



MT 5519

Telescopic Handler

Beginning with S/N 25141

Parts Manual

Catalog 50960057 Rev. B

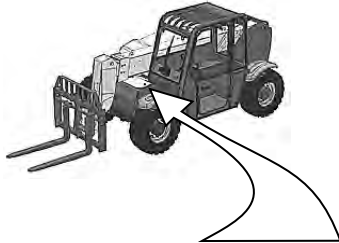
When ordering service parts, specify the correct part number, full description, quantity required, the machine model number, and serial number. For your safety, and continued proper operation, use only genuine Manitou service parts.

"Right" and "left" are determined from a position sitting on the seat inside the cab and facing forward.

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

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

SERIAL NUMBER



Model	Engine	Unit Number			
MT5519	Y	E	00	00000	
Year (E=13, F=14 etc.)			Month		

Serial number breaks are indicated as follows:

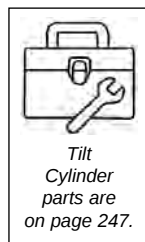
- (SN 999 and before) - indicates serial numbers up to and including 999.
- (SN 1000 - 2000) - indicates serial numbers from 1000 to 2000.
- (SN 999 and up) - indicates serial numbers including 999 and after.

NOTE: When ordering parts, be sure to identify the last five digits of the machine's serial number.

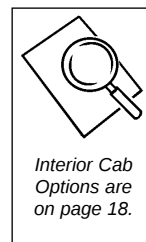
HYDRAULIC AND ELECTRICAL SCHEMATICS

Hydraulic and electrical schematics can be found in the Operator's and Service Manuals for this machine; please refer to the information at the right for the correct manual.

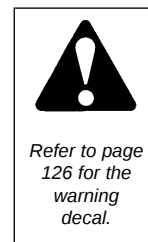
The following icons shown on various pages provide important information or identify where additional information can be found.



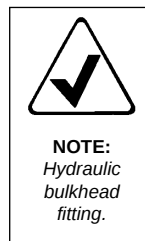
Identifies where additional pages for component parts, seals, and kits can be found.



Identifies where additional information can be found.



Alerts and directs user to investigate more information.



Identifies missing, hidden parts, or adds informational comments.



Seal Kit



Repair Kit



Represents a port designation on hydraulic components (e.g., valves, cylinders, etc.)

SOME ABBREVIATIONS LISTED IN THIS MANUAL

ASSY	Assembly
AR	As Required
CFPD	Contact Factory Parts Department
EU	European Union (standards)
HYD	Hydraulic
IN	Inch(es)
INC/INCL	Included or includes
LN	Lock Nut
MM/mm	Millimeter
NA	Not Applicable or Not Available
NPT	National Pipe Thread
NSS	Not Sold Separately
ORB	O-Ring Boss
REF	Reference
SN	Serial Number
W/	With
W/O	Without

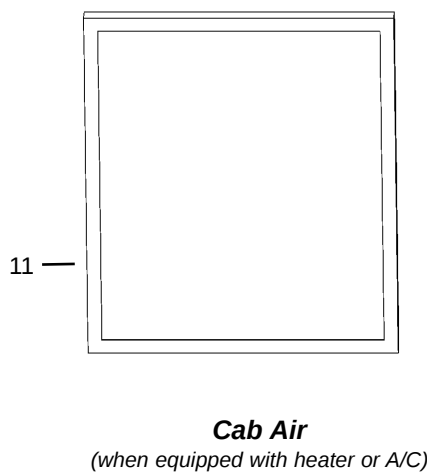
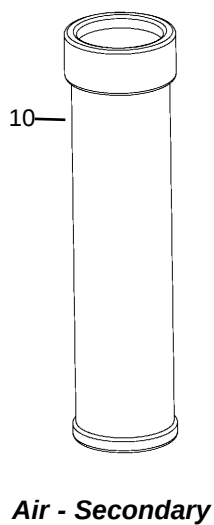
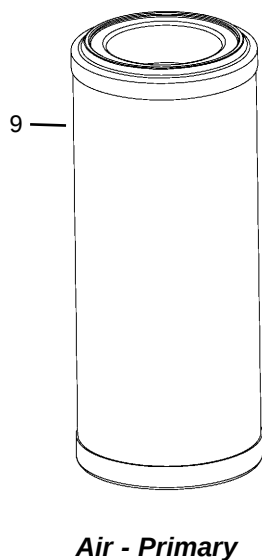
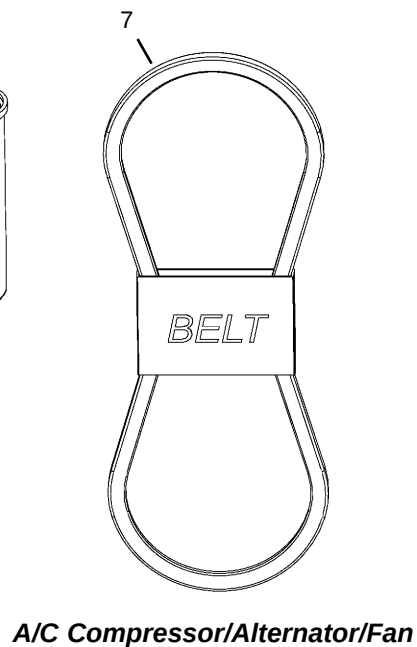
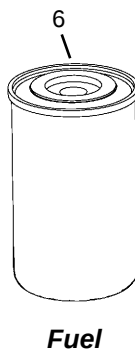
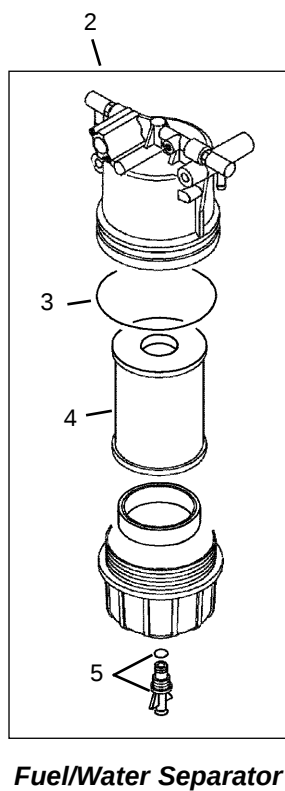
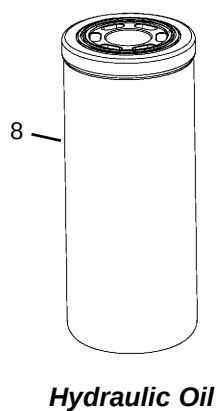
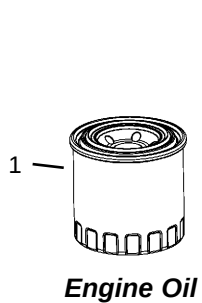
MANUALS

Operator's Manual: P/N 50960067
Engine Parts Manual: P/N 50960075

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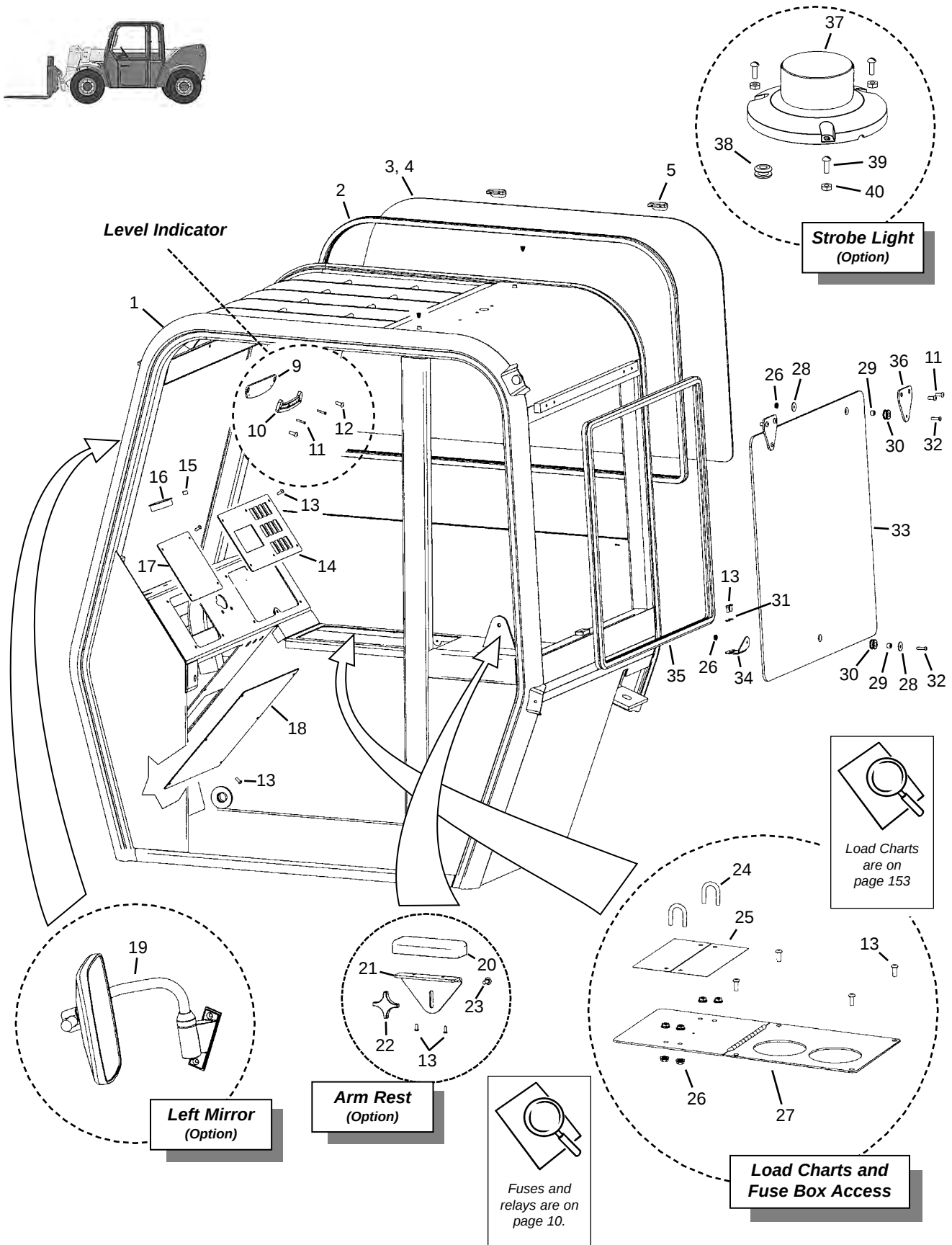
Filters and Belts

All

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	195568	FILTER, ENGINE OIL	1	07		V-BELT	1
02	50351686	FUEL/WATER SEPARATOR ASY... 1 (includes all items shown in box)			210861	FAN/ALTERNATOR	
					210789	A/C COMPRESSOR (option)	
03	50250362	O-RING	1	08	074830	FILTER, HYDRAULIC OIL	1
04	50352550	FILTER, FUEL/WATER SEP.	1	09	104047	FILTER, AIR (primary)	1
05	203823	DRAIN PLUG w O-RING	1	10	104046	FILTER, AIR (secondary)	1
06	50352551	FILTER, FUEL (on firewall)	1	11	211146	FILTER, CAB AIR (option)	1



NOTE: Additional engine related components are shown in the engine parts manual 50960075.



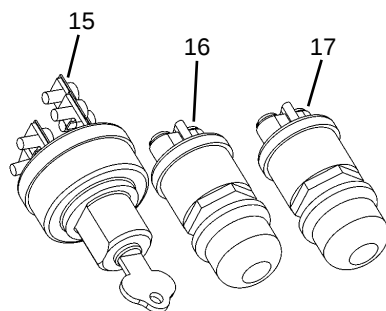
Cab
Cab

50960057/BP1014

Cab

Instrument Panel and Switches

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IGNITION START HORN

*Ignition and push button
switches are located
below dash panel*

Instrument Panel and Switches

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	50380306	PANEL, DASH 1 <i>(panel only; no switches or displays)</i>		12	L71076	SWITCH, WIPER/WASHER 1 <i>(top window)</i>	
02	50305161	DISPLAY, CAN & INSTRUMENTS . 1		13	L71077	SWITCH, HAZARD LIGHTS 1	
03	L71075	SWITCH, STEER MODE. 1		14	L71083	SWITCH, STROBE 1	
05	L71088	HOLE PLUG, SWITCH. AR		15	089069	SWITCH, IGNITION w/KEY. 1	
04	104203	SWITCH, TWO SPEED. 1			089070	KEY ONLY (2 keys) 1	
06	L71074	SWITCH, PARK BRAKE 1		16	L41848	SWITCH, PUSH-BUTTON <i>(starter)</i> . 1	
07	50380243	INDICATOR, DPF STATUS 1		17	L41848	SWITCH, PUSH-BUTTON <i>(horn)</i> . . 1	
08	50380314	SWITCH, DPF CONTROL. 1					
09	L71082	SWITCH, LIGHTS 1					
10	L71076	SWITCH, WIPER/WASHER 1 <i>(front window)</i>					
11	L71084	SWITCH, TURN SIGNALS 1					

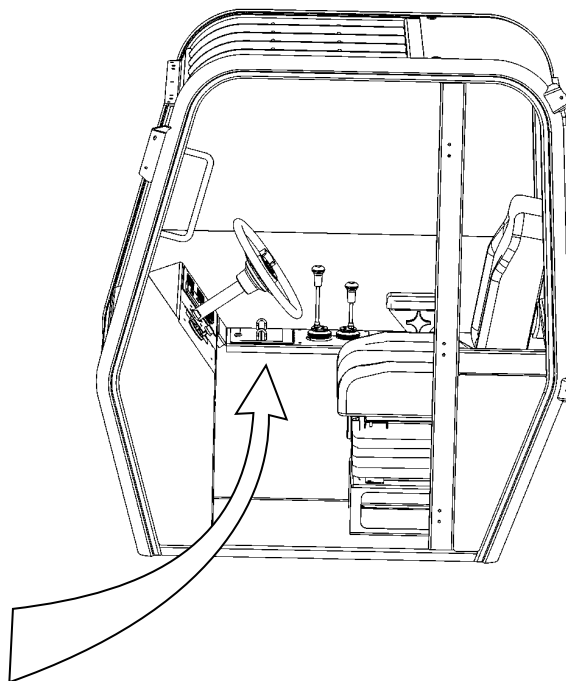
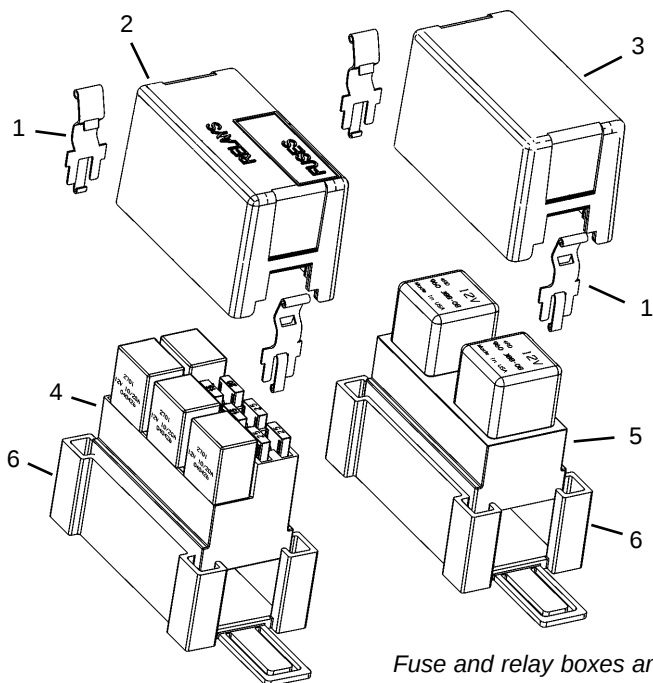
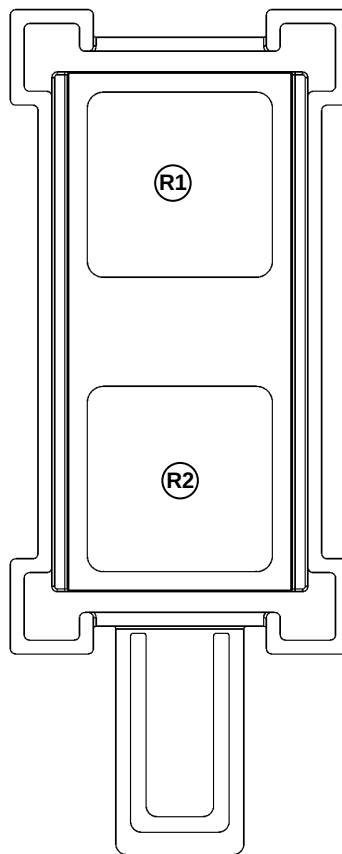
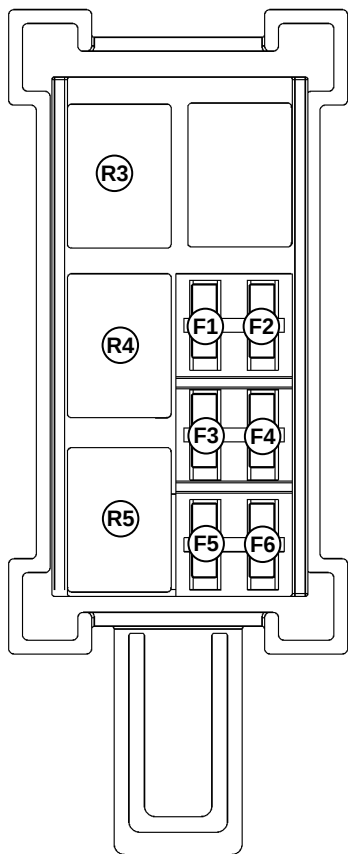
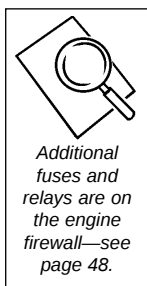


NOTE: Switches shown in the Illustration or listed on this page are for reference purposes only—your machine may be configured differently than shown here.

Cab

Fuses, Relays, and Wire Harnesses

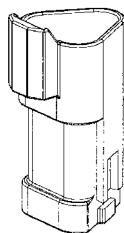
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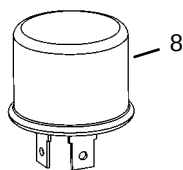
Fuse and relay boxes are located under the load charts

Fuses, Relays, and Wire Harnesses

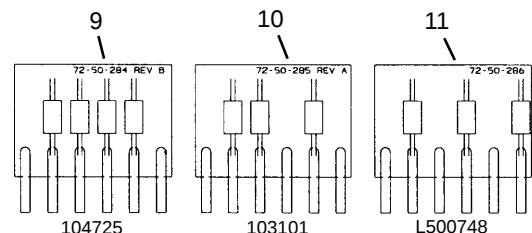
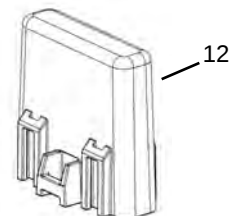
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
-- FUSES AND RELAYS--							
F1	103099	FUSE, 15A (<i>Battery Circuit</i>) 1 (<i>Ignition switch, horn, brake light, and park light</i>)	1	01 ^a	50380753	LATCH, FUSE AND RELAY BOX . . . 4	4
F2	104769	FUSE, 20A (<i>Ignition Circuit</i>) 1 (<i>Transmission, park brake, steer select, and injector</i>)	1	02 ^a	50380751	COVER, FUSE BOX 1	1
F3	103099	FUSE, 15A (<i>Ignition Circuit</i>) 1 (<i>Lights, Inching Valve</i>)	1	03 ^a	272648	COVER, RELAY BOX 1	1
F4	103221	FUSE, 25A (<i>Ignition Circuit</i>) 1 (<i>Heater, Gauges</i>)	1	04 ^a	NSS	FUSE BLOCK (wo/fuses or relays) . 1	1
F5	103221	FUSE, 25A (<i>Ignition Circuit</i>) 1 (<i>Top Wiper</i>)	1	05 ^a	NSS	RELAY BLOCK (wo/relays) 1	1
F6	103221	FUSE, 25A (<i>Ignition Circuit</i>) 1 (<i>Front Wiper</i>)	1	06 ^a	NSS	MOUNT, FUSE/RELAY BLOCK . . . 2	2
R1	L70075	CHANGE-OVER RELAY, 20A 1 (<i>Ignition</i>)	1	07	106001	CAN/TERMINATE RECEPTACLE . . 1	1
R2	L70075	CHANGE-OVER RELAY, 20A 1 (<i>Park Brake</i>)	1	08	L63894	TURN SIGNAL FLASHER 1	1
R3	103100	RELAY, 20A (<i>Lights</i>) 1	1	09 ^b	104725	DIODE PACK 1 (<i>Drive train controls — located under the front chassis cover, part of the frame harness</i>)	1
R4	103100	RELAY, 20A (<i>Top Wiper</i>) 1	1	10 ^c	103101	DIODE PACK 1 (<i>Brake Light/Turn Signal Circuit— located under the dash near the switches, part of the light harness</i>)	1
R5	103100	RELAY, 20A (<i>Front Wiper</i>) 1	1	11 ^c	L500748	DIODE PACK 1 (<i>Brake Light/Turn Signal Circuit— located under the dash near the switches, part of the light harness</i>)	1
-- WIRE HARNESSES--							
(not shown)							
--	104743	WIRE HARNESS, BOOM LIGHTS . 1	1	12	L500747	CLEAR COVER, DIODE PACK . . AR	AR
--	50380582	WIRE HARNESS, CANOPY 1	1	^a The fuse box, relay box, covers, latches, fuses, and relays (items 1-6) are included with the canopy wire harness PN 50380582; items 4-6 are not sold separately.			
--	50380580	WIRE HARNESS, ENGINE 1	1	^b Diode pack is included with frame wire harness PN 50380581.			
--	103980	WIRE HARNESS, FNR SHIFTER . . 1	1	^c Diode pack PN 103101 and PN L500748 are included with the optional light package wire harness PN 104742.			
--	50380581	WIRE HARNESS, FRAME 1	1				
--	103180	WIRE HARNESS, FRONT WIPER . 1	1				
--	104742	WIRE HARNESS, LIGHTING 1	1				
--	104950	WIRE HARNESS, STROBE 1	1				
--	103179	WIRE HARNESS, TOP WIPER . . . 1	1				
--	102925	WIRE HARNESS, WASHER 1	1				



CAN-Terminate
(located next to the electrical components mount)

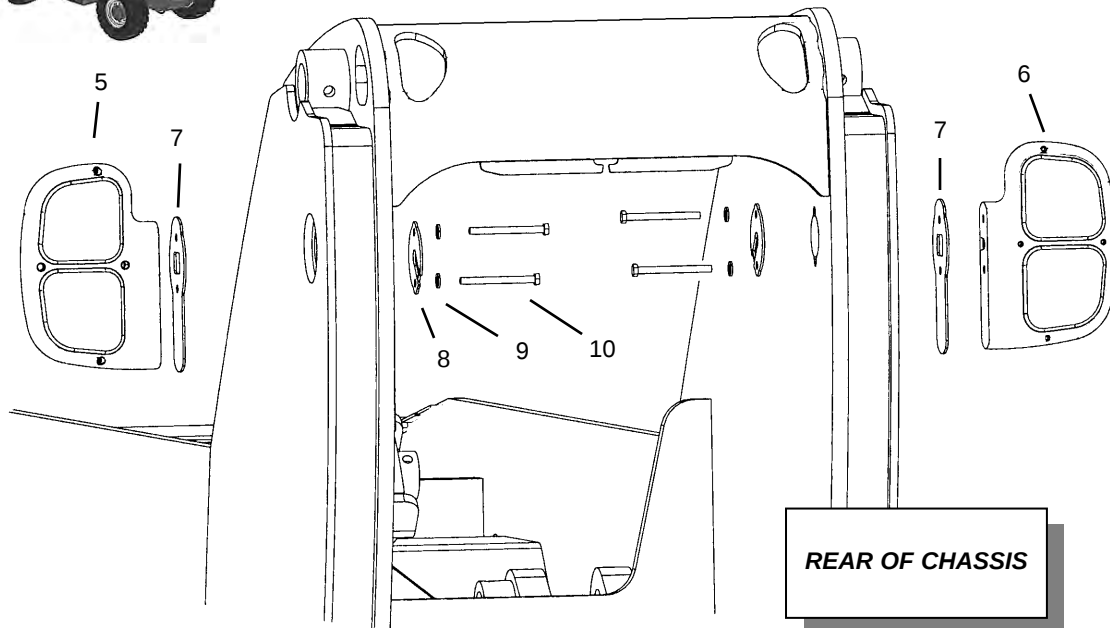
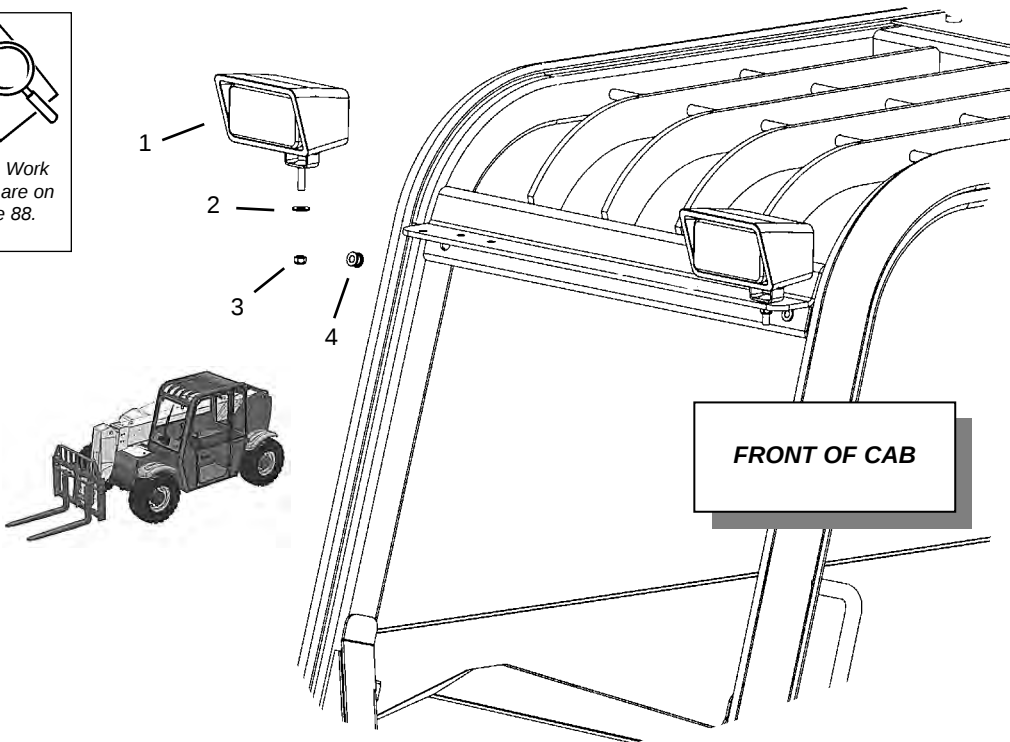
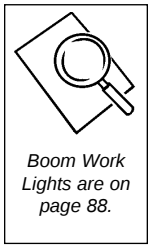


Turn Signal Flasher
(Located behind the front dash and switch panel.)



Diode Packs

Front and Rear Lights Option

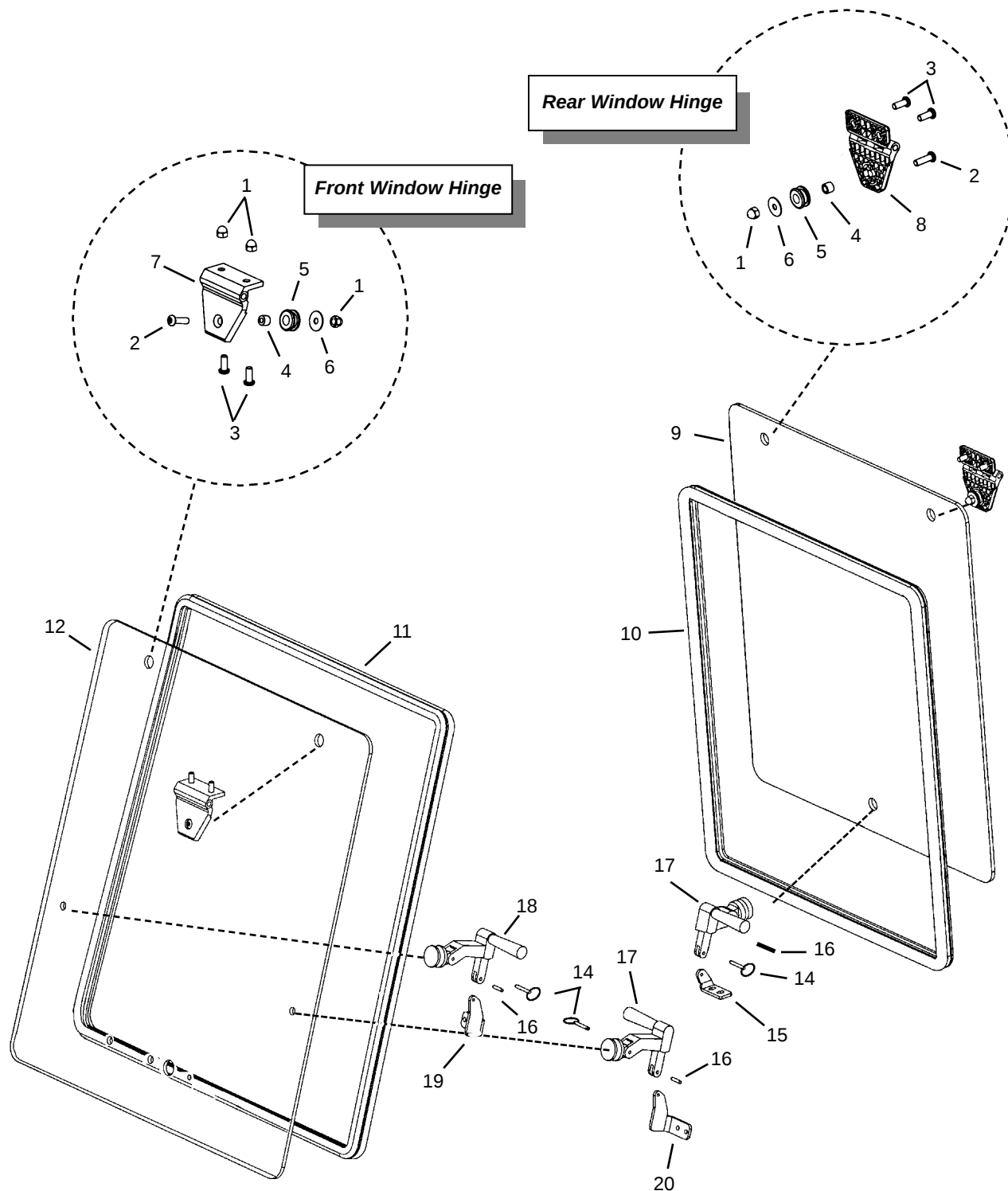


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Front and Rear Lights Option

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	L70039	HEAD LIGHT	2	10 ^a	651681	M8-1.25X100 C8.8 BOLT	4
02	L50151	1/2" FLAT WASHER	2				
03	090666	3/8"-16 WHIZ LOCK NUT	2				
04	101712	GROMMET, 5/8"	AR	--	104742	-- ITEMS NOT SHOWN -- HARNESS, LIGHT PACKAGE	1
05 ^a	104741	TAIL LIGHT, LH	1			(Dash to rear lights: includes two diode packs—refer to previous page for diode information.)	
06 ^a	104719	TAIL LIGHT, RH	1				
07 ^a	104410	TAIL LIGHT, MOUNT	2				
08 ^a	104411	TAIL LIGHT, RETAINER	2	--	L70241	WIRE HARNESS, HEAD LIGHT . . .	2
09 ^a	654026	3/8" LOCK WASHER	4	--	103192	GROMMET 13/16"	1

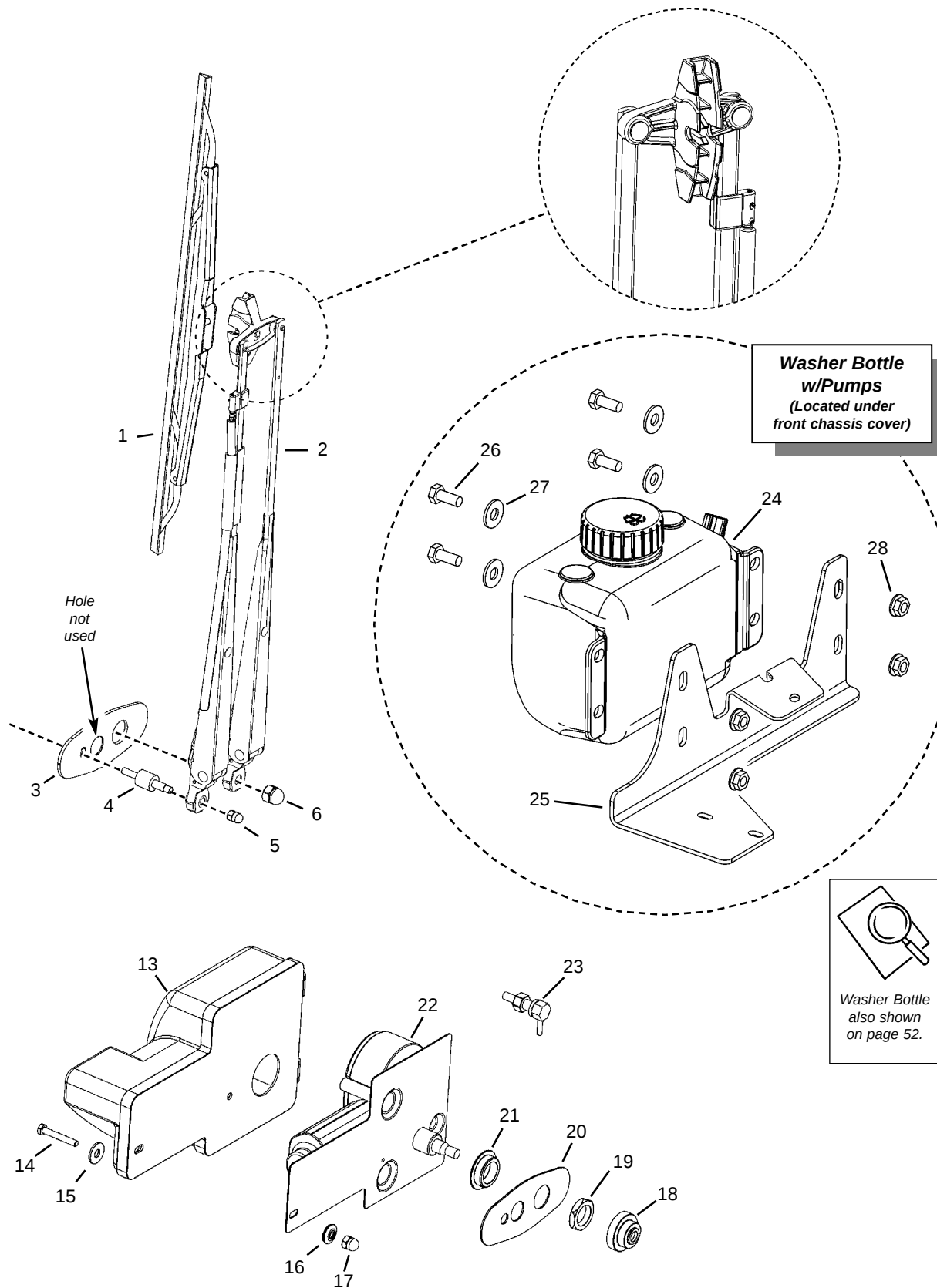


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Front and Rear Window - Enclosed Cab Option

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	L500038	5/16"-18 ACORN NUT	AR	15 ^a	104846	MOUNT, REAR-WINDOW STAY . . .	1
02	651639	5/16"-18X1" BUTTON HD BOLT . . .	4	16	L500019	PIN, ROLL - 3/16"x1/2"	3
03	651640	5/16"-18X3/4" BUTTON HD BOLT .	8	17	L500028	HOLD OPEN, L-STYLE.	2
04	L500042	BUSHING, STEEL	4	18	L500027	HOLD OPEN, L-STYLE.	1
05	L500021	GROMMET, 1/2"IDX1/4"GROOVE .	6	19 ^a	103029	MOUNT, WIND. HOLD OPEN (RH). 1	
06	651641	5/16" FLAT WASHER (BLACK). . . .	4	20 ^a	102722	MOUNT, WIND. HOLD OPEN (LH). 1	
07	L500111	HINGE, FRONT WINDOW	2				
08	L500024	HINGE, PLASTIC (<i>rear window</i>) . .	1				
09	103023	GLASS, REAR.	1	a	<i>Use the parts listed below to fasten mount to frame:</i>		
10	103024	BULB SEAL, REAR GLASS	1	--	650863	1/4" FLAT WASHER	AR
11	103020	BULB SEAL, FRONT GLASS	1	--	654002	1/4" LOCK WASHER.	AR
12	103019	GLASS, FRONT	1	--	L50202	1/4"-20X5/8" BUTTON HD BOLT. AR	
14	L500025	PIN, QUICK DETACH.	AR				

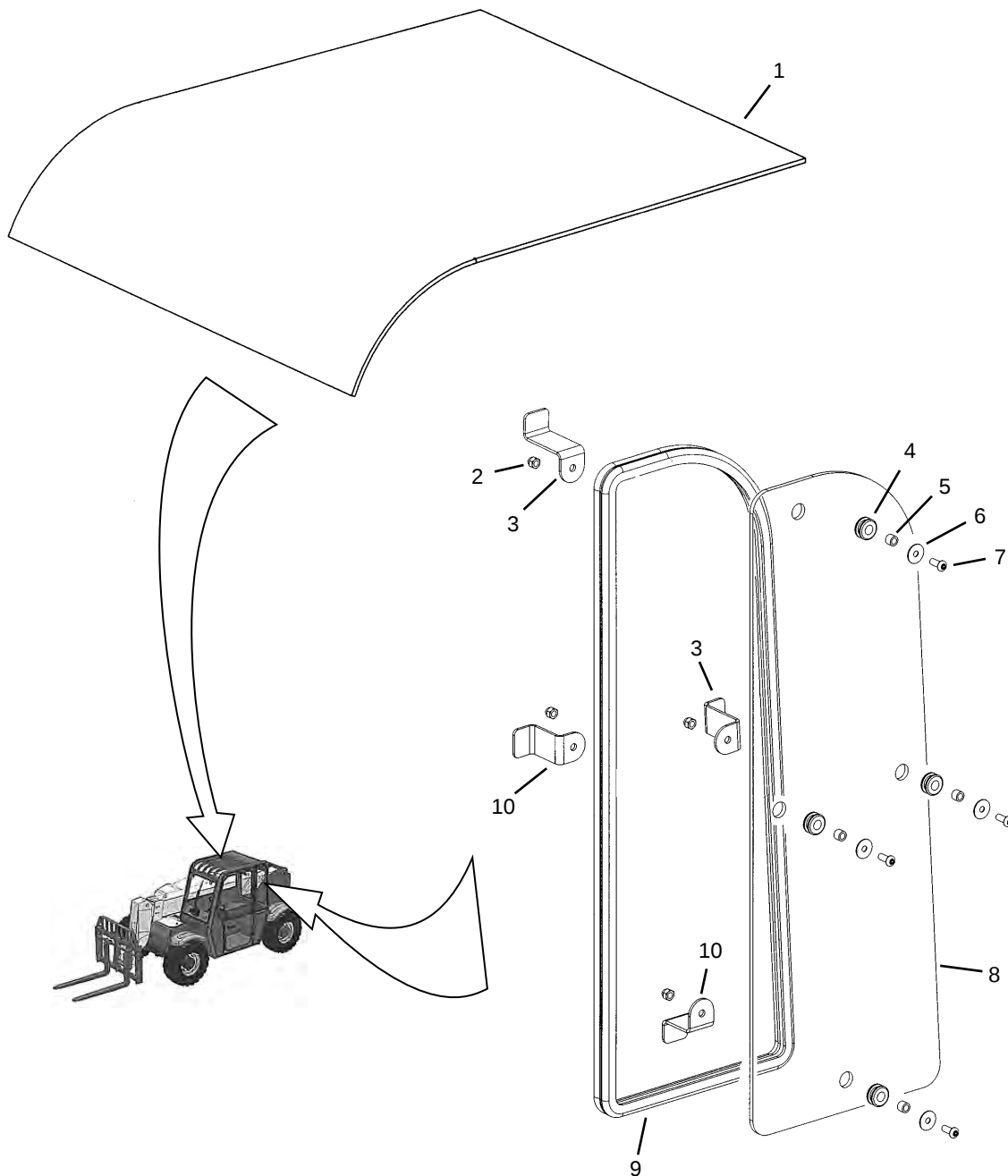


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Cab

Wiper Option - Front and Top Window

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
NOTE: Quantities listed are for one wiper group (e.g., front window, top window)				20	L500701	GASKET, PANTO ADAPTER	1
01	50380577	WIPER BLADE, 16"	1	21	L500708	TOWER SEAL, TRICO WIPER	1
02		WIPER ARM, PANTOGRAPH	1	22	L500695	WIPER MOTOR, TRICO	1
	50380576	Front and Rear Window		23	L500099	ADAPTER/WET ARM	1
	50380682	Top Window		24	101495	BOTTLE, DUAL -PUMP WASHER	1
03	50380579	PLATE, PANTO ARM MOUNT	1	25	104865	MOUNT, WASHER BOTTLE	1
04	50380583	PIN, PANTO ARM MOUNT	1	26	808498	CS 5/16 x 3/4"	4
05	L500706	M5, ACORN NUT	1	27	813610	FW 5/16 AWZY	4
06	L500700	M8, ACORN NUT	1	28	51202273	HN FL SLOC 5/16 CZY	4
13	L500696	COVER WIPER MOTOR.	1	-- ITEMS NOT SHOWN --			
14	L500718	BOLT / 10-24x1.25 HEX GR5	1	(Windshield Wiper Harness)			
15	L500001	WASHER/BLK NYLON	1	--	103179	HARNESS, TOP WIPER	1
16	139170	WASHER, #10 WEATHERTITE	2	--	103180	HARNESS, FRONT WIPER	1
17	L500004	NUT/ACORN #10-24 BLK	1	(Windshield Washer System)			
18	L500709	RAIN SHIELD	1	--	102925	HARNESS, WASHER BOTTLE	1
19	L500697	M18, NUT	1	--	103013	TUBING, WASHER (15-1/2')	1



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Cab

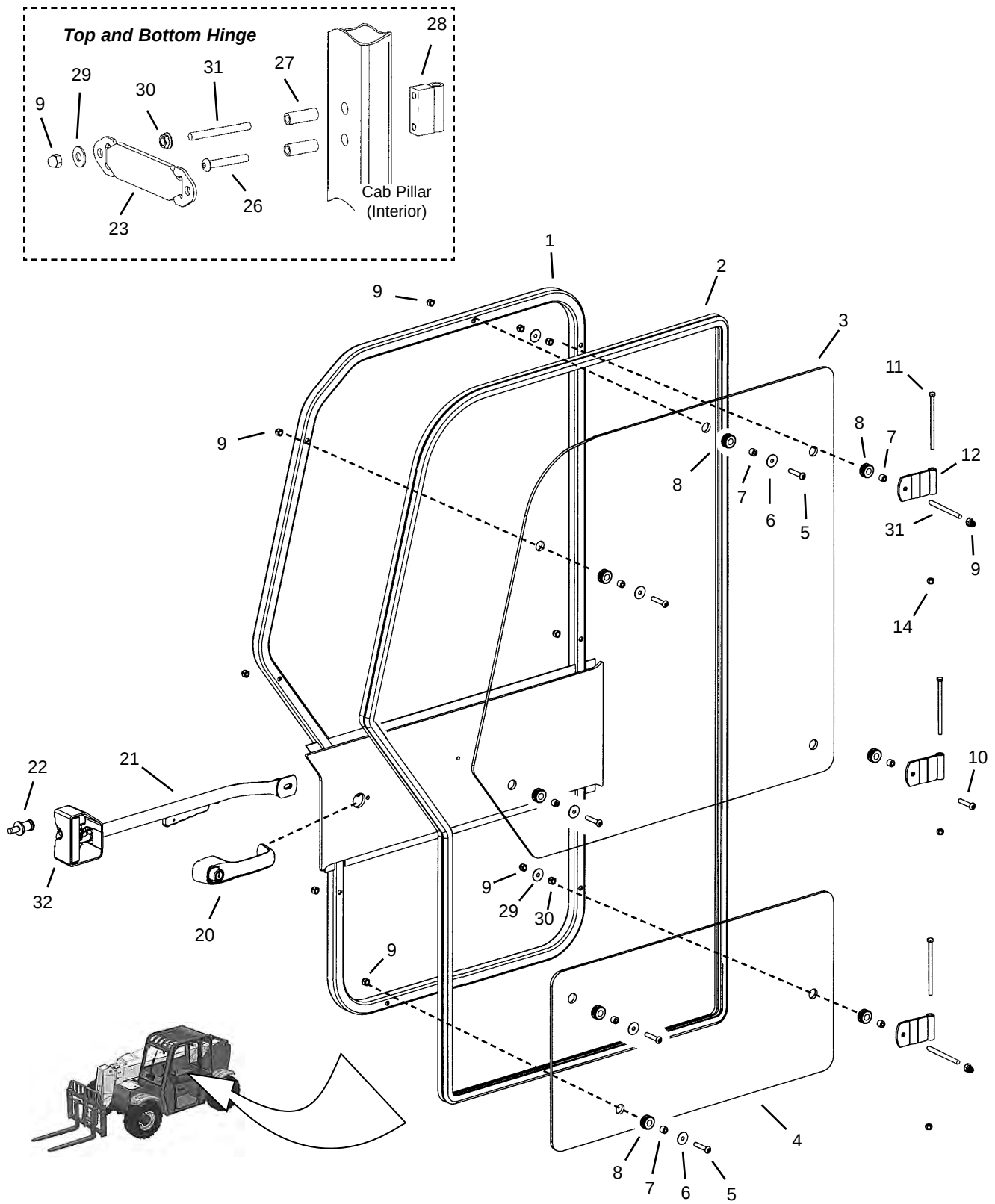
Window Option - Top and Left

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01 ^a	103027	GLASS, TOP	1	08	103025	GLASS, LEFT REAR.	1
02	L500038	5/16"-18 ACORN NUT	AR	09	103026	BULB SEAL, LEFT GLASS.	1
03	102711	WINDOW MOUNT.	2	10	102712	WINDOW MOUNT.	2
04	L500021	GROMMET, 1/2"IDX1/4"GROOVE .	4				
05	L500042	BUSHING, STEEL	4	a	Use P/N L500607 Adhesive Kit to attach top glass to cab.		
06	651641	5/16" FLAT WASHER (BLACK). . . .	4				
07	651639	5/16"-18X1" BUTTON HD BOLT . . .	4				

Cab

One-Piece Door Option

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

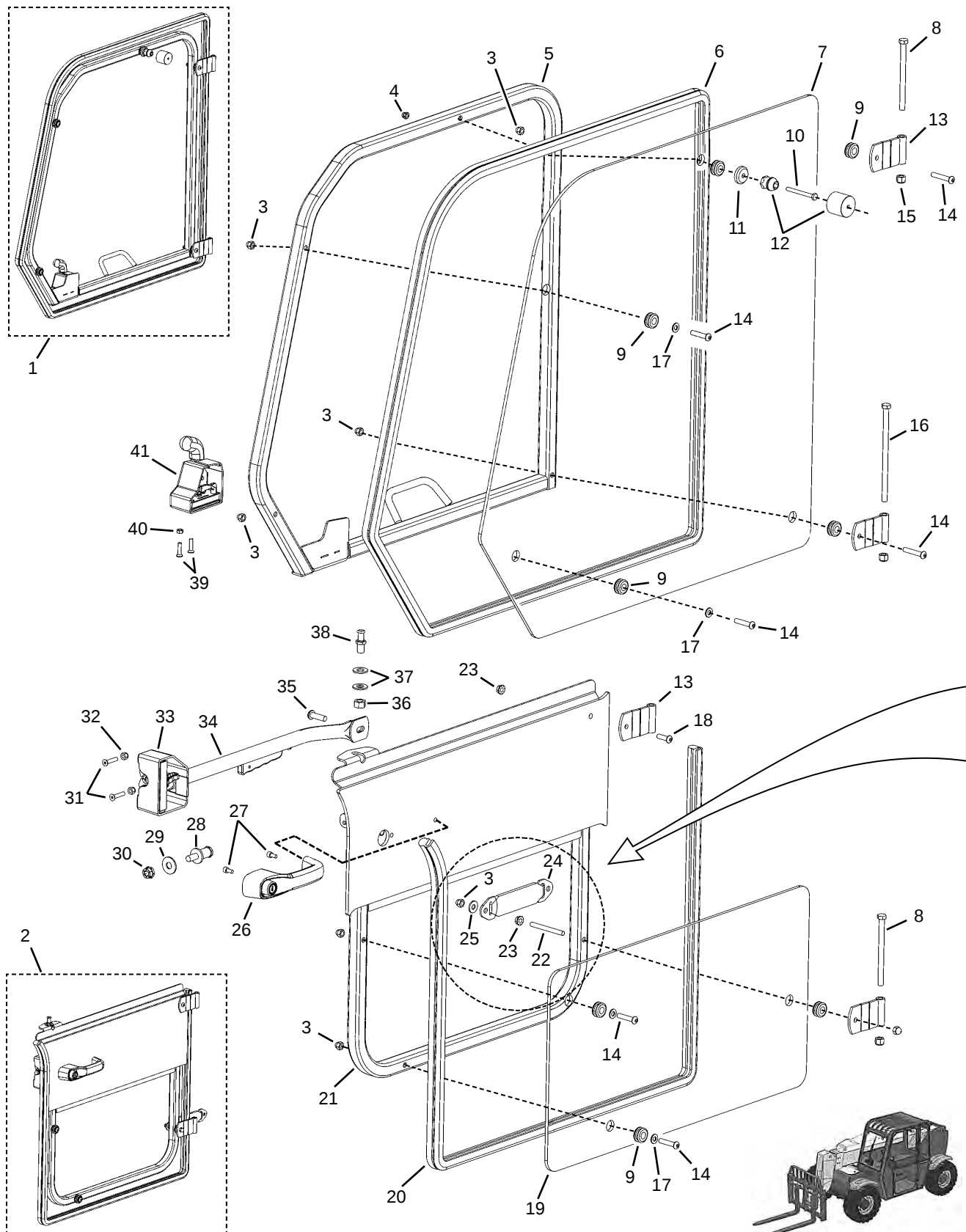
Cab One-Piece Door Option

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
00	104920	CAB DOOR, ONE-PIECE 1 (includes items 1-10, 12, and 29-31)		21	102886	LATCH RELEASE, INTERIOR 1	
01	102874	WELDMENT, CAB DOOR FRAME . 1			651635	1/4-20X1-1/4" FLAT HD SCREW . . 2	
02	102705	BULB SEAL, DOOR FRAME 1			L50202	1/4-20X5/8" BUTTON HD BOLT . . 1	
03	102680	GLASS, UPPER DOOR 1			651636	M6-1X12 8.8 BOLT 2	
04	102681	GLASS, LOWER DOOR 1			L500022	FLAT WASHER (BLACK) 1	
05	651638	5/16"-18X1-3/4" BUTTON HD BOLT 5			L520003	1/4"-20 NYLON INSERT NUT 2	
06	651641	5/16" FLAT WASHER (BLACK) . . . 5			L70069	1/2" HOLE PLUG 2	
07	L500042	BUSHING, STEEL 8		22	101436	STRIKER 1	
08	L500021	GROMMET, 1/2"IDX1/4"GROOVE . 8			654028	7/16" LOCK WASHER 1	
09	L500038	5/16"-18 ACORN NUT (BLACK) . . AR			654046	7/16" FLAT WASHER 1	
10	651643	5/16"-18X2" BUTTON HD BOLT . . 3			L50979	7/16"-14 NUT 1	
11	650730	3/8"x5" BOLT 3		23	104866	DOOR RESTRAINT STRAP 2	
12	102901	WELDMENT, DOOR HINGE 3		26	651643	5/16"X2" BUTTON HD BOLT 4	
14	067847	3/8" NYLON INSERT NUT 3		27	104081	TUBE, STAND-OFF 6	
20	102948	HANDLE, EXT. DOOR LOCKING . . 1		28	104082	HINGE, BOLT-ON 3	
	101792	KEY ONLY 1		29	654004	5/16" FLAT WASHER AR	
				30	210-19470	LN FL SERR 5/16 CZY AR	
				31	L50878	5/16"X3" STUD AR	
				32	101746	COVER (included with #21) 1	

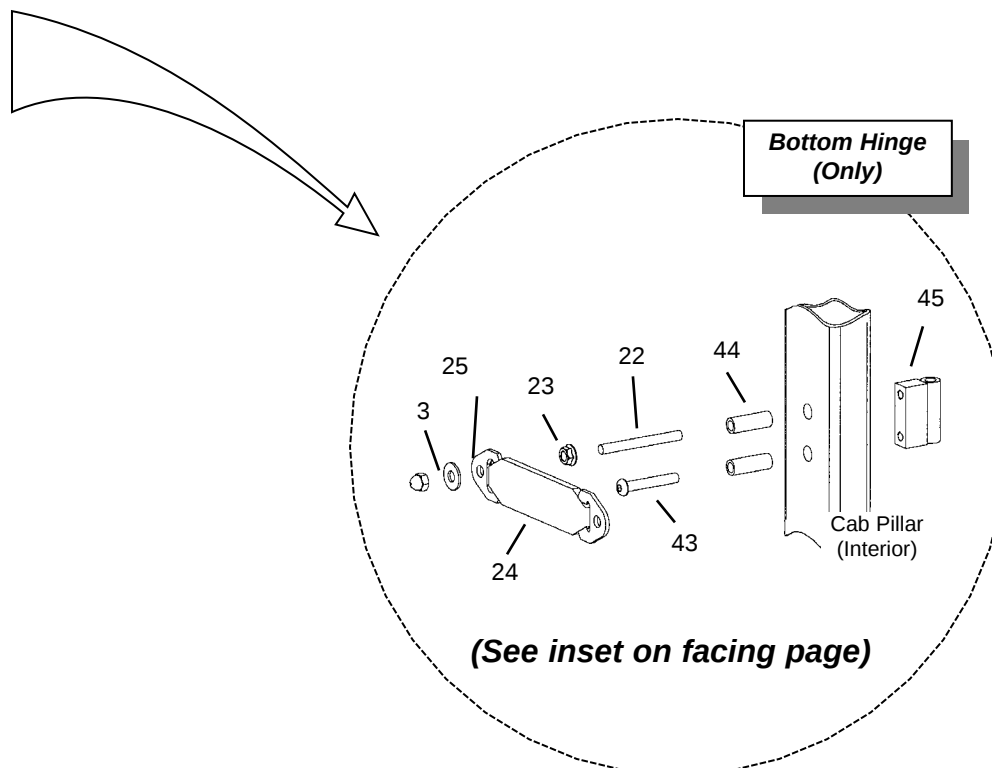
Cab

Split-Door Option

MT 5519 Telescopic Handler

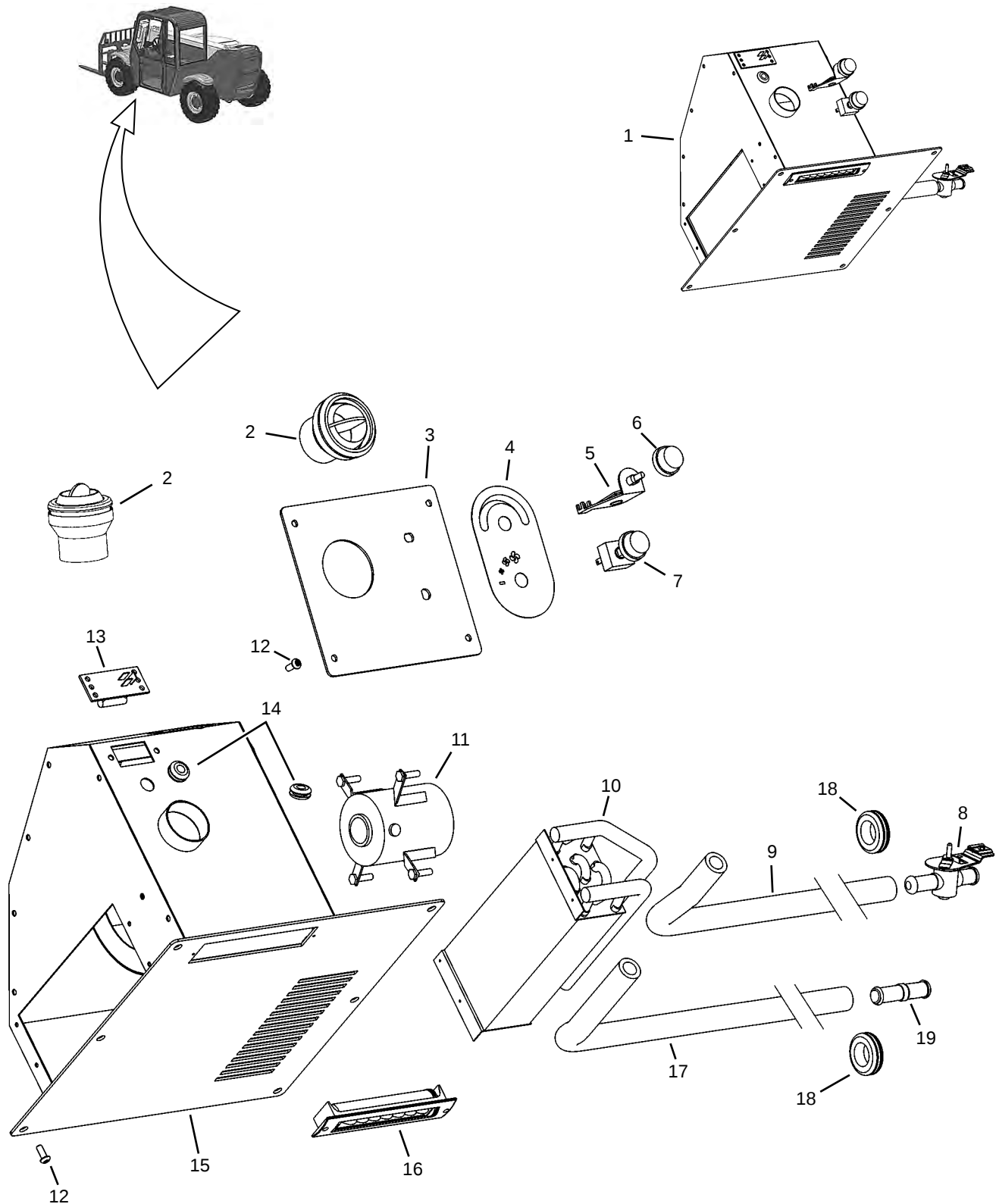


Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	211160	DOOR, TOP. 1 (includes items 3-7, 9-14, 16-17, 39-41)	1	23	210-19470	FLANGE LOCK NUT 5/16" 2	2
02	211159	DOOR, BOTTOM. 1 (includes items 13, 16-27, 31-38)	1	24	104866	DOOR RETAINER. 1	1
03	L500038	5/16"-18 ACORN NUT (BLACK). . AR		25	654004	FW 5/16" AWZY. 1	1
04	L500017	1/4" ACORN NUT (BLACK). 1	1	26	102948	HANDLE, EXTERIOR LOCKING .. 1	1
05	211107	FRAME, UPPER DOOR. 1	1		101792	KEY ONLY. 1	1
06	211158	BULB SEAL, UPPER DOOR. 1	1	27	651636	SHCS M6-1x12 C8.8 ZY DIN912 .. 2	2
07	211135	GLASS, UPPER DOOR. 1	1	28	101436	STRIKER. 1	1
08	650730	CS 3/8" x 5" C5ZY. 2	2	29	654046	FW 7/16" AWZY. 1	1
09	L500021	GROMMET, .50X0.25X0.81. AR		30	L50979	HN 7/16" FLEXLOCK GR5. 1	1
	L500042	BUSHING, STEEL (not shown) .. AR		31	651635	FHSCS 1/4"x1-1/4" CZY. 2	2
10	650449	CS 1/4" x 2-1/2" C5ZY. 1	1	32	071401	HLN INST 1/4 CZY. 2	2
11	101719	GLASS MOUNT. 1	1	33	101746	COVER (included with #34) 1	1
12	L500036	DOOR HOLDER (set). 1	1	34	102886	LATCH RELEASE, INTERIOR 1 (includes cover: item #33)	1
13	102901	DOOR HINGE. 3	3	35	651625	BHSCS 3/8"x1-1/4" CZY. 1	1
14	651638	BHSC 5/16" x 1-3/4" C RIE. 6	6	36	651606	HN M12-1.00 F8ZY DIN934. 1	1
15	067847	HLN 3/8" CZY. 3	3	37	651148	FN 1/2 ANZY. 2	2
16	650991	CS 3/8" x 7" C5ZY. 1	1	38	101710	STRIKER. 1	1
17	651641	FW 5/16 RIE. AR		39	651464	FHSCS M6-1x25 C8.8 DIN7991 .. 2	2
18	651639	BHSCS 5/16" x 1-3/4" C RIE. 1	1	40	656047	HN M6-1.00 C8 DIN934. 1	1
19	102681	GLASS, LOWER DOOR. 1	1	41	101756	LATCH, ROTARY (RIGHT). 1	1
20	211156	BULB SEAL, LOWER DOOR. 1	1	42	L50878	5/16"X3" STUD. AR	
21	211103	FRAME, LOWER DOOR. 1	1	43	651643	5/16"X2" BUTTON HD BOLT. 5	5
22	L50878	STUD 5/16" x 3" GR5. 1	1	44	104081	TUBE, STAND-OFF. 6	6
				45	104082	HINGE, BOLT-ON. 3	3



Cab Heater Option

MT 5519 Telescopic Handler

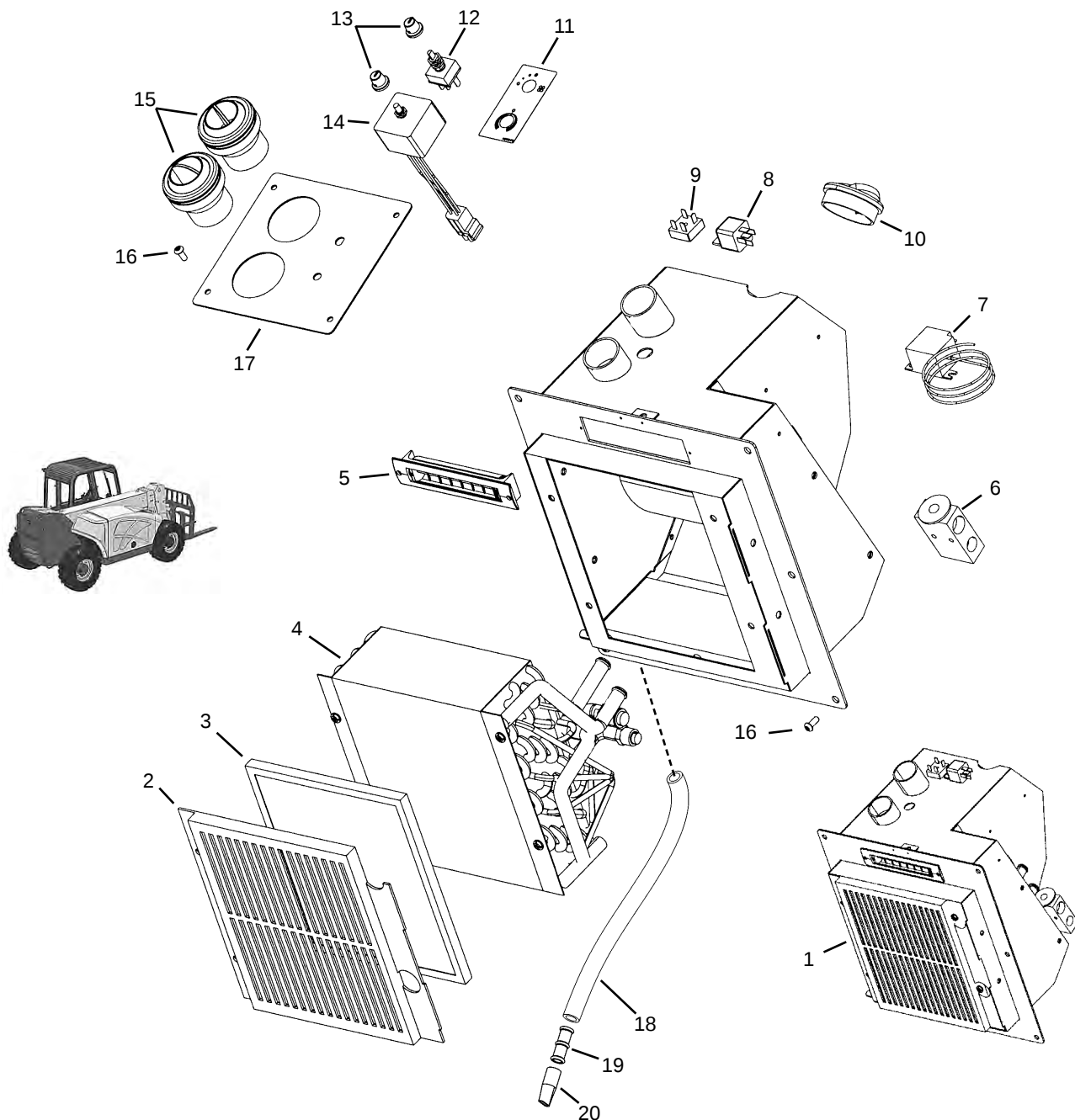


MT 5519 Telescopic Handler

Cab

Heater Option

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	102907	HEATER ASSEMBLY	1	09	NSS	HOSE, 5/8" - FORMED	1
		<i>(Includes items 5-11; 13-19)</i>		10	50380847	HEATER CORE	1
02	L63545	GRILL, DEFROSTER	2	11	103033	BLOWER MOTOR	1
03	102944	INSTRUMENT PANEL	1			<i>(does not include fan/cage)</i>	
04	102945	DECAL, HEAT CONTROL	1	12	L50202	1/4"-20X5/8" BUTTN HD BOLT . . .	10
05	187841	CONTROL, TEMPERATURE	1	13	136310	RESISTOR BLOCK	1
		<i>(does not include knob)</i>		14	NSS	GROMMET 5/8" OD X 3/8" ID	2
06	136304	KNOB <i>(not included with #5)</i>	1	15	NSS	HOUSING	1
07	136305	SWITCH, VARIABLE SPEED	1	16	137503	LOUVER	1
		<i>(includes knob and nuts; the knob is not available as a separate item)</i>		17	NSS	HOSE, 5/8" - FORMED	1
	50300066	PANEL MOUNT NUTS <i>(included)</i> . .	2	18	NSS	GROMMET 1-3/8" OD X 1" ID	2
08	L500163	VALVE, WATER	1	19	NSS	HOSE COUPLER	1

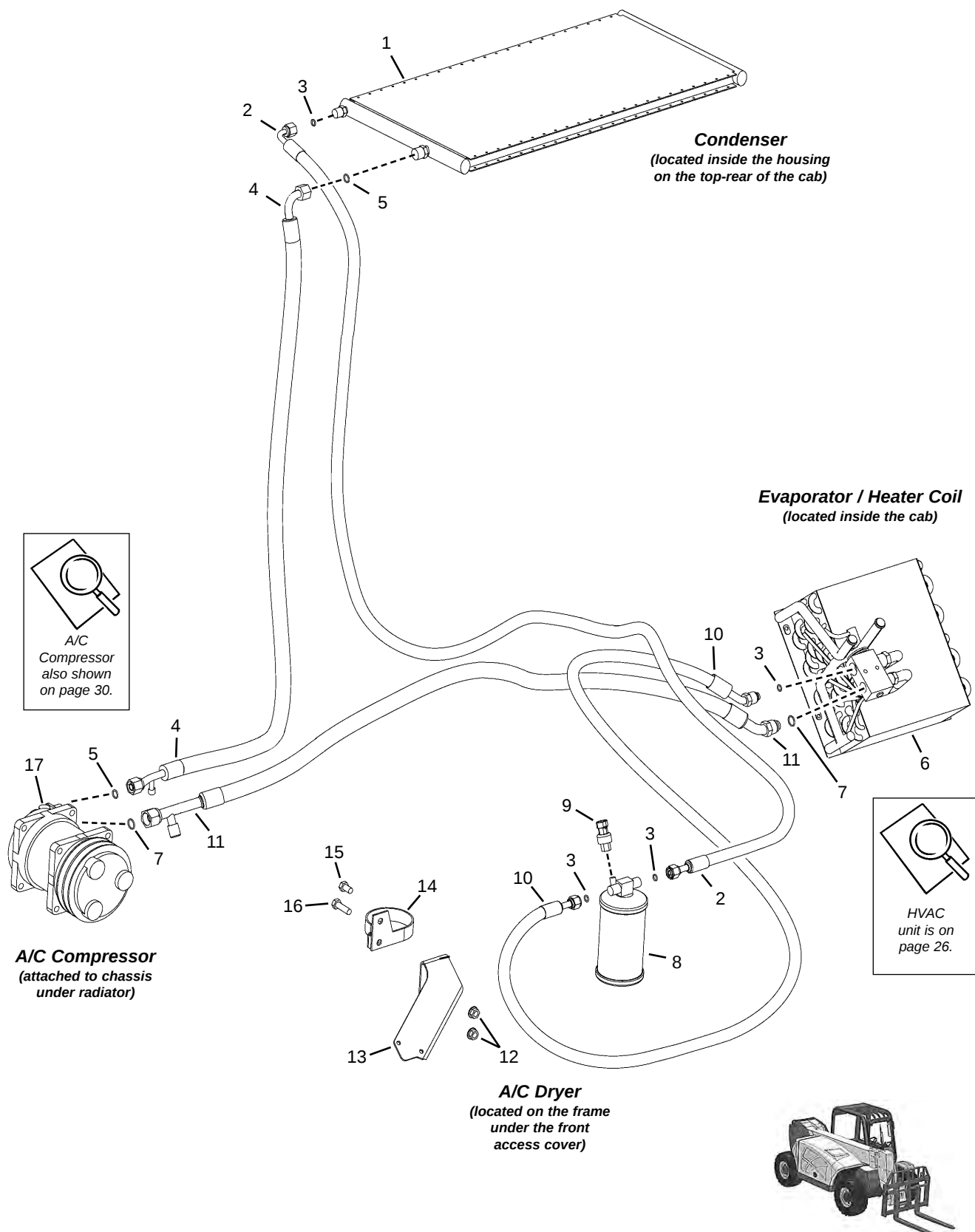


MT 5519 Telescopic Handler

Cab

A/C - Heater Option

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	210796	HVAC ASSEMBLY	1	10	420-36290	LOUVER	1
		<i>(includes items 2-9)</i>		11	189049	DECAL, A/C HEATER CONTROL . .	1
	211147	FAN <i>(only)</i>	1	12	136305	SWITCH, VARIABLE SPEED	1
02	211145	FILTER COVER	1	13	139279	KNOB.	2
03	211146	FILTER, CAB AIR	1	14	189033	MODULE, A/C CONTROL	1
04	211149	EVAPORATOR/HEATER COIL	1	15	L63545	GRILL, VENT	2
05	137503	LOUVER	1	16	L50202	1/4"-20X5/8" BUTTON HD BOLT .	10
06	211148	EXPANSION VALVE	1	17	211023	PANEL, HVAC CONTROL	1
07	138623	COLD CONTROL SWITCH	1	18	50306332	HOSE, HVAC 1/2" x 12"	1
08	242145	RELAY	1	19	244815	HOSE COUPLER 1/2"	1
09	242875	RECTIFIER PACK	1	20	187030	DRIP CAP	1



MT 5519 Telescopic Handler

Cab

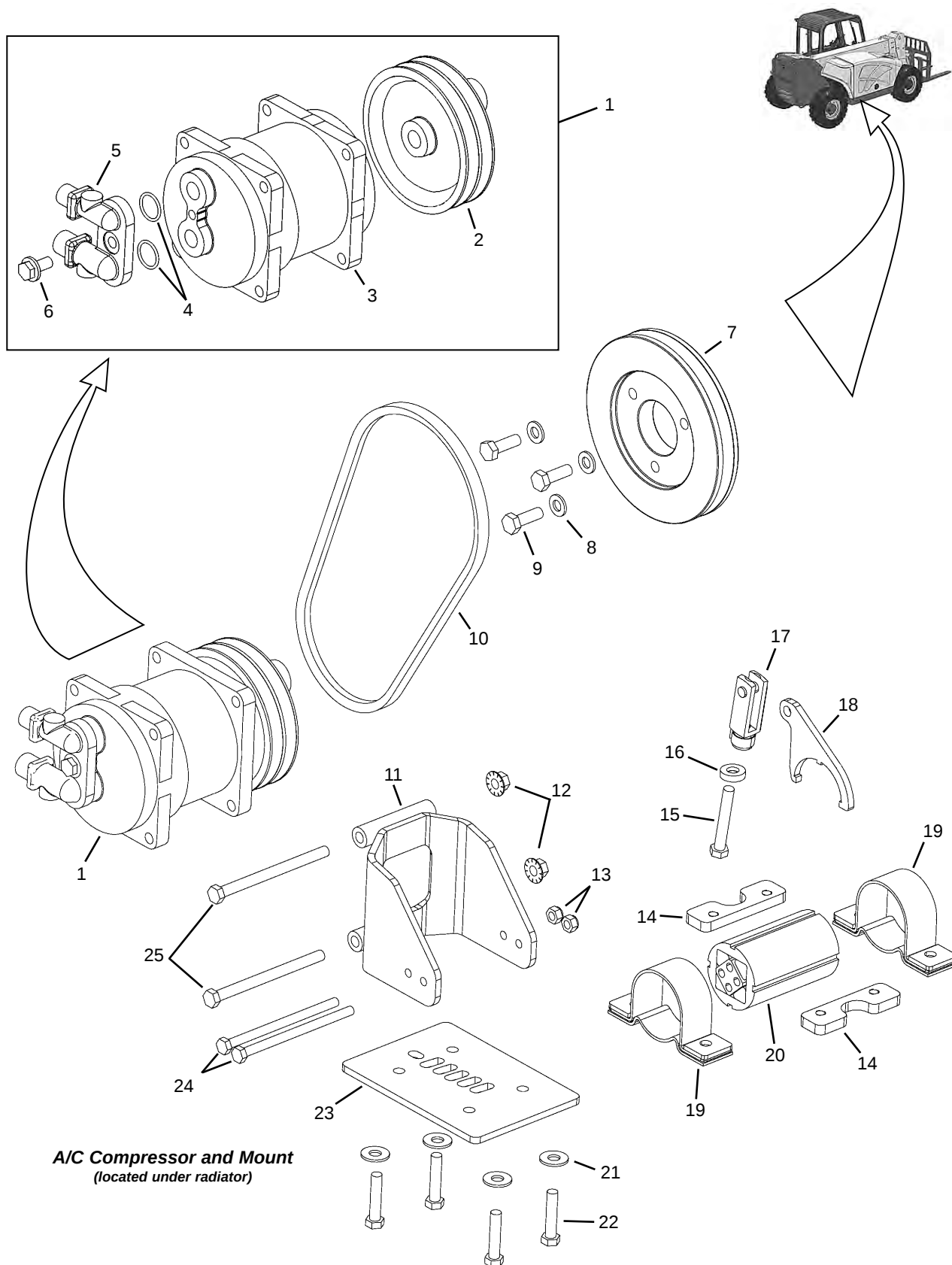
A/C Circuit Option

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	L500595	CONDENSER	1	15	650450	CS 3/8" x 5/8" C5ZY	1
02	210795	HOSE, #6 CONDENSER/DRYER. . .	1	16	650491	CDS 3/8" x 1" C5ZY	1
03	138777	O-RING.	AR	17	241310	A/C COMPRESSOR	1
04	210790	HOSE, #8 COND./COMPRESSOR. .	1				
05	138778	O-RING.	AR				
06	211149	EVAPORATOR/HEATER COIL	1	--	210829	-- ITEMS NOT SHOWN -- WIRE HARNESS, A/C COND.	1
07	138779	O-RING.	AR			(Connects to A/C condenser, routes through A/C hose guard—back of cab, connects to A/C evaporator wire harness, A/C compressor, and the fuse box.)	
08	138649	A/C DRYER (does not include #9) .	1				
09	138714	SWITCH, BINARY	1				
10	210793	HOSE, #6 DRYER/EVAPORATOR. .	1				
11	210791	HOSE, #10 COMP./EVAPORATOR. .	1				
12	090666	HN FL SLOC 3/8" CZY	2				
13	210821	BRACKET, DRYER MOUNT	1	--	210830	WIRE HARNESS, A/C EVAP.	1
14	138651	CLAMP, DRYER	1			(Connects to A/C evaporator—in cab, the A/C-heater solenoid, the A/C condenser wire harness, and the fuse box.)	

Cab

A/C Compressor and Mount Option

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

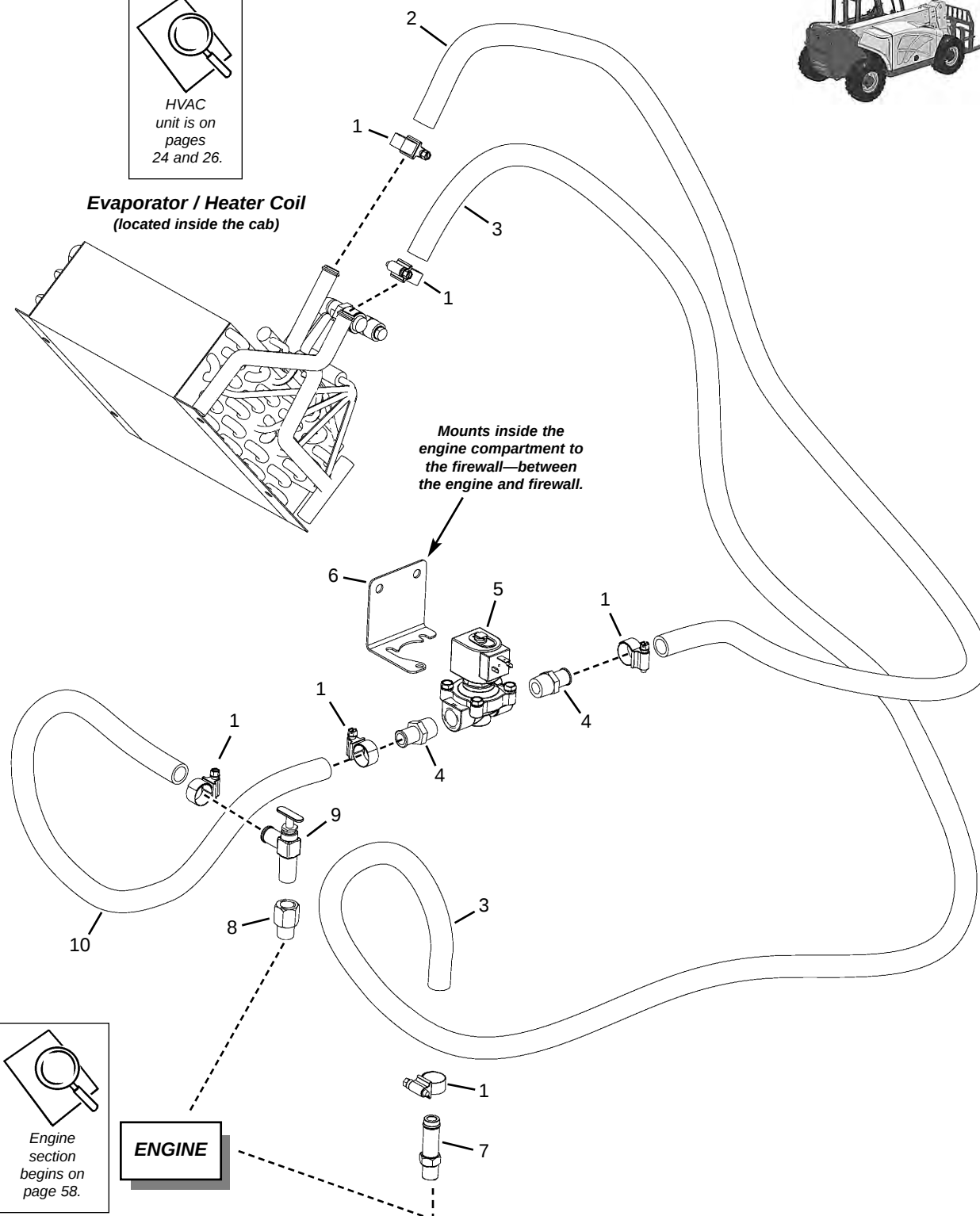
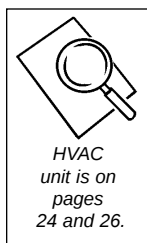
Cab

A/C Compressor and Mount Option

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	241310	A/C COMPRESSOR	1	13	651780	LN INST M8-1.25 C8 ZY DIN985 . .	2
		(includes items 2-6)		14	210788	PLATE, CLAMP 3/8"-16.	2
02	139288	CLUTCH, A/C COMPRESSOR	1	15	271028	CS 3/8" x 2-1/2" F5ZY SP	1
03	NSS	COMPRESSOR BODY	1	16	210787	WASHER SPHERICAL 3/8"	1
04	140780	O-RING SET, MANIFOLD	1	17	210785	YOKE, CLEVIS 3/8"-24 UNF.	1
05	241303	A/C COMPRESSOR MANIFOLD . .	1	18	210784	PLATE, TORSION WRENCH	1
06	138781	HW HMS M10 x 20	1	19	210772	CLAMP, TORSION MOUNT	2
07	241008	PULLEY, A/C CRANK	1	20	210771	MOUNT, SUSPENSION	1
08	656133	FW M10 ZY DIN125	3	21	654006	FW 3/8" AWZY	4
09	651395	CS M10-1.5x30 C10.9 ZY DIN931 .	3	22	650579	CS 3/8" x 1-3/4" C5ZY	4
10	210789	BELT, A/C COMPRESSOR	1	23	210774	PLATE, COMPRESSOR BASE	1
11	210768	A/C COMPRESSOR MOUNT	1	24	656180	CS M8-1.25x130 C8.8 ZY DIN931 .	2
12	070856	HN LF SLOC 3/8" CZ	2	25	650730	CS 3/8" x 5" C5ZY	2

Heater Circuit — (A/C or Heater Only) Option

NOTE: The heater circuit shown here is the same for both the A/C and Heater Only options.



MT 5519 Telescopic Handler

Cab

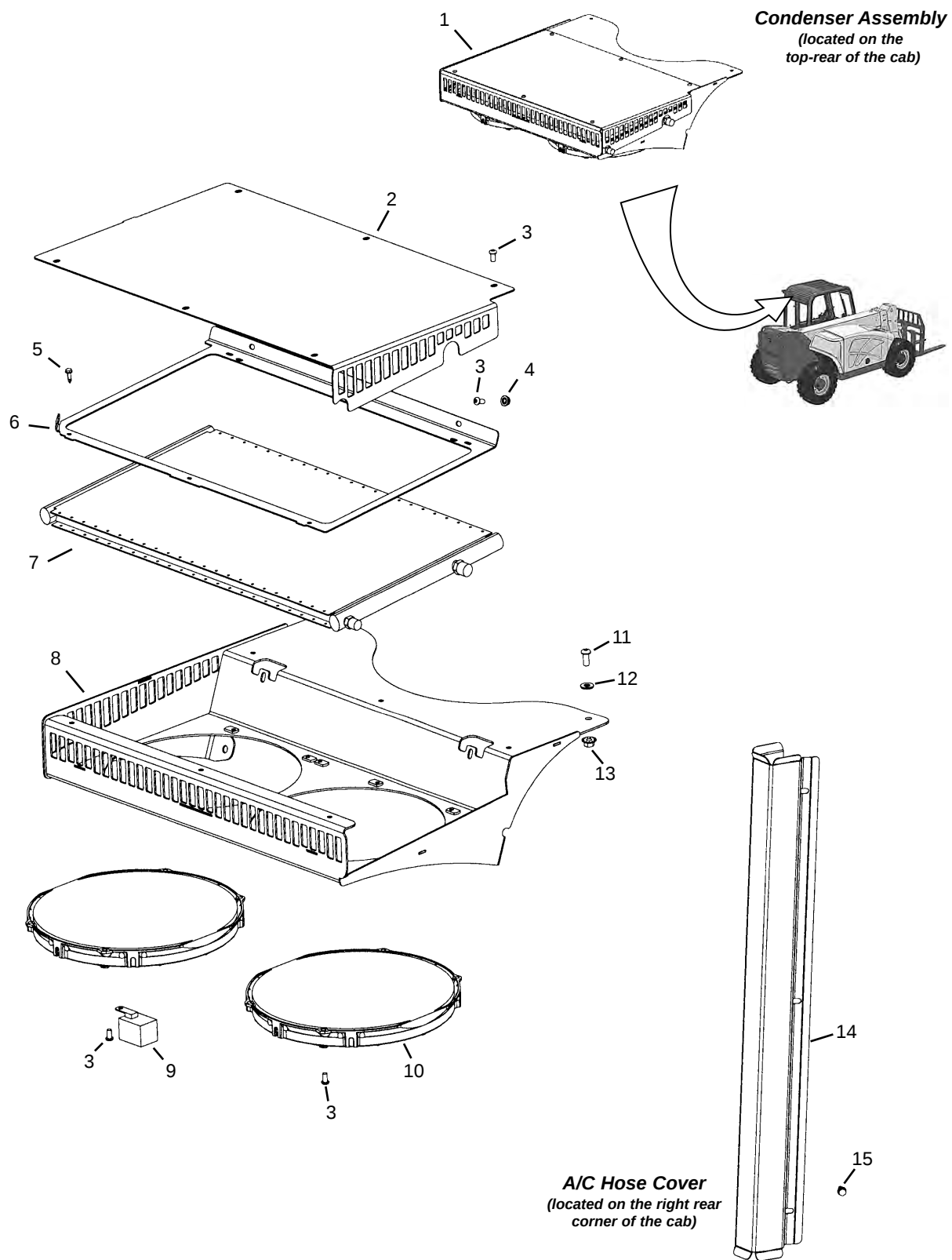
Heater Circuit (A/C or Heater Only) Option

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	095955	CLAMP, HOSE #10	6	07	104052	ST-L HB10-MBSPT06	1
02	241524	HEATER HOSE, 5/8" x 64-1/2"	1	08	104059	ST FP06-MBSPT06	1
03	211034	HEATER HOSE, 5/8" X 100"	1	09	L68592	SHUT-OFF, MANUAL	1
04	186193	ST 1/2MPT x 5/8" HOSE	2	10	138458	HEATER HOSE, 5/8" x 32"	1
05 ^a	186703	HEATER-A/C SOLENOID	1				
06	210832	VALVE BRACKET	1	a	Solenoid valve attaches to the A/C evaporator wire harness (P/N 210830).		

Cab

A/C Condenser Option

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

Cab

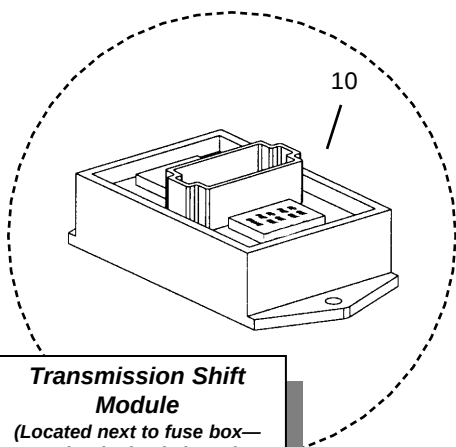
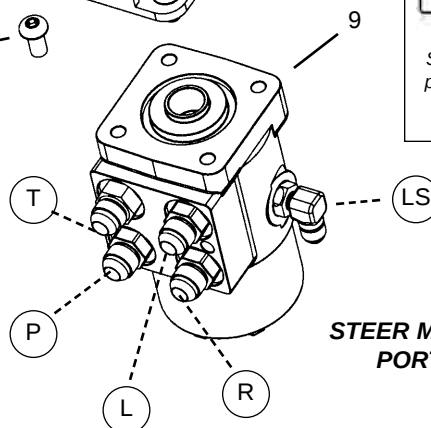
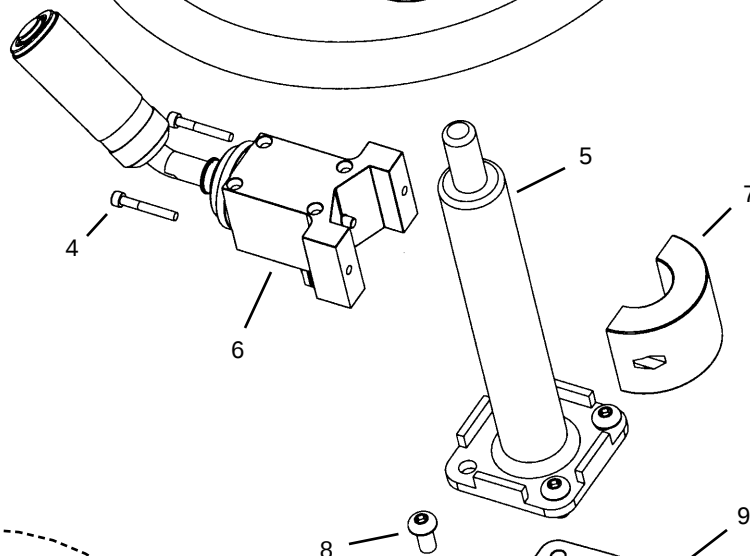
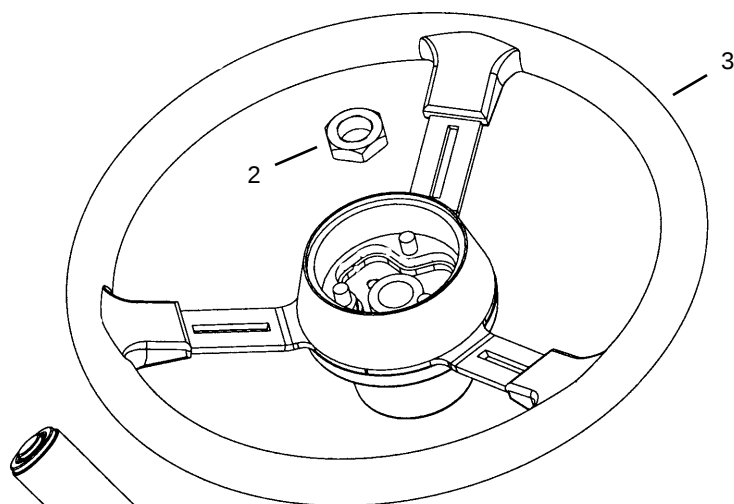
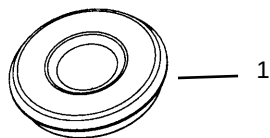
A/C Condenser Option

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	211052	CONDENSER ASSEMBLY	1	12	210765	FW 5/16" ZY SEALING	4
		<i>(includes items 1-10)</i>		13	070648	LN LG FL SERR 5/16 CZ	4
02	211039	COVER, CONDENSER HOUSING .	1	14	50380634	COVER, A/C HOSES	1
03	089888	BHSCS 1/4" x 1/2"	17	15	650315	SELF-TAP SCREW 1/4" x 1/2"	3
04	L50051	FLANGE LN 1/4"-20	2				
05	L500596	SELF-TAP SCREW 3/16" x 5/8" . .	6				
06	211035	MOUNT, CONDENSER COIL	1	--	210829	-- ITEMS NOT SHOWN --	
07	L500595	CONDENSER COIL	1			WIRE HARNESS, A/C COND.	1
08	211045	CONDENSER HOUSING	1			<i>(Connects to A/C condenser, routes</i>	
09	420-35602	RELAY	1			<i>through A/C hose guard [back of</i>	
10	L500594	CONDENSER FAN ASSEMBLY . . .	2			<i>cab], connects to A/C evaporator</i>	
11	651640	BHSCS 5/16" x 3/4"	4			<i>wire harness, A/C compressor, and</i>	
						<i>the fuse box.)</i>	

Cab

Steering Column and Shifter Group

MT 5519 Telescopic Handler



Transmission Shift Module
(Located next to fuse box—
under the load charts.)

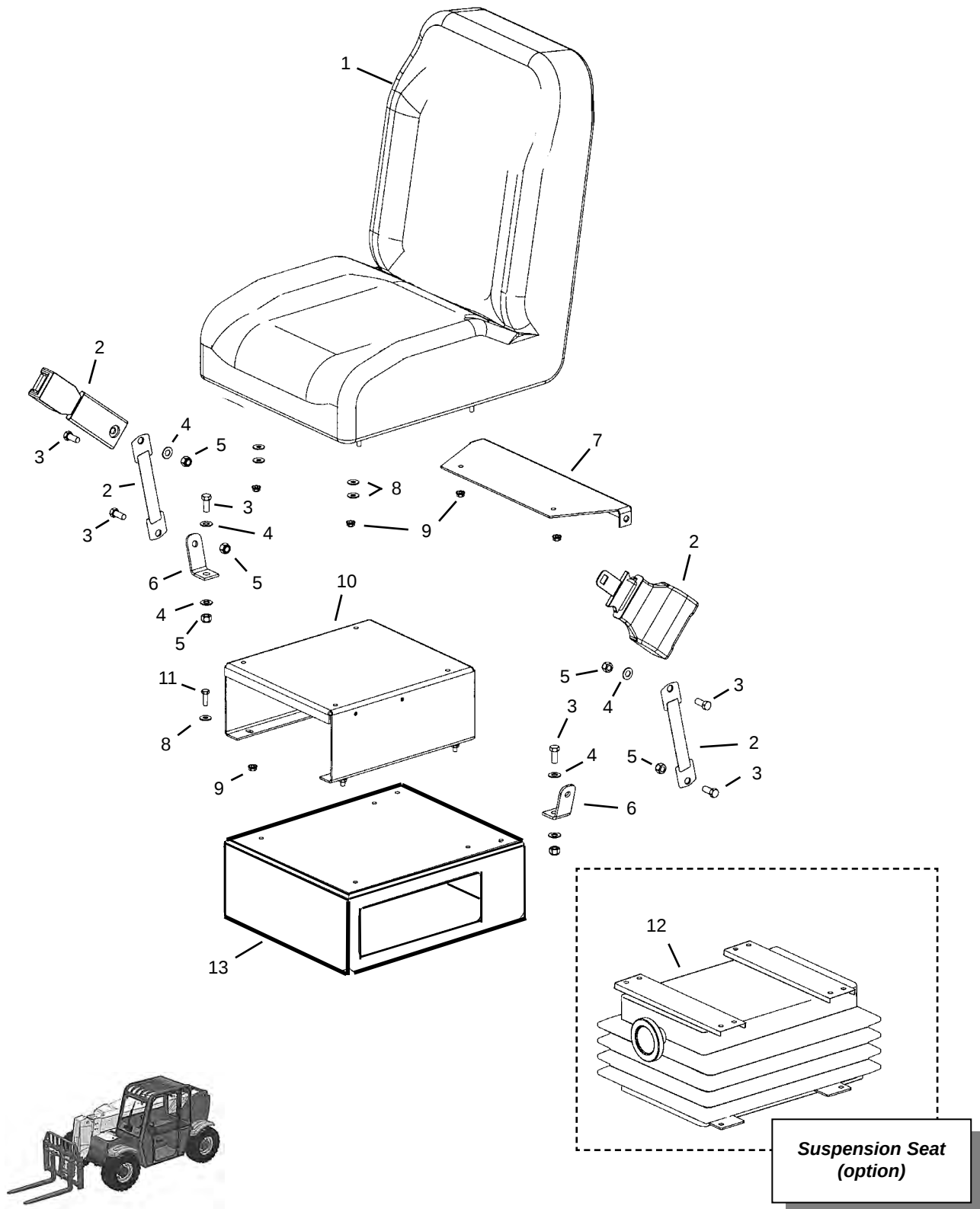


**STEER MOTOR
PORTS**

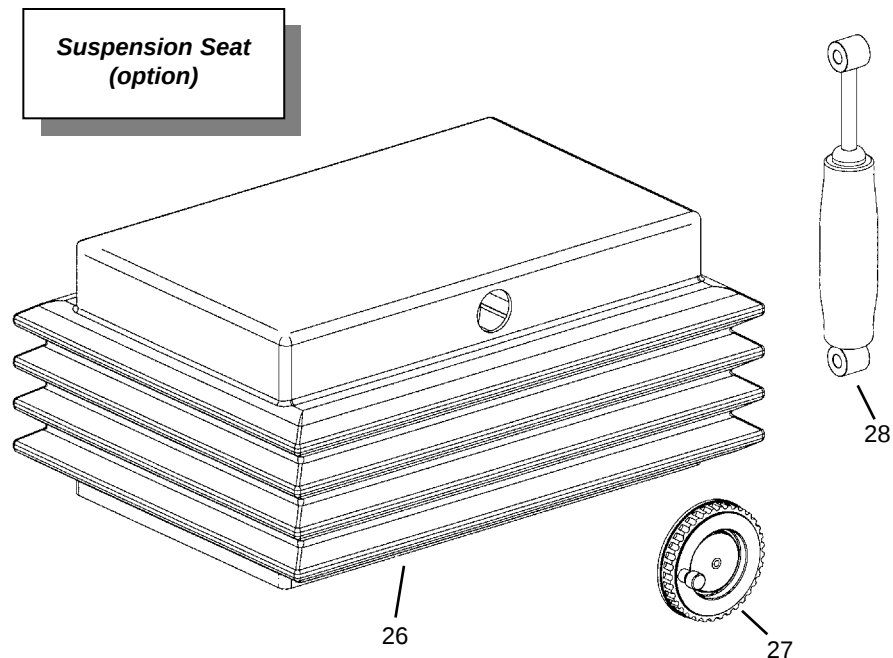
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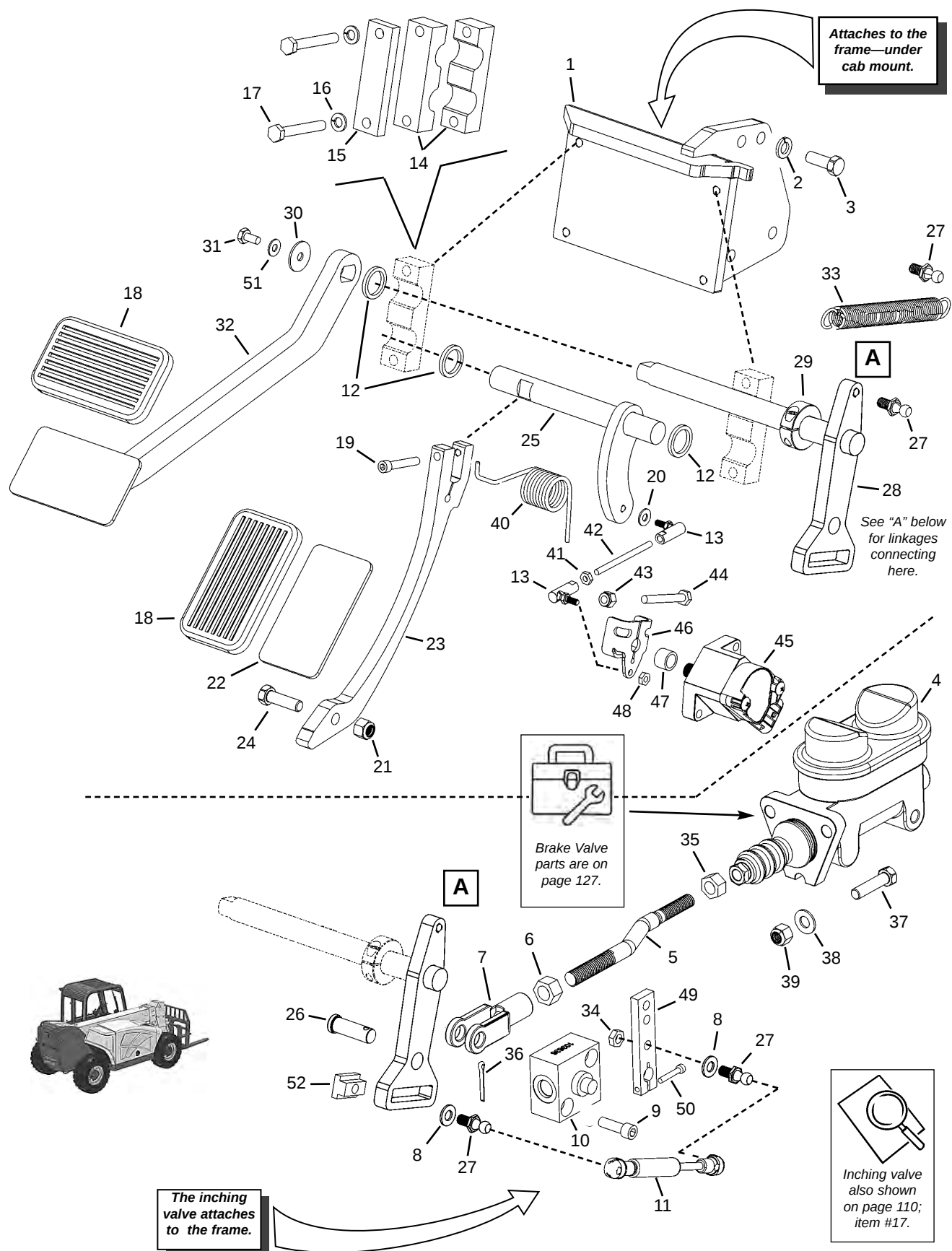
Steering Column and Shifter Group

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	103359	CAP, STEERING WHEEL	1	08	651625	3/8"-16X1-1/4" BUTTON HD BOLT .	4
02	L41261	NUT, STEERING WHEEL	1	09	50304291	MOTOR, STEER	1
03	L69595	STEERING WHEEL	1	10	101877	MODULE, F-N-R SHIFTER.	1
04	L50101	M5X.8X35mm HX SKTHD BOLT . .	2				
05	102783	COLUMN, STEERING.	1				
06	L68280	F-N-R SHIFTER (includes #7). . . .	1			-- ITEMS NOT SHOWN --	
	L99425	BOOT	1	--	103980	WIRE HARNESS, FNR SHIFTER. .	1
07	105236	CLAMP, SHIFTER(included w/ #6) .	1				



Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	210170	SEAT, OPERATOR'S (wo/armrest) . . . 1		12 ^{cd}	L68496	BELLOWS, SUSPENSION SEAT . . . 1	
02	103985	SEAT BELT (includes tethers) 1				(includes seat belt / tether bracket)	
03	650630	7/16"-20X1" BOLT AR		13	103195	PEDESTAL / BOLT-ON SEAT 1	
04	L50196	7/16" FLAT WASHER AR					
05	L50517	7/16"-20 NYLON INSERT NUT . . AR		26 ^c	210403	BELLOWS, SEAT (boot only) 1	
06	L70212	BRACKET, TETHER 2		27 ^c	210405	ADJUSTMENT KNOB 1	
07 ^a	103984	MOUNT, SEAT BELT 1		28 ^c	210404	SHOCK, SUSP. SEAT 1	
08	654004	5/16" FLAT WASHER AR					
09	210-19470	5/6"-18 NYLON INSERT NUT . . . AR		a	Use this bracket for standard and suspension seats. Discard the bracket that is included with the suspension.		
10 ^b	100071	SEAT RISER 1		b	Not used with suspension seat		
11	650487	5/16"-18X1" BOLT AR		c	Used for suspension seat option only		
				d	Discard tether bracket and use item #7 on all applications.		

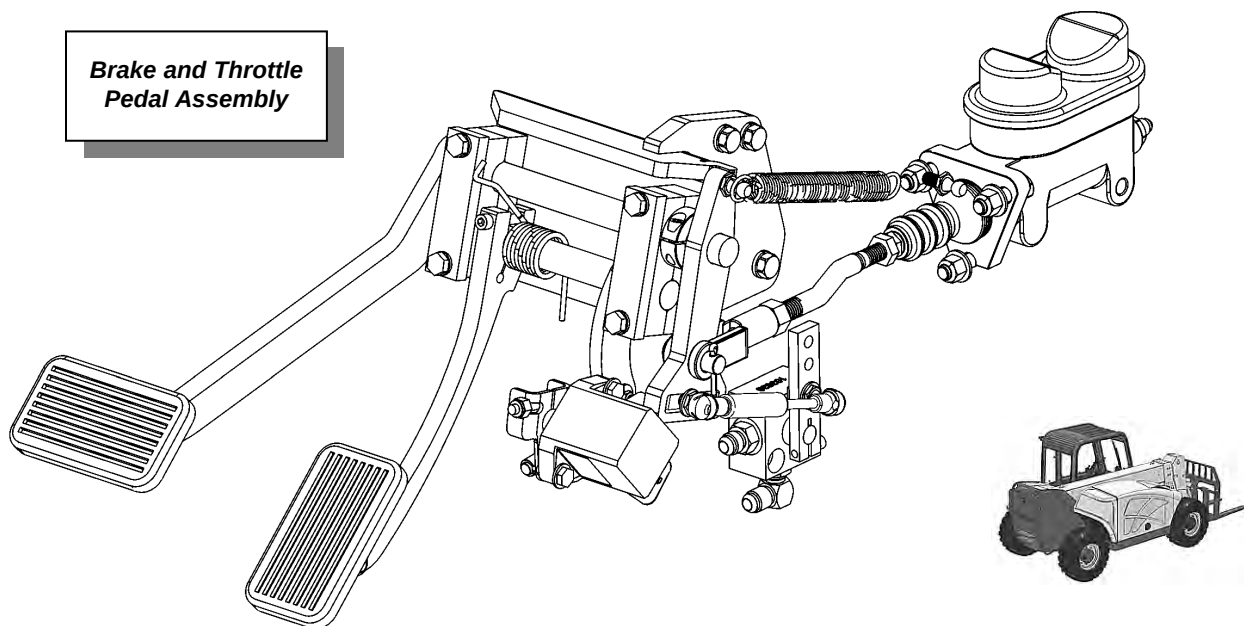


Pedals - Brake and Accelerator

Pedals - Brake and Accelerator

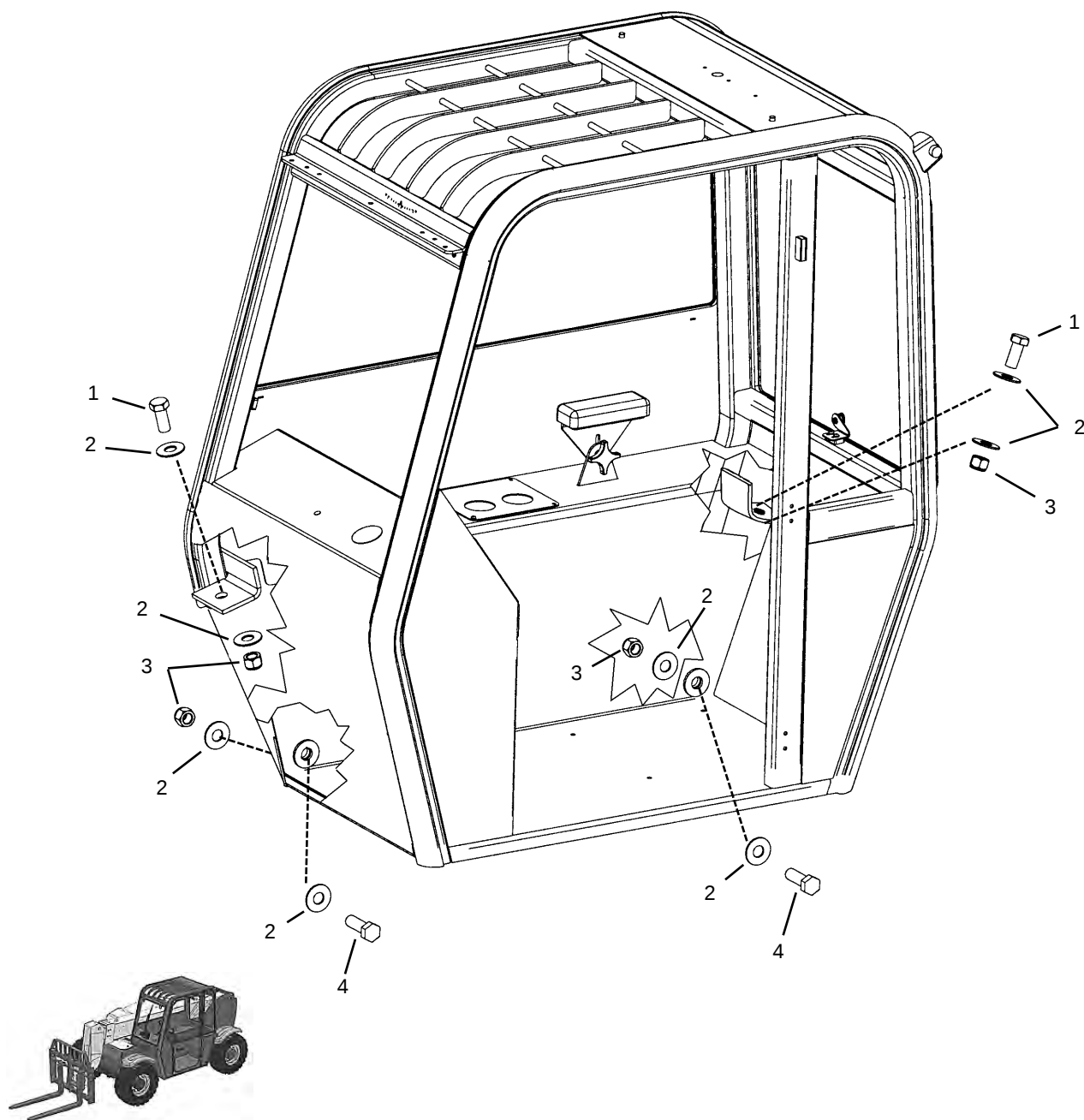
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	210646	BRAKE/THROTTLE FRAME	1	30	L500022	1/4"X1"OD WASHER	1
02	654026	3/8" LOCK WASHER	AR	31	L50209	1/4"X1/2" BOLT	1
03	650490	3/8"X1" BOLT	AR	32	104004	BRAKE PEDAL WELDMENT	1
04	L63363	VALVE, MASTER CYL. BRAKE . . .	1	33	L561004	RETURN SPRING	1
05	210001	BRAKE LINKAGE WELDMENT . . .	1	34	653034	5/16"-18 UNC JAM NUT	2
06	653018	1/2" NUT	1	35	L446043	7/16" JAM NUT	1
07	L580005	YOKE, CLEVIS 1/2"	1	36	L50607	1/8"X1" COTTER PIN	1
08	650810	FW 5/16 ANZY	2	37	650533	3/8"X1-1/2" BOLT	3
09	651517	SHCS M8-1.25x30 C8.8	2	38	654006	3/8" FLAT WASHER	3
10	103838	INCHING VALVE	1	39	067847	3/8" NYLON INSERT NUT	3
11	50380513	SPRING, GASS	1	40	210708	SPRING, THROTTLE RETURN . . .	1
12	103835	NYLON SPACER	AR	41	650648	HN MS #10-32 FZY	1
13	L580009	BALL JOINT 10-32 x 1/4"	2	42	211112	ROD, THREADED 10-32UNF	1
14	104028	CUSHION BLOCK, BRAKE	AR	43	071401	HLN INST 1/4" CZY	1
15	L63719	PLATE	2	44	650706	CS 1/4X2 C5ZY	1
17	650725	5/16"X2-1/4" BOLT	AR	45	50353984	SENSOR, THROTTLE	1
18	L69789	PAD, PEDAL	AR		650863	FW 1/4" ANZY (not shown)	2
19	651798	1/4"X1-1/2" SH BOLT	1		650448	CS 1/4x3/4" (not shown)	2
20	650863	FW 1/4" ANZY	1	46	211102	BRACKET, THROTTLE	1
21	067847	3/8" NYLON INSERT NUT	AR	47	211110	RING, SPACER	1
22	L69615	THROTTLE PEDAL WELD.	1	48	121002	HLN INST 1/4 FZY	1
23	210645	THROTTLE PEDAL ARM	1	49a	NSS	LEVER, INCHING VALVE	1
24	650491	3/8"X1-1/4" BOLT	1	50a	651505	SHCS M5-0.8x20 C8.8ZY	1
25	210640	THROTTLE LEVER WELD.	1	51	654002	1/4" FW	1
26	L44859	1/2"X27/64 CLEVIS PIN	1	52	50380515	NUT, T-SLOT	1
27	L69488	BALL STUD	4				
28	50380519	BRAKE LEVER WELDMENT	1				
29	103834	SHAFT COLLAR	1				

a Included with item #10.

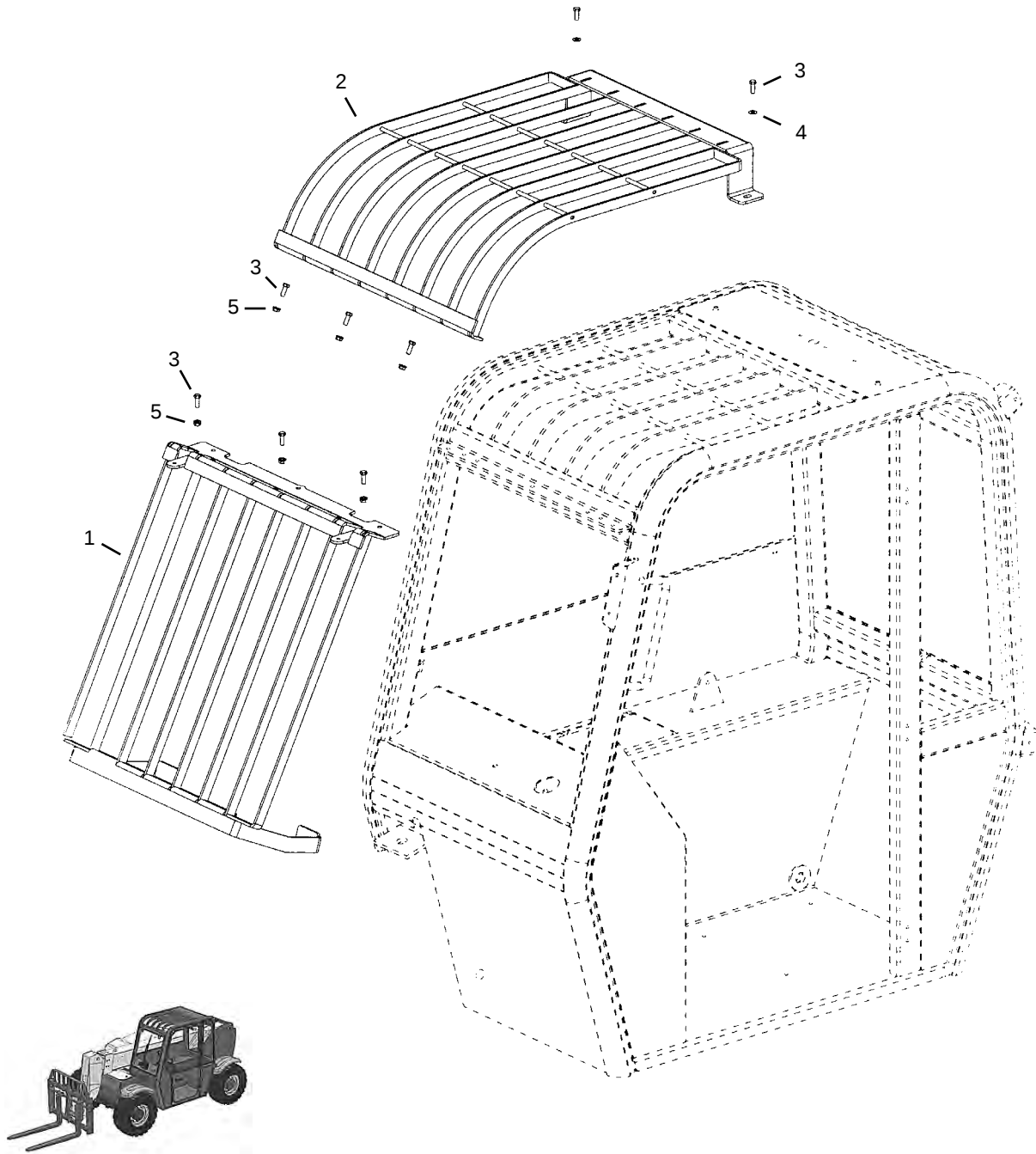


Cab Cab Mounts

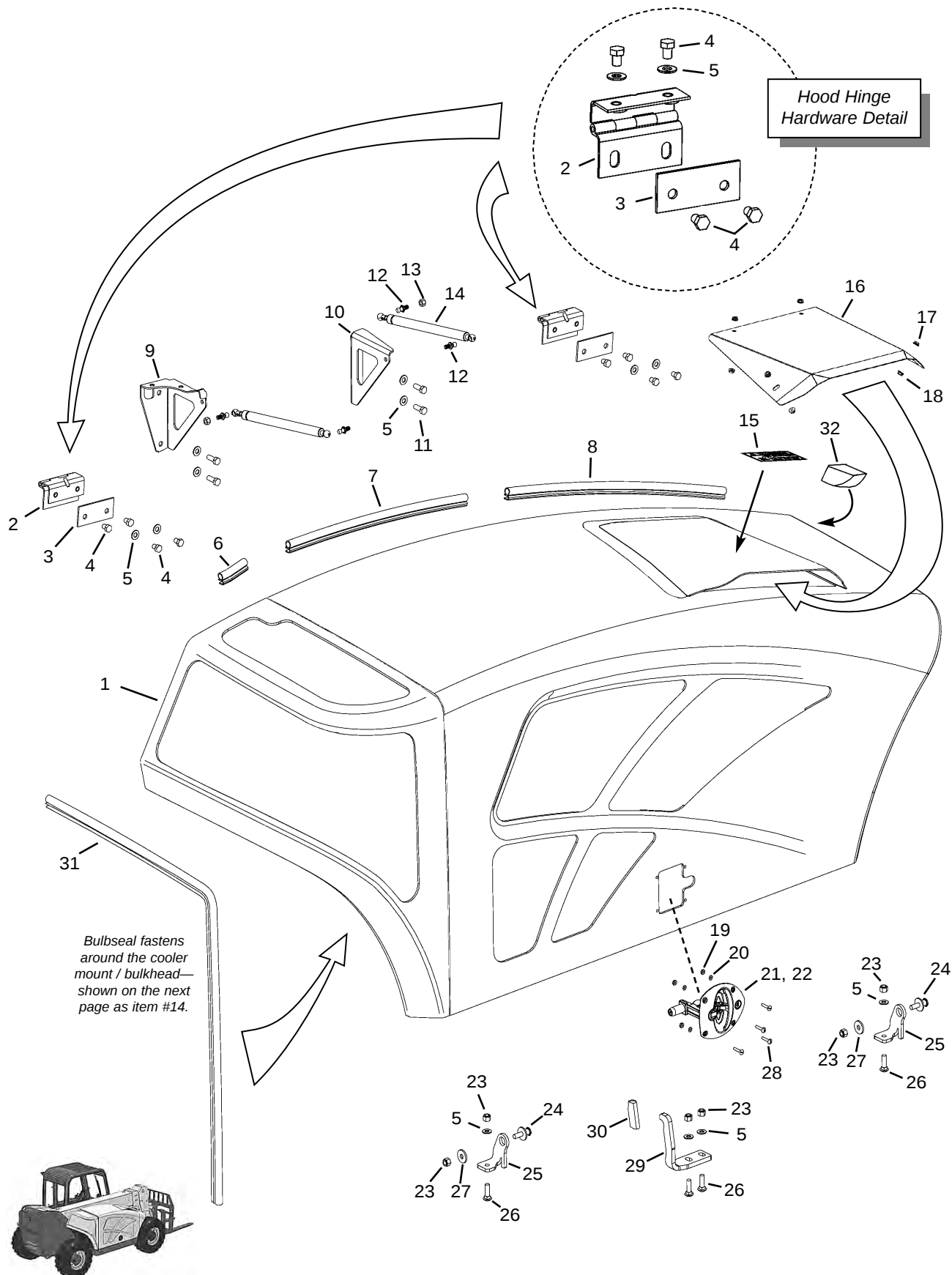
MT 5519 Telescopic Handler



Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	103904	1"-8X2-1/4" GR8 BOLT	2	03	102781	1"-8 CLASS C LOCK NUT	4
02	651151	1" SAE FLAT WASHER.....	8	04	102780	1"-8X3" GR8 BOLT	4



Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	105506	FRONT WINDOW GUARD	1	04	654006	3/8" FLAT WASHER	AR
02	105507	TOP WINDOW GUARD	1	05	067847	3/8" WHIZ NUT	AR
03	650491	3/8"X1-1/4" BOLT	AR				
						-- ITEMS NOT SHOWN --	
				--	654006	3/8" FLAT WASHER	AR

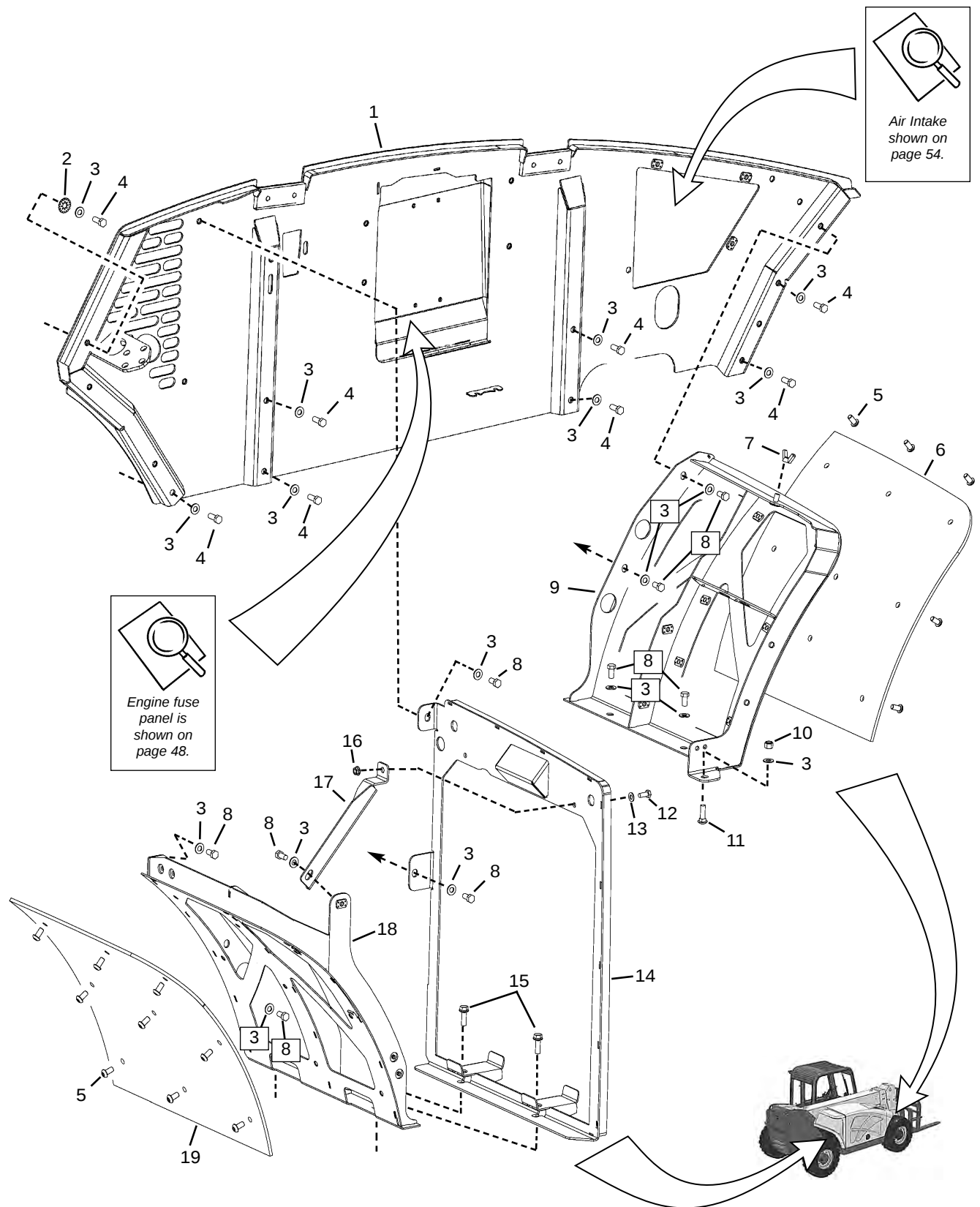


MT 5519 Telescopic Handler

Chassis

Engine Compartment - Hoods

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	50380327	HOOD	1	17	L50051	1/4" FLANGE LOCK NUT	4
02	103932	HINGE	2	18	210-32184	HN FL CLOC 1/4" CZY	4
03	104955	HINGE BACKER	2	19	650550	#10-24 NUT	4
04	650557	3/8"X1/2" BOLT	8	20	650549	LW #10 RZY	4
05	654049	FW 3/8 ANZY	AR	21	104056	LATCH, T-HANDLE	1
06	50380217	BULB SEAL 3.3"	1	22	L99157	KEY ONLY (CH751) (not shown) . PR	
07	50380218	BULB SEAL 20.4"	1	23	067847	HLN INST 3/8 C5ZY	4
08	50380219	BULB SEAL 25.8"	1	24	104416	STRIKER	2
09	50380135	BRACKET	1	25	50380058	STRIKER MOUNT	2
10	211223	BRACKET, GAS SPRING	1	26	650786	CB 3/8" x 1-1/4" C5ZY	4
11	650488	CS 3/8"X3/4"	2	27	088912	FW 13/32 ZY	2
12	L69488	BALL STUD (3/8" thread)	4	28	L514001	#10-24X1" SCREW	4
13	064260	LN INST 5/16"	AR	29	104060	BRACKET, HOOD LATCH	1
14	50380359	GAS SPRING	2	30	104793	SEAL, EDGE 3/8" x 1-1/4"	1
15	L65942	DECAL, HOT SURFACE	1	31	104800	BULB SEAL 48"	1
16	50380360	EXHAUST SHIELD	1	32	50381112	FOAM, COVER SEAL	1

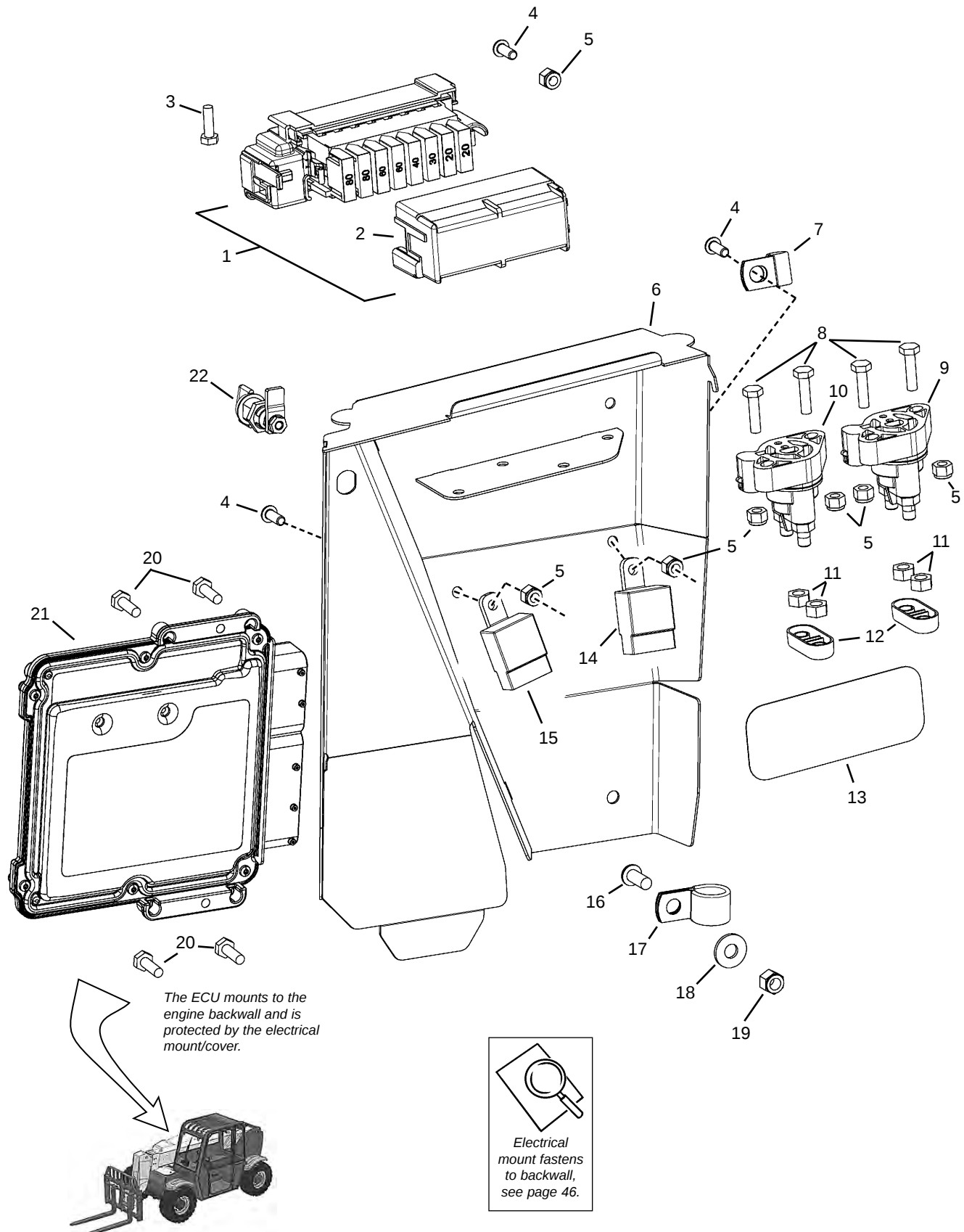


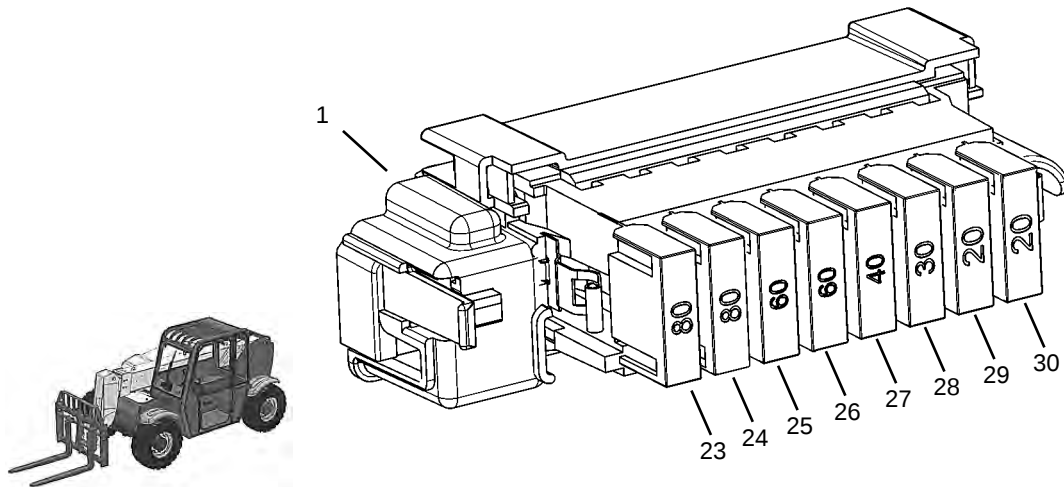
MT 5519 Telescopic Handler

Chassis

Engine Compartment - Front, Rear, and Backwall

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	50380606	BACKWALL, ENGINE COMPART. .	1	10	067847	HLN INST 3/8 CZY	1
02	651087	LW INTERNAL 3/8 AZY	1	11	650786	CB 3/8" x 1-1/4" C5ZY	1
		<i>(used to insure proper grounding)</i>		12	650486	CS 5/16" x 3/4" C5ZY	1
03	654049	FW 3/8 ANZY	AR	13	651561	FW 5/16 HT ZY	1
04	650490	CS 3/8" x 1" C5ZY	AR	14	211043	COOLER MOUNT/BULKHEAD . . .	1
05	L50253	SHCS 3/8"x 3/4"	18	15	076589	CS FL LOCK 3/8"x 1" C5ZY	2
06	103843	WHEEL WELL GUARD, FRONT . .	1	16	210-19470	FLN 5/16".	1
07	653098	WING NUT 3/8 ACZY	1	17	210879	BRACE, RADIATOR/COOLER . . .	1
		<i>(used to secure air cleaner assy.)</i>		18	211270	WHEEL WELL BRACKET, REAR . .	1
08	650488	CS 3/8" x 3/4" C5ZY	AR	19	103844	WHEEL WELL GUARD, REAR . . .	1
09	211269	WHEEL WELL BRACKET, FRONT .	1				





Additional fuses and relays are on page 10.

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	210988	FUSE BLOCK, W/COVER. 1 (does not include fuses)	1	23	242381	MAXI FUSE, 80 AMP 1 (Alternator)	1
02	191268	FUSE BLOCK COVER 1 (included with item 1)	1	24	242381	MAXI FUSE, 80 AMP 1 (Glow Plug)	1
03	651424	CS M6-1x20 C8.8 1	1	25	L500225	MAXI FUSE, 60 AMP 1 (Chassis Power)	1
04	L50202	BHSCS 1/4"x5/8" C SS 3	3	26	L500225	MAXI FUSE, 60 AMP 1 (Starter)	1
05	071401	HLN INST 1/4 CZY 7	7	27	275873	MAXI FUSE, 40 AMP 1 (A/C Evaporator)	1
06	50380609	ELECTRICAL MOUNT/COVER. ... 1	1	28	191331	MAXI FUSE, 30 AMP 1 (A/C Condenser)	1
07	420-1671	CLAMP 0.375" x 0.41"..... 1	1	29	191332	MAXI FUSE, 20 AMP 1 (EGR)	1
08	650007	CS 1/4" x 1" C2 4	4	30	191332	MAXI FUSE, 20 AMP 1 (ECU)	1
09	193856	SOLENOID (Starter) 1	1				
10	193856	SOLENOID (Glow Plug) 1	1				
11	653007	HN 5/16 C2ZY 4	4				
12	195740	CAP (option; not used on all units) . 2	2				
13	50380866	DECAL (non-conductive sticker) ... 1	1				
14	193206	RELAY, 20A (Regen Interlock). 1	1				
15	193206	RELAY, 20A (EGR Valve) 1	1				
16	651640	BHSCS 5/16" x 3/4" C8..... 1	1				
17	136226	CLAMP 0.75" x 0.41"..... 1	1				
18	654004	FW 5/16" AWZY..... 1	1				
19	064260	HLN INST 5/16 CZY 1	1				
20	650512	CS 1/4" x 3/4" C5 4	4				
21 ^a	50250370	ECU ASSEMBLY (SERVICE) 1	1				
22	50380941	LATCH, FUSE PANEL..... 1	1				

a

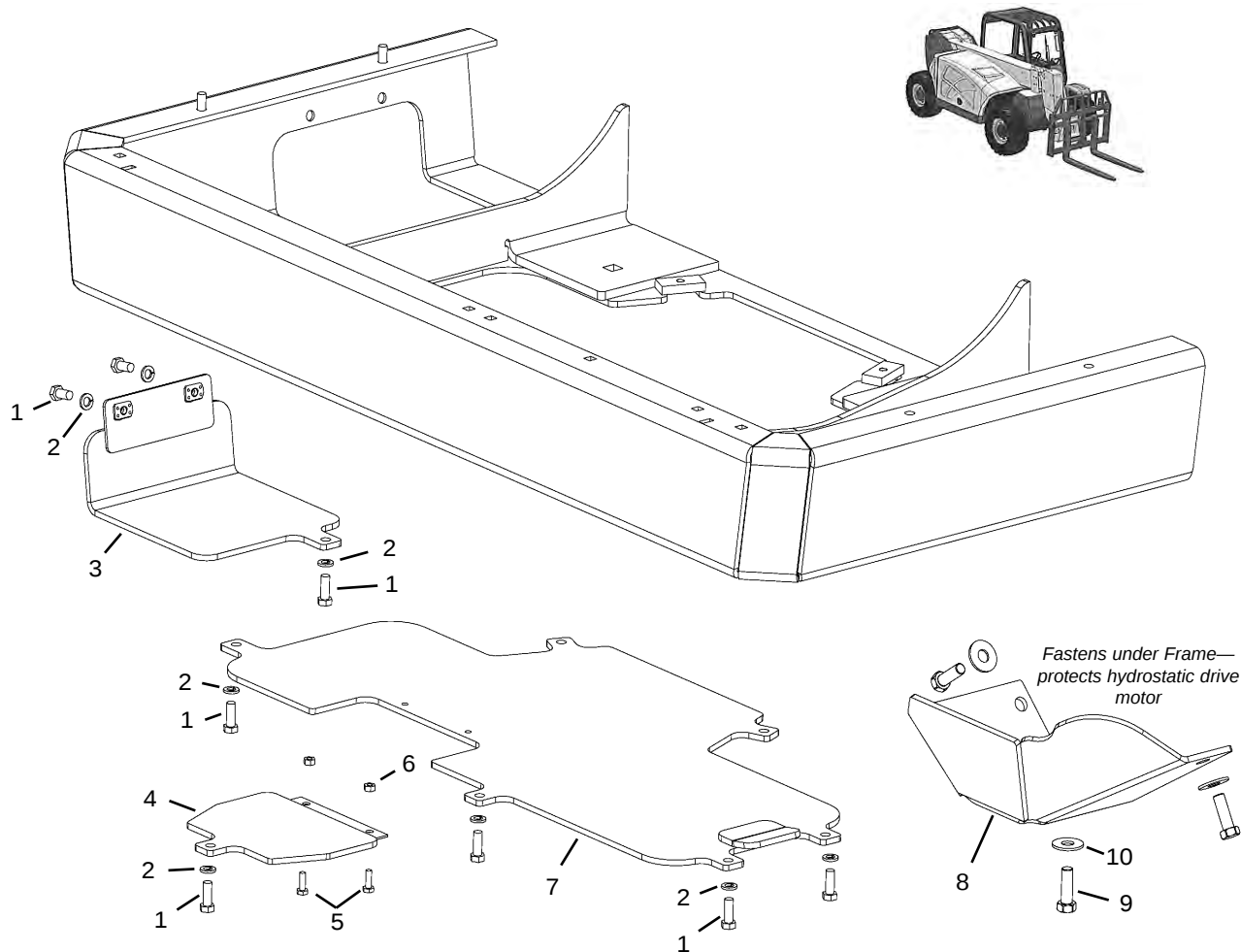


NOTE: The ECU is a special order item that requires programming. Please provide the engine model and engine serial number when placing an order for the ECU. Be aware that due to the programming requirements there may be a delay in obtaining this part.

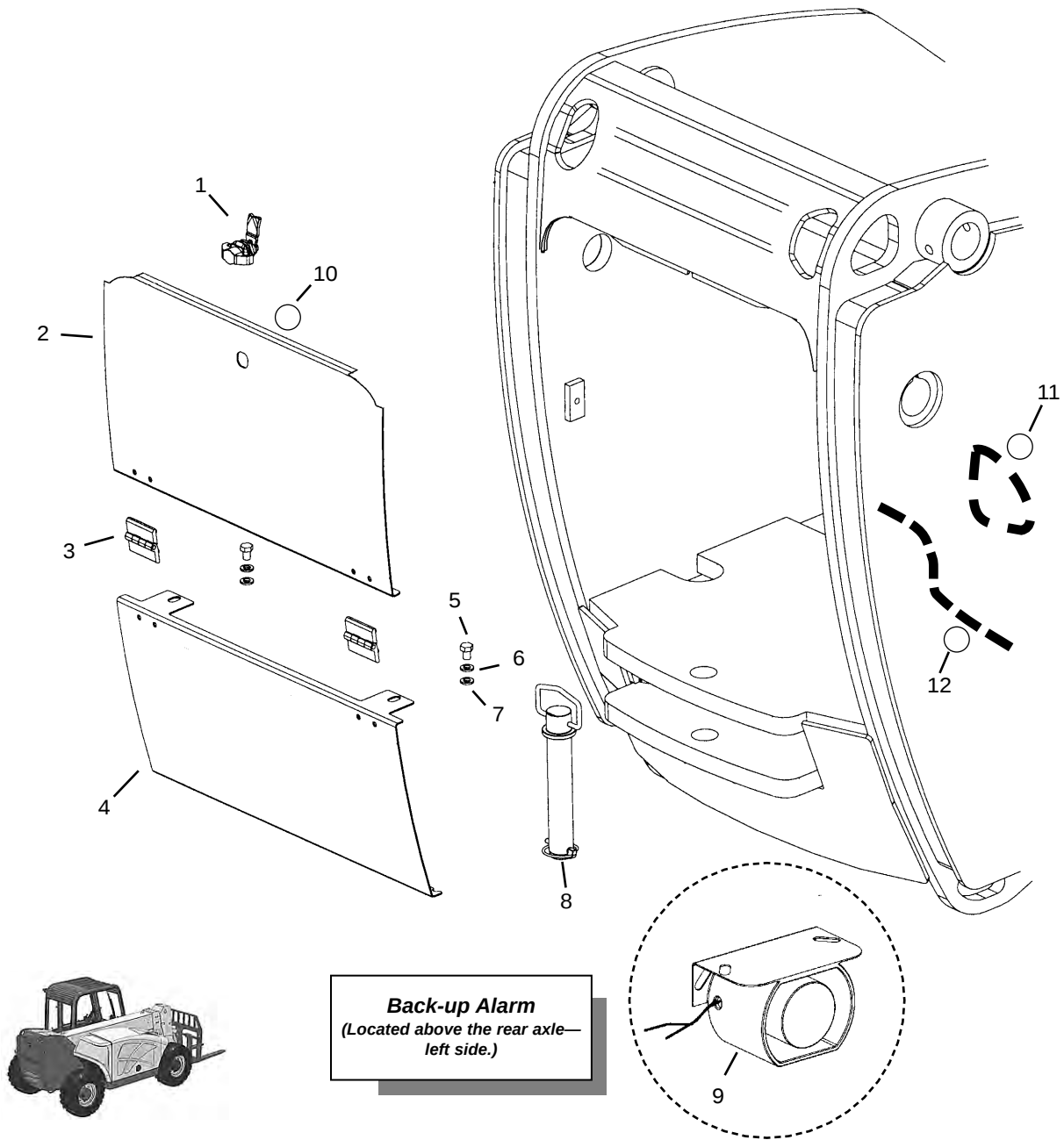
Chassis

Engine Compartment - Belly Pan

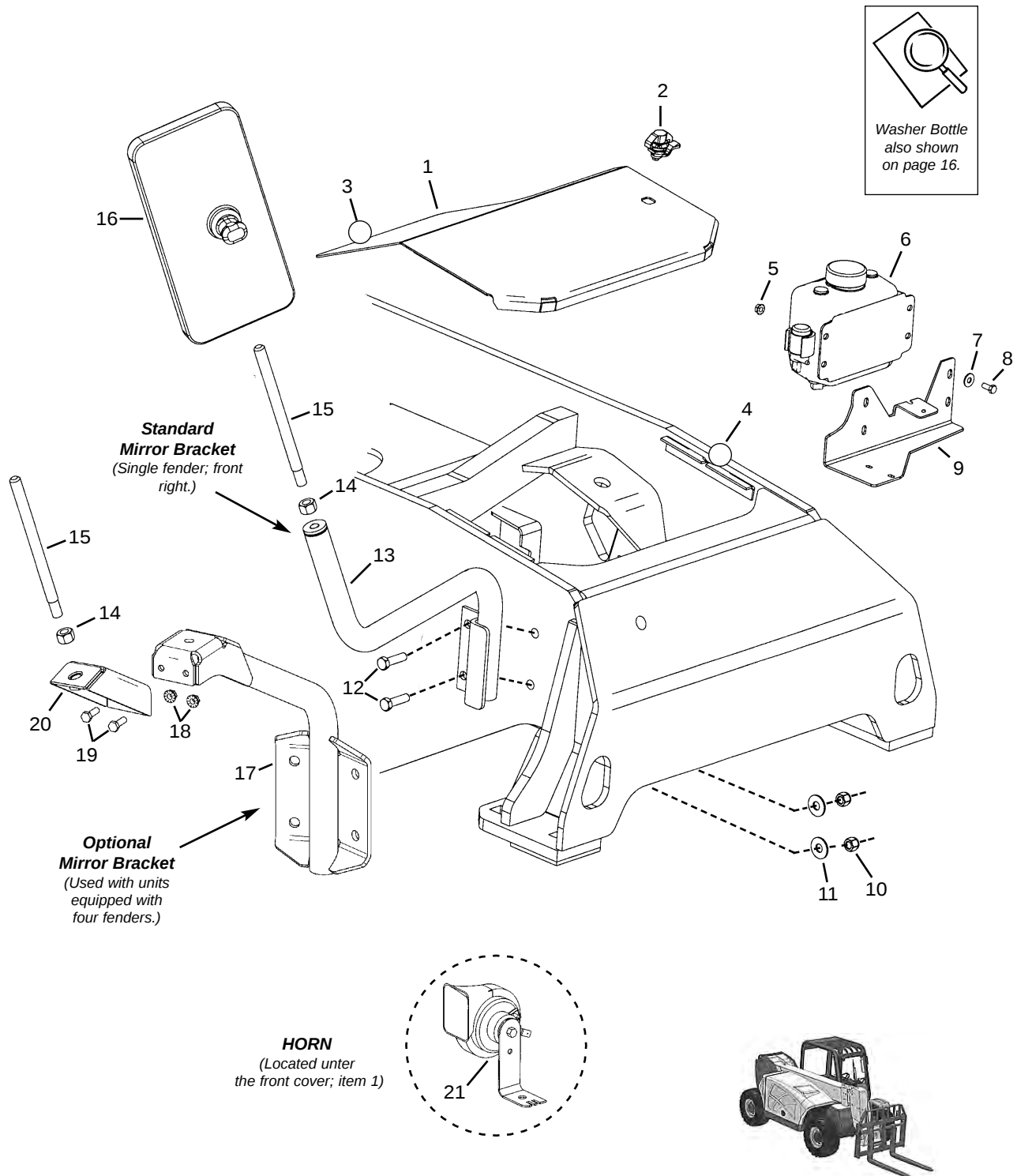
MT 5519 Telescopic Handler



Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	650490	CS 3/8"X1"	AR	06	L50051	1/4" FLANGE LOCK NUT	2
02	654006	FW 3/8"	AR	07	105565	BELLY PAN, ENGINE	1
03	210822	ACCESS, COMPRESSOR	1	08	210514	BELLY PAN, HYDRO. DRIVE	1
04	105567	OIL DRAIN COVER	1	09	L50599	CS 1/2"-13 x 1-1/2"	3
05	650448	1/4"X3/4" BOLT	2	10	654009	FW 1/2"	3



Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	103874	FUEL ACCESS LATCH	1	09	L70200	BACK-UP ALARM	1
02	103870	FUEL TANK ACCESS COVER	1		650485	5/16"X5/8" BOLT	AR
03	103873	HINGE	2		654004	5/16" FLAT WASHER	AR
	651457	6 MM NYLON INSERT NUT	8			(Backup alarm is located on chassis	
	656179	6 MM FLAT WASHER	8			above the rear axle—left side.)	
04	103867	FUEL TANK COVER	1	10	105086	TRIM/EDGE 0.13"X12"	1
05	L50366	3/8"X1/2" BOLT	2			-- HIDDEN FROM VIEW --	
06	654026	3/8" LOCK WASHER	2			(Attaches to frame to protect hydraulic hoses)	
07	654006	3/8" FLAT WASHER	2				
08	104312	TOW PIN	1	11	104794	TRIM 3/4"X18.5"	1
				12	104796	TRIM 3/4"X14.5"	1



MT 5519 Telescopic Handler

Chassis

Front Cover, Right-Side Mirror, and Washer Bottle

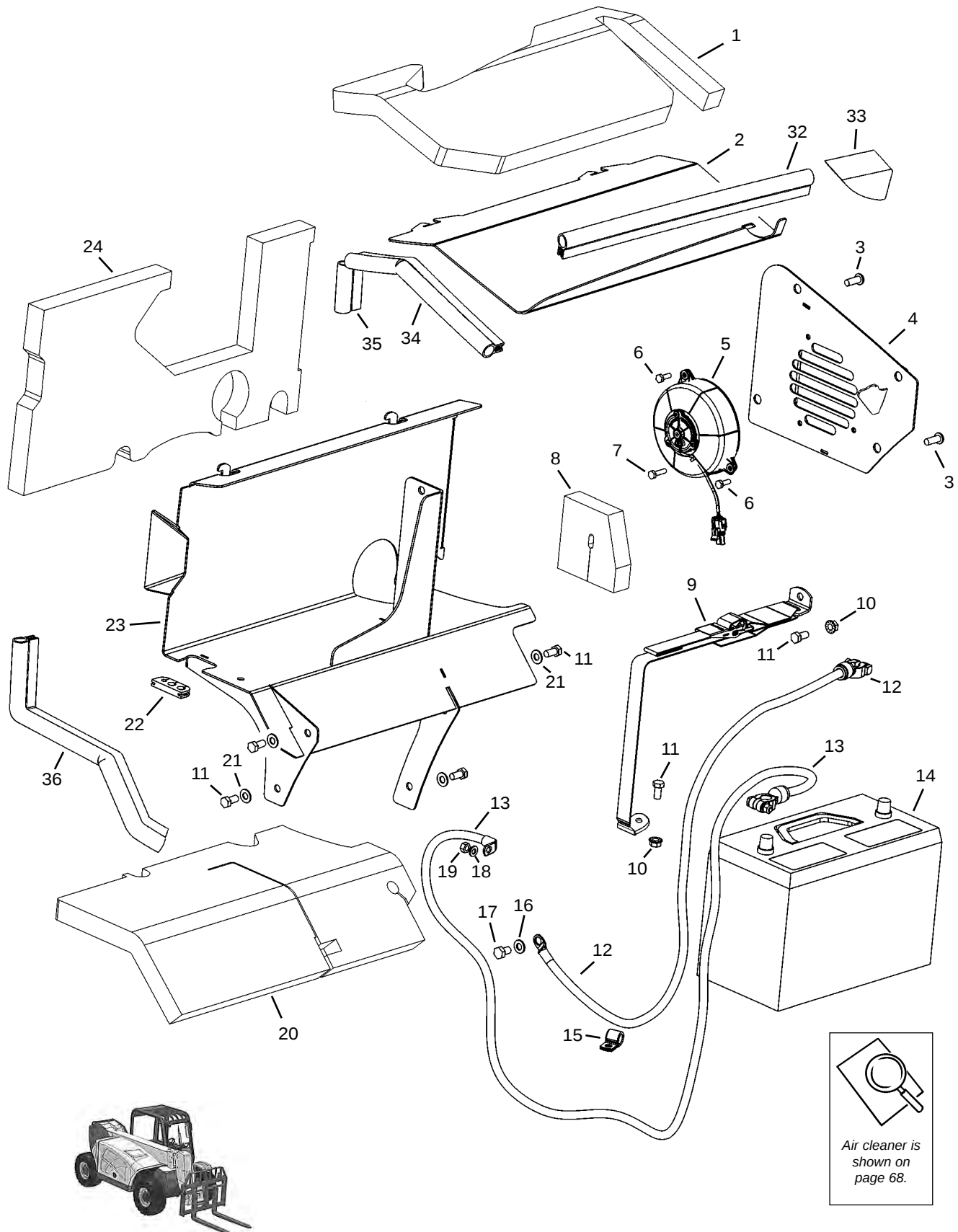
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	104694	FRONT COVER, FRAME	1	19 ^c	650487	CS 5/16 x 1" C5ZY	2
02	104698	LATCH COVER	1	18 ^c	210-19470	LN FL SERR 5/16" CZY	2
03	105084	TRIM/EDGE 10"	1	20 ^c	50380907	MOUNT, MIRROR	1
04	105083	TRIM/EDGE 2"	4	21	L41847	HORN, 12VDC	1
05	210-19470	LN FL SERR 5/16 CZY	AR		650557	3/8"X1/2" BOLT	1
06 ^a	101495	WASHER BOTTLE, w/PUMPS	1		654006	3/8" FLAT WASHER	1
	243063	CAP, WASHER BOTTLE (<i>included</i>)	1				
07 ^a	654004	5/16" FLAT WASHER	AR				
08 ^a	650486	5/16"X3/4" BOLT	AR				
09 ^a	104865	MOUNT, WASHER BOTTLE	1	--	102925	HARNESS, WASHER BOTTLE . . .	1
10	L520019	1/2" NYLON INSERT NUT	2	--	103013	TUBING, WASHER (15-1/2 FT.) . .	1
11	L50151	1/2" FLAT WASHER	AR				
12	L50286	1/2"X1-3/4" BOLT	2				
13 ^b	104668	MIRROR MOUNT, RH.	1	a		Used on units with a cab enclosure option.	
14	L50081	5/8" NUT	1	b		Standard - used when unit is not equipped with the four fender option.	
15	L70345	BAR, MIRROR END	1	c		Option - used when unit is equipped with the four fender option.	
16	L70417	MIRROR	1				
17 ^c	50380780	BRACKET	1				

-- ITEMS NOT SHOWN --

Chassis

Battery and Air Intake Group

MT 5519 Telescopic Handler



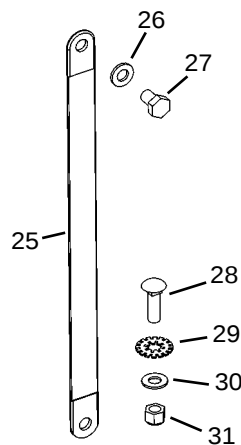
MT 5519 Telescopic Handler

Chassis

Battery and Air Intake Group

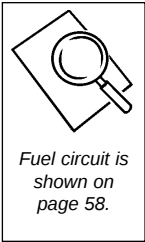
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	50380858	THERMAL MAT, TOP	1	20	50380860	THERMAL MAT, BOTTOM	1
02	50380760	LID, AIR BOX TOP	1	21	654049	FW 3/8" ANZY	4
03	50657004	BHSCS 3/8" x 1" C8	3	22	50380179	GROMMET, CABLE SEAL	1
04	50380766	AIR INLET PANEL	1	23	50380758	AIR BOX	1
05	50380616	FAN, ELECTRIC PULLER	1	24	50380859	THERMAL MAT, SIDE	1
06	650512	CS 1/4" x 3/4"	2	25	L630004	STRAP, GRND 4GA 14"	1
07	650007	CS 1/4" x 1" C2	1	26	656133	FW M10 ZY DIN125	2
08	50380861	THERMAL MAT, FIREWALL	1	27	656090	CS M10-1.5x16 C8.8 ZY	2
09	50380181	STRAP, BATTERY HOLD-DOWN ..	1	28	650786	CB 3/8X1-1/4 C5ZY	1
10	090666	HN FL SLOC 3/8 CZY	2	29	651087	LW INTERNAL 3/8" AZY	1
11	650488	CS 3/8 x 3/4 C5ZY	6	30	654049	FW 3/8 ANZY	1
12	50380739	BATTERY CABLE, NEG.	1	31	067847	HLN INST 3/8 CZY	1
13	50380738	BATTERY CABLE, POS.	1	32	50381108	SEAL, BULB TOP 0.72" x 13.7" ...	1
14	NSS	BATTERY, GR 31 BCI (950 CCA) ..	1	33	50381112	FOAM, COVER SEAL	1
15	128007	CLAMP, VINYL 5/8"	1			(attaches to underside of hood)	
16	656133	FW M10 ZY DIN125	1	34	50381109	SEAL, BULB TOP 0.72" x 10.2" ...	1
17	656090	CS M10-1.5x16 C8.8 ZY	1	35	50381110	SEAL, BULB TOP 0.72" x 2.25" ...	1
18	656111	FW M8 ZY DIN125	1	36	50381111	SEAL, BULB TOP 0.72" x 15.2" ...	1
19	656048	HN M8-1.25 C8 ZY	1				

Ground Strap
(Attaches from engine
flywheel housing to chassis.)



Fuel Tank

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

Chassis

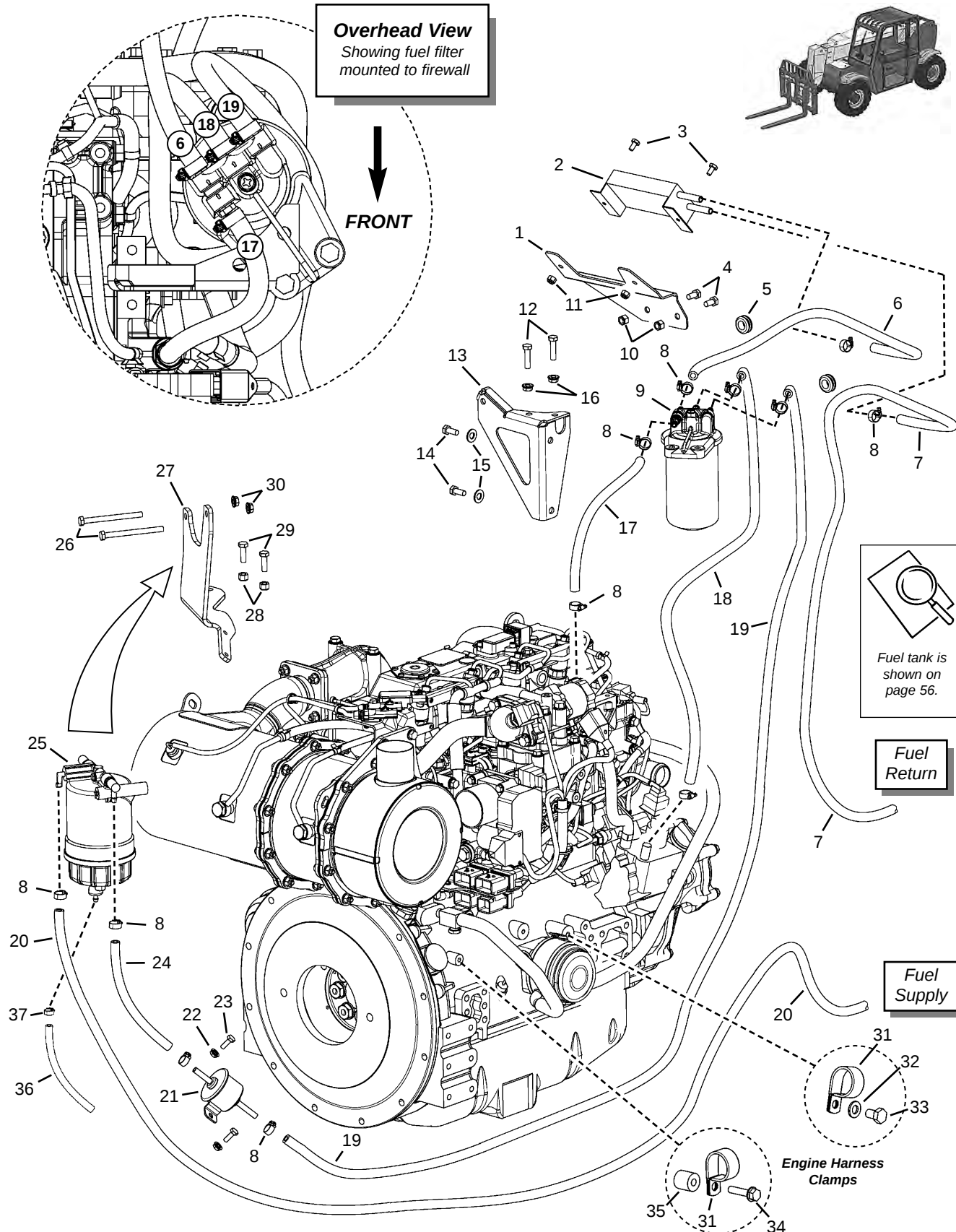
Fuel Tank

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	210722	CAP, FUEL (<i>vented</i>)	1	09	654006	FW 3/8 AWZY	8
02	50657037	BHSCS #10-24x3.8" C8 OCG	3	10	50380689	ST HB05-MORB08	2
03	50380842	TETHER, FUEL CAP.	1	11	50381006	HOSE, 5/16" x110" (<i>fuel return</i>) . . .	1
04	50380804	STRAINER, FUEL TANK.	1	12	50381003	HOSE, 5/16" x 93" (<i>fuel supply</i>) . . .	1
05	650387	RHMS #10-32 x 1/2"	5	13	L43221	PLUG, 1/2-14 MAGNETIC BI	1
06 ^a	103913	SENDER, FUEL LEVEL	1	14	50380807	FUEL TANK	1
07	L41854	GASKET, FUEL LEVEL SENDER. . .	1				
08	650557	CS 3/8" x 1/2" C5ZY	4	a	<i>Includes gasket item #2</i>		



Overhead View
Showing fuel filter
mounted to firewall

FRONT



MT 5519 Telescopic Handler

Engine Fuel Circuit

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	50380993	BRACKET, FUEL COOLER.....	1	23	L50051	FLN 1/4"-20 ZP	2
02	50351523	COOLER, FUEL	1	24	50381004	HOSE, FUEL 5/16" x 10".....	1
03	650542	CS 1/4" x 1/2" C5ZY	2	25 ^b	50351686	FUEL/WATER SEPARATOR ASY... 1	
04	650485	CS 5/16" x 5/8" C5ZY	2		50352550	WATER SEP/FUEL FILTER ONLY . 1	
05	103192	GROMMET 0.56 x 0.188 x 0.81 ...	2		50250362	O-RING	1
06	50381005	HOSE, FUEL 5/16" x 30".....	1	26	650732	CS 5/16" x 3-3/4" C5ZY.....	2
07	50381006	HOSE, FUEL 5/16" x 110" (<i>return</i>) . 1		27	50380665	BRACKET, FILTER MOUNT	1
08	062023	CLAMP, HOSE #05 M	AR	28	064260	HLN INST 5/16 CZY	2
09 ^a	50250359	FUEL FILTER ASSEMBLY	1	29	650487	CS 5/16" x 1" C5ZY.....	2
	50352551	FUEL FILTER ONLY	1	30	210-19470	LN FL SERR 5/16 CZY	2
10	064260	HLN INST 5/16" CZY.....	2	31	095619	CLAMP 1.25" x 0.41".....	2
11	071401	HLN INST 1/4" CZY.....	2	32	656133	FW M10 ZY.....	1
12	650545	CS 5/16"x1-1/4" C5ZY.....	2	33	656090	CS M10-1.5x16 C8.8 ZY.....	1
13	50380135	BRACKET, FUEL FILTER/HOOD ..	1	34	651720	CS FL M8-1.25x35 8.8 ZY.....	1
14	650488	CS 3/8"x3/4" C5ZY	2	35	193572	SPACER	1
15	654006	FW 3/8" AWZY.....	2	36	274735	HOSE, FUEL 1/4" x 9" (<i>drain</i>)	1
16	210-19470	LN FL SERR 5/16 CZY	2	37	062023	CLAMP, HOSE #05.....	1
17	50352010	HOSE, FUEL 5/16" x 12".....	1				
18	50381007	HOSE, FUEL 3/8" x 23".....	1				
19	50381176	HOSE, FUEL 5/16" x 64".....	1				
20	50381003	HOSE, FUEL 5/16" x 93" (<i>supply</i>).. 1					
21	186308	FUEL PUMP, ELECTRIC.....	1				
22	650448	CS 1/4"x3/4" C5ZY	2				

a Includes filter mounting head and spin-on fuel filter.

b Refer to page 4 for more information.

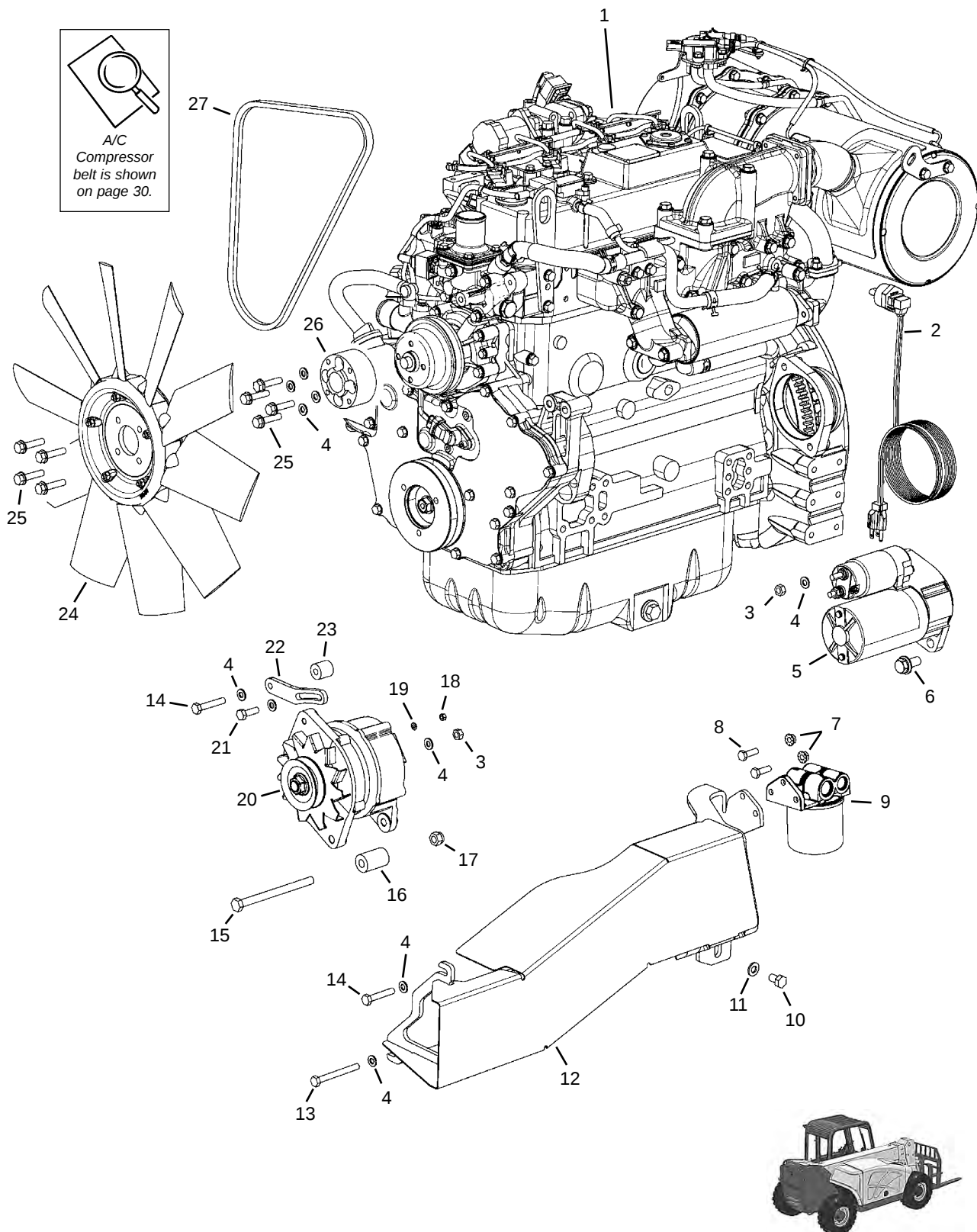


NOTE: Refer to engine parts manual 50960075 for more information regarding the fuel system; including the fuel pressure pump, injectors, fuel lines, and other components.

Engine

MT 5519 Telescopic Handler

External Components—Fan, Alternator, Starter, and Block Heater



MT 5519 Telescopic Handler

Engine

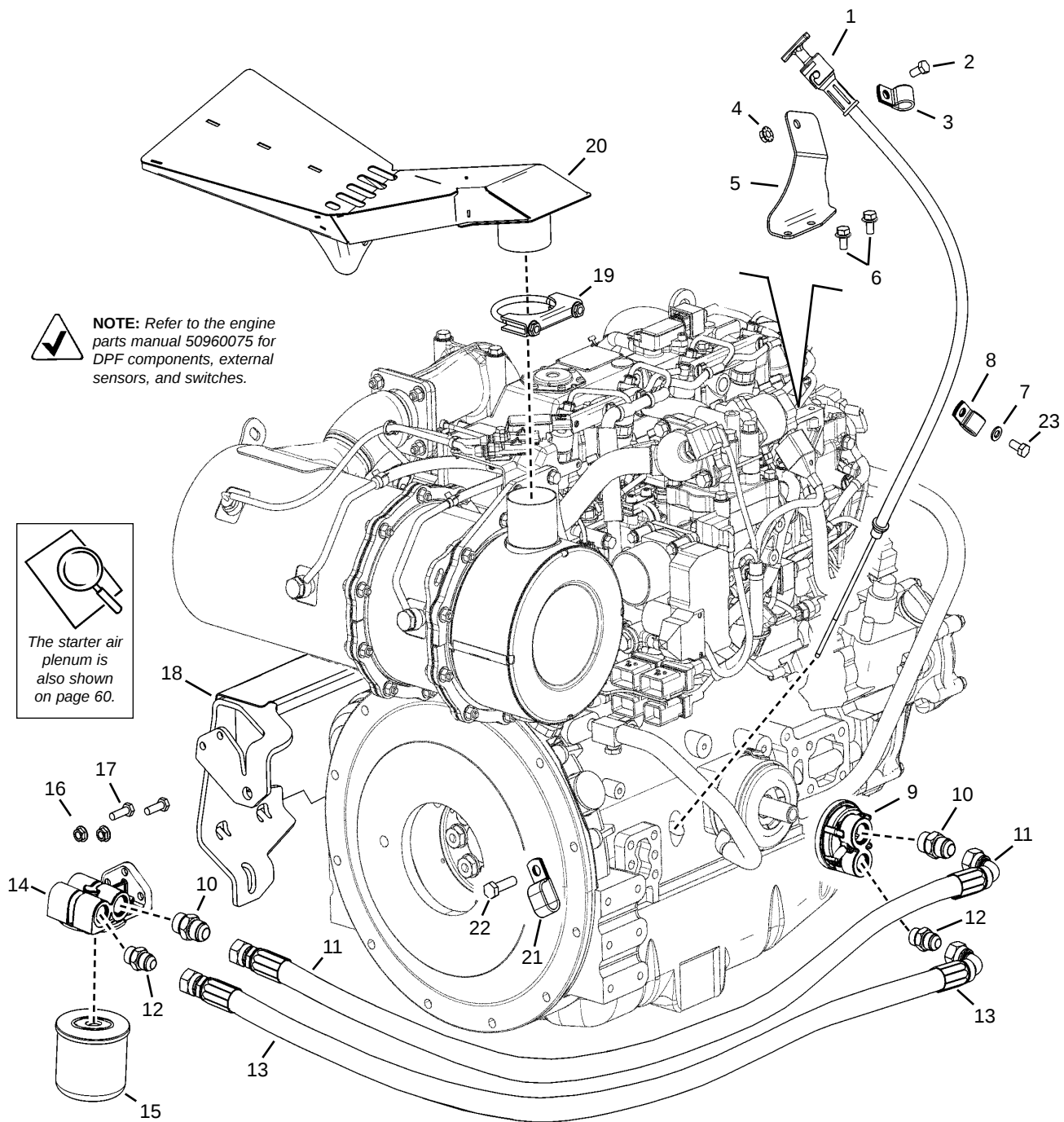
External Components—Fan, Alternator, Starter, and Block Heater

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01 ^a	50380487	ENGINE, YANMAR	1	16	193790	SPACER, ALTERNATOR.	1
		(Model 4TNV98C-NGT)		17	651448	LN INST M10-1.5 C8 ZY	1
02	121480	BLOCK HEATER, ENGINE (option).1		18	656100	HN M5-0.8 C8 ZY DIN934.	1
03	656048	HN M8-1.25 C8 ZY DIN934.	1	19	651809	FW M5 ZY DIN125	1
04	656111	FW M8 ZY DIN125.	AR	20	194165	ALTERNATOR, 95AMP	1
05	194316	STARTER, 12V 3KW.	1	21	656105	CS M8-1.25x25 C8.8 ZY	1
06	188748	CS M12 x 25	2	22	210897	ADJUSTER, ALTERNATOR	1
07	210-19470	FLN 5/16".	201	23	193572	SPACER, ALTERNATOR.	1
08	650487	CS 5/16 x 1 C5ZY	1	24	50380056	FAN, SUCKER 19" 3H.	1
09	193971	REMOTE FILTER HEAD (only).	1	25	651720	CS FL M8-1.25x35 C8.8	8
	195568	FILTER, ENGINE OIL (only)	1	26	105601	SPACER, FAN.	1
10	656090	CS M10-1.5x16 C8.8 ZY	1	27	210861	V-BELT 42"	1
11	656133	FW M10 ZY	1				
12	50381000	STARTER AIR PLENUM	1				
13	651617	CS M8-1.25x75 C8.8.	1				
14	656154	CS M8-1.25x45 C8.8 DIN931	2				
15	656173	CS M10-1.5x130 C8.8 ZY	1				

a Includes items 5 and 6; does not include any other items shown in the illustration—they must be ordered separately.



NOTE: Refer to engine parts manual 50960075 for more information including sensors, switches, DPF components, and additional parts.



MT 5519 Telescopic Handler

Engine

External Components—Oil Filter, Dipstick, and Exhaust

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	244465	DIPSTICK ASSEMBLY	1	12	054626	ST MJ08-MORB08	2
02	650485	CS 5/16" x 5/8" C5ZY	1	13	50380248	HOSE, REMOTE OIL -8	1
03	097859	CLAMP, VINYL 0.69 x 0.41	1	14	193971	FILTER MOUNT (<i>head</i>)	1
04	210-19470	FLN 5/16"	1	15	195568	FILTER, ENGINE OIL	1
05	50380995	BRACKET, DIPSTICK MOUNT	1	16	210-19470	FLN 5/16"	2
06	176652	CS FLH M8-1.25x12 8.8 ZY	2	17	650487	CS 5/16"x1" C5ZY	2
07	656111	FW M8 ZY DIN125	AR	18	50381000	AIR PLENUM	1
08 ^a	128007	CLAMP, VINYL 5/8"x7/16"	2	19	127428	CLAMP, MUFFLER 2-1/2"	1
09	194068	OIL FILTER ADAPTER	1	20	50380654	EXHAUST OUTLET	1
	191651	O-RING 2-1/2" x 1/8" (<i>not shown</i>)	1	21	194166	CLAMP, VINYL 0.62 x 0.44	1
10	072580	ST MJ10-MORB10	2	22 ^a	656009	CS M10-1.5x35 ZY	1
11	50380247	HOSE, REMOTE OIL -10	1	23	656093	CS M8-1.25x16 C8.8 ZY DIN933 . AR	

^a Used to retain wire harness.

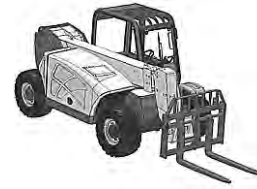


NOTE: Refer to engine parts manual 50960075 for more information including sensors, switches, DPF components, and additional parts.

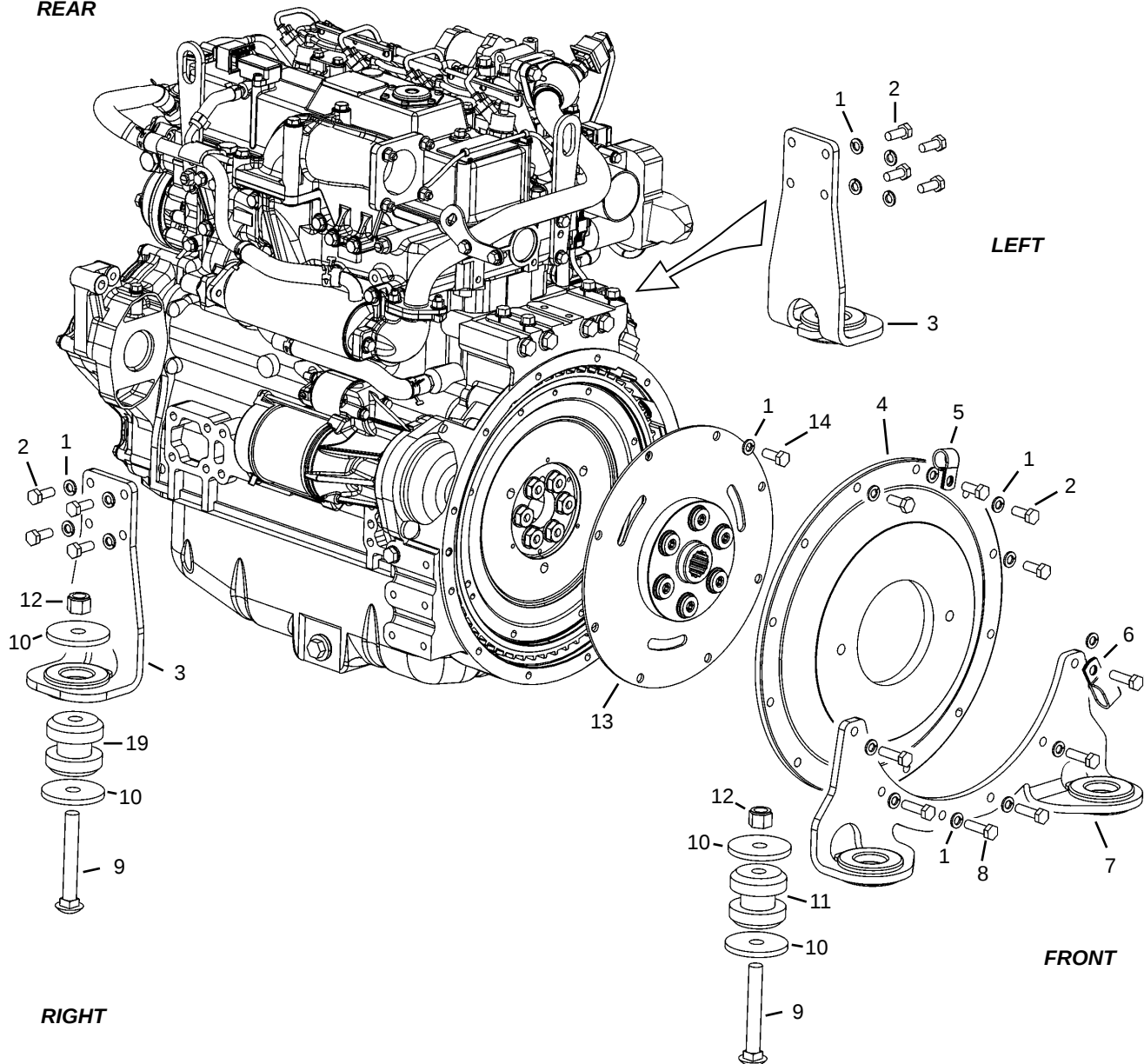
Engine

Engine Mounts and Flex Plate

MT 5519 Telescopic Handler



REAR



MT 5519 Telescopic Handler

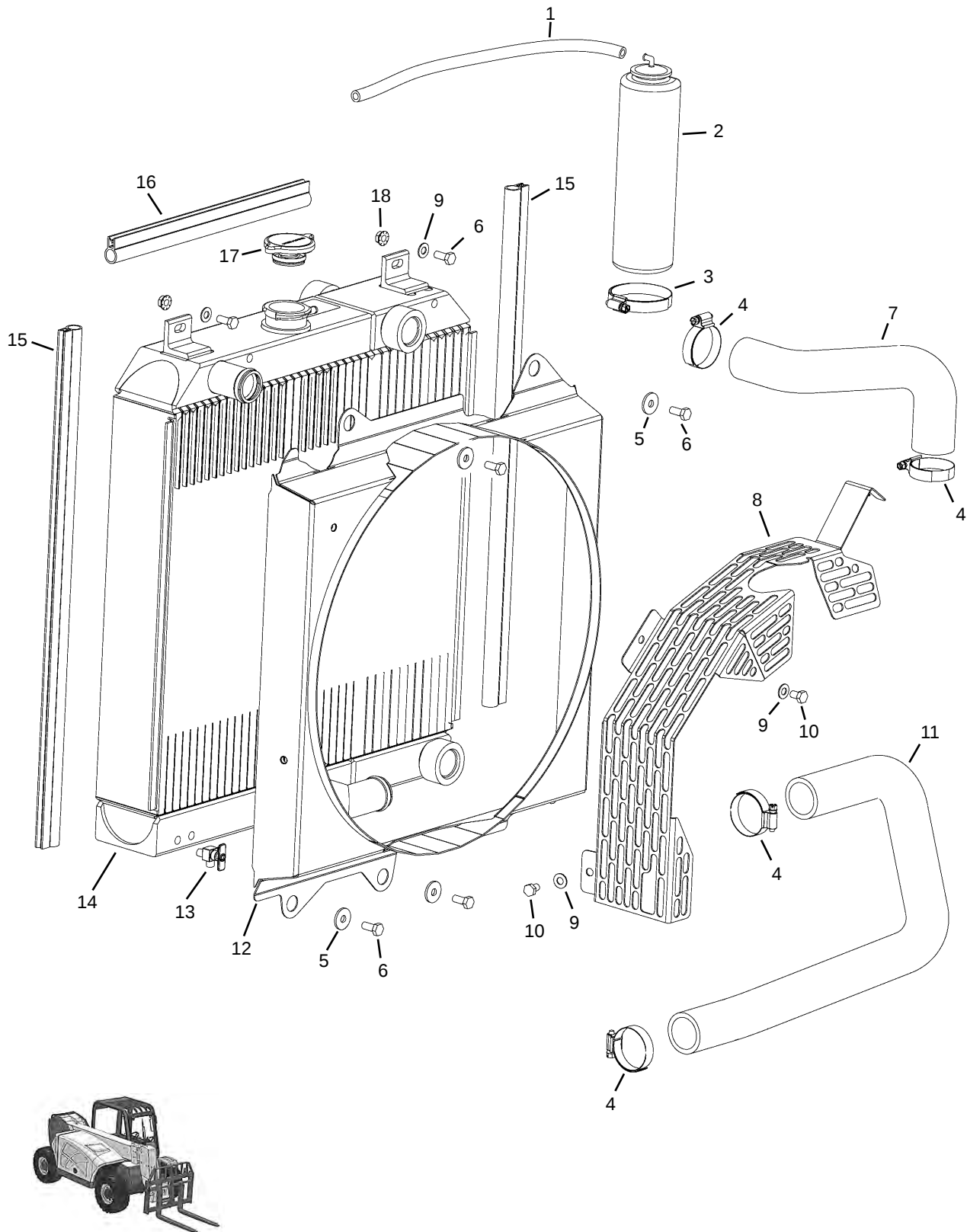
Engine

Engine Mounts and Flex Plate

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	656103	M10 LOCK WASHER	28	08	656009	M10-1.5X35 C8.8 BOLT	6
02	656007	M10-1.5X25 C8.8 BOLT	12	09	651656	5/8"X4-1/2" CARRIAGE BOLT.	4
03	210869	MOUNT, ENGINE (REAR).	2	10	135427	WASHER, SNUBBING	8
04	105521	ADAPTER PLATE	1	11	189640	ISOLATOR (FRONT).	2
05	136226	CLAMP, VINYL 3/4"	1	12	067823	HLN INST 5/8" CZY.	4
06	194166	CLAMP, VINYL 5/8"	1	13	105520	FLEX PLATE	1
07	210862	MOUNT, ENGINE (FRONT)	1	14	656006	M10-1.5X20 C8.8 BOLT	8



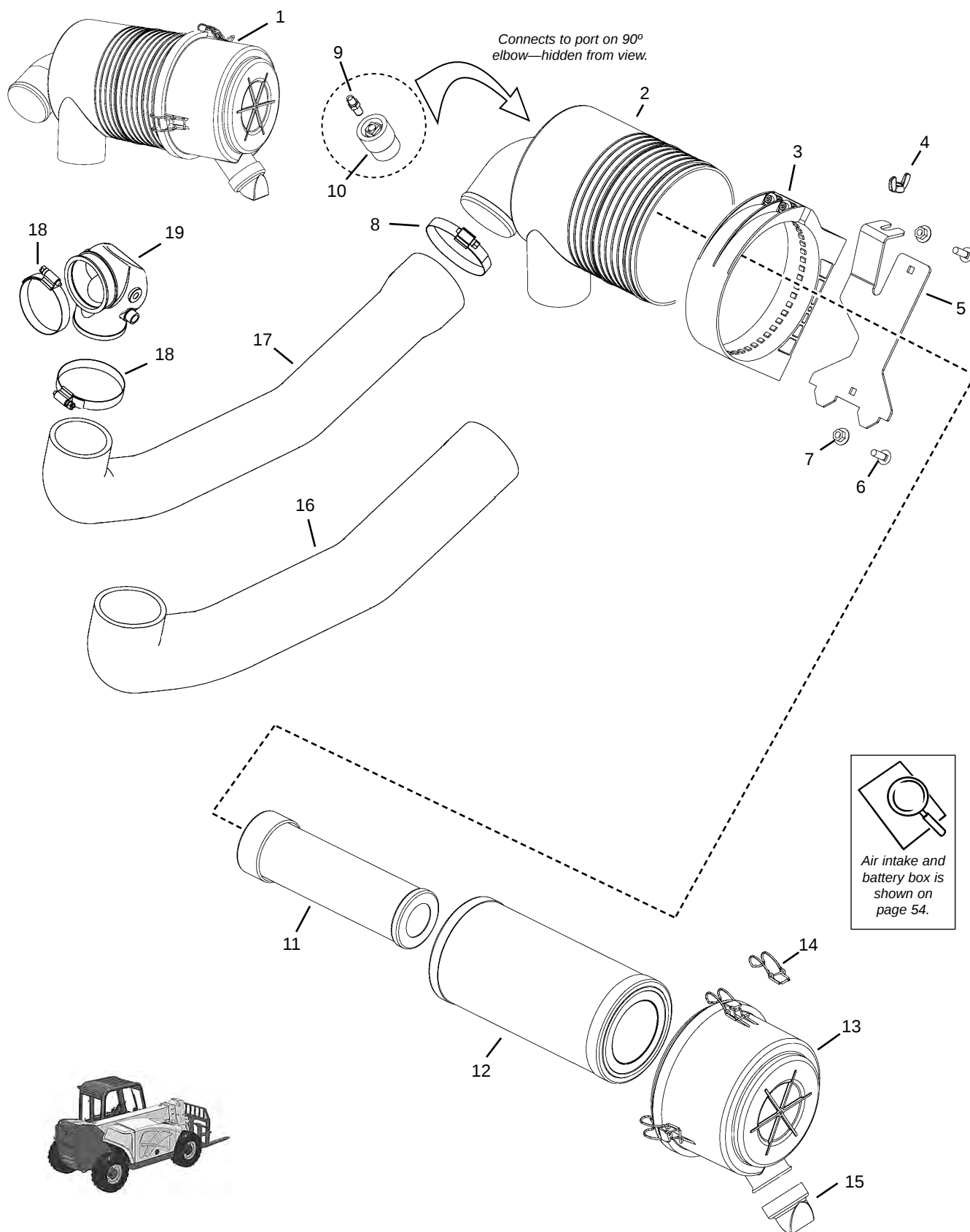
NOTE: Refer to engine parts manual 50960075 for more information including the flywheel, seals, and other engine components.



MT 5519 Telescopic Handler

Engine Radiator

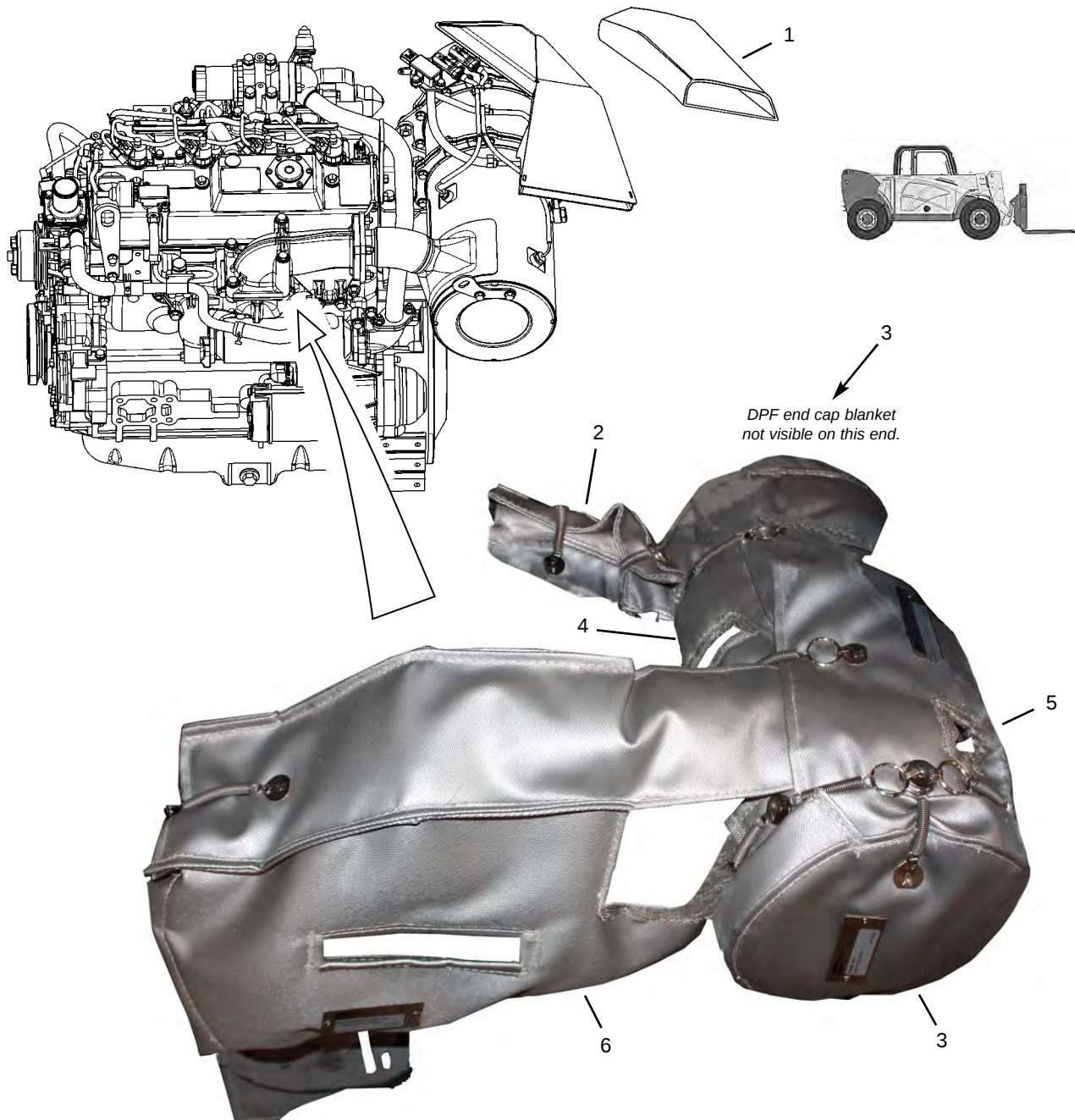
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	081841	HOSE, 5/16" x 16"	1	10	650484	CS 5/16" x 1/2" C5ZY	2
02	190845	BOTTLE, OVERFLOW	1	11	210886	HOSE, RADIATOR (<i>lower</i>)	1
03	187581	CLAMP, HOSE #44	1	12	211301	FAN SHROUD	1
04	061946	CLAMP, HOSE #24	4	13	50220154	DRAIN, 1/4" NPT 90°.	1
05	065538	FW 11/32 ZY	4	14	211194	RADIATOR/COOLER ASSY.	1
06	650486	CS 5/16" x 3/4" C5ZY	6	15	50380215	BULB-SEAL 0.72 x 24-3/4"	2
07	210885	HOSE, RADIATOR (<i>upper</i>)	1	16	50380216	BULB-SEAL 0.72 x 13-7/16"	1
08	211056	FAN GUARD	1	17	50220155	RADIATOR CAP, 14 LBS.	1
09	654004	FW 5/16"	4	18	210-19470	FLANGE LOCK NUT 5/16"-18	2



MT 5519 Telescopic Handler

Engine Air Cleaner Group

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	103594	AIR CLEANER ASSEMBLY. 1 <i>(includes items 2 and 11-15; does not include item #3)</i>		10	096252	AIR RESTRICTOR INDICATOR . . . 1	
02	NSS	HOUSING 1		11	104047	PRIMARY AIR FILTER 1	
03	103595	CLAMP, AIR CLEANER MOUNT. . . 1		12	104046	SECONDARY AIR FILTER 1	
04	653098	WING NUT 3/8-16 ACZY. 1		13	NSS	END CAP <i>(includes item #14)</i> 1	
05	211225	BRACKET, AIR CLEANER 1		14	L99933	LATCH <i>(included with #13)</i> 3	
06	651065	CB SN 5/16" x 1" C5ZY. 2		15	420-35019	EVACUATOR VALVE. 1	
07	650518	HN LG FL 5/16 C2ZY 2		16	50380773	BLANKET, AIR INTAKE HOSE 1	
08	087849	CLAMP, HOSE #52 1		17	50380605	HOSE, AIR INTAKE. 1	
09	104235	COUPLING, AIR RESTRICTOR . . . 1		18	L66877	CLAMP, HOSE (#44). 1	
				19	50380604	ELBOW, AIR INTAKE 2-1/2" 1	



MT 5519 Telescopic Handler

Engine Heat Insulation

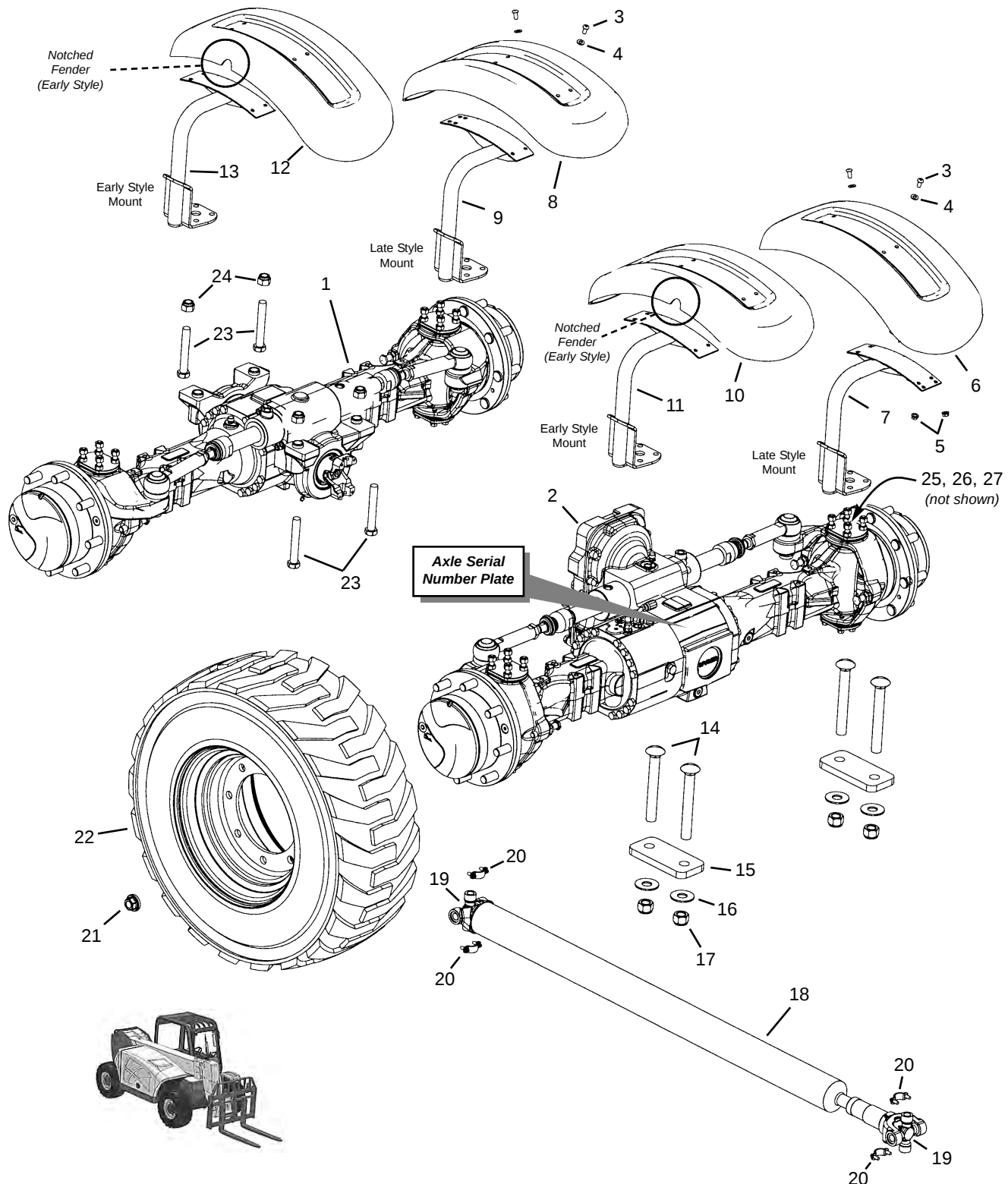
Item No.	Part No.	Description	Qty. Req.
01	50380969	BLANKET, EXHAUST OUTLET . . .	1
02	50380968	BLANKET, EGR PIPE	1
03	50380967	BLANKET, DPF END CAP	2
04	50380966	BLANKET, DPF INNER	1
05	50380965	BLANKET, DPF OUTER	1
06	50380964	BLANKET, EXHAUST MANIFOLD .	1

Axles MT

Mounts, Wheels, Fenders, and Driveshaft

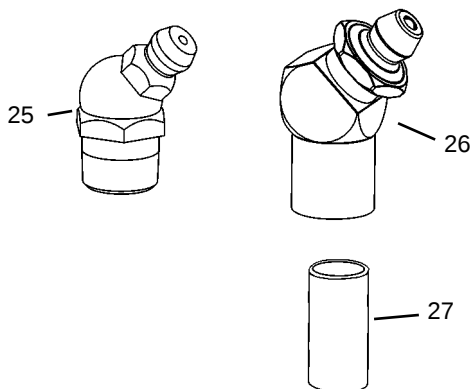
MT 5519 Telescopic Handler

Mounts, Wheels, Fenders, and Driveshaft



Mounts, Wheels, Fenders, and Driveshaft

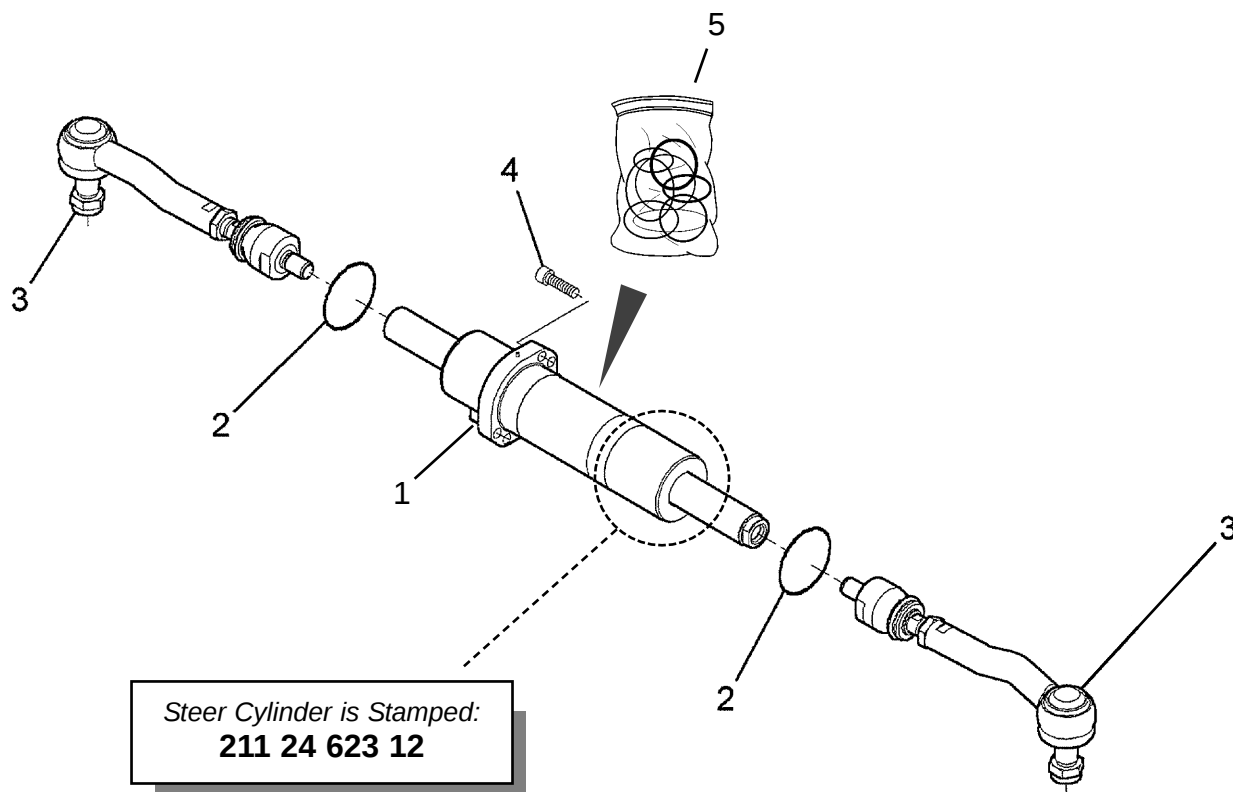
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	103917	AXLE, REAR (221/83)	1	22 ^g	50380344	12X16.5 SOLID TIRE/WHEEL SET	4
02	103916	AXLE, FRONT (603/211/69)	1	23	651543	M20-2.5X130 BOLT	4
03	L50253	3/8"X3/4" BUTTON HD BOLT	AR	24	L50201	M20-2.5 LOCK NUT	4
04	654006	3/8" FLAT WASHER	AR	25	L10466	ZERK, 1/8"NPTM 45°. (standard) . .	4
05	090666	3/8" FLANGE LOCK NUT	AR	26 ^h	104745	ZERK, 1/8"NPTF 45°	AR
06 ^a	104074	FENDER w/o NOTCH (late style) . .	1	27 ^h	660068	NIPPLE/CLOSE PIPE 1/8"	AR
07 ^{bc}	50380988	FENDER MOUNT Standard (left front)	1				
		Four-Fender Option (LF/RR)	2	a	Late-style fender is paired with the late-style fender mount and is identified by the lack of a "notch" in the side of the fender. Standard machine is equipped with one fender on the front left side.		
08 ^c	104074	FENDER w/o NOTCH (late style) Four-Fender Option	3	b	Late-style fender mount is paired with the late-style fender (identified by the lack of a "notch" in the side of the fender). Standard machine is equipped with one fender on the front left side.		
09 ^c	50380989	FENDER MOUNT (RF/LR) Four-Fender Option	2	c	Late-style machines with the four-fender option use two PN 50380989 fender mounts, two PN 50380988 fender mounts, and four PN 104074 fenders		
10 ^d	104682	FENDER, FRONT w/NOTCH	1	d	Early-style fender is paired with the early-style fender mount (early-style fender has a notch in the side). Standard early-style machine is equipped with one fender on the front left side.		
11 ^e	104075	FENDER MOUNT (early-style) Standard (fender with notch)	1	e	Fender mount is used with the early-style left front fender. In addition, early-style machines were also offered with an optional single fender on the left rear. The early-style rear fender uses the same fender mount; however it uses a different fender PN 104683 (item 12).		
12 ^f	104683	FENDER, REAR (early-style)	1	f	Optional single rear fender (left side) used on early-style machines (fender has a notch in the side).		
13 ^e	104075	FENDER MOUNT (early-style) Optional rear (fender with notch) . .	1	g	When ordering, specify right or left side.		
14	651677	1"X8" CARRIAGE BOLT GR8	4	h	Used in place of L10466 zerk where fender mounts (7, 9, 11, or 13) are being used. Quantity varies depending on the number of fenders/fender mounts installed on the machine.		
15	104230	AXLE MOUNT PLATE	2				
16	651151	1" FLAT WASHER	4				
17	102781	1" LOCK NUT / CLASS C	4				
18	103918	DRIVESHAFT	1				
		(includes item 19)					
19	104684	U-JOINT	2				
		(included with item 18)					
20	103919	U-JOINT STRAP KIT (order only 1) .	1				
		(includes 4 straps and 8 bolts)					
21	L69734	M22-1.5 WHEEL NUT	AR				
22	50380341	16.5x9.75 WHEEL (rim only)	1				
		(purchase tires locally)					



Axles

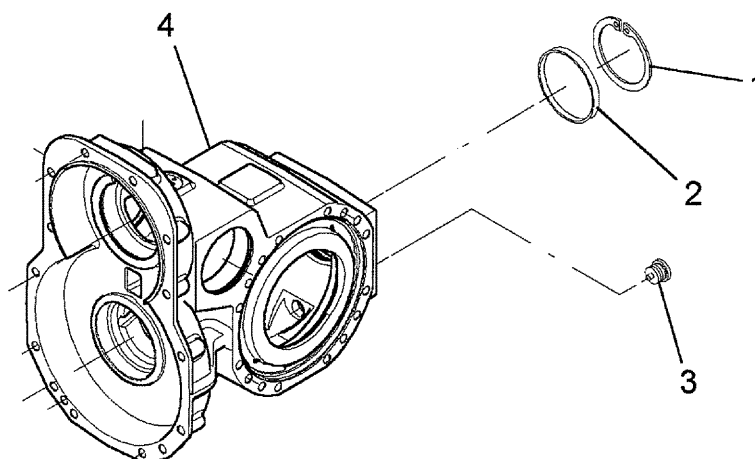
MT 5519 Telescopic Handler

Front and Rear Axle - Steer Cylinders and Tie Rods



NOTE: Quantities shown are for one cylinder—the machine uses two cylinders.

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	104542	STEER CYLINDER	1	05	106158	SEAL KIT	1
02	104486	RING	2			(Cylinder Stamped 211.24.623.12)	
03	104543	ARTICULATED TIE ROD	2			-- ITEMS NOT SHOWN --	
04	104503	CYLINDER BOLT	4	--	100011	ADAP, M18ORM -8JICM STR.	4
						(Connects steering hydraulic hoses to the steer cylinder.)	

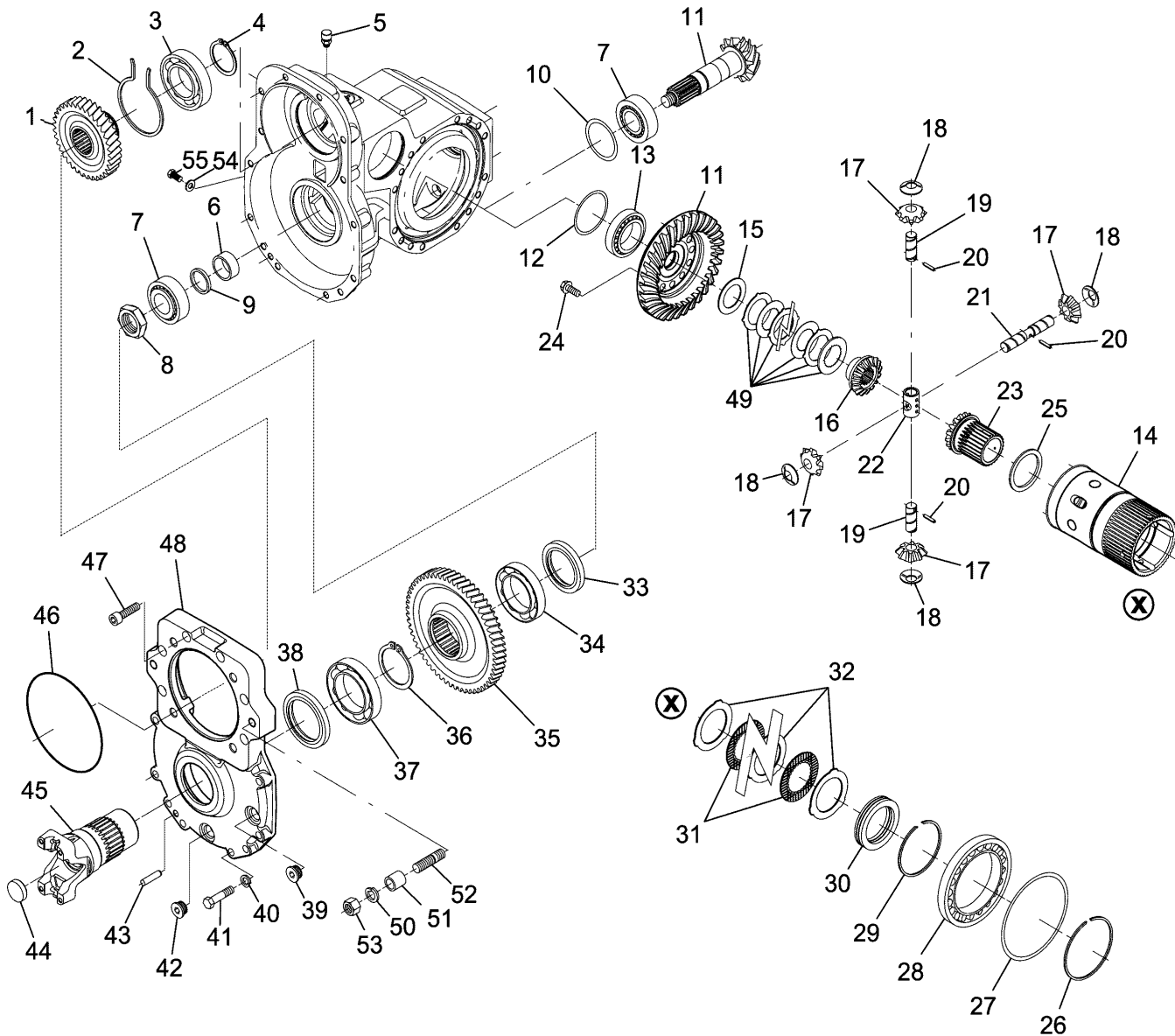


Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	L98373	SNAP RING	1	03	104569	MAGNETIC PLUG.....	1
02	104518	PLUG	1	04	104573	HOUSING	1

Axles

Front Axle - Differential

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

Axles

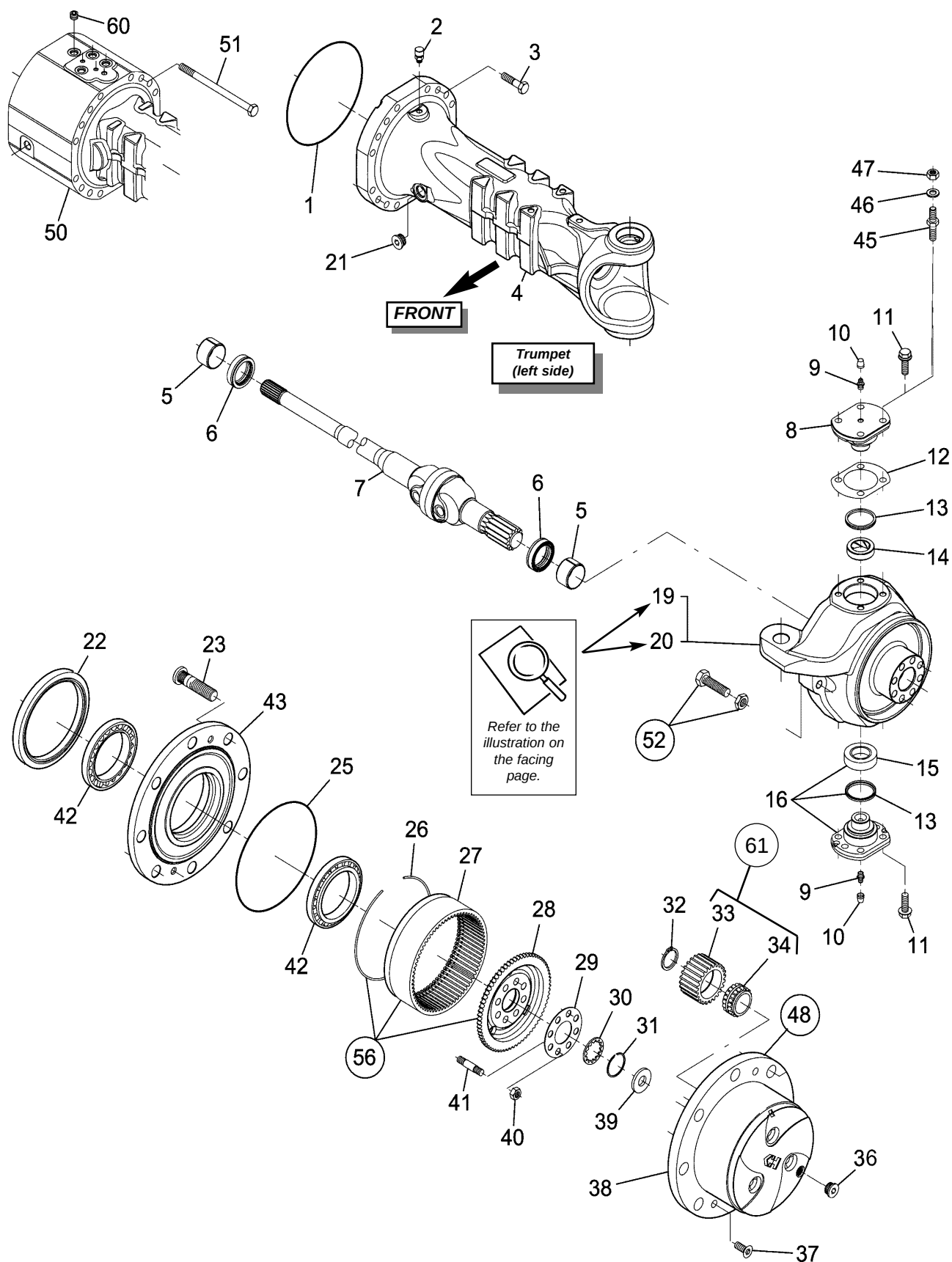
Front Axle - Differential

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	104651	GEAR.....	1	26	104596	SNAP RING.....	1
02	104654	SNAP RING.....	1	27	50220670	SHIM KIT.....	1
03	104601	BEARING.....	1	28	104604	BEARING.....	1
04	104593	SNAP RING.....	1	29	104598	SNAP RING.....	1
05	L98426	VENT.....	1	30	104605	BEARING.....	1
06	104509	SPACER.....	1	31	104629	CLUTCH DISC.....	7
07	104489	BEARING.....	2	32	104583	INTERMEDIATE CLUTCH DISC...	8
08	104649	RING NUT.....	1	33	104584	SEAL.....	1
09	50220667	SHIM KIT.....	1	34	104602	BALL BEARING.....	1
10	50220668	SHIM KIT.....	1	35	104652	GEAR.....	1
11	104646	BEVEL GEAR SET.....	1	36	104594	SNAP RING.....	1
12	50220669	SHIM KIT.....	1	37	104603	BEARING.....	1
13	104488	TAPER ROLLER BEARING.....	1	38	104585	SEAL.....	1
14	105982	DIFFERENTIAL CARRIER.....	1	39	104568	PLUG.....	1
15	104522	FRICTION WASHER.....	1	40	104606	SPRING WASHER.....	8
16	105558	DIFFERENTIAL SIDE GEAR.....	1	41	104618	BOLT.....	8
17	105255	DIFFERENTIAL PINION.....	4	42	104569	MAGNETIC PLUG.....	1
18	104523	FRICTION WASHER.....	4	43	104615	DOWEL.....	1
19	105985	PIN.....	2	44	104617	PLUG.....	1
20	104500	DOWEL.....	3	45	104648	FLANGE.....	1
21	105984	PIN.....	1	46	104591	O-RING.....	1
22	104506	SHAFT RETAINER.....	1	47	104503	BOLT.....	6
23	105559	DIFFERENTIAL SIDE GEAR.....	1	48	104653	COVER.....	1
24	104505	BOLT.....	12	49	104630	CLUTCH DISC.....	1
25	104624	FRICTION WASHER.....	1				

Axles

MT 5519 Telescopic Handler

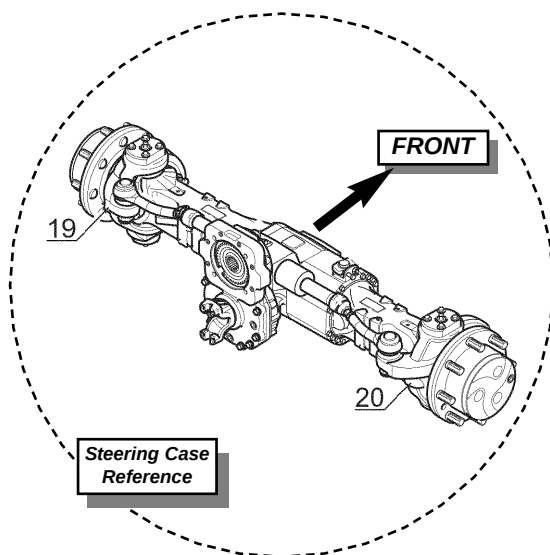
Front Axle - Reduction Hub



Front Axle - Reduction Hub

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	104484	O-RING	2	34	104642	BEARING.....	6
02	L98426	VENT	1	36	102575	PLUG.....	2
03	104502	BOLT	16	37	104504	BOLT	4
04	104539	AXLE CASE.....	1	38	104516	PLANET GEAR CARRIER	2
05 ^e	216181	THRUST BUSHING.....	2	39	104515	FRICTION WASHER.....	2
06	104537	SEAL	4	40	104491	NUT	16
07	104540	UNIVERSAL JOINT	2	41	104511	STUD.....	16
08	104529	PIVOT PIN.....	2	42	106872	BEARING.....	4
09	L98355	GREASE FITTING.....	4	43	104528	WHEEL HUB.....	2
10	104570	PLUG.....	4	45	50220056	STUD.....	8
11	L500467	BOLT	20	46	102583	WASHER.....	8
12	50220671	SHIM KIT.....	1	47	102587	NUT	8
13	104536	SEAL	2	48 ^b	106126	PLANET GEAR CARRIER	2
14	104544	BUSHING	2	50	104650	AXLE CASE.....	1
15	104549	BUSHING/BEARING.....	2	51	104619	BOLT	16
16	104541	PIVOT PIN.....	2	52 ^c	104546	STEERING ADJUST BOLT.....	4
19 ^a	50220676	STEERING CASE (includes #5) ...	1	56 ^d	106127	RING GEAR SUPPORT	2
20 ^a	50220677	STEERING CASE (includes #5) ...	1	60	50220674	PLUG.....	1
21	104568	PLUG.....	1	61 ^f	50220675	PLANET GEAR ASSEMBLY	6
22	104517	SEAL	2				
23	104572	WHEEL STUD.....	16				
25	104485	O-RING	2				
26	L500519	SNAP RING.....	2				
27	L500509	RING GEAR	2				
28	104510	RING GEAR SUPPORT	2				
29	104512	LOCKING PLATE	2				
30	104538	RING	2				
31	104487	SNAP RING.....	2				
32	104600	SNAP RING.....	6				
33	104641	PLANET GEAR	6				

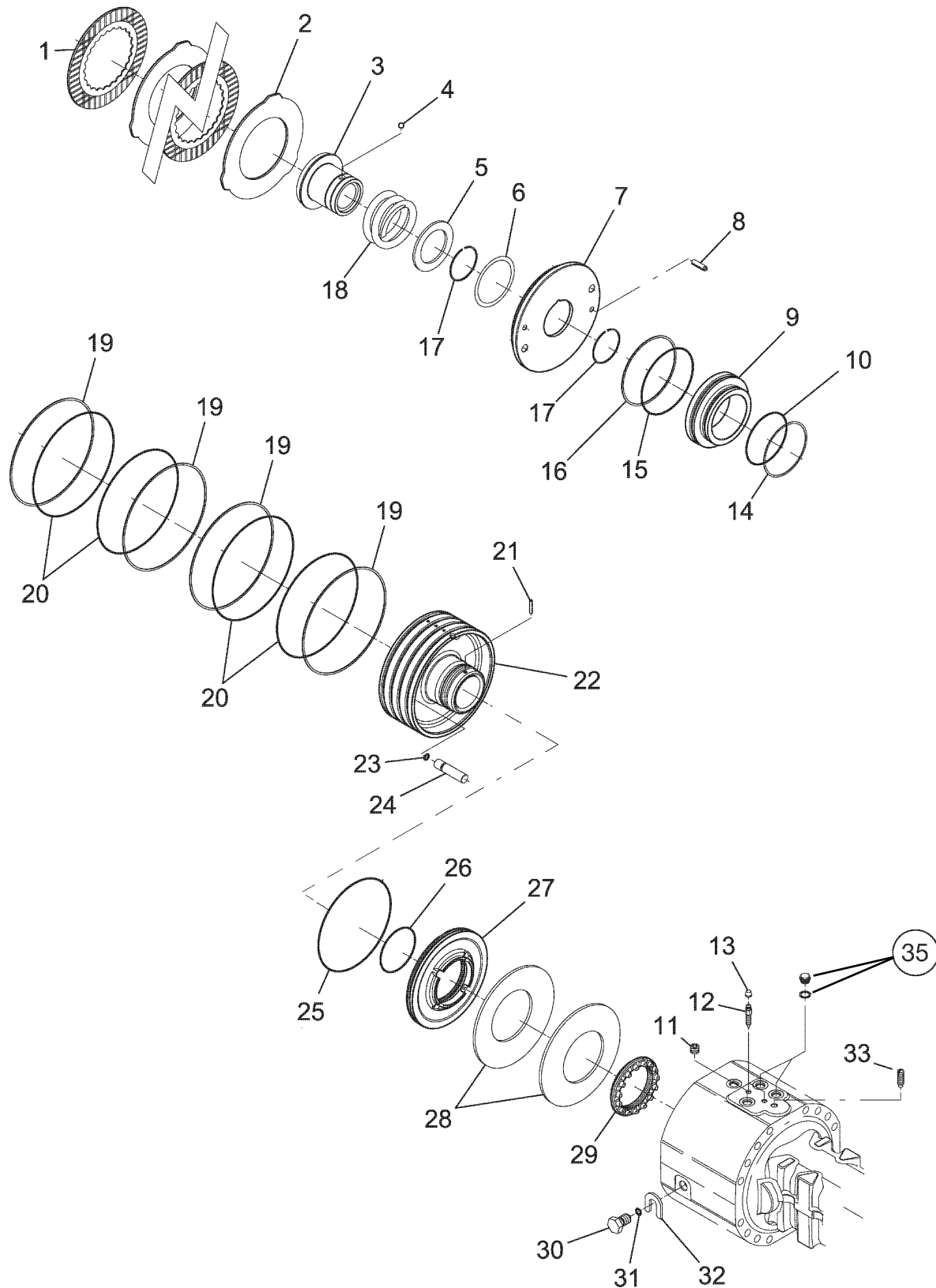
- a Refer to the upper illustration on the facing page before ordering parts; be sure to note the direction of forward travel when determining correct parts. Includes one of item #5 thrust bushing, already pressed into the steering case.
- b Includes items 32, 33, 34, 38 and 39.
- c Includes adjusting bolt and jam nut.
- d Includes items 26 - 28.
- e Included with items 19 and 20.
- f Includes items 33 and 34.



Axles

Front Axle - Brakes

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

Axles

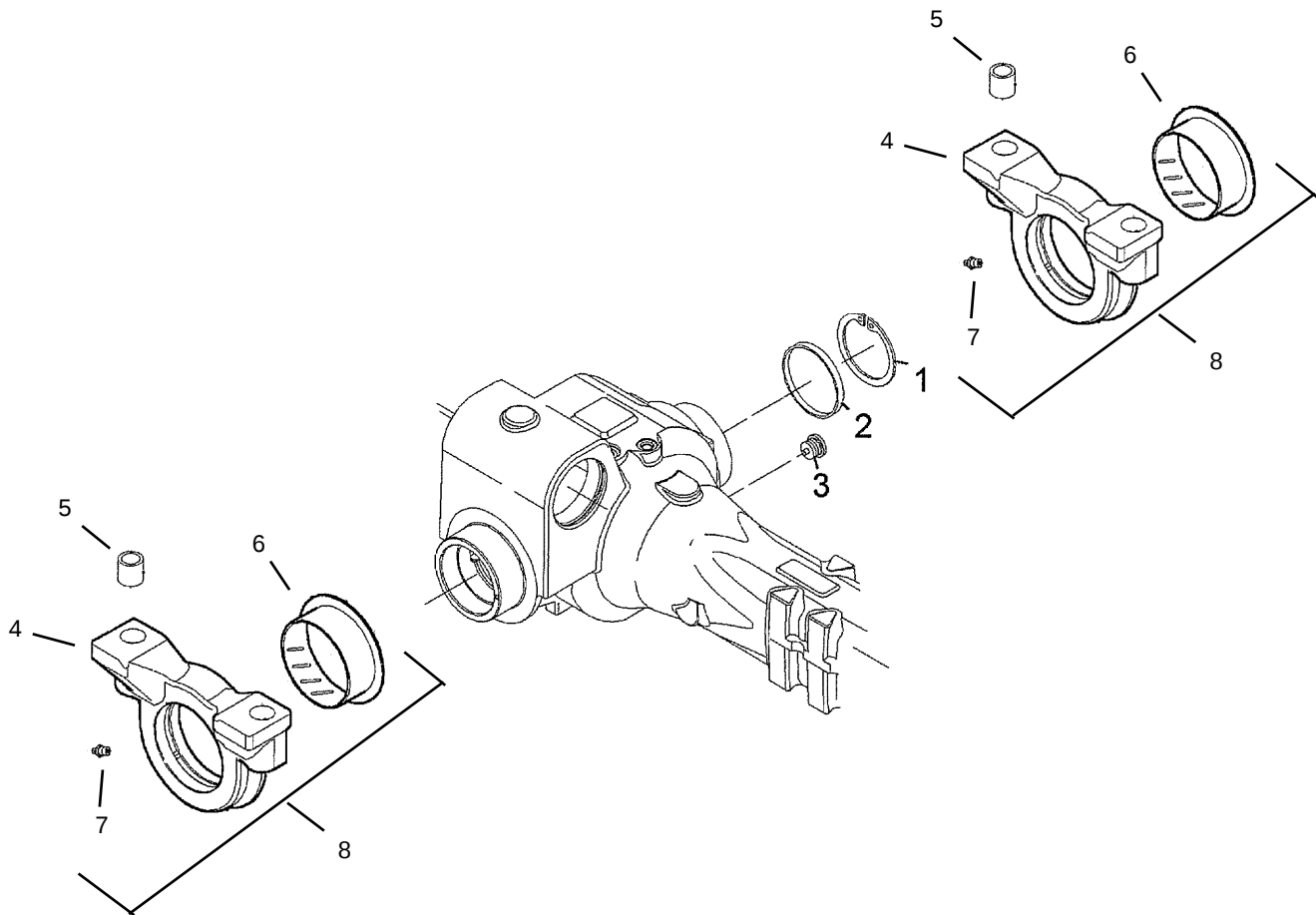
Front Axle - Brakes

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	104643	BRAKE DISC.....	6	18	104628	SPRING.....	1
02	104632	INTERMEDIATE BRAKE DISC....	6	19	104647	BACK-UP RING.....	4
03	210390	BUSHING	1	20	104588	O-RING	4
04	104608	DETENTE BALL	1	21	104500	DOWEL	1
05	210389	SPACER	1	22	104631	PISTON.....	1
06	50220678	SHIM KIT.....	1	23	104589	O-RING	3
07	105983	INTERMEDIATE BRAKE DISC....	1	24	104636	PIN.....	3
08	104616	ROLL PIN	2	25	104587	O-RING	1
09	104635	PISTON	1	26	104592	O-RING	1
10	104586	O-RING	1	27	50220685	PISTON.....	1
11	50220674	PLUG.....	1	28	104656	SPRING.....	2
12	104655	BLEED SCREW	2	29	104640	RING NUT	1
13	104570	PLUG.....	2	30	104638	BOLT	2
14	104633	BACK-UP RING.....	1	31	104590	O-RING	2
15	104657	O-RING	1	32	104639	SPACER	2
16	104658	BACK-UP RING.....	1	33	104620	BOLT	1
17	104597	SNAP RING.....	2	35	50220068	PLUG ASSEMBLY.....	2

Axles

Rear Axle - Central Housing

MT 5519 Telescopic Handler



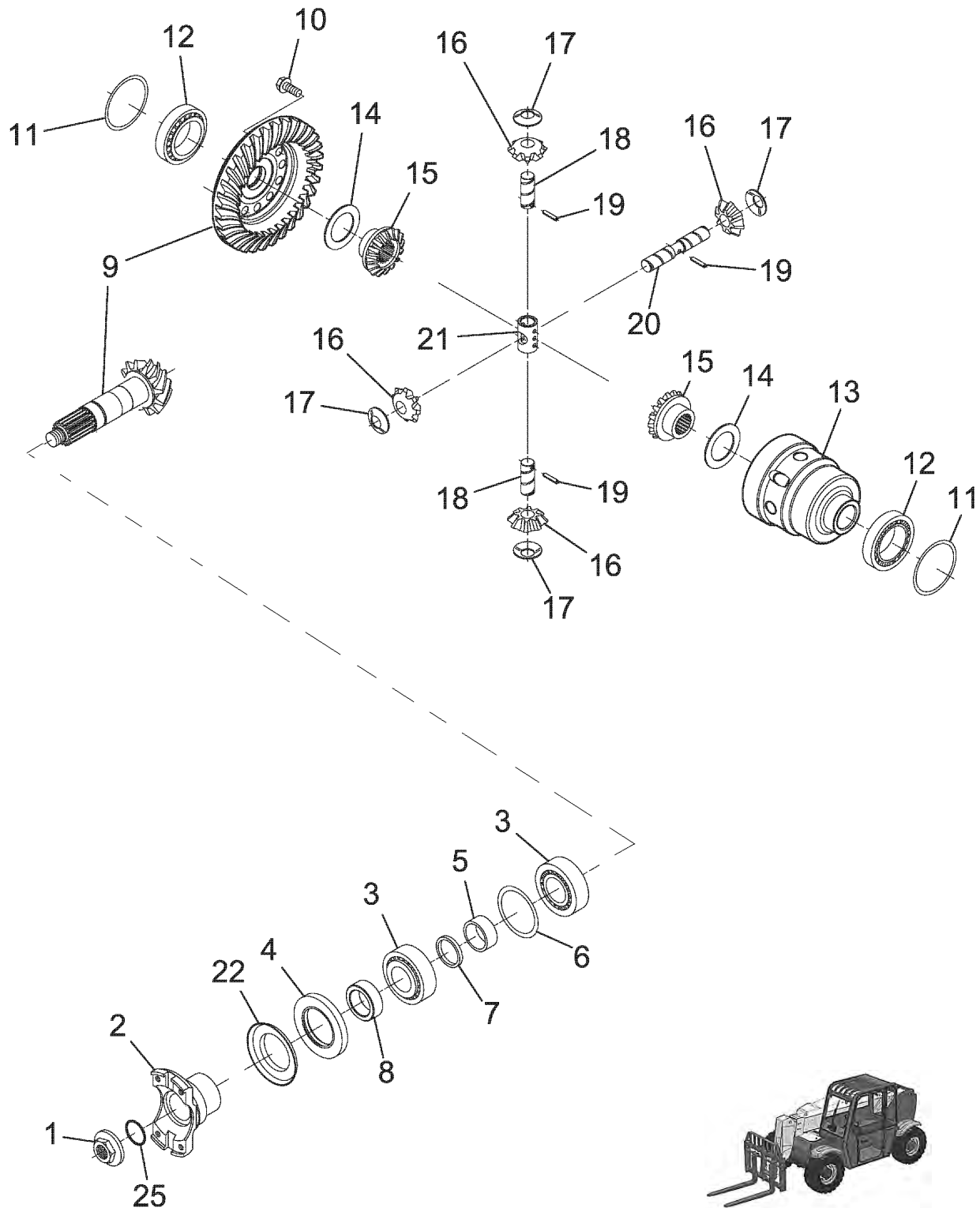
MT 5519 Telescopic Handler

Axles

Rear Axle - Central Housing

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	L98373	SNAP RING.....	1	05	L500542	REDUCTION BUSHING	4
02	104518	PLUG.....	1	06	104551	THRUST BUSHING.....	2
03	104569	MAGNETIC PLUG.....	1	07	L98355	GREASE FITTING.....	2
04	104550	SUPPORT	2	08	104552	SUPPORT (<i>complete as shown</i>)...	2

Rear Axle - Differential



MT 5519 Telescopic Handler

Axles

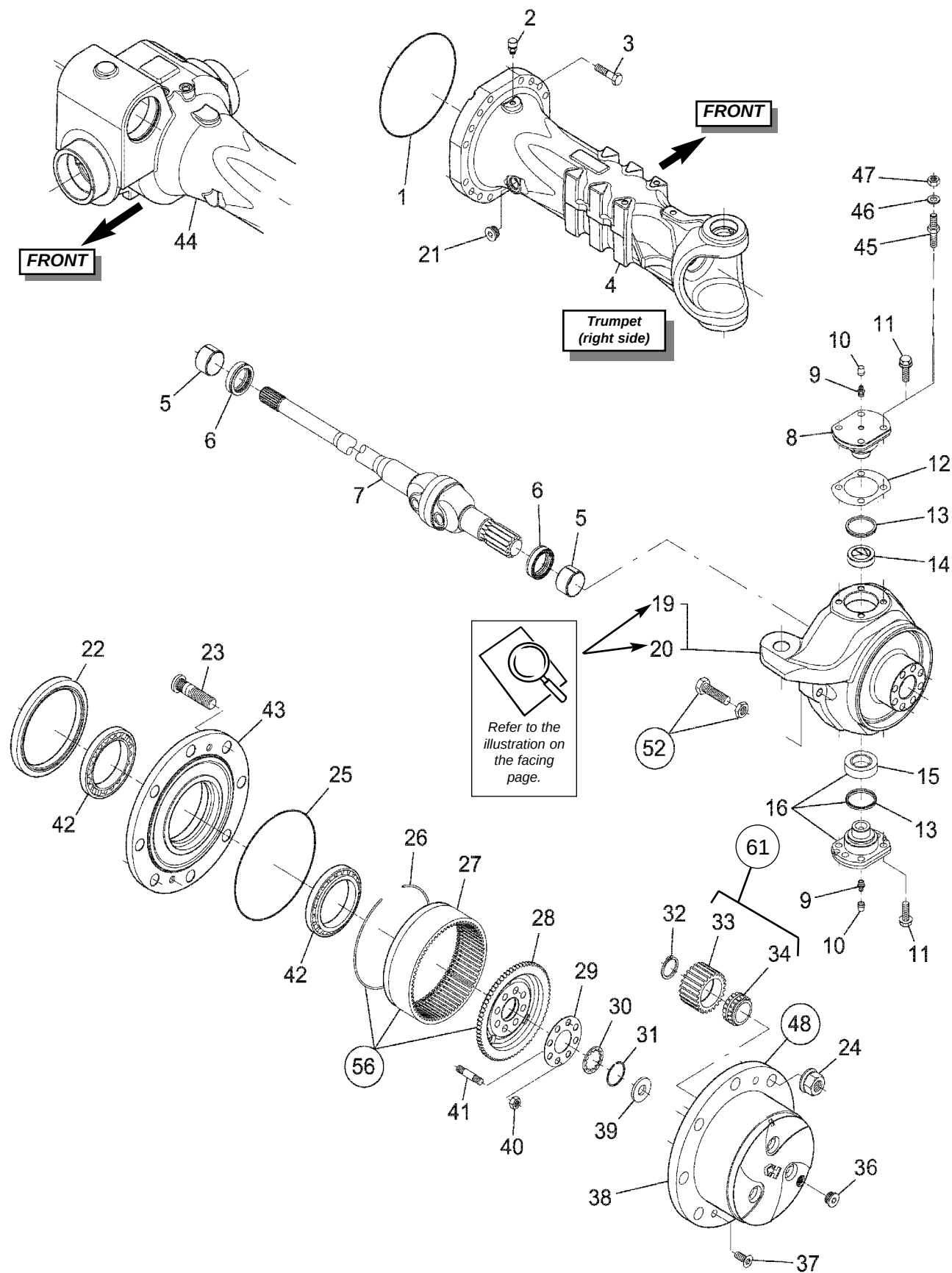
Rear Axle - Differential

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	104571	NUT	1	13	104519	DIFFERENTIAL CARRIER	1
02	104526	FLANGE	1	14	104522	FRICTION WASHER.....	2
03	104489	BEARING.....	2	15	105254	DIFFERENTIAL SIDE GEAR	2
04	50220249	SEAL	1	16	105255	DIFFERENTIAL PINION	4
05	104509	SPACER	1	17	104523	FRICTION WASHER.....	4
06	50220668	SHIM KIT.....	1	18	105985	PIN.....	2
07	50220667	SHIM KIT.....	1	19	104500	DOWEL	3
08	104525	SPACER	1	20	105984	PIN.....	1
09	104527	BEVEL GEAR SET	1	21	104506	SHAFT RETAINER	1
10	104505	BOLT	12	22	104547	COVER PLATE	1
11	50220683	SHIM KIT.....	1	25	L98392	O-RING	1
12	104488	BEARING.....	2				

Axles

MT 5519 Telescopic Handler

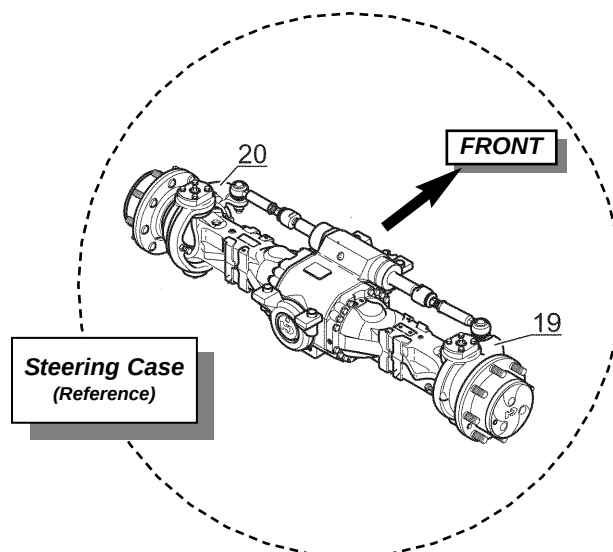
Rear Axle - Reduction Hub



Rear Axle - Reduction Hub

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	104484	O-RING	2	37	104504	BOLT	4
02	50220030	VENT	1	38	104516	PLANET GEAR CARRIER	2
03	104502	BOLT	16	39	104515	FRICTION WASHER	2
04	104539	AXLE CASE	1	40	104491	NUT	16
05 ^e	216181	THRUST BUSHING	2	41	104511	STUD	16
06	104537	SEAL	4	42	106872	BEARING	4
07	104540	UNIVERSAL JOINT	2	43	104528	WHEEL HUB	2
08	104529	PIVOT PIN	2	44	104548	AXLE CASE	1
09	L98355	GREASE FITTING	4	45	50220056	STUD	8
10	104570	PLUG	4	46	102583	WASHER	8
11	L500467	BOLT	20	47	102587	NUT	8
12	50220671	SHIM KIT	1	48 ^b	106126	PLANET GEAR CARRIER	2
13	104536	SEAL	2	52 ^c	104546	STEERING ADJUST BOLT	4
14	104544	BUSHING	2	56 ^d	106127	RING GEAR SUPPORT	2
15	104549	BUSHING/BEARING	2	61 ^f	50220675	PLANET GEAR ASSEMBLY	6
16	104541	PIVOT PIN	2				
19 ^a	50220676	STEERING CASE (includes #5) ...	1				
20 ^a	50220677	STEERING CASE (includes #5) ...	1				
21	104568	PLUG	1				
22	104517	SEAL	2				
23	104572	WHEEL STUD	16				
25	104485	O-RING	2				
26	L500519	SNAP RING	2				
27	L500509	RING GEAR	2				
28	104510	RING GEAR SUPPORT	2				
29	104512	LOCKING PLATE	2				
30	104538	RING	2				
31	104487	SNAP RING	2				
32	104600	SNAP RING	6				
33	104641	PLANET GEAR	6				
34	104642	BEARING	6				
36	102575	PLUG	2				

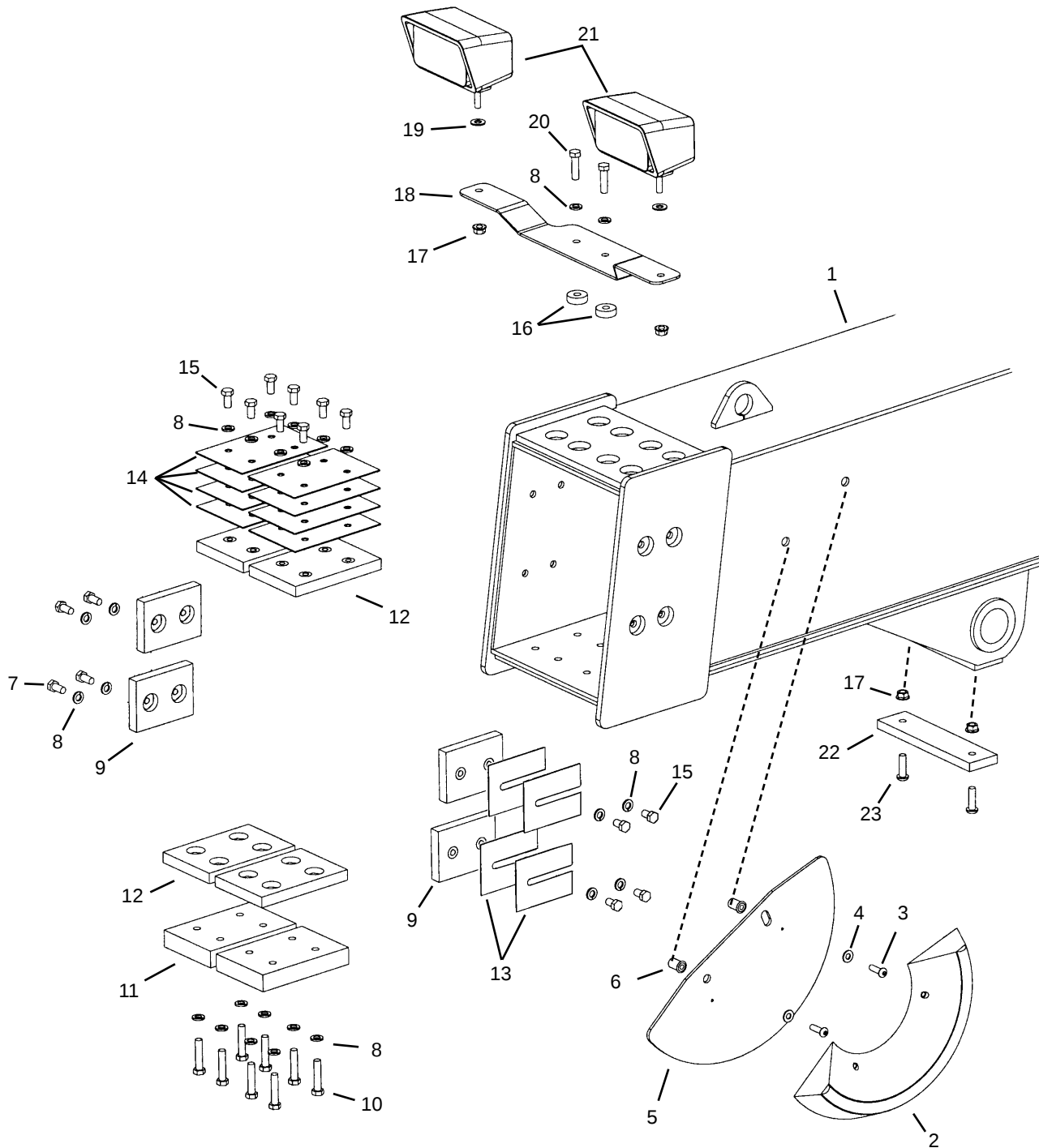
- a Refer to the upper illustration on the facing page before ordering parts; be sure to note the direction of forward travel when determining correct parts. Includes one of item #5 thrust bushing, already pressed into the steering case.
- b Includes items 32, 33, 34, 38 and 39.
- c Includes adjusting bolt and jam nut.
- d Includes items 26 - 28.
- e Included with items 19 and 20.
- f Includes items 33 and 34.



Boom

Outer Boom - Front

MT 5519 Telescopic Handler



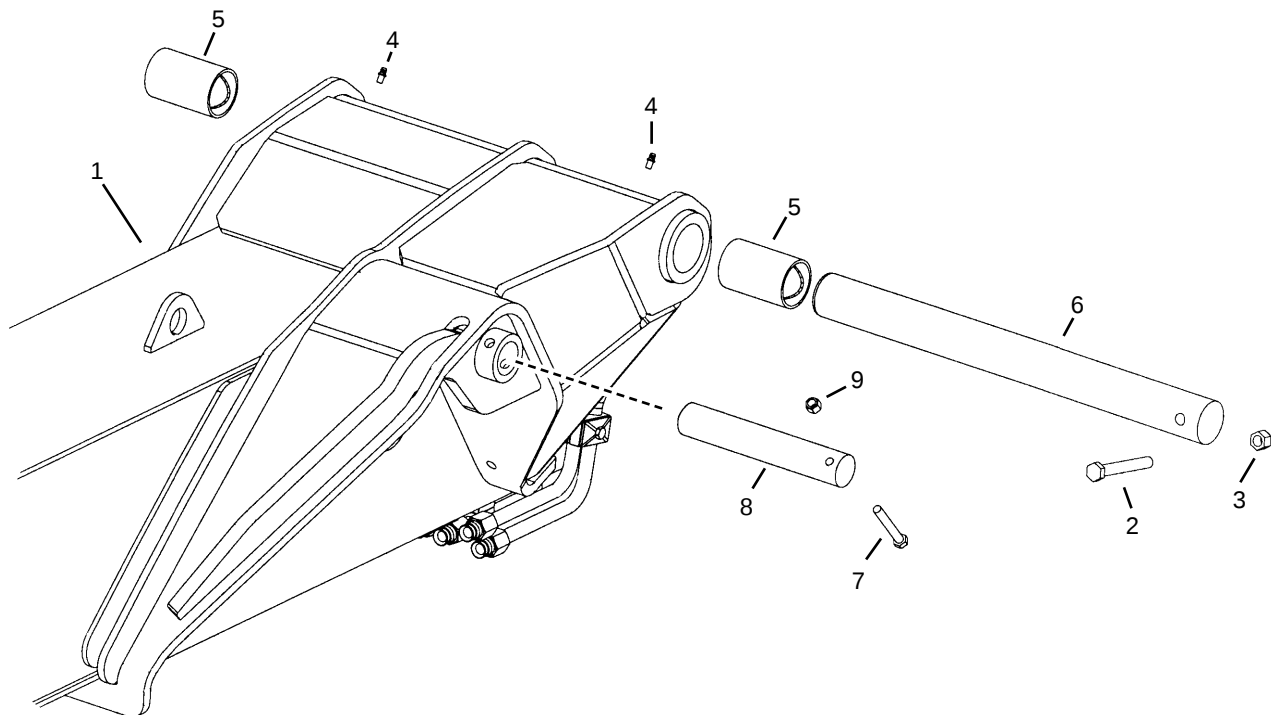
Boom
Outer Boom - Front

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	210465	OUTER BOOM WELDMENT	1	16 ^{ab}	104392	BOOM LIGHT SPACER	AR
02	L65638	INCLINOMETER-ANGLE IND.	1	17 ^a	090666	3/8" WHIZ LOCK NUT	AR
	L50791	#8X5/8" RND HD MACH.SCREW.	2	18 ^a	103808	LIGHT BRACKET	1
03	L52028	5/16"-18X1" BTNHD BOLT	2	19 ^a	L50151	1/2" FLAT WASHER	AR
04	654004	5/16" FLAT WASHER	2	20 ^a	651625	3/8"X1-1/4" BTTN HD BOLT.	AR
05	L65640	PLATE, BOOM ANGLE IND.	1	21 ^a	L70040	WORK LIGHT	2
06	L70242	5/16"-18 NUTSERT	2	22	104686	BOOM REST PAD.	1
07	650450	3/8"X5/8" BOLT.	AR	23	651625	3/8"X1-1/4" BTTN HD BOLT	2
08	654026	3/8" LOCK WASHER	AR				
09	L61709	3"X4" SLIDE PAD	AR				
10	650579	3/8"X1-3/4" BOLT	AR				
11	103725	SLIDE PAD SPACER	AR				
12	L61708	4"X6" SLIDE PAD	AR	-- a	104743	WIRE HARNESS, BOOM LIGHTS	1
13		SHIM.	AR	-- a	L51143	TIE STRAP 0.171X11".	16
	104847	1/16"X3"X4"					
	104849	1/8"X3"X4"		a		When equipped with optional boom work lights.	
14	L62731	4"X6"X1/16" SHIM	AR				
15	650488	3/8"X3/4" BOLT.	AR	b		Also used on the side of the boom with a vinyl clamp to secure boom wire harness.	

Boom

Outer Boom - Rear

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

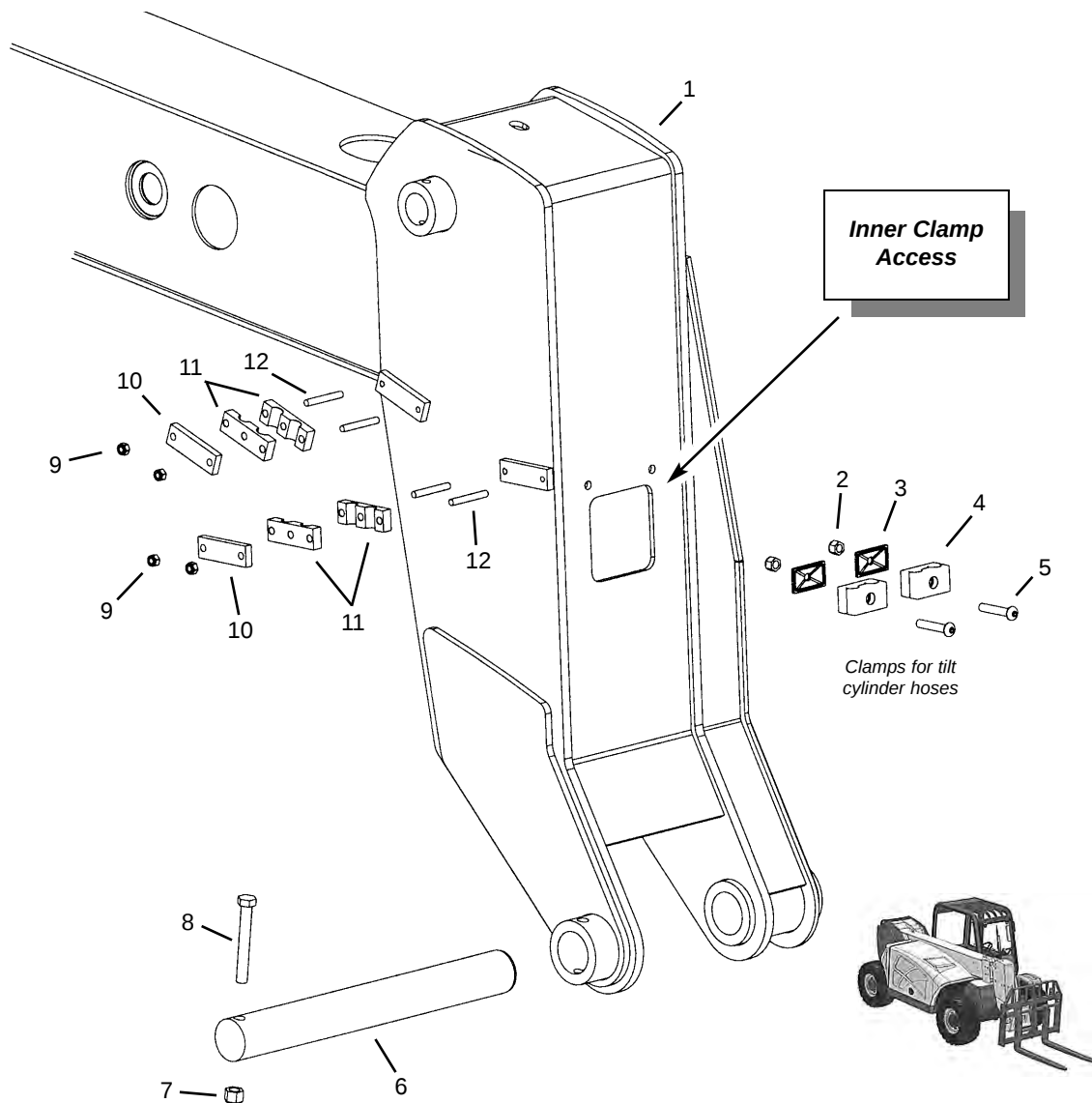
Boom Outer Boom - Rear

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	210465	OUTER BOOM WELDMENT	1	06	103715	BOOM PIVOT PIN	1
02	650744	1/2"X4" BOLT	1	07	650493	3/8"X2-3/4" BOLT	1
03	068034	1/2" NYLON INSERT NUT	1	08	210605	SLAVE CYL PIN (ROD END)	1
04	L10465	1/4"-28 GREASE ZERK	2	09	067847	3/8" NYLON INSERT NUT	1
05	103758	BUSHING	2				

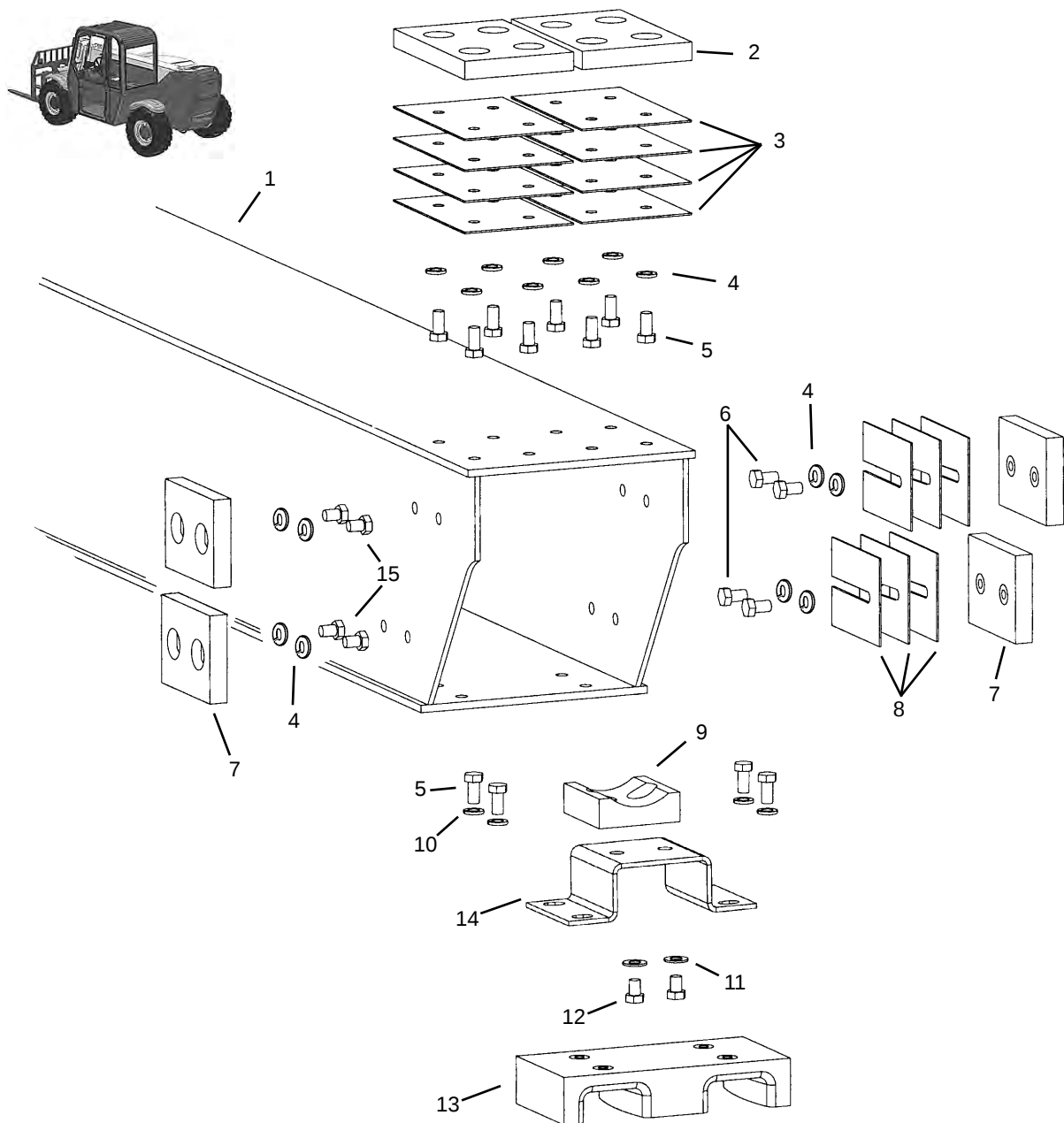
Boom

Inner Boom - Front

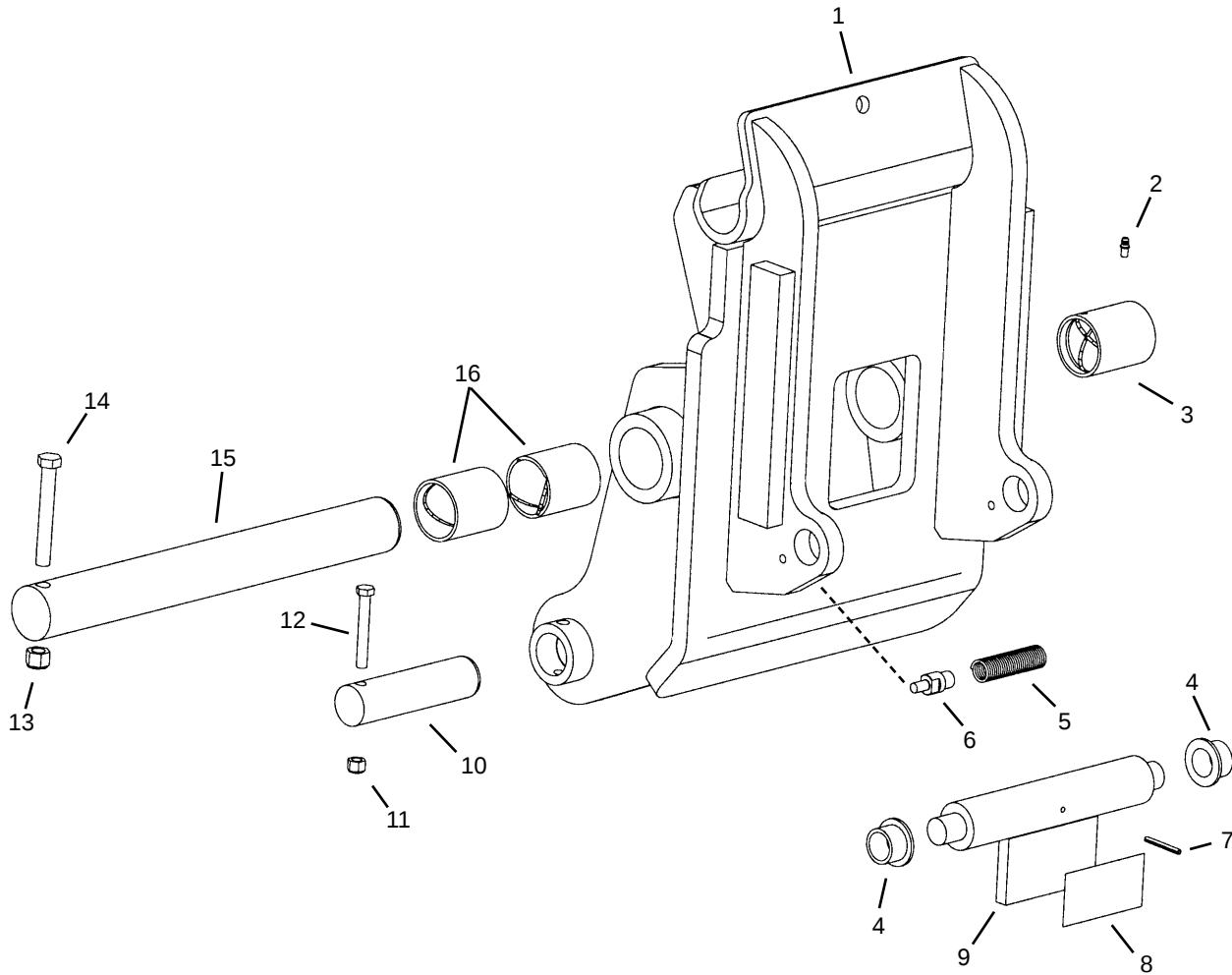
MT 5519 Telescopic Handler



Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	105612	INNER BOOM WELDMENT	1	10 ^b	L63715	TOP PLATE, TWIN CUSHION	2
02 ^a	067847	3/8" NYLON INSERT NUT	AR	11 ^b	L68039	TUBE CLAMP, DOUBLE	4
03 ^a	L69833	PLATE, TWIN CLAMP	AR	12 ^b	105212	5/16"X2-1/2" STUD	4
04 ^a	L69832	CLAMP, 5/8" TWIN TUBE.	AR				
05	651678	5/16"X2-14" BTTN HD BOLT	AR	a	Mounted inside of boom through inner clamp access hole.		
06	103676	PIVOT PIN.	1	b	When equipped with auxiliary hydraulic option.		
07	068034	1/2" NYLON INSERT NUT	1				
08	650454	1/2"X3-3/4" BOLT	1				
09 ^b	L520004	5/16" NUT	4				



Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	105612	INNER BOOM WELDMENT	1	09	103845	EXTEND CYL. SUPPORT PAD . . .	1
		(includes item 16)		10	654006	3/8" FLAT WASHER	2
02	L61708	4"X6" SLIDE PAD	2	11	654026	3/8" LOCK WASHER	AR
03	L62731	4"X6"X1/16" SHIM	AR	12	650488	3/8"X3/4" BOLT	AR
04	654026	3/8" LOCK WASHER	AR	13	104126	SLIDE PAD, HOSE GUIDE	1
05	L510007	3/8"X7/8" BOLT	AR	14	105094	EXTEND CYL. SUPPORT	1
06	650488	3/8"X3/4" BOLT	AR	15	650450	3/8"X5/8" BOLT	AR
07	L61709	3"X4" SLIDE PAD	AR				
08		SHIM	AR				
	104847	1/16"X3"X4"					
	104849	1/8"X3"X4"					

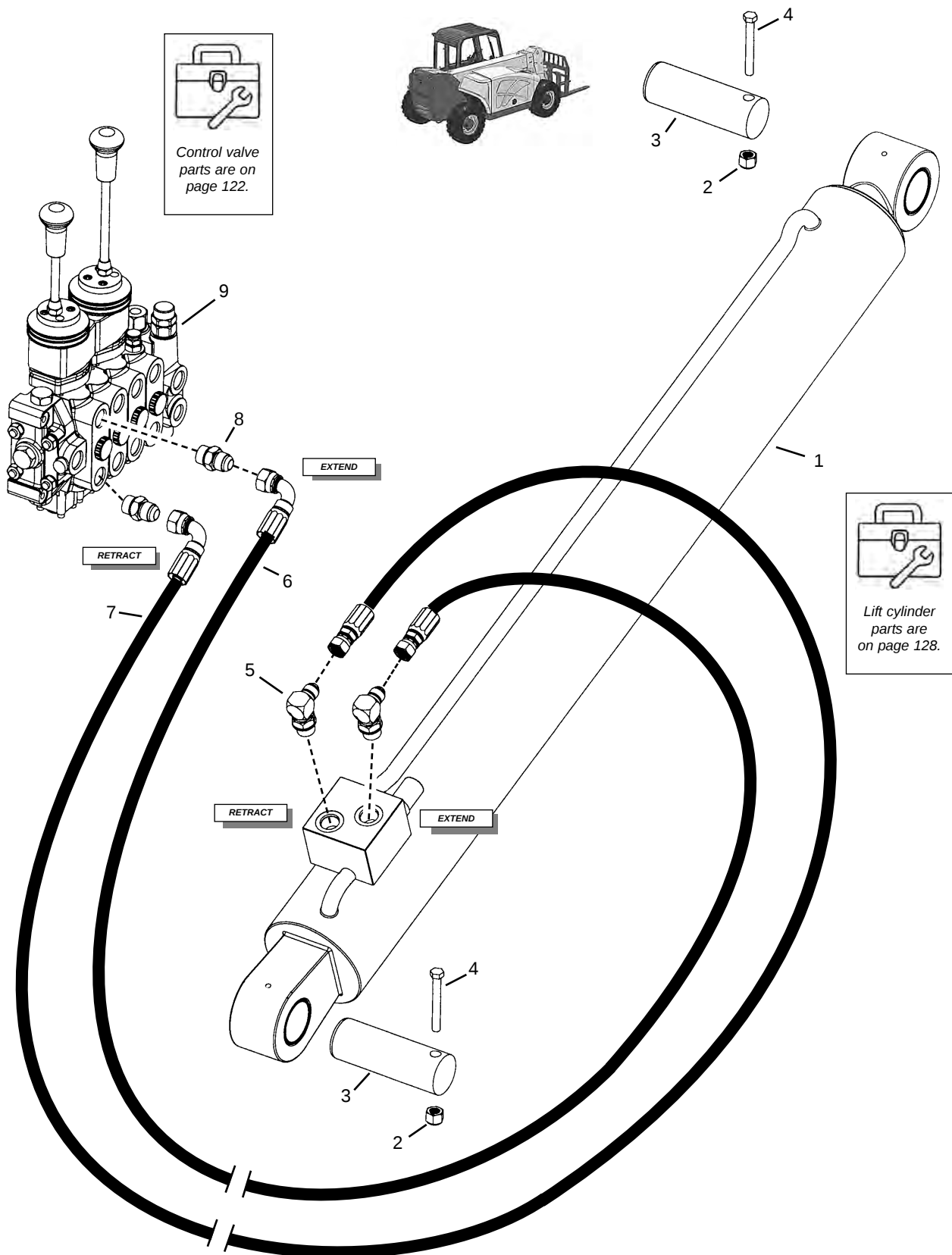


MT 5519 Telescopic Handler

Boom

Dynattach® Mount Assembly

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	103597	DYNATTACH WELDMENT 1 <i>(includes items 3, 4 and 16)</i>		09	L63957	LOCK AND PIN ASSEMBLY 1 <i>(does not include item 7)</i>	
02	L10465	1/4"-28 GREASE ZERK STR. . . . AR		10	L63272	PIN, TILT CYLINDER ROD 1	
03	103606	PIVOT BEARING 1		11	067847	3/8" NYLON INSERT NUT 1	
04	L66456	BUSHING, LOCK PIN 2		12	650493	3/8"X2-3/4" BOLT 1	
05	L65097	LOCK SPRING 1		13	068034	HLN INST 1/2 CZY 1	
06	L65098	SPRING MOUNT. 1		14	650454	1/2"X3-3/4" BOLT 1	
07	L50646	3/16"X1-3/4" ROLL PIN 1		15	103676	PIN, PIVOT 1	
08	L66613	DECAL, DYNATTACH UNLOCKED 1 <i>(adheres to item 9)</i>		16	103754	PIVOT BEARING 2	

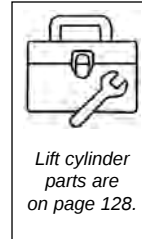


MT 5519 Telescopic Handler

Boom Hydraulics Lift Cylinder Group

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	<i>Note a</i>	LIFT CYLINDER	2	07	210620	HOSE, -8 A8/DM8 97"	1
02	L520019	1/2" NYLON INSERT NUT	2	08	072580	ADAP -10ORM -8JICM STR	2
03	210606	PIN, LIFT CYLINDER	2	09	103926	VALVE, CONTROL	1
04	650818	1/2"X4" BOLT GR5	2				
05	076031	ADAP., -10ORM -8JICM 90°	2				
06	210620	HOSE, -8 A8/DM8 97"	1				
						-- ITEMS NOT SHOWN --	
				--	210630	NYLON SLEEVE	1
						(used with items 6 and 7)	

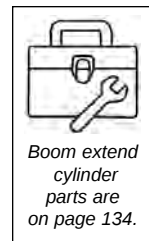
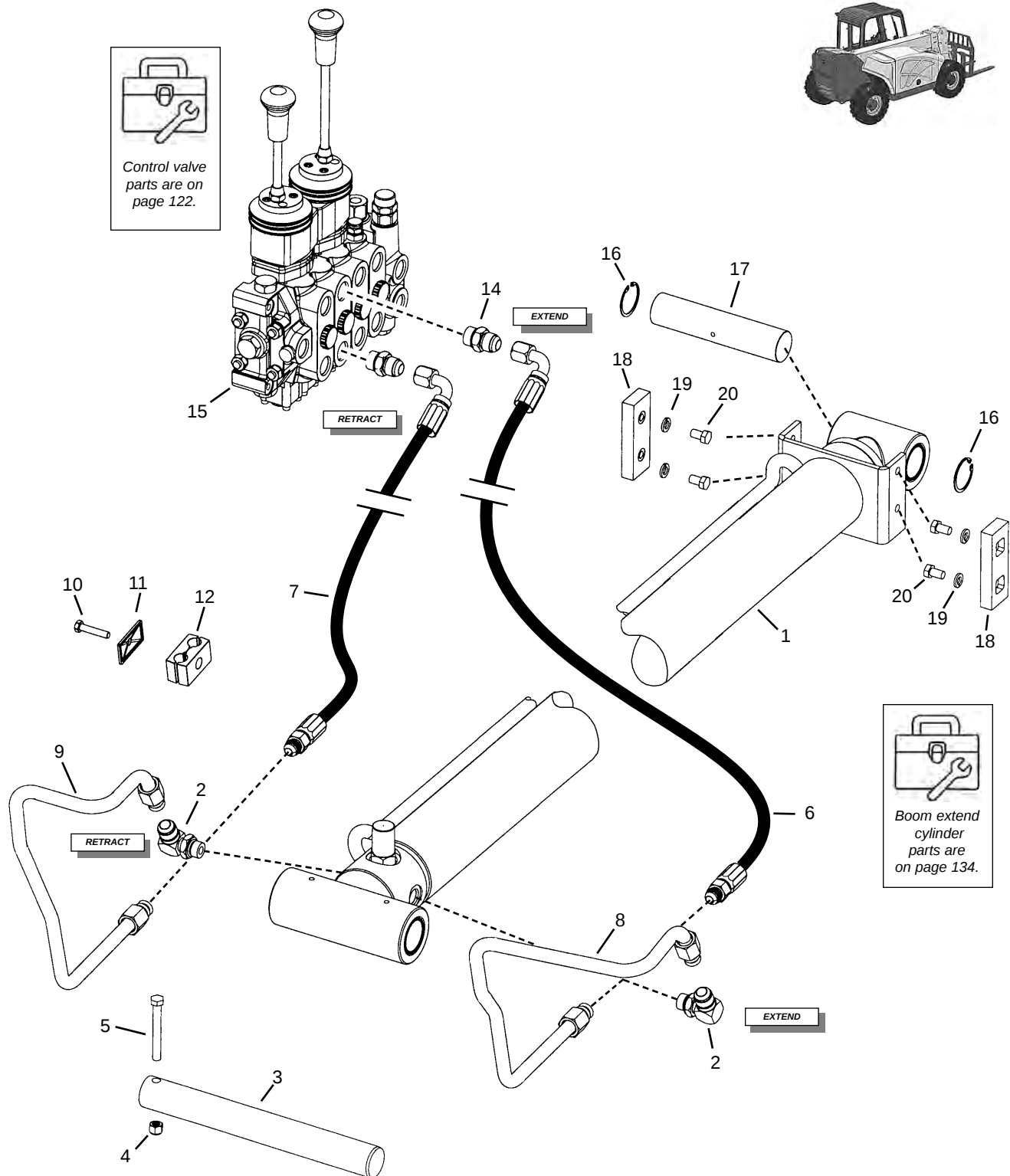
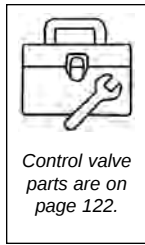
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Boom Hydraulics

Extend Cylinder Group

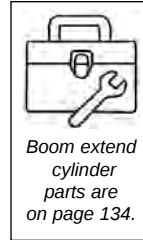
MT 5519 Telescopic Handler



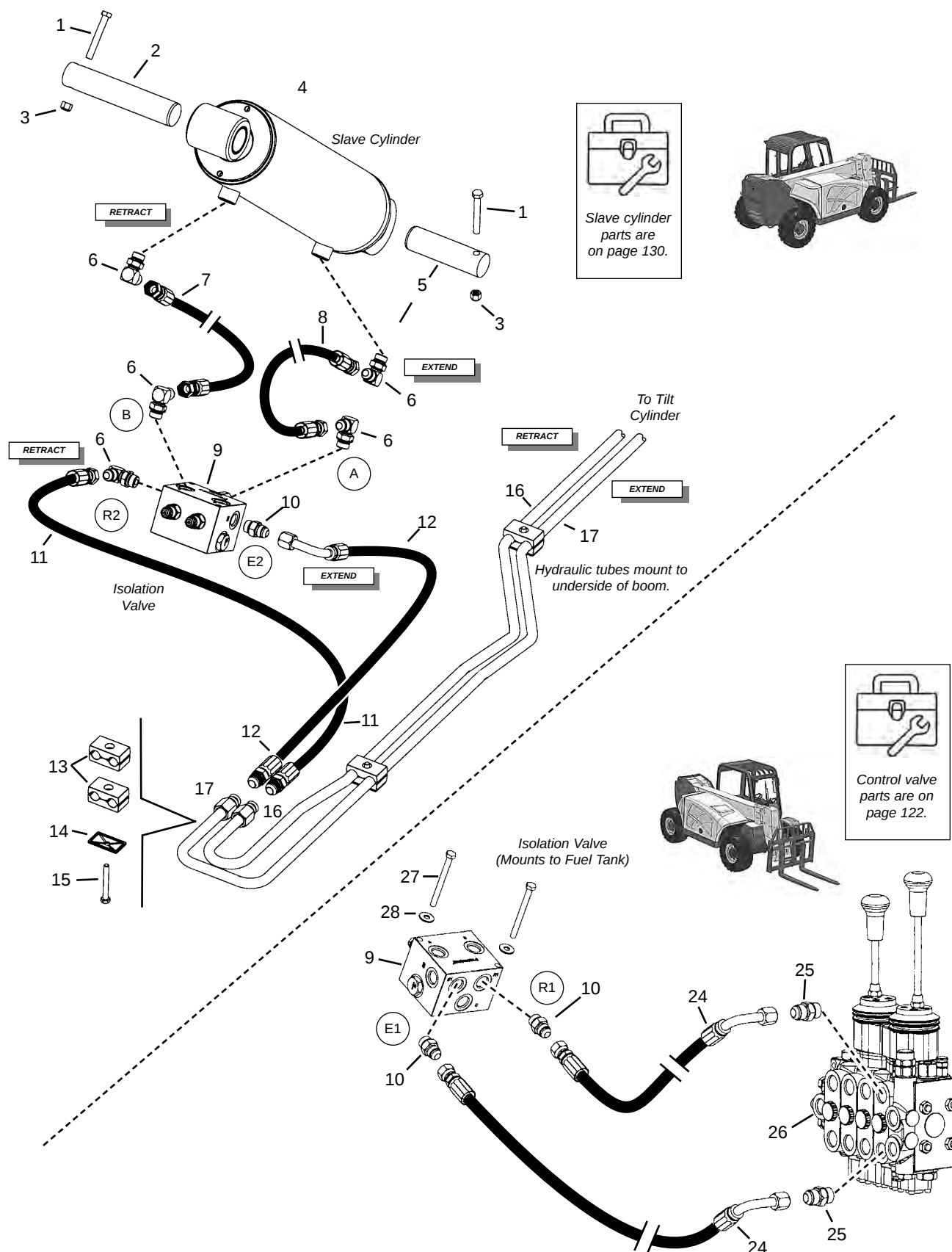
MT 5519 Telescopic Handler

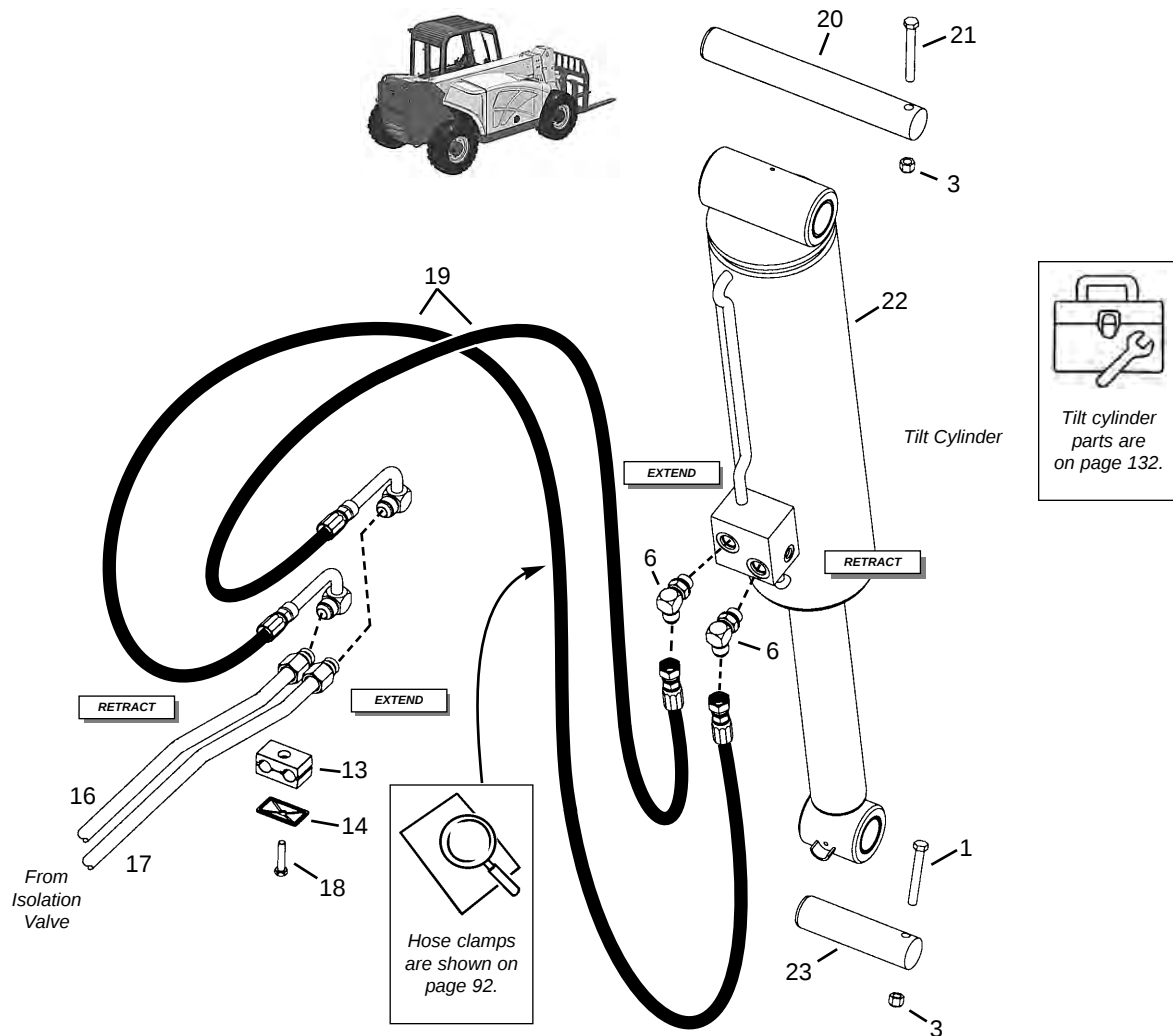
Boom Hydraulics Extend Cylinder Group

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	Note a	CYLINDER, EXTEND	1	17	103679	PIN, EXTEND ROD END	1
02	067455	ADAP., -8ORM -10JICM 90°	2	18	L71003	PAD, SLIDE 1-1/2"X4"	2
03	103718	PIN, EXTEND CYL. BASE	1	19	654026	3/8" LOCK WASHER	4
04	067847	3/8" NYLON INSERT NUT	1	20	650450	3/8"X5/8" BOLT	4
05	650818	3/8"X3" BOLT.	1				
06	210624	HOSE, -8 H10/DL8 68"	1			-- ITEMS NOT SHOWN --	
07	210624	HOSE, -8 H10/DL8 68"	1	--	210630	NYLON SLEEVE	1
08	210527	TUBE, EXTEND	1			(used with items 6 and 7)	
09	210528	TUBE, RETRACT	1				
10 ^b	L50842	5/16"X1-1/2" BOLT	1				
11 ^b	L69833	CUSHION PLATE	1	a			
12 ^b	L69832	CLAMP, CUSHION DBL	1				
14	072580	ADAP., -10ORM -8JICM STR	2				
15	103926	CONTROL VALVE	1				
16	103897	SNAP RING, INT 1.5"OD.	2				

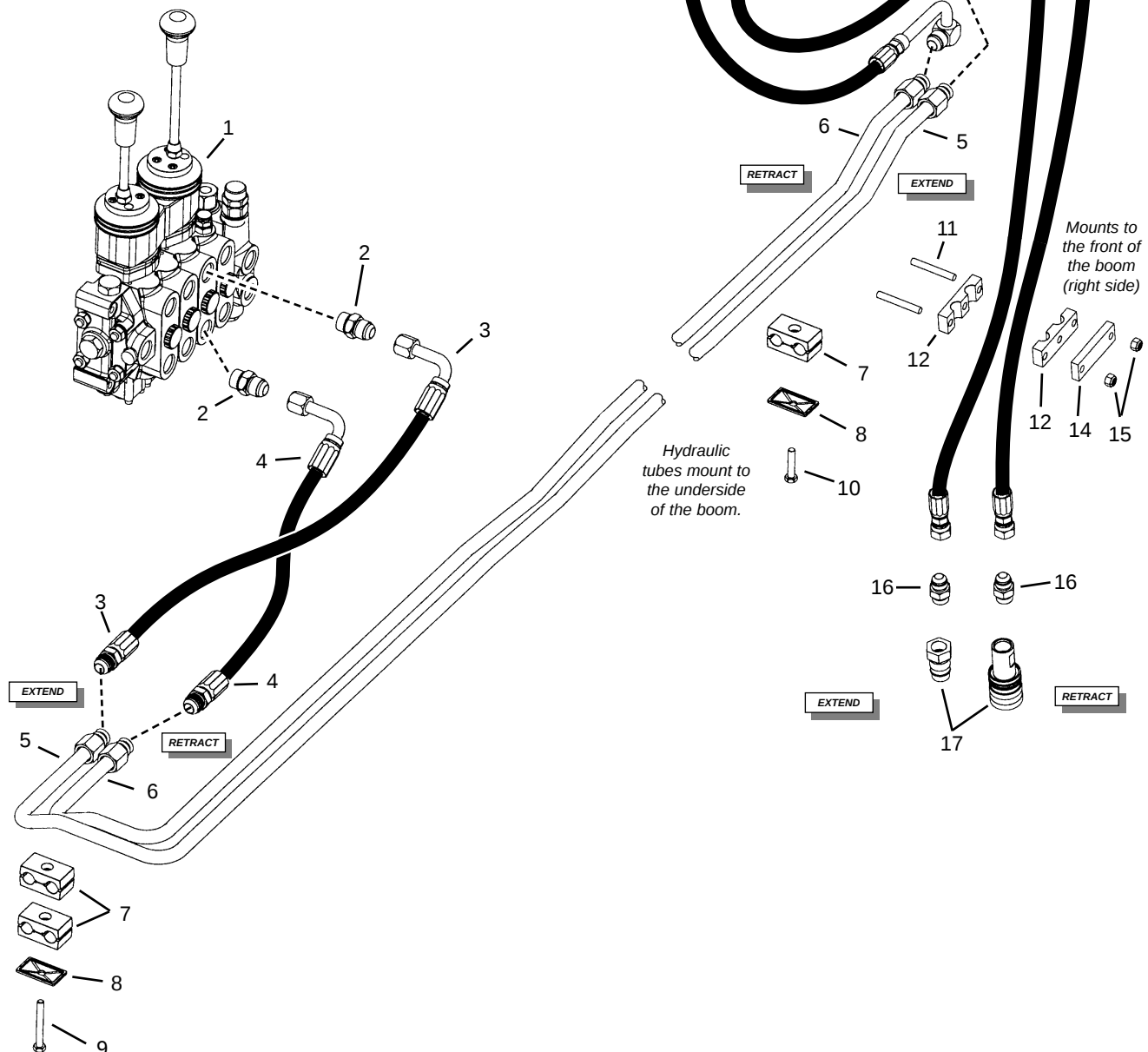
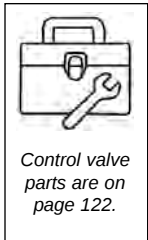


- b These components fasten to the left-rear outer boom and retain the hydraulic tubes: items 8 and 9.





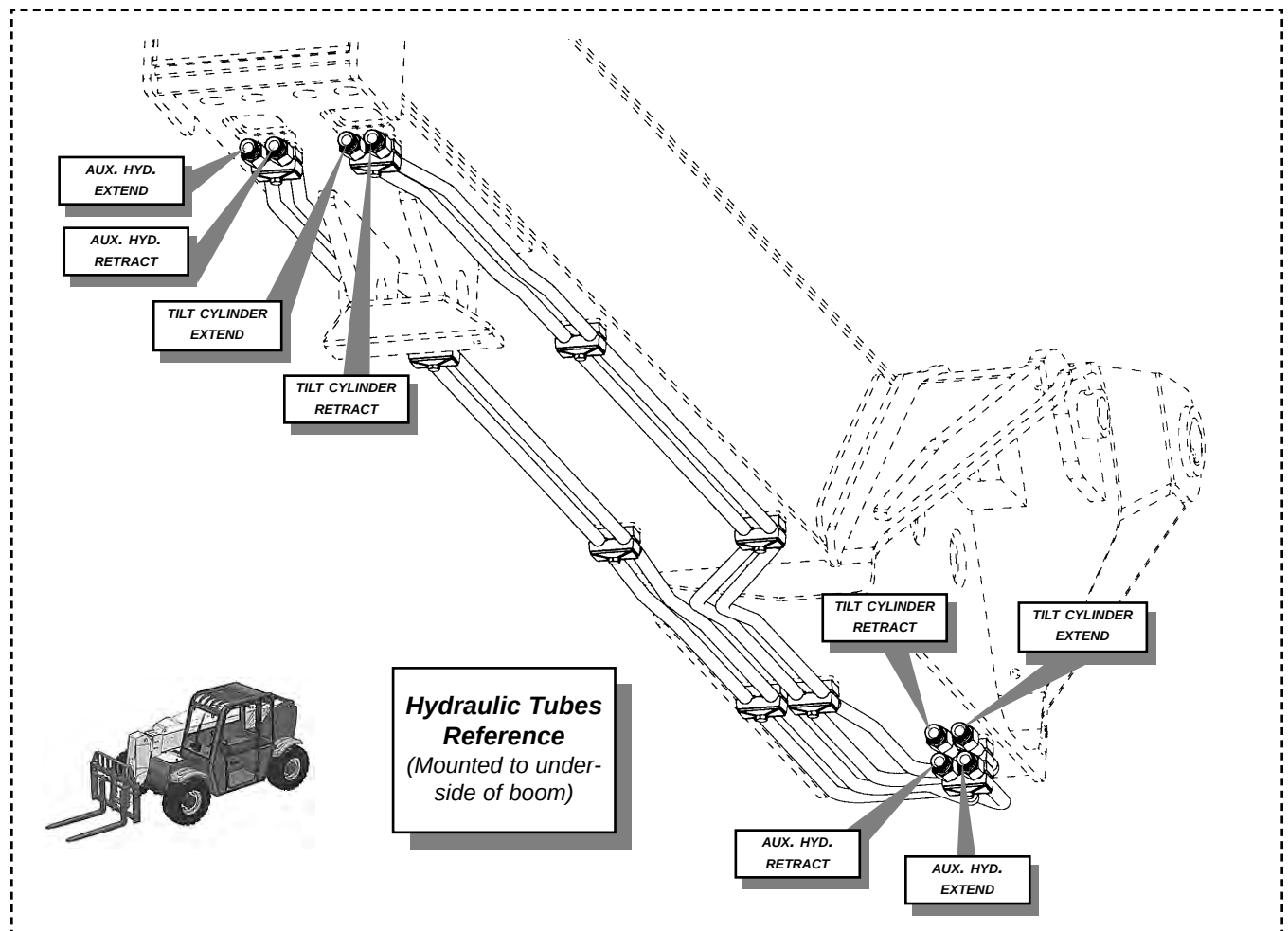
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	650493	3/8"X2-3/4" BOLT	3	19 ^b	210456	HOSE, -6 A8/P-364 270" TWIN.	1
02	210605	PIN, SLAVE (rod end)	1	20	103678	PIN, TILT (base end)	1
03	067847	3/8" NYLON INSERT NUT	AR	21	650818	3/8"X3" BOLT.	1
04	Note a	CYLINDER, SLAVE	1	22	Note a	CYLINDER, TILT	1
05	103720	PIN, SLAVE (base end)	1	23	L63272	PIN, TILT (rod end)	1
06	054816	ADAP., -8ORM -8JICM 90°.	AR	24	210625	HOSE, -8 A8/DL8 54"	2
07	210626	HOSE, -8 A8/A8 25"	1	25	072580	ADAP., -10ORM -8JICM STR	2
08	210626	HOSE, -8 A8/A8 25"	1	26	103926	CONTROL VALVE.	1
09	104705	VALVE, SLAVE ISOLATION	1	27	650547	5/16"x3-1/2" BOLT.	2
10	054626	ADAP., -8ORM -8JICM STR	1	28	654004	5/16" FLAT WASHER	2
11	210623	HOSE, -8 A8/H10 70"	1	-- ITEMS NOT SHOWN --			
12	210622	HOSE, -8 DL8/H10 55"	1				
13	L69832	CUSHION, CLAMP.	AR	--	210630	NYLON SLEEVE.	1
14	L69833	PLATE, CUSHION	AR			(used with items 7 and 8)	
15	650733	5/16"X2-1/3" BOLT	1				
16	210526	TUBE, TILT (retract)	1	a	Refer to page 130 and 132 for cylinder information.		
17	210525	TUBE, TILT (extend)	1				
18	650387	5/16"X1-1/2" BOLT	AR	b	Refer to page 92 for clamps to secure hose.		

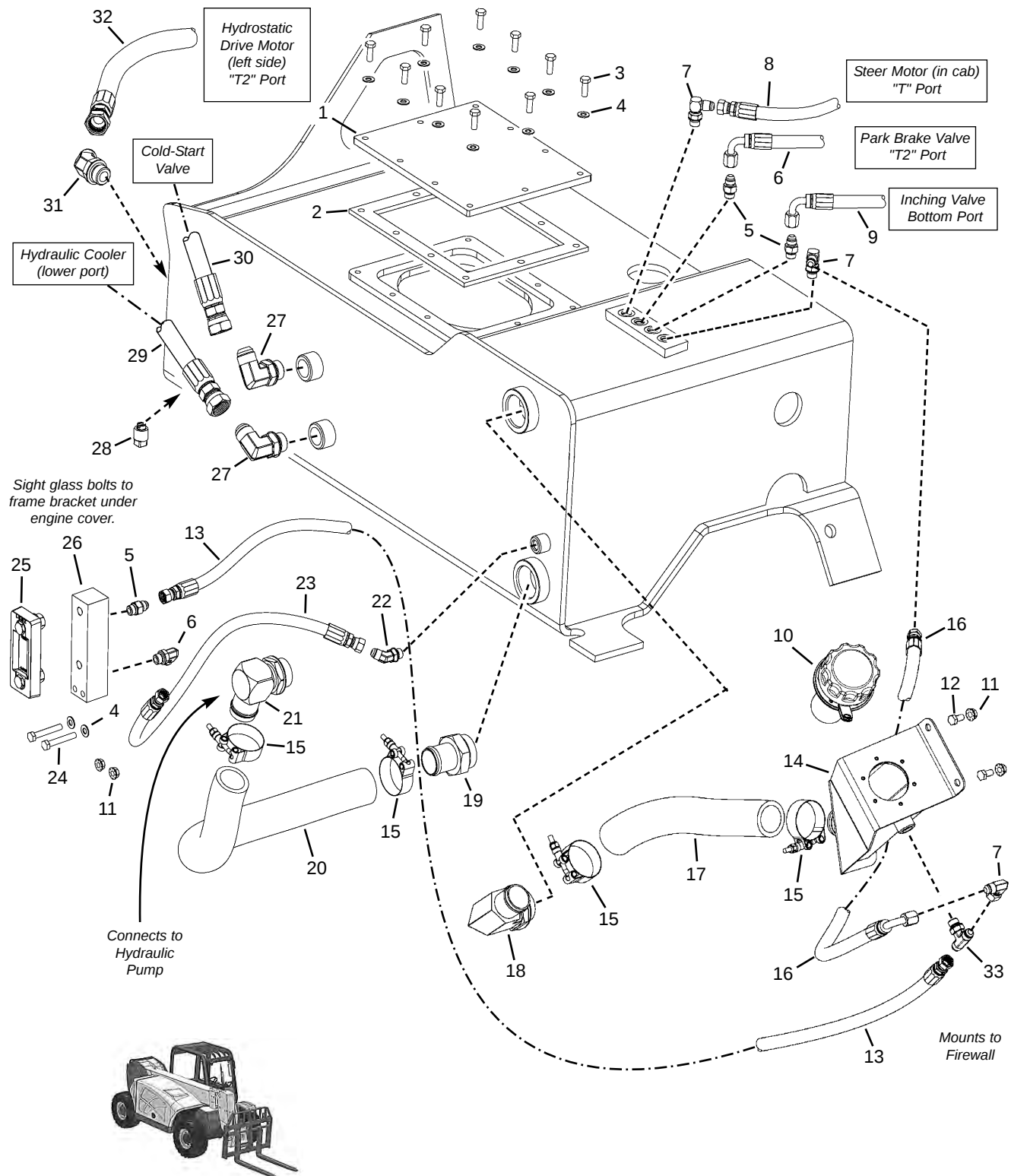


MT 5519 Telescopic Handler

Boom Hydraulics Auxiliary Hydraulics Group

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	103926	CONTROL VALVE.....	1	13 ^a	210457	HOSE, -6 A8/P-364 300" TWIN....	1
02	072580	ADAP., -10ORM -8JICM STR.....	2	14	L63715	PLATE, CLAMP.....	2
03	210621	HOSE, -8 H10/DM8 70".....	1	15	L520004	5/16" NYLON INSERT NUT.....	4
04	210621	HOSE, -8 H10/DM8 70".....	1	16	054626	ADAP., -8ORM -8JICM STR.....	2
05	210524	TUBE, AUXILIARY.....	1	17	L65273	COUPLER SET.....	1
06	210523	TUBE, AUXILIARY.....	1				
07	L69832	CUSHION, CLAMP.....	AR			-- ITEMS NOT SHOWN --	
08	L69833	PLATE, CUSHION.....	AR	--	210630	NYLON SLEEVE.....	1
09	650733	5/16"X2-1/3" BOLT.....	1			(used with items 3 and 4)	
10	650387	5/16"X1-1/2" BOLT.....	AR				
11	L50877	5/16"X2-1/4" STUD.....	4				
12	L68039	CLAMP, TUBE.....	4	a		Hose clamps to secure hose to boom are shown on page 92.	

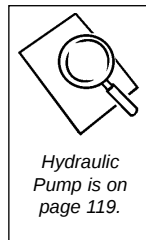
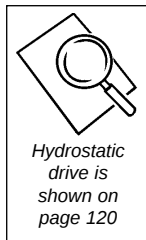
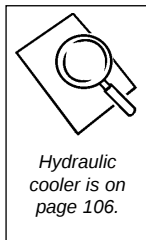




MT 5519 Telescopic Handler

Hydraulics Hydraulic Tank Group

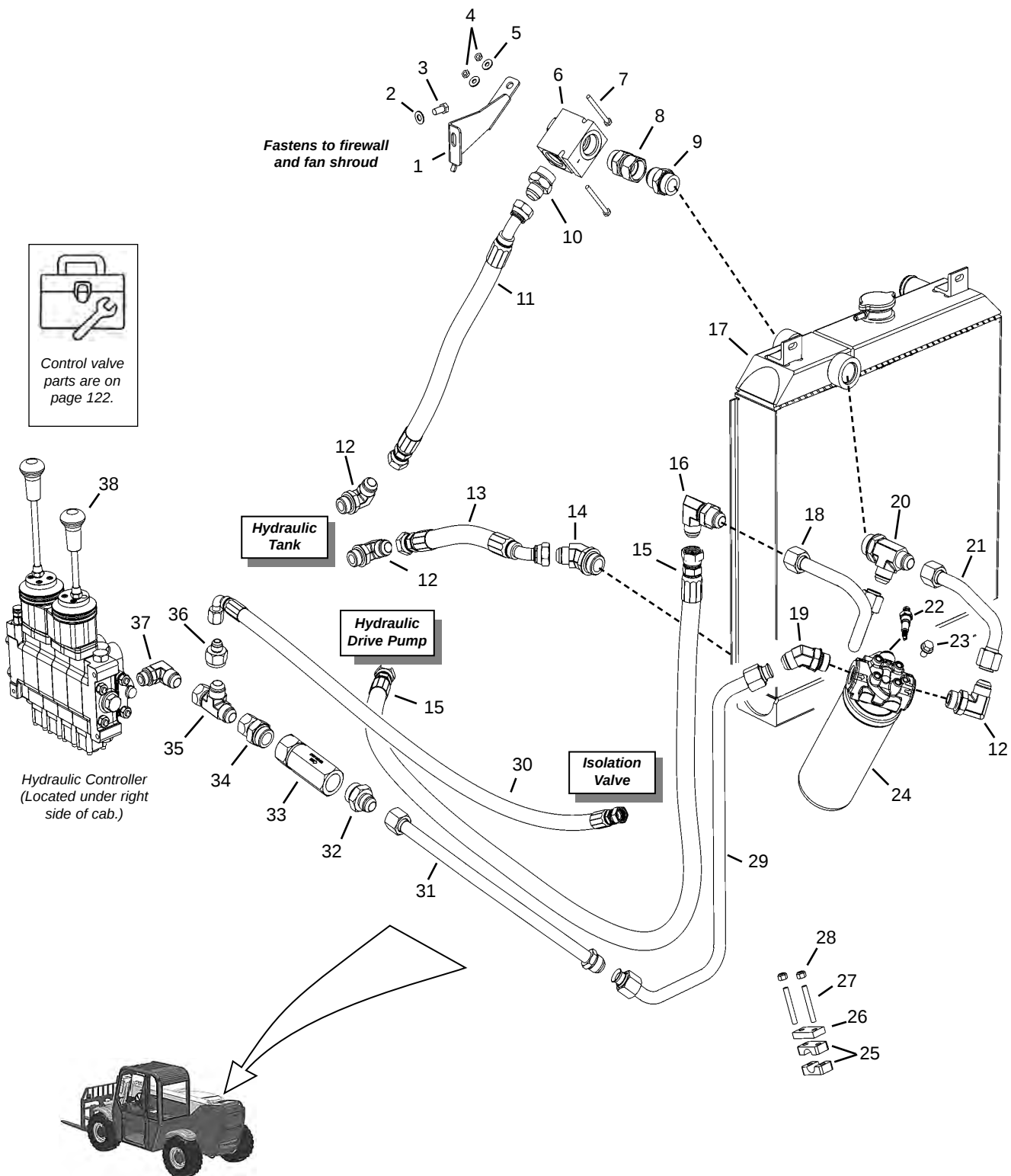
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	105233	TANK COVER	1	17	50380922	HOSE, -24" X 12-1/2"	1
02	L65144	GASKET, RUBBER	1	18	104924	90 HB24-MAORB24	1
03	650489	CS 3/8" x 7/8" C5ZY	10	19	230-32593	ST HB24-MORB24	1
04	654049	FW 3/8" ZY	AR	20	105738	HOSE, 1-1/2" x 24"	1
05	054994	ST MJ06 MORB06	3	21	104027	90 HB24-MAORB20	1
06	104421	HOSE, -6 A6/DM6 30"	1			<i>(connects to hydrostatic drive pump)</i>	
07	068938	90 MJ06-MAORB06	5	22	079026	45 MJ06-MAORB06	1
08	104097	HOSE, -6 A6/DM8 34"	1	23	194376	HOSE, -6 A6/A6 24"	1
09	104747	HOSE, -6 A6/DM6 26"	1	24	650568	CS 5/16" x 2" C5ZY	2
10	104303	FILLER/CAP W/LOCK TAB	1	25	105505	FLUID LEVEL SIGHT GAUGE	1
	L500227	GASKET, CAP <i>(not shown)</i>	1	26	211198	MANIFOLD, TANK LEVEL	1
	L99163	GASKET, FILL NECK <i>(not shown)</i>	2	27	055005	90 MJ12-MAORB12	2
11	210-19470	LN FL SERR 5/16 CZY	4	28	L43221	PLUG, 1/2-14 MAGNETIC	1
12	650485	CS 5/16 x 5/8 C5ZY	2	29	50380258	HOSE, -12 A12/45S12 14-1/2"	1
13	103317	HOSE, -6 A6/A6 28"	1	30	50380252	HOSE, -12 A12/45S12 23"	1
14	50380790	HYDRAULIC FILL WELDMENT	1	31	055064	45 MJ12-MAORB12	1
15	104212	CLAMP, T-BOLT 2"	4	32	210627	HOSE, -12 A12/DS12 86"	1
16	140014	HOSE, -6 A6/DS6 31"	1	33	055981	TEE BR MJ06-MJ06-MAORB06	1



Hydraulics

MT 5519 Telescopic Handler

Hydraulic Circuit - Cooler and Filter

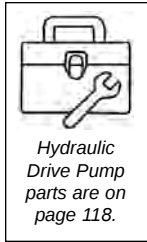


MT 5519 Telescopic Handler

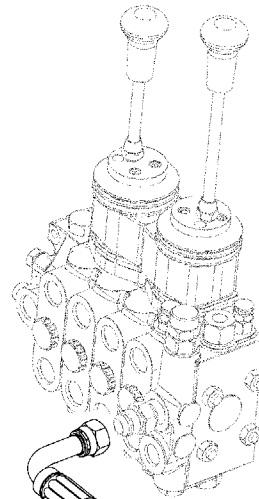
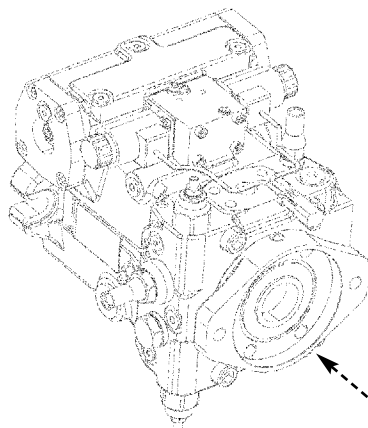
Hydraulics

Hydraulic Circuit - Cooler and Filter

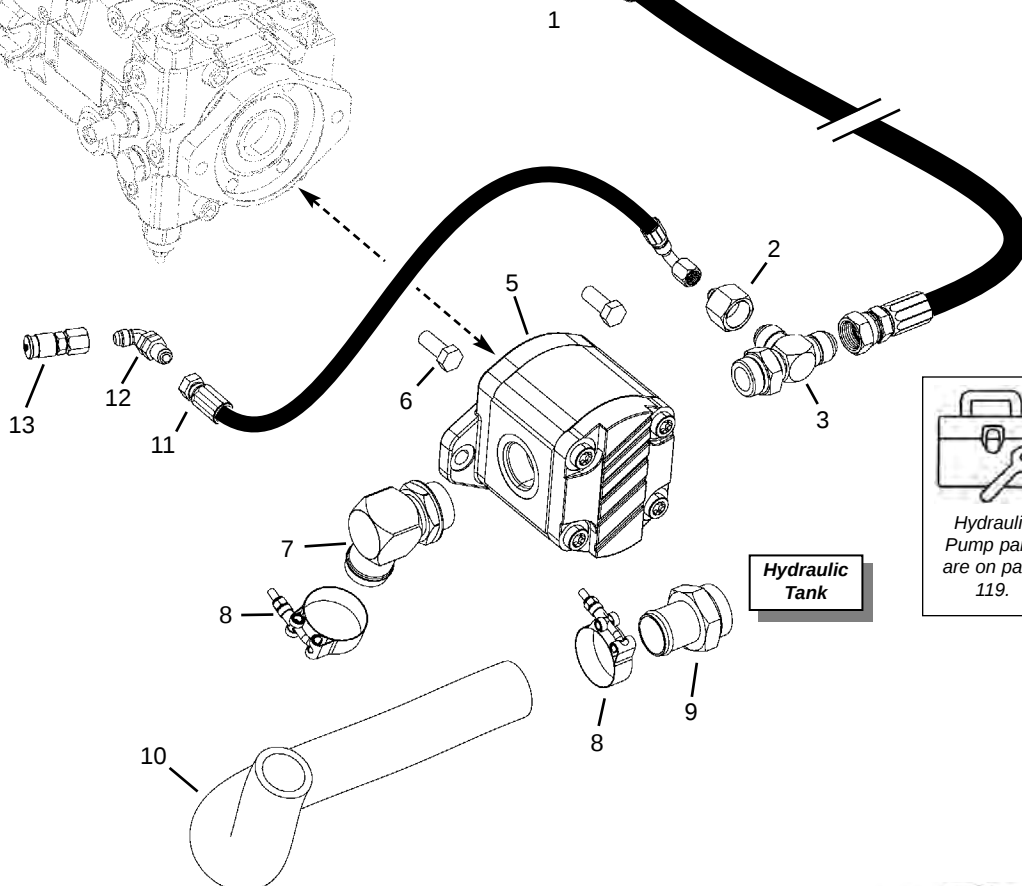
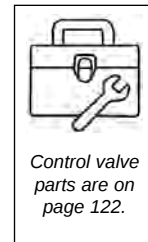
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	50380212	VALVE MOUNT	1	23	139438	CS FL LOCK 3/8 x 5/8 C5ZY	4
02	654049	FW 3/8 ANZY	1		651087	LW INTERNAL 3/8 AZY	1
03	650488	CS 3/8 x 3/4 C5ZY	1			(use one tooth washer for grounding)	
04	071401	HLN INST 1/4 CZY	2	24 ^a	272452	HYDRAULIC FILTER ASSEMBLY. .	1
05	654002	FW 1/4 AWZY	2		074830	FILTER ELEMENT (only)	1
06	244852	CHECK VALVE (cold start by-pass)	1	25	L70270	CUSHION, TUBE 3/4"	2
07	650958	CS 1/4 x 2-3/4 C5ZY	2	26	L67446	CUSHION PLATE	1
08	105080	ST MORB16-FJS16	1	27	L50877	STUD, 5/16" x 2-1/4" GR5	2
09	064644	ST MJ16-MORB16	1	28	L520004	NYLON INSERT NUT, 5/16"	2
10	121774	ST MJ12-MORB16	1	29	50380120	TUBE, RETURN OIL	1
11	50380252	HOSE, -12 A12/45S12 23"	1	30	102858	HOSE, -8 A8/DM8 46"	1
12	055005	90 MJ12-MAORB12	3	31	50380250	TUBE, RETURN OIL	1
13	50380258	HOSE, -12 A12/45S12 14-1/2"	1	32	L64853	ST MJ12 MORB16	1
14	121773	45 MJ12-MAORB16	1	33	105081	CHECK VALVE, 65 PSI	1
15	131683	HOSE, -12 A12/A12 68"	1	34	127953	ST MORB16-FJS12	1
16	230-32674	90 BLKHD MJ12-MJ12	1	35	056089	TEE MJ12-FJS12-MJ12	1
17	211194	RADIATOR/COOLER ASY.	1	36	230-32672	ST JICF12-JICM8	1
18	50380133	TUBE, CHARGE OIL	1	37	079108	90 MJ12-MAORB10	1
19	055064	45 MJ12-MAORB12	1	38	103926	CONTROL VALVE (joysticks)	1
20	272235	TEE RUN MJ12-MAORB16-MJ12. .	1				
21	50380125	TUBE, FILTER-COOLER.	1				
22	127747	SWITCH, FILTER RESTRICTION. .	1	a		Includes filter element (PN 074830) and filter restriction switch—item #22..	
		(included with item #24)					



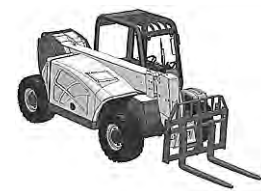
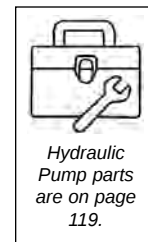
Hydraulic Drive Pump
(attached to engine)



Control Valve
(inside cab)



Hydraulic Tank



MT 5519 Telescopic Handler

Hydraulics

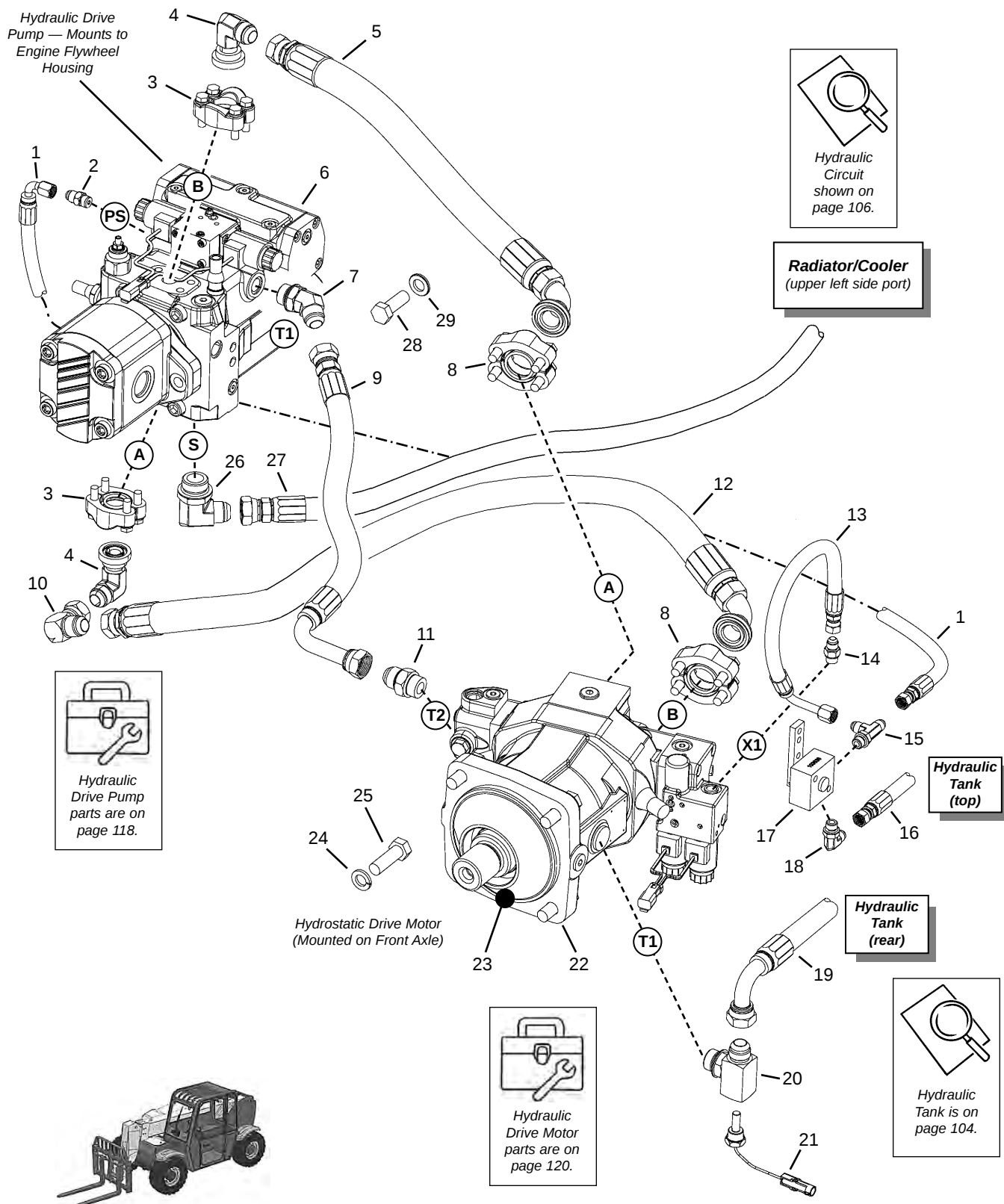
Hydraulic Circuit - Hydraulic Pump

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	104110	HOSE, -10 A12/DL10 37"	1	09	230-32593	ST HB24-MAORB24	1
02	L51493	REDUCER, FJ12-MJ06	1	10	105738	HOSE, 1-1/2" x 24" 100R4	1
03	272235	T RUN MJ12-MAORB12-MJ12	1	11	104761	HOSE, -4 A6/DM6 18"	1
05	211193	HYDRAULIC PUMP	1	12	098534	90 BLKHD MJ06-MJ06	1
06	650495	CS 1/2x1-1/4 C5ZY	2		654000	FW 1/2" ANZY (<i>not shown</i>)	2
07	104027	90 HB24-MAORB20	1	13	104378	TEST PORT, -6JICF	1
08	104212	CLAMP, T-BOLT 2"	2				

Hydraulics

MT 5519 Telescopic Handler

Hydraulic Drive Pump, Hydrostatic Motor, and Inching Valve



MT 5519 Telescopic Handler

Hydraulics

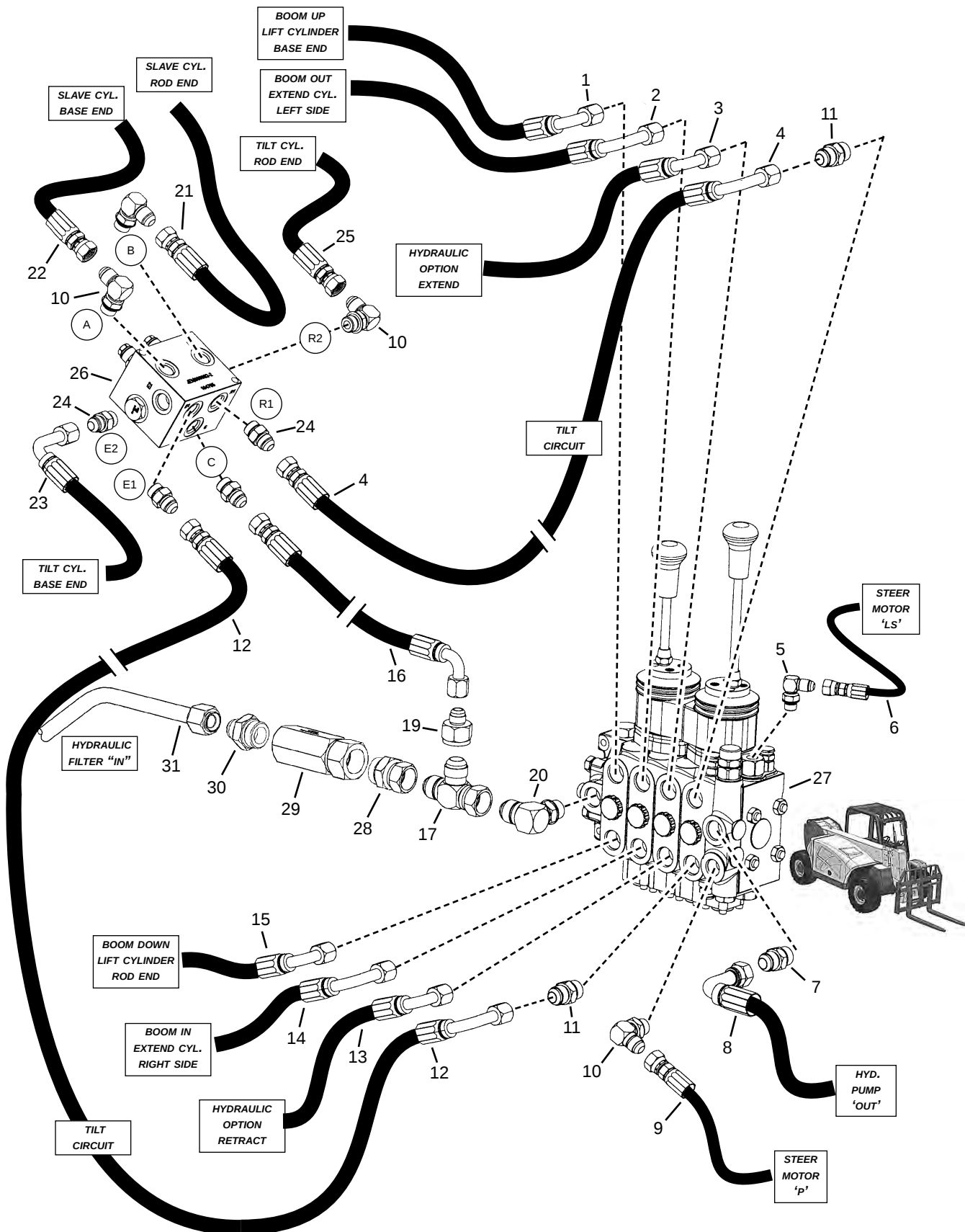
Hydraulic Drive Pump, Hydrostatic Motor, and Inching Valve

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	194703	HOSE, -6 A6/DL6 54"	1	17	103838	INCHING VALVE	1
02	054994	ST MJ06 MOR5B	1	18	068938	90 MJ06-MAORB06	1
03	137412	SPLIT FLANGE KIT, C62-12	2	19	210627	HOSE, -12 A12/DS12 86"	1
04	104218	90 MJ12-C62-12	2			(drive motor to rear of hydraulic tank)	
05	50380170	HOSE, -16 A12 C62-16 21.9"	1	20	210618	ADAP., HYD. TEMP. SWITCH.	1
06	211191	HYDRAULIC DRIVE ASSEMBLY	1	21	132049	TEMPERATURE SWITCH.	1
07	055064	45 MJ12 MAORB12	1	22	211247	MOTOR, HYDROSTATIC DRIVE	1
08	104026	SPLIT FLANGE KIT, C62-16	2	23	104591	O-RING (drive motor to front axle)	1
09	50380257	HOSE, -12 A12/DL12 23"	1	24	651676	LW M16 ZY DIN127	4
10	075235	90 MJ12 FJS12	1	25	651675	CS M16-2x50 C8.8 ZY DIN931	4
11	072587	ST MJ12-MORB12	1	26	121684	90 MJ12-MAORB16	1
12	50380170	HOSE, -16 A16 C62-16 22.9"	1	27	131683	HOSE, -12 A12/A12 68"	1
13	50380255	HOSE, -6 A6/DL6 18"	1			(refer to page 99, item 15)	
14	054994	ST MJ06-MORB06	1	28	650844	CS 5/8" x 1-3/4" C5ZY	2
15	054820	TEE RUN MJ06-MAORB06-MJ06	1	29	193161	FW M16 (hardened)	2
16	104747	HOSE, -6 A6/DM6 26"	1				

Hydraulics

Control and Isolation Valves

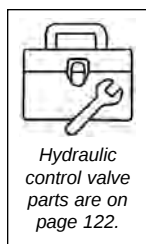
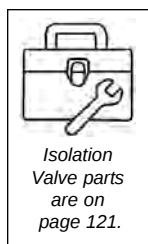
MT 5519 Telescopic Handler



Hydraulics

Control and Isolation Valves

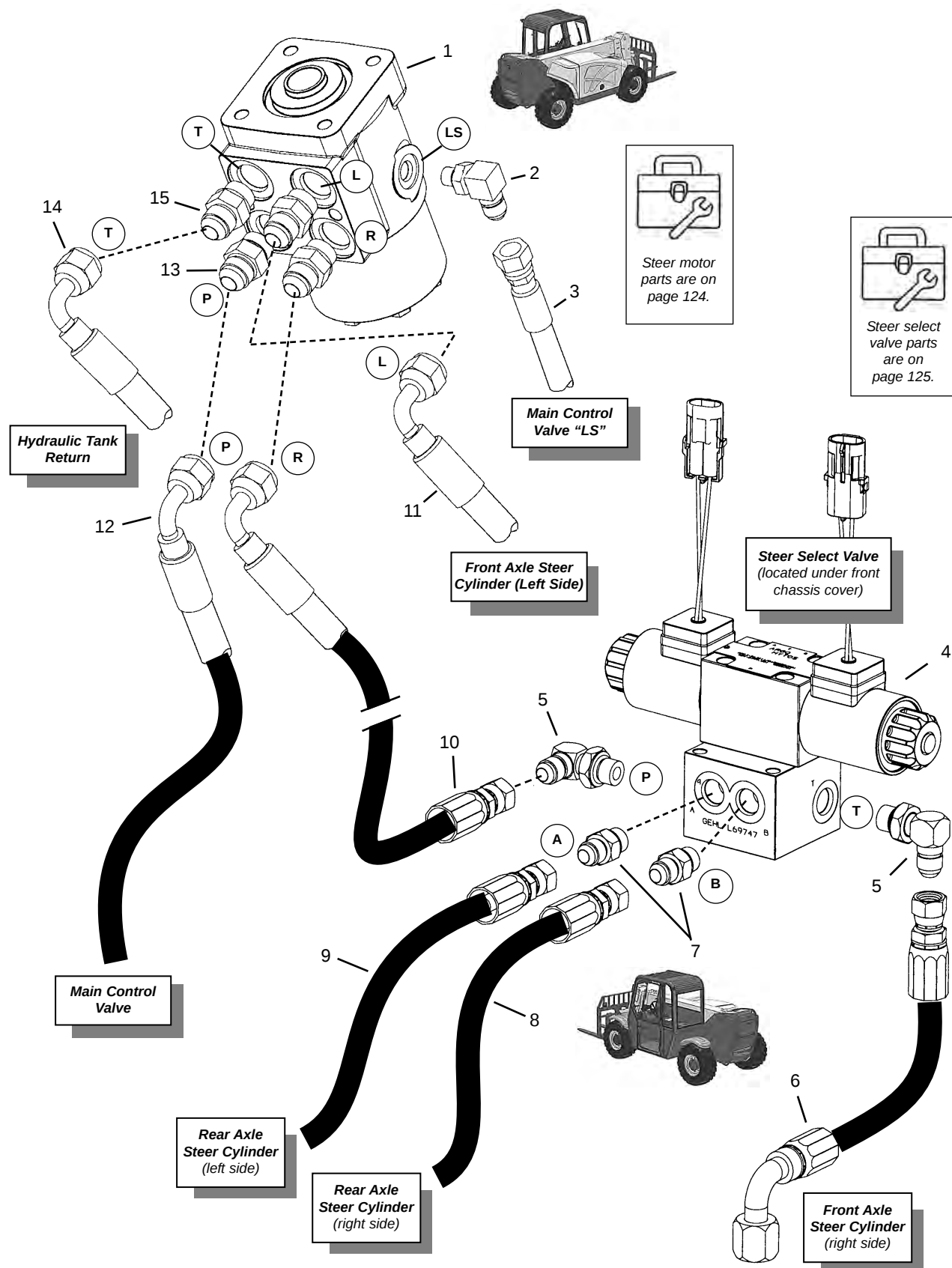
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	210620	HOSE, -8 A8/DM8 97"	1	25	210623	HOSE, -8 A8/H10 70"	1
02	210624	HOSE, -8 H10/DL8 68"	1	26	104705	VALVE, SLAVE ISOLATION	1
03 ^a	210621	HOSE, -8 H10/DM8 70"	1		L50243	5/16"X3-1/2" BOLT	2
04	210625	HOSE, -8 A8/DL8 54"	1		654004	5/16" FLAT WASHER	2
05	068938	ADAP., -6ORM -6JICM 90°	1	27	103926	VALVE, CONTROL	1
06	104746	HOSE, -4 A4/A6 36"	1		650733	5/16"X2-1/2" BOLT	2
07	072580	ADAP., -10ORM -10JICM STR	1		210-19470	LN FL SERR 5/16 CZY	2
08	104110	HOSE, -10 A12/DL10 37"	1		656001	M8X20 8.8 BOLT	1
09	104096	HOSE, -6 A8/DM8 36"	1		654004	5/16" FLAT WASHER	1
10	054816	ADAP., -8ORM -8JICM 90°	5	28	127953	ST MORB16-FJS12	1
11	089099	ADAP., -10ORM -8JICM STR	AR	29	105081	CHECK VALVE, 65 PSI	1
12	210625	HOSE, -8 A8/DL8 54"	1	30	121774	ST MJ12 MORB16	1
13 ^a	210621	HOSE, -8 H10/DM8 70"	1	31	50380250	TUBE, RETURN OIL	1
14	210624	HOSE, -8 H10/DL8 68"	1			(refer to page 106, item 31)	
15	210620	HOSE, -8 A8/DM8 97"	1				
16	102858	HOSE, -8 A8/DM8 46"	1			-- ITEMS NOT SHOWN --	
17	056089	ADAP., -12 SWVL. RUN TEE	1			(Hose Protection Sleeve)	
19	230-32672	ADAP., -12JICFS -8JICM STR	1	--	210630	SLEEVE, HOSE (4' long)	4
20	079108	ADAP., -10ORM -12JICM 90°	1				
21	210626	HOSE, -8 A8/A8 25"	1				
22	210626	HOSE, -8 A8/A8 25"	1	a		When the unit is not equipped with auxiliary	
23	210622	HOSE, -8 DL8/H10 55"	1			hydraulic option, use P/N 076879 ADAP.,	
24	054626	ADAP., -8ORM -8JICM STR	AR			-8 Cap.	



Hydraulics

Steer Motor and Steer Select Valve

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

Hydraulics

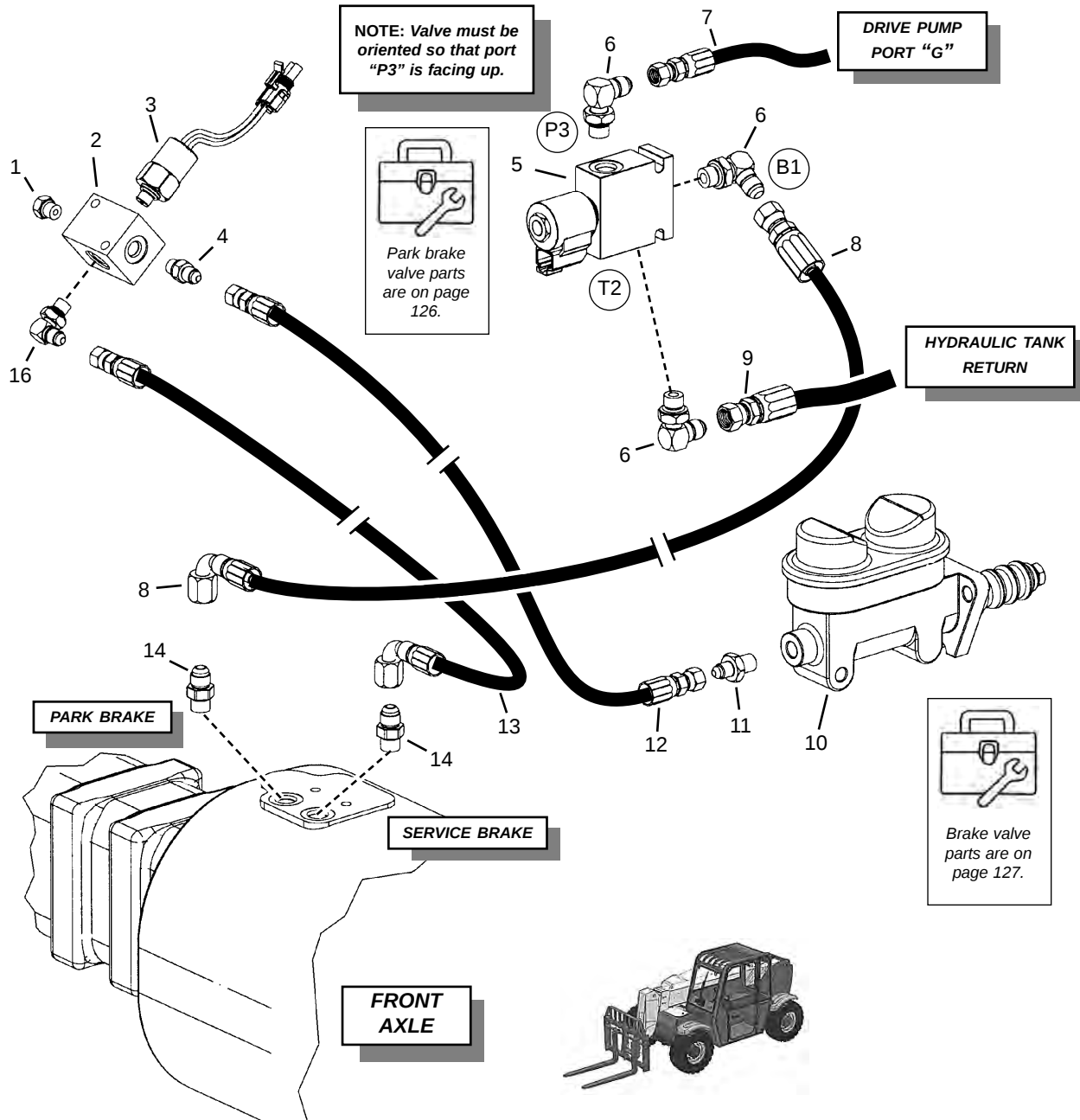
Steer Motor and Steer Select Valve

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	50304291	MOTOR, STEER	1	10	104095	HOSE, -6 A6/DM8 40"	1
02	095601	ADAP, -4ORM -4JICM 90°	1	11	104094	HOSE, -6 A8/DM8 32"	1
03	104746	HOSE, -4 A4/A6 36"	1	12	104096	HOSE, -6 A8/DS8 36"	1
04	L69747	VALVE, STEER SELECT	1	13	L64524	VALVE, CHECK, -8ORM	1
	L50535	1/4"X3" BOLT	2	14	104097	HOSE, -6 A6/DM8 34"	1
	L50051	1/4" WHIZ LOCK NUT	2	15	054626	ADAP, -8ORM -8JICM STR.	3
05	068938	ADAP, -6ORM -6JICM 90°	2	-- ITEMS NOT SHOWN -- (steer cylinders on front and rear axle)			
06	104093	HOSE, -6 A6/DM8 20"	1				
07	054994	ADAP, -6ORM -6JICM STR.	2	--	100011	ADAP, M18ORM -8JICM STR.	4
08	104088	HOSE, -6 A6/A8 106"	1				
09	104088	HOSE, -6 A6/A8 106"	1				

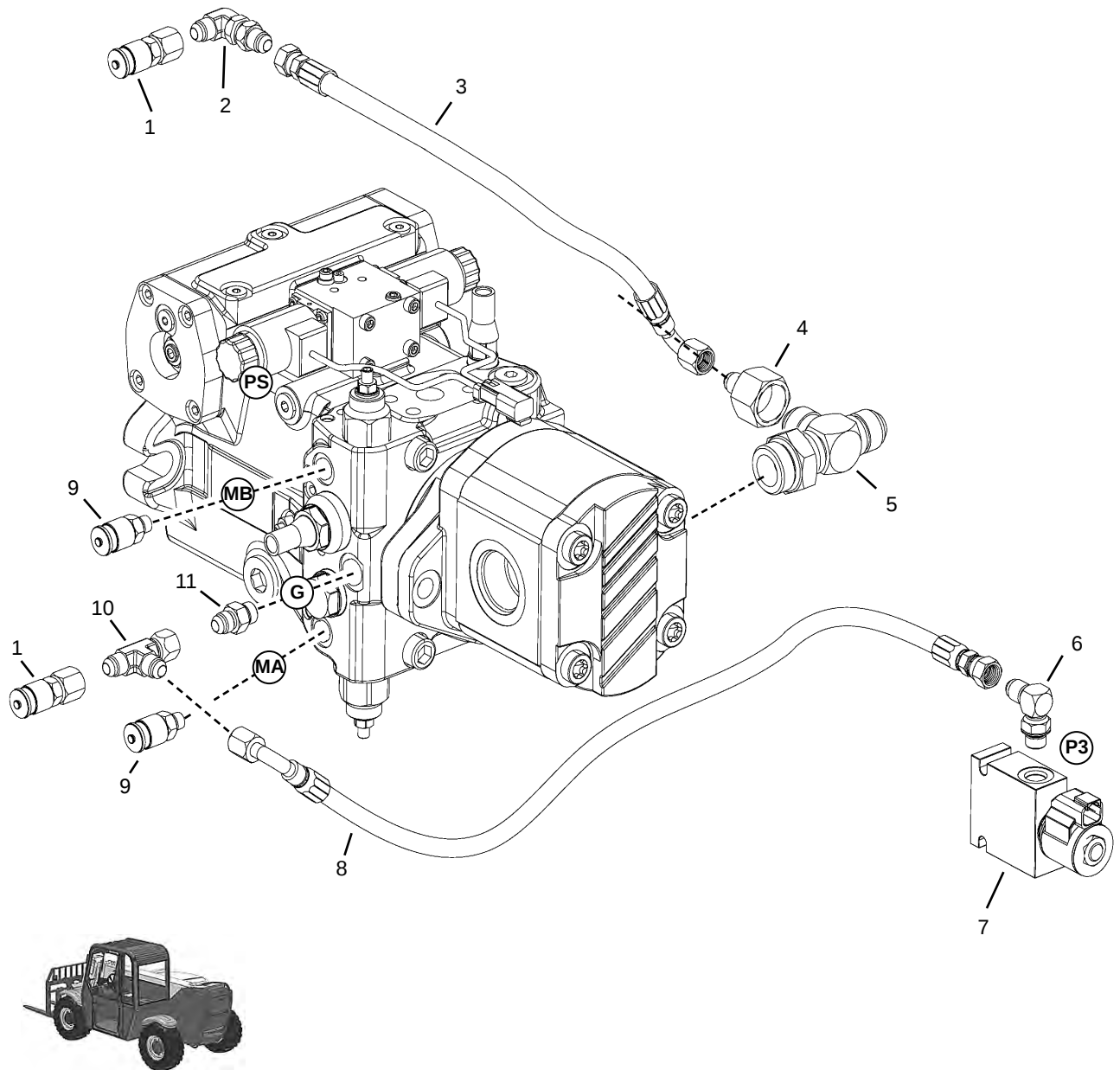
Hydraulics

Brake Valves

MT 5519 Telescopic Handler



Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	230-32364	PLUG, -4ORM SAE	1	07	104108	HOSE, -4 A6/DM6 36"	1
02	L70428	MANIFOLD, BRAKE	1	08	140014	HOSE, -6 A6/DS6 31"	1
	650706	1/4"X2" BOLT (not shown)	2	09	104421	HOSE, -6 A6/DM6 30"	1
	654002	1/4" FW (not shown)	2	10	L63363	VALVE, MASTER CYLINDER	1
	L50139	1/4" LOCK WASHER (not shown) ..	2	11	L62741	ADAP, HYDROMAX -4JICM STR ..	1
03	104428	SWITCH, PRESSURE 150 PSI.	1	12	104111	HOSE, -4 A4/A4 18"	1
04	230-32195	ADAP, -4ORM -4JICM STR.	1	13	104112	HOSE, -4 A4/DS6 16"	1
05	103618	PARKING BRAKE VALVE	1	14	L66139	ADAP, M14X1.50RM -6JICM.	2
	L50364	1/4"X1-1/2" BOLT	2	16	095601	ADAP, -4ORM -4JICM 90°.	1
	654002	1/4" FLAT WASHER	2	17	104748	HOSE, -6 A6/DM6 54"	1
06	068938	ADAP, -6ORM -6JICM 90°.	3				

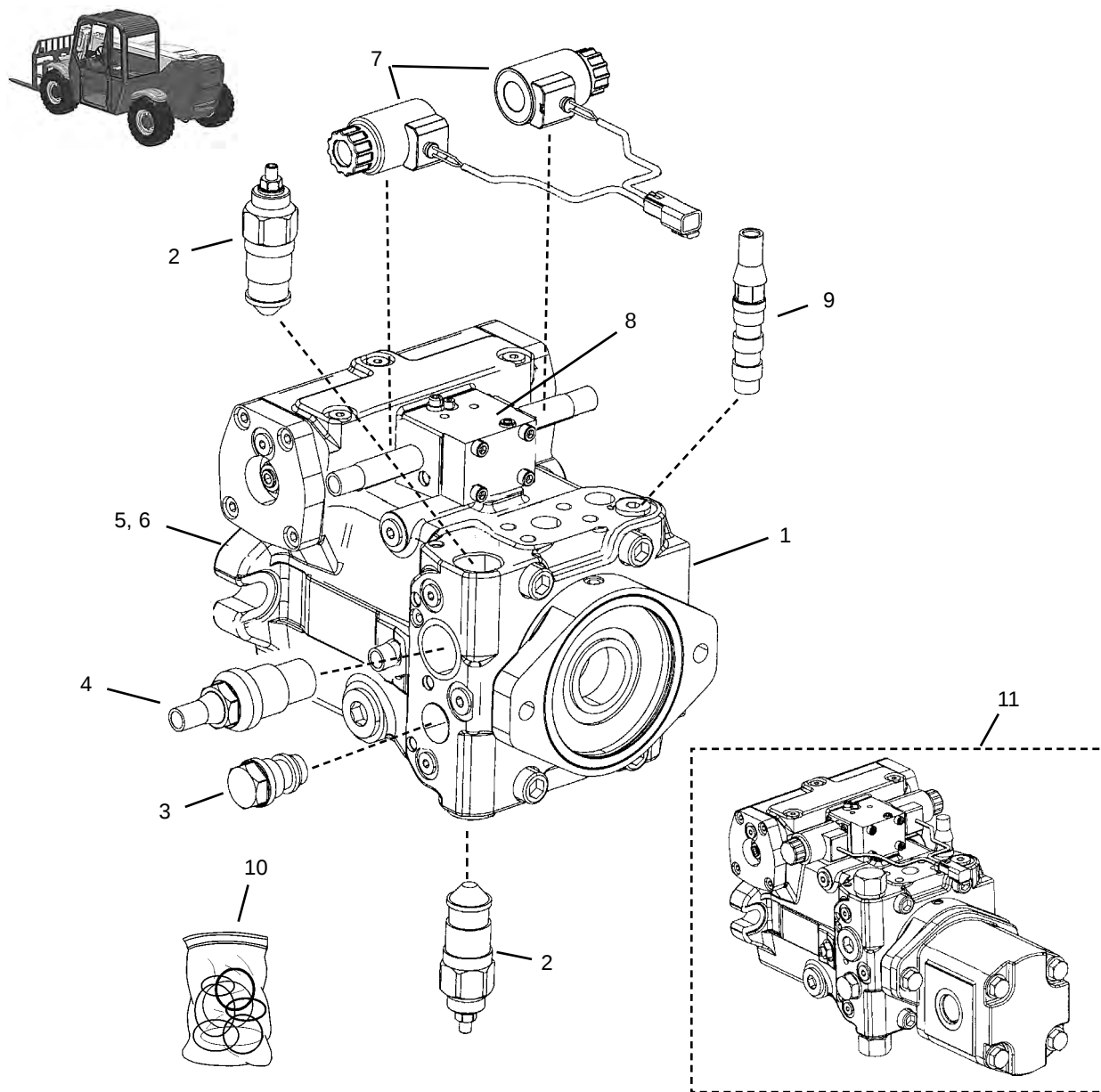


Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	104378	TEST PORT, -6JICF	2	07	103618	VALVE, PARK BRAKE.....	1
02	098534	90 BLKHD MJ06-MJ06	1	08	104108	HOSE, -4 A6/DM6 36".....	1
03	104761	HOSE, -4 A6/DM6 18".....	1	09	104377	TEST PORT, STAUFF20 -4ORB...	2
04	L51493	REDUCER, F12-JICM06.....	1	10	072806	SWVL TEE -6	1
05	272235	T RUN MJ12-MAORB12-MJ12 ...	1	11	054994	ST JICM06-MORB06.....	1
06	068938	90 JICM06-ORB06	1				

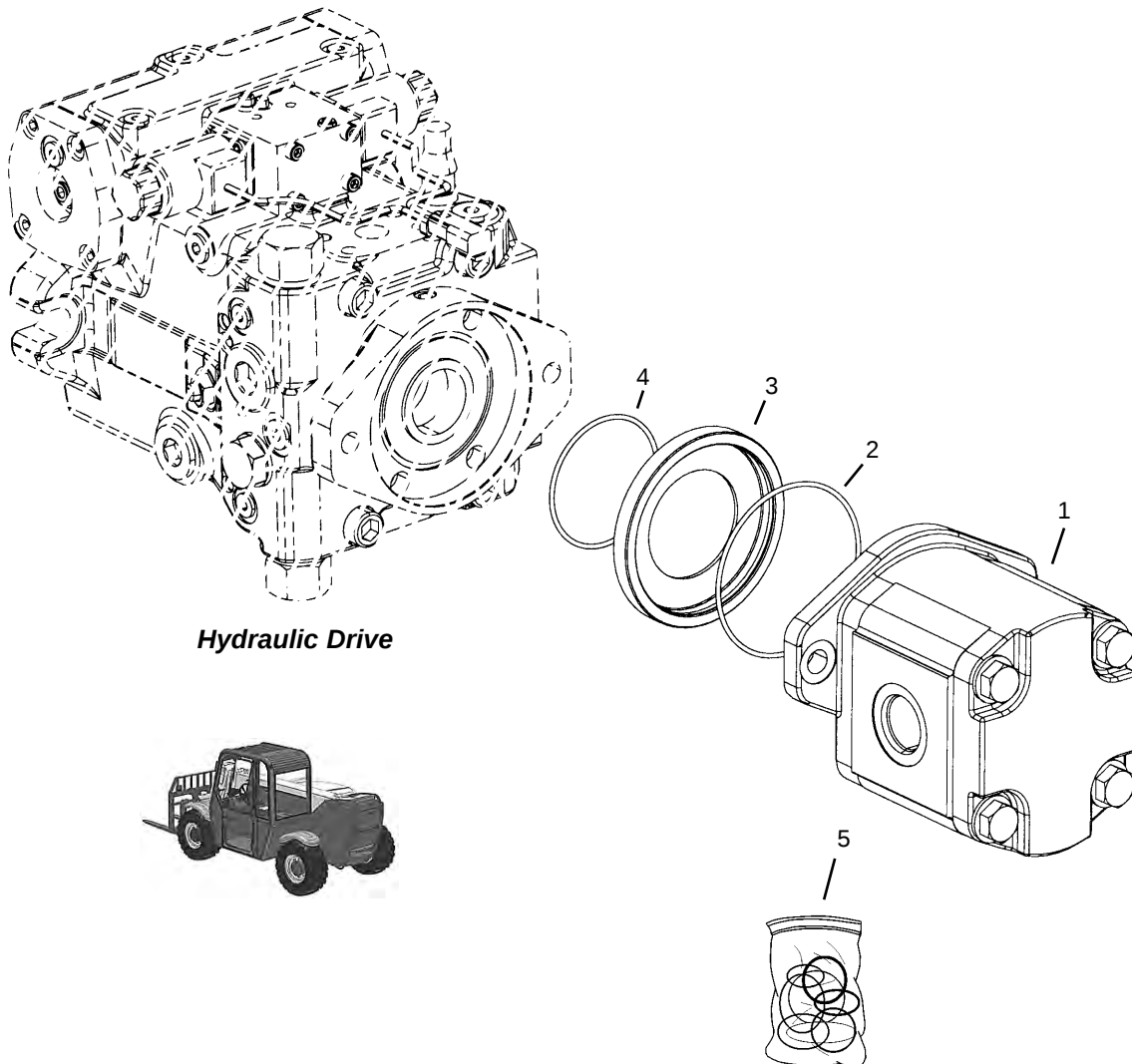
Hydraulic Components

MT 5519 Telescopic Handler

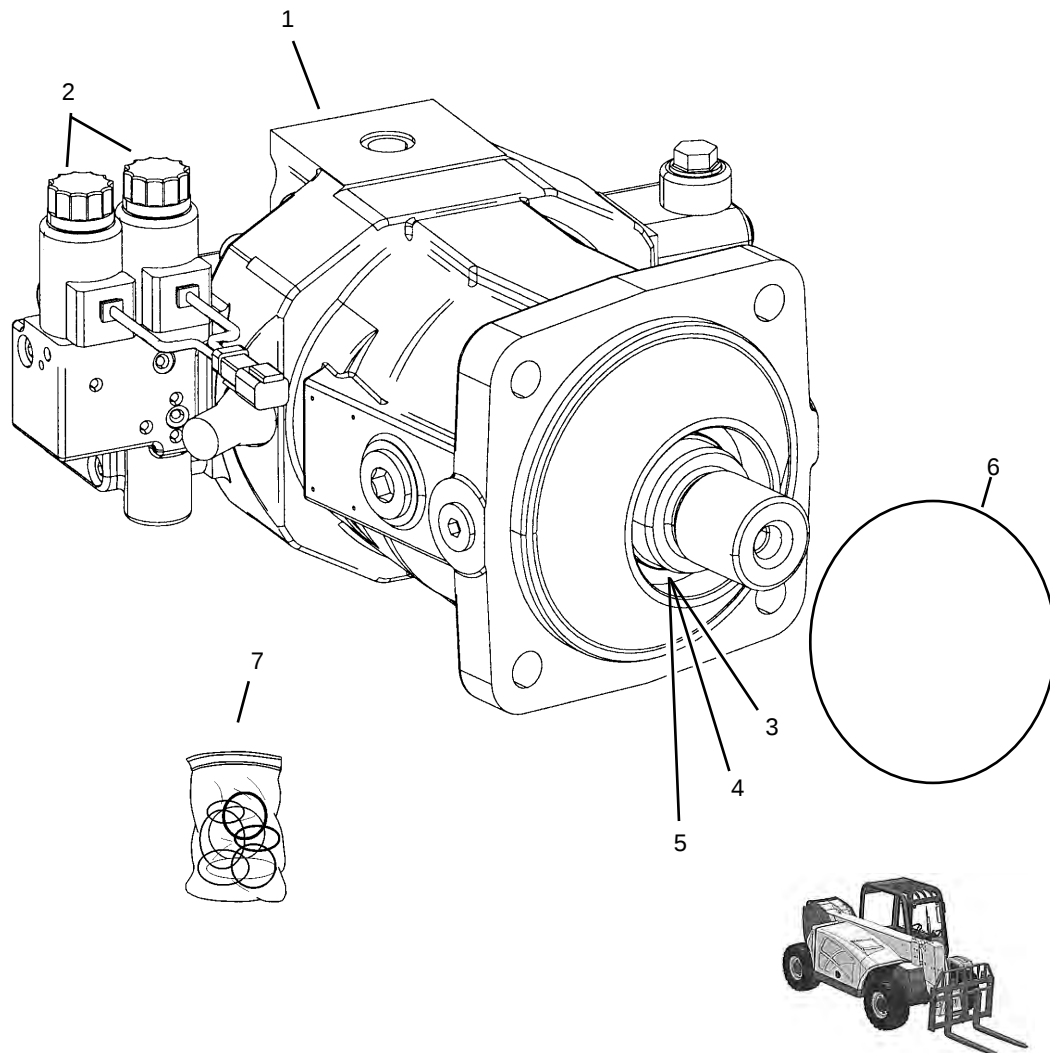
Hydraulic Drive Pump



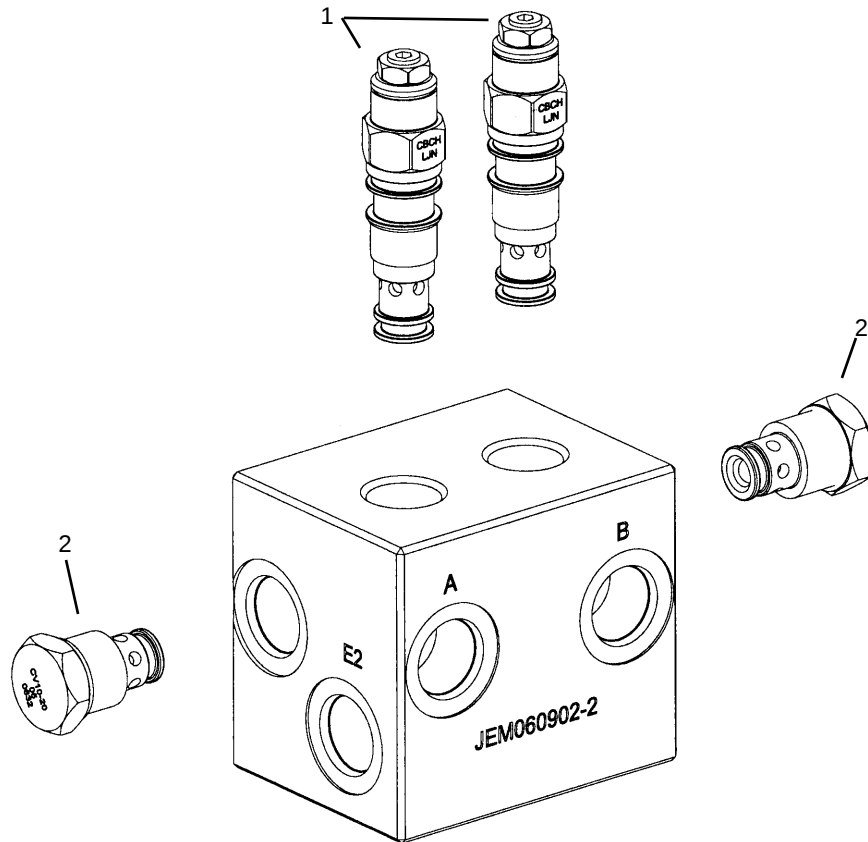
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01 ^a	NSS	HYDRAULIC DRIVE PUMP	1	10	104966	SEAL KIT / COMPLETE	1
02 ^b	104969	PRESSURE RELIEF VALVE	2	11	211191	HYDRAULIC DRIVE ASSEMBLY . .	1
03 ^b	104970	PRESSURE RELIEF VALVE	1				
04 ^b	104965	CONTROL VALVE	1	a	Order item #11 hydraulic drive assembly, which includes hydraulic pump P/N 211193		
05	104967	RETAINING RING	1				
06	104968	SHAFT SEAL RING	1	b	When ordering parts, provide the serial number of the drive pump to the factory parts department; some components may require a different part number than the one shown.		
07	104734	PAIR/SWITCHING SOLENOIDS . . .	1				
08 ^b	104964	4/3-WAY DIRECTIONAL VALVE . . .	1				
		(includes item 7)					
09 ^b	104971	PRESSURE OVERRIDE VALVE . . .	1				



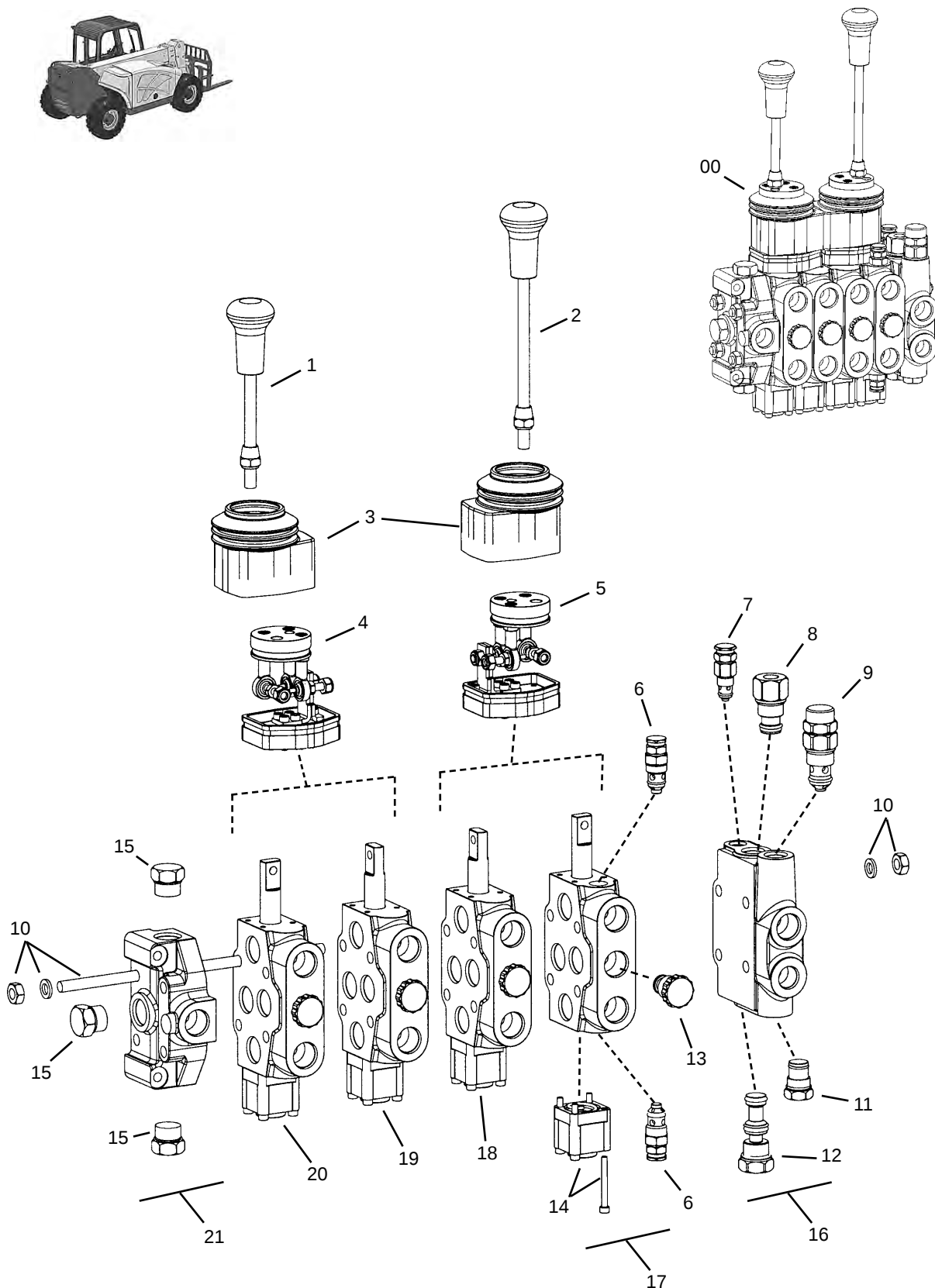
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01 ^a	211193	HYDRAULIC PUMP	1	05	104717	SEAL KIT	1
02	106876	O-RING	1			(individual seals not shown)	
03	106875	SPACER	1				
04	106877	O-RING	1	a		Included with hydraulic drive assembly.	



Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	211247	HYDRAULIC DRIVE MOTOR	1	06	104591	O-RING (drive motor to axle)	1
		(includes all items shown)				(included with front axle, not included with item 7.)	
02	104734	SOLENOID SET (pair)	1	07	104733	SEAL KIT, COMPLETE	1
03	104730	RETAINING RING (not shown)	1			(includes items 3-5 and all other seals for drive motor [not shown])	
04	104731	SHAFT SEAL RING (not shown)	1				
05	104732	BACKUP PLATE (not shown)	1				



Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
--	104705	ISOLATION MANIFOLD 1 (includes all parts shown)		01	104710	COUNTER BALANCE VALVE 2	
					L96838	SEAL KIT FOR CB VALVE AR	
				02	104711	CHECK VALVE 2	
					L99916	SEAL KIT 1	

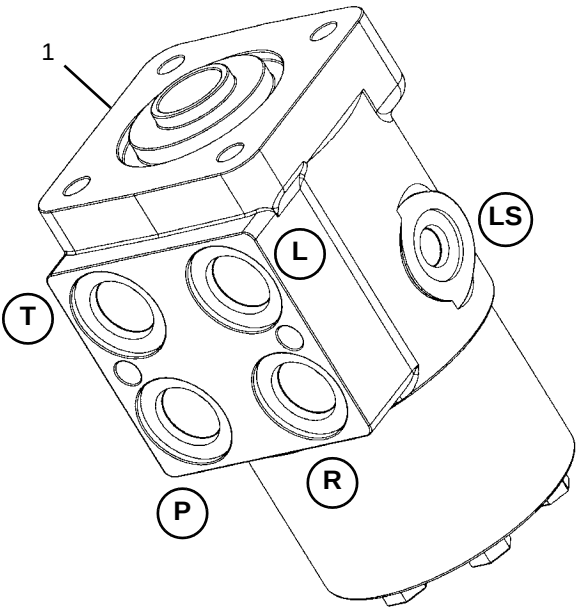


MT 5519 Telescopic Handler

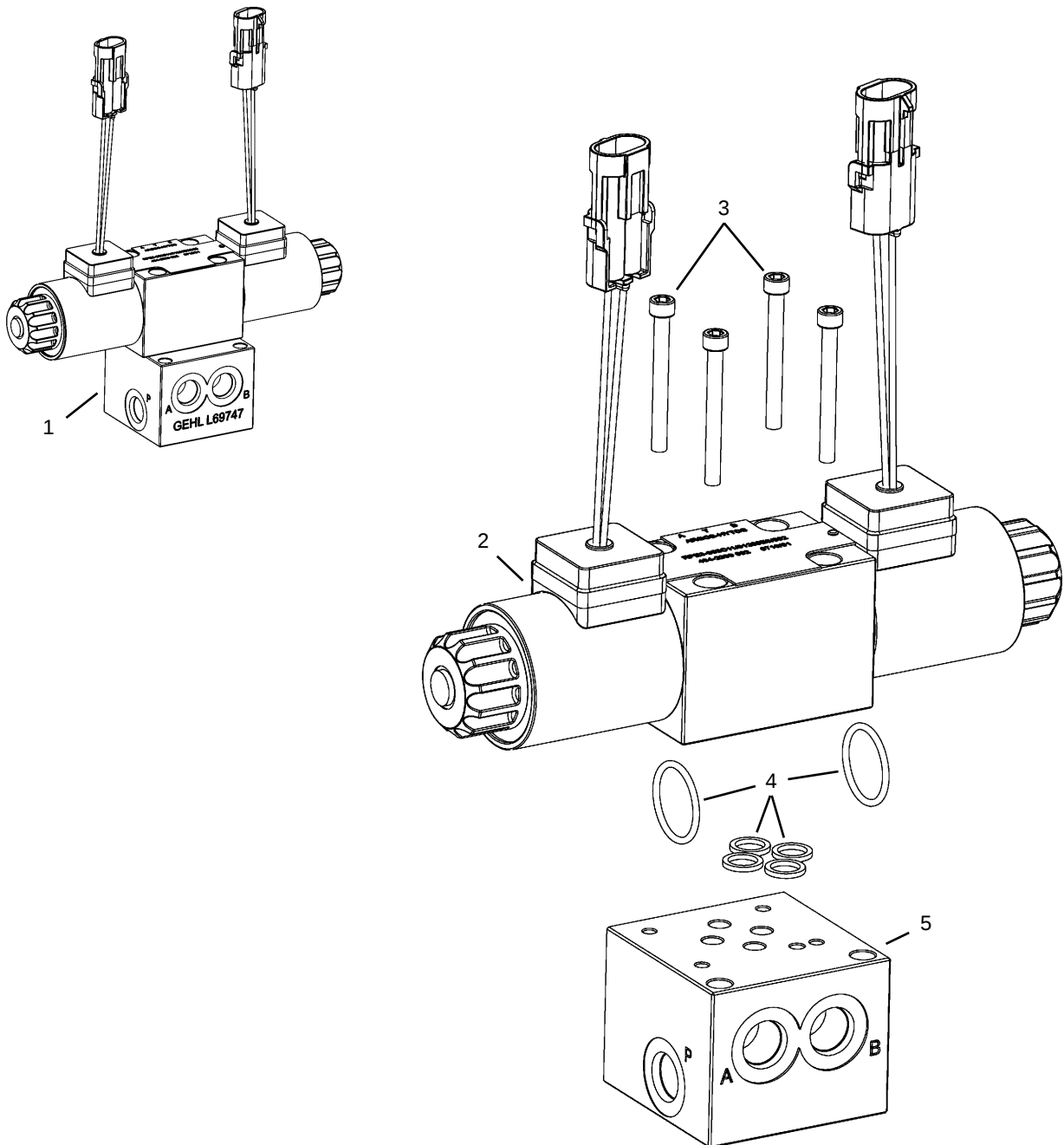
Hydraulic Components

Control Valve

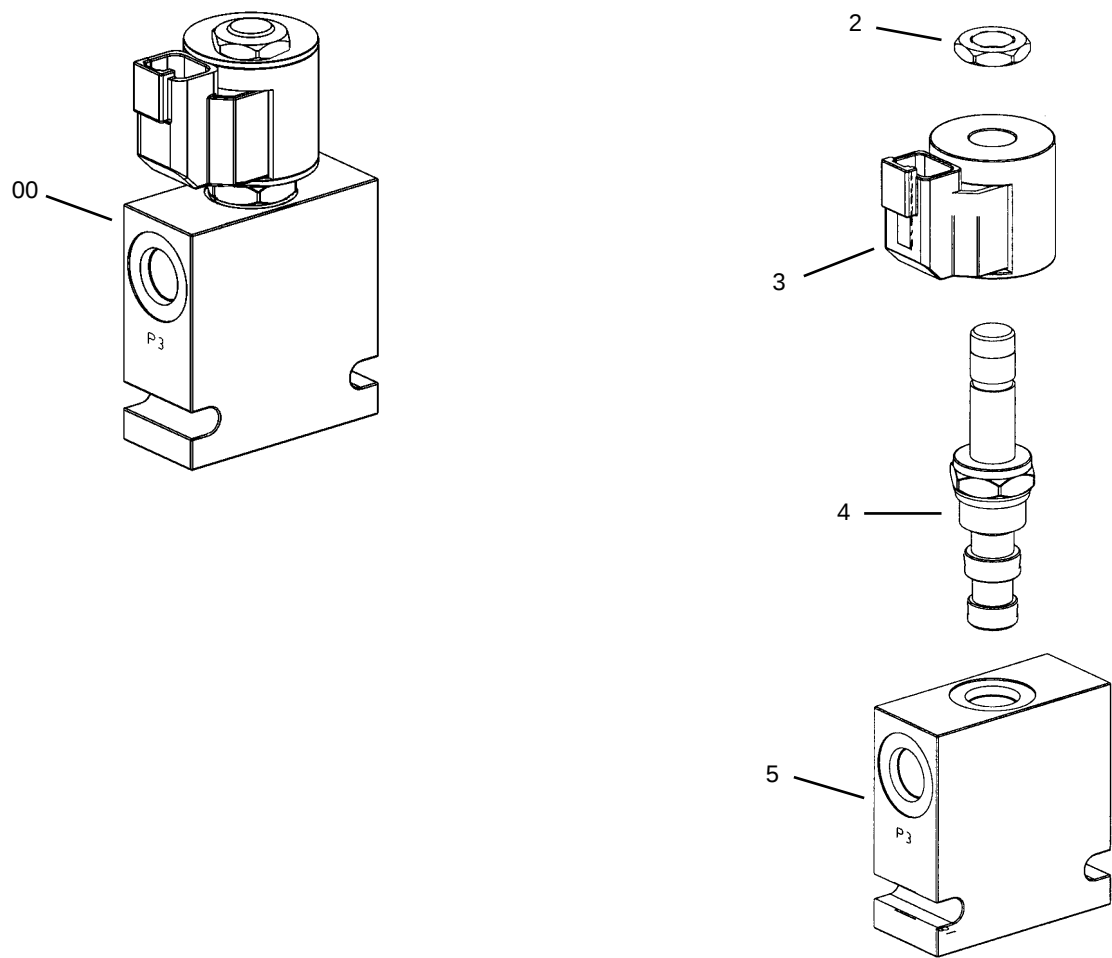
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
00 ^a	103926	MAIN VALVE [HC-D4/4] (<i>complete</i>)	1	16 ^b	104323	INLET SECTION	1
01	104123	CONTROL HANDLE, 6"	1			(<i>includes 7-9 and 11-12</i>)	
02	104124	CONTROL HANDLE, 8"	1	17 ^c	104324	WORK SECTION	1
03	104338	RUBBER BOOT	2			(<i>includes 6, 13 and 14</i>)	
04	104330	JOYSTICK CONTROL ASY.	1	18 ^d	104325	WORK SECTION	1
05	104329	JOYSTICK CONTROL ASY.	1	19 ^d	104326	WORK SECTION	1
06	104321	ANTI SHOCK VALVE 240-A	2	20 ^e	104327	WORK SECTION	1
07	104318	ANTI SHOCK VALVE 160-A bar . . .	1	21 ^f	104328	OUTLET SECTION	1
08	104317	PLUG KIT	1			(<i>includes 15</i>)	
09	104316	RELIEF VALVE 230 bar.	1			-- ITEMS NOT SHOWN --	
10	104331	STUD KIT	4			(<i>SEAL KITS</i>)	
		(<i>includes tie bolt, nuts and washers</i>)					
11	104315	PLUG KIT	1	a	104332	SEAL KIT, MAIN VALVE	1
12	104314	PLUG KIT	1	b	104333	SEAL KIT, INLET SECTION	1
13	103052	CHECK VALVE	4	c	104334	SEAL KIT, WORK SECTION.	1
14	104319	SPOOL RETURN ASY. (<i>F001A</i>) . . .	4	d	104335	SEAL KIT, WORK SECTION.	2
15	104322	PLUG KIT, 7/8"-14UNF	3	e	104336	SEAL KIT, WORK SECTION.	1
				f	104337	SEAL KIT, OUTLET SECTION	1



Item No.	Part No.	Description	Qty. Req.
01	50304291	STEERING CONTROL UNIT	1

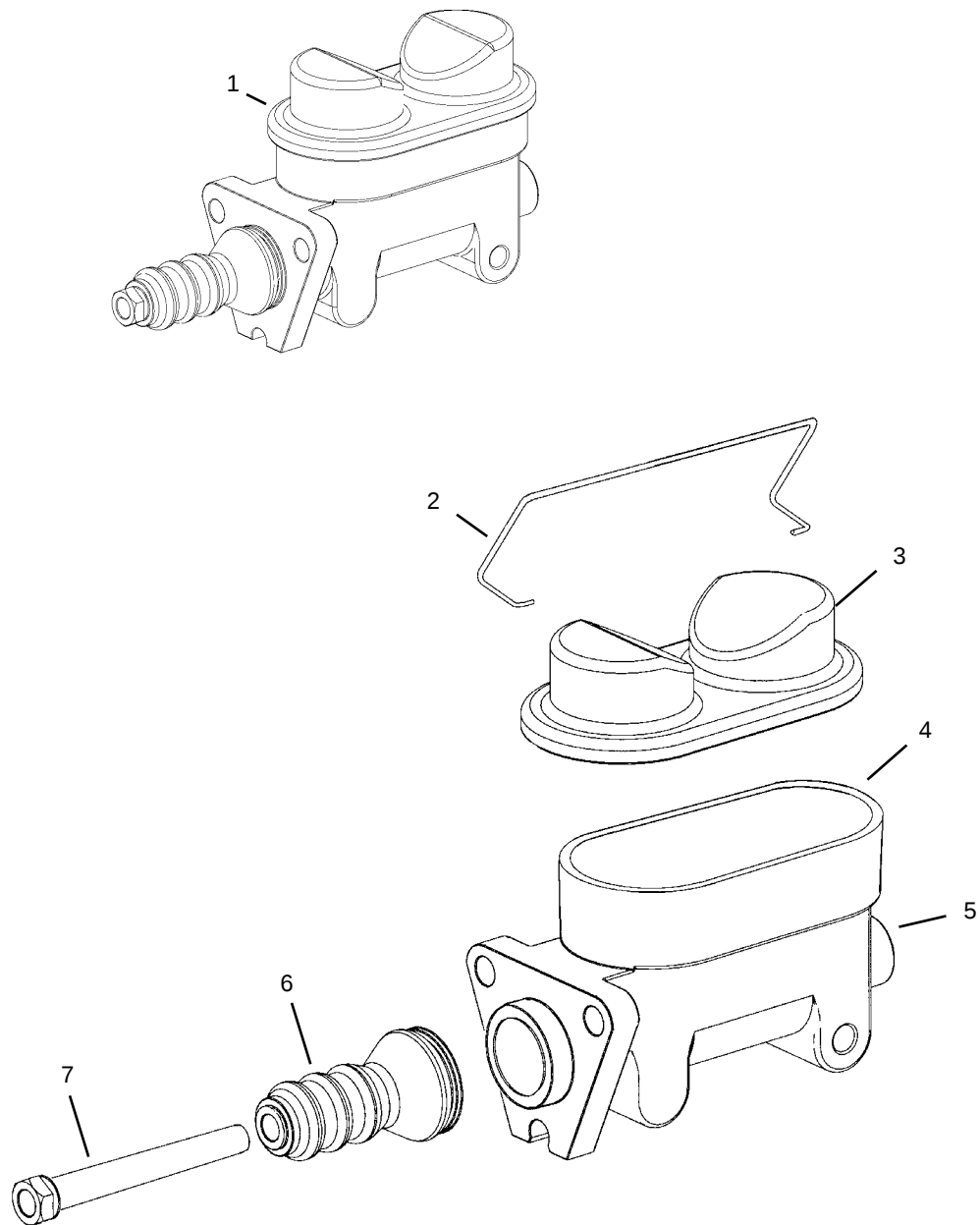


Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	L69747	STEER SELECT VALVE..... 1 (Includes items 1-5)	1	04	107000	SEAL KIT 1 (consists of the o-rings shown)	1
02	210018	WEATHER PAK VALVE..... 1	1	05	NSS	MANIFOLD 1	1
03	NSS	SHCS #10-24 x 1-3/4"..... 4 (included with item #1)	4				

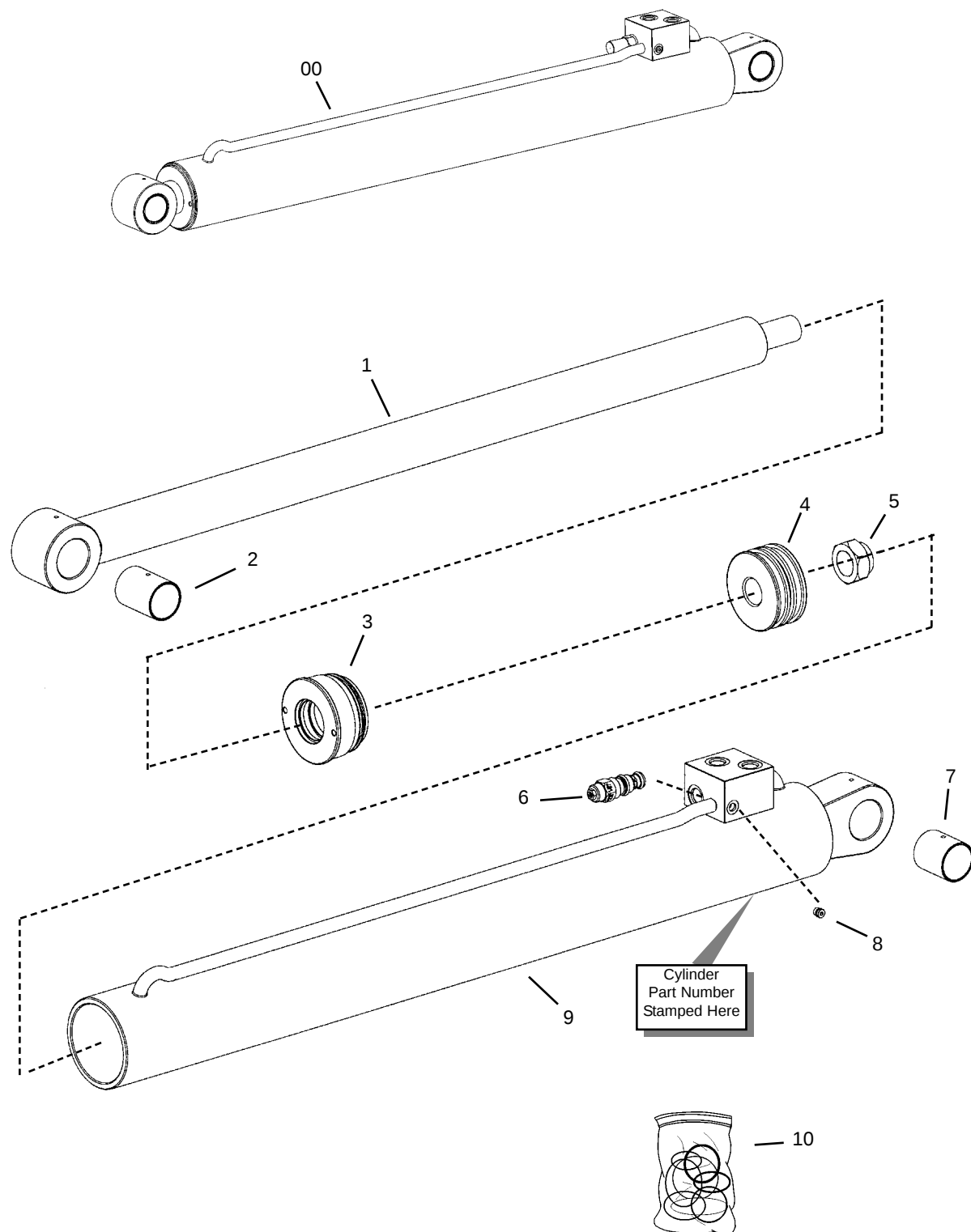


Item No.	Part No.	Description	Qty. Req.
01	103618	PARKING BRAKE VALVE 1 (includes all items shown)	
02	NSS	COIL NUT (included with item 4) . . . 1	
03	104736	COIL, WEATHERPAK 12VDC 1	

Item No.	Part No.	Description	Qty. Req.
04	L99910	VALVE/3WAY/2POS 1	
	L99911	SEAL KIT 1	
05	NSS	MANIFOLD 1	



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L63363	BRAKE VALVE ASY. (complete)		04	NSS	BODY	
		(machine requires two brake valves)		05	NSS	TUBE SEAT (not shown)	1
02	NSS	BAIL WIRE	1	06	L98536	RUBBER BOOT	1
03	NSS	COVER	1	07	NSS	PUSH ROD	1
	L98534	DIAPHRAGM GASKET	1				



MT 5519 Telescopic Handler

Hydraulic Cylinders

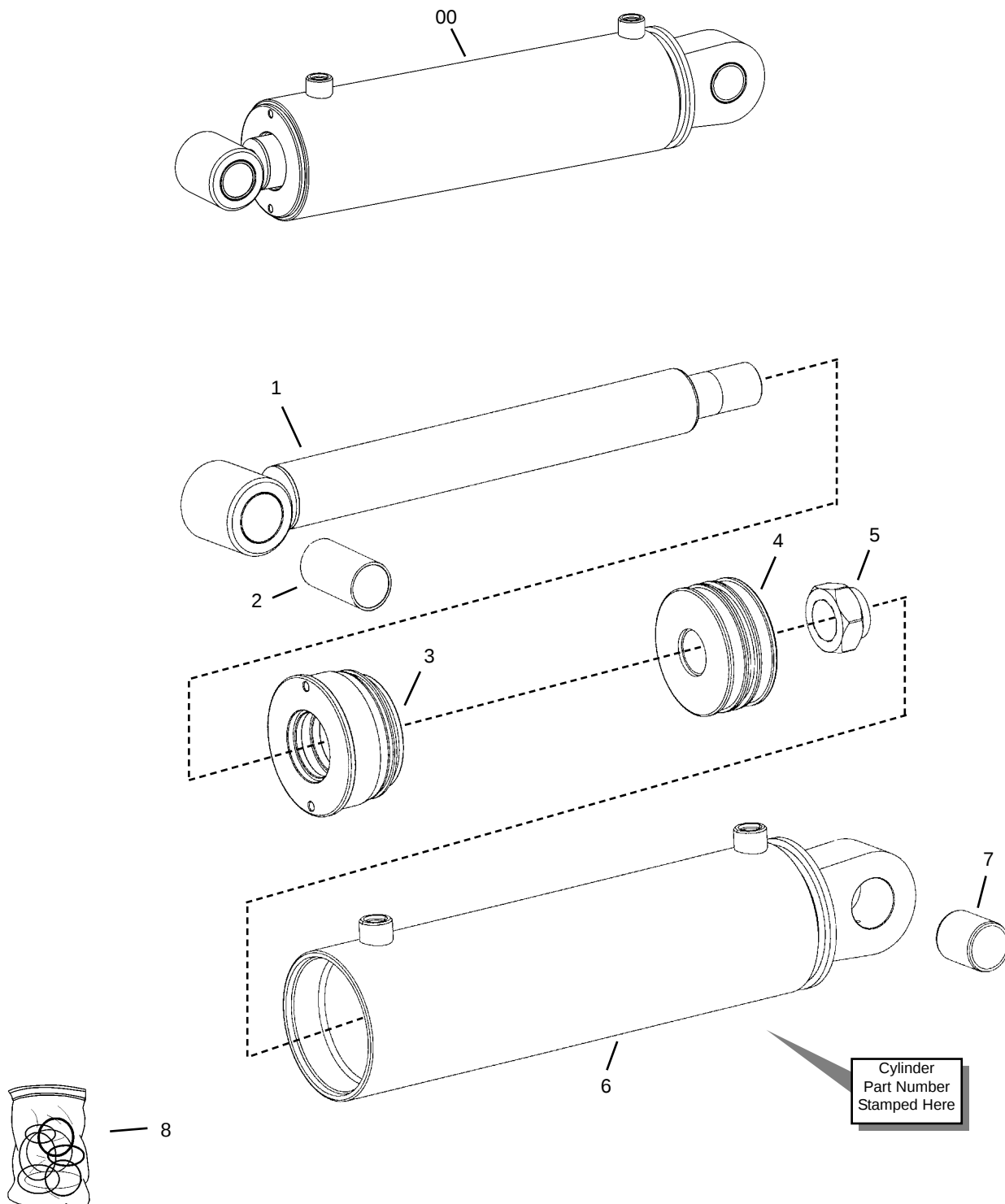
Lift Cylinder

Item No.	Part No.	Description	Qty. Req.
00	105596	LIFT CYLINDER (<i>complete</i>)	1
01	105875	ROD WELDMENT (<i>includes item 2</i>)	1
02	104812	BUSHING (2"X2-1/4"X3")	1
03	105874	HEAD GLAND	1
04	L500683	PISTON	1
05	L99214	LOCKNUT	1
06	104578	COUNTER BALANCE VALVE	1
	104819	SEAL KIT (CBV)	1

Item No.	Part No.	Description	Qty. Req.
07	104813	BUSHING (2"X2-1/4"X2-1/2")	1
08	L99917	SAE 4 PLUG	1
09	NSS	TUBE WELDMENT	1
10	105876	CYLINDER SEAL KIT (<i>seals included are not shown</i>)	1



NOTE: Before ordering service parts, be sure to verify that the cylinder is stamped 105596 as shown on the facing page.



MT 5519 Telescopic Handler

Hydraulic Cylinders

Slave Cylinder

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
00	105599	SLAVE CYLINDER <i>(complete)</i>	1	05	L99214	LOCKNUT	1
01	105863	ROD WELDMENT	1	06	NSS	TUBE WELDMENT	1
		<i>(includes item 2)</i>		07	104810	BUSHING <i>(1-1/2"X1-3/4"X3")</i>	1
02	104809	BUSHING <i>(1-1/2"X1-3/4"X3")</i>	1	08	105865	CYLINDER SEAL KIT	1
03	105861	HEAD GLAND	1			<i>(seals included are not shown)</i>	
04	L500683	PISTON	1				

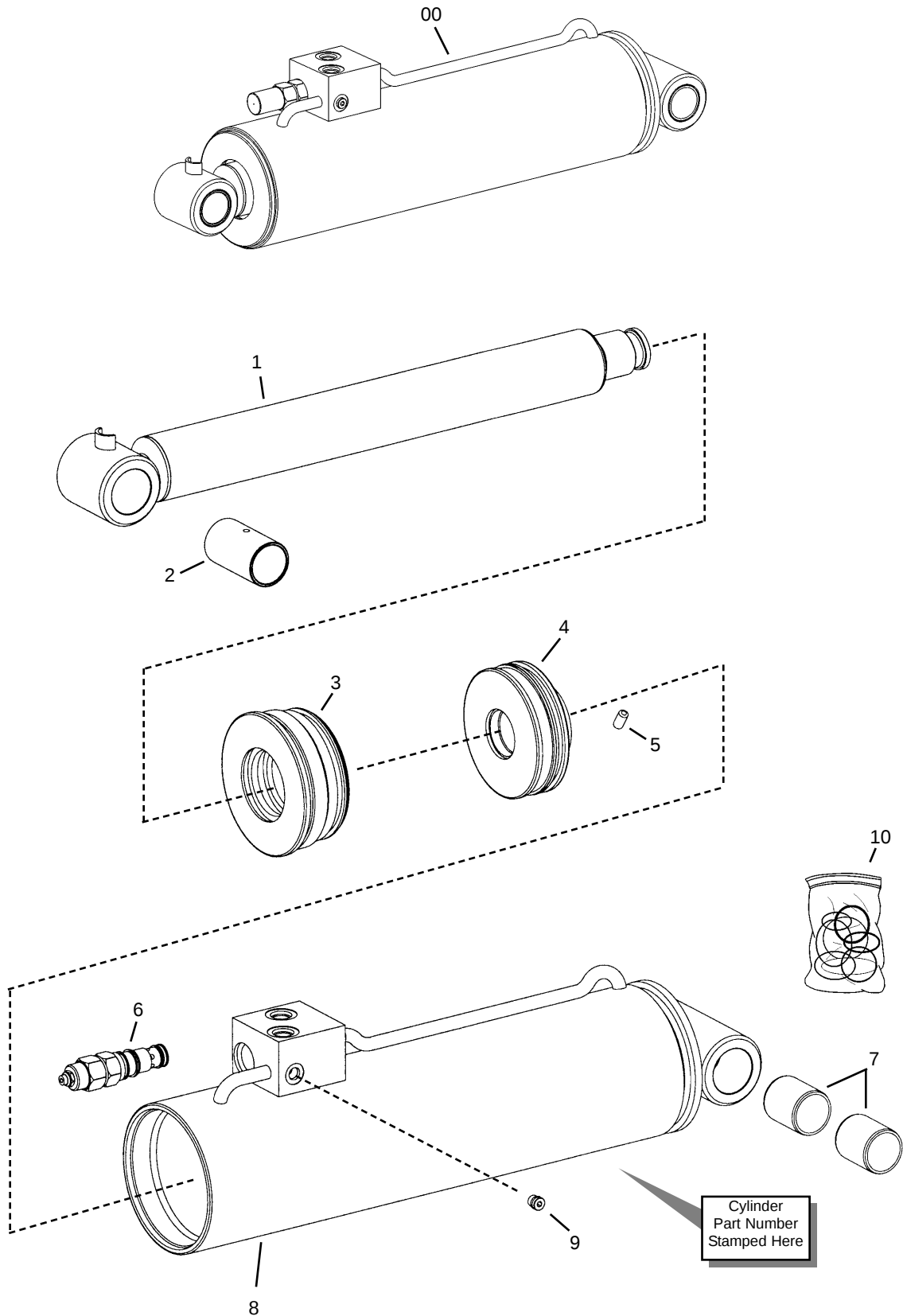


NOTE: Before ordering service parts, be sure to verify that the cylinder is stamped 105599 as shown on the facing page.

Hydraulic Cylinders

Tilt Cylinder

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

Hydraulic Cylinders

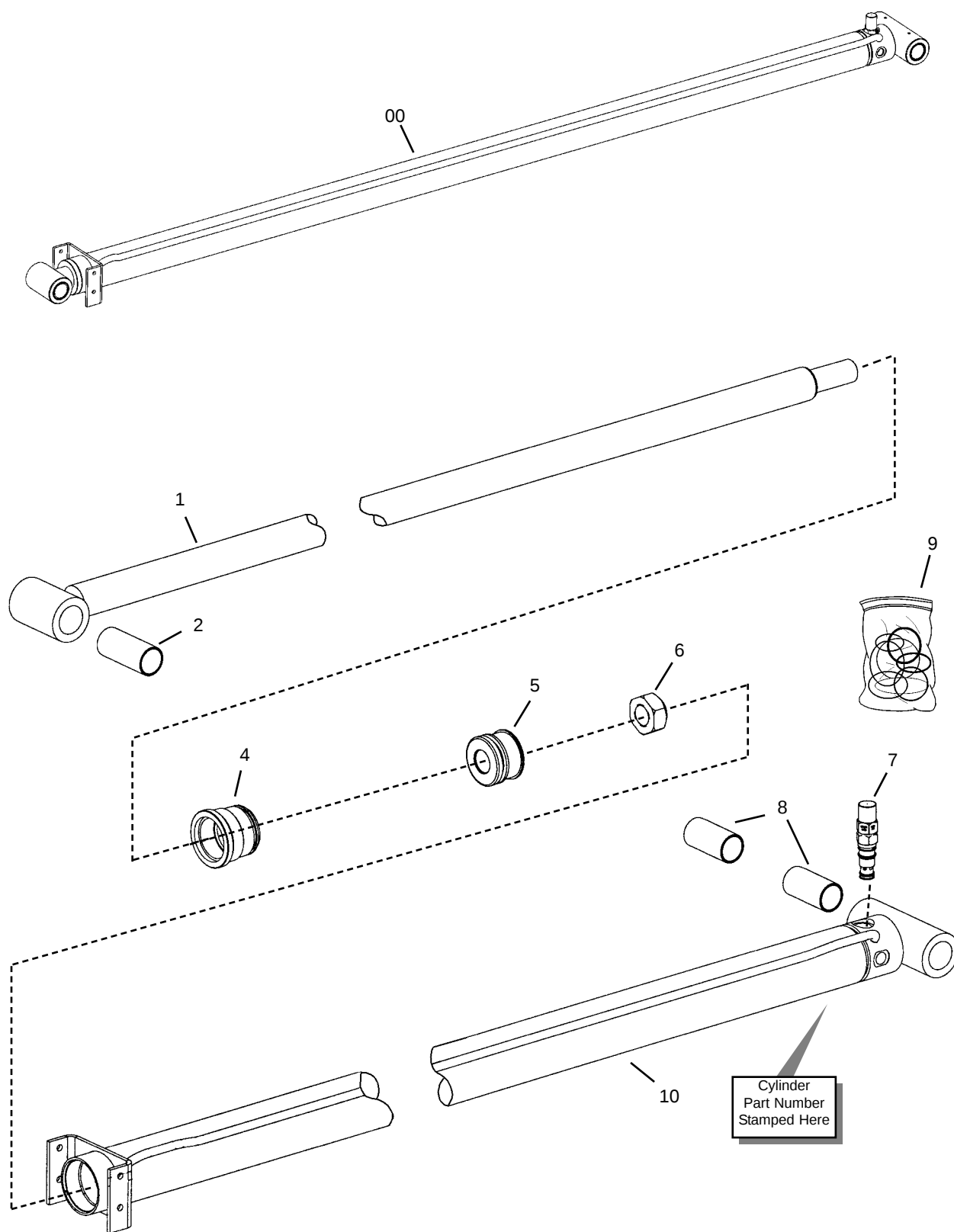
Tilt Cylinder

Item No.	Part No.	Description	Qty. Req.
00	105598	TILT CYLINDER <i>(complete)</i>	1
01	105869	ROD WELDMENT	1
		<i>(includes item 2)</i>	
02	104809	BUSHING <i>(1-1/2"X1-3/4"X3")</i>	1
03	105868	HEAD GLAND	1
04	105867	PISTON	1
05	105870	3/8"-16UNC X 0.75" SET SCREW . 1	
06	104578	COUNTER BALANCE VALVE.	1
	104819	SEAL KIT (CBV)	1
07	104811	BUSHING <i>(1-1/2"X1-3/4"X2")</i>	2

Item No.	Part No.	Description	Qty. Req.
08	NSS	TUBE WELDMENT	1
09	L99917	SAE 4 PLUG	1
10	105871	CYLINDER SEAL KIT	1
		<i>(seals included are not shown)</i>	



NOTE: Before ordering service parts, be sure to verify that the cylinder is stamped 105598 as shown on the facing page.



MT 5519 Telescopic Handler

Hydraulic Cylinders

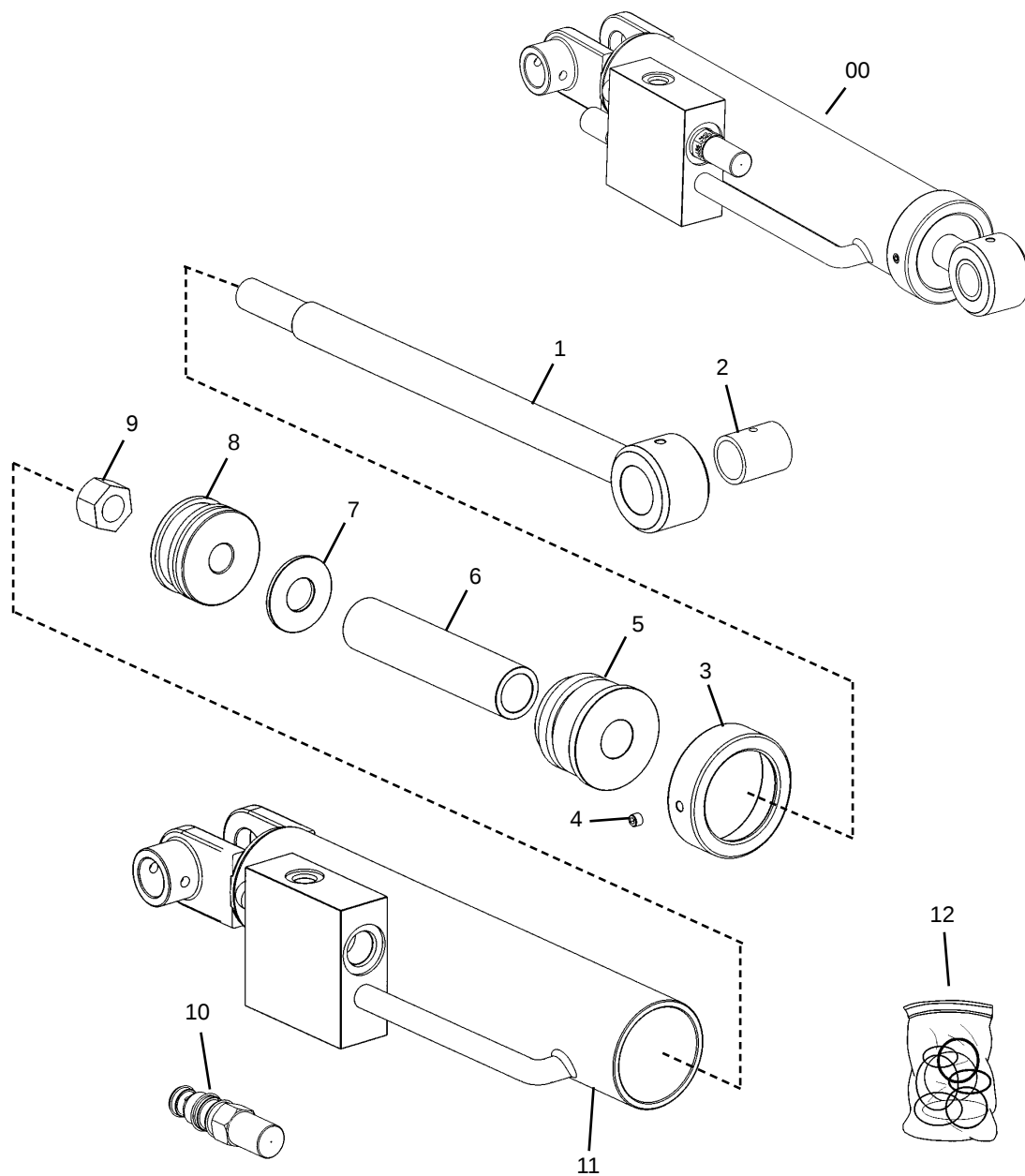
Boom Extend Cylinder

Item No.	Part No.	Description	Qty. Req.
00	105597	EXTEND CYLINDER <i>(complete)</i> . . .	1
01	105881	ROD WELDMENT	1
		<i>(includes item 2)</i>	
02	104814	BUSHING <i>(1-1/2"X1-3/4"X4")</i>	1
04	105880	HEAD GLAND	1
05	105879	PISTON	1
06	105882	LOCKNUT	1
07	103817	COUNTER BALANCE VALVE	1
	L96838	SEAL KIT (CBV)	1

Item No.	Part No.	Description	Qty. Req.
08	104809	BUSHING <i>(1-1/2"X1-3/4"X3")</i>	2
09	105883	CYLINDER SEAL KIT	1
		<i>(seals included are not shown)</i>	
10	NSS	TUBE WELDMENT	1



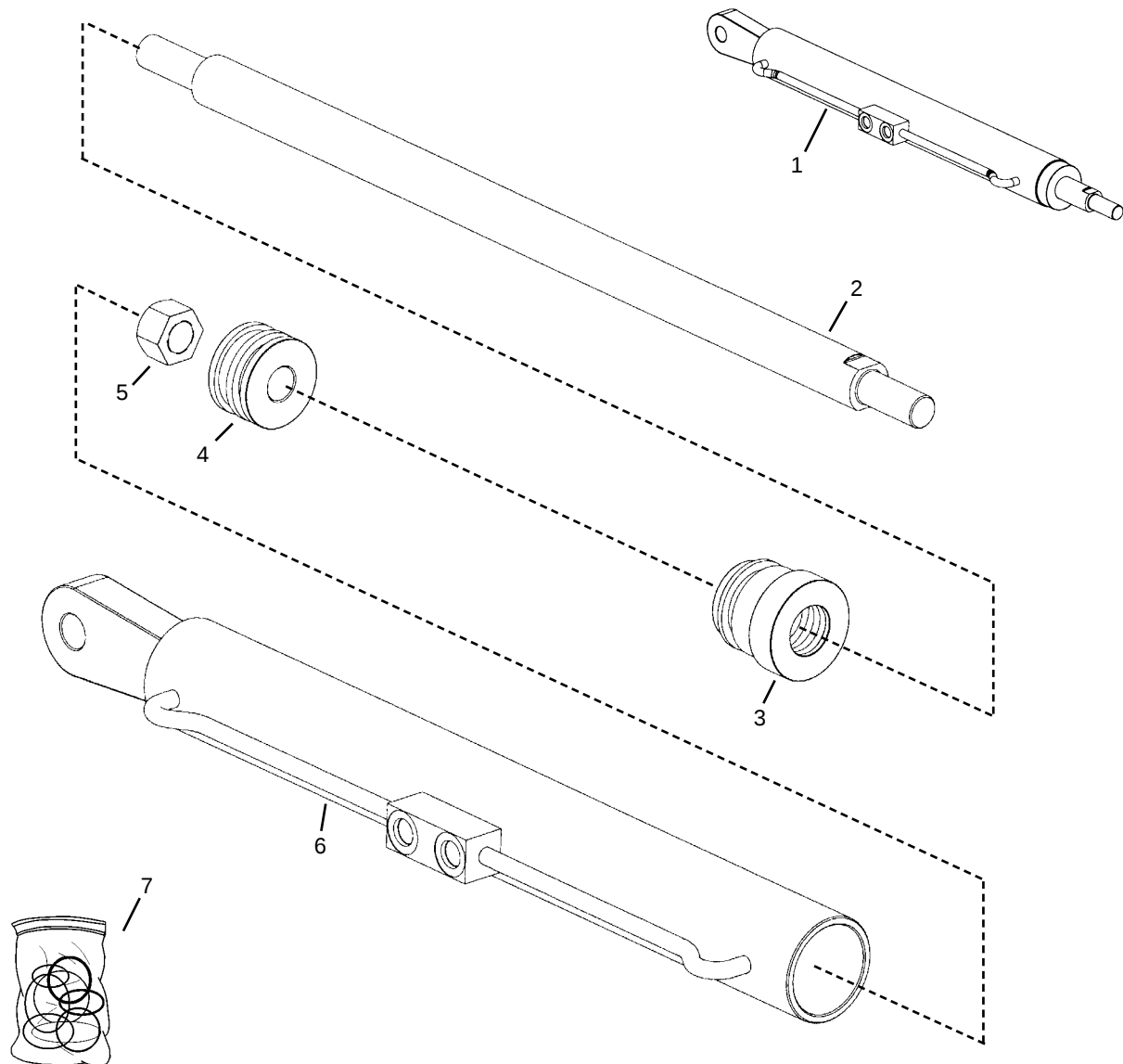
NOTE: Before ordering service parts, be sure to verify that the cylinder is stamped 105597 as shown on the facing page.



MT 5519 Telescopic Handler

Hydraulic Cylinders *Rotating-Carriage Cylinder*

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
00	L63594	ROTATE CYLINDER (<i>complete</i>) . . .	1	08	L98921	PISTON	1
01	L99168	ROD WELDMENT	1	09	L500367	3/4"-16 UN LOCKNUT	1
02	L63593	BUSHING	1	10	L64175	COUNTER BALANCE VALVE	1
03	121554	HEAD GLAND CAP	1		L97889	SEAL KIT (CBV)	
04	L99857	5/16"-18X1/4" SET SCREW	1	11	NSS	TUBE WELDMENT	1
05	L99171	HEAD GLAND	1	12	L99170	CYLINDER SEAL KIT	1
06	L99174	SPACER, ROD	1			(<i>seals included are not shown</i>)	
07	L99175	SUPPORT WASHER	1				



MT 5519 Telescopic Handler

Hydraulic Cylinders *Fork-Shift 48" Carriage Cylinder*

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	210932	FORK-SHIFT CYLINDER	1	05	080319	LN 0.75"-16 UNF	1
02	106959	CYLINDER ROD	1	06	NSS	TUBE WELDMENT	1
03	L500762	HEAD GLAND	1	07	L500370	SEAL KIT	1
04	L500761	PISTON	1				

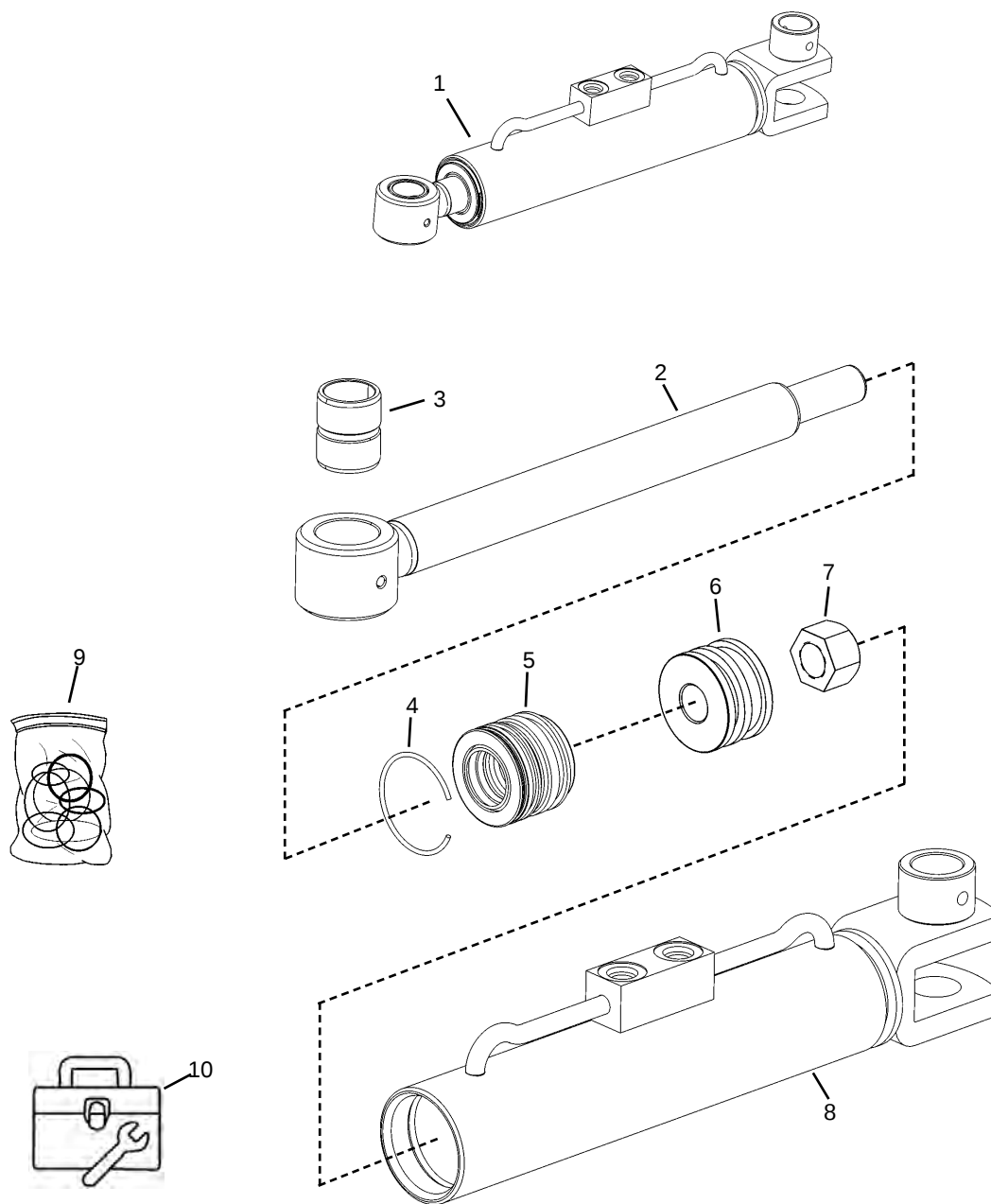


NOTE: *Items in seal kits are not shown.*

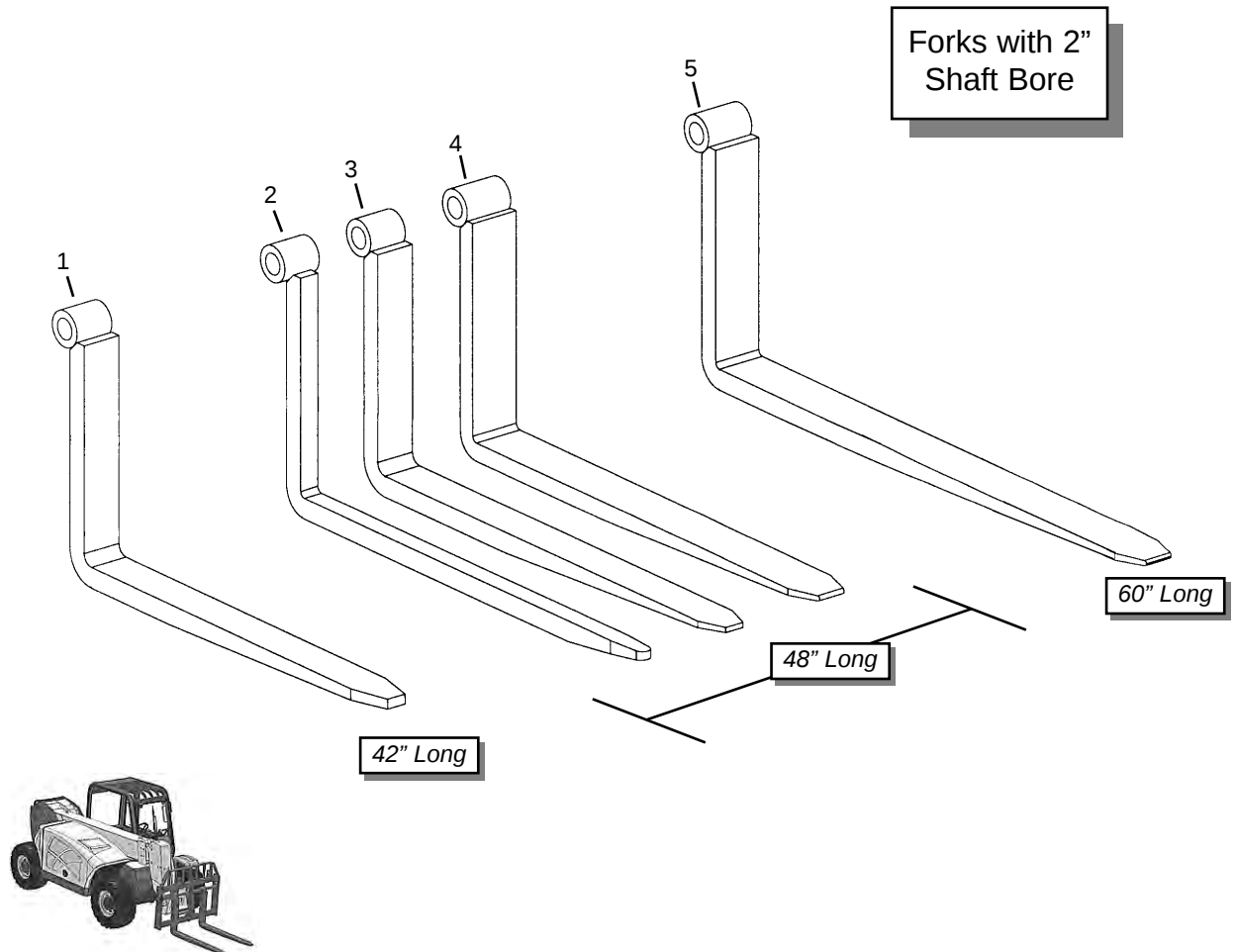
Hydraulic Cylinders

Side-Shift Carriage Cylinder

MT 5519 Telescopic Handler



Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	50380525	CYLINDER, SIDE-SHIFT	1	09	50220261	SEAL KIT.	1
		(includes Items 2-9)				(Includes all required seals, an	
02	50220258	ROD WELDMENT	1			internal retaining ring, and item 4).	
03	L63593	BUSHING	1	10	50220262	REPAIR KIT.	1
04 ^a	50220260	RETAINING RING	1			(Includes item 9, plus a filler ring that	
05	50220259	HEAD GLAND	1			is required to remove the head	
06	L500761	PISTON	1			gland.)	
07	080319	LOCK NUT, 3/4"-16	1				
08	NSS	TUBE WELDMENT	1	a		Included with seal kit (item 9).	



Item No.	Part No.	Description	Qty. Req.
-- 2" FORK SHAFT DIAMETER --			
01	L71350	FORK, 42"x4"x2"	2
02 ^a	L61001	FORK, 48"x2"x2"	4
03	L61017	FORK, 48"x4"x2"	2
04	L400929	FORK, 48"x5"x1-3/4"	2
05	105079	FORK, 60"x5"x1-1/2"	2

^a Requires 2 sets (4 forks)

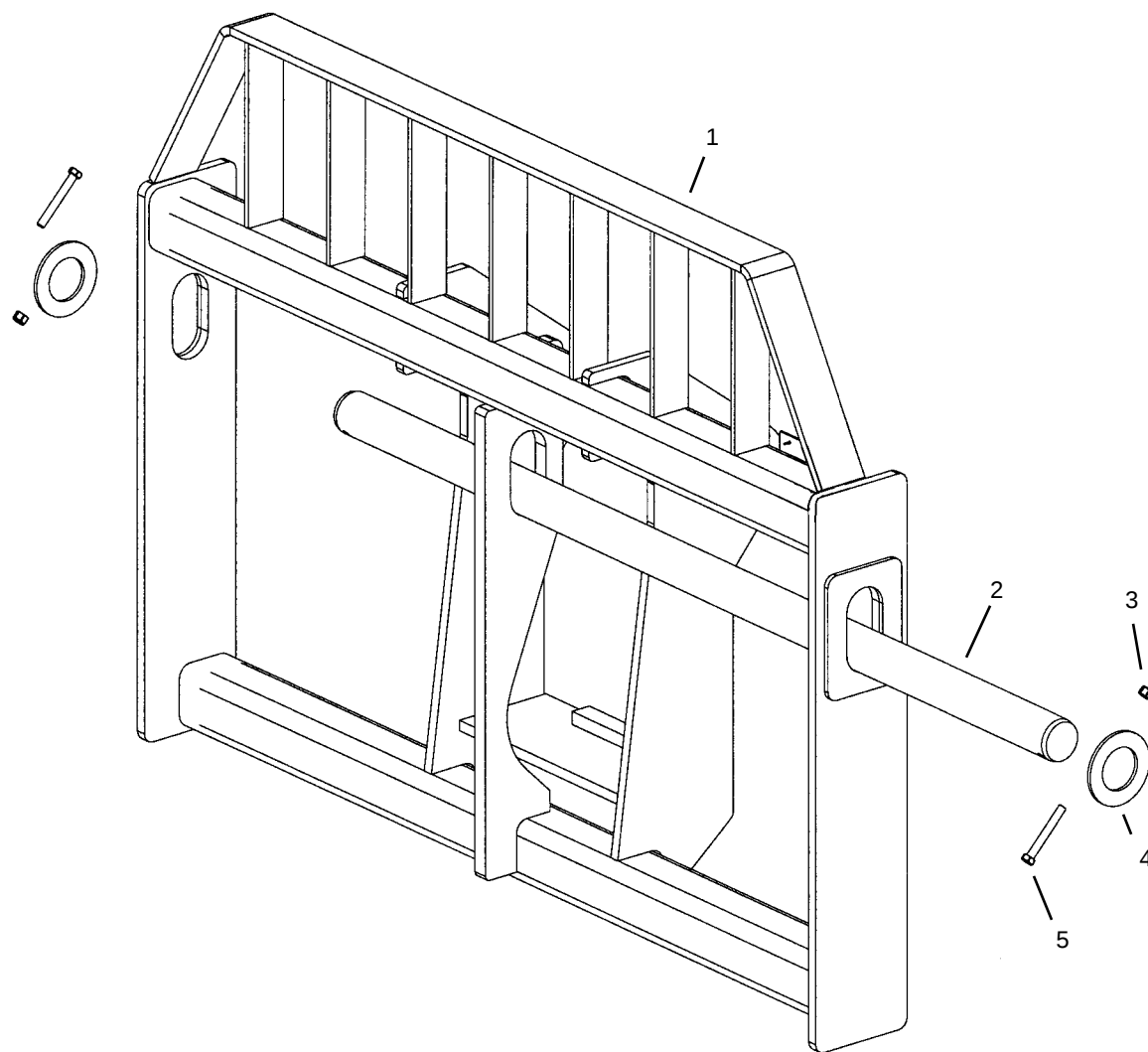


NOTE: Ratings are based on two forks and a 24" load on center, except for item #2, where four forks are required.



WARNING

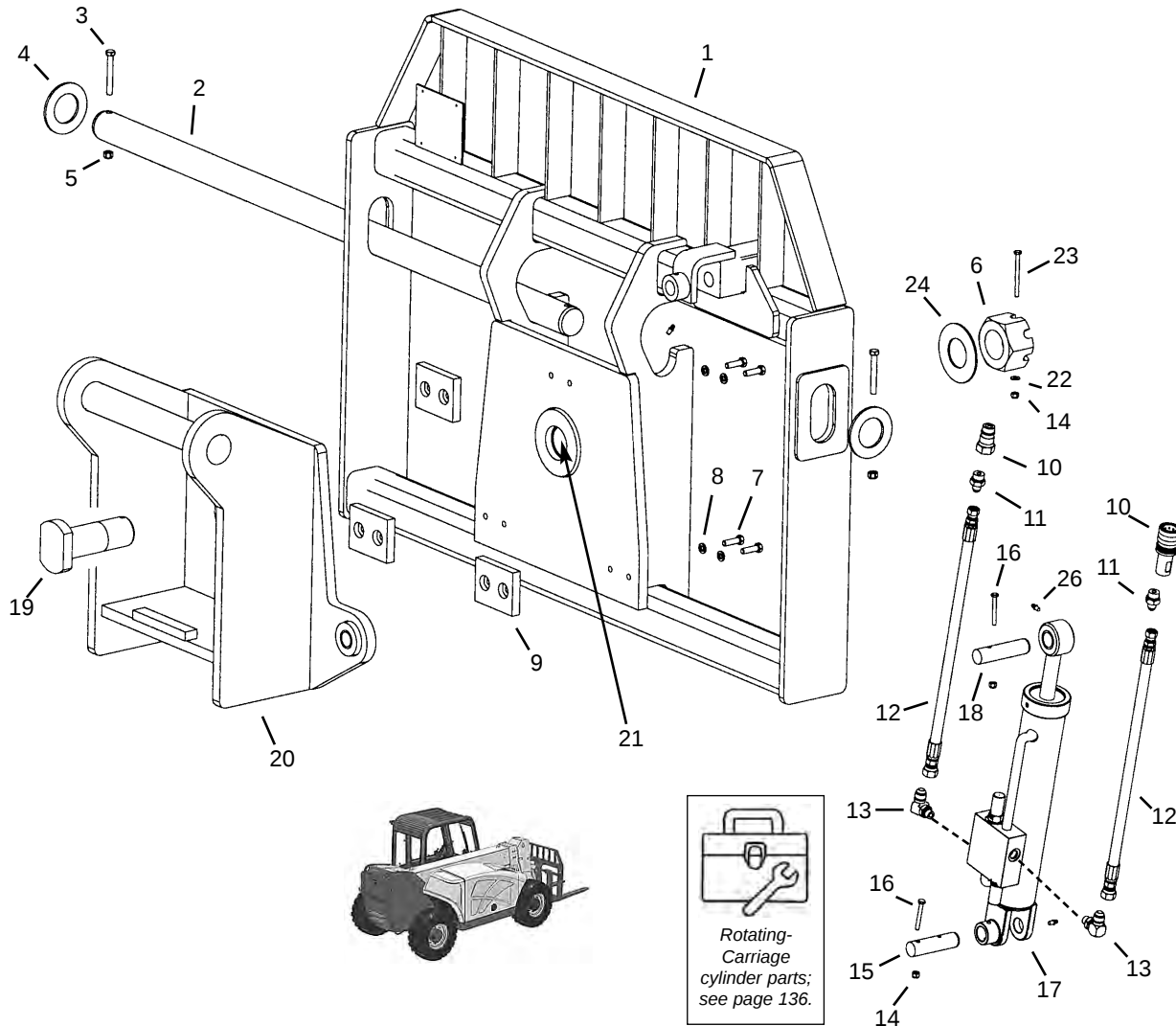
When ordering forks, select forks with a rating capacity that meets or exceeds the lifting capacity of the machine; failure to use the correct forks could result in injury or death. For more information contact dealer (or manufacturer).



MT 5519 Telescopic Handler

Attachments Standard Carriage

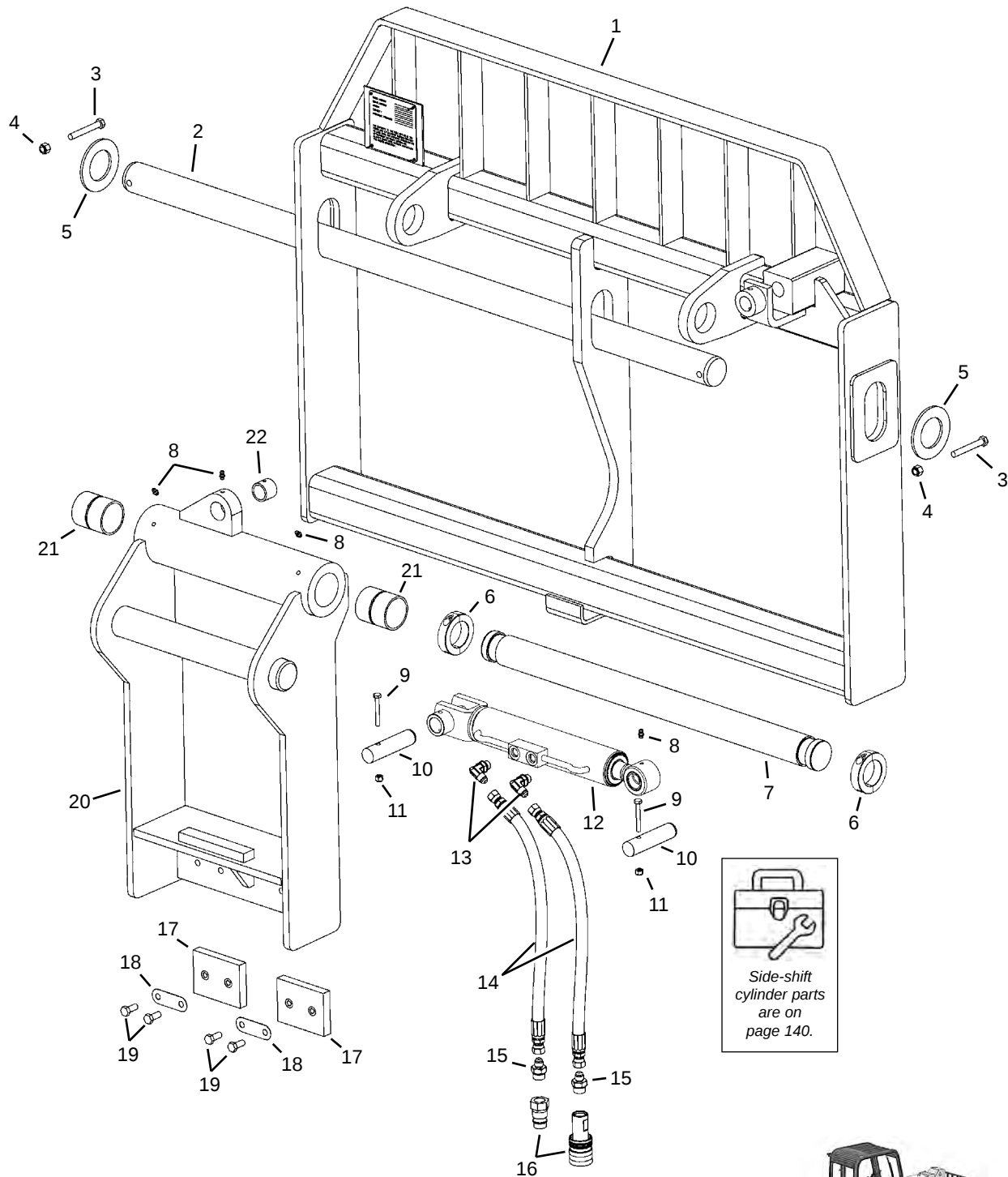
Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01		CARRIAGE, WELDMENT	1	03	L400425	WASHER, FORK SHAFT	2
	104836	48" Carriage		04	067847	3/8"-16 NYLON INSERT NUT	2
	104837	66" Carriage		05	650493	3/8"-16X2-3/4" BOLT	2
02		FORK SHAFT BAR	1				
	L63319	48" Carriage (50-1/2")					
	L63320	66" Carriage (68-1/2")					



MT 5519 Telescopic Handler

Attachments Rotating Carriage (Series II)

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01		ROTATE CARRIAGE, WELDMNT . 1		11	230-24749	ADAP, -8ORM -6JICM STR.	2
	104937	48" Carriage		12	L63344	HOSE, -6 A8/A6 20"	2
	104938	66" Carriage		13	114824	ADAP, -6ORM -6JICM 90°.	2
02		FORK SHAFT BAR	1	14	L520003	1/4" NYLON INSERT NUT	1
	L63319	48" Carriage (50-1/2" long)		15	L63968	PIVOT PIN, BASE END	1
	L63320	66" Carriage (68-1/2" long)		16	L50841	1/4"X2" BOLT	AR
03	650493	3/8"X2-3/4" BOLT	2	17	L63594	ROTATE CYLINDER	1
04	L400425	RETAINER.	2	18	L63969	PIVOT PIN, ROD END	1
05	067847	3/8"-16 NYLON INSERT NUT	2	19	104903	ROTATE PIN.	1
06	L50205	2"-12 CASTELLATED NUT	1	20	104910	CARRIAGE PIVOT	1
07	650491	3/8"X1-1/4" BOLT"	6	21	104897	SPHERICAL BEARING	1
08	654026	3/8" LOCK WASHER	6	22	654002	1/4" FLAT WASHER	AR
09	L61709	SLIDE PAD 3"X4"	3	23	L50535	1/4"X3" BOLT	1
10	L65273	QUICK COUPLER SET	1	24	L400207	WASHER	1
		(Couplers are not sold separately.)					



MT 5519 Telescopic Handler

Attachments Side-Shift Carriage

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	50220314	SIDE-SHIFT FRAME w/SN	1	14	136104	HOSE, MP -6 x 30"	2
02	L63319	BAR, FORKSHAFT 2" x 50-1/2" . . .	1	15	50380600	ST MJ06-MORB08 w/orifice	2
03	650493	CS 3/8" x 2-3/4" C5ZY.	2	16	L65273	HYDRAULIC COUPLER SET	1
04	067847	HLN INST 3/8" CZY.	2	17	L61709	PAD, SLIDE 3" x 4"	2
05	L400425	WASHER, FORK SHAFT	2	18	L62715	LOCK, BOLT FLAT	2
06	50380541	COLLAR, 1-3/4" LOCKING	2	19	L510007	CS 3/8" x 7/8" GR5	4
07	50380532	SHAFT, SIDE-SHIFT	1	20 ^a	50380535	SIDE-SHIFT MOUNT.	1
08	570019	FITTING, GREASE 1/4" TAPER . . .	4	21 ^b	104813	BUSHING	2
09	650706	CS 1/4" x 2" C5ZY.	2	22 ^b	L67712	BUSHING, 1-1/4" O.D. x 1" I.D. . . .	1
10	L63969	PIN, CYLINDER PIVOT.	2				
11	L520003	NYLON INSERT NUT, 1/4"-20 . . .	2				
12	50380525	CYLINDER, SIDE-SHIFT	1				
13	068938	90 JICM06-MAORB06.	2				

a Includes bushings: items 21 and 22.
b Included with item 20.

Fork-Shift 48" Carriage

MT 5519 Telescopic Handler

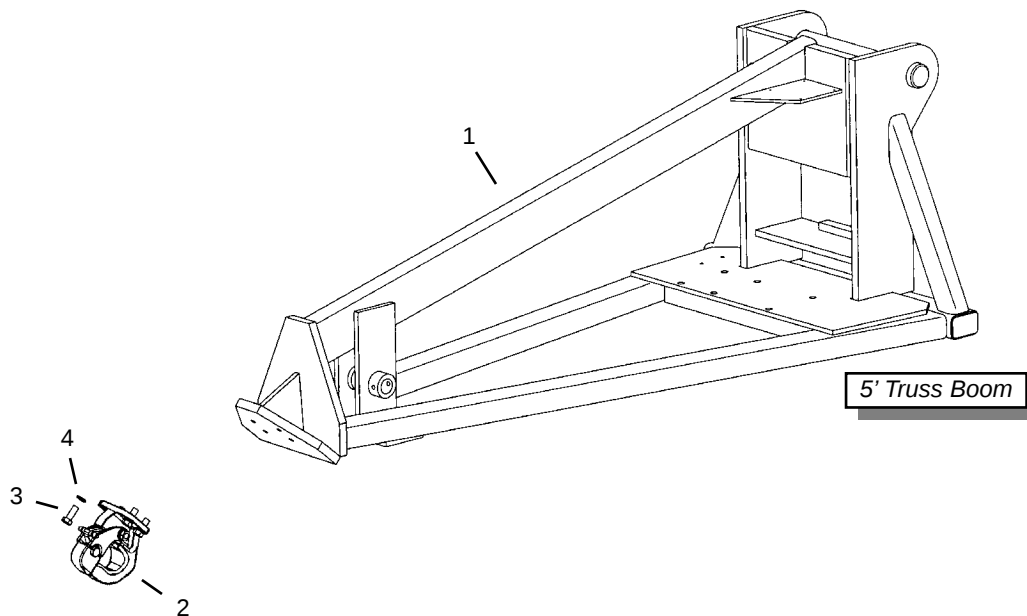


MT 5519 Telescopic Handler

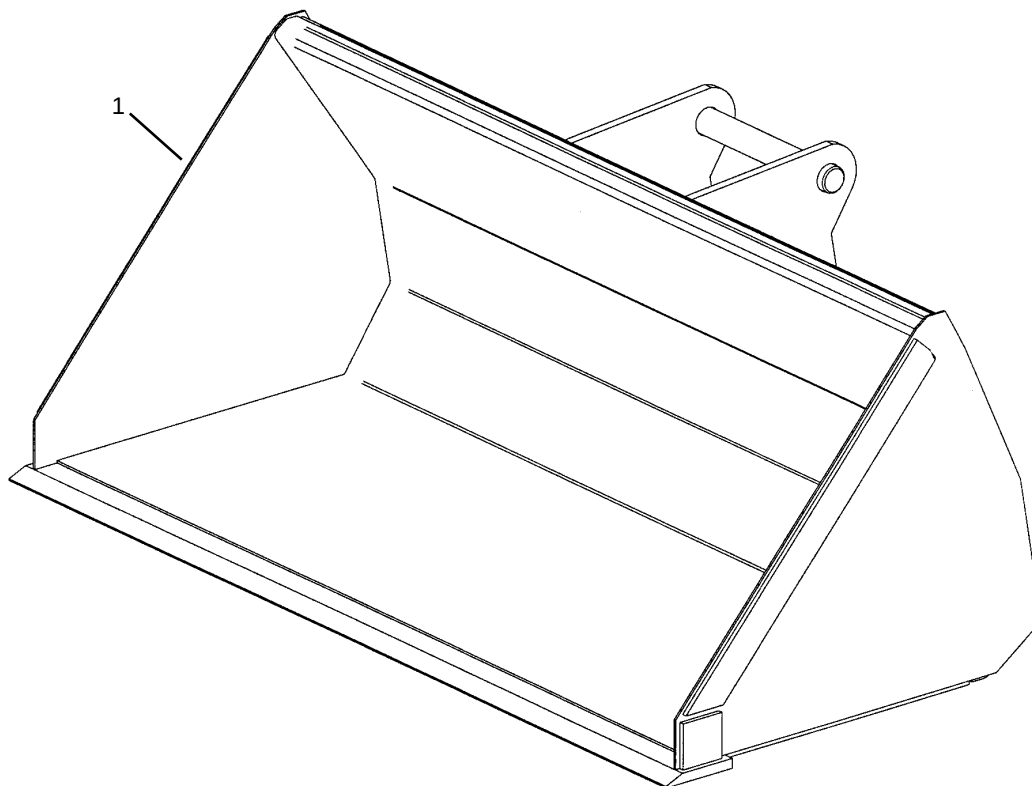
Attachments Fork-Shift 48" Carriage

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	50220666	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		a	Fork-shift carriage weldment only; items 2-14 are separate parts and can be order individually.		
	L66948	5" wide forks					
08	210934	FORK SHAFT (2" x 53-1/8")	1				

Truss Boom



Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
01	104835	TRUSS BOOM, 5FT.	1	-- ITEMS NOT SHOWN --			
02	L61411	PINTLE HOOK	1	--	L500222	ATTACH. ADAPTER PLATE.	1
03	L50380	1/2"-20X1-1/4" GR 8 BOLT	4	--	L66042	DECAL, TRUSS TILT BACK	1
04	L50152	1/2" LOCK WASHER.	4				



Item No.	Part No.	Description	Qty. Req.
01	104834	1.0 CU. YD. BUCKET WELDMNT	. 1
	104301	CUTTING EDGE 73.5" (<i>weld-on</i>)	. . 1

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.

NEW DECAL APPLICATION

Before applying 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 die-cut decal, first remove the backing paper. Then, properly position the decal onto the clean mounting surface. After the decal is firmly applied and smoothly pressed down, remove the front covering paper.

**IMPORTANT**

When a decal is affixed to a part that is to be replaced, be sure that the replacement part has the decal applied or apply a new decal.

PAINT FINISH

Use this list to order paint for refinishing:

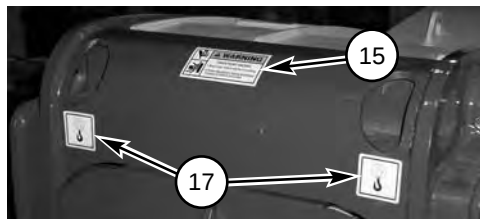
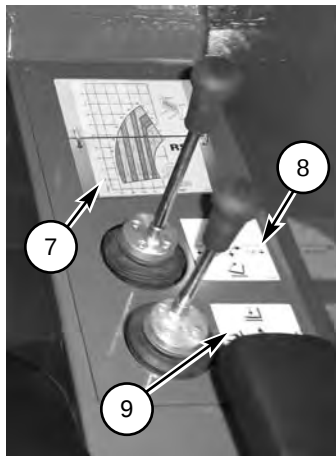
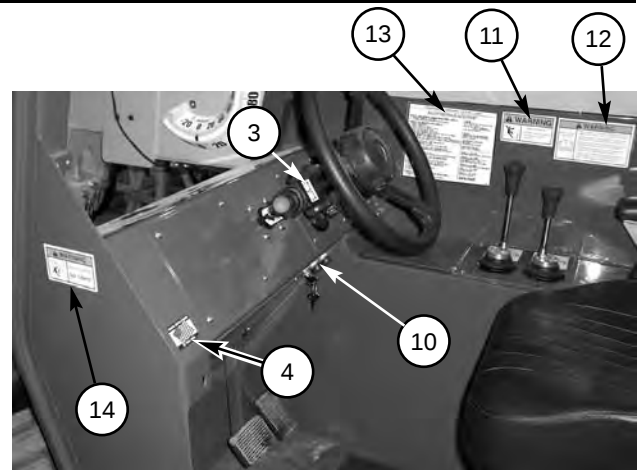
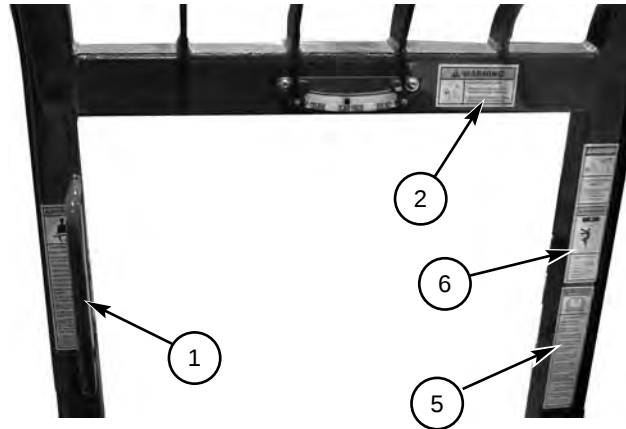
808020	One Gallon Red
808021	6 (12-oz. Spray Cans) Red
167754	One Gallon Gun-Metal Gray
167753	6 (12-oz. Spray Cans) Gun-Metal Gray

Decal Kits

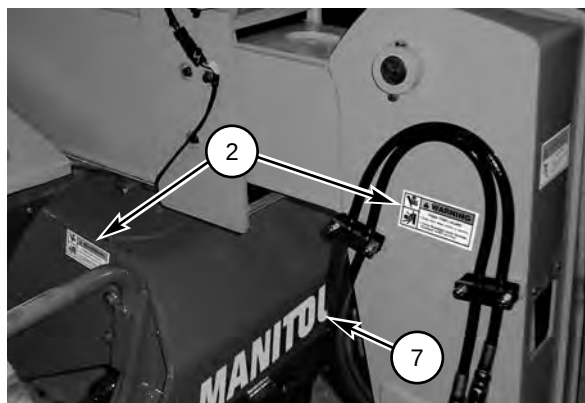
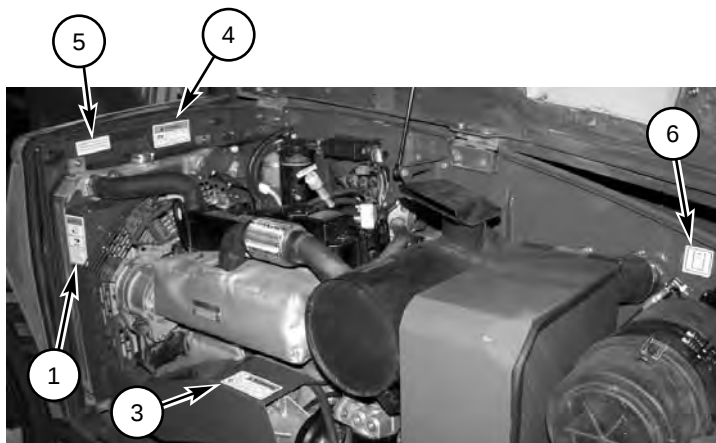
51200526	MT 5519 Telescopic Handler
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NOTE: Decals may be purchased in kits or individually.



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70306	DECAL, WARN. TILT HAZARD.	1	08	100400	ATTACHMENT TILT/AUX.	1
02	L65926	DECAL, WARN. CARRY LOAD . . .	1	09	L63631	BOOM CONTROL.	1
03	L68295	DECAL, F-N-R SHIFTER	1	10	50380266	DECAL, IGNITION/HORN.	1
04	140516	DECAL, MADE IN USA.	1	11	L65928	DECAL, PERSON. INJURY	1
05	101506	DECAL, WARN. PARK BRAKE. . . .	1	12	100359	OPERATOR MANUAL WARNING. . .	1
06	L70307	DECAL, DANGER/HIGH VOLT. . . .	1	13	50380364	DECAL, LUBE CHART	1
07		LOAD CHART	1	14	L65932	DECAL, NO RIDERS.	1
	50380347	STANDARD CARRIAGE		15	L65927	DECAL, PINCH POINT	1
	50380348	ROTATING CARRIAGE		16	104945	DECAL, TIE DOWN.	4
	50380349	BUCKET		17	104946	DECAL, LIFT POINT	4
	50380350	TRUSS BOOM (JIB)		18	50380379	DECAL, MANITOU (SMALL).	1
	50380351	FORK-SHIFT CARRIAGE					
	50380352	SIDE-SHIFT CARRIAGE					



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70305	DECAL, DANGER-HANDS OUT...	1	06	137632	DECAL, HYDRAULIC OIL.....	1
02	L65927	DECAL, WARN. PINCH POINT... AR		07	50380379	DECAL, MANITOU (SMALL).....	3
03	L65933	DECAL, WARN. JUMP START....	1	08	50380382	DECAL, MT 5519	1
04	056859	DECAL, ANTI-FREEZE.....	1	09	50380381	DECAL, MANISCOPIC	1
05	072798	DECAL, COOLANT PRESSURE ..	1	10	L65942	DECAL, WARN. HOT SURFACE ..	1
						(located on top of hood scoop)	



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L65927	DECAL, WARN. PINCH POINT . . .	1	06	L66613	DECAL, QUICKATTACH UNLOCK .	1
02	L65937	DECAL, QUICKATTACH	1	07	50301416	DECAL, DIESEL FUEL	1
03	L65928	DECAL, DANGER-PERSONNEL . .	1	08	50380382	DECAL, MT 5519	1
04	L63474	DECAL, BRAKE FLUID	1	09	L65932	NO RIDERS	1
05	50380380	DECAL, MANITOU (LARGE)	1				

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054820	111	15	100011	115	—	103029	15	19	103932	45	02
054994	105	05	100071	39	10	103033	25	11	103980	11	—
054994	111	02	100359	153	12	103052	123	13	103980	37	—
055005	105	27	100400	153	08	103099	11	F1	103984	39	07
055005	107	12	101436	21	22	103099	11	F3	103985	39	02
055064	105	31	101436	23	28	103100	11	R3	104004	41	32
055064	107	19	101495	17	24	103100	11	R4	104026	111	08
055064	111	07	101495	53	06	103100	11	R5	104027	105	21
055981	105	33	101506	153	05	103101	11	10	104027	109	07
056089	107	35	101710	23	38	103179	11	—	104028	41	14
056089	113	17	101712	13	04	103179	17	—	104046	05	10
056859	154	04	101719	23	11	103180	11	—	104046	69	12
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065538	67	05	102575	79	36	103221	11	F6	104074	73	06
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067847	41	21	102587	79	47	103594	69	01	104081	21	27
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068034	92	07	102680	21	03	103597	95	01	104082	21	28
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068938	117	06	102681	23	19	103618	116	05	104088	115	08
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070856	31	12	102712	19	10	103675	07	04	104094	115	11
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071401	41	43	102727	07	17	103676	95	15	104096	113	09
072580	97	08	102728	07	18	103678	101	20	104096	115	12
072580	113	07	102780	42	04	103679	99	17	104097	105	08
072587	111	11	102781	42	03	103715	91	06	104097	115	14
072798	154	05	102781	73	17	103718	99	03	104108	116	07
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074830	05	08	102858	107	30	103725	89	11	104110	109	01
074830	107	24	102858	113	16	103754	95	16	104110	113	08
075235	111	10	102874	21	01	103758	91	05	104111	116	12
076031	97	05	102880	07	36	103808	89	18	104112	116	13
076589	47	15	102881	07	34	103817	135	07	104123	123	01
079026	105	22	102886	21	21	103834	41	29	104124	123	02
079108	107	37	102886	23	34	103835	41	12	104126	93	13
079108	113	20	102901	21	12	103838	41	10	104134	07	10
079209	149	04	102901	23	13	103838	111	17	104203	09	04
080319	139	05	102907	25	01	103843	47	06	104212	105	15
080319	140	07	102925	11	—	103844	47	19	104212	109	08
081841	67	01	102925	17	—	103845	93	09	104218	111	04
087849	69	08	102925	53	—	103867	51	04	104230	73	15
088912	45	27	102944	25	03	103870	51	02	104235	69	09
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089070	09	15	102948	21	20	103874	51	01	104303	105	10
089099	113	11	102948	23	26	103897	99	16	104312	51	08
089888	35	03	103013	17	—	103904	42	01	104314	123	12
090666	73	05	103013	53	—	103913	57	06	104315	123	11
090666	89	17	103019	15	12	103916	73	02	104316	123	09
095601	115	02	103020	15	11	103917	73	01	104317	123	08
095601	116	16	103021	07	03	103918	73	18	104318	123	07
095619	59	31	103022	07	02	103919	73	20	104319	123	14
095955	33	01	103023	07	33	103926	97	09	104321	123	06
096252	69	10	103023	15	09	103926	99	15	104322	123	15
			103024	07	35	103926	101	26	104323	123	16

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MT 5519 Telescopic Handler

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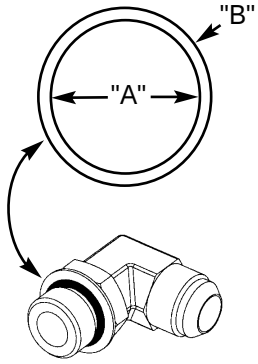
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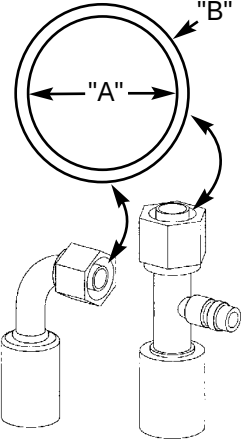
REFERENCE

O-RING TABLES

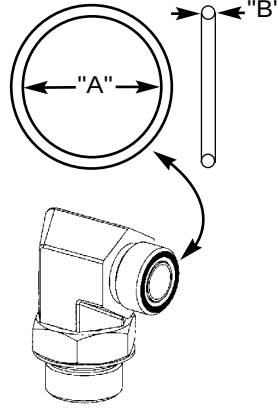
O-Ring Table — Male Boss Fittings

	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.

Grade 8.8		Grade 10.9		Grade 12.9	
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Metric Coarse-Pitch Thread	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 Fine-Pitch Thread	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.

Manitou Americas, Inc.
One Gehl Way
P. O. Box 179
West Bend, WI 53095-0179 U.S.A
www.us.manitou.com