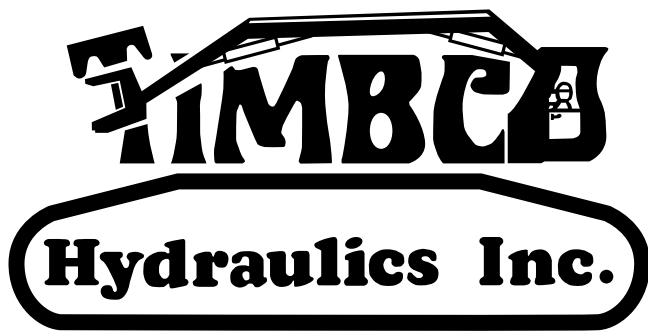
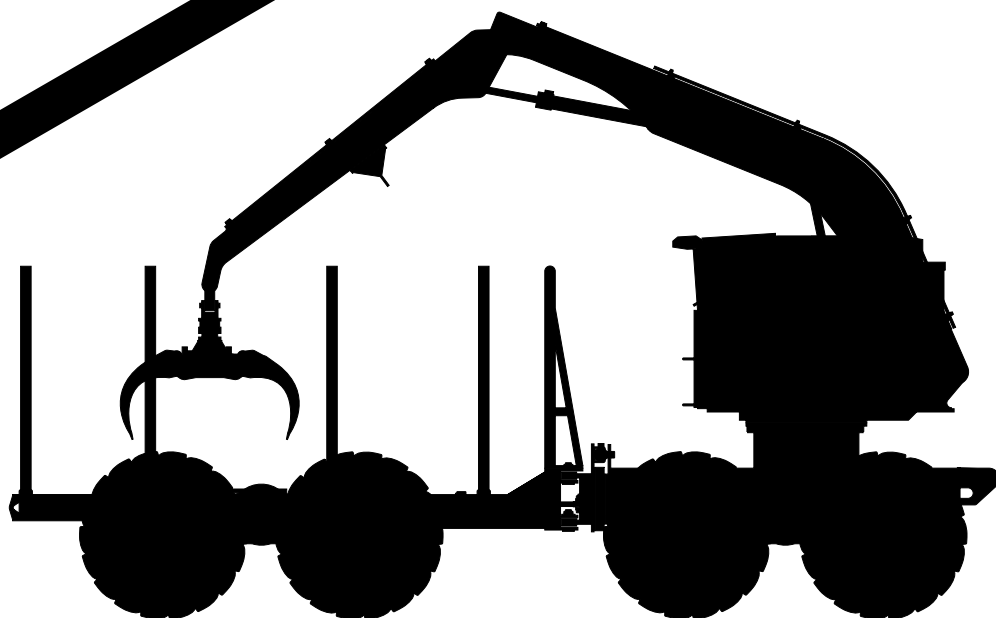




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Shawano, WI 54166

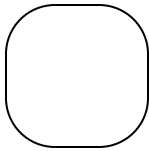
***"Built By Loggers
For Loggers"***

**OEM Replacement
Parts Manual
TF820-D
HYDRO-SKIDDER**



**REVISION - 08/2000
PN# 22558**

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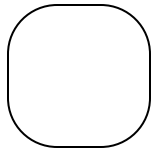
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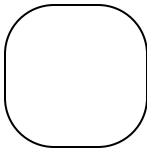
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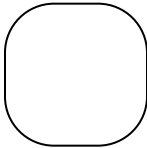
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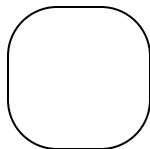
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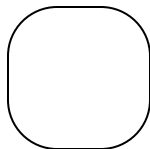
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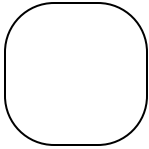
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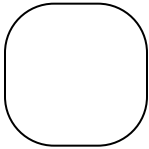
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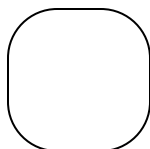
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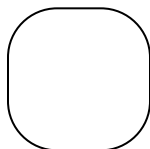
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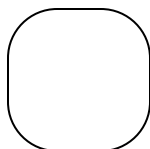
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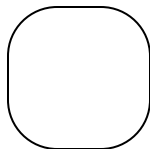
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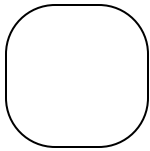
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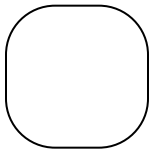
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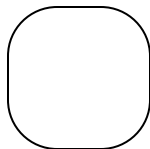
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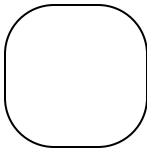
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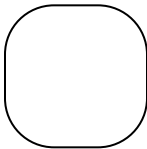
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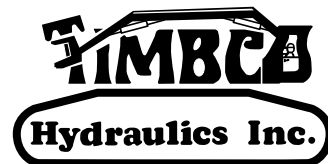


Vendor information (Blue Sheets)

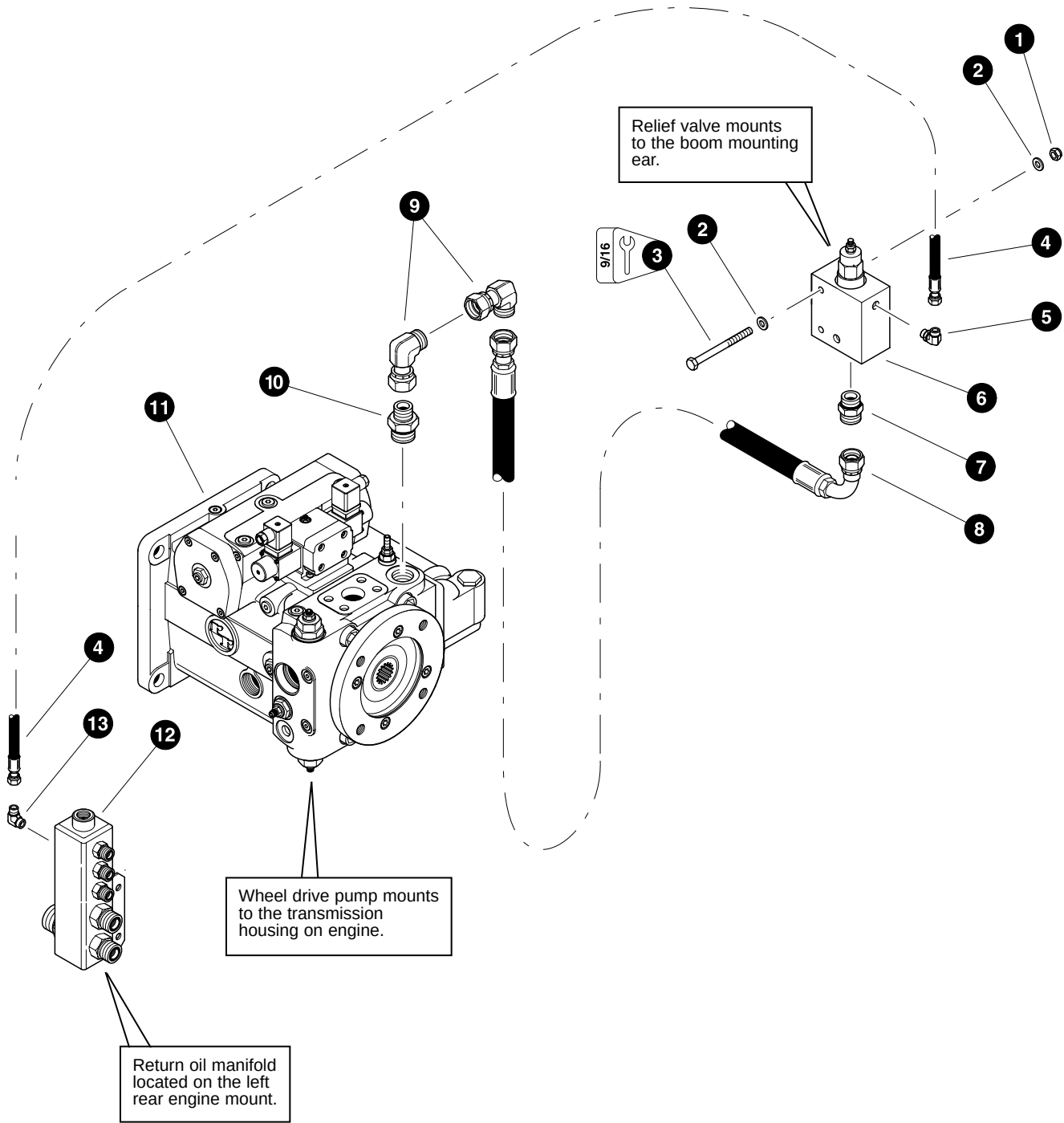
- Section A - Loader Implement Valve - VOAC
- Section B - Clam Bunk Valve - Danfoss
- Section C - Transfer Case - Funk (Not Available - Contact Dealer for Information)
- Section D - Front Axle - NAF
- Section E - Rear Axle - NAF
- Section F - Grapple & Rotator - Hultdin's

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Section B.1



Hydraulic Circuits - System Pilot Pressure

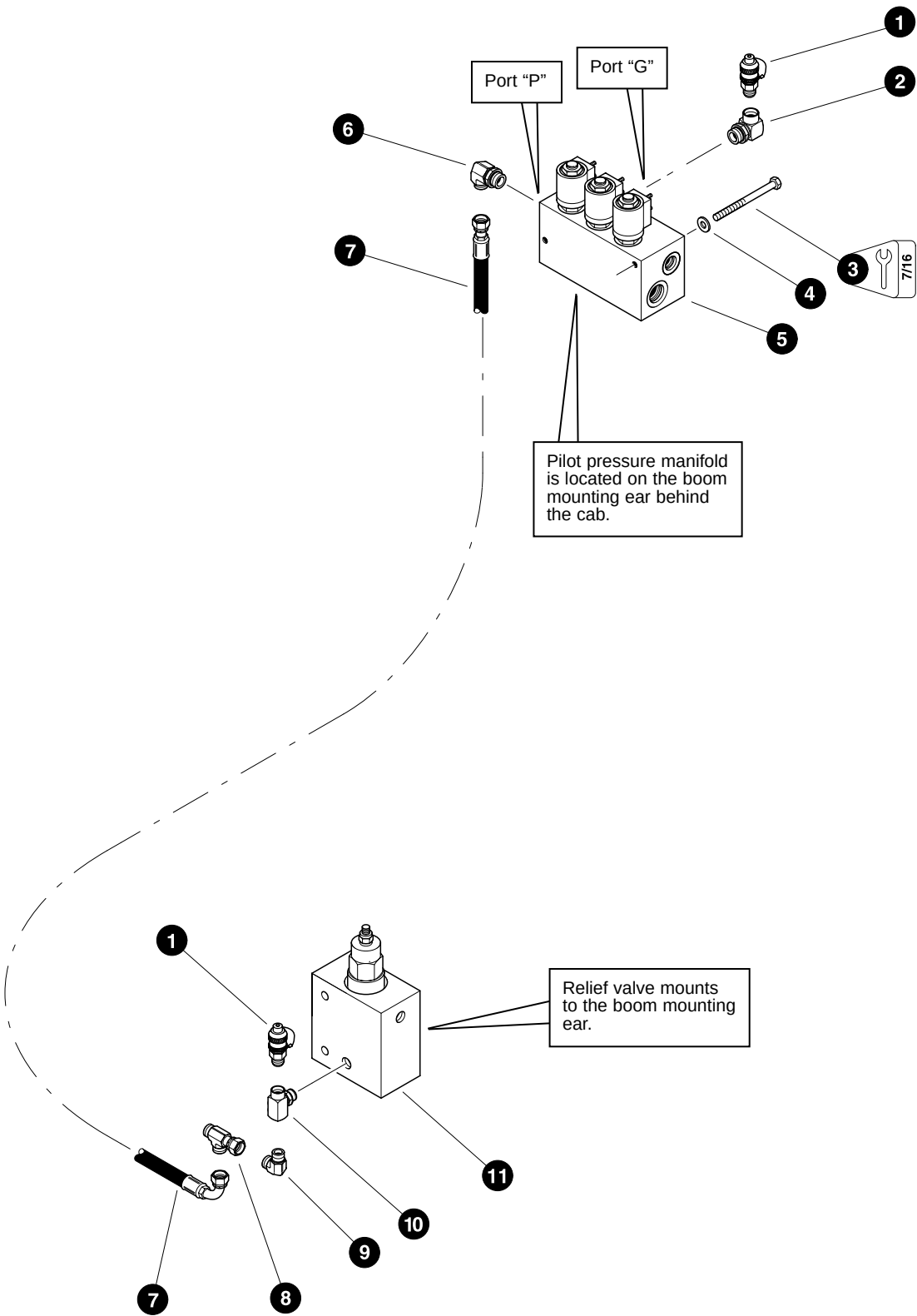


SYSTEM PILOT LINES - PRESSURE

(Wheel Drive Pump To Relief Valve)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15507	2		NUT, nylock - 3/8"	
2	15528	4		WASHER, SAE flat - 3/8"	
3	10753	2		BOLT - 3/8" x 4-1/2"	
4	20080	1		HOSE ASSEMBLY - 2071-04-040S-040S (Relief valve drain to return oil manifold)	
5	15133	1		ELBOW, 90° - FF1868T-0406S	
6	REF.	1	✓	RELIEF VALVE	D.1.2
7	15152	1		CONNECTOR, straight - FF1852T-1212S	
8	20473	1		HOSE ASSEMBLY - 2034.5-12-120S-1209 (Wheel drive pump pressure port to relief valve)	
9	17670	2		ELBOW, 90° swivel - FF2098T-1212S	
10	15226	1		CONNECTOR, straight - FF1852T-1216S	
11	REF.	1	✓	WHEEL DRIVE PUMP	C.3.2
12	18584	1		MANIFOLD, return oil	
13	15505	1		ELBOW, 90° - FF2032T-0404S	

✓ See referenced page for component or assembly breakdown.

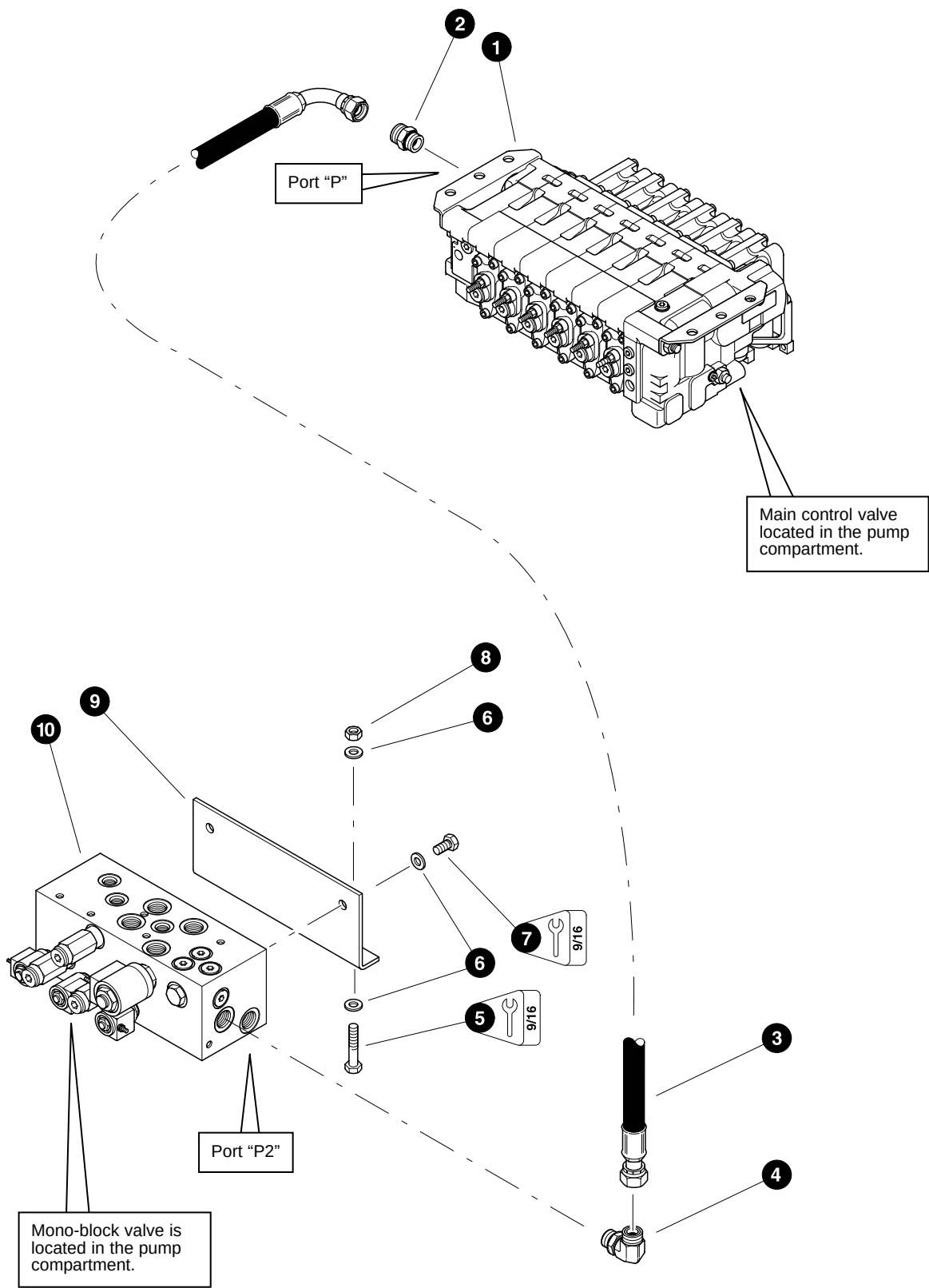


SYSTEM PILOT LINES - PRESSURE

(Relief Valve To Pilot Pressure Manifold)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15118	2		TAP, gauge port - 1/4" pipe thread	
2	16639	1		ELBOW, 90° - 6805-4-4	
3	10818	2		BOLT - 1/4" x 3"	
4	10757	2		WASHER, SAE flat - 1/4"	
5	REF.	1	✓	PILOT PRESSURE MANIFOLD	D.1.4
6	15133	1		ELBOW, 90° - FF1868T-0406S	
7	20082	1		HOSE ASSEMBLY - 2036.5-04-040S-0409 (Relief valve to pilot pressure manifold port "P")	
8	15176	1		TEE - FF2114T-0404S	
9	15505	1		ELBOW, 90° - FF2032T-0404S	
10	17768	1		TEE - 6855-6-4	
11	REF.	1	✓	RELIEF VALVE	D.1.2

✓ See referenced page for component or assembly breakdown.



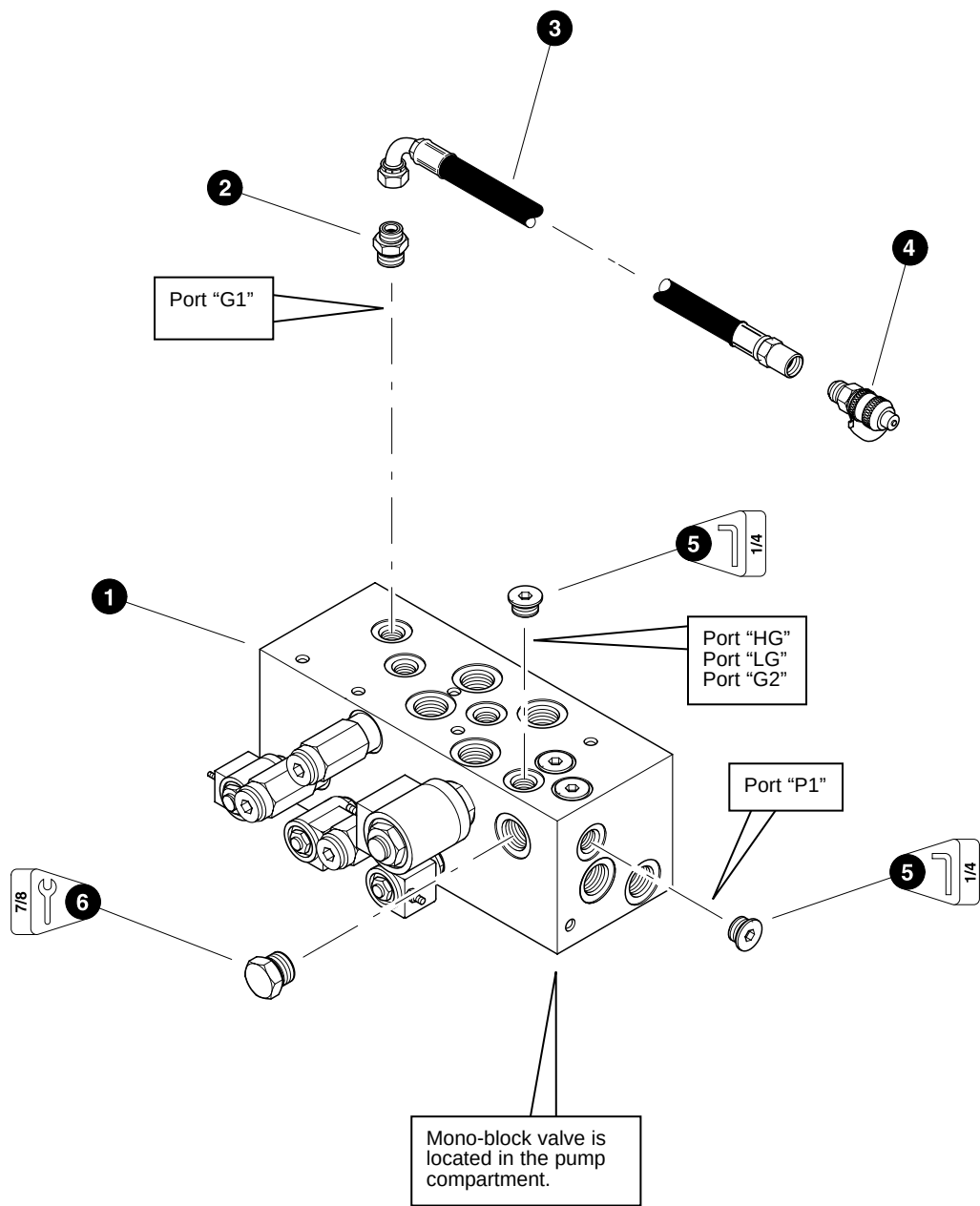
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SYSTEM PILOT LINES - PRESSURE

(Main Control Valve To Mono-Block Valve)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	15115	1		CONNECTOR, straight - FF1852T-0810S	
3	20083	1		HOSE ASSEMBLY - 4039-08-080S-0809 (Main control valve port "P" to mono-block valve port "P2")	
4	16360	1		ELBOW, 90° - FF1868T-0808S	
5	15529	2		BOLT - 3/8" x 2"	
6	15528	6		WASHER, SAE flat - 3/8"	
7	15542	2		BOLT - 3/8" x 3/4"	
8	10813	2		NUT, lock - 3/8"	
9	20601	1		BRACKET, mono-block mounting	
10	REF.	1	✓	MONO-BLOCK VALVE	D.1.6

✓ See referenced page for component or assembly breakdown.

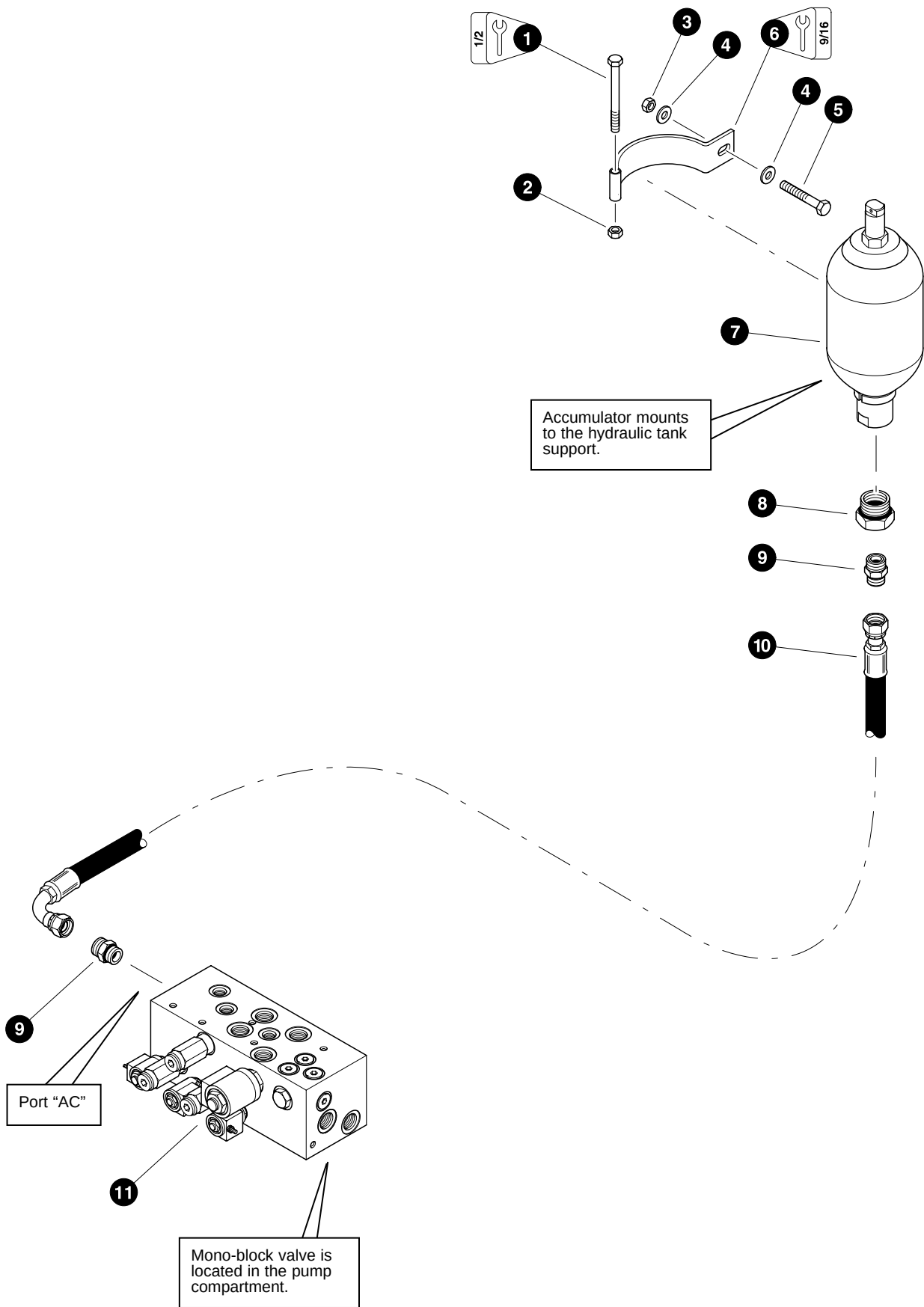


SYSTEM PILOT LINES - PRESSURE

(Mono-Block Valve Gauge Lines & Plugs)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MONO-BLOCK VALVE	D.1.6
2	15124	1		CONNECTOR, straight - FF1852T-0406S	
3	18065	1		HOSE ASSEMBLY - 2013-04-04PF-0409 (Mono-block valve port "G1" to gauge port tap)	
4	15118	1		TAP, gauge port - 1/4" pipe thread	
5	15412	4		PLUG - 6408-HHP-6	
6	11384	1		PLUG - 6408-8	

✓ See referenced page for component or assembly breakdown.

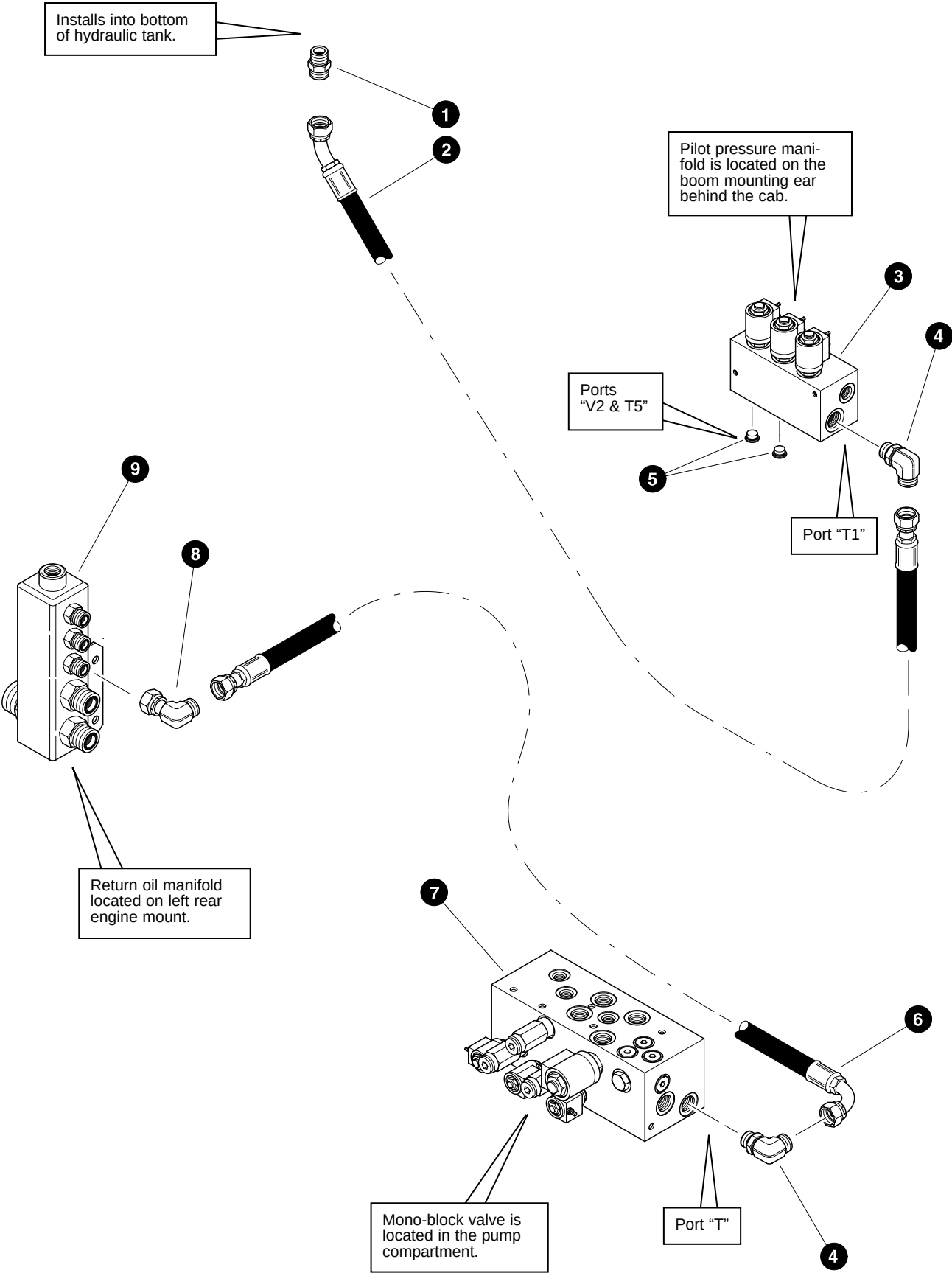


Parts 00491 03/14/98
25.00

SYSTEM PILOT LINES - PRESSURE (Accumulator Charging Line)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	15668	1	BOLT - 5/16" x 4"	
2	10812	1	NUT, lock - 5/16"	
3	10813	1	NUT, lock - 3/8"	
4	10802	2	WASHER, flat - 3/8"	
5	19447	1	CLAMP, accumulator mounting	
6	10702	1	BOLT - 3/8" x 2-1/2"	
7	18862	1	ACCUMULATOR (1,000 psi [13 780 kPa] pre-charge)	
8	16719	1	BUSHING, reducer - 6410-16-8	
9	15117	2	CONNECTOR, straight - FF1852T-0808S	
10	20088	1	HOSE ASSEMBLY - 2050-08-080S-0809 (Mono-block valve port "AC" to accumulator)	
11	REF.	1	✓ MONO-BLOCK VALVE	D.1.6

✓ See referenced page for component or assembly breakdown.



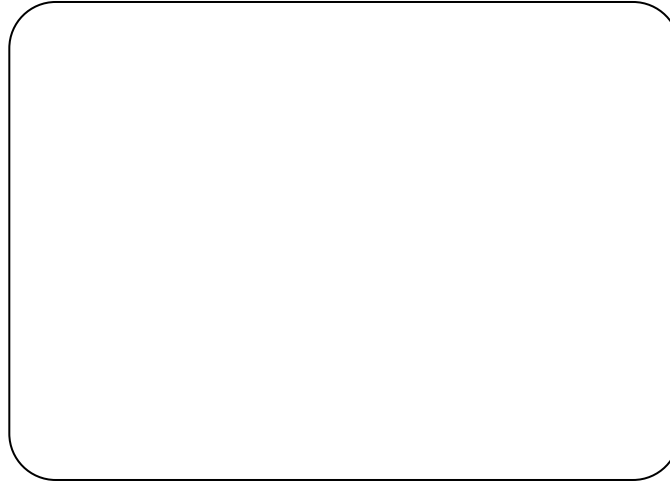
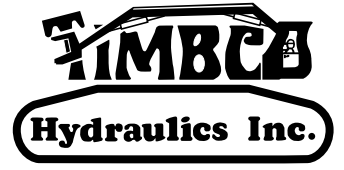
SYSTEM PILOT LINES - RETURN

(Mono-Block Valve & Pilot Pressure Manifold To Tank)

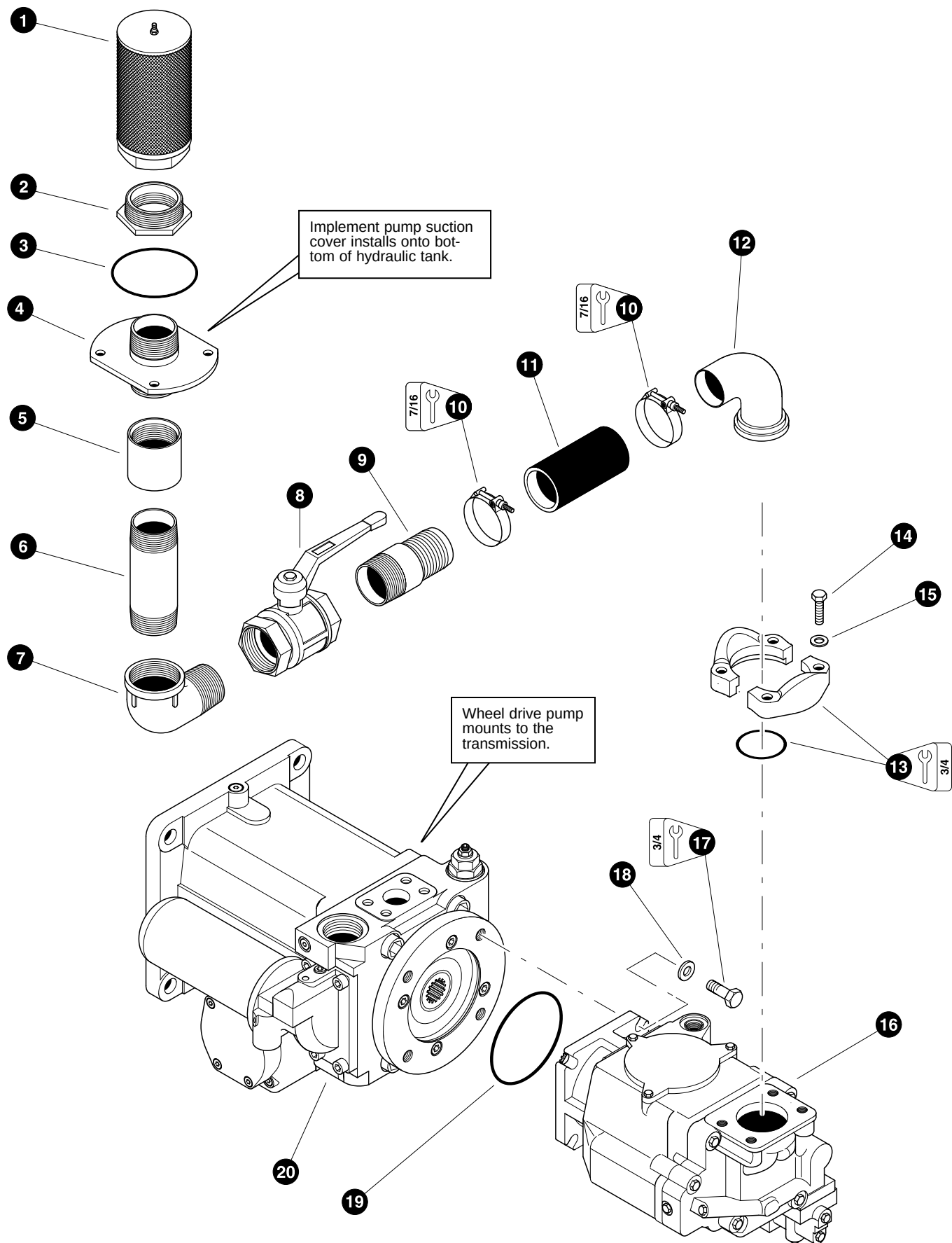
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15258	1		CONNECTOR, straight - FF2031T-0808S	
2	20094	1		HOSE ASSEMBLY - 2064.5-08-080S-080S (Pilot pressure manifold port "T1" to bottom of hydraulic tank)	
3	REF.	1	✓	PILOT PRESSURE MANIFOLD	D.1.4
4	16360	2		ELBOW, 90° - FF1868T-0808S	
5	15412	2		PLUG - 6408-HHP-6	
6	20471	1		HOSE ASSEMBLY - 2019-08-080S-0809 (Mono-block valve port "T" to return oil manifold)	
7	REF.	1	✓	MONO-BLOCK VALVE	D.1.6
8	16297	1		ELBOW, 90° swivel - FF2098T-0808S	
9	17547	1		MANIFOLD, return oil	

✓ See referenced page for component or assembly breakdown.

Section B.2



Hydraulic Circuits - Loader Implements



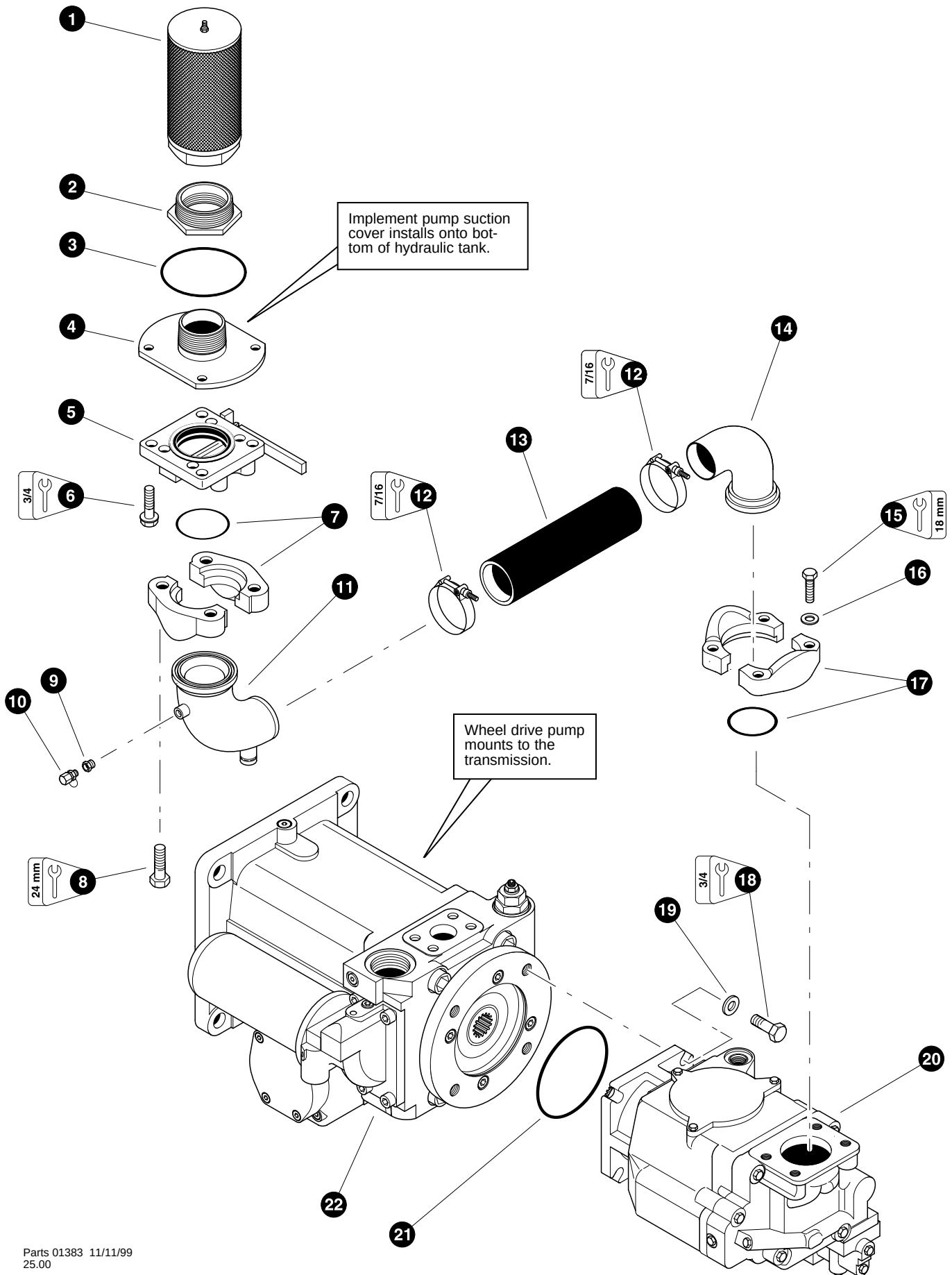
Parts 00431 02/03/98
25.00

IMPLEMENT PUMP SUCTION LINE

(Used on machines PDN# 095FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15842	1		FILTER, screen - implement suction	
2	16327	1		BUSHING, black reducer - 3" x 2-1/2"	
3	15448	1		O-RING	
4	REF.	1	✓	IMPLEMENT FILTER COVER (<i>Installed from bottom</i>)	E.1.2
5	18460	1		COUPLING, pipe - 2-1/2"	
6	20453	1		NIPPLE, pipe - 2-1/2" x 6"	
7	16956	1		ELBOW, 90° black street - 2-1/2"	
8	15189	1		VALVE, ball - 2-1/2"	
9	16957	1		NIPPLE, king - 2-1/2"	
10	15190	2		CLAMP, strap band - 3-1/8"	
11	20143	1		HOSE, suction - 2-1/2" x 13-1/2"	
12	12192	1		TUBE, suction (<i>Used on machines PDN# 054FWD and above</i>)	
	17098	1		TUBE, suction (<i>Used on machines PDN# 053FWD and below</i>)	
13	15193	1	□	KIT, split flange - 2-1/2" (Code 61)	
	15390	1		O-RING - 2-1/2" SF	
14	18933	1		BOLT - 1/2" x 1-3/4"	
15	15534	4		WASHER, SAE flat - 1/2"	
16	REF.	1	✓	LOADER PUMP	C.2.2
17	10739	4		BOLT - 1/2" x 1-1/2"	
18	15534	4		WASHER, SAE flat - 1/2"	
19	16106			O-RING	
20	REF.	1	✓	WHEEL DRIVE PUMP	C.3.2

- ✓ See referenced page for component or assembly breakdown.
 > Bulk material - order length required in feet or metres.
 □ Kit or Assembly - includes all items indented underneath.



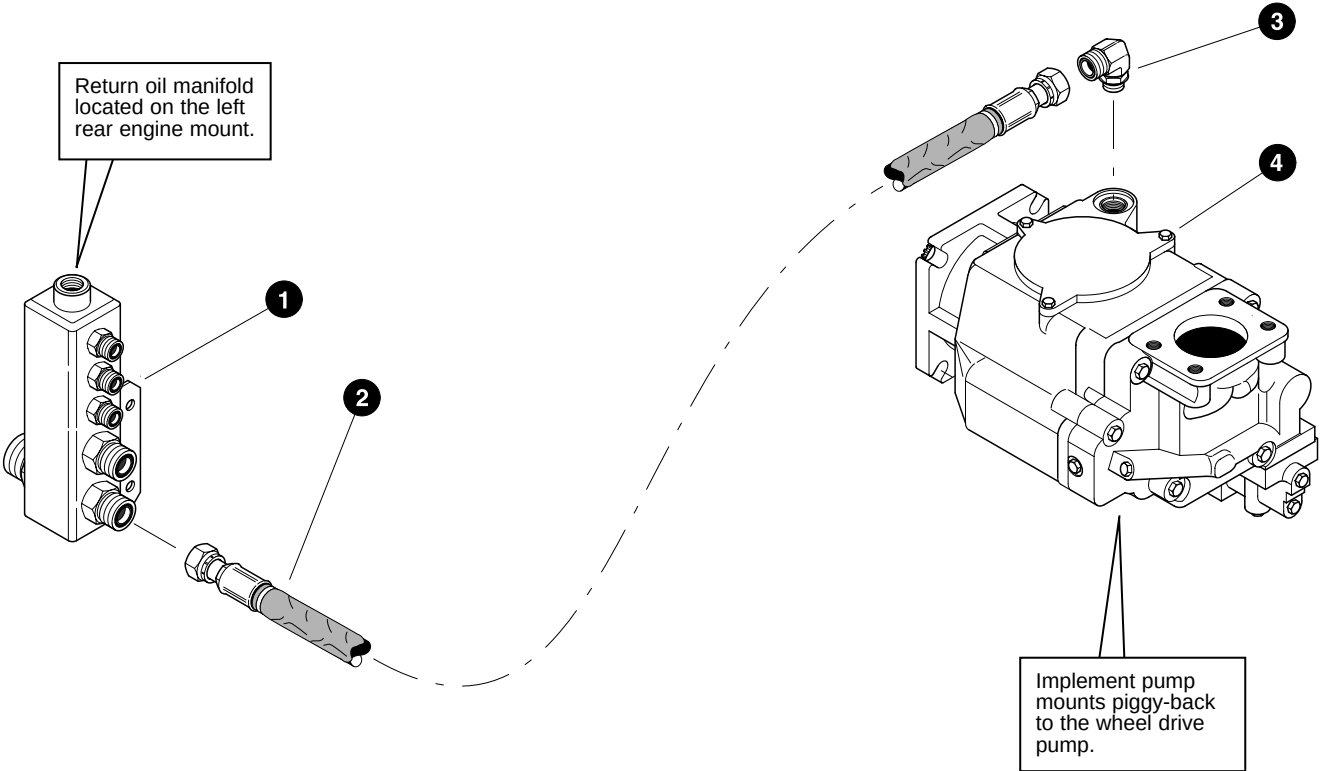
Parts 01383 11/11/99
25.00

IMPLEMENT PUMP SUCTION LINE

(Used on machines PDN# 096FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15842	1		FILTER, screen - implement suction	
2	16327	1		BUSHING, black reducer - 3" x 2-1/2"	
3	15448	1		O-RING	
4	REF.	1	✓	IMPLEMENT FILTER COVER (<i>Installed from bottom</i>)	E.1.2
5	22441	1		VALVE, shut-off - 3" butterfly	
6	22560	4		BOLT, flange - 1/2" x 2"	
7	18306	1	□	KIT, split flange - 3" (Code 61)	
	18695	1		O-RING - 3" SF	
8	22561	4		BOLT - 16mm x 40mm	
9	15574	1		BUSHING, reducer - 5406-4-2	
10	22302	1		VALVE, probalyser (<i>Used to take oil samples</i>)	
11	22460	1		TUBE, tank suction 90°	
12	15190	2		CLAMP, strap band - 3-1/8"	
13	15196	AR	>∞	HOSE, suction - 2-1/2"	
14	12192	1		TUBE, suction 90°	
15	15551	1		BOLT - 12mm x 40mm	
16	15534	4		WASHER, SAE flat - 1/2"	
17	15193	1	□	KIT, split flange - 2-1/2" (Code 61)	
	15390	1		O-RING - 2-1/2" SF	
18	10739	4		BOLT - 1/2" x 1-1/2"	
19	15534	4		WASHER, SAE flat - 1/2"	
20	REF.	1	✓	LOADER PUMP	C.2.2
21	16106			O-RING	
22	REF.	1	✓	WHEEL DRIVE PUMP	C.3.2

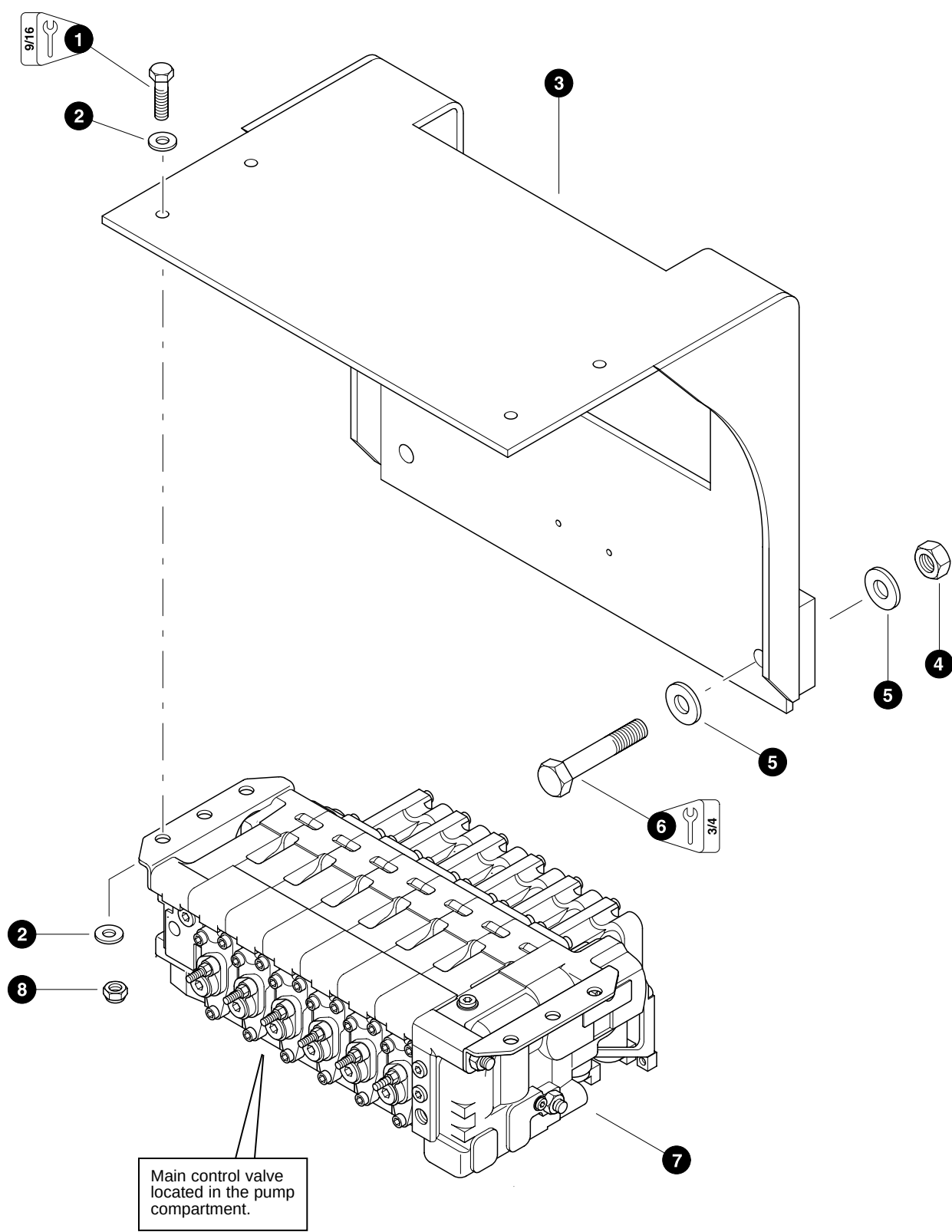
- ✓ See referenced page for component or assembly breakdown.
 >∞ Bulk material - order length required in feet or metres.
 □ Kit or Assembly - includes all items indented underneath.



IMPLEMENT PUMP CASE DRAIN LINE

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	17547	1		MANIFOLD, return oil	
2	20270	1		HOSE ASSEMBLY - 2032-12-120S-120S-W (<i>Implement pump case drain port to return oil manifold</i>)(Used on machines PDN# 054FWD and above)	
	20098	1		HOSE ASSEMBLY - 2037-12-120S-120S (<i>Implement pump case drain port to return oil manifold</i>)(Used on machines PDN# 053FWD and below)	
3	16422	1		ELBOW, 90° - FF1868T-1210S	
4	REF.	1	✓	IMPLEMENT PUMP	C.2.2

✓ See referenced page for component or assembly breakdown.

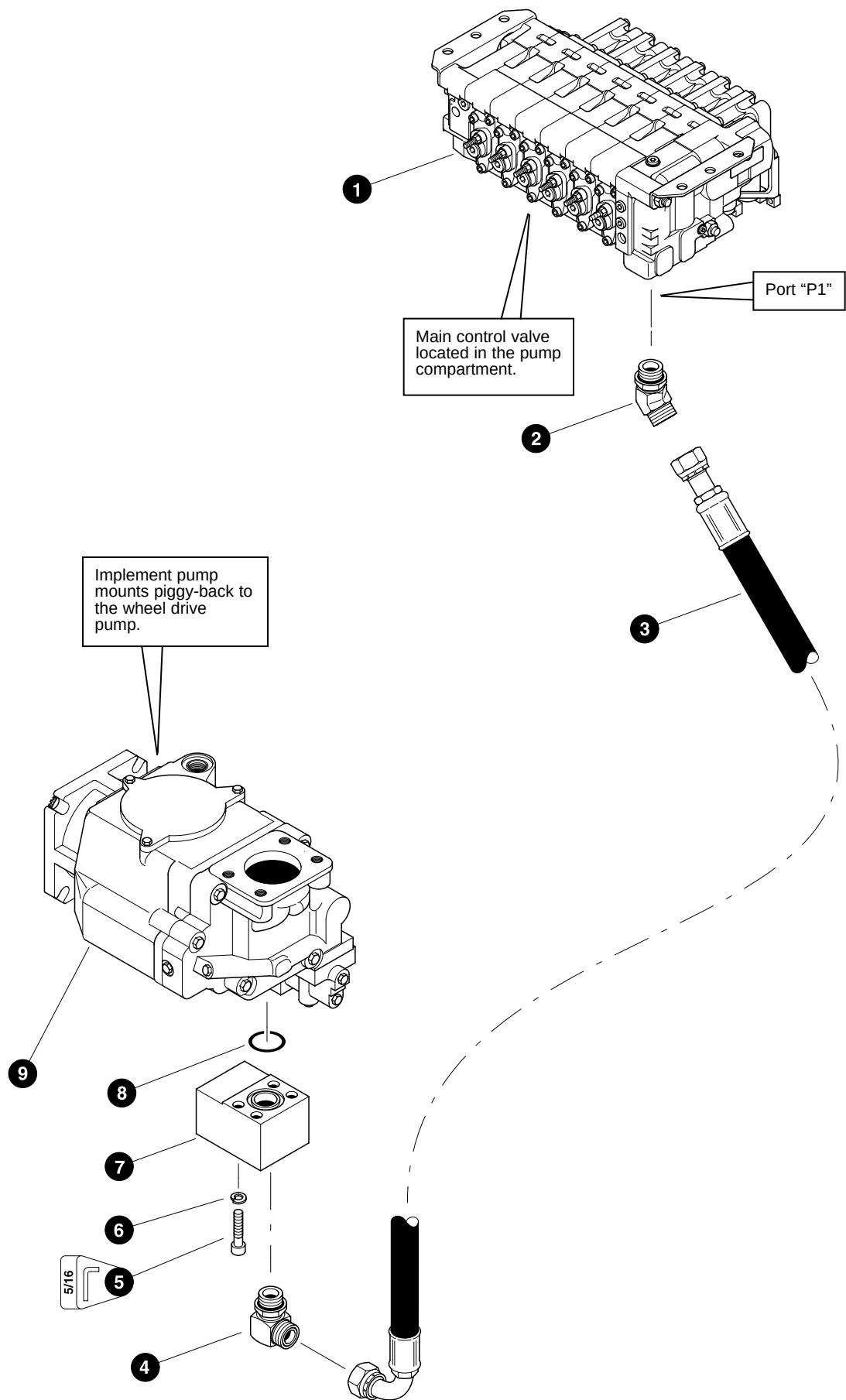


Parts 00160 12/04/96
37.50

MAIN CONTROL VALVE MOUNTING

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	10731	4		BOLT - 3/8" x 1-1/2"	
2	15528	8		WASHER, SAE flat - 3/8"	
3	19439	1		BRACKET, main control valve mounting	
4	10815	2		NUT, lock - 1/2"	
5	15534	4		WASHER, SAE flat - 1/2"	
6	15553	2		BOLT - 1/2" x 3-1/2"	
7	REF.	1	✓	MAIN CONTROL VALVE	Blue A
8	15507	4		NUT, nylock - 3/8"	

✓ See referenced page for component or assembly breakdown.

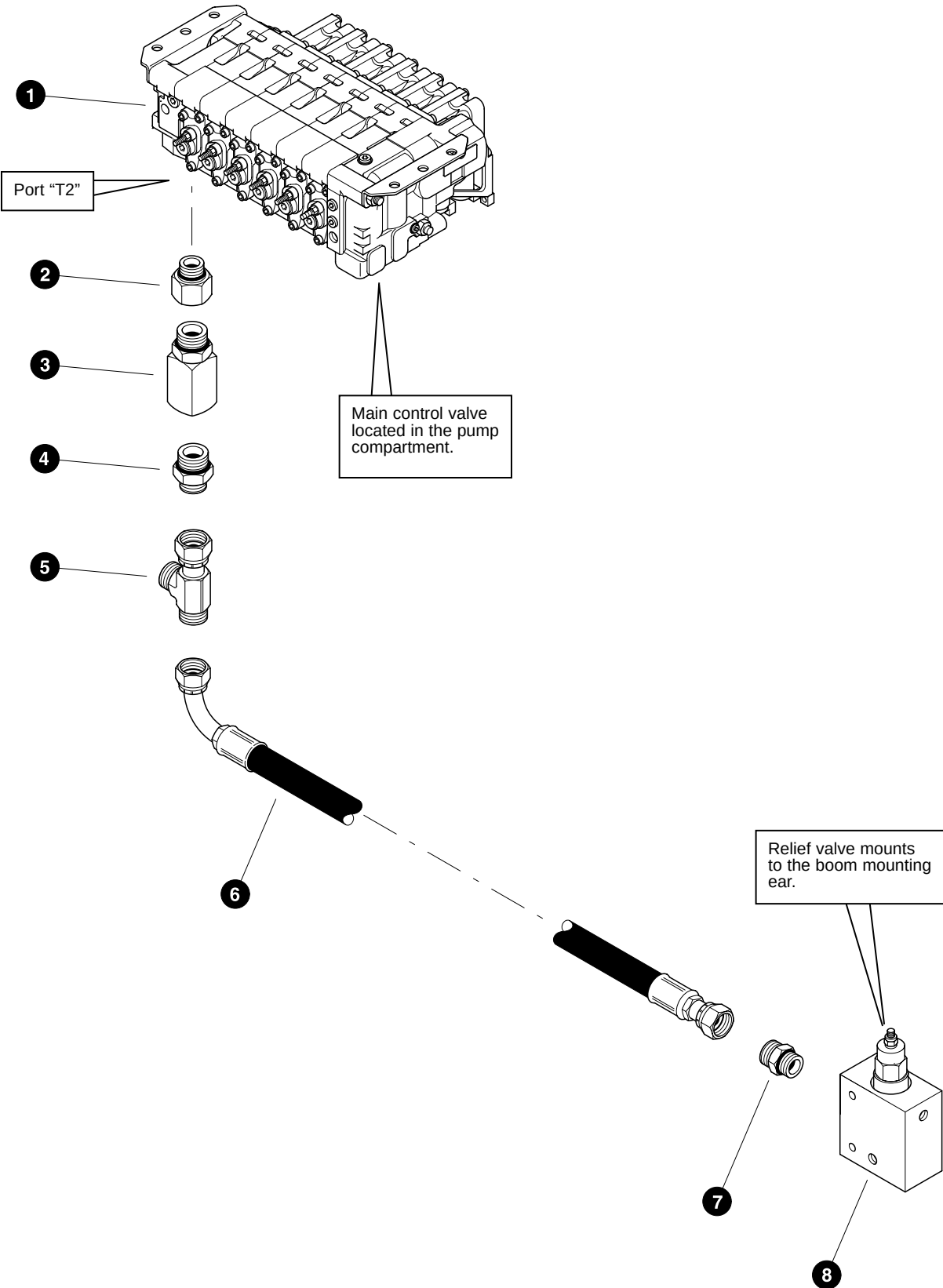


Parts 01129 03/24/99
25.00

IMPLEMENT PUMP PRESSURE LINE TO MAIN CONTROL VALVE

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	19127	1		ELBOW, 45° - FF2068T-1212S	
3	20099	1		HOSE ASSEMBLY - 4018-12-120S-1209 (<i>Implement pump pressure outlet to main control valve pressure inlet port "P1"</i>)	
4	17688	1		ELBOW, 90° - FF1868T-1212S	
5	20973	4		BOLT, allen head - 3/8" x 2-1/2"	
6	10701	4		WASHER, lock - 3/8"	
7	20914	1		MANIFOLD, valve/clam pressure	
8	15377	1		O-RING - 1" SF	
9	REF.	1	✓	IMPLEMENT PUMP	C.2.2

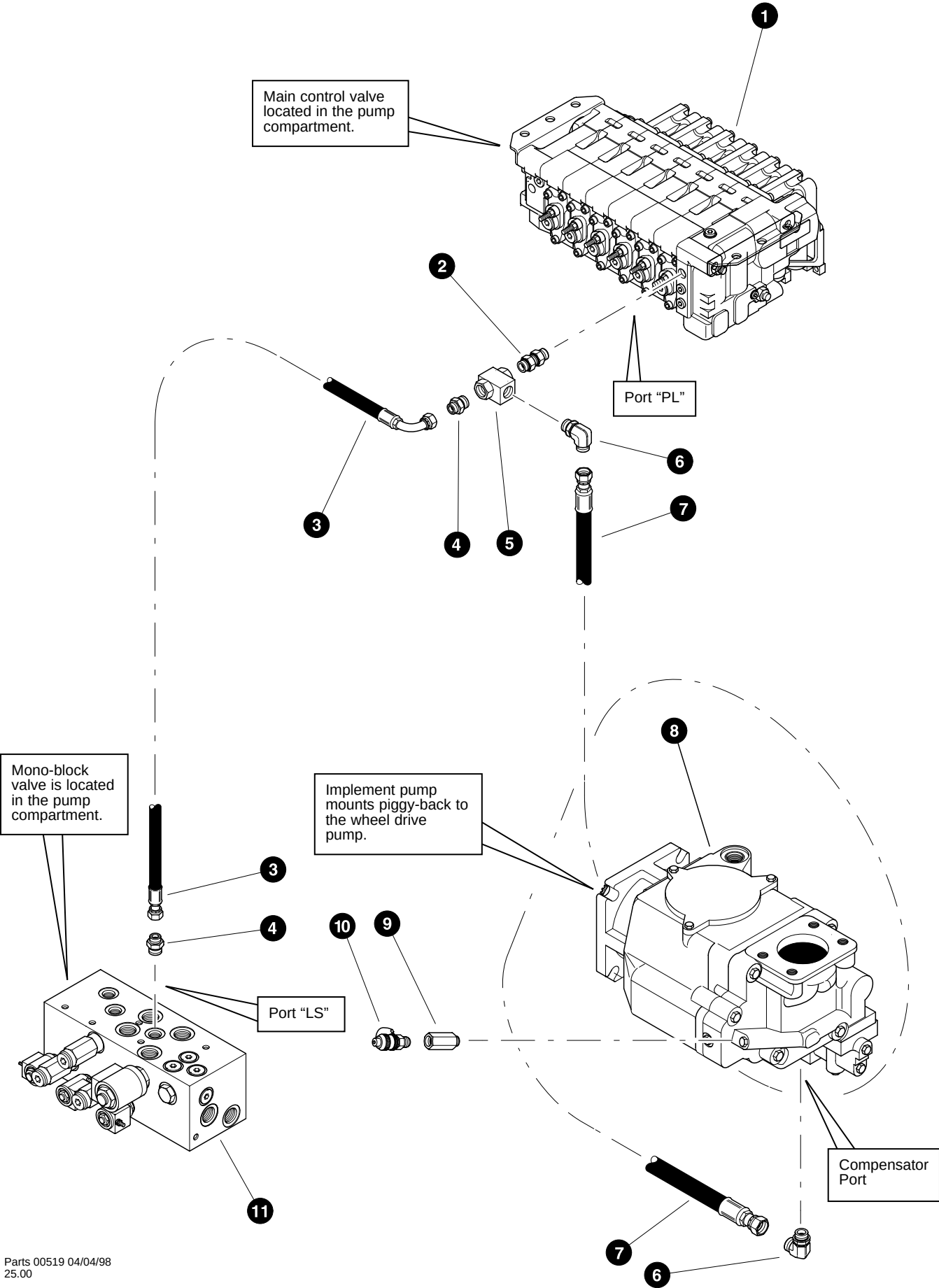
- ✓ See referenced page for component or assembly breakdown.
 □ Kit or Assembly - includes all items indented underneath.



OIL REGENERATION LINE TO MAIN CONTROL VALVE

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	19291	1		BUSHING, reducer - 6410-12-16	
3	21856	1		TEE - 16 AOG5JG5-S	
4	15226	1		CONNECTOR, straight - FF1852T-1216S	
5	17687	1		TEE - FF2114T-1212S	
6	20100	1		HOSE ASSEMBLY - 2021.5-12-120S-1209 (<i>Relief valve to main control valve regeneration port "T2"</i>)	
7	15152	1		CONNECTOR, straight - FF1852T-1212S	
9	REF.	1	✓	RELIEF VALVE	B.1.2

✓ See referenced page for component or assembly breakdown.



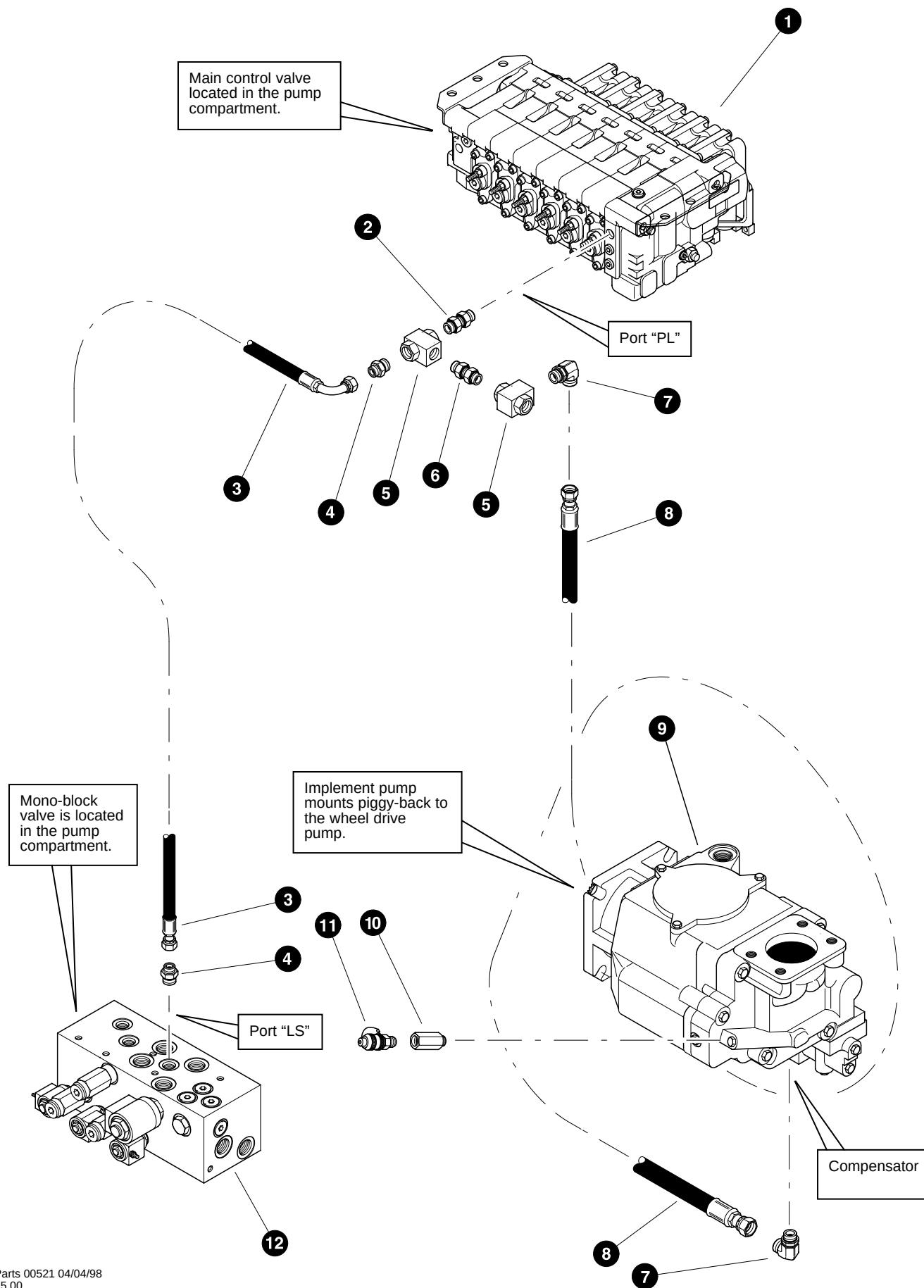
Parts 00519 04/04/98
25.00

MAIN CONTROL VALVE LOAD SENSE LINES

(Without Optional Clam Bunk Installed)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	20679	1		CONNECTOR, straight - 6403-NWO-6 (<i>w/.028" orifice</i>)	
3	20082	1		HOSE ASSEMBLY - 2036.5-04-040S-0409 (<i>Mono-block port "PL" to load sense shuttle</i>)	
4	15124	2		CONNECTOR, straight - FF1852T-0406S	
5	20265	1		VALVE, shuttle - load sense signal	
6	16296	2		ELBOW, 90° - FF1868T-0606S	
7	20538	1		HOSE ASSEMBLY - 2089-06-060S-060S (<i>Load sense shuttle to implement pump compensator port, hose is looped to provide shock absorber effect on signal</i>)	
8	REF.	1	✓	IMPLEMENT PUMP	C.2.2
9	16911	1		CONNECTOR, straight - 7455-2-10mm	
10	16910	1		TAP, gauge port - 1/8" pipe thread	
11	REF.	1	✓	MONO-BLOCK VALVE	D.1.6

✓ See referenced page for component or assembly breakdown.



Port "PL"

Mono-block valve is located in the pump compartment.

Implement pump
mounts piggy-back to
the wheel drive
pump.

Port "LS"

Compensator

Parts 00521 04/04/98
25.00

MAIN CONTROL VALVE LOAD SENSE LINES

(With Optional Clam Bunk Installed)

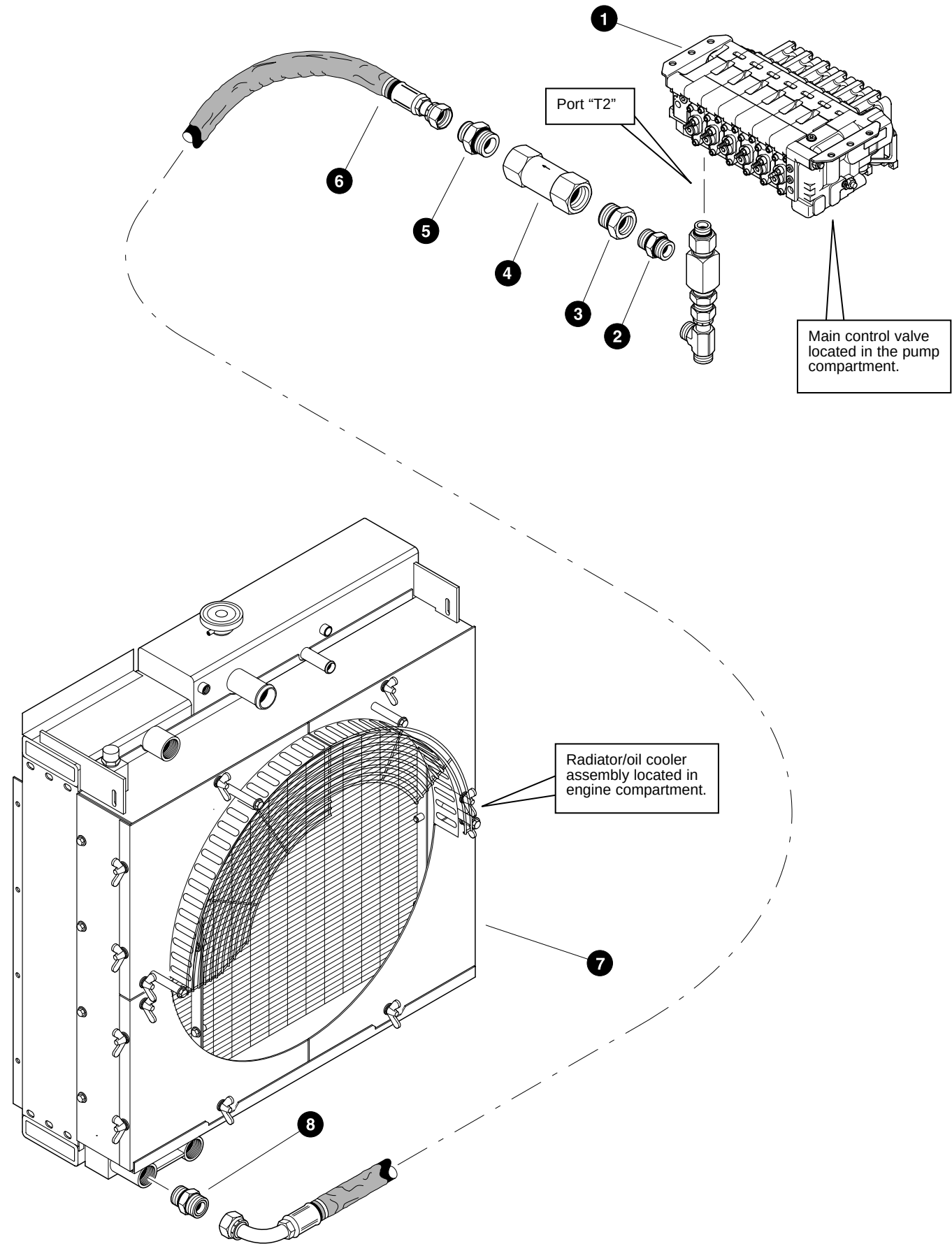
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	20679	1		CONNECTOR, straight - 6403-NWO-6 (<i>w/.028" orifice</i>)	
3	20082	1		HOSE ASSEMBLY - 2036.5-04-040S-0409 (<i>Mono-block port "PL" to load sense shuttle</i>)	
4	15124	2		CONNECTOR, straight - FF1852T-0406S	
5	20265	2		VALVE, shuttle - load sense signal	
6	19366	1		CONNECTOR, straight - 6403-NWO-6	
7	16296	2		ELBOW, 90° - FF1868T-0606S	
8	20538	1		HOSE ASSEMBLY - 2089-06-060S-060S (<i>Load sense shuttle to implement pump compensator port, hose is looped to provide a shock absorber effect on the signal</i>)	
9	REF.	1	✓	IMPLEMENT PUMP	C.2.2
10	16911	1		CONNECTOR, straight - 7455-2-10mm	
11	16910	1		TAP, gauge port - 1/8" pipe thread	
12	REF.	1	✓	MONO-BLOCK VALVE	D.1.6

✓ See referenced page for component or assembly breakdown.

MAIN CONTROL VALVE LOAD SENSE DRAIN LINE

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	15124	1		CONNECTOR, straight - FF1852T-0406S	
3	20103	1		HOSE ASSEMBLY - 2052-04-040S-040S (<i>Main control valve port "LSP" to pilot pressure manifold port "T2"</i>)	
4	REF.	1	✓	PILOT PRESSURE MANIFOLD	D.1.4
5	15133	1		ELBOW, 90° - FF1868T-0406S	

✓ See referenced page for component or assembly breakdown.

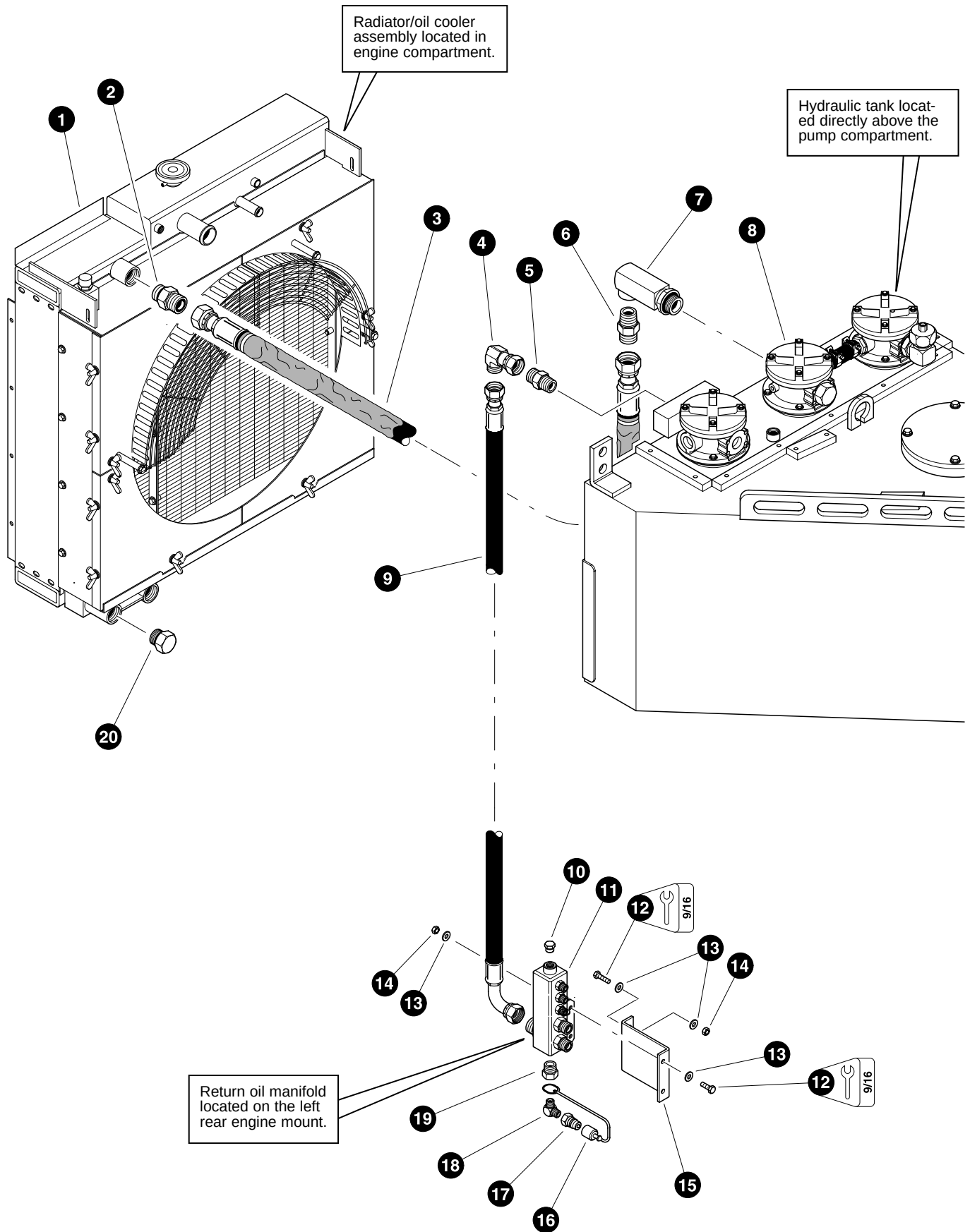


Parts 01131 03/24/99
18.75

RETURN LINES - MAIN CONTROL VALVE TO OIL COOLER

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	19473	1		CONNECTOR, straight - 6403-16	
3	17015	1		BUSHING, reducer - 6410-20-16	
4	21145	1		VALVE, check - 150 psi	
5	19450	1		CONNECTOR, straight - 16-20 F50L0-S	
6	20820	1		HOSE ASSEMBLY - 2078-16-160S-1609 (<i>Main control valve return outlet check valve to oil cooler bottom port</i>)	
7	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
8	15225	1		CONNECTOR, straight - FF1852T-1616S	

✓ See referenced page for component or assembly breakdown.

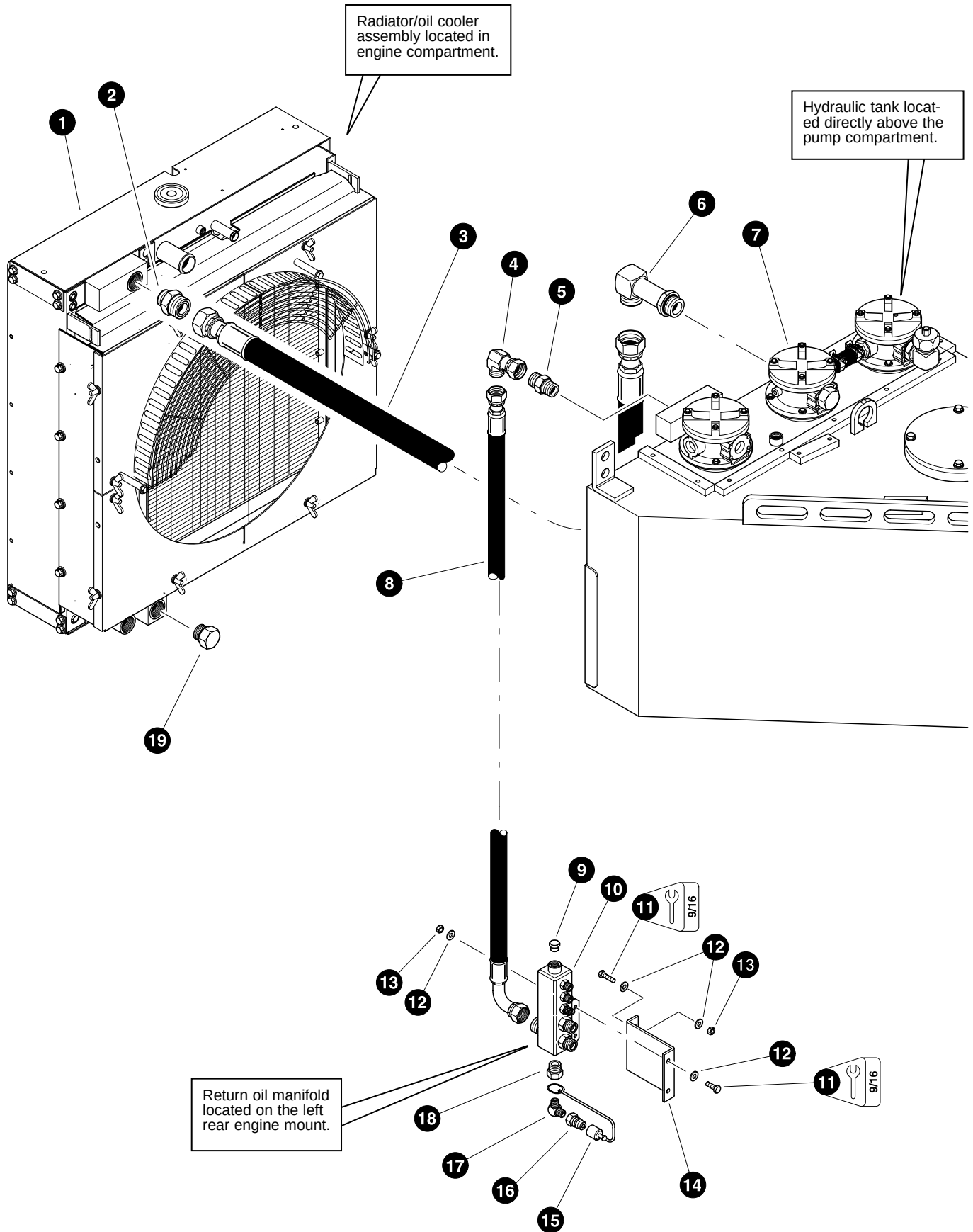


RETURN LINES - OIL COOLER & MAINIFOLD TO TANK (Cummins 6C8.3-C260 Engine)

(Used on machines PDN# 090FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
2	17344	1		CONNECTOR, straight - FF1852T-2020S	
3	18903	1		HOSE ASSEMBLY - 2066-20-200S-200S (<i>Oil cooler top port to center return filter</i>)	
4	17682	1		ELBOW, 90° swivel - FF2098T-1616S	
5	15179	1		CONNECTOR, straight - FF2031T-1616S	
6	17057	1		CONNECTOR, straight - FF2031T-2020S	
7	18743	1		ELBOW, 90° - 2725-FSO-2420	
8	REF.	1	✓	HYDRAULIC TANK ASSEMBLY	E.1.2
9	20105	1		HOSE ASSEMBLY - 2050-16-160S-1609 (<i>Return oil manifold to case drain return filter manifold</i>)	
10	10751	1		PLUG - 5406-P-8	
11	17547	1		MANIFOLD, return line	
12	10731	4		BOLT - 3/8" x 1-1/2"	
13	15528	8		WASHER, SAE flat - 3/8"	
14	10813	4		NUT, lock - 3/8"	
15	20107	1		BRACKET, return manifold mount	
16	17323M	1		COVER, dust - quick-disconnect (<i>Male</i>)	
17	17307M	1		QUICK-DISCONNECT - 1/2" (<i>Male</i>)	
18	17487	1		ELBOW, 90° - 5500-8	
19	15513	1		BUSHING, reducer - 5406-12-8	
20	16034	1		PLUG - FF9767-16S	

✓ See referenced page for component or assembly breakdown.



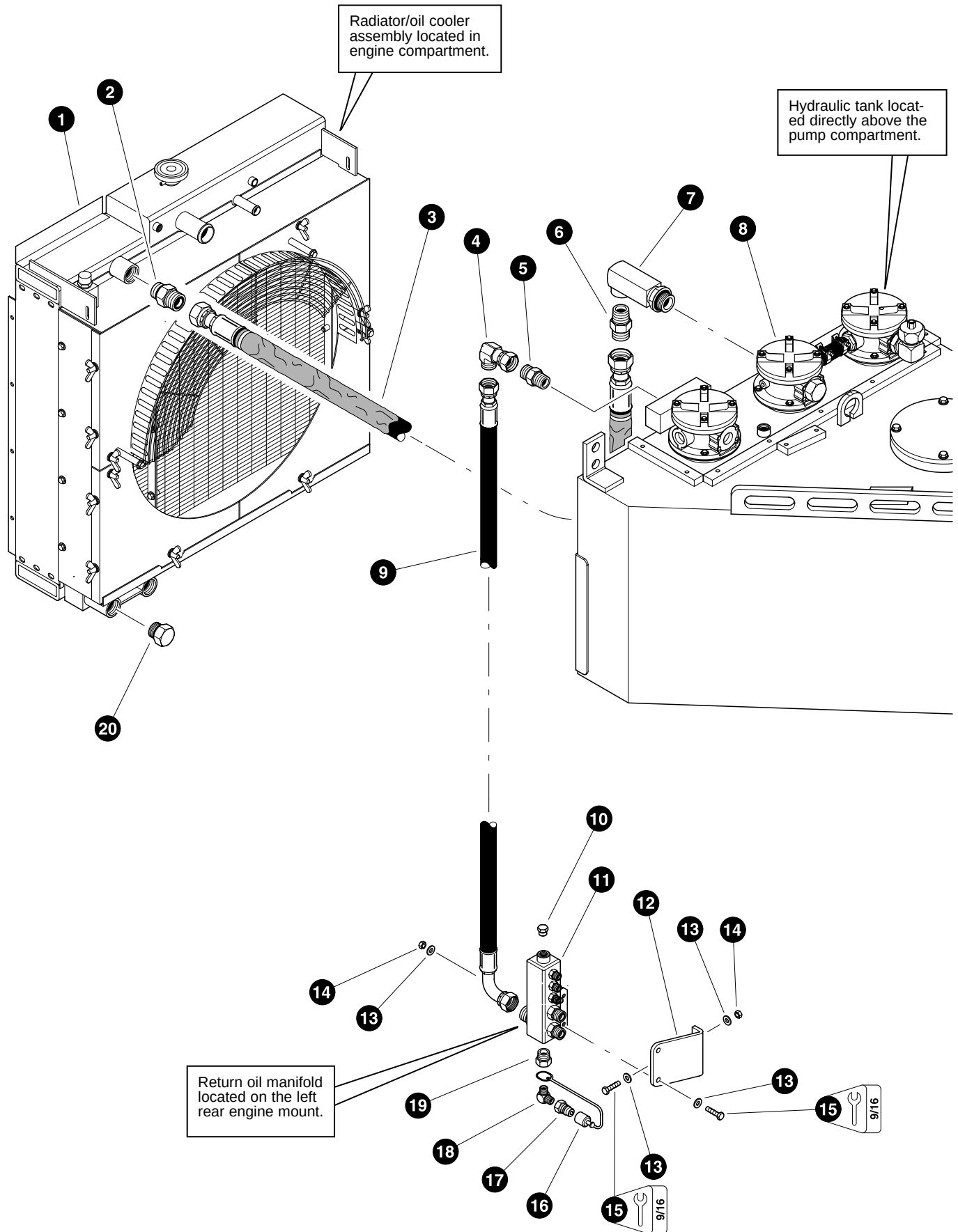
Parts 01253 07/29/99
18.75

RETURN LINES - OIL COOLER & MAINIFOLD TO TANK (Cummins 6C8.3-C260 Engine)

(Used on machines PDN# 091FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
2	22448	1		CONNECTOR, straight - 848-TTO-24x24 <i>(Used on machines PDN# 099FWD and above)</i>	
	22447	1		CONNECTOR, straight - 848-TTO-24x20 <i>(Used on machines PDN# 098FWD and below)</i>	
3	18903	1		HOSE ASSEMBLY - 2066-20-200S-200S <i>(Oil cooler top port to center return filter)</i>	
4	17682	1		ELBOW, 90° swivel - FF2098T-1616S	
5	15179	1		CONNECTOR, straight - FF2031T-1616S	
6	22438	1		ELBOW, 90° - 849L-TTO-24x24	
7	REF.	1	✓	HYDRAULIC TANK ASSEMBLY	E.1.2
8	20105	1		HOSE ASSEMBLY - 2050-16-160S-1609 <i>(Return oil manifold to case drain return filter manifold)</i>	
9	10751	1		PLUG - 5406-P-8	
10	17547	1		MANIFOLD, return line	
11	10731	4		BOLT - 3/8" x 1-1/2"	
12	15528	8		WASHER, SAE flat - 3/8"	
13	10813	4		NUT, lock - 3/8"	
14	20107	1		BRACKET, return manifold mount	
15	17323M	1		COVER, dust - quick-disconnect <i>(Male)</i>	
16	17307M	1		QUICK-DISCONNECT - 1/2" <i>(Male)</i>	
17	17487	1		ELBOW, 90° - 5500-8	
18	15513	1		BUSHING, reducer - 5406-12-8	
19	16034	1		PLUG - FF9767-16S	

✓ See referenced page for component or assembly breakdown.

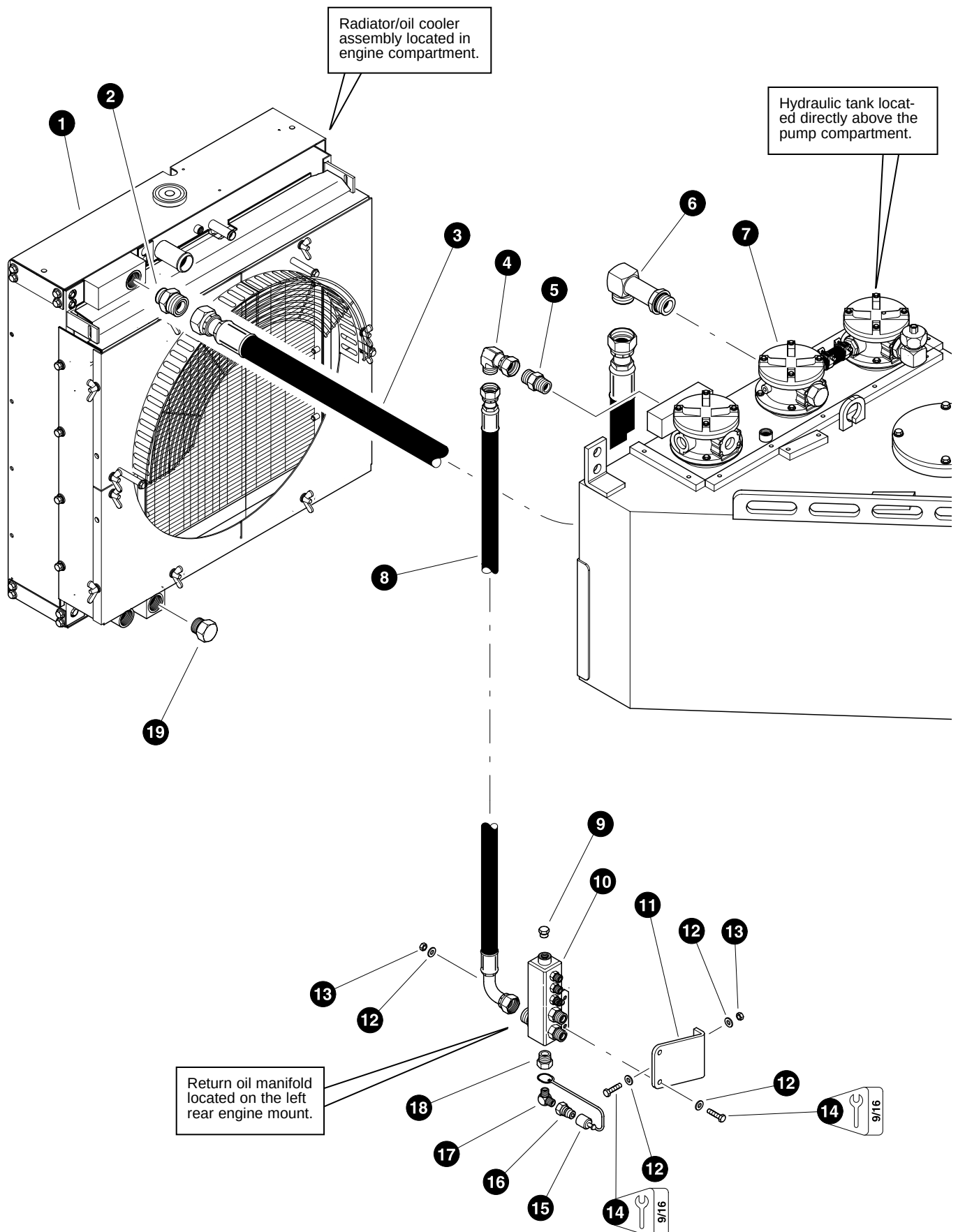


RETURN LINES - OIL COOLER & MAINIFOLD TO TANK (Caterpillar 3116T/3126T Engines)

(Used on machines PDN# 090FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
2	17344	1		CONNECTOR, straight - FF1852T-2020S	
3	20106	1		HOSE ASSEMBLY - 2070-20-200S-2004 (<i>Oil cooler top port to center return filter</i>)	
4	17682	1		ELBOW, 90° swivel - FF2098T-1616S	
5	15179	1		CONNECTOR, straight - FF2031T-1616S	
6	17057	1		CONNECTOR, straight - FF2031T-2020S	
7	18743	1		ELBOW, 90° - 2725-FSO-2420	
8	REF.	1	✓	HYDRAULIC TANK ASSEMBLY	E.1.2
9	20105	1		HOSE ASSEMBLY - 2050-16-160S-1609 (<i>Return oil manifold to case drain return filter manifold</i>)	
10	10751	1		PLUG - 5406-P-8	
11	17547	1		MANIFOLD, return line	
12	19183	1		BRACKET, return manifold mount	
13	15528	8		WASHER, SAE flat - 3/8"	
14	10813	4		NUT, lock - 3/8"	
15	10731	4		BOLT - 3/8" x 1-1/2"	
16	17323M	1		COVER, dust - quick-disconnect (<i>Male</i>)	
17	17307M	1		QUICK-DISCONNECT - 1/2" (<i>Male</i>)	
18	17487	1		ELBOW, 90° - 5500-8	
19	15513	1		BUSHING, reducer - 5406-12-8	
20	16034	1		PLUG - FF9767-16S	

✓ See referenced page for component or assembly breakdown.

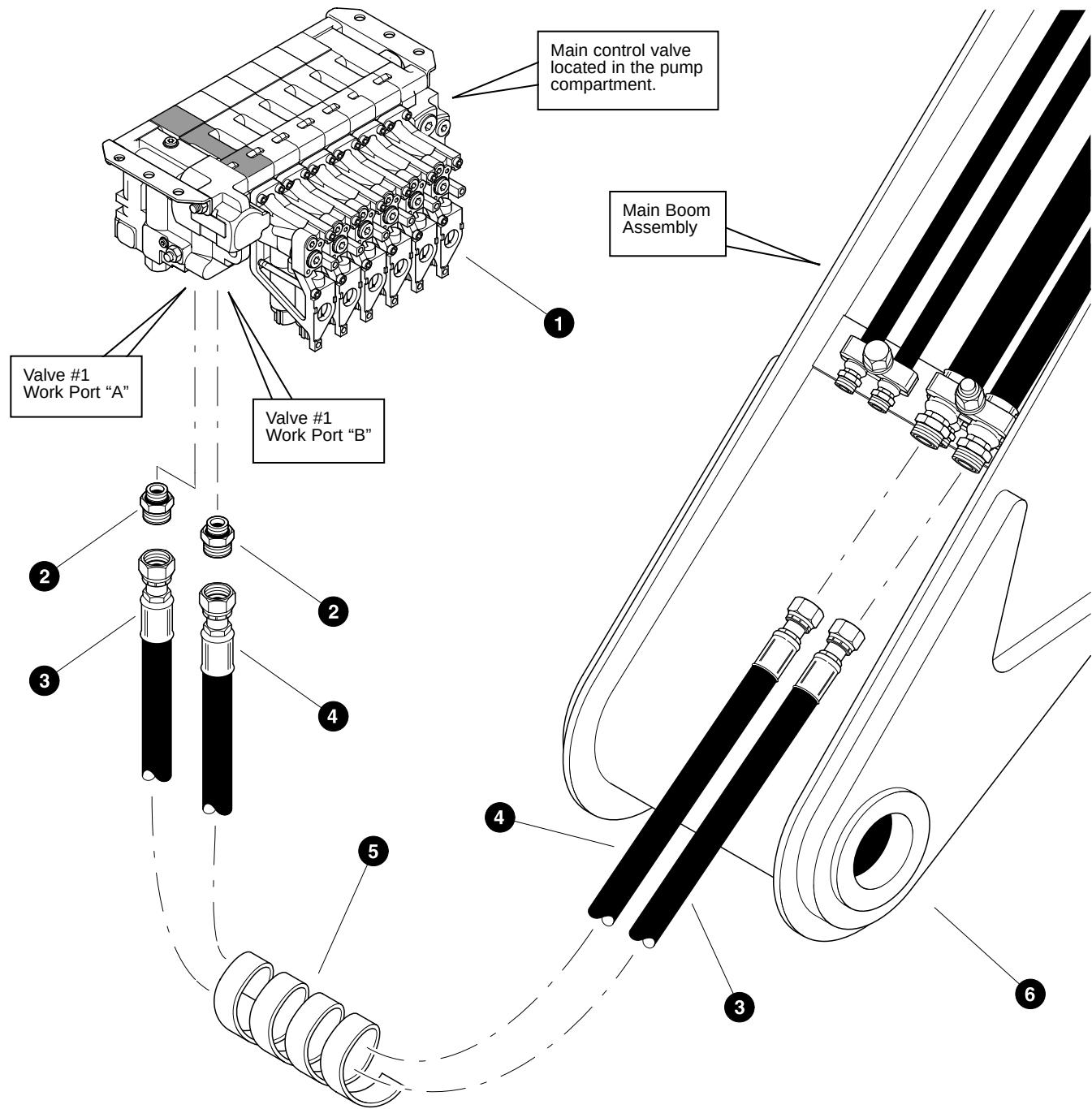


RETURN LINES - OIL COOLER & MAINIFOLD TO TANK (Caterpillar 3116T/3126T Engines)

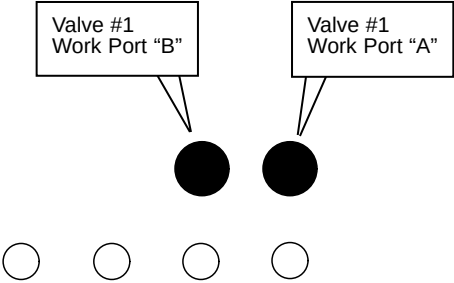
Used on machines PDN# 091FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
2	22448	1		CONNECTOR, straight - 848-TTO-24x24 (<i>Used on machines PDN# 099FWD and above</i>)	
	22447	1		CONNECTOR, straight - 848-TTO-24x20 (<i>Used on machines PDN# 098FWD and below</i>)	
3	20106	1		HOSE ASSEMBLY - 2070-20-200S-2004 (<i>Oil cooler top port to center return filter</i>)	
4	17682	1		ELBOW, 90° swivel - FF2098T-1616S	
5	22438	1		ELBOW, 90° - 849L-TTO-24x24	
6	22438	1		ELBOW, 90° - 2725-FSO-2420	
7	REF.	1	✓	HYDRAULIC TANK ASSEMBLY	E.1.2
8	20105	1		HOSE ASSEMBLY - 2050-16-160S-1609 (<i>Return oil manifold to case drain return filter manifold</i>)	
9	10751	1		PLUG - 5406-P-8	
10	17547	1		MANIFOLD, return line	
11	19183	1		BRACKET, return manifold mount	
12	15528	8		WASHER, SAE flat - 3/8"	
13	10813	4		NUT, lock - 3/8"	
14	10731	4		BOLT - 3/8" x 1-1/2"	
15	17323M	1		COVER, dust - quick-disconnect (<i>Male</i>)	
16	17307M	1		QUICK-DISCONNECT - 1/2" (<i>Male</i>)	
17	17487	1		ELBOW, 90° - 5500-8	
18	15513	1		BUSHING, reducer - 5406-12-8	
19	16034	1		PLUG - FF9767-16S	

✓ See referenced page for component or assembly breakdown.



Main boom hose connections as viewed from rear of machine.



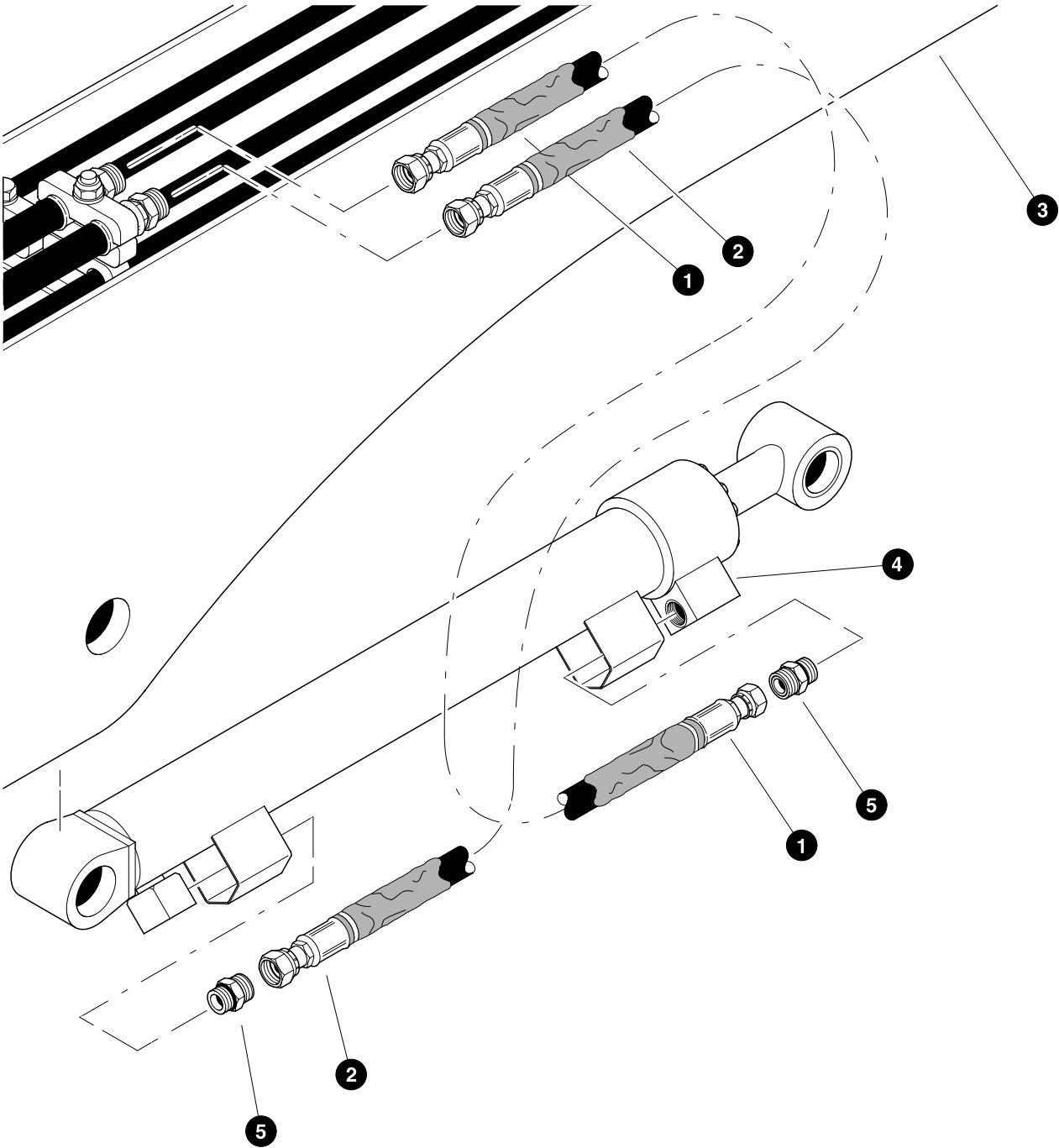
WORK PORT LINES - STICK BOOM FUNCTION

(Main Control Valve To Main Boom Tubelines)

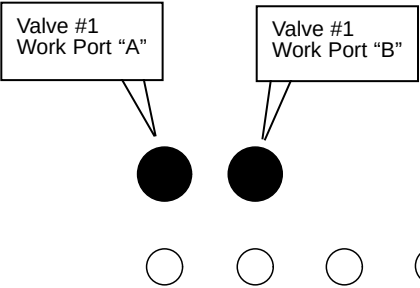
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	16851	2		CONNECTOR, straight - FF1852T-1210S	
3	20108	1		HOSE ASSEMBLY - 4069-12-120S-120S (<i>Stick boom valve section #1 work port "A" to main boom upper engine-side hoseline</i>)	
4	20109	1		HOSE ASSEMBLY - 4067-12-120S-120S (<i>Stick boom valve section #1 work port "B" to main boom upper cab-side hoseline</i>)	
5	20457	AR	⌵	PROTECTOR, spiral hose wrap - 3-1/2"	
6	REF.	1	✓	MAIN BOOM ASSEMBLY	H.1.2

✓ See referenced page for component or assembly breakdown.

⌵ Bulk material - order length required in feet or metres.



Main boom hose
connections as viewed
from the nose of the
main boom looking
towards the rear of the
machine.

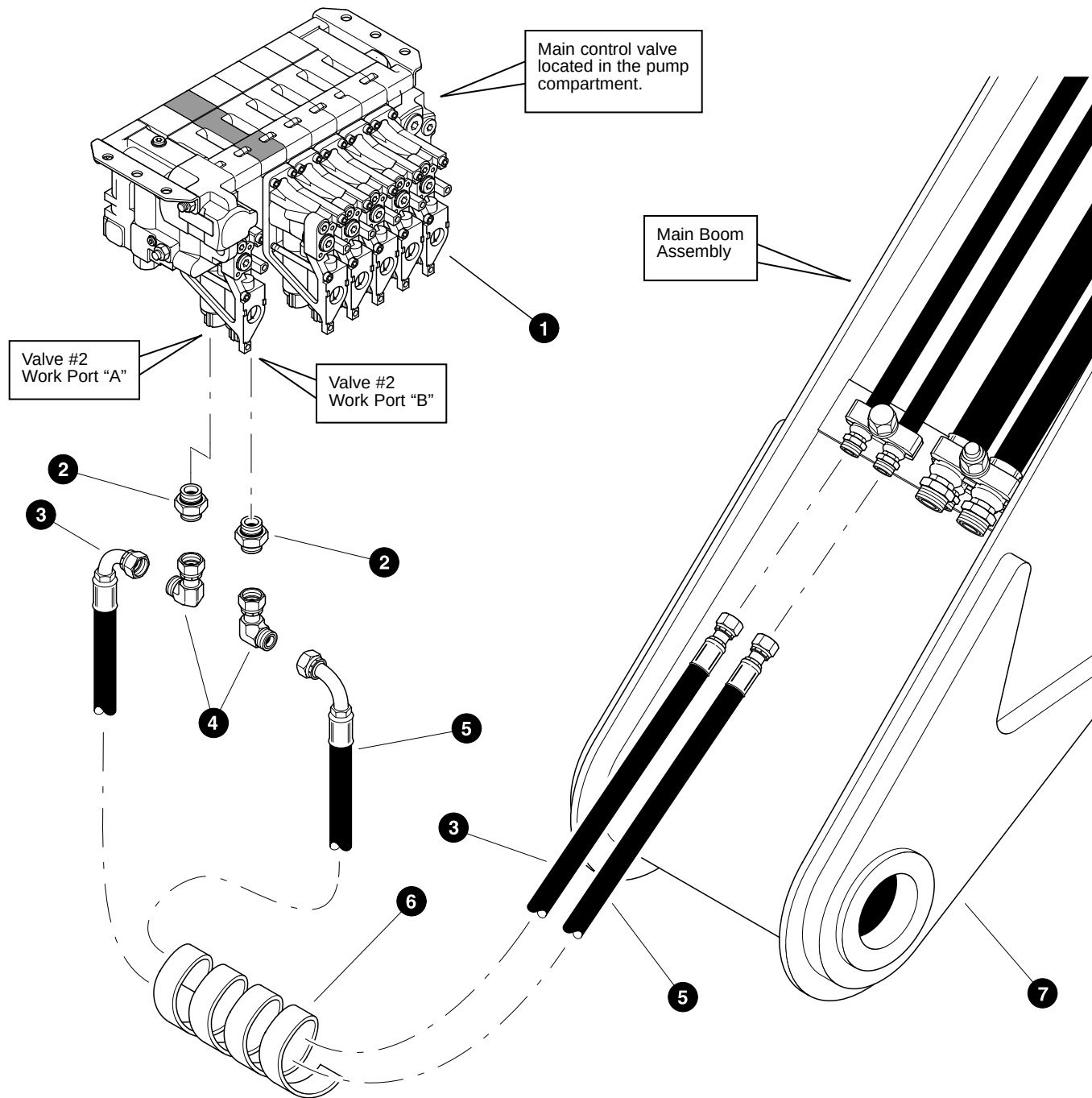


WORK PORT LINES - STICK BOOM FUNCTION

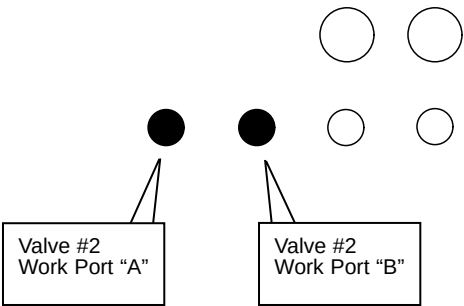
(Main Boom Tubelines To Stick Boom Cylinder)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	21216	1		HOSE ASSEMBLY - 4057-12-120S-120S-W (Main boom upper engine-side hoseline to stick boom cylinder rod port)	
2	23039	1		HOSE ASSEMBLY - 4055-12-120S-120S-W (Main boom upper cab-side hoseline to stick boom cylinder base port)	
3	REF.	1	✓	MAIN BOOM ASSEMBLY	LH-1-2
4	REF.	1	✓	STICK BOOM CYLINDER	LH-2-2
5	15152	2		CONNECTOR, straight - FF1852T-1212S	

✓ See referenced page for component or assembly breakdown.



Main boom hose connections
as viewed from rear of machine.



Parts 00535 04/07/98
25.00

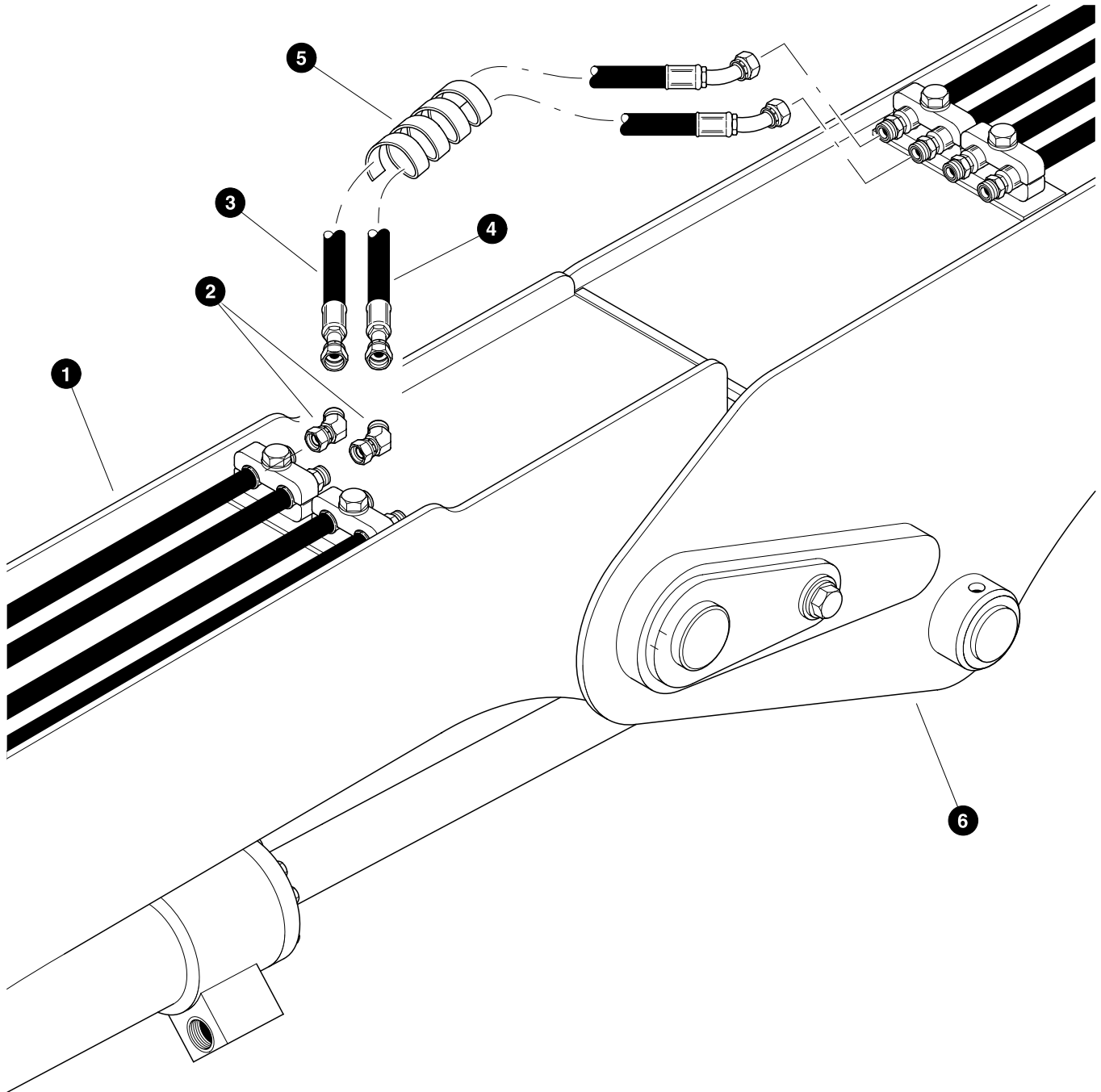
WORK PORT LINES - GRAPPLE OPEN/CLOSE FUNCTION

(Main Control Valve To Main Boom Tubelines)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	15115	2		CONNECTOR, straight - FF1852T-0810S	
3	20111	1		HOSE ASSEMBLY - 4069-08-080S-0809 (<i>Grapple valve section #2 work port "A" to main boom lower outer engine-side hoseline</i>)	
4	16297	2		ELBOW, 90° swivel - FF2098T-0808S	
5	20111	1		HOSE ASSEMBLY - 4069-08-080S-0809 (<i>Grapple valve section #2 work port "B" to main boom lower middle engine-side hoseline</i>)	
6	20457	AR	⌘	PROTECTOR, spiral hose wrap - 3-1/2"	
7	REF.	1	✓	MAIN BOOM ASSEMBLY	H.1.2

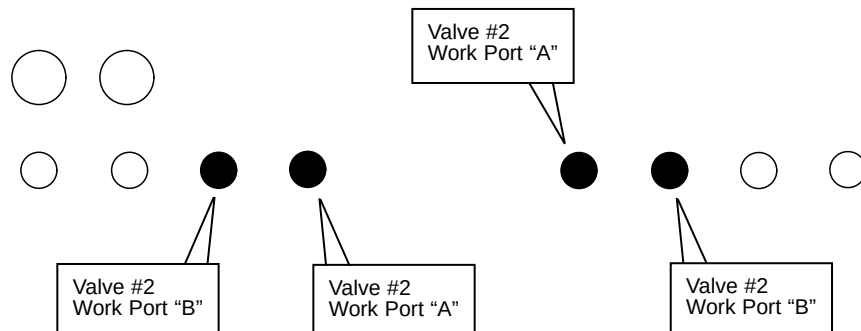
✓ See referenced page for component or assembly breakdown.

⌘ Bulk material - order length required in feet or metres.



Main boom hoseline connections as viewed from the nose of the main boom looking towards the rear of the machine.

Stick boom hoseline connections as viewed looking forward towards the grapple bucket.



Parts 00536 04/07/98
25.00

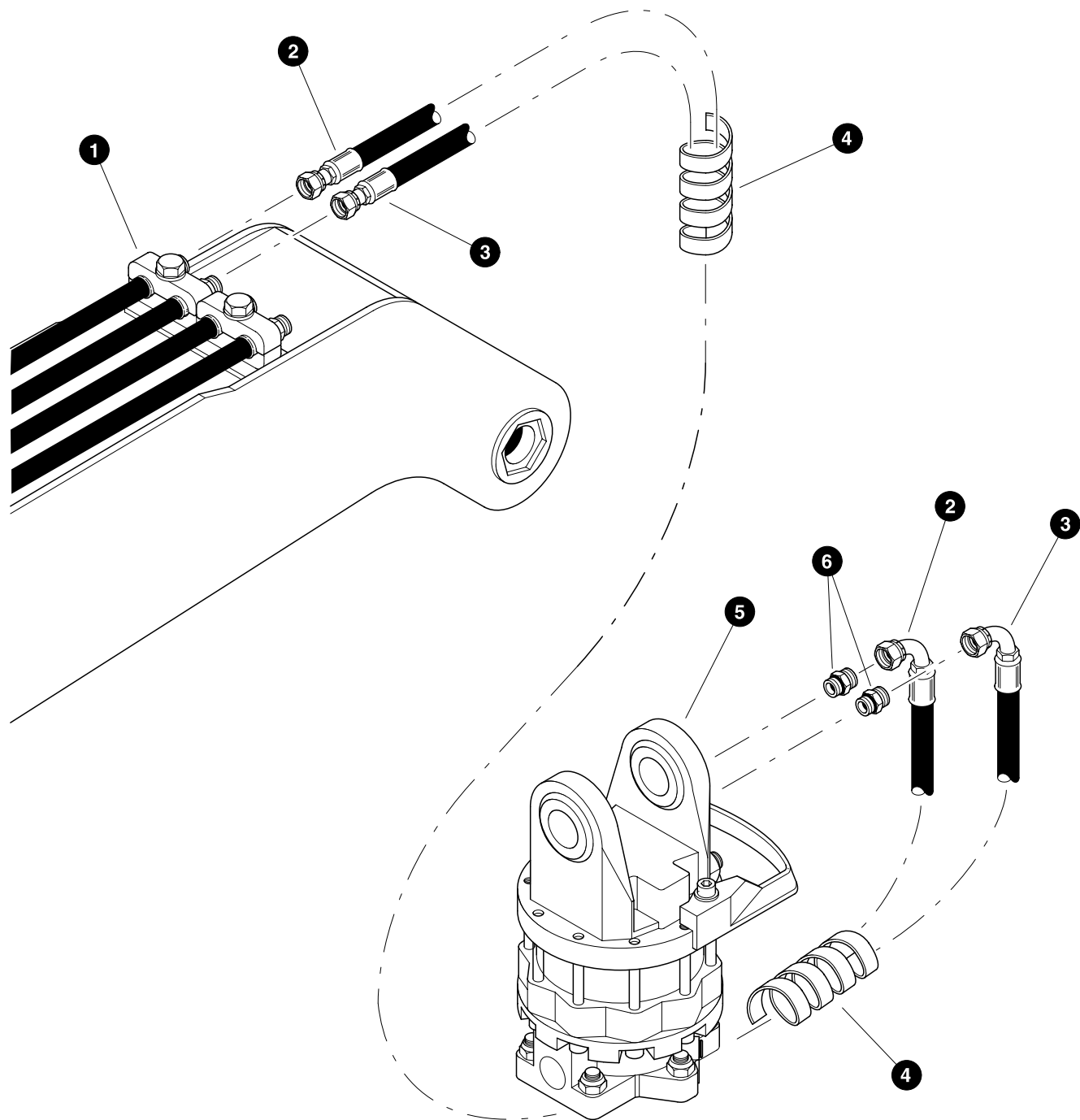
WORK PORT LINES - GRAPPLE OPEN/CLOSE FUNCTION

(Main Boom Tubelines To Stick Boom Tubelines)

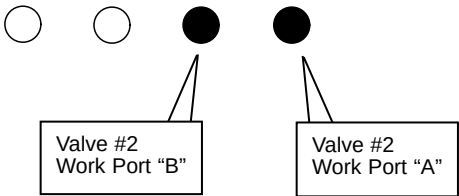
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN BOOM ASSEMBLY	H.2.2
2	20678	2		ELBOW, 45° swivel - FF2133T-0808S	
3	20112	1		HOSE ASSEMBLY - 4045.5-08-080S-0804 (<i>Main boom lower outer engine-side hoseline to stick boom outer engine-side hoseline</i>)	
4	20113	1		HOSE ASSEMBLY - 4047-08-080S-0804 (<i>Main boom lower middle engine-side hoseline to stick boom middle engine-side hoseline</i>)	
5	19677	AR	⌘	PROTECTOR, spiral hose wrap - 1-1/4"	
6	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2

✓ See referenced page for component or assembly breakdown.

⌘ Bulk material - order length required in feet or metres.



Stick boom hose connections as viewed from the nose of the stick boom looking towards the rear of the machine.



Parts 00537 04/07/98
25.00

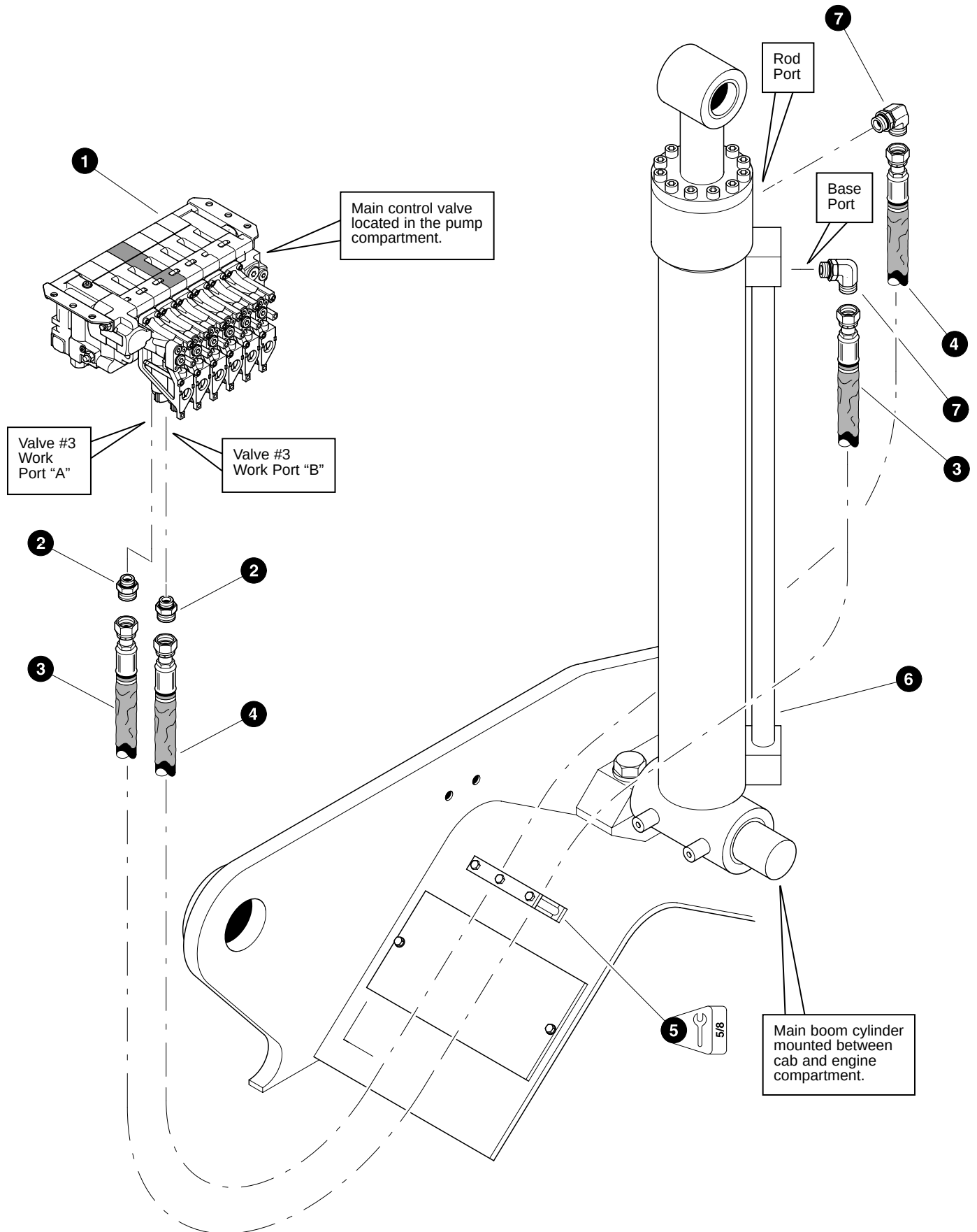
WORK PORT LINES - GRAPPLE OPEN/CLOSE FUNCTION

(Stick Boom Tubelines To Grapple Bucket)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2
2	15268	1		HOSE ASSEMBLY - 4047-08-080S-0809 (<i>Stick boom outer engine-side hose to grapple outer engine-side port</i>)	
3	15268	1		HOSE ASSEMBLY - 4047-08-080S-0809 (<i>Stick boom middle engine-side hose to grapple middle engine-side port</i>)	
4	19677	AR	>⌘	PROTECTOR, spiral hose wrap - 1-1/4"	
5	REF.	1	✓	GRAPPLE BUCKET ROTATOR	Blue F
6	19493	2		CONNECTOR, straight - 8-8-F40ML0-S	

✓ See referenced page for component or assembly breakdown.

>⌘ Bulk material - order length required in feet or metres.

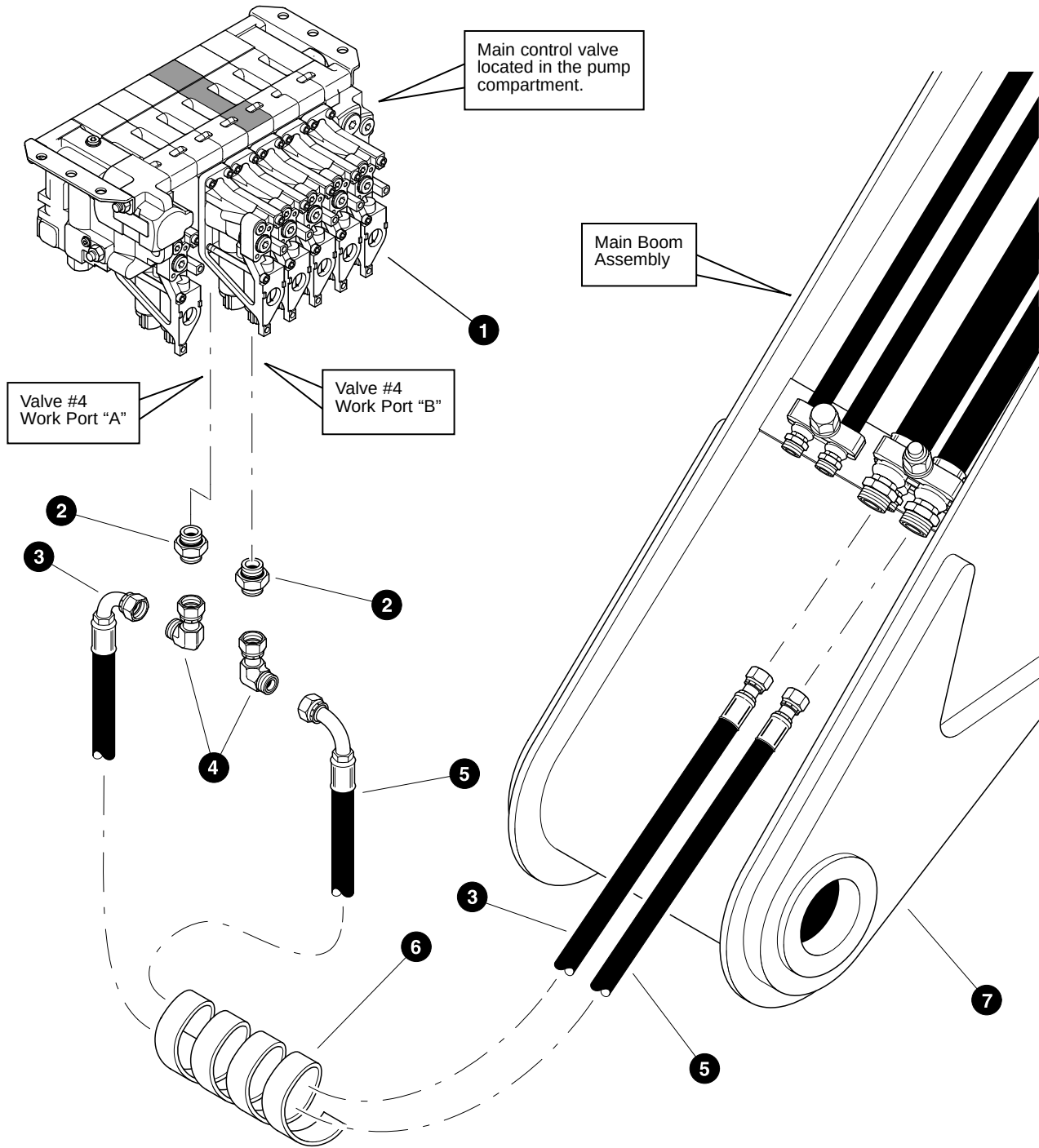


WORK PORT LINES - MAIN BOOM FUNCTION

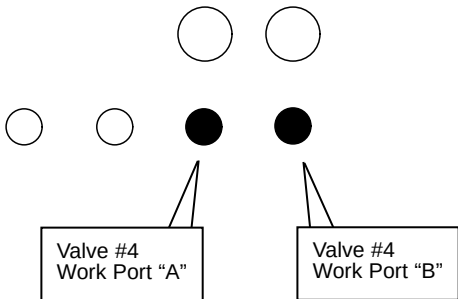
(Main Control Valve To Main Boom (Hoist) Cylinder)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	16851	2		CONNECTOR, straight - FF1852T-1210S	
3	20117	1		HOSE ASSEMBLY - 4128.5-12-120S-120S (<i>Main boom valve section #3 work port "A" to main boom cylinder base port</i>)	
4	20116	1		HOSE ASSEMBLY - 4130.5-12-120S-120S (<i>Main boom valve section #3 work port "B" to main boom cylinder rod port</i>)	
5	12270	1		CLAMP, vermatic - 1-1/2" x 1-1/2"	
6	REF.	1	✓	MAIN BOOM (HOIST) CYLINDER	E.2.1
7	17688	2		ELBOW, 90° - FF1868T-1212S	

✓ See referenced page for component or assembly breakdown.



Main boom hose connections
as viewed from rear of machine.



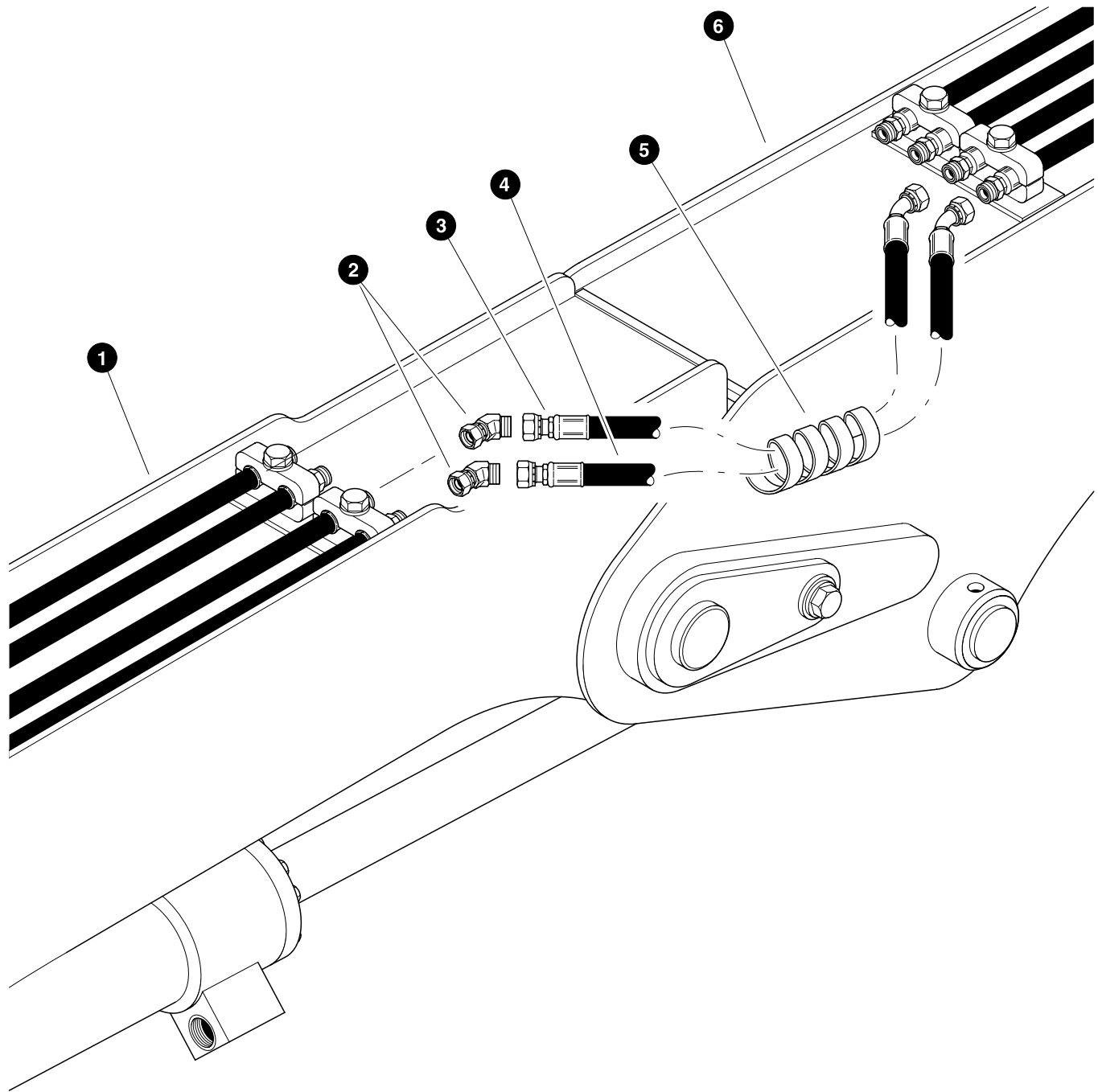
Parts 00538 04/07/98
25.00

WORK PORT LINES - GRAPPLE ROTATE FUNCTION

(Main Control Valve To Main Boom Tubelines)

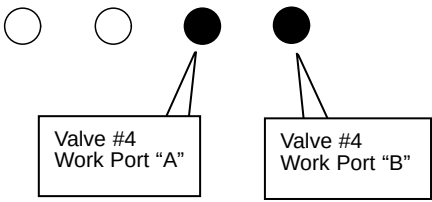
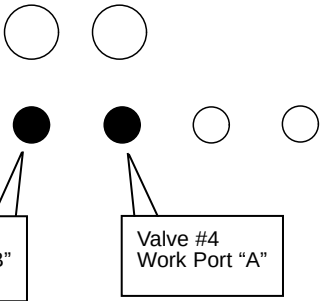
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	15115	2		CONNECTOR, straight - FF1852T-0810S	
3	20118	1		HOSE ASSEMBLY - 4067-08-080S-0809 (<i>Grapple rotate valve section #4 work port "A" to main boom lower outer cab-side hoseline</i>)	
4	16297	2		ELBOW, 90° swivel - FF2098T-0808S	
5	20118	1		HOSE ASSEMBLY - 4067-08-080S-0809 (<i>Grapple rotate valve section #4 work port "B" to main boom lower middle cab-side hoseline</i>)	
6	20457	AR	⌘	PROTECTOR, spiral hose wrap - 3-1/2"	
7	REF.	1	✓	MAIN BOOM ASSEMBLY	H.1.2

- ✓ See referenced page for component or assembly breakdown.
 ⌘ Bulk material - order length required in feet or metres.



Main boom hose connections as viewed from the nose of the main boom looking towards the rear of the machine.

Stick boom hose connections as viewed looking forward towards the grapple bucket.



Parts 00539 04/07/98
25.00

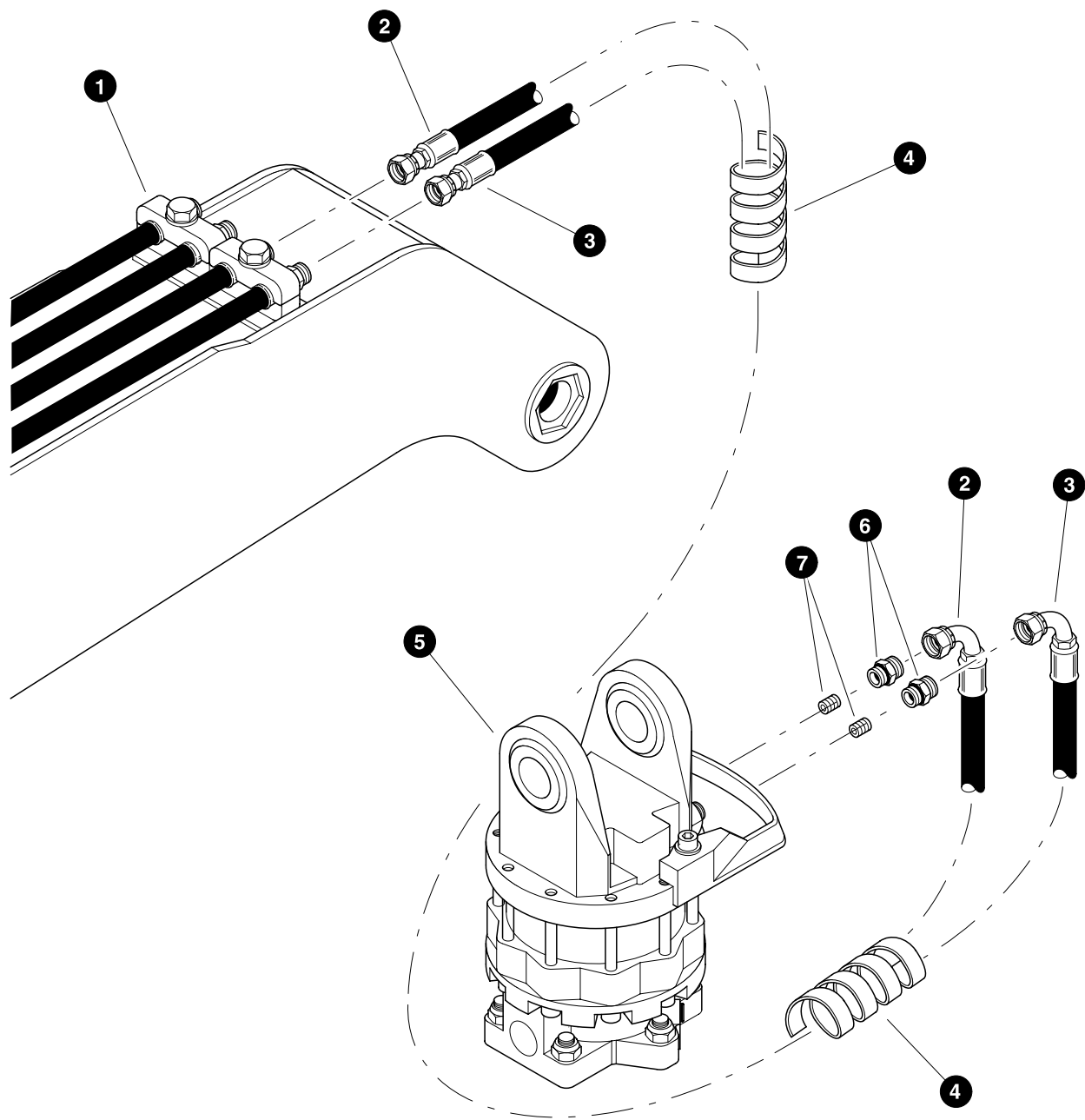
WORK PORT LINES - GRAPPLE ROTATE FUNCTION

(Main Boom Tubelines To Stick Boom Tubelines)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN BOOM ASSEMBLY	H.2.2
2	20678	2		ELBOW, 45° swivel - FF2133T-0808S	
3	20113	1		HOSE ASSEMBLY - 4047-08-080S-0804 (<i>Main boom lower middle cab-side hoseline to stick boom middle cab-side hoseline</i>)	
4	20112	1		HOSE ASSEMBLY - 4045.5-08-080S-0804 (<i>Main boom lower outer cab-side hoseline to stick boom outer cab-side hoseline</i>)	
5	19677	AR	⌵	PROTECTOR, spiral hose wrap - 1-1/4"	
6	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2

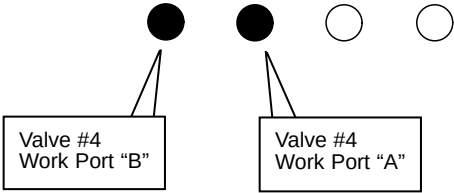
✓ See referenced page for component or assembly breakdown.

⌵ Bulk material - order length required in feet or metres.



Stick boom hose connections
as viewed from the nose of the
stick boom looking towards the
rear of the machine.

Parts 00540 04/07/98
25.00

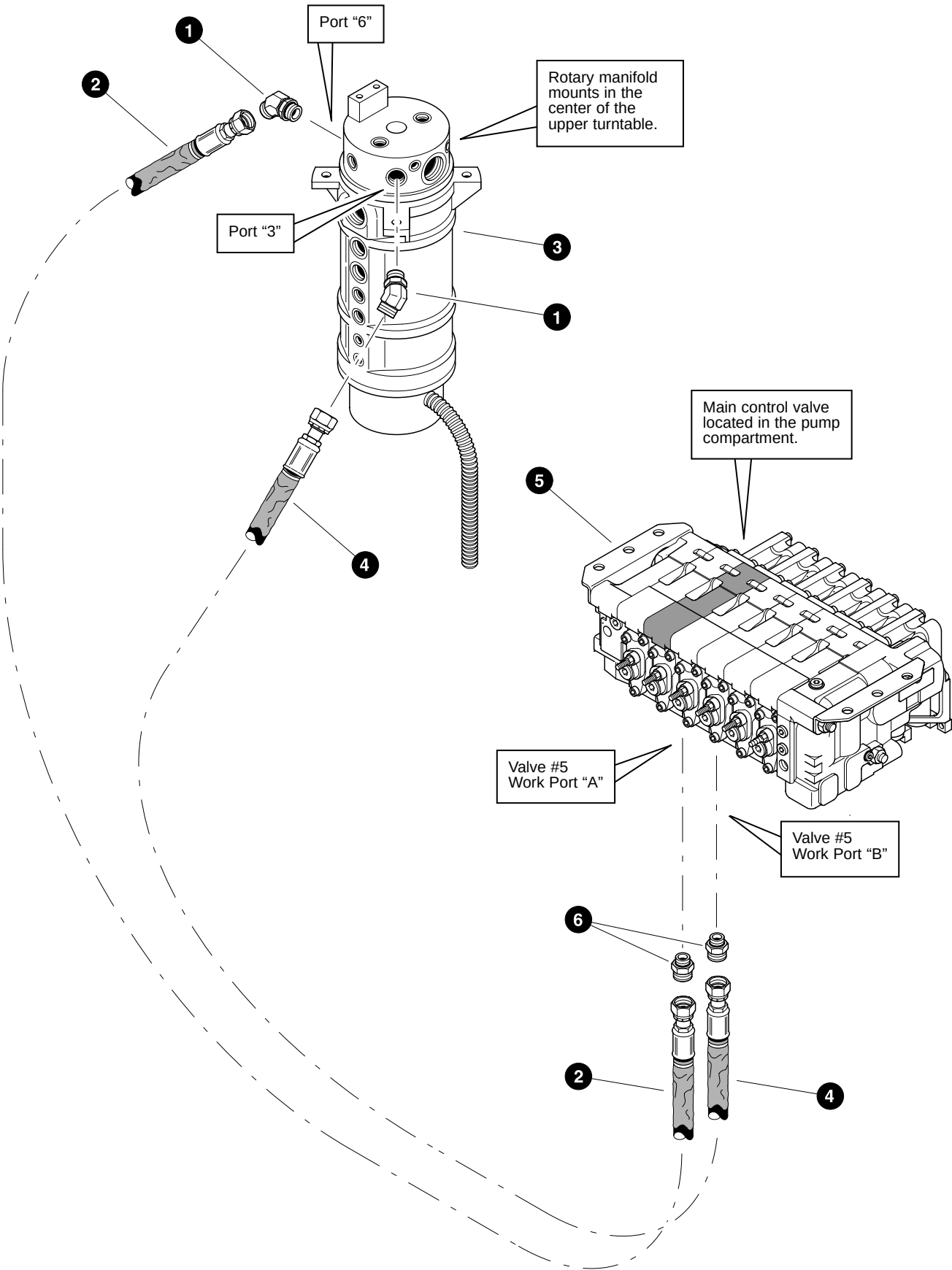


WORK PORT LINES - GRAPPLE ROTATE FUNCTION

(Stick Boom Tubelines To Grapple Bucket)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2
2	15268	1		HOSE ASSEMBLY - 4047-08-080S-0809 (<i>Stick boom outer engine-side hoseline to grapple outer engine-side port</i>)	
3	15268	1		HOSE ASSEMBLY - 4047-08-080S-0809 (<i>Stick boom middle engine-side hoseline to grapple middle engine-side port</i>)	
4	19677	AR	>✂	PROTECTOR, spiral hose wrap - 1-1/4"	
5	REF.	1	✓	GRAPPLE BUCKET ROTATOR	Blue F
6	19492	2	□	CONNECTOR, straight w/orifice - 8-8-F40ML0-S	
7	20119	2		ORIFICE	

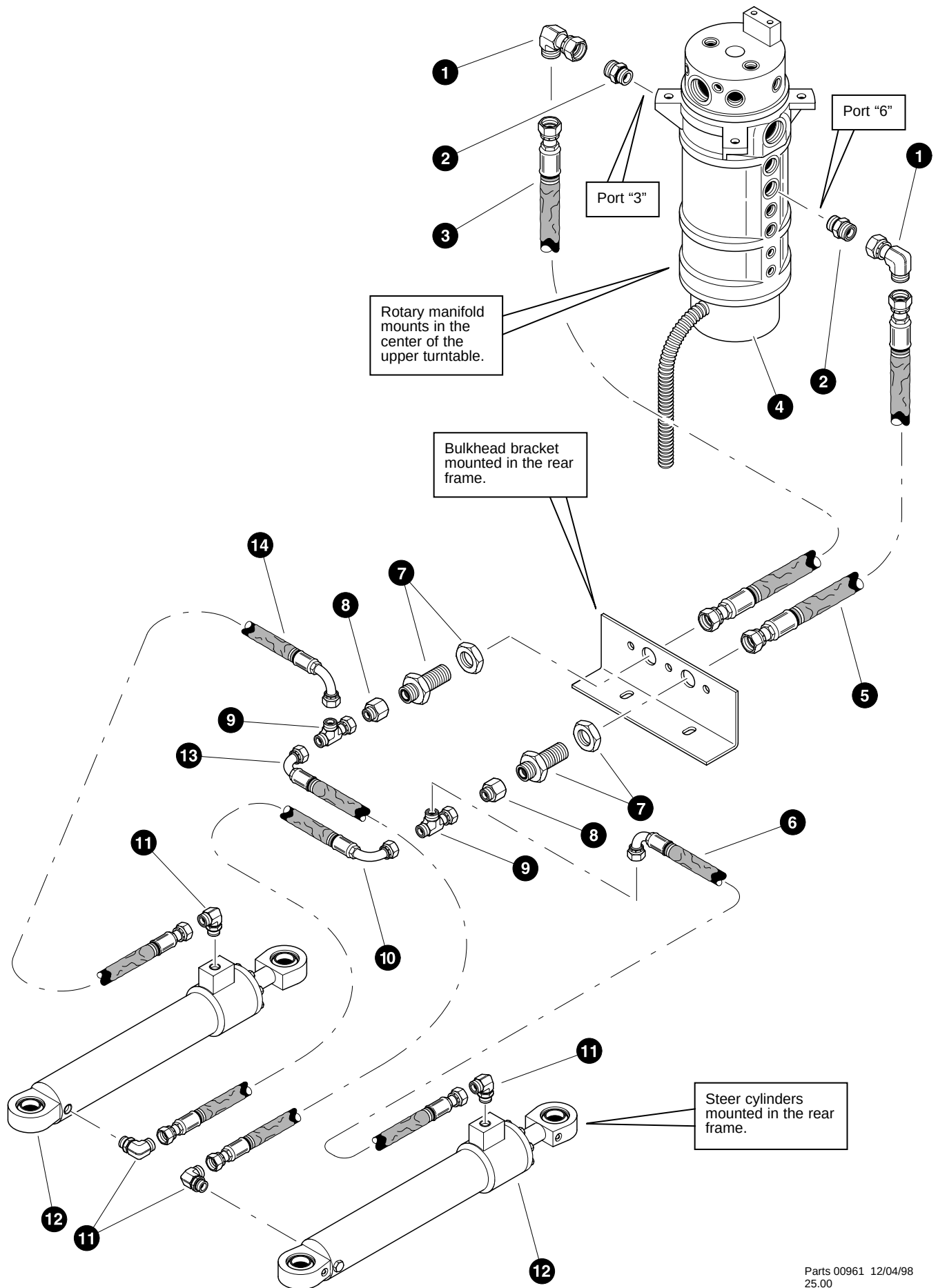
- ✓ See referenced page for component or assembly breakdown.
- >✂ Bulk material - order length required in feet or metres.
- Kit or Assembly - includes all items indented underneath.



WORK PORT LINES - STEER FUNCTION
(Main Control Valve To Upper Rotary Manifold Ports)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	19127	2	ELBOW, 45° - FF2068T-1212S	
2	17347	1	HOSE ASSEMBLY - 4060-12-120S-120S-W (<i>Steer valve section #5 work port "A" to upper rotary manifold port #6</i>)(Used on machines PDN# 062FWD and above)	
	20120	1	HOSE ASSEMBLY - 4061-12-120S-120S (<i>Steer valve section #5 work port "A" to upper rotary manifold port #6</i>)(Used on machines PDN# 061FWD and below)	
3	REF.	1	✓ ROTARY MANIFOLD ASSEMBLY	D.2.2
4	20929	1	HOSE ASSEMBLY - 4050-12-120S-120S-W (<i>Steer valve section #5 work port "B" to upper rotary manifold port #3</i>)(Used on machines PDN# 062FWD and above)	
	20121	1	HOSE ASSEMBLY - 4051-12-120S-120S (<i>Steer valve section #5 work port "B" to upper rotary manifold port #3</i>)(Used on machines PDN# 061FWD and below)	
5	REF.	1	✓ MAIN CONTROL VALVE	Blue A
6	16851	2	CONNECTOR, straight - FF1852T-1210S	

✓ See referenced page for component or assembly breakdown.



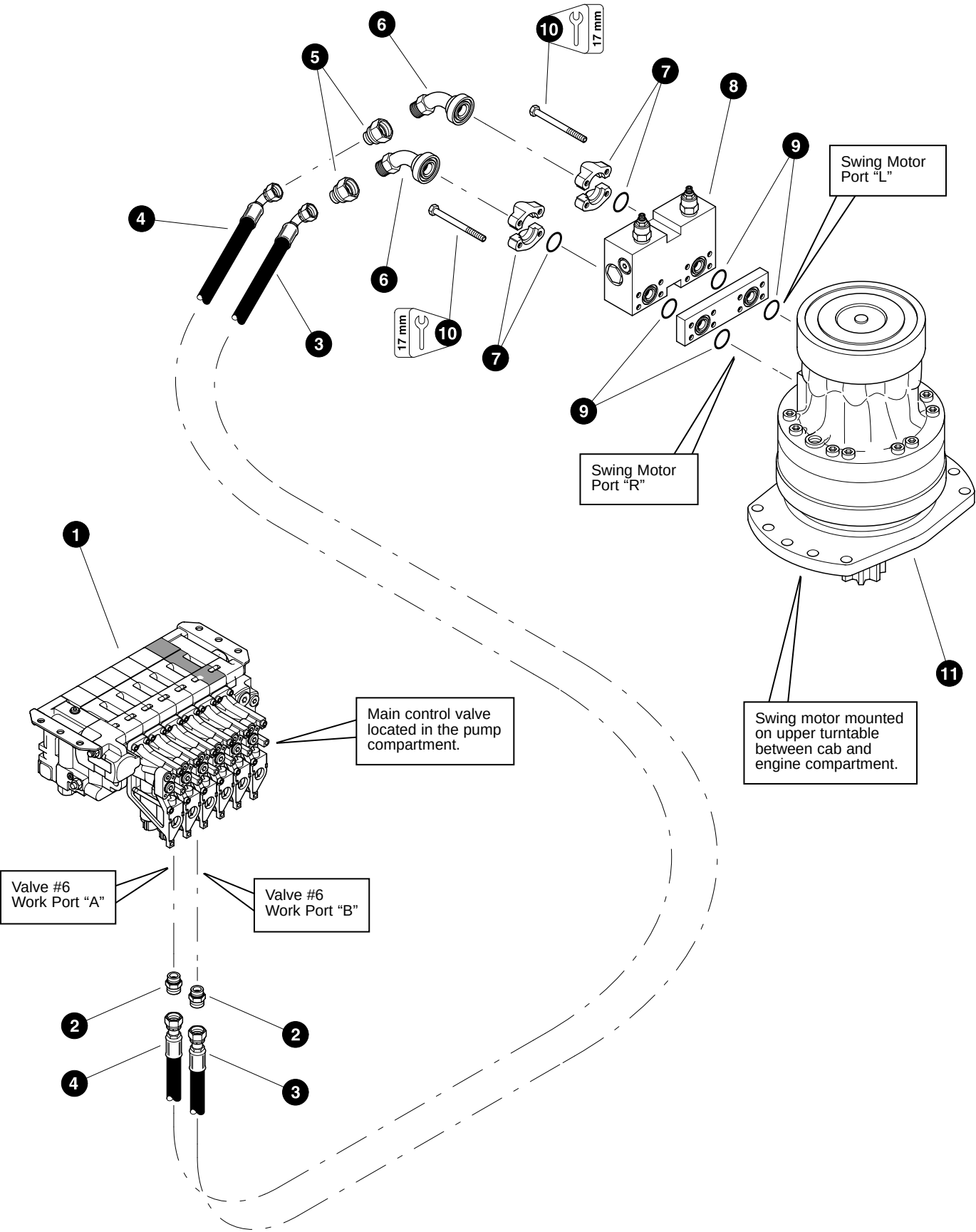
Parts 00961 12/04/98
25.00

WORK PORT LINES - STEER FUNCTION

(Lower Rotary Manifold Ports To Steer Cylinders)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	17670	2	ELBOW, 90° - FF2098T-1212S	
2	15152	2	CONNECTOR, straight - FF1852T-1212S	
3	20477	1	HOSE ASSEMBLY - 4112-12-120S-120S-W (<i>Lower rotary manifold port #3 to left bulkhead fitting</i>)(Used on machines PDN# 062FWD and above)	
	20122	1	HOSE ASSEMBLY - 4105-12-120S-120S (<i>Lower rotary manifold port #3 to left bulkhead fitting</i>)(Used on machines PDN# 061FWD and below)	
4	REF.	1	✓ ROTARY MANIFOLD ASSEMBLY	D.2.2
5	20476	1	HOSE ASSEMBLY - 4110-12-120S-120S-W (<i>Lower rotary manifold port #6 to right bulkhead fitting</i>)(Used on machines PDN# 062FWD and above)	
	20123	1	HOSE ASSEMBLY - 4107-12-120S-120S (<i>Lower rotary manifold port #6 to right bulkhead fitting</i>)(Used on machines PDN# 061FWD and below)	
6	20124	1	HOSE ASSEMBLY - 4028-08-080S-0809-W (<i>Right bulkhead tee to right steer cylinder rod port</i>)	
7	19754	2	CONNECTOR, straight bulkhead - 12WL0-WLNL-S	
8	18581	2	CONNECTOR, reducer - FF2281T-0812S	
9	15433	2	TEE - FF2114T-0808S	
10	20125	1	HOSE ASSEMBLY - 4043-08-080S-0809-W (<i>Right bulkhead tee to left steer cylinder base port</i>)	
11	16360	4	ELBOW, 90° - FF1868T-0808S	
12	REF.	2	✓ STEER CYLINDER	E.2.6
13	20125	1	HOSE ASSEMBLY - 4043-08-080S-0809-W (<i>Left bulkhead tee to right steer cylinder base port</i>)	
14	20124	1	HOSE ASSEMBLY - 4028-08-080S-0809-W (<i>Left bulkhead tee to left steer cylinder rod port</i>)	

✓ See referenced page for component or assembly breakdown.

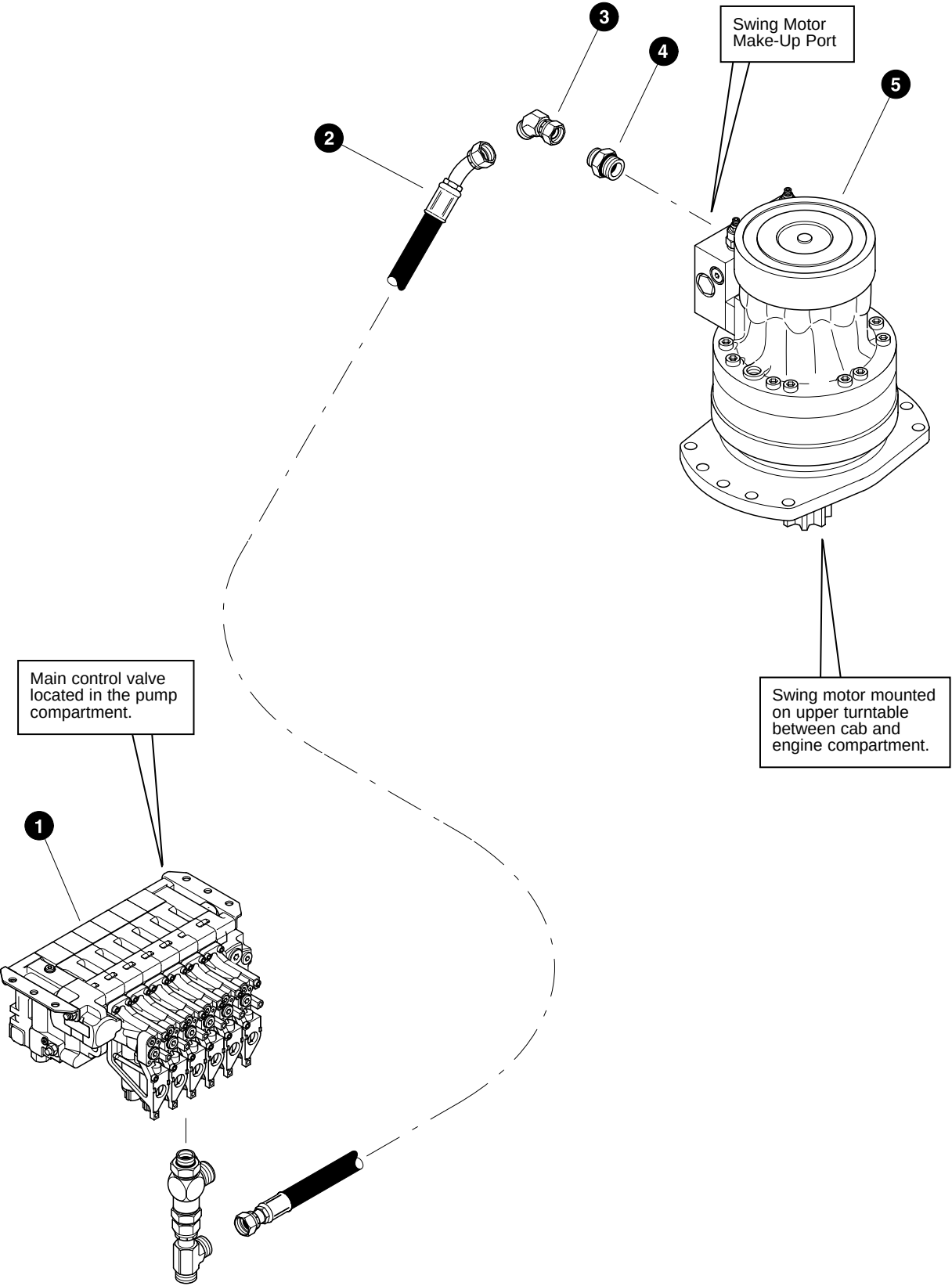


WORK PORT LINES - SWING FUNCTION

(Main Control Valve To Swing Motor)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	15115	4		CONNECTOR, straight - FF1852T-0810S	
3	20129	1		HOSE ASSEMBLY - 4051-08-080S-0804 (<i>Swing valve section #6 work port "B" to swing motor port "R"</i>)	
4	20130	1		HOSE ASSEMBLY - 4056.5-08-080S-0804 (<i>Swing valve section #6 work port "A" to swing motor port "L"</i>)	
5	18581	2		CONNECTOR, reducer - FF2281T-0812S	
6	17457	2		ADAPTER, 45° flange - 3/4" (Code 62)	
7	16660	2	☐	KIT, split flange - 3/4" (Code 62)	
	16918	1		O-RING - 3/4" SF	
8	REF.	1	☐	ANTI-CAVITATION VALVE	D.2.4
9	16918	4		O-RING - 3/4" SF	
10	19196	8		BOLT - 10mm x 120mm	
11	REF.	1	✓	SWING MOTOR	C.2.4

- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.

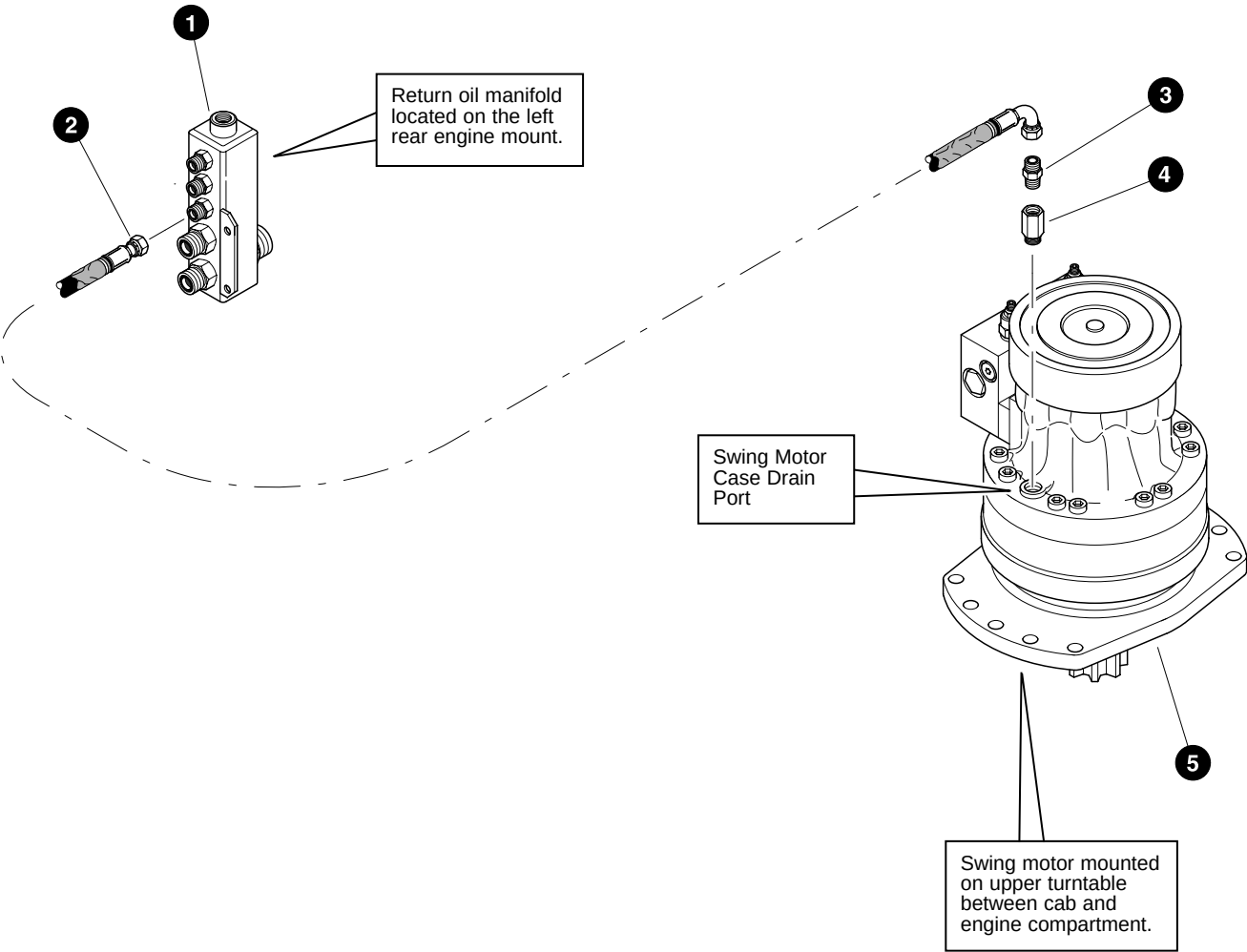


WORK PORT LINES - SWING FUNCTION MAKE-UP LINE

(Main Control Valve To Swing Motor Anti-Cavitation Valve)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	19592	1		ELBOW, 45° swivel - FF2133T-1212S	
3	20126	1		HOSE ASSEMBLY - 2046-12-120S-1204 (<i>Main control valve swing motor make-up oil port tee to swing motor anti-cavitation valve</i>)	
4	15152	1		CONNECTOR, straight - FF1852T-1212S	
5	REF.	1	✓	SWING MOTOR	C.2.4

✓ See referenced page for component or assembly breakdown.

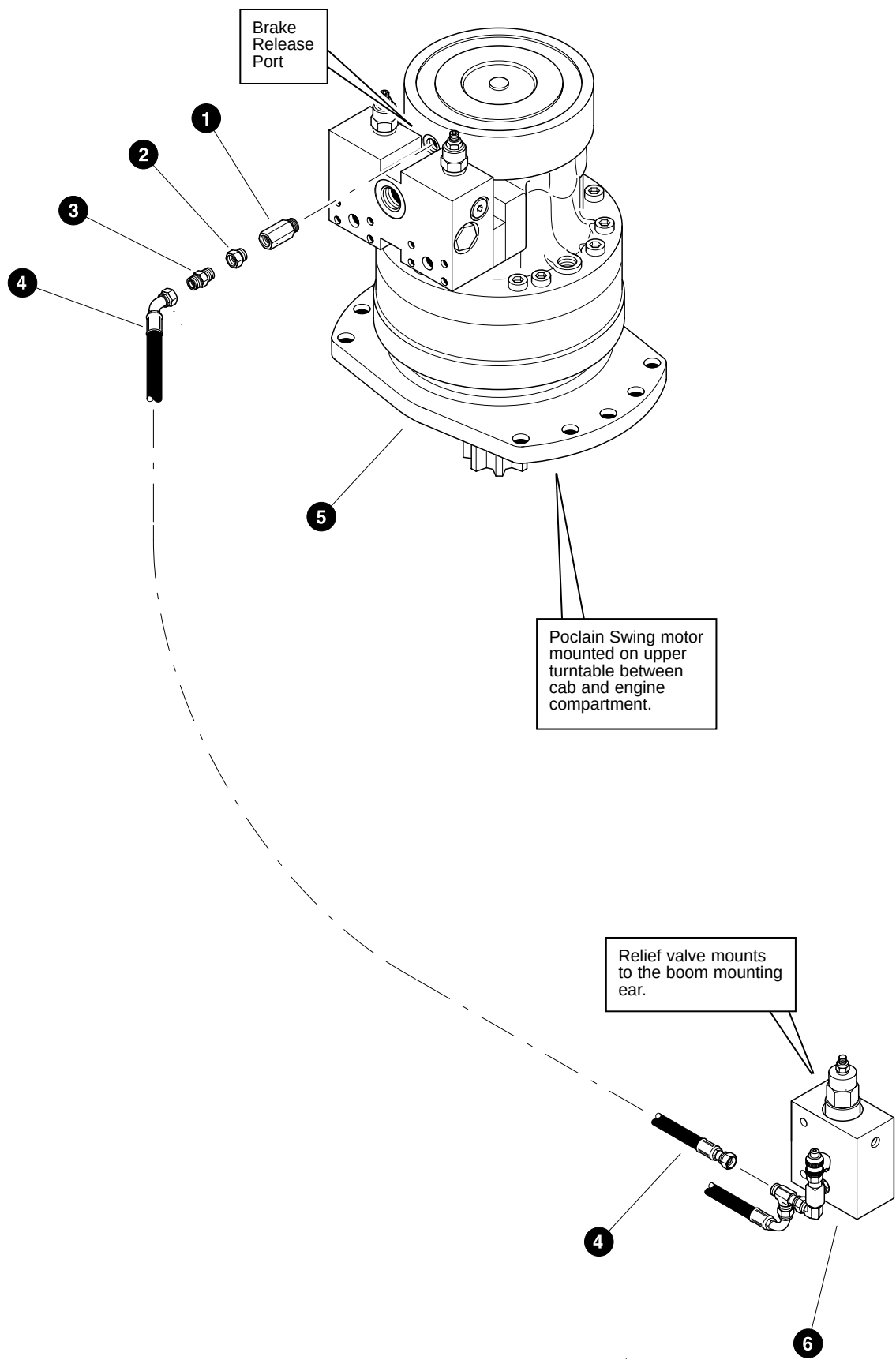


WORK PORT LINES - SWING MOTOR CASE DRAIN LINE

(Swing Motor To Return Oil Manifold)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	18584	1		MANIFOLD, return oil	
2	20127	1		HOSE ASSEMBLY - 4087-08-080S-0809 (<i>Swing motor case drain port to return oil manifold</i>)	
3	15258	1		CONNECTOR, straight - FF2031T-0808S	
4	17584	1		BUSHING, reducer - 7455-8-22mm	
5	REF.	1	✓	SWING MOTOR	C.2.4

✓ See referenced page for component or assembly breakdown.

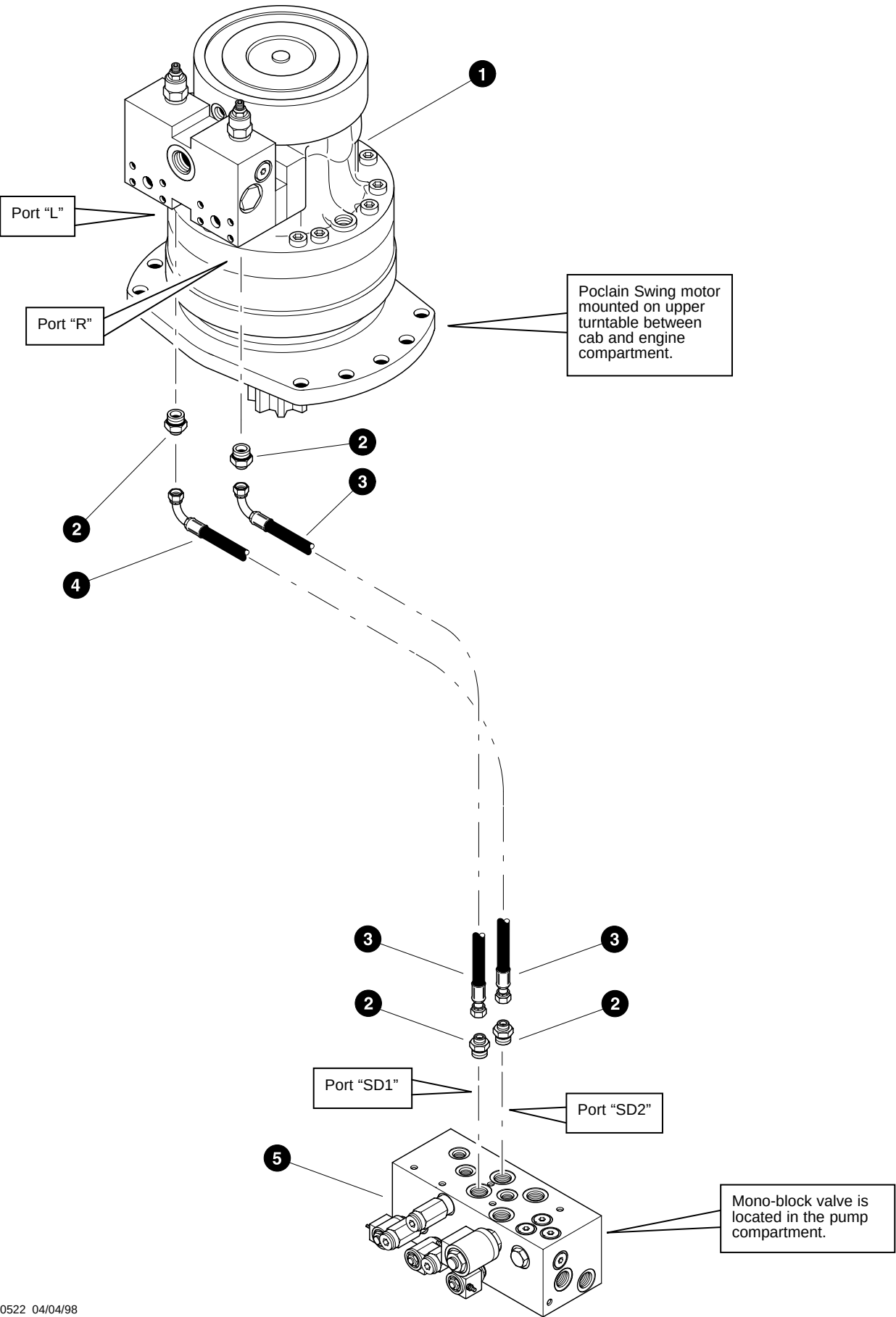


SWING MOTOR BRAKE RELEASE LINE

(From Relief Valve To Swing Motor Brake Release)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	17585	1		BUSHING, reducer - 7455-6-16mm	
2	11318	1		BUSHING, reducer - 5406-6-4	
3	15131	1		CONNECTOR, straight - FF2031T-0404S	
4	15276	1		HOSE ASSEMBLY - 2066-04-040S-0404 (<i>Relief valve tee to swing motor brake release port</i>)	
5	REF.	1	✓	SWING MOTOR	C.2.4
6	REF.	1	✓	RELIEF VALVE	D.1.2

✓ See referenced page for component or assembly breakdown.



Parts 00522 04/04/98
25.00

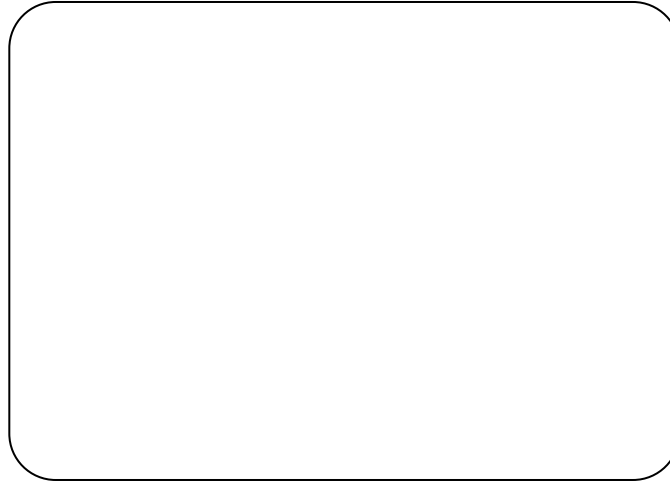
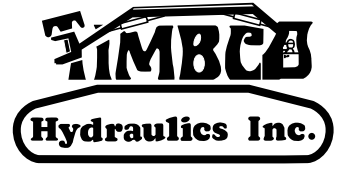
SWING DETENT LINES

(From Mono-Block Valve To Swing Motor Counterbalance Valve)

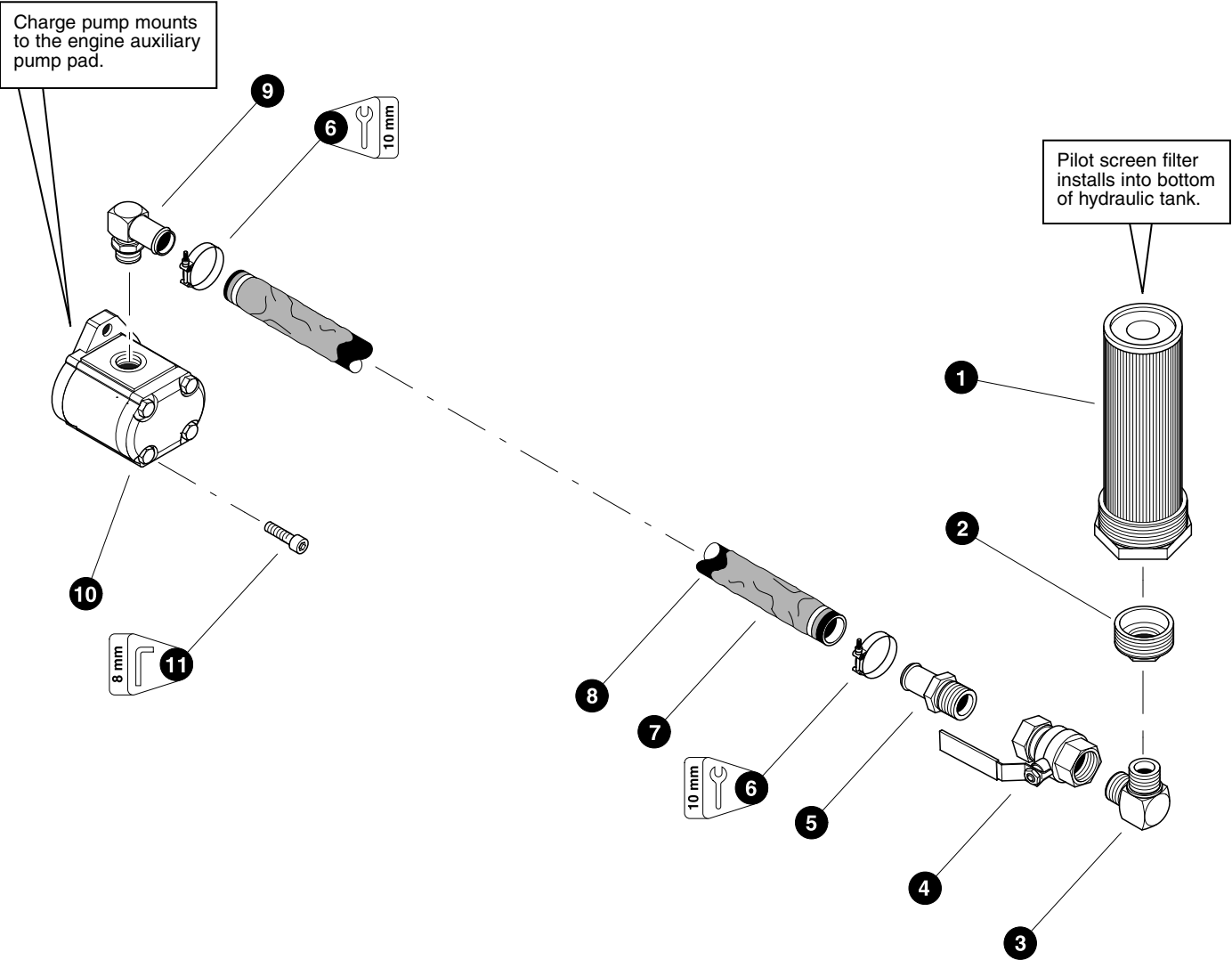
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	SWING MOTOR	C.2.4
2	15504	4		CONNECTOR, straight - FF1852T-0408S	
3	20128	1		HOSE ASSEMBLY - 2076-04-040S-0409 (<i>Mono-block port "SD1"</i> <i>to swing motor detent port "R"</i>)	
4	20001	1		HOSE ASSEMBLY - 2082-04-040S-0409 (<i>Mono-block port "SD2"</i> <i>to swing motor detent port "L"</i>)	
5	REF.	1	✓	MONO-BLOCK VALVE	D.1.6

✓ See referenced page for component or assembly breakdown.

Section B.3



Hydraulic Circuits - Wheel Drive

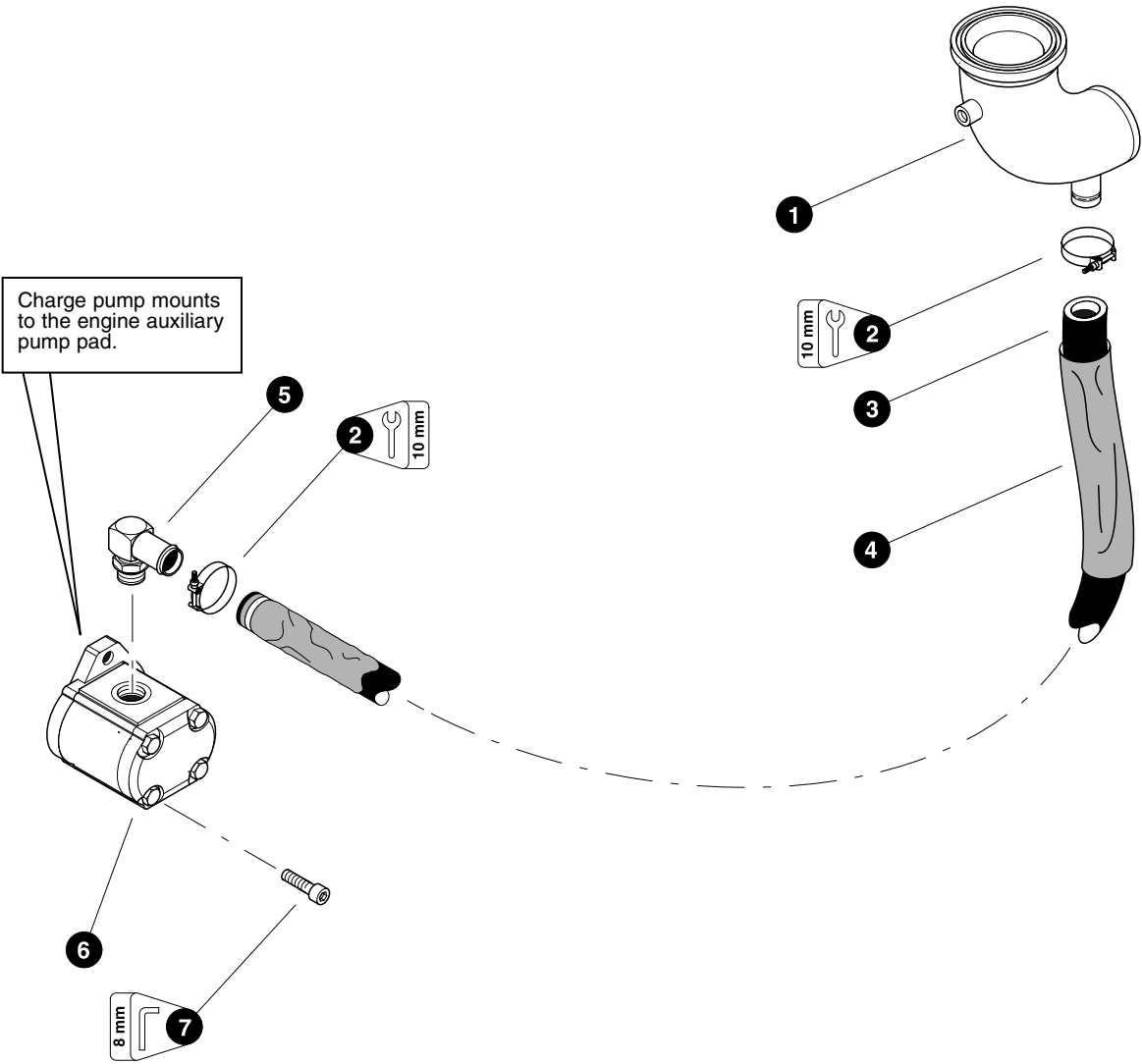


WHEEL DRIVE CHARGE PUMP SUCTION LINE

(Used on machines PDN# 095FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15326	1		FILTER, screen - 100 mesh suction	
2	16760	1		BUSHING, black reducer - 2" x 1"	
3	17610	1		ELBOW, 45° - 5501-16	
4	16706	1		VALVE, ball shut-off - 1"	
5	16375	1		NIPPLE, king - 4404-16-16	
6	15191	2		CLAMP, constant torque - 1-1/2"	
7	17572	AR	✂	SLEEVE, protective hose	
8	16109	AR	✂	HOSE, suction - 1"	
9	19476	1		NIPPLE, 90° king - 4601-16	
10	18448	1		PUMP, charge <i>(Used with Cummins engines)</i>	
	18945	1		PUMP, charge <i>(Used with Caterpillar engines)</i>	
11	16116	2		BOLT, allen head - 10mm x 30mm	

✂ Bulk material - order length required in feet or metres.

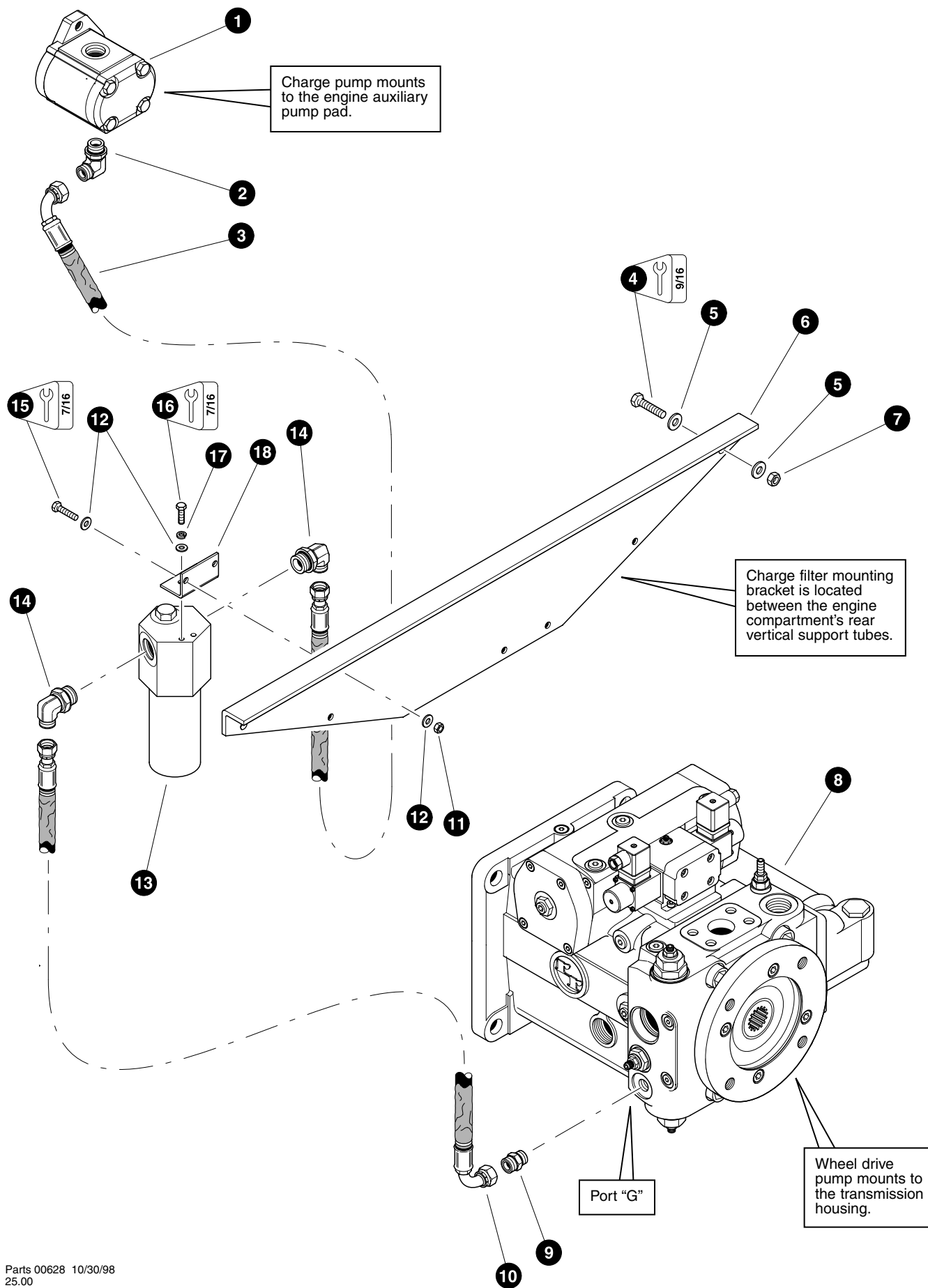


WHEEL DRIVE CHARGE PUMP SUCTION LINE

(Used on machines PDN# 096FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF	1	✓	TANK SUCTION TUBE	B.2.2
2	15191	2		CLAMP, constant torque - 1-1/2"	
3	16109	AR	✂	HOSE, suction - 1"	
4	17572	AR	✂	SLEEVE, protective hose	
5	19476	1		NIPPLE, 90° king - 4601-16	
6	18448	1		PUMP, charge <i>(Used with Cummins engines)</i>	
	18945	1		PUMP, charge <i>(Used with Caterpillar engines)</i>	
7	16116	2		BOLT, allen head - 10mm x 30mm	

✂ Bulk material - order length required in feet or metres.

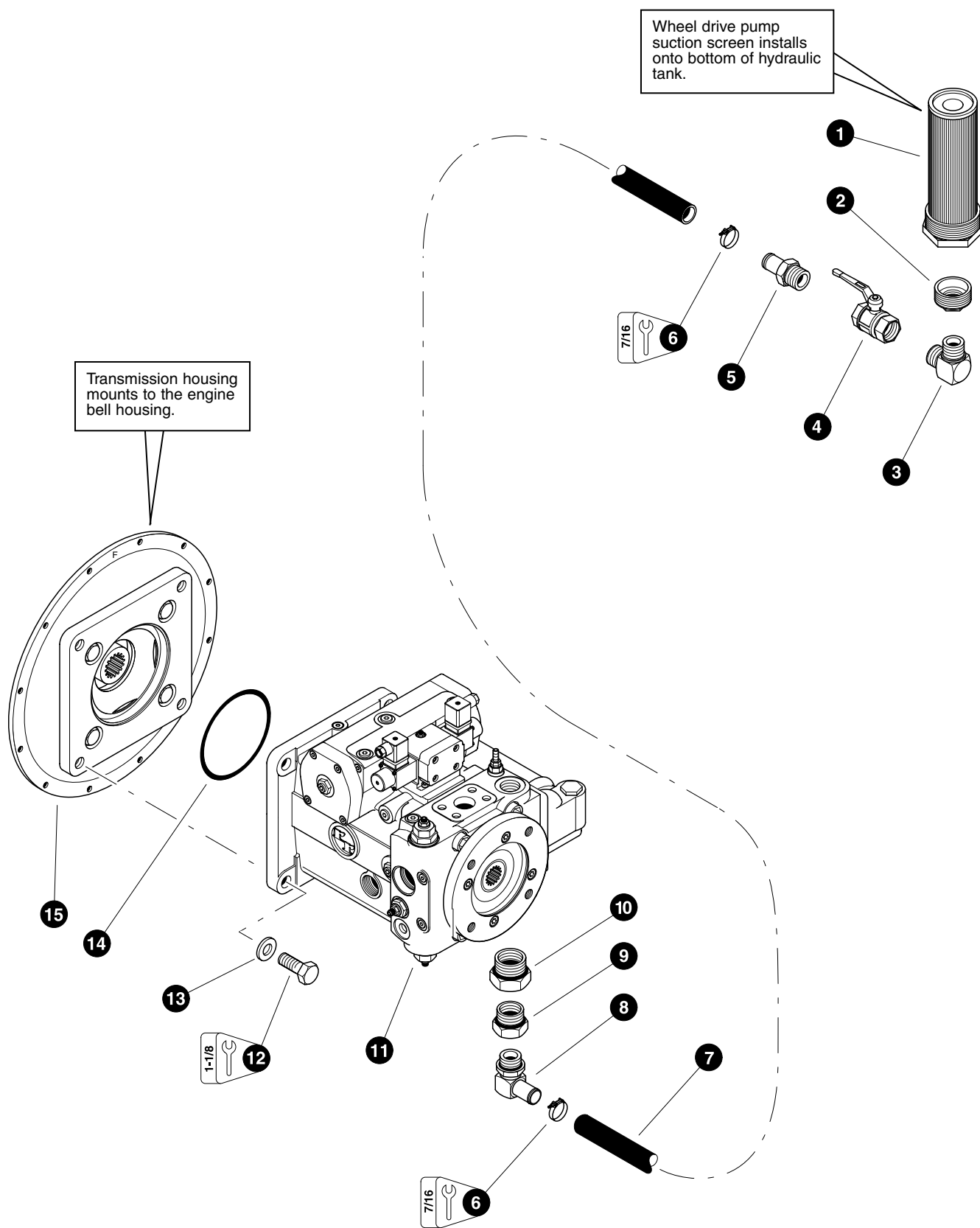


WHEEL DRIVE CHARGE PRESSURE LINES

(From Charge Pump To Wheel Drive Pump)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	CHARGE PUMP	B.3.2
2	15154	1		ELBOW, 90 - FF1868T-0810S	
3	20936	1		HOSE ASSEMBLY - 4043.5-08-080S-0804-W (<i>Charge pump pressure outlet to charge filter inlet</i>)	
4	10731	2		BOLT - 3/8" X 1-1/2"	
5	15528	4		WASHER, SAE flat - 3/8"	
6	18455	1		BRACKET, charge filter & electric fill pump mounting	
7	10813	2		NUT, lock - 3/8"	
8	REF.	1		WHEEL DRIVE PUMP	C.3.2
9	15115	1		CONNECTOR, straight - FF1852T-0810S	
10	16411	1		HOSE ASSEMBLY - 4032-08-080S-0809-W (<i>Charge filter outlet to wheel drive pump port "G"</i>)	
11	10811	8		NUT, lock - 1/4"	
12	10811	8		NUT, lock - 1/4"	
13	15374	1	□	FILTER, charge	
	15375	1		ELEMENT, filter - charge	
14	15372	2		ELBOW, 90° - FF1868T-0812S	
15	15576	2		BOLT - 1/4" X 1"	
16	15604	2		BOLT - 1/4" X 3/4"	
17	10756	2		WASHER, lock - 1/4"	
18	18456	1		BRACKET, charge filter mounting angle	

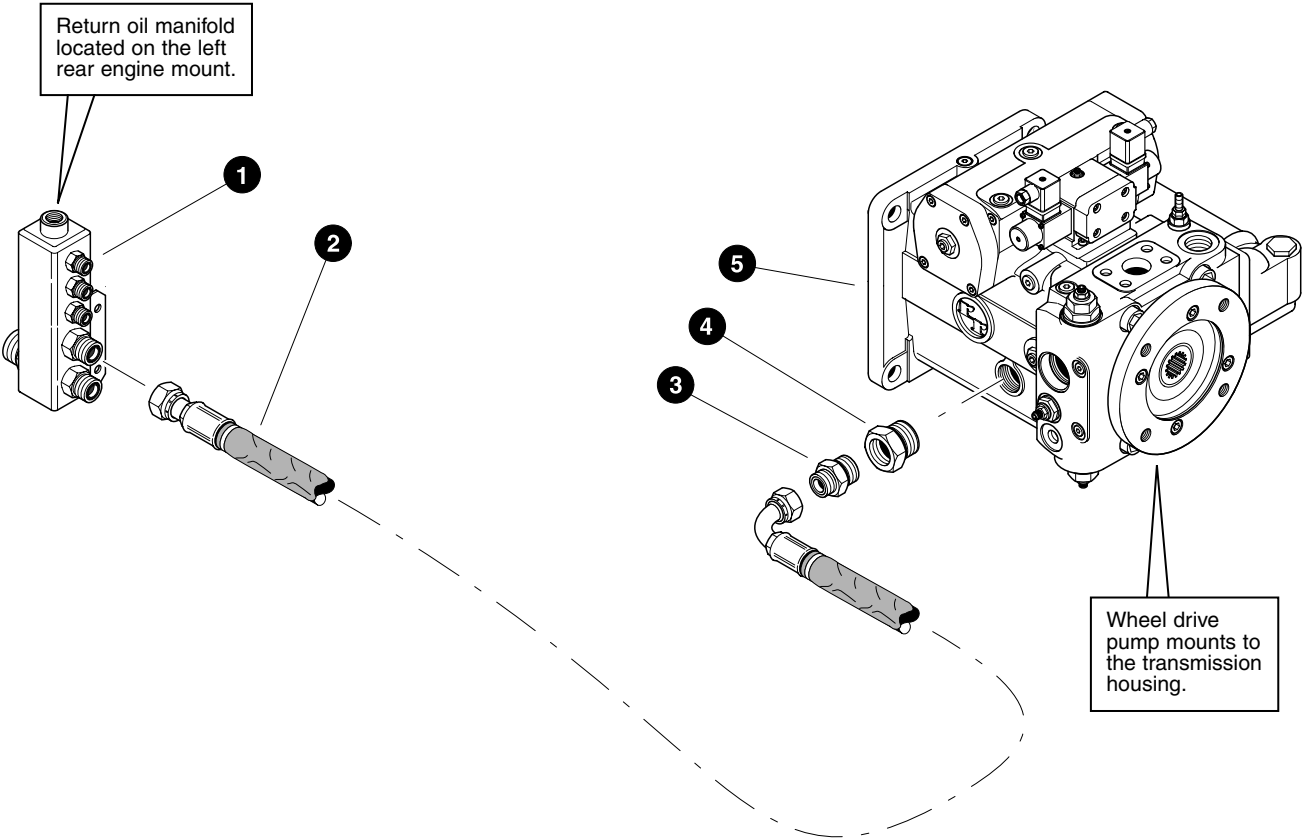
- ✓ See referenced page for component or assembly breakdown.
 □ Kit or Assembly - includes all items indented underneath.



WHEEL DRIVE PUMP SUCTION LINE

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15326	1		FILTER, screen - 100 mesh	
2	16760	1		BUSHING, black reducer - 2" x 1"	
3	16373	1		ELBOW, 90° street - 5502-16	
4	16706	1		VALVE, ball - 1"	
5	16375	1		NIPPLE, king - 4404-16-16	
6	19578	2		CLAMP, strap band - 1-3/4"	
7	21037	1		HOSE, suction - 1039-16	
8	19476	1		NIPPLE, 90° king - 4601-16	
9	17015	1		BUSHING, reducer - 6410-20-16	
10	17053	1		BUSHING, reducer - 6405-24-20	
11	REF.	1	✓	WHEEL DRIVE PUMP	C.3.2
12	15549	4		BOLT - 3/4" x 2"	
13	15550	4		WASHER, SAE flat - 3/4"	
14	22011	1		O-RING	
15	REF.	1	✓	TRANSMISSION HOUSING	Varies

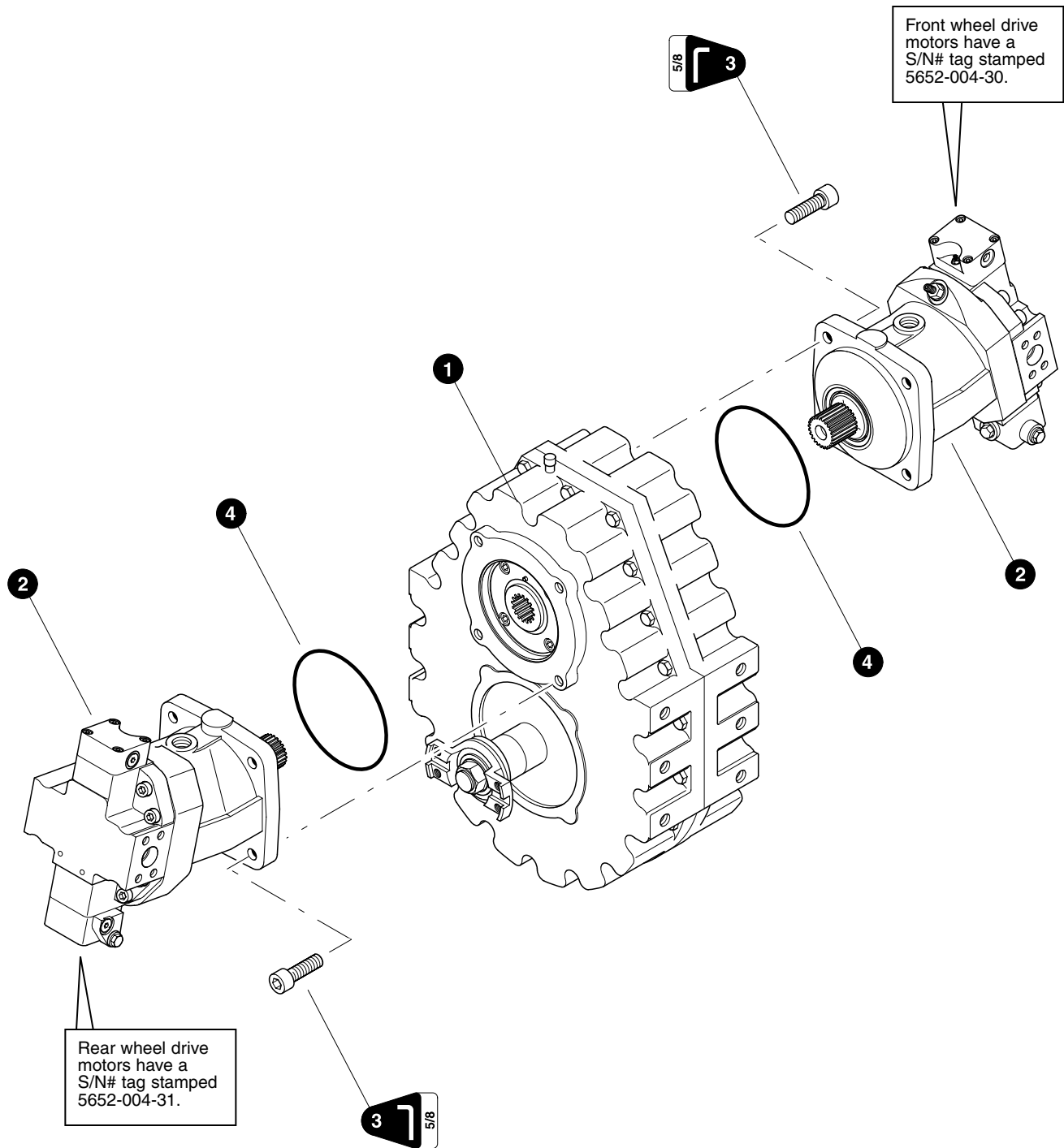
- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.



WHEEL DRIVE PUMP CASE DRAIN LINE

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	17547	1		MANIFOLD, return oil	
2	20144	1		HOSE ASSEMBLY - 2036-12-120S-1209 (<i>Wheel drive pump case drain port to return oil manifold</i>)	
3	15226	1		CONNECTOR, straight - FF1852T-1216S	
4	17015	1		BUSHING, reducer - 6410-20-16	
5	REF.	1	✓	WHEEL DRIVE PUMP	C.3.2

✓ See referenced page for component or assembly breakdown.



WHEEL DRIVE MOTOR INSTALLATION

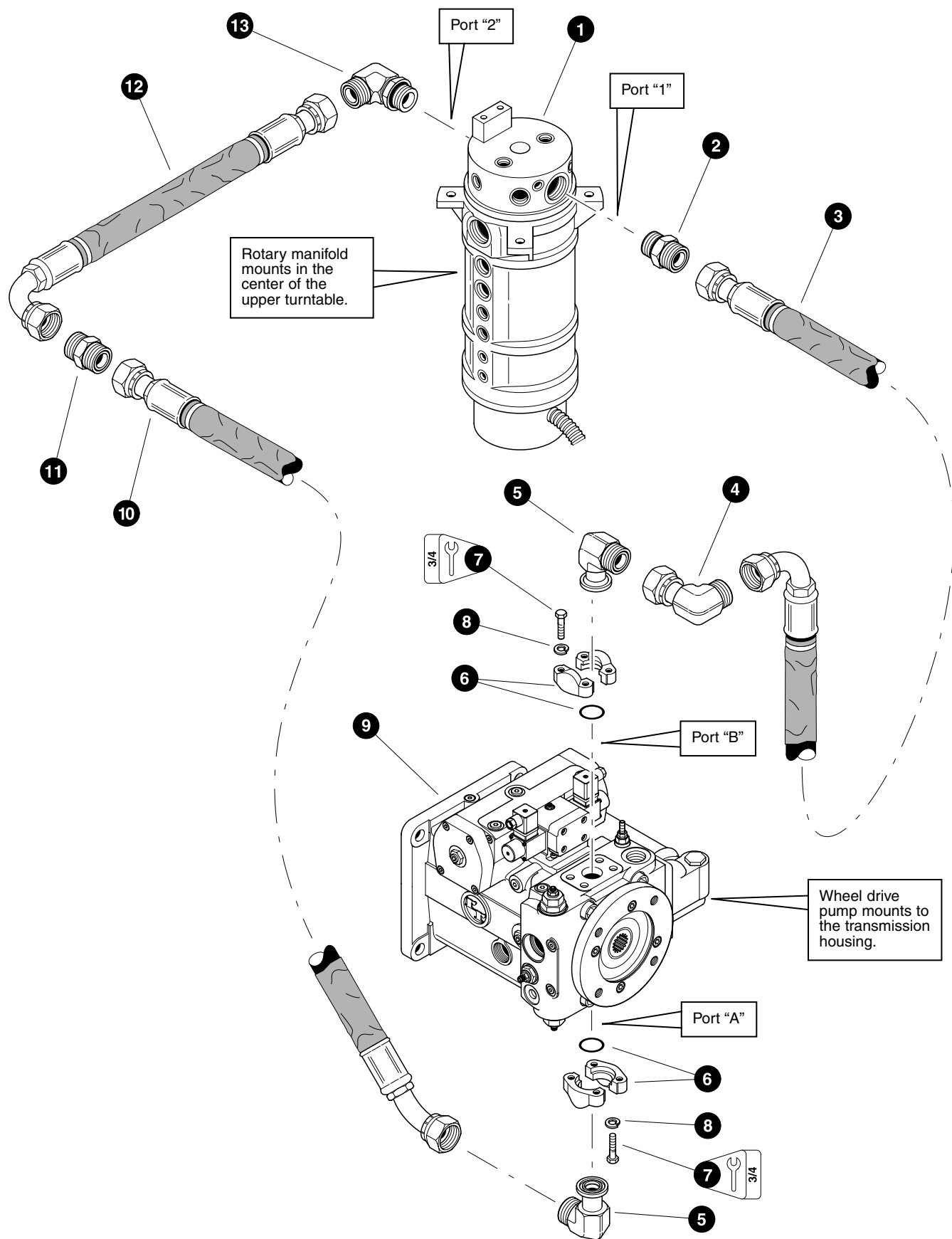
(Dual Mount - Superior Transfer Case)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	Ⓒ	TRANSFER CASE	
2	REF.	2	✓	WHEEL DRIVE MOTOR	C.3.12
3	20969	8		BOLT, allen head - 3/4" x 2-3/4" (Torque to 300 ft.lbs. (400 Nm))	
				(See Note Below)	
4	20967	2		O-RING	

- Ⓒ Contact your TIMBCO dealer for additional information.
 ✓ See referenced page for component or assembly breakdown.

Note:

Use Loctite 242 (*blue*) during installation.



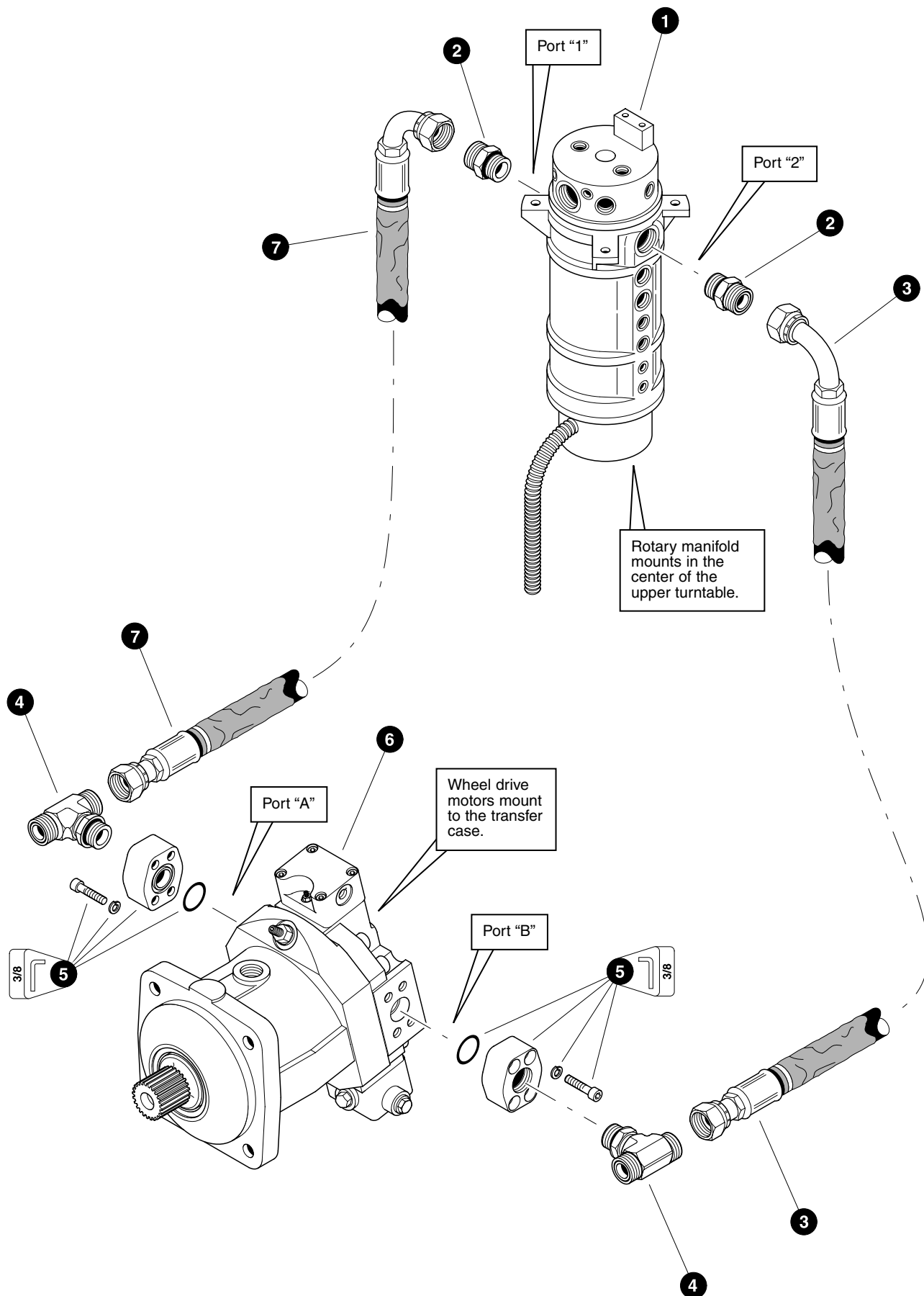
Parts 00937 12/03/98
18.75

WHEEL DRIVE PUMP PRESSURE LINES

(Wheel Drive Pump To Upper Rotary Manifold Ports)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	17344	2		CONNECTOR, straight - FF1852T-2020S	
3	21228	1		HOSE ASSEMBLY - 6058-20-200S-2009-W (<i>Wheel drive pump pressure port "B" to rotary manifold upper port "1"</i>)	
4	18573	1		ELBOW, 90° swivel - 879-TT-20	
5	21314	1		ADAPTER, 90° flange - 20 LOEQ2-S (<i>Code 62</i>)	
6	15114	2	□	KIT, split flange - 1-1/4" (<i>Code 62</i>)	
	15378	1		O-RING - 1-1/4" SF	
7	18933	4		BOLT - 1/2" x 1-3/4"	
8	10710	4		WASHER, lock - 1/2"	
9	REF.	1	✓	WHEEL DRIVE PUMP	C.3.2
10	21229	1		HOSE ASSEMBLY - 6037-20-200S-2004-W (<i>Wheel drive pump pressure port "A" to driveline connector</i>)	
11	21313	1		CONNECTOR, straight - 20 HLO-S	
12	21175	1		HOSE ASSEMBLY - 6013-20-200S-2009-W (<i>Driveline connector to rotary manifold upper port "2"</i>)	
13	17055	1		ELBOW, 90° - FF1868T-2020S	

- ✓ See referenced page for component or assembly breakdown.
 □ Kit or Assembly - includes all items indented underneath.



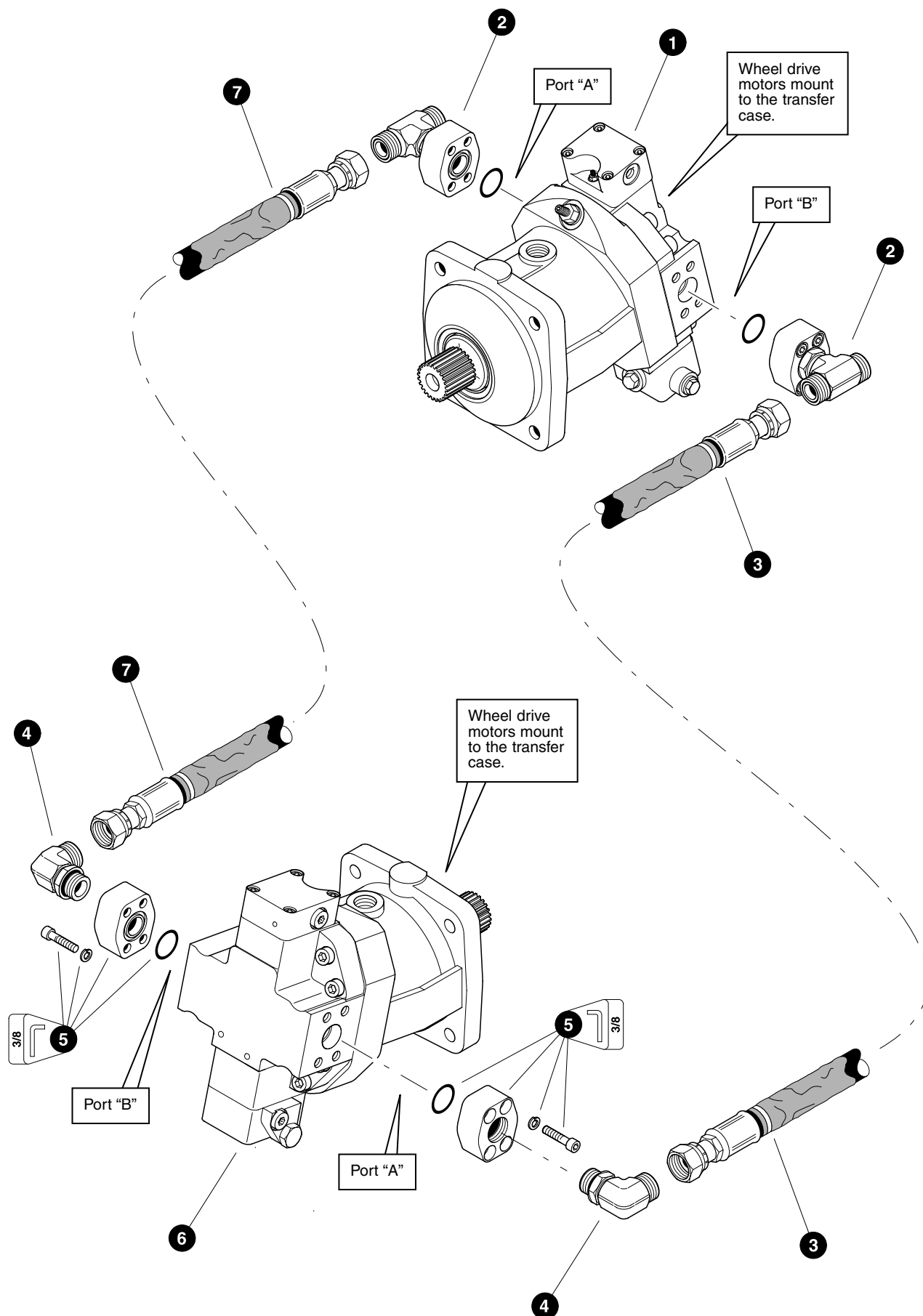
Parts 00938 12/03/98
18.75

WHEEL DRIVE PUMP PRESSURE LINES

(Lower Rotary Manifold Ports To Front Wheel Drive Motor)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	17344	2		CONNECTOR, straight - FF1852T-2020S	
3	21113	1		HOSE ASSEMBLY - 6044-20-200S-2009-W (<i>Rotary manifold lower port "2" to front wheel drive motor port "B" tee</i>)	
4	21311	2		TEE, branch - 20-S50L0-S	
5	17016	2	□	CONNECTOR, flange pad - 1-1/4" (Code 62)	
	15378	1		O-RING - 1-1/4" SF	
6	REF.	1	✓	FRONT WHEEL DRIVE MOTOR	C.3.12
7	21114	1		HOSE ASSEMBLY - 6045-20-200S-2009-W (<i>Rotary manifold lower port "1" to front wheel drive motor port "A" tee</i>)	

- ✓ See referenced page for component or assembly breakdown.
 □ Kit or Assembly - includes all items indented underneath.



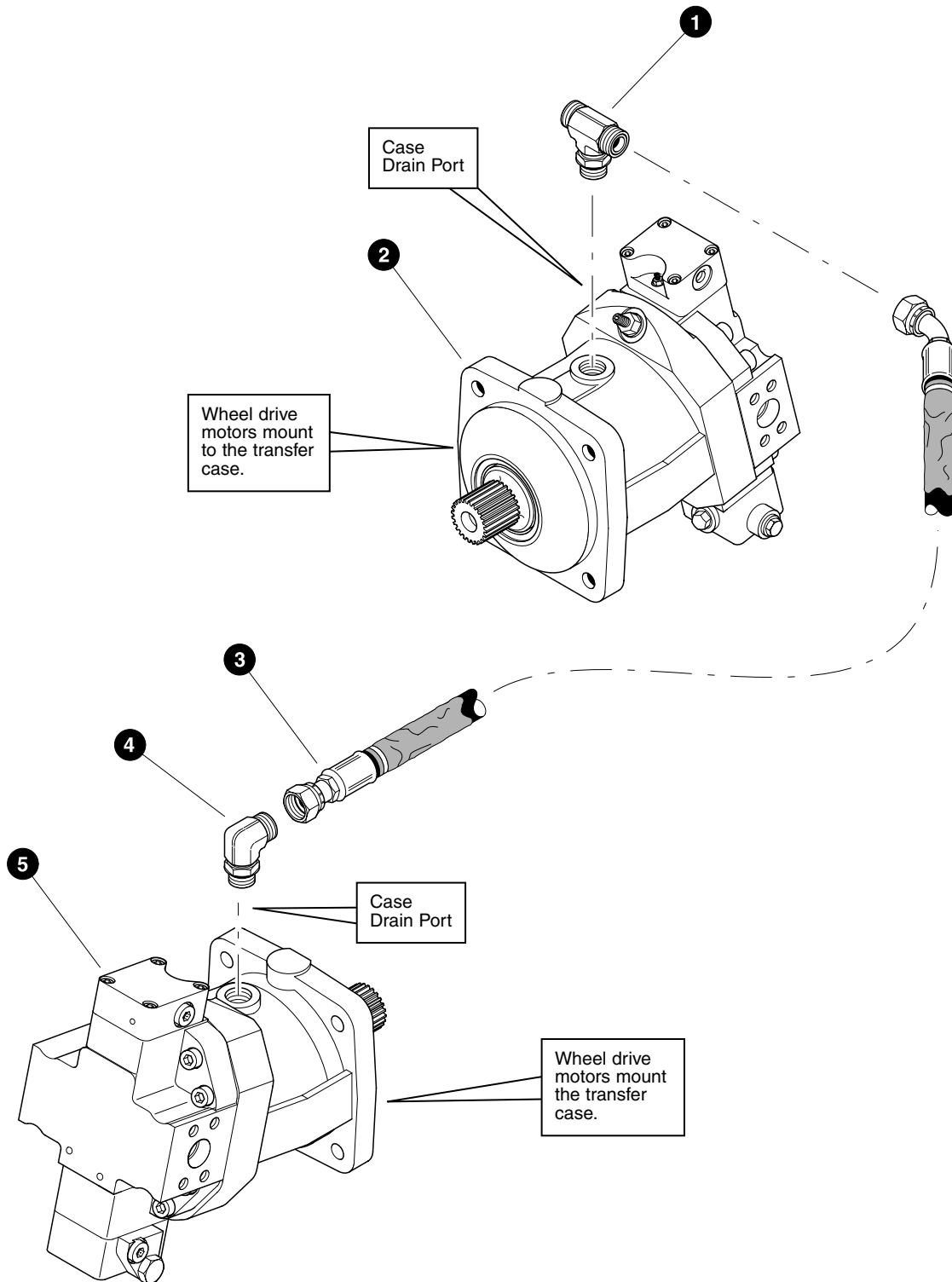
Parts 00939 12/03/98
18.75

WHEEL DRIVE PUMP PRESSURE LINES

(Front Wheel Drive Motor To Rear Wheel Drive Motor)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FRONT WHEEL DRIVE MOTOR	C.3.12
2	REF.	2	✓	FLANGE PAD CONNECTIONS	B.3.14
3	21174	1		HOSE ASSEMBLY - 6031-20-200S-200S-W (<i>Front wheel drive motor port "B" tee to rear wheel drive motor port "A"</i>)	
4	17055	2		ELBOW, 90° - FF1868T-2020S	
5	17016	2	☐	CONNECTOR, flange pad - 1-1/4" (Code 62)	
	15378	1		O-RING - 1-1/4" SF	
6	REF.	1	✓	REAR WHEEL DRIVE MOTOR	C.3.12
7	21174	1		HOSE ASSEMBLY - 6031-20-200S-200S-W (<i>Rear wheel drive motor port "B" tee to front wheel drive motor port "A"</i>)	

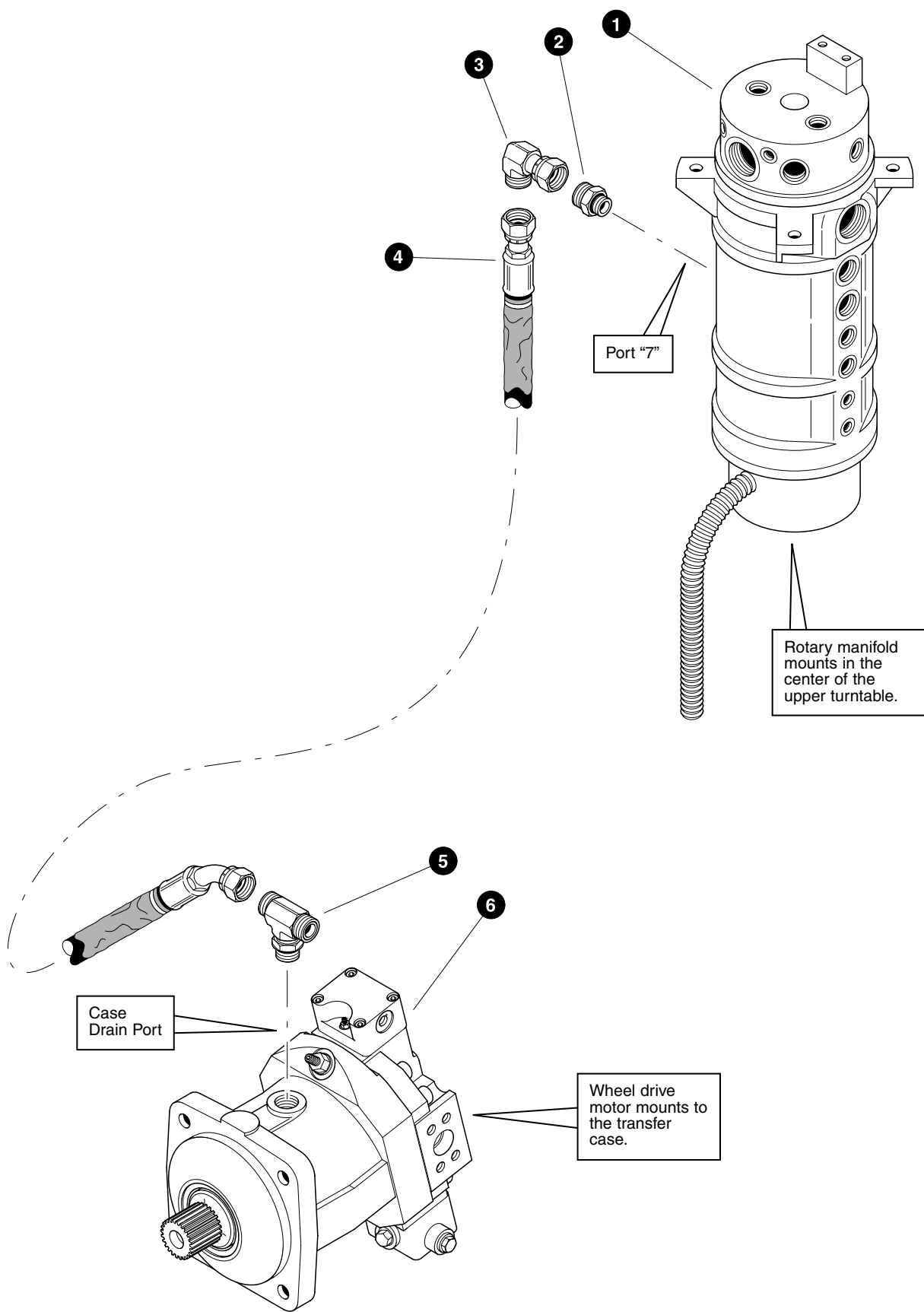
- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.



WHEEL DRIVE MOTOR CASE DRAIN LINE
(Rear Wheel Drive Motor To Front Wheel Drive Motor)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FRONT WHEEL DRIVE MOTOR	C.3.12
2	17687	1		TEE - FF2114T-1212S	
3	21177	1		HOSE ASSEMBLY - 2022.5-12-120S-1204-W (<i>Rear wheel drive motor case drain port to front wheel drive motor case drain port</i>)	
4	17688	1		ELBOW, 90° - FF1868T-1212S	
5	REF.	1	✓	REAR WHEEL DRIVE MOTOR	C.3.12

✓ See referenced page for component or assembly breakdown.

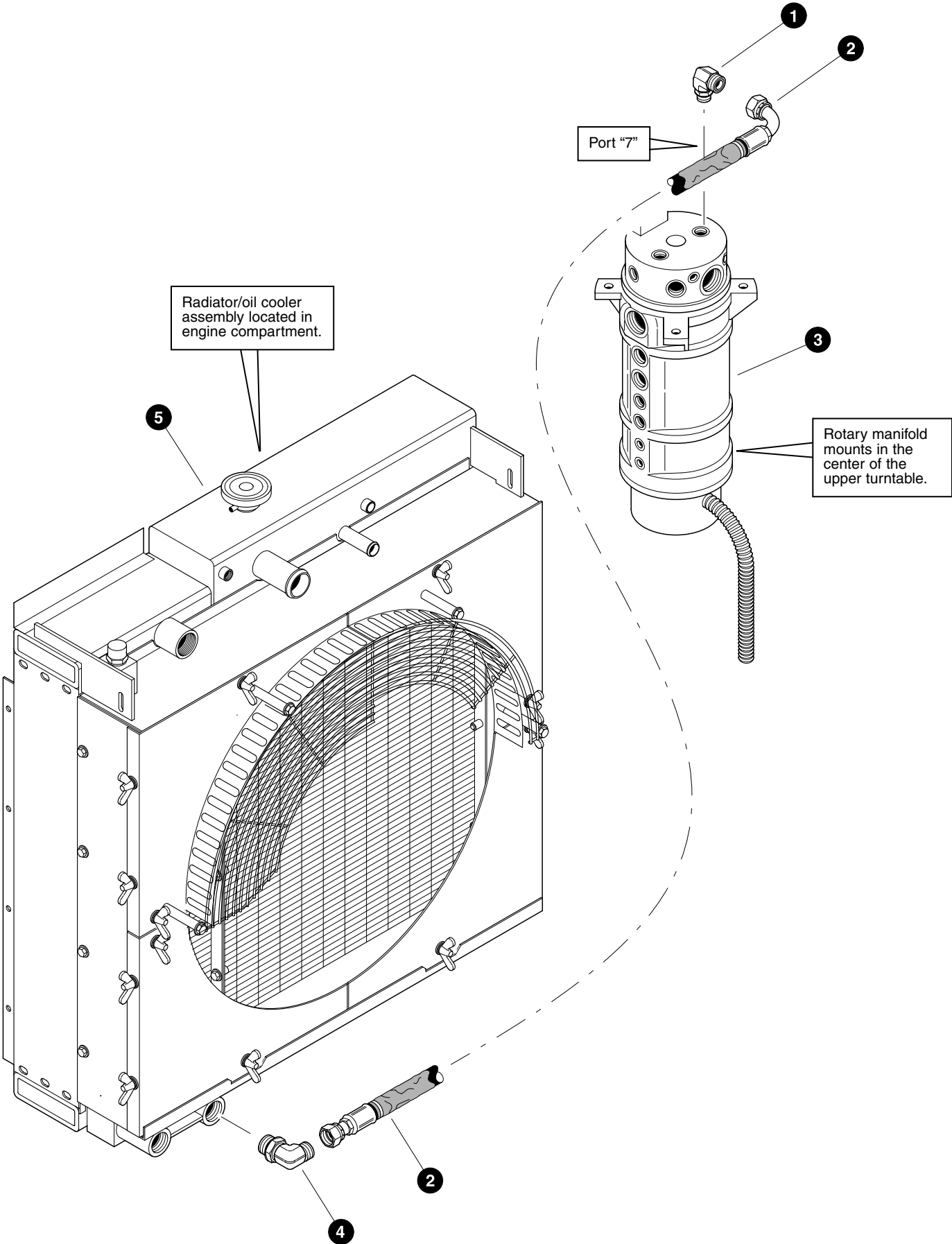


WHEEL DRIVE MOTOR CASE DRAIN LINE

(Front Wheel Drive Motor To Lower Rotary Manifold)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	16851	1		CONNECTOR, straight - FF1852T-1210S	
3	17670	1		ELBOW, 90° swivel - FF2098T-1212S	
4	21176	1		HOSE ASSEMBLY - 2053-12-120S-1204-W (<i>Front wheel drive motor case drain port to rotary manifold lower port "7"</i>)	
5	17687	1		TEE - FF2114T-1212S	
6	REF.	1	✓	FRONT WHEEL DRIVE MOTOR	C.3.12

✓ See referenced page for component or assembly breakdown.



Parts 00942 12/04/98
18.75

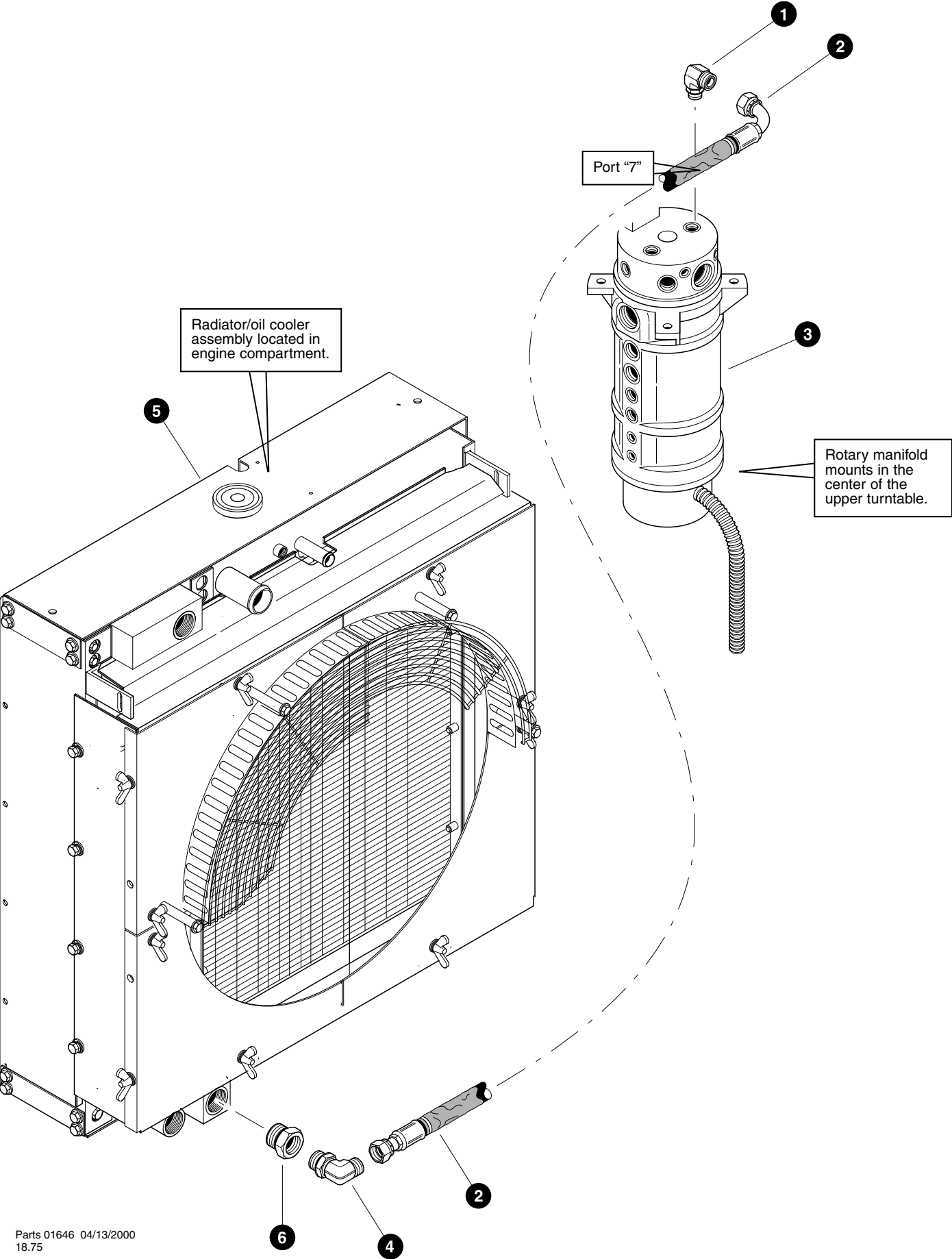
WHEEL DRIVE MOTOR CASE DRAIN LINE

(Upper Rotary Manifold Ports To Radiator/Oil Cooler)

(Used on machines PDN# 109FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	16422	1		ELBOW, 90° - FF1868T-1210S	
2	21178	1		HOSE ASSEMBLY - 2062-12-120S-1209-W <i>(Rotary manifold upper port "7" to radiator/oil cooler)</i>	
3	REF.	1	✓	ROTARY MANIFOLD	D.2.2
4	19128	1		ELBOW, 90° - FF1868T-1216S	
5	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2

✓ See referenced page for component or assembly breakdown.



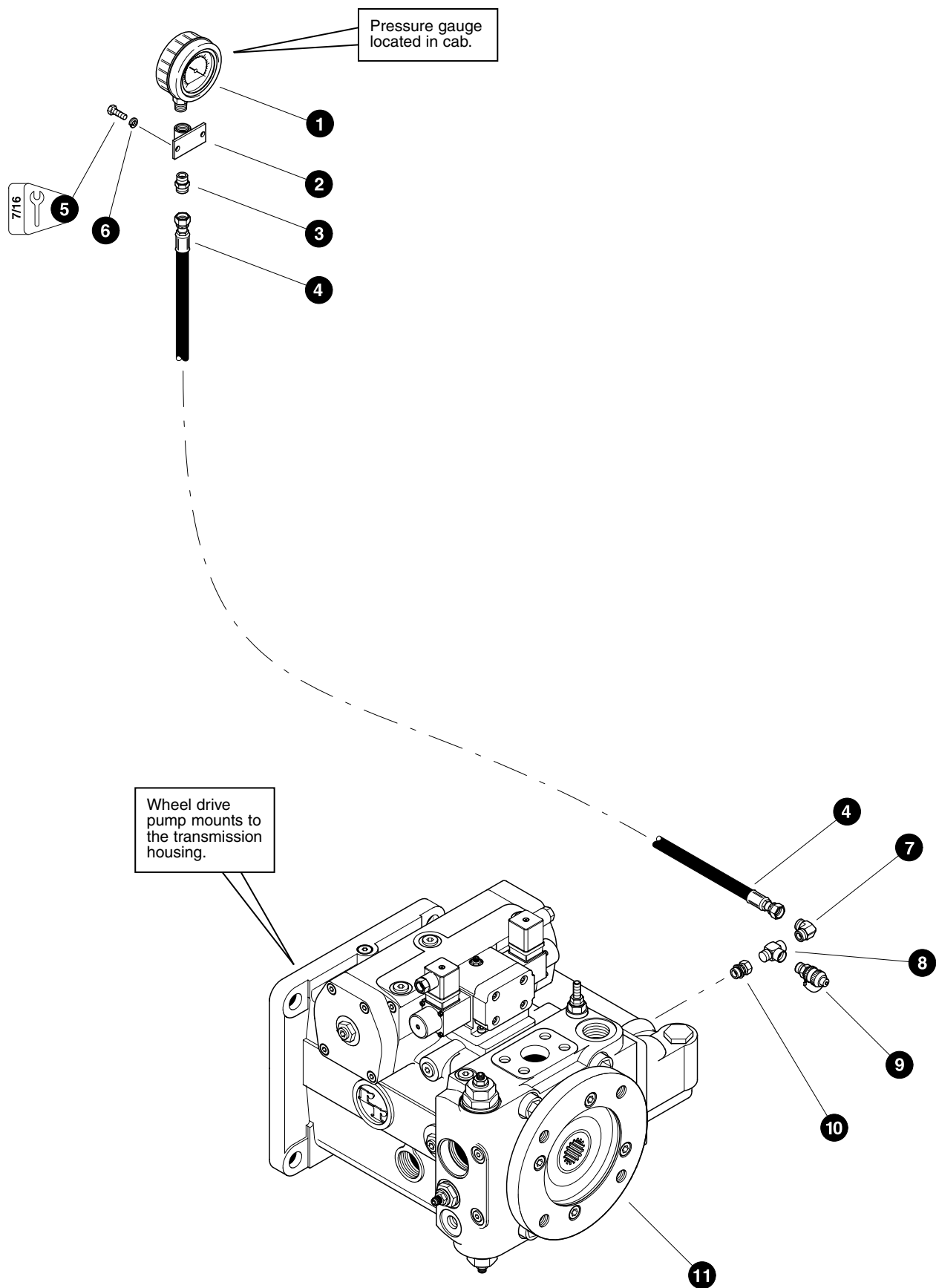
Parts 01646 04/13/2000
18.75

WHEEL DRIVE MOTOR CASE DRAIN LINE (Upper Rotary Manifold Ports To Radiator/Oil Cooler)

(Used on machines PDN# 110FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	16422	1		ELBOW, 90° - FF1868T-1210S	
2	21178	1		HOSE ASSEMBLY - 2062-12-120S-1209-W <i>(Rotary manifold upper port "7" to radiator/oil cooler)</i>	
3	REF.	1	✓	ROTARY MANIFOLD	D.2.2
4	19128	1		ELBOW, 90° - FF1868T-1216S	
5	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
6	17015	1		BUSHING, reducer - 6410-20-16	

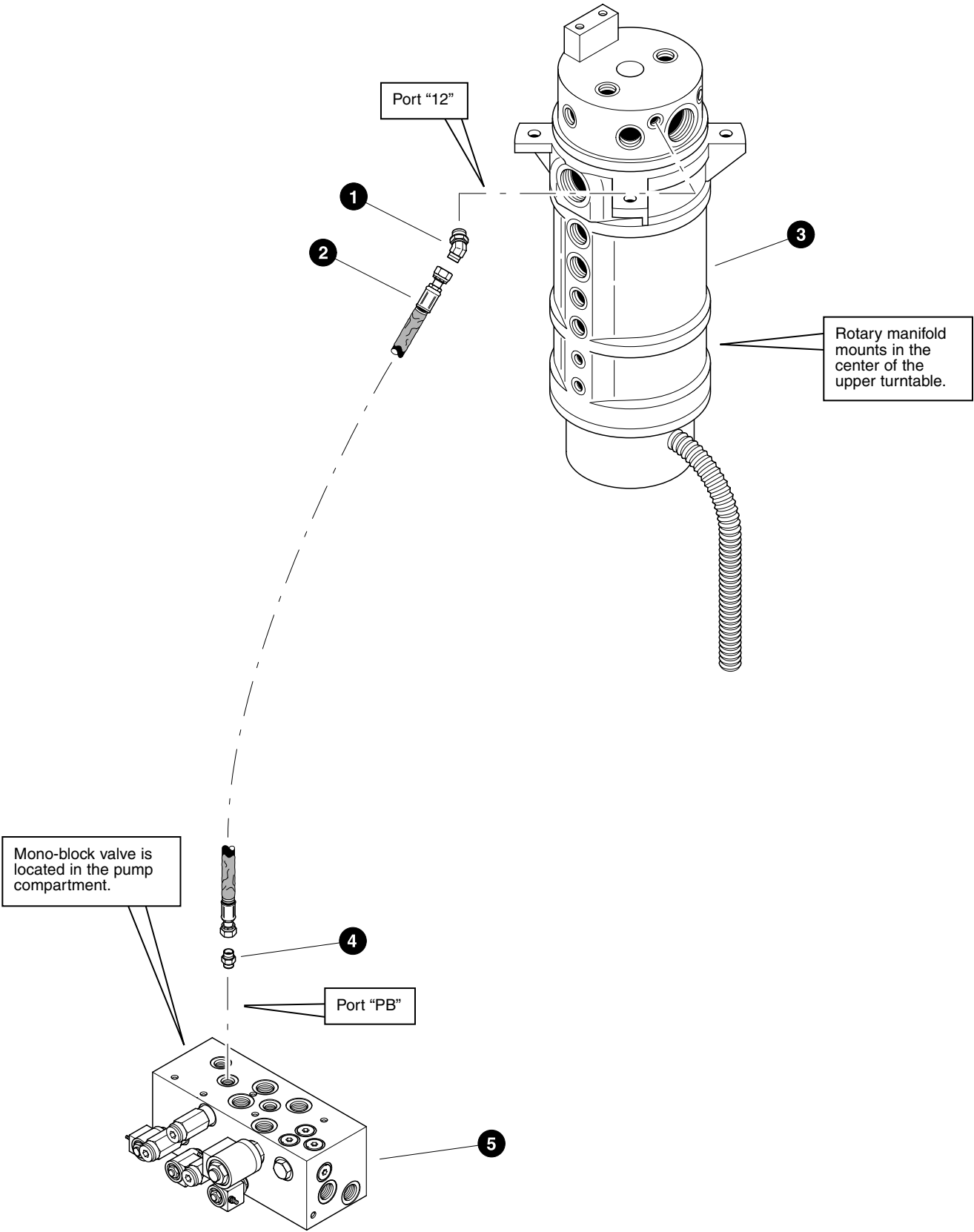
✓ See referenced page for component or assembly breakdown.



WHEEL DRIVE PRESSURE GAUGE LINE

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	19205	1	GAUGE, pressure - 10,000 PSI	
	16038	1	PROTECTOR, rubber gauge	
2	12222	1	BRACKET, cab gauge mount	
3	15131	1	CONNECTOR, straight - FF2031T-0404S	
4	21036	1	HOSE ASSEMBLY - 4115-04-040S-040S-W (<i>Wheel drive pump gauge port to gauge in cab</i>)	
5	15604	2	BOLT - 1/4" x 3/4"	
6	10756	2	WASHER, lock - 1/4"	
7	15505	1	ELBOW, 90° - FF2032T-0404S	
8	10393	1	TEE - 5602-4	
9	15118	1	TAP, gauge port - 1/4" pipe thread	
10	15328	1	CONNECTOR, straight swivel - 6900-4-4	
11	REF.	1	✓ WHEEL DRIVE PUMP	C.3.2

✓ See referenced page for component or assembly breakdown.

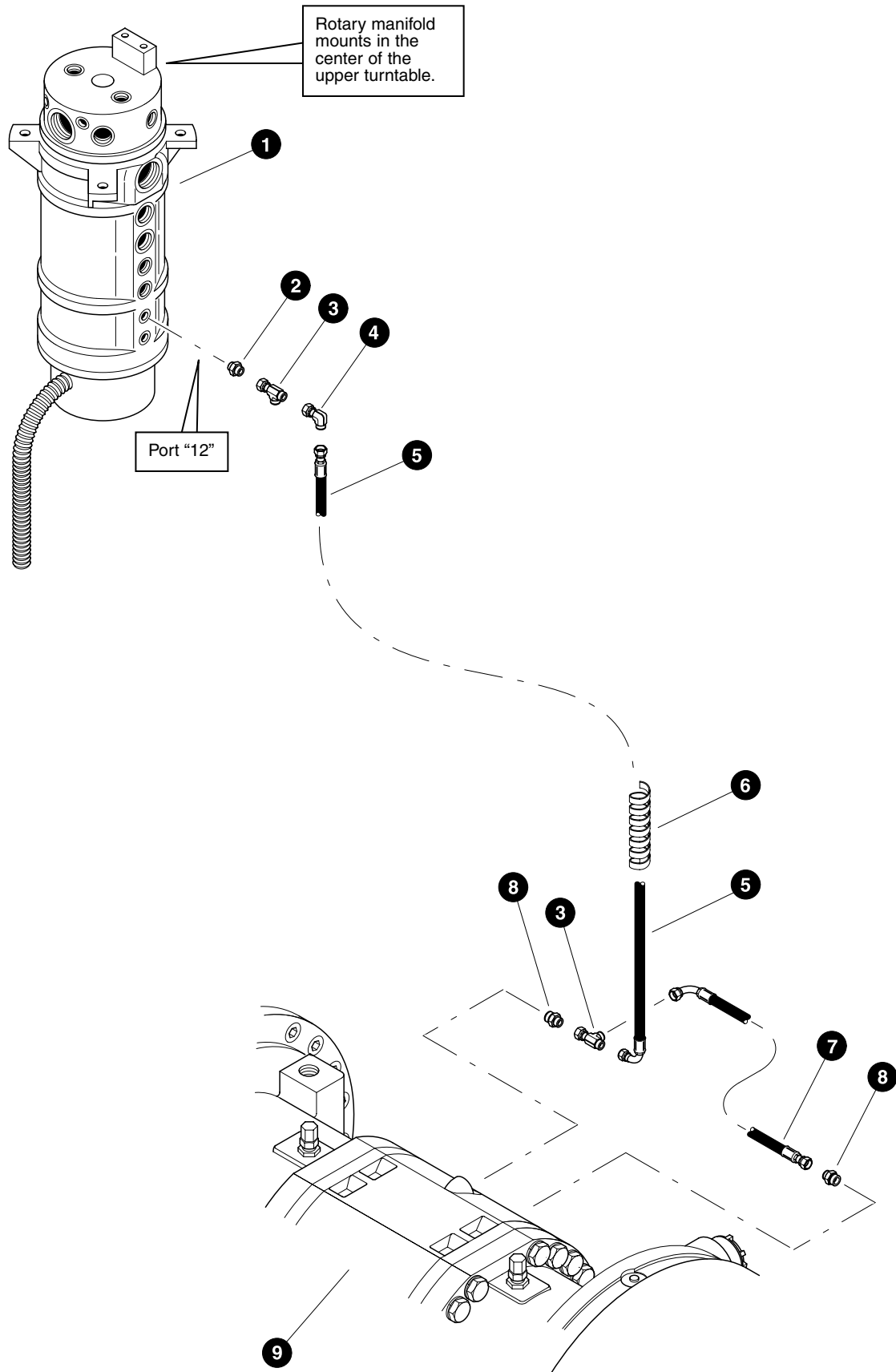


PARKING BRAKE LINES

(Mono-Block Valve To Upper Rotary Manifold)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19683	1		ELBOW, 45° - FF2068T-0404S	
2	20862	1		HOSE ASSEMBLY - 2098.5-04-040S-040S-W (<i>Mono-block valve port "PB" to rotary manifold upper port "12"</i>)	
3	REF.	1	✓	ROTARY MANIFOLD	D.2.2
4	15124	1		CONNECTOR, straight - FF1852T-0406S	
5	REF.	1	✓	MONO-BLOCK VALVE	D.1.6

✓ See referenced page for component or assembly breakdown.



Parts 00948 12/04/98
18.75

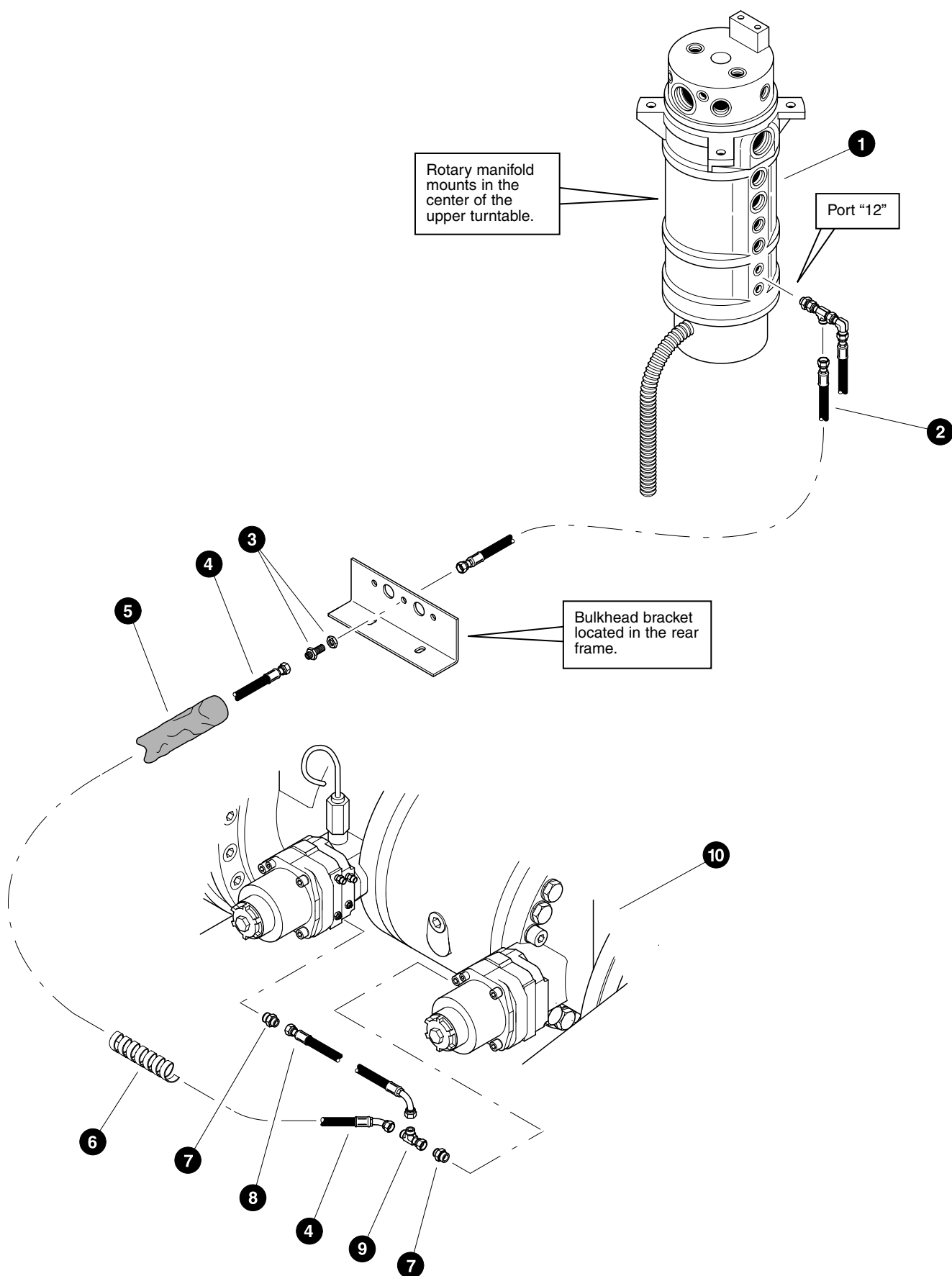
PARKING BRAKE LINES

(Lower Rotary Manifold To Front Axle)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	16541	1		CONNECTOR, straight - FF1852T-0404S	
3	15176	2		TEE - FF2114T-0404S	
4	15145	1		ELBOW, 90° swivel - FF2098T-0404S	
5	20935	1		HOSE ASSEMBLY - 2035-04-040S-0409 (<i>Rotary manifold lower port "12" tee to front axle parking brake tee</i>)	
6	20843	AR	✂	PROTECTOR, spiral hose wrap - 3/4"	
7	20167	1		HOSE ASSEMBLY - 2009.5-04-040S-0409 (<i>Front axle parking brake tee to RH brake chamber</i>)	
8	19470	2		CONNECTOR, straight - 4M14F8OMLO-S	
9	REF.	1	✓	FRONT AXLE	Blue D

✓ See referenced page for component or assembly breakdown.

✂ Bulk material - order length required in feet or metres.



Parts 00949 12/04/98
18.75

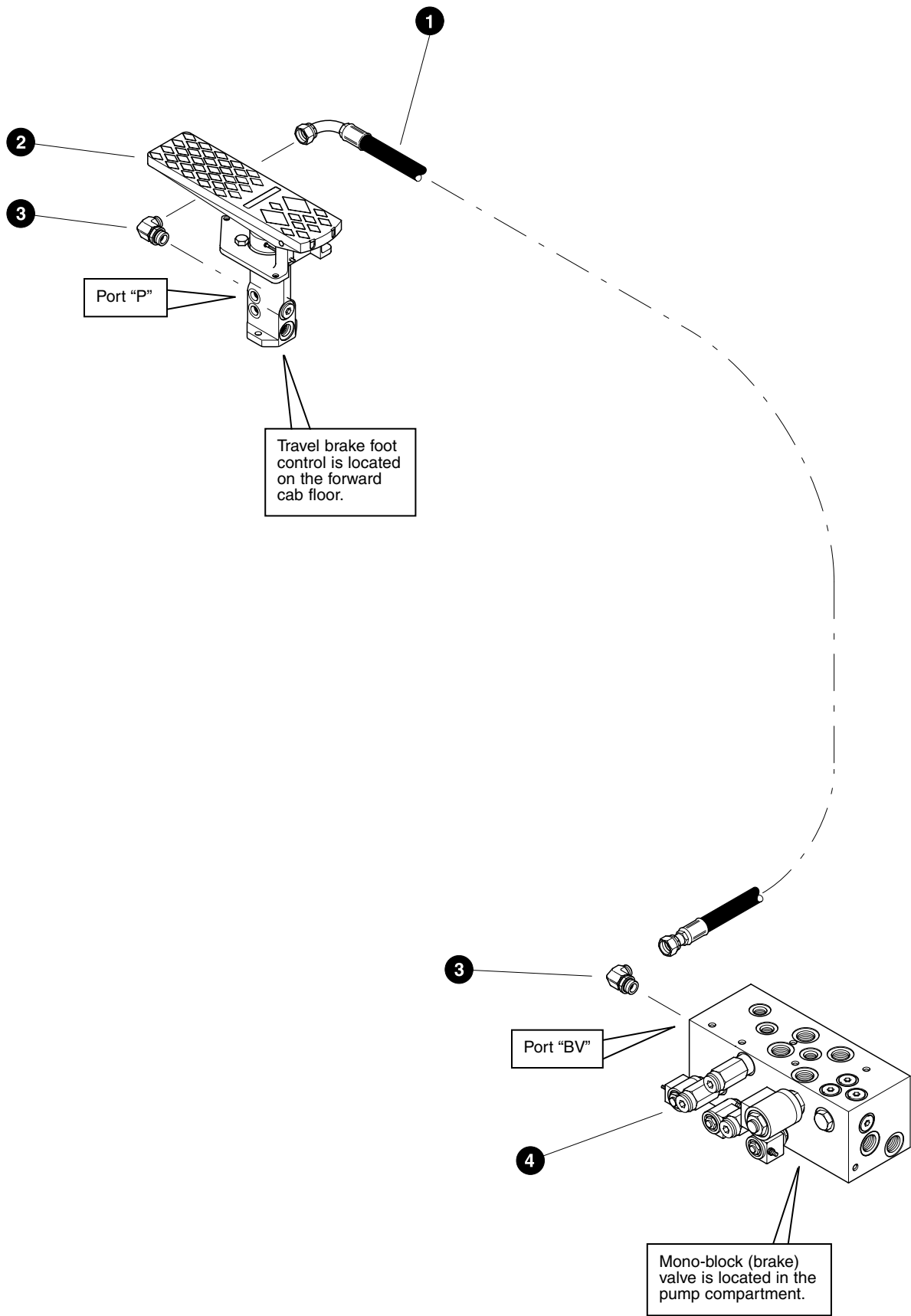
PARKING BRAKE LINES

(Lower Rotary Manifold To Rear Axle)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	20458	1		HOSE ASSEMBLY - 2107-04-040S-040S (<i>Rotary manifold lower port "12" tee to bulkhead bracket center</i>)	
3	18582	1		CONNECTOR, sraight bulkhead - FF1994T-0404S	
4	20464	1		HOSE ASSEMBLY - 2138.5-04-040S-0404 (<i>Bulkhead bracket center to rear axle parking brake tee</i>)	
5	16207	AR	✂	SLEEVE, protective hose - 1-3/4"	
6	20843	AR	✂	PROTECTOR, spiral hose wrap - 3/4"	
7	19470	2		CONNECTOR, straight - 4M14F8OMLO-S	
8	20167	1		HOSE ASSEMBLY - 2009.5-04-040S-0409 (<i>Rear axle parking brake tee to LH brake chamber</i>)	
9	15176	1		TEE - FF2114T-0404S	
10	REF.	1	✓	REAR AXLE	Blue E

✓ See referenced page for component or assembly breakdown.

✂ Bulk material - order length required in feet or metres.

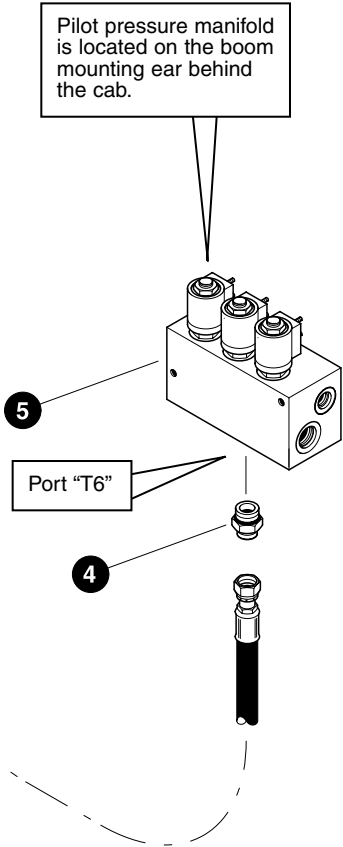
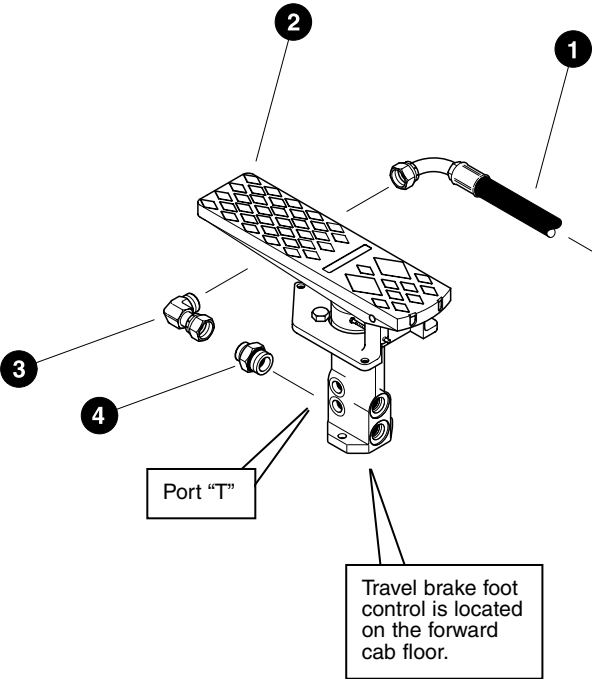


TRAVEL BRAKE LINES

(Mono-Block Valve To Travel Brake Foot Control)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20087	1		HOSE ASSEMBLY - 2125-06-060S-0609 (<i>Mono-block valve port "BV" to travel brake foot control port "P"</i>)	
2	REF.	1	✓	TRAVEL BRAKE FOOT CONTROL	D.3.6
3	16296	2		ELBOW, 90° - FF1868T-0406S	
4	REF.	1	✓	MONO-BLOCK VALVE	D.1.6

✓ See referenced page for component or assembly breakdown.

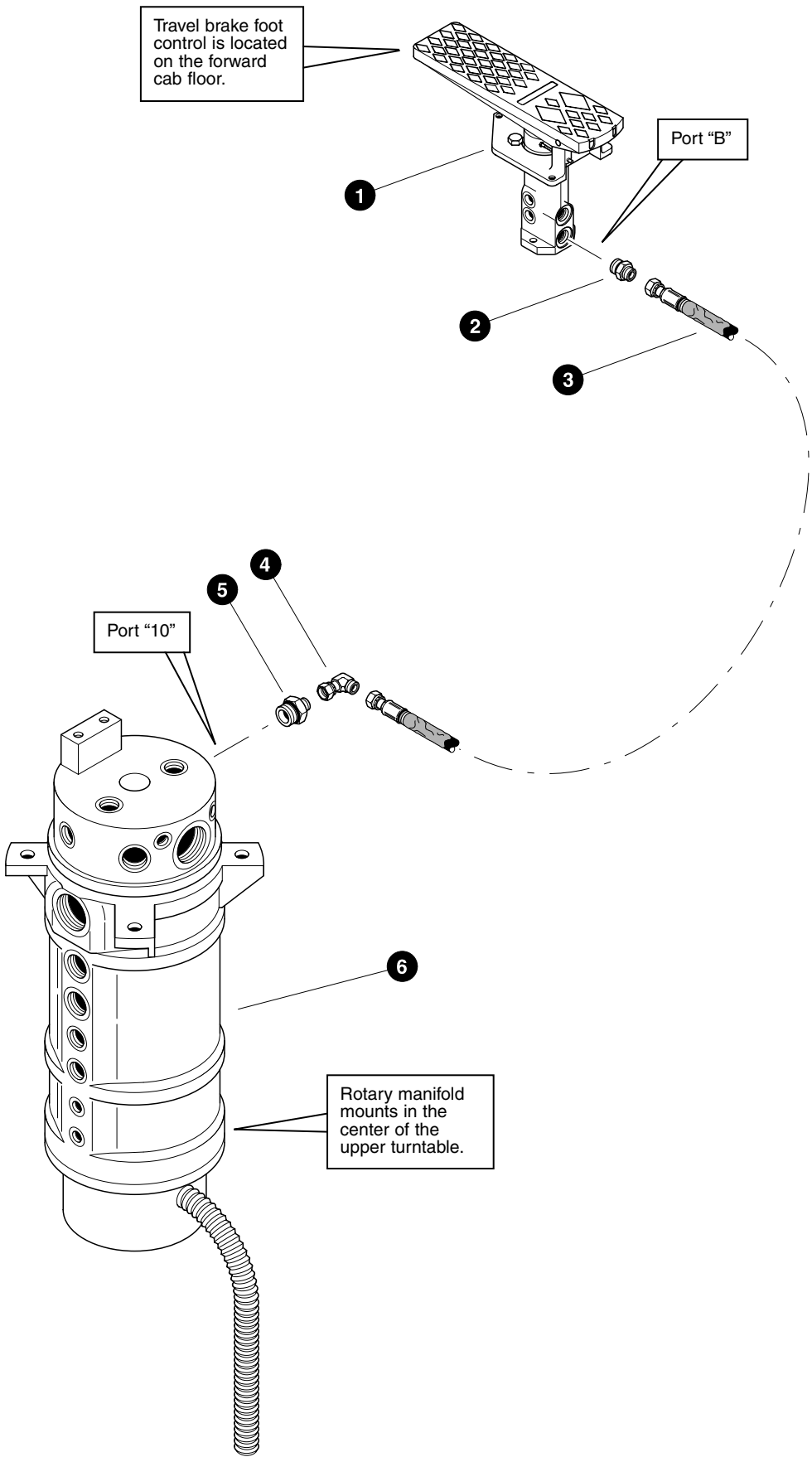


TRAVEL BRAKE LINES

(Travel Brake Foot Control To Pilot Pressure Manifold)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20092	1		HOSE ASSEMBLY - 2091-06-060S-0609 (<i>Travel brake foot control port "T" to pilot pressure manifold port "T6"</i>)	
2	REF.	1	✓	TRAVEL BRAKE FOOT CONTROL	D.3.6
3	20035	1		ELBOW, 90° swivel - FF2098T-0404S	
4	18034	2		CONNECTOR, straight - FF1852T-0406S	
5	REF.	1	✓	PILOT PRESSURE MANIFOLD	D.1.4

✓ See referenced page for component or assembly breakdown.



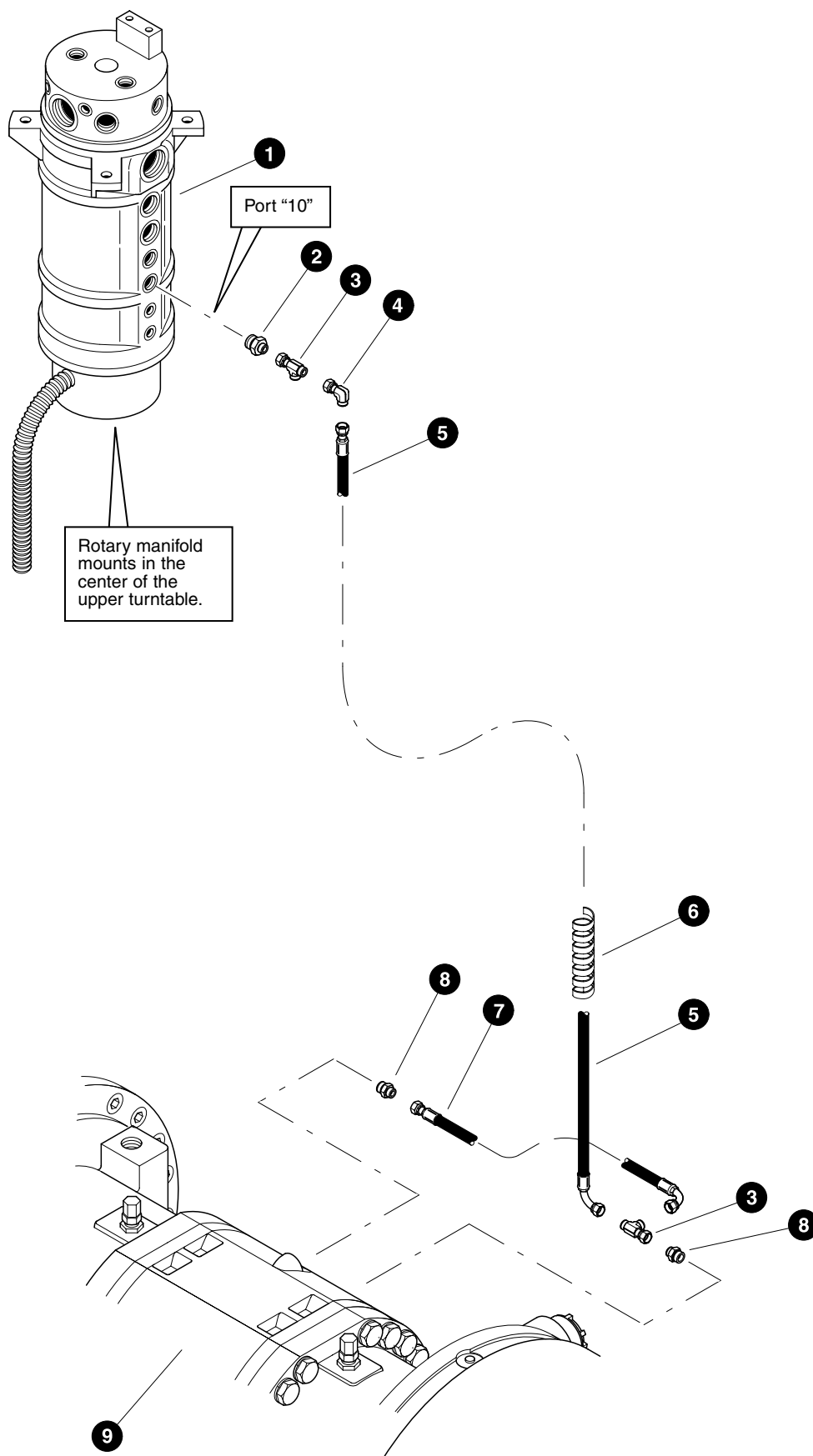
Parts 00950 12/04/98
25.00

TRAVEL BRAKE LINES

(Travel Brake Foot Control To Upper Rotary Manifold)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	TRAVEL BRAKE FOOT CONTROL	D.3.6
2	15124	1		CONNECTOR, straight - FF1852T-0406S	
3	20165	1		HOSE ASSEMBLY - 2049.5-04-040S-040S-W (<i>Travel brake foot control port "B" to upper rotary manifold port "10"</i>)	
4	15145	1		ELBOW, 90° swivel - FF2098T-0404S	
5	15504	1		CONNECTOR, STR FF1852T-0408S	
6	REF.	1	✓	ROTARY MANIFOLD	D.2.2

✓ See referenced page for component or assembly breakdown.



Parts 00951 12/04/98
18.75

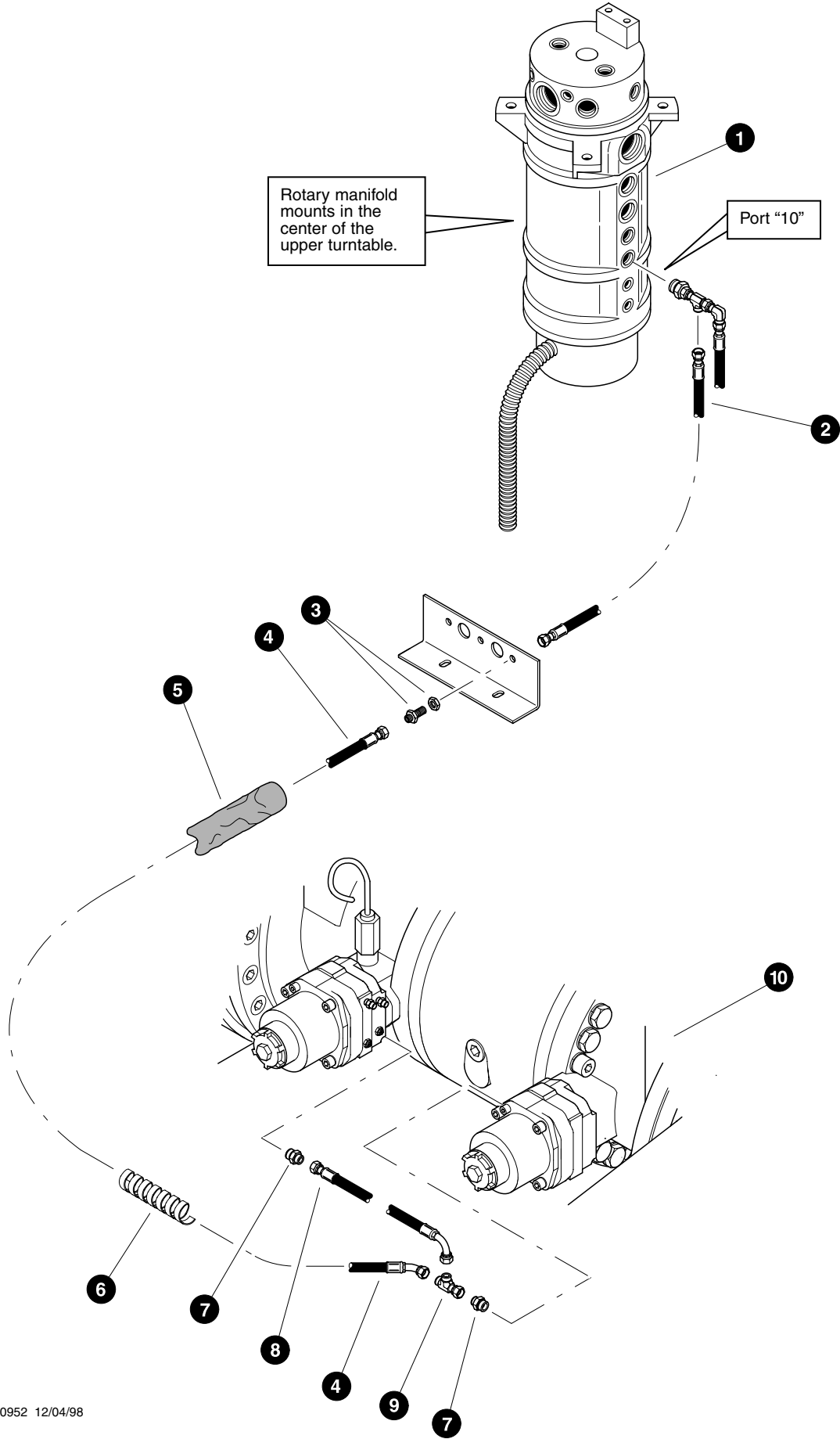
TRAVEL BRAKE LINES

(Lower Rotary Manifold To Front Axle)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	15504	1		CONNECTOR, straight - FF1852T-0408S	
3	15176	2		TEE - FF2114T-0404S	
4	15145	1		ELBOW, 90° swivel - FF2098T-0404S	
5	20863	1		HOSE ASSEMBLY - 2031.5-04-040S-0409 (<i>Rotary manifold lower port "10" to front travel brake tee</i>)	
5	15139	1		TEE - FF1898T-0404S	
6	20843	AR	✂	PROTECTOR, spiral hose wrap - 3/4"	
7	20167	1		HOSE ASSEMBLY - 2009.5-04-040S-0409 (<i>Front axle travel brake tee to LH brake chamber</i>)	
8	19470	2		CONNECTOR, straight - 4M14F8OMLO-S	
9	REF.	1	✓	FRONT AXLE	Blue D

✓ See referenced page for component or assembly breakdown.

✂ Bulk material - order length required in feet or metres.



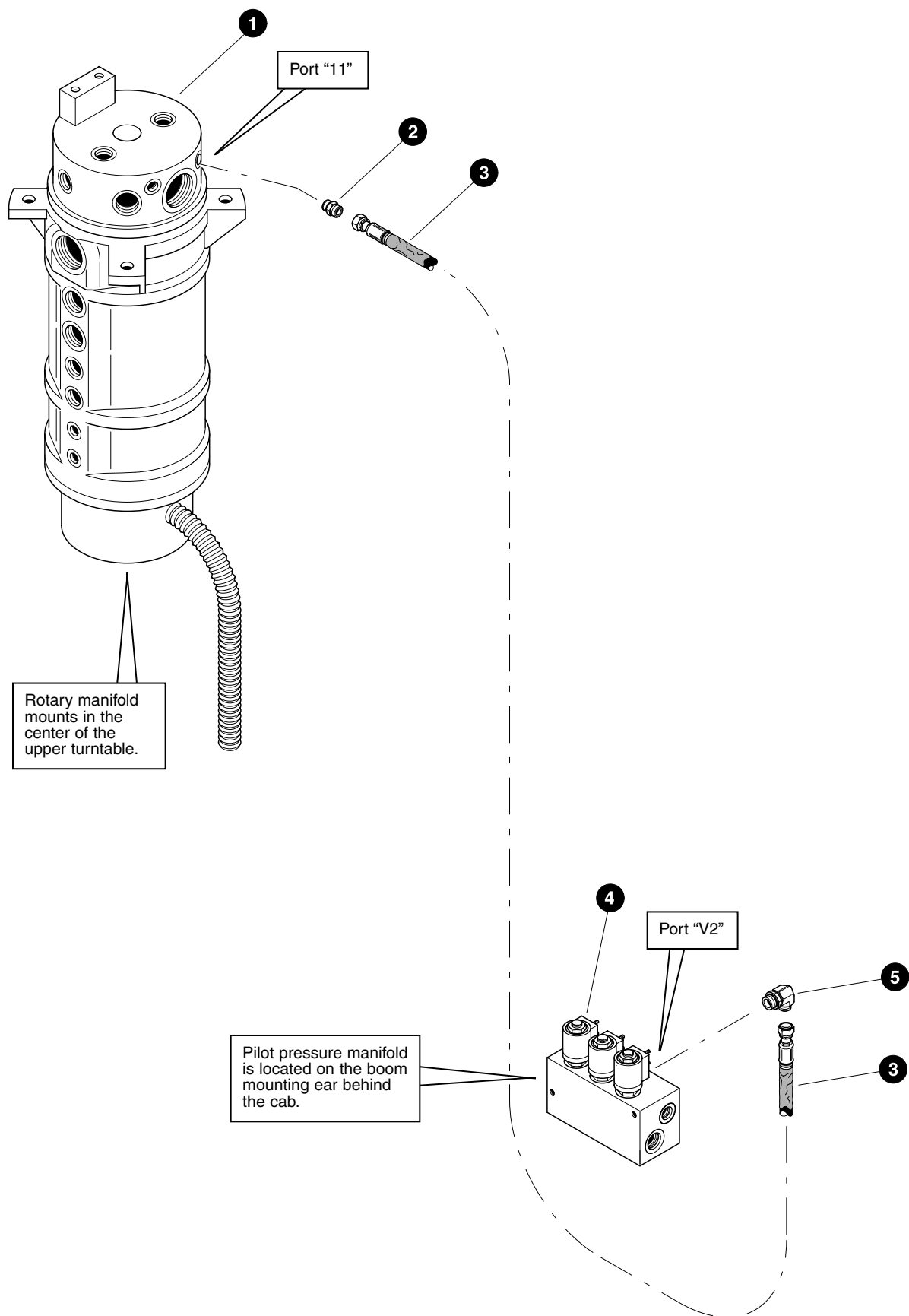
Parts 00952 12/04/98
18.75

TRAVEL BRAKE LINES

(Lower Rotary Manifold To Rear Axle)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	20458	1		HOSE ASSEMBLY - 2107-04-040S-040S (<i>Rotary manifold lower port "10" tee to bulkhead bracket right</i>)	
3	18582	1		CONNECTOR, sraight bulkhead - FF1994T-0404S	
4	20465	1		HOSE ASSEMBLY - 2139.5-04-040S-0404 (<i>Bulkhead bracket right to rear axle travel brake tee</i>)	
5	16207	AR	✂	SLEEVE, protective hose - 1-3/4"	
6	20843	AR	✂	PROTECTOR, spiral hose wrap - 3/4"	
7	19470	2		CONNECTOR, straight - 4M14F8OMLO-S	
8	20167	1		HOSE ASSEMBLY - 2009.5-04-040S-0409 (<i>Rear axle travel brake tee to LH brake chamber</i>)	
9	15176	1		TEE - FF2114T-0404S	
10	REF.	1	✓	REAR AXLE	Blue E

- ✓ See referenced page for component or assembly breakdown.
 ✂ Bulk material - order length required in feet or metres.

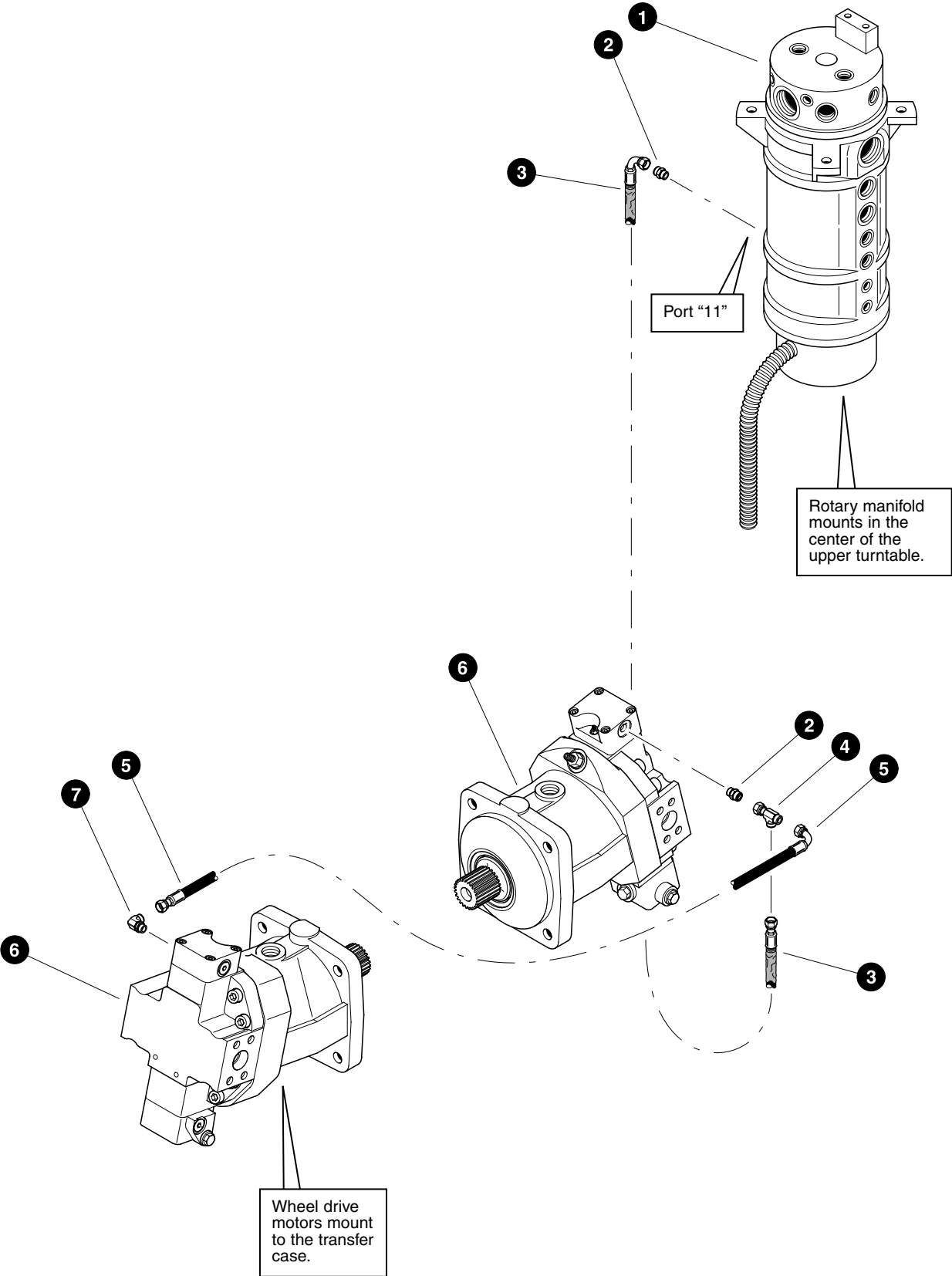


WHEEL DRIVE MOTOR MAX DISPLACEMENT LOCK LINE

(Pilot Pressure Manifold To Upper Rotary Manifold)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	15124	1		CONNECTOR, straight - FF1852T-0406S	
3	20103	1		HOSE ASSEMBLY - 2052-04-040S-040S-W (<i>Pilot pressure manifold port "V2" to rotary manifold upper port "11"</i>)	
4	REF.	1	✓	PILOT PRESSURE MANIFOLD	D.2.4
5	15133	1		ELBOW, 90° - FF1868T-0406S	

✓ See referenced page for component or assembly breakdown.

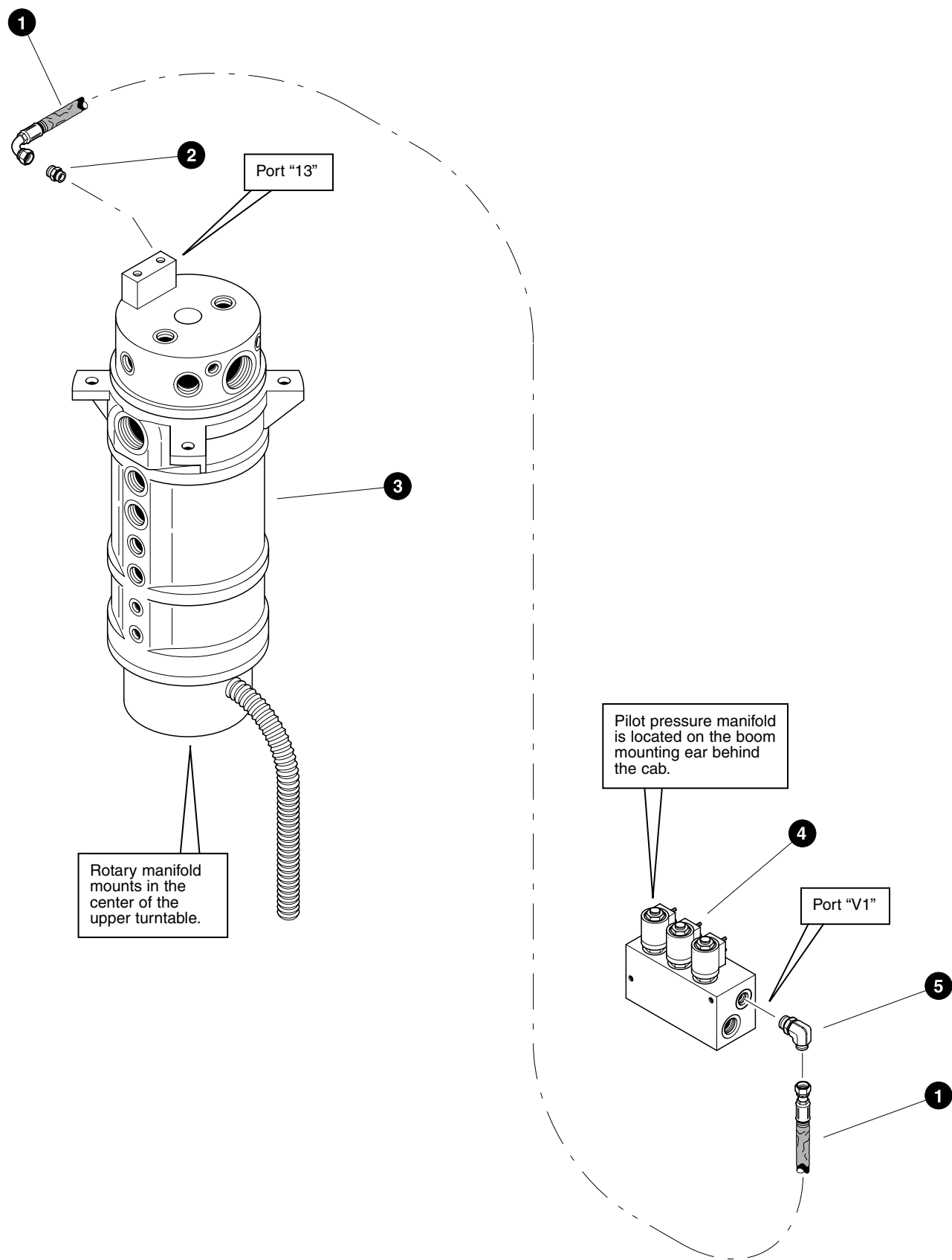


WHEEL DRIVE MOTOR MAX DISPLACEMENT LOCK LINE

(Lower Rotary Manifold To Wheel Drive Motors)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	15124	2		CONNECTOR, straight - FF1852T-0406S	
3	21000	1		HOSE ASSEMBLY - 2068-04-040S-0409-W (<i>Rotary manifold lower port "11" to front wheel drive motor tee</i>)	
4	15176	1		TEE - FF2114T-0404S	
5	20981	1		HOSE ASSEMBLY - 2032-04-040S-0409 (<i>Front wheel drive motor tee to rear wheel drive motor</i>)	
6	REF.	1	✓	WHEEL DRIVE MOTOR	C.3.22
7	15133	1		ELBOW, 90° - FF1868T-0406S	

✓ See referenced page for component or assembly breakdown.

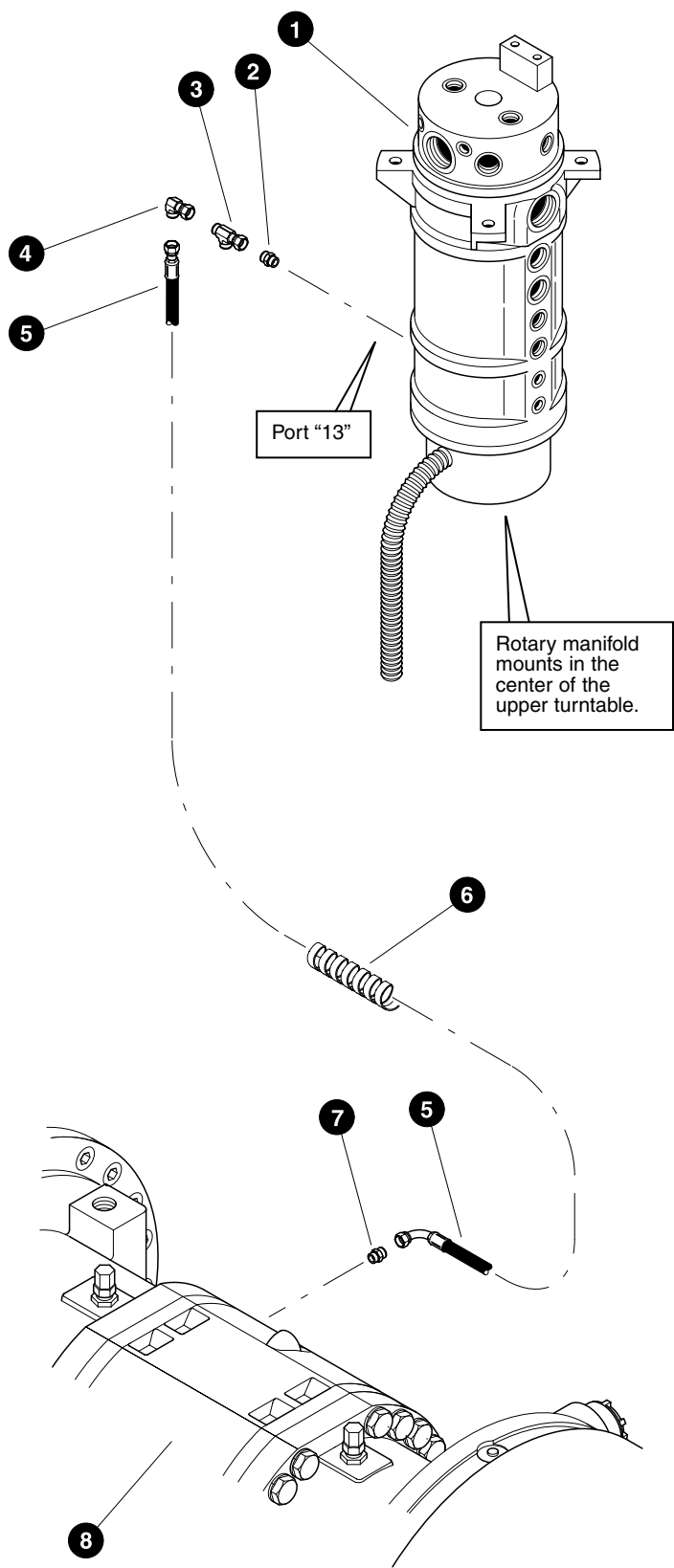


DIFFERENTIAL LOCK LINES

(Pilot Pressure Manifold To Upper Rotary Manifold)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20176	1		HOSE ASSEMBLY - 2062-04-040S-0409-W (<i>Pilot pressure manifold port "V1" to rotary manifold upper port "13"</i>)	
2	15124	1		CONNECTOR, straight - FF1852T-0406S	
3	REF.	1	✓	ROTARY MANIFOLD	D.2.2
4	REF.	1	✓	PILOT PRESSURE MANIFOLD	D.2.4
5	15133	1		ELBOW, 90° - FF1868T-0406S	

✓ See referenced page for component or assembly breakdown.



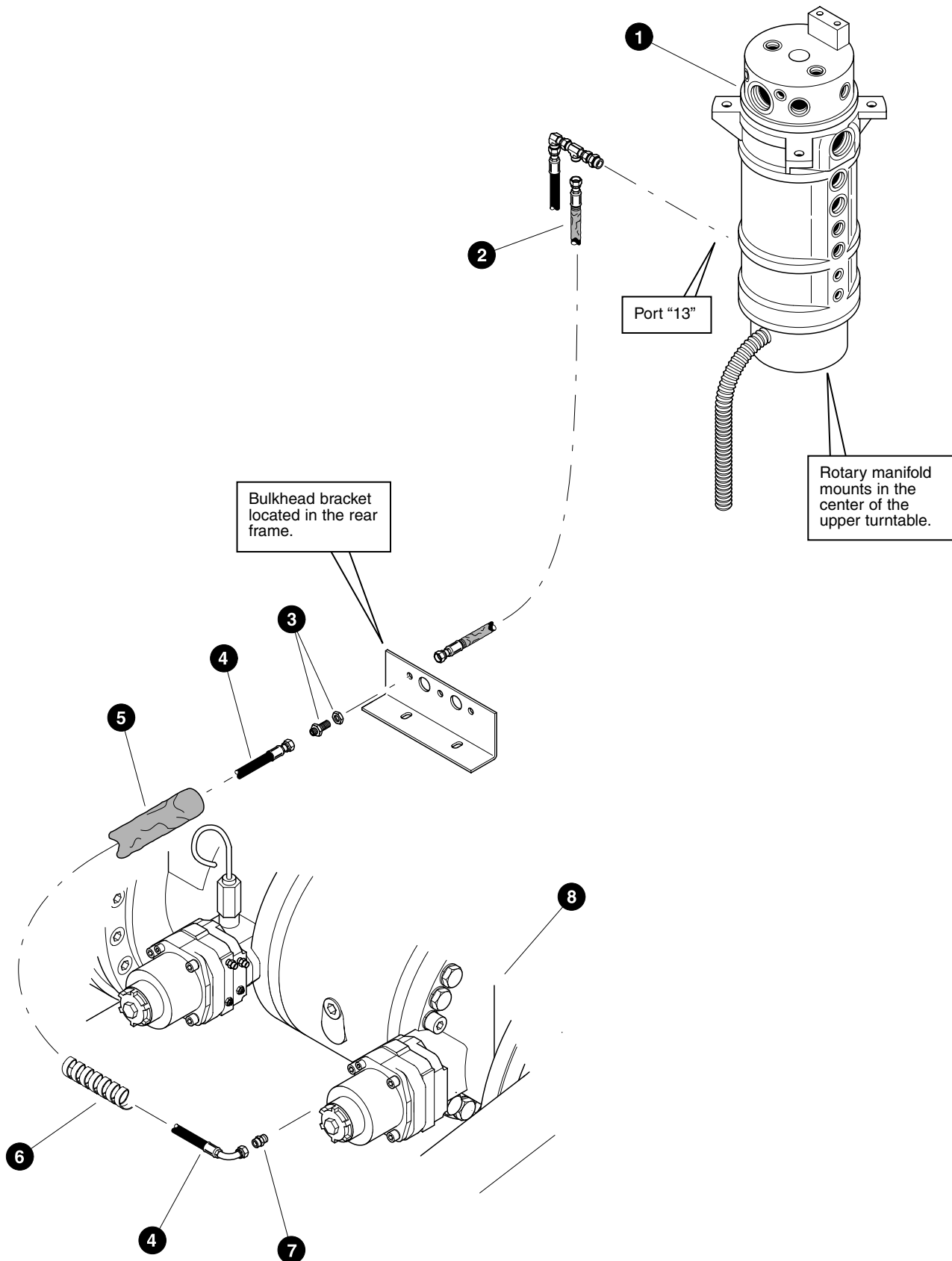
DIFFERENTIAL LOCK LINES

(Lower Rotary Manifold To Front Axle)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	15124	1		CONNECTOR, straight - FF1852T-0406S	
3	15176	1		TEE - FF2114T-0404S	
4	15145	1		ELBOW, 90° swivel - FF2098T-0404S	
5	20462	1		HOSE ASSEMBLY - 2037.5-04-040S-0409 (<i>Rotary manifold lower port "13" tee to front axle differential lock port</i>)	
6	20843	AR	✂	PROTECTOR, spiral hose wrap - 3/4"	
7	19470	1		CONNECTOR, straight - 4M14F8OMLO-S	
8	REF.	1	✓	FRONT AXLE	Blue D

✓ See referenced page for component or assembly breakdown.

✂ Bulk material - order length required in feet or metres.



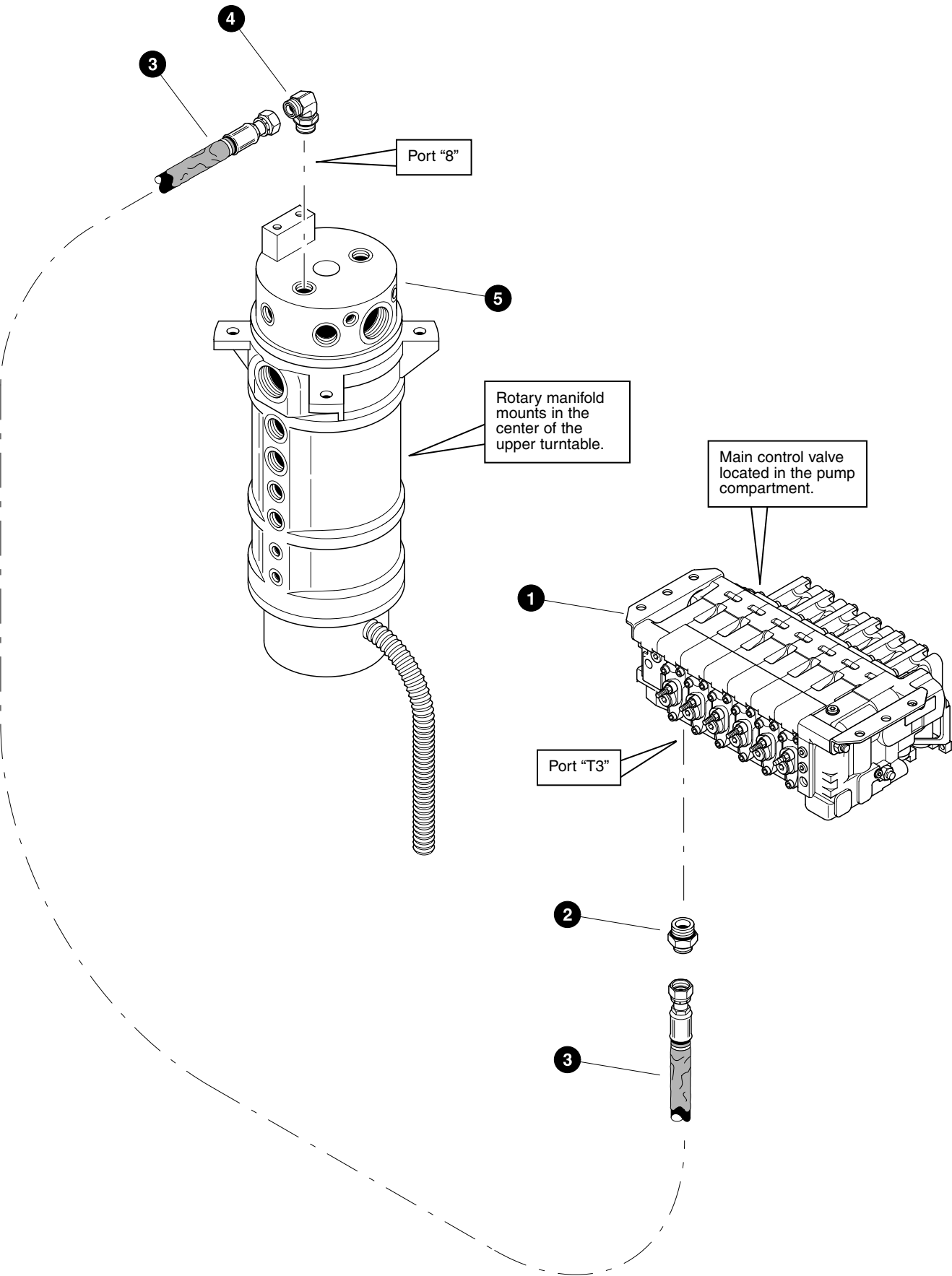
DIFFERENTIAL LOCK LINES

(Lower Rotary Manifold To Rear Axle)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	20162	1		HOSE ASSEMBLY - 2104-04-040S-040S-W (<i>Rotary manifold lower port "13" tee to bulkhead bracket left</i>)	
3	18582	1		CONNECTOR, sraight bulkhead - FF1994T-0404S	
4	20463	1		HOSE ASSEMBLY - 2137.5-04-040S-0409 (<i>Bulkhead bracket left to rear axle differential lock port</i>)	
5	16207	AR	✂	SLEEVE, protective hose - 1-3/4"	
6	20843	AR	✂	PROTECTOR, spiral hose wrap - 3/4"	
7	19470	1		CONNECTOR, straight - 4M14F8OMLO-S	
8	REF.	1	✓	REAR AXLE	Blue E

✓ See referenced page for component or assembly breakdown.

✂ Bulk material - order length required in feet or metres.

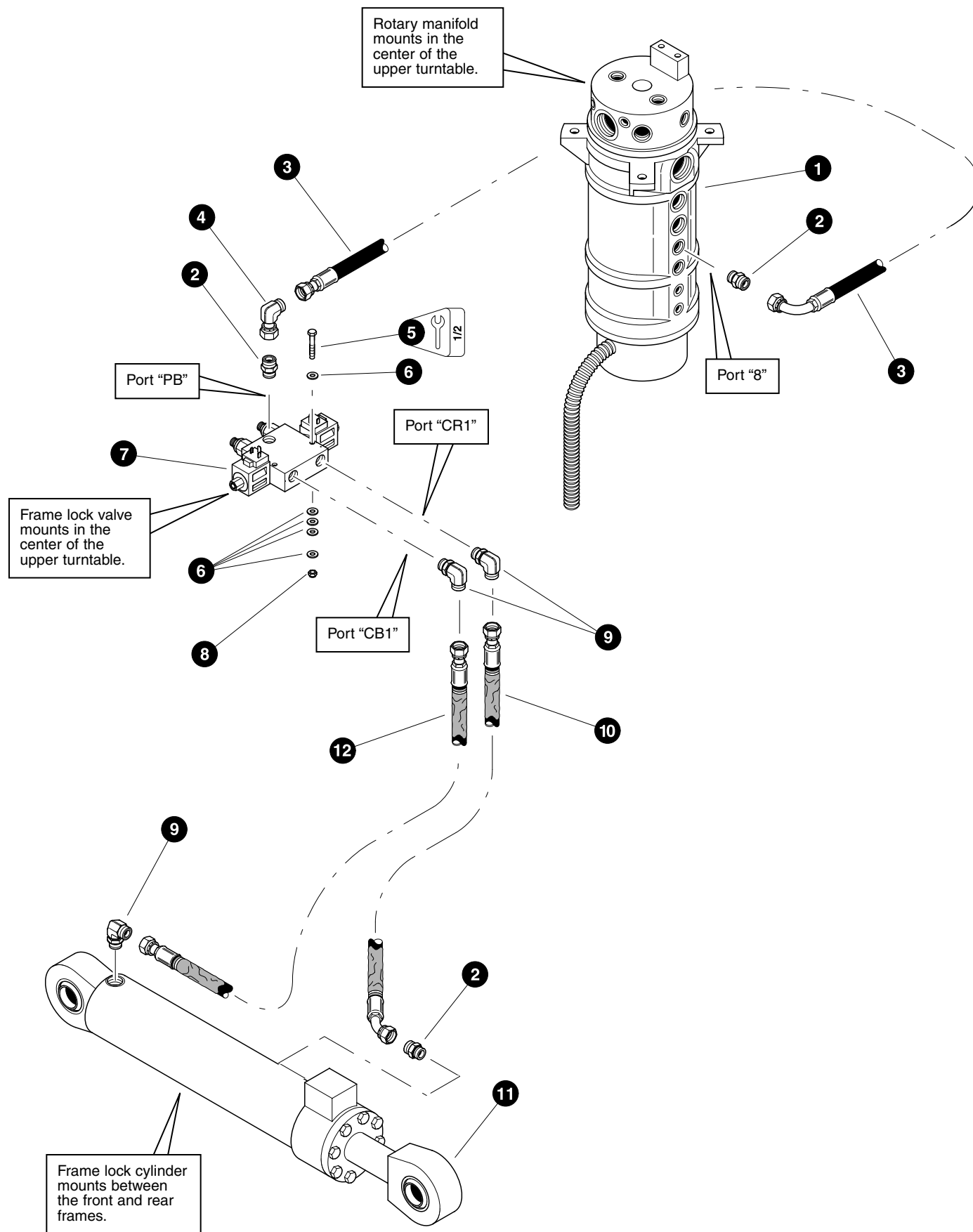


FRAME LOCK CYLINDER LINES

(From Main Control Valve To Upper Rotary Manifold)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	15238	1		CONNECTOR, straight - FF1852T-0812S	
3	20567	1		HOSE ASSEMBLY - 4055-08-080S-080S-W (<i>Main control valve port "T3" to rotary manifold upper port "8"</i>)	
4	15154	1		ELBOW, 90° - FF1868T-0810S	
5	REF.	1	✓	ROTARY MANIFOLD	D.2.2

✓ See referenced page for component or assembly breakdown.



Parts 00959 12/04/98
18.75

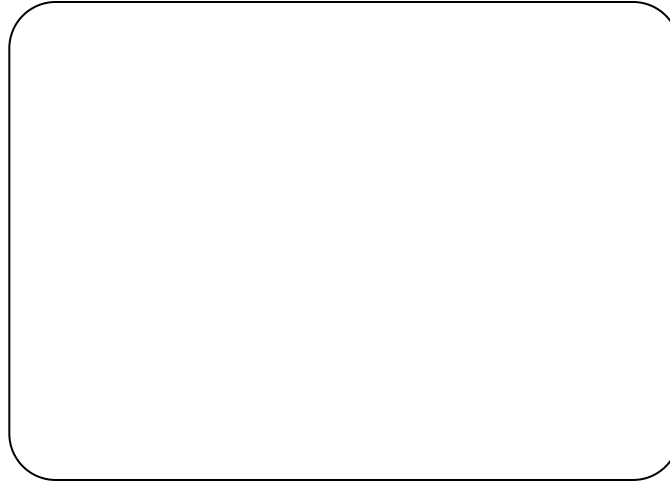
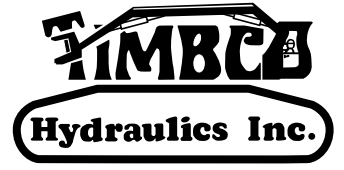
FRAME LOCK CYLINDER LINES

(From Lower Rotary Manifold To Frame Lock Cylinder)

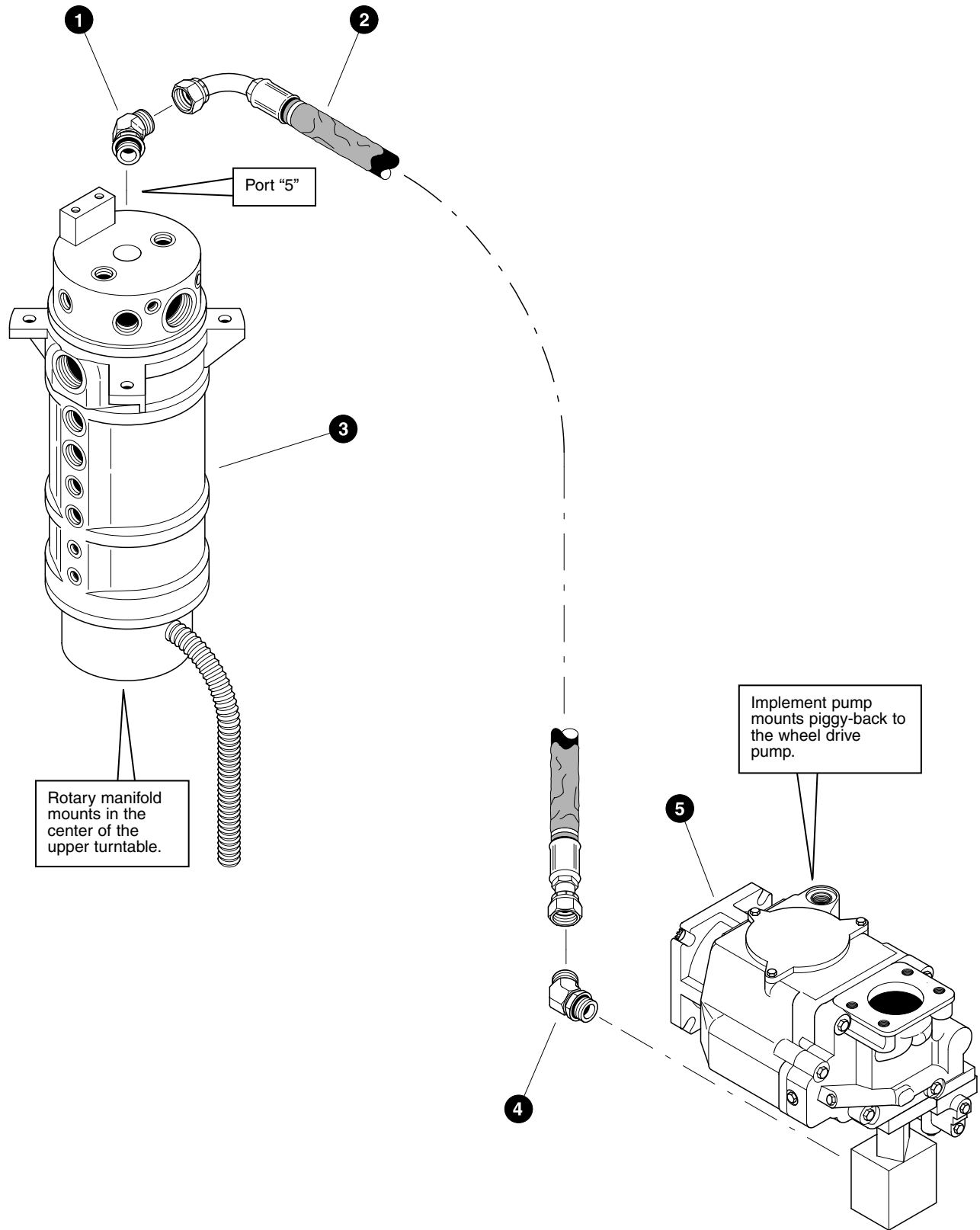
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	15117	3		CONNECTOR, straight - FF1852T-0808S	
3	20132	1		HOSE ASSEMBLY - 4034-08-080S-0809 (<i>Rotary manifold lower port "8" to frame lock valve port "PB"</i>)	
4	16297	1		ELBOW, 90° swivel - FF2098T-0808S	
5	10824	2		BOLT - 5/16" x 2-1/2"	
6	15559	10		WASHER, SAE flat - 5/16"	
7	REF.	1	✓	FRAME LOCK VALVE	D.3.10
8	10788	2		NUT, nylock - 5/16"	
9	16360	3		ELBOW, 90° - FF1868T-0808S	
10	20475	1		HOSE ASSEMBLY - 4086-08-080S-0804 (<i>Frame lock valve port "CR1" to frame lock cylinder rod port</i>)	
11	REF.	1	✓	FRAME LOCK CYLINDER	E.2.8
12	20136	1		HOSE ASSEMBLY - 4088-08-080S-080S (<i>Frame lock valve port "CB1" to frame lock cylinder base port</i>)	

✓ See referenced page for component or assembly breakdown.

Section B.4



Hydraulic Circuits - Optional Clam Bunk

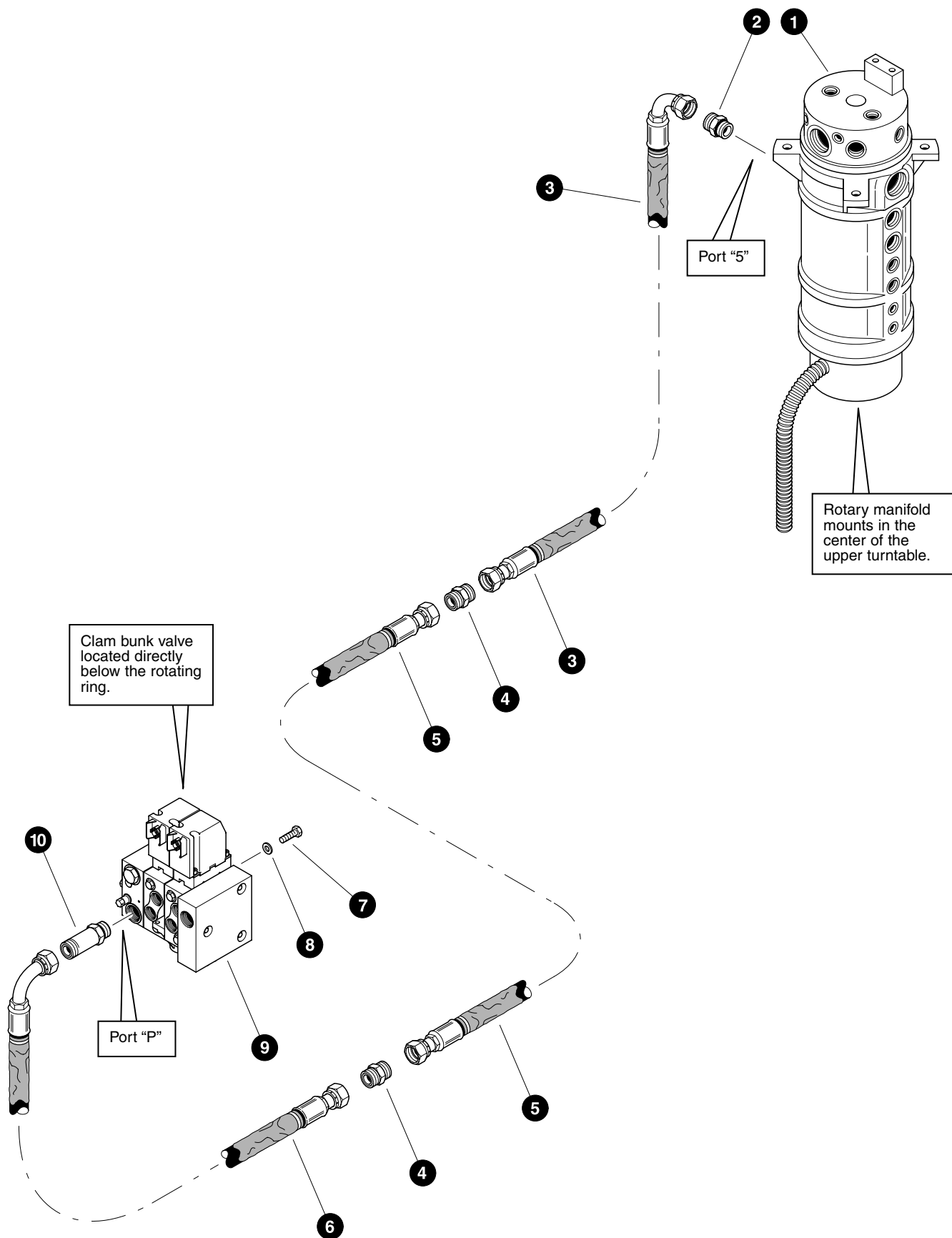


CLAM BUNK PRESSURE LINE

(Implement Pump To Upper Rotary Manifold)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19127	1		ELBOW, 45° - FF2068T-1212S	
2	20182	1		HOSE ASSEMBLY - 4063-12-120S-1209 (<i>Implement pump pressure manifold to rotary manifold upper port "5"</i>)	
3	REF.	1	✓	ROTARY MANIFOLD	D.2.2
4	19127	1		ELBOW, 45° - FF2068T-1212S	
5	REF.	1	✓	IMPLEMENT PUMP	C.2.2

✓ See referenced page for component or assembly breakdown.

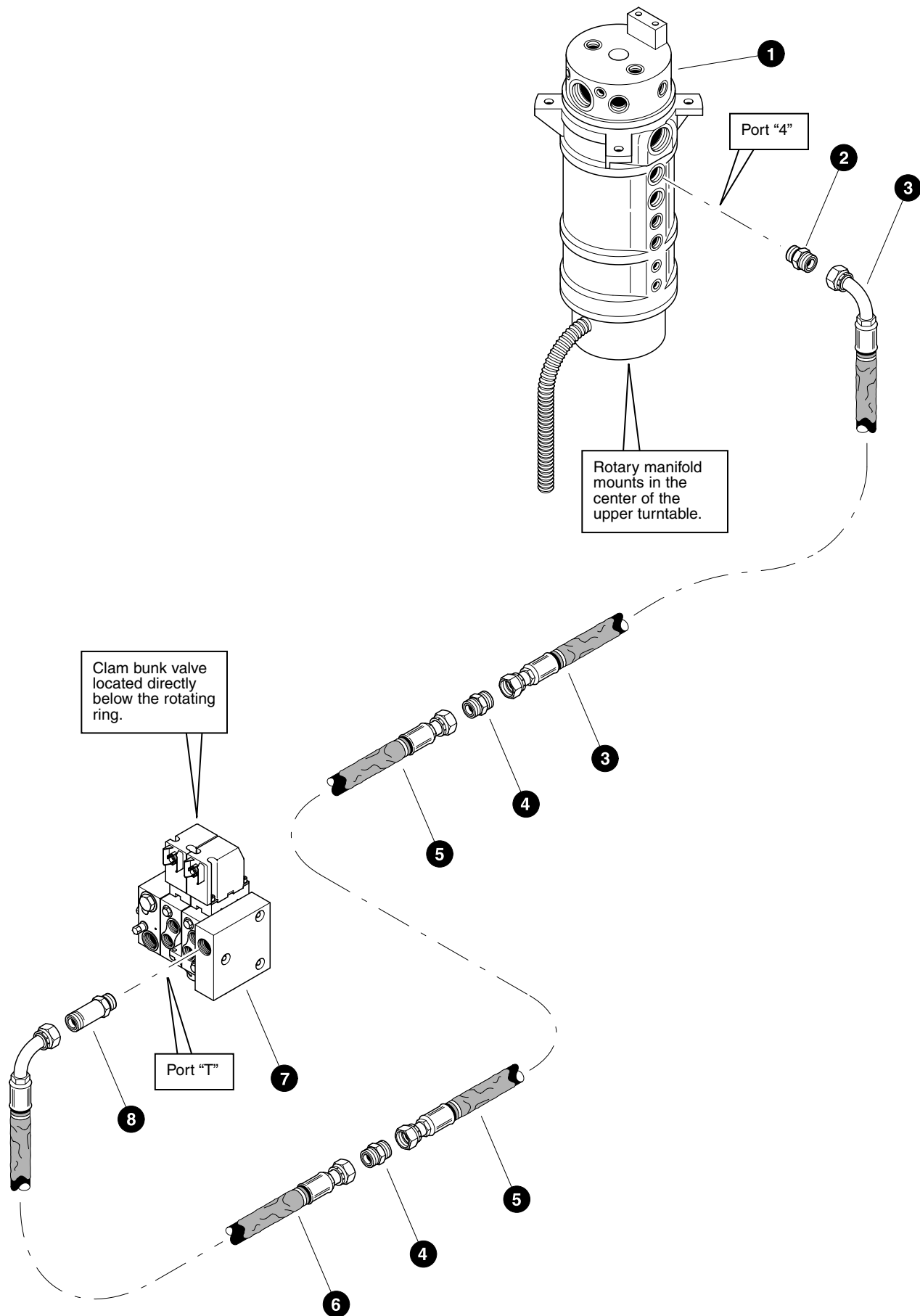


Parts 00963 12/04/98
18.75

CLAM BUNK PRESSURE LINE
(Lower Rotary Manifold To Clam Bunk Valve)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	15152	1		CONNECTOR, straight - FF1852T-1212S	
3	20189	1		HOSE ASSEMBLY - 4086.5-12-120S-1209 (<i>Rotary manifold lower port "5" to center frame union</i>)	
4	18084	2		CONNECTOR, straight - FF2000T-1212S	
5	20819	1		HOSE ASSEMBLY - 4085-12-120S-120S (<i>Center frame union to rear frame union</i>)	
6	20397	1		HOSE ASSEMBLY - 4067.5-12-120S-1209 (<i>Rear frame union to clam bunk valve port "P"</i>)	
7	10402	2		BOLT - 3/8" x 1-1/4"	
8	15528	2		WASHER, SAE flat - 3/8"	
9	REF.	1	✓	CLAM BUNK VALVE	Blue B
10	19092	1		CONNECTOR, straight long - FF1854T-1212S	

✓ See referenced page for component or assembly breakdown.



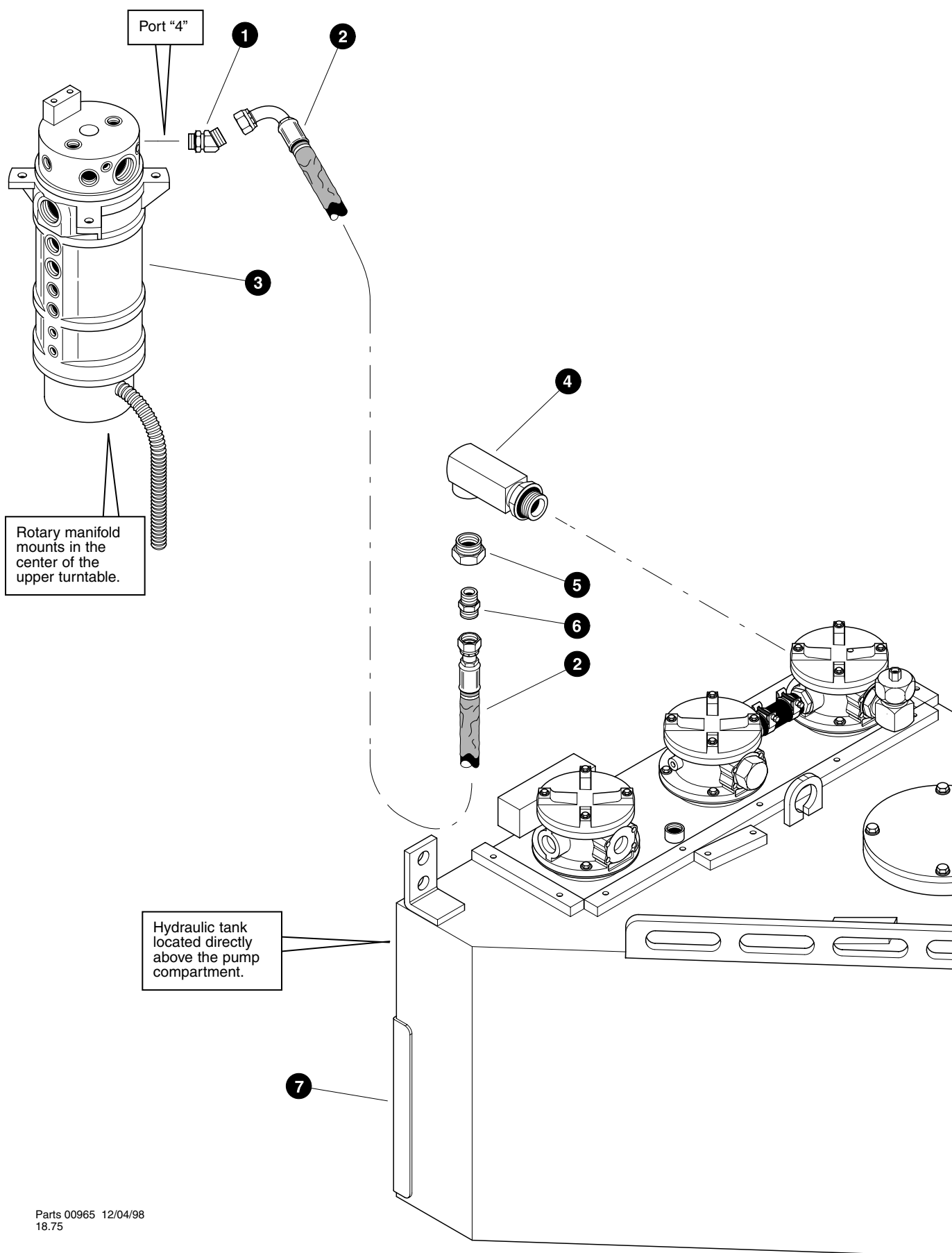
Parts 00964 12/04/98
18.75

CLAM BUNK RETURN LINE

(Clam Bunk Valve To Lower Rotary Manifold)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	15152	1		CONNECTOR, straight - FF1852T-1212S	
3	20184	1		HOSE ASSEMBLY - 4087.5-12-120S-1209 (<i>Rotary manifold lower port "4" to center frame union</i>)	
4	18084	2		CONNECTOR, straight - FF2000T-1212S	
5	20819	1		HOSE ASSEMBLY - 4085-12-120S-120S (<i>Center frame union to rear frame union</i>)	
6	20398	1		HOSE ASSEMBLY - 4064.5-12-120S-1209 (<i>Rear frame union to clam bunk valve port "T"</i>)	
7	REF.	1	✓	CLAM BUNK VALVE	Blue B
8	19092	1		CONNECTOR, straight long - FF1854T-1212S	

✓ See referenced page for component or assembly breakdown.

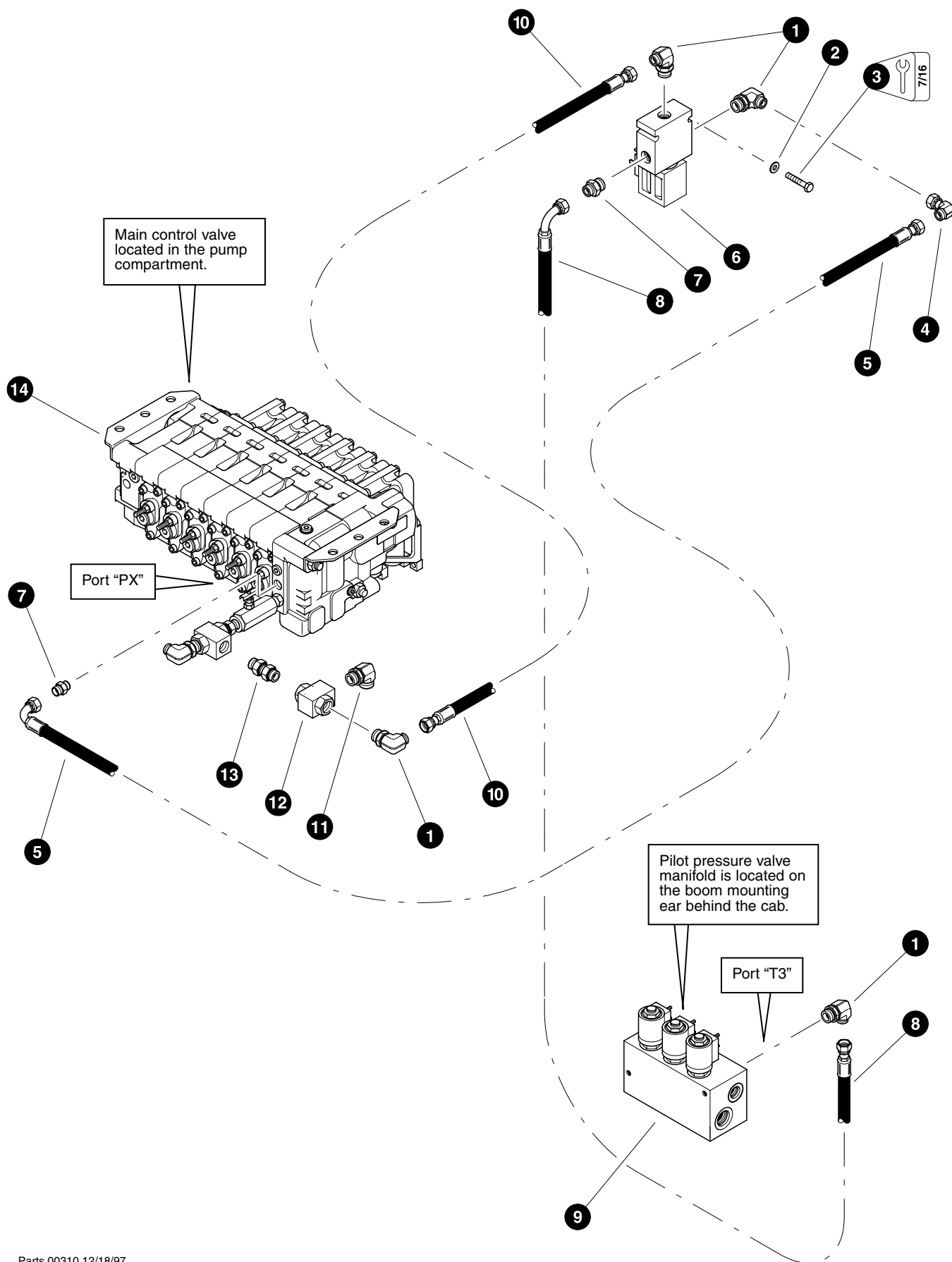


Parts 00965 12/04/98
18.75

CLAM BUNK RETURN LINE (Upper Rotary Manifold To Tank)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19127	1		ELBOW, 45° - FF2068T-1212S	
2	20396	1		HOSE ASSEMBLY - 4072-12-120S-1209-W (<i>Rotary manifold upper port "4" to cab-side return filter</i>)	
3	REF.	1	✓	ROTARY MANIFOLD	D.2.2
4	18743	1		ELBOW, 90° - 2725-FSO-2420	
5	16325	1		BUSHING, black reducer - 1-1/4" x 3/4"	
6	15201	1		CONNECTOR, straight - FF2031T-1212S	
7	REF.	1	✓	HYDRAULIC TANK	E.1.2

✓ See referenced page for component or assembly breakdown.

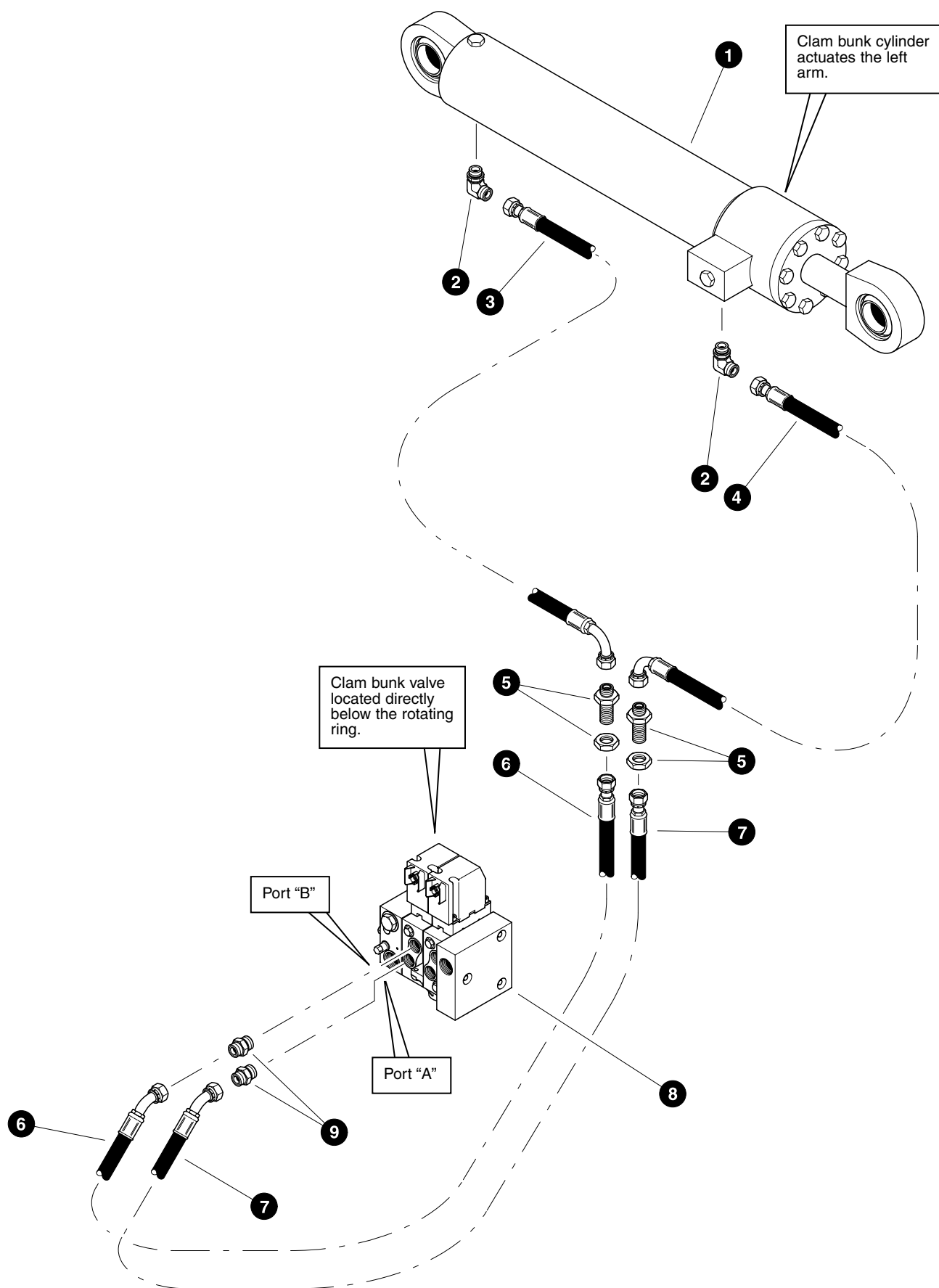


Parts 00310 12/18/97
25.00

CLAM BUNK LOAD SENSE LINES

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15133	4		ELBOW, 90° - FF1868T-0406S	
2	10757	2		WASHER, SAE flat - 1/4"	
3	15575	2		BOLT - 1/4" x 1-1/2"	
4	15145	1		ELBOW, 90° swivel - FF2098T-0404S	
5	20194	1		HOSE ASSEMBLY - 2017.5-04-040S-0409 (<i>Main control valve port "PX" to 3-way valve</i>)	
6	19300	1		VALVE, 3-way	
7	15124	2		CONNECTOR, straight - FF1852T-0406S	
8	15380	1		HOSE ASSEMBLY - 2060-04-040S-0409 (<i>3-way valve to pilot pressure manifold port "T3"</i>)	
9	REF.	1	✓	PILOT PRESSURE MANIFOLD	D.1.4
10	15369	1		HOSE ASSEMBLY - 2012-04-040S-0409 (<i>3-way valve to load sense shuttle</i>)	
11	16296	1		ELBOW, 90° - FF1868T-0606S (<i>New connection point for load sense line to the implement pump</i>)	
12	19303	1		VALVE, shuttle - load sense	
13	19366	1		CONNECTOR, straight - 6403-NWO-6	
14	REF.	1	✓	MAIN CONTROL VALVE	Blue B

✓ See referenced page for component or assembly breakdown.



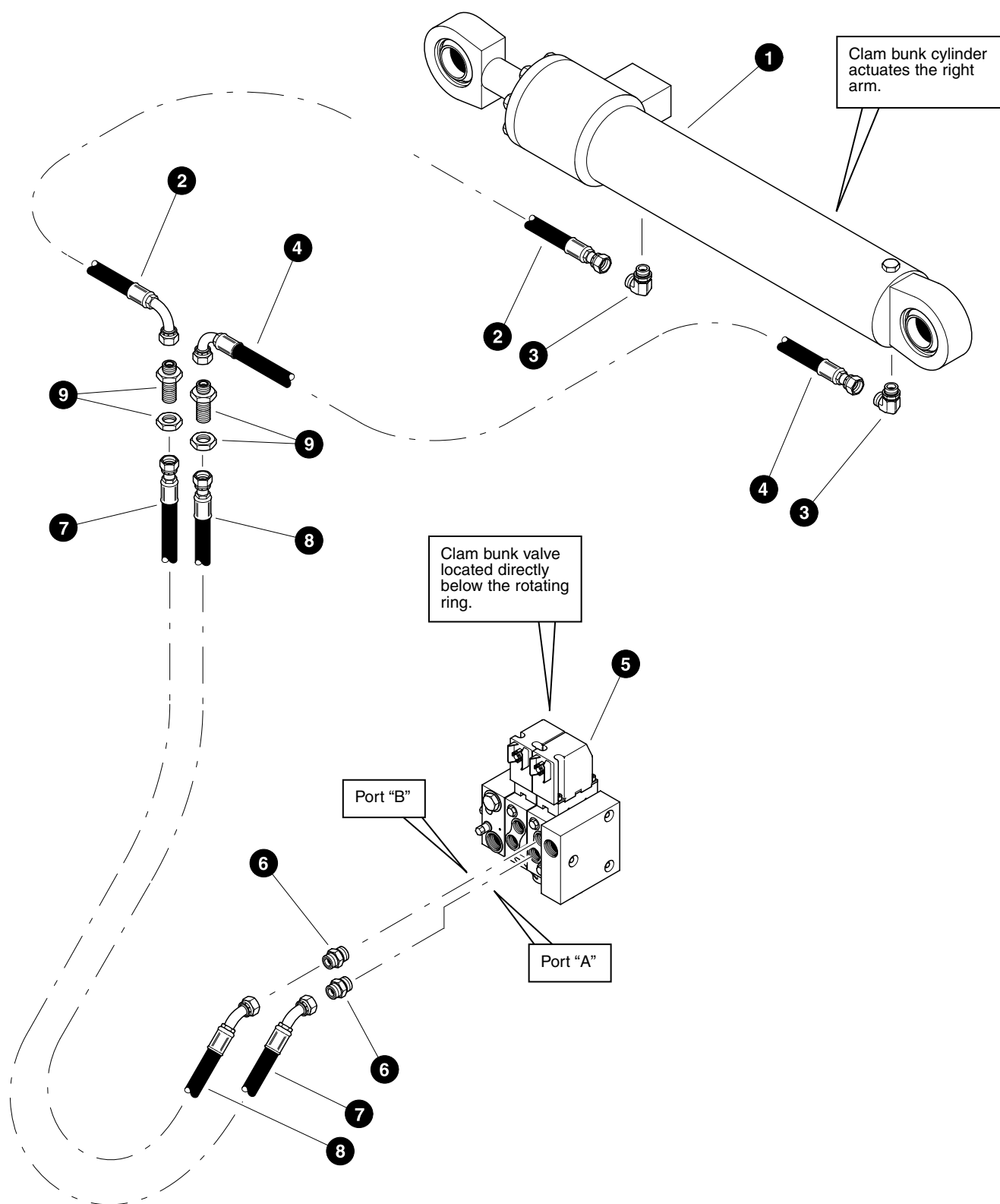
Parts 00363 12/18/97
18.75

CLAM BUNK ARM LINES

(Clam Bunk Valve To Left Clam Bunk Cylinder)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	CLAM BUNK CYLINDER	E.2.10
2	16360	2		ELBOW, 90° - FF1868T-0808S	
3	17483	1		HOSE ASSEMBLY - 4019-08-080S-0809 (<i>Clam bunk cylinder base port to left front bulkhead fitting</i>)	
4	20195	1		HOSE ASSEMBLY - 4031-08-080S-0809 (<i>Clam bunk cylinder rod port to right front bulkhead fitting</i>)	
5	20196	2		CONNECTOR, straight bulkhead - FF1994T-0808S	
6	20113	1		HOSE ASSEMBLY - 4047-08-080S-0804 (<i>Clam bunk left valve section port "B" to left front bulkhead fitting</i>)	
7	20198	1		HOSE ASSEMBLY - 4045-08-080S-0804 (<i>Clam bunk left valve section port "A" to right front bulkhead fitting</i>)	
8	REF.	1	✓	CLAM BUNK VALVE	Blue B
9	15115	2		CONNECTOR, straight - FF1852T-0810S	

✓ See referenced page for component or assembly breakdown.



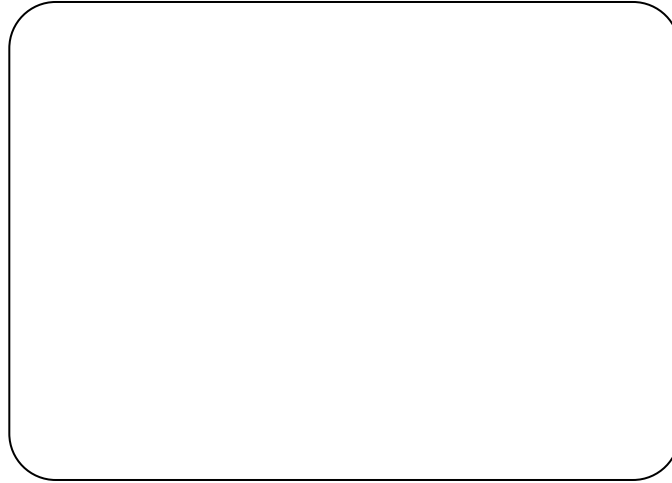
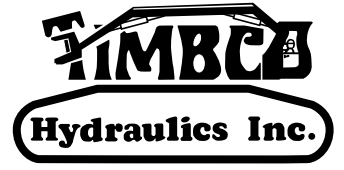
Parts 00364 12/18/97
18.75

CLAM BUNK ARM LINES
(Clam Bunk Valve To Right Clam Bunk Cylinder)

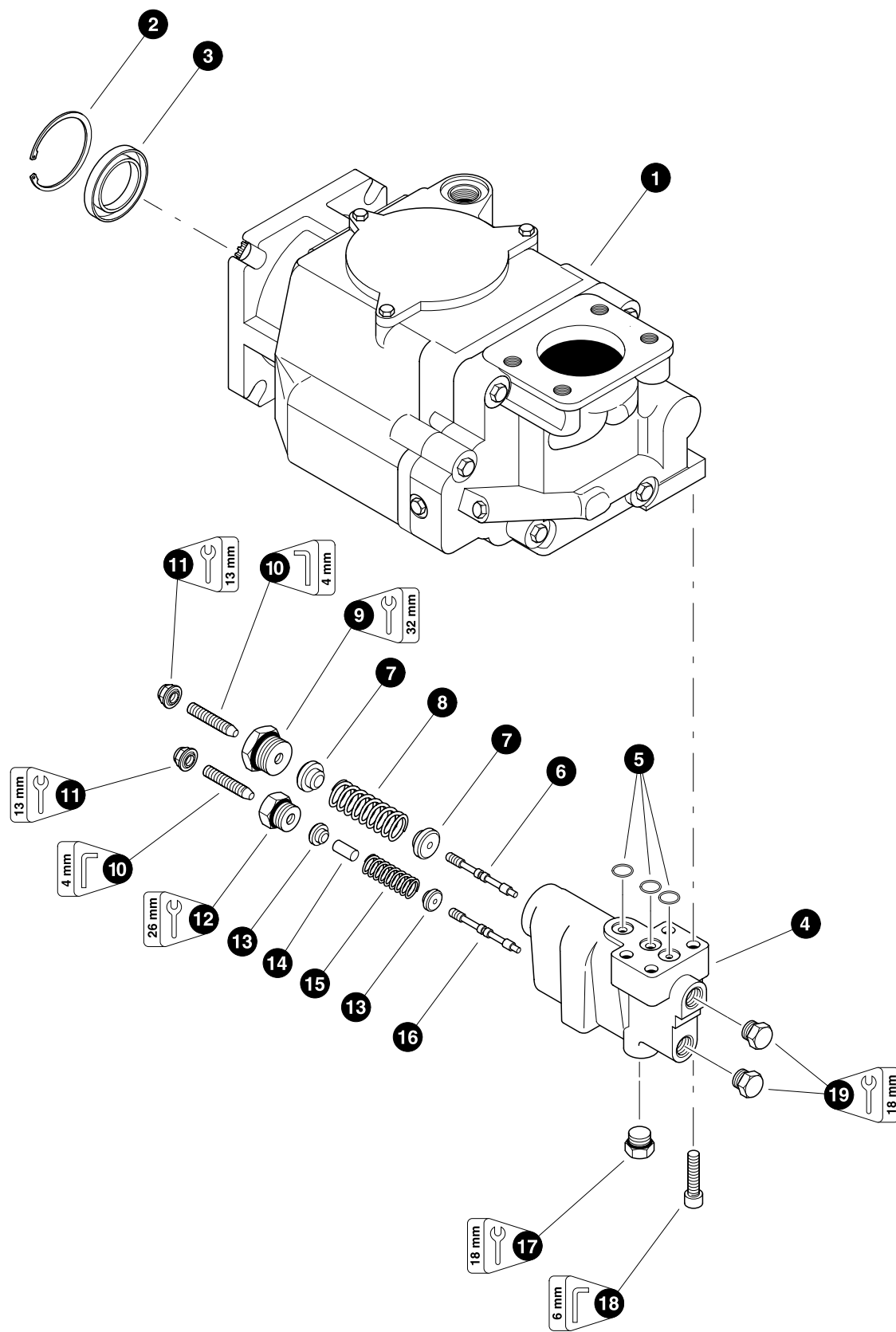
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	CLAM BUNK CYLINDER	E.2.10
2	16360	2		ELBOW, 90° - FF1868T-0808S	
3	20195	1		HOSE ASSEMBLY - 4031-08-080S-0809 (<i>Clam bunk cylinder rod port to left rear bulkhead fitting</i>)	
4	17483	1		HOSE ASSEMBLY - 4019-08-080S-0809 (<i>Clam bunk cylinder base port to right rear bulkhead fitting</i>)	
5	REF.	1	✓	CLAM BUNK VALVE	Blue B
6	15115	2		CONNECTOR, straight - FF1852T-0810S	
7	20199	1		HOSE ASSEMBLY - 4046-08-080S-0804 (<i>Clam bunk right valve section port "A" to left rear bulkhead fitting</i>)	
8	20201	1		HOSE ASSEMBLY - 4048-08-080S-0804 (<i>Clam bunk right valve section port "B" to right rear bulkhead fitting</i>)	
9	20196	2		CONNECTOR, straight bulkhead - FF1994T-0808S	

✓ See referenced page for component or assembly breakdown.

Section C.2



Hydraulic Pumps & Motors - Loader Implements



Parts 00393 01/22/98
37.50

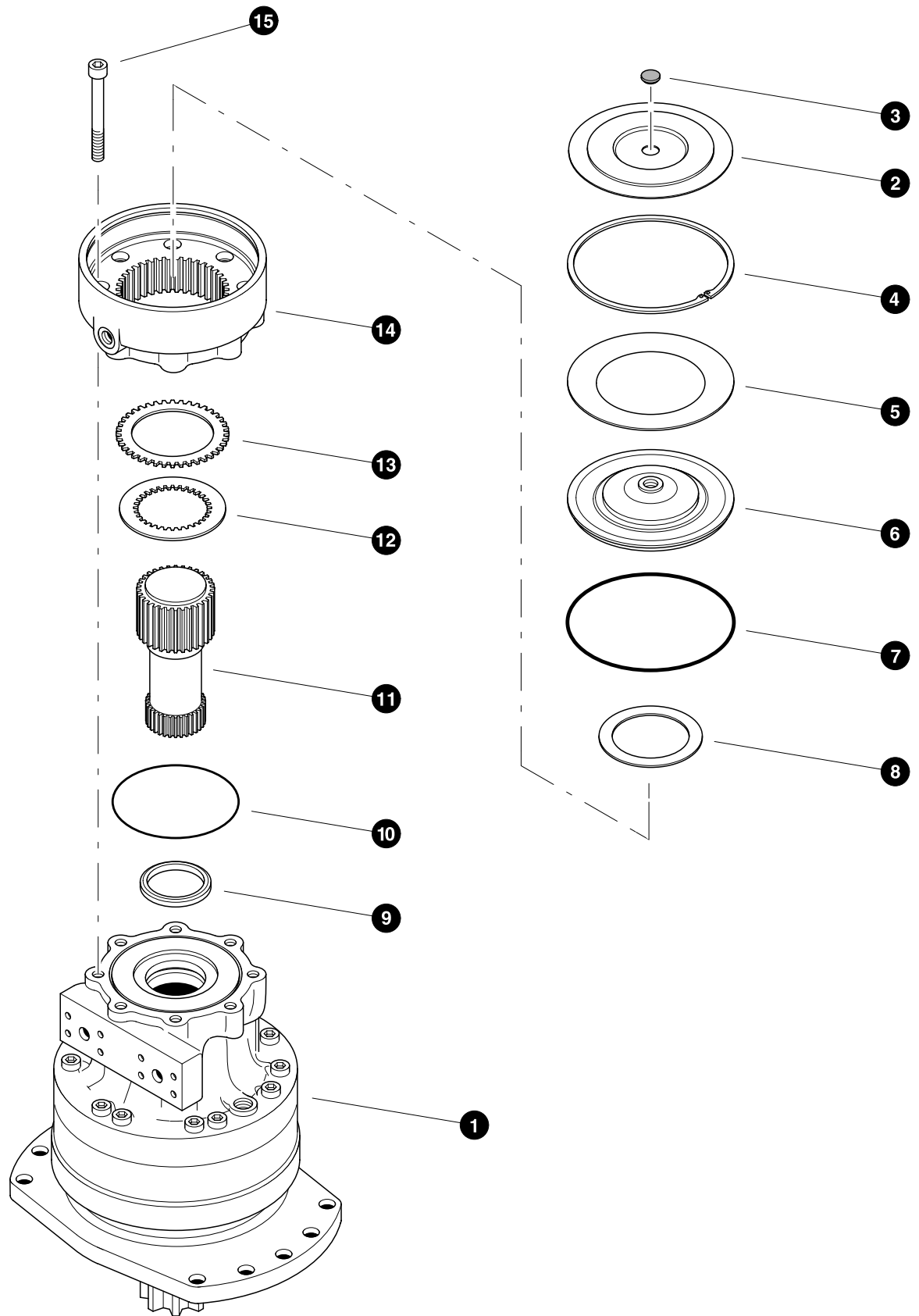
LOADER IMPLEMENT PUMP (Vickers PVH98)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	18748	1	☐	PUMP, loader implement - Vickers PVH98	
2	17319	1		RING, retaining	
3	15870	1	★	SEAL, shaft	
4	17082	1	☐	COMPENSATOR	
5	17189	3	★	O-RING (<i>white</i>)	
6	18197	1		SPOOL, pressure limiter	
7	18201	2		GUIDE, spring	
8	18200	1		SPRING, control	
9	18195	1	☐	PLUG	
	18193	1	★	O-RING	
10	17599	2		SCREW, adjustment	
11	17600	2		NUT, seal	
12	18194	1	☐	PLUG	
	18192	1	★	O-RING	
13	20305	2		GUIDE, spring	
14	18199	1		PIN	
15	20306	1		SPRING, load	
16	18198	1		SPOOL, load sense	
17	20307	1	☐	PLUG	
	20308	1	★	O-RING	
18	17309	4		BOLT, compensator mounting	
19	20309	2	☐	PLUG	
	20308	1	★	O-RING	
--	17004	1		KIT, seal repair (<i>Complete pump</i>)	

- ☐ Kit or Assembly - includes all items indented underneath.
 ★ Included in seal repair kit, PN# 17004.

Note:

Due to warranty policy restrictions imposed by Timbco's component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.



Parts 00480 11/18/98
12.50

SWING MOTOR w/BRAKE (Poclain)

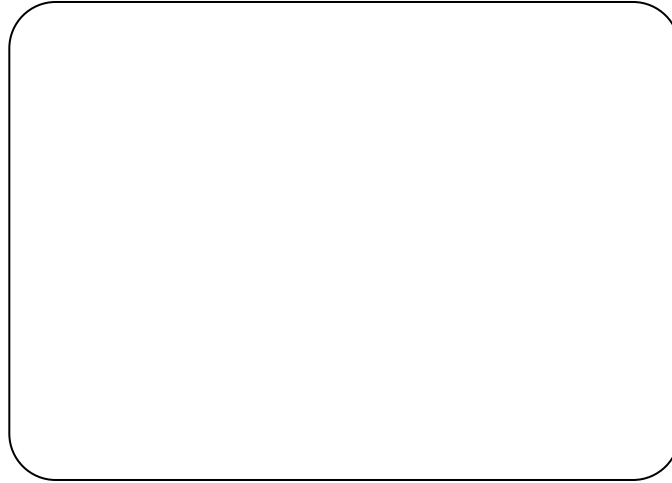
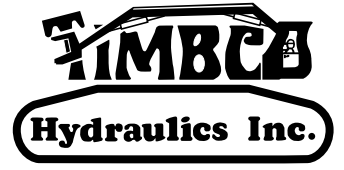
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19201	1	□	MOTOR, swing - Poclain	
2	18557	1		COVER, brake piston	
3	20759	1		GROMMET	
4	20781	1		RING, snap	
5	20782	1		WASHER, bevel	
6	20783	1	Ⓒ	PISTON, brake <i>(Requires special tool for removal)</i>	
7	17781	1		O-RING, brake piston	
8	20784	AR		SHIM KIT, brake disc	
9	17780	1		SEAL, shaft	
10	20785	1		O-RING, brake housing	
11	20786	1		SHAFT, brake	
12	NSS	11	★	DISC, brake - internal tooth	
13	NSS	12	★	DISC, brake - external tooth	
14	NSS	1		HOUSING, brake	
15	20787	8		BOLT, allen head	
-	20788	1		KIT, repair - brake disc	

- Kit or Assembly - includes all items indented underneath.
- Ⓒ Contact your TIMBCO dealer for additional information.
- ★ Included in disc brake kit PN# 20788.

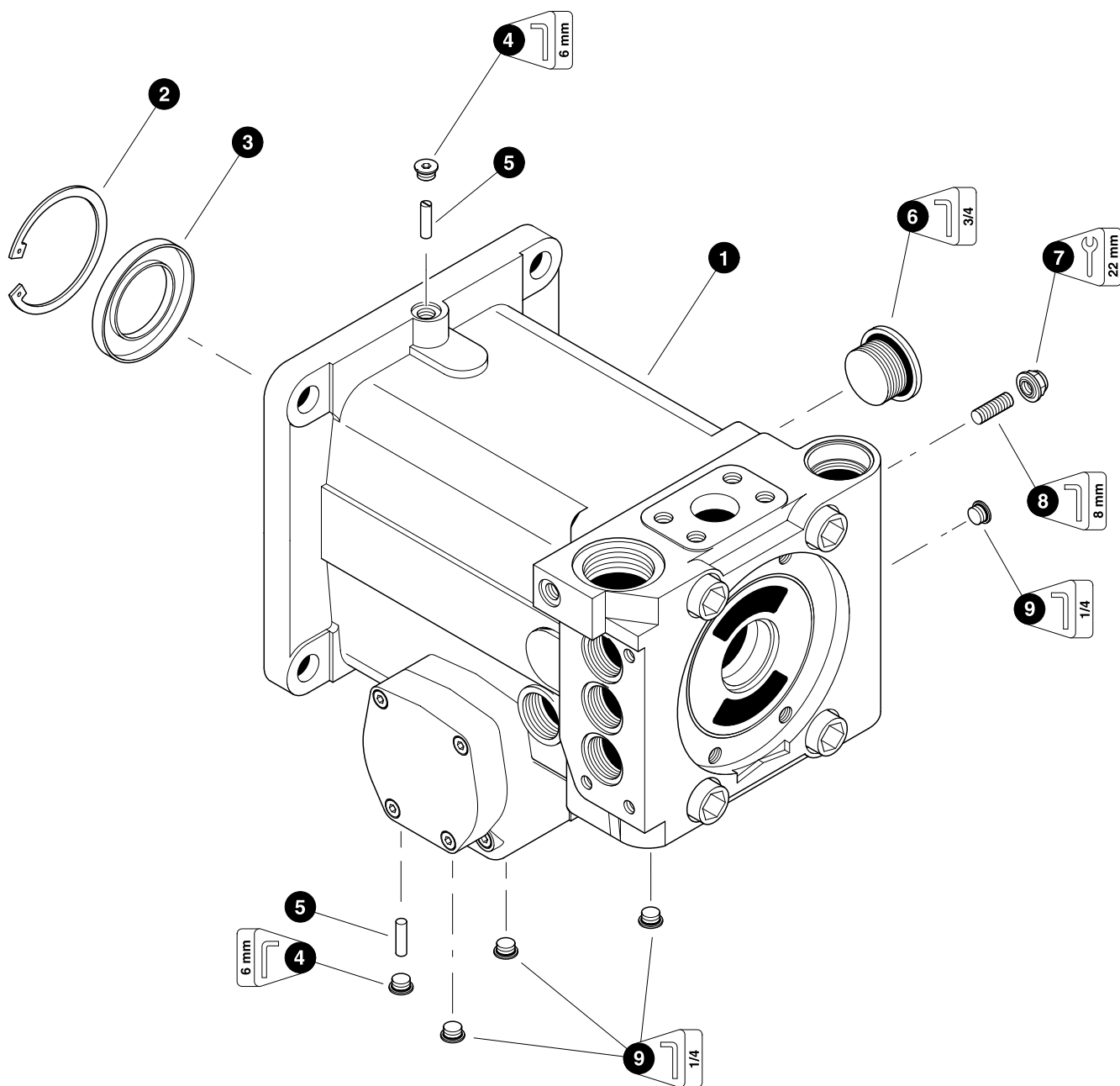
Note:

Due to warranty policy restrictions imposed by Timbco's component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.

Section C.3



Hydraulic Pumps & Motors - Wheel Drive



Parts 00412 01/30/98
37.50

WHEEL DRIVE PUMP - REXROTH AA4VG180 (Forward Cast Housing Components)

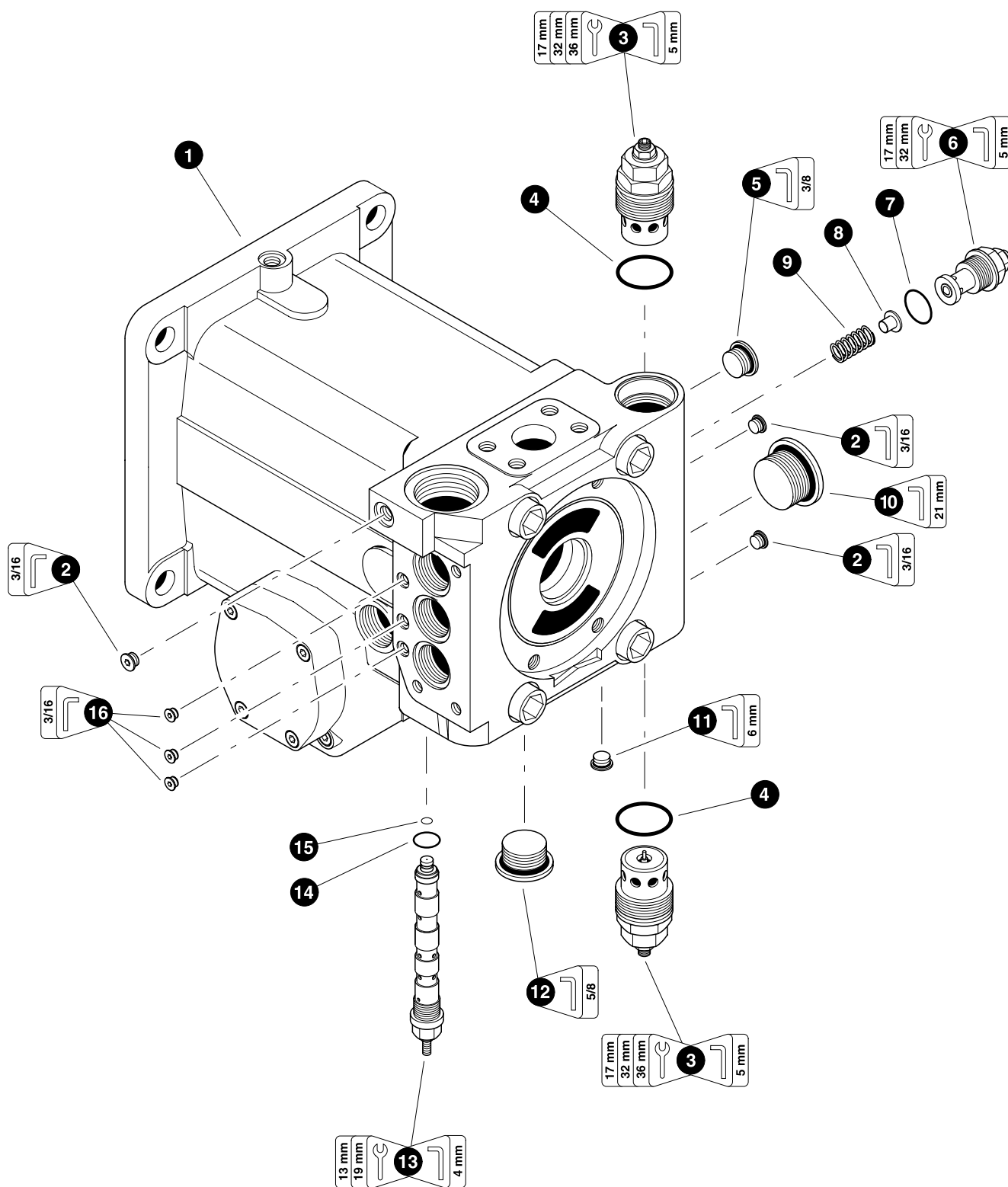
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20429	1	☐	PUMP, wheel drive - AA4VG180	
2	20430	1		RING, snap	
3	20431	1	★	SEAL, shaft	
4	20317	2	★	PLUG - 12mm-1.5P	
5	20433	2		PIN, cradle	
6	18950	1	☐	PLUG - 6408-HHP-20	
	20325	1	★	O-RING, ORB - #16	
7	20434	1	★	NUT, seal - 14mm-1.5P	
8	20435	1		PIN, threaded - 12mm-1.5P	
9	15412	4	☐	PLUG - 6408-HHP-6	
	20320	1	★	O-RING, ORB - #6	
-	20328	1		KIT, seal repair - complete AA4VG180 pump	

- ☐ Kit or Assembly - includes all items indented underneath.
 ★ Included in seal repair kit Part # 20328.

Note:

Due to warranty policy restrictions imposed by Timbco's component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.

See Page C.3.14 for rear port block components.
 See Page C.3.16 for stroke control assembly
 See Page C.3.18 for charge pump & thru drive components.
 See Page C.3.20 for filtration components.



Parts 00413 01/30/98
37.50

WHEEL DRIVE PUMP - REXROTH AA4VG180 (Rear Port Block Components)

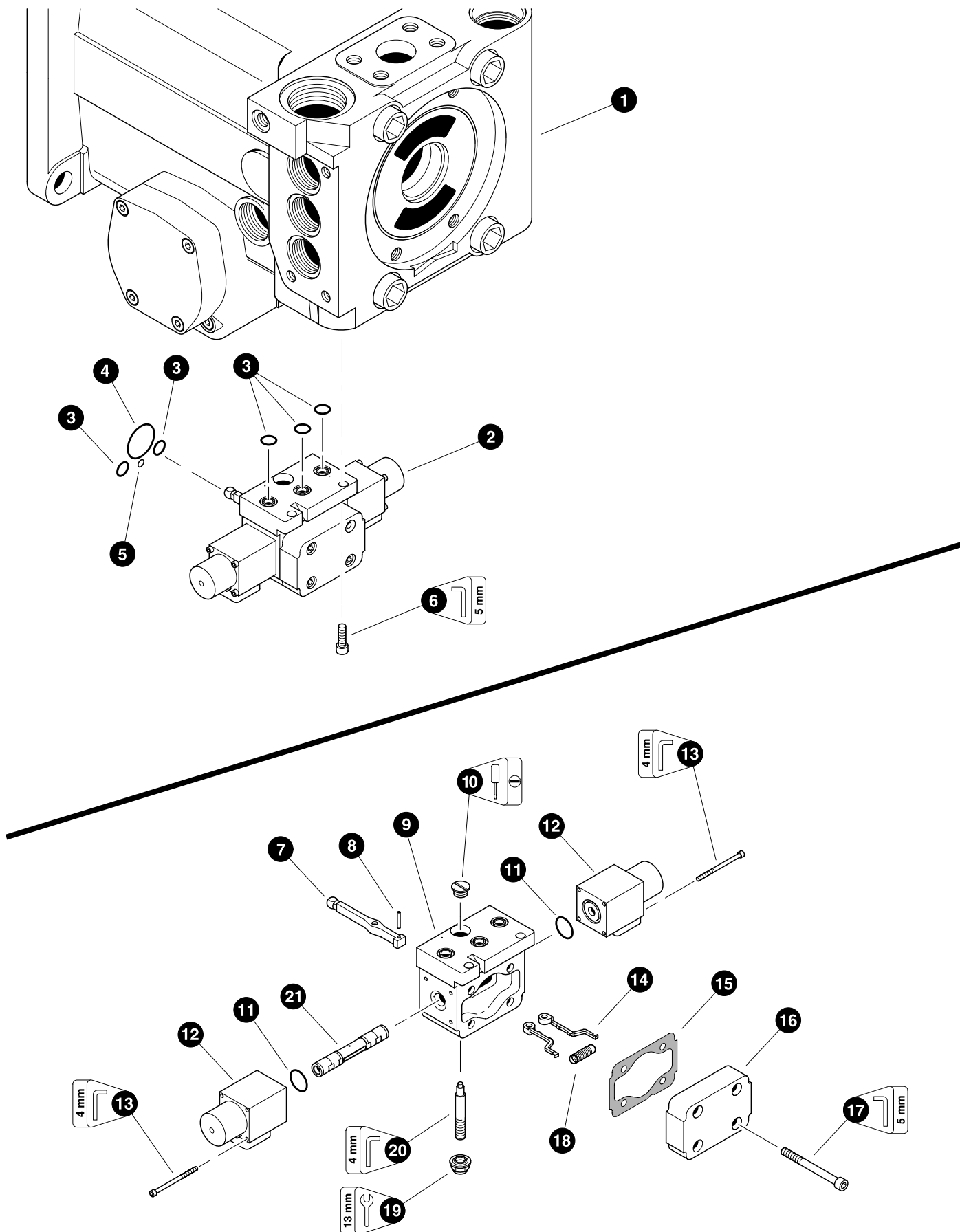
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20429	1	☐	PUMP, wheel drive - AA4VG180	
2	11383	3	☐	PLUG - 6408-HHP-4	
	20319	1	★	O-RING, ORB - #4	
3	20330	2	☐	CARTRIDGE, high pressure relief valve	
	20331	1	★	NUT, seal - 10mm-1.0P	
4	20332	1	★	O-RING, HPRV cartridge	
5	19271	2	☐	PLUG - 6408-HHP-10	
	20322	1	★	O-RING, ORB - #10	
6	20436	1	☐	CARTRIDGE, charge pressure relief valve	
7	20437	1	★	O-RING, charge pressure relief valve	
8	NSS	1		GUIDE, spring	
9	NSS	1		SPRING	
10	20333	1	☐	PLUG - 42mm-2.0P	
	20334	1	★	O-RING, ORB - 42mm-2.0P	
11	20317	1	★	PLUG - 12mm-1.5P	
12	19847	1	☐	PLUG - 6408-HHP-16	
	20324	1	★	O-RING, ORB - #16	
13	20254	1	☐	CARTRIDGE, POR relief valve	
14	20337	1	★	O-RING, POR relief valve - body	
15	20338	1	★	O-RING, POR relief valve - chamber	
16	20339	4	★	PLUG - 8mm-1.0P	
-	20328	1		KIT, seal repair - complete AA4VG180 pump	

- ☐ Kit or Assembly - includes all items indented underneath.
 ★ Included in seal repair kit Part # 20328.

Note:

Due to warranty policy restrictions imposed by Timbco's component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.

See Page C.3.12 for forward cast housing components.
 See Page C.3.16 for stroke control assembly.
 See Page C.3.18 for charge pump & thru drive components.
 See Page C.3.20 for filtration components.



Parts 00415 01/30/98
37.50

WHEEL DRIVE PUMP - REXROTH AA4VG180 (Stroke Control Assembly - Electronic)

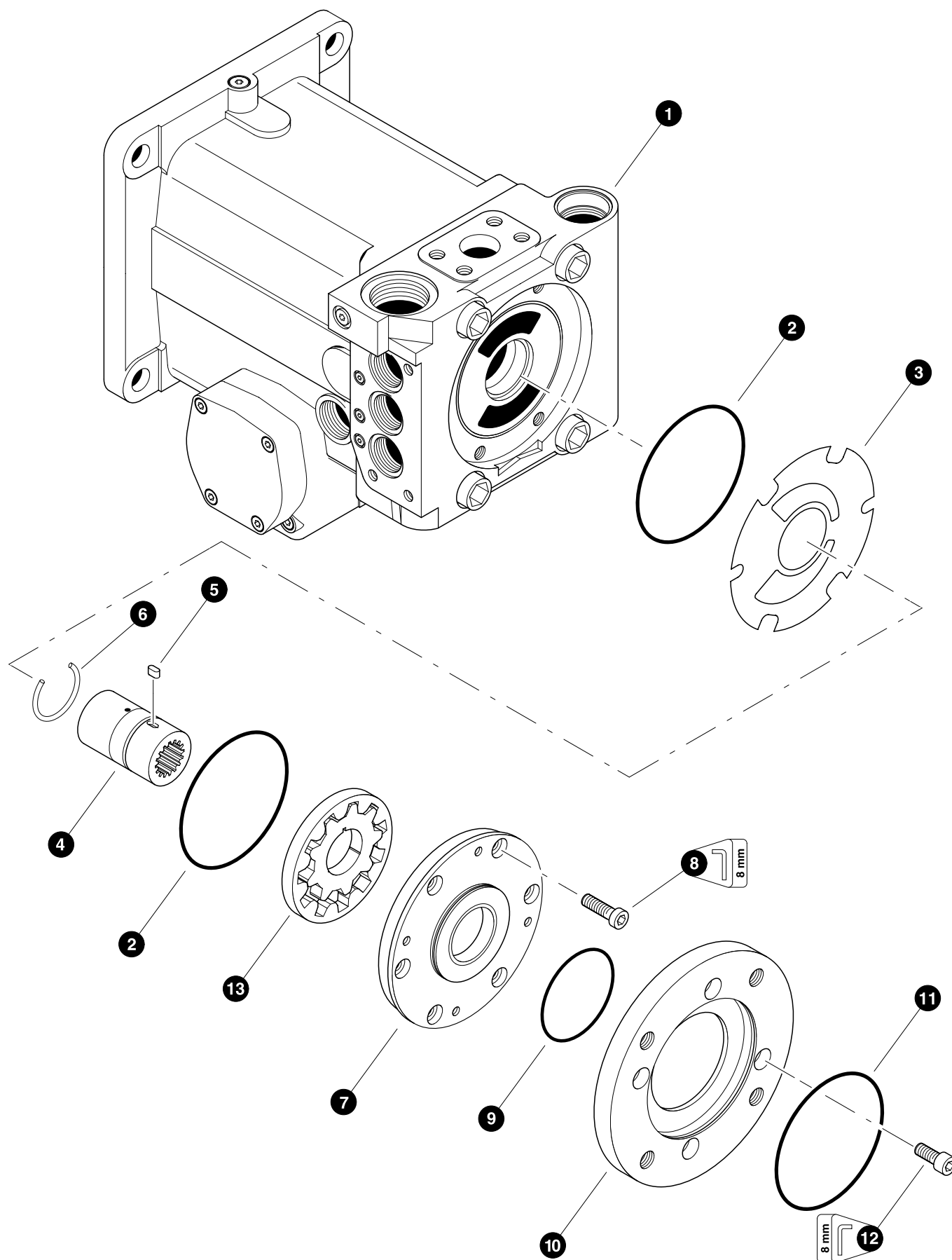
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	WHEEL DRIVE PUMP - Rexroth AA4VG180	C.3.12
2	20341	1	□	VALVE, stroke control - 12V	
	20360	1	□	VALVE, stroke control - 24V	
3	20342	5	★	O-RING, stroke control	
4	20343	1	★	O-RING, stroke control	
5	20344	1	★	O-RING, stroke control	
6	20345	2		BOLT, allen head - 6mm x 20mm	
7	20346	1		LEVER, feedback	
8	20347	1		PIN, feedback lever	
9	NSS	1		BODY, valve	
10	20348	1		PLUG, retaining	
11	20350	2	★	O-RING, stroke control end cover	
12	20361	2		COIL, solenoid - 12V	
	20362	2		COIL, solenoid - 24V	
13	20363	8		BOLT, allen head - 4mm x 50mm	
14	20354	2		ARM, lever	
15	17790	1	★	GASKET	
16	20355	1		COVER	
17	20356	8		BOLT, allen head - 6mm x 65mm	
18	20364	1		SPRING, feedback	
19	20358	1	★	NUT, seal - 8mm	
20	20359	1		SCREW, eccentric	
21	NSS	1		SPOOL	
-	20328	1		KIT, seal repair - complete AA4VG180 pump	

- ✓ See referenced page for component breakdown.
- Kit or Assembly - includes all items indented underneath.
- ★ Included in seal repair kit Part # 20328.

Note:

Due to warranty policy restrictions imposed by Timbco's component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.

See Page C.3.12 for forward cast housing components.
 See Page C.3.14 for rear port block components.
 See Page C.3.18 for charge pump & thru drive components.
 See Page C.3.20 for filtration components.



Parts 00416 10/22/99
37.50

WHEEL DRIVE PUMP - REXROTH AA4VG180 (Charge Pump & Thru Drive Components)

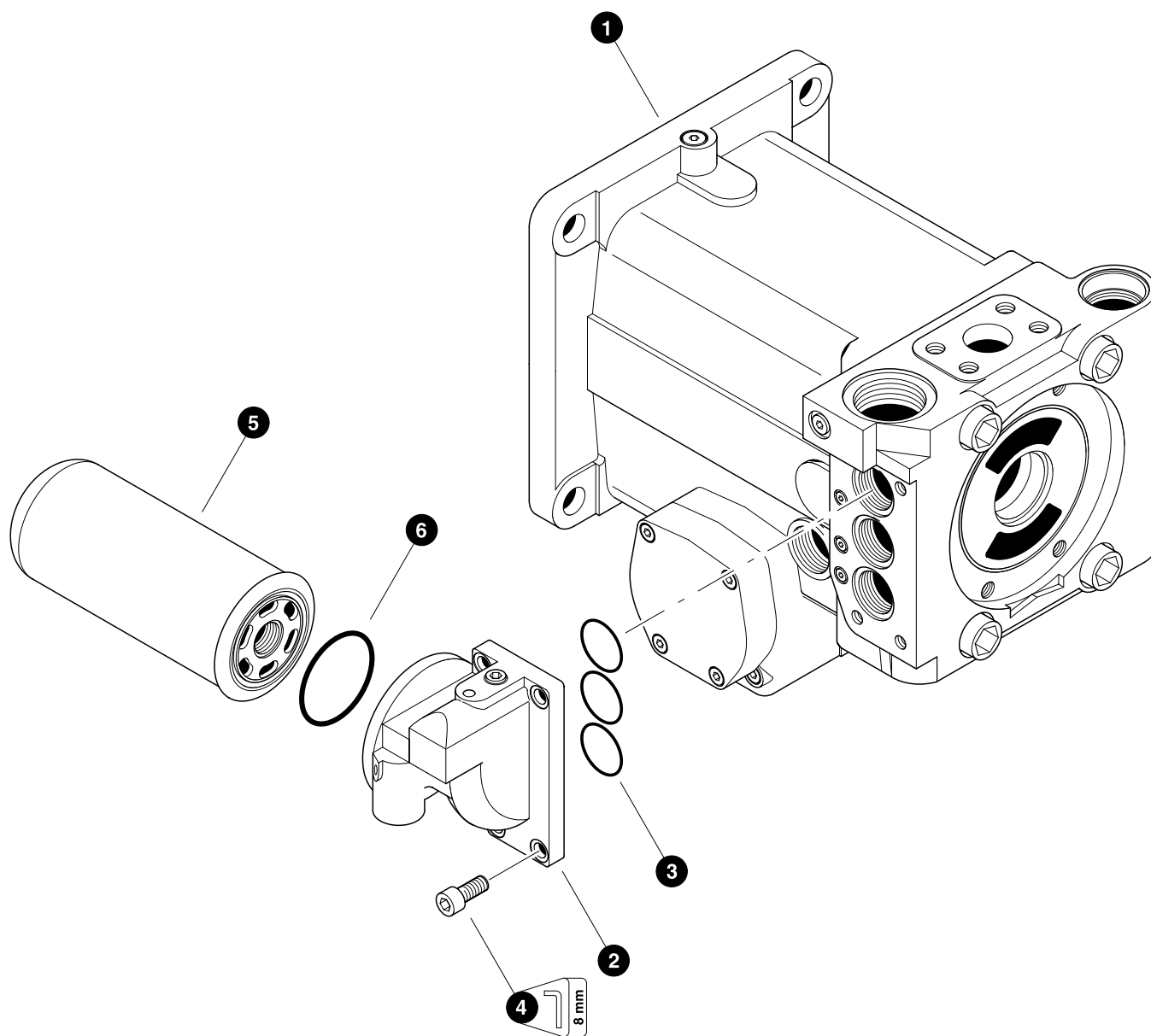
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	WHEEL DRIVE PUMP - Rexroth AA4VG180	C.3.12
-	20438	1	□	CHARGE PUMP ASSEMBLY (<i>w/thru drive</i>)	
2	20368	2	★	O-RING, thru drive wear plate	
3	20369	1		PLATE, wear - charge pump	
4	20439	1		COUPLING, thru drive	
5	20440	1		KEY	
6	20372	1		RING, retaining	
7	NSS	1		HOUSING, gear	
8	20441	6		BOLT, allen head - 10mm	
9	20442	1	★	O-RING, gear housing pilot	
10	20443	1		FLANGE, thru drive	
11	19491	1	★	O-RING, thru drive pilot (<i>SAE "C"</i>)	
12	20444	4		BOLT, allen head - 12mm-1.75P x 45mm	
13	NSS	1		ASSEMBLY, gear	
-	20328	1		KIT, seal repair - complete AA4VG180 pump	

- ✓ See referenced page for component breakdown.
- Kit or Assembly - includes all items indented underneath.
- ★ Included in seal repair kit Part # 20328.

Note:

Due to warranty policy restrictions imposed by Timbco's component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.

See Page C.3.12 for forward cast housing components.
 See Page C.3.14 for rear port block components.
 See Page C.3.16 for stroke control assembly.
 See Page C.3.20 for filtration components.



WHEEL DRIVE PUMP - REXROTH AA4VG180 (Filtration Components)

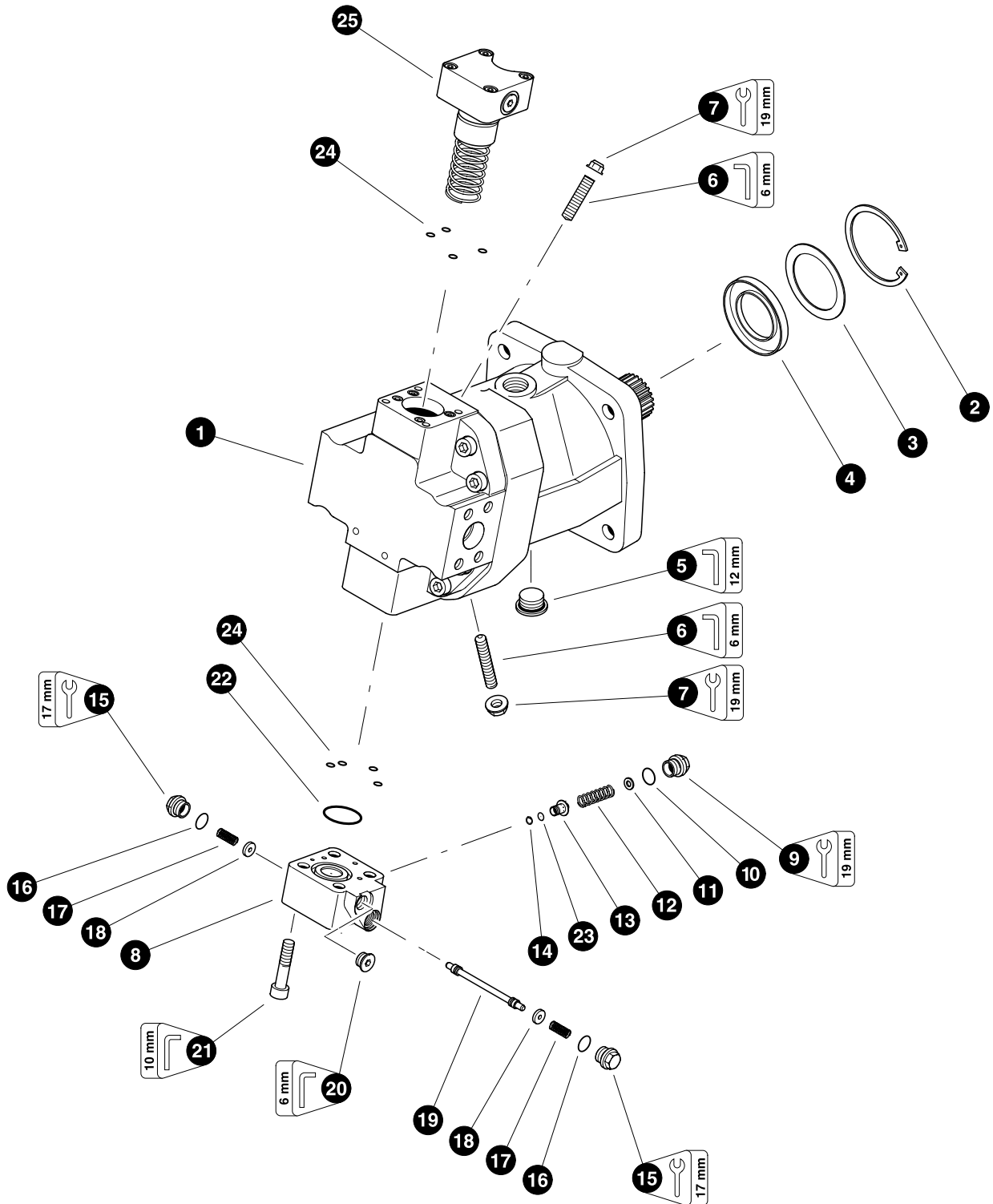
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	WHEEL DRIVE PUMP - Rexroth AA4VG180	C.3.12
2	NSS	1		HOUSING, filter	
3	20365	3	★	O-RING, filter housing	
4	20366	4		BOLT, allen head - 8mm x 25mm	
5	19878	1		FILTER, hydraulic - spin-on	
	NSS	1		GASKET, filter	
-	20328	1		KIT, seal repair - complete AA4VG180 pump	

- ✓ See referenced page for component breakdown.
- Kit or Assembly - includes all items indented underneath.
- ★ Included in seal repair kit Part # 20328.

Note:

Due to warranty policy restrictions imposed by Timbco's component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.

See Page C.3.12 for forward cast housing components.
 See Page C.3.14 for rear port block components.
 See Page C.3.16 for stroke control assembly.
 See Page C.3.18 for charge pump & thru drive components.



Parts 00473 02/22/98
25.00

WHEEL DRIVE MOTOR - REXROTH AA6VM160

(Motor Housing & Stroker Piston Cover Assembly)

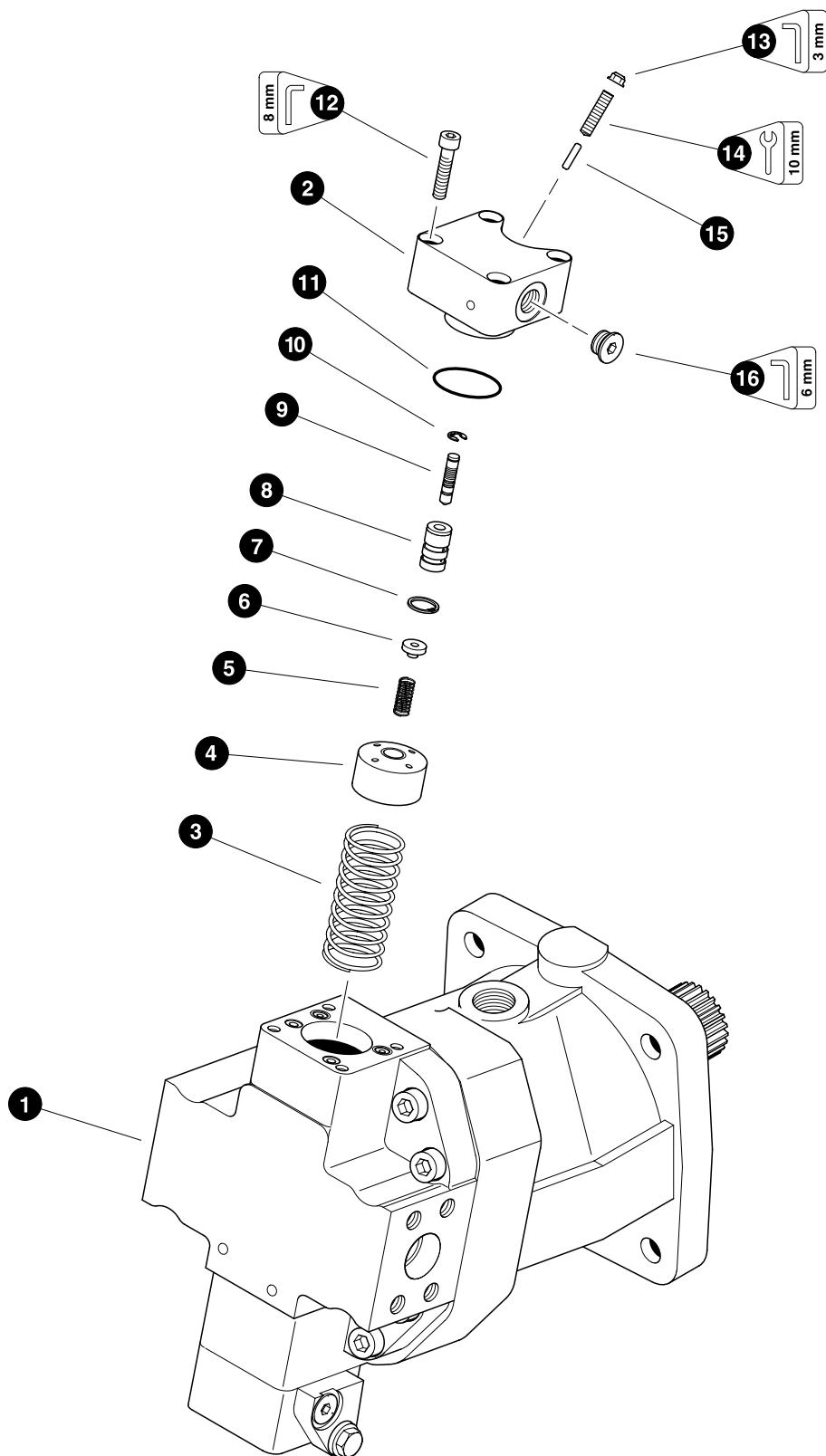
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19900	1	☐	MOTOR, wheel drive - Rexroth AA6VM160 (<i>Front</i>) (S/N# tag No. 5652-004-030)	
	19901	1	☐	MOTOR, wheel drive - Rexroth AA6VM160 (<i>Rear</i>) (S/N# tag No. 5652-004-031)	
2	20685	1		RING, snap	
3	20686	1		SHIM, shaft seal	
4	20687	1	★	SEAL, shaft	
5	19692	1		PLUG - 26mm-1.5P (<i>BSPP thread</i>)	
6	20688	2		SCREW, adjusting (<i>Displacement min & max</i>)	
7	20689	2	★	NUT, seal	
8	20690	1	☐	STROKING PISTON COVER ASSEMBLY	
9	20691	1		PLUG	
10	20713	1	★	O-RING	
11	20714	1		SHIM	
12	20715	1		SPRING	
13	20716	1		POPPET	
14	20718	1		RING, snap	
15	20719	2		PLUG	
16	20720	2	★	O-RING	
17	20721	2		SPRING	
18	20722	2		RETAINER, spring	
19	NSS	1		SPOOL	
20	20693	1		PLUG - 14mm-1.5P (<i>BSPP thread</i>)	
21	20723	4		BOLT, allen head	
22	20724	1	★	O-RING	
23	20717	1		ORIFICE, flushing - 1.2mm	
24	NSS	8		O-RING	
25	REF.	1		STROKING PISTON CONTROL ASSEMBLY	C.3.14
-	20725	1		KIT, seal repair - complete AA6VM160 motor	

☐ Kit or Assembly - includes all items indented underneath.

★ Included in seal repair kit Part # 20725.

Note:

Due to warranty policy restrictions imposed by Timbco's component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.



Parts 00478 02/22/98
37.50

WHEEL DRIVE MOTOR - REXROTH AA6VM160 (HA1T Control Assembly)

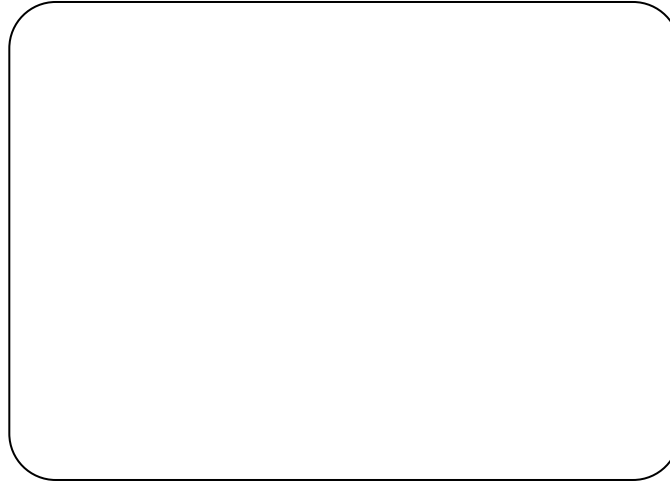
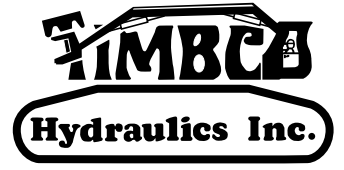
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19900	1	☐	MOTOR, wheel drive - Rexroth AA6VM160 (<i>Front</i>) (S/N# tag No. 5652-004-030)	
	19901	1	☐	MOTOR, wheel drive - Rexroth AA6VM160 (<i>Rear</i>) (S/N# tag No. 5652-004-031)	
2	20726	1	☐	STROKING PISTON CONTROL ASSEMBLY (<i>HA1T</i>)	
3	20727	1		SPRING	
4	20728	1		BUSHING, spring	
5	20729	1		SPRING	
6	20730	1		RETAINER, spring	
7	20731	1		RING, snap	
8	20732	1		BUSHING, control spool	
9	20733	1		SPOOL, control	
10	20734	1		E-CLIP, control spool	
11	20735	1	★	O-RING	
12	20736	4		BOLT, allen head	
13	20737	1	★	NUT, seal	
14	20738	1		SCREW, adjusting (<i>Stroke control</i>)	
15	20739	1		PIN, stroke adjustment	
20	20693	1		PLUG - 14mm-1.5P (<i>BSPP thread</i>)	
-	20725	1		KIT, seal repair - complete AA6VM160 motor	

- ☐ Kit or Assembly - includes all items indented underneath.
 ★ Included in seal repair kit Part # 20725.

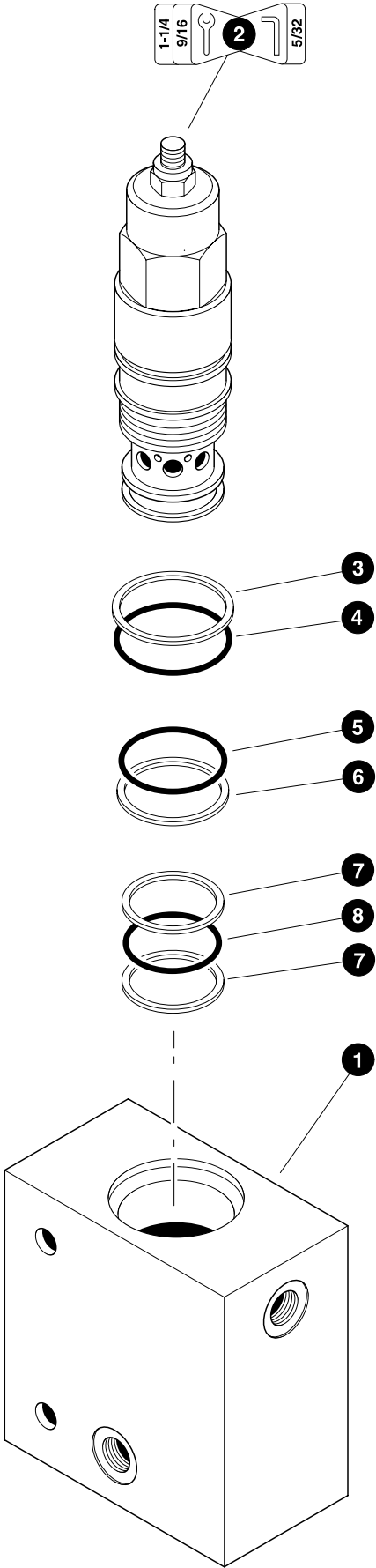
Note:

Due to warranty policy restrictions imposed by Timbco's component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.

Section D.1



Hydraulic Valves & Manifolds - System Pilot Pressure

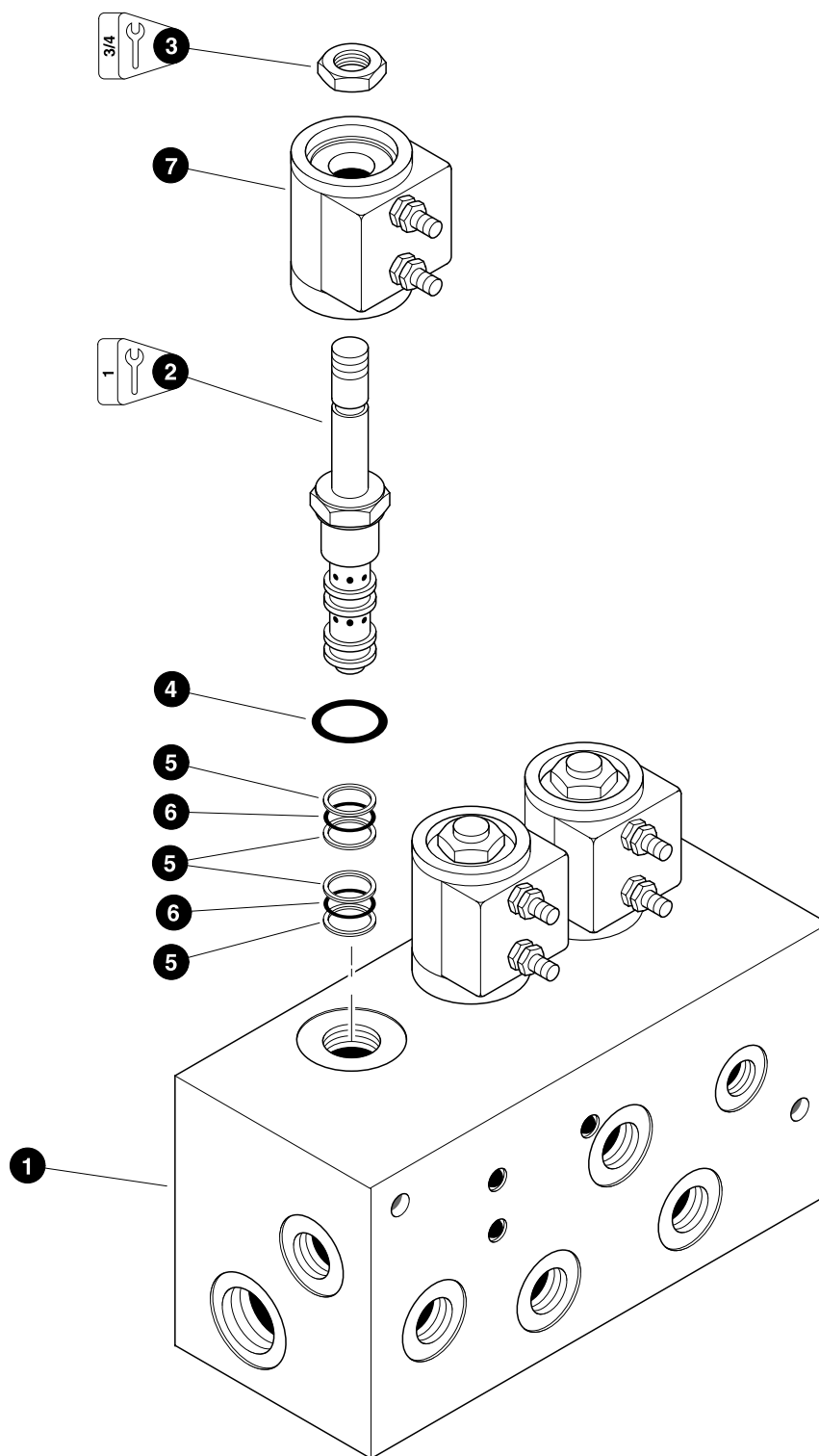


PILOT PRESSURE RELIEF

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	17674	1	☐	VALVE, pilot pressure relief	
1	NSS	1		HOUSING, valve body	
2	17812	1	☐	CARTRIDGE, relief valve	
2	NSS	1	★	RING, back-up - body	
4	NSS	1	★	O-RING, body	
5	NSS	1	★	O-RING, chamber (<i>upper</i>)	
6	NSS	1	★	RING, back-up - chamber (<i>upper</i>)	
7	NSS	2	★	RING, back-up - chamber (<i>lower</i>)	
8	NSS	1	★	O-RING, chamber (<i>lower</i>)	
-	16086	1		KIT, seal repair - relief valve cartridge	

☐ Kit or Assembly - includes all items indented underneath.

★ Included in seal repair kit Part # 16086.

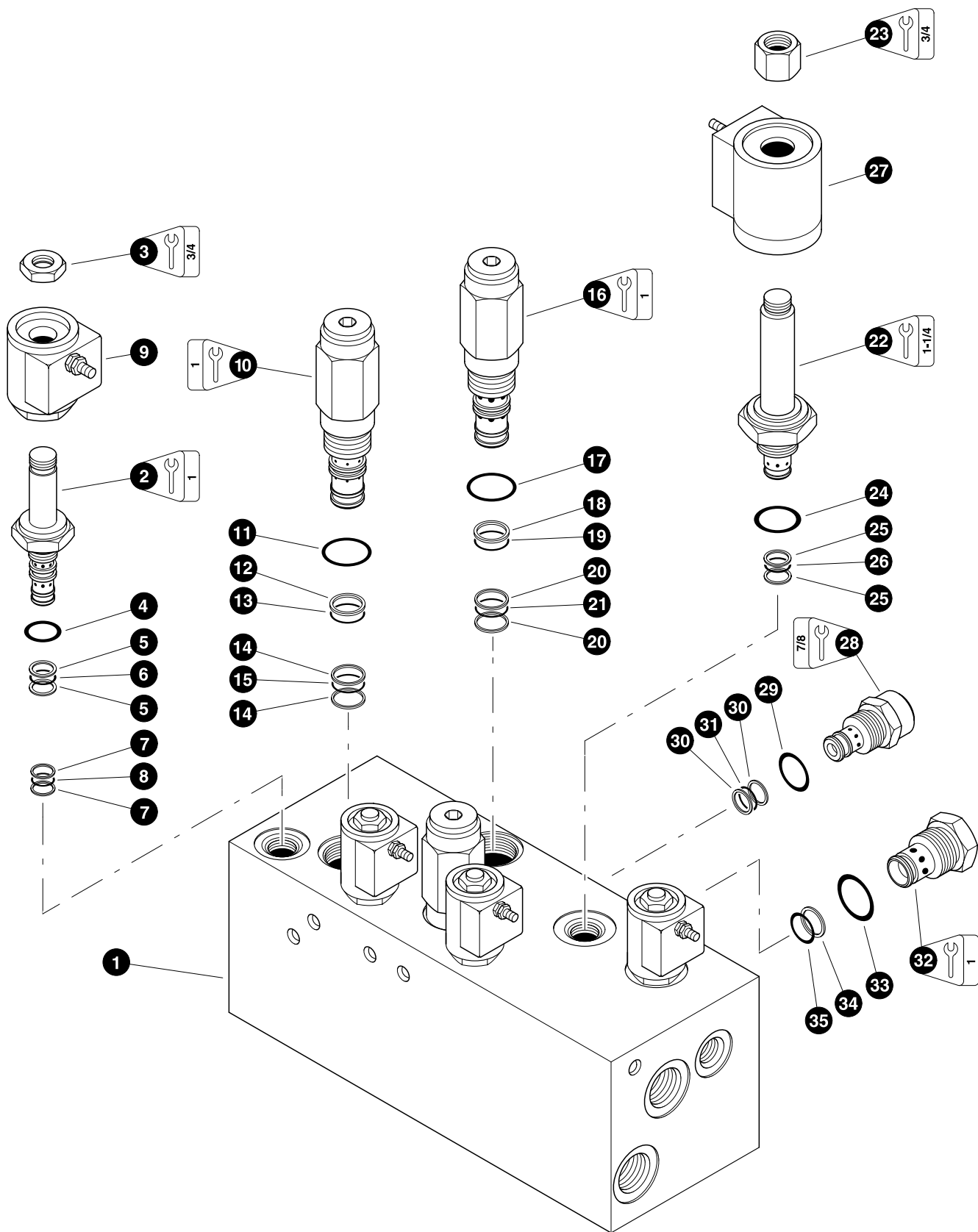


PILOT PRESSURE MANIFOLD

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	17752	1	☐	VALVE, pilot pressure manifold	
1	NSS	1		HOUSING, valve body	
2	17798	3	☐	CARTRIDGE, solenoid valve	
3	NSS	1		NUT	
4	NSS	1	★	O-RING, body	
5	NSS	4	★	RING, back-up - chamber	
6	NSS	2	★	O-RING, chamber	
7	17797	1		COIL, pilot pressure manifold - 12V	
-	17799	1		KIT, seal repair - relief valve cartridge	

☐ Kit or Assembly - includes all items indented underneath.

★ Included in seal repair kit Part # 17799.



MONO-BLOCK VALVE

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	19220	1	□	VALVE, mono-block valve	
1	NSS	1		HOUSING, valve body	
2	20286	3	□	CARTRIDGE, solenoid valve <i>(small)</i> (SV07-31-0-N-12DB)	
2	22394	1	□	CARTRIDGE, solenoid valve <i>(small)</i> (SV08-40-0-N-12DB)	
3	NSS	1		NUT	
4	NSS	1	★	O-RING, body	
5	NSS	2	★	RING, back-up - chamber <i>(upper)</i>	
6	NSS	1	★	O-RING, chamber <i>(upper)</i>	
7	NSS	2	★	RING, back-up - chamber <i>(lower)</i>	
8	NSS	1	★	O-RING, chamber <i>(lower)</i>	
9	20289	1		COIL, mono-block valve - 12V <i>(small)</i>	
10	20290	2	□	CARTRIDGE, relief valve <i>(PR10)</i>	
11	NSS	1	☆	O-RING, body	
12	NSS	1	☆	RING, back-up - chamber <i>(upper)</i>	
13	NSS	1	☆	O-RING, chamber <i>(upper)</i>	
14	NSS	2	☆	RING, back-up - chamber <i>(lower)</i>	
15	NSS	1	☆	O-RING, chamber <i>(lower)</i>	
16	20292	1	□	CARTRIDGE, relief valve <i>(UP10)</i>	
17	NSS	1	●	O-RING, body	
18	NSS	1	●	RING, back-up - chamber <i>(upper)</i>	
19	NSS	1	●	O-RING, chamber <i>(upper)</i>	
20	NSS	2	●	RING, back-up - chamber <i>(lower)</i>	
21	NSS	1	●	O-RING, chamber <i>(lower)</i>	
22	20287	1	□	CARTRIDGE, solenoid valve <i>(small)</i>	
23	NSS	1		NUT	
24	NSS	1	○	O-RING, body	
25	NSS	2	○	RING, back-up - chamber	
26	NSS	1	○	O-RING, chamber	
27	20295	1		COIL, mono-block valve - 12V <i>(large)</i>	
28	20296	1	□	CARTRIDGE, check valve <i>(FR08)</i>	
29	NSS	1	■	O-RING, body	
30	NSS	2	■	RING, back-up - chamber	
31	NSS	1	■	O-RING, chamber	
32	20298	1	□	CARTRIDGE, check valve <i>(CV10)</i>	
33	NSS	1	▲	O-RING, body	
34	NSS	2	▲	RING, back-up - chamber	
35	NSS	1	▲	O-RING, chamber	
-	20288	1		KIT, seal repair - solenoid cartridge	
-	20291	1		KIT, seal repair - relief valve cartridge	
-	20293	1		KIT, seal repair - relief valve cartridge	
-	20294	1		KIT, seal repair - solenoid cartridge	
-	20297	1		KIT, seal repair - check valve cartridge	
-	20299	1		KIT, seal repair - check valve cartridge	

□ Kit or Assembly - includes all items indented underneath.

★ Included in seal repair kit Part # 20288.

☆ Included in seal repair kit Part # 20291.

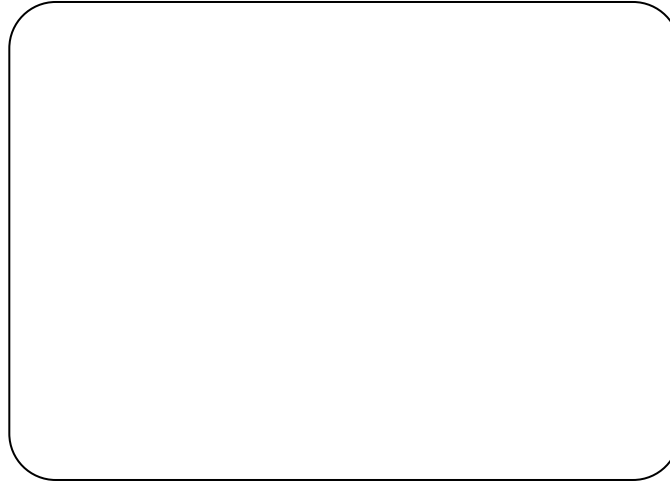
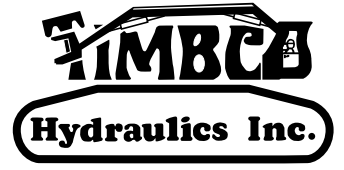
● Included in seal repair kit Part # 20293.

○ Included in seal repair kit Part # 20294.

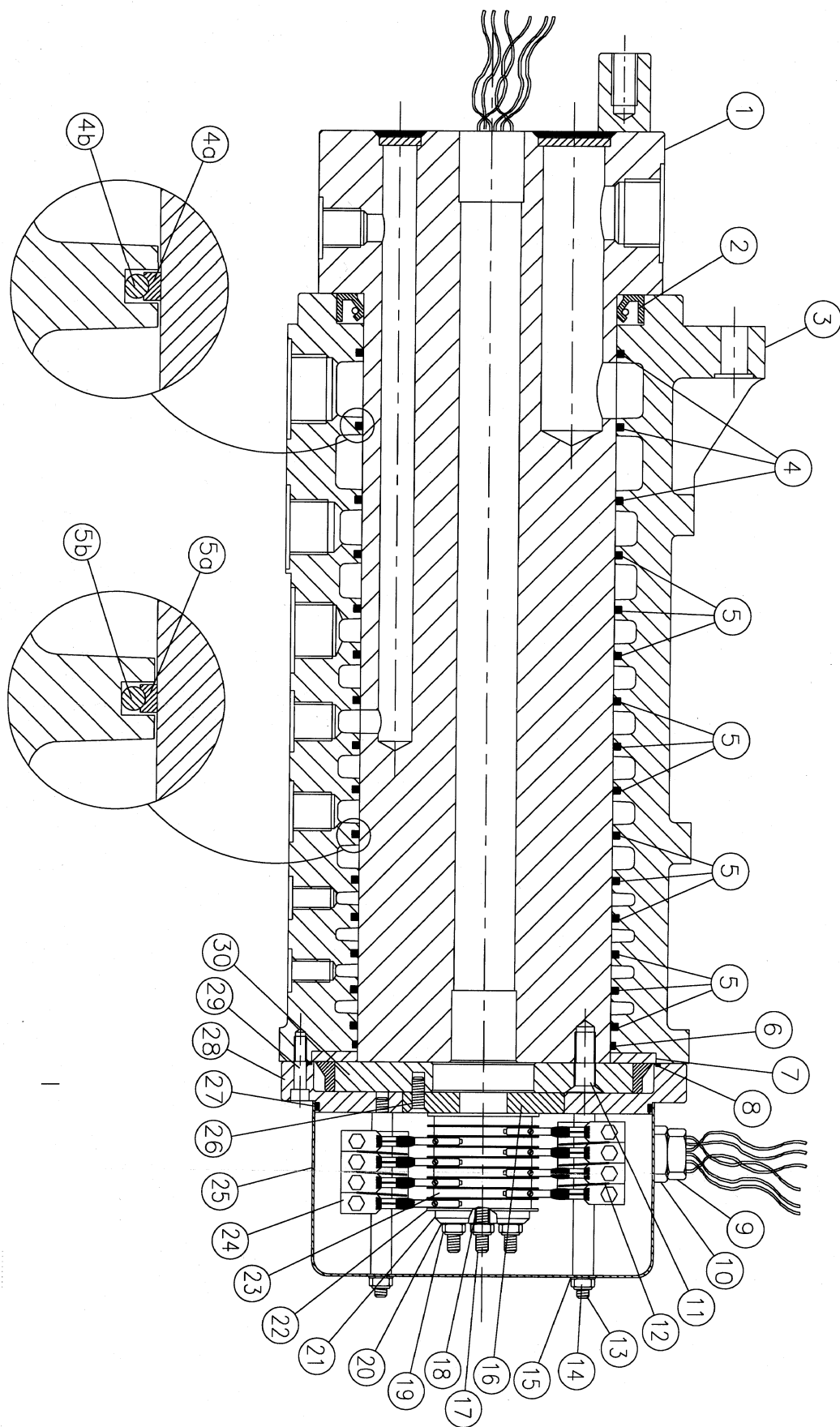
■ Included in seal repair kit Part # 20297.

▲ Included in seal repair kit Part # 20299.

Section D.2



Hydraulic Valves & Manifolds - Loader Implements



ROTARY MANIFOLD (Fluidtronics)

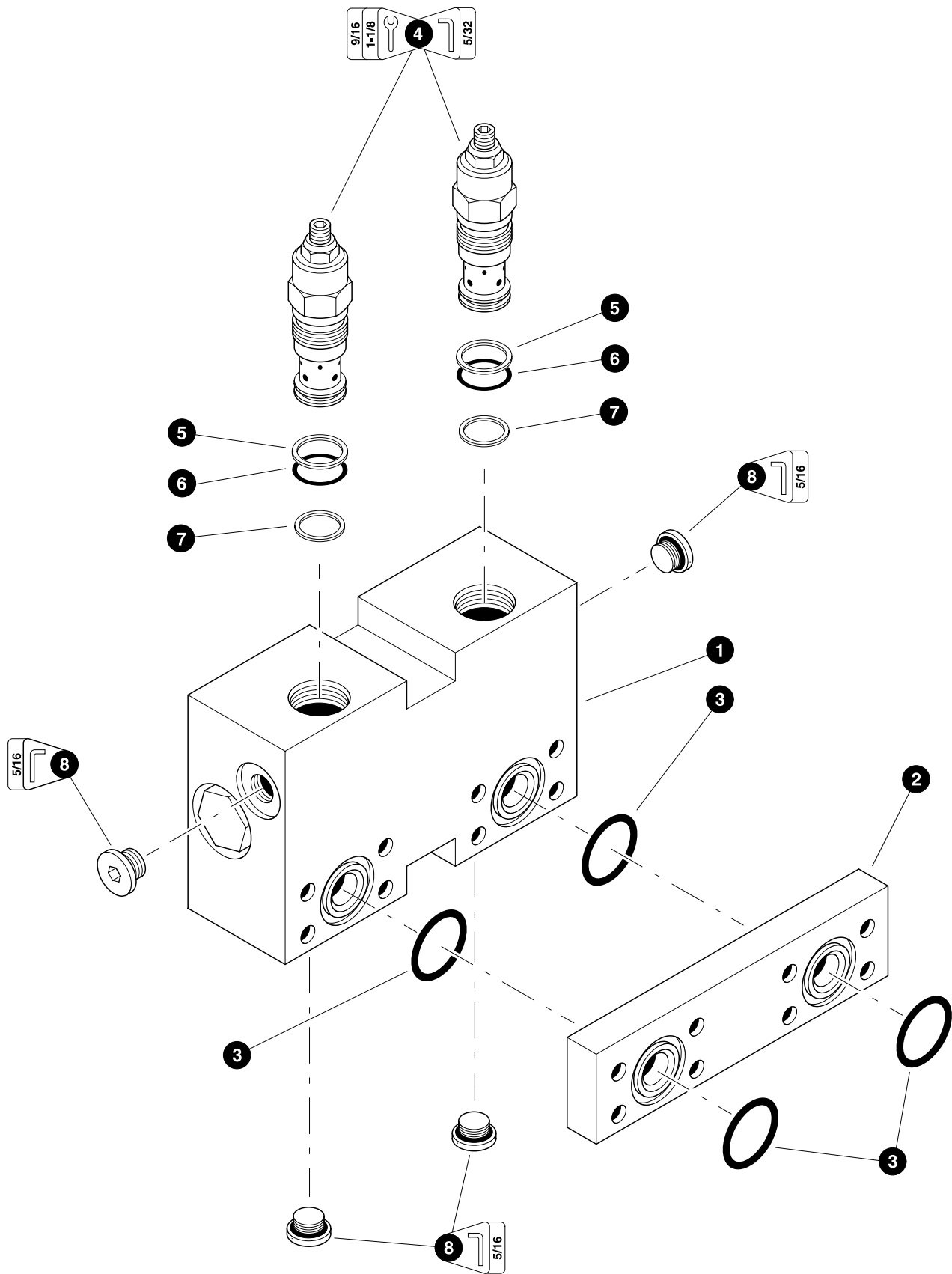
REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	21044	1	☐	MANIFOLD, rotary - 1-1/4" ORB porting	
1	NSS	1		PISTON	
2	20669	1	★	SEAL, rotary manifold	
3	NSS	1		HOUSING	
4a	NSS	3	★	SEAL, lip (<i>high pressure</i>)	
4b	NSS	3	★	O-RING (<i>high pressure</i>)	
5a	NSS	3	★	SEAL, lip	
5b	NSS	3	★	O-RING	
6	NSS	1	★	O-RING	
7	----	1		RING, teflon	
8	20670	1	★	O-RING, electrical section	
9	----	1		NUT, plastic	
10	----	1		NUT, plastic	
11	----	4		BOLT, flat head socket	
12	20671	6		RING, insulator (<i>large diameter</i>)	
13	----	3		POST, brush	
14	----	3		NUT, nylon	
15	----	3		WASHER, nylon	
16	----	1		SUPPORT, armature post	
17	----	3		POST, armature	
18	----	3		POST, insulator	
19	----	3		NUT, nylon	
20	----	3		WASHER, nylon	
21	----	1		COVER, armature post	
22	20672	9		RING, insulator (<i>small diameter</i>)	
23	20673	8		RING, contact	
24	20674	8		BRUSH, contact	
25	----	1		COVER	
26	----	2		STUD, threaded	
27	20675	1	★	O-RING, cover	
28	----	1		POST, contact brush support	
29	----	4		BOLT, allen head	
30	----	1		PLATE, end (<i>w/integral wiper ring</i>)	
-	19633	1		KIT, seal repair - rotary manifold	

☐ Kit or Assembly - includes all items indented underneath.

★ Included in seal repair kit Part # 19633.

Note:

All rotary manifold components are interchangeable except the piston and housing.



Parts 00156 05/12/96
62.50

SWING MOTOR ANTI-CAVITATION VALVE (Used With Poclain Swing Motor)

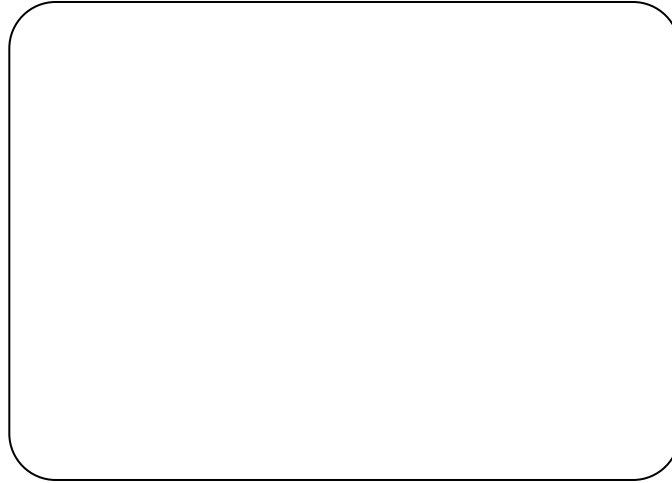
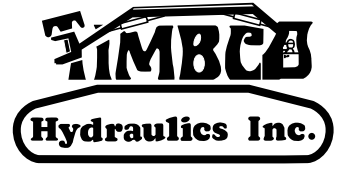
REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	18449	1	☐	VALVE, swing motor anti-cavitation	
1	NSS	1		HOUSING, valve body	
2	NSS	1		SPACER, valve body	
3	16918	4		O-RING - 3/4" (Code 62)	
4	19270	2		CARTRIDGE, anti-cavitation	
5	NSS	1	★	O-RING, body	
6	NSS	1	★	O-RING, chamber	
7	NSS	1	★	RING, back-up - chamber	
8	19271	4		PLUG - 6408-HHP-10	
-	19272	1		KIT, seal repair - anti-cavitation cartridge	

- ☐ Kit or Assembly - includes all items indented underneath.
 ★ Included in seal repair kit Part # 19272.

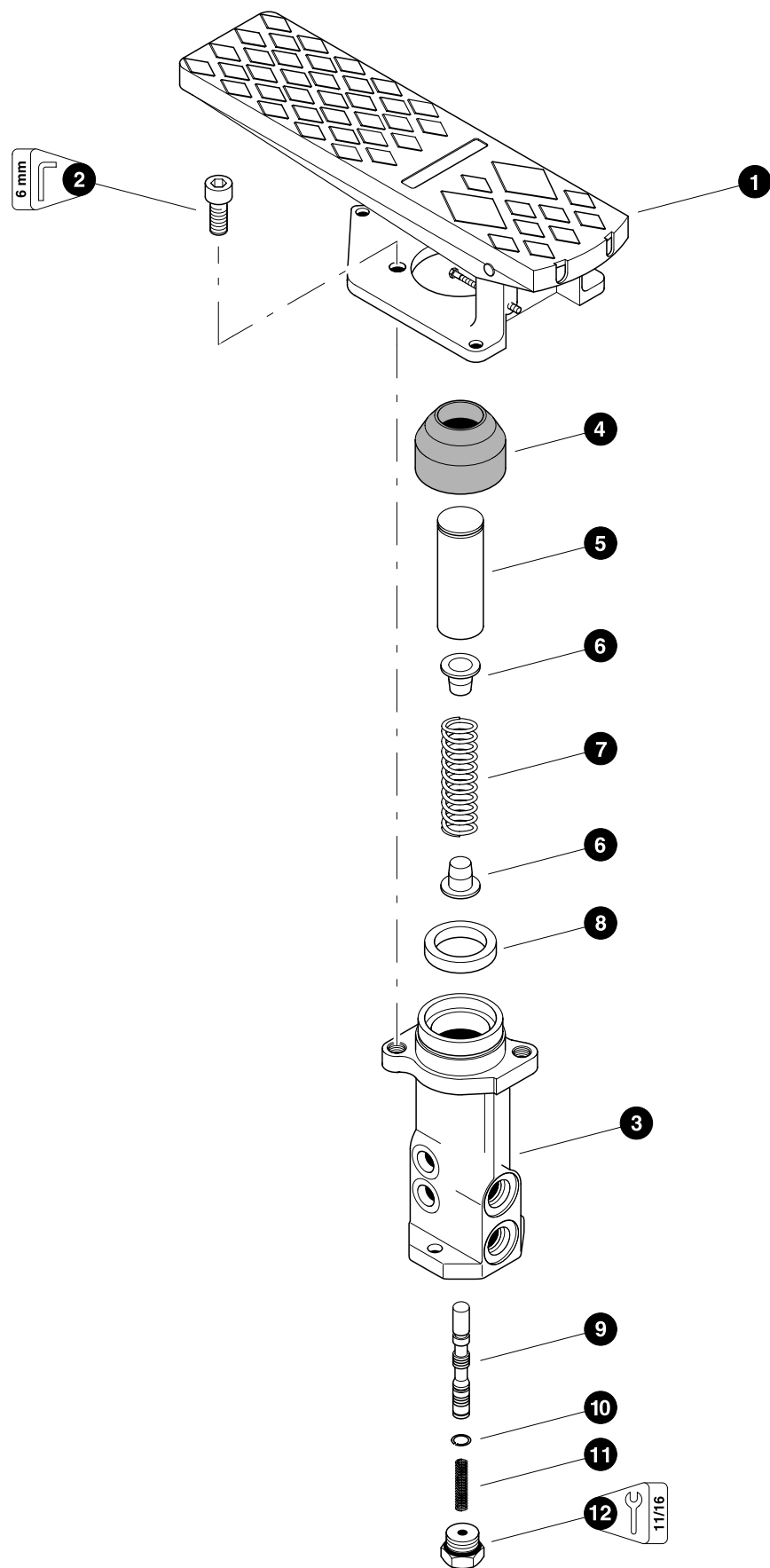
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Section D.3



Hydraulic Valves & Manifolds - Wheel Drive

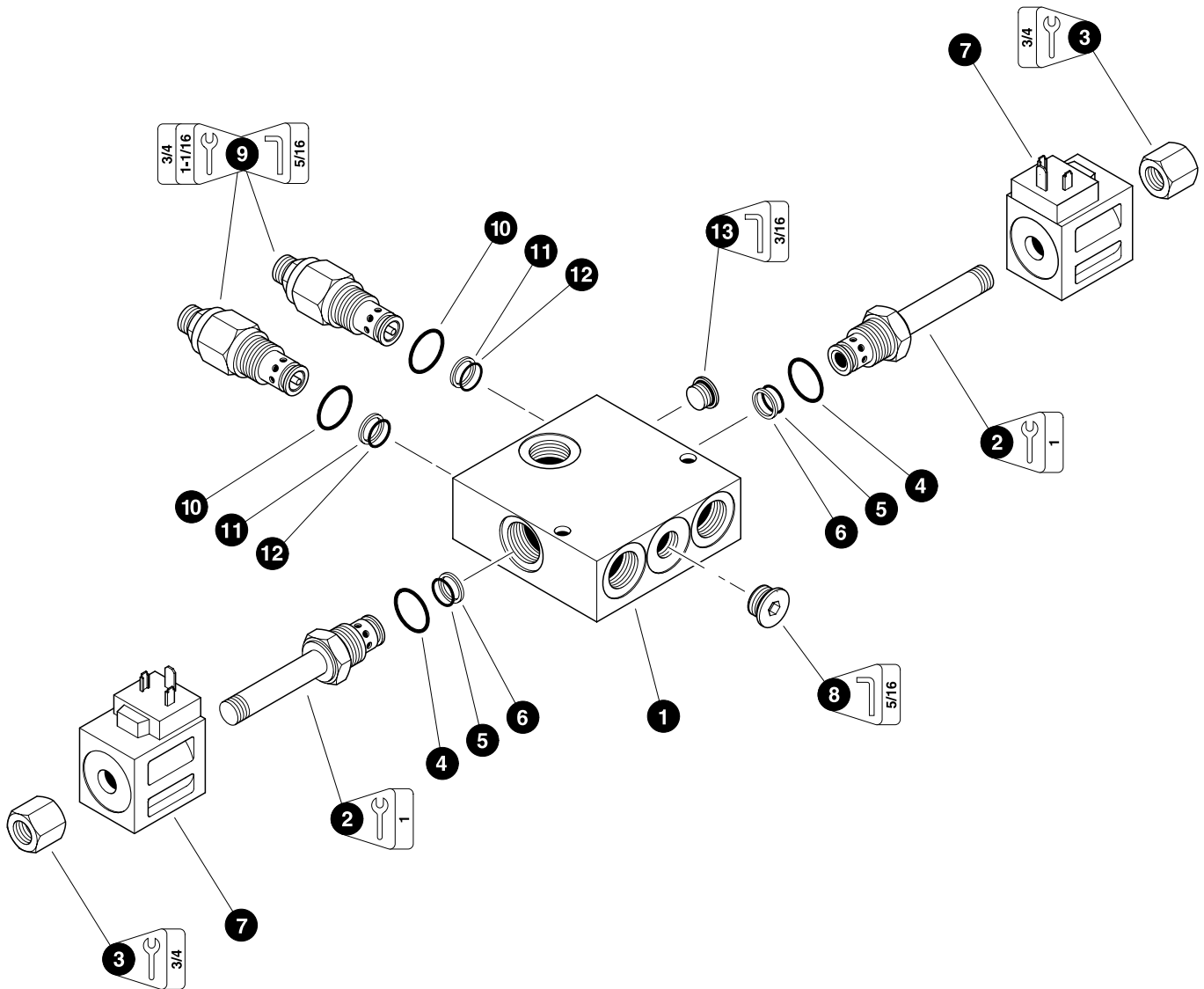


Parts 00389 01/19/98
50.00

TRAVEL BRAKE FOOT CONTROL VALVE (Hydraulic - Rexroth/Morse)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19066	1		PEDAL ASSEMBLY	
2	18965	2		BOLT, allen head - 8mm-1.25P x 20mm	
3	18835	1	☐	VALVE, brake control (60 Bar)	
4	20745	1		BOOT	
5	20746	1		PISTON	
6	20747	2		RETAINER, spring	
7	20748	1		SPRING, piston (60 Bar)	
8	20749	1		SEAL, piston	
9	NSS	1		SPOOL	
10	20751	1		RING, snap	
11	20752	1		SPRING, control	
12	20753	1		PLUG	

☐ Kit or Assembly - includes all items indented underneath.



FRAME LOCK VALVE

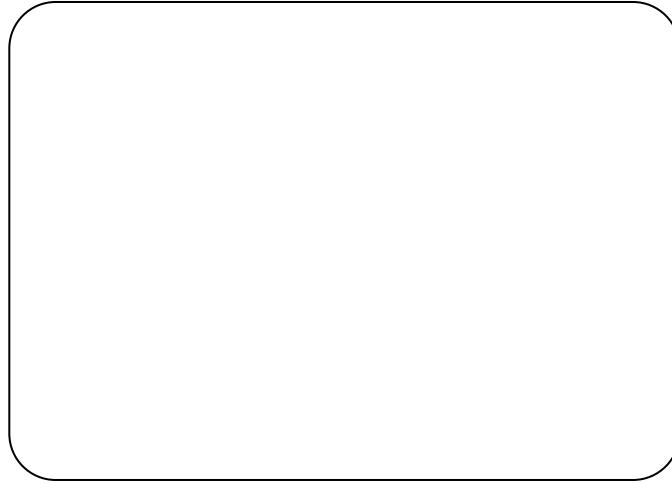
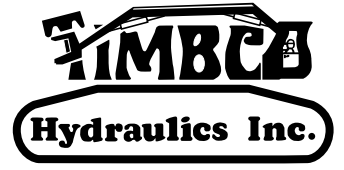
REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	18865	1	☐	VALVE, frame lock	
1	NSS	1		BODY	
2	20597	2	☐	CARTRIDGE, solenoid - 12V	
3	NSS	1		NUT	
4	NSS	1	★	O-RING - body	
5	NSS	1	★	O-RING - chamber	
6	NSS	1	★	RING, back-up - chamber	
7	18684	1		COIL, solenoid - 12V	
8	18949	1	☐	PLUG - 6408-HHP-8	
	20321	1		O-RING, ORB - #8	
9	20598	2	☐	CARTRIDGE, relief	
10	NSS	1	☆	O-RING - body	
11	NSS	1	☆	RING, back-up - chamber	
12	NSS	1	☆	O-RING - chamber	
13	11383	1	☐	PLUG - 6408-HHP-4	
	20319	1		O-RING, ORB - #4	
-	20599	1		KIT, seal repair - solenoid cartridge	
-	20600	1		KIT, seal repair - relief cartridge	

☐ Kit or Assembly - includes all items indented underneath.

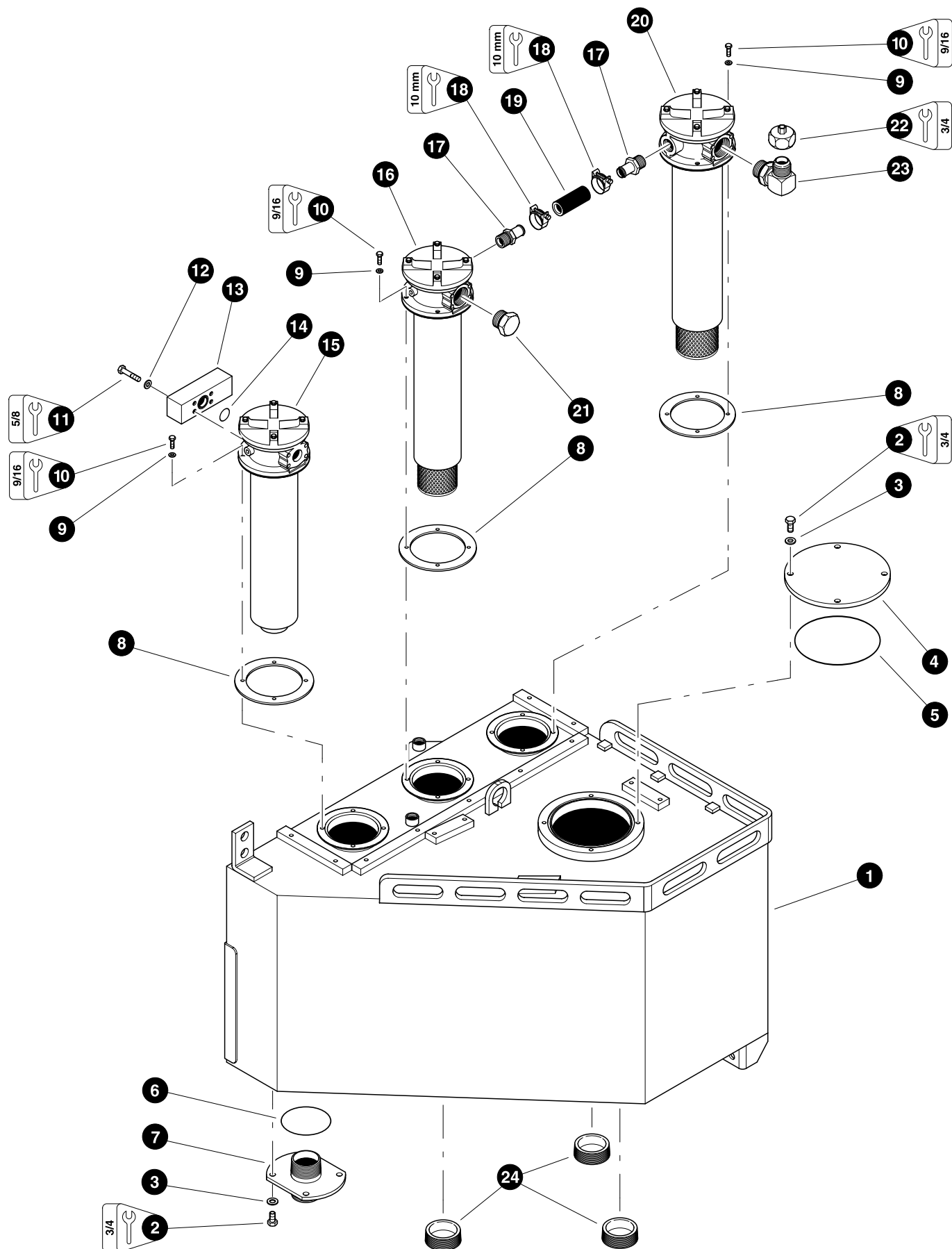
★ Included in seal repair kit Part # 20599.

☆ Included in spring capsule kit Part # 20600.

Section E.1



Hydraulic Tank & Cylinders - Hydraulic Tank

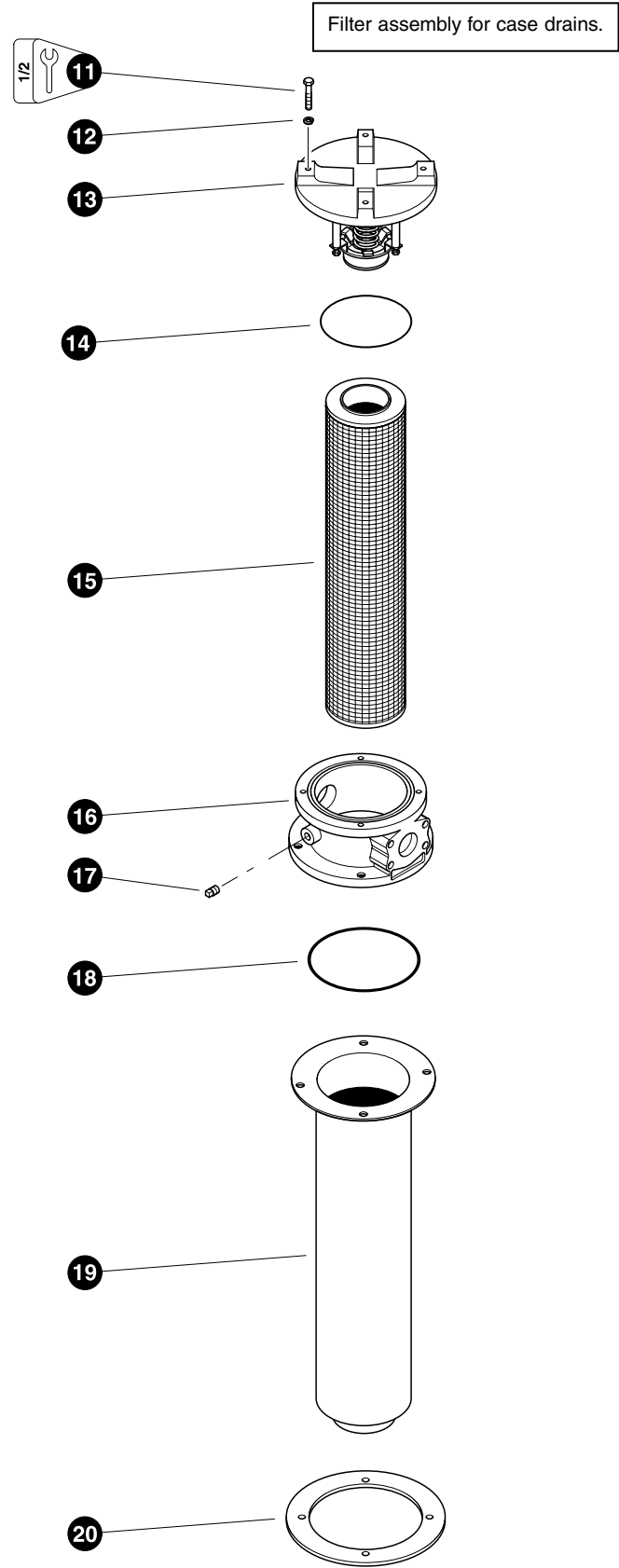


Parts 00304 12/04/97
12.50

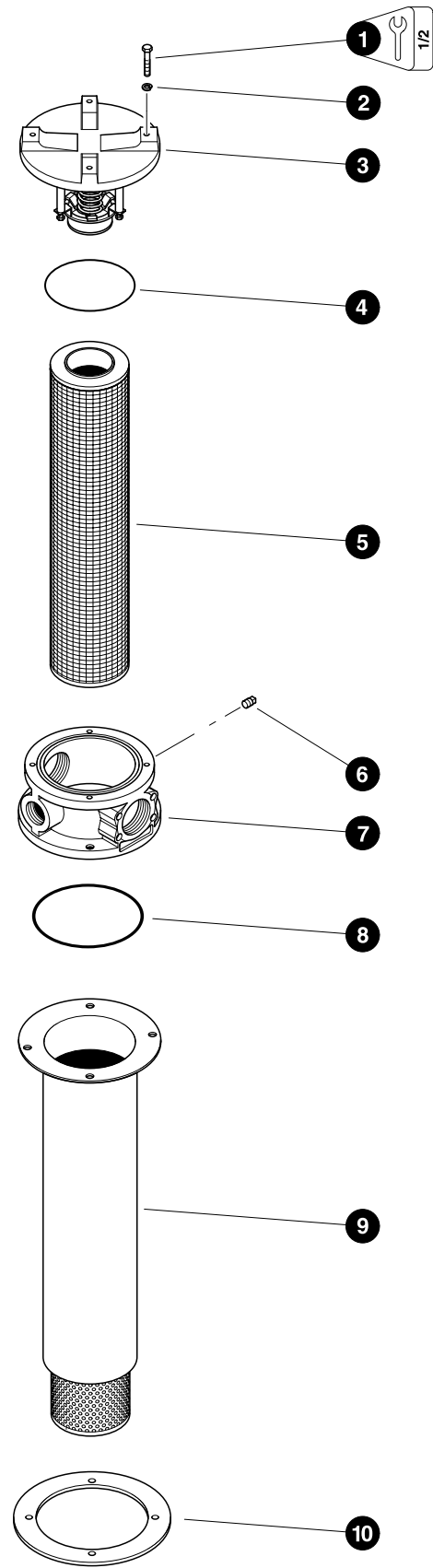
HYDRAULIC TANK ASSEMBLY & RETURN FILTER INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	12401	1	☐	TANK, hydraulic oil	
2	10783	8		BOLT - 1/2" x 1"	
3	15534	8		WASHER, SAE flat - 1/2"	
4	18635	1		COVER, tank access	
5	15600	1		O-RING, tank access cover	
6	15448	1		O-RING, system pump suction cover	
7	22462	1		COVER, system pump suction (Used on machines PDN #94FWD and above)	
	16552	1		COVER, system pump suction (Used on machines PDN #93FWD and below)	
8	REF.	3	✓	GASKET, rubber return filter mounting	E.1.4
9	15528	12		WASHER, SAE flat - 3/8"	
10	10402	12		BOLT - 3/8" x 1-1/4"	
11	10883	4		BOLT - 7/16" x 3"	
12	15548	4		WASHER, SAE flat - 7/16"	
13	17667	1		MANIFOLD, case drain	
14	15378	1		O-RING - 1-1/4" SF	
15	REF.	1	✓	RETURN FILTER ASSEMBLY - case drain	E.1.4
16	REF.	1	✓	RETURN FILTER ASSEMBLY - oil cooler return	E.1.4
17	16375	2		NIPPLE, straight king - 4404-16-16	
18	15191	2		CLAMP, constant torque - 1-1/2"	
19	18107	1		HOSE, filter connection	
20	REF.	1	✓	RETURN FILTER ASSEMBLY - auxiliary	E.1.4
21	16727	1		PLUG - 6408-24	
22	16810	1		CAP, fill	
23	16809	1		ELBOW, 90° - 6801-24	
24	16774	3		PLUG - 3"	

- ☐ Kit or Assembly - includes all items indented underneath.
 ✓ See referenced page for component or assembly breakdown.



Parts 00091 05/13/96
18.75



Filter assembly for oil cooler
return oil and optional disc saw
return oil.

RETURN FILTER ASSEMBLIES

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	16730	2	☐	FILTER, return <i>(Used with oil cooler return and auxiliary return oil)</i>	
1	10882	4		BOLT - 5/16" x 3/4"	
2	15559	4		WASHER, SAE flat - 5/16"	
3	16764	1		COVER, filter head	
4	NSS	1	★	O-RING, filter head cover	
5	21163	1		ELEMENT, return filter	
6	11360	1		PLUG - 5406-P-2	
7	16767	1		HEAD, filter	
8	NSS	1	★	O-RING, square - filter head	
9	16769	1		TUBE, diffuser	
10	NSS	1	★	GASKET, rubber filter mounting	
-	16852	2		KIT, seal repair - return filter	
-	17692	1	☐	FILTER, return <i>(Used with case drains)</i>	
11	10882	4		BOLT - 5/16" x 3/4"	
12	15559	4		WASHER, SAE flat - 5/16"	
13	16764	1		COVER, filter head	
14	NSS	1	★	O-RING, filter head cover	
15	21163	1		ELEMENT, return filter	
16	11360	1		PLUG - 5406-P-2	
17	16766	1		HEAD, filter	
18	NSS	1	★	O-RING, square - filter head	
19	18772	1		TUBE, diffuser	
20	NSS	1	★	GASKET, rubber filter mounting	
-	16852	1		KIT, seal repair - return filter	

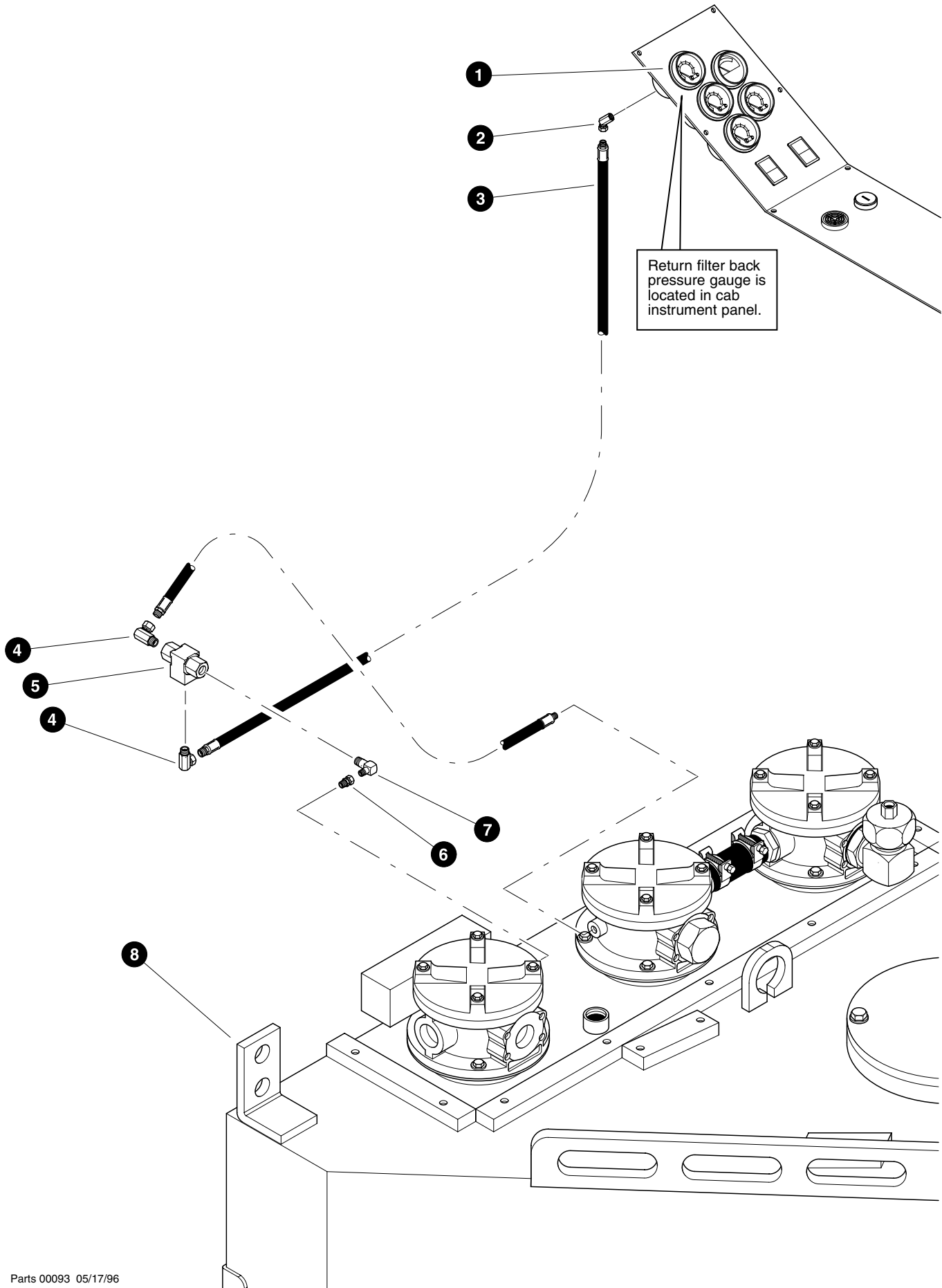
☐ Kit or Assembly - includes all items indented underneath.

★ Included in seal repair kit PN# 16852.

HYDRAULIC TANK INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	10783	4	BOLT - 1/2" x 1" (100 ft.lbs. (135 Nm))	
2	15534	14	WASHER, SAE flat - 1/2"	
3	16824	1	GUARD, fill spout	
4	16773	1	GUARD, return filter	
5	REF.	1	✓ HYDRAULIC TANK ASSEMBLY	E.1.2
6	10739	6	BOLT - 1/2" x 1-1/2" (100 ft.lbs. (135 Nm))	
7	10815	3	NUT, lock - 1/2"	
8	20211	1	BRACKET, hydraulic tank exterior mounting <i>(Used on machines PDN# 044FWD and above)</i>	
	80218	1	BRACKET, hydraulic tank exterior mounting <i>(Used on machines PDN# 043FWD and below)</i>	
9	20740	AR	SHIM, hydraulic tank support <i>(1/8" thick)</i>	
	20741	AR	SHIM, hydraulic tank support <i>(3/16" thick)</i>	
	20742	AR	SHIM, hydraulic tank support <i>(1/4" thick)</i>	
10	18459	1	SUPPORT, hydraulic tank	
11	18575	1	BRACKET, hydraulic tank support angle	
12	10736	2	BOLT - 1/2" x 2" (100 ft.lbs. (135 Nm))	
13	15502	2	BOLT - 5/8" x 1-1/2" (200 ft.lbs. (265 Nm))	
14	10771	2	WASHER, SAE flat - 5/8"	
15	15528	9	WASHER, SAE flat - 3/8"	
16	15542	9	BOLT - 3/8" x 3/4"	

✓ See referenced page for component or assembly breakdown.

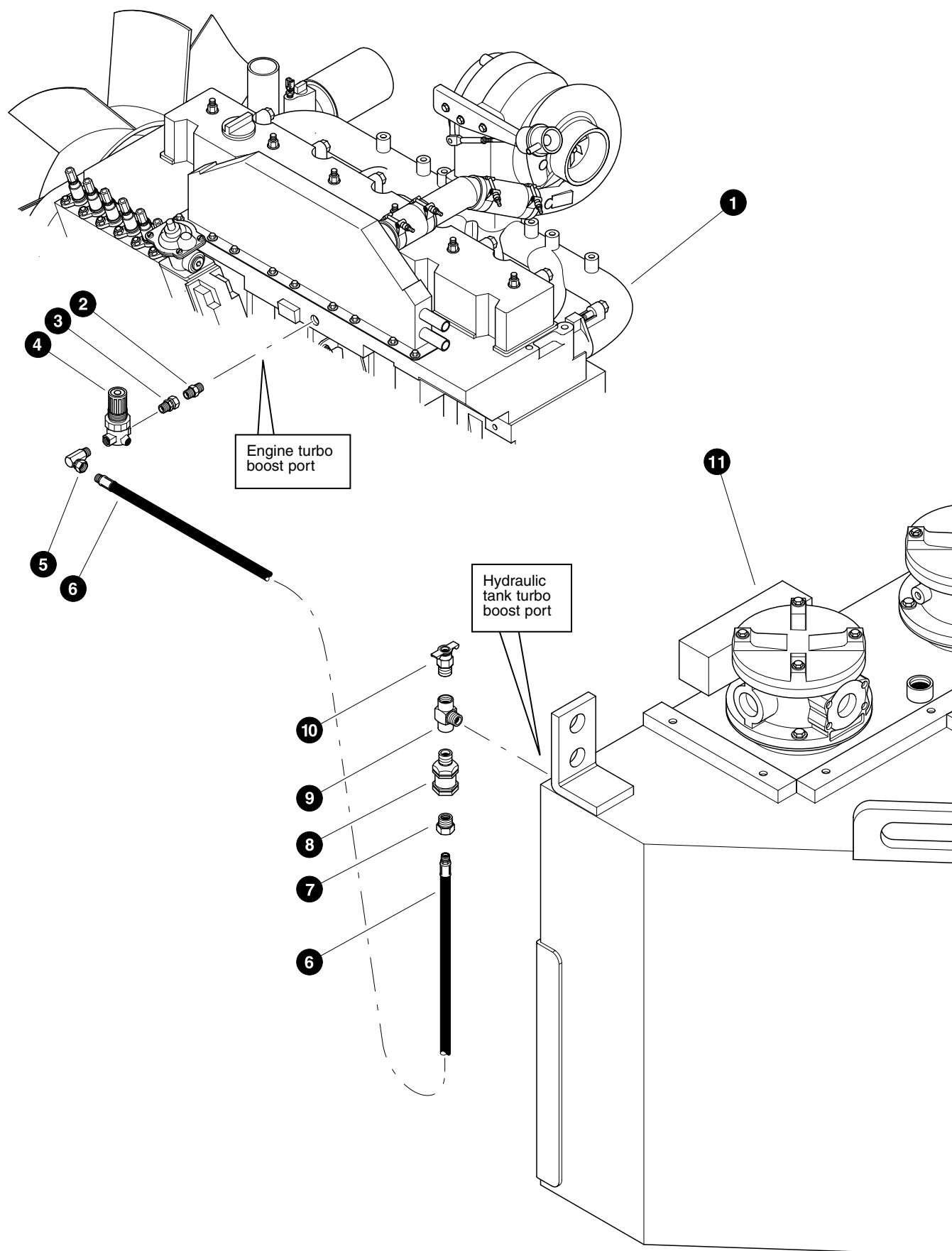


Parts 00093 05/17/96

RETURN FILTER BACK PRESSURE SENSE LINE

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	18170	1	GAUGE, return filter back pressure	
2	16263	1	ELBOW, 45° swivel female - 1504-2-2	
3	16006	1	HOSE ASSEMBLY - 2148-04-04PS-02PS (<i>Return filter shuttle valve to return filter back pressure gauge</i>)	
4	10320	2	ELBOW, 90° swivel - 1501-4-4	
5	16802	1	VALVE, shuttle	
6	15391	1	CONNECTOR, straight swivel - 1404-2-2	
7	16791	1	ELBOW, 90° - 5500-4-2	
8	REF.	1	✓ HYDRAULIC TANK ASSEMBLY	E.1.2

✓ See referenced page for component or assembly breakdown.



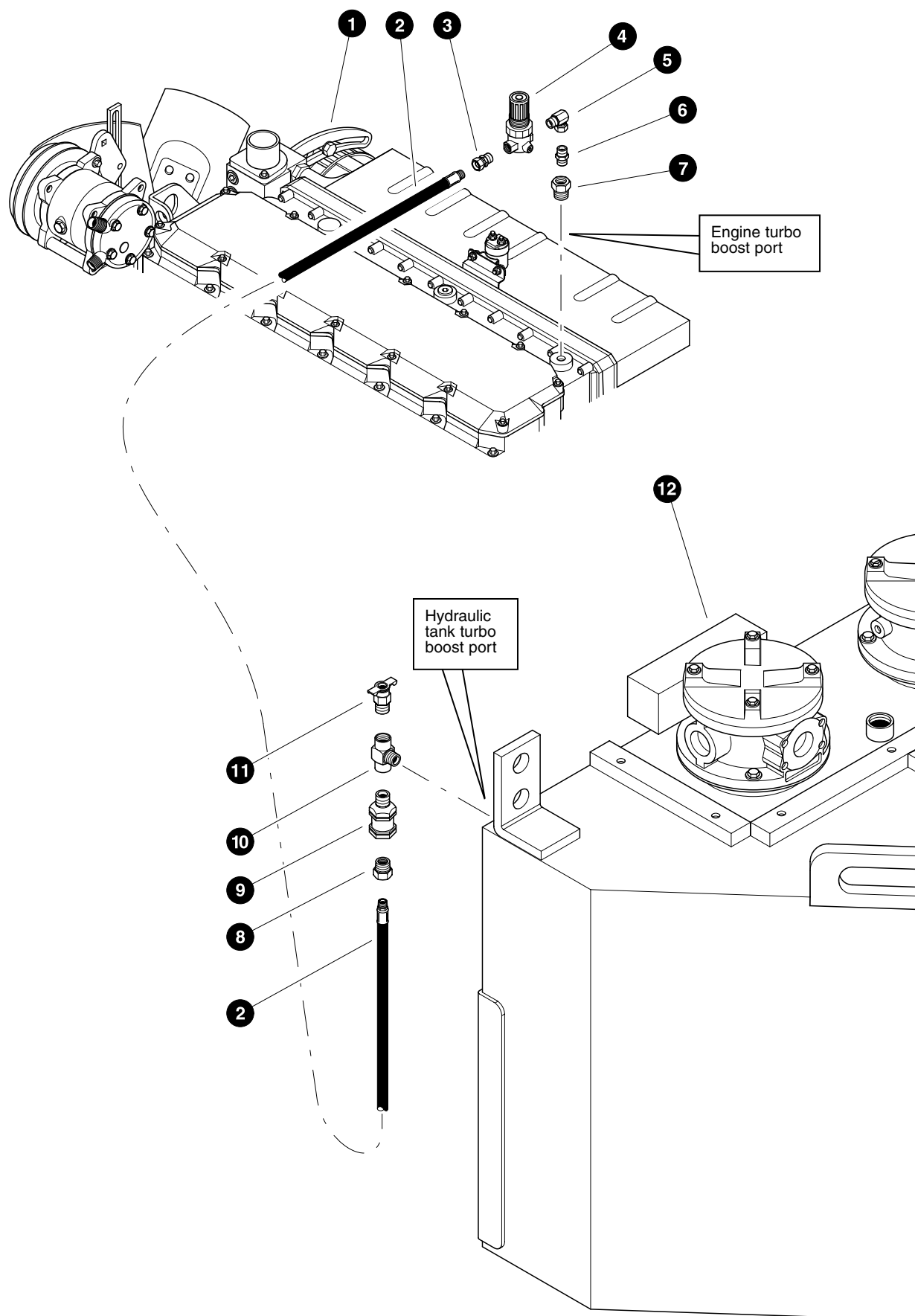
Parts 00452 02/15/98
18.75

TURBO BOOST TANK PRESSURE LINE

(Used With Cummins 6C8.3-C Engine)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ENGINE - Cummins 6C8.3-C	F.4.2
2	15567	1		CONNECTOR, straight - 5404-4	
3	11331	1		CONNECTOR, straight swivel - 1404-4-4	
4	15649	1		REGULATOR, turbo boost	
5	10320	1		ELBOW, 90° swivel - 1501-4-4	
6	20180	1		HOSE ASSEMBLY - 2037-04-04PS-04PS (<i>Turbo boost regulator to hydraulic tank</i>)	
7	11318	1		BUSHING, reducer - 5406-6-4	
8	15652	1		VALVE, check	
9	15651	1		TEE - 5604-6	
10	15650	1		VALVE, shut-off	
11	REF.	1	✓	HYDRAULIC TANK ASSEMBLY	E.1.2

✓ See referenced page for component or assembly breakdown.



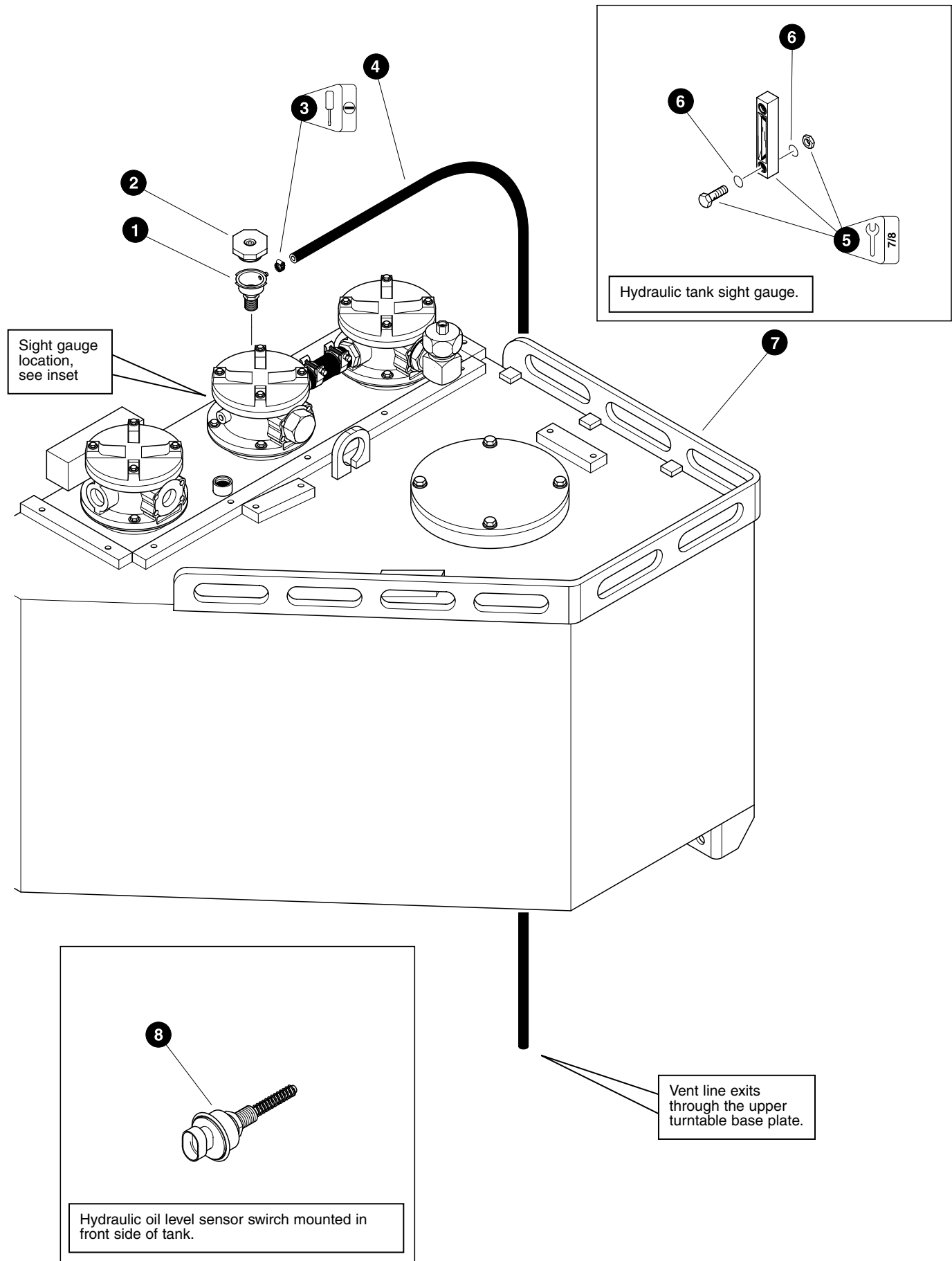
Parts 00453 02/15/98
25.00

TURBO BOOST TANK PRESSURE LINE

(Used With Caterpillar 3116T & 3126T Engines)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ENGINE - Caterpillar 3116T or 3126T	F.5.2
2	20180	1		HOSE ASSEMBLY - 2037-04-04PS-04PS (<i>Turbo boost regulator to hydraulic tank</i>)	
3	11331	1		CONNECTOR, straight swivel - 1404-4-4	
4	15649	1		REGULATOR, turbo boost	
5	10320	1		ELBOW, 90° swivel - 1501-4-4	
6	15567	1		CONNECTOR, straight - 5404-4	
7	11312	1		BUSHING, reducer - 5406-8-4	
8	11318	1		BUSHING, reducer - 5406-6-4	
9	15652	1		VALVE, check	
10	15651	1		TEE - 5604-6	
11	15650	1		VALVE, shut-off	
12	REF.	1	✓	HYDRAULIC TANK ASSEMBLY	E.1.2

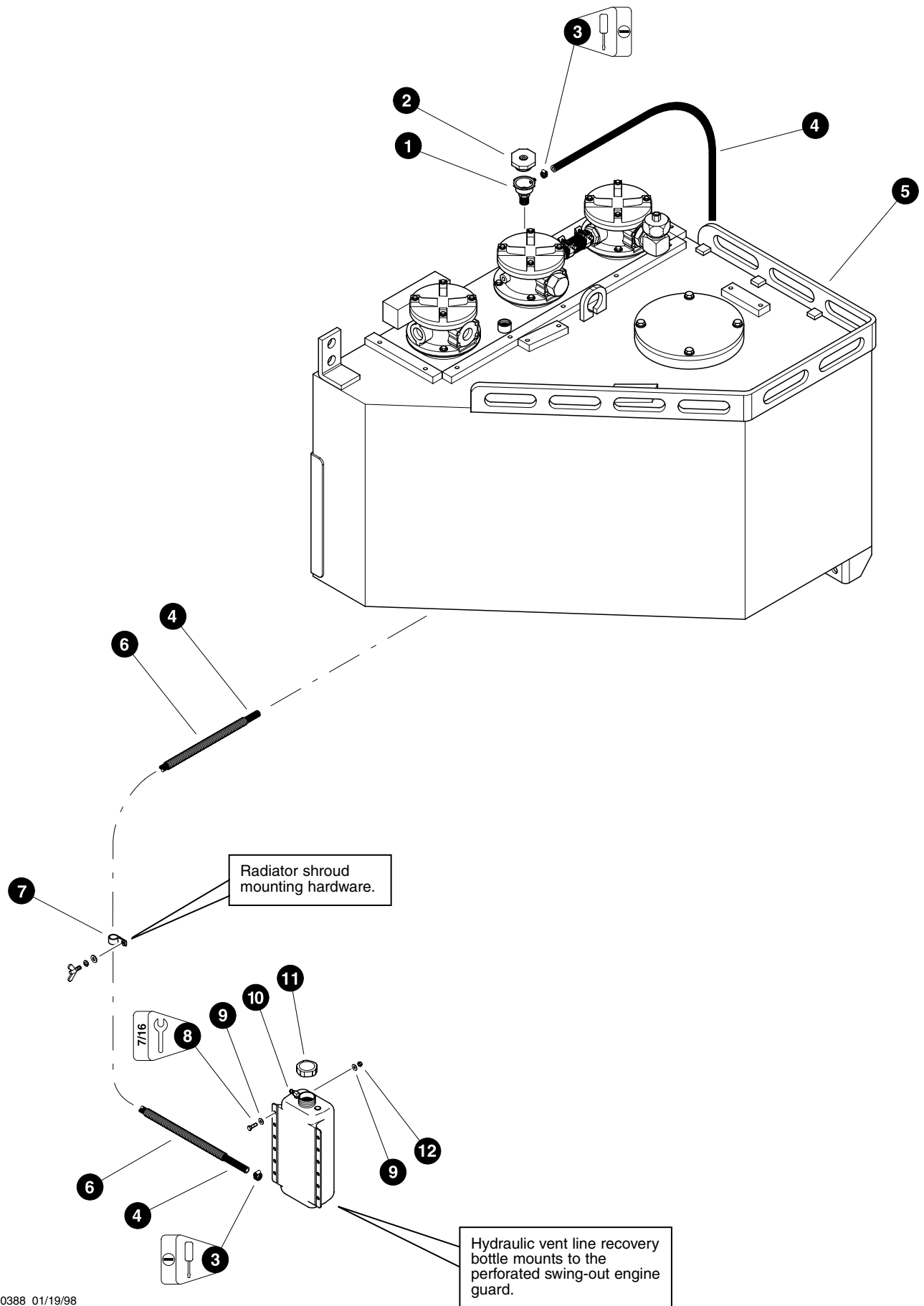
✓ See referenced page for component or assembly breakdown.



HYDRAULIC TANK VENT LINE & SIGHT GAUGE

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	17156	1		STEM, pressure relief cap	
2	18135	1		CAP, pressure relief - 13 psi	
3	16202	1		CLAMP, hose - worm style - 5/8"	
4	16238	AR	✂	HOSE, rubber - 5/16"	
5	15864	1	☐	GAUGE, hydraulic oil level sight	
6	17541	4		O-RING	
7	REF.	1	✓	HYDRAULIC TANK ASSEMBLY	E.1.2
8	17118	1		SWITCH, hydraulic oil level	

- ✂ Bulk material - order length required in feet or meters.
 ☐ Kit or assembly - includes all items indented underneath.
 ✓ See referenced page for component or assembly breakdown.



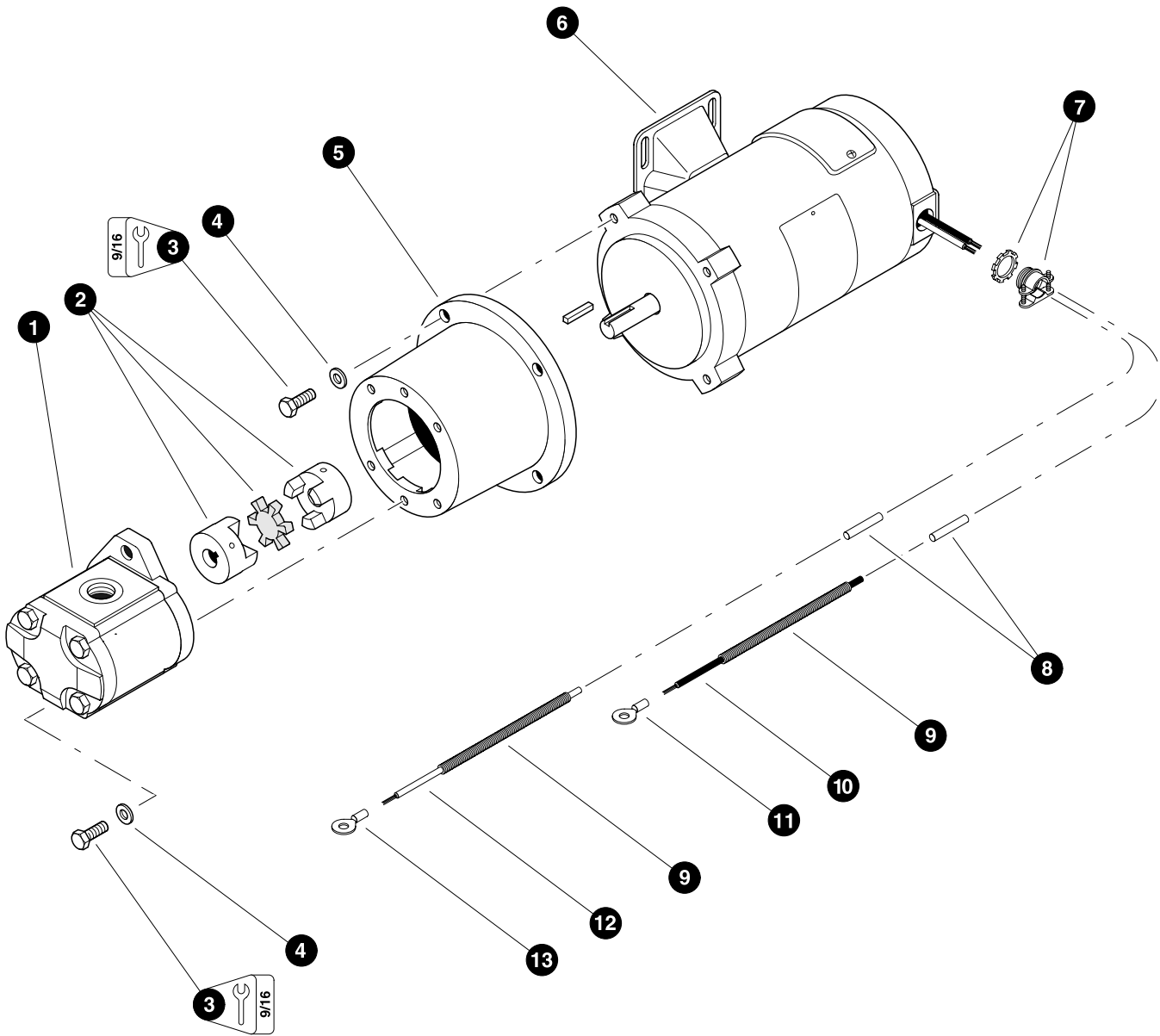
Parts 00388 01/19/98
12.50

OPTIONAL HYDRAULIC TANK VENT LINE RECOVERY BOTTLE

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	17156	1		STEM, pressure relief cap	
2	18135	1		CAP, pressure relief - 13 psi	
3	16202	2		CLAMP, hose - worm style - 5/8"	
4	16238	AR	✂	HOSE, rubber - 5/16"	
5	REF.	1	✓	HYDRAULIC TANK ASSEMBLY	E.1.2
6	17449	AR	✂	LOOM, split - 1/2"	
7	16119	1		CLAMP, hose - coated strap - 1"	
8	15576	4		BOLT - 1/4" x 1"	
9	10800	8		WASHER, flat - 1/4"	
10	16925	1		BOTTLE, overflow	
11	19119	1		CAP, overflow bottle	
12	15509	4		NUT, nylock - 1/4"	

✂ Bulk material - order length required in feet or meters.

✓ See referenced page for component or assembly breakdown.

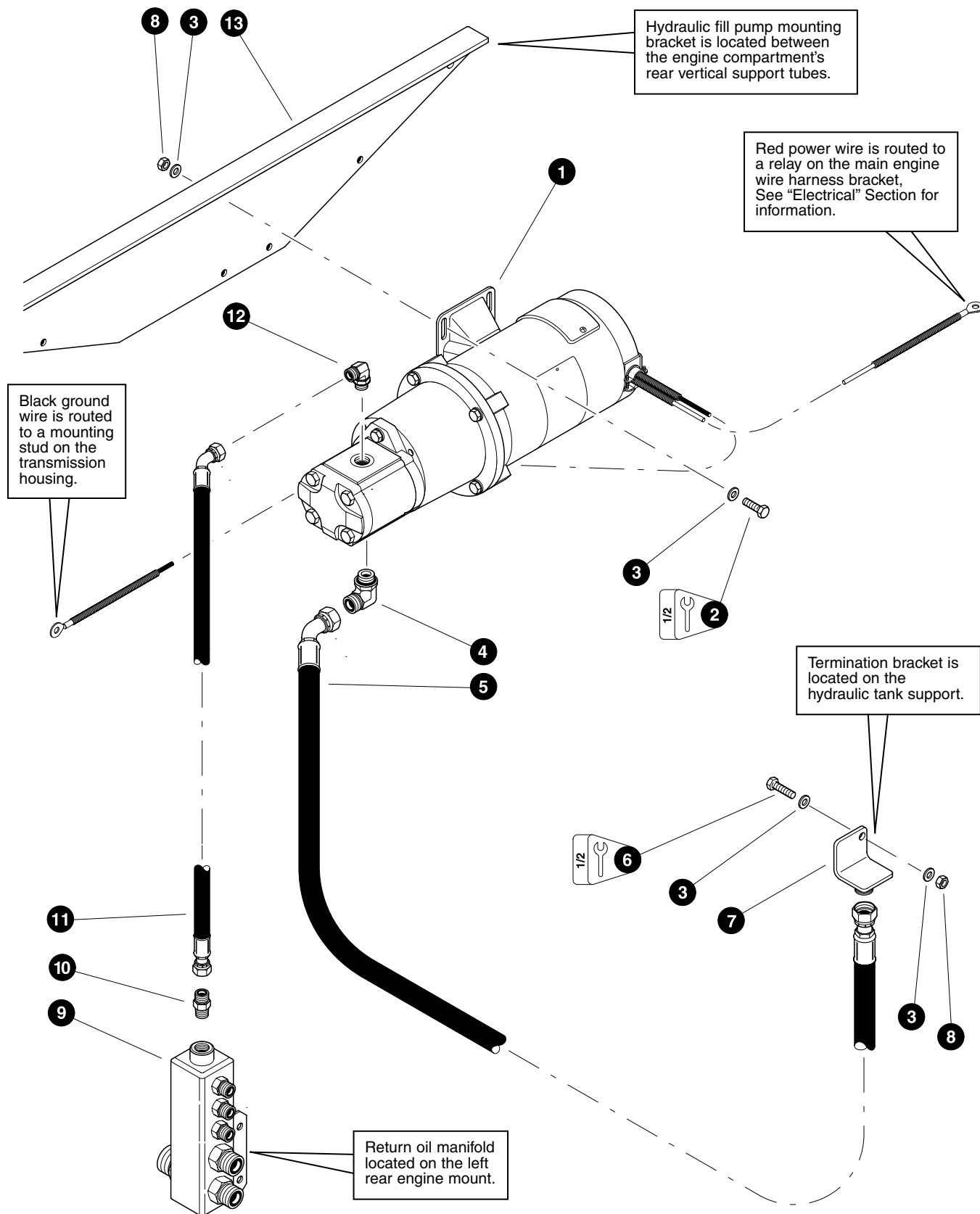


ELECTRIC HYDRAULIC OIL FILL PUMP ASSEMBLY

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	21020	1	☐	HYDRAULIC OIL FILL PUMP ASSEMBLY	
1	16800	1		PUMP, electric hydraulic oil fill	
2	16799	1		COUPLING, motor	
3	11707	6		BOLT - 3/8" x 1"	
4	15528	6		WASHER, SAE flat - 3/8"	
5	16801	1		BRACKET, motor/pump mounting	
6	16798	1		MOTOR, electric hydraulic oil fil	
7	16331	1		RELIEF, strain	
8	17226	2		CONNECTOR, butt	
9	16705	AR	✂	LOOM, split - 1/4"	
10	15005	AR	✂	WIRE - 10 gauge (<i>Black</i>)	
11	17218	1		TERMINAL, ring	
12	17208	AR	✂	WIRE, 8 gauge (<i>Red</i>)	
13	17223	1		TERMINAL, ring	

☐ Kit or Assembly - includes all items indented underneath.

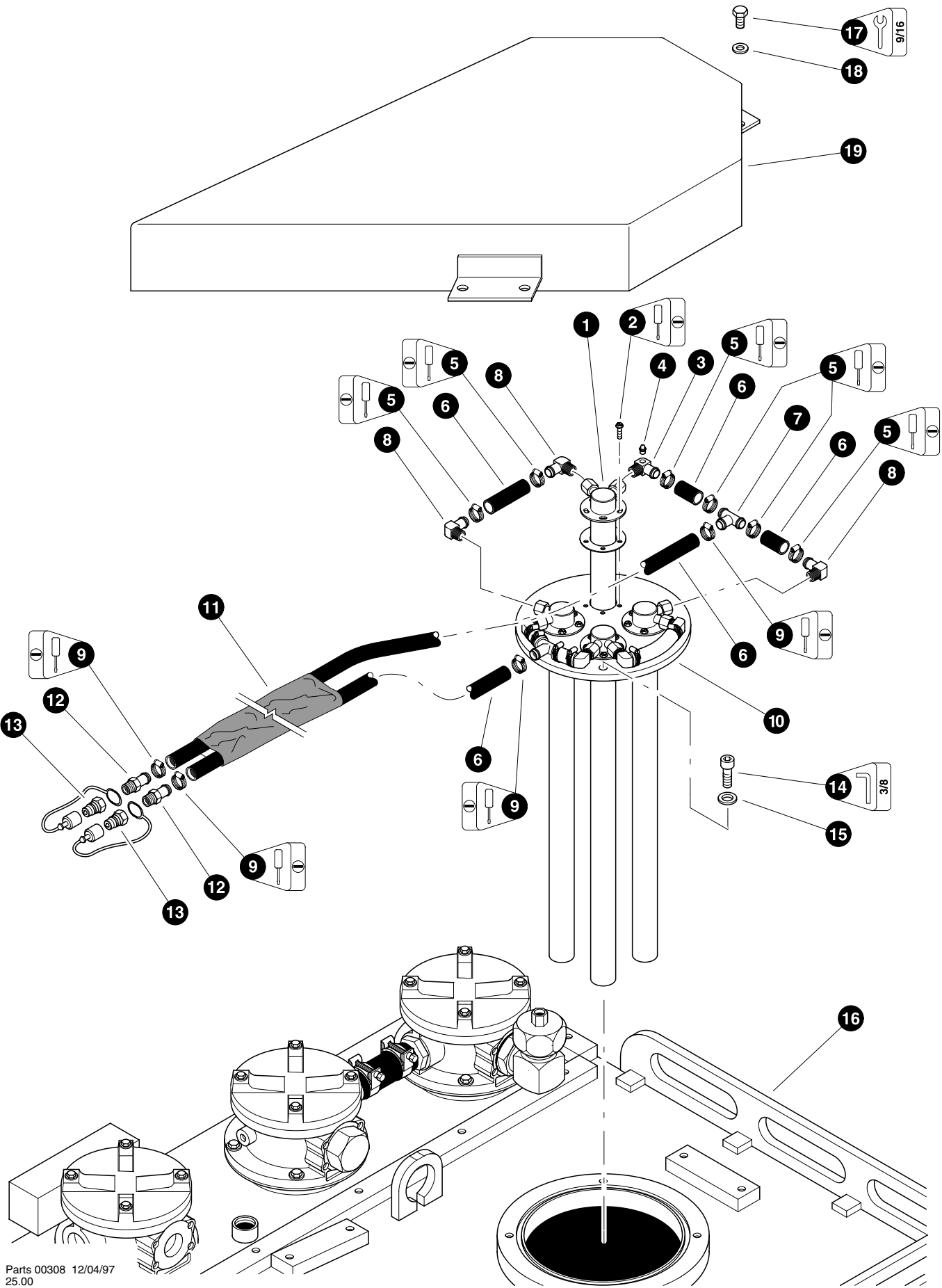
✂ Bulk material - order length required in feet or meters.



ELECTRIC HYDRAULIC OIL FILL PUMP INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	PUMP/MOTOR ASSEMBLY	E.1.16
2	15589	4		BOLT - 5/16" x 1	
3	15559	10		WASHER, SAE flat - 5/16"	
4	17688	1		ELBOW, 90° - FF1868T-1212S	
5	19262	1		HOSE ASSEMBLY - 2075-12-120S-1204 (<i>Electric hydraulic oil fill pump suction line</i>)	
6	10822	1		BOLT - 5/16" x 1-1/4"	
7	18770	1		BRACKET, hydraulic fill termination	
8	10812	5		NUT, lock - 5/16"	
9	REF.	1	✓	RETURN OIL MANIFOLD	B.2.22
10	15258	1		CONNECTOR, straight - FF2031-T-0808S	
11	19261	1		HOSE ASSEMBLY - 2022-08-080S-0804 (<i>Electric hydraulic oil fill pump to return oil manifold</i>)	
12	15154	1		ELBOW, 90° - FF1868T-0810S	
13	18455	1		BRACKET, hydraulic fill pump mounting	

✓ See referenced page for component or assembly breakdown.

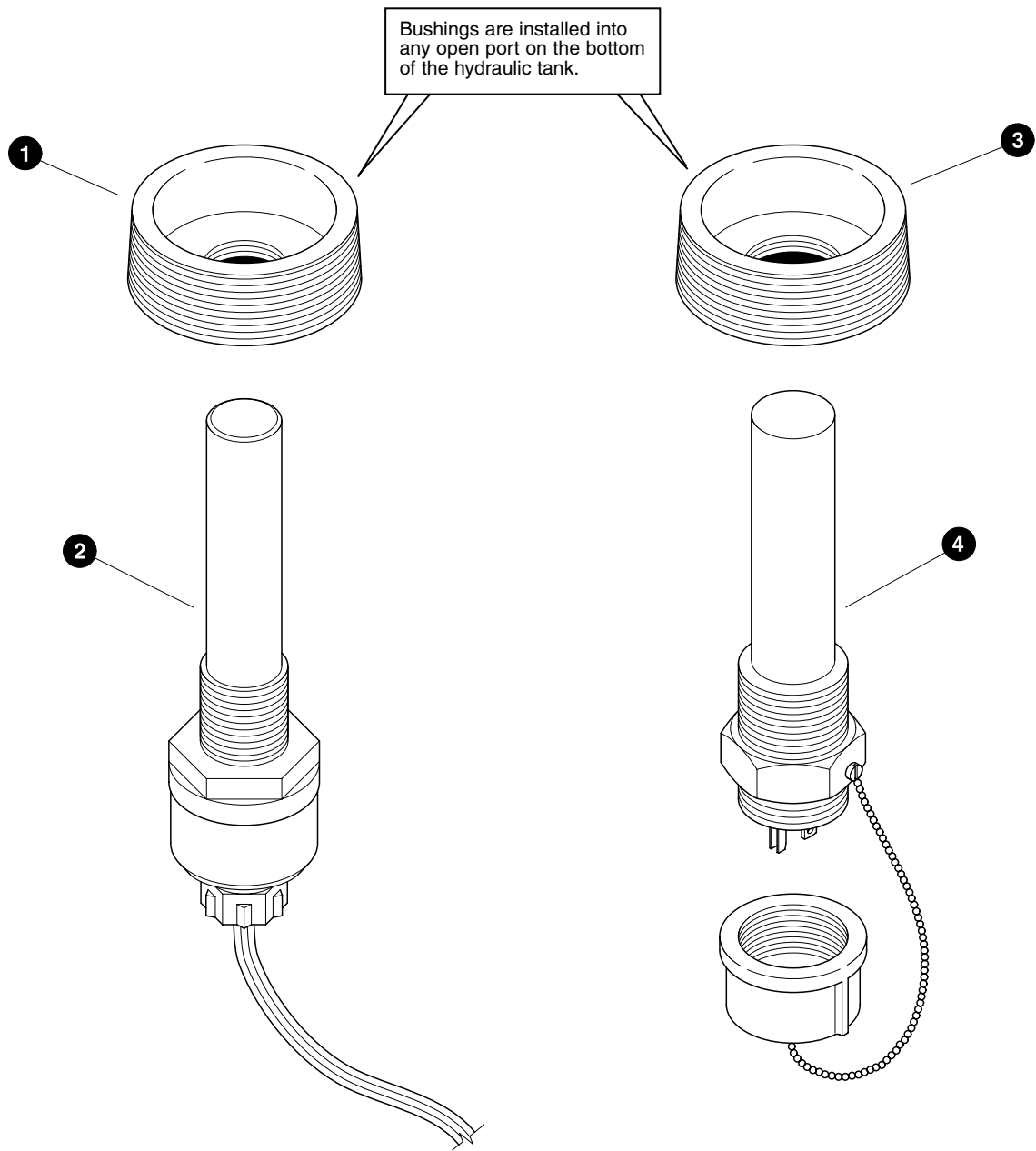


Parts 00308 12/04/97
25.00

OPTIONAL IN-TANK HYDRAULIC OIL HEATER INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	18300	1	☐	IN-TANK HYDRAULIC OIL HEATER ASSEMBLY	
1	17747	4	☐	TUBE, heater	
	18277	1		GASKET, heater tube	
2	18298	20		SCREW, slotted hex head - #10-24 x 3/4"	
3	17748	1		SCREW, bleeder	
4	18294	1		ELBOW, 90° brass (<i>Tapped for bleeder screw</i>)	
5	16256	12		CLAMP, hose - worm style - 1"	
6	16717	AR	✂	HOSE, heater - 5/8"	
7	17750	2		TEE	
8	17749	7		ELBOW, 90° brass	
9	17537	4		CLAMP, hose - worm style - 1-1/8"	
10	18188	1		COVER, access - hydraulic tank heater	
11	17572	AR	✂	SLEEVE, protective hose	
	16290	3		STRAP, tie	
12	16123	2		NIPPLE, king - 1/2"	
13	17307M	2		COUPLING, quick-disconnect - male - 1/2"	
	17323M	2		COVER, quick-disconnect - male - 1/2"	
14	18295	4		BOLT, allen head - 1/2" x 1"	
15	15534	4		WASHER, SAE flat - 1/2"	
16	REF.	1	✓	HYDRAULIC OIL TANK	E.1.2
17	15542	6		BOLT - 3/8" x 3/4"	
18	15528	6		WASHER, SAE flat - 3/8"	
19	18076	1		COVER, in-tank hydraulic oil heater	

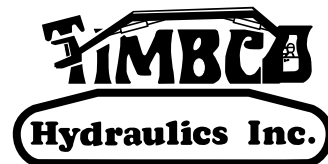
- ☐ Kit or assembly - includes all items indented underneath.
- ✂ Bulk material - order length required in feet or meters.
- ✓ See referenced page for component or assembly breakdown.



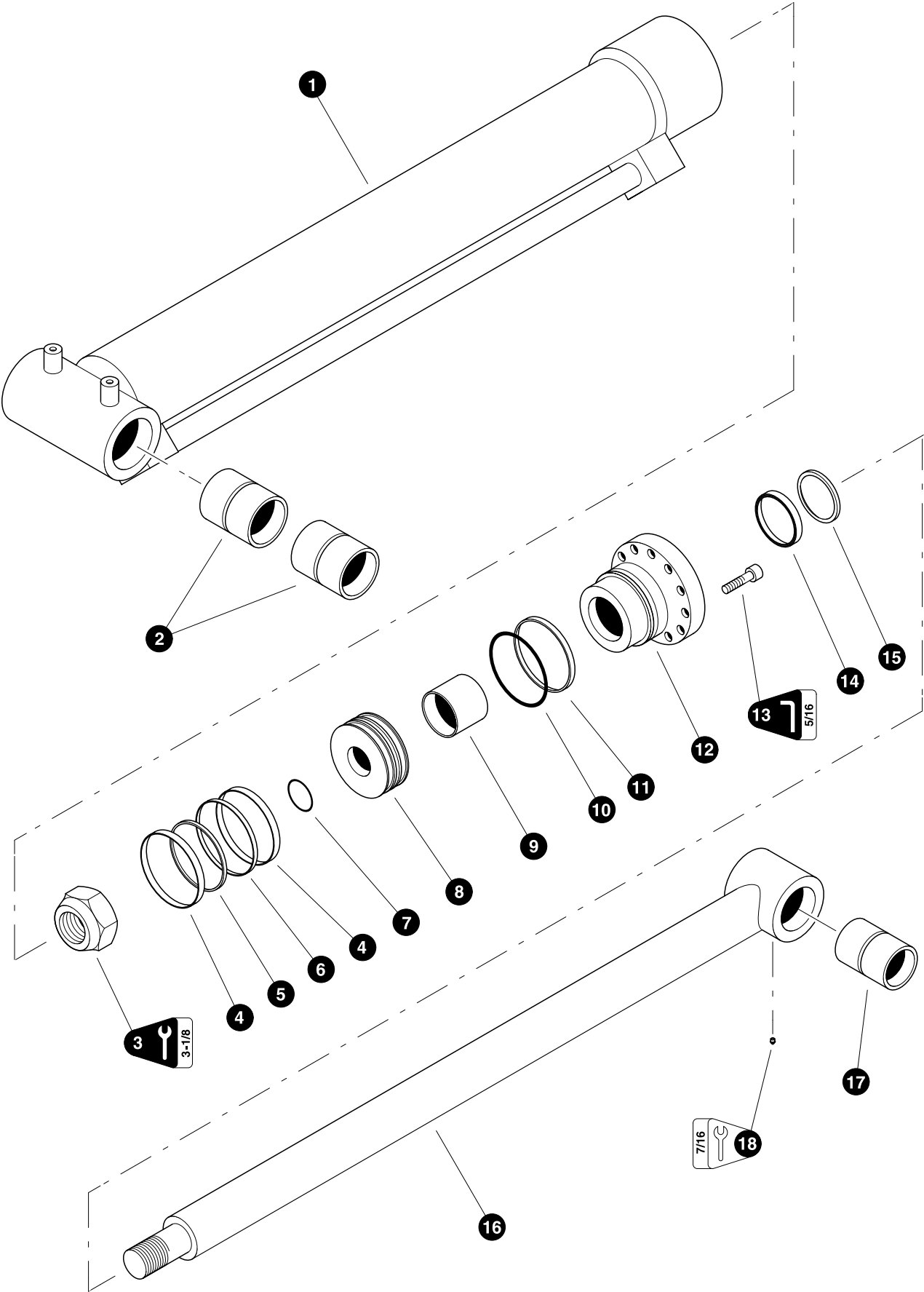
OPTIONAL IN-TANK ELECTRIC HYDRAULIC OIL HEATERS

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	19318	1	BUSHING, black reducer - 3" x 1"	
2	19286	1	HEATER ASSEMBLY (120V / 600W)	
3	20068	1	BUSHING, black reducer - 3" x 1-1/4"	
4	20069	1	HEATER ASSEMBLY (120V / 500W)	

Section E.2



Hydraulic Tank & Cylinders - Cylinders

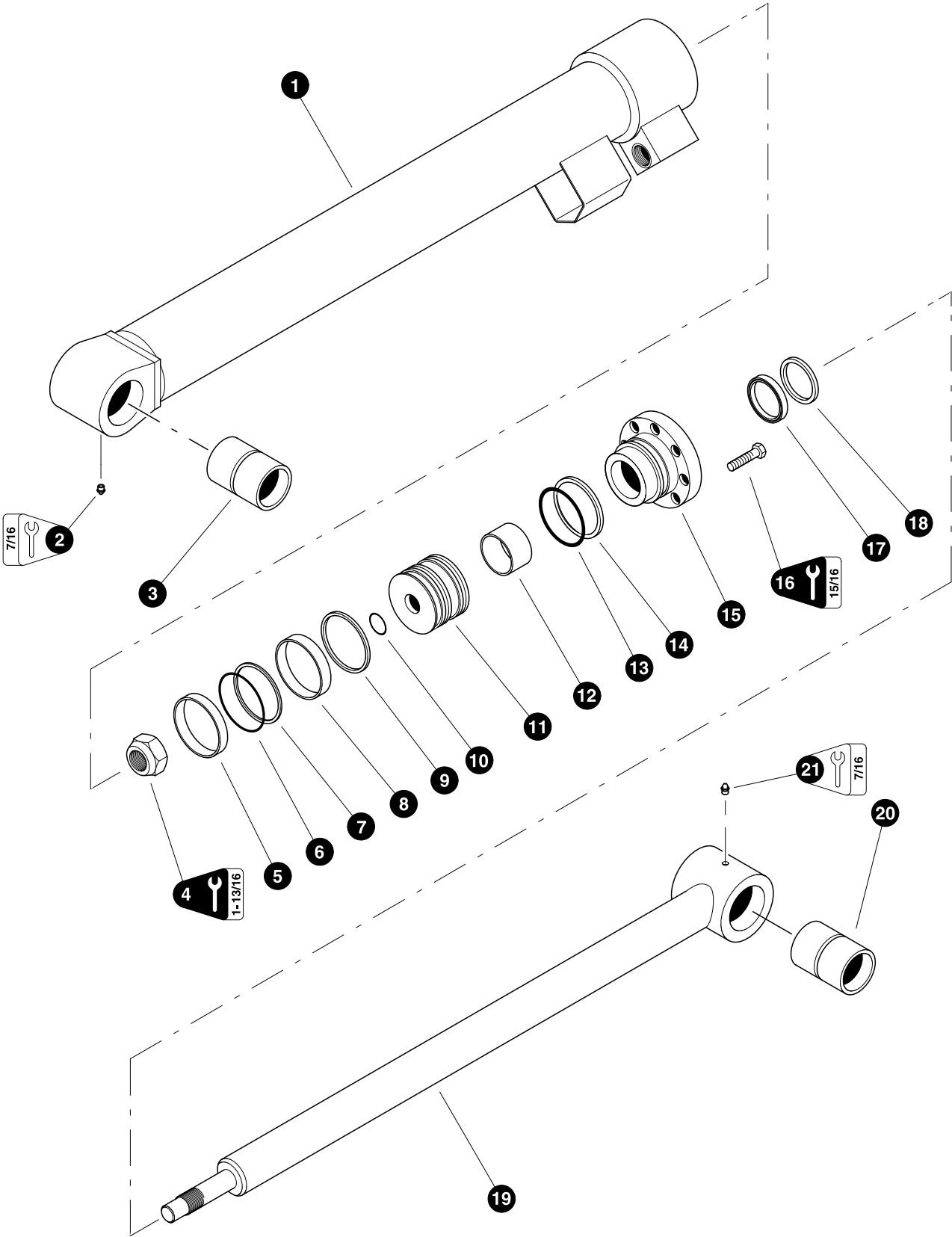


00264 09/07/97
18.75

MAIN BOOM (HOIST) CYLINDER

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	19744	1	☐	MAIN BOOM CYLINDER ASSEMBLY	
1	19225	1	☐	BARREL ASSEMBLY	
2	11706	2		BUSHING - 3" x 4-1/4"	
3	15287	1		NUT, cylinder rod - 2" NF (Torque to 2700 +/- 200 ft.lbs. (3600 +/- 265 Nm))	
4	NSS	2	★	RING, piston wear	
5	NSS	1	★	RING, piston loader	
6	NSS	1	★	RING, piston chem-cast	
7	NSS	1	★	O-RING, piston	
8	19742	1		PISTON	
9	NSS	1	★	RING, rod bearing wear	
10	NSS	1	★	O-RING, rod bearing	
11	NSS	1	★	RING, rod bearing back-up	
12	19223	1		BEARING, rod	
13	19912	12		BOLT, allen head - 5/8" x 2-1/4" (Torque to 175 ft.lbs (233 Nm))	
14	NSS	1	★	U-CUP, rod bearing	
15	NSS	1	★	WIPER, rod	
16	19222	1	☐	ROD ASSEMBLY	
17	11704	1		BUSHING - 2-1/2" x 4-1/4"	
18	10704	1		FITTING, straight grease - 1/8" pipe thread	
-	19748	1		KIT, seal repair - main boom cylinder	

- ☐ Kit or Assembly - includes all items indented underneath.
 ★ Included in seal repair kit Part # 19748.



01706 05/23/2000
18.75

STICK BOOM (JIB) CYLINDER (With 1-1/4" Piston Stem)(See Note Below)

(Used on machines PDN# 149FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	20860	1	☐	STICK BOOM CYLINDER ASSEMBLY	
1	20864	1	☐	BARREL ASSEMBLY	
2	10704	1		FITTING, straight grease - 1/8" pipe thread	
3	11704-	1		BUSHING - 2-1/2" x 4-1/4"	
4	19232	1		NUT, cylinder rod - 1-1/4" (Torque to 885 +/- 60 ft.lbs. (1175 +/- 80 Nm))	
5	NSS	1	★	RING, piston wear	
6	NSS	1	★	RING, piston loader	
7	NSS	1	★	RING, piston chem-cast	
8	NSS	1	★	RING, piston wear	
9	NSS	1	★	RING, piston seal	
10	NSS	1	★	O-RING, piston	
11	19743	1		PISTON	
12	NSS	1	★	RING, rod bearing wear	
13	NSS	1	★	O-RING, rod bearing	
14	NSS	1	★	RING, rod bearing back-up	
15	19230	1		BEARING, rod	
16	15681	8		BOLT - 5/8" x 2-1/4" (Torque to 175 ft.lbs (233 Nm))	
17	NSS	1	★	U-CUP, rod bearing	
18	NSS	1	★	WIPER, rod	
19	19229	1	☐	ROD ASSEMBLY	
20	11704	1		BUSHING - 2-1/2" x 4-1/4"	
21	10704	1		FITTING, straight grease - 1/8" pipe thread	
-	19749	1		KIT, seal repair - stick boom cylinder	

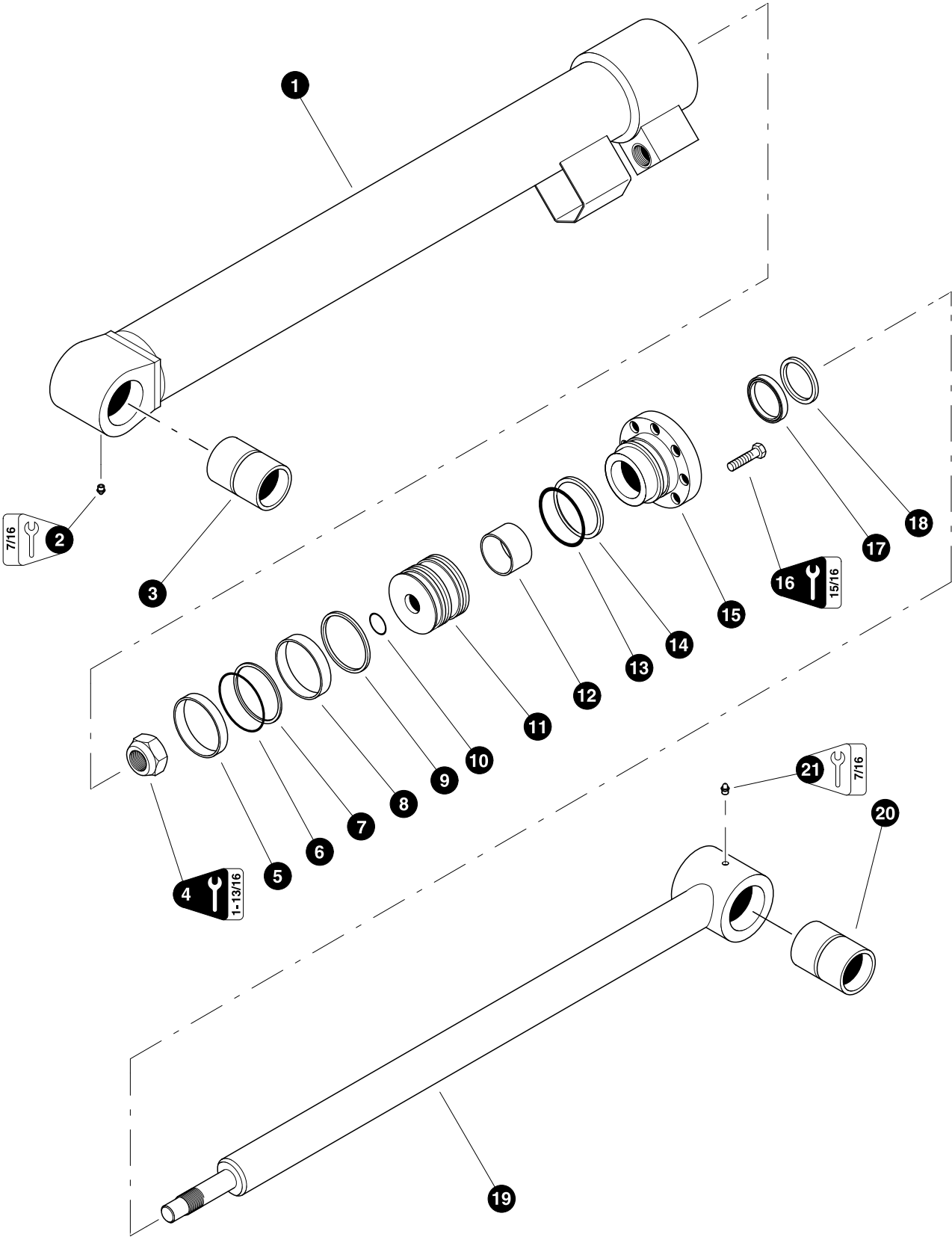
☐ Kit or Assembly - includes all items indented underneath.

★ Included in seal repair kit Part # 19749.

NOTE: There were two types of stick cylinders between August 2000 and January 2001. Stick Cylinder PN# 20860 had a 1-1/4" piston stem. Stick cylinder PN# 23303 is a newer design having a 1-3/4" piston stem. The cylinders can be identified externally by two means:

(1) The manufacturer's stamped code located near the base end port of the cylinder.
PN# 20860 cylinders are stamped 140702B, PN# 23303 cylinders are stamped 140861B.

(2) The cylinder's rod end port block. PN# 20860 cylinders have one port. PN# 23303 cylinders have two ports to allow the cylinder to be used as a tool tilt cylinder in cut-skid applications.



01706 05/23/2000
18.75

STICK BOOM (JIB) CYLINDER (With 1-3/4" Piston Stem)(See Note Below)

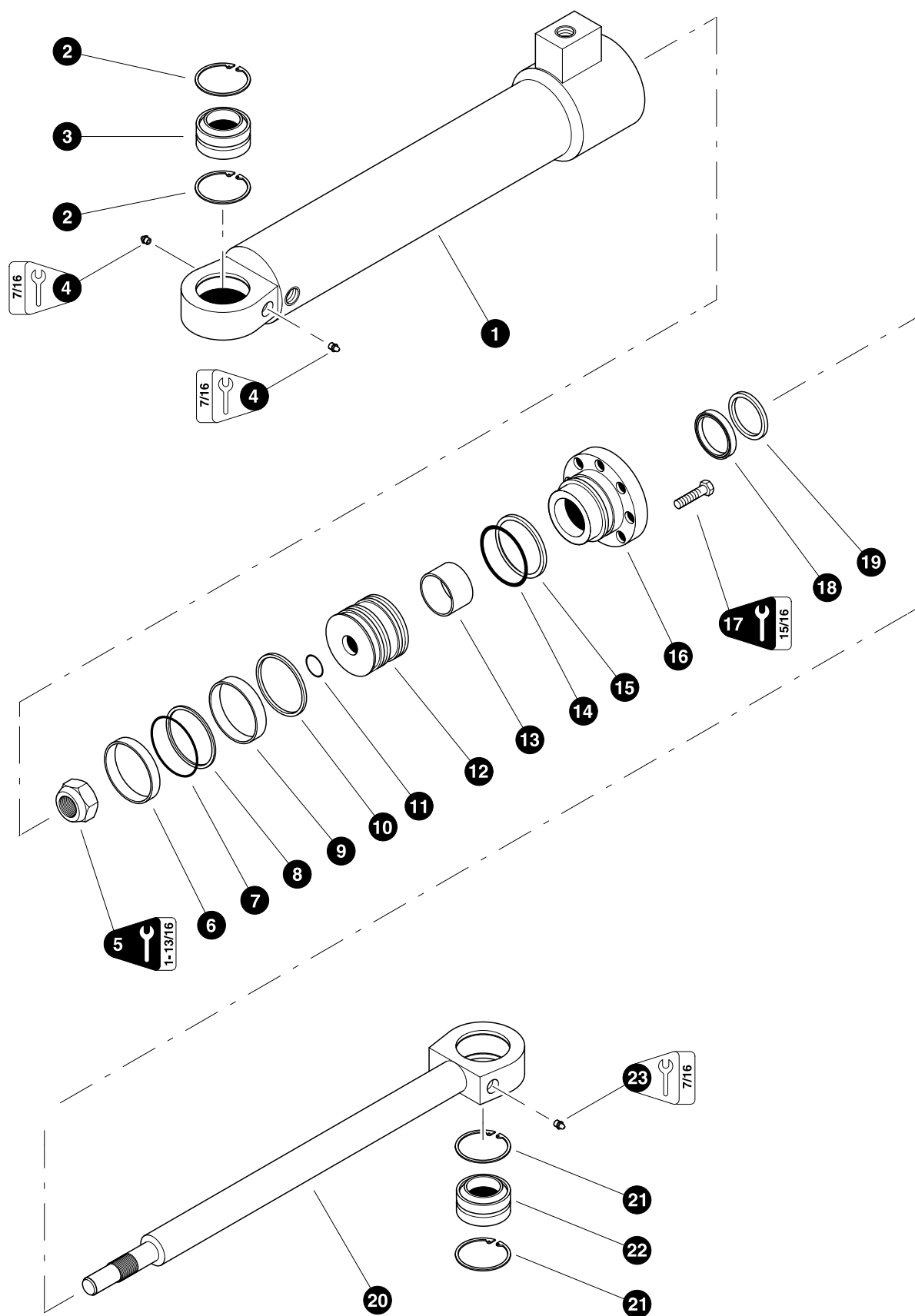
(Used on machines PDN# 150FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	23303	1	☐	STICK BOOM CYLINDER ASSEMBLY	
1	23442	1	☐	BARREL ASSEMBLY	
2	10704	1		FITTING, straight grease - 1/8" pipe thread	
3	11704	1		BUSHING - 2-1/2" x 4-1/4"	
4	15914	1		NUT, cylinder rod - 1-3/4" (Torque to 2400+/- 150 ft.lbs. (3200+/- 200 Nm))	
5	NSS	1	★	RING, piston wear	
6	NSS	1	★	RING, piston loader	
7	NSS	1	★	RING, piston chem-cast	
8	NSS	1	★	RING, piston wear	
9	NSS	1	★	RING, piston seal	
10	NSS	1	★	O-RING, piston	
11	23305	1		PISTON	
12	NSS	1	★	RING, rod bearing wear	
13	NSS	1	★	O-RING, rod bearing	
14	NSS	1	★	RING, rod bearing back-up	
15	19230	1		BEARING, rod	
16	15681	8		BOLT - 5/8" x 2-1/4" (Torque to 175 ft.lbs (233 Nm))	
17	NSS	1	★	U-CUP, rod bearing	
18	NSS	1	★	WIPER, rod	
19	23304	1	☐	ROD ASSEMBLY	
20	11704	1		BUSHING - 2-1/2" x 4-1/4"	
21	10704	1		FITTING, straight grease - 1/8" pipe thread	
-	23306	1		KIT, seal repair - stick boom cylinder	

- ☐ Kit or Assembly - includes all items indented underneath.
 ★ Included in seal repair kit Part # 23306.

NOTE: There were two types of stick cylinders between August 2000 and January 2001. Stick Cylinder PN# 20860 had a 1-1/4" piston stem. Stick cylinder PN# 23303 is a newer design having a 1-3/4" piston stem. The cylinders can be identified externally by two means:

- (1) The manufacturer's stamped code located near the base end port of the cylinder.
 PN# 20860 cylinders are stamped 140702B, PN# 23303 cylinders are stamped 140861B.
- (2) The cylinder's rod end port block. PN# 20860 cylinders have one port. PN# 23303 cylinders have two ports to allow the cylinder to be used as a tool tilt cylinder in cut-skid applications.

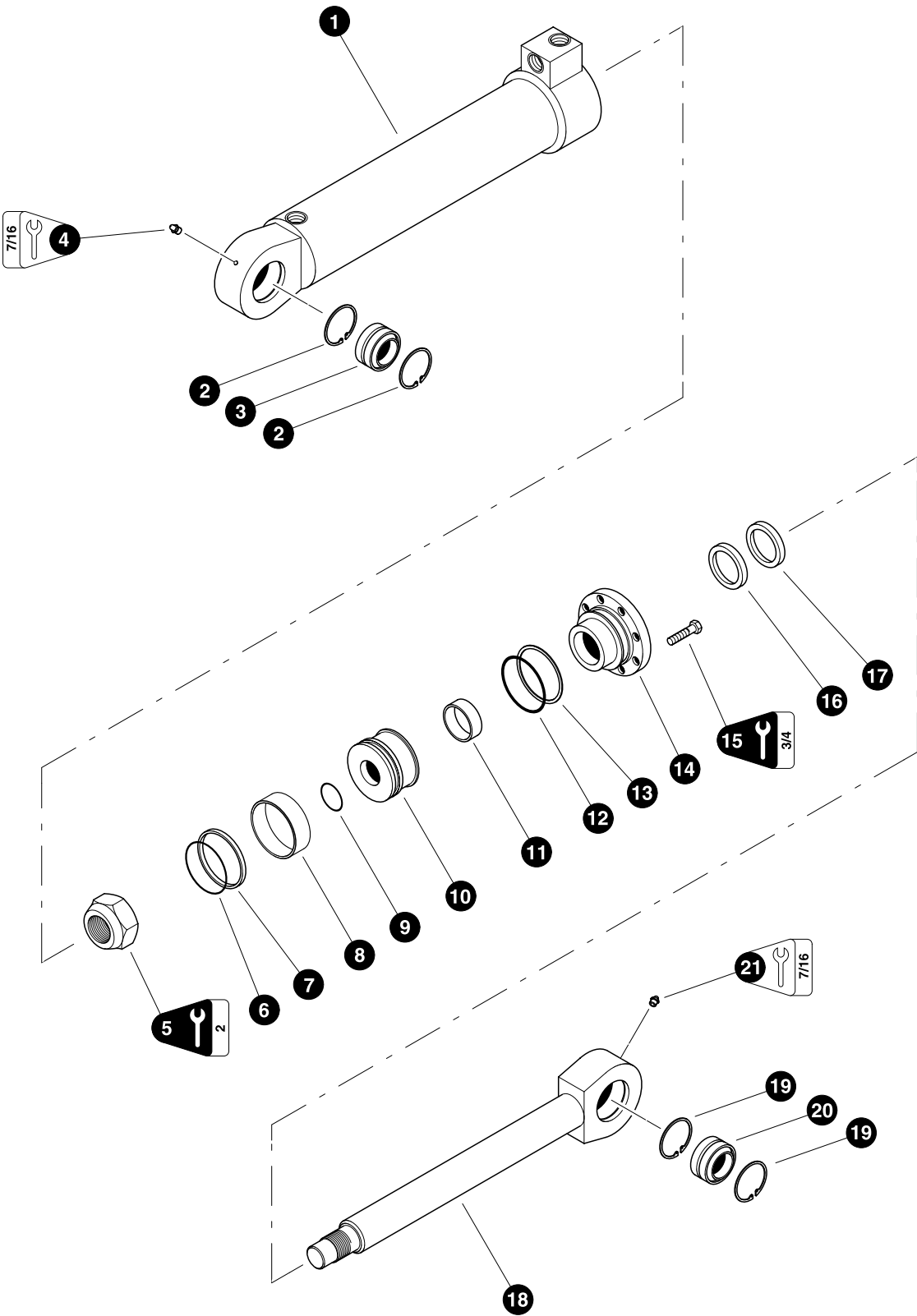


00194 01/17/97
18.75

STEER CYLINDER

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	19746	2	☐	STEER CYLINDER ASSEMBLY	
1	19238	1	☐	BARREL ASSEMBLY	
2	19916	2		RING, snap	
3	19917	1		BUSHING, spherical - 2"	
4	10704	1		FITTING, straight grease - 1/8" pipe thread	
5	19232	1		NUT, cylinder rod - 1-3/4" (Torque to 885 +/- 60 ft.lbs. (1175 +/- 80 Nm))	
6	NSS	1	★	RING, piston wear	
7	NSS	1	★	RING, piston loader	
8	NSS	1	★	RING, piston chem-cast	
9	NSS	1	★	RING, piston wear	
10	NSS	1	★	RING, piston seal	
11	NSS	1	★	O-RING, piston	
12	19743	1		PISTON	
13	NSS	1	★	RING, rod bearing wear	
14	NSS	1	★	O-RING, rod bearing	
15	NSS	1	★	RING, rod bearing back-up	
16	19236	1		BEARING, rod	
17	15681	8		BOLT - 5/8" x 2-1/4" (Torque to 175 ft.lbs (233 Nm))	
18	NSS	1	★	U-CUP, rod bearing	
19	NSS	1	★	WIPER, rod	
20	19235	1	☐	ROD ASSEMBLY	
21	19916	2		RING, snap	
22	19917	1		BUSHING, spherical - 2"	
23	10704	1		FITTING, straight grease - 1/8" pipe thread	
-	19750	1		KIT, seal repair - steer cylinder	

- ☐ Kit or Assembly - includes all items indented underneath.
 ★ Included in seal repair kit Part # 19750.

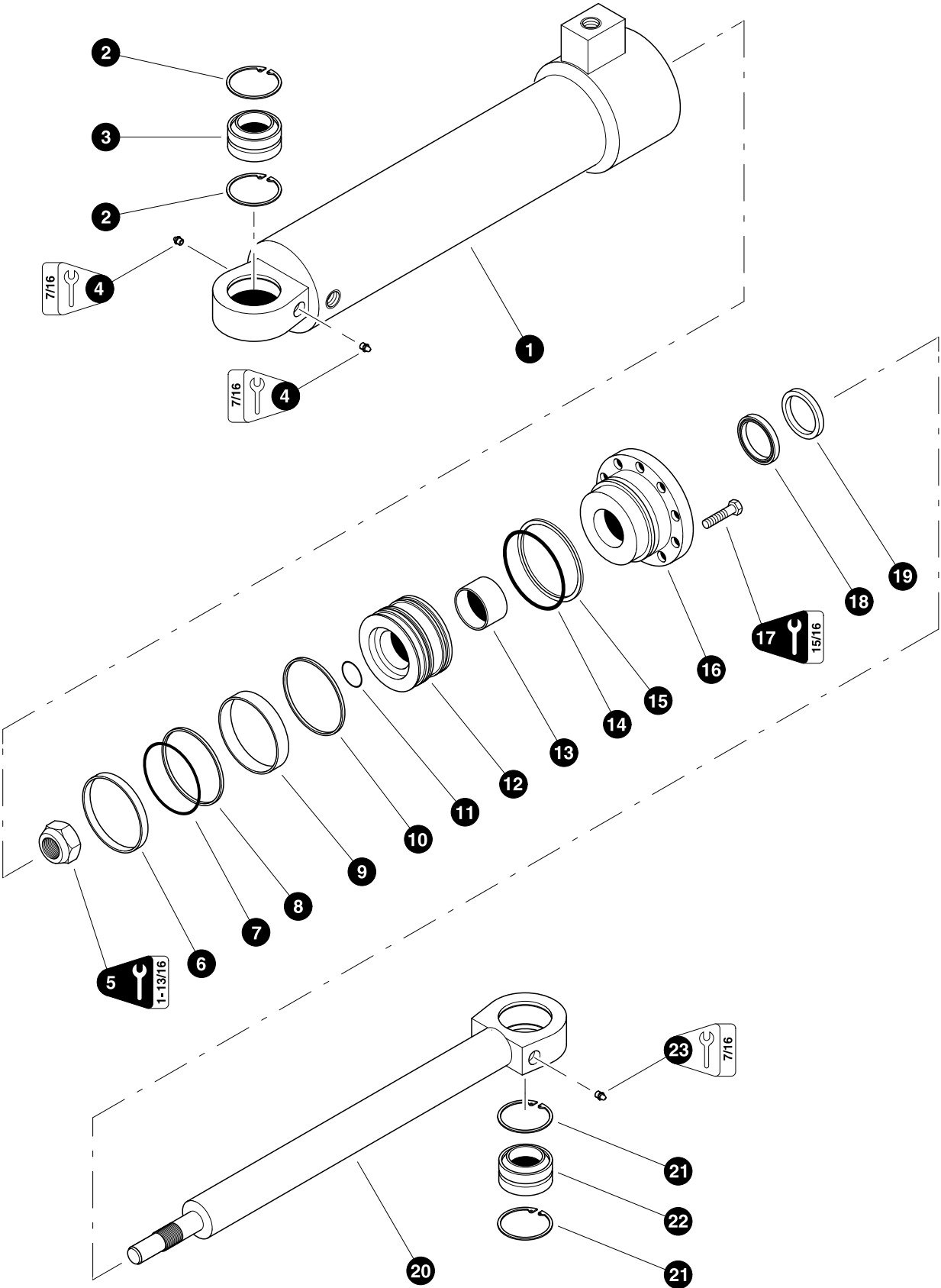


00195 01/17/97
18.75

FRAME LOCK CYLINDER

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	19747	1	☐	FRAME LOCK CYLINDER ASSEMBLY	
1	19228	1	☐	BARREL ASSEMBLY	
2	10704	1		FITTING, straight grease - 1/8" pipe thread	
3	19915	2		RING, snap	
4	19437	1		BUSHING, spherical - 1-1/2"	
5	17879	1		NUT, cylinder rod - 1-3/8" (Torque to 600 +/- 50 ft.lbs. (800 +/- 65 Nm))	
6	NSS	1	★	RING, piston loader	
7	NSS	1	★	RING, piston chem-cast	
8	NSS	1	★	RING, piston wear	
9	NSS	1	★	O-RING, piston	
10	17876	1		PISTON	
11	NSS	1	★	RING, rod bearing wear	
12	NSS	1	★	O-RING, rod bearing	
13	NSS	1	★	RING, rod bearing back-up	
14	17877	1		BEARING, rod	
15	10739	8		BOLT - 1/2" x 1-1/2" (Torque to 90 ft.lbs (120 Nm))	
16	NSS	1	★	U-CUP, rod bearing	
17	NSS	1	★	WIPER, rod	
18	19227	1	☐	ROD ASSEMBLY	
19	19915	2		RING, snap	
20	19437	1		BUSHING, spherical - 1-1/2"	
21	10704	1		FITTING, straight grease - 1/8" pipe thread	
-	19619	1		KIT, seal repair - frame lock cylinder	

- ☐ Kit or Assembly - includes all items indented underneath.
 ★ Included in seal repair kit Part # 19619.



OPTIONAL CLAM ARM CYLINDER - 5" BORE

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	19738	2	☐	CLAM ARM CYLINDER ASSEMBLY (See verification information below before ordering parts)	
1	19960	1	☐	BARREL ASSEMBLY	
2	19916	2		RING, snap	
3	19917	1		BUSHING, spherical - 2"	
4	10704	1		FITTING, straight grease - 1/8" pipe thread	
5	15914	1		NUT, cylinder rod - 1-3/4" (Torque to 885 +/- 60 ft.lbs. (1175 +/- 80 Nm))	
6	NSS	1	★	RING, piston wear	
7	NSS	1	★	RING, piston loader	
8	NSS	1	★	RING, piston chem-cast	
9	NSS	1	★	RING, piston wear	
10	NSS	1	★	RING, piston seal	
11	NSS	1	★	O-RING, piston	
12	19573	1		PISTON	
13	NSS	1	★	RING, rod bearing wear	
14	NSS	1	★	O-RING, rod bearing	
15	NSS	1	★	RING, rod bearing back-up	
16	19962	1		BEARING, rod	
17	15681	8		BOLT - 5/8" x 2-1/4" (Torque to 175 ft.lbs (233 Nm))	
18	NSS	1	★	U-CUP, rod bearing	
19	NSS	1	★	WIPER, rod	
20	19963	1	☐	ROD ASSEMBLY	
21	19916	2		RING, snap	
22	19917	1		BUSHING, spherical - 2"	
23	10704	1		FITTING, straight grease - 1/8" pipe thread	
-	19964	1		KIT, seal repair - steer/clam arm cylinder - 5"	

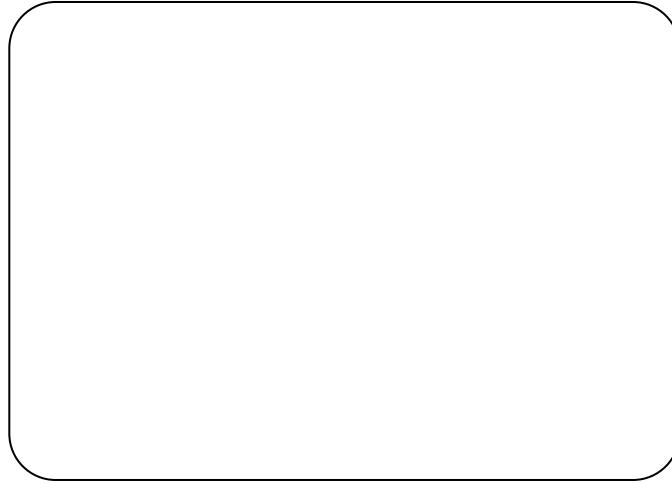
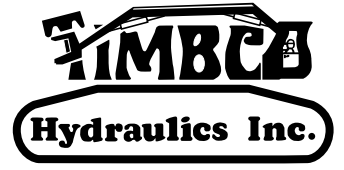
- ☐ Kit or Assembly - includes all items indented underneath.
 ★ Included in seal repair kit Part # 19964.

Verification Information:

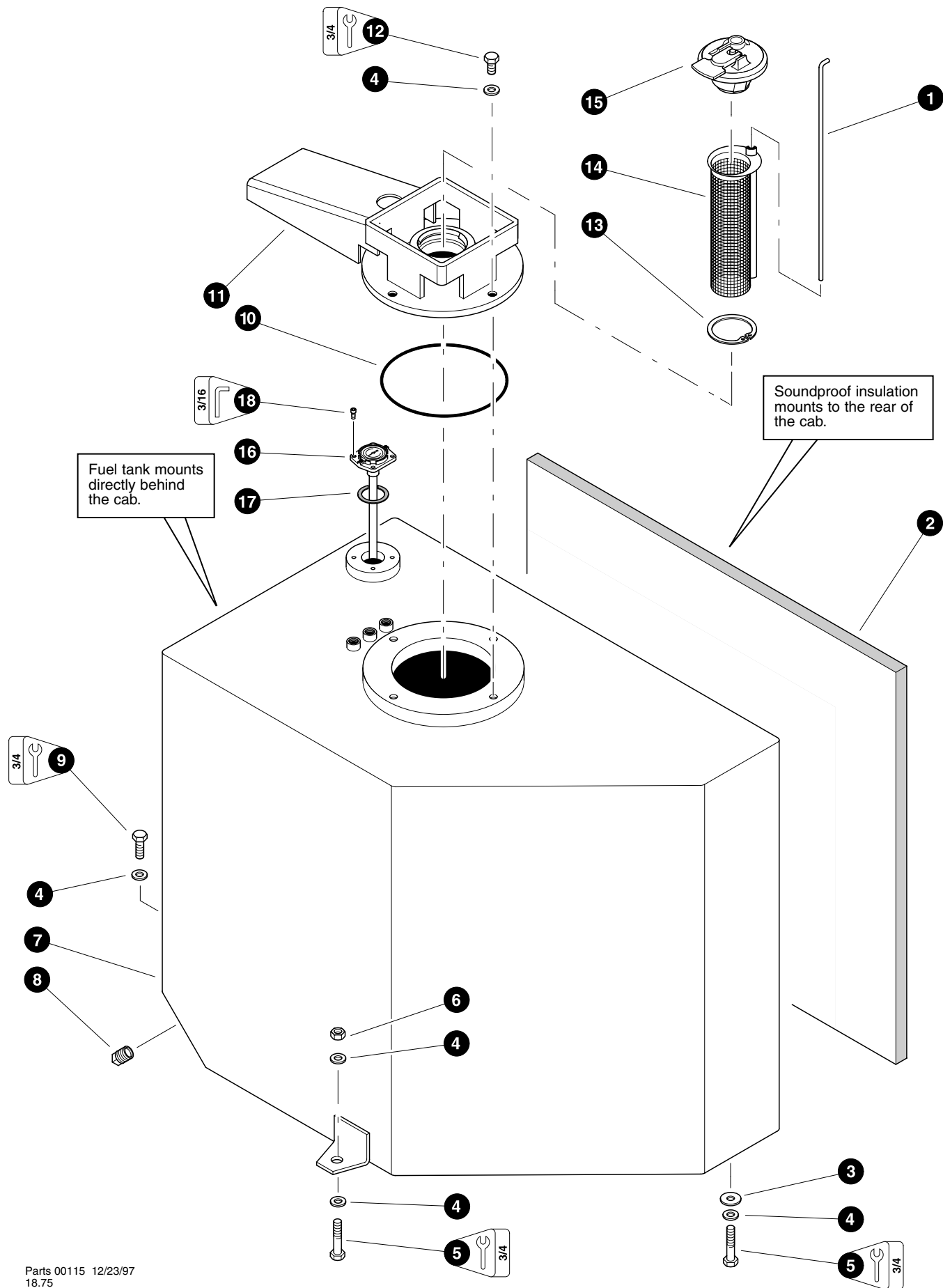
There have been two sizes of clam arm cylinders...

- A) Clam arm cylinders used in early production machines have a 5" (127 mm) O.D. diameter and are stamped "140591B" on the base of the barrel and rod assembly eye.
- B) Clam arm cylinders used in later production machines have a 6" (152 mm) O.D. diameter and are stamped "150485B" on the base of the barrel and rod assembly eye.

Section F.1



Engine Installation - Fuel System (All Engines)

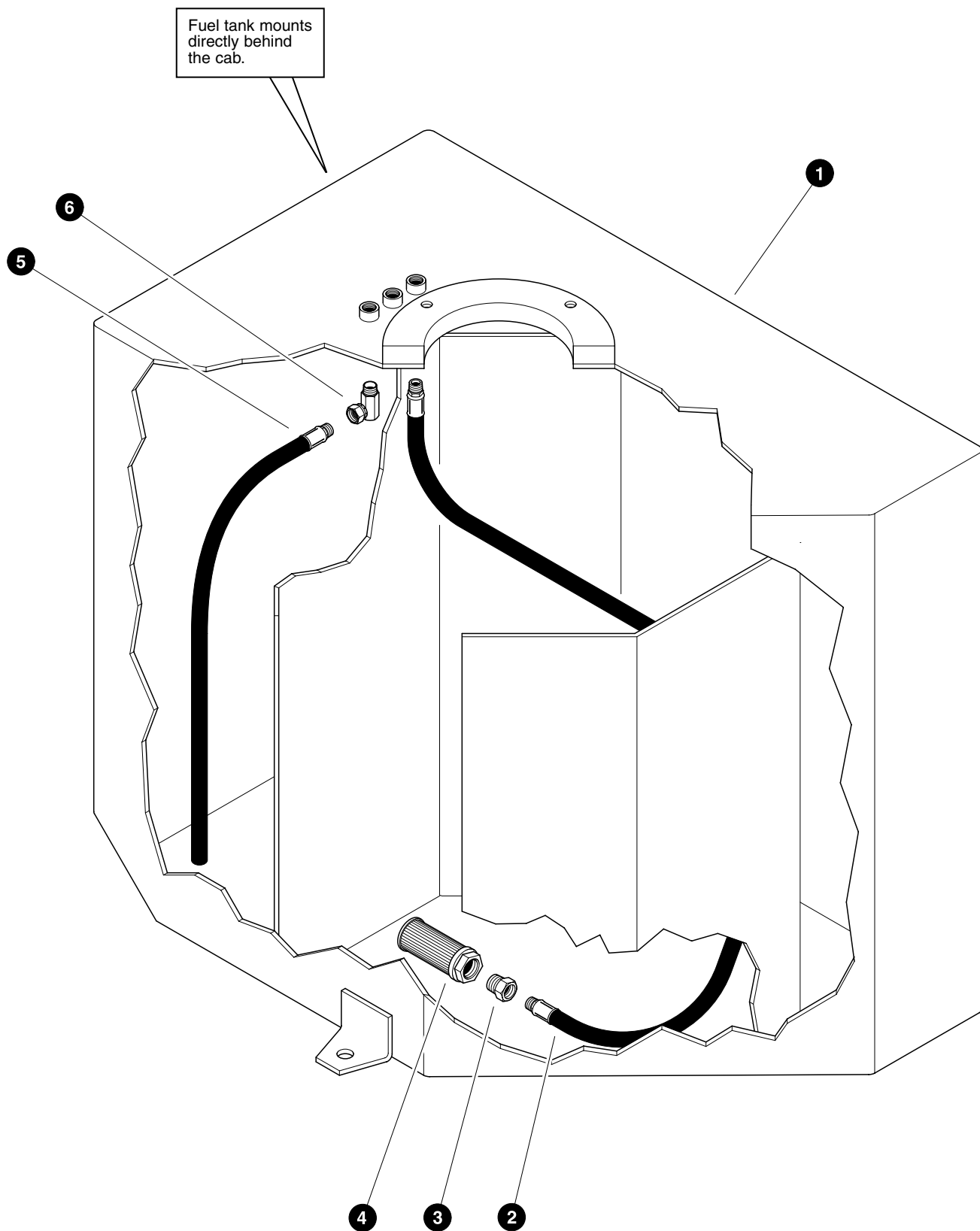


Parts 00115 12/23/97
18.75

FUEL TANK ASSEMBLY

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	17492	1	DIPSTICK - fuel level	
2	18483	1	INSULATION, soundproof - fuel tank mount	
3	10804	1	WASHER, flat - 1/2"	
4	15534	8	WASHER, SAE flat - 1/2"	
5	15565	2	BOLT - 1/2" x 2-1/2"	
6	10815	1	NUT, lock - 1/2"	
7	18480	1	TANK, fuel	
8	15515	1	PLUG - 5406-P-4	
9	10739	1	BOLT - 1/2" x 1 1/2"	
10	15600	1	O-RING - 8"	
11	18472	1	COVER, fuel tank w/adapter	
12	10783	4	BOLT - 1/2" x 1"	
13	17115	1	RING, snap - fuel strainer retainer	
14	17114	1	STRAINER, fuel system	
15	16585	1	CAP, non-locking fill	
16	19507	1	☐ GAUGE, fuel level	
17	20247	1	GASKET	
18	20248	4	BOLT, allen head - 1/4" x 1/2"	

☐ Kit or Assembly - includes all items indented underneath.



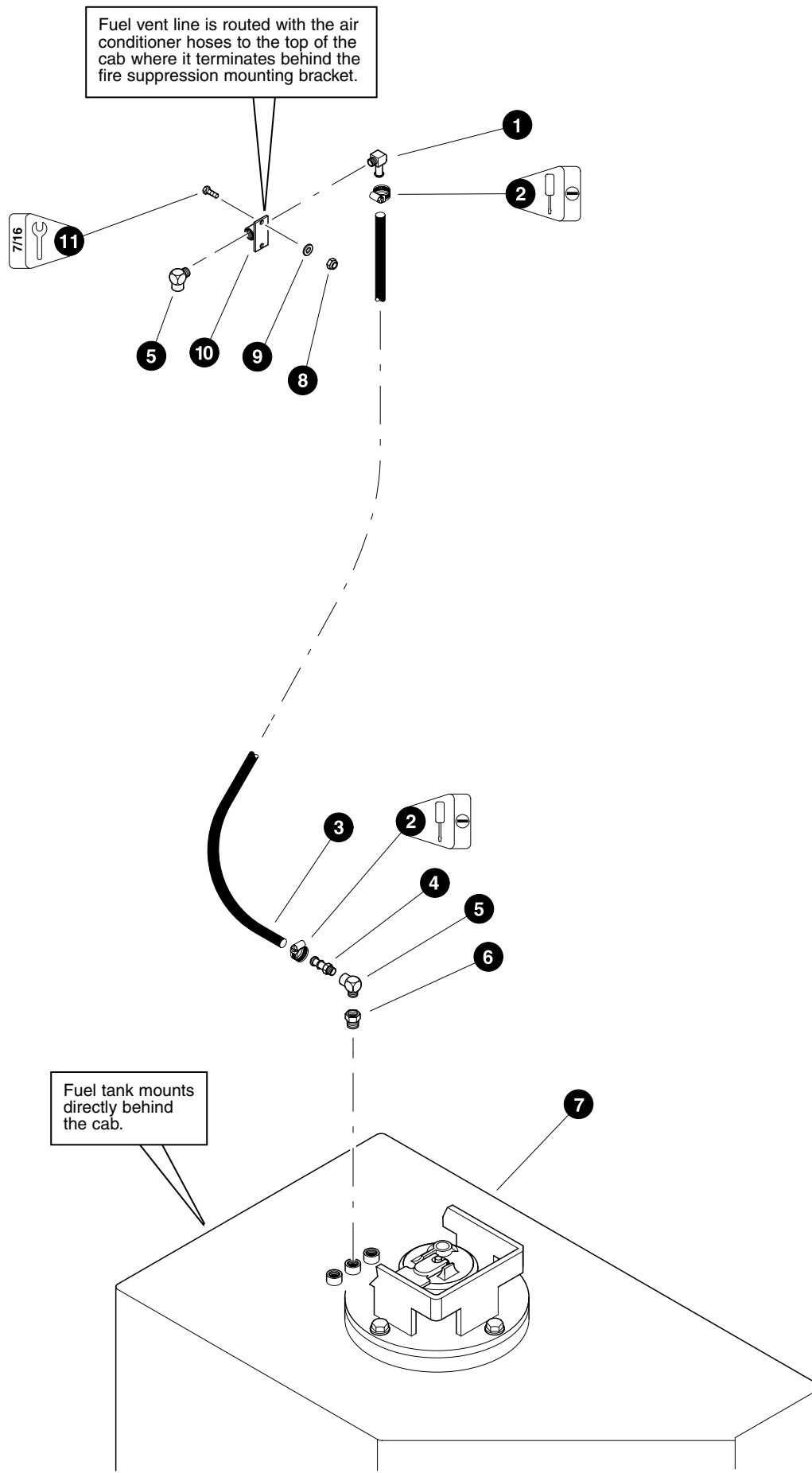
Parts 00400 01/28/98
25.00

FUEL LINES

(Supply & Return Inside Fuel Tank)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FUEL TANK	F.1.2
2	19211	1		HOSE ASSEMBLY - 2041-06-06PS-06PS (<i>Fuel supply port to inner baffle screen filter inside tank</i>)	
3	15630	1		BUSHING, reducer - 5406-8-6	
4	17271	1		FILTER, screen - fuel system	
5	20416	1		HOSE ASSEMBLY - 2030-06-06PS (<i>Fuel return port to outer baffle inside tank</i>)	
6	10394	1		ELBOW, 90° swivel - 1501-6-6	

✓ See referenced page for component or assembly breakdown.



Parts 00401 01/28/98
25.00

FUEL LINES

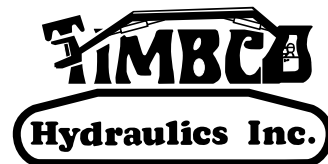
(Fuel Tank Vent)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	16202	2		CLAMP, hose - worm style - 5/8"	
2	19215	1		ELBOW, pushlock	
3	16238	AR	✂	HOSE, fuel line - 5/16"	
4	10760	1		CONNECTOR, hose	
5	16251	2		ELBOW, 90° street - 5502-4	
6	11318	2		BUSHING, reducer - 5406-6-4	
7	REF.	1	✓	FUEL TANK	F.1.2
8	15509	1		NUT, nylock - 1/4"	
9	10757	1		WASHER, SAE flat - 1/4"	
10	12222	1		BRACKET, gauge mount	
11	15576	1		BOLT - 1/4" x 1"	

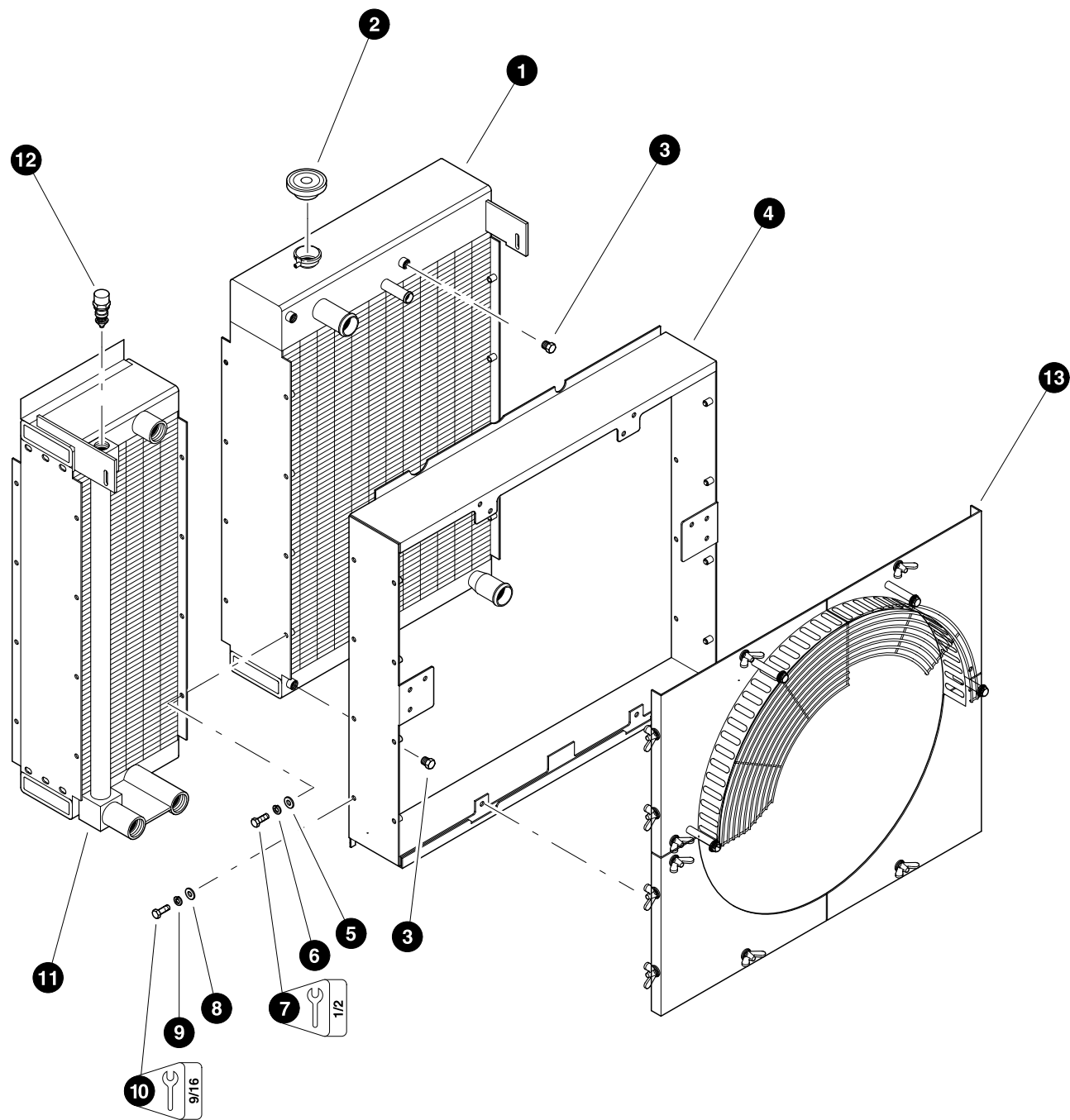
✂ Bulk material - order length required in feet or metres.

✓ See referenced page for component or assembly breakdown.

Section F.2



Engine Installation - Cooling System (All Engines)



RADIATOR/OIL COOLER ASSEMBLY (Karmazin)(See Verification Information Below)

(Used on machines PDN# 098FWD and below)

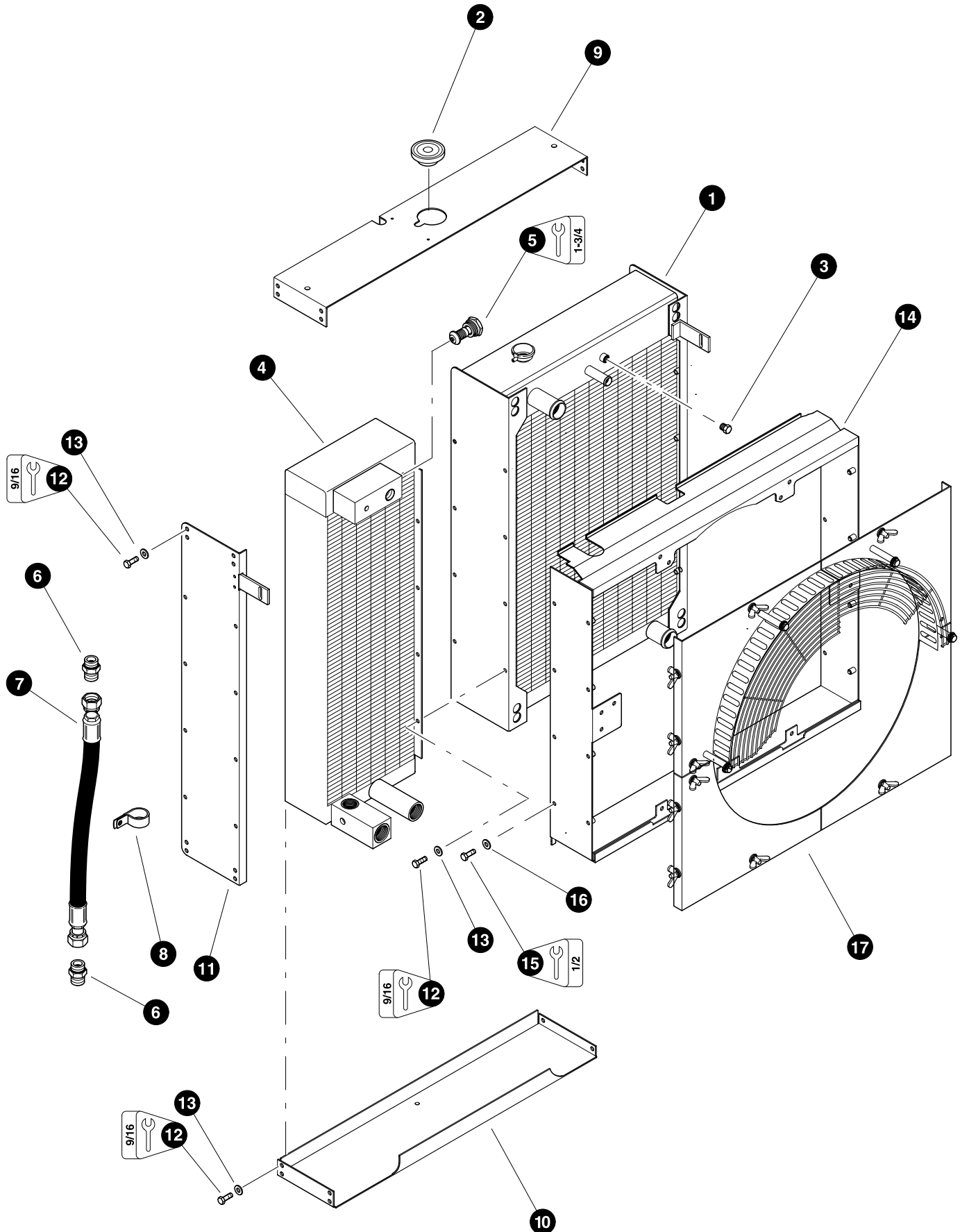
REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	18089	1	☐	RADIATOR/OIL COOLER ASSEMBLY	
1	18090	1	☐	RADIATOR	
2	15897	1		CAP, radiator	
3	15515	2		PLUG - 5406-P-4	
4	18263	1		EXTENSION, fan box	
5	15559	8		WASHER, SAE flat - 5/16"	
6	15606	8		WASHER, lock - 5/16"	
7	15589	8		BOLT - 5/16" x 1"	
8	15528	8		WASHER, SAE flat - 3/8"	
9	10701	8		WASHER, lock - 3/8"	
10	11707	8		BOLT - 3/8" x 1"	
11	17642	1	☐	OIL COOLER	
12	17934	1		VALVE, relief - thermal bypass	
13	REF.	1	☒	FAN SHROUD KIT	Varies

- ☐ Kit or Assembly - includes all items indented underneath.
☒ See referenced page for component or assembly breakdown.

Verification Information:

There are two different radiator/oil cooler assemblies used...

- A) Both radiator/oil coolers appear identical and use the same fan shroud components. However, radiator and oil cooler sections are not interchangeable. Karmazin radiator/oil coolers can be identified by the steel bypass tube that connects the lower section of the oil cooler to the upper section where the thermal bypass valve is installed.
- B) Both radiator/oil coolers appear identical and use the same fan shroud components. However, radiator and oil cooler sections are not interchangeable. Thermal Dynamic radiator/oil coolers can be identified by the braided bypass hose that connects the lower section of the oil cooler to the upper section where the thermal bypass valve is installed. See Page F.2.4 for a component breakdown.



Parts 01095 03/29/99
12.50

RADIATOR/OIL COOLER ASSEMBLY

(Thermal Dynamic - 1-1/4" Ports)(See Verification Information Below)

(Used on machines PDN# 098FWD and below)

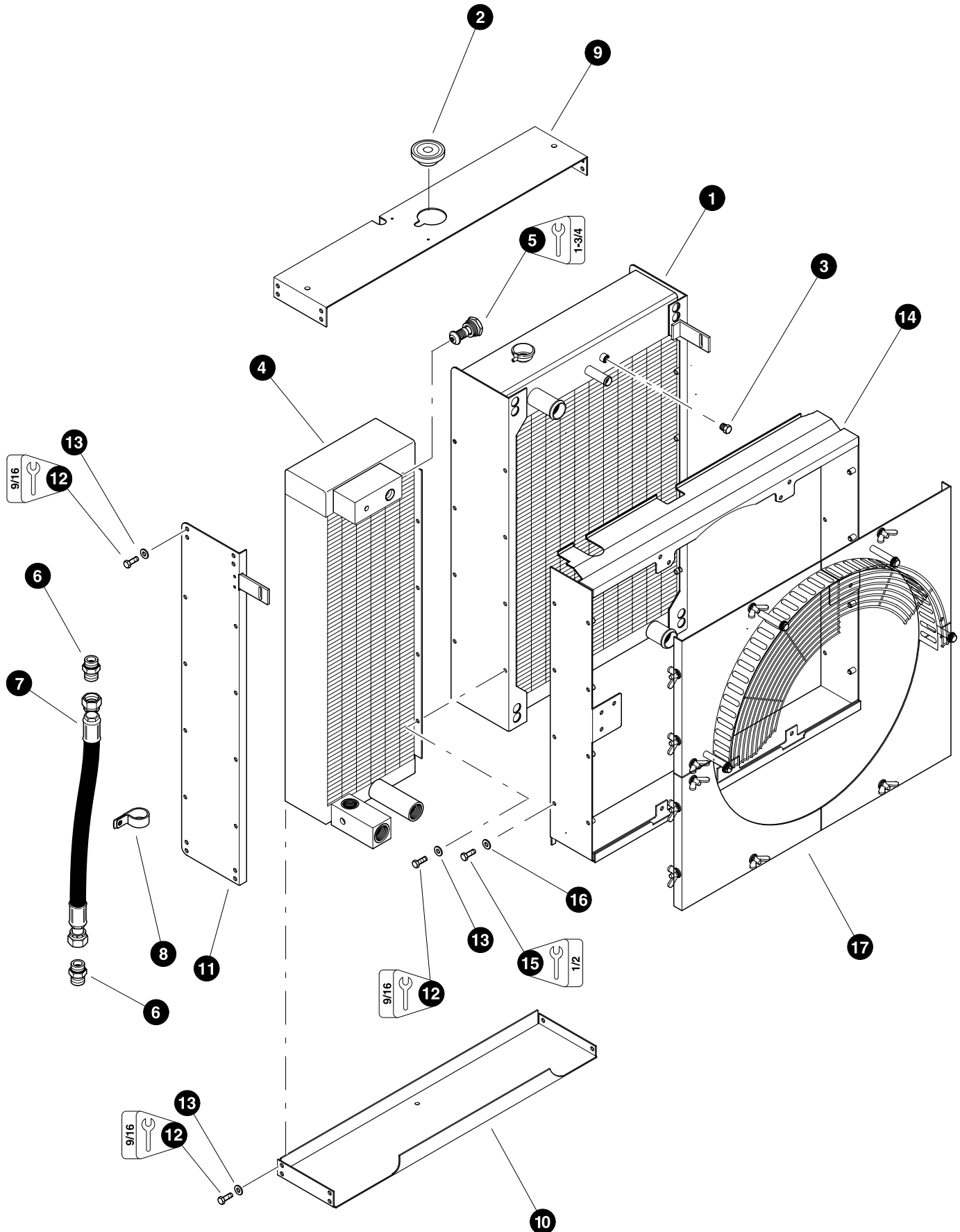
REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	22403	1	☐	RADIATOR/OIL COOLER ASSEMBLY	
1	22316	1	☐	RADIATOR	
2	15897	1		CAP, radiator	
3	15515	3		PLUG - 5406-P-4	
4	22317	1	☐	OIL COOLER	
5	22318	1		VALVE, relief - thermal bypass	
6	22319	2		CONNECTOR, straight - thermal bypass	
7	22320	1		HOSE ASSEMBLY - thermal bypass	
8	17257	1		CLAMP, coated hose - 1-1/2"	
9	22321	1		BRACKET, frame - top	
10	22322	1		BRACKET, frame - bottom	
11	22323	1		BRACKET, frame - side	
12	15542	22		BOLT - 3/8" x 3/4"	
13	10802	22		WASHER, flat - 3/8"	
14	22324	1		EXTENSION, fan box	
15	15605	8		BOLT - 5/16" x 3/4"	
16	10801	8		WASHER, flat - 5/16"	
17	REF.	1	☒	FAN SHROUD KIT	Varies

- ☐ Kit or Assembly - includes all items indented underneath.
- ☒ See referenced page for component or assembly breakdown.

Verification Information:

There are two different radiator/oil cooler assemblies used...

- A) Both radiator/oil coolers appear identical and use the same fan shroud components. However, radiator and oil cooler sections are not interchangeable. Karmazin radiator/oil coolers can be identified by the steel bypass tube that connects the lower section of the oil cooler to the upper section where the thermal bypass valve is installed. See Page F.2.2 for a component breakdown.
- B) Both radiator/oil coolers appear identical and use the same fan shroud components. However, radiator and oil cooler sections are not interchangeable. Thermal Dynamic radiator/oil coolers can be identified by the braided bypass hose that connects the lower section of the oil cooler to the upper section where the thermal bypass valve is installed.



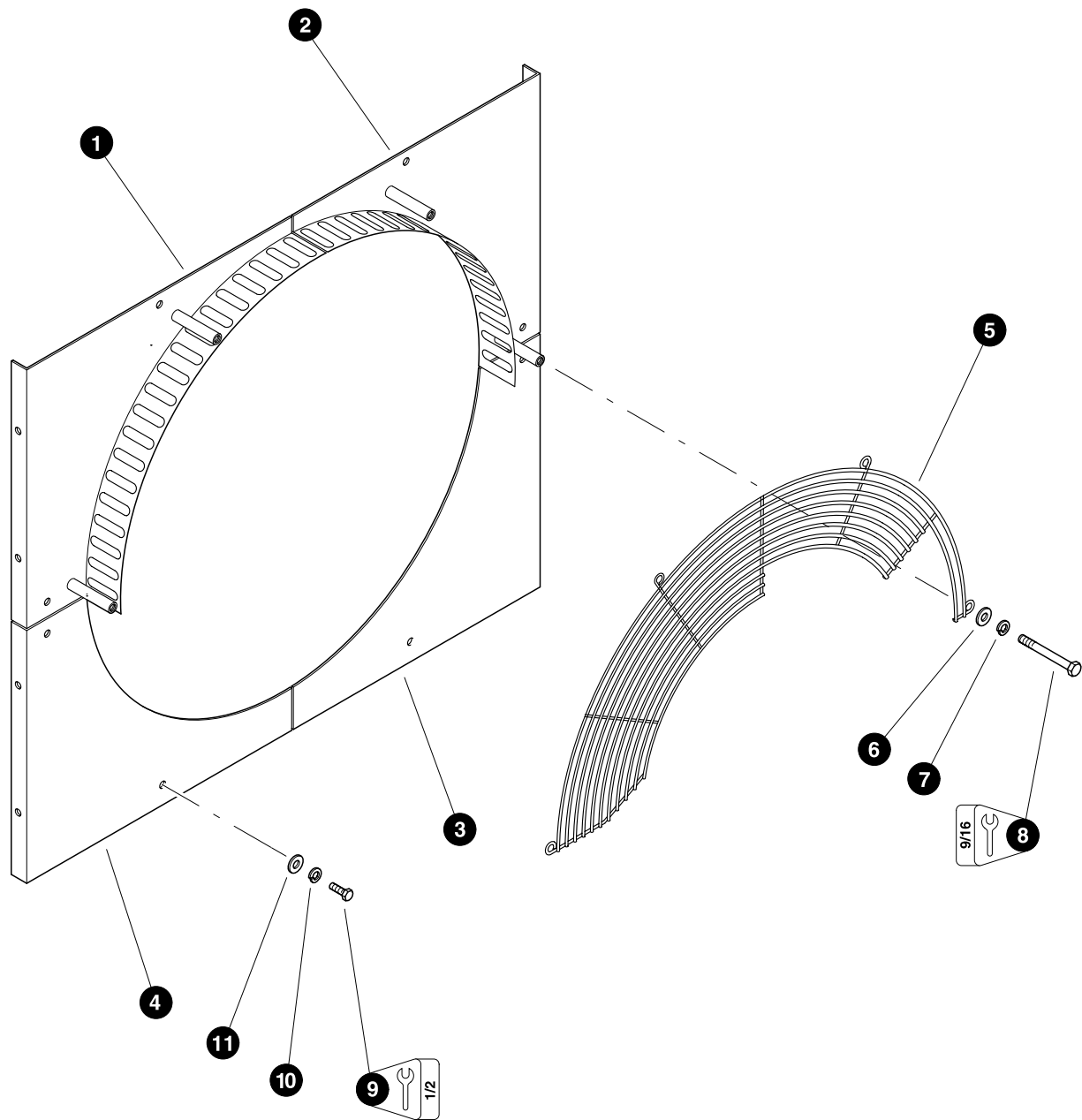
Parts 01095 03/29/99
12.50

RADIATOR/OIL COOLER ASSEMBLY (Thermal Dynamic - 1-1/2" Ports)

(Used on machines PDN# 099FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	22403	1	☐	RADIATOR/OIL COOLER ASSEMBLY	
1	24057	1	☐	RADIATOR - GTI (1.25" port)	
2	15897	1		CAP, radiator	
3	15515	3		PLUG - 5406-P-4	
4	22489	1	☐	OIL COOLER	
5	22491	1		VALVE, relief - thermal bypass	
6	22319	2		CONNECTOR, straight - thermal bypass	
7	22320	1		HOSE ASSEMBLY - thermal bypass	
8	17257	1		CLAMP, coated hose - 1-1/2"	
9	22321	1		BRACKET, frame - top	
10	22322	1		BRACKET, frame - bottom	
11	22323	1		BRACKET, frame - side	
12	15542	22		BOLT - 3/8" x 3/4"	
13	10802	22		WASHER, flat - 3/8"	
14	22490	1		EXTENSION, fan box	
15	15605	8		BOLT - 5/16" x 3/4"	
16	10801	8		WASHER, flat - 5/16"	
17	REF.	1	☒	FAN SHROUD KIT	Varies

- ☐ Kit or Assembly - includes all items indented underneath.
☒ See referenced page for component or assembly breakdown.



Parts 00780 10/20/98
18.75

FAN SHROUDS

(Cummins C8.3-C Engines)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	18087	1	☐	FAN SHROUD KIT (26" [66 cm] diameter engine fan) (See verification information below before ordering parts)	
1	18258	1		SHROUD, radiator - LH upper	
2	18259	1		SHROUD, radiator - RH upper	
3	18261	1		SHROUD, radiator - RH lower	
4	18260	1		SHROUD, radiator - LH lower	
5	18262	1		GUARD, fan	
-	21199	1	☐	FAN SHROUD KIT (28" [71 cm] diameter engine fan) (See verification information below before ordering parts)	
1	21200	1		SHROUD, radiator - LH upper	
2	21201	1		SHROUD, radiator - RH upper	
3	21203	1		SHROUD, radiator - RH lower	
4	21202	1		SHROUD, radiator - LH lower	
5	18262	1		GUARD, fan	
6	15528	4		WASHER, SAE flat - 3/8"	
7	10701	4		WASHER, lock - 3/8"	
8	10713	4		BOLT - 3/8" x 3-1/2"	
9	15589	16		BOLT - 5/16" x 1"	
10	15606	16		WASHER, lock - 5/16"	
11	15559	16		WASHER, SAE flat - 5/16"	

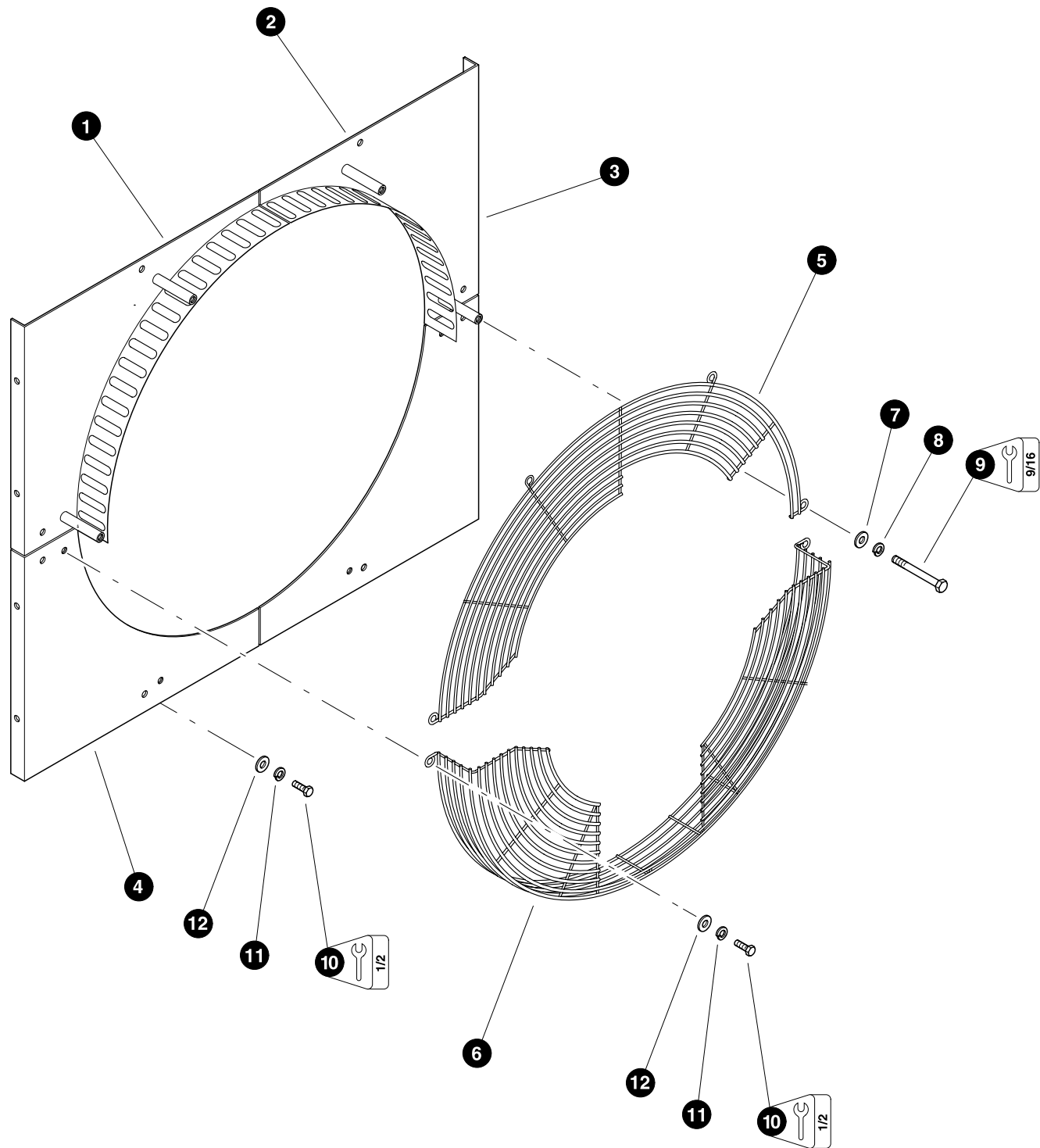
☐ Kit or Assembly - includes all items indented underneath.

Verification Information:

There are two sizes of engine fans used...

A) Machines built before May 1, 1998 (approximate) were equipped with 26" (66 cm) diameter engine fans.

B) Machines built after May 1, 1998 (approximate) were equipped with 28" (71 cm) diameter engine fans.



Parts 00782 10/21/98
18.75

FAN SHROUDS

(Caterpillar 3116T & 3126T Engines)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	22661	1	☐	FAN SHROUD KIT (26" [66 cm] diameter engine fan) (See verification information below before ordering parts)	
1	19046	1		SHROUD, radiator - LH upper	
2	19047	1		SHROUD, radiator - RH upper	
3	22663	1		SHROUD, radiator - RH lower	
4	22662	1		SHROUD, radiator - LH lower	
5	18262	1		GUARD, fan - upper	
6	21214	1		GUARD, fan - lower	
-	21199	1	☐	FAN SHROUD KIT (28" [71 cm] diameter engine fan) (See verification information below before ordering parts)	
1	21200	1		SHROUD, radiator - LH upper	
2	21201	1		SHROUD, radiator - RH upper	
3	21203	1		SHROUD, radiator - RH lower	
4	21202	1		SHROUD, radiator - LH lower	
5	18262	1		GUARD, fan - upper	
6	21214	1		GUARD, fan - lower	
7	15528	4		WASHER, SAE flat - 3/8"	
8	10701	4		WASHER, lock - 3/8"	
9	10713	4		BOLT - 3/8" x 3-1/2"	
10	15589	20		BOLT - 5/16" x 1"	
11	15606	20		WASHER, lock - 5/16"	
12	15559	20		WASHER, SAE flat - 5/16"	

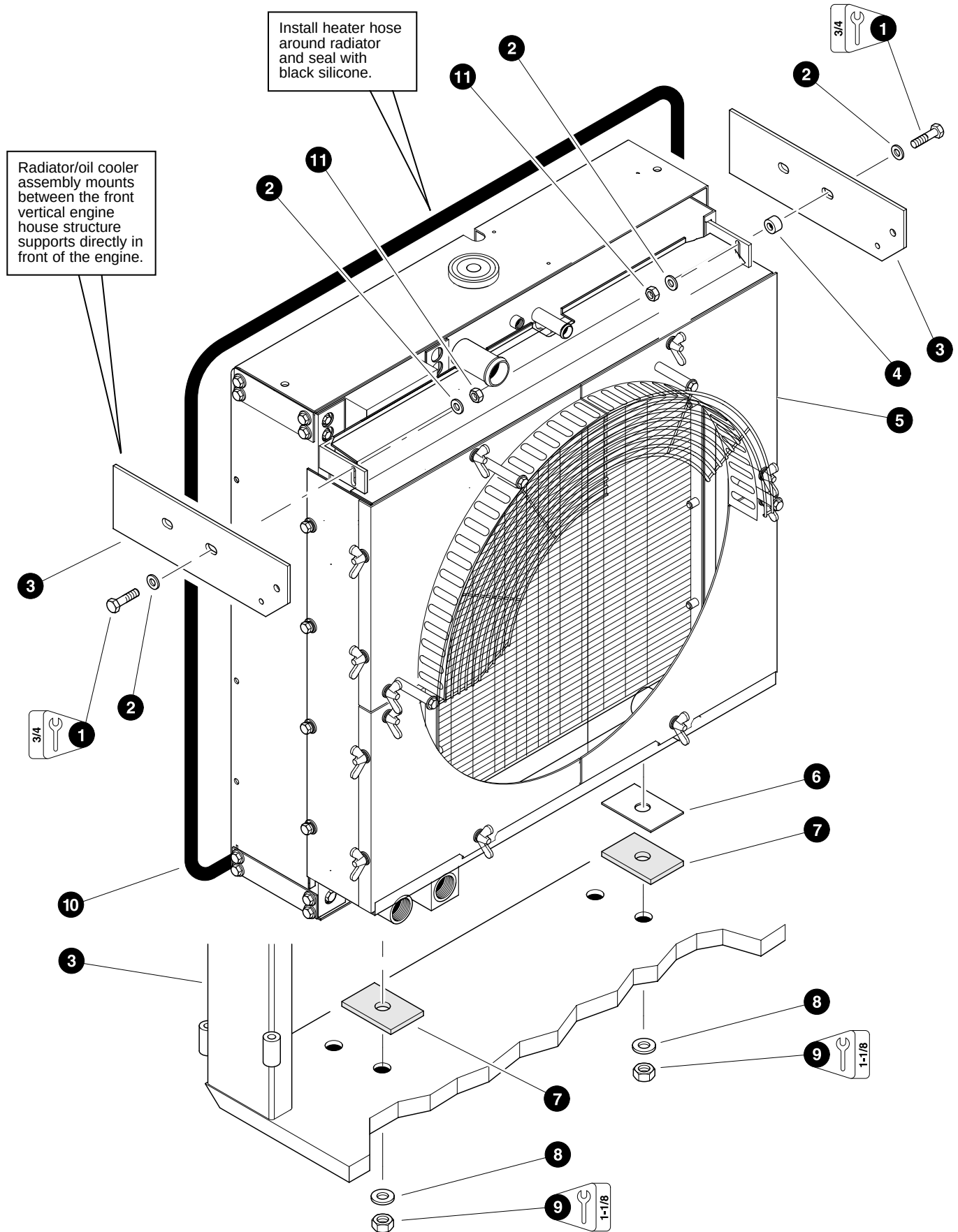
☐ Kit or Assembly - includes all items indented underneath.

Verification Information:

There are two sizes of engine fans used...

A) Machines built before May 1, 1998 (approximate) were equipped with 26" (66 cm) diameter engine fans.

B) Machines built after May 1, 1998 (approximate) were equipped with 28" (71 cm) diameter engine fans.



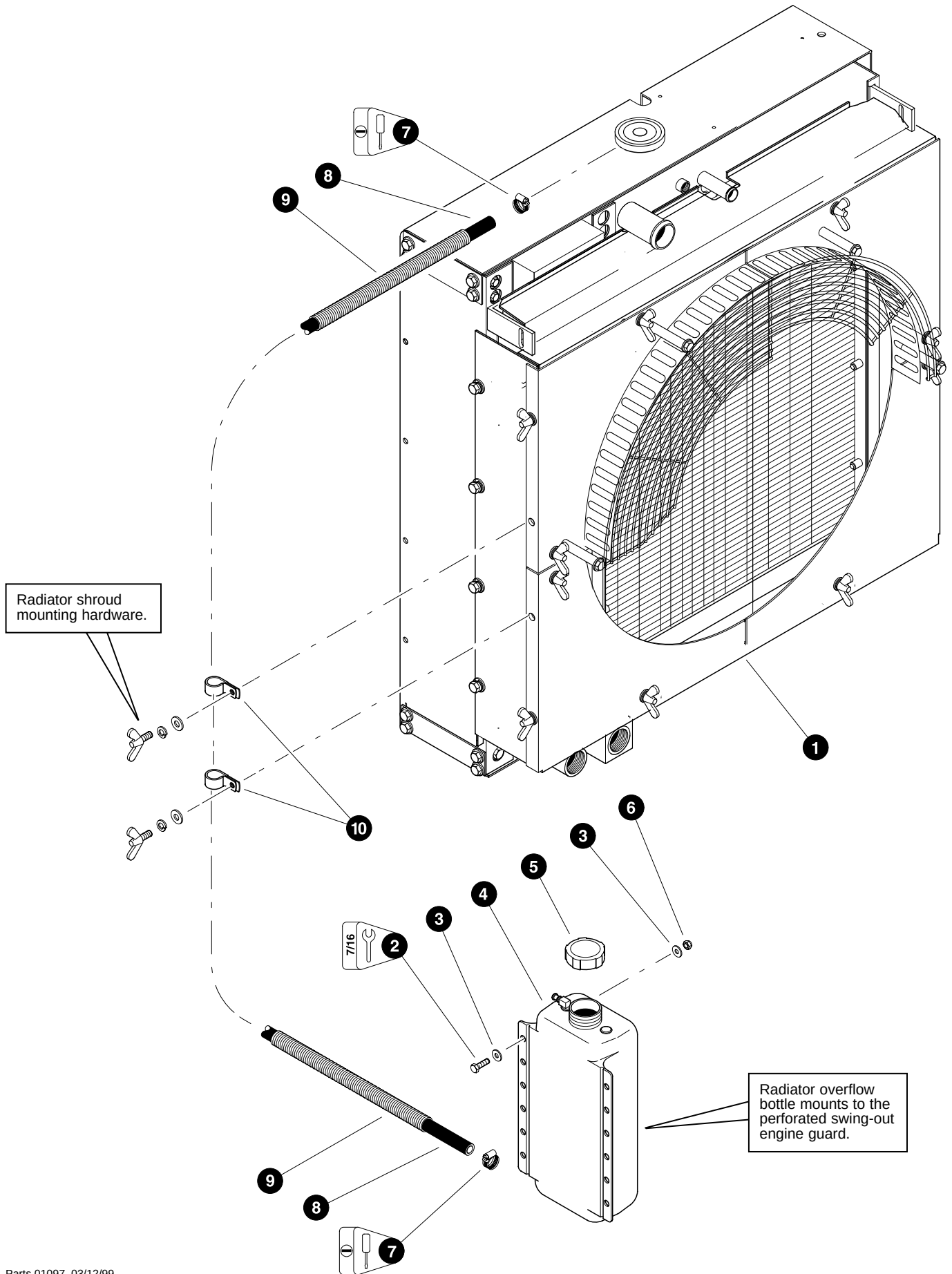
Parts 01096 03/12/99
18.75

RADIATOR/OIL COOLER INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	10736	2		BOLT - 1/2" x 2"	
2	15534	4		WASHER, SAE flat - 1/2"	
3	REF.	1	✓	UPPER TURNABLE WELDMENT	H.1.2
4	15619	AR		SPACER, radiator - 3/8"	
	19217	AR		SPACER, radiator - 1/2"	
	19218	AR		SPACER, radiator - 5/8"	
	19219	AR		SPACER, radiator - 3/4"	
5	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY (Karmazin)	F.2.2
	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY (Thermal Dynamic)	F.2.4
6	18798	AR		SHIM, radiator/oil cooler mount	
7	17776	2		SPACER, rubber radiator/oil cooler mount	
8	15550	2		WASHER, SAE flat - 3/4"	
9	10817	2		NUT, lock - 3/4"	
10	16717	AR	>⌀	HOSE, heater - 5/8"	
11	10815	2		NUT, lock - 1/2"	

✓ See referenced page for component or assembly breakdown.

>⌀ Bulk material - order length required in feet or meters.



Parts 01097 03/12/99
18.75

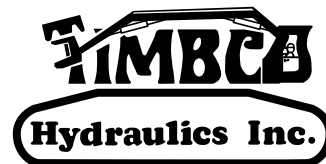
RADIATOR OVERFLOW LINE

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY (Karmazin)	F.2.2
	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY (Thermal Dynamic)	F.2.4
2	15576	4		BOLT - 1/4" x 1"	
3	10800	8		WASHER, flat- 1/4"	
4	16925	1		BOTTLE, radiator overflow	
5	19119	1		CAP, radiator overflow bottle	
6	15509	4		NUT, nylock - 1/4"	
7	16202	2		CLAMP, hose - worm style - 5/8"	
8	16238	AR	≥	HOSE, fuel line - 5/16"	
9	17449	AR	≥	LOOM, split - 1/2"	
10	16119	2		CLAMP, hose - coated strap - 1"	

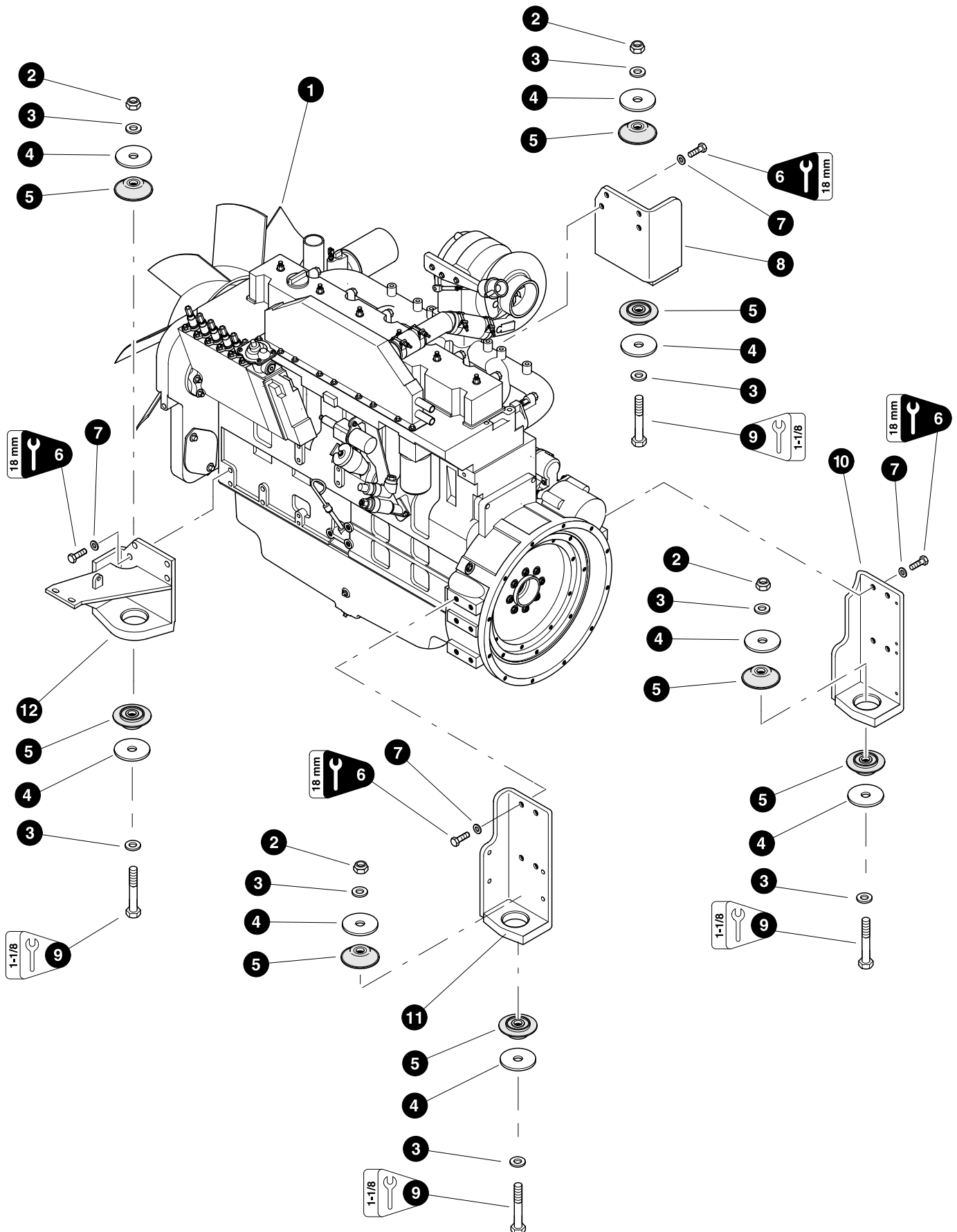
✓ See referenced page for component or assembly breakdown.

≥ Bulk material - order length required in feet or meters.

Section F.3



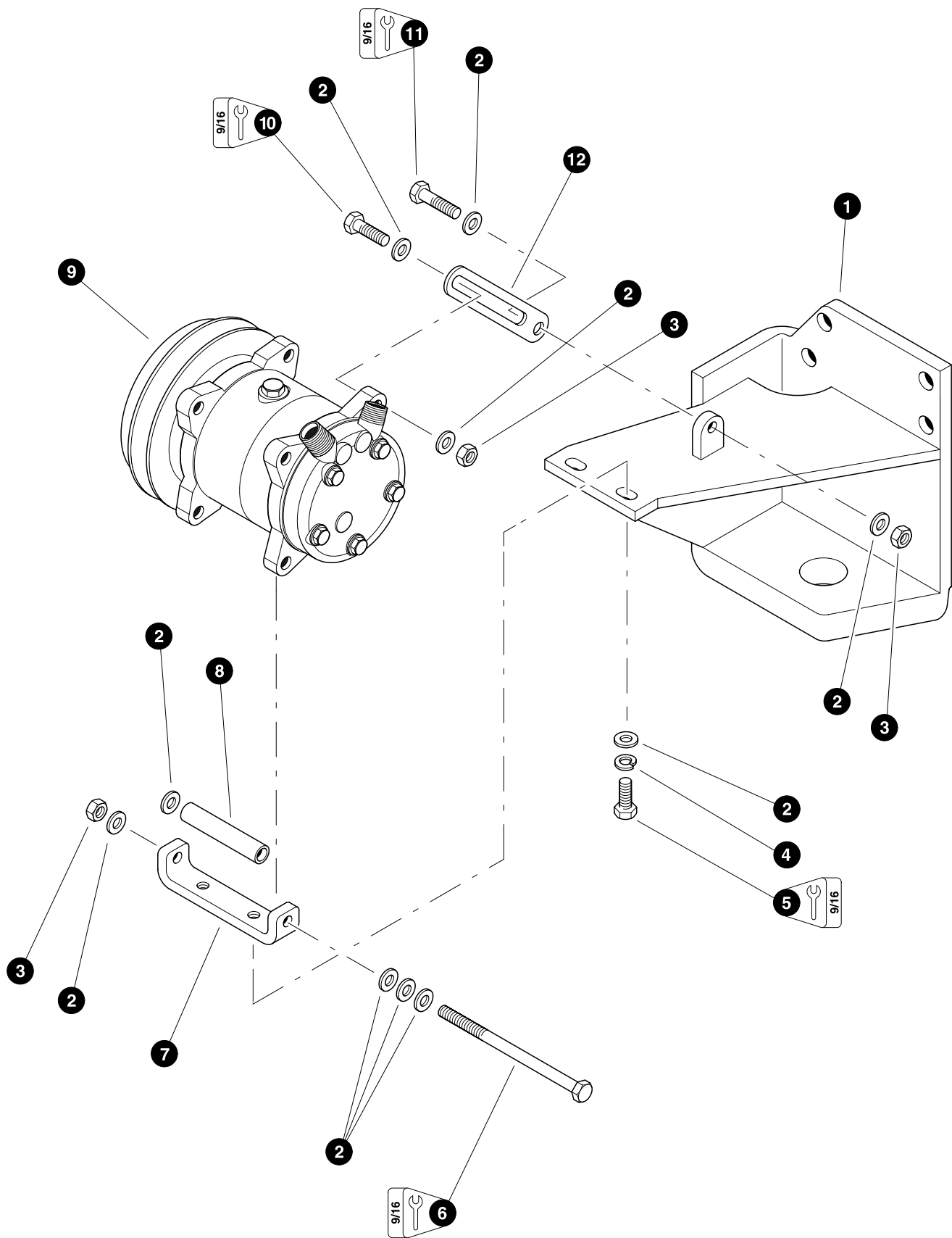
Engine Installation - Cummins 6C8.3-C 260HP (Standard)



Parts 00981 12/09/98
12.50

ENGINE INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	18745	1	ENGINE, Cummins - C8.3-C 260HP	
2	10817	4	NUT, lock - 3/4"	
3	15550	8	WASHER, SAE flat - 3/4"	
4	17918	8	WASHER, isolator mount - 7/8" x 3-1/2"	
5	17904	8	ISOLATOR, engine mount - rear	
6	15551	16	BOLT - 12mm-1.75P x 40mm (Torque to 92 ft.lbs. (122 Nm))	
7	18735	16	WASHER, flat -12mm	
8	21124	1	MOUNT, engine - RH front	
9	10845	4	BOLT - 3/4" x 5-1/2"	
10	19762	1	MOUNT, engine - RH rear	
11	19761	1	MOUNT, engine - LH rear	
12	21123	1	MOUNT, engine - LH front	

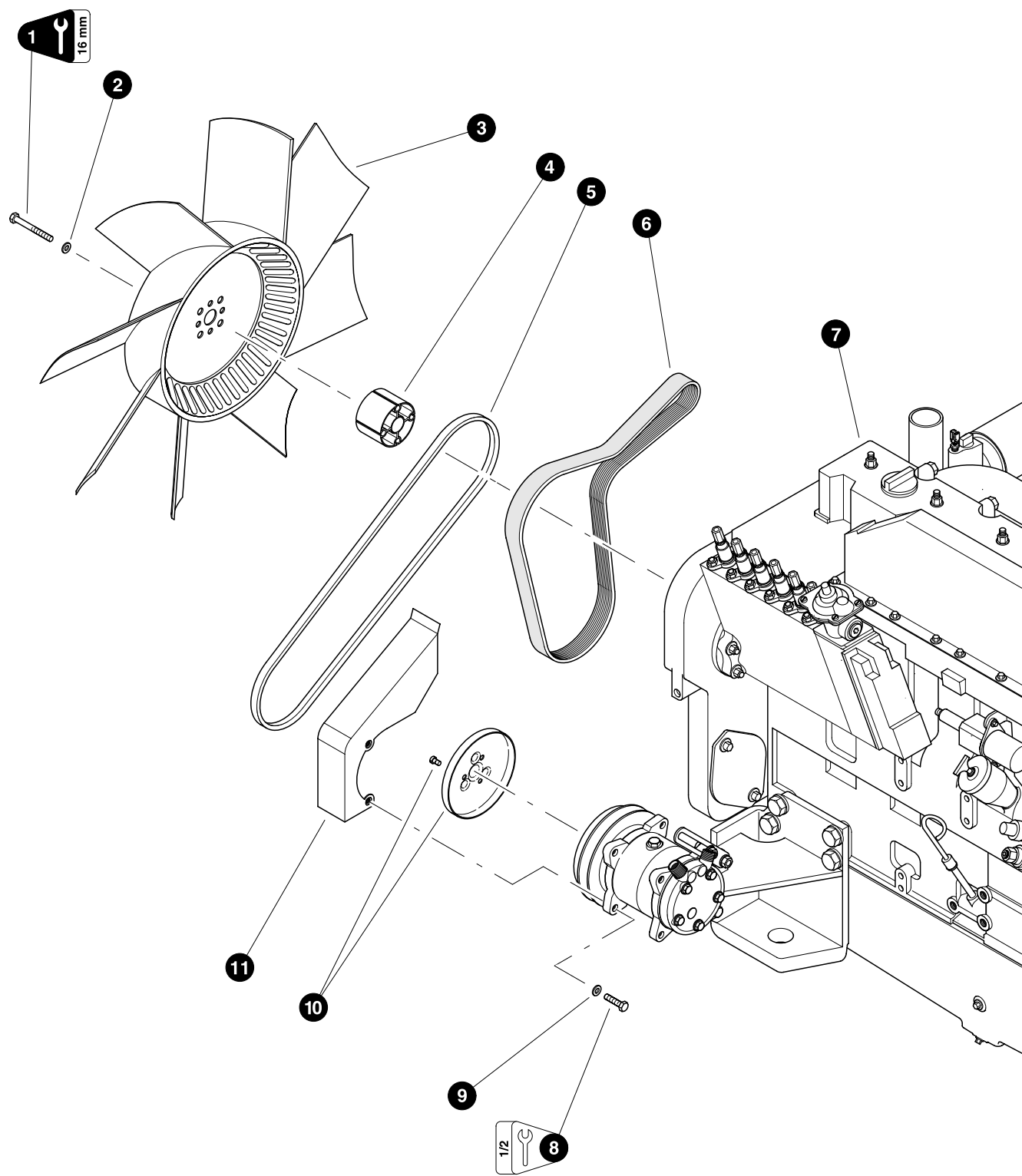


Parts 00419 02/01/98
37.50

AIR CONDITIONER COMPRESSOR INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ENGINE MOUNT - LH front	F.4.2
2	15528	11		WASHER, SAE flat - 3/8"	
3	10813	3		NUT, lock - 3/8"	
4	10701	2		WASHER, lock - 3/8"	
5	11707	1		BOLT - 3/8" x 1"	
6	10830	1		BOLT - 3/8" x 6"	
7	12437	1		BRACKET, compressor mounting	
8	16517	1		SPACER, compressor mounting	
9	18092	1		COMPRESSOR, air conditioner	
10	10402	1		BOLT - 3/8" x 1-1/4"	
11	10731	1		BOLT - 3/8" x 1-1/2"	
12	12139	1		BRACKET, compressor adjustment	

✓ See referenced page for component or assembly breakdown.



Parts 00420 02/02/98
18.75

ENGINE FAN & BELTS

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	18417	4	BOLT - 10mm x 75mm (See note below)(Used with high pitch sucker fan)(Torque to 42 ft.lbs. (56 Nm))	
	18421	4	BOLT - 10mm x 60mm (See note below) (Used with blower fan)(Torque to 42 ft.lbs. (56 Nm))	
2	15528	4	WASHER, SAE flat - 3/8"	
3	20754	1	FAN, engine - sucker - 28" high pitch (See verification information below before ordering parts)	
	20755	1	FAN, engine - blower - 28" (See verification information below before ordering parts)	
4	18395	1	SPACER, engine fan (Used with high pitch sucker fan)	
	16549	1	SPACER, engine fan (Used with sucker fan)	
	16548	1	SPACER, engine fan (Used with blower fan)	
5	21021	1	BELT, A/C compressor drive	
6	16071	1	BELT, engine fan	
7	REF.	1	✓ ENGINE - Cummins C8.3-C	F.3.2
8	10822	2	BOLT - 5/16" x 1-1/4"	
9	15559	2	WASHER, SAE flat - 5/16"	
10	16796	1	COVER, A/C compressor dust	
11	17891	1	GUARD, A/C compressor belt	

✓ See referenced page for component or assembly breakdown.

Note:

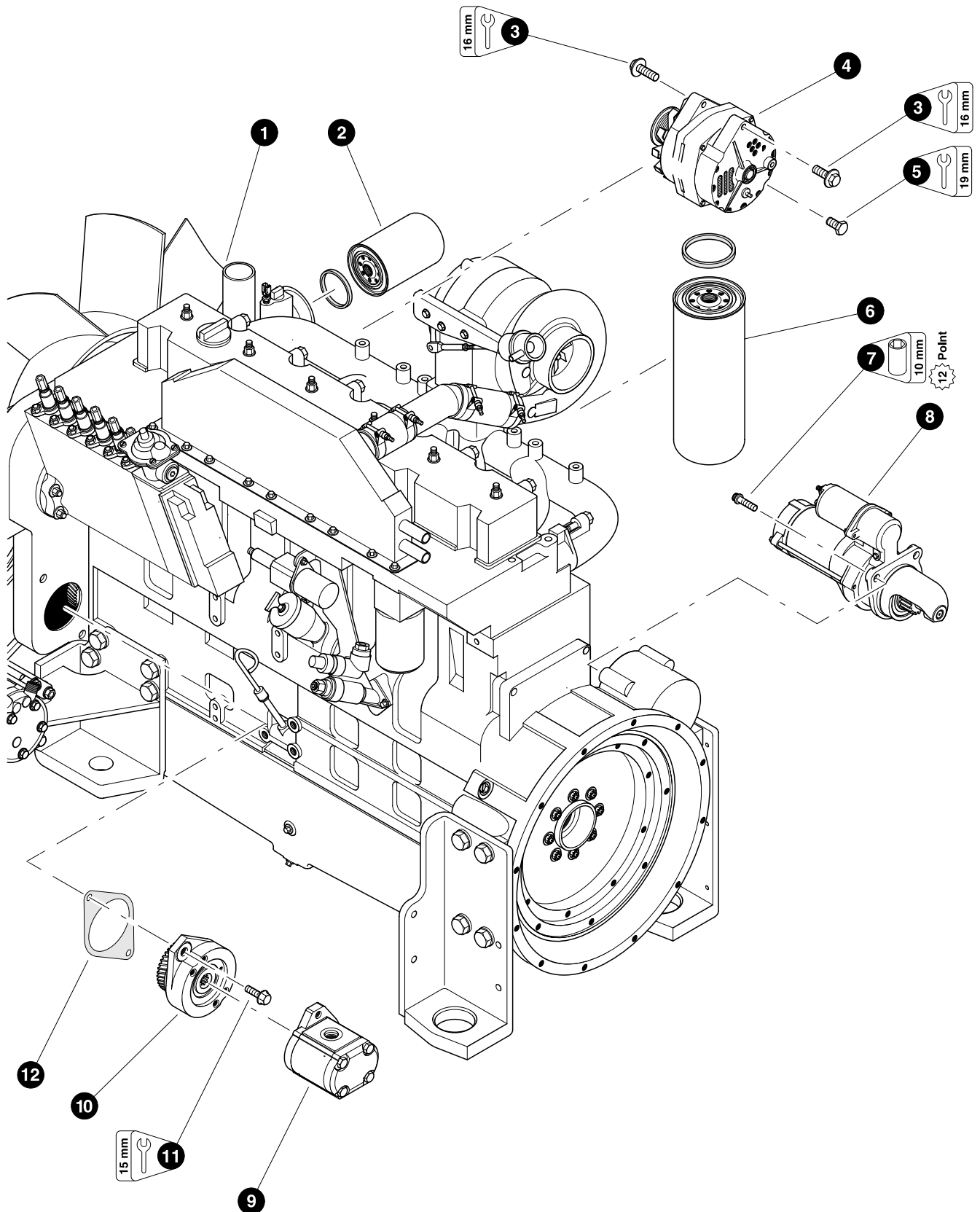
Use Loctite 272 (blue) during installation.

Verification Information:

There are two sizes of engine fans used...

A) Machines built before May 1, 1998 (approximate) were equipped with 26" (66 cm) diameter engine fans.

B) Machines built after May 1, 1998 (approximate) were equipped with 28" (71 cm) diameter engine fans.

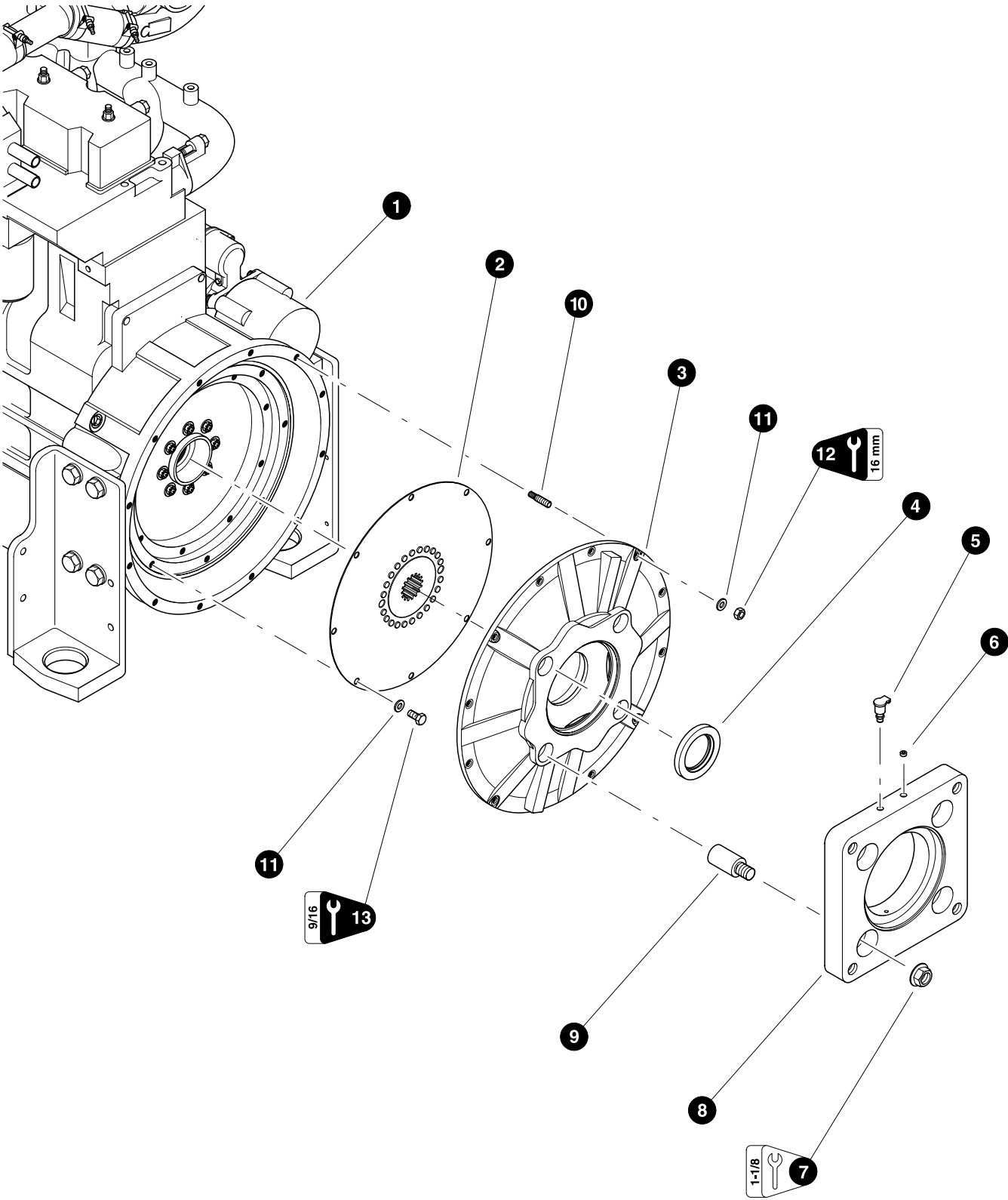


Parts 00421 04/25/98
18.75

ALTERNATOR, STARTER & MISC. COMPONENTS

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ENGINE - Cummins C8.3-C	F.3.2
2	20445	1		FILTER, coolant (w/corrosion resistor additive)	
3	--	2		BOLT, flange head - 12mm x 40mm	
4	20857	1		ALTERNATOR - 12V / 160 AMP (Used on machines PDN# 046FWD and above)	
	16389	1		ALTERNATOR - 12V / 130 AMP (Used on machines PDN# 045FWD and below)	
5	--	1		BOLT, flange head - 10mm x 25mm	
6	16070	1		FILTER, engine oil	
7	--	3		BOLT, 12 point cap - 10mm x 35 mm	
8	17270	1		STARTER - 12V	
9	REF.	1		CHARGE PUMP	B.3.2
--	17428	1	✓	KIT, auxiliary pad drive - SAE "A"	
10	--	1		PAD, auxiliary drive - SAE "A"	
11	--	2		BOLT, flange head - 12mm x 35mm	
12	20927	1		GASKET, auxiliary pad drive	

✓ See referenced page for component or assembly breakdown.



SINGLE PUMP TRANSMISSION INSTALLATION (Superior)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ENGINE - Cummins C8.3-C	F.3.2
-	21967	1	□	TRANSMISSION, single pump drive	
2	21968	1		DRIVE PLATE	
3	21969	1		HOUSING	
4	22010	1		SEAL, shaft	
5	----	1		VENT	
6	----	2		SETSCREW	
7	----	4		NUT, flange - 3/4"	
8	21970	1		ADAPTER, pump drive - SAE "E"	
9	----	4		BOLT, press fit - 3/4"	
10	15531	12		STUD, threaded - 10mm x 45mm (See Note #1 below)	
11	15528	20		WASHER, SAE flat - 3/8"	
12	15530	12		NUT, hex - 10mm (See Note #2 below)	
				(Torque to 40 ft.lbs. (53 Nm))	
13	15542	8		BOLT - 3/8" x 3/4" (See Note #1 below)	
				(Torque to 40 ft.lbs. (53 Nm))	

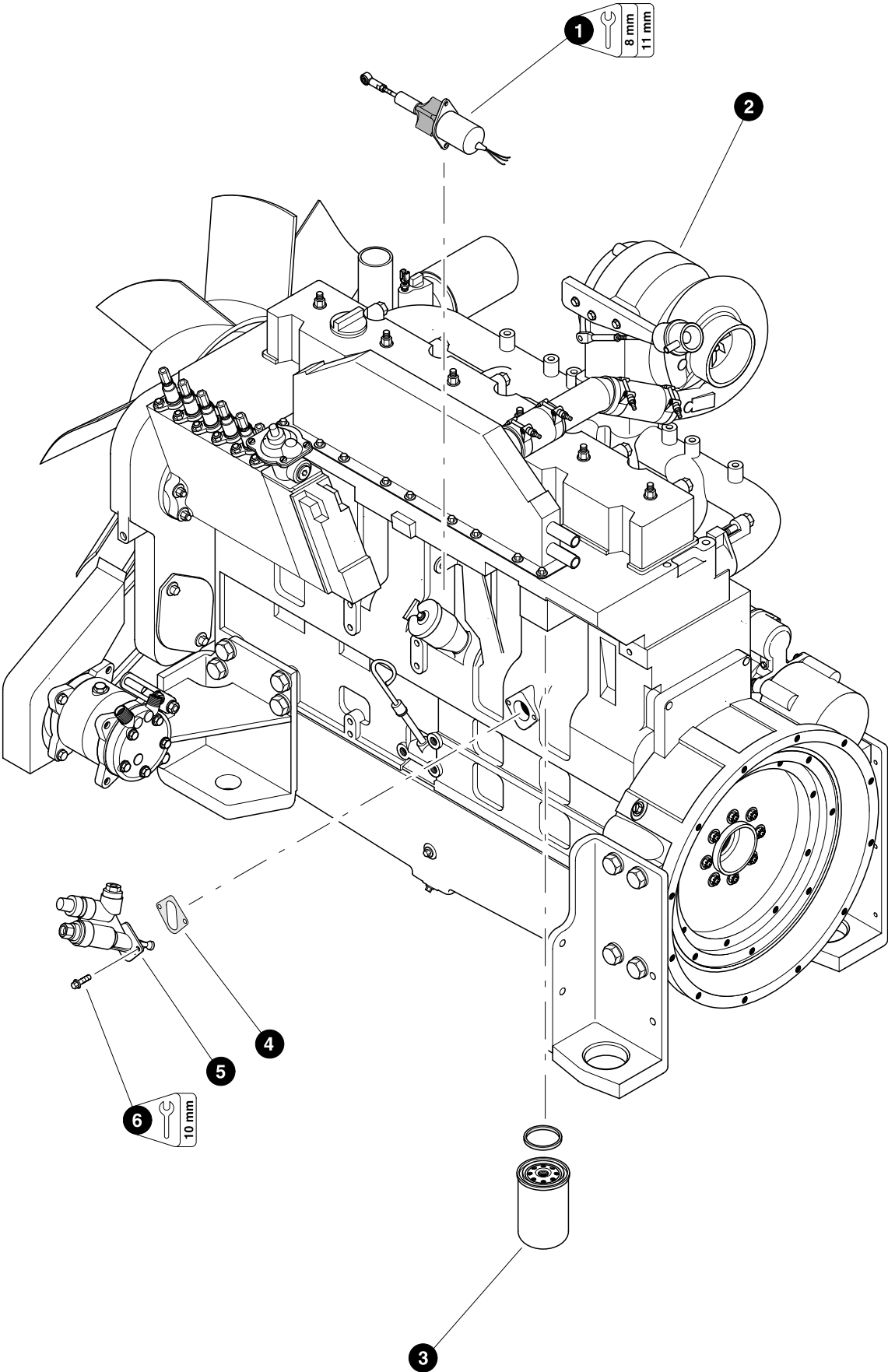
- ✓ See referenced page for component or assembly breakdown.
 □ Kit or Assembly - includes all items indented underneath.

Note #1:

Use Loctite 271 (red) during installation.

Note #2:

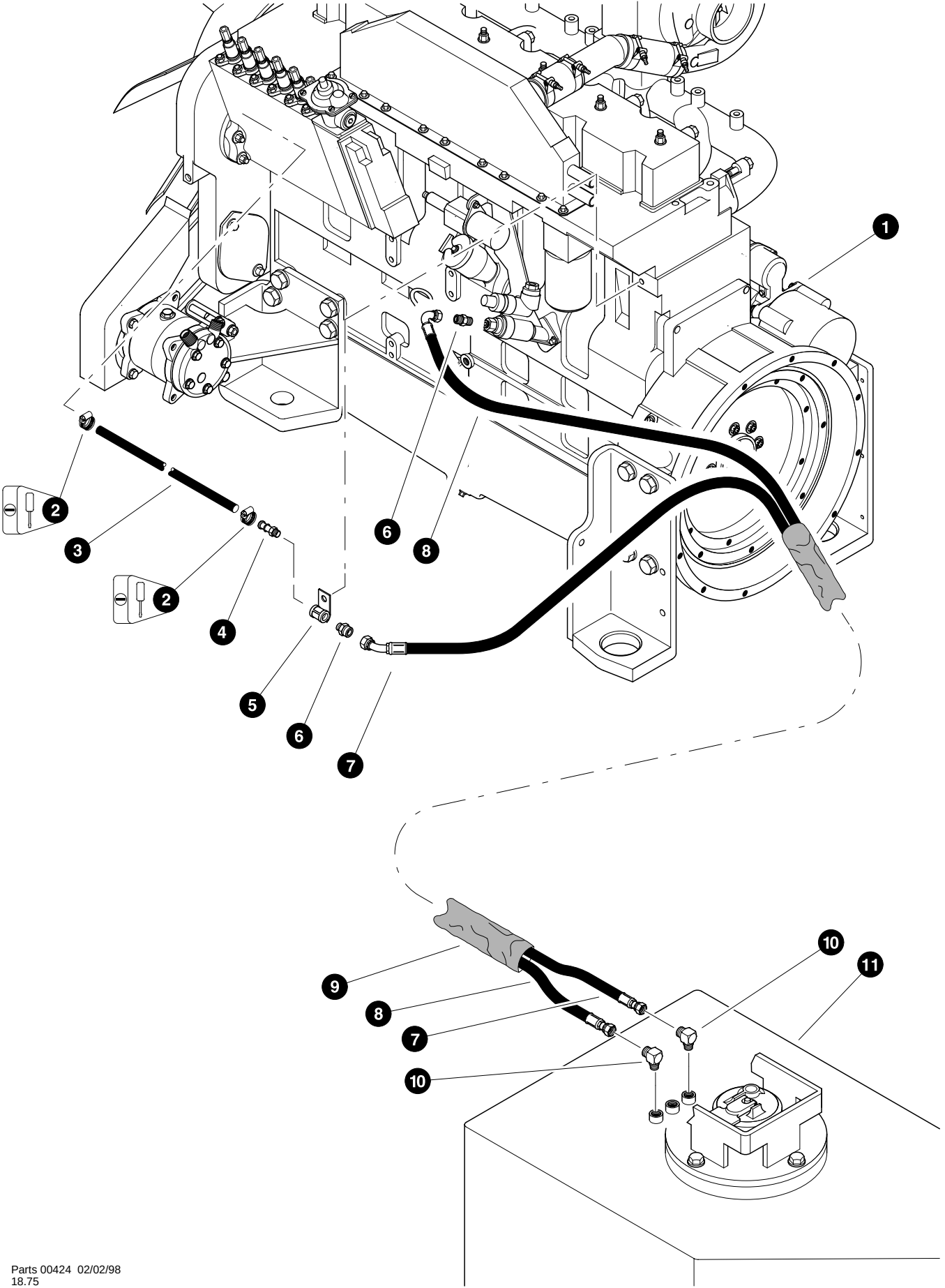
Use Loctite 272 (blue) during installation.



FUEL SYSTEM COMPONENTS ON ENGINE

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20956	1		SOLENOID, fuel shut-off	
2	REF.	1	✓	ENGINE - Cummins C8.3-C	F.3.2
3	19186	1		FILTER, fuel	
4	16834	1		GASKET, fuel lift pump	
5	16069	1		PUMP, fuel lift	
6	--	2		BOLT, flange head - 8mm x 25mm	

✓ See referenced page for component or assembly breakdown.



Parts 00424 02/02/98
18.75

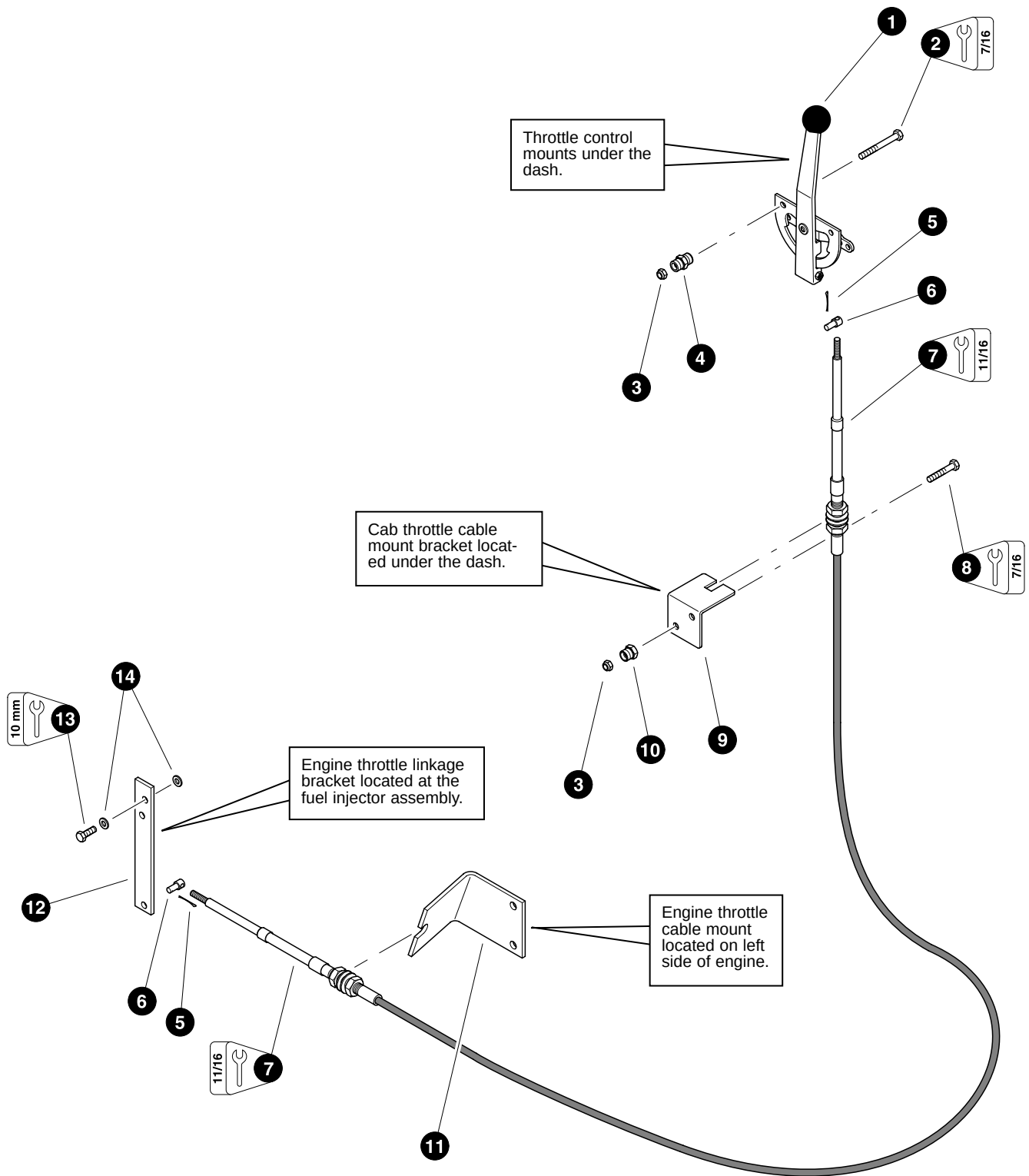
FUEL LINES

(Supply & Return To Engine)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ENGINE - Cummins C8.3-C	F.3.2
2	16202	2		CLAMP, hose - worm style - 5/8"	
3	16238	AR	✂	HOSE, fuel line - 5/16"	
4	10760	1		CONNECTOR, hose	
5	20423	1		BRACKET, fuel return junction	
6	16295	2		CONNECTOR, straight - FF2031T-0604S	
7	20426	1		HOSE ASSEMBLY - 2115-06-060S-0604 (Fuel return from fuel injectors on engine to tank)	
8	20424	1		HOSE ASSEMBLY - 2120-06-060S-0609 (Fuel supply from tank to fuel lift pump on engine)	
9	17572	AR	✂	SLEEVE, protective hose - 2-1/4"	
10	18481	2		ELBOW, 90° - FF2032T-0606S	
11	REF.	1	✓	FUEL TANK	F.1.2

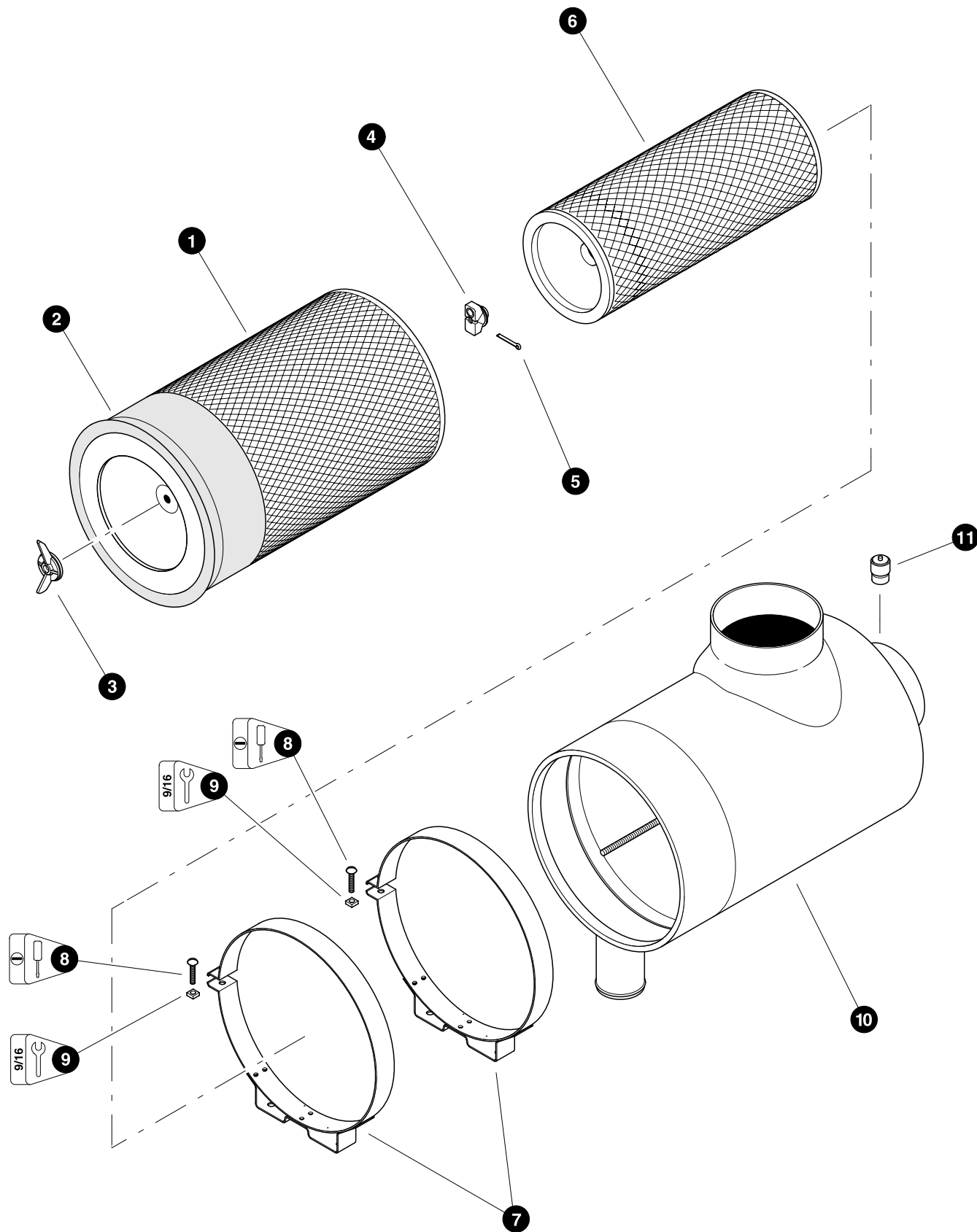
✓ See referenced page for component or assembly breakdown.

✂ Bulk material - order length required in feet or meters.



THROTTLE CONTROL

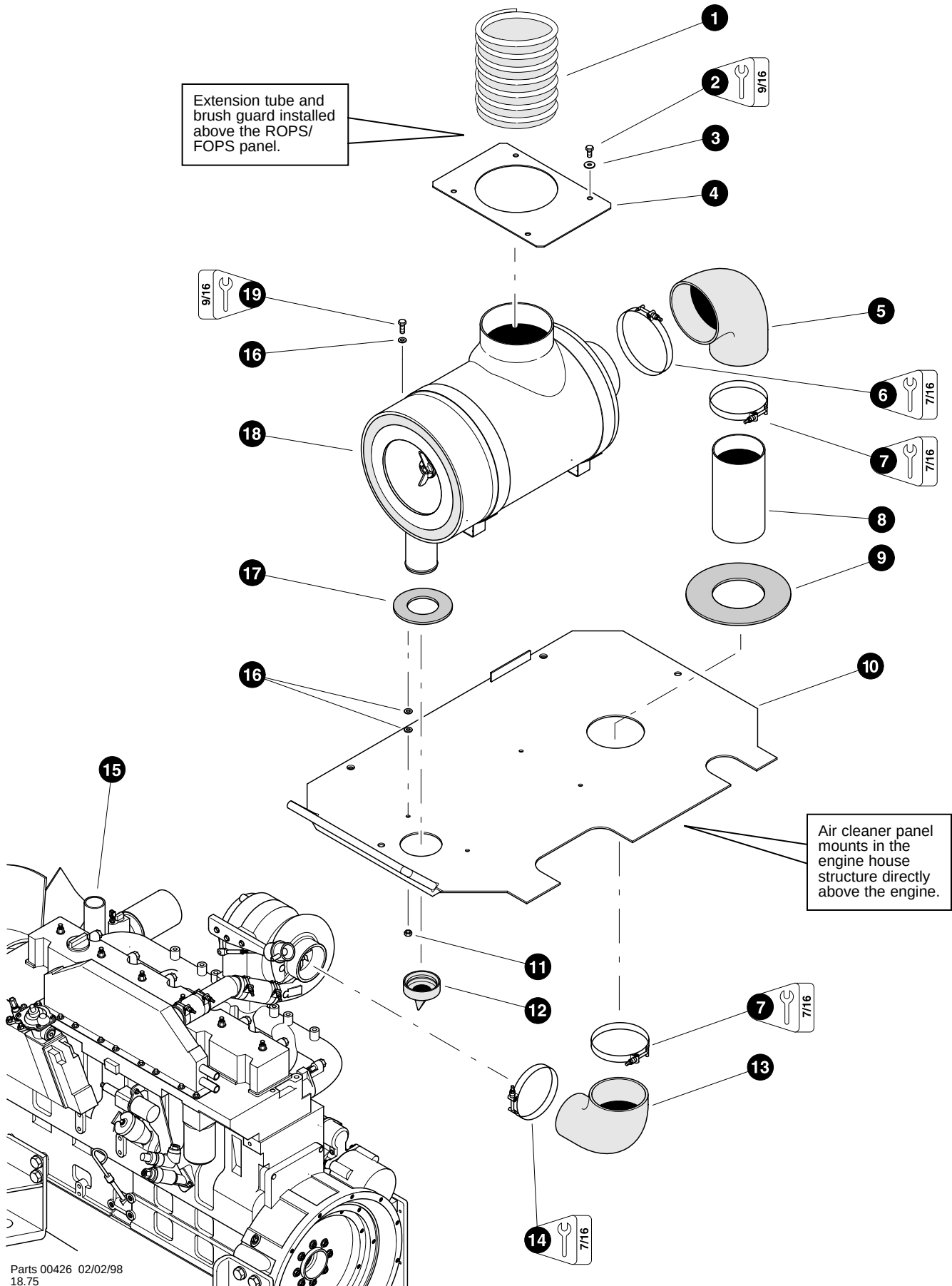
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	15566	1	CONTROL, throttle	
2	16364	2	BOLT - 1/4" x 2-1/4"	
3	15509	6	NUT, lock - 1/4"	
4	15567	2	CONNECTOR, straight - 5404-4 (Used as spacer)	
5	15572	2	PIN, cotter	
6	15573	2	PIN, pivot throttle cable end	
7	18221	1	CABLE, throttle	
8	15575	2	BOLT - 1/4" x 1-1/2"	
9	12218	1	BRACKET, throttle cable mount - cab	
10	15574	2	BUSHING, reducer - 5406-4-2 (Used as spacer)	
11	18845	1	BRACKET, throttle cable mount - engine (Uses existing engine hardware)	
12	18846	1	BRACKET, throttle cable linkage	
13	16133	2	BOLT - 6mm-1.0P x 16mm	
14	10757	2	WASHER, SAE flat - 1/4"	



AIR CLEANER ASSEMBLY

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	19550	1	☐	AIR CLEANER ASSEMBLY	
1	18820	1		FILTER, air cleaner - primary	
2	22252	1		GASKET, air cleaner element (Shown installed)	
3	19551	1		NUT, wing	
4	20448	1		NUT, air cleaner - secondary	
5	20449	1		PIN, roll - air cleaner nut	
6	18821	1		FILTER, air cleaner - secondary	
7	20450	2	☐	CLAMP, air cleaner band	
8	15591	1		BOLT - 5/16" x 1-1/2"	
9	10788	1		NUT, nylock - 5/16"	
10	20451	1		CANISTER, air cleaner	
11	16114	1		INDICATOR, air cleaner filter service	

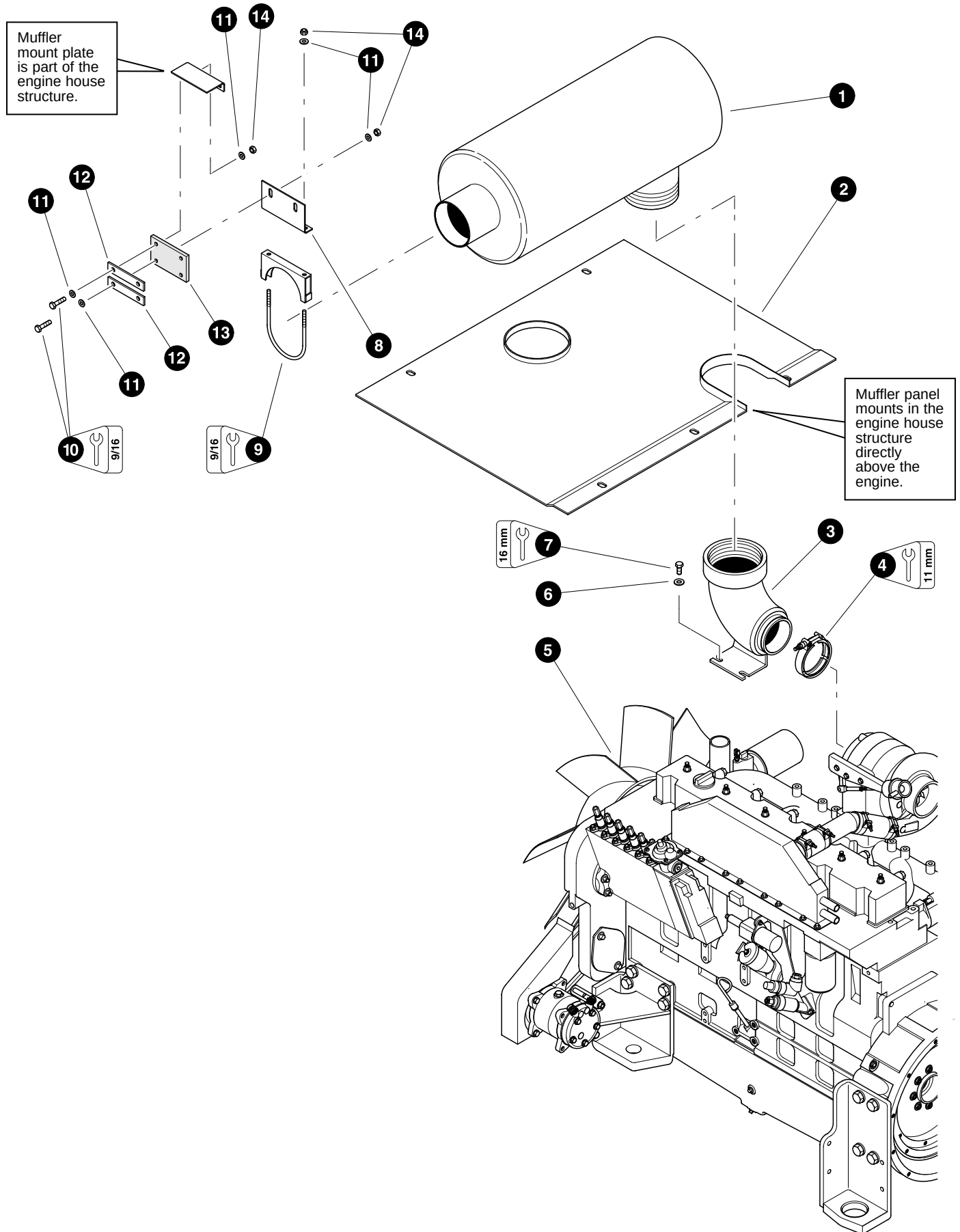
☐ Kit or Assembly - includes all items indented underneath.



AIR CLEANER INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	18819	1	TUBE, air cleaner extension	
2	15542	4	BOLT - 3/8 x 3/4"	
3	10802	4	WASHER, USS flat - 3/8"	
4	18818	1	GUARD, air cleaner brush	
5	18910	1	ELBOW, 90° rubber (Ribbed)	
6	18828	1	CLAMP, strap band - 6-3/4"	
7	16249	2	CLAMP, strap band - 5-1/2"	
8	18816	1	CONNECTOR, air intake	
9	19163	1	BOOT, rubber air intake	
10	REF.	1	✓ AIR CLEANER PANEL	H.1.18
11	10813	4	NUT, lock - 3/8"	
12	16608	1	BOOT, air cleaner dust	
13	15831	1	ELBOW, 90° rubber	
14	15697	1	CLAMP, strap band - 4-1/2"	
15	REF.	1	✓ ENGINE - Cummins C8.3-C	F.3.2
16	15528	8	WASHER, SAE flat - 3/8"	
17	16495	1	BOOT, rubber	
18	REF.	1	✓ AIR CLEANER ASSEMBLY	F.3.18
19	11707	4	BOLT - 3/8" x 1"	

✓ See referenced page for component or assembly breakdown.

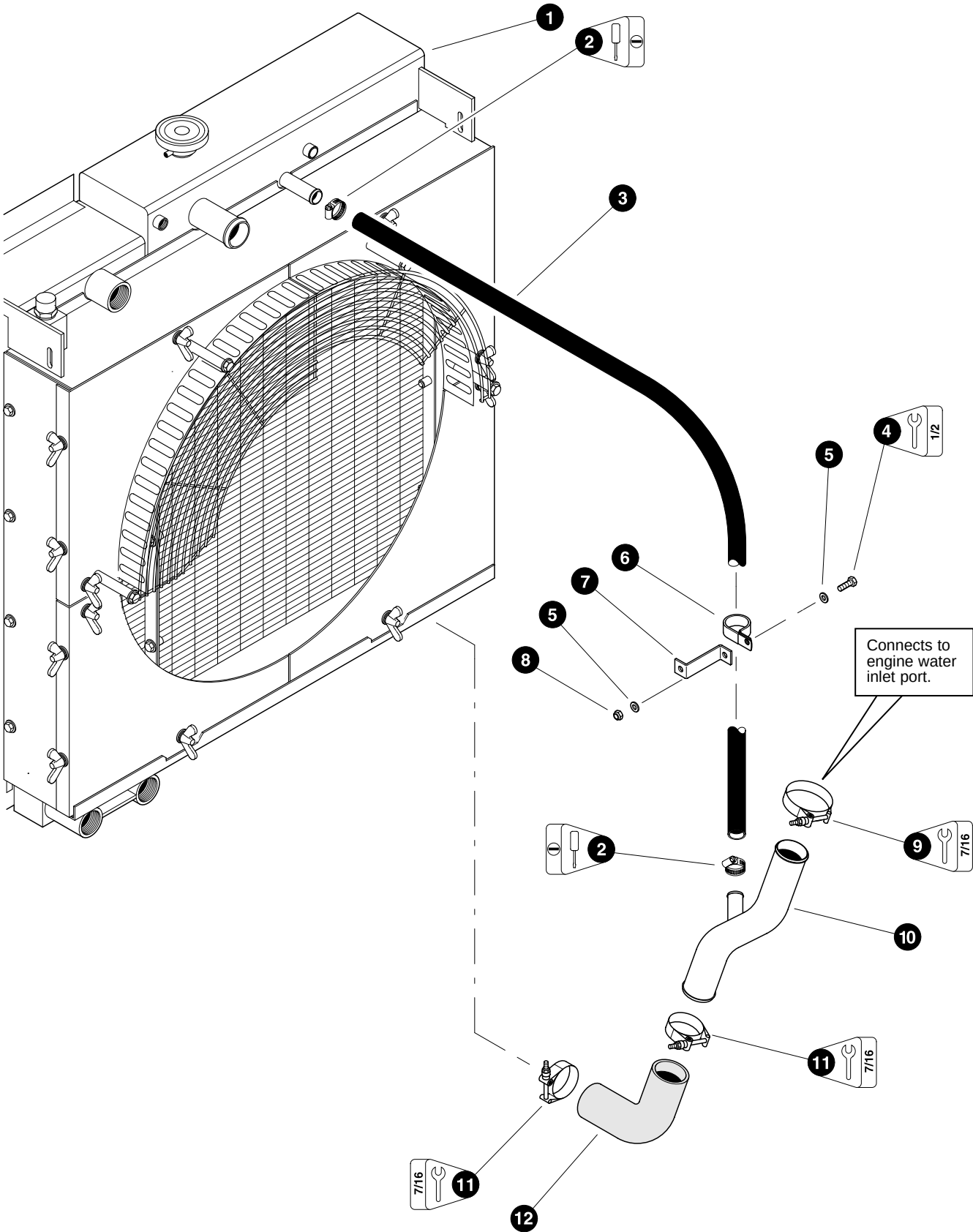


Parts 00428 02/02/98
12.50

MUFFLER INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	18822	1		MUFFLER	
2	REF.	1	✓	MUFFLER PANEL	H.1.18
3	18815	1		ELBOW, exhaust	
4	20452	1		CLAMP, turbo exhaust	
5	REF.	1	✓	ENGINE - Cummins C8.3-C	F.3.2
6	10802	2		WASHER, USS flat - 3/8"	
7	18416	2		BOLT - 10mm x 25mm	
8	20856	1		BRACKET, top muffler	
9	18830	1		CLAMP, muffler mount - 5"	
10	10731	4		BOLT - 3/8" x 1-1/2"	
11	15528	10		WASHER, SAE flat - 3/8"	
12	16734	2		RETAINER, muffler rubber	
13	16572	1		RUBBER, muffler mounting	
14	10813	6		NUT, lock - 3/8"	

✓ See referenced page for component or assembly breakdown.



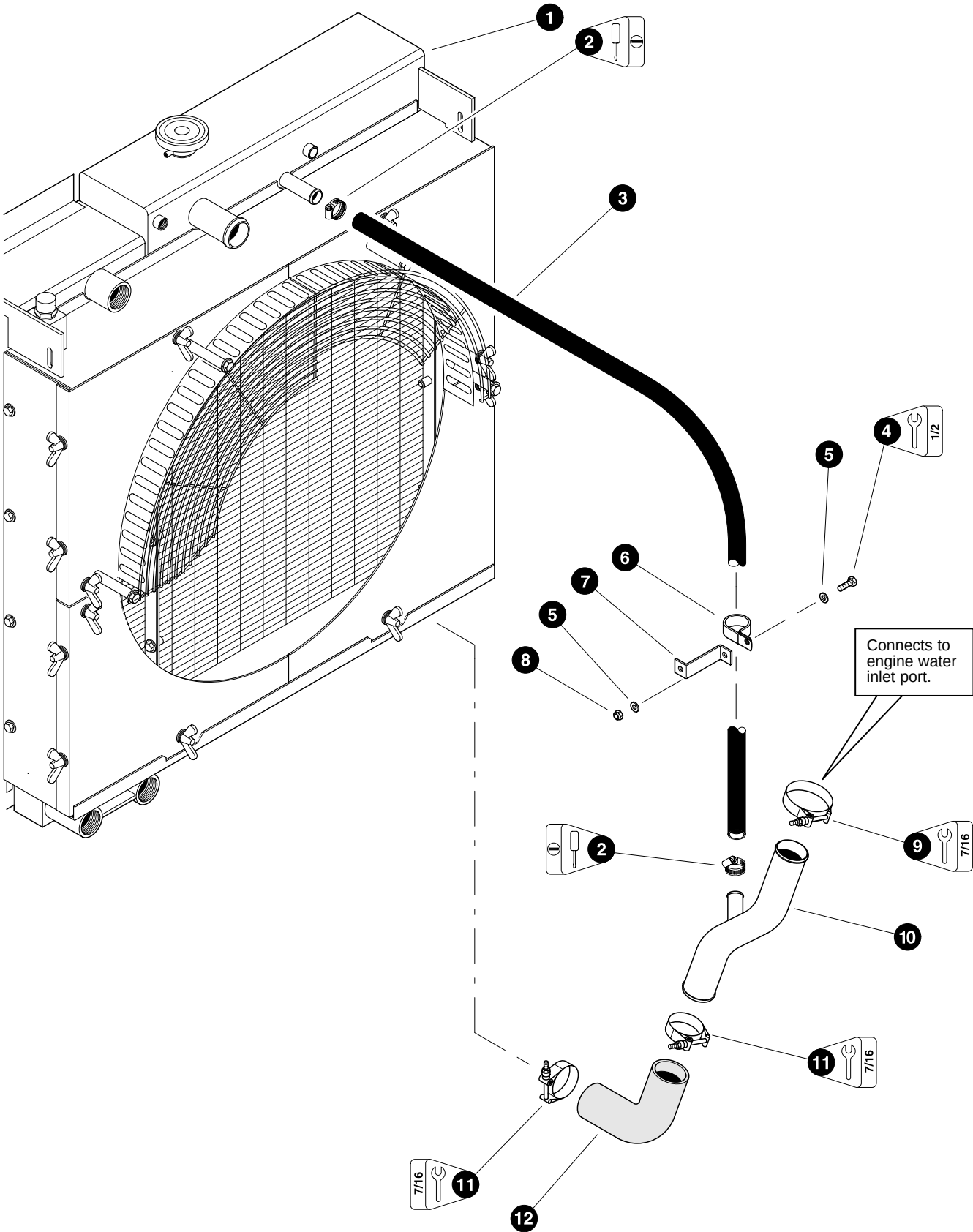
Parts 00429 02/03/98
18.75

COOLING SYSTEM LINES

(Lower Radiator Connections - Karmazin)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
2	15629	2		CLAMP, hose - worm style - 1-1/2"	
3	15677	AR	>⌘	HOSE, heater - 1"	
4	15589	1		BOLT - 5/16" x 1"	
5	15559	2		WASHER, SAE flat - 5/16"	
6	17257	1		CLAMP, hose - coated strap - 1-1/2"	
7	16951	1		BRACKET, water hose support (Uses existing engine mounting hardware)	
8	10788	1		NUT, nylock - 5/16"	
9	18104	1		CLAMP, constant torque - #36	
10	17767	1		TUBE, radiator splice	
11	18651	2		CLAMP, constant torque - #32	
12	17761	1		HOSE, 90° radiator - 2"	

- ✓ See referenced page for component or assembly breakdown.
 >⌘ Bulk material - order length required in feet or meters.



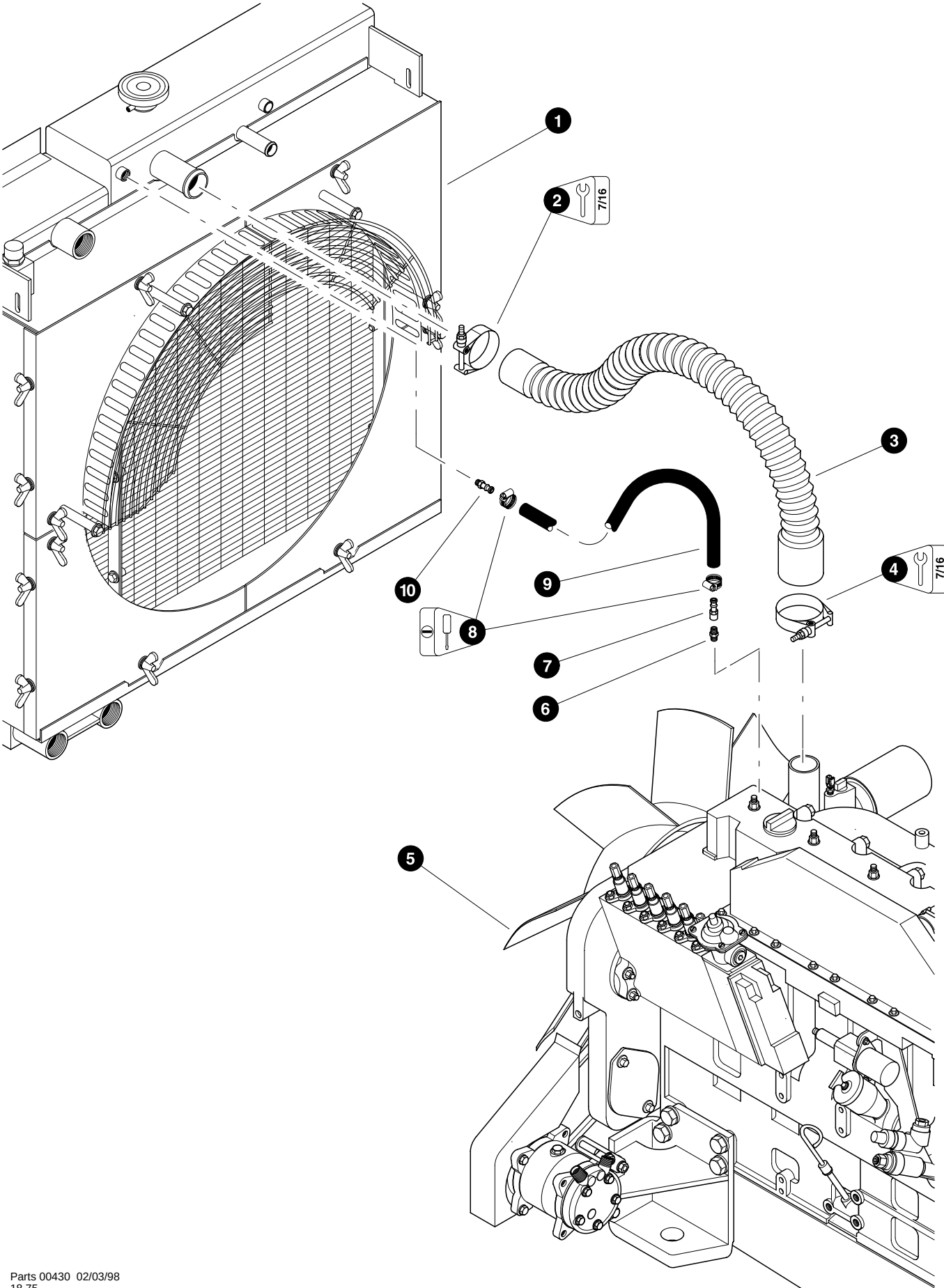
Parts 00429 02/03/98
18.75

COOLING SYSTEM LINES

(Lower Radiator Connections - Thermal Dynamic)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
2	16256	2		CLAMP, hose - worm style - 1"	
3	22184	AR	>∞	HOSE, heater - 3/4"	
4	15589	1		BOLT - 5/16" x 1"	
5	15559	2		WASHER, SAE flat - 5/16"	
6	17257	1		CLAMP, hose - coated strap - 1-1/2"	
7	16951	1		BRACKET, water hose support (Uses existing engine mounting hardware)	
8	10788	1		NUT, nylock - 5/16"	
9	18104	1		CLAMP, constant torque - #36	
10	21668	1		TUBE, radiator splice	
11	18651	2		CLAMP, constant torque - #32	
12	17761	1		HOSE, 90° radiator - 2"	

- ✓ See referenced page for component or assembly breakdown.
 >∞ Bulk material - order length required in feet or meters.



Parts 00430 02/03/98
18.75

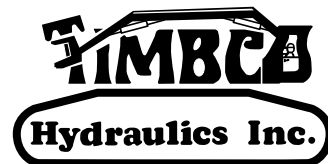
COOLING SYSTEM LINES (Upper Radiator Connections)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
2	18651	1		CLAMP, constant torque - #32	
3	16433	1		HOSE, flex radiator - 2" x 2-1/4" x 25"	
4	18104	1		CLAMP, constant torque - #36	
5	REF.	1	✓	ENGINE - Cummins C8.3-C	F.3.2
6	16977	1		CONNECTOR, straight - coolant orifice	
7	16989	1		CONNECTOR, straight hose barb - 4245-5-2	
8	16202	2		CLAMP, hose - worm style - 5/8"	
9	16238	AR	>⌀	HOSE, fuel line - 5/16"	
10	16990	1		CONNECTOR, straight hose barb - 4244-5-4	

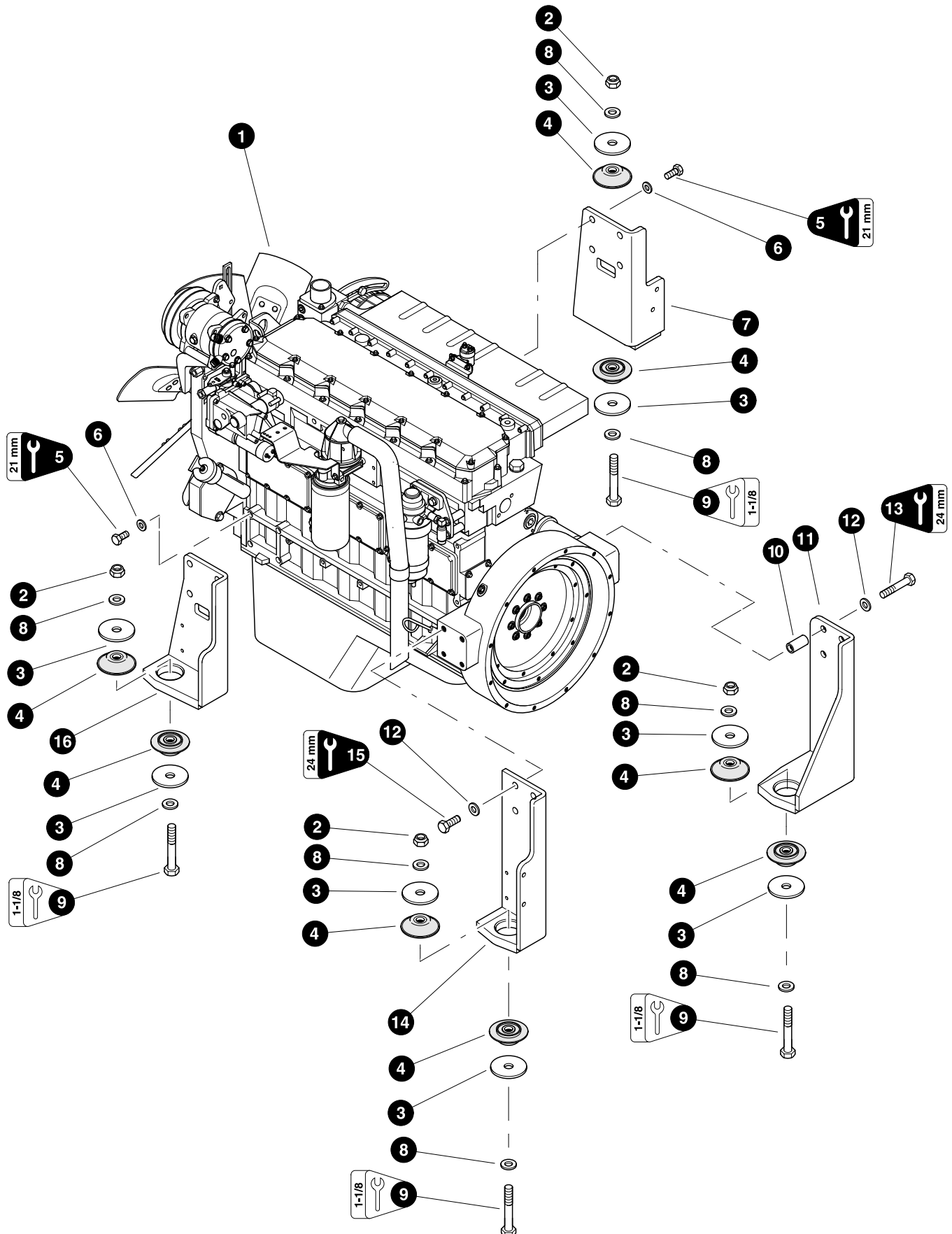
✓ See referenced page for component or assembly breakdown.

>⌀ Bulk material - order length required in feet or meters.

Section F.4



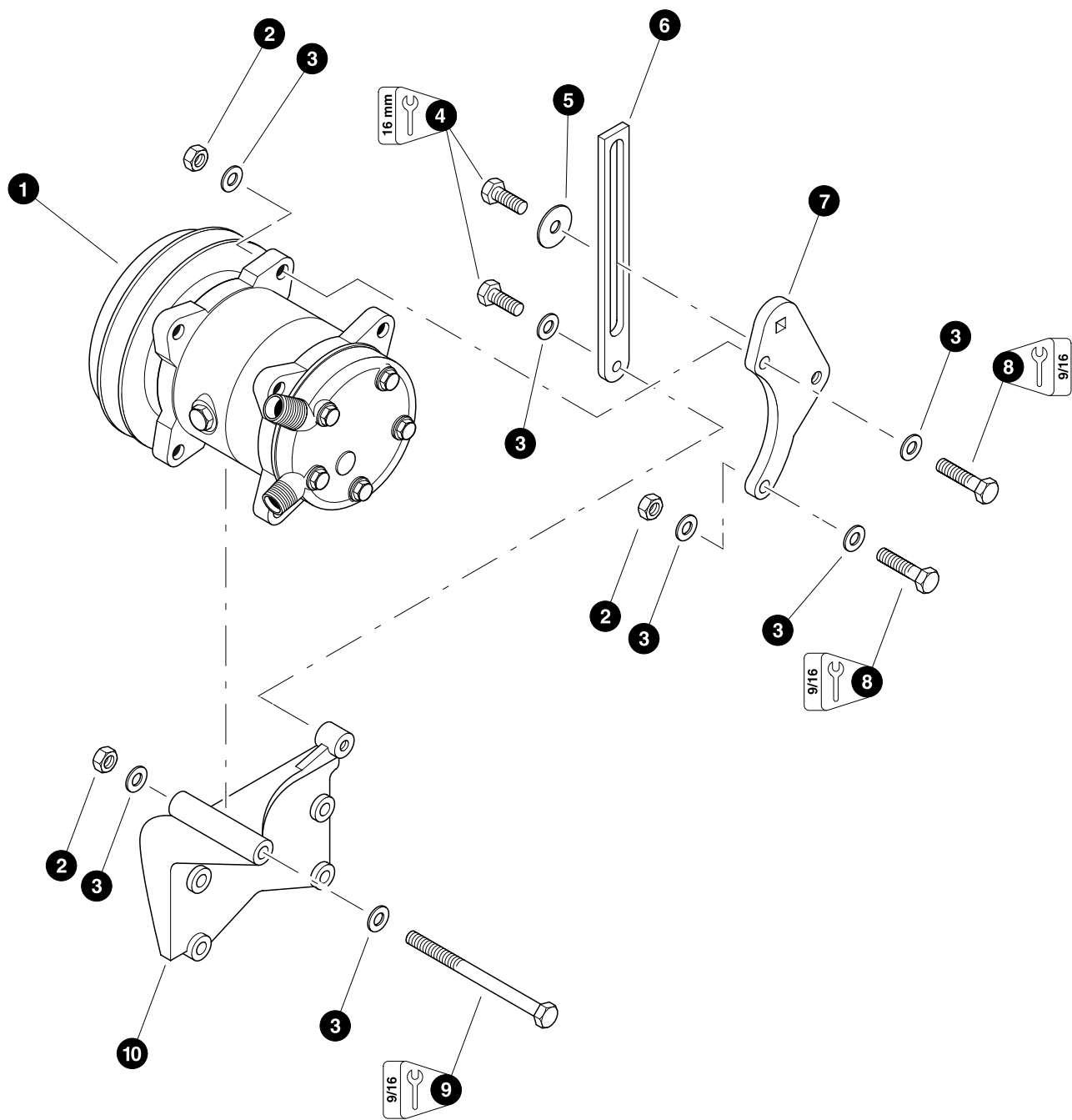
Engine Installation - Caterpillar 3126T (Optional)



Parts 00974 12/09/98
12.50

ENGINE INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	15800	1	ENGINE, Caterpillar - 3126T 240HP	
2	10817	4	NUT, lock - 3/4"	
3	17918	8	WASHER, isolator mount - 7/8" x 3-1/2"	
4	17904	8	ISOLATOR, engine mount - rear	
5	18379	8	BOLT - 14mm-2.0P x 35mm (Torque to 120 ft.lbs. (160 Nm))	
6	18418	8	WASHER, flat - 14mm	
7	18225	1	MOUNT, engine - RH front	
8	15550	8	WASHER, SAE flat - 3/4"	
9	10844	4	BOLT - 3/4" x 5"	
10	20624	4	SPACER, rear engine mount	
11	21220	1	MOUNT, engine - RH rear	
12	18777	8	WASHER, flat - 16mm	
13	20623	4	BOLT - 16mm-2.0P x 90mm (Torque to 175 ft.lbs. (233 Nm))	
14	18925	1	MOUNT, engine - LH rear	
15	18928	4	BOLT - 16mm-2.0P x 45mm (Torque to 175 ft.lbs. (233 Nm))	
16	21221	1	MOUNT, engine - LH front	

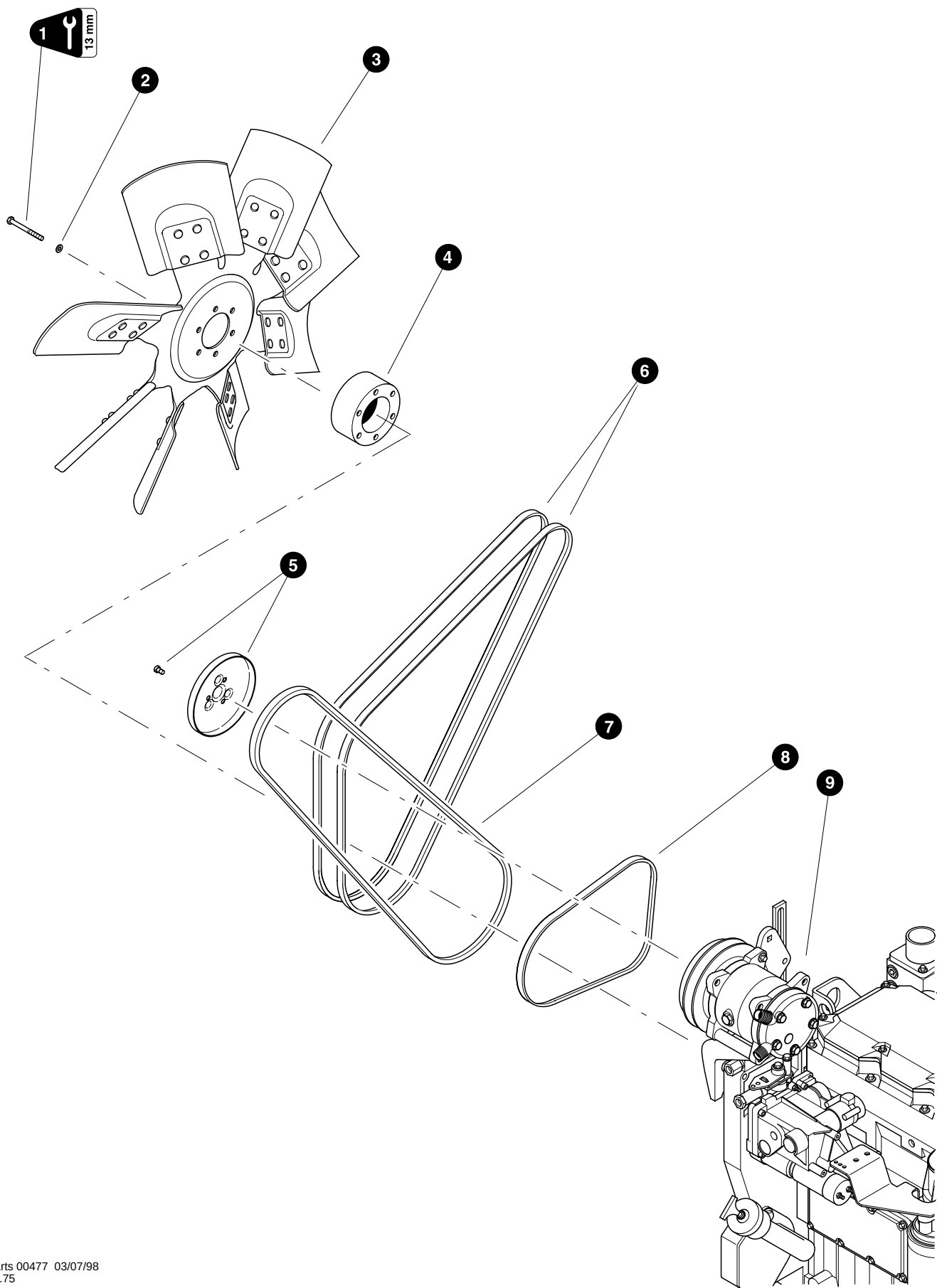


AIR CONDITIONER COMPRESSOR INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	18092	1	COMPRESSOR, air conditioner	
2	10813	3	NUT, lock - 3/8"	
3	15528	7	WASHER, SAE flat - 3/8"	
4	18416	2	BOLT - 10mm-1.5P x 25mm	
5	10802	1	WASHER, USS flat - 3/8"	
6	--	1	ADJUSTMENT BRACKET (See Note below)	
7	--	1	ADJUSTMENT BRACKET MOUNT (See Note below)	
8	10731	2	BOLT - 3/8" x 1-1/2"	
9	10829	1	BOLT - 3/8" x 5-1/2"	
10	--	1	COMPRESSOR MOUNTING BRACKET (See Note below)	

Note:

See the Caterpillar engine manuals supplied with machine for engine parts breakdowns.



Parts 00477 03/07/98
18.75

ENGINE FAN & BELTS

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	20417	6	BOLT - 8mm-1.25P x 80mm (See note below) (Torque to 35 ft.lbs. (47 Nm))	
2	15559	6	WASHER, SAE flat - 5/16"	
3	21022	1	FAN, engine - sucker - 28" high pitch (See verification information below before ordering parts)	
	20222	1	FAN, engine - blower - 28" high pitch (See verification information below before ordering parts)	
4	20813	1	SPACER, engine fan	
5	16796	1	COVER, A/C compressor dust	
6	18343	2	BELT, engine fan	
7	18342	1	BELT, A/C compressor drive	
8	18344	1	BELT, water pump	
9	REF.	1	✓ ENGINE - Caterpillar	F.4.2

✓ See referenced page for component or assembly breakdown.

Note:

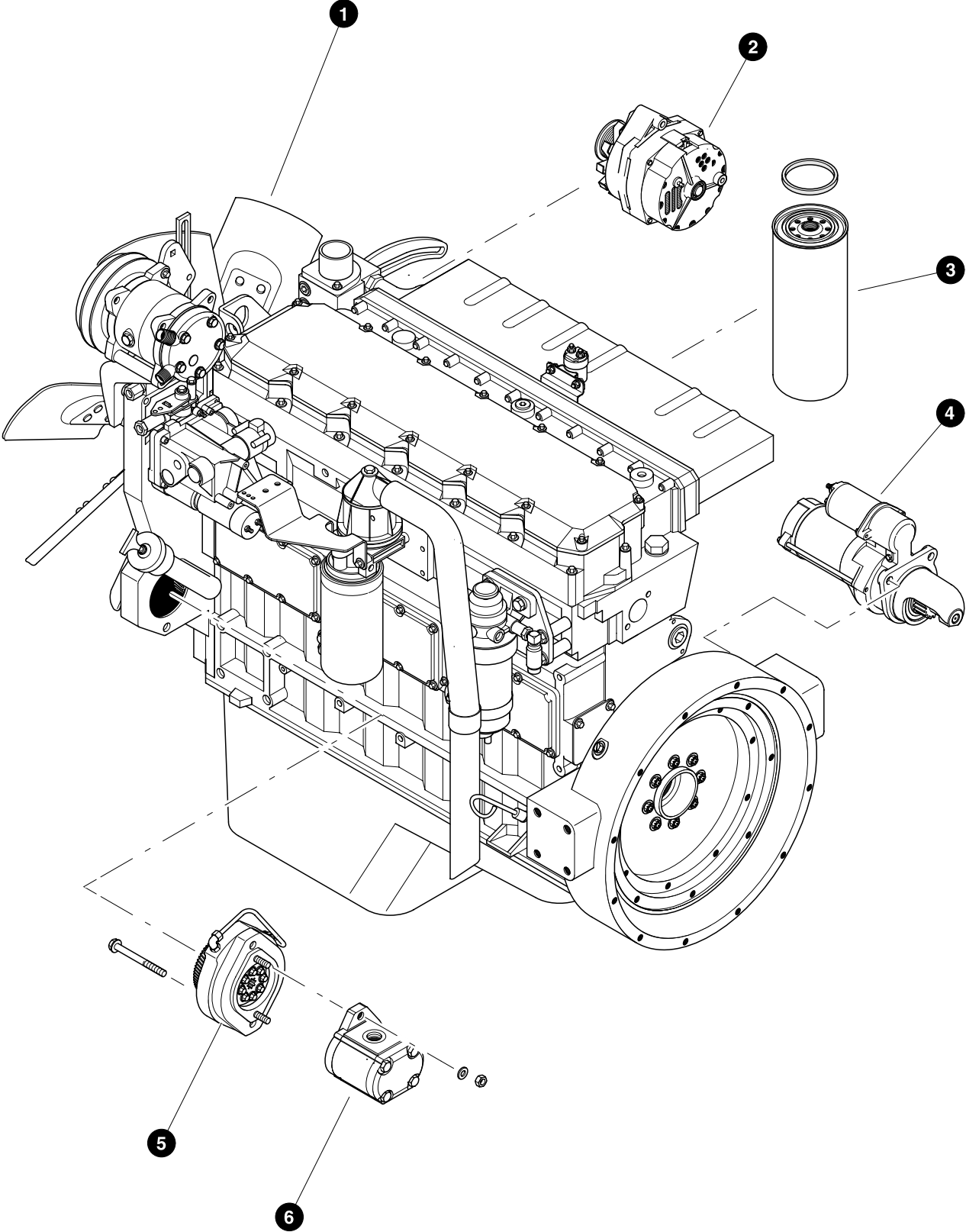
Use Loctite 272 (blue) during installation.

Verification Information:

There are two sizes of engine fans used...

A) Machines built before May 1, 1998 (approximate) were equipped with 26" (66 cm) diameter engine fans.

B) Machines built after May 1, 1998 (approximate) were equipped with 28" (71 cm) diameter engine fans.

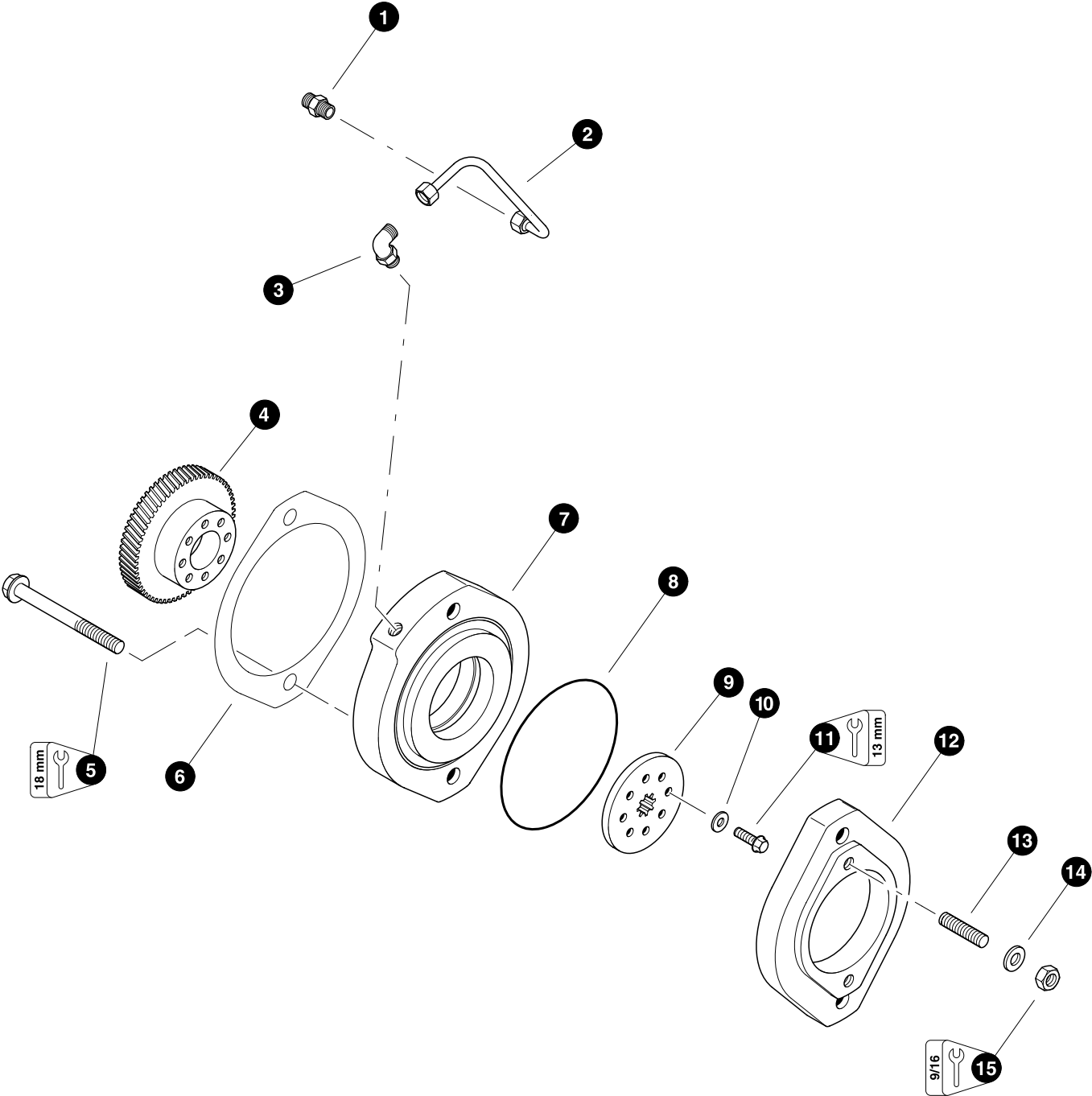


ALTERNATOR, STARTER & MISC. COMPONENTS

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ENGINE - Caterpillar	F.4.2
2	----	1	Ⓢ	ALTERNATOR - 12V /115 AMP	
3	18349	1		FILTER, engine oil	
4	----	1	Ⓢ	STARTER - 12V	
5	REF.	1	✓	AUXILIARY PUMP DRIVE (Includes mounting hardware)	F.4.10
6	REF.	1	✓	CHARGE PUMP	B.3.2

✓ See referenced page for component or assembly breakdown.

Ⓢ Contact your TIMBCO dealer for additional information.

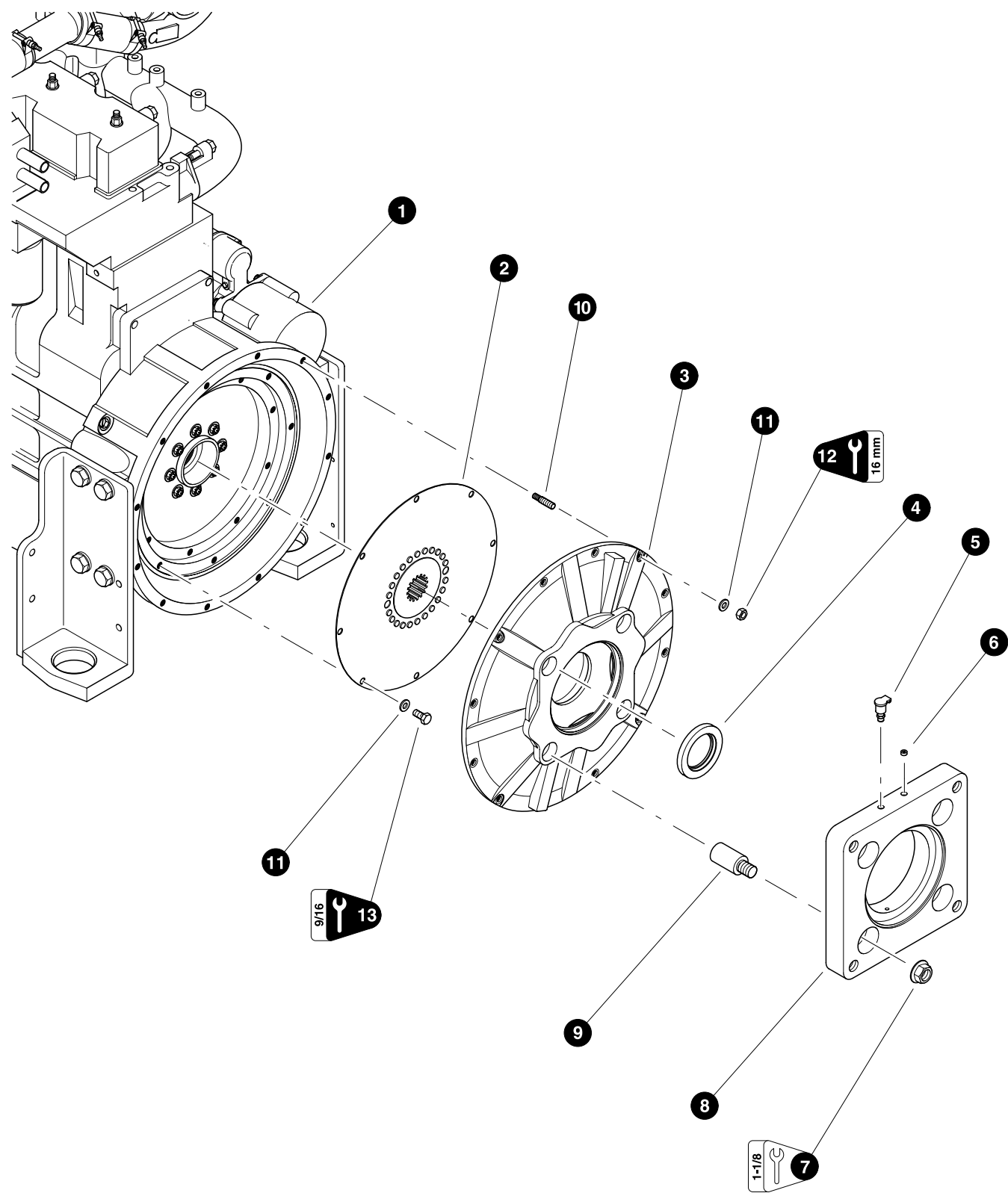


Parts 01042 02/02/99
37.50

AUXILIARY PUMP DRIVE INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	18796	1	☐	KIT, auxiliary drive - SAE "A"	
1	22073	1		CONNECTOR, straight	
	22074	1		O-RING	
2	22075	1		TUBE ASSEMBLY	
	22076	2		O-RING	
3	22077	1		ELBOW, 90°	
	22078	1		O-RING	
4	22079	1		GEAR, auxiliary drive	
5	22080	2		BOLT - 12mm x 100mm	
6	22084	1		GASKET	
7	22085	1		BEARING	
8	22086	1		O-RING, bearing	
9	22081	1		COUPLING, auxiliary drive (SAE "A")	
10	22082	8		WASHER, hardened - 8mm	
11	22083	8		BOLT - 8mm x 20mm	
12	22087	1		ADAPTER	
13	22088	1		STUD, taperlock - 3/8"	
14	10802	2		WASHER, flat - 3/8"	
15	10700	2		NUT, hex - 3/8"	

☐ Kit or Assembly - includes all items indented underneath.



Parts 01987 01/11/01
18.75

SINGLE PUMP TRANSMISSION INSTALLATION (Superior)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ENGINE - Caterpillar	F.4.2
-	21967	1	□	TRANSMISSION, single pump drive	
2	21968	1		DRIVE PLATE	
3	21969	1		HOUSING	
4	22010	1		SEAL, shaft	
5	----	1		VENT	
6	----	2		SETSCREW	
7	----	4		NUT, flange - 3/4"	
8	21970	1		ADAPTER, pump drive - SAE "E"	
9	----	4		BOLT, press fit - 3/4"	
10	18385	12		STUD, threaded - 3/8" x 3/8" x1-3/4" (See note #1 below)	
11	15528	20		WASHER, SAE flat - 3/8"	
12	15530	12		NUT, hex - 10mm (See Note #2 below)	
				(Torque to 40 ft.lbs. (53 Nm))	
13	15542	8		BOLT - 3/8" x 3/4" (See Note #1 below)	
				(Torque to 40 ft.lbs. (53 Nm))	

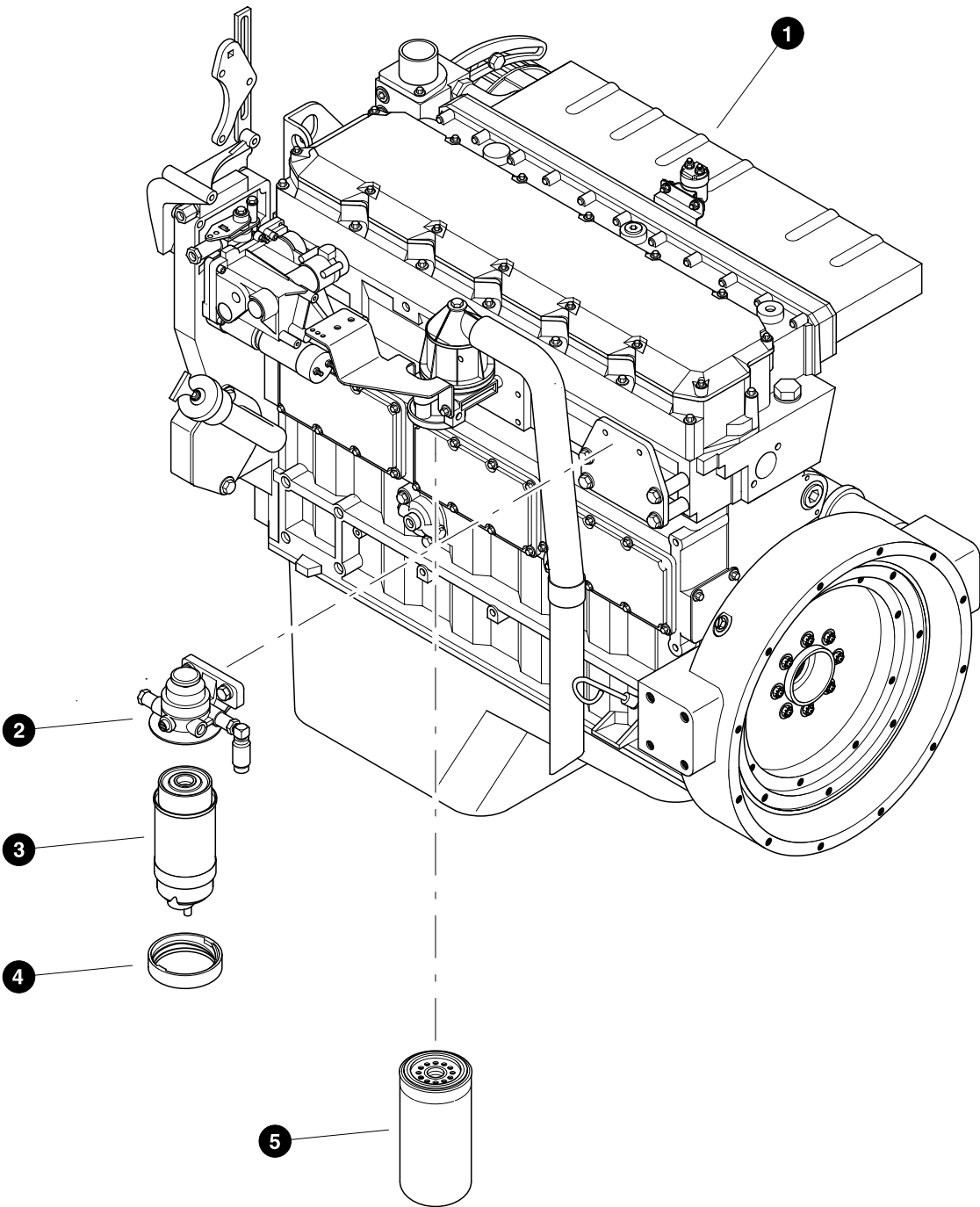
- ✓ See referenced page for component or assembly breakdown.
 □ Kit or Assembly - includes all items indented underneath.

Note #1:

Use Loctite 271 (red) during installation.

Note #2:

Use Loctite 272 (blue) during installation.



FUEL SYSTEM COMPONENTS ON ENGINE

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ENGINE - Caterpillar	F.4.2
2	- - - -	1	ℓ	FUEL/WATER SEPARATOR ASSEMBLY	
3	18944	1		ELEMENT, fuel/water separator	
4	- - - -	1	ℓ	RING, mounting	
5	18350	1		FILTER, fuel	

✓ See referenced page for component or assembly breakdown.

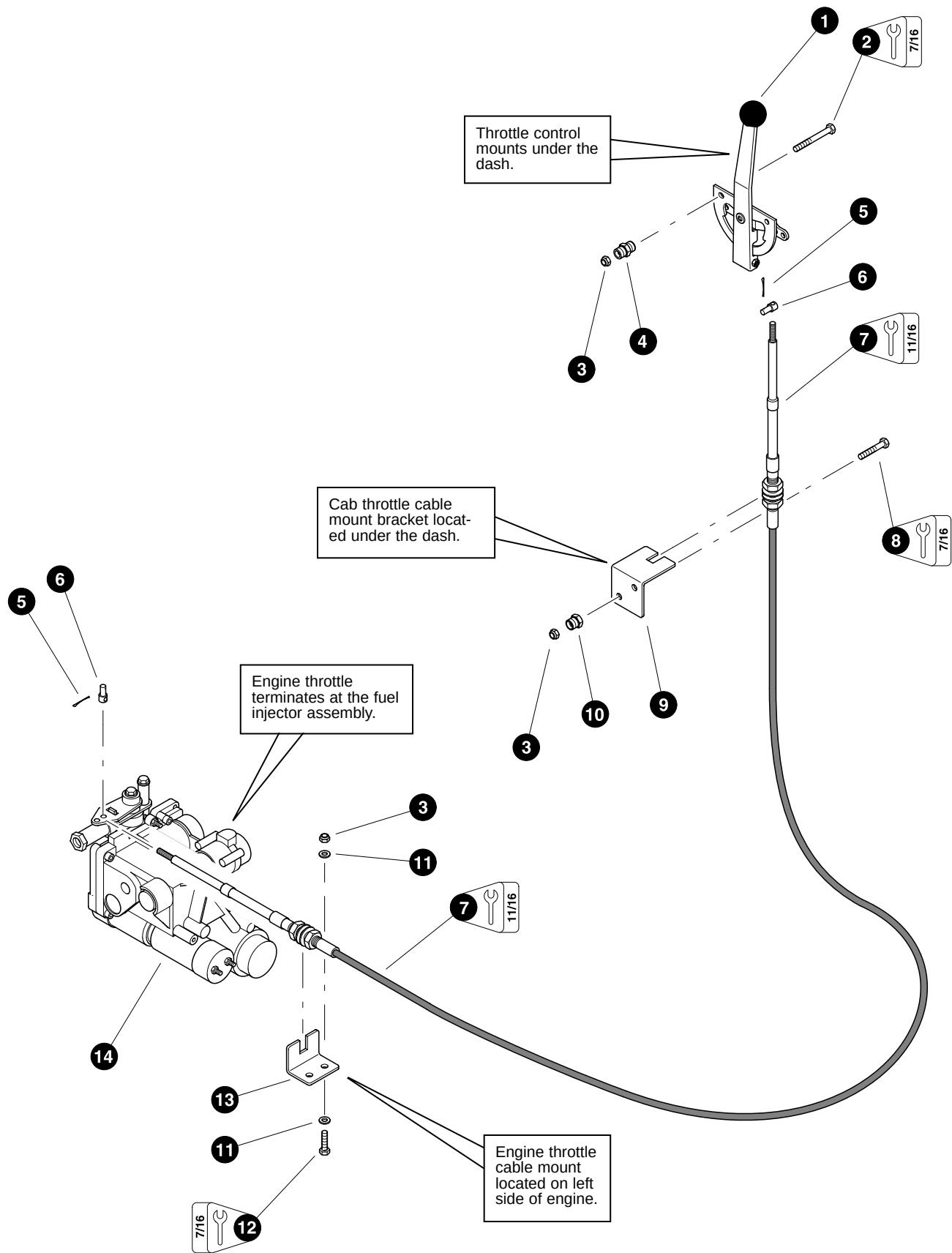
ℓ Contact your TIMBCO dealer for additional information.

FUEL LINES

(Supply & Return To Engine)

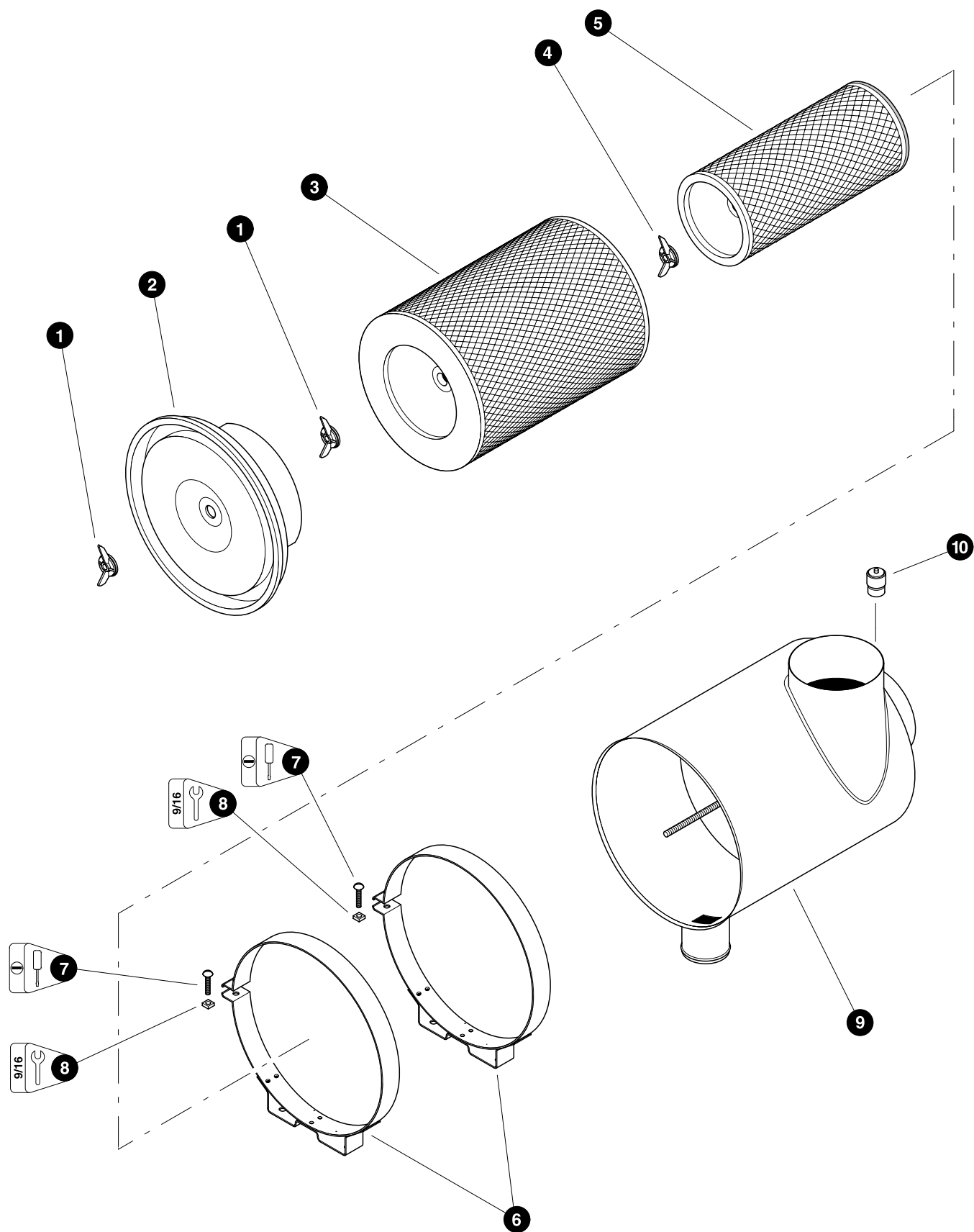
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ENGINE - Caterpillar	F.4.2
2	----	2		ELBOW, 90° (Supplied on engine)	
3	18571	2		HOSE ASSEMBLY - 2030-06-060S-060S (Fuel supply and return lines on engine)	
4	16295	2		CONNECTOR, straight - FF2031T-0604S	
5	REF.	1		FUEL/WATER SEPARATOR	F.4.12
6	20423	1		BRACKET, fuel return junction	
7	15647	2		ELBOW, 45° swivel - 1503-4-6	
8	20425	1		HOSE ASSEMBLY - 2120-06-060S-060S (Fuel return from fuel injectors on engine to tank)	
9	20424	1		HOSE ASSEMBLY - 2120-06-060S-0609 (Fuel supply from tank to fuel / water separator on engine)	
10	17572	AR	≥	SLEEVE, protective hose - 2-1/4"	
11	18481	2		ELBOW, 90° - FF2032T-0606S	
12	REF.	1	✓	FUEL TANK	F.1.2

- ✓ See referenced page for component or assembly breakdown.
 ≥ Bulk material - order length required in feet or meters.



THROTTLE CONTROL

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	15566	1	CONTROL, throttle	
2	16364	2	BOLT - 1/4" x 2-1/4"	
3	15509	6	NUT, lock - 1/4"	
4	15567	2	CONNECTOR, straight - 5404-4 (Used as spacer)	
5	15572	2	PIN, cotter	
6	15573	2	PIN, pivot throttle cable end	
7	18221	1	CABLE, throttle	
8	15575	2	BOLT - 1/4" x 1-1/2"	
9	12218	1	BRACKET, throttle cable mount - cab	
10	15574	2	BUSHING, reducer - 5406-4-2 (Used as spacer)	
11	10757	4	WASHER, SAE flat - 1/4"	
12	15576	2	BOLT - 1/4" x 1"	
13	18233	1	BRACKET, throttle cable mount - engine	
14	--	1	FUEL INJECTOR ASSEMBLY	

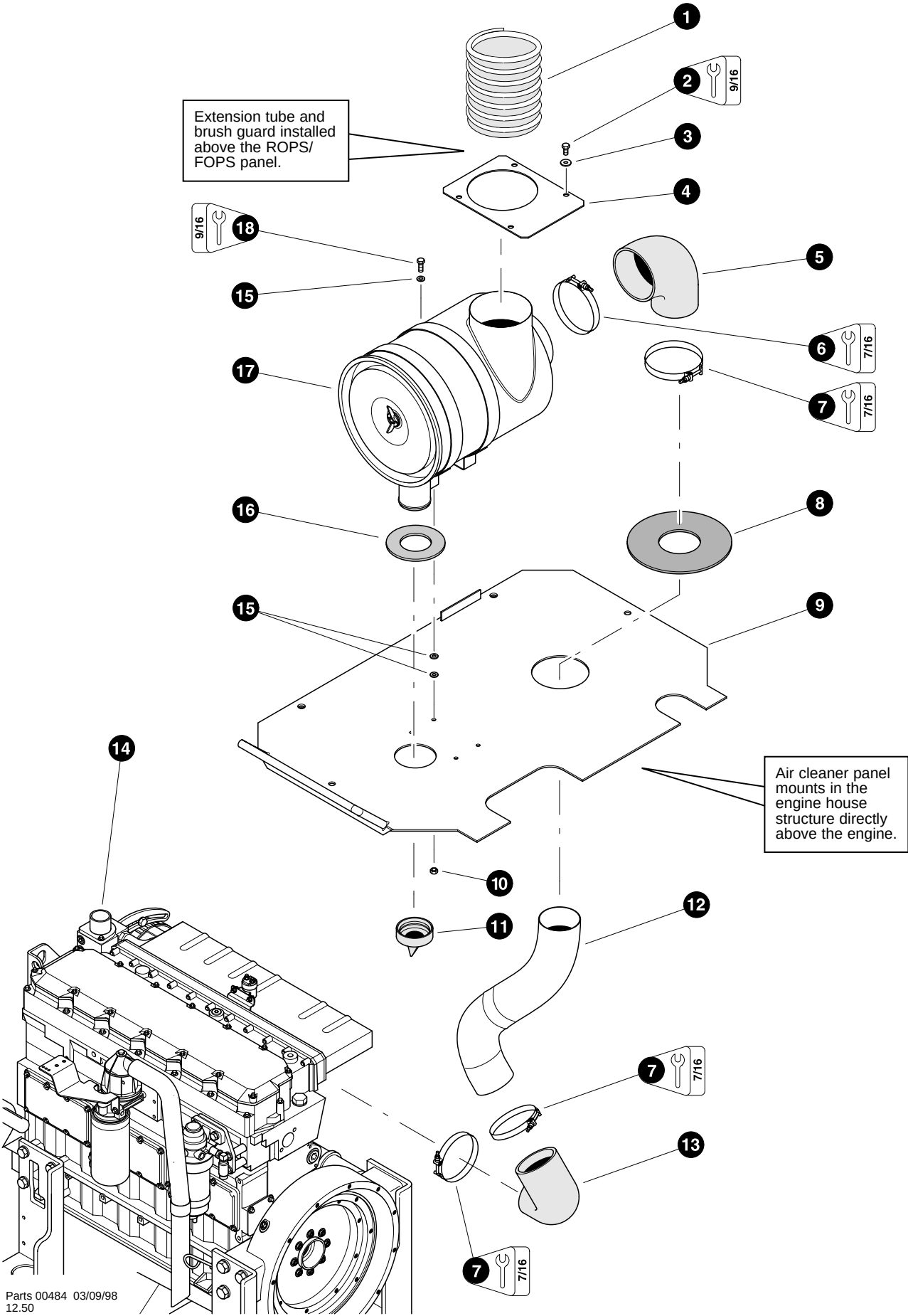


Parts 00118 08/06/96
18.75

AIR CLEANER ASSEMBLY

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	15825	1	☐	AIR CLEANER ASSEMBLY	
1	15827	2		NUT, wing - air cleaner - primary	
2	15830	1		COVER, air cleaner	
3	15809	1		FILTER, air cleaner - primary	
4	15828	1		NUT, wing - air cleaner - secondary	
5	15810	1		FILTER, air cleaner - secondary	
6	15829	2	☐	CLAMP, air cleaner band	
7	15591	1		BOLT - 5/16" x 1-1/2"	
8	10788	1		NUT, nylock - 5/16"	
9	15826	1		CANISTER, air cleaner	
10	16114	1		INDICATOR, air cleaner filter service	

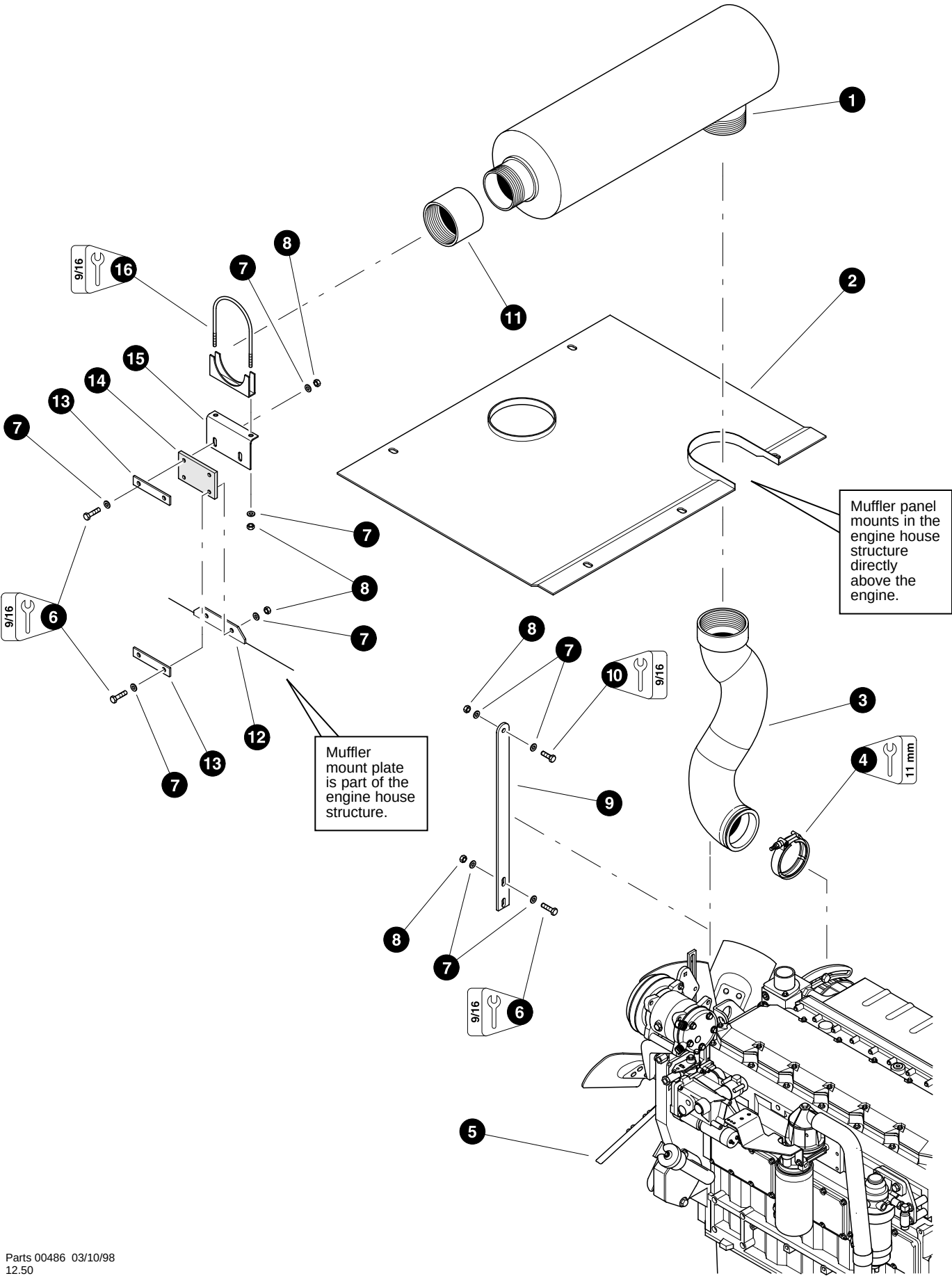
☐ Kit or Assembly - includes all items indented underneath.



AIR CLEANER INSTALLATION (Caterpillar 3126T)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	17825	1	TUBE, air cleaner extension	
2	15542	4	BOLT - 3/8" x 3/4"	
3	10802	4	WASHER, USS flat - 3/8"	
4	18833	1	GUARD, air cleaner brush	
5	15831	1	ELBOW, 90° rubber	
6	16249	1	CLAMP, strap band - 5-1/2"	
7	15697	3	CLAMP, strap band - 4-1/2"	
8	16494	1	BOOT, rubber air intake	
9	REF.	1	✓ AIR CLEANER PANEL	H.1.18
10	10813	4	NUT, lock - 3/8"	
11	16608	1	BOOT, air cleaner dust	
12	19368	1	ELBOW, steel air intake	
13	16105	1	ELBOW, 90° rubber	
14	REF.	1	✓ ENGINE - Caterpillar	F.4.2
15	15528	8	WASHER, SAE flat - 3/8"	
16	16495	1	BOOT, rubber	
17	REF.	1	✓ AIR CLEANER ASSEMBLY	F.4.20
18	11707	4	BOLT - 3/8" x 1"	

✓ See referenced page for component or assembly breakdown.

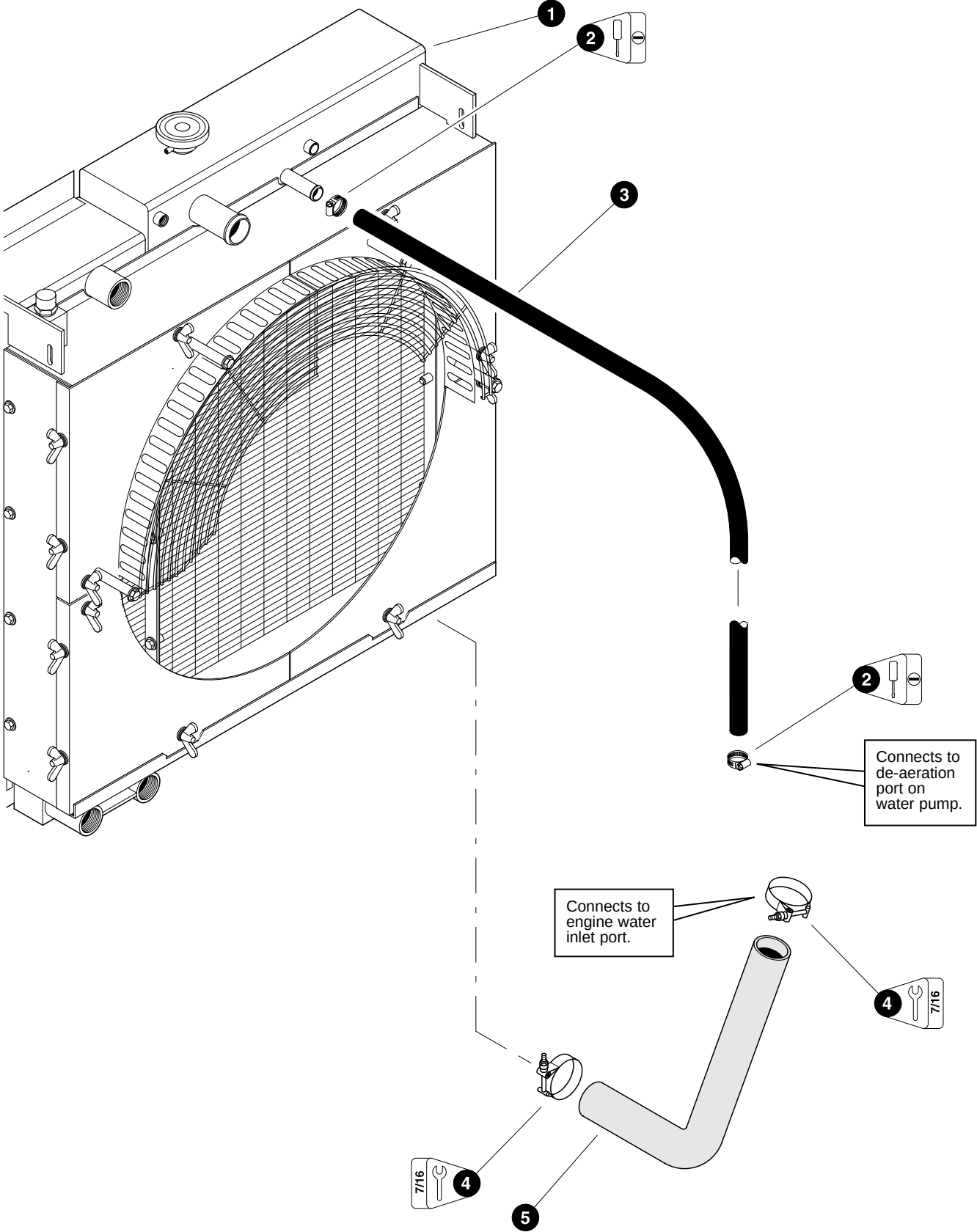


Parts 00486 03/10/98
12.50

MUFFLER INSTALLATION (Caterpillar 3126T)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	17202	1		MUFFLER	
2	REF.	1	✓	MUFFLER PANEL	H.1.18
3	18347	1		ELBOW, exhaust	
4	18382	1		CLAMP, turbo exhaust	
5	REF.	1	✓	ENGINE - Caterpillar	F.4.2
6	10731	6		BOLT - 3/8" x 1-1/2"	
7	10802	16		WASHER, flat - 3/8"	
8	10813	9		NUT, lock - 3/8"	
9	18229	1		BAR, muffler support	
10	10402	1		BOLT - 3/8" x 1-1/4"	
11	18387	1		COUPLING, black pipe - 4"	
12	12186	1		PLATE, muffler mount (Welded to engine house frame)	
13	16734	2		RETAINER, muffler rubber	
14	16572	1		RUBBER, muffler mounting	
15	18827	1		BRACKET, top muffler	
16	18830	1		CLAMP, muffler mount - 5"	

✓ See referenced page for component or assembly breakdown.

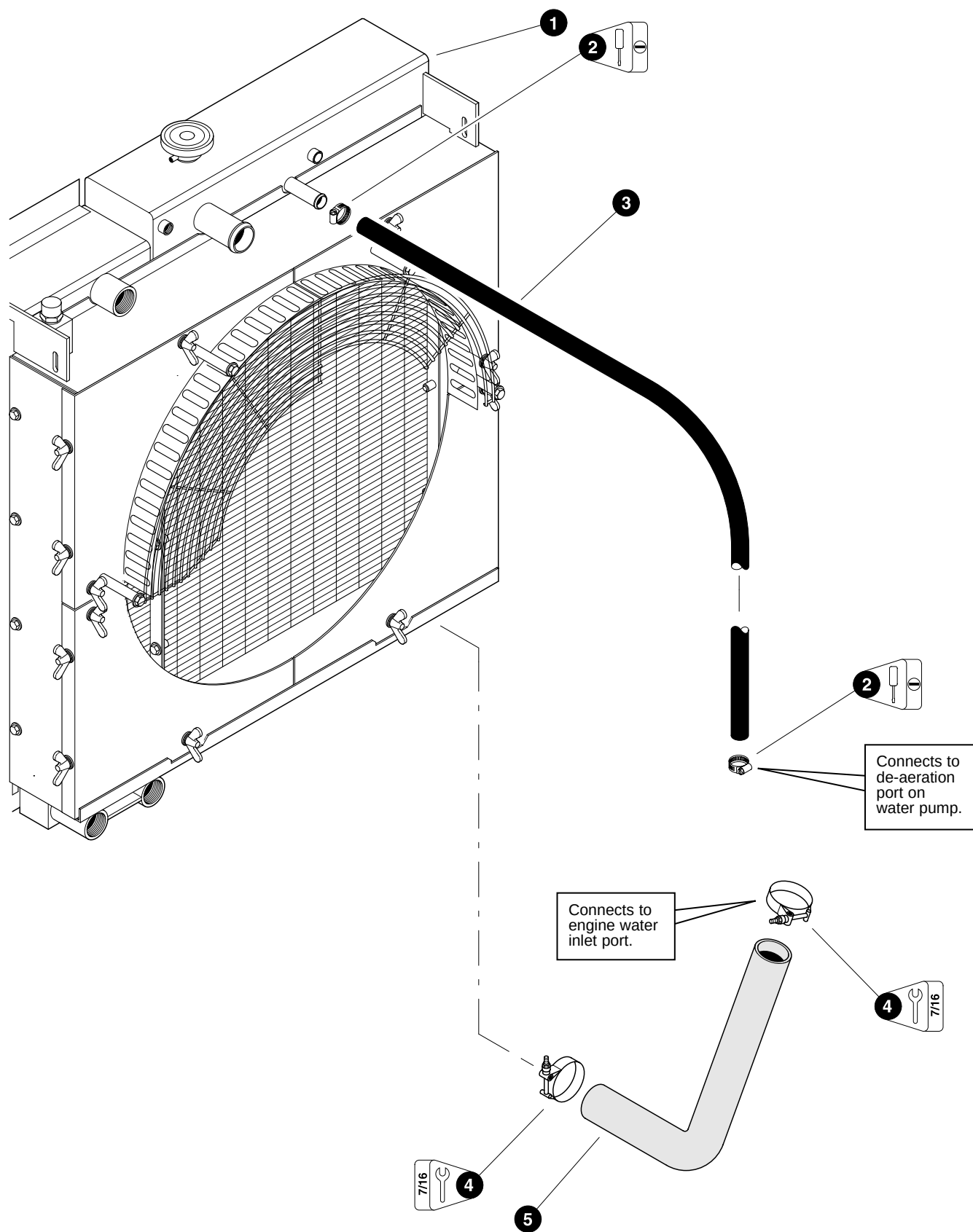


COOLING SYSTEM LINES

(Lower Radiator Connections - Karmazin)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
2	15629	2		CLAMP, hose - worm style - 1-1/2"	
3	15677	AR	>⌘	HOSE, heater - 1"	
4	18651	2		CLAMP, constant torque - #32	
5	18345	1		HOSE, 90° lower radiator	

- ✓ See referenced page for component or assembly breakdown.
 >⌘ Bulk material - order length required in feet or meters.



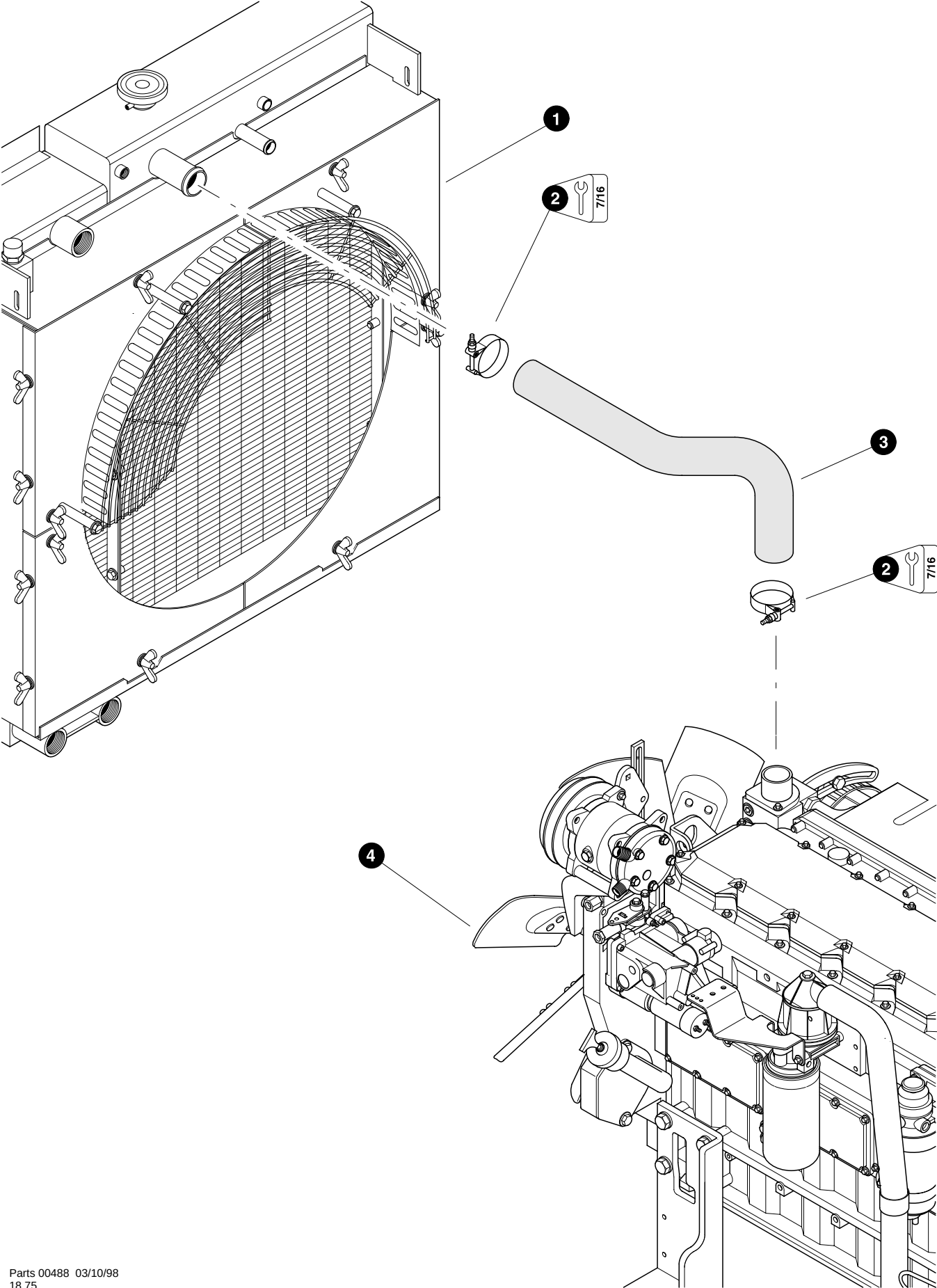
Parts 00487 03/10/98
18.75

COOLING SYSTEM LINES

(Lower Radiator Connections - Thermal Dynamic)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
2	16256	2		CLAMP, hose - worm style - 1"	
3	22184	AR	>⌘	HOSE, heater - 3/4"	
4	18651	2		CLAMP, constant torque - #32	
5	18345	1		HOSE, 90° lower radiator	

- ✓ See referenced page for component or assembly breakdown.
 >⌘ Bulk material - order length required in feet or meters.



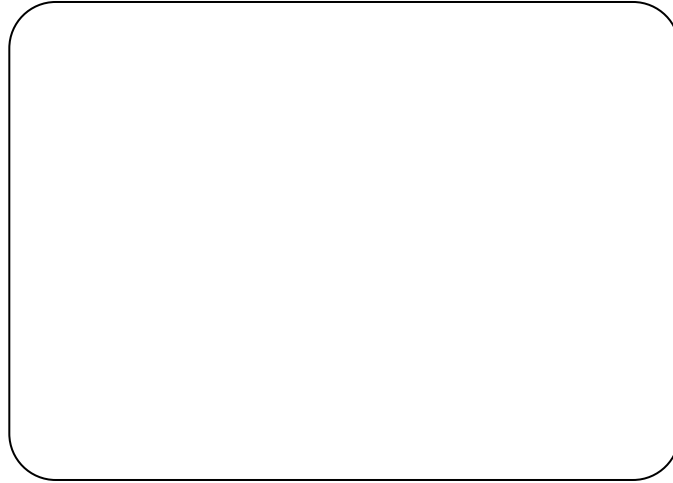
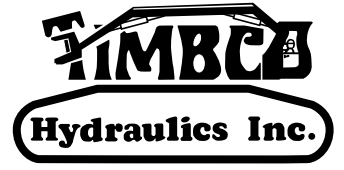
Parts 00488 03/10/98
18.75

COOLING SYSTEM LINES (Upper Radiator Connections)

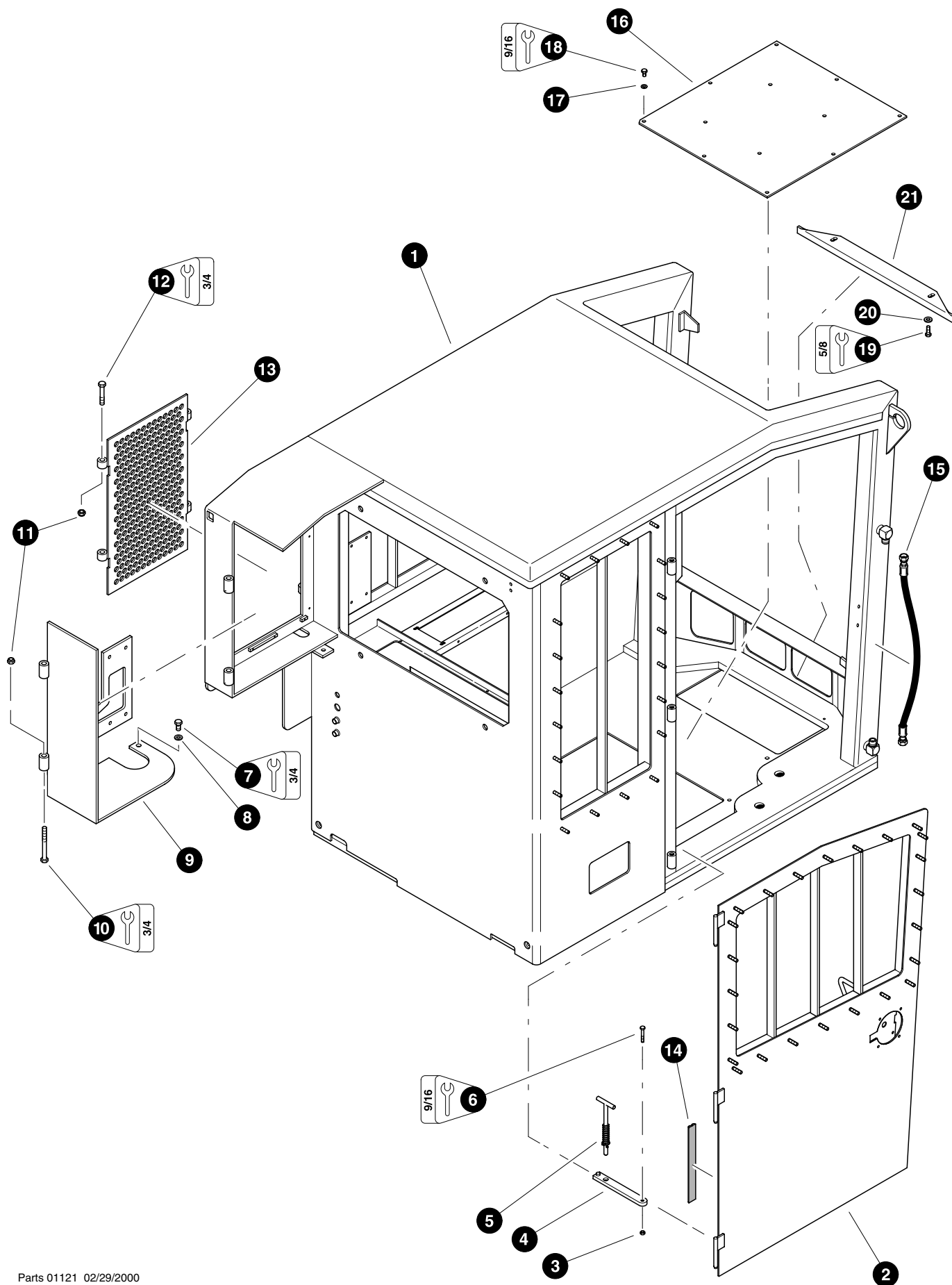
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
2	18651	2		CLAMP, constant torque - #32	
3	18346	1		HOSE, upper radiator	
5	REF.	1	✓	ENGINE - Caterpillar	F.4.2

✓ See referenced page for component or assembly breakdown.

Section G.1



Operator's Cab - Cab Weldment Installation



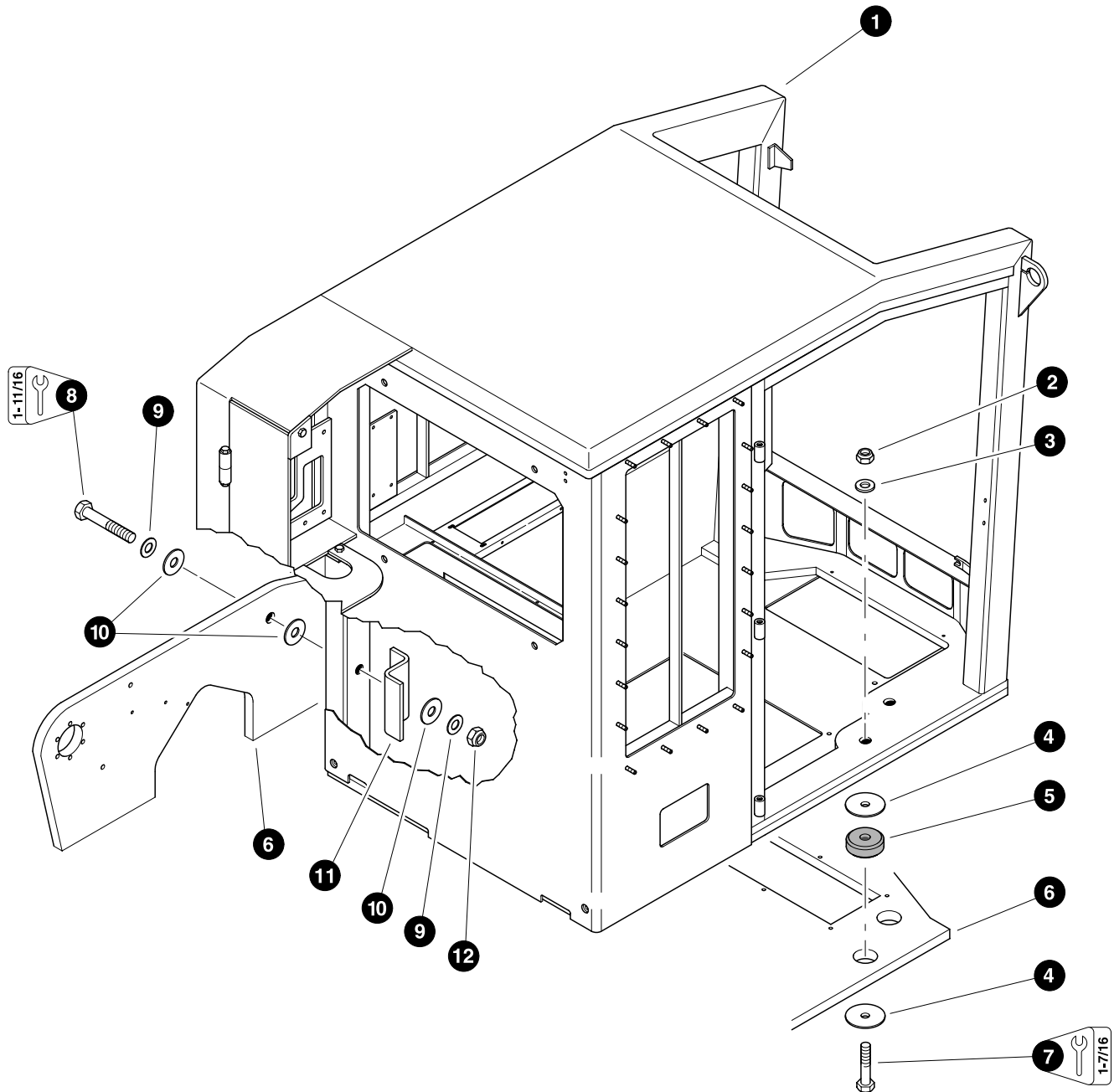
Parts 01121 02/29/2000
9.375

CAB WELDMENT ASSEMBLY (Skyview Cab)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	21346	1	☐	WELDMENT, stretched short-top cab	
2	22292	1		DOOR, cab	
3	15507	1		NUT, nylock - 3/8"	
4	12424	1		BAR, doorstop slide	
5	12423	1		DOORSTOP, T-handle	
6	15529	1		BOLT - 3/8" x 2"	
7	10783	1		BOLT - 1/2" x 1"	
8	15334	1		WASHER, SAE flat - 1/2"	
9	20216	1		BRACKET, fire suppression mounting	
10	10705	2		BOLT - 1/2" x 5"	
11	15533	6		NUT, nylock - 1/2"	
12	10893	4		BOLT - 1/2" x 3"	
13	20214	1		COVER, access - condensor	
14	18126	AR	✂	WEATHERSTRIP	
15	20071	1		HOSE ASSEMBLY - 2032.5-08-10JS-10JS (<i>Used as hand hold</i>)	
16	22105	1		COVER, floor access	
17	15528	8		WASHER, SAE flat - 3/8"	
18	15542	8		BOLT - 3/8" x 3/4"	
19	10831	2		BOLT - 7/16" x 1"	
20	15548	2		WASHER, SAE flat - 7/16"	
21	20974	1		GUARD, cab chin	

☐ Kit or Assembly - includes all items indented underneath.

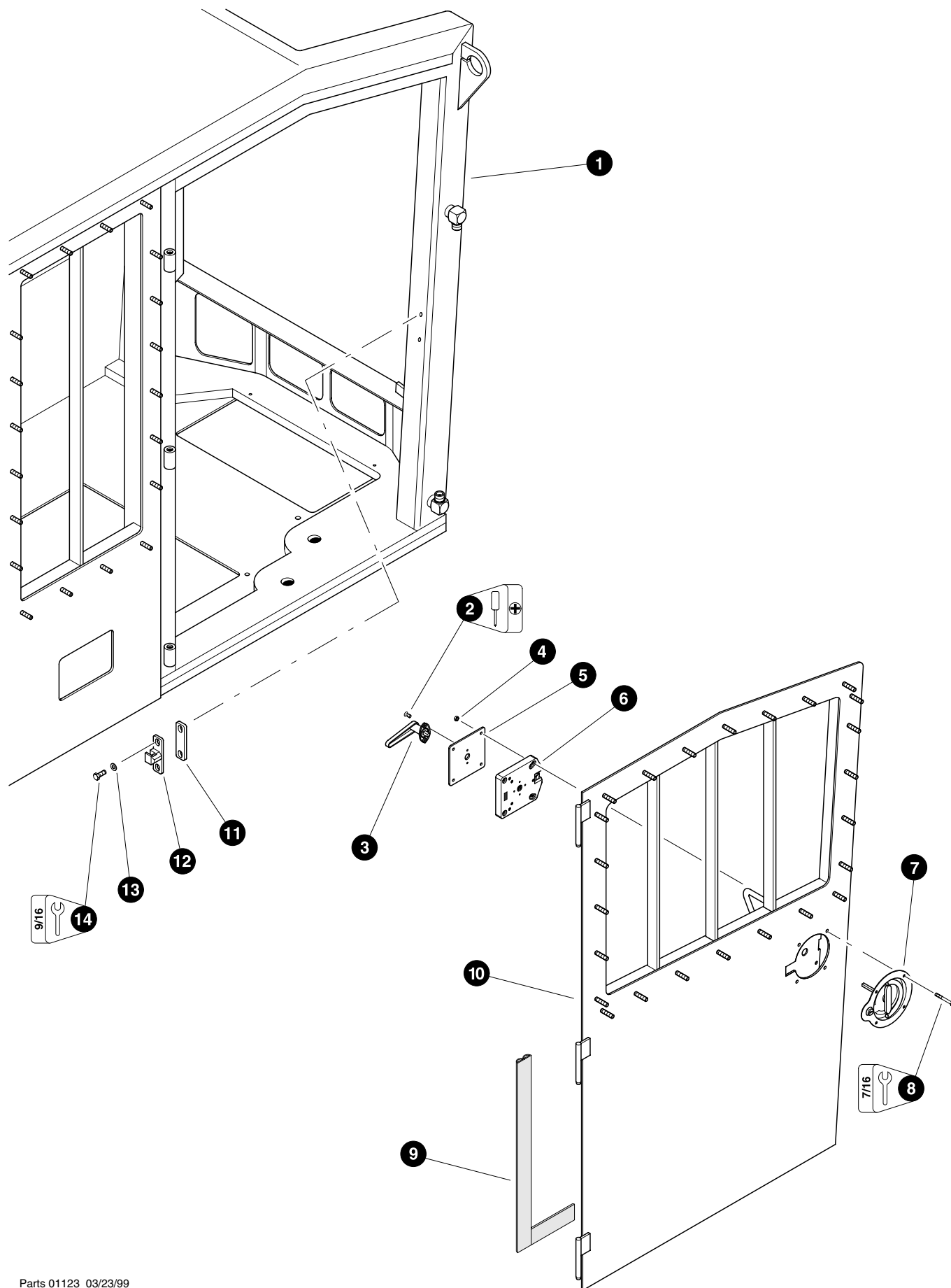
✂ Bulk material - order length required in feet or metres.



CAB WELDMENT INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	CAB WELDMENT	G.1.2
2	18535	6		BOLT - 1" x 5"	
3	15579	6		WASHER, SAE flat - 1"	
4	18142	12		WASHER, cab mount isolator	
5	19295	6		ISOLATOR, cab mount	
6	REF.	1	✓	UPPER TURNTABLE WELDMENT	H.1.2
7	18253	6		NUT, lock - 1"	
8	17247	1		BOLT - 1-1/8" x 7-1/2"	
9	16935	2		WASHER, SAE flat - 1-1/8"	
10	17065	3		WASHER, rubber	
11	18214	1		BRACKET, cab ROPS/FOPS support	
12	17248	1		NUT, lock - 1-1/8"	

✓ See referenced page for component or assembly breakdown.



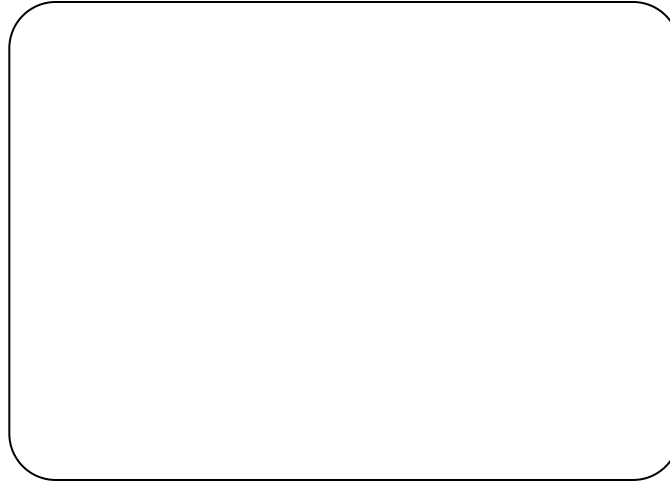
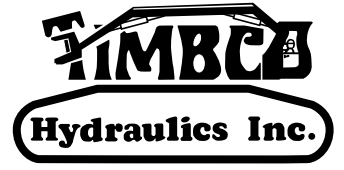
Parts 01123 03/23/99
12.50

DOOR LATCH INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	CAB WELDMENT	G.1.2
2	15669	1		SCREW, machine - #10-24 x 1/2"	
3	17897	1		HANDLE, inside door	
4	10811	4		NUT, lock - 1/4"	
5	18183	1		STIFFNER, latch bolster	
6	17895	1		LATCH, door	
7	19248	1		HANDLE, outside door	
	16939	1		KEY, door (Key code CH509)	
	18399	1		KEY, door (Key code CH510)	
	16937	1		KEY, door (Key code CH545)	
	16940	1		KEY, door (Key code CH1250)	
8	18273	4		BOLT - 1/4" x 2-3/4"	
9	REF.	1	✓	CAB DOOR	G.1.2
10	18126	AR	✂	WHEATHERSTRIP, door	
11	18272	1		SHIM, door latch striker - 1/8"	
	18270	1		SHIM, door latch striker - 3/16"	
	18271	1		SHIM, door latch striker - 1/4"	
	18390	1		SHIM, door latch striker - 5/16"	
12	17896	1		STRIKER, door latch	
13	15528	2		WASHER, SAE flat - 3/8"	
14	10402	2		BOLT - 3/8" x 1-1/4"	

- ✓ See referenced page for component or assembly breakdown.
✂ Bulk material - order length required in feet or metres.

Section G.2

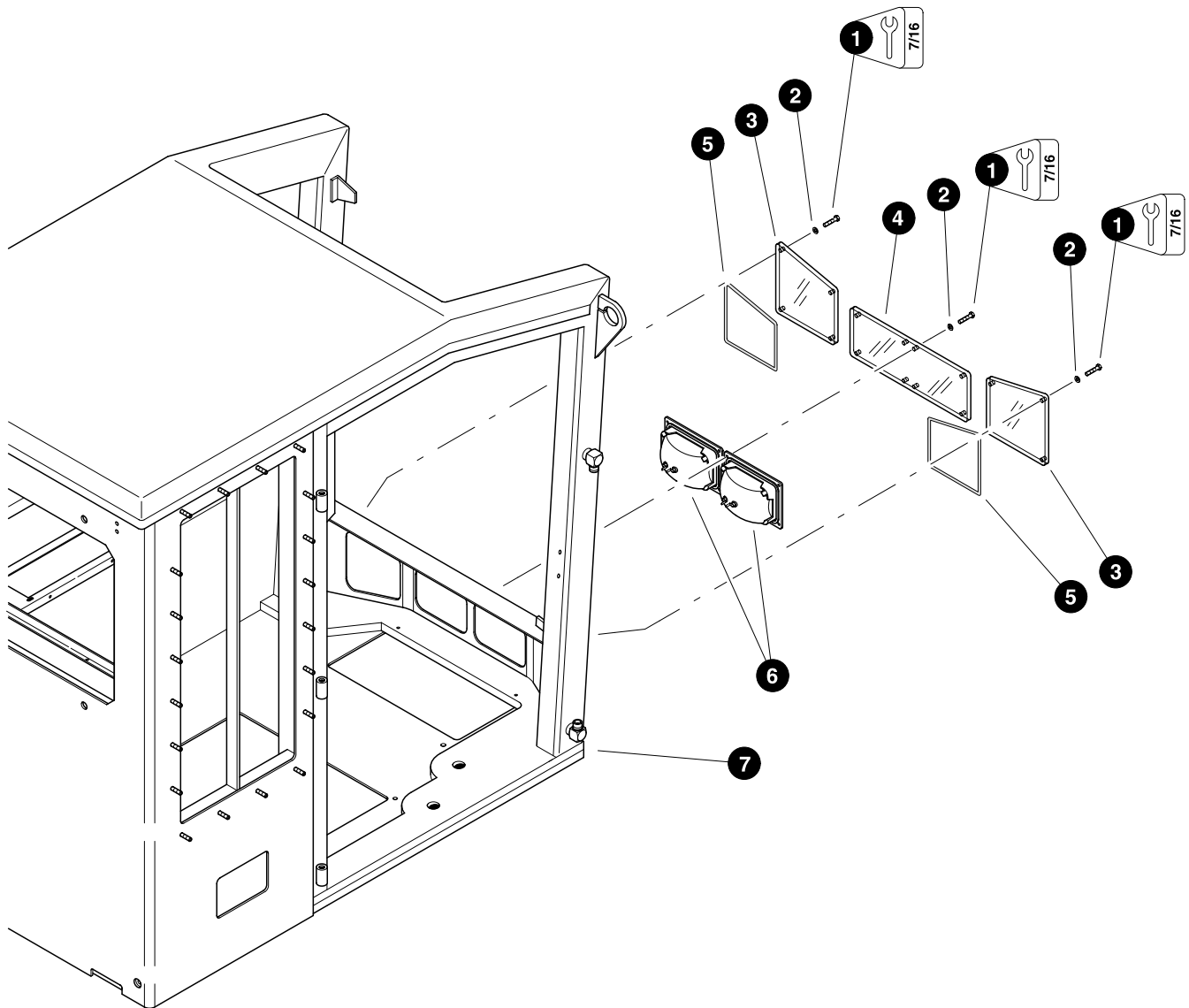


Operator's Cab - Window Installation

WINDOW INSTALLATION (Right Side Rear & Door)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	CAB WELDMENT	G.1.2
2	16230	AR	✂	CHANNEL, window molding	
3	22205	1		LEXON, door window	
4	15528	46		WASHER, SAE flat - 3/8"	
5	15507	46		NUT, nylock - 3/8"	
6	22099	1		FRAME, door window	
7	19023	1		FRAME, right corner window	
8	19019	1		LEXAN, RH corner window	
9	18309	4		BOLT - 1/4" x 1-1/4"	
10	10757	4		WASHER, SAE flat - 1/4"	
11	16811	1		LEXAN, light guard	
12	16044	1		LIGHT, flush mount	

- ✓ See referenced page for component or assembly breakdown.
 ✂ Bulk material - order length required in feet or metres.



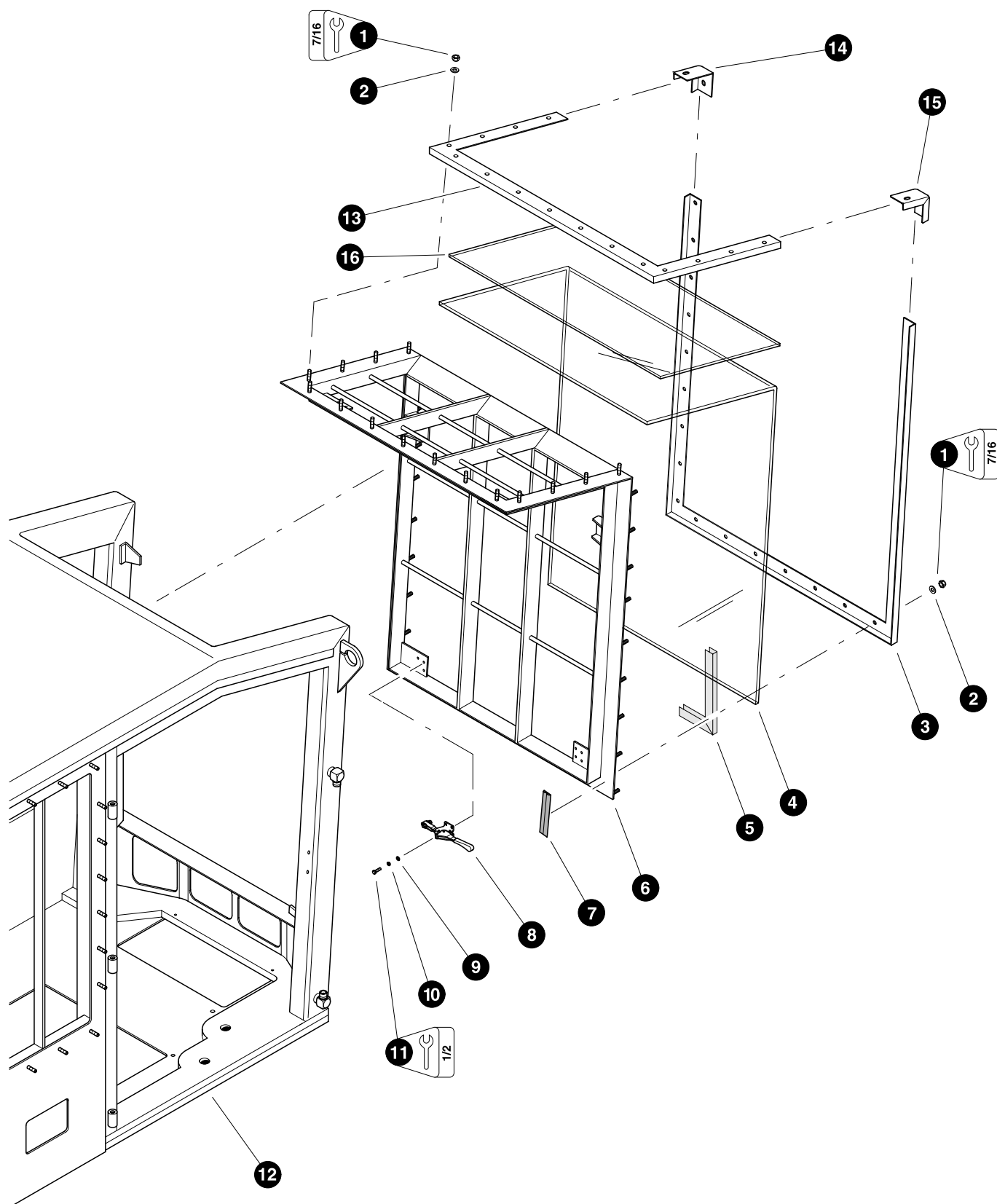
Parts 01125 03/24/99
9.375

WINDOW INSTALLATION (Lower Chin)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	18309	20		BOLT - 1/4" x 1-1/4"	
2	10757	20		WASHER, SAE flat - 1/4"	
3	18190	2		LEXON, chin window	
4	18189	1		LEXON, light guard - double	
5	15695	AR	✂	WEATHERSTRIP	
6	16044	2		LIGHT, flush mount	
7	REF.	1	✓	CAB WELDMENT	G.1.2

✂ Bulk material - order length required in feet or metres.

✓ See referenced page for component or assembly breakdown.



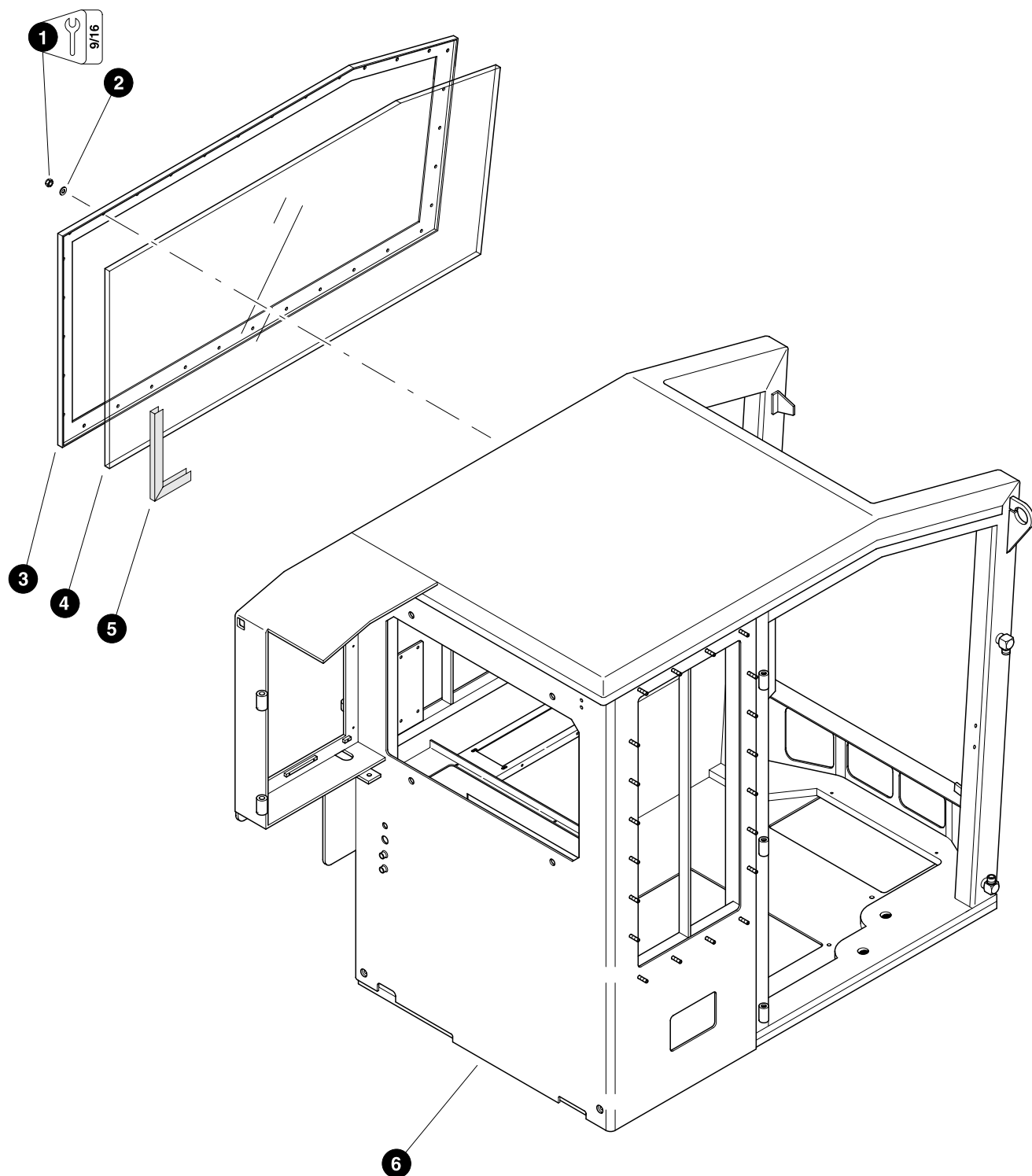
Parts 01128 07/29/99
9.375

WINDOW INSTALLATION (Front Escape / Skylight)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15507	40		NUT, nylock - 3/8"	
2	15528	40		WASHER, SAE flat - 3/8"	
3	22101	1		FRAME, front window	
4	22107	1		LEXON, front window/skylight	
5	16230	AR	✂	CHANNEL, window molding	
6	22106	1		HATCH, front window escape	
7	18126	AR	✂	WEATHERSTRIP	
8	22303	6		LATCH, toggle - escape hatch	
9	10757	24		WASHER, SAE flat - 1/4"	
10	10756	24		WASHER, lock - 1/4"	
11	15604	24		BOLT - 1/4" x 3/4"	
12	REF.	1	✓	CAB WELDMENT	G.1.2
13	22102	1		FRAME, skylight window	
14	22104	1		FRAME, front window angle - LH	
15	22103	1		FRAME, front window angle - RH	
16	22407	1		LEXON, sky scratch	

✂ Bulk material - order length required in feet or metres.

✓ See referenced page for component or assembly breakdown.



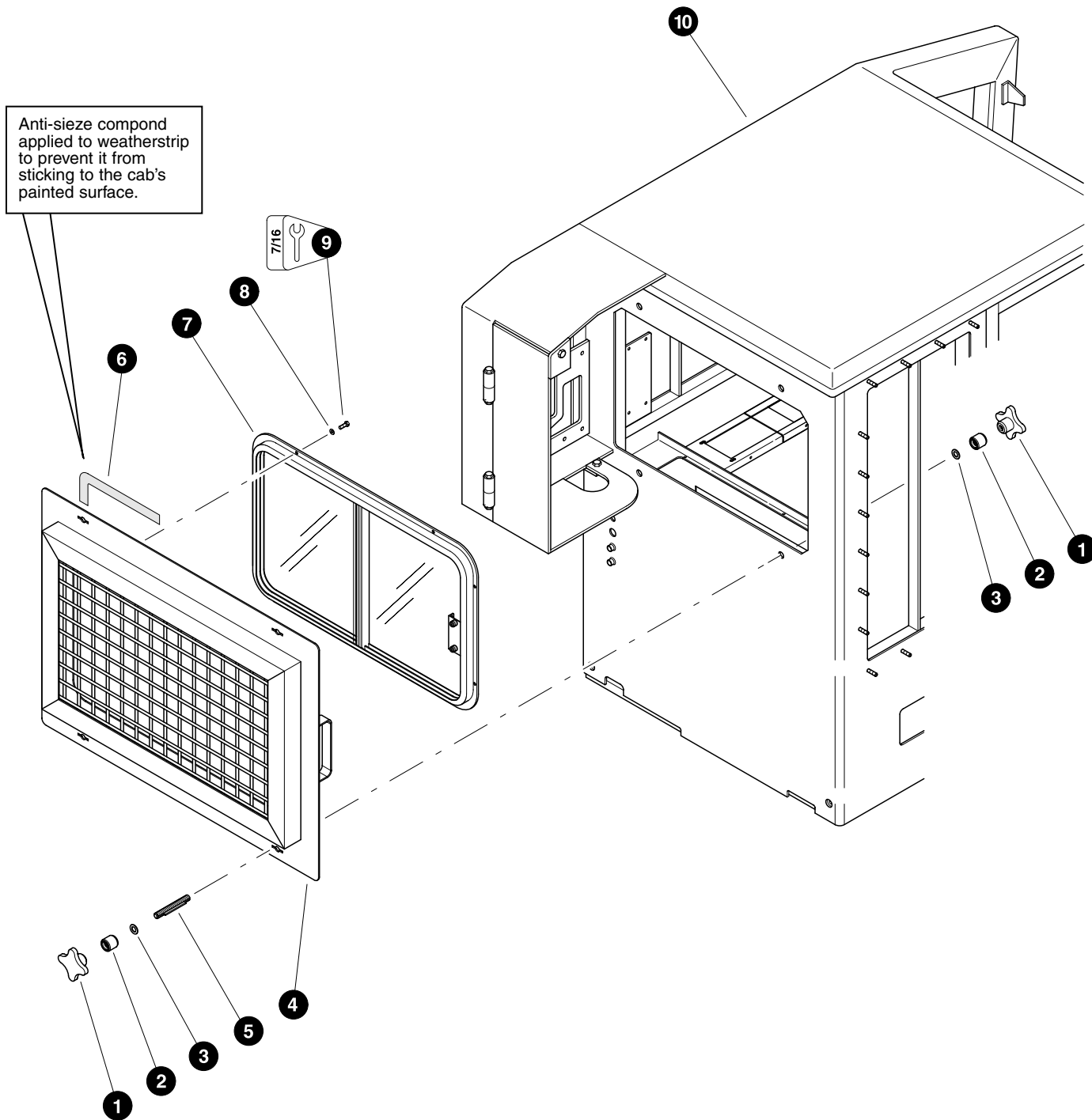
Parts 01126 03/24/99
9.375

WINDOW INSTALLATION (Left Side)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15507	33		NUT, nylock - 3/8"	
2	15528	33		WASHER, SAE flat - 3/8"	
3	22100	1		FRAME, left side window	
4	22206	1		LEXON, left side window	
5	16230	AR		CHANNEL, window molding	
6	REF.	1	✓	CAB WELDMENT	G.1.2

✓ See referenced page for component or assembly breakdown.

 Bulk material - order length required in feet or metres.



WINDOW INSTALLATION

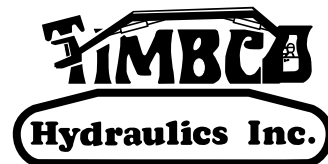
(Rear Sliding & Emergency Escape)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	12013	2		KNOB, star	
2	16539	2		STAND-OFF	
3	15534	2		WASHER, SAE flat - 1/2"	
4	16858	1		GUARD, rear window	
5	16538	1		STUD, 2-way	
6	15694	AR	✂	WEATHERSTRIP	
7	16423	1		WINDOW, sliding w/frame	
8	10757	8		WASHER, SAE flat - 1/4"	
9	15604	8		BOLT - 1/4" x 3/4"	
10	REF.	1	✓	CAB WELDMENT	G.1.2

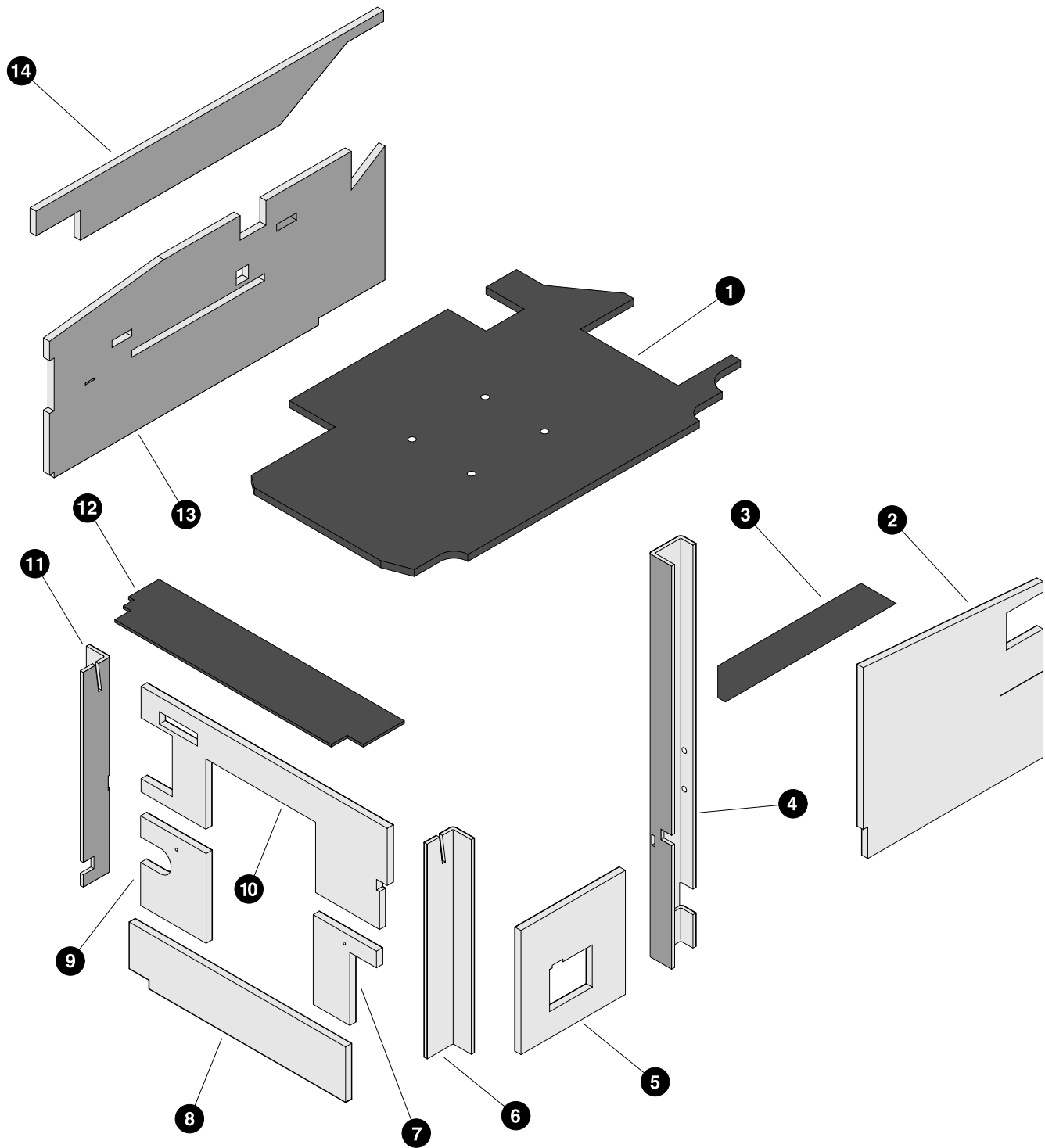
✂ Bulk material - order length required in feet or metres.

✓ See referenced page for component or assembly breakdown.

Section G.3



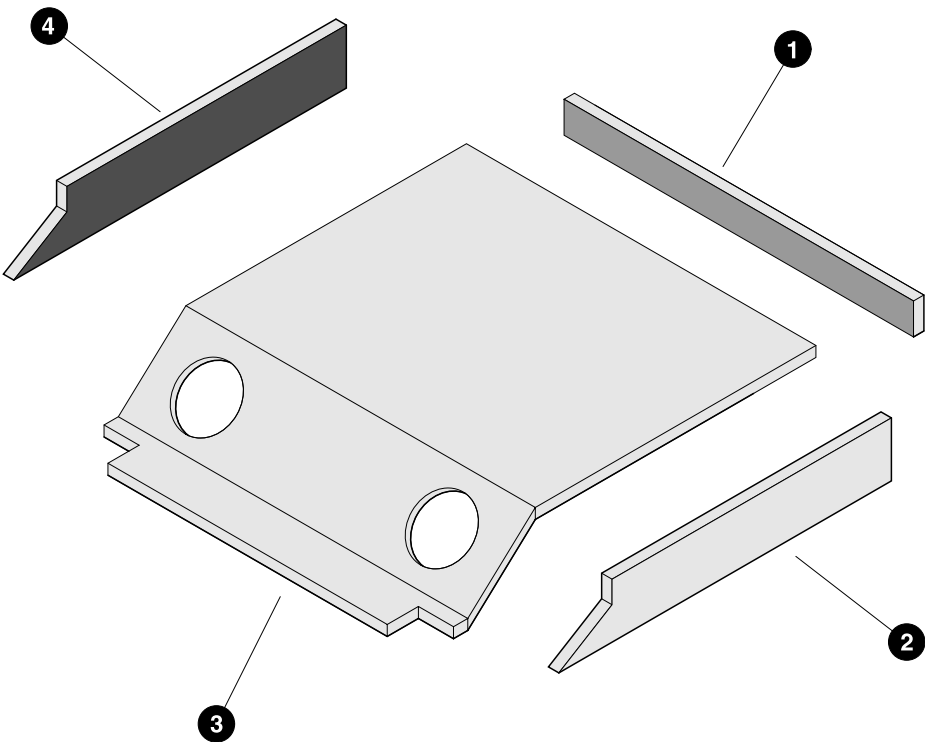
Operator's Cab - Interior Components



Parts 01856 10/01/2000
9.375

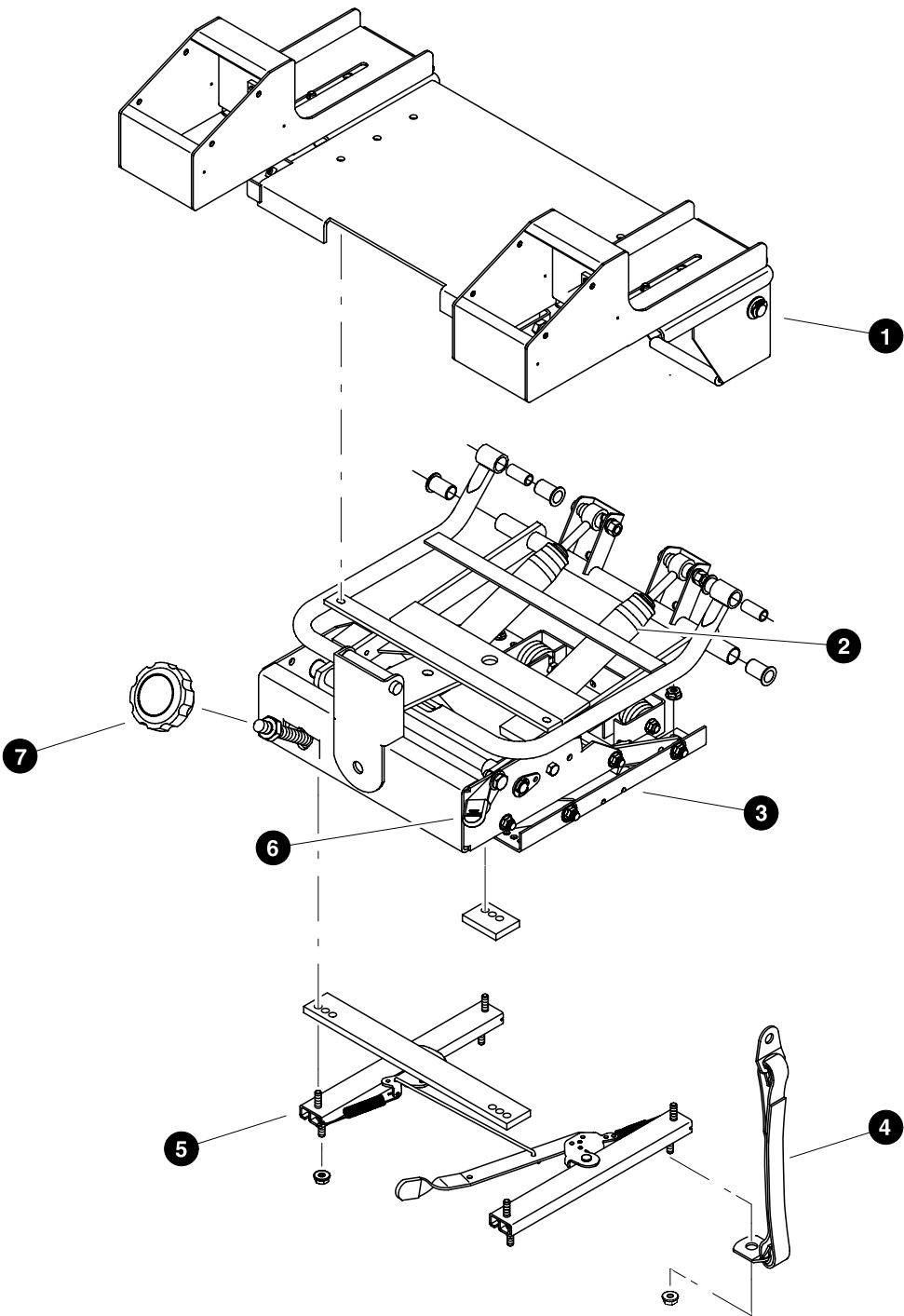
INTERIOR TRIM & FLOORMAT (Lower Areas)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	19887	1	FLOORMAT, cab	
2	19879	1	TRIM, panel - door	
3	17358	1	FLOORMAT, door tray	
4	19880	1	TRIM, formed - door post	
5	20225	1	TRIM, panel - RH light	
6	19881	1	TRIM, formed - RH rear post (Cut to length required)	
7	20226	1	TRIM, panel - A/C - RH	
8	20227	1	TRIM, panel - rear bottom	
9	20228	1	TRIM, panel - A/C - LH	
10	20229	1	TRIM, panel - rear top	
11	19882	1	TRIM, formed - LH rear post (Cut to length required)	
12	20230	1	FLOORMAT, rear shelf	
13	20231	1	TRIM, panel - LH bottom	
14	20232	1	TRIM, panel - LH top	



**INTERIOR TRIM & FLOORMAT
(Headliner Areas)**

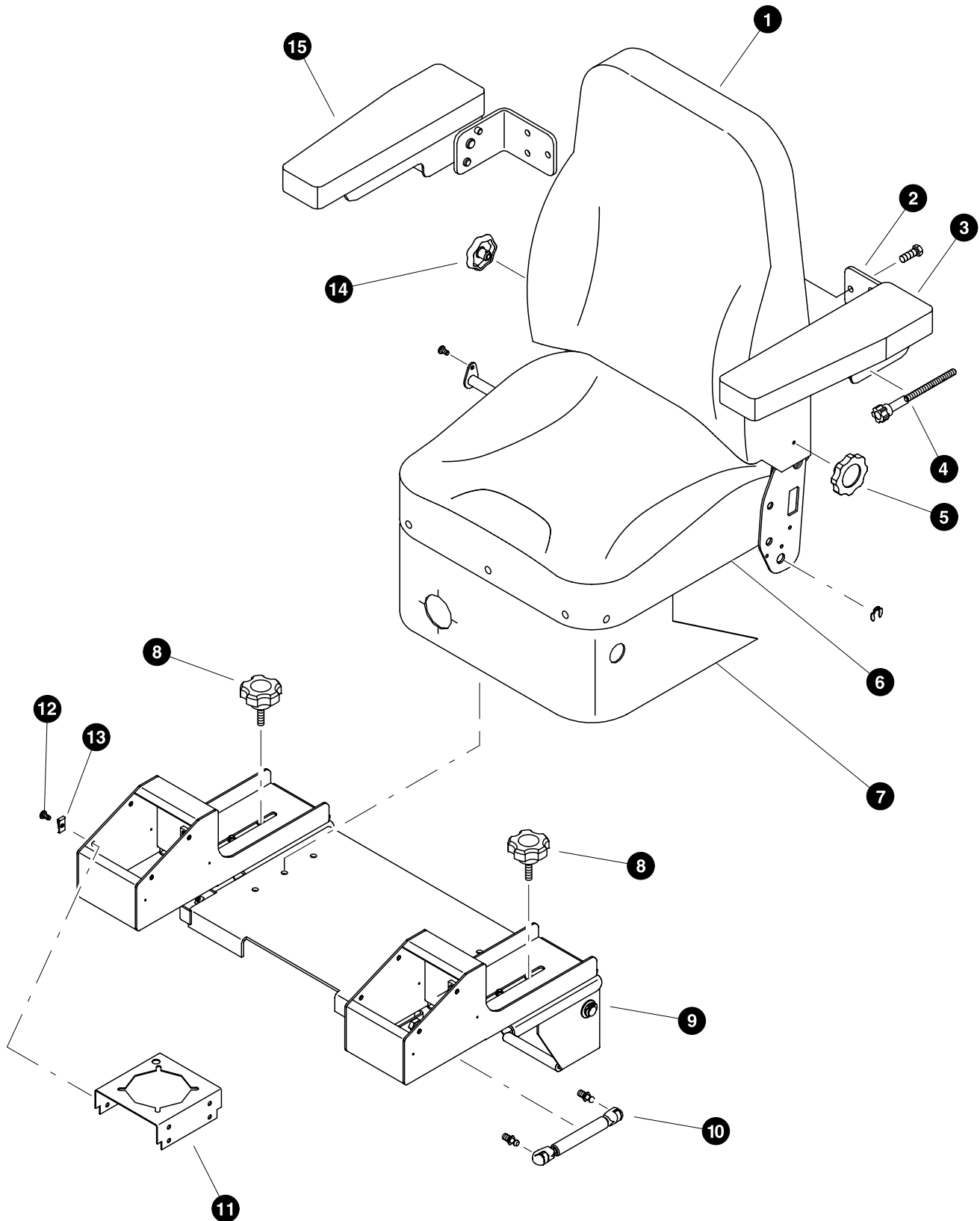
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	22309	1	TRIM, panel - headliner roof beam	
2	22310	1	TRIM, panel - headliner side strip - RH	
3	22312	1	TRIM, panel - headliner roof	
4	22311	1	TRIM, panel - headliner side strip - LH	



OPERATOR'S SEAT ASSEMBLY
(Lower Components)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	23070	1	☐	SEAT ASSEMBLY	
1	22051	1		CARRIAGE, control (Assembly)	
2	22052	2		KIT, shock absorber	
3	22053	1		CHASSIS, severe duty	
4	22054	2		TETHER (Includes hardware)	
5	22055	1		KIT, track set - 6"	
6	22056	1		LEVER, height adjustment (Includes hardware)	
7	22057	1		KNOB, ride adjustment	

☐ Assembly or Kit - includes all items indented underneath.

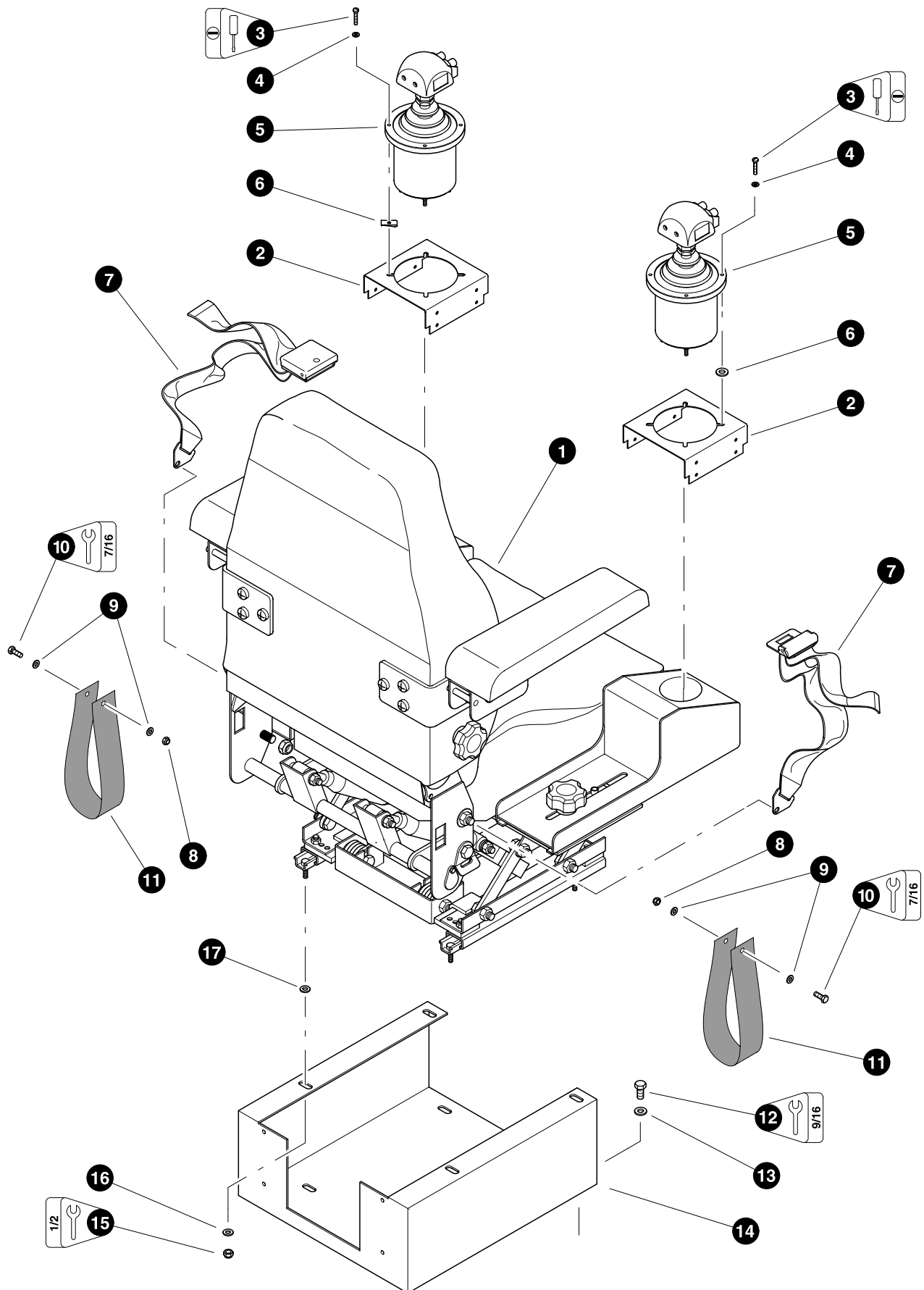


Parts 02102 03/15/2001
18.75

OPERATOR'S SEAT ASSEMBLY (Upper Components)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	23070	1	☐	SEAT ASSEMBLY	
-	24307	1	☐	SEAT BACK ASSEMBLY	
1	22058	1		COVER, seat back	
2	22059	1		KIT, arm pad set (Includes brackets and hardware for LH & RH arm rests)	
3	22060	1		PAD, arm rest - LH	
4	22062	2		KNOB, front arm adjustment	
5	22063	1		KNOB, recliner (Includes hardware)	
6	22064	1		CUSHION, seat	
7	22065	1		SKIRT, seat	
8	22066	2		KNOB, control carriage lock (Includes hardware)	
9	REF.	1	✓	CONTROL CARRIAGE	G.3.8
10	22067	2		SPRING, gas	
11	REF.	2		JOYSTICK MOUNTING BRACKET	G.3.12
12	22068	8		SCREW, MACHINE - 1/4" - 5/8"	
13	22069	8		NUT, speed - 1/4"	
14	22070	1		KNOB, lumbar support adjustment	
15	22061	1		PAD, arm rest - RH	
				Items not shown in illustration...	
-	22071	1		SKIRT, joystick mount - LH	
-	22072	1		SKIRT, joystick mount - RH	

- ☐ Assembly or Kit - includes all items indented underneath.
☒ See referenced page for component or assembly breakdown.

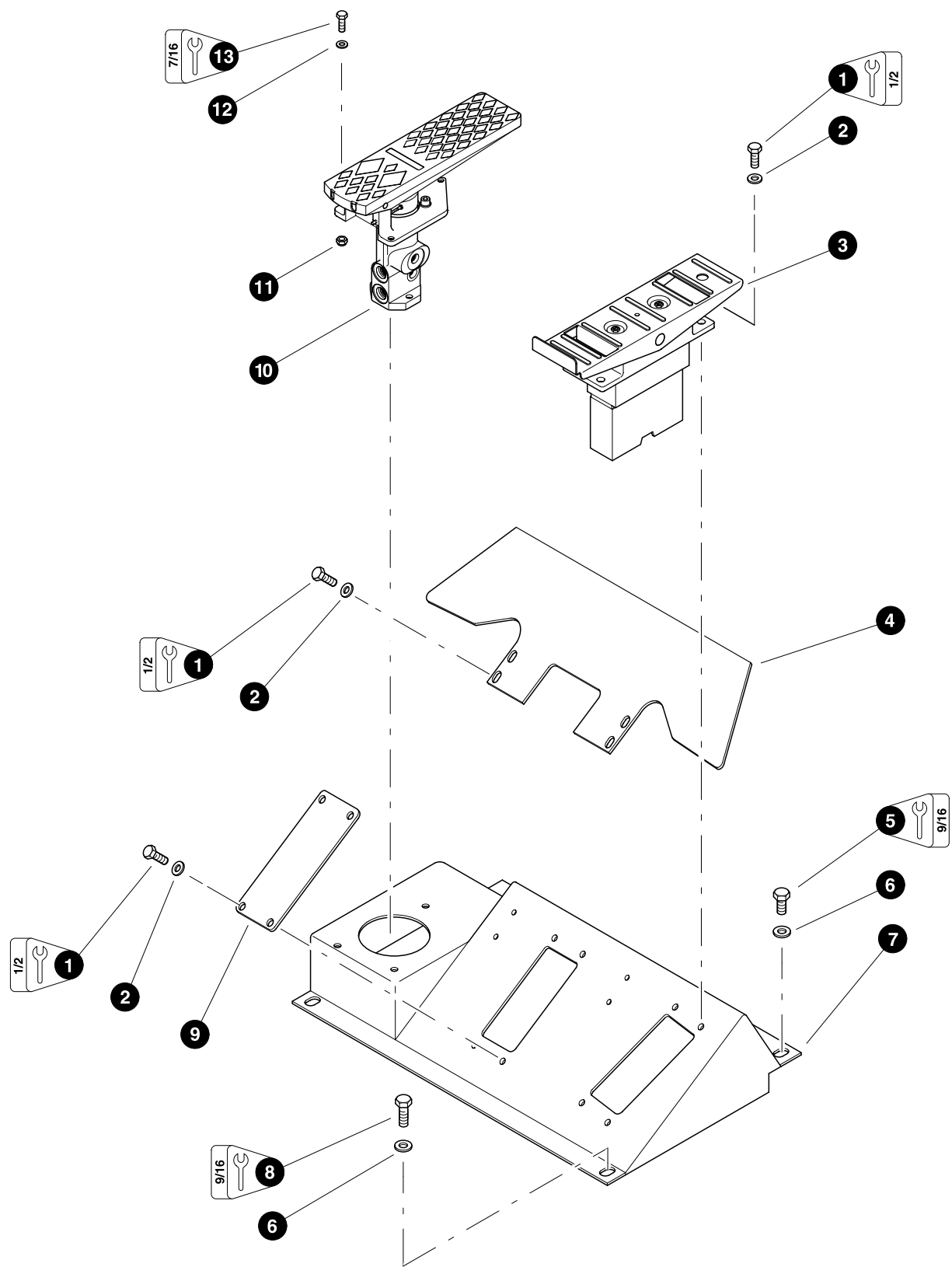


Parts 01591 02/28/2000
18.75

OPERATOR'S SEAT INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	SEAT ASSEMBLY	G.3.6
2	19254	1	✓	BRACKET, joystick mounting	
3	15663	8		SCREW, machine - #10-24 x 1"	
4	16208	8		WASHER, flat - #10	
5	REF.	2	✓	HAND CONTROL JOYSTICK	J.2.4
6	16208	8		WASHER, flat - #10	
7	18006	4		BELT, seat - 3" wide	
8	15509	2		NUT, nylock - 1/4"	
9	10800	4		WASHER, flat - 1/4"	
10	15604	2		BOLT - 1/4" x 3/4"	
11	20244	2		BELT, hose strap	
12	10402	4		BOLT - 3/8" x 1-1/4"	
13	15528	4		WASHER, SAE flat - 3/8"	
14	19626	1		BRACKET, seat mounting	
15	10788	4		NUT, nylock - 5/16"	
16	10801	4		WASHER, SAE flat - 5/16"	
17	10803	4		WASHER, flat - 7/16"	

✓ See referenced page for component or assembly breakdown.

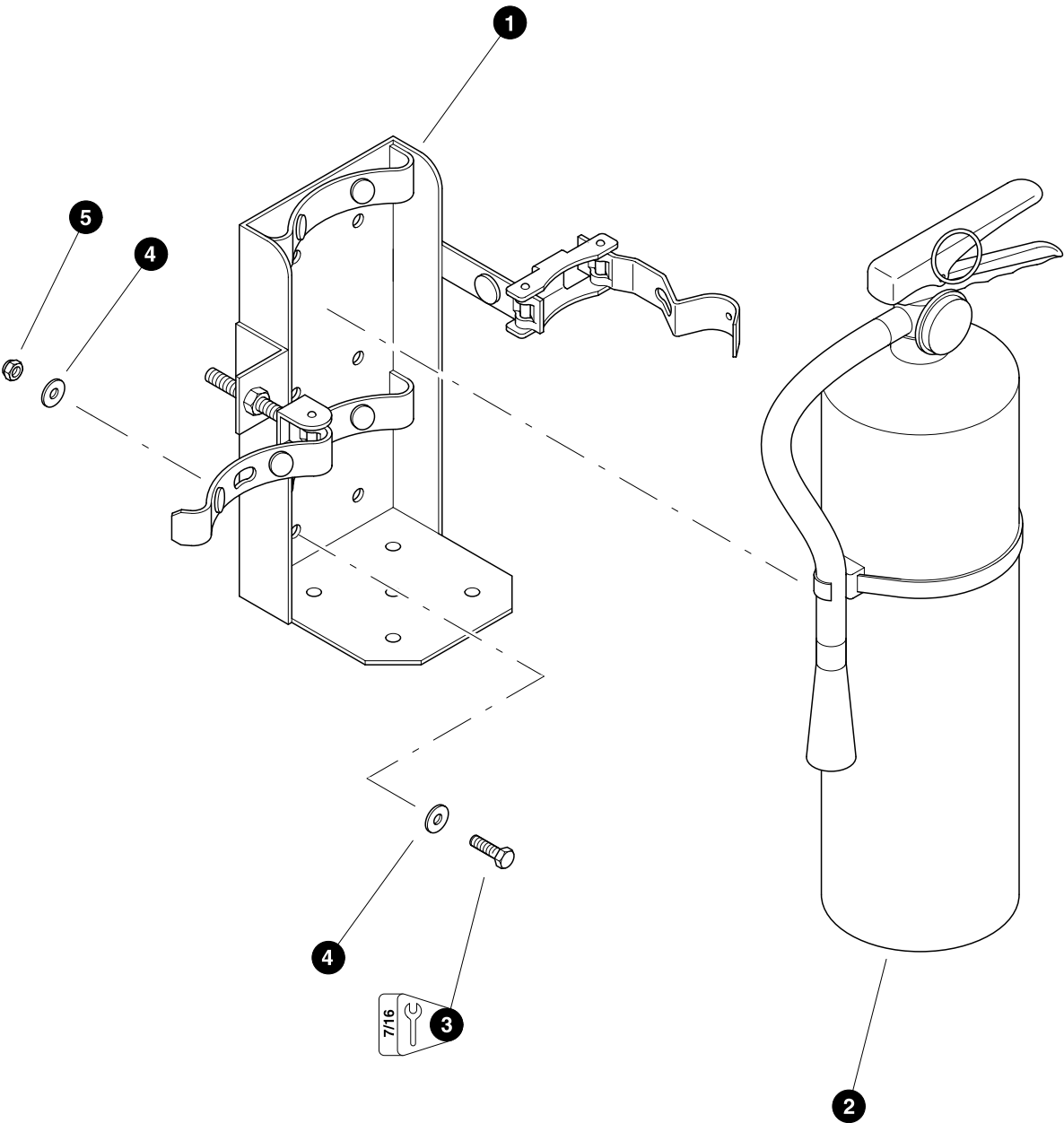


Parts 00494 04/15/98
25.00

FOOT CONTROL VALVE INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15589	12		BOLT - 5/16" x 1"	
2	15559	12		WASHER, SAE flat - 5/16"	
3	REF.	1	✓	WHEEL DRIVE FOOT CONTROL	J.2.6
4	18712	6		GUARD, light	
5	11707	2		BOLT - 3/8" x 1"	
6	15528	4		WASHER, SAE flat - 3/8"	
7	19162	1		BRACKET, foot pedal control	
8	10402	2		BOLT - 3/8" x 1-1/4"	
9	16838	1		COVER, foot control valve	
10	REF.	1		TRAVEL BRAKE FOOT CONTROL VALVE	D.3.2
11	15509	3		NUT, nylock - 1/4"	
12	10757	3		WASHER, SAE flat - 1/4"	
13	15604	3		BOLT - 1/4" x 3/4"	

✓ See referenced page for component or assembly breakdown.



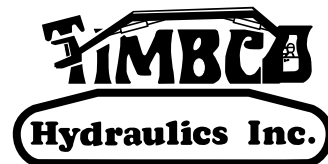
Parts 01136 10/12/2000
37.50

FIRE EXTINGUISHER INSTALLATION

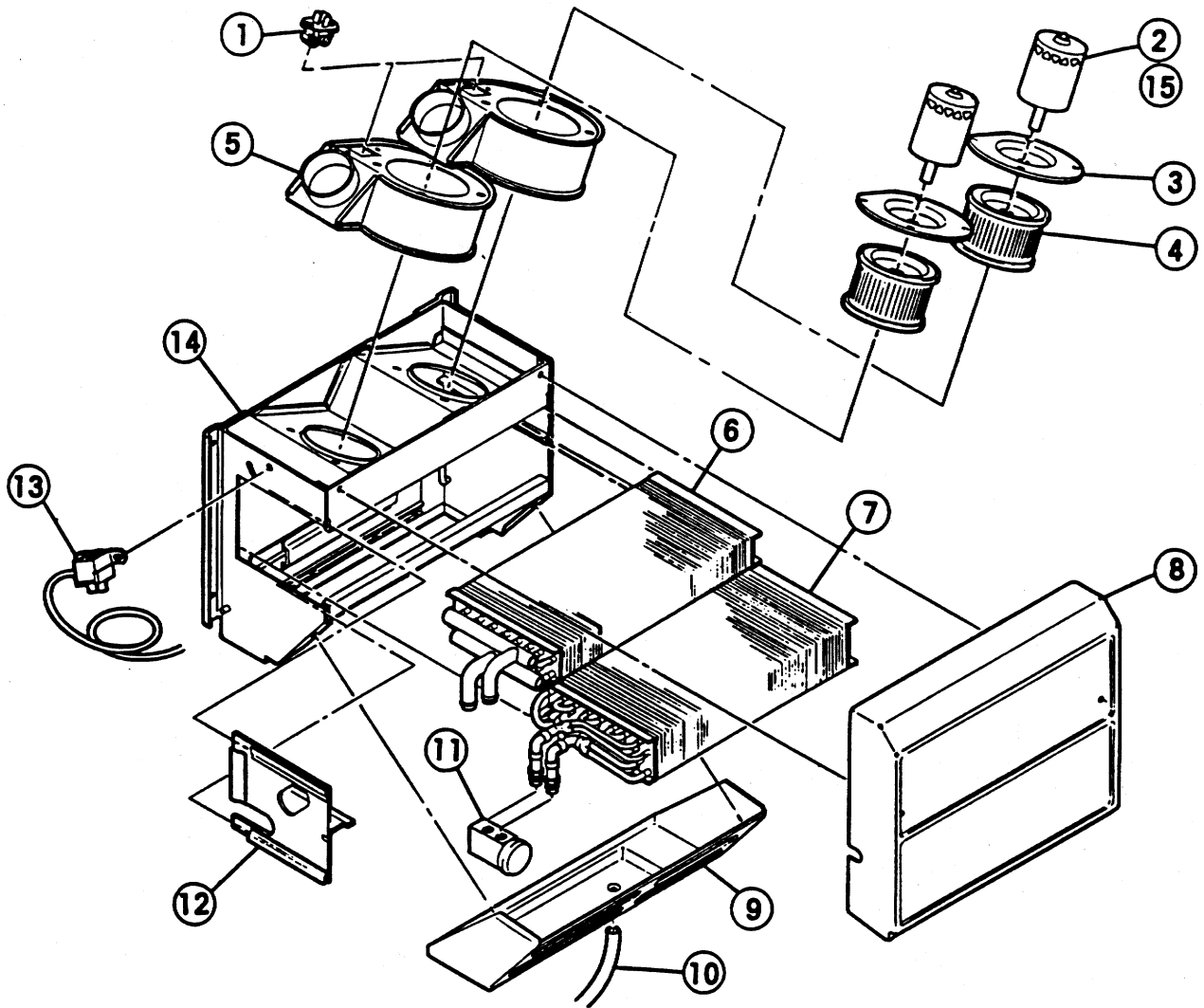
REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	16222	1	☐	FIRE EXTINGUISHER (Includes mounting bracket)	
1	NSS	1		BRACKET, fire extinguisher mounting	
2	NSS	1		EXTINGUISHER, fire	
3	15576	4		BOLT - 1/4" x 1"	
4	10800	4		WASHER, flat - 1/4"	
5	15509	4		NUT, nylock - 1/4"	

- ☐ Assembly or Kit - includes all items indented underneath.
- ✓ See referenced page for component or assembly breakdown.

Section G.4



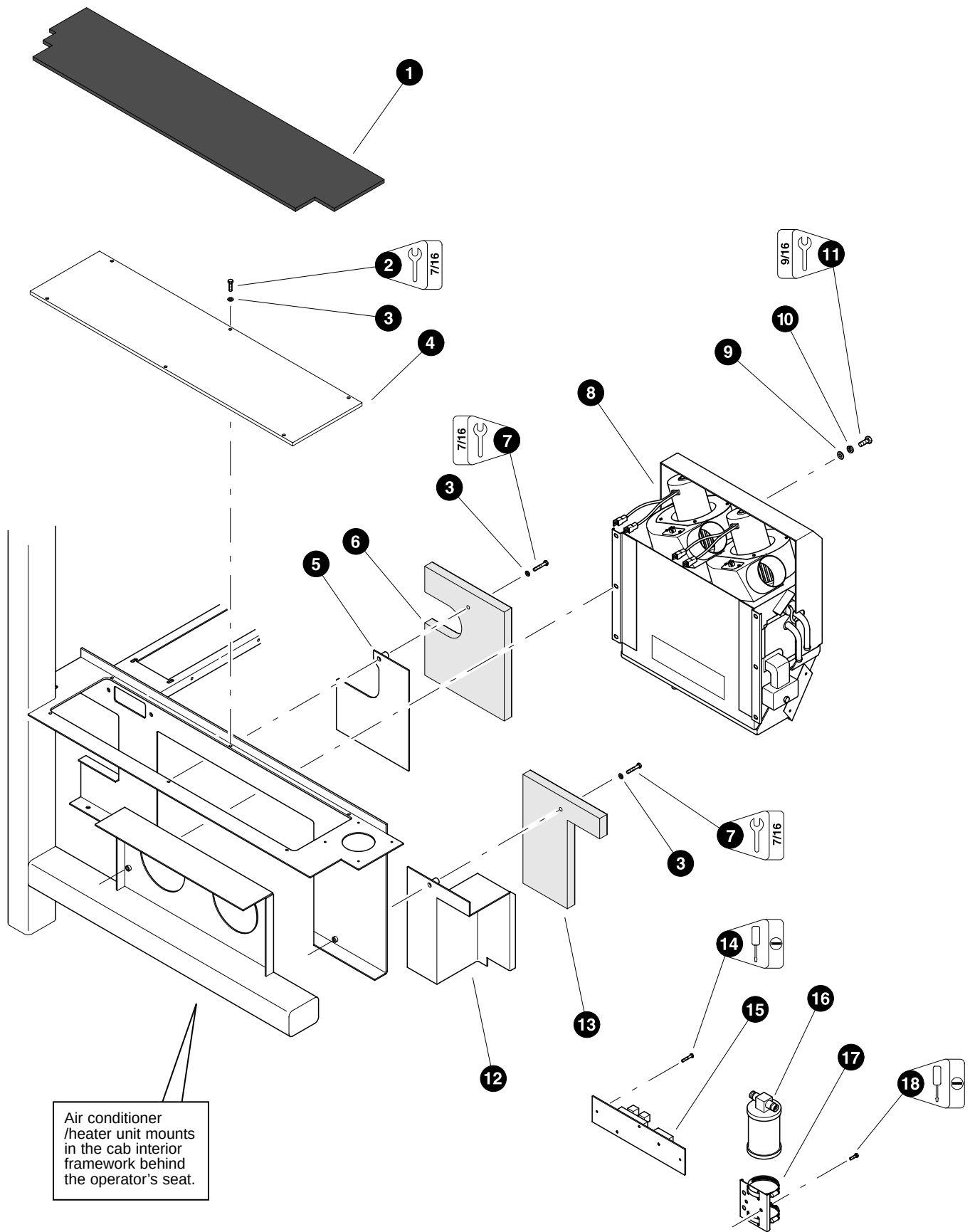
Operator's Cab - Air Conditioner / Heater Installation



AIR CONDITIONER / HEATER UNIT

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	20865	1	☐	AIR CONDITIONER / HEATER UNIT	
1	20866	2		RESISTOR	
2	20867	2		MOTOR, A/C blower	
3	NSS	2		MOUNT, motor	
4	NSS	2		WHEEL, blower	
5	NSS	2		BLOWER ASSEMBLY	
6	20868	1		CORE, heater	
7	20869	1		CORE, Evaporator	
8	NSS	1		COVER, core	
9	NSS	1		COVER, air intake	
	20870	1		FILTER, air intake	
10	NSS	1		HOSE, drain	
11	20871	1		VALVE, expansion	
12	NSS	1		COVER, core	
13	20872	1		THERMOSTAT	
14	NSS	1		HOUSING	

☐ Kit or Assembly - includes all items indented underneath.

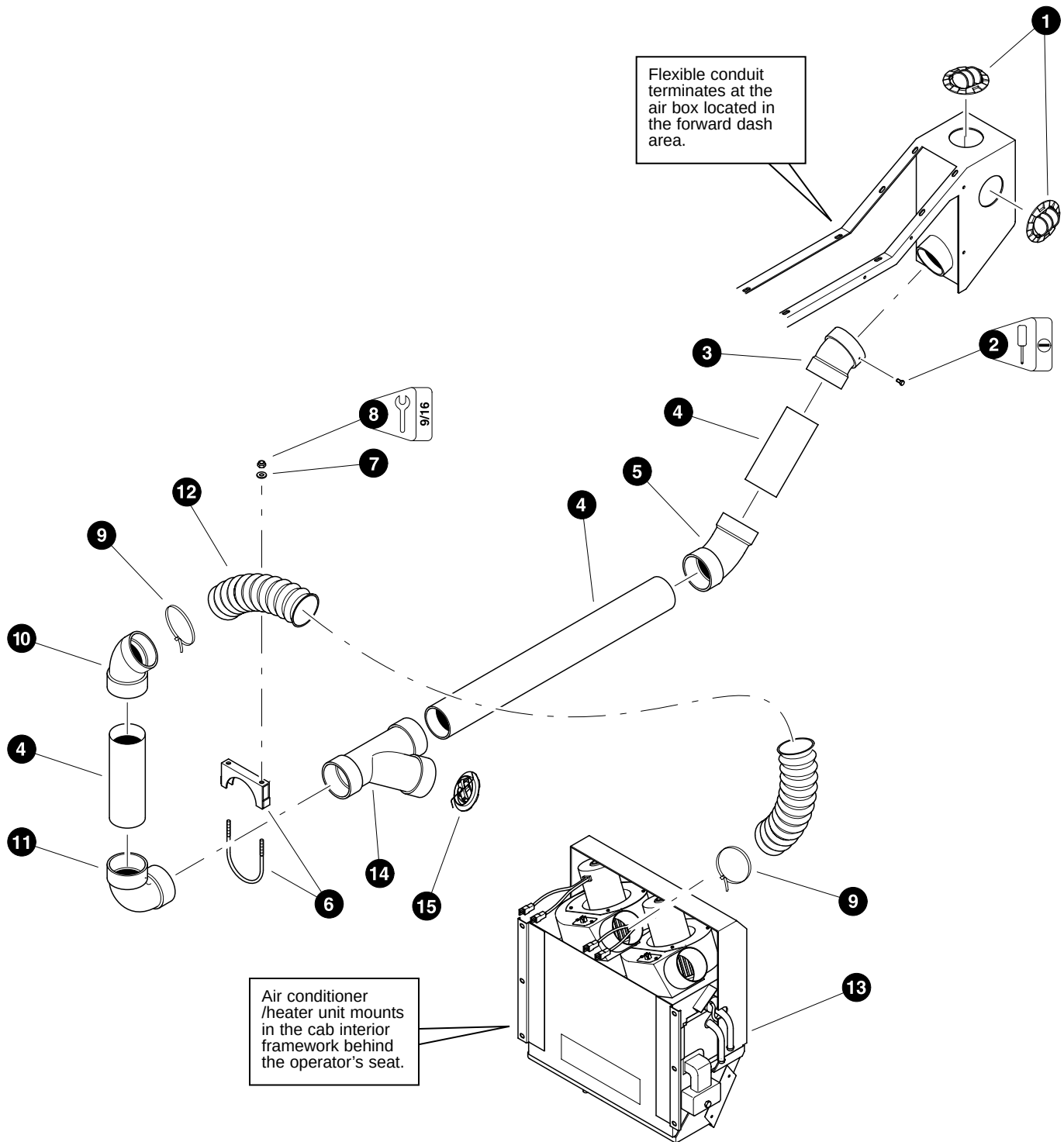


Parts 01092 03/10/99
12.50

AIR CONDITIONER / HEATER UNIT INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	20230	1	FLOORMAT, rear shelf	
2	15604	6	BOLT - 1/4" x 3/4"	
3	10757	8	WASHER, SAE flat - 1/4"	
4	22258	1	COVER, access - A/C unit tray	
5	20885	1	COVER, access - A/C unit LH	
6	20228	1	TRIM, panel - A/C - LH	
7	15575	2	BOLT - 1/4" x 1-1/2"	
8	REF.	1	✓ AIR CONDITIONER / HEATER UNIT	G.4.2
9	15528	4	WASHER, SAE flat - 3/8"	
10	10701	4	WASHER, lock - 3/8"	
11	11707	4	BOLT - 3/8" x 1"	
12	20886	1	COVER, access - A/C unit RH	
13	20226	1	TRIM, panel - A/C - RH	
14	17255	2	SCREW, self-tapping - #10-24 x 3/4"	
15	20887	1	HARNESS, A/C w/bracket	
	20888	1	BASE, A/C relay mounting	
	20889	3	RELAY, A/C - 40/30A	
	20904	1	BASE, A/C 2-temp control	
16	20873	1	DRIER, A/C	
17	15621	1	BRACKET, A/C drier (Includes clamps)	
18	17254	2	SCREW, self-tapping - #10-24 x 1/2"	

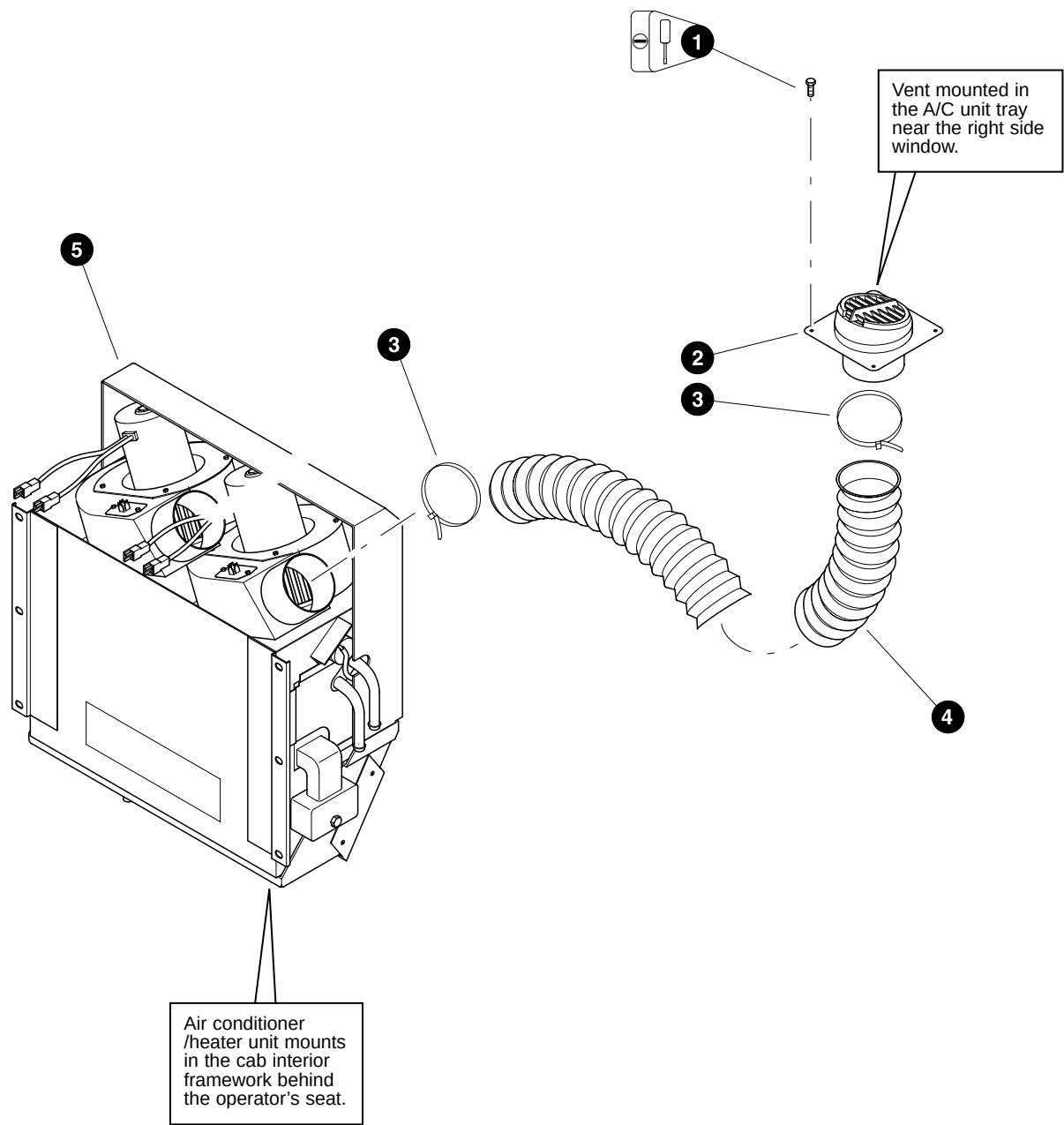
✓ See referenced page for component or assembly breakdown.



AIR CONDITIONER / HEATER DUCT INSTALLATION (Under Dash Area)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20877	2		VENT, adjustable air	
2	17254	1		SCREW, self-tapping - #10-24 x 1/2"	
3	20879	1		ELBOW, 22° ABS	
4	20883	AR	✂	PIPE, ABS - 3"	
5	20880	1		ELBOW, 45° ABS	
6	20257	1	☐	CLAMP (Includes mounting hardware)	
7	15528	2		WASHER, SAE flat - 3/8"	
8	10700	2		NUT, hex - 3-8"	
9	16290	2		STRAP, tie	
10	20881	1		ELBOW, 45° street ABS	
11	20882	1		ELBOW, 90° ABS	
12	20884	AR	✂	HOSE, flexible - 3-1/2"	
13	REF.	1	✓	AIR CONDITIONER / HEATER UNIT	G.4.2
14	21544	1	☐	TEE, ABS - 3"	
15	20877	1		VENT, adjustable air	

- ✂ Bulk material - order length required in feet or meters.
☐ Kit or Assembly - includes all items indented underneath.
✓ See referenced page for component or assembly breakdown.



AIR CONDITIONER / HEATER DUCT INSTALLATION (Right Side Window)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	17254	4		SCREW, self-tapping - #10-24 x 1/2"	
2	20878	1		VENT, adjustable air	
3	16290	2		STRAP, tie	
4	20884	AR	≥	HOSE, flexible - 3-1/2"	
5	REF.	1	✓	AIR CONDITIONER / HEATER UNIT	G.4.2

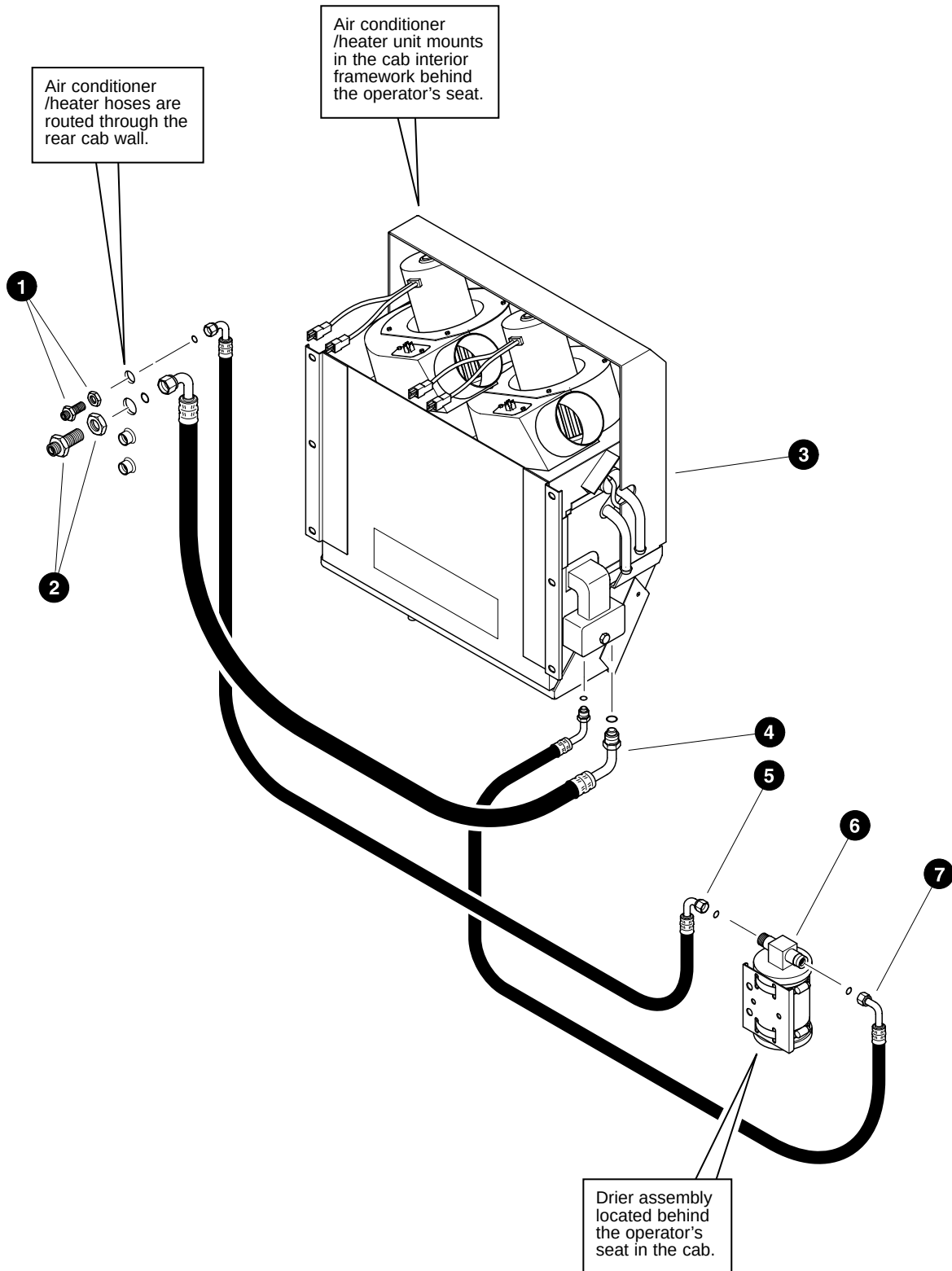
≥ Bulk material - order length required in feet or meters.

✓ See referenced page for component or assembly breakdown.

AIR CONDITIONER COMPONENT INSTALLATION

(Condenser Rubber Isolator Mounted To A/C Fan Panel)

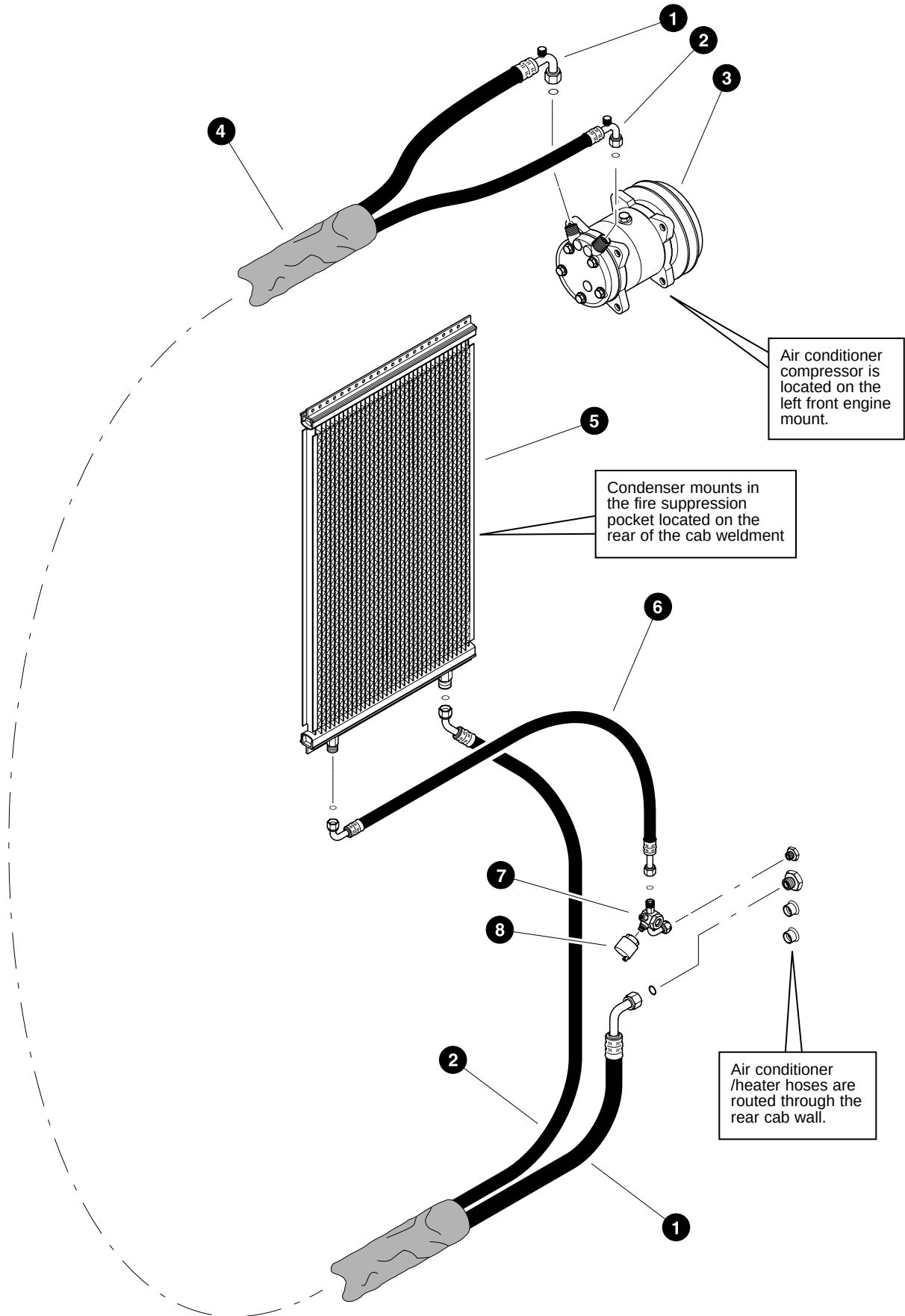
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	10811	24	NUT, lock - 1/4"	
2	20874	1	CONDENSER, air conditioner	
3	22015	4	ISOLATOR, sandwich mount - A/C condenser	
4	20875	1	PANEL, A/C fan mounting	
5	20876	2	MOTOR / FAN ASSEMBLY	
6	10757	8	WASHER, SAE flat - 1/4"	
7	15604	6	BOLT - 1/4" x 3/4"	
8	10800	6	WASHER, flat - 1/4"	



AIR CONDITIONER LINES (Cab Interior)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20891	1		CONNECTOR, straight bulkhead - #6	
2	20892	1		CONNECTOR, straight bulkhead - #10	
3	REF.	1	✓	AIR CONDITIONER / HEATER UNIT	G.4.2
4	20897	1		HOSE, air conditioner - #10 x 51-1/2" (Male 90° /Female 90°) (Bulkhead fitting to air conditioner/heater unit)	
5	20895	1		HOSE, air conditioner - #6 x 39" (Female 90°/Female 90°) (Drier assembly to bulkhead fitting)	
6	REF.	1	✓	DRIER ASSEMBLY	G.4.4
7	20894	1		HOSE, air conditioner - #6 x 21-3/4" (Male 90°/Female 90°) (Air conditioner/heater unit to drier assembly)	

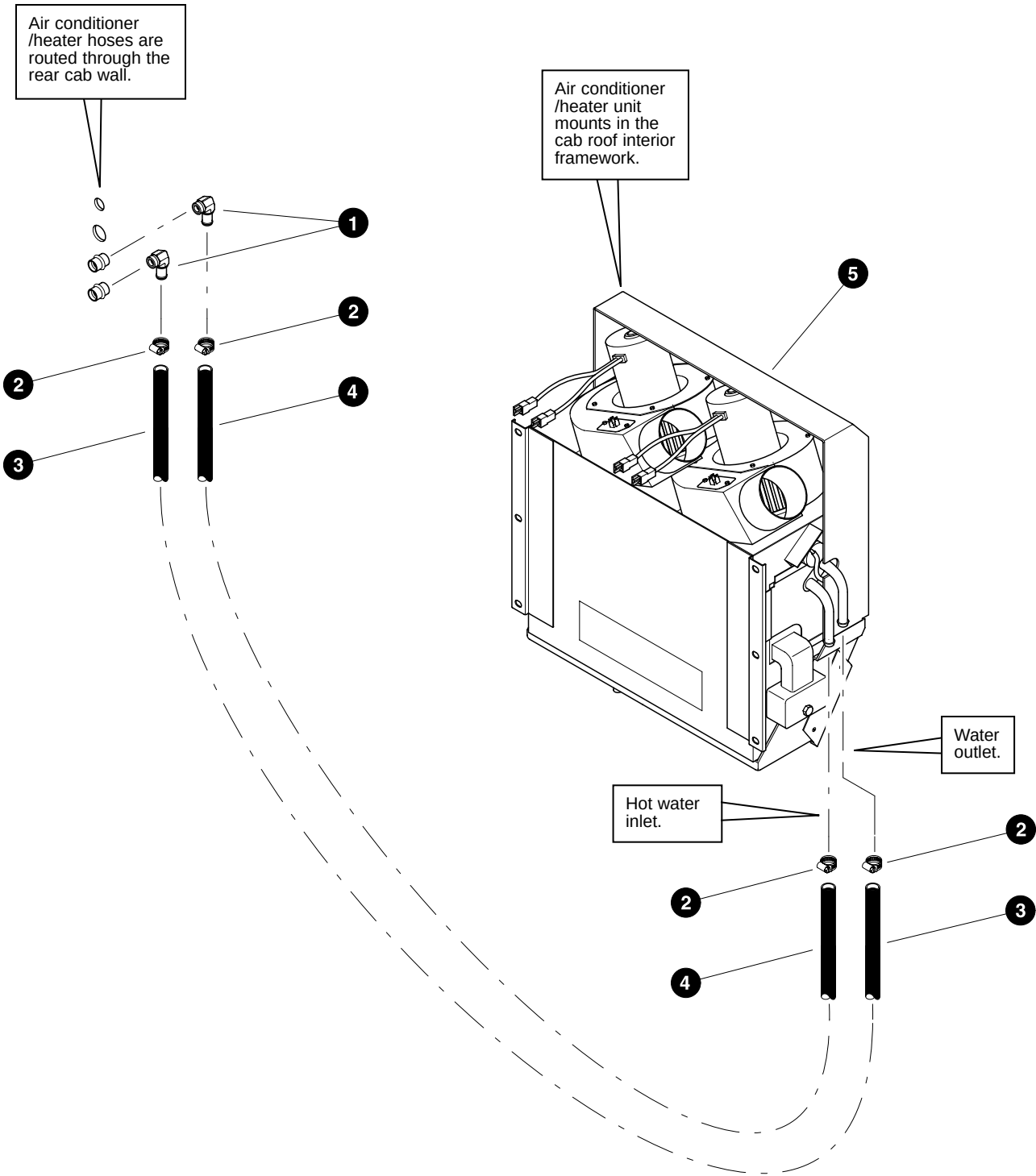
✓ See referenced page for component or assembly breakdown.



AIR CONDITIONER LINES (Cab Exterior)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20898	1		HOSE, air conditioner - #10 x 122" (Female 90°/Female 90°) (Compressor to bulkhead fitting)	
2	20896	1		HOSE, air conditioner - #8 x 127" (Female 90°/Female 45°) (Compressor to condenser)	
3	REF.	1	✓	COMPRESSOR	Varies
4	17572	1	>⌘	SLEEVE, protective hose - 2-1/4"	
5	REF.	1	✓	CONDENSER	G.4.10
6	20893	1		HOSE, air conditioner - #6 x 14-1/2" (Female 90°/Female STR) (Condenser to water sensor valve)	
7	23915	1		INDICATOR, moisture - A/C	
	20900	1		GAUGE, sight - water valve	
8	15040	1		SWITCH, binary	

- ✓ See referenced page for component or assembly breakdown.
 >⌘ Bulk material - order length required in feet or meters.

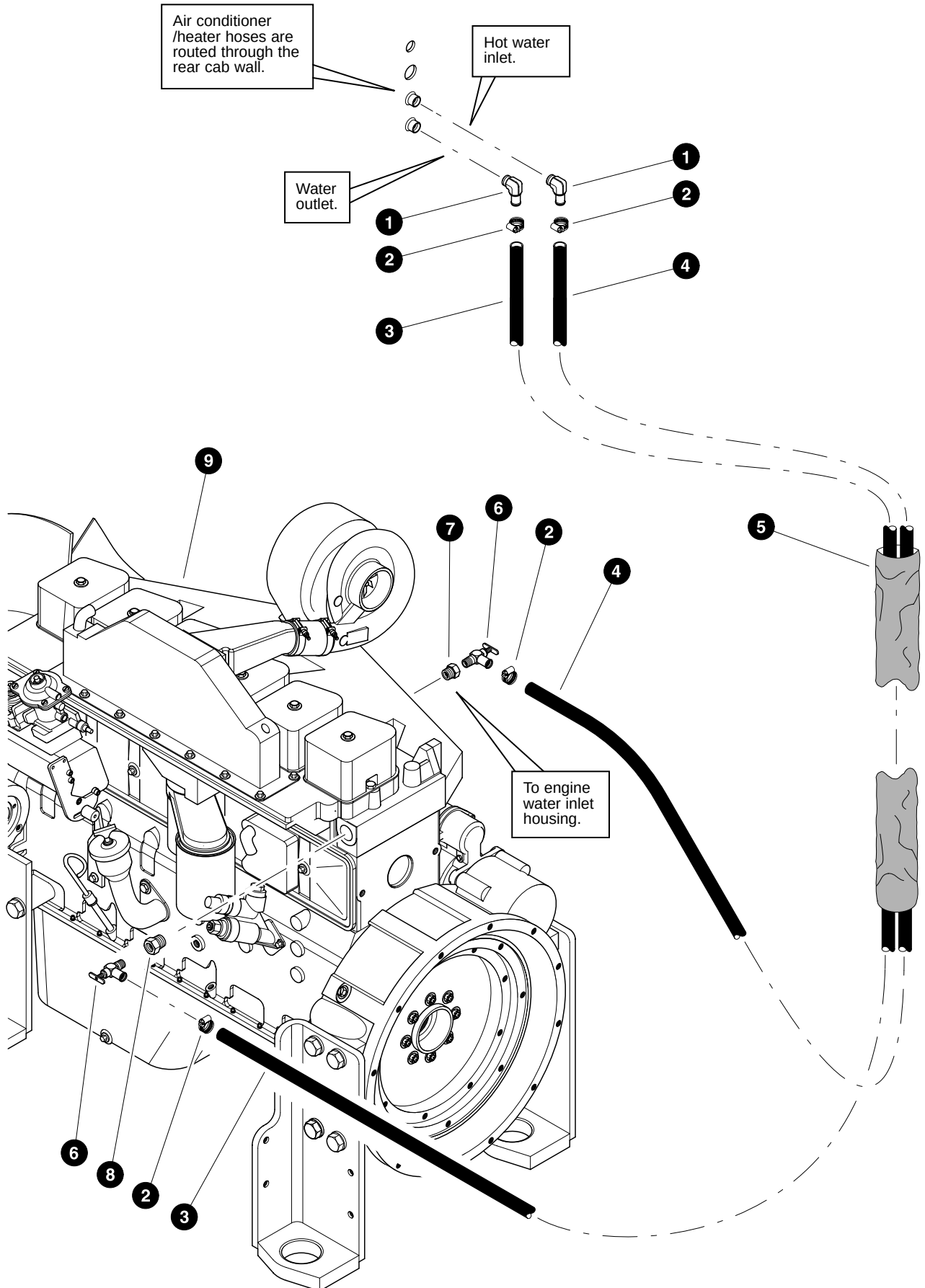


HEATER LINES (Cab Interior)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20903	2		ELBOW, 90° brass	
2	10759	4		CLAMP, hose - worm style - 7/8"	
3	16717	1	>✂	HOSE, heater - 5/8" (Air conditioner/heater unit water outlet to bulkhead elbow)	
4	16717	1	>✂	HOSE, heater - 5/8" (Air conditioner/heater unit water inlet to bulkhead elbow)	
5	REF.	1	✓	AIR CONDITIONER / HEATER UNIT	G.4.2

>✂ Bulk material - order length required in feet or meters.

✓ See referenced page for component or assembly breakdown.



Parts 00557 04/15/98
18.75

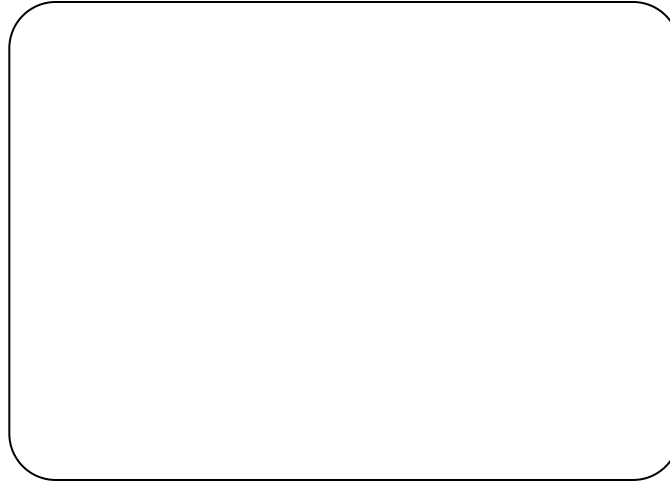
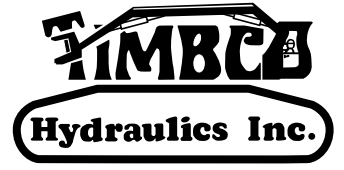
HEATER LINES (Cab Exterior)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20903	2		ELBOW, 90° brass	
2	10759	4		CLAMP, hose - worm style - 7/8"	
3	16717	1		HOSE, heater - 5/8" (Bulkhead elbow to engine)	
4	16717	1		HOSE, heater - 5/8" (Bulkhead elbow to engine water inlet housing)	
5	17572	1	⋈	SLEEVE, protective hose - 2-1/4"	
6	15630	1		BUSHING, reducer - 5406-8-6	
7	15631	2		VALVE, shut-off	
8	16831	1		BUSHING, reducer - 5406-12-6	
9	REF.	1	✓	ENGINE	F.1.2

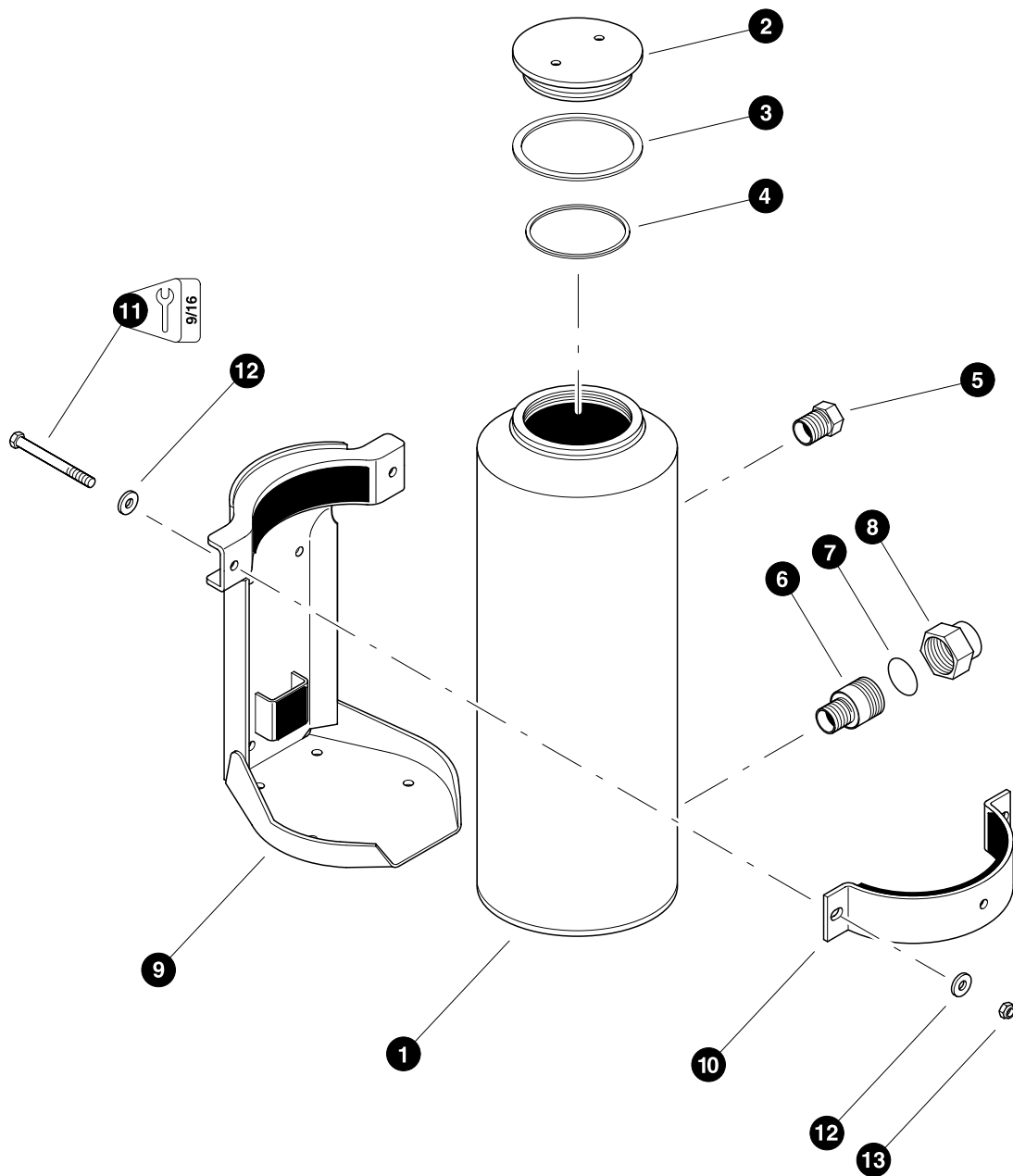
⋈ Bulk material - order length required in feet or meters.

✓ See referenced page for component or assembly breakdown.

Section G.5



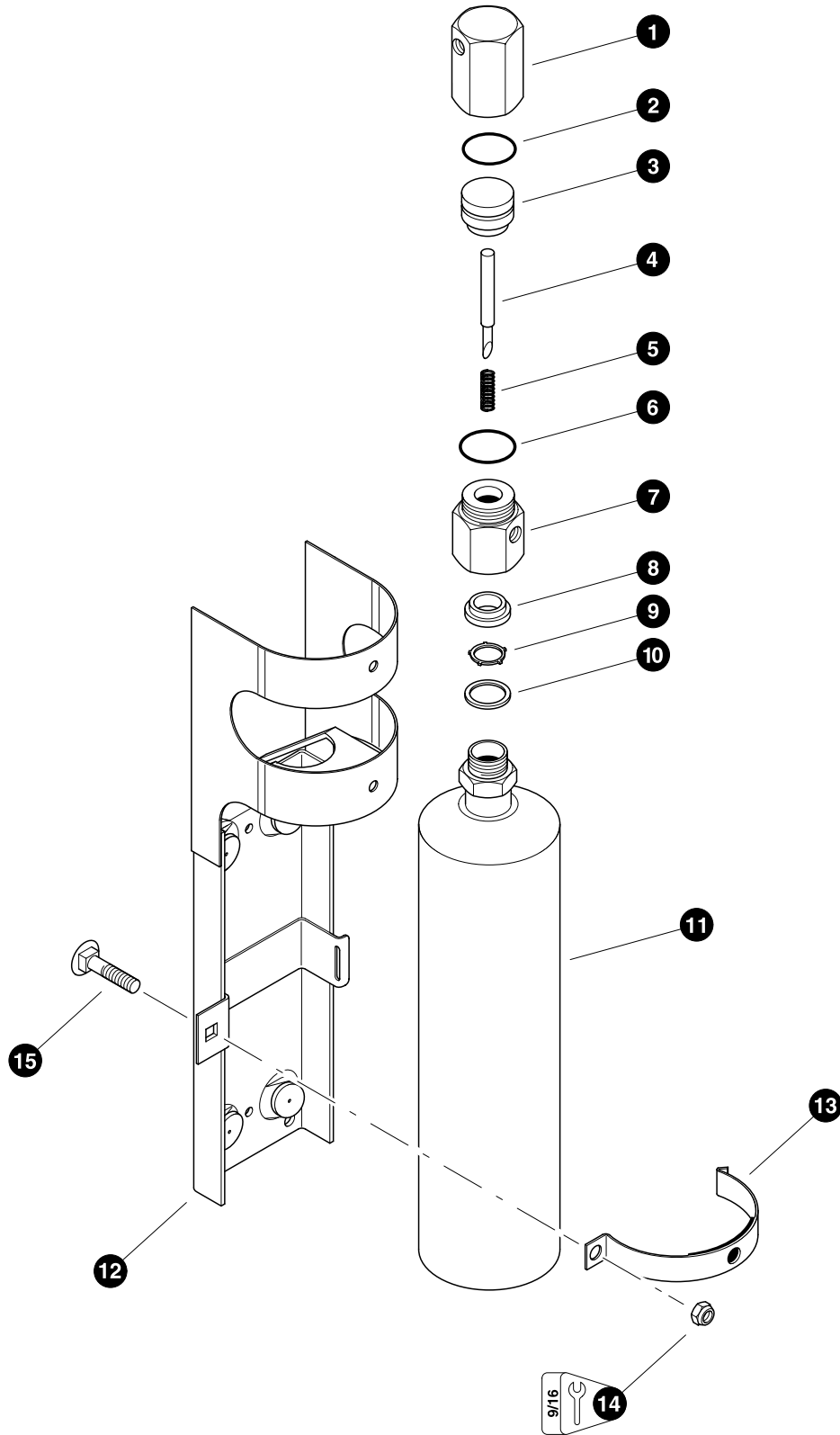
Operator's Cab - Optional Fire Suppression System



DRY CHEMICAL TANK

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	NSS	1		DRY CHEMICAL TANK	
-	21235	1	☐	FILL CAP ASSEMBLY	
2	NSS	1		CAP, fill	
3	21233	1		GASKET	
4	21234	1		RING, quad	
5	21236	1		ADAPTER	
-	21237	1	☐	BURSTING DISC UNION	
6	21238	1		ADAPTER	
7	21239	1		DISC, bursting	
8	21240	1		RING, union tail piece	
-	21241	1	☐	DRY CHEMICAL TANK BRACKET	
9	NSS	1		BRACKET, dry chemical tank	
	21244	1		PAD, clamp arm	
	21245	1		PAD, bumper	
	21246	1		PAD, base	
10	21242	1		CLAMP, band	
	21243	1		PAD, band clamp	
11	15592	2		BOLT - 3/8" x 4"	
12	15528	4		WASHER, SAE flat - 3/8"	
13	15507	2		NUT, nylock - 3/8"	

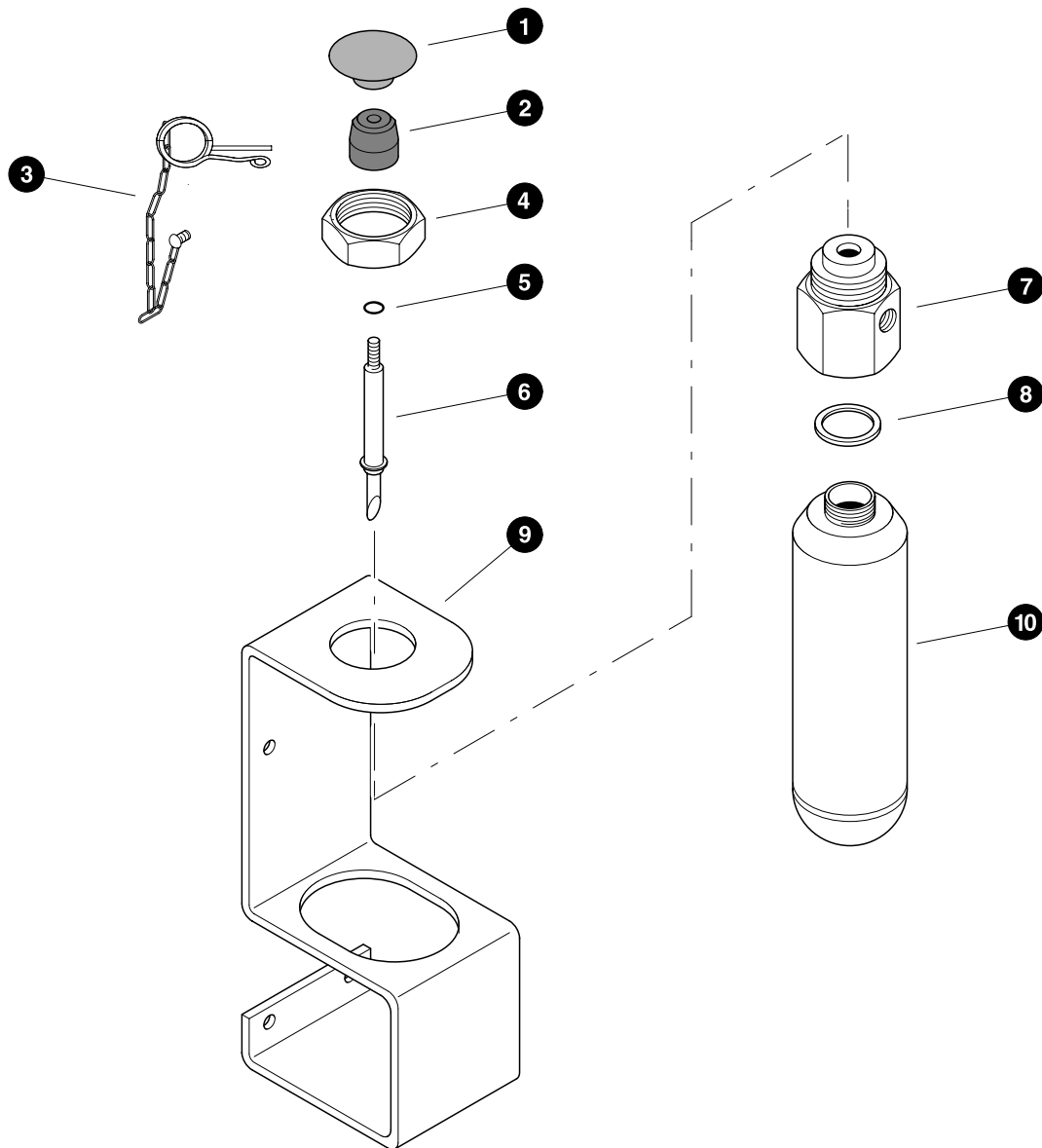
☐ Kit or Assembly - includes all items indented underneath.



NITROGEN CYLINDER

REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	21248	1	☐	PNEUMATIC ACTUATOR ASSEMBLY	
1	21249	1		BODY, actuator - upper	
2	21250	1		O-RING, slave piston	
3	21251	1		PISTON, pneumatic slave	
4	21252	1		PIN, puncture	
5	21253	1		SPRING	
6	21254	1		O-RING, actuator body	
7	21255	1		BODY, actuator - lower	
8	21256	1		WASHER	
9	21257	1		RING, retaining	
10	21258	1		GASKET	
11	21276	1		CARTRIDGE, nitrogen <i>(Includes shipping cap)</i>	
--	21260	1	☐	BRACKET ASSEMBLY, nitrogen tank	
12	NSS	1		BRACKET, nitrogen cylinder	
13	21261	1		ARM, clamp	
	21262	1		PAD, clamp arm	
14	15507	1		NUT, nylock - 3/8"	
15	21263	1		BOLT, carriage - 3/8" x 1"	

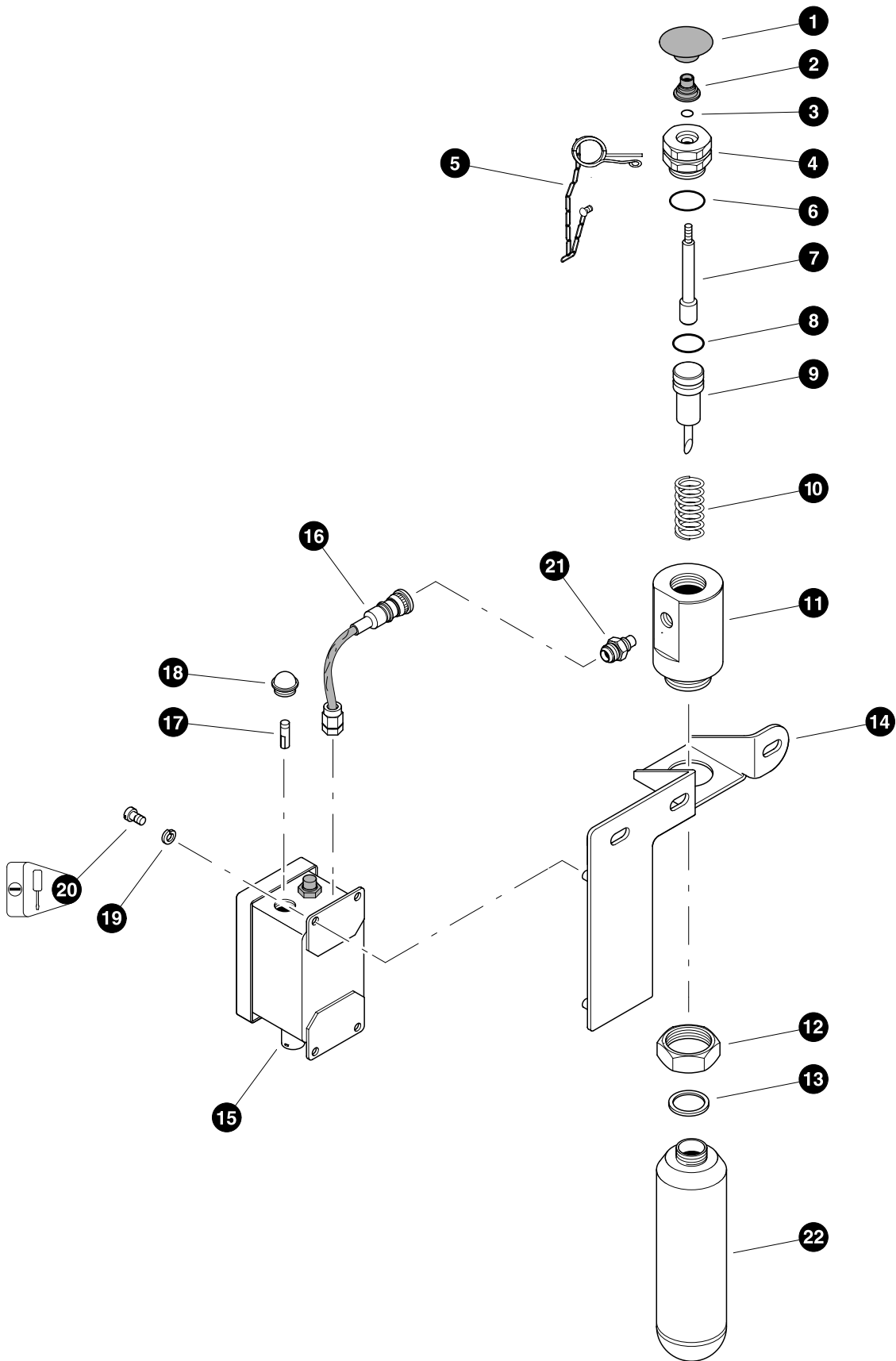
☐ Kit or Assembly - includes all items indented underneath



MANUAL ACTUATOR (Exterior Mount)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	21264	1	☐	MANUAL ACTUATOR ASSEMBLY	
1	21265	1		KNOB	
2	21266	1		BOOT	
3	21272	1		PIN, safety ring	
	21273	1		CHAIN	
	21274	1		SCREW, drive	
	21275	1		WIRE, lead seal <i>(Not shown)</i>	
4	21267	1		NUT, jam	
5	21270	1		O-RING, puncture pin	
6	21271	1		PIN, puncture	
7	21269	1		BODY, actuator	
8	21258	1		GASKET	
9	21268	1		BRACKET, manual actuator	
10	21259	1		CARTRIDGE, manual actuator <i>(Includes shipping cap)</i>	

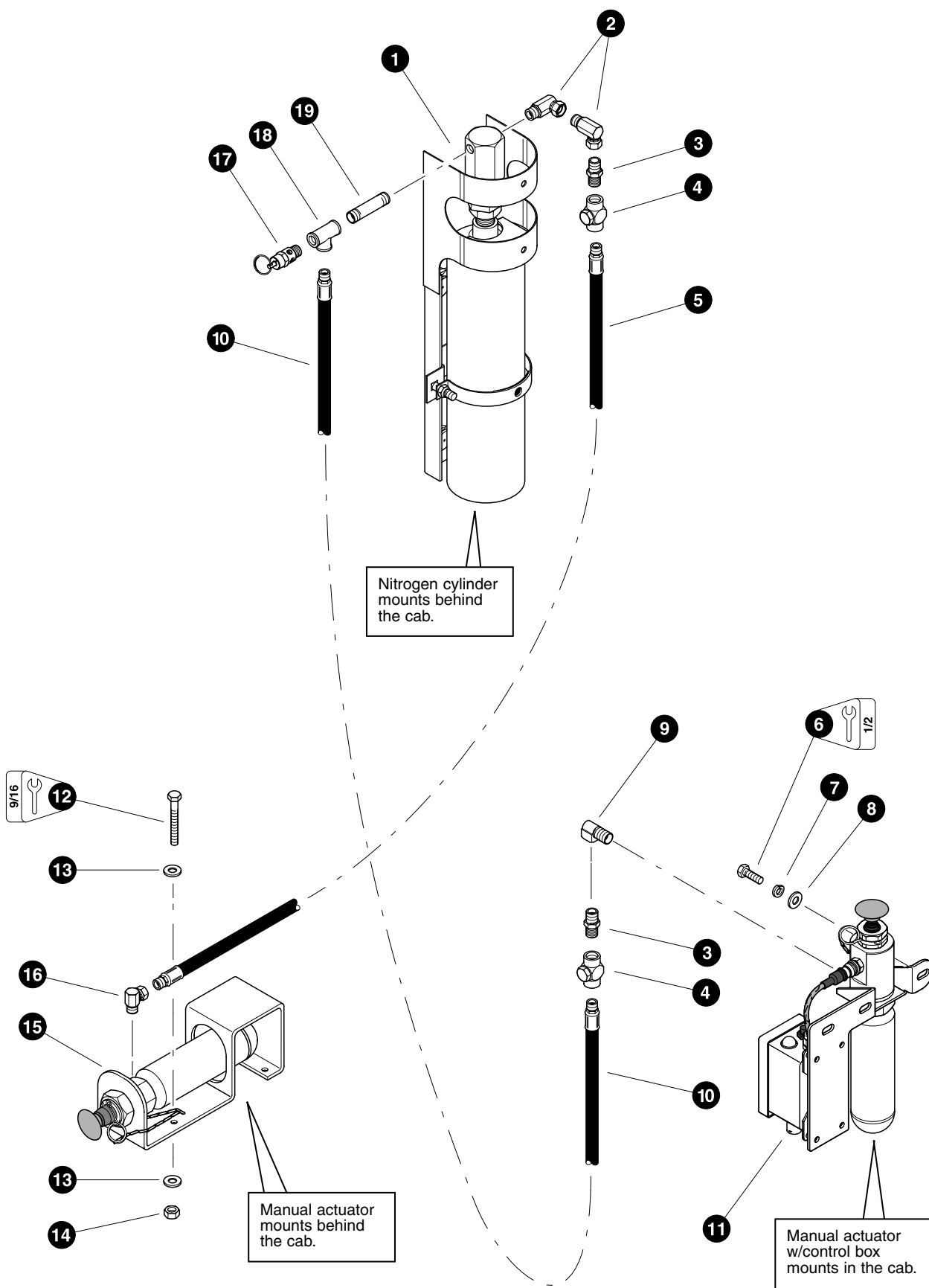
☐ Kit or Assembly - includes all items indented underneath.



MANUAL ACTUATOR (Interior Mount)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	21295	1	☐	MANUAL ACTUATOR / CONTROL BOX ASSEMBLY	
--	21294	1	☐	MANUAL ACTUATOR ASSEMBLY	
1	21265	1		KNOB	
2	21277	1		BOOT	
3	21279	1		O-RING, stem	
4	21278	1		ADAPTER, boot	
5	21272	1		PIN, safety ring	
	21273	1		CHAIN	
	21274	1		SCREW, drive	
	21275	1		WIRE, lead seal <i>(Not shown)</i>	
6	21280	1		O-RING, adaptor boot	
7	21281	1		STEM	
8	21282	1		O-RING, puncture pin	
9	21283	1		PIN, puncture	
10	21284	1		SPRING	
11	21285	1		BODY, adapter	
12	21286	1		NUT, jam	
13	21258	1		GASKET	
14	21287	1		BRACKET, manual actuator	
15	21289	1	☐	CONTROL BOX ASSEMBLY	
	21290	1		PLATE, name	
16	NSS	1		CABLE, signal	
17	21291	1		BULB - 12V	
	21292	1		BULB - 24V	
18	21293	1		LENS, indicator	
19	16132	4		WASHER, lock - 1/4"	
20	15669	4		SCREW, machine - #10-24 x 1/2"	
21	16515	1		SQUIB	
22	21288	1		CARTRIDGE, manual actuator <i>(Includes shipping cap)</i>	
Items Not Shown:					
--	21297	1	☐	HARNESS, battery <i>(Connects power wire from control box to the battery. Contains fuse holder)</i>	
--	21298	1		FUSE - 5 AMP	
--	21296	1		WIRE, power - 10' <i>(provides power to the control box)</i>	
--	16514	1		WIRE, detection <i>(Routed from the control box throughout the engine and pump compartments)</i>	

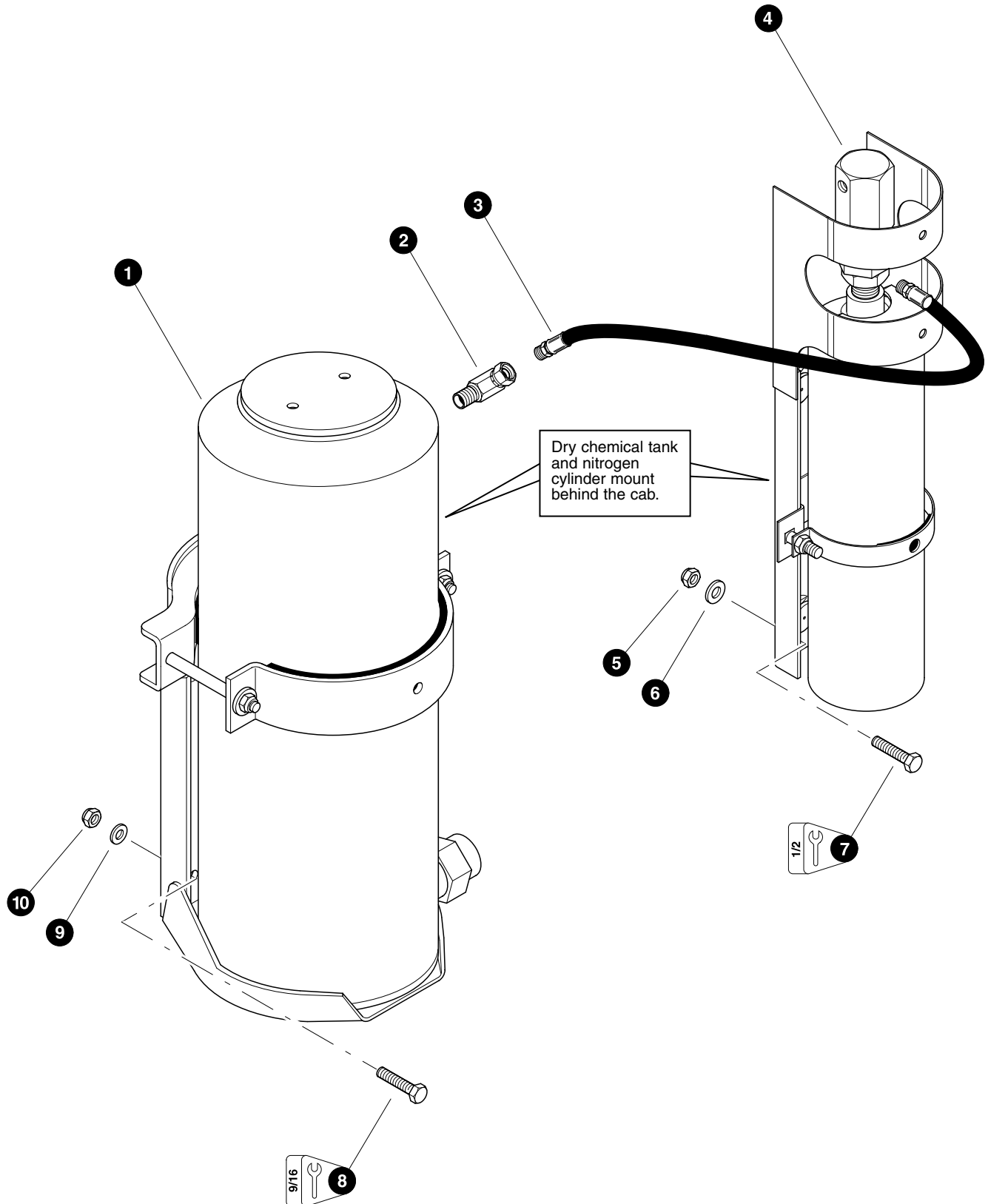
☐ Kit or Assembly - includes all items indented underneath.



MANUAL ACTUATOR INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	NITROGEN CYLINDER	G.6.4
2	10320	2		ELBOW, 90° - 1501-4-4	
3	15567	2		CONNECTOR, straight - 5404-4	
4	16778	2		VALVE, check	
5	22269	1		HOSE ASSEMBLY - 2062-04-04PS-04PS (<i>Exterior manual actuator to nitrogen cylinder</i>)	
6	15589	2		BOLT - 5/16" x 1"	
7	15606	2		LOCK, washer - 5/16"	
8	10801	2		WASHER, flat - 5/16"	
9	21147	1		ELBOW, 90° - 1/4" NPT (<i>Brass</i>)	
10	16750	1		HOSE ASSEMBLY - 2102-04-04PS-04PS (<i>Interior manual actuator to nitrogen cylinder</i>)	
11	REF.	1	✓	MANUAL ACTUATOR ASSEMBLY - interior	G.6.8
12	11707	2		BOLT - 3/8" x 1"	
13	15528	4		WASHER, SAE flat - 3/8"	
14	10813	2		NUT, lock - 3/8"	
15	REF.	1	✓	MANUAL ACTUATOR ASSEMBLY - exterior	G.6.6
16	10320	1		ELBOW, 90° - 1501-4-4	
17	21299	1		VALVE, safety relief	
18	16310	1		TEE, black pipe - 1/4"	
19	16886	1		NIPPLE, close - 1/4" x 2-1/2"	

✓ See reference page for component or assembly breakdown.

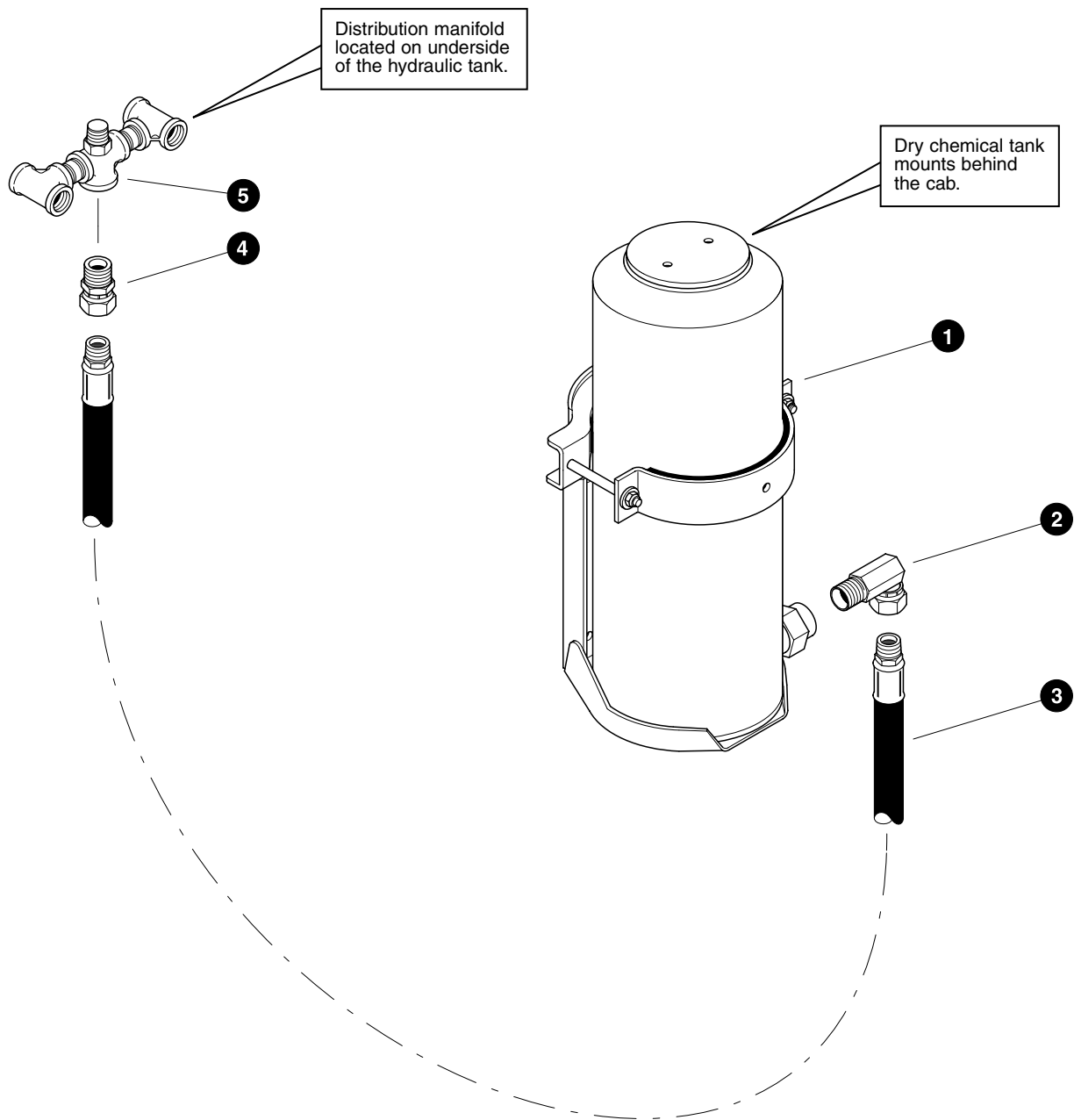


DRY CHEMICAL TANK & NITROGEN CYLINDER INSTALLATION

(Installed Behind Cab)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	DRY CHEMICAL TANK ASSEMBLY	G.6.2
2	10320	1		ELBOW, 90° swivel - 1501-4-4	
3	16748	1		HOSE ASSEMBLY - 2013-04-04OS-04O4 (<i>Nitrogen cylinder to dry chemical tank</i>)	
4	REF.	1	✓	NITROGEN CYLINDER ASSEMBLY	G.6.4
5	10812	4		NUT, lock - 5/16"	
6	15559	4		WASHER, SAE flat - 5/16"	
7	15589	4		BOLT - 5/16" x 1"	
8	11707	4		BOLT - 3/8" x 1"	
9	15528	4		WASHER, SAE flat - 3/8"	
10	10813	4		NUT, lock - 3/8"	

✓ See reference page for component or assembly breakdown.

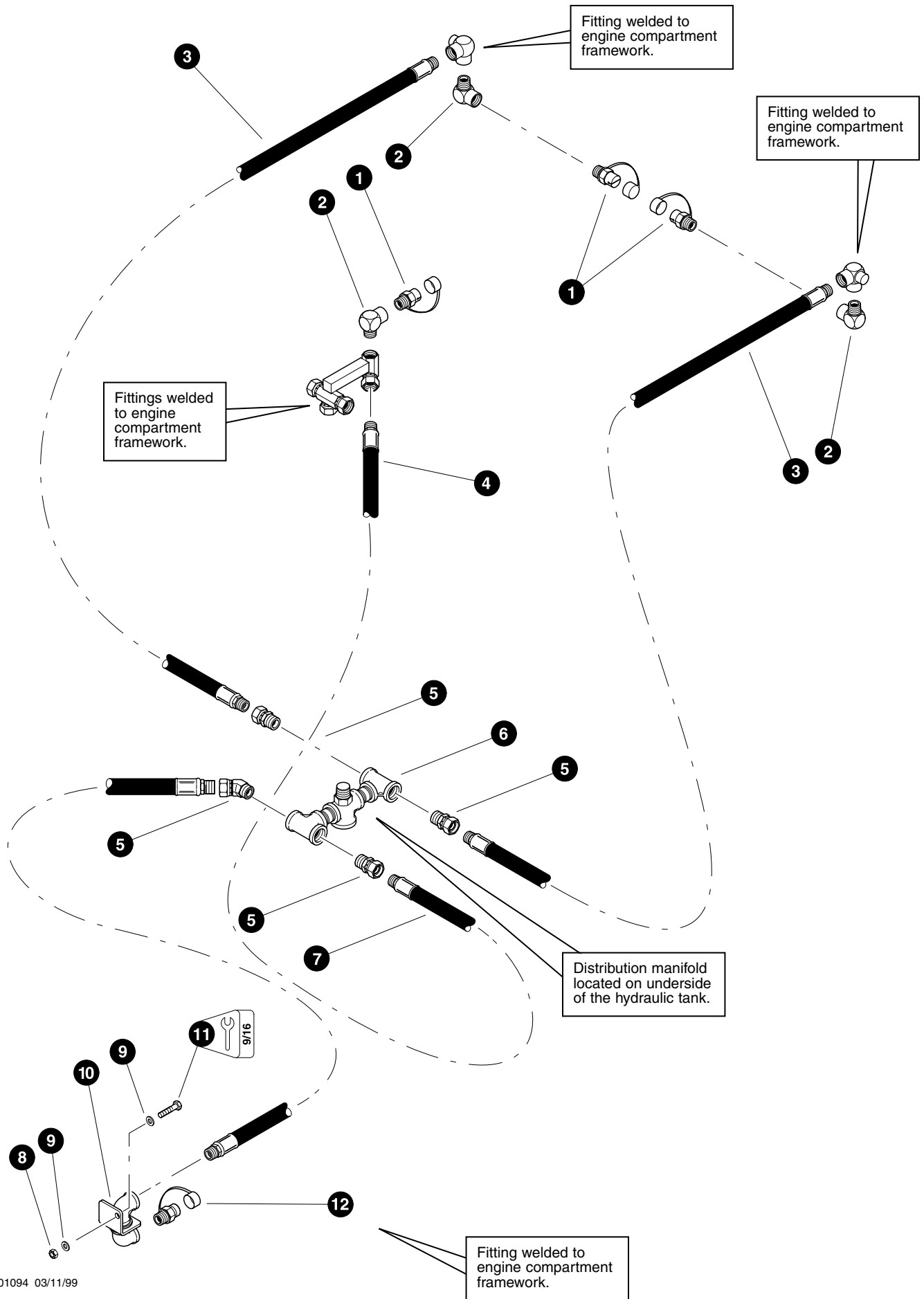


FIRE SUPPRESSION LINES

(Dry Chemical Tank To Distribution Tee)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	DRY CHEMICAL TANK ASSEMBLY	G.6.2
2	10359	1		ELBOW, 90° swivel - 1501-12-12	
3	22044	1		HOSE ASSEMBLY - 2057-12-12PS-12PS (<i>Dry chemical tank to distribution tee</i>)	
4	11304			CONNECTOR, straight swivel - 1404-12-12	
5	18768	1		MANIFOLD, fire distribution assembly	

✓ See reference page for component or assembly breakdown.



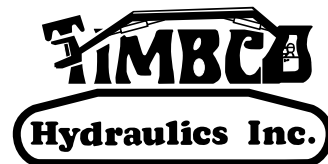
FIRE SUPPRESSION LINES

(Distribution Tee To Engine & Pump Compartments)

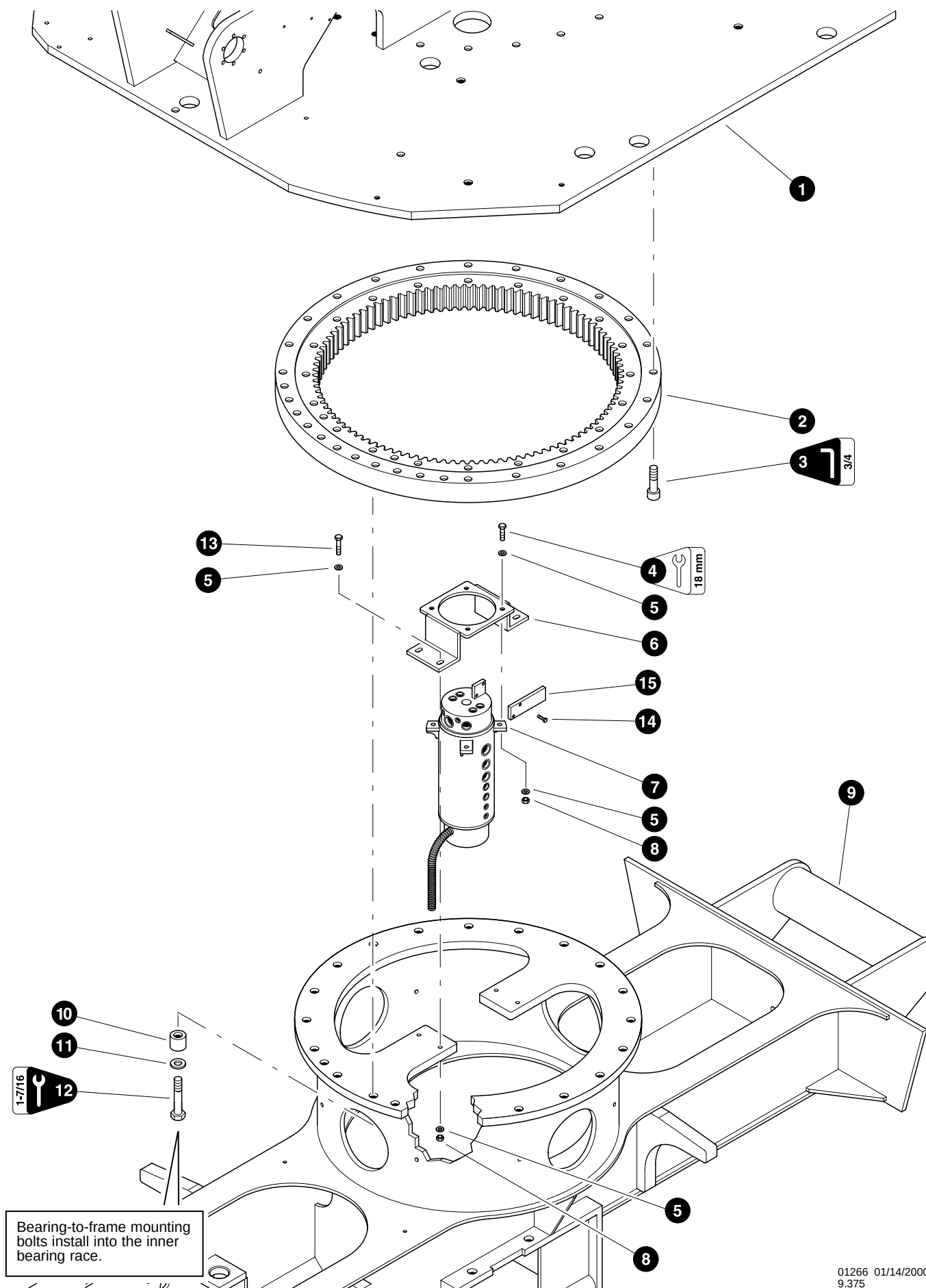
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	16775	3		NOZZLE, flat - 1/2"	
2	17460	3		ELBOW, 90° street - 5502-8-8	
3	20385	2		HOSE ASSEMBLY - 2057-08-08PS-08PS (<i>Fire distribution manifold to side engine compartment nozzle</i>)	
4	19265	1		HOSE ASSEMBLY - 4052-08-08PS-08PS (<i>Fire distribution manifold to rear engine compartment nozzle</i>)	
5	10322	4		CONNECTOR, straight swivel - 1404-8-8	
6	REF.	1	✓	FIRE DISTRIBUTION MANIFOLD	G.6.14
7	19137	1		HOSE ASSEMBLY - 2024-08-08PS-08PS (<i>Fire distribution manifold to pump area nozzle</i>)	
8	10813	1		NUT, lock - 3/8"	
9	15528	2		WASHER, SAE flat - 3/8"	
10	18769	1		MANIFOLD, fire "S"	
11	10731	1		BOLT - 3/8" x 1-1/2"	
12	17837	1		NOZZLE, cone - 1/2"	
13	11375	1		ELBOW, 45° swivel - 1503-12-12	

✓ See reference page for component or assembly breakdown.

Section H.1



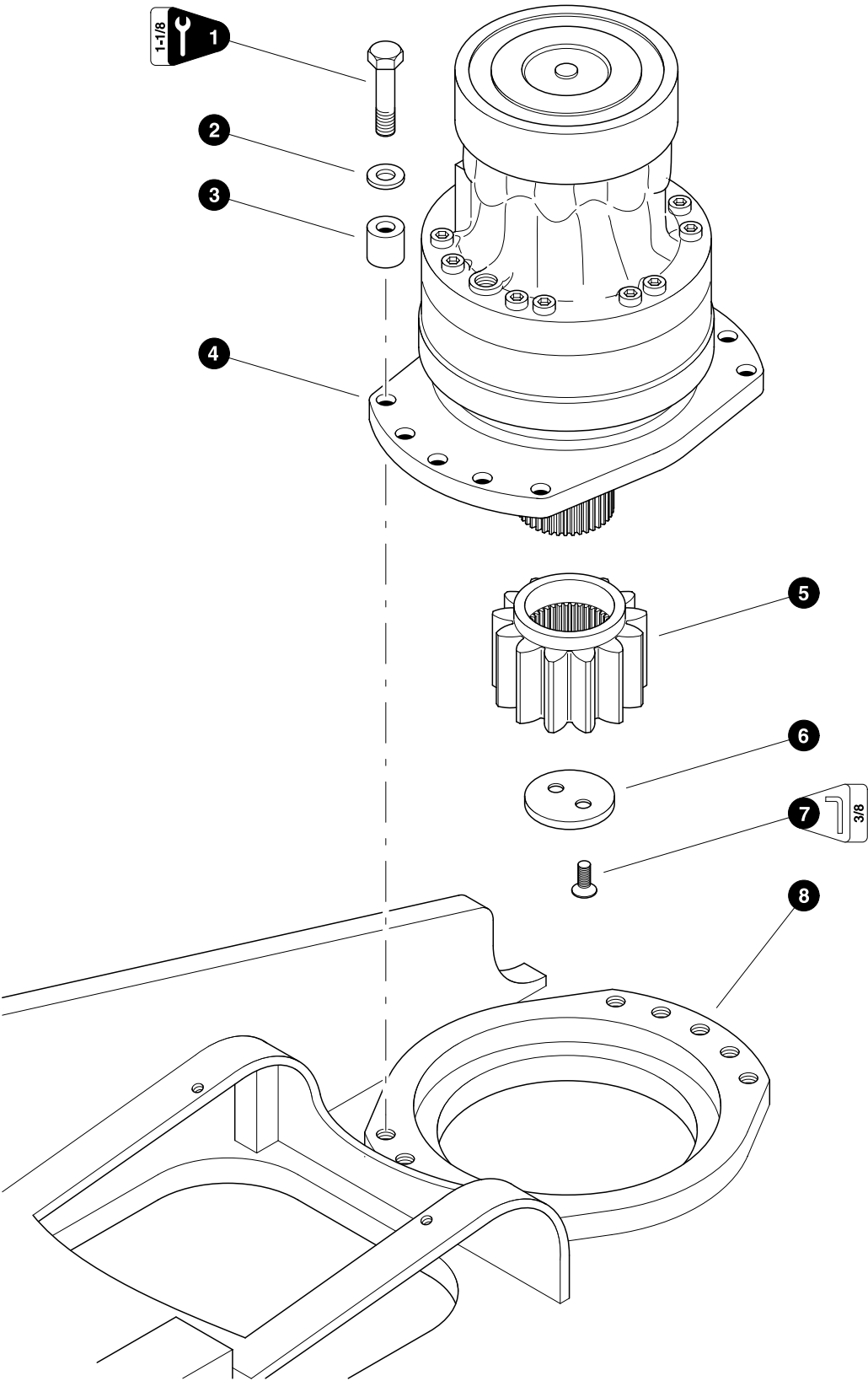
Structural Components - Upper Turntable



UPPER TURNTABLE INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	14180	1	WELDMENT, upper turntable	
2	19631	1	BEARING, swing	
3	19813	29	BOLT, allen head - 1" x 4-1/4" (<i>Torque to 900 ft.lbs (1200 Nm)</i>)	
	19814	1	BOLT, allen head - 1" x 4" (<i>Torque to 900 ft.lbs (1200 Nm)</i>)	
4	10736	4	BOLT - 1/2" x 2"	
5	15534	16	WASHER, SAE flat - 1/2"	
6	19443	1	BRACKET, rotary manifold mounting	
7	REF.	1	✓ ROTARY MANIFOLD	D.2.2
8	10815	8	NUT, lock - 1/2"	
9	REF.	1	✓ FRONT FRAME WELDMENT	H.4.2
10	12463	24	SPACER, bolt - upper turntable mounting	
11	18532	24	WASHER, SAE flat - 1" extra thick	
12	18535	24	BOLT - 1" x 5" (<i>Torque to 1000 ft.lbs (1350 Nm)</i>)	
13	15565	4	BOLT - 1/2" x 2-1/2"	
14	22463	2	BOLT - 1/2" x 1-1/4" (<i>3/32" hole in head of bolt</i>)	
15	80468	1	BRACKET, swivel lock - inner	

✓ See reference page for component or assembly breakdown.

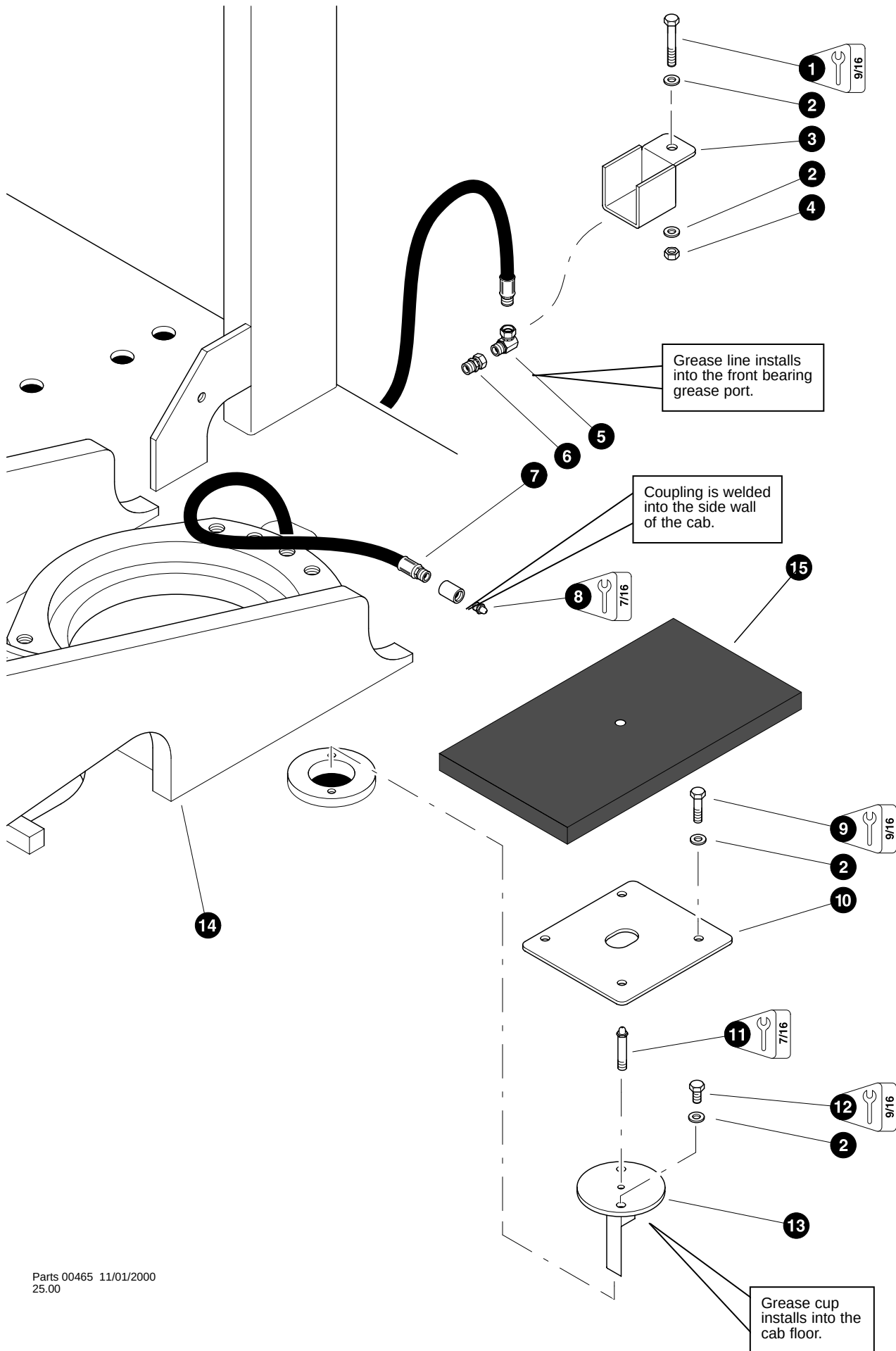


Parts 00464 02/20/98
25.00

SWING MOTOR INSTALLATION (Poclain)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	10841	10		BOLT - 3/4" x 3-1/2"	
2	15550	10		WASHER, SAE flat - 3/4"	
3	18305	10		SPACER, bolt	
4	REF.	1	✓	SWING MOTOR - Poclain	C.2.4
5	17499	1		PINION, swing motor	
6	17637	1		WASHER, pinion	
7	17634	2		BOLT, flat head socket - 14mm-2.0P x 30mm	
8	REF.	1	✓	UPPER TURNTABLE WELDMENT	H.1.2

✓ See reference page for component or assembly breakdown.

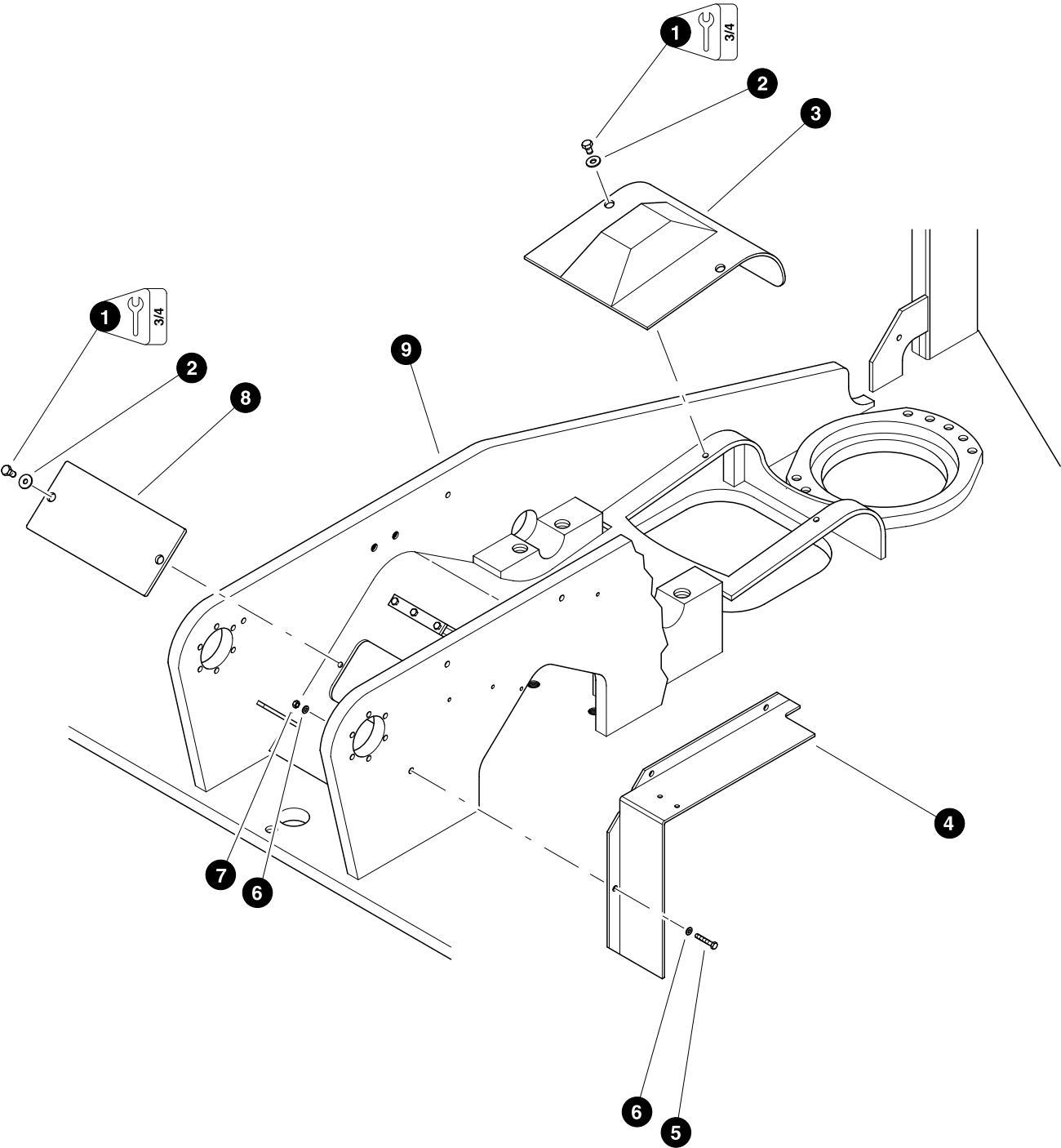


Parts 00465 11/01/2000
25.00

SWING BEARING GREASE LINES

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	15529	1	BOLT - 3/8" x 2"	
2	15528	8	WASHER, SAE flat - 3/8"	
3	19758	1	GUARD, swing bearing grease port	
4	10813	1	NUT, lock - 3/8"	
5	15657	1	ELBOW, 90° swivel - 1501-2-2	
6	15391	1	CONNECTOR, straight swivel - 1404-2-2	
7	19036	1	HOSE ASSEMBLY - 2026-04-02PS-02PS (Swing bearing grease port to cab sidewall coupling)	
8	10704	1	FITTING, straight grease - 1/8" pipe thread	
9	10731	4	BOLT - 3/8" x 1-1/2"	
10	18248	1	COVER, grease cup	
11	15685	1	FITTING, straight long grease - 1/8" pipe thread	
12	15542	2	BOLT - 3/8" x 3/4"	
13	17612	1	CUP, grease	
14	REF.	1	✓ UPPER TURNTABLE WELDMENT	H.1.2
15	19887	1	FLOORMAT, cab	

✓ See reference page for component or assembly breakdown.

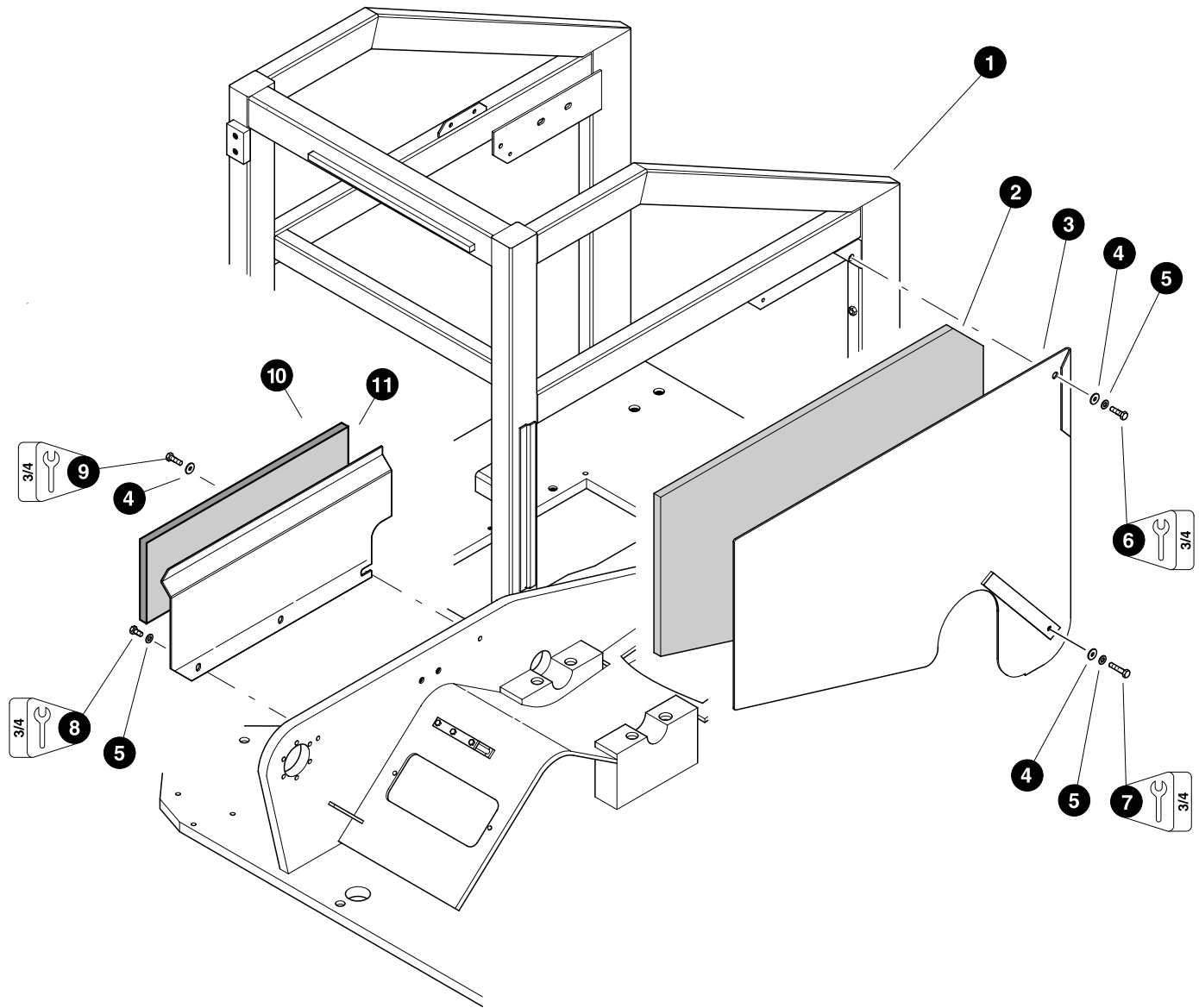


UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION

(Boom Mounting Area Access Covers)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	10783	4		BOLT - 1/2" x 1"	
2	15534	4		WASHER, SAE flat - 1/2"	
3	14093	1		COVER, swivel access	
4	18490	1		GUARD, pilot pressure valve manifold	
5	15529	3		BOLT - 3/8" x 2"	
6	15528	6		WASHER, SAE flat - 3/8"	
7	10813	3		NUT, lock - 3/8"	
8	18467	1		COVER, foot shuttle valve access	
9	REF.	1	✓	UPPER TURNTABLE WELDMENT	H.1.2

✓ See reference page for component or assembly breakdown.

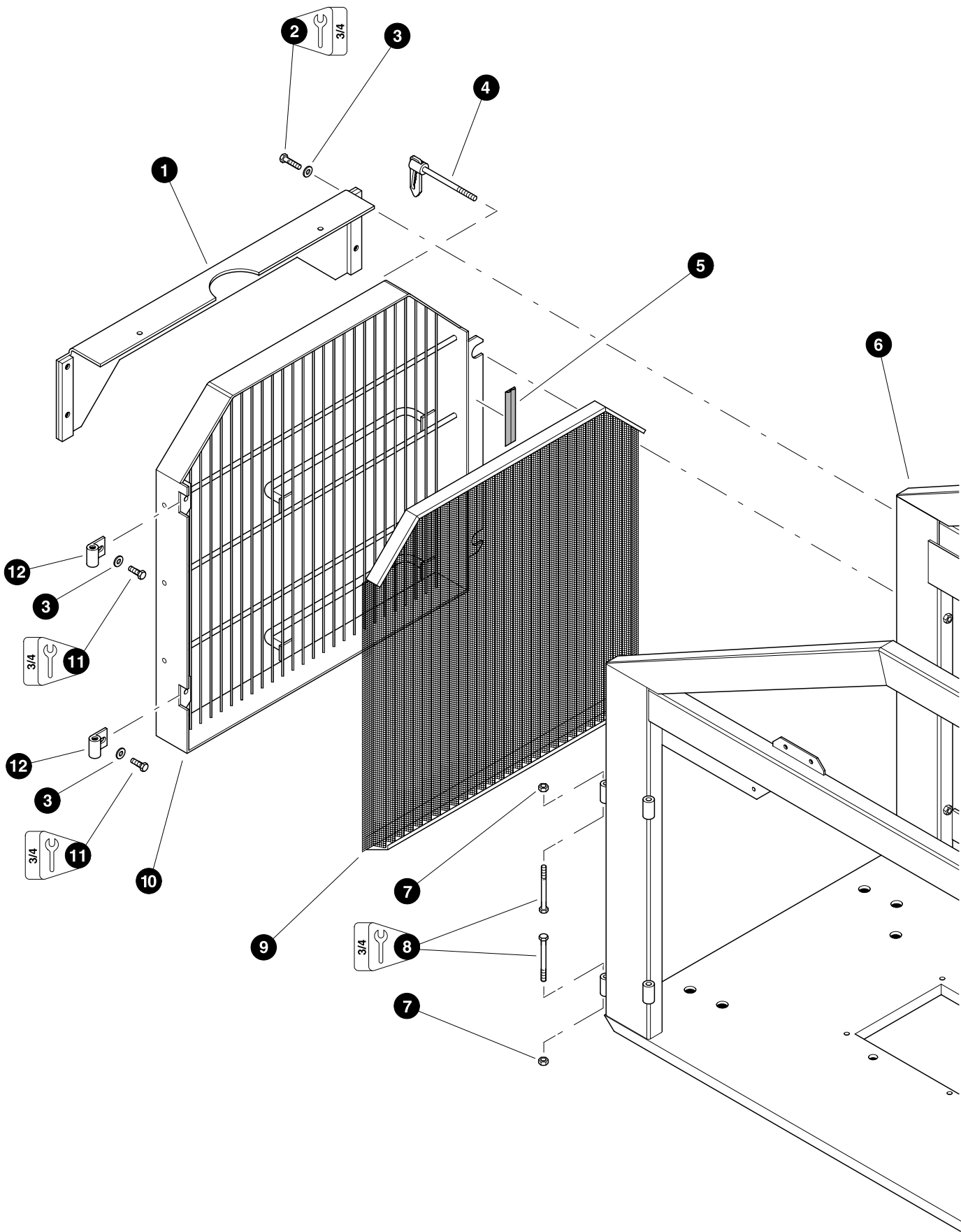


UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION

(Cab-Side Engine & Pump Compartment Guards)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	UPPER TURNTABLE WELDMENT	H.1.2
2	17506	1		INSULATION, soundproof - cab-side engine pivot guard	
3	14088	1		GUARD, cab-side engine pivot	
4	10804	3		WASHER, flat - 1/2"	
5	15534	4		WASHER, SAE flat - 1/2"	
6	10736	1		BOLT - 1/2" x 2"	
7	15565	1		BOLT - 1/2" x 2-1/2"	
8	10783	1		BOLT - 1/2" x 1"	
9	10739	1		BOLT - 1/2" x 1-1/2"	
10	17235	1		GUARD, cab-side pump compartment	
11	17507	1		INSULATION, suondproof - pump gaurd	

✓ See reference page for component or assembly breakdown.



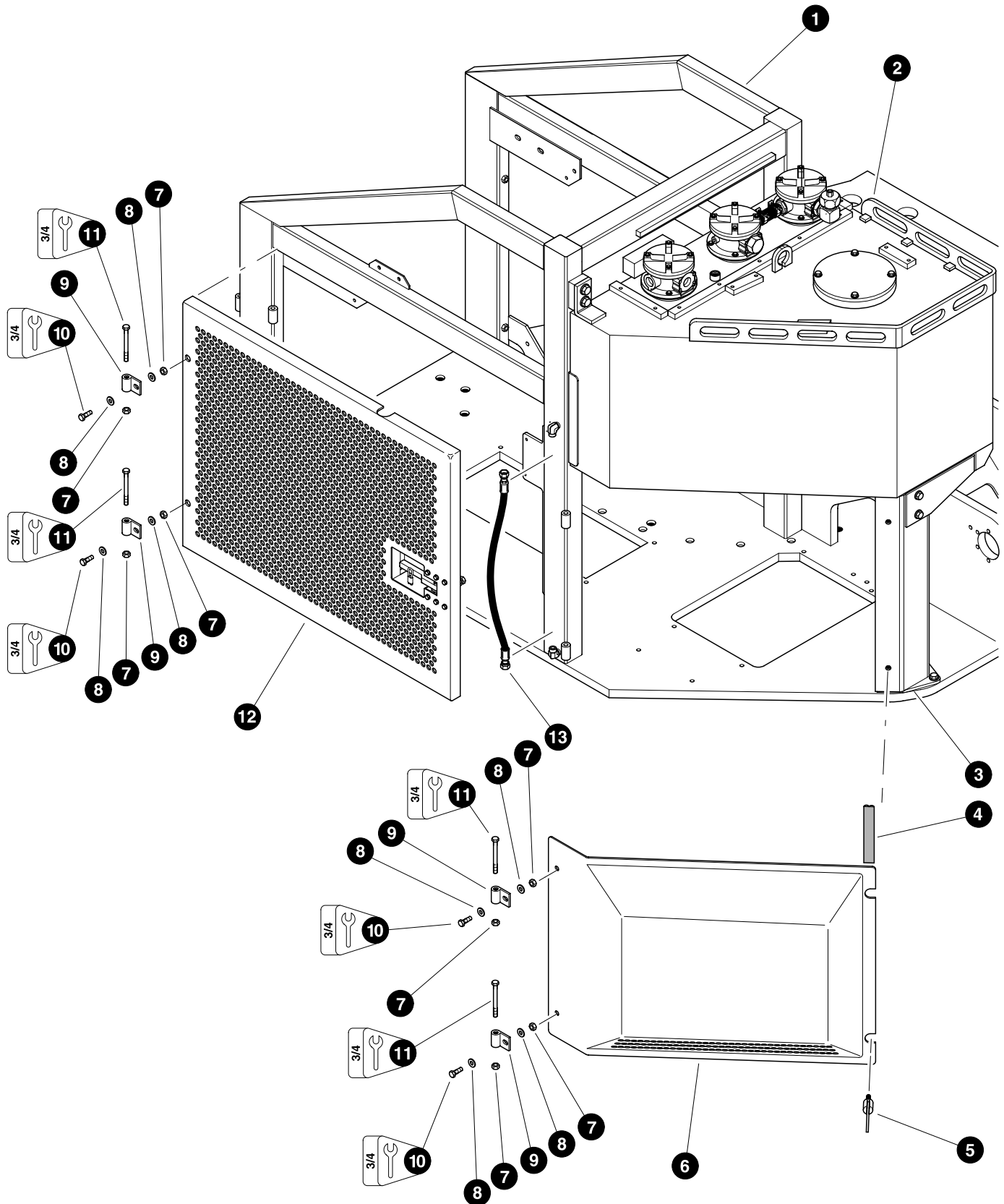
Parts 00312 12/05/97
12.50

UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION (Swing-Out Radiator Guard)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	17820	1		MEMBER, radiator support	
2	10736	4		BOLT - 1/2" x 2"	
3	15534	6		WASHER, SAE flat - 1/2"	
4	19772	2		LATCH, cam - radiator guard	
5	18126	AR	>∞	WEATHERSTRIP	
6	REF.	1	✓	UPPER TURNTABLE WELDMENT	H.1.2
7	10815	2		NUT, lock - 1/2"	
8	10705	2		BOLT - 1/2" x 5"	
9	17630	1		SCREEN, radiator protection	
10	19774	1		GUARD, swing-out radiator	
11	10783	2		BOLT - 1/2" x 1"	
12	16403	2		BRACKET, hinge	

>∞ Bulk Material - order length required in feet or meters.

✓ See reference page for component or assembly breakdown.

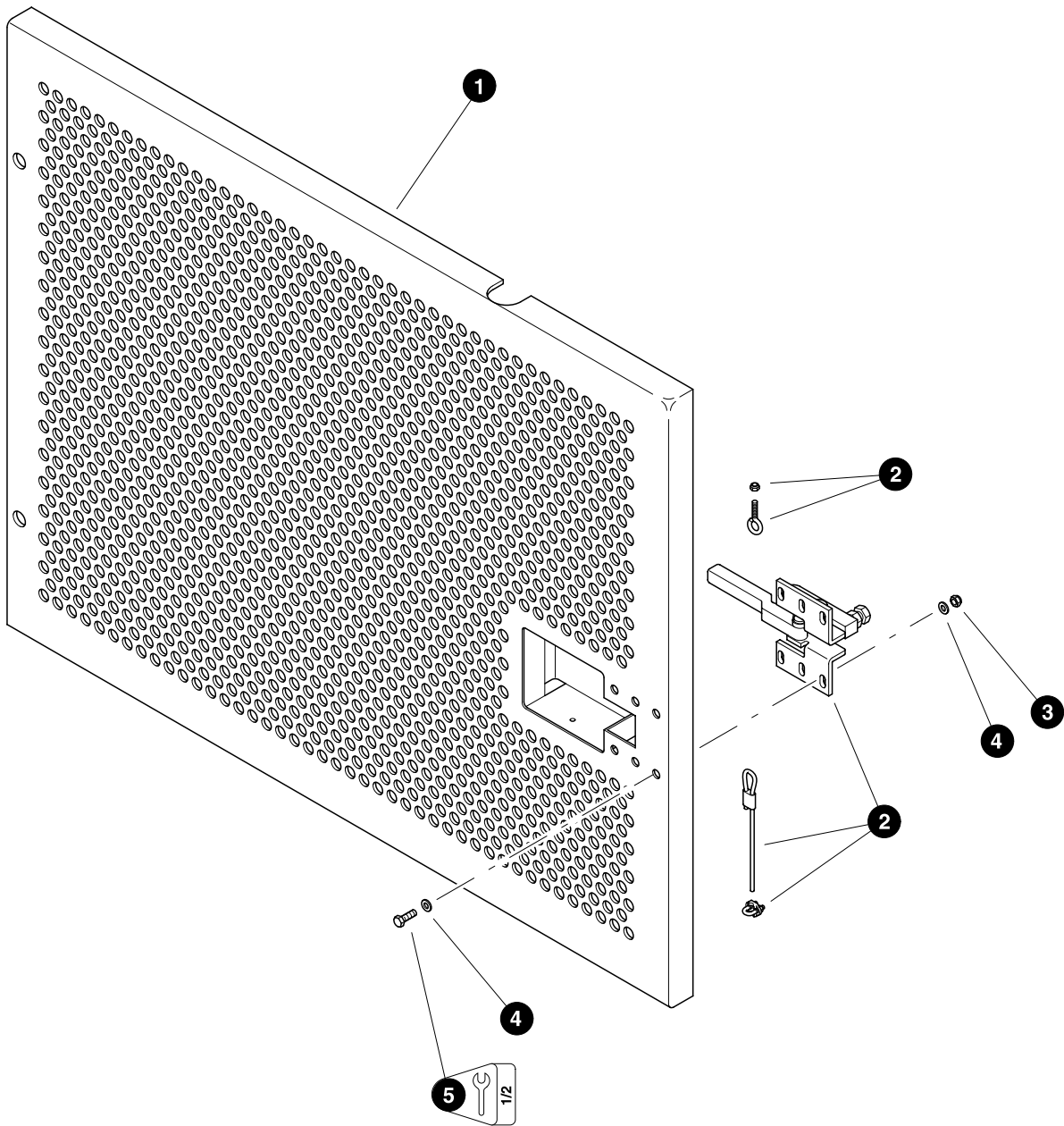


UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION

(Swing-Out Engine & Pump Compartment Guards)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	UPPER TURNTABLE WELDMENT	H.1.2
2	REF.	1	✓	HYDRAULIC TANK ASSEMBLY	E.1.2
3	REF.	1	✓	HYDRAULIC TANK SUPPORT	E.1.6
4	18126	AR	⌘	WEATHERSTRIP	
5	19771	2		LATCH, cam - swing-out pump guard	
6	19773	1		GUARD, swing-out pump	
7	10815	8		NUT, lock - 1/2"	
8	15534	8		WASHER, SAE flat - 1/2"	
9	16403	4		BRACKET, hinge	
10	10739	4		BOLT - 1/2" x 1-1/2"	
11	10705	4		BOLT - 1/2" x 5"	
12	REF.	1	✓	SWING-OUT ENGINE GUARD ASSEMBLY	H.1.16
13	22392	1		HOSE ASSEMBLY - 2032.5-08-080S-080S (Used as hand hold)	

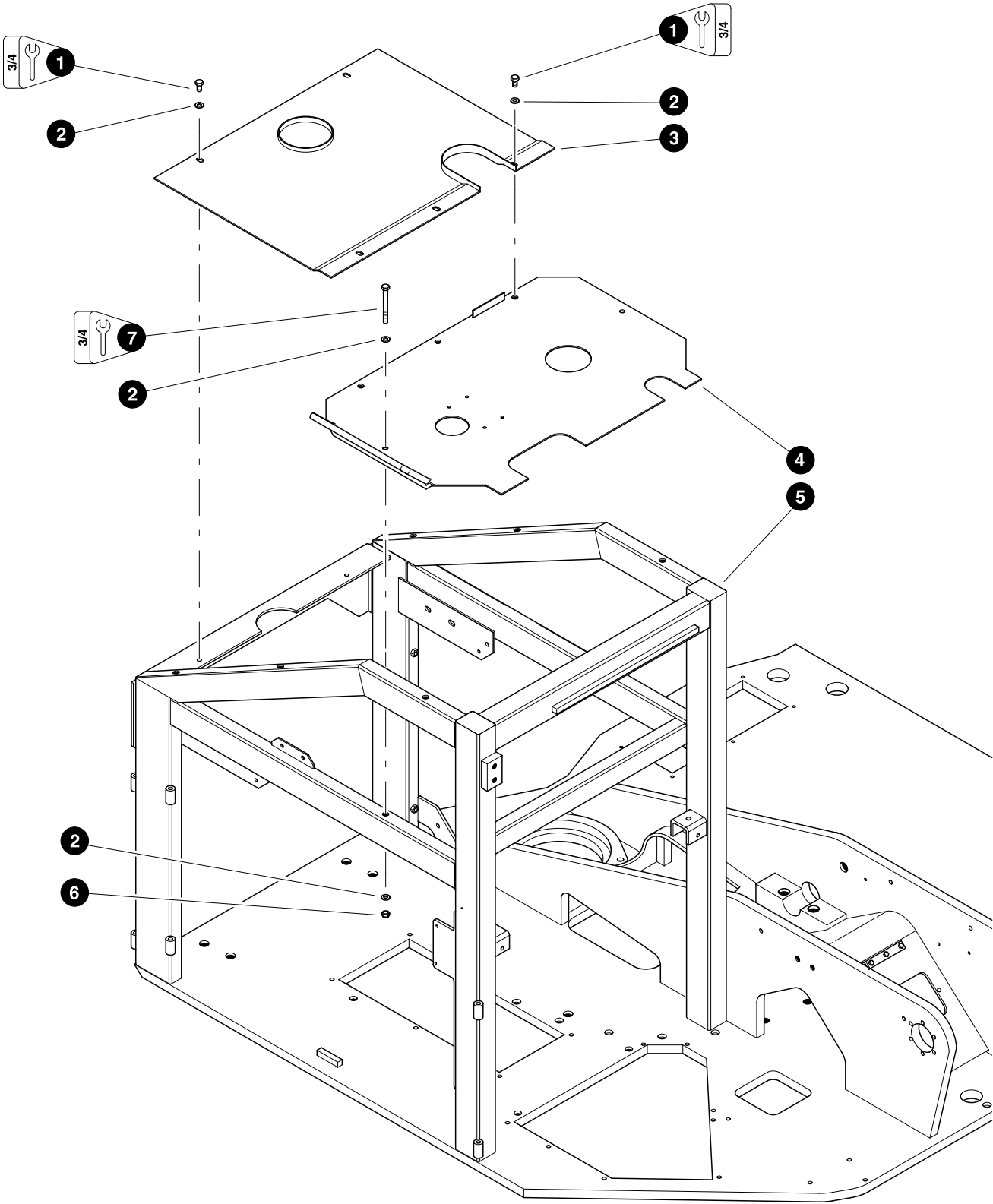
- ⌘ Bulk Material - order length required in feet or meters.
- ✓ See reference page for component or assembly breakdown.



SWING-OUT ENGINE GUARD WITH TOGGLE LATCH

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	19199	1	☐	SWING-OUT ENGINE GUARD ASSEMBLY	
1	20072	1		WELDMENT, swing-out engine guard	
2	20078	1		LATCH, toggle	
3	10788	6		NUT, nylock - 5/16"	
4	15559	6		WASHER, SAE flat - 5/16"	
5	15589	6		BOLT - 5/16" x 1"	

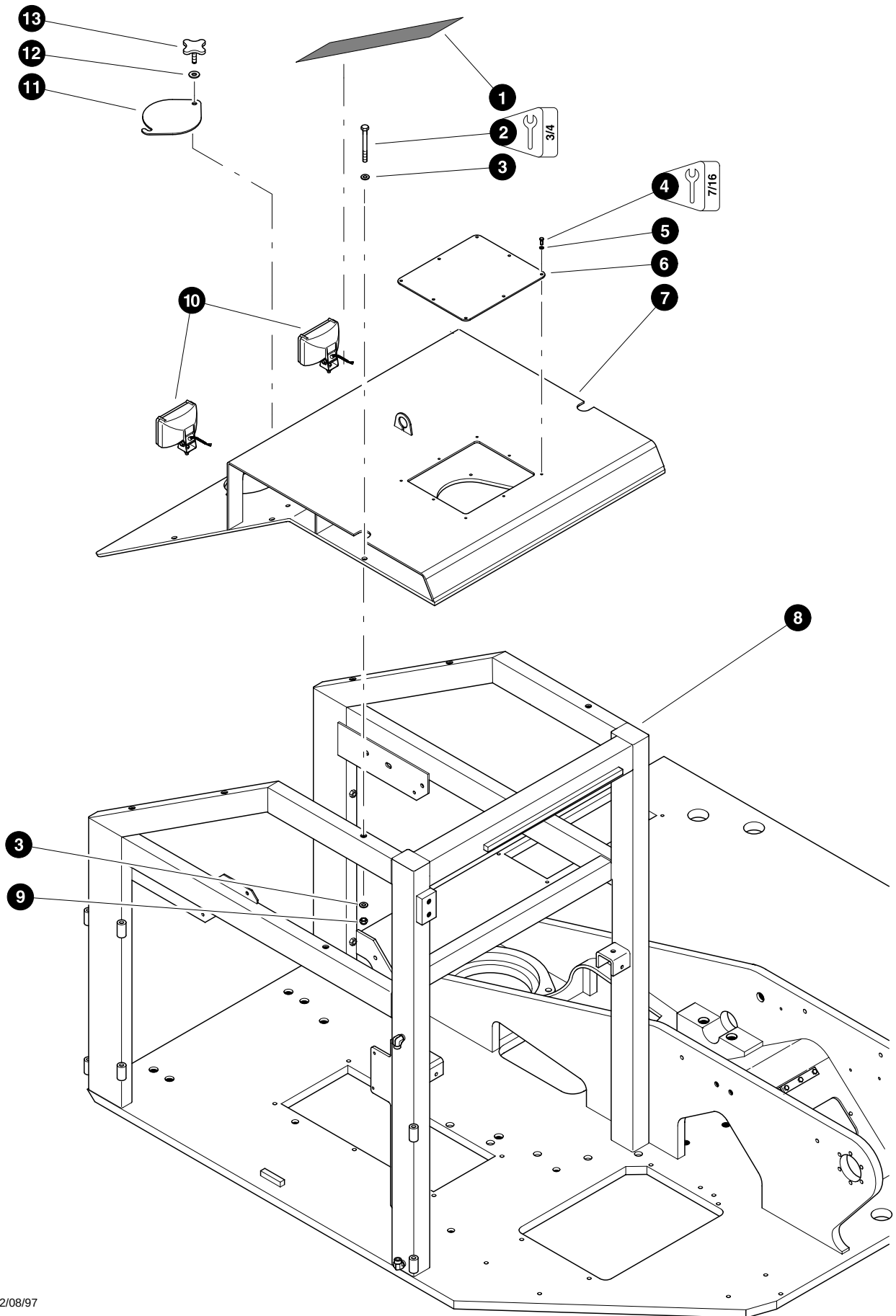
☐ Kit or Assembly - includes all items indented underneath.



UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION (Air Cleaner & Muffler Panels)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	10783	5		BOLT - 1/2" x 1"	
2	15534	9		WASHER, SAE flat - 1/2"	
3	19503	1		PANEL, muffler (Used with Cummins 6C8.3-C engine)	
	18237	1		PANEL, muffler (Used with Caterpillar 3116T engine)	
	19766	1		PANEL, muffler (Used with Caterpillar 3126T engine)	
4	18677	1		PANEL, air cleaner (Used with Cummins 6C8.3-C engine)	
	18238	1		PANEL, air cleaner (Used with Caterpillar 3116T engine)	
	19767	1		PANEL, air cleaner (Used with Caterpillar 3126T engine)	
5	REF.	1	✓	UPPER TURNTABLE WELDMENT	H.1.2
6	10815	2		NUT, lock - 1/2"	
7	10705	2		BOLT - 1/2" x 5"	

✓ See reference page for component or assembly breakdown.



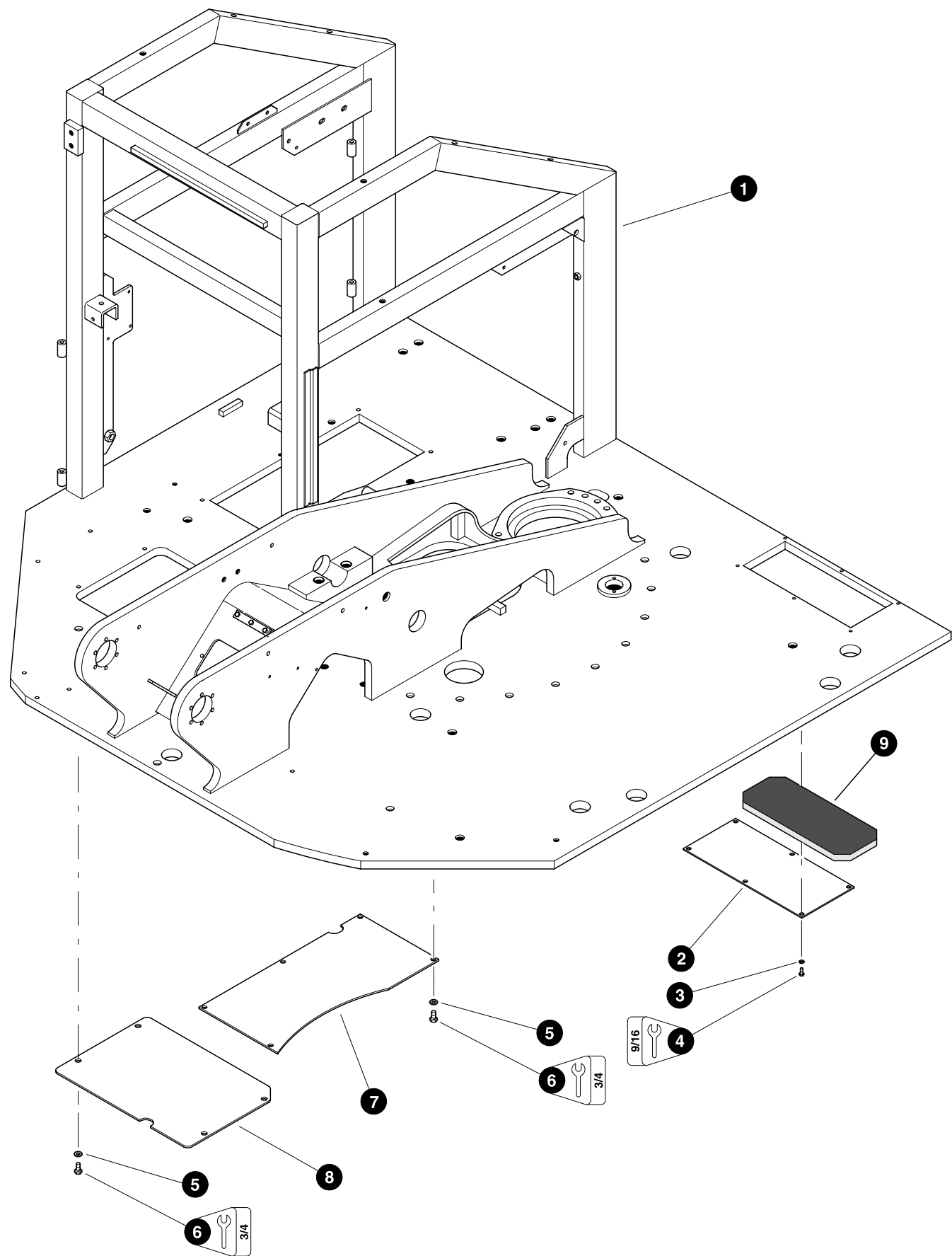
Parts 00317 12/08/97
9.375

UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION (Engine ROPS/FOPS Panel)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	16544	AR	✂	NON-SKID - 6"	
2	10705	6		BOLT - 1/2" x 5"	
3	15534	12		WASHER, SAE flat - 1/2"	
4	15604	8		BOLT - 1/4" x 3/4"	
5	10757	8		WASHER, SAE flat - 1/4"	
6	19562	6		COVER, access - ROPS panel	
7	19331	1		PANEL, ROPS/FOPS	
8	REF.	1	✓	UPPER TURNTABLE WELDMENT	H.1.2
9	10815	6		NUT, lock - 1/2"	
10	19390	2		LIGHT, rectangular - dual lamp	
11	12150	1		COVER, radiator fill access	
12	10804	2		WASHER, flat - 1/2"	
13	16849	2		KNOB, star - 1-1/2"	

✂ Bulk material - order length required in feet or meters.

✓ See reference page for component or assembly breakdown.



UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION

(Access Covers On Underside Of Upper Turntable Plate)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	UPPER TURNTABLE WELDMENT	H.1.2
2	18212	1		COVER, foot pedal access	
3	15528	6		WASHER, SAE flat - 3/8"	
4	15542	6		BOLT - 3/8" x 3/4"	
5	15534	9		WASHER, SAE flat - 1/2"	
6	10783	9		BOLT - 1/2" x 1"	
7	18235	1		COVER, oil sump access	
8	19253	1		COVER, pump access	
9	22550	1		INSULATION, foot pedal access	

✓ See reference page for component or assembly breakdown.

1

EMERGENCY ESCAPE

2

! CAUTION

Cold Weather Starting

Piston pumps will only pump oil when a control is activated. Just letting the engine idle will not warm up the hydraulic oil. With the engine at low idle, activate implement functions. As oil warms, increase engine RPM and continue activating implement functions and then travel functions. Only when the return filter back pressure gauge is in the normal operating range (5-15 psi) and the hydraulic oil temperature gauge begins to rise, can the machine be operated at full throttle.

Instrument Panel Gauges

There are 4 gauges on the Instrument panel with warning lights and sound that monitor the following:

GAUGE	SIGNALS AT	ACTION
ENGINE OIL PRESSURE	7 PSI (48 kPa)	STOP ENGINE CHECK ENGINE OIL LEVEL
WATER TEMPERATURE	210°F (99°C)	STOP ENGINE CHECK COOLANT LEVEL, BELTS, WATER PUMP & DEBRIS IN RADIATOR FINS
HYDRAULIC OIL TEMPERATURE	180 to 170°F (77°C) 180 to 190°F (82°C) 180 to 210°F (89°C)	STOP ENGINE CHECK FOR HYDRAULIC SYSTEM PROBLEM OR FOR DEBRIS IN OIL COOLER FINS
RETURN FILTER BACK PRESSURE	25 PSI (170 kPa)	STOP ENGINE CHECK FOR HYDRAULIC SYSTEM PROBLEM OR FOR DEBRIS IN OIL COOLER FINS

NOTE: The return filter can go into bypass at 25 psi (170 kPa) allowing possible hydraulic system contamination and cause severe damage.

Changing Return Filters

Filters are changed by removing the cover on the filter head (shown left). Filter head has two major pump tubes and the filter is 14 inches (355 mm) high. The filter head assembly must be removed to avoid being confined or step into the main tank (shown right).

Low Hydraulic Oil Level

Very Important! Keep oil level within green zone of the sight gauge. Low oil level may expose suction filters and allow return oil to inject air into the hydraulic system CAUSING CATASTROPHIC DAMAGE TO PISTON PUMPS.

3

! WARNING

WHEN FUELING, SERVICING OR REPAIRING, SET BOOMS ON GROUND AND SHUT DOWN ENGINE.

! WARNING

NEVER OPERATE THE MACHINE WITHOUT DOOR CLOSED AND SEAT BELT FASTENED.

! WARNING

QUALIFIED OPERATORS ONLY. STUDY OPERATORS MANUAL. INJURY OR DEATH CAN RESULT FROM UNTRAINED OPERATION.

4

! CAUTION

SEVERE STRUCTURAL DAMAGE CAN OCCUR IF TAPERED HUB ASSEMBLIES ARE NOT KEPT TIGHT

DO NOT tighten 1" bolt

Torque Tapered Hub Retaining Bolts to 100 ft-lbs, (135 Nm)

THE FOLLOWING BREAK-IN PROCEDURE MUST BE PERFORMED:

1. Torque tapered hub retaining bolts after the first 2 hours of operation (5 pivots, 1 pivot if no cab level system).
2. Torque tapered hub retaining bolts each day of operation until the tapered hub is seated (the tapered hub is seated when the retaining bolts no longer loosen with operation).
3. Torque tapered hub retaining bolts after every 50 hours of operation.
4. Visually inspect tapered hub pivots daily.

5

! NOTICE

Operating Advice For The TIMBCO TF820 Clam Bunk / Forwarder

1. Check wheel lug nut torque after the first 50 hours of operation. A loose wheel can cause extensive damage to the axle planetary and wheel hub. Torque wheel lug nuts to 600 ft-lbs.
2. Grease all driveshaft universal joints every 100 hours of operation. Especially joints to the front axle because of the driveshaft angle being used. Very wet or muddy conditions require greasing more frequently.
3. Check articulation bearing belt torque, swing bearing belt torque, and tapered hub belt torque after the first 50 hours of operation.
4. When the rocker switch is in the "TURTLE" position, the two wheel drive meters stay in maximum displacement during the next power with a top speed of 2.2 mph. In the "RABBIT" position, the wheel drive meter displacement can vary from 800 to 1800, depending upon power requirements, giving a top speed of 5.2 mph.
5. When going down a slope, do not let the machine reach maximum speed (5.2 mph) then hit the brakes or release the drive pedal abruptly which can cause the engine to over-speed. This could cause the wheel drive meters to exceed the maximum RPM or an abrupt braking could cause damage to the single speed gearbox.
6. Control engine RPM by the drive pedal. The drive pedal is controlling the displacement of the wheel drive pump. At maximum displacement, the machine will have the greatest speed and require the most horsepower. By backing off the drive pedal, pump displacement is reduced resulting less engine horsepower but still maintaining pressure as the machine will continue to move, although slower. Keep the engine RPM high so it is not always lugging down.
7. When going back to pick up a load, clamp the grapple to the clam bar (Clam Bunk machines) or leg bunk (Forwarder machines). Then put the loader in SWING DETENT and REVERSE STEER. This way there is never the need to turn around.
8. When loading, idle the engine to about 1700 RPM. The loader will work fast at this RPM and you will not waste fuel.
9. Be conscious of the wheel drive pressure gauge at the top of the instrument panel. This gauge shows the pressure required to move the machine. At 6000 PSI the wheel drive pump goes out of stroke and the machine will not move.
10. Only use the differential lock when needed. Release immediately when not needed.
11. When going back to pick up a load with the Clam Bunk, keep the clam bunk arms open. When closed, the clam arm tips could contact the wheels as the axle rotates over rough ground.
12. It is very important to read the Operation & Maintenance manual so that the operation and maintenance of the machine is fully understood. The TIMBCO TF820 is a great product, but it is only as good as the individual who operates and maintains it.

12

MAXIMUM TIRE INFLATION

PRESTONE 18x4.25	35 PSI (240 kPa)
PRESTONE 22x4.25	35 PSI (240 kPa)
PRESTONE 26x4.25	35 PSI (240 kPa)
PRESTONE 34 x 37	35 PSI (240 kPa)
PRESTONE 700/50-26.5	60 PSI (415 kPa)
NOKIAN 700/50-26.5	50 PSI (345 kPa)

Contact your TIMBCO dealer for correct tire pressure when using wheel tracks

TORQUE WHEEL LUG NUTS
600 ft-lbs, (800 Nm)

11

! NOTICE

REMOVE RED POSITIVE BATTERY CABLE BEFORE WELDING.

FAILURE TO DO SO MAY RESULT IN DAMAGE TO ELECTRICAL COMPONENTS.

6

CLAMP ARM CONTINUOUSLY HOLD WHILE TRAVELING WITH A LOAD.

RIGHT

! NOTICE

ONLY USE CLAMP ARMS CONTINUOUSLY HOLD WHILE TRAVELING WITH A LOAD.

LEFT



10

CALIFORNIA
Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

9

7

! WARNING

CHECK OPERATION OF EMERGENCY ESCAPE HATCH EVERY 50 HOURS. LOOSEN THE STAR KNOBS 3/4 TURN AND PUSH/PULL ON ESCAPE HATCH. THE HATCH SHOULD NOT STICK. IF HATCH STICKS, REMOVE IT COMPLETELY AND APPLY "ANTI-SEIZE" TO RUBBER SEAL. REINSTALL HATCH AND TIGHTEN ALL STAR KNOBS.

8

ATTENTION: Diagrams below represent factory original control locations. Alterations to controls become the sole responsibility of the owner.

Lower Main Boom

Swing Left / Swing Right

Raise Main Boom

A) Grapple Open
B) Grapple Close

LEFT

Stick Boom In / Stick Boom Out

Steer Left / Steer Right

A) Grapple Rotate CCW
B) Grapple Rotate CW

RIGHT

DECALS (Inside Cab)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	19539	3	DECAL, emergency escape (Rear and front escapes)	
2	16063	1	DECAL, gauge cautions (Above dash panel)	
3	16061	1	DECAL, cab warning strip (Upper headliner)	
4	18066	1	DECAL, tapered hub torque (Dash panel side plate)	
5	21679	1	DECAL, cab operating instructions (Inside cab door)	
6	20096	1	DECAL, clam bunk arm control (Above dash)	
7	18660	1	DECAL, control diagram (Above dash)	
8	22230	2	DECAL, emergency escape check (Above rear escape hatch)	
9	18337	1	DECAL, California diesel exhaust warning (Above rear escape hatch)	
10	19540	8	DECAL, emergency escape - 1-1/2" (On all star knobs)	
11	19364	1	DECAL, welding notice (Inside cab door)	
12	19678	1	DECAL, maximum tire inflation (Inside cab door)	

Special Component Break-In Schedule

Section #	Hour Interval	Task	Frequency
1	0-100	Torque Tapered Hub Retaining Bolts (100 ft-lbs. (135 Nm))	Daily
	100-200	Check Air Differential Oil Level	Daily
	200-300	Check Engine Oil Level	Daily
	300-400	Check Hydraulic Oil Level	Daily
	400-500	Torque Wheel Lug Nuts (300 ft-lbs. (400 Nm))	Daily
	500-600	Torque Swing Motor Mounting Bolts (240 ft-lbs. (320 Nm))	Daily
	600-700	Torque Hydraulic Tank Mounting Bolts (200 ft-lbs. (270 Nm))	Daily
	700-800	Torque Frame Articulation Bearing Mounting Bolts (300 ft-lbs. (400 Nm))	Daily
	800-900	Torque Air Mounting Bolts (200 ft-lbs. (270 Nm))	Daily
	900-1000	Torque Differential Carrier Bearing Mounting Bolts (100 ft-lbs. (135 Nm))	Daily
2	0-100	Change Hydraulic Oil Filter	Daily
	100-200	Check Engine Valve Lash (Also Reference Engine Manual)	Daily
	200-300	Check Cummins Engine Valve Lash (Also Reference Engine Manual)	Daily
	300-400	Check Hydraulic Oil Filter	Daily
	400-500	Check Engine Valve Lash (Also Reference Engine Manual)	Daily
	500-600	Check Cummins Engine Valve Lash (Also Reference Engine Manual)	Daily
	600-700	Check Hydraulic Oil Filter	Daily
	700-800	Check Engine Valve Lash (Also Reference Engine Manual)	Daily
	800-900	Check Cummins Engine Valve Lash (Also Reference Engine Manual)	Daily
	900-1000	Check Hydraulic Oil Filter	Daily

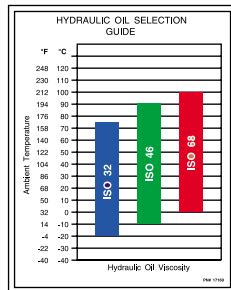
Lubrication Points Diagram - Machine

Preventive Maintenance Chart

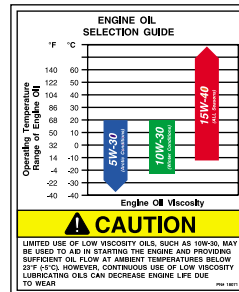
Section #	Hour Interval	Task	Frequency
1	0-100	Check for Loose or Missing Fasteners	Daily
	100-200	Check Hydraulic Hoses	Daily
	200-300	Check Hydraulic Hoses for Kinks or Damage	Daily
	300-400	Lubricate Boom, Cylinder & Frame Articulation Points (Lubricate #170)	Daily
	400-500	Lubricate Frame Articulation Bearing Mounting Bolts (300 ft-lbs. (400 Nm))	Daily
	500-600	Lubricate Swing Bearing Hinge (See Lubricate #170)	Daily
	600-700	Lubricate Hydraulic Pump & Case (See Engine Manual)	Daily
	700-800	Check Engine Oil Level	Daily
	800-900	Check Hydraulic Oil Level	Daily
	900-1000	Check Engine Valve Lash	Daily
2	0-100	Check Hydraulic Oil Filter	Daily
	100-200	Check Engine Valve Lash (Also Reference Engine Manual)	Daily
	200-300	Check Cummins Engine Valve Lash (Also Reference Engine Manual)	Daily
	300-400	Check Hydraulic Oil Filter	Daily
	400-500	Check Engine Valve Lash (Also Reference Engine Manual)	Daily
	500-600	Check Cummins Engine Valve Lash (Also Reference Engine Manual)	Daily
	600-700	Check Hydraulic Oil Filter	Daily
	700-800	Check Engine Valve Lash (Also Reference Engine Manual)	Daily
	800-900	Check Cummins Engine Valve Lash (Also Reference Engine Manual)	Daily
	900-1000	Check Hydraulic Oil Filter	Daily

Lubrication Points Diagram - Optional Clam Bunk

6



2



5

CAUTION

AFTER SERVICING THE HYDRAULIC SYSTEM ON THIS MACHINE, BE SURE ALL HYDRAULIC PUMP AND MOTOR CASES ARE FILLED TO THE LEVEL OF THE HIGHEST CASE DRAIN OR VENT PORT WITH THE SAME HYDRAULIC OIL USED IN THE SYSTEM.

IF THERE HAS BEEN A CATASTROPHIC PUMP OR MOTOR FAILURE, BE SURE ALL HOSES AND TUBELINES HAVE BEEN FLUSHED TO REMOVE DEBRIS.

FAILURE TO DO SO MAY RESULT IN SEVERE DAMAGE TO THE PUMPS AND MOTORS ON START-UP.

3

CAUTION

SEVERE STRUCTURAL DAMAGE CAN OCCUR IF TAPERED HUB ASSEMBLIES ARE NOT KEPT TIGHT

DO NOT tighten 1" bolt

Torque Tapered Hub Retaining Bolts to 100 ft-lbs. (135 Nm)

THE FOLLOWING BREAK-IN PROCEDURE MUST BE PERFORMED:

1. Torque tapered hub retaining bolts after the first 2 hours of operation (5 pivots, 1 pivot if no cab level system).
2. Torque tapered hub retaining bolts each day of operation until the tapered hub is seated (the tapered hub is seated when the retaining bolts no longer loosen with operation).
3. Torque tapered hub retaining bolts after every 50 hours of operation.
4. Visually inspect tapered hub pivots daily.

4

CAUTION

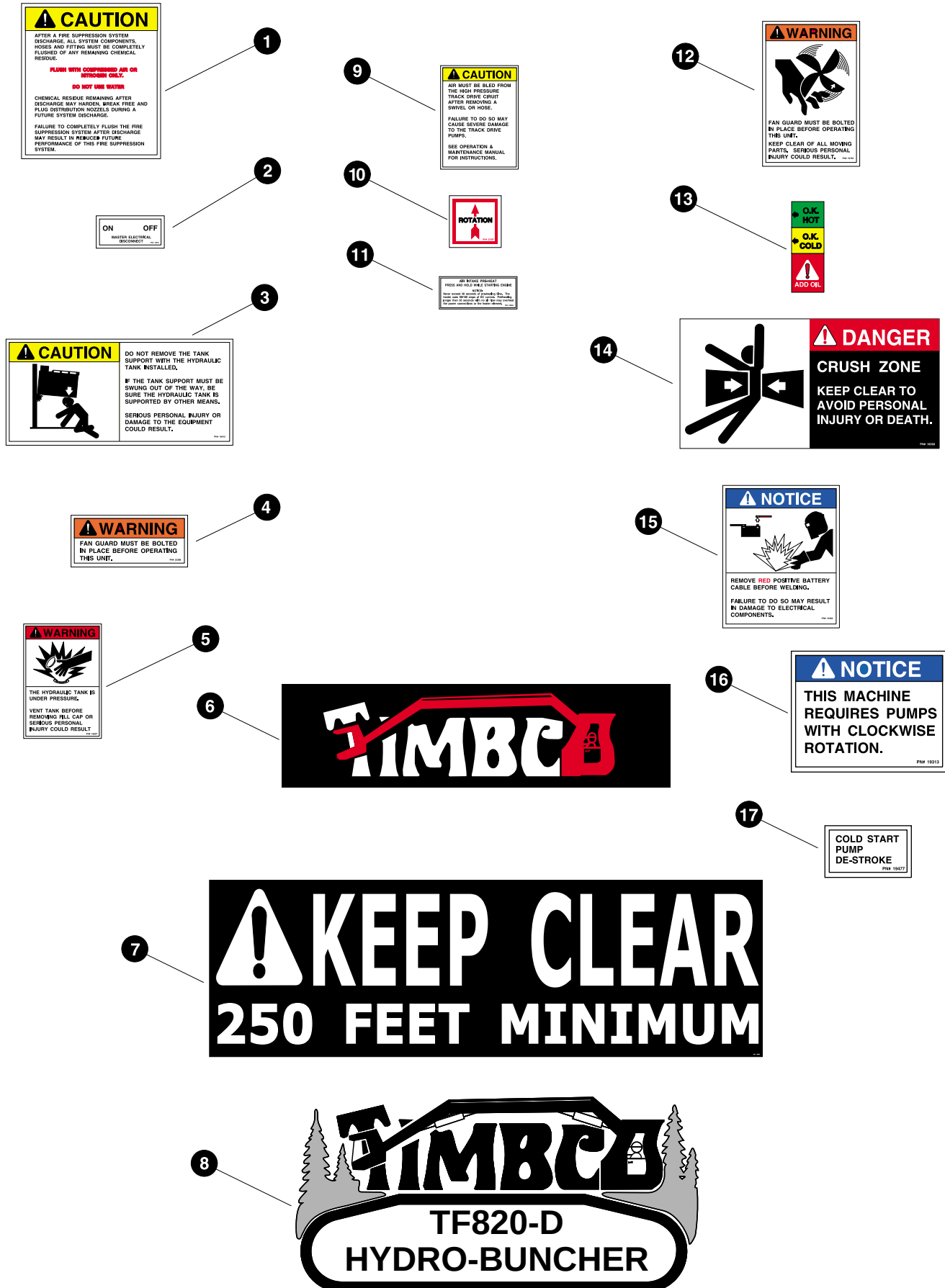
AIR MUST BE BLED FROM THE HIGH PRESSURE TRACK DRIVE CIRCUIT AFTER REMOVING A SWIVEL OR HOSE.

FAILURE TO DO SO MAY CAUSE SEVERE DAMAGE TO THE TRACK DRIVE PUMPS.

SEE OPERATION & MAINTENANCE MANUAL FOR INSTRUCTIONS.

DECALS
(Inside Pump Cover)

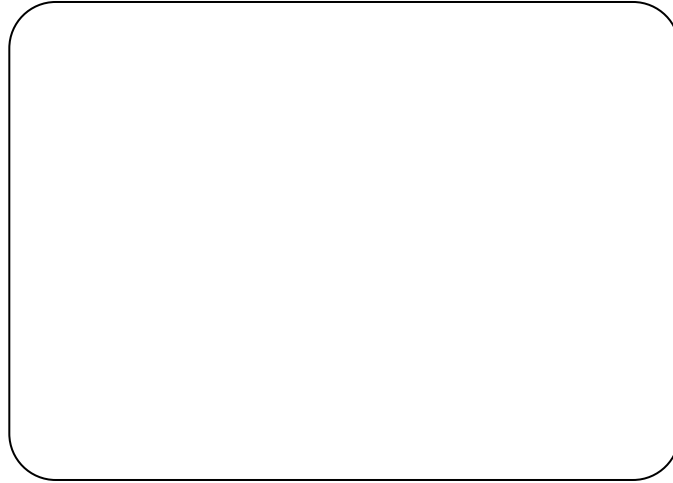
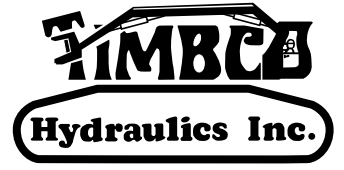
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	20947	1	DECAL, preventive maintenance	
2	18071	1	DECAL, engine oil selection guide	
3	18066	1	DECAL, tapered hub torque	
4	18069	2	DECAL, hydrostatic bleed caution	
5	18075	1	DECAL, pump/motor case drain	
6	17160	1	DECAL, hydraulic oil selection guide	



DECALS (Exterior & Misc.)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	17575	1	DECAL, fire suppression tank (On dry chemical tank) (Optional)	
2	16916	1	DECAL, master disconnect (On battery box bracket)(Optional)	
3	16415	1	DECAL, hydraulic tank support (Located in boom tunnel)	
4	22388	2	DECAL, fan guard warning (Located in boom tunnel on radiator & located in engine swing out door on radiator)	
5	16607	1	DECAL, pressurized hydraulic tank (On filter cover)	
6	16064	1	DECAL, Timbco logo - 4" x 15" (On ROPS panel over engine)	
7	16059	4	DECAL, keep clear (Main boom and rear hydraulic tank)	
8	21960	2	DECAL, door logo - TF820-D (Outside cab door & on swing out pump)	
9	18069	2	DECAL, hydrostatic bleed caution (Inside pump swing out door & inside track motor housing)	
10	22387	1	DECAL, engine fan rotation (Located in boom tunnel on radiator & located in engine swing out door on radiator)	
11	20840	1	DECAL, cat intake pre-heat	
12	19765	1	DECAL, keep clear of moving parts (Located in boom tunnel on radiator & located in engine swing out door on radiator)	
13	16879	1	DECAL, sight gauge (Next to hydraulic tank sight glass)	
14	16060	5	DECAL, crush zone (Frame sides near axles and left side cab near swing motor)	
15	19364	1	DECAL, welding notice	
16	19313	1	DECAL, pump rotation	
17	19477	1	DECAL, cold start pump de-stroke	

Section H.2

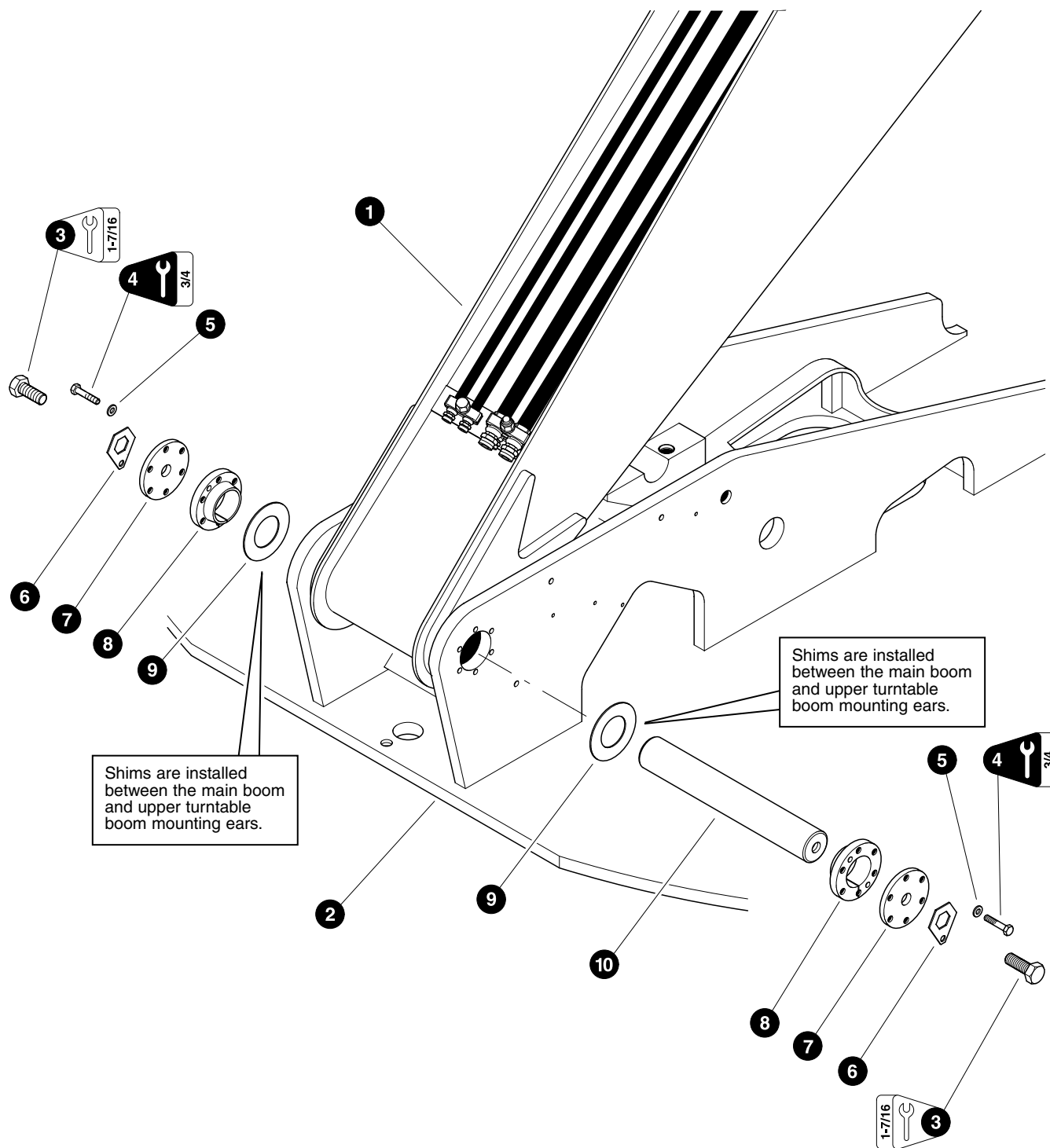


Structural Components - Main Boom

MAIN BOOM COMPONENTS (Welded Box Design)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	85100	1	☐	WELDMENT, main boom	
2	20049	1		SPACER, nose - 3" x 1-1/2"	
3	11706	4		BUSHING - 3" x 4-1/4"	
4	12365	1		SPACER, base - 3" x 7-1/2"	
5	15563	4		NUT, nylock - 5/8"	
6	10771	10		WASHER, SAE flat - 5/8"	
7	15672	4		STUD - 5/8" x 6-1/4"	
8	19324	5		CLAMP, tubeline - 3/4" x 3/4"	
9	20794	2		HOSE ASSEMBLY - 4155-12-120MS-120MS	
10	15526	6		BOLT - 5/8" x 2"	
11	15272	10		CLAMP, tubeline - 1/2" x 1/2"	
12	20795	4		HOSE ASSEMBLY - 4207-08-080MS-080MS	

☐ Kit or Assembly - includes all items indented underneath.

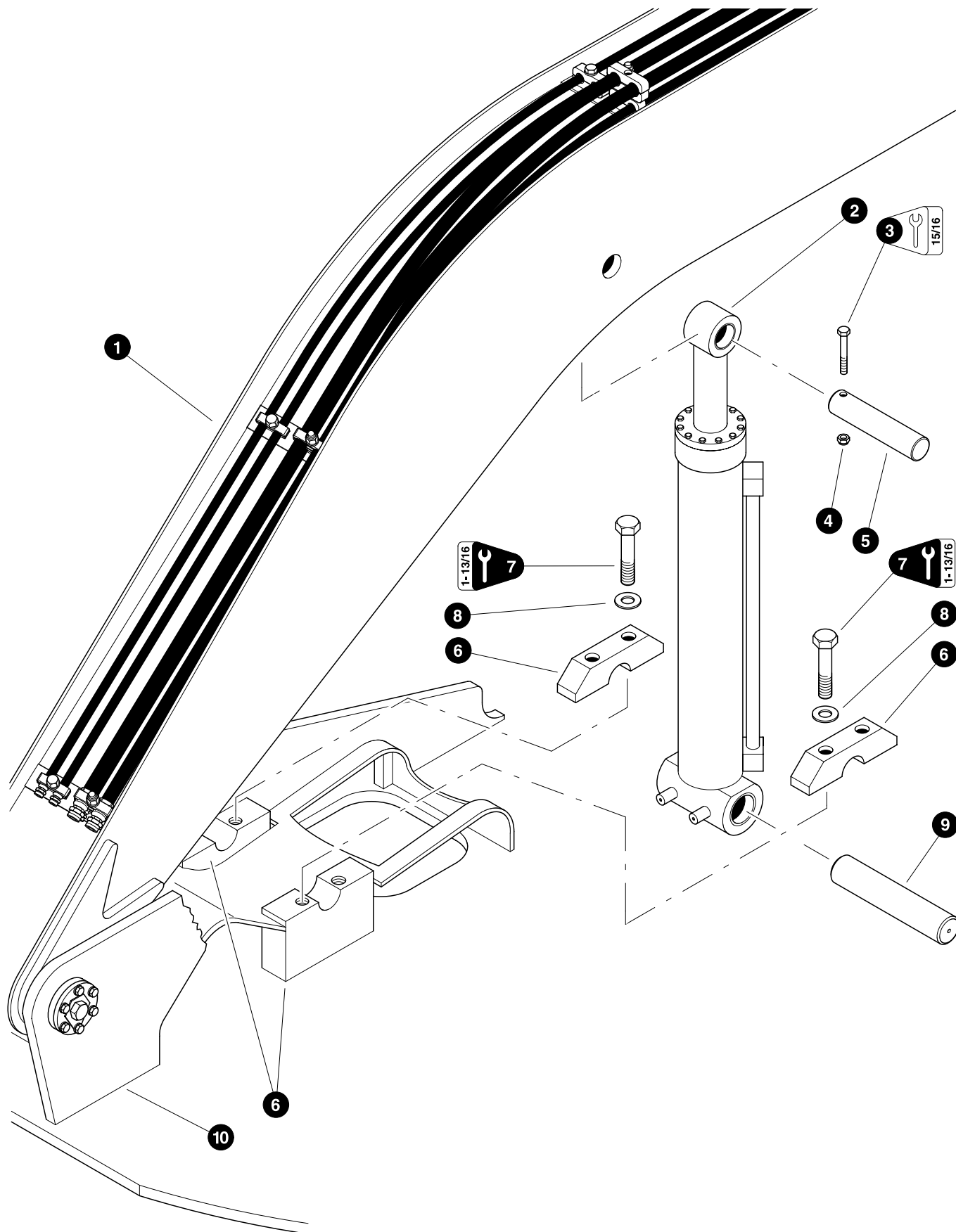


MAIN BOOM INSTALLATION

(Welded Box Design)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN BOOM ASSEMBLY	H.2.2
2	REF.	1	✓	UPPER TURNTABLE WELDMENT	H.1.2
3	15552	2		BOLT - 1" x 2-1/2"	
4	15565	12		BOLT - 1/2" x 2-1/2" (<i>Torque to 100 ft.lbs. (135 Nm)</i>)	
5	15534	12		WASHER, SAE flat - 1/2"	
6	12116	2		LOCK, center tapered hub bolt	
7	12115	2		CAP, tapered hub	
8	12352	2		HUB, tapered - 1-1/4" plate	
9	19150	AR		SHIM - 1/4" thick	
	16633	AR		SHIM - 7 gauge	
	16637	AR		SHIM - 10 gauge	
	16638	AR		SHIM - 14 gauge	
10	18050	1		PIN, chromed - 3" x 20"	

- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.



Parts 00525 04/06/98
12.50

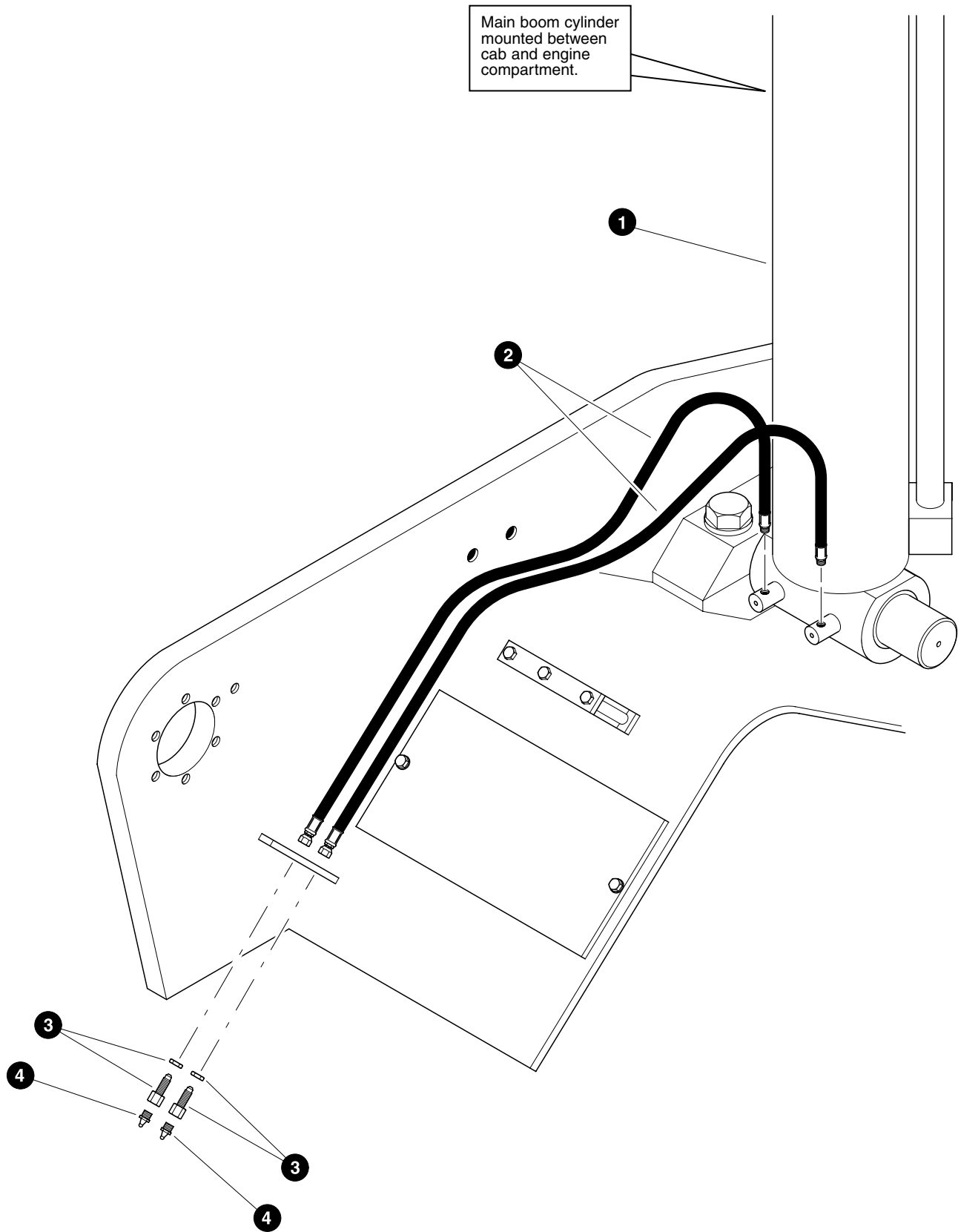
MAIN BOOM (HOIST) CYLINDER INSTALLATION (Welded Box Design)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN BOOM ASSEMBLY	H.2.2
2	REF.	1	✓	MAIN BOOM (HOIST) CYLINDER	E.2.2
3	10838	1		BOLT - 5/8" x 5"	
4	15563	1		NUT, nylock - 5/8"	
5	18895	1		PIN, chromed - 2-1/2" x 13-7/8"	
6	12351	2	☐	WELDMENT, pin retainer block - 3" pin <i>(See note below)</i>	
	12066	1		BLOCK, bottom	
	12067	1		BLOCK, top	
7	15543	2		BOLT - 1-1/4" x 5-1/2" <i>(Torque to 1500 ft.lbs. (2000 Nm))</i>	
8	15544	2		WASHER, flat - 1-1/4"	
9	18053	1		PIN, chromed - 3" x 14-1/2"	
10	REF.	1	✓	UPPER TURNTABLE WELDMENT	H.1.2

- ✓ See referenced page for component or assembly breakdown.
- ☐ Kit or Assembly - includes all items indented underneath.

Note:

The pin retainer block weldments are machined assembled, therefore, the top (PN# 12067) and bottom (PN# 12066) blocks are a matched set. Timbco recommends installing a complete block weldment if either the top or bottom block must be replaced. This will insure the two halves mate properly to retain the pin.



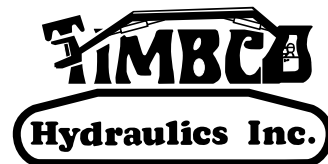
Parts 00046 04/23/96
25.00

MAIN BOOM (HOIST) CYLINDER GREASE LINES

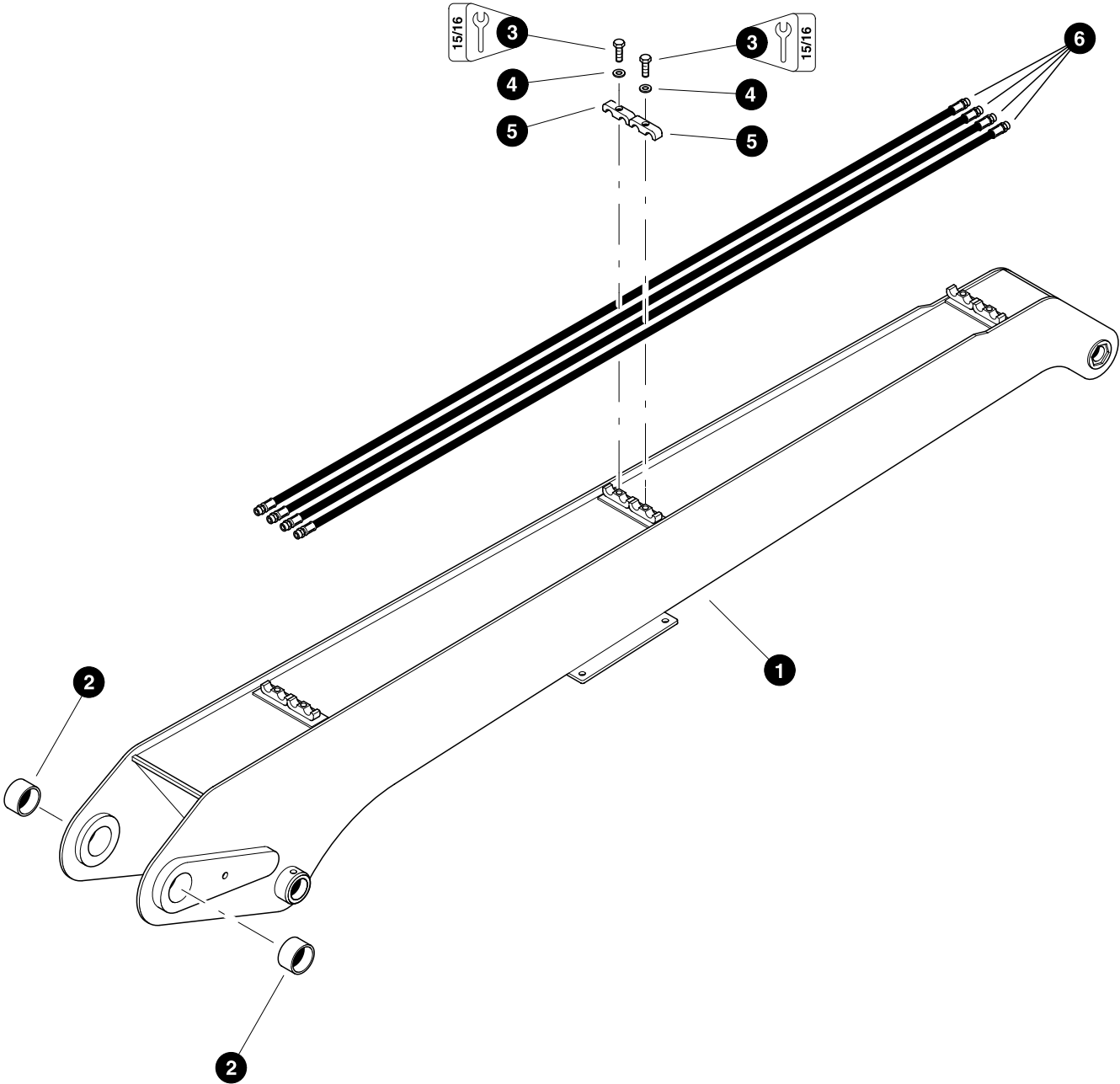
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN BOOM (HOIST) CYLINDER	E.2.2
2	17360	2		HOSE ASSEMBLY - 2044-04-04PS-04JS (<i>Grease line from rear of upper turntable to base of main boom cylinder</i>)	
3	15658	2		CONNECTOR, straight bulkhead - 2239-2-4S	
4	10704	2		FITTING, straight grease - 1/8" pipe thread	

✓ See referenced page for component or assembly breakdown.

Section H.3



Structural Components - Stick Boom



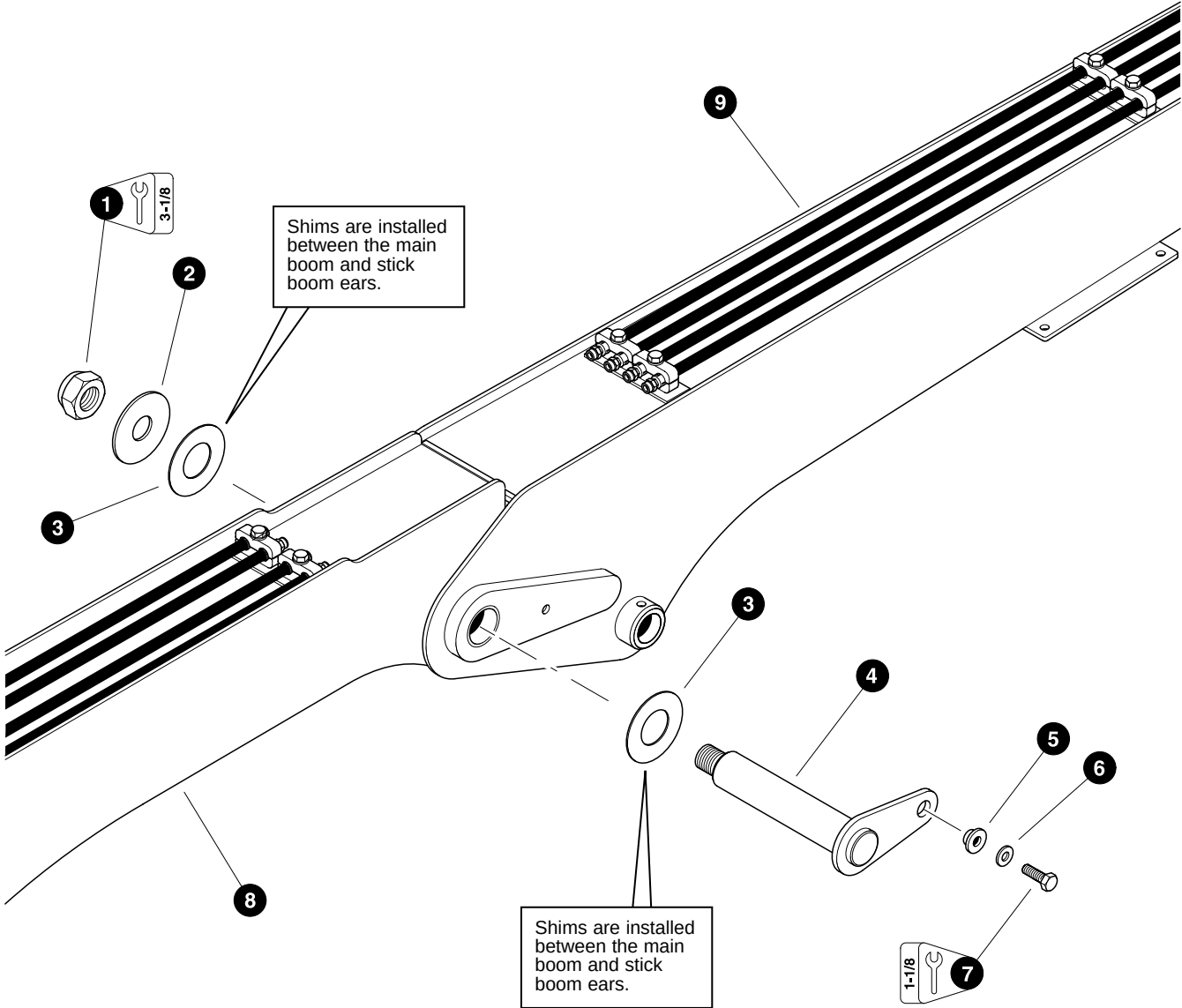
Parts 00526 04/06/98
9.375

STICK BOOM COMPONENTS

(Welded Box Design)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	85000	1	☐	WELDMENT, stick boom	
2	20048	2		BUSHING - 3" x 2"	
3	15526	6		BOLT - 5/8" x 2"	
4	10771	6		WASHER, SAE flat - 5/8"	
5	15272	6		CLAMP, tubeline - 1/2" x 1/2"	
6	20793	4		HOSE ASSEMBLY - 4108-08-08OMS-08OMS	

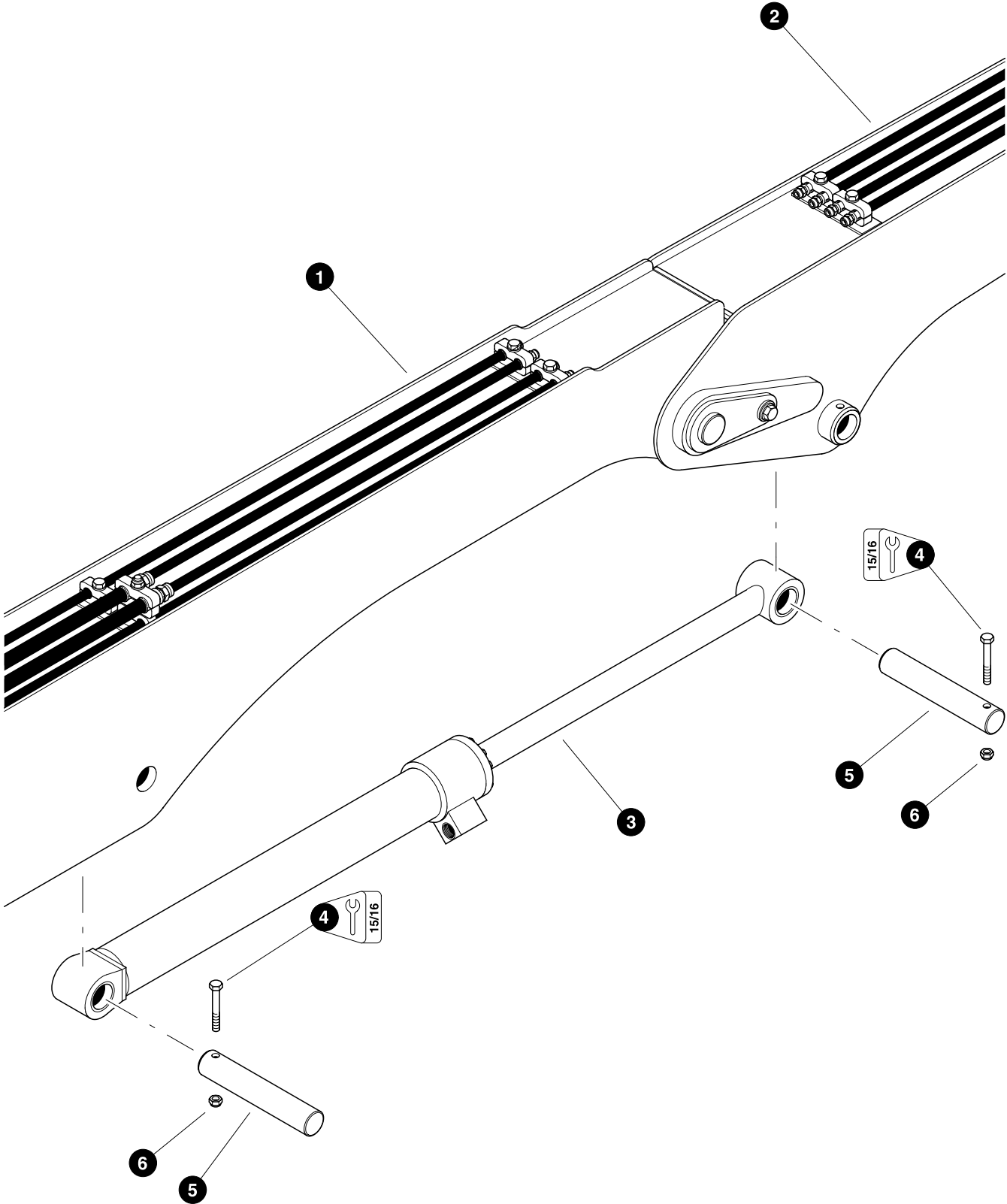
☐ Kit or Assembly - includes all items indented underneath.



STICK BOOM INSTALLATION (Welded Box Design)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	10728	1		NUT, nylock - 2"	
2	19384	1		WASHER, burned	
3	19150	AR		SHIM - 1/4" thick	
	16633	AR		SHIM - 7 gauge	
	16637	AR		SHIM - 10 gauge	
	16638	AR		SHIM - 14 gauge	
4	20044	1		PIN, boom knuckle - 3"	
5	18570	1		WASHER, pin retaining	
6	15550	1		WASHER, SAE flat - 3/4"	
7	15549	1		BOLT - 3/4" x 2"	
8	REF.	1	✓	MAIN BOOM ASSEMBLY	H.2.2
9	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2

✓ See referenced page for component or assembly breakdown.

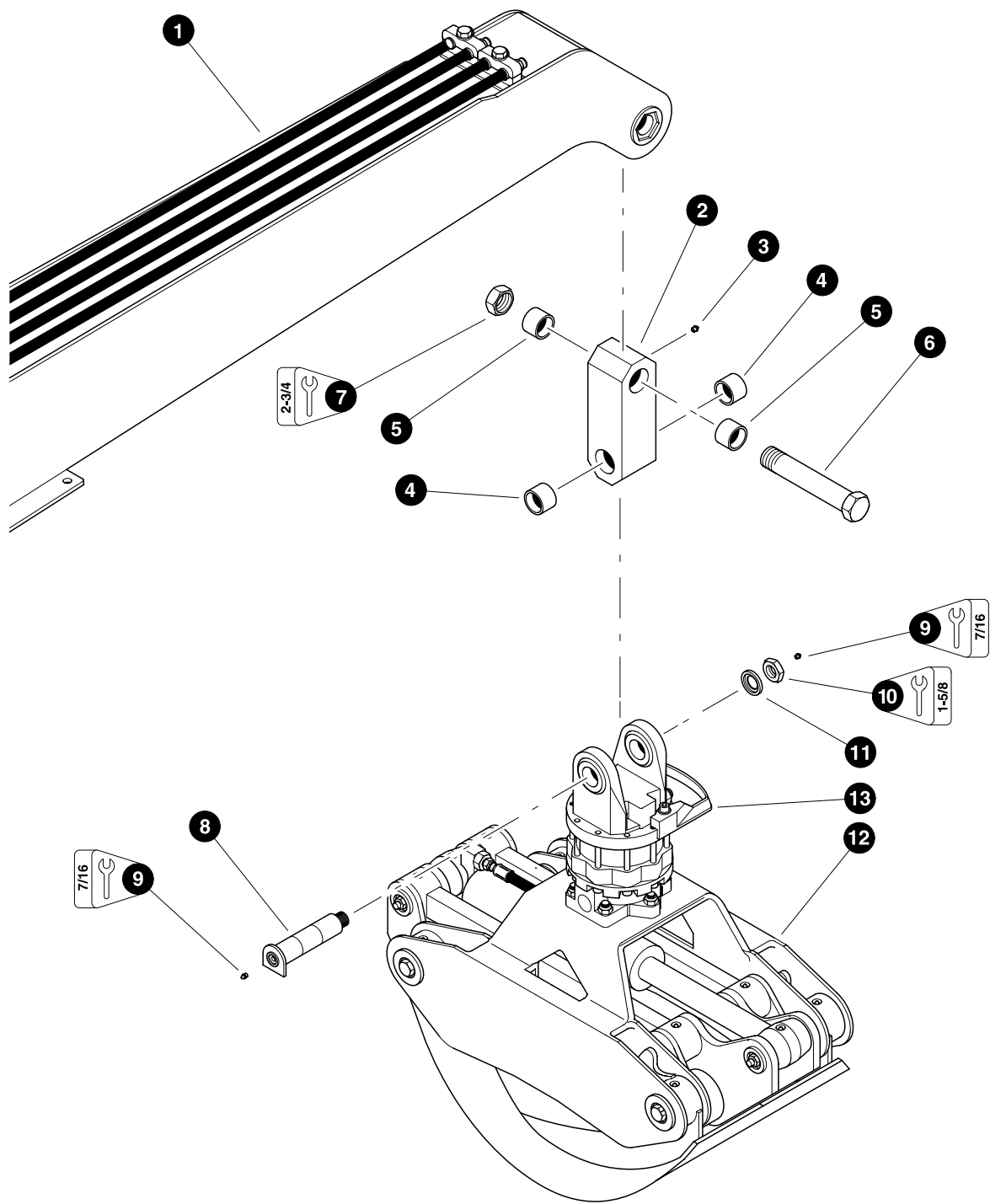


Parts 00528 04/06/98
12.50

STICK BOOM (JIB) CYLINDER INSTALLATION (Welded Box Design)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN BOOM ASSEMBLY	H.2.2
2	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2
3	REF.	1	✓	STICK BOOM (JIB) CYLINDER	E.2.4
4	10838	2		BOLT - 5/8" x 5"	
5	18895	2		PIN, chromed - 2-1/2" x 13-7/8"	
6	15563	2		NUT, nylock - 5/8"	

✓ See referenced page for component or assembly breakdown.

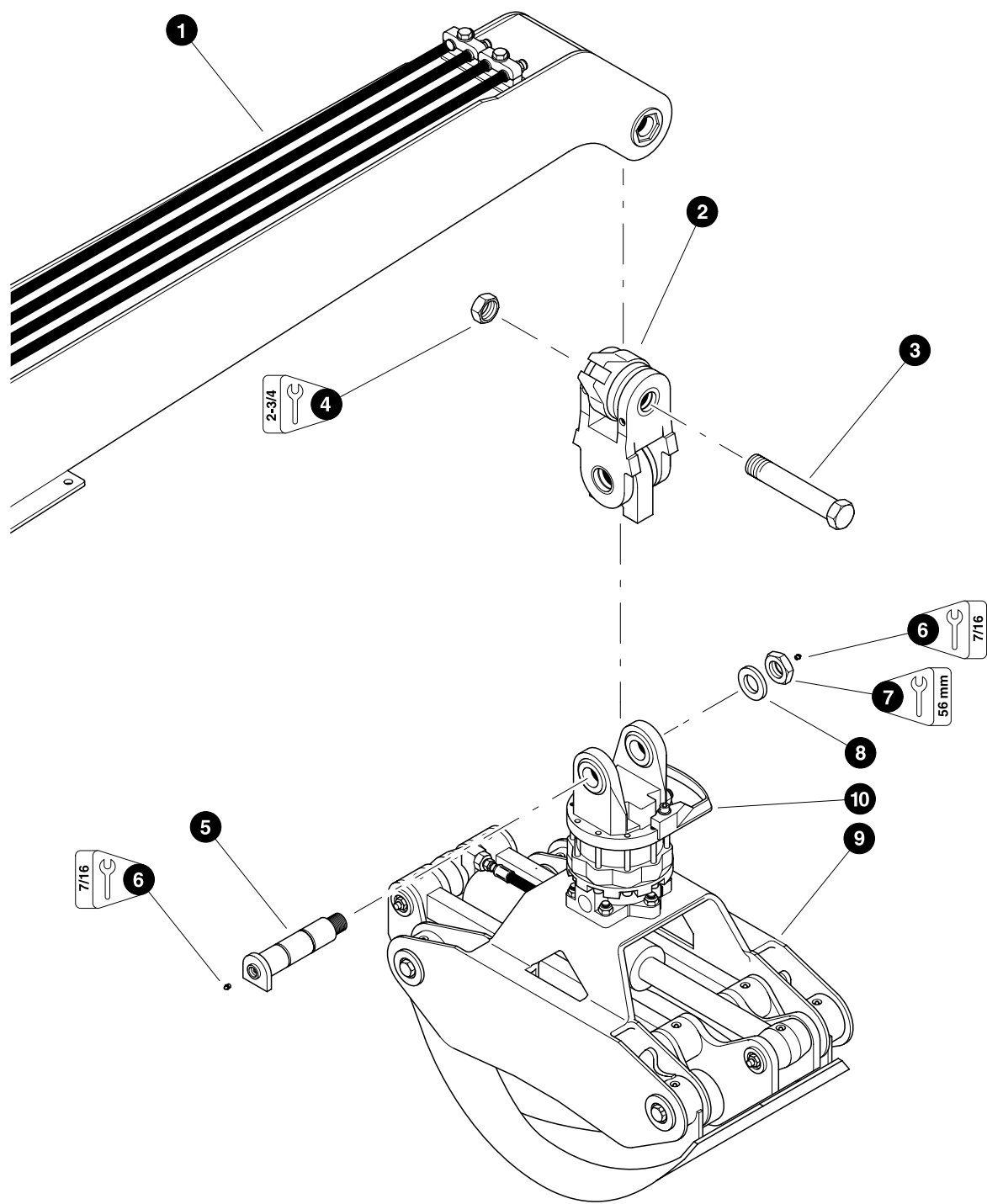


HULTDINS SUPERGRIP 360S GRAPPLE INSTALLATION

(With Standard TIMBCO Dangle Block)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2
2	19123	1	☐	DANGLE BLOCK ASSEMBLY	
	80000	1		BLOCK	
3	10704	1		FITTING, grease - 1/8" pipe thread	
4	19118	2		BUSHING - 45mm x 1-1/2"	
5	19117	2		BUSHING - 1-3/4" x 1-1/2"	
6	19716	1		PIN - 1-3/4" x 10-3/4"	
7	18402	1		NUT, nylock - 1-3/4"	
8	19789	1		PIN, grapple mount (used with GV15 & GV17 rotators)	
	20204	1		PIN, grapple mount (used with GV11 rotators)	
9	10704	2		FITTING, grease - 1/8" pipe thread	
10	20205	1		NUT, grapple mount pin	
11	20206	1		WASHER, grapple mount pin	
12	REF.	1	☐	GRAPPLE - Hultdins 360S	Blue F
13	REF.	1		ROTATOR - Hultdins GV17US	Blue F

- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.

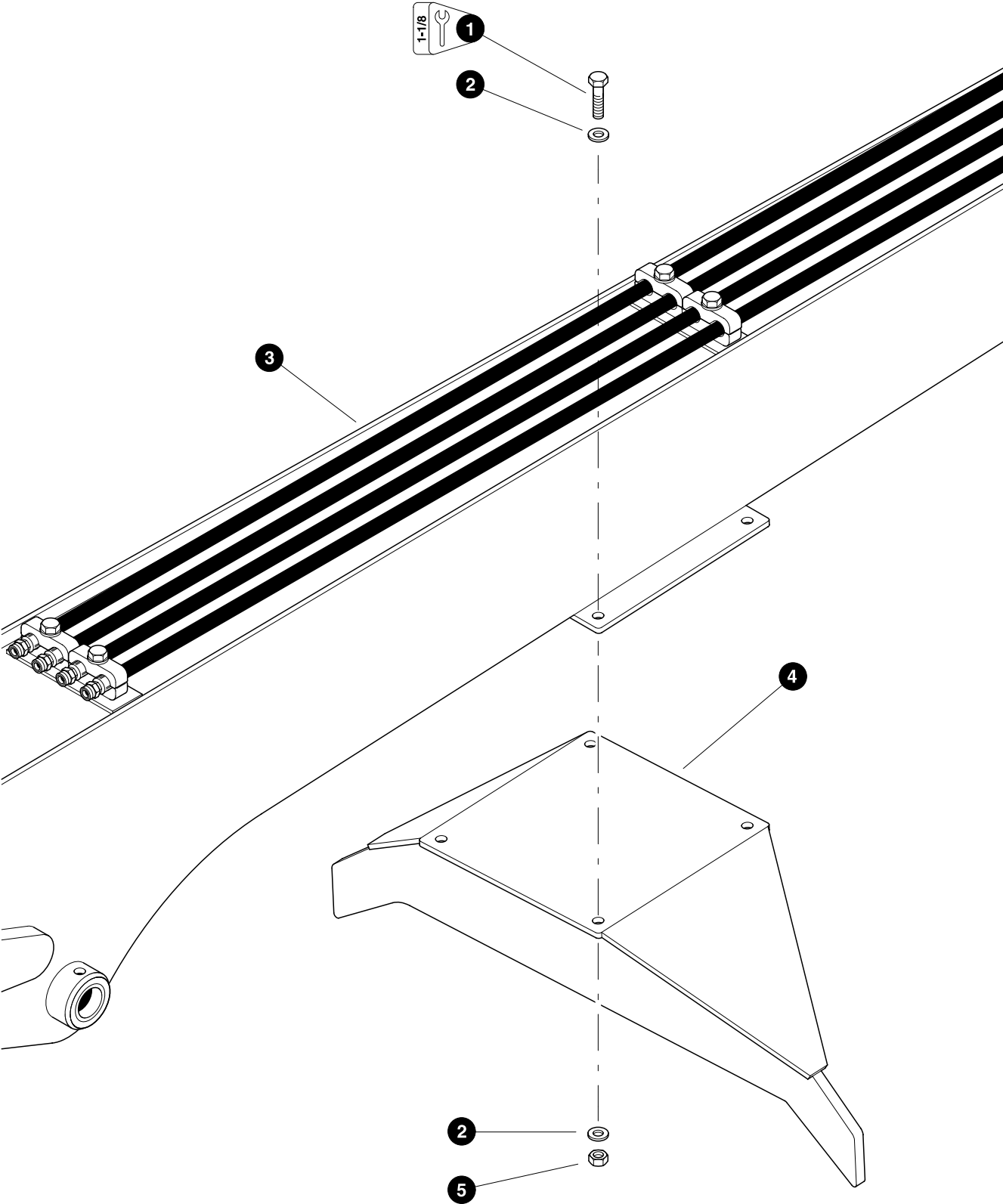


Parts 00530 04/06/98
12.50

HULTDINS SUPERGRIP 360S GRAPPLE INSTALLATION (With Optional QUADCO Snubber)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2
2	19790	1	☐	SNUBBER	
3	19716	1		PIN - 1-3/4" x 10-3/4"	
4	18402	1		NUT, nylock - 1-3/4"	
5	19789	1	☐	PIN, grapple mount	
6	10704	2		FITTING, grease - 1/8" pipe thread	
7	NSS	1		NUT, grapple mount pin	
8	NSS	1		WASHER, grapple mount pin	
9	REF.	1	☐	GRAPPLE - Hultdins 360S	Blue F
10	19788	1		ROTATOR - Hultdins GV17US	

- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.



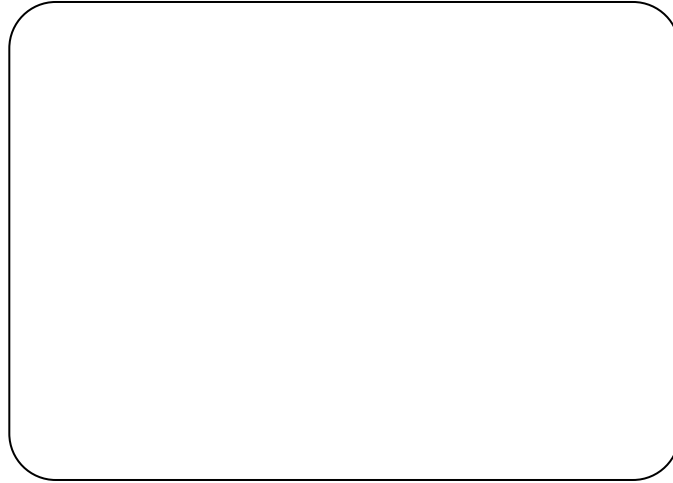
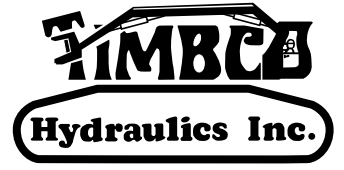
Parts 00531 04/06/98
18.75

OPTIONAL STICK BOOM MOUNTED HEEL (Welded Box Design)

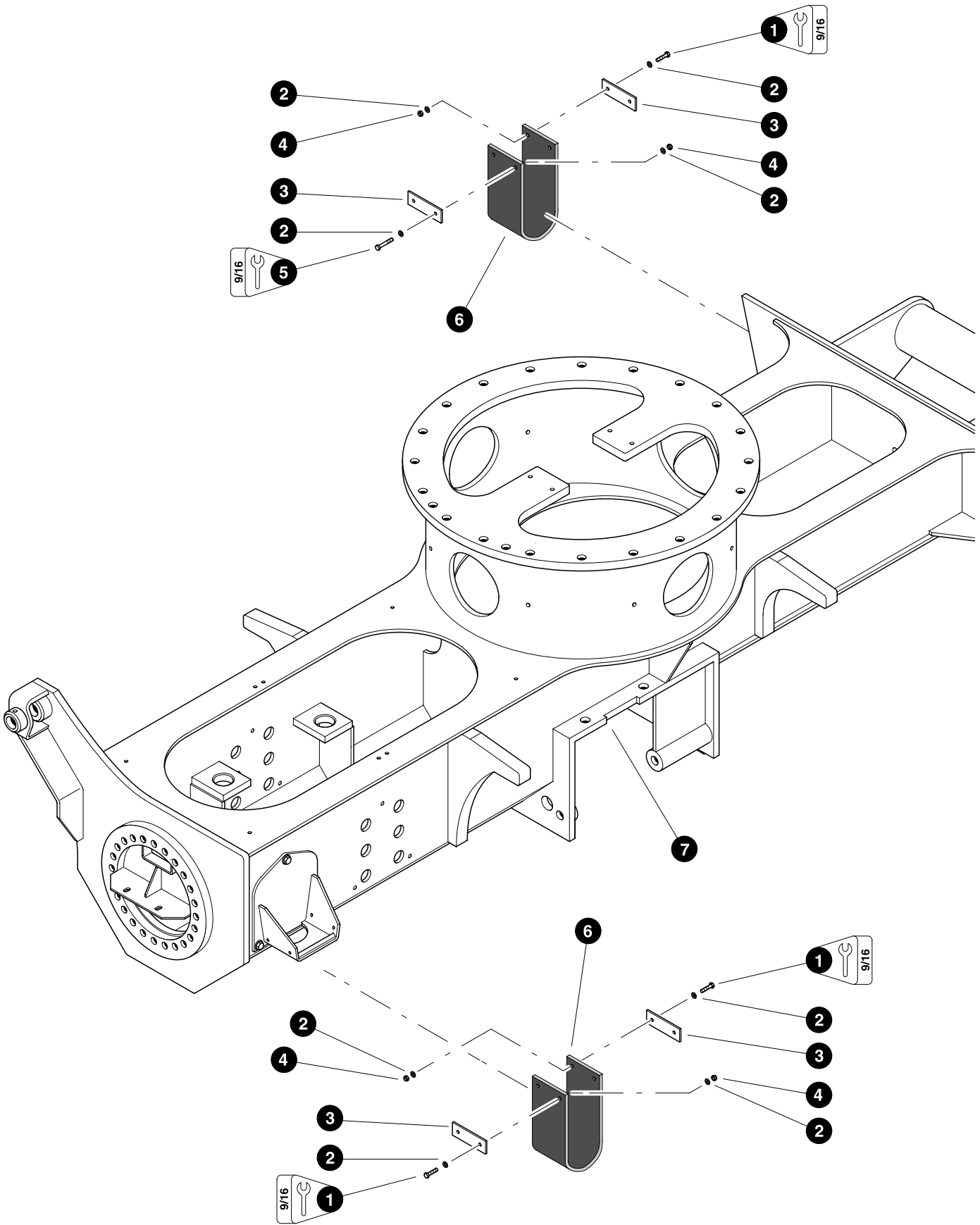
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	10736	4		BOLT - 1/2" x 2"	
2	15534	8		WASHER, SAE flat - 1/2"	
3	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2
4	20858	1		WELDMENT, stick boom heel	
5	10815	4		NUT, lock - 1/2"	

✓ See referenced page for component or assembly breakdown.

Section H.4



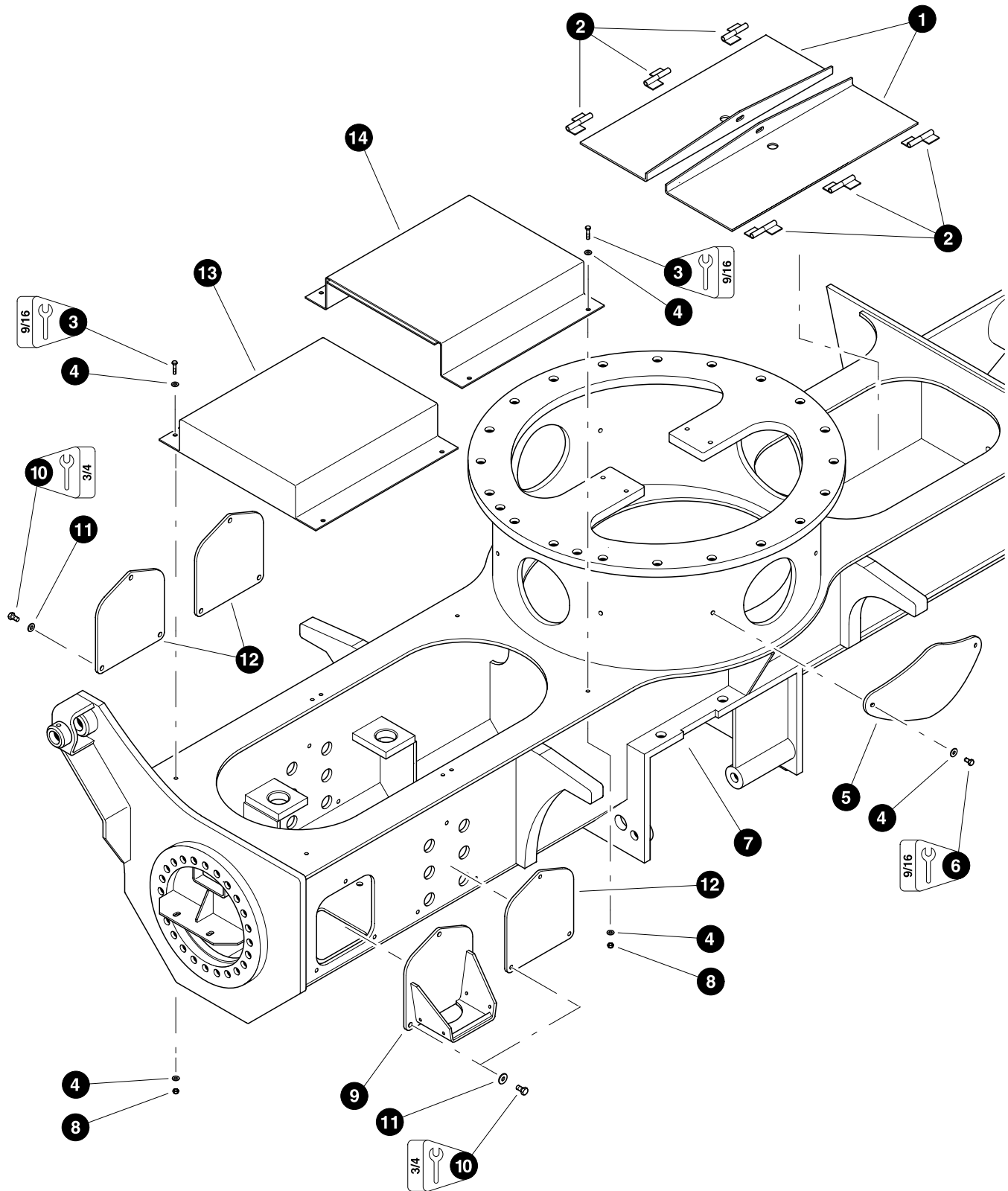
Structural Components - Front Frame



Parts 01264 07/30/99
9.375

FRONT FRAME COMPONENTS

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	20084	6	BOLT - 3/8" x 1-3/4"	
2	15528	16	WASHER, SAE flat - 3/8"	
3	20209	4	RETAINER, rubber step	
4	10813	8	NUT, lock - 3/8"	
5	10731	2	BOLT - 3/8" x 1-1/2"	
6	20210	2	STEP, rubber	
7	80300	1	FRONT FRAME WELDMENT	

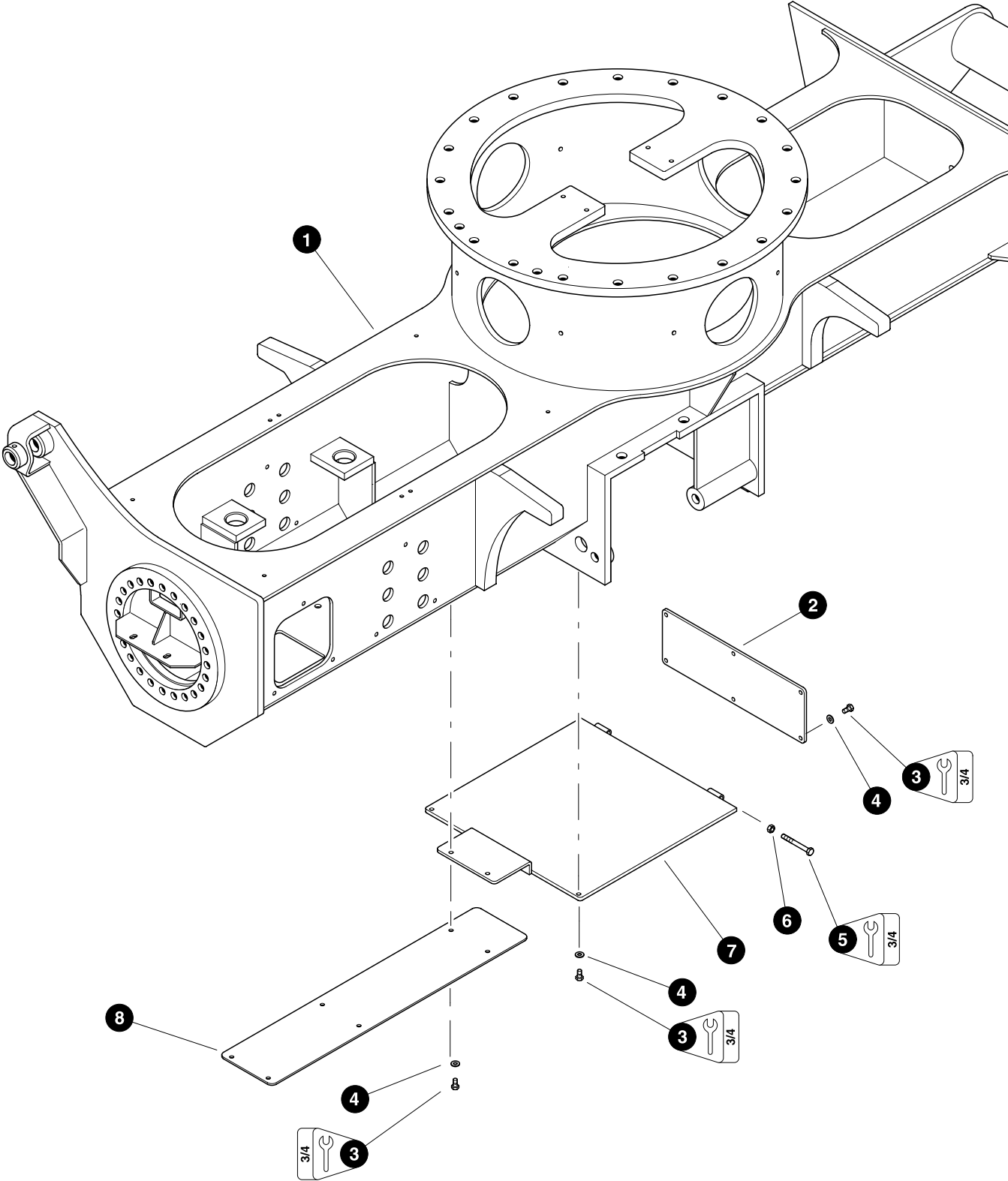


Parts 00573 06/01/98
9.375

FRONT FRAME ACCESS COVERS (Upper Frame Area)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	80277	2	COVER, access - tool box	
2	20197	6	HINGE, weld-on	
3	10731	8	BOLT - 3/8" x 1-1/2"	
4	15528	24	WASHER, SAE flat - 3/8"	
5	20217	4	COVER, access - turntable riser	
6	15542	8	BOLT - 3/8" x 3/4"	
7	REF.	1	✓ FRONT FRAME WELDMENT	H.4.2
8	15507	4	NUT, nylock - 3/8"	
9	20208	1	COVER, access - frame side (<i>With step</i>)	
10	10783	12	BOLT - 1/2" x 1"	
11	15534	26	WASHER, SAE flat - 1/2"	
12	80317	3	COVER, access - frame side (<i>Without step</i>)	
13	20213	1	COVER, access - rear drive motor	
14	20212	1	COVER, access - front drive motor	

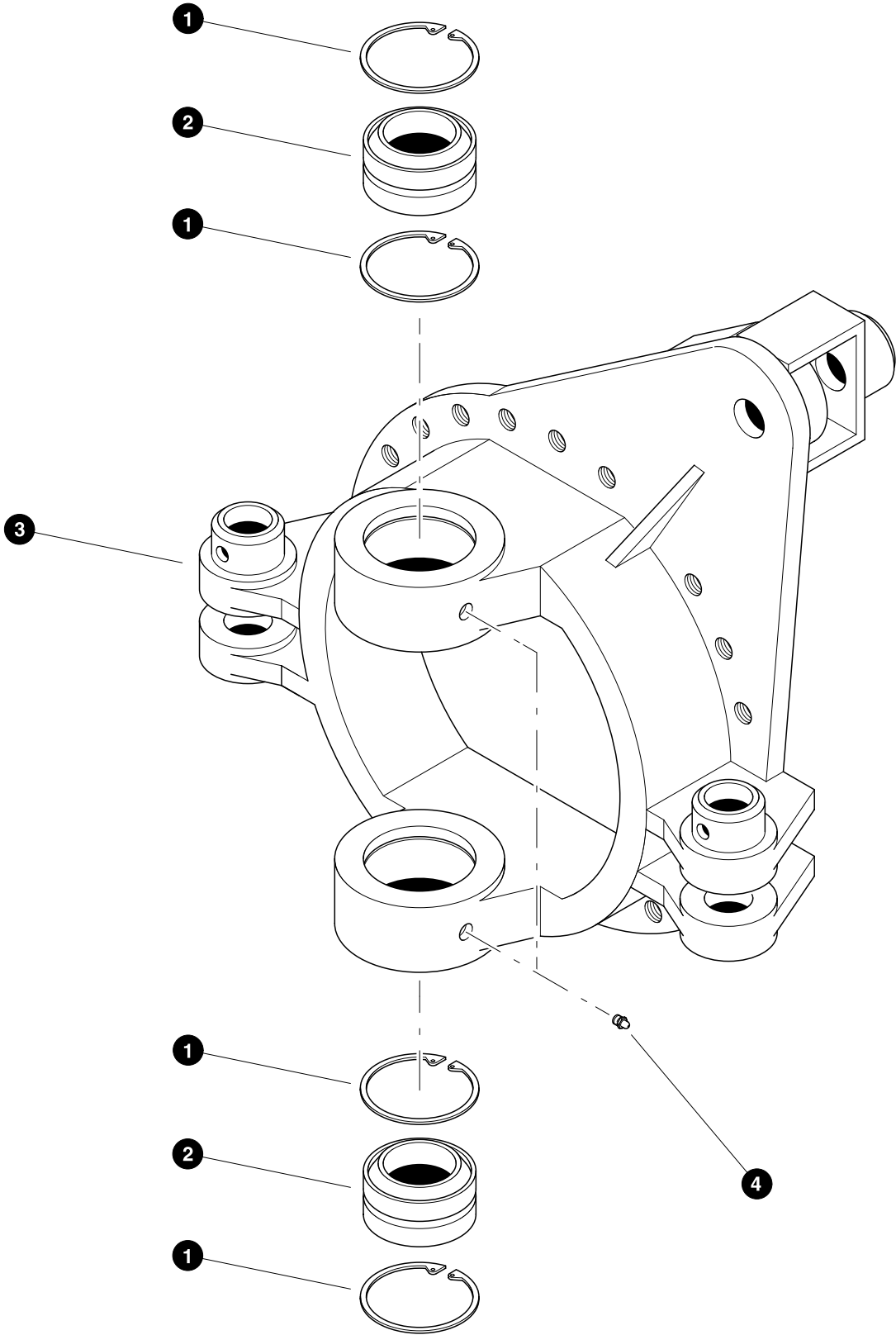
✓ See referenced page for component or assembly breakdown.



FRONT FRAME ACCESS COVERS (Lower Frame Area)

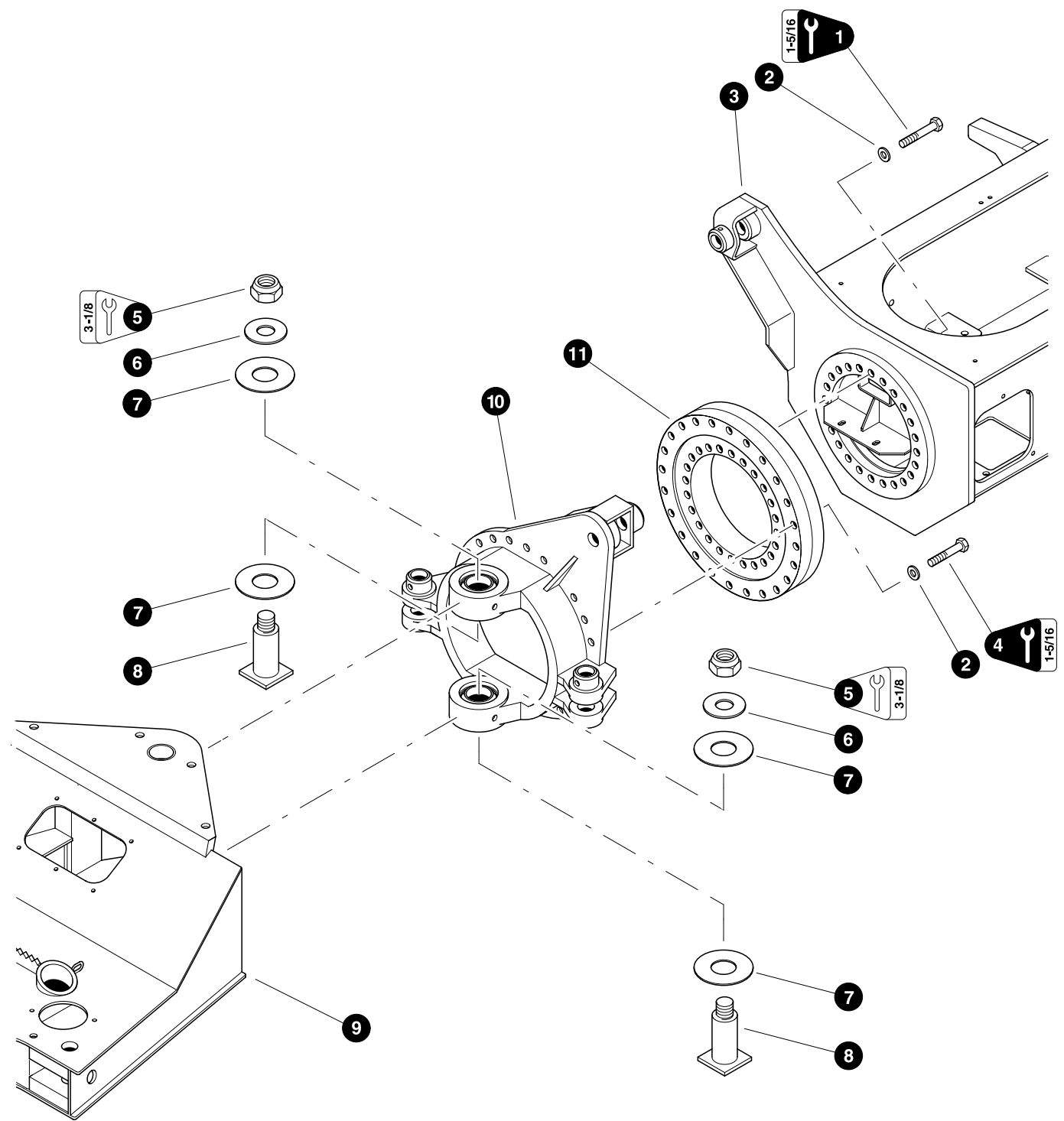
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FRONT FRAME WELDMENT	H.4.2
2	80316	1		COVER, access - axle box	
3	10783	14		BOLT - 1/2" x 1"	
4	15534	14		WASHER, SAE flat - 1/2"	
5	10835	2		BOLT - 1/2" x 4-1/2"	
6	10815	2		NUT, lock - 1/2"	
7	19817	1		COVER, access - front frame axle	
8	80329	1		COVER, access - belly pan	

✓ See referenced page for component or assembly breakdown.



FRAME ARTICULATION CASTING

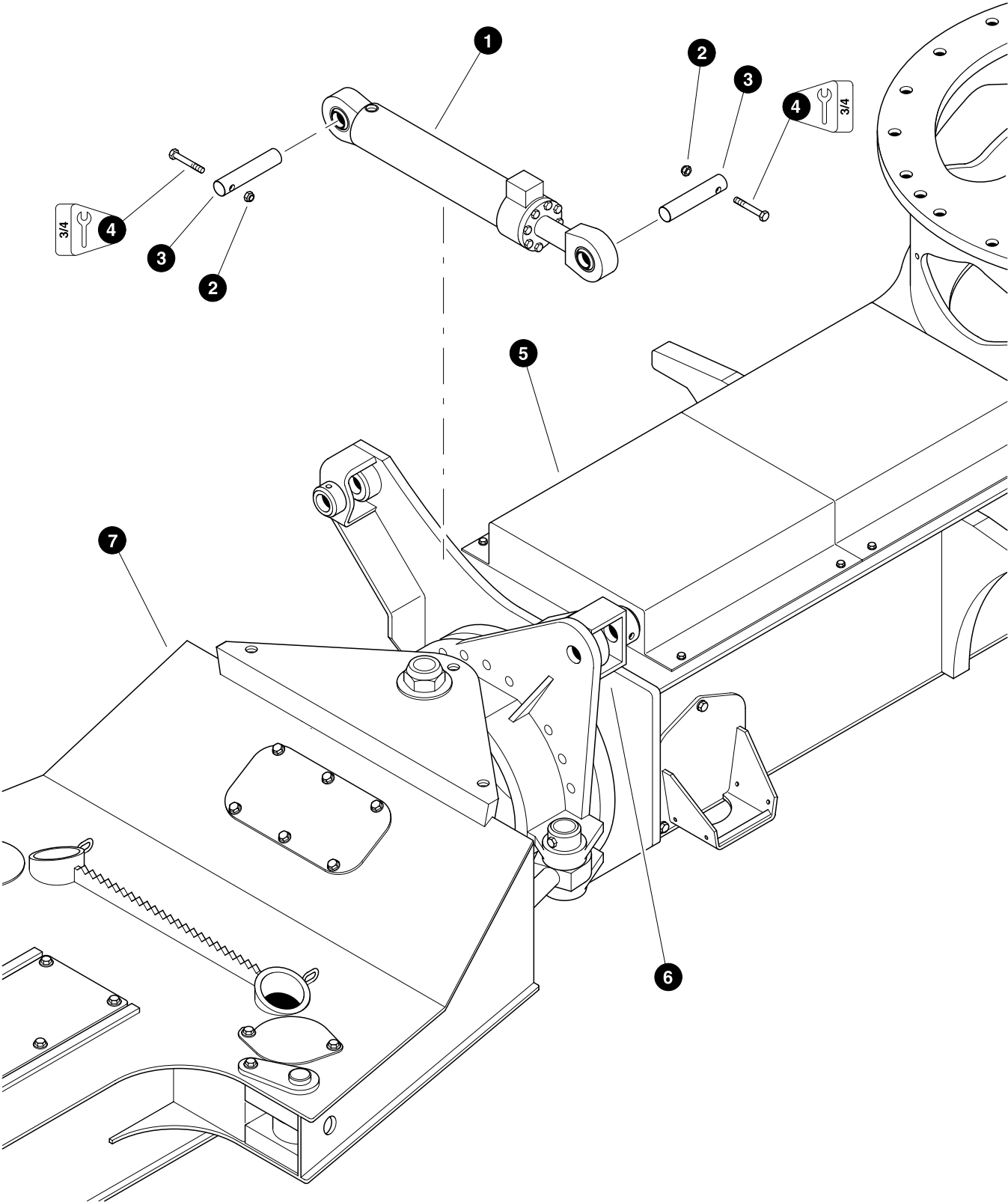
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	17833	4	RING, snap - 3" spherical bushing	
2	12127	2	BUSHING, spherical - 3"	
3	19316	1	CASTING, frame articulation	
4	10704	2	FITTING, grease - 1/8" pipe thread	



FRAME ARTICULATION COMPONENTS

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19072	24		BOLT - 7/8" x 5-1/2"	
2	10718	24		WASHER, SAE flat - 7/8"	
3	REF.	1	✓	FRONT FRAME WELDMENT	H.4.2
4	19072	24		BOLT - 7/8" x 5-1/2"	
5	10728	2		NUT, nylock - 2"	
6	18709	2		WASHER, articulation pin	
7	19486	AR		WASHER, thrust - thin (<i>Brass</i>)	
	19487	AR		WASHER, thrust - thick (<i>Brass</i>)	
8	19330	2		PIN, articulation - 3" x 8-5/8"	
9	REF.	1	✓	REAR FRAME WELDMENT	H.5.2
10	REF.	1	✓	FRAME ARTICULATION CASTING	H.4.8
11	18834	1		BEARING, articulation	

✓ See referenced page for component or assembly breakdown.



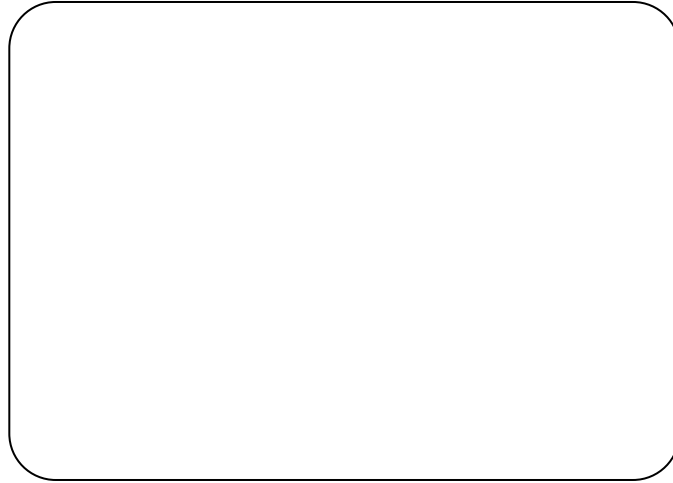
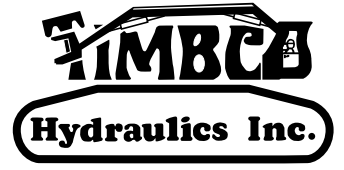
Parts 00499 03/15/98
12.50

FRAME LOCK CYLINDER INSTALLATION

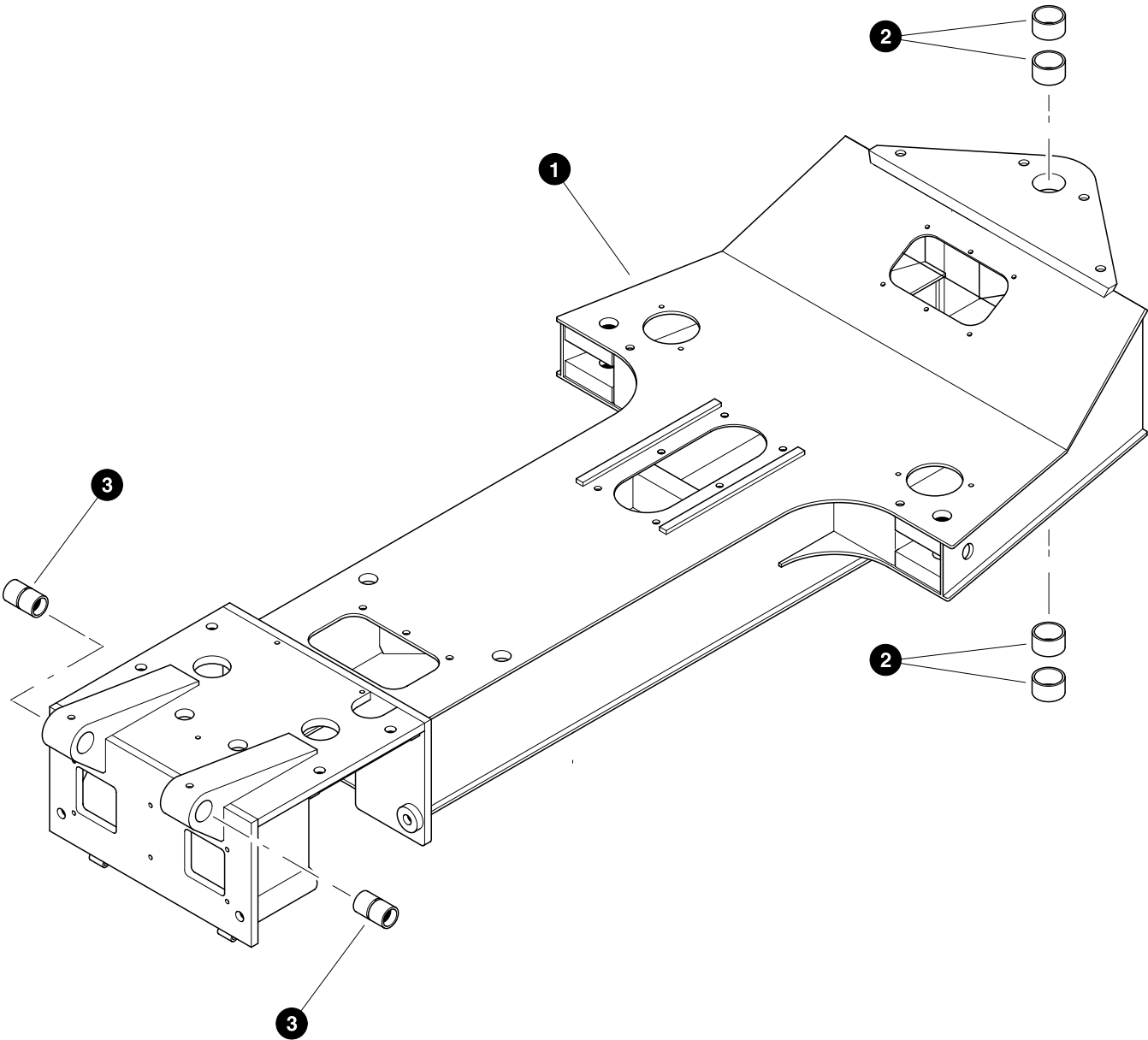
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FRAME LOCK CYLINDER	E.2.8
2	15533	2		NUT, nylock - 1/2"	
3	18897	2		PIN, frame lock cylinder mounting	
4	15553	2		BOLT - 1/2" x 3-1/2"	
5	REF	1	✓	FRONT FRAME WELDMENT	H.4.2
6	REF.	1	✓	FRAME ARTICULATION CASTING	H.4.8
7	REF.	1	✓	REAR FRAME WELDMENT	H.5.2

✓ See referenced page for component or assembly breakdown.

Section H.5



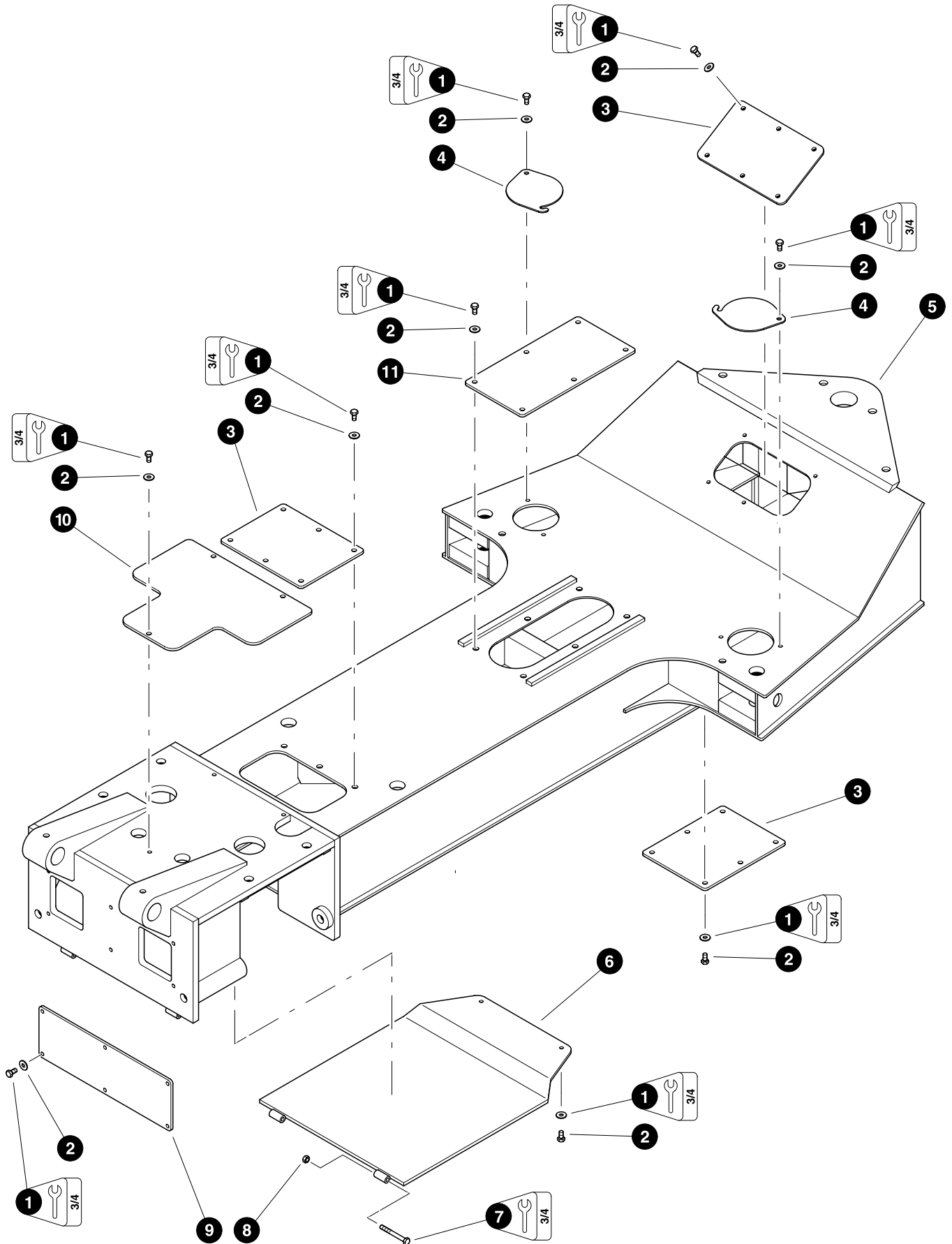
Structural Components - Rear Frame



REAR FRAME COMPONENTS

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	80240	1	☐	REAR FRAME WELDMENT	
2	19129	4		BUSHING - 3" x 1-1/2"	
3	12149	2		BUSHING - 2" x 4-1/4"	

☐ Kit or Assembly - includes all items indented underneath.

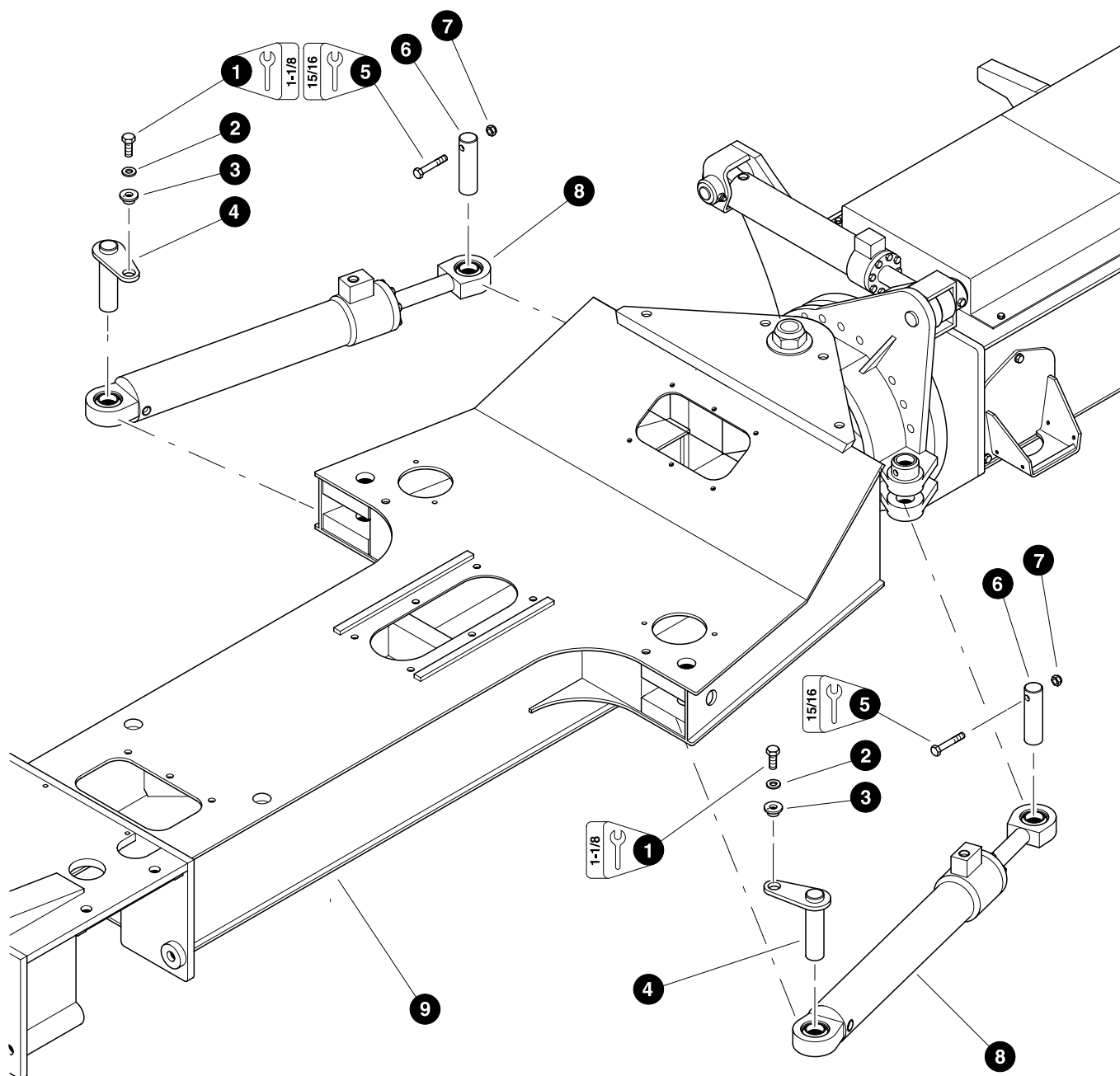


Parts 00501 07/30/99
9.375

REAR FRAME ACCESS COVERS

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	10783	39		BOLT - 1/2" x 1"	
2	15534	39		WASHER, SAE flat - 1/2"	
3	19395	3		COVER, access - steerbox / axle	
4	12150	2		COVER, access - steer cylinder	
5	REF.	1	✓	REAR FRAME WELDMENT	H.5.2
6	19781	1		COVER, access - rear frame axle (<i>Lower</i>)	
7	10835	2		BOLT - 1/2" x 4-1/2"	
8	10815	2		NUT, lock - 1/2"	
9	80316	1		COVER, access - axle box end	
10	80331	1		COVER, access - rear frame axle (<i>Upper</i>)	
11	19394	1		COVER, access - driveshaft	

✓ See referenced page for component or assembly breakdown.

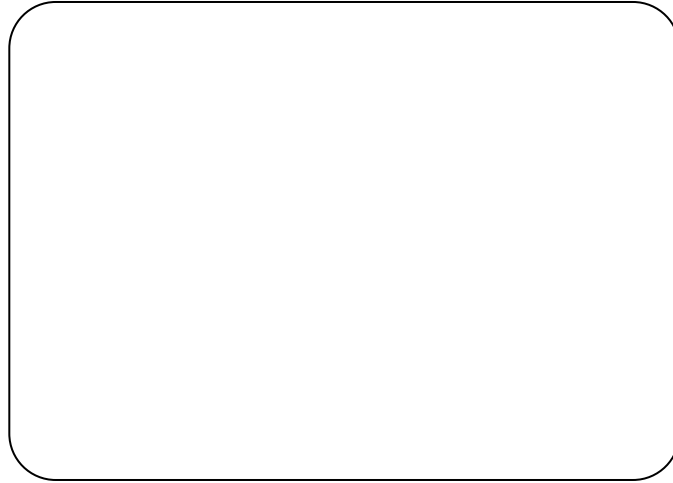
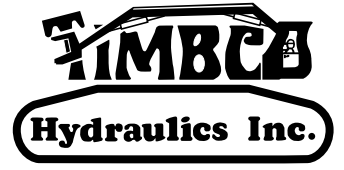


STEER CYLINDER INSTALLATION

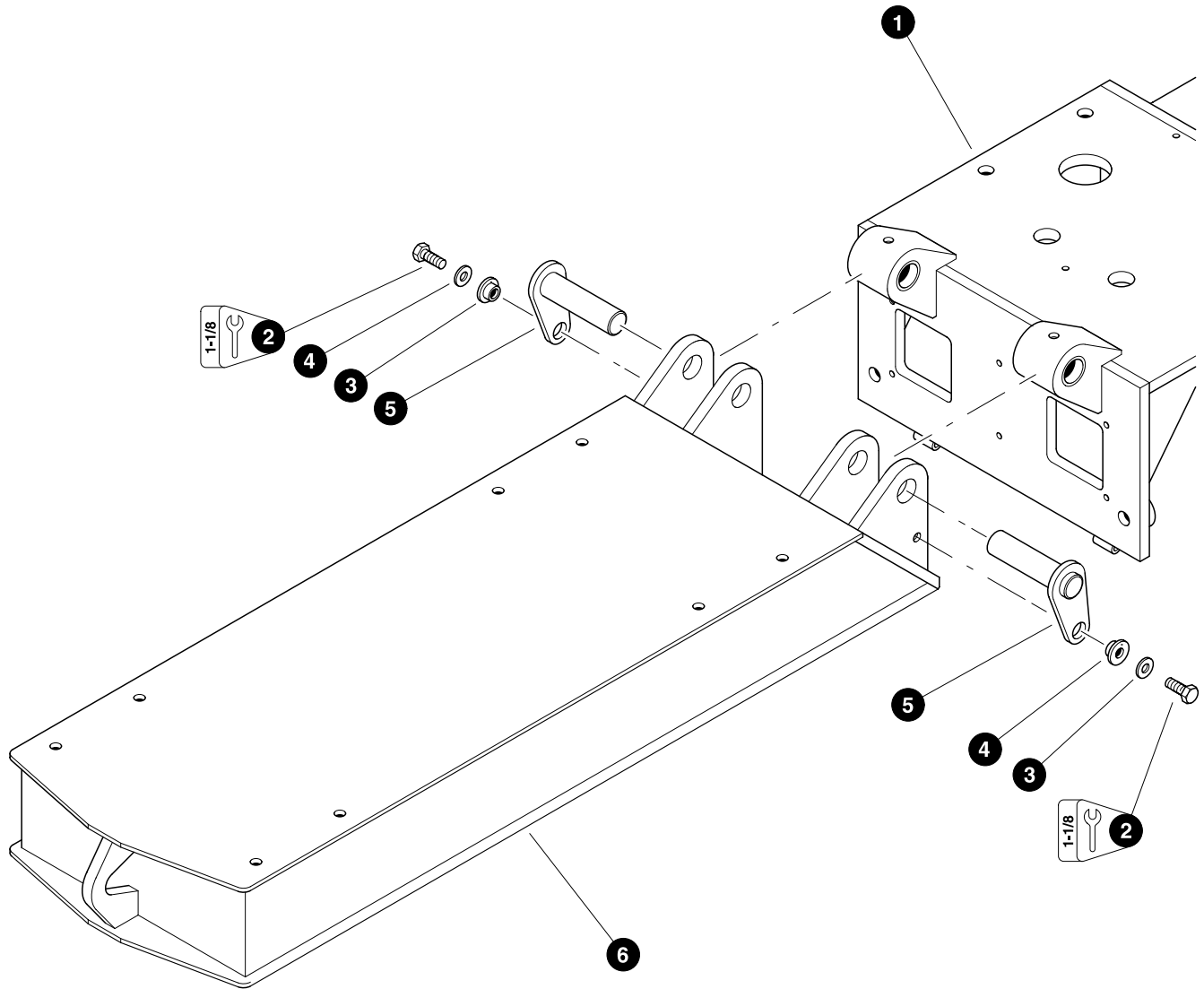
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15549	2		BOLT - 3/4" x 2"	
2	15550	2		WASHER, SAE flat - 3/4"	
3	18570	2		WASHER, pin retaining	
4	19210	2		PIN, steer cylinder mounting - base	
5	10719	2		BOLT - 5/8" x 4"	
6	19448	2		PIN, steer cylinder mounting - rod	
7	15563	2		NUT, nylock - 5/8"	
8	REF.	2	✓	STEER CYLINDER	E.2.6
9	REF.	1		REAR FRAME WELDMENT	H.5.2

✓ See referenced page for component or assembly breakdown.

Section H.6



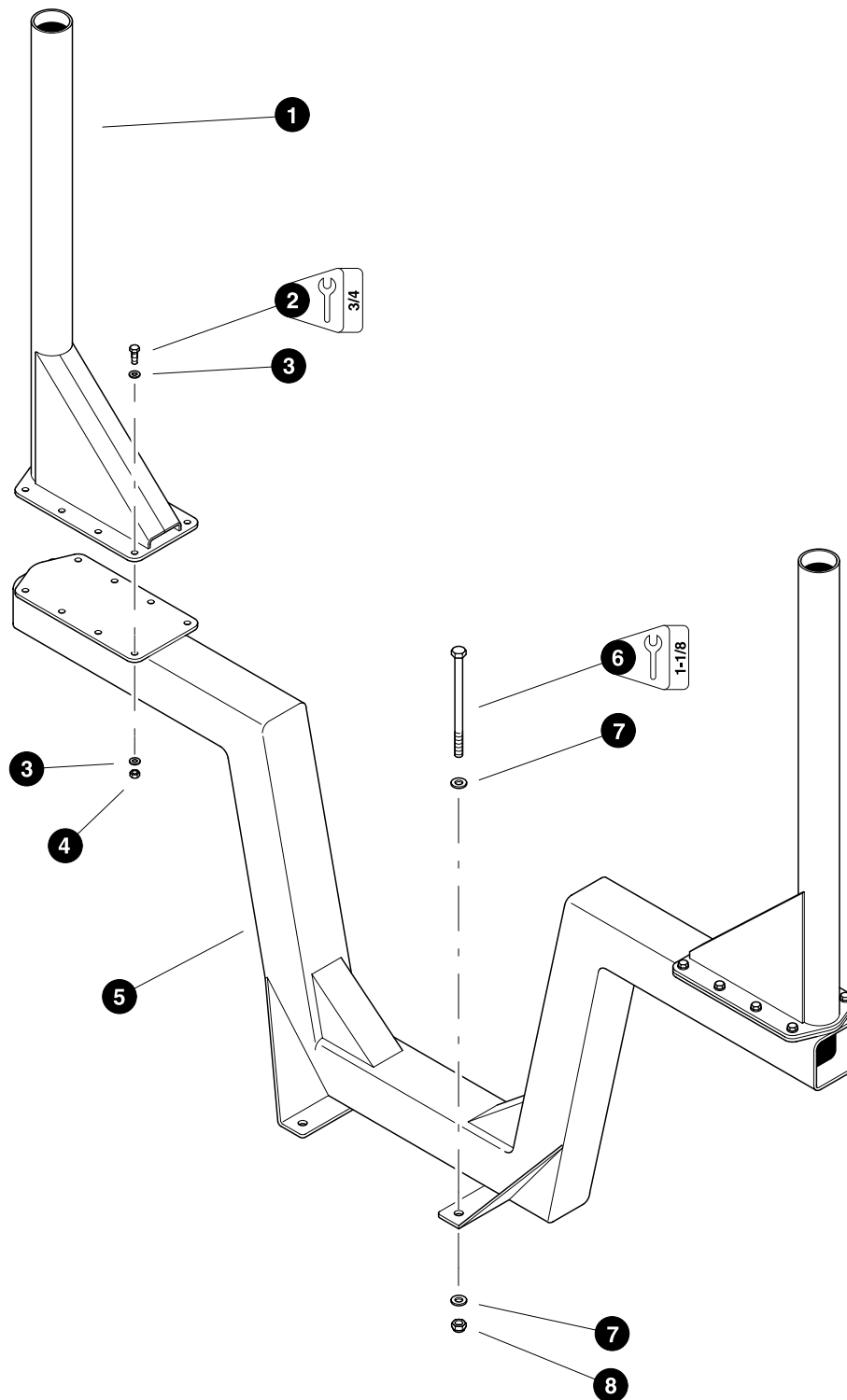
Structural Components - Floating Bunk, Log Stakes & Log Rack



FLOATING BUNK INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	REAR FRAME WELDMENT	H.5.2
2	15549	2		BOLT - 3/4" x 2"	
3	15550	2		WASHER, SAE flat - 3/4"	
4	18570	2		WASHER, pin retaining	
5	19210	2		PIN, floating bunk - 2"	
6	80193	1		WELDMENT, floating bunk	

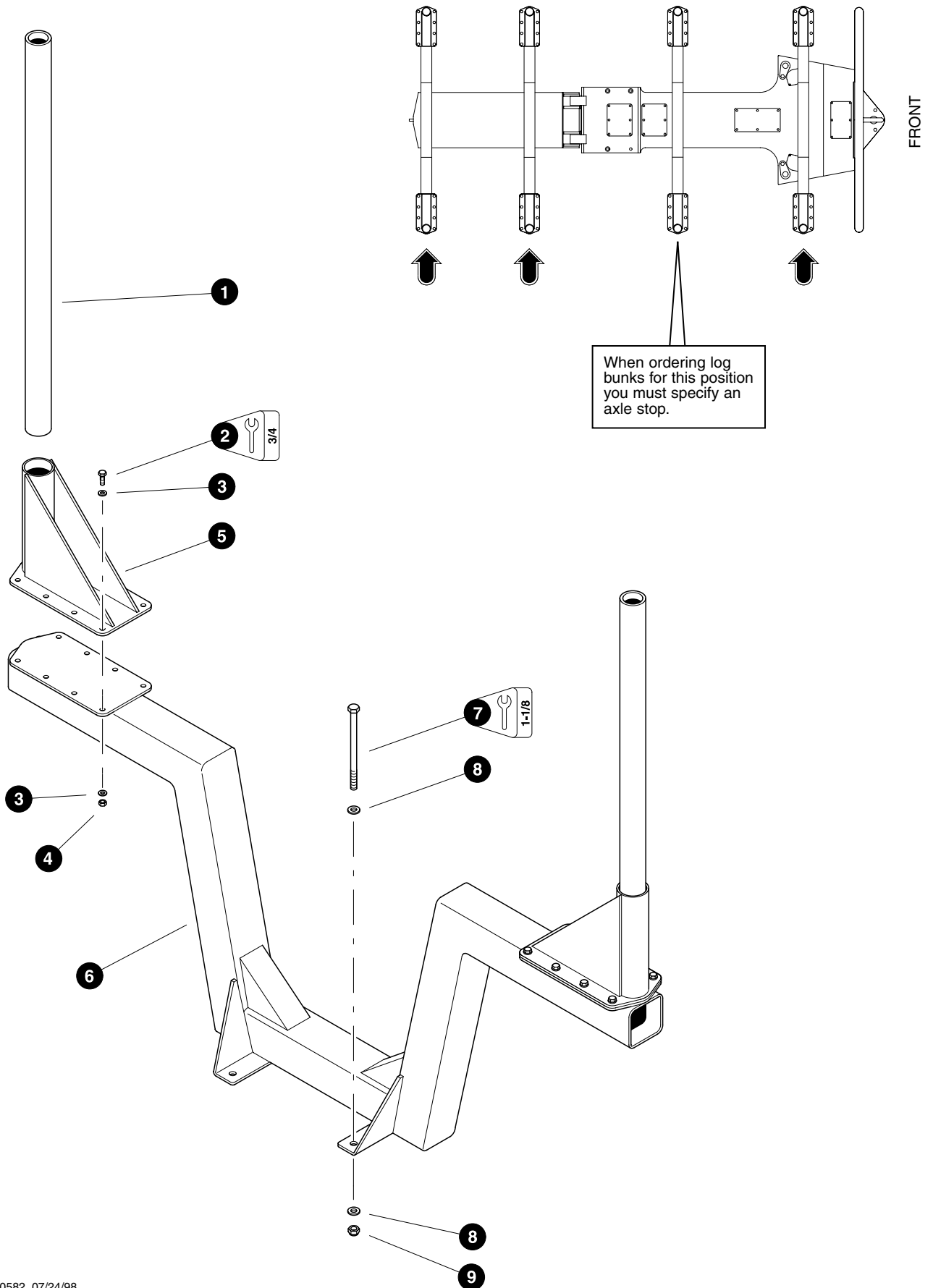
✓ See referenced page for component or assembly breakdown.



Parts 00558 04/15/98
9.375

LOG BUNK & STAKE INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	80322	1	WELDMENT, log stake	
2	10736	4	BOLT - 1/2" x 2"	
3	15534	8	WASHER, SAE flat - 1/2"	
4	10815	4	NUT, lock - 1/2"	
5	20859	1	WELDMENT, log bunk	
6	20905	8	BOLT - 3/4" x 12" <i>(Used when mounting log bunk to the floating bunk)</i>	
	20906	8	BOLT - 3/4" x 16" <i>(Used when mounting log bunk to the rear frame)</i>	
7	15550	32	WASHER, SAE flat - 3/4"	
8	10817	16	NUT, lock - 3/4"	



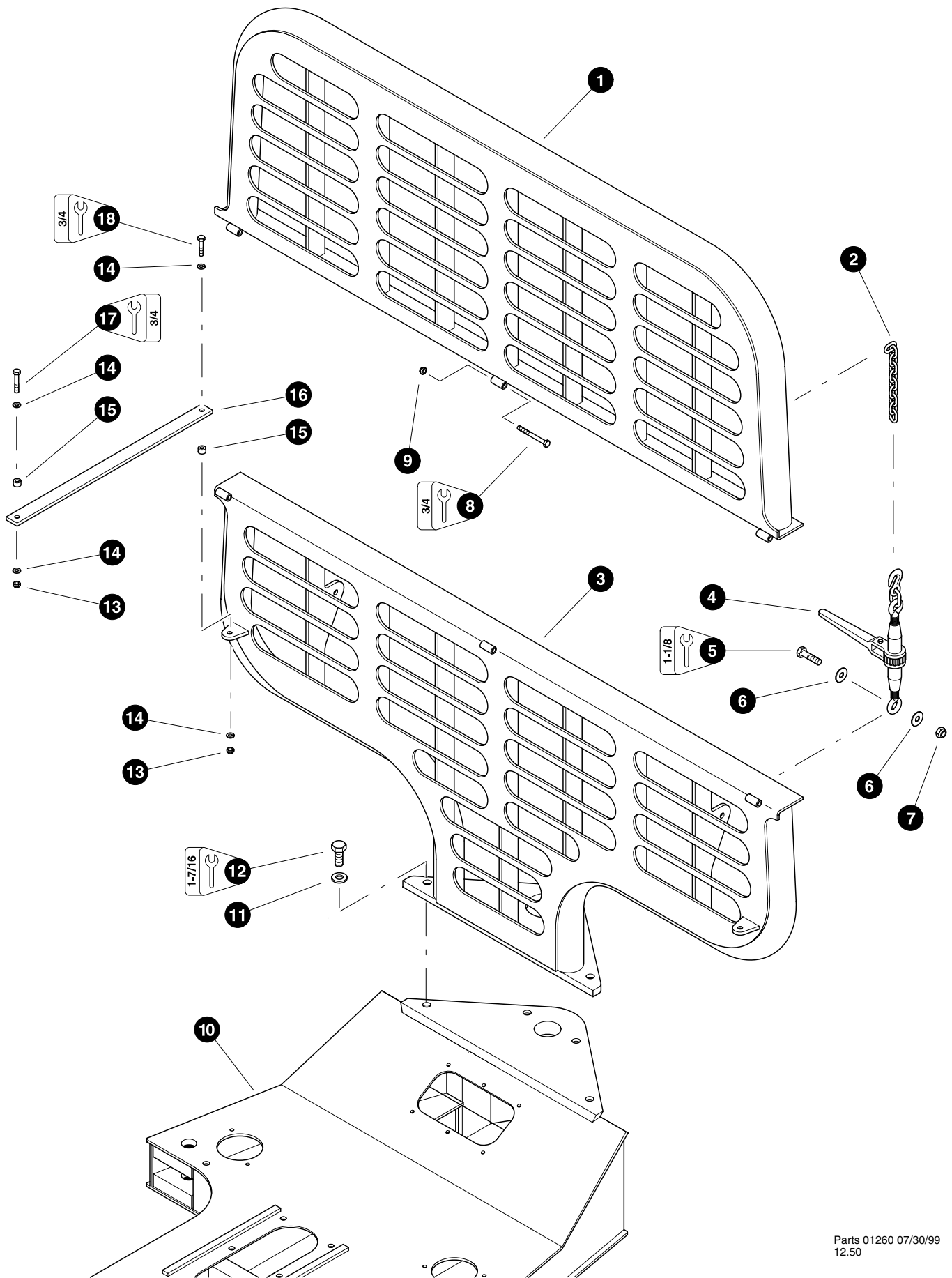
Parts 00582 07/24/98
9.375

LOG BUNK & STAKE INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	21013	6	TUBE, log stake	
2	10736	12	BOLT - 1/2" x 2"	
3	15534	24	WASHER, SAE flat - 1/2"	
4	10815	12	NUT, lock - 1/2"	
5	80398	6	WELDMENT, log stake pocket	
6	20859	4	WELDMENT, log bunk - 33" <i>(Used on machines with standard 28L-26 wheels) (See Note Below)</i>	
	21667	4	WELDMENT, log bunk - 28" <i>(Used on machines with optional 700/50x26.5 & 750/50x26.5 wheels) (See Note Below)</i>	
7	20905	8	BOLT - 3/4" x 12" <i>(Used when mounting log bunk to the floating bunk)</i>	
	20906	8	BOLT - 3/4" x 16" <i>(Used when mounting log bunk to the rear frame)</i>	
8	15550	32	WASHER, SAE flat - 3/4"	
9	10817	16	NUT, lock - 3/4"	

Note:

When ordering log bunk weldments, be sure to specify whether or not an axle stop is required. See illustration at left.



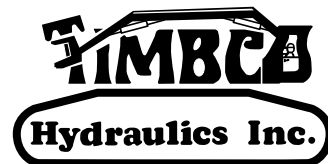
Parts 01260 07/30/99
12.50

LOG RACK INSTALLATION

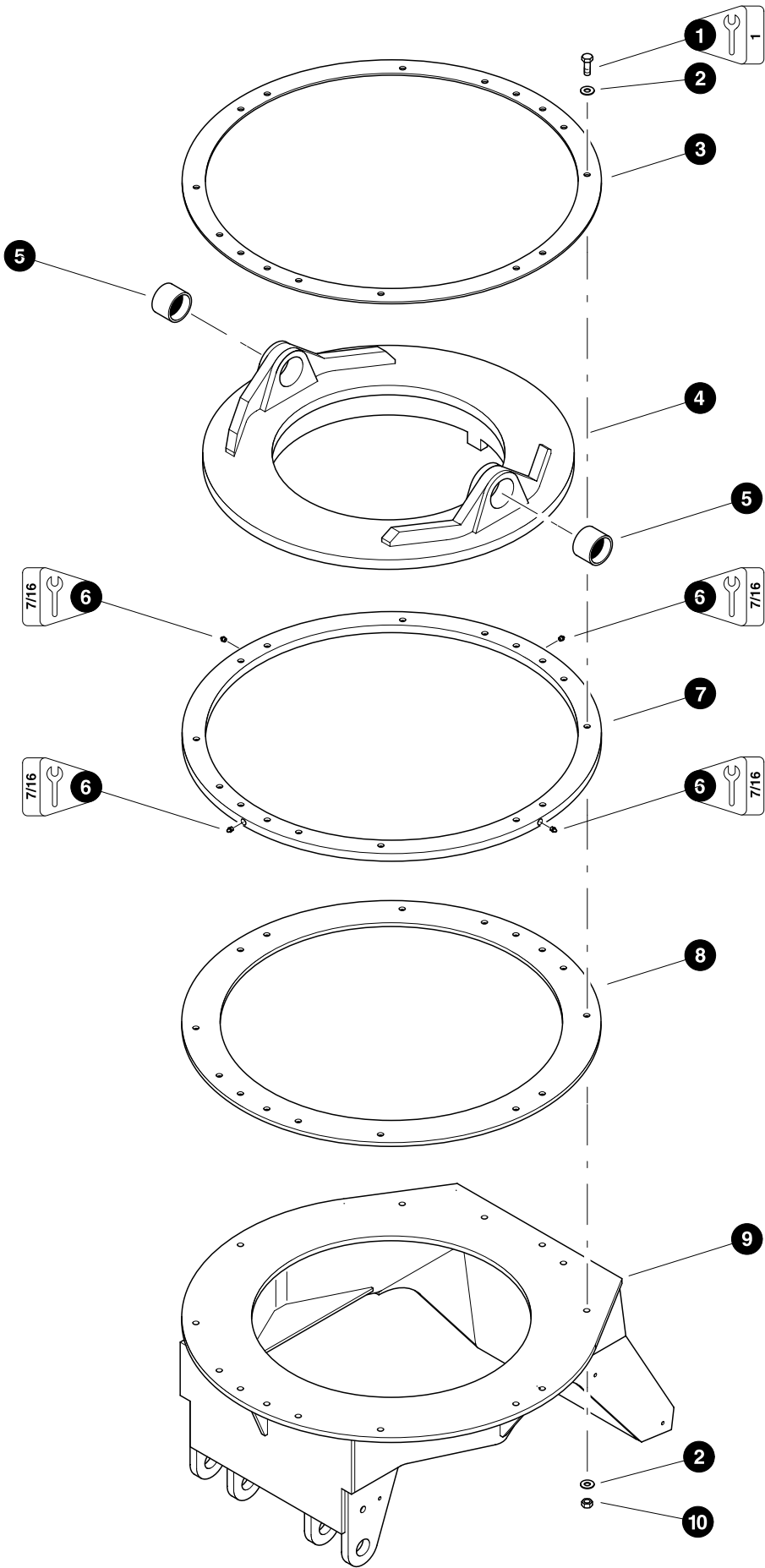
REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	80454	1	☐	LOG RACK ASSEMBLY	
1	80448	1		WELDMENT, log rack - upper	
2	22289	2		CHAIN - 3/8" (10 links)(Welded to upper log rack weldment)	
3	80447	1		WELDMENT, log rack - lower	
4	22290	2		BINDER, chain	
5	10840	2		BOLT - 3/4" x 3"	
6	10806	4		WASHER, flat - 3/4"	
7	10817	2		NUT, lock - 3/4"	
8	10705	3		BOLT - 1/2" x 5"	
9	10815	3		NUT, lock - 1/2"	
10	REF.	1	☒	REAR FRAME WELDMENT	H.5.2
11	15579	4		WASHER, SAE flat - 1"	
12	15552	4		BOLT - 1" x 2-1/2"	
13	10815	4		NUT, lock - 1/2"	
14	15534	8		WASHER, SAE flat - 1/2"	
15	19217	2		SPACER	
16	22291	2		BAR, stabilizer	
17	15565	2		BOLT - 1/2" x 2-1/2"	
18	10893	2		BOLT - 1/2" x 3"	

- ☐ Kit or Assembly - includes all items indented underneath.
- ☒ See referenced page for component or assembly breakdown.

Section H.7



Structural Components - Optional Clam Bunk

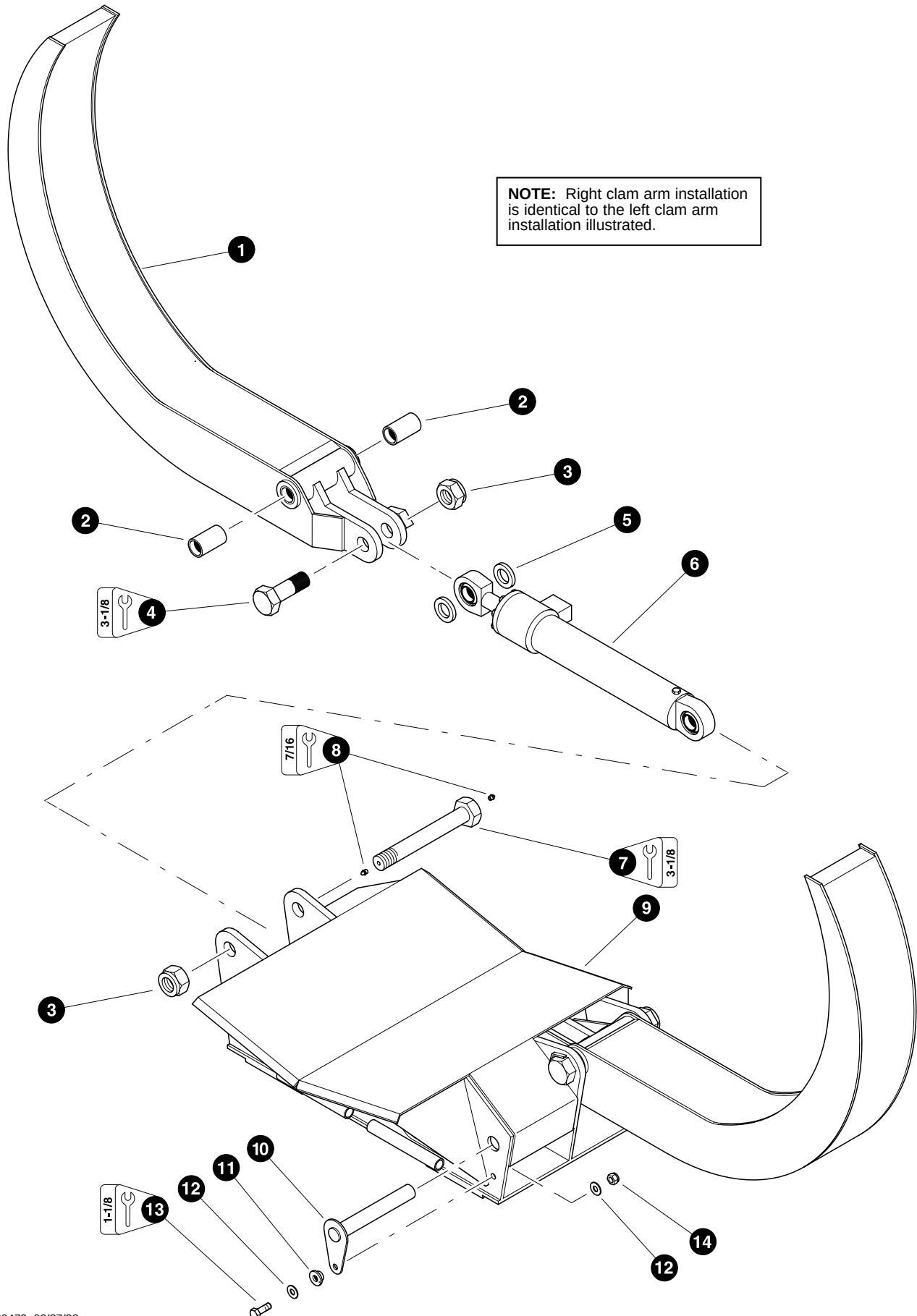


Parts 00384 12/23/97
9.375

CLAM BUNK LOWER BASE COMPONENTS

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	10773	16		BOLT - 5/8" x 3-1/2"	
2	10771	32		WASHER, SAE flat - 5/8"	
3	13368	1		RING, clam pivot hold-down	
4	13370	1	☐	WELDMENT, clam pivot	
5	12397	2		BUSHING - 3" x 2-1/2"	
6	10704	4		FITTING, grease	
7	13367	1		RING, clam pivot spacer	
8	13366	1		RING, clam pivot wear	
9	13350	1		WELDMENT, clam mounting base	
10	10816	16		NUT, lock - 5/8"	

☐ Kit or Assembly - includes all items indented underneath.



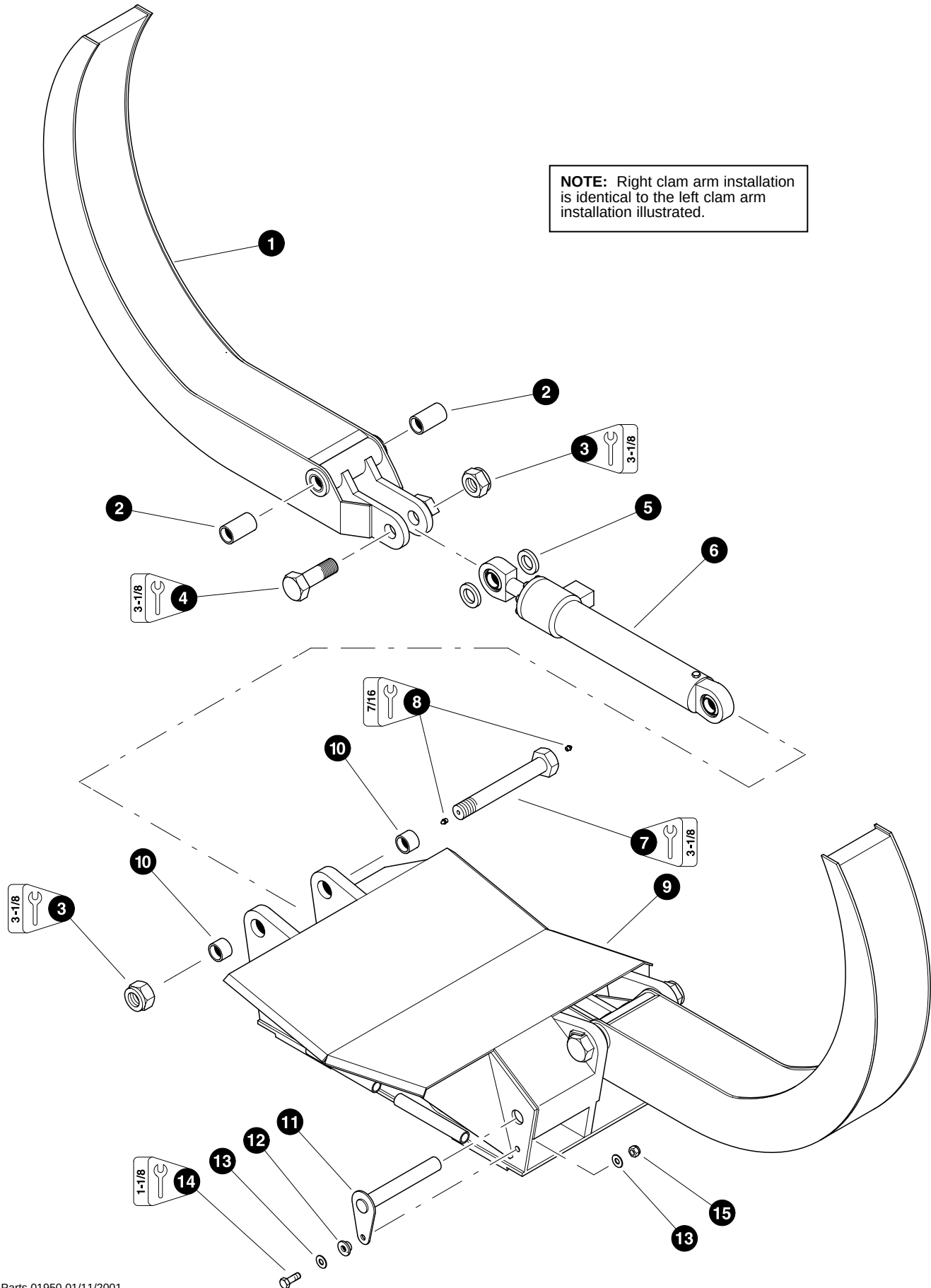
Parts 00479 02/27/98
9.375

CLAM BUNK ARM INSTALLATION (5" Diameter Clam Bunk Cylinders)

(Used on machines PDN# 035FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	13403	2	☐	WELDMENT, clam bunk arm - 5" dia. cylinder	
2	12149	2		BUSHING - 2" x 4-1/4"	
3	10728	4		NUT, nylock - 2"	
4	20251	2		PIN, clam cylinder rod - 2" x 7"	
5	20758	4		SPACER	
6	REF.	2	☒	CLAM BUNK CYLINDER	E.2.10
7	19546	2	☐	PIN, clam arm	
8	10704	4		FITTING, grease	
9	13330	1		WELDMENT, clam arm base	
10	19542	2		PIN, clam cylinder base	
11	18570	2		WASHER, pin retaining	
12	15550	2		WASHER, SAE flat - 3/4"	
13	10775	2		BOLT - 3/4" x 2-1/2"	
14	10817	2		NUT, lock - 3/4"	

- ☐ Kit or Assembly - includes all items indented underneath.
☒ See referenced page for component breakdown.



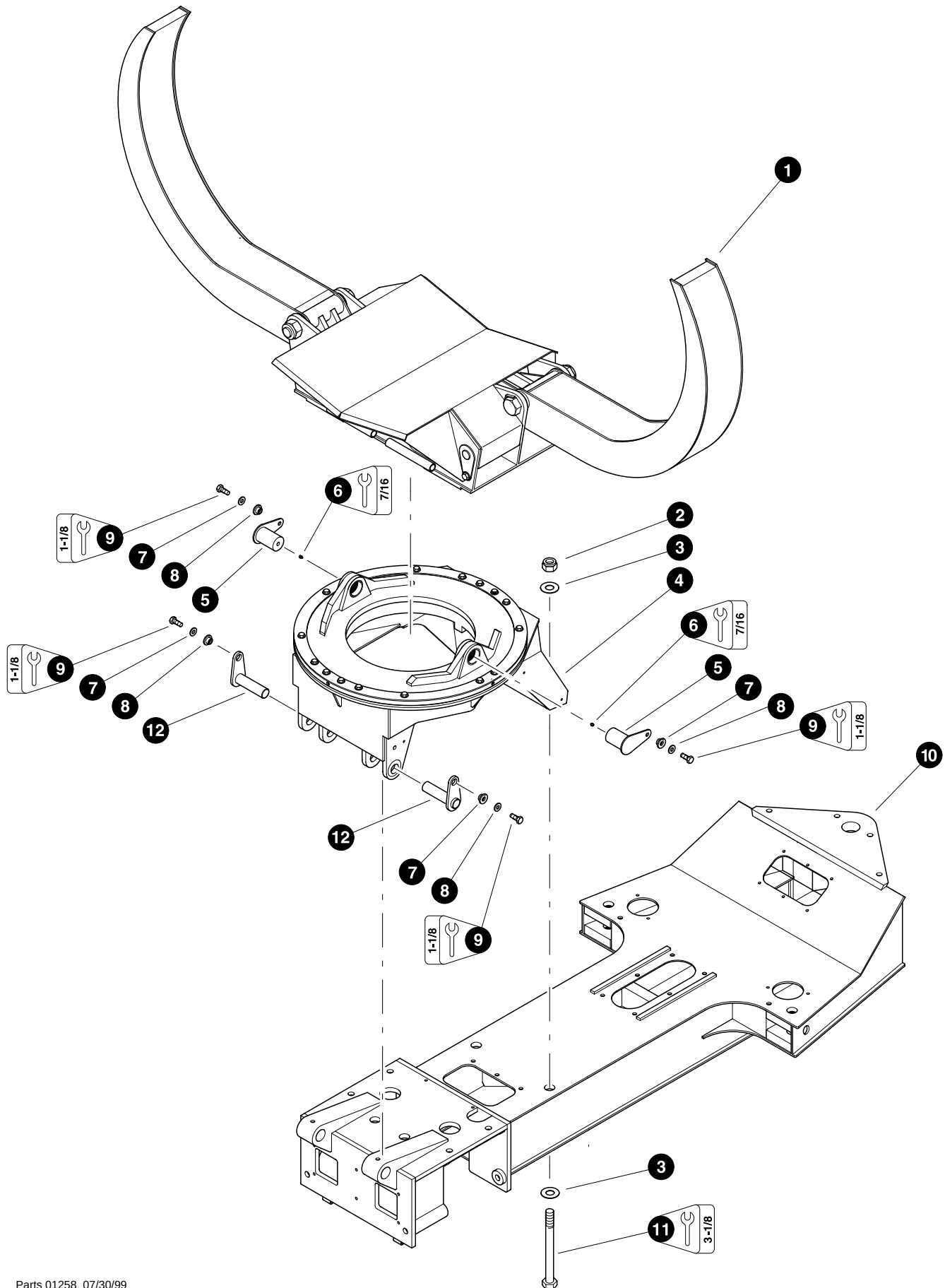
NOTE: Right clam arm installation is identical to the left clam arm installation illustrated.

Parts 01950 01/11/2001
9.375

CLAM BUNK ARM INSTALLATION*(Used on machines PDN# 036FWD and above)*

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	13440	2	☐	WELDMENT, clam bunk arm	
2	12149	2		BUSHING - 2" x 4-1/4"	
3	10728	4		NUT, nylock - 2"	
4	20251	2		PIN, clam cylinder rod - 2" x 7"	
5	20758	4		SPACER	
6	REF.	2	☒	CLAM BUNK CYLINDER	CB-2-2
7	23355	2	☐	PIN, clam arm - 2" x 17-1/2"	
8	10704	4		FITTING, grease	
9	13330	1	☐	WELDMENT, clam arm base	
10	24051	4		BUSHING - 2" x 1-3/4"	
11	19542	2		PIN, clam cylinder base	
12	18570	2		WASHER, pin retaining	
13	15550	2		WASHER, SAE flat - 3/4"	
14	10775	2		BOLT - 3/4" x 2-1/2"	
15	10817	2		NUT, lock - 3/4"	

- ☐ Kit or Assembly - includes all items indented underneath.
- ☒ See referenced page for component breakdown.

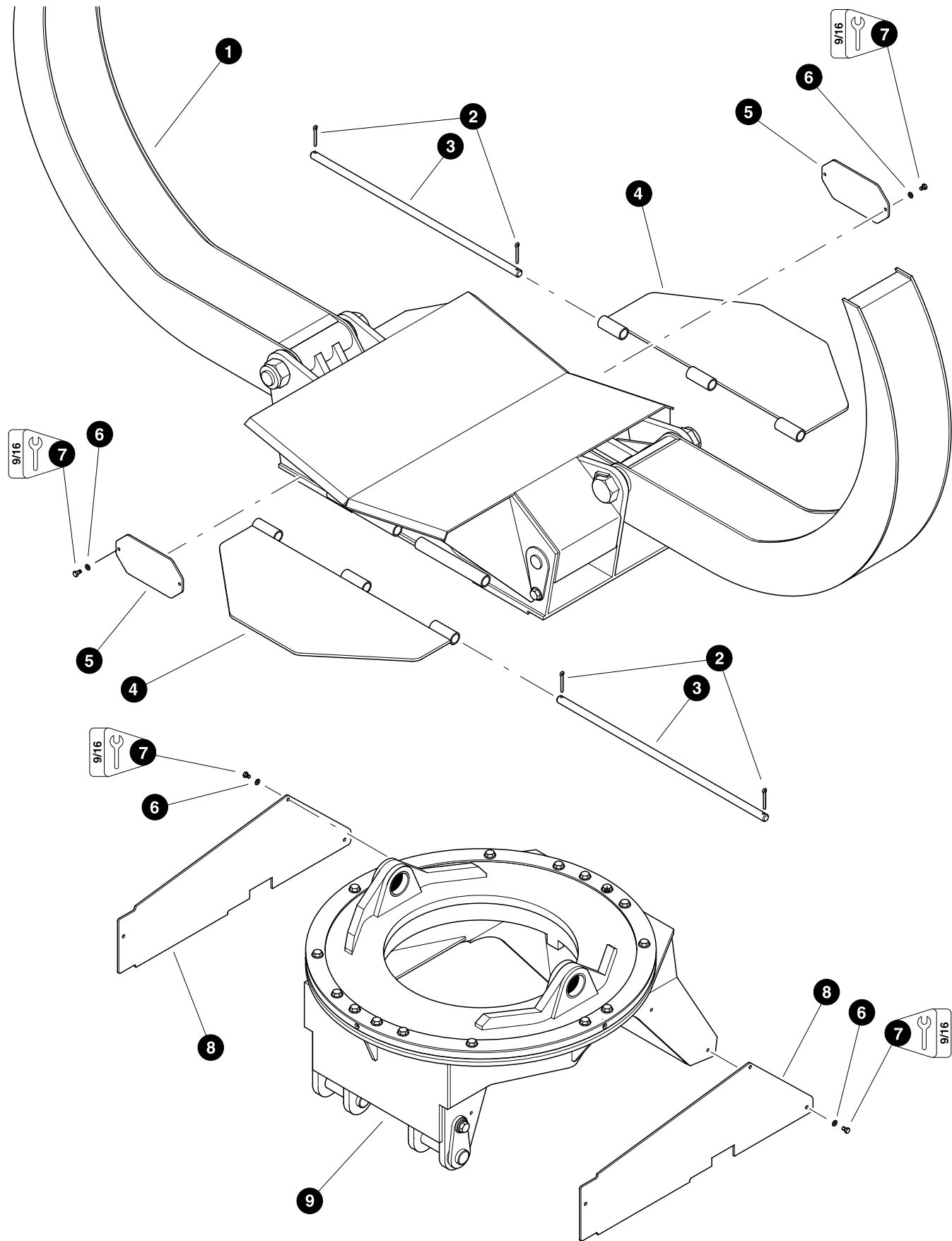


Parts 01258 07/30/99
6.25

CLAM BUNK UNIT INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	CLAM BUNK UPPER COMPONENTS	H.7.4
2	19614	2		NUT, lock - 1-1/2"	
3	19613	4		WASHER, flat - 1-1/2"	
4	REF.	1	✓	CLAM BUNK LOWER BASE COMPONENTS	H.7.2
5	19544	2	□	PIN, clam bunk pivot	
6	10704	1		FITTING, grease	
7	18570	4		WASHER, pin retaining	
8	15550	4		WASHER, SAE flat - 3/4"	
9	10549	4		BOLT - 3/4" x 2"	
10	REF.	1	✓	REAR FRAME WELDMENT	H.4.2
11	20415	2		BOLT - 1-1/2" x 19"	
12	19210	2		PIN, floating bunk - 2"	

- ✓ See referenced page for component breakdown.
 □ Kit or Assembly - includes all items indented underneath.



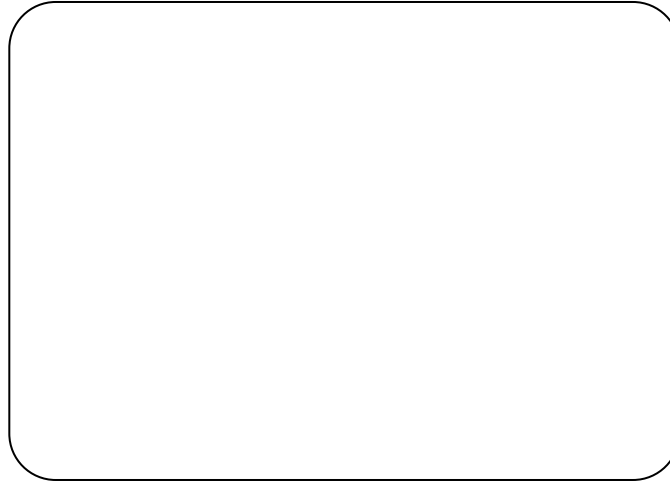
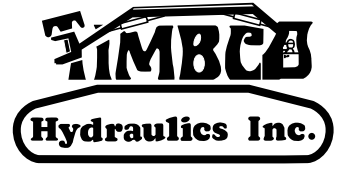
Parts 00387 12/23/97
9.375

CLAM BUNK ACCESS COVERS & GUARDS

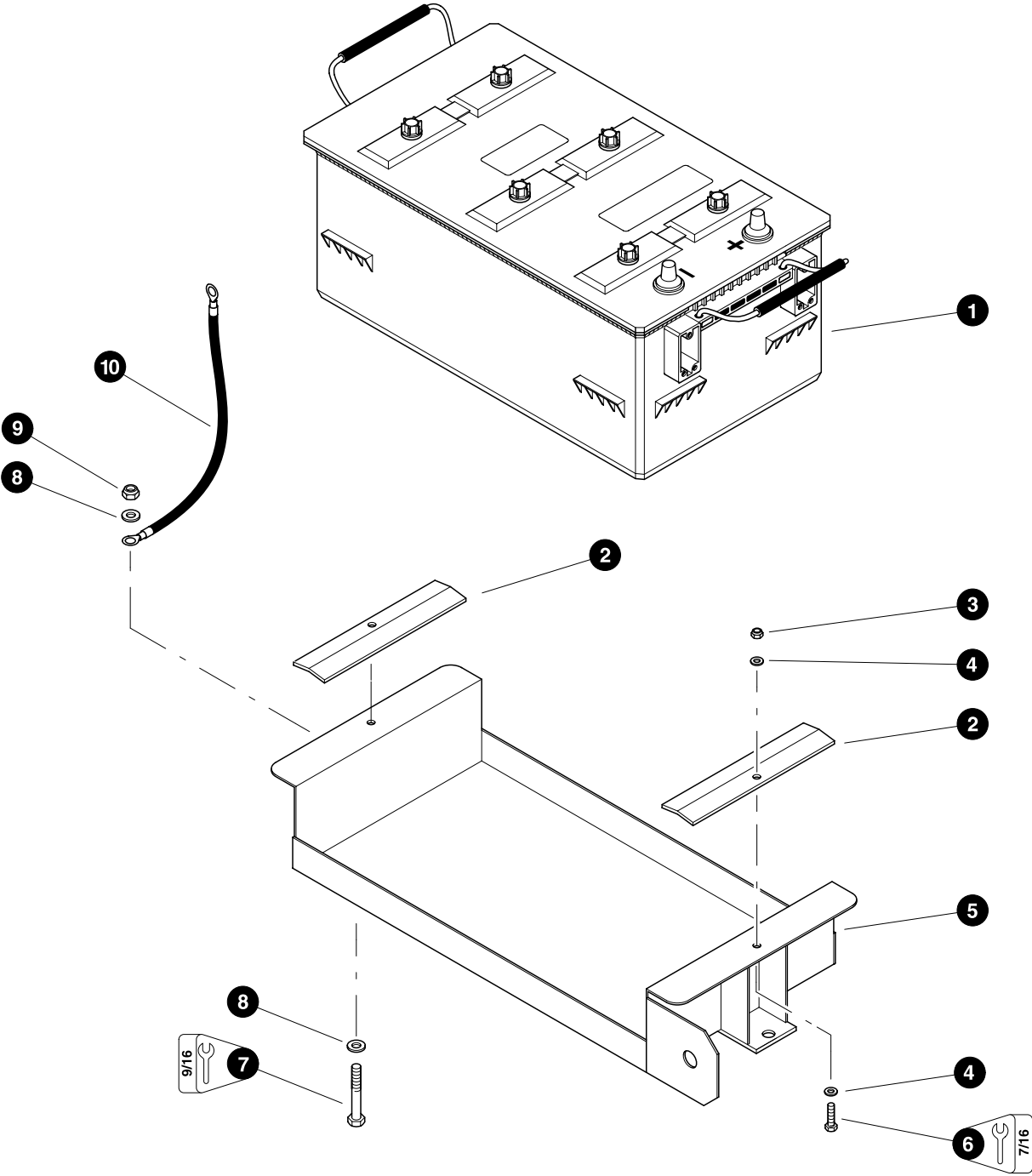
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	CLAM BUNK UPPER COMPONENTS	H.7.4
2	20249	4		PIN, cotter - 1/4" x 2"	
3	13390	2		SHAFT, hinge cover	
4	13385	2		COVER, hinge	
5	13415	4		COVER, access - arm mounting base	
6	15528	14		WASHER, SAE flat - 3/8"	
7	11707	14		BOLT - 3/8" x 1"	
8	13414	2		COVER, access - clam mounting base	
9	REF.	1	✓	CLAM BUNK LOWER BASE COMPONENTS	H.7.2

✓ See referenced page for component breakdown.

Section J.1



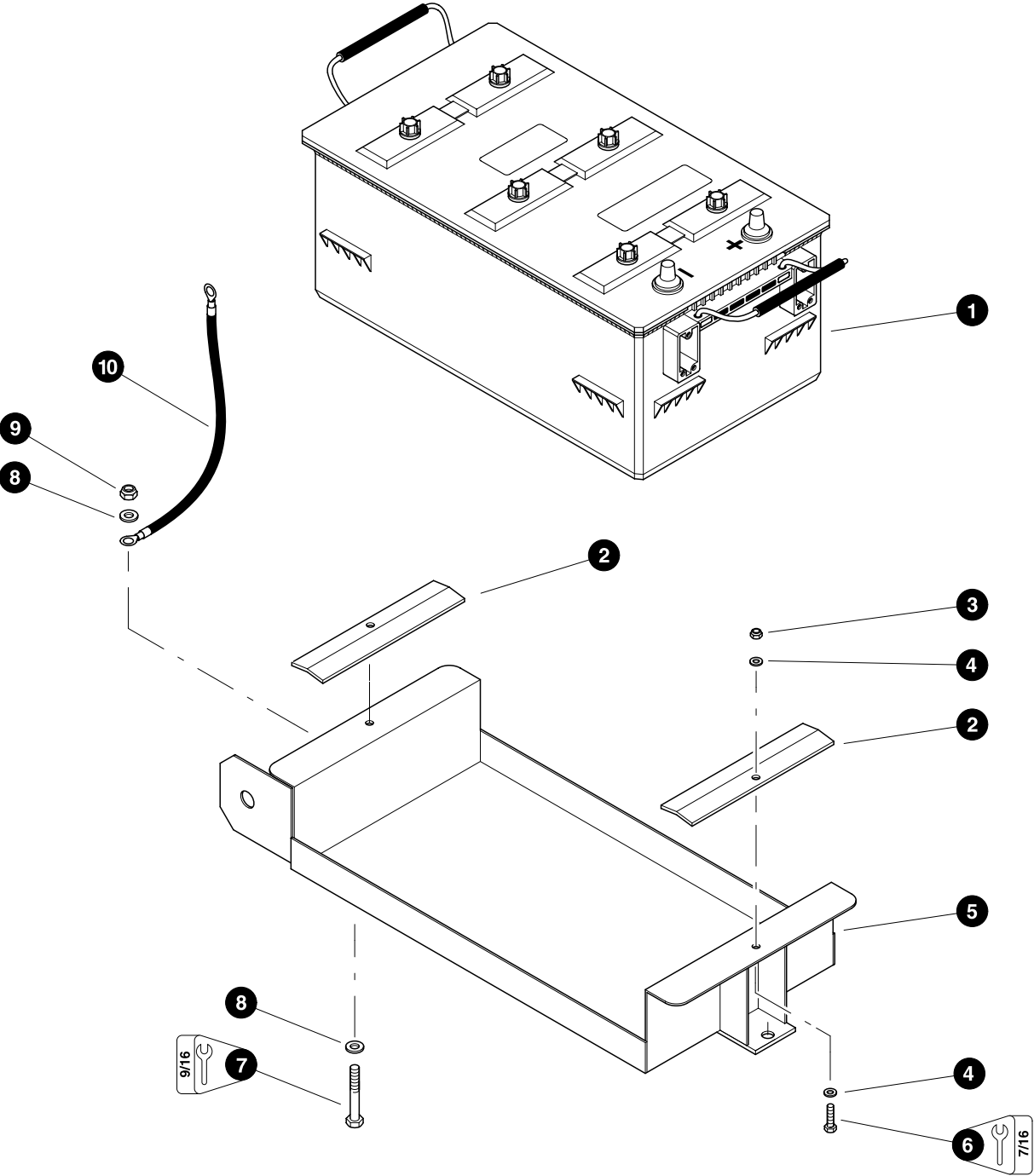
***Electrical System -
Engine***



Parts 00434 02/04/98
25.00

BATTERY INSTALLATION
(Cummins 6CT8.3-C Engine)

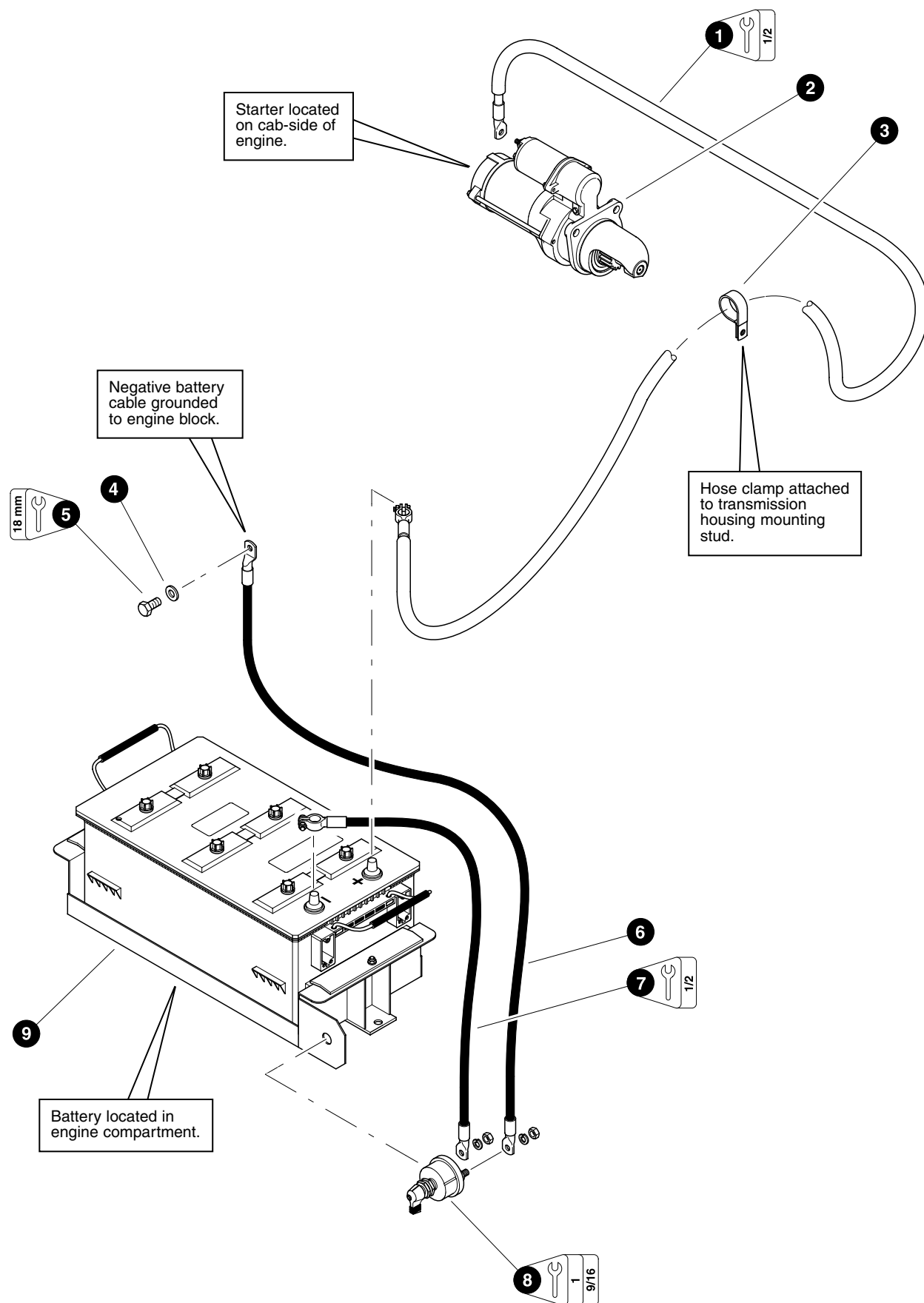
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	18336	1	BATTERY, 12V	
2	18454	2	BRACKET, battery hold-down	
3	18453	1	BRACKET, battery box	
4	15507	2	NUT, nylock - 3/8"	
5	15528	4	WASHER, SAE flat - 3/8"	
6	10702	2	BOLT - 3/8" x 2-1/2"	
7	15576	2	BOLT - 1/4" x 1"	
8	10757	4	WASHER, SAE flat - 1/4"	
9	10811	2	NUT, lock - 1/4"	



Parts 00436 02/04/98
25.00

BATTERY INSTALLATION
(Caterpillar 3116T & 3126T Engines)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	18336	1	BATTERY, 12V	
2	18454	2	BRACKET, battery hold-down	
3	19050	1	BRACKET, battery box	
4	15507	2	NUT, nylock - 3/8"	
5	15528	4	WASHER, SAE flat - 3/8"	
6	10702	2	BOLT - 3/8" x 2-1/2"	
7	15576	2	BOLT - 1/4" x 1"	
8	10757	4	WASHER, SAE flat - 1/4"	
9	10811	2	NUT, lock - 1/4"	



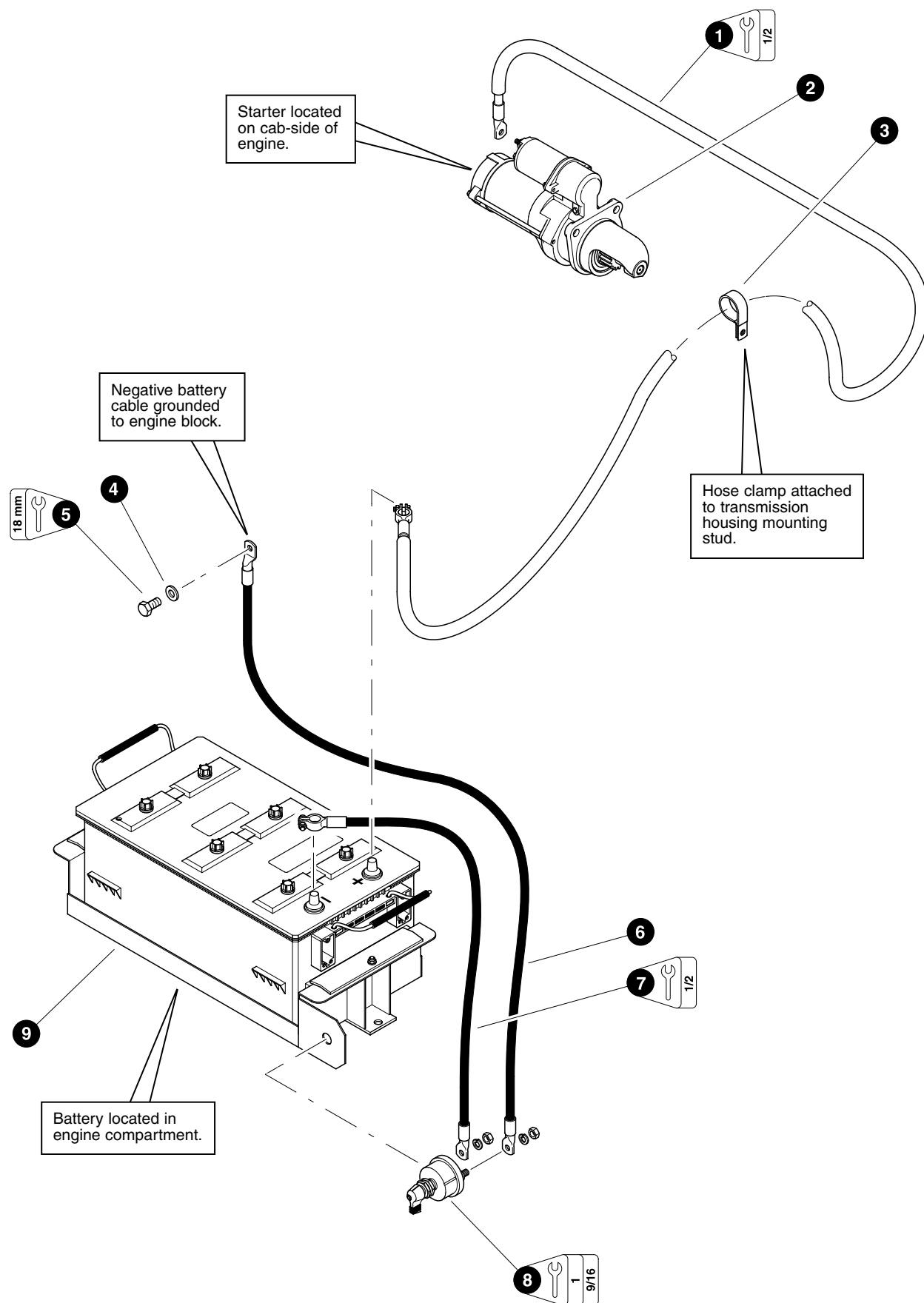
Parts 00435 02/05/98
18.75

BATTERY CABLE INSTALLATION

(Cummins 6CT8.3-C Engines)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	18437	1		CABLE, battery - positive <i>(From positive battery post to starter post)</i>	
2	REF.	1	✓	STARTER	F.3.8
3	17257	1		CLAMP, hose - coated strap - 1-1/2"	
4	18735	1		WASHER, flat - 12mm	
5	15556	1		BOLT - 12mm-1.75P x 20mm	
6	18438	1		CABLE, battery - negative <i>(From master shut-off switch to ground on engine block)</i>	
7	18586	1		CABLE, battery master disconnect <i>(From negative battery post to master shut-off switch)</i>	
8	16289	1		SWITCH, master shut-off	
9	REF.	1	✓	BATTERY	J.1.2

✓ See referenced page for component or assembly breakdown.



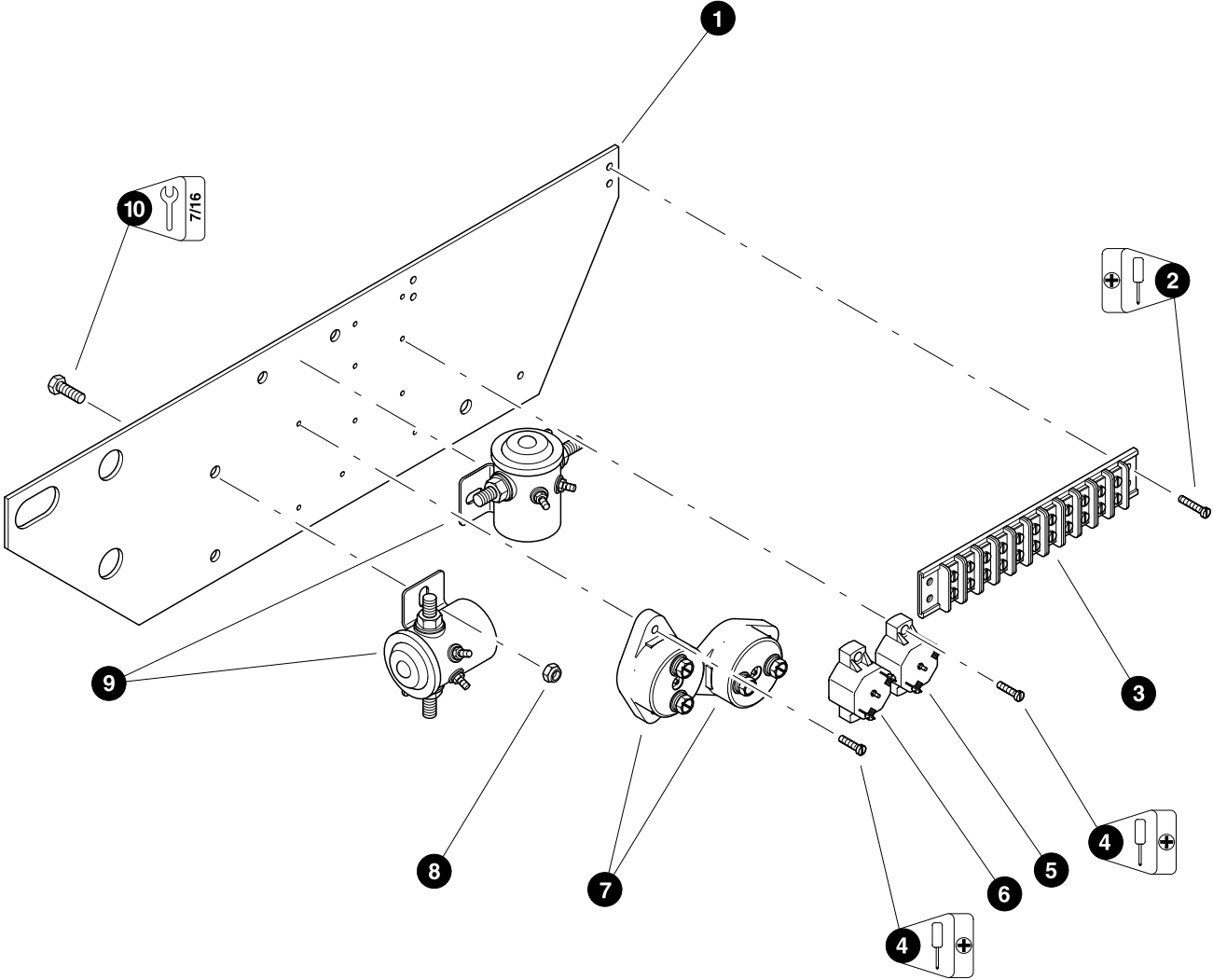
Parts 00435 02/05/98
18.75

BATTERY CABLE INSTALLATION

(Caterpillar 3116T & 3126T Engines)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	18437	1		CABLE, battery - positive <i>(From positive battery post to starter post)</i>	
2	REF.	1	✓	STARTER	F.4.8
3	17257	1		CLAMP, hose - coated strap - 1-1/2"	
4	18735	1		WASHER, flat - 12mm	
5	15556	1		BOLT - 12mm-1.75P x 20mm	
6	19028	1		CABLE, battery - negative <i>(From master shut-off switch to ground on engine block)</i>	
7	18586	1		CABLE, battery master disconnect <i>(From negative battery post to master shut-off switch)</i>	
8	16289	1		SWITCH, master shut-off	
9	REF.	1	✓	BATTERY	J.1.4

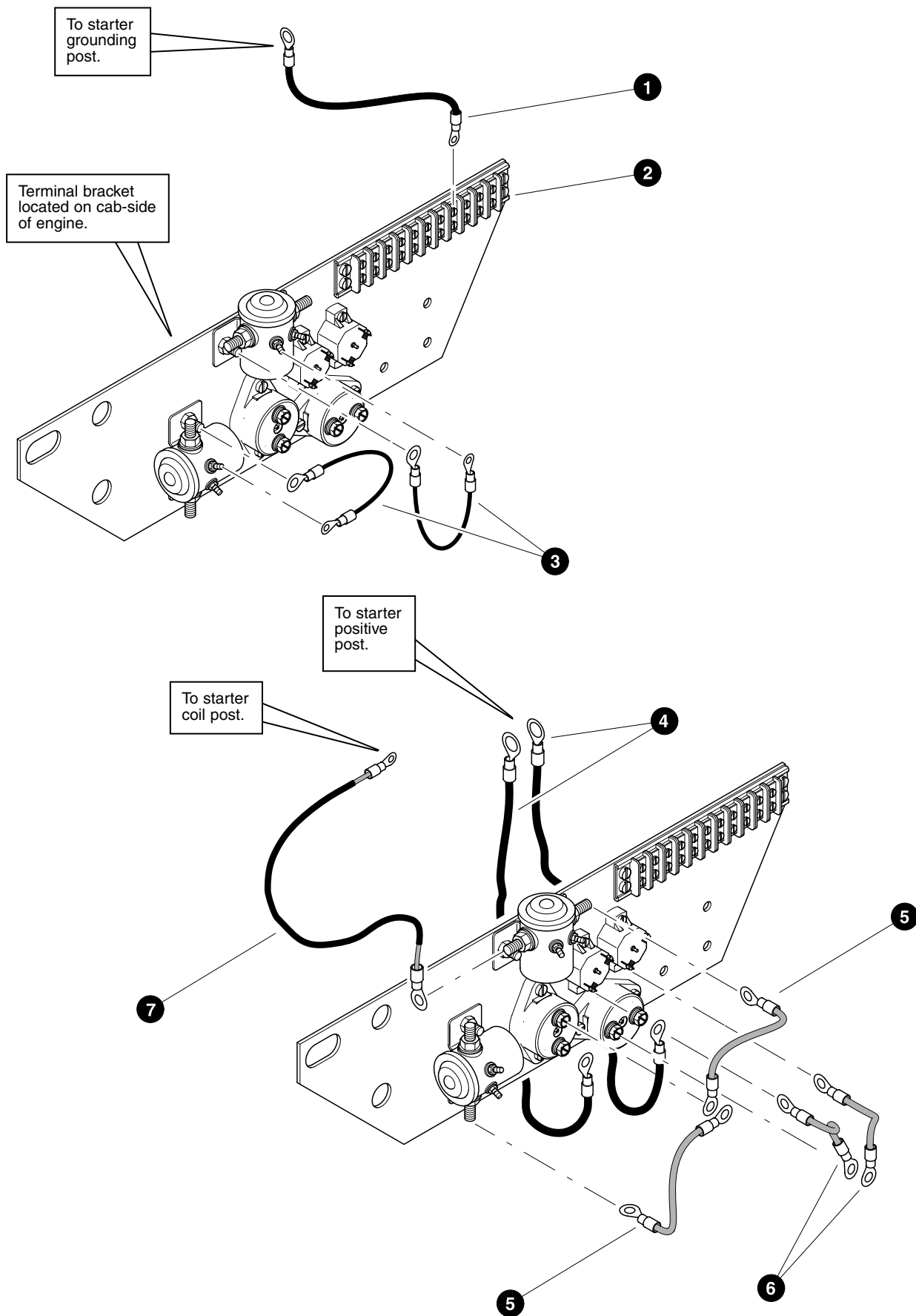
✓ See referenced page for component or assembly breakdown.



MAIN ENGINE ELECTRICAL (Terminal Bracket Components)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	19090	1	☐	HARNESS ASSEMBLY, main engine wiring	
1	18888	1		BRACKET, terminal	
2	15663	4		SCREW, self-tapping machine - #10-24 x 1"	
3	15008	1		STRIP, terminal - engine	
4	16129	8		SCREW, self-tapping machine - #10-24 x 3/4"	
5	16097	1		BREAKER, 40 amp	
6	16078	1		BREAKER, 20 amp	
7	16080	2		BREAKER, 50 amp	
8	15509	4		NUT, nylock - 1/4"	
9	16035	2		RELAY, 12V heavy duty	
10	15604	4		BOLT - 1/4" x 3/4"	

☐ Kit or Assembly - includes all items indented underneath.



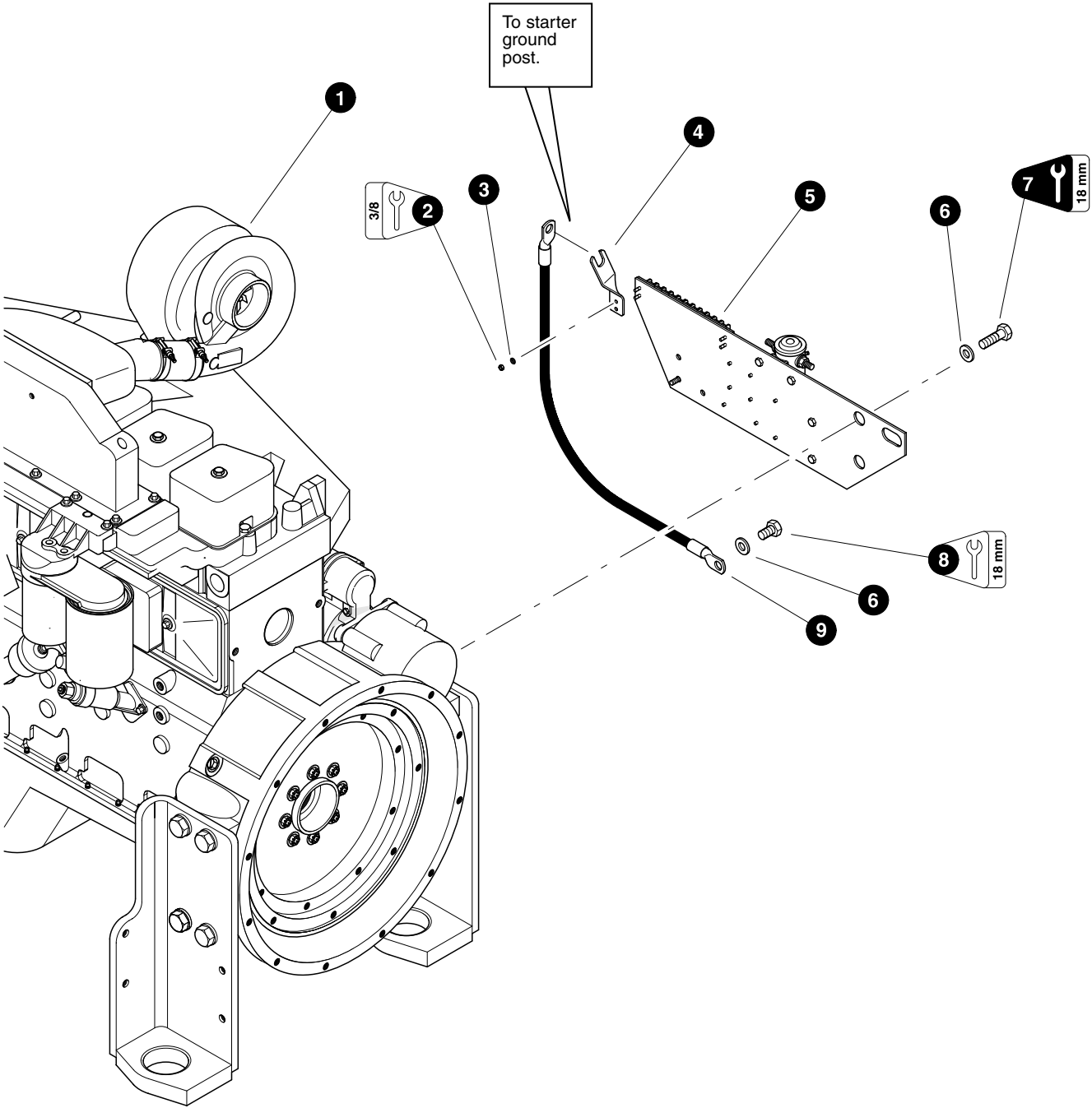
Parts 00441 02/10/98
37.50

MAIN ENGINE ELECTRICAL

(Terminal Bracket Wire Connections)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	19090	1	☐	HARNESS ASSEMBLY, main engine wiring	
1	NSS	1		WIRE ASSEMBLY, terminal strip ground	
2	REF.	1	☒	TERMINAL BRACKET ASSEMBLY	J.1.10
3	NSS	2		WIRE ASSEMBLY, relay ground	
4	NSS	2		WIRE ASSEMBLY, 50 amp breaker power	
5	NSS	2		WIRE ASSEMBLY, relay power	
6	NSS	2		WIRE ASSEMBLY, 20/35 amp breaker power	
7	NSS	1		WIRE ASSEMBLY, starter coil signal	

- ☐ Kit or Assembly - includes all items indented underneath.
- ☒ See referenced page for component or assembly breakdown.



Parts 00439 02/10/98
18.75

MAIN ENGINE ELECTRICAL

(Terminal Bracket Installation - Cummins 6C8.3-C Engine)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ENGINE, Cummins C SERIES 6 cylinder/8.3 litre	F.4.2
2	16131	1		NUT, nylock - #10-24	
3	16208	2		WASHER, flat - #10	
4	17206	1		BRACKET, terminal bracket support	
5	REF.	1	✓	TERMINAL BRACKET ASSEMBLY	J.1.10
6	18735	3		WASHER, flat - 12mm	
7	15551	2		BOLT - 12mm-1.75P x 40mm (Torque to 92 ft.lbs. (122 Nm))	
8	15556	1		BOLT - 12mm-1.75P x 20mm	
9	17394	1		CABLE, starter ground	

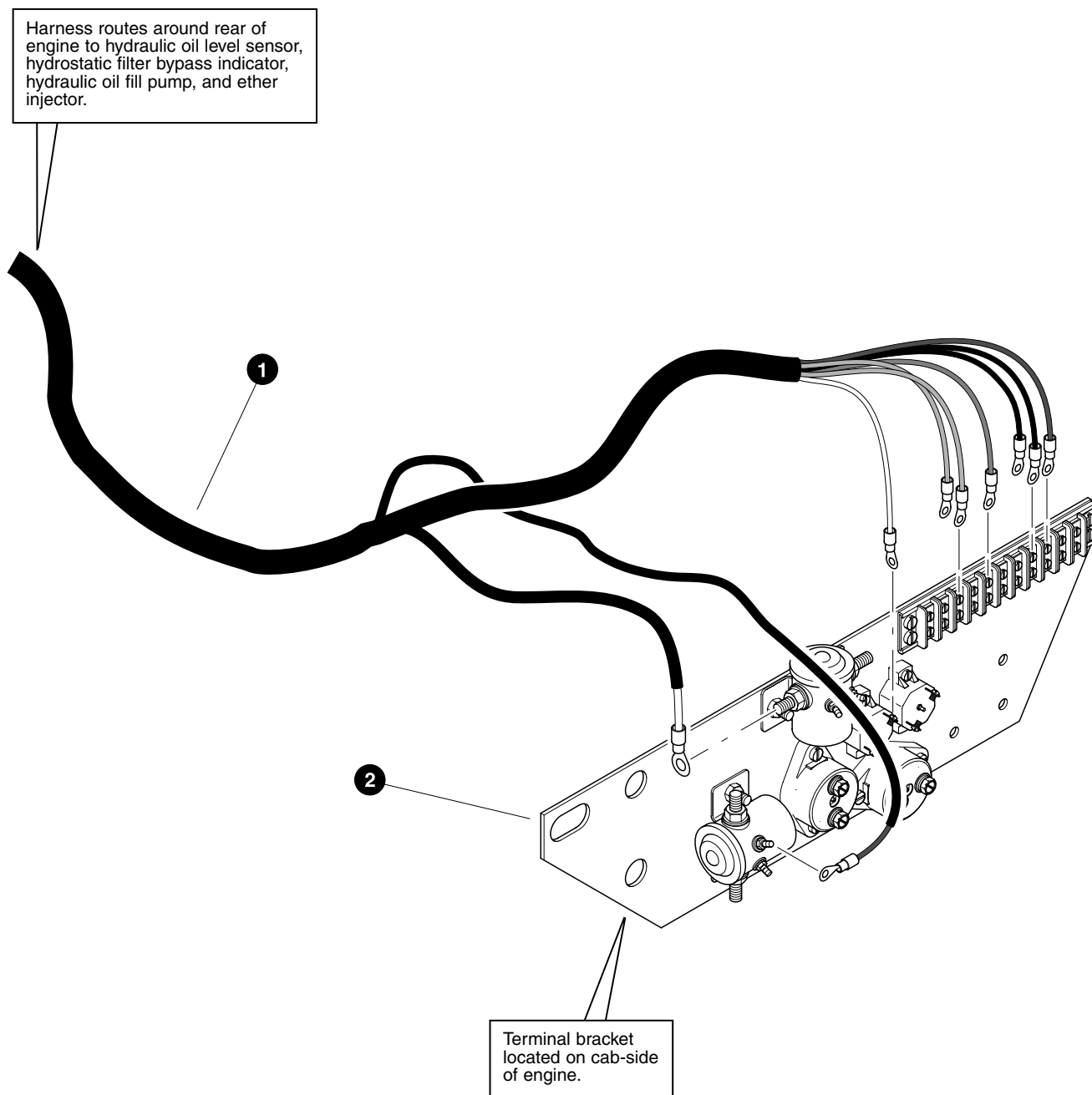
✓ See referenced page for component or assembly breakdown.

MAIN ENGINE ELECTRICAL

(Terminal Bracket Installation - Caterpillar 3116T & 3126T Engines)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ENGINE, Caterpillar 3116T & 3126T	F.5.2
2	15509	1		NUT, nylock - 1/4"	
3	10757	2		WASHER, SAE flat - 1/4"	
4	18232	1		BRACKET, terminal bracket support	
5	REF.	1	✓	TERMINAL BRACKET ASSEMBLY	J.1.10
6	15604	1		BOLT - 1/4" x 3/4"	
7	18777	2		WASHER, flat - 16mm	
8	20623	2		BOLT - 16mm-2.0P x 90mm (Torque to 150 ft.lbs. (200 Nm))	
9	20624	2		SPACER, rear engine mount	

✓ See referenced page for component or assembly breakdown.

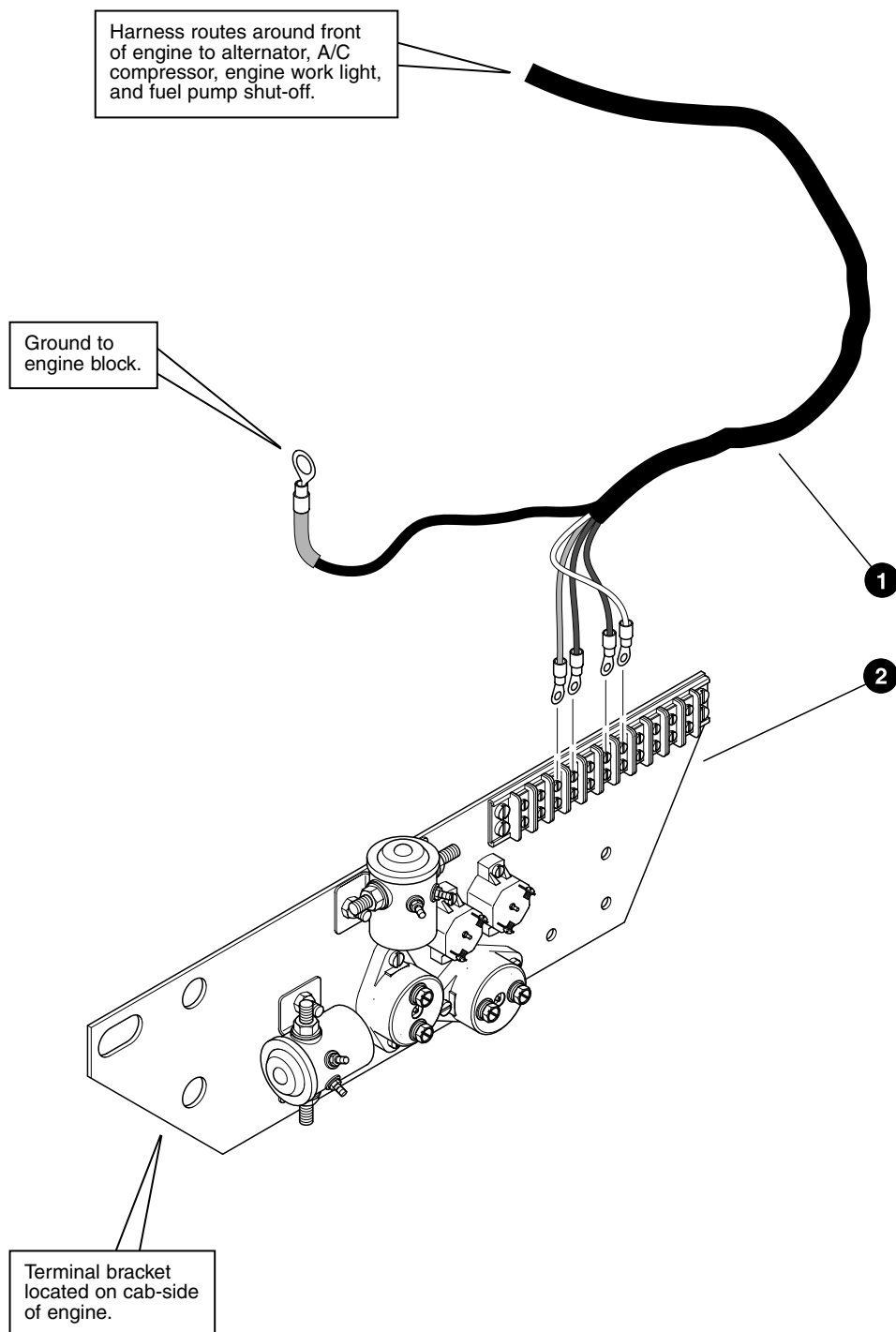


MAIN ENGINE ELECTRICAL

(Engine Harness "A" Connections)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	19090	1	☐	HARNESS ASSEMBLY, main engine wiring	
1	17443	1		WIRE HARNESS, engine "A"	
2	REF.	1	☒	TERMINAL BRACKET ASSEMBLY	J.1.10

- ☐ Kit or Assembly - includes all items indented underneath.
- ☒ See referenced page for component or assembly breakdown.

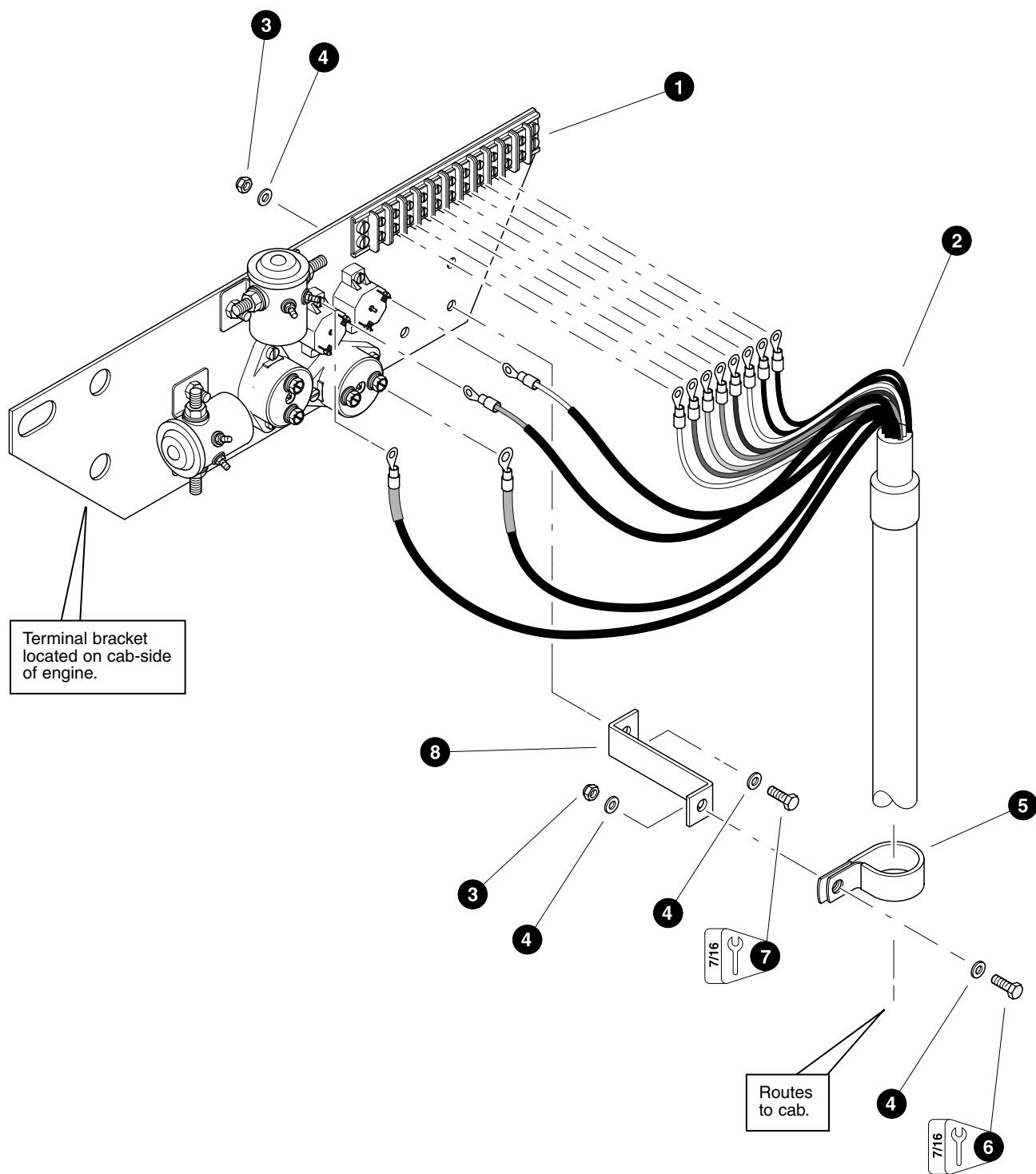


MAIN ENGINE ELECTRICAL

(Engine Harness "B" Connections)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	19090	1	☐	HARNESS ASSEMBLY, main engine wiring	
1	17430	1		WIRE HARNESS, engine "B"	
2	REF.	1	✓	TERMINAL BRACKET ASSEMBLY	J.1.10

- ☐ Kit or Assembly - includes all items indented underneath.
- ✓ See referenced page for component or assembly breakdown.



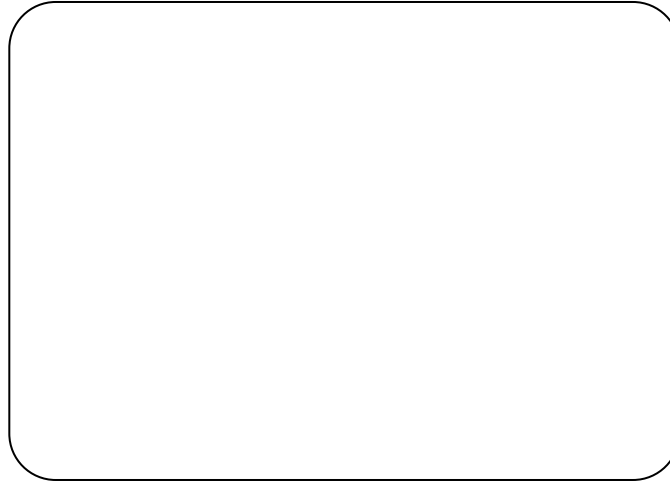
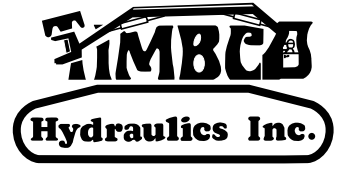
MAIN ENGINE ELECTRICAL

(Main Engine Harness To Cab Connections)

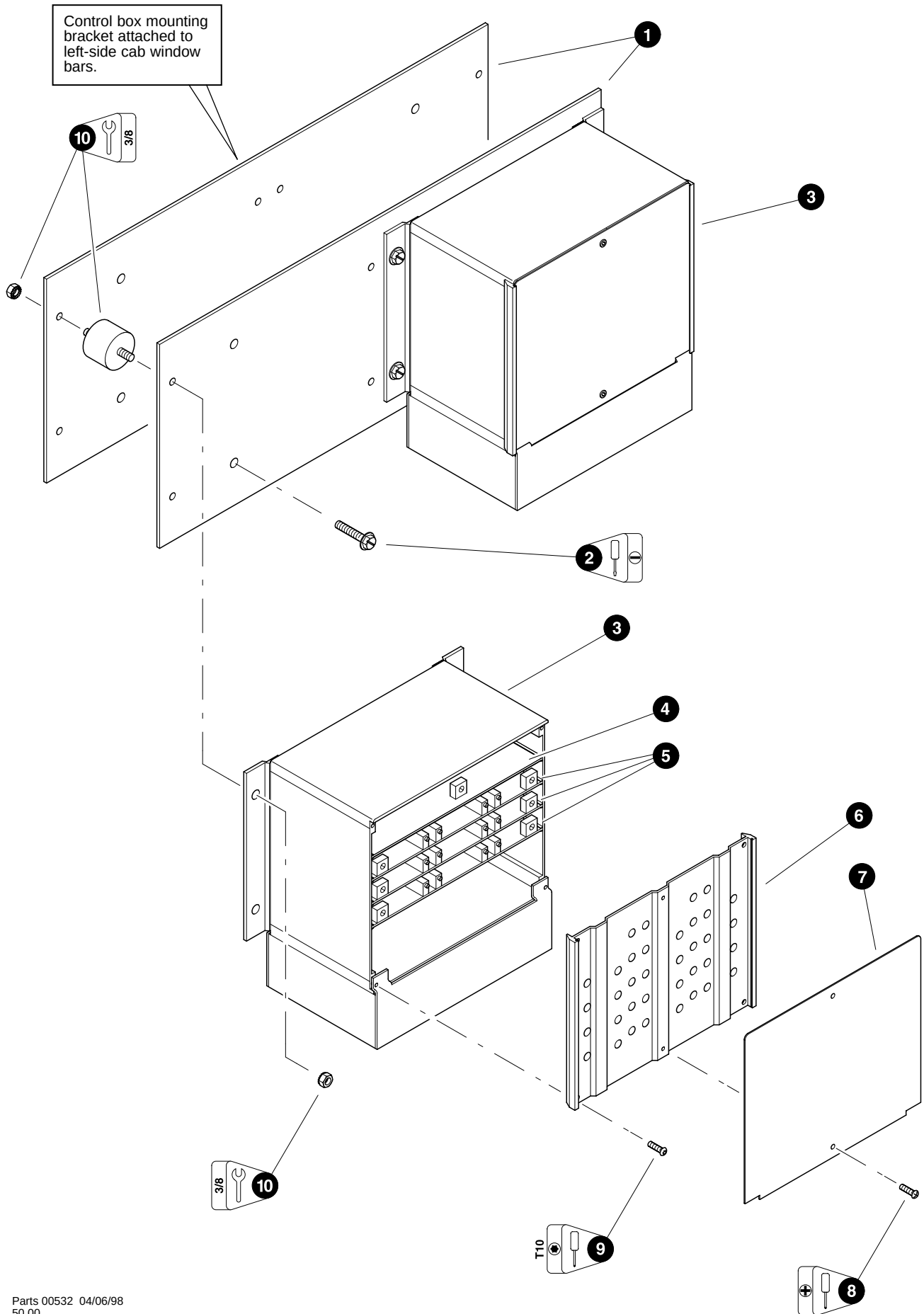
REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	19090	1	☐	HARNESS ASSEMBLY, main engine wiring	
1	REF.	1	☒	TERMINAL BRACKET ASSEMBLY	J.1.10
2	15009	1		WIRE HARNESS, main engine to cab	
3	15509	2		NUT, nylock - 1/4"	
4	10757	4		WASHER, SAE flat - 1/4"	
5	20604	1		CLAMP, hose - coated strap - 1-3/16"	
6	15604	1		BOLT - 1/4" x 3/4"	
7	15604	1		BOLT - 1/4" x 3/4"	
8	20605	1		SUPPORT, wire harness support	

- ☐ Kit or Assembly - includes all items indented underneath.
- ☒ See referenced page for component or assembly breakdown.

Section J.2



Electrical System - Hydro-Electric Controls

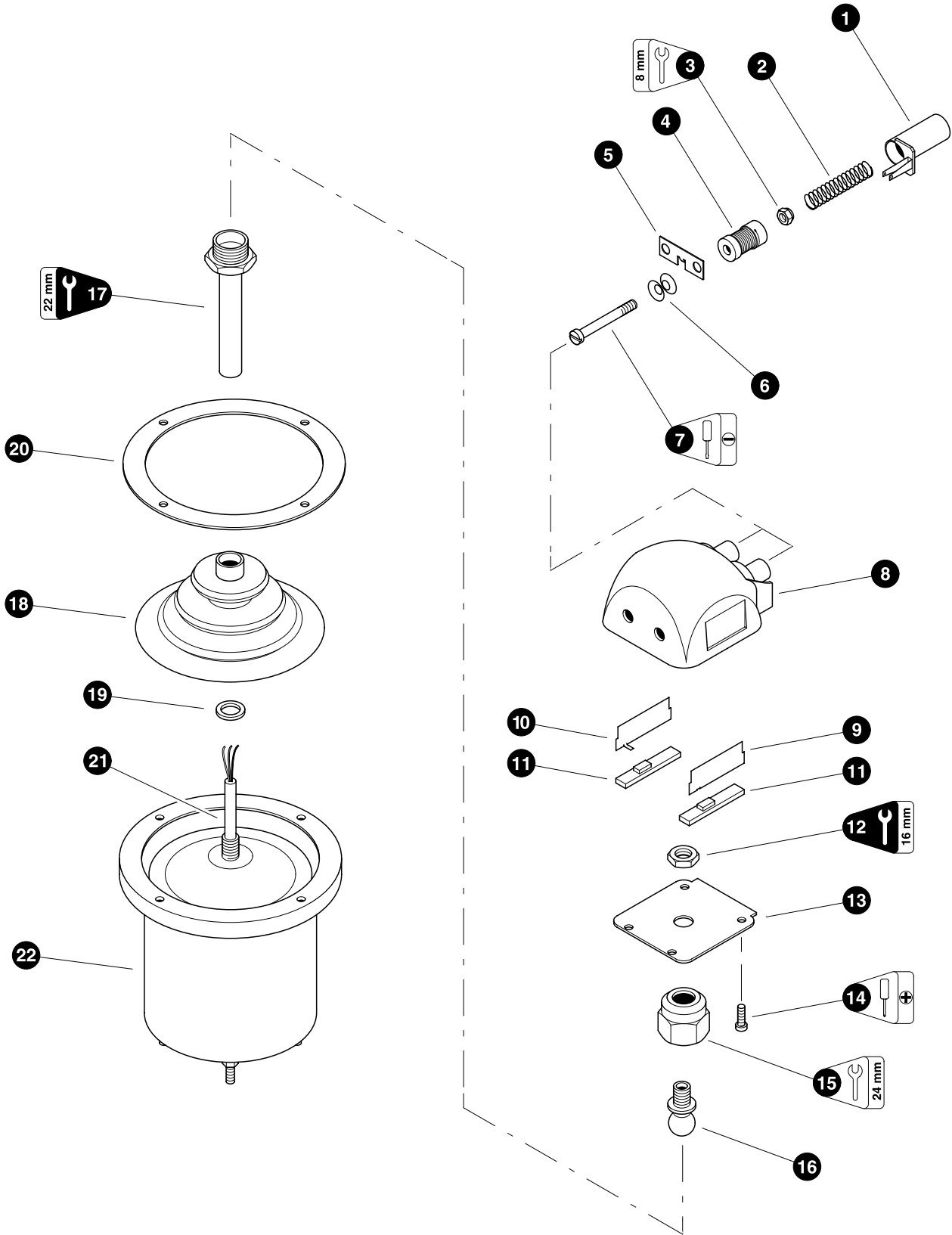


Parts 00532 04/06/98
50.00

COMMAND CONTROL BOX (VOAC)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19307	2		BRACKET, control box mounting	
2	18298	4		SCREW, slotted hex head - #10-24 x 3/4"	
3	19181	1	☐	CONTROL BOX - 3 function (<i>Used as RH control box on all machines</i>)	
	19180	1	☐	CONTROL BOX - 4 function	
4	19359	1		CIRCUIT BOARD, input - 12V	
	19360	1		CIRCUIT BOARD, input - 24V	
5	19357	AR		CIRCUIT BOARD, amplifier - 12V	
	19358	AR		CIRCUIT BOARD, amplifier - 24V	
6	20634	1		COVER	
7	20635	1		PLACARD, face	
8	20636	2		SCREW	
9	20637	4		SCREW	
10	20817	4		ISOLATOR, sandwich mount (<i>Includes mounting hardware</i>)	

☐ Kit or Assembly - includes all items indented underneath.



Parts 00457 02/17/98
50.00

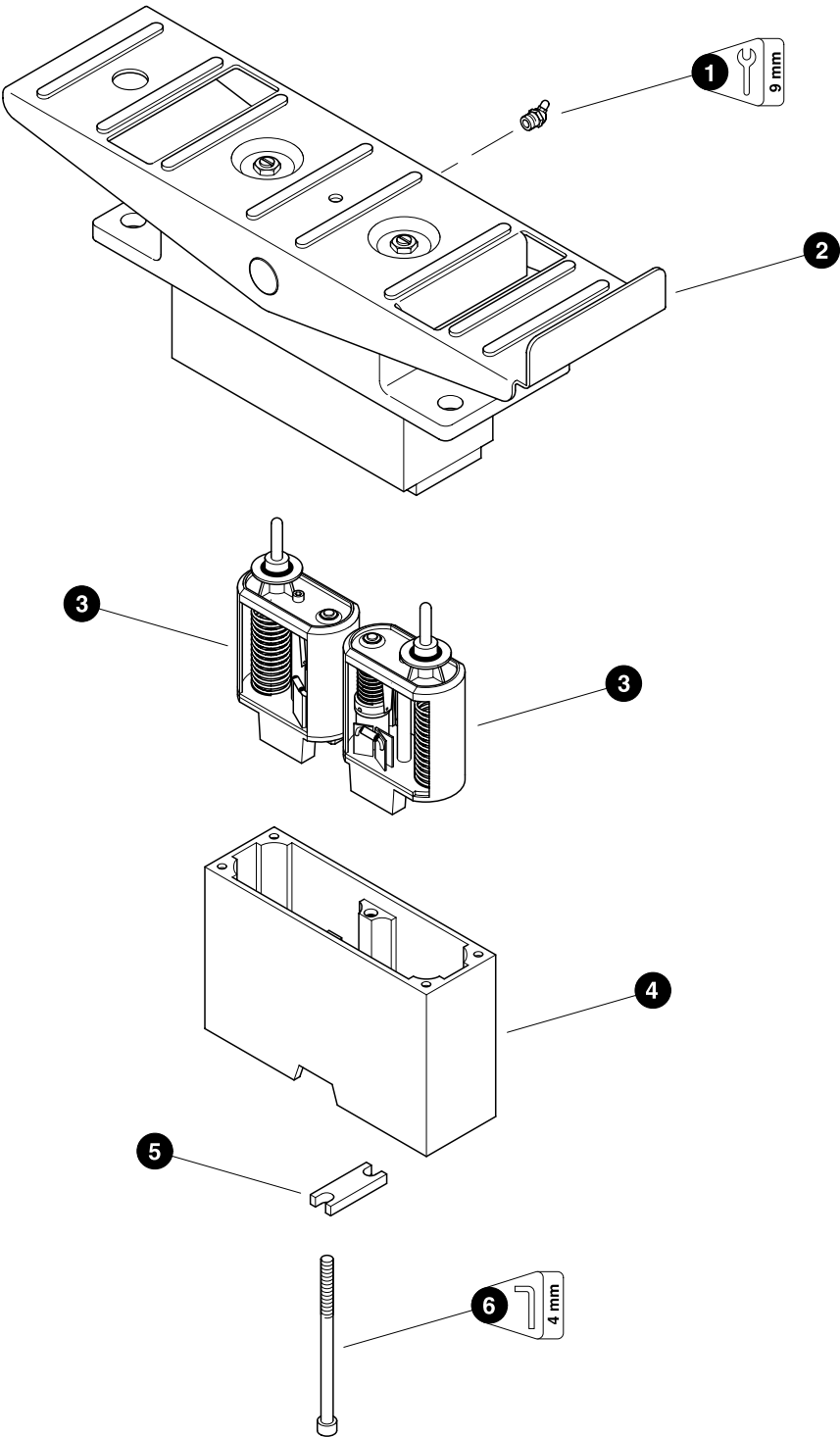
ELECTRONIC HAND (JOYSTICK) CONTROL (VOAC - 3 Axis)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	19182	2	☐	HAND CONTROL, electronic - 3-axis	
1	20638	2		BUTTON, push	
2	20639	2		SPRING, push button switch	
3	20640	2		NUT, nylock - 4mm	
4	20641	2		POTENTIOMETER - 5 ohm	
5	22285	1		BRACKET, potentiometer mounting	
6	20642	16		SPRING, disc	
7	20643	2		SCREW, machine - 4mm x 45mm	
8	22251	1		HOUSING, handle	
9	20644	1		PLATE, contact - LH	
10	20645	1		PLATE, contact - RH	
11	22286	2		SPACER	
--	20646	1	☐	KIT, repair - handle mounting plate	
12	20647	1		NUT, jam - 10mm (Torque to 25 ft.lbs. (33 Nm))	
13	NSS	1		PLATE, handle mounting	
14	20648	4		SCREW, self-tapping	
15	NSS	1		NUT, adapter	
16	NSS	1		ADAPTER	
--	20649	1	☐	KIT, repair - handle mounting stem	
17	NSS	1		STEM (Torque to 12 ft.lbs. (15 Nm))	
18	20650	1		BOOT	
19	20651	1		WASHER, stem	
20	20652	1		RING, boot mounting	
21	20653	1		WIRE ASSEMBLY	
22	NSS	1	☞	LOWER HOUSING ASSEMBLY (See note below)	

- ☐ Kit or Assembly - includes all items indented underneath.
☞ Contact your TIMBCO dealer for additional information.

Note:

Do not disassemble the lower housingp components.



ELECTRONIC FOOT PEDAL CONTROL

(Used on machines PDN# 038FWD and above)

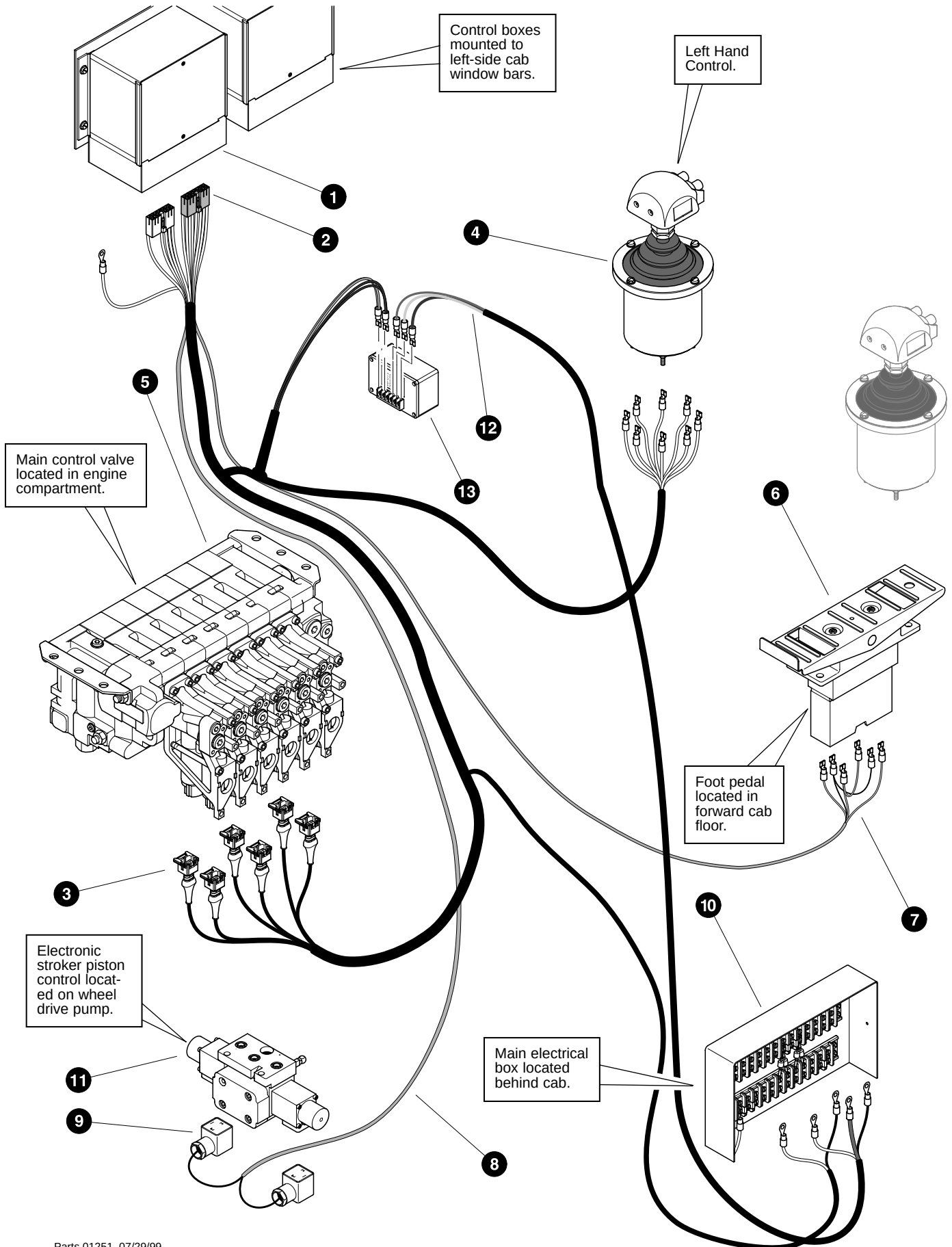
REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	20047	1	☐	PEDAL, foot control - electronic	
1	20629	1		FITTING, 45° grease - 1/8" pipe thread	
2	NSS	1	☞	UPPER FOOT PEDAL ASSEMBLY <i>(See note below)</i>	
3	20630	2		SWITCH, foot pedal - 12V <i>(35 Ohm)</i>	
	20681	2		SWITCH, foot pedal - 24V <i>(50 Ohm)</i>	
4	20631	1		HOUSING, lower	
5	20632	1		SPACER, bolt	
6	20633	2		BOLT, allen head - 6mm x 70mm	

☐ Kit or Assembly - includes all items indented underneath.

☞ Contact your TIMBCO dealer for additional information.

Note:

Do not disassemble the upper foot pedal components.



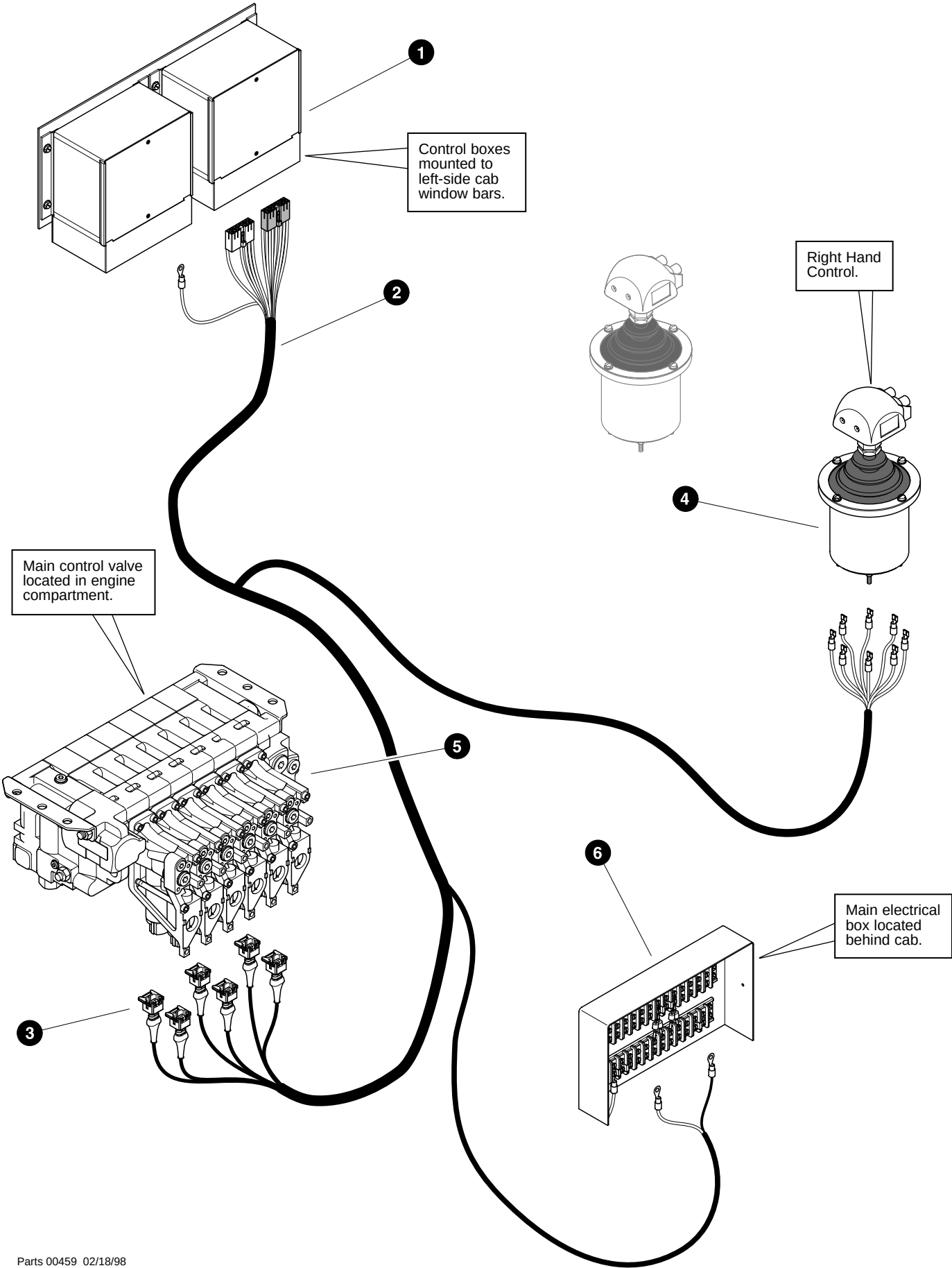
Parts 01251 07/29/99
25.00

HYDRO-ELECTRIC CONNECTIONS - LH

(LH Electronic Joystick/Foot Pedal Controls, Command Control Box & Main Control Valve)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	COMMAND CONTROL BOX - LH	J.2.2
2	19490	1		HARNESS, wire - VOAC LH hand control	
3	19179	6		CONNECTOR, VOAC valve	
4	REF.	1	✓	ELECTRONIC HAND CONTROL - LH	J.2.4
5	REF.	1	✓	MAIN CONTROL VALVE	Blue A
6	REF.	1	✓	FOOT PEDAL CONTROL	J.2.6
7	20656	1		HARNESS, wire - electronic foot pedal "A" (<i>Foot pedal to LH command control box</i>)	
8	20657	1	☐	HARNESS, wire - electronic foot pedal "B" (<i>LH command control box to wheel drive pump stroke control</i>)	
9	17145	2		CONNECTOR, hirschmann	
10	REF.	1	✓	MAIN ELECTRICAL BOX	J.3.8
11	REF.	1	✓	ELECTRONIC STROKER PISTON	C.3.6
12	20421	1	☐	HARNESS, wire - electronic foot pedal "B" (<i>LH command control box to horsepower limiting control box to main electrical box</i>)	
13	20258	1		RELAY, travel signal	

- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.



Parts 00459 02/18/98
25.00

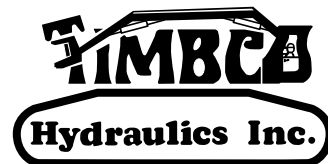
HYDRO-ELECTRIC CONNECTIONS - RH

(RH Electronic Joystick Control, Command Control Box & Main Control Valve)

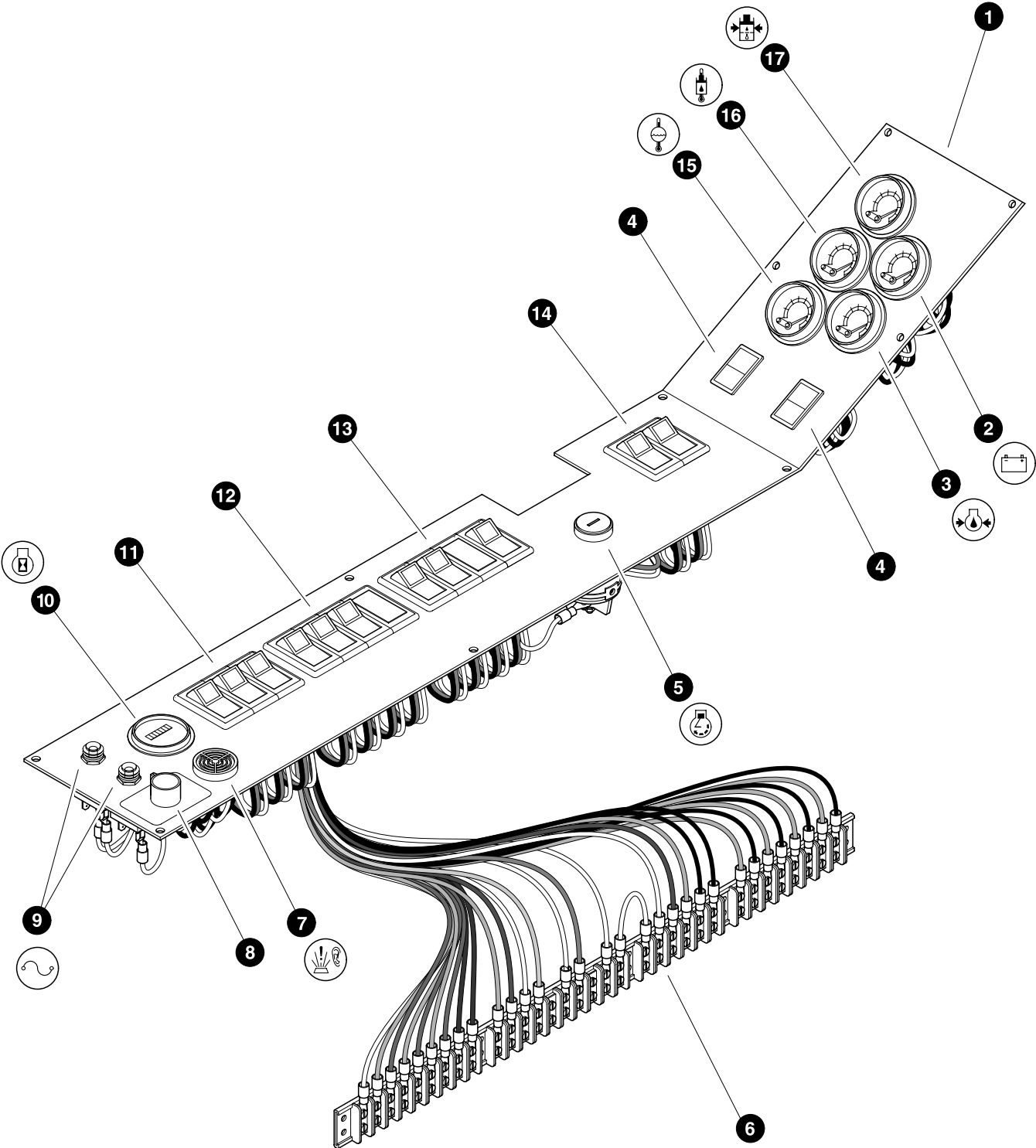
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	COMMAND CONTROL BOX - RH	J.2.2
2	19489	1		HARNESS, wire - VOAC RH hand control	
3	19179	6		CONNECTOR, VOAC valve	
4	REF.	1	✓	ELECTRONIC HAND CONTROL - RH	J.2.4
5	REF.	1	✓	MAIN CONTROL VALVE	Blue A
6	REF.	1	✓	MAIN ELECTRICAL BOX	J.3.8

✓ See referenced page for component or assembly breakdown.

Section J.3



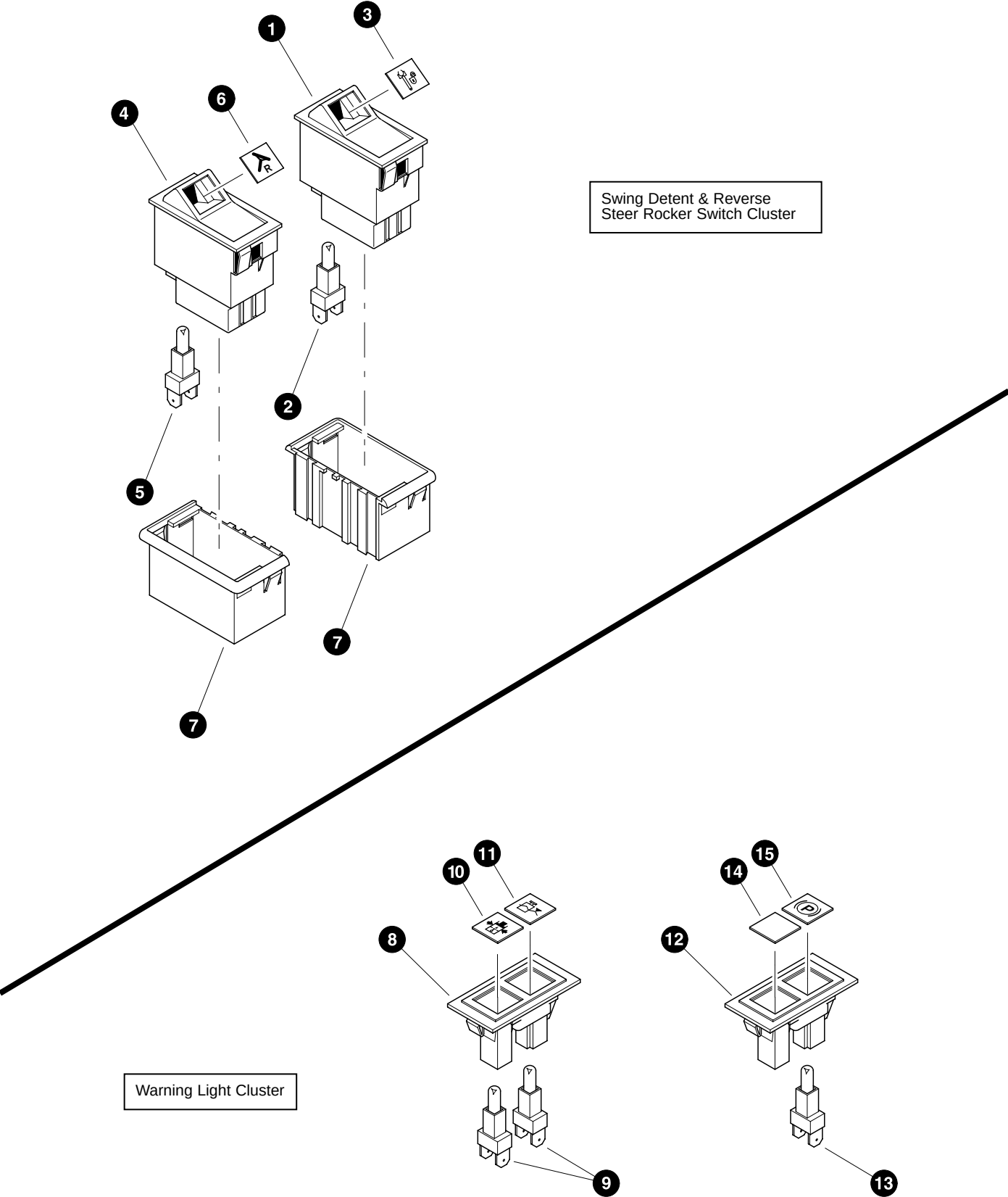
Electrical System - Cab & Auxiliary



DASH PANEL COMPONENTS

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19711	1	☐	PANEL, dash	
2	15026	1		GAUGE, voltmeter	
3	18167	1	☐	GAUGE, engine oil pressure	
	19362	1		LIGHT, gauge	
4	REF.	2		WARNING LIGHT CLUSTER	J.3.4
5	15028	1	☐	SWITCH, ignition	
	16936	1		KEY, ignition (NG100)	
6	20913	1		STRIP, terminal - 20 terminal	
7	15027	1		SIREN, warning	
8	20901	1		SWITCH, A/C thermal control	
	20902	1		KNOB	
	22868	1		DECAL, temperature setting	
9	15029	2		BREAKER, circuit - 8 amp	
10	15025	1		GAUGE, hourmeter	
11	REF.	1		ROCKER SWITCH CLUSTER (A/C controls)	J.3.8
12	REF.	1		ROCKER SWITCH CLUSTER (Auxiliary controls)	J.3.6
13	REF.	1		ROCKER SWITCH CLUSTER (Travel controls)	J.3.6
14	REF.	1		ROCKER SWITCH CLUSTER (Reverse travel controls)	J.3.4
15	18168	1	☐	GAUGE, engine water temperature	
	19362	1		LIGHT, gauge	
16	18169	1	☐	GAUGE, hydraulic oil temperature	
	19362	1		LIGHT, gauge	
17	18170	1	☐	GAUGE, return filter back-pressure	
	19362	1		LIGHT, gauge	

- ☐ Kit or Assembly - includes all items indented underneath.
✓ See referenced page for component or assembly breakdown.



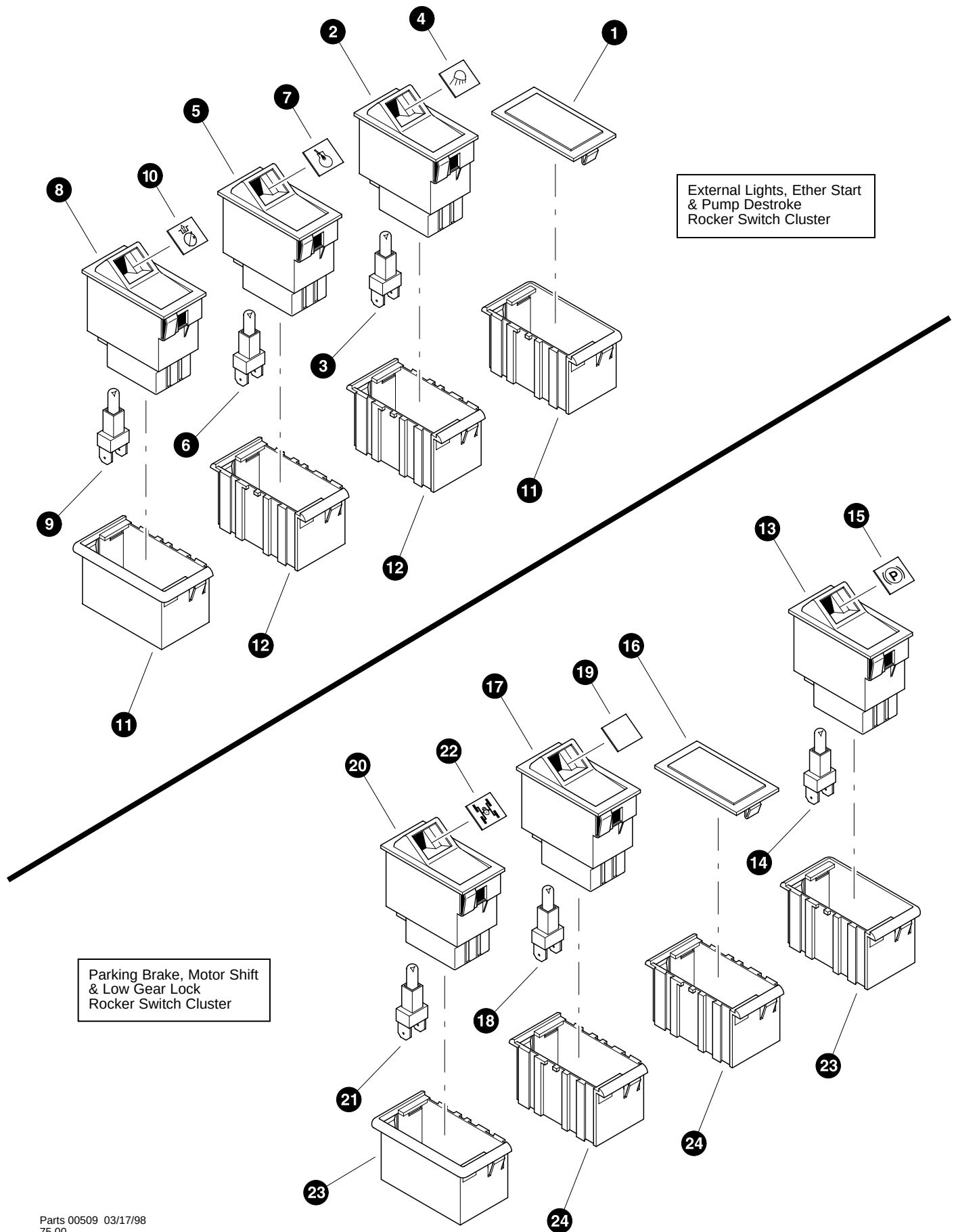
Parts 00508 03/17/98
75.00

ROCKER SWITCH & WARNING LIGHT CLUSTERS

(Warning Lights & Reverse Travel Control Rocker Switches)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	18181	1	☐	SWITCH, rocker - ON/OFF (Swing detent)	
2	18824	1		LIGHT	
3	20827	1		LENS, indicator light - red (Swing detent)	
4	20912	1	☐	SWITCH, rocker - ON/OFF (Reverse Steer)	
5	18824	1		LIGHT	
6	20828	1		LENS, indicator light - red (Reverse Steer)	
7	18288	2		FRAME, rocker switch mounting - end	
8	18171	1		CLUSTER, warning light - left mounting	
9	18824	2		LIGHT	
10	18174	1		LENS, indicator light - yellow (Charge oil bypass)	
11	18173	1		LENS, indicator light - red (Low oil level)	
12	18171	1		CLUSTER, warning light - right mounting	
13	18824	1		LIGHT	
14	20831	1		BLANK, indicator light	
15	18175	1		LENS, indicator light - red (Parking brake)	

☐ Kit or Assembly - includes all items indented underneath.



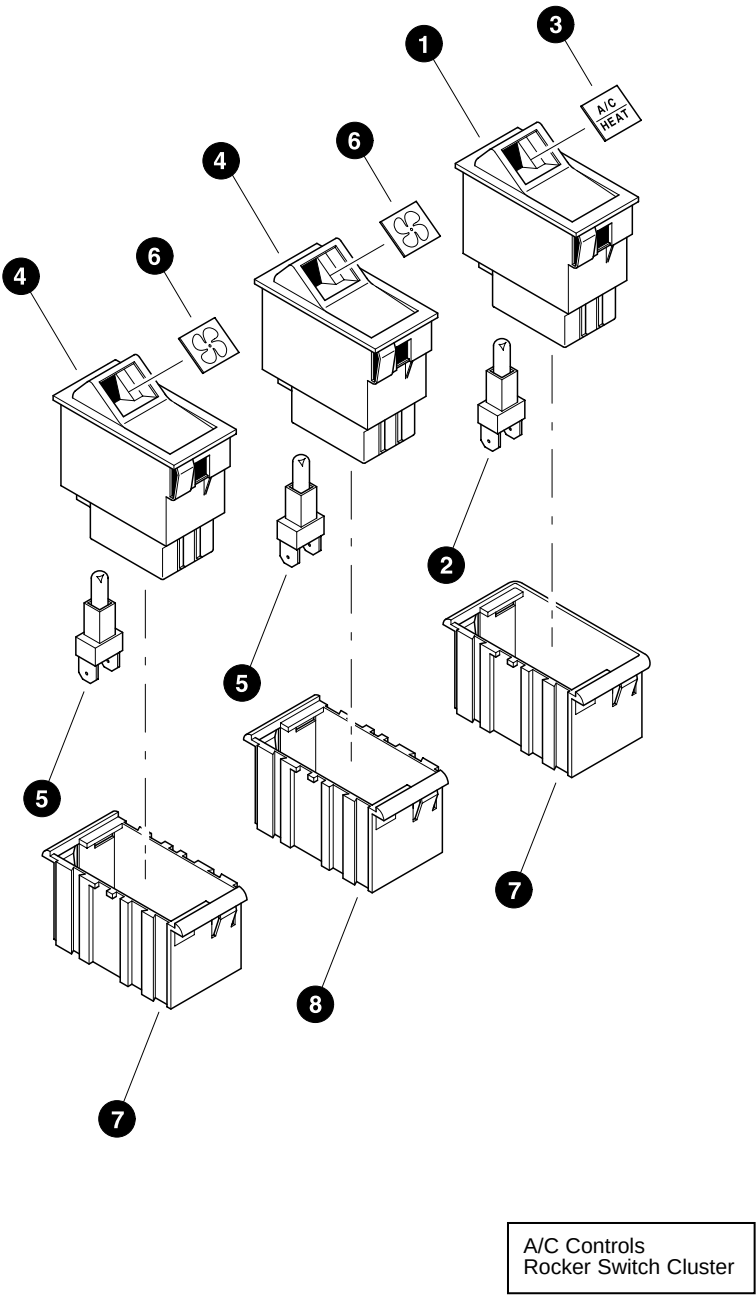
Parts 00509 03/17/98
75.00

ROCKER SWITCH & WARNING LIGHT CLUSTERS

(Travel & Auxiliary Control Rocker Switches)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	18290	1		INSERT, rocker switch blank	
2	18181	1	☐	SWITCH, rocker - ON/OFF (Exterior lights)	
3	18824	1		LIGHT	
4	18178	1		LENS, indicator light - green (Exterior lights)	
5	18180	1	☐	SWITCH, rocker - momentary (Ether start)	
6	18824	1		LIGHT	
7	20829	1		LENS, indicator light - green (Ether start)	
8	18180	1	☐	SWITCH, rocker - momentary (Pump destroke)	
9	18824	1		LIGHT	
10	20830	1		LENS, indicator light - green (Pump destroke)	
11	18288	2		FRAME, rocker switch mounting - end	
12	18289	2		FRAME, rocker switch mounting - center	
13	18182	1	☐	SWITCH, rocker - parking brake	
14	18824	1		LIGHT	
15	18175	1		LENS, indicator light - red (Parking brake)	
16	18290	1		INSERT, rocker switch blank	
17	18181	1	☐	SWITCH, rocker - ON/OFF (High motor displacement lock)	
18	18824	1		LIGHT	
27	20831	1		BLANK, indicator light	
20	18181	1	☐	SWITCH, rocker - ON/OFF (Differential lock)	
21	18824	1		LIGHT	
22	20609	1		LENS, indicator light - yellow (Differential lock)	
23	18288	2		FRAME, rocker switch mounting - end	
24	18289	2		FRAME, rocker switch mounting - center	

☐ Kit or Assembly - includes all items indented underneath.

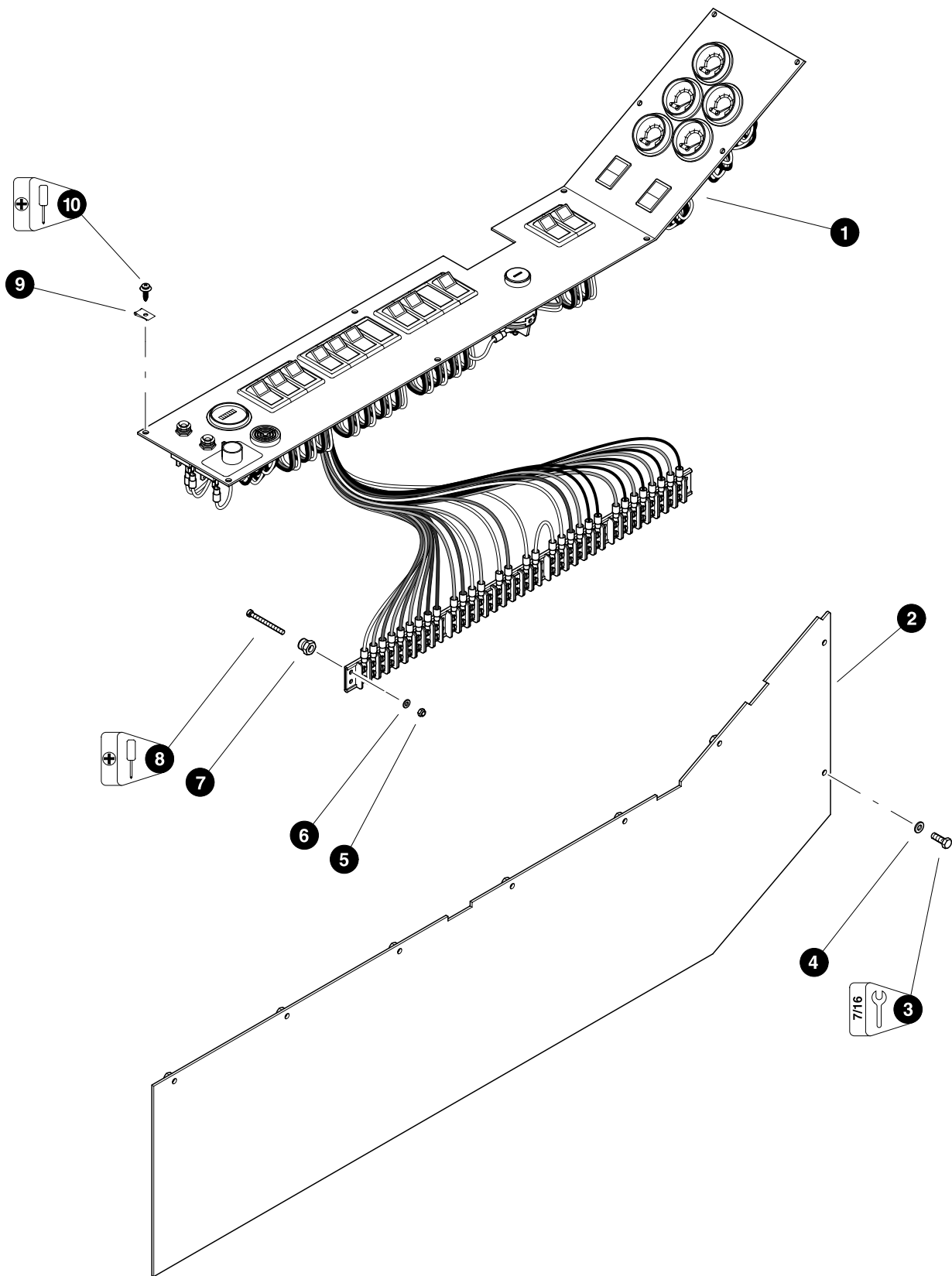


ROCKER SWITCH & WARNING LIGHT CLUSTERS

(A/C Control Rocker Switches)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20834	1	☐	SWITCH, rocker - A/C mode select	
2	18824	1		LIGHT	
3	20832	1		LENS, indicator light - blue (A/C Mode)	
4	20835	2	☐	SWITCH, rocker - 3-way fan speed	
5	18824	1		LIGHT	
6	20833	1		LENS, indicator light - blue (A/C fan)	
7	18288	2		FRAME, rocker switch mounting - end	
8	18289	1		FRAME, rocker switch mounting - center	

☐ Kit or Assembly - includes all items indented underneath.

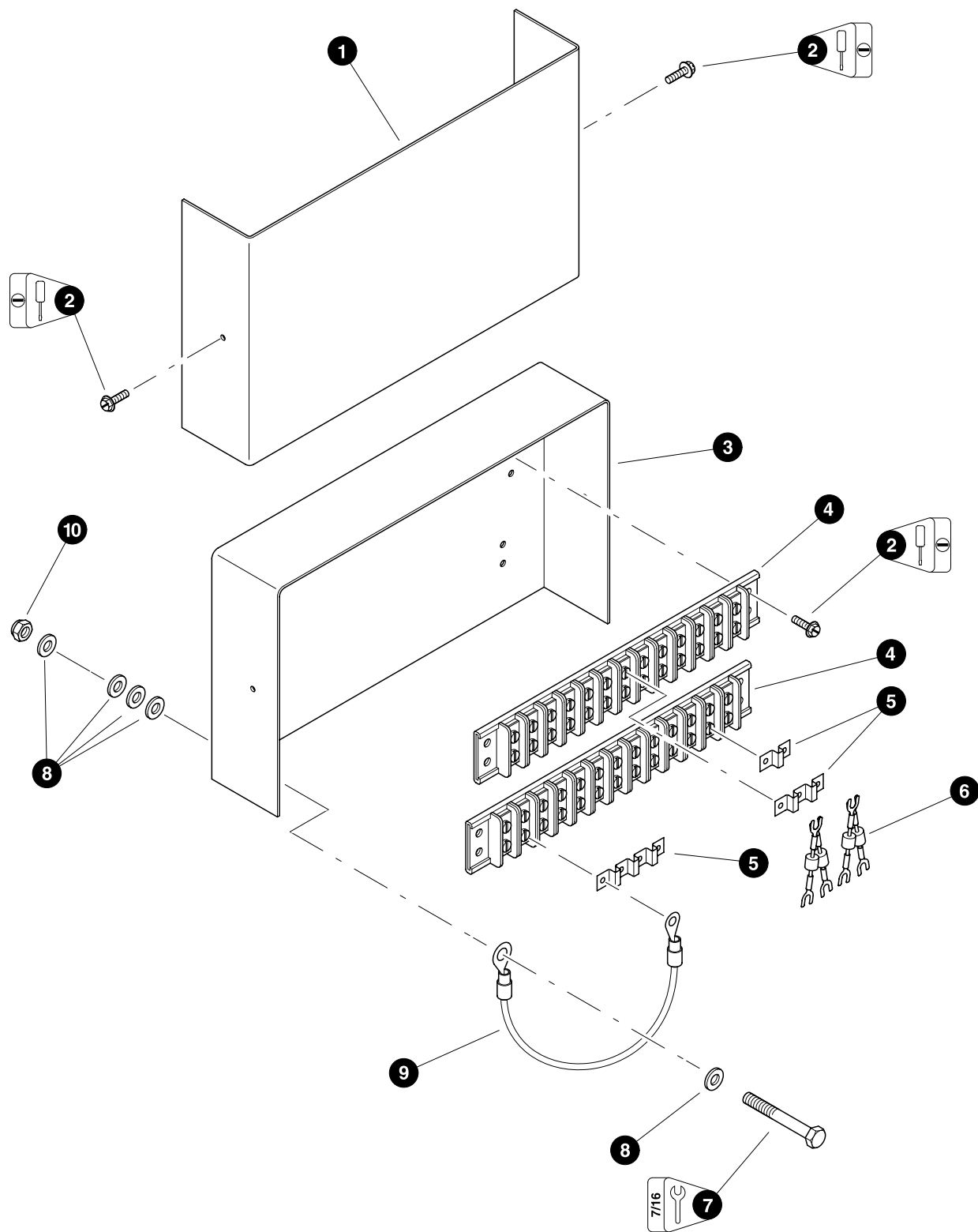


Parts 01737 08/08/00
25.00

DASH PANEL INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	DASH PANEL	J.3.2
2	20836	1		COVER, dash wiring	
3	15604	8		BOLT - 1/4" x 3/4"	
4	10757	8		WASHER, SAE flat - 1/4"	
5	16131	3		NUT, nylock - #10-24	
6	16208	3		WASHER, flat - #10	
7	15574	3		BUSHING, reducer - 5406-4-2 (Used as a spacer)	
8	20622	3		SCREW, machine - #10-24 x 2"	
9	16213	10		SCREW, phillips - #10 - 3/4"	
10	16212	10		NUT, speed - #10	

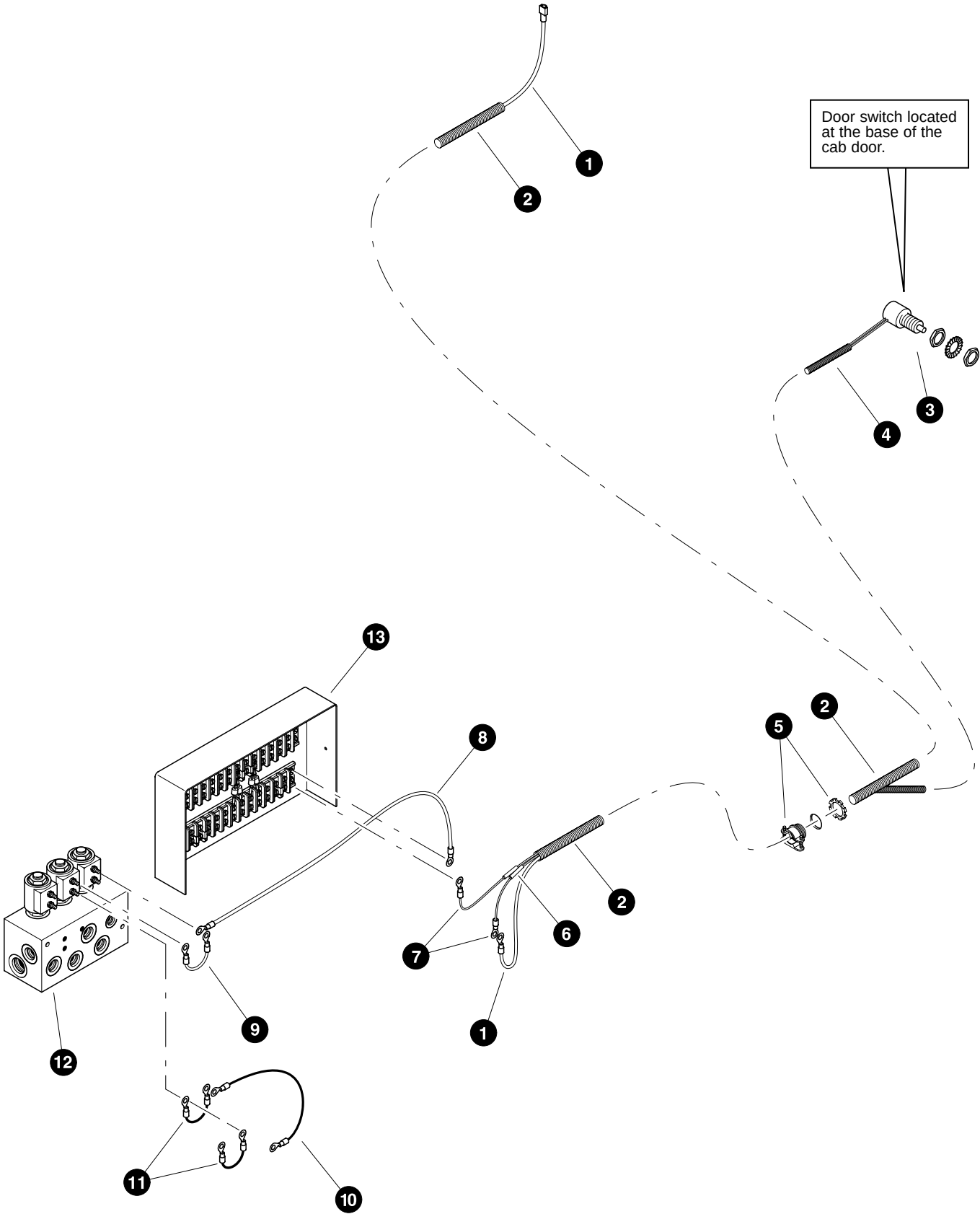
✓ See referenced page for component or assembly breakdown.



Parts 00461 02/18/98
50.00

MAIN ELECTRICAL BOX
(Located Behind Cab)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	12426	1	BOX, electrical terminal - outer	
2	17254	10	SCREW, self-tapping - #10-24 x 1/2"	
3	12425	1	BOX, electrical terminal - inner	
4	15016	2	STRIP, terminal - 13 terminals	
5	15053	6	JUMPER, tab terminal	
6	15017	4	DIODE	
7	15568	2	BOLT - 1/4" x 2"	
8	10757	10	WASHER, SAE flat - 1/4"	
9	20655	1	WIRE ASSEMBLY - electrical box ground	
10	10811	2	NUT, lock - 1/4"	



Door switch located at the base of the cab door.

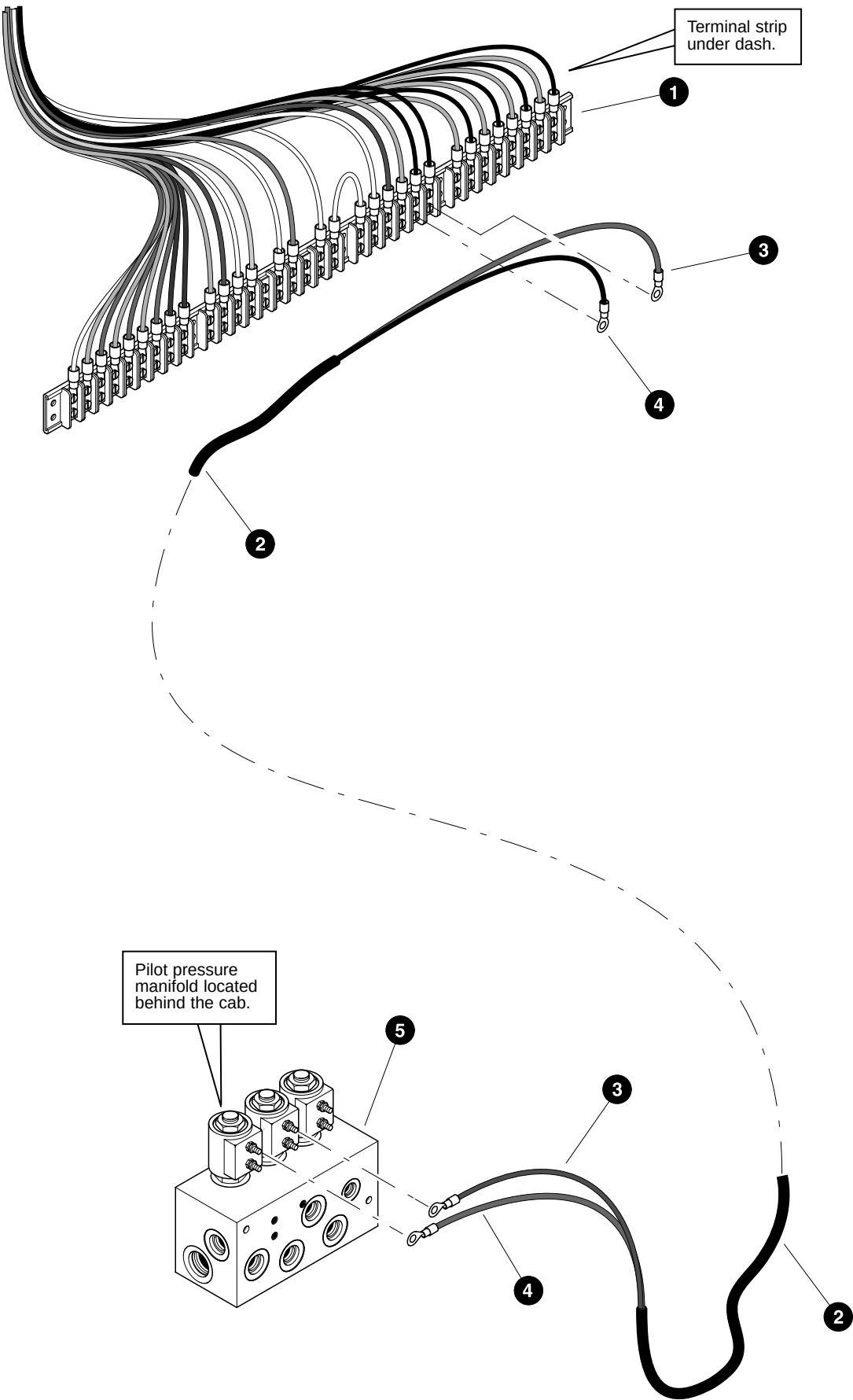
All components located behind the cab unless otherwise noted.

CAB ELECTRICAL BOX CONNECTIONS

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	----	1		WIRE, power lead (14 ga. White - 8 Amp breaker in dash to cab electrical box lower terminal strip)	
2	17449	AR	⌘	LOOM, wire - 1/2"	
3	16505	1		SWITCH, door (Includes mounting hardware and 36" wire leads)	
4	16705	AR	⌘	LOOM, wire - 1/4"	
5	16331	1		RELIEF, strain	
6	----	2		SPLICE, butt (18 ga.)	
7	----	2		WIRE, door switch lead extension (18 ga. White - door switch wire lead splice to cab electrical box)	
8	----	1		WIRE, power lead (14 ga. White - cab electrical box upper terminal strip to door solenoid power stud)	
9	----	1		WIRE, power lead jumper (14 ga. White - door solenoid power stud to center solenoid power stud)	
10	----	1		WIRE, ground (14 ga. Black - door solenoid ground stud to pilot pressure manifold mounting hardware)	
11	----	2		WIRE, ground jumper (14 ga. Black - door solenoid ground stud to center solenoid ground stud)	
12	REF.	1	✓	PILOT PRESSURE MANIFOLD	D.1.4
13	REF.	1	✓	CAB ELECTRICAL BOX	J.3.8

⌘ Bulk material - order length required in feet or metres.

✓ See referenced page for component or assembly breakdown.

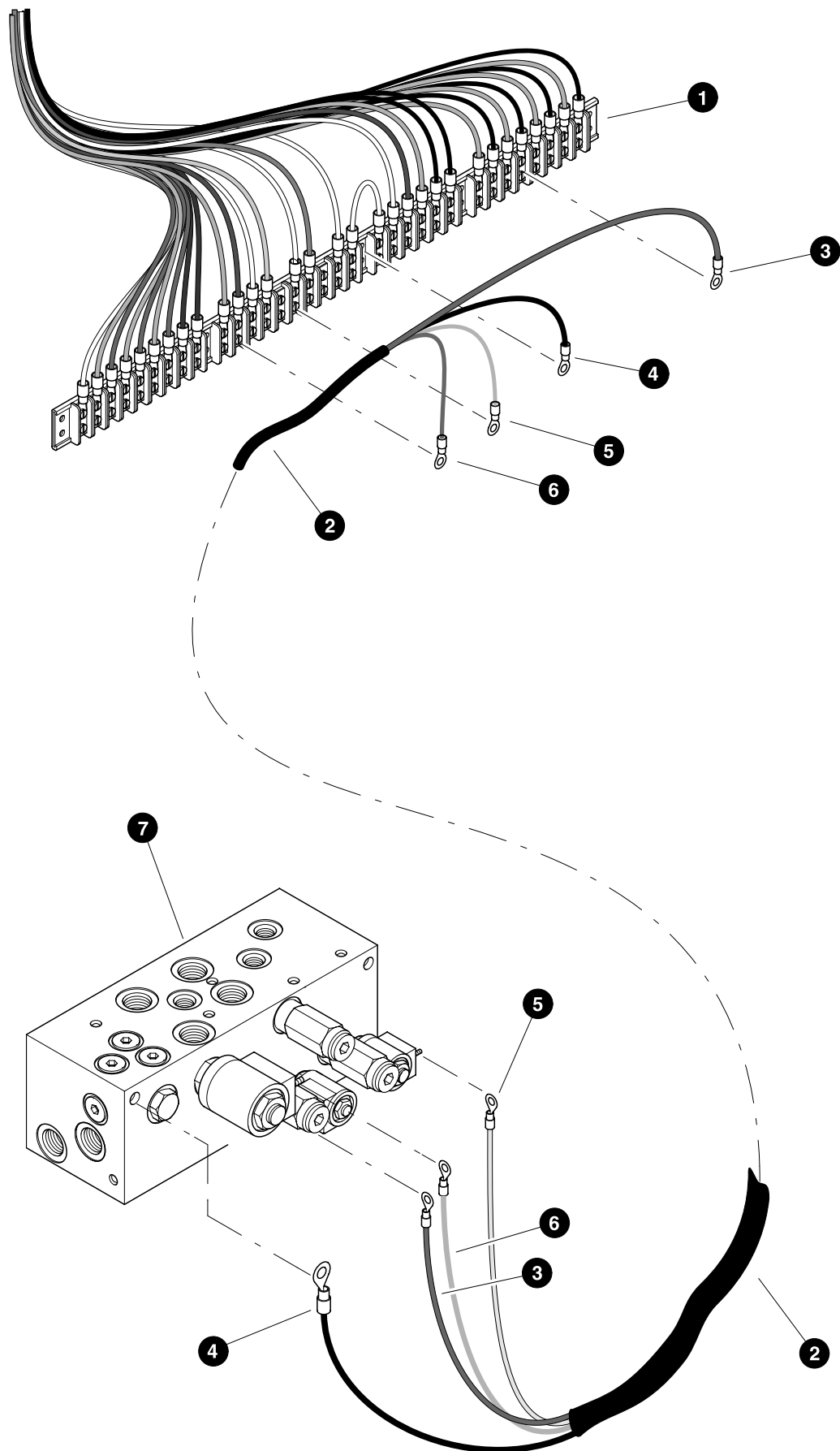


Parts 01373 09/30/99
37.50

PILOT PRESSURE MANIFOLD CONNECTIONS

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	DASH TERMINAL STRIP	J.3.2
2	20015	1		HARNESS, wire - 2-speed shift	
3	REF.	1		2-SPEED SHIFT SIGNAL WIRE (Yellow)	
4	REF.	1		HARNESS GROUND WIRE (Dk. blue)	
5	REF.	1	✓	PILOT PRESSURE MANIFOLD	D.1.4

✓ See referenced page for component or assembly breakdown.

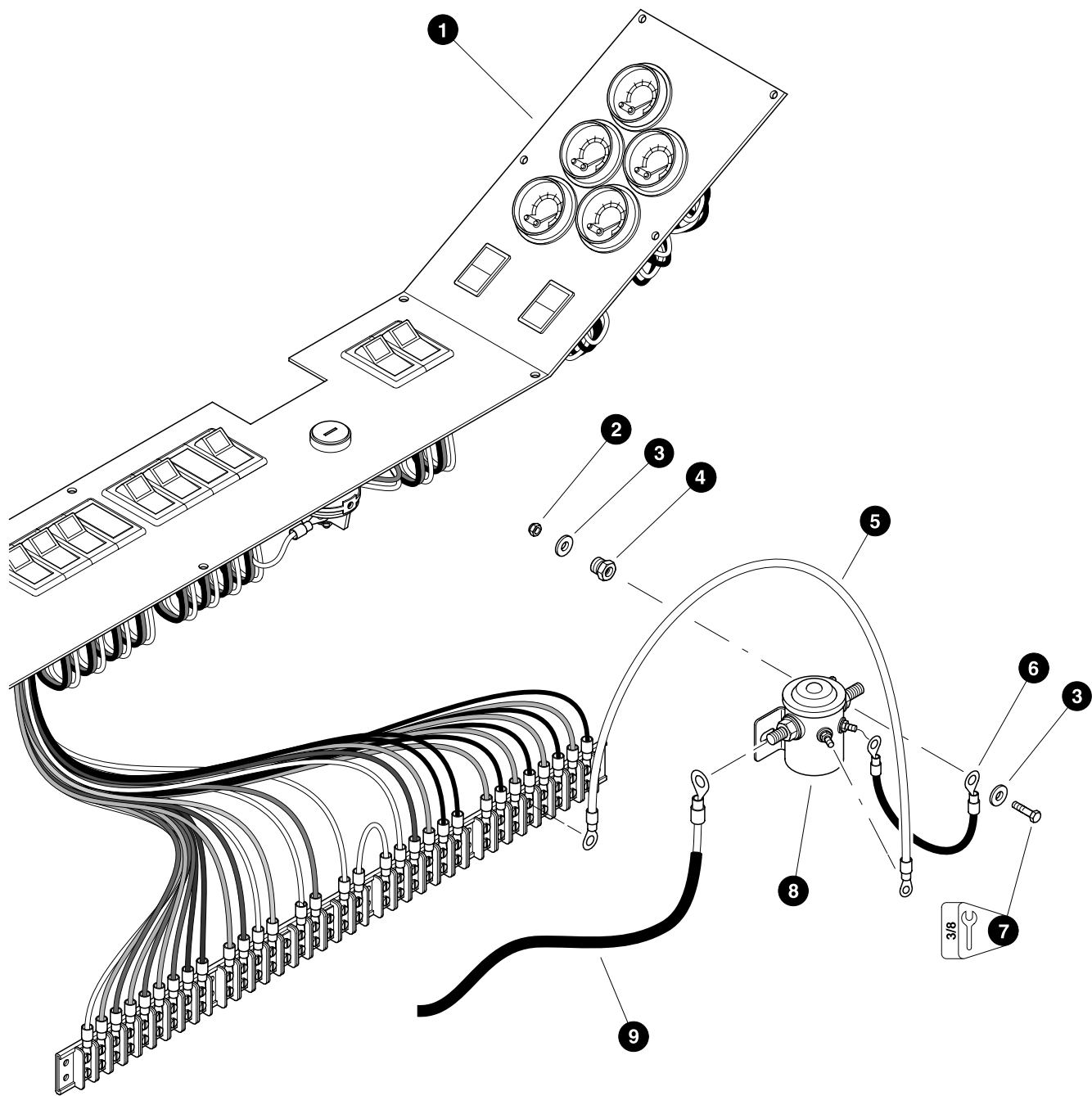


Parts 01377 10/01/99
37.50

MONO BLOCK MANIFOLD CONNECTIONS

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	DASH TERMINAL STRIP	J.3.2
2	19464	1		HARNESS, wire - 2-speed shift	
3	REF.	1		SWING DENTENT SIGNAL (Blue)	
4	REF.	1		GROUND STUD (Black)	
5	REF.	1		PARKING BREAK (Yellow)	
6	REF.	1		PUMP DESTROKE SIGNAL (Green)	
7	REF.	1	✓	MONO BLOCK MANIFOLD	D.1.5

✓ See referenced page for component or assembly breakdown.



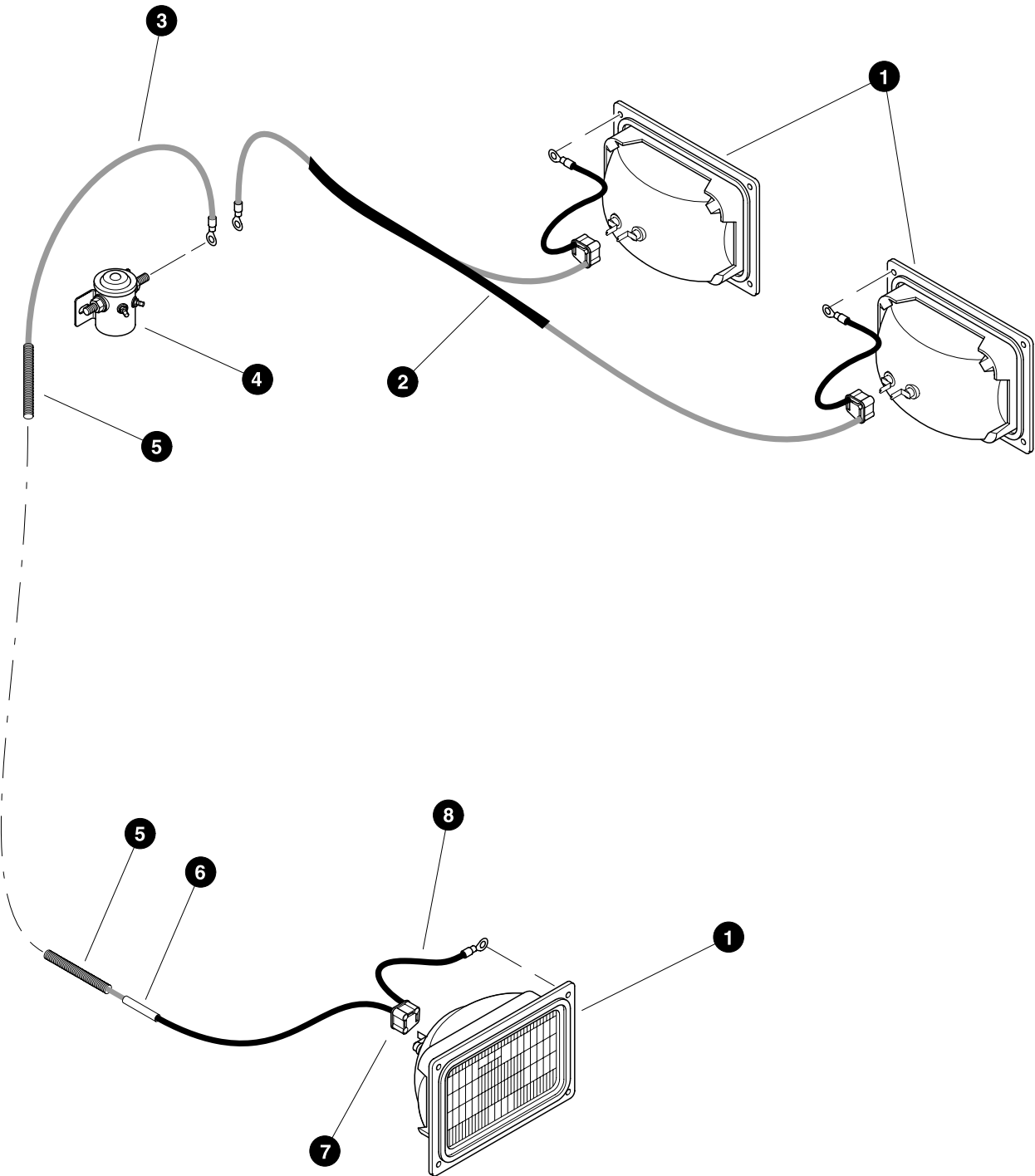
Parts 01374 09/30/99
37.50

HALOGEN WORK LIGHT INSTALLATION

(Relay Installation under Dash Panel)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	DASH PANEL	J.3.2
2	10811	2		NUT, lock - 1/4"	
3	10757	4		WASHER, SAE flat - 1/4"	
4	15574	2		BUSHING, reducer - 5406-4-2 (Used as a spacer)	
5	----	1		WIRE, signal (14 ga. White - relay signal terminal to dash terminal strip)	
6	----	1		WIRE, ground (14 ga. Black - relay ground terminal to relay mounting hardware)	
7	15568	2		BOLT - 1/4" x 2"	
8	16035	1		RELAY, heavy duty - 12V	
9	REF.	1		WIRE, power lead (From cab wire harness)	

✓ See referenced page for component or assembly breakdown.

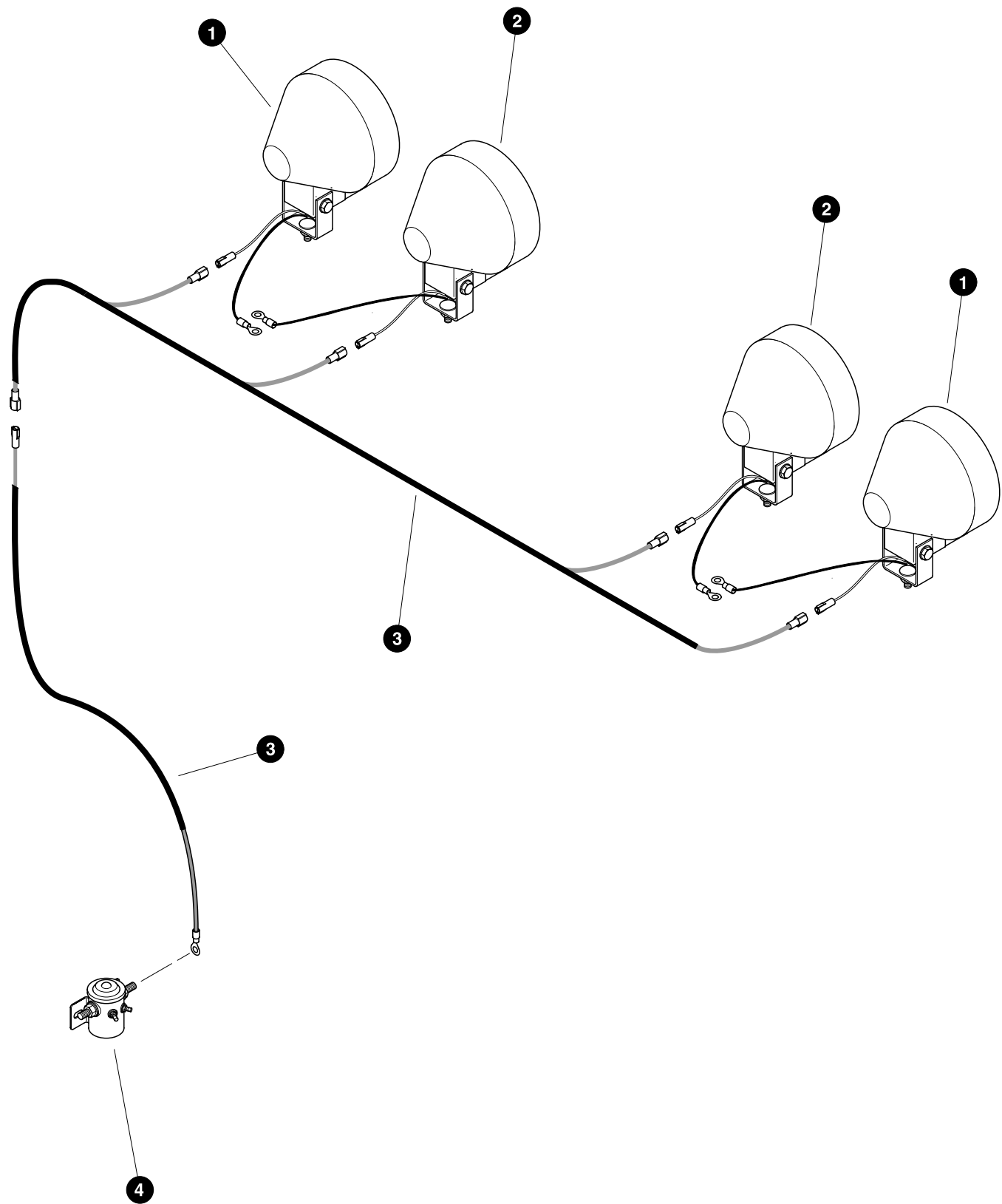


Parts 00895 11/24/98
25.00

HALOGEN WORK LIGHT INSTALLATION (Lower Flush Mount Lights)

REF	PART #	QTY		DESCRIPTION	SEE PAG
1	16044	3		LIGHT, flush mount	
2	18699	1		HARNESS, wiring - lower light	
3	----	1		WIRE, power lead (14 ga. Brown - relay to flush mount light in right side of cab)	
4	REF.	1	✓	RELAY	J.3.10
5	16705	AR	✂	LOOM, wire	
6	----	1		SPLICE, butt (14 ga.)	
7	16041	1		CONNECTOR, headlight	
8	----	1		WIRE, ground (14 ga. Black - flush mount light to light mounting hardware)	

- ✓ See referenced page for component or assembly breakdown.
 ✂ Bulk material - order length required in feet or metres.

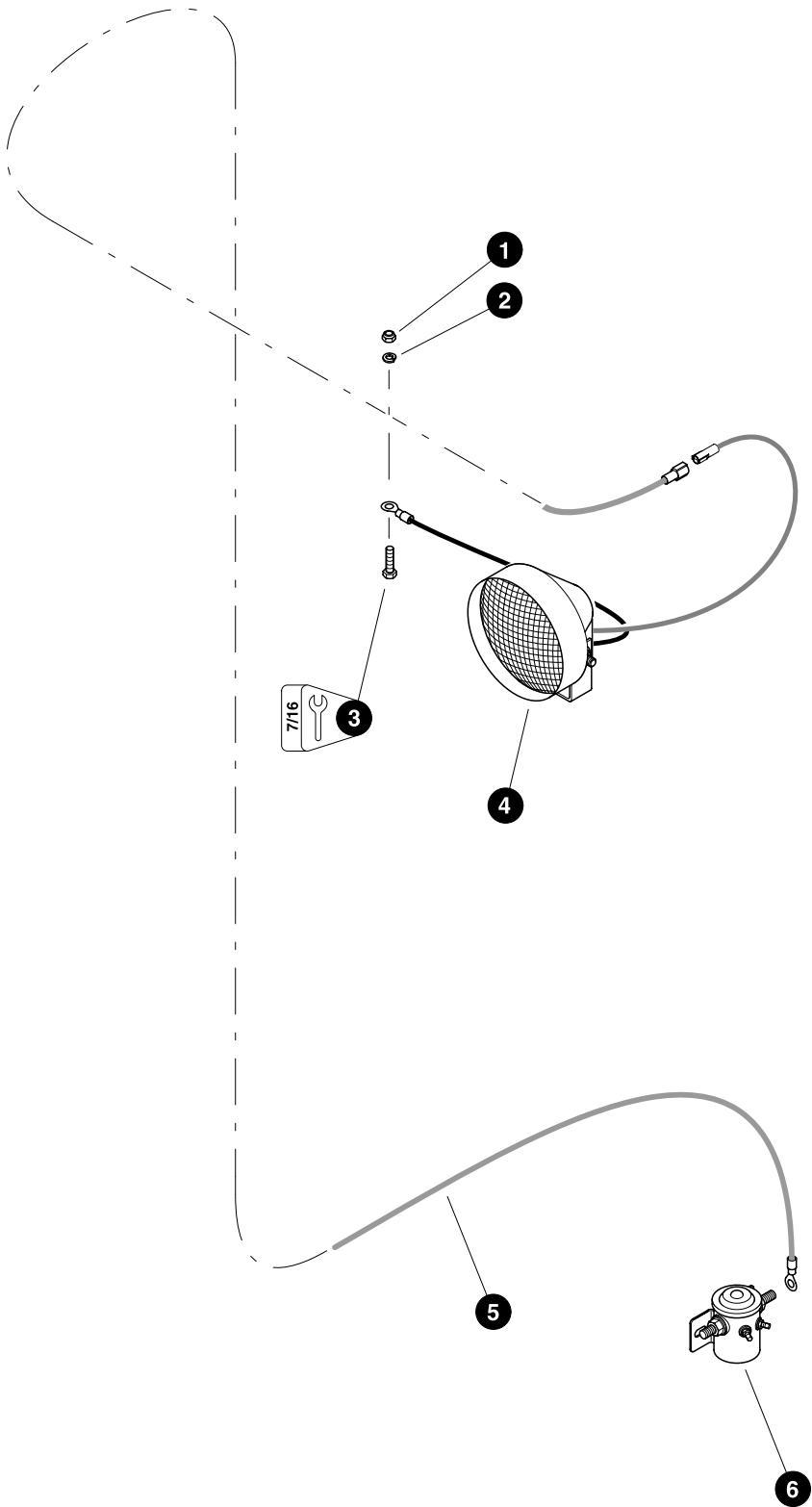


HALOGEN WORK LIGHT INSTALLATION

(Cab Visor Mounted Lights - Round)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	16043	2		LIGHT, spot trapazoidal	
2	16042	2		LIGHT, spot	
3	19581	1		HARNESS, wire - visor light	
4	REF.	1	✓	RELAY	J.3.10

✓ See referenced page for component or assembly breakdown.

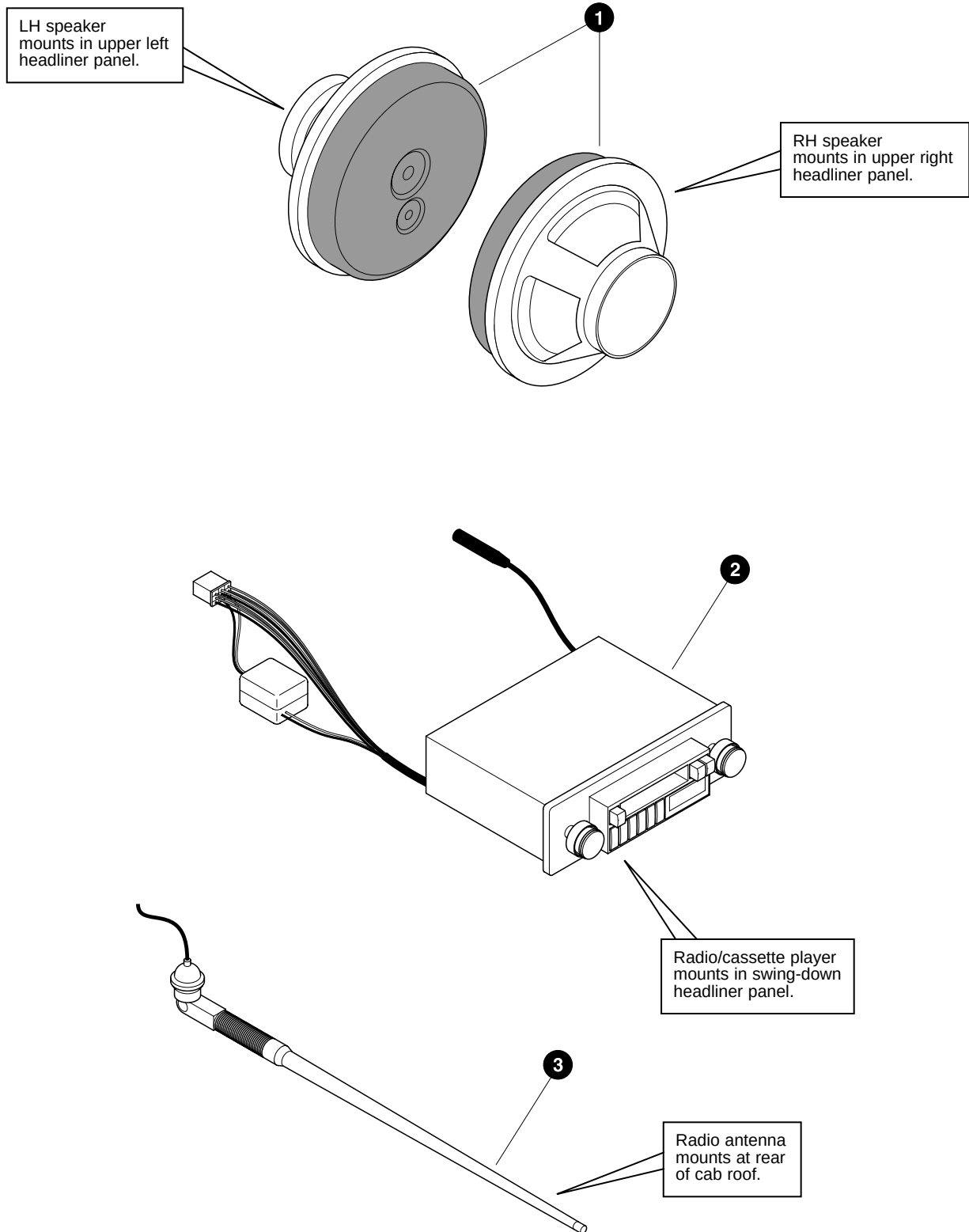


Parts 01376 09/30/99
25.00

HALOGEN WORK LIGHT INSTALLATION (Rear Of Cab)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15509	1		NUT, nylock - 1/4"	
2	10756	1		WASHER, lock - 1/4"	
3	15576	1		BOLT - 1/4" x 1"	
4	16281	1		LIGHT, spot - 4-3/4" diameter	
5	----	1		HARNESS, wire - rear cab light	
6	REF.	1	✓	RELAY	J.3.10

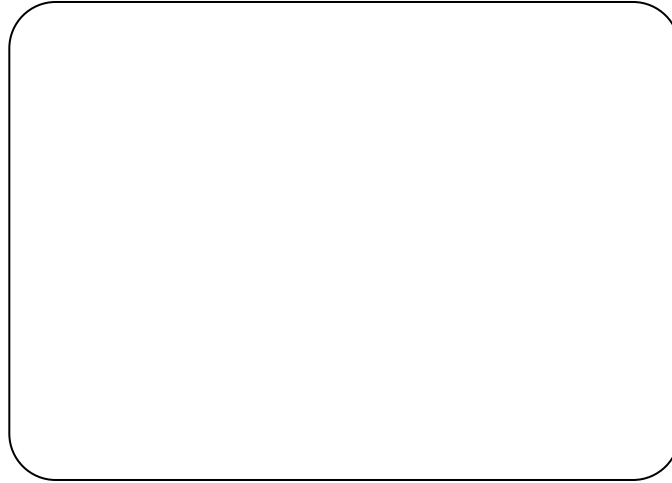
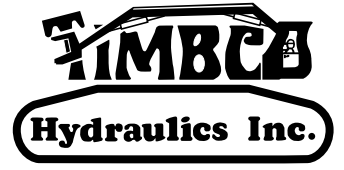
✓ See referenced page for component or assembly breakdown.



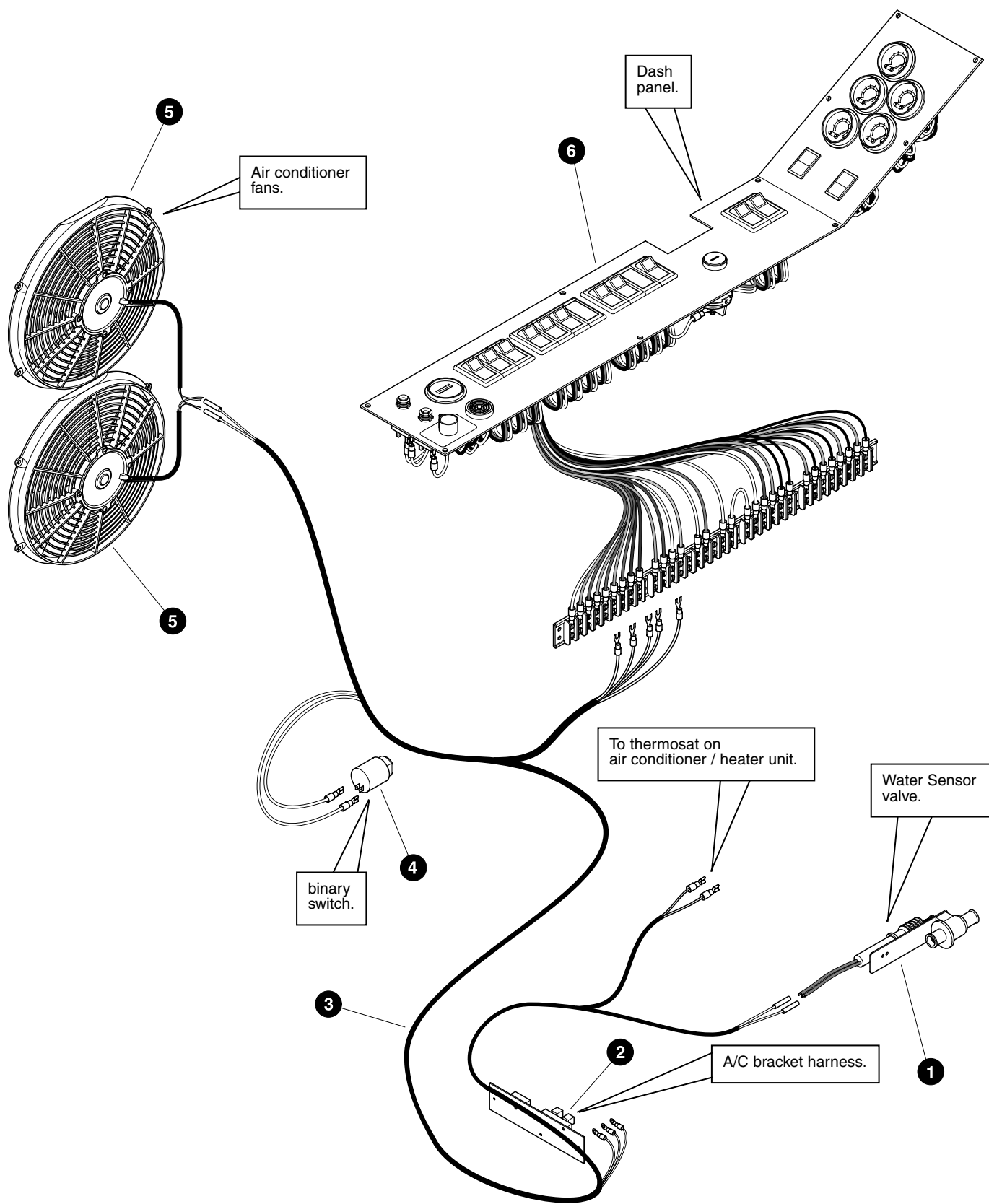
AM/FM RADIO/CASSETTE PLAYER COMPONENTS

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	19968	2	SPEAKER	
2	22395	1	AM/FM RADIO/CASSETTE PLAYER	
3	16966	1	ANTENNA, radio	

Section J.4



***Electrical System -
Air Conditioner / Heater***

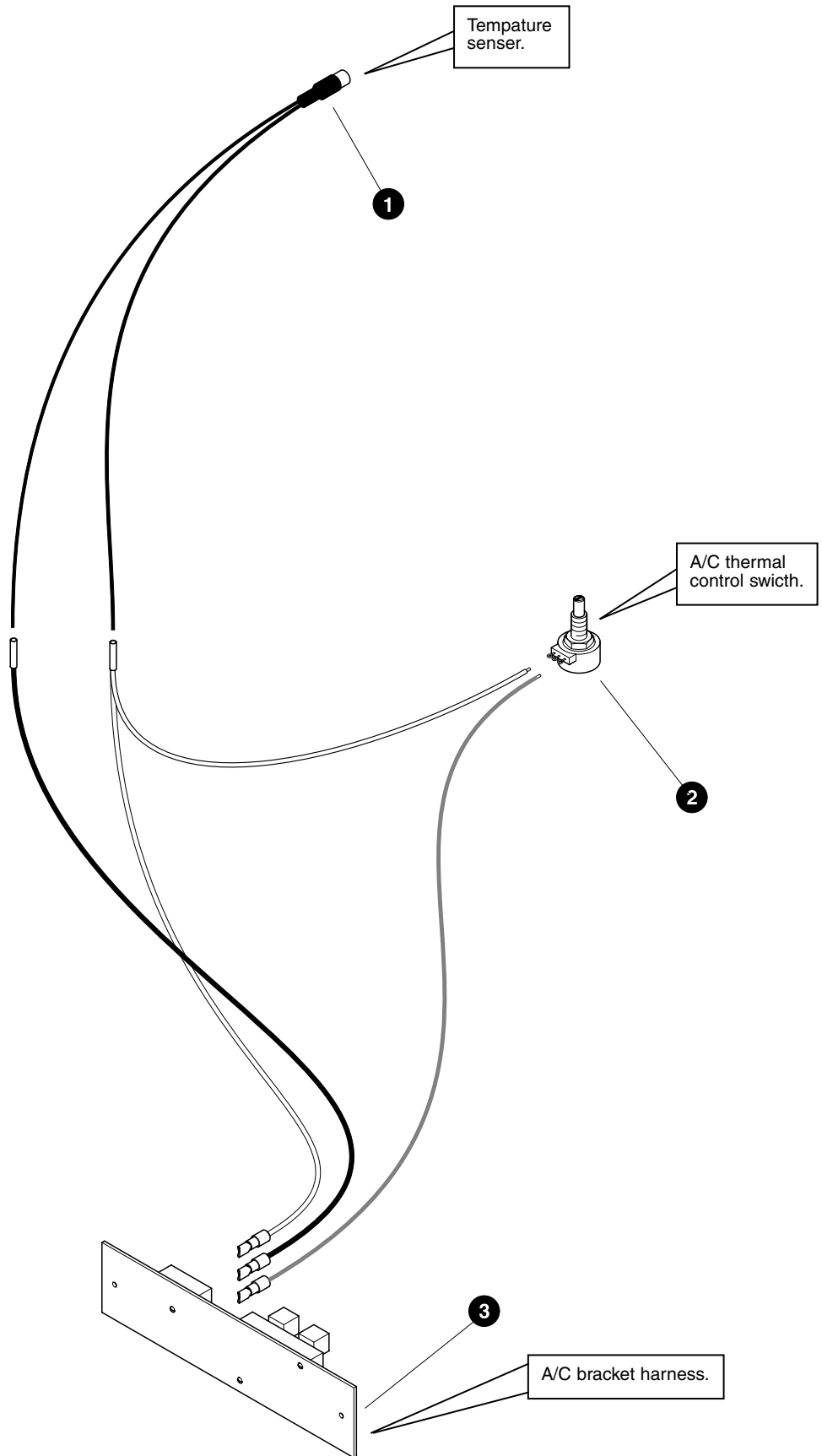


AIR CONDITIONER /HEATER INSTALLATION

(A/C Wire Harness Installation)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20899	1		VALVE, water sensor	
2	REF.	1	✓	A/C BRACKET HARNESS	G.4.3
3	22871	1		HARNESS - A/C	
4	REF.	1	✓	BINARY SWITCH	G.4.14
5	REF.	2	✓	MOTOR / FAN ASSEMBLY	G.4.10
6	REF.	1	✓	DASH PANEL	J.3.2

✓ See referenced page for component or assembly breakdown.



Parts 01468 02/23/2000
25.00

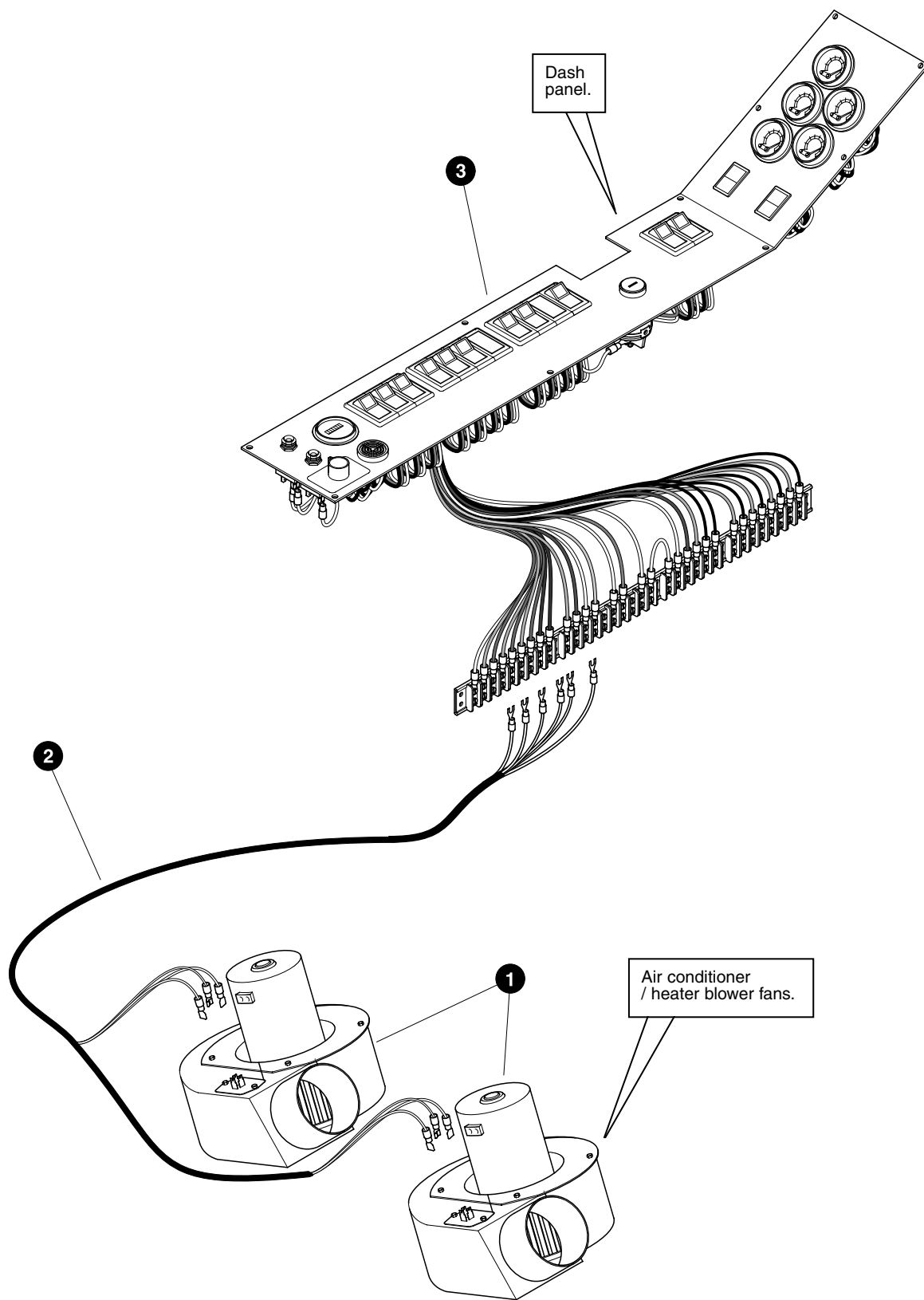
All components shown are mounted in the rear cab.

AIR CONDITIONER WIRE HARNESS CONNECTIONS

(In Cab Roof)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	22869	1		TEMPERATURE CONTROL SWITCH	
2	REF.	1	✓	A/C THERMAL CONTROL SWITCH	J.3.2
3	REF.	1	✓	A/C BRACKET HARNESS	G.4.4

- ☐ Kit or Assembly - includes all items indented underneath.
☒ See referenced page for component or assembly breakdown.



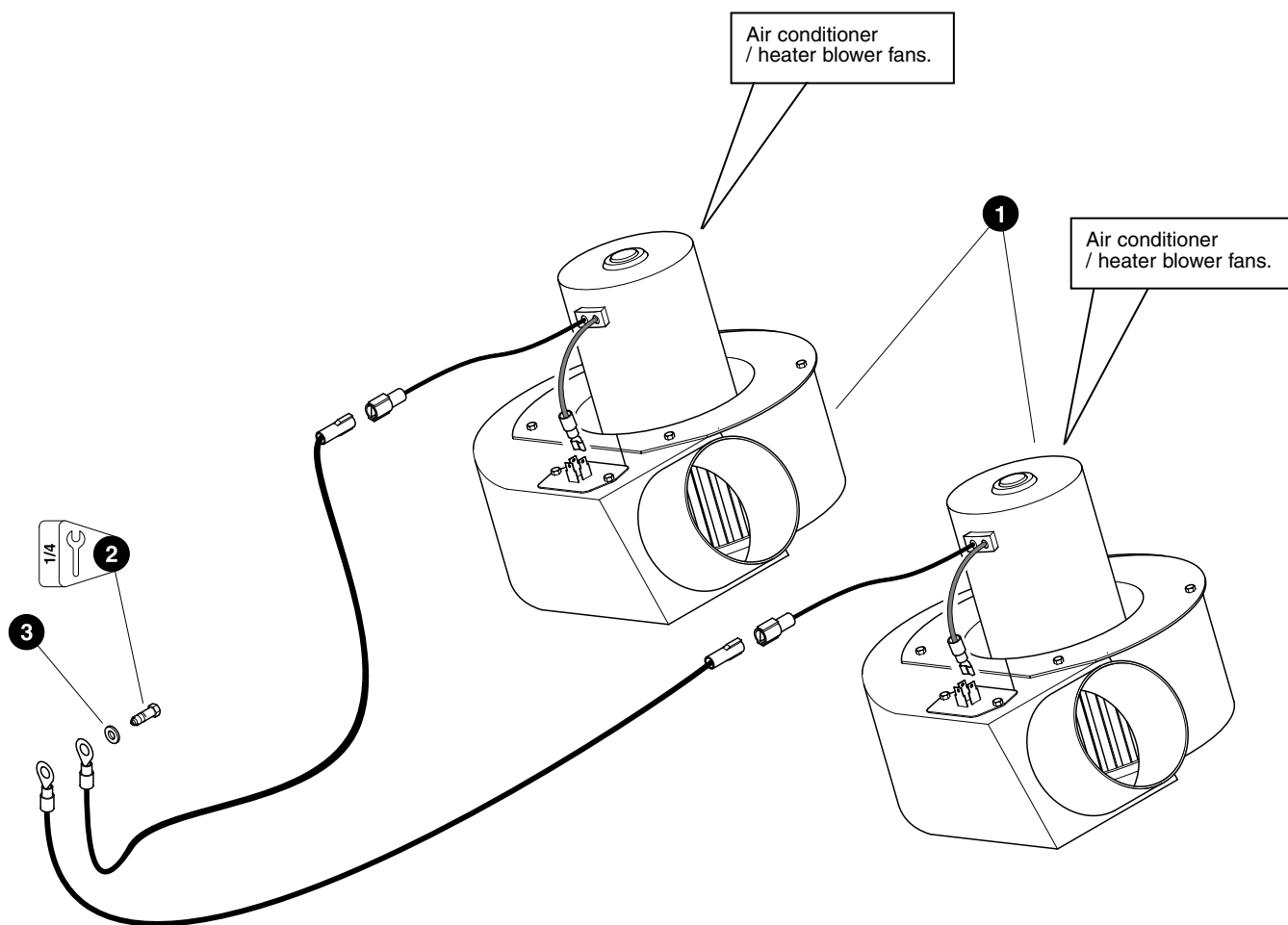
All components shown are mounted in the rear cab.

AIR CONDITIONER WIRE HARNESS CONNECTIONS

(From Dash Panel)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FANS, Air conditioner / heater unit	G.4.2
2	22872	1	✓	HARNESS, wire - Air conditioner / heater unit	
3	REF.	1	✓	DASH PANEL	J.3.2

✓ See referenced page for component or assembly breakdown.



Parts 01469 11/22/99
25.00

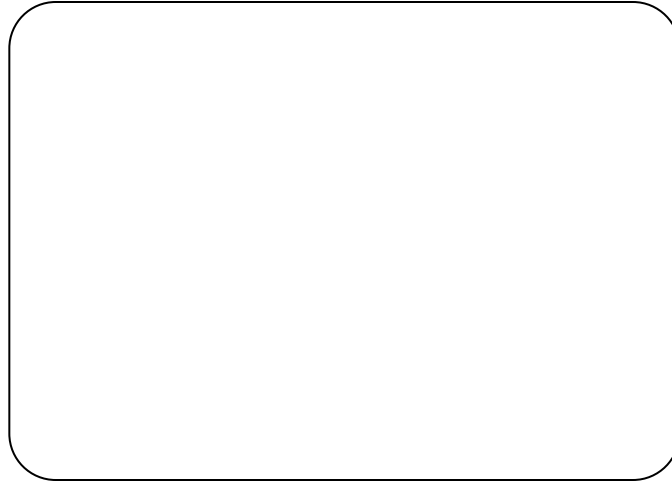
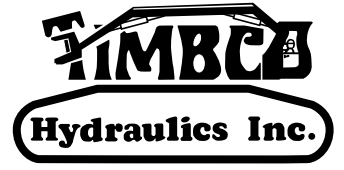
All components shown are
mounted in the rear cab.

AIR CONDITIONER FAN ELECTRICAL CONNECTIONS

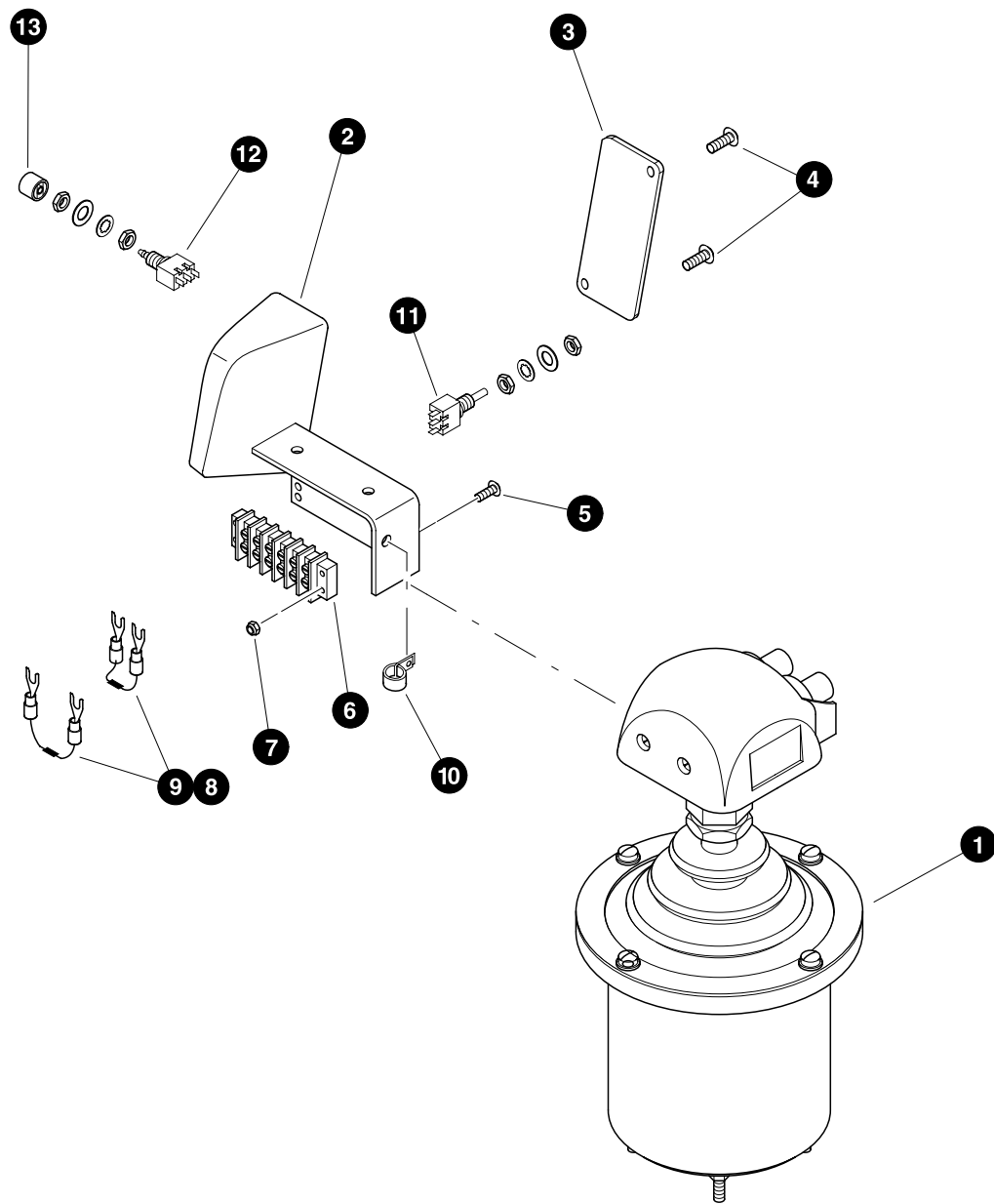
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FANS, Air conditioner / heater unit	G.4.2
2	15669	1		SCREW, machine - 10-24 x 1/2"	
3	16208	1		WASHER, flat #10	

✓ See referenced page for component or assembly breakdown.

Section J.5



Electrical System - Clam-Bunk Controls

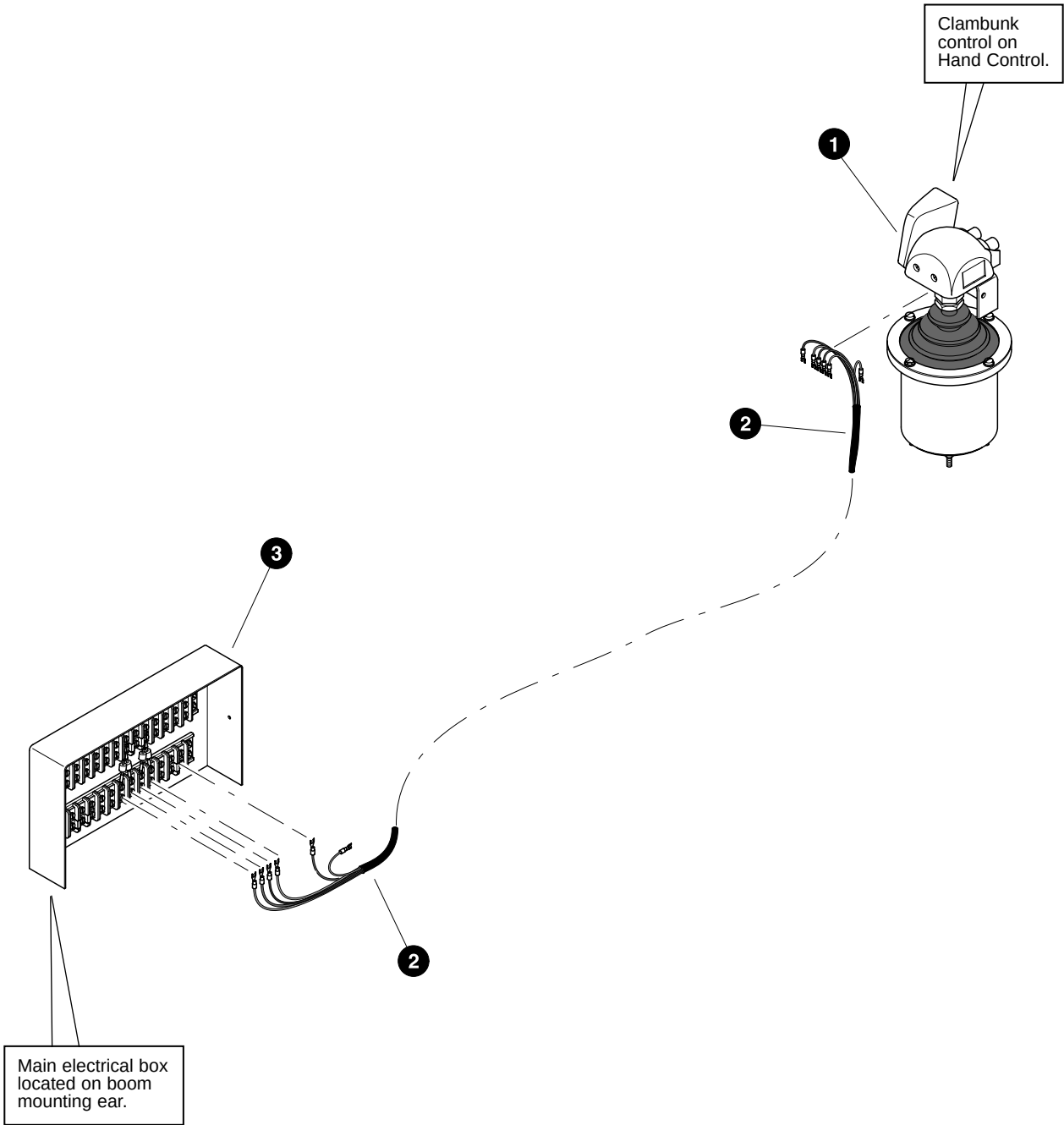


Parts 01498 12/03/99
50.00

ELECTRONIC HAND**(Left and Right Clambunk Hand Controls)**

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	HAND CONTROL, electronic - 3-axis	J.2.4
2	22858	1	☐	BRACKET, switch housing - RH	
	22859	1	☐	BRACKET, switch housing - LH	
3	NSS.	1		PLATE, cover	
4	22862	2		SCREW, machine - #10 - 24 x 1/2"	
5	22863	2		SCREW, machine - #6 - 32 x 1/2"	
6	22860	1		STRIP, terminal	
7	22865	2		NUT, nylock - #6 - 32	
8	22866	1		DIODE, aux pad	
9	22867	1		TERMINAL, spade	
10	22864	1		CLAMP, harness	
11	22861	1	☐	SWITCH, toggle	
12	22484	1	☐	SWITCH, push button	
13	22485	1		CAP, push button switch	

- ✓ See referenced page for component or assembly breakdown.
☐ Kit or Assembly - includes all items indented underneath.

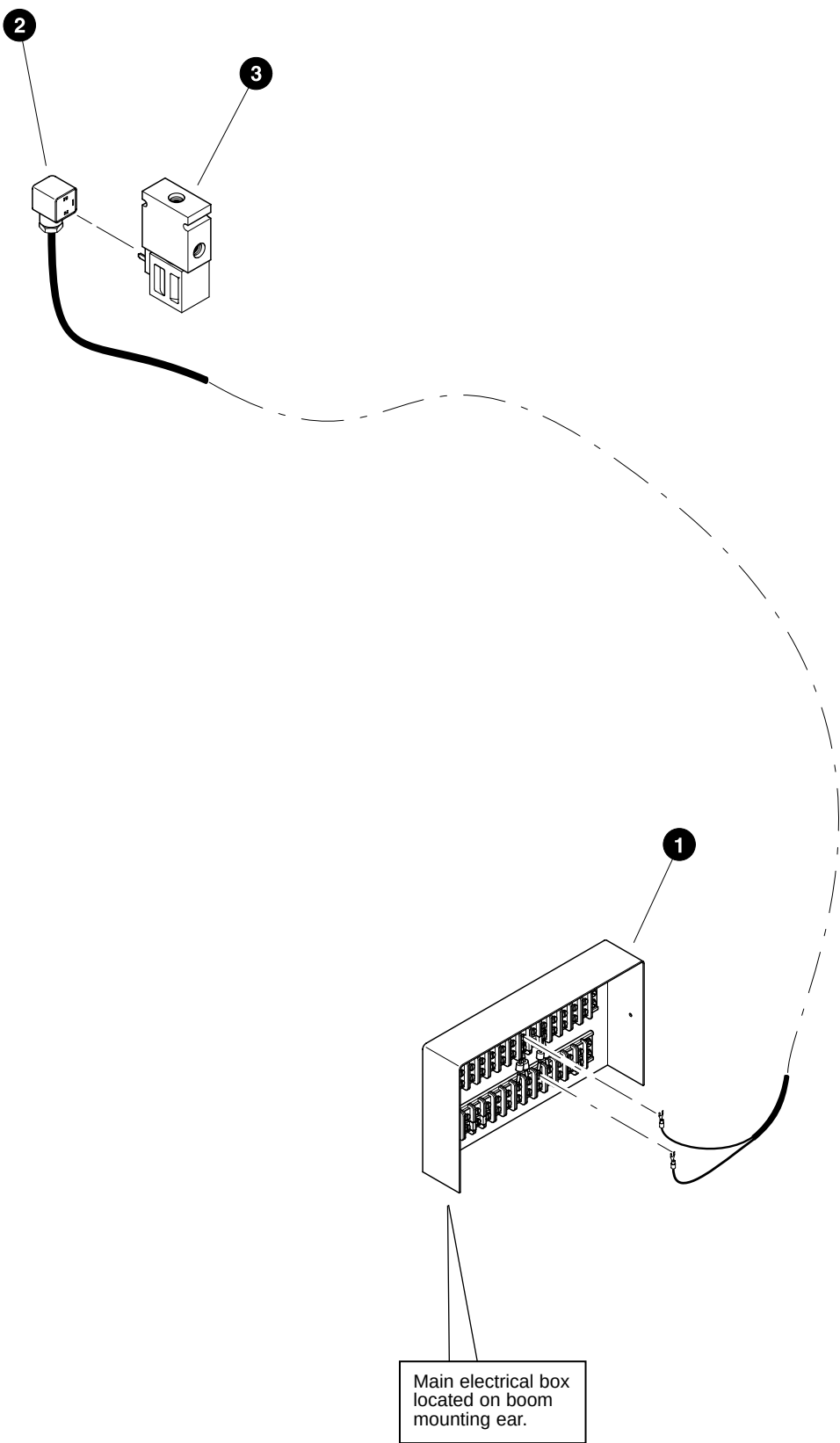


ELECTRICAL CONNECTIONS

(Electronic Joystick to Electrical Terminal Box)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	COMMAND CONTROL BOX - LH & RH	J.5.2
2	-----	1		HARNESS, wire	
3	REF.	1	✓	MAIN ELECTRICAL BOX	J.3.8

- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.

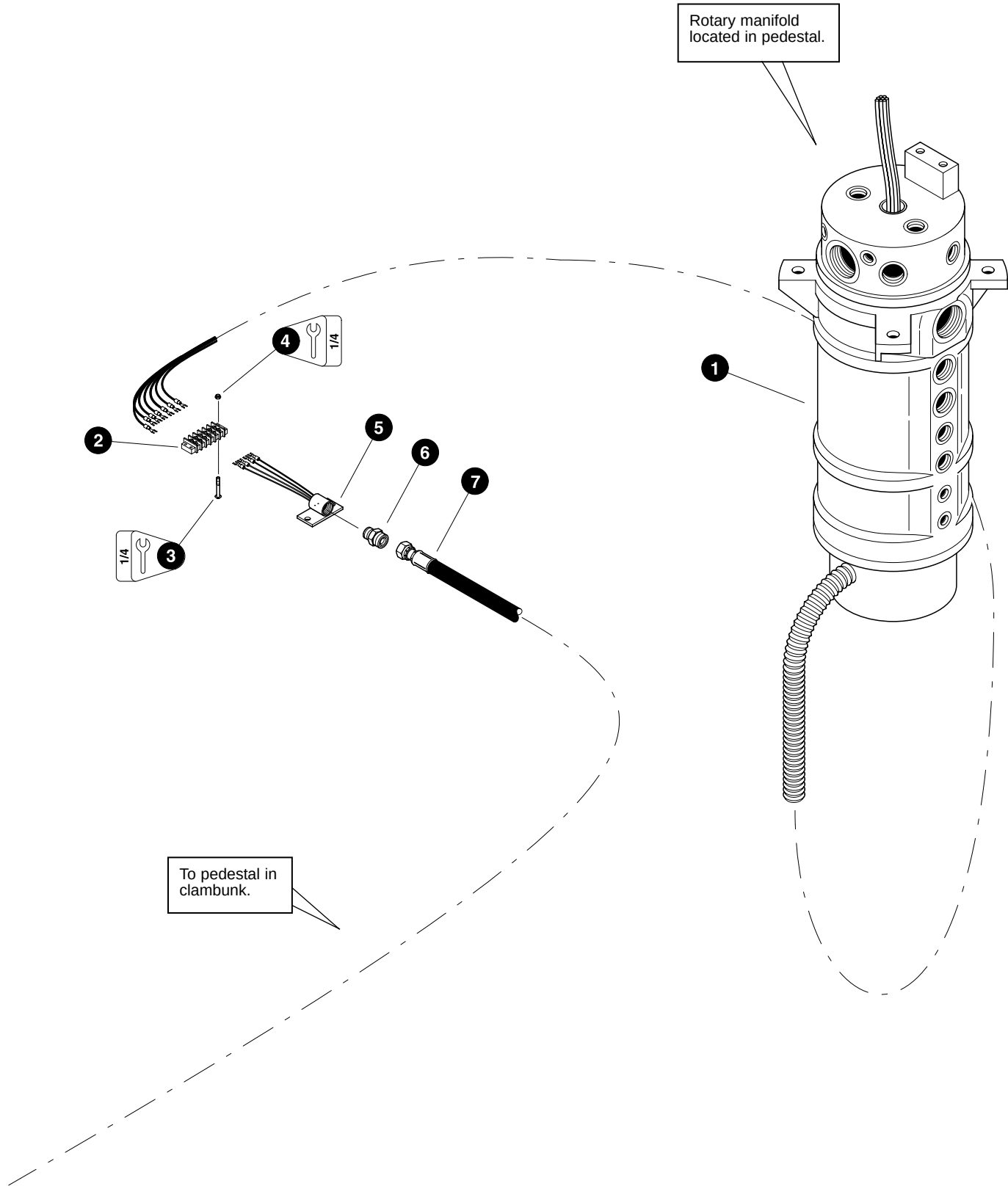


Parts 01707 05/25/2000
25.00

ELECTRICAL CONNECTIONS
(Electrical Terminal Box to 3-Way Valve)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN ELECTRICAL BOX	J.3.8
2	18589	1		HARNESS, wire	
3	REF.	1	✓	3-WAY VALVE	B.4.10

- ✓ See referenced page for component or assembly breakdown.
□ Kit or Assembly - includes all items indented underneath.



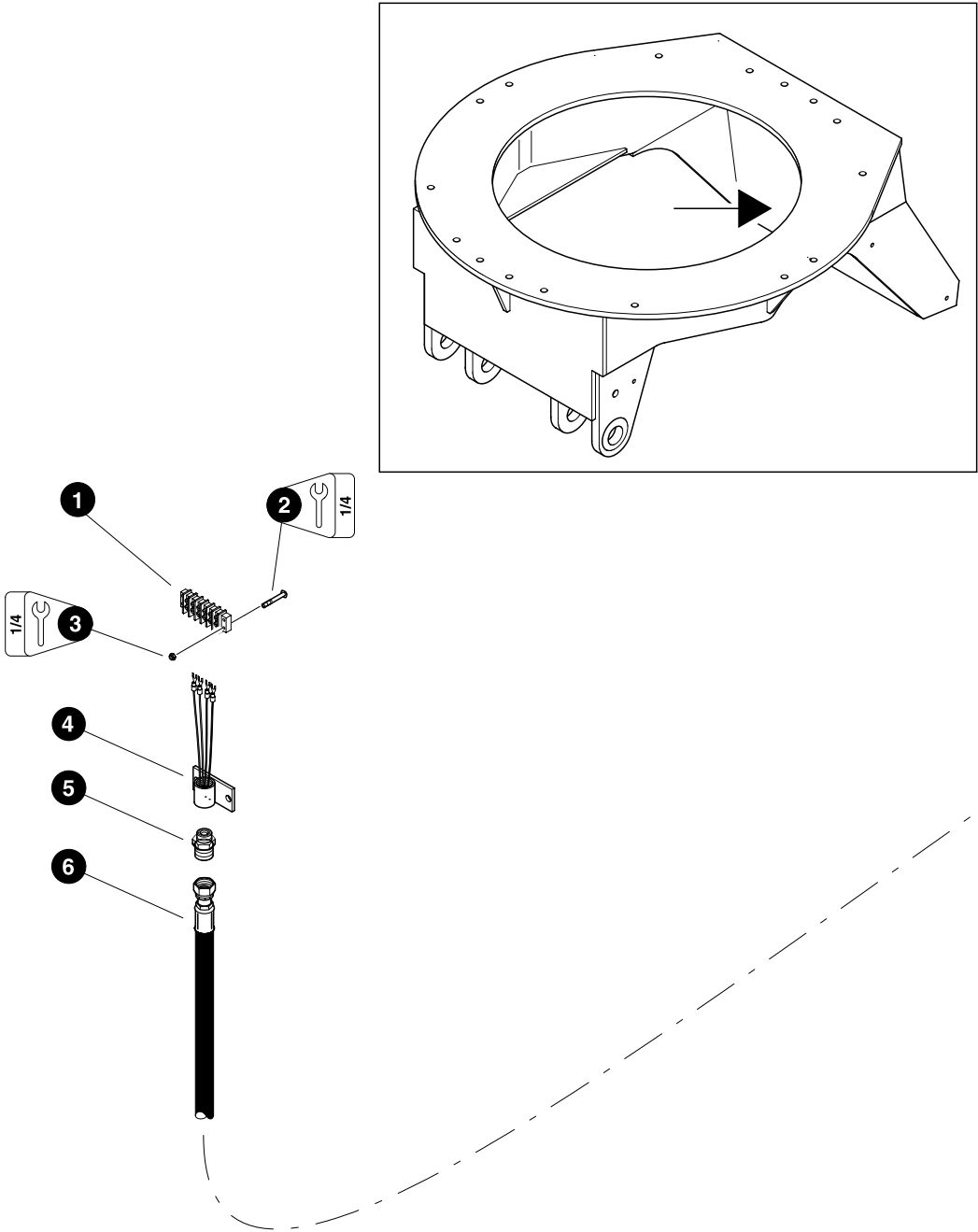
Parts 01382 10/04/99
25.00

ELECTRICAL CONNECTIONS

(Terminal Strip inside Pedestal to Terminal Strip inside Pedestal in Clambunk)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	REF	1	ROTARY MANIFOLD	D.2.2
2	REF	1	HIRSCHMANN CONNECTOR	J.5.8
3	16127	2	SCREW, machine #10-24 x 1-1/4"	
4	16131	2	NUT, nylock #10-24	
5	12222	1	BRACKET, gauge mount	
6	16295	1	CONNECTOR - STR FF2031T - 0604S	
7	20617	1	HOSE ASSEMBLY - 2240-06-060S-060S	

- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.

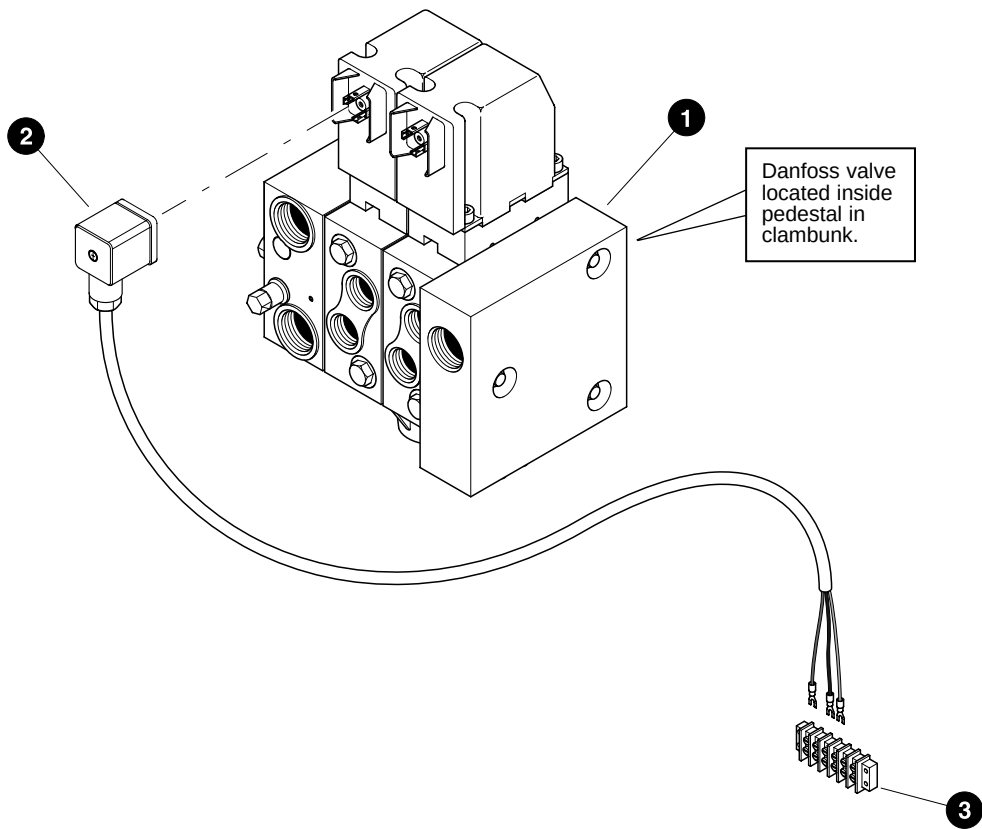
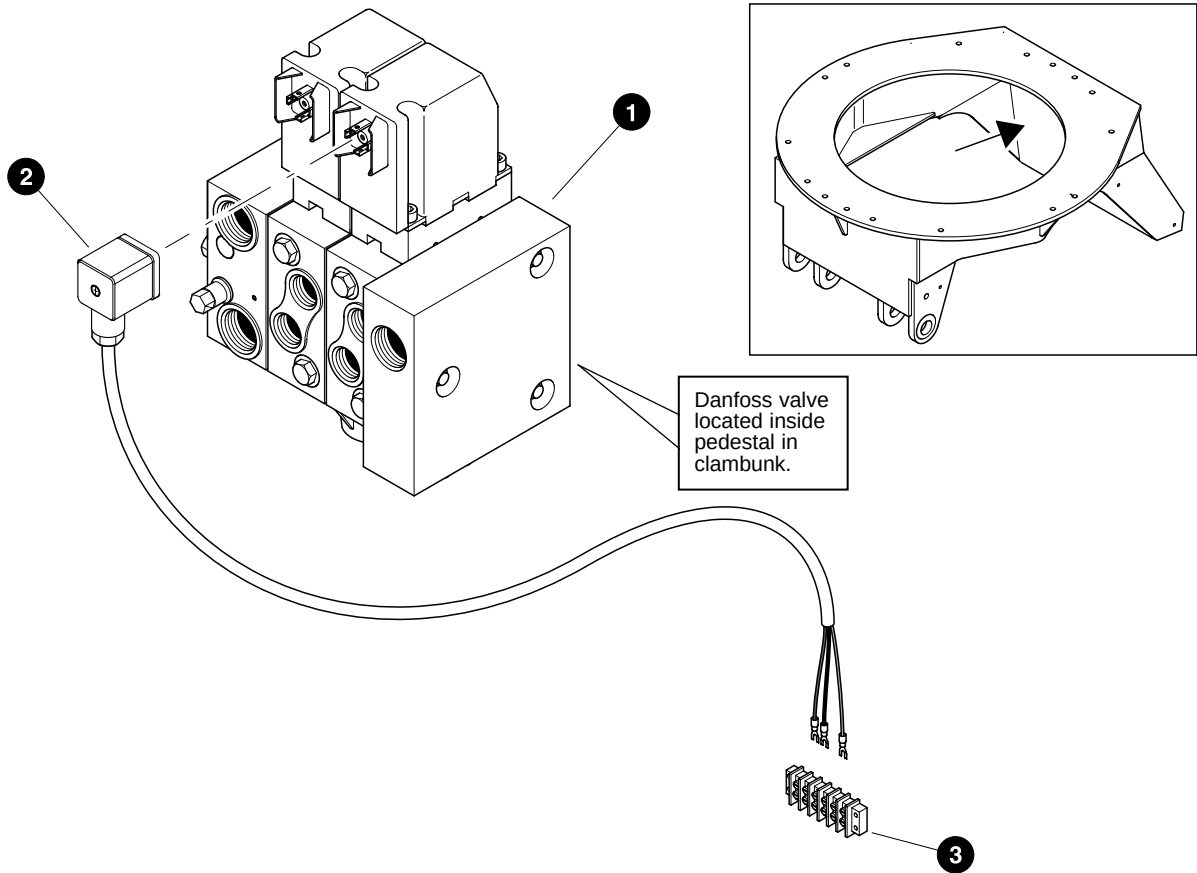


ELECTRICAL CONNECTIONS

(Terminal Strip inside Pedestal in Clambunk)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	REF	1	HIRSCHMANN CONNECTOR	J.5.8
2	16127	2	SCREW, machine #10-24 x 1-1/4"	
3	16131	2	NUT, nylock #10-24	
4	REF	1	GAUGE MOUNT BRACKET	
5	16295	1	CONNECTOR - STR FF2031T - 0604S	
6	20617	1	HOSE ASSEMBLY - 2240-06-060S-060S	

- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.



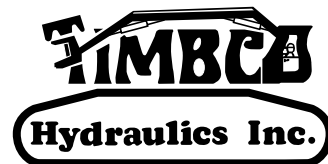
ELECTRICAL CONNECTIONS

(Danfoss Valve to Terminal Strip inside Pedestal in Clambunk)

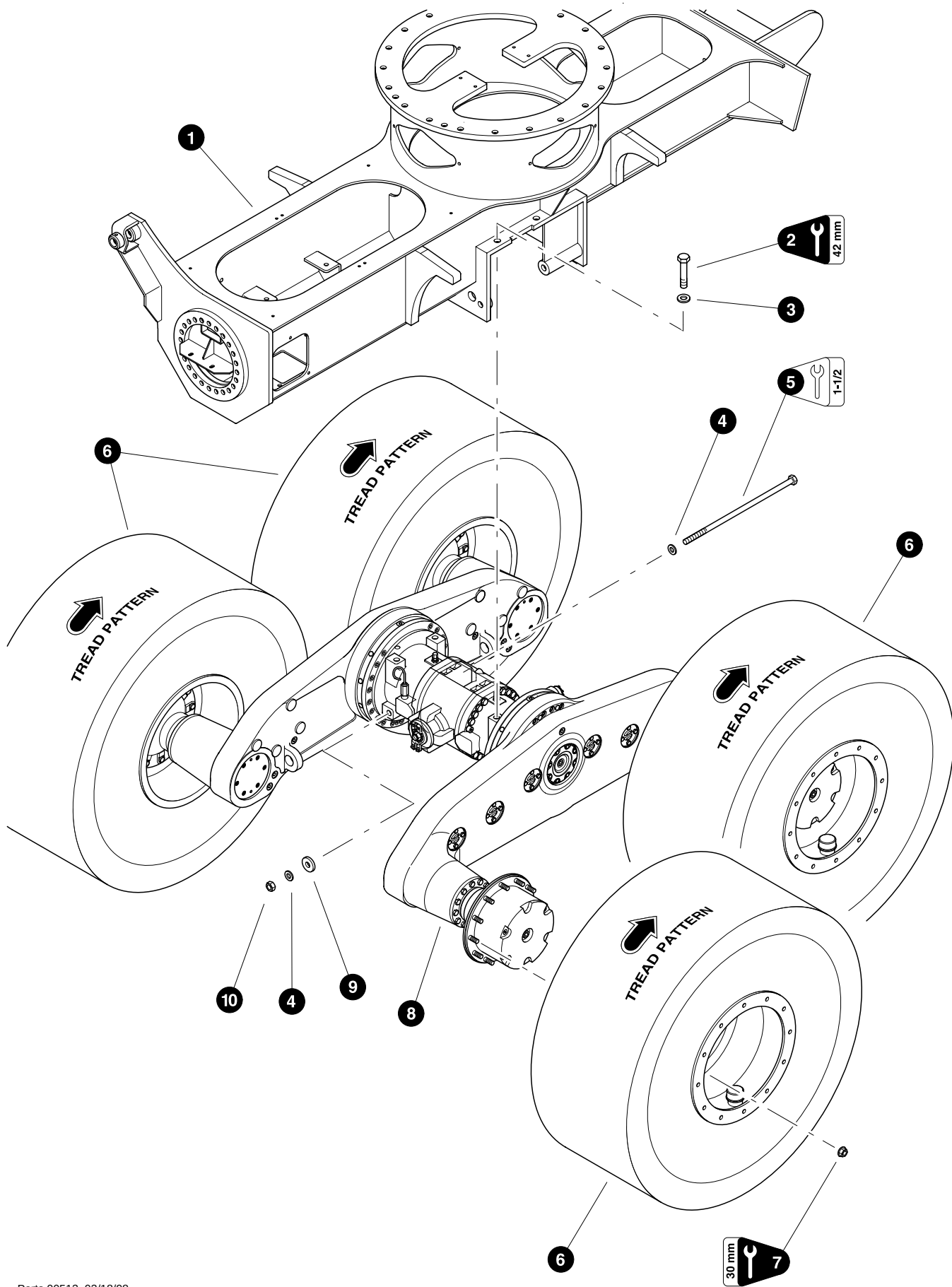
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	DANFOSS VALVE	D.4.2
2	22325	2		CONNECTOR, electrical - hirschmann	
3	REF	1		HIRSCHMANN CONNECTOR	J.5.8

- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.

Section K.1



Drivetrain Components - Installation



Parts 00513 03/18/98
6.25

AXLE INSTALLATION (Front Frame)

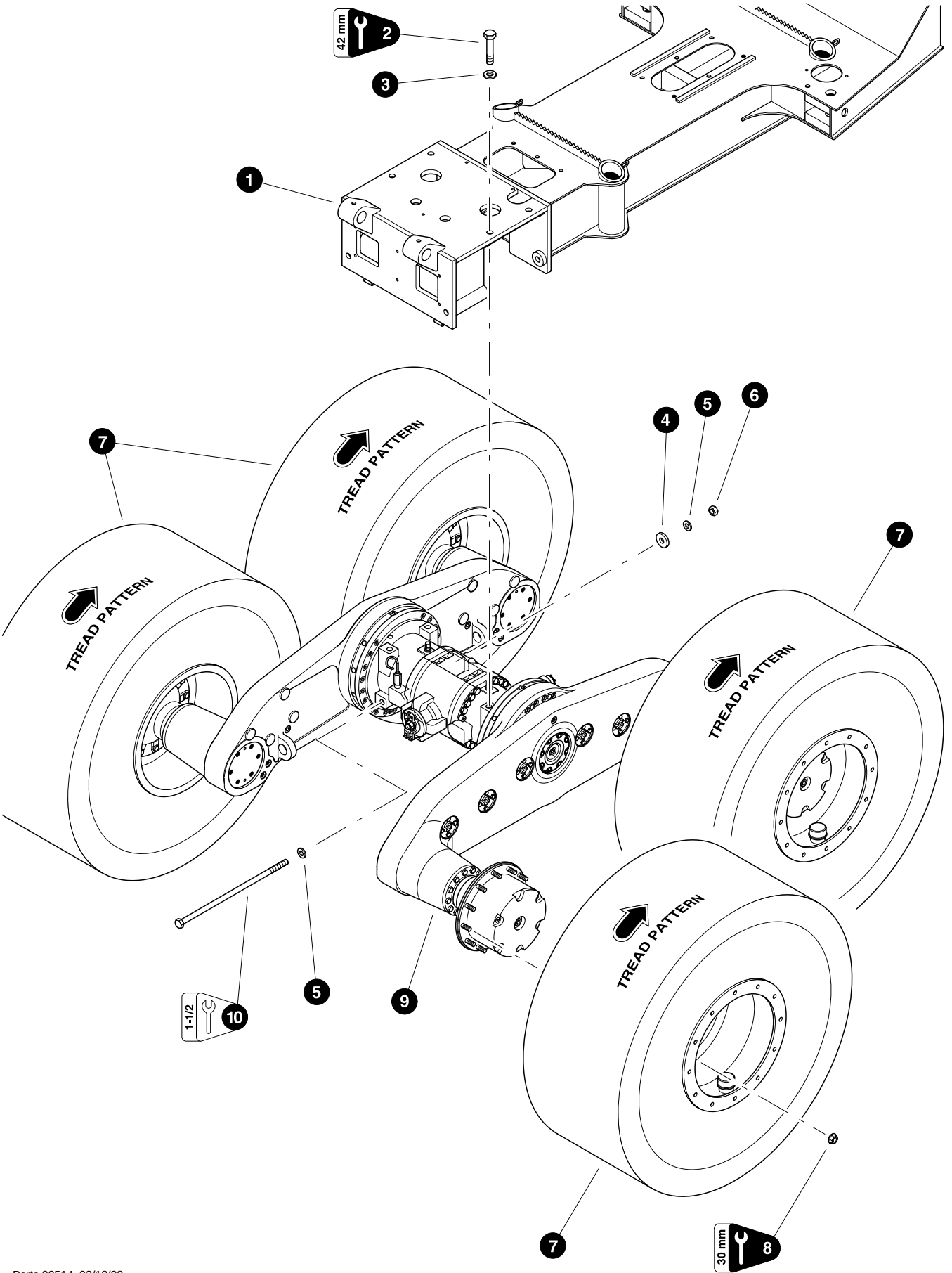
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FRONT FRAME WELDMENT	H.4.2
2	19898	4		BOLT - 27mm-3.0P x 160mm (Torque to 1000 lbs. (1330 Nm))	
3	19899	4		WASHER, hardened flat - 27mm	
4	15579	4		WASHER, SAE flat - 1"	
5	19897	2		BOLT - 1" x 29"	
6	REF.	4		WHEEL ASSEMBLY	K.1.12
7	19361	48		NUT, lug (Torque to 415 lbs. (550 Nm))	
8	REF.	1	℄	FRONT AXLE ASSEMBLY (See Verification Note below)	
	REF.	1		FRONT AXLE ASSEMBLY (See Verification Note below)	Blue D
9	10734	2		WASHER, burned	
10	18253	2		NUT, lock - 1"	

✓ See referenced page for component or assembly breakdown.

℄ Contact your TIMBCO dealer for additional information.

Verification Note:

There are two types of axle assemblies used on machines PDN# 070FWD and above, the original long-beam axles and newer short-beam axles. Measure the distance between the bogie centers to identify the axles. Long-beam axles have a bogie center distance of 74-1/2". Short-beam axles have a bogie center distance of 66-1/2".



Parts 00514 03/18/98
6.25

AXLE INSTALLATION (Rear Frame)

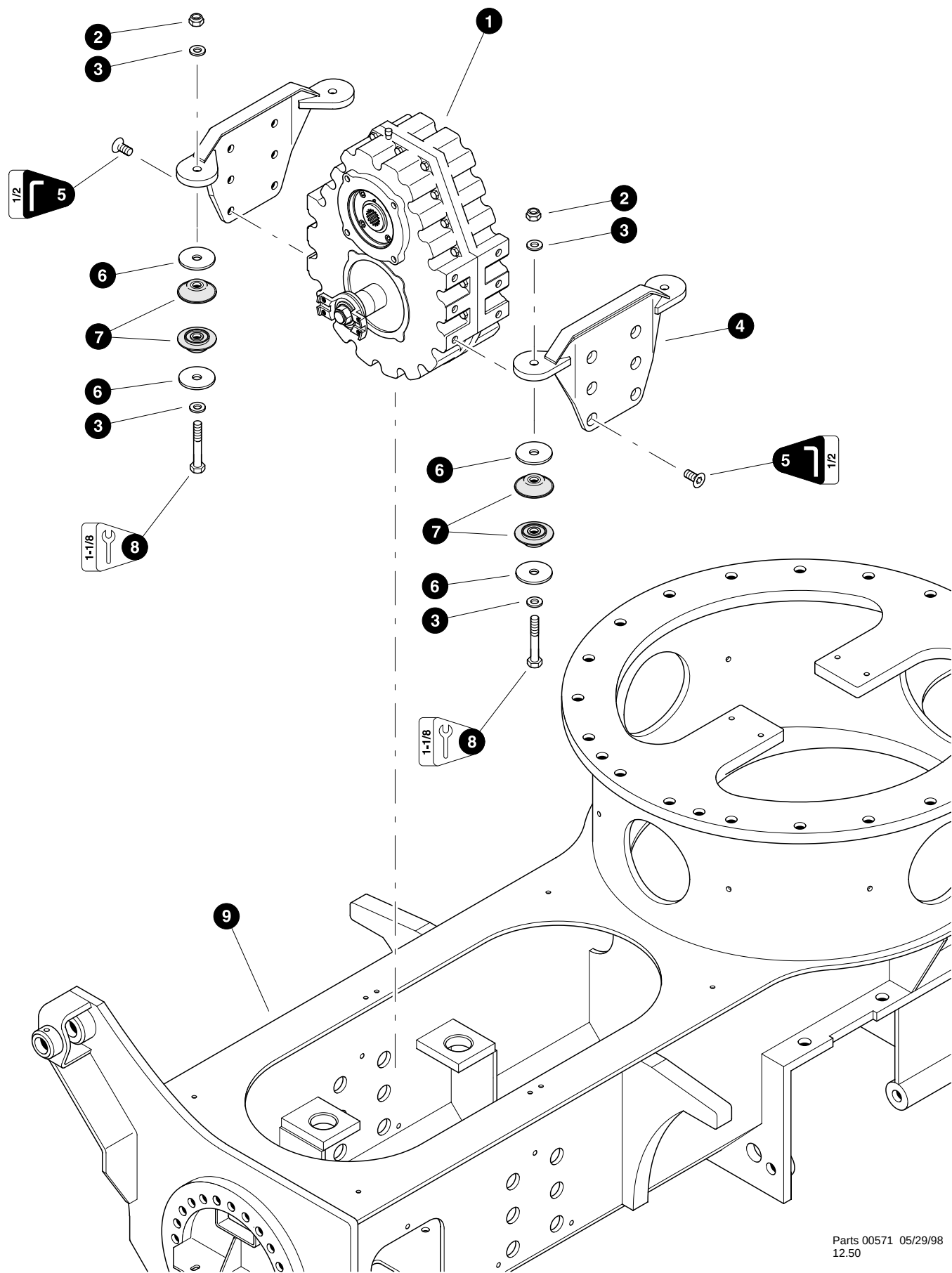
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	REAR FRAME WELDMENT	H.5.2
2	19898	4		BOLT - 27mm-3.0P x 160mm (Torque to 1000 lbs. (1330 Nm))	
3	19899	4		WASHER, hardened flat - 27mm	
4	10734	2		WASHER, burned	
5	15579	4		WASHER, SAE flat - 1"	
6	18253	2		NUT, lock - 1"	
7	REF.	4		WHEEL ASSEMBLY	K.1.12
8	19361	48		NUT, lug (Torque to 415 lbs. (550 Nm))	
9	REF.	1	ℓ	REAR AXLE ASSEMBLY (See Verification Note below)	
	REF.	1		REAR AXLE ASSEMBLY (See Verification Note below)	Blue E
10	19897	2		BOLT - 1" x 29"	

✓ See referenced page for component or assembly breakdown.

ℓ Contact your TIMBCO dealer for additional information.

Verification Note:

There are two types of axle assemblies used on machines PDN# 070FWD and above, the original long-beam axles and newer short-beam axles. Measure the distance between the bogie centers to identify the axles. Long-beam axles have a bogie center distance of 74-1/2". Short-beam axles have a bogie center distance of 66-1/2".



Parts 00571 05/29/98
12.50

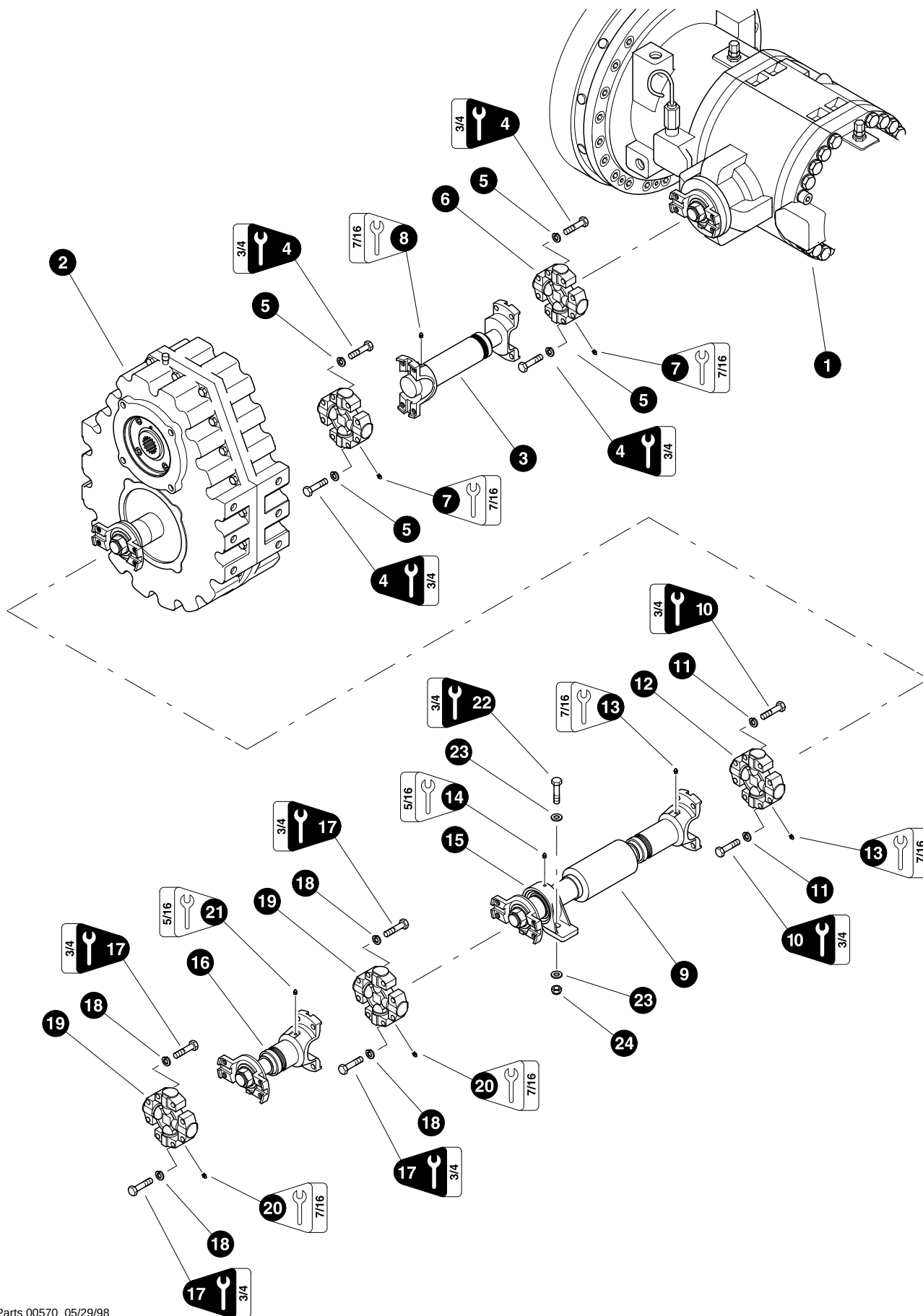
TRANSFER CASE INSTALLATION (Superior)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	℄	TRANSFER CASE	
2	10817	4		NUT, lock - 3/4"	
3	15550	8		WASHER, SAE flat - 3/4"	
4	80395	2		BRACKET, gearbox mounting	
5	20968	12		BOLT, flat head socket - 3/4" x 1-1/4"	
				(Torque to 300 ft.lbs. (400 Nm)) (See note below)	
6	17918	8		WASHER, isolator mount	
7	17904	8		ISOLATOR	
9	10844	4		BOLT - 3/4" x 5"	
9	REF.	1	✓	FRONT FRAME WELDMENT	H.4.2

- ℄ Contact your TIMBCO dealer for additional information.
 ✓ See referenced page for component or assembly breakdown.

Note:

Use Loctite 242 (blue) during installation.



Parts 00570 05/29/98
12.50

DRIVE SHAFT INSTALLATION

(Front Frame & Articulation Joint - Superior Transfer Case)

(Used on machines PDN# 109FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FRONT AXLE ASSEMBLY	Blue D
2	REF.	1	⌘	TRANSFER CASE (See note #1 below)	
--	22154	1	☐	DRIVE SHAFT ASSEMBLY - COMPLETE	
3	19895-1	1	☐	DRIVE SHAFT (Transfer case to front axle)	
4	20662	16		BOLT - 1/2" x 2-1/4" NF (See note #1 below)	
				(Torque to 115 lbs. (155 Nm))	
5	10710	16		WASHER, lock - 1/2"	
6	20677	2		U-JOINT, driveshaft	
7	10704	2		FITTING, grease - 1/8" pipe thread	
8	18420	1		FITTING, grease - 1/4-28"	
9	20966-2	1	☐	DRIVE SHAFT (Transfer case to articulation joint)	
10	20662	8		BOLT - 1/2" x 2-1/4" NF (See note #1 below)	
				(Torque to 115 lbs. (155 Nm))	
11	10710	8		WASHER, lock - 1/2"	
12	20677	1		U-JOINT, driveshaft	
13	10704	2		FITTING, grease - 1/8" pipe thread	
14	18420	1		FITTING, grease - 1/4-28"	
15	19383	1		BEARING, pillow block	
16	19895-3	1	☐	DRIVE SHAFT (Articulation joint)	
17	20662	16		BOLT - 1/2" x 2-1/4" NF (See note #1 below)	
				(Torque to 115 lbs. (155 Nm))	
18	10710	16		WASHER, lock - 1/2"	
19	20677	2		U-JOINT, driveshaft	
21	10704	2		FITTING, grease - 1/8" pipe thread	
21	18420	1		FITTING, grease - 1/4-28"	
22	10736	2		BOLT - 1/2" x 2" (See note #2 below)	
				(Torque to 110 lbs. (135 Nm))	
23	15534	4		WASHER, SAE flat - 1/2"	
24	10815	2		NUT, lock - 1/2"	

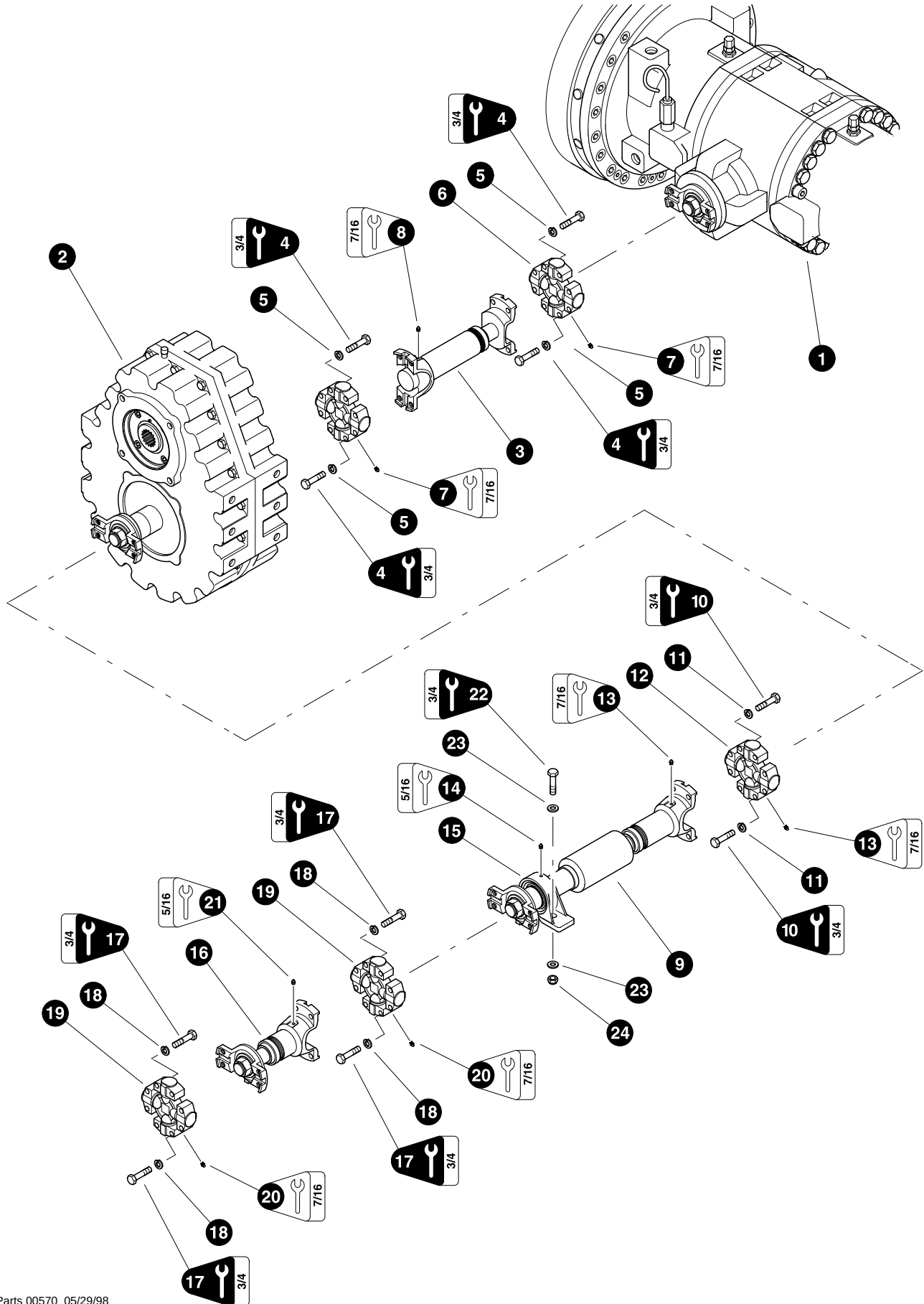
- ⌘ Contact your TIMBCO dealer for additional information.
- ✓ See referenced page for component or assembly breakdown.
- ☐ Kit or Assembly - includes all items indented underneath.

Note #1:

Use Loctite 242 (blue) during installation.

Note #2:

Use Loctite 271 (red) during installation.



Parts 00570 05/29/98
12.50

DRIVE SHAFT INSTALLATION

(Front Frame & Articulation Joint - Superior Transfer Case)

(Used on machines PDN# 110FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FRONT AXLE ASSEMBLY	Blue D
2	REF.	1	℄	TRANSFER CASE (See note #1 below)	
--	22855	1	☐	DRIVE SHAFT ASSEMBLY - COMPLETE	
3	19895-1	1	☐	DRIVE SHAFT (Transfer case to front axle)	
4	20662	16		BOLT - 1/2" x 2-1/4" NF (See note #1 below)	
				(Torque to 115 lbs. (155 Nm))	
5	10710	16		WASHER, lock - 1/2"	
6	20677	2		U-JOINT, driveshaft	
7	10704	2		FITTING, grease - 1/8" pipe thread	
8	18420	1		FITTING, grease - 1/4-28"	
9	20966-2	1	☐	DRIVE SHAFT (Transfer case to articulation joint)	
10	20662	8		BOLT - 1/2" x 2-1/4" NF (See note #1 below)	
				(Torque to 115 lbs. (155 Nm))	
11	10710	8		WASHER, lock - 1/2"	
12	20677	1		U-JOINT, driveshaft	
13	10704	2		FITTING, grease - 1/8" pipe thread	
14	18420	1		FITTING, grease - 1/4-28"	
15	19383	1		BEARING, pillow block	
16	19895-3	1	☐	DRIVE SHAFT (Articulation joint)	
17	20662	16		BOLT - 1/2" x 2-1/4" NF (See note #1 below)	
				(Torque to 115 lbs. (155 Nm))	
18	10710	16		WASHER, lock - 1/2"	
19	20677	2		U-JOINT, driveshaft	
21	10704	2		FITTING, grease - 1/8" pipe thread	
21	18420	1		FITTING, grease - 1/4-28"	
22	10736	2		BOLT - 1/2" x 2" (See note #2 below)	
				(Torque to 110 lbs. (135 Nm))	
23	15534	4		WASHER, SAE flat - 1/2"	
24	10815	2		NUT, lock - 1/2"	

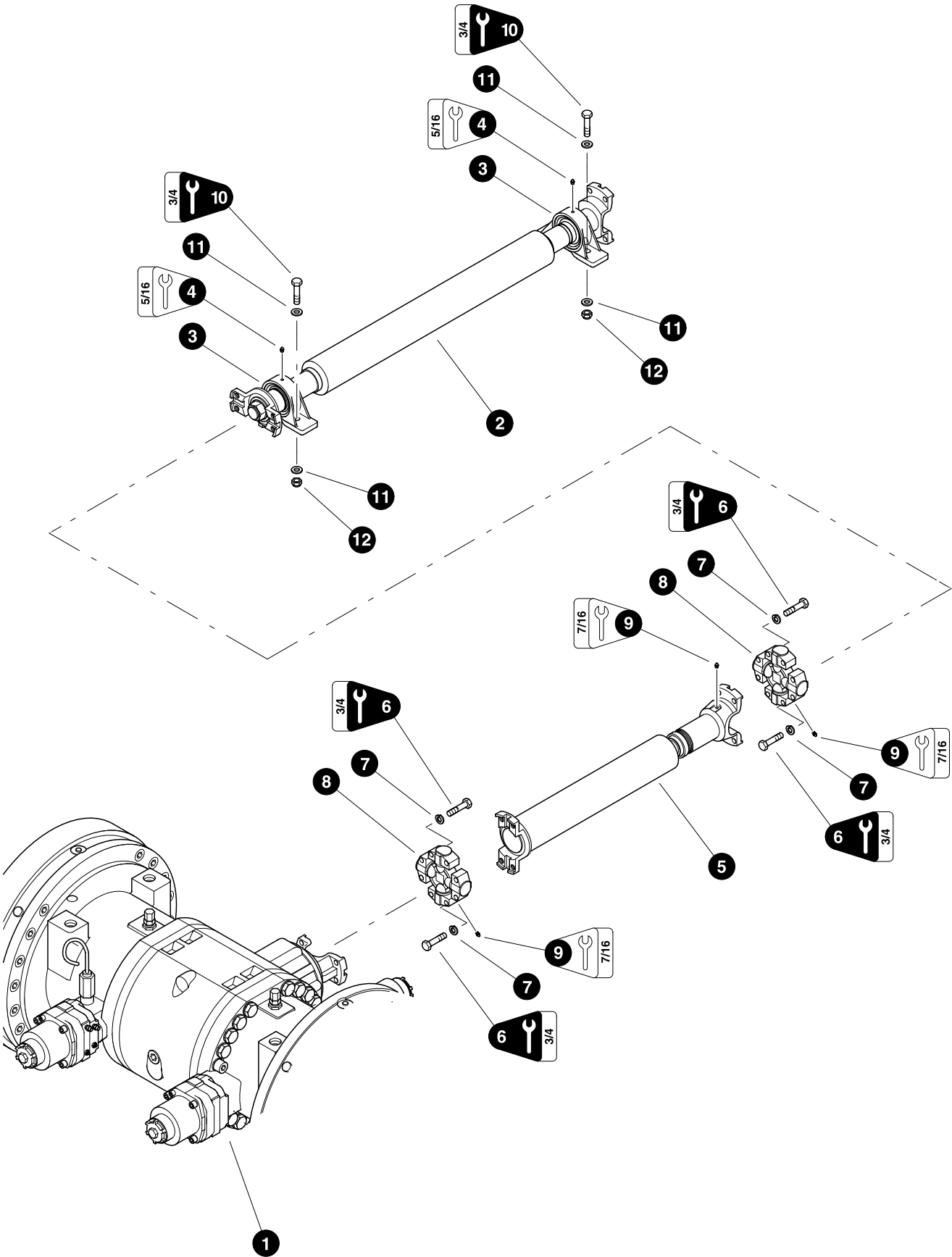
- ℄ Contact your TIMBCO dealer for additional information.
- ✓ See referenced page for component or assembly breakdown.
- ☐ Kit or Assembly - includes all items indented underneath.

Note #1:

Use Loctite 242 (blue) during installation.

Note #2:

Use Loctite 271 (red) during installation.



DRIVE SHAFT INSTALLATION (Rear Frame)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	REAR AXLE ASSEMBLY	Blue E
--	22154	1	☐	DRIVE SHAFT ASSEMBLY - COMPLETE	
2	19895-4	1	☐	DRIVE SHAFT (Articulation joint to mid-frame)	
3	19383	2		BEARING, pillow block	
4	18420	2		FITTING, grease - 1/4-28"	
5	22154-5	1	☐	DRIVE SHAFT (Mid-frame to rear axle)	
6	20662	16		BOLT - 1/2" x 2-1/4" NF (See note #1 below) (Torque to 115 lbs. (155 Nm))	
7	10710	16		WASHER, lock - 1/2"	
8	20677	2		U-JOINT, driveshaft	
9	10704	3		FITTING, grease - 1/8" pipe thread	
10	10736	4		BOLT - 1/2" x 2" (See note #2 below) (Torque to 110 lbs. (135 Nm))	
11	15534	8		WASHER, SAE flat - 1/2"	
12	10815	4		NUT, lock - 1/2"	

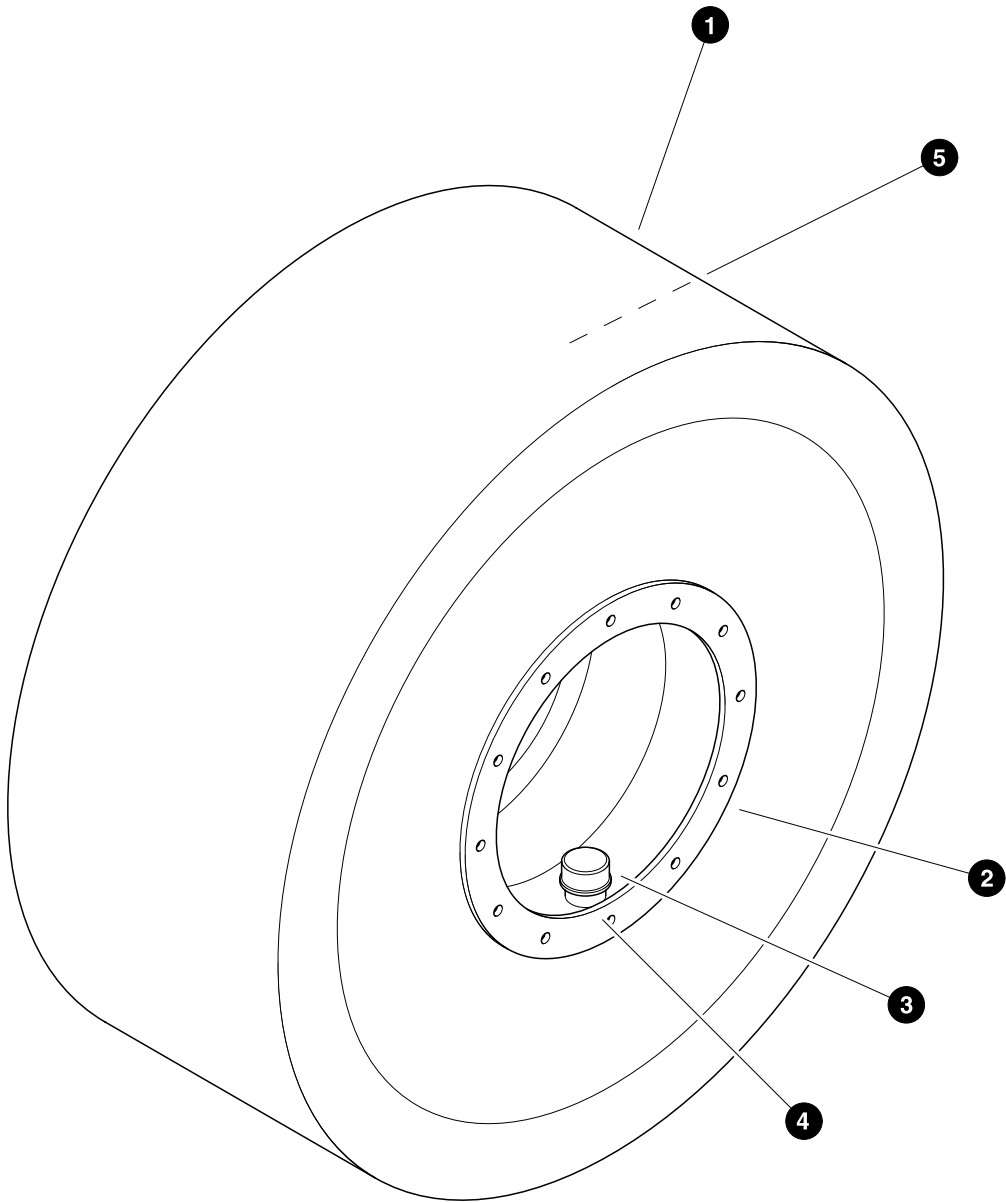
- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.

Note #1:

Use Loctite 242 (blue) during installation.

Note #2:

Use Loctite 271 (red) during installation.



Parts 00559 04/16/98
12.50

WHEEL ASSEMBLIES

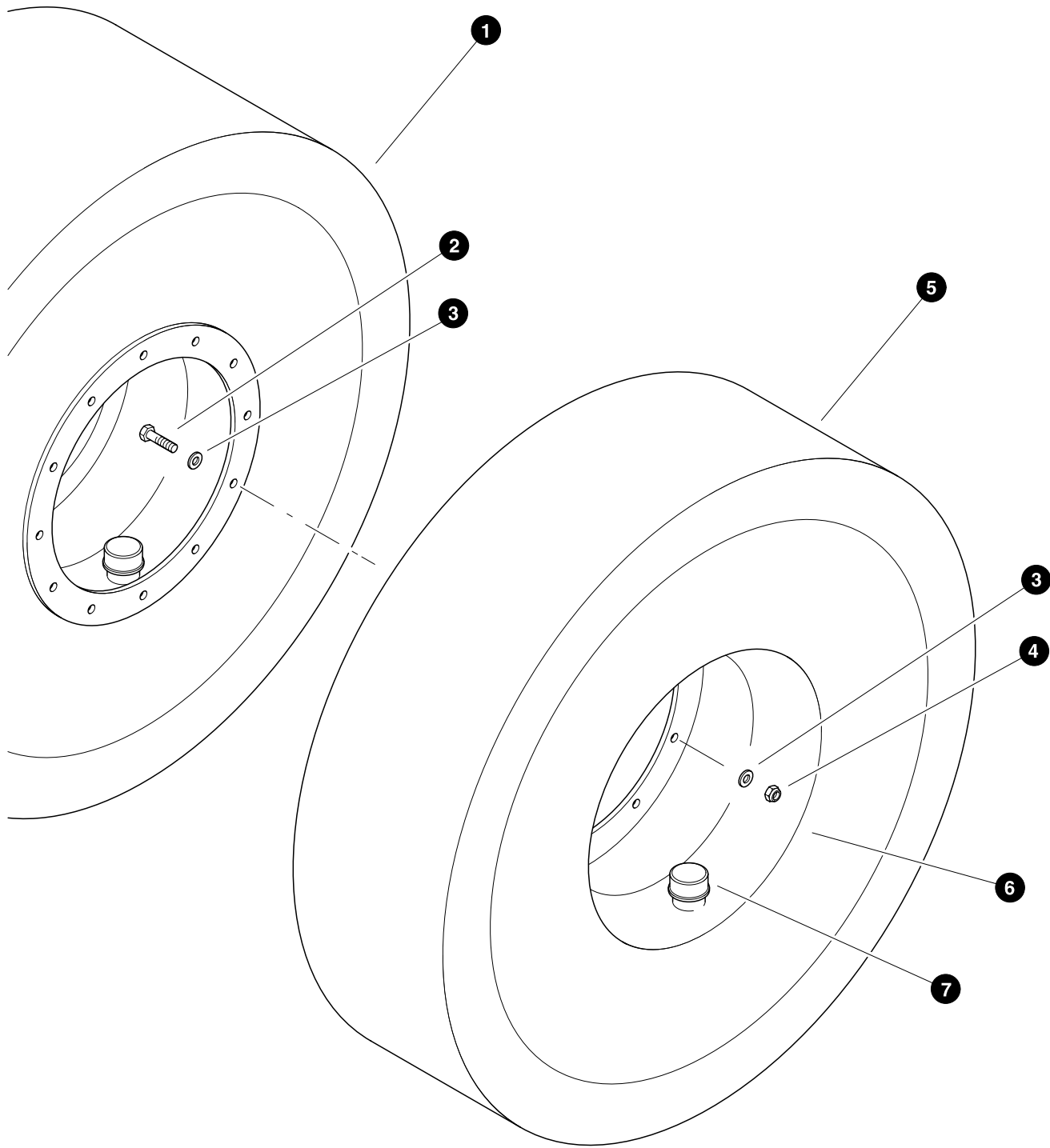
(Single Configurations - 8 Wheels Total)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	20915-L	4	☐	WHEEL ASSEMBLY, 28L-26 - LH (With spacer for dual mount)	
--	20915-R	4	☐	WHEEL ASSEMBLY, 28L-26 - RH (With spacer for dual mount)	
1	19802	1		TIRE/TUBE - 28L-26/14 ply (Firestone)	
2	22409	1		RIM, wheel - 28L-26 (With spacer for dual mount)	
3	NSS	1		CAP, black pipe	
--	19908-L	4	☐	WHEEL ASSEMBLY, 28L-26 - LH	
--	19908-R	4	☐	WHEEL ASSEMBLY, 28L-26 - RH	
1	19802	1		TIRE/TUBE - 28L-26/14 ply (Firestone)	
2	22408	1		RIM, wheel - 28L-26	
3	NSS	1		CAP, black pipe	
--	20264-L	4	☐	WHEEL ASSEMBLY, 20.5 x 25 - LH	
--	20264-R	4	☐	WHEEL ASSEMBLY, 20.5 x 25 - RH	
1	20246	1		TIRE - 20.5 x 25/20 ply (Bridgestone Firestone)	
	20262	1		O-RING, wheel	
	20263	AR		SEALANT	
2	20245	1		RIM, wheel - 20.5 x 25	
3	NSS	1		CAP, black pipe	
5	20261	1		STEM, valve	
--	20006	4	☐	WHEEL ASSEMBLY, 700/50-26.5" - LH	
--	20007	4	☐	WHEEL ASSEMBLY, 700/50-26.5" - RH	
1	19816	1		TIRE - 700/50-26.5"/20 ply (Firestone)	
2	21137	1		RIM, wheel - 700/50-26.5" wide	
3	NSS	1		CAP, black pipe	
5	20018	1		STEM, valve	
--	20310-L	4	☐	WHEEL ASSEMBLY, 750/55-26.5" - LH	
--	20310-R	4	☐	WHEEL ASSEMBLY, 750/55-26.5" - RH	
1	20312	1		TIRE - 750/55-26.5"/20 ply (Nokian)	
2	20311	1		RIM, wheel - 750/55-26.5"	
3	NSS	1		CAP, black pipe	
4	20313	1		TUBE, tire - 750/55-26.5"	
--	19909-L	4	☐	WHEEL ASSEMBLY, 54 x 37" - LH	
--	19909-R	4	☐	WHEEL ASSEMBLY, 54 x 37" - RH	
1	19791	1		TIRE - 54 x 37"/12 ply (Firestone)	
2	19803	1		RIM, wheel - 54 x 37"	
3	NSS	1		CAP, black pipe	

☐ Kit or Assembly - includes all items indented underneath.

Note:

LH and RH wheels are the result of the tire being mounted on the rim so that the tread is running the same direction on both sides of the machine when installed.



Parts 00560 04/16/98
12.50

WHEEL ASSEMBLIES

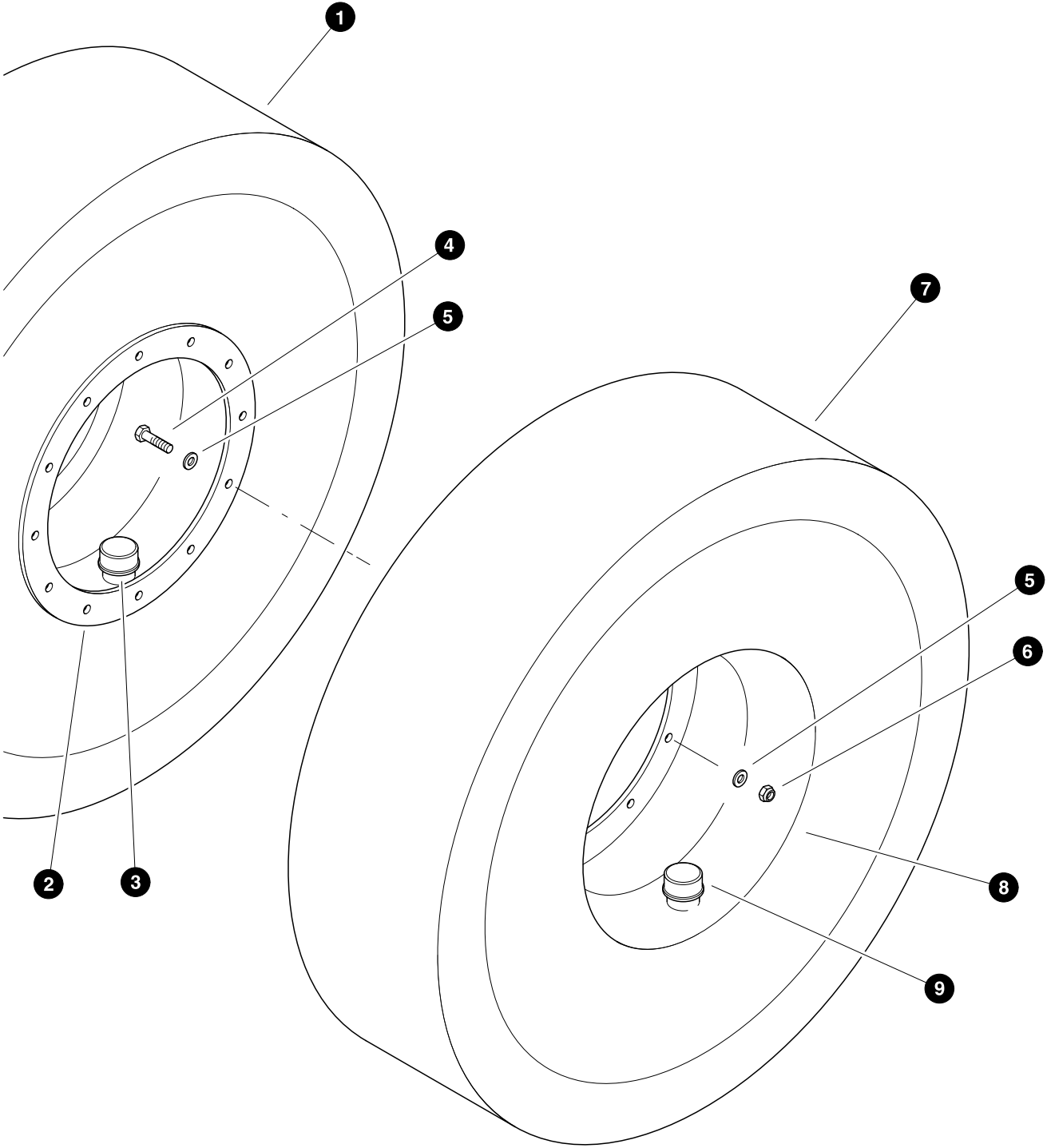
(Dual Configuration - 28L-26 & 23.1-26 - 16 Wheels Total)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	4	✓	WHEEL ASSEMBLY, 28L-26 - LH	K.1.12
	REF.	4	✓	WHEEL ASSEMBLY, 28L-26 - RH	K.1.12
2	10840	96		BOLT - 3/4" x 3"	
3	15550	192		WASHER, SAE flat - 3/4"	
4	10817	96		NUT, lock - 3/4"	
--	19911-L	4	☐	WHEEL ASSEMBLY, 23.1-26 - LH	
--	19911-R	4	☐	WHEEL ASSEMBLY, 23.1-26 - RH	
5	19800	1		TIRE/TUBE - 23.1-26/14 ply (Firestone)	
6	19920	1		RIM, wheel - 23.1-26	
7	NSS	1		CAP, black pipe	

- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.

Note:

LH and RH wheels are the result of the tire being mounted on the rim so that the tread is running the same direction on both sides of the machine when installed.



Parts 00561 04/20/98
12.50

WHEEL ASSEMBLIES

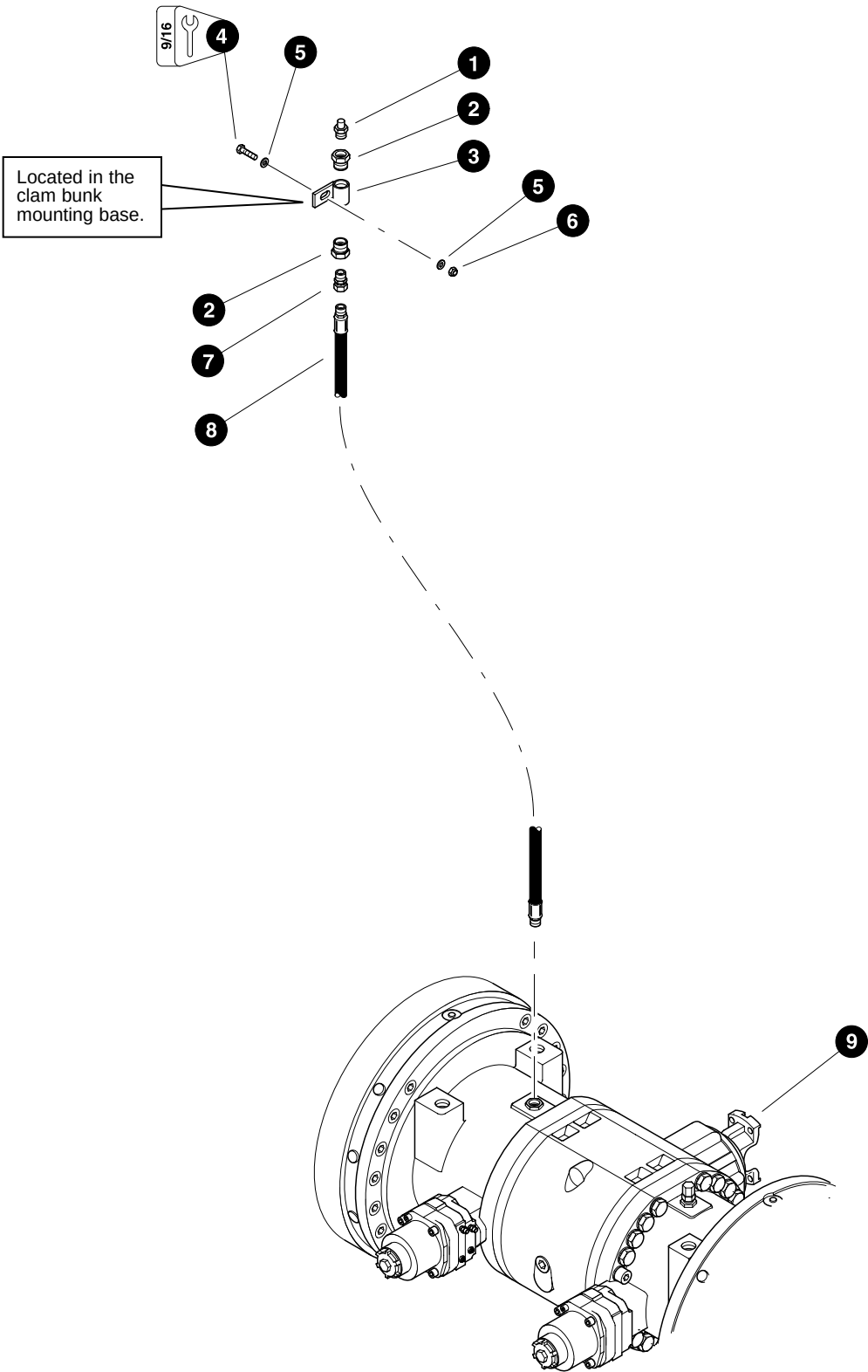
(Dual Configuration - 18.4-26 & 18.4-26 - 16 Wheels Total)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	19910-L	4	☐	WHEEL ASSEMBLY, 18.4-26 - LH (Rim dish in)	
--	19910-R	4	☐	WHEEL ASSEMBLY, 18.4-26 - RH (Rim dish in)	
1	19799	1		TIRE/TUBE - 18.4-26/10 ply (Firestone)	
2	19804	1		RIM, wheel - 18.4-26	
3	NSS	1		CAP, black pipe	
4	10840	96		BOLT - 3/4" x 3"	
5	15550	192		WASHER, SAE flat - 3/4"	
6	10817	96		NUT, lock - 3/4"	
--	20916-L	4	☐	WHEEL ASSEMBLY, 18.4-26 - LH (Rim dish out)	
--	20916-R	4	☐	WHEEL ASSEMBLY, 18.4-26 - RH (Rim dish out)	
7	19799	1		TIRE/TUBE - 18.4-26/10 ply (Firestone)	
8	19804	1		RIM, wheel - 18.4-26	
9	NSS	1		CAP, black pipe	

☐ Kit or Assembly - includes all items indented underneath.

Note:

LH and RH wheels are the result of the tire being mounted on the rim so that the tread is running the same direction on both sides of the machine when installed.

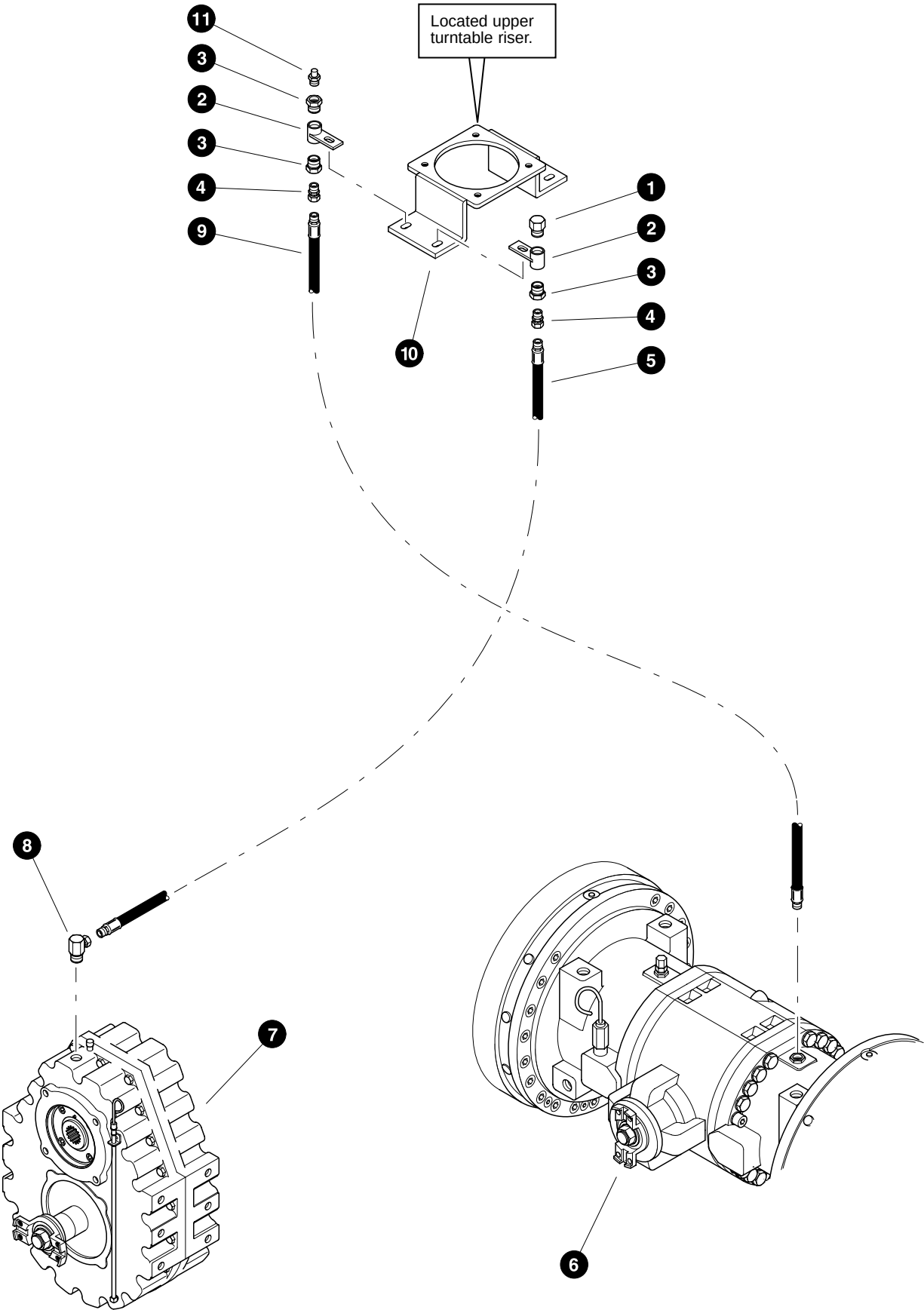


VENT LINES

(Rear Axle - Only Used When Clam Bunk Is Installed)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	- - - -	1	℄	VENT, axle	
2	15513	2		BUSHING, reducer - 5406-12-8	
3	22202	1		BRACKET, vent mount - rear	
4	10731	1		BOLT - 3/8" x 1-1/2"	
5	15528	2		WASHER, SAE flat - 3/8"	
6	10813	1		NUT, lock - 3/8"	
7	10322	1		CONNECTOR, straight swivel - 1404-8-8	
8	21961	1		HOSE ASSEMBLY - 2030-08-08MP-08MP (Rear axle vent port to vent mounting bracket)	
9	REF.	1	✓	REAR AXLE ASSEMBLY	Blue E

- ℄ Contact your TIMBCO dealer for additional information.
 ✓ See referenced page for component or assembly breakdown.



VENT LINES

(Front Axle & Transfer Case)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	----	1	ℓ	VENT, transfer case	
2	22203	2		BRACKET, vent mount - front	
3	15513	3		BUSHING, reducer - 5406-12-8	
4	10322	2		CONNECTOR, straight swivel - 1404-8-8	
5	21962	1		HOSE ASSEMBLY - 2063-08-08MP-08MP (Transfer case vent port to vent mounting bracket)	
6	REF.	1	✓	FRONT AXLE ASSEMBLY	Blue E
7	REF.	1	ℓ	TRANSFER CASE	
8	10359	1		ELBOW, 90° swivel - 1501-12-12	
9	21961	1		HOSE ASSEMBLY - 2030-08-08MP-08MP (Front axle vent port to vent mounting bracket)	
10	REF.	1		ROTARY MANIFOLD MOUNTING BRACKET	H.1.2
11	----	1	ℓ	VENT, axle	

- ℓ Contact your TIMBCO dealer for additional information.
 ✓ See referenced page for component or assembly breakdown.

Master TF820-D Hydro-Skidder Parts Manual PN# Index

<u>Part #</u>	<u>Description</u>	<u>Location</u>
10320	ELBOW, 90 swivel - 1501-4-4	E.1.8 * E.1.10 * E.1.12 * G.5.10 * G.5.12
10322	CONNECTOR, straight swivel - 1404-8-8	G.5.16 * K.1.18 * K.1.20
10359	ELBOW, 90 swivel - 1501-12-12	G.5.14 * K.1.20
10393	TEE - 5602-4	B.3.24
10394	ELBOW, 90 swivel - 1501-6-6	F.1.4
10402	BOLT - 3/8" x 1-1/4"	B.4.4 * E.1.2 * F.3.4 * F.4.24 * G.1.6 * G.3.10 * G.3.12
10549	BOLT - 3/4" x 2"	H.7.6
10700	NUT, hex - 3/8"	F.4.10 * G.4.6
10701	WASHER, lock - 3/8"	B.2.8 * F.2.2 * F.2.6 * F.2.8 * F.3.4 * G.4.4
10702	BOLT - 3/8" x 2-1/2"	B.1.10 * J.1.2 * J.1.4
10704	FITTING, straight grease - 1/8" pipe thread	E.2.2 * E.2.4 * E.2.4A * E.2.6 * E.2.8 * E.2.10 * H.1.6 * H.2.8 H.3.8 * H.3.10 * H.4.8 * H.7.2 * H.7.4 * H.7.6 * K.1.8 * K.1.10
10705	BOLT - 1/2" x 5"	G.1.2 * H.1.12 * H.1.14 * H.1.18 * H.1.20 * H.6.6
10710	WASHER, lock - 1/2"	B.3.12 * K.1.8 * K.1.10
10713	BOLT - 3/8" x 3-1/2"	F.2.6 * F.2.8
10718	WASHER, SAE flat - 7/8"	H.4.10
10728	NUT, nylock - 2"	H.3.4 * H.4.10 * H.7.4
10731	BOLT - 3/8" x 1-1/2"	B.2.6 * B.2.20 * B.2.22 * B.3.4 * F.3.4 * F.3.22 * F.4.4 * F.4.24 G.5.16 * H.1.6 * H.4.2 * H.4.4 * K.1.18
10734	WASHER, burned	K.1.2 * K.1.4
10736	BOLT, 1/2" x 2"	E.1.6 * F.2.10 * H.1.2 * H.1.10 * H.1.12 * H.3.12 * H.6.4 * K.1.8 K.1.10
10739	BOLT - 1/2" x 1-1/2"	B.2.2 * B.2.2A * E.1.6 * E.2.8 * F.1.2 * H.1.10 * H.1.14
10751	PLUG - 5406-P-8	B.2.20 * B.2.22
10753	BOLT - 3/8" x 4-1/2"	B.1.2
10756	WASHER, lock - 1/4"	B.3.4 * G.2.6 * G.4.10 * J.3.26
10757	WASHER, SAE flat - 1/4"	B.1.4 * B.4.10 * F.1.6 * F.3.16 * F.4.18 * G.2.2 * G.2.4 * G.2.6 G.2.10 * G.3.12 * G.4.4 * G.4.10 * H.1.20 * J.1.2 * J.1.4 * J.1.16 J.1.22 * J.3.10 * J.3.12 * J.3.20
10760	CONNECTOR, hose	F.1.6 * F.3.14
10771	WASHER, SAE flat - 5/8"	E.1.6 * F.4.2 * H.2.2 * H.3.2 * H.7.2
10773	BOLT - 5/8" x 3-1/2"	H.7.2
10775	BOLT - 3/4" x 2-1/2"	H.7.4
10783	BOLT - 1/2" x 1"	E.1.2 * E.1.6 * F.1.2 * G.1.2 * H.1.8 * H.1.10 * H.1.12 * H.1.18 H.1.22 * H.4.4 * H.4.6

Part #	Description	Location
10788	NUT, nylock - 5/16"	B.3.54 * F.3.18 * F.3.24 * F.3.26 * F.4.20 * G.3.10 * H.1.16
10800	WASHER, flat - 1/4"	E.1.16 * F.2.12 * G.3.10 * G.3.14 * G.4.10
10801	WASHER, flat - 5/16"	F.2.4 * F.2.4A * G.5.10
10802	WASHER, flat - 3/8"	B.1.10 * F.2.4 * F.2.4A * F.3.20 * F.3.22 * F.4.4 * F.4.10 * F.4.22 F.4.24
10804	WASHER, flat - 1/2"	F.1.2 * H.1.10 * H.1.20
10806	WASHER, flat - 3/4"	H.6.6
10811	NUT, lock - 1/4"	B.3.4 * G.1.6 * G.4.10 * J.1.2 * J.1.4 * J.3.12 * J.3.20
10812	NUT, lock - 5/16"	B.1.10 * E.1.20 * G.5.12
10813	NUT, lock - 3/8"	B.1.6 * B.1.10 * B.2.20 * B.2.22 * B.3.4 * F.3.4 * F.3.20 * F.3.22 F.4.4 * F.4.22 * F.4.24 * G.5.10 * G.5.12 * G.5.16 * H.1.6 * H.1.8 H.4.2 * K.1.18
10815	NUT, lock - 1/2"	B.2.6 * E.1.6 * F.1.2 * F.2.10 * H.1.2 * H.1.12 * H.1.14 * H.1.18 H.1.20 * H.3.12 * H.4.6 * H.6.4 * H.6.6 * K.1.8 * K.1.10
10816	NUT, lock - 5/8"	H.7.2
10817	NUT, lock - 3/4"	F.2.10 * F.3.2 * F.4.2 * H.6.4 * H.6.6 * H.7.4 * K.1.6 * K.1.14 K.1.16
10818	BOLT - 1/4" x 3"	B.1.4
10822	BOLT - 5/16" x 1-1/4"	E.1.20 * F.3.6
10824	BOLT - 5/16" x 2-1/2"	B.3.54
10829	BOLT - 3/8" x 5-1/2"	F.4.4
10830	BOLT - 3/8" x 6"	F.3.4
10835	BOLT - 1/2" x 4-1/2"	H.4.6
10838	BOLT - 5/8" x 5"	H.2.6 * H.3.6
10840	BOLT - 3/4" x 3"	H.6.6 * K.1.14 * K.1.16
10841	BOLT - 3/4" x 3-1/2"	H.1.4
10844	BOLT - 3/4" x 5"	K.1.6
10845	BOLT - 3/4" x 5-1/2"	F.3.2
10882	BOLT - 5/16" x 3/4"	E.1.4
10883	BOLT - 7/16" x 3"	E.1.2
10893	BOLT - 1/2" x 3"	G.1.2 * H.6.6
11304	CONNECTOR, straight swivel - 1404-12-12	G.5.14
11312	BUSHING, reducer - 5406-8-4	E.1.12
11318	BUSHING, reducer - 5406-6-4	B.2.52 * E.1.10 * E.1.12 * F.1.6
11331	CONNECTOR, straight swivel - 1404-4-4	E.1.10 * E.1.12
11360	PLUG - 5406-P-2	E.1.4

<u>Part #</u>	<u>Description</u>	<u>Location</u>
11375	ELBOW, 45 swivel - 1503-12-12	G.5.16
11383	PLUG - 6408-HHP-4	C.3.4 * D.3.4
11384	PLUG - 6408-8	B.1.8
11704	BUSHING - 2-1/2" x 4-1/4"	E.2.2 * E.2.4 * E.2.4A
11706	BUSHING - 3" x 4-1/4"	E.2.2 * H.2.2
11707	BOLT - 3/8" x 1"	E.1.18 * F.2.2 * F.3.4 * F.3.20 * F.4.22 * G.3.12 * G.4.4 * G.5.10 G.5.12 * H.7.8
12013	KNOB, star	G.2.10
12066	BLOCK, bottom	H.2.6
12067	BLOCK, top	H.2.6
12115	CAP, tapered hub	H.2.4
12116	LOCK, center tapered hub bolt	H.2.4
12127	BUSHING, spherical - 3"	H.4.8
12139	BRACKET, compressor adjustment	F.3.4
12149	BUSHING - 2" x 4-1/4"	H.7.4
12150	COVER, radiator fill access	H.1.20
12186	PLATE, muffler mount	F.4.24
12192	TUBE, suction	B.2.2 * B.2.2A
12218	BRACKET, throttle cable mount -cab	F.3.16 * F.4.18
12222	BRACKET, cab gauge mount	B.3.24 * F.1.6 * J.5.10
12270	CLAMP, vermatic - 1-1/2" x 1-1/2"	B.2.34
12351	WELDMENT, pin retainer block - 3" pin	H.2.6
12352	HUB, tapered - 1-1/4" plate	H.2.4
12365	SPACER, base - 3" x 7-1/2"	H.2.2
12397	BUSHING - 3" x 2-1/2"	H.7.2
12401	TANK, hydraulic oil	E.1.2
12423	DOORSTOP, T-handle	G.1.2
12424	BAR, doorstop slide	G.1.2
12425	BOX, electrical terminal - inner	J.3.12
12426	BOX, electrical terminal - outer	J.3.12
12437	BRACKET, compressor mounting	F.3.4
12463	SPACER, bolt - upper turntable mounting	H.1.2
13330	WELDMENT, clam arm base	H.7.4
13350	WELDMENT, clam mounting base	H.7.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
13366	RING, clam pivot wear	H.7.2
13367	RING, clam pivot spacer	H.7.2
13368	RING, clam pivot hold-down	H.7.2
13370	WELDMENT, clam pivot	H.7.2
13385	COVER, hinge	H.7.8
13390	SHAFT, hinge cover	H.7.8
13403	WELDMENT, clam bunk arm - 5" dia. cylinder	H.7.4
13414	COVER, access - clam mounting base	H.7.8
13415	COVER, access - arm mounting base	H.7.8
14088	GUARD, cab-side engine pivot	H.1.10
14093	COVER, swivel access	H.1.8
14180	WELDMENT, upper turntable	H.1.2
15005	WIRE - 10 gauge	E.1.18
15008	STRIP, terminal - engine	J.1.10
15009	WIRE HARNESS, main engine to cab	J.1.22
15016	STRIP, terminal - 13 terminals	J.3.12
15017	DIODE	J.3.12
15025	GAUGE, hourmeter	J.3.2
15026	GAUGE, voltmeter	J.3.2
15027	SIREN, warning	J.3.2
15028	SWITCH, ignition	J.3.2
15029	BREAKER, circuit - 8 amp	J.3.2
15040	SWITCH, binary	G.4.14
15053	JUMPER, tab terminal	J.3.12
15114	KIT, split flange - 1-1/4"	B.3.12
15115	CONNECTOR, straight - FF1852T-0810S	B.1.6 * B.2.28 * B.2.36 * B.2.46 * B.3.4 * B.4.12 * B.4.14
15117	CONNECTOR, straight - FF1852T-0808S	B.1.10 * B.3.54
15118	TAP, gauge port - 1/4" pipe thread	B.1.4 * B.1.8 * B.3.24
15124	CONNECTOR, straight - FF1852T-0406S	B.1.8 * B.2.12 * B.2.14 * B.2.16 * B.3.26 * B.3.34 * B.3.36 B.3.42 * B.3.44 * B.3.46 * B.3.48 * B.4.10
15131	CONNECTOR, straight - FF2031T-0404S	B.2.52 * B.3.24
15133	ELBOW, 90 - FF1868T-0406S	B.1.2 * B.1.4 * B.2.16 * B.3.32 * B.3.42 * B.3.44 * B.3.46 B.4.10
15139	TEE - FF1898T-0404S	B.3.38
15145	ELBOW, 90 swivel - FF2098T-0404S	B.3.28 * B.3.34 * B.3.36 * B.3.38 * B.3.48 * B.4.10

Part #	Description	Location
15152	CONNECTOR, straight - FF1852-1212S	B.1.2 * B.2.10 * B.2.26 * B.2.44 * B.2.48 * B.4.4 * B.4.6
15154	ELBOW, 90 - FF1868T-0810S	B.3.4 * B.3.52 * E.1.20
15176	TEE - FF2114T-040S	B.1.4 * B.3.28 * B.3.30 * B.3.38 * B.3.40 * B.3.44 * B.3.48
15179	CONNECTOR, straight - FF2031T-1616S	B.2.20 * B.2.22
15189	VALVE, ball - 2-1/2"	B.2.2
15190	CLAMP, strap band - 3-1/8"	B.2.2 * B.2.2A
15191	CLAMP, constant torque - 1-1/2"	B.3.2 * B.3.2A * E.1.2
15193	KIT, split flange - 2-1/2"	B.2.2 * B.2.2A
15201	CONNECTOR, straight - FF2031T-1212S	B.4.8
15225	CONNECTOR, straight - FF1852T-1616S	B.2.18
15226	CONNECTOR, straight - FF1852T-1216S	B.1.2 * B.2.2A * B.2.10 * B.3.8
15238	CONNECTOR, straight - FF1852T-0812S	B.3.52
15258	CONNECTOR, straight - FF2031T-0808S	B.1.12 * B.2.50 * E.1.20
15268	HOSE ASSEMBLY - 4047-08-080S-0809	B.2.32 * B.2.40
15272	CLAMP, tubeline - 1/2" x 1/2"	H.2.2 * H.3.2
15276	HOSE ASSEMBLY - 2066-04-040S-0404	B.2.52
15287	NUT, cylinder rod - 2" NF	E.2.2
15326	FILTER, screen - 100 mesh suction	B.3.2 * B.3.6
15328	CONNECTOR, straight swivel - 6900-4-4	B.3.24
15334	WASHER, SAE flat - 1/2"	G.1.2
15369	HOSE ASSEMBLY - 2012-04-040S-0409	B.4.10
15372	ELBOW, 90 - FF1868T-0812S	B.3.4
15374	FILTER, charge	B.3.4
15375	ELEMENT, filter - charge	B.3.4
15377	O-RING - 1" SF	B.2.8
15378	O-RING - 1-1/4" SF	B.3.12 * B.3.14 * B.3.16 * E.1.2
15380	HOSE ASSEMBLY - 2060-04-040S-0409	B.4.10
15390	O-RING - 2-1/2" SF	B.2.2 * B.2.2A
15391	CONNECTOR, straight swivel - 1404-2-2	E.1.8 * H.1.6
15412	PLUG - 6408-HHP-6	B.1.12 * B.1.8 * C.3.2
15443	TEE - FF2114T-0808S	B.2.44
15448	O-RING	B.2.2 * B.2.2A * E.1.2
15502	BOLT - 5/8" x 1-1/2"	E.1.6
15504	CONNECTOR, straight - FF1852T-0408S	B.2.54 * B.3.36 * B.3.38

<u>Part #</u>	<u>Description</u>	<u>Location</u>
15505	ELBOW, 90 - FF2032T-0404S	B.1.2 * B.1.4 * B.3.24
15507	NUT, nylock - 3/8"	B.1.2 * B.2.6 * G.1.2 * G.2.2 * G.2.6 * G.2.8 * G.5.2 * G.5.4 H.4.4 * J.1.2 * J.1.4
15509	NUT, nylock - 1/4"	E.1.16 * F.1.6 * F.2.12 * F.3.16 * F.4.18 * G.3.10 * G.3.12 * G.3.14 * J.1.10 * J.1.16 * J.1.22 * J.3.26
15513	BUSHING, reducer - 5406-12-8	B.2.20 * B.2.22 * K.1.18 * K.1.20
15515	PLUG - 5406-P-4	F.1.2 * F.2.2 * F.2.4 * F.2.4A
15526	BOLT - 5/8" x 2"	H.2.2 * H.3.2
15528	WASHER, SAE flat - 3/8"	B.1.2 * B.1.6 * B.2.6 * B.2.20 * B.2.22 * B.3.4 * B.4.4 * E.1.2 E.1.6 * E.1.18 * E.1.22 * F.2.2 * F.2.6 * F.2.8 * F.3.4 * F.3.6 F.3.10 * F.3.20 * F.3.22 * F.4.4 * F.4.12 8 * F.4.22 * G.1.2 * G.1.6 G.2.2 * G.2.6 * G.2.8 * G.3.10 * G.3.12 * G.4.4 * G.4.6 * G.5.2 G.5.10 * G.5.12 * G.5.16 * H.1.6 * H.1.8 * H.1.22 * H.4.2 H.7.8 * J.1.2 * J.1.4 * K.1.18
15529	BOLT - 3/8" x 2"	B.1.6 * G.1.2 * H.1.6 * H.1.8
15530	NUT, hex - 3/8"	F.3.10 * F.4.12
15531	STUD, threaded - 10mm x 45mm	F.3.10
15533	NUT, nylock - 1/2"	G.1.2 * H.4.12
15534	WASHER, SAE flat - 1/2"	B.2.2 * B.2.2A * B.2.6 * E.1.2 * E.1.6 * E.1.22 * F.1.2 * F.2.10 G.2.10 * H.1.2 * H.1.8 * H.1.10 * H.1.12 * H.1.14 * H.1.18 H.1.20 * H.1.22 * H.2.4 * H.3.12 * H.4.4 * H.4.6 * H.6.4 * H.6.6 K.1.8 * K.1.10
15542	BOLT - 3/8" x 3/4"	B.1.6 * E.1.6 * E.1.22 * F.2.4 * F.2.4A * F.3.10 * F.3.20 * F.4.12 F.4.22 * G.1.2 * H.1.6 * H.1.22 * H.4.4
15543	BOLT - 1-1/4" x 5-1/2"	H.2.6
15544	WASHER, flat - 1-1/4"	H.2.6
15548	WASHER, SAE flat - 7/16"	E.1.2
15549	BOLT - 3/4" x 2"	B.3.6 * H.3.4 * H.6.2
15550	WASHER, SAE flat - 3/4"	B.3.6 * F.2.10 * F.3.2 * F.4.2 * H.1.4 * H.3.4 * H.6.2 * H.6.4 H.7.4 * H.7.6 * K.1.6 * K.1.14 * K.1.16
15551	BOLT - 12mm-1.75P x 40mm	B.2.2A * F.3.2 * J.1.14
15552	BOLT - 1" x 2-1/2"	H.2.4 * H.6.6
15553	BOLT - 1/2" x 3-1/2"	B.2.6 * H.4.12
15556	BOLT - 12mm-1.75P x 20mm	J.1.6 * J.1.8 * J.1.14
15559	WASHER, SAE flat - 5/16"	H.1.16
15568	BOLT - 1/4" x 2"	J.3.20
15559	WASHER, SAE flat - 5/16"	B.3.54 * E.1.4 * E.1.20 * F.2.2 * F.2.6 * F.2.8 * F.3.6 * F.3.24 F.3.26 * F.4.6 * G.3.10 * G.3.12 * G.5.12 * H.1.16
15563	NUT, nylock - 5/8"	H.2.2 * H.2.6 * H.3.6
15565	BOLT - 1/2" x 2-1/2"	F.1.2 * H.1.2 * H.1.10 * H.2.4 * H.6.6

<u>Part #</u>	<u>Description</u>	<u>Location</u>
15566	CONTROL, throttle	F.3.16 * F.4.18
15567	CONNECTOR, straight - 5404-4	E.1.10 * E.1.12 * F.3.16 * F.4.18 * G.5.10
15568	BOLT - 1/4" x 2"	J.3.12 * J.3.20
15572	PIN, cotter	F.3.16 * F.4.18 * F.4.24
15573	PIN, pivot throttle cable end	F.3.16 * F.4.18
15574	BUSHING, reducer - 5406-4-2	B.2.2A * F.3.16 * F.4.18 * J.3.10 * J.3.20
15575	BOLT - 1/4" x 1-1/2"	B.4.10 * F.3.16 * F.4.18 * G.4.4
15576	BOLT - 1/4" x 1"	B.3.4 * E.1.16 * F.1.6 * F.2.12 * F.4.18 * G.3.14 * J.1.2 * J.1.4 J.3.26
15579	WASHER, SAE flat - 1"	G.1.4 * H.6.6 * K.1.2 * K.1.4
15589	BOLT - 5/16" x 1"	E.1.20 * F.2.2 * F.2.6 * F.2.8 * F.3.24 * F.3.26 * G.3.12 * G.5.10 G.5.12 * H.1.16
15591	BOLT, 5/16" x 1-1/2"	F.3.18 * F.4.20
15592	BOLT - 3/8" x 4"	G.5.2
15600	O-RING, tank access cover	E.1.2 * F.1.2
15604	BOLT - 1/4" x 3/4"	B.3.4 * B.3.24 * G.2.6 * G.2.10 * G.3.10 * G.3.12 * G.4.4 G.4.10 * H.1.20 * J.1.10 * J.1.16 * J.1.22 * J.3.10
15605	BOLT - 5/16" x 3/4"	F.2.4 * F.2.4A
15606	WASHER, lock - 5/16"	F.2.2 * F.2.6 * F.2.8 * G.5.10
15619	SPACER, radiator - 3/8"	F.2.10
15621	BRACKET, A/C drier	G.4.4
15629	CLAMP, hose - worm style - 1-1/2"	F.3.24 * F.4.26 * G.4.16 * G.4.18
15630	BUSHING, reducer - 5406-8-6	F.1.4 * G.4.18
15631	VALVE, shut-off	G.4.18
15647	ELBOW, 45 swivel - 1503-4-6	F.4.16
15649	REGULATOR, turbo boost	E.1.10 * E.1.12
15650	VALVE, shut-off	E.1.10 * E.1.12
15651	TEE - 5604-6	E.1.10 * E.1.12
15652	VALVE, check	E.1.10 * E.1.12
15657	ELBOW, 90 swivel - 1501-2-2	H.1.6
15658	CONNECTOR, straight bulkhead - 2239-2-4S	H.2.8
15663	SCREW, machine - #10-24 x 1"	G.3.10 * J.1.10
15668	BOLT - 5/16" x 4"	B.1.10
15669	SCREW, machine - #10-24 x 1/2"	G.1.6 * G.5.8 * J.4.8
15672	STUD - 5/8" x 6 11/4"	H.2.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
15677	HOSE, heater - 1"	F.3.24 * F.4.26
15681	BOLT, 5/8" x 2-1/4"	E.2.4 * E.2.4A * E.2.6 * E.2.10
15685	FITTING, straight long grease - 1/8" pipe thread	H.1.6
15694	WEATHERSTRIP	G.2.10
15695	WEATHERSTRIP	G.2.4
15697	CLAMP, strap band - 4-1/2"	F.3.20 * F.4.22
15800	ENGINE, Caterpillar - 3126T 240HP	F.4.2
15805	STARTER - 12V	F.3.8
15809	FILTER, air cleaner - primary	F.4.20
15810	FILTER, air cleaner - secondary	F.4.20
15825	AIR CLEANER ASSEMBLY	F.4.20
15826	CANISTER, air cleaner	F.4.20
15827	NUT, wing - air cleaner - primary	F.4.20
15828	NUT, wing - air cleaner - secondary	F.4.20
15829	CLAMP, air cleaner band	F.4.20
15830	COVER, air cleaner	F.4.20
15831	ELBOW, 90 rubber	F.3.20 * F.4.22
15842	FILTER, screen - implement suction	B.2.2 * B.2.2A
15864	GAUGE, hydraulic oil level sight	E.1.14
15870	SEAL, shaft	C.2.2
15897	CAP, radiator	F.2.2 * F.2.4 * F.2.4A
15914	NUT, cylinder rod - 1-3/4"	E.2.4A * E.2.10
16006	HOSE ASSEMBLY - 2148-04-04PS-02PS	E.1.8
16034	PLUG - FF9767-16S	B.2.20 * B.2.22
16035	RELAY, 12V heavy duty	J.1.10 * J.3.20
16038	PROTECTOR, rubber gauge	B.3.24
16041	CONNECTOR, headlight	J.3.22
16042	LIGHT, spot	J.3.24
16043	LIGHT, spot trapezoidal	J.3.24
16044	LIGHT, flush mount	G.2.2 * G.2.4 * J.3.22
16059	DECAL, keep clear	H.1.28
16060	DECAL, crush zone	H.1.28
16061	DECAL, cab warning strip	H.1.24
16063	DECAL, gauge cautions	H.1.24

<u>Part #</u>	<u>Description</u>	<u>Location</u>
16064	DECAL, Timbco logo - 4" x 15"	H.1.28
16069	PUMP, fuel lift	F.3.12
16070	FILTER, engine oil	F.3.8
16071	BELT, engine fan	F.3.6
16078	BREAKER, 20 amp	J.1.10
16080	BREAKER, 50 amp	J.1.10
16086	KIT, seal repair - relief valve cartridge	D.1.2
16097	BREAKER, 40 amp	J.1.10
16105	ELBOW, 90 rubber	F.4.22
16106	O-RING	B.2.2 * B.2.2A
16109	HOSE, suction - 1"	B.3.2 * B.3.2A
16114	INDICATOR, air cleaner filter service	F.3.18 * F.4.20
16116	BOLT, allen head - 10mm x 30mm	B.3.2 * B.3.2A
16119	CLAMP, hose - coated strap - 1"	E.1.16 * F.2.12
16123	NIPPLE, king - 1/2"	E.1.22
16127	SCREW, machine #10-24 x 1-1/4"	J.5.10 * J.5.12
16129	SCREW, self-tapping machine - #10-24 x 3/4"	J.1.10
16131	NUT, nylock - #10-24	J.1.14 * J.3.10 * J.5.10 * J.5.12
16132	WASHER, lock - 1/4"	G.5.8
16133	BOLT - 6mm-1.0P x 16mm	F.3.16
16202	CLAMP, hose - worm style - 5/8"	E.1.14 * E.1.16 * F.1.6 * F.2.12 * F.3.14 * F.3.28
16207	SLEEVE, protective hose - 1-3/4"	B.3.30 * B.3.40 * B.3.50
16208	WASHER, flat - #10	G.3.10 * J.1.14 * J.3.10 * J.4.8
16212	NUT, speed - #10	G.3.10 * J.3.10
16213	SCREW, phillips - #10 -3/4"	J.3.10
16222	FIRE EXTINGUISHER	G.3.14
16230	CHANNEL, window molding	G.2.2 * G.2.6 * G.2.8
16238	HOSE, rubber - 5/16"	E.1.14 * E.1.16 * F.1.6 * F.2.12 * F.3.14 * F.3.28
16249	CLAMP, strap band - 5-1/2"	F.3.20 * F.4.22
16251	ELBOW, 90 street - 5502-4	F.1.6
16256	CLAMP, hose - worm style - 1"	E.1.22 * F.3.26 * F.4.28
16263	ELBOW, 45 swivel female - 1504-2-2	E.1.8
16281	LIGHT, spot - 4-3/4" diameter	J.3.26
16289	SWITCH, master shut-off	J.1.6 * J.1.8

<u>Part #</u>	<u>Description</u>	<u>Location</u>
16290	STRAP, tie	E.1.22 * G.4.6 * G.4.8
16295	CONNECTOR, straight - FF2031T-0604S	F.3.14 * F.4.16 * J.5.10 * J.5.12
16296	ELBOW, 90 - FF1868T-0606S	B.2.12 * B.2.14 * B.4.10
16297	ELBOW, 90 swivel - FF2098T-0808S	B.1.12 * B.2.28 * B.2.36 * B.3.54
16310	TEE, black pipe - 1/4"	G.5.10
16325	BUSHING, black reducer - 1-1/4" x 3/4"	B.4.8
16327	BUSHING, black reducer - 3" x 2-1/2"	B.2.2 * B.2.2A
16331	RELIEF, strain	E.1.18 * J.3.14
16360	ELBOW, 90 - FF1868T-0808S	B.1.6 * B.1.12 * B.2.44 * B.3.54 * B.4.12 * B.4.14
16364	BOLT - 1/4" x 2-1/4"	F.3.16 * F.4.18
16373	ELBOW, 90 street - 5502-16	B.3.6
16375	NIPPLE, straight king - 4404-16-16	B.3.2 * B.3.6 * E.1.2
16403	BRACKET, hinge	H.1.12 * H.1.14
16411	HOSE ASSEMBLY - 4032-08-080S-0809-W	B.3.4
16422	ELBOW, 90 - FF1868T-1210S	B.2.4 * B.3.22
16415	DECAL, hydraulic tank support	H.1.28
16423	WINDOW, sliding w/frame	G.2.10
16433	HOSE, flex radiator - 2" x 2-1/4" x 25"	F.3.28
16494	BOOT, rubber air intake	F.4.22
16495	BOOT, rubber	F.4.22
16498	BOOT, rubber	F.3.20
16505	SWITCH, door	J.3.14
16514	WIRE, detection	G.5.8
16515	SQUIB	G.5.8
16517	SPACER, compressor mounting	F.3.4
16538	STUD, 2-way	G.2.10
16539	STAND-OFF	G.2.10
16541	CONNECTOR, straight - FF1852T-0404S	B.3.28
16544	NON-SKID - 6"	H.1.20
16548	SPACER, engine fan	F.3.6
16549	SPACER, engine fan	F.3.6
16552	COVER, system pump suction	E.1.2
16572	RUBBER, muffler mounting	F.3.22 * F.4.24
16585	CAP, non-locking fill	F.1.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
16607	DECAL, pressurized hydraulic tank	H.1.28
16608	BOOT, air cleaner dust	F.3.20 * F.4.22
16633	SHIM - 7 gauge	H.2.4 * H.3.4
16637	SHIM - 10 gauge	H.2.4 * H.3.4
16638	SHIM - 14 gauge	H.2.4 * H.3.4
16639	ELBOW, 90 - 6805-4-4	B.1.4
16660	KIT, split flange - 3/4"	B.2.46
16705	LOOM, split - 1/4"	E.1.18 * J.3.14 * J.3.22
16706	VALVE, ball shut-off - 1"	B.3.2 * B.3.6
16717	HOSE, heater - 5/8"	E.1.22 * F.2.10 * G.4.16 * G.4.18
16719	BUSHING, reducer - 6410-16-8	B.1.10
16727	PLUG - 6408-24	E.1.2
16730	FILTER, return	E.1.4
16734	RETAINER, muffler rubber	F.3.22 * F.4.24
16748	HOSE ASSEMBLY - 2013-04-04OS-04OS	G.5.12
16750	HOSE ASSEMBLY - 2102-04-04PS-04PS	G.5.10
16760	BUSHING, black reducer - 2" x 1"	B.3.2 * B.3.6
16764	COVER, filter head	E.1.4
16766	HEAD, filter	E.1.4
16767	HEAD, filter	E.1.4
16769	TUBE, diffuser	E.1.4
16773	GUARD, return filter	E.1.6
16774	PLUG - 3"	E.1.2
16775	NOZZLE, flat - 1/2"	G.5.16
16778	VALVE, check	G.5.10
16791	ELBOW, 90 - 5500-4-2	E.1.8
16796	COVER, A/C compressor dust	F.3.6 * F.4.6
16798	MOTOR, electric hydraulic oil fill	E.1.18
16799	COUPLING, motor	E.1.18
16800	PUMP, electric hydraulic oil fill	E.1.18
16801	BRACKET, motor/pump mounting	E.1.18
16802	VALVE, shuttle	E.1.8
16809	ELBOW, 90 - 6801-24	E.1.2
16810	CAP, fill	E.1.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
16811	LEXAN, light guard	G.2.2
16824	GUARD, fill spout	E.1.6
16831	BUSHING, reducer - 5406-12-6	G.4.18
16834	GASKET, fuel lift pump	F.3.12
16838	COVER, foot control valve	G.3.12
16849	KNOB, star - 1-1/2"	H.1.20
16851	CONNECTOR, straight - FF1852T-120S	B.2.24 * B.2.34 * B.2.42 * B.3.20
16852	KIT, seal repair - return filter	E.1.4
16858	GUARD, rear window	G.2.10
16879	DECAL, sight gauge	H.1.28
16886	NIPPLE, close - 1/4" x 2-1/2"	G.5.10
16910	TAP, gauge port - 1/8" pipe thread	B.2.12 * B.2.14
16911	CONNECTOR, straight - 7455-2-10mm	B.2.12 * B.2.14
16916	DECAL, master disconnect	H.1.28
16918	O-RING - 3/4" SF	B.2.46 * D.2.4
16925	BOTTLE, overflow	E.1.16 * F.2.12
16935	WASHER, SAE flat - 1-1/8"	G.1.4
16936	KEY, ignition	J.3.2
16951	BRACKET, water hose support	F.3.24 * F.3.26
16956	ELBOW, 90 black street - 2-1/2"	B.2.2
16957	NIPPLE, king - 2-1/2"	B.2.2
16966	ANTENNA, radio	J.3.28
16977	CONNECTOR, straight - coolant orifice	F.3.28
16989	CONNECTOR, straight hose barb - 4245-5-2	F.3.28
16990	CONNECTOR, straight hose barb - 4244-5-4	F.3.28
17004	KIT, seal repair	C.2.2
17015	BUSHING, reducer - 6410-20-16	B.2.18 * B.3.6 * B.3.8 * B.3.22A
17016	CONNECTOR, flange pad - 1-1/4"	B.3.14 * B.3.16
17053	BUSHING, reducer - 64105-24-20	B.3.6
17055	ELBOW, 90 - FF1868T-2020S	B.3.12 * B.3.16
17057	CONNECTOR, straight - FF2031T-23020S	B.2.20 * B.2.22
17065	WASHER, rubber	G.1.4
17082	COMPENSATOR	C.2.2
17114	STRAINER, fuel system	F.1.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
17115	RING, snap - fuel strainer retainer	F.1.2
17118	SWITCH, hydraulic oil level	E.1.14
17145	CONNECTOR, hirschmann	J.2.8 * J.5.8
17156	STEM, pressure relief cap	E.1.14 * E.1.16
17160	DECAL, hydraulic oil selection guide	H.1.26
17189	O-RING	C.2.2
17202	MUFFLER	F.4.24
17206	BRACKET, terminal bracket support	J.1.14
17208	WIRE, 8 gauge	E.1.18
17218	TERMINAL, ring	E.1.18
17223	TERMINAL, ring	E.1.18
17226	CONNECTOR, butt	E.1.18
17235	GUARD, cab-side pump compartment	H.1.10
17247	BOLT - 1-1/8" x 7-1/2"	G.1.4
17248	NUT, lock - 1-1/8"	G.1.4
17254	SCREW, self-tapping - #10-24 x 1/2"	G.4.4 * G.4.6 * G.4.8 * J.3.12
17255	SCREW, self-tapping - #10-24 x 3/4"	G.4.4
17257	CLAMP, coated hose - 1-1/2"	F.2.4 * F.2.4A * F.3.24 * F.3.26 * J.1.6 * J.1.8
17270	STARTER - 12V	F.3.8
17271	FILTER, screen - fuel system	F.1.4
17323M	COVER. dust - quick-disconnect	B.2.20 * B.2.22 * E.1.22
17307M	QUICK-DISCONNECT - 1/2"	B.2.20 * B.2.22 * E.1.22
17309	BOLT, compensator mounting	C.2.2
17319	RING, retaining	C.2.2
17344	CONNECTOR, straight - FF1852T-2020S	B.2.18 * B.2.22 * B.3.12 * B.3.14
17347	HOSE ASSEMBLY - 4060-12-120S-120S-W	B.2.42
17358	FLOORMAT, door tray	G.3.2
17360	HOSE ASSEMBLY - 2044-04-04PS-04JS	H.2.8
17394	CABLE, starter ground	J.1.14
17428	KIT, auxiliary pad drive - SAE "A"	F.3.8
17430	WIRE HARNESS, engine "B"	J.1.20
17443	WIRE HARNESS, engine "A"	J.1.18
17449	LOOM, split - 1/2"	E.1.16 * F.2.12 * J.3.14
17457	ADAPTER, 45 flange - 3/4"	B.2.46

<u>Part #</u>	<u>Description</u>	<u>Location</u>
17460	ELBOW, 90 street - 5502-8-8	G.5.16
17483	HOSE ASSEMBLY - 4019-08-080S-0809	B.4.12 * B.4.14
17487	ELBOW, 90 - 5500-8	B.2.20 * B.2.22
17492	DIPSTICK - fuel level	F.1.2
17499	PINION, swing motor	H.1.4
17506	INSULATION, soundproof - cab-side engine pivot guard	H.1.10
17507	INSULATION, soundproof - pump gaurd	H.1.10
17537	CLAMP, hose - worm style - 1-1/8"	E.1.22
17541	O-RING	E.1.14
17547	MANIFOLD, return line	B.1.12 * B.2.4 * B.2.20 * B.2.22 * B.3.8
17572	SLEEVE, protective hose	B.3.2 * B.3.2A * E.1.22 * F.3.14 * F.4.16 * G.4.14 * G.4.18
17575	DECAL, fire suppression tank	H.1.28
17584	BUSHING, reducer - 7455-8-22mm	B.2.50
17585	BUSHING, reducer - 7455-6-16mm	B.2.52
17599	SCREW, adjustment	C.2.2
17600	NUT, seal	C.2.2
17610	ELBOW, 45 - 5501-16	B.3.2
17630	SCREEN, radiator protection	H.1.12
17634	BOLT, flat head socket - 14mm-2.0P x 30mm	H.1.4
17637	WASHER, pinion	H.1.4
17642	OIL COOLER	F.2.2
17667	MANIFOLD, case drain	E.1.2
17670	ELBOW, 90 swivel - FF2098T-1212S	B.1.2 * B.2.44 * B.3.20
17674	VALVE, pilot pressure relief	D.1.2
17682	ELBOW, 90 swivel - FF2098T-1616S	B.2.20 * B.2.22
17687	TEE - FF2114T-1212S	B.2.10 * B.3.18 * B.3.20
17688	ELBOW, 90 - FF1868T-1212S	B.2.8 * B.2.34 * B.3.18 * E.1.20
17692	FILTER, return	E.1.4
17747	TUBE, heater	E.1.22
17748	SCREW, bleeder	E.1.22
17749	ELBOW, 90 brass	E.1.22
17750	TEE	E.1.22
17752	VALVE, pilot pressure manifold	D.1.4

<u>Part #</u>	<u>Description</u>	<u>Location</u>
17761	HOSE, 90 radiator - 2"	F.3.24 * F.3.26
17767	TUBE, radiator splice	F.3.24
17768	TEE - 6855-6-4	B.1.4
17776	SPACER, rubber radiator / oil cooler mount	F.2.10
17780	SEAL, shaft	C.2.4
17781	O-RING, brake piston	C.2.4
17790	GASKET	C.3.6
17797	COIL, pilot pressure manifold - 12V	D.1.4
17798	CARTRIDGE, solenoid valve	D.1.4
17799	KIT, seal repair - relief valve cartridge	D.1.4
17812	CARTRIDGE, relief valve	D.1.2
17820	MEMBER, radiator support	H.1.12
17825	TUBE, air cleaner extension	F.4.22
17833	RING, snap - 3" spherical bushing	H.4.8
17837	NOZZLE, cone - 1/2"	G.5.16
17876	PISTON	E.2.8
17877	BEARING, rod	E.2.8
17879	NUT, cylinder rod - 1-3/8"	E.2.8
17891	GUARD, A/C compressor belt	F.3.6
17895	LATCH, door	G.1.6
17896	STRIKER, door latch	G.1.6
17897	HANDLE, inside door	G.1.6
17904	ISOLATOR, engine mount - rear	F.3.2 * F.4.2 * K.1.6
17918	WASHER, isolator mount - 7/8" x 3-1/2"	F.3.2 * F.4.2 * K.1.6
17934	VALVE, relief - thermal bypass	F.2.2
18006	BELT, seat - 3" wide	G.3.10
18050	PIN, chromed - 3" x 20"	H.2.4
18053	PIN, chromed - 3" x 14-1/2"	H.2.6
18065	HOSE ASSEMBLY - 2013-04-04PF-0409	B.1.8
18066	DECAL, tapered hub torque	H.1.24 * H.1.26
18069	DECAL, hydrostatic bleed caution	H.1.26 * H.1.28
18071	DECAL, engine oil selection guide	H.1.26
18075	DECAL, pump/motor case drain	H.1.26
18076	COVER, in-tank hydraulic oil heater	E.1.22

<u>Part #</u>	<u>Description</u>	<u>Location</u>
18084	CONNECTOR, straight - FF2000T-1212S	B.4.4 * B.4.6
18087	FAN SHROUD KIT	F.2.6
18089	RADIATOR / OIL COOLER ASSEMBLY	F.2.2
18090	RADIATOR	F.2.2
18092	COMPRESSOR, air conditioner	F.3.4
18104	CLAMP, constant torque - #36	F.3.24 * F.3.26 * F.3.28
18107	HOSE, filter connection	E.1.2
18126	WEATHERSTRIP	G.1.2 * G.1.6 * G.2.6 * H.1.12 * H.1.14
18135	CAP, pressure relief - 13 psi	E.1.14 * E.1.16
18142	WASHER, cab mount isolator	G.1.4
18167	GAUGE, engine oil pressure	J.3.2
18168	GAUGE, engine water temperature	J.3.2
18169	GAUGE, hydraulic oil temperature	J.3.2
18170	GAUGE, return filter back pressure	E.1.8 * J.3.2
18171	CLUSTER, warning light - left mounting	J.3.4
18173	LENS, indicator light - red	J.3.4
18174	LENS, indicator light - yellow	J.3.4
18175	LENS, indicator light -red	J.3.4 * J.3.6
18178	LENS, indicator light - green	J.3.6
18180	SWITCH, rocker - momentary	J.3.6
18181	SWITCH, rocker - ON/OFF	J.3.4 * J.3.6
18182	SWITCH, rocker - parking brake	J.3.6
18183	STIFFENER, latch bolster	G.1.6
18187	SPOOL, pressure limiter	C.2.2
18188	COVER, access - hydraulic tank heater	E.1.22
18189	LEXAN, light guard - double	G.2.4
18190	LEXAN, chin window	G.2.4
18192	O-RING	C.2.2
18193	O-RING	C.2.2
18194	PLUG	C.2.2
18195	PLUG	C.2.2
18198	SPOOL, load sense	C.2.2
18199	PIN	C.2.2
18200	SPRING, control	C.2.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
18201	GUIDE, spring	C.2.2
18212	COVER, foot pedal access	H.1.22
18214	BRACKET, cab ROPS/FOPS support	G.1.4
18221	CABLE, throttle	F.3.16 * F.4.18
18225	MOUNT, engine - RH front	F.4.2
18229	BAR, muffler support	F.4.24
18232	BRACKET, terminal bracket support	J.1.16
18233	BRACKET, throttle cable mount - engine	F.4.18
18235	COVER, oil pump access	H.1.22
18237	PANEL, muffler	H.1.18
18238	PANEL, air cleaner	H.1.18
18248	COVER, grease cup	H.1.6
18253	NUT, lock - 1"	G.1.4 * K.1.2 * K.1.4
18258	SHROUD, radiator - LH upper	F.2.6
18259	SHROUD, radiator - RH upper	F.2.6
18260	SHROUD, radiator - LH lower	F.2.6
18261	SHROUD, radiator - RH lower	F.2.6
18262	GUARD, fan - upper	F.2.6 * F.2.8
18263	EXTENSION, fan box	F.2.2
18270	SHIM, door latch striker - 3/16"	G.1.6
18271	SHIM, door latch striker - 1/4"	G.1.6
18272	SHIM, door latch striker - 18"	G.1.6
18273	BOLT - 1/4" x 2-3/4"	G.1.6
18277	GASKET, heater tube	E.1.22
18288	FRAME, rocker switch mounting - end	J.3.4 * J.3.6 * J.3.8
18289	FRAME, rocker switch mounting - center	J.3.6 * J.3.8
18290	INSERT, rocker switch blank	J.3.6
18294	ELBOW, 90 brass	E.1.22
18295	BOLT, allen head - 1/2" x 1"	E.1.22
18298	SCREW, slotted hex head - #10-24 x 3/4"	E.1.22 * J.2.2
18300	IN-TANK HYDRAULIC OIL HEATER ASSEMBLY	E.1.22
18305	SPACER, bolt	H.1.4
18306	KIT, split flange - 3"	B.2.2A
18309	BOLT, 1/4" x 1-1/4"	G.2.2 * G.2.4

<u>Part #</u>	<u>Description</u>	<u>Location</u>
18336	BATTERY, 12V	J.1.2 * J.1.4
18337	DECAL, California diesel exhaust warning	H.1.24
18342	BELT, A/C compressor drive	F.4.6
18343	BELT, engine fan	F.4.6
18344	BELT, water pump	F.4.6
18345	HOSE, 90 lower radiator	F.4.26 * F.4.28
18346	HOSE, upper radiator	F.4.30
18347	ELBOW, exhaust	F.4.24
18349	FILTER, engine oil	F.4.8
18350	FILTER, fuel	F.4.14
18379	BOLT - 14mm-2.0P x 35mm	F.4.2
18382	CLAMP, turbo exhaust	F.4.24
18385	STUD, threaded - 3/8" x 3/8" x 1-3/4"	F.4.12
18387	COUPLING, black pipe - 4"	F.4.24
18390	SHIM, door latch striker - 5/16"	G.1.6
18395	SPACER, engine fan	F.3.6
18402	NUT, nylock - 1-3/4"	H.3.8 * H.3.10
18416	BOLT - 10mm-1.5P x 25mm	F.3.22 * F.4.4
18417	BOLT - 10mm x 75mm	F.3.6
18418	WASHER, flat - 14mm	F.4.2
18420	FITTING, grease - 1/4-28"	K.1.8 * K.1.10
18421	BOLT - 10mm x 60mm	F.3.6
18437	CABLE, battery - positive	J.1.6 * J.1.8
18438	CABLE, battery - negative	J.1.6
18448	PUMP, charge	B.3.2 * B.3.2A
18449	VALVE, swing motor anti-cavitation	D.2.4
18453	BRACKET, battery box	J.1.2
18454	BRACKET, battery hold-down	J.1.2 * J.1.4
18455	BRACKET, charge filter & electric fill pump mounting	B.3.4 * E.1.20
18456	BRACKET, charge filter mounting angle	B.3.4
18459	SUPPORT, hydraulic tank	E.1.6
18460	COUPLING, pipe - 2-1/2"	B.2.2
18467	COVER, foot shuttle valve access	H.1.8
18472	COVER, fuel tank w/adaptor	F.1.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
18480	TANK, fuel	F.1.2
18481	ELBOW, 90 - FF2032T-0606S	F.3.14 * F.4.16
18483	INSULATION, soundproof - fuel tank mount	F.1.2
18490	GUARD, pilot pressure valve manifold	H.1.8
18532	WASHER, SAE flat - 1" extra thick	H.1.2
18535	BOLT - 1" x 5"	G.1.4 * H.1.2
18557	COVER, brake piston	C.2.4
18570	WASHER, pin retaining	H.3.4 * H.6.2 * H.7.4 * H.7.6
18571	HOSE ASSEMBLY - 2030-06-060S-060S	F.4.16
18573	ELBOW, 90 swivel - 879-TT-20	B.3.12
18575	BRACKET, hydraulic tank support angle	E.1.6
18581	CONNECTOR, reducer - FF2281T-0812S	B.2.44 * B.2.46
18582	CONNECTOR, straight bulkhead - FF1994T-0404S	B.3.30 * B.3.40 * B.3.50
18584	MANIFOLD, return oil	B.1.2 * B.2.50
18586	CABLE, battery master disconnect	J.1.6 * J.1.8
18589	HARNESS, wire	J.5.5
18635	COVER, tank access	E.1.2
18641	CLAMP, constant torque - #32	F.4.30
18651	CLAMP, constant torque - #32	F.3.24 * F.3.26 * F.3.28 * F.4.26 * F.4.28
18660	DECAL, control diagram	H.1.24
18677	PANEL, air cleaner	H.1.18
18684	COIL, solenoid - 12V	D.3.4
18695	O-RING - 3" SF	B.2.2A
18699	HARNESS, wiring - lower light	J.3.22
18709	WASHER, articulation pin	H.4.10
18712	GUARD, light	G.3.12
18714	FAN SHROUD KIT	F.2.8
18735	WASHER, flat - 12mm	F.3.2 * J.1.6 * J.1.8 * J.1.14
18743	ELBOW, 90 - 2725-FSO-2420	B.2.20 * B.2.22 * B.4.8
18745	ENGINE, Cummins - C8.3-C 260HP	F.3.2
18748	PUMP, loader implement - Vickers PVH98	C.2.2
18768	MANIFOLD, fire distribution assembly	G.5.14
18769	MANIFOLD, fire "S"	G.5.16
18770	BRACKET, hydraulic fill termination	E.1.20

<u>Part #</u>	<u>Description</u>	<u>Location</u>
18772	TUBE, diffuser	E.1.4
18777	WASHER, flat - 16mm	F.4.2 * J.1.16
18796	KIT, auxiliary drive - SAE "A"	F.4.10
18798	SHIM, radiator / oil cooler mount	F.2.10
18815	ELBOW, exhaust	F.3.22
18816	CONNECTOR, air intake	F.3.20
18818	GUARD, air cleaner brush	F.3.20
18819	TUBE, air cleaner extension	F.3.20
18820	FILTER, air cleaner - primary	F.3.18
18821	FILTER, air cleaner - secondary	F.3.18
18822	MUFFLER	F.3.22
18824	LIGHT	J.3.4 * J.3.6 * J.3.8
18827	BRACKET, top muffler	F.3.22 * F.4.24
18828	CLAMP, strap band - 6-3/4"	F.3.20
18830	CLAMP, muffler mount - 5"	F.3.22 * F.4.24
18833	GUARD, air cleaner brush	F.4.22
18834	BEARING, articulation	H.4.10
18835	VALVE, brake control	D.3.2
18845	BRACKET, throttle cable mount - engine	F.3.16
18846	BRACKET, throttle cable linkage	F.3.16
18862	ACCUMULATOR	B.1.10
18865	VALVE, frame lock	D.3.4
18888	BRACKET, terminal	J.1.10
18895	PIN, chromed - 2-1/2" x 13-7/8"	H.2.6 * H.3.6
18897	PIN, frame lock cylinder mounting	H.4.12
18902	COMPRESSOR, air conditioner	F.4.2
18903	HOSE ASSEMBLY - 2066-20-200S-200S	B.2.20
18910	ELBOW, 90 rubber	F.3.20
18925	MOUNT, engine - LH rear	F.4.2
18928	BOLT - 16mm-2.0P x 45mm	F.4.2
18933	BOLT - 1/2" x 1-3/4"	B.2.2 * B.3.12
18944	ELEMENT, fuel/water separator	F.4.14
18945	PUMP, charge	B.3.2 * B.3.2A
18949	PLUG - 6408-HHP-8	D.3.4

<u>Part #</u>	<u>Description</u>	<u>Location</u>
18950	PLUG - 6408-HHP-20	C.3.2
18965	BOLT, allen head - 8mm-1.25P	D.3.2
19007	HOSE ASSEMBLY - 4055-12-120S-1209	B.2.26
19019	LEXAN, RH corner window	G.2.2
19023	FRAME, right corner window	G.2.2
19028	CABLE, battery - negative	J.1.8
19036	HOSE ASSEMBLY - 2026-04-02PS-02PS	H.1.6
19046	SHROUD, radiator - LH upper	F.2.8
19047	SHROUD, radiator - RH upper	F.2.8
19048	SHROUD, radiator - LH lower	F.2.8
19049	SHROUD, radiator - RH lower	F.2.8
19050	BRACKET, battery box	J.1.4
19066	PEDAL ASSEMBLY	D.3.2
19072	BOLT - 7/8" x 5-1/2"	H.4.8 * H.4.10
19090	HARNESS ASSEMBLY, main engine wiring	J.1.10 * J.1.12 * J.1.18 * J.1.20 * J.1.22
19092	CONNECTOR, straight long - FF1854T-1212S	B.4.4 * B.4.6
19117	BUSHING - 1-3/4" x 1-1/2"	H.3.8
19118	BUSHING - 45mm x 1-1/2"	H.3.8
19119	CAP, overflow bottle	E.1.16 * F.2.12
19123	DANGLE BLOCK ASSEMBLY	H.3.8
19127	ELBOW, 45 - FF2068T-1212S	B.2.8 * B.2.42 * B.4.2 * B.4.2 * B.4.8
19128	ELBOW, 90 - FF1868T-1216S	B.3.22
19137	HOSE ASSEMBLY - 2024-08-08PS-08PS	G.5.16
19150	SHIM - 1/4" thick	H.2.4 * H.3.4
19162	BRACKET, foot pedal control	G.3.12
19163	BOOT, rubber air intake	F.3.20
19179	CONNECTOR, VOAC valve	J.2.8 * J.2.10
19180	CONTROL BOX - 4 function	J.2.2
19181	CONTROL BOX - 3 function	J.2.2
19182	HAND CONTROL, electronic - 3-axis	J.2.2
19183	BRACKET, return manifold mount	B.2.22
19186	FILTER, fuel	F.3.12
19196	BOLT - 10mm x 120mm	B.2.46
19199	SWING-OUT ENGINE GUARD ASSEMBLY	H.1.16

<u>Part #</u>	<u>Description</u>	<u>Location</u>
19200	LATCH, toggle	H.1.16
19201	MOTOR, swing - Poclain	C.2.4
19205	GAUGE, pressure - 10,000 PSI	B.3.24
19207	STUD - 5/8" x 5-1/4"	H.2.2
19210	PIN, floating bunk - 2"	H.6.2
19211	HOSE ASSEMBLY - 2041-06-06PS-06PS	F.1.4
19215	ELBOW, pushlock	F.1.6
19217	SPACER, radiator - 1/2"	F.2.10 * H.6.6
19218	SPACER, radiator - 5/8"	F.2.10
19219	SPACER, radiator - 3/4"	F.2.10
19200	LATCH, toggle	H.1.16
19210	PIN, floating bunk - 2"	H.7.6
19220	VALVE, mono-block valve	D.1.6
19222	ROD ASSEMBLY	E.2.2
19223	BEARING, rod	E.2.2
19225	BARREL ASSEMBLY	E.2.2
19227	ROD ASSEMBLY	E.2.8
19228	BARREL ASSEMBLY	E.2.8
19229	ROD ASSEMBLY	E.2.4
19230	BEARING, rod	E.2.4 * E.2.4A
19232	NUT, cylinder rod - 1-3/4"	E.2.4 * E.2.6
19233	BARREL ASSEMBLY	E.2.4
19235	ROD ASSEMBLY	E.2.6
19236	BEARING, rod	E.2.6
19238	BARREL ASSEMBLY	E.2.6
19248	HANDLE, outside door	G.1.6
19253	COVER, pump access	H.1.22
19254	BRACKET, joystick mounting	G.3.10
19261	HOSE ASSEMBLY - 2022-08-080S-0804	E.1.20
19262	HOSE ASSEMBLY - 2075-12-120S-1204	E.1.20
19265	HOSE ASSEMBLY - 4052-08-08POS-08PS	G.5.16
19270	CARTRIDGE, anti-cavitation	D.2.4
19271	PLUG - 6408-HHP-10	C.3.4 * D.2.4
19272	KIT, seal repair - anti-cavitation cartridge	D.2.4

<u>Part #</u>	<u>Description</u>	<u>Location</u>
19279	BUSHING, reducer - 6410-12-16	B.2.10
19286	HEATER ASSEMBLY	E.1.24
19295	ISOLATOR, cab mount	G.1.4
19300	VALVE, 3-way	B.4.10
19303	VALVE, shuttle - load sense signal	B.2.12 * B.2.14 * B.4.10
19307	BRACKET, control box mounting	J.2.2
19313	DECAL, pump suction	H.1.28
19316	CASTING, frame articulation	H.4.8
19318	BUSHING, black reducer - 3" x 1"	E.1.24
19324	CLAMP, tubeline - 3/4" x 3/4"	H.2.2
19330	PIN, articulation - 3" x 8-5/8"	H.4.10
19331	PANEL, ROPS/FOPS	H.1.20
19357	CIRCUIT BOARD, amplifier - 12V	J.2.2
19358	CIRCUIT BOARD, amplifier - 24V	J.2.2
19359	CIRCUIT BOARD, input - 12V	J.2.2
19360	CIRCUIT BOARD, input - 24V	J.2.2
19361	NUT, lug	K.1.2 * K.1.4
19362	LIGHT, gauge	J.3.2
19364	DECAL, welding notice	H.1.24 * H.1.28
19366	CONNECTOR, straight - 6403-NWO-6	B.2.14 * B.4.10
19368	ELBOW, steel air intake	F.4.22
19383	BEARING, pillow block	K.1.8 * K.1.10
19384	WASHER, burned	H.3.4
19390	LIGHT, rectangular - dual lamp	H.1.20
19437	BUSHING, spherical - 1-1/2"	E.2.8
19439	BRACKET, main control valve mounting	B.2.6
19443	BRACKET, rotary manifold mounting	H.1.2
19447	CLAMP, accumulator mounting	B.1.10
19450	CONNECTOR, straight - 16-20 F5OLO-S	B.2.18
19464	HARNESS, wire - 2-speed shift	J.3.18
19470	CONNECTOR, straight - 4M14F8OMLO-S	B.3.28 * B.3.30 * B.3.38 * B.3.40 * B.3.48 * B.3.50
19473	CONNECTOR, straight - 6403-16	B.2.18
19476	NIPPLE, king - 4601-16	B.3.2 * B.3.2A * B.3.6
19477	DECAL, cold start pump de-stroke	H.1.28

<u>Part #</u>	<u>Description</u>	<u>Location</u>
19486	WASHER, thrust - thin	H.4.10
19487	WASHER, thrust - thick	H.4.10
19489	HARNESS, wire - VOAC RH hand control	J.2.10
19490	HARNESS, wire - VOAC LH hand control	J.2.8
19491	O-RING, thru drive pilot	C.3.8
19492	CONNECTOR, straight w/orifice- 8-8F40ML0-S	B.2.40
19493	CONNECTOR, straight - 8-8-F40ML0-S	B.2.32
19503	PANEL, muffler	H.1.18
19507	GAUGE, fuel level	F.1.2
19539	DECAL, emergency escape	H.1.24
19540	DECAL, emergency escape - 1-1/2"	H.1.24
19542	PIN, clam cylinder base	H.7.4
19544	PIN, clam bunk pivot	H.7.6
19546	PIN, clam arm	H.7.4
19550	AIR CLEANER ASSEMBLY	F.3.18
19551	NUT, wing - air cleaner	F.3.18
19562	COVER, access - ROPS panel	H.1.20
19573	PISTON	E.2.10
19578	CLAMP, strap band - 1-3/4"	B.3.6
19581	HARNESS, wire - visor light	J.3.24
19592	ELBOW, 45 swivel - FF2133T-1212S	B.2.48
19613	WASHER, flat - 1-1/2"	H.7.6
19614	NUT, lock - 1-1/2"	H.7.6
19619	KIT, seal repair - frame lock cylinder	E.2.8
19626	BRACKET, seat mounting	G.3.10
19631	BEARING, swing	H.1.2
19633	KIT, seal repair - rotary manifold	D.2.2
19677	PROTECTOR, spiral hose wrap - 1-1/4"	B.2.30 * B.2.32 * B.2.38 * B.2.40
19678	DECAL, maximum tire inflation	H.1.24
19683	ELBOW, 45 - FF2068T-0404S	B.3.26
19692	PLUG, - 26mm-1.5P	C.3.12
19711	PANEL, dash	J.3..2
19716	PIN - 1-3/4" x 10-3/4"	H.3.8 * H.3.10
19738	CLAM ARM CYLINDER ASSEMBLY	E.2.10

<u>Part #</u>	<u>Description</u>	<u>Location</u>
19742	PISTON	E.2.2
19743	PISTON	E.2.4 * E.2.6
19744	MAIN BOOM CYLINDER ASSEMBLY	E.2.2
19745	STICK BOOM CYLINDER ASSEMBLY	E.2.4
19746	STEER CYLINDER ASSEMBLY	E.2.6
19747	FRAME LOCK CYLINDER ASSEMBLY	E.2.8
19748	KIT, seal repair - main boom cylinder	E.2.2
19749	KIT, seal repair - stick boom cylinder	E.2.4
19750	KIT, seal repair - steer cylinder	E.2.6
19754	CONNECTOR, straight bulkhead - 12WLO-WLNL-S	B.2.44
19758	GUARD, swing bearing grease port	H.1.6
19761	MOUNT, engine - LH rear	F.3.2
19762	MOUNT, engine - RH rear	F.3.2
19765	DECAL, keep clear of moving parts	H.1.28
19766	PANEL, muffler	H.1.18
19767	PANEL, air cleaner	H.1.18
19771	LATCH, cam - swing-out pump guard	H.1.14
19772	LATCH, cam - radiator guard	H.1.12
19773	GUARD, swing-out pump	H.1.14
19774	GUARD, swing-out radiator	H.1.12
19788	ROTATOR - HULTDINS GV15US	H.3.10
19789	PIN, grapple mount	H.3.8 * H.3.10
19790	SNUBBER	H.3.10
19791	TIRE - 54 x 37"/12 ply	K.1.12
19799	TIRE/TUBE - 18.426/10 ply	K.1.16
19800	TIRE/TUBE - 23.1-26/14 ply	K.1.14
19802	TIRE/TUBE - 28L-26/14 ply	K.1.12
19803	RIM, wheel - 54 x 37"	K.1.12
19804	RIM, wheel - 18.4-26	K.1.16
19813	BOLT, allen head - 1" x 4-1/4"	H.1.2
19814	BOLT, allen head - 1" x 4"	H.1.2
19816	TIRE - 700/50-26.5"/20 PLY	K.1.12
19817	COVER, access - front frame axle	H.4.6
19847	Plug - 6408-hhp-16	C.3.4

<u>Part #</u>	<u>Description</u>	<u>Location</u>
19878	FILTER, hydraulic - spin-on	C.3.10
19879	TRIM, panel - door	G.3.2
19880	TRIM, formed - door post	G.3.2
19881	TRIM, formed - RH rear post	G.3.2
19882	TRIM, formed - LH rear post	G.3.2
19887	FLOORMAT, cab	G.3.2 * H.1.6
19895	DRIVE SHAFT ASSEMBLY - COMPLETE	K.1.10
19895-1	DRIVE SHAFT	K.1.8
19895-3	DRIVE SHAFT	K.1.8
19895-4	DRIVE SHAFT	K.1.10
19895-5	DRIVE SHAFT	K.1.10
19897	BOLT - 1" x 29"	K.1.2 * K.1.4
19898	BOLT - 27mm-3.0P x 160mm	J.3.12 * K.1.4
19899	WASHER, hardened flat - 27mm	K.1.2 * K.1.4
19900	MOTOR, wheel drive - Rexroth AA6VM160	C.3.12 * C.3.14
19901	MOTOR, wheel drive - Rexroth AA6VM160	C.3.12 * C.3.14
19908-L	WHEEL ASSEMBLY, 28L-26 - LH	K.1.12
19908-R	WHEEL ASSEMBLY, 28L-26 - RH	K.1.12
19909-L	WHEEL ASSEMBLY, 54 x 37" - LH	K.1.12
19909-R	WHEEL ASSEMBLY, 54 x 37" - RH	K.1.12
19910-L	WHEEL ASSEMBLY, 18.4-26 - LH	K.1.16
19910-R	WHEEL ASSEMBLY, 18.4-26 - RH	K.1.16
19911-L	WHEEL ASSEMBLY, 23.1-26 - LH	K.1.14
19911-R	WHEEL ASSEMBLY, 23.1-26 - RH	K.1.14
19912	BOLT, allen head - 5/8" x 2-1/4"	E.2.2
19915	RING, snap	E.2.8
19916	RING, snap	E.2.6 * E.2.10
19917	BUSHING, spherical - 2"	E.2.6 * E.2.10
19920	RIM, wheel - 23.1-26	K.1.14
19960	BARREL ASSEMBLY	E.2.10
19962	BEARING, rod	E.2.10
19963	ROD ASSEMBLY	E.2.10
19964	KIT, seal repair - steer/clam arm cylinder	E.2.10
19968	SPEAKER	J.3.28

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20001	HOSE ASSEMBLY - 2082-04-040S-0409	B.2.54
20006	WHEEL ASSEMBLY, 700/50-26.5" - LH	K.1.12
20007	WHEEL ASSEMBLY 700/50-26.5" - RH	K.1.12
20015	HARNESS, wire - 2-speed shift	J.3.16
20018	STEM, valve	K.1.12
20044	PIN, boom knuckle - 3"	H.3.4
20047	PEDAL, foot control - electronic	J.2.6
20048	BUSHING - 3" x 2"	H.3.2
20049	SPACER, nose - 3" x 1-1/2"	H.2.2
20068	BUSHING, black reducer - 3" x 1-1/4"	E.1.24
20069	HEATER ASSEMBLY	E.1.24
20071	HOSE ASSEMBLY - 2032.5-08-10JS-10JS	G.1.2
20072	WELDMENT, swing-out engine guard	H.1.16
20078	LANYARD, lock	H.1.16
20080	HOSE ASSEMBLY - 2071-04-040S-040S	B.1.2
20082	HOSE ASSEMBLY - 2036.5-04-040S-0409	B.1.4 * B.2.12 * B.2.14
20083	HOSE ASSEMBLY - 4039-08-080S-0809	B.1.6
20084	BOLT - 3/8" x 1-3/4"	H.3.12
20087	HOSE ASSEMBLY - 2125-06-060S-0609	B.3.32
20088	HOSE ASSEMBLY - 2050-08-080S-0809	B.1.10
20092	HOSE ASSEMBLY - 2091-06-060S-0609	B.3.34
20094	HOSE ASSEMBLY - 2064.5-08-080S-080S	B.1.12
20096	DECAL, clam bunk arm control	H.1.24
20099	HOSE ASSEMBLY - 4018-12-120S-1209	B.2.8
20100	HOSE ASSEMBLY - 2021.5-12-120S-1209	B.2.10
20103	HOSE ASSEMBLY - 2052-04-040S-040S	B.2.16
20105	HOSE ASSEMBLY - 2050-12-160S-1609	B.2.20 * B.2.22
20106	HOSE ASSEMBLY - 2070-20-200S-2004	B.2.22
20107	BRACKET, return manifold mount	B.2.20
20108	HOSE ASSEMBLY - 4069-12-120S-120S	B.2.24
20109	HOSE ASSEMBLY 4067-12-120S-120S	B.2.24
20110	HOSE ASSEMBLY - 4057-12-120S-120S	B.2.26
20111	HOSE ASSEMBLY - 4069-08-080S-0809	B.2.28
20112	HOSE ASSEMBLY - 4045.5-08-080S-0804	B.2.30 * B.2.38

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20113	HOSE ASSEMBLY - 4047-08-080S-0804	B.2.30 * B.2.38 * B.4.12
20116	HOSE ASSEMBLY - 4130.5-12-120S-120S	B.2.34
20117	HOSE ASSEMBLY - 4128.5-12-120S-120S	B.2.34
20118	HOSE ASSEMBLY - 4067-08-080S-0809	B.2.36
20119	ORIFICE	B.2.40
21137	RIM, wheel - 700/50-26.5" wide	K.1.12
20124	HOSE ASSEMBLY - 4028-08-080S-0809-W	B.2.44
20125	HOSE ASSEMBLY - 4043-08-080S-0809-W	B.2.44
20126	HOSE ASSEMBLY - 2046-12-120S-1204	B.2.48
20127	HOSE ASSEMBLY - 4087-08-080S-0809	B.2.50
20128	HOSE ASSEMBLY - 2076-04-040S-0409	B.2.54
20129	HOSE ASSEMBLY - 4051-08-080S-0804	B.2.46
20130	HOSE ASSEMBLY - 4056.5-08-080S-0804	B.2.46
20132	HOSE ASSEMBLY - 4034-08-080S-0809	B.3.54
20136	HOSE ASSEMBLY - 4088-08-080S-080S	B.3.54
20143	HOSE, suction - 2-1/2" x 13-1/2"	B.2.2
20144	HOSE ASSEMBLY - 2036-12-120S-1209	B.3.8
20162	HOSE ASSEMBLY - 2104-04-040S-040S-W	B.3.50
20165	HOSE ASSEMBLY - 2049.5-04-040S-040S-W	B.3.36
20167	HOSE ASSEMBLY - 2009.5-04-040S-0409	B.3.28 * B.3.30 * B.3.38 * B.3.40
20176	HOSE ASSEMBLY - 2062-04-040S-0409-W	B.3.46
20180	HOSE ASSEMBLY - 2037-04-04PS-04PS	E.1.10 * E.1.12
20182	HOSE ASSEMBLY - 4063-12-120S-1209	B.4.2
20184	HOSE ASSEMBLY - 4087.5-12-120S-1209	B.4.6
20189	HOSE ASSEMBLY - 4086.5-12-120S-1209	B.4.4
20194	HOSE ASSEMBLY - 2017.5-04-040S-0409	B.4.10
20195	HOSE ASSEMBLY - 4031-08-080S-0809	B.4.12 * B.4.14
20196	CONNECTOR, straight bulkhead - FF1994T-0808S	B.4.12 * B.4.14
20197	HINGE, weld-on	H.4.2
20198	HOSE ASSEMBLY - 4045-08-080S-0804	B.4.12
20199	HOSE ASSEMBLY - 4046-08-080S-0804	B.4.14
20201	HOSE ASSEMBLY - 4048-08-080S-0804	B.4.14
20204	PIN, grapple mount	H.3.8
20205	NUT, grapple mount pin	H.3.8

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20206	WASHER, grapple mount pin	H.3.8
20208	COVER, access - frame side	H.4.4
20209	RETAINER, rubber step	H.4.2
20210	STEP, rubber	H.4.2
20211	BRACKET, hydraulic tank exterior mounting	E.1.6
20212	COVER, access - front drive motor	H.4.4
20213	COVER, access - rear drive motor	H.4.4
20214	COVER, access - condenser	G.1.2
20216	BRACKET, fire suppression mounting	G.1.2
20217	COVER, access - turntable riser	H.4.4
20222	FAN, engine - blower - 28" high pitch	F.4.6
20225	TRIM, panel - RH light	G.3.2
20226	TRIM, panel - A/C - RH	G.3.2 * G.4.4
20227	TRIM, panel - rear bottom	G.3.2
20228	TRIM, panel - A/C - LH	G.3.2 * G.4.4
20229	TRIM, panel - rear top	G.3.2
20230	FLOORMAT, rear shelf	G.3.2 * G.4.4
20231	TRIM, panel - LH bottom	G.3.2
20232	TRIM, panel - LH top	G.3.2
20233	TRIM, panel - headliner roof beam	G.3.4
20234	TRIM, panel - headliner side strip - RH	G.3.4
20235	TRIM, panel - headliner side strip - LH	G.3.4
20236	TRIM, panel - headliner side roof	G.3.4
20244	BELT, hose strap	G.3.10
20245	RIM, wheel - 20.5 x 25	K.1.12
20246	TIRE - 20.5 x 25/20 ply	K.1.12
20247	GASKET	F.1.2
20248	BOLT, allen head - 1/4" x 1/2"	F.1.2
20249	PIN, cotter - 1/4" x 2"	H.7.8
20251	PIN, clam cylinder rod - 2" x 7"	H.7.4
20254	O-RING, ORB - #16	C.3.4
20257	CLAMP	G.4.6
20258	RELAY, travel signal	J.2.8
20261	STEM, valve	K.1.12

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20262	O-RING, wheel	K.1.12
20263	SEALANT	K.1.12
20264-L	WHEEL ASSEMBLY, 20.5 x 25 - LH	K.1.12
20264-R	WHEEL ASSEMBLY, 20.5 x 25 - RH	K.1.12
20270	HOSE ASSEMBLY - 2032-12-120S-120S-W	B.2.4
20286	CARTRIDGE, solenoid valve	D.1.6
20287	CARTRIDGE, solenoid	D.1.6
20288	KIT, seal repair - solenoid cartridge	D.1.6
20289	COIL, mono-block valve - 12V	D.1.6
20290	CARTRIDGE, relief valve	D.1.6
20291	KIT, seal repair - relief valve cartridge	D.1.6
20292	CARTRIDGE, relief valve	D.1.6
20293	KIT, seal repair - relief valve cartridge	D.1.6
20294	KIT, seal repair - solenoid cartridge	D.1.6
20295	COIL, mono-block valve	D.1.6
20296	CARTRIDGE, check valve	D.1.6
20297	KIT, seal repair - check valve cartridge	D.1.6
20298	CARTRIDGE, check valve	D.1.6
20299	KIT, seal repair - check valve cartridge	D.1.6
20305	GUIDE, spring	C.2.2
20306	SPRING, load	C.2.2
20307	PLUG	C.2.2
20308	O-RING	C.2.2
20309	PLUG	C.2.2
20310-L	WHEEL ASSEMBLY, 750/55-26.5" - LH	K.1.12
20310-R	WHEEL ASSEMBLY, 700/50-26.5" - RH	K.1.12
20311	RIM, wheel - 750/55-26-5"	K.1.12
20312	TIRE - 750/55-26.5"/20 ply	K.1.12
20313	TUBE, tire - 750/55-26.5"	K.1.12
20317	PLUG - 12mm-1.5P	C.3.2
20319	O-RING, ORB #4	C.3.4 * D.3.4
20320	O-RING, ORB - #6	C.3.2
20321	O-RING, ORB - #8	D.3.4
20322	O-RING, ORB - #10	C.3.4

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20325	O-RING	C.3.2
20328	KIT, seal repair - compete AA4VG180 pump	C.3.2 * C.3.4 * C.3.6 * C.3.8 * C.3.10
20330	CARTRIDGE, high pressure relief valve	C.3.4
20331	NUT, seal - 10mm-1.0p	C.3.4
20332	O-RING, HPRV cartridge	C.3.4
20333	PLUG - 42mm-2.0P	C.3.4
20334	O-RING, ORB - 42mm-2.0P	C.3.4
20337	O-RING, POR relief valve - body	C.3.4
20338	O-RING, POR relief valve - chamber	C.3.4
20339	PLUG - 8mm-1.0P	C.3.4
20341	VALVE, stroke control - 12V	C.3.6
20342	O-RING, stroke control	C.3.6
20343	O-RING, stroke control	C.3.6
20344	O-RING, stroke control	C.3.6
20345	BOLT, allen head - 6mm x 20mm	C.3.6
20346	LEVER, feedback	C.3.6
20347	PIN, feedback lever	C.3.6
20348	PLUG, retaining	C.3.6
20350	O-RING, stroke control end cover	C.3.6
20354	ARM, lever	C.3.6
20355	COVER	C.3.6
20356	BOLT, allen head - 6mm x 65mm	C.3.6
20358	NUT, seal - 8mm	C.3.6
20359	SCREW, eccentric	C.3.6
20360	VALVE, stroke control - 24V	C.3.6
20361	COIL, solenoid -12V	C.3.6
20362	COIL, solenoid - 24V	C.3.6
20363	BOLT, allen head - 4mm x 50mm	C.3.6
20364	SPRING, feedback	C.3.6
20365	O-RING, filter housing	C.3.10
20366	BOLT, allen head - 8mm x 25mm	C.3.10
20368	O-RING, thru drive wear plate	C.3.8
20369	PLATE, wear - charge pump	C.3.8
20372	RING, retaining	C.3.8

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20385	HOSE ASSEMBLY - 2057-08-08PS-08PS	G.5.16
20396	HOSE ASSEMBLY - 4072-12-120S-1209-W	B.4.8
20397	HOSE ASSEMBLY - 4067.5-12-120S-1209	B.4.4
20398	HOSE ASSEMBLY - 4064.5-12-120S-1209	B.4.6
20415	BOLT - 1-1/2" x 19"	H.7.6
20416	HOSE ASSEMBLY - 2030-06-06PS	F.1.4
20417	BOLT - 8mm-1.25P x 80mm	F.4.6
20421	HARNESS, wire - electronic foot pedal "B"	J.2.8
20423	BRACKET, fuel return junction	F.3.14 * F.4.16
20424	HOSE ASSEMBLY - 2120-06-060S-0609	F.3.14 * F.4.16
20425	HOSE ASSEMBLY - 2120-06-060S-060S	F.4.16
20426	HOSE ASSEMBLY - 2115-06-060S-0604	F.3.14
20429	PUMP, wheel drive - AA4VG180	C.3.2 * C.3.4
20430	RING, snap	C.3.2
20431	SEAL, shaft	C.3.2
20433	PIN, cradle	C.3.2
20434	NUT, seal - 14mm-1.5P	C.3.2
20435	PIN, threaded - 12mm-1.5P	C.3.2
20436	CARTRIDGE, charge pressure relief valve	C.3.4
20437	O-RING, charge pressure relief valve	C.3.4
20438	CHARGE PUMP ASSEMBLY	C.3.8
20439	COUPLING, thru drive	C.3.8
20440	KEY	C.3.8
20441	BOLT, allen head - 10mm	C.3.8
20442	O-RING, gear housing pilot	C.3.8
20443	FLANGE, thru drive	C.3.8
20444	BOLT, allen head - 12mm-1.75P	C.3.8
20445	FILTER, coolant	F.3.8
20448	NUT, air cleaner - secondary	F.3.18
20449	Pin, roll - air cleaner nut	F.3.18
20450	CLAMP, air cleaner band	F.3.18
20451	CANISTER, air cleaner	F.3.18
20452	CLAMP, turbo exhaust	F.3.22
20453	NIPPLE, pipe - 2-1/2" x 6"	B.2.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20457	PROTECTOR, spiral hose wrap - 3-1/2"	B.2.24 * B.2.28 * B.2.36
20458	HOSE ASSEMBLY - 2107-04-040S-040S	B.3.30 * B.3.40
20462	HOSE ASSEMBLY - 2037.5-04-040S-0409	B.3.48
20463	HOSE ASSEMBLY - 2137.5-04-040S-0409	B.3.50
20464	HOSE ASSEMBLY - 2138.5-04-040S-0404	B.3.30
20465	HOSE ASSEMBLY - 2139.5-04-040S-0404	B.3.40
20471	HOSE ASSEMBLY - 2019-08-080S-0809	B.1.12
20473	HOSE ASSEMBLY - 2034.5-12-120S-1209	B.1.2
20475	HOSE ASSEMBLY - 4086-08-080S-0804	B.3.54
20476	HOSE ASSEMBLY - 4110-12-120S-120S-W	B.2.44
20477	HOSE ASSEMBLY - 4112-12-120S-120S-W	B.2.44
20538	HOSE ASSEMBLY - 2089-06-060S-060S	B.2.12 * B.2.14
20567	HOSE ASSEMBLY - 4055-08-080S-080S-W	B.3.52
20597	CARTRIDGE, solenoid - 12V	D.3.4
20598	CARTRIDGE, relief	D.3.4
20599	KIT, seal repair - solenoid cartridge	D.3.4
20600	KIT, seal repair - relief cartridge	D.3.4
20601	BRACKET, mono-block mounting	B.1.6
20604	CLAMP, hose - coated strap - 1-3/16"	J.1.22
20605	SUPPORT, wire harness support	J.1.22
20609	LENS, indicator light - yellow	J.3.6
20617	HOSE ASSEMBLY - 2240-06-060S-060S	J.5.10 * J.5.12
20622	SCREW, machine - #10-24 x 2"	J.3.10
20623	BOLT - 16mm-2.0P x 90mm	F.4.2 * J.1.16
20624	SPACER, rear engine mount	F.4.2 * J.1.16
20629	FITTING, 45 grease - 1/8" pipe thread	J.2.6
20630	SWITCH, foot pedal - 12V	J.2.6
20631	HOUSING, lower	J.2.6
20632	SPACER, bolt	J.2.6
20633	BOLT, allen head - 6mm x 70mm	J.2.6
20638	BUTTON, push	J.2.4
20639	SPRING, push button switch	J.2.4
20640	NUT, nylock - 4mm	J.2.4
20641	POTENTIOMETER - 5 ohm	J.2.4

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20642	SPRING, disc	J.2.4
20643	SCREW, machine - 4mm x 45mm	J.2.4
20644	PLATE, contact - LH	J.2.4
20645	PLATE, contact - RH	J.2.4
20646	KIT, repair - handle mounting plate	J.2.4
20647	NUT, jam - 10mm	J.2.4
20648	SCREW, self-tapping	J.2.4
20649	KIT, repair - handle mounting stem	J.2.4
20650	BOOT	J.2.4
20651	WASHER, stem	J.2.4
20652	RING, boot mounting	J.2.4
20653	WIRE ASSEMBLY	J.2.4
20655	WIRE ASSEMBLY - electrical box ground	J.3.12
20656	HARNESS, wire - electronic foot pedal "A"	J.2.8
20657	HARNESS, wire - electronic foot pedal "B"	J.2.8
20662	BOLT - 1/2" x 2-1/4" NF	K.1.8 * K.1.10
20667	U-JOINT, driveshaft	K.1.8
20669	SEAL, rotary manifold	D.2.2
20670	O-RING, electrical section	D.2.2
20671	RING, insulator	D.2.2
20672	RING, insulator	D.2.2
20673	RING, contact	D.2.2
20674	BRUSH, contact	D.2.2
20675	O-RING, cover	D.2.2
20677	U-JOINT, driveshaft	K.1.8 * K.1.10
20678	ELBOW, 45 swivel - FF2133T-0808S	B.2.30 * B.2.38
20679	CONNECTOR, straight - 6403-NWO-6	B.2.12 * B.2.14
20681	SWITCH, foot pedal - 24V	J.2.6
20685	RING, snap	C.3.12
20686	SHIM, shaft seal	C.3.12
20687	SEAL, shaft	C.3.12
20688	SCREW, adjusting	C.3.12
20689	NUT, seal	C.3.12
20690	STROKING PISTON COVER ASSEMBLY	C.3.12

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20691	PLUG	C.3.12
20693	PLUG - 14mm-1.5P	C.3.12 * C.3.14
20713	O-RING	C.3.12
20714	SHIM	C.3.12
20715	SPRING	C.3.12
20716	POPPET	C.3.12
20717	ORIFICE, flushing - 1.2mm	C.3.12
20718	RING, snap	C.3.12
20719	PLUG	C.3.12
20720	O-RING	C.3.12
20721	SPRING	C.3.12
20722	RETAINER, spring	C.3.12
20723	BOLT, allen head	C.3.12
20724	O-RING	C.3.12
20725	KIT, seal repair - complete AA6VM160 motor	C.3.12 * C.3.14
20726	STROKING PISTON CONTROL ASSEMBLY	C.3.14
20727	SPRING	C.3.14
20728	BUSHING, spring	C.3.14
20729	SPRING	C.3.14
20730	RETAINER, spring	C.3.14
20731	RING, snap	C.3.14
20732	BUSHING, control spool	C.3.14
20733	SPOOL, control	C.3.14
20734	E-CLIP, control spool	C.3.14
20735	O-RING	C.3.14
20736	BOLT, allen head	C.3.14
20737	NUT, seal	C.3.14
20738	SCREW, adjusting	C.3.14
20739	PIN, stroke adjustment	C.3.14
20740	SHIM, hydraulic tank support	E.1.6
20741	SHIM, hydraulic tank support	E.1.6
20742	SHIM, hydraulic tank support	E.1.6
20745	BOOT	D.3.2
20746	PISTON	D.3.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20747	RETAINER, spring	D.3.2
20748	SPRING, piston	D.3.2
20749	SEAL, piston	D.3.2
20751	RING, snap	D.3.2
20752	SPRING, control	D.3.2
20753	PLUG	D.3.2
20754	FAN, engine - sucker - 28" high pitch	F.3.6
20755	FAN, engine - blower - 28"	F.3.6
20758	SPACER	H.7.4
20759	GROMMET	C.2.4
20781	RING, snap	C.2.4
20782	WASHER, bevel	C.2.4
20783	PISTON, brake	C.2.4
20784	SHIM KIT, brake disc	C.2.4
20785	O-RING, brake housing	C.2.4
20786	SHAFT, brake	C.2.4
20787	BOLT, allen head	C.2.4
20788	KIT, repair - brake disc	C.2.4
20793	HOSE ASSEMBLY - 4108-08-08OMS08OMS	H.3.2
20794	HOSE ASSEMBLY - 4155-12-120MS120MS	H.2.2
20795	HOSE ASSEMBLY - 4207-08-080MS-080MS	H.2.2
20813	SPACER, engine fan	F.4.6
20819	HOSE ASSEMBLY - 4085-12-120S-120S	B.4.4 * B.4.6
20820	HOSE ASSEMBLY - 2078-16-160S-1609	B.2.18
20827	LENS, indicator light - red	J.3.4
20828	LENS, indicator light -red	J.3.4
20829	LENS, indicator light - green	J.3.6
20830	LENS, indicator light - green	J.3.6
20831	BLANK, indicator light	J.3.4 * J.3.6
20832	LENS, indicator light - blue	J.3.8
20833	LENS, indicator light - blue	J.3.8
20834	SWITCH, rocker - A/C mode select	J.3.8
20835	SWITCH, rocker - 3-way fan speed	J.3.8
20836	COVER, dash wiring	J.3.10

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20840	DECAL, Cat intake pre-heat	H.1.28
20843	PROTECTOR, spiral hose wrap - 3/4"	B.3.28 * B.3.30 * B.3.38 * B.3.40 * B.3.48 * B.3.50
20857	ALTERNATOR - 12V / 160 AMP	F.3.8
20858	WELDMENT, stick boom heel	H.3.12
20859	WELDMENT, log bunk - 33"	H.6.4
20860	STICK BOOM CYLINDER ASSEMBLY	E.2.4
20862	HOSE ASSEMBLY - 2098.5-04-040S-040S-W	B.3.26
20863	HOSE ASSEMBLY - 2031.5-04-040S-0409	B.3.38
20864	BARREL ASSEMBLY	E.2.4
20865	AIR CONDITIONER / HEATER UNIT	G.4.2
20866	RESISTOR	G.4.2
20867	MOTOR, A/C blower	G.4.2
20868	CORE, heater	G.4.2
20869	CORE, evaporator	G.4.2
20870	FILTER, air intake	G.4.2
20871	VALVE, expansion	G.4.2
20872	THERMOSTAT	G.4.2
20873	DRIER, A/C	G.4.4
20874	CONDENSER, air conditioner	G.4.10
20875	PANEL, A/C fan mounting	G.4.10
20876	MOTOR / FAN ASSEMBLY	G.4.10
20877	VENT, adjustable air	G.4.6
20878	VENT, adjustable air	G.4.8
20879	ELBOW, 22 ABS	G.4.6
20880	ELBOW, 45 ABS	G.4.6
20881	ELBOW, 45 street ABS	G.4.6
20882	ELBOW, 90 ABS	G.4.6
20883	PIPE, ABS - 3"	G.4.6
20884	HOSE, flexible - 3-1/2"	G.4.6 * G.4.8
20885	COVER, access - A/C unit - LH	G.4.4
20886	COVER, access - A/C unit - RH	G.4.4
20887	HARNESS, A/C w/ bracket	G.4.4
20888	BASE, A/C relay mounting	G.4.4
20889	RELAY, A/C - 40/30A	G.4.4

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20891	CONNECTOR, straight bulkhead - #6	G.4.12
20892	CONNECTOR, straight bulkhead - #10	G.4.12
20893	HOSE, air conditioner - #6 x 14-1/2"	G.4.14
20894	HOSE, air conditioner - #6 x 21-3/4"	G.4.12
20895	HOSE, air conditioner - 6# x 39"	G.4.12
20896	HOSE, air conditioner - #8 x 127"	G.4.14
20897	HOSE, air conditioner - #10 x 51-1/2"	G.4.12
20898	HOSE, air conditioner - #10 x 122"	G.4.14
20900	GAUGE, sight - water valve	G.4.14
20901	SWITCH, A/C thermal control	J.3.2
20902	KNOB	J.3.2
20903	ELBOW, 90 brass	G.4.16 * G.4.18
20904	BASE, A/C 2-temp control	G.4.4
20905	BOLT - 3/4" x 12"	H.6.4
20906	BOLT - 3/4" x 16"	H.6.4
20912	SWITCH, rocker - ON/OFF	J.3.4
20913	STRIP, terminal - 20 terminal	J.3.2
20914	MANIFOLD, valve/clam pressure	B.2.8
20915-L	WHEEL ASSEMBLY, 28L-26 - LH	K.1.12
20915-R	WHEEL ASSEMBLY, 28L-26 - RH	K.1.12
20916-L	WHEEL ASSEMBLY, 18.4-26 -LH	K.1.16
20916-R	WHEEL ASSEMBLY, 18.4-26 - RH	K.1.16
20927	GASKET, auxiliary pad drive	F.3.8
20929	HOSE ASSEMBLY - 4050-12-120S-120S-W	B.2.42
20935	HOSE ASSEMBLY - 2035-04-040S-0409	B.3.28
20936	HOSE ASSEMBLY - 4043.5-08-080S-0804-W	B.3.4
20947	DECAL, preventative maintenance	H.1.26
20956	SOLENOID, fuel shut-off	F.3.12
20966	DRIVE SHAFT ASSEMBLY - COMPLETE	K.1.8
20966-2	DRIVE SHAFT	K.1.8
20967	O-RING	B.3.10
20968	BOLT, flat head socket - 3/4" x 1-1/4"	K.1.6
20969	BOLT, allen head - 3/4" x 2-3/4"	B.3.10
20973	BOLT, allen head - 3/8" x 2-1/2"	B.2.8

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20981	HOSE ASSEMBLY - 2032-14-040S-0409	B.3.44
21000	HOSE ASSEMBLY - 2068-04-040D-0409-W	B.3.44
21004	MANIFOLD, rotary - 1-1/4" ORB porting	D.2.2
21013	TUBE, log stake	H.6.4
21020	HYDRAULIC OIL FILL PUMP ASSEMBLY	E.1.18
21021	BELT, A/C compressor drive	F.3.6
21022	FAN, engine - sucker - 28" high pitch	F.4.6
21036	HOSE ASSEMBLY - 4115-04-040S-040S-W	B.3.24
21037	HOSE, suction - 1039-16	B.3.6
21113	HOSE ASSEMBLY - 6044-20-200S-2009-W	B.3.14
21114	HOSE ASSEMBLY - 6045-20-200S-2009-W	B.3.14
21123	MOUNT, engine - LH front	F.3.2
21124	MOUNT, engine - RH front	F.3.2
21145	VALVE, check - 150 psi	B.2.18
21147	ELBOW, 90 - 1/4" NPT	G.5.10
21163	ELEMENT, return filter	E.1.4
21174	HOSE ASSEMBLY - 6031-20-200S-200S-W	B.3.16
21175	HOSE ASSEMBLY - 6013-20-200S-2009-W	B.3.12
21176	HOSE ASSEMBLY - 2053-12-10S-1204-W	B.3.20
21177	HOSE ASSEMBLY - 2022.5-12-120S-1204-W	B.3.18
21178	HOSE ASSEMBLY - 2062-12-120S-1209-W	B.3.22
21199	FAN SHROUD KIT	F.2.6 * F.2.8
21200	SHROUD, radiator - LH upper	F.2.6 * F.2.8
21201	SHROUD, radiator - RH upper	F.2.6 * F.2.8
21202	SHROUD, radiator - LH lower	F.2.6 * F.2.8
21203	SHROUD, radiator - RH lower	F.2.6 * F.2.8
21214	GUARD, fan - lower	F.2.8
21220	MOUNT, engine - RH rear	F.4.2
21221	MOUNT, engine - LH front	F.4.2
21228	HOSE ASSEMBLY - 6058-20-200S-2009-W	B.3.12
21229	HOSE ASSEMBLY - 6037-20-200S-2004-W	B.3.12
21233	GASKET	G.5.2
21234	RING, quad	G.5.2
21235	FILL CAP ASSEMBLY	G.5.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
21236	ADAPTER	G.5.2
21237	BURSTING DISC UNION	G.5.2
21238	ADAPTER	G.5.2
21239	DISC, bursting	G.5.2
21240	RING, union tail piece	G.5.2
21241	DRY CHEMICAL TANK BRACKET	G.5.2
21242	CLAMP, band	G.5.2
21243	PAD, band clamp	G.5.2
21244	PAD, clamp arm	G.5.2
21245	Pad, bumper	G.5.2
21246	PAD, base	G.5.2
21248	PNEUMATIC ACTUATOR ASSEMBLY	G.5.4
21249	BODY, actuator - upper	G.5.4
21250	O-RING, slave piston	G.5.4
21251	PISTON, pneumatic slave	G.5.4
21252	PIN, puncture	G.5.4
21253	SPRING	G.5.4
21254	O-RING, actuator body	G.5.4
21255	BODY, actuator - lower	G.5.4
21256	WASHER	G.5.4
21257	RING, retaining	G.5.4
21258	GASKET	G.5.4 * G.5.6 * G.5.8
21259	CARTRIDGE, manual actuator	G.5.6
21260	BRACKET ASSEMBLY, nitrogen tank	G.5.4
21261	ARM, clamp	G.5.4
21262	PAD, clamp arm	G.5.4
21263	BOLT, carriage - 3/8" x 1"	G.5.4
21264	MANUAL ACTUATOR ASSEMBLY	G.5.6
21265	KNOB	G.5.6 * G.5.8
21266	BOOT	G.5.6
21267	NUT, jam	G.5.6
21268	BRACKET, manual actuator	G.5.6
21269	BODY, actuator	G.5.6
21270	O-RING, puncture pin	G.5.6

<u>Part #</u>	<u>Description</u>	<u>Location</u>
21271	PIN, puncture	G.5.6
21272	PIN, safety ring	G.5.6 * G.5.8
21273	CHAIN	G.5.6 * G.5.8
21274	SCREW, drive	G.5.6 * G.5.8
21275	WIRE, lead seal	G.5.6 * G.5.8
21276	CARTRIDGE, nitrogen	G.5.4
21277	BOOT	G.5.8
21278	ADAPTER, boot	G.5.8
21279	O-RING, stem	G.5.8 * G.5.8
21281	STEM	G.5.8
21282	O-RING, puncture pin	G.5.8
21283	PIN, puncture	G.5.8
21284	SPRING	G.5.8
21285	BODY, adapter	G.5.8
21286	NUT, jam	G.5.8
21287	BRACKET, manual actuator	G.5.8
21288	CARTRIDGE, manual actuator	G.5.8
21289	CONTROL BOX ASSEMBLY	G.5.8
21290	PLATE, name	G.5.8
21291	BULB - 12V	G.5.8
21292	BULB - 24V	G.5.8
21293	LENS, indicator	G.5.8
21294	MANUAL ACTUATOR ASSEMBLY	G.5.8
21295	MANUAL ACTUATOR / CONTROL BOX ASSEMBLY	G.5.8
21296	WIRE, power - 10"	G.5.8
21297	HARNESS, battery	G.5.8
21298	FUSE - 5 AMP	G.5.8
21299	VALVE, safety relief	G.5.10
21311	TEE, branch - 20-S5OLO-S	B.3.14
21313	CONNECTOR, straight - 20HLO-S	B.3.12
21314	ADAPTER, 90 flange - 20 LOEQ2-S	B.3.12
21346	WELDMENT, stretched short-top cab	G.1.2
21544	TEE, ABS - 3"	G.4.6
21667	WELDMENT, log bunk - 28"	H.6.4

<u>Part #</u>	<u>Description</u>	<u>Location</u>
21668	TUBE, radiator splice	F.3.26
21679	DECAL, cab operating instructions	H.1.24
21856	TEE - 16 AOG5JG5-S	B.2.10
21961	HOSE ASSEMBLY - 2030-08-08MP-08MP	K.1.18 * K.1.20
21962	HOSE ASSEMBLY - 2063-08-08MP-08MP	K.1.20
21967	TRANSMISSION, single pump drive	F.3.10 * F.4.12
21968	DRIVE PLATE	F.3.10 * F.4.12
21969	HOUSING	F.3.10 * F.4.12
21970	ADAPTER, pump drive - SAE "E"	F.3.10 * F.4.12
22010	SEAL, shaft	F.3.10 * F.4.12
22011	O-RING	B.3.6
22015	ISOLATOR, sandwich mount - A/C condenser	G.4.10
22044	HOSE ASSEMBLY - 2057-12-12PS-12PS	G.5.14
22051	CARRIAGE, control	G.3.6
22052	KIT, shock absorber	G.3.6
22053	CHASSIS, severe duty	G.3.6
22054	TETHER	G.3.6
22055	KIT, track set - 6"	G.3.6
22056	LEVER, height adjustment	G.3.6
22057	KNOB, ride adjustment	G.3.6
22058	COVER, seat back	G.3.8
22059	KIT, arm pad set	G.3.8
22060	PAD, arm rest - LH	G.3.8
22061	PAD, arm rest - RH	G.3.8
22062	KNOB, front arm adjustment	G.3.8
22063	KNOB, recliner	G.3.8
22064	CUSHION, seat	G.3.8
22065	SKIRT, seat	G.3.8
22066	KNOB, control carriage lock	G.3.8
22067	SPRING, gas	G.3.8
22068	SCREW, MACHINE - 1/4" - 5/8"	G.3.8
22069	NUT, speed - 1/4"	G.3.8
22070	KNOB, lumbar support adjustment	G.3.8
22071	SKIRT, joystick mount - LH	G.3.8

<u>Part #</u>	<u>Description</u>	<u>Location</u>
22072	SKIRT, joystick mount - RH	G.3.8
22073	CONNECTOR, straight	F.4.10
22074	O-RING	F.4.10
22075	TUBE ASSEMBLY	F.4.10
22076	O-RING	F.4.10
22077	ELBOW, 90	F.4.10
22078	O-RING	F.4.10
22079	GEAR, auxiliary drive	F.4.10
22080	BOLT - 12mm x 100mm	F.4.10
22081	COUPLING, auxiliary drive	F.4.10
22082	WASHER, hardened - 8mm	F.4.10
22083	BOLT - 8mm x 20mm	F.4.10
22084	GASKET	F.4.10
22085	BEARING	F.4.10
22086	O-RING, bearing	F.4.10
22087	ADAPTER	F.4.10
22088	STUD, taperlock - 3/8"	F.4.10
22099	FRAME, door window	G.2.2
22100	FRAME, left side window	G.2.8
22101	FRAME, front window	G.2.6
22102	FRAME, skylight window	G.2.6
22103	FRAME, front window angle - RH	G.2.6
22104	FRAME, front window angle - LH	G.2.6
22105	COVER, floor access	G.1.2
22106	HATCH, front window escape	G.2.6
22107	LEXAN, front window/skylight	G.2.6
22154	DRIVE SHAFT ASSEMBLY - COMPLETE	K.1.8 * K.1.10
22154-5	DRIVE SHAFT (Mid-frame to rear axle)	K.1.10
22184	HOSE, heater - 3/4"	F.3.26 * F.4.28
22202	BRACKET, vent mount - rear	K.1.18
22203	BRACKET, vent mount - front	K.1.20
22205	LEXAN, door window	G.2.2
22206	LEXAN, left side window	G.2.8
22230	DECAL, emergency escape check	H.1.24

<u>Part #</u>	<u>Description</u>	<u>Location</u>
22251	HOUSING, handle	J.2.4
22252	GASKET, air cleaner filter	F.3.18
22258	COVER, access - A/C unit tray	G.4.4
22269	HOSE ASSEMBLY - 2062-04-04PS-04PS	G.5.10
22285	BRACKET, potentiometer mounting	J.2.4
22286	SPACER	J.2.4
22289	CHAIN - 3/8"	H.6.6
22290	BINDER, chain	H.6.6
22291	BAR, stabilizer	H.6.6
22292	DOOR, cab	G.1.2
22302	VALVE, probalyser	B.2.2A
22303	LATCH, toggle - escape hatch	G.2.6
22309	TRIM, panel - headliner roof beam	G.3.4
22310	TRIM, panel - headliner side strip - RH	G.3.4
22311	TRIM, panel - headliner side strip - LH	G.3.4
22312	TRIM, panel - headliner roof	G.3.4
22316	RADIATOR	F.2.4
22317	OIL COOLER	F.2.4
22318	VALVE, relief - thermal bypass	F.2.4
22319	CONNECTOR, straight - thermal bypass	F.2.4 * F.2.4A
22320	HOSE ASSEMBLY - thermal bypass	F.2.4 * F.2.4A
22321	BRACKET, frame - top	F.2.4 * F.2.4A
22322	BRACKET, frame - bottom	F.2.4 * F.2.4A
22323	BRACKET, frame - side	F.2.4 * F.2.4A
22324	EXTENSION, fan box	F.2.4
22325	CONNECTOR, electrical - hirschmann	J.5.8 * J.5.14
22387	DECAL, engine fan rotation	H.1.28
22388	DECAL, fan guard warning	H.1.28
22392	HOSE ASSEMBLY - 2032.5-08-080S-080S	H.1.14
22394	CARTRIDGE, solenoid valve	D.1.6
22395	AM/FM RADIO/CASSETTE PLAYER	J.3.28
22403	RADIATOR / OIL COOLER ASSEMBLY	F.2.4 * F.2.4A
22407	LEXAN, sky scratch	G.2.5
22408	RIM, wheel - 28L-26 (No spacer)	K.1.12

<u>Part #</u>	<u>Description</u>	<u>Location</u>
22409	RIM, wheel - 28L-26 (Spacer)	K.1.12
22438	ELBOW, 90° - 849L-TTO-24x24	B.2.20A * B.2.21A
22441	VALVE, shut-off - 3" butterfly	B.2.2A
22447	CONNECTOR, straight - 848-TTO-24x20	B.2.20A * B.221A
22448	CONNECTOR, straight - 848-TTO-24x24	B.2.20A * B.221A
22460	TUBE, tank suction 90°	B.2.2A
22462	COVER, system pump suction	E.1.2
22463	BOLT - 1/2" x 1-1/4" (3/32" hole in head of bolt)	H.1.2
22484	SWITCH, push button	J.5.2
22485	CAP, push button switch	J.5.2
22489	OIL COOLER	F.2.4A
22490	EXTENSION, fan box	F.2.4A
22491	VALVE, relief - thermal bypass	F.2.4A
22550	INSULATION, soundproof foot pedal access	H.1.12
22544	INSULATION, soundproof gearbox (front)	H.4.4
22545	INSULATION, soundproof gearbox (rear)	H.4.4
22560	BOLT, flange - 1/2" x 2"	B.2.2A
22661	FAN SHROUD KIT (26" [66 cm] diameter engine fan)	F.2.8
22662	SHROUD, radiator - LH lower	F.2.8
22663	SHROUD, radiator - RH lower	F.2.8
22561	BOLT - 16mm x 40mm	B.2.2A
22855	DRIVE SHAFT ASSEMBLY - COMPLETE	K.1.8A
22858	BRACKET, switch housing - RH	J.5.2
22859	BRACKET, switch housing - LH	J.5.2
22860	STRIP, terminal	J.5.2
22861	SWITCH, toggle	J.5.2
22862	SCREW, machine - #10-24 x 1/2"	J.5.2
22863	SCREW, machine - #6-32 x 1/2"	J.5.2
22864	CLAMP, harness	J.5.2
22865	NUT, nylock - #6-32	J.5.2
22866	DIODE, aux pad	J.5.2
22867	TERMINAL, spade	J.5.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
22868	DECAL, temperature setting	J.3.2
22869	SWITCH, temperature control	J.4.4
22871	HARNESS - A/C	J.4.2
22872	HARNESS, wire - air conditioner / heater unit	J.4.6
23070	SEAT ASSEMBLY	G.3.6 * G.3.8
23303	STICK BOOM CYLINDER ASSEMBLY	E.2.4A
23304	ROD ASSEMBLY	E.2.4A
23305	PISTON	E.2.4A
23306	KIT, seal repair - stick boom cylinder	E.2.4A
23442	BARREL ASSEMBLY	E.2.4A
23915	INDICATOR, moisture - A/C	G.4.14
24057	RADIATOR - GTI (1.25" port)	F.2.4A
24307	SEAT BACK ASSEMBLY	G.3.8
80000	BLOCK	H.3.8
80193	WELDMENT, floating bunk	H.6.2
80277	COVER, access - tool box	H.4.4
80300	FRONT FRAME WELDMENT	H.4.2
80316	COVER, access - axle box	H.4.6
80317	COVER, access - frame side	H.4.4
80329	COVER, access - belly pan	H.4.6
80395	BRACKET, gearbox mounting	K.1.6
80398	WELDMENT, log stake pocket	H.6.4
80447	WELDMENT, log rack - lower	H.6.6
80448	WELDMENT, log rack - upper	H.6.6
80454	LOG RACK ASSEMBLY	H.6.6
80468	BRACKET, swivel lock - inner	H.1.2
85000	WELDMENT, main boom	H.2.2 * H.3.2