



MANITOU

MT 5519

Telescopic Handler

Parts Manual

Catalog 50960027 Rev. B

Silverhorn.co.uk



Manitou Americas, Inc.

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MT 5519

Telescopic Handler

Parts Manual

Catalog 50960027 Rev. B

For parts orders contact your Manitou Americas Dealer or call:
Factory Parts Department (262) 334-6653.

Websites: www.us.manitou.com / www.manitouamericasdealer.com

Introduction

MT 5519 Telescopic Handler

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.

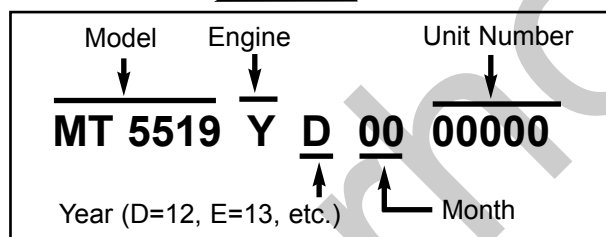
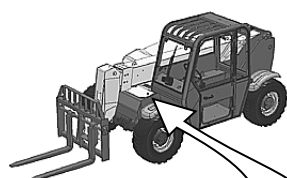
"Right" and "left" are determined from a position sitting on the seat inside the cab and facing forward.

Manitou North America, Inc. 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



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.

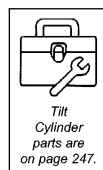
SCHEMATICS AND MANUALS

Hydraulic and electrical schematics can be found in the Operator's and Service Manuals for this machine. Engine parts are shown in the Engine Parts Manual PN 917304. The Operator's Manual for this machine is PN 50960028.

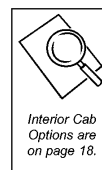
ABBREVIATIONS IN THIS MANUAL

ASSD	Assembled
ASSY	Assembly
AR	As Required
CB	Carriage Bolt
CFPD	Contact Factory Parts Department
CP	Cotter Pin
CS	Cap Screw (Bolt)
CYL	Cylinder
DIA	Diameter
EU	European Union (standards)
FHCS	Flat Head Cap Screw
GR	Grade
HB	Hex Bolt
HLN	Hex Lock Nut
HN	Hex Nut
HP	High Pressure
HYD	Hydraulic
IN	Inch(es)
INS	Insert
LN	Lock Nut
LW	Lock Washer
M	Meter or Meters
MM/mm	Millimeter
NA	Not Applicable
NPT	National Pipe Thread
NSS	Not Sold Separately
ORB	O-ring Boss
REF	Reference
SHCS	Socket Head Cap Screw
SLTD	Slotted
SN	Serial Number or Slotted Nut
SQ	Square
W/	With
W/O	Without

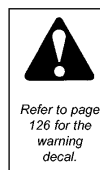
ICONS



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

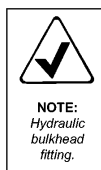


Identifies where additional information can be found.



Refer to page 126 for the warning decal.

Alerts and directs user to investigate more information.



NOTE: Hydraulic bulkhead fitting.

Identifies missing, hidden parts, or adds informational comments.



Warning or Important Information



Important information to follow



Seal Kit

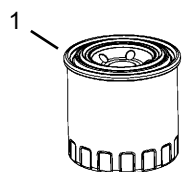


Repair Kit

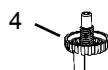
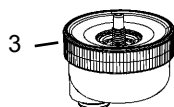
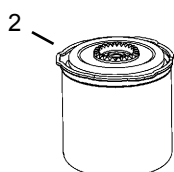
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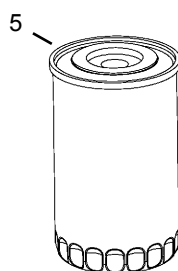
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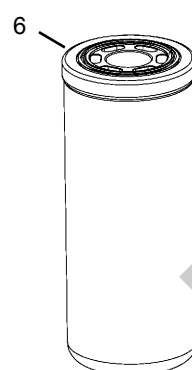
Engine Oil



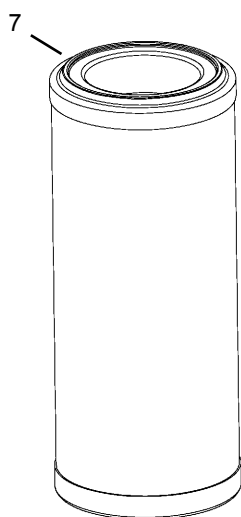
Fuel/Water Separator



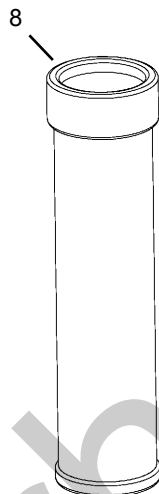
Fuel



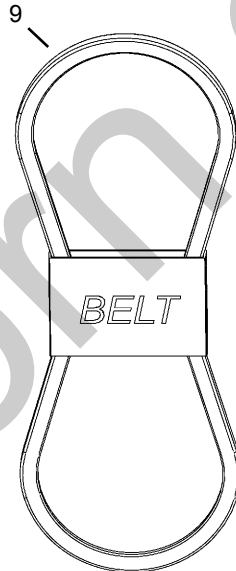
Hydraulic Oil



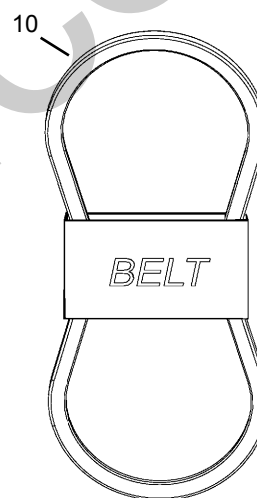
Air - Primary



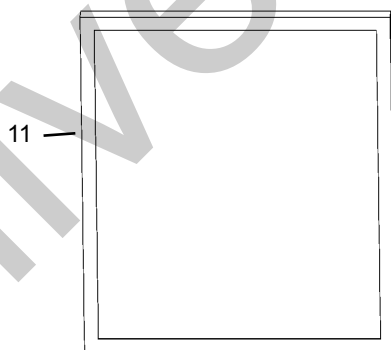
Air - Secondary



Alternator/Fan



A/C Compressor
(when equipped with
air conditioning)



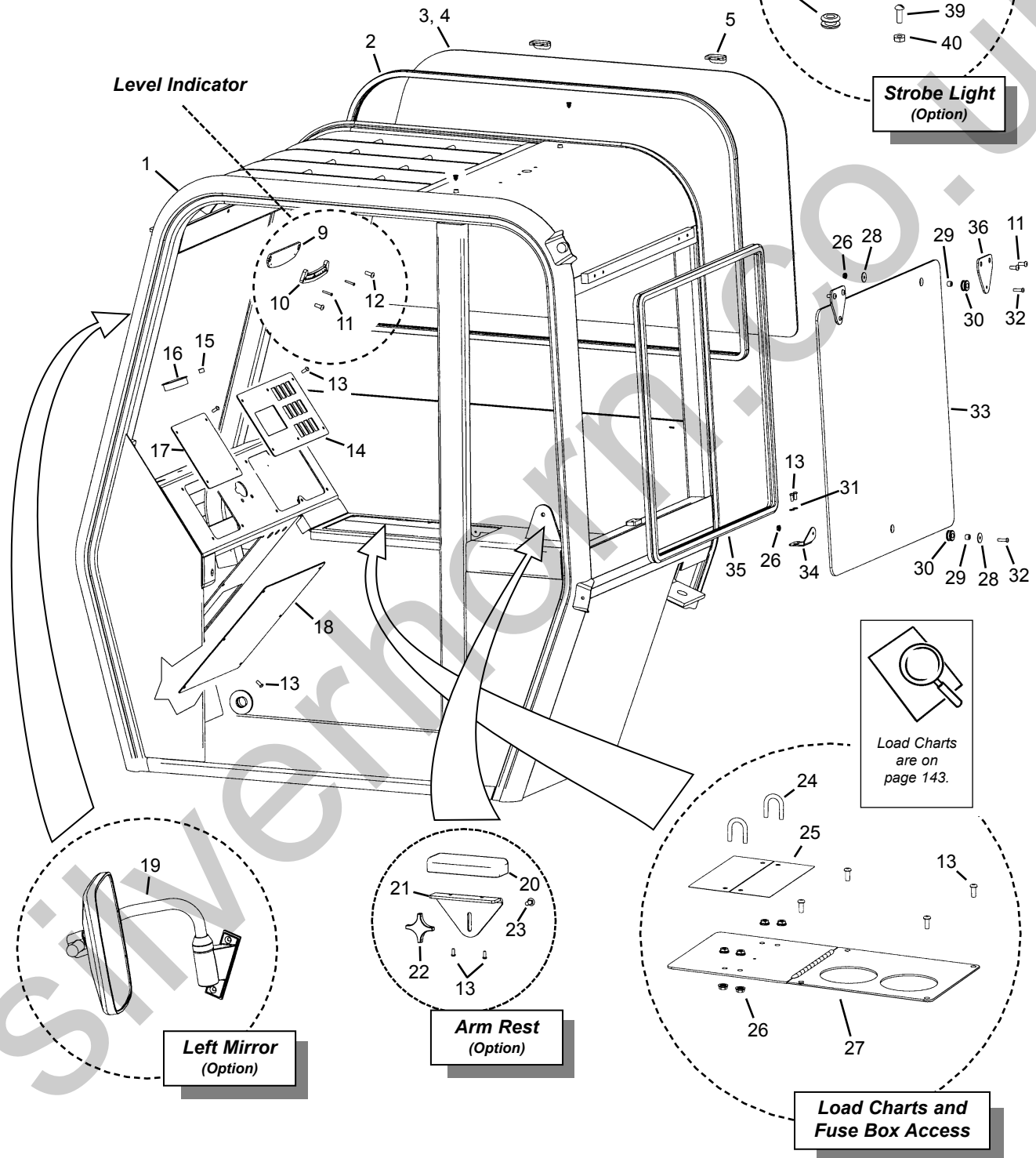
Cab Air
(when equipped with heater or A/C)

MT 5519 Telescopic Handler

Filters and Belts

All

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200116	FILTER, ENGINE OIL	1	07	51200167	FILTER, AIR (<i>primary</i>)	1
02	51200020	FILTER, FUEL/WATER SEP.	1	08	51200172	FILTER, AIR (<i>secondary</i>)	1
03	809827	BOWL, FUEL/WATER SEP.	1	09	51200613	BELT, FAN/ALTERNATOR	1
04	50380272	DRAIN, FUEL/WATER SEP.	1	10	51200614	BELT, A/C COMPRESSOR	1
05	51200019	FILTER, FUEL (<i>on firewall</i>)	1	11	51200000	FILTER, CAB AIR (<i>option</i>)	1
06	51200177	FILTER, HYDRAULIC OIL	1				

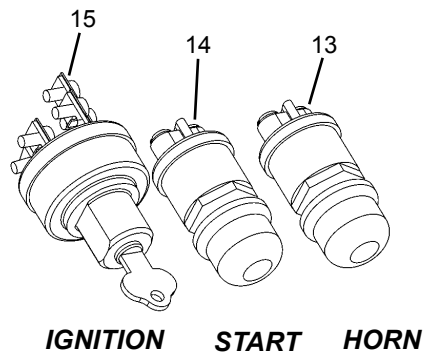
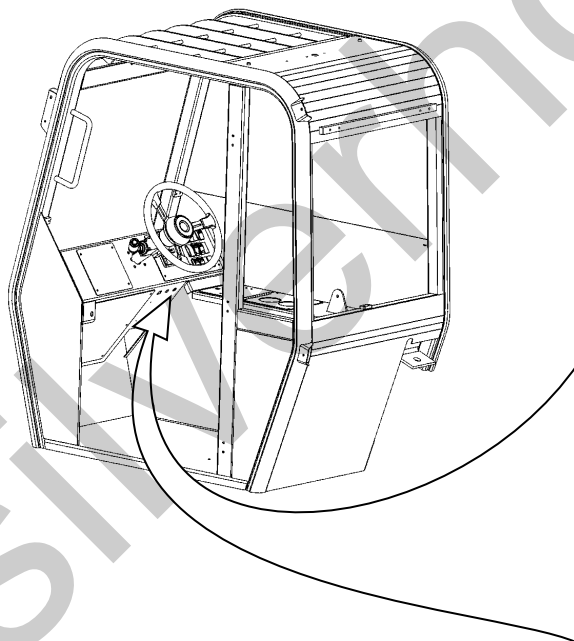
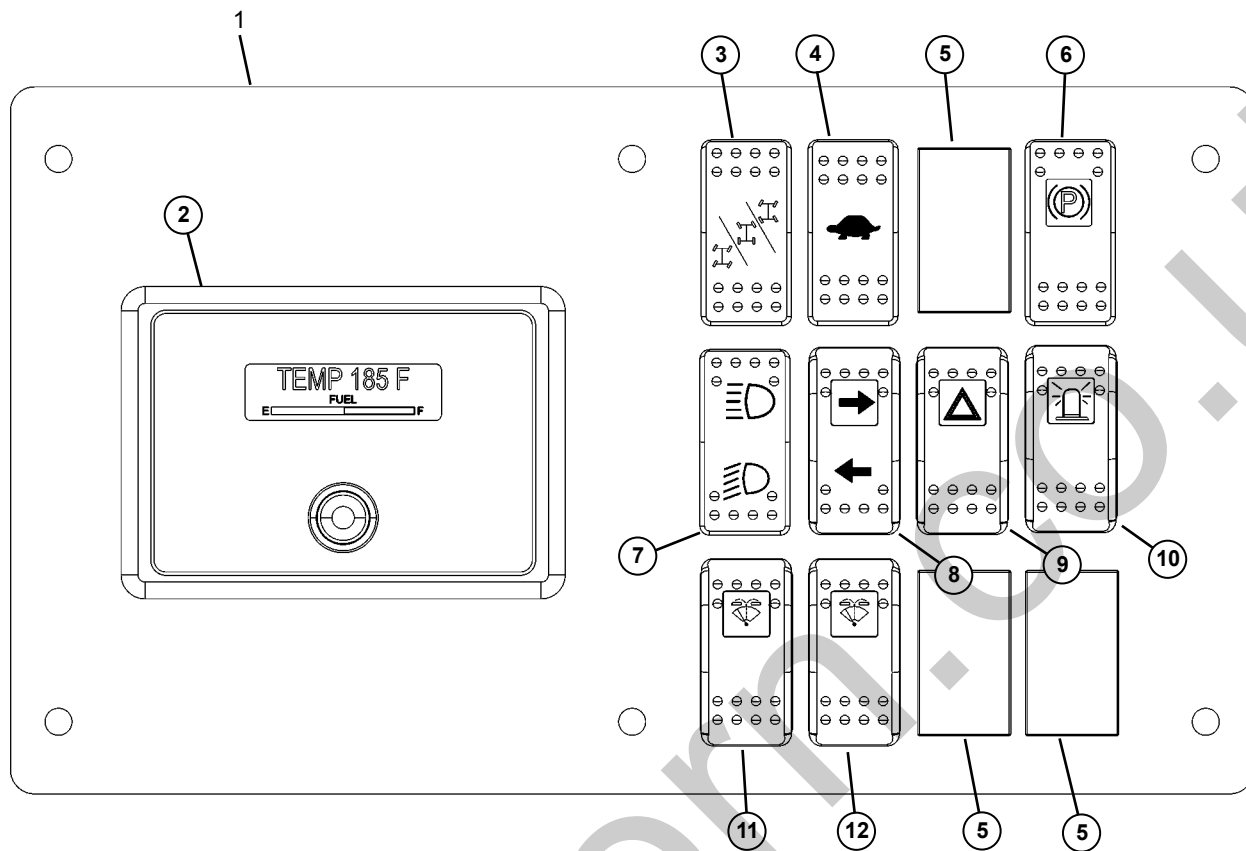


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200615	CAB (<i>without glass</i>)	1	32	808666	1/4"-20X1" BUTTON HD BOLT . .	AR
02	809319	BULB SEAL, RIGHT WINDOW . . .	1	33	809320	GLASS, REAR	1
03	809318	GLASS, RIGHT HAND	1	34	51200008	MOUNT, REAR GLASS LOWER . .	1
04	51200616	SCREEN, RH (<i>not shown</i>)	1	35	809321	BULB SEAL, REAR GLASS	1
05	808493	CLIP, WINDOW	2	36	808306	MOUNT, REAR GLASS UPPER . .	2
	808492	SCREW, FLANGE	4	37 ^d	813374	STROBE LIGHT, AMBER	1
09	808862	PLATE, INCLMT MOUNT	1	38 ^d	813378	GROMMET 0.28 x 0.156GW 0.38 .	1
10	51200617	INDICATOR, FRAME LEVEL	1	39 ^d	813376	RHMS SLT #8-32 x 1/2" CZY . . .	3
11	808677	5/16"-18X3/4" BUTT. HD BOLT .	AR	40 ^d	813377	HN MS #8-32 CZY	3
	813610	5/16" FLAT WASHER	AR				
12	809177	#8-32X1" SCREW	2			-- ITEMS NOT SHOWN--	
13	808600	1/4"-20X5/8" BUTT. HD BOLT . .	AR			(Miscellaneous)	
14 ^a	51200014	PANEL, DASH	1	--	808672	TREAD STRIP, 6" WIDE (1 FT.) .	AR
15	51200007	5/8" PLASTIC PLUG	1	--	51200623	TRIM/EDGE 5" (<i>front of cab</i>) . .	1
16 ^b	808733	HOLE PLUG, 2-1/2" DIA	1			(Strobe Light - Option)	
17 ^b	808257	PANEL, DASH COVER	1				
18 ^b	808258	PANEL, HEATER	1	--	51200027	WIRE HARNESS, STROBE UPPER .	1
19 ^c	51200620	MIRROR ASSEMBLY (<i>left hand</i>) .	1	--	51200028	WIRE HARNESS, STROBE DASH .	1
	808600	1/4"-20X5/8" BUTT. HD BOLT . .	AR	--	813379	SWITCH, STROBE LIGHT	1
	808545	1/4"-20 WHIZ LOCK NUT	AR	--	51200624	CABLE CLIP, ADHESIVE BACK . .	1
20	813612	ARM REST PAD	1			(Door hinge plugs - when door is not used)	
21	813613	ARM REST BRACKET	1	--	808891	HOLE PLUG, 1/2"	6
22	813614	ADJUSTMENT KNOB	1	--	813632	HOLE PLUG, 3/8"	6
23	813357	3/8"-16x1" CARRIAGE BOLT . . .	1				
24	808734	U-BOLT	2				
25	813469	LOAD CHART SHEET	AR				
26	808545	1/4" FLANGE NUT	AR	a		Refer to Instrument Panel and Switches section for information regarding switches and gauges.	
27	51200621	FUSE PANEL/JOYSTICK COVER .	1				
	51200622	CAM LOCK	1				
	809106	KEY ONLY (CH751)	1	b		Used when not equipped with a heater	
28	808484	WASHER, FLAT (BLACK)	AR				
29	808482	BUSHING, NYLON	AR	c		Optional left-hand mirror	
30	808483	GROMMET, 1/2"IDX1/4" GRV. . .	AR				
31	808589	1/4" LOCK WASHER	AR	d		Optional strobe light	

Cab

Instrument Panel and Switches

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Instrument Panel and Switches

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200014	PANEL, DASH..... 1 <i>(does not include switches or display)</i>		11	808923	SWITCH, WIPER/WASHER 1 <i>(front window)</i>	
02	51200537	DISPLAY, CAN & INSTRUMENTS . 1		12	808923	SWITCH, WIPER/WASHER 1 <i>(top window)</i>	
03	808922	SWITCH, STEER MODE..... 1		13	808438	SWITCH, PUSH-BUTTON <i>(horn)</i> .. 1	
04	51200625	SWITCH, TWO SPEED..... 1		14	808438	SWITCH, PUSH-BUTTON <i>(starter)</i> . 1	
05	809694	HOLE PLUG, SWITCH..... AR		15	808073	SWITCH, IGNITION w/KEY..... 1	
06	808921	SWITCH, PARK BRAKE 1			808074	KEY ONLY (2 keys) 1	
07	808926	SWITCH, LIGHTS 1					
08	808927	SWITCH, TURN SIGNALS 1					
09	808924	SWITCH, HAZARD LIGHTS 1					
10	813379	SWITCH, STROBE 1					

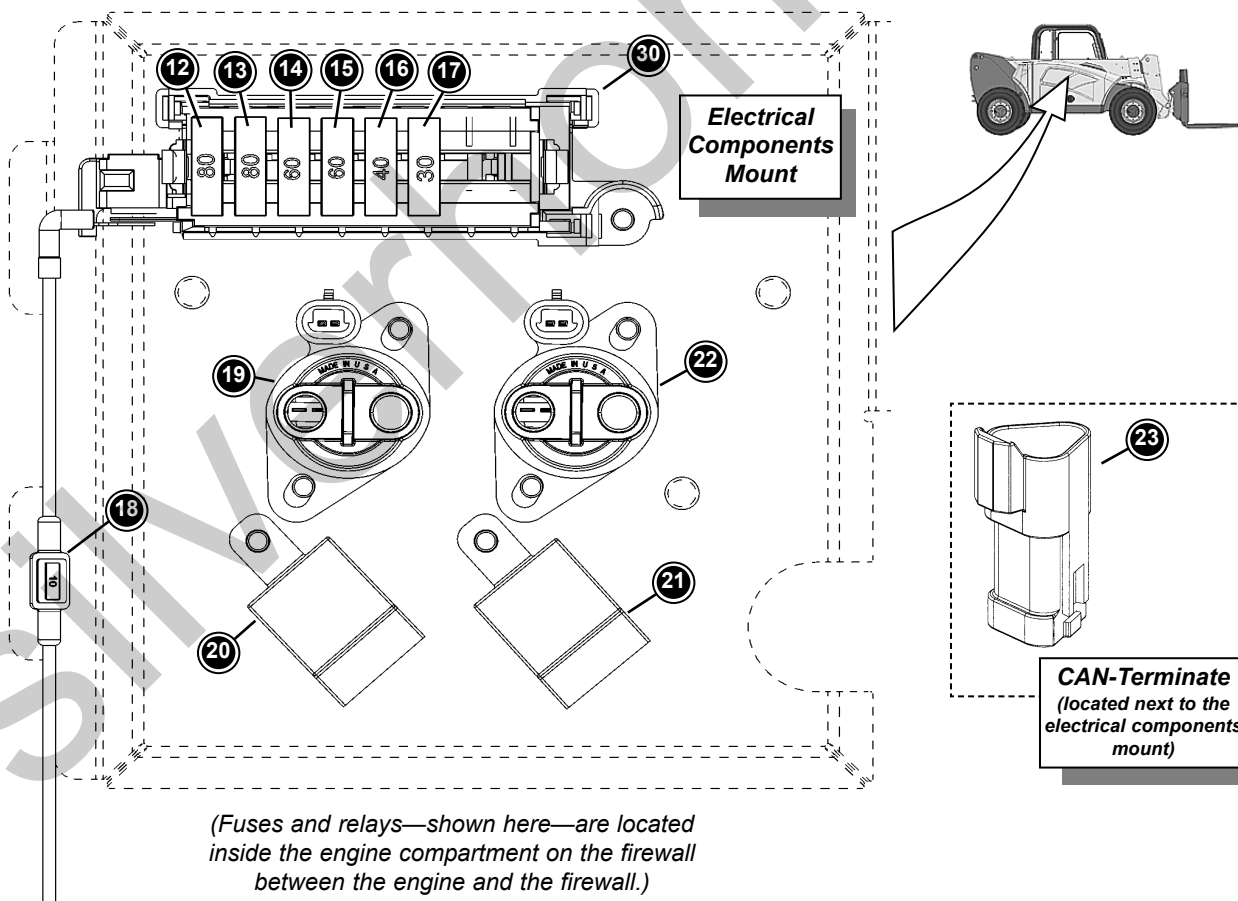
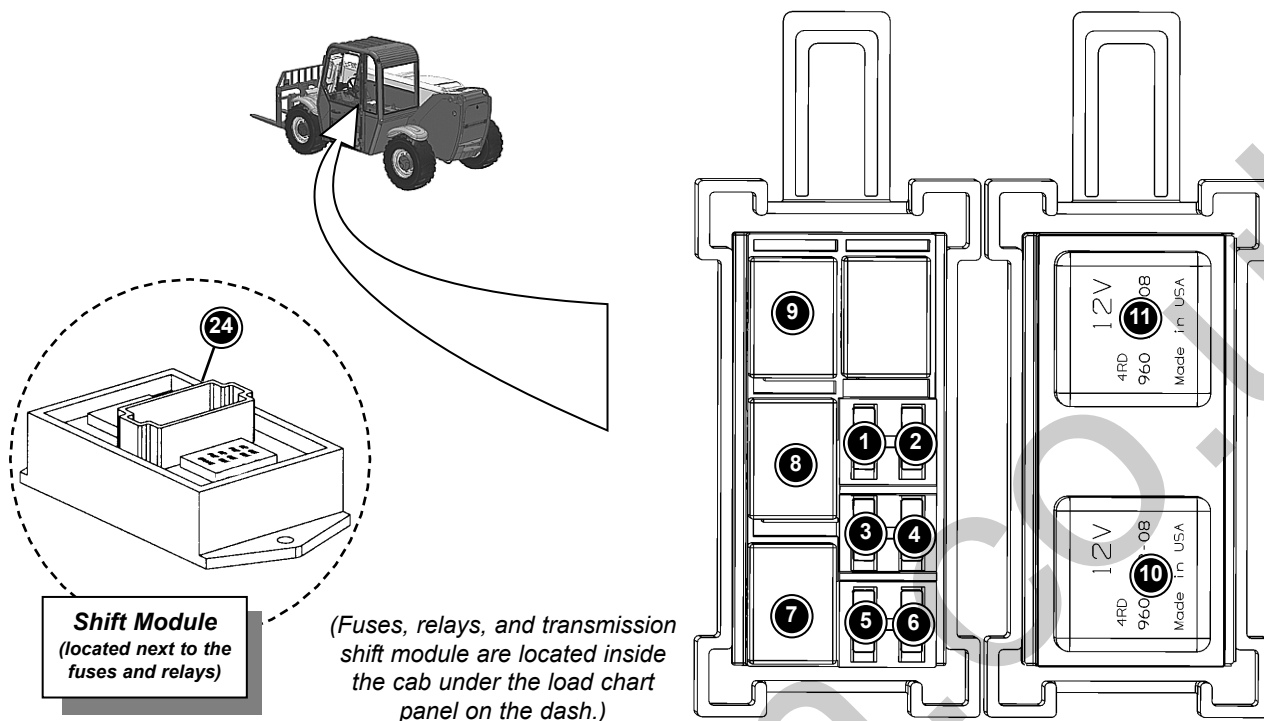


NOTE: Switches shown in the Illustration or listed on this page are for reference purposes only—your machine may be configured differently than shown here.

Cab

Fuses, Relays, and Wire Harnesses

MT 5519 Telescopic Handler



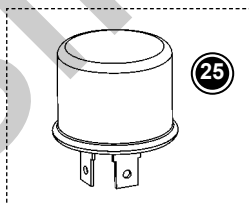
Ref.	Part No.	Description	Function/Comments
01	808394	MINI FUSE, 15 AMP	(BATTERY) IGNITION SWITCH, HORN
02	51200538	MINI FUSE, 20 AMP	(IGNITION) TRANSMISSION, PARK BRAKE, PWP, STEER SELECT, INJ.
03	808394	MINI FUSE, 15 AMP	(IGNITION) LIGHTS, INCHING
04	809190	MINI FUSE, 25 AMP	(IGNITION) HEATER, CAN DISPLAY
05	809190	MINI FUSE, 25 AMP	(IGNITION) TOP WIPER
06	809190	MINI FUSE, 25 AMP	(IGNITION) FRONT WIPER
07	808395	MICRO RELAY, 20 AMP	LIGHTS
08	808395	MICRO RELAY, 20 AMP	TOP WIPER
09	808395	MICRO RELAY, 20 AMP	FRONT WIPER
10	808892	CHANGE-OVER RELAY	IGNITION
11	808892	CHANGE-OVER RELAY	PARK BRAKE
12	51200626	MAXI FUSE, 80 AMP	ALTERNATOR
13	51200626	MAXI FUSE, 80 AMP	AIR HEATER
14	808500	MAXI FUSE, 60 AMP	CHASSIS POWER
15	808500	MAXI FUSE, 60 AMP	STARTER
16	51200627	MAXI FUSE, 40 AMP	A/C EVAPORATOR <i>(when equipped with A/C option)</i>
17	51200628	MAXI FUSE, 30 AMP	A/C CONDENSER <i>(when equipped with A/C option)</i>
18	51200629	MINI FUSE, 10 AMP	(IN-LINE) ECU POWER
19	51200630	SOLENOID, 12 VDC	STARTER
	51200631	CAP	<i>(not shown—not included with solenoid)</i>
	51200632	HN 5/16 C2ZY	<i>(not shown—not included with solenoid)</i>
20	51200633	RELAY, 20 AMP	ECU
21	51200633	RELAY, 20 AMP	FUEL RACK
22	51200630	SOLENOID, 12 VDC	AIR HEATER
	51200631	CAP	<i>(not shown—not included with solenoid)</i>
	51200632	HN 5/16 C2ZY	<i>(not shown—not included with solenoid)</i>
23	813465	CAN/TERMINATE RECEPTACLE	
24	51200634	MODULE, SHIFTER	
25	808735	TURN SIGNAL FLASHER	<i>(when equipped with light package option)</i>
26	51200635	DIODE PACK	DRIVE TRAIN CONTROLS <i>(located under the front chassis cover, part of frame wire harness)</i>
27	808396	DIODE PACK	BRAKE LIGHT/TURN SIGNAL CIRCUIT <i>(Light Package Option)</i> <i>(located the under dash near the switches—part of light package harness)</i>
28	808577	DIODE PACK	BRAKE LIGHT/TURN SIGNAL CIRCUIT <i>(Light Package Option)</i> <i>(located the under dash near the switches—part of light package harness)</i>
29	808576	CLEAR COVER, DIODE PACK	
30	51200636	FUSE BLOCK W/COVER	<i>(does not include fuses)</i>
--	51200637	WIRE HARNESS, FRAME	
--	51200638	WIRE HARNESS, CANOPY	
--	51200639	WIRE HARNESS, ENGINE	
--	51200539	WIRE HARNESS, LIGHT PACKAGE <i>(option)</i>	<i>- Refer to next page for more information.</i>



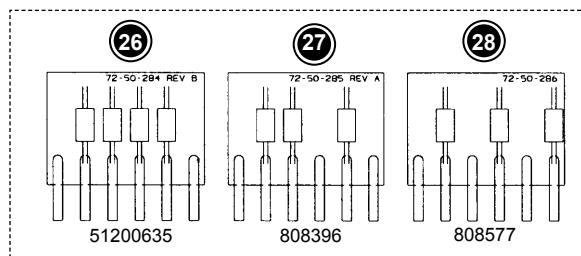
NOTE: For additional wire harnesses, refer to their relative location in this parts manual (e.g., Boom section for boom lights).



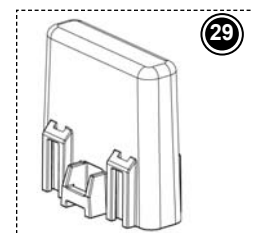
NOTE: Fuses, relays, and other items shown on these pages are for reference purposes only; your machine might be configured differently and might not include the options shown on this—or other pages—in this parts manual.



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

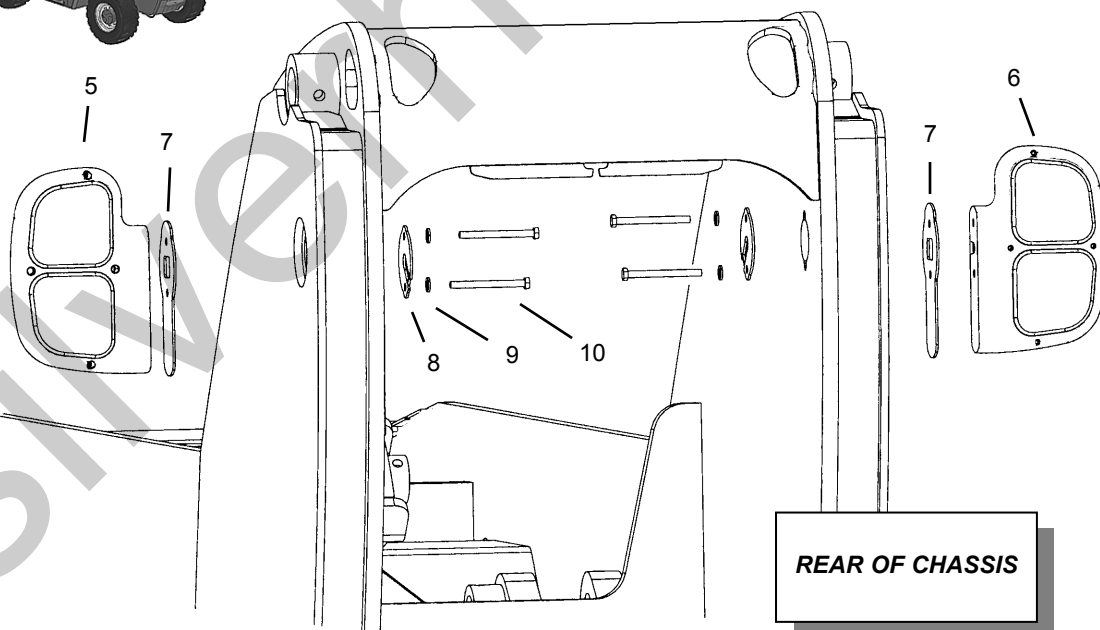
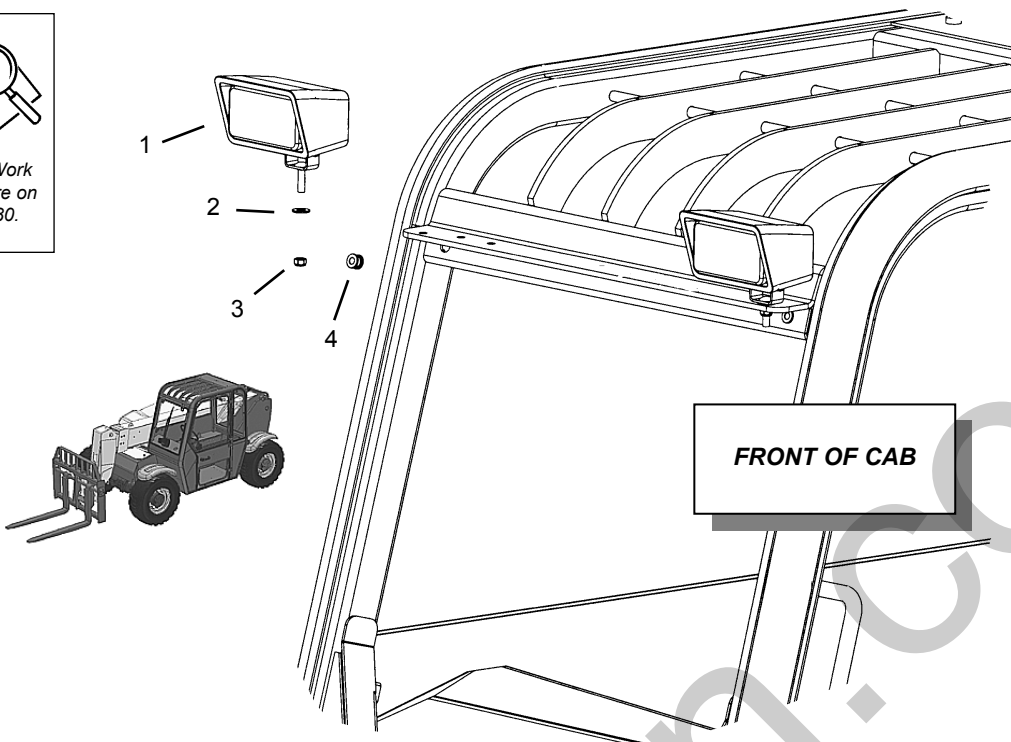
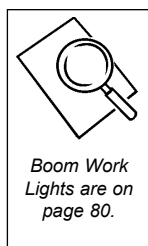


Diode Packs



Diode Pack Cover

Front and Rear Lights (Option)

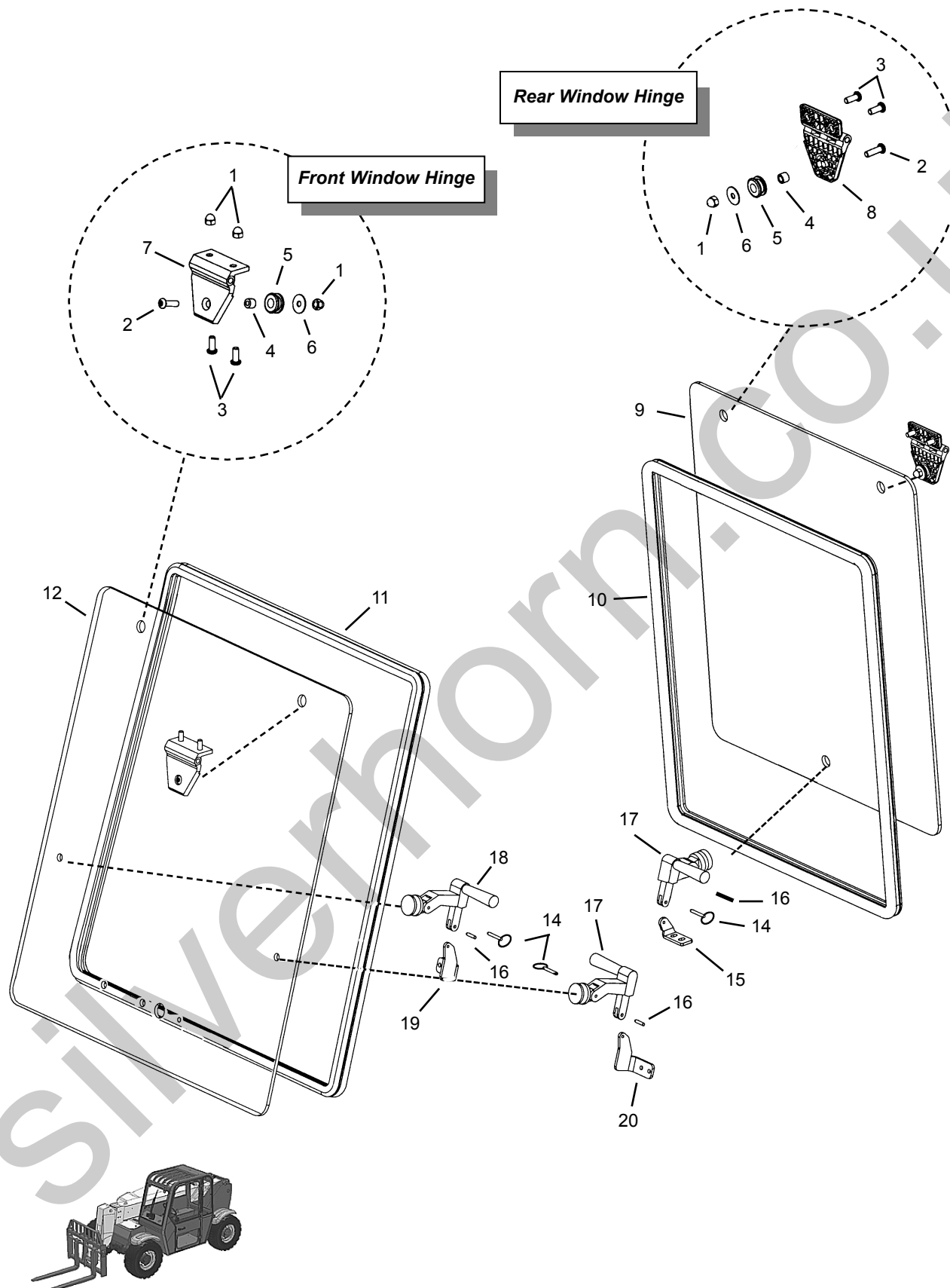


MT 5519 Telescopic Handler

Cab

Front and Rear Lights (Option)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	808889	HEAD LIGHT	2	09 ^a	813849	3/8" LOCK WASHER	4
02	808595	1/2" FLAT WASHER	2	10 ^a	51200644	M8-1.25X100 C8.8 BOLT	4
03	808471	3/8"-16 WHIZ LOCK NUT	2				
04	808341	GROMMET, 5/8"	AR				
05 ^a	51200640	TAIL LIGHT, LH	1	--	51200539	HARNESS, LIGHT PACKAGE	1
06 ^a	51200641	TAIL LIGHT, RH	1				
07 ^a	51200642	TAIL LIGHT, MOUNT	2				
08 ^a	51200643	TAIL LIGHT, RETAINER	2				
						-- ITEMS NOT SHOWN --	
						(Dash to rear lights: includes two diode packs—refer to previous page for diode information.)	
				--	808901	WIRE HARNESS, HEAD LIGHT . . .	2
				--	808344	GROMMET 13/16"	1



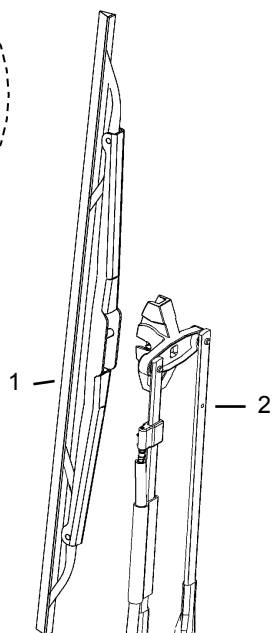
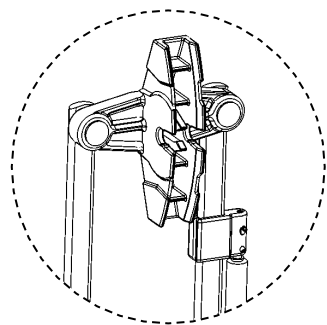
MT 5519 Telescopic Handler

Cab

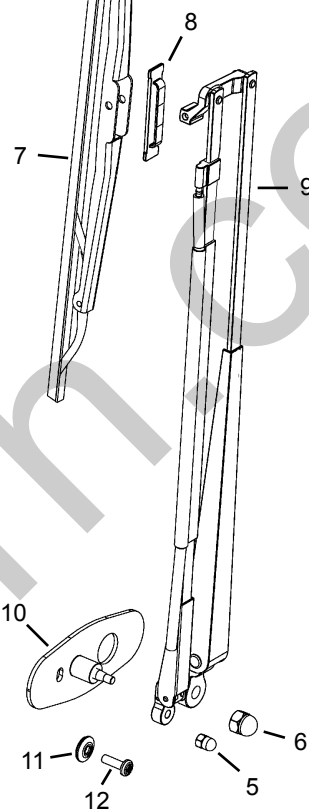
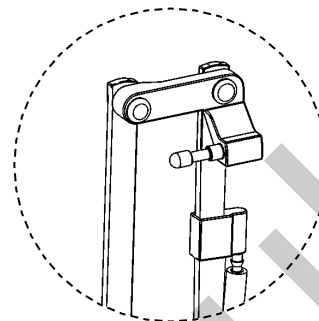
Front and Rear Window - Enclosed Cab (Option)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	808490	5/16"-18 ACORN NUT	AR	15 ^a	51200008	MOUNT, REAR-WINDOW STAY . . .	1
02	808420	5/16"-18X1" BUTTON HD BOLT . . .	4	16	808481	PIN, ROLL - 3/16"x1/2"	3
03	808421	5/16"-18X3/4" BUTTON HD BOLT . .	8	17	808488	HOLD OPEN, L-STYLE.	2
04	808491	BUSHING, STEEL	4	18	808487	HOLD OPEN, L-STYLE.	1
05	808483	GROMMET, 1/2"IDX1/4"GROOVE . .	6	19 ^a	809325	MOUNT, WIND. HOLD OPEN (RH). .	1
06	808422	5/16" FLAT WASHER (BLACK). . . .	4	20 ^a	808255	MOUNT, WIND. HOLD OPEN (LH). .	1
07	808495	HINGE, FRONT WINDOW	2				
08	808485	HINGE, PLASTIC (<i>rear window</i>) . .	1				
09	809320	GLASS, REAR.	1	<i>a</i>	<i>Use the parts listed below to fasten mount to frame:</i>		
10	809321	BULB SEAL, REAR GLASS	1	--	809180	1/4" FLAT WASHER	AR
11	51200645	BULB SEAL, FRONT GLASS	1	--	809181	1/4" LOCK WASHER.	AR
12	809317	GLASS, FRONT	1	--	808600	1/4"-20X5/8" BUTTON HD BOLT. .	AR
14	808486	PIN, QUICK DETACH.	AR				

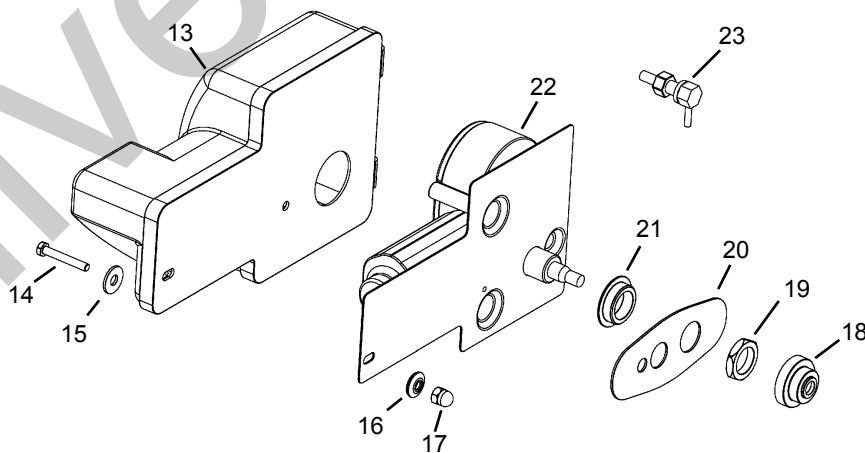
Wiper (Option) - Front and Top Window



**Late-Style
Wiper**

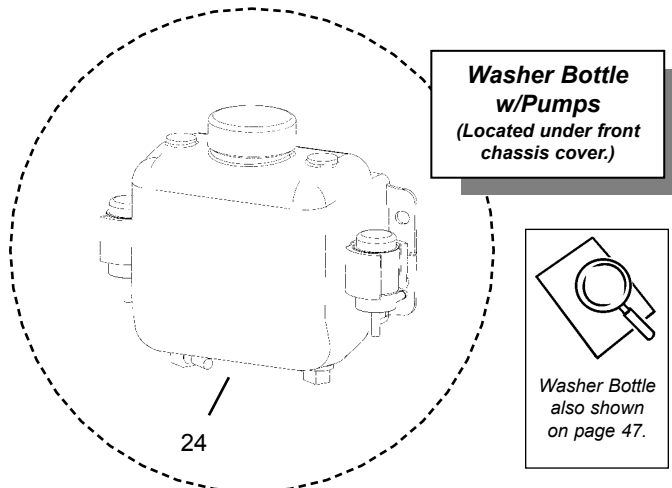


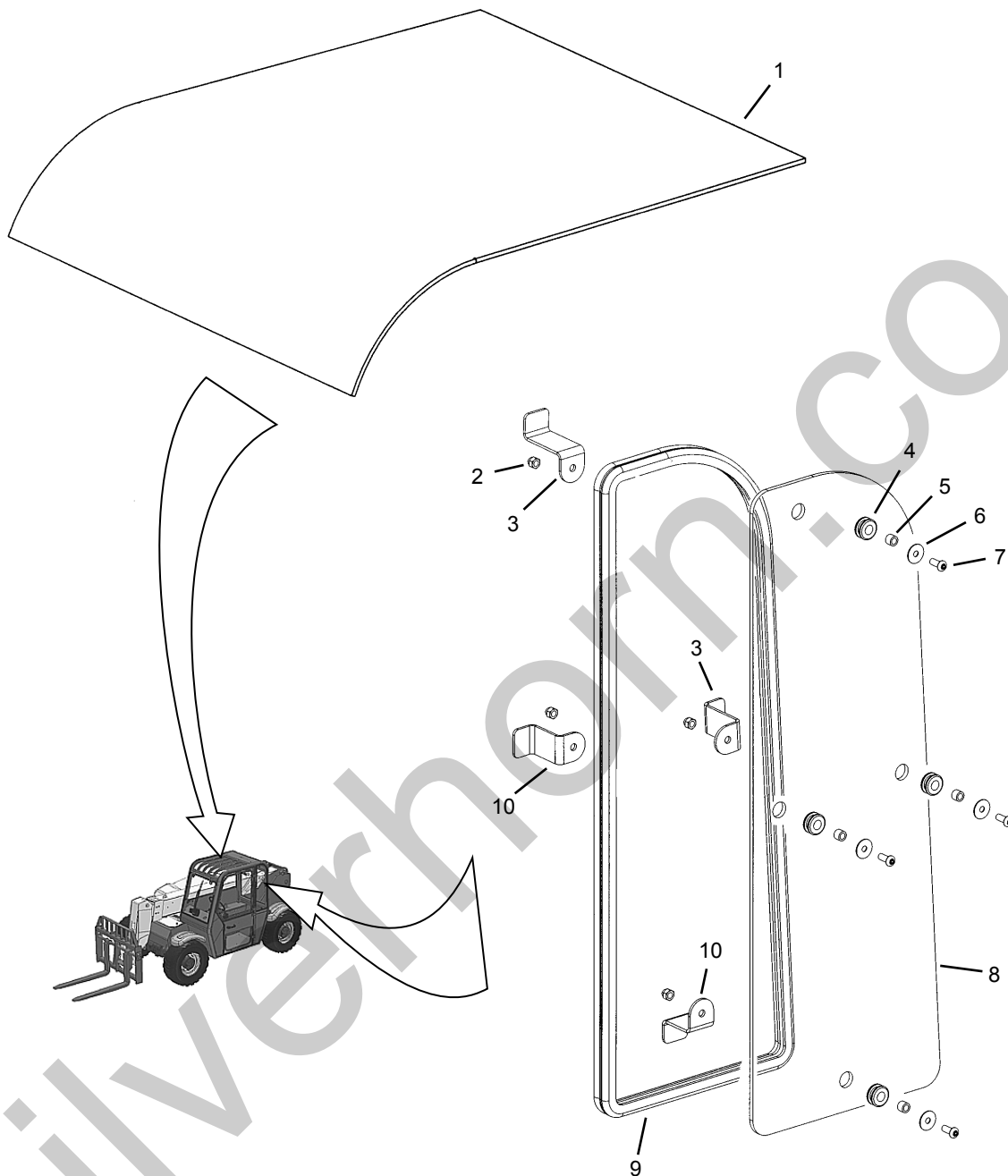
**Early-Style
Wiper**



Wiper (Option) - Front and Top Window

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380577	WIPER BLADE, 16".....	1	21	808570	TOWER SEAL, TRICO WIPER....	1
02		WIPER ARM, PANTOGRAPH.....	1	22	808561	WIPER MOTOR, TRICO.....	1
	50380576	Front Window		23	808320	ADAPTER/WET ARM.....	1
	50380682	Top Window		24	808089	BOTTLE, DUAL -PUMP WASHER .	1
03	50380579	PLATE, PANTO ARM MOUNT	1	-- ITEMS NOT SHOWN -- (Windshield Wiper Harness)			
04	50380583	PIN, PANTO ARM MOUNT	1				
05	808568	M5, ACORN NUT	1	--	809182	HARNESS, TOP WIPER.....	1
06	808564	M8, ACORN NUT	1	--	809183	HARNESS, FRONT WIPER	1
07	808320	WIPER BLADE, 16".....	1	(Windshield Washer System)			
08	808569	ADAPTER, PIN LOCK.....	1				
09		WIPER ARM, PANTOGRAPH.....	1	--	808321	HARNESS, WASHER BOTTLE ...	1
	NSS	Front window—see note a		--	808347	TUBING, WASHER (15-1/2')	1
	NSS	Top window—see note b					
10	808574	PANTO ADAPTER PLATE	1				
11	51200646	WASHER, #10 WEATHERTITE ...	1				
12	808572	SCREW, M5 16mm	1	a	The early style front wiper arm is no longer available; it will be necessary to order part number 50380585 Wiper Arm Kit, which contains items 1-4.		
13	808562	COVER WIPER MOTOR.....	1				
14	808573	BOLT / 10-24x1.25 HEX GR5	1				
15	808479	WASHER/BLK NYLON	1				
16	51200646	WASHER, #10 WEATHERTITE ...	2	b	The early style front wiper arm is no longer available; it will be necessary to order part number 50380683 Wiper Arm Kit, which contains items 1-4.		
17	808840	NUT/ACORN #10-24 BLK.....	1				
18	808571	RAIN SHIELD	1				
19	808563	M18, NUT	1				
20	808565	GASKET, PANTO ADAPTER	1				





MT 5519 Telescopic Handler

Cab

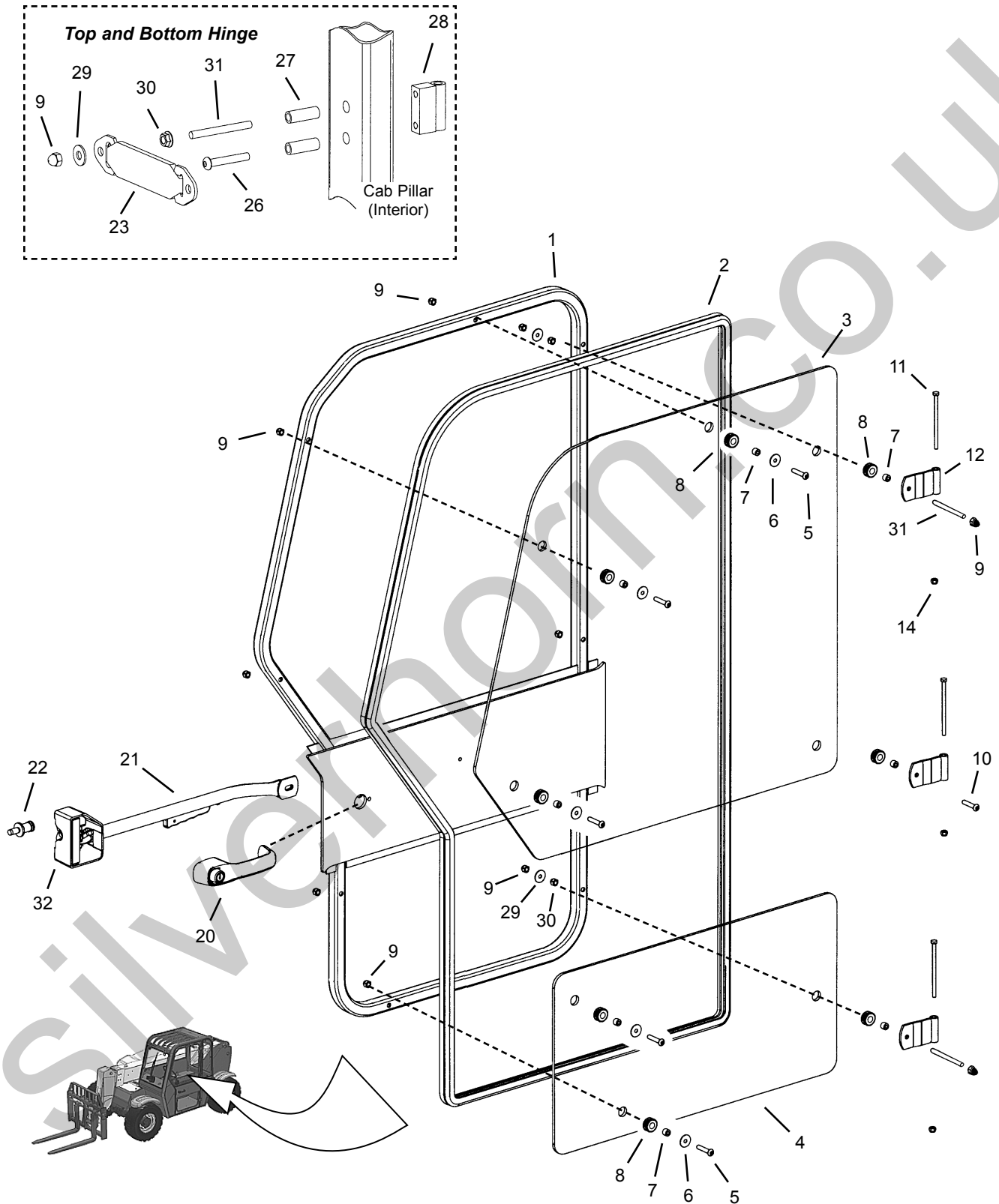
Window (Option) - Top and Left

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	809324	GLASS, TOP	1	08	809323	GLASS, LEFT REAR.	1
02	808490	5/16"-18 ACORN NUT	AR	09	809322	BULB SEAL, LEFT GLASS.	1
03	808252	WINDOW MOUNT.	2	10	808253	WINDOW MOUNT.	2
04	808483	GROMMET, 1/2"IDX1/4"GROOVE .	4				
05	808491	BUSHING, STEEL	4				
06	808422	5/16" FLAT WASHER (BLACK). . .	4				
07	808420	5/16"-18X1" BUTTON HD BOLT . .	4				
				a	Use P/N 808934 Adhesive Kit to attach top glass to cab.		

Cab

One-Piece Door (Option)

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

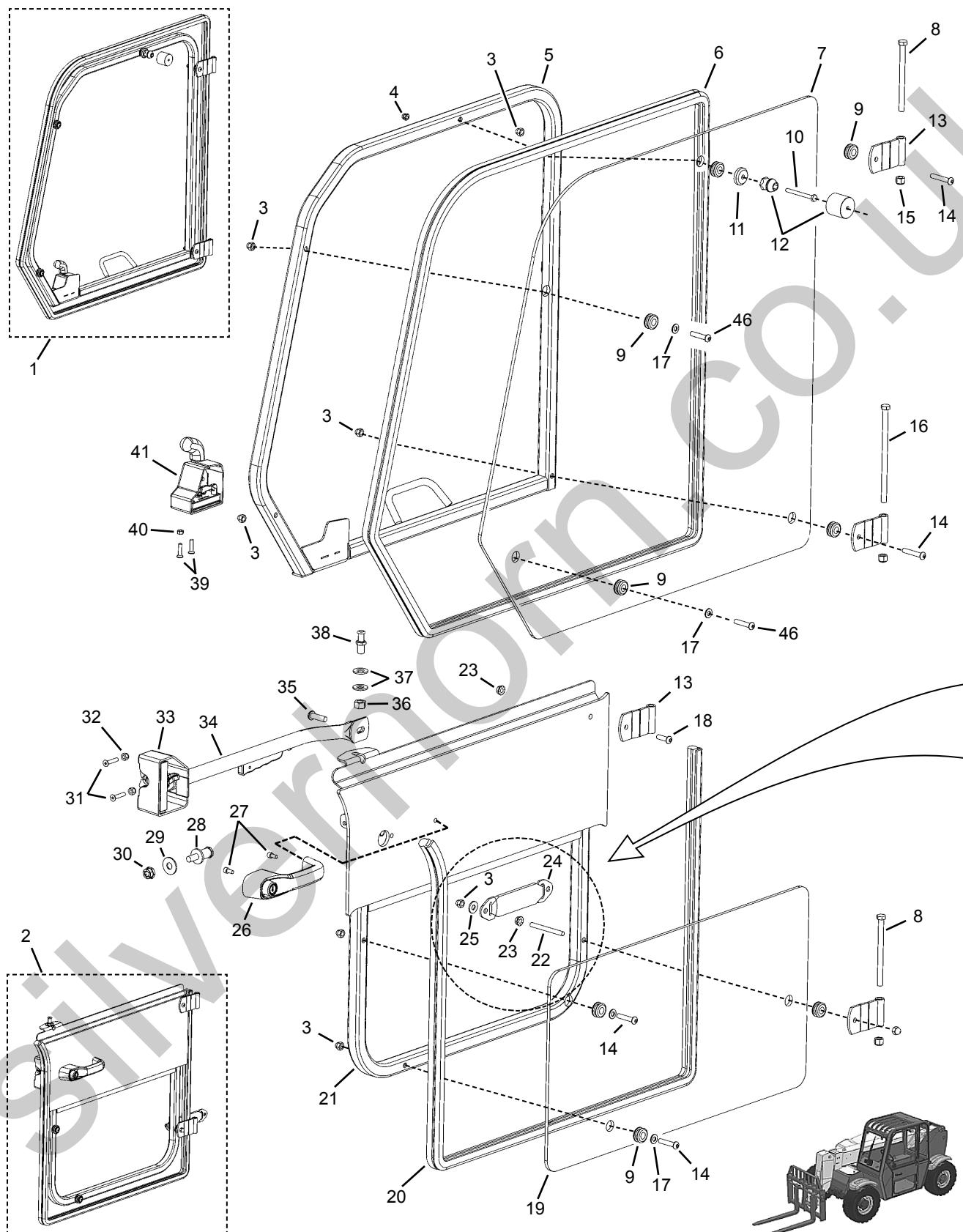
Cab

One-Piece Door (Option)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	51200647	CAB DOOR, ONE-PIECE 1 (includes items 1-10, 12, and 29-31)		21	808310	LATCH RELEASE, INTERIOR 1	
01	808303	WELDMENT, CAB DOOR FRAME . 1			809185	1/4-20X1-1/4" FLAT HD SCREW . . 2	
02	808246	BULB SEAL, DOOR FRAME 1			808600	1/4-20X5/8" BUTTON HD BOLT . . 1	
03	808238	GLASS, UPPER DOOR 1			809186	M6-1X12 8.8 BOLT 2	
04	808239	GLASS, LOWER DOOR 1			808484	FLAT WASHER (BLACK) 1	
05	808419	5/16"-18X1-3/4" BUTTON HD BOLT 5			808661	1/4"-20 NYLON INSERT NUT 2	
06	808422	5/16" FLAT WASHER (BLACK) . . . 5			808891	1/2" HOLE PLUG 2	
07	808491	BUSHING, STEEL 8		22	808086	STRIKER 1	
08	808483	GROMMET, 1/2"IDX1/4"GROOVE . 8			809187	7/16" LOCK WASHER 1	
09	808490	5/16"-18 ACORN NUT (BLACK) . . AR			809188	7/16" FLAT WASHER 1	
10	809184	5/16"-18X2" BUTTON HD BOLT . . 3			51200013	7/16"-14 NUT 1	
11	51200012	3/8"x5" BOLT 3		23	51200648	DOOR RESTRAINT STRAP 2	
12	808137	WELDMENT, DOOR HINGE 3		26	809184	5/16"X2" BUTTON HD BOLT 4	
14	808663	3/8" NYLON INSERT NUT 3		27	51200649	TUBE, STAND-OFF 6	
20	808327	HANDLE, EXT. DOOR LOCKING . . 1		28	51200650	HINGE, BOLT-ON 3	
	808097	KEY ONLY 1		29	813610	5/16" FLAT WASHER AR	
				30	808555	5/16" WHIZ NUT AR	
				31	809494	5/16"X3" STUD AR	
				32	813433	COVER (included with #21) 1	

Cab
Split-Door (Option)

MT 5519 Telescopic Handler

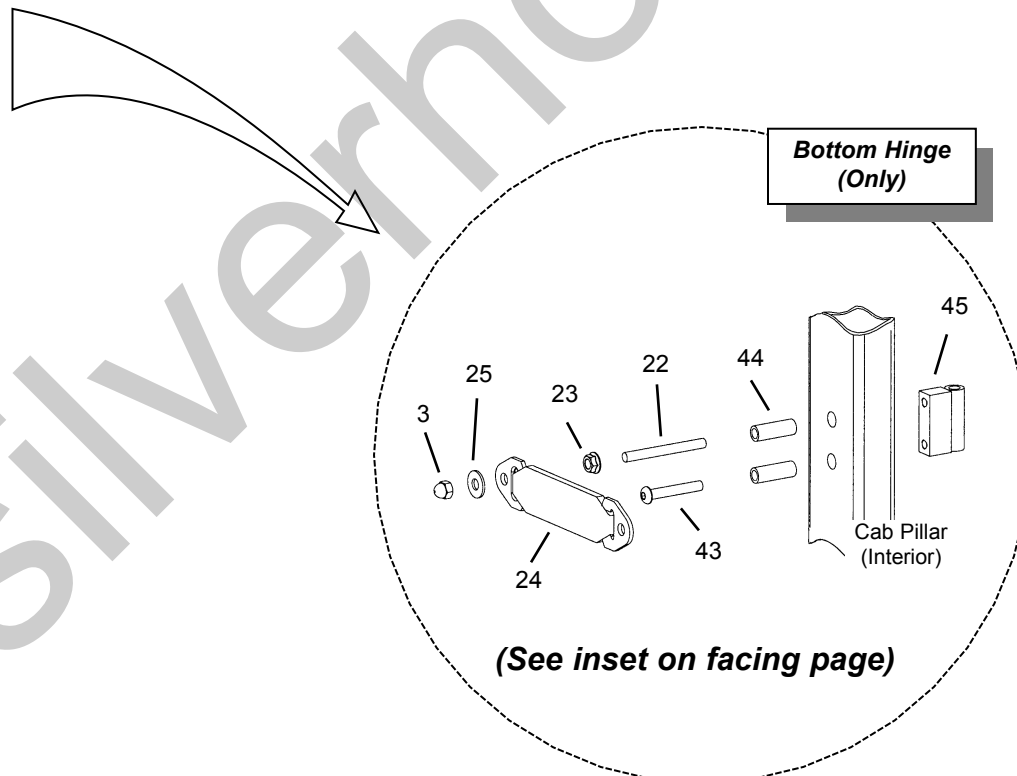


MT 5519 Telescopic Handler

Cab

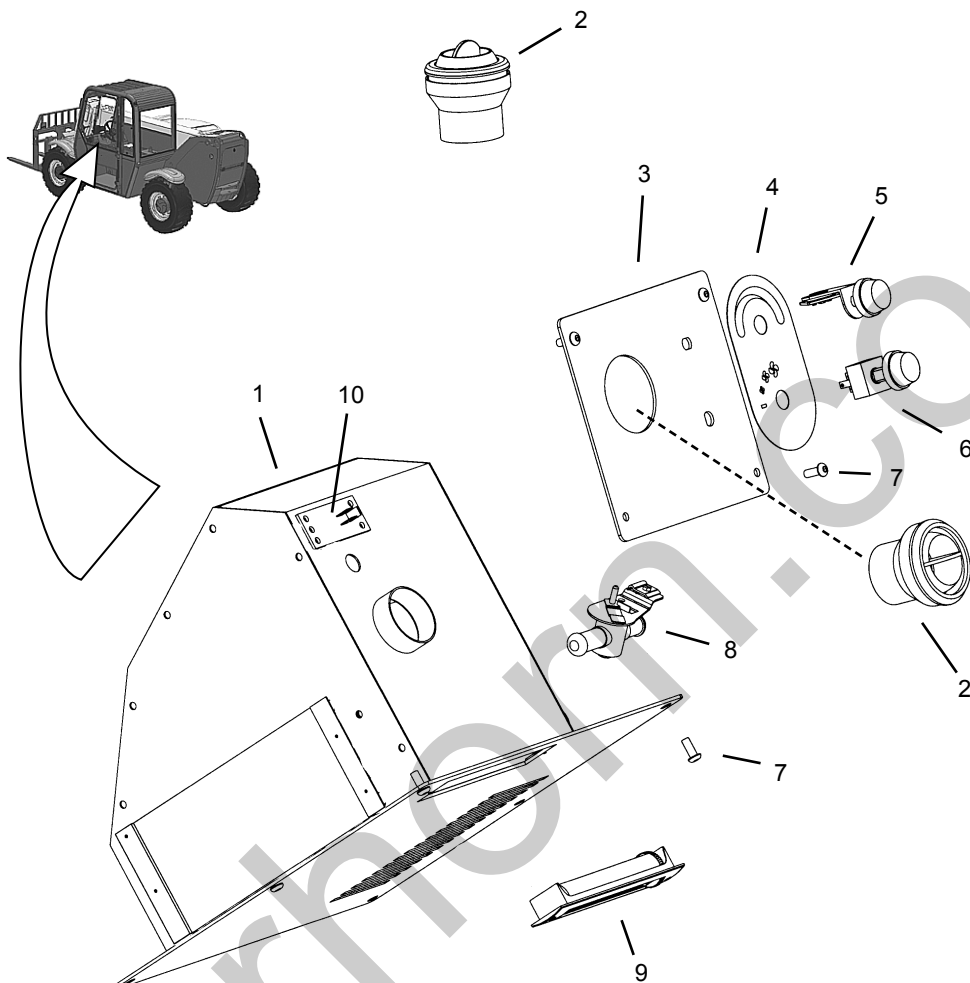
Split-Door (Option)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200652	DOOR, TOP..... 1 (includes items 3-7, 9-14, 16-17, 39-41)	1	23	808555	FLANGE LOCK NUT 5/16"..... 2	2
02	51200653	DOOR, BOTTOM..... 1 (includes items 13, 16-27, 31-38)	1	24	51200648	DOOR RETAINER..... 1	1
03	808490	5/16"-18 ACORN NUT (BLACK)..... AR	AR	25	813610	FW 5/16" AWZY..... 1	1
04	813389	1/4" ACORN NUT (BLACK)..... 1	1	26	808327	HANDLE, EXTERIOR LOCKING... 1	1
05	51200654	FRAME, UPPER DOOR..... 1	1		808097	KEY ONLY..... 1	1
06	51200655	BULB SEAL, UPPER DOOR..... 1	1	27	809186	SHCS M6-1x12 C8.8 ZY DIN912... 2	2
07	51200656	GLASS, UPPER DOOR..... 1	1	28	808086	STRIKER..... 1	1
08	51200012	CS 3/8" x 5" C5ZY..... 2	2	29	809188	FW 7/16" AWZY..... 1	1
09	808483	GROMMET, .50X0.25X0.81..... AR	AR	30	51200013	HN 7/16" FLEXLOCK GR5..... 1	1
	808491	BUSHING, STEEL (not shown) .. AR	AR	31	809185	FHSCS 1/4"x1-1/4" CZY..... 2	2
10	51200664	CS 1/4" x 2-1/2" C5ZY..... 1	1	32	51200651	HLN INST 1/4 CZY..... 2	2
11	808094	GLASS MOUNT..... 1	1	33	813433	COVER (included with #34)..... 1	1
12	808489	DOOR HOLDER (set)..... 1	1	34	808310	LATCH RELEASE, INTERIOR.... 1 (includes cover: item #33)	1
13	808137	DOOR HINGE..... 3	3	35	813549	BHSCS 3/8"x1-1/4" CZY..... 1	1
14	808419	BHSC 5/16" x 1-3/4" C RIE..... 615	615	36	51200660	HN M12-1.00 F8ZY DIN934..... 1	1
813656		HLN 3/8" CZY..... 3	3	37	51200661	FN 1/2 ANZY..... 2	2
16	51200657	CS 3/8" x 7" C5ZY..... 1	1	38	813430	STRIKER..... 1	1
17	808422	FW 5/16 RIE..... AR	AR	39	51200662	FHSCS M6-1x25 C8.8 DIN7901... 2	2
18	808420	BHSCS 5/16" x 1-3/4" C RIE..... 1	1	40	51200663	HN M6-1.00 C8 DIN934..... 1	1
19	808239	GLASS, LOWER DOOR..... 1	1	41	813417	LATCH, ROTARY (RIGHT)..... 1	1
20	51200658	BULB SEAL, LOWER DOOR..... 1	1	42	809494	5/16"X3" STUD..... AR	AR
21	51200659	FRAME, LOWER DOOR..... 1	1	43	809184	5/16"X2" BUTTON HD BOLT..... 5	5
22	809494	STUD 5/16" x 3" GR5..... 1	1	44	51200649	TUBE, STAND-OFF..... 6	6
				45	51200650	HINGE, BOLT-ON..... 3	3



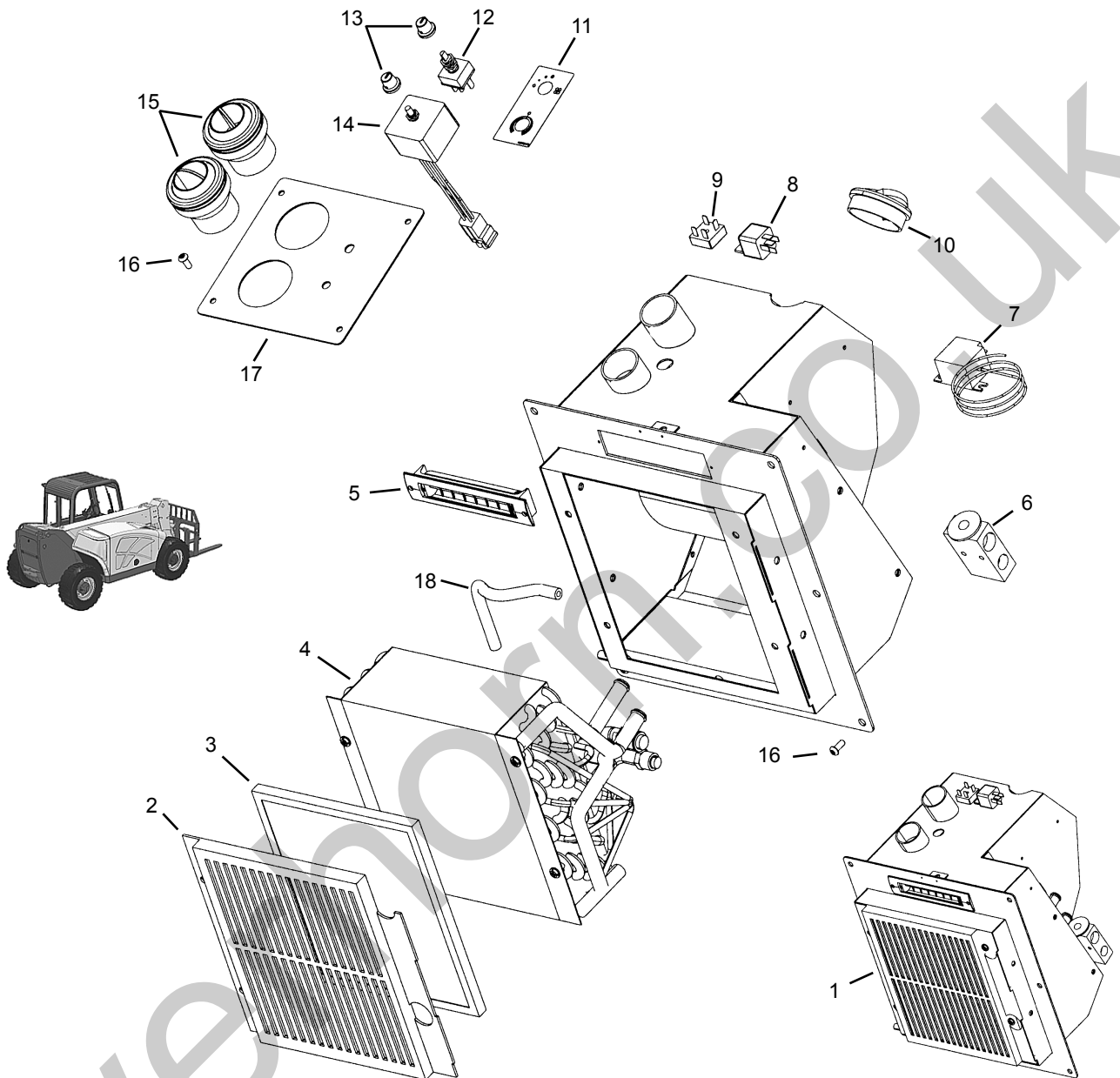
Heater (Option)

MT 5519 Telescopic Handler

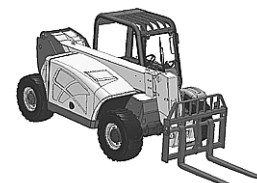
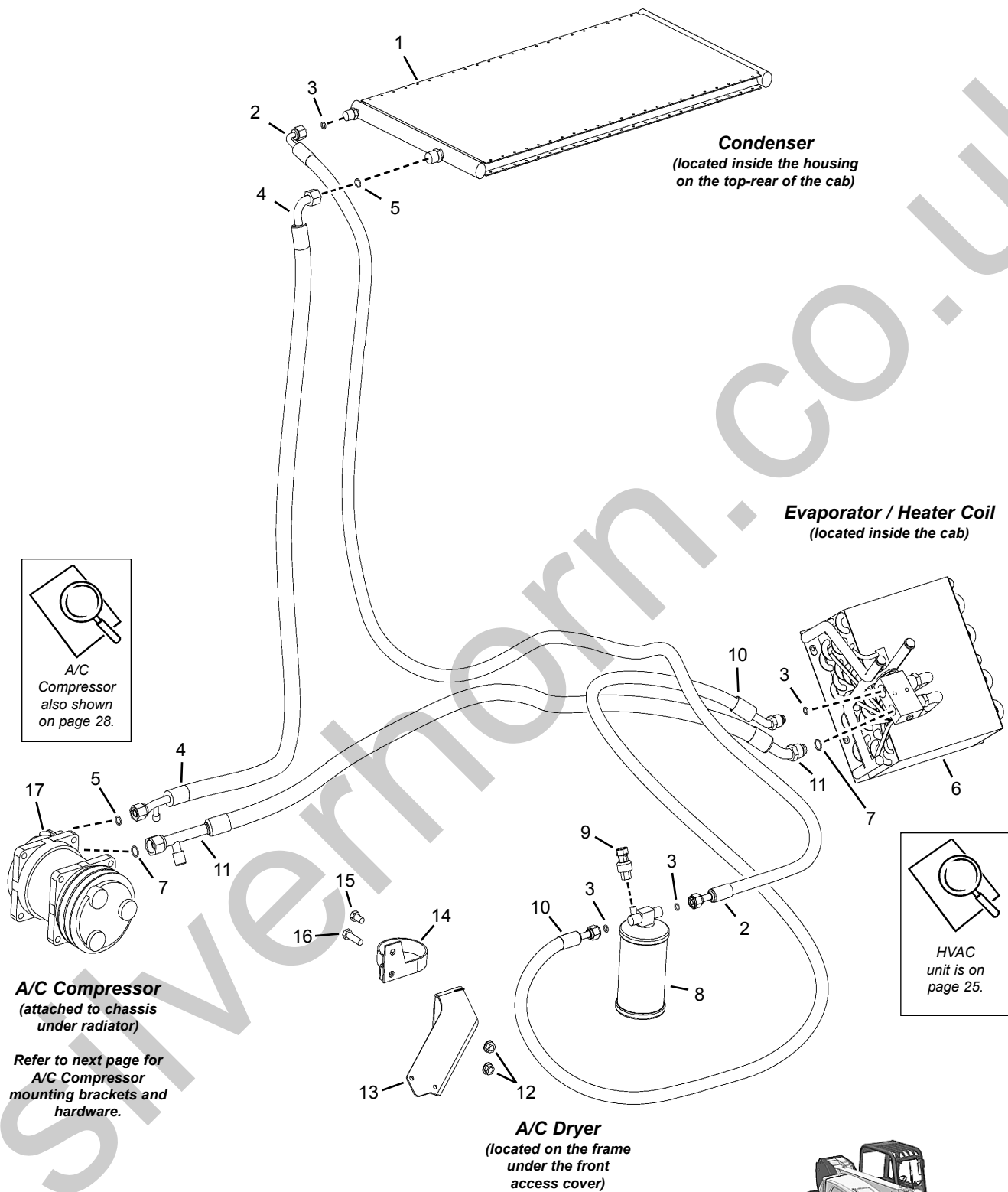


Ref. No.	Part No.	Description	Qty. Req.
01	808318	HEATER ASSEMBLY	1
		<i>(Includes items 5, 6, 8, 9 and 10)</i>	
	809351	BLOWER MOTOR <i>(only)</i>	1
02	51200030	GRILL, DEFROSTER	2
03	808324	INSTRUMENT PANEL	1
04	808325	DECAL, HEAT CONTROL	1
05	808352	CONTROL, TEMPERATURE	1
	809165	KNOB ONLY	AR
06	808411	SWITCH, VARIABLE SPEED	1

Ref. No.	Part No.	Description	Qty. Req.
07	808600	1/4"-20X5/8" BUTTON HD BOLT	10
08	808496	VALVE, WATER	1
09	808412	LOUVER	1
10	51200031	RESISTOR BLOCK	1
-- ITEMS NOT SHOWN --			
--	NSS	5/8" HEATER HOSE (10')	1
--	51200665	HOSE CLAMP, SAE #10	AR



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200032	HVAC ASSEMBLY.....1 (Includes items 2-9)	1	09	51200038	RECTIFIER PACK.....1	1
	51200033	FAN (only - included with item 1) ..	1	10	51200039	LOUVER	1
02	51200034	FILTER COVER.....1	1	11	51200040	DECAL, A/C HEATER CONTROL..	1
03	51200000	FILTER, CAB AIR	1	12	808411	SWITCH, VARIABLE SPEED	1
04	51200035	EVAPORATOR/HEATER COIL	1	13	51200041	KNOB.....2	2
05	808412	LOUVER	1	14	51200042	MODULE, A/C CONTROL.....	1
06	51200045	EXPANSION VALVE	1	15	51200030	GRILL, VENT.....2	2
07	51200036	COLD CONTROL SWITCH.....	1	16	808600	1/4"-20X5/8" BUTTON HD BOLT ..	10
08	51200037	RELAY	1	17	51200043	PANEL, HVAC CONTROL.....	1
				18	51200044	HOSE, OVERFLOW	1

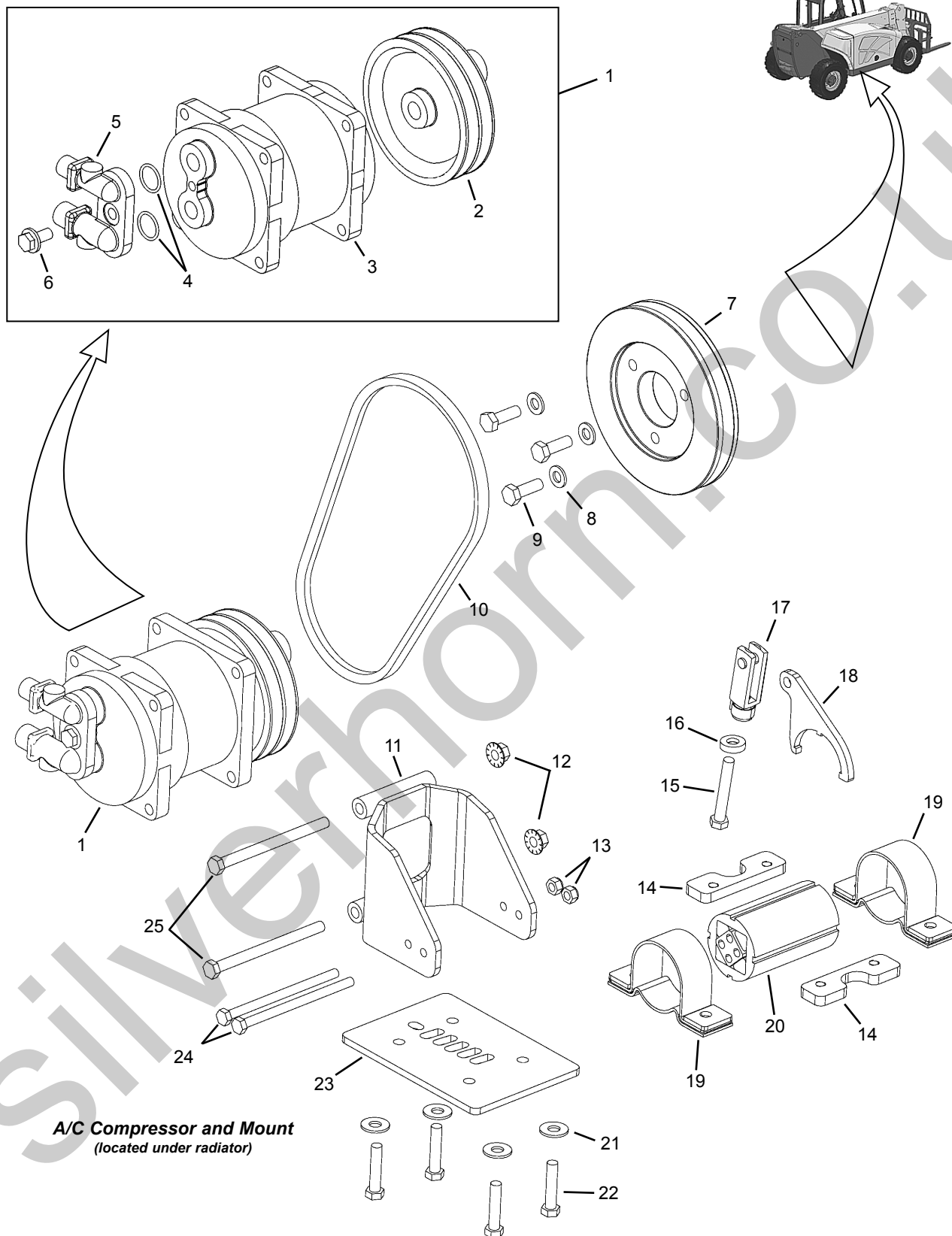


MT 5519 Telescopic Handler

Cab

A/C Circuit - (A/C Option)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	813516	CONDENSER	1	15	51200059	CS 3/8" x 5/8" C5ZY	1
02	51200666	HOSE, #6 CONDENSER/DRYER..	1	16	813713	CDS 3/8" x 1" C5ZY	1
03	51200047	O-RING.....	AR	17	51200671	A/C COMPRESSOR	1
04	51200667	HOSE, #8 COND./COMPRESSOR.	1				
05	51200049	O-RING.....	AR			-- ITEMS NOT SHOWN --	
06	51200035	EVAPORATOR/HEATER COIL	1	--	51200672	WIRE HARNESS, A/C COND.	1
07	51200051	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	51200056	A/C DRYER (does not include #9) .	1				
09	51200057	SWITCH, BINARY	1				
10	51200668	HOSE, #6 DRYER/EVAPORATOR.	1				
11	51200669	HOSE, #10 COMP./EVAPORATOR.	1				
12	808471	HN FL SLOC 3/8" CZY	2				
13	51200670	BRACKET, DRYER MOUNT	1	--	51200673	WIRE HARNESS, A/C EVAP.	1
14	51200058	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.)	

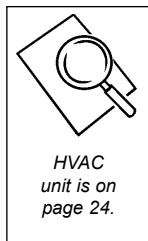
A/C Compressor and Mount (A/C Option)

MT 5519 Telescopic Handler

Cab

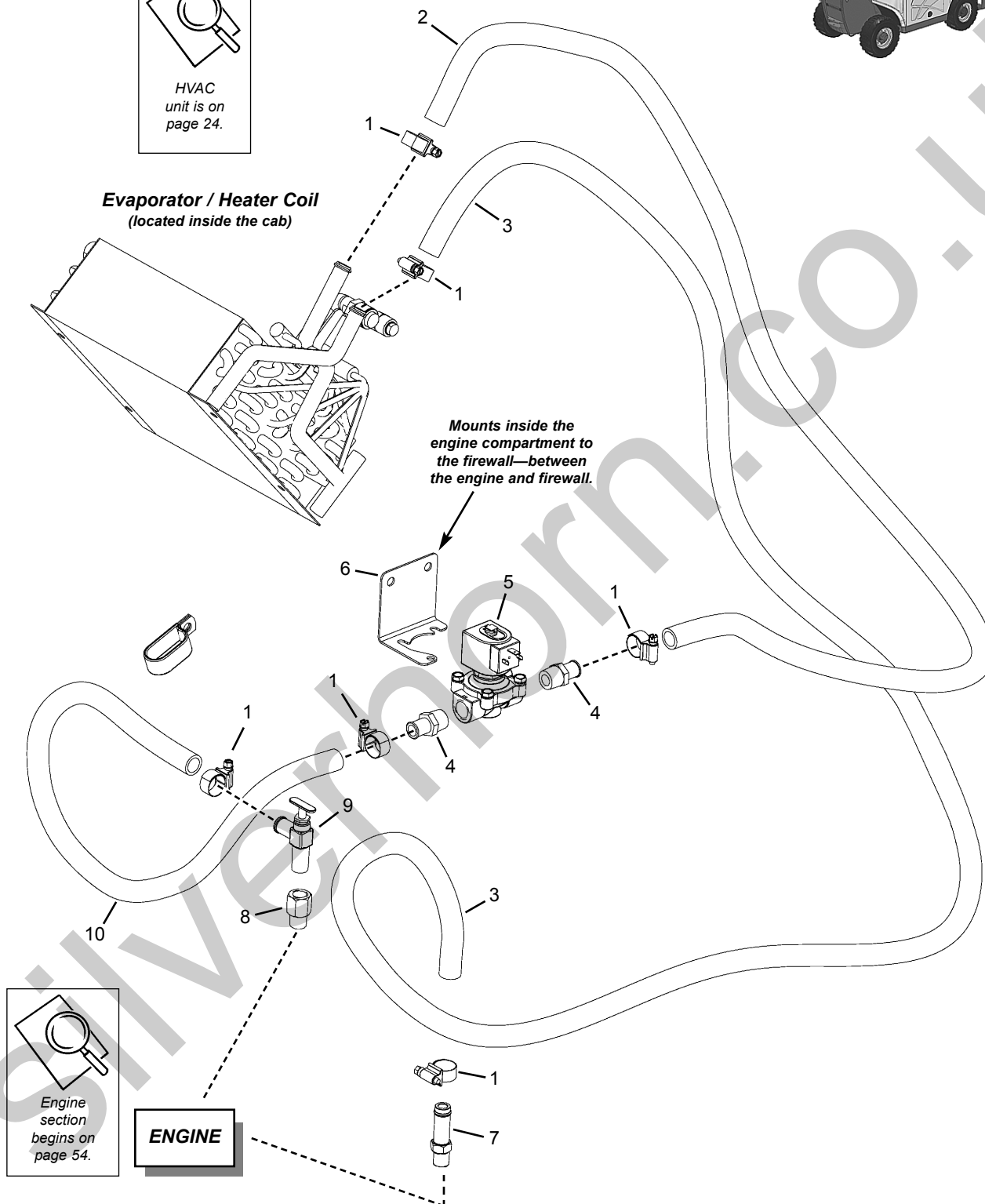
A/C Compressor and Mount (A/C Option)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200671	A/C COMPRESSOR	1	13	51200683	LN INST M8-1.25 C8 ZY DIN985 . .	2
		(includes items 2-6)		14	51200684	PLATE, CLAMP 3/8"-16.	2
02	51200674	CLUTCH, A/C COMPRESSOR	1	15	51200685	CS 3/8" x 2-1/2" F5ZY SP	1
03	NSS	COMPRESSOR BODY	1	16	51200686	WASHER SPHERICAL 3/8"	1
04	51200675	O-RING SET, MANIFOLD	1	17	51200687	YOKE, CLEVIS 3/8"-24 UNF	1
05	51200676	A/C COMPRESSOR MANIFOLD . . .	1	18	51200688	PLATE, TORSION WRENCH	1
06	51200677	HW HMS M10 x 20	1	19	51200689	CLAMP, TORSION MOUNT	2
07	51200678	PULLEY, A/C CRANK	1	20	51200690	MOUNT, SUSPENSION	1
08	51200679	FW M10 ZY DIN125	3	21	813591	FW 3/8" AWZY	4
09	51200680	CS M10-1.5x30 C10.9 ZY DIN931 .	3	22	814029	CS 3/8" x 1-3/4" C5ZY	4
10	51200614	BELT, A/C COMPRESSOR	1	23	51200691	PLATE, COMPRESSOR BASE	1
11	51200681	A/C COMPRESSOR MOUNT	1	24	51200692	CS M8-1.25x130 C8.8 ZY DIN931 .	2
12	51200682	HN LF SLOC 3/8" CZ	2	25	51200012	CS 3/8" x 5" C5ZY	2

Heater Circuit - (A/C - Option)

Evaporator / Heater Coil
(located inside the cab)

Mounts inside the
engine compartment to
the firewall—between
the engine and firewall.



MT 5519 Telescopic Handler

Cab

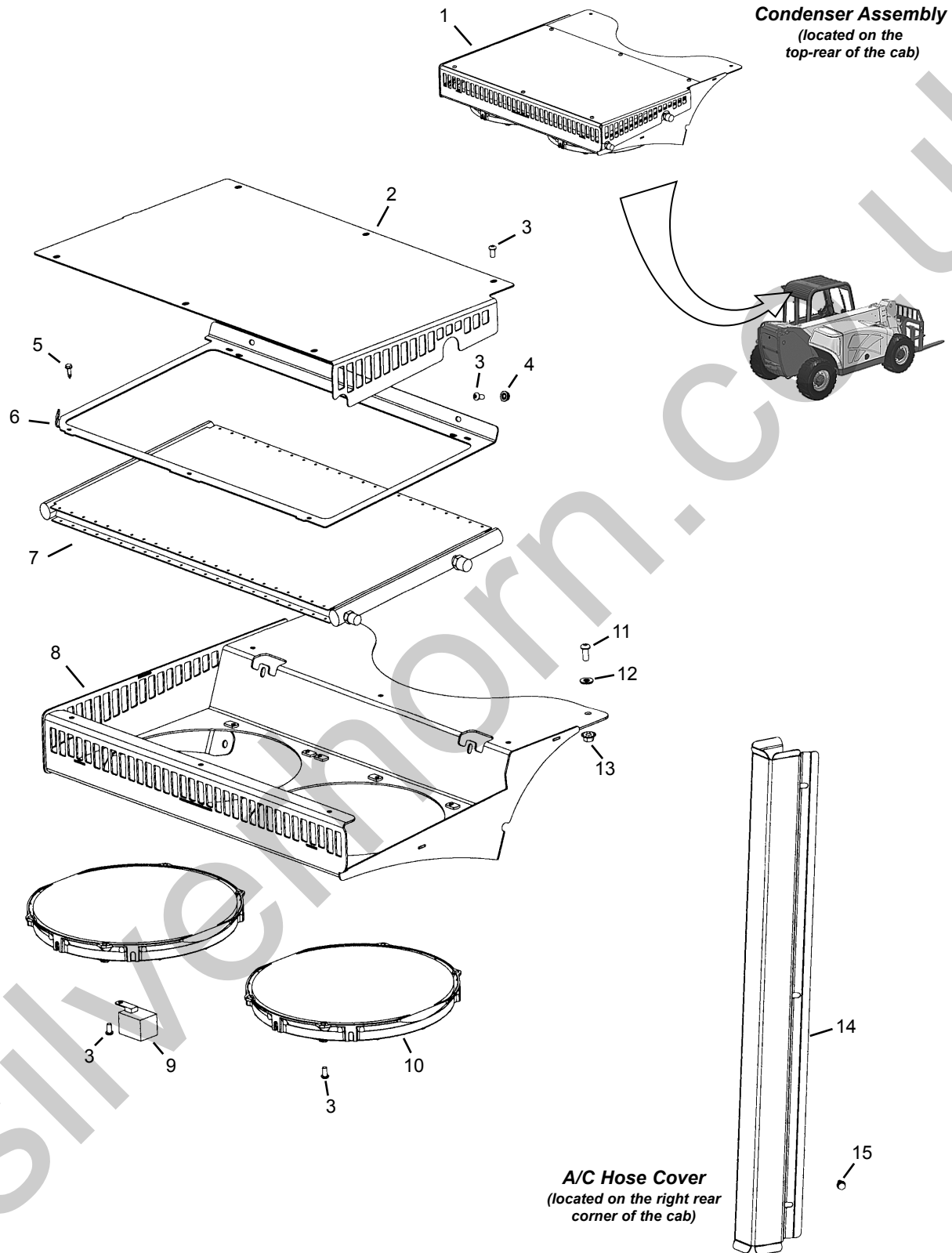
Heater Circuit - (A/C - Option)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200063	CLAMP, HOSE #10	6	07	51200696	ST-L HB10-MBSPT06	1
02	51200693	HEATER HOSE, 5/8" x 63"	1	08	51200697	ST FP06-MBSPT06	1
03	51200694	HEATER HOSE, 5/8" X 100"	1	09	808844	SHUT-OFF, MANUAL	1
04	51200066	ST 1/2MPT x 5/8" HOSE	2	10	51200698	HEATER HOSE, 5/8" x 32"	1
05 ^a	51200067	HEATER-A/C SOLENOID	1				
06	51200695	VALVE BRACKET	1	a	Solenoid valve is attaches to the A/C evaporator wire harness (P/N 51200673).		

Cab

A/C Condenser - (A/C Option)

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

Cab

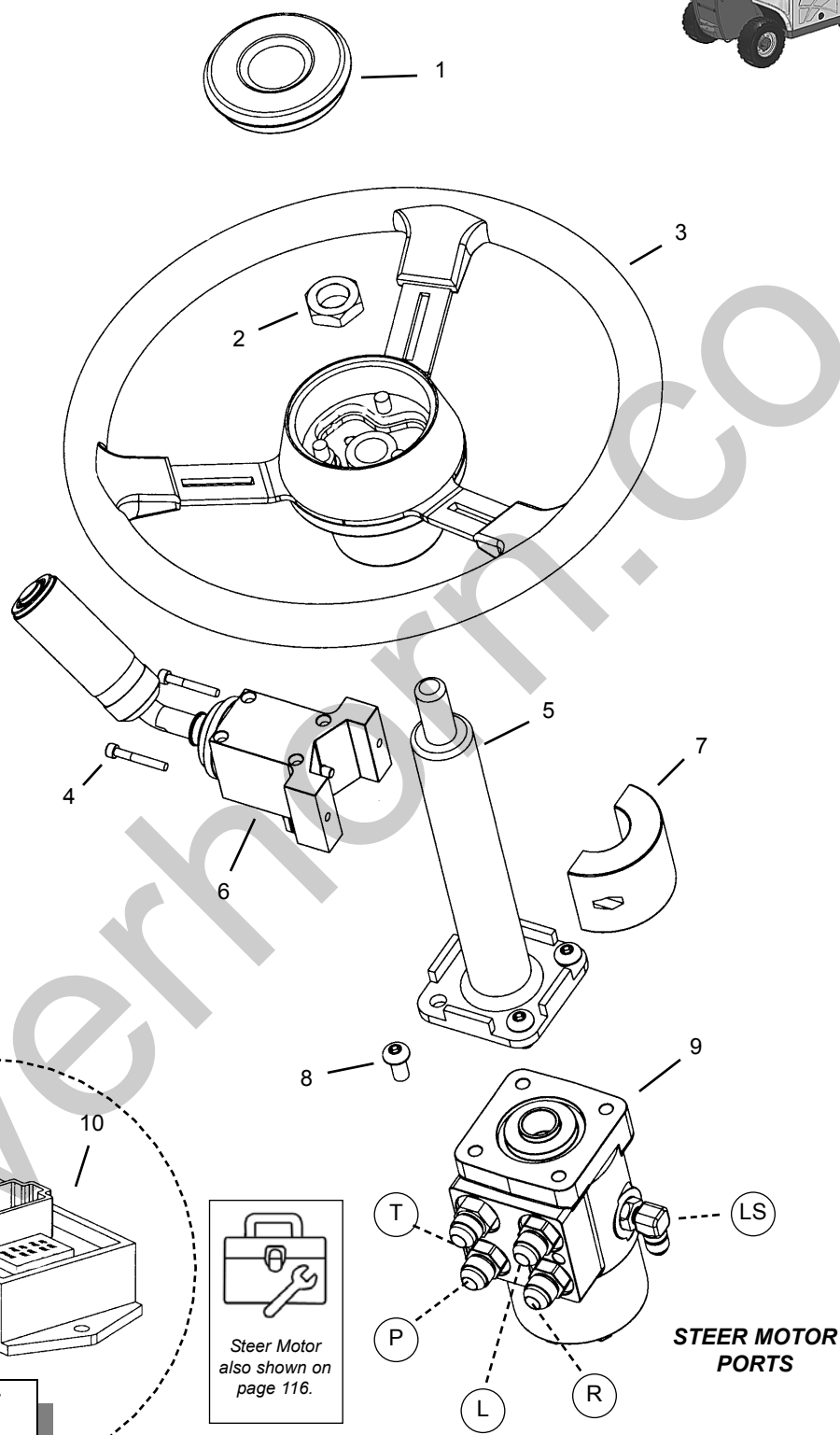
A/C Condenser - (A/C Option)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200069	CONDENSER ASSEMBLY 1 (includes items 1-10)		12	51200075	FW 5/16" ZY SEALING 4	
02	51200070	COVER, CONDENSER HOUSING . 1		13	51200076	LN LG FL SERR 5/16 CZ 4	
03	51200071	BHSCS 1/4" x 1/2" 17		14	50380634	COVER, A/C HOSES 1	
04	808545	FLANGE LN 1/4"-20 2		15	813367	SELF-TAP SCREW 1/4" x 1/2" 3	
05	813517	SELF-TAP SCREW 3/16" x 5/8" . . 6		-- ITEMS NOT SHOWN --			
06	51200072	MOUNT, CONDENSER COIL 1		--	51200672	WIRE HARNESS, A/C COND. 1	
07	813516	CONDENSER COIL 1		(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	51200073	CONDENSER HOUSING 1					
09	51200074	RELAY 1					
10	813514	CONDENSER FAN ASSEMBLY . . . 2					
11	808421	BHSCS 5/16" x 3/4" 4					

Cab

Steering Column and Shifter Group

MT 5519 Telescopic Handler



Transmission Shift Module

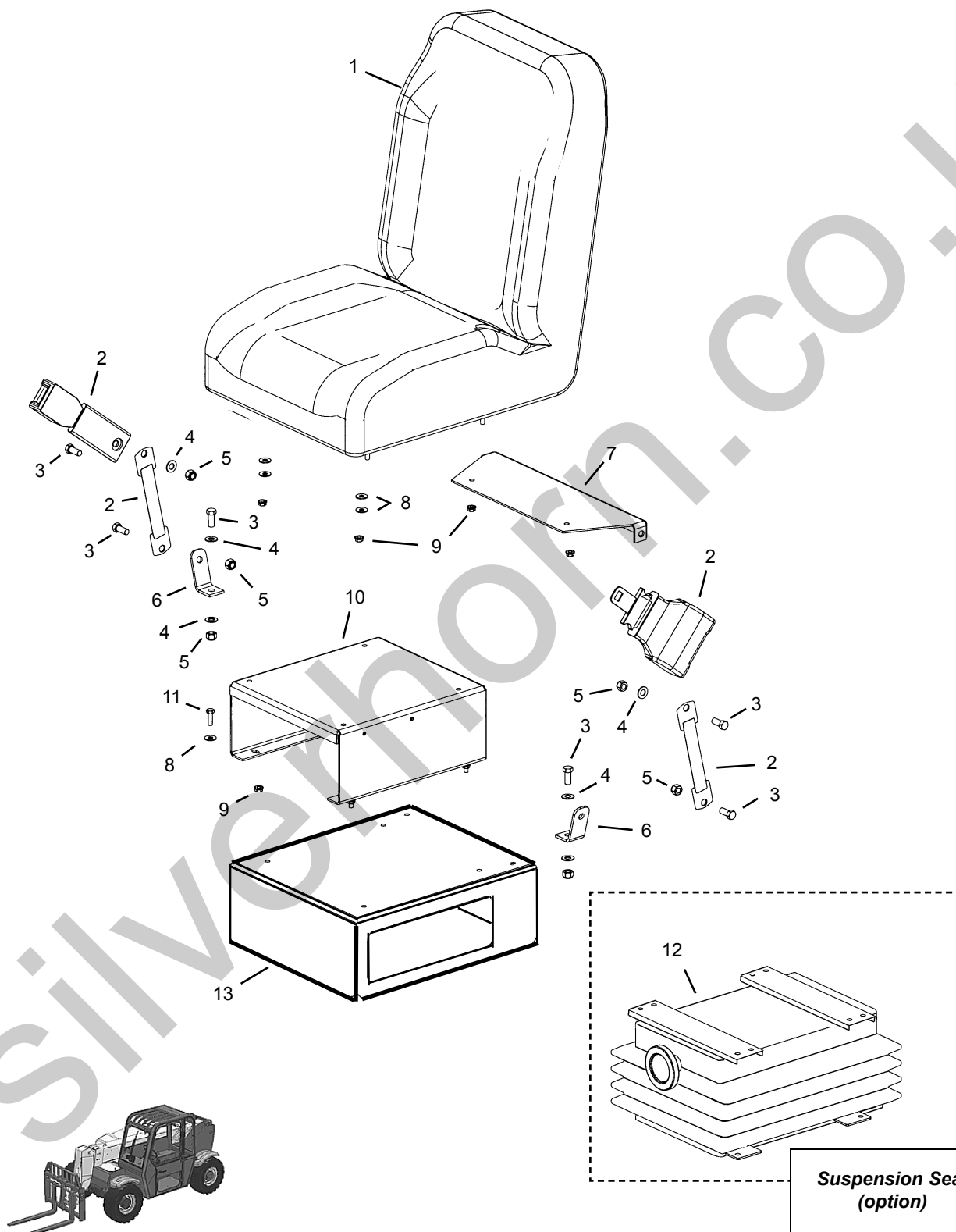
(Located next to fuse box—
under the load charts.)

Steer Motor
also shown on
page 116.

STEER MOTOR
PORTS

Cab

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	808435	CAP, STEERING WHEEL	1	08	813549	3/8"-16X1-1/4" BUTTON HD BOLT .	4
02	808436	NUT, STEERING WHEEL	1	09	51200702	MOTOR, STEER	1
03	808432	STEERING WHEEL	1	10	808099	MODULE, F-N-R SHIFTER.	1
04	808586	M5X.8X35mm HX SKTHD BOLT ..	2				
05	808262	COLUMN, STEERING.	1				
06	51200701	F-N-R SHIFTER (<i>includes #7</i>). . . .	1			-- ITEMS NOT SHOWN --	
	809130	BOOT	1	--	51200703	WIRE HARNESS, FNR SHIFTER..	1
07	813560	CLAMP, SHIFTER(<i>included w/ #6</i>) .	1				



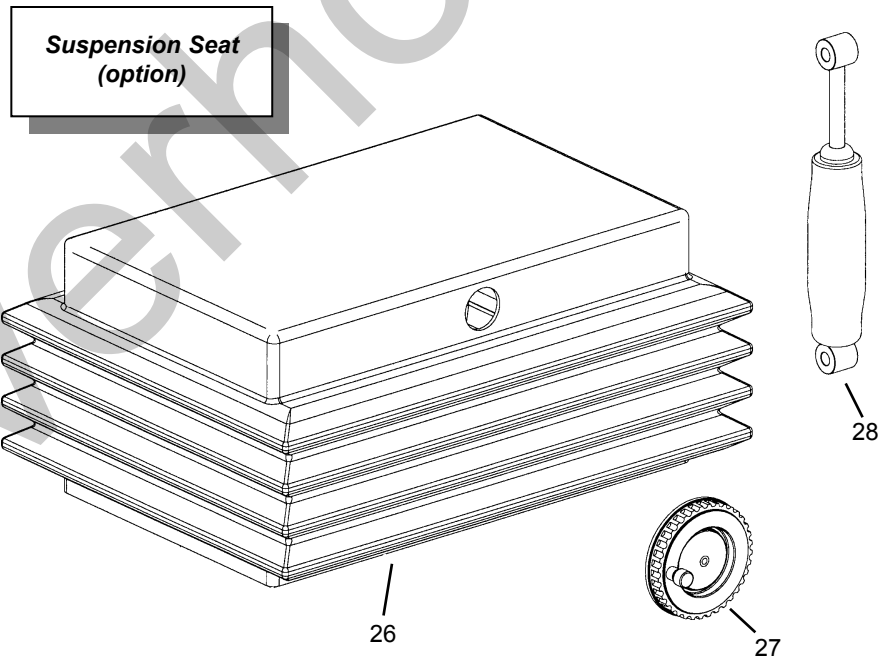
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	813608	SEAT, OPERATOR'S (wo/armrest) . . . 1		12 ^{cd}	808835	BELLOWS, SUSPENSION SEAT . . . 1	
02	51200704	SEAT BELT (includes tethers) 1		13	808343	PEDESTAL / BOLT-ON SEAT 1	
03	813609	7/16"-20X1" BOLT AR					
04	808598	7/16" FLAT WASHER AR					
05	808625	7/16"-20 NYLON INSERT NUT . . AR		26 ^c	813615	BELLOWS, SEAT (boot only) 1	
06	808899	BRACKET, TETHER 2		27 ^c	813616	ADJUSTMENT KNOB 1	
07 ^a	51200705	MOUNT, SEAT BELT 1		28 ^c	813617	SHOCK, SUSP. SEAT 1	
08	813610	5/16" FLAT WASHER AR					
09	808555	5/6"-18 NYLON INSERT NUT . . . AR					
10 ^b	809195	SEAT RISER 1					
11	813598	5/16"-18X1" BOLT AR					

a Use this bracket for standard and suspension seats. Discard the bracket that is included with the suspension.

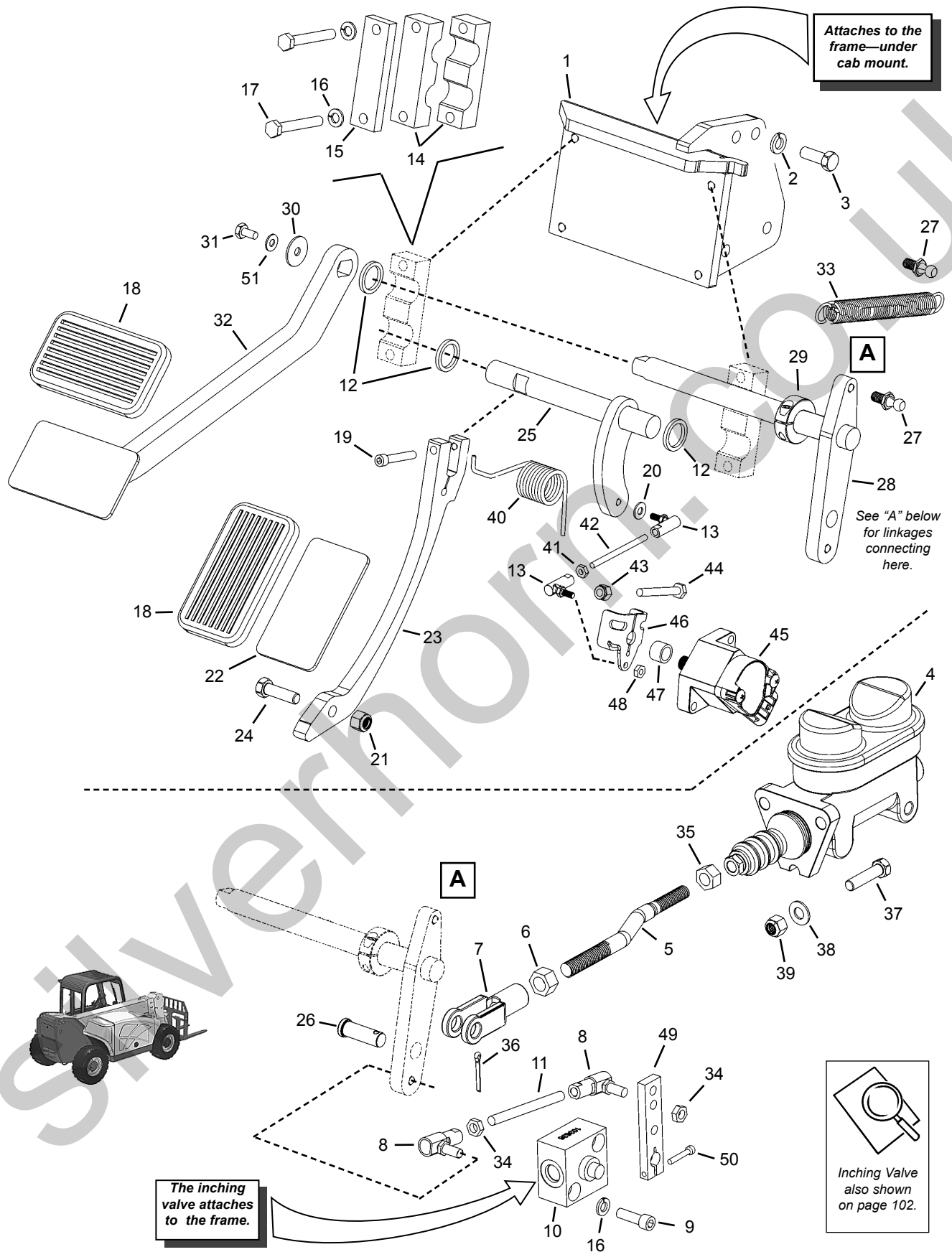
b Not used with suspension seat

c Used for suspension seat option only

d Discard tether bracket and use item #7 on all applications.



Pedals - Brake and Accelerator

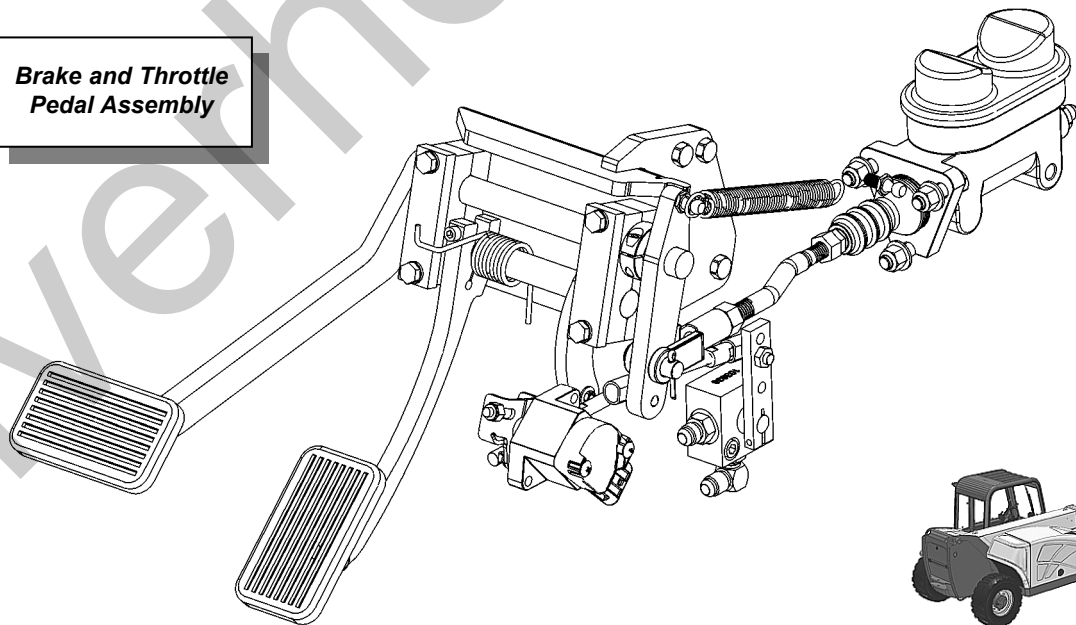


Pedals - Brake and Accelerator

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200706	BRAKE/THROTTLE FRAME	1	29	51200718	SHAFT COLLAR	1
02	813849	3/8" LOCK WASHER	AR	30	808484	1/4"x1"OD WASHER	1
03	813574	3/8"x1" BOLT	AR	31	809742	1/4"x1/2" BOLT	1
04	808714	VALVE, MASTER CYL. BRAKE . . .	1	32	51200719	BRAKE PEDAL WELDMENT	1
05	51200707	BRAKE LINKAGE WELDMENT . . .	1	33	808674	RETURN SPRING	1
06	51200708	1/2" NUT	1	34	51200720	5/16"-18 UNF JAM NUT	2
07	808675	YOKE, CLEVIS 1/2"	1	35	51200721	7/16" JAM NUT	1
08	813629	BALL JOINT LINKAGE 5/16"	2	36	808630	1/8"x1" COTTER PIN	1
09	51202289	5/16"x1" SOCKET HEAD BOLT . . .	2	37	813697	3/8"x1-1/2" BOLT	3
10	51200710	INCHING VALVE	1	38	813591	3/8" FLAT WASHER	3
11	813630	ROD, LINKAGE	1	39	808663	3/8" NYLON INSERT NUT	3
12	51200711	NYLON SPACER	AR	40	51200722	SPRING, THROTTLE RETURN . . .	1
13	813658	BALL JOINT 10-32 x 1/4"	2	41	813659	HN MS #10-32 FZY	1
14	51200712	CUSHION BLOCK, BRAKE	AR	42	51200723	ROD, THREADED 10-32UNF	1
15	808729	PLATE	2	43	51200651	HLN INST 1/4" CZY	1
17	814382	5/16"x2-1/4" BOLT	AR	44	51200090	CS 1/4X2 C5ZY	1
18	813602	PAD, PEDAL	AR	45	51200724	SENSOR, THROTTLE	1
19	51200713	1/4"x1-1/2" SH BOLT	1		809180	FW 1/4" (not shown)	2
20	809180	1/4" FLAT WASHER	1		813570	CS 1/4x3/4" (not shown)	2
21	808663	3/8" NYLON INSERT NUT	AR	46	51200726	BRACKET, THROTTLE	1
22	51200714	THROTTLE PEDAL WELD.	1	47	51200727	RING, SPACER	1
23	51200715	THROTTLE PEDAL ARM	1	48	51200728	HLN INST 1/4 FZY	1
24	813713	3/8"x1-1/4" BOLT	1	49 ^a	NSS	LEVER, INCHING VALVE	1
25	51200716	THROTTLE LEVER WELD.	1	50 ^a	51200729	SHCS M5-0.8x20 C8.8ZY	1
26	808466	1/2"x27/64 CLEVIS PIN	1	51	809181	1/4" FW	1
27	813651	BALL STUD	2				
28	51200717	BRAKE LEVER WELDMENT	1				

a Included with item #10.

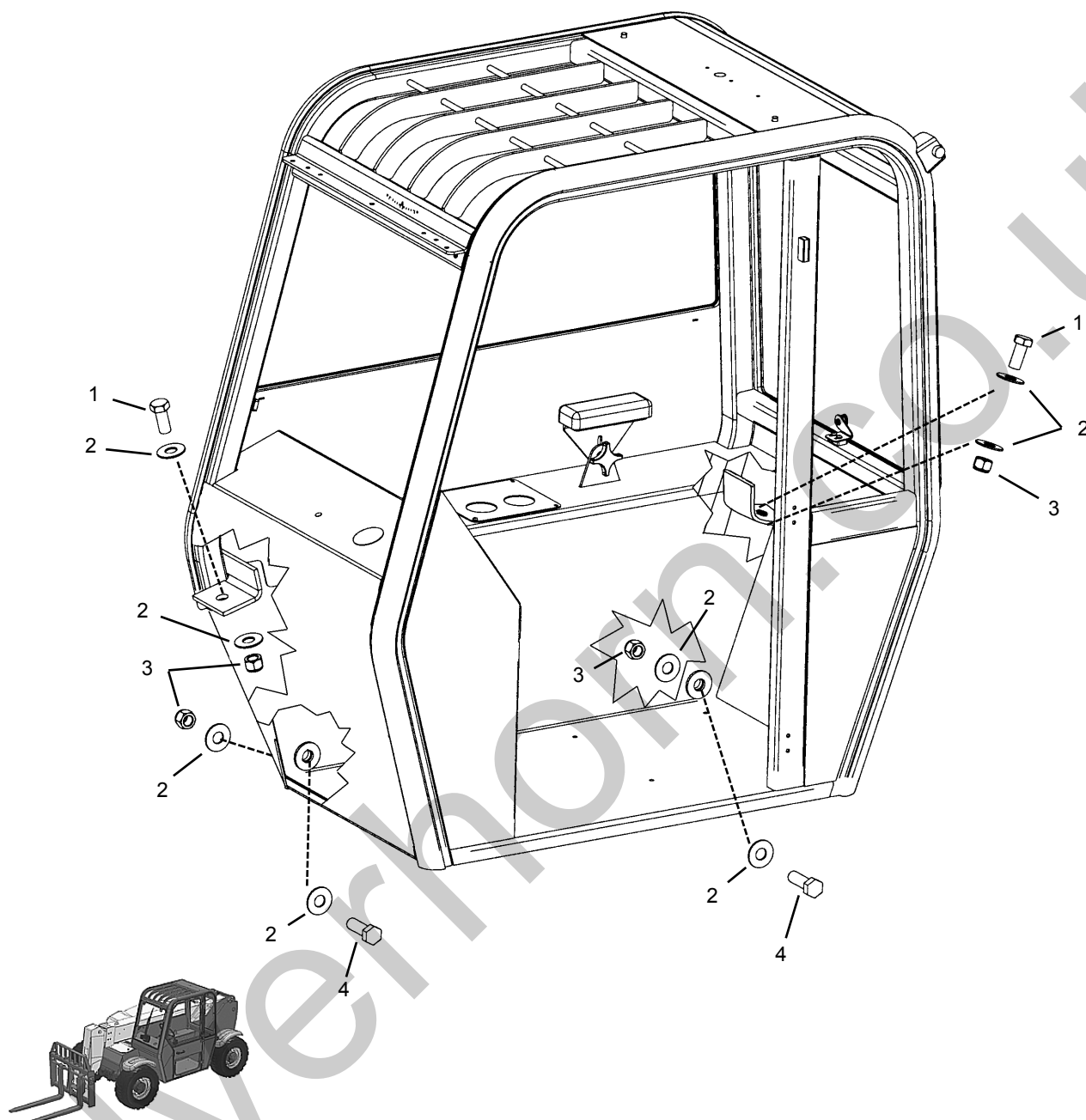
**Brake and Throttle
Pedal Assembly**



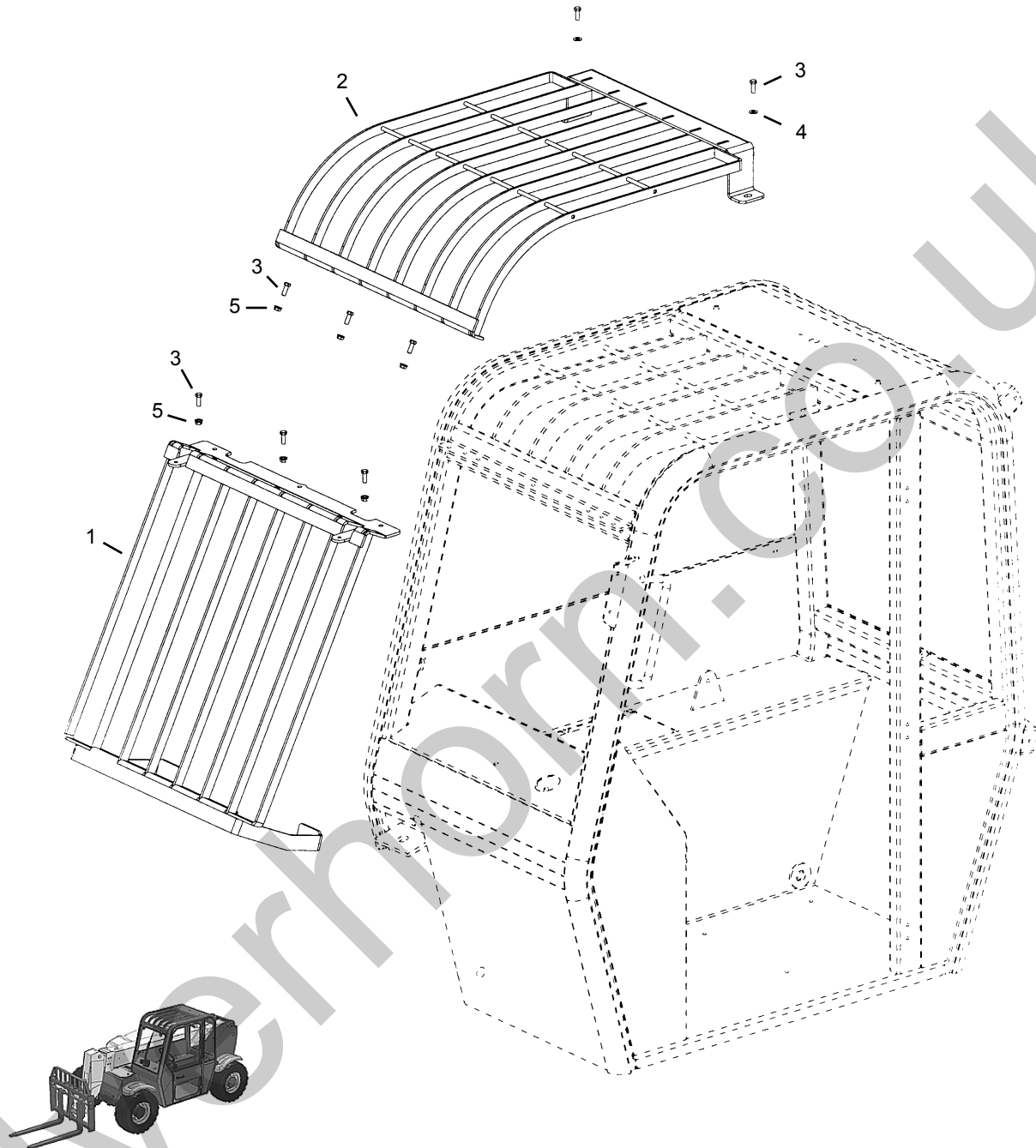
Cab

Cab Mounts

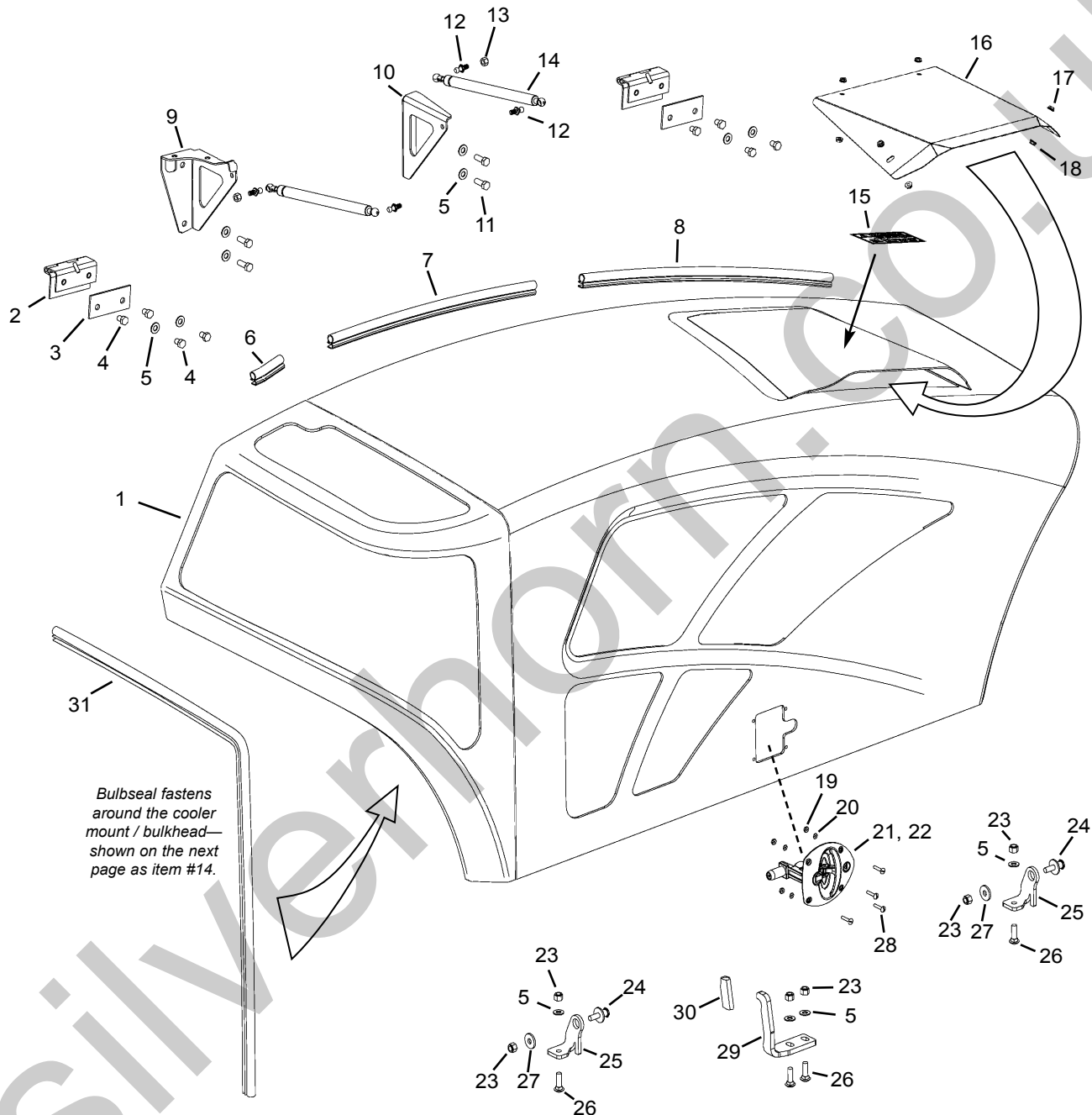
MT 5519 Telescopic Handler



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200437	1"-8X2-1/4" GR8 BOLT	2	03	809198	1"-8 CLASS C LOCK NUT	4
02	51200095	1" SAE FLAT WASHER.....	8	04	809313	1"-8X3" GR8 BOLT	4



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200730	FRONT WINDOW GUARD	1	04	813591	3/8" FLAT WASHER	AR
02	51200731	TOP WINDOW GUARD	1	05	813849	3/8" WHIZ NUT	AR
03	813574	3/8"X1" BOLT	AR				
				-- ITEMS NOT SHOWN --			
				--	813591	3/8" FLAT WASHER	AR



MT 5519 Telescopic Handler

Chassis

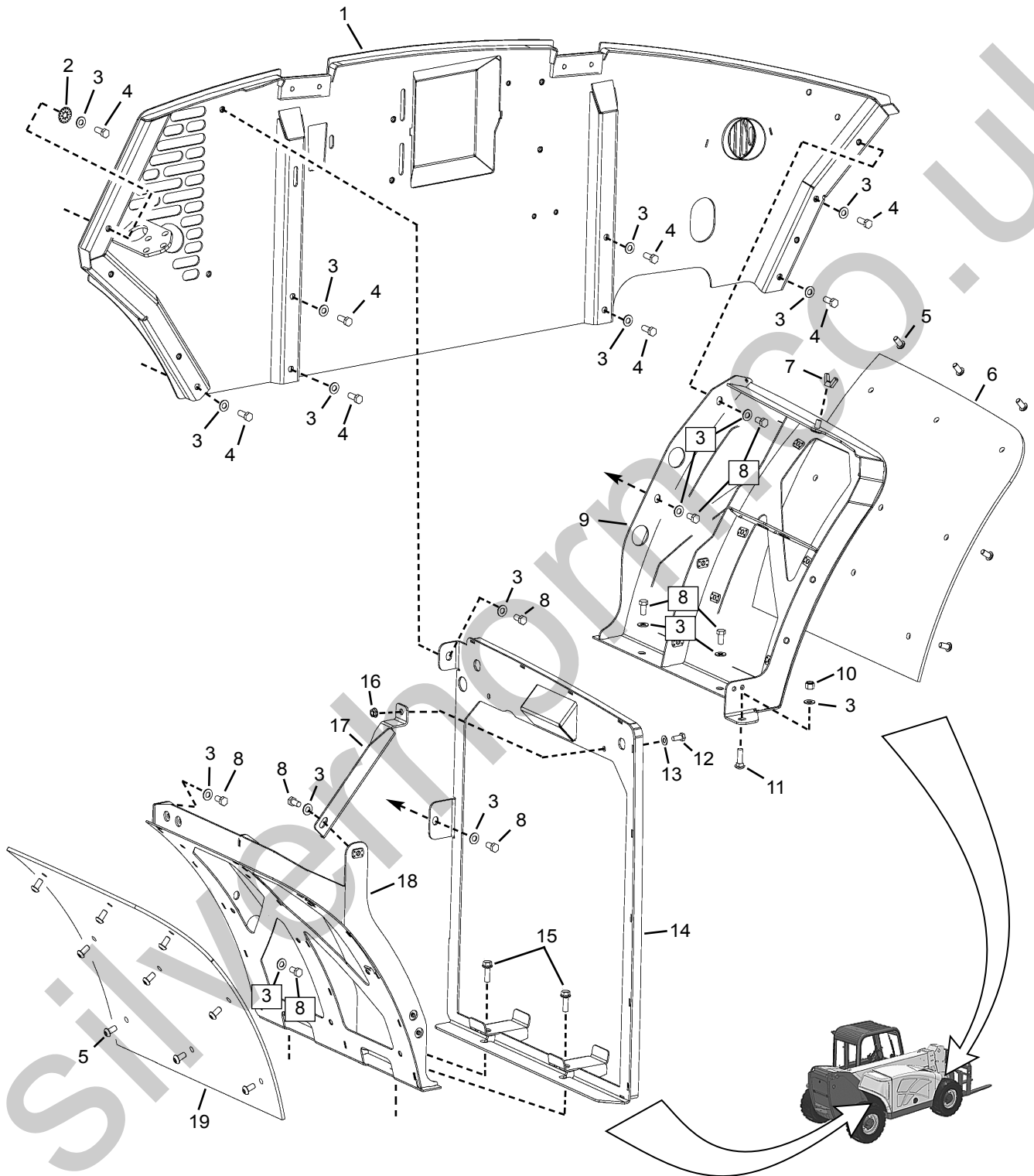
Engine Compartment - Hoods

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380327	HOOD	1	17	808545	1/4" FLANGE LOCK NUT	4
02	51200732	HINGE	2	18	51200737	HN FL CLOC 1/4" CZY	4
03	51200733	HINGE BACKER	2	19	813369	#10-24 NUT	4
04	51200734	3/8"X1/2" BOLT	8	20	814202	LW #10 RZY	4
05	813657	FW 3/8 ANZY	AR	21	51200738	LATCH, T-HANDLE	1
06	50380217	BULB SEAL 3.3"	1	22	809106	KEY ONLY (CH751) (not shown) . PR	
07	50380218	BULB SEAL 20.4"	1	23	813656	HLN INST 3/8 C5ZY	4
08	50380219	BULB SEAL 25.8"	1	24	51200739	STRIKER	2
09	50380135	BRACKET	1	25	50380058	STRIKER MOUNT	2
10	51200735	BRACKET, GAS SPRING	1	26	51200740	CB 3/8" x 3/4" C5ZY	4
11	813677	CS 3/8"X3/4"	2	27	51200741	FW 13/32 ZY	2
12	813651	BALL STUD (3/8" thread)	2	28	51200742	#10-24X1" SCREW	4
13	51200736	LN INST 5/16"	AR	29	51200743	BRACKET, HOOD LATCH	1
14	50380359	GAS SPRING	2	30	51200744	SEAL, EDGE 3/8" x 1-1/4"	1
15	809291	DECAL, HOT SURFACE	1	31	51200745	BULB SEAL 48"	1
16	50380360	EXHAUST SHIELD	1				

Chassis

MT 5519 Telescopic Handler

Engine Compartment - Front, Rear, and Backwall



MT 5519 Telescopic Handler

Chassis

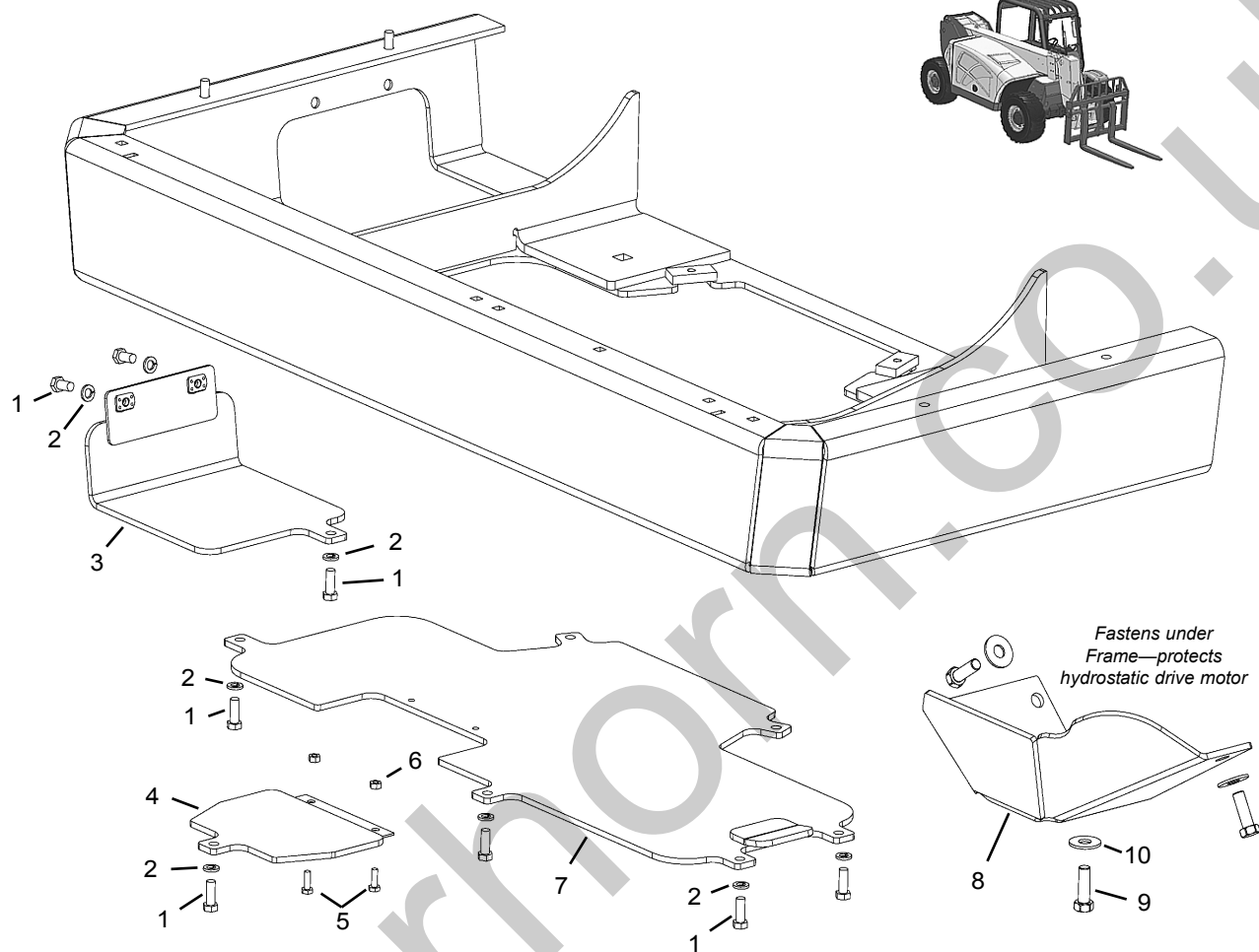
Engine Compartment - Front, Rear, and Backwall

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200746	BACKWALL, ENGINE COMPART. .	1	10	813656	HLN INST 3/8 CZY	1
02	51200747	LW INTERNAL 3/8 AZY (used to insure proper grounding)	1	11	51200740	CB 3/8" x 1-1/4" C5ZY	1
03	813657	FW 3/8 ANZY	AR	12	808498	CS 5/16" x 3/4" C5ZY	1
04	813574	CS 3/8" x 1" C5ZY	AR	13	51200750	FW 5/16 HT ZY	1
05	808607	SHCS 3/8"x 3/4"	18	14	51200751	COOLER MOUNT/BULKHEAD	1
06	51200748	WHEEL WELL GUARD, FRONT. . .	1	15	51200565	CS FL LOCK 3/8"x 1" C5ZY	2
07	814679	WING NUT 3/8 ACZY (used to secure air cleaner assy.)	1	16	808555	FLN 5/16".	1
08	813677	CS 3/8" x 3/4" C5ZY	AR	17	51200752	BRACE, RADIATOR/COOLER	1
09	51200749	WHEEL WELL BRACKET, FRONT .	1	18	51200753	WHEEL WELL BRACKET, REAR . .	1
				19	51200754	WHEEL WELL GUARD, REAR	1

Chassis

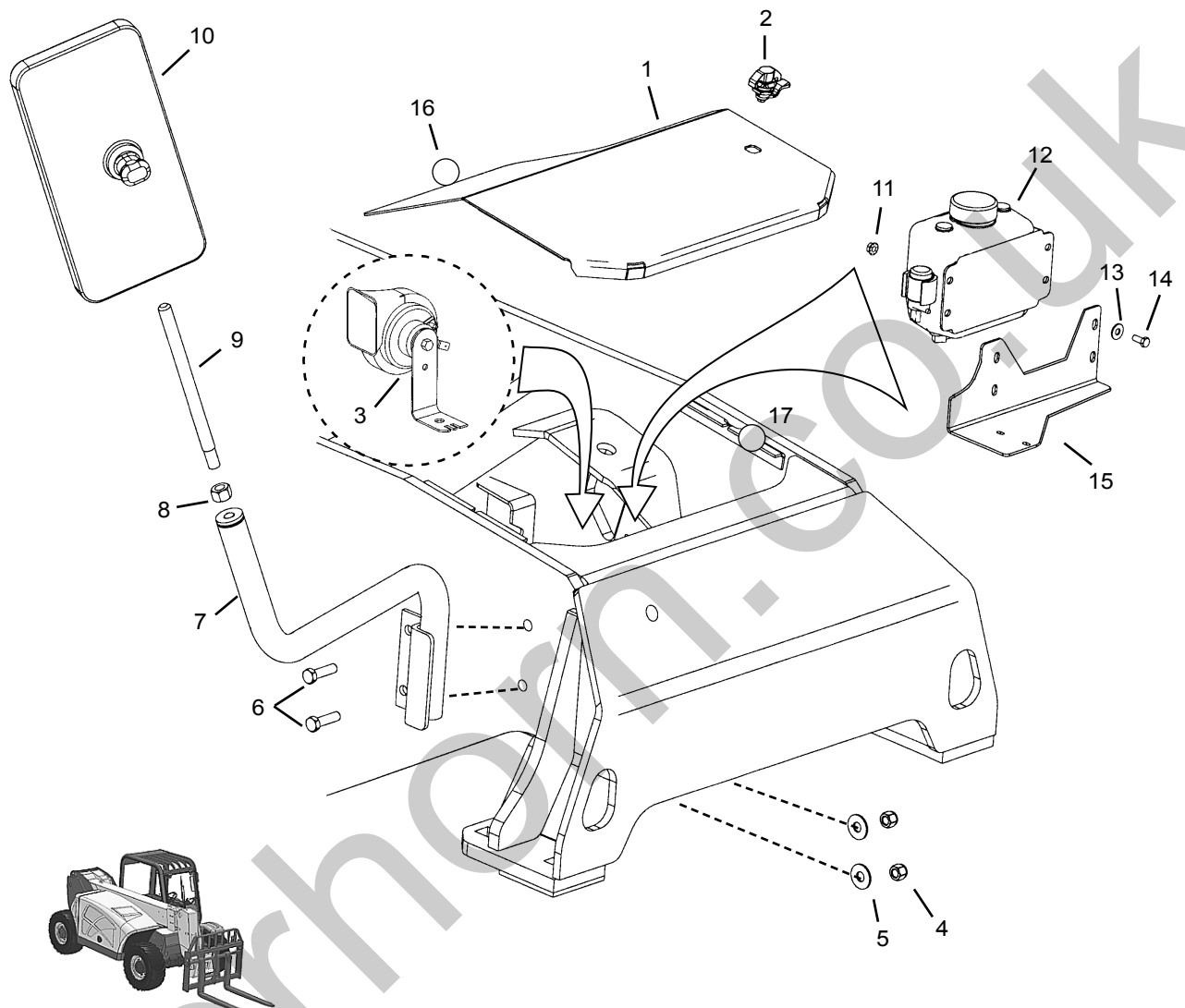
Engine Compartment - Belly Pan

MT 5519 Telescopic Handler

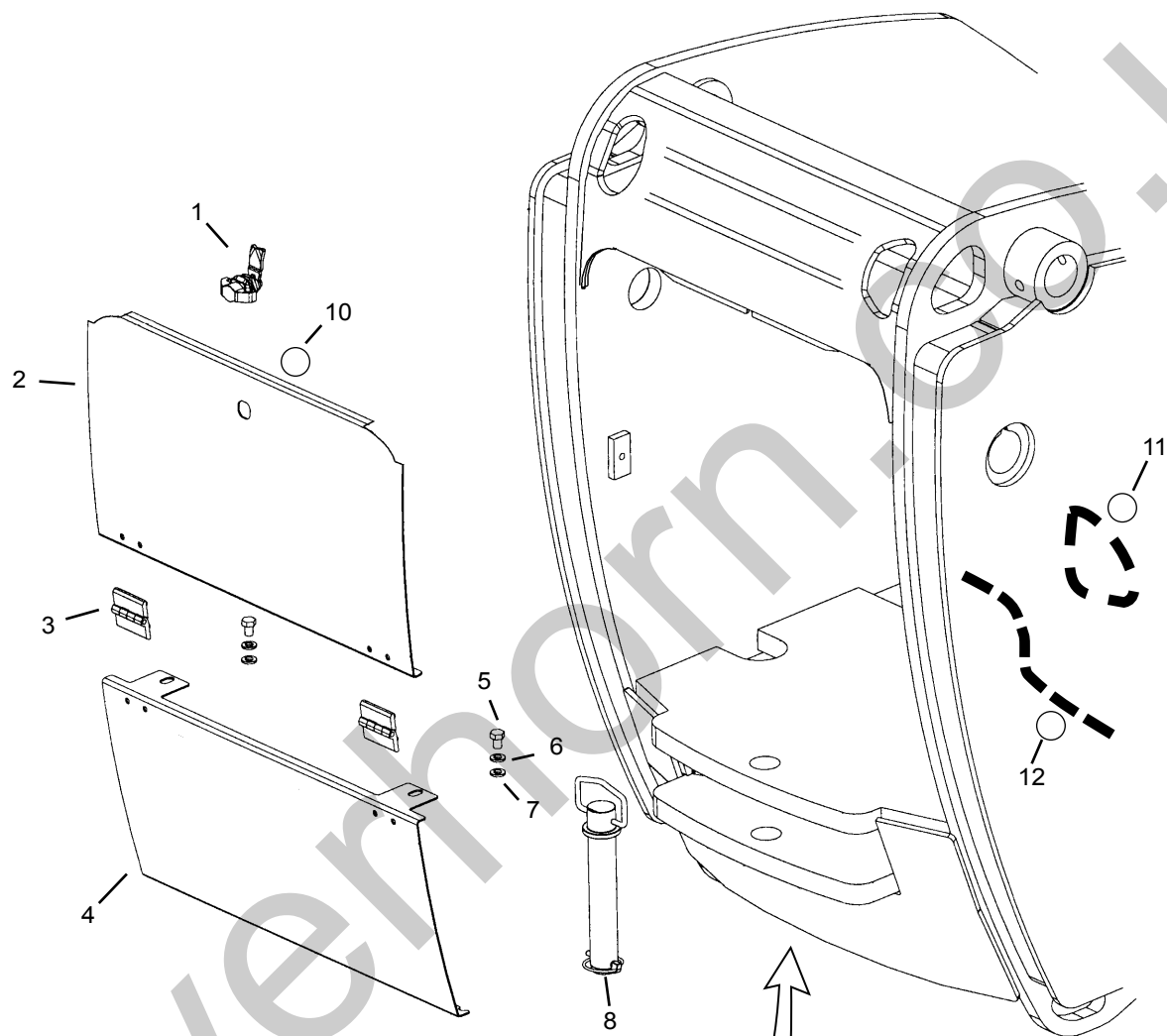


Ref. No.	Part No.	Description	Qty. Req.
01	813574	CS 3/8"X1"	AR
02	813591	FW 3/8"	AR
03	51200755	ACCESS, COMPRESSOR	1
04	51200756	OIL DRAIN COVER	1
05	813570	1/4"X3/4" BOLT	2
06	808545	1/4" FLANGE LOCK NUT	2

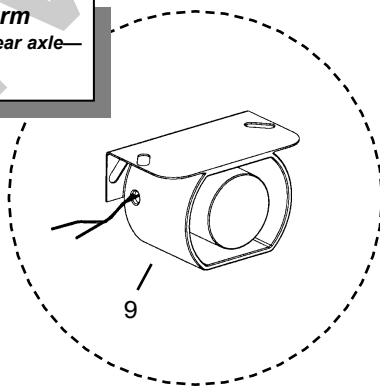
Ref. No.	Part No.	Description	Qty. Req.
07	51200757	BELLY PAN, ENGINE	1
08	51200758	BELLY PAN, HYDRO. DRIVE	1
09	808629	CS 1/2"-13 x 1-1/2"	3
10	813337	FW 1/2"	3



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200759	FRONT COVER, FRAME	1	12a	808089	WASHER BOTTLE, w/PUMPS	1
02	51200760	LATCH COVER	1	13a	813610	5/16" FLAT WASHER	AR
03	808437	HORN, 12VDC	1	14a	808498	5/16"X3/4" BOLT	AR
	51200734	3/8"X1/2" BOLT	1	15a	51200762	MOUNT, WASHER BOTTLE	1
	813591	3/8" FLAT WASHER	1	16	51200763	TRIM/EDGE 10"	1
04	808665	1/2" NYLON INSERT NUT	2	17	51200764	TRIM/EDGE 2"	4
05	808595	1/2" FLAT WASHER	AR			-- ITEMS NOT SHOWN --	
06	808612	1/2"X1-3/4" BOLT	2	--	808321	HARNESS, WASHER BOTTLE . . .	1
07	51200761	MIRROR MOUNT, RH	1	--	808347	TUBING, WASHER (15-1/2 FT.) . .	1
08	809288	5/8" NUT	1				
09	813360	BAR, MIRROR END	1				
10	809880	MIRROR	1				
11	808555	5/16" WHIZ NUT	AR	a		Used on units with a cab enclosure option.	



Back-up Alarm
(Located above the rear axle—
left side.)

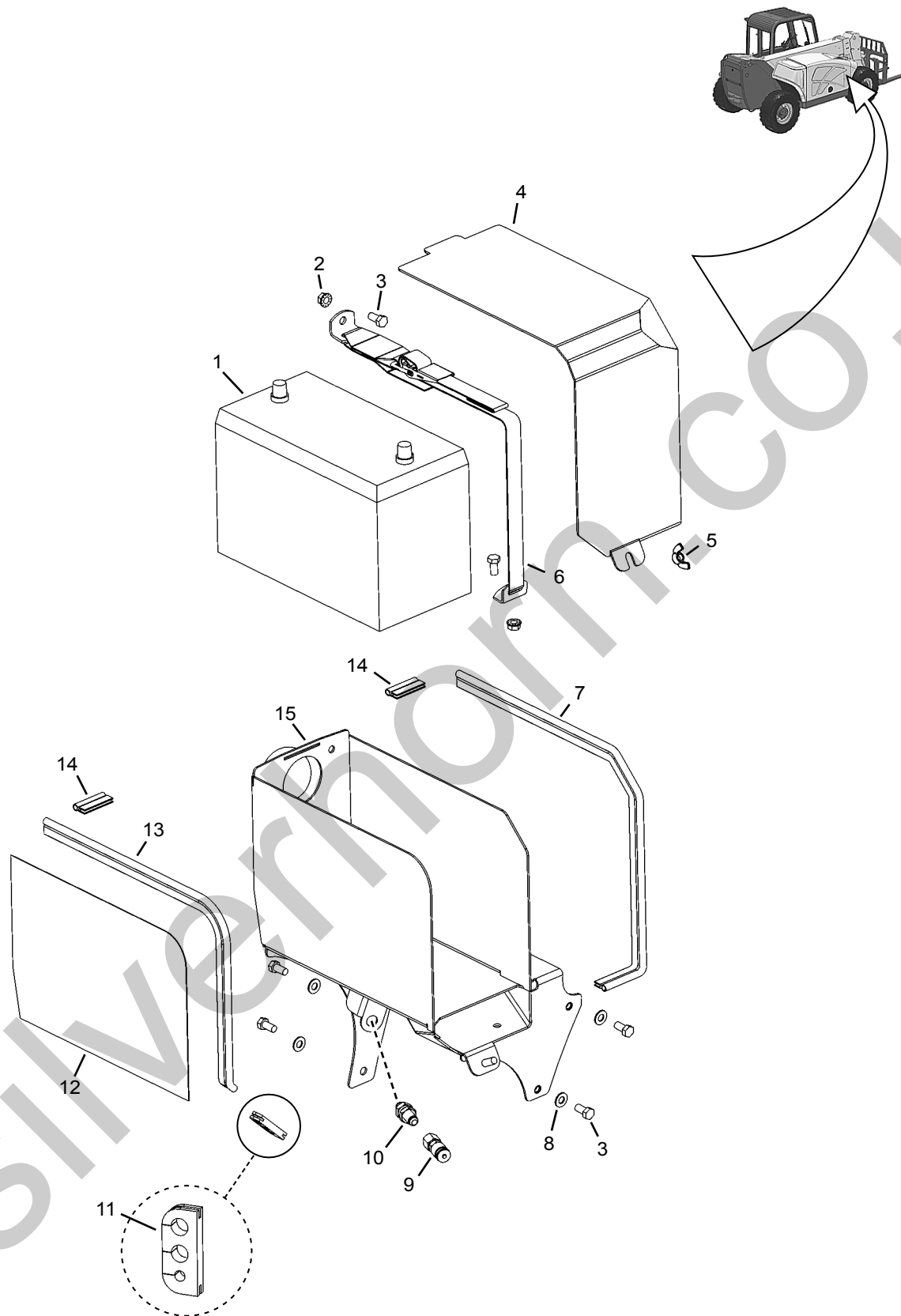


MT 5519 Telescopic Handler

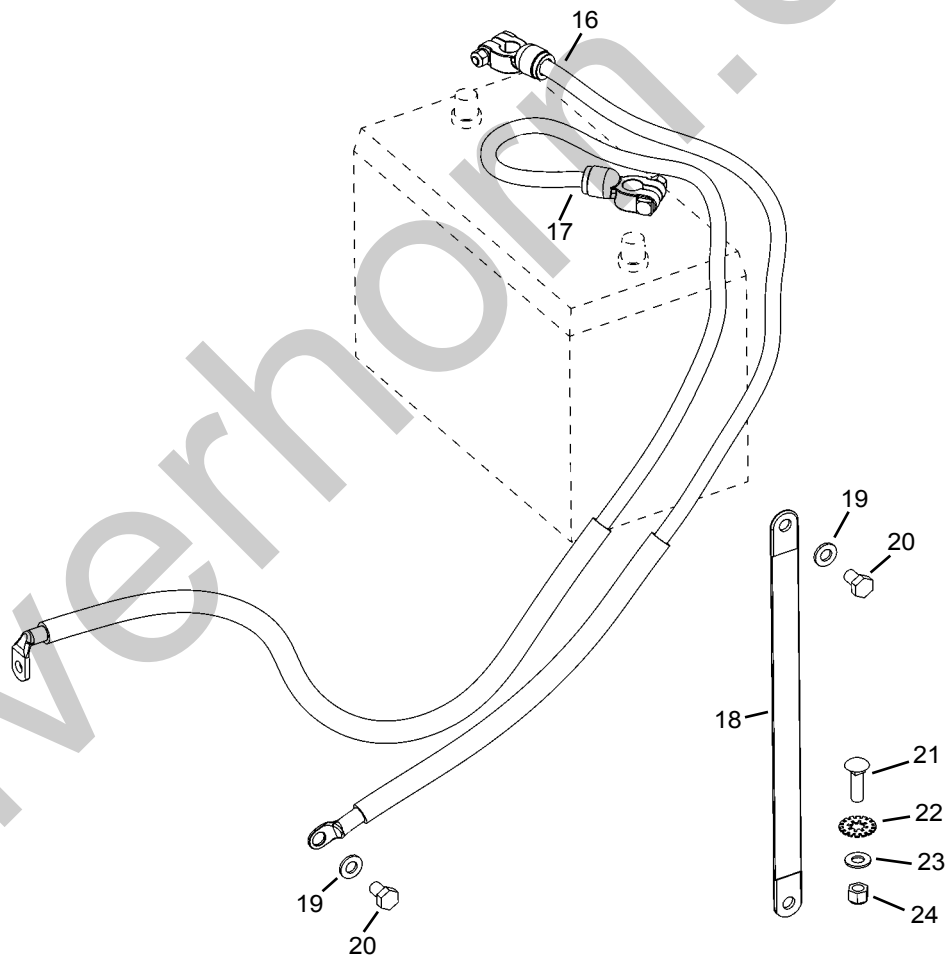
Chassis

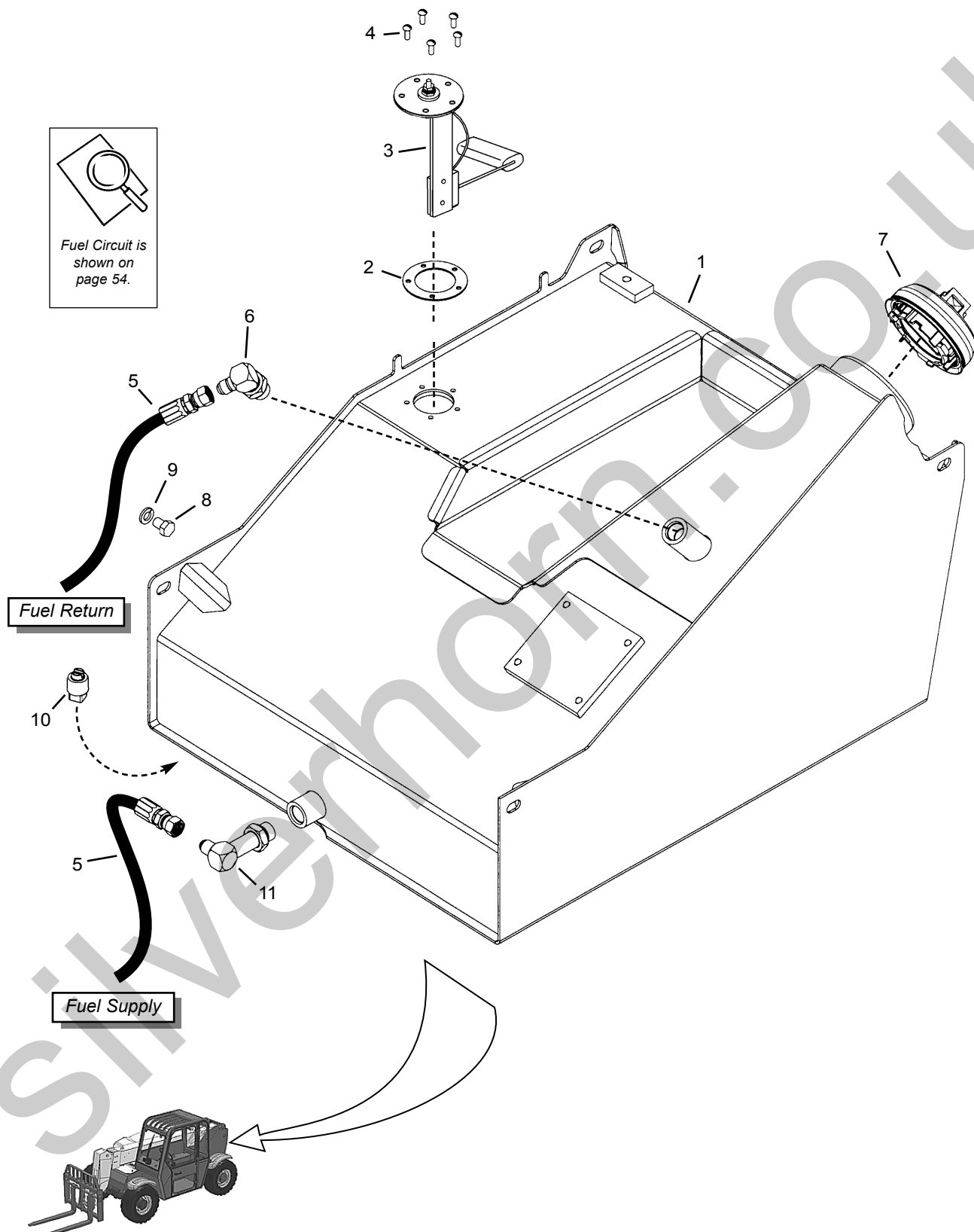
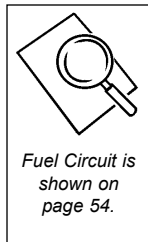
Covers - Rear and Back-up Alarm

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200765	FUEL ACCESS LATCH	1	09	808897	BACK-UP ALARM	1
02	51200766	FUEL TANK ACCESS COVER	1		51200773	5/16"X5/8" BOLT	AR
03	51200767	HINGE	2		813610	5/16" FLAT WASHER	AR
	51200768	6 MM NYLON INSERT NUT	8			(Backup alarm is located on chassis above the rear axle—left side.)	
	51200769	6 MM FLAT WASHER	8				
04	51200770	FUEL TANK COVER	1	10	51200774	TRIM/EDGE 0.13"X12"	1
05	51200771	3/8"X1/2" BOLT	2			-- HIDDEN FROM VIEW --	
06	813849	3/8" LOCK WASHER	2			(Attaches to frame to protect hydraulic hoses)	
07	813591	3/8" FLAT WASHER	2	11	51200775	TRIM 3/4"X18.5"	1
08	51200772	TOW PIN	1	12	51200776	TRIM 3/4"X14.5"	1



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	NSS	BATTERY, GR 31 BCI (950 CCA) ..	1	13	50380205	BULB SEAL	1
02	808471	HN FL SLOC 3/8 CZY	2	14	50380207	BULB SEAL	2
03	813677	CS 3/8 x 3/4 C5ZY	6	15	51200780	BATTERY BOX/AIR INTAKE	1
04	50380053	BATTERY COVER.	1	16	51200781	BATTERY CABLE, NEG. 39"	1
05	51200777	NUT, 3/8-16 WING ZINC PH.	1	17	51200782	BATTERY CABLE, POS. 52"	1
06	50380181	STRAP, BATTERY HOLD-DOWN ..	1	18	808707	STRAP, GRND 4GA 14"	1
07	50380206	BULB SEAL	1	19	51200679	FW M10 ZY DIN125	2
08	813657	FW 3/8 ANZY	4	20	51200783	CS M10-1.5x16 C8.8 ZY	2
09	51200778	TEST PORT COUPLER	1	21	51200740	CB 3/8X1-1/4 C5ZY	1
10	51200779	ADAP., ST BLKHD MJ06-MJ06 ..	1	22	51200747	LW INTERNAL 3/8" AZY	1
11	50380179	GROMMET, CABLE SEAL	1	23	813657	FW 3/8 ANZY	1
12	50380197	HEAT SHIELD (self-adhesive) ..	1	24	813656	HLN INST 3/8 CZY	1





MT 5519 Telescopic Handler

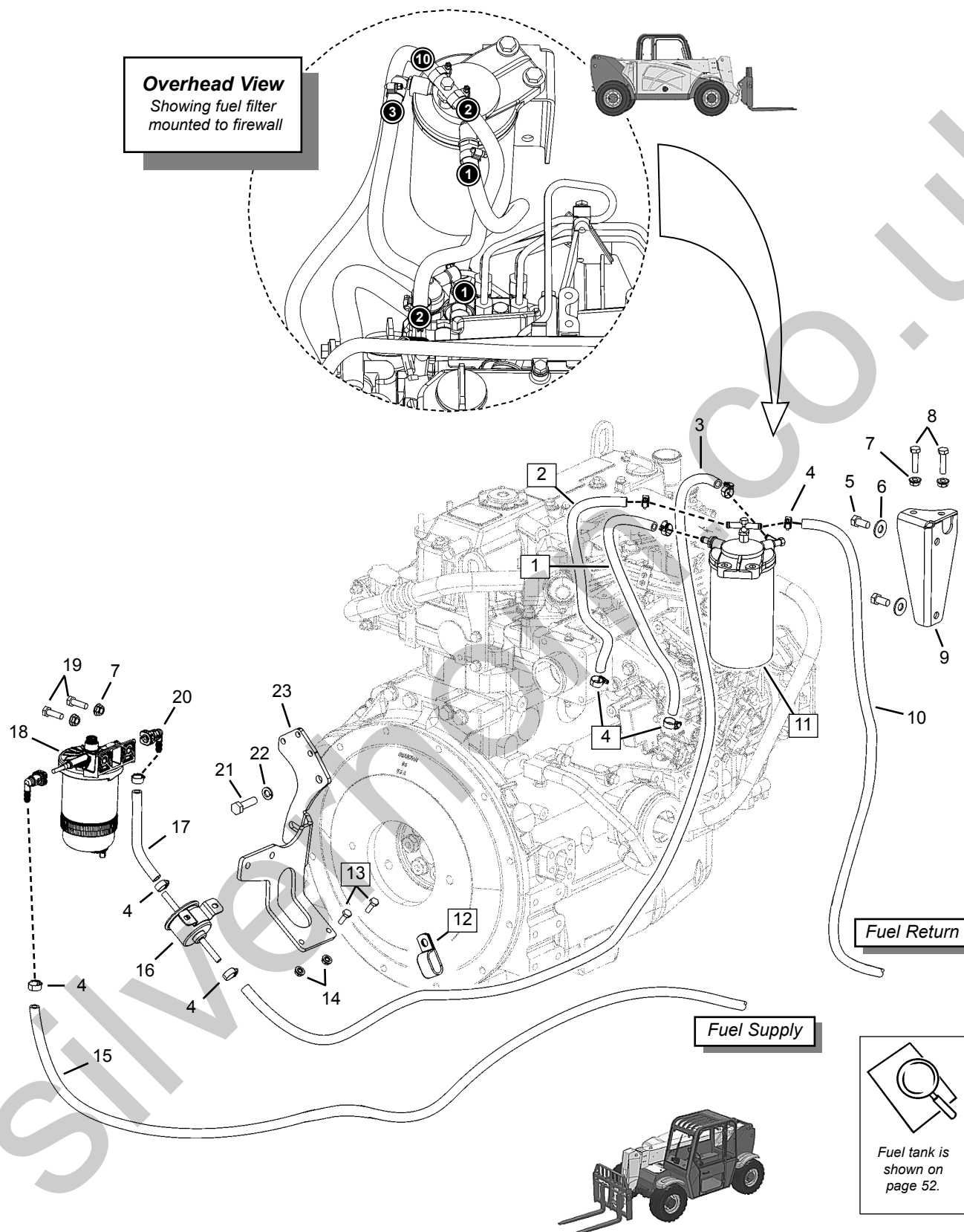
Chassis

Fuel Tank

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200784	FUEL TANK WELDMENT	1	06	814517	ADAP., -8ORM -6JICM 90°	1
02	808439	GASKET, FUEL SENDER	1	07	51200114	FUEL CAP	1
03 ^a	51200785	SENDER, FUEL LEVEL	1	08	51200734	3/8"x1/2" BOLT	4
04	51200101	#10-32X1/2" RD SCREW	AR	09	813849	3/8" LOCK WASHER	4
05	51200786	HOSE, FUEL 5/16"x86"	1	10	813678	1/2"-14 PLUG, MAGNETIC BI	1
		(Fuel supply and return; refer to next page for location of fuel lines on the engine.)		11	51200788	ADAP., -8ORM -6JICM LNG 90°	1
				a	Includes gasket item #2		

Engine Fuel Circuit

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

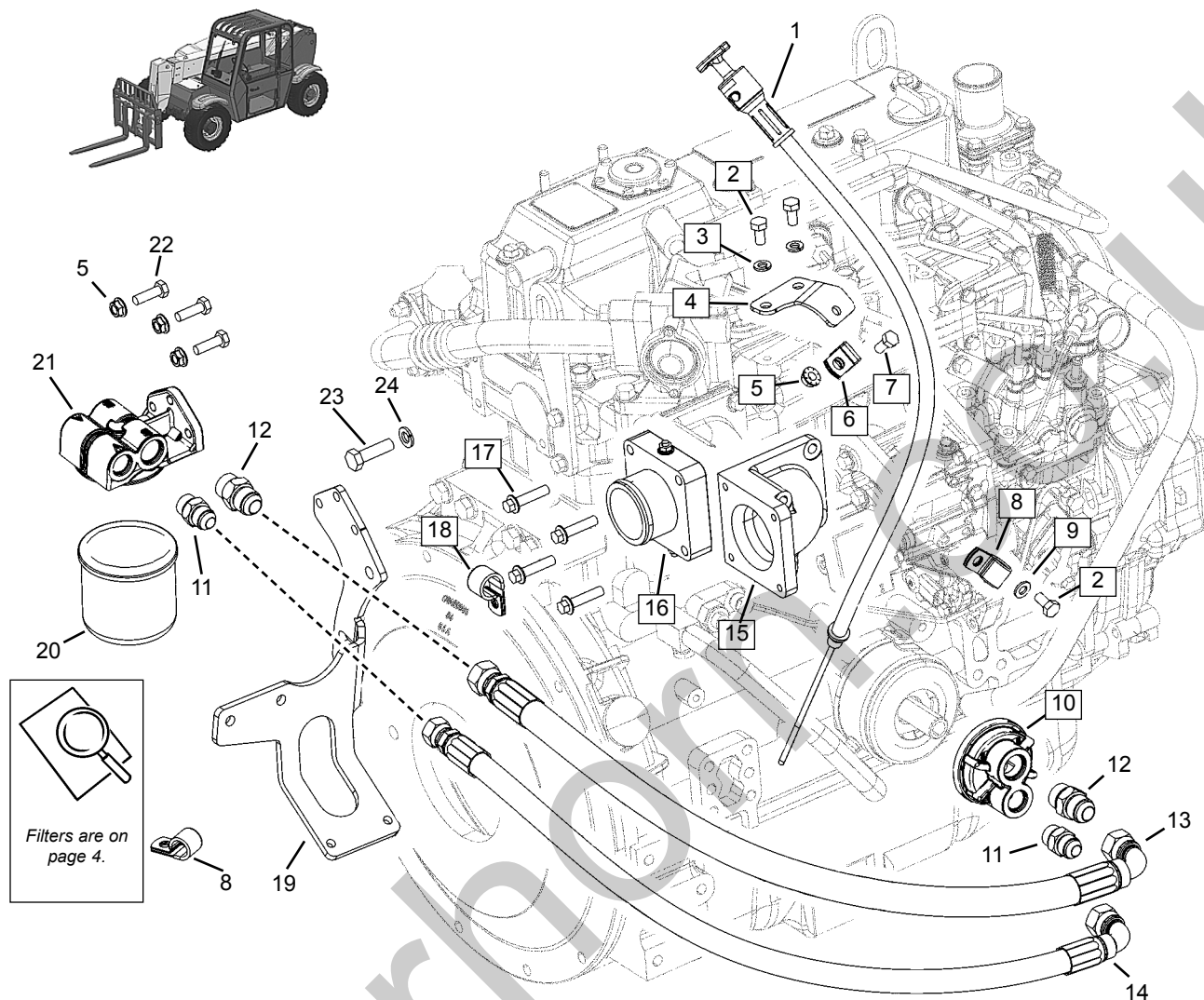
Engine Fuel Circuit

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200789	HOSE, FUEL 5/16"x16"	1	15 ^a	51200786	HOSE, FUEL 5/16"x86" (supply) . . .	1
02	51200789	HOSE, FUEL 5/16"x16"	1	16	51200793	FUEL PUMP, ELECTRIC	1
03	51200790	HOSE, FUEL 5/16"x60"	1	17	51200794	HOSE, FUEL 5/16"x5-1/2"	1
04	51200567	CLAMP, HOSE #05 M	AR	18 ^b	51200795	FUEL/WATER SEP. ASY.	1
05	813677	CS 3/8"x3/4" C5ZY	2	19	813598	CS 5/16"x1" C5ZY	2
06	813591	FW 3/8" AWZY	2	20	50380271	FITTING, T190	2
07	808555	FLN 5/16"-18	4	21	51200796	CS M10-1.5x35 C8.8 ZY D931	2
08	814344	CS 5/16"x1-1/4" C5ZY	2	22	51200797	CS M10 ZY DIN127	2
09	50380136	FUEL FILTER MOUNT BRACKET . 1 (bolts to firewall—holds item #11)		23	51200798	BRACKET, FILTER MOUNT	1
10 ^a	51200786	HOSE, FUEL 5/16"x86" (return) . . .	1	a	Refer to previous page for location of fuel supply and return hoses on the fuel tank.		
11		FUEL FILTER ASSEMBLY		b.	Fuel/Water Separator Assembly includes the fuel mount, 90° fittings (item 20), fuel/water separator filter (P/N 51200020) , fuel/water separator bowl (P/N 809827), and water drain (P/N 50380272).		
	51200791	FUEL FILTER MOUNT (head)	1				
	51200019	FUEL FILTER (spin-on element) . . .	1				
12	51200792	CLAMP, VINYL 5/8" DOUBLE	1				
13	813570	CS 1/4"x3/4" C5ZY	2				
14	808545	FLN 1/4"-20 ZP	2				

Engine

MT 5519 Telescopic Handler

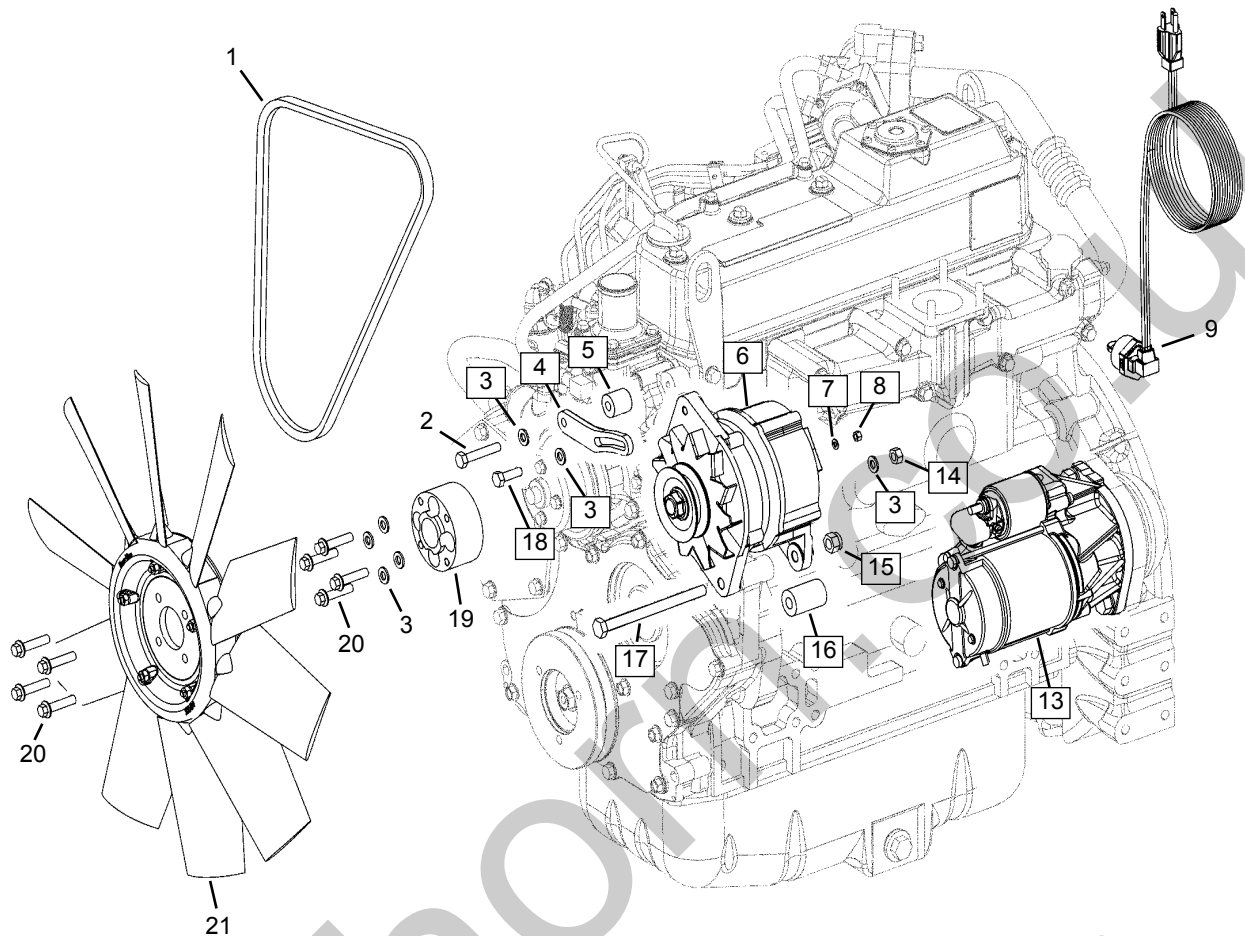
Oil Filter, Air Heater, and Dipstick



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200799	DIPSTICK ASSEMBLY	1	16 ^b	50220157	AIR HEATER	1
02	51200800	CS M8-1.25x16 C8.8 ZY DIN931. AR			51200808	GASKET (<i>not shown—non-asb.</i>) . . .	1
03	51200801	LW M8 ZY DIN127.	2	17	51200809	CS FL M8-1.25x35 C8.8 ZY	4
04	51200802	BRACKET, DIPSTICK	1	18 ^a	51200810	CLAMP, VINYL 3/4"x7/16"	1
05	808555	FLN 5/16"-18	4	19	51200798	BRACKET, FILTER MOUNT	1
06	51200803	CLAMP, VINYL 1/2"x7/16"	1	20	51200116	FILTER, ENGINE OIL	1
07	814206	CS 5/16"x5/8" C5ZY	1	21	51200812	FILTER MOUNT (<i>head</i>)	1
08 ^a	51200804	CLAMP, VINYL 5/8"x7/16"	2	22	813598	CS 5/16"x1" C5ZY	3
09	51200805	FW M8 ZY DIN125	AR	23	51200796	CS M10-1.5x35 C8.8	2
10	51200806	OIL FILTER ADAPTER	1	24	51200797	LW M10 ZY DIN127	2
11	813708	ST MJ08-MORB08	2				
12	814291	ST MJ10-MORB10	2				
13	50380247	HOSE, REMOTE OIL -10	1				
14	50380248	HOSE, REMOTE OIL -8	1				
15 ^b	51200807	AIR HEATER MANIFOLD 90°	1				
	51200808	GASKET (<i>not shown—non-asb.</i>) . . .	1				

a Used to retain engine wire harness.

b Two non-asbestos gasket (51200808) are used: one between item 15 (air heater manifold) and the engine block, and the other between item 15 (air heater manifold) and item 16 (air heater).



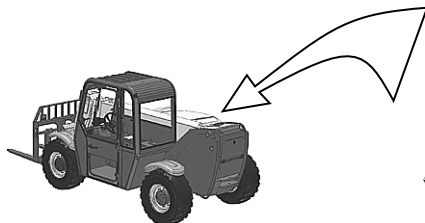
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200613	V-BELT 42"	1	15	51200821	LN INST M10-1.5 C8 ZY	1
02	51200813	CS M8-1.25x45 C8.8 DIN931	1	16	51200822	SPACER, ALTERNATOR	1
03	51200805	FW M8 ZY DIN125	7	17	51200823	CS M10-1.5x130 C8.8 ZY	1
04	51200814	ADJUSTER, ALTERNATOR	1	18	51200824	CS M8-1.25x25 C8.8 ZY	1
05	51200815	SPACER, ALTERNATOR	1	19	51200825	SPACER, FAN	1
06	51200816	ALTERNATOR, 95AMP	1	20	51200809	CS FL M8-1.25x35 C8.8	8
07	51200817	FW M5 ZY DIN125	1	21	50380056	FAN, SUCKER 19" 3H	1
08	51200818	HN M5-0.8 C8 ZY DIN934	1				
09	51200819	BLOCK HEATER, ENGINE (option)	1				
13	51200820	STARTER, 12V 3KW	1				
14	51200552	HN M8-1.25 C8 ZY DIN934	1				

NOTE: Refer to engine parts manual 917304 for more information.

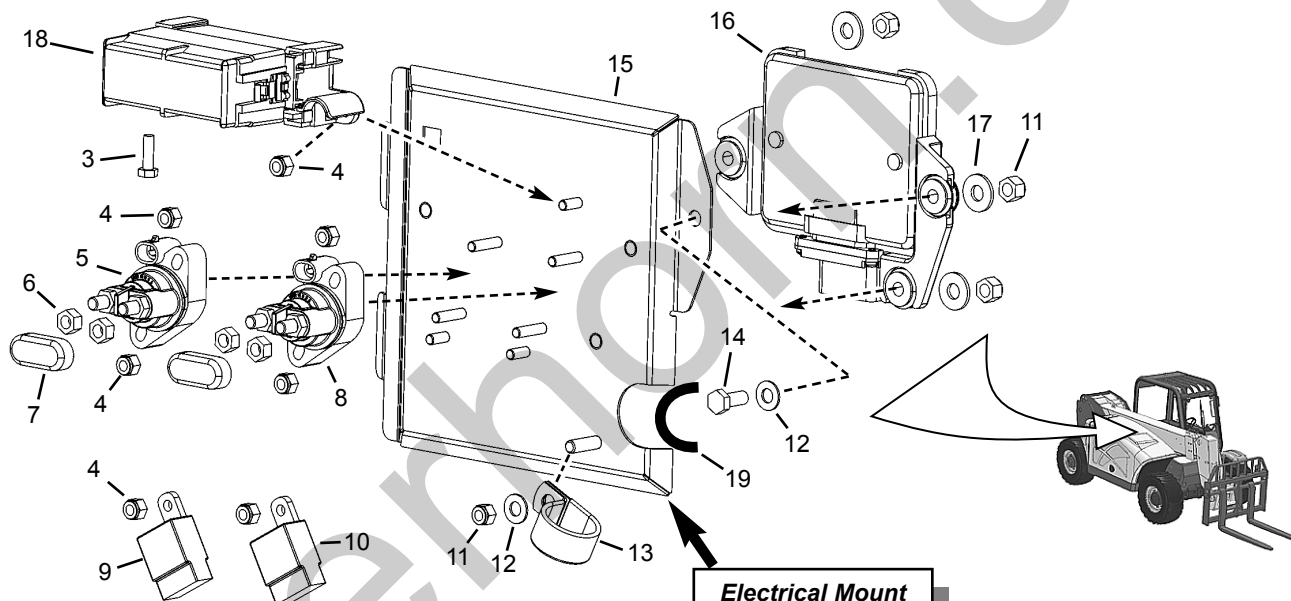
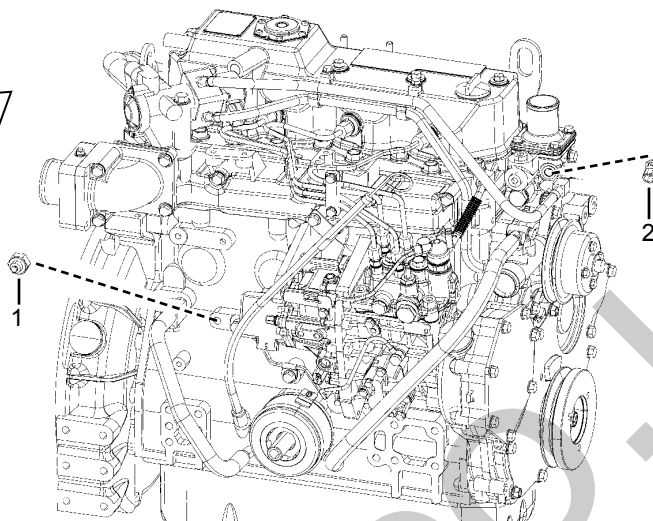
Engine

MT 5519 Telescopic Handler

Electrical—Switches, Sensors, and Relays



NOTE: Refer to engine parts manual 917304 for more information regarding engine components.



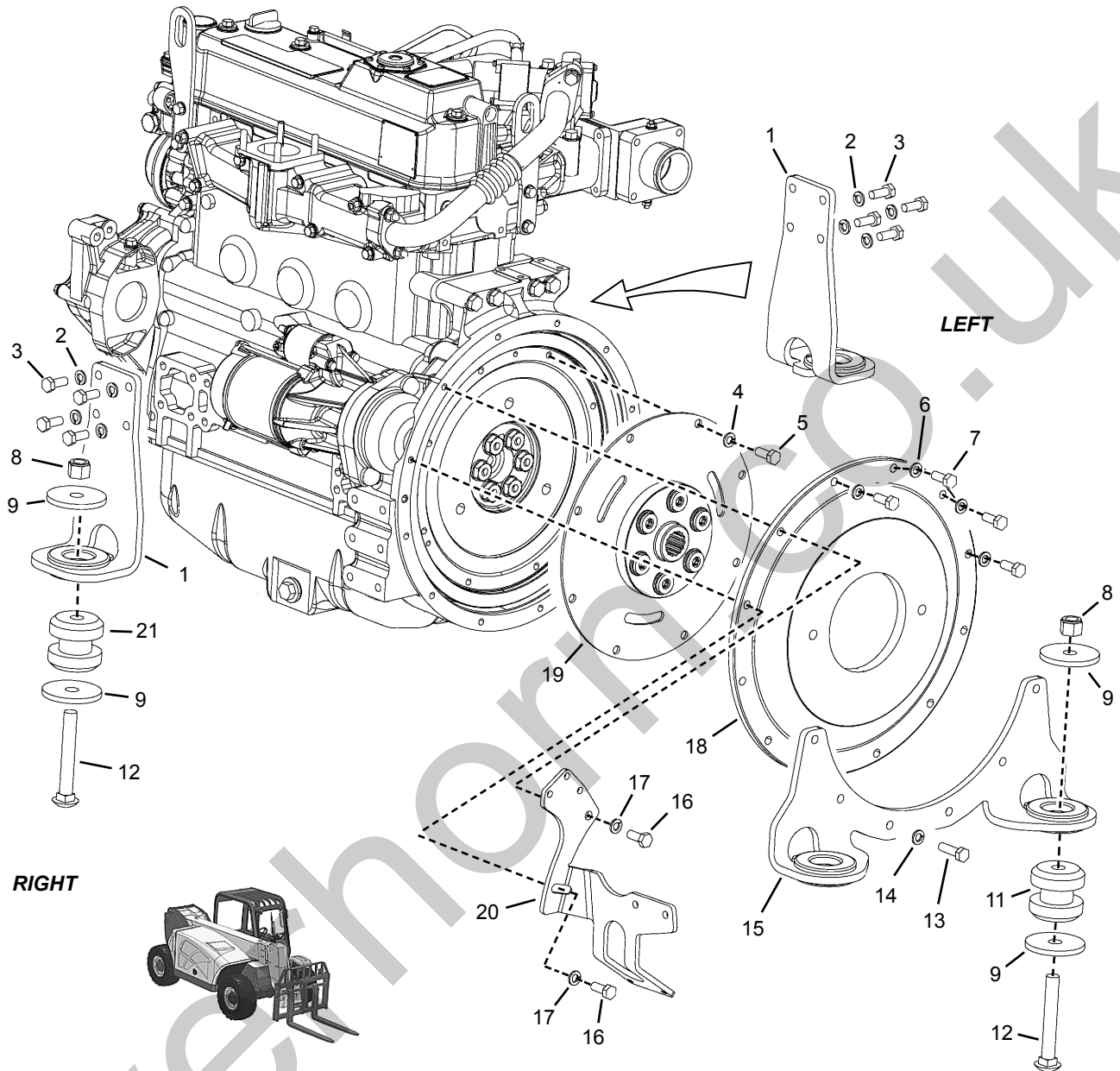
Electrical Mount
(Fastens to firewall—inside engine compartment)

Ref. No.	Part No.	Description	Qty. Req.
01	51200826	SENDER, OIL PRESSURE	1
02	51200827	SENDER, WATER TEMP.	1
03	51200828	CS M6-1x20 C8.8	1
04	51200651	HLN INST 1/4 CZY	7
05	51200630	SOLENOID (starter)	1
06	51200632	HN 5/16" C2ZY	4
07	51200631	COVER, ELECTRICAL	2
08	51200630	SOLENOID (air heater)	1
09	51200633	RELAY, 20 AMP (ECU)	1
10	51200633	RELAY, 20 AMP (fuel rack)	1
11	51200736	HLN INST 5/16" CZY	4
12	51200750	FW 5/16 HT ZY	2

Ref. No.	Part No.	Description	Qty. Req.
13	51200829	CLAMP, HOSE 1.25x0.41	1
14	808498	CS 5/16" x 3/4" C5ZY	1
15	51200830	ELECTRICAL MOUNT	1
16 ^a	51200831	ECU	1
17	813610	FW 5/16 AWZY	3
18	51200636	FUSE BOX W/COVER (no fuses)	1
19	51200832	TRIM	1

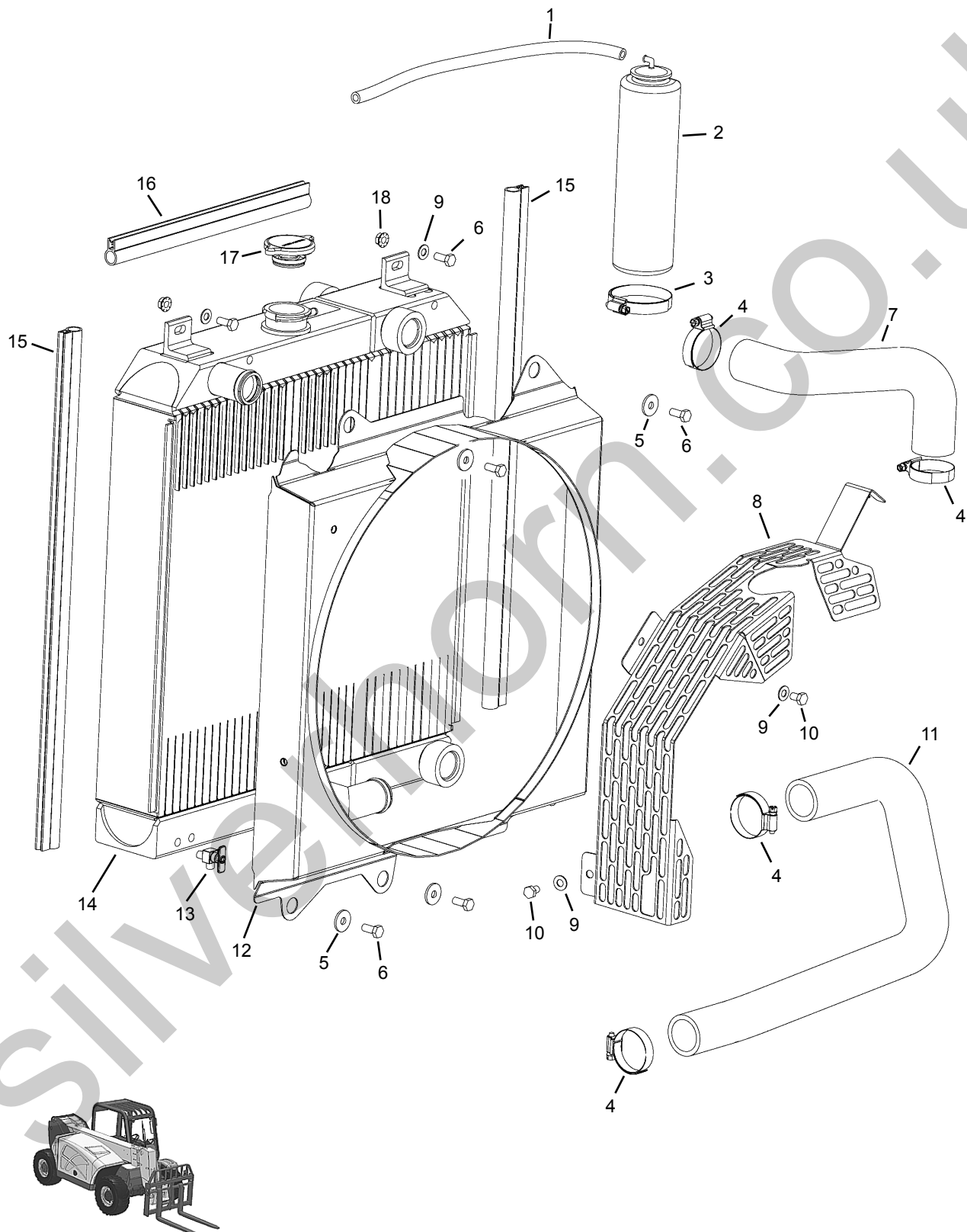
^a Requires software programming from Yanmar dealer.

NOTE: Refer to engine parts manual 917304 for more information.



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200833	MOUNT, ENGINE (REAR)	2	14	51200797	M10 LOCK WASHER	6
02	51200797	M10 LOCK WASHER	8	15	51200838	MOUNT, ENGINE (FRONT)	1
03	51200834	M10-1.5X25 C8.8 BOLT	8	16	51200796	M10-1.5X35 C8.8 BOLT	2
04	51200797	M10 LOCK WASHER	8	17	51200797	M10 LOCK WASHER	2
05	51200834	M10-1.5X25 C8.8 BOLT	8	18	51200839	ADAPTER PLATE	1
06	51200797	M10 LOCK WASHER	4	19	51200840	FLEX PLATE	1
07	51200834	M10-1.5X25 C8.8 BOLT	4	20	51200798	BRACKET, FILTER MOUNT	1
08	51200555	HLN INST 5/8" CZY	4	21	51200841	ISOLATOR (REAR)	2
09	51200835	WASHER, SNUBBING	8				
11	51200836	ISOLATOR (FRONT)	2				
12	51200837	5/8"X4-1/2" CARRIAGE BOLT	4				
13	51200796	M10-1.5X35 C8.8 BOLT	6				

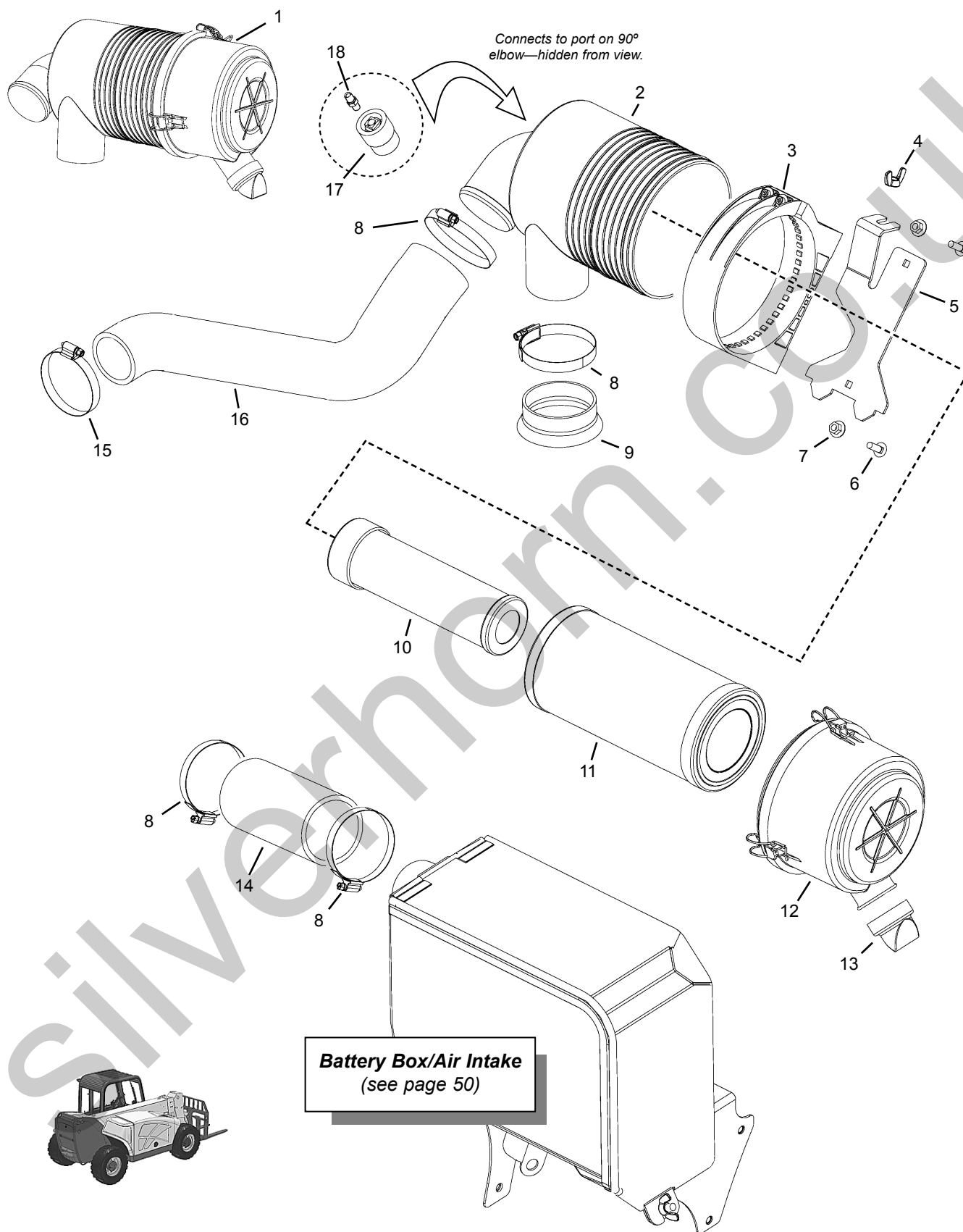
NOTE: Refer to engine parts manual 917304 for more information regarding the flywheel housing and additional engine components.



MT 5519 Telescopic Handler

Engine Radiator

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200789	HOSE, 5/16" x 15-1/2"	1	10	813531	CS 5/16" x 1/2" C5ZY	2
02	51200842	BOTTLE, OVERFLOW	1	11	51200847	HOSE, RADIATOR (<i>lower</i>)	1
03	51200843	CLAMP, HOSE #44	1	12	51200848	FAN SHROUD	1
04	51200568	CLAMP, HOSE #24	4	13	50220154	DRAIN, 1/4" NPT 90°	1
05	51200844	FW 11/32 ZY	4	14	51200849	RADIATOR/COOLER ASSY.	1
06	808498	CS 5/16" x 3/4" C5ZY	6	15	50380215	BULB-SEAL 0.72 x 24-3/4"	2
07	51200845	HOSE, RADIATOR (<i>upper</i>)	1	16	50380216	BULB-SEAL 0.72 x 13-7/16"	1
08	51200846	FAN GUARD	1	17	50220155	RADIATOR CAP, 14 LBS.	1
09	813610	FW 5/16"	4	18	808555	FLANGE LOCK NUT 5/16"-18	2



MT 5519 Telescopic Handler

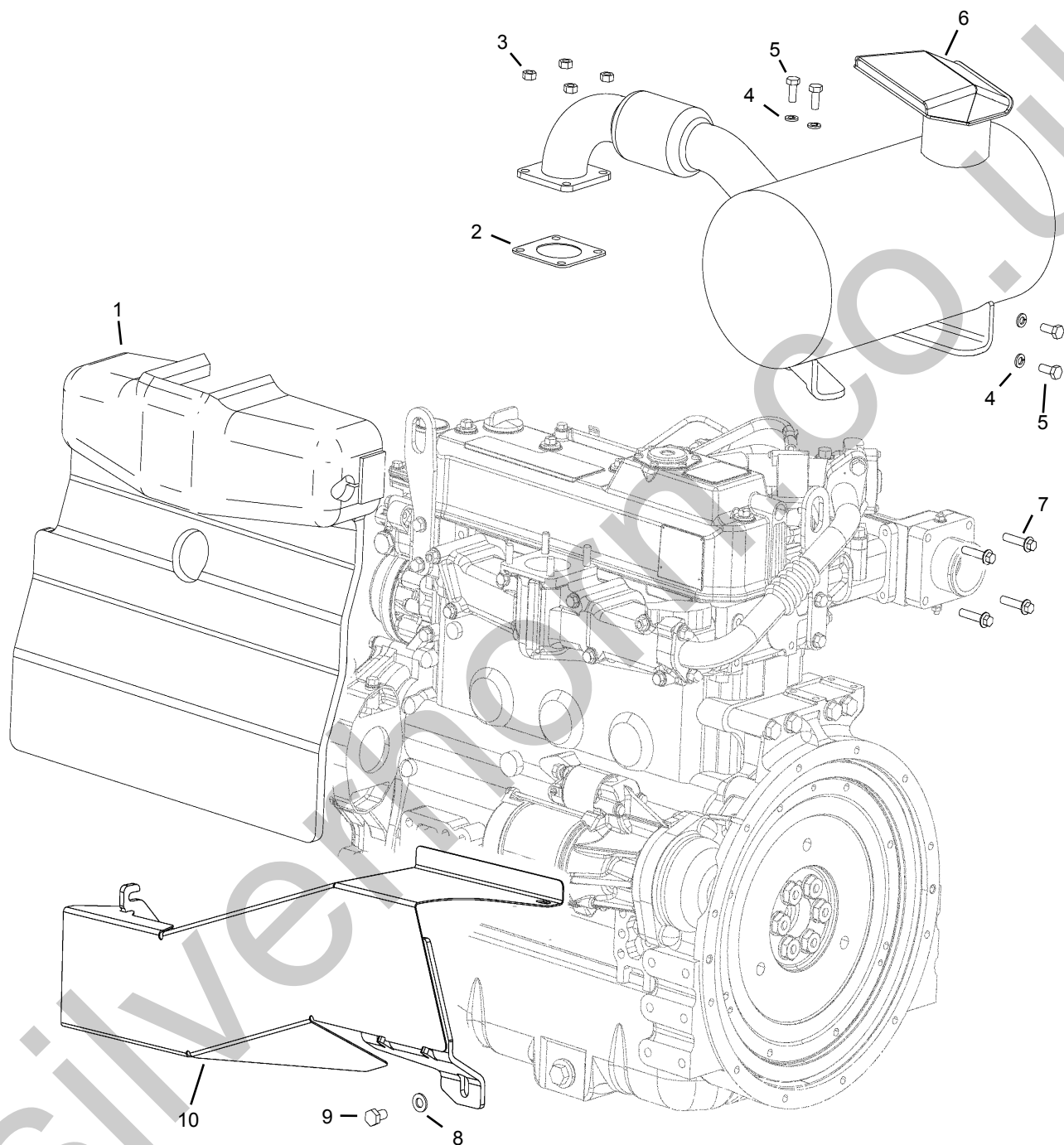
Engine Air Intake and Filter

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200850	AIR CLEANER ASSEMBLY..... 1 (Includes items 2 and 10-13; does not include item #3.)		10	51200167	PRIMARY AIR FILTER 1	
02	NSS	HOUSING 1		11	51200172	SECONDARY AIR FILTER 1	
03	51200851	CLAMP, AIR CLEANER MOUNT. . . 1		12	NSS	END CAP..... 1	
04	814679	WING NUT 3/8-16 ACZY..... 1			51200856	LATCH 3	
05	51200852	BRACKET, AIR CLEANER 1		13	51200857	EVACUATOR VALVE..... 1	
06	51200853	CB SN 5/16" x 1" C5ZY..... 2		14	50380168	HOSE, AIR INTAKE..... 1	
07	51200854	HN LG FL 5/16 C2ZY 2		15	809207	CLAMP, HOSE (#44)..... 1	
08	51200855	CLAMP, HOSE #52 4		16	51200858	HOSE, AIR INTAKE..... 1	
09	50380046	INTAKE SEAL 1		17	51200859	AIR RESTRICTOR INDICATOR ... 1	
				18	51200860	COUPLING, AIR RESTRICTOR ... 1	

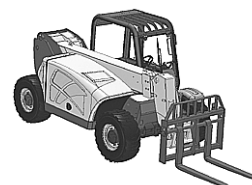
Engine

Exhaust and Heat Shields

MT 5519 Telescopic Handler

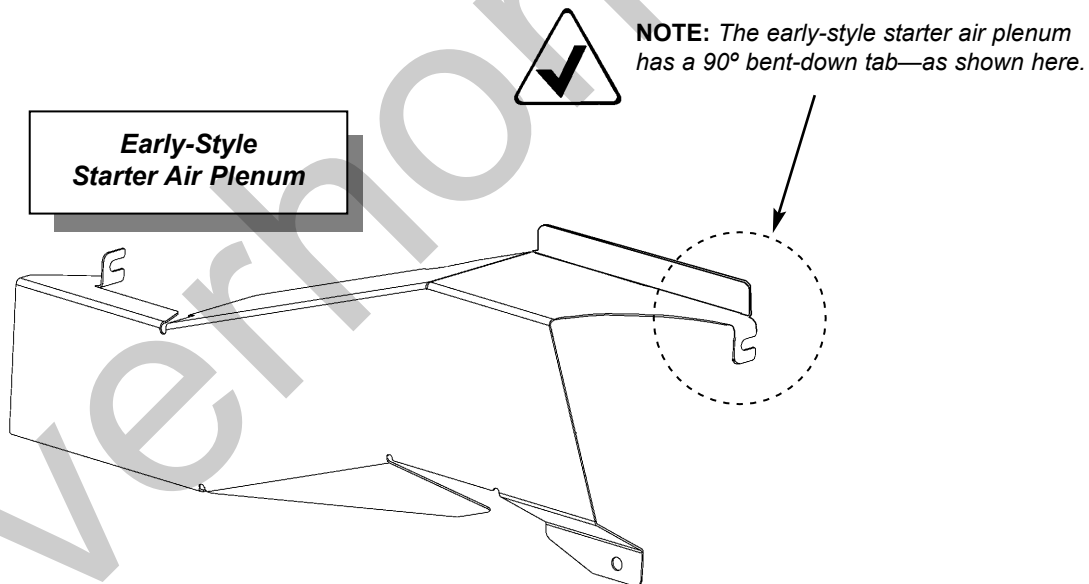


**Late-Style
Starter Air Plenum**



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200861	BLANKET, EXHAUST MANIFOLD .	1	07	51200809	CS FL M8-1.25x35 C8.8 ZY	4
02	51200862	GASKET, EXHAUST	1	08	51200679	FW M10 ZY DIN125	AR
03	51200552	HN M8-1.25 C8 ZY DIN934	4	09	51200783	CS M10-1.5x16 C8.8 ZY	1
04	51200801	LW M8 ZY DIN127	4	10 ^a	50380542	STARTER AIR PLENUM	1
05	51200863	CS M8-1.25x20 C8.8 ZY DIN931 . .	4		51202290	CS M8-1.25x45 C8.8 (<i>not shown</i>) . .	1
06	50380090	MUFFLER (<i>standard</i>)	AR		51200813	CS M8-1.25x75 C8.8 (<i>not shown</i>) . .	1
	50380091	CATALYTIC MUFFLER (<i>option</i>) . .	AR				

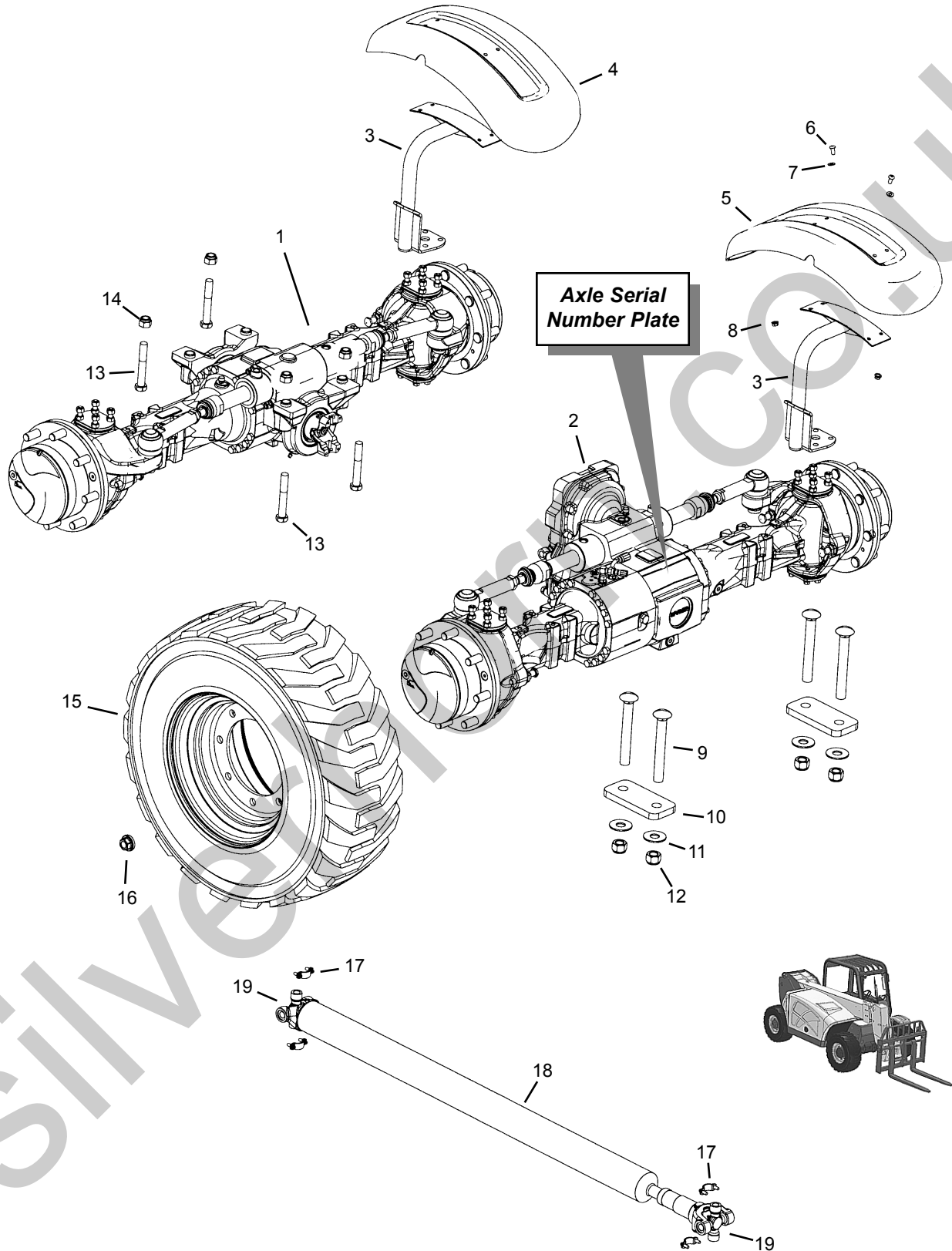
a Verify which air plenum is installed on the machine before ordering. The late-style (current) air plenum is shown as item #10 on the facing page. The early-style air plenum is shown in the illustration below. If the machine is equipped with the early-style air plenum it will be necessary to order the Starter Air Plenum Kit P/N 50380526. This kit includes the late-style air plenum, a new fuel filter mount bracket, hardware, and instructions.



Axles

MT 5519 Telescopic Handler

Mounts, Wheels, Fenders and Driveshaft



MT 5519 Telescopic Handler

Axles

Mounts, Wheels, Fenders and Driveshaft

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200864	AXLE, REAR (221/83)	1	17	51200871	U-JOINT STRAP KIT	1
02	51200865	AXLE, FRONT (603/211/69)	1			(includes 4 straps and 8 bolts)	
03 ^a	51200866	FENDER MOUNT	AR	18	51200872	DRIVESHAFT	1
04 ^a	51200867	FENDER, REAR	1			(includes item 19)	
05	51200868	FENDER, FRONT	1	19	51200873	U-JOINT	2
06	808607	3/8"X3/4" BUTTON HD BOLT	AR			(included with item 18)	
07	813591	3/8" FLAT WASHER	AR				
08	808471	3/8" FLANGE LOCK NUT	AR				
09	51200869	1"X8" CARRIAGE BOLT GR8	4				
10	51200870	AXLE MOUNT PLATE	2				
11	51200095	1" FLAT WASHER	AR				
12	809198	1" LOCK NUT / CLASS C	AR				
13	808418	M20-2.5X130 BOLT	4				
14	808599	M20-2.5 LOCK NUT	4				
15	50380341	16.5x9.75 WHEEL (rimonly)	1				
		(purchase tires locally)					
15c	50380344	SOLID TIRE/WHEEL SET	4				
	50380432	POLY-FILL FOAM WHEEL SET	4				
16	808876	M22-1.5 WHEEL NUT	AR				

--ITEMS NOT SHOWN--

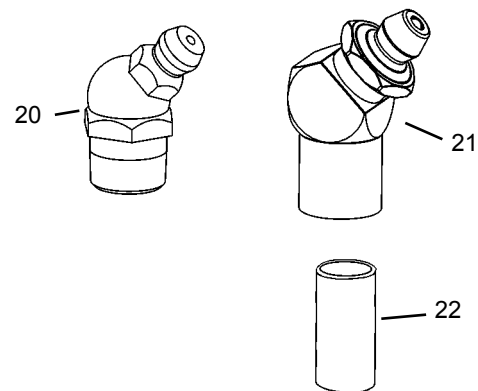
(Grease zerks for steering case - pivot)

20	51200874	ZERK, 1/8"NPTM 45°	AR
21 ^b	51200875	ZERK, 1/8"NPTF 45°	AR
22 ^b	51200876	NIPPLE/CLOSE PIPE 1/8"	AR

a Rear fender and rear mount are optional.

b Used instead of 51200874 zerk where fender mounts are being used.

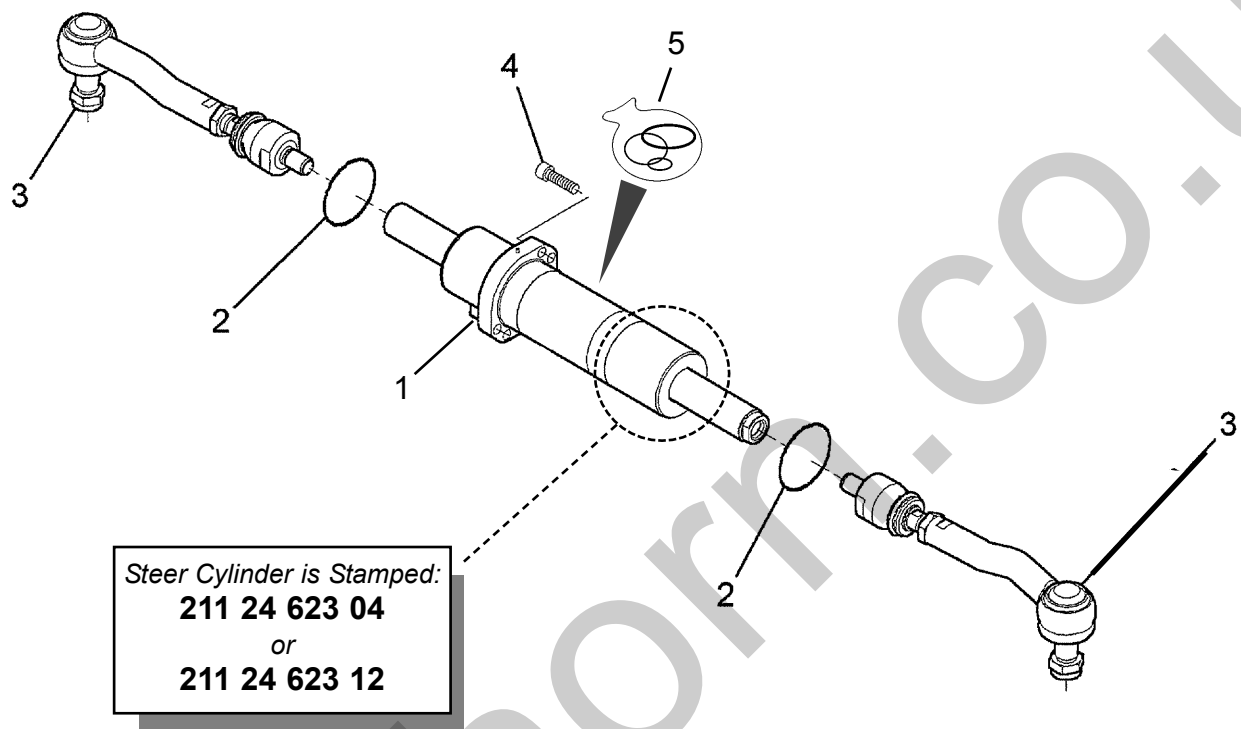
c When ordering, specify right or left side.



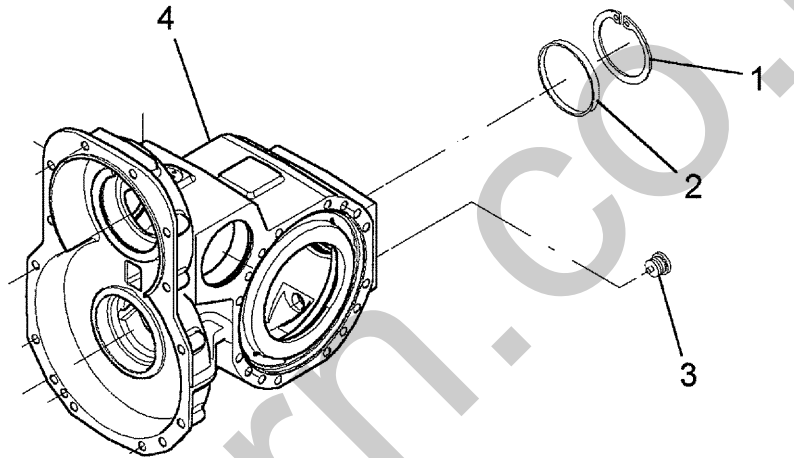
Axles

MT 5519 Telescopic Handler

Front and Rear Axle - Steer Cylinders and Tie Rods



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200877	STEER CYLINDER	1	05 ^a		SEAL KIT	1
02	51200878	RING	2	51200881		(Cylinder Stamped 211.24.623.04)	
03	51200879	ARTICULATED TIE ROD	2	51200882		(Cylinder Stamped 211.24.623.12)	
04	51200880	CYLINDER BOLT	4				
				a		Before ordering, locate the part number stamped on the steer cylinder.	
						-- ITEMS NOT SHOWN --	
				--	808076	ADAP, M18ORM -8JICM STR.	4
						(Connects steering hydraulic hoses to the steer cylinder.)	

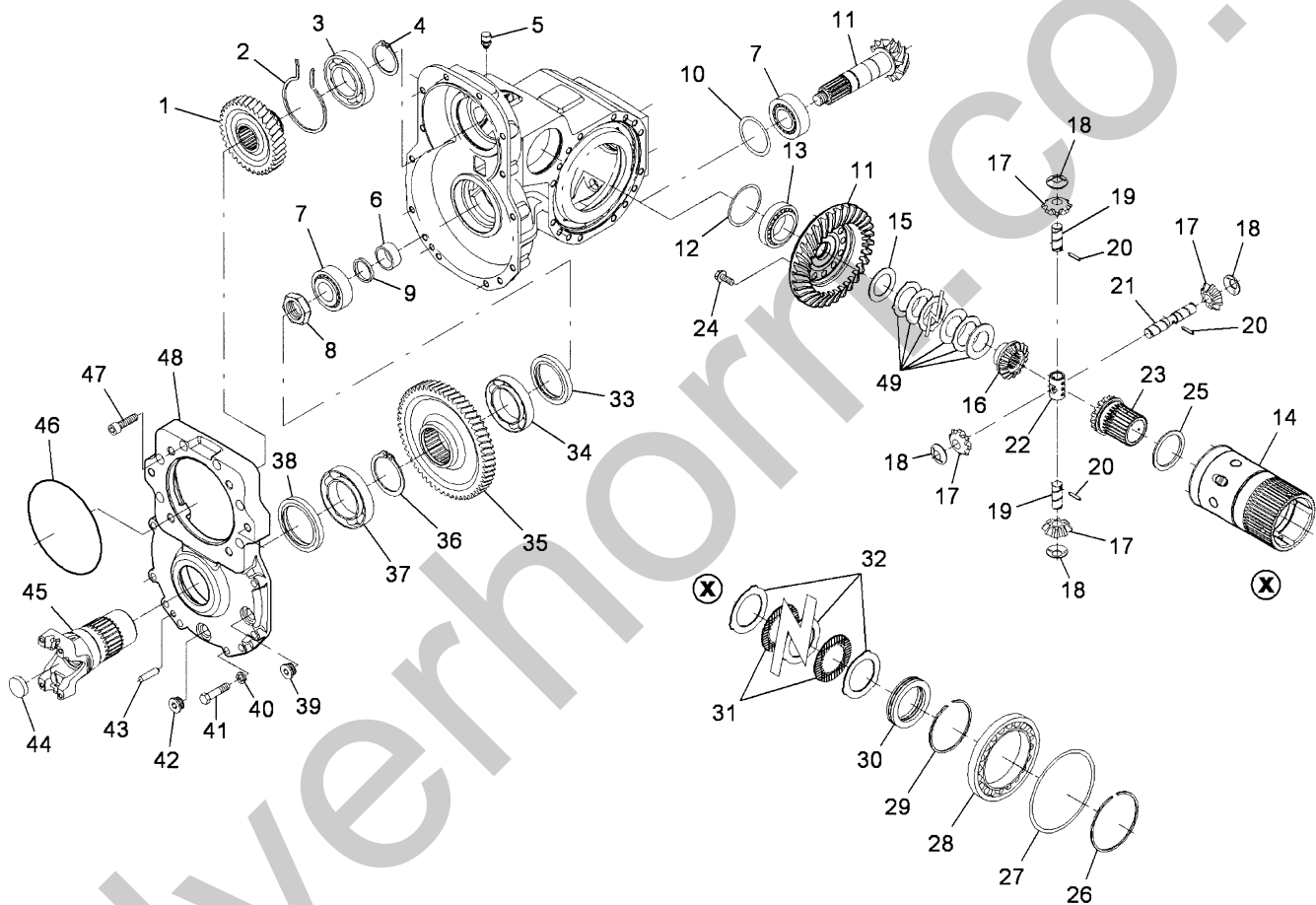


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	809050	SNAP RING.....	1	03	51200269	MAGNETIC PLUG.....	1
02	51200267	PLUG.....	1	04	51200883	HOUSING	1

Axles

Front Axle - Differential

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

Axles

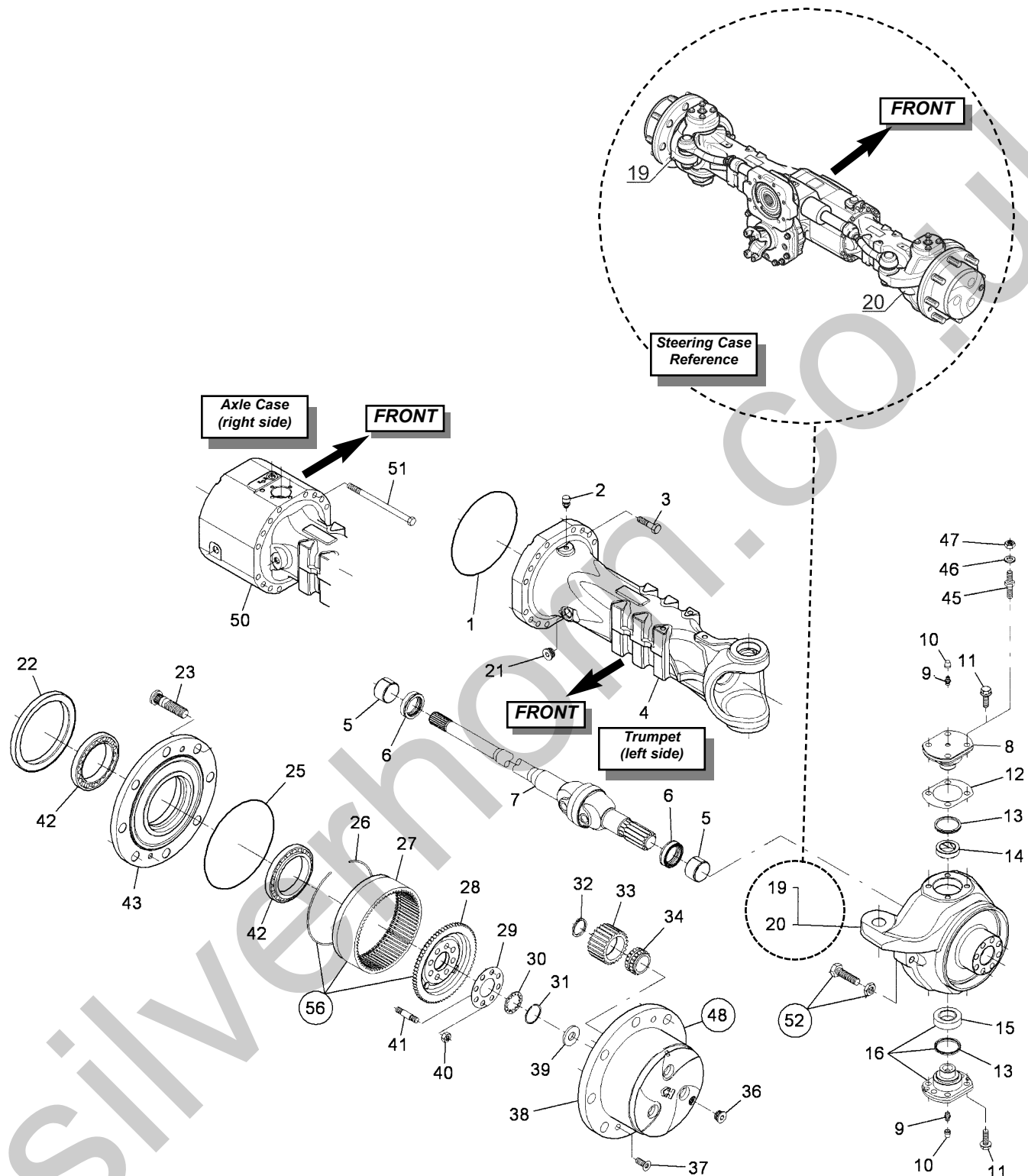
Front Axle - Differential

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200884	GEAR.....	1	23		DIFFERENTIAL SIDE GEAR.....	1
02	51200885	SNAP RING.....	1		51200916	<i>Note a and b</i>	
03	51200886	BEARING.....	1		51200917	<i>Note c and d</i>	
04	51200887	SNAP RING.....	1	24	51200918	BOLT.....	12
05	808516	VENT.....	1	25	51200919	FRICTION WASHER.....	1
06	51200888	SPACER.....	1	26	51200920	SNAP RING.....	1
07	51200889	BEARING.....	2	27	51200921	SHIM.....	1
08	51200890	RING NUT.....	1		51200922	SHIM.....	1
09	51200891	RING.....	1		51200923	SHIM.....	1
	51200892	RING.....	1	28	51200924	BEARING.....	1
10	51200893	SHIM.....	AR	29	51200925	SNAP RING.....	1
	51200894	SHIM.....	AR	30	51200926	BEARING.....	1
	51200895	SHIM.....	AR	31	51200927	CLUTCH DISC.....	7
11	51200896	BEVEL GEAR SET.....	1	32	51200928	INTERMEDIATE CLUTCH DISC...	8
12	51200897	SHIM.....	AR	33	51200929	SEAL.....	1
	51200898	SHIM.....	AR	34	51200930	BALL BEARING.....	1
	51200899	SHIM.....	AR	35	51200931	GEAR.....	1
	51200900	SHIM.....	AR	36	51200932	SNAP RING.....	1
13	51200901	BEARING.....	1	37	51200933	BEARING.....	1
14		DIFFERENTIAL CARRIER.....	1	38	51200934	SEAL.....	1
	51200902	<i>Note a</i>		39	51200269	PLUG.....	1
	51200903	<i>Note b and c</i>		40	51200935	SPRING WASHER.....	8
15	51200904	FRICTION WASHER.....	1	41	51200936	BOLT.....	8
16		DIFFERENTIAL SIDE GEAR.....	1	42	51200270	MAGNETIC PLUG.....	1
	51200905	<i>Note a and b</i>		43	51200937	DOWEL.....	1
	51200906	<i>Note c</i>		44	51200938	PLUG.....	1
17		DIFFERENTIAL PINION.....	4	45	51200939	FLANGE.....	1
	51200907	<i>Note a and b</i>		46	51200940	O-RING.....	1
	51200908	<i>Note c</i>		47	51200880	BOLT.....	6
18	51200909	FRICTION WASHER.....	4	48	51200941	COVER.....	1
19		PIN.....	2	49	51200942	CLUTCH DISC.....	1
	51200910	<i>Note a</i>					
	50220067	<i>Note b and c</i>					
20	51200912	DOWEL.....	3	a	<i>Axle SN K.ITA.528691 and up</i>		
21		PIN.....	1	b	<i>Axle SN I.ITA.517518 - SN K.ITA.528690</i>		
	51200913	<i>Note a</i>		c	<i>Axle SN I.ITA.517517 and before</i>		
	50220067	<i>Note b and c</i>		d	<i>Includes items #16 (51200905) and #17 (51200907).</i>		
22	51200915	SHAFT RETAINER.....	1				

Axles

Front Axle - Reduction Hub

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

Axles

Front Axle - Reduction Hub

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200943	O-RING	2	34	51200966	BEARING.....	6
02	808516	VENT	1	36	818169	PLUG.....	2
03	51200944	BOLT	16	37	51200339	BOLT	4
04	51200945	AXLE CASE.....	1	38	51200967	PLANET GEAR CARRIER	2
05 ^e	51200946	THRUST BUSHING.....	2	39	51200968	FRICTION WASHER.....	2
06	51200947	SEAL	4	40	51200969	NUT	16
07	51200948	UNIVERSAL JOINT	2	41	51200970	STUD.....	16
08	51200949	PIVOT PIN.....	2	42	51200971	BEARING.....	4
09	809046	GREASE FITTING.....	4	43	51200972	WHEEL HUB.....	2
10	808543	PLUG.....	4	45	808313	STUD.....	8
11	808525	BOLT	20	46	808177	WASHER.....	8
12	51200950	SHIM.....	AR	47	808180	NUT.....	8
	51200951	SHIM.....	AR	48 ^b	51200973	PLANET GEAR CARRIER	2
	51200952	SHIM.....	AR	50	51200974	AXLE CASE.....	1
13	51200953	SEAL	2	51	51200975	BOLT	16
14	51200954	BUSHING	2	52 ^c	51200340	STEERING ADJUST BOLT.....	4
15	51200955	BUSHING/BEARING	2	56 ^d	51200976	RING GEAR SUPPORT	2
16	51200956	PIVOT PIN.....	2				
19 ^a	51200957	STEERING CASE (includes #5) ...	1				
20 ^a	51200958	STEERING CASE (includes #5) ...	1				
21	51200269	PLUG.....	1				
22	51200338	SEAL	2				
23	51200959	WHEEL STUD.....	16				
25	51200580	O-RING	2				
26	809445	SNAP RING	2				
27	809439	RING GEAR	2				
28	51200960	RING GEAR SUPPORT	2				
29	51200961	LOCKING PLATE	2				
30	51200962	RING	2				
31	51200963	SNAP RING	2				
32	51200964	SNAP RING	6				
33	51200965	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.

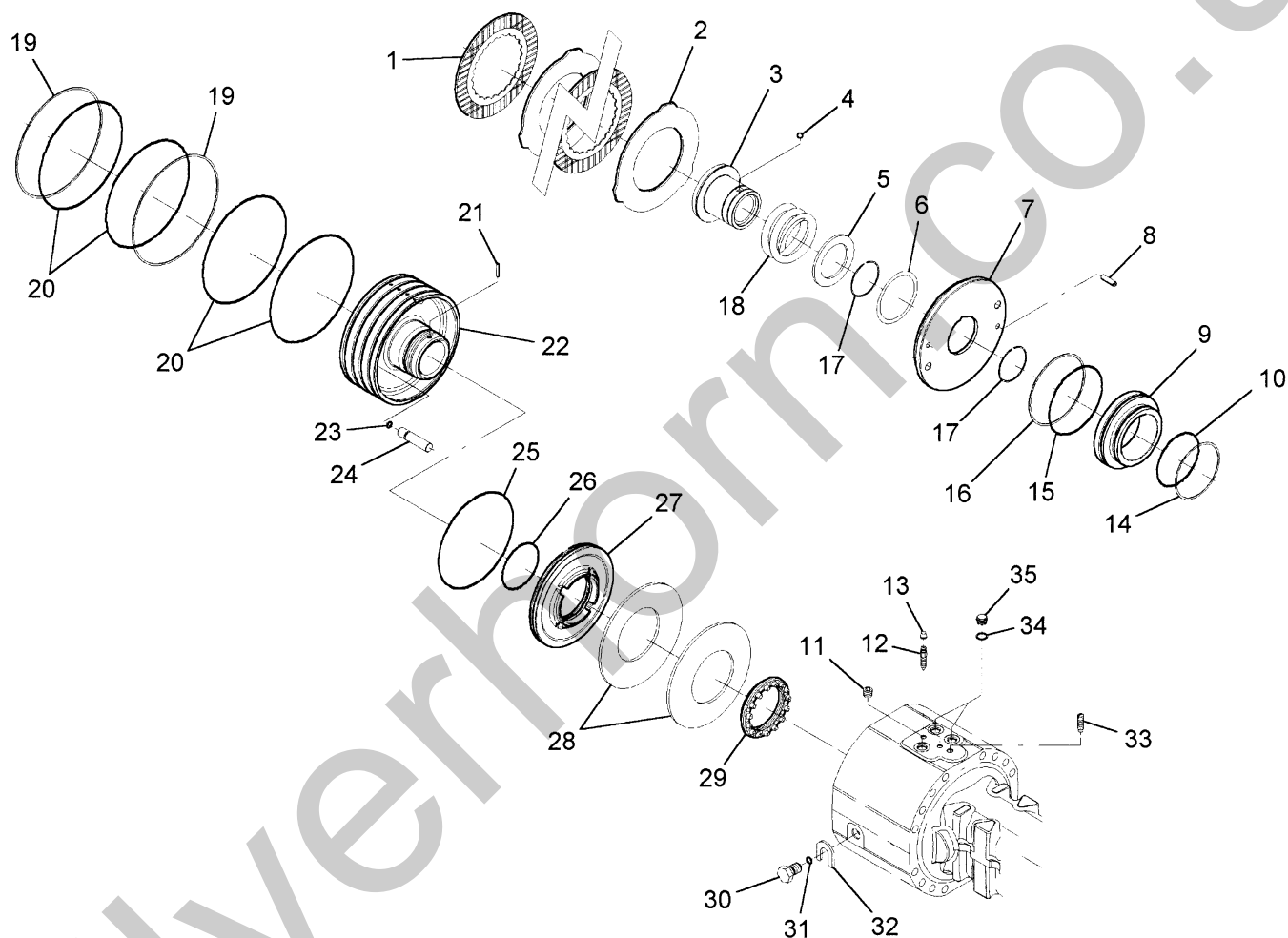
d Includes items 26 - 28.

e Included with items 19 and 20.

Axles

Front Axle - Brakes

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

Axles

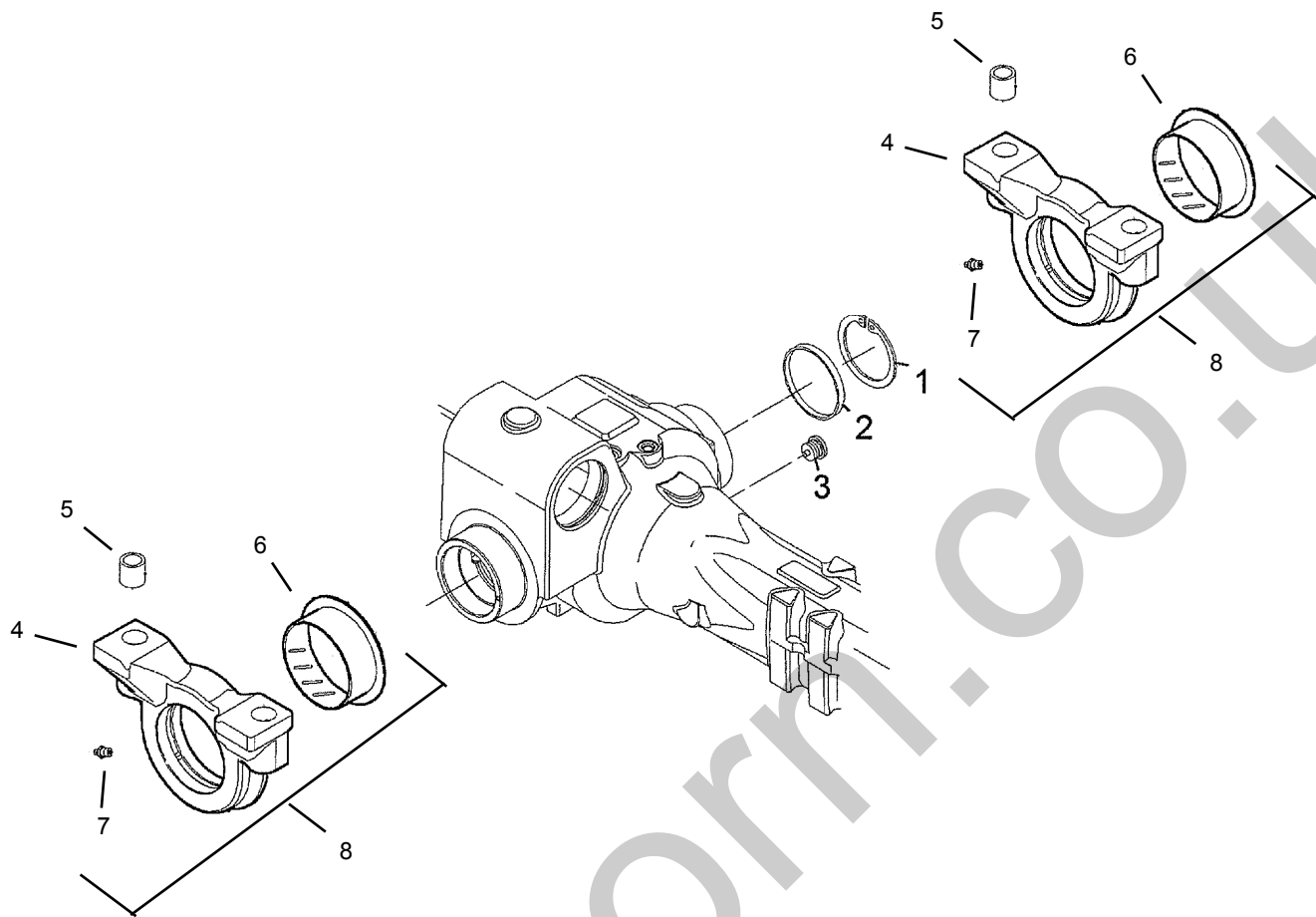
Front Axle - Brakes

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200977	BRAKE DISC.....	6	17	51200997	SNAP RING.....	2
02	51200978	INTERMEDIATE BRAKE DISC....	6	18	51200998	SPRING.....	1
03		BUSHING.....	1	19	51200999	BACK-UP RING.....	4
	51200979	<i>Note a and b</i>		20	51201000	O-RING.....	4
	51200976	<i>Note c</i>		21	51200912	DOWEL.....	1
04 ^d	51200981	DETENTE BALL.....	AR	22	51202001	PISTON.....	1
05		SPACER.....	1	23	51202002	O-RING.....	3
	51200982	<i>Note a and b</i>		24	51202003	PIN.....	3
	51200983	<i>Note c</i>		25	51202004	O-RING.....	1
06	51200984	SHIM.....	2	26	51202005	O-RING.....	1
	51200985	SHIM.....	2	27	51202006	PISTON.....	1
	51200986	SHIM.....	2	28	51202007	SPRING.....	2
	51200987	SHIM.....	2	29	51202008	RING NUT.....	1
	51200988	SHIM.....	2	30	51202009	BOLT.....	2
07		INTERMEDIATE BRAKE DISC....	1	31	51202010	O-RING.....	2
	51200989	<i>Note a</i>		32	51202011	SPACER.....	2
	51200990	<i>Note b</i>		33	51202012	BOLT.....	1
	51200991	<i>Note c</i>		34	51200349	SEAL WASHER.....	2
08	51200992	ROLL PIN.....	2	35	51200347	BOLT.....	2
09	51200993	PISTON.....	1				
10	51200994	O-RING.....	1	a	<i>Axle SN K.ITA.528691 and up</i>		
11	51200995	PLUG.....	1	b	<i>Axle SN K.ITA.521434 - SN K.ITA.528690</i>		
12	51200348	BLEED SCREW.....	2	c	<i>Axle SN K.ITA.521433 and before</i>		
13	808543	PLUG.....	2	d	<i>Axle SN K.ITA.521434 and up uses 2 detente balls; axle SN K.ITA.521433 and before uses 1 detente ball.</i>		
14	51200996	BACK-UP RING.....	1				
15	51200350	O-RING.....	1				
16	51200351	BACK-UP RING.....	1				

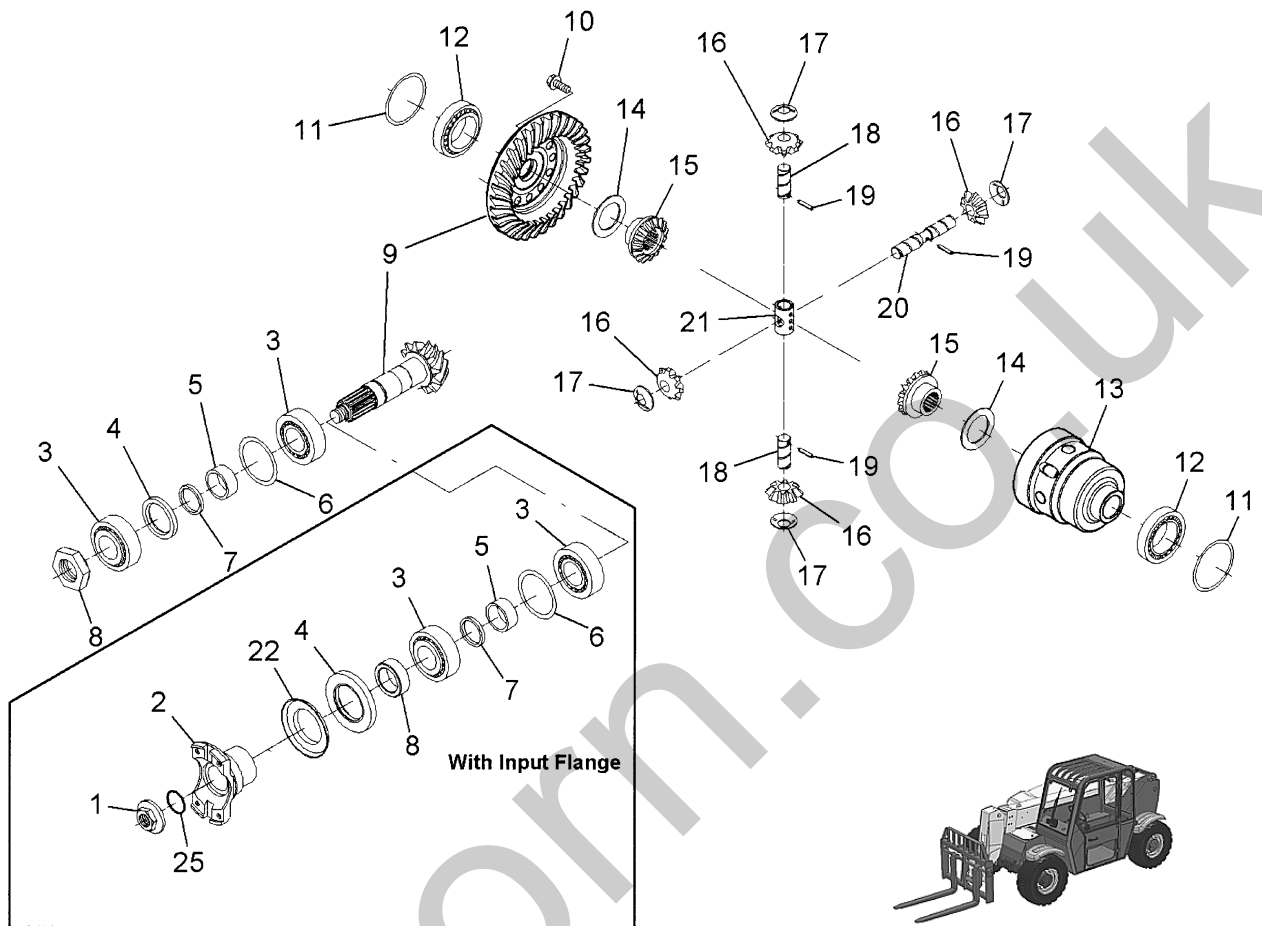
Axles

MT 5519 Telescopic Handler

Rear Axle - Central Housing



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	809050	SNAP RING.....	1	05	808552	REDUCTION BUSHING	4
02	51200267	PLUG	1	06	51202014	THRUST BUSHING.....	2
03	51200270	MAGNETIC PLUG.....	1	07	809046	GREASE FITTING.....	2
04	51202013	SUPPORT	2	08	51202015	SUPPORT (complete as shown)...	2



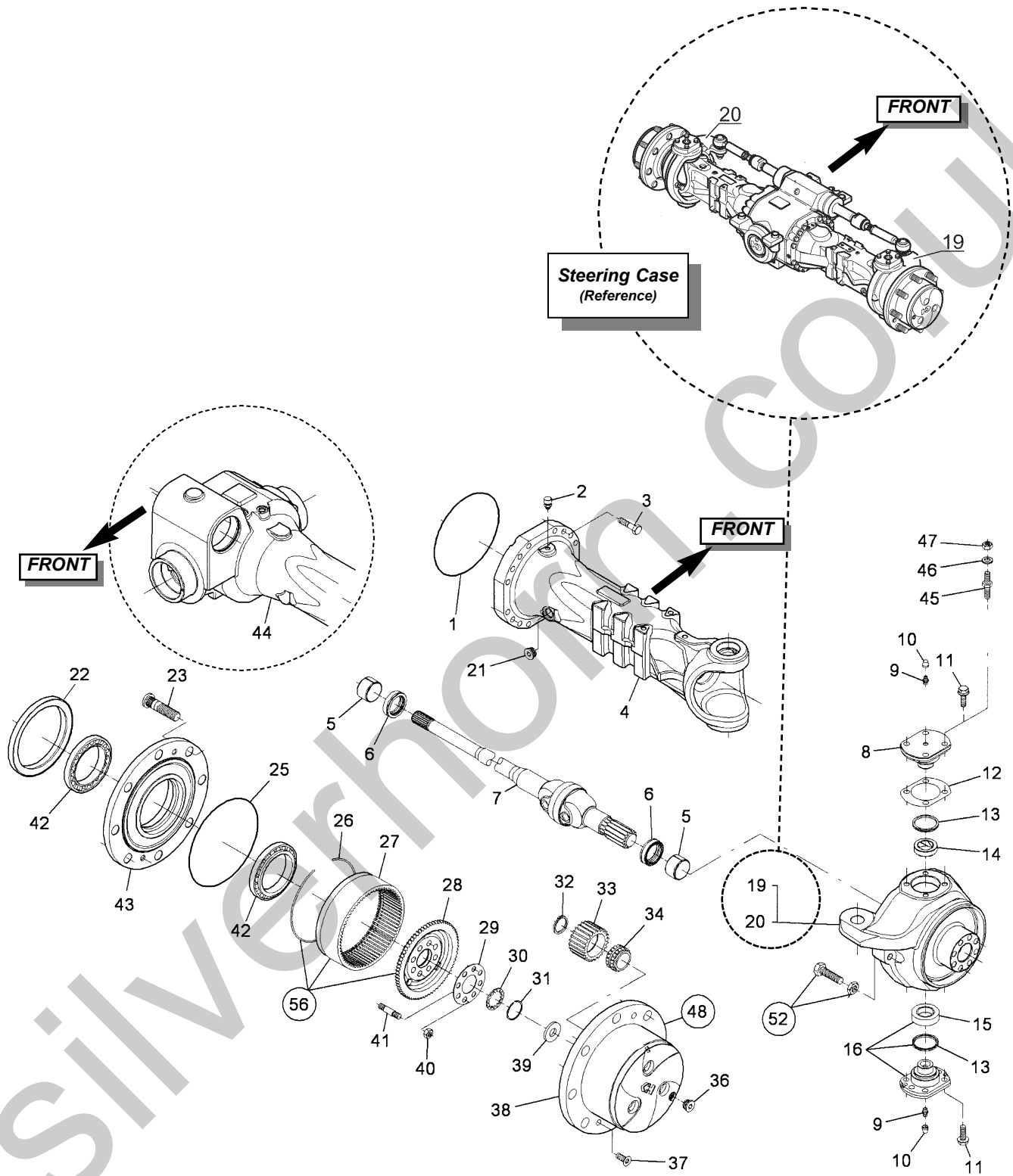
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51202016	NUT	1	15		DIFFERENTIAL SIDE GEAR	2
02	51202017	FLANGE	1		51202021	<i>Note a and b</i>	
03	51200889	BEARING	2		51202022	<i>Note c</i>	
04	809053	SEAL	1	16		DIFFERENTIAL PINION	4
05	51200888	SPACER	1		51200907	<i>Note a and b</i>	
06	51200893	SHIM	1		51200908	<i>Note c</i>	
	51200894	SHIM	1	17	51200909	FRICTION WASHER	4
	51200895	SHIM	1	18		PIN	2
07	51200891	RING	1		51200910	<i>Note a</i>	
	51200892	RING	1		50220067	<i>Note b and c</i>	
08	51202018	SPACER	1	19	51200912	DOWEL	3
09	51202019	BEVEL GEAR	1	20		PIN	1
10	51200918	BOLT	12		51200913	<i>Note a</i>	
11	51200897	SHIM	2		50220067	<i>Note b and c</i>	
	51200898	SHIM	2	21	51200915	SHAFT RETAINER	1
	51200899	SHIM	2	22	51202023	COVER PLATE	1
	51200900	SHIM	2	25	51202024	O-RING	1
12	51200901	BEARING	2				
13	51202020	DIFFERENTIAL CARRIER	1				
14	51200904	FRICTION WASHER	2				

a Axle S/N K.ITA.529750 and up
b Axle S/N I.ITA.516674 - S/N K.ITA.529749
c Axle S/N I.ITA.516673 and before

Axles

Rear Axle - Reduction Hub

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

Axles

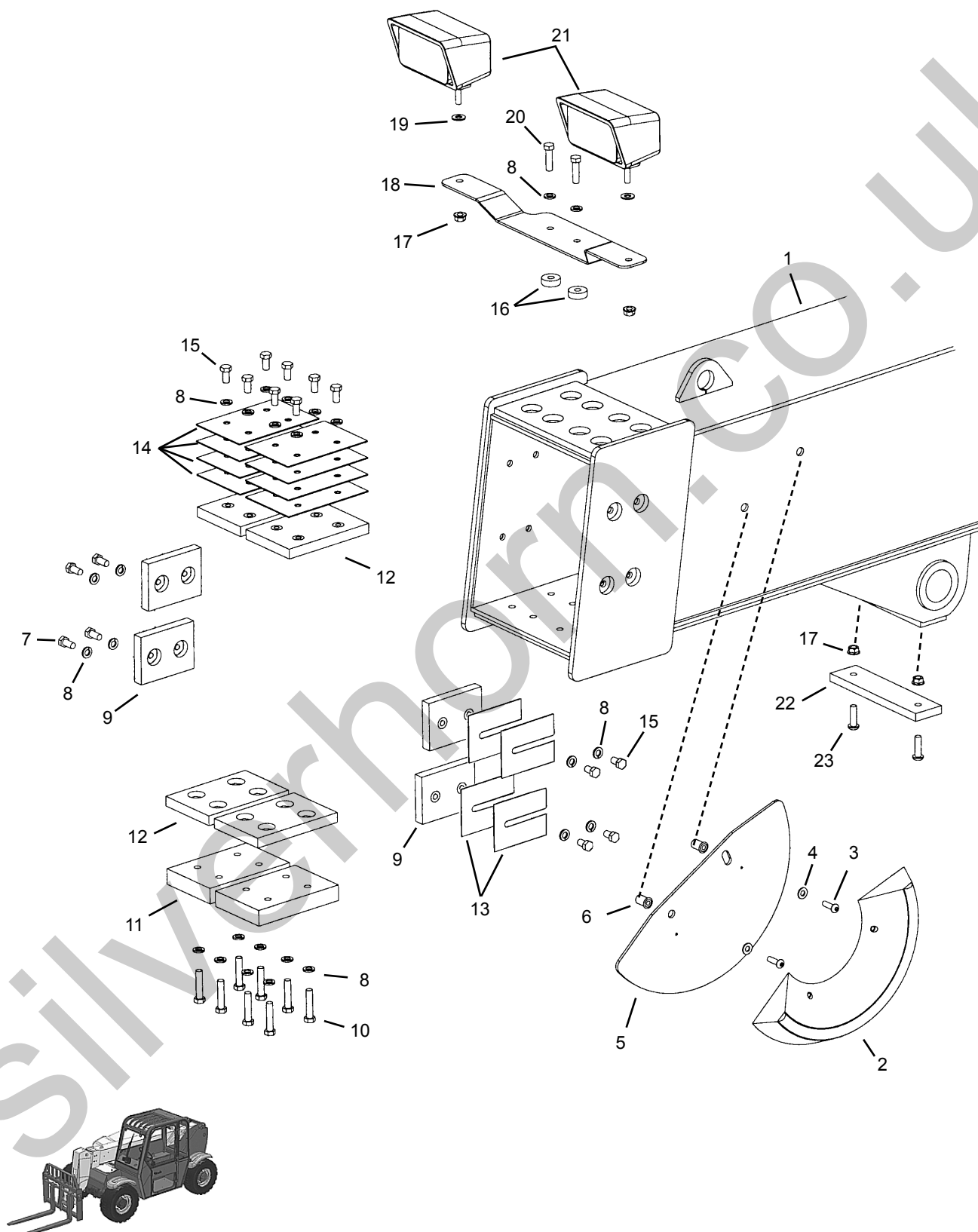
Rear Axle - Reduction Hub

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200943	O-RING	2	34	51200966	BEARING.....	6
02	808516	VENT.....	1	36	818169	PLUG.....	2
03	51200944	BOLT.....	16	37	51200339	BOLT.....	4
04	51200945	AXLE CASE.....	1	38	51200967	PLANET GEAR CARRIER.....	2
05 ^e	51200946	THRUST BUSHING.....	2	39	51200968	FRICTION WASHER.....	2
06	51200947	SEAL.....	4	40	51200969	NUT.....	16
07	51200948	UNIVERSAL JOINT.....	2	41	51200970	STUD.....	16
08	51200949	PIVOT PIN.....	2	42	51200971	BEARING.....	4
09	809046	GREASE FITTING.....	4	43	51200972	WHEEL HUB.....	2
10	808543	PLUG.....	4	44	51202025	AXLE CASE.....	1
11	808525	BOLT.....	20	45	808313	STUD.....	8
12	51200950	SHIM.....	2	46	808177	WASHER.....	8
	51200951	SHIM.....	2	47	808180	NUT.....	8
	51200952	SHIM.....	2	48 ^b	51200973	PLANET GEAR CARRIER.....	2
13	51200953	SEAL.....	2	52 ^c	51200340	STEERING ADJUST BOLT.....	4
14	51200954	BUSHING.....	2	56 ^d	51200976	RING GEAR SUPPORT.....	2
15	51200955	BUSHING/BEARING.....	2				
16	51200956	PIVOT PIN.....	2				
19 ^a	51200957	STEERING CASE (includes #5)...	1	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.		
20 ^a	51200958	STEERING CASE (includes #5)...	1				
21	51200269	PLUG.....	1				
22	51200338	SEAL.....	2				
23	51200959	WHEEL STUD.....	16				
25	51200580	O-RING.....	2				
26	809445	SNAP RING.....	2	b	Includes items 32, 33, 34, 38 and 39.		
27	809439	RING GEAR.....	2				
28	51200960	RING GEAR SUPPORT.....	2	c	Includes adjusting bolt and jam nut.		
29	51200961	LOCKING PLATE.....	2				
30	51200962	RING.....	2	d	Includes items 26 - 28.		
31	51200963	SNAP RING.....	2				
32	51200964	SNAP RING.....	6	e	Included with items 19 and 20.		
33	51200965	PLANET GEAR.....	6				

Boom

Outer Boom - Front

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

Boom Outer Boom - Front

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51202035	OUTER BOOM WELDMENT	1	17 ^a	808471	3/8" WHIZ LOCK NUT	AR
02	808797	INCLINOMETER-ANGLE IND.	1	18 ^a	51202029	LIGHT BRACKET	1
	809492	#8X5/8" RND HD MACH.SCREW.	2	19 ^a	808595	1/2" FLAT WASHER.	AR
03	809486	5/16"-18X1" BTNHD BOLT	2	20 ^a	51202030	3/8"X1-3/8" BOLT	AR
04	813610	5/16" FLAT WASHER	2	21 ^a	808890	WORK LIGHT	2
05	808800	PLATE, BOOM ANGLE IND.	1	22	51202031	BOOM REST PAD.	1
06	808902	5/16"-18 NUTSERT	2	23	813549	3/8"X1-1/4" BTTN HD BOLT	2
07	51200059	3/8"X5/8" BOLT.	AR				
08	813849	3/8" LOCK WASHER	AR				
09	808693	3"X4" SLIDE PAD	AR				
10	814029	3/8"X1-3/4" BOLT	AR				
11	51202034	SLIDE PAD SPACER	AR	-- a	51202032	WIRE HARNESS, BOOM LIGHTS	1
12	808692	4"X6" SLIDE PAD	AR	-- a	51202033	TIE STRAP 0.171X11".	16
13		SHIM.	AR				
	51202026	1/16"X3"X4"		a		When equipped with optional boom work lights	
	51202027	1/8"X3"X4"		b		Also used on the side of the boom with a vinyl clamp to secure boom wire harness	
14	808700	4"X6"X1/16" SHIM	AR				
15	813677	3/8"X3/4" BOLT.	AR				
16 ^{ab}	51202028	BOOM LIGHT SPACER	AR				

-- ITEMS NOT SHOWN --

-- a	51202032	WIRE HARNESS, BOOM LIGHTS	1
-- a	51202033	TIE STRAP 0.171X11".	16

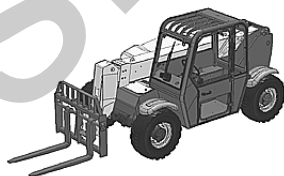
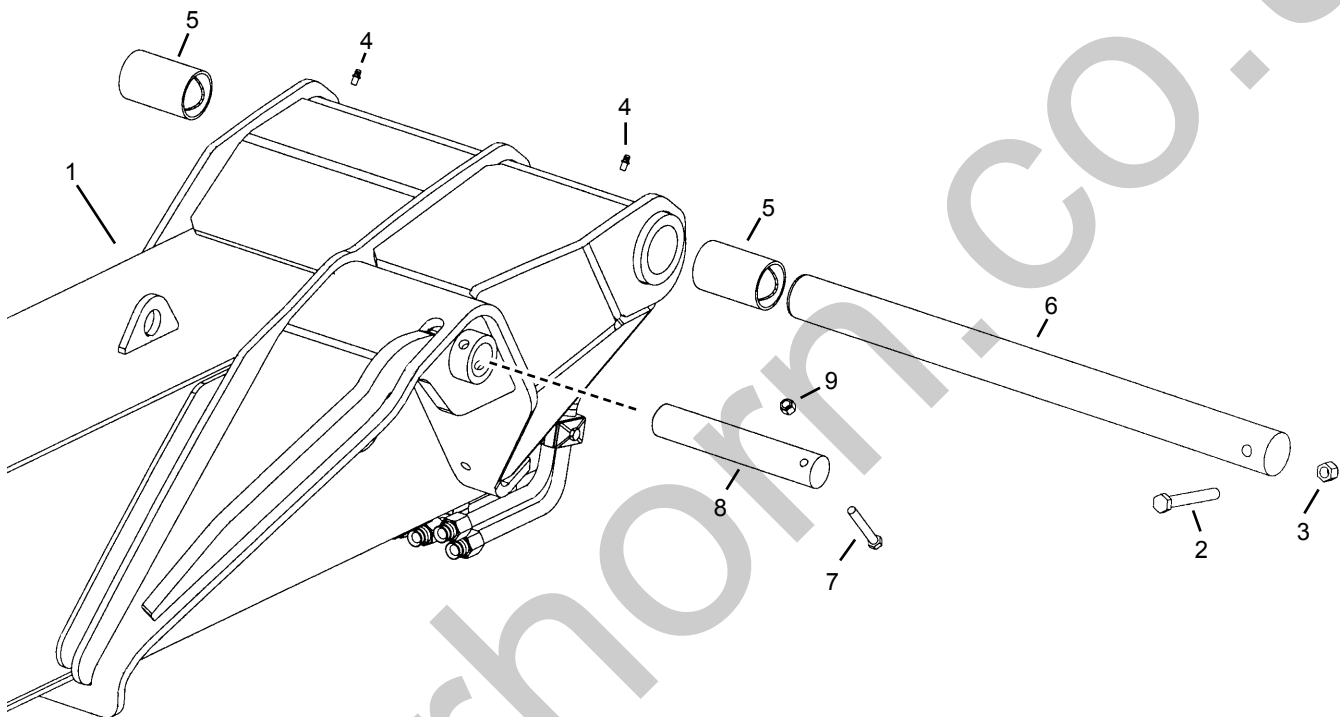
a When equipped with optional boom work lights

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

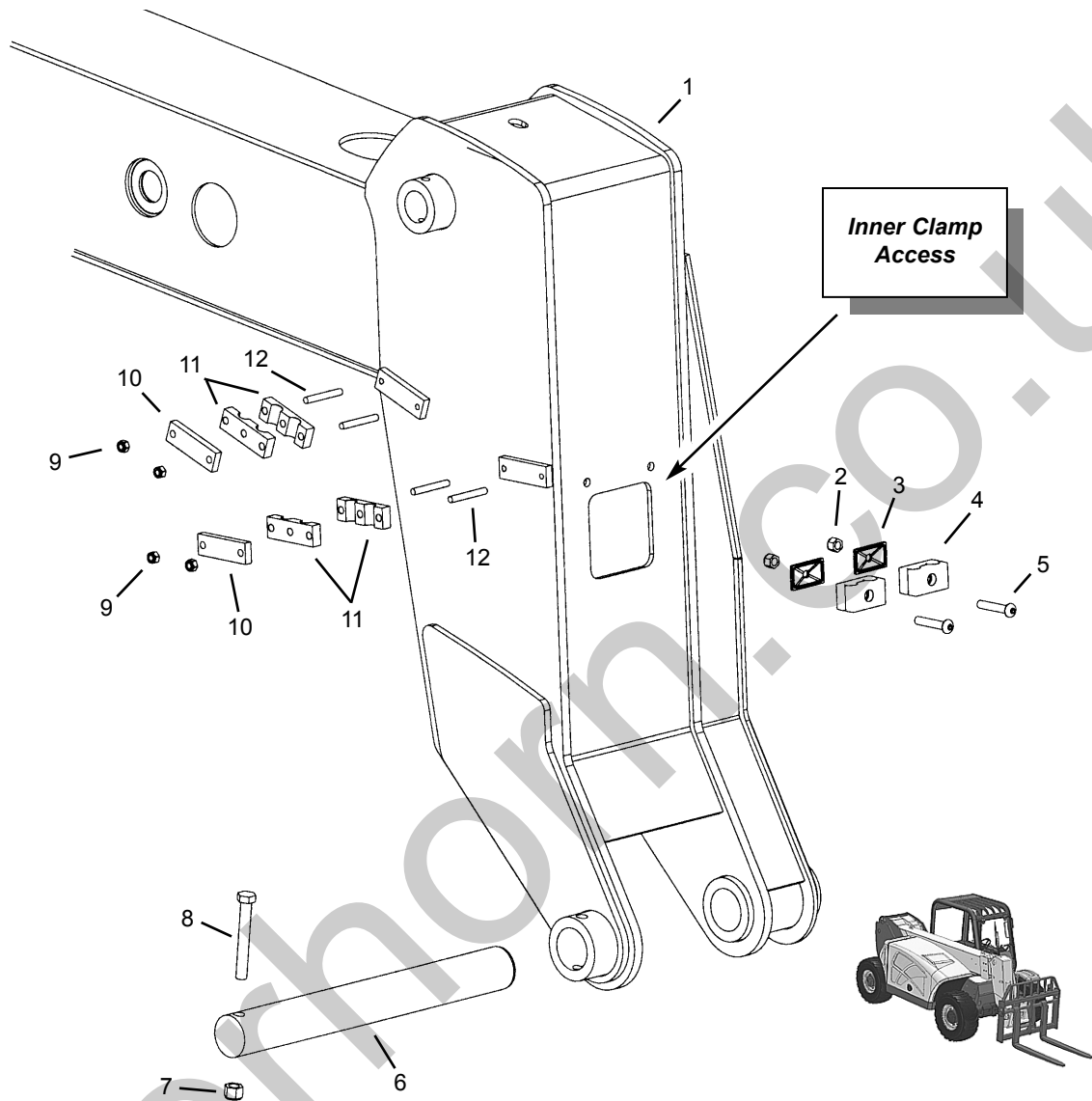
Boom Outer Boom - Rear

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51202035	OUTER BOOM WELDMENT	1	06	51202037	BOOM PIVOT PIN	1
02	51200382	1/2"X4" BOLT	1	07	51200400	3/8"X2-3/4" BOLT	1
03	51202038	1/2" NYLON INSERT NUT	1	08	51202039	SLAVE CYL PIN (ROD END)	1
04	808424	1/4"-28 GREASE ZERK	2	09	808663	3/8" NYLON INSERT NUT	1
05	51202036	BUSHING	2				

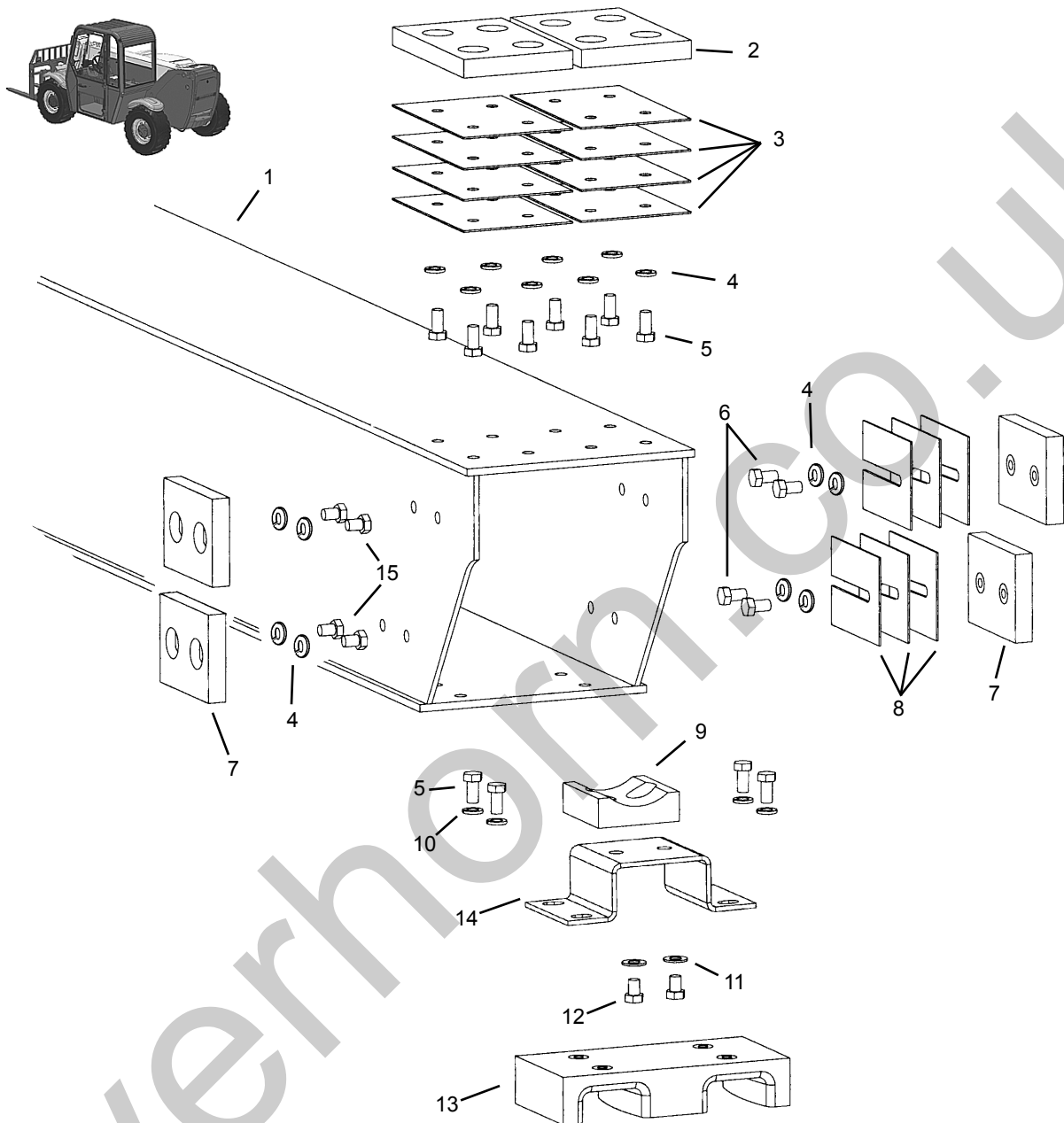
Boom

Inner Boom - Front

MT 5519 Telescopic Handler



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51202040	INNER BOOM WELDMENT	1	10 ^b	808727	TOP PLATE, TWIN CUSHION	2
02 ^a	813656	3/8" NYLON INSERT NUT	AR	11 ^b	808832	TUBE CLAMP, DOUBLE	4
03 ^a	808881	PLATE, TWIN CLAMP	AR	12 ^b	51202044	5/16"X2-1/2" STUD	4
04 ^a	808880	CLAMP, 5/8" TWIN TUBE.	AR				
05	51202041	5/16"X2-1/4" BTTN HD BOLT.	AR				
06	51202042	PIVOT PIN.	1	<i>a</i>	<i>Mounted inside of boom through inner clamp access hole</i>		
07	51202038	1/2" NYLON INSERT NUT	1	<i>b</i>	<i>When equipped with auxiliary hydraulic option</i>		
08	51202043	1/2"X3-3/4" BOLT	1				
09 ^b	808662	5/16" NUT	4				

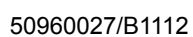


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51202040	INNER BOOM WELDMENT 1 (includes item 16)	1	09	51202045	EXTEND CYL. SUPPORT PAD . . . 1	1
02	808692	4"X6" SLIDE PAD 2	2	10	813591	3/8" FLAT WASHER 2	2
03	808700	4"X6"X1/16" SHIM AR	AR	11	813849	3/8" LOCK WASHER AR	AR
04	813849	3/8" LOCK WASHER AR	AR	12	813677	3/8"X3/4" BOLT AR	AR
05	814211	3/8"X7/8" BOLT AR	AR	13	51202046	SLIDE PAD, HOSE GUIDE 1	1
06	813677	3/8"X3/4" BOLT AR	AR	14	51202047	EXTEND CYL. SUPPORT 1	1
07	808693	3"X4" SLIDE PAD AR	AR	15	51200059	3/8"X5/8" BOLT AR	AR
08		SHIM AR	AR				
	51202026	1/16"X3"X4"					
	51202027	1/8"X3"X4"					

This technical diagram illustrates the exploded view of a hydraulic cylinder assembly. The components are numbered as follows:

- 1**: Main hydraulic cylinder body.
- 2**: Small pin or bolt.
- 3**: Protective cap or end fitting.
- 4**: Seal or O-ring.
- 5**: Piston rod.
- 6**: Piston rod seal or wiper.
- 7**: Piston rod end fitting or cap.
- 8**: Piston rod end plate or bracket.
- 9**: Piston rod end mounting bracket.
- 10**: Piston rod end fitting or cap.
- 11**: Small pin or bolt.
- 12**: Small pin or bolt.
- 13**: Small pin or bolt.
- 14**: Small pin or bolt.
- 15**: Long piston rod.
- 16**: Piston rod end fitting or cap.

The diagram shows the assembly of the cylinder body (1) with the piston rod (5) and various seals (4, 6) and end fittings (3, 7, 10, 16). The piston rod is also shown with mounting brackets (9, 8) and a protective cap (3). The assembly is shown in an exploded view to illustrate the relationship between the components.

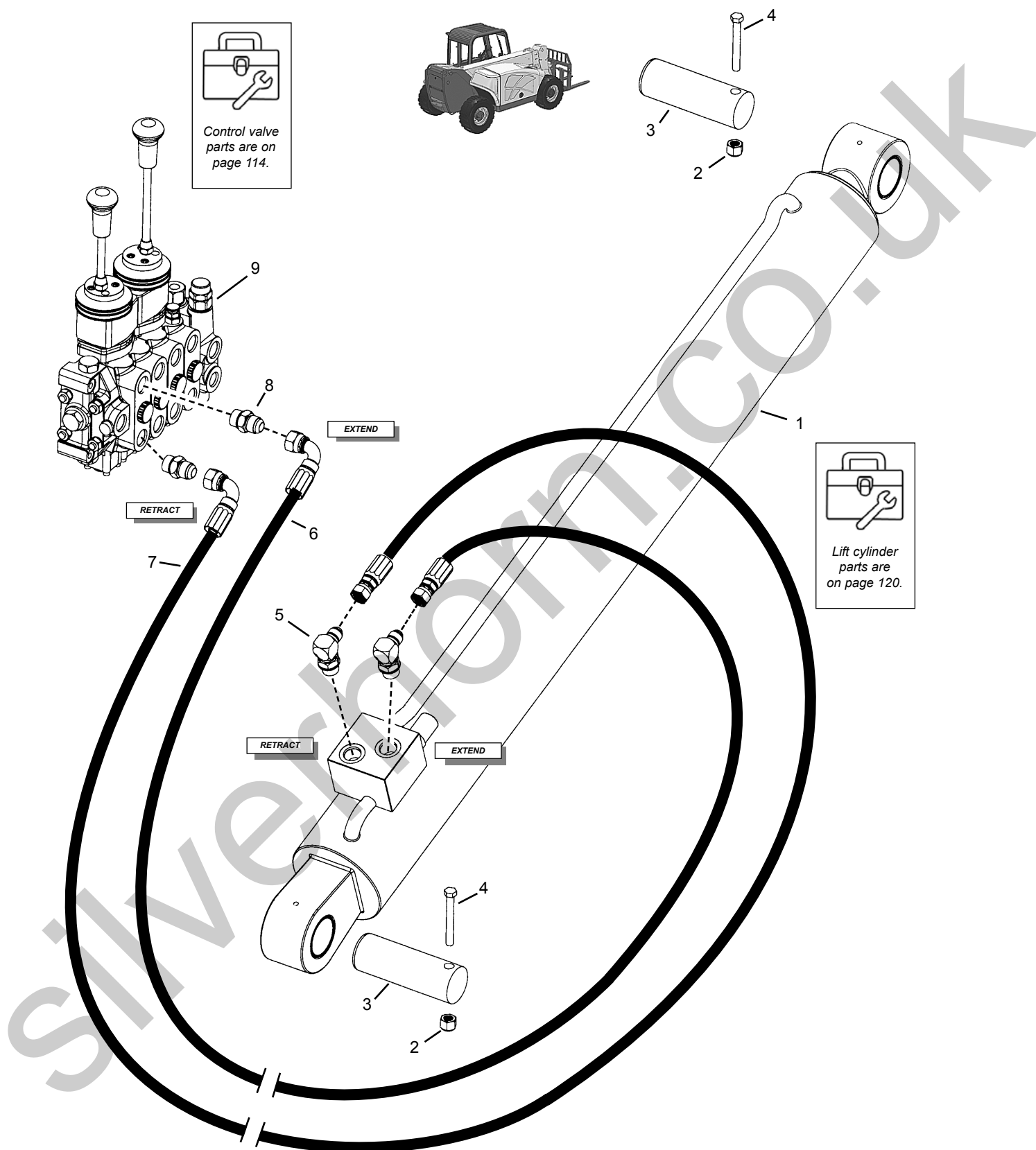


MT 5519 Telescopic Handler

Boom

Dynattach® Mount Assembly

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51202048	DYNATTACH WELDMENT 1 (includes items 3, 4 and 16)		09	809546	LOCK AND PIN ASSEMBLY 1 (does not include item 7)	
02	808424	1/4"-28 GREASE ZERK STR. . . . AR		10	809531	PIN, TILT CYLINDER ROD 1	
03	51202049	PIVOT BEARING 1		11	813656	3/8" NYLON INSERT NUT 1	
04	808811	BUSHING, LOCK PIN 2		12	51200400	3/8"X2-3/4" BOLT 1	
05	808786	LOCK SPRING 1		13	51202038	1/2" NYLON INSERT NUT 1	
06	808787	SPRING MOUNT 1		14	51202043	1/2"X3-3/4" BOLT 1	
07	808633	3/16"X1-3/4" ROLL PIN 1		15	51202042	PIN, PIVOT 1	
08	808038	DECAL, DYNATTACH UNLOCKED 1 (adheres to item 9)		16	51202051	PIVOT BEARING 2	



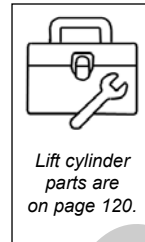
MT 5519 Telescopic Handler

Boom Hydraulics

Lift Cylinder Group

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	<i>Note a</i>	LIFT CYLINDER	2	08	814291	ADAP -10ORM -8JICM STR.	2
02	808665	1/2" NYLON INSERT NUT	2	09	51202055	VALVE, CONTROL	1
03	51202052	PIN, LIFT CYLINDER	2				
04	813711	1/2"X4" BOLT GR5	2			-- ITEMS NOT SHOWN --	
05	51202053	ADAP., -10ORM -8JICM 90°	2	--	51202056	NYLON SLEEVE	1
06	51202054	HOSE, -8 A8/DM8 97"	1			(used with items 6 and 7)	
07	51202054	HOSE, -8 A8/DM8 97"	1				

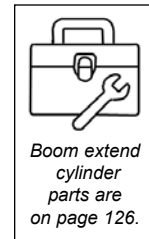
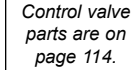
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Boom Hydraulics

Extend Cylinder Group

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

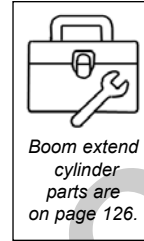
Boom Hydraulics Extend Cylinder Group

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	Note a	CYLINDER, EXTEND	1	17	51202063	PIN, EXTEND ROD END	1
02	51202057	ADAP., -8ORM -10JICM 90°	2	18	814233	PAD, SLIDE 1-1/2"X4"	2
03	51202058	PIN, EXTEND CYL. BASE	1	19	813849	3/8" LOCK WASHER	4
04	808663	3/8" NYLON INSERT NUT	1	20	51200059	3/8"X5/8" BOLT	4
05	813711	3/8"X3" BOLT.	1				
06	51202059	HOSE, -8 H10/DL8 68"	1				
07	51202059	HOSE, -8 H10/DL8 68"	1				
08	51202060	TUBE, EXTEND	1				
09	51202061	TUBE, RETRACT	1				
10 ^b	808645	5/16"X1-1/2" BOLT	1				
11 ^b	808881	CUSHION PLATE	1				
12 ^b	808880	CLAMP, CUSHION DBL	1				
14	814291	ADAP., -10ORM -8JICM STR	2				
15	51202055	CONTROL VALVE	1				
16	51202062	SNAP RING, INT 1.5"OD.	2				

-- ITEMS NOT SHOWN --

--	51202056	NYLON SLEEVE	1
		(used with items 6 and 7)	

a



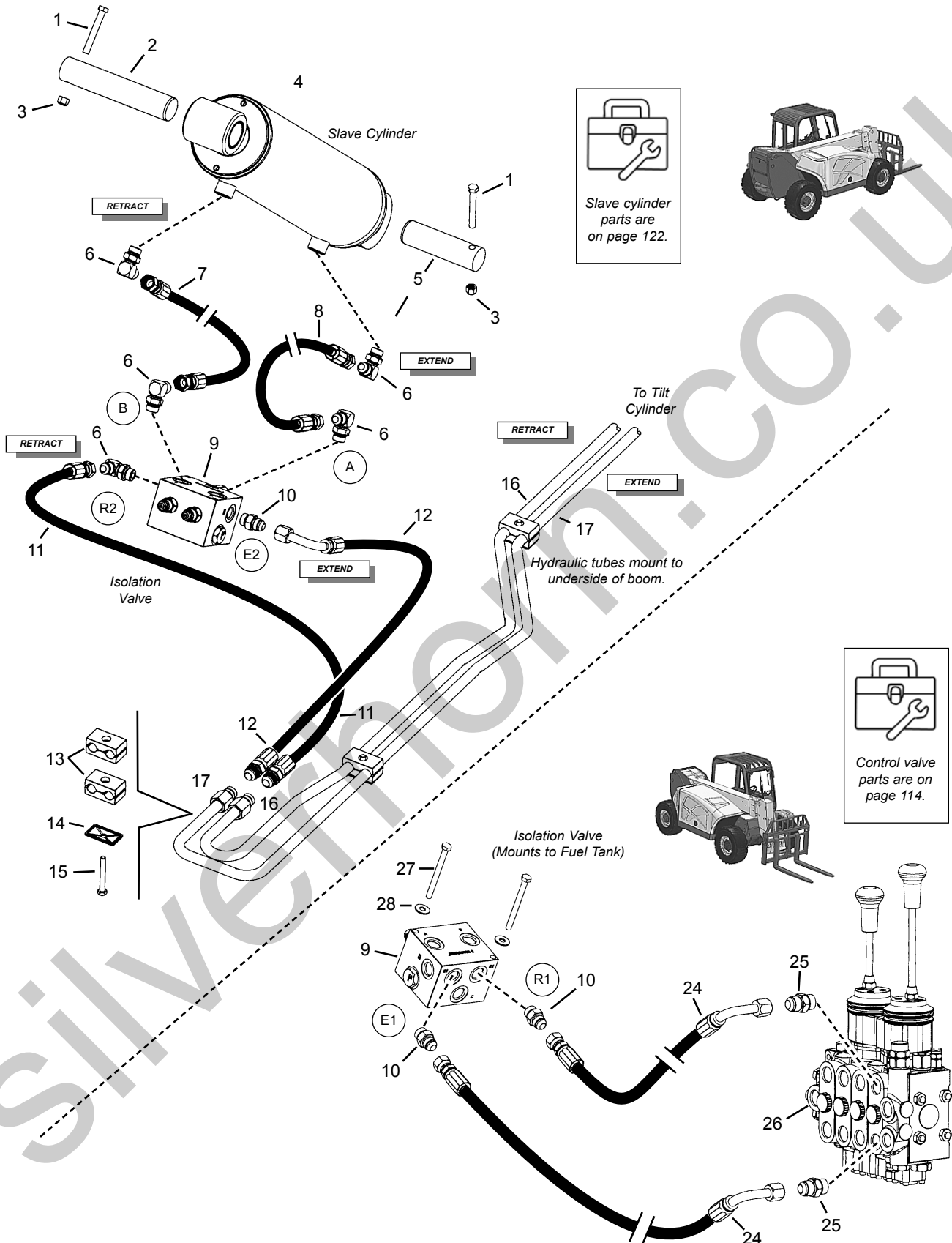
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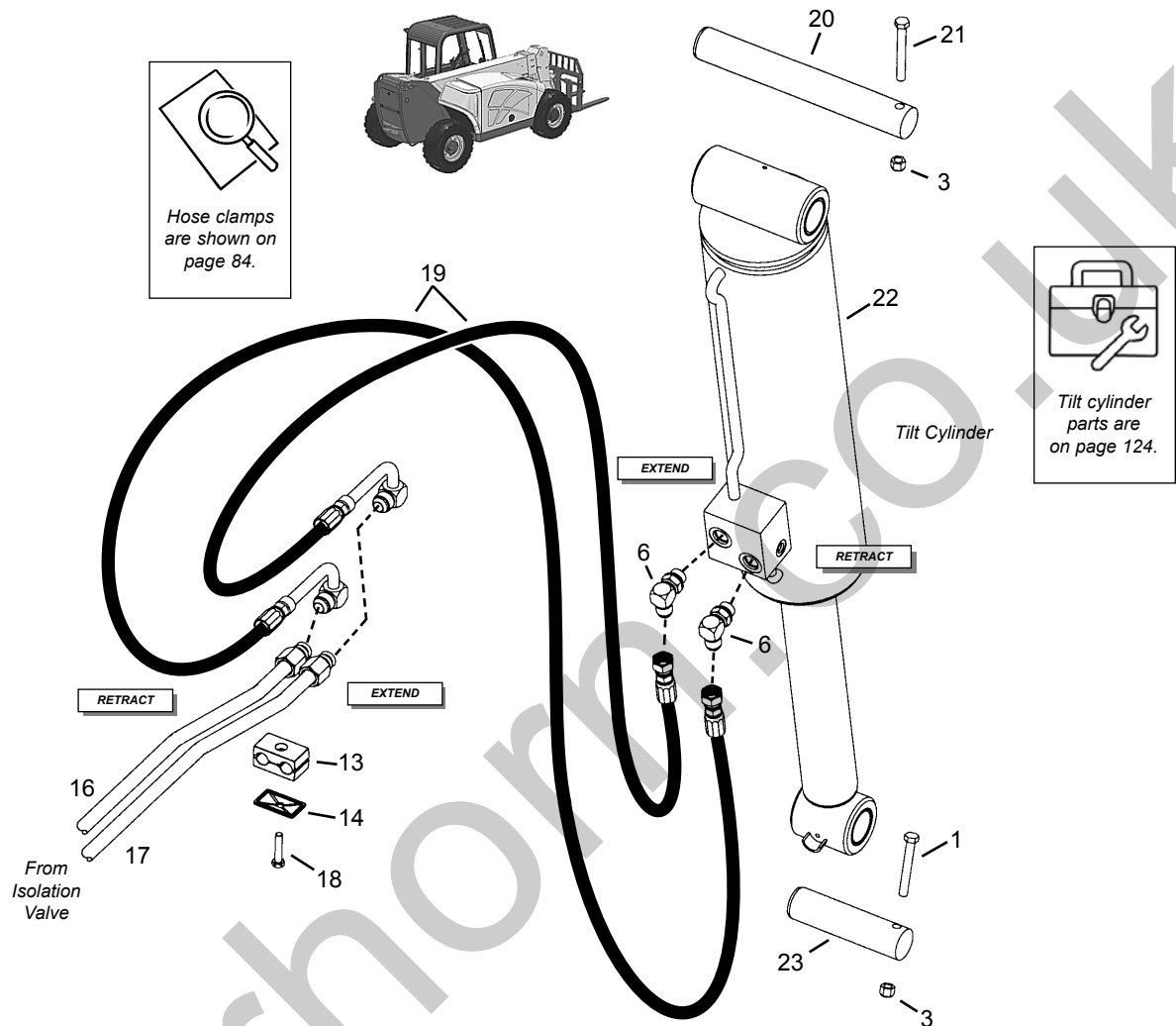
These components fasten to the left-rear outer boom and retain the hydraulic tubes: items 8 and 9.

Boom Hydraulics

Tilt / Slave Cylinder Group

MT 5519 Telescopic Handler





Ref. No.	Part No.	Description	Qty. Req.
01	51200400	3/8"X2-3/4" BOLT	3
02	51202039	PIN, SLAVE (rod end)	1
03	808663	3/8" NYLON INSERT NUT	AR
04	Note a	CYLINDER, SLAVE	1
05	51202064	PIN, SLAVE (base end)	1
06	814308	ADAP., -8ORM -8JICM 90°	AR
07	51202065	HOSE, -8 A8/A8 25"	1
08	51202065	HOSE, -8 A8/A8 25"	1
09	51202066	VALVE, SLAVE ISOLATION	1
10	813708	ADAP., -8ORM -8JICM STR	1
11	51202067	HOSE, -8 A8/H10 70"	1
12	51202068	HOSE, -8 DL8/H10 55"	1
13	808880	CUSHION, CLAMP	AR
14	808881	PLATE, CUSHION	AR
15	51200111	5/16"X2-1/3" BOLT	1
16	51202069	TUBE, TILT (retract)	1
17	51202070	TUBE, TILT (extend)	1
18	51200101	5/16"X1-1/2" BOLT	AR
19 ^b	51202071	HOSE, -6 A8/P-364 270" TWIN	1

Ref. No.	Part No.	Description	Qty. Req.
20	51202072	PIN, TILT (base end)	1
21	813711	3/8"X3" BOLT	1
22	Note a	CYLINDER, TILT	1
23	809531	PIN, TILT (rod end)	1
24	51202073	HOSE, -8 A8/DL8 54"	2
25	814291	ADAP., -10ORM -8JICM STR	2
26	51202055	CONTROL VALVE	1
27	51202074	5/16"x3-1/2" BOLT	2
28	813610	5/16" FLAT WASHER	2

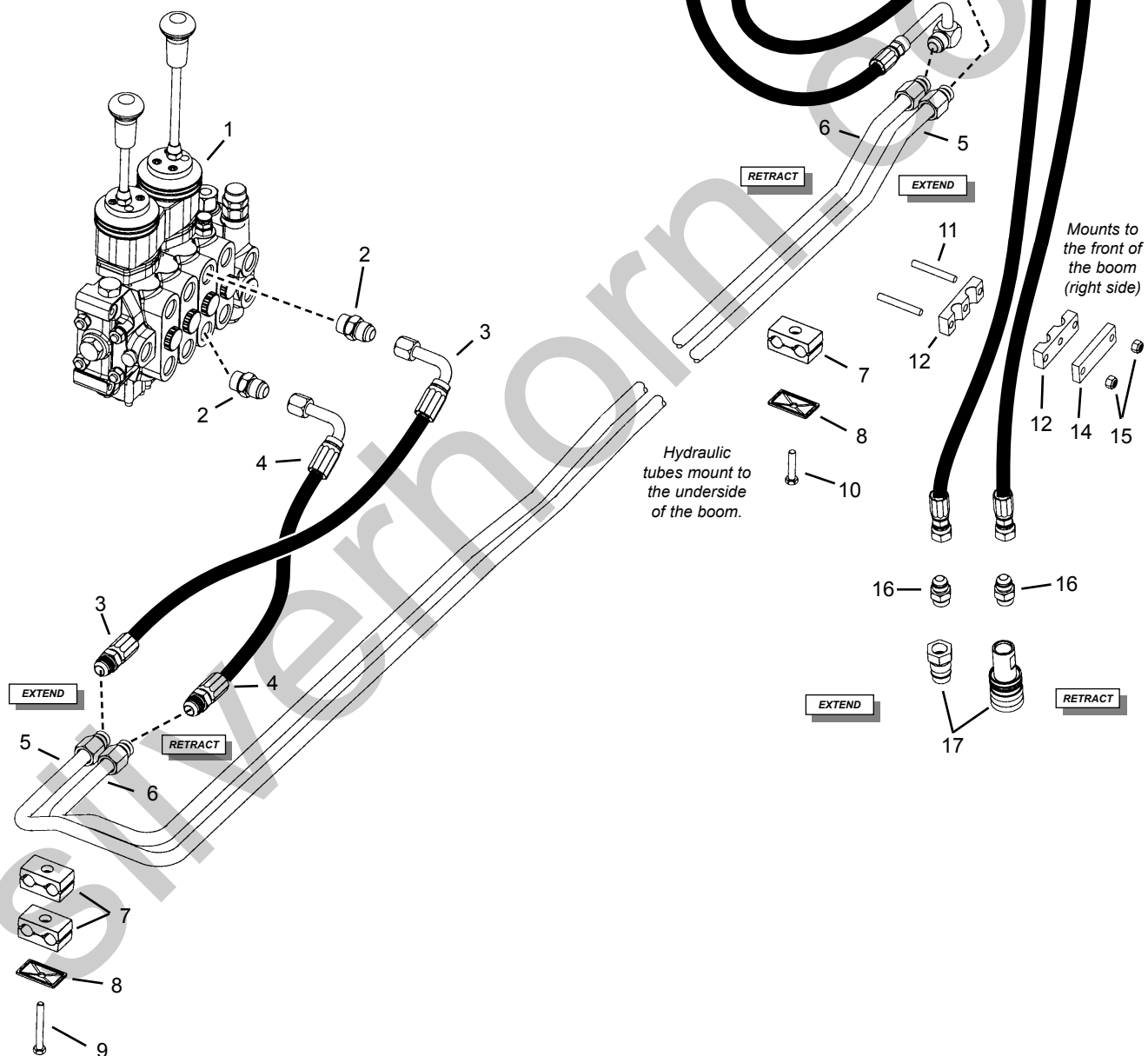
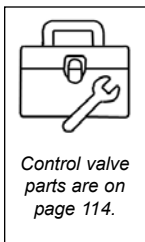
-- ITEMS NOT SHOWN --

--	51202056	NYLON SLEEVE	1
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(used with items 7 and 8)

a Refer to page 122 and 124 for cylinder information.

b Refer to page 84 for clamps to secure hose.



MT 5519 Telescopic Handler

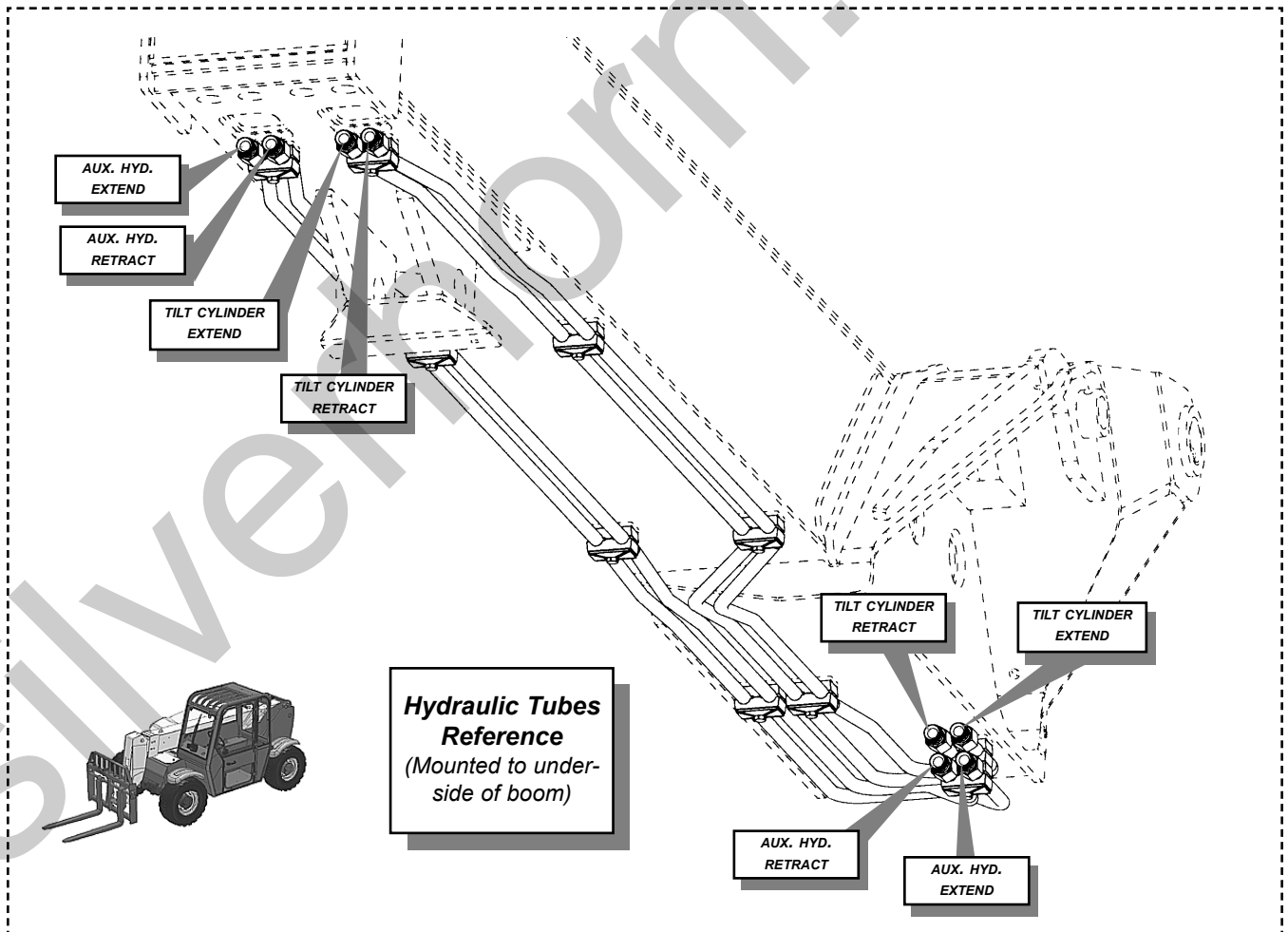
Boom Hydraulics Auxiliary Hydraulics Group

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51202055	CONTROL VALVE.....	1	14	808727	PLATE, CLAMP.....	2
02	814291	ADAP., -10ORM -8JICM STR.....	2	15	808662	5/16" NYLON INSERT NUT.....	4
03	51202075	HOSE, -8 DL8/H10 70".....	1	16	813708	ADAP., -8ORM -8JICM STR.....	2
04	51202075	HOSE, -8 DL8/H10 70".....	1	17	808796	COUPLER SET.....	1
05	51202076	TUBE, AUXILIARY.....	1				
06	51202077	TUBE, AUXILIARY.....	1				
07	808880	CUSHION, CLAMP.....	AR	--	51202056	NYLON SLEEVE.....	1
08	808881	PLATE, CUSHION.....	AR				
09	51200111	5/16"X2-1/3" BOLT.....	1				
10	51200101	5/16"X1-1/2" BOLT.....	AR				
11	809493	5/16"X2-1/4" STUD.....	4				
12	808832	CLAMP, TUBE.....	4				
13 ^a	51202078	HOSE, -6 A8/P-364 300" TWIN....	1				

-- ITEMS NOT SHOWN --

-- 51202056 NYLON SLEEVE..... 1
(used with items 3 and 4)

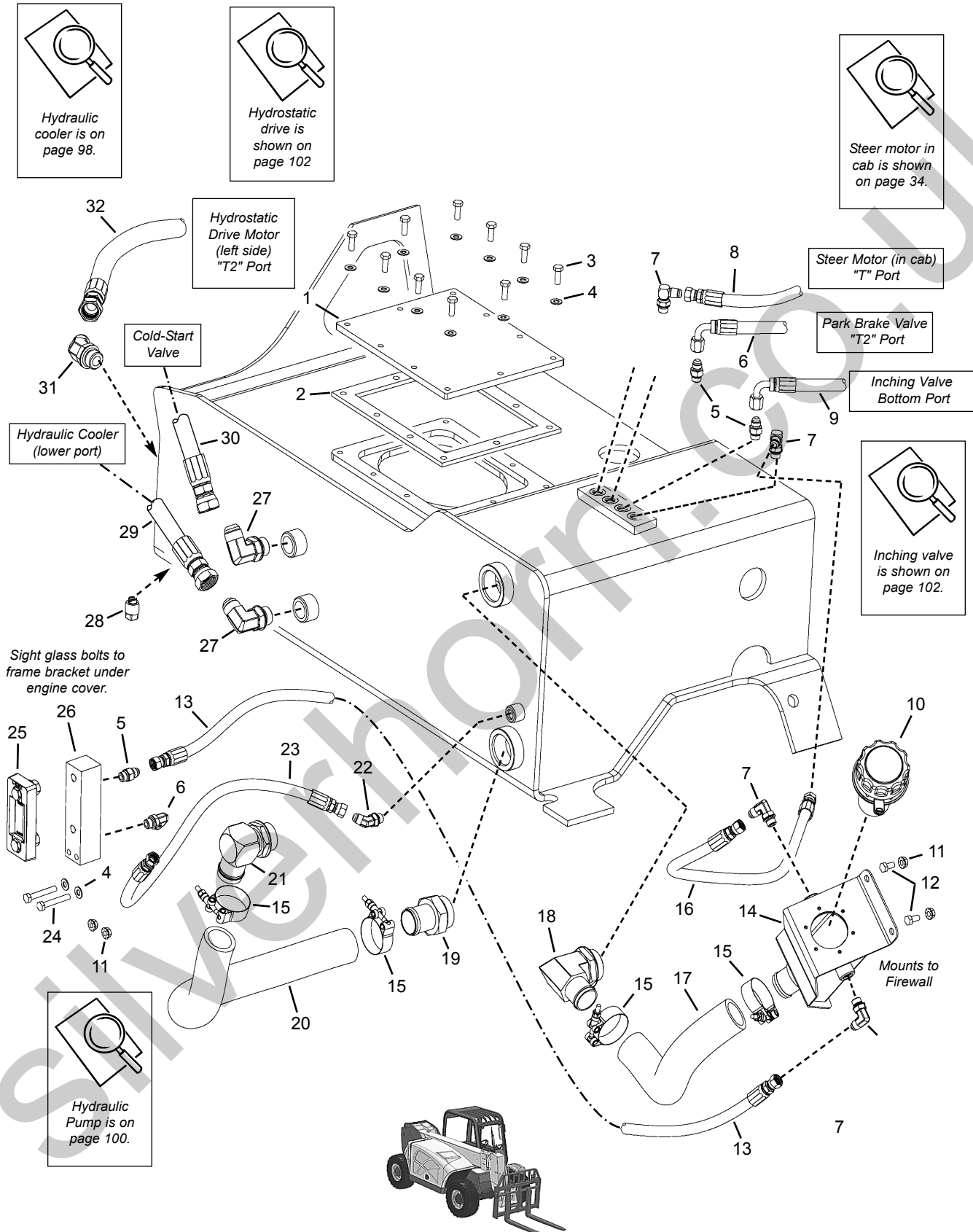
a Refer to page 84 for
clamps to secure hose.



Hydraulics

Hydraulic Tank Group

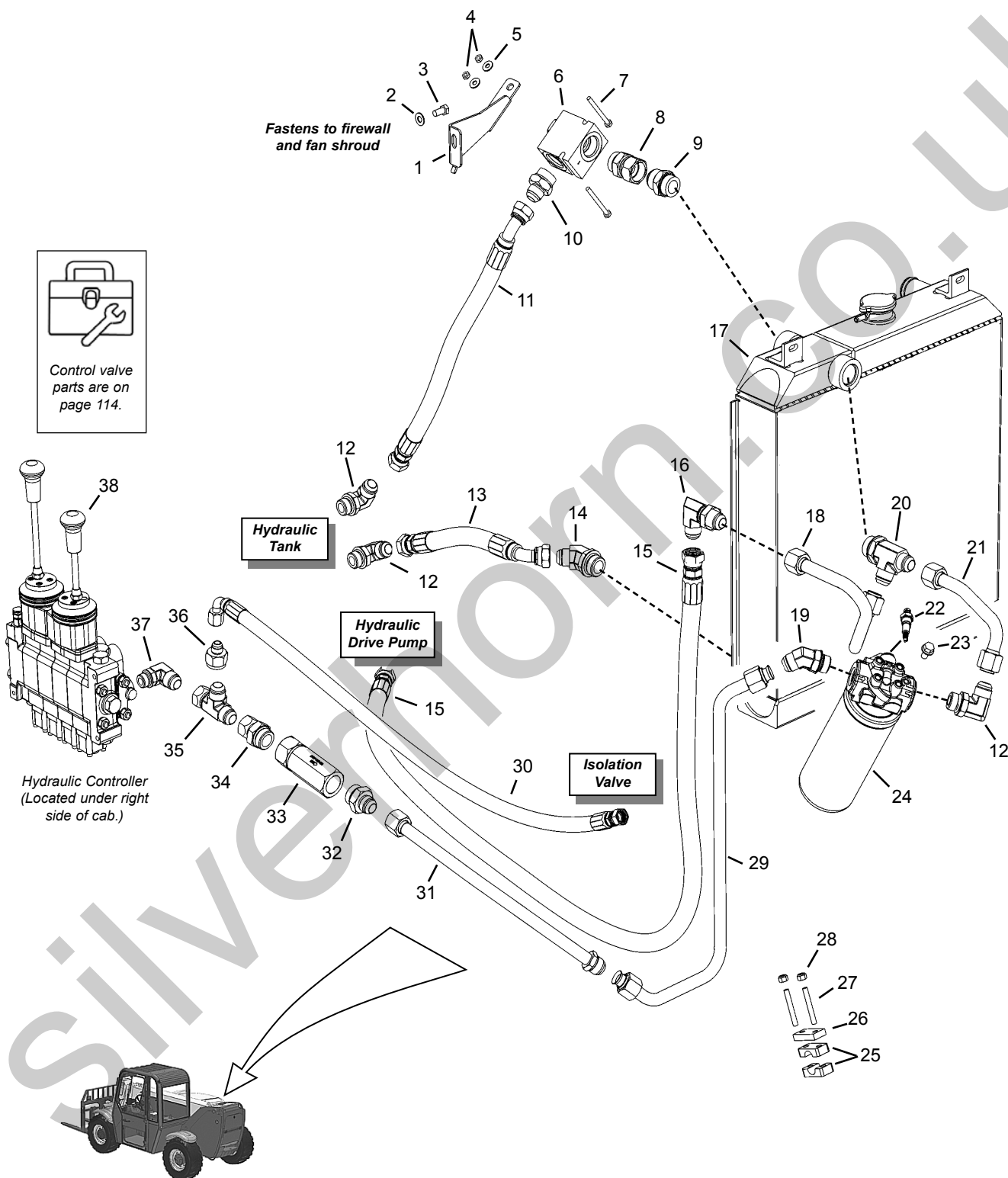
MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

Hydraulics Hydraulic Tank Group

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51202079	TANK COVER	1	16	51202083	HOSE, -6 A6/A6 24"	1
02	808789	GASKET, RUBBER	1	17	51202086	HOSE, 1-1/2" X 14-1/2"	1
03	51200547	CS 3/8" x 7/8" C5ZY	10	18	51202087	90 HB24-MAORB24	1
04	813657	FW 3/8" ZY	AR	19	51202088	ST HB24-MAORB24	1
05	813596	ST MJ06 MORB06	3	20	51202089	HOSE, 1-1/2" x 24"	1
06	51202080	HOSE, -6 A6/DM6 30"	1	21	51202090	90 HB24-MAORB20	1
		(refer to page 108, item 9)		22	51202091	45 MJ06-MAORB06	1
07	813597	90 MJ06-MAORB06	5	23	51202083	HOSE, -6 A6/A6 24"	1
08	51202081	HOSE, -6 A6/DM8 34"	1	24	813712	CS 5/16" x 2" C5ZY	2
		(refer to page 107, item 14)		25	51202092	FLUID LEVEL SIGHT GAUGE	1
09	51202082	HOSE, -6 A6/DM6 24"	1	26	51202093	MANIFOLD, TANK LEVEL	1
		(refer to page 103, item 16)		27	813664	90 MJ12-MAORB12	2
10	809829	FILLER/CAP W/LOCK TAB	1	28	813678	PLUG, 1/2-14 MAGNETIC	1
	813667	GASKET, CAP (not shown)	1	29	50380258	HOSE, -12 A12/45S12 14-1/2"	1
	809660	GASKET, FILL NECK (not shown) .	2			(refer to page 99, item 13)	
11	808555	FLN 5/16"	4	30	50380252	HOSE, -12 A12/45S12 23"	1
12	814206	CS 5/16 x 5/8 C5ZY	2			(refer to page 99, item 11)	
13	51202083	HOSE, -6 A6/A6 24"	1	31	813839	45 MJ12-MAORB12	1
14	51202084	HYDRAULIC FILL WELDMENT ...	1	32	51202094	HOSE, -12 A12/DS12 86"	1
15	51202085	CLAMP, T-BOLT 2"	4			(refer to page 103, item 19)	



MT 5519 Telescopic Handler

Hydraulics

Hydraulic Circuit - Cooler and Filter

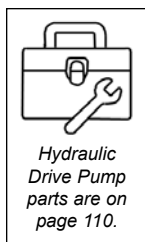
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380212	VALVE MOUNT	1	22	51202099	SWITCH, FILTER RESTRICTION..	1
02	813657	FW 3/8 ANZY.....	1			(included with item #24)	
03	813677	CS 3/8 x 3/4 C5ZY	1	23	51202100	CS FL LOCK 3/8 x 5/8 C5ZY	4
04	51200651	HLN INST 1/4 CZY	2		51200747	LW INTERNAL 3/8 AZY.....	1
05	809181	FW 1/4 AWZY	2			(use one tooth washer for grounding)	
06	51202095	CHECK VALVE (cold start by-pass)	1	24 ^a	51202101	HYDRAULIC FILTER ASSEMBLY. .	1
07	51202096	CS 1/4 x 2-3/4 C5ZY.....	2		51200177	FILTER ELEMENT (only)	1
08	813749	ST MORB16-FJS16.....	1	25	814414	CUSHION, TUBE 3/4".....	2
09	814495	ST MJ16-MORB16	1	26	814322	CUSHION PLATE	1
10	813844	ST MJ12-MORB16	1	27	809493	STUD, 5/16" x 2-1/4" GR5.....	2
11	50380252	HOSE, -12 A12/45S12 23"	1	28	808662	NYLON INSERT NUT, 5/16"	2
12	813664	90 MJ12-MAORB12	3	29	50380120	TUBE, RETURN OIL	1
13	50380258	HOSE, -12 A12/45S12 14-1/2"	1	30	808295	HOSE, -8 A8/DM8 46".....	1
14	51200570	45 MJ12-MAORB16	1	31	50380250	TUBE, RETURN OIL	1
15	51202097	HOSE, -12 A12/A12 68"	1	32	808779	ST MJ12 MORB16	1
16	814394	90 BLKHD MJ12-MJ12	1	33	51202102	CHECK VALVE, 65 PSI.....	1
17	51200849	RADIATOR/COOLER ASY.	1	34	51202103	ST MORB16-FJS12.....	1
18	50380133	TUBE, CHARGE OIL.....	1	35	51200410	TEE MJ12-FJS12-MJ12	1
19	813839	45 MJ12-MAORB12	1	36	51202104	ST JICF12-JICM8	1
20	51202098	TEE RUN MJ12-MAORB16-MJ12. .	1	37	51202105	90 MJ12-MAORB10	1
21	50380125	TUBE, FILTER-COOLER.....	1	38	51202055	CONTROL VALVE (joysticks).....	1

^a Includes filter element (PN 51200177) and filter restriction switch—item #22.

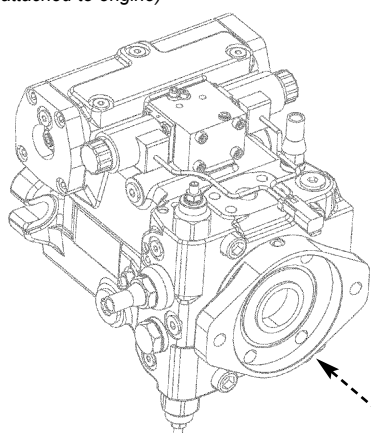
Hydraulics

Hydraulic Circuit - Hydraulic Pump

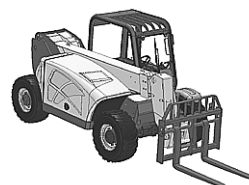
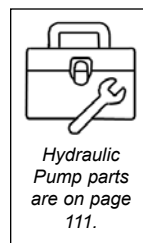
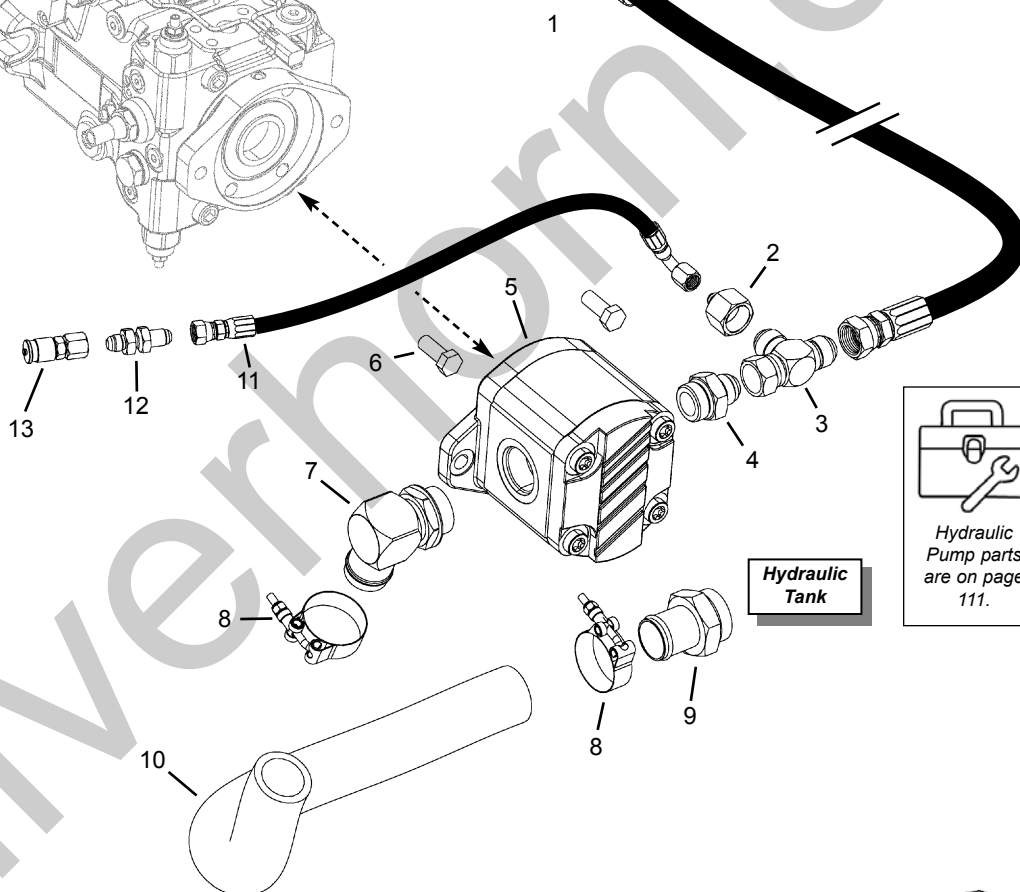
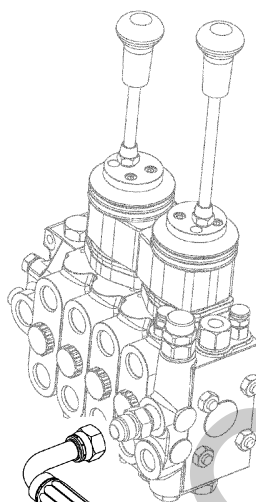
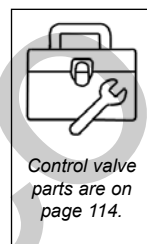
MT 5519 Telescopic Handler



Hydraulic Drive Pump
(attached to engine)



Control Valve
(inside cab)



MT 5519 Telescopic Handler

Hydraulics

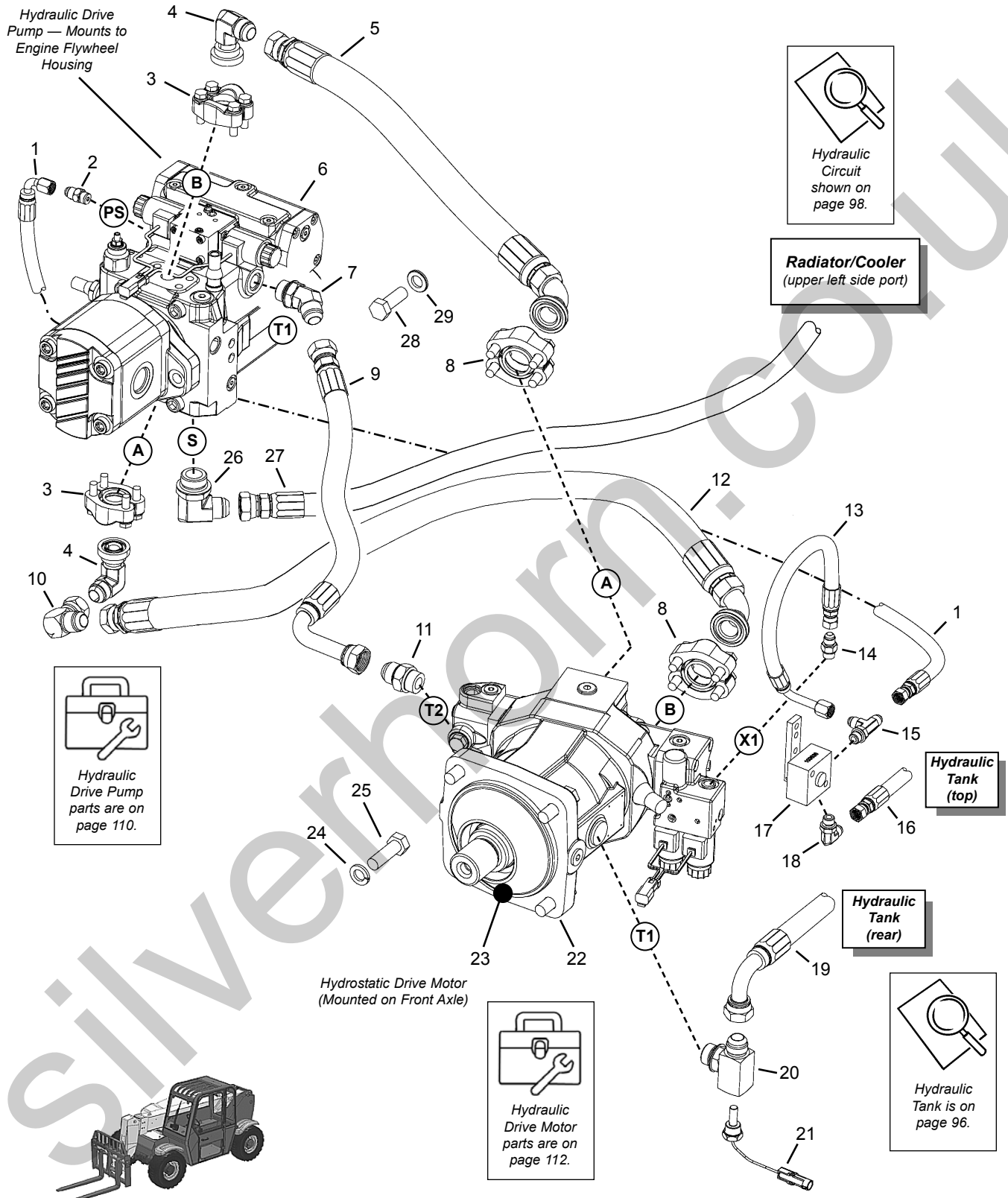
Hydraulic Circuit - Hydraulic Pump

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51202106	HOSE, -10 A12/DL10 40"	1	06	813338	CS 1/2x1-1/4 C5ZY	2
02	51202107	REDUCER, FJ12-MJ06	1	07	51202090	90 HB24-MAORB20	1
03	51200410	ADAP., -12JIC SWIVEL	1	08	51202085	CLAMP, T-BOLT 2"	2
04	813844	ST MJ12 MORB16	1	09	51202088	ST HB24-MAORB24	1
05	51202108	HYDRAULIC PUMP	1	10	51202089	HOSE, 1-1/2" x 24" 100R4	1
		(Refer to hydraulic components		11	50380253	HOSE, -4 A6/DS6 11"	1
		pages for seals, gaskets, and		12	51200779	ST BLKHD MJ06-MJ06	1
		o-rings.)		13	51200778	TEST PORT, -6JICF	1

Hydraulics

MT 5519 Telescopic Handler

Hydraulic Drive Pump and Hydrostatic Motor



MT 5519 Telescopic Handler

Hydraulics

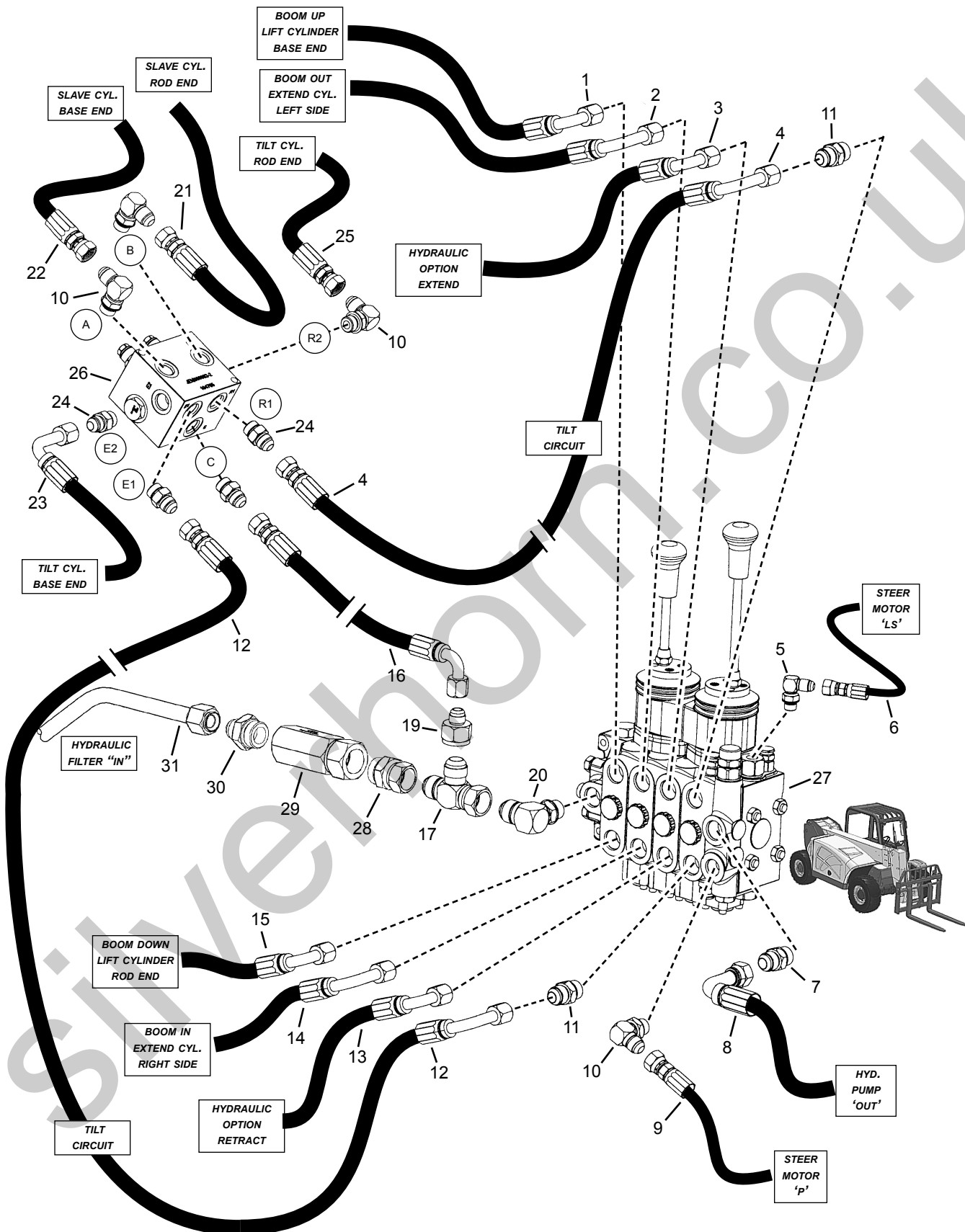
Hydraulic Drive Pump and Hydrostatic Motor

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51202109	HOSE, -6 A6/DL6 54"	1	17	51200710	INCHING VALVE	1
02	813596	ST MJ06 MOR5B	1	18	813597	90 MJ06-MAORB06	1
03	51202110	SPLIT FLANGE KIT, C62-12	2	19	51202094	HOSE, -12 A12/DS12 86"	1
04	51202111	90 MJ12-C62-12	2			(drive motor to rear of hydraulic tank)	
05	50380170	HOSE, -16 A12 C62-16 22.9"	1	20	51202114	ADAP., HYD. TEMP. SWITCH.	1
06	51202112	HYDRAULIC DRIVE ASSEMBLY	1	21	51202115	TEMPERATURE SWITCH.	1
07	813839	45 MJ12 MAORB12	1	22	51202116	MOTOR, HYDROSTATIC DRIVE	1
08	51202113	SPLIT FLANGE KIT, C62-16	2	23	51200940	O-RING (drive motor to front axle)	1
09	50380257	HOSE, -12 A12/DL12 23"	1	24	51202117	LW M16 ZY DIN127	4
10	813704	90 MJ12 FJS12	1	25	51202118	CS M16-2x50 C8.8 ZY DIN931	4
11	814326	ST MJ12-MORB12	1	26	813746	90 MJ12-MAORB16	1
12	50380170	HOSE, -16 A16 C62-16 22.9"	1	27	51202097	HOSE, -12 A12/A12 68"	1
13	50380255	HOSE, -6 A6/DL6 18"	1			(refer to page 99, item 15)	
14	813596	ST MJ06-MORB06	1	28	51202119	CS 5/8" x 1-3/4" C5ZY	2
15	814469	TEE RUN MJ06-MAORB06-MJ06	1	29	51202120	FW M16 (hardened)	2
16	51202082	HOSE, -6 A6/DM6 24"	1				

Hydraulics

Control and Isolation Valves

MT 5519 Telescopic Handler



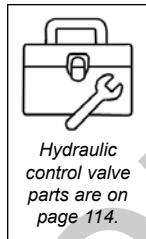
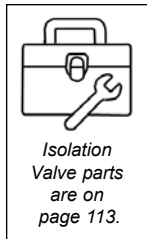
MT 5519 Telescopic Handler

Hydraulics

Control and Isolation Valves

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51202054	HOSE, -8 A8/DM8 97"	1	25	51202067	HOSE, -8 A8/H10 70"	1
02	51202059	HOSE, -8 H10/DL8 68"	1	26	51202066	VALVE, SLAVE ISOLATION	1
03 ^a	51202075	HOSE, -8 H10/DM8 70"	1		809743	5/16"X3-1/2" BOLT	2
04	51202073	HOSE, -8 A8/DL8 54"	1		813610	5/16" FLAT WASHER	2
05	813597	ADAP., -6ORM -6JICM 90°	1	27	51202055	VALVE, CONTROL	1
06	51202121	HOSE, -4 A4/A6 36"	1		51200111	5/16"X2-1/2" BOLT	2
07	814291	ADAP., -10ORM -10JICM STR	1		808555	5/16" WHIZ NUT	2
08	51202106	HOSE, -10 A12/DL10 40"	1		51200863	M8X20 8.8 BOLT	1
09	51202122	HOSE, -6 A8/DM8 36"	1		813610	5/16" FLAT WASHER	1
10	814308	ADAP., -8ORM -8JICM 90°	5	28	51202103	ST MORB16-FJS12	1
11	814452	ADAP., -10ORM -8JICM STR	AR	29	51202102	CHECK VALVE, 65 PSI	1
12	51202073	HOSE, -8 A8/DL8 54"	1	30	813844	ST MJ12 MORB16	1
13 ^a	51202075	HOSE, -8 H10/DM8 70"	1	31	50380250	TUBE, RETURN OIL	1
14	51202059	HOSE, -8 H10/DL8 68"	1			(refer to page 99, item 31)	
15	51202054	HOSE, -8 A8/DM8 97"	1			-- ITEMS NOT SHOWN --	
16	808295	HOSE, -8 A8/DM8 46"	1			(Hose Protection Sleeve)	
17	51200410	ADAP., -12 SWVL. RUN TEE	1	--	51202056	SLEEVE, HOSE (4' long)	4
19	51202104	ADAP., -12JICFS -8JICM STR	1				
20	51202105	ADAP., -10ORM -12JICM 90°	1				
21	51202065	HOSE, -8 A8/A8 25"	1				
22	51202065	HOSE, -8 A8/A8 25"	1				
23	51202068	HOSE, -8 DL8/H10 55"	1				
24	813708	ADAP., -8ORM -8JICM STR	AR				

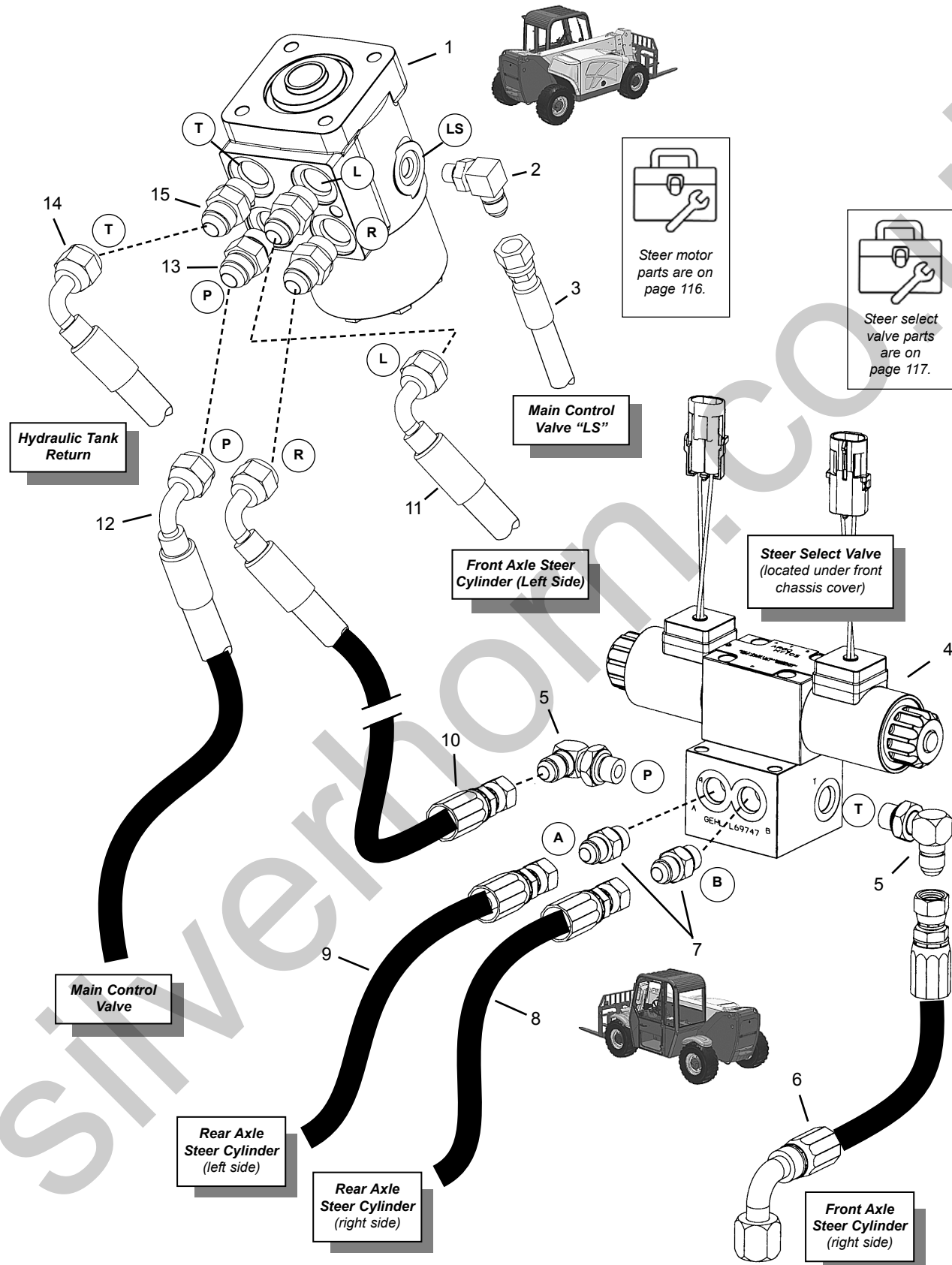
^a When the unit is not equipped with auxiliary hydraulic option, use P/N 51202124 ADAP., -8 Cap.



Hydraulics

Steer Motor and Steer Select Valve

MT 5519 Telescopic Handler

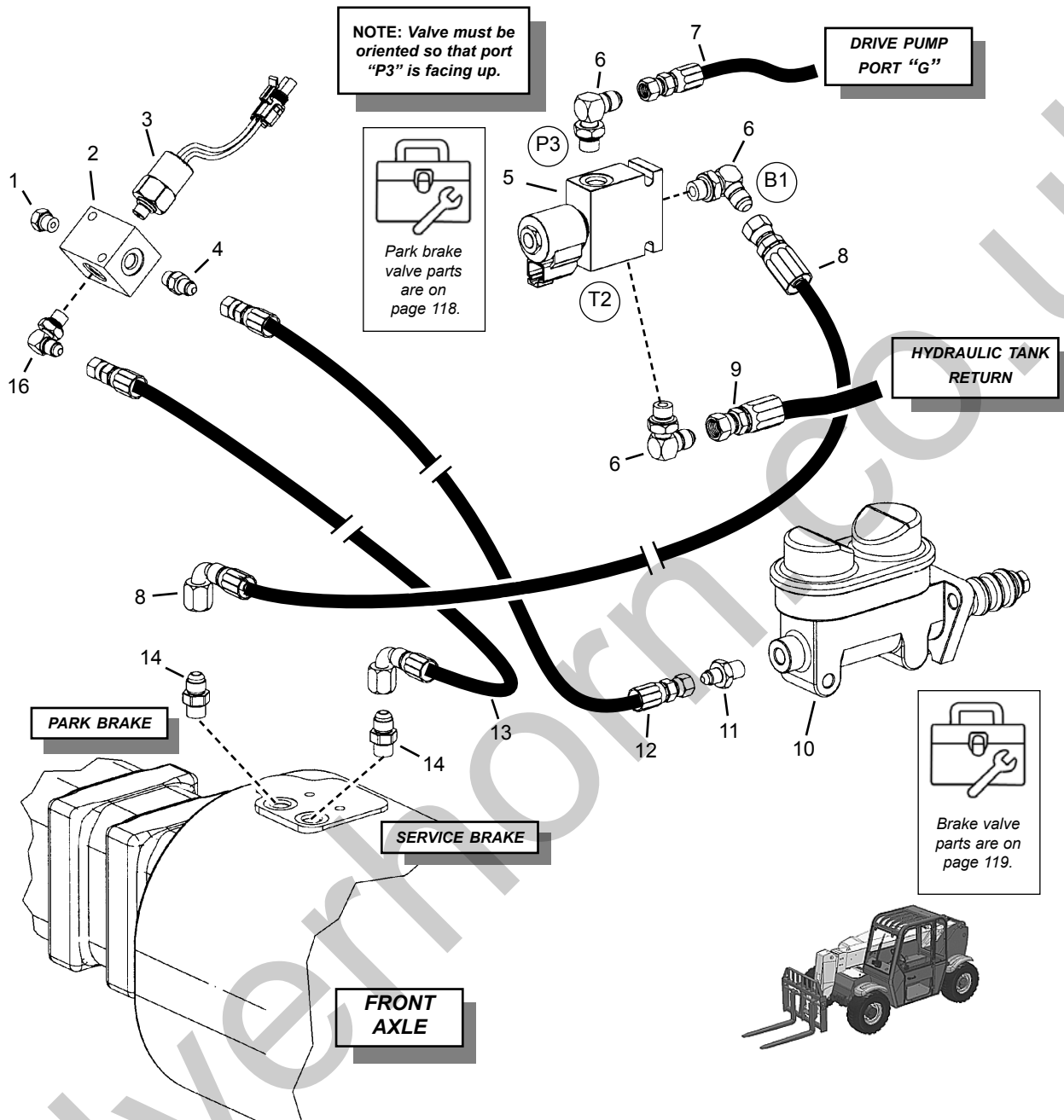


MT 5519 Telescopic Handler

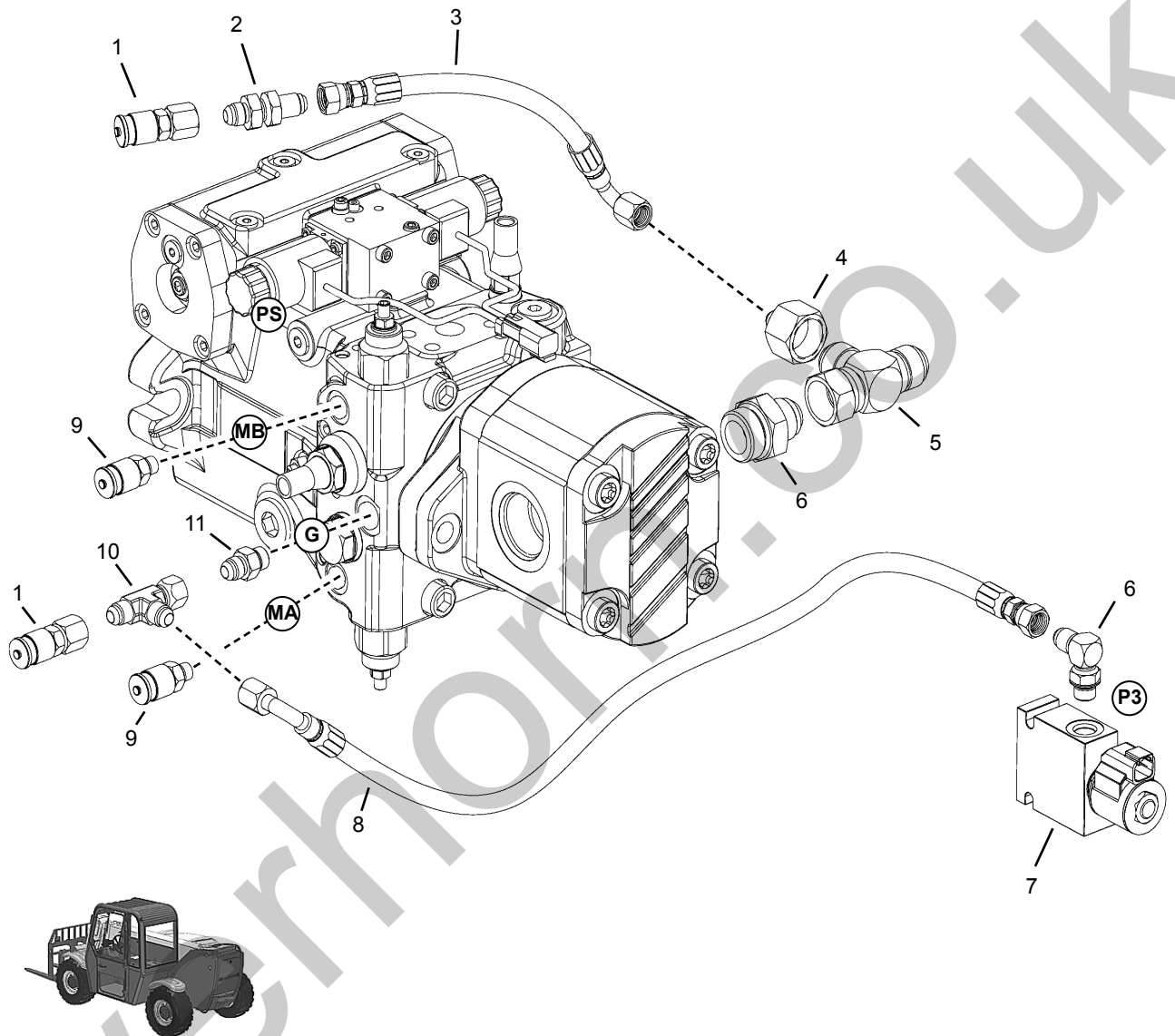
Hydraulics

Steer Motor and Steer Select Valve

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200702	MOTOR, STEER.....	1	10	51202126	HOSE, -6 A6/DM8 40".....	1
02	813550	ADAP, -4ORM -4JICM 90°.....	1	11	51202127	HOSE, -6 A8/DM8 32".....	1
03	51202121	HOSE, -4 A4/A6 36".....	1	12	51202122	HOSE, -6 A8/DS8 36".....	1
04	808877	VALVE, STEER SELECT.....	1	13	808763	VALVE, CHECK, -8ORM.....	1
	808627	1/4"X3" BOLT.....	2	14	51202081	HOSE, -6 A6/DM8 34".....	1
	808545	1/4" WHIZ LOCK NUT.....	2	15	813708	ADAP, -8ORM -8JICM STR.....	3
05	813597	ADAP, -6ORM -6JICM 90°.....	2	-- ITEMS NOT SHOWN --			
06	51202125	HOSE, -6 A6/DM8 20".....	1	(steer cylinders on front and rear axle)			
07	813596	ADAP, -6ORM -6JICM STR.....	2	--	808076	ADAP, M18ORM -8JICM STR.....	4
08	51202128	HOSE, -6 A6/A8 106".....	1				
09	51202128	HOSE, -6 A6/A8 106".....	1				



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	814300	PLUG, -4ORM SAE	1	07	51202130	HOSE, -4 A6/DM6 36"	1
02	808905	MANIFOLD, BRAKE	1	08	51202080	HOSE, -6 A6/DS6 30"	1
	51202133	1/4"X1-3/4" BOLT	2	09	51202080	HOSE, -6 A6/DM6 30"	1
	808589	1/4" LOCK WASHER	2	10	808714	VALVE, MASTER CYLINDER	1
03	809790	SWITCH, PRESSURE 150 PSI	1	11	808703	ADAP, HYDROMAX -4JICM STR	1
04	814479	ADAP, -4ORM -4JICM STR	1	12	51200091	HOSE, -4 A4/A4 18"	1
05	51202129	PARKING BRAKE VALVE	1	13	51202131	HOSE, -4 A4/DS6 16"	1
	809112	1/4"X1-1/2" BOLT	2	14	808804	ADAP, M14X1.50RM -6JICM	2
	809181	1/4" FLAT WASHER	2	16	813550	ADAP, -4ORM -4JICM 90°	1
06	813597	ADAP, -6ORM -6JICM 90°	3	17	51202132	HOSE, -6 A6/DM6 54"	1

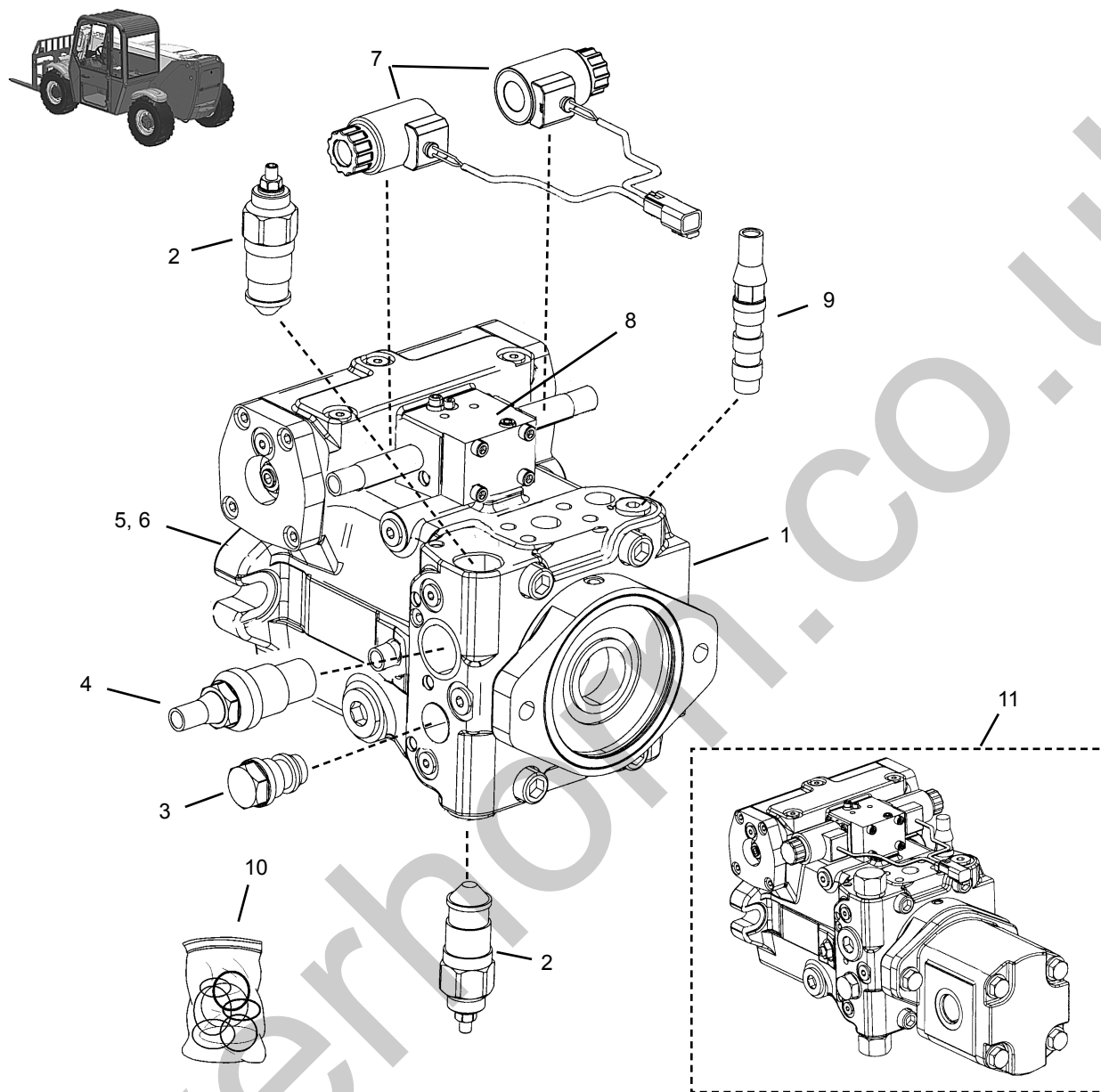


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51200778	TEST PORT, -6JICF	2	07	51202129	VALVE, PARK BRAKE.....	1
02	51200779	ST BLKHD MJ06-MJ06.....	1	08	51202130	HOSE, -4 A6/DM6 36".....	1
03	50380253	HOSE, -4 A6/DS6 11"	1	09	51202134	TEST PORT, STAUFF20 -4ORB...	2
04	51202107	REDUCER, F12-JICM06.....	1	10	814461	SWVL TEE -6	1
05	51200410	SWVL TEE -12	1	11	813596	ST JICM06-MORB06.....	1
06	813597	90 JICM06-ORB06	1				

Hydraulic Components

Hydraulic Drive Pump

MT 5519 Telescopic Handler

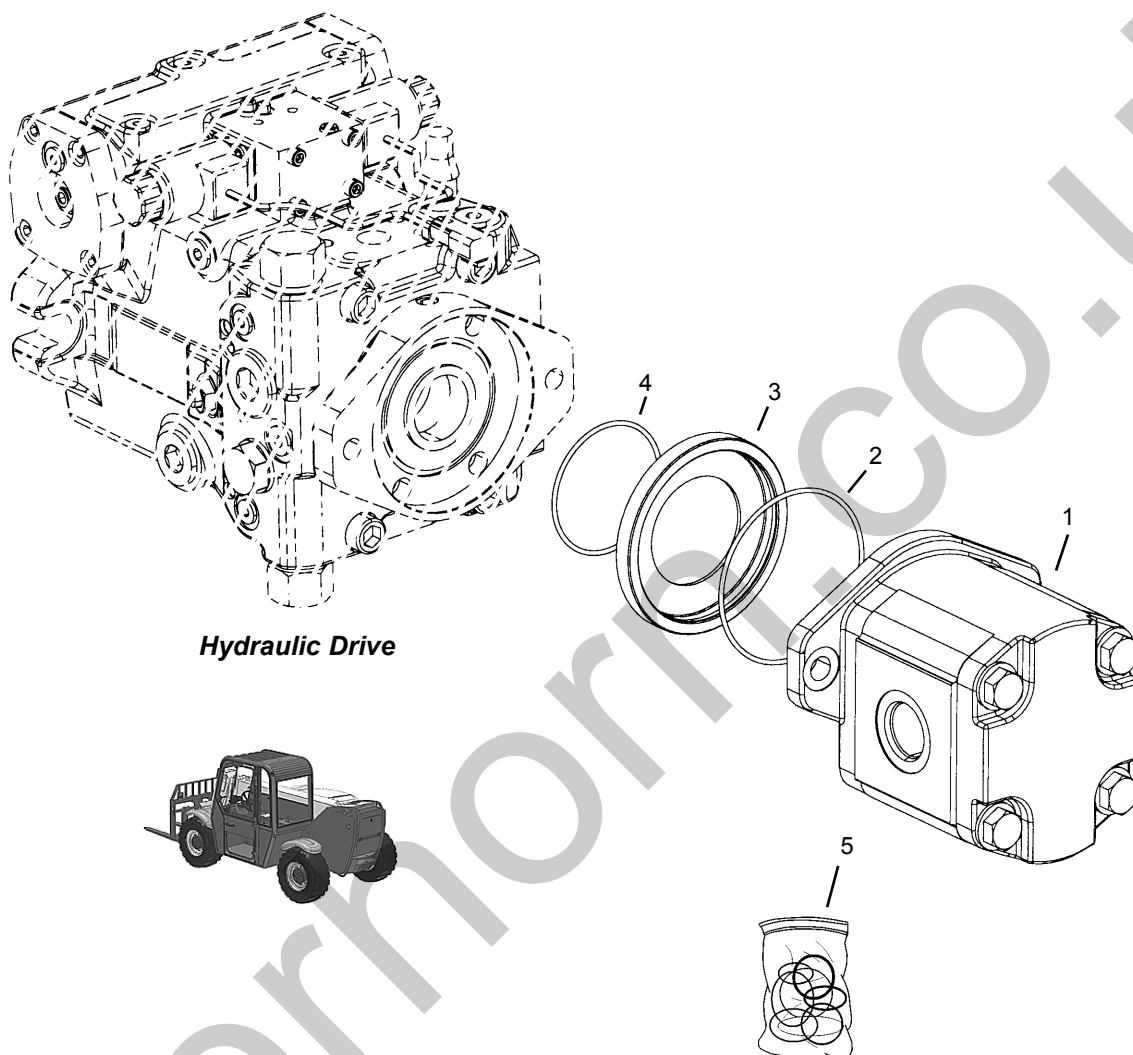


Ref. No.	Part No.	Description	Qty. Req.
01a	NSS	HYDRAULIC DRIVE PUMP	1
02b	51202135	PRESSURE RELIEF VALVE	2
03b	51202136	PRESSURE RELIEF VALVE	1
04b	51202137	CONTROL VALVE	1
05	51202138	RETAINING RING	1
06	51202139	SHAFT SEAL RING	1
07	51202140	PAIR/SWITCHING SOLENOIDS	1
08b	51202141	4/3-WAY DIRECTIONAL VALVE	1
		(includes item 7)	
09b	51202142	PRESSURE OVERRIDE VALVE	1

Ref. No.	Part No.	Description	Qty. Req.
10	51202143	SEAL KIT / COMPLETE	1
11	51202112	HYDRAULIC DRIVE ASSEMBLY	1

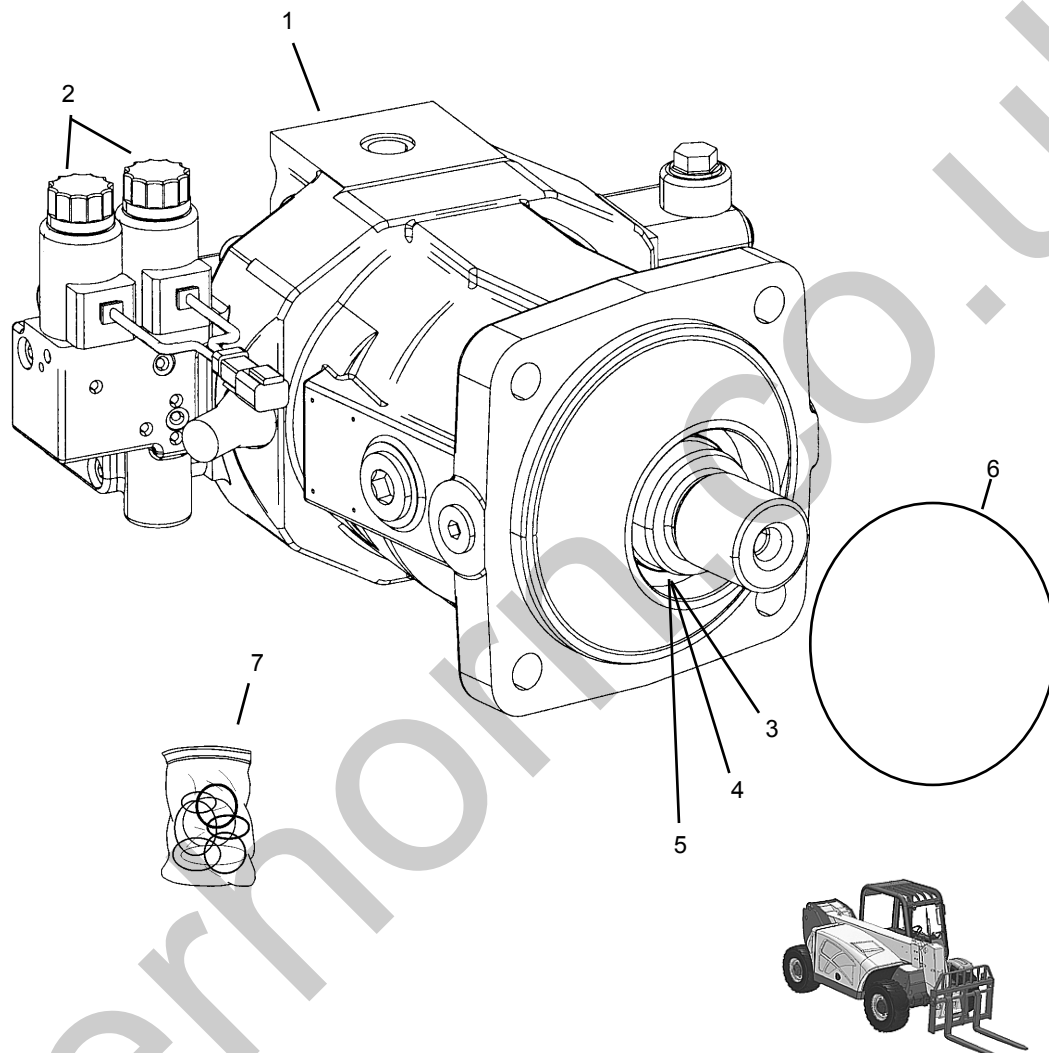
a Order item #11 hydraulic drive assembly, which includes hydraulic pump P/N 51202108

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.



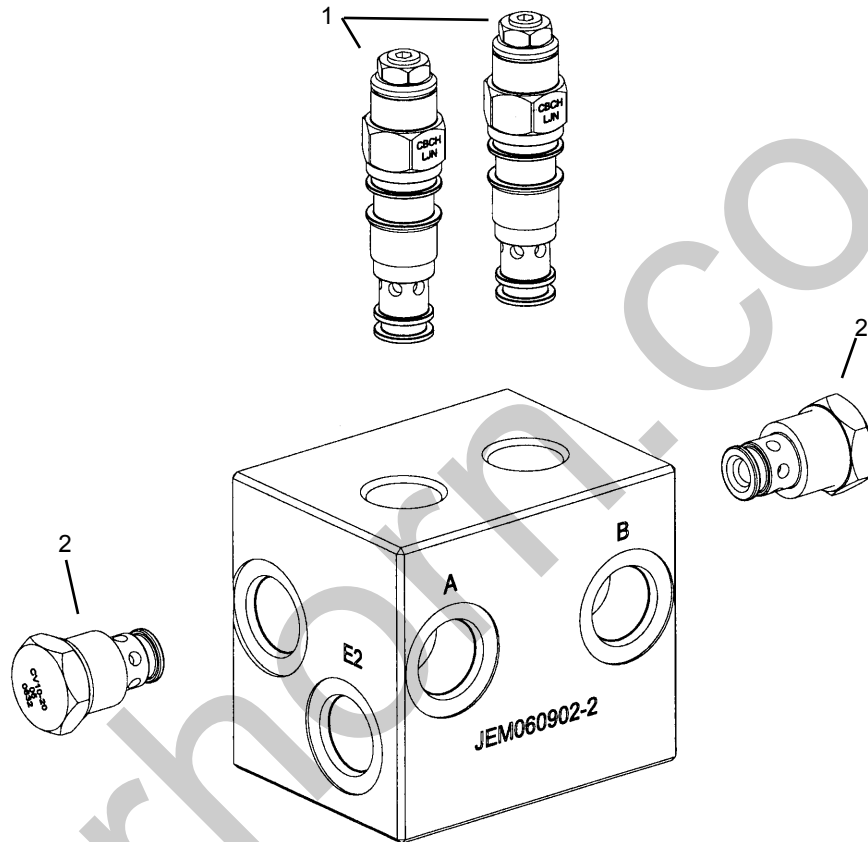
Ref. No.	Part No.	Description	Qty. Req.
01 ^a	51202108	HYDRAULIC PUMP	1
02	51202144	O-RING	1
03	51202145	SPACER	1
04	51202146	O-RING	1

Ref. No.	Part No.	Description	Qty. Req.
05	51202147	SEAL KIT	1
		(individual seals not shown)	
a		Included with hydraulic drive assembly.	

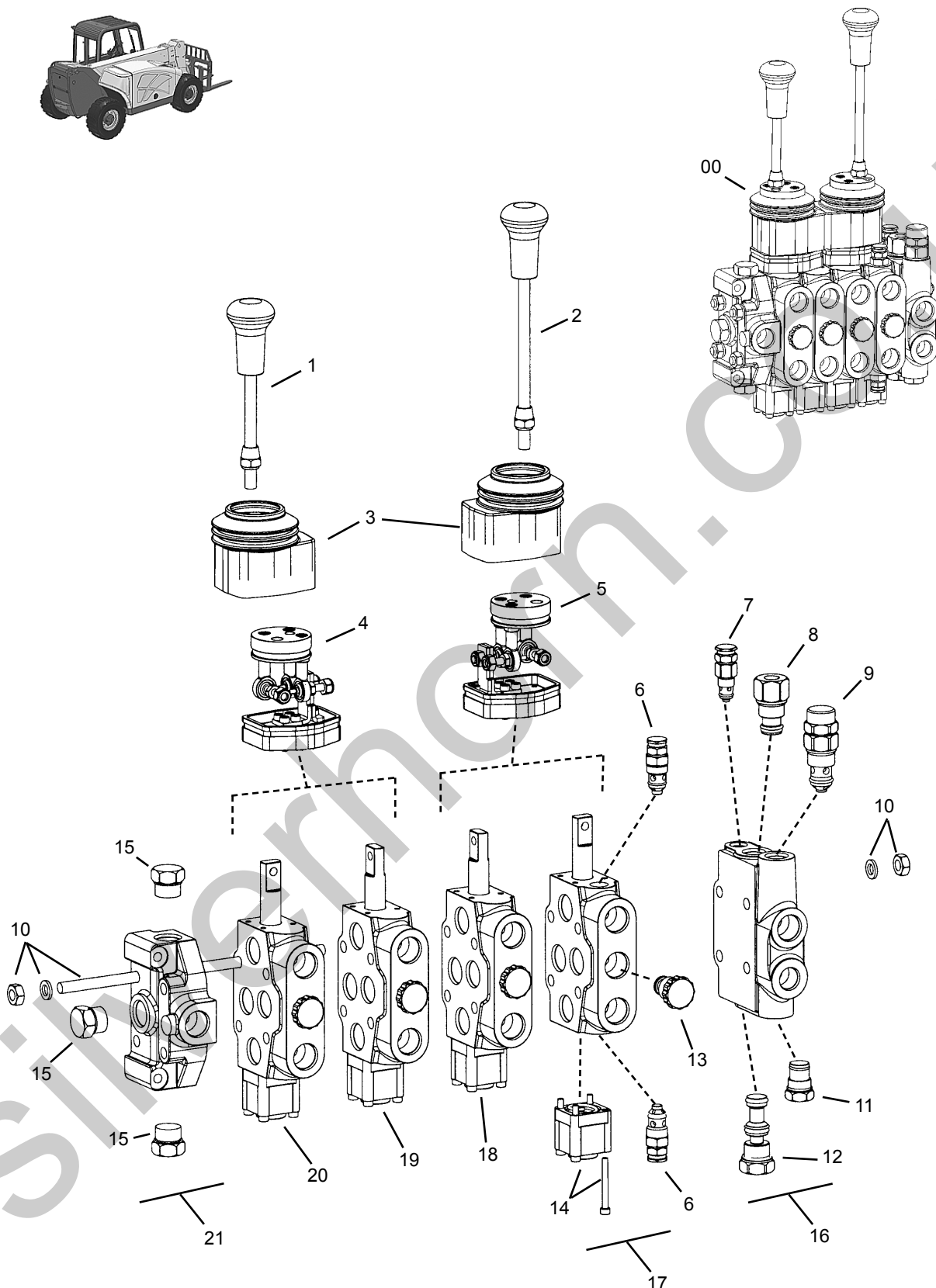


Ref. No.	Part No.	Description	Qty. Req.
01	51202116	HYDRAULIC DRIVE MOTOR1 (includes all items shown)	
02	51202140	SOLENOID SET (pair)1	
03	51202148	RETAINING RING1	
04	51202149	SHAFT SEAL RING1	
05	51202150	BACKUP PLATE1	

Ref. No.	Part No.	Description	Qty. Req.
06	51200940	O-RING (drive motor to axle)1 (included with front axle, not included with item7.)	
07	51202151	SEAL KIT, COMPLETE1 (includes items 3-5 and all other seals for drive motor [not shown])	

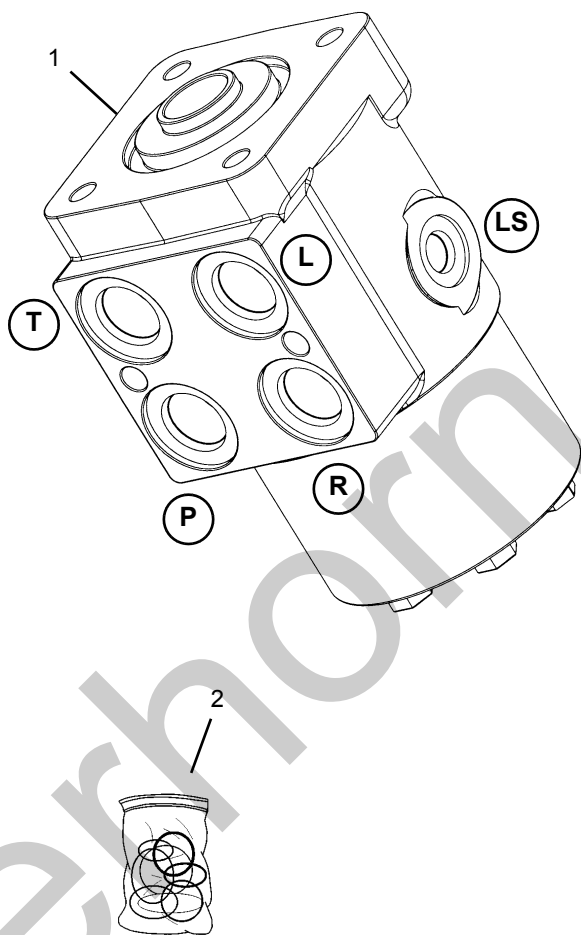


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
--	51202066	ISOLATION MANIFOLD 1 (includes all parts shown)		01	51202152	COUNTER BALANCE VALVE 2	
					808955	SEAL KIT FOR CB VALVE AR	
				02	51202153	CHECK VALVE 2	
					809154	SEAL KIT 1	



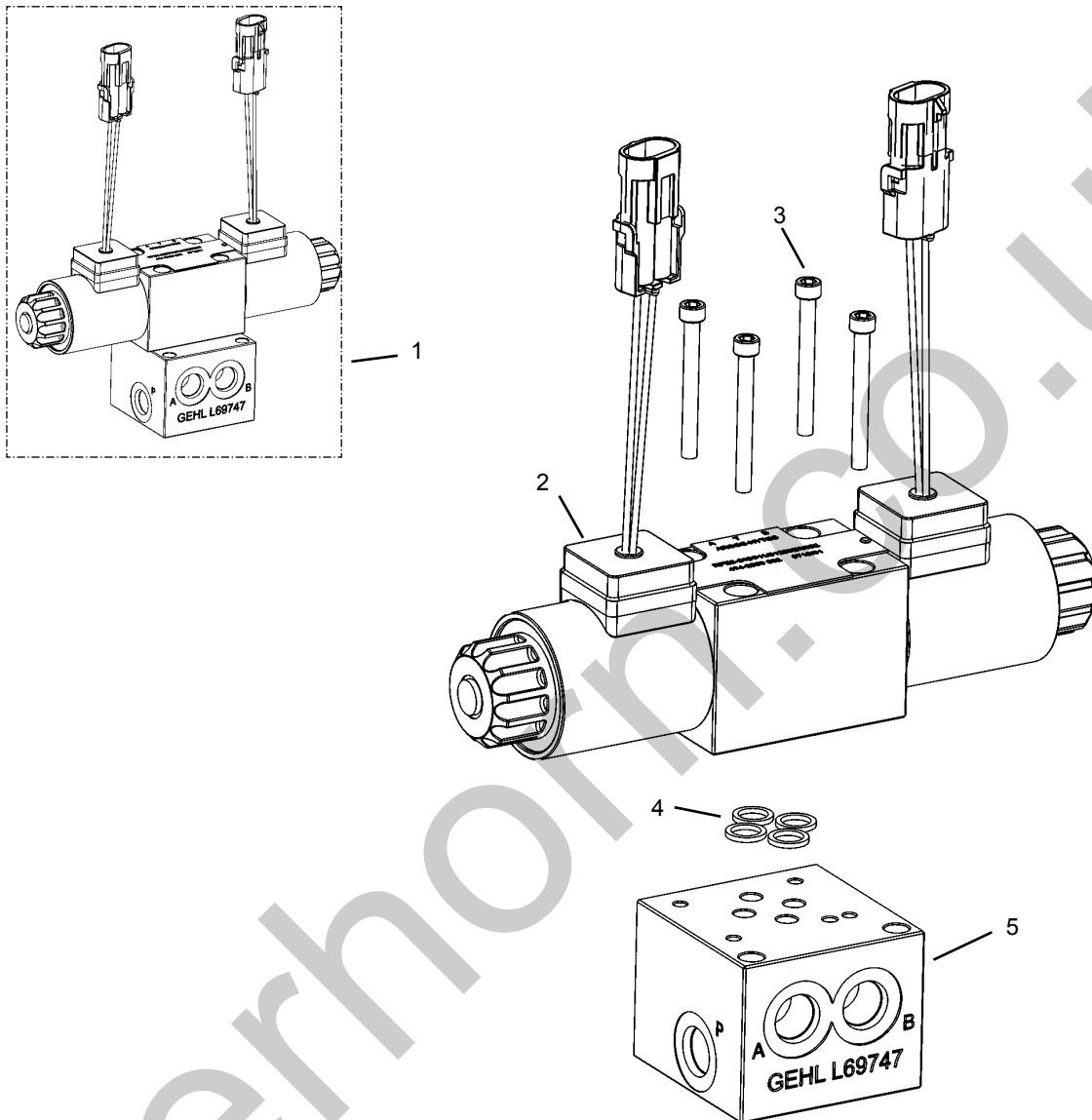
Control Valve

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00 ^a	51202055	MAIN VALVE [HC-D4/4] (<i>complete</i>)	1	17 ^c	51202169	WORK SECTION	1
01	51202154	CONTROL HANDLE, 6"	1			(<i>includes 6, 13 and 14</i>)	
02	51202155	CONTROL HANDLE, 8"	1	18 ^d	51202170	WORK SECTION	1
03	51202156	RUBBER BOOT	2	19 ^d	51202171	WORK SECTION	1
04	51202157	JOYSTICK CONTROL ASY.	1	20 ^e	51202172	WORK SECTION	1
05	51202158	JOYSTICK CONTROL ASY.	1	21 ^f	51202173	OUTLET SECTION	1
06	51202159	ANTI SHOCK VALVE 240-A	2			(<i>includes 15</i>)	
07	51202160	ANTI SHOCK VALVE 160-A bar	1				
08	51202161	PLUG KIT	1				
09	51202162	RELIEF VALVE 230 bar.	1				
10	51202163	STUD KIT	4				
		(<i>includes tie bolt, nuts and washers</i>)					
11	51202164	PLUG KIT	1	<i>a</i>	51202174	SEAL KIT, MAIN VALVE	1
12	51202165	PLUG KIT	1	<i>b</i>	51202175	SEAL KIT, INLET SECTION	1
13	808360	CHECK VALVE	4	<i>c</i>	51202176	SEAL KIT, WORK SECTION.	1
14	51202166	SPOOL RETURN ASY. (<i>F001A</i>)	4	<i>d</i>	51202177	SEAL KIT, WORK SECTION.	2
15	51202167	PLUG KIT, 7/8"-14UNF	3	<i>e</i>	51202178	SEAL KIT, WORK SECTION.	1
16 ^b	51202168	INLET SECTION	1	<i>f</i>	51202179	SEAL KIT, OUTLET SECTION	1
		(<i>includes 7-9 and 11-12</i>)					
						-- ITEMS NOT SHOWN --	
						(<i>SEAL KITS</i>)	

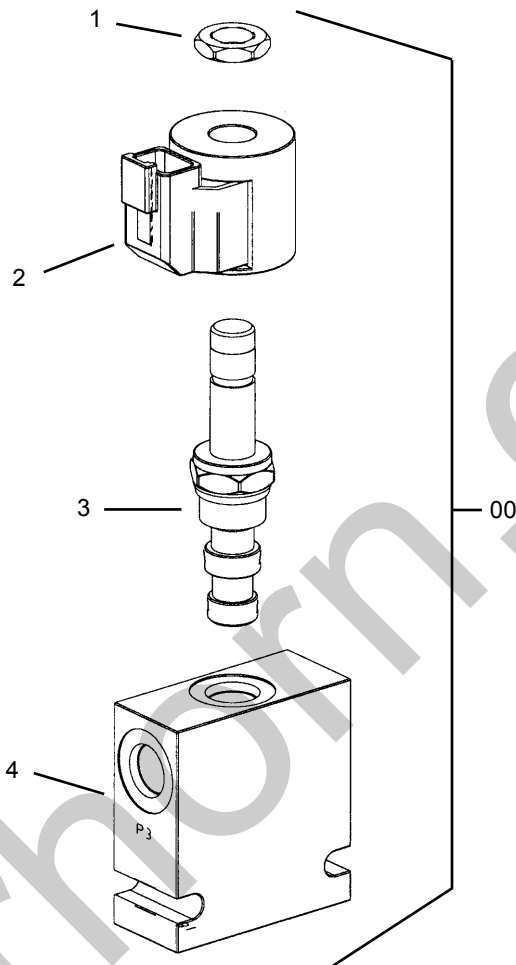


Ref. No.	Part No.	Description	Qty. Req.
01	51200702	STEERING CONTROL UNIT	1
02	809480	SEAL KIT	1
(Items included are not shown.)			

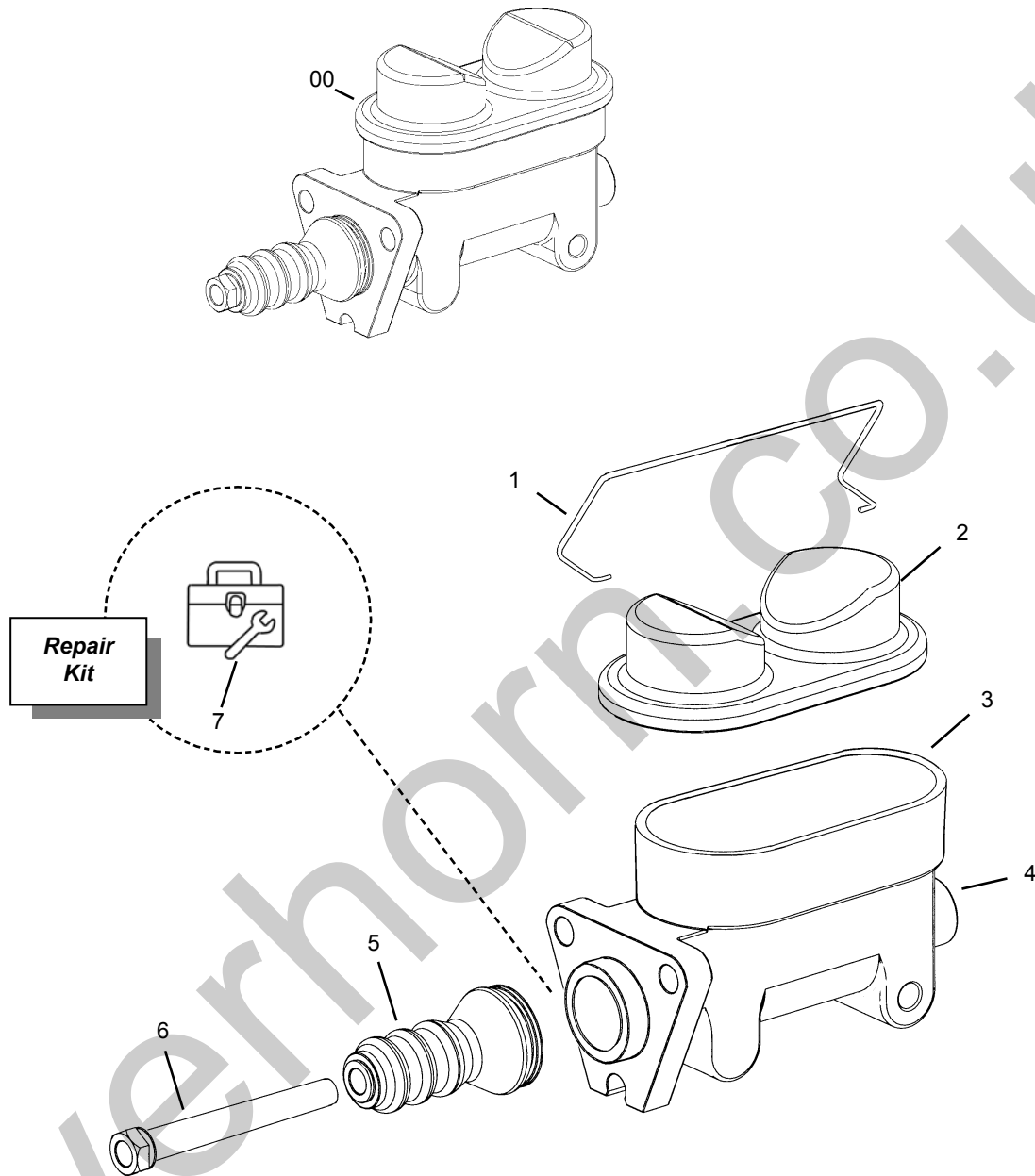
NOTE: Field service is limited to seals replacement.



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	808877	STEER SELECT VALVE 1 (includes items 1-5)	1	03	NSS	BOLTS, MANIFOLD. 4 (included with item 2)	4
02	814532	WEATHER PAK VALVE. 1 (includes items 3 and 4)	1	04	51202291	SEAL KIT (4 o-rings) 1 (included with item 2)	1
				05	NSS	MANIFOLD 1	1



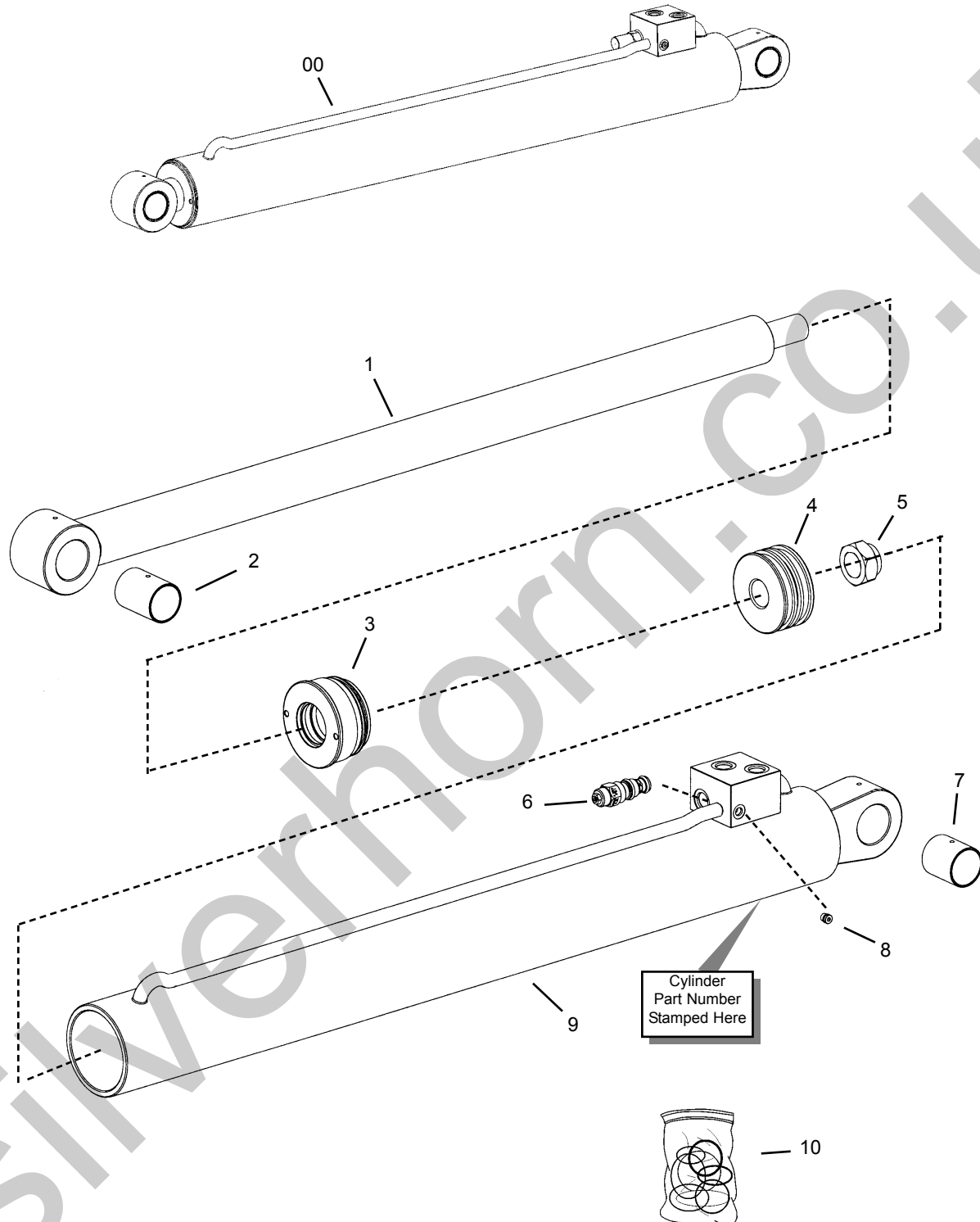
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	51202129	PARKING BRAKE VALVE	1	03	809152	VALVE/3WAY/2POS	1
		<i>(includes all items shown)</i>			809153	SEAL KIT	1
01	NSS	COIL NUT <i>(included with item 3)</i> . . .	1	04	NSS	MANIFOLD	1
02	51200427	COIL, WEATHERPAK 12VDC	1				



Ref. No.	Part No.	Description	Qty. Req.
00	808714	BRAKE VALVE ASY. (complete) (Unit requires two brake valves)	
01	NSS	BAIL WIRE.	1
02	809638	COVER	1
	809064	DIAPHRAGM GASKET	1
03	NSS	BODY	
04	NSS	TUBE SEAT (not shown)	1
05	809065	RUBBER BOOT	1

Ref. No.	Part No.	Description	Qty. Req.
06	NSS	PUSH ROD	1
07 ^a	809066	REPAIR KIT (Items included are not shown.)	1

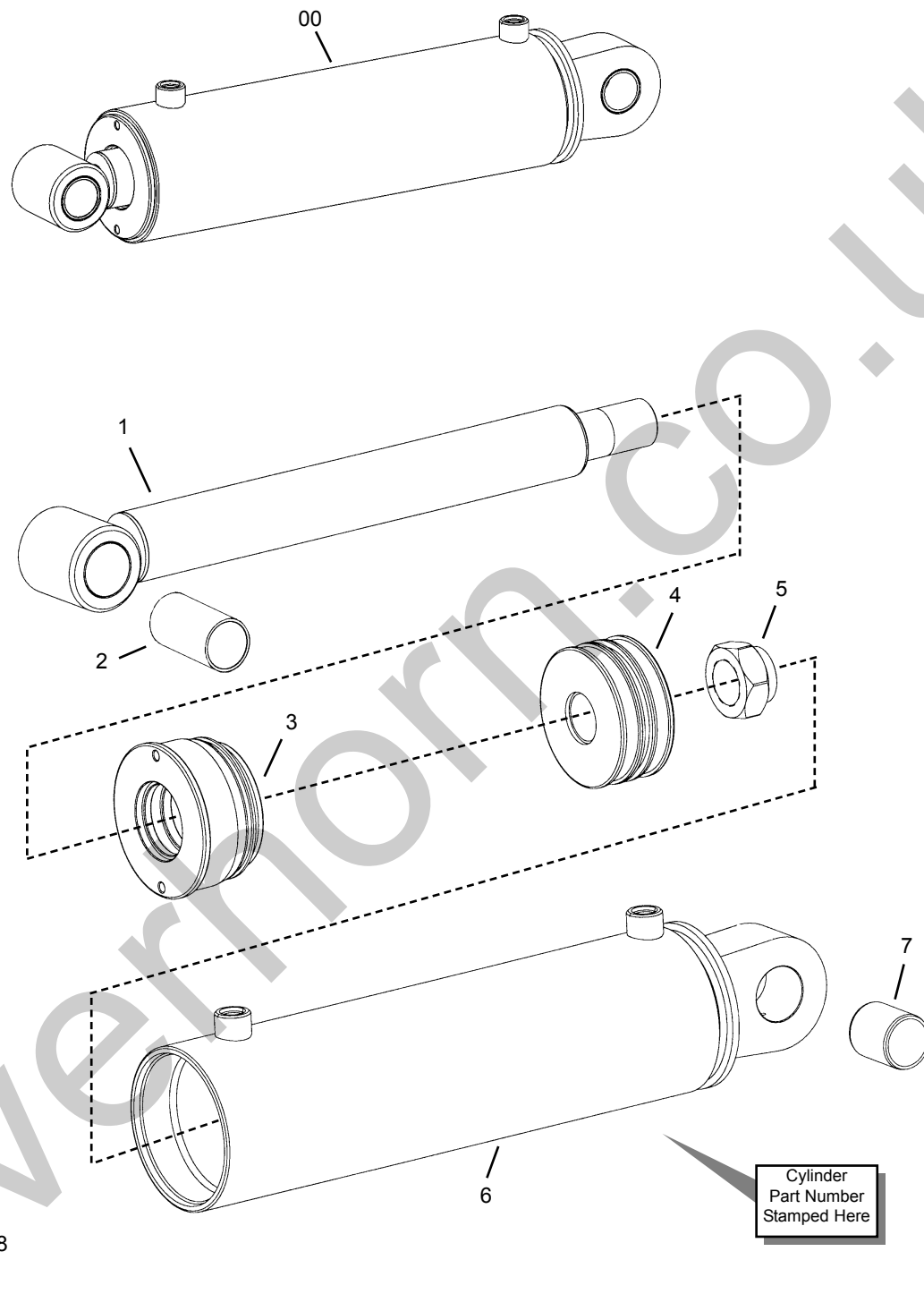
^a Repair kit includes seals, cups, return spring, second arm piston, and snap ring. Piston is not included or sold separately.



MT 5519 Telescopic Handler

Hydraulic Cylinders Lift Cylinder

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	51202180	LIFT CYLINDER (<i>complete</i>)	1	06	51202186	COUNTER BALANCE VALVE	1
01	51202181	ROD WELDMENT	1		51202187	SEAL KIT (CBV)	1
		(<i>includes item 2</i>)		07	51202188	BUSHING (2"X2-1/4"X2-1/2")	1
02	51202182	BUSHING (2"X2-1/4"X3")	1	08	809155	SAE 4 PLUG	1
03	51202183	HEAD GLAND	1	09	NSS	TUBE WELDMENT	1
04	51202184	PISTON	1	10	51202189	CYLINDER SEAL KIT	1
05	51202185	LOCKNUT	1			(<i>Items included are not shown.</i>)	



MT 5519 Telescopic Handler

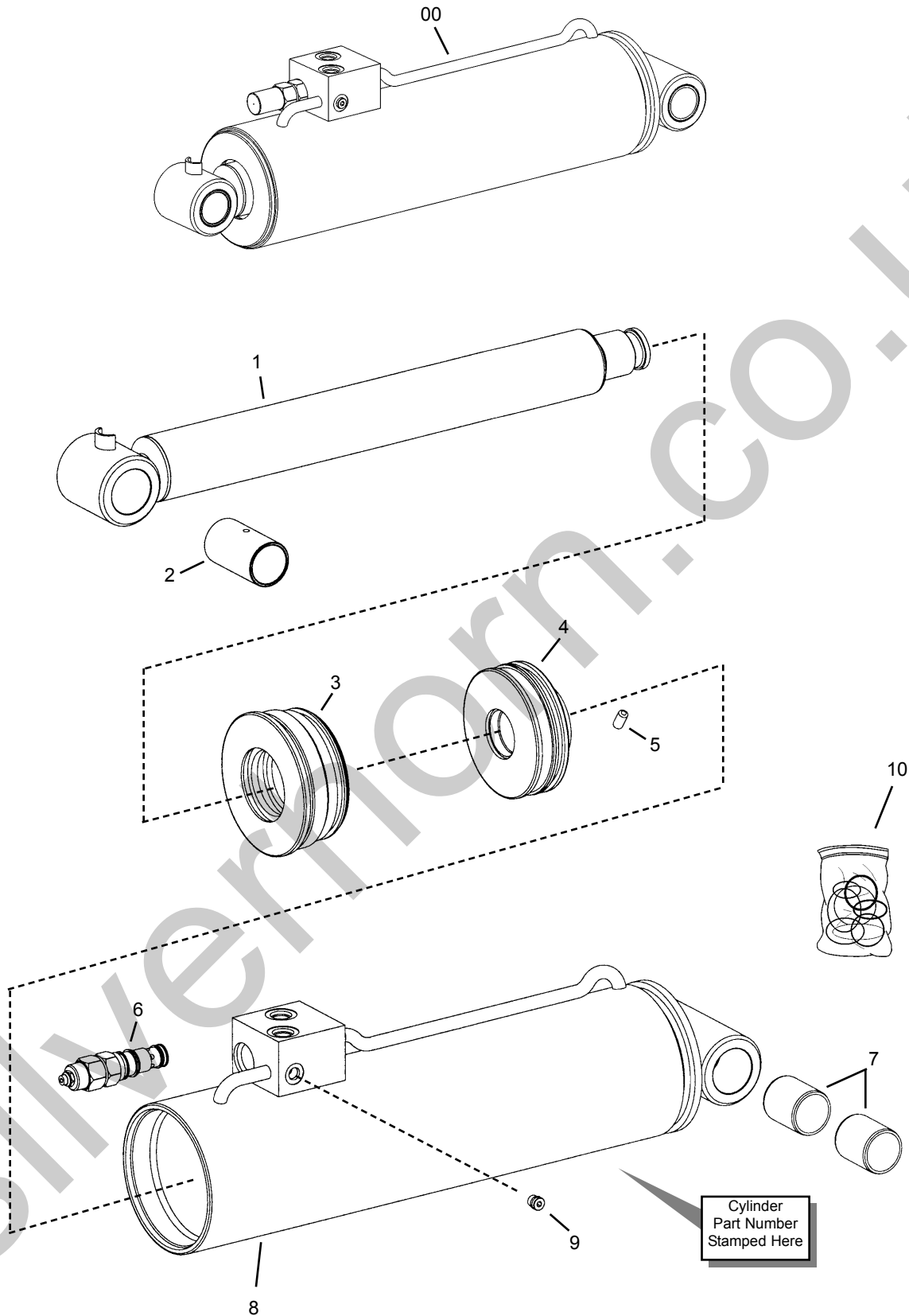
Hydraulic Cylinders Slave Cylinder

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	51202190	SLAVE CYLINDER <i>(complete)</i>	1	05	51202185	LOCKNUT	1
01	51202191	ROD WELDMENT	1	06	NSS	TUBE WELDMENT	1
		<i>(includes item 2)</i>		07	51202194	BUSHING <i>(1-1/2"X1-3/4"X2")</i>	1
02	51202192	BUSHING <i>(1-1/2"X1-3/4"X3")</i>	1	08	51202195	CYLINDER SEAL KIT	1
03	51202193	HEAD GLAND	1			<i>(Items included are not shown.)</i>	
04	51202184	PISTON	1				

Hydraulic Cylinders

Tilt Cylinder

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

Hydraulic Cylinders

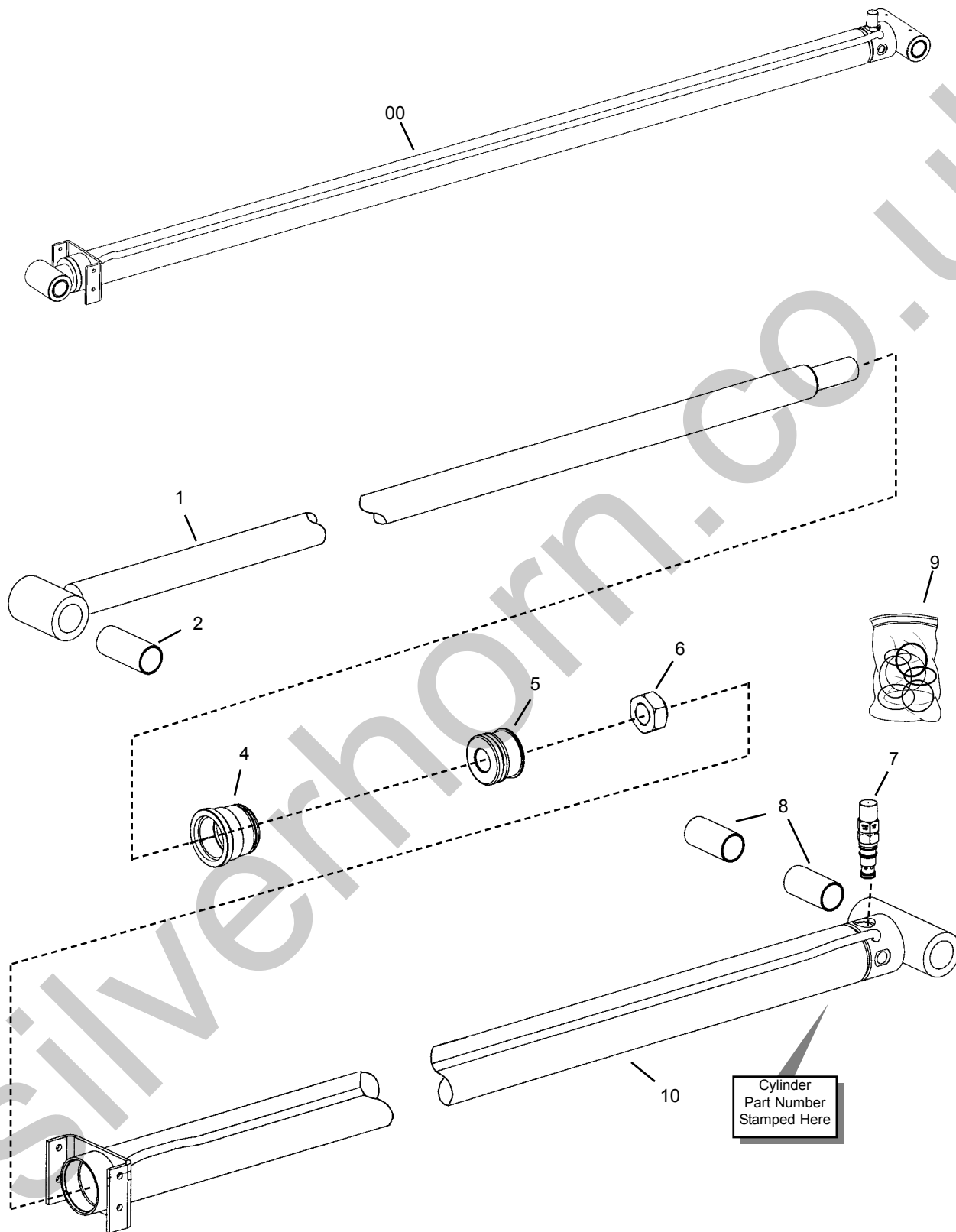
Tilt Cylinder

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	51202196	TILT CYLINDER (<i>complete</i>)	1	06	51202186	COUNTER BALANCE VALVE	1
01	51202197	ROD WELDMENT	1		51202187	SEAL KIT (CBV)	1
		(<i>includes item 2</i>)		07	51202201	BUSHING (<i>1-1/2"X1-3/4"X2"</i>)	2
02	51202192	BUSHING (<i>1-1/2"X1-3/4"X3"</i>)	1	08	NSS	TUBE WELDMENT	1
03	51202198	HEAD GLAND	1	09	809155	SAE 4 PLUG	1
04	51202199	PISTON	1	10	51202202	CYLINDER SEAL KIT	1
05	51202200	3/8"-16UNC X 0.75" SET SCREW . 1				(<i>Items included are not shown.</i>)	

Hydraulic Cylinders

Boom Extend Cylinder

MT 5519 Telescopic Handler



MT 5519 Telescopic Handler

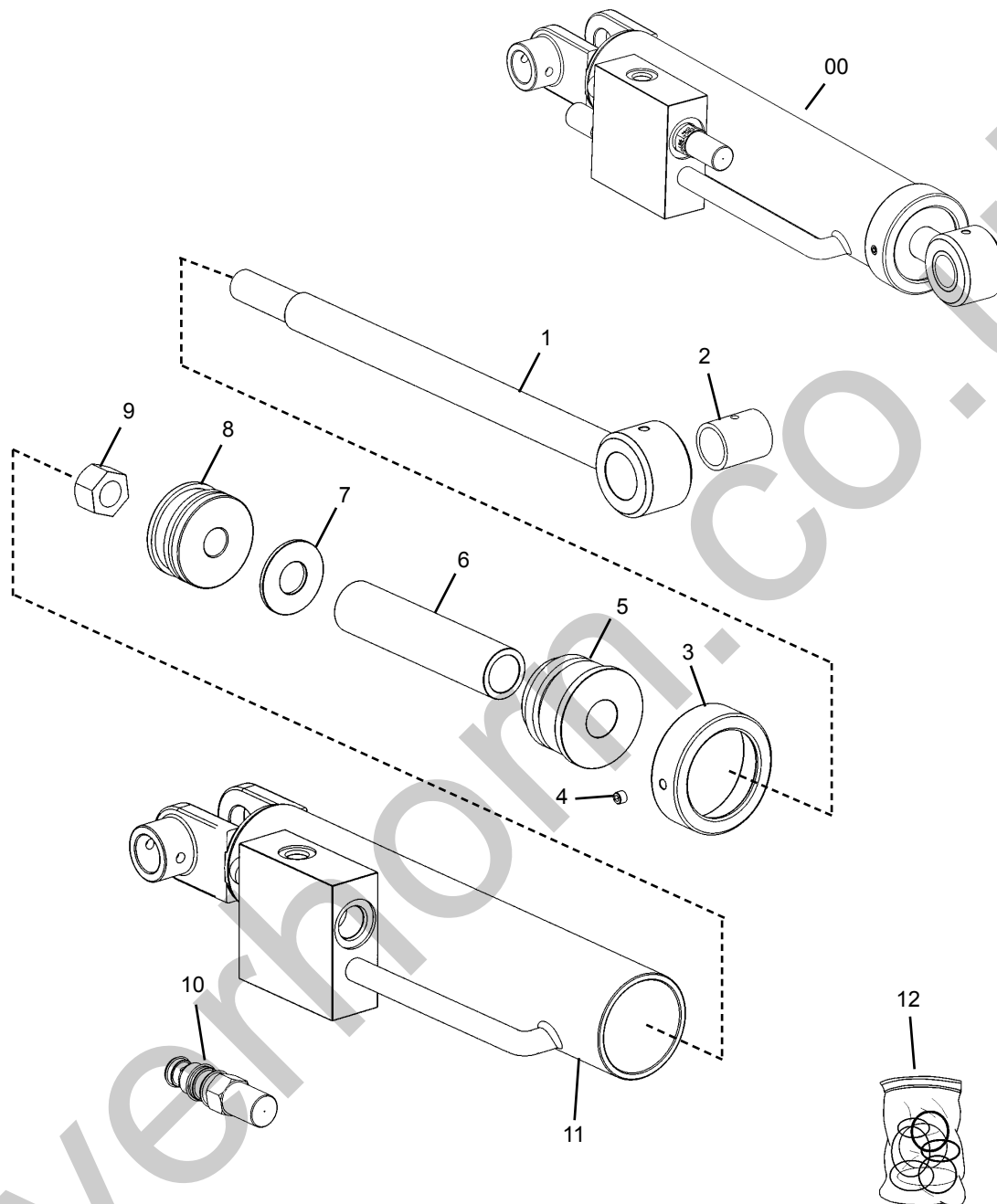
Hydraulic Cylinders Boom Extend Cylinder

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00	51202203	EXTEND CYLINDER <i>(complete)</i> . . .	1	07	51202209	COUNTER BALANCE VALVE	1
01	51202204	ROD WELDMENT	1		808955	SEAL KIT (CBV)	1
		<i>(includes item 2)</i>		08	51202192	BUSHING <i>(1-1/2"X1-3/4"X3")</i>	2
02	51202205	BUSHING <i>(1-1/2"X1-3/4"X4")</i>	1	09	51202210	CYLINDER SEAL KIT	1
04	51202206	HEAD GLAND	1			<i>(Items included are not shown.)</i>	
05	51202207	PISTON	1	10	NSS	TUBE WELDMENT	1
06	51202208	LOCKNUT	1				

Hydraulic Cylinders

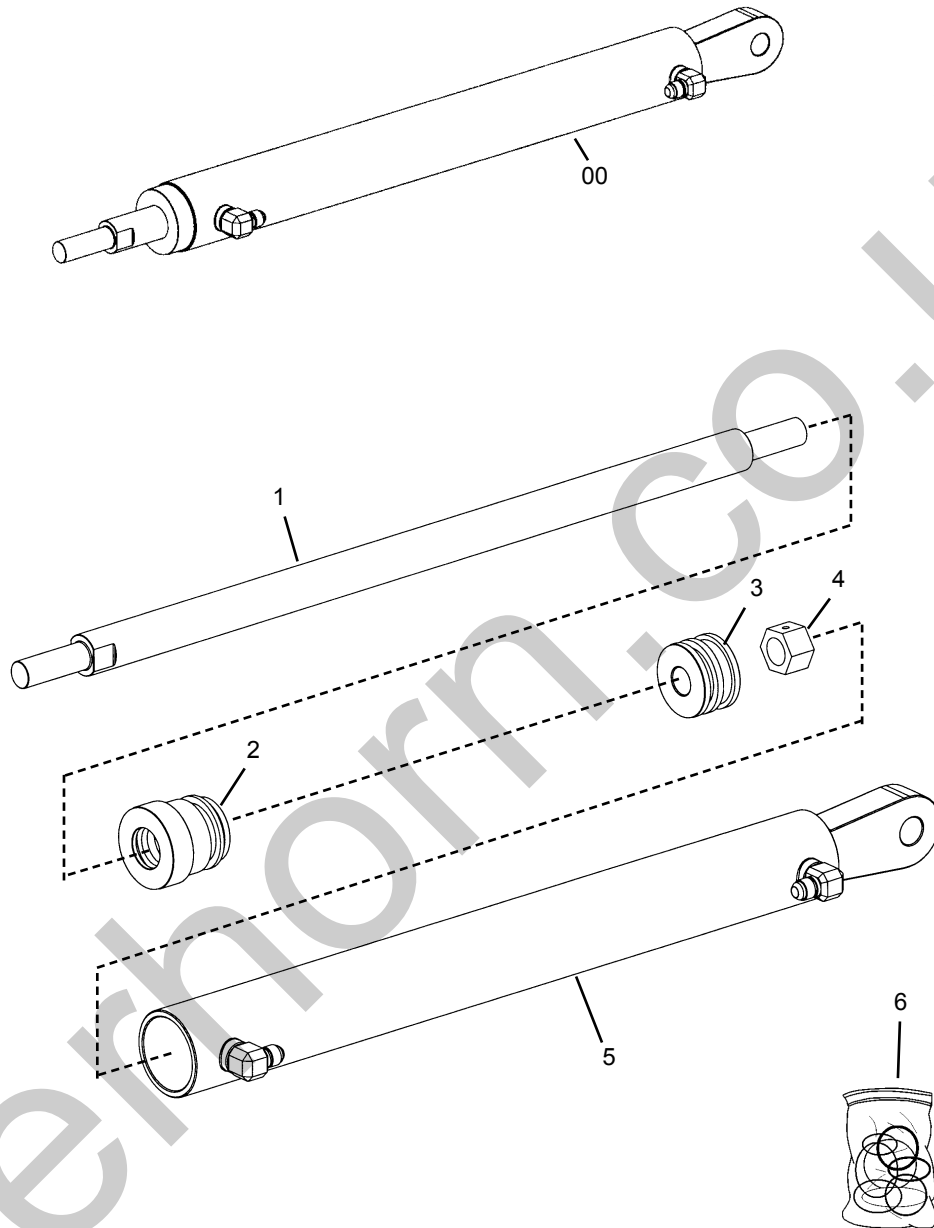
Rotating-Carriage Cylinder

MT 5519 Telescopic Handler



Ref. No.	Part No.	Description	Qty. Req.
00	809543	ROTATE CYLINDER (complete) . . .	1
01	809661	ROD WELDMENT	1
02	808720	BUSHING	1
03	809662	HEAD GLAND CAP	1
04	809136	5/16"-18X1/4" SET SCREW	1
05	809664	HEAD GLAND	1
06	809665	SPACER, ROD	1
07	809666	SUPPORT WASHER.	1

Ref. No.	Part No.	Description	Qty. Req.
08	809650	PISTON	1
09	809407	3/4"-16 UN LOCKNUT	1
10	809549	COUNTER BALANCE VALVE	2
	808965	SEAL KIT (CBV)	
11	NSS	TUBE WELDMENT	1
12	809663	CYLINDER SEAL KIT	1
		(Items included are not shown.)	



Ref. No.	Part No.	Description	Qty. Req.
00	808834	FORK-SHIFT CYL. (<i>complete</i>)	1
01	808581	ROD WELDMENT	1
02	808580	HEAD GLAND	1
03	808579	PISTON	1

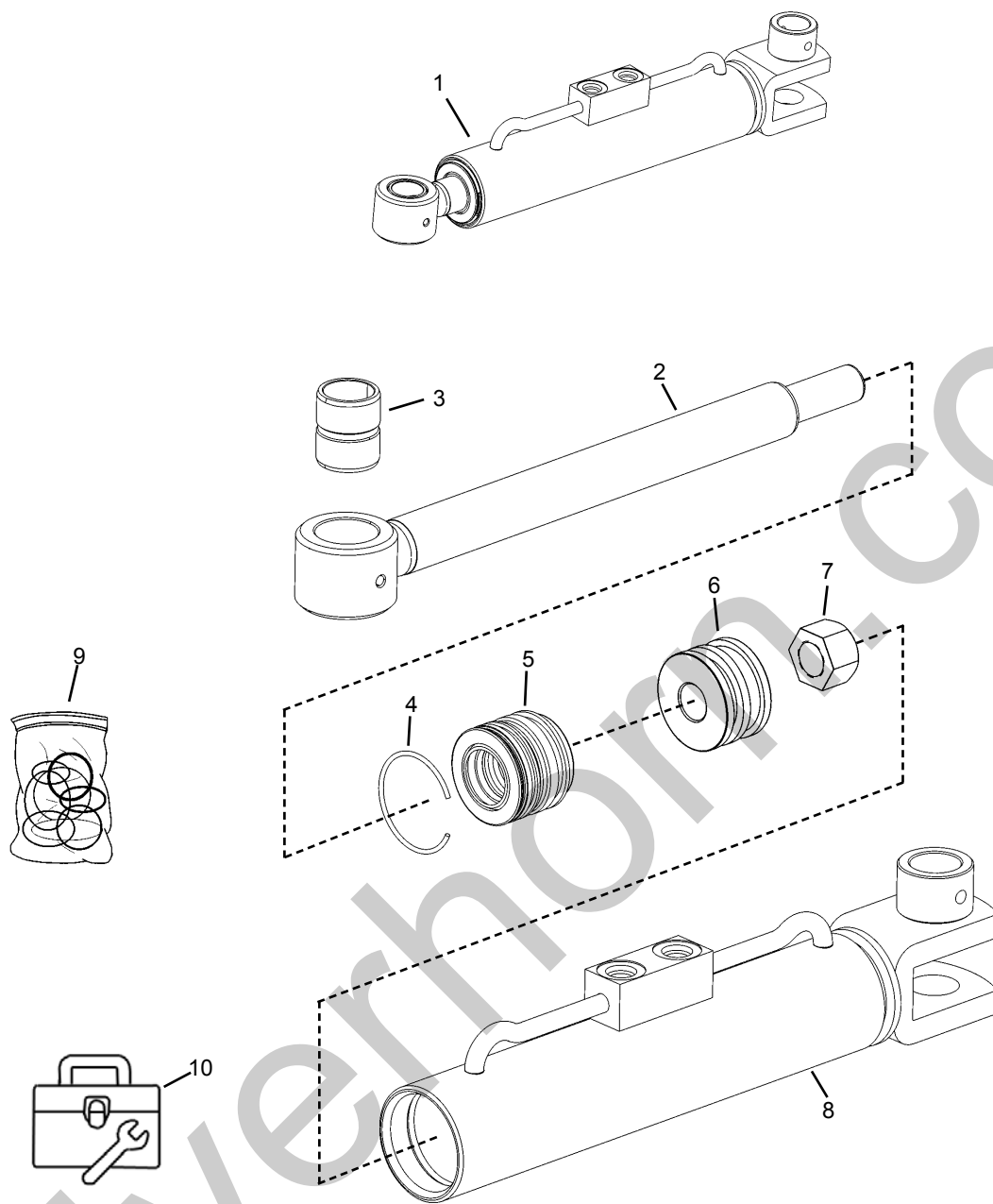
Ref. No.	Part No.	Description	Qty. Req.
04	809407	3/4\"-16 UNF LOCKNUT	1
05	NSS	TUBE WELDMENT	1
06	808506	SEAL KIT	1

(Items included are not shown.)

Hydraulic Cylinders

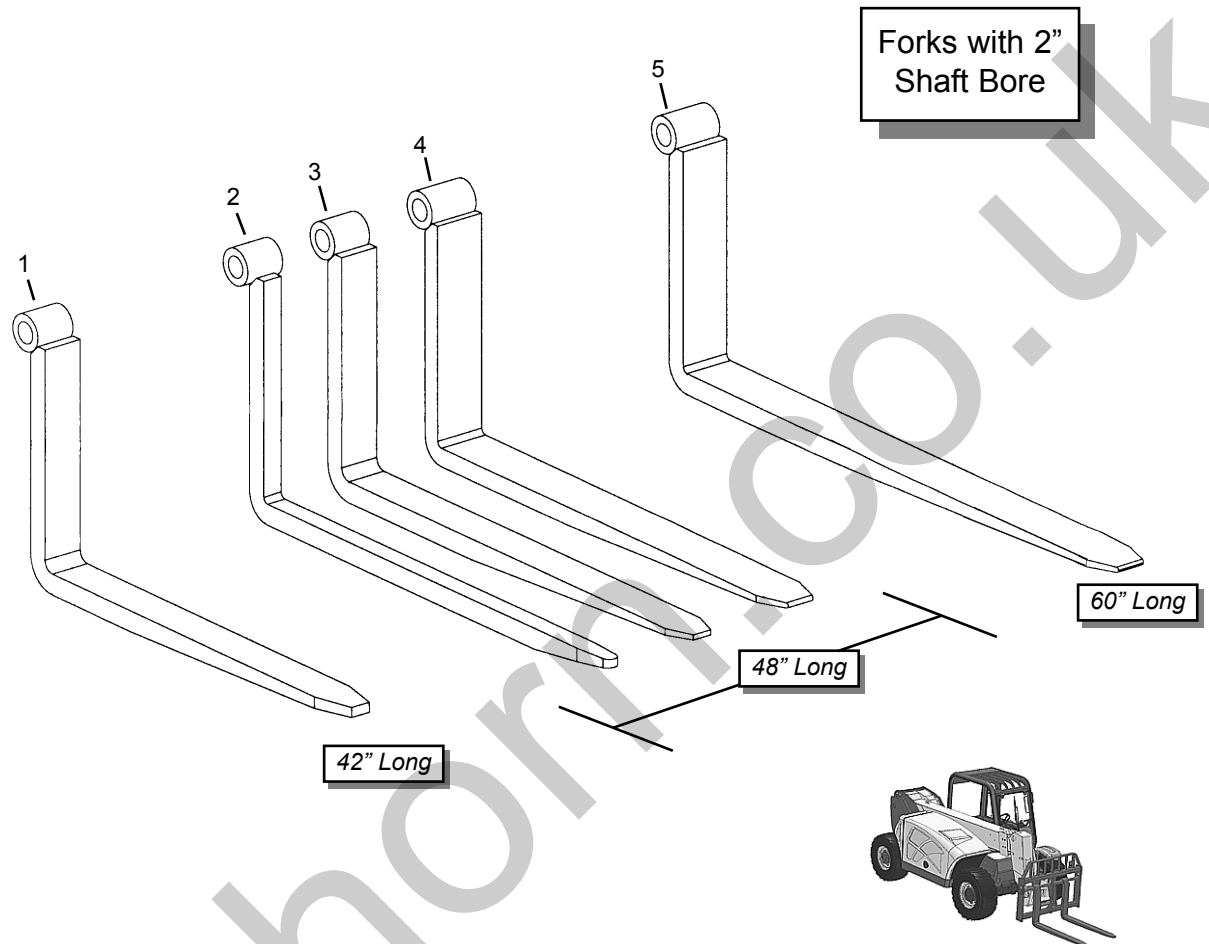
Side-Shift Carriage Cylinder

MT 5519 Telehandler



Ref. No.	Part No.	Description	Qty. Req.
01	50380525	CYLINDER, SIDE-SHIFT	1
		(includes Items 2-9)	
02	50220258	ROD WELDMENT	1
03	808720	BUSHING	1
04 ^a	50220260	RETAINING RING	1
05	50220259	HEAD GLAND	1
06	808579	PISTON	1
07	808071	LOCK NUT, 3/4"-16	1
08	NSS	TUBE WELDMENT	1

Ref. No.	Part No.	Description	Qty. Req.
09	50220261	SEAL KIT	1
		(Includes all required seals, an internal retaining ring, and item 4).	
10	50220262	REPAIR KIT	1
		(Includes item 9, plus a filler ring that is required to remove the head gland.)	
a		Included with seal kit (item 9).	



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

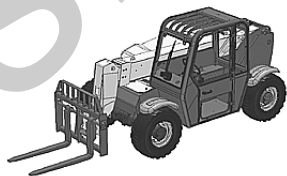
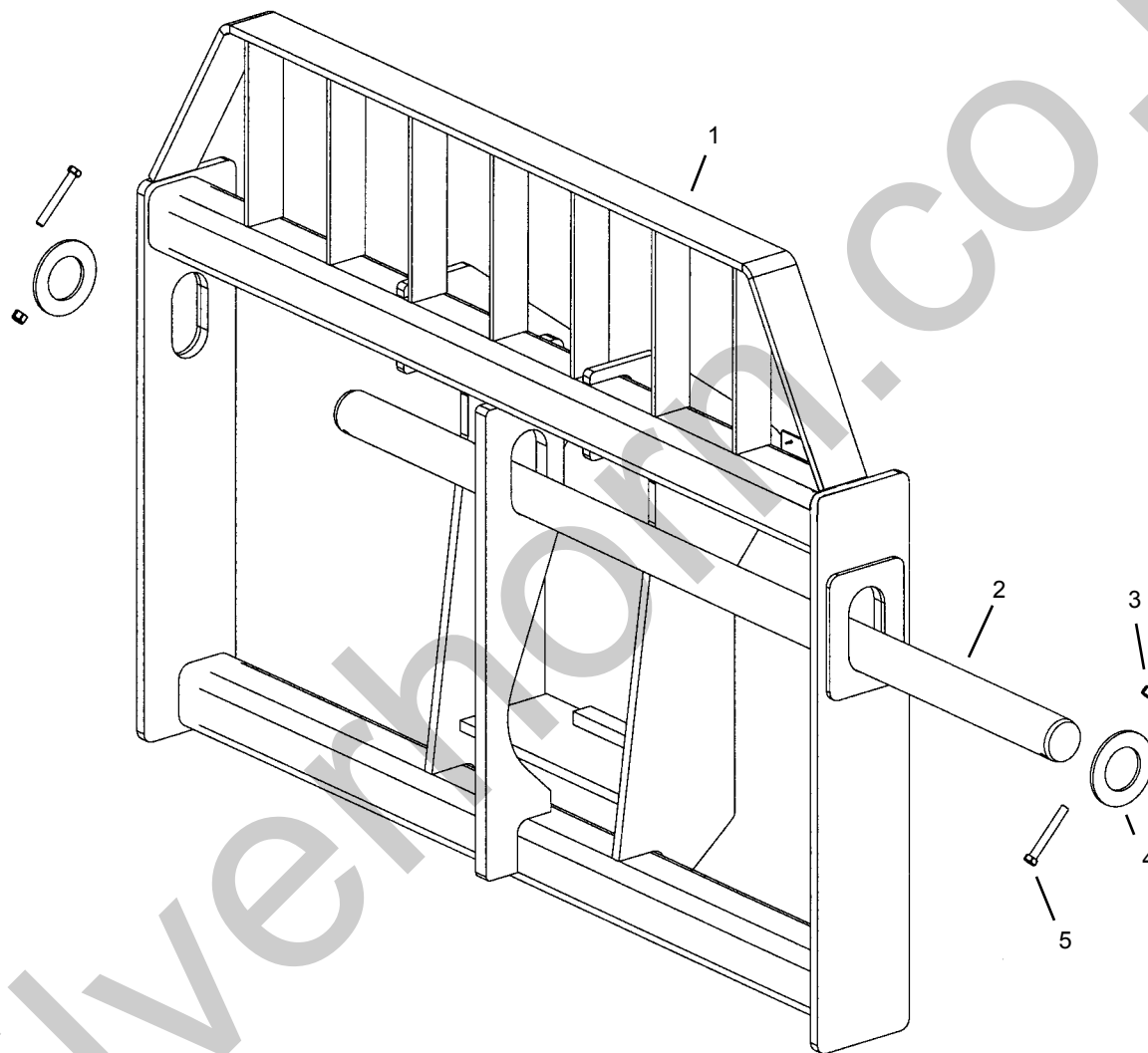
^a Requires 2 sets (4 forks)

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

To order forks, please call the Factory Sales Department at (262) 334-6601.

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

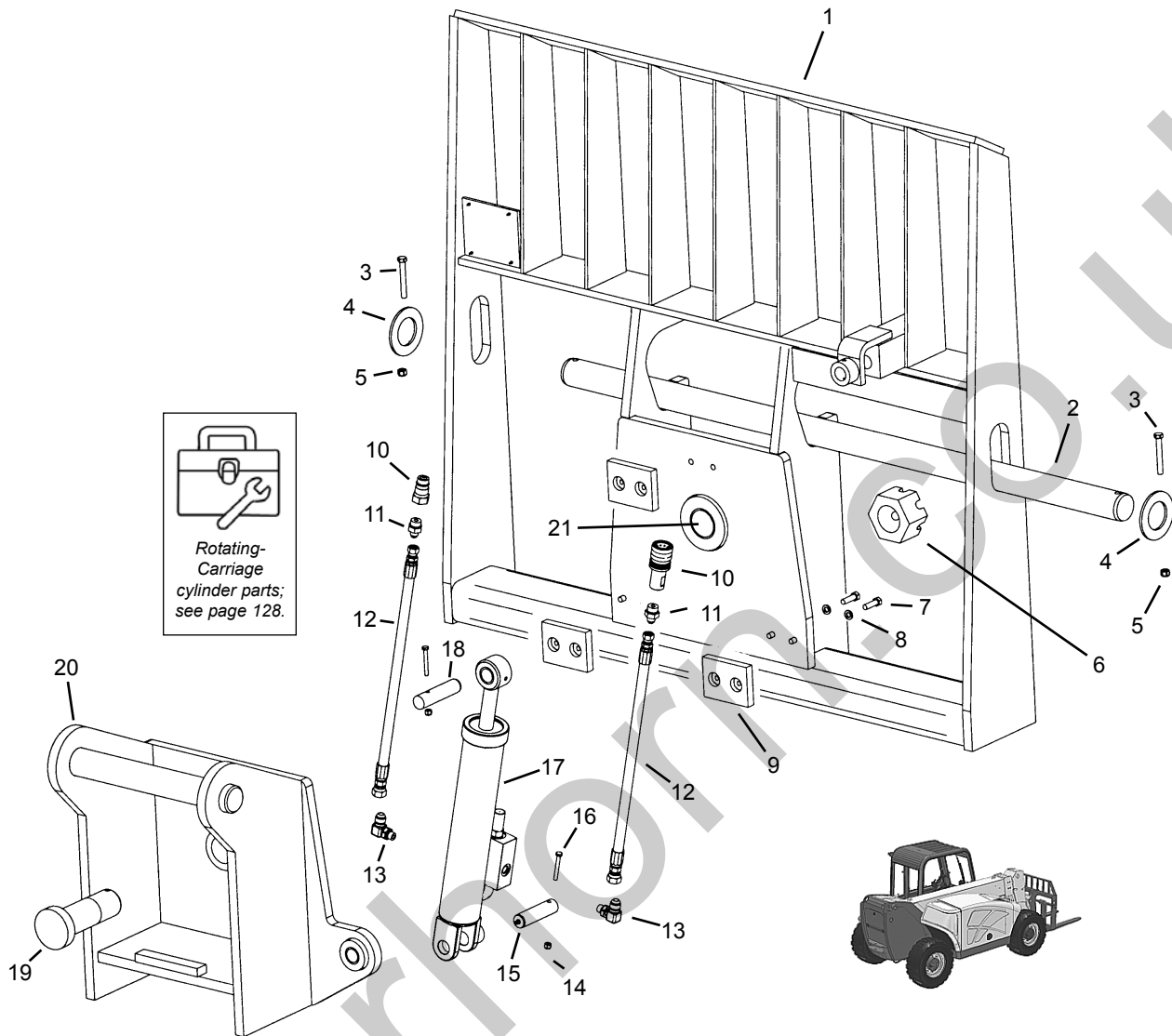
Attachments Standard Carriage

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		CARRIAGE, WELDMENT	1	03	808431	WASHER, FORK SHAFT	2
	51202211	48" Carriage		04	808663	3/8"-16 NYLON INSERT NUT	2
	51202212	66" Carriage		05	51200400	3/8"-16X2-3/4" BOLT	2
02		FORK SHAFT BAR	1				
	809691	48" Carriage (50-1/2")					
	809692	66" Carriage (68-1/2")					

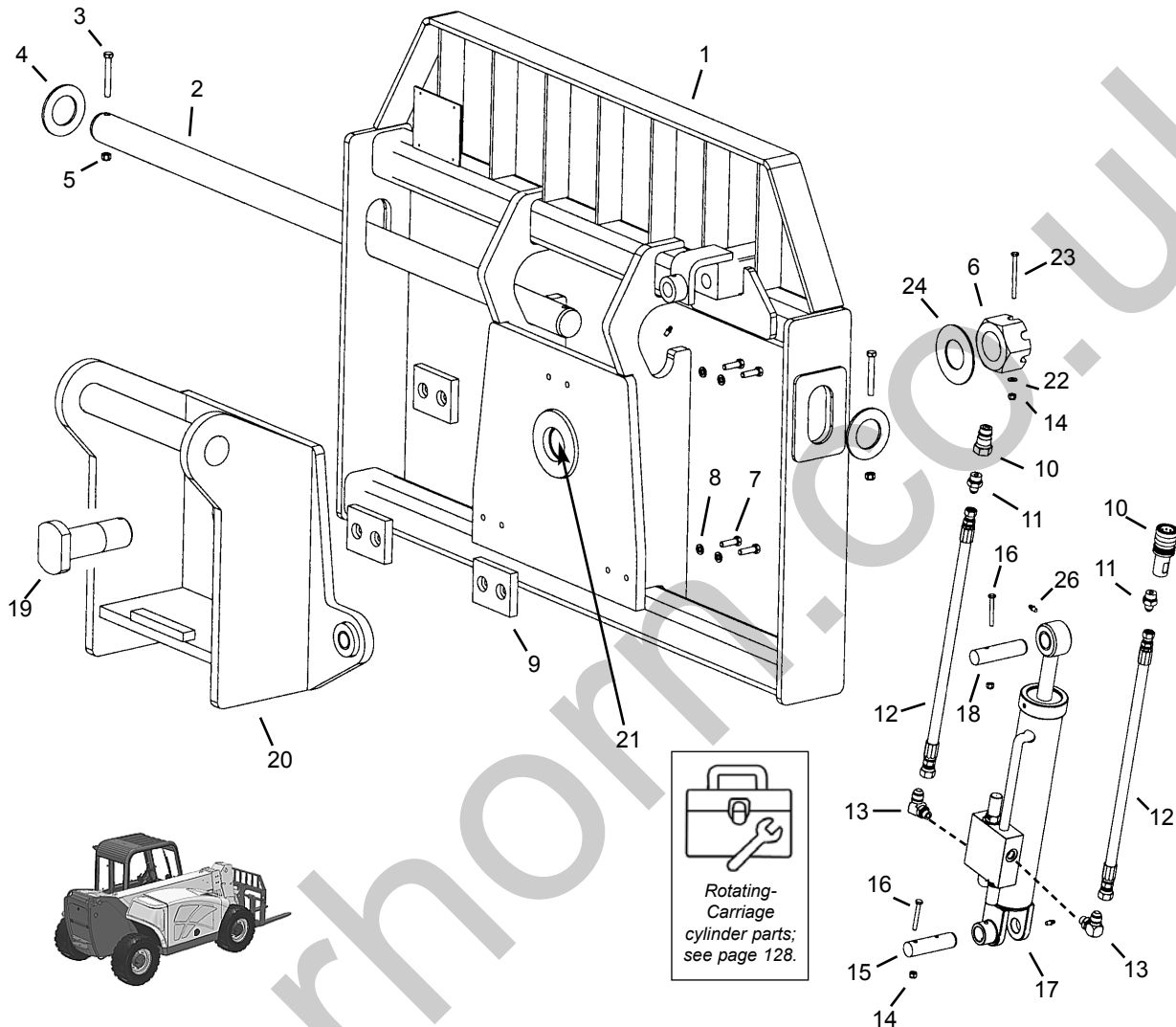
Attachments

Rotating Carriage (Series I)

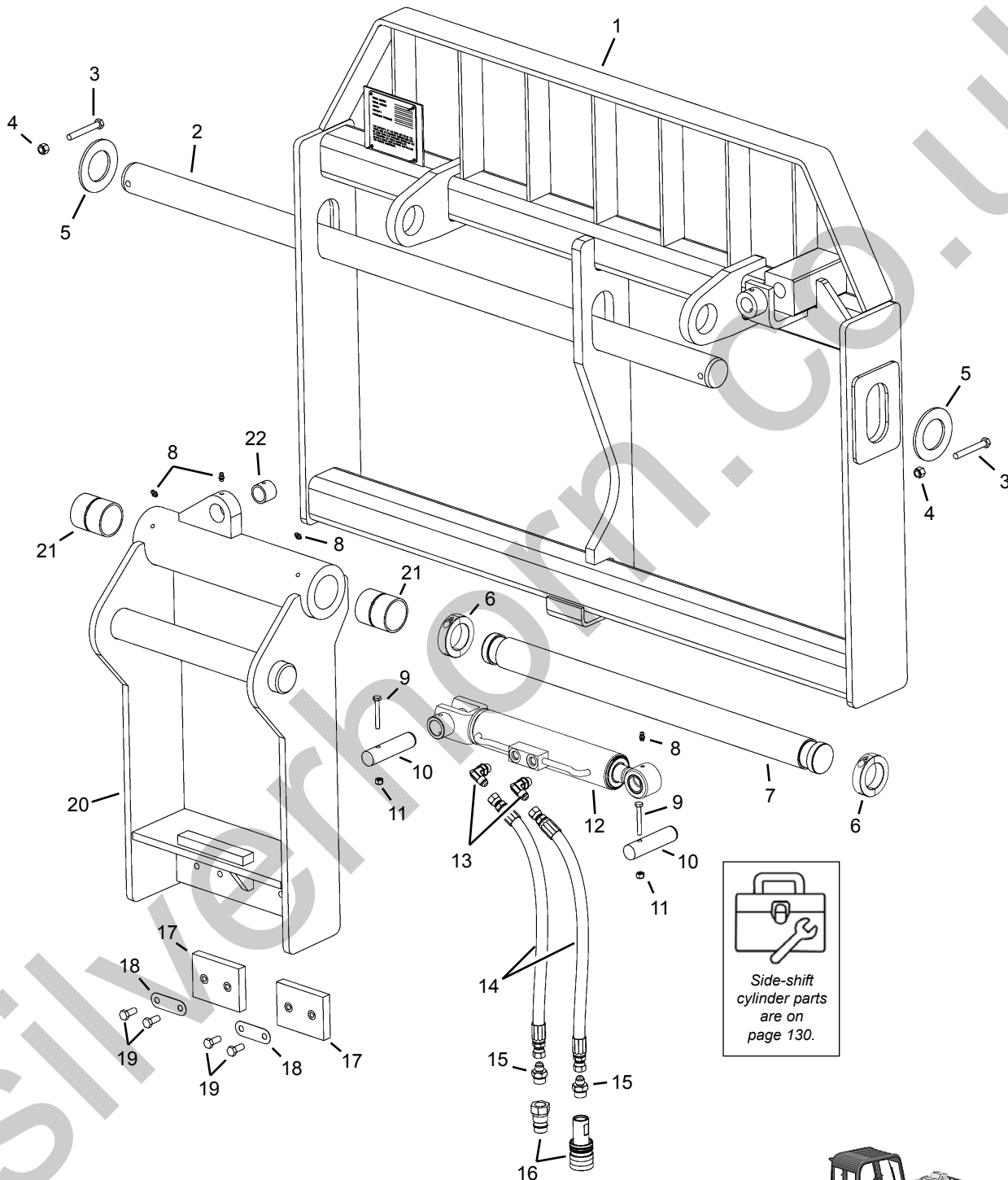
MT 5519 Telescopic Handler



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		ROTATE CARRIAGE, WELDMNT . 1		11	808710	ADAP, -8ORM -6JICM STR. 2	
	809670	48" Carriage				(with orifice)	
	809669	66" Carriage		12	809535	HOSE, -6 A8/A6 20" 2	
02		FORK SHAFT BAR 1		13	51200412	ADAP, -6ORM -6JICM 90°..... 2	
	809691	48" Carriage (50-1/2" long)		14	808663	3/8"-16 NYLON INSERT NUT 1	
	809692	66" Carriage (68-1/2" long)		15 ^a	809547	BUTT END PIVOT PIN 1	
03	51200400	3/8"-16X2-3/4" BOLT 2		16	51200400	3/8"-16X2-3/4" BOLT AR	
04	808431	RETAINER..... 2		17	809543	ROTATE CYLINDER 1	
05	808663	3/8"-16 NYLON INSERT NUT 2		18 ^a	809548	ROD END PIVOT PIN 1	
06	809482	2"-12 CASTELLATED NUT 1			814647	1/2"-13X3-1/2" BOLT 1	
	808687	WASHER (not shown) 1			808665	1/2"-13 NYLON INSERT NUT 1	
07	813549	3/8"-16X1-1/4" BOLT" 6		19	NSS	ROTATE PIN (welded to #20). 1	
08	813849	3/8" LOCK WASHER..... 6		20	809545	ROTATE, PLATE (includes #19)... 1	
09	808693	SLIDE PAD 3"x4" 3		21	808756	BUSHING (not shown) 1	
10	808796	QUICK COUPLER SET..... 1					
		(Couplers are not sold separately.)					



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		ROTATE CARRIAGE, WELDMNT . 1		11	813700	ADAP, -8ORM -6JICM STR. 2	
	51202213	48" Carriage		12	809535	HOSE, -6 A8/A6 20" 2	
	51202214	66" Carriage		13	51200412	ADAP, -6ORM -6JICM 90°..... 2	
02		FORK SHAFT BAR 1		14	808661	1/4" NYLON INSERT NUT 1	
	809691	48" Carriage (50-1/2" long)		15	809547	PIVOT PIN, BASE END 1	
	809692	66" Carriage (68-1/2" long)		16	808644	1/4"X2" BOLT AR	
03	51200400	3/8"X2-3/4" BOLT 2		17	809543	ROTATE CYLINDER..... 1	
04	808431	RETAINER..... 2		18	809548	PIVOT PIN, ROD END 1	
05	808663	3/8"-16 NYLON INSERT NUT 2		19	51202215	ROTATE PIN. 1	
06	809482	2"-12 CASTELLATED NUT 1		20	51202216	CARRIAGE PIVOT 1	
07	813713	3/8"X1-1/4" BOLT"..... 6		21	51202217	SPHERICAL BEARING..... 1	
08	813849	3/8" LOCK WASHER..... 6		22	809181	1/4" FLAT WASHER..... AR	
09	808693	SLIDE PAD 3"X4" 3		23	808627	1/4"X3" BOLT..... 1	
10	808796	QUICK COUPLER SET..... 1		24	808429	WASHER 1	
		(Couplers are not sold separately.)					

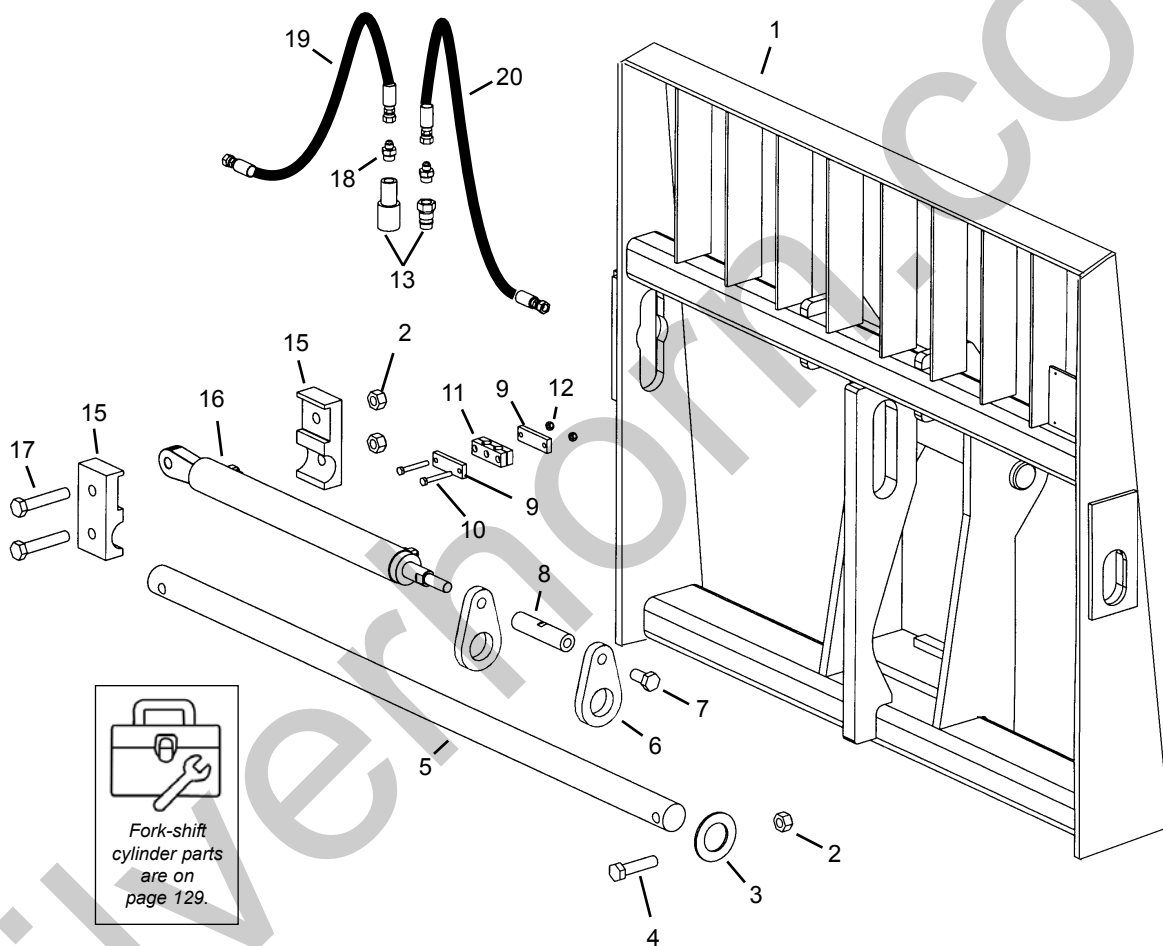


MT 5519 Telehandler

Attachments Side-Shift Carriage

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50220314	SIDE-SHIFT FRAME w/SN	1	14	51202292	HOSE, MP -6 x 30"	2
02	809691	BAR, FORKSHAFT 2" x 50-1/2" . . .	1	15	50380600	ST MJ06-MORB08 w/orifice	2
03	51200400	CS 3/8" x 2-3/4" C5ZY	2	16	808796	HYDRAULIC COUPLER SET	1
04	813656	HLN INST 3/8" CZY	2	17	808693	PAD, SLIDE 3" x 4"	2
05	808431	WASHER, FORK SHAFT	2	18	808696	LOCK, BOLT FLAT	2
06	50380541	COLLAR, 1-3/4" LOCKING	2	19	814211	CS 3/8" x 7/8" GR5	4
07	50380532	SHAFT, SIDE-SHIFT	1	20 ^a	50380535	SIDE-SHIFT MOUNT.	1
08	51200386	FITTING, GREASE 1/4" TAPER . . .	4	21 ^b	51202188	BUSHING	2
09	51200090	CS 1/4" x 2" C5ZY	2	22 ^b	51202293	BUSHING, 1-1/4" O.D. x 1" I.D. . . .	1
10	809548	PIN, CYLINDER PIVOT.	2				
11	808661	NYLON INSERT NUT, 1/4"-20	2				
12	50380525	CYLINDER, SIDE-SHIFT	1				
13	813597	90 JICM06-MAORB06.	2				

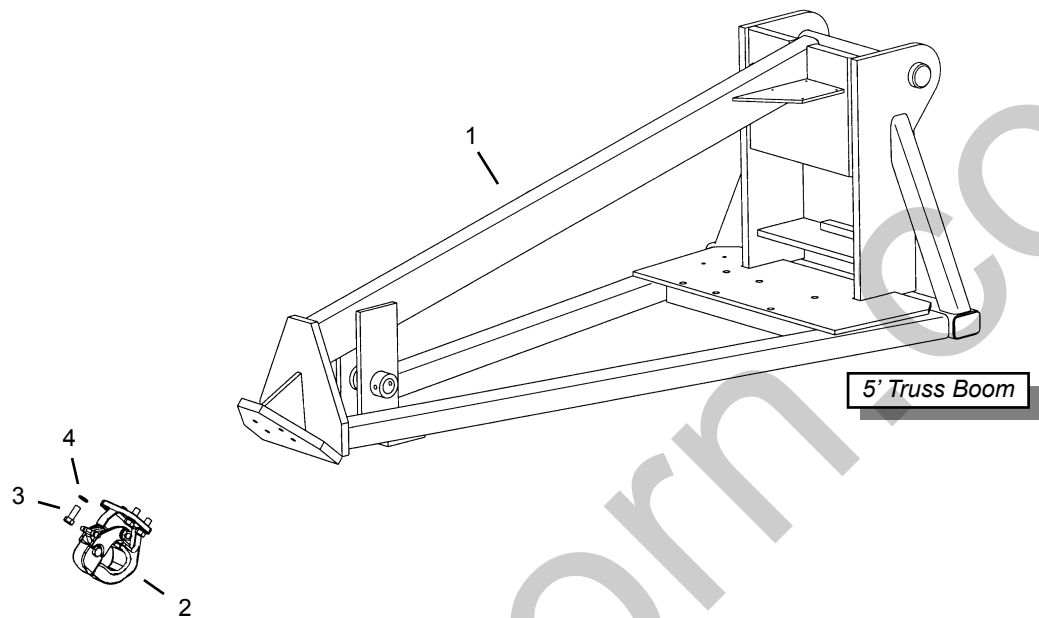
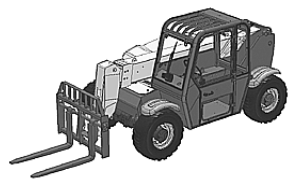
a Includes bushings: items 21 and 22.
b Included with item 20.



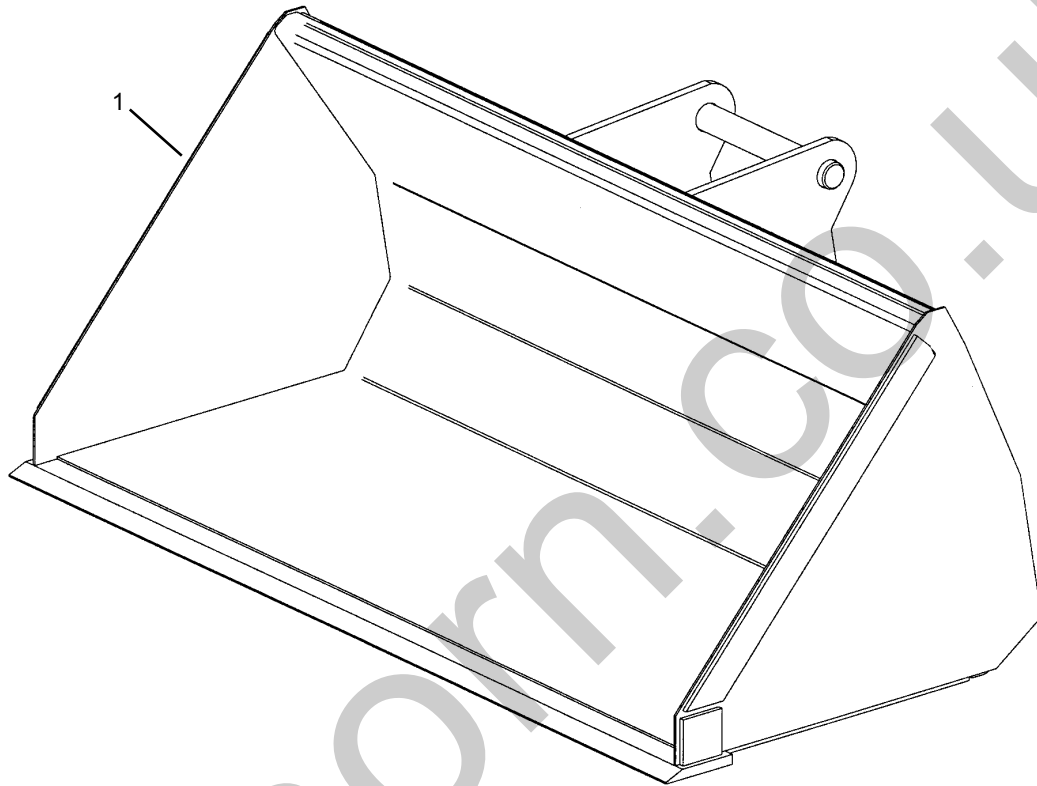
MT 5519 Telescopic Handler

Attachments Fork-Shift Carriage

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	809405	FORK-SHIFT, WELDMENT	1	10	809251	5/16"-18X2-1/4" BOLT	2
02	808626	3/4"-10 NYLON INSERT NUT	3	11	808728	TWIN HOSE CUSHION	1
03	808431	FORK SHAFT WASHER	1	12	808662	5/16"-18 NYLON INSERT NUT	2
04	808616	3/4"-10X3" BOLT	1	13	808796	QUICK COUPLER SET	1
05	808822	FORK SHAFT, 50"	1	15	809252	CYLINDER MOUNT	2
06	808824	FORK SLIDE PLATE	2	16	808834	FORK SHIFT CYLINDER	1
07	814650	3/4"-10X1-1/2" BOLT	1	17	809253	3/4"-10X4" BOLT	2
08		FORK SLIDE COUPLER	1	18	808710	ADAP -8ORM -6JICM W/.06 ORF	2
	808823	Used with 4" wide forks		19	809254	HOSE -6 A6/A6 59"	1
	809276	Used with 5" wide forks		20	808826	HOSE -6 A6/A6 56"	1
09	808727	TWIN CUSHION TOP PLATE	2				



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	51202218	TRUSS BOOM, 5FT.	1	-- ITEMS NOT SHOWN --			
02	808689	PINTLE HOOK	1	--	809406	ATTACH. ADAPTER PLATE.	1
03	808619	1/2"-20X1-1/4" GR 8 BOLT	4	--	51200487	DECAL, TRUSS TILT BACK.	1
04	808596	1/2" LOCK WASHER.	4				



Ref. No.	Part No.	Description	Qty. Req.
01	51202220	1.0 CU. YD. BUCKET WELDMNT . 1	
	51202221	CUTTING EDGE 73.5" (weld-on) . . 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:

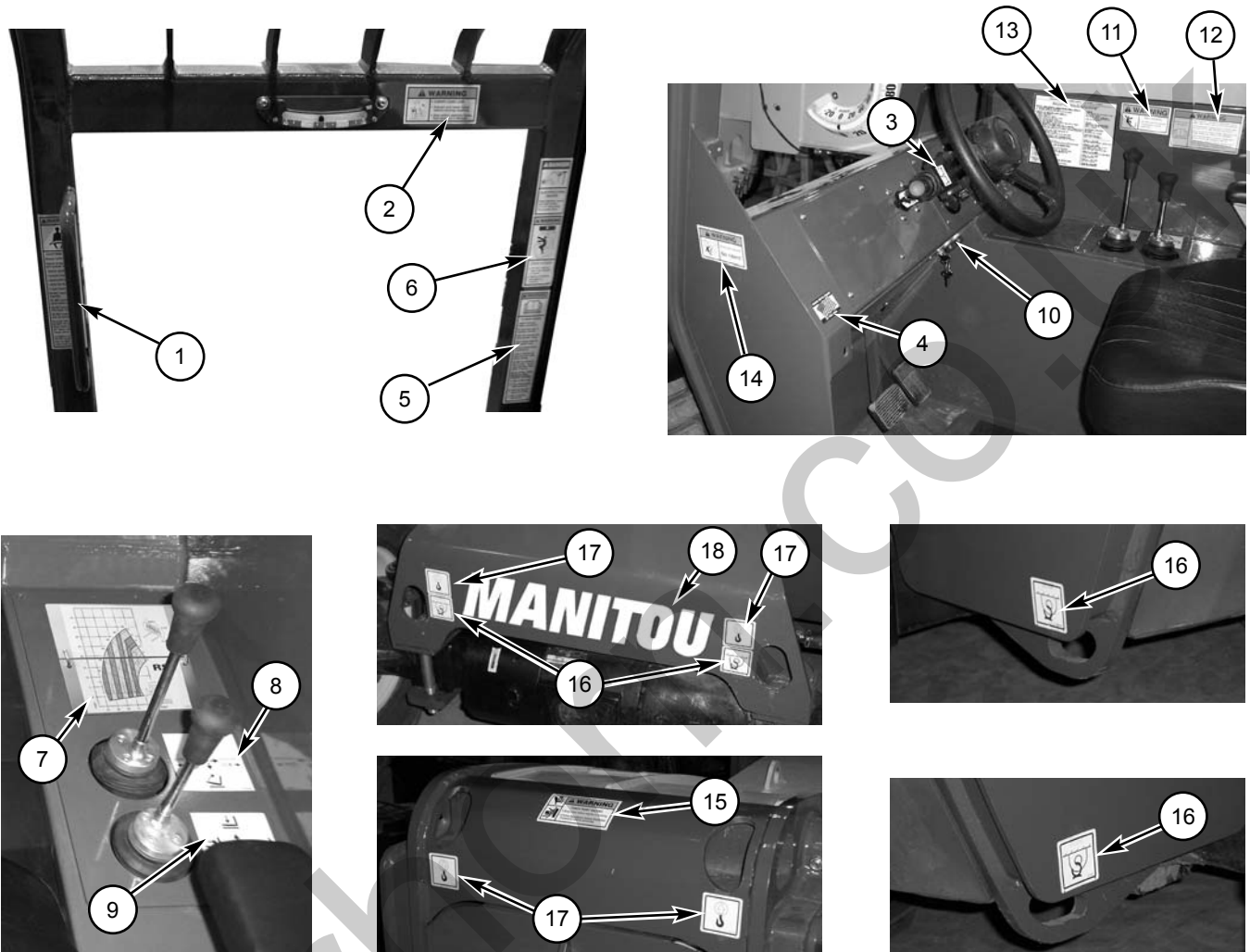
808020	One Gallon Red
808021	6 (12-oz. Spray Cans) Red
808043	One Gallon Gun-Metal Gray
808044	6 (12-oz. Spray Cans) Gun-Metal Gray

Decal Kits

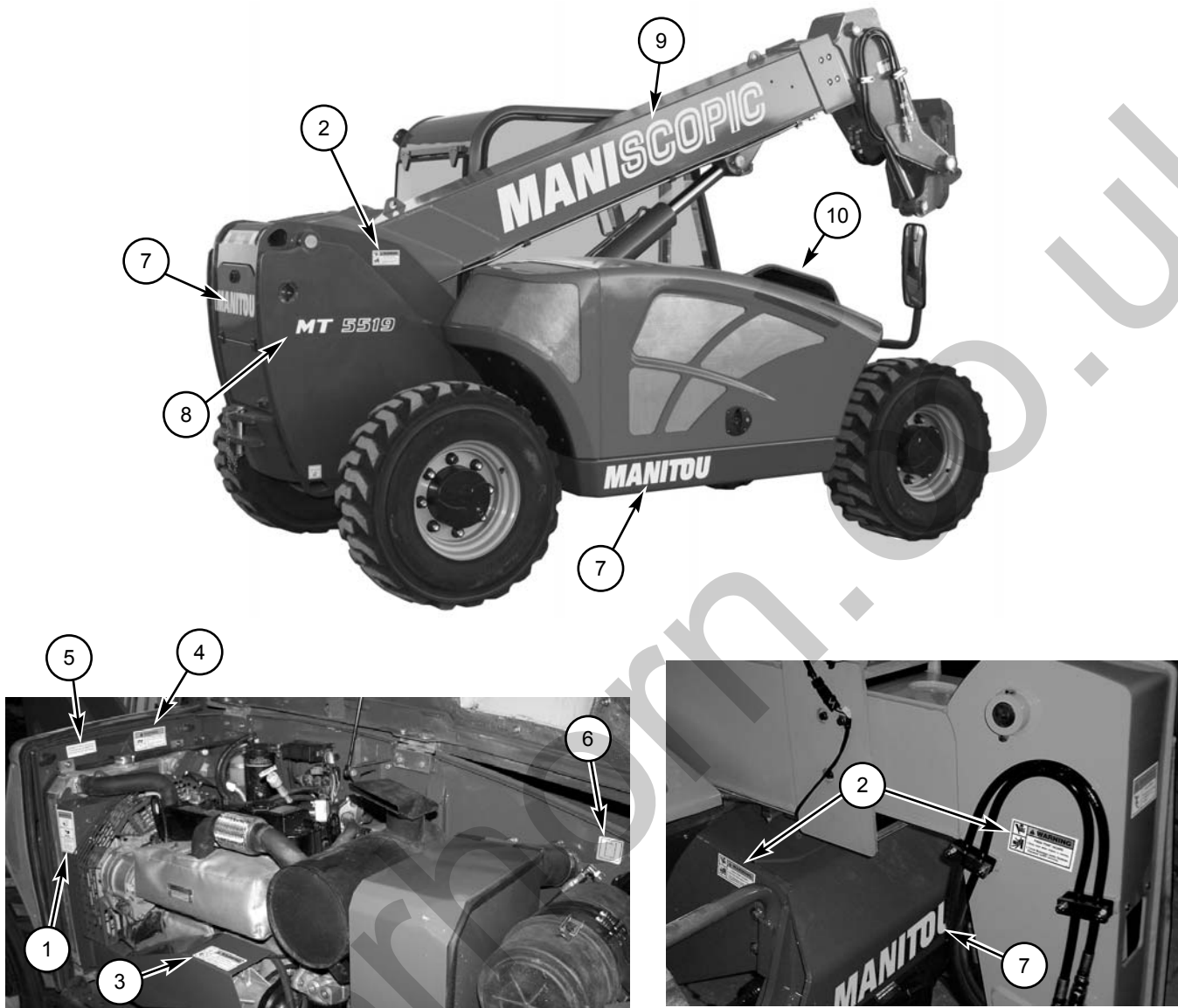
50200526	MT 5519 Telehandler
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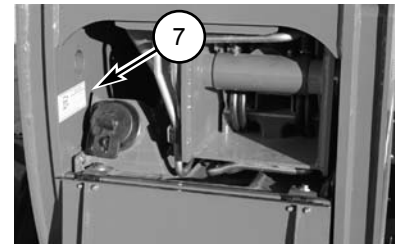
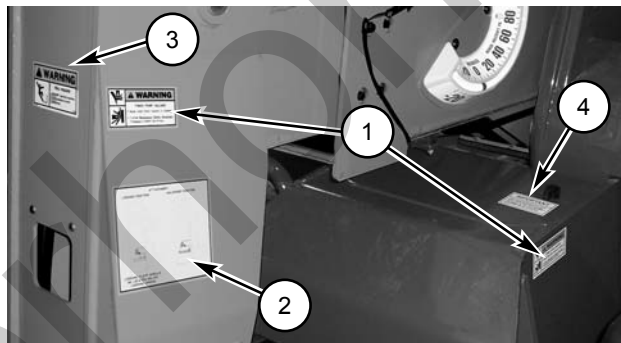
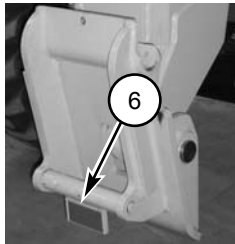
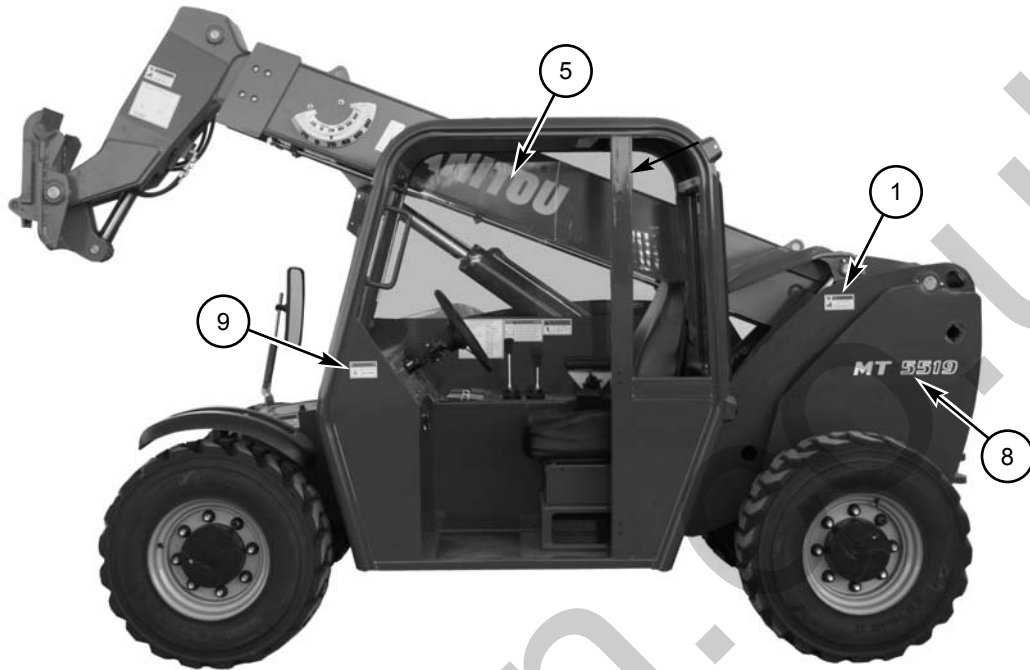
NOTE: Decals may be purchased in kits or individually.



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	808027	DECAL, WARN. TILT HAZARD....	1	08	809306	ATTACHMENT TILT/AUX.....	1
02	808037	DECAL, WARN. CARRY LOAD ...	1	09	808062	BOOM CONTROL.....	1
03	808059	DECAL, F-N-R SHIFTER	1	10	50380266	DECAL, IGNITION/HORN.....	1
04	808060	DECAL, MADE IN USA.....	1	11	808031	DECAL, PERSON. INJURY	1
05	808030	DECAL, WARN. PARK BRAKE....	1	12	808032	OPERATOR MANUAL WARNING..	1
06	808029	DECAL, DANGER/HIGH VOLT. ...	1	13	50380364	DECAL, LUBE CHART	1
07		LOAD CHART	1	14	808035	DECAL, NO RIDERS.....	1
	50380347	STANDARD CARRIAGE		15	808033	DECAL, PINCH POINT	1
	50380348	ROTATING CARRIAGE		16	51200524	DECAL, TIE DOWN.....	4
	50380349	BUCKET		17	51200525	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	808036	DECAL, DANGER-HANDS OUT. . .	1	06	808057	DECAL, HYDRAULIC OIL	1
02	808033	DECAL, WARN. PINCH POINT . . AR		07	50380379	DECAL, MANITOU (SMALL).	3
03	808034	DECAL, WARN. JUMP START	1	08	50380382	DECAL, MT 5519	1
04	808047	DECAL, ANTI-FREEZE	1	09	50380381	DECAL, MANISCOPIC	1
05	808054	DECAL, COOLANT PRESSURE . .	1	10	809291	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	808033	DECAL, WARN. PINCH POINT . . .	1	06	808038	DECAL, QUICKATTACH UNLOCK .	1
02	808064	DECAL, QUICKATTACH	1	07	50301416	DECAL, DIESEL FUEL	1
03	808031	DECAL, DANGER-PERSONNEL . .	1	08	50380382	DECAL, MT 5519	1
04	808055	DECAL, BRAKE FLUID	1	09	51202219	NO RIDERS	1
05	50380380	DECAL, MANITOU (LARGE)	1				

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
50220067	71	19	50380364	143	13	51200059	27	15	51200437	40	01
50220067	71	21	50380379	143	18	51200063	31	01	51200487	140	—
50220067	77	18	50380379	144	07	51200066	31	04	51200524	143	16
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51202088	101	09	51202134	109	09	51202192	127	08	808074	09	15
51202088	97	19	51202135	110	02	51202193	123	03	808076	107	—
51202089	101	10	51202136	110	03	51202194	123	07	808076	68	—
51202089	97	20	51202137	110	04	51202195	123	08	808086	21	22
51202090	101	07	51202138	110	05	51202196	125	00	808086	23	28
51202090	97	21	51202139	110	06	51202197	125	01	808089	17	24
51202091	97	22	51202140	110	07	51202198	125	03	808089	47	12
51202092	97	25	51202140	112	02	51202199	125	04	808094	23	11
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808347	17	—	808498	45	12	808663	21	14	808880	84	04
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808352	24	05	808498	58	14	808665	47	04	808881	84	03
808360	115	13	808498	61	06	808665	89	02	808881	91	11
808394	11	01	808500	11	14	808666	07	32	808889	13	01
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809185	23	31	809549	128	10	813591	41	04	813839	99	19
809186	21	21	809638	119	02	813591	46	02	813844	101	04
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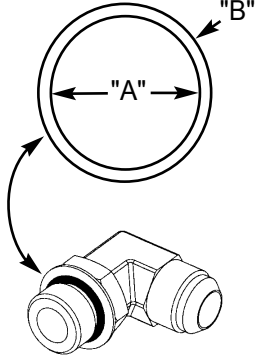
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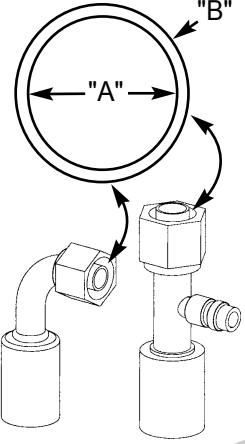
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O-RING TABLES

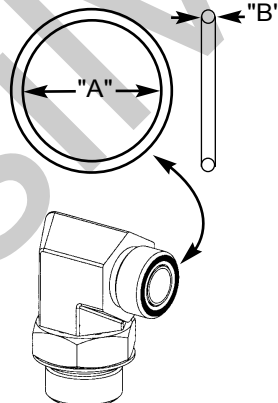
O-Ring Table — Male Boss Fittings

	Fitting Thread Size	Diameter "A"	Diameter "B"	Part Number
	9/16 - 18	0.468	0.078	51200605
	3/4 - 16	0.644	0.087	51200606
	7/8 - 14	0.755	0.097	51200607
	1-1/16 - 12	0.924	0.116	51200608
	1-5/16 - 12	1.171	0.116	51200609
	1-5/8 - 12	1.475	0.118	51200610
	A/C #6	0.312	0.453	51200047
	A/C #8	0.437	0.578	51200049
	A/C #10	0.562	0.703	51200051

O-Ring Table — Air Conditioning Fittings

	A/C Fitting	Diameter "A"	Diameter "B"	Part Number
	A/C #6	0.312	0.453	51200047
	A/C #8	0.437	0.578	51200049
	A/C #10	0.562	0.703	51200051

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	51200611
	1-13/16 - 12	3/4	0.739	0.070	51200612
	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.

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