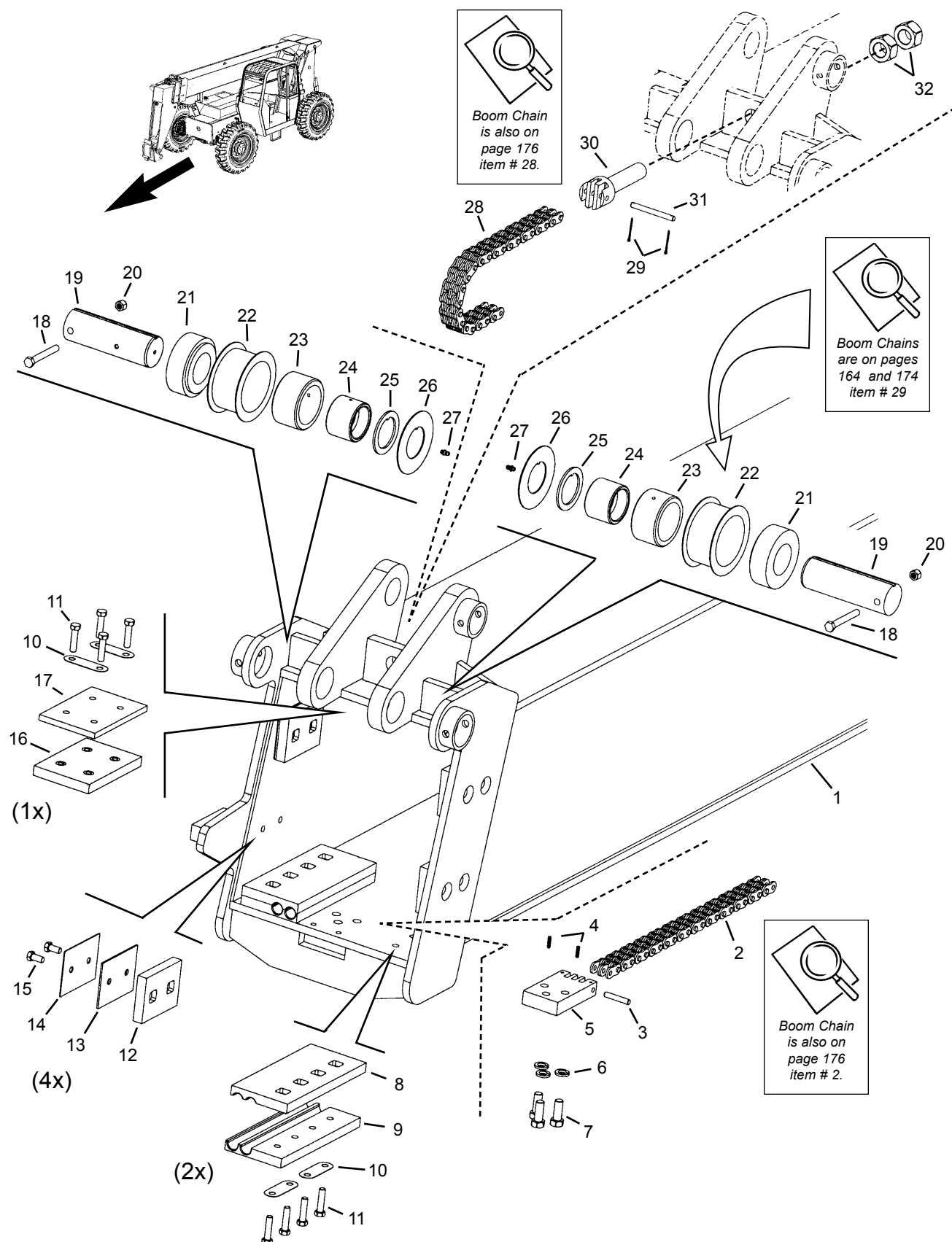


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	210522	OUTER BOOM WELDMENT	1	04	650485	5/16"-18X5/8" BOLT	8
02	L79167	CLAMP ASSEMBLY	1	05	105230	COVER, BOOM SIDE	1
03	L50056	5/16"-18 WHIZ LOCK NUT	4	06	L530004	5/16" FASTENER, RETAINED	4

Boom

4-Section Boom - 1st Intermediate - Front

RS Series





Telescopic Handler

Boom

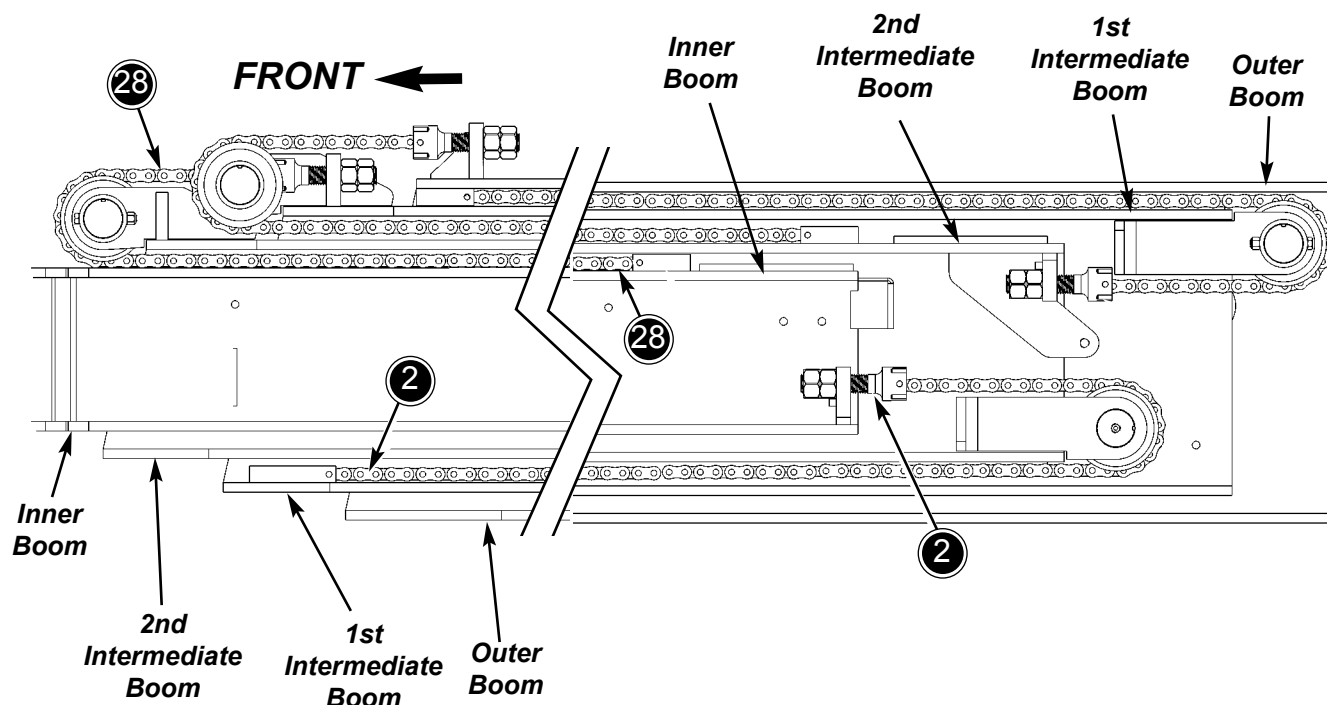
4-Section Boom - 1st Intermediate - Front

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70895	1ST-INTERMEDIATE BOOM.	1	20	L520005	3/8" NYLON INSERT NUT	2
02 ^{ab}	L71001	LEAF CHAIN (<i>retract</i>)	1	21	L71017	SHEAVE SPACER.....	2
03	L71005	FIXED CHAIN PIN.....	1	22	L71008	CHAIN SHEAVE	2
04	L71021	#10-24X3/4" SET SCREW	2	23	L49618	ROLLER BEARING.....	2
05	101028	FIXED CLEVIS	1	24	L49619	INNER RING	2
06	654030	1/2" LOCK WASHER.....	3	25	L71245	SPACER	2
07	L50380	1/2"-20X1-1/4" BOLT GR8.....	3	26	L71214	THRUST WASHER.....	2
08	210760	SLIDE PAD W/CLAMP	2	27	570019	GREASE ZERK, STR. 1/4"-28	2
09	210759	SPACER PAD W/CLAMP	2	28 ^a	101212	LEAF CHAIN (<i>extend</i>).....	1
10	L62715	BOLT FLAT LOCK.....	6	29	L560003	3/32"X1-1/4" COTTER PIN	2
11	650533	3/8"-16X1"-1/2 BOLT.....	12	30	L71006	ADJUSTABLE CLEVIS	1
12	L61709	SLIDE PAD 3"X4"	4	31	L71007	CHAIN PIN	1
13	L62734	SHIM 0.105"X3"X4"	4	32	L50092	HEX NUT 1"-8	2
14	L62733	SHIM 0.06"X3"X4"	4				
15	650488	3/8"X3/4" BOLT	8				
16	L71020	TOP SLIDE PAD 4X6	1				
17	L64133	SPACER 3/8"X4"X6"	1				
18	650818	3/8"-16X3" BOLT	2				
19	L71212	SHEAVE PIN.....	2				



NOTE: 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 the incorrect quantities.

Four-Section Boom

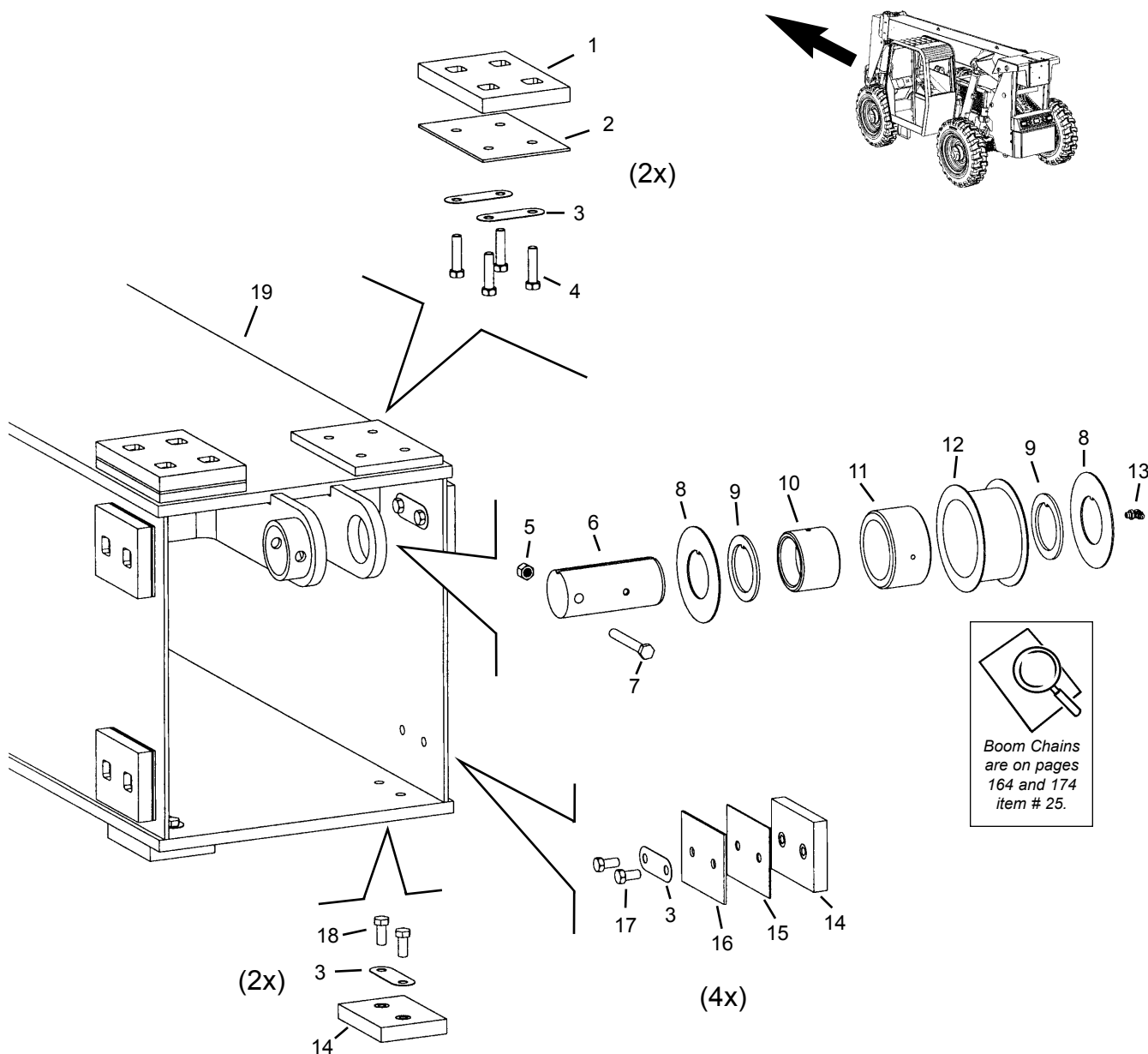




Boom

RS Series

4-Section Boom - 1st Intermediate - Rear



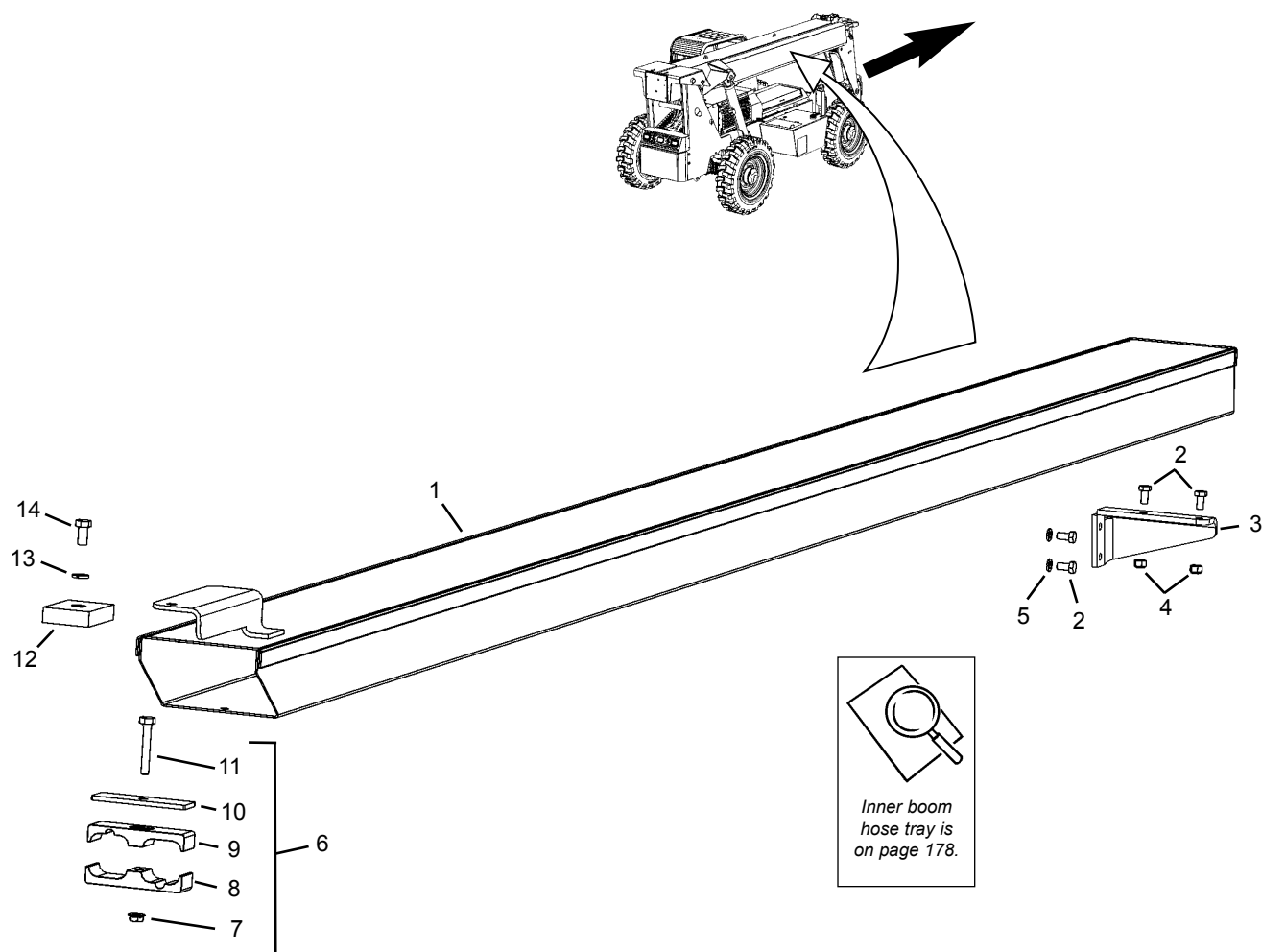
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L71020	TOP SLIDE PAD 4"X6"	1	11	L49618	ROLLER BEARING	1
02	L62732	SHIM 1/8"X4"X6"	1	12	L71008	CHAIN SHEAVE	1
03	L62715	BOLT FLAT LOCK	10	13	076002	GREASE ZERK 90°	1
04	650533	3/8"-16X1"-1/2 BOLT	8	14	L61709	SLIDE PAD 3"X4"	6
05	L520005	3/8" NYLON INSERT NUT	2	15	L62733	SHIM 0.06"X3"X4"	4
06	L71206	SHEAVE PIN, REAR	1	16	L62734	SHIM 0.105"X3"X4"	4
07	650818	3/8"-16X3" BOLT	2	17	650488	3/8"X3/4" BOLT	8
08	L71214	THRUST WASHER	2	18	L510007	3/8"X7/8" BOLT	4
09	L71245	SPACER	2	19	L70895	1ST-INTERMEDIATE BOOM.	1
10	L49619	INNER RING	1				



Telescopic Handler

Boom

4-Section Boom - 1st Intermediate - Hose Tray



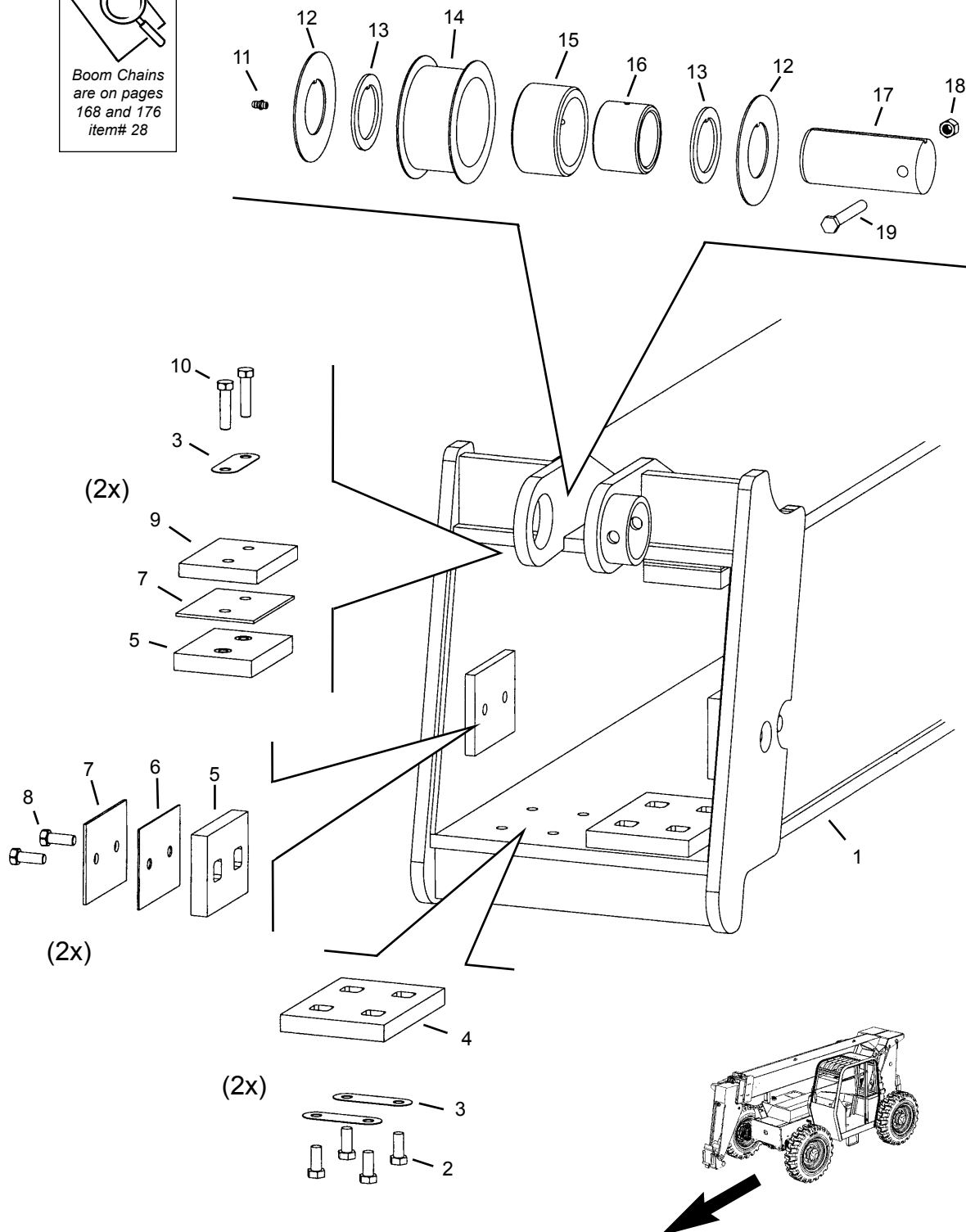
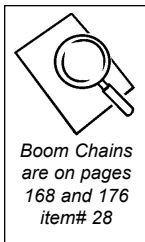
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70963	HOSE TRAY, INTERMEDIATE	1	08	L71747	CLAMP W/INSERT	1
02	650485	CS 5/16x5/8" C5ZY	4	09	L71705	CLAMP	1
03	L69524	BRACKET, INTERMEDIATE TRAY .	1	10	L71748	PLATE, CLAMP TOP.	1
04	L520004	LN INST 5/16-18	2	11	L51035	CS 5/16"-18x2" C5ZY	1
05	654024	LW 5/16"	2	12	L61699	PAD, SLIDE.	1
06	L79167	HOSE RETAINER ASSEMBLY	1	13	654026	LW 3/8" RZY	1
		(includes items 7-11)		14	650488	CS 3/8"x3/4" C5ZY	1
07	L50056	FL LN 5/16"-18	1				



Boom

RS Series

4-Section Boom - 2nd Intermediate - Front



**Telescopic Handler****Boom****4-Section Boom - 2nd Intermediate - Front**

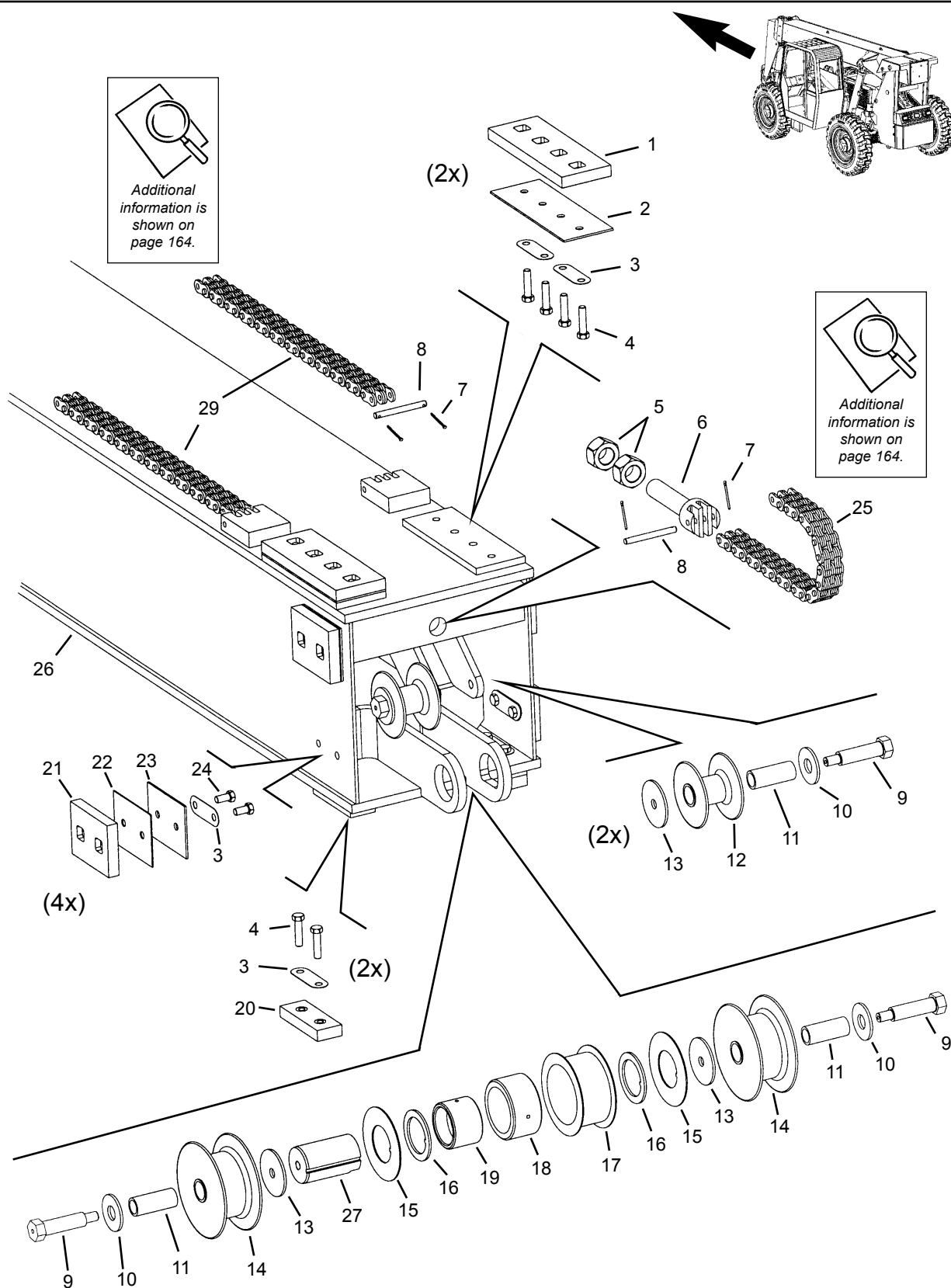
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70912	2ND-INTERMEDIATE BOOM.....	1	11	570019	GREASE ZERK.....	1
02	L510007	3/8"X7/8" BOLT	4	12	L71214	THRUST WASHER.....	2
03	L62715	BOLT FLAT LOCK.....	6	13	L71245	SPACER	2
04	L71020	SLIDE PAD 4"X6"	2	14	L71008	CHAIN SHEAVE	1
05	L61709	SLIDE PAD 3"X4"	6	15	L49618	ROLLER BEARING.....	1
06	L62733	SHIM 0.06"X3"X4"	4	16	L49619	INNER RING	1
07	L62734	SHIM 0.105"X3"X4"	6	17	L71206	SHEAVE PIN, REAR.....	1
08	650490	3/8"X1" BOLT.....	4	18	L520005	3/8" NYLON INSERT NUT	1
09	L64143	SPACER 1/2"X3"X4.....	2	19	650818	3/8"-16X3" BOLT	1
10	650533	3/8"-16X1"-1/2 BOLT	4				



Boom

RS Series

4-Section Boom - 2nd Intermediate - Rear





Telescopic Handler

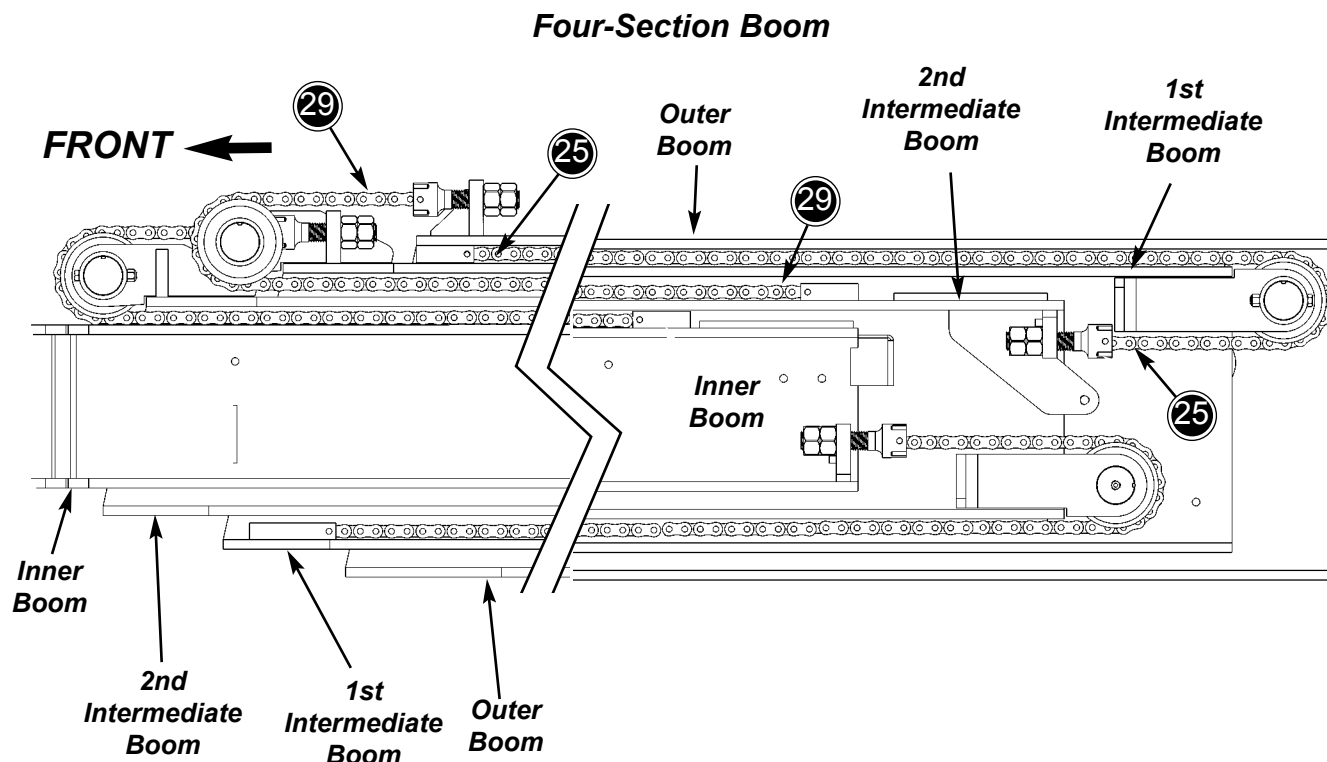
Boom

4-Section Boom - 2nd Intermediate - Rear

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L71011	SLIDE PAD 3"x8"	2	18	L49618	ROLLER BEARING	1
02	L66783	SHIM 0.125"x3"x8"	2	19	L49619	INNER RING	1
03	L62715	BOLT FLAT LOCK	10	20	L71003	SLIDE PAD 1-1/2"x4"	2
04	650533	3/8"x1-1/2" BOLT	12	21	L61709	SLIDE PAD 3"x4"	4
05	L50092	NUT, ADJUSTABLE CLEVIS	AR	22	L62733	SHIM 0.06"x3"x4"	4
06	L71006	CLEVIS, ADJUSTABLE	2	23	L62734	SHIM 0.105"x3"x4"	4
07	L560003	3/32"x1-1/4" COTTER PIN	4	24	650488	3/8"x1" BOLT	8
08	L71007	PIN, ADJUSTABLE CLEVIS	4	25 ^a	L71001	CHAIN, LEAF (<i>retract</i>)	1
09	L71016	BOLT, HOSE RETAINER	4	26	L70912	2ND-INTERMEDIATE BOOM	1
10	654014	3/4" WASHER	4	27	L71213	PIN, SHEAVE	1
11	L71389	SPACER	4	29 ^a	L71000	CHAIN, LEAF (<i>extend</i>)	2
12	L71010	HOSE GUIDE (<i>upper</i>)	2				
13	L71014	WASHER, SHEAVE PIN	4				
14	L71347	HOSE GUIDE (<i>lower</i>)	2				
15	L71214	THRUST WASHER	2				
16	L71245	SPACER	2				
17	L71008	CHAIN SHEAVE	1				



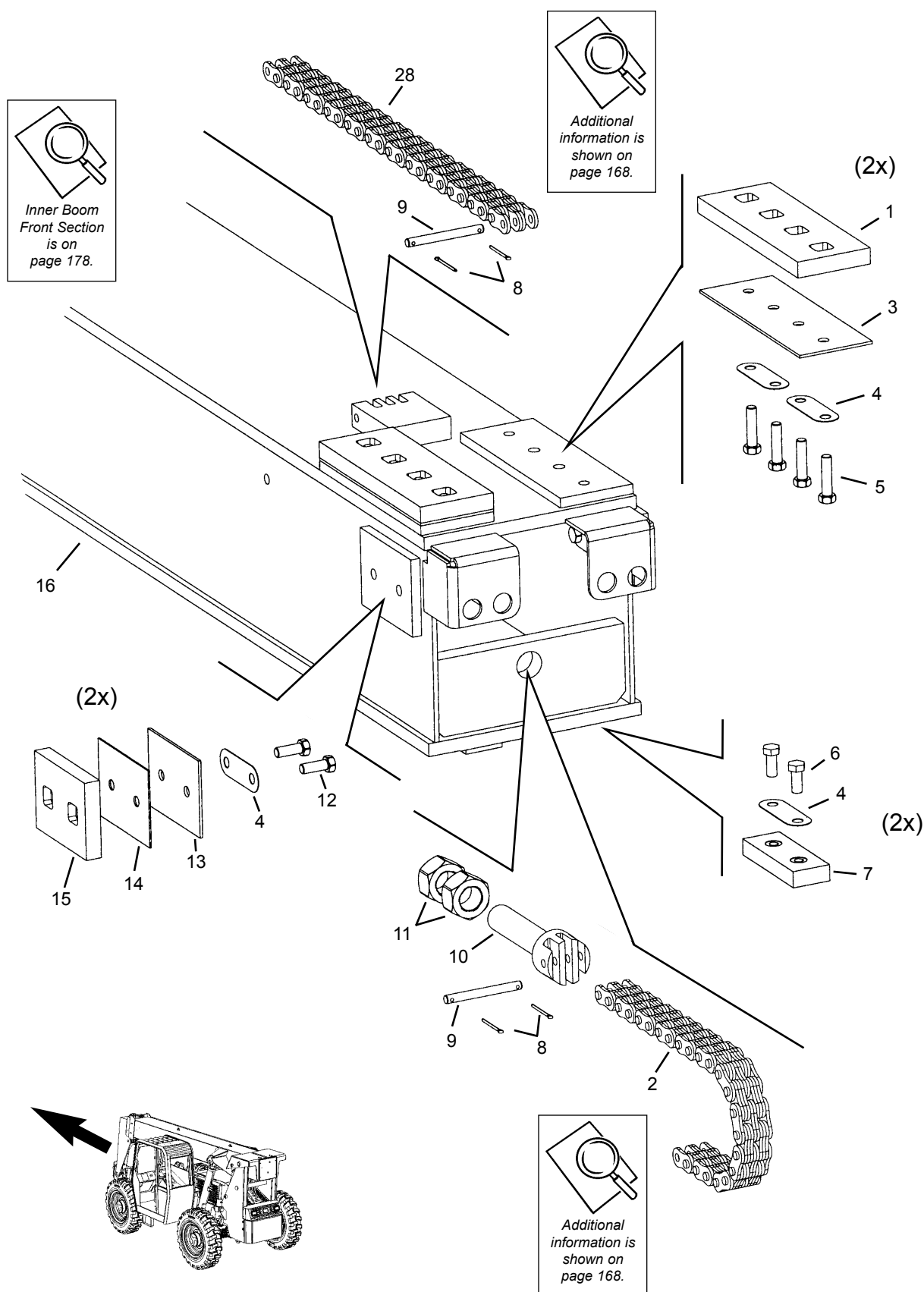
NOTE: This parts manual shows the same chain(s) on multiple pages. Before ordering chains, refer to the illustration below to avoid ordering the incorrect chain(s) or the incorrect quantities.



Boom

4-Section Boom - Inner - Rear

RS Series





Telescopic Handler

Boom

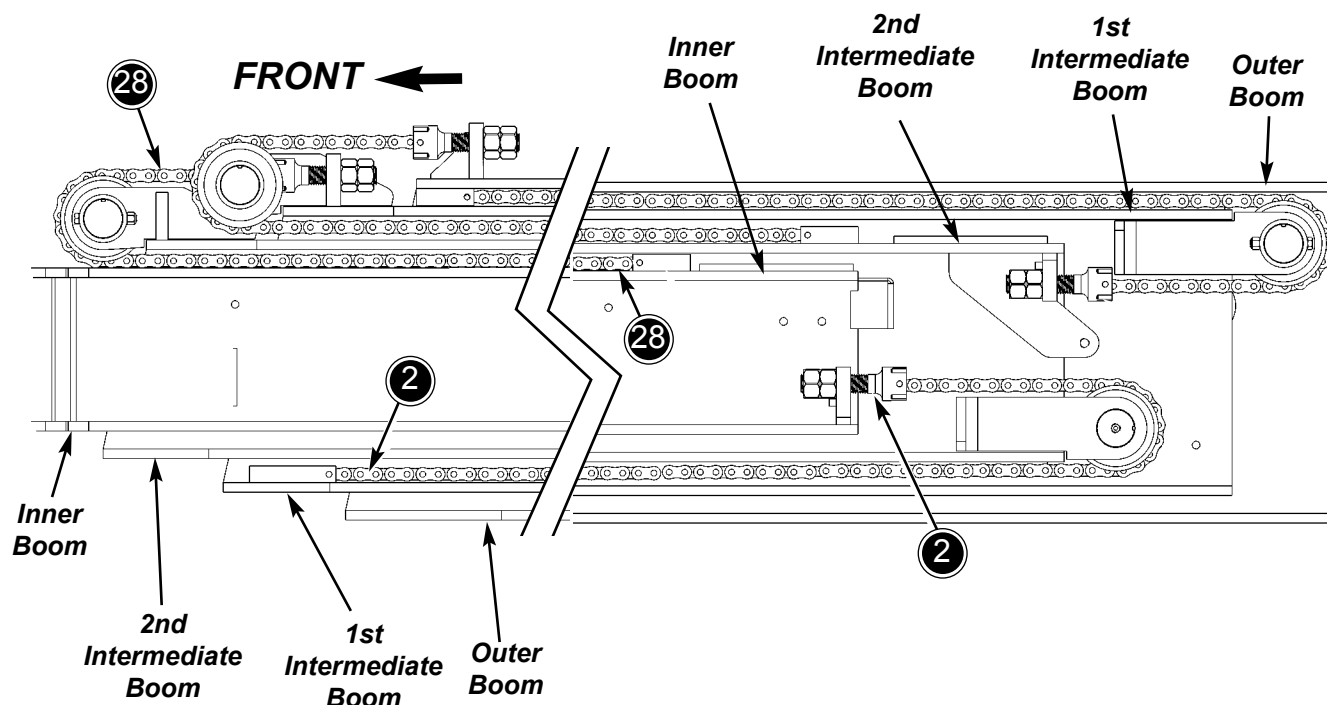
4-Section Boom - Inner - Rear

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L71011	SLIDE PAD 3"X8"	2	13	L62733	SHIM 0.06"X3"X4"	4
02 ^a	L71001	LEAF CHAIN (<i>retract</i>)	1	14	L62734	SHIM 0.105"X3"X4"	4
03	L66783	SHIM 0.125"X3"X8"	2	15	L61709	SLIDE PAD 3"X4"	4
04	L62715	BOLT FLAT LOCK	8	16	100119	INNER BOOM.	1
05	650533	3/8"-16X1"-1/2 BOLT	8	28 ^a	101212	LEAF CHAIN (<i>extend</i>)	1
06	L510007	3/8"-16X7/8" BOLT	4				
07	L71003	SLIDE PAD 1-1/2"X4"	2				
08	L560003	3/32"X1-1/4" COTTER PIN	2				
09	L71007	CHAIN PIN	1				
10	L71006	ADJUSTABLE CLEVIS	1				
11	L50092	HEX NUT 1"-8	2				
12	650490	3/8"-16X1" BOLT	4				



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Four-Section Boom

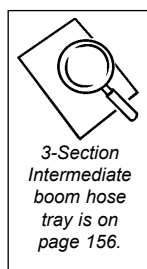




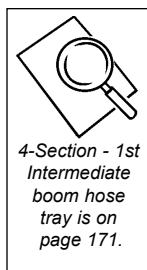
Boom

RS Series

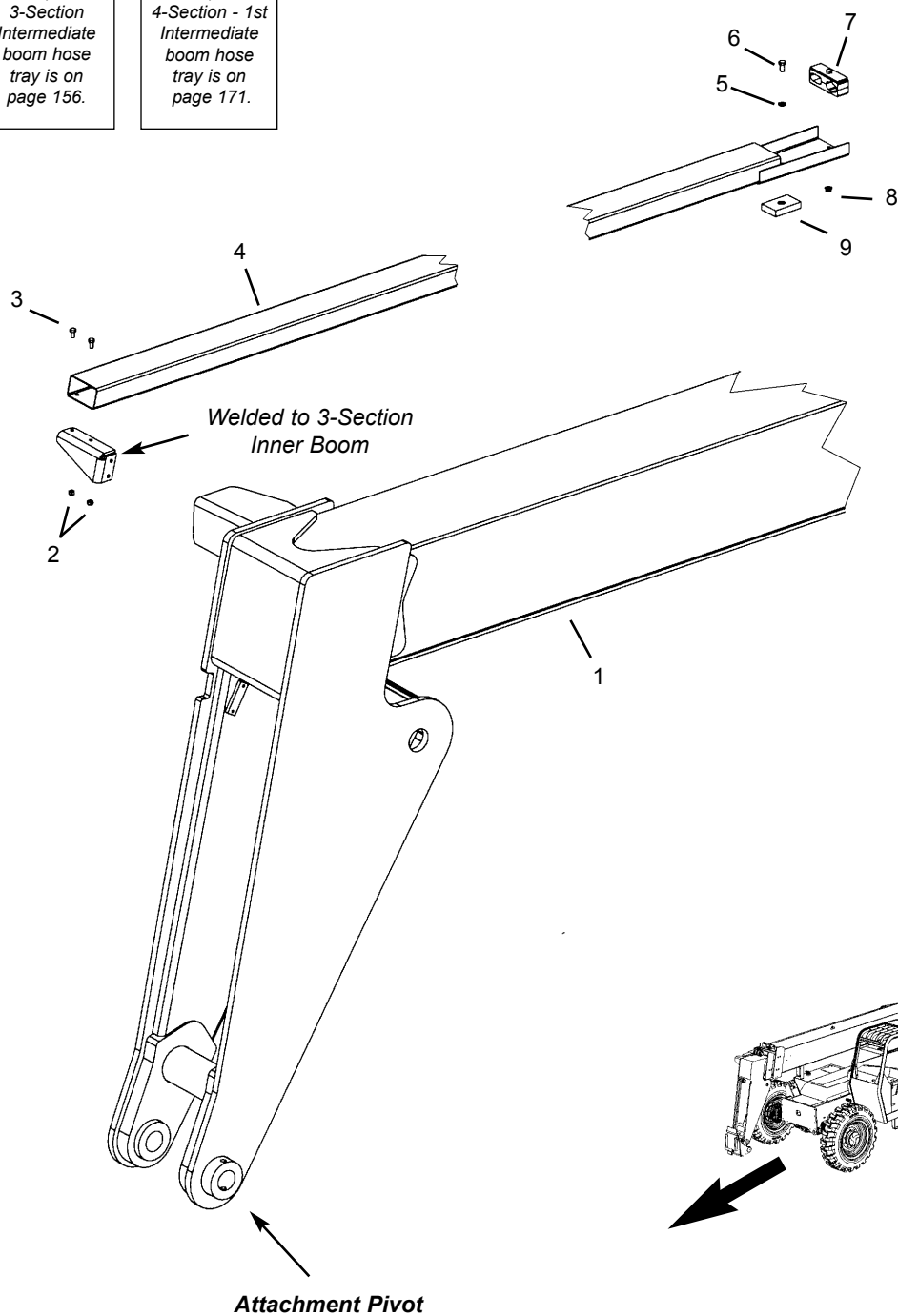
3- and 4-Section Boom - Inner - Front



3-Section
Intermediate
boom hose
tray is on
page 156.



4-Section - 1st
Intermediate
boom hose
tray is on
page 171.





Telescopic Handler

Boom

3- and 4-Section Boom - Inner - Front

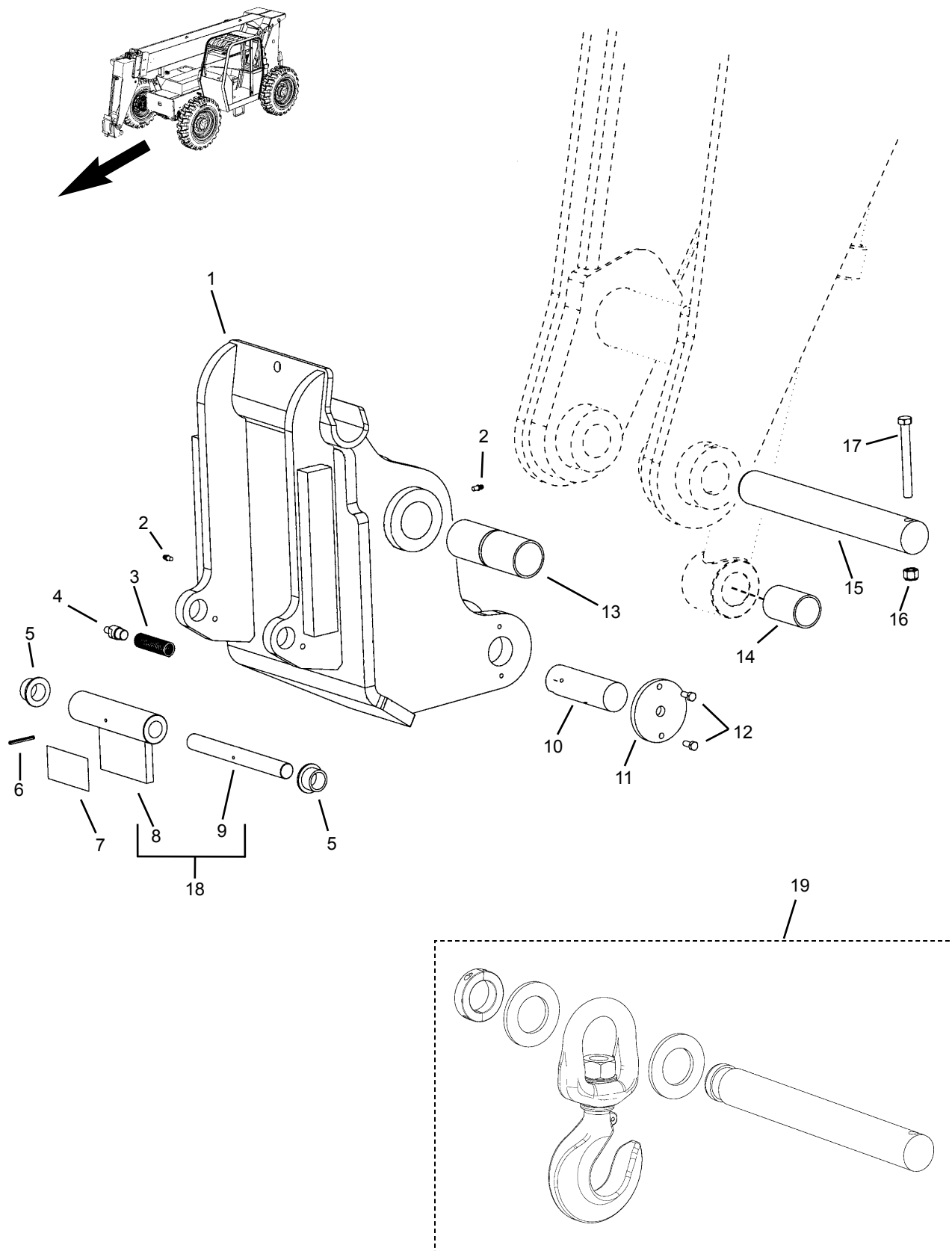
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		INNER BOOM WELDMENT	1	04 ^a		INNER BOOM HOSE TRAY	1
	102283	3-Section 42' boom			210438	3-Section 42' boom	
	102286	3-Section 44' boom			105229	3-Section 44' boom	
	100119	4-Section 55' boom		05	654026	3/8" LOCK WASHER	1
02	L520004	5/16"-18 NYLON INSERT NUT	2	06	650488	3/8"-16X3/4" BOLT	1
03	650485	5/16"-18X5/8" BOLT	4	07	L79167	HOSE CLAMP ASSEMBLY	1
				08	L50056	5/16"-18 FLARE NUT	1
				09	L61699	SLIDE PAD, 1"X2"X3"	1

a The 4-section boom does not have an inner boom hose tray.



Boom Dynattach® Assembly

RS Series





Telescopic Handler

Boom Dynattach® Assembly

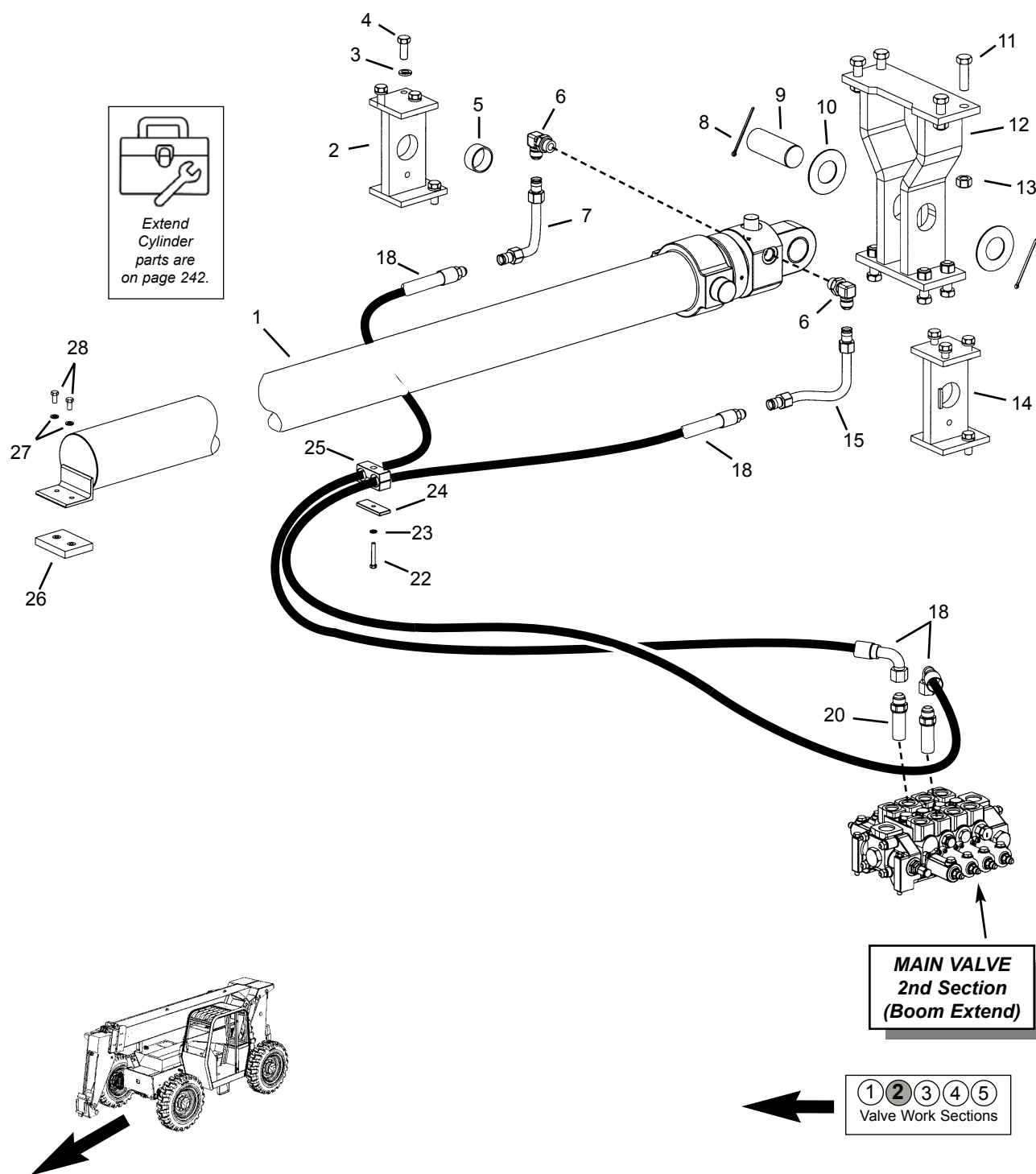
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	101055	DYNATTACH® WELDMENT	1	15		PIN, DYNATTACH PIVOT	1
		<i>(includes item 5 and 13)</i>			102371	For 42' and 44' Booms	
02	L10465	1/4" -28 STR GREASE ZERK	2		100118	For 55' Boom	
03	L65097	LOCK SPRING	1	16	L520019	1/2"-13 NYLON INSERT NUT	1
04	L65098	SPRING MOUNT	1	17	L50986	1/2"-13X4-1/2" BOLT GR8	1
05	L66456	BUSHING	2	18	L66453	LOCK AND PIN ASSEMBLY	1
06	L50646	3/16"X1-3/4" ROLL PIN	1			<i>(includes items 8 and 9)</i>	
07	L66613	DECAL, DYNATTACH UNLOCKED	1	19		KIT, LIFTING HOOK <i>(option)</i>	1
08 ^a	NSS	LOCK WELDMENT	1		50381196	For 42' and 44' booms	
09 ^a	NSS	PIN	1		50381154	For 55' boom	
10	L69727	PIN, TILT CYLINDER	1				
11	L69724	PIN CAP	1				
12	650486	5/16"X3/4" BOLT	2				
13	101351	BUSHING	1				
14	L99889	BUSHING, TILT CYL. <i>(rod end)</i>	1	a		Not sold separately; order item #18 P/N L66453 Lock and Pin Assembly.	



Boom Hydraulics

RS Series

3-Section Boom - Boom Extend/Retract





Telescopic Handler

Boom Hydraulics

3-Section Boom - Boom Extend/Retract

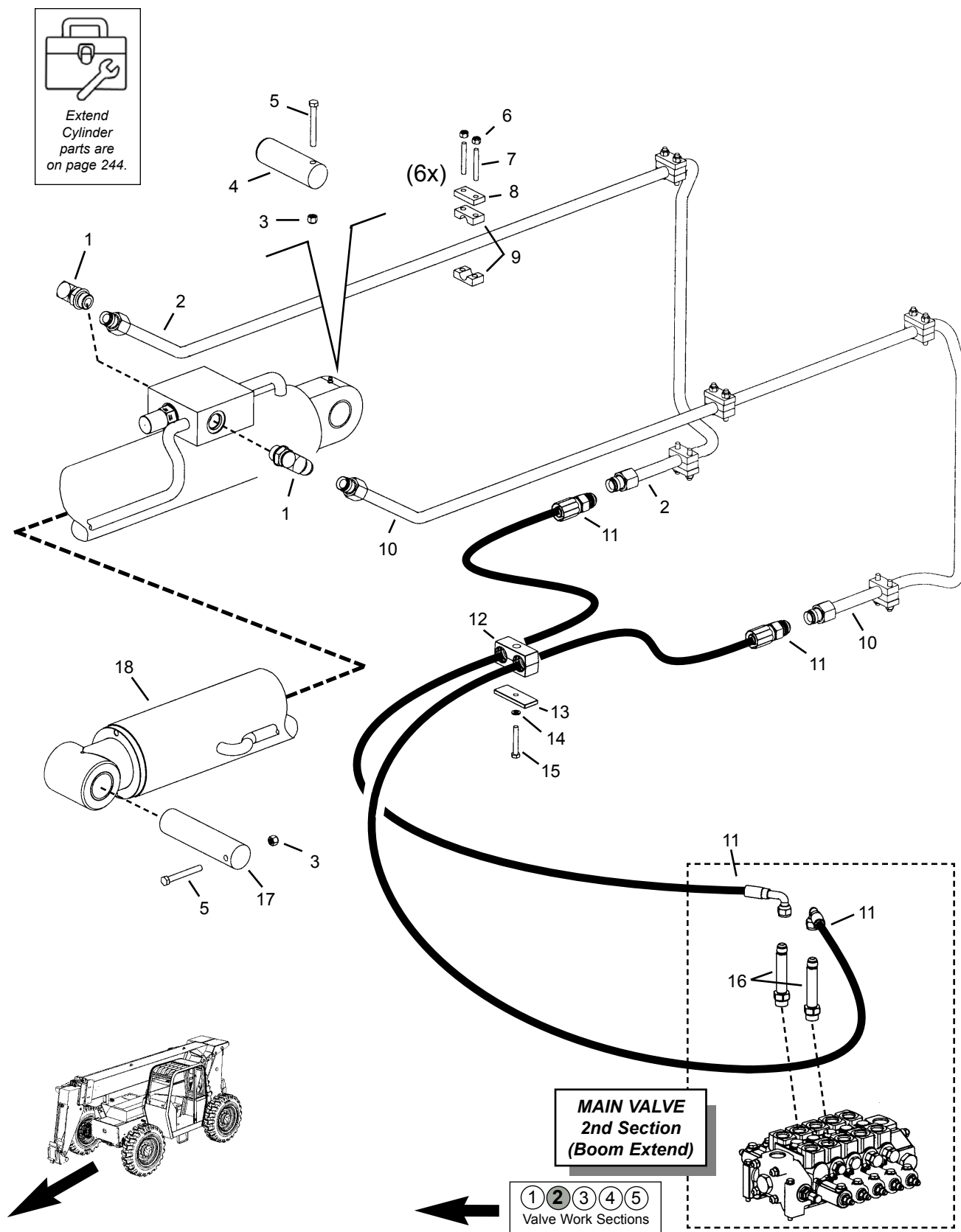
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		EXTEND CYLINDER.....	1	12	102335	WELDMENT, EXTEND CYL MNT..	1
	102543	3-Section 42' boom			L70420	TRUNNION SHIM (<i>not shown</i>)...	1
	102544	3-Section 44' boom		13	L50519	3/4-10 NYLON INSERT NUT	8
02	L64661	TRUNNION MOUNT (RH).....	1	14	L64443	TRUNNION MOUNT (LH).....	1
		(includes item 5)				(includes item 5)	
03	L50156	5/8" LOCK WASHER.....	10	15	102540	EXTEND CYLINDER TUBE (LH) ..	1
04	L50313	5/8-11x1-1/2" BOLT	10	18	210429	HOSE, -12 H12/DS12 50".....	2
05	L48805	BUSHING 2.0" ID X 1.0" LENGTH.	2	20	188973	ADAP., -12ORM -12JICM STR LNG.	2
06	055005	ADAP., -12ORM -12JICM 90°	2	22	L50835	5/16"-18X2 GR5 BOLT	1
07	102541	EXTEND CYLINDER TUBE (RH) ..	1	23	654024	5/16" FLAT WASHER	1
08	L50608	3/16X4" COTTER PIN.....	2	24	102517	PLATE, TOP CLAMP.....	1
09	L69994	EXTEND CYLINDER PIN	1	25	102516	CLAMP BODY TWIN CUSHION...	1
10	L400207	THRUST WASHER	2	26	L61709	SLIDE PAD	1
11	650711	3/4-10X3" BOLT.....	8	27	654026	3/8" LOCK WASHER.....	2
				28	650488	3/8"-16X3/4" BOLT	2



Boom Hydraulics

RS Series

4-Section Boom - Boom Extend/Retract





Telescopic Handler

Boom Hydraulics

4-Section Boom - Boom Extend/Retract

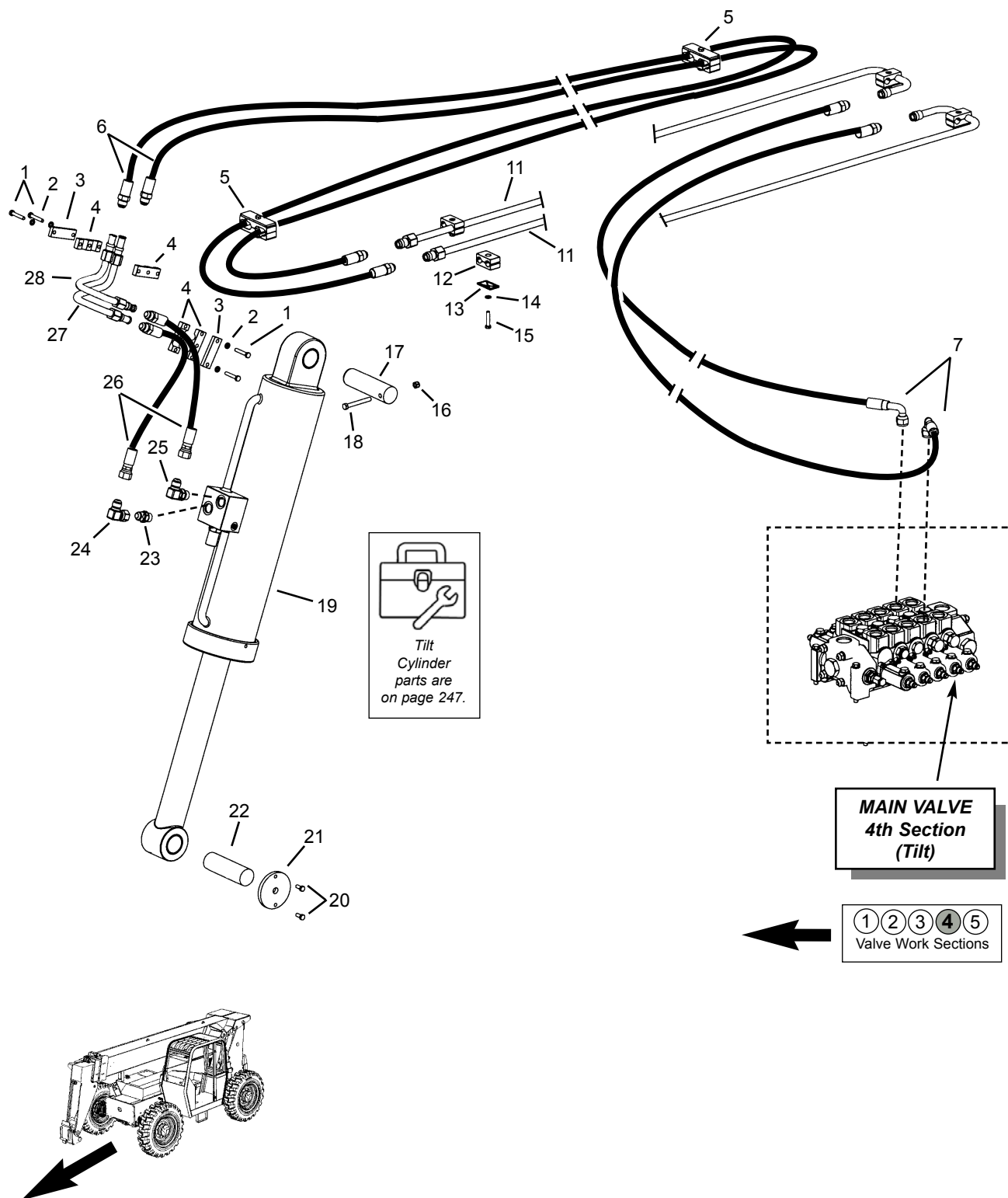
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	055005	ADAP., -12ORM -12JICM 90°	2	10	210348	EXTEND CYLINDER TUBE (<i>left</i>) . .	1
02	210327	EXTEND CYLINDER TUBE (<i>right</i>) .	1	11	210429	HOSE, -12 H12/DS12 50"	2
03	L520005	3/8" NYLON INSERT NUT	2	12	102516	CLAMP BODY TWIN CUSHION . .	1
04	L70964	PIN, EXTEND CYL. (<i>base end</i>) . . .	1	13	102517	PLATE, TOP CLAMP	1
05	650818	3/8"X3" BOLT	2	14	654024	5/16" FLAT WASHER	1
06	L520004	5/16" NYLON INSERT NUT	12	15	L50835	5/16"-18X2 GR5 BOLT	1
07	L50877	5/16"X2-1/4" STUD	12	16	188973	ADAP., -12ORM -12JICM STR LNG.2	
08	L67446	PLATE	6	17	L64559	PIN, EXTEND CYL. (<i>rod end</i>)	1
09	L70270	TUBE CUSHION	6	18	L71024	EXTEND CYLINDER (<i>RS10-55</i>) . .	1



Boom Hydraulics

3-Section Boom -Tilt

RS Series





Telescopic Handler

Boom Hydraulics

3-Section Boom - Tilt

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L50561	5/16"-18X1-3/4" BOLT	AR	21	L69724	PIVOT PIN CAP	1
02	654024	5/16" FLAT WASHER	AR	22	L69727	PIN, TILT CYL ROD END	1
03	L63715	HOSE CUSHION TOP PLATE	2	23	072580	ADAP., -10ORM -10JICM STR.	1
04	L68039	TUBE CUSHION DBL 5/8"	4	24	065415	ADAP., -10JICFS -10JICM 90°	1
05	L79167	HOSE CLAMP ASSEMBLY	2	25	067761	ADAP., -10ORM -10JICM 90°	1
06	<i>Note a</i>	BOOM HOSES. <i>(see note for qty.)</i>		26	L70088	HOSE, -8 A10/H10 20"	2
07	210428	HOSE, -10 H10/DS10 52"	2	27	L69449	TILT CYLINDER TUBE	1
11 ^b	210292	TILT CYLINDER TUBE	2	28	L69450	TILT CYLINDER TUBE	1
12	L69832	CLAMP, DBL TUBE .62"	6				
13	L69833	PLATE, TOP DBL CUSHION.	6				
14	654024	5/16" FLAT WASHER	6				
15	L50842	3/8"-16X1-1/2" BOLT	6				
16	L520005	3/8" NYLON INSERT NUT	1				
17	L69601	PIN, TILT CYL BASE END	1				
18	650818	3/8"-16X3" BOLT	1				
19	L69144	TILT CYLINDER	1				
20	650486	5/16"-18X3/4" BOLT	2				

*a (42' boom);
Uses (1) L500784 protective sleeve and
(2) 210502 Hose, -8 H10/H10 350".*

*a (44' boom);
Uses (1) L500784 protective sleeve and
(2) 210503 Hose, -8 H10/H10 370".*

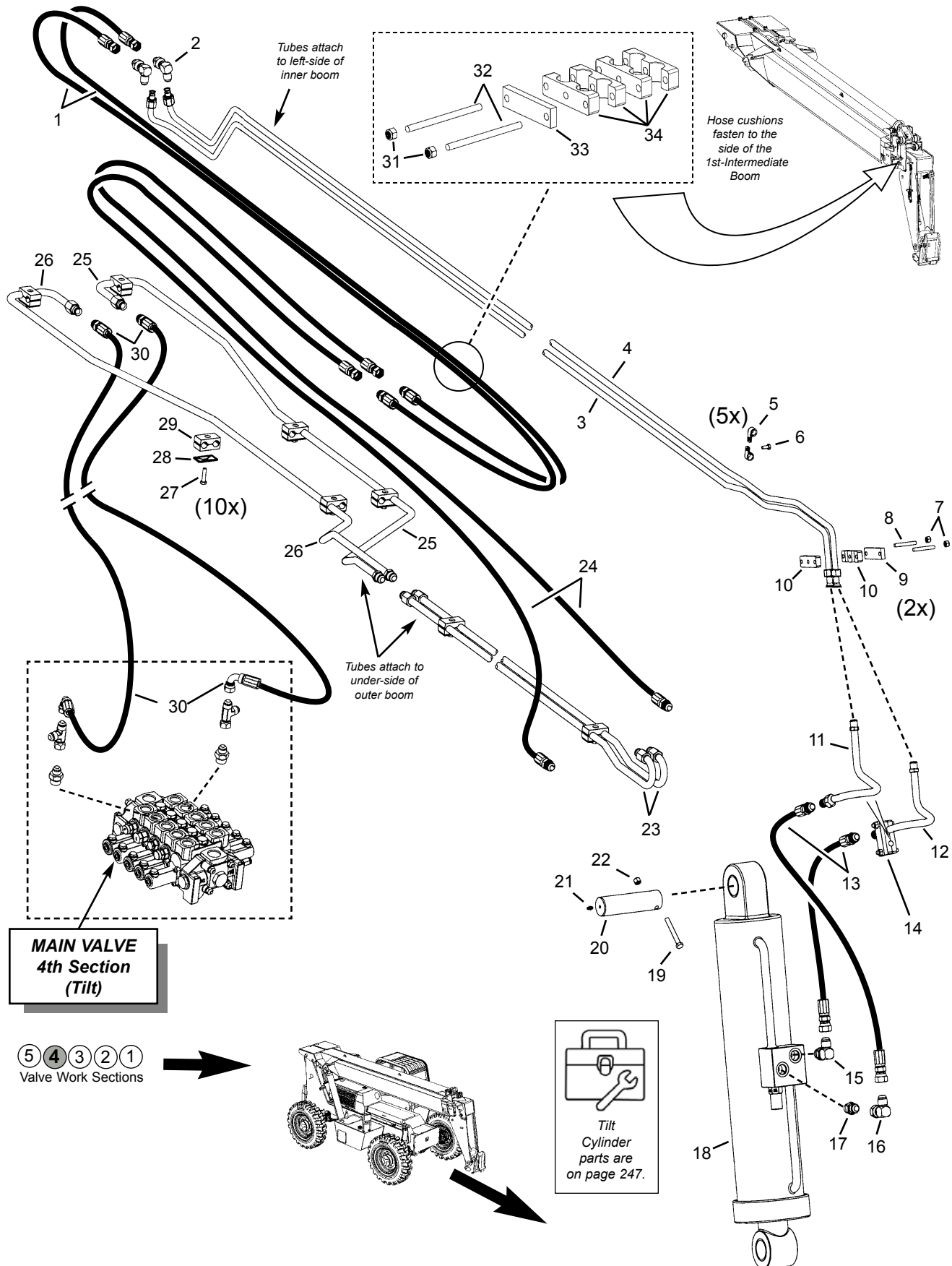
b Located on the bottom side of the boom.



Boom Hydraulics

4-Section Boom -Tilt

RS Series





Telescopic Handler

Boom Hydraulics 4-Section Boom - Tilt

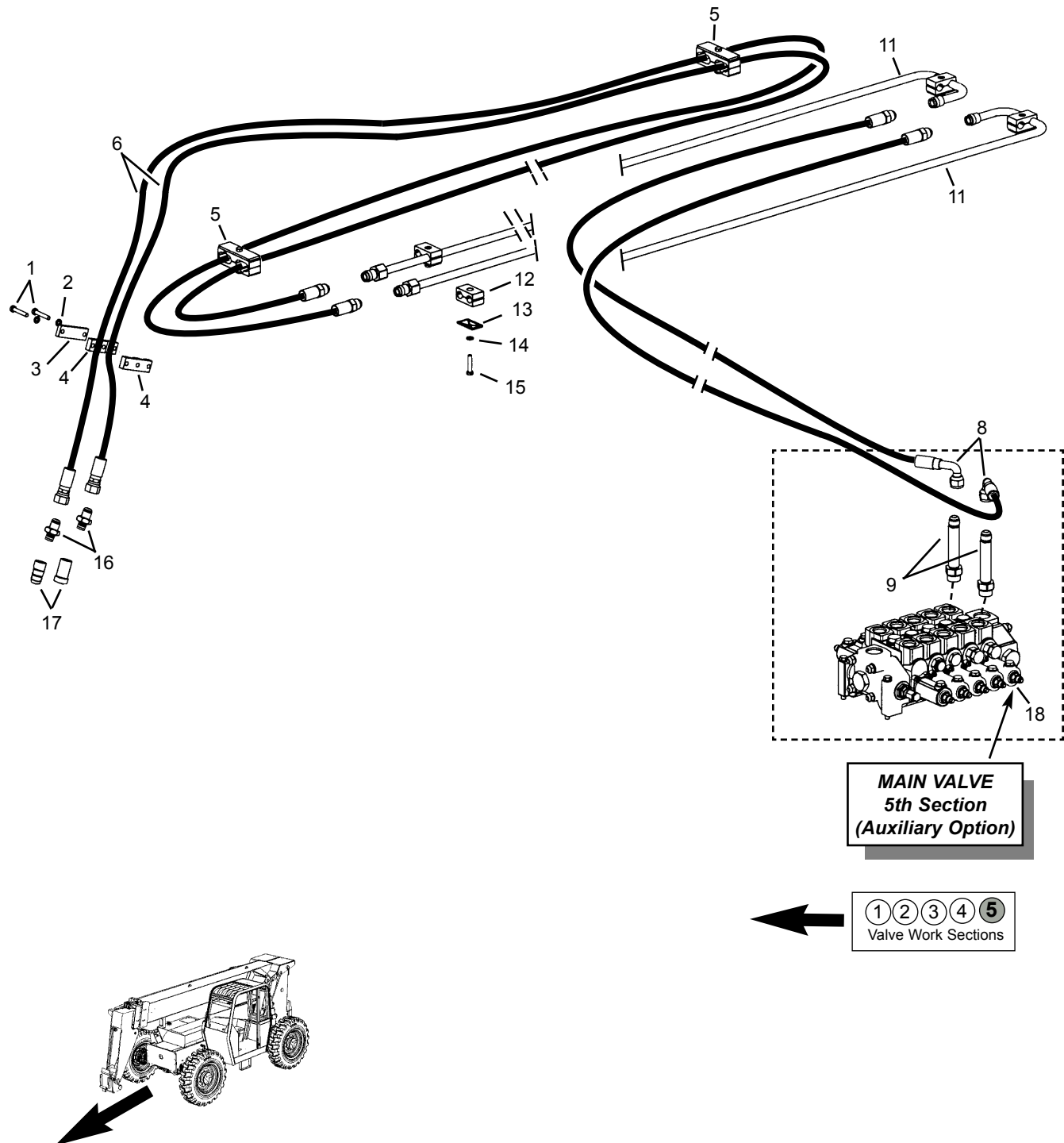
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	210888	HOSE, -8 A10/H10 254" (<i>twin line</i>) .	1	18	L69144	CYLINDER, TILT	1
02	230-21555	ADAP., -8ORB -8JICM 90° BLKHD .	2	19	650818	3/8"X3" BOLT	1
03	L71037	TUBE, TILT CYLINDER	1	20	L69601	PIN, TILT CYLINDER (<i>base end</i>) . .	1
04	L71036	TUBE, TILT CYLINDER	1	21	570019	1/4" GREASE ZERK	1
05	L71042	CLAMP, VINYL	10	22	L520005	3/8" NYLON INSERT NUT	1
06	650663	1/4"X5/8" BOLT	5	23	210330	TUBE, BOOM TILT/AUX.	2
07	L520004	5/16" NYLON INSERT NUT	4	24	L71055	HOSE, -8 A10/H10 268"	2
08	L50877	5/16"X2-1/4" STUD	4		L99134	HOSE SLEEVE (<i>not shown</i>)	1
09	L63715	PLATE, CUSHION	2	25	210337	TUBE, TILT CYLINDER	1
10	L63717	CLAMP, DBL. TUBE	4	26	210332	TUBE, TILT CYLINDER	1
11	L71038	TUBE, TILT CYLINDER	1	27	650545	5/16"X1-1/4" BOLT	10
12	L71039	TUBE, TILT CYLINDER	1	28	L69833	PLATE, CUSHION	10
13	L71043	HOSE, -8 A10/H8 20"	2	29	L69832	CLAMP, DBL. TUBE 5/8"	10
14	NSS	TUBE CLAMP ASSEMBLY	1	30	210428	HOSE, -10 H10/DS10 52"	2
		(<i>includes items 7-10</i>)		31	L520004	NIN 5/16"	2
15	067761	ADAP., -10ORM -10JICM 90°	1	32	L71104	STUD 1/4" x 2-1/4"	2
16	065415	ADAP., -10JICFS -10JICM 90°	1	33	L63719	PLATE, HOSE CUSHION	1
17	072580	ADAP., -10ORM -10JICM	1	34	L63720	CUSHION, HOSE	4



Boom Hydraulics

RS Series

3-Section Boom - Auxiliary Hydraulics Circuit



**Telescopic Handler****Boom Hydraulics****3-Section Boom - Auxiliary Hydraulics Circuit**

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L50884	5/16"-18X2-1/4" BOLT	2	16	137542	ADAP., -8ORM -10JICM STR	2
02	654024	5/16" FLAT WASHER	2	17	L65273	QUICK COUPLER SET	1
03	L63719	HOSE CUSHION TOP PLATE	2	18	105165	KIT, AUX. HYD. SECTION	1
04	L63720	TUBE CUSHION DBL .88"	4			(Does not include tie bolt kits 102807; order separately, requires four kits.)	
05	L79167	HOSE CLAMP ASSEMBLY	2				
06	Note a	AUXILIARY HYD. HOSES			102807	KIT, FIVE SECTION TIE BOLT	4
08	210428	HOSE, -10 H10/DS10 52"	2			(Each kit contains one bolt, two washers and two nuts.)	
09	210385	ADAP., -12ORM -10JICM LONG.	2				
11	210297	AUX. HYD. TUBE	2				
12	L69832	CLAMP, DBL TUBE .62"	6				
13	L69833	PLATE, TOP DBL CUSHION.	6				
14	654024	5/16" FLAT WASHER	6				
15	L50842	3/8"-16X1-1/2" BOLT	6				
						-- ITEMS NOT SHOWN --	
				--	102718	DECAL, AUXILIARY CONTROL . . .	1

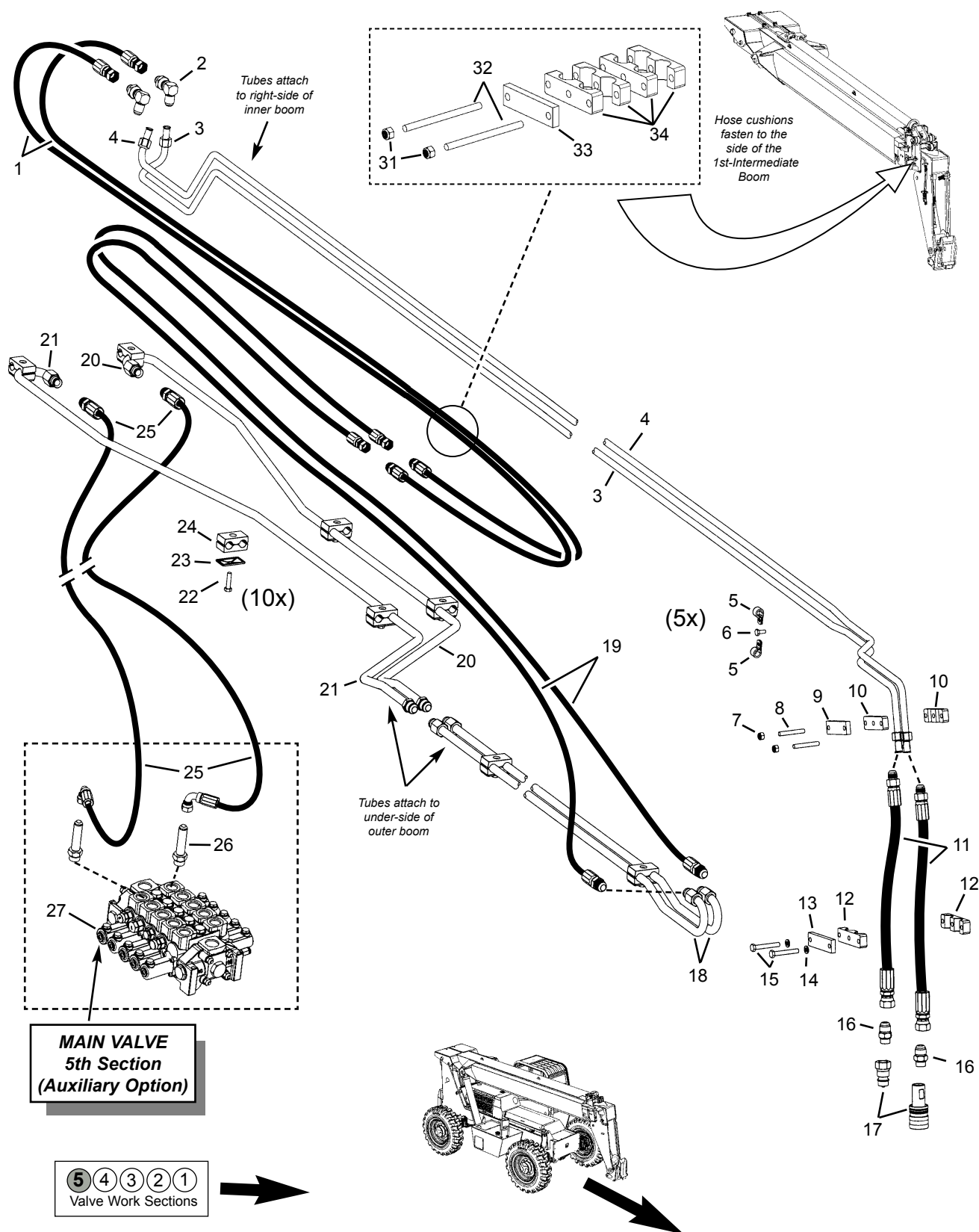
a (42' boom);
Use (1) L500784 protective sleeve and
(2) 210504 Hose, -8 A10/H10 370".

(44' boom);
Use (1) L500784 protective sleeve and
(2) 210505 Hose, -8 A10/H10 390".

Boom Hydraulics

4-Section Boom - Auxiliary Hydraulics Circuit

RS Series





Telescopic Handler

Boom Hydraulics

4-Section Boom - Auxiliary Hydraulics Circuit

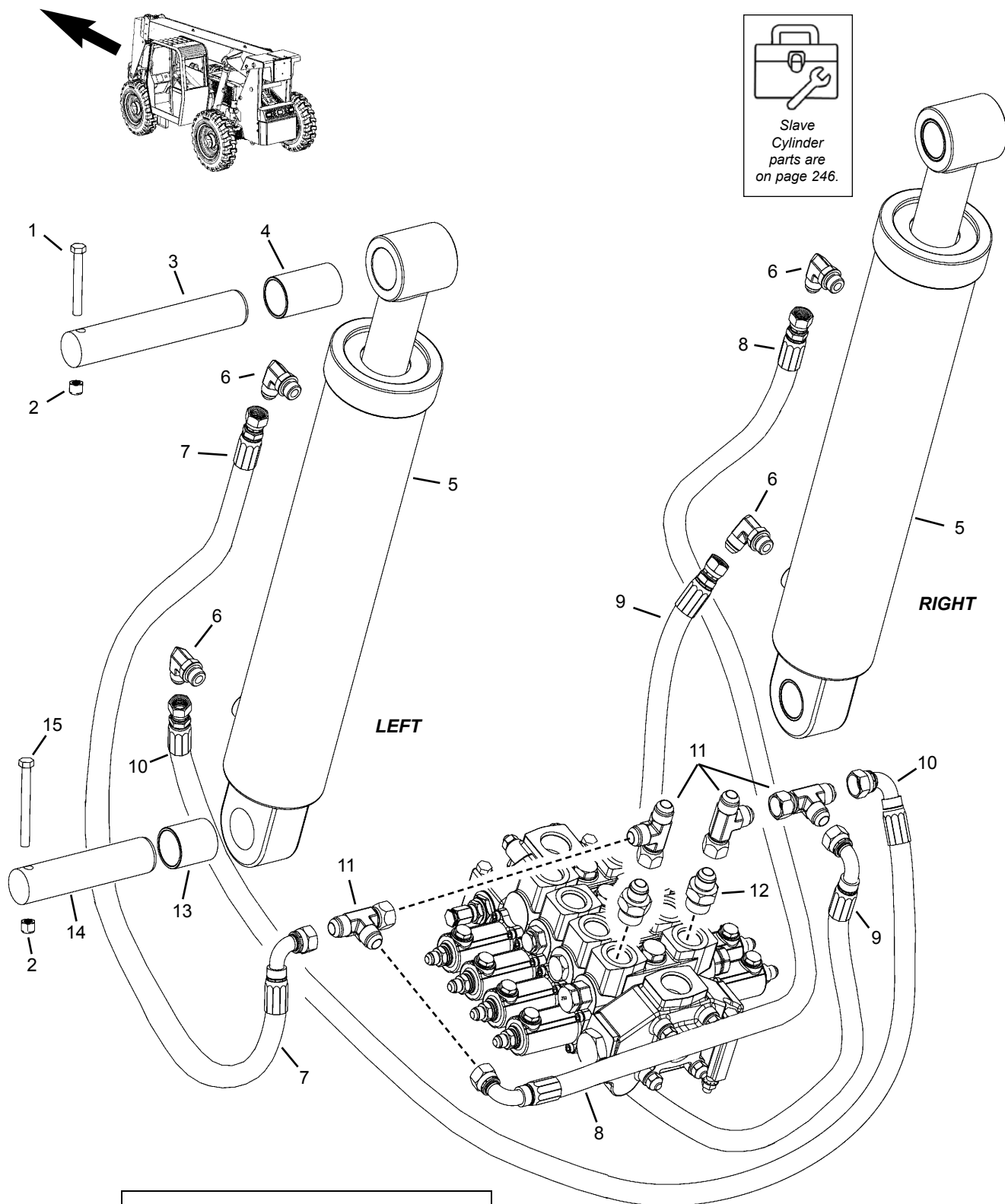
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	210887	HOSE, -8 A10/H10 248" (<i>twin line</i>) .	1	21	210331	TUBE, AUXILIARY	1
02	230-21555	ADAP., -8ORB -8JICM 90° BLKHD. .	2	22	650545	5/16"X1-1/4" BOLT	10
03	L71041	TUBE, AUXILIARY	1	23	L69833	PLATE, CUSHION.	10
04	L71040	TUBE, AUXILIARY	1	24	L69832	CLAMP, DBL. TUBE 5/8"	10
05	L71042	CLAMP, VINYL	10	25	210428	HOSE, -10 H10/DS10 52"	2
06	650663	1/4"X5/8" BOLT	5	26	210385	ADAP., -12ORM -10JICM LONG. . .	2
07	L520004	5/16" NYLON INSERT NUT	2	27	105165	KIT, AUX. HYD. SECTION	1
08	L50877	5/16"X2-1/4" STUD	2			(Does not include tie bolt kits 102807; order separately, requires four kits.)	
09	L63715	PLATE, CUSHION.	1		102807	KIT, FIVE SECTION TIE BOLT	4
10	L63717	CLAMP, DBL. TUBE	2			(Each kit contains one bolt, two washers and two nuts.)	
11	L71043	HOSE, -8 A10/H8 20"	2	31	L520004	NIN 5/16"	2
12	L63720	CLAMP, DBL. TUBE	2	32	L71104	STUD 1/4" x 2-1/4"	2
13	L63719	PLATE, DBL. TUBE	1	33	L63719	PLATE, HOSE CUSHION	1
14	654024	5/16" LOCK WASHER.	2	34	L63720	CUSHION, HOSE	4
15	650725	5/16"X2-1/4" BOLT	2			-- ITEMS NOT SHOWN --	
16	137542	ADAP., -8ORM -10JICM	2	--	102718	DECAL, AUXILIARY CONTROL . .	1
17	L65273	QUICK COUPLER SET.	1				
18	210330	TUBE, BOOM TILT/AUX.	2				
19	L71055	HOSE, -8 A10/H10 268"	2				
	L99134	HOSE SLEEVE (<i>not shown</i>)	1				
20	210335	TUBE, AUXILIARY	1				



Boom Hydraulics

Slave Cylinder Circuit

RS Series



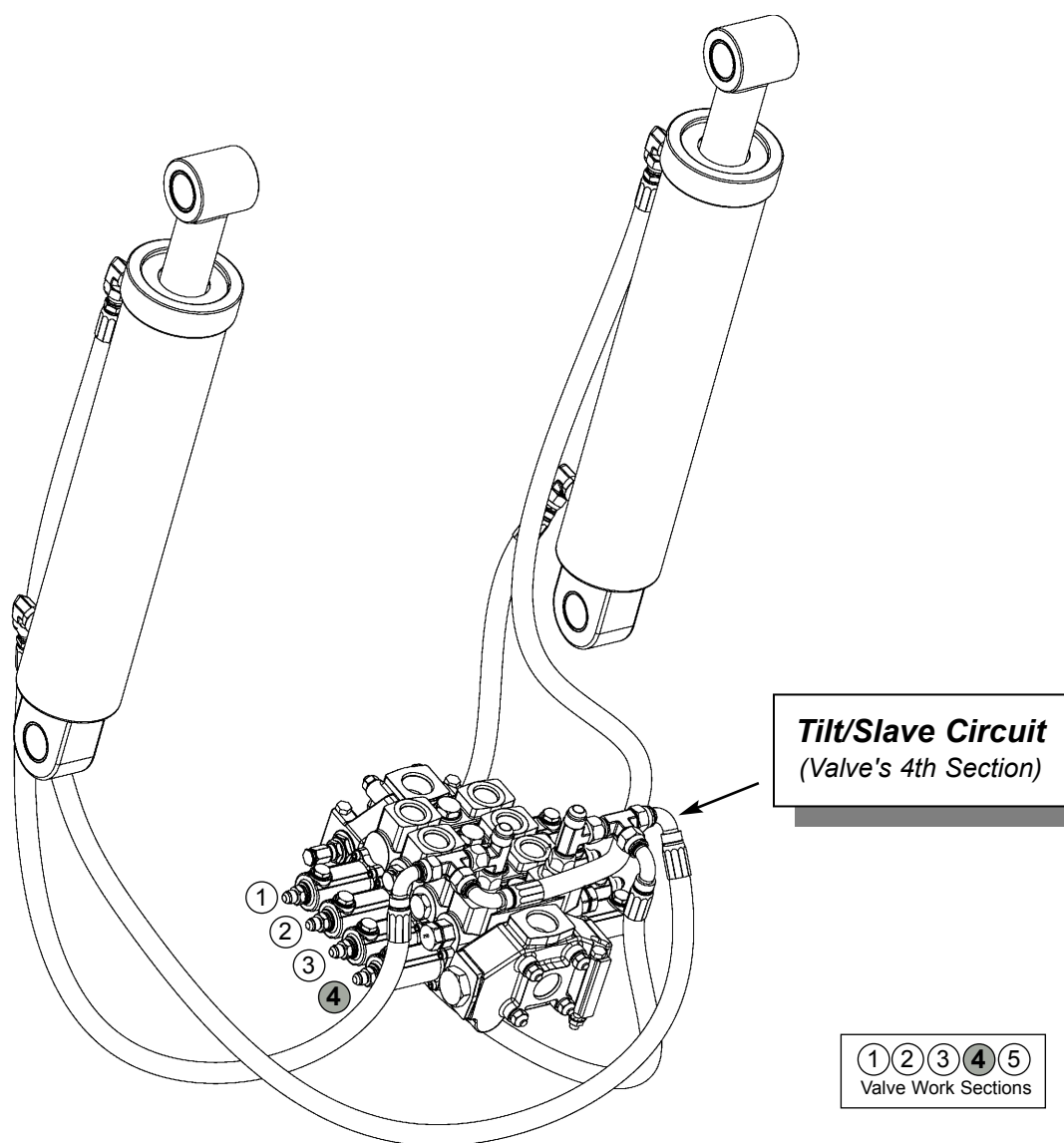
Standard Four-Section Valve
(Does not include auxiliary hydraulics section)



Telescopic Handler

Boom Hydraulics Slave Cylinder Circuit

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	650493	3/8"X2-3/4" BOLT	2	09	187351	HOSE, -8 A8/DS10 62"	1
02	L520005	3/8" NYLON LOCK NUT	4	10	187351	HOSE, -8 A8/DS10 62"	1
03	102445	PIN, SLAVE CYL. ROD END	2	11	058610	ADAP., -10 SWVL RUN TEE	4
04	L63018	BUSHING (included with item #5)	2	12	072602	ADAP., -12ORM -10JICM	2
05	L69149	CYLINDER (incls. items 4 & 13)	2	13	L63017	BUSHING (included with item #5)	2
06	054816	ADAP., -8ORM -8JICM 90°	4	14	210293	PIN, SLAVE CYL. BASE END	2
07	187351	HOSE, -8 A8/DS10 62"	1	15	650731	3/8"X3-1/2" BOLT	2
08	187351	HOSE, -8 A8/DS10 62"	1				

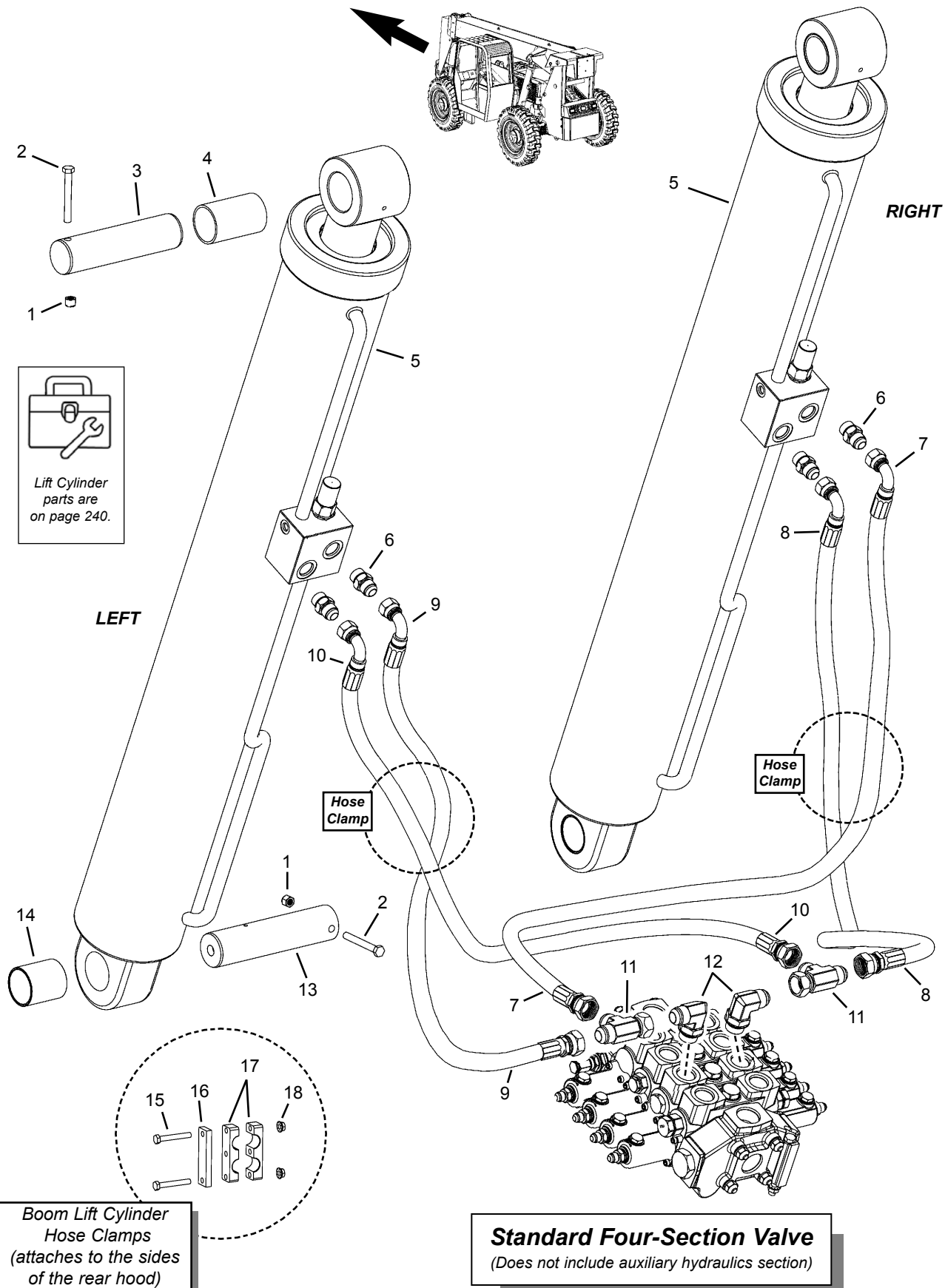




Boom Hydraulics

Boom Lift Circuit

RS Series





Telescopic Handler

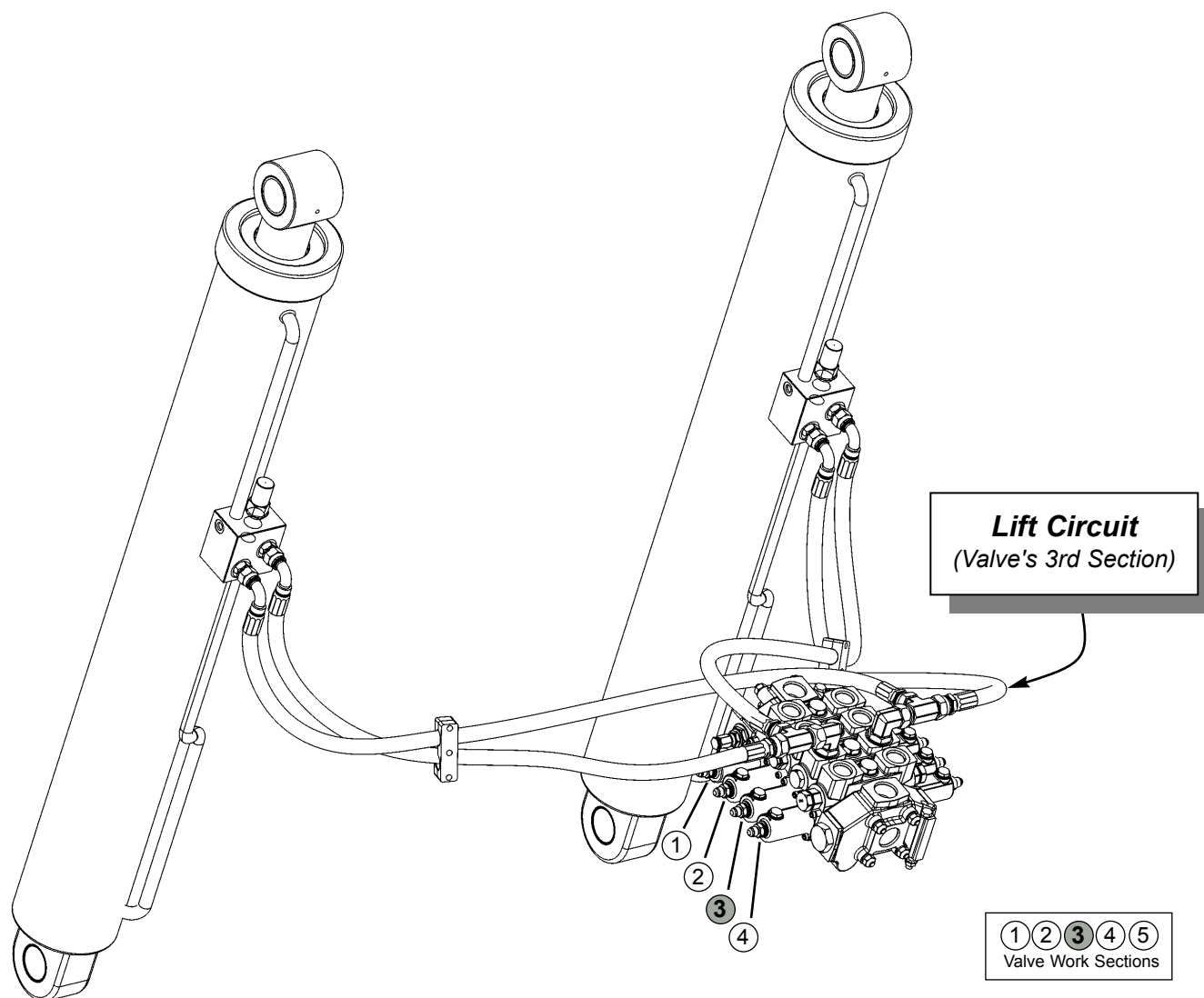
Boom Hydraulics

Boom Lift Circuit

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L520005	3/8" NYLON LOCK NUT	4	14	L69138	BUSHING (<i>included with item 14</i>) . . . 2	
02	650818	3/8"x3" BOLT	4	15	650725	CS 5/16" x 2-1/4" C5ZY	4
03	L69600	PIN, LIFT CYLINDER ROD END . . . 2		16 ^b	L63719	PLATE, TWIN-WIDE TOP	2
04	L69142	BUSHING (<i>included with item 5</i>) . . . 2		17 ^b	L63720	CUSHION, HOSE 7/8" TWIN	4
05 ^a	L69135	CYLINDER, LIFT	2	18	L50056	5/16" FLANGE LOCK NUT	AR
06	072580	ADAP., -10ORM -10JICM ST.	4				
07	50380310	HOSE, -10 A12/DS10 60"	1				
08	50380310	HOSE, -10 A12/DS10 60"	1				
09	50380310	HOSE, -10 A12/DS10 60"	1				
10	50380310	HOSE, -10 A12/DS10 60"	1				
11	056089	TEE MJ12-FJS12-MJ12	2				
12	055005	90 MJ12-MAORB12	2				
13	L69599	PIN, LIFT CYL. BASE END	2				

a Bushings are included with the lift cylinder.

b Refer to page 46; items 13, 18-20 for lift cylinder hose clamp locations on the chassis cover.

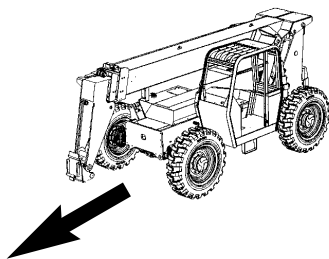
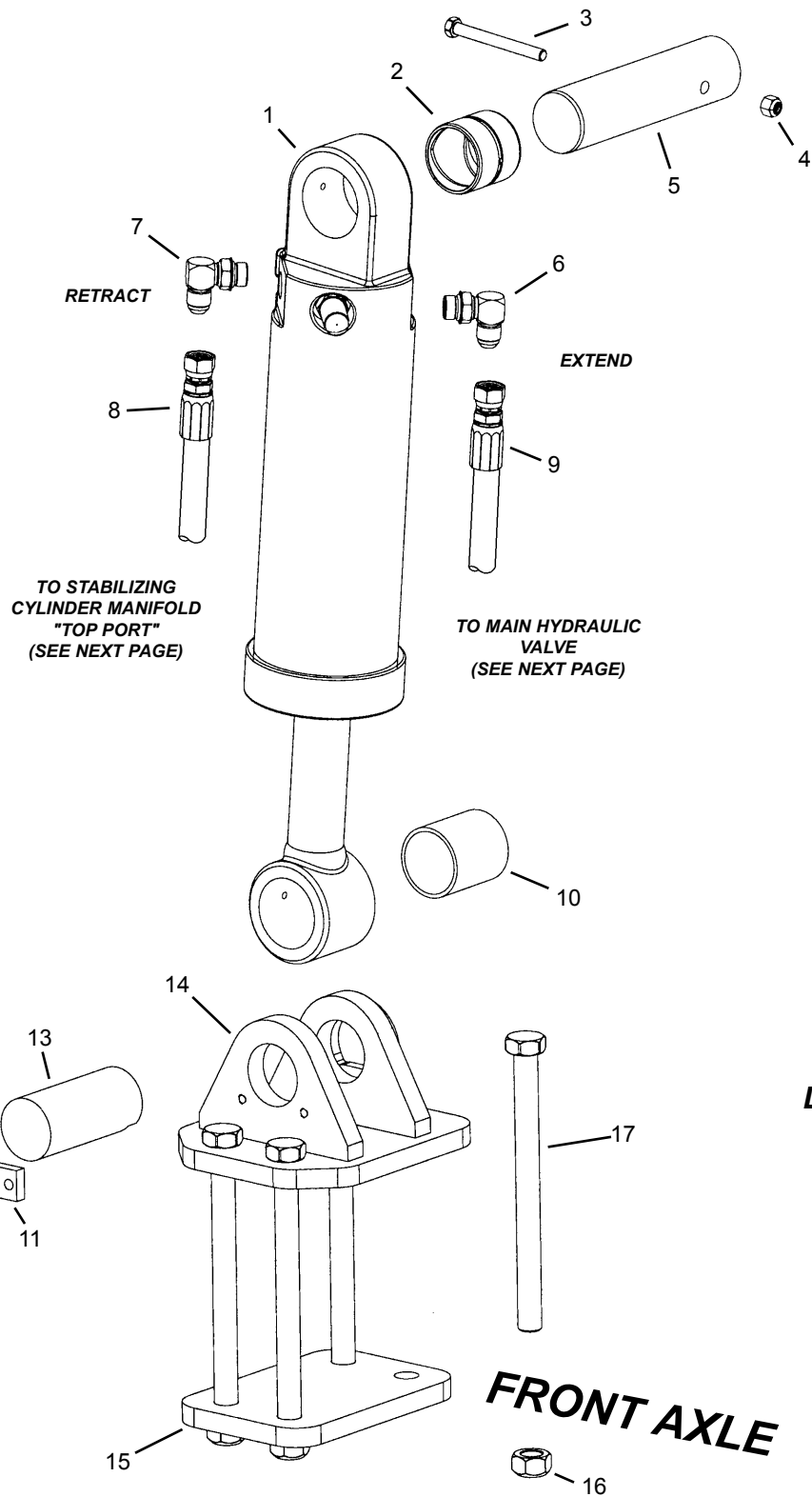
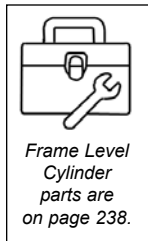




Chassis Hydraulics

Frame Level

RS Series





Telescopic Handler

Chassis Hydraulics Frame Level

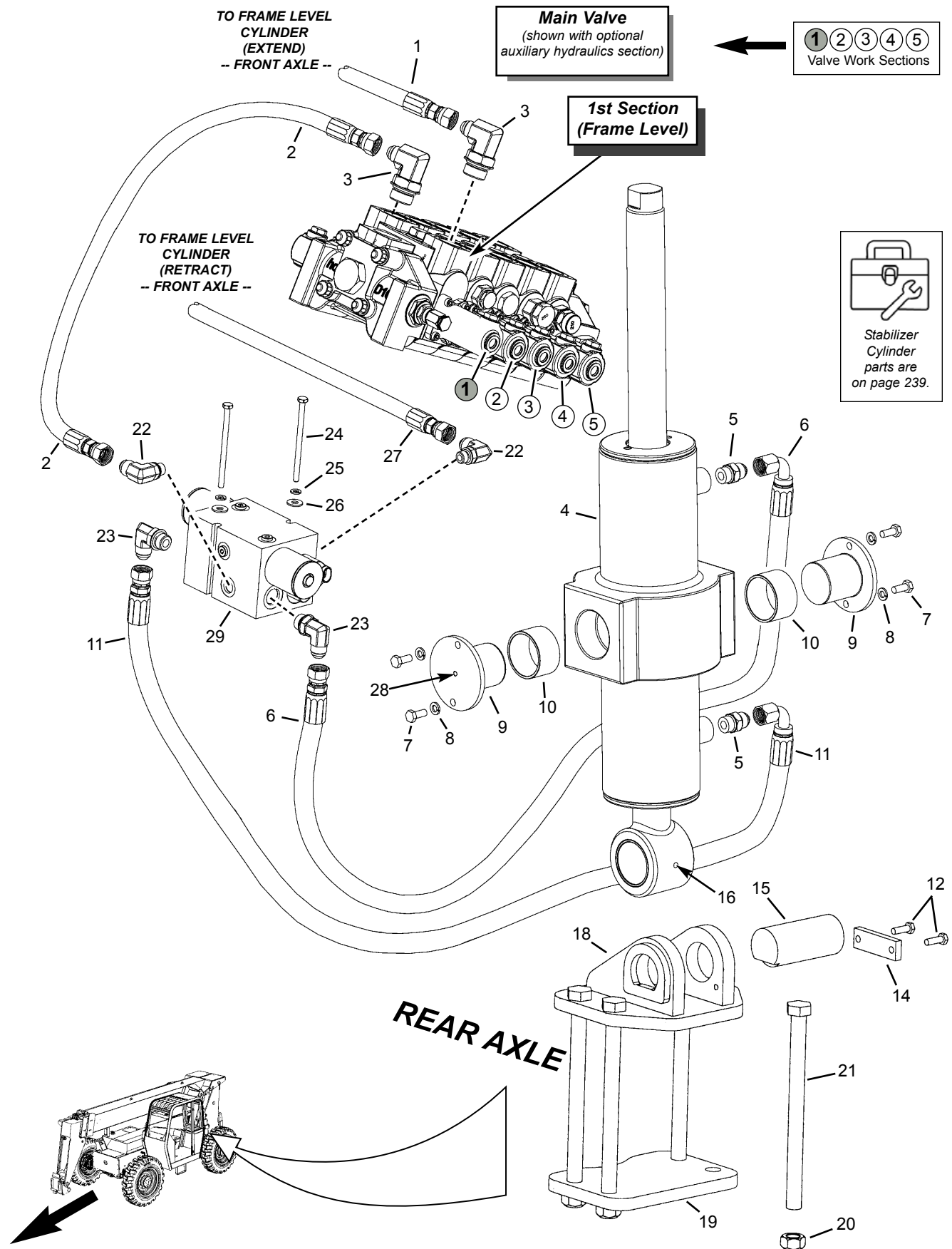
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102876	LEVEL CYLINDER	1	12	650487	5/16" X 1-1/4" BOLT	2
02	L64367	BRONZE BEARING	1	13	210447	PIVOT PIN (<i>rod end</i>)	1
03	L50277	3/8"-16X3-1/2" BOLT	1	14		FRAME LEVEL MNT (<i>front axle</i>)...	1
04	L520005	3/8"-16 NYLON INSERT NUT	1		210558	<i>Note x</i>	
05	L63276	PIN, CYLINDER (<i>base end</i>)	1		210173	<i>Note y</i>	
06	L66017	ADAP., W/ORIFICE -8ORM -8JICM	1	15		PLATE, MOUNT	1
07	054816	ADAP., -8ORM -8JICM 90°	1		210572	<i>Note x</i>	
08		HOSE, -8 A8/A8	1		210421	<i>Note y</i>	
	102860	<i>Note x (168" long)</i>		16	L50084	3/4"-10 STOVER NUT	4
	102873	<i>Note y (190" long)</i>		17		BOLT	4
09	102873	HOSE, -8 A8/A8 190"	1		L50712	(<i>Note x</i>)—3/4"-10X9" GR8	
10	L63016	BRONZE BEARING	1		651567	(<i>Note y</i>)—3/4"-10X10" GR8	
11	L63715	PLATE	1				
				x		Only RS6-42 and RS8-42/44	
				y		Only RS10-44/55 and RS12-42	



Chassis Hydraulics

Frame Stabilizing

RS Series





Telescopic Handler

Chassis Hydraulics Frame Stabilizing

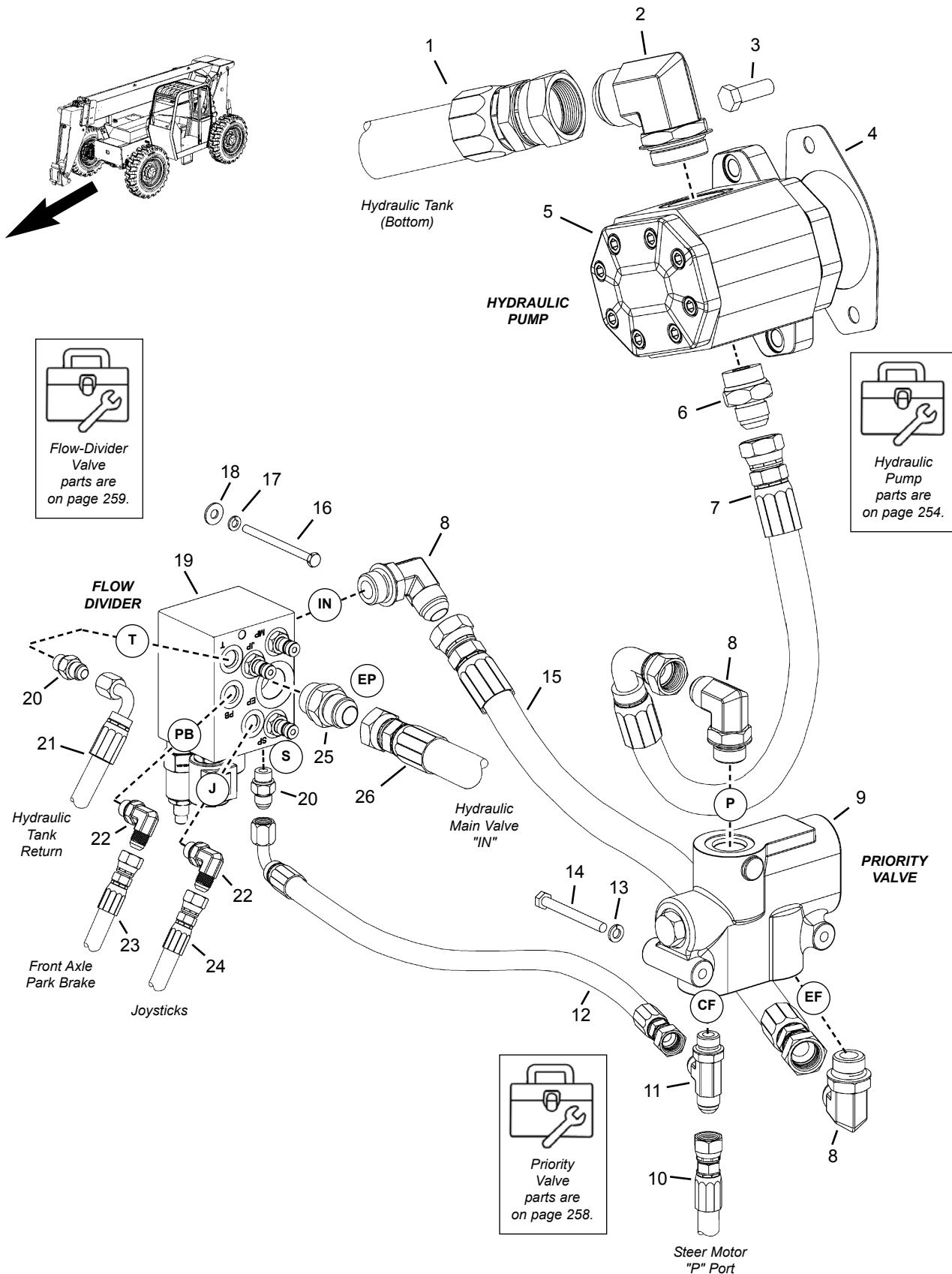
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102873	HOSE, -8 A8/A8 190"	1	19		PLATE, MOUNT	1
02	L68817	HOSE, -6 A8/A8 28"	1		210572	<i>Note x</i>	
03	121775	ADAP., -12ORM -8JICM 90°	2		210421	<i>Note y</i>	
04	102247	FRAME STABILIZING CYLINDER . 1		20	L50084	3/4"-10 NUT GR8	4
05	054626	ADAP., -8ORM -8JICM STR	2	21		BOLT	4
06	102858	HOSE, -8 A8/DS8 46"	1		L50712	(<i>Note x</i>)—3/4"-10X9" GR8	
07	650486	5/16"-18X3/4" BOLT	4		651567	(<i>Note y</i>)—3/4"-10X10" GR8	
08	654024	5/16" LOCK WASHER.	4	22	114824	ADAP., -6ORM -8JICM 90°	2
09	L69776	TRUNNION PIVOT PIN.	2	23	054816	ADAP., -8ORM -8JICM 90°	2
10	L69774	BUSHING	2	24	102774	1/4"-20X4" BOLT GR5.	2
11	102858	HOSE, -8 A8/DS8 46"	1	25	L50139	1/4" LOCK WASHER.	2
12	650487	5/16" X 1-1/4" BOLT	2	26	654002	FW 1/4" AWZY.	2
14	L63715	LOCK, PIVOT PIN.	1	27		HOSE, -8 A8/A8.	1
15	210447	LEVEL CYL. PIN (<i>rod end</i>)	1		102860	<i>Note x</i> (168" long)	
16	L10057	1/4"-28 ZERK 90° (<i>not shown</i>)	1		102873	<i>Note y</i> (190" long)	
17	L69138	BUSHING (<i>rod end</i>).	1	28	L10465	1/4"-28 ZERK STR (<i>not shown</i>)	1
18		STABILIZING MOUNT (<i>rear axle</i>) . . 1		29	102877	MANIFOLD, STABILIZING CYL.	1
	210168	<i>Note x</i>			50380318	WIRE HARNESS, STABILIZER	1
	210198	<i>Note y</i>				(<i>not shown</i>)	
				x	Only RS6-42 and RS8-42/44		
				y	Only RS10-44/55 and RS12-42		



Hydraulics

RS Series

Hydraulic Pump and Flow Divider Circuit





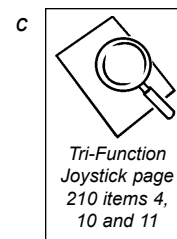
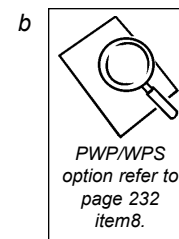
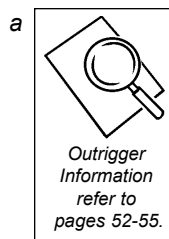
Telescopic Handler

Hydraulics

Hydraulic Pump and Flow Divider Circuit

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L63309	HOSE, -24 A24/A24 35"	1	22	068938	90 MJ06-MAORB06	2
02	L445010	ADAP., -24ORM -24JICM 90°	1	23	102839	HOSE, -6 A6/A6 57"	1
03	650453	CS 1/2"x1-1/2" C5ZY	2	24 ^b		HOSE, -4 A6/A6	1
04	L46865	GASKET	1		102786	Standard Equipped—54" long	
05	102498	HYDRAULIC PUMP	1		L63381	PWP/WPS Equipped—15" long	
06	121774	ST MJ12-MORB16	1	25 ^a	072587	ADAP., -12ORM -12JICM	1
07	104092	HOSE, -12 A12/DM12 23"	1	26 ^a	L63406	HOSE, -12 A12/DS12 114"	1
08	055005	ADAP., -12ORM -12JICM	3				
09	104132	PRIORITY VALVE	1				
10	102835	HOSE, -6 A8/DS8 50"	1				
11	114742	ADAP., -8ORM -8JICM TEE	1				
12	102836	HOSE, -6 A8/DS6 19"	1				
13	654024	LW 5/16 RZY	2				
14	650833	CS 5/16"x3" C5ZY	2				
15	L64311	HOSE, -12 A12/A12 21"	1				
16	L50217	CS 1/4-20x3-1/2" C5ZY	2				
17	L50139	LW 1/4"	2				
18	654002	FW 1/4" AWZY	2				
19	102313	FLOW DIVIDER VALVE	1				
20	054994	ADAP., -6ORM -6JICM	2				
21 ^c	102946	HOSE, -6 A6/DS6 18"	1				

- a If the unit is equipped with the outrigger option, there will be two additional hoses: hose P/N 102814 (-12 A12/DS12 74") attaches to fitting (item #10) and the outrigger valve; hose P/N 210799 (-12 H12/A12 41") returns from the outrigger valve and connects to the existing hose—item 11. For more outrigger information refer to pages 52-55.*
- b If the unit is equipped with the PWP/WPS option, use hose L63381 (15" long) to connect to the "P" port on the PWP/WPS valve. Also, units with the single (Tri-Function) joystick have a tee fitting between the 90° fitting and the hose, refer to page 232; item 8.*
- c Units with the single (Tri-Function) joystick will have tee fitting between this hose and the straight fitting shown here. Refer to page 210 items 4, 10, and 11 for more information.*



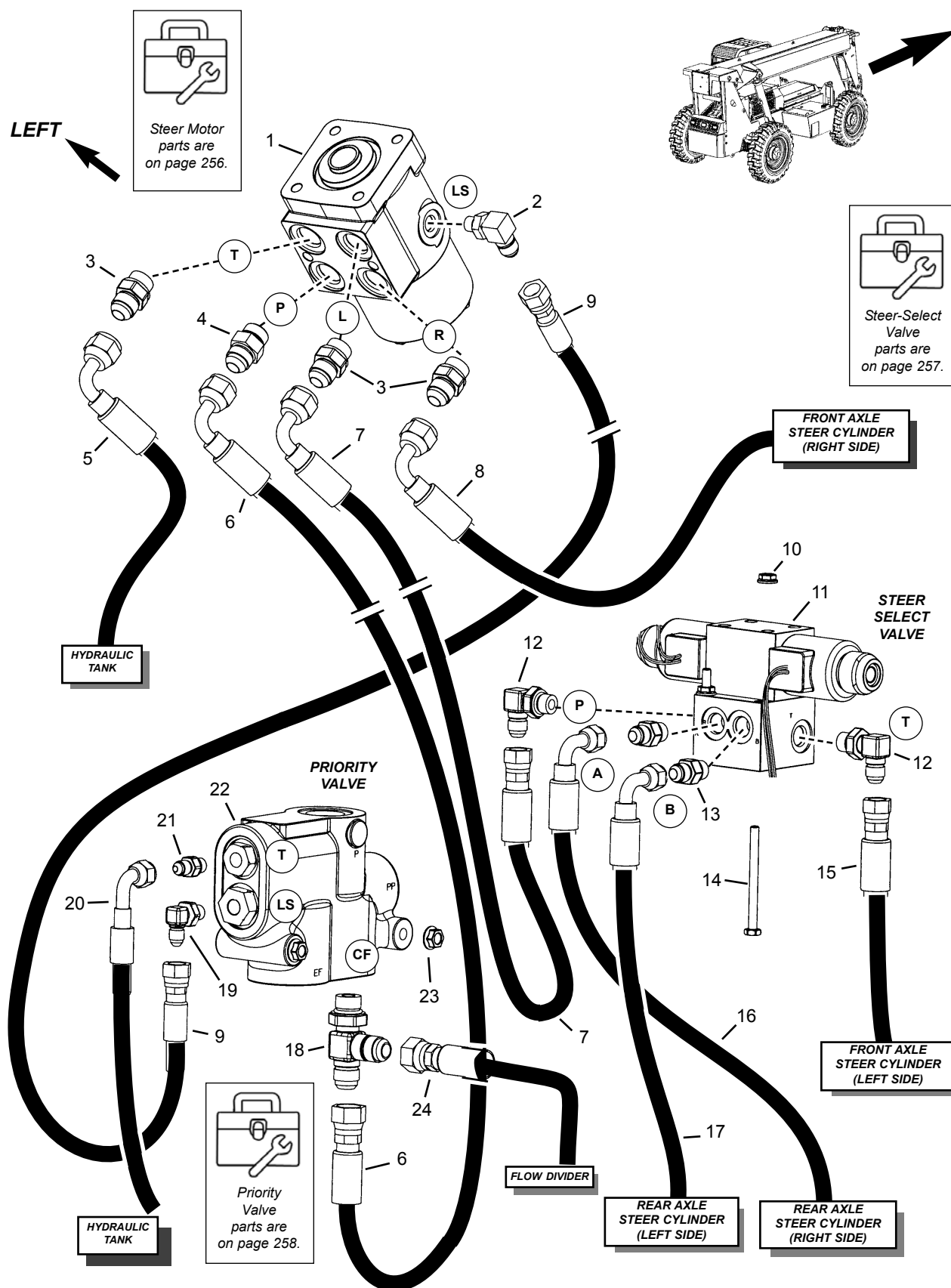
HOSE LOCATOR

01	HYDRAULIC PUMP "IN"	HYDRAULIC TANK "BOTTOM - OUT"
07	HYDRAULIC PUMP "OUT"	PRIORITY VALVE "P" (top of valve)
10	PRIORITY VALVE "CF" (bottom of valve - tee)	STEER MOTOR "P"
12	PRIORITY VALVE "CF" (bottom of valve - tee)	FLOW DIVIDER "S" (bottom of valve)
15	PRIORITY VALVE "EF" (bottom of valve)	FLOW DIVIDER "IN" (side)
21	FLOW DIVIDER "T" (front of valve)	HYDRAULIC TANK RETURN (return manifold)
23	FLOW DIVIDER "PB" (front of valve)	FRONT AXLE (park brake port)
24 ^b	FLOW DIVIDER "J" (front of valve)	JOYSTICK POWER ("P" on joystick)
24 ^b	FLOW DIVIDER "J" (front of valve)	PWP/WPS VALVE ("P")
26 ^a	FLOW DIVIDER "EP" (front of valve) (STANDARD)	MAIN VALVE "IN"
26 ^a	OUTRIGGER VALVE/HOSE (OUTRIGGER OPTION)	MAIN VALVE "IN"

Hydraulics

Steering

RS Series

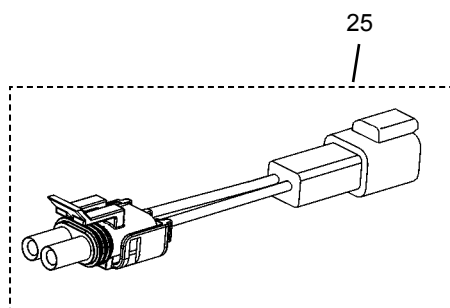




Telescopic Handler

Hydraulics
Steering

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	101880	STEER MOTOR	1	15		HOSE, -6 A6/A8.	1
02	095601	ADAP., -4ORM -4JICM 90°	1		102848	(Note x)—48" long	
03	054626	ADAP., -8ORM -8JICM STR	3		L69933	(Note y)—56" long	
04	L64524	VALVE, CHECK	1	16	L69936	HOSE, -6 A6/A8 100"	1
05	L63383	HOSE, -6 A6/DS8 52"	1	17	L69936	HOSE, -6 A6/A8 100"	1
06	102835	HOSE, -6 A8/DS8 50"	1	18	114742	ADAP., -8ORM -8JICM TEE	1
07	102846	HOSE, -6 A6/DS8 58"	1	19	095601	ADAP., -4ORM -4JICM 90°	1
08		HOSE, -6 A8/DS8	1	20	L69904	HOSE, -4 A6/DS6 20"	1
	102847	(Note x)—82" long		21	129124	ADAP., -6ORM -4JICM STR	1
	210460	(Note y)—98" long		22	104132	PRIORITY VALVE	1
09	102837	HOSE, -4 A4/A4 52"	1	23	L50056	5/16"-18 WHIZ LOCK NUT	2
10	L50051	1/4"-20 WHIZ LOCK NUT	2	24	102836	HOSE, -6 A8/DS6 19"	1
11	L69747	VALVE, STEER SELECT	1	25	50380338	WIRE HARNESS, JUMPER	2
12	068938	ADAP., -6ORM -6JICM 90°	2			(steer select valve)	
13	054994	ADAP., -6ORM -6JICM STR	2				
14	L50535	1/4"-20X3" BOLT	2	x		Only RS6-42 and RS8-42/44	
				y		Only RS10-44/55 and RS12-42	



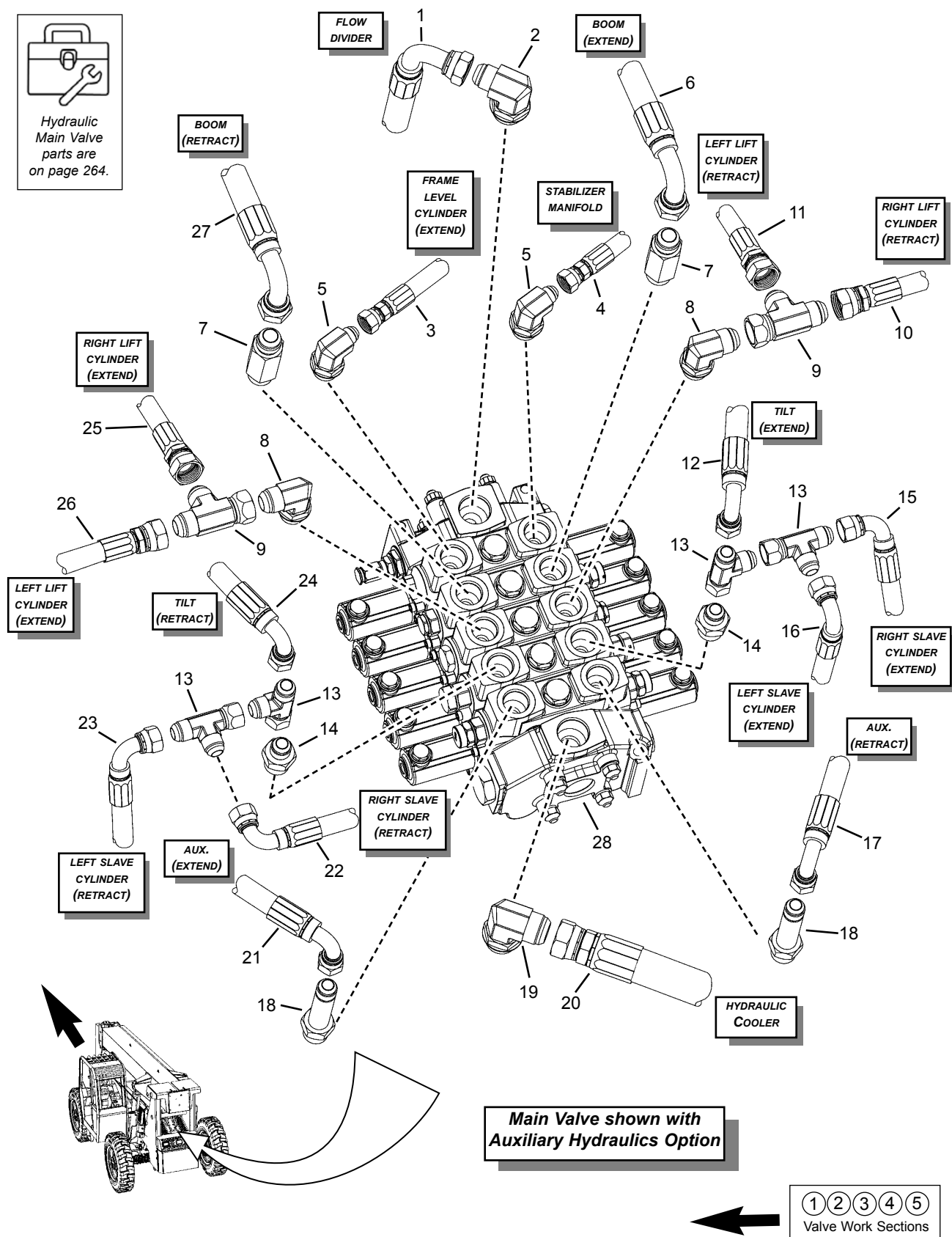
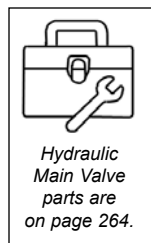
STEER SELECT VALVE JUMPER WIRE



Hydraulics

Main Valve

RS Series

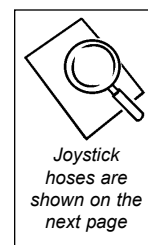
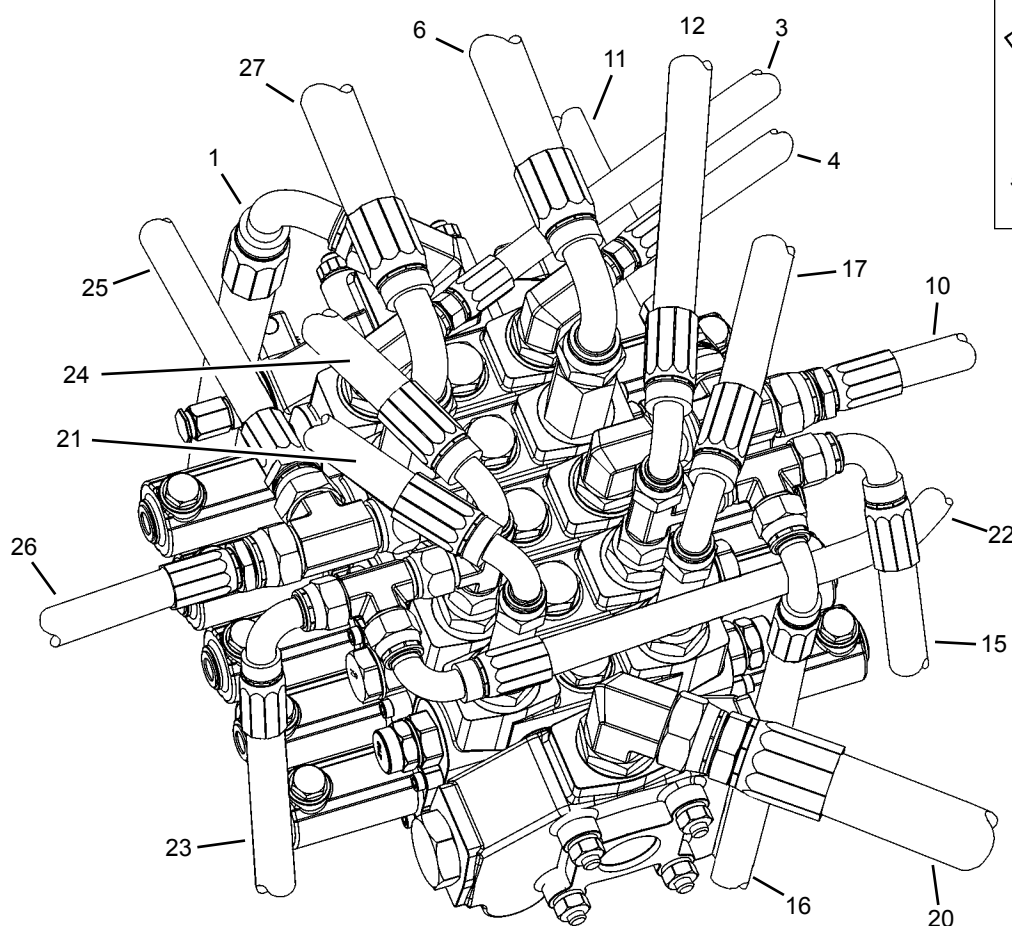




Telescopic Handler

Hydraulics Main Valve

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L63406	HOSE, -12 A12/DS12 114"	1	16	187351	HOSE, -8 A8/DS10 62"	1
02	121684	ADAP., -16ORM -12JICM 90°	1	17	210428	HOSE, -10 H10/DS10 52"	1
03	102873	HOSE, -8 A8/A8 190"	1	18	210385	ADAP., -12ORM -10JICM LNG	2
04	L68817	HOSE, -8 A8/A8 28"	1	19	077965	ADAP., -16ORM -16JICM	1
05	121775	ADAP., -12ORM -8JICM 90°	2	20	102849	HOSE, -16 A16/A16 42"	1
06	210429	HOSE, -12 H12/DS12 50"	1	21	210428	HOSE, -10 H10/DS10 52"	1
07	188973	ADAP., -12ORM -12JICM LNG	2	22	187351	HOSE, -8 A8/DS10 62"	1
08	055005	ADAP., -12ORM -12JICM	2	23	187351	HOSE, -8 A8/DS10 62"	1
09	056089	ADAP., -12 SWVL RUN TEE	2	24	210428	HOSE, -10 H10/DS10 52"	1
10	50380310	HOSE, -10 A12/DS10 60"	1	25	50380310	HOSE, -10 A12/DS10 60"	1
11	50380310	HOSE, -10 A12/DS10 60"	1	26	50380310	HOSE, -10 A12/DS10 60"	1
12	210428	HOSE, -10 H10/DS10 52"	1	27	210429	HOSE, -12 H12/DS12 50"	1
13	058610	ADAP., -10 SWVL RUN TEE	4	28		MAIN VALVE	1
14	072602	ADAP., -12ORM -10JICM	2		102356	<i>Without Aux. Hydraulics (4-sections)</i>	
15	187351	HOSE, -8 A8/DS10 62"	1		210320	<i>With Aux. Hydraulics (5-sections)</i>	

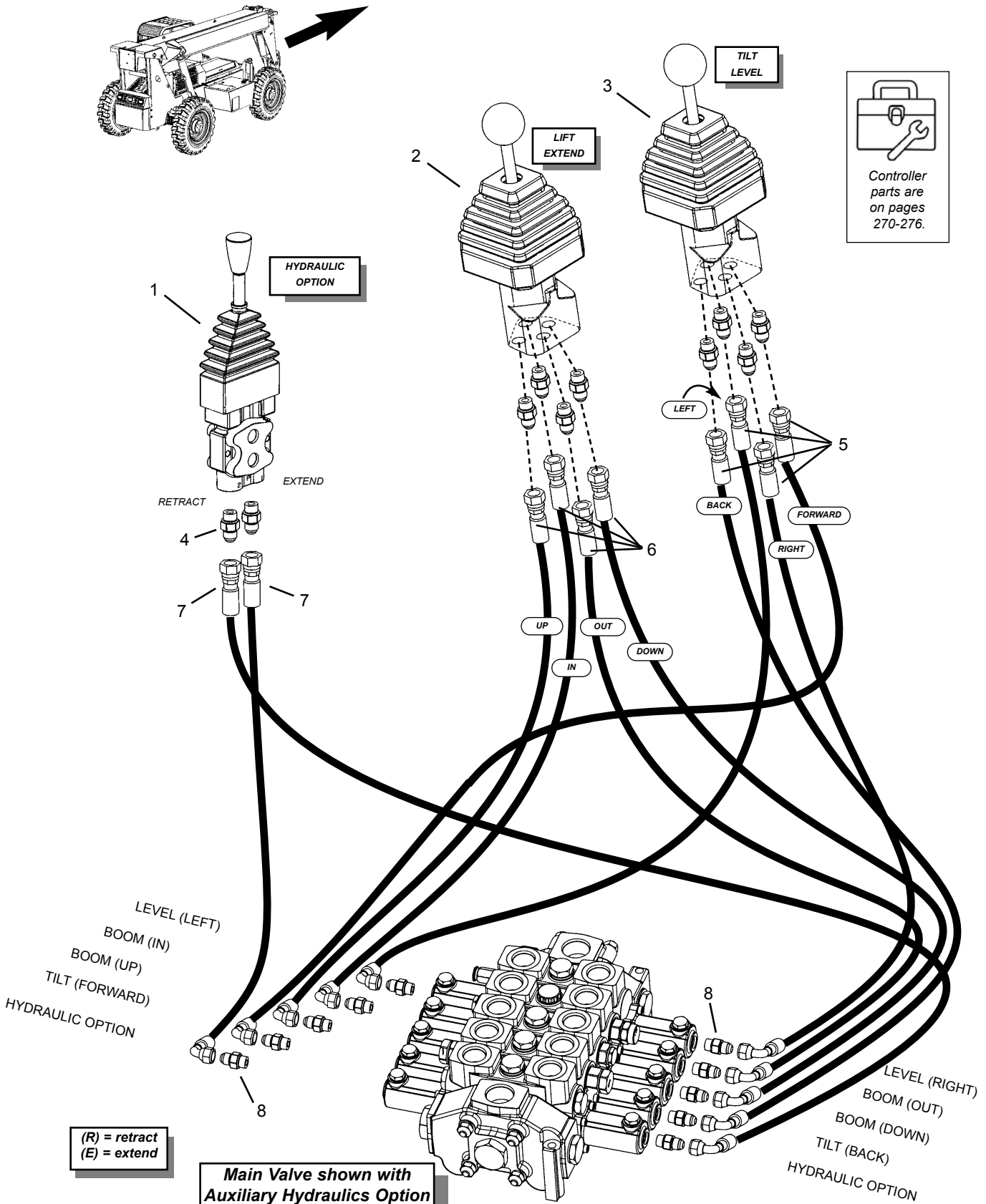




Hydraulics

Main Valve - Dual Controllers

RS Series





Telescopic Handler

Hydraulics

Main Valve - Dual Controllers

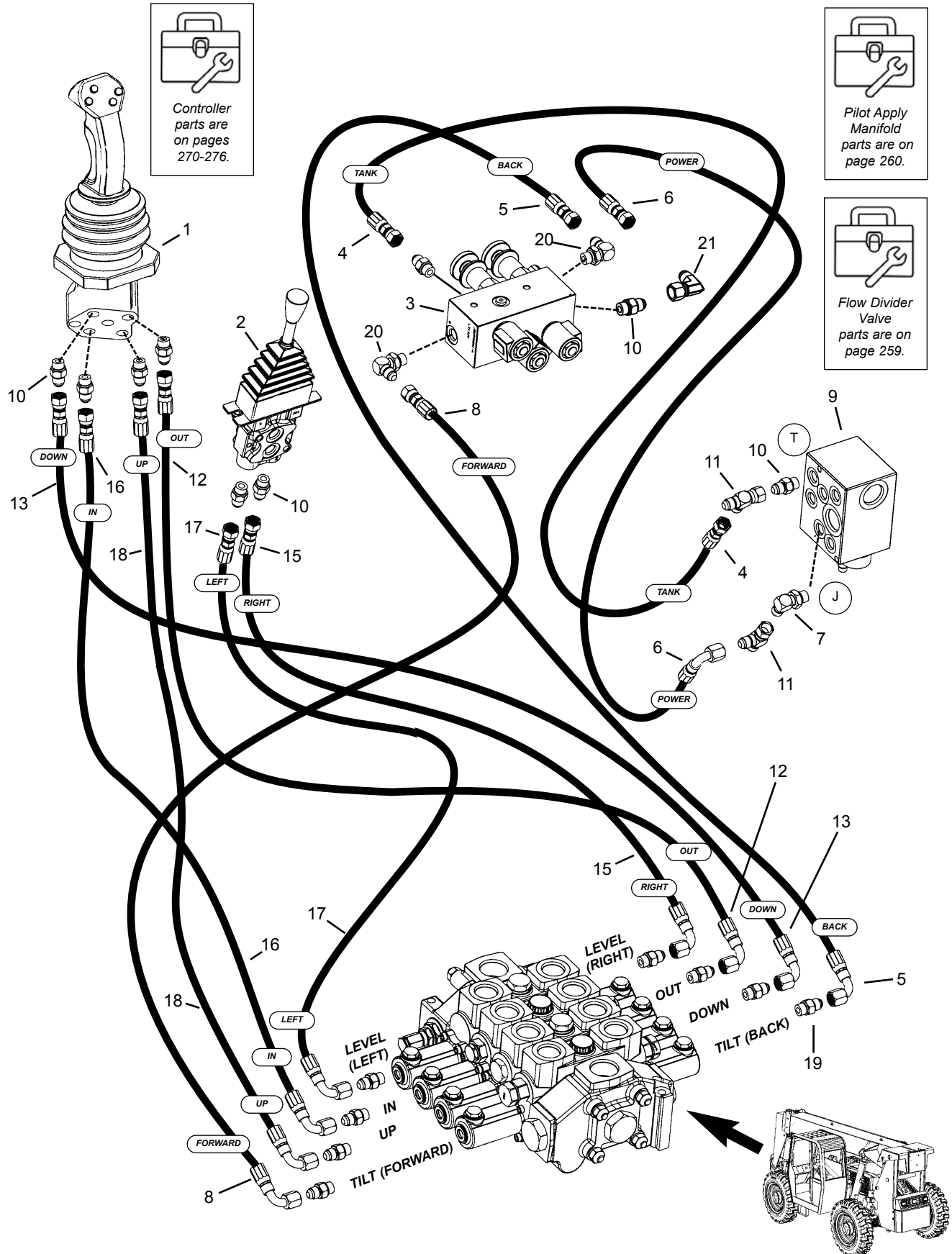
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102435	CONTROLLER, AUX. HYD.	1	05	102845	HOSE, -4 A6/DS6 120"	4
02	102434	CONTROLLER, LIFT/EXTEND. . . .	1	06	102844	HOSE, -4 A6/DS6 108"	4
03	102784	CONTROLLER, TILT/LEVEL.	1	07	102831	HOSE, -4 A6/DS6 102"	2
04	054994	ADAP., -6ORM -6JICM STR. . . .	AR	08	103194	ADAP., 1/4BSP -6JICM STR. . . .	AR



Hydraulics

Main Valve - Tri-Function Controller

RS Series





Telescopic Handler

Hydraulics

Main Valve - Tri-Function Controller

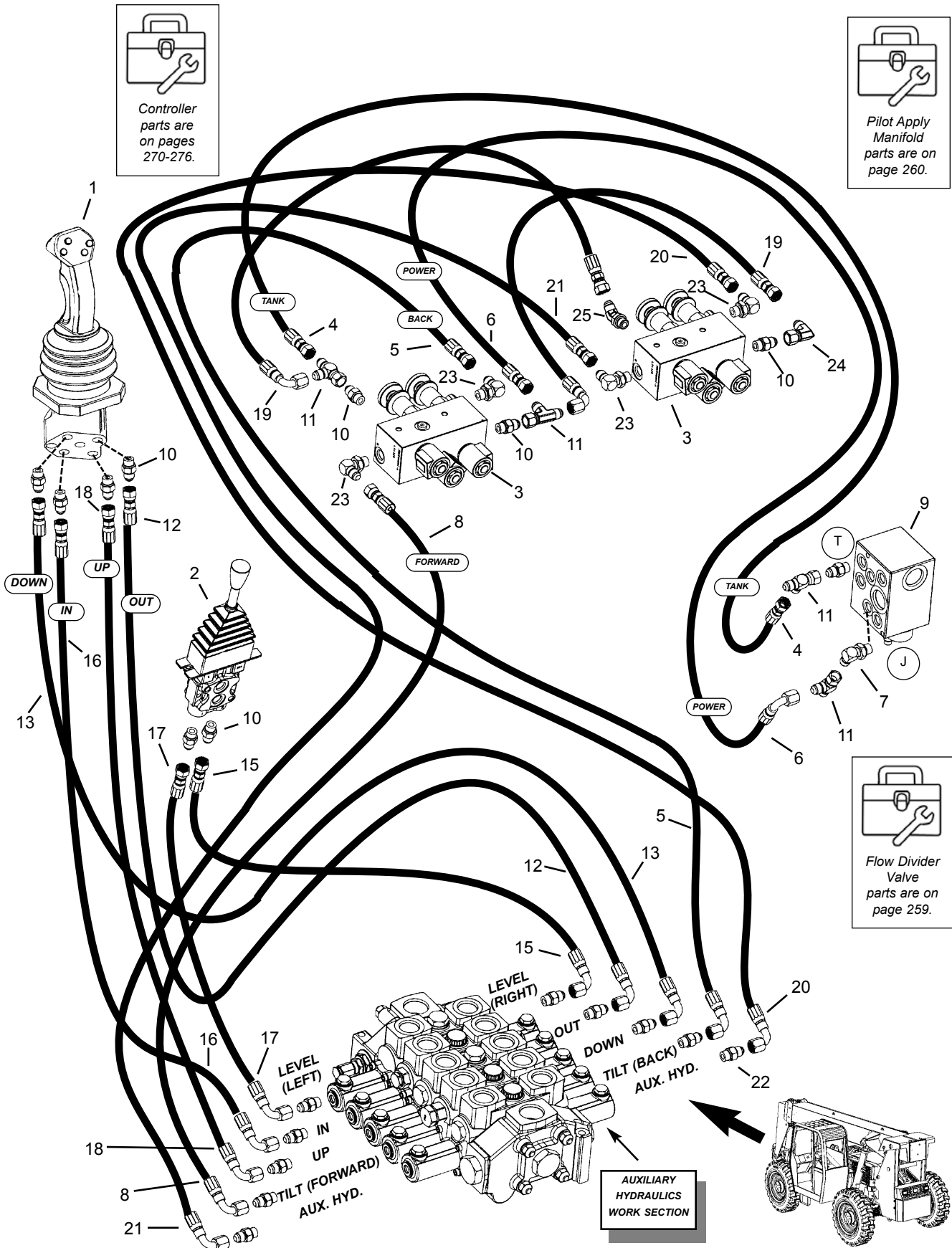
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	104083	CONTROLLER, TRI-FUNCTION . .	1	13	102845	HOSE, -4 A6/DS6 120"	1
02	102435	CONTROLLER	1	15	102844	HOSE, -4 A6/DS6 108"	1
03	106898	PILOT APPLY MANIFOLD.	1	16	102845	HOSE, -4 A6/DS6 120"	1
04	102786	HOSE, -4 A6/A6 54"	1	17	102844	HOSE, -4 A6/DS6 108"	1
05	L68809	HOSE, -4 A6/DS6 136"	1	18	102845	HOSE, -4 A6/DS6 120"	1
06	103318	HOSE, -4 A6/DS6 52"	1	19	103194	ADAP., 1/4BSP -6JICM STR. . . .	AR
07	068938	ADAP., -6ORM -6JICM 90°	1	20	068938	ADAP., -6ORM -6JICM 90°	2
08	102845	HOSE, -4 A6/DS6 120"	1	21	091039	ADAP., 90 MJ06-FJS06.	1
09	102313	FLOW DIVIDER VALVE	1				
10	054994	ADAP., -6ORM -6JICM STR. . . .	AR				
11	072806	ADAP., -6JIC SWIVEL	AR				
12	102845	HOSE, -4 A6/DS6 120"	1				
						-- ITEMS NOT SHOWN--	
				--	104216	HARNESS, TRI-FUNCTION CTRL. .	1



Hydraulics

RS Series

Main Valve - Tri-Function Controller - w/Auxiliary Hydraulics



**Telescopic Handler****Hydraulics*****Main Valve - Tri-Function Controller - w/Auxiliary Hydraulics***

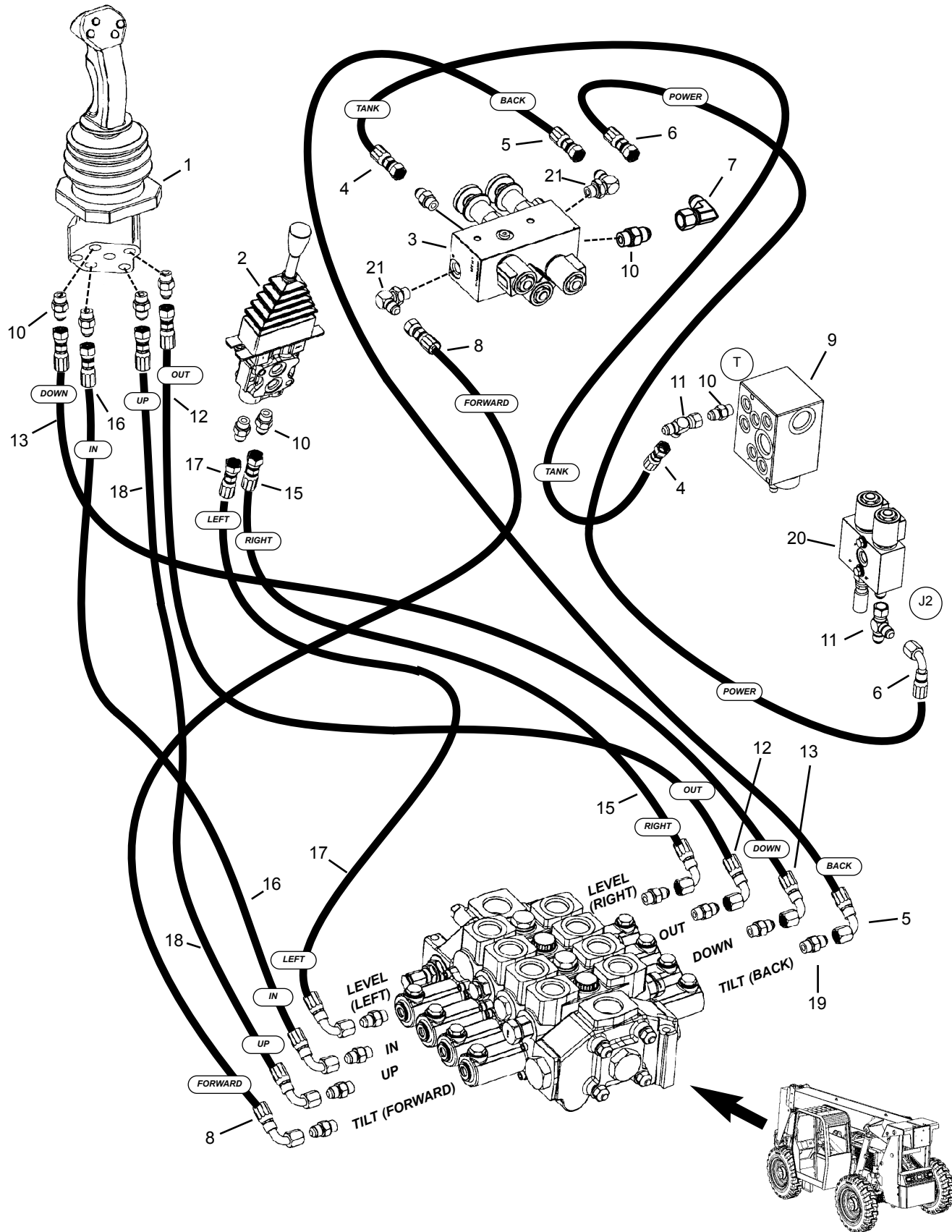
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	104083	CONTROLLER, TRI-FUNCTION ..	1	16	102845	HOSE, -4 A6/DS6 120"	1
02	102435	CONTROLLER	1	17	102844	HOSE, -4 A6/DS6 108"	1
03	106898	PILOT APPLY MANIFOLD.	2	18	102845	HOSE, -4 A6/DS6 120"	1
04	102786	HOSE, -4 A6/A6 54"	1	19	L69903	HOSE, -4 A6/DS6 17"	2
05	L68809	HOSE, -4 A6/DS6 136"	1	20	104221	HOSE, -4 A6/DS6 165"	1
06	103318	HOSE, -4 A6/DS6 52"	1	21	104220	HOSE, -4 A6/DS6 156"	1
07	068938	ADAP., -6ORM -6JICM 90°	AR	22	103194	ADAP., 1/4BSP -6JICM STR....	AR
08	102845	HOSE, -4 A6/DS6 120"	1	23	068938	ADAP., -6ORM -6JICM 90°	4
09	102313	FLOW DIVIDER VALVE	1	24	091039	ADAP., 90 MJ06-FJS06	1
10	054994	ADAP., -6ORM -6JICM STR....	AR	25	079026	ADAP., 45 MJ06-MAORB06	1
11	072806	ADAP., -6JIC SWIVEL	AR			-- ITEMS NOT SHOWN--	
12	102845	HOSE, -4 A6/DS6 120"	1	--	104216	HARNESS, TRI-FUNCTION CNTL.	1
13	102845	HOSE, -4 A6/DS6 120"	1				
15	102844	HOSE, -4 A6/DS6 108"	1				



Hydraulics

Main Valve - Tri-Function Controller - w/PWP

RS Series

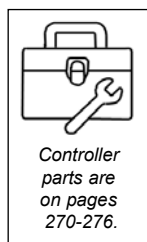
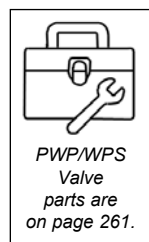
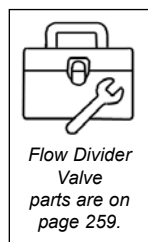
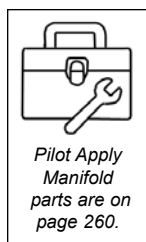


Telescopic Handler

Hydraulics

Main Valve - Tri-Function Controller - w/PWP

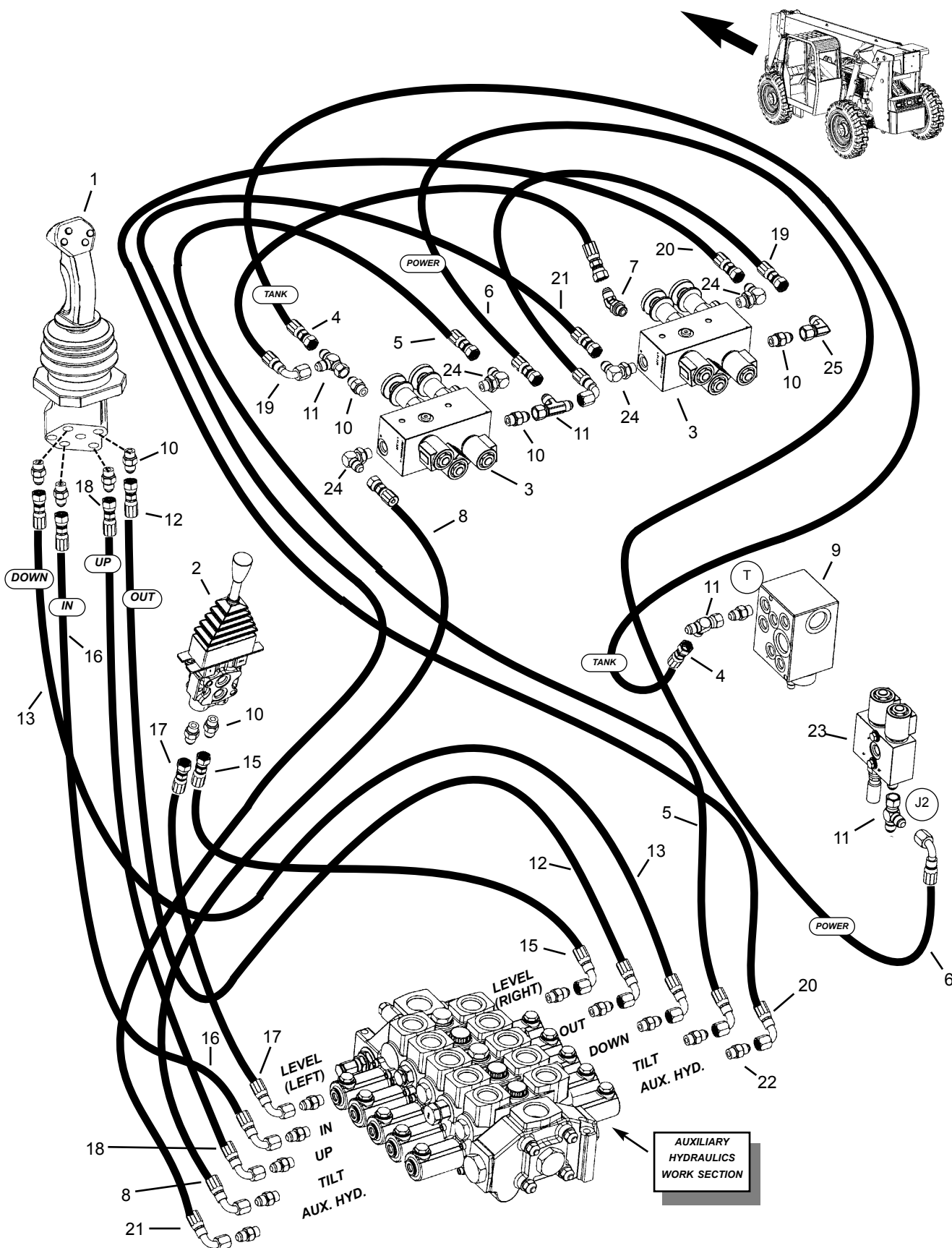
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	104083	CONTROLLER, TRI-FUNCTION	1	13	102845	HOSE, -4 A6/DS6 120"	1
02	102435	CONTROLLER	1	15	102844	HOSE, -4 A6/DS6 108"	1
03	106898	PILOT APPLY MANIFOLD	1	16	102845	HOSE, -4 A6/DS6 120"	1
04	102786	HOSE, -4 A6/A6 54"	1	17	102844	HOSE, -4 A6/DS6 108"	1
05	L68809	HOSE, -4 A6/DS6 136"	1	18	102845	HOSE, -4 A6/DS6 120"	1
06	103318	HOSE, -4 A6/DS6 52"	1	19	103194	ADAP., 1/4BSP -6JICM STR	AR
07	091039	ADAP., 90 MJ06-FJS06	1	20	102321	PWP/WPS VALVE	1
08	102845	HOSE, -4 A6/DS6 120"	1	21	068938	ADAP., -6ORM -6JICM 90°	2
09	102313	FLOW DIVIDER VALVE	1				
10	054994	ADAP., -6ORM -6JICM STR	AR				
11	072806	ADAP., -6JIC SWIVEL	AR				
12	102845	HOSE, -4 A6/DS6 120"	1				
						-- ITEMS NOT SHOWN--	
				--	104216	HARNESS, TRI-FUNCTION CTRL	1



Hydraulics

Main Valve - Tri-Function Controller - w/PWP and Auxiliary Hydraulics

RS Series

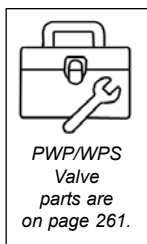
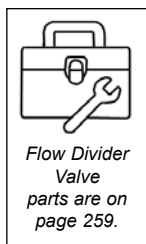
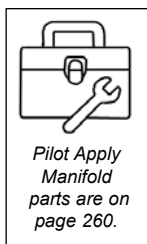
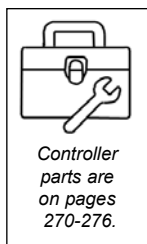


Telescopic Handler

Hydraulics

Main Valve - Tri-Function Controller - w/PWP and Auxiliary Hydraulics

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	104083	CONTROL, TRI-FUNCTION	1	16	102845	HOSE, -4 A6/DS6 120"	1
02	102435	CONTROLLER	1	17	102844	HOSE, -4 A6/DS6 108"	1
03	106898	PILOT APPLY MANIFOLD.	2	18	102845	HOSE, -4 A6/DS6 120"	1
04	102786	HOSE, -4 A6/A6 54"	1	19	L69903	HOSE, -4 A6/DS6 17"	2
05	L68809	HOSE, -4 A6/DS6 136"	1	20	104221	HOSE, -4 A6/DS6 165"	1
06	103318	HOSE, -4 A6/DS6 52"	1	21	104220	HOSE, -4 A6/DS6 156"	1
07	079026	ADAP., 45 MJ06-MAORB06	1	22	103194	ADAP., 1/4BSP -6JICM STR.	AR
08	102845	HOSE, -4 A6/DS6 120"	1	23	102321	MANIFOLD, PWP/WPS	1
09	102313	FLOW DIVIDER VALVE	1	24	068938	ADAP., -6ORM -6JICM 90°	4
10	054994	ADAP., -6ORM -6JICM STR.	AR	25	091039	ADAP., 90 MJ06-FJS06.	1
11	072806	ADAP., -6JIC SWIVEL	AR				
12	102845	HOSE, -4 A6/DS6 120"	1				
13	102845	HOSE, -4 A6/DS6 120"	1				
15	102844	HOSE, -4 A6/DS6 108"	1				
						-- ITEMS NOT SHOWN--	
				--	104216	WIRE HARNESS, TRI-FUNCTION	1

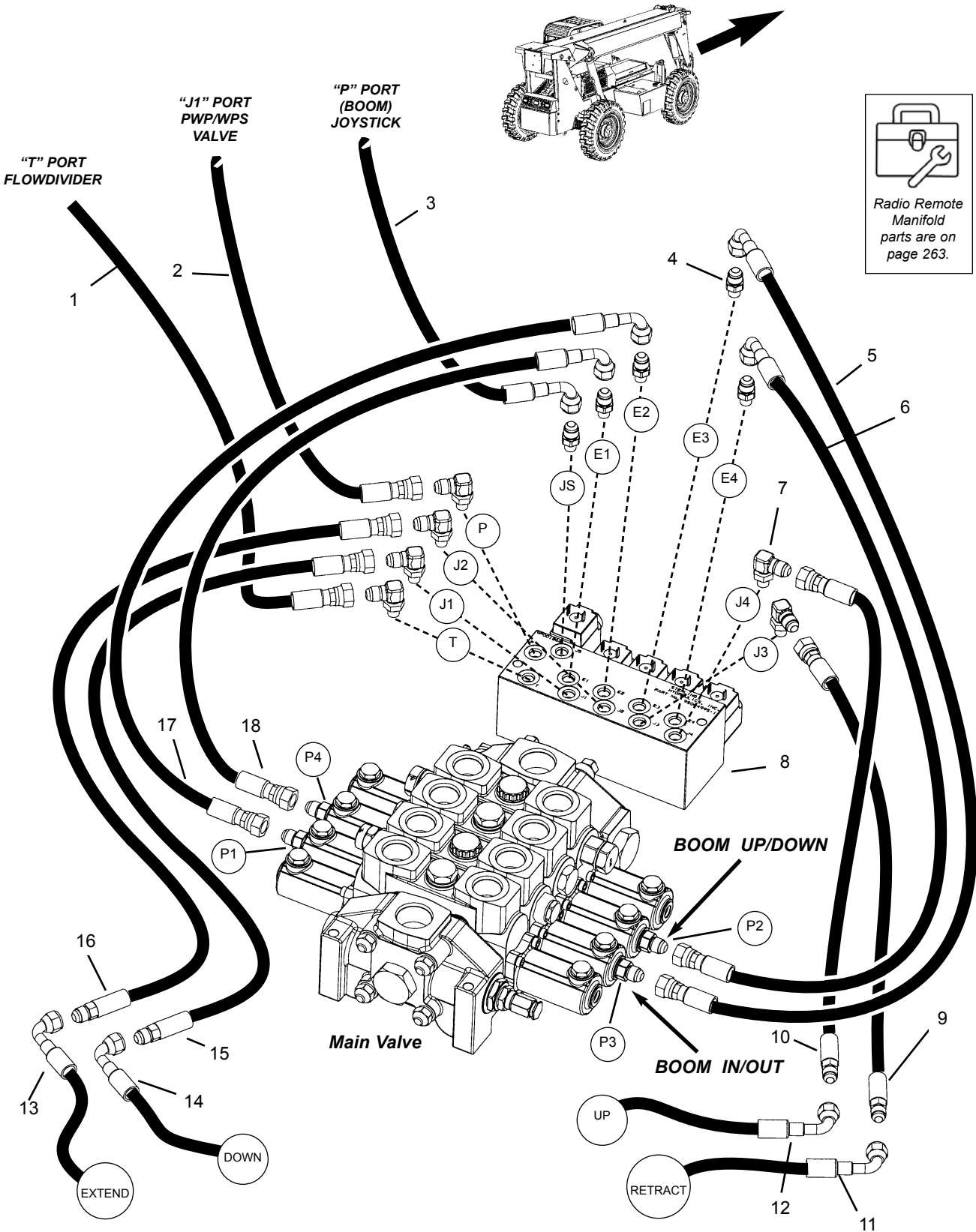




Hydraulics

Main Valve - Radio Remote Control Option

RS Series





Telescopic Handler

Hydraulics

Main Valve - Radio Remote Option

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L69905	HOSE, -6 A6/A6 130"	1	10	L69902	HOSE, -6 A6/H6 20"	1
02	L69906	HOSE, -6 A6/A6 110"	1	11	102844	HOSE, -4 A6/DS6 108"	4
03	103505	HOSE, -4 H6/A6 109"	1	12	102844	HOSE, -4 A6/DS6 108"	4
04	129124	ADAP., -4ORM -6JICM STR	5	13	102844	HOSE, -4 A6/DS6 108"	4
05	L68804	HOSE, -4 A6/DS6 26"	1	14	102844	HOSE, -4 A6/DS6 108"	4
06	L68804	HOSE, -4 A6/DS6 26"	1	15	L69902	HOSE, -6 A6/H6 20"	1
07	137784	ADAP., -4ORM -6JICM 90°	6	16	L69902	HOSE, -6 A6/H6 20"	1
08	103413	MANIFOLD, RADIO REMOTE	1	17	L68804	HOSE, -4 A6/DS6 26"	1
09	L69902	HOSE, -6 A6/H6 20"	1	18	L68804	HOSE, -4 A6/DS6 26"	1



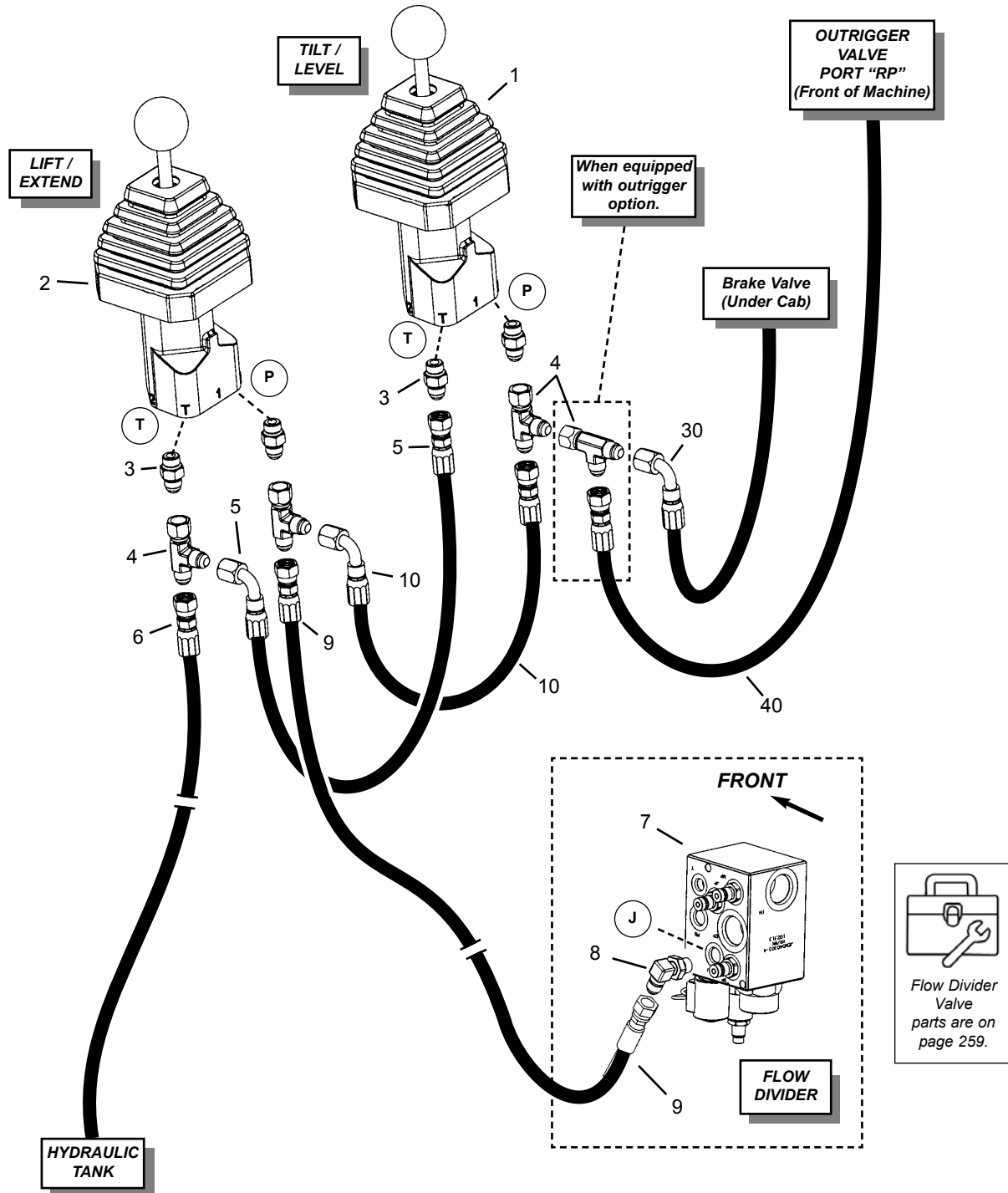
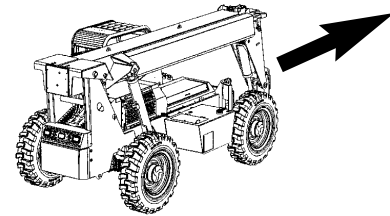
Hydraulics

Dual Controllers

RS Series



Controller parts are on pages 270-276.





Telescopic Handler

Hydraulics Dual Controllers

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102784	CONTROLLER, TILT/LEVEL	1	07	102313	FLOW DIVIDER VALVE	1
02	102434	CONTROLLER, LIFT/EXTEND	1	08	068938	ADAP., -6ORM -6JICM 90°	1
03	054994	ADAP., -6ORM -6JICM STR	4	09	102786	HOSE, -4 A6/A6 54"	1
04	072806	ADAP., -6 SWIVEL RUN TEE	AR	10	L69903	HOSE, -4 A6/DS6 17"	1
05	L69903	HOSE, -4 A6/DS6 17"	1	30	102843	HOSE, -4 A6/DS6 35"	1
06	102843	HOSE, -4 A6/DS6 35"	1	40 ^a	L68810	HOSE, -4 A6/A6 96"	1

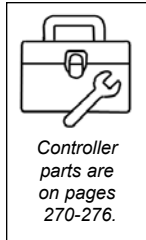
a When equipped with outrigger option.



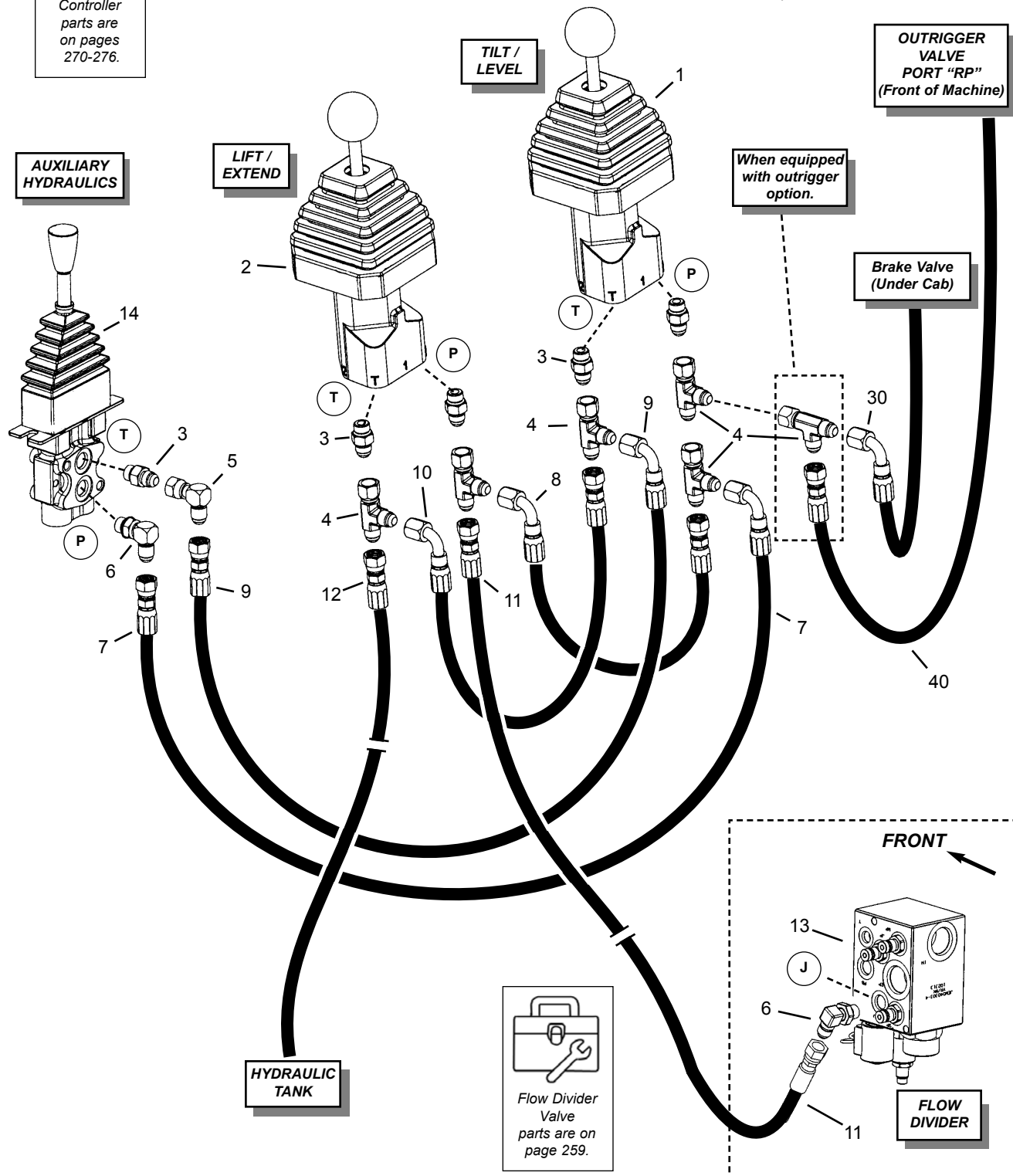
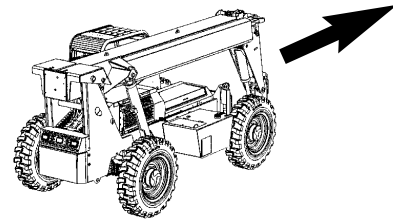
Hydraulics

Dual Controllers - with Auxiliary Hydraulics

RS Series



Controller parts are on pages 270-276.





Telescopic Handler

Hydraulics

Dual Controllers - with Auxiliary Hydraulics

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102784	CONTROLLER, TILT/LEVEL	1	09	L68804	HOSE, -4 A6/DS6 26"	1
02	102434	CONTROLLER, LIFT/EXTEND	1	10	L69903	HOSE, -4 A6/DS6 17"	1
03	054994	ADAP, -6ORM -6JICM STR	AR	11	102786	HOSE, -4 A6/A6 54"	1
04	072806	ADAP, -6 SWIVEL RUN TEE	AR	12	102843	HOSE, -4 A6/DS6 35"	1
05	091039	ADAP, -6JICM -6JICFS 90°	AR	13	102313	FLOW DIVIDER VALVE	1
06	068938	ADAP, -6ORM -6JICM 90°	AR	14	102435	CONTROLLER, AUX. HYD.	1
07	L68804	HOSE, -4 A6/DS6 26"	1	30	102843	HOSE, -4 A6/DS6 35"	1
08	L69903	HOSE, -4 A6/DS6 17"	1	40 ^a	L68810	HOSE, -4 A6/A6 96"	1

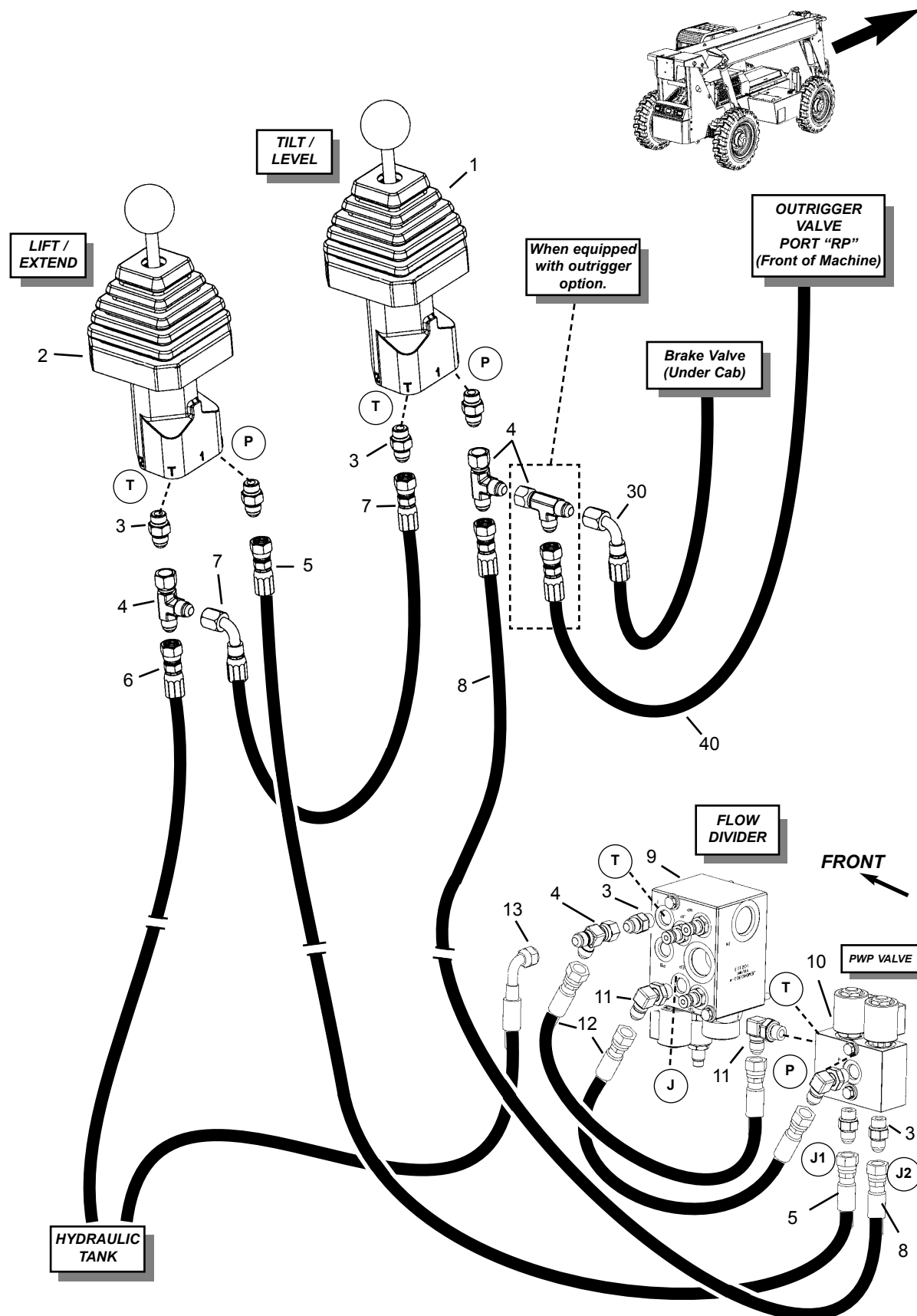
a When equipped with outrigger option.



Hydraulics

Dual Controllers - with PWP

RS Series





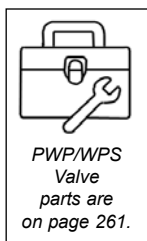
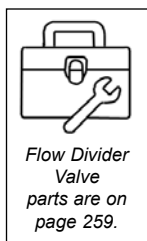
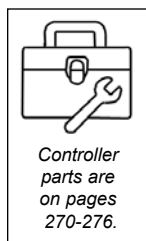
Telescopic Handler

Hydraulics

Dual Controllers - with PWP

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102784	CONTROLLER, TILT/LEVEL	1	09	102313	FLOW DIVIDER VALVE	1
02	102434	CONTROLLER, LIFT/EXTEND	1	10	102321	PWP/WPS VALVE	1
03	054994	ADAP, -6ORM -6JICM STR	AR	11	068938	ADAP, -6ORM -6JICM 90°	2
04	072806	ADAP, -6 SWIVEL RUN TEE	AR	12	L63381	HOSE, -4 A6/A6 15"	2
05	102786	HOSE, -4 A6/A6 54"	1	13	102946	HOSE, -6AS/DS6 18"	1
06	102843	HOSE, -4 A6/DS6 35"	1	30	102843	HOSE, -4 A6/DS6 35"	1
07	L69903	HOSE, -4 A6/DS6 17"	1	40 ^a	L68810	HOSE, -4 A6/A6 96"	1
08	102786	HOSE, -4 A6/A6 54"	1				

a When equipped with outrigger option.

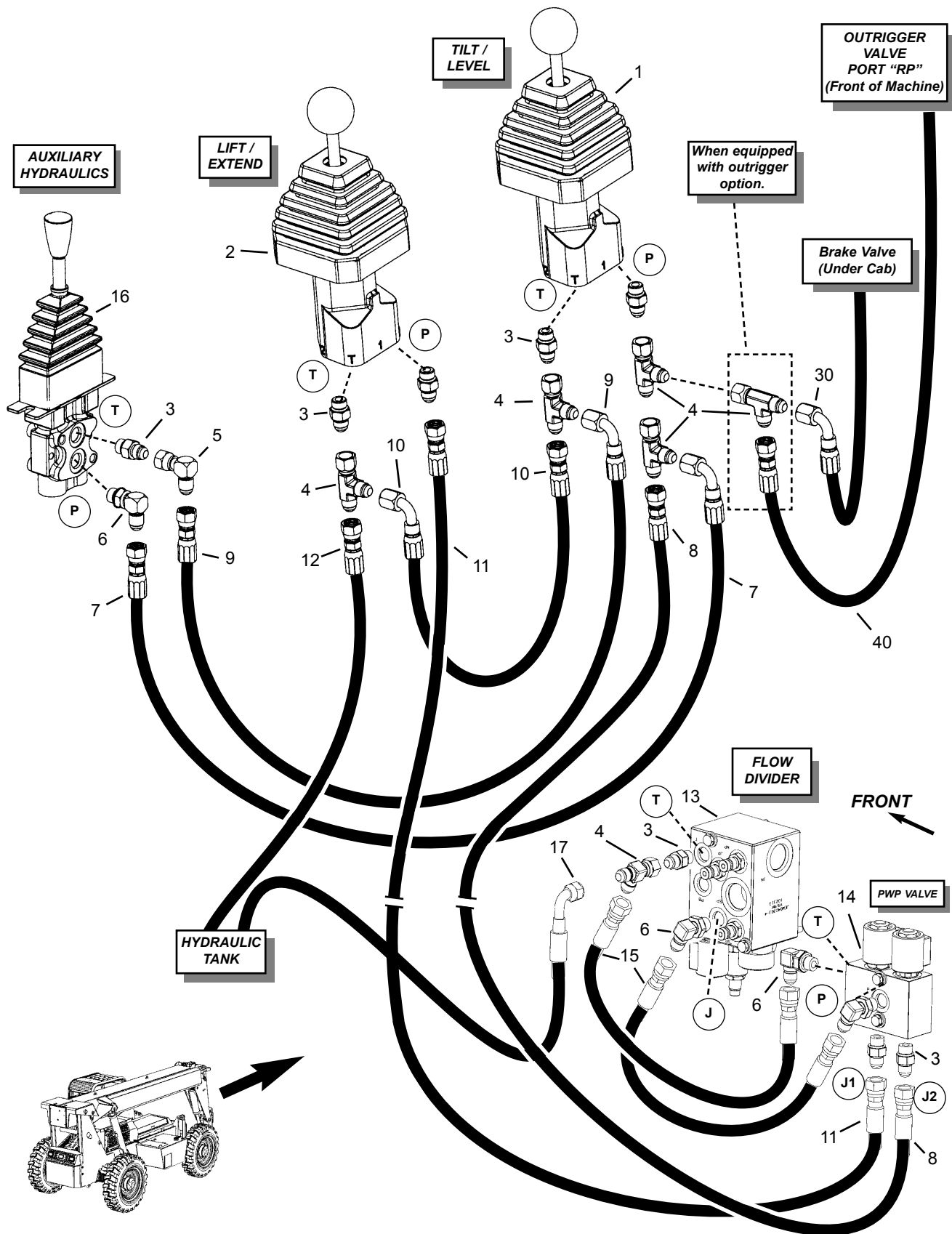




Hydraulics

Dual Controllers - with PWP/Auxiliary Hydraulics

RS Series





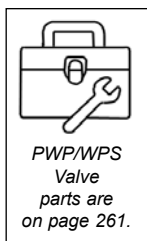
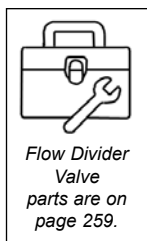
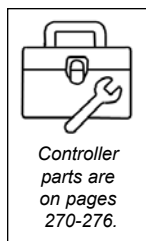
Telescopic Handler

Hydraulics

Dual Controllers - with PWP/Auxiliary Hydraulics

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102784	CONTROLLER, TILT/LEVEL	1	12	102843	HOSE, -4 A6/DS6 35"	1
02	102434	CONTROLLER, LIFT/EXTEND	1	13	102313	FLOW DIVIDER VALVE	1
03	054994	ADAP, -6ORM -6JICM STR	AR	14	102321	PWP/WPS VALVE	1
04	072806	ADAP, -6 SWIVEL RUN TEE	AR	15	L63381	HOSE, -4 A6/A6 15"	1
05	091039	ADAP, -6JICM -6JICFS 90°	AR	16	102435	CONTROLLER, AUX. HYD.	1
06	068938	ADAP, -6ORM -6JICM 90°	AR	17	102946	HOSE, -6 A6/DS6 18"	1
07	L68804	HOSE, -4 A6/DS6 26"	1	30	102843	HOSE, -4 A6/DS6 35"	1
08	102786	HOSE, -4 A6/A6 54"	1	40 ^a	L68810	HOSE, -4 A6/A6 96"	1
09	L68804	HOSE, -4 A6/DS6 26"	1				
10	L69903	HOSE, -4 A6/DS6 17"	1				
11	102786	HOSE, -4 A6/A6 54"	1				

a When equipped with outrigger option.

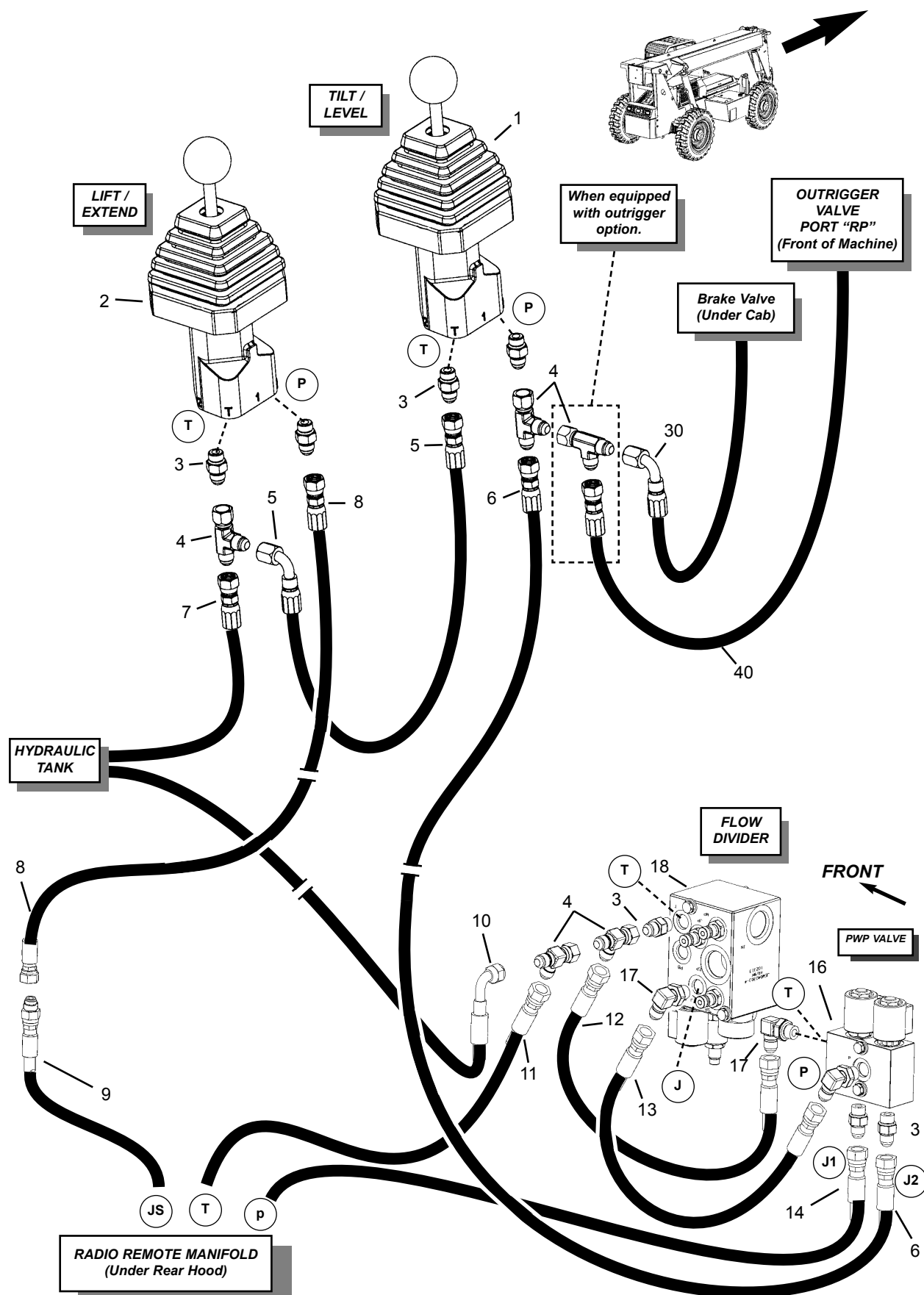




Hydraulics

Dual Controllers - Radio Remote

RS Series





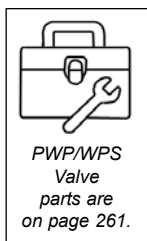
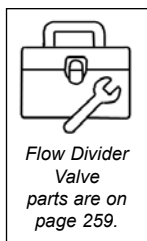
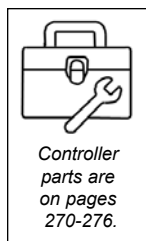
Telescopic Handler

Hydraulics

Dual Controllers - Radio Remote

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102784	CONTROLLER, TILT/LEVEL	1	11	L69905	HOSE, -6 A6/A6 130"	1
02	102434	CONTROLLER, LIFT/EXTEND	1	12	L63381	HOSE, -4 A6/A6 15"	1
03	054994	ADAP, -6ORM -6JICM STR	AR	13	L63381	HOSE, -4 A6/A6 15"	1
04	072806	ADAP, -6 SWIVEL RUN TEE	AR	14	L69906	HOSE, -6 A6/A6 110"	1
05	L69903	HOSE, -4 A6/DS6 17"	1	16	102321	PWP/WPS VALVE	1
06	102786	HOSE, -4 A6/A6 54"	1	17	068938	ADAP, -6ORM -6JICM 90°	AR
07	102843	HOSE, -4 A6/D6 35"	1	18	102313	FLOW DIVIDER VALVE	1
08	102786	HOSE, -4 A6/A6 54"	1	30	102843	HOSE, -4 A6/DS6 35"	1
09	103505	HOSE, -4 H6/A6 109"	1	40 ^a	L68810	HOSE, -4 A6/A6 96"	1
10	102946	HOSE, -6 A6/DS6 18"	1				

a When equipped with outrigger option.



HOSE LOCATOR

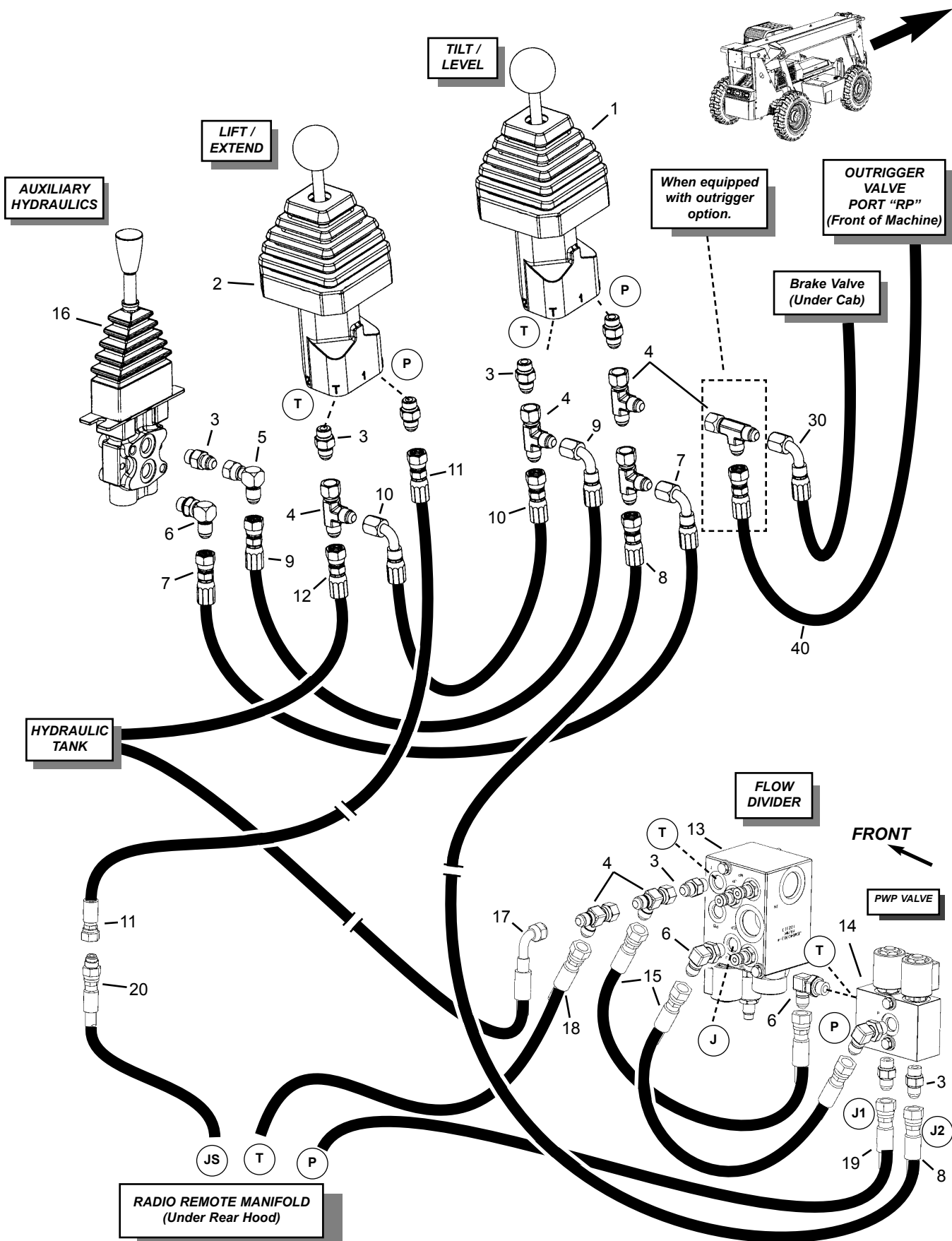
09	CONNECTS TO LIFT/EXTEND "P" HOSE	RADIO REMOTE MANIFOLD "JS" PORT
11	TEE ON FLOW DIVER "T" PORT	RADIO REMOTE MANIFOLD "T" PORT
14	PWP/WPS VALVE "JI" PORT	RADIO REMOTE MANIFOLD "P" PORT



Hydraulics

Dual Controllers - Radio Remote - with Auxiliary Hydraulics

RS Series





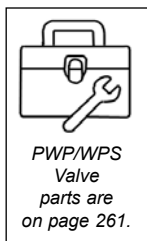
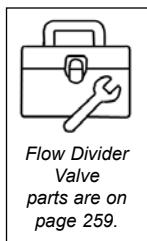
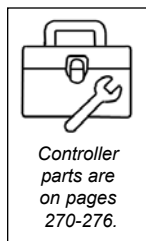
Telescopic Handler

Hydraulics

Dual Controllers - Radio Remote - with Auxiliary Hydraulics

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102784	CONTROLLER, TILT/LEVEL	1	13	102313	FLOW DIVIDER VALVE	1
02	102434	CONTROLLER, LIFT/EXTEND	1	14	102321	PWP/WPS VALVE	1
03	054994	ADAP., -6ORM -6JICM STR.	AR	15	L63381	HOSE, -4 A6/A6 15"	1
04	072806	ADAP., -6 SWIVEL RUN TEE.	AR	16	102435	CONTROLLER, AUX. HYD.	1
05	091039	ADAP., -6JICM -6JICFS 90°	AR	17	102946	HOSE, -6 A6/DS6 18"	1
06	068938	ADAP., -6ORM -6JICM 90°	AR	18	L69905	HOSE, -6 A6/A6 130"	1
07	L68804	HOSE, -4 A6/DS6 26"	1	19	L69906	HOSE, -6 A6/A6 110"	1
08	102786	HOSE, -4 A6/A6 54"	1	20	103505	HOSE, -4 H6/A6 109"	1
09	L68804	HOSE, -4 A6/DS6 26"	1	30	102843	HOSE, -4 A6/DS6 35"	1
10	L69903	HOSE, -4 A6/DS6 17"	1	40 ^a	L68810	HOSE, -4 A6/A6 96"	1
11	102786	HOSE, -4 A6/A6 54"	1				
12	102843	HOSE, -4 A6/DS6 35"	1				

a When equipped with outrigger option.



HOSE LOCATOR

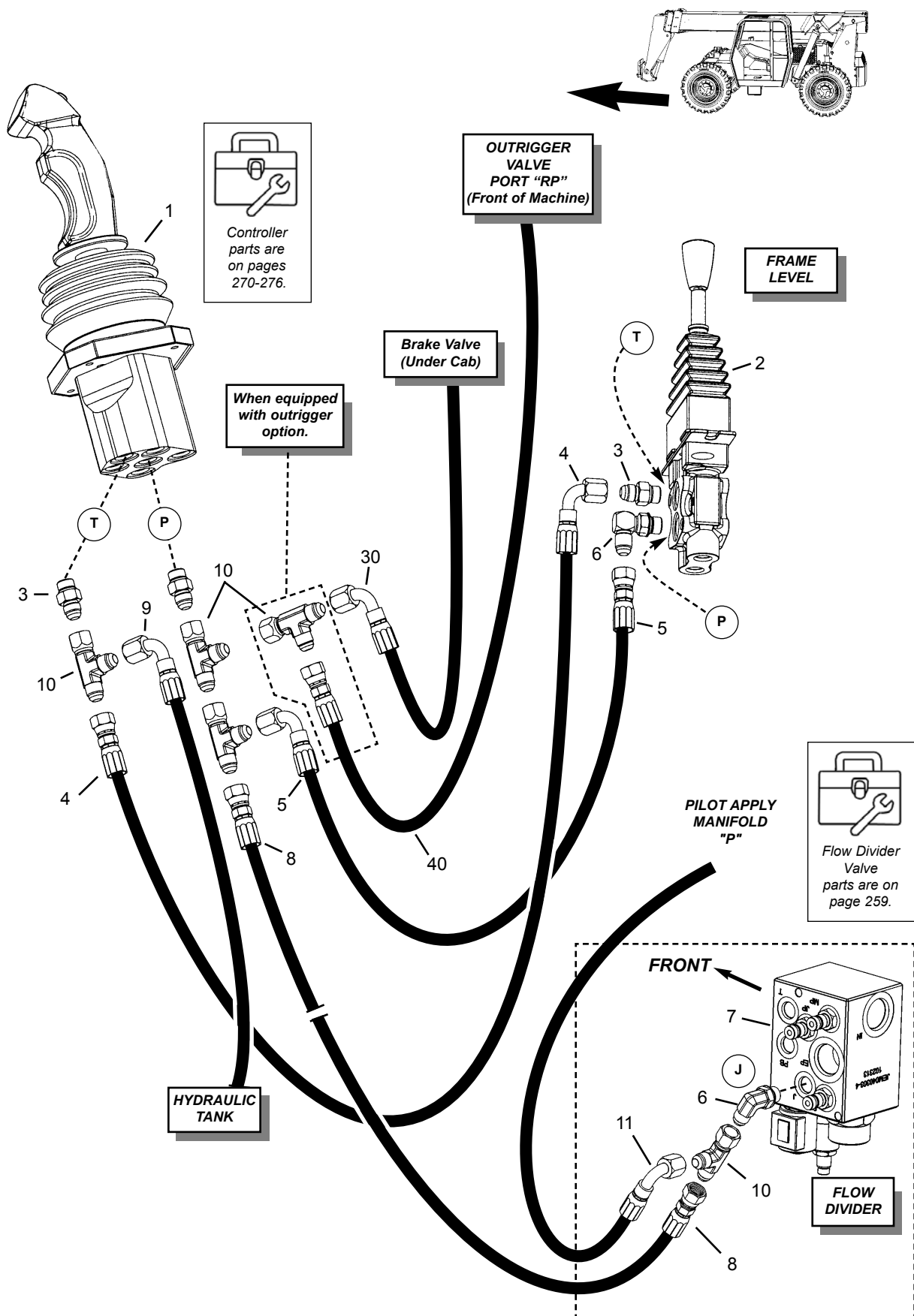
18	TEE ON FLOW DIVER "T" PORT	RADIO REMOTE MANIFOLD "T" PORT
19	PWP/WPS VALVE "JI" PORT	RADIO REMOTE MANIFOLD "P" PORT
20	CONNECTS TO LIFT/EXTEND "P" HOSE	RADIO REMOTE MANIFOLD "JS" PORT



Hydraulics

Tri-Function Controller

RS Series





Telescopic Handler

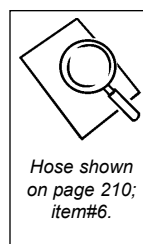
Hydraulics Tri-Function Controller

Ref. No.	Part No.	Description	Qty. Req.
01	104083	CONTROLLER, TRI-FUNCTION . . .	1
02	102435	CONTROLLER	1
03	054994	ADAP., -6ORM -6JICM STR	3
04	L69903	HOSE, -4 A6/DS6 17"	1
05	L69903	HOSE, -4 A6/DS6 17"	1
06	068938	ADAP., -6ORM -6JICM 90°	2
07	102313	FLOW DIVIDER VALVE	1

Ref. No.	Part No.	Description	Qty. Req.
08	102786	HOSE, -4 A6/A6 54"	1
09	102843	HOSE, -4 A6/DS6 35"	1
10	072806	ADAP., -6JIC SWIVEL	3
11 ^b	103318	HOSE, -4 A6/DS6 52"	1
30	102843	HOSE, -4 A6/DS6 35"	1
40 ^a	L68810	HOSE, -4 A6/A6 96"	1

a When equipped with outrigger option.

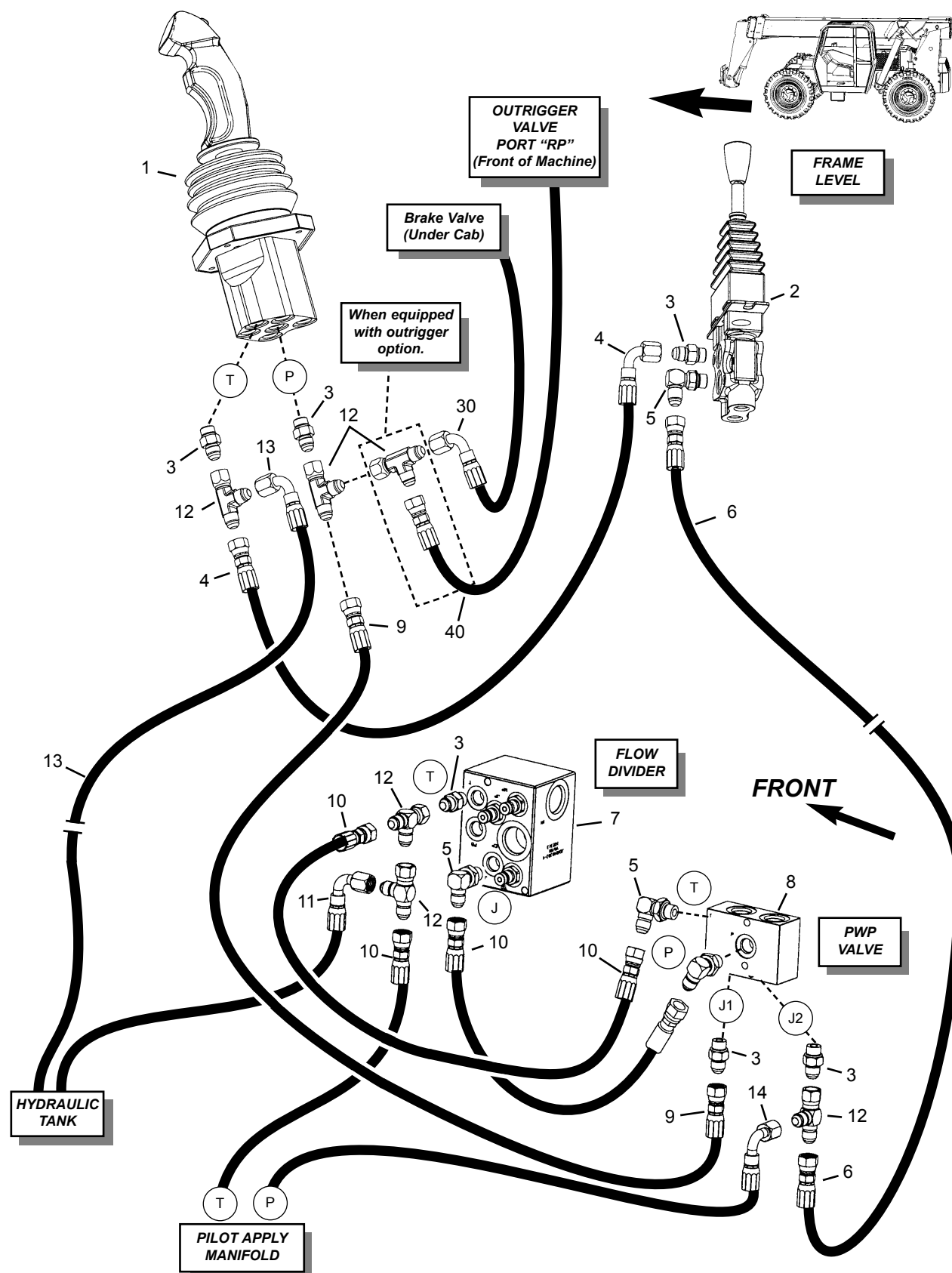
b



Hydraulics

Tri-Function Controller - with PWP

RS Series





Telescopic Handler

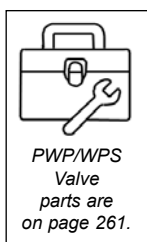
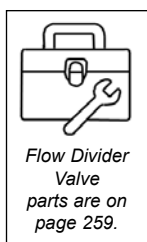
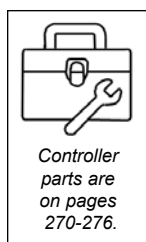
Hydraulics

Tri-Function Controller - with PWP

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	104083	CONTROL, TRI-FUNCTION	1	12	072806	ADAP., -6JIC SWIVEL	AR
02	102435	CONTROLLER	1	13	102843	HOSE, -4 A6/DS6 35"	1
03	054994	ADAP., -6ORM -6JICM STR.	AR	14 ^b	103318	HOSE, -4 A6/DS6 52"	1
04	L69903	HOSE, -4 A6/DS6 17"	1	30	102843	HOSE, -4 A6/DS6 35"	1
05	068938	ADAP., -6ORM -6JICM 90°.	AR	40 ^a	L68810	HOSE, -4 A6/A6 96"	1
06	102786	HOSE, -4 A6/A6 54"	1				
07	102313	FLOW DIVIDER VALVE	1				
08	102321	MANIFOLD, PWP	1				
09	102786	HOSE, -4 A6/A6 54"	1				
10	L63381	HOSE, -4 A6/A6 15"	3				
11	102946	HOSE, -6 A6/DS6 18"	1				

a When equipped with outrigger option.

b Attaches to "P" (power) on the pilot apply manifold; refer to page 210; item 6.

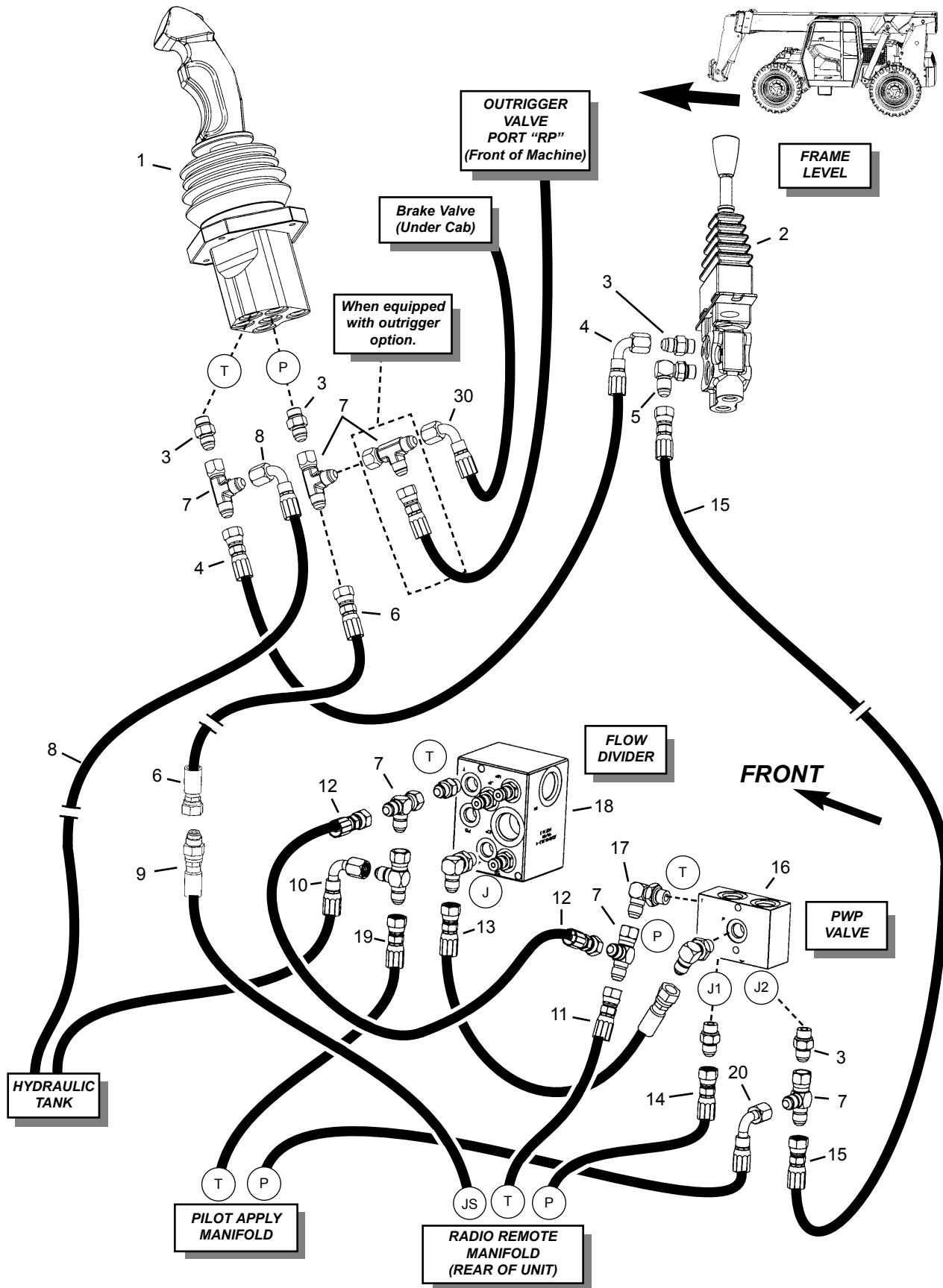




Hydraulics

Tri-Function Controller - Radio Remote

RS Series





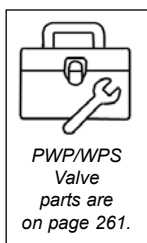
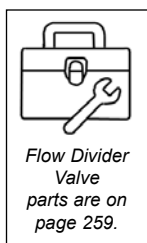
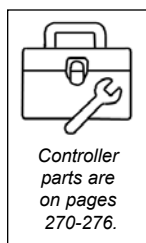
Telescopic Handler

Hydraulics

Tri-Function Controller - Radio Remote

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	104083	CONTROLLER, TRI-FUNCTION . . .	1	13	L63381	HOSE, -4 A6/A6 15"	1
02	102435	CONTROLLER	1	14	L69906	HOSE, -6 A6/A6 110"	1
03	054994	ADAP., -6ORM -6JICM STR.	AR	15	102786	HOSE, -4 A6/A6 54"	1
04	L69903	HOSE, -4 A6/DS6 17"	1	16	102321	PWP/WPS VALVE	1
05	068938	ADAP., -6ORM -6JICM 90°	AR	17	068938	ADAP., -6ORM -6JICM 90°	2
06	102786	HOSE, -4 A6/A6 54"	1	18	102313	FLOW DIVIDER VALVE	1
07	072806	ADAP., -6 SWIVEL RUN TEE.	AR	19	102786	HOSE, -4 A6/A6 54"	1
08	102843	HOSE, -4 A6/D6 35"	1	20	103318	HOSE, -4 A6/DS6 52"	1
09	103505	HOSE, -4 H6/A6 109"	1	30	102843	HOSE, -4 A6/DS6 35"	1
10	102946	HOSE, -6 A6/DS6 18"	1	40 ^a	L68810	HOSE, -4 A6/A6 96"	1
11	L69905	HOSE, -6 A6/A6 130"	1				
12	L63381	HOSE, -4 A6/A6 15"	1				

a When equipped with outrigger option.



HOSE LOCATOR

09	CONNECTS TO "P" HOSE	RADIO REMOTE MANIFOLD "JS" PORT
11	TEE ON PWP/WPS "T" PORT	RADIO REMOTE MANIFOLD "T" PORT
14	PWP/WPS VALVE "J1" PORT	RADIO REMOTE MANIFOLD "P" PORT
19	TEE ON FLOWDIVIDER "T" PORT	PILOT APPLY MANIFOLD "T" PORT
20	TEE ON PWP/WPS "J2" PORT	PILOT APPLY MANIFOLD "P" PORT

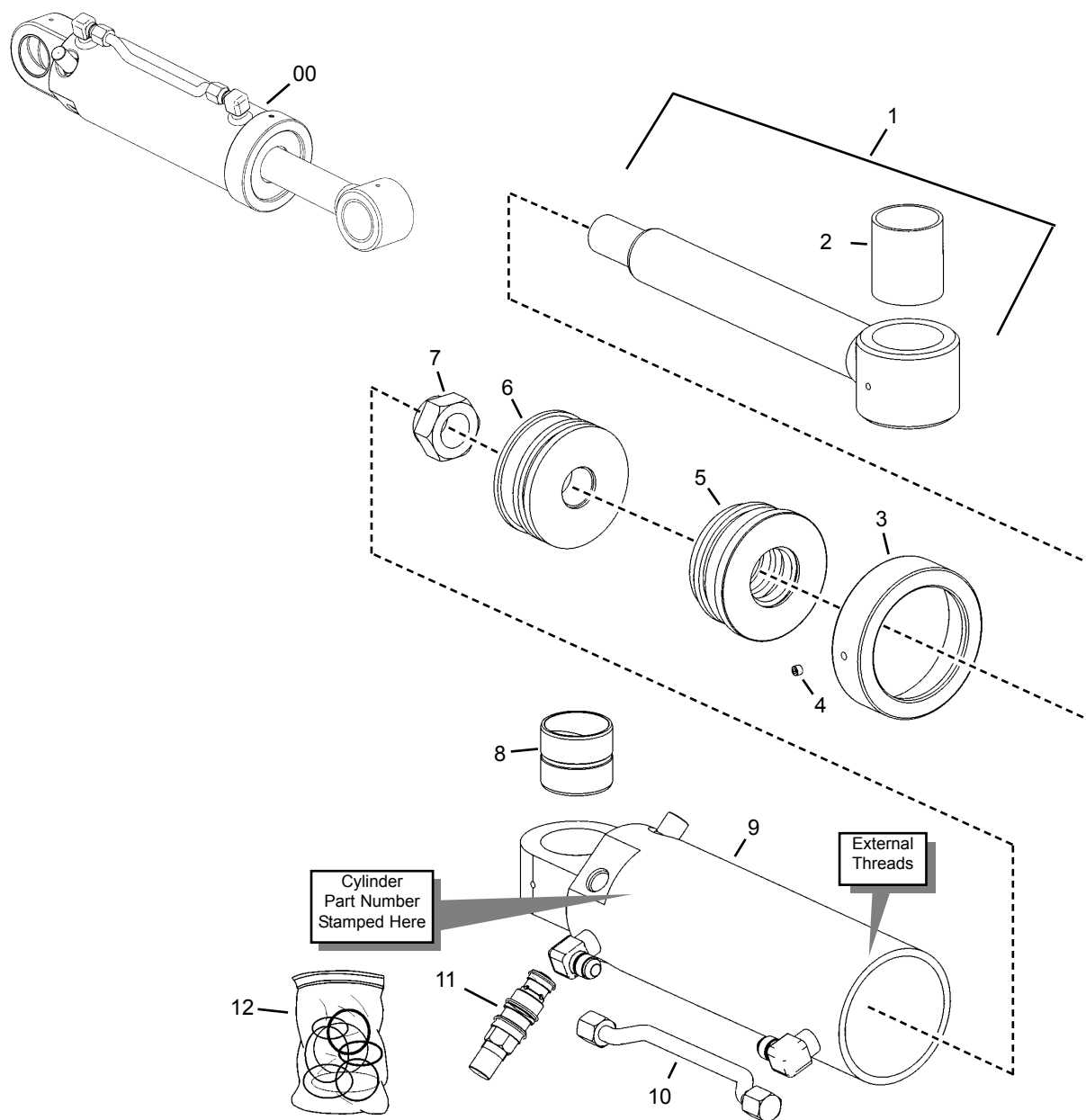
NOTE: Refer to the section Main Valve - Radio Remote Option for more information.



Hydraulic Cylinders

Frame Level

RS Series



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	102876	FRAME LEVEL CYLINDER.....	1	09	NSS	TUBE WELDMENT.....	1
01	L98503	ROD (includes item #2).....	1	10	L98509	OIL LINE TUBE ASSEMBLY.....	1
02	L63016	BUSHING.....	1	11	102878	COUNTER BALANCE VALVE.....	2
03	L98547	HEAD GLAND CAP.....	1		104820	SEAL KIT (CBV).....	1
04	L99857	5/16"-18x1/4" SET SCREW.....	1	12 ^a	L98506	CYLINDER SEAL KIT.....	1
05	L98507	HEAD GLAND.....	1				
06	L98550	PISTON.....	1				
07	L99405	1-1/4"-12 UNF LOCKNUT.....	1				
08	L64367	BUSHING 2.0X2.25X2.0".....	1				

a

Items included with seal kit are not shown.

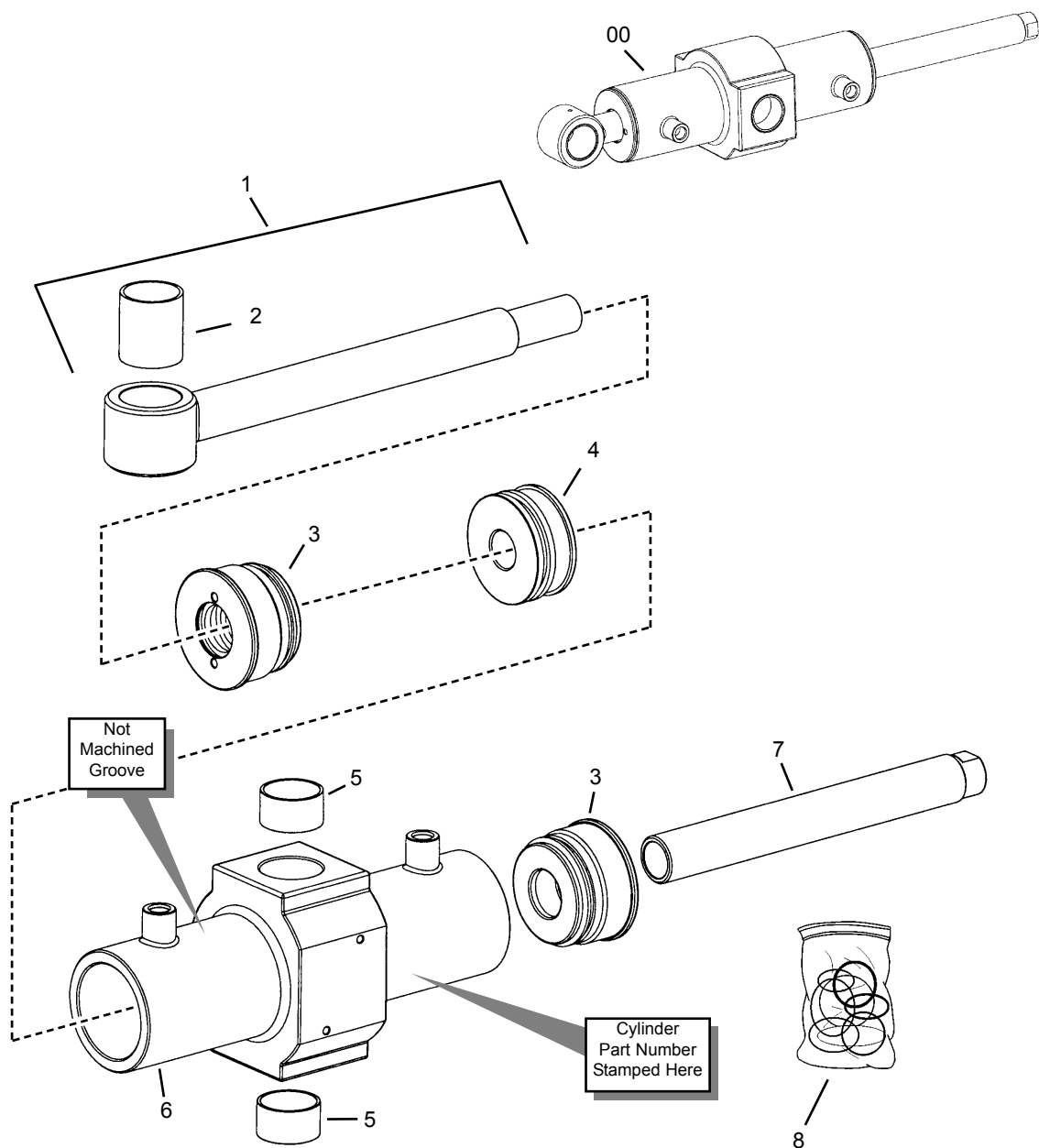


IMPORTANT: Before ordering any replacement parts, verify the part number stamped on the cylinder.



Telescopic Handler

Hydraulic Cylinders Frame Stabilizing



Ref. No.	Part No.	Description	Qty. Req.
00	102247	STABILIZING CYLINDER	1
01	103011	ROD WELDMENT	1
		(includes item #2)	
02	L69138	BUSHING	1
03	L99937	HEAD GLAND	2
04	L99938	PISTON	1
05	L69774	BUSHING	2

Ref. No.	Part No.	Description	Qty. Req.
06	NSS	TUBE WELDMENT	1
07	L99935	CYLINDER ROD	1
08 ^a	L99942	SEAL KIT	1

^a Items included with seal kit are not shown.

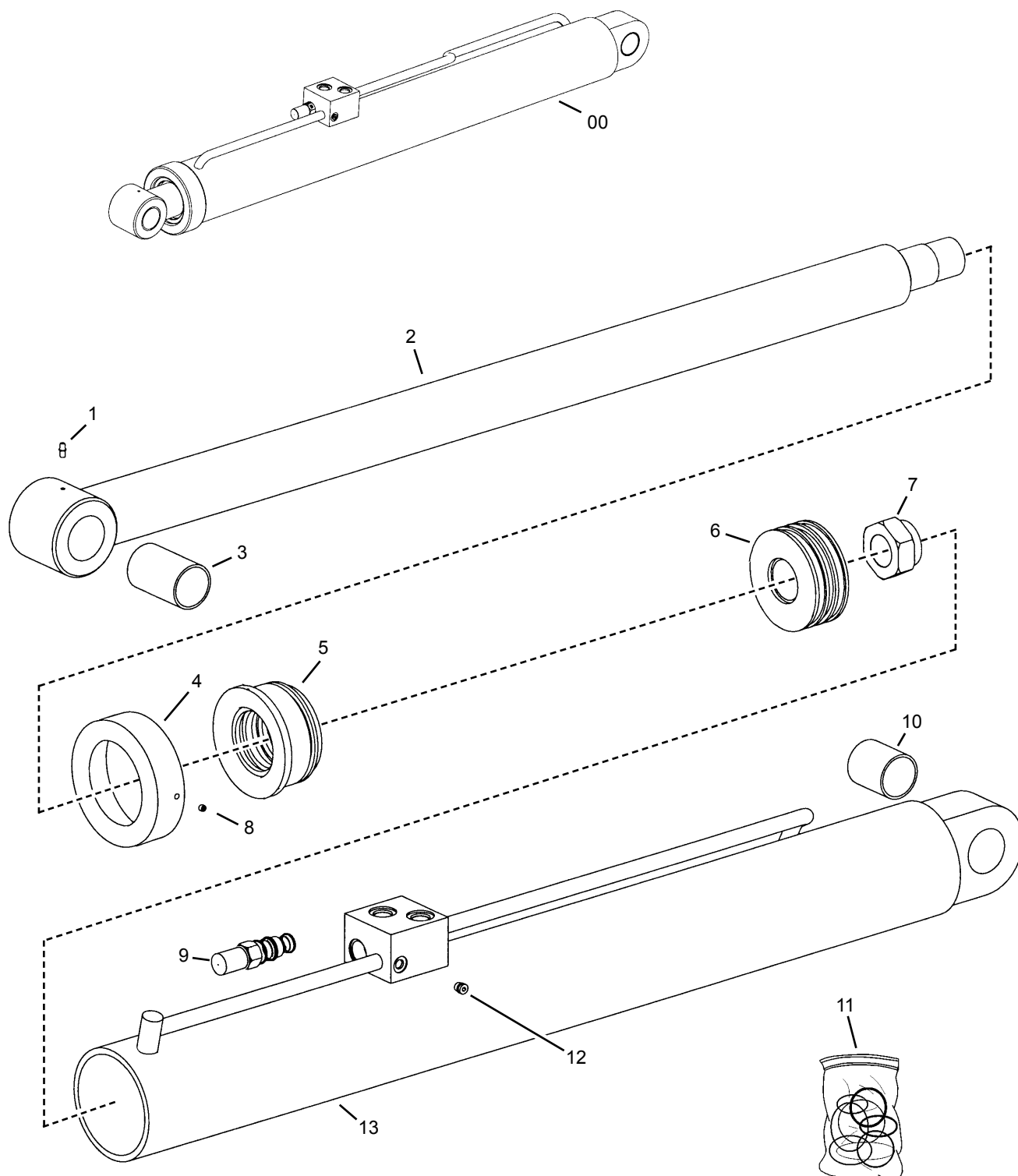
IMPORTANT: Before ordering any replacement parts, verify the part number stamped on the cylinder.



Hydraulic Cylinders

Boom Lift

RS Series





Telescopic Handler

Hydraulic Cylinders

Boom Lift

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	L69135	BOOM LIFT CYLINDER	2	09	L70502	CBAL VALVE	1
01	L10465	1/4"-28 GREASE ZERK.	1		L96838	CB VALVE SEAL KIT.	1
02	L99853	ROD WELDMENT (<i>incls. item #3</i>)	1	10	L69138	BUSHING (<i>base end</i>)	1
03	L69142	BUSHING (<i>rod end</i>)	1	11 ^a	L99849	CYLINDER SEAL KIT	1
04	L99856	HEAD GLAND CAP.		12	L99917	PLUG -4	1
05	L99854	HEAD GLAND	1	13	NSS	CYLINDER TUBE WELDMENT . . .	1
06	L99851	PISTON	1				
07	L99122	1-3/4"-12 UNF LOCKNUT	1				
08	L99857	5/16"-18X1/4" SET SCREW	1				

a Items included in the seal kit are not shown.

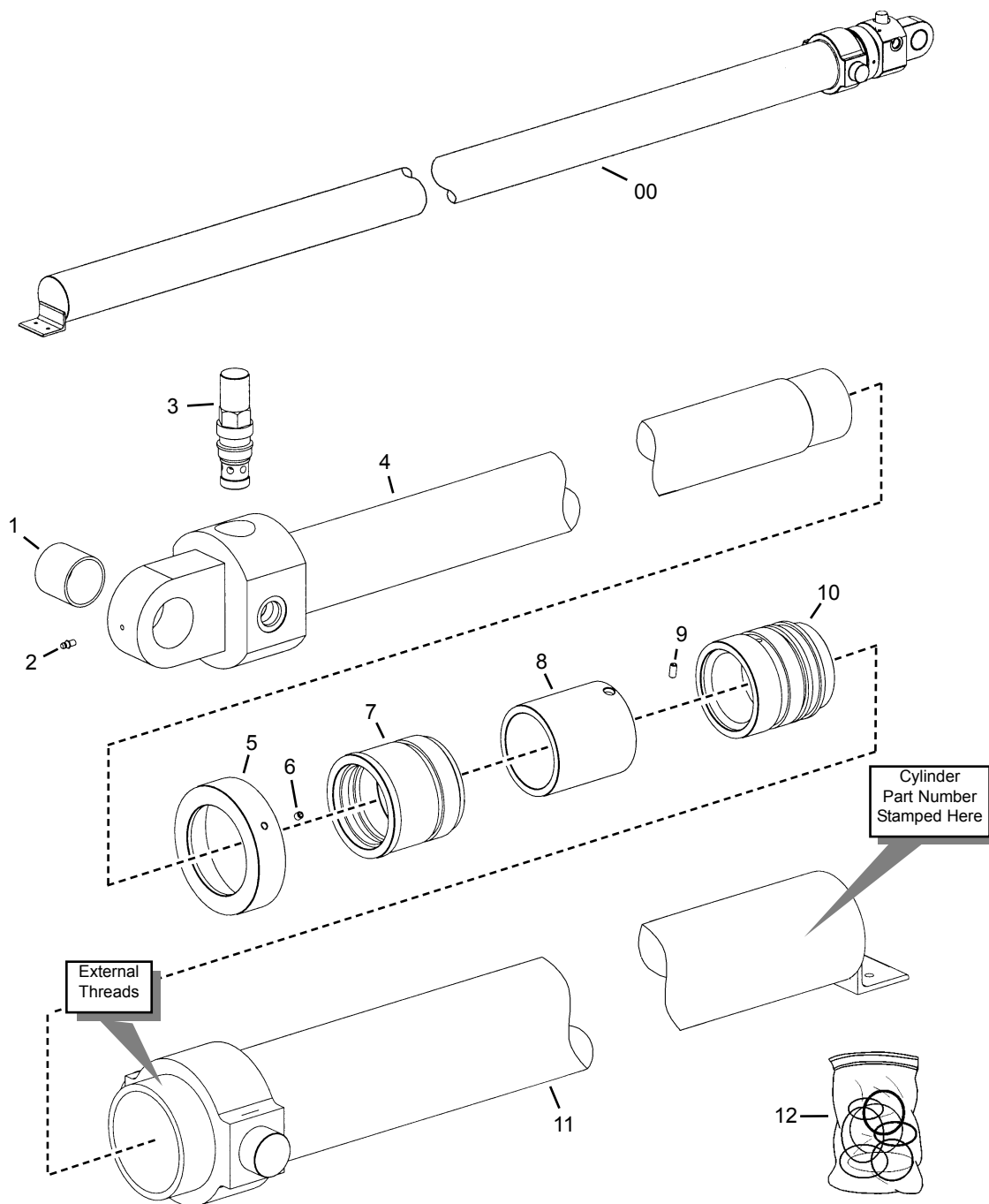


Hydraulic Cylinders

RS Series

Boom Extend - 3-Section Boom

(Cylinder is stamped with P/N 102543 or 102544)





Telescopic Handler

Hydraulic Cylinders

Boom Extend - 3-Section Boom

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00		BOOM EXTEND CYLINDER. 1		08	102890	ROD SPACER. 1	
	102543	42' 3-Section Boom		09	L99875	5/16"-18X5/8" SET SCREW 1	
	102544	44' 3-Section Boom		10	L99874	PISTON. 1	
01	L64367	BUSHING (rod end). 1		11	NSS	CYLINDER TUBE WELDMENT ... 1	
02	L10465	1/4"-28 GREASE ZERK. 1		12 ^a	L99873	CYLINDER SEAL KIT. 1	
03	L70274	COUNTER BALANCE VALVE. 1					
	L99943	CBAL VALVE SEAL KIT. 1					
04		ROD WELDMENT. 1					
		(includes item #1)					
	L99881	42' 3-Section Boom					
	102889	44' 3-Section Boom					
05	L500582	HEAD GLAND CAP. 1					
06	137220	5/16"-18X5/16" SET SCREW 1					
07	L99053	HEAD GLAND. 1					

a Items included in the seal kit are not shown.



IMPORTANT: Before ordering any replacement parts, verify the part number stamped on the cylinder.

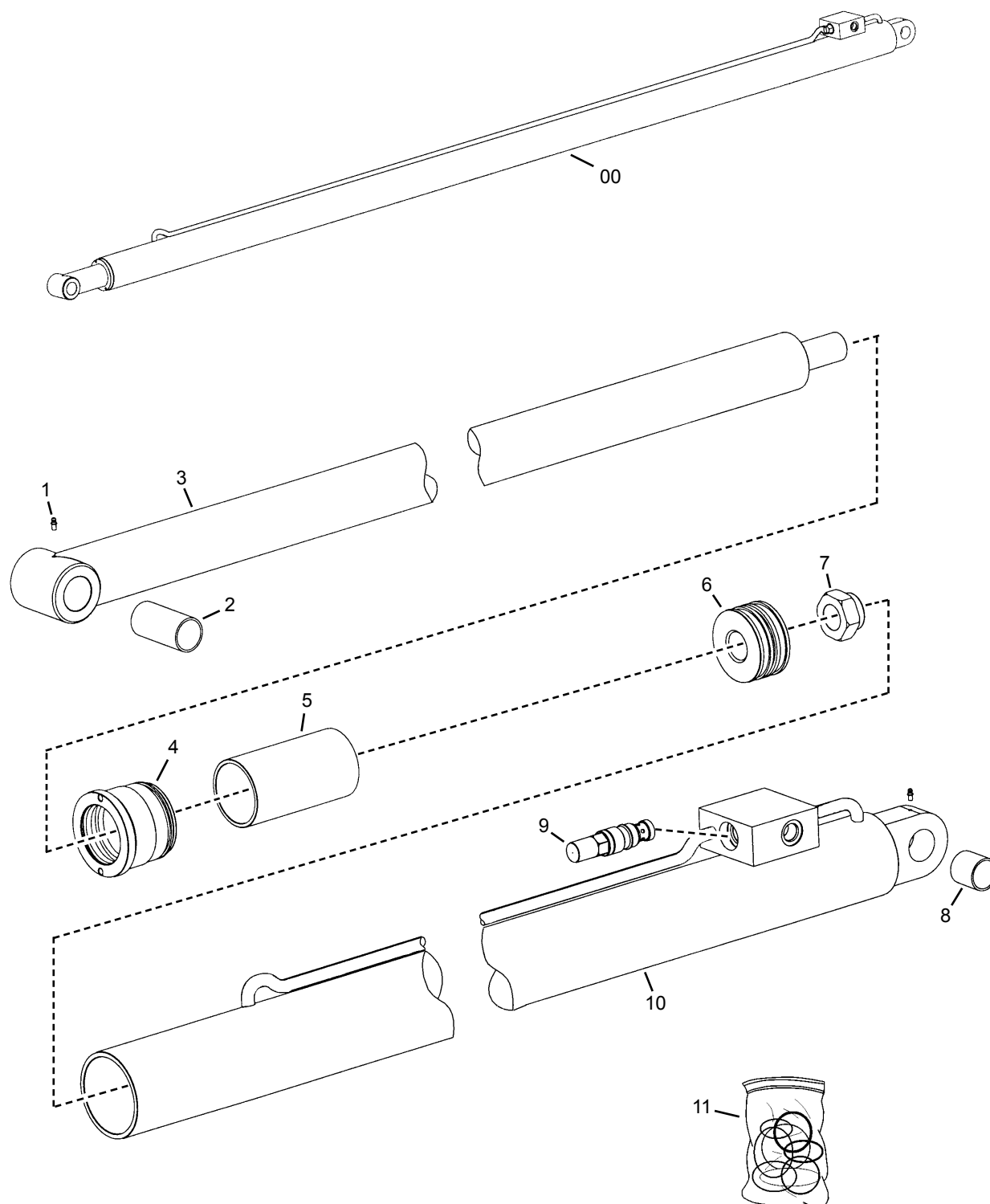


Hydraulic Cylinders

RS Series

Boom Extend - 4-Section Boom

(Cylinder is stamped with P/N L71024)





Telescopic Handler

Hydraulic Cylinders

Boom Extend - 4-Section Boom

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	L71024	BOOM EXTEND CYLINDER.....	1	08	L67120	BUSHING (<i>base end</i>)	1
01	L10465	1/4"-28 GREASE ZERK.....	2	09	L70274	COUNTER BALANCE VALVE.....	1
02	L67119	BUSHING (<i>rod end</i>).....	1		L99943	CBAL VALVE SEAL KIT.....	1
03	L500753	ROD WELDMENT (<i>incls. item 2</i>) .	1	10	NSS	CYLINDER TUBE WELDMENT ...	1
04	L500758	HEAD GLAND.....	1	11 ^a	L500262	CYLINDER SEAL KIT	1
05	L500755	ROD SPACER.....	1				
06	L500757	PISTON.....	1				
07	L99122	1-3/4"-12 UNF LOCKNUT	1				

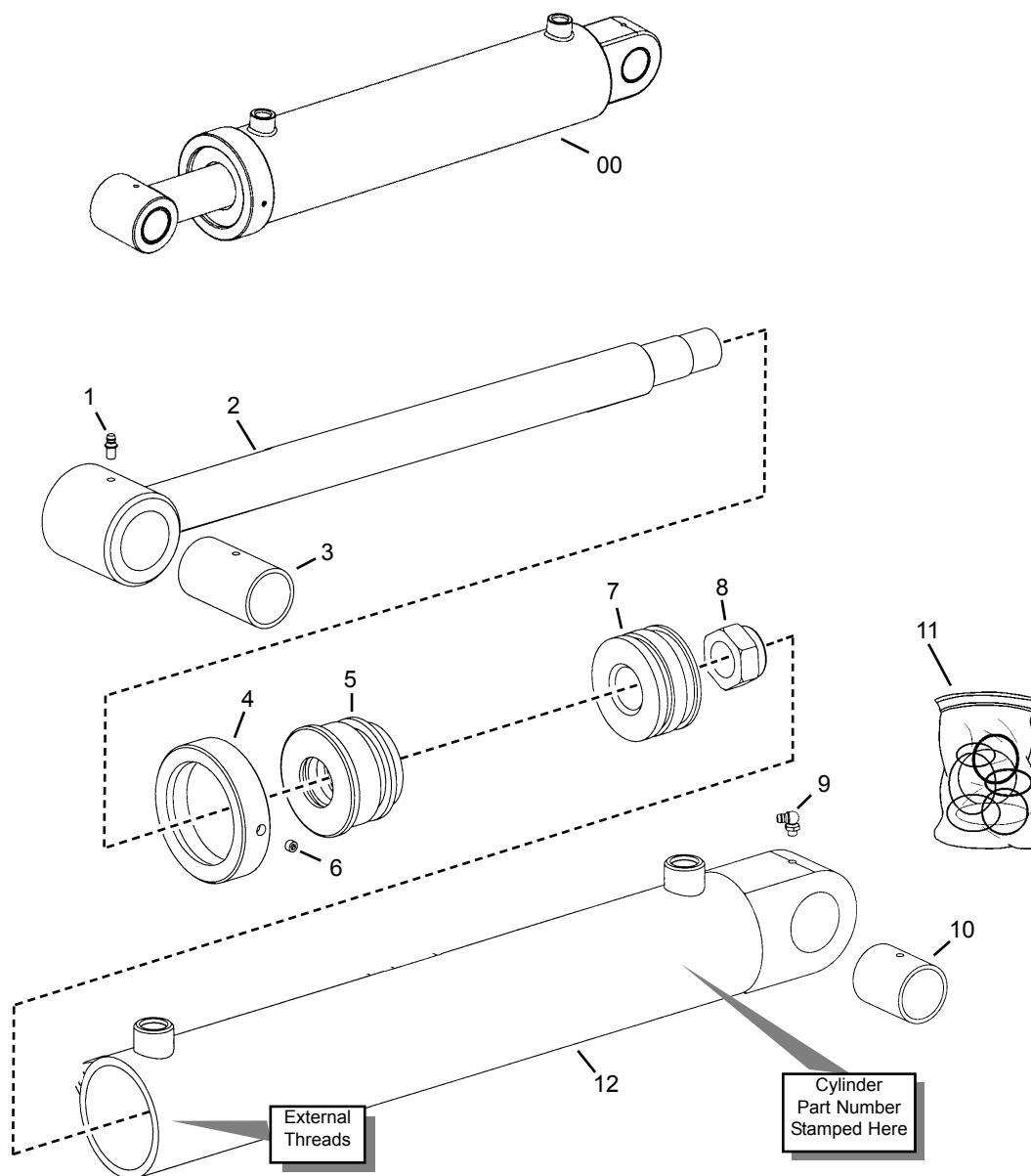
a Items included in the seal kit are not shown.



Hydraulic Cylinders

Slave — (Compensation)

RS Series



Ref. No.	Part No.	Description	Qty. Req.
00	L69149	SLAVE CYLINDER	1
01	L10465	1/4"-28 GREASE ZERK STR	1
02	L99865	ROD WELDMENT	1
		(includes item #2)	
03	L63018	BUSHING (ROD END)	1
04	L98547	HEAD GLAND CAP	1
05	L99866	HEAD GLAND	1
06	L99857	5/16"-18X1/4" SET SCREW	1
07	L99864	PISTON	1
08	137221	1-3/8"-12 UNF LOCKNUT	1

Ref. No.	Part No.	Description	Qty. Req.
09	L10057	1/4"-28 GREASE ZERK 90°	1
10	L68003	BUSHING (BASE END)	1
11 ^a	L99868	CYLINDER SEAL KIT	1
12	NSS	CYLINDER TUBE WELDMENT ...	1

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



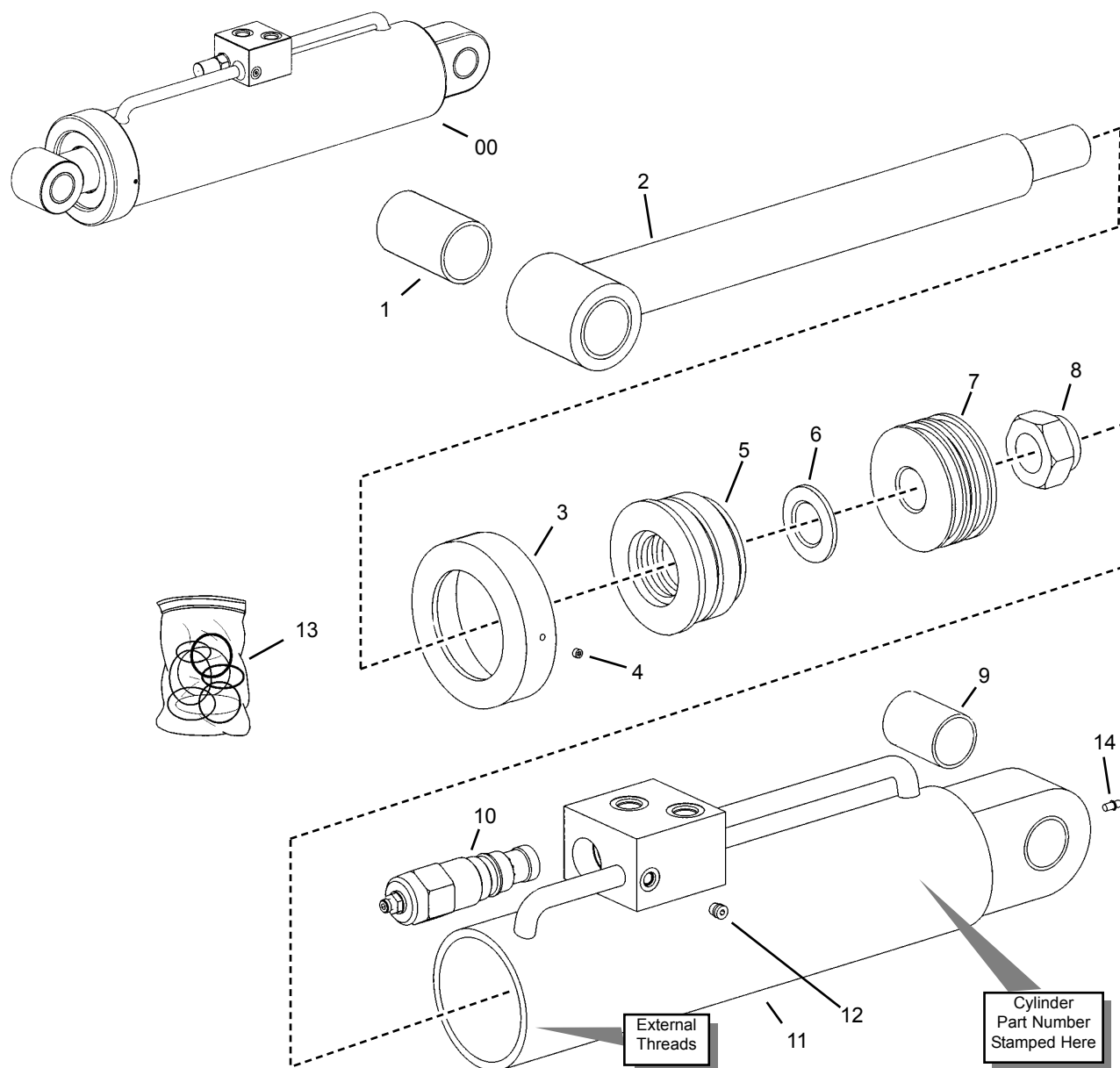
IMPORTANT: Before ordering any replacement parts, verify the part number stamped on the cylinder.



Telescopic Handler

Hydraulic Cylinders

Tilt



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	L69144	TILT CYLINDER	1	10	L70502	COUNTER BALANCE VALVE	1
01	L99889	BUSHING	1		L96838	CB VALVE SEAL KIT	1
02	L99886	ROD WELDMENT	1	11	NSS	CYLINDER TUBE WELDMENT	1
		(includes item #1)		12	L99917	PLUG -4.	1
03	L99856	HEAD GLAND CAP	1	13 ^a	L99883	CYLINDER SEAL KIT	1
04	137220	5/16"-18X5/16" SET SCREW	1	14	L10465	1/4"-28 GREASE ZERK STR	1
05	L99888	HEAD GLAND	1				
06	L99852	THRUST WASHER	1				
07	L99885	PISTON	1				
08	L99122	1-3/4" UNF LOCKNUT	1				
09	L69127	BUSHING (BASE END)	1				

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

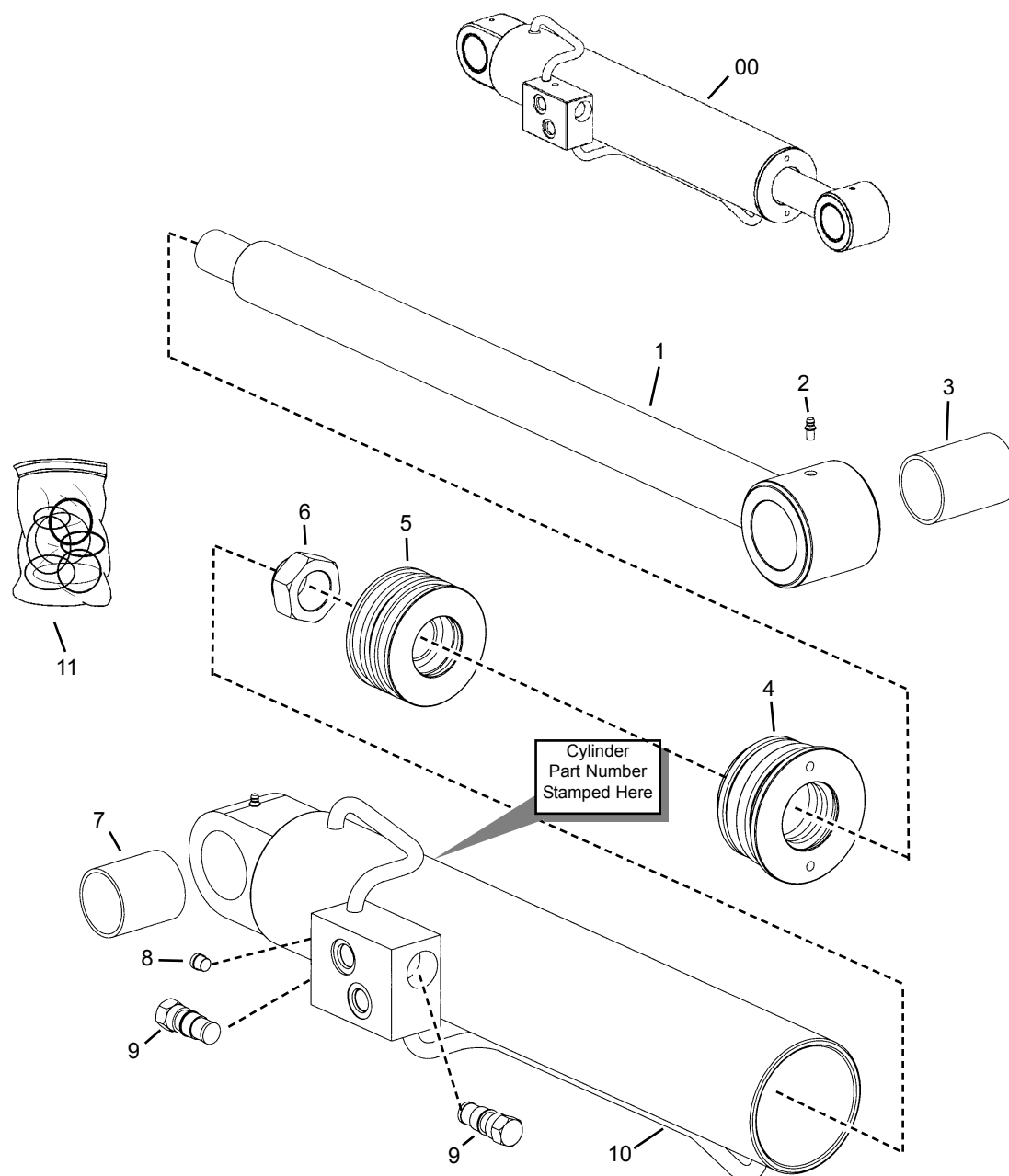
IMPORTANT: Before ordering any replacement parts, verify the part number stamped on the cylinder.



Hydraulic Cylinders

Outrigger

RS Series



Ref. No.	Part No.	Description	Qty. Req.
00	L70616	OUTRIGGER CYLINDER	1
01	L99989	ROD WELDMENT (includes item 3)	1
02	L10465	1/4"-28 GREASE ZERK	2
03	L70618	BUSHING (ROD END)	1
04	L99991	HEAD GLAND	1
05	L99864	PISTON	1
06	137221	1-3/8"-12 UNF LOCKNUT	1
07	L69138	BUSHING (BASE END).	1

Ref. No.	Part No.	Description	Qty. Req.
08	L99917	PLUG, -40RM	1
09	L99987	PO CHECK VALVE	2
10	NSS	CYLINDER TUBE WELDMENT . . . 1	
11 ^a	L99988	CYLINDER SEAL KIT	1

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



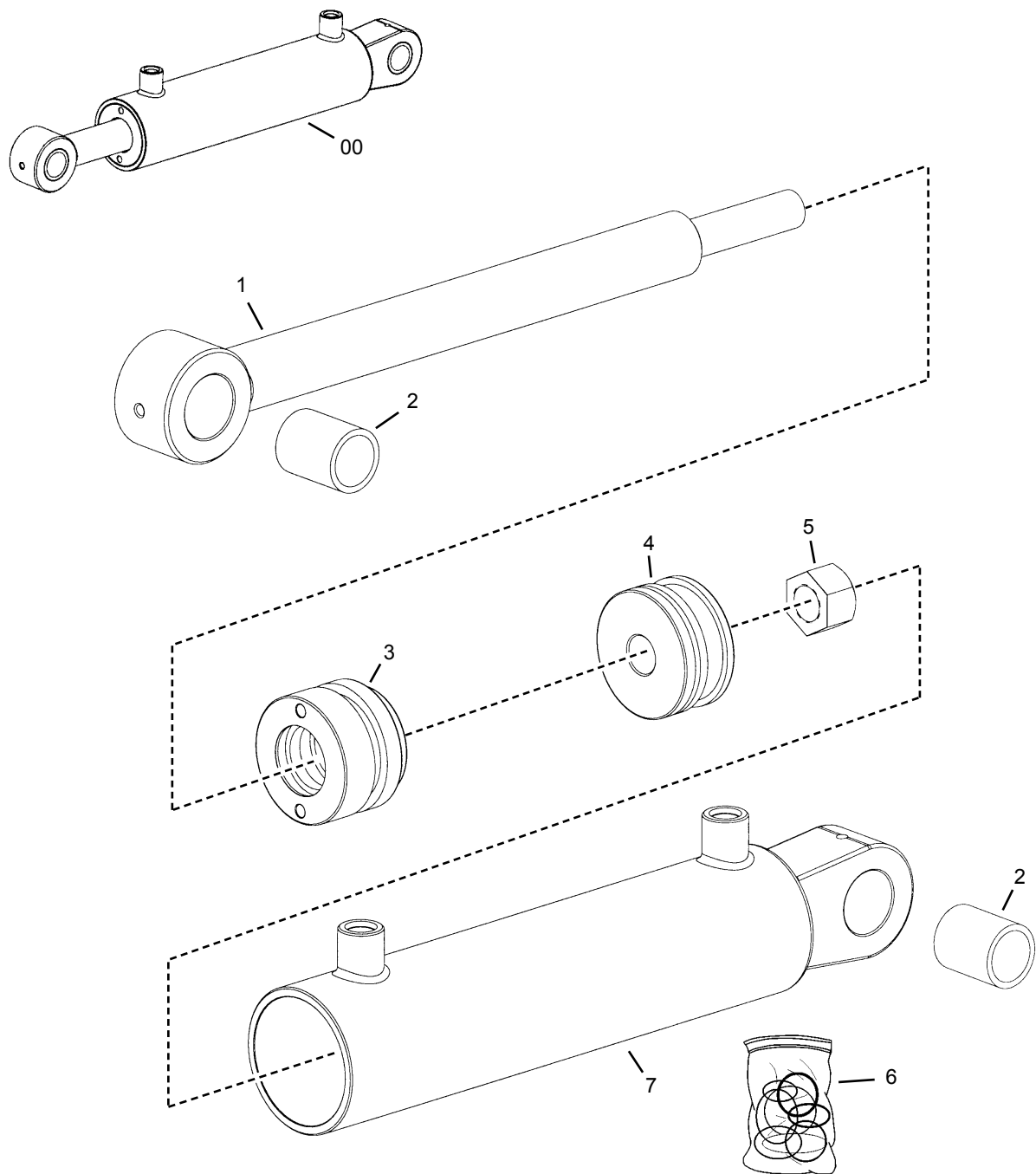
IMPORTANT: Before ordering any replacement parts, verify the part number stamped on the cylinder.



Telescopic Handler

Hydraulic Cylinders

Grapple Cylinder



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	L67248	GRAPPLE CYL. (complete).....	1	04	121552	PISTON	1
01	L98923	ROD WELDMENT	1	05	080319	3/4"-16 UNF LOCKNUT	1
02	L63593	BUSHING 1" x 1.25" x 1.5"	2	06	L98922	SEAL KIT (not all items shown)...	1
03	L98919	HEAD GLAND	1	07	NSS	CYLINDER TUBE WELDMENT ...	1

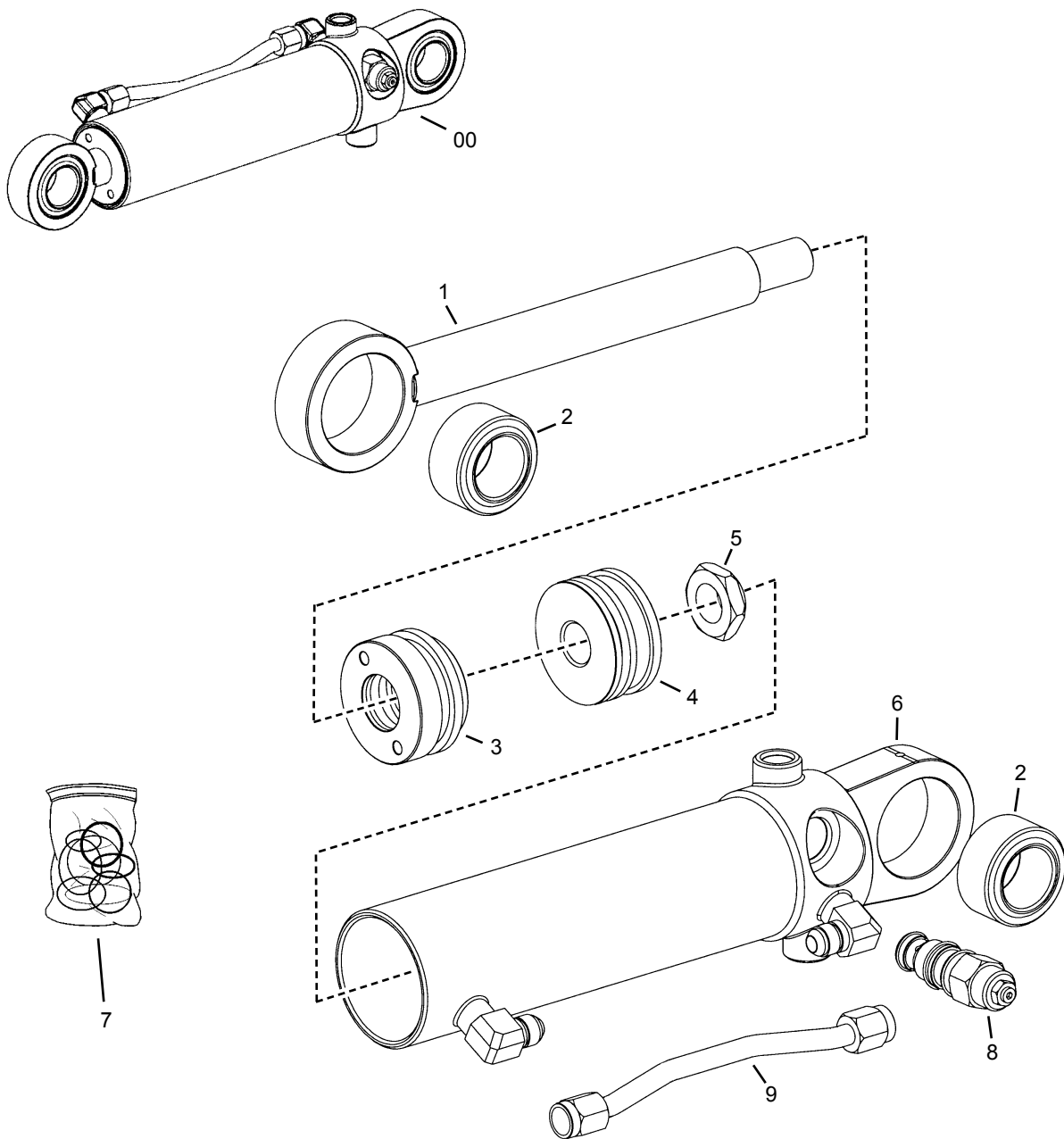
IMPORTANT: Before ordering any replacement parts, verify the part number stamped on the cylinder.



Hydraulic Cylinders

Rotating-Carriage

RS Series



Ref. No.	Part No.	Description	Qty. Req.
00	L70655	ROTATING-CARRIAGE CYL.	1
01	L500242	ROD WELDMENT	1
02	L64122	SPHERICAL BEARING	2
03	L99074	HEAD GLAND	1
04	L97839	PISTON	1
05	080313	1"-14 UNS THIN COL. LOCKNUT .	1
06	NSS	TUBE WELDMENT	1
07 ^a	L97769	SEAL KIT	1

Ref. No.	Part No.	Description	Qty. Req.
08	L48868A	CB VALVE (3000 psi)	2
	L96838	CB VALVE SEAL KIT	1
09	L500241	HYDRAULIC LINE ASSEMBLY.	1

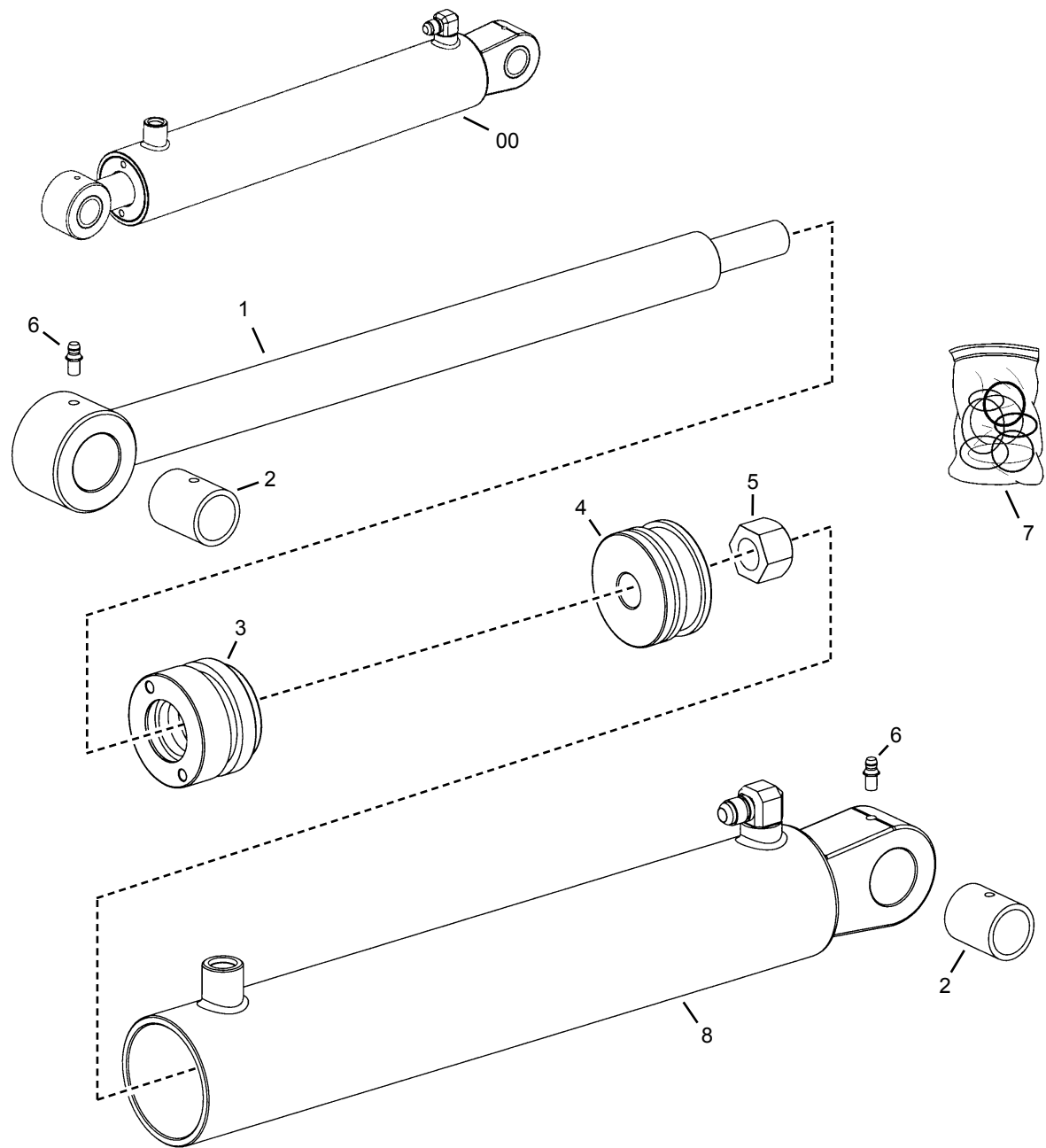
^a Items included in the seal kit are not shown.

IMPORTANT: Before ordering any replacement parts, verify the part number stamped on the cylinder.



Telescopic Handler

Hydraulic Cylinders Swing-Carriage



Ref. No.	Part No.	Description	Qty. Req.
00	L63970	SWING-CARRIAGE CYLINDER...	1
01	L500364	ROD WELDMENT.....	1
02	L63593	BUSHING	2
03	L500365	HEAD GLAND.....	1
04	L98662	PISTON	1
05	080319	3/4"-16 LOCKNUT.....	1
06	L10465	1/4"-28 GREASE ZERK.....	2

Ref. No.	Part No.	Description	Qty. Req.
07 ^a	L99944	SEAL KIT.....	1
08	NSS	TUBE WELDMENT.....	1

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



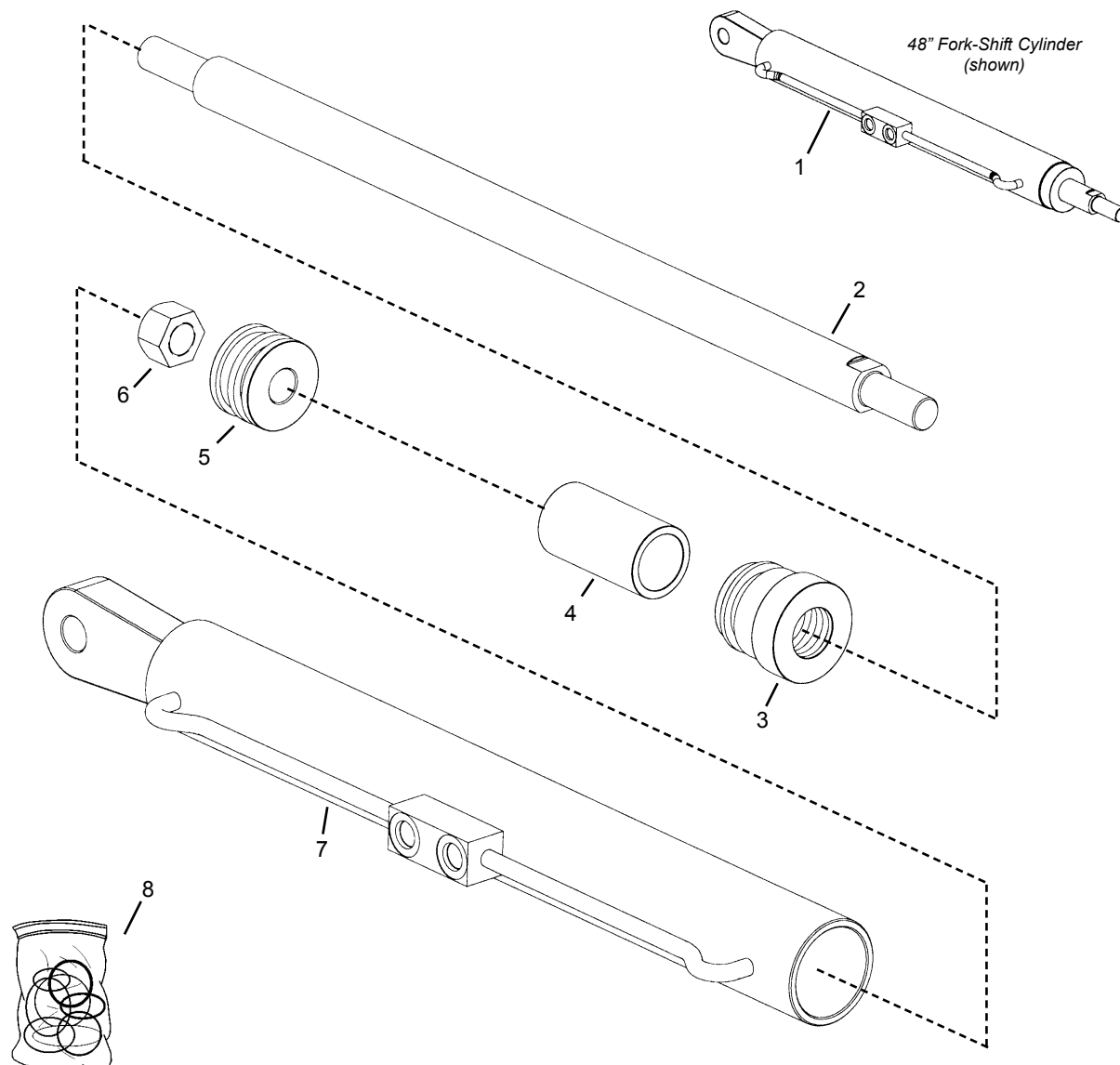
IMPORTANT: Before ordering any replacement parts, verify the part number stamped on the cylinder.



Hydraulic Cylinders

48" and 72" Fork-Shift

RS Series



Ref. No.	Part No.	Description	Qty. Req.
01		FORK-SHIFT CYLINDER 1	
	210932	48" Fork-Shift Carriage	
	210901	72" Fork-Shift Carriage	
02		CYLINDER ROD 1	
	106959	Note a	
	106961	Note b	
03		HEAD GLAND 1	
	L500762	Note a	
	121565	Note b	
04 ^c	106960	ROD SPACER (72" cylinder only) . . 1	
05	L500761	PISTON 1	
06	080319	LN 0.75"-16 UNF 1	

Ref. No.	Part No.	Description	Qty. Req.
07	NSS	TUBE WELDMENT 1	
08		SEAL KIT 1	
	L500370	Note a	
	106962	Note b	

- a Used with 48" fork-shift carriage cylinder (210932)
b Used with 72" fork-shift carriage cylinder (210901)
c Rod spacer is only used with the 72" fork-shift cylinder (210901).



NOTE: Items in seal kits are not shown.

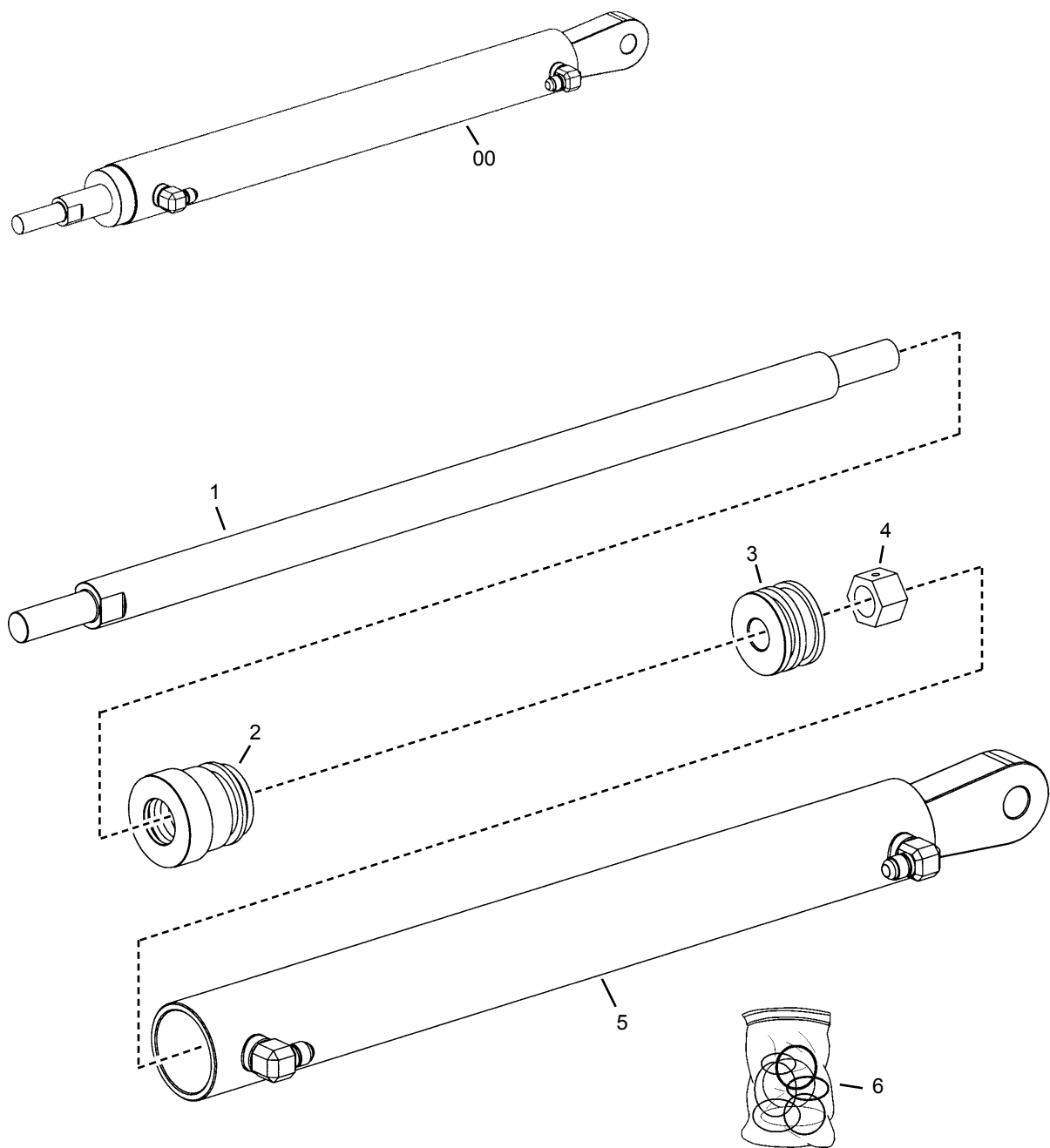


IMPORTANT: Before ordering any replacement parts, verify the part number stamped on the cylinder.



Telescopic Handler

Hydraulic Cylinders 50" Fork-Shift



Ref. No.	Part No.	Description	Qty. Req.
00	L68337	FORK-SHIFT CYLINDER	1
01	L500763	ROD WELDMENT	1
02	L500762	HEAD GLAND	1
03	L500761	PISTON	1
04	080319	3/4"-16 UNF LOCKNUT	1

Ref. No.	Part No.	Description	Qty. Req.
05	NSS	TUBE WELDMENT	1
06 ^a	L500370	SEAL KIT	1

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

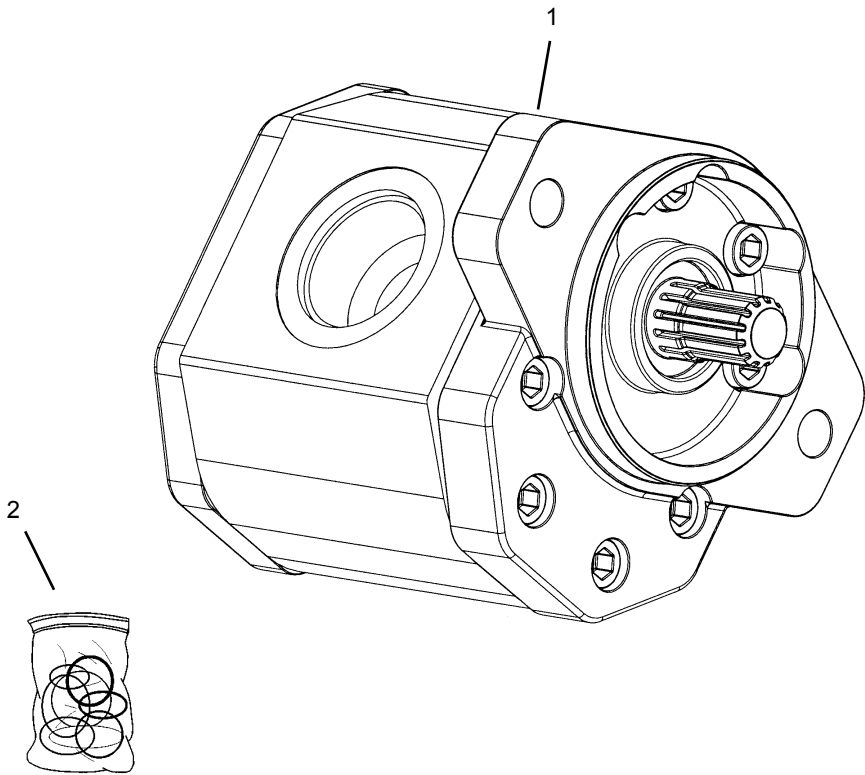


IMPORTANT: Before ordering any replacement parts, verify the part number stamped on the cylinder.



Hydraulic Components
Hydraulic Pump

RS Series



Ref. No.	Part No.	Description	Qty. Req.
01	102498	HYDRAULIC PUMP	1
	L46865	GASKET, PUMP	1
		(between pump and transmission)	

Ref. No.	Part No.	Description	Qty. Req.
02 ^a	103018	SEAL KIT	1
a		Individual seals are not shown.	

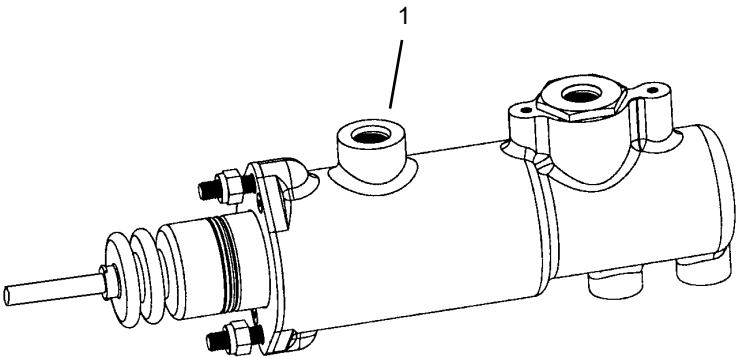


NOTE: Field service is limited to the replacement of seals only.



Telescopic Handler

Hydraulic Components
Brake Cylinder with Booster

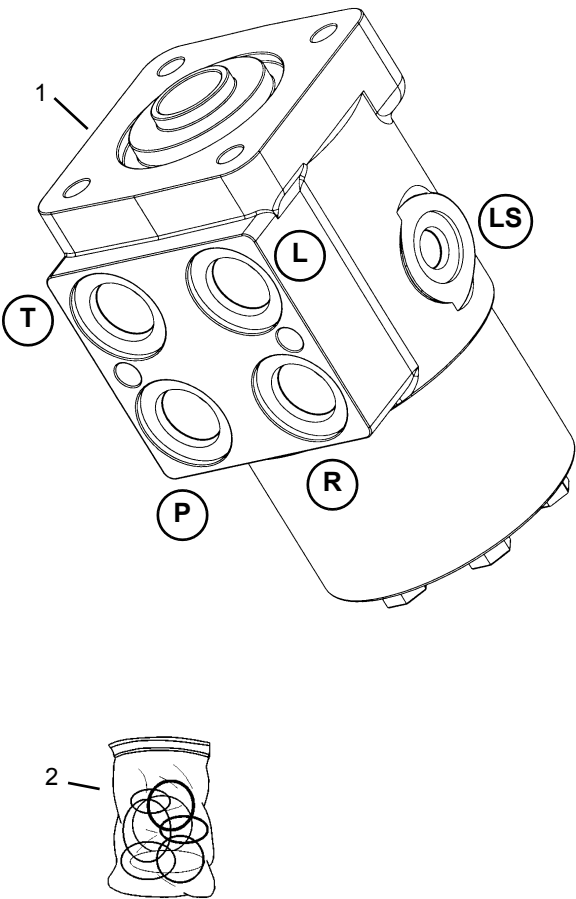


Ref. No.	Part No.	Description	Qty. Req.
01	210253	BRAKE CYLINDER, BOOSTER . . .	1



Hydraulic Components
Steer Motor

RS Series



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	101880	STEERING CONTROL UNIT	1	02	L500968	SEAL KIT <i>(Items included are not shown.)</i>	1



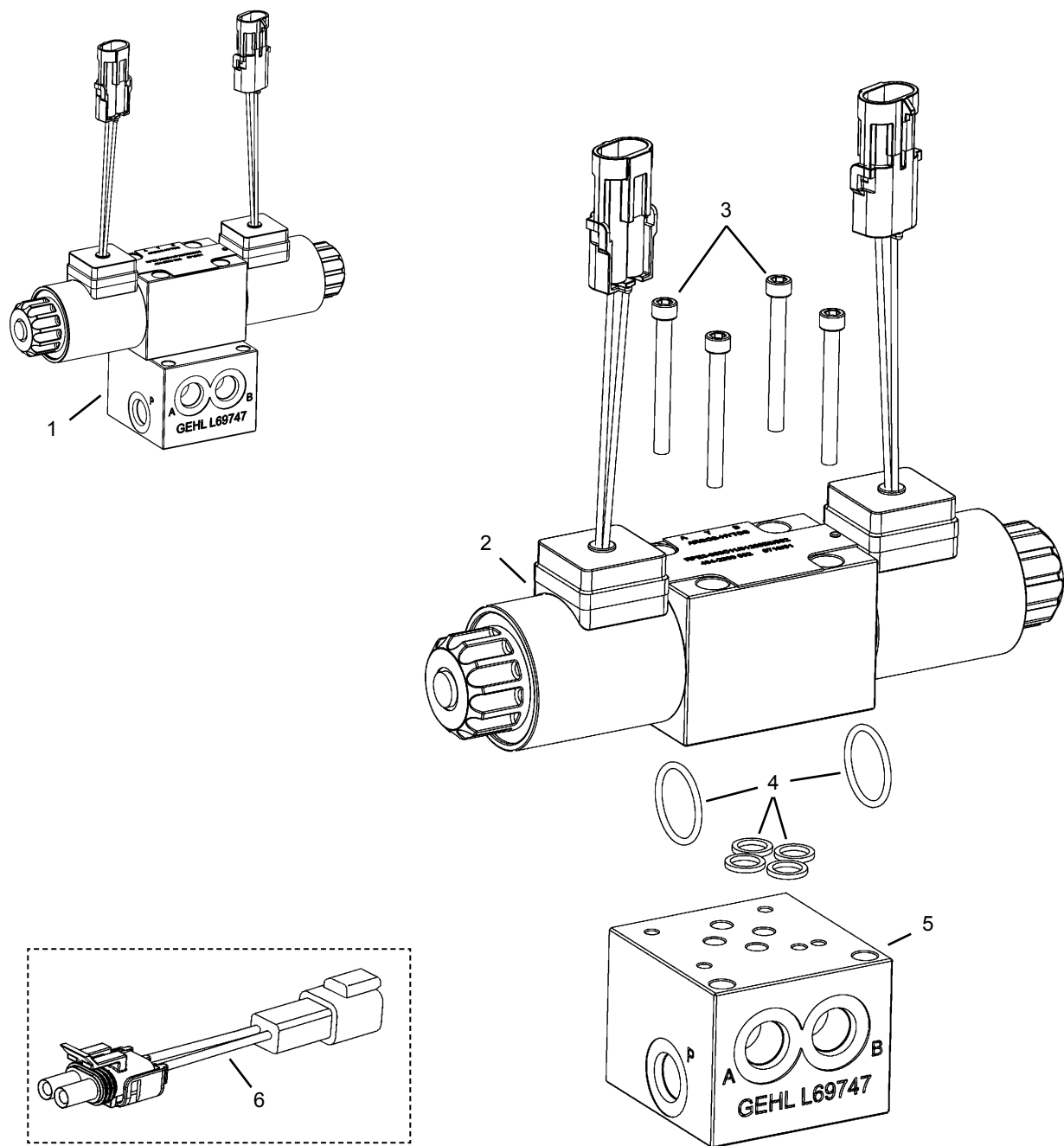
NOTE: *Field service is limited to the replacement of seals only.*



Telescopic Handler

Hydraulic Components

Steer Select Valve



Item No.	Part No.	Description	Qty. Req.
01	L69747	STEER SELECT VALVE..... 1 (Includes items 1-5)	
02	210018	WEATHER PAK VALVE..... 1	
03	NSS	SHCS #10-24 x 1-3/4"..... 4 (included with item #1)	
04	107000	SEAL KIT 1 (consists of the o-rings shown)	

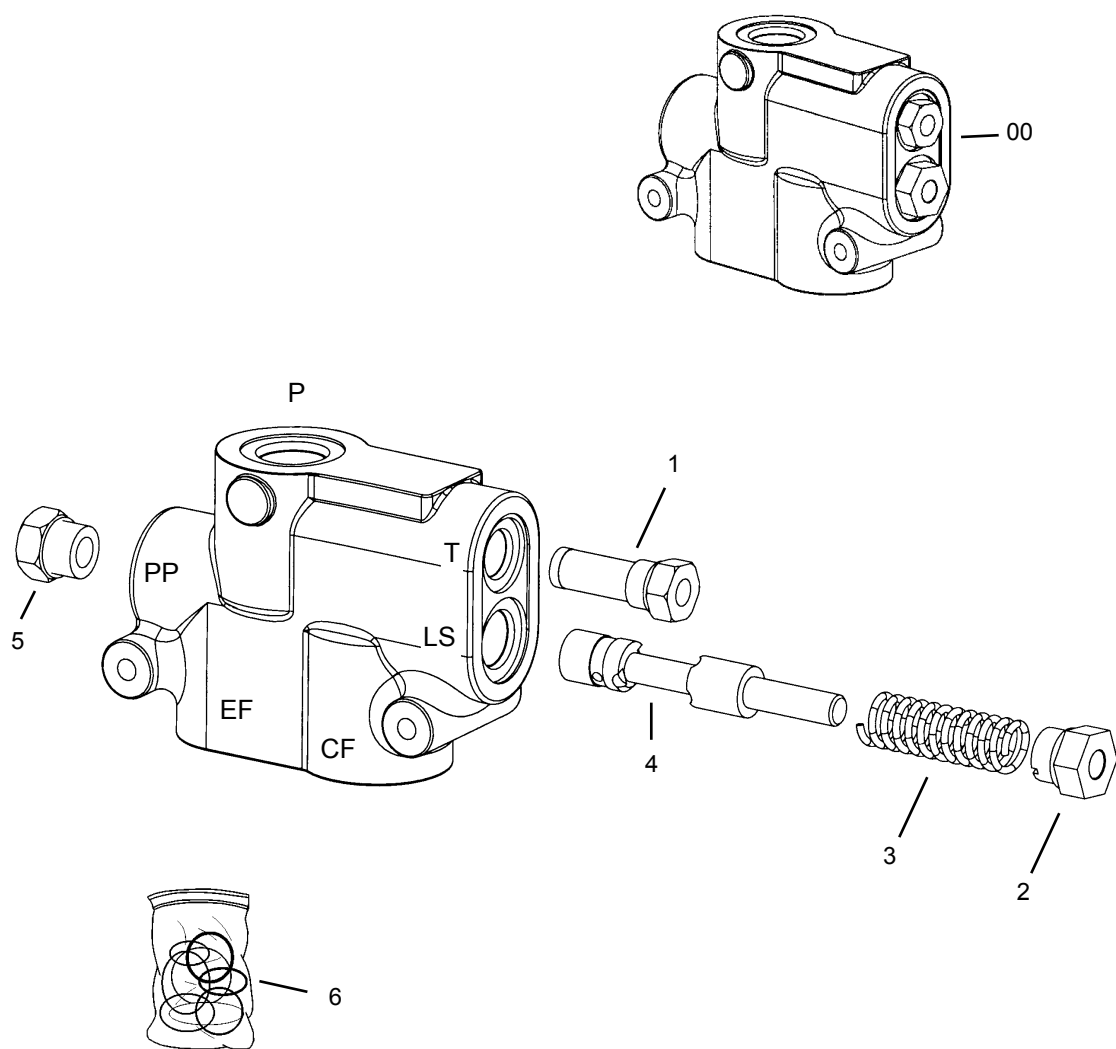
Item No.	Part No.	Description	Qty. Req.
05	NSS	MANIFOLD 1	
06	50380338	WIRE HARNESS, JUMPER 2	
-- ITEMS NOT SHOWN --			
00	L68711	WIRE HARNESS 2 (Connects wire leads to frame wiring.)	



Hydraulic Components

Priority Valve

RS Series

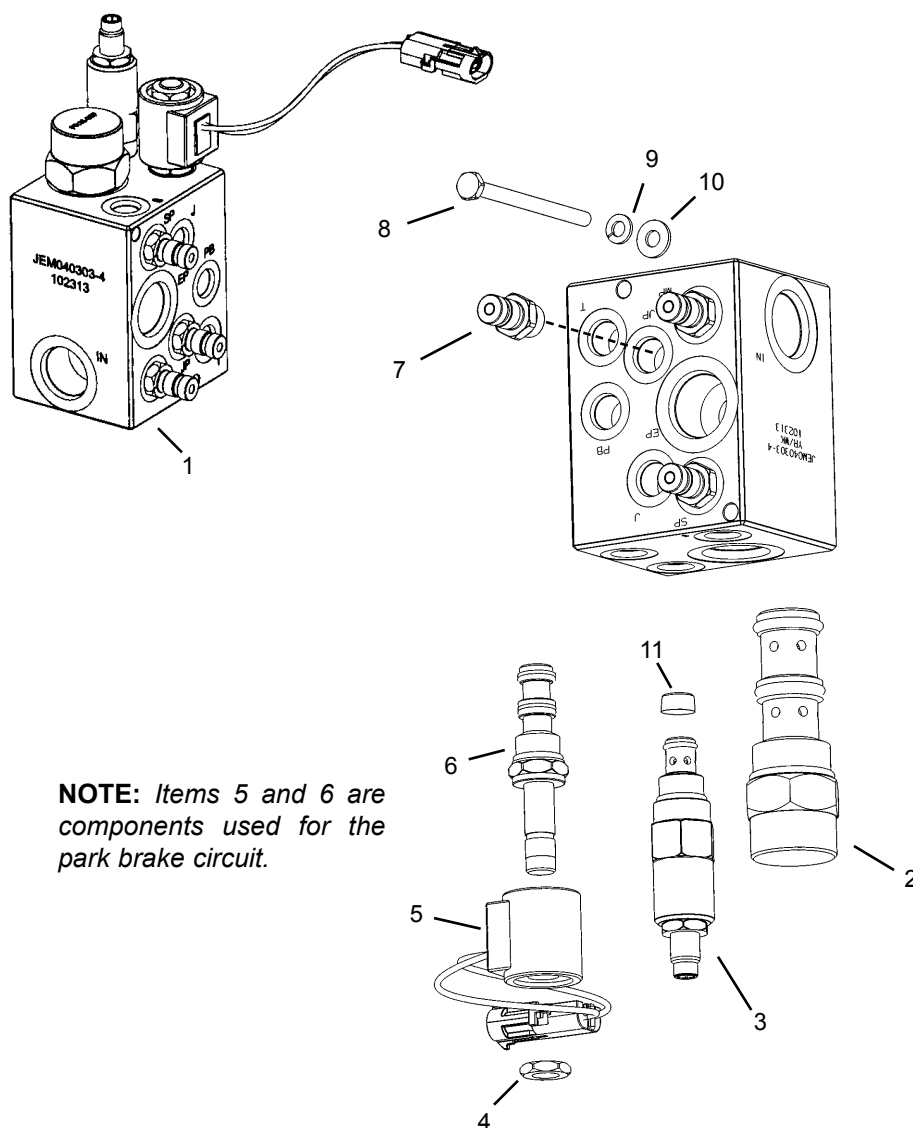


Ref. No.	Part No.	Description	Qty. Req.
00	104132	PRIORITY VALVE 1 (includes all items shown)	
01	104133	RELIEF CARTRIDGE ASY. 1	
02	NSS	PLUG ASY 1	
03	NSS	SPRING 1	

Ref. No.	Part No.	Description	Qty. Req.
04	NSS	SPOOL 1	
05	NSS	PLUG 1	
06 ^a	L97655	SEAL KIT 1	
^a Items in seal kit are not shown.			



Telescopic Handler

Hydraulic Components
Flow Divider Valve

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102313	FLOW DIVIDER VALVE	1	07	P471997	TEST PORT	3
		(includes items 1-7)			L62840	CAP, DUST COVER (not shown) . .	3
02	103017	PILOTED SPOOL LOGIC ELEM. . .	1		L62933	FEMALE COUPLER (optional)	
03	L99927	RELIEF VALVE	1	08	L50217	1/4"-20X3-1/2" BOLT	2
	L99925	SEAL KIT	1	09	L50139	1/4" LOCK WASHER	2
04	NSS	NUT, SOLENOID VALVE	1	10	L50137	1/4" FLAT WASHER	2
		(included with item 5)		11	105087	SCREEN	1
05	L99908	12 VDC WEATHER PACK COIL . .	1				
		(includes item 4)					
06	L99910	SOLENOID VALVE	1				
	L99911	SEAL KIT	1				



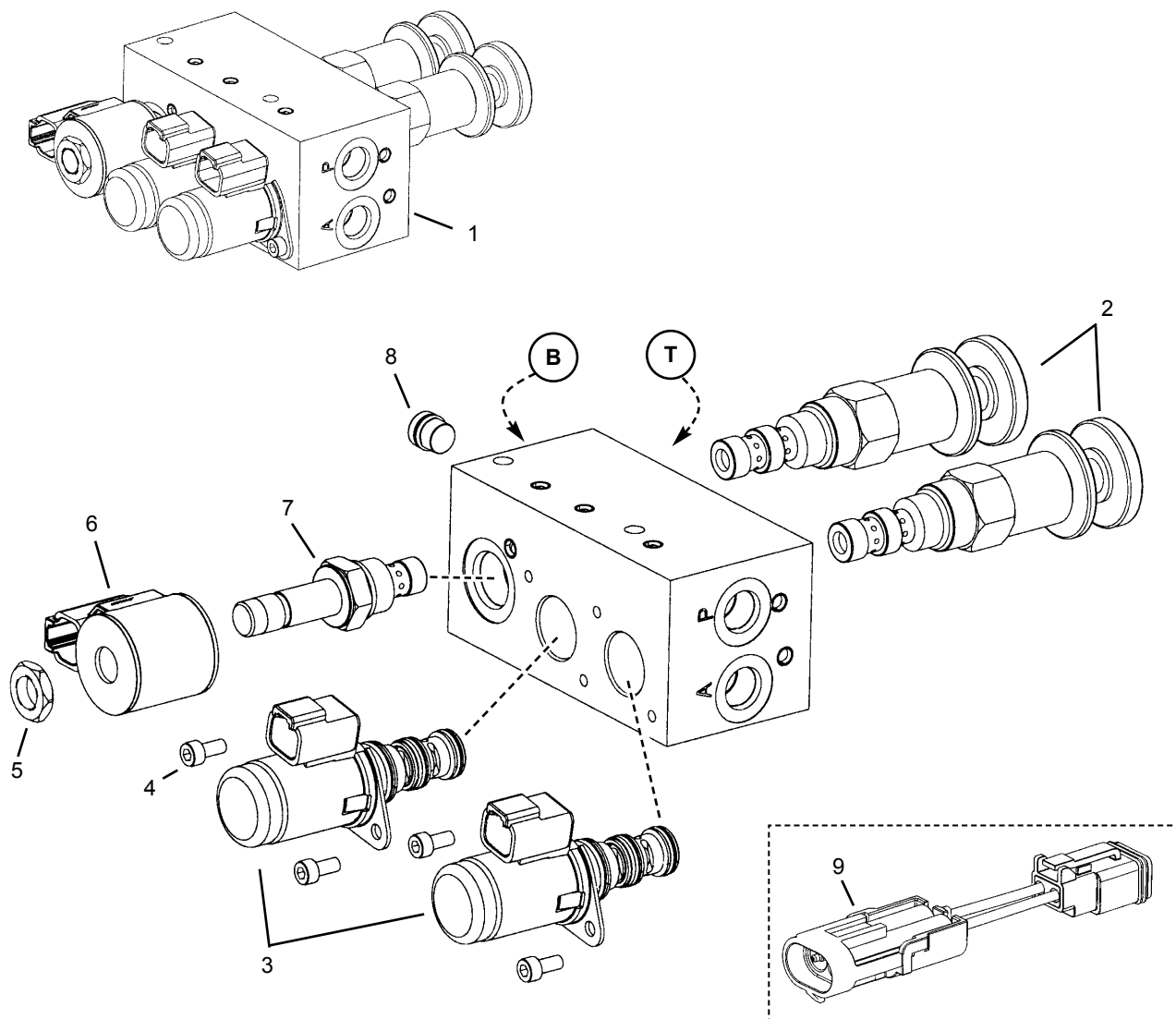
NOTE: Individual items included in the seal kits are not shown.



Hydraulic Components

RS Series

Pilot Apply Valve - Tri-Function Controller



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	106898	PILOT APPLY MANIFOLD..... ^a (includes all items except item 9)		07	L500746	VALVE, 2-WAY	1
02	L500745	PRESSURE CONTROL	2		L99924	SEAL KIT, 2-WAY VALVE	1
	L99911	SEAL KIT	2	08	L99917	PLUG -4 NWD STYLE	1
03	244655	CARTRIDGE, 3-WAY/2-POSITION .	2	09	211161	WIRE HARNESS, TILT CONTROL .	1
	240202	SEAL KIT (for one cartridge) . . .	AR				
04	240197	SCHS M5-0.08X10MM	4				
05	NSS	COIL NUT (included with item 7) . .	1				
06	104736	COIL, 12VDC.....	1				

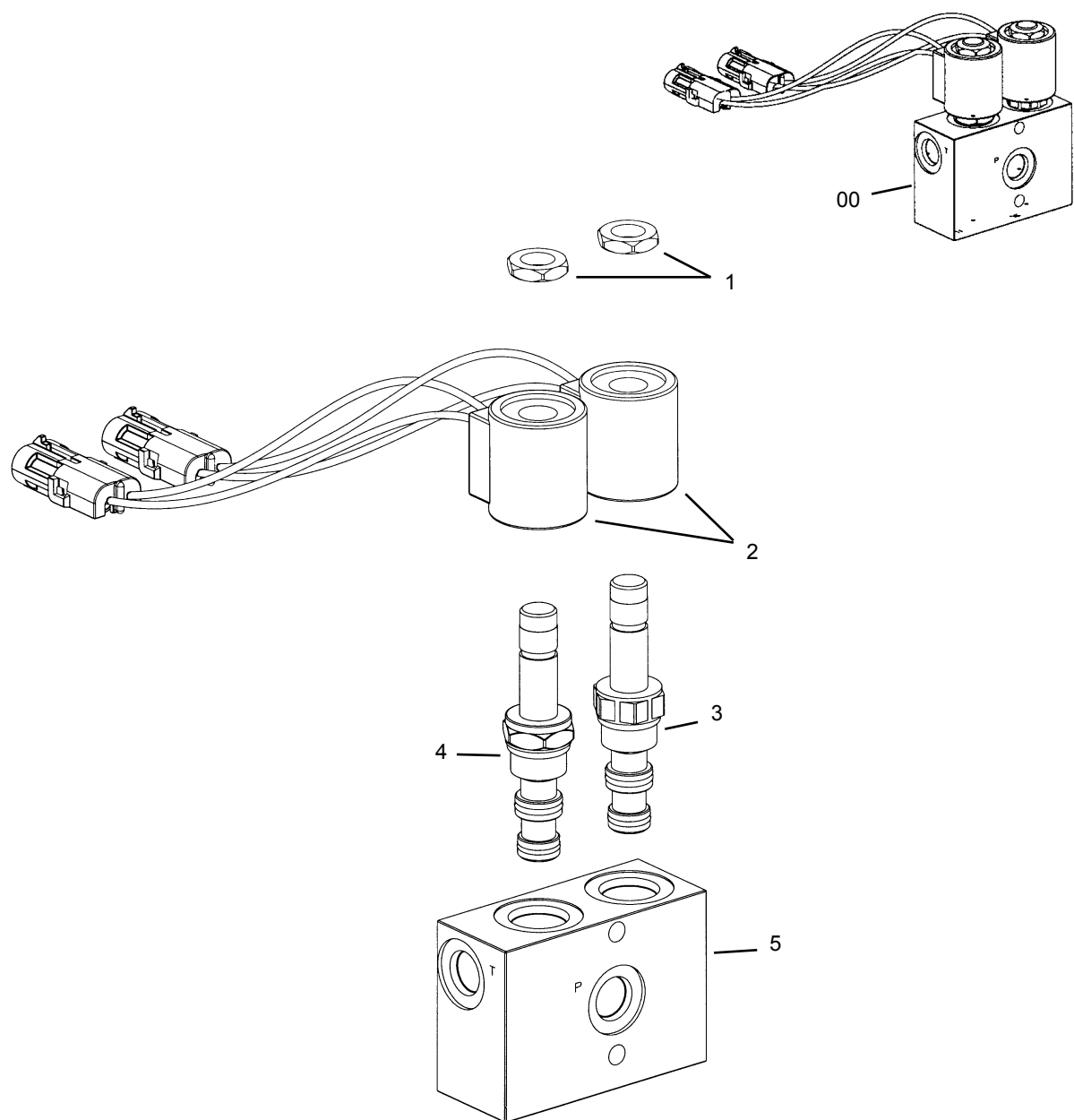
^a Units equipped with Auxiliary Hydraulics use
(2) 106898 Pilot Apply Manifolds.



Telescopic Handler

Hydraulic Components

PWP/WPS Valve



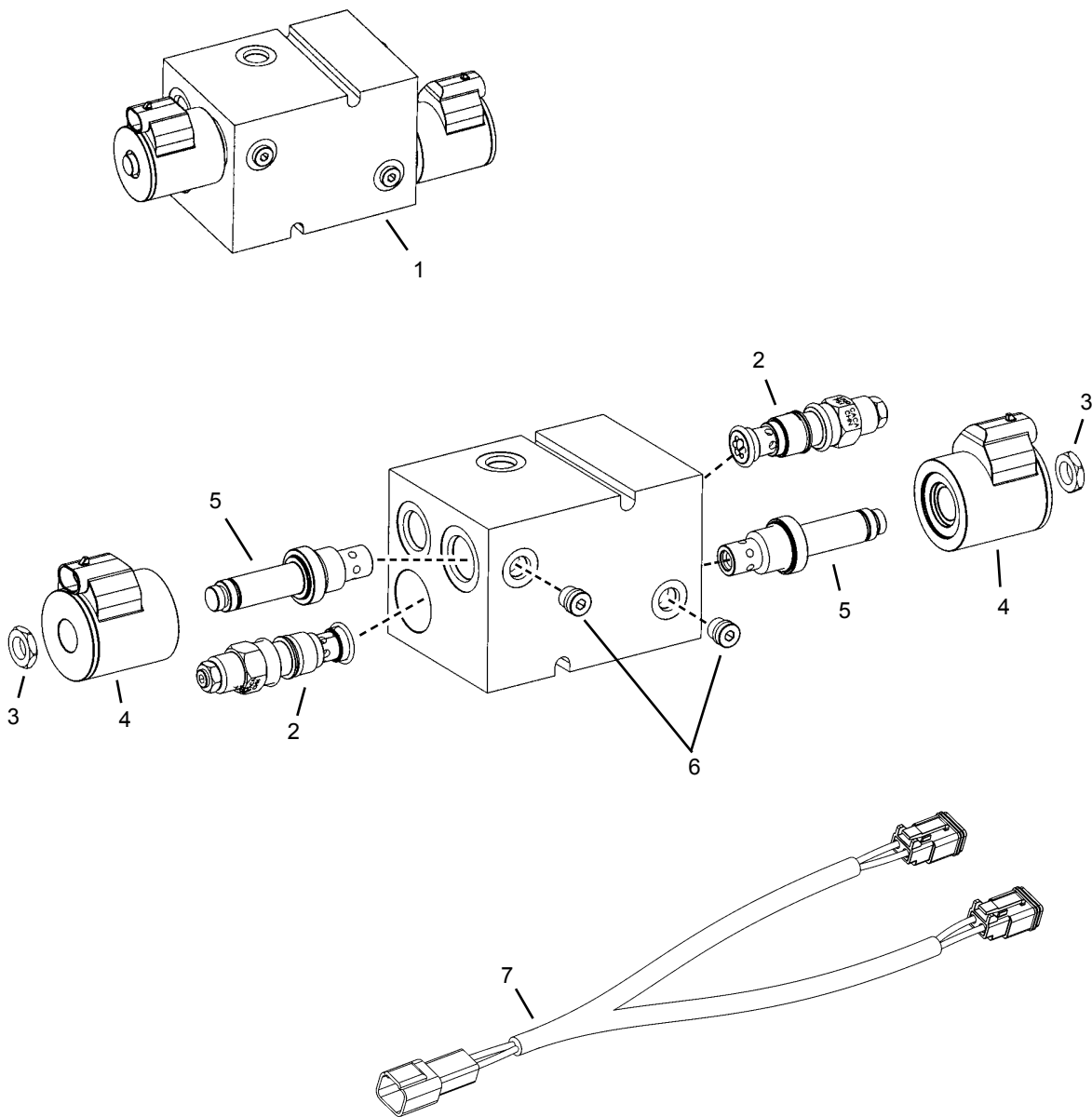
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	102321	PWP/WPS VALVE	1	04	L99910	SOLENOID VALVE	1
01	NSS	NUT, SOLENOID VALVE	2		L99911	SEAL KIT	1
		(included with item 3 and 4)				(Items included are not shown.)	
02	L99908	12 VDC WEATHER PACK COIL ...	2	05	NSS	MANIFOLD	1
03	L99909	SOLENOID VALVE	1				
	L99911	SEAL KIT	1				
		(Items included are not shown.)					



Hydraulic Components

Frame Stabilizing Valve

RS Series



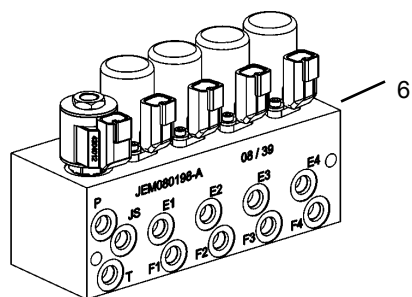
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102877	FRAME STABILIZING VALVE 1 (includes all items shown)		05	103152	CARTRIDGE (only) 2	
02	102878	COUNTER BAL. VALVE 3700PSI.. 2			L99916	SEAL KIT (included with cartridge) 2	
	104820	CBV SEAL KIT 2		06	L99917	PLUG -4ORM 2	
03	NSS	NUT (included with item 5) 2		07	50380318	WIRE HARNESS, STABILIZER . . . 1	
04	103151	E-COIL 12VDC 2					



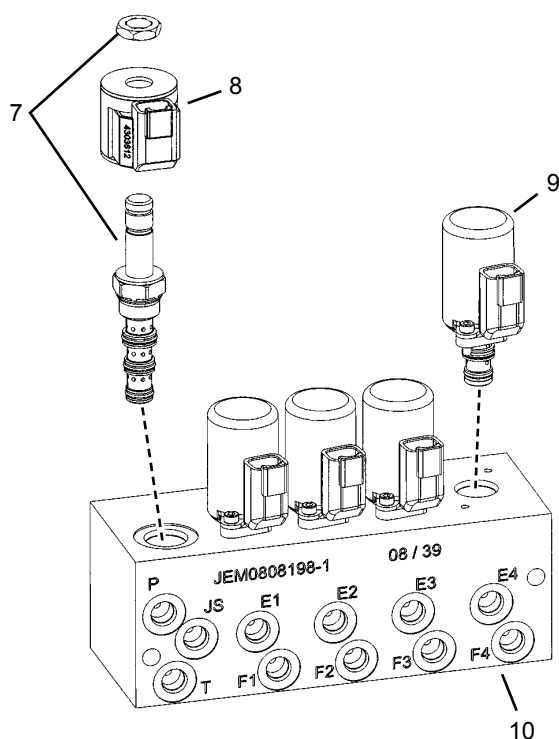
NOTE: Individual items included in the seal kits are not shown.



Telescopic Handler



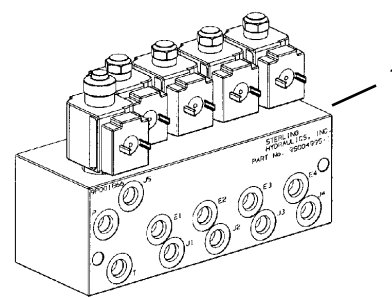
Late-Style



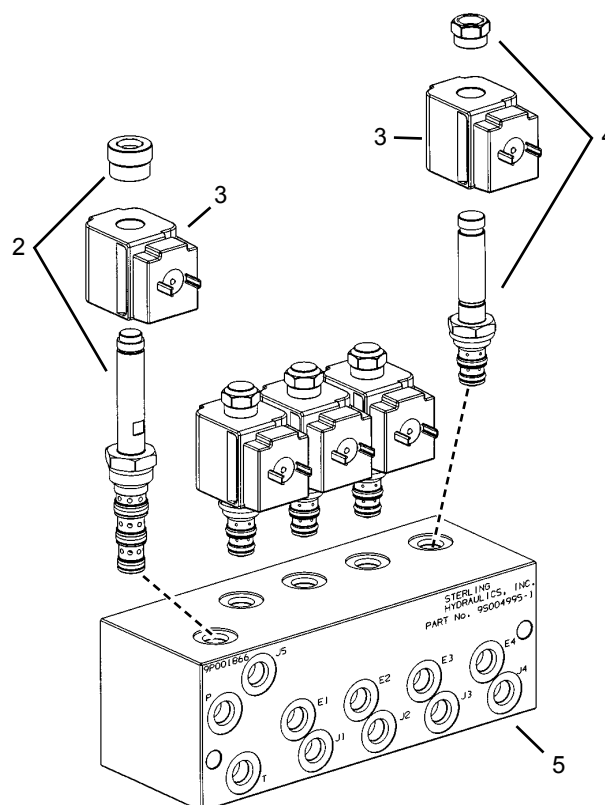
NOTE: Before ordering, verify the manifold on the machine matches with the one in the illustration.

Item No.	Part No.	Description	Qty. Req.
06	50380273	COMPLETE VALVE	1
		(includes all items shown and listed)	
07	50220634	2/4 WAY SOLENOID VALVE	1
	50220635	SEAL KIT FOR VALVE	1
08	104736	12 VDC COIL (WEATHERPAK).	1
09	50220631	PROPORTIONAL PRESS. VALVE	4
	50220632	SEAL KIT (one per valve)	4
	50220633	SCREWS, M4-0.7x12mm	8
		(not shown)	
10	NSS	MANIFOLD	1

Hydraulic Components Radio Remote Valve



Early-Style



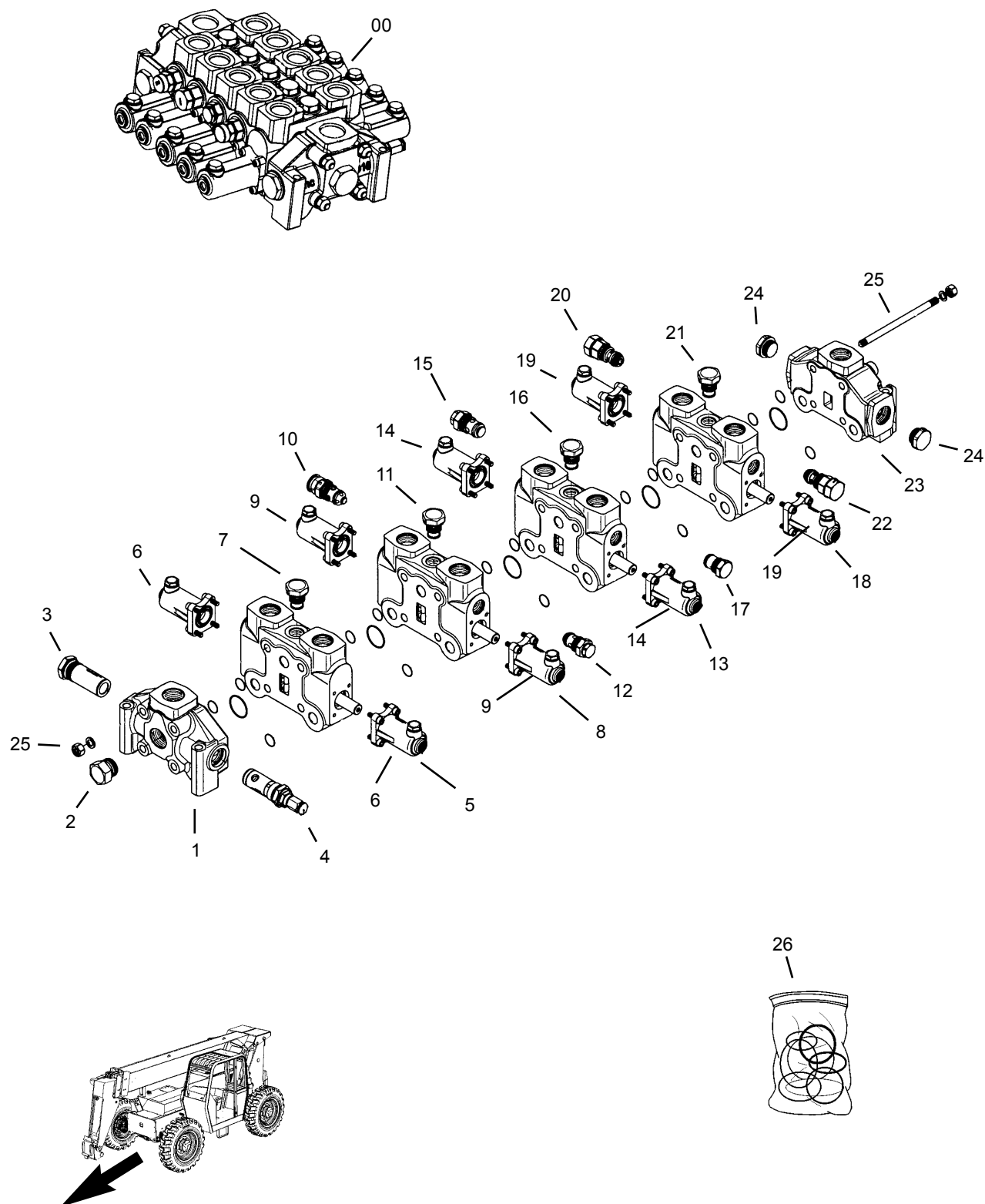
Item No.	Part No.	Description	Qty. Req.
01	103413	RADIO REMOTE MANIFOLD	1
		(includes all items shown and listed)	
02	103508	2/4 WAY SOLENOID VALVE	1
	103511	SEAL KIT FOR VALVE	1
03	103510	12 VDC COIL (DIN CONN.)	5
04	103509	PROPORTIONAL PRESS. VALVE	4
	103512	SEAL KIT FOR VALVE	AR
05	NSS	MANIFOLD	1
-- ITEMS NOT SHOWN --			
--	103514	SHUTTLE VALVE	4
--	103513	SEAL KIT FOR VALVE	AR



Hydraulic Components

Main Valve

RS Series





Telescopic Handler

Hydraulic Components

Main Valve

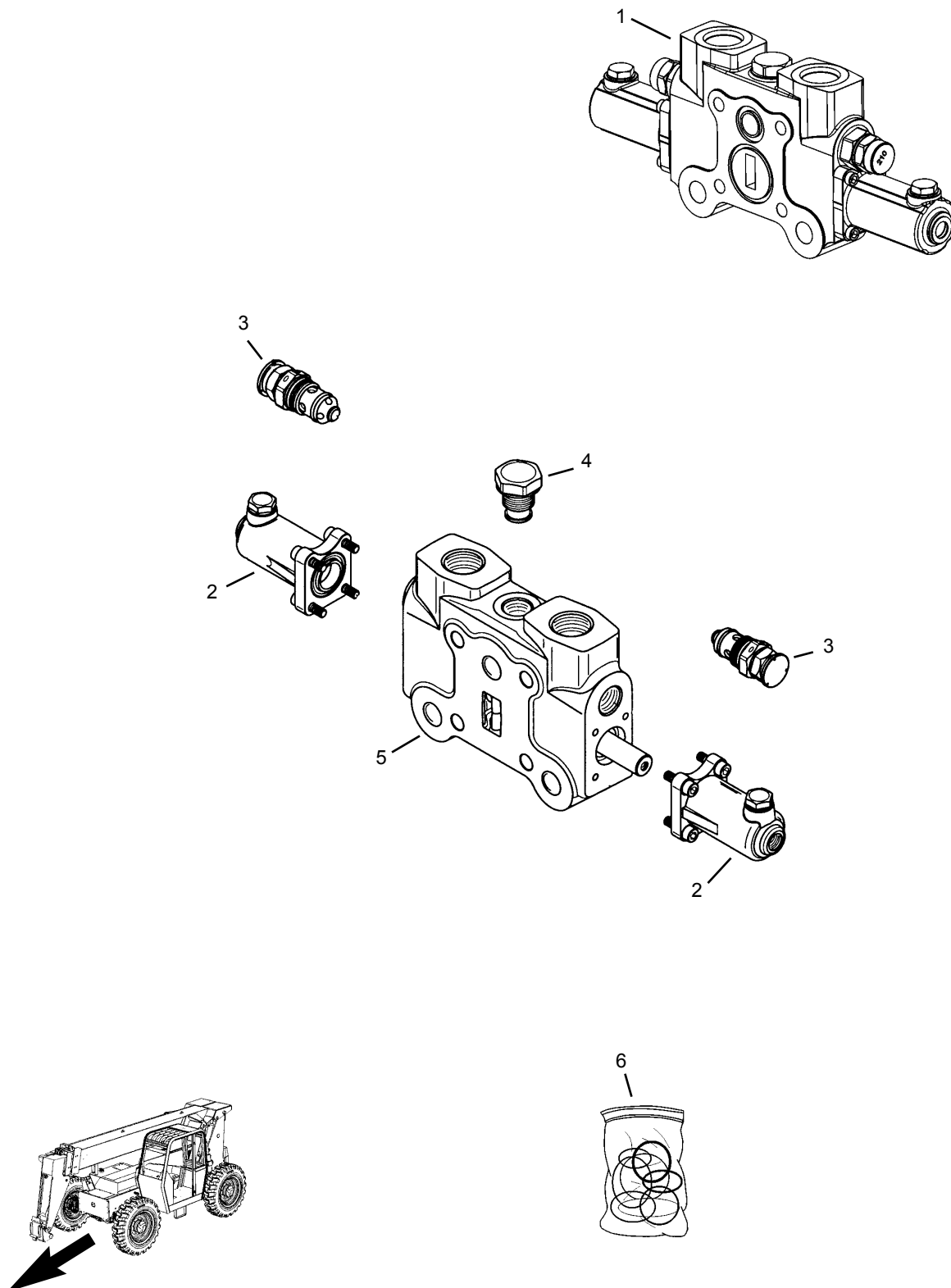
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00		MAIN HYDRAULIC VALVE	1	24 ^h	103068	PLUG	AR
	102356	<i>Note x - (4-section valve)</i>		25 ⁱ		TIE ROD KIT	4
	210320	<i>Note y - (5-section valve—shown)</i>				<i>(includes 1 bolt, 2 nuts & 2 washers)</i>	
01 ^a	103054	INLET SECTION	1		103059	FOUR-SECTION VALVE	
		<i>(includes items 1-4)</i>			102807	FIVE-SECTION VALVE	
02 ^h	103051	PLUG KIT 1-5/16" UNF	1	26 ^f	103062	SEAL KIT	1
03 ^h	103050	PLUG KIT	1				
04	103049	PILOT OPERATED RELIEF VLV . . .	1				
		<i>(with copper washer—seal)</i>		a		Use seal kit #103063 for all related seals.	
05 ^b	103055	WORK SECTION (Frame Level) . . .	1	b		Use seal kit #103075 for all related seals.	
		<i>(includes items 5-7)</i>		c		Use seal kit #103065 for all related seals.	
06 ^g	103053	HYD. CONTROL KIT (actuator) . . .	1	d		Use seal kit #103066 for all related seals.	
07 ^h	103052	CHECK VALVE	1	e		Use seal kit #103067 for all related seals.	
08 ^c	103056	WORK SECTION (Boom In/out) . . .	1	f		Items included with seal kit are not shown in detail. For five-section valves, order seal kits: (1)103062 main valve seal kit and (1) 103087 auxiliary section seal kit.	
		<i>(includes items 8-12)</i>					
09 ^g	103053	HYD. CONTROL KIT (actuator) . . .	1				
10 ^h	103048	ANTI-SHOCK VALVE (140 BAR) . . .	1	g		Includes outer caps, o-rings, bolts, plug and internal spool spring for this work section; does not include o-rings for valves/plugs or the spool.	
11 ^h	103052	CHECK VALVE	1				
12 ^h	103046	ANTI-CAVITATION VALVE	1	h		Includes required seals/o-rings for this valve/plug. Seals/o-rings for this valve are not sold individually, however they are included with the work section seal kit where this valve is used.	
13 ^d	103057	WORK SECTION (Boom Up/Down) 1		i		Order four kits to replace all four studs, eight nuts and eight washers.	
		<i>(includes items 13-17)</i>					
14 ^g	103053	HYD. CONTROL KIT (actuator) . . .	1	x		Does not include auxiliary hydraulics valve section.	
15 ^h	103046	ANTI-CAVITATION VALVE	1	y		Includes auxiliary hydraulics valve section (not shown) refer to next page for information regarding auxiliary hydraulics work section.	
16 ^h	103052	CHECK VALVE	1				
17 ^h	103047	KIT PLUG	1				
18 ^e	103058	WORK SECTION (Tilt)	1				
		<i>(includes items 18-22)</i>					
19 ^g	103053	HYD. CONTROL KIT (actuator) . . .	1				
20 ^h	50380891	VALVE/COMB-ANTI-CAV.	1				
21 ^h	103052	CHECK VALVE	1				
22 ^h	50380891	VALVE/COMB-ANTI-CAV.	1				
23	103061	OUTLET SECTION	1				
		<i>(includes item 24)</i>					



Hydraulic Components

RS Series

Main Valve - Auxiliary Hydraulics Work Section





Telescopic Handler

Hydraulic Components

Main Valve - Auxiliary Hydraulics Work Section

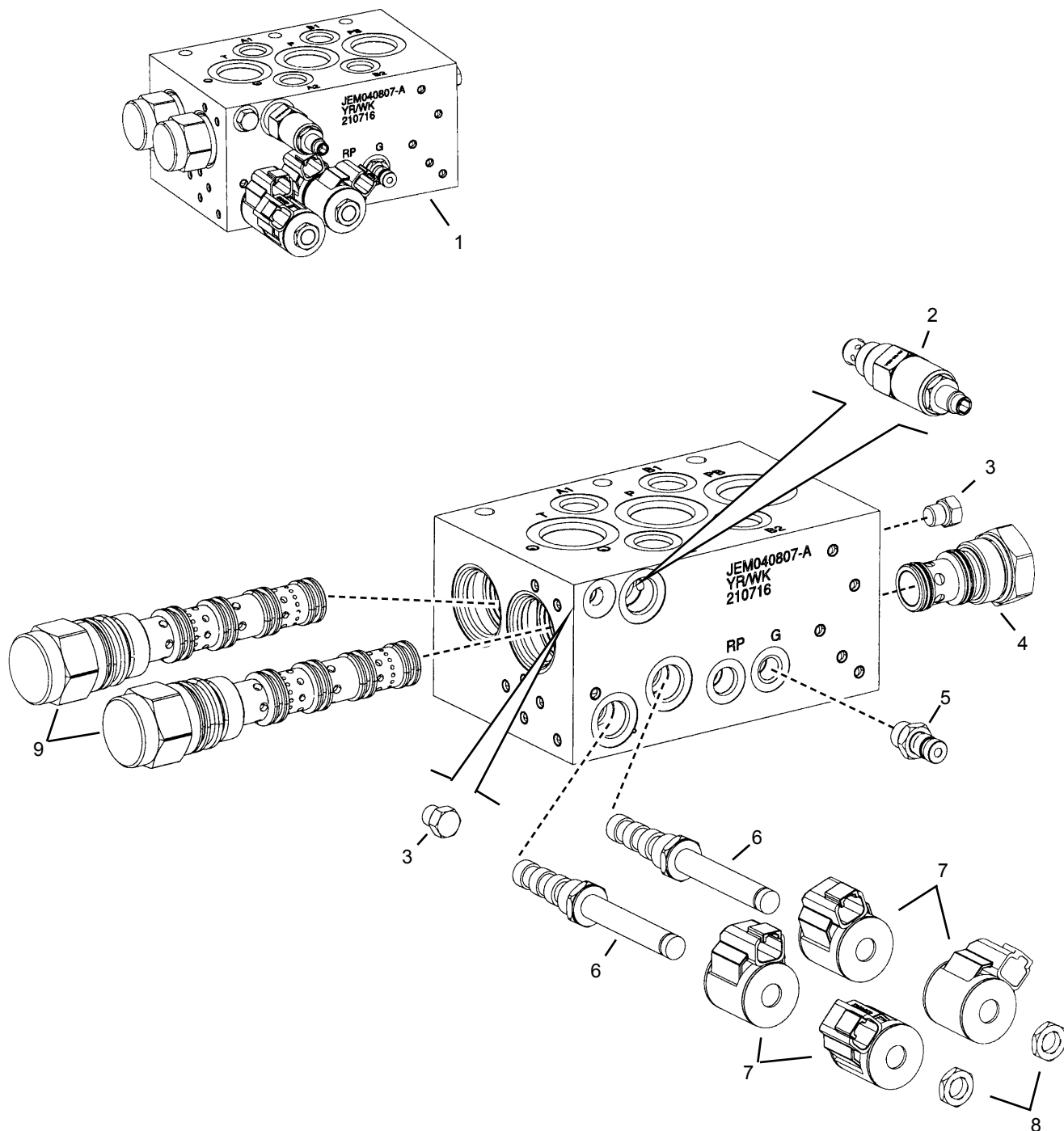
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	102420	AUXILIARY HYD WORK SECT. 1 <i>(includes items 2-5)</i>		05	NSS	VALVE BODY	1
02 ^a	103053	HYDRAULIC CONTROL KIT	1	06 ^b	103087	SEAL KIT	1
03 ^c	103086	ANTI-SHOCK VALVE	1	-- ITEMS NOT SHOWN --			
04 ^c	103052	CHECK VALVE	1	00	102807	KIT, FIVE SECTION TIE BOLT 4 <i>(includes one bolt, two nuts, and two washers)</i>	
				a	<i>Includes outer caps, o-rings, bolts, plug, and internal spool spring for this work section; does not include o-rings for valves, plugs, or the spool.</i>		
				b	<i>Items included with seal kit are not shown in detail.</i>		
				c	<i>Seals/O-rings for this valve are not sold individually; however, they are included with the work section seal kit where this valve is used.</i>		
				d	<i>Order four kits to replace all four studs: eight nuts and eight washers.</i>		



Hydraulic Components

Outrigger Valve

RS Series





Telescopic Handler

Hydraulic Components
Outrigger Valve

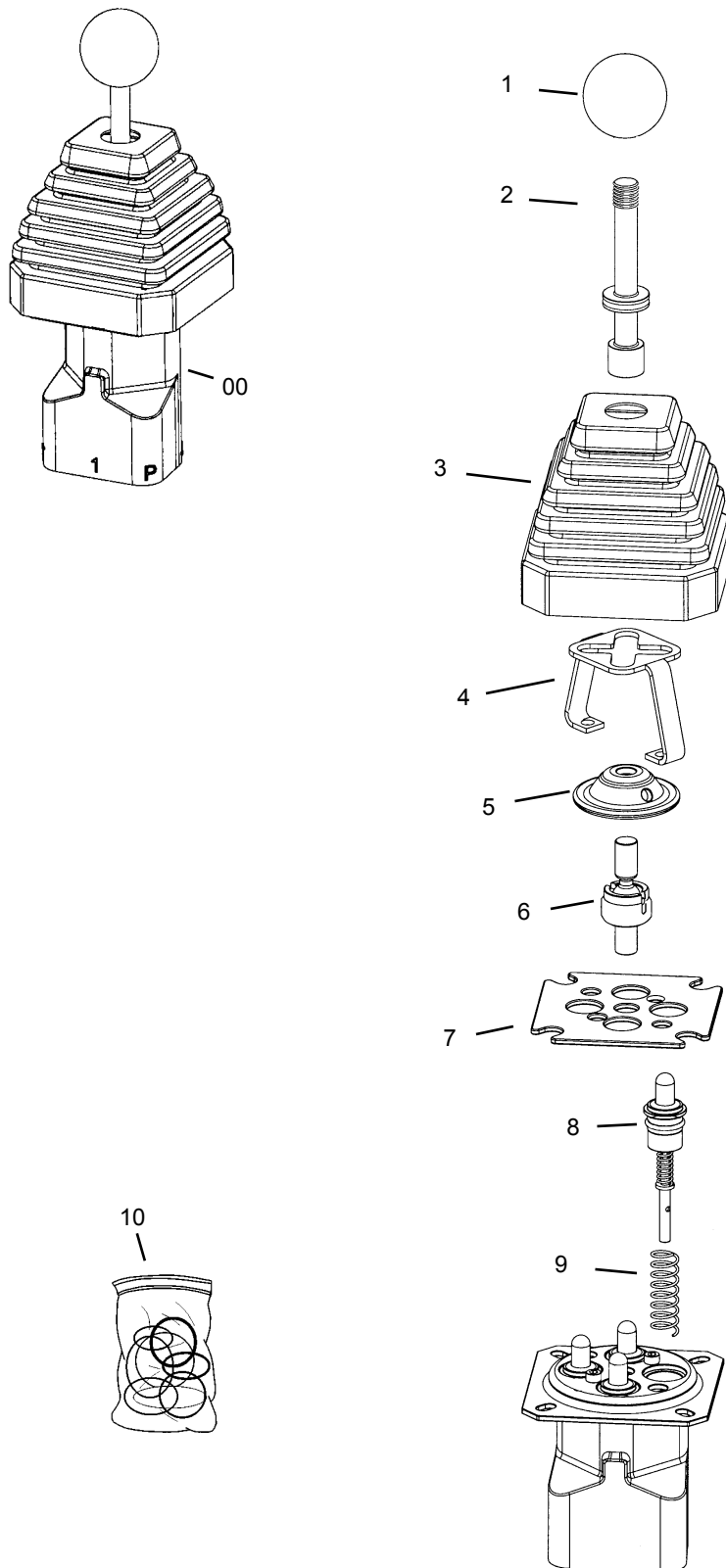
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	210716	OUTRIGGER VALVE	1	07	104736	E-COIL	4
02	L99927	DIFFERENTIAL RELIEF VALVE . . .	1	08	NSS	COIL NUT (<i>included with item 6</i>) . . .	2
	L99925	SEAL KIT	1	09	106880	PROPORTIONAL VALVE	2
03	230-32364	ADAP., -4 ORM SAE PLUG	2			-- (ITEMS NOT SHOWN) --	
04	106878	PILOTED SPOOL	1	25	210723	WIRE HARNESS, OUTRIGGERS. . .	1
	190-32851	SEAL KIT	1				
05 ^a	P471997	TEST PORT	1				
06	50280198	4-WAY/3-POS. VALVE	2	a		Optional parts (<i>not included or shown</i>):	
	106883	SEAL KIT (<i>1 per valve</i>)	AR		L62840	DUST CAP	1
					L62933	FEMALE COUPLER	1



Hydraulic Components

Controller - Tilt/Frame Level

RS Series





Telescopic Handler

Hydraulic Components

Controller - Tilt/Frame Level

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	102784	HYDRAULIC CONTROLLER	1	07	103116	PLATE, BOOT MOUNT	1
01	103122	KNOB.	1	08	103079	METERING CURVE (<i>as shown</i>) . . .	4
02	103112	LEVER ROD (<i>as shown</i>)	1	09	103080	RETURN SPRING	4
03	103113	BOOT.	1	10 ^a	103117	SEAL KIT	1
04	102674	LOCK GATE	1				
05	103114	SELECTOR DISC	1				
06	103115	PIVOT, BALL JOINT	1				

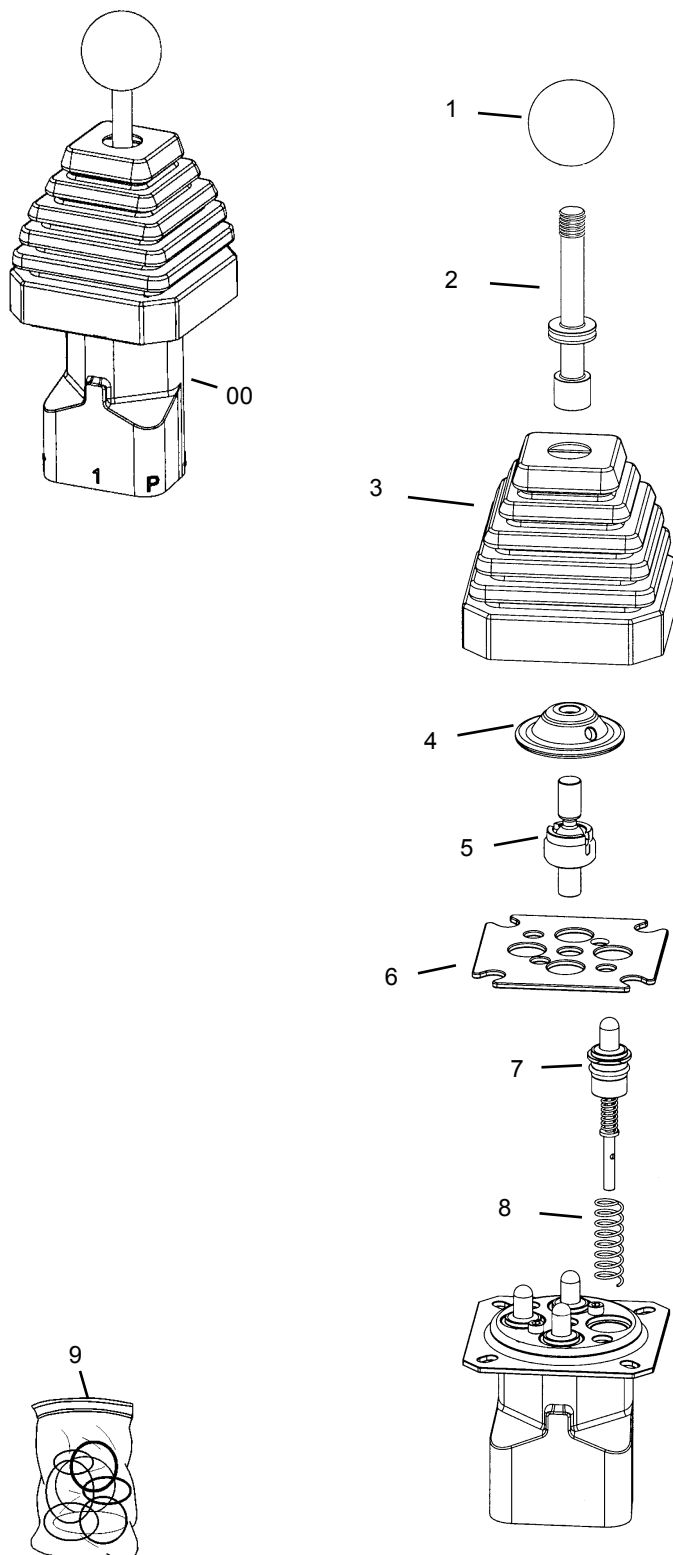
a Items included in seal kit are not shown.



Hydraulic Components

Controller - Boom Lift/Extend

RS Series





Telescopic Handler

Hydraulic Components

Controller - Boom Lift/Extend

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	102434	HYDRAULIC CONTROLLER	1	06	103116	PLATE /BOOT MOUNT	1
01	103122	KNOB.	1	07	103079	METERING CURVE (<i>as shown</i>) . . .	4
02	103112	LEVER ROD (<i>as shown</i>)	1	08	103080	RETURN SPRING	4
03	103113	BOOT.	1	09 ^a	103117	SEAL KIT	1
04	103114	SELECTOR DISC	1				
05	103115	PIVOT, BALL JOINT	1				

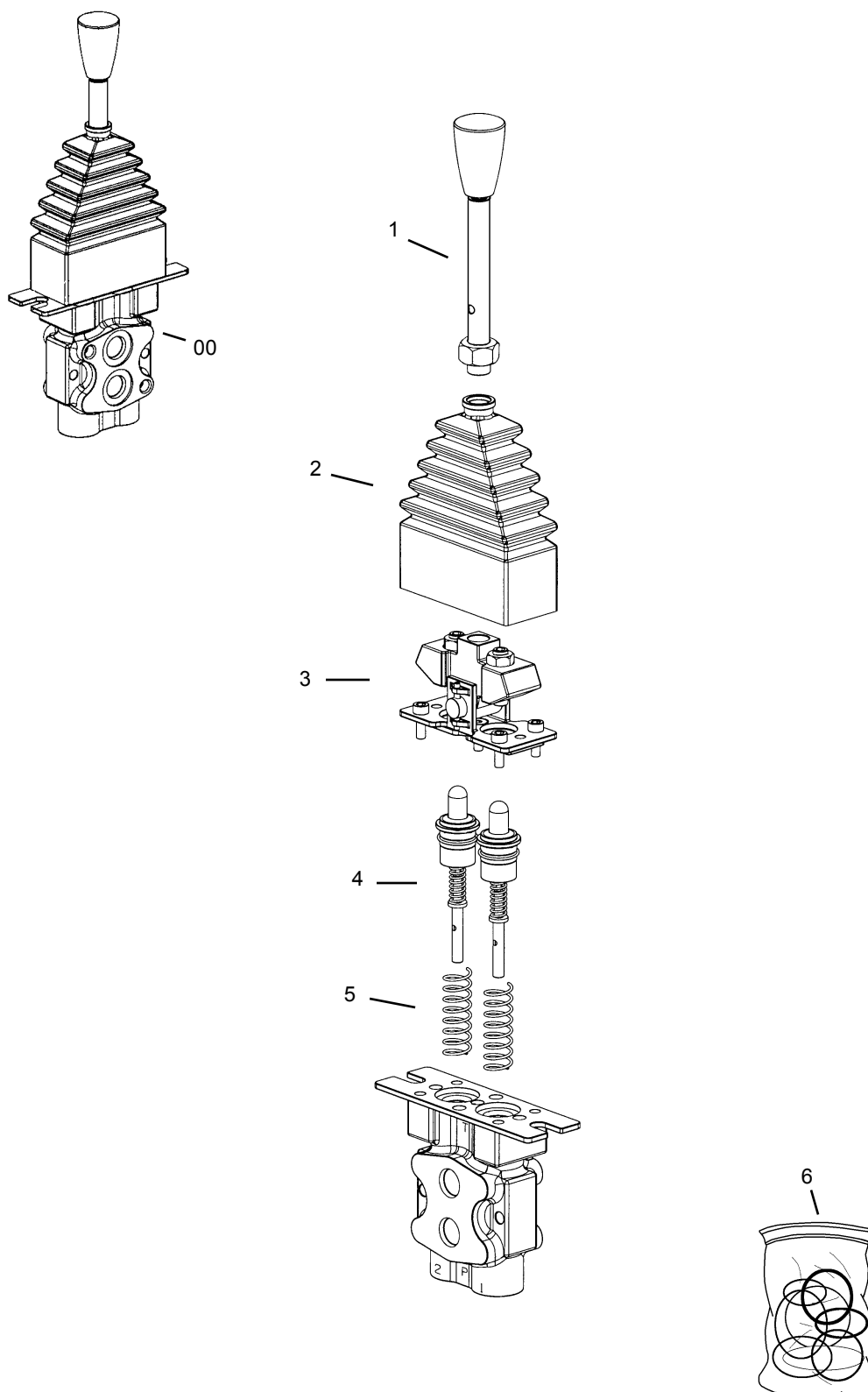
a Items included in seal kit are not shown.



Hydraulic Components

RS Series

Controller - Auxiliary Hydraulics (Standard) - Frame Level (Tri-Function)





Telescopic Handler

Controller - Auxiliary Hydraulics (Standard) - Frame Level (Tri-Function)

Hydraulic Components

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	102435	HYDRAULIC CONTROLLER	1	04	103079	METERING CURVE (<i>as shown</i>) . . .	2
01	103077	LEVER ROD (<i>as shown</i>)	1	05	103080	RETURN SPRING	2
02	103084	BOOT (<i>included with item 3</i>)	1	06 ^a	103083	SEAL KIT	1
03	103078	CONTROL KIT	1				
		(<i>includes item 2</i>)					

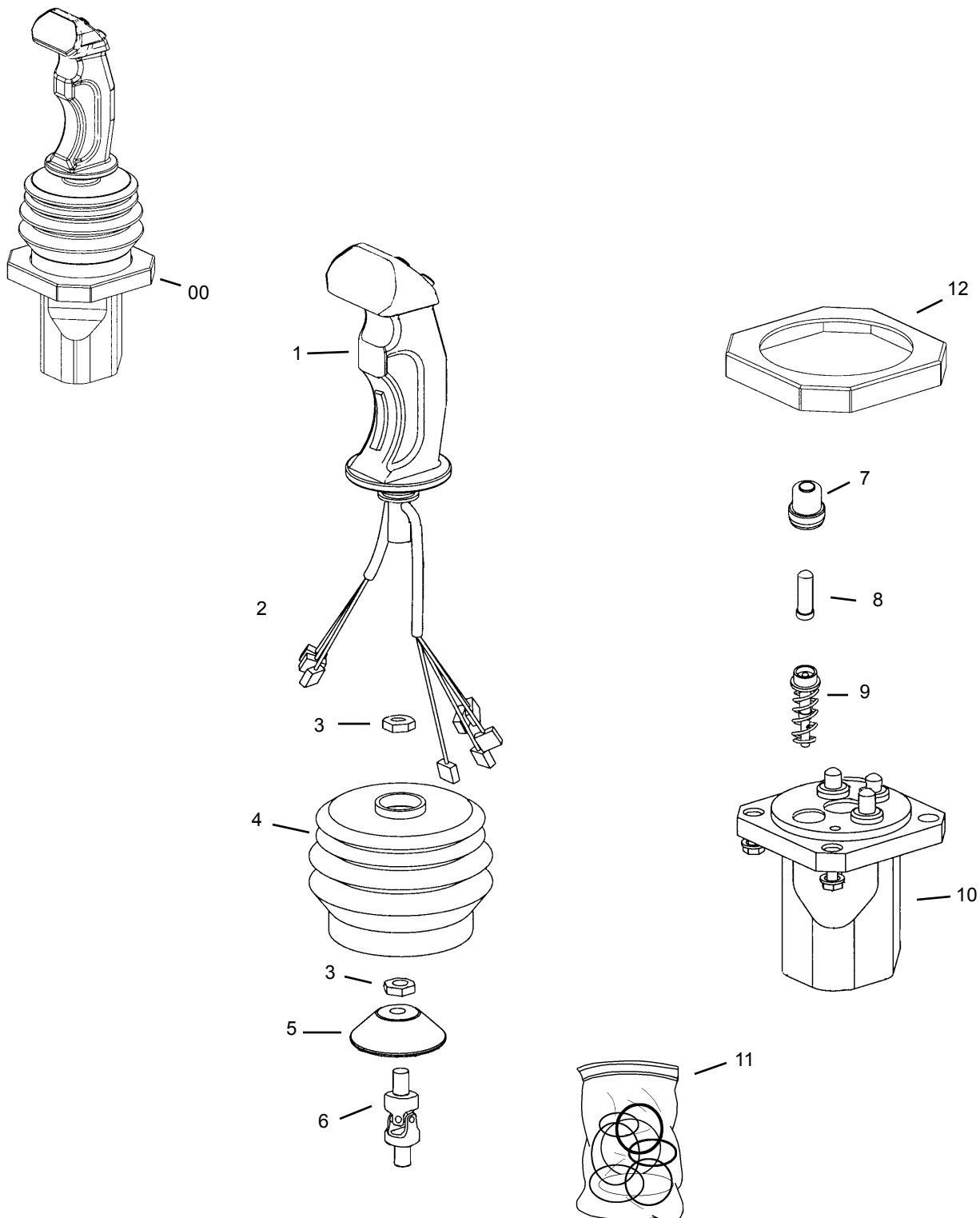
a Items included in seal kit are not shown.



Hydraulic Components

Controller - Tri-Function

RS Series





Telescopic Handler

Hydraulic Components

Controller - Tri-Function

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	104083	JOYSTICK, 4-BUTTON/TRIGGER .	1	08	L500690	HPV SPINDLE 10mm	4
01	L500371	HANDLE W/4-BUTTONS	1	09	104223	PILOT SPRING PACK C059	4
02	L62761	WIRE CONNECTOR	8	10	NSS	BODY ASSEMBLY	1
03	L500688	NUT M10 UNI	2	11 ^a	L500653	SEAL REPAIR KIT	1
04	L500656	RUBBER BOOT	1	12	104304	BEZEL, JOYSTICK	1
05	L500689	SELECTOR DISC	1				
06	L500652	UNIVERSAL JOINT	1				
07	L500692	SPINDLE GUIDE ASSEMBLY	4				

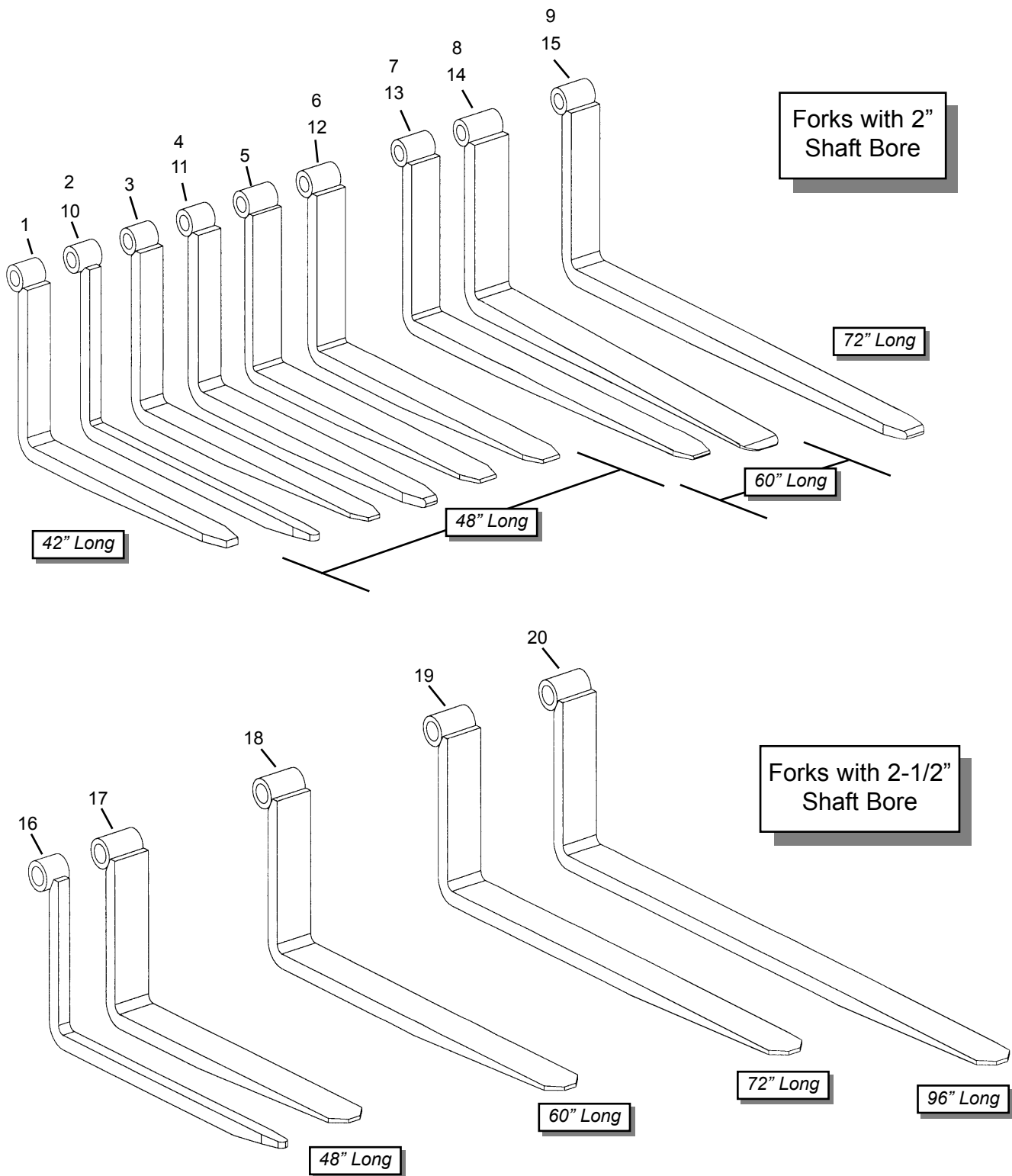
a Items included in the seal kit are not shown.



Attachments

Carriage Forks

RS Series





Telescopic Handler

Attachments Carriage Forks



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 your dealer (or manufacturer).

RS6 and RS8 Models Only

Ref. No.	Part No.	Description	Qty. Req.
-- 2" FORK SHAFT DIAMETER --			
		(42" long)	
01	L71350	FORK, 42"x4"x2" (8,400 lbs.)	2
		(48" long)	
02 ^a	L61001	FORK, 48"x2"x2" (4,200 lbs.)	4
03	L61017	FORK, 48"x4"x2" (8,400 lbs.)	2
04	L66406	FORK, 48"x4"x2-1/4" (12,000 lbs.)	2
05	L400929	FORK, 48"x5"x1-3/4" (8,500 lbs.)	2
06	L47263	FORK, 48"x5"x2" (10,500 lbs.)	2
		(60" long)	
07	L47265	FORK, 60"x5"x2" (10,500 lbs.)	2
08	L60961	FORK, 60"x6"x2-1/4" (12,500 lbs.)	2
		(72" long)	
09	L68331	FORK, 72"x5"x2" (10,500 lbs.)	2

a Requires 2 sets (4 forks).



NOTE: Ratings for forks listed in the RS6 and RS8 Models Only column are based on two forks with a load center of 24"; except for item #2 where four forks are required.

RS10 and RS12 Models Only

Ref. No.	Part No.	Description	Qty. Req.
-- 2" FORK SHAFT DIAMETER --			
		(48" long)	
10 ^{bc}	L61001	FORK, 48"x2"x2" (4,200 lbs.)	6
11	L66406	FORK, 48"x4"x2-1/4" (12,000 lbs.)	2
12	L47263	FORK, 48"x5"x2" (10,500 lbs.)	2
		(60" long)	
13	L47265	FORK, 60"x5"x2" (10,500 lbs.)	2
14	L60961	FORK, 60"x6"x2-1/4" (12,000 lbs.)	2
		(72" long)	
15	L68331	FORK, 72"x5"x2" (10,500 lbs.)	2
-- 2-1/2" FORK SHAFT DIAMETER --			
		(48" long)	
16 ^d	L61001	FORK, 48"x2"x2" (4,200 lbs.)	6
17 ^d	L71159	FORK, 48"x6"x2" (12,600 lbs.)	2
		(60" long)	
18 ^d	L71160	FORK, 60"x6"x2" (12,600 lbs.)	2
		(72" long)	
19 ^d	L71161	FORK, 72"x6"x2" (12,600 lbs.)	2
		(96" long)	
20 ^d	210736	FORK, 96"x5"x2-1/4" (12,000 lbs.)	2

b Requires three sets (6 forks).
c Used ONLY on RS10-44 and RS10-55 models.
d Used ONLY on RS12-42 model.



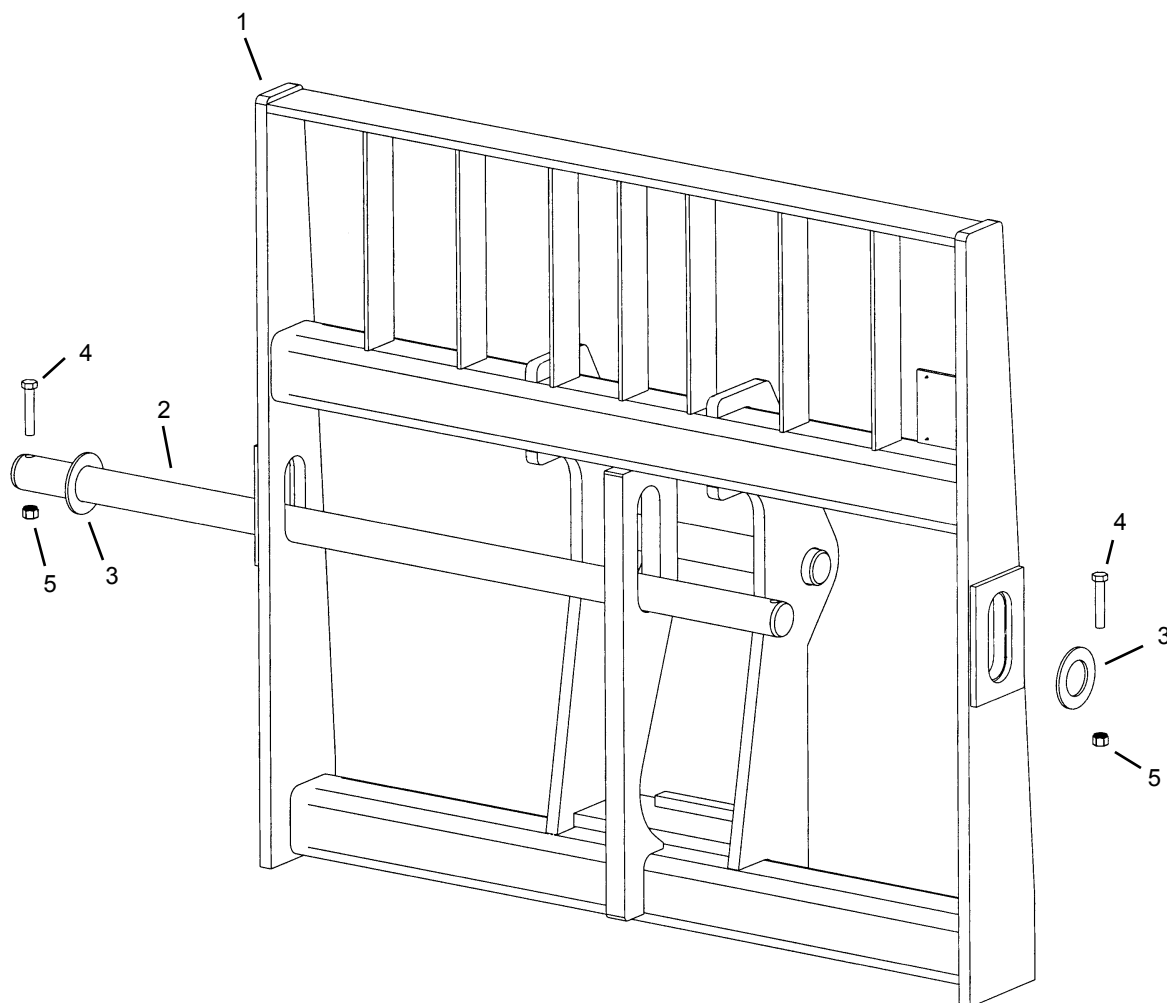
NOTE: Ratings for forks listed in the RS10 and RS12 Models Only column are based on two forks with a load center of 24"; except for items #10 and #16 where six forks are required.



Attachments

Standard Carriage

RS Series

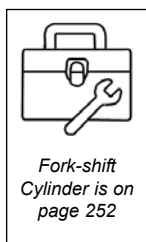


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		CARRIAGE WELDMENT	1	03		FORK SHAFT WASHER	2
	L99190	48" (uses 2" pin)	1		L400425	Note a	
	430171	48" (uses 2-1/2" pin)	1		100369	Note b	
	L99191	66" (uses 2" pin)	1	04		BOLT	2
	430173	66" (uses 2-1/2" pin)	1		L510003	1/2"X2-3/4" - (Note a)	2
	210407	72" (uses 2" pin)	1		L50294	1/2"-13"X3-1/2" - (Note b)	2
	104870	72" (uses 2-1/2" pin)	1	05	L520019	1/2"-13 NYLON INSERT NUT	2
02		FORK SHAFT BAR	1				
	L65223	(2"X51-1/2")	1	a		Used with 2" diameter fork shaft bar.	
	L64561	(2"X69-1/2")	1	b		Used with 2-1/2" diameter fork shaft bar.	
	L68493	(2"X75-1/2")	1				
	101625	(2-1/2"X51-1/2")	1				
	101624	(2-1/2"X69-1/2")	1				
	104844	(2-1/2"X74-3/4")	1				

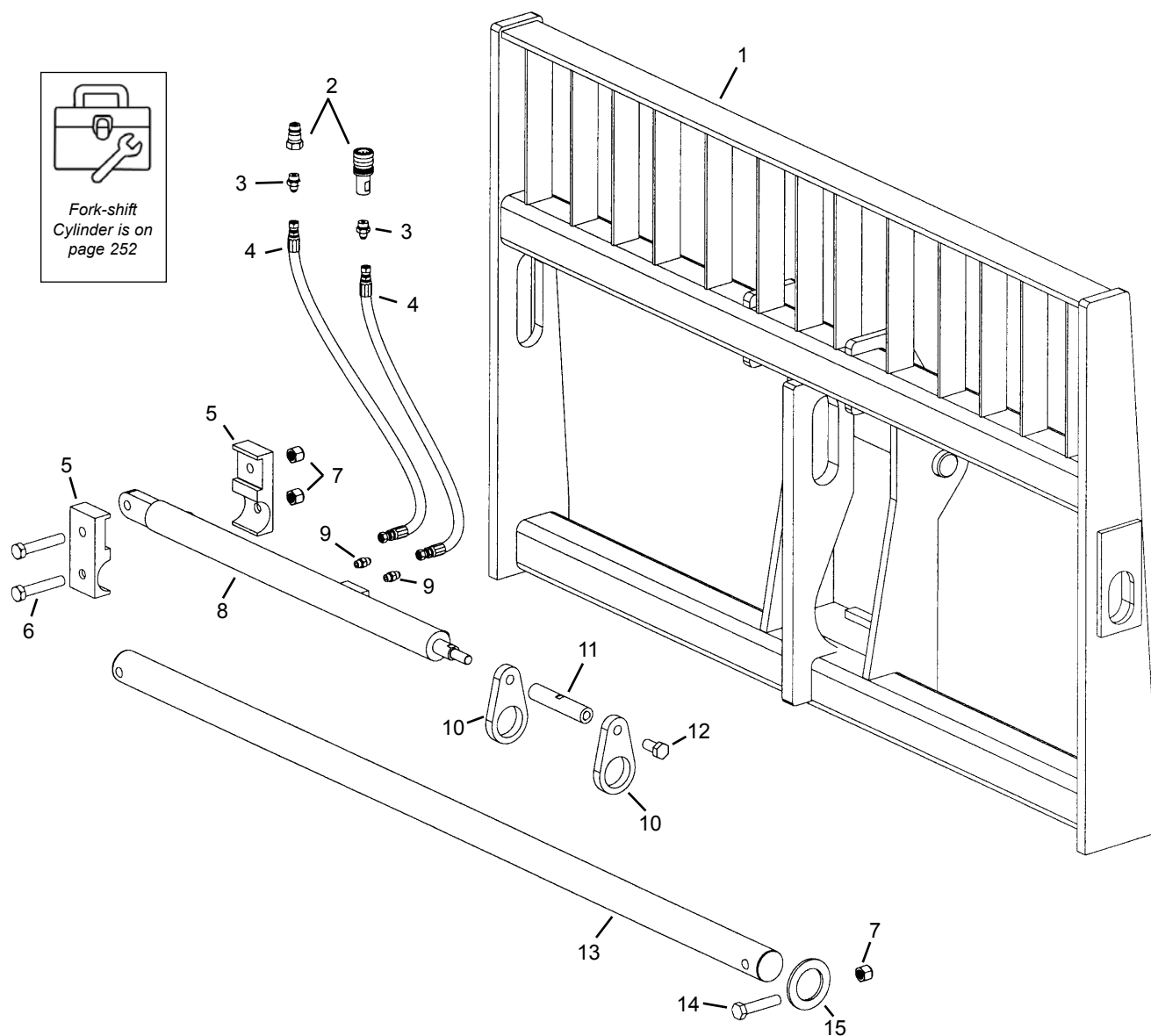


Telescopic Handler

Attachments

Dynattach® 72" Fork-Shift Carriage

Fork-shift
Cylinder is on
page 252



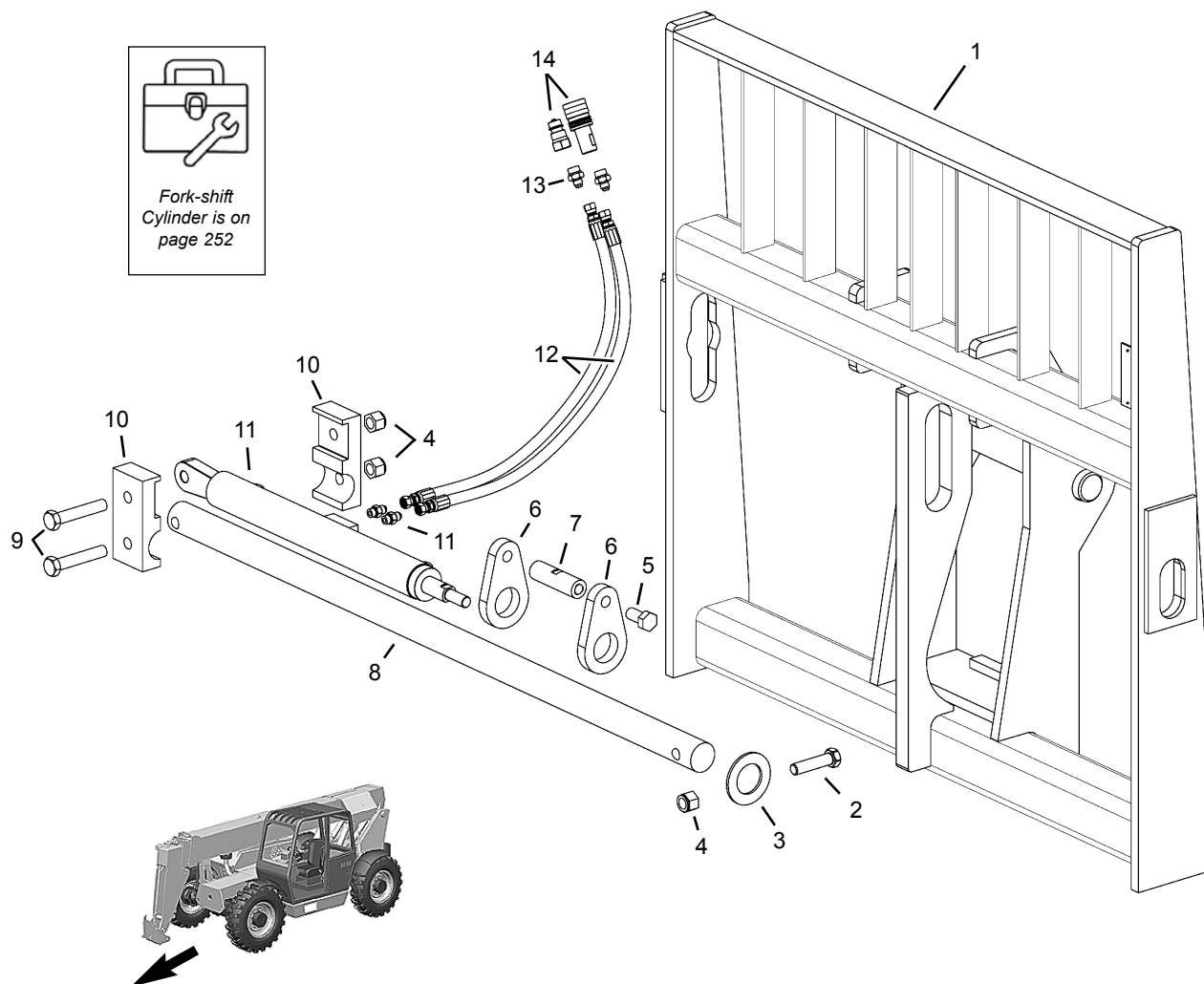
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	210926	72" FORK-SHIFT CARRIAGE 1 (Dynattach® Carriage) (frame)		09	054994	ADAP., -6ORM -6JICM 2	
02	L65273	COUPLER SET 1		10	210904	FORK SLIDE PLATE 2	
03	L63143	ADAP -8ORM -6JICM W/.06 ORF . 2		11	210905	COUPLER, 6" 1	
04	175720	HOSE -6 A6/A6 51" 2		12	650500	3/4" x 1-1/2" BOLT 1	
05	210898	CLAMP, CYLINDER MOUNT 2		13	210906	SHAFT, 2-1/2" x 77-5/8" 1	
06	L50562	3/4"-10 x 4" BOLT 2		14	650173	3/4"-10 x 3-1/2" BOLT 1	
07	079209	3/4"-10 NYLON INSERT NUT 3		15	100369	FORK SHAFT WASHER 1	
08	210901	FORK-SHIFT CYLINDER 1					
				a	Fork-shift carriage weldment only; items 2-20 will need to be ordered separately.		



Attachments

RS Series

Dynattach® 48" Fork-Shift Carriage



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	50220665	48" FORK-SHIFT FRAME	1	09	L50562	3/4"-10x4" BOLT	2
02	L50333	3/4"-10x3" BOLT	1	10	L66918	CYLINDER MOUNT	2
03	L400425	FORK SHAFT WASHER	1	11	210932	FORK SHIFT CYLINDER	1
04	079209	3/4"-10 NYLON INSERT NUT	3	12	175720	HOSE, -6 A6/A6 51"	2
05	650500	3/4"-10x1-1/2" BOLT	1	13	L63143	ST MJ06-MORB08 ORIFICE	2
06	L66931	FORK SLIDE PLATE	2	14	L65273	COUPLER SET	1
07		FORK SLIDE COUPLER	1				
	L66921	4" wide forks					
	L66948	5" wide forks					
08	210934	FORK SHAFT (2" x 53-1/8")	1				

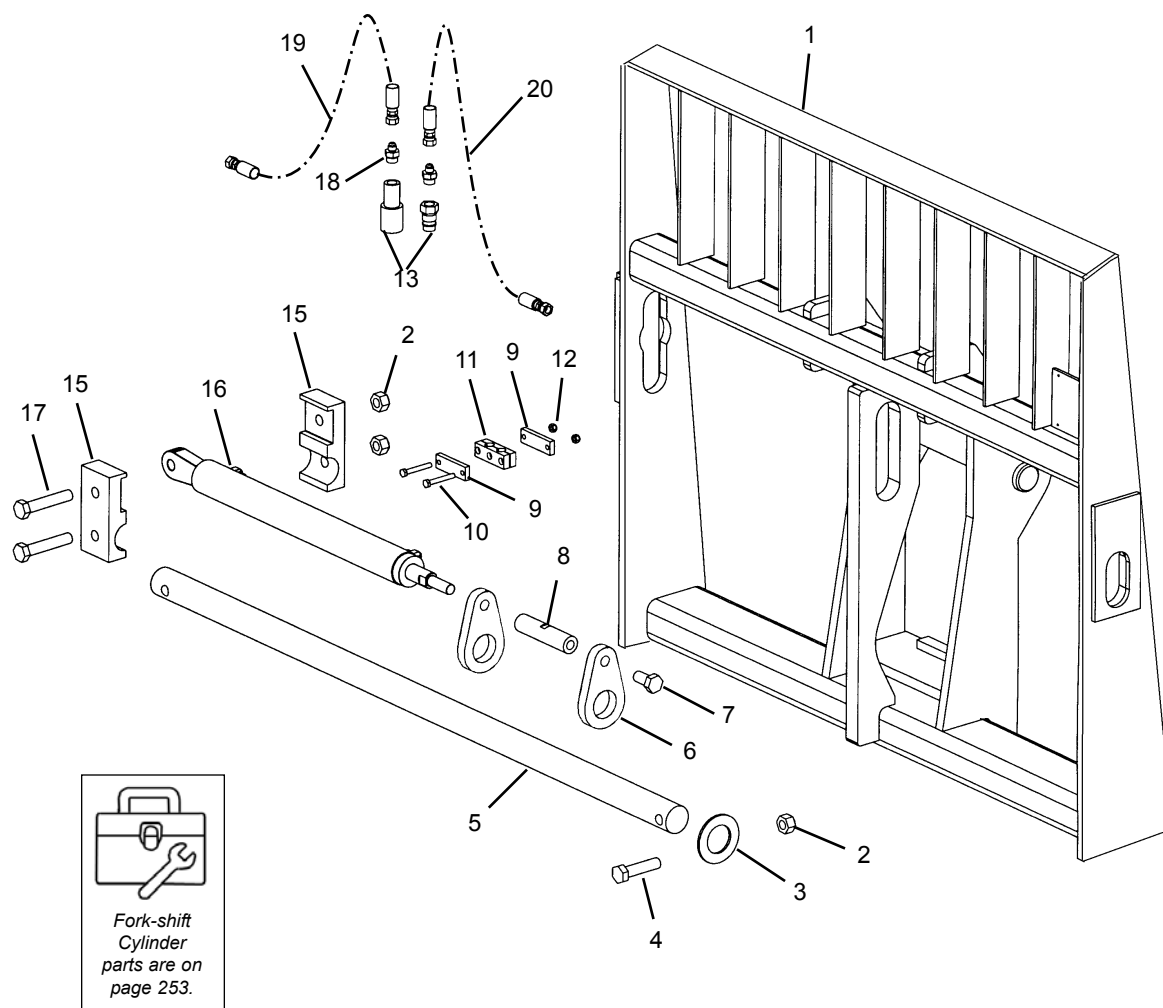
^a Fork-shift carriage weldment only; items 2-14 are separate parts and can be order individually.



Telescopic Handler

Attachments

Dynattach® 50" Fork-Shift Carriage



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L500213	FORK-SHIFT CARRIAGE	1	12	L520004	5/16"-18 NYLON INSERT NUT	2
02	L50519	3/4"-10 NYLON INSERT NUT	3	13	L65273	QUICK-COUPLER SET	1
03	L400425	FORK SHAFT WASHER	1	15	L66918	CYLINDER MOUNT	2
04	L50333	3/4"-10X3" BOLT	1	16	L68337	FORK-SHIFT CYLINDER	1
05	L66919	FORK SHAFT, 50"	1	17	L50562	3/4"-10X4" BOLT	2
06	L66931	FORK SLIDE PLATE	2	18	L63143	ADAP., -8ORM -6JICM W/.06 ORF. 2	
07	650500	3/4"-10X1-1/2" BOLT	1	19	L66950	HOSE, -6 A6/A6 59"	1
08	Note a	FORK SLIDE COUPLER	1	20	L66949	HOSE, -6 A6/A6 56"	1
09	L63715	TWIN CUSHION TOP PLATE	2				
10	L50242	5/16"-18X2-1/4" BOLT	2				
11	L63716	TWIN HOSE CUSHION	1				

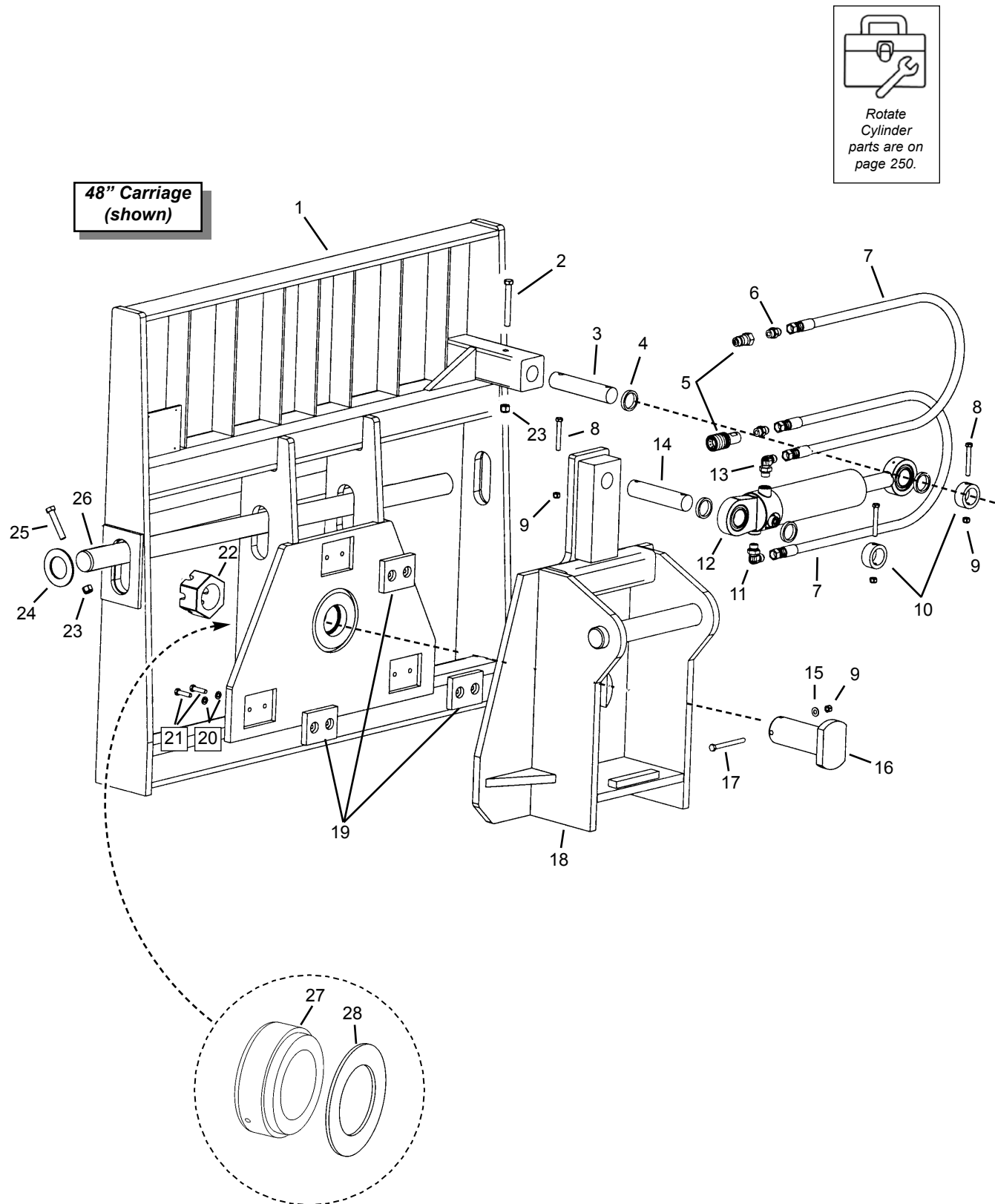
a For 4" wide forks use P/N L66921.
For 5" wide forks use P/N L66948.



Attachments

Rotating Carriage

RS Series





Telescopic Handler

Attachments Rotating Carriage

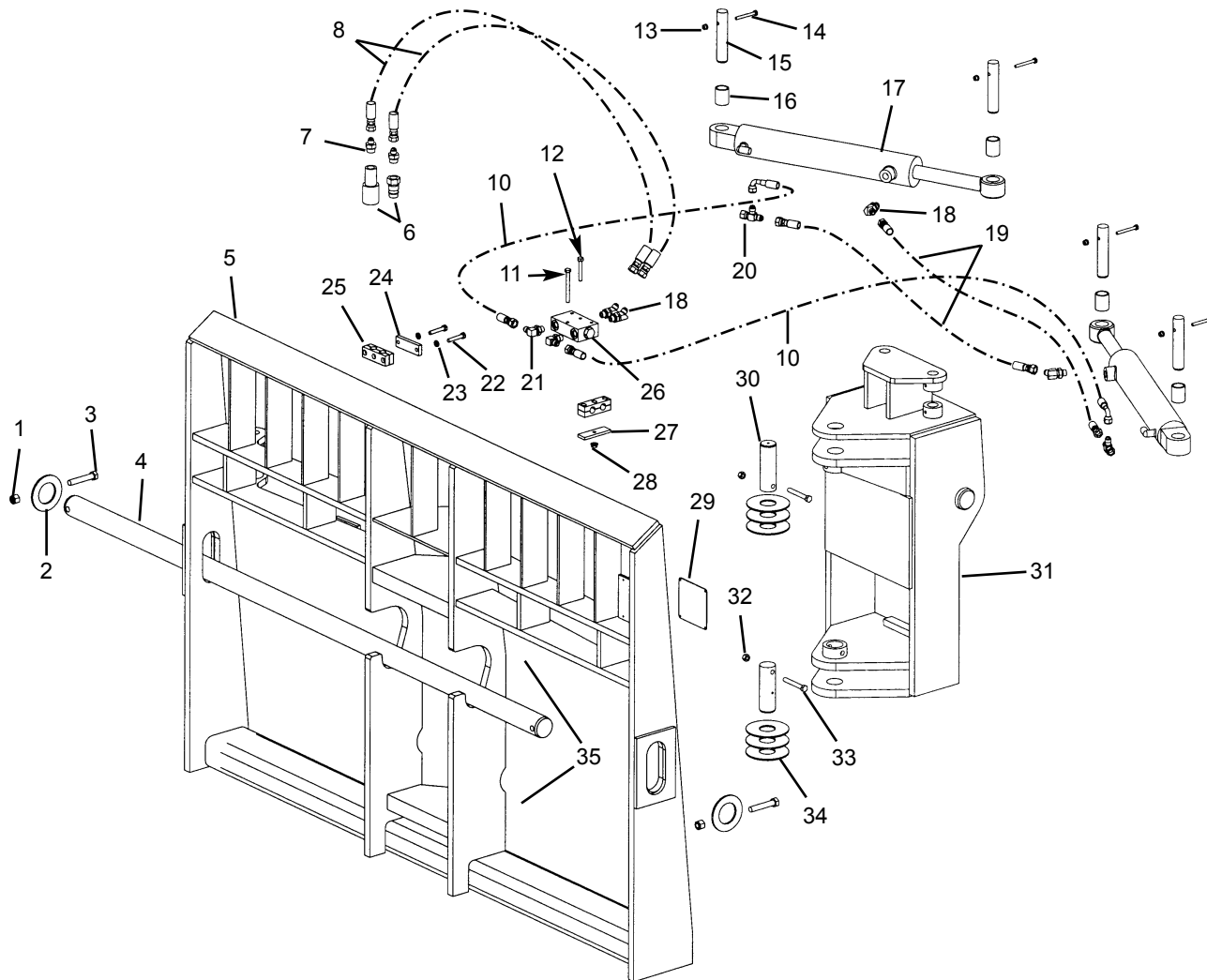
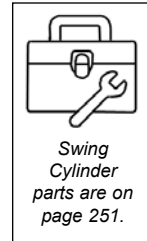
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		CARRIAGE, ROTATING	1	18	101999	ROTATOR PLATE WELDMENT . . .	1
	103517	(48" Carriage) 2" dia. fork shaft		19	L61709	SLIDE PAD	3
	103518	(66" Carriage) 2" dia. fork shaft		20	L50147	3/8" LOCK WASHER.	6
	103519	(48" Carriage) 2-1/2" dia. fork shaft		21	L50261	3/8"X1-1/2" BOLT	6
	103520	(66" Carriage) 2-1/2" dia. fork shaft		22	L50718	2-1/2"-12 CASTLE NUT.	1
02	L50982	1/2"X4" BOLT.	1	23	L520019	1/2"-13 NYLON INSERT NUT	4
03	L65181	PIN, ROTATOR ROD END	1	24		FORK SHAFT WASHER.	2
04	L61307	SPACER	4		L400425	2" ID	
05	L65273	QUICK COUPLER SET.	1		100369	2-1/2" ID	
06	054626	ADAP., -8ORM -8JICM STR	2	25		BOLT	2
07	L64294	HOSE, -8 A8/A8 53"	2		L510003	1/2"X2-3/4" BOLT (2" dia. shaft)	
08	L50273	3/8"X2-3/4" BOLT	3		L50294	1/2"X2-3/4" BOLT (2-1/2" dia. shaft)	
09	L520005	3/8"-16 NYLON INSERT NUT . . . AR		26		FORK SHAFT BAR	1
10	L62026	LOCK COLLAR 1.5" OD	2		L65223	(48" Carriage) 2" dia. fork shaft	
11	L66017	ADAP., -8ORM -8JICM 90° w/ORF..	2		L64561	(66" Carriage) 2" dia. fork shaft	
12	L70655	ROTATE CYLINDER	1		101625	(48" Carriage) 2-1/2" dia. fork shaft	
13	L66017	ADAP., -8ORM -8JICM 90° w/ORF..	2		101624	(66" Carriage) 2-1/2" dia. fork shaft	
14	L65180	PIN, ROTATOR BASE END	1	27	100990	BEARING	1
15	L50145	3/8" FLAT WASHER. AR		28	L61287	WASHER (not shown) AR	
16	101003	ROTATOR PIN.	1				
17	L50801	3/8"X4" BOLT.	1				



Attachments

90° Swing Carriage

RS Series





Telescopic Handler

Attachments 90° Swing Carriage

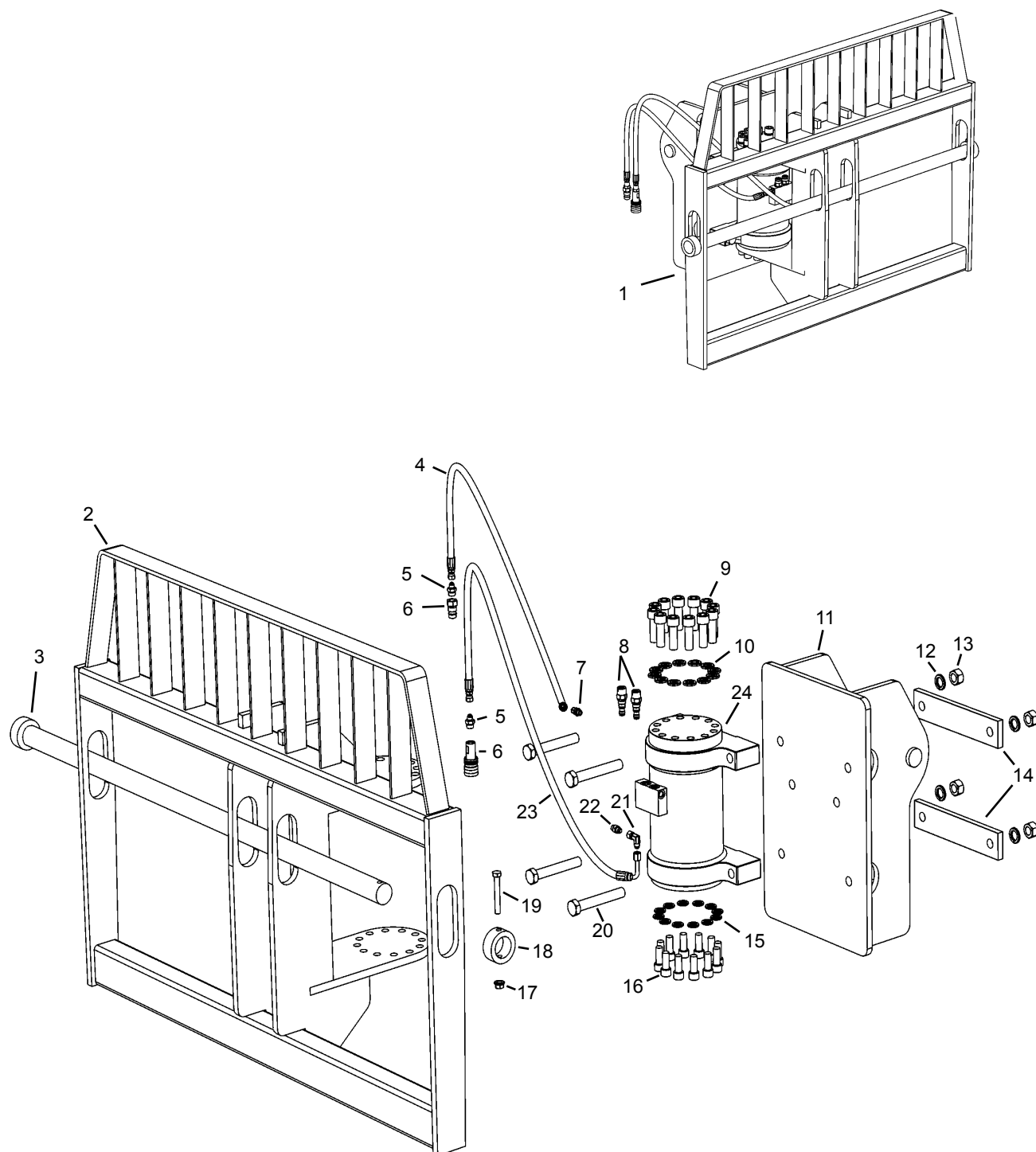
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L520019	1/2"-13 NYLON INSERT NUT	2	20	072806	ADAP., -6JICFS -6JICM TEE	2
02	L400425	FORK SHAFT WASHER	2	21	068938	ADAP., -6ORM -6JICM 90°	2
03	L510003	1/2"X2-3/4" BOLT	2	22	L50561	5/16"-18X1-3/4" BOLT	2
04	L64561	FORK SHAFT BAR (66" Carriage)	1	23	654024	5/16" LOCK WASHER	2
05	L500216	66" CARRIAGE, SWING	1	24	L63715	TWIN CUSH. TOP PLATE	1
06	L65273	COUPLER, FEMALE	1	25	L63716	TWIN HOSE CUSHION	2
07	L63143	ADAP., -8ORM -6JICM STR W.06	2	26	L71651	VALVE, DUAL PO	1
08	L66958	HOSE, -6 A6/A6 89"	2	27	L63233	HOSE CUSH. TOP PLATE	1
10	L63984	HOSE, -4 DS6/A6 22"	2	28	L50056	5/16" FLARE NUT	2
11	650833	5/16"X3" BOLT	1	29	NSS	NAME PLATE	1
12	L50835	5/16"X2" BOLT	1	30	L63994	PIN, CARRIAGE PIVOT	2
13	L520003	1/4" NYLON INSERT NUT	4	31	L70719	SWING PIVOT WELDMENT	1
14	L50452	1/4"X2-1/4" BOLT	4	32	L520005	3/8"-16 NYLON INSERT NUT	2
15	L63995	PIN, SWING CYLINDER	4	33	650493	3/8"-16X2-3/4" BOLT	2
16	L63593	BUSHING	4	34	L63951	THRUST WASHER	6
17	L63970	SWING CYLINDER	2	35	L63468	BUSHING, CARRIAGE PIVOT	2
18	L445004	ADAP., -6ORM -6JICM 45	4			(not shown)	
19	100631	HOSE, -4 A6/A6 36"	2				



Attachments

180° Swing Carriage

RS Series





Telescopic Handler

Attachments 180° Swing Carriage

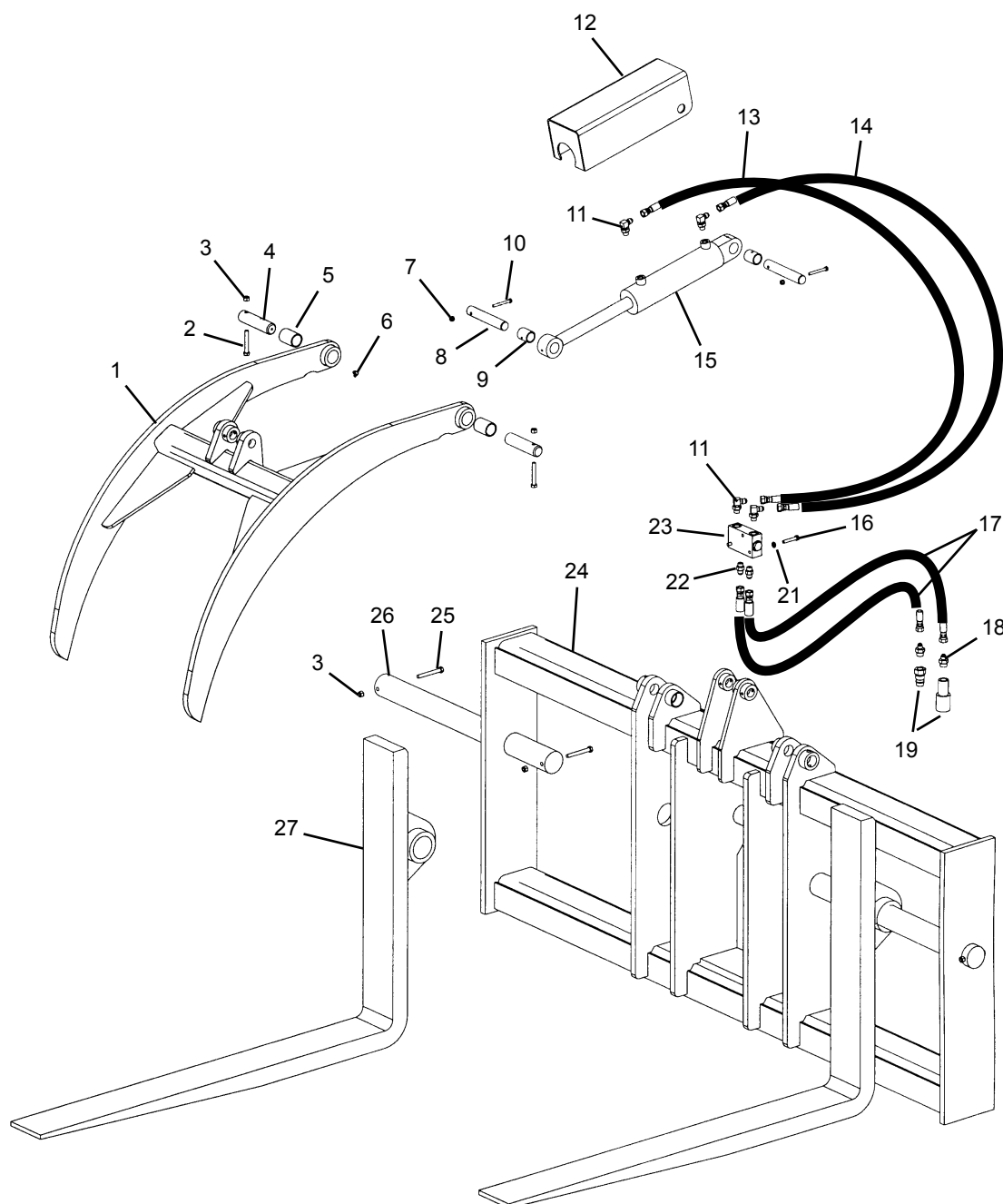
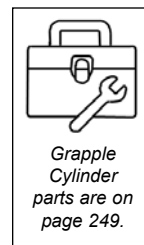
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50860041	CARRIAGE, 180° SWING	1	13	NSS	NUT 1"-8 GR8	4
02	50220297	CARRIAGE WELDMENT	1	14	50220296	PLATE, CROSS SUPPORT	2
03	50220305	FORK SHAFT BAR	1	15	654034	LW 3/4" RZY	12
04	L66950	HOSE, -6 A6/A6 59"	1	16	NSS	SHCS 3/4"	12
05	50380600	ST MJ06-MORB08 (w/orifice)	2	17	081374	HN FL SLOC 1/2 CZY	1
06	L65273	COUPLER SET	1	18	50220306	COLLAR, FORK SHAFT BAR	1
07	079026	45 MJ06-MAORB06	1	19	650650	CS 1/2" x 3-1/2" CZY	1
08	105182	PILOT CHECK VALVE	2	20	NSS	CS 1"-8 x 6-1/2" GR8	4
	105190	SEAL KIT	AR	21	091039	90 MJ06-FJS06	1
09	NSS	SHCS 7/8"	12	22	054994	ST MJ06-MORB06	1
10	650652	LW 7/8 RZY	12	23	50380646	HOSE, -6 AS/DL6 64"	1
11	50220290	DYNATTACH ATTACHMENT	1	24	50220307	ACTUATOR	1
12	NSS	LW 1" GR8	4				



Attachments

Log/Pipe Carriage

RS Series





Telescopic Handler

Attachments Log/Pipe Carriage

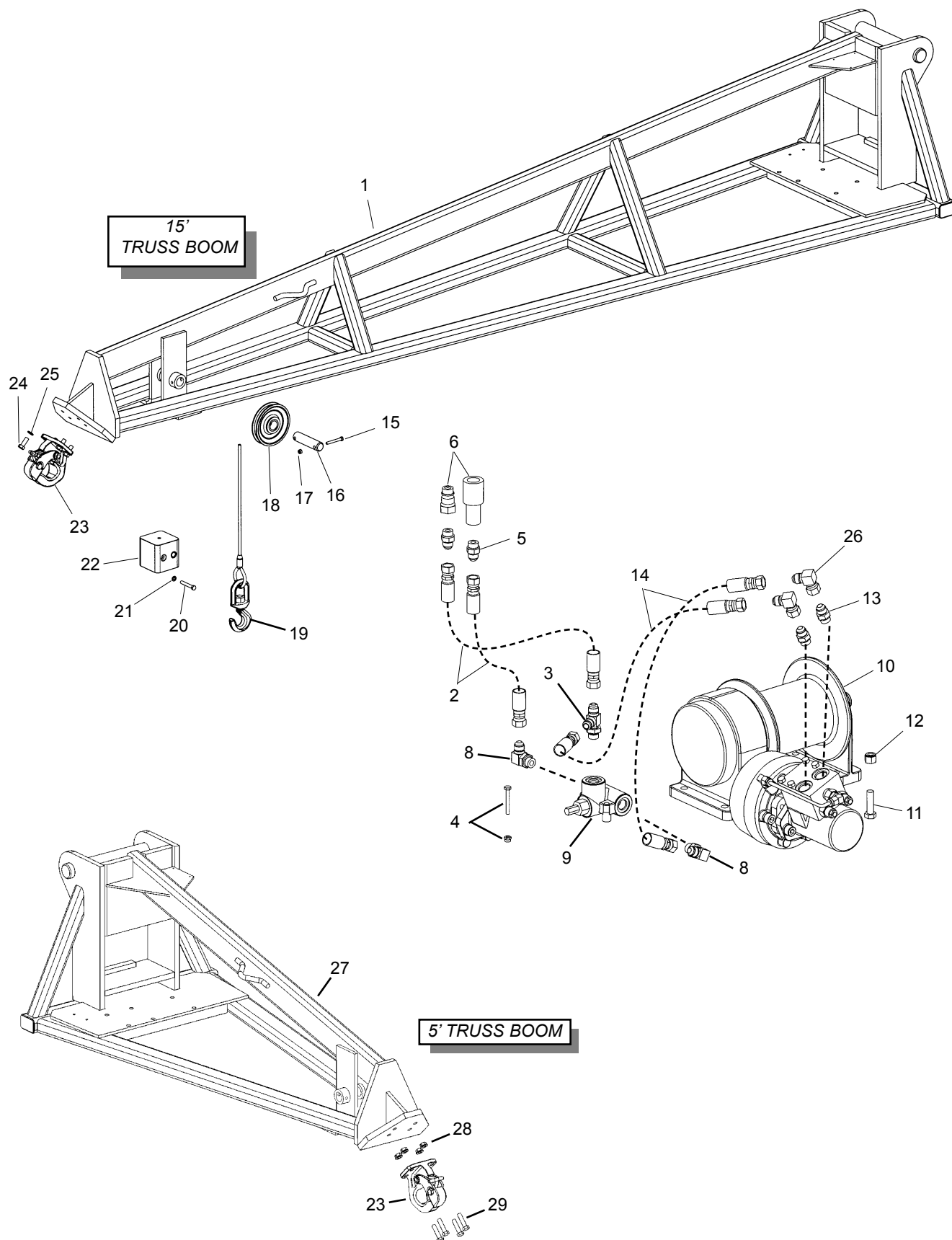
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L67347	LOG GRAPPLE WELDMENT	1	15	L67248	LOG GRAPPLE CYLINDER	1
02	L50371	3/8"X2-1/2" BOLT	2		L98922	SEAL KIT	1
03	L520005	3/8"-16 NYLON INSERT NUT	6	16	L50561	5/16"-18X1-3/4" BOLT	2
04	L67246	LOG GRAPPLE PIVOT PIN	2	17	L66831	HOSE, -6 A6/A6 52"	2
05	L61866	BUSHING	2	18	L63143	ADAP., -8ORM -6JICM w/ORF	2
06	L10057	1/4-28 GREASE ZERK 90°	2	19	L65273	QUICK-COUPLER, SET	1
07	L520003	1/4" NYLON INSERT NUT	2	21	654024	5/16" LOCKWASHER	2
08	L66811	GRAPPLE CYLINDER PIN	2	22	054994	ADAP., -6ORM -6JICM	2
09	L63593	BUSHING	2	23	L71651	VALVE, DOUBLE PORT CHECK	1
10	L50452	1/4X2-1/4" BOLT	2	24	L500220	LOG CARRIAGE WELDMENT	1
11	068938	ADAP., -6ORM -6JICM 90°	4	25	650818	3/8"-16X3" BOLT	4
12	L67495	CYLINDER COVER	1	26	L66809	LOG FORK SHAFT	2
13	L67598	HOSE, -4 A6/A6 32"	1	27		LOG FORK WELDMENT	2
14	L67599	HOSE, -4 A6/A6 20"	1		L66805	2"x5"x48"	
					100547	2"x5"x60"	



Attachments

Truss Booms and Winch

RS Series





Telescopic Handler

Attachments

Truss Booms and Winch

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L99235	15' TRUSS WELDMENT	1	21	654026	3/8" LOCK WASHER	2
02	L64294	HOSE, -8 A8/A8 53"	2	22	L60451	WINCH BALL	1
03	114742	ADAP., -8ORM -8JICM RUN TEE . .	1	23	L61411	PINTLE HOOK	1
04	L50841	1/4"-20"X2" BOLT	2	24	L50380	1/2"-20X1-1/4" GR 8 BOLT	4
	L520003	1/4"-20 NYLON INSERT NUT	2	25	654030	1/2" LOCK WASHER	4
05	054626	ADAP., -8ORM -8JICM STR	2	26 ^c	088442	ADAP., -8JICFS -8JICM 90°	2
06	L65273	QUICK-COUPLER SET	1	27	430497	5' TRUSS W/PINTLE HOOK	1
08	054816	ADAP., -8ORM -8JICM 90°	2			(includes items 23, 30, and 31)	
09	L82358	RELIEF VALVE	1	28	651358	CS 1/2" x 2" GR8Z	4
10	100963	HYDRAULIC WINCH	1	29	210-19532	HN FL CLOC 1/2" CZY	4
11	L50286	1/2"-13X1-3/4" GR 8 BOLT	6				
12	L520019	1/2-13 NYLON INSERT NUT	6				
13	089099	ADAP., -10ORM -8JICM	2				
14	L400398	HOSE, -6 A8/A8 18.5"	2	--	L500223	PLATE, AUGER ADAPTER	1
15	650733	5/16"X2-1/2" BOLT	2			(used with auger)	
16	100076	PIN, TRUSS WINCH	1				
17	L520004	5/16"-18 NYLON INSERT NUT	2				
18	L65338	WINCH SHEAVE	1	a		Used with 15' truss booms with winch.	
19 ^a	L71266	3/8"X100' WINCH CABLE	1	b		Used with 5' truss booms with winch.	
		(includes hook and swivel)		c		Not used on all attachments.	
19 ^b	L66946	3/8"X60' WINCH CABLE	1				
		(includes hook and swivel)					
20	L50371	3/8"X2-1/2" BOLT	2				

-- ITEMS NOT SHOWN--

-- L500223 PLATE, AUGER ADAPTER 1
(used with auger)

a Used with 15' truss booms with winch.

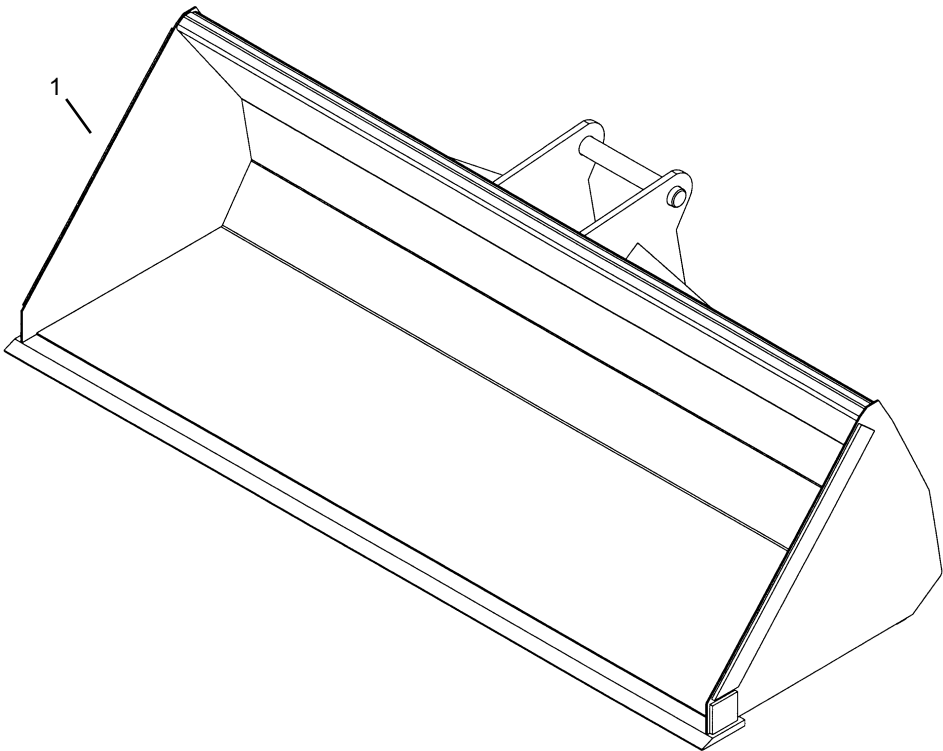
b Used with 5' truss booms with winch.

c Not used on all attachments.



Attachments
Bucket

RS Series



Ref. No.	Part No.	Description	Qty. Req.
01	L500374	1.3 CU. YD. BUCKET WELDMNT . 1	
	L68831	CUTTING EDGE 98" (<i>weld-on</i>) . . . 1	



Telescopic Handler

Decals

General Information and Application

GENERAL INFORMATION



CAUTION

ALWAYS read and follow the safety precautions on decals. Replace decals if they are damaged, or if the unit is repainted. If repainting, **BE SURE** that all applicable decals 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 illustrations 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 illustrations for replacement locations.



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

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 masked decal, first remove the backing paper. Then, properly orient and position the decal onto the clean mounting surface. After the decal is firmly applied and smoothly pressed down, remove the front covering paper.

PAINT FINISH

Use this list to order paint for refinishing:

167788	One Gallon Yellow
167789	6 (12 oz. Spray Cans) Yellow
167754	One Gallon Gun-Metal Gray
167755	6 (12 oz. Spray Cans) Gun-Metal Gray

Decal Kits

50220194	RS6-42 Telescopic Handler without PWP
50220195	RS6-42 Telescopic Handler with PWP
50220196	RS8-42 Telescopic Handler without PWP
50220197	RS8-42 Telescopic Handler with PWP
50220198	RS8-44 Telescopic Handler without PWP
50220199	RS8-44 Telescopic Handler with PWP
50220200	RS10-44 Telescopic Handler without PWP
50220201	RS10-44 Telescopic Handler with PWP
50220202	RS10-55 Telescopic Handler without PWP
50220203	RS10-55 Telescopic Handler with PWP
50220204	RS12-42 Telescopic Handler without PWP
50220205	RS12-42 Telescopic Handler with PWP

NOTE: Decals may be purchased in kits or individually.

Boom Attachment Decals

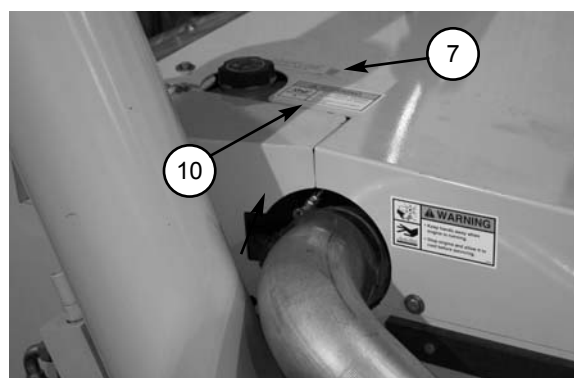
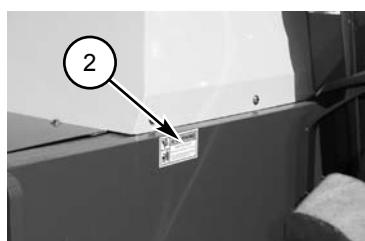
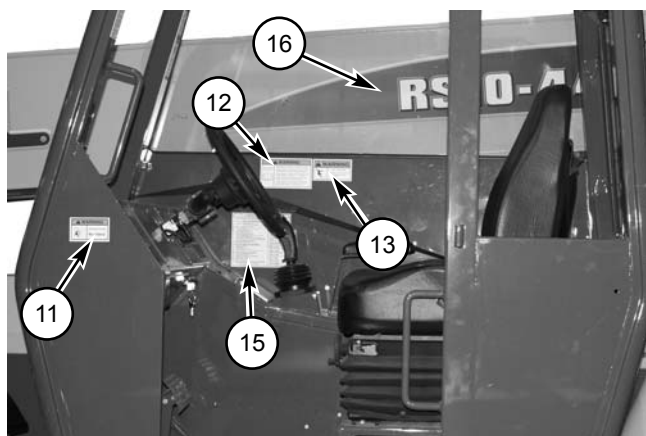
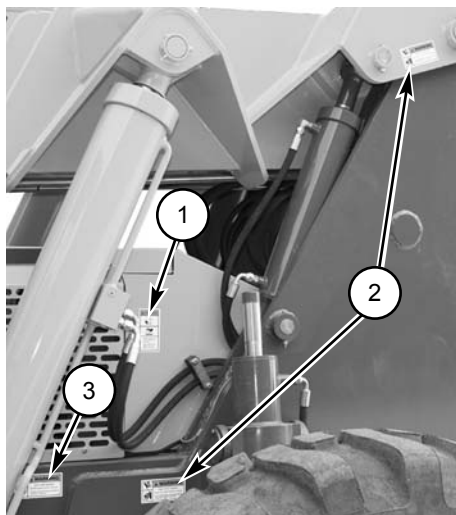
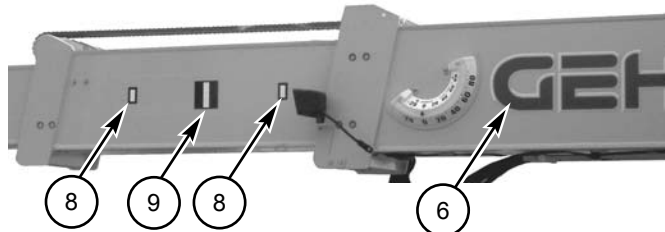
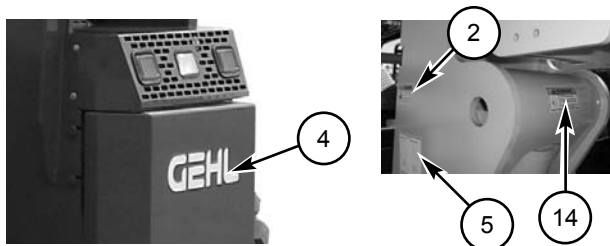
L65927	WARNING - PINCH POINT
L65348	WARNING - WINCH
L66042	WARNING - TRUSS BOOM TILT



Decals

Various Locations

RS Series



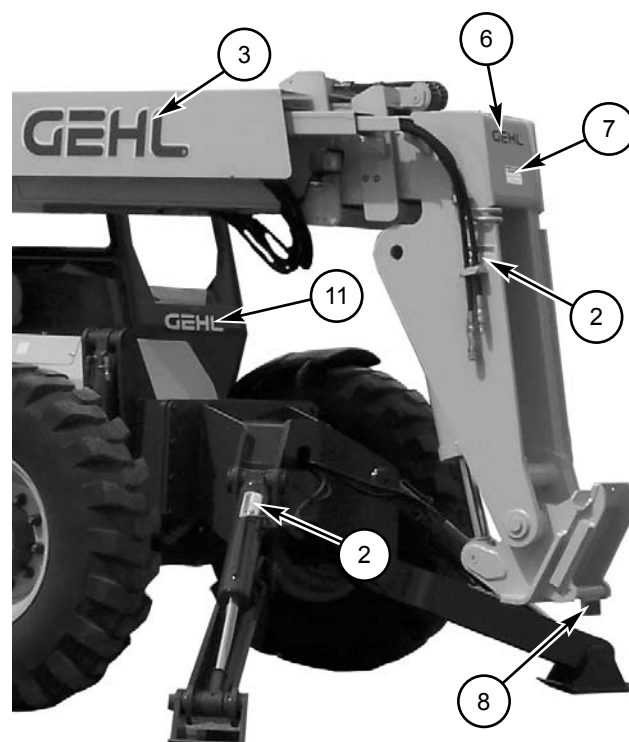
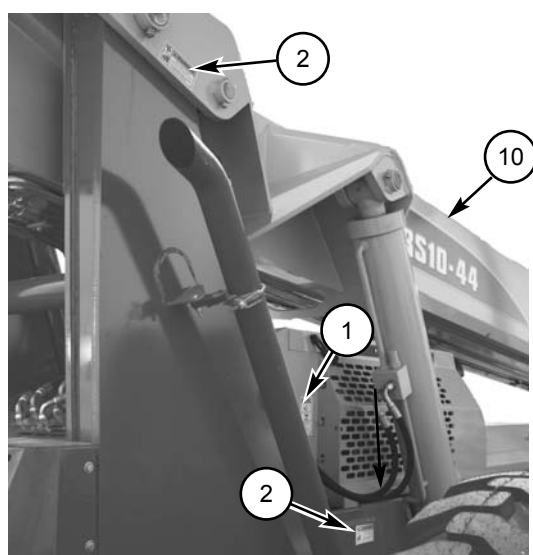
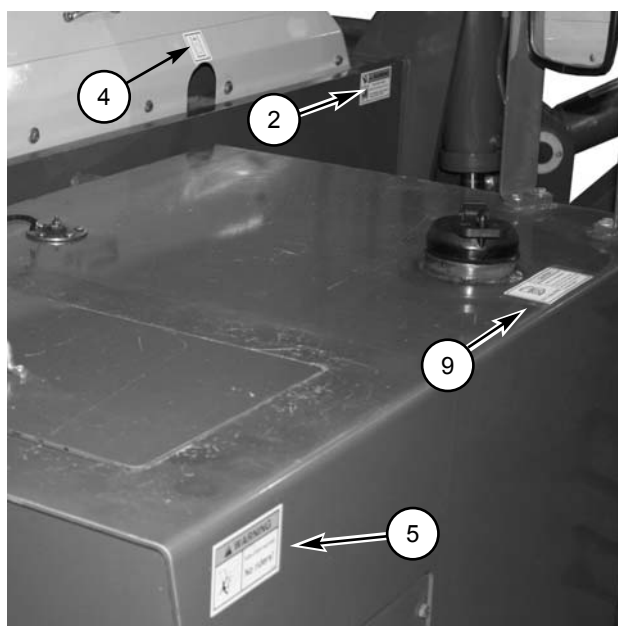
Ref. No.	Part No.	Description	Qty. Req.
01	L70305	DANGER; HANDS OUT	AR
02	L65927	WARNING; PINCH POINT	AR
03	L65933	WARNING; JUMP-START	AR
04	102027	GEHL, 5.00"	AR
05	L65937	QUICK-ATTACH DIAGRAM	1
06	102025	GEHL, 8.00"	AR
07	056859	ANTI-FREEZE	1
08	L62583	HALF-ZONE MARKER (5 pieces) . .	1
09		EXTENSION MARKERS	
	L67719	NO. "1" EXTENSION MARKER . . .	1
	L67720	NO. "2" EXTENSION MARKER . . .	1
	L67721	NO. "3" EXTENSION MARKER . . .	1
	L67722	NO. "4" EXTENSION MARKER . . .	1
	L67723	NO. "5" EXTENSION MARKER . . .	1
10	072798	COOLANT UNDER PRESSURE . . .	1

Ref. No.	Part No.	Description	Qty. Req.
11	L65932	WARNING; NO RIDERS	1
12	100359	WARNING; OPERATOR'S MAN. . .	1
13	L65928	DANGER; PERSONAL INJURY . . .	1
		(units without PWP)	
14	L65926	WARNING; CARRY LOAD LOW . . .	1
15	50380361	MAINTENANCE CHART	1
16		MODEL DESIGNATION DECAL	
	102802	RS6-42, LEFT SIDE	1
	102916	RS8-42, LEFT SIDE	1
	102804	RS8-44, LEFT SIDE	1
	210520	RS10-44, LEFT SIDE	1
	210775	RS10-55, LEFT SIDE	1
	210803	RS12-42, LEFT SIDE	1



Telescopic Handler

Decals Various Locations



Ref. No.	Part No.	Description	Qty. Req.
01	L70305	DANGER; HANDS OUT.	AR
02	L65927	WARNING; PINCH POINT.	AR
03	102025	GEHL, 8.00"	AR
04	137632	HYDRAULIC OIL FILL.	1
05	L65932	WARNING; NO RIDERS.	1
06	102026	GEHL, 2.00"	1
07	L65928	DANGER; PERSONAL INJURY . . .	1
		(units without PWP)	
08	L66613	QUICK-ATTACH UNLOCKED	1
09	50301416	DIESEL FUEL (ULSD).	1

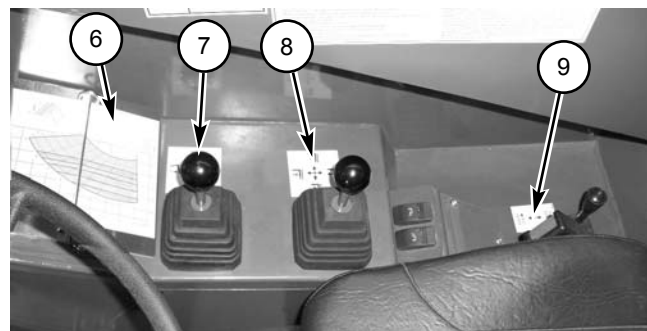
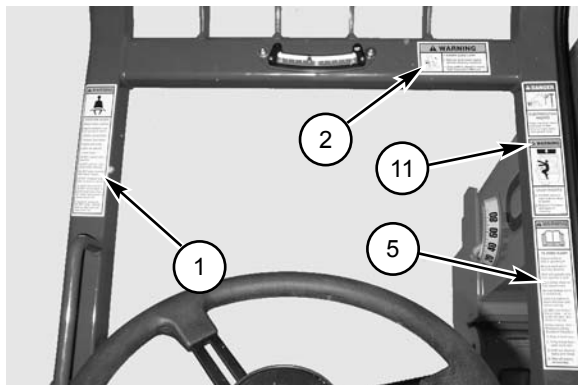
Ref. No.	Part No.	Description	Qty. Req.
10		MODEL DESIGNATION DECAL	
	102803	RS6-42, RIGHT SIDE	1
	102917	RS8-42, RIGHT SIDE	1
	102805	RS8-44, RIGHT SIDE	1
	210521	RS10-44, RIGHT SIDE	1
	210773	RS10-55, RIGHT SIDE	1
	210802	RS12-42, RIGHT SIDE	1
11	184043	GEHL, 3.75"	1



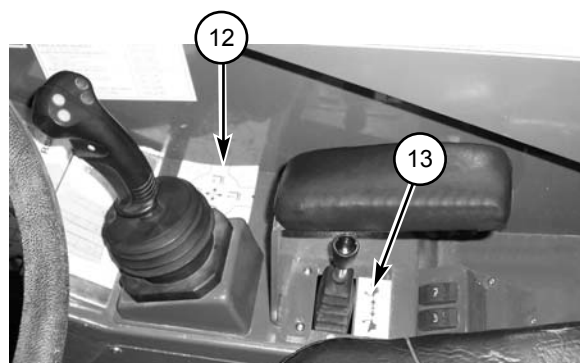
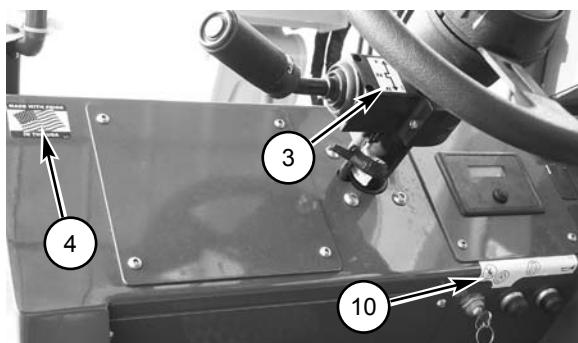
Decals

Various Locations

RS Series



Dual Joystick Control



Tri-function Joystick Control

Ref. No.	Part No.	Description	Qty. Req.
01	L70306	WARNING; TILT HAZARD/GEN. . . AR	
02	L65926	WARNING; CARRY LOAD LOW . . AR	
03	L68295	F-N-R SHIFT 1	
04	140516	MADE IN U.S.A. 1	
05	101506	WARNING; PARK BRAKE/SEAT . . 1	
06	Note a	LOAD ZONE CHARTS AR	
07 ^b	L63632	ATTACHMENT TILT/FRAME LVL. . 1	
08 ^b	L63631	BOOM CONTROL 1	
09 ^b	102718	AUX. HYD. CONTROL OPTION . . 1	
10	102717	IGNITION/START/HORN. 1	
11	L70307	DANGER; HIGH VOLTAGE/ MOVING PARTS 1	

Ref. No.	Part No.	Description	Qty. Req.
12 ^c	104215	JOYSTICK CONTROL 1	
13 ^c	L63311	FRAME LEVEL 1	

a To order load charts, please refer to the Load Zone Charts section in the Operator's Manual (913328).

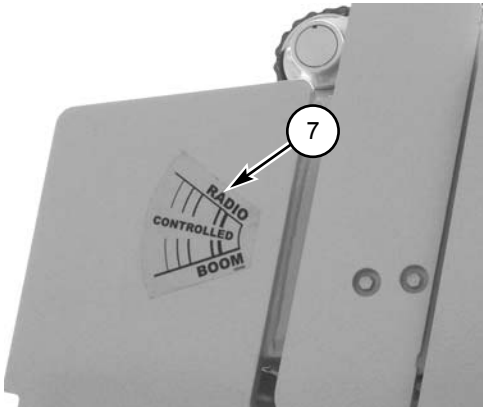
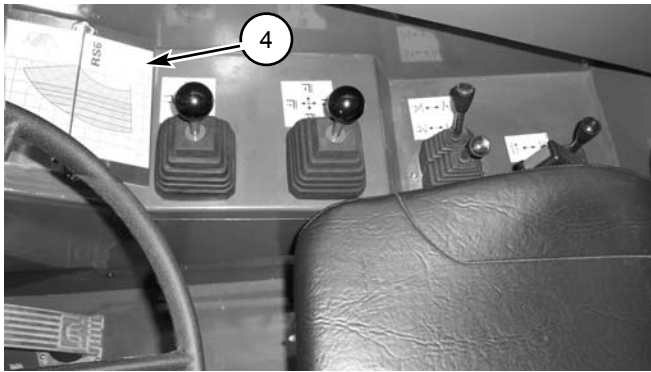
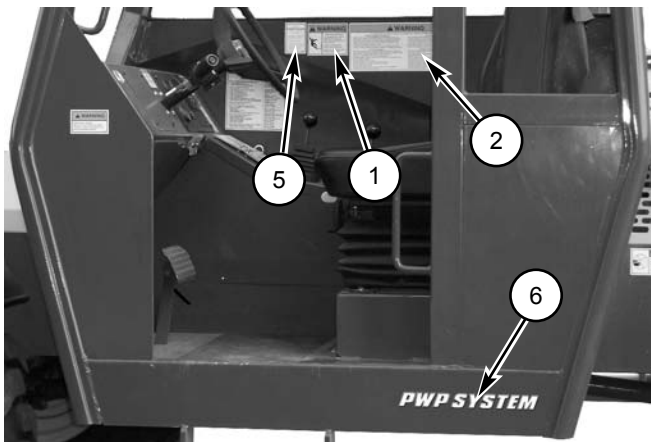
b Used exclusively on machines equipped with the dual-control joystick option (two joysticks).

c Used exclusively on machines equipped with the tri-function joystick option (one joystick).



Telescopic Handler

Decals Various Locations



DECAL LOCATIONS - PWP EQUIPPED UNITS

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L71554	WARNING; PERSONNEL LIFT . . . AR		06	103028	PWP SYSTEM.	1
02	L71555	WARNING; PLATFORM RULES . . AR		07	103453	RADIO CONTROL.	1
03	L71700	RULES, PERSONNEL LIFT AR				(Only for units with remote boom control, not included in the decal kit.)	
04	210597	PWP LOAD CHART	1				
05	102969	PWP SWITCH DECAL	1				



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054626	205	03	079026	213	25	101212	169	28	102313	213	09
054816	195	06	079026	217	07	101212	177	28	102321	215	20
054816	199	07	079026	289	07	101278	19	14	102321	217	23
054816	201	23	079029	75	20	101351	181	13	102321	225	10
054816	293	08	079038	51	26	101436	17	22	102321	227	14
054816	55	05	079209	281	07	101463	49	27	102335	152	01
054819	77	23	079209	282	04	101495	13	24	102335	183	12
054994	203	20	079209	47	—	101506	298	05	102356	207	28
054994	221	03	079769	67	03	101550	09	21	102356	265	00
054994	223	03	080313	250	05	101550	09	24	102371	181	15
054994	225	03	080319	249	05	101567	49	02	102408	58	01
054994	231	03	080319	251	05	101624	280	02	102420	267	01
054994	281	09	080319	252	06	101624	285	26	102423	45	12
054994	289	22	080319	253	04	101625	280	02	102434	209	02
054994	291	22	081374	289	17	101625	285	26	102434	221	02
055005	183	06	081379	49	21	101667	43	05	102434	223	02
055005	185	01	084175	69	24	101712	23	04	102434	225	02
055005	197	12	087850	75	21	101717	13	11	102434	227	02
055005	203	08	088442	125	12	101719	17	19	102434	229	02
055005	207	08	088442	127	10	101727	11	13	102434	231	02
056089	197	11	088442	293	26	101746	17	32	102434	273	00
056089	207	09	089001	71	28	101792	17	20	102435	209	01
056859	296	07	089069	19	17	101877	20	13	102435	211	02
058610	195	11	089070	19	17	101877	21	02	102445	195	03
058610	207	13	089099	293	13	101877	33	10	102491	09	28
061946	71	22	089888	31	03	101879	51	24	102498	203	05
061946	75	07	090666	121	05	101880	205	01	102498	254	01
062023	71	17	090666	123	05	101880	256	01	102516	183	25
065415	187	24	090666	27	22	101880	33	09	102516	185	12
065415	189	16	090666	29	09	101954	49	22	102517	183	24
067761	187	25	090666	51	31	101960	49	23	102517	185	13
067761	189	15	090666	71	12	101961	49	22	102529	39	08
067823	63	16	090666	75	10	101962	49	22	102540	183	15
067847	17	14	091039	125	01	101963	49	23	102541	183	07
067847	71	08	091039	127	03	101999	285	18	102543	183	01
068938	203	22	091039	211	21	102025	296	06	102543	243	00
068938	223	06	091039	213	24	102025	297	03	102544	183	01
068938	227	06	091039	215	07	102026	297	06	102544	243	00
068938	231	06	091039	217	25	102027	296	04	102566	53	08
068938	235	05	091039	223	05	102122	121	23	102569	121	08
068938	237	05	091039	227	05	102123	121	23	102569	123	08
070648	31	13	091039	231	05	102173	07	01	102570	121	08
071043	63	30	091039	289	21	102211	77	30	102570	123	08
072580	187	23	095601	205	02	102212	77	28	102572	20	—
072580	189	17	095601	205	19	102245	159	01	102572	23	00
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072587	203	25	100011	125	11	102245	161	01	102575	129	06
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072602	195	12	100071	35	10	102246	159	01	102576	129	07
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072798	296	10	100102	23	10	102246	161	01	102577	129	10
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072806	221	04	100119	177	16	102247	201	04	102579	131	03
072806	223	04	100119	179	01	102247	239	00	102580	131	03
072806	225	04	100359	296	12	102262	71	25	102581	133	02
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072806	287	20	100369	281	15	102282	157	01	102581	147	02
072916	63	25	100369	285	24	102283	163	12	102582	133	03
075235	77	04	100547	291	27	102283	179	01	102582	133	03
076002	170	13	100631	287	19	102285	154	01	102583	133	50
076589	71	10	100963	293	10	102285	157	01	102583	143	57
076589	75	09	100990	285	27	102286	163	12	102583	147	57
076880	125	07	101003	285	16	102286	179	01	102584	133	04
076880	127	08	101028	169	05	102313	203	19	102584	133	04



Telescopic Handler

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210352	166	03	210723	55	25	230210	29	04	50220043	141	28
210368	47	23	210727	55	13	230-21555	189	02	50220043	145	28
210375	47	24	210736	279	20	230-21555	193	02	50220044	141	28
210385	191	09	210759	169	09	230-32195	41	06	50220044	145	28
210385	207	18	210760	169	08	230-32364	269	03	50220045	141	27
210397	77	01	210761	53	24	230-32364	41	03	50220045	145	27
210403	35	14	210764	45	12	240197	260	04	50220046	141	17
210404	35	16	210765	31	12	240202	260	03	50220048	145	16
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50220057	133	32	50220665	282	01	50380310	197	07	650315	31	15
50220061	61	07	50220751	133	11	50380310	197	08	650387	45	04
50220068	136	15	50280198	269	06	50380310	197	09	650387	47	27
50220068	137	05	50300066	24	07	50380310	197	10	650387	49	08
50220068	148	07	50300066	25	12	50380310	207	10	650426	60	08
50220068	149	16	50300170	75	01	50380310	207	11	650449	51	05
50220160	71	06	50300238	69	01	50380310	207	25	650450	27	15
50220161	71	05	50300240	69	19	50380310	207	26	650453	203	03
50220162	71	04	50300778	63	34	50380311	71	19	650481	49	37
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50220187	63	13	50380024	75	14	50380318	201	29	650485	179	03
50220188	07	09	50380026	47	05	50380318	262	07	650486	166	04
50220188	63	13	50380026	71	13	50380338	205	25	650486	181	12
50220188	65	00	50380028	71	16	50380338	257	06	650486	41	11
50220189	21	09	50380059	69	30	50380361	296	15	650486	47	02
50220190	69	06	50380063	69	16	50380387	77	24	650486	53	01
50220191	69	08	50380064	69	31	50380423	27	07	650486	73	04
50220192	69	17	50380071	75	11	50380423	65	01	650487	199	12
50220194	295	00	50380077	69	31	50380424	65	06	650487	201	12
50220195	295	00	50380089	51	12	50380445	27	09	650487	35	11
50220196	295	00	50380094	63	31	50380446	27	11	650487	47	22
50220197	295	00	50380122	47	14	50380450	51	42	650488	154	03
50220198	295	00	50380126	47	16	50380458	27	04	650488	155	06
50220199	295	00	50380141	20	—	50380459	27	10	650488	169	15
50220200	295	00	50380143	47	25	50380460	27	06	650488	170	17
50220201	295	00	50380145	51	07	50380463	20	—	650488	171	14
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50220204	295	00	50380149	63	—	50380500	69	21	650488	51	08
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50220248	131	02	50380239	63	05	50380576	13	02	650490	173	08
50220249	131	20	50380243	19	15	50380577	13	01	650490	177	12
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50220252	133	03	50380261	63	19	50380583	13	04	650490	29	08
50220253	133	04	50380272	07	06	50380585	13	09	650490	35	13
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50220305	289	03	50380281	45	13	50380847	24	10	650493	287	33
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650863	51	44	654030	293	25	L47265	279	13	L500409	93	24
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651151	43	02	654046	17	22	L48805	183	05	L500411	93	02
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651404	63	09	656013	77	21	L49618	170	11	L500414	93	20
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L500496	137	03	L500690	277	08	L50202	23	11	L50835	287	12
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L50051	63	08	L500747	23	00	L50294	280	04	L510007	170	18
L500517	133	38	L500748	23	00	L50294	285	25	L510007	173	02
L500518	133	39	L500753	245	03	L50305	63	15	L510007	177	06
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L530004	167	06	L62734	155	08	L63715	287	24	L65097	181	03
L530004	39	27	L62734	169	13	L63716	283	11	L65098	181	04
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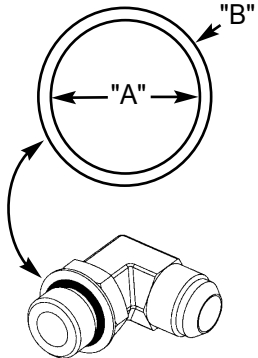
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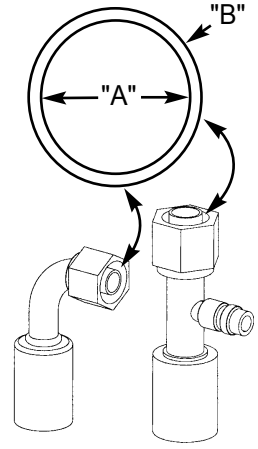
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O-RING TABLES

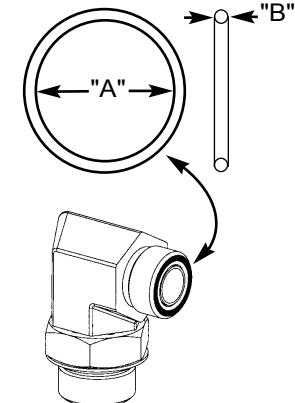
O-Ring Table — Male Boss Fittings

	Fitting Thread Size	Diameter "A"	Diameter "B"	Part Number
	9/16 - 18	0.468	0.078	055897
	3/4 - 16	0.644	0.087	055896
	7/8 - 14	0.755	0.097	055898
	1-1/16 - 12	0.924	0.116	048953
	1-5/16 - 12	1.171	0.116	058674
	1-5/8 - 12	1.475	0.118	077970
	A/C #6	0.312	0.453	138777
	A/C #8	0.437	0.578	138778
	A/C #10	0.562	0.703	138779

O-Ring Table — Air Conditioning Fittings

	A/C Fitting	Diameter "A"	Diameter "B"	Part Number
	A/C #6	0.312	0.453	138777
	A/C #8	0.437	0.578	138778
	A/C #10	0.562	0.703	138779

O-Ring Table — Face Seal Fittings

	Fitting Thread Size	Tube O.D.	Diameter "A"	Thickness "B"	Part Number
	9/16 - 18	1/4	0.301	0.070	50300165
	11/16 - 16	3/8	0.364	0.070	50300166
	13/16 - 16	1/2	0.489	0.070	50300167
	1-14 - 14	5/8	0.614	0.070	135124
	1-13/16 - 12	3/4	0.739	0.070	137205
	1-7/16 - 12	1	0.926	0.070	50300168



REFERENCE ADAPTER (FITTINGS) TORQUE GUIDE

Use these torque values when tightening hydraulic, fuel, or coolant adapters (fittings).

SAE "O-Ring" Boss (Steel) Adapters					
Size		Pounds-Force Foot (lb.-ft.)		Newton Meter (N-m)	
Dash	Fractional	Minimum	Maximum	Minimum	Maximum
-3	3/16	8	10	11	13
-4	1/4	14	16	19	21
-5	5/16	18	20	24	27
-6	3/8	24	26	32	35
-8	1/2	50	60	68	81
-10	5/8	72	80	97	108
-12	3/4	125	135	170	183
-14	7/8	160	180	216	244
-16	1	200	220	271	298
-20	1-1/4	210	280	285	380
-24	1-1/2	270	360	366	488

JIC 37° and 45° (Machined or Flared) Adapters					
Size		Pounds-Force Foot (lb.-ft.)		Newton Meter (N-m)	
Dash	Fractional	Minimum	Maximum	Minimum	Maximum
-4	1/4	10	11	13	15
-5	5/16	13	15	17	20
-6	3/8	17	19	23	26
-8	1/2	34	38	46	51
-10	5/8	50	56	68	78
-12	3/4	70	78	95	106
-16	1	94	104	127	141
-20	1-1/4	124	138	168	187
-24	1-1/2	156	173	211	234
-32	2	219	243	297	329



REFERENCE

METRIC BOLT TORQUE GUIDE

Use these torque values when tightening hardware—excluding: lock nuts, thread-forming, self-tapping, and metal screws—unless otherwise specified.

Metric Coarse-Pitch Thread—(DRY)	All torque values are in Foot-Pounds and Newton Meters (Nm).				
	DIN 912, DIN 931, DIN 933, etc...			DIN 7984	
	8.8	10.9	12.9	8.8	10.9
M5	4.1 (5.5)	6 (8)	7 (10)	4 (5)	5 (7)
M6	7 (10)	10 (14)	13 (17)	6.3 (8.5)	9 (12)
M8	18 (25)	26 (35)	31 (42)	15 (20)	22 (30)
M10	33 (45)	48 (65)	59 (80)	30 (40)	44 (59)
M12	64 (87)	81 (110)	108 (147)	51 (69)	74 (100)
M14	100 (135)	133 (180)	170 (230)	81 (110)	118 (160)
M16	155 (210)	203 (275)	258 (350)	125 (170)	184 (250)
M18	207 (280)	302 (410)	354 (480)	181 (245)	254 (345)
M20	302 (410)	420 (570)	509 (690)	251 (340)	361 (490)
M22	406 (550)	575 (780)	686 (930)	339 (460)	487 (660)
M24	524 (710)	738 (1000)	878 (1190)	435 (590)	620 (840)
M27	767 (1040)	1092 (1480)	1305 (1770)	642 (870)	922 (1250)
M30	1047 (1420)	1482 (2010)	1770 (2400)	885 (1200)	1254 (1700)

Metric Coarse-Pitch Thread—(OILED)	All torque values are in Foot-Pounds and Newton Meters (Nm).				
	DIN 912, DIN 931, DIN 933, etc...				
	8.8	10.9	12.9		
M6-1	6 (8)	8 (11)	10 (14)		
M8-1.25	14 (19)	20 (27)	24 (33)		
M10-1.5	28 (38)	39 (53)	47 (63)		
M12-1.75	48 (65)	68 (91)	82 (111)		
M14-2	77 (103)	108 (146)	131 (177)		
M16-2	118 (160)	166 (224)	200 (271)		

Metric Fine-Pitch Thread—(DRY)	All torque values are in Foot-Pounds and Newton Meters (Nm).				
	DIN 912, DIN 931, DIN 933, etc...			DIN 7984	
	8.8	10.9	12.9	8.8	10.9
M8X1.0	18 (25)	27 (37)	32 (43)	16 (22)	24 (32)
M10X1.0	37 (50)	55 (75)	65 (88)	32 (43)	48 (65)
M10X1.25	36 (49)	52 (71)	61 (83)	31 (42)	46 (62)
M12X1.25	64 (87)	96 (130)	111 (150)	55 (75)	81 (110)
M12X1.5	61 (83)	92 (125)	107 (145)	53 (72)	77 (105)
M14X1.5	100 (135)	148 (200)	173 (235)	89 (120)	129 (175)
M16X1.5	155 (210)	229 (310)	266 (360)	133 (180)	195 (265)
M18X1.5	232 (315)	332 (450)	391 (530)	199 (270)	284 (385)
M20X1.5	325 (440)	465 (630)	538 (730)	277 (375)	391 (530)
M22X1.5	435 (590)	620 (840)	723 (980)	369 (500)	524 (710)
M24X2.0	546 (740)	789 (1070)	922 (1250)	465 (630)	664 (900)
M27X2.0	811 (1100)	1143 (1550)	1328 (1800)	679 (920)	959 (1300)
M30X2.0	1106 (1500)	1586 (2150)	1844 (2500)	959 (1300)	1364 (1850)



REFERENCE

SAE BOLT TORQUE GUIDE

Use these torque values when tightening hardware—excluding: lock nuts, thread-forming, self-tapping, and metal screws—unless otherwise specified.

NOTE: All torque values are in foot-pounds (lb.-ft.), except those marked with asterisks (*), which are in inch-pounds (lb.-in.). To convert lb.-ft. to Newton Meter (Nm)—metric—torque values, multiply the lb.-ft. value by 1.355, or for inch pounds, multiply the lb.-in. value by 0.113.

Unified National Thread	Grade 2 		Grade 5 		Grade 8 	
	Dry	Oiled	Dry	Oiled	Dry	Oiled
8-32	19*	14*	30*	22*	41*	31*
8-36	20*	15*	31*	23*	43*	32*
10-24	27*	21*	43*	32*	60*	45*
10-32	31*	23*	49*	36*	68*	51*
1/4-20	66*	50*	9	75*	12	9
1/4-28	76*	56*	10	86*	14	10
5/16-18	11	9	17	13	25	18
5/16/24	12	9	19	14	25	20
3/8-16	20	15	30	23	45	35
3/8-24	23	17	35	25	50	35
7/16-14	32	24	50	35	70	55
7/16-20	36	27	55	40	80	60
1/2-13	35	35	75	55	110	80
1/2-20	40	40	90	65	120	90
9/16-12	55	55	110	80	150	110
9/16-18	60	60	120	90	170	130
5/8-11	75	75	150	110	220	170
5/8-18	85	85	180	130	240	180
3/4-10	130	130	260	200	380	280
3/4-16	150	150	300	220	420	320
7/8-9	125	125	430	320	600	460
7/8-14	140	140	470	630	660	500
1-8	190	190	640	480	900	680
1-14	210	210	710	530	1000	740

* Value shown is in pound-force inch (lb.-in.)—inch pounds.



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