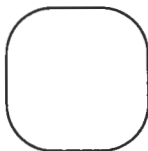


Table Of Contents ...



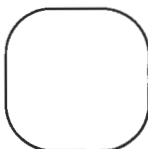
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Main Control Valve To Main Boom Tubelines	B.2.36
Main Boom Tubelines To Stick Boom Tubelines	B.2.38
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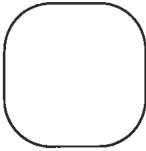
Group B - Hydraulic Circuits (Cont'd)

Section B.2 - Loader Implements (Cont'd)

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Swing Motor Case Drain Line	B.2.50
Swing Motor Brake Release Line	B.2.52
Swing Detent Lines	B.2.54

Section B.3 - Wheel Drive

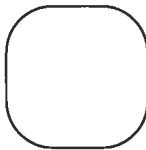
Wheel Drive Charge Pump Suction Line	B.3.2
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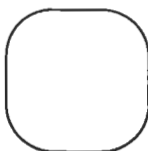
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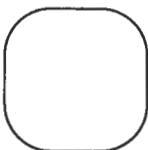
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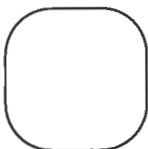
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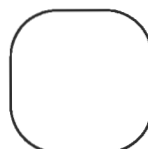
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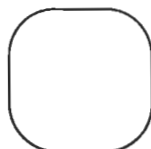
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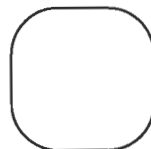
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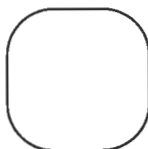
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Group G - Operator's Cab (Cont'd)

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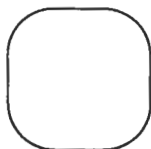
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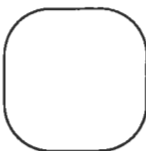
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Section H.5 - Rear Frame

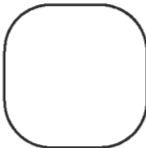
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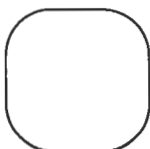
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Group J - Electrical System (Cont'd)

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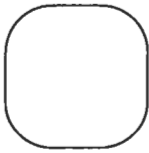
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Danfoss Valve to Terminal Strip inside Pedestal in Clambunk	J.5.14



Group K - Drivetrain Components

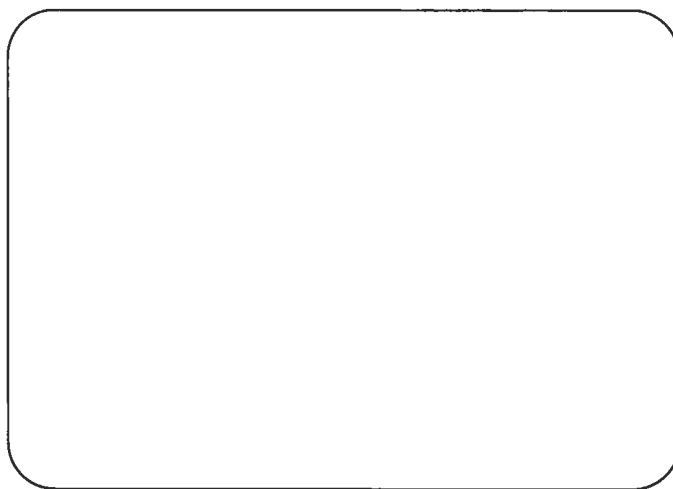
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Drive Shaft Installation:	
Front Frame & Articulation Joint	K.1.8
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Wheel Assemblies:	
Single Configurations - 8 Wheels Total	K.1.12
Dual Configuration - 28L-26 & 23.1-26 - 16 Wheels Total	K.1.14
Dual Configuration - 18.4-26 & 18.4-26 - 16 Wheels Total	K.1.16

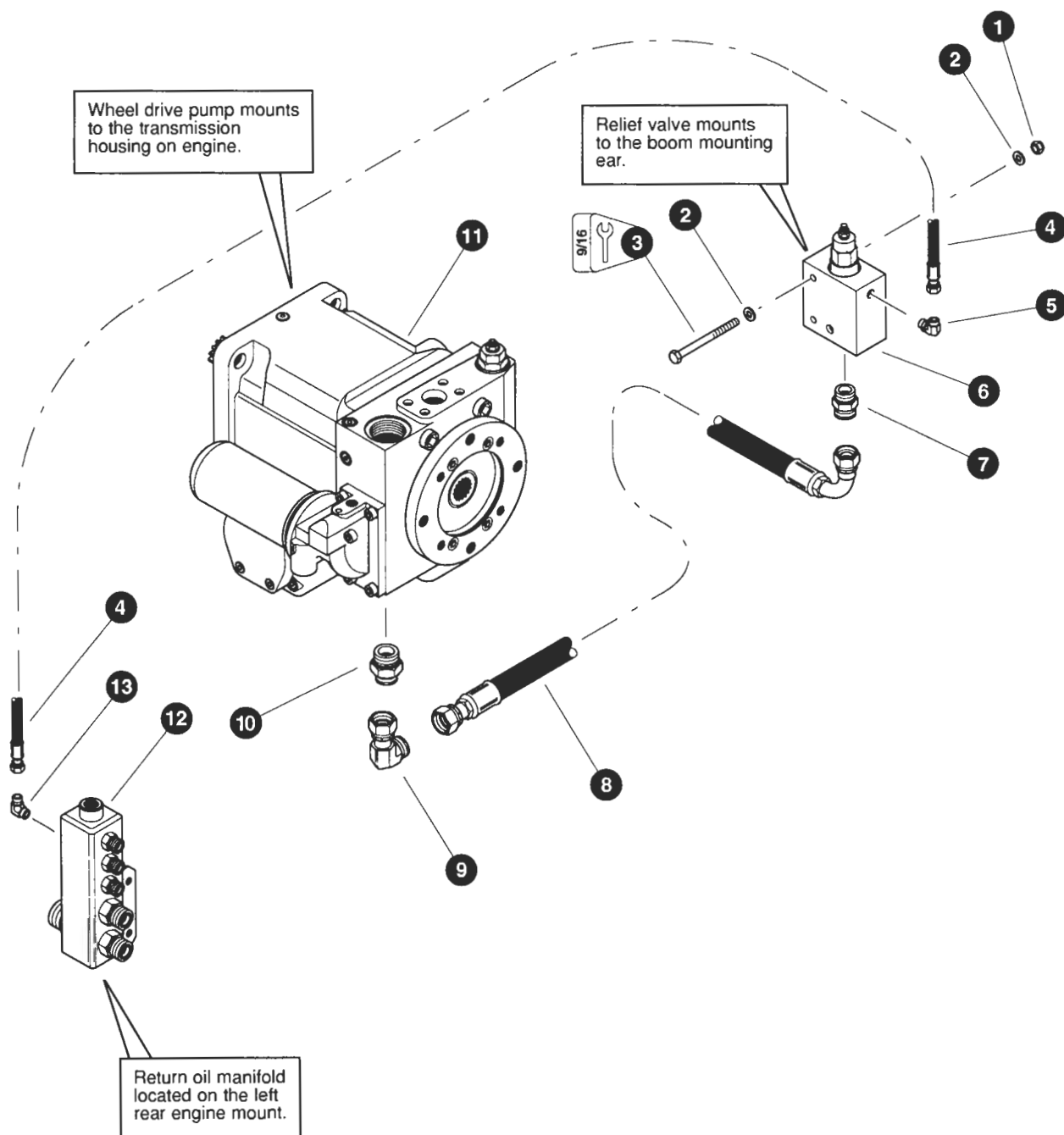
Vendor information (Blue Sheets)

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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Hydraulic Circuits - System Pilot Pressure



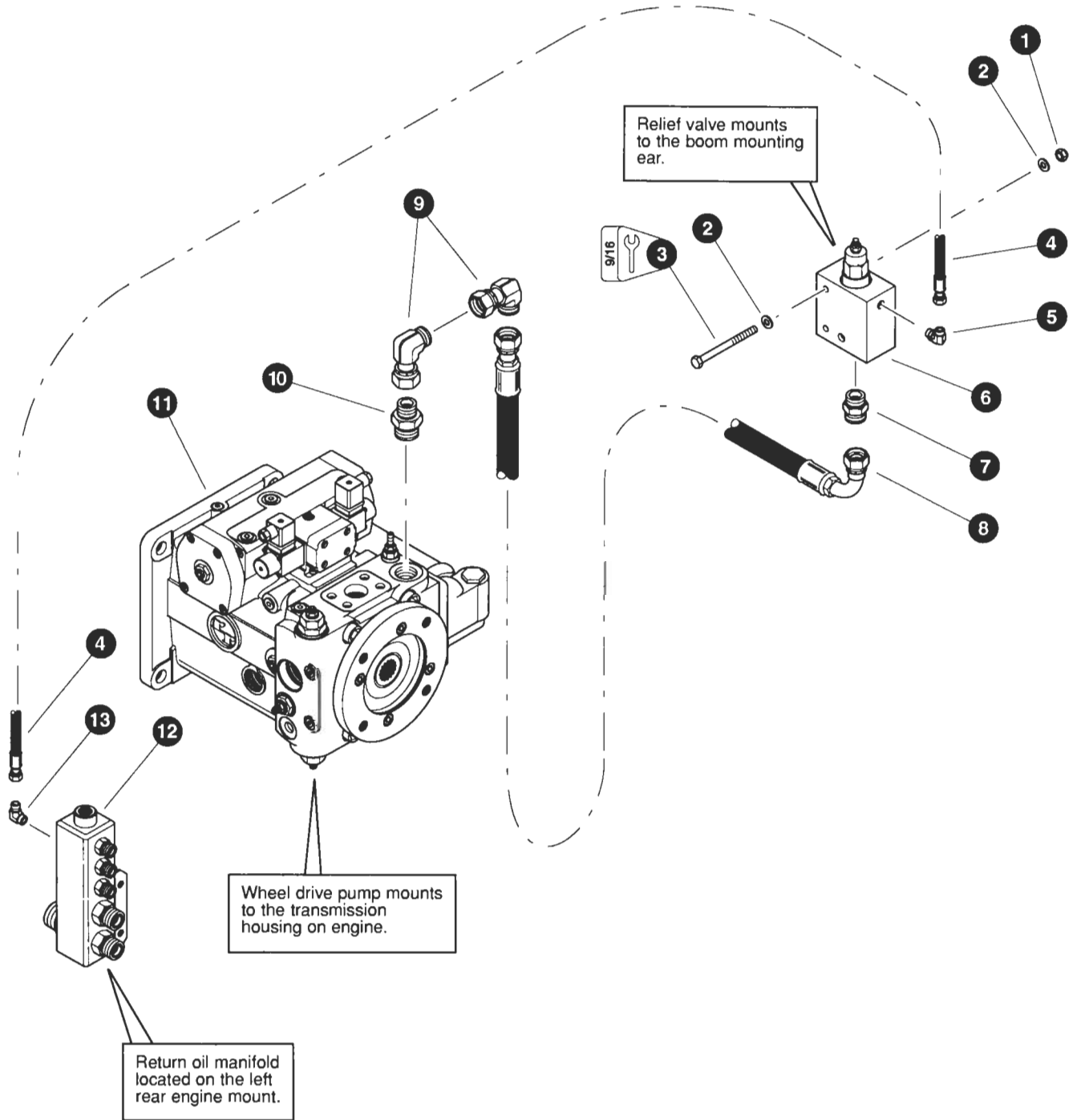
SYSTEM PILOT LINES - PRESSURE

(Wheel Drive Pump To Relief Valve)

(Used on machines PDN# 053FWD and below)

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	20081	1		HOSE ASSEMBLY - 2034.5-12-120S-1209 (Wheel drive pump pressure port to relief valve)	
9	17670	1		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.



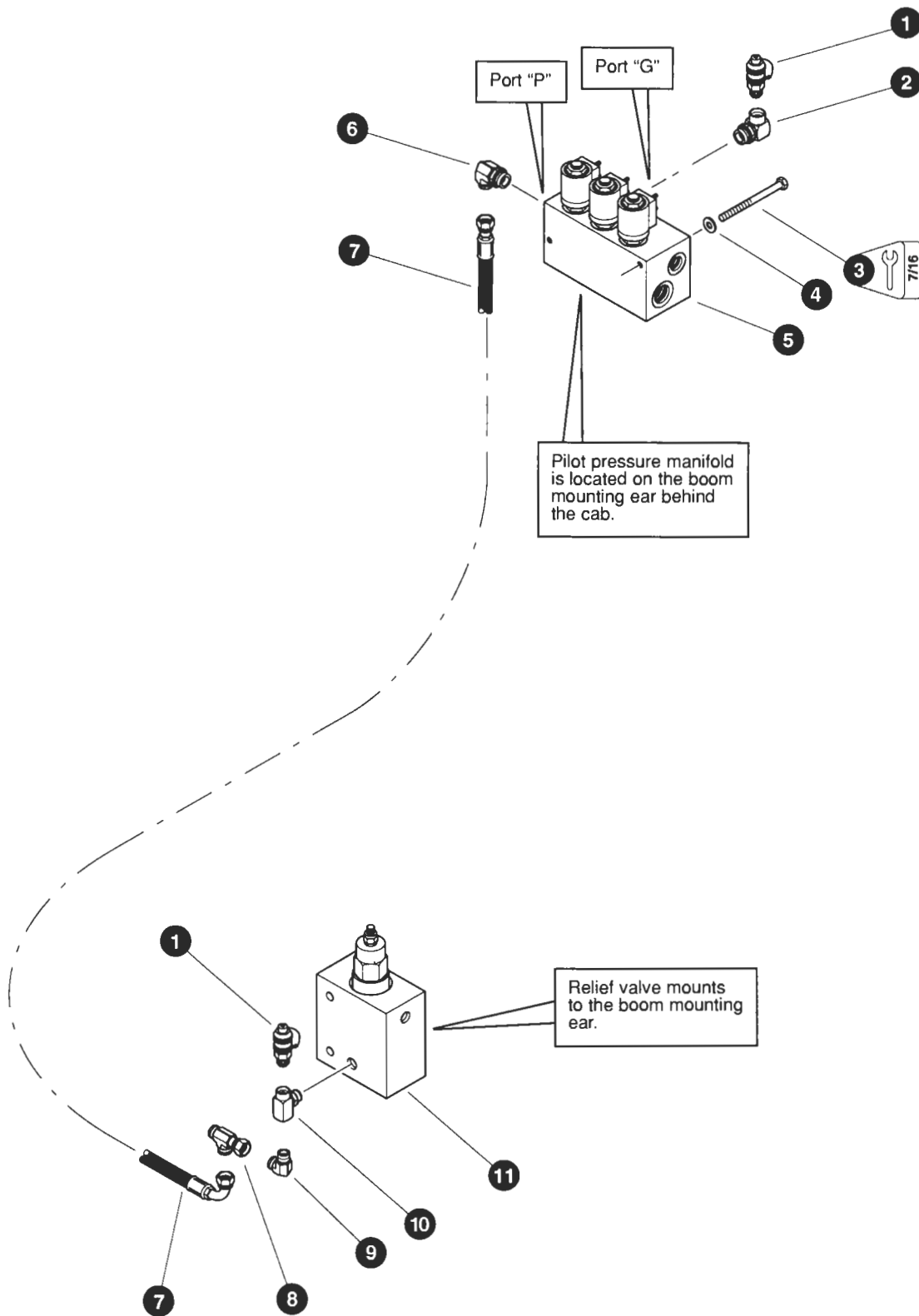
SYSTEM PILOT LINES - PRESSURE

(Wheel Drive Pump To Relief Valve)

(Used on machines PDN# 054FWD and above)

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.

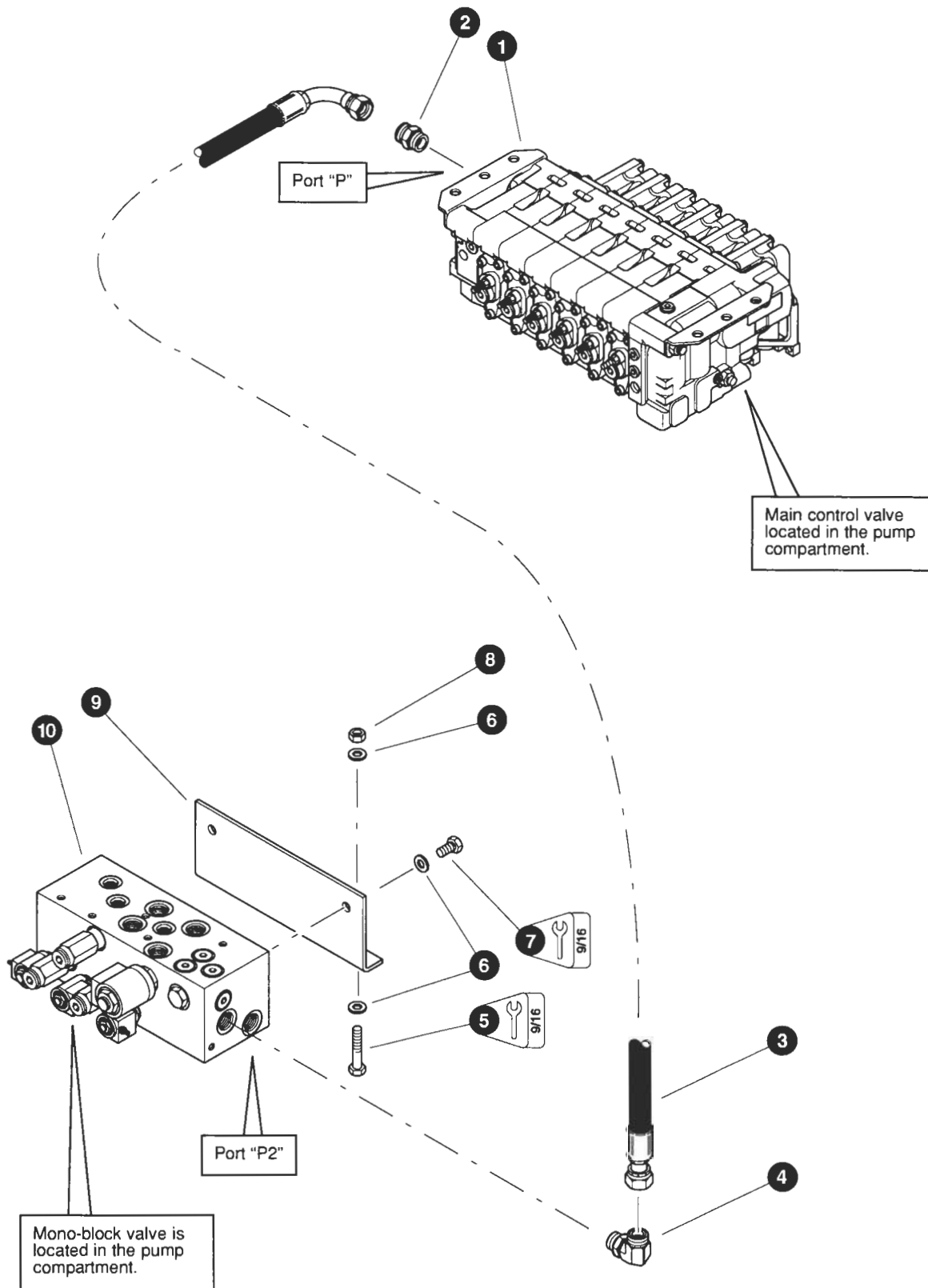


SYSTEM PILOT LINES - PRESSURE

(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.



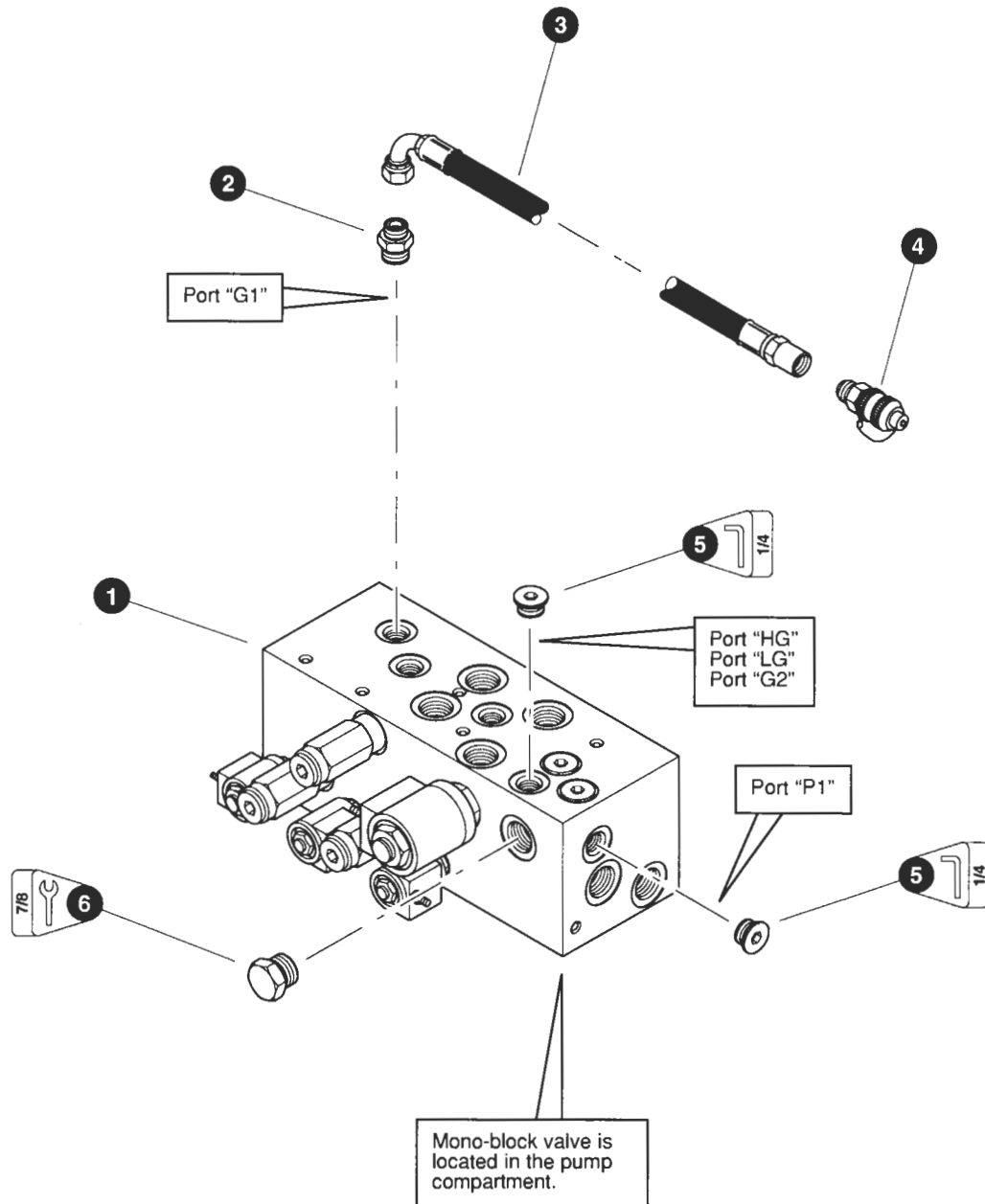
Parts 00489 03/14/98
25.00

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.

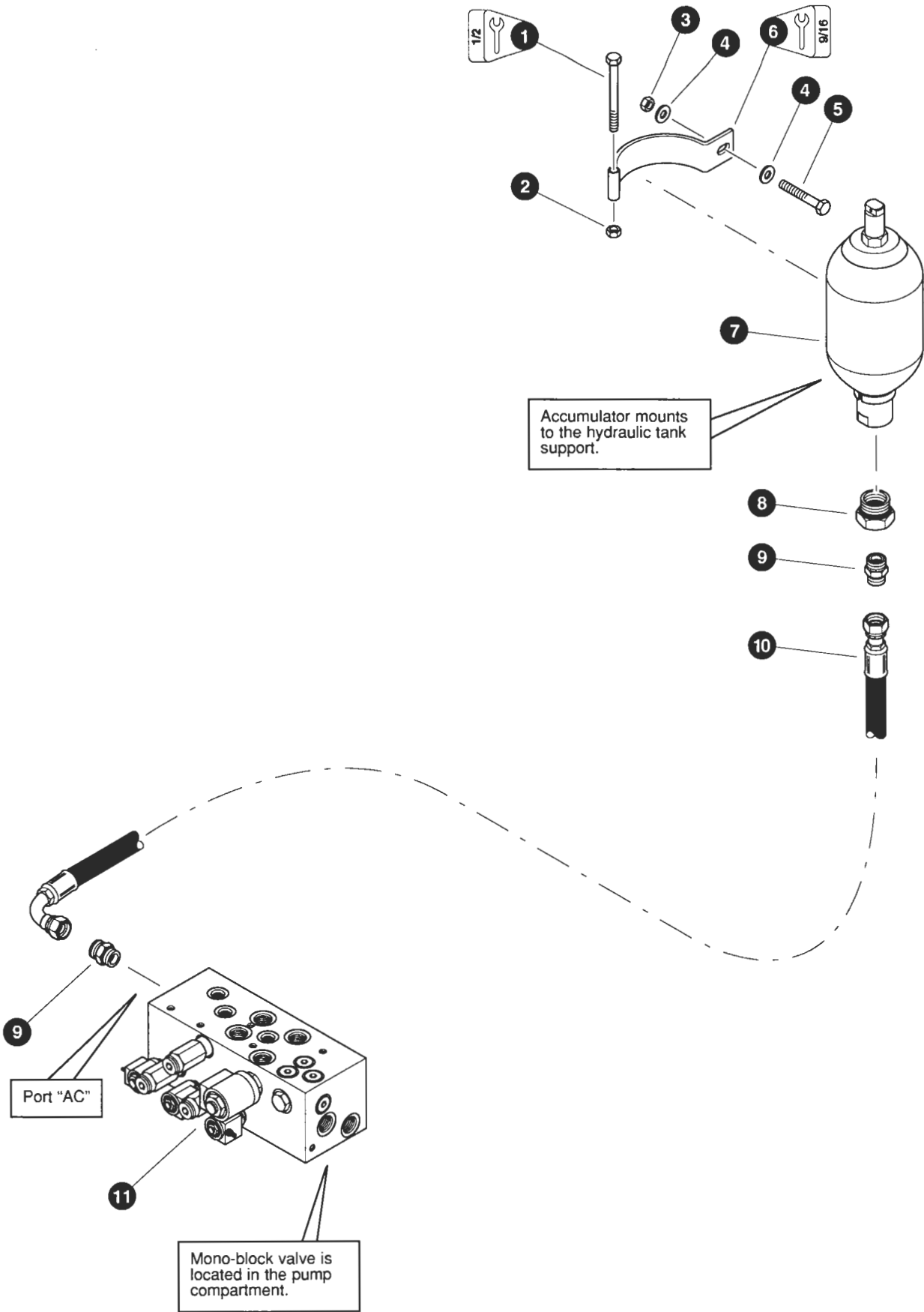


SYSTEM PILOT LINES - PRESSURE

(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.



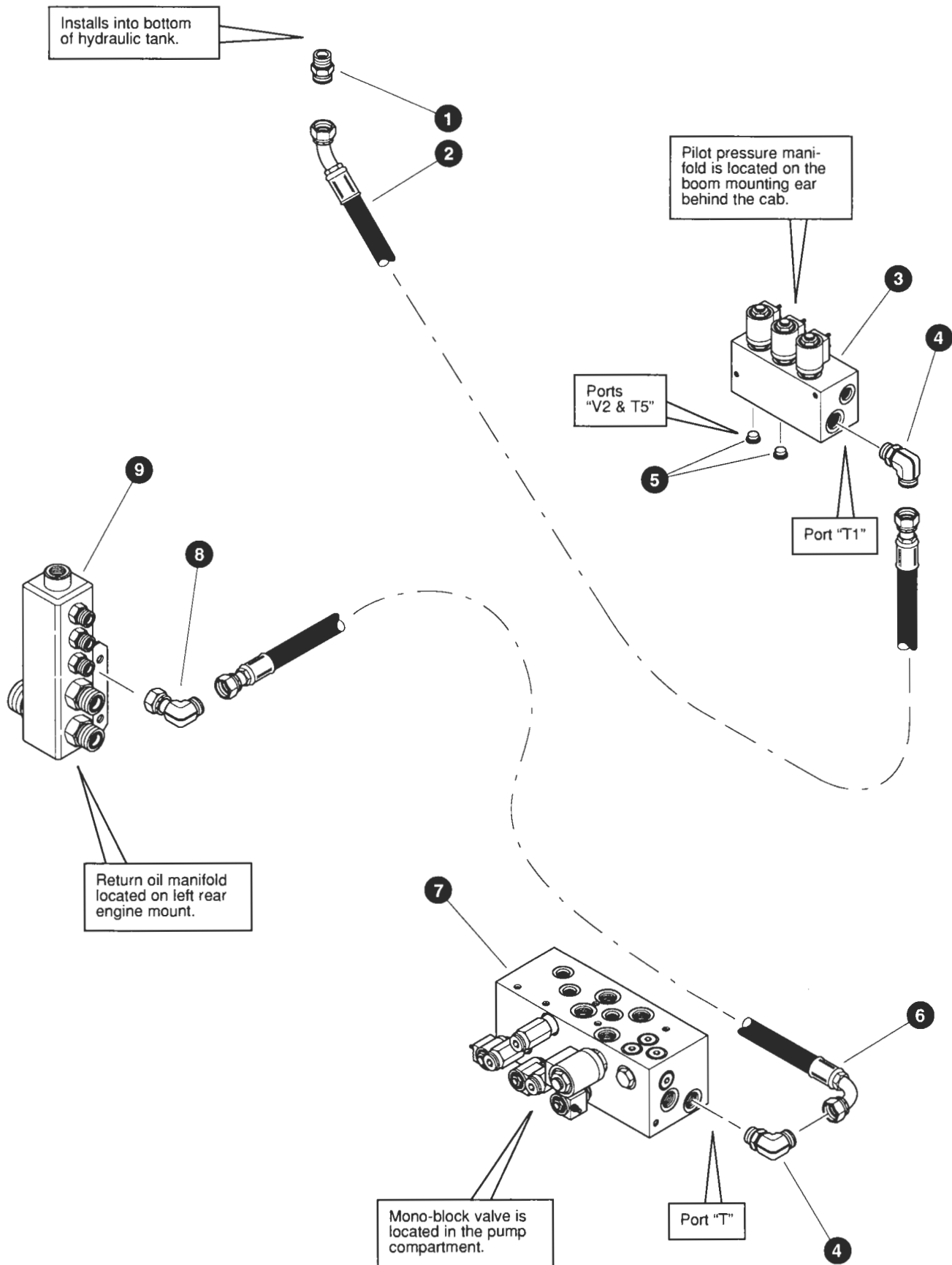
Parts 00491 03/14/98
25.00

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 (2,000 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.



Parts 00492 03/14/98
25.00

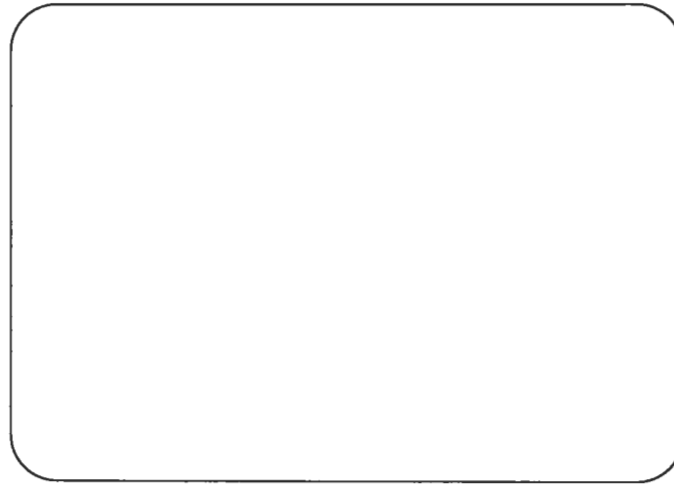
SYSTEM PILOT LINES - RETURN

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

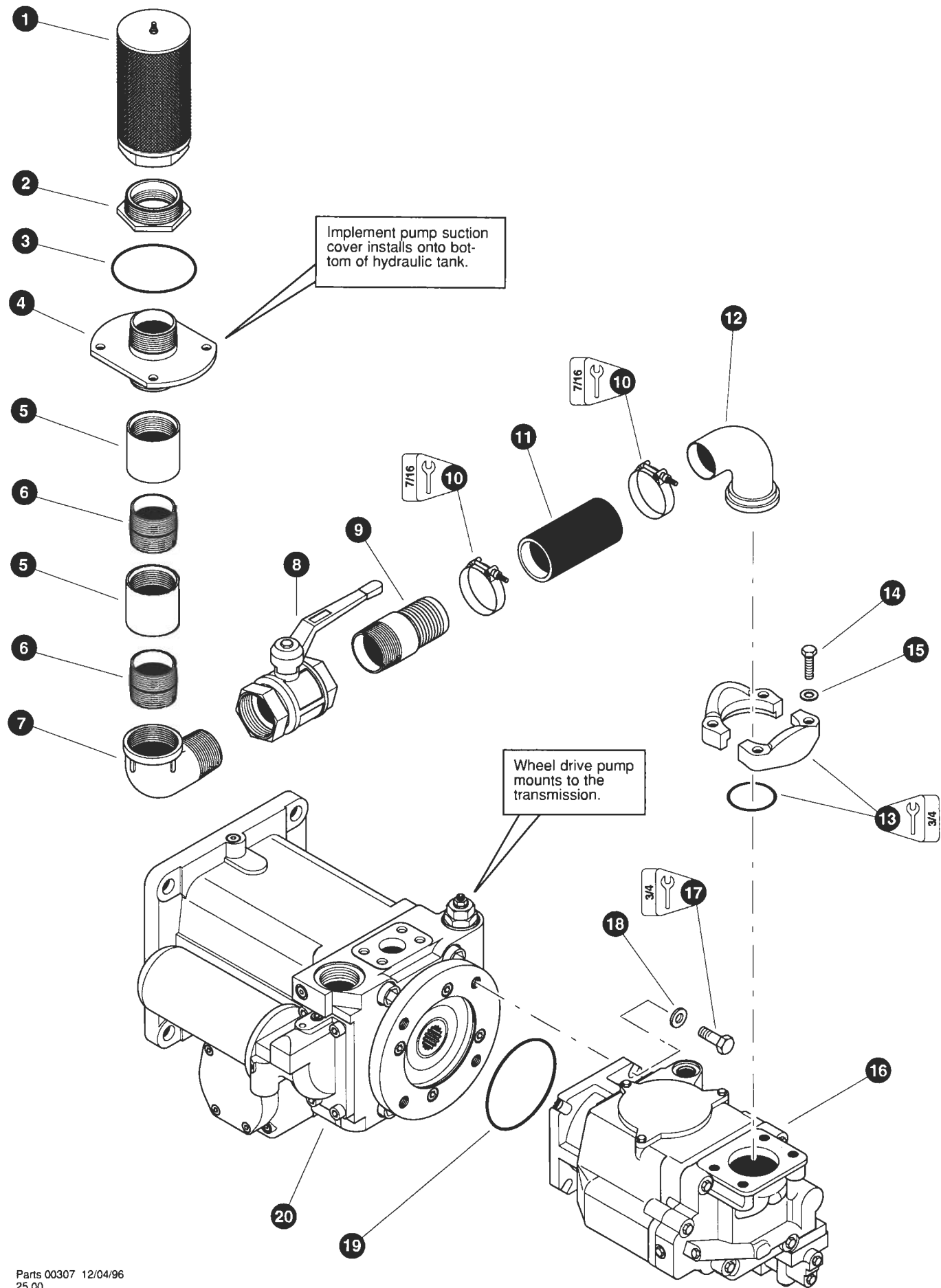
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15258	1		CONNECTOR, straight - FF2031T-0808S	
2	20094	1		HOSE ASSEMBLY - 2064.5-08-080S-080S (Pilot pressure manifold port "T1" to bottom of hydraulic tank)	
3	REF.	1	✓	PILOT PRESSURE MANIFOLD	D.1.4
4	16360	2		ELBOW, 90° - FF1868T-0808S	
5	15412	2		PLUG - 6408-HHP-6	
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.

[illegible]



Hydraulic Circuits - Loader Implements

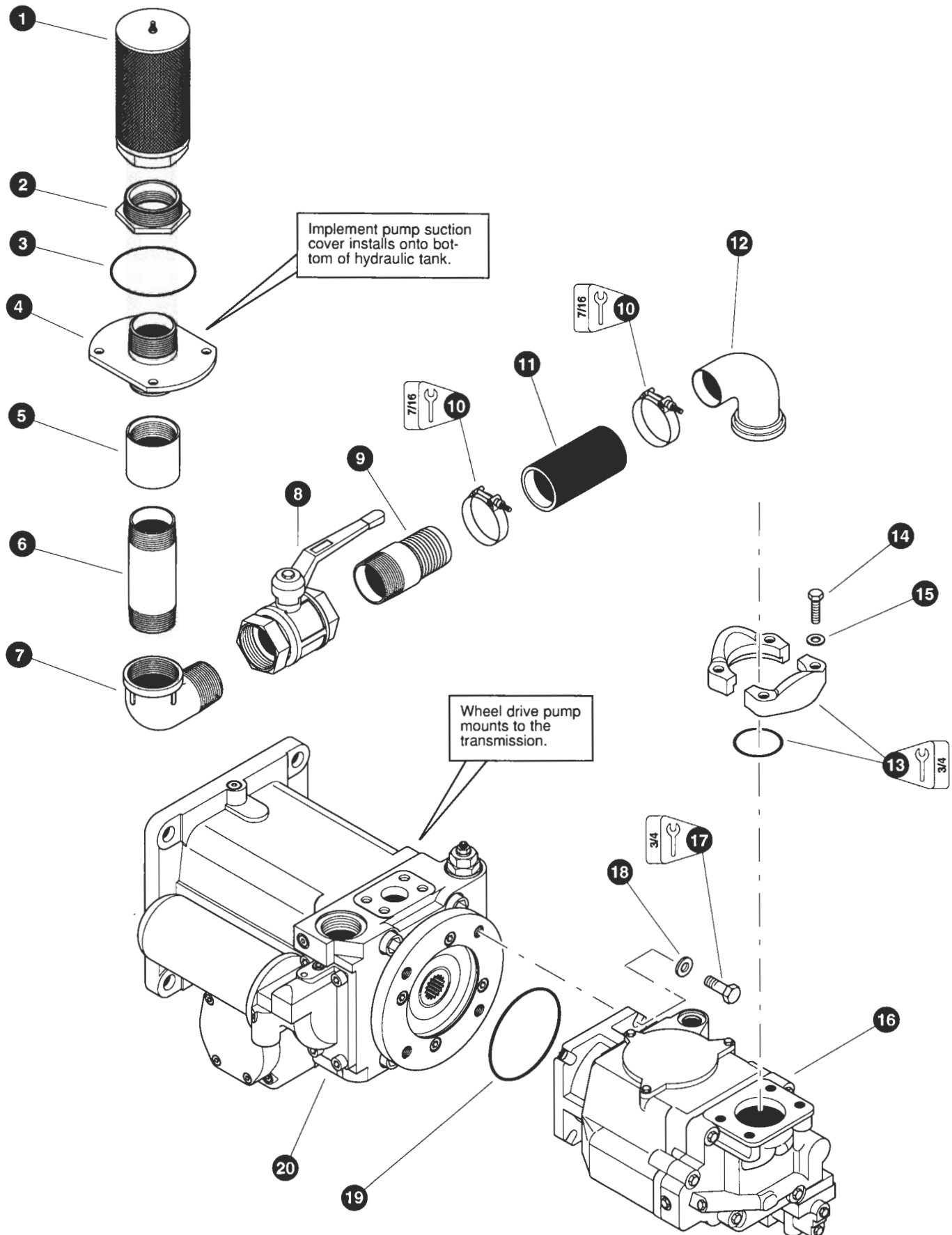


Parts 00307 12/04/96
25.00

IMPLEMENT PUMP SUCTION LINE*(Used on machines PDN# 044FWD 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 (Installed from bottom)	E.1.2
5	18460	2		COUPLING, pipe - 2-1/2"	
6	18461	2		NIPPLE, close - 2-1/2"	
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	17098	1		TUBE, suction	
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	✓	IMPLEMENT 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 meters.
 ☐ Kit or Assembly - includes all items indented underneath.

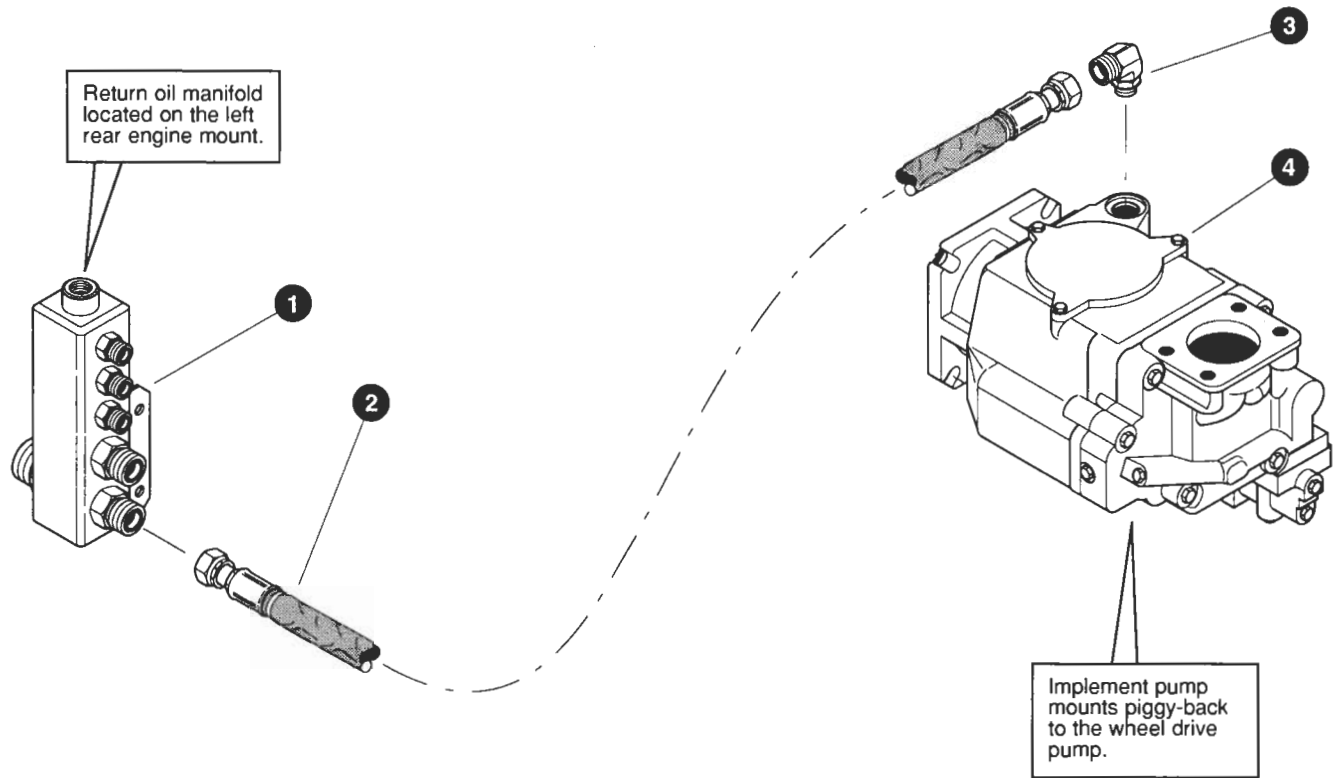


Parts 00431 02/03/98
25.00

IMPLEMENT PUMP SUCTION LINE*(Used on machines PDN# 045FWD 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 (Installed from bottom)	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 (Used on machines PDN# 054FWD and above)	
	17098	1		TUBE, suction (Used on machines PDN# 053FWD and below)	
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	✓	IMPLEMENT 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

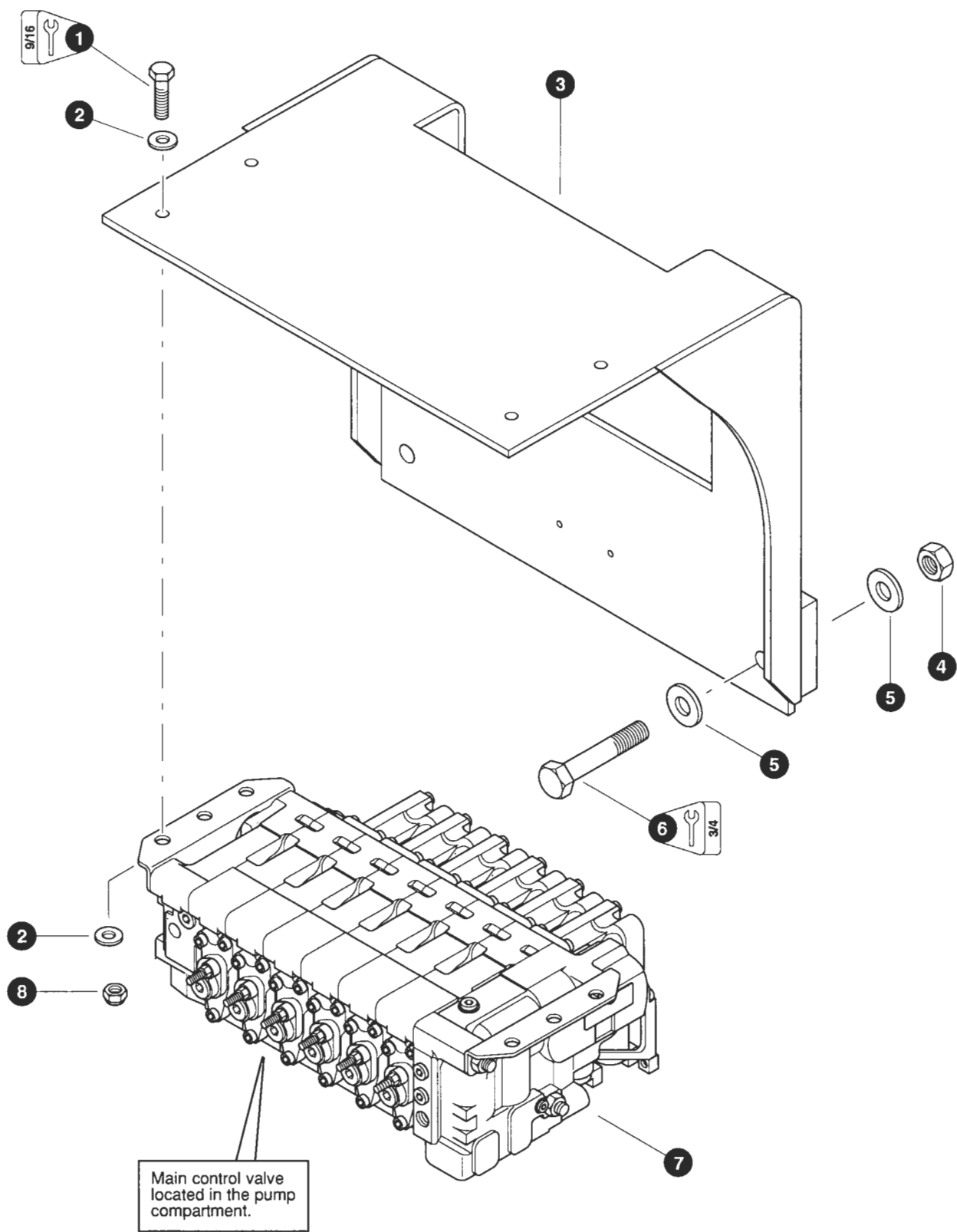
- ✓ See referenced page for component or assembly breakdown.
 ✂ Bulk material - order length required in feet or meters.
 □ Kit or Assembly - includes all items indented underneath.



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 (Implement pump case drain port to return oil manifold)(Used on machines PDN# 054FWD and above)	
	20098	1		HOSE ASSEMBLY - 2037-12-120S-120S (Implement pump case drain port to return oil manifold)(Used on machines PDN# 053FWD and below)	
3	16422	1		ELBOW, 90° - FF1868T-1210S	
4	REF.	1	✓	IMPLEMENT PUMP	C.2.2

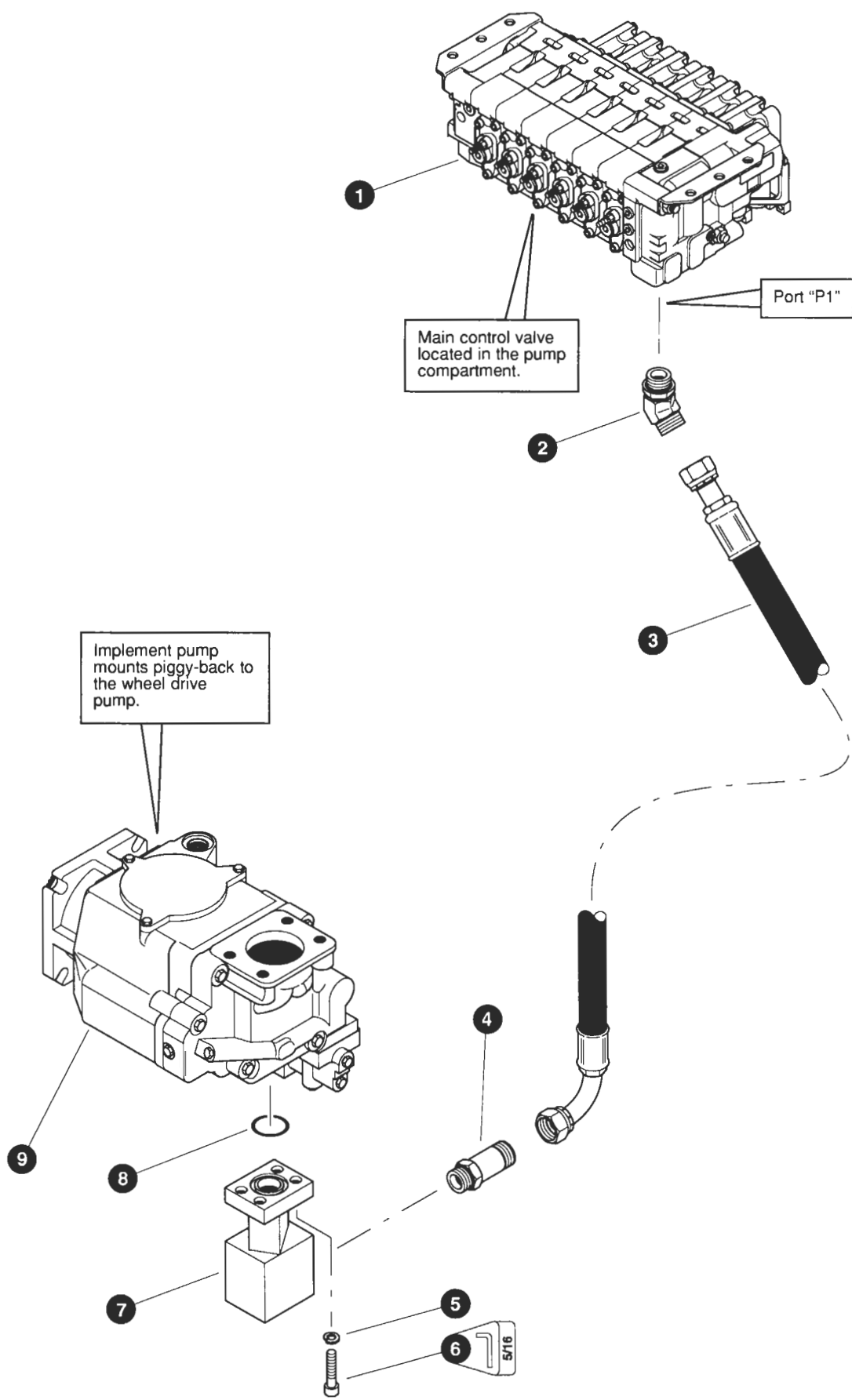
✓ See referenced page for component or assembly breakdown.



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.

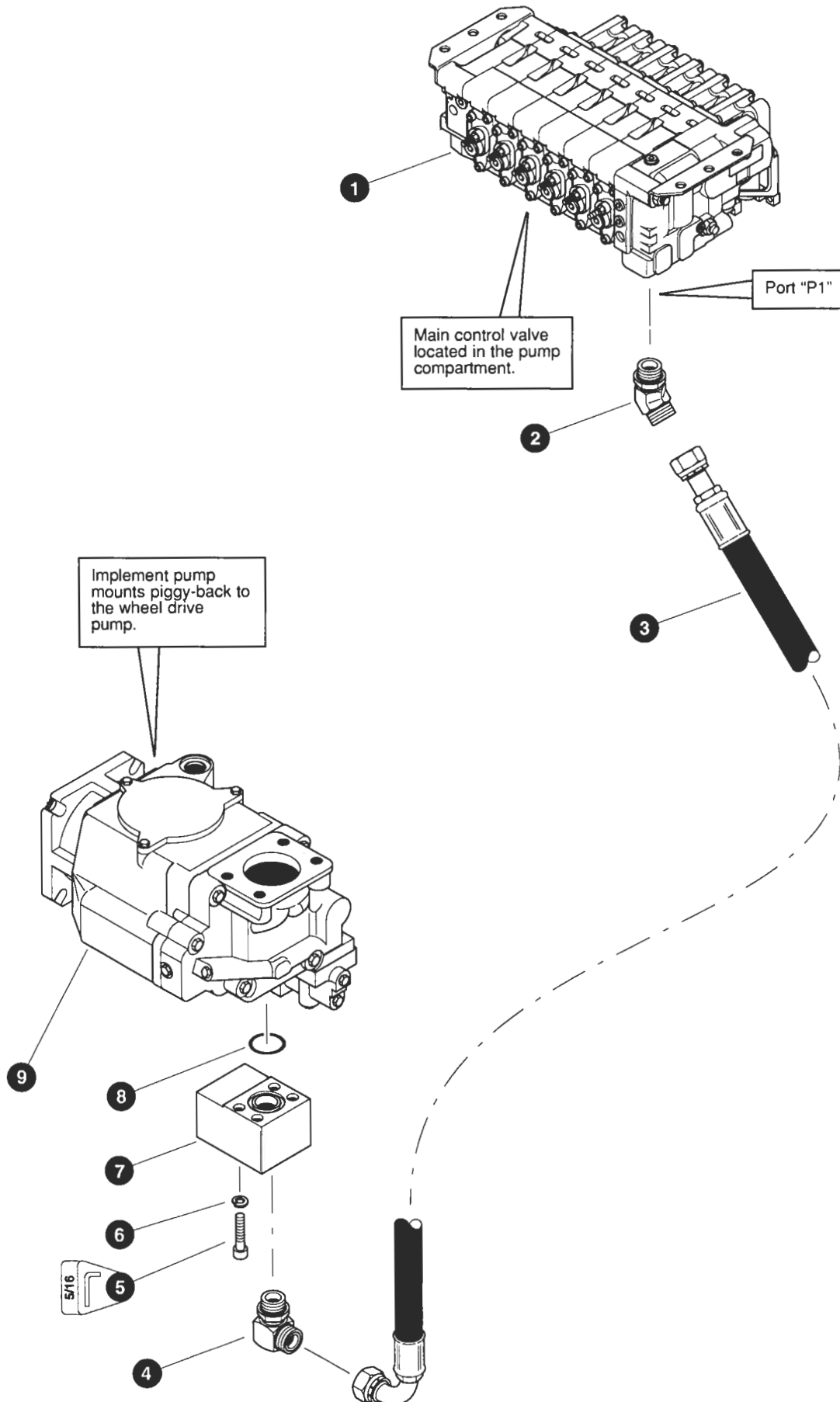


Parts 00162 04/02/97
25.00

IMPLEMENT PUMP PRESSURE LINE TO MAIN CONTROL VALVE*(Used on machines PDN# 053FWD and below)*

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 (Implement pump pressure outlet to main control valve pressure inlet port "P1")	
4	19092	1		CONNECTOR, long straight - FF1854T-1212S	
5	10701	4		WASHER, lock - 3/8"	
6	19580	4		BOLT, allen head - 3/8" x 1-1/2"	
7	19532	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.

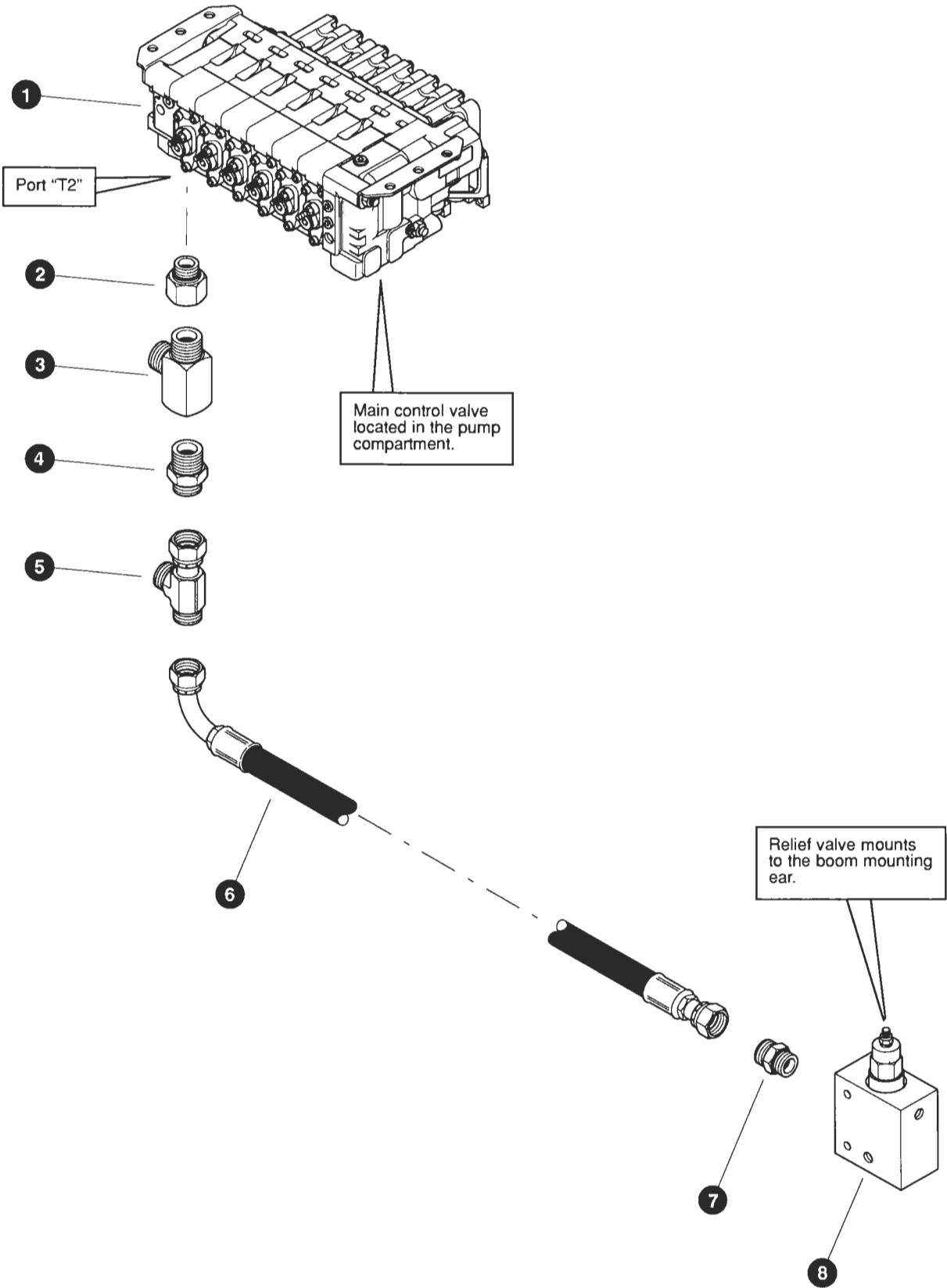


Parts 01129 03/24/99
25.00

IMPLEMENT PUMP PRESSURE LINE TO MAIN CONTROL VALVE*(Used on machines PDN# 054FWD and above)*

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 (Implement pump pressure outlet to main control valve pressure inlet port "P1")	
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

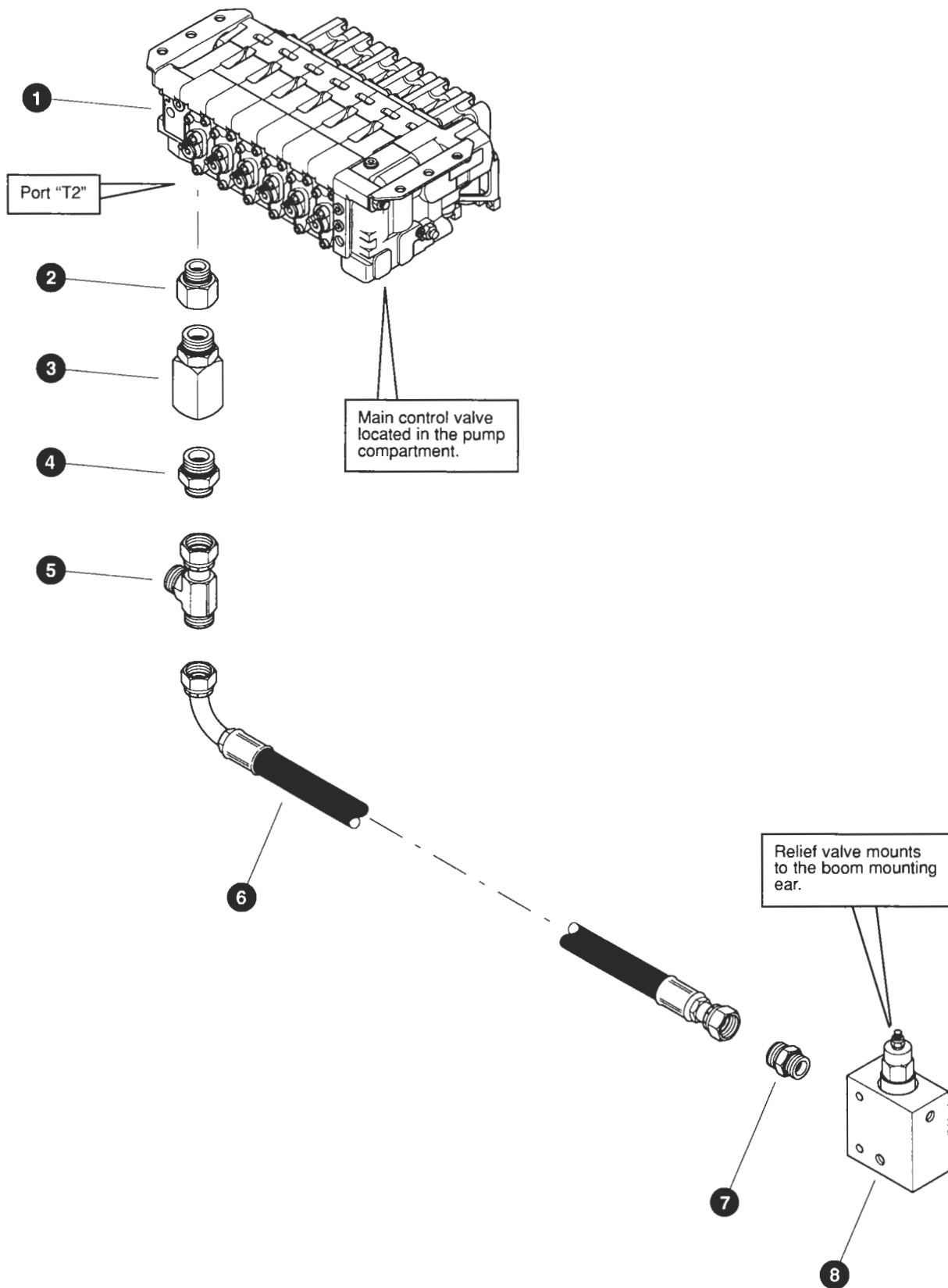
- ✓ See referenced page for component or assembly breakdown.
 □ Kit or Assembly - includes all items indented underneath.



OIL REGENERATION LINE TO MAIN CONTROL VALVE*(Used on machines PDN# 072FWD and below)*

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	15187	1		BUSHING, reducer - 6405-12-16	
3	19531	1		TEE - 5603-16	
4	17707	1		CONNECTOR, straight - FF2031T-1216S	
5	17687	1		TEE - FF2114T-1212S	
6	20100	1		HOSE ASSEMBLY - 2021.5-12-120S-1209 (Relief valve to main control valve regeneration port "T2")	
7	15152	1		CONNECTOR, straight - FF1852T-1212S	
9	REF.	1	✓	RELIEF VALVE	B.1.2

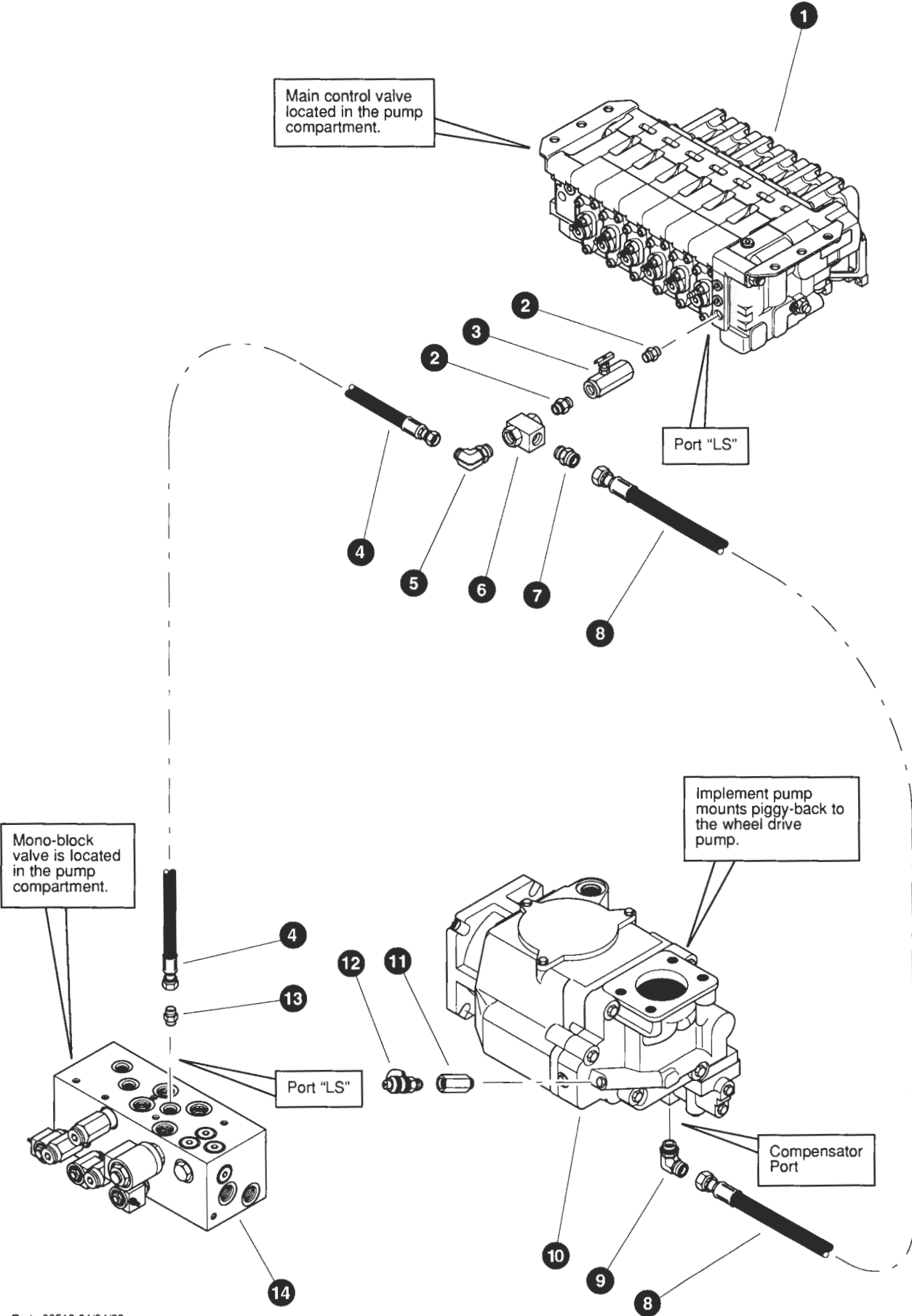
✓ See referenced page for component or assembly breakdown.



OIL REGENERATION LINE TO MAIN CONTROL VALVE*(Used on machines PDN# 073FWD and above)*

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 (Relief valve to main control valve regeneration port "T2")	
7	15152	1		CONNECTOR, straight - FF1852T-1212S	
9	REF.	1	✓	RELIEF VALVE	B.1.2

✓ See referenced page for component or assembly breakdown.



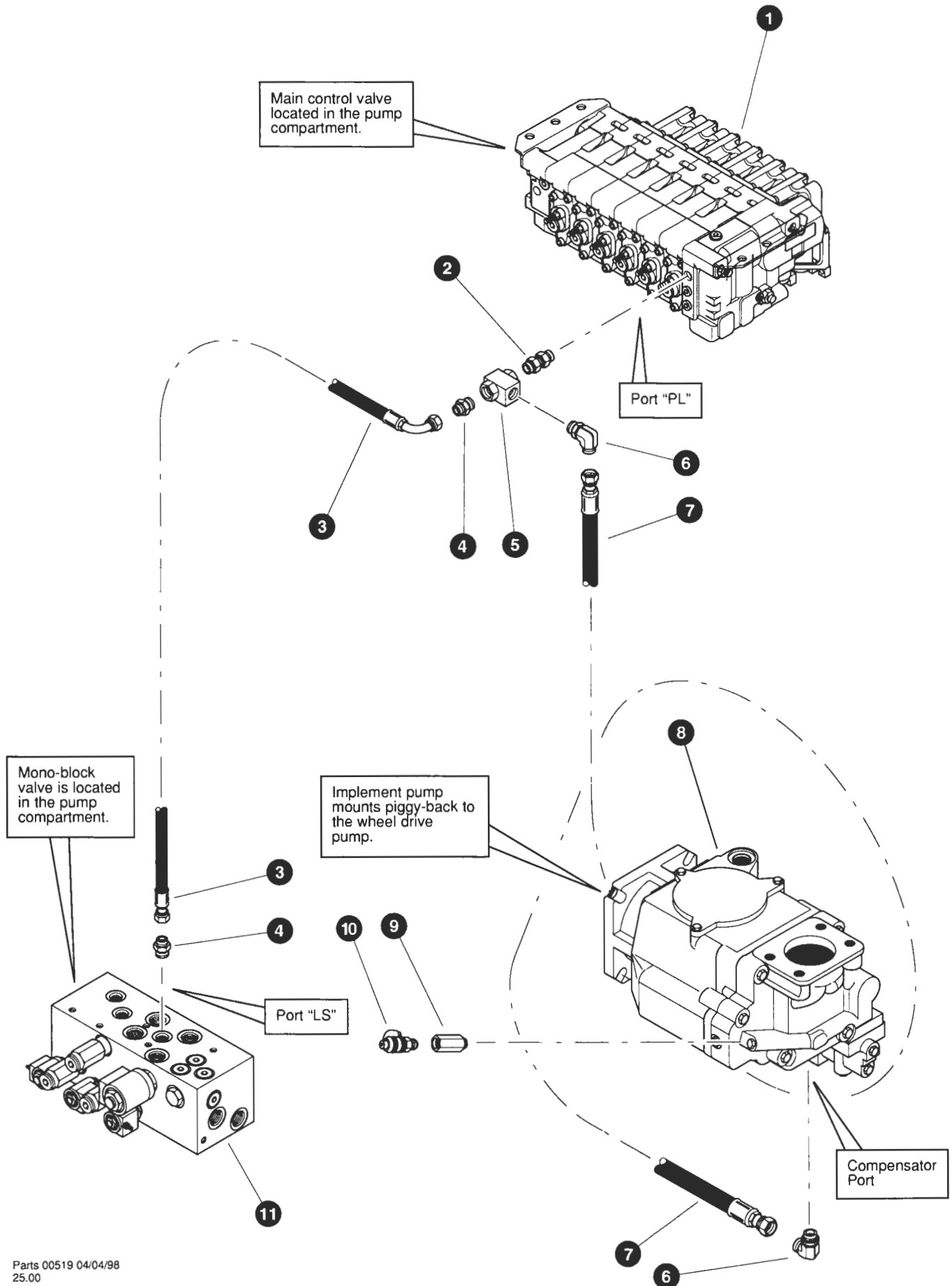
Parts 00518 04/04/98
25.00

MAIN CONTROL VALVE LOAD SENSE LINES (Without Optional Clam Bunk Installed)

(Used on machines PDN# 046FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	15131	2		CONNECTOR, straight - FF2031T-0404S	
3	19367	1		VALVE, free-flow check	
4	20145	1		HOSE ASSEMBLY - 2034-04-040S-040S (Mono-block port "LS" to load sense shuttle)	
5	15133	1		ELBOW, 90° - FF1868T-0406S	
6	19303	1		VALVE, shuttle - load sense signal	
7	18034	1		CONNECTOR, straight - FF1852T-0606S	
8	20102	1		HOSE ASSEMBLY - 2027-06-060S-060S (Load sense shuttle to implement pump compensator port)	
9	16296	1		ELBOW, 90° - FF1868T-0606S	
10	REF.	1	✓	IMPLEMENT PUMP	C.2.2
11	16911	1		CONNECTOR, straight - 7455-2-10mm	
12	16910	1		TAP, gauge port - 1/8" pipe thread	
13	15124	1		CONNECTOR, straight - FF1852T-0406S	
14	REF.	1	✓	MONO-BLOCK VALVE	D.1.6

✓ See referenced page for component or assembly breakdown.



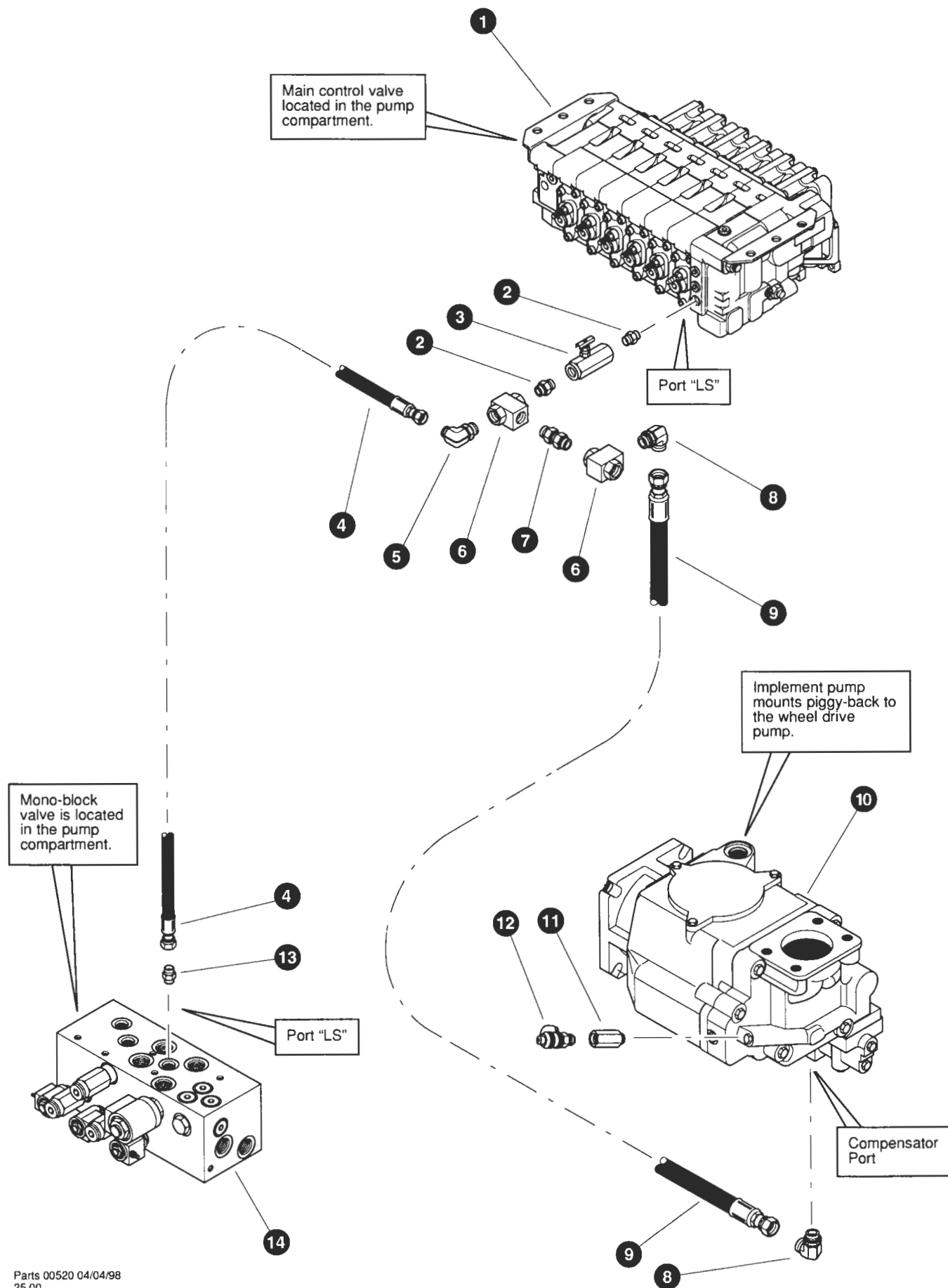
MAIN CONTROL VALVE LOAD SENSE LINES

(Without Optional Clam Bunk Installed)

(Used on machines PDN# 047FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	20679	1		CONNECTOR, straight - 6403-NWO-6 (w/.028" orifice)	
3	20082	1		HOSE ASSEMBLY - 2036.5-04-040S-0409 (Mono-block port "PL" to load sense shuttle)	
4	15124	2		CONNECTOR, straight - FF1852T-0406S	
5	19303	1		VALVE, shuttle - load sense signal	
6	16296	2		ELBOW, 90° - FF1868T-0606S	
7	20538	1		HOSE ASSEMBLY - 2089-06-060S-060S (Load sense shuttle to implement pump compensator port, hose is looped to provide shock absorber effect on signal)	
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.



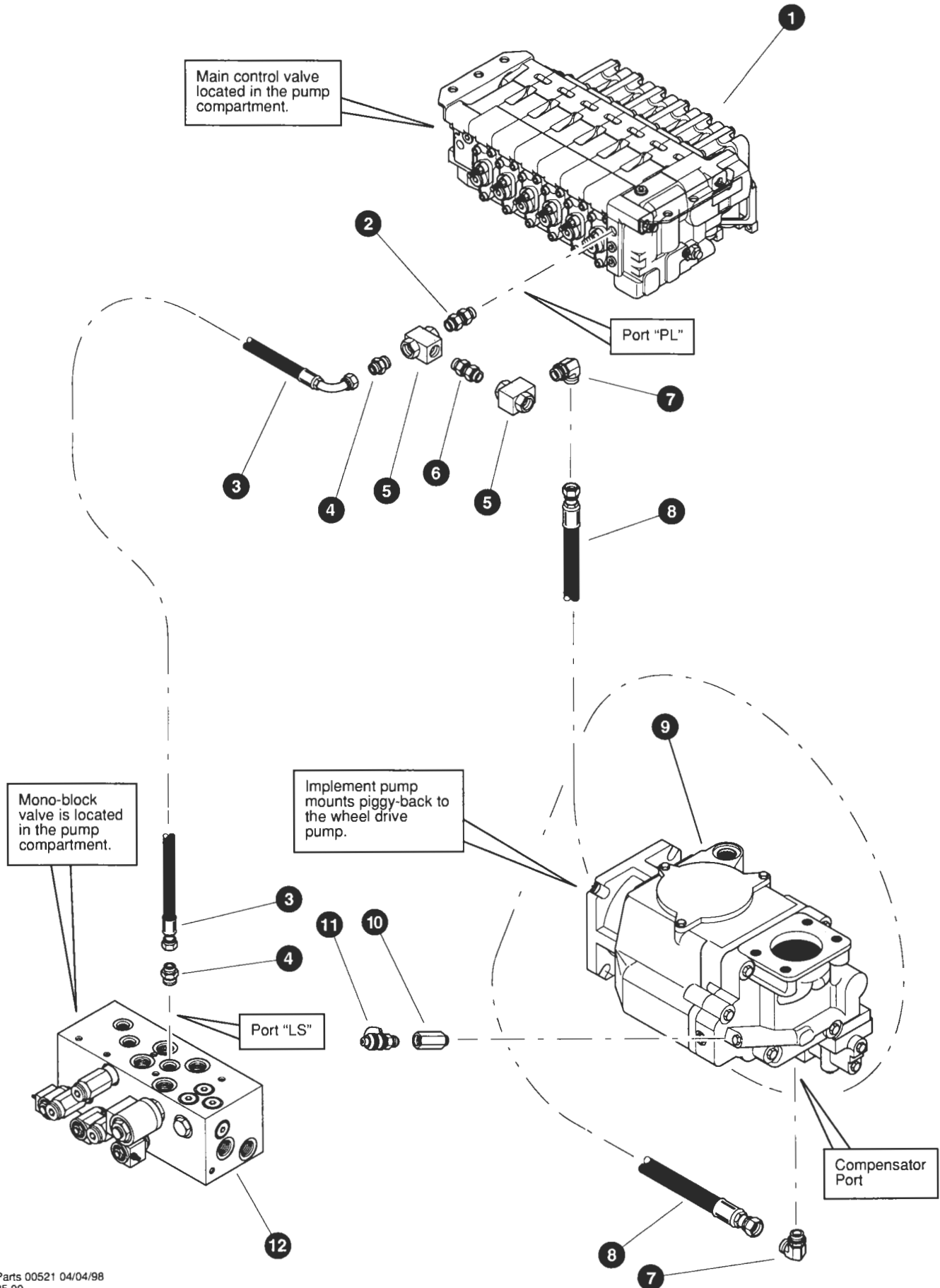
Parts 00520 04/04/98
25.00

MAIN CONTROL VALVE LOAD SENSE LINES (With Optional Clam Bunk Installed)

(Used on machines PDN# 046FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	15131	2		CONNECTOR, straight - FF2031T-0404S	
3	19367	1		VALVE, free-flow check	
4	20145	1		HOSE ASSEMBLY - 2034-04-040S-040S (Mono-block port "LS" to load sense shuttle)	
5	15133	1		ELBOW, 90° - FF1868T-0406S	
6	19303	2		VALVE, shuttle - load sense signal	
7	19366	1		CONNECTOR, straight - 6403-NWO-6	
8	16296	2		ELBOW, 90° - FF1868T-0606S	
9	20202	1		HOSE ASSEMBLY - 2028.5-06-060S-0609 (Load sense shuttle to implement pump compensator port)	
10	REF.	1	✓	IMPLEMENT PUMP	C.2.2
11	16911	1		CONNECTOR, straight - 7455-2-10mm	
12	16910	1		TAP, gauge port - 1/8" pipe thread	
13	15124	1		CONNECTOR, straight - FF1852T-0406S	
14	REF.	1	✓	MONO-BLOCK VALVE	D.1.6

✓ See referenced page for component or assembly breakdown.



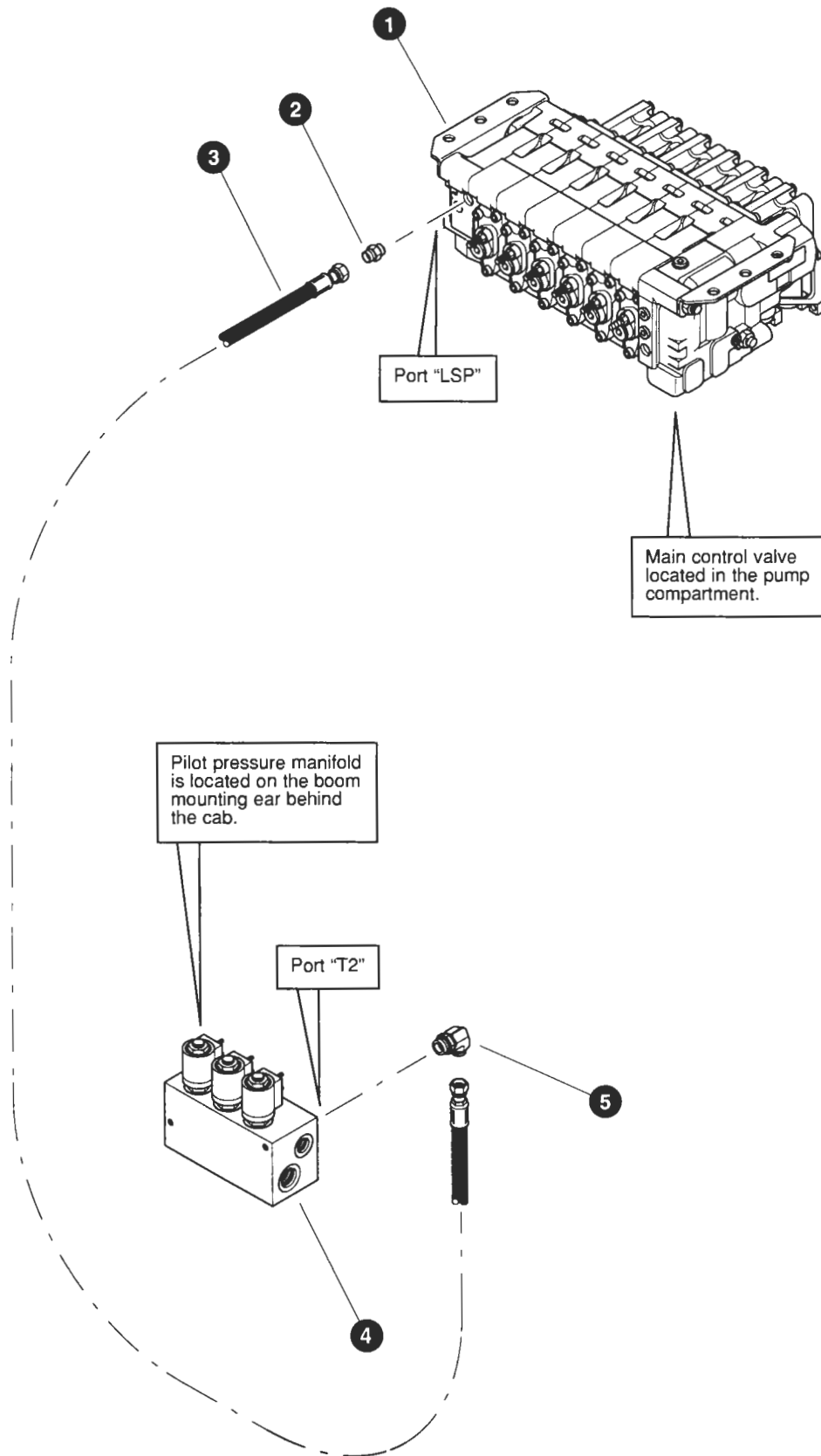
Parts 00521 04/04/98
25.00

MAIN CONTROL VALVE LOAD SENSE LINES (With Optional Clam Bunk Installed)

(Used on machines PDN# 047FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	20679	1		CONNECTOR, straight - 6403-NWO-6 (w/.028" orifice)	
3	20082	1		HOSE ASSEMBLY - 2036.5-04-040S-0409 (Mono-block port "PL" to load sense shuttle)	
4	15124	2		CONNECTOR, straight - FF1852T-0406S	
5	19303	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 (Load sense shuttle to implement pump compensator port, hose is looped to provide a shock absorber effect on the signal)	
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

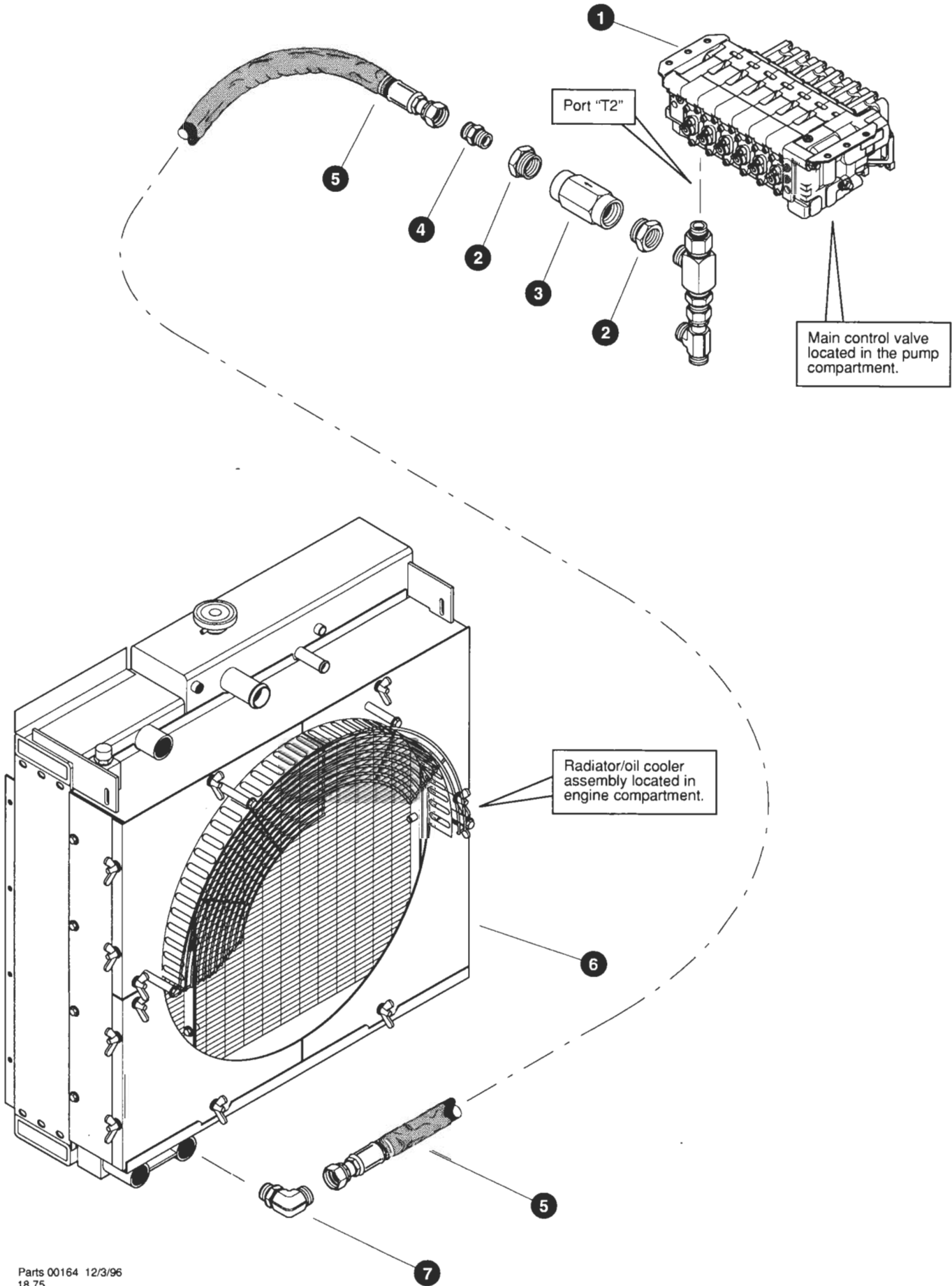
✓ See referenced page for component or assembly breakdown.



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 (Main control valve port "LSP" to pilot pressure manifold port "T2")	
4	REF.	1	✓	PILOT PRESSURE MANIFOLD	D.1.4
5	15133	1		ELBOW, 90° - FF1868T-0406S	

✓ See referenced page for component or assembly breakdown.

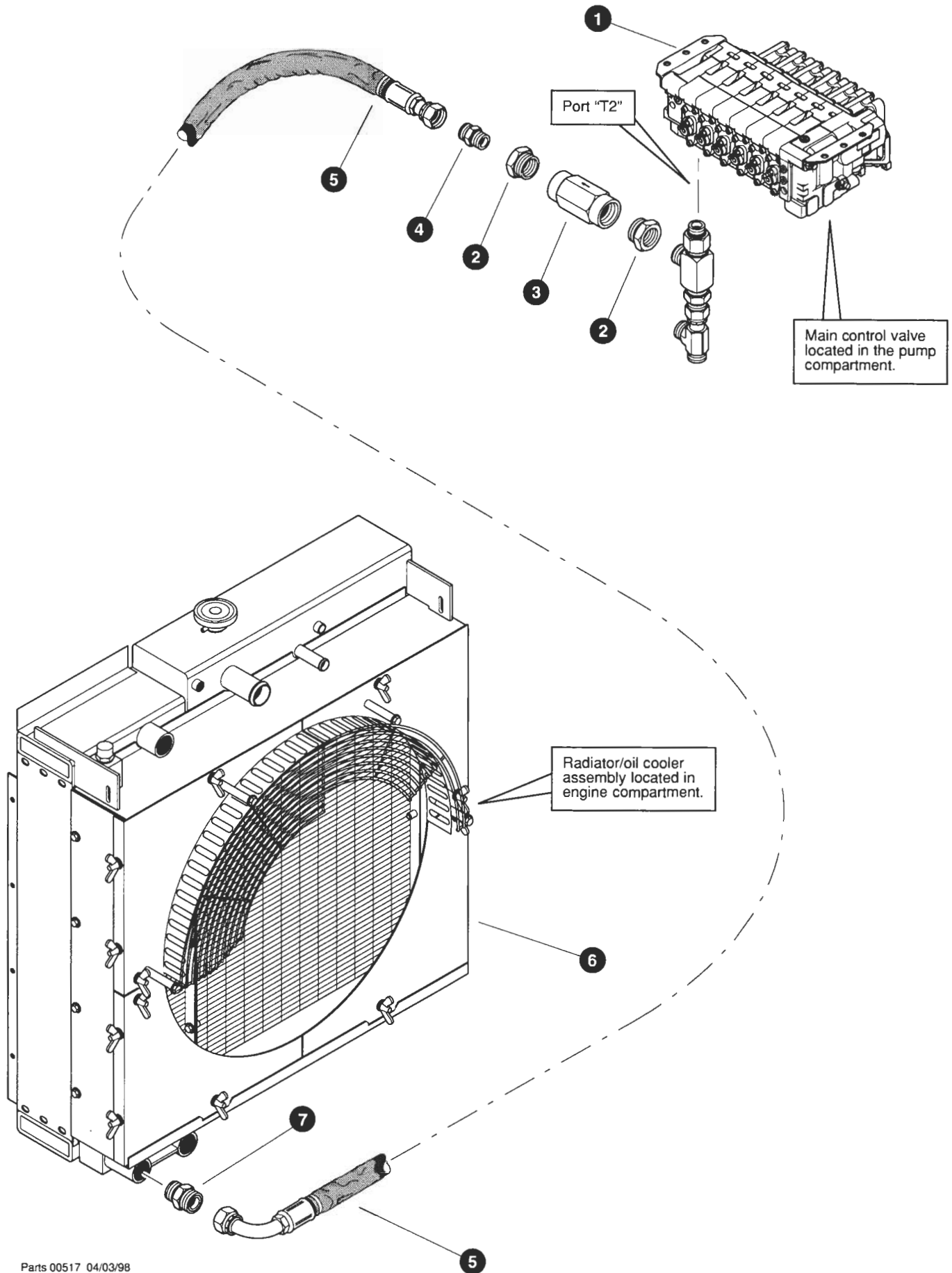


Parts 00164 12/3/96
18.75

RETURN LINES - MAIN CONTROL VALVE TO OIL COOLER*(Used on machines PDN# 048FWD and below)*

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	15512	2		BUSHING, black reducer - 1-1/4" x 1"	
3	16718	1		VALVE, check - 150 psi	
4	15179	1		CONNECTOR, straight - FF2031T-1616S	
5	20826	1		HOSE ASSEMBLY - 2075-16-160S-160S (Main control valve return outlet check valve to oil cooler bottom port)	
8	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
7	15228	1		ELBOW, 90° - FF1868T-1616S	

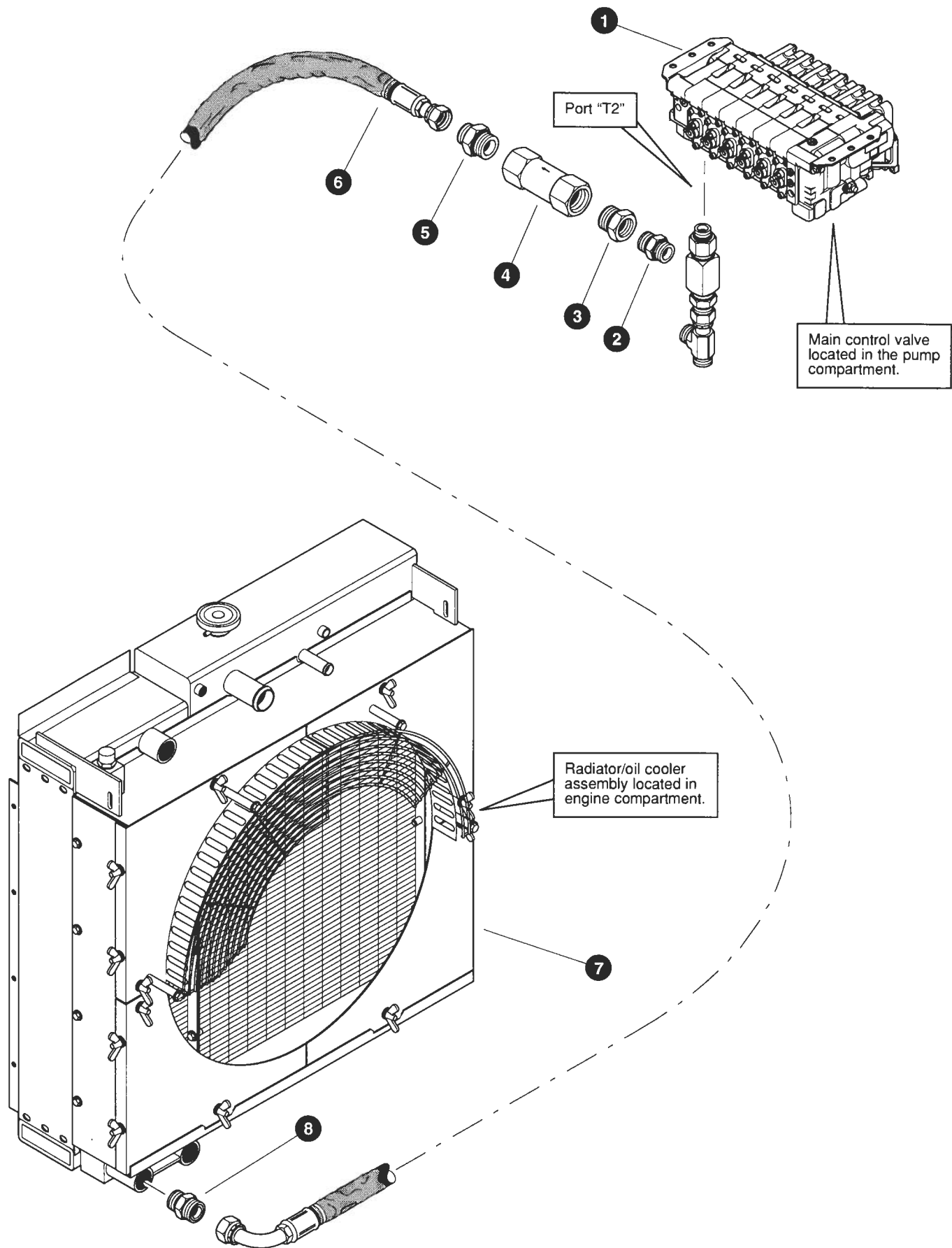
✓ See referenced page for component or assembly breakdown.



RETURN LINES - MAIN CONTROL VALVE TO OIL COOLER*(Used on machines PDN# 049FWD thru PDN# 072FWD)*

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	15512	2		BUSHING, black reducer - 1-1/4" x 1"	
3	16718	1		VALVE, check - 150 psi	
4	15179	1		CONNECTOR, straight - FF2031T-1616S	
5	20820	1		HOSE ASSEMBLY - 2078-16-160S-1609 (Main control valve return outlet check valve to oil cooler bottom port)	
8	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
7	15225	1		CONNECTOR, straight - FF1852T-1616S	

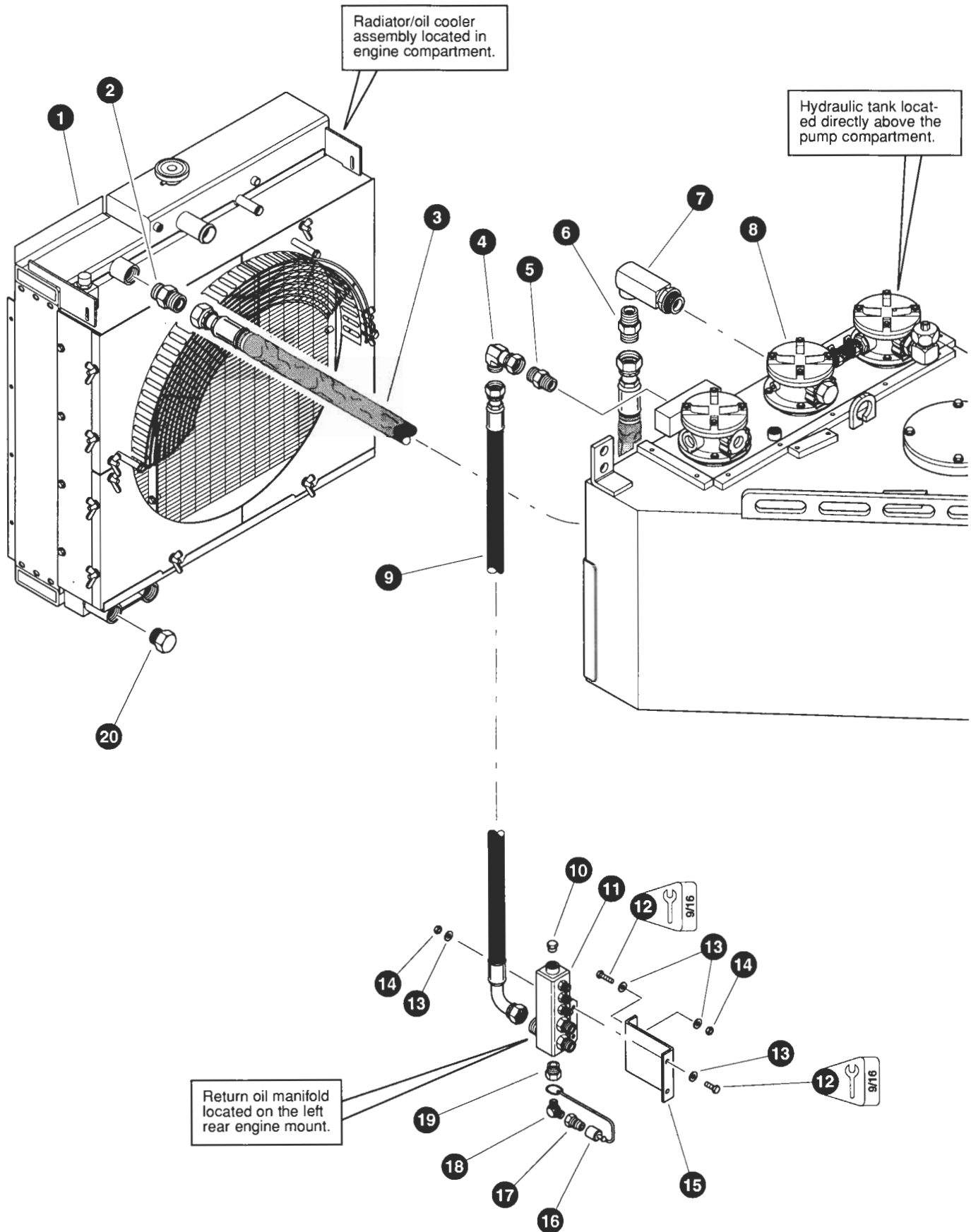
✓ See referenced page for component or assembly breakdown.



RETURN LINES - MAIN CONTROL VALVE TO OIL COOLER*(Used on machines PDN# 073FWD and above)*

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 (Main control valve return outlet check valve to oil cooler bottom port)	
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.

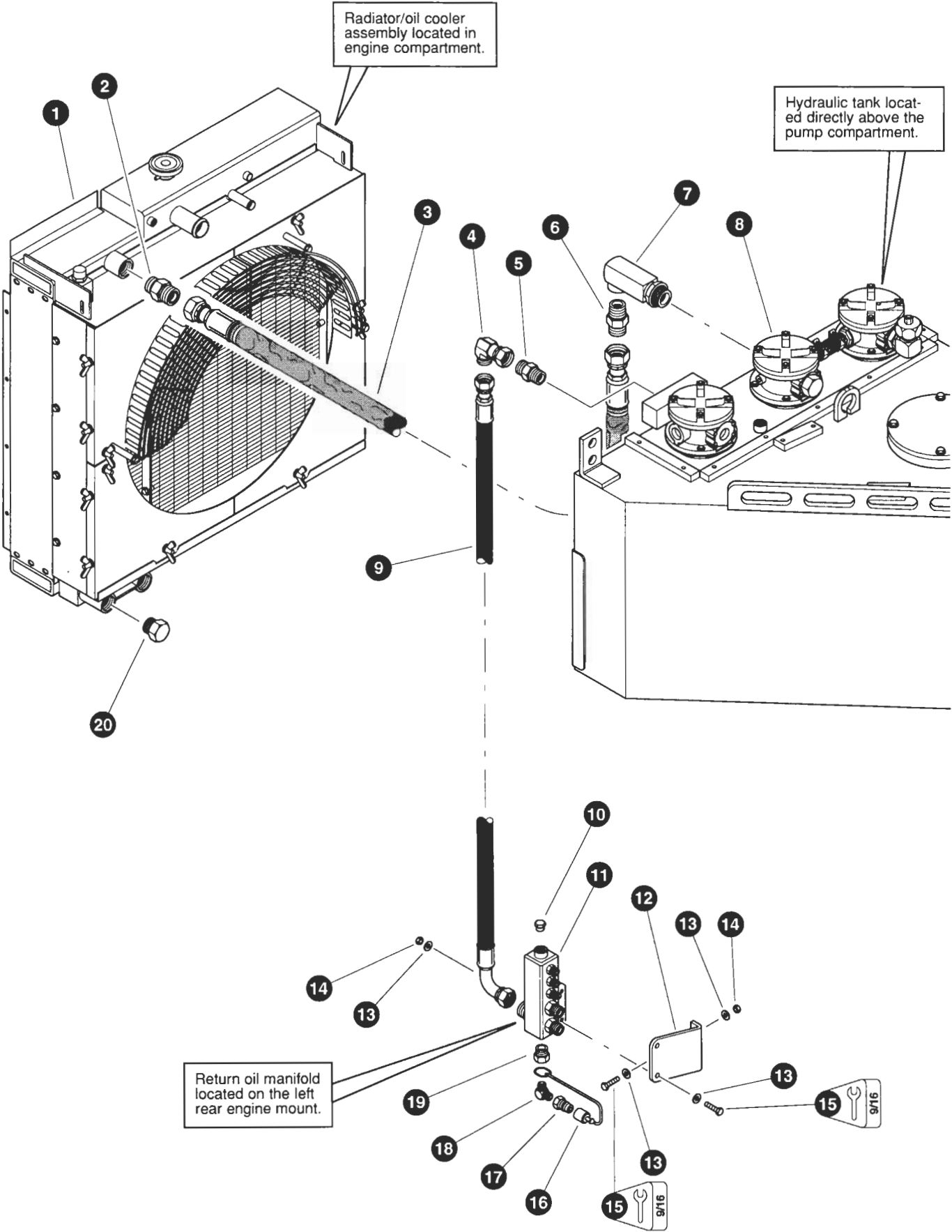


Parts 00298 12/04/97
18.75

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

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 (Oil cooler top port to center return filter)	
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 (Return oil manifold to case drain return filter manifold)	
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 (Male)	
17	17307M	1		QUICK-DISCONNECT - 1/2" (Male)	
18	17487	1		ELBOW, 90° - 5500-8	
19	15513	1		BUSHING, reducer - 5406-12-8	
20	16034	1		PLUG - FF9767-16S	

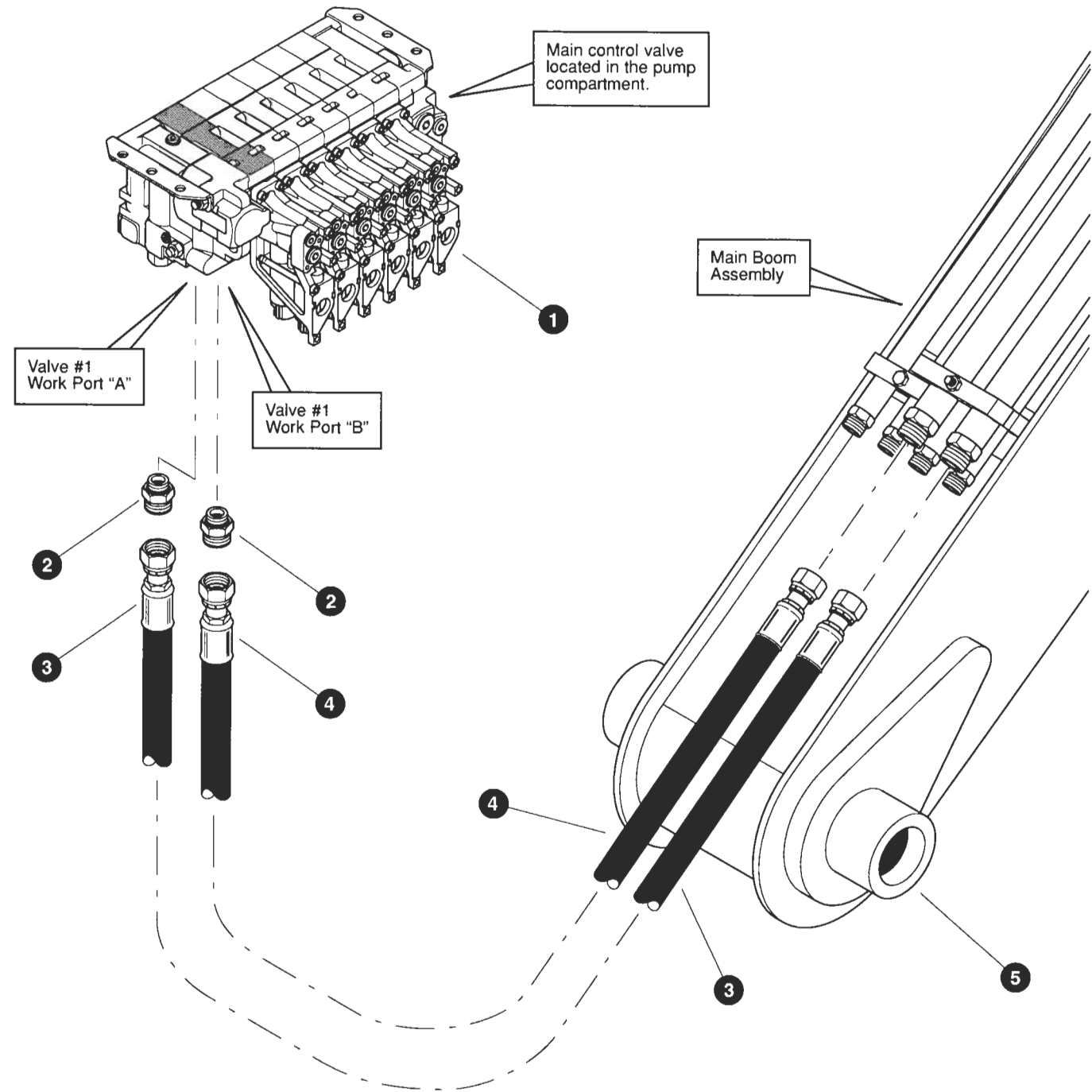
✓ See referenced page for component or assembly breakdown.



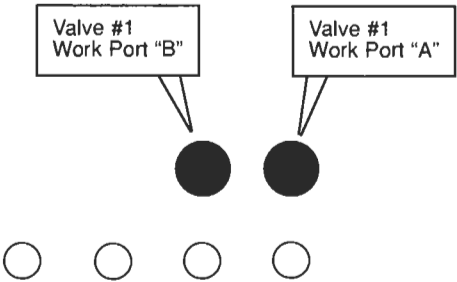
RETURN LINES - OIL COOLER & MANIFOLD TO TANK (Caterpillar 3116T/3126T Engines)

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 (Oil cooler top port to center return filter)	
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 (Return oil manifold to case drain return filter manifold)	
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 (Male)	
17	17307M	1		QUICK-DISCONNECT - 1/2" (Male)	
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.



Main boom tubeline connections
as viewed from rear of machine.



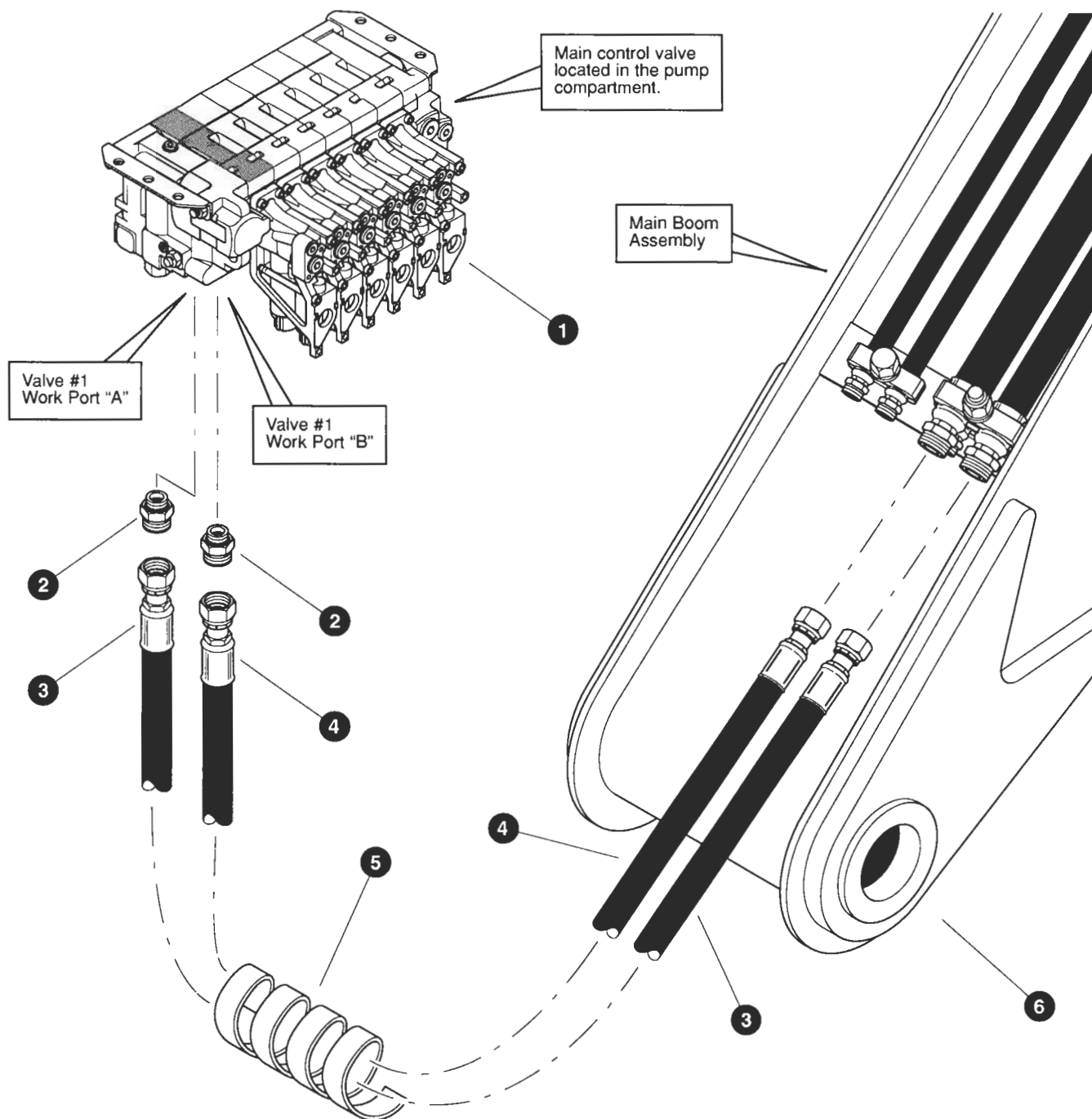
WORK PORT LINES - STICK BOOM FUNCTION

(Main Control Valve To Main Boom Tubelines)

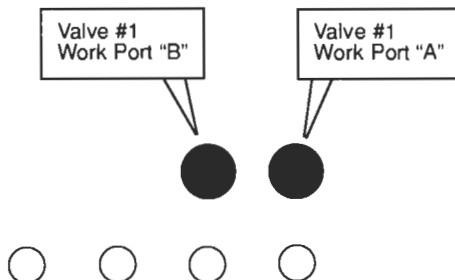
(Used on machines PDN# 044FWD and below)

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 (Stick boom valve section #1 work port "A" to main boom upper engine-side tubeline)	
4	20109	1		HOSE ASSEMBLY - 4067-12-120S-120S (Stick boom valve section #1 work port "B" to main boom upper cab-side tubeline)	
5	REF.	1	✓	MAIN BOOM ASSEMBLY	H.1.2

✓ See referenced page for component or assembly breakdown.



Main boom hose connections as viewed from rear of machine.



WORK PORT LINES - STICK BOOM FUNCTION

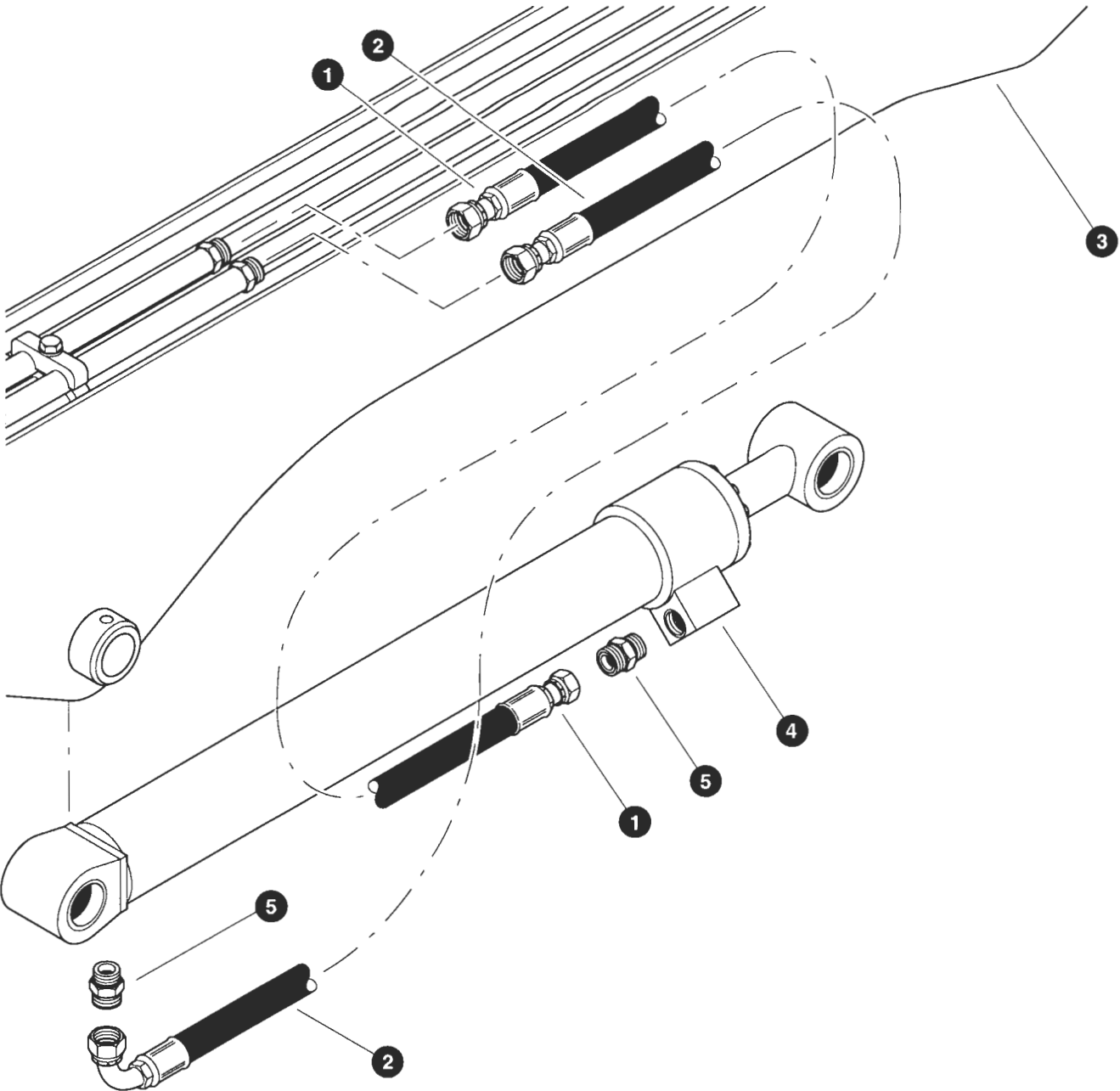
(Main Control Valve To Main Boom Tubelines)

(Used on machines PDN# 045FWD and above)

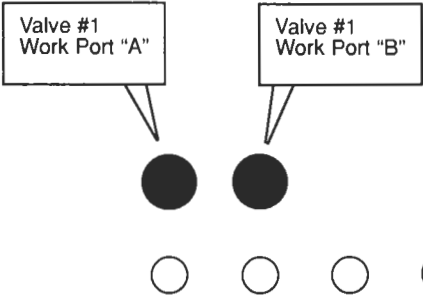
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	16851	2		CONNECTOR, straight - FF1852T-1210S	
3	20108	1		HOSE ASSEMBLY - 4069-12-120S-120S (Stick boom valve section #1 work port "A" to main boom upper engine-side hoseline)	
4	20109	1		HOSE ASSEMBLY - 4067-12-120S-120S (Stick boom valve section #1 work port "B" to main boom upper cab-side hoseline)	
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 meters.



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



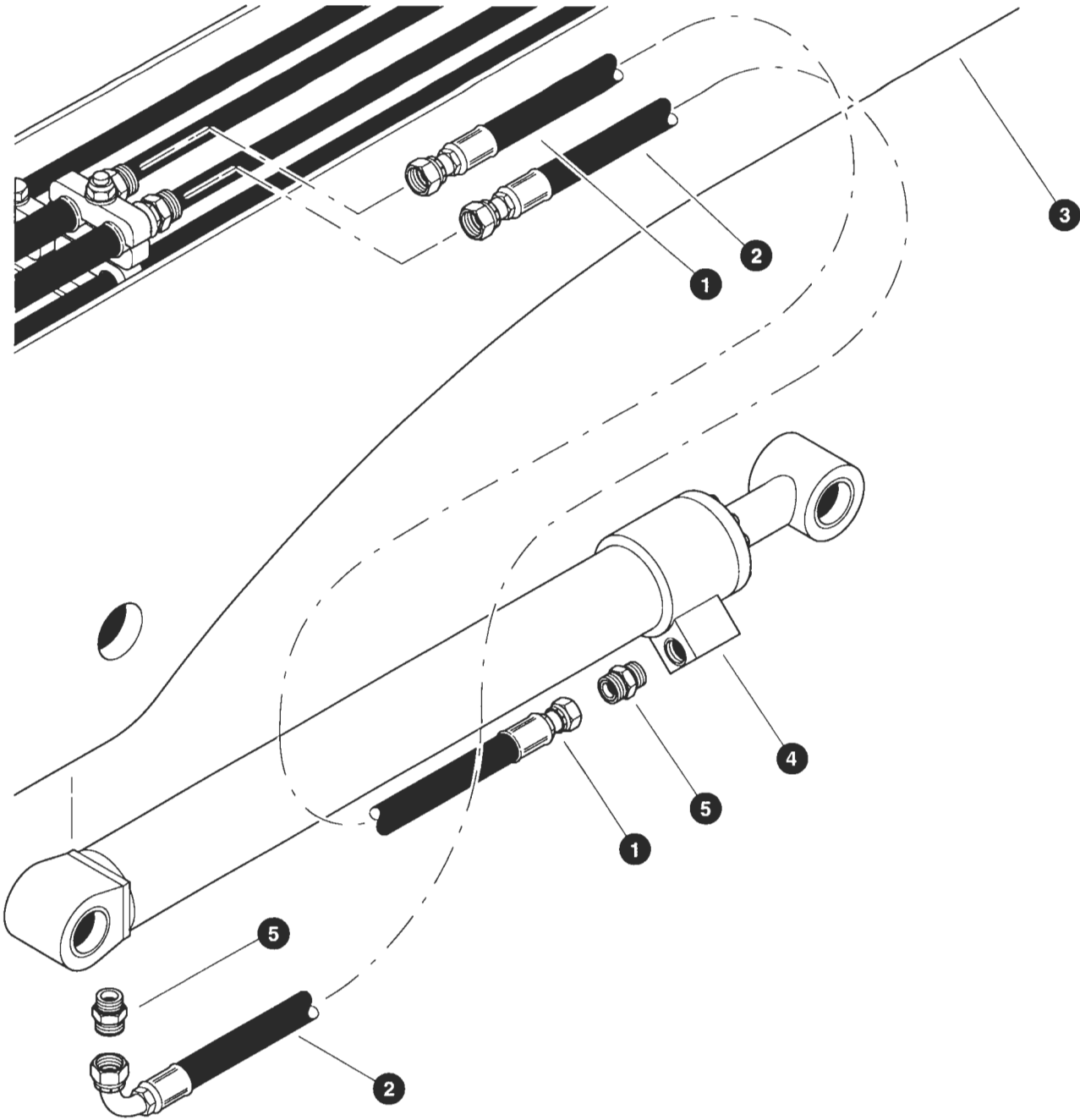
WORK PORT LINES - STICK BOOM FUNCTION

(Main Boom Tubelines To Stick Boom Cylinder)

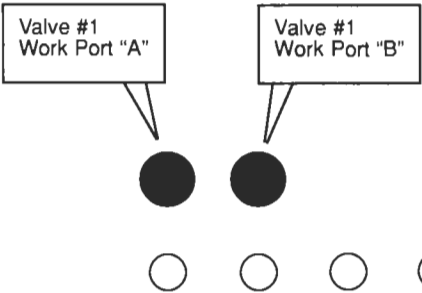
(Used on machines PDN# 044FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20110	1		HOSE ASSEMBLY - 4057-12-120S-120S (Main boom upper engine-side tubeline to stick boom cylinder rod port)	
2	19007	1		HOSE ASSEMBLY - 4055-12-120S-1209 (Main boom upper cab-side tubeline to stick boom cylinder base port)	
3	REF.	1	✓	MAIN BOOM ASSEMBLY	H.2.2
4	REF.	1	✓	STICK BOOM CYLINDER	E.2.4
5	15152	2		CONNECTOR, straight - FF1852T-1212S	

✓ See referenced page for component or assembly breakdown.



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



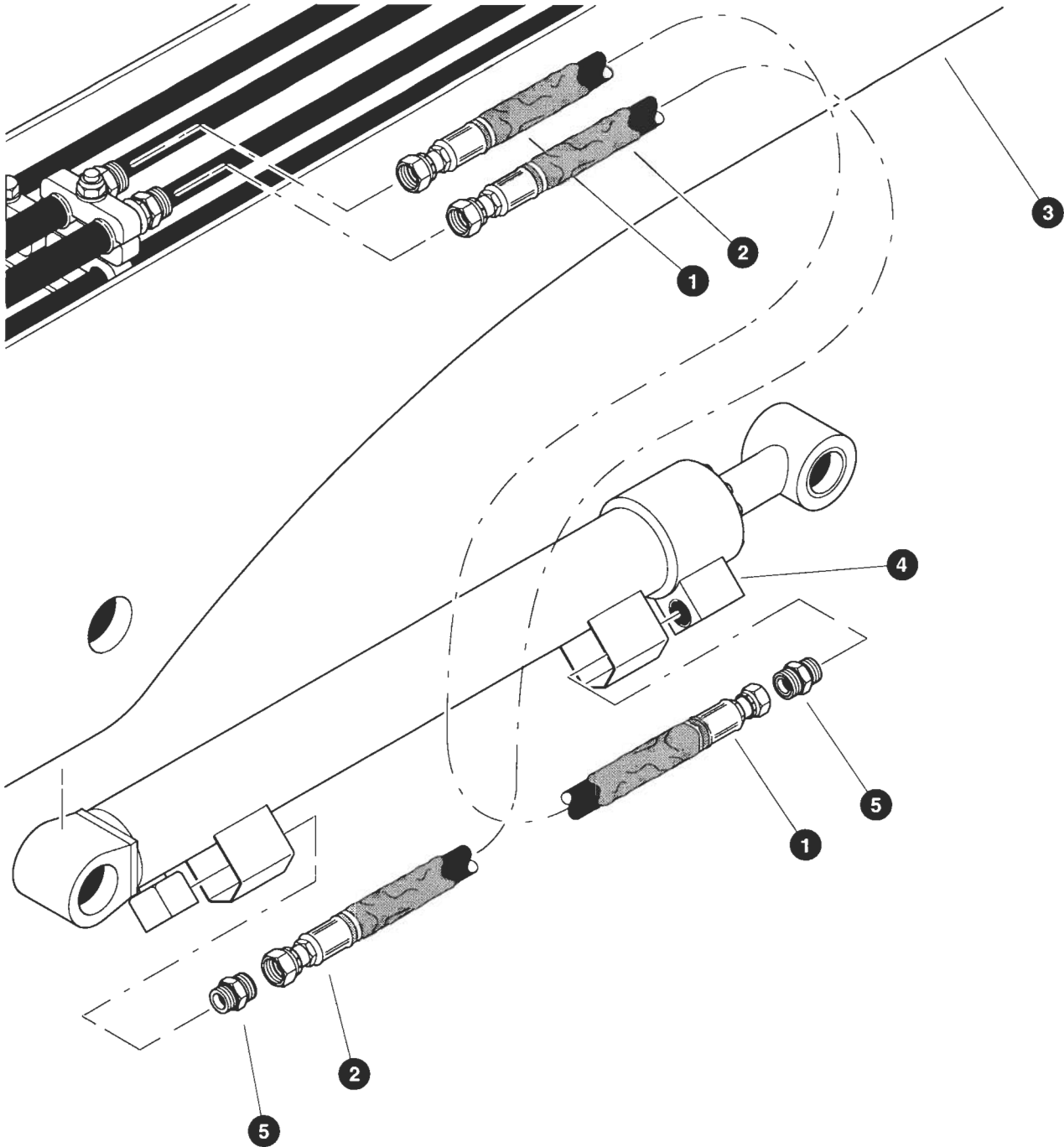
WORK PORT LINES - STICK BOOM FUNCTION

(Main Boom Tubelines To Stick Boom Cylinder)

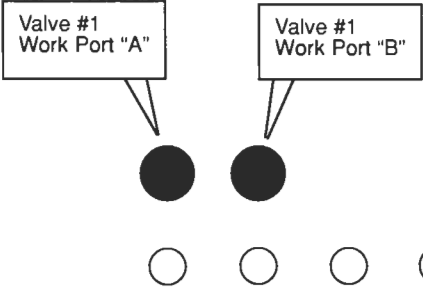
(Used on machines PDN# 045 thru PDN# 059 FWD)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20110	1		HOSE ASSEMBLY - 4057-12-120S-120S (Main boom upper engine-side hoseline to stick boom cylinder rod port)	
2	19007	1		HOSE ASSEMBLY - 4055-12-120S-1209 (Main boom upper cab-side hoseline to stick boom cylinder base port)	
3	REF.	1	✓	MAIN BOOM ASSEMBLY	H.2.2
4	REF.	1	✓	STICK BOOM CYLINDER	E.2.4
5	15152	2		CONNECTOR, straight - FF1852T-1212S	

✓ See referenced page for component or assembly breakdown.



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



Parts 01702 05/22/2000
25.00

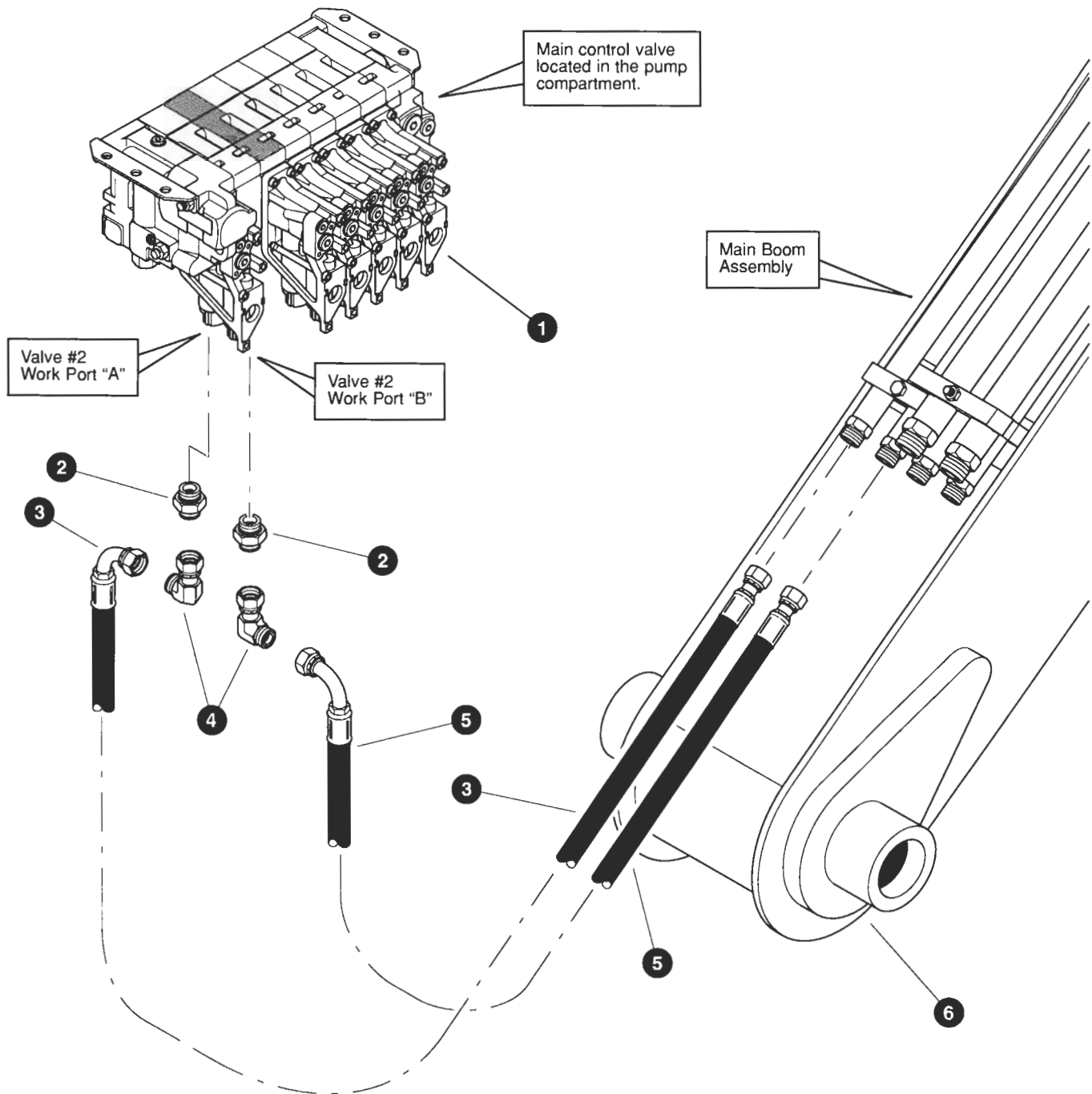
WORK PORT LINES - STICK BOOM FUNCTION

(Main Boom Tubelines To Stick Boom Cylinder)

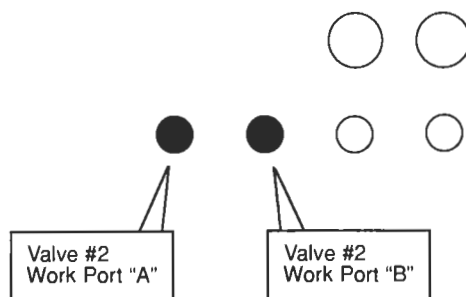
(Used on machines PDN# 059FWD and above)

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 tubeline connections
as viewed from rear of machine.



Parts 00171 12/15/97
25.00

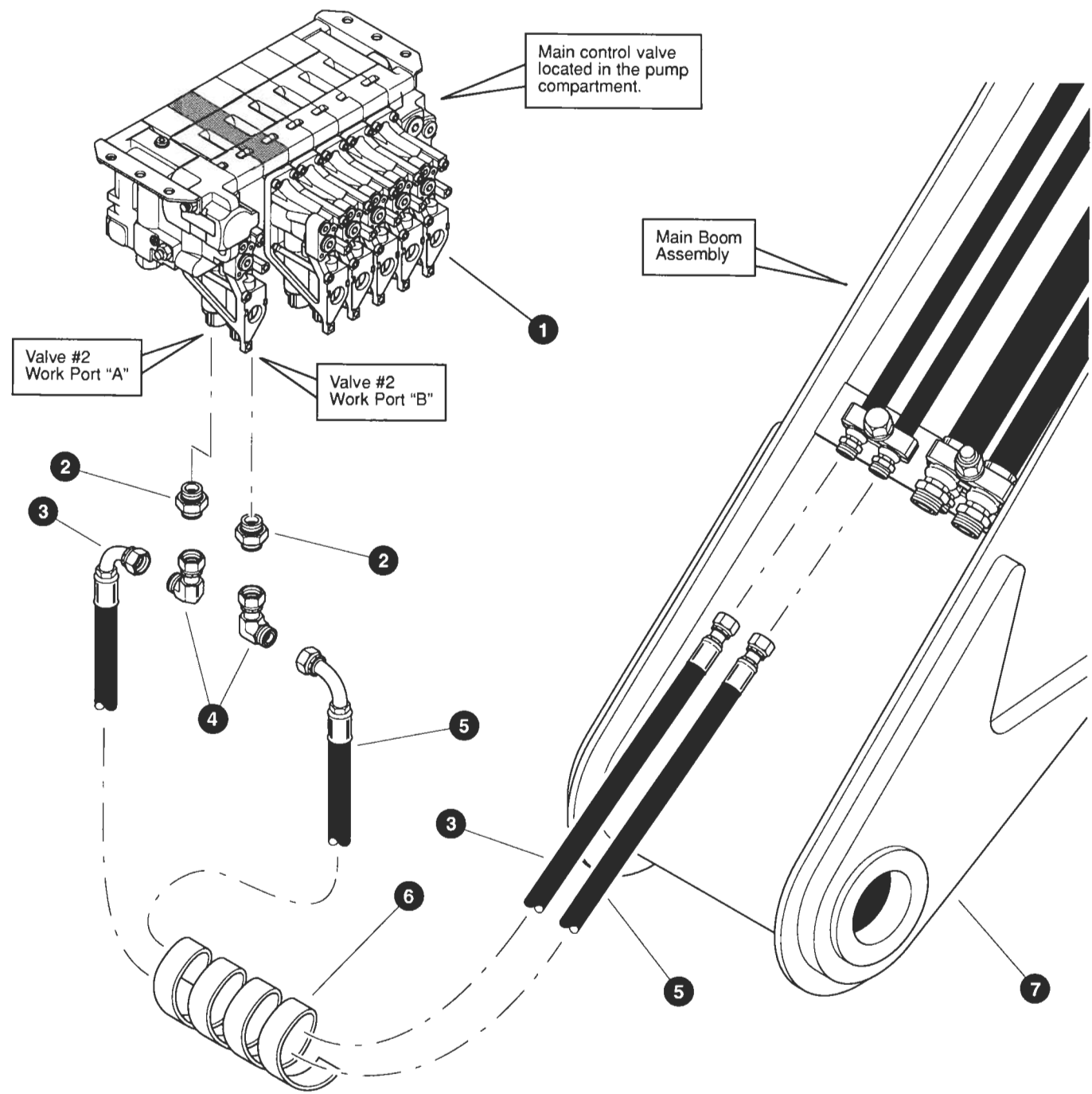
WORK PORT LINES - GRAPPLE OPEN/CLOSE FUNCTION

(Main Control Valve To Main Boom Tubelines)

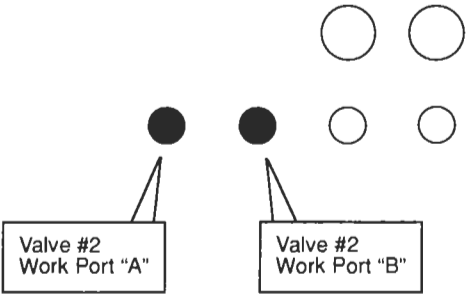
(Used on machines PDN# 044FWD and below)

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 (Grapple valve section #2 work port "A" to main boom lower outer engine-side tubeline)	
4	16297	2		ELBOW, 90° swivel - FF2098T-0808S	
5	20111	1		HOSE ASSEMBLY - 4069-08-080S-0809 (Grapple valve section #2 work port "B" to main boom lower middle engine-side tubeline)	
6	REF.	1	✓	MAIN BOOM ASSEMBLY	H.1.2

✓ 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

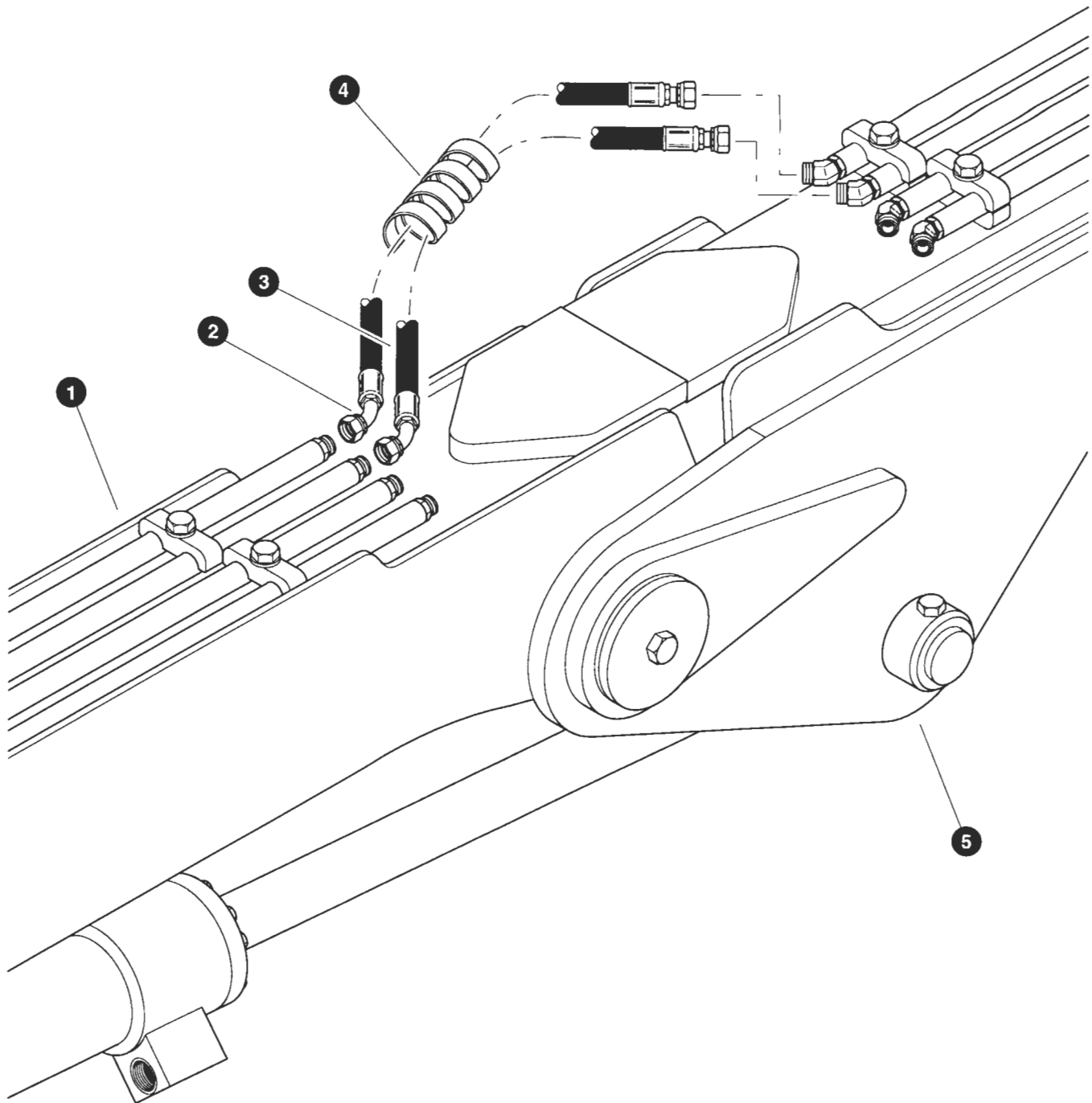
(Main Control Valve To Main Boom Tubelines)

(Used on machines PDN# 045FWD and above)

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 (Grapple valve section #2 work port "A" to main boom lower outer engine-side hoseline)	
4	16297	2		ELBOW, 90° swivel - FF2098T-0808S	
5	20111	1		HOSE ASSEMBLY - 4069-08-080S-0809 (Grapple valve section #2 work port "B" to main boom lower middle engine-side hoseline)	
6	20457	AR	⌘	PROTECTOR, spiral hose wrap - 3-1/2"	
7	REF.	1	✓	MAIN BOOM ASSEMBLY	H.1.2

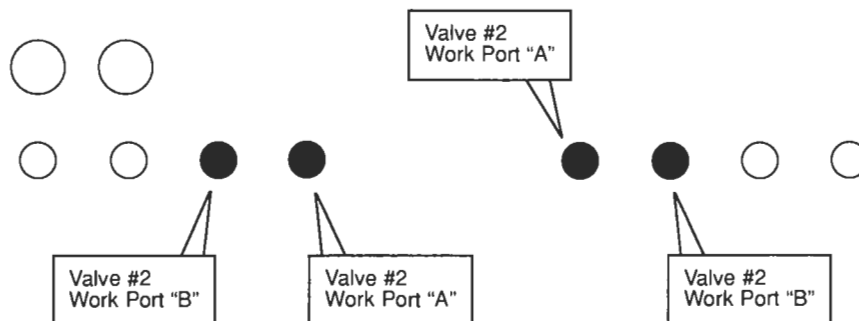
✓ See referenced page for component or assembly breakdown.

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



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

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



Parts 00172 12/15/97
25.00

WORK PORT LINES - GRAPPLE OPEN/CLOSE FUNCTION

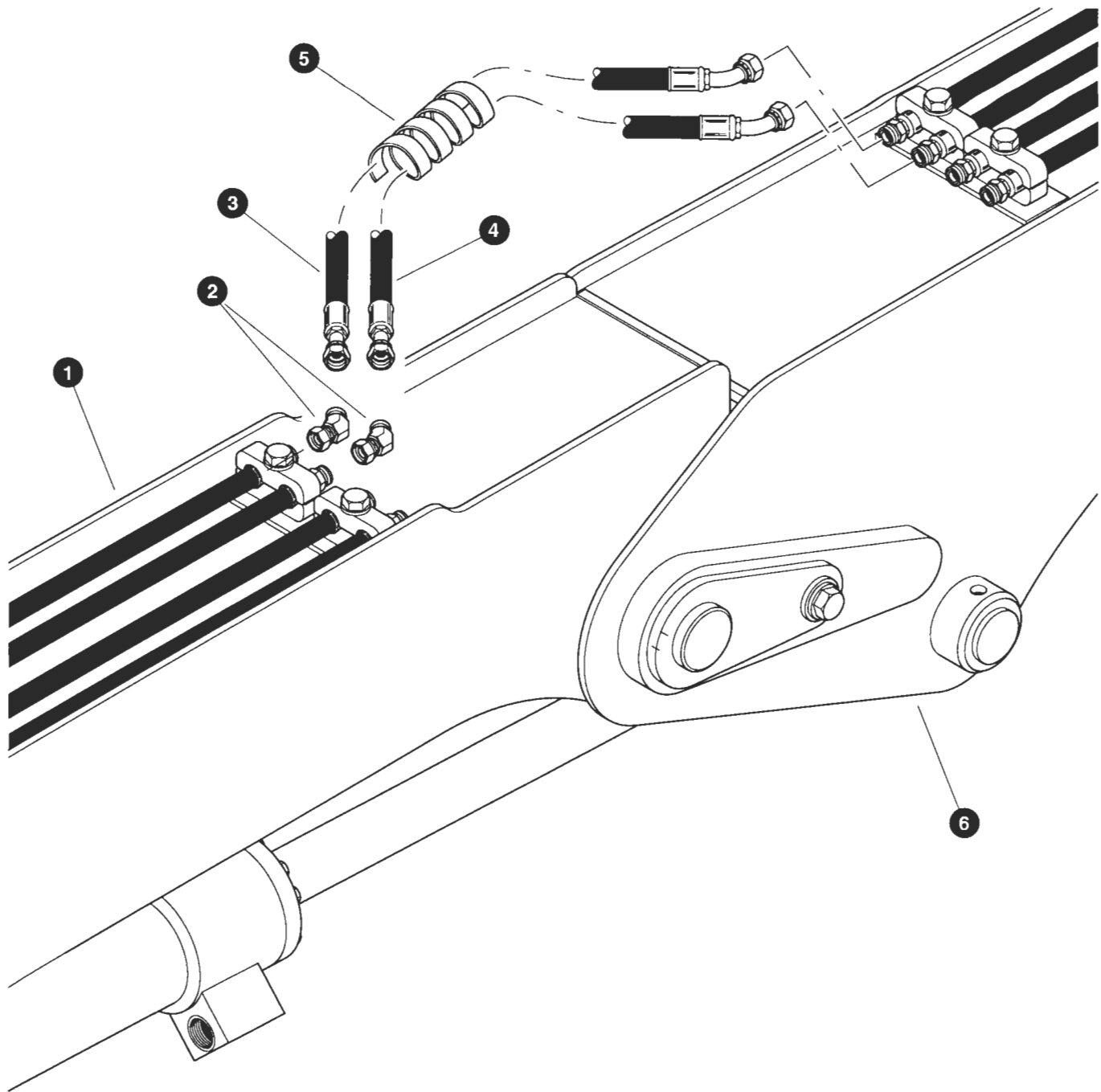
(Main Boom Tubelines To Stick Boom Tubelines)

(Used on machines PDN# 044FWD and below)

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

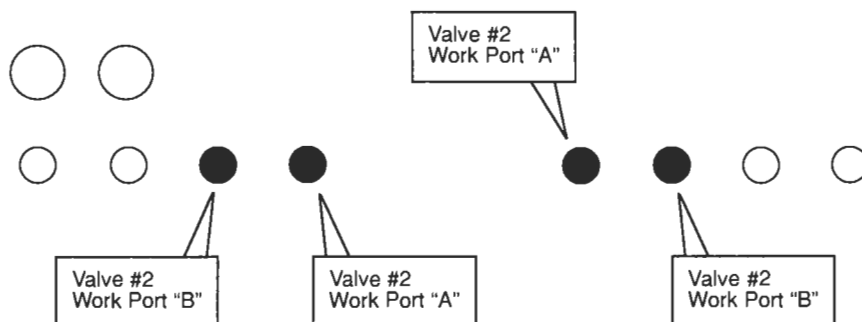
✓ See referenced page for component or assembly breakdown.

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



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

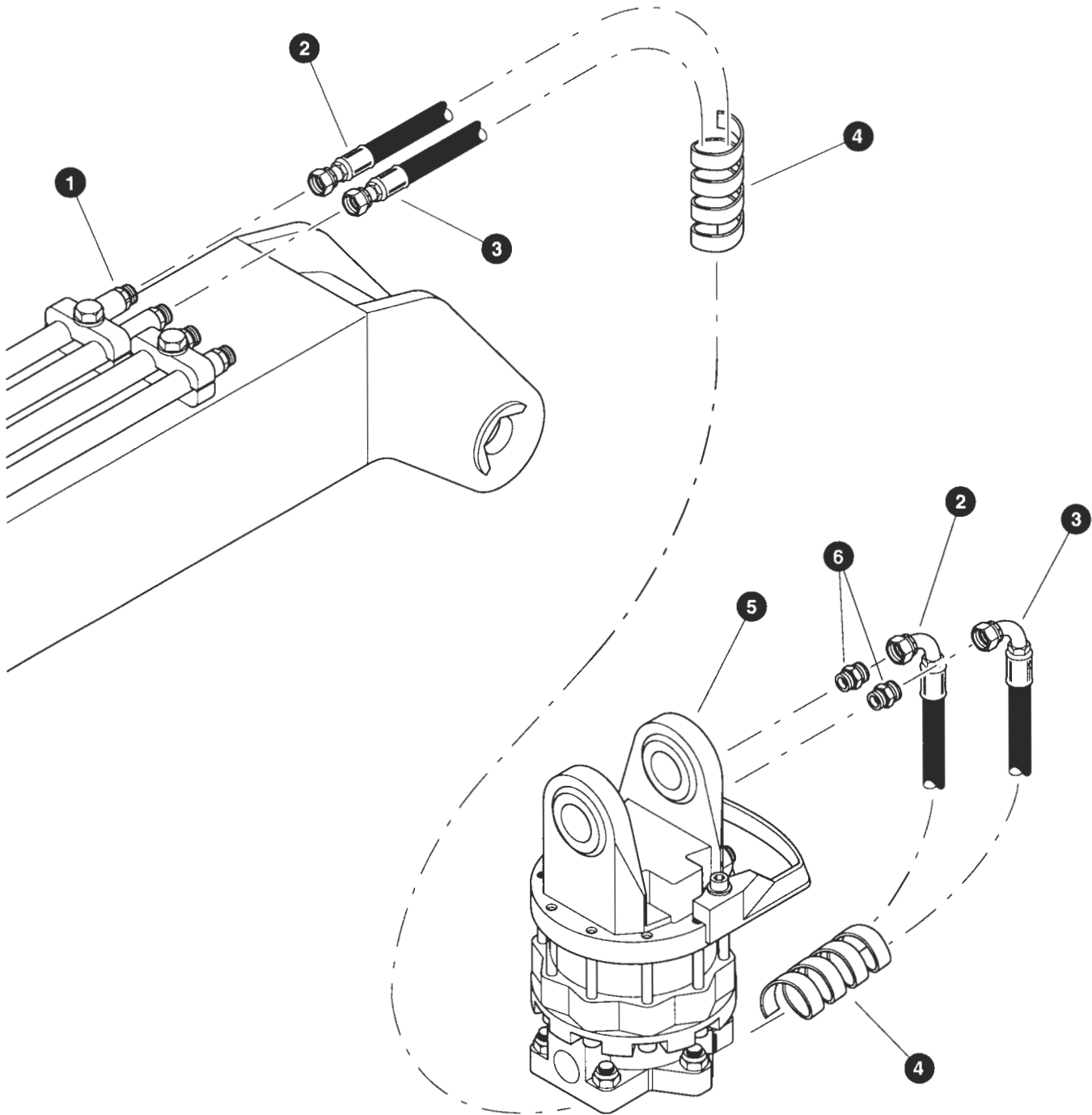
(Main Boom Tubelines To Stick Boom Tubelines)

(Used on machines PDN# 045FWD and above)

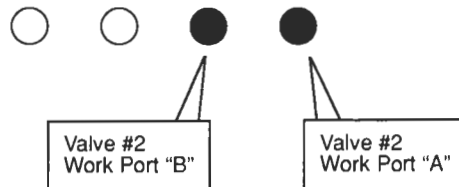
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN BOOM ASSEMBLY	H.2.2
2	20678	2		ELBOW, 45° swivel - FF2133T-0808S	
3	20112	1		HOSE ASSEMBLY - 4045.5-08-080S-0804 (Main boom lower outer engine-side hoseline to stick boom outer engine-side hoseline)	
4	20113	1		HOSE ASSEMBLY - 4047-08-080S-0804 (Main boom lower middle engine-side hoseline to stick boom middle engine-side hoseline)	
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 meters.



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



Parts 00339 12/15/97
25.00

WORK PORT LINES - GRAPPLE OPEN/CLOSE FUNCTION

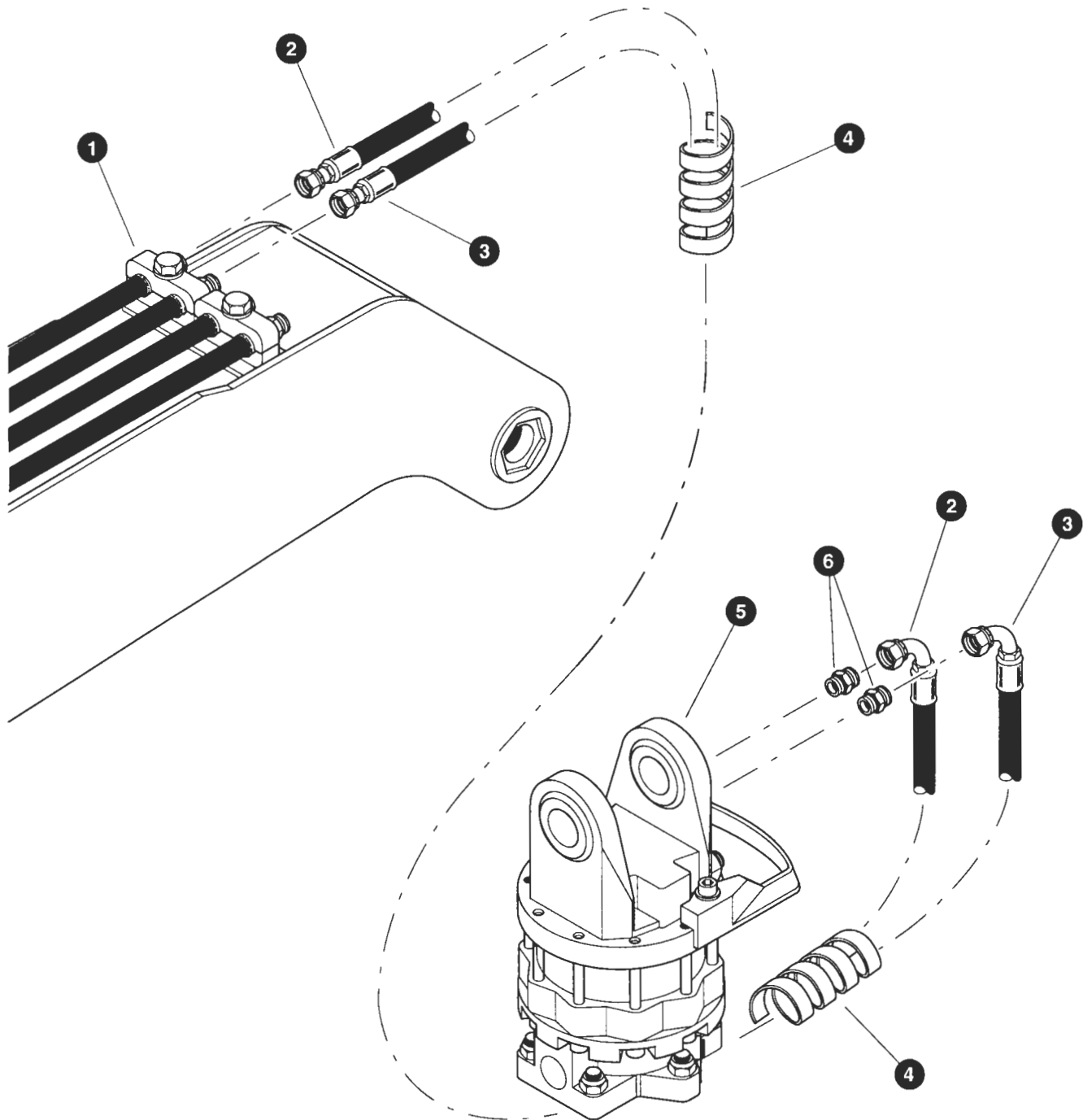
(Stick Boom Tubelines To Grapple Bucket)

(Used on machines PDN# 04FWD and below)

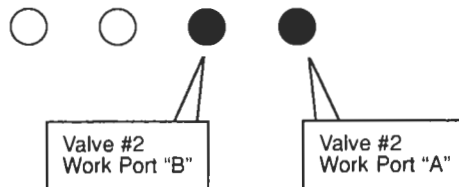
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2
2	15268	1		HOSE ASSEMBLY - 4047-08-080S-0809 (Stick boom outer engine-side tubeline to grapple outer engine-side port)	
3	15268	1		HOSE ASSEMBLY - 4047-08-080S-0809 (Stick boom middle engine-side tubeline to grapple middle engine-side port)	
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 meters.



Stick boom hose line 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

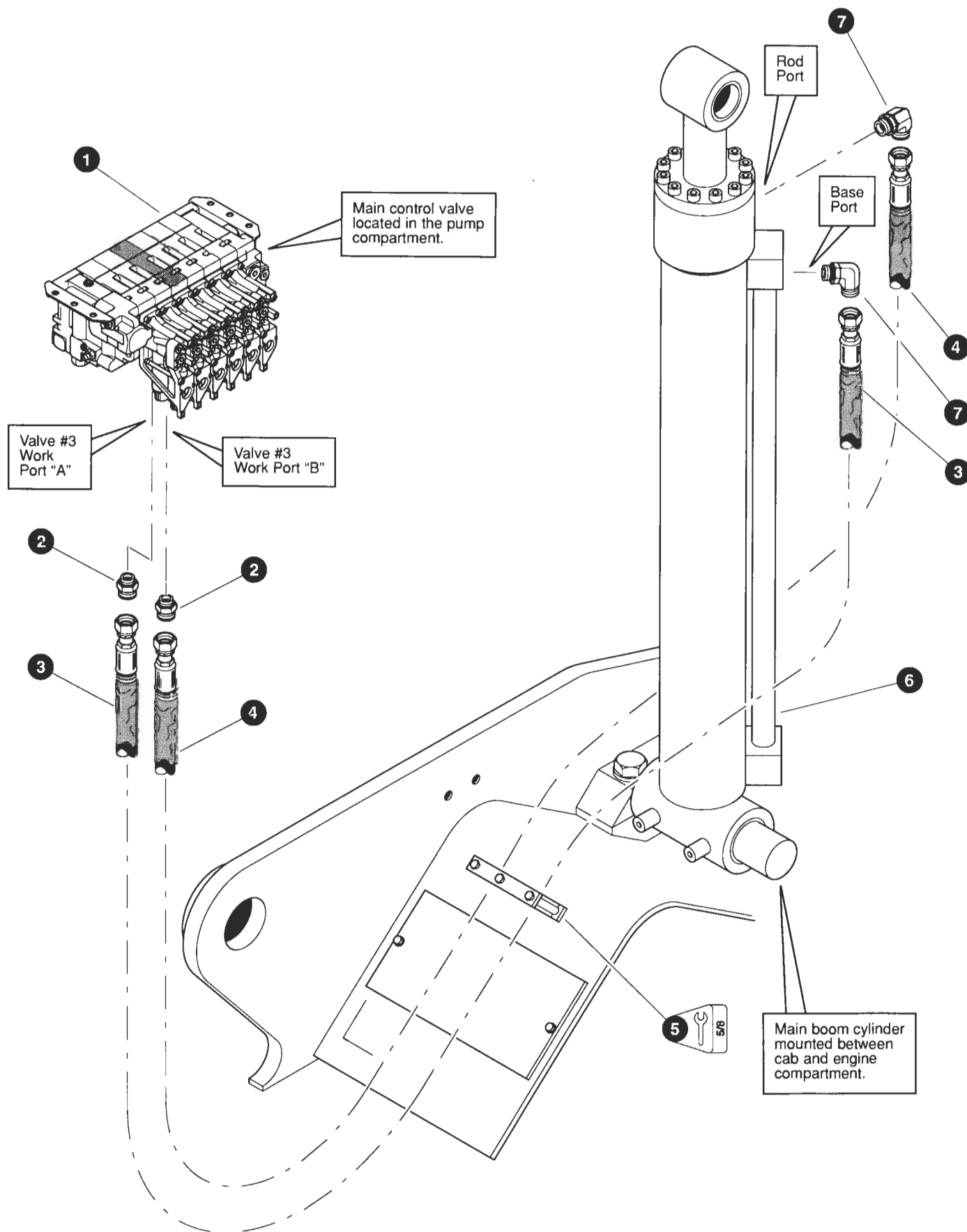
(Stick Boom Tubelines To Grapple Bucket)

(Used on machines PDN# 045FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2
2	15268	1		HOSE ASSEMBLY - 4047-08-080S-0809 (Stick boom outer engine-side hoseline to grapple outer engine-side port)	
3	15268	1		HOSE ASSEMBLY - 4047-08-080S-0809 (Stick boom middle engine-side hoseline to grapple middle engine-side port)	
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 meters.



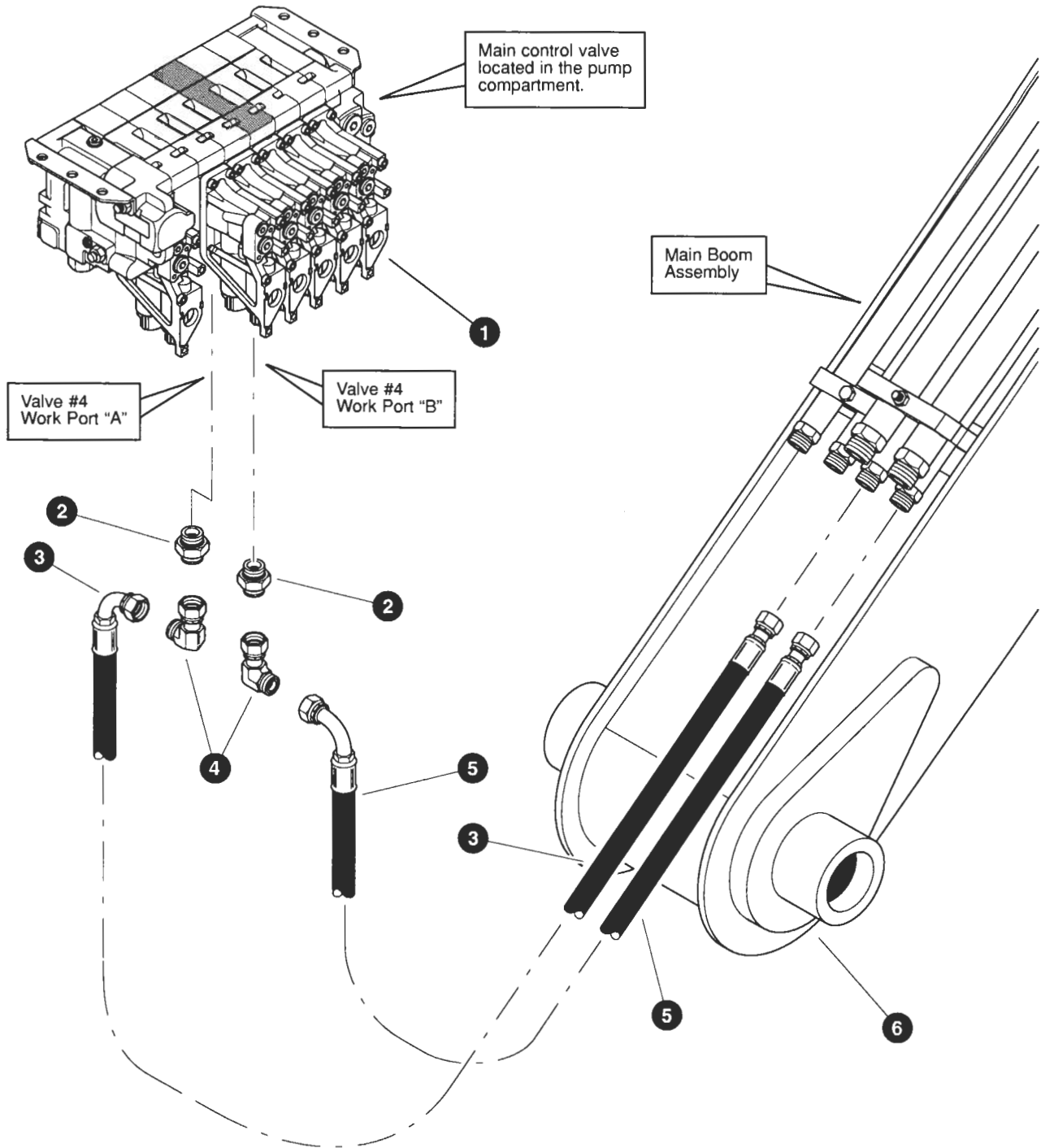
Parts 00165 12/15/97
18.75

WORK PORT LINES - MAIN BOOM FUNCTION

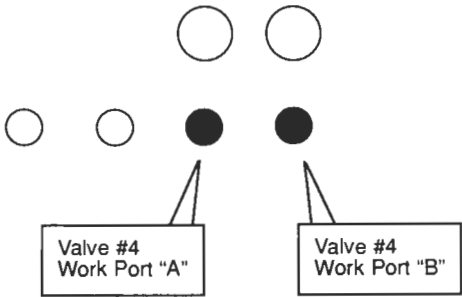
(Main Control Valve To Main Boom (Hoist) Cylinder)

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 (Main boom valve section #3 work port "A" to main boom cylinder base port)	
4	20116	1		HOSE ASSEMBLY - 4130.5-12-120S-120S (Main boom valve section #3 work port "B" to main boom cylinder rod port)	
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 tubeline connections
as viewed from rear of machine.



Parts 00168 12/15/97
25.00

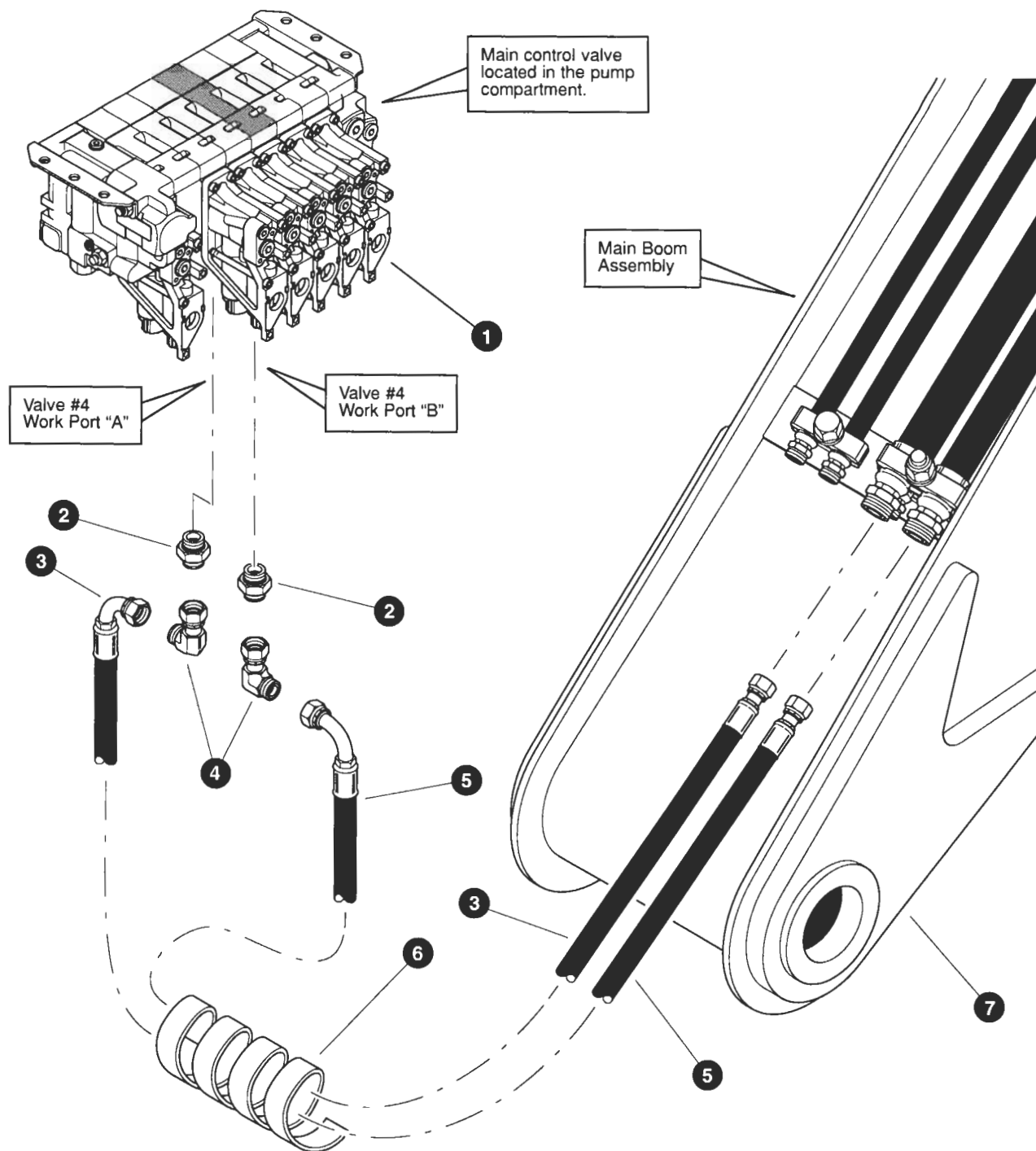
WORK PORT LINES - GRAPPLE ROTATE FUNCTION

(Main Control Valve To Main Boom Tubelines)

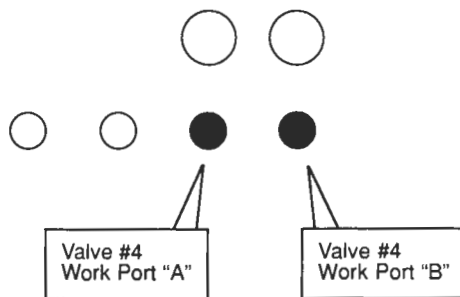
(Used on machines PDN# 044FWD and below)

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 (Grapple rotate valve section #4 work port "A" to main boom lower outer cab-side tubeline)	
4	16297	2		ELBOW, 90° swivel - FF2098T-0808S	
5	20118	1		HOSE ASSEMBLY - 4067-08-080S-0809 (Grapple rotate valve section #4 work port "B" to main boom lower middle cab-side tubeline)	
6	REF.	1	✓	MAIN BOOM ASSEMBLY	H.1.2

✓ See referenced page for component or assembly breakdown.



Main boom hose line connections
as viewed from rear of machine.



Parts 00538 04/07/98
25.00

WORK PORT LINES - GRAPPLE ROTATE FUNCTION

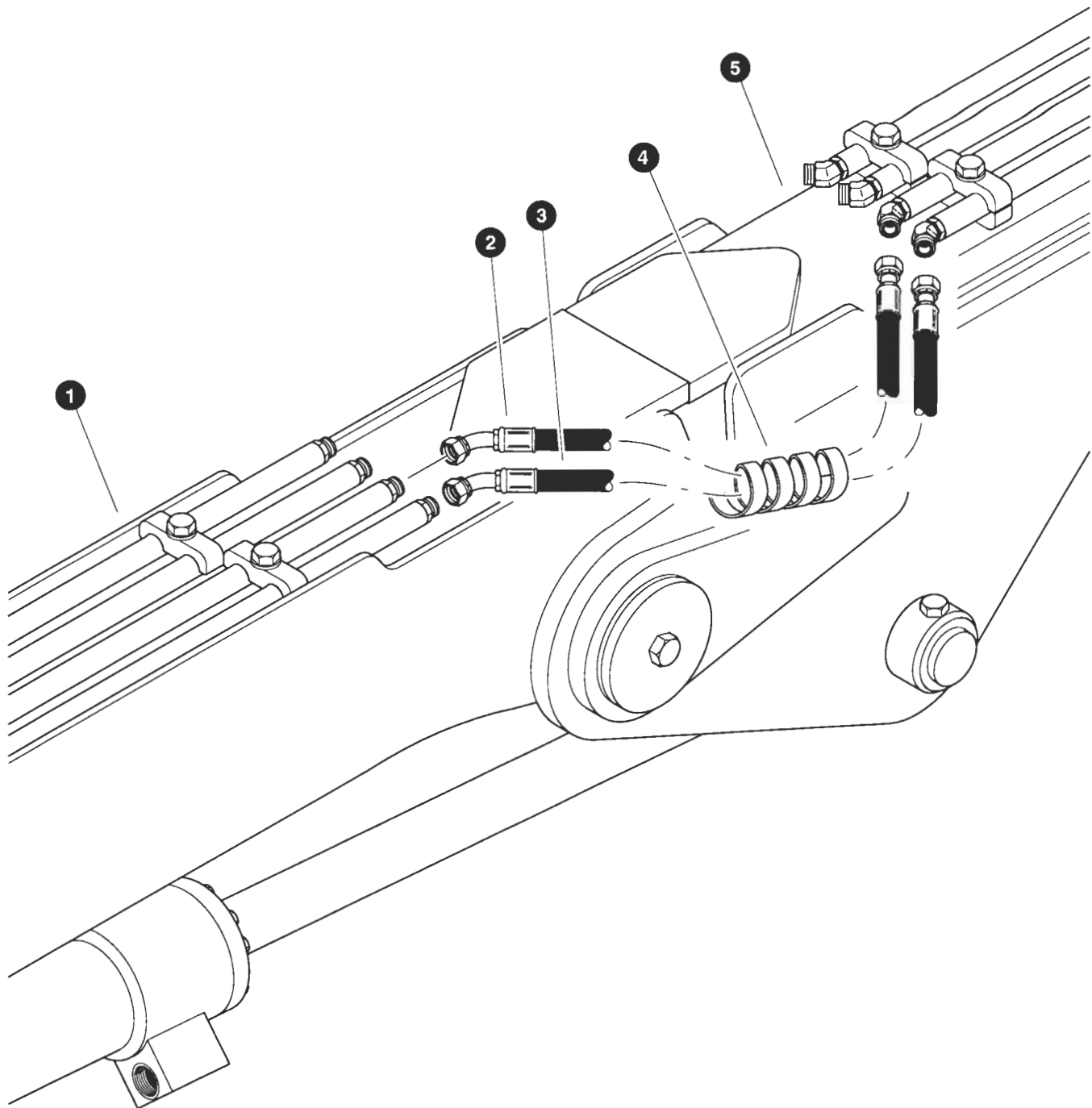
(Main Control Valve To Main Boom Tubelines)

(Used on machines PDN# 045FWD and above)

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 (Grapple rotate valve section #4 work port "A" to main boom lower outer cab-side hoseline)	
4	16297	2		ELBOW, 90° swivel - FF2098T-0808S	
5	20118	1		HOSE ASSEMBLY - 4067-08-080S-0809 (Grapple rotate valve section #4 work port "B" to main boom lower middle cab-side hoseline)	
6	20457	AR	⌘	PROTECTOR, spiral hose wrap - 3-1/2"	
7	REF.	1	✓	MAIN BOOM ASSEMBLY	H.1.2

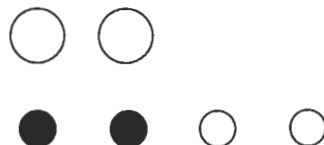
✓ See referenced page for component or assembly breakdown.

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



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

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



Valve #4
Work Port "B"

Valve #4
Work Port "A"



Valve #4
Work Port "A"

Valve #4
Work Port "B"

Parts 00169 12/15/97
25.00

WORK PORT LINES - GRAPPLE ROTATE FUNCTION

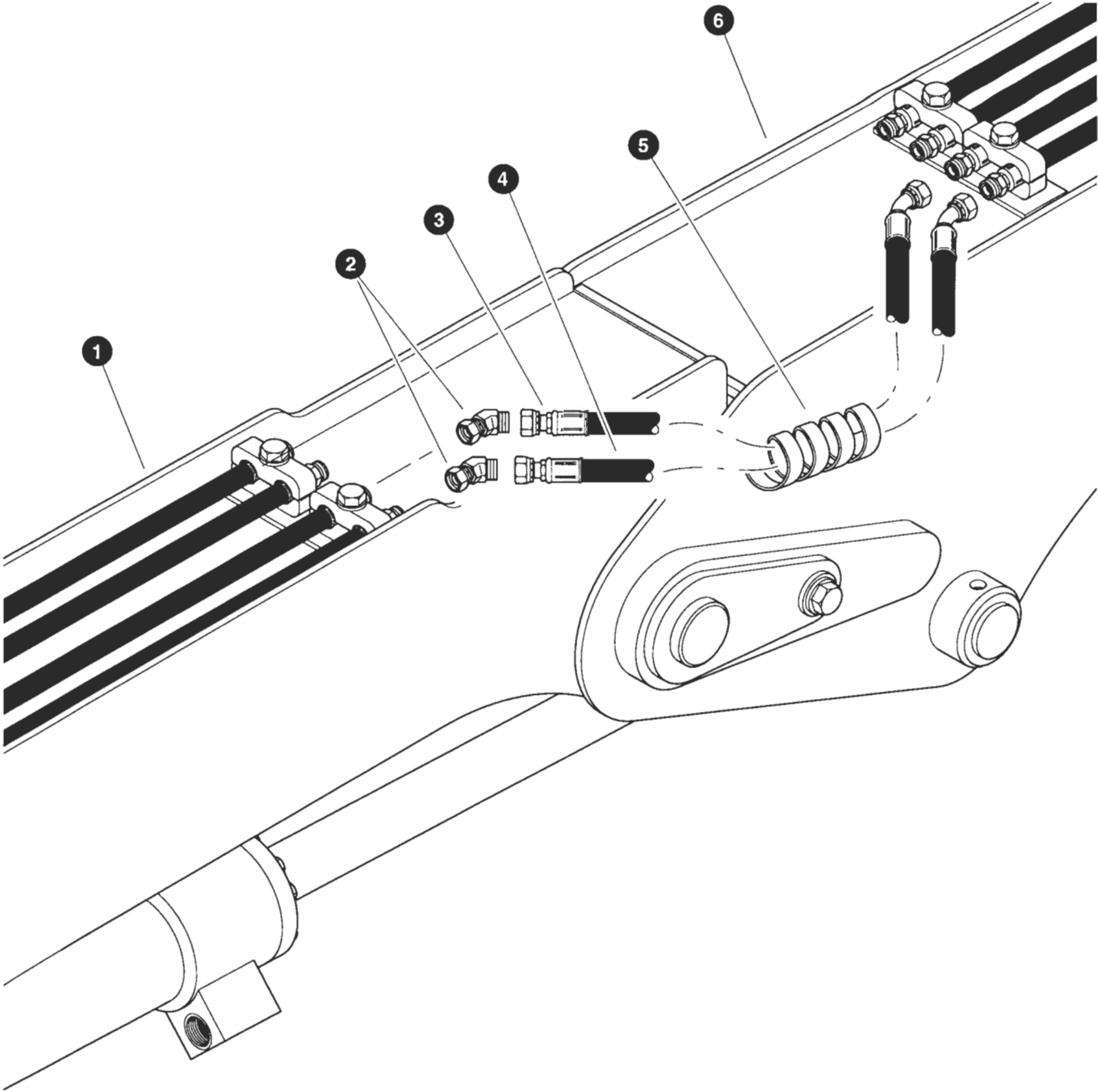
(Main Boom Tubelines To Stick Boom Tubelines)

(Used on machines PDN# 044FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN BOOM ASSEMBLY	H.2.2
2	20113	1		HOSE ASSEMBLY - 4047-08-080S-0804 (Main boom lower middle cab-side tubeline to stick boom middle cab-side tubeline)	
3	20112	1		HOSE ASSEMBLY - 4045.5-08-080S-0804 (Main boom lower outer cab-side tubeline to stick boom outer cab-side tubeline)	
4	19677	AR	⌘	PROTECTOR, spiral hose wrap - 1-1/4"	
5	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2

✓ See referenced page for component or assembly breakdown.

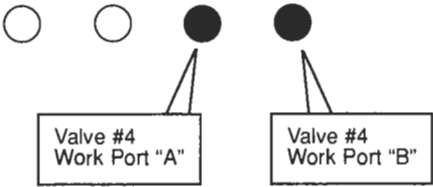
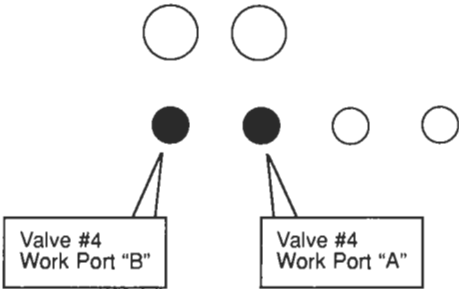
⌘ Bulk material - order length required in feet or meters.



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

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

Parts 00539 04/07/98
25.00



WORK PORT LINES - GRAPPLE ROTATE FUNCTION

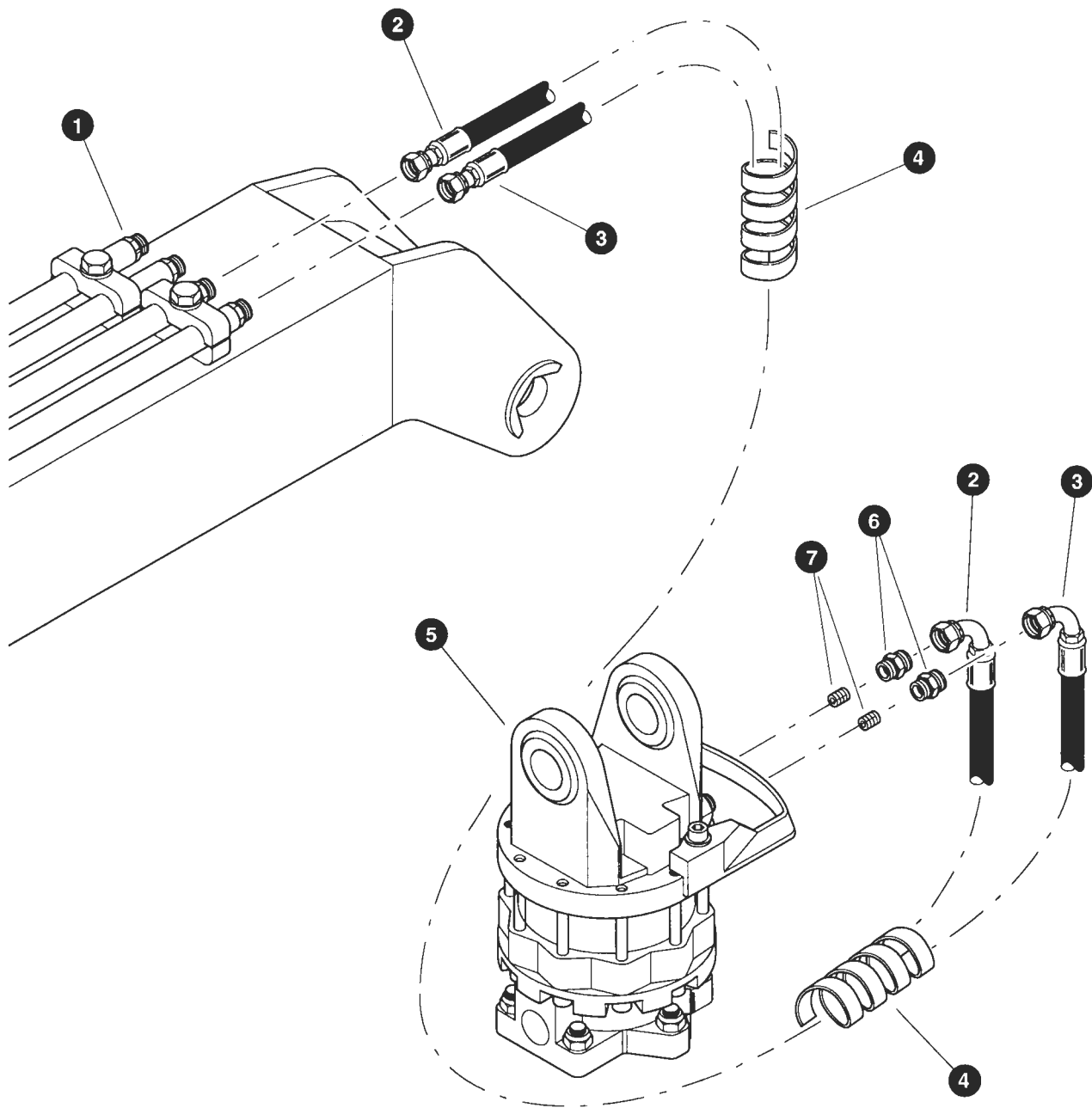
(Main Boom Tubelines To Stick Boom Tubelines)

(Used on machines PDN# 045FWD and above)

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 (Main boom lower middle cab-side hoseline to stick boom middle cab-side hoseline)	
4	20112	1		HOSE ASSEMBLY - 4045.5-08-080S-0804 (Main boom lower outer cab-side hoseline to stick boom outer cab-side hoseline)	
5	19677	AR	⌘	PROTECTOR, spiral hose wrap - 1-1/4"	
6	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2

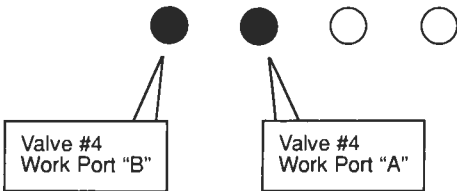
✓ See referenced page for component or assembly breakdown.

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



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

Parts 00344 12/15/97
25.00



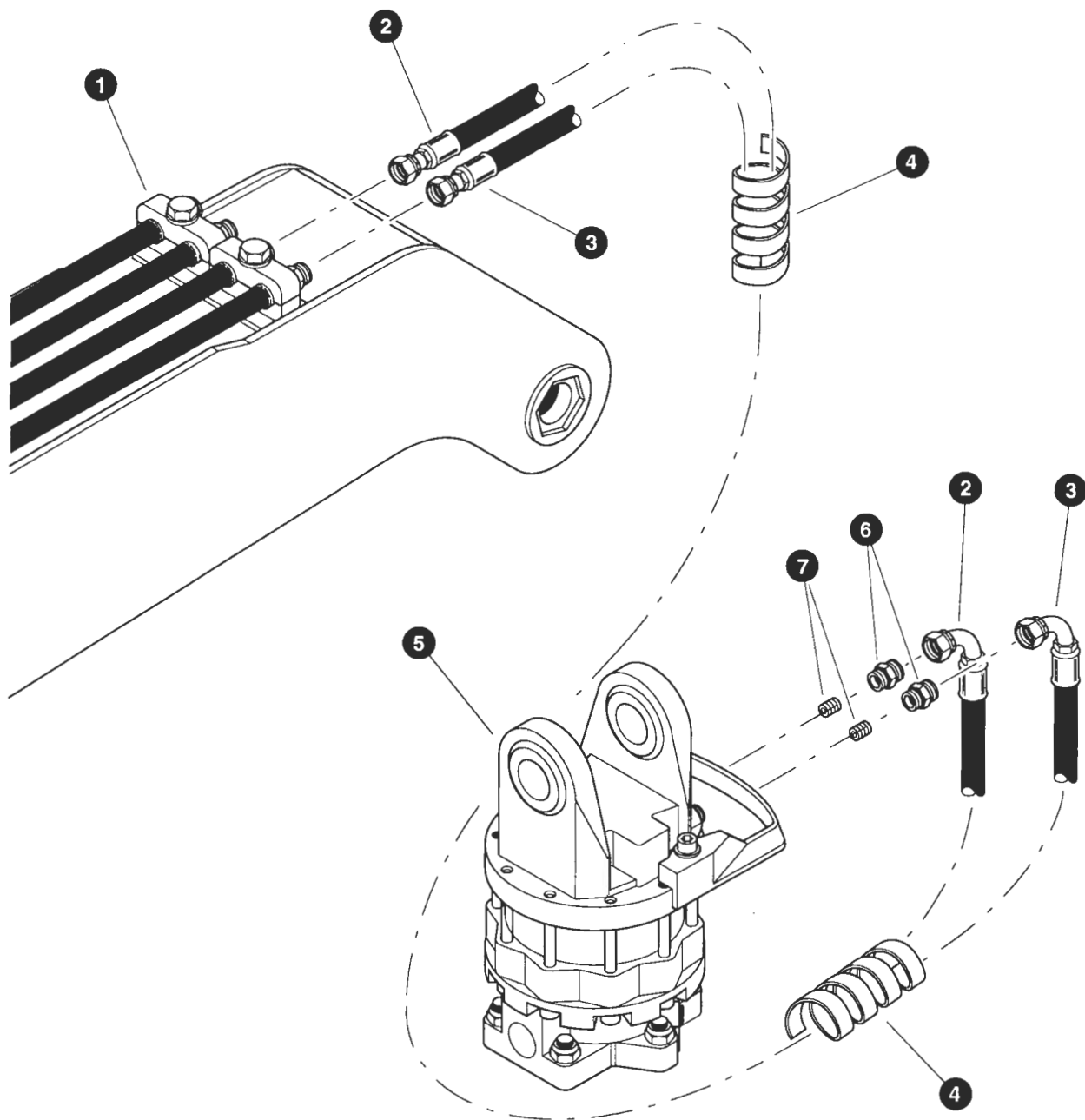
WORK PORT LINES - GRAPPLE ROTATE FUNCTION

(Stick Boom Tubelines To Grapple Bucket)

(Used on machines PDN# 044FWD and below)

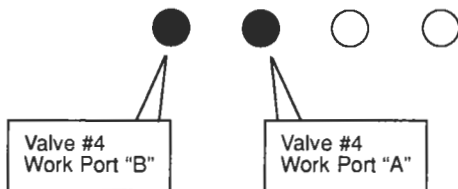
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2
2	15268	1		HOSE ASSEMBLY - 4047-08-080S-0809 (Stick boom outer engine-side tubeline to grapple outer engine-side port)	
3	15268	1		HOSE ASSEMBLY - 4047-08-080S-0809 (Stick boom middle engine-side tubeline to grapple middle engine-side port)	
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 meters.
- Kit or Assembly - includes all items indented underneath.



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



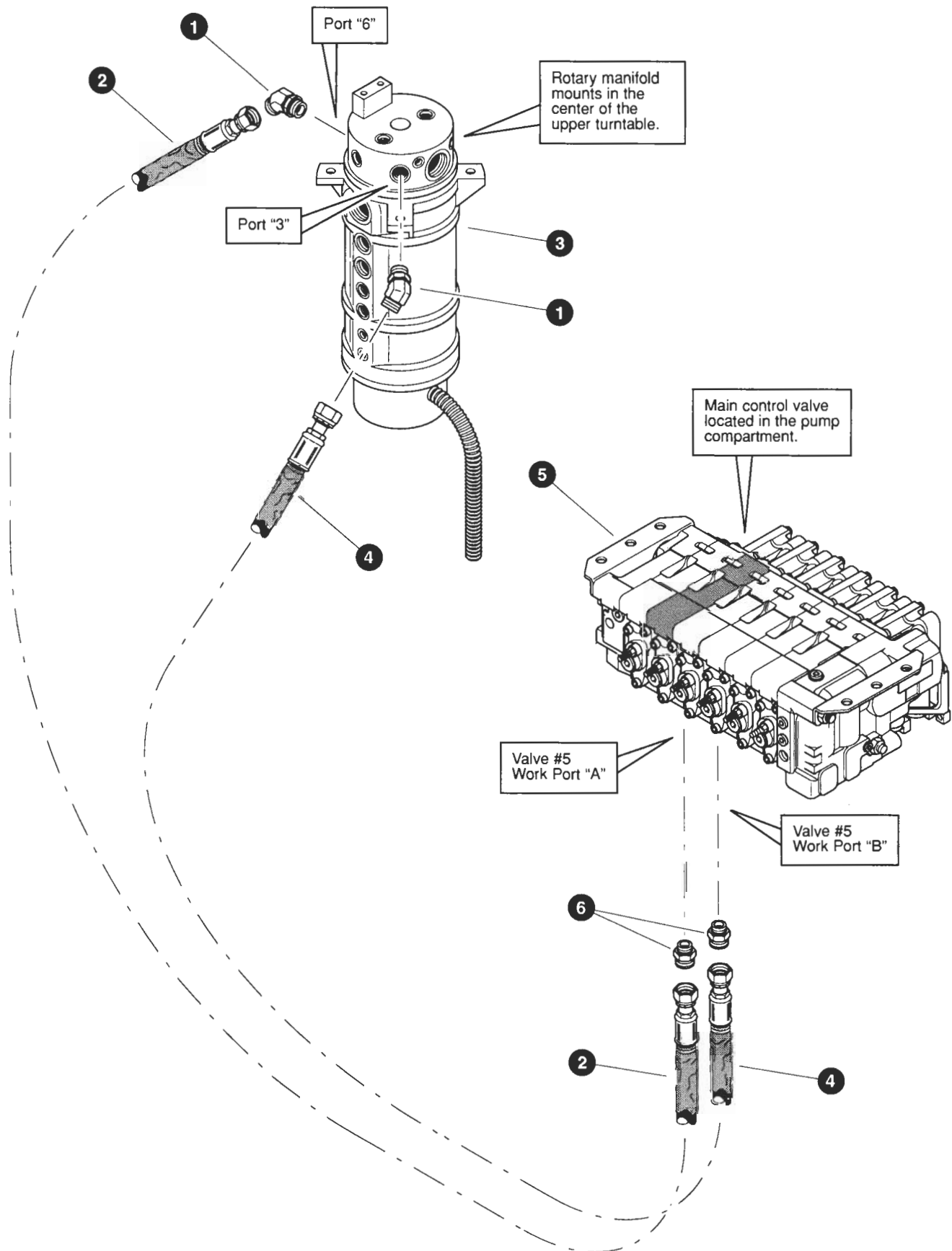
WORK PORT LINES - GRAPPLE ROTATE FUNCTION

(Stick Boom Tubelines To Grapple Bucket)

(Used on machines PDN# 045FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2
2	15268	1		HOSE ASSEMBLY - 4047-08-080S-0809 (Stick boom outer engine-side hoseline to grapple outer engine-side port)	
3	15268	1		HOSE ASSEMBLY - 4047-08-080S-0809 (Stick boom middle engine-side hoseline to grapple middle engine-side port)	
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 meters.
- Kit or Assembly - includes all items indented underneath.

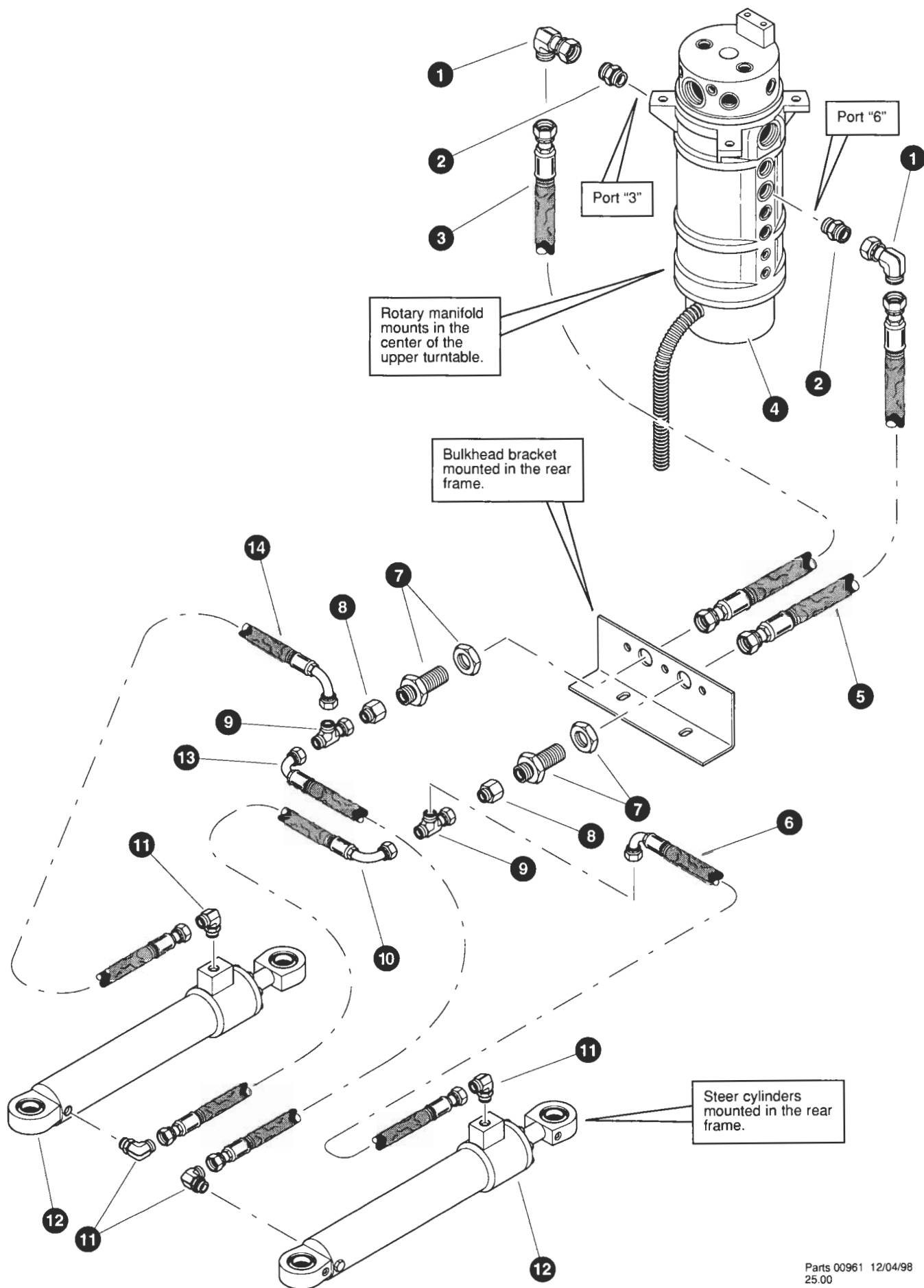


WORK PORT LINES - STEER FUNCTION

(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 (Steer valve section #5 work port "A" to upper rotary manifold port #6)(Used on machines PDN# 062FWD and above)	
	20120	1		HOSE ASSEMBLY - 4061-12-120S-120S (Steer valve section #5 work port "A" to upper rotary manifold port #6)(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 (Steer valve section #5 work port "B" to upper rotary manifold port #3)(Used on machines PDN# 062FWD and above)	
	20121	1		HOSE ASSEMBLY - 4051-12-120S-120S (Steer valve section #5 work port "B" to upper rotary manifold port #3)(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.



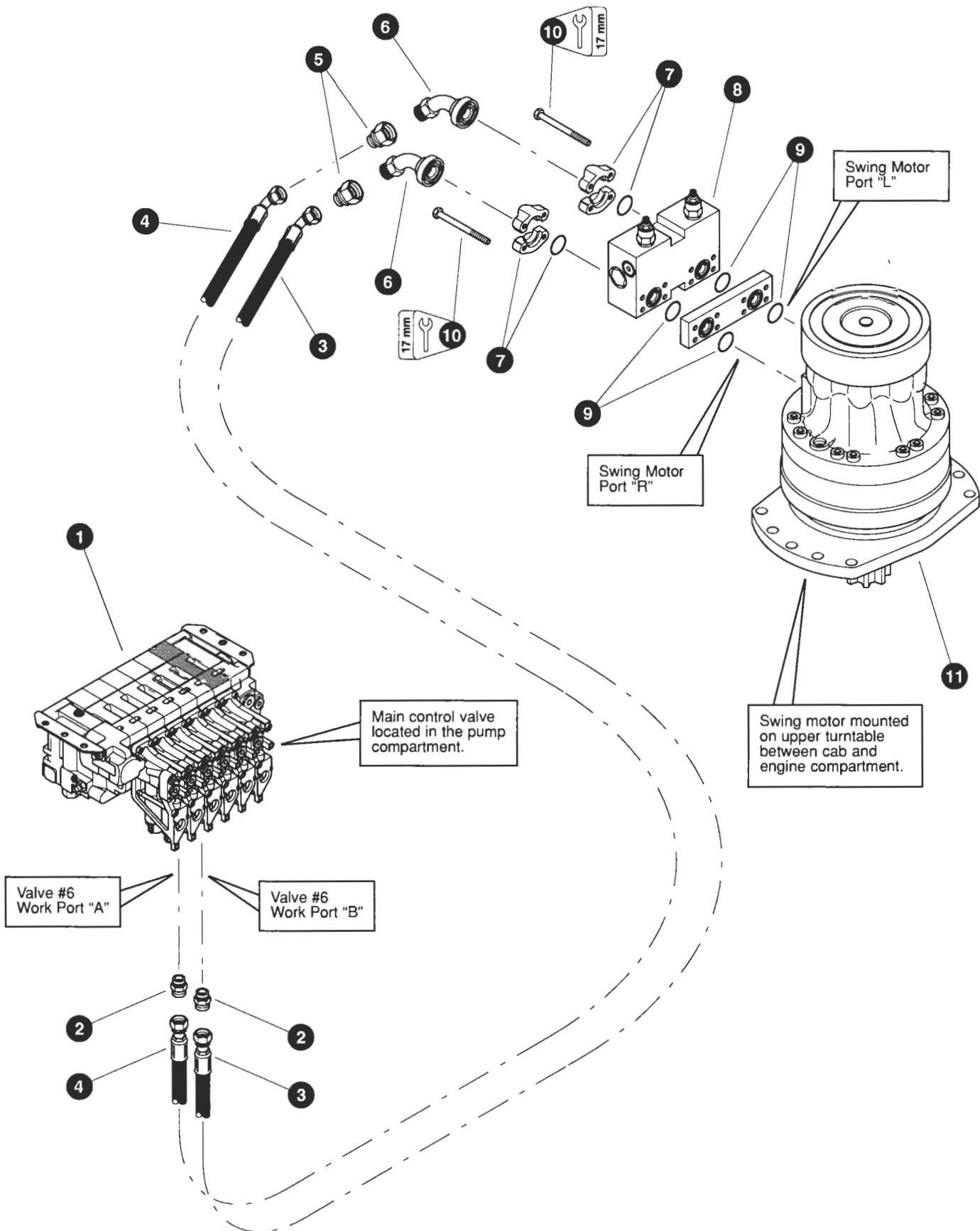
Parts 00961 12/04/98
25.00

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 (Lower rotary manifold port #3 to left bulkhead fitting)(Used on machines PDN# 062FWD and above)	
	20122	1		HOSE ASSEMBLY - 4105-12-120S-120S (Lower rotary manifold port #3 to left bulkhead fitting)(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 (Lower rotary manifold port #6 to right bulkhead fitting)(Used on machines PDN# 062FWD and above)	
	20123	1		HOSE ASSEMBLY - 4107-12-120S-120S (Lower rotary manifold port #6 to right bulkhead fitting)(Used on machines PDN# 061FWD and below)	
6	20124	1		HOSE ASSEMBLY - 4028-08-080S-0809-W (Right bulkhead tee to right steer cylinder rod port)	
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 (Right bulkhead tee to left steer cylinder base port)	
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 (Left bulkhead tee to right steer cylinder base port)	
14	20124	1		HOSE ASSEMBLY - 4028-08-080S-0809-W (Left bulkhead tee to left steer cylinder rod port)	

✓ See referenced page for component or assembly breakdown.

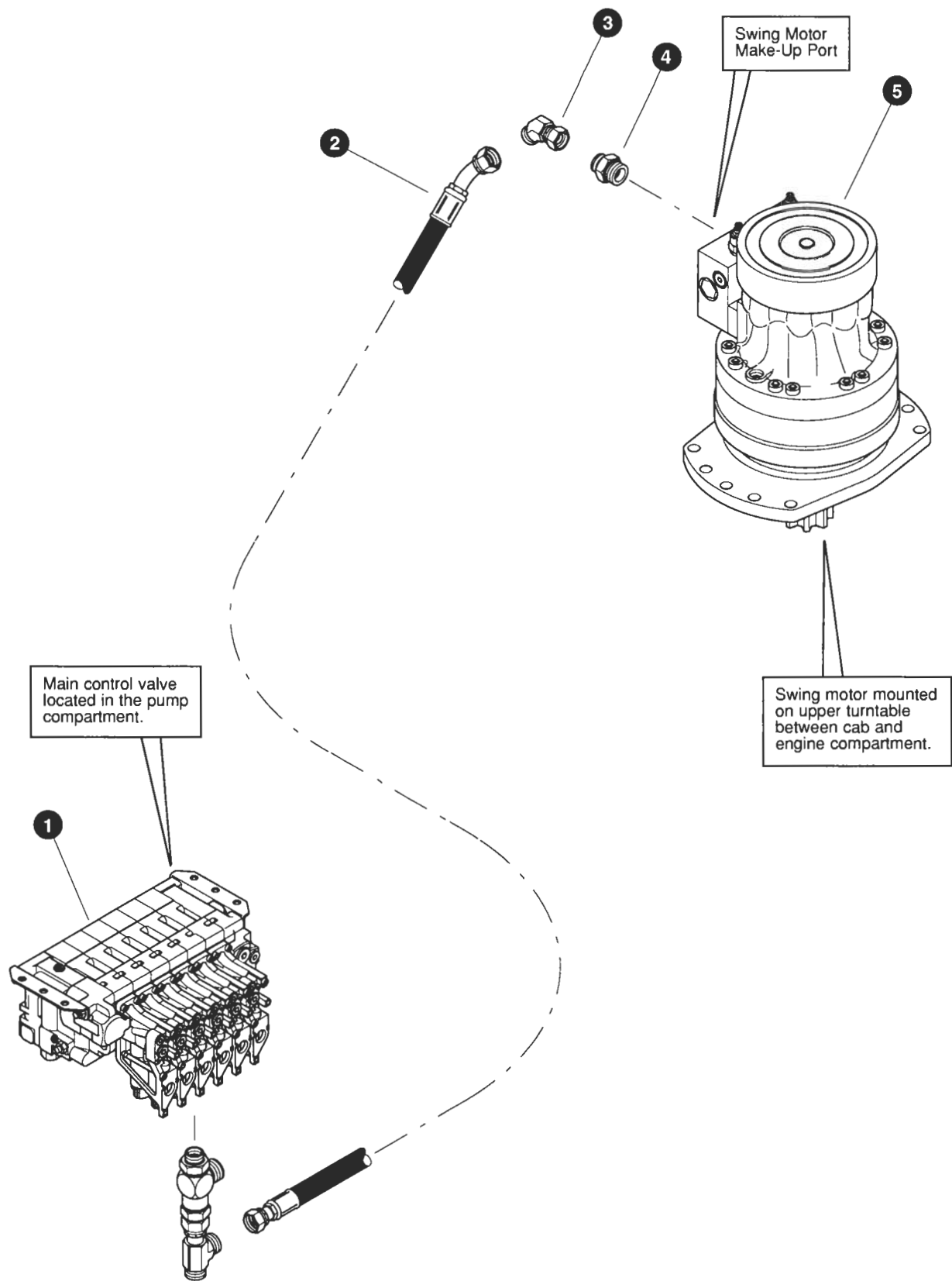


WORK PORT LINES - SWING FUNCTION

(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 (Swing valve section #6 work port "B" to swing motor port "R")	
4	20130	1		HOSE ASSEMBLY - 4056.5-08-080S-0804 (Swing valve section #6 work port "A" to swing motor port "L")	
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.

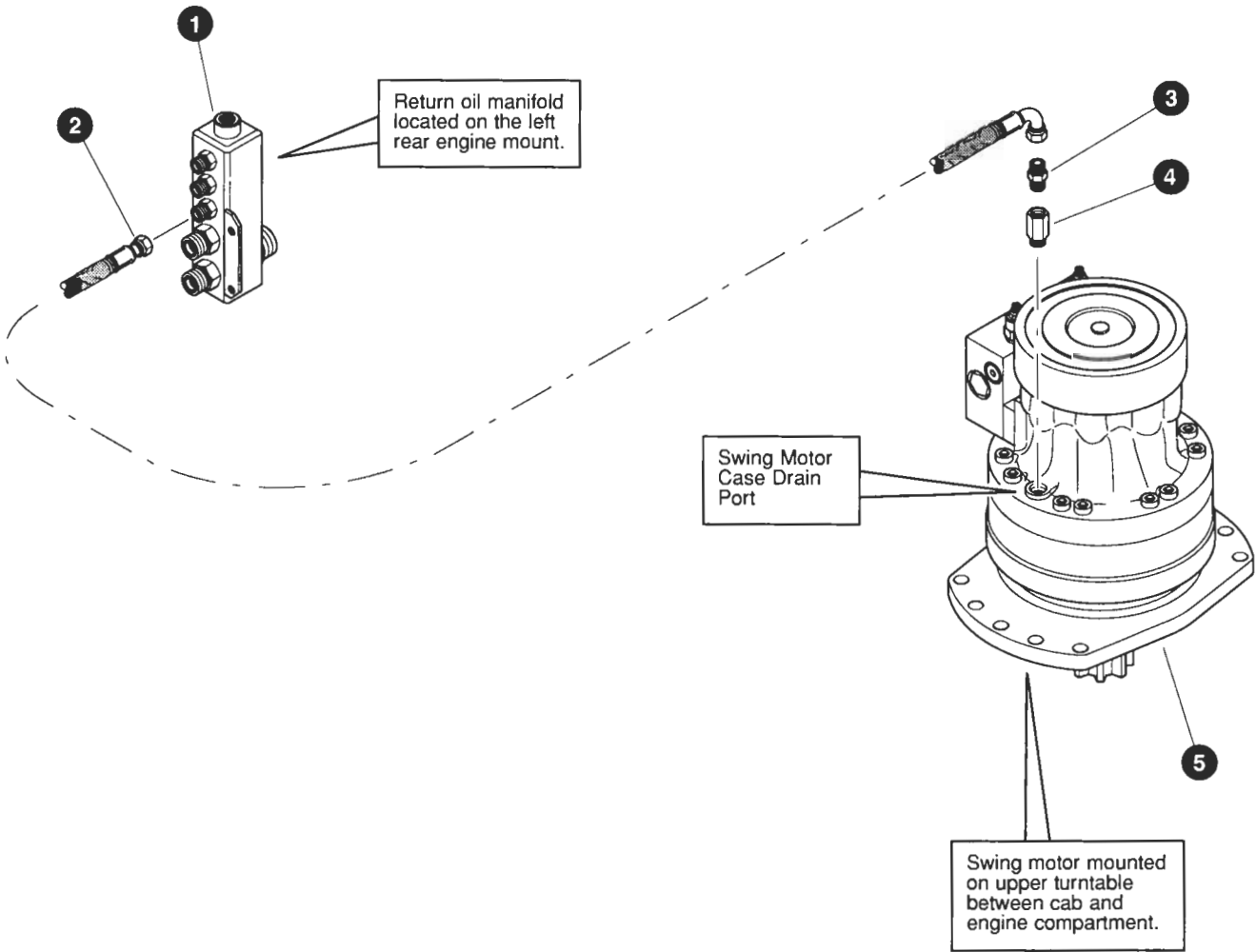


WORK PORT LINES - SWING FUNCTION MAKE-UP LINE

(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 (Main control valve swing motor make-up oil port tee to swing motor anti-cavitation valve)	
4	15152	1		CONNECTOR, straight - FF1852T-1212S	
5	REF.	1	✓	SWING MOTOR	C.2.4

✓ See referenced page for component or assembly breakdown.

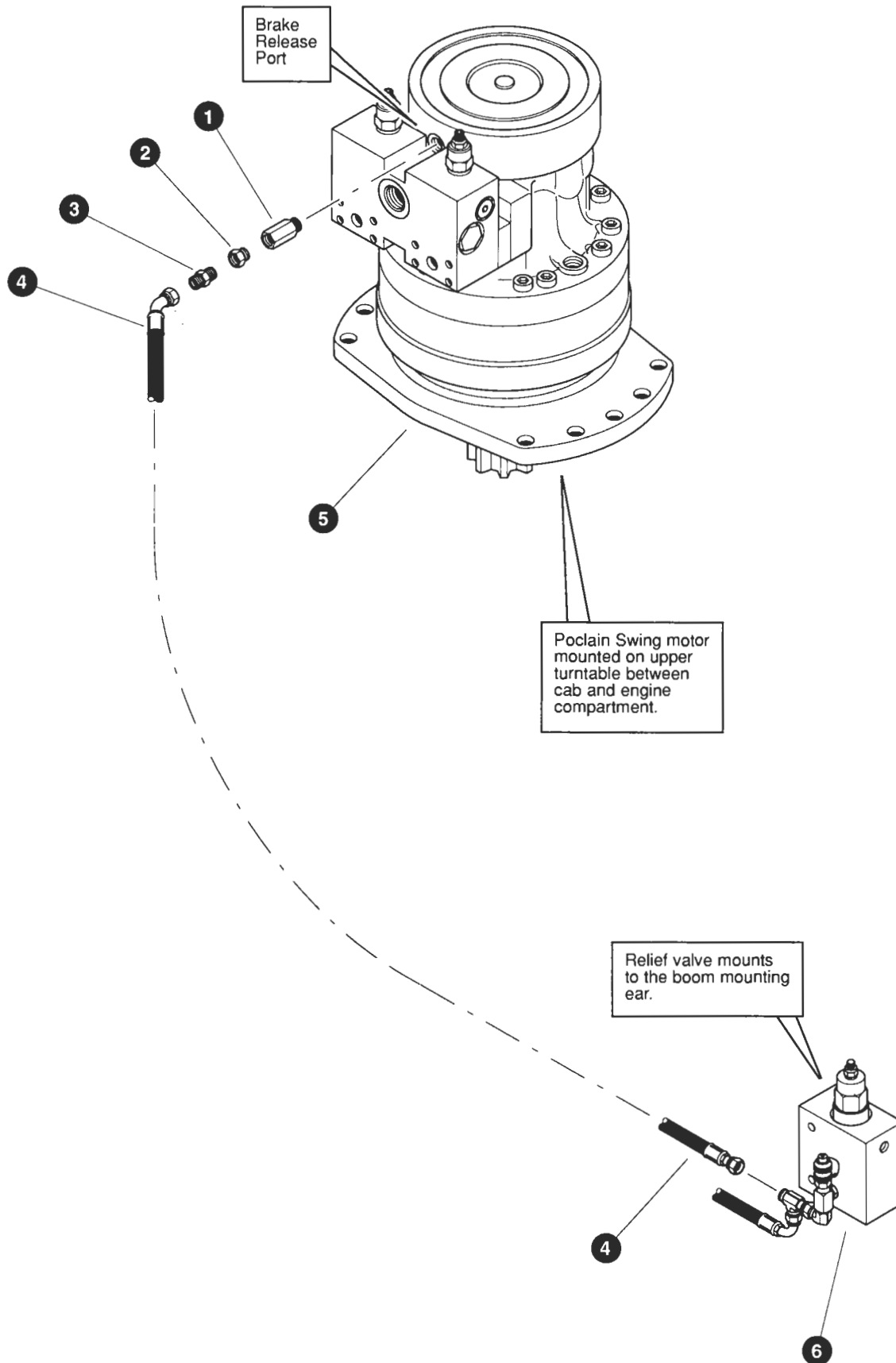


WORK PORT LINES - SWING MOTOR CASE DRAIN LINE

(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 (Swing motor case drain port to return oil manifold)	
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.

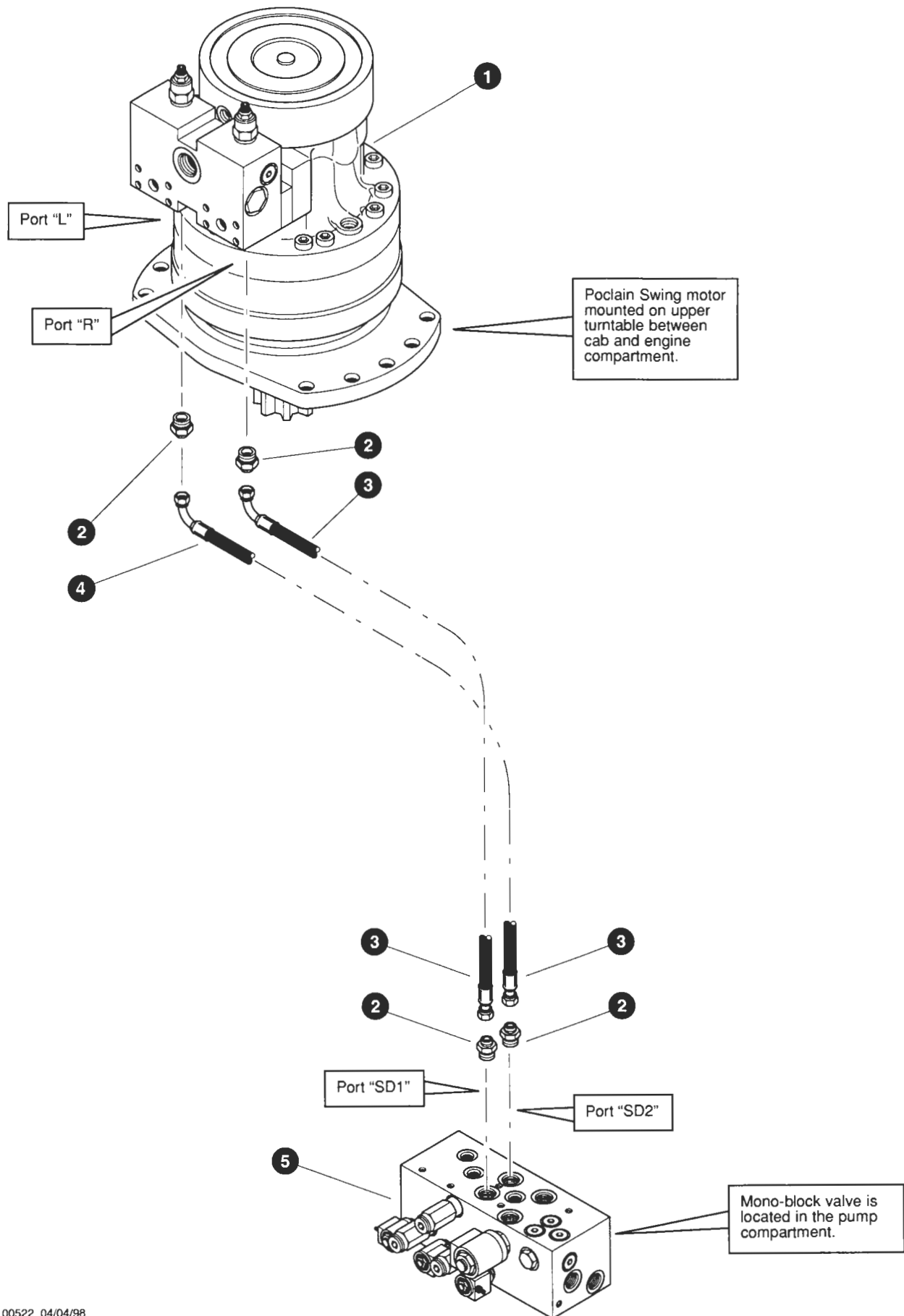


SWING MOTOR BRAKE RELEASE LINE

(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 (Relief valve tee to swing motor brake release port)	
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

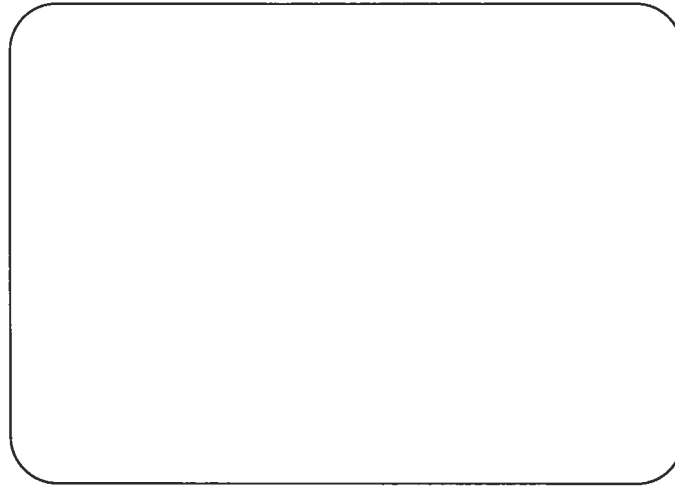
SWING DETENT LINES

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

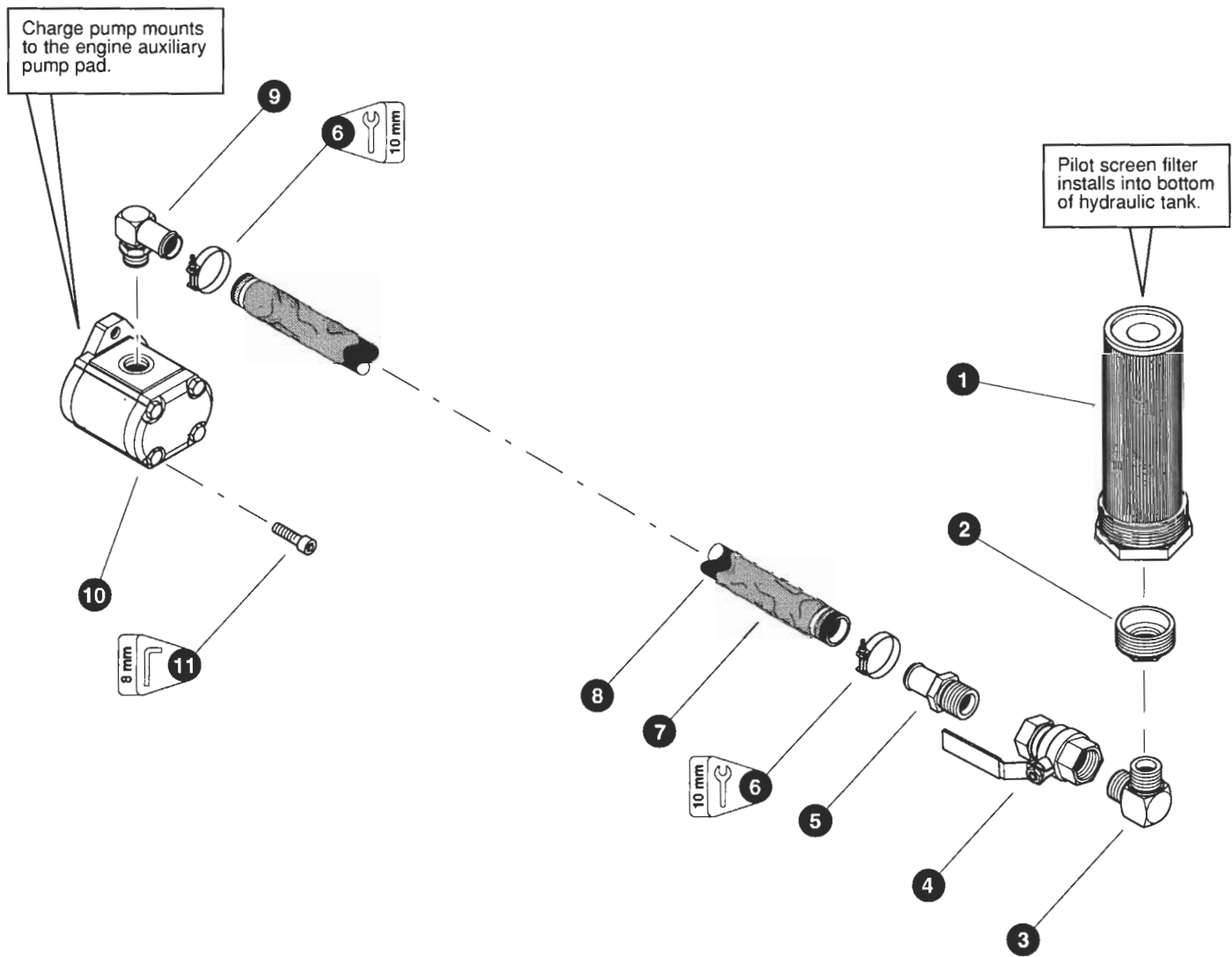
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	SWING MOTOR	C.2.4
2	15504	4		CONNECTOR, straight - FF1852T-0408S	
3	20128	1		HOSE ASSEMBLY - 2076-04-040S-0409 (Mono-block port "SD1" to swing motor detent port "R")	
4	20001	1		HOSE ASSEMBLY - 2082-04-040S-0409 (Mono-block port "SD2" to swing motor detent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

✓ See referenced page for component or assembly breakdown.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



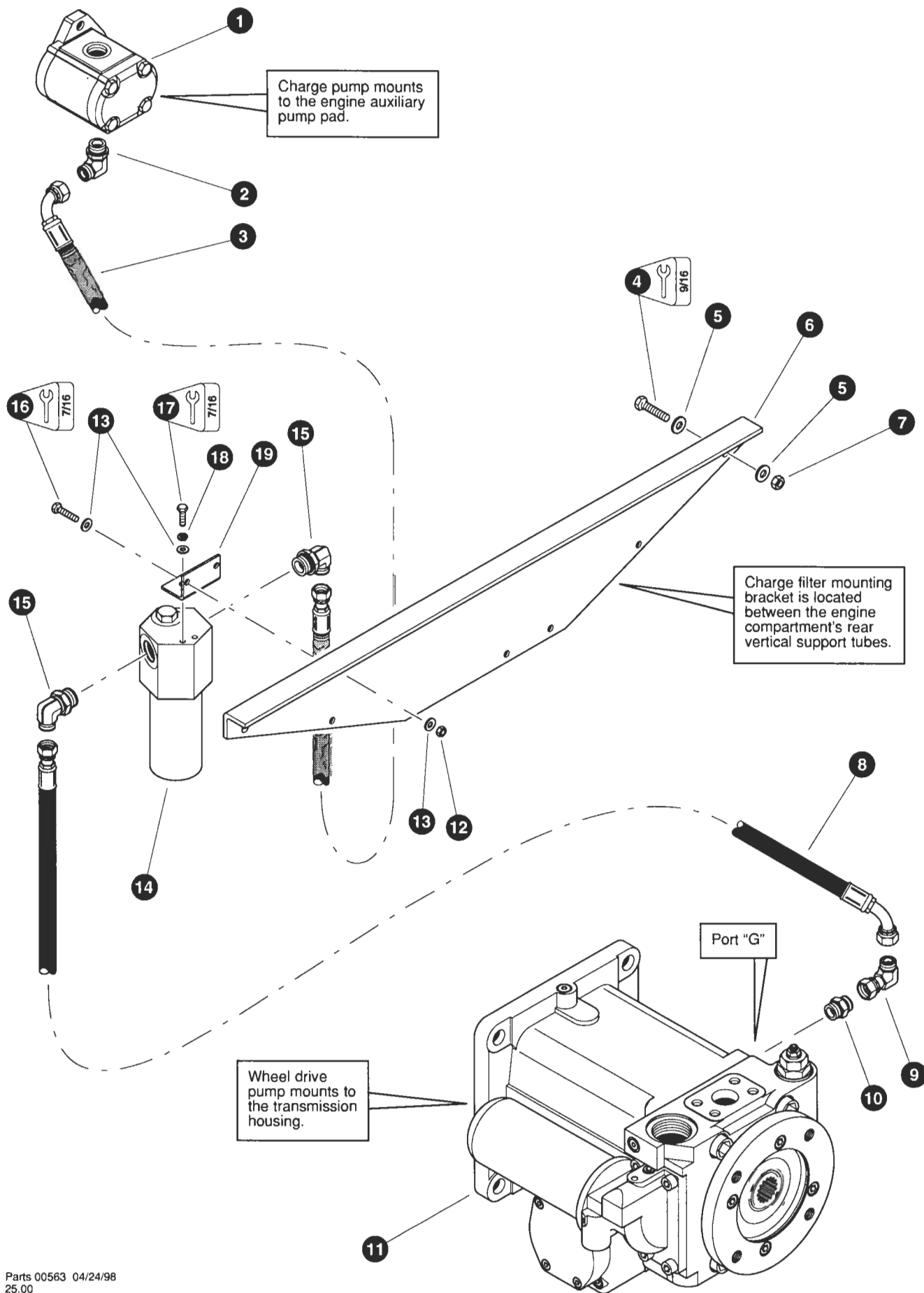
Hydraulic Circuits - Wheel Drive



WHEEL DRIVE CHARGE PUMP SUCTION LINE

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15326	1		FILTER, screen - 100 mesh suction	
2	16760	1		BUSHING, black reducer - 2" x 1"	
3	17159	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 (Used with Cummins Engines)	
	18945	1		PUMP, charge (Used with Caterpillar Engines)	
11	16116	2		BOLT, allen head - 10mm x 30mm	

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

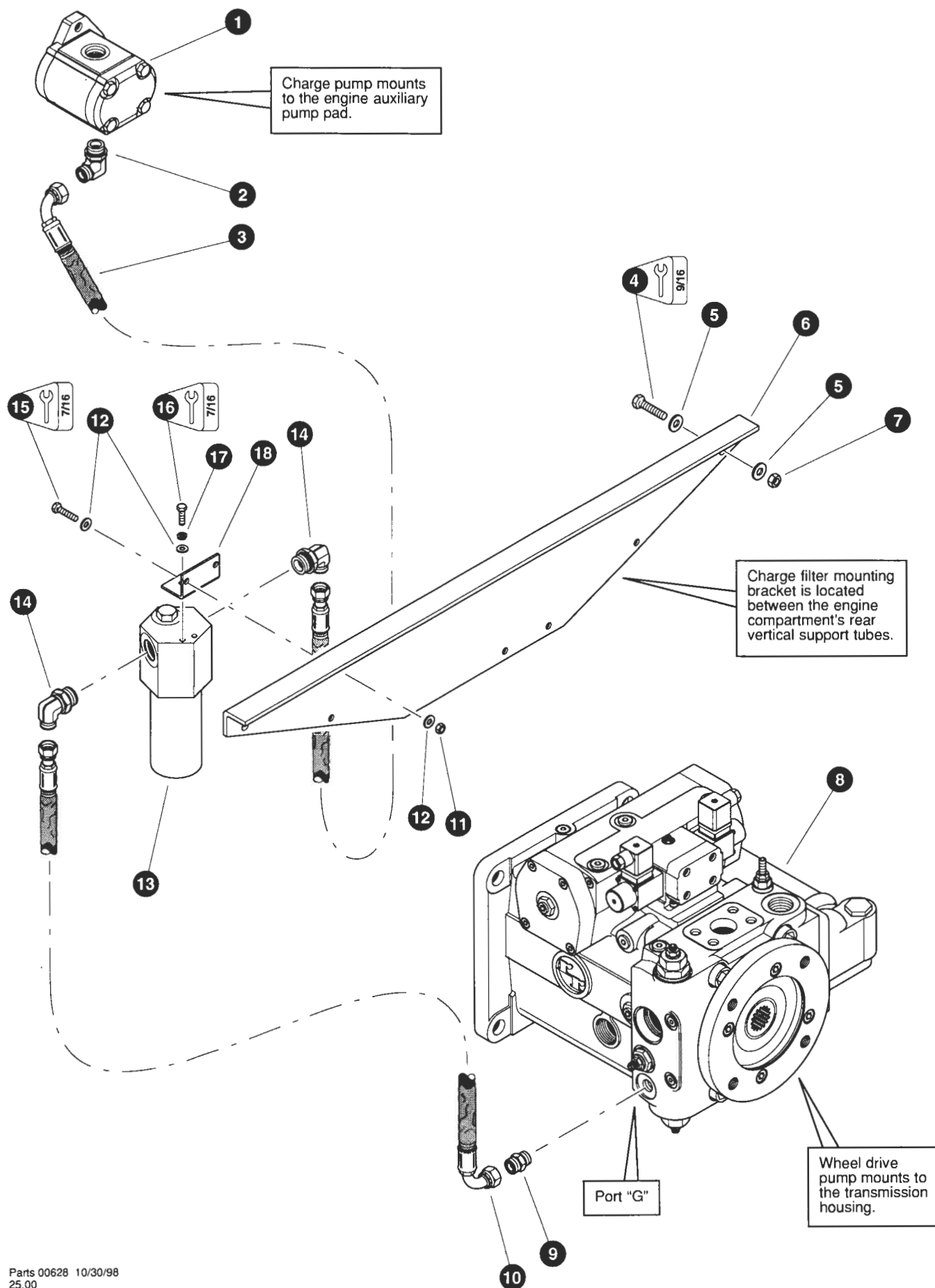


Parts 00563 04/24/98
25.00

WHEEL DRIVE CHARGE PRESSURE LINES**(From Charge Pump To Wheel Drive Pump)***(Used on machines PDN# 053FWD and below)*

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 (Charge pump pressure outlet to charge filter inlet)	
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	20937	1		HOSE ASSEMBLY - 4041-08-080S-0804 (Charge filter outlet to wheel drive pump port "G")	
9	16297	1		ELBOW, 90° swivel - FF2098T-0808S	
10	15115	1		CONNECTOR, straight - FF1852T-0810S	
11	REF.	1		WHEEL DRIVE PUMP	C.3.2
12	10811	8		NUT, lock - 1/4"	
13	10757	6		WASHER, SAE flat - 1/4"	
14	15374	1	□	FILTER, charge	
	15375	1		ELEMENT, filter - charge	
15	15372	2		ELBOW, 90° - FF1868T-0812S	
16	15576	2		BOLT - 1/4" X 1"	
17	15604	2		BOLT - 1/4" X 3/4"	
18	10756	2		WASHER, lock - 1/4"	
19	18456	1		BRACKET, charge filter mounting angle	

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



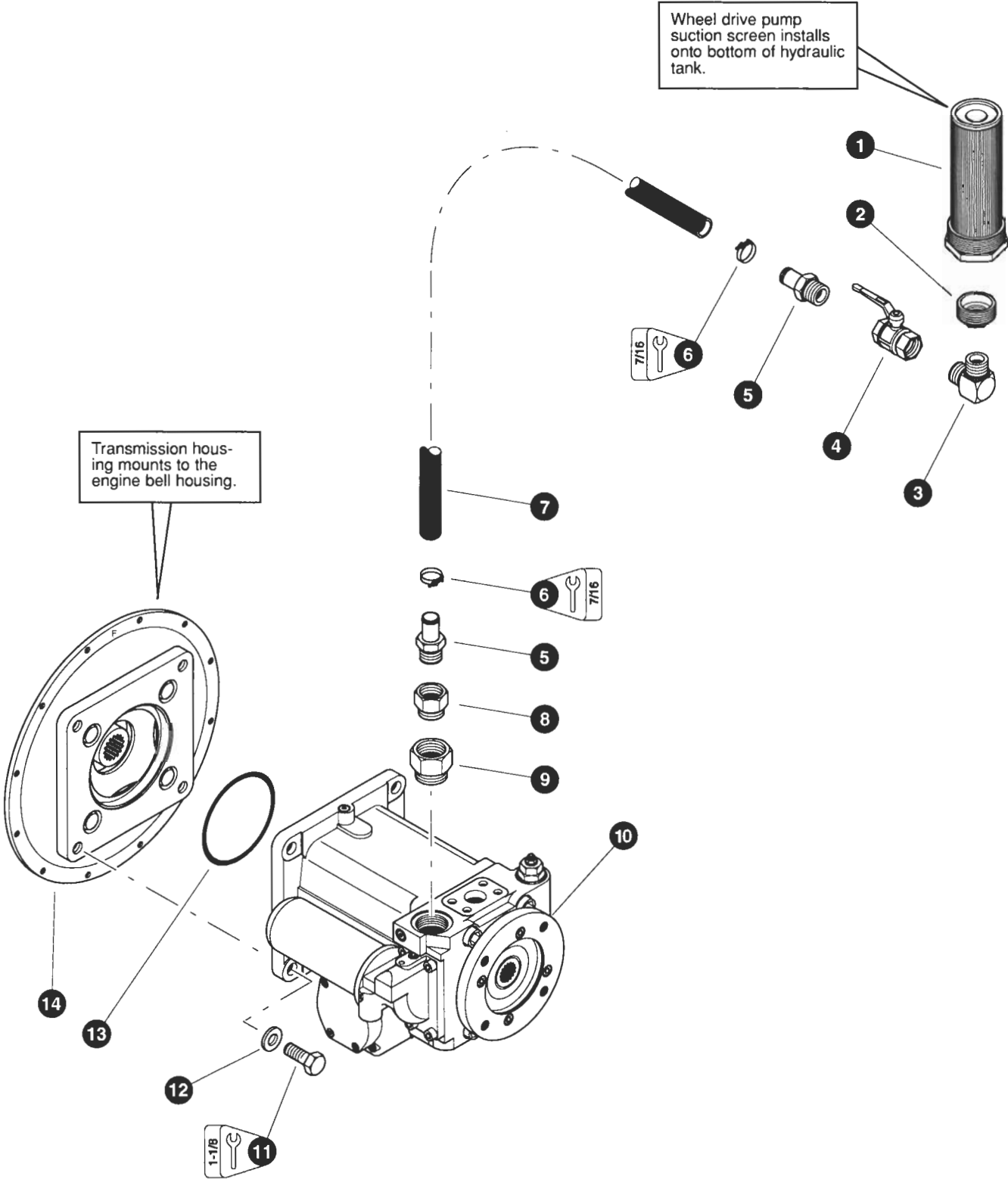
WHEEL DRIVE CHARGE PRESSURE LINES

(From Charge Pump To Wheel Drive Pump)

(Used on machines PDN# 054FWD and above)

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 (Charge pump pressure outlet to charge filter inlet)	
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 (Charge filter outlet to wheel drive pump port "G")	
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	

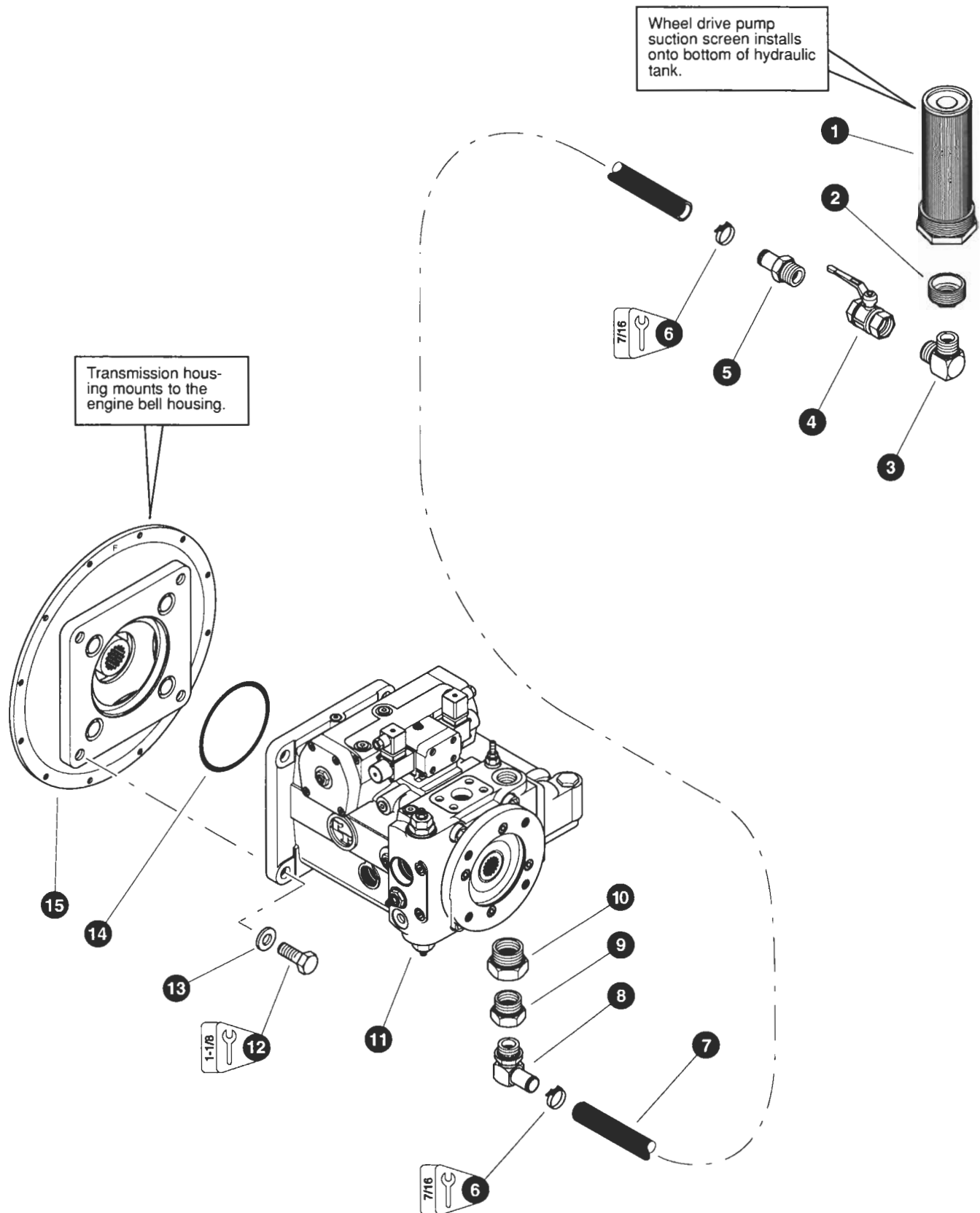
- ✓ See referenced page for component or assembly breakdown.
 □ Kit or Assembly - includes all items indented underneath.



WHEEL DRIVE PUMP SUCTION LINE*(Used on machines PDN# 053FWD and below)*

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	2		NIPPLE, king - 4404-16-16	
6	19578	2		CLAMP, strap band - 1-3/4"	
7	20142	1		HOSE, suction - 1017-16	
8	17015	1		BUSHING, reducer - 6410-20-16	
9	17053	1		BUSHING, reducer - 6405-24-20	
10	REF.	1	✓	WHEEL DRIVE PUMP	C.3.2
11	15549	4		BOLT - 3/4" x 2"	
12	15550	4		WASHER, SAE flat - 3/4"	
13	15442-2	1		O-RING	
14	REF.	1	✓	TRANSMISSION HOUSING	Varies

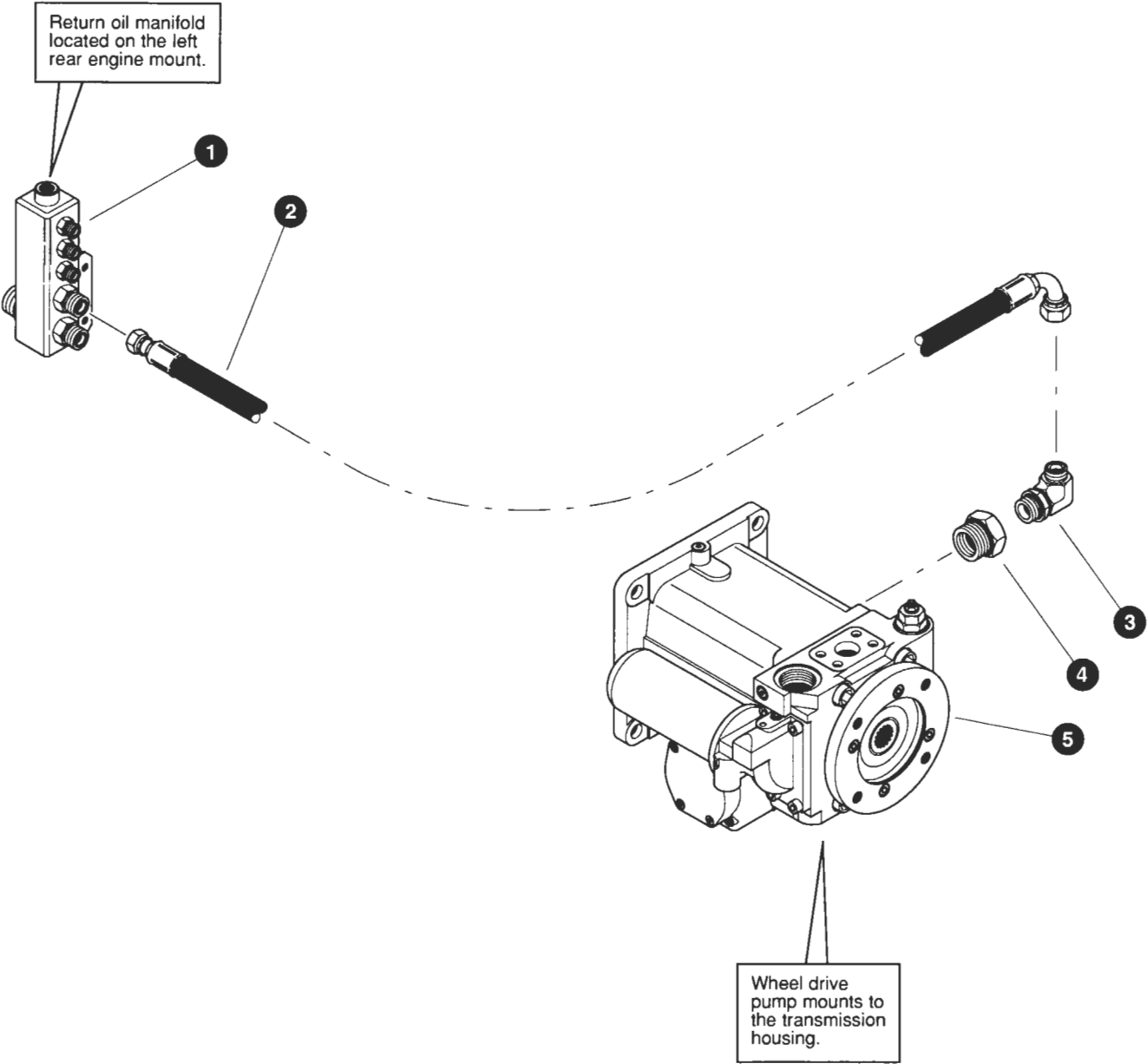
- ✓ See referenced page for component or assembly breakdown.
 □ Kit or Assembly - includes all items indented underneath.



WHEEL DRIVE PUMP SUCTION LINE*(Used on machines PDN# 054FWD and above)*

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 (Used on machines with Superior transmission housing, PDN# 071FWD and above)	
	15442-2	1		O-RING (Used on machines with Funk transmission housing, PDN# 070FWD and below)	
15	REF.	1	✓	TRANSMISSION HOUSING	Varies

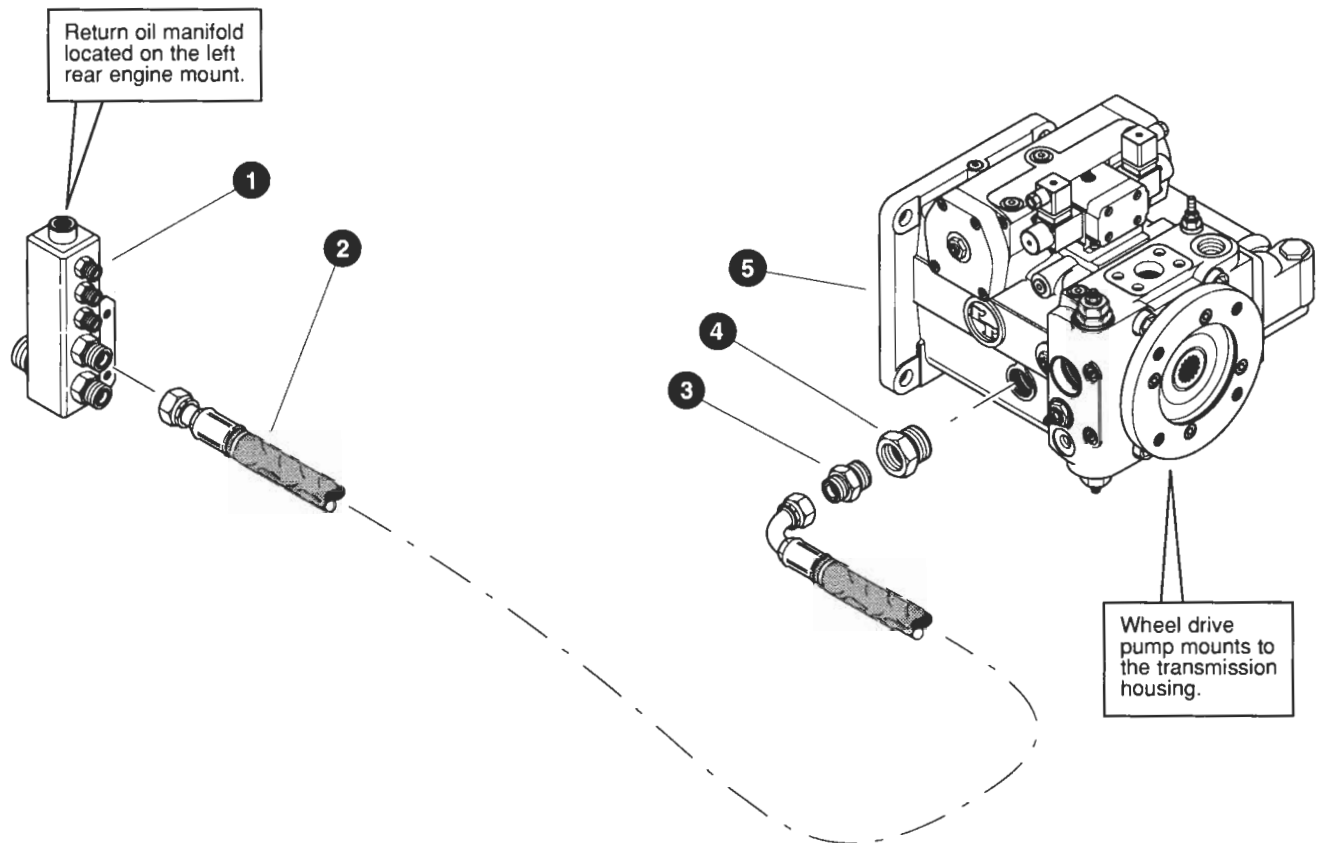
- ✓ See referenced page for component or assembly breakdown.
 □ Kit or Assembly - includes all items indented underneath.



WHEEL DRIVE PUMP CASE DRAIN LINE*(Used on machines PDN# 053FWD and below)*

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	17547	1		MANIFOLD, return oil	
2	20144	1		HOSE ASSEMBLY - 2036-12-120S-1209 (Wheel drive pump case drain port to return oil manifold)	
3	19128	1		ELBOW, 90° - FF1868T-1216S	
4	17015	1		BUSHING, reducer - 6410-20-16	
5	REF.	1	✓	WHEEL DRIVE PUMP	C.3.2

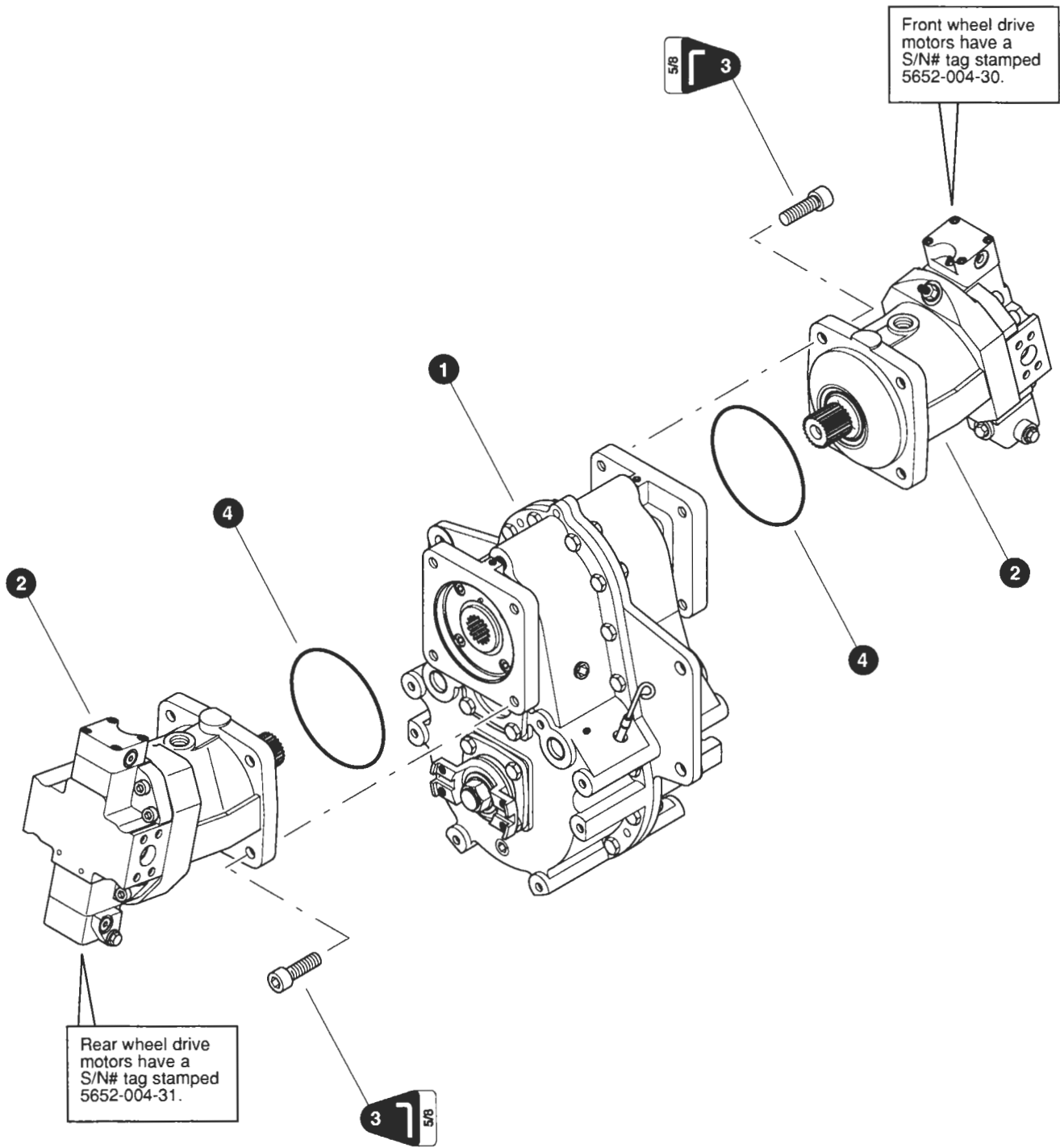
✓ See referenced page for component or assembly breakdown.



WHEEL DRIVE PUMP CASE DRAIN LINE*(Used on machines PDN# 054FWD and above)*

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	17547	1		MANIFOLD, return oil	
2	20144	1		HOSE ASSEMBLY - 2036-12-120S-1209 (Wheel drive pump case drain port to return oil manifold)	
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 - Funk Transfer Case)

(Used on machines PDN# 052FWD and below)

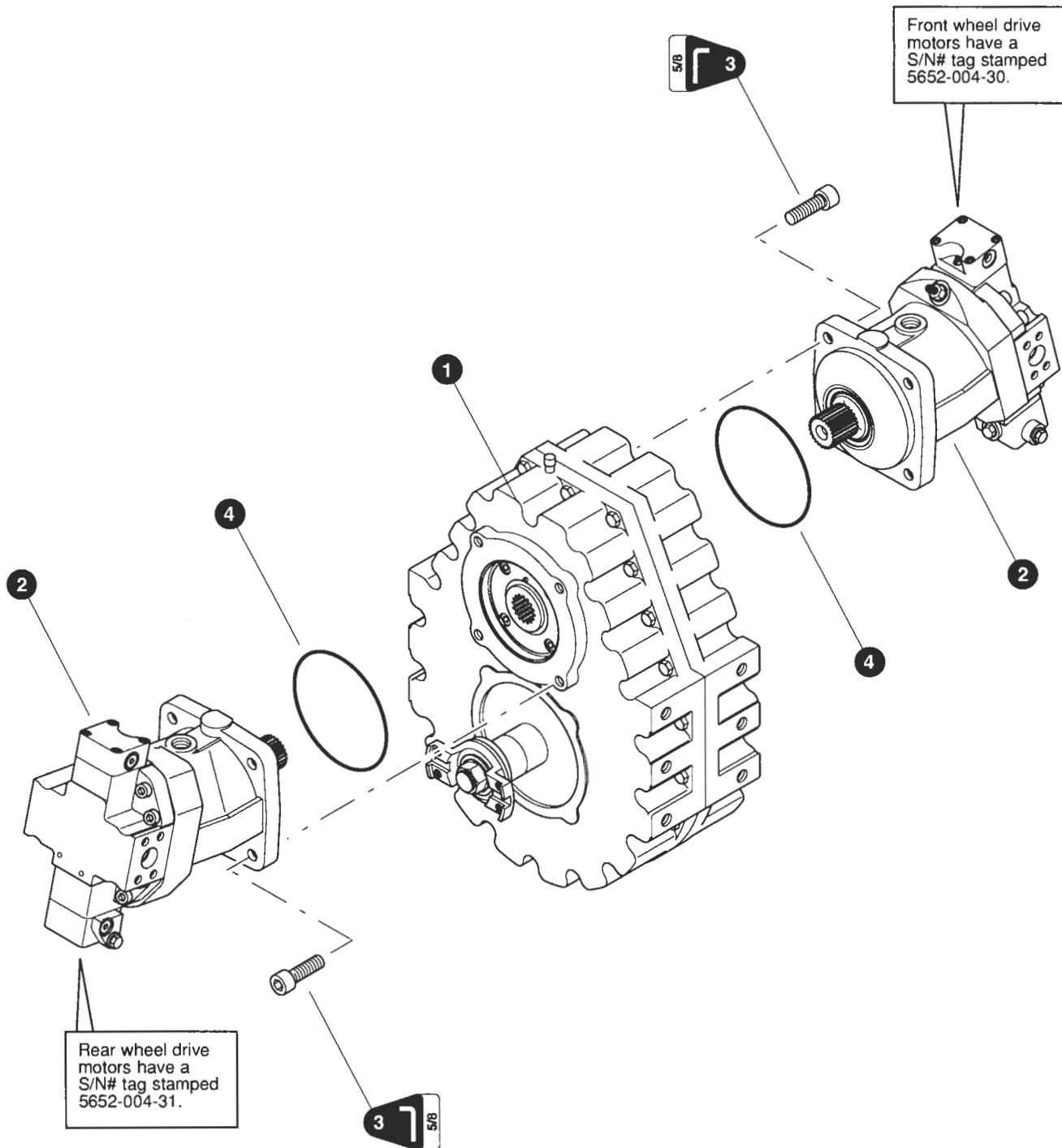
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	①	TRANSFER CASE	
2	REF.	2	✓	WHEEL DRIVE MOTOR	C.3.12
3	20683	8		BOLT, allen head - 3/4" x 2-1/2" (<i>Torque to 300 ft.lbs. (400 Nm)</i>) (See Note Below)	
4	20967	2		O-RING	

① Contact your TIMBCO dealer for additional information.

✓ See referenced page for component or assembly breakdown.

Note:

Use Loctite 242 (blue) during installation.



WHEEL DRIVE MOTOR INSTALLATION (Dual Mount - Superior Transfer Case)

(Used on machines PDN# 053FWD and above)

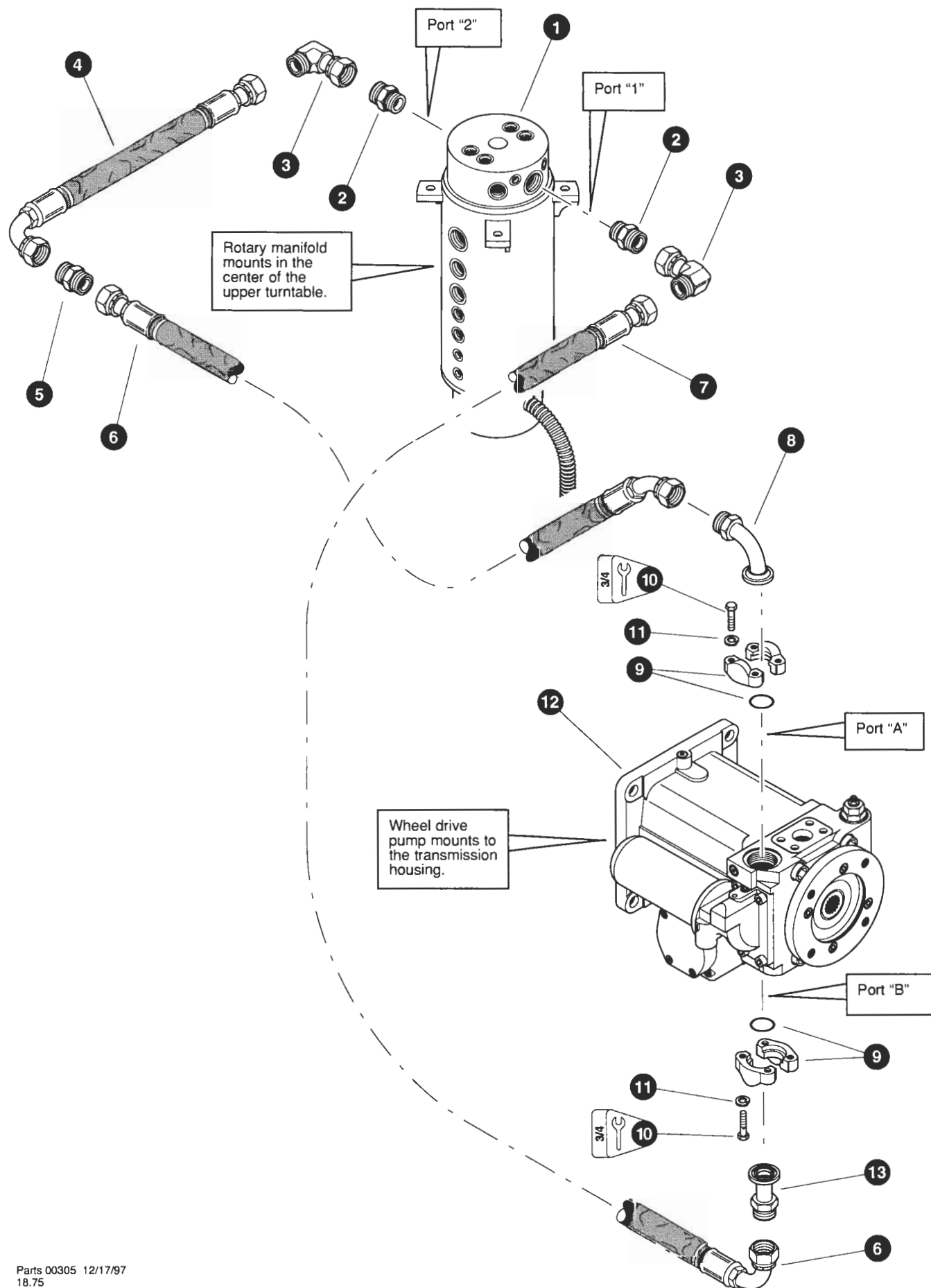
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	Ⓢ	TRANSFER CASE	
2	REF.	2	✓	WHEEL DRIVE MOTOR	C.3.12
3	20969	8		BOLT, allen head - 3/4" x 2-3/4" (<i>Torque to 300 ft.lbs. (400 Nm)</i>) (See Note Below)	
4	20967	2		O-RING	

Ⓢ Contact your TIMBCO dealer for additional information.

✓ See referenced page for component or assembly breakdown.

Note:

Use Loctite 242 (blue) during installation.



Parts 00305 12/17/97
18.75

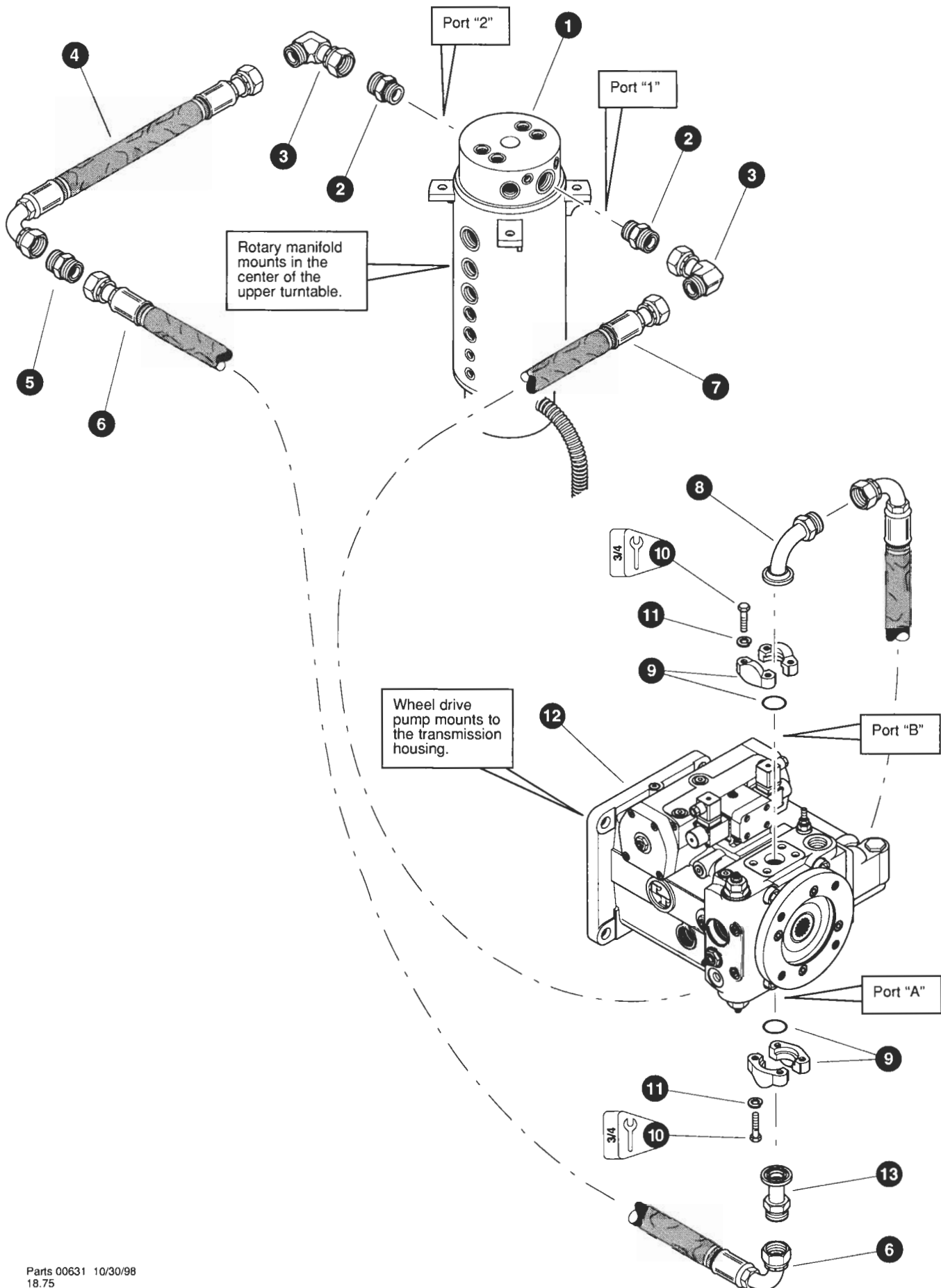
WHEEL DRIVE PUMP PRESSURE LINES

(Wheel Drive Pump To Upper Rotary Manifold Ports)

(Used on machines PDN# 053FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	15225	2		CONNECTOR, straight - FF1852T-1616S	
3	17682	2		ELBOW, 90° swivel - FF2098T-1616S	
4	20153	1		HOSE ASSEMBLY - 6013-16-160S-1609 (Driveline connector to rotary manifold upper port "2")	
5	15225	1		CONNECTOR, straight - FF1852T-1616S	
6	20152	1		HOSE ASSEMBLY - 6043-16-160S-1604 (Wheel drive pump pressure port "A" to driveline connector)	
7	20153	1		HOSE ASSEMBLY - 6047.5-16-160S-1609 (Wheel drive pump pressure port "B" to rotary manifold upper port "1")	
8	19514	1		ADAPTER, 90° flange - 63UF-16MOX20 (Code 62)	
9	15114	2	□	KIT, split flange - 1-1/4" (Code 62)	
	15378	1		O-RING - 1-1/4" SF	
10	18933	4		BOLT - 1/2" x 1-3/4"	
11	10710	4		WASHER, lock - 1/2"	
12	REF.	1	✓	WHEEL DRIVE PUMP	C.3.2
13	19513	1		ADAPTER, 90° straight- 63SF-16MOX20 (Code 62)	

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



Parts 00631 10/30/98
18.75

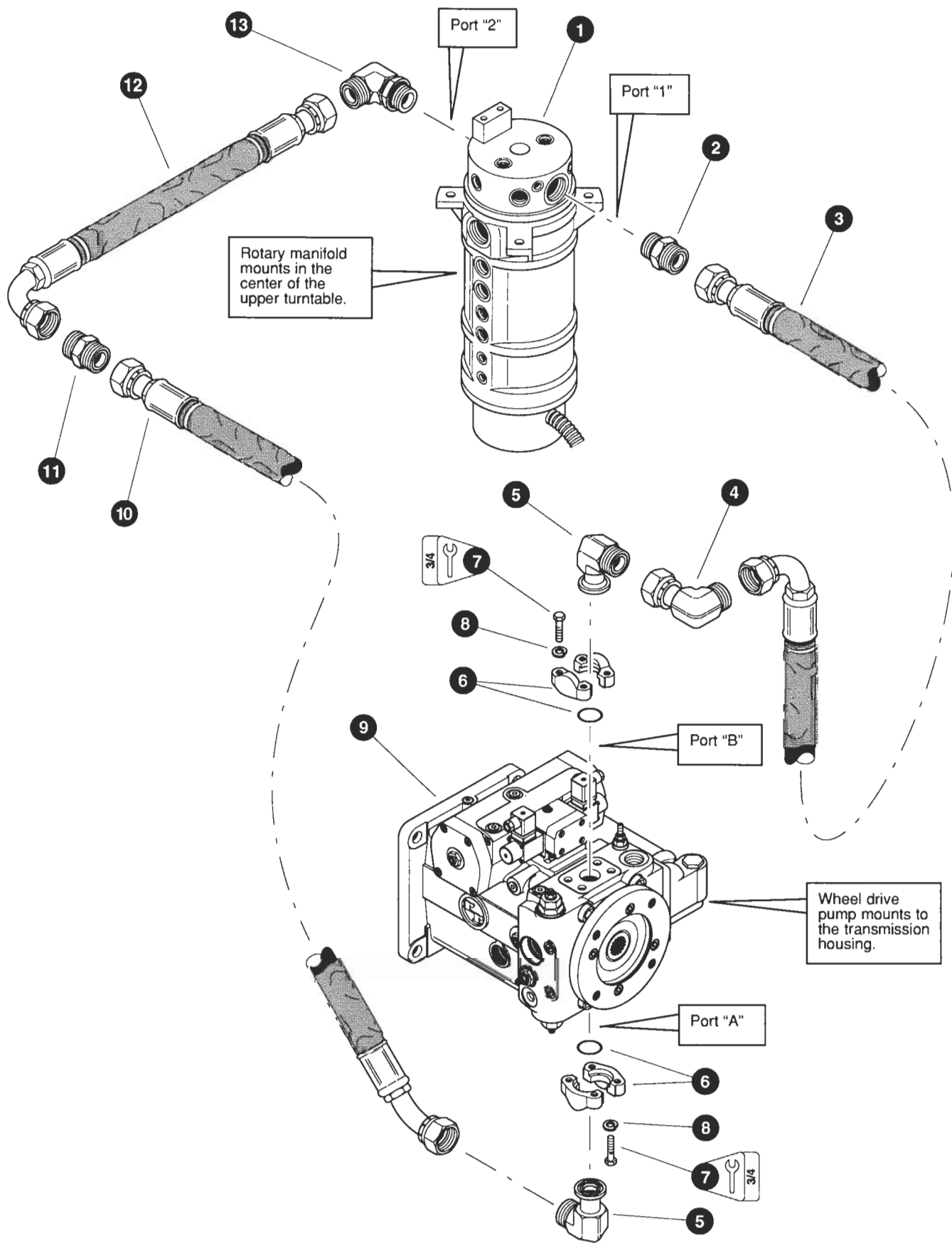
WHEEL DRIVE PUMP PRESSURE LINES

(Wheel Drive Pump To Upper Rotary Manifold Ports)

(Used on machines PDN# 053FWD thru PDN# 061FWD)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	15225	2		CONNECTOR, straight - FF1852T-1616S	
3	17682	2		ELBOW, 90° swivel - FF2098T-1616S	
4	20153	1		HOSE ASSEMBLY - 6013-16-160S-1609 (Driveline connector to rotary manifold upper port "2")	
5	15225	1		CONNECTOR, straight - FF1852T-1616S	
6	20986	1		HOSE ASSEMBLY - 6037-16-160S-1609-W (Wheel drive pump pressure port "A" to driveline connector)	
7	20985	1		HOSE ASSEMBLY - 6064.5-16-160S-1609-W (Wheel drive pump pressure port "B" to rotary manifold upper port "1")	
8	19514	1		ADAPTER, 90° flange - 63UF-16MOX20 (Code 62)	
9	15114	2	□	KIT, split flange - 1-1/4" (Code 62)	
	15378	1		O-RING - 1-1/4" SF	
10	18933	4		BOLT - 1/2" x 1-3/4"	
11	10710	4		WASHER, lock - 1/2"	
12	REF.	1	✓	WHEEL DRIVE PUMP	C.3.2
13	19513	1		ADAPTER, 90° straight- 63SF-16MOX20 (Code 62)	

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



WHEEL DRIVE PUMP PRESSURE LINES

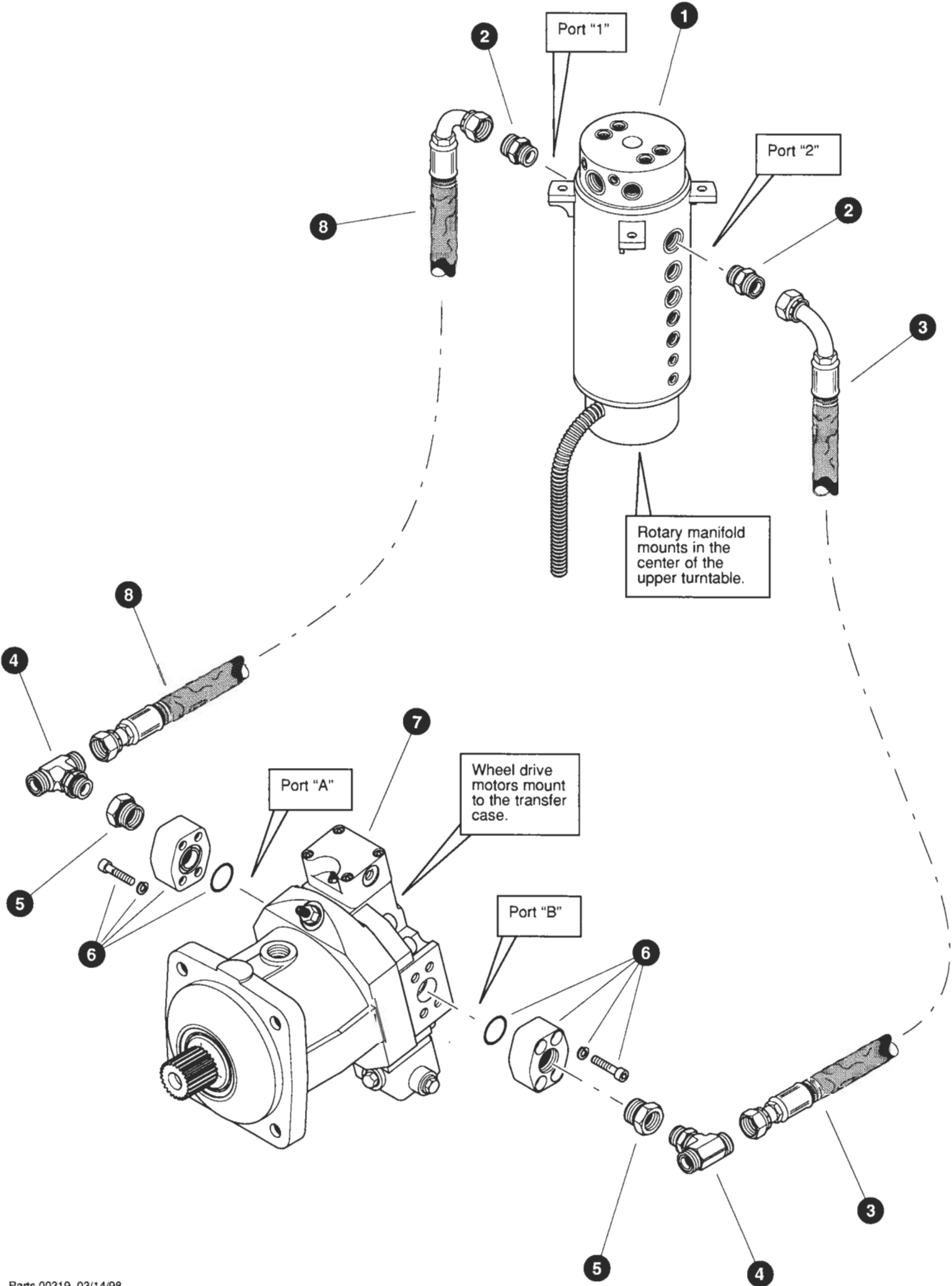
(Wheel Drive Pump To Upper Rotary Manifold Ports)

(Used on machines PDN# 062FWD and above)

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 (Wheel drive pump pressure port "B" to rotary manifold upper port "1")	
4	18573	1		ELBOW, 90° swivel - 879-TT-20	
5	21314	1		ADAPTER, 90° flange - 20 LOEQ2-S (Code 62)	
6	15114	2	□	KIT, split flange - 1-1/4" (Code 62)	
	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 (Wheel drive pump pressure port "A" to driveline connector)	
11	21313	1		CONNECTOR, straight - 20 HLO-S	
12	21175	1		HOSE ASSEMBLY - 6013-20-200S-2009-W (Driveline connector to rotary manifold upper port "2")	
13	17055	1		ELBOW, 90° - FF1868T-2020S	

✓ See referenced page for component or assembly breakdown.

□ Kit or Assembly - includes all items indented underneath.



Parts 00319 03/14/98
25.00

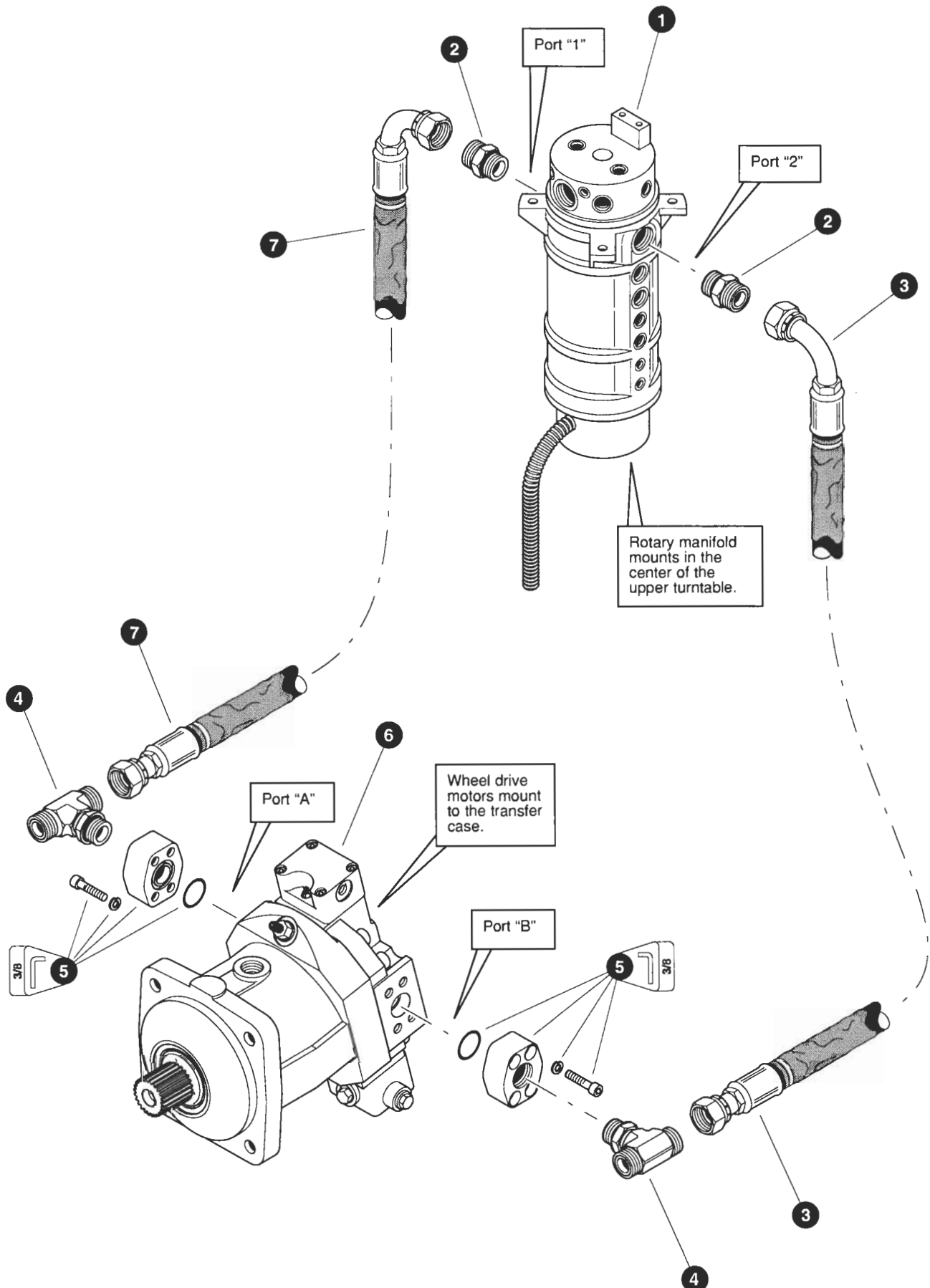
WHEEL DRIVE PUMP PRESSURE LINES

(Lower Rotary Manifold Ports To Front Wheel Drive Motor)

(Used on machines PDN# 061FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	15225	2		CONNECTOR, straight - FF1852T-1616S	
3	20977	1		HOSE ASSEMBLY - 6042.5-16-160S-1609-W (Rotary manifold lower port "2" to front wheel drive motor port "B" tee) (Used on machines with Superior transfer case, PDN# 0053FWD and above)	
	20548	1		HOSE ASSEMBLY - 6039.5-16-160S-1609-W (Rotary manifold lower port "2" to front wheel drive motor port "B" tee) (Used on machines with Funk transfer case, PDN# 052FWD and below)	
4	20065	2		TEE, branch - 16-S50L0-S	
5	17015	2		BUSHING, reducer - 6410-20-16	
6	17016	2	□	CONNECTOR, flange pad - 1-1/4" (Code 62)	
	15378	1		O-RING - 1-1/4" SF	
7	REF.	1	✓	FRONT WHEEL DRIVE MOTOR	C.3.12
8	20978	1		HOSE ASSEMBLY - 6044-16-160S-1609-W (Rotary manifold lower port "1" to front wheel drive motor port "A" tee) (Used on machines with Superior transfer case, PDN# 0053FWD and above)	
	20549	1		HOSE ASSEMBLY - 6041-16-160S-1609-W (Rotary manifold lower port "1" to front wheel drive motor port "A" tee) (Used on machines with Funk transfer case, PDN# 052FWD and below)	

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



Parts 00938 12/03/98
18.75

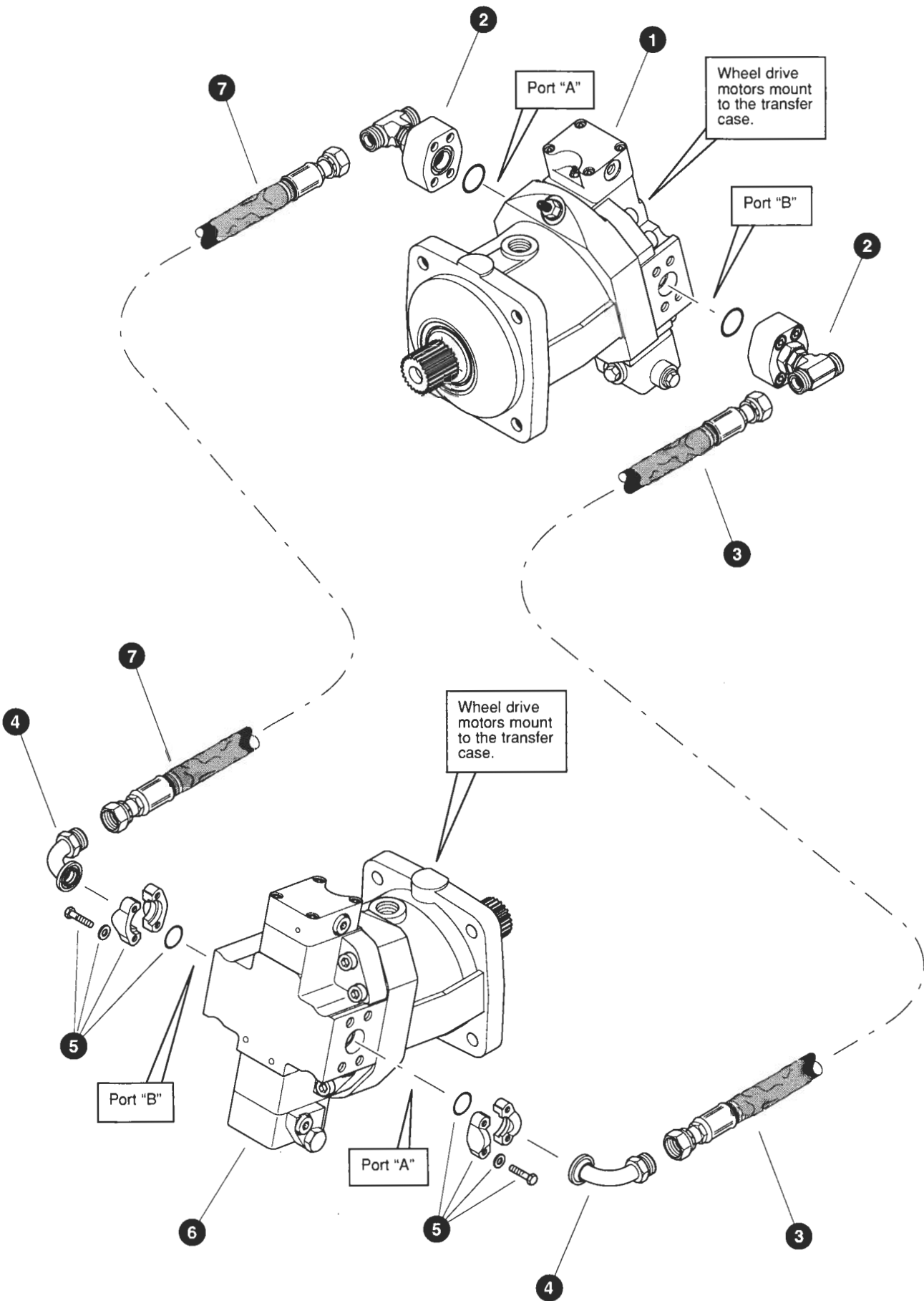
WHEEL DRIVE PUMP PRESSURE LINES

(Lower Rotary Manifold Ports To Front Wheel Drive Motor)

(Used on machines PDN# 062FWD and above)

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 (Rotary manifold lower port "2" to front wheel drive motor port "B" tee)	
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 (Rotary manifold lower port "1" to front wheel drive motor port "A" tee)	

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



Parts 00300 03/14/98
25.00

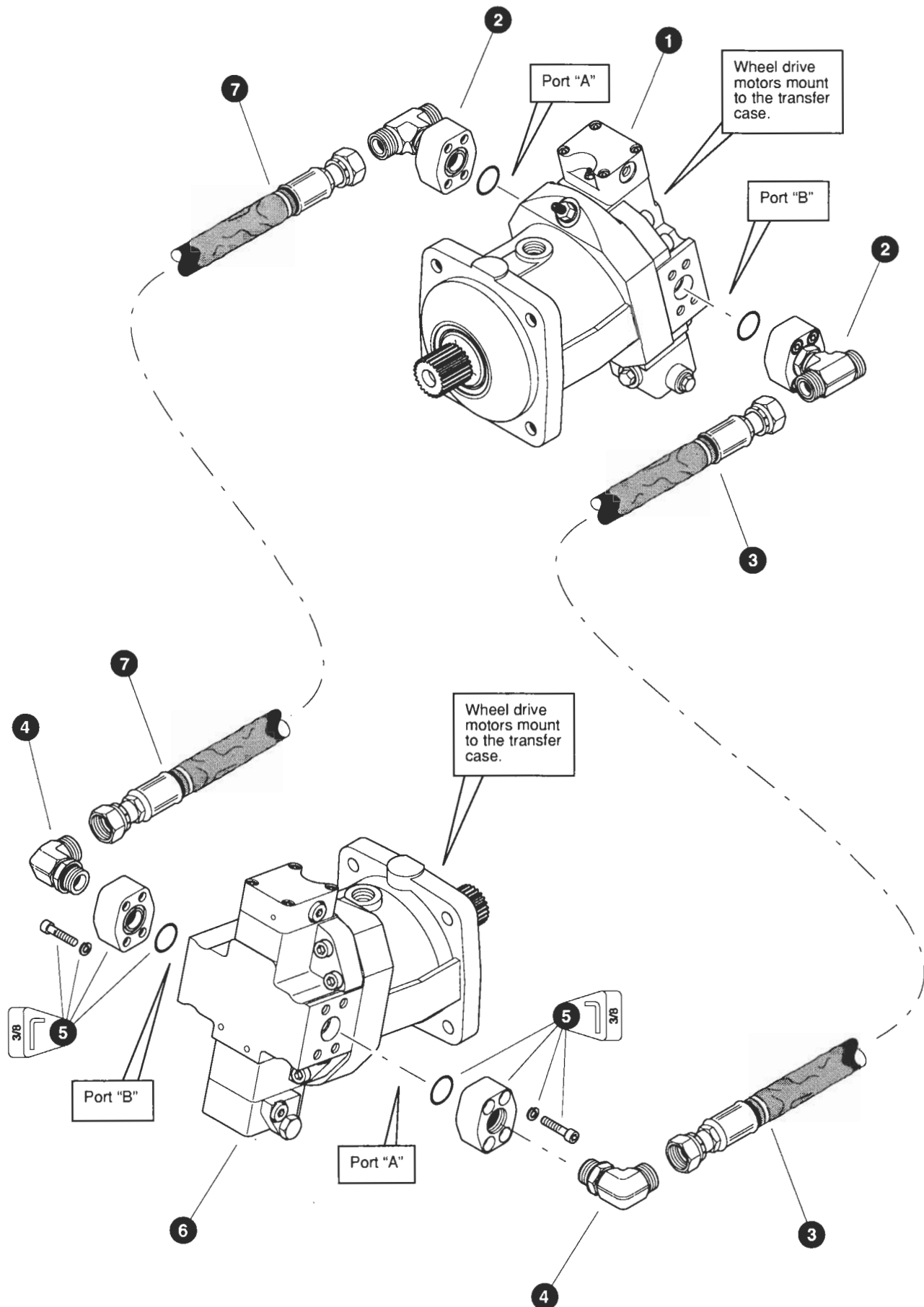
WHEEL DRIVE PUMP PRESSURE LINES

(Front Wheel Drive Motor To Rear Wheel Drive Motor)

(Used on machines PDN# 061FWD and below)

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	20979	1		HOSE ASSEMBLY - 6029.5-16-160S-1609-W (Front wheel drive motor port "B" tee to rear wheel drive motor port "A") (Used on machines with Superior transfer case, PDN# 0053FWD and above)	
	20550	1		HOSE ASSEMBLY - 6033-16-160S-1609-W (Front wheel drive motor port "B" tee to rear wheel drive motor port "A") (Used on machines with Funk transfer case, PDN# 0052FWD and below)	
4	19514	2		ADAPTER, 90° flange - 63UF-16MOX20 (Code 62)	
5	15114	2	□	KIT, split flange - 1-1/4" (Code 62)	
	15378	1		O-RING - 1-1/4" SF	
6	REF.	1	✓	REAR WHEEL DRIVE MOTOR	C.3.12
7	20979	1		HOSE ASSEMBLY - 6029.5-16-160S-1609-W (Rear wheel drive motor port "B" tee to front wheel drive motor port "A") (Used on machines with Superior transfer case, PDN# 0053FWD and above)	
	20550	1		HOSE ASSEMBLY - 6033-16-160S-1609-W (Rear wheel drive motor port "B" tee to front wheel drive motor port "A") (Used on machines with Funk transfer case, PDN# 0052FWD and below)	

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



Parts 00939 12/03/98
18.75

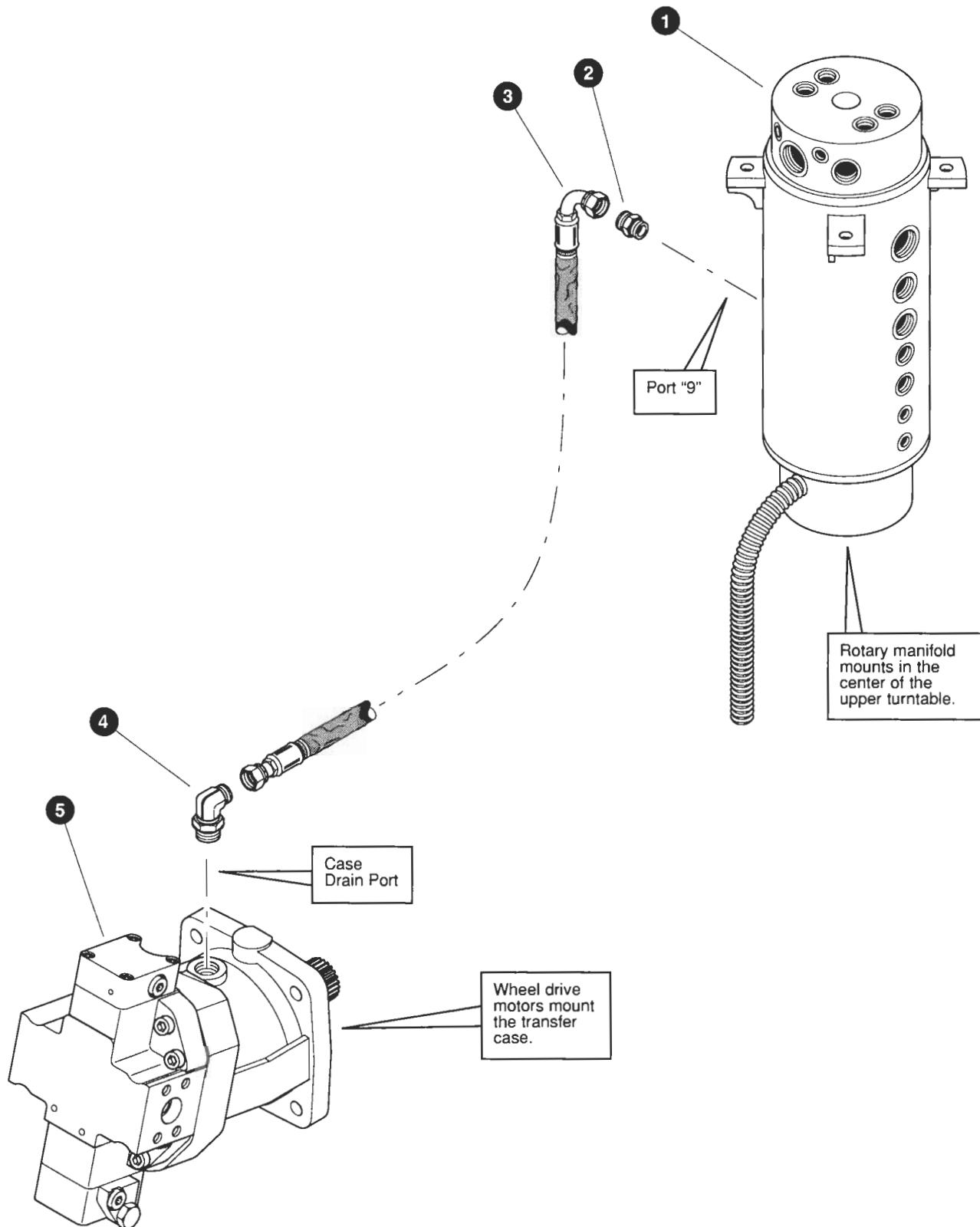
WHEEL DRIVE PUMP PRESSURE LINES

(Front Wheel Drive Motor To Rear Wheel Drive Motor)

(Used on machines PDN# 062FWD and above)

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 (Front wheel drive motor port "B" tee to rear wheel drive motor port "A")	
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 (Rear wheel drive motor port "B" tee to front wheel drive motor port "A")	

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

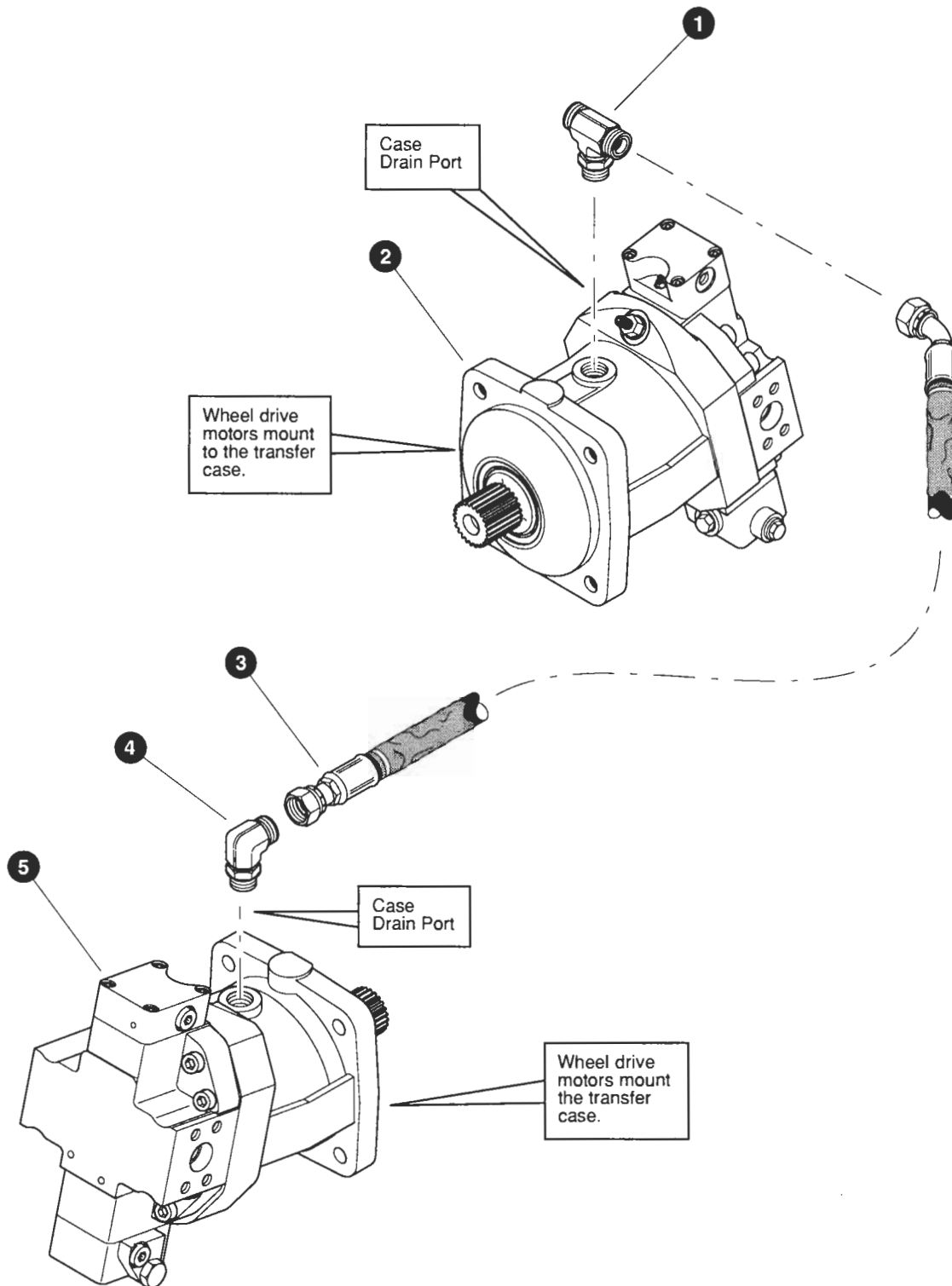


WHEEL DRIVE MOTOR CASE DRAIN LINE (Rear Wheel Drive Motor To Lower Rotary Manifold)

(Used on machines PDN# 061FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	15117	1		CONNECTOR, straight - FF1852T-0808S	
3	20930	1		HOSE ASSEMBLY - 2070-08-080S-0809-W (Rear wheel drive motor case drain port to rotary manifold lower port "9")	
4	15372	1		ELBOW, 90° - FF1868T-0812S	
5	REF.	1	✓	REAR WHEEL DRIVE MOTOR	C.3.12

✓ See referenced page for component or assembly breakdown.



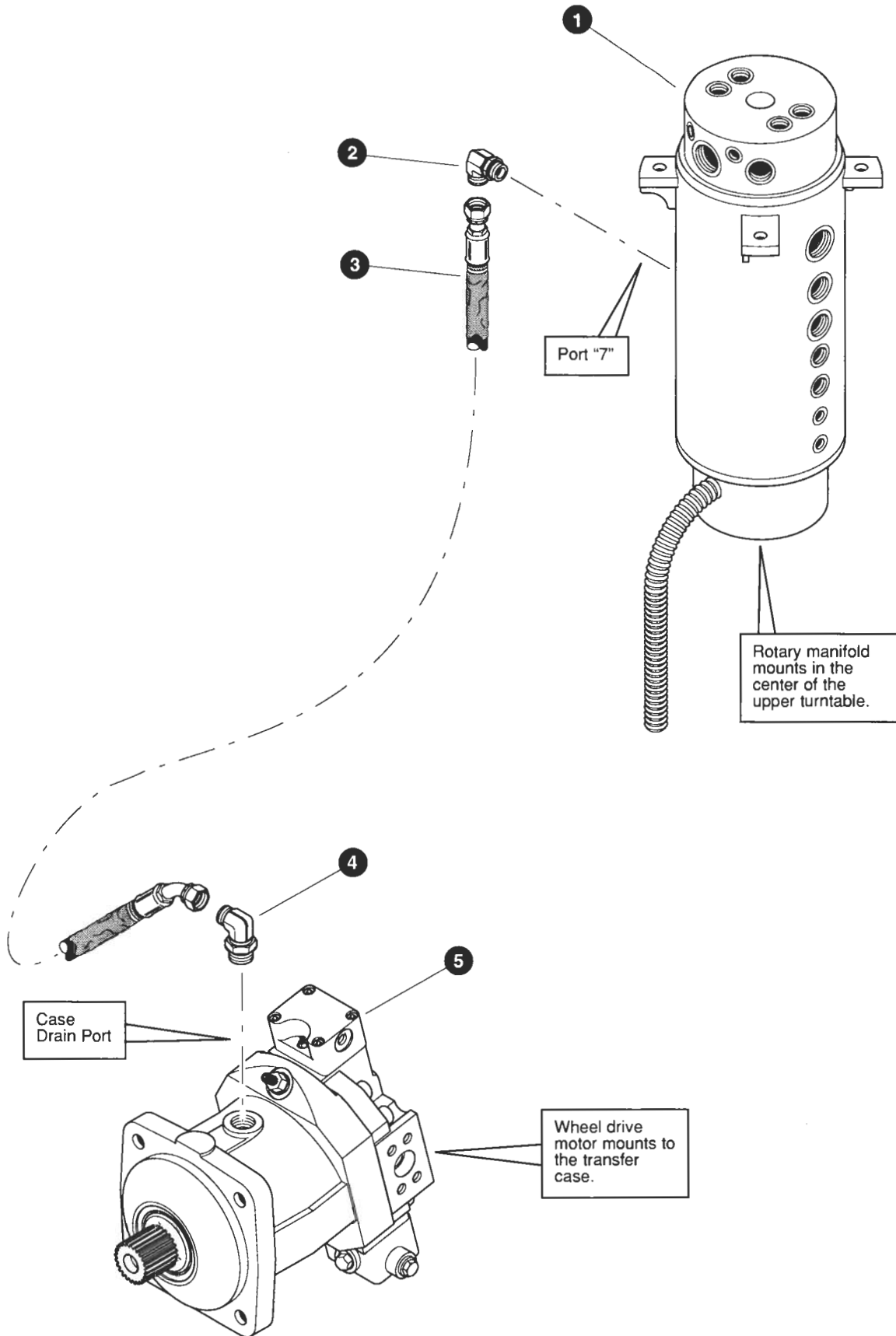
WHEEL DRIVE MOTOR CASE DRAIN LINE

(Rear Wheel Drive Motor To Front Wheel Drive Motor)

(Used on machines PDN# 062FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FRONT WHEEL DRIVE MOTOR	C.3.12
2	17687	1		TEE - FF1114T-1212S	
3	21177	1		HOSE ASSEMBLY - 2022.5-12-120S-1204-W (Rear wheel drive motor case drain port to front wheel drive motor case drain port)	
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.



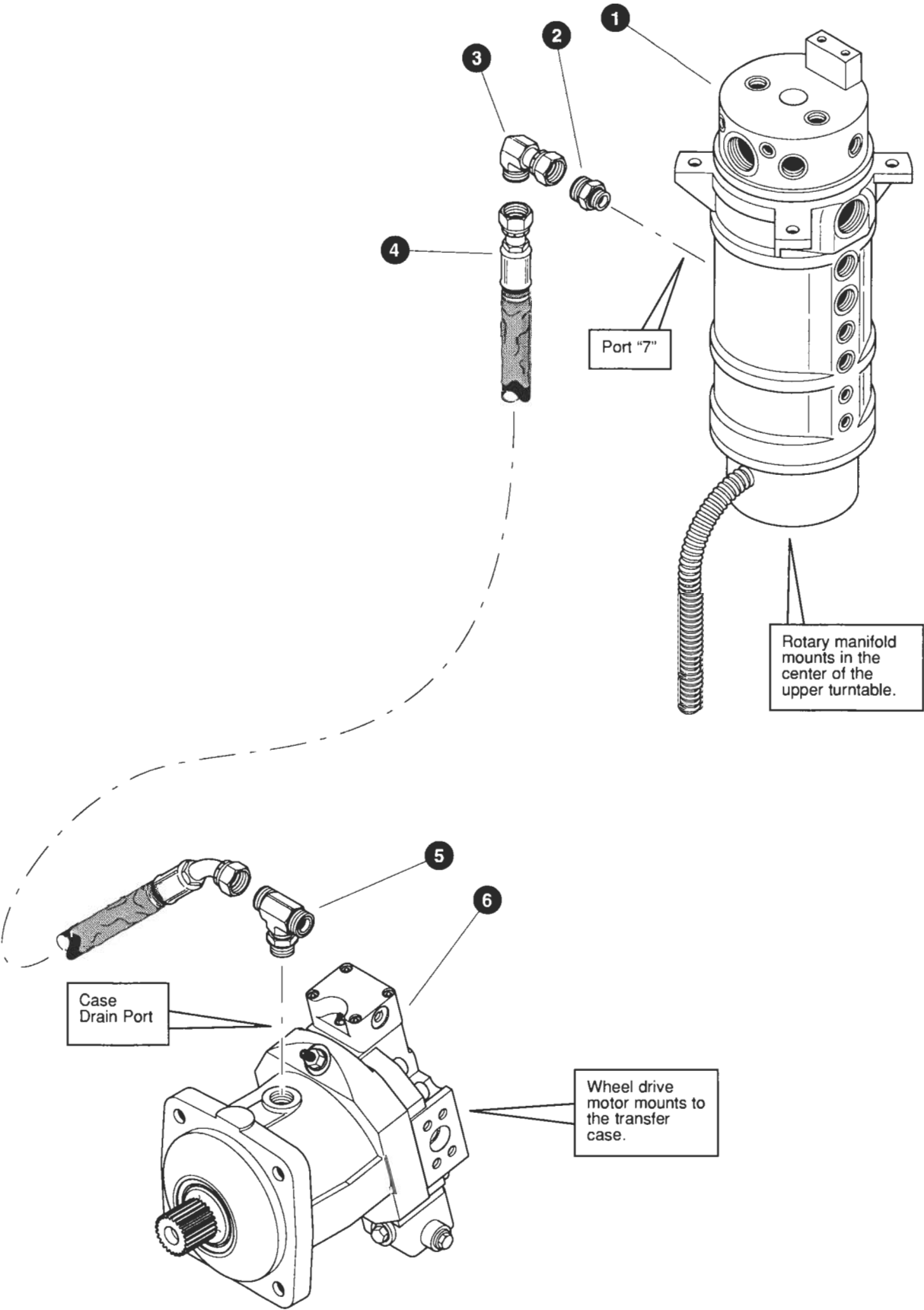
Parts 00564 04/27/98
25.00

WHEEL DRIVE MOTOR CASE DRAIN LINE (Front Wheel Drive Motor To Lower Rotary Manifold)

(Used on machines PDN# 061FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	15117	1		CONNECTOR, straight - FF1852T-0808S	
3	20980	1		HOSE ASSEMBLY - 2057-08-080S-0804-W (Front wheel drive motor case drain port to rotary manifold lower port "7") (Used on machines with Superior transfer case, PDN# 053FWD and above)	
	20472	1		HOSE ASSEMBLY - 2054-08-080S-0804-W (Front wheel drive motor case drain port to rotary manifold lower port "7") (Used on machines with Funk transfer case, PDN# 052FWD and below)	
4	15372	1		ELBOW, 90° - FF1868T-0812S	
5	REF.	1	✓	FRONT WHEEL DRIVE MOTOR	C.3.12

✓ See referenced page for component or assembly breakdown.



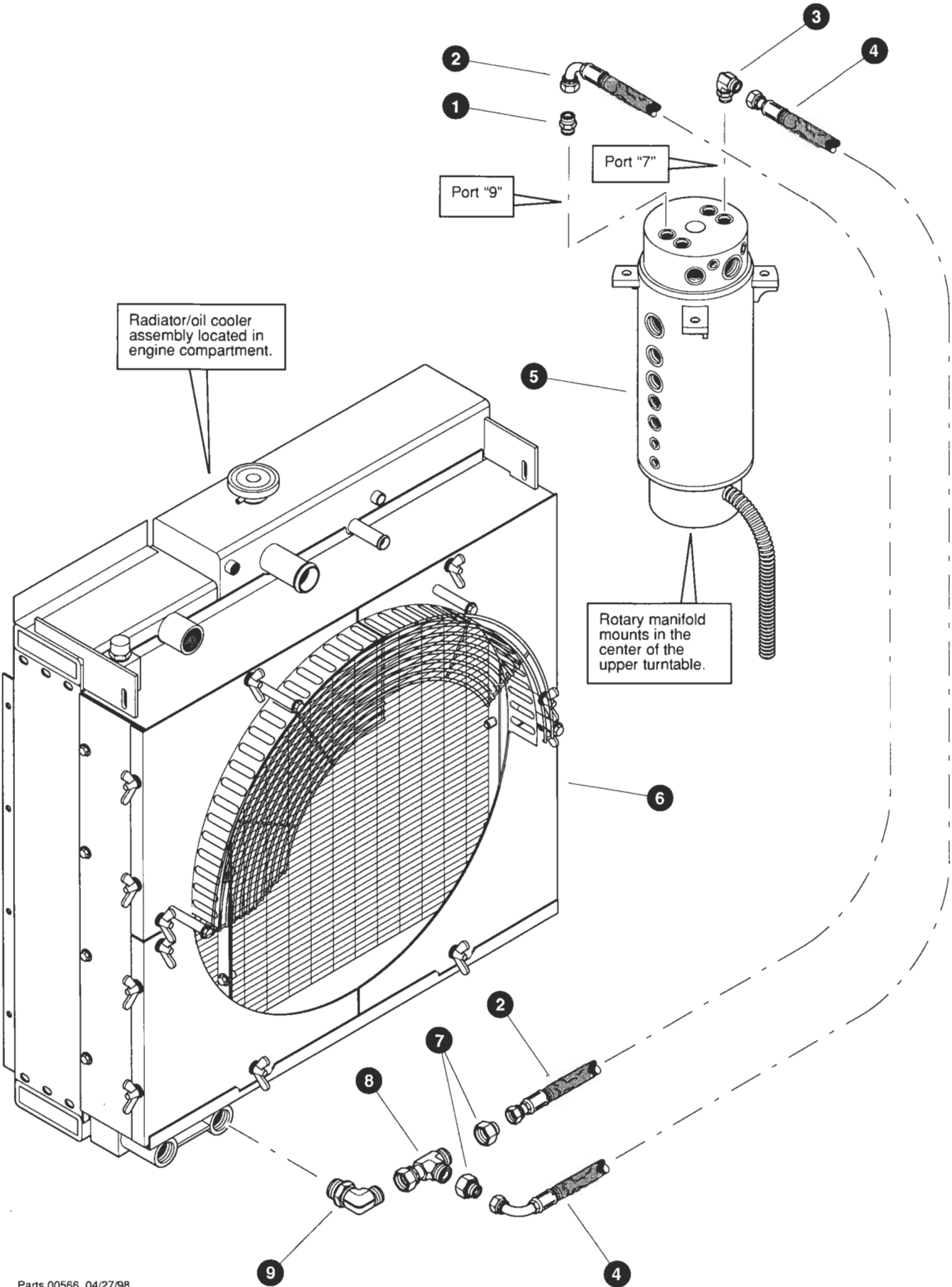
WHEEL DRIVE MOTOR CASE DRAIN LINE

(Front Wheel Drive Motor To Lower Rotary Manifold)

(Used on machines PDN# 062FWD and above)

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 (Front wheel drive motor case drain port to rotary manifold lower port "7")	
5	17687	1		TEE - FF1114T-1212S	
6	REF.	1	✓	FRONT WHEEL DRIVE MOTOR	C.3.12

✓ See referenced page for component or assembly breakdown.



Parts 00566 04/27/98
18.75

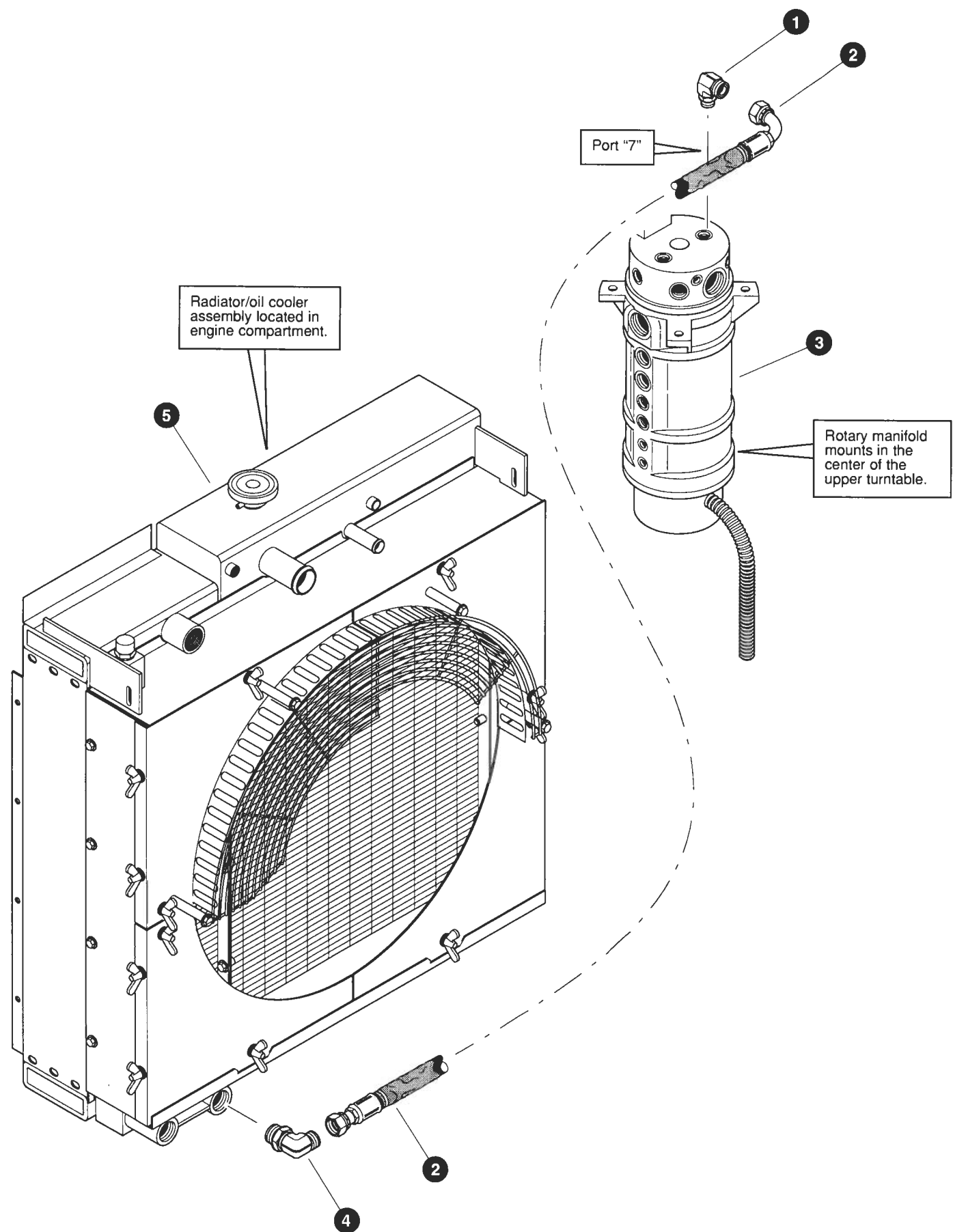
WHEEL DRIVE MOTOR CASE DRAIN LINE

(Upper Rotary Manifold Ports To Radiator/Oil Cooler)

(Used on machines PDN# 061FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15117	1		CONNECTOR, straight - FF1852T-0808S	
2	20934	1		HOSE ASSEMBLY - 2053-08-080S-0809-W (Rotary manifold upper port "9" to radiator/oil cooler port tee)	
3	16360	1		ELBOW, 90° - FF1868T-0808S	
4	20933	1		HOSE ASSEMBLY - 2062-08-080S-0809-W (Rotary manifold upper port "7" to radiator/oil cooler port tee)	
5	REF.	1	✓	ROTARY MANIFOLD	D.2.2
6	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
7	18581	2		CONNECTOR, reducer - FF2281T-0812S	
8	17687	1		TEE - FF2114T-1212S	
9	19128	1		ELBOW, 90° - FF1868T-1216S	

✓ See referenced page for component or assembly breakdown.



Parts 00942 12/04/98
18.75

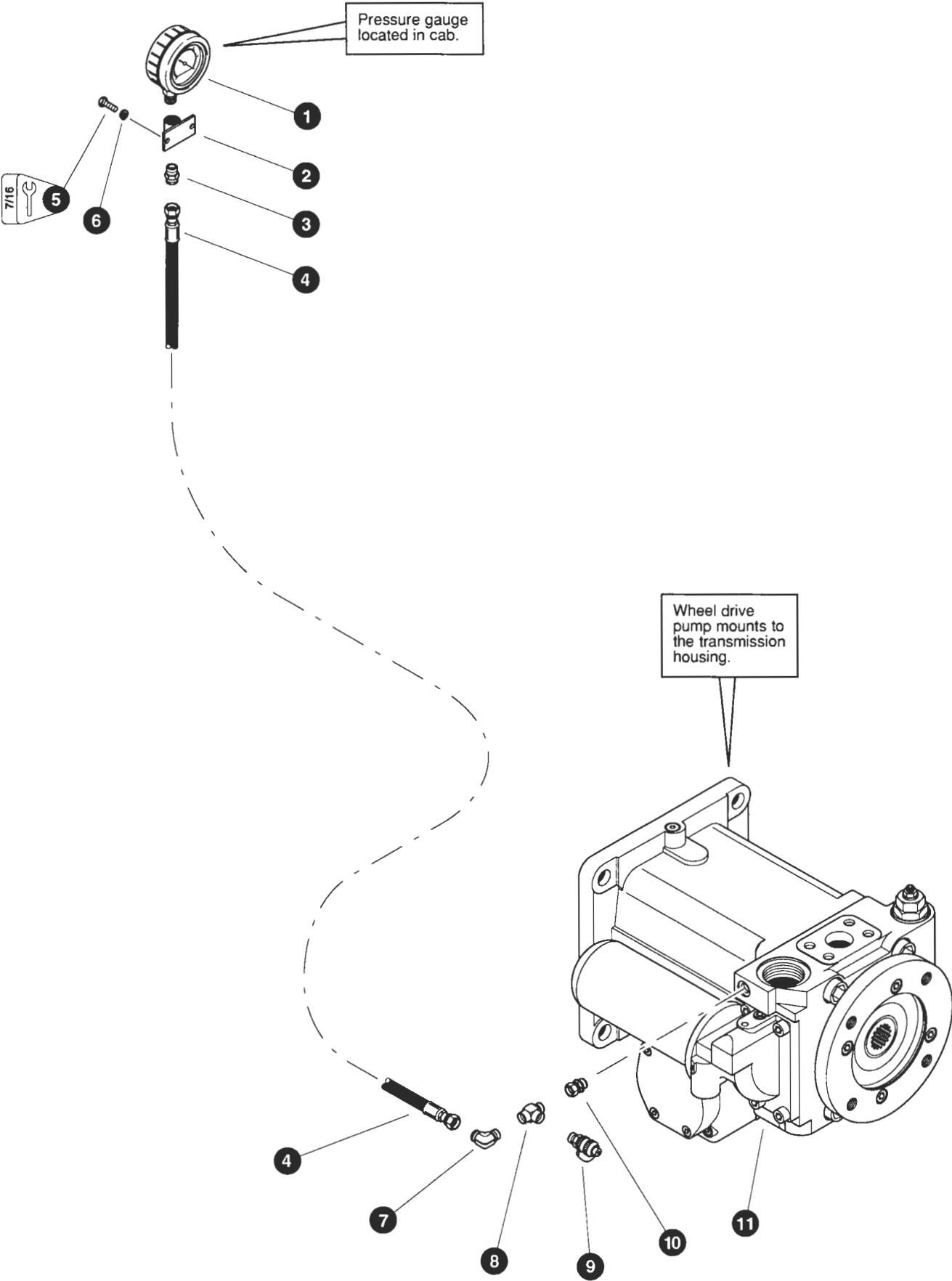
WHEEL DRIVE MOTOR CASE DRAIN LINE

(Upper Rotary Manifold Ports To Radiator/Oil Cooler)

(Used on machines PDN# 062FWD 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 (Rotary manifold upper port "7" to radiator/oil cooler)	
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.

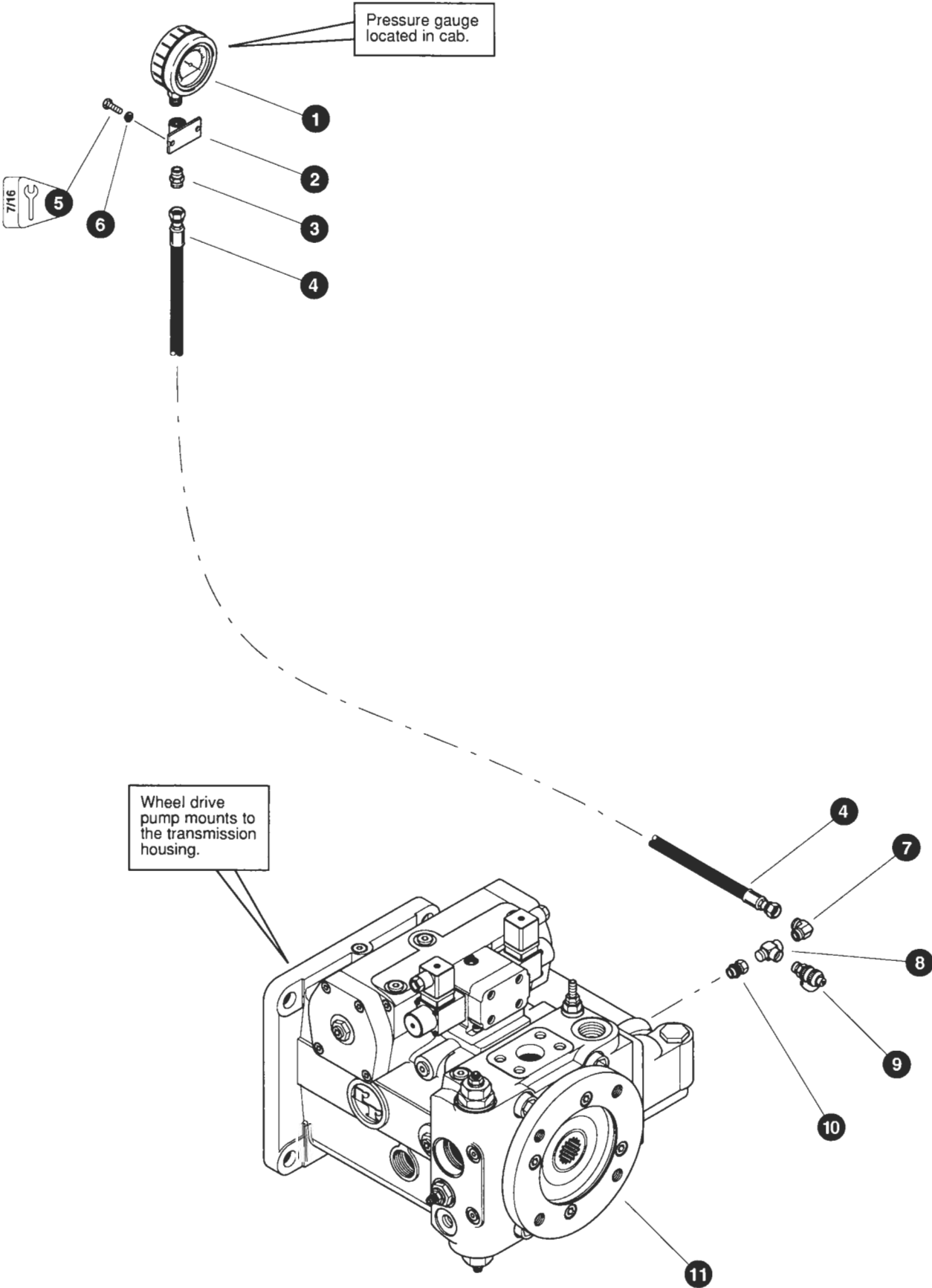


Parts 00543 04/07/98
25.00

WHEEL DRIVE PRESSURE GAUGE LINE*(Used on machines PDN# 053FWD and below)*

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	20849	1	HOSE ASSEMBLY - 4130-04-040S-040S-W (Wheel drive pump gauge port to gauge in cab)	
5	15604	2	BOLT - 1/4" x 3/4"	
6	10756	2	WASHER, SAE flat - 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.

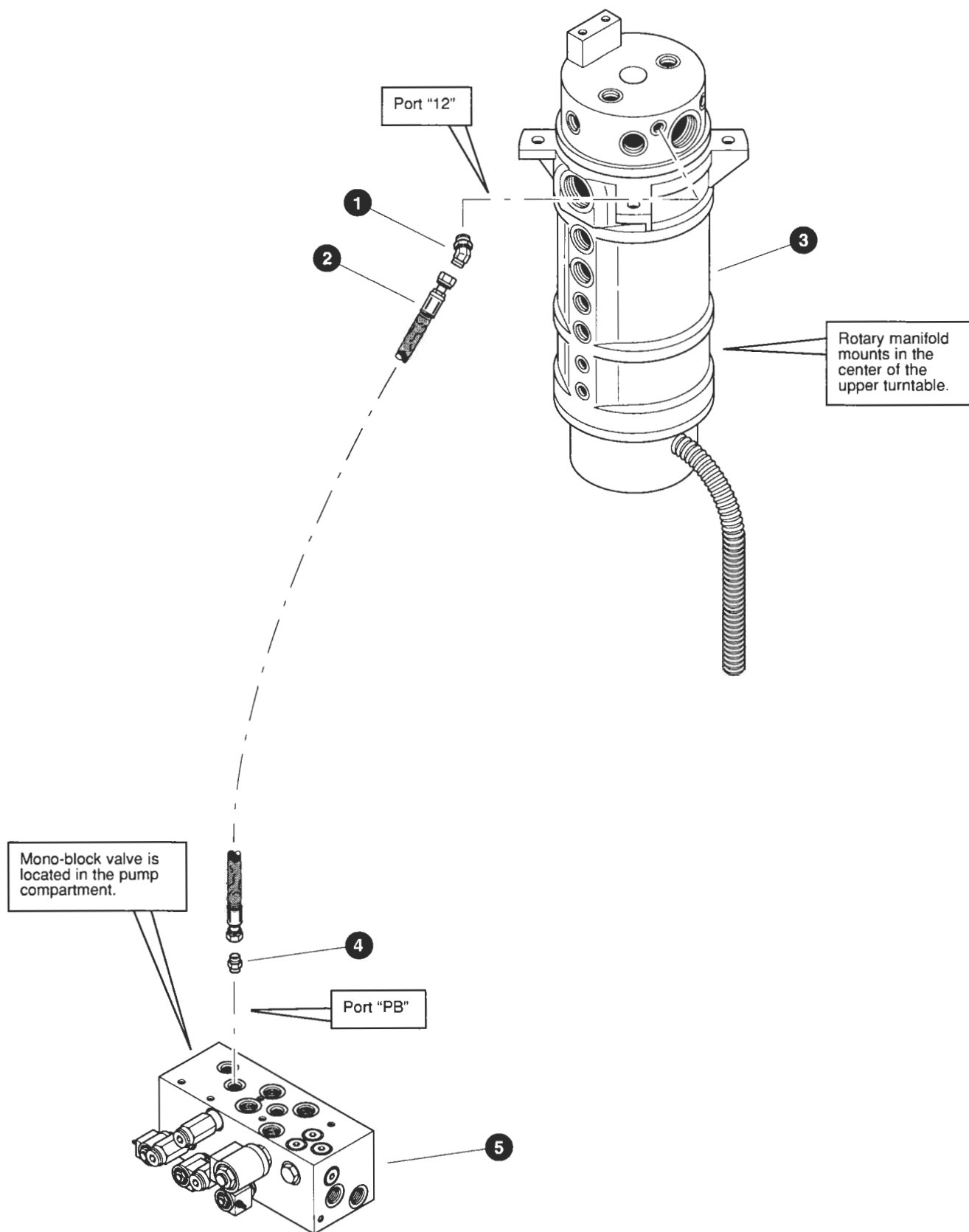


Parts 00632 10/30/98
25.00

WHEEL DRIVE PRESSURE GAUGE LINE*(Used on machines PDN# 054FWD and above)*

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 (Wheel drive pump gauge port to gauge in cab)	
5	15604	2		BOLT - 1/4" x 3/4"	
6	10756	2		WASHER, SAE flat - 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.

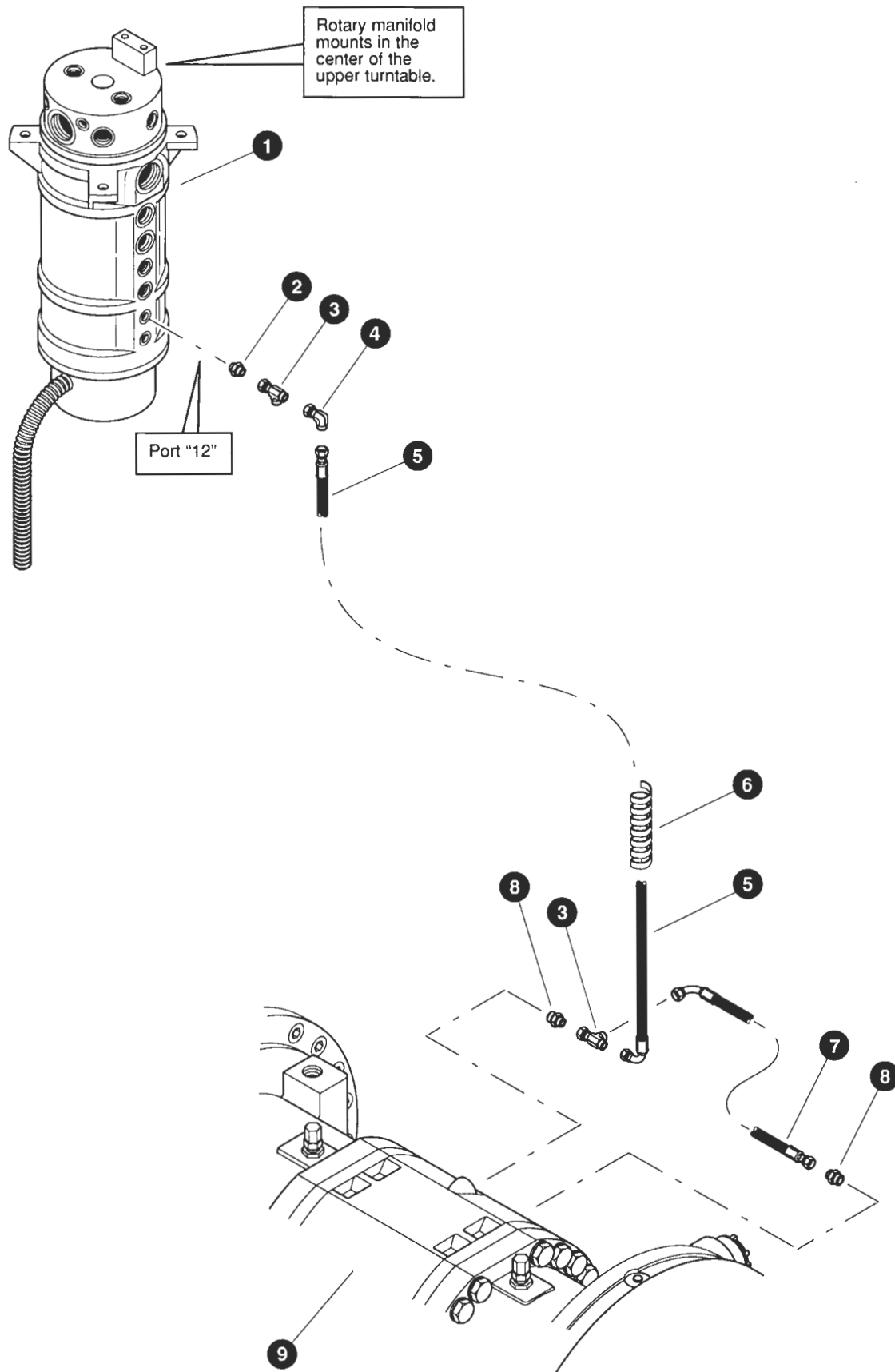


PARKING BRAKE LINES

(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 (Mono-block valve port "PB" to rotary manifold upper port "12")	
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

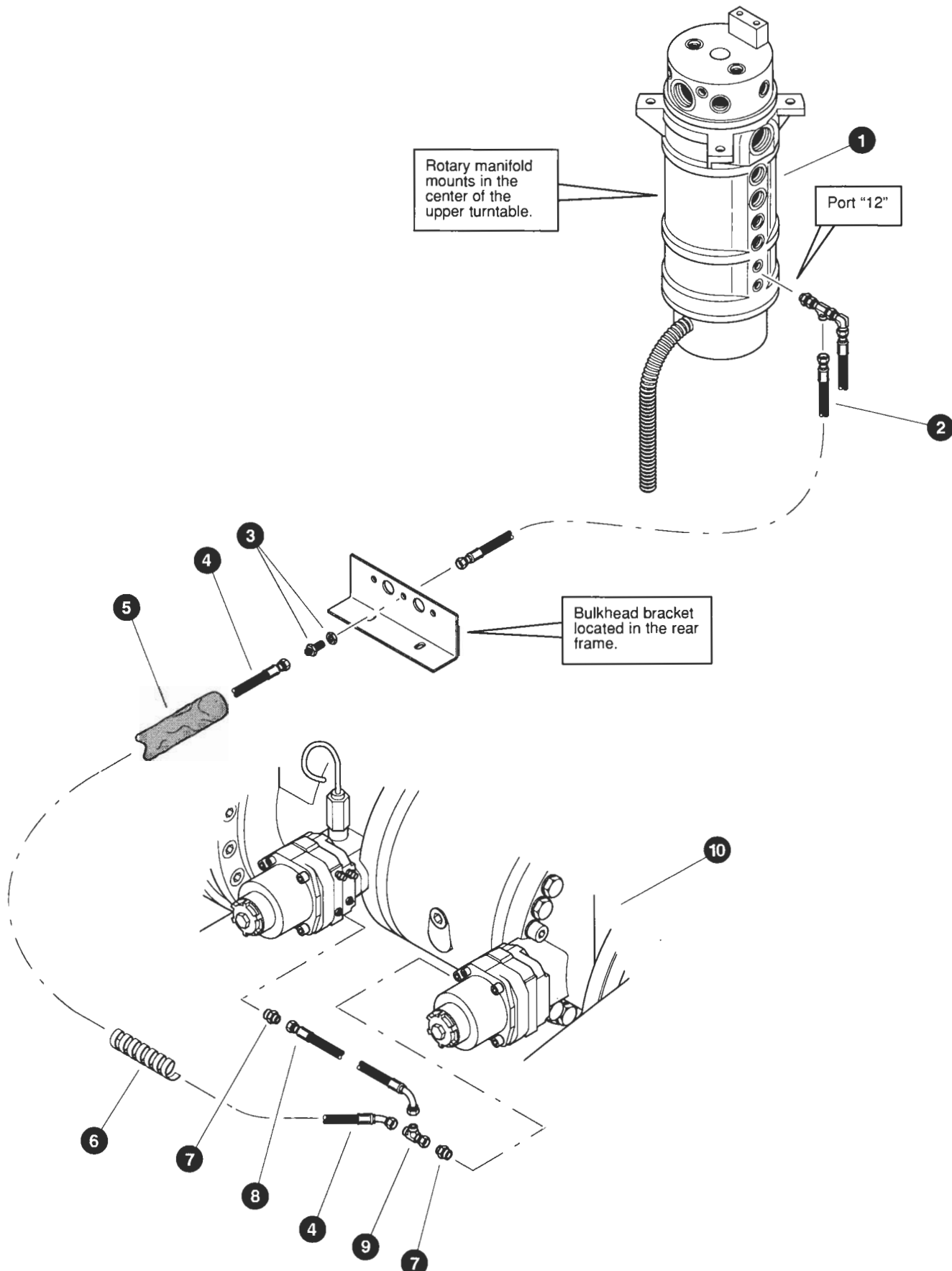
PARKING BRAKE LINES

(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 (Rotary manifold lower port "12" tee to front axle parking brake tee)	
6	20843	AR	⌘	PROTECTOR, spiral hose wrap - 3/4"	
7	20167	1		HOSE ASSEMBLY - 2009.5-04-040S-0409 (Front axle parking brake tee to RH brake chamber)	
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 meters.



Parts 00949 12/04/98
18.75

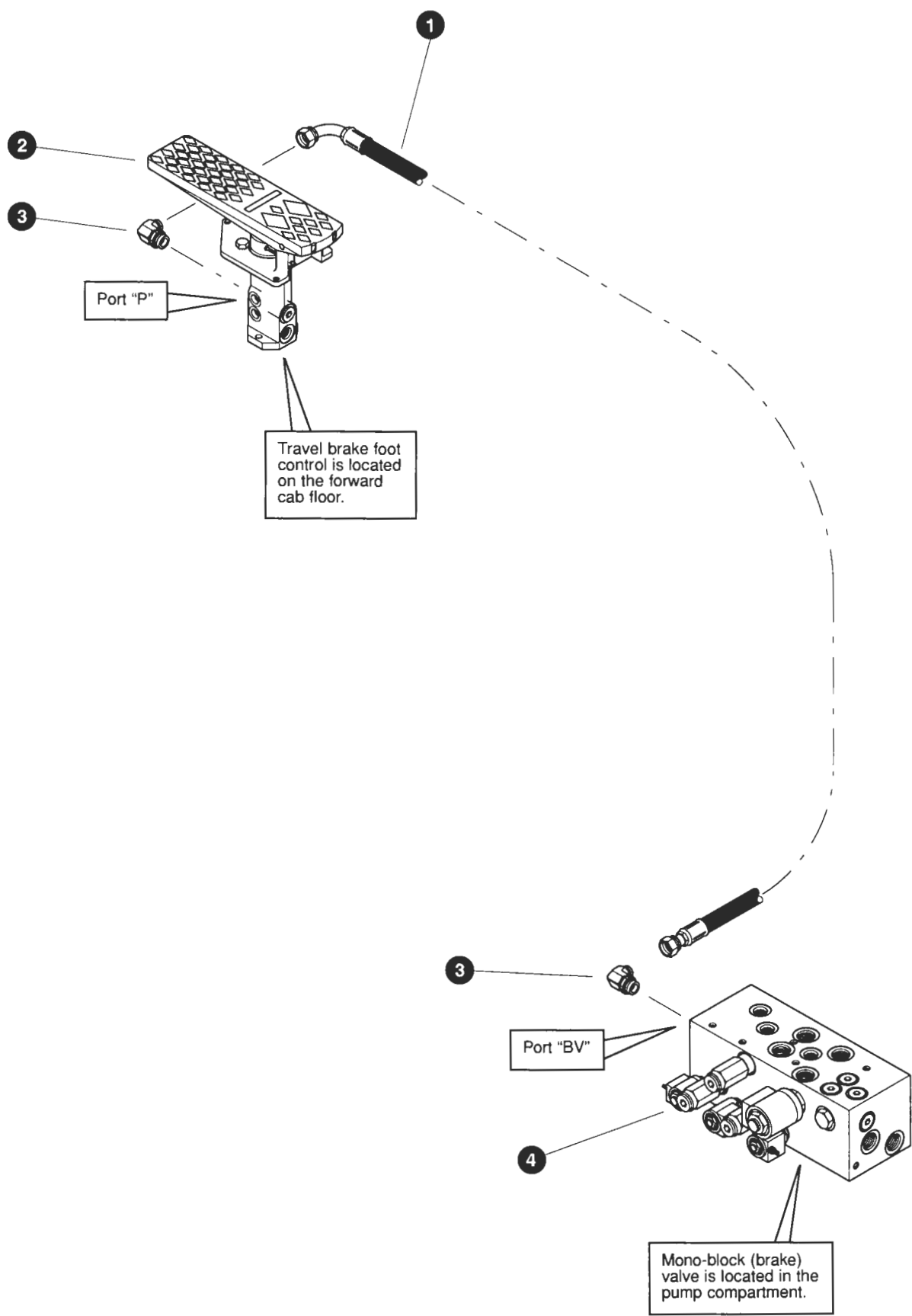
PARKING BRAKE LINES

(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 (Rotary manifold lower port "12" tee to bulkhead bracket center)	
3	18582	1		CONNECTOR, straight bulkhead - FF1994T-0404S	
4	20464	1		HOSE ASSEMBLY - 2138.5-04-040S-0404 (Bulkhead bracket center to rear axle parking brake tee)	
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 (Rear axle parking brake tee to LH brake chamber)	
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 meters.

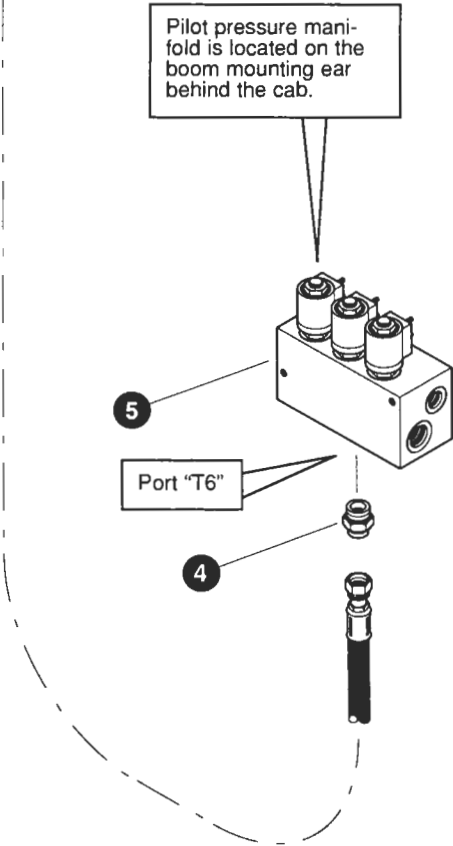
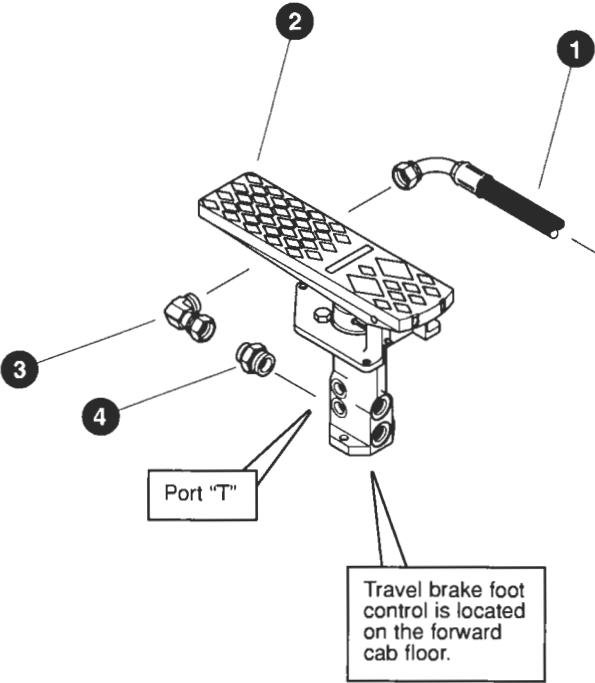


TRAVEL BRAKE LINES

(Mono-Block Valve To Travel Brake Foot Control)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20087	1		HOSE ASSEMBLY - 2125-06-060S-0609 (Mono-block valve port "BV" to travel brake foot control port "P")	
2	REF.	1	✓	TRAVEL BRAKE FOOT CONTROL	D.3.6
3	15133	2		ELBOW, 90° - FF1868T-0406S	
4	REF.	1	✓	MONO-BLOCK VALVE	D.1.6

✓ See referenced page for component or assembly breakdown.

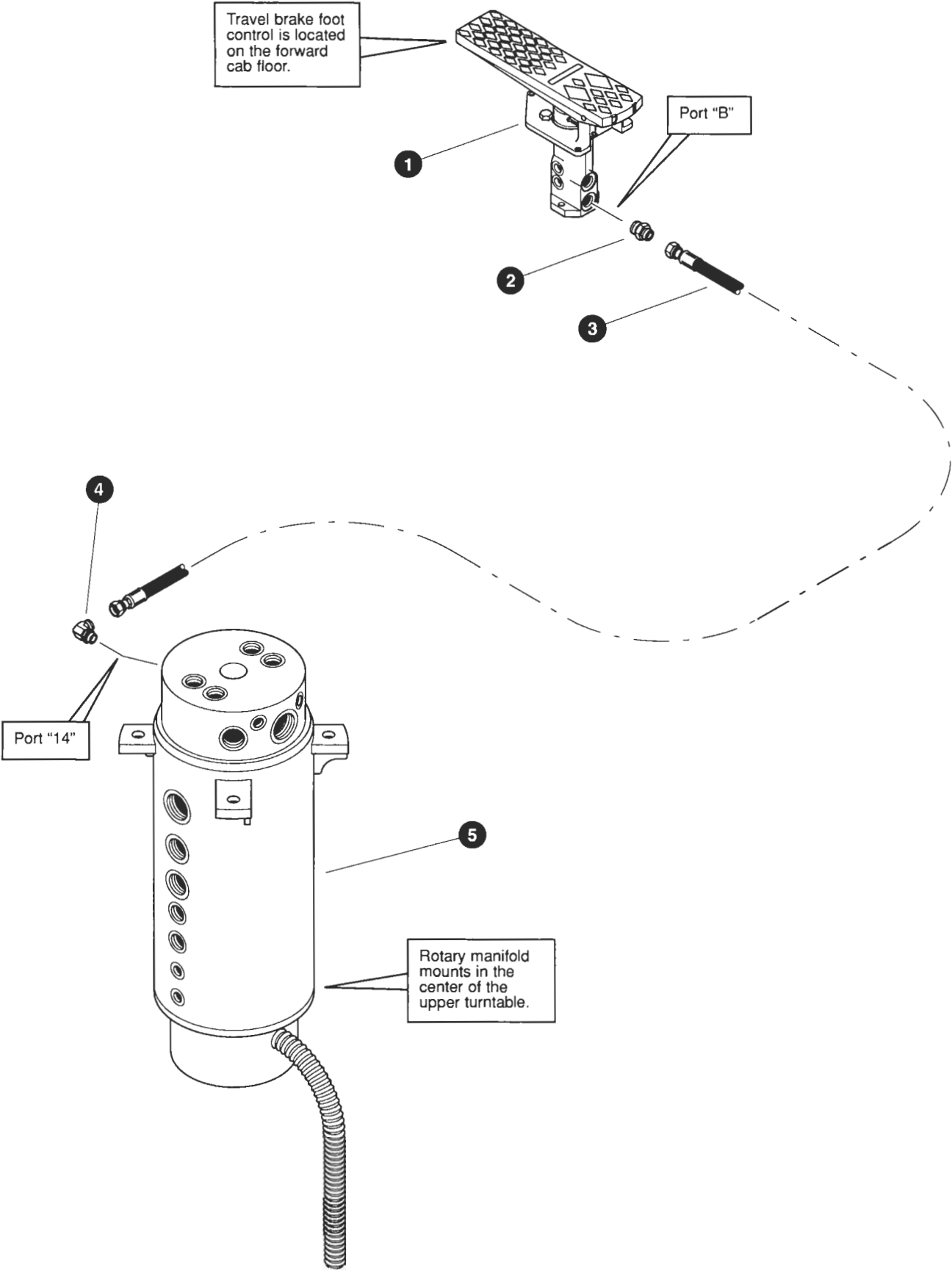


TRAVEL BRAKE LINES

(Travel Brake Foot Control To Pilot Pressure Manifold)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20092	1		HOSE ASSEMBLY - 2091-06-060S-0609 (Travel brake foot control port "T" to pilot pressure manifold port "T6")	
2	REF.	1	✓	TRAVEL BRAKE FOOT CONTROL	D.3.6
3	15145	1		ELBOW, 90° swivel - FF2098T-0404S	
4	15124	2		CONNECTOR, straight - FF1852T-0406S	
5	REF.	1	✓	PILOT PRESSURE MANIFOLD	D.1.4

✓ See referenced page for component or assembly breakdown.



Parts 00301 04/08/98
25.00

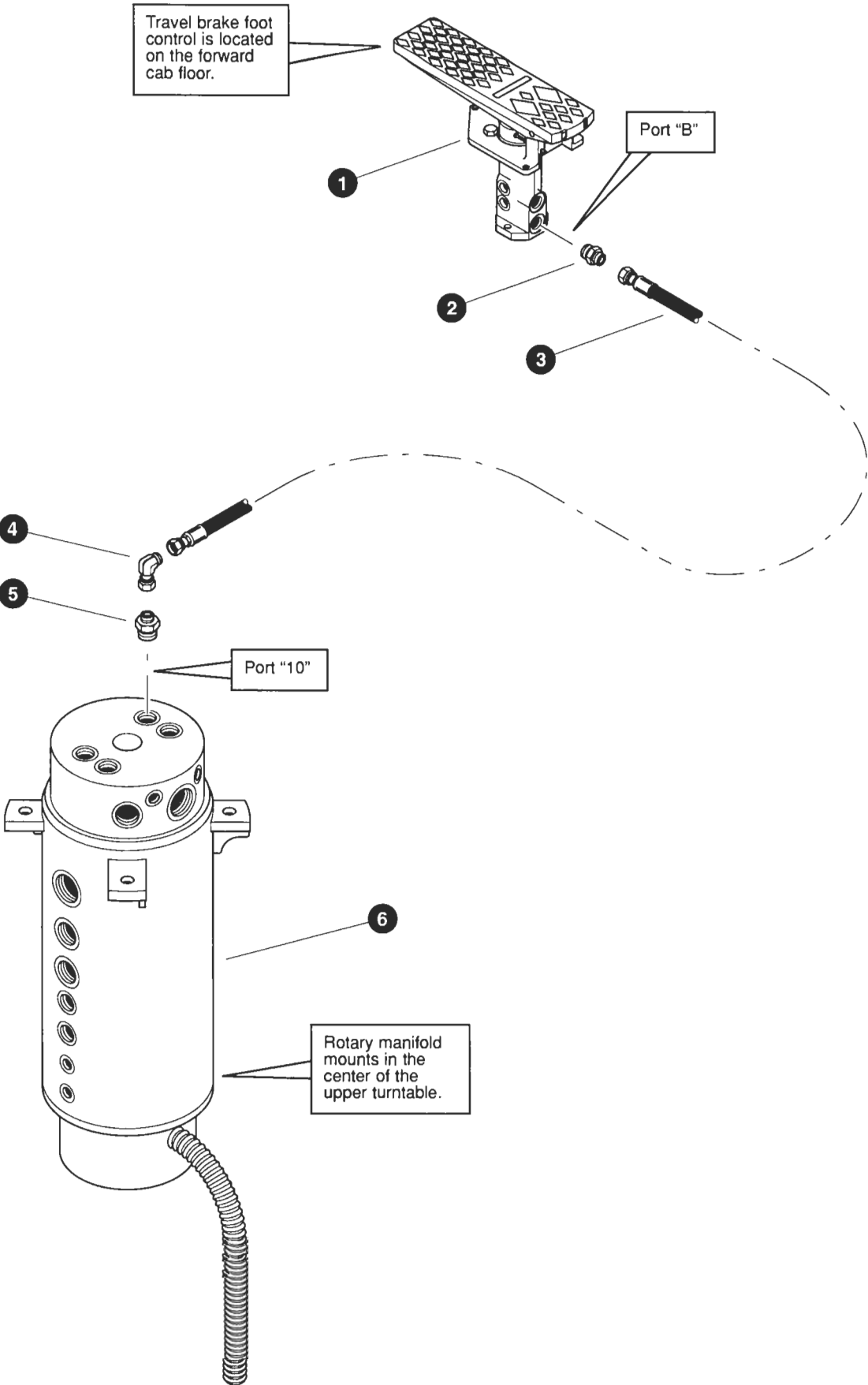
TRAVEL BRAKE LINES

(Travel Brake Foot Control To Upper Rotary Manifold)

(Used on machines PDN# 042FWD and below)

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 (Travel brake foot control port "B" to upper rotary manifold port "14")	
4	15133	1		ELBOW, 90° - FF1868T-0406S	
5	REF.	1	✓	ROTARY MANIFOLD	D.2.2

✓ See referenced page for component or assembly breakdown.



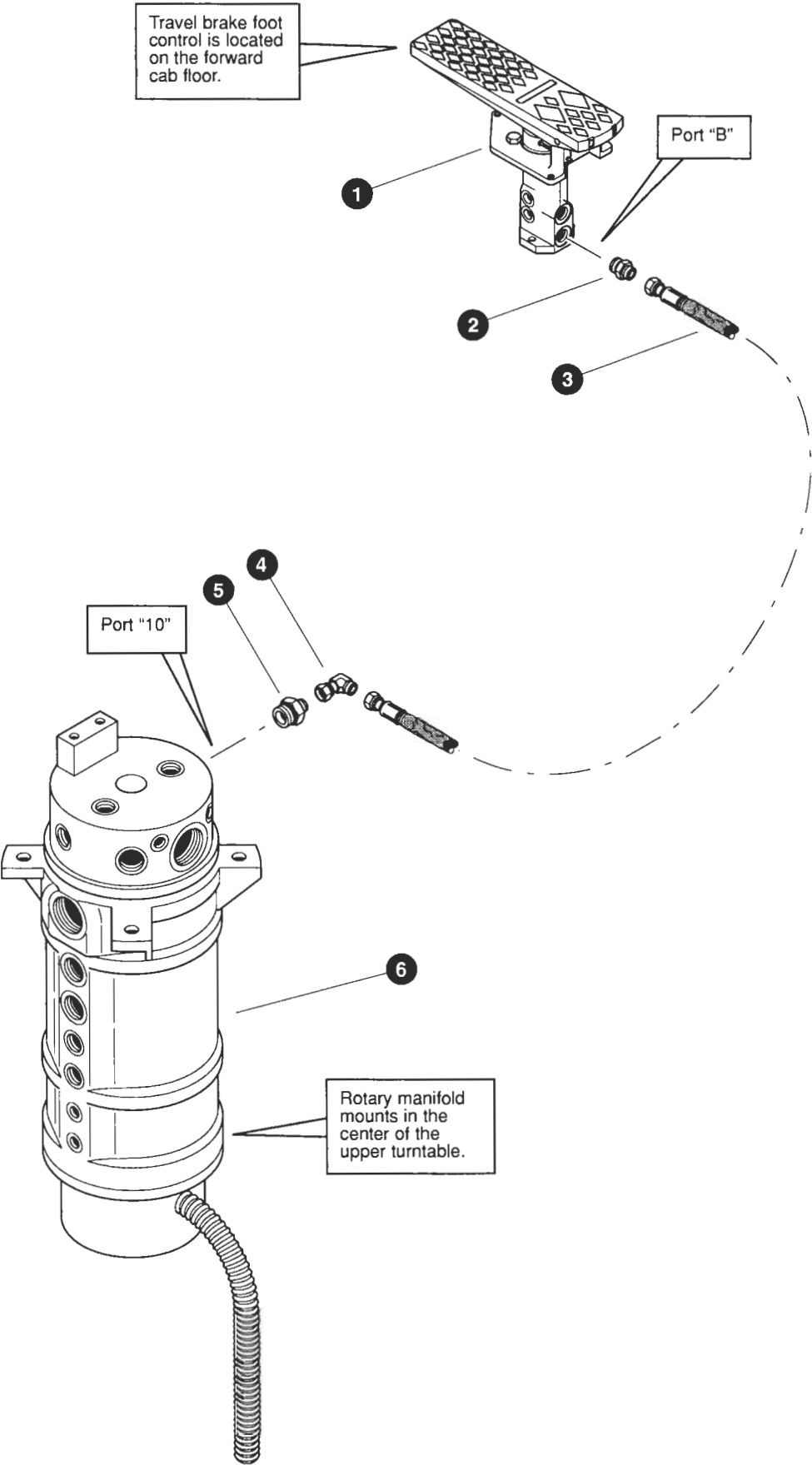
TRAVEL BRAKE LINES

(Travel Brake Foot Control To Upper Rotary Manifold)

(Used on machines PDN# 043FWD thru PDN# 061FWD)

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 (Travel brake foot control port "B" to upper rotary manifold port "10")	
4	15145	1		ELBOW, 90° swivel - FF2098T-0404S	
5	15504	1		ELBOW, 90° - FF1868T-0408S	
6	REF.	1	✓	ROTARY MANIFOLD	D.2.2

✓ See referenced page for component or assembly breakdown.



Parts 00950 12/04/98
25.00

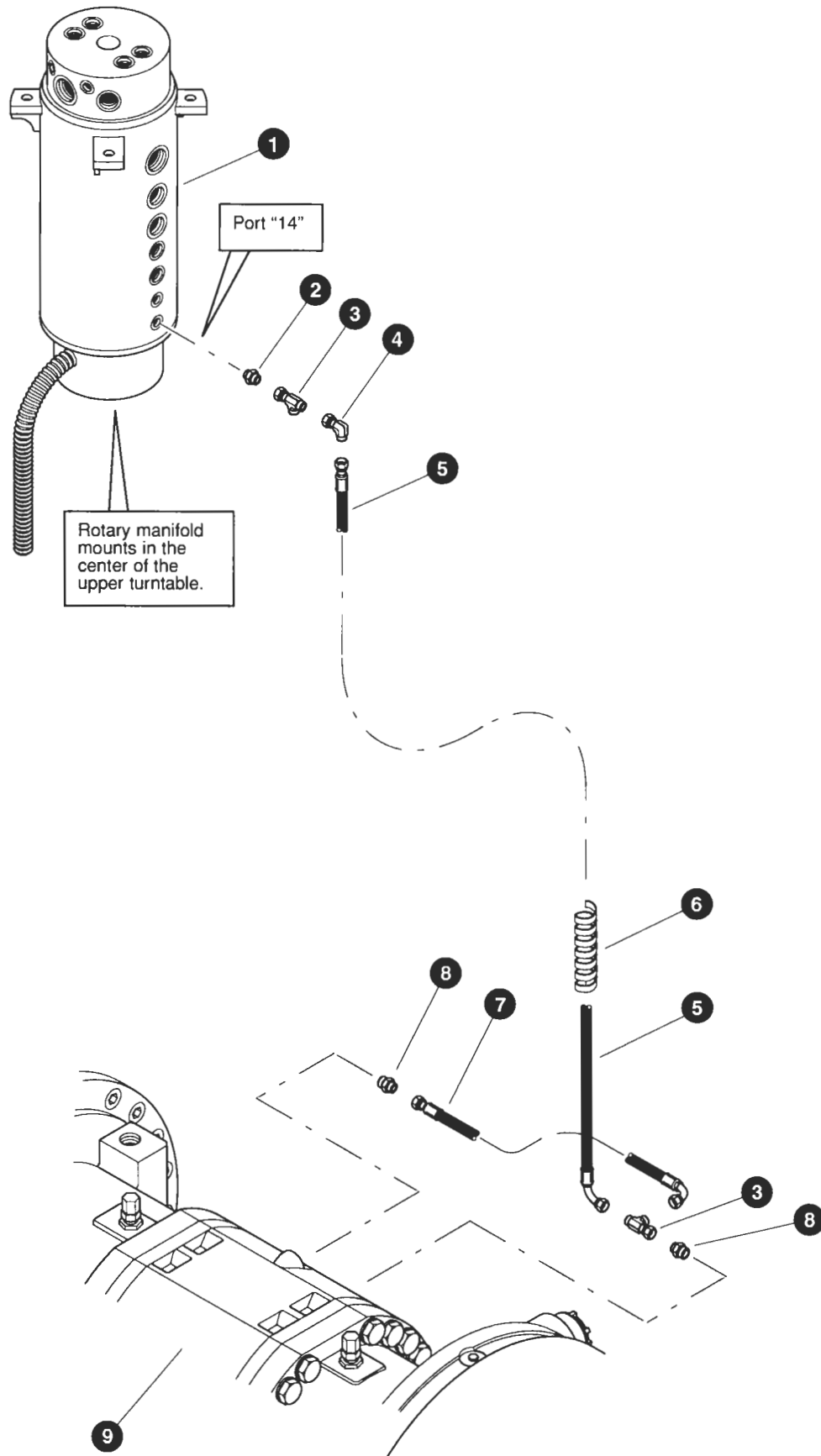
TRAVEL BRAKE LINES

(Travel Brake Foot Control To Upper Rotary Manifold)

(Used on machines PDN# 062FWD and above)

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 (Travel brake foot control port "B" to upper rotary manifold port "10")	
4	15145	1		ELBOW, 90° swivel - FF2098T-0404S	
5	15504	1		ELBOW, 90° - FF1868T-0408S	
6	REF.	1	✓	ROTARY MANIFOLD	D.2.2

✓ See referenced page for component or assembly breakdown.



Parts 00331 04/08/98
18.75

TRAVEL BRAKE LINES

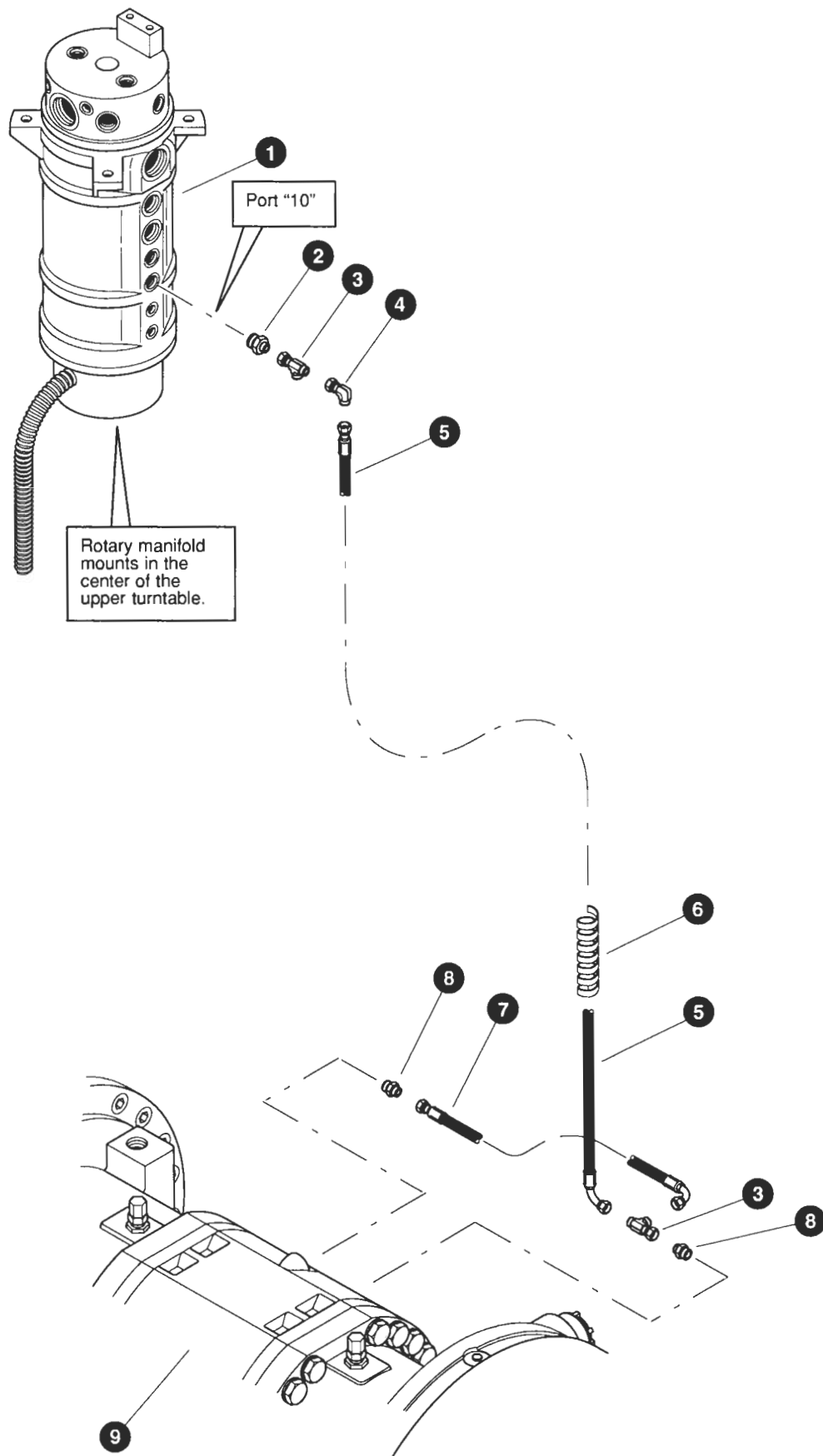
(Lower Rotary Manifold To Front Axle)

(Used on machines PDN# 042FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	15124	1		CONNECTOR, straight - FF1852T-0406S	
3	15176	2		TEE - FF2114T-0404S	
4	15145	1		ELBOW, 90° swivel - FF2098T-0404S	
5	20459	1		HOSE ASSEMBLY - 2028.5-04-040S-0409 (Rotary manifold lower port "14" to front travel brake tee)	
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 (Front axle travel brake tee to LH brake chamber)	
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 meters.



Parts 00951 12/04/98
18.75

TRAVEL BRAKE LINES

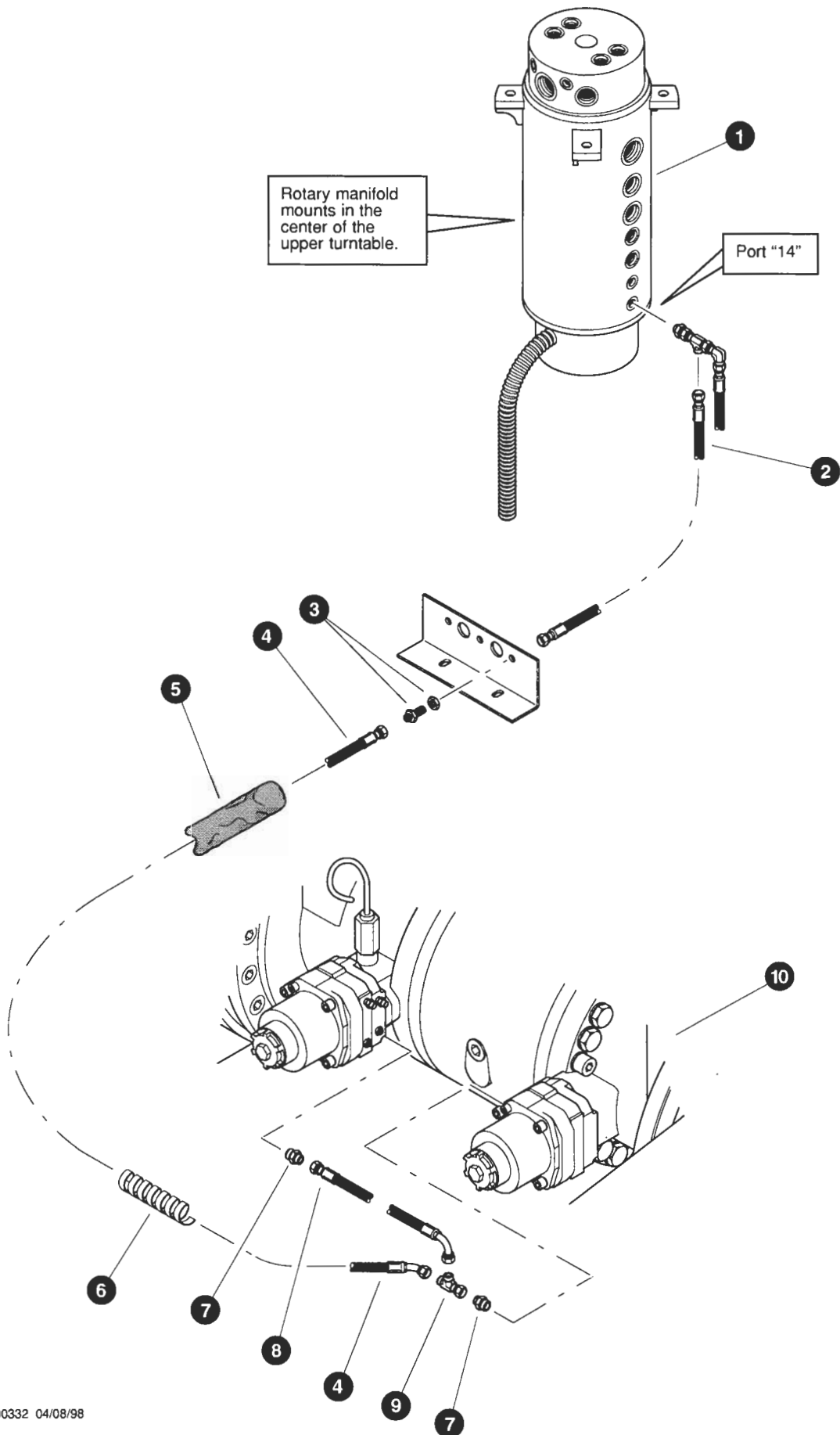
(Lower Rotary Manifold To Front Axle)

(Used on machines PDN# 043FWD and above)

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 (Rotary manifold lower port "10" to front travel brake tee)	
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 (Front axle travel brake tee to LH brake chamber)	
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 meters.



Parts 00332 04/08/98
18.75

TRAVEL BRAKE LINES

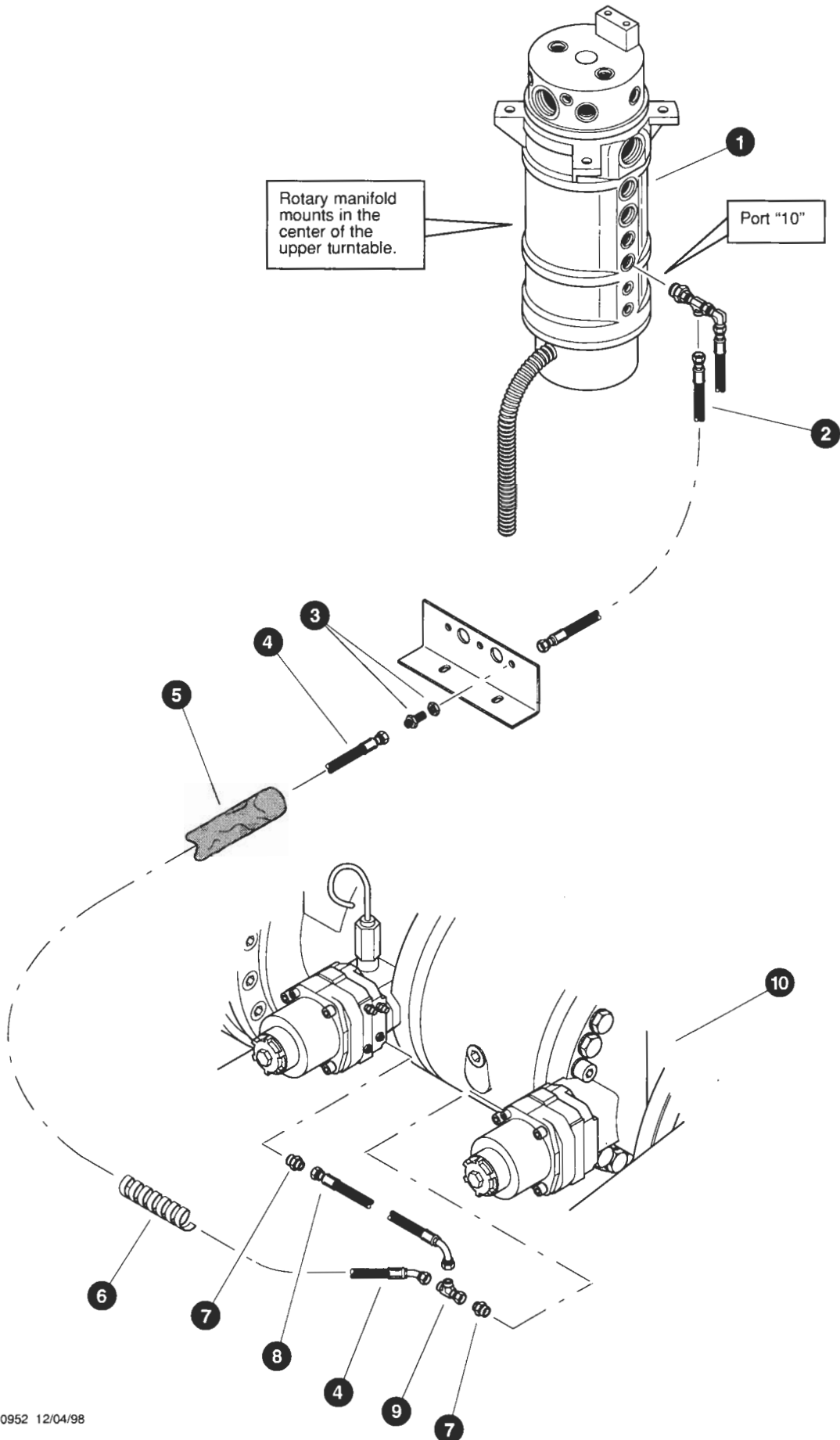
(Lower Rotary Manifold To Rear Axle)

(Used on machines PDN# 042FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	20458	1		HOSE ASSEMBLY - 2107-04-040S-040S (Rotary manifold lower port "14" tee to bulkhead bracket right)	
3	18582	1		CONNECTOR, straight bulkhead - FF1994T-0404S	
4	20465	1		HOSE ASSEMBLY - 2139.5-04-040S-0404 (Bulkhead bracket right to rear axle travel brake tee)	
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 (Rear axle travel brake tee to LH brake chamber)	
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 meters.



Parts 00952 12/04/98
18.75

TRAVEL BRAKE LINES

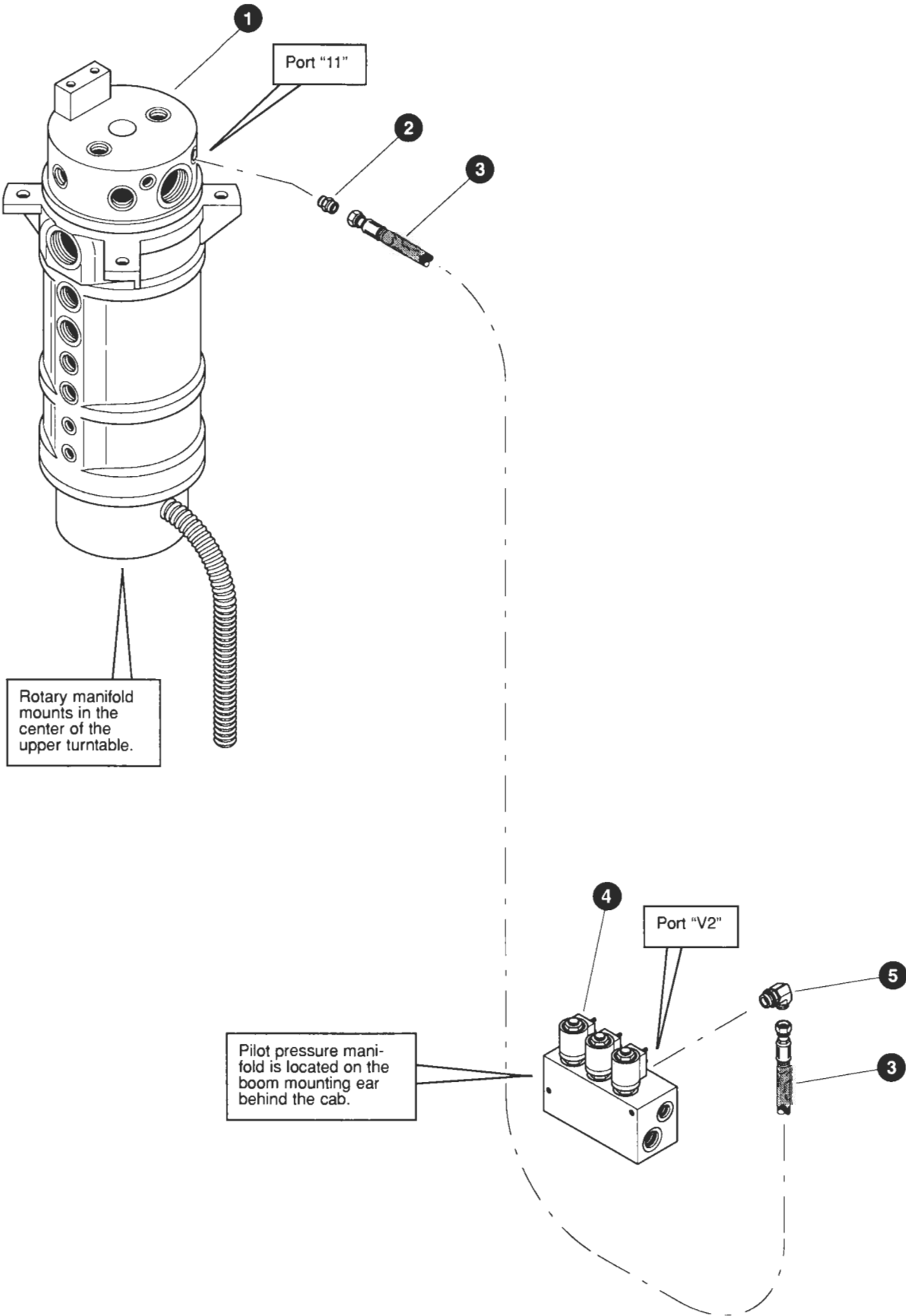
(Lower Rotary Manifold To Rear Axle)

(Used on machines PDN# 043FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ROTARY MANIFOLD	D.2.2
2	20458	1		HOSE ASSEMBLY - 2107-04-040S-040S (Rotary manifold lower port "10" tee to bulkhead bracket right)	
3	18582	1		CONNECTOR, straight bulkhead - FF1994T-0404S	
4	20465	1		HOSE ASSEMBLY - 2139.5-04-040S-0404 (Bulkhead bracket right to rear axle travel brake tee)	
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 (Rear axle travel brake tee to LH brake chamber)	
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 meters.

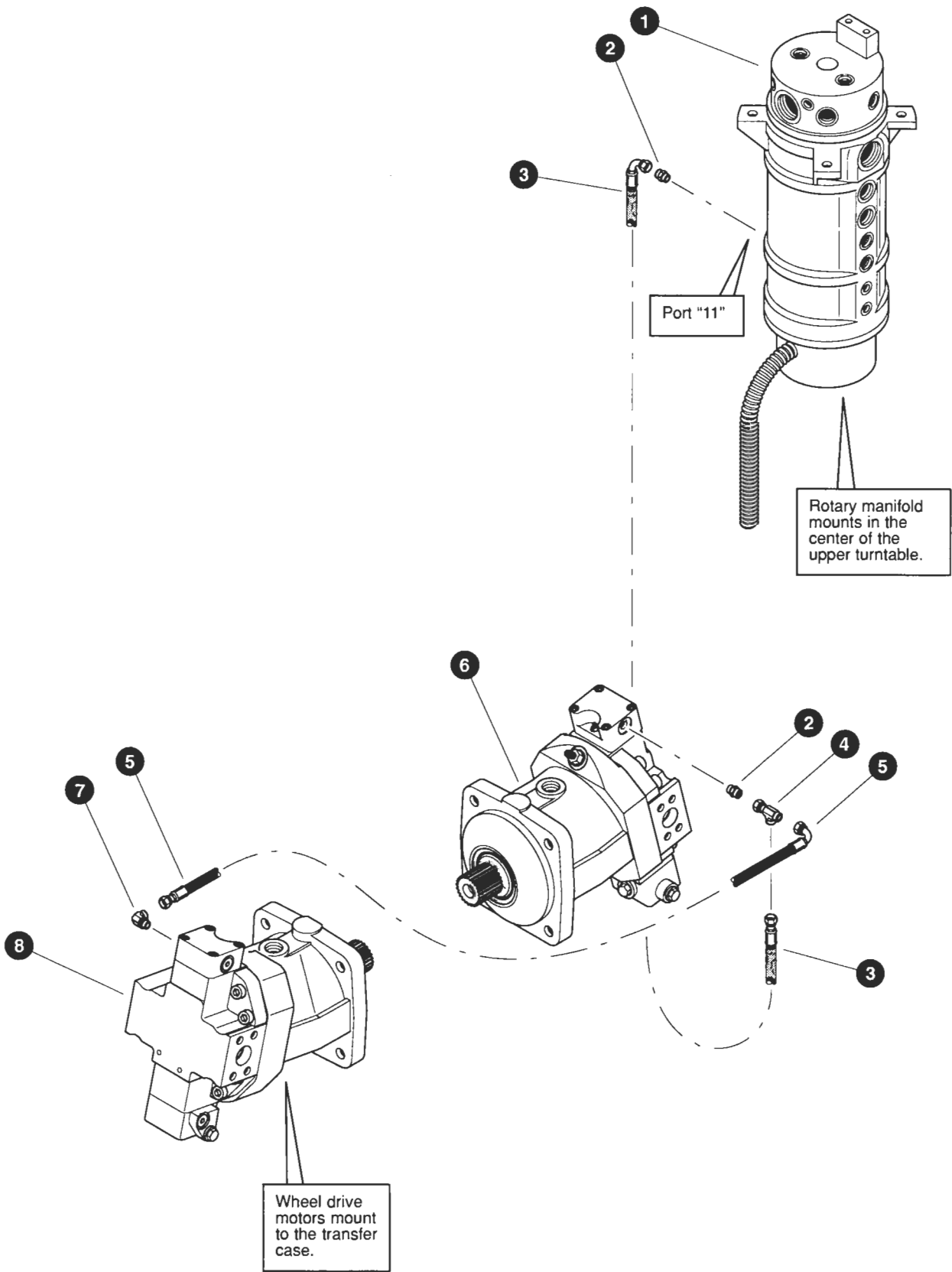


WHEEL DRIVE MOTOR MAX DISPLACEMENT LOCK LINE

(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 (Pilot pressure manifold port "V2" to rotary manifold upper port "11")	
4	REF.	1	✓	PILOT PRESSURE MANIFOLD	D.2.4
5	15133	1		ELBOW, 90° - FF1868T-0406S	

✓ See referenced page for component or assembly breakdown.



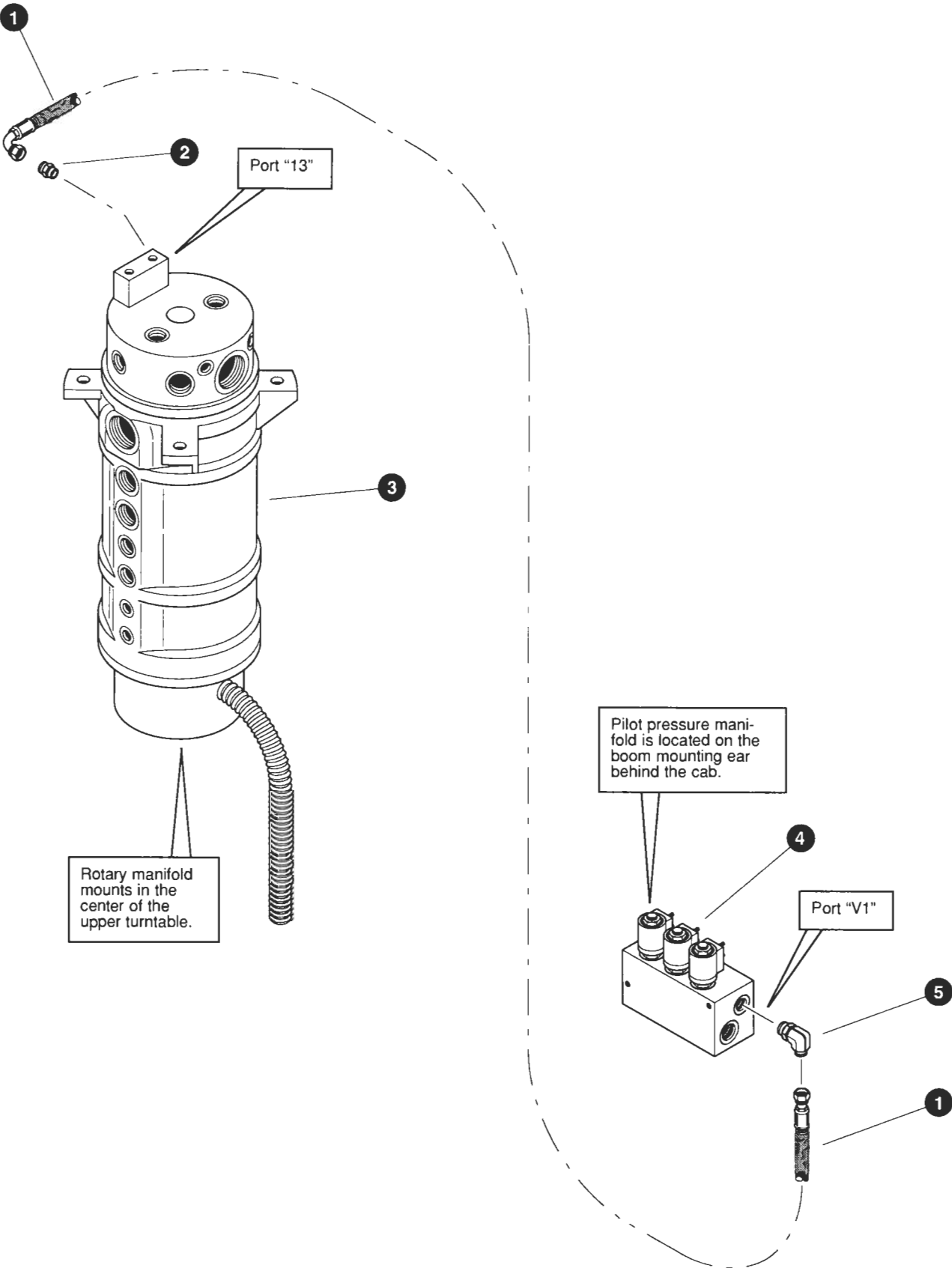
Parts 00954 12/04/98
18.75

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 (Rotary manifold lower port "11" to front wheel drive motor tee)(Used on machines PDN# 062FWD and above)	
	20461	1		HOSE ASSEMBLY - 2071-04-040S-0409 (Rotary manifold lower port "11" to front wheel drive motor tee)(Used on machines PDN# 061FWD and below)	
4	15176	1		TEE - FF2114T-0404S	
5	20981	1		HOSE ASSEMBLY - 2032-04-040S-0409 (Front wheel drive motor tee to rear wheel drive motor)(Used on machines with Superior transfer case, PDN# 053FWD and above)	
	18873	1		HOSE ASSEMBLY - 2036-04-040S-0409 (Front wheel drive motor tee to rear wheel drive motor)(Used on machines with Funk transfer case, PDN# 052FWD and below)	
6	REF.	1	✓	WHEEL DRIVE MOTOR	C.3.22
7	15133	1		ELBOW, 90° - FF1868T-0406S	

✓ See referenced page for component or assembly breakdown.

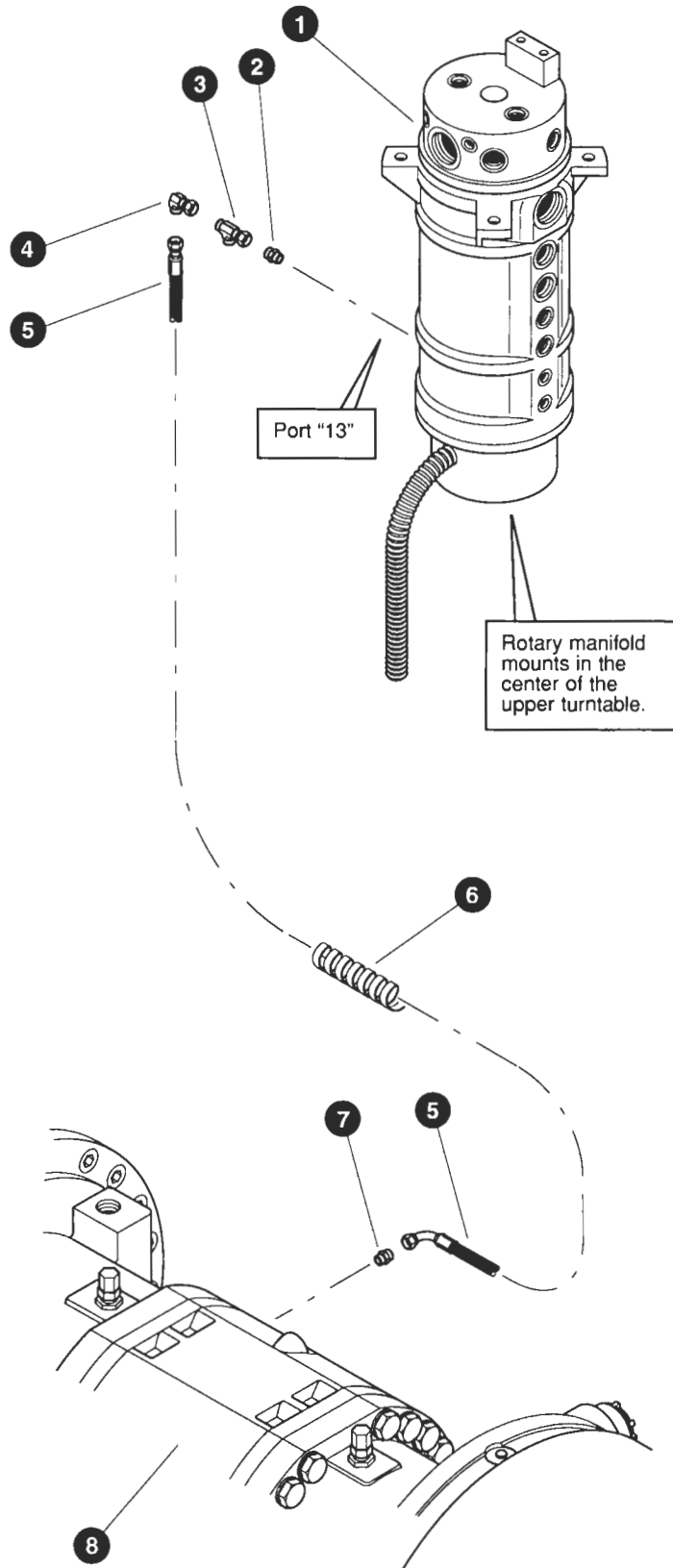


DIFFERENTIAL LOCK LINES

(Pilot Pressure Manifold To Upper Rotary Manifold)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20176	1		HOSE ASSEMBLY - 2062-04-040S-0409-W (Pilot pressure manifold port "V1" to rotary manifold upper port "13")	
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.



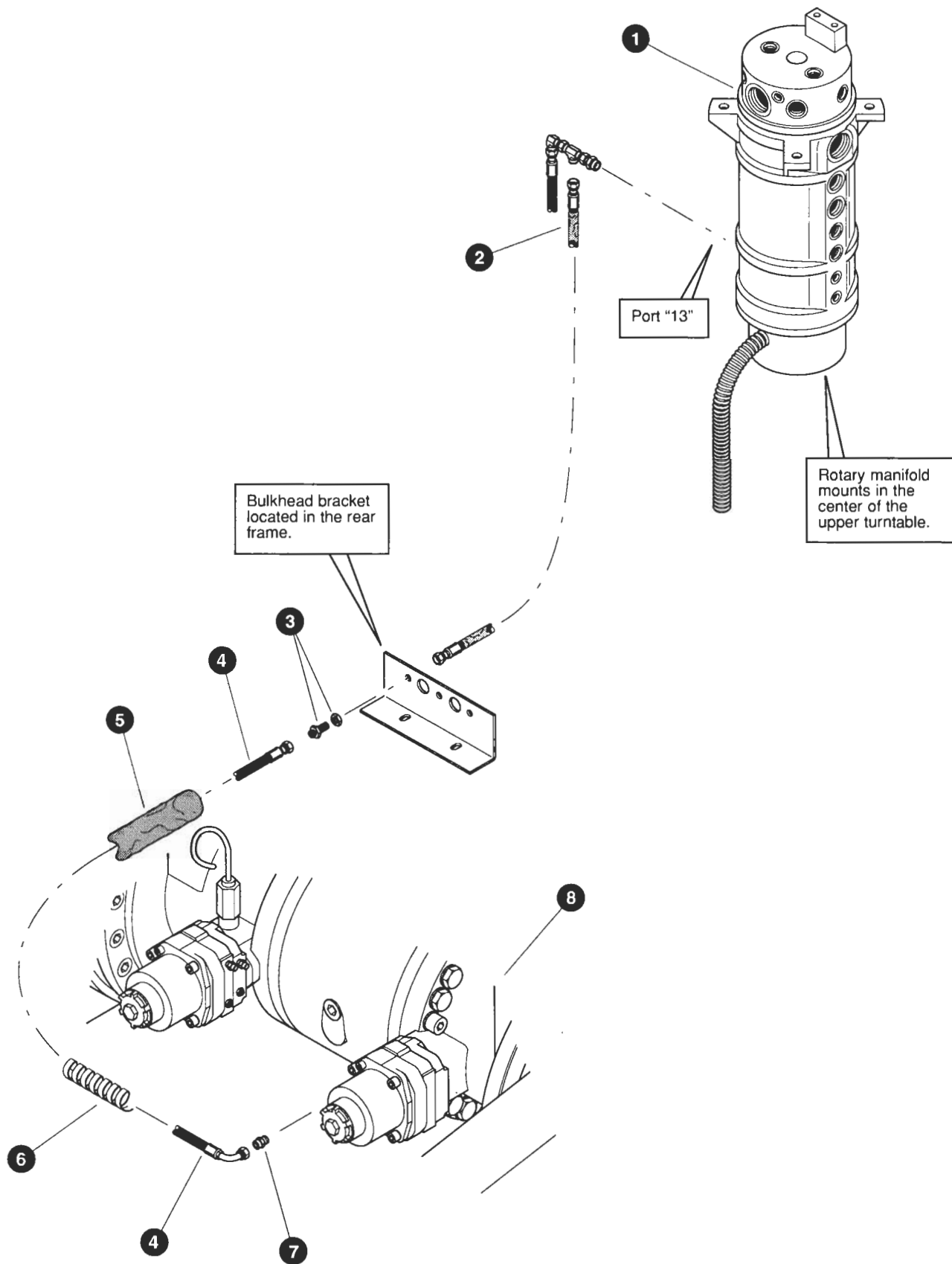
DIFFERENTIAL LOCK LINES

(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 (Rotary manifold lower port "13" tee to front axle differential lock port)	
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 meters.



Parts 00957 12/04/98
18.75

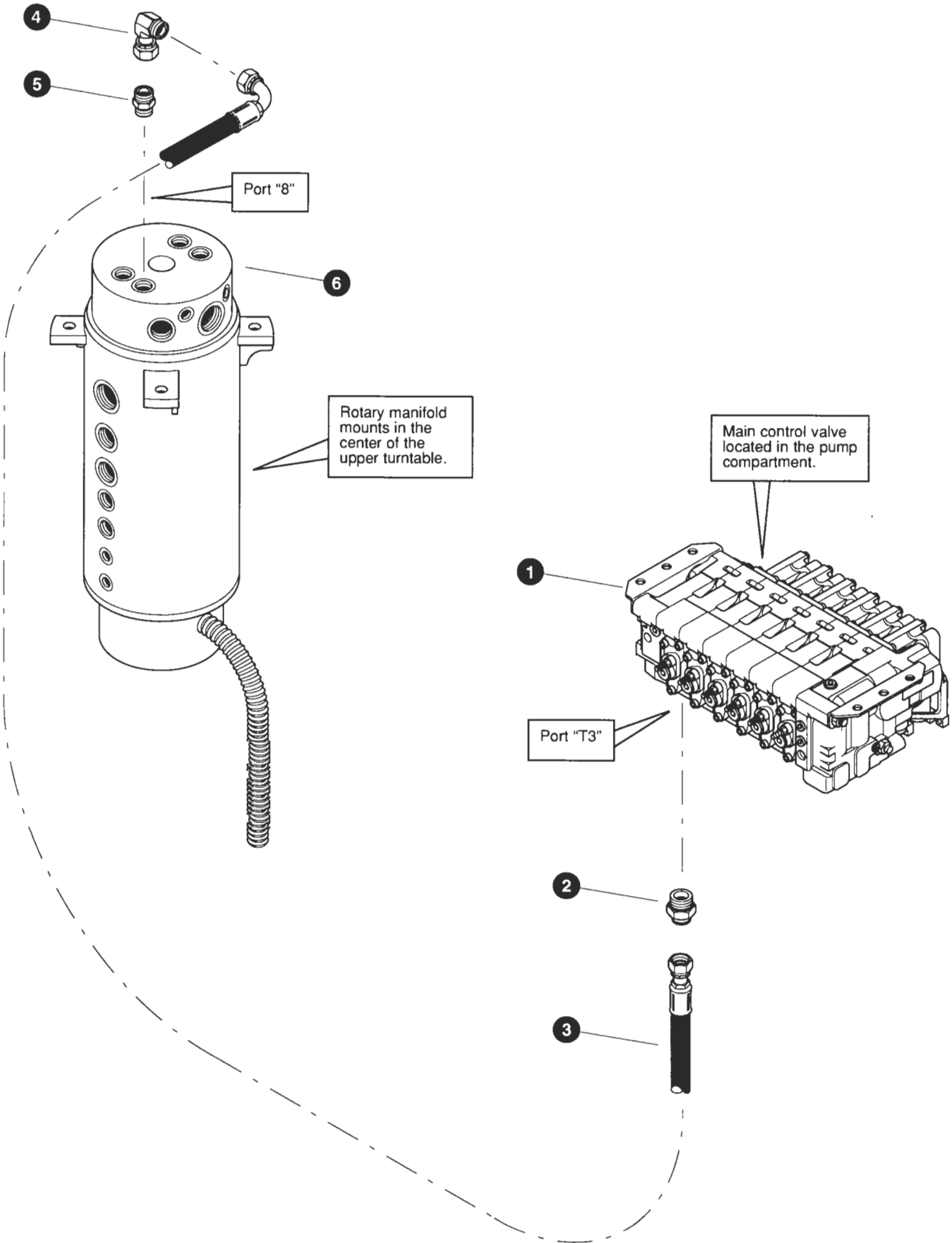
DIFFERENTIAL LOCK LINES

(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 (Rotary manifold lower port "13" tee to bulkhead bracket left)	
3	18582	1		CONNECTOR, straight bulkhead - FF1994T-0404S	
4	20463	1		HOSE ASSEMBLY - 2137.5-04-040S-0409 (Bulkhead bracket left to rear axle differential lock port)	
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 meters.



Parts 00246 12/16/97
25.00

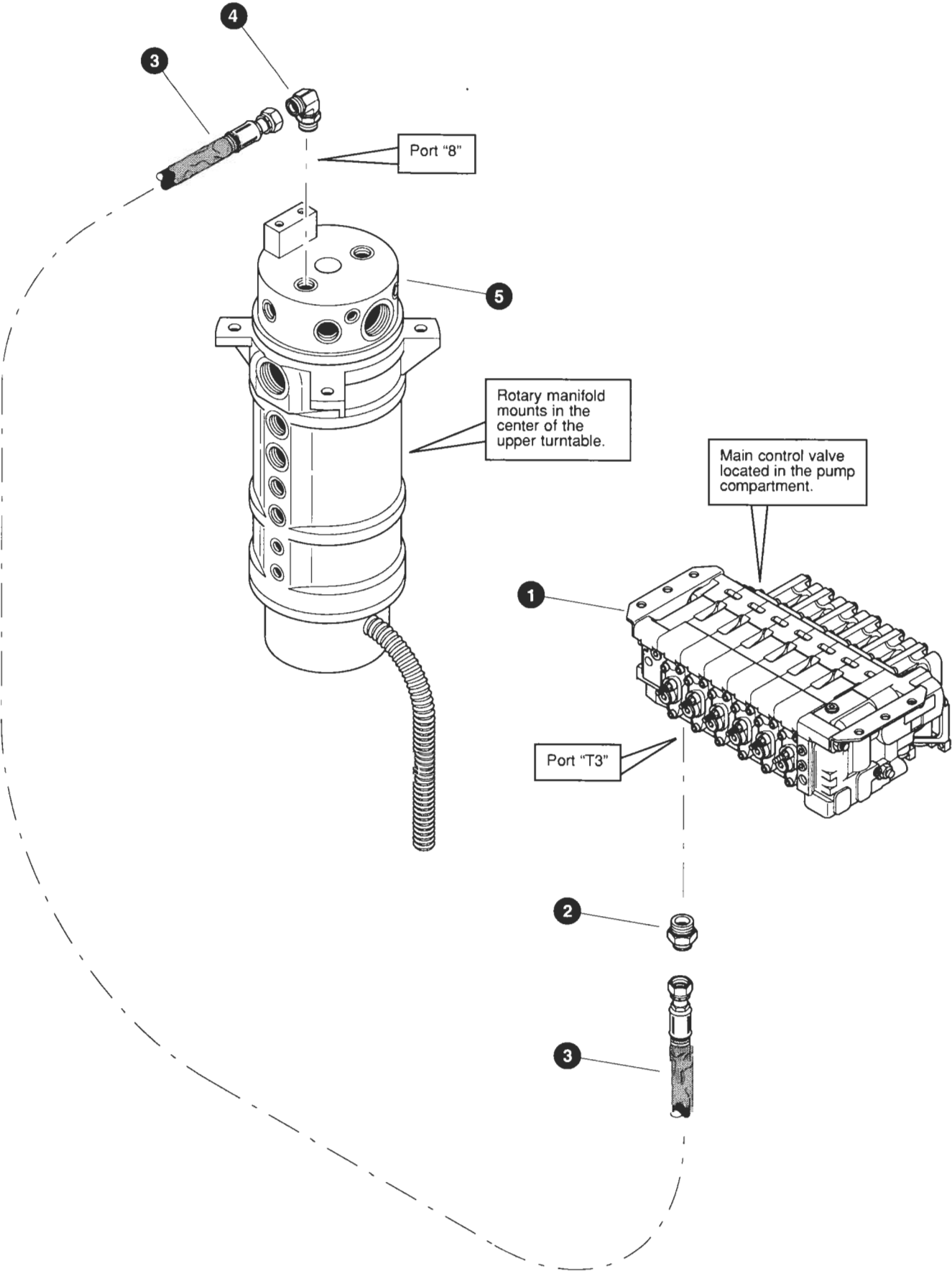
FRAME LOCK CYLINDER LINES

(From Main Control Valve To Upper Rotary Manifold)

(Used on machines PDN# 061FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN CONTROL VALVE	Blue A
2	15238	1		CONNECTOR, straight - FF1852T-0812S	
3	20131	1		HOSE ASSEMBLY - 4044-08-080S-080S (Main control valve port "T3" to rotary manifold upper port "8")	
4	16297	1		ELBOW, 90° swivel - FF2098T-0808S	
5	15117	1		CONNECTOR, straight - FF1852T-0808S	
6	REF.	1	✓	ROTARY MANIFOLD	D.2.2

✓ See referenced page for component or assembly breakdown.



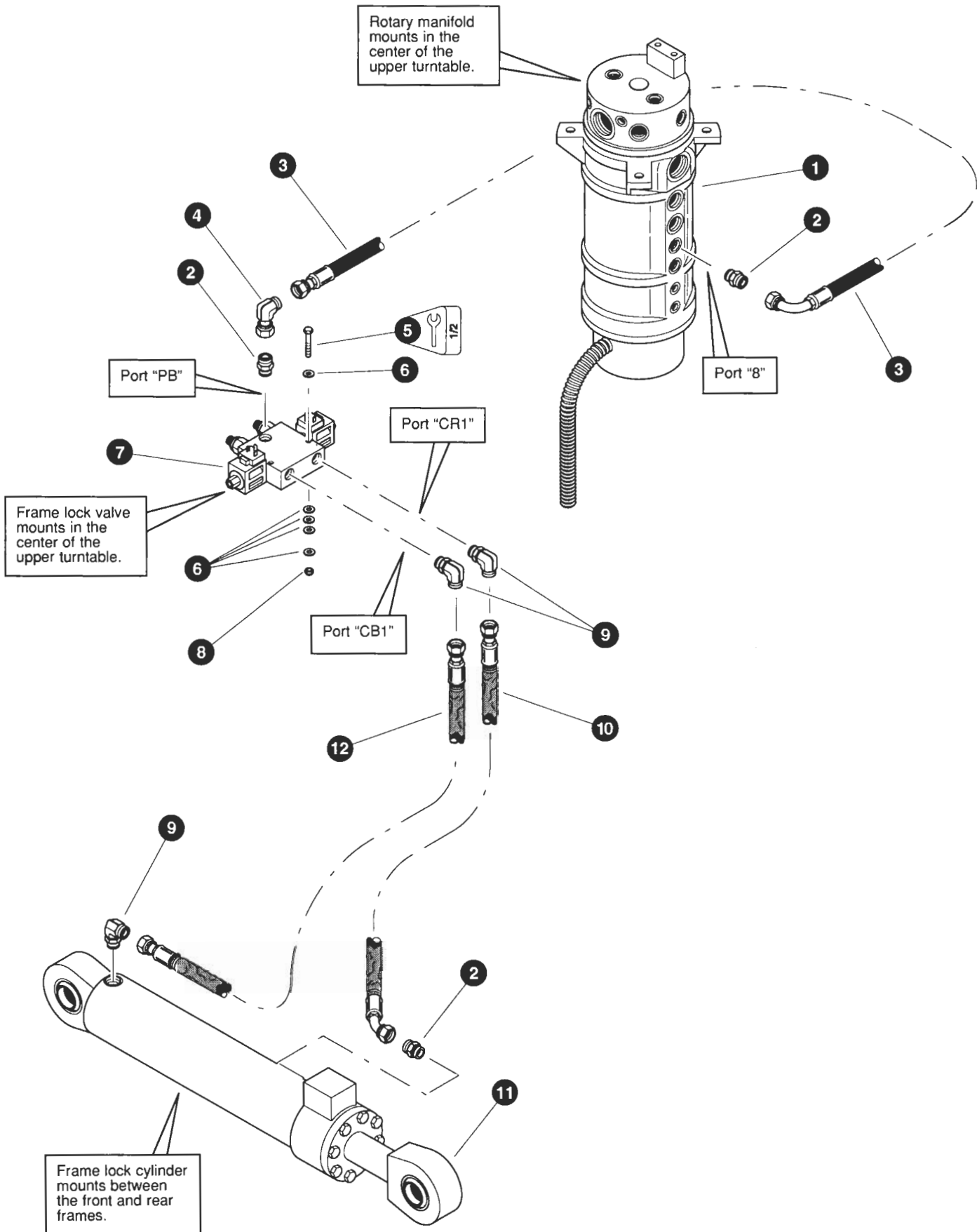
FRAME LOCK CYLINDER LINES

(From Main Control Valve To Upper Rotary Manifold)

(Used on machines PDN# 062FWD and above)

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 (Main control valve port "T3" to rotary manifold upper port "8")	
4	15154	1		ELBOW, 90° - FF2098T-0810S	
5	REF.	1	✓	ROTARY MANIFOLD	D.2.2

✓ See referenced page for component or assembly breakdown.



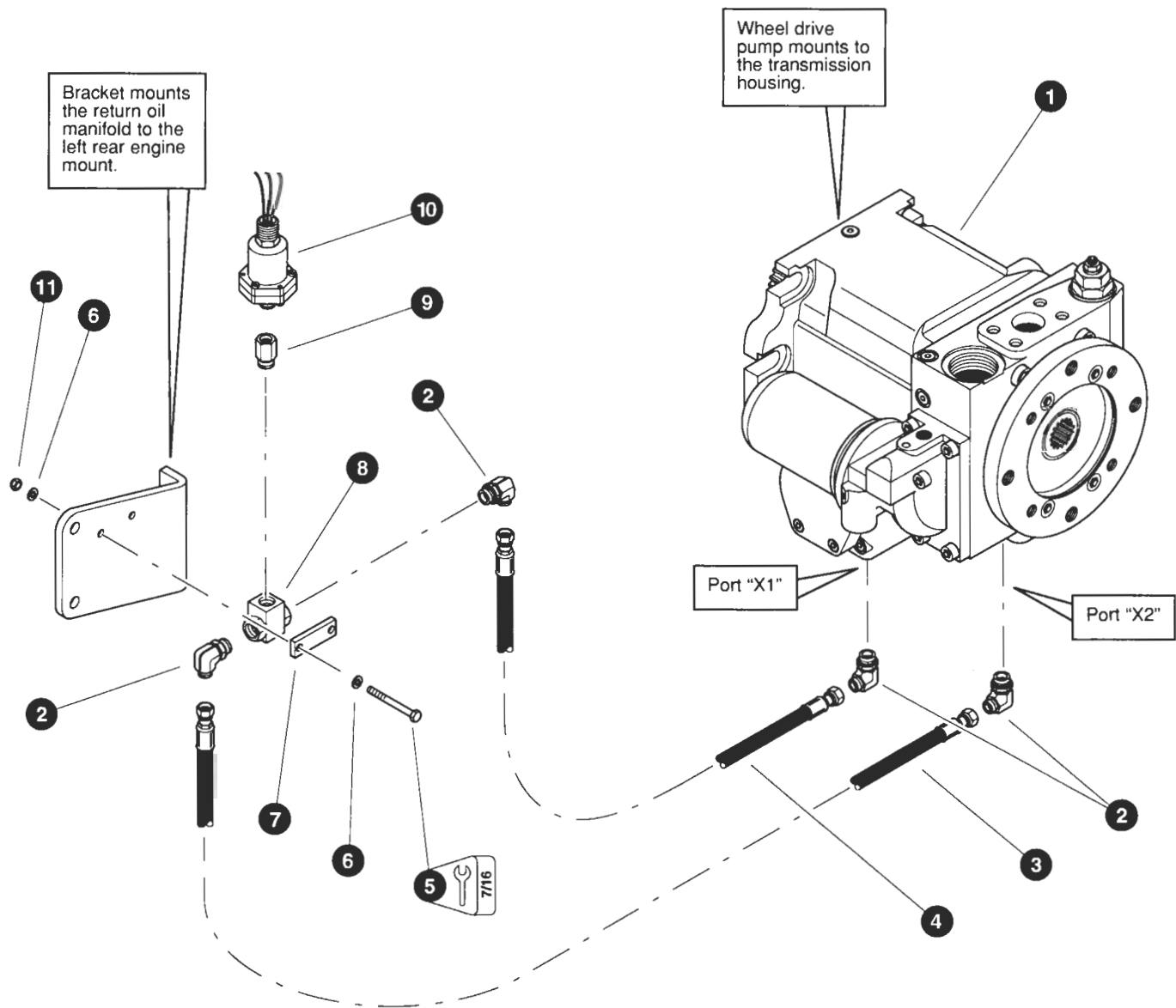
Parts 00959 12/04/98
18.75

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 (Rotary manifold lower port "8" to frame lock valve port "PB")	
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 (Frame lock valve port "CR1" to frame lock cylinder rod port)	
11	REF.	1	✓	FRAME LOCK CYLINDER	E.2.8
12	20136	1		HOSE ASSEMBLY - 4088-08-080S-080S (Frame lock valve port "CB1" to frame lock cylinder base port)	

✓ See referenced page for component or assembly breakdown.



Parts 00462 02/19/98
25.00

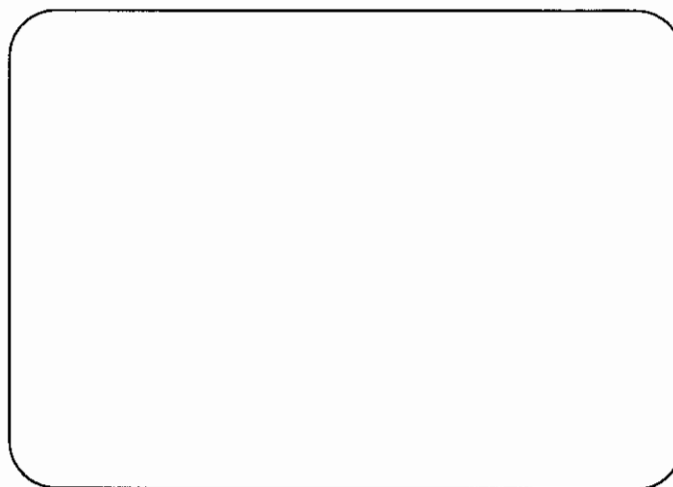
FRAME LOCK VALVE SIGNAL LINE*(Used on machines PDN# 037FWD thru 042FWD)*

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	WHEEL DRIVE PUMP	C.3.2
2	15133	4		ELBOW, 90° - FF1868T-0406S	
3	16534	1		HOSE ASSEMBLY - 2020-04-040S-040S (Wheel drive pump stroking piston port "X2" to lock valve signal shuttle)	
4	15370	1		HOSE ASSEMBLY - 2015-04-040S-040S (Wheel drive pump stroking piston port "X1" to lock valve signal shuttle)	
5	15508	2		BOLT - 1/4" x 2-1/2"	
6	10757	4		WASHER, SAE flat - 1/4"	
7	20658	1		BRACKET, lock valve signal shuttle mount	
8	20265	1		VALVE, shuttle	
9	16018	1		BUSHING, reducer - 6405-6-4	
10	19779	1		SWITCH, pressure	
11	10811	2		NUT, lock - 1/4"	

✓ See referenced page for component or assembly breakdown.

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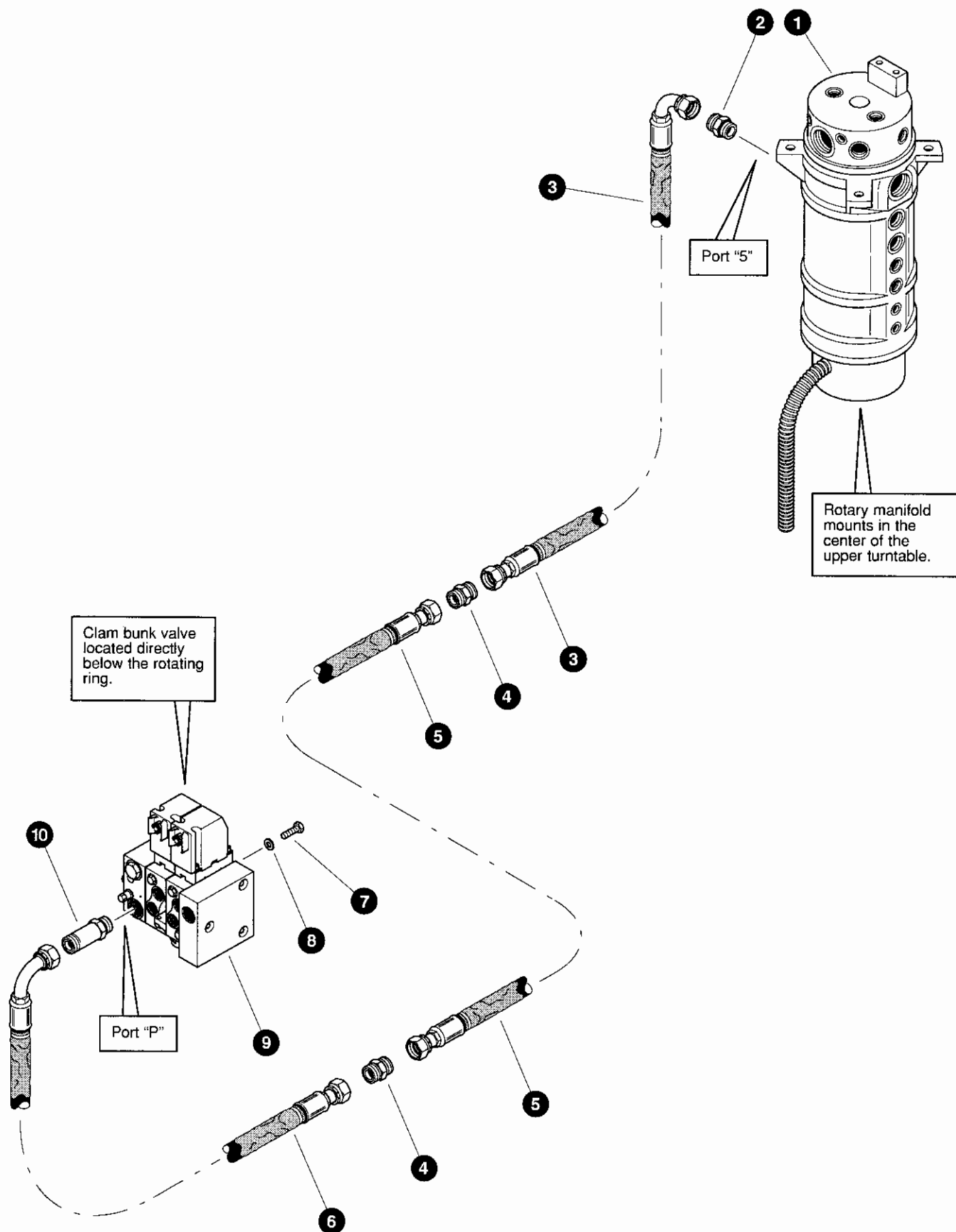
Hydraulic Circuits - Optional Clam Bunk

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 (Implement pump pressure manifold to rotary manifold upper port "5")	
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.



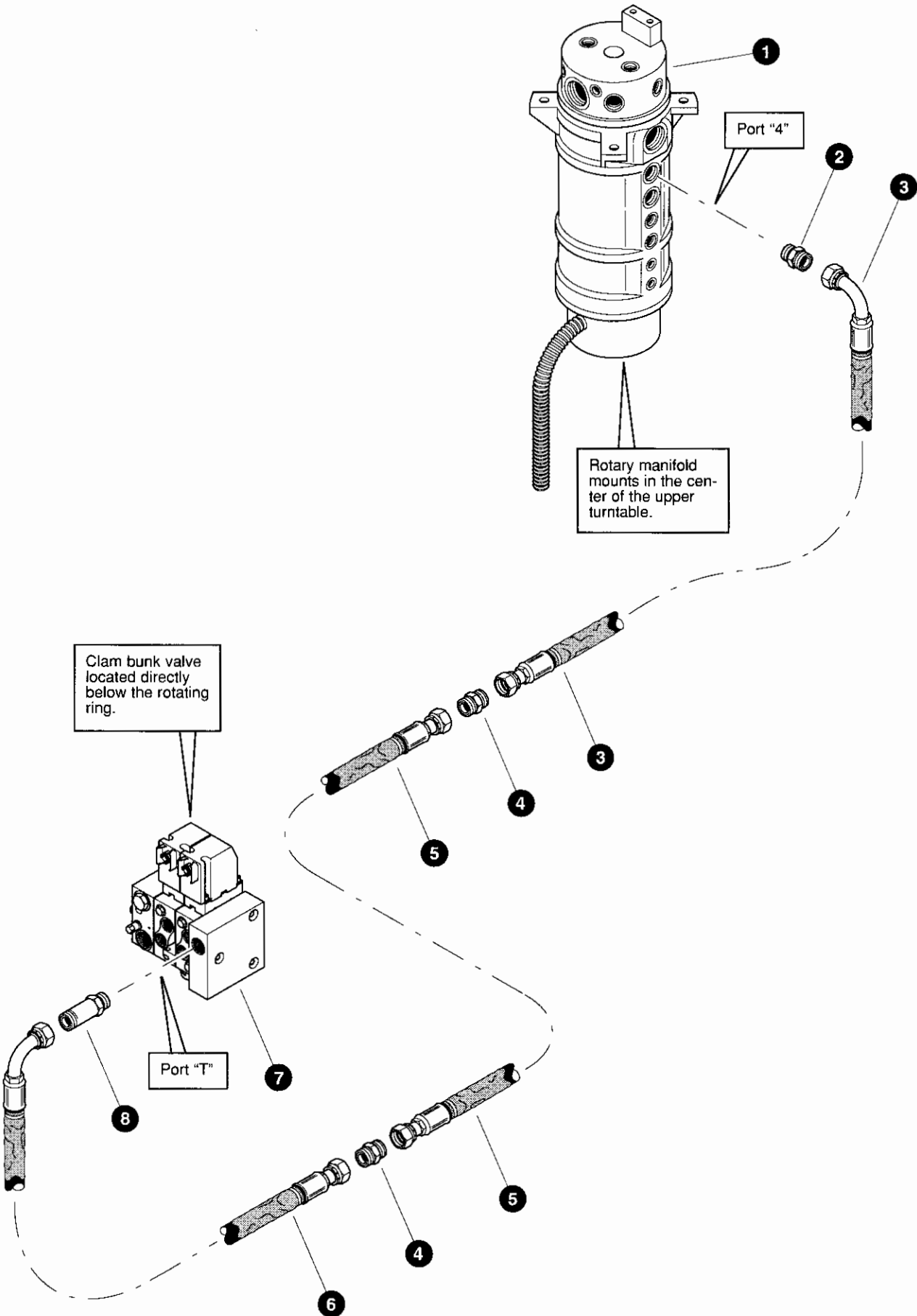
Parts 00963 12/04/98
18.75

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 (Rotary manifold lower port "5" to center frame union)	
4	18084	2		CONNECTOR, straight - FF2000T-1212S	
5	20819	1		HOSE ASSEMBLY - 4085-12-120S-120S (Center frame union to rear frame union)	
6	20397	1		HOSE ASSEMBLY - 4067.5-12-120S-1209 (Rear frame union to clam bunk valve port "P")	
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.

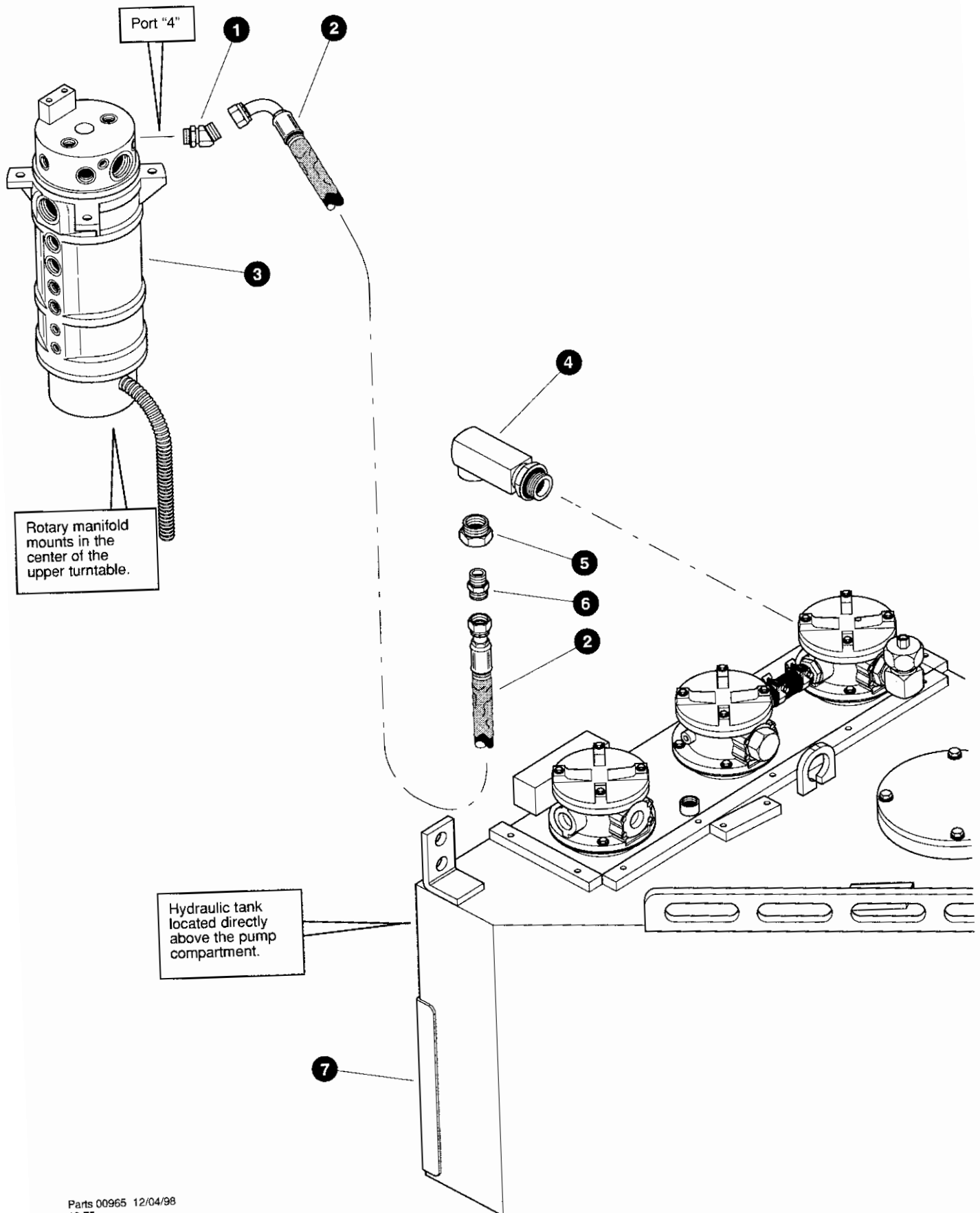


Parts 00964 12/04/98
18.75

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 (Rotary manifold lower port "4" to center frame union)	
4	18084	2		CONNECTOR, straight - FF2000T-1212S	
5	20819	1		HOSE ASSEMBLY - 4085-12-120S-120S (Center frame union to rear frame union)	
6	20398	1		HOSE ASSEMBLY - 4064.5-12-120S-1209 (Rear frame union to clam bunk valve port "T")	
7	REF.	1	✓	CLAM BUNK VALVE	Blue B
8	19092	1		CONNECTOR, straight long - FF1854T-1212S	

✓ See referenced page for component or assembly breakdown.

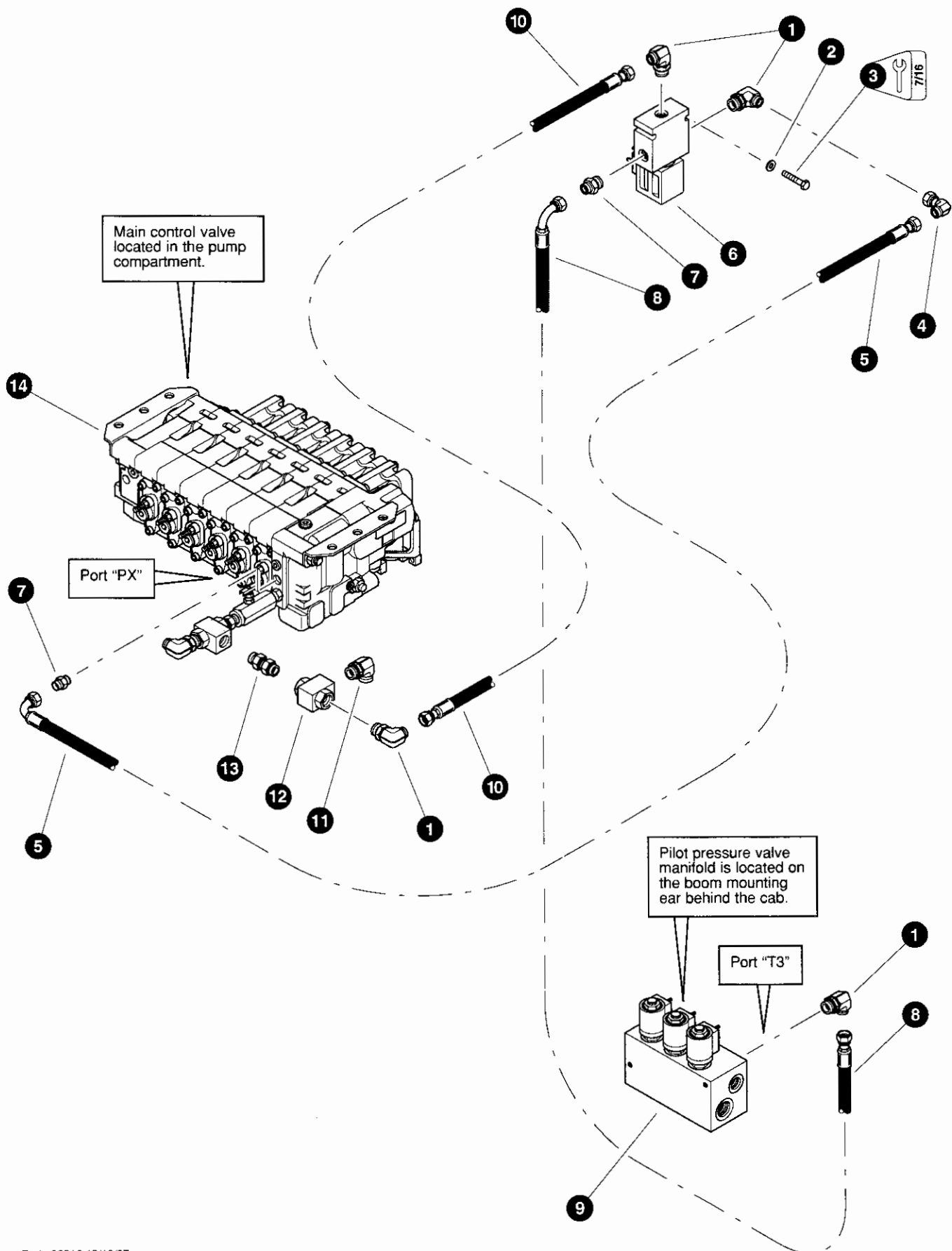


Parts 00965 12/04/98
18.75

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 (Rotary manifold upper port "4" to cab-side return filter)(Used on machines PDN# 062FWD and above)	
	20193	1	HOSE ASSEMBLY - 4080-12-120S-1209-W (Rotary manifold upper port "4" to cab-side return filter)(Used on machines PDN# 061FWD and below)	
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.

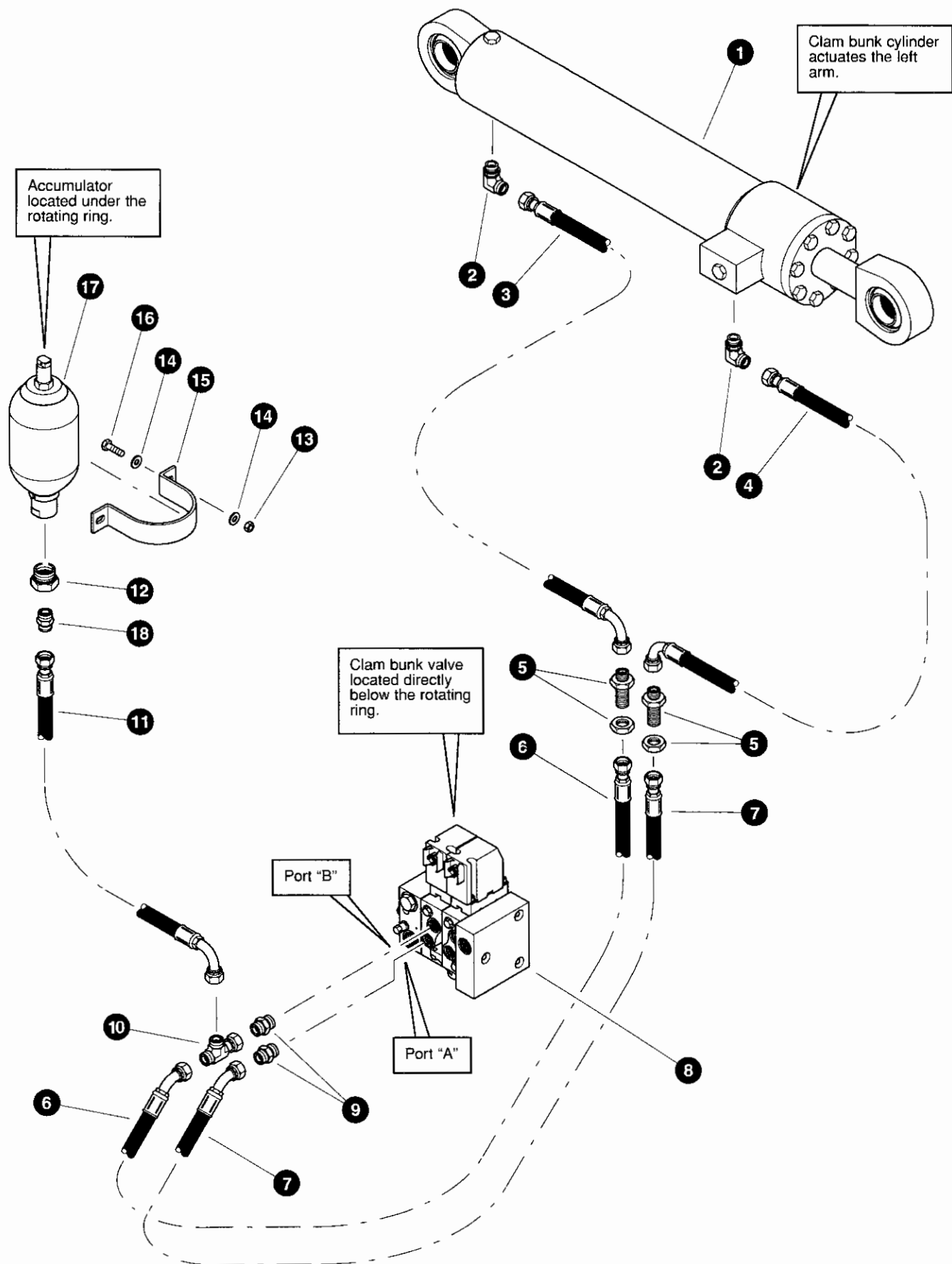


Parts 00310 12/18/97
25.00

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 (Main control valve port "PX" to 3-way valve)	
6	19300	1		VALVE, 3-way	
7	15124	2		CONNECTOR, straight - FF1852T-0406S	
8	15380	1		HOSE ASSEMBLY - 2060-04-040S-0409 (3-way valve to pilot pressure manifold port "T3")	
9	REF.	1	✓	PILOT PRESSURE MANIFOLD	D.1.4
10	15369	1		HOSE ASSEMBLY - 2012-04-040S-0409 (3-way valve to load sense shuttle)	
11	16296	1		ELBOW, 90° - FF1868T-0606S (New connection point for load sense line to the implement pump)	
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 00260 12/18/97
18.75

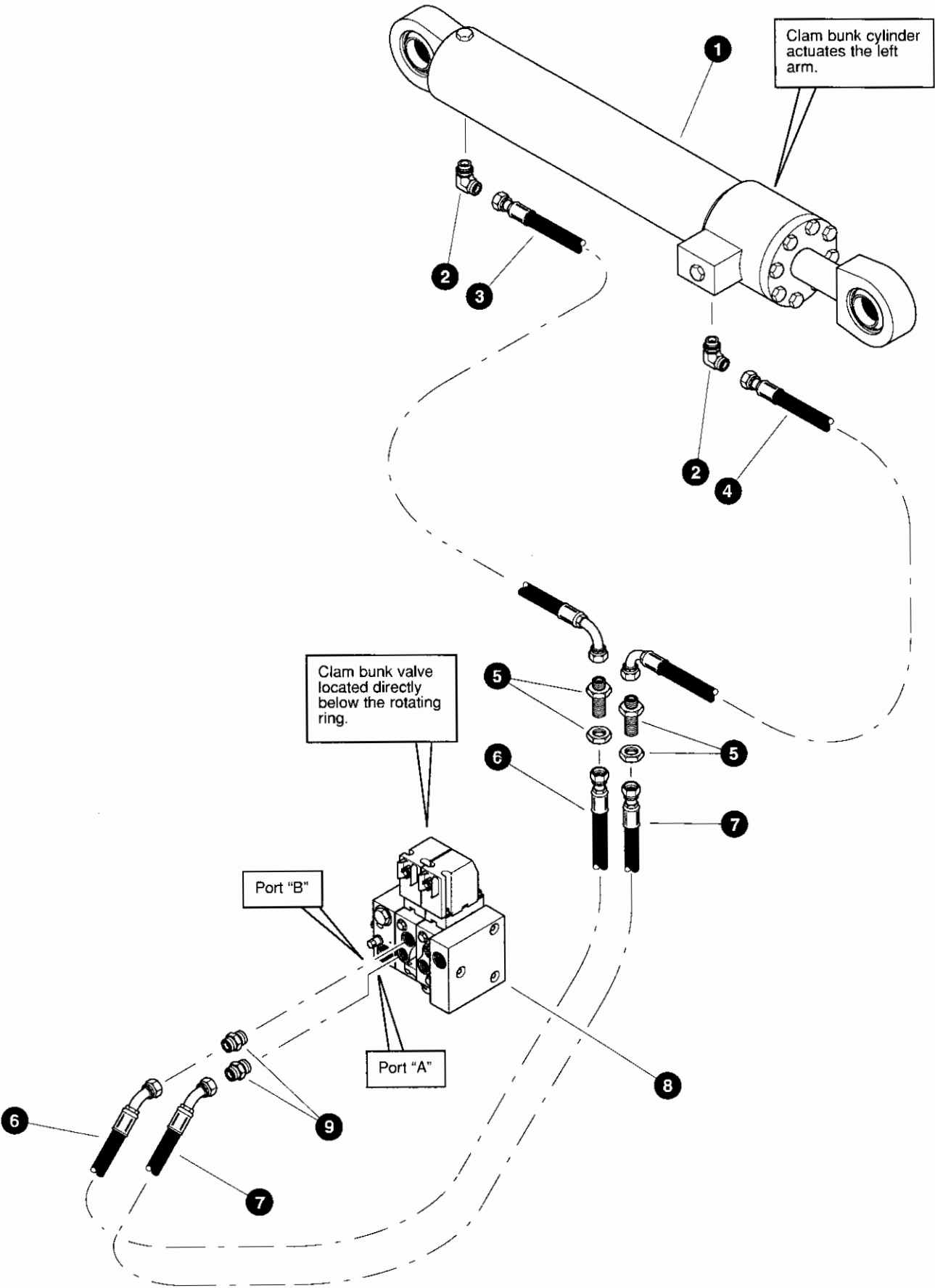
CLAM BUNK ARM LINES

(Clam Bunk Valve To Left Clam Bunk Cylinder)

(Used on machines PDN# 042FWD and below)

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 (Clam bunk cylinder base port to left front bulkhead fitting)	
4	20195	1	HOSE ASSEMBLY - 4031-08-080S-0809 (Clam bunk cylinder rod port to right front bulkhead fitting)	
5	20196	2	CONNECTOR, straight bulkhead - FF199T-0808S	
6	20113	1	HOSE ASSEMBLY - 4047-08-080S-0804 (Clam bunk left valve section port "B" to left front bulkhead fitting)	
7	20198	1	HOSE ASSEMBLY - 4045-08-080S-0804 (Clam bunk left valve section port "A" to right front bulkhead fitting)	
8	REF.	1	✓ CLAM BUNK VALVE	Blue B
9	15115	2	CONNECTOR, straight - FF1852T-0810S	
10	15433	1	TEE - FF2114T-0808S	
11	20195	1	HOSE ASSEMBLY - 4031-08-080S-0809 (Clam bunk left valve section port "B" tee to accumulator)	
12	16719	1	BUSHING, reducer - 6410-16-8	
13	10813	2	NUT, lock - 3/8"	
14	15528	4	WASHER, SAE flat - 3/8"	
15	13176	1	BRACKET, accumulator mounting	
16	10402	2	BOLT - 3/8" x 1-1/4"	
17	18862	1	ACCUMULATOR	
18	15117	1	CONNECTOR, straight - FF1852T-0808S	

✓ See referenced page for component or assembly breakdown.



Parts 00363 12/18/97
18.75

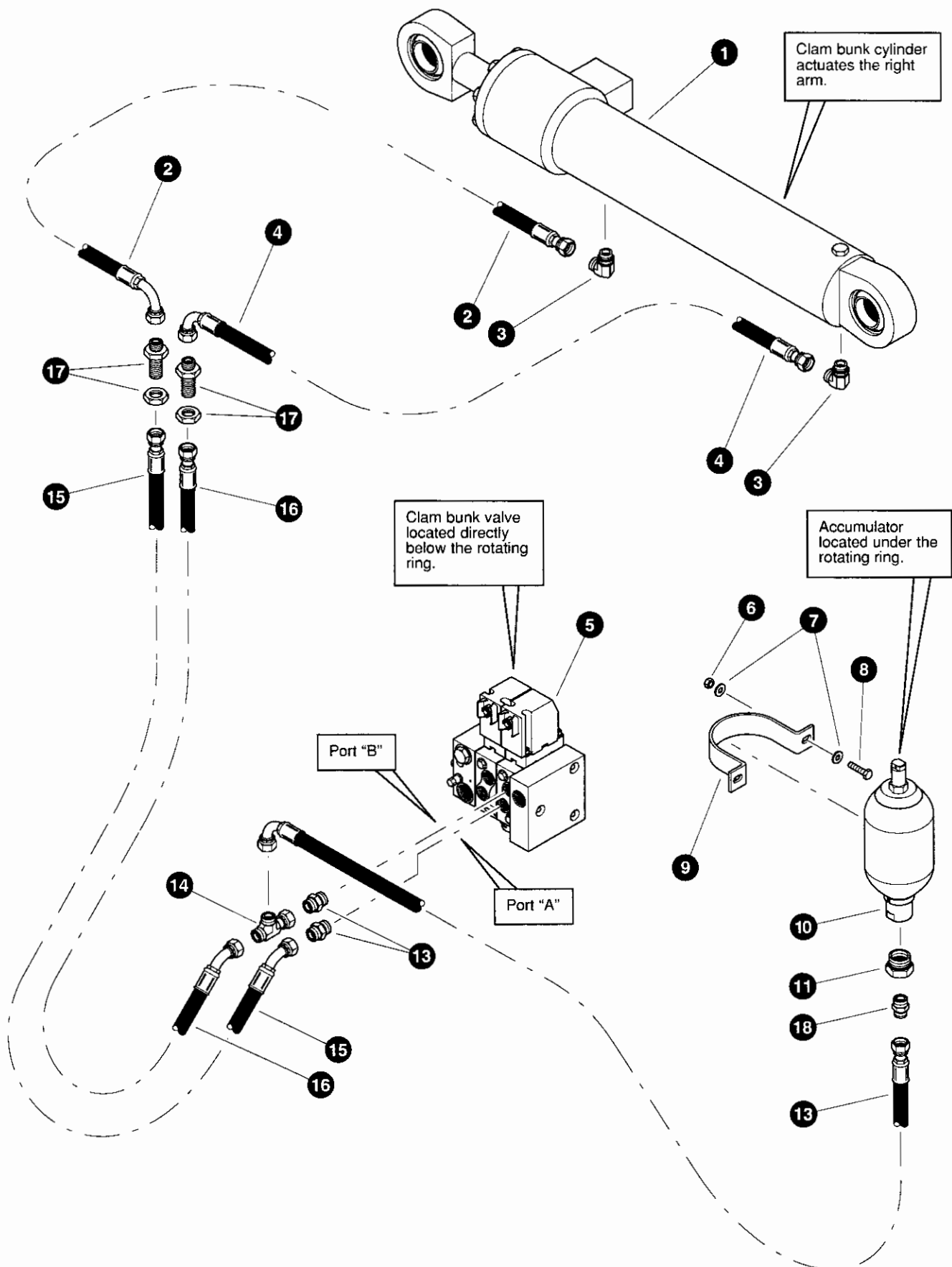
CLAM BUNK ARM LINES

(Clam Bunk Valve To Left Clam Bunk Cylinder)

(Used on machines PDN# 043FWD and above)

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 (Clam bunk cylinder base port to left front bulkhead fitting)	
4	20195	1		HOSE ASSEMBLY - 4031-08-080S-0809 (Clam bunk cylinder rod port to right front bulkhead fitting)	
5	20196	2		CONNECTOR, straight bulkhead - FF199T-0808S	
6	20113	1		HOSE ASSEMBLY - 4047-08-080S-0804 (Clam bunk left valve section port "B" to left front bulkhead fitting)	
7	20198	1		HOSE ASSEMBLY - 4045-08-080S-0804 (Clam bunk left valve section port "A" to right front bulkhead fitting)	
8	REF.	1	✓	CLAM BUNK VALVE	Blue B
9	15115	2		CONNECTOR, straight - FF1852T-0810S	

✓ See referenced page for component or assembly breakdown.



Parts 00259 12/18/97
18.75

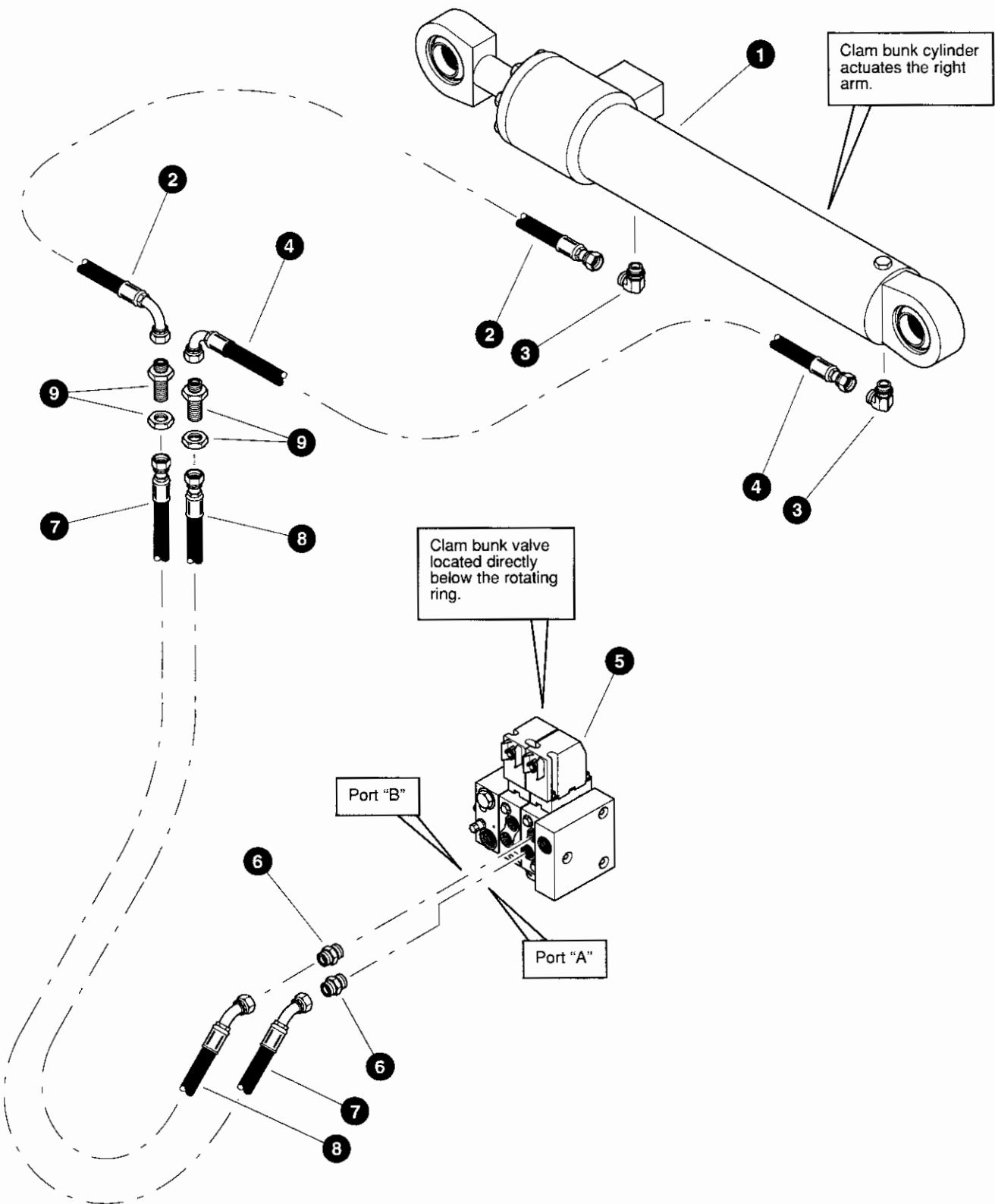
CLAM BUNK ARM LINES

(Clam Bunk Valve To Right Clam Bunk Cylinder)

(Used on machines PDN# 042FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	CLAM BUNK CYLINDER	E.2.10
2	20195	1		HOSE ASSEMBLY - 4031-08-080S-0809 (Clam bunk cylinder rod port to left rear bulkhead fitting)	
3	16360	2		ELBOW, 90° - FF1868T-0808S	
4	17483	1		HOSE ASSEMBLY - 4019-08-080S-0809 (Clam bunk cylinder base port to right rear bulkhead fitting)	
5	REF.	1	✓	CLAM BUNK VALVE	Blue B
6	10813	2		NUT, lock - 3/8"	
7	15528	4		WASHER, SAE flat - 3/8"	
8	10402	2		BOLT - 3/8" x 1-1/4"	
9	13176	1		BRACKET, accumulator mounting	
10	18862	1		ACCUMULATOR	
11	16719	1		BUSHING, reducer - 6410-16-8	
12	15115	2		CONNECTOR, straight - FF1852T-0810S	
13	20195	1		HOSE ASSEMBLY - 4031-08-080S-0809 (Clam bunk right valve section port "B" tee to accumulator)	
14	15433	1		TEE - FF2114T-0808S	
15	20199	1		HOSE ASSEMBLY - 4046-08-080S-0804 (Clam bunk right valve section port "A" to left rear bulkhead fitting)	
16	20201	1		HOSE ASSEMBLY - 4048-08-080S-0804 (Clam bunk right valve section port "B" to right rear bulkhead fitting)	
17	20196	2		CONNECTOR, straight bulkhead - FF199T-0808S	
18	15117	1		CONNECTOR, straight - FF1852T-0808S	

✓ See referenced page for component or assembly breakdown.



CLAM BUNK ARM LINES

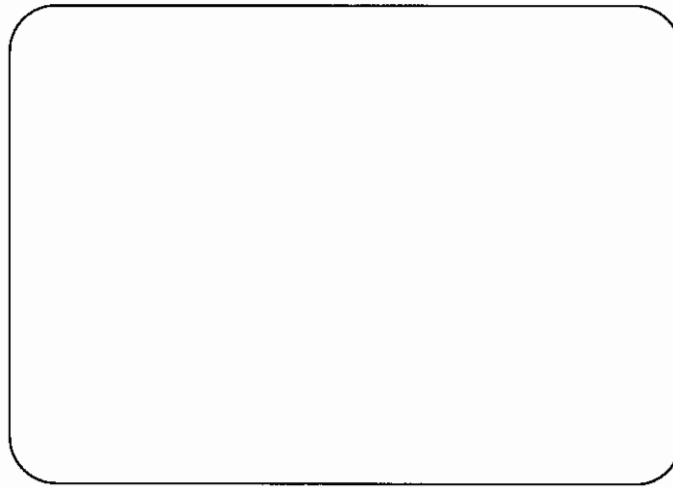
(Clam Bunk Valve To Right Clam Bunk Cylinder)

(Used on machines PDN# 043FWD and above)

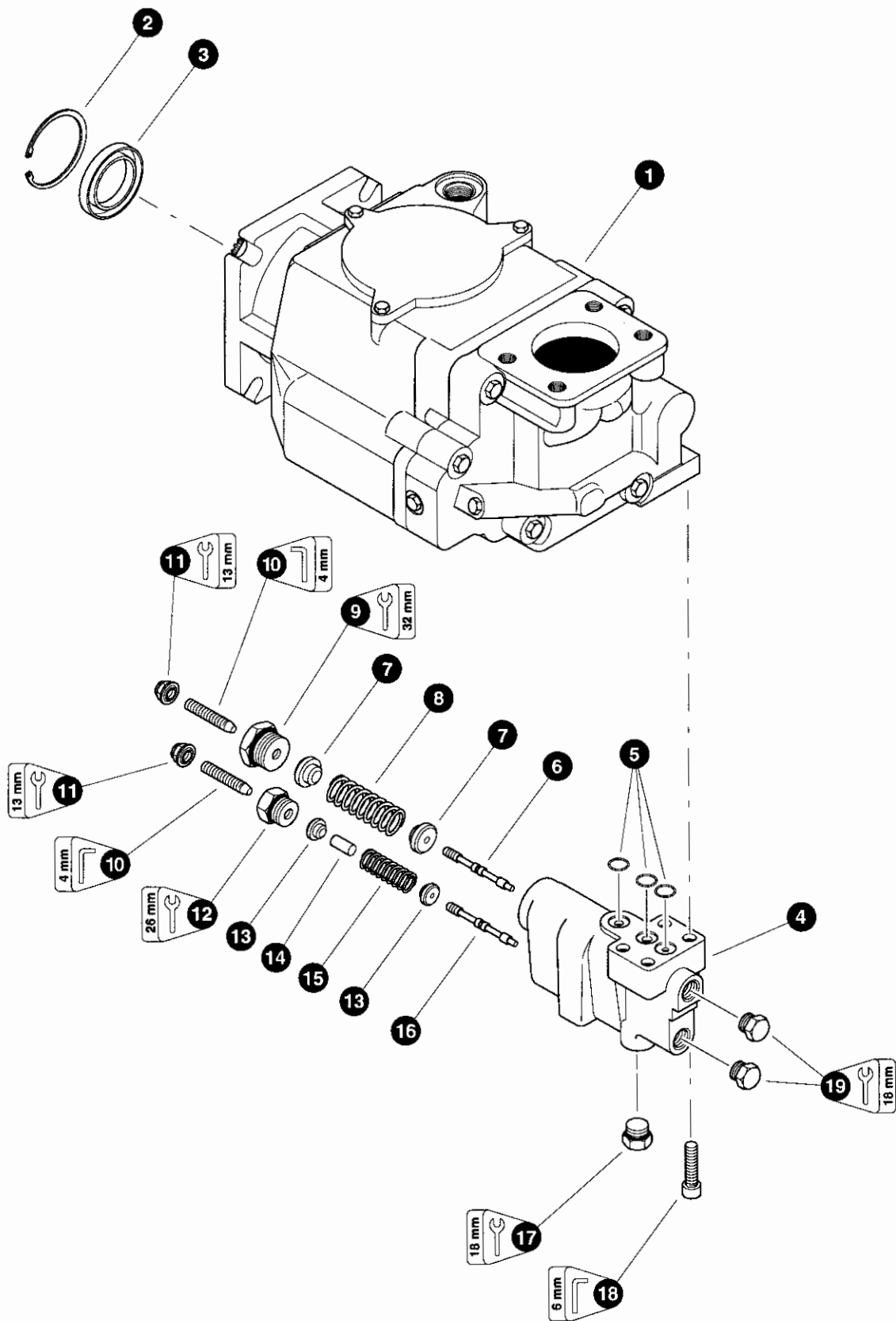
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	CLAM BUNK CYLINDER	E.2.10
2	16360	2		ELBOW, 90° - FF1868T-0808S	
3	20195	1		HOSE ASSEMBLY - 4031-08-080S-0809 (Clam bunk cylinder rod port to left rear bulkhead fitting)	
4	17483	1		HOSE ASSEMBLY - 4019-08-080S-0809 (Clam bunk cylinder base port to right rear bulkhead fitting)	
5	REF.	1	✓	CLAM BUNK VALVE	Blue B
6	15115	2		CONNECTOR, straight - FF1852T-0810S	
7	20199	1		HOSE ASSEMBLY - 4046-08-080S-0804 (Clam bunk right valve section port "A" to left rear bulkhead fitting)	
8	20201	1		HOSE ASSEMBLY - 4048-08-080S-0804 (Clam bunk right valve section port "B" to right rear bulkhead fitting)	
9	20196	2		CONNECTOR, straight bulkhead - FF199T-0808S	

✓ See referenced page for component or assembly breakdown.

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Hydraulic Pumps & Motors - Loader Implements



Parts 00393 01/22/98
37.50

LOADER IMPLEMENT PUMP (Vickers PVH98)

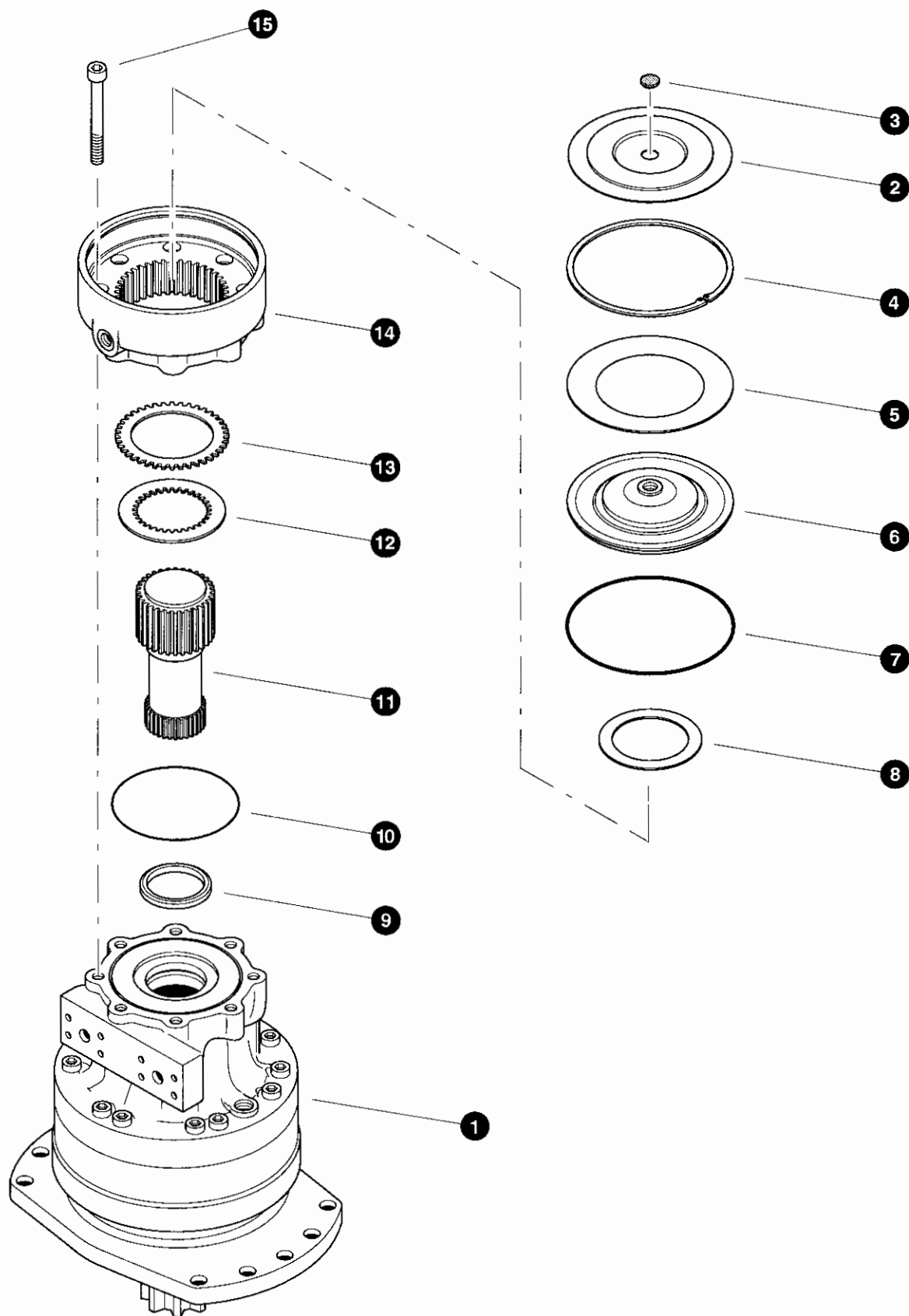
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	18748	1	☐	PUMP, loader implement - Vickers PVH98	
2	17319	1		RING, retaining	
3	15870	1	★	SEAL, shaft	
4	17082	1	☐	COMPENSATOR	
5	17189	3	★	O-RING (white)	
6	18197	1		SPOOL, pressure limiter	
7	18201	2		GUIDE, spring	
8	18200	1		SPRING, control	
9	18195	1	☐	PLUG	
	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 (Complete pump)	

☐ 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)

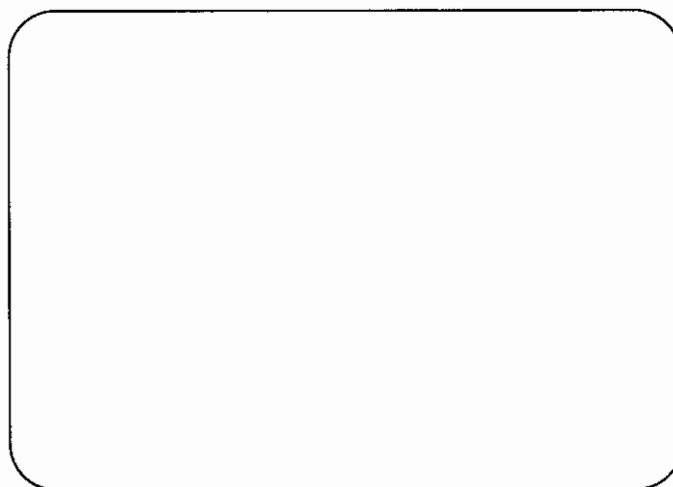
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19201	1	□	MOTOR, swing - Poclain	
2	18557	1		COVER, brake piston	
3	20759	1		GROMMET	
4	20781	1		RING, snap	
5	20782	1		WASHER, bevel	
6	20783	1	Ⓒ	PISTON, brake (Requires special tool for removal)	
7	17781	1		O-RING, brake piston	
8	20784	AR		SHIM KIT, brake disc	
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.

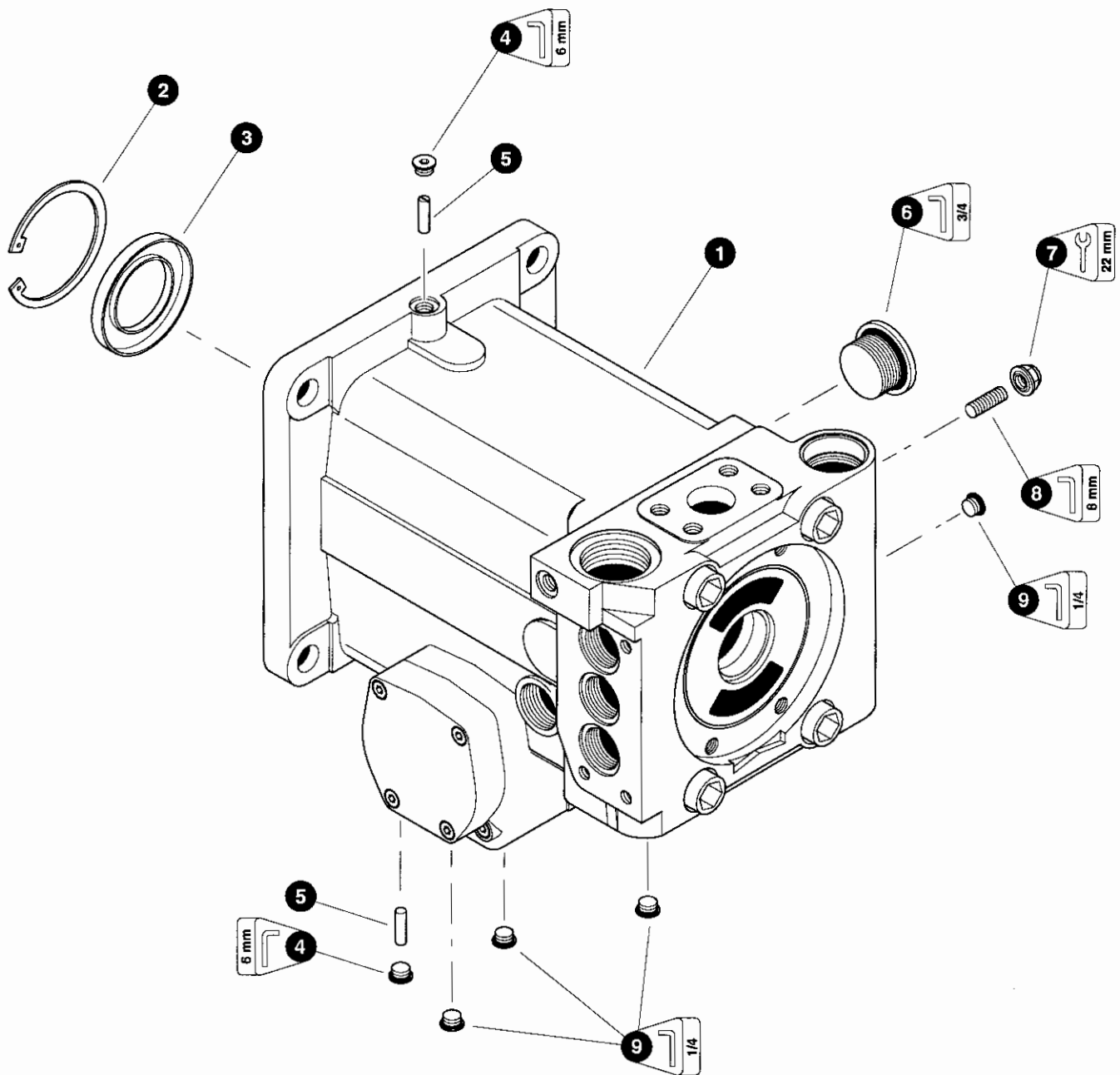
Note:

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.

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Hydraulic Pumps & Motors - Wheel Drive



Parts 00412 01/30/98
37.50

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

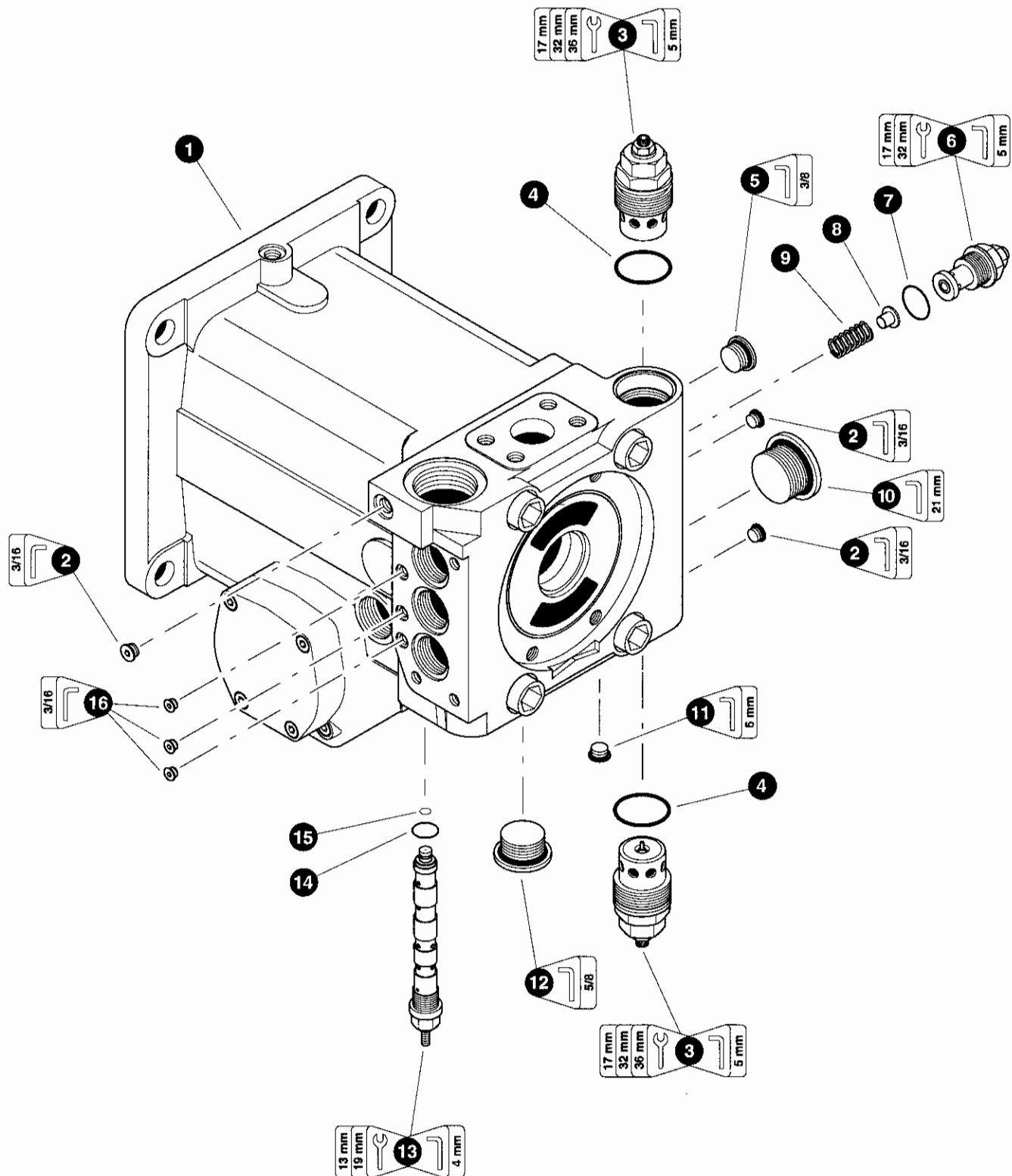
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20429	1	□	PUMP, wheel drive - AA4VG180	
2	20430	1		RING, snap	
3	20431	1	★	SEAL, shaft	
4	20317	2	★	PLUG - 12mm-1.5P	
5	20433	2		PIN, cradle	
6	18950	1	□	PLUG - 6408-HHP-20	
	20325	1	★	O-RING, ORB - #16	
7	20434	1	★	NUT, seal - 14mm-1.5P	
8	20435	1		PIN, threaded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



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:

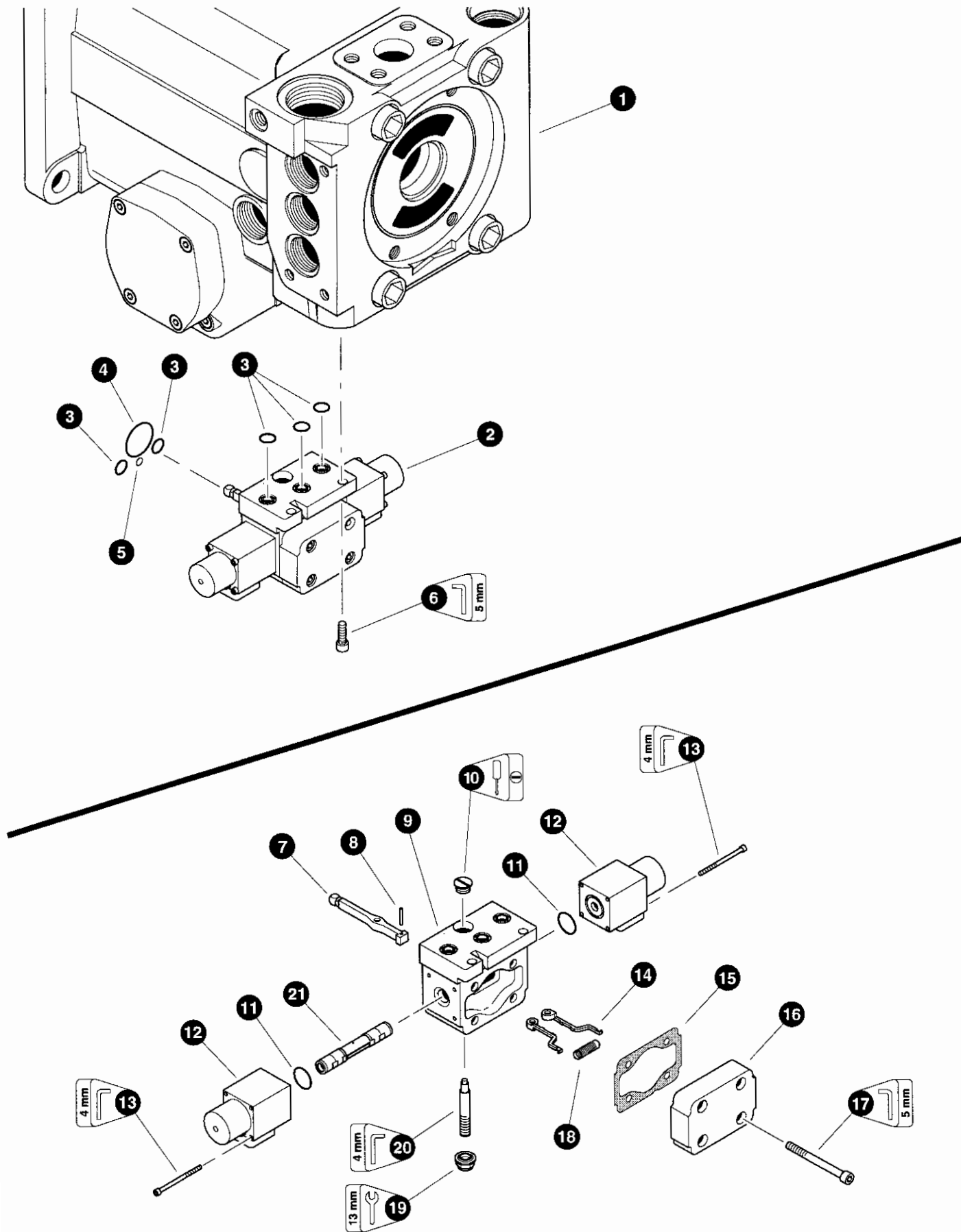
Due to warranty policy restrictions imposed by Timbco's component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.

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:

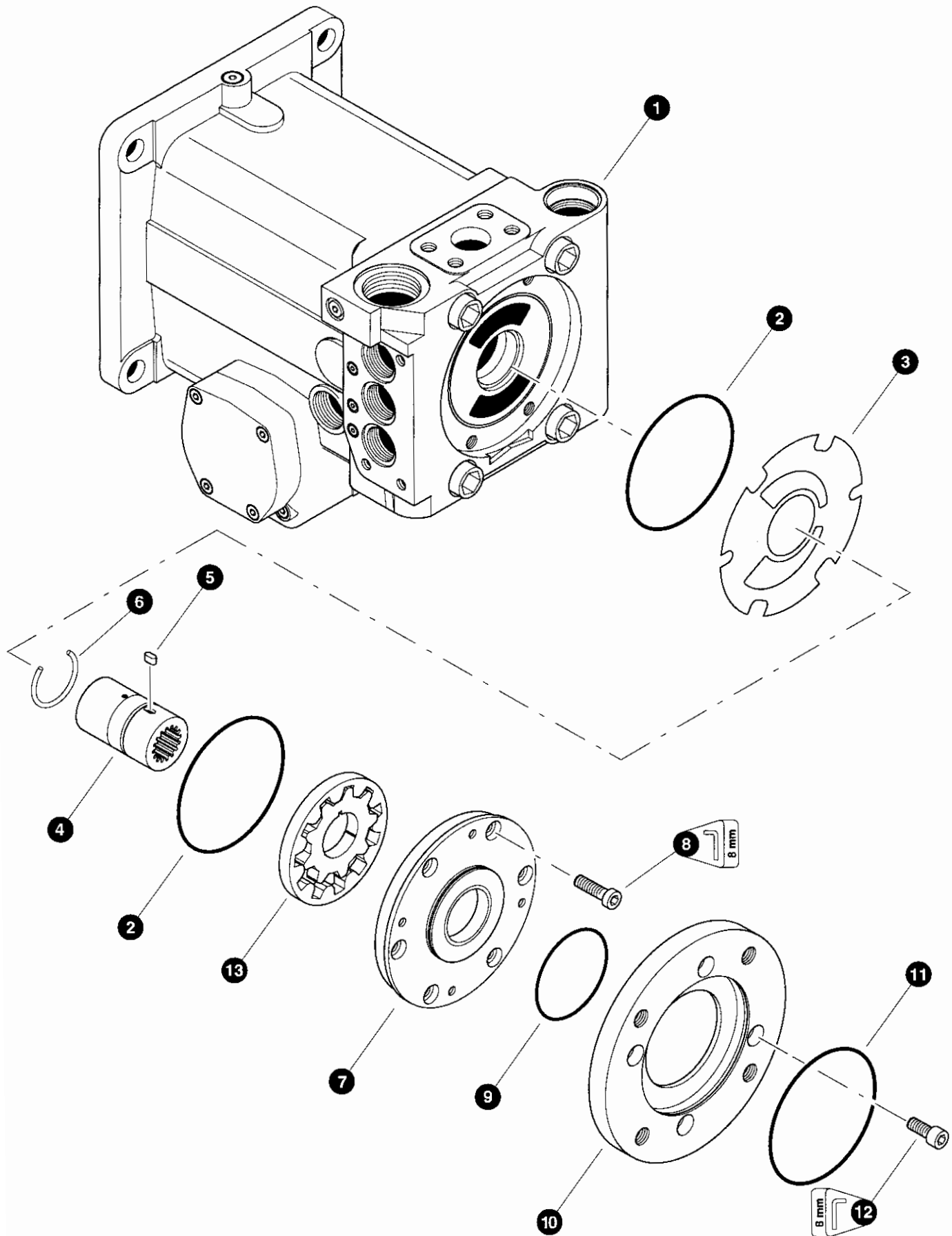
Due to warranty policy restrictions imposed by Timbco's component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.

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 (w/thru drive)	
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 (SAE "C")	
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:

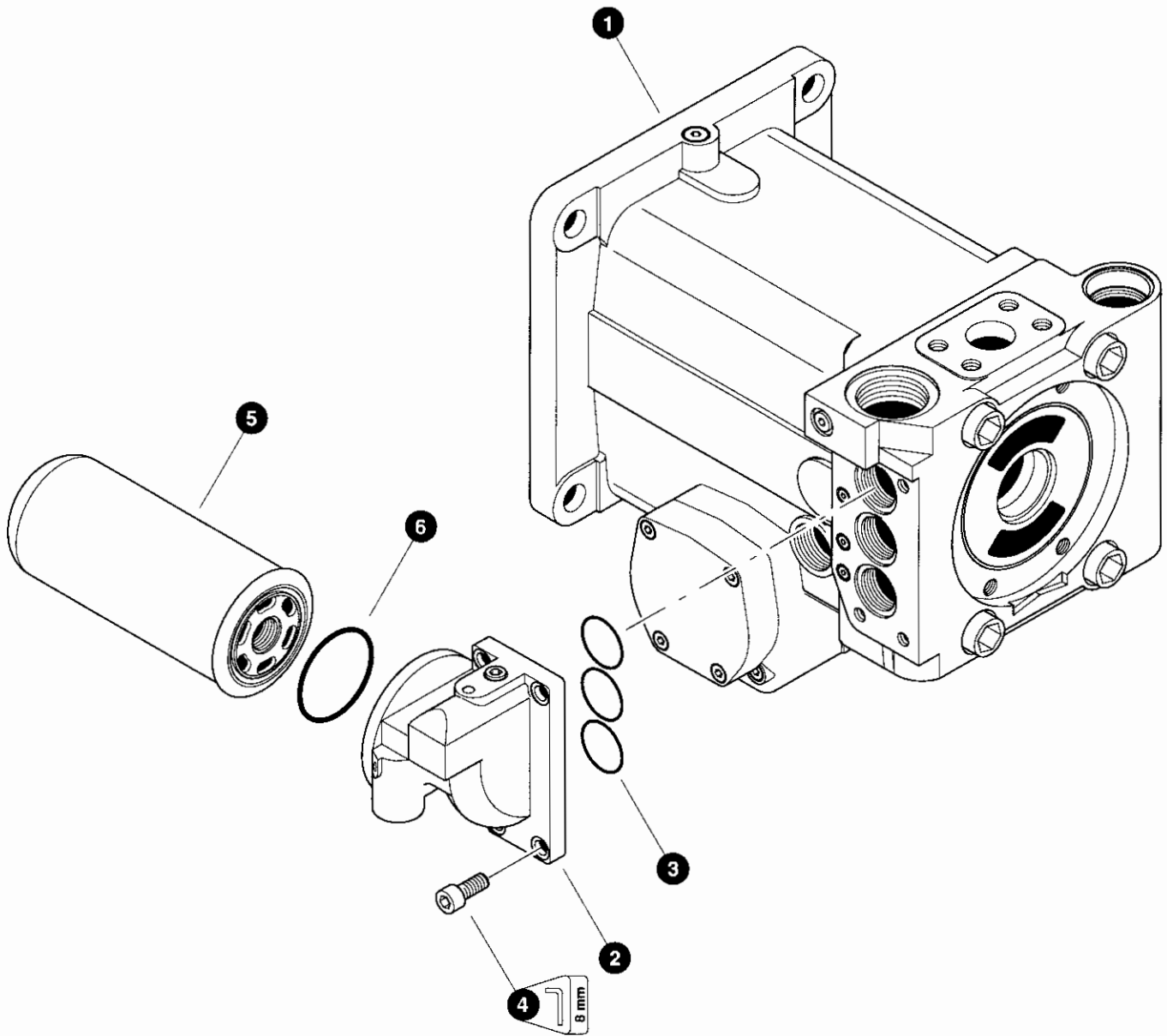
Due to warranty policy restrictions imposed by Timbco's component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.

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.



Parts 00417 01/30/98
37.50

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:

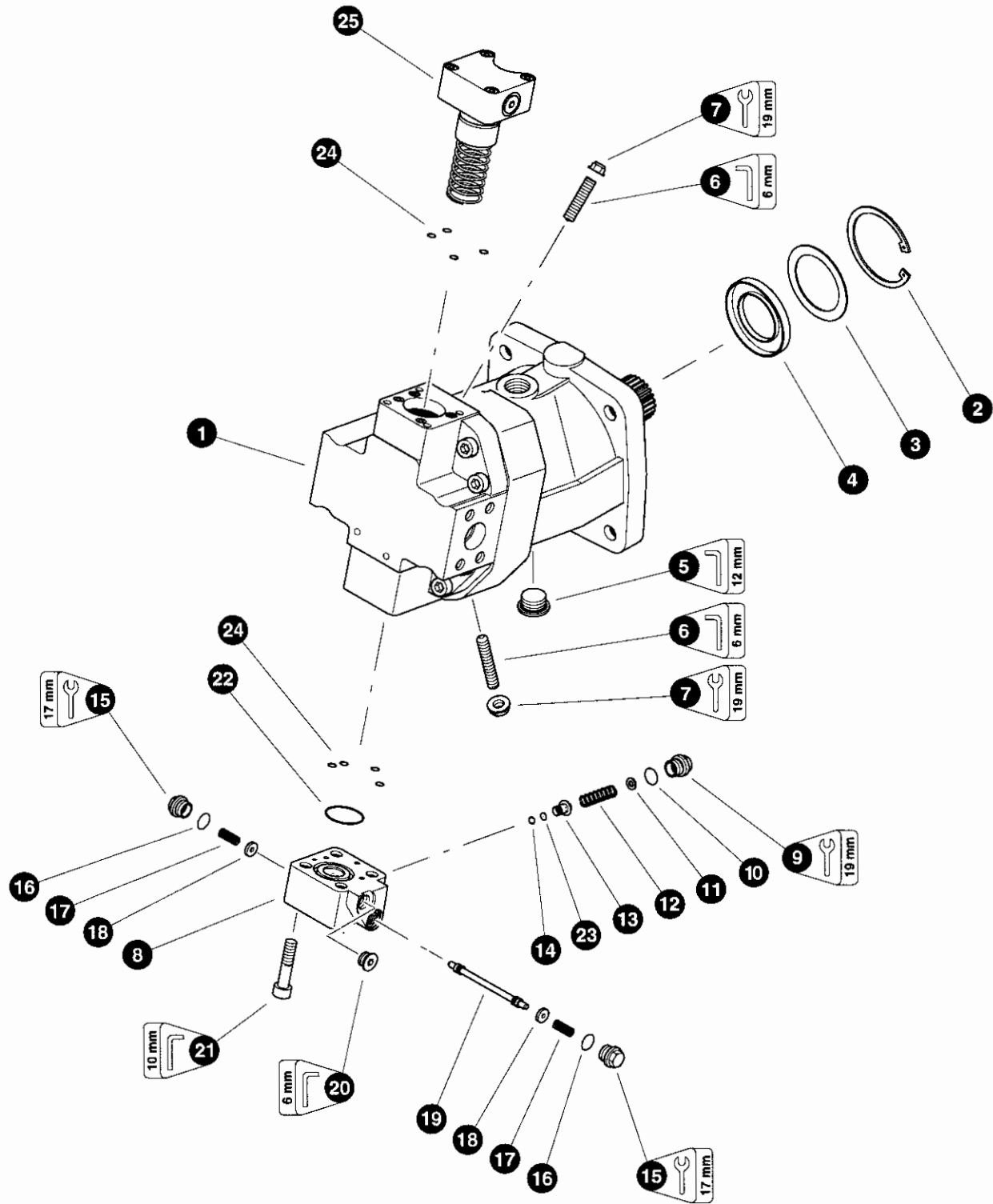
Due to warranty policy restrictions imposed by Timbco's component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.

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 00474 02/22/98
25.00

WHEEL DRIVE MOTOR - REXROTH AA6VM160

(Motor Housing & Stroker Piston Cover Assembly)

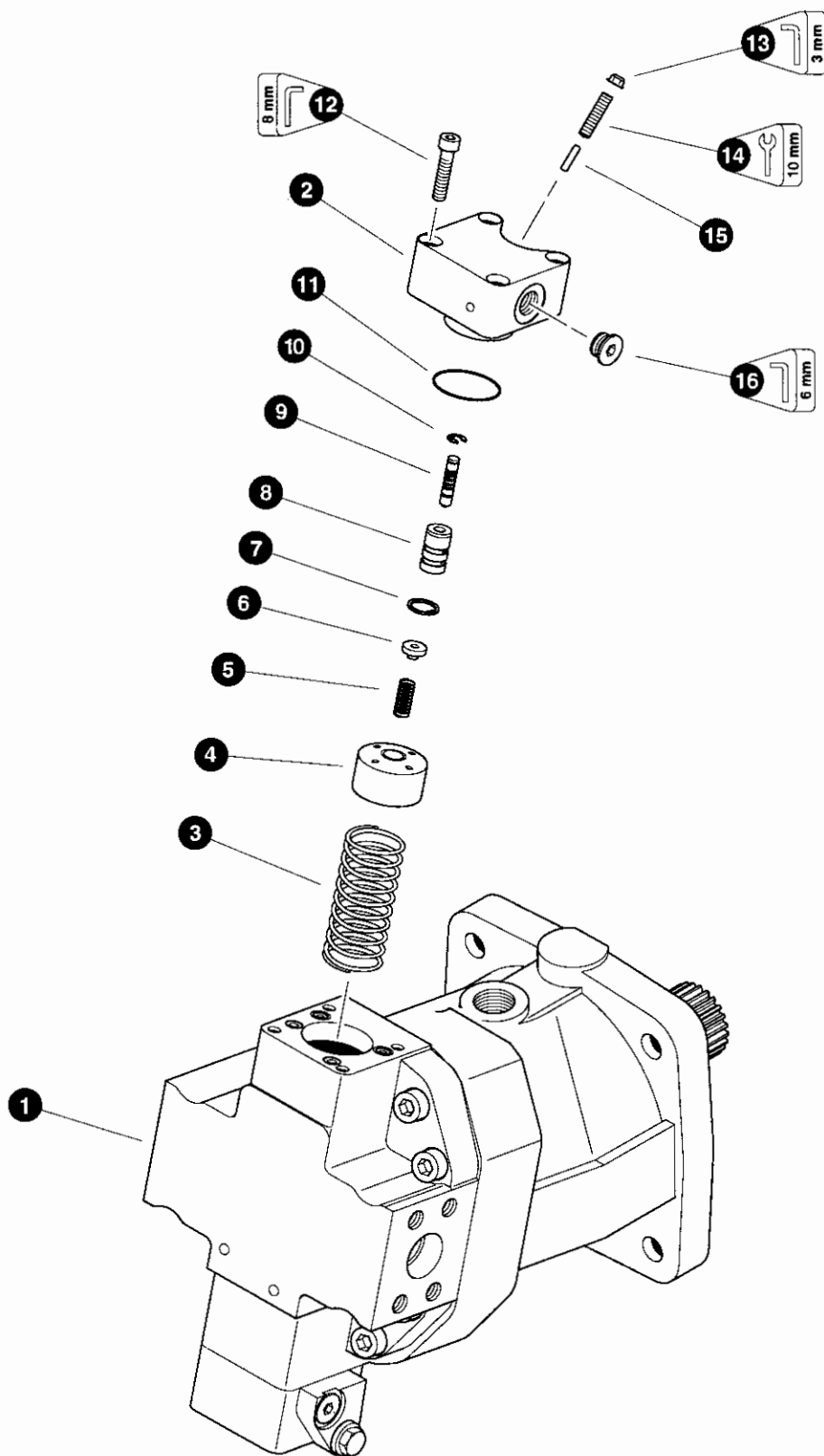
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19900	1	☐	MOTOR, wheel drive - Rexroth AA6VM160 (Front) (S/N# tag No. 5652-004-030)	
	19901	1	☐	MOTOR, wheel drive - Rexroth AA6VM160 (Rear) (S/N# tag No. 5652-004-031)	
2	20685	1		RING, snap	
3	20686	1		SHIM, shaft seal	
4	20687	1	★	SEAL, shaft	
5	19692	1		PLUG - 26mm-1.5P (BSPP thread)	
6	20688	2		SCREW, adjusting (Displacement min & max)	
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 (BSPP thread)	
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 (Front) (S/N# tag No. 5652-004-030)	
	19901	1	□	MOTOR, wheel drive - Rexroth AA6VM160 (Rear) (S/N# tag No. 5652-004-031)	
2	20726	1	□	STROKING PISTON CONTROL ASSEMBLY (HA1T)	
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 (Stroke control)	
15	20739	1		PIN, stroke adjustment	
20	20693	1		PLUG - 14mm-1.5P (BSPP thread)	
-	20725	1		KIT, seal repair - complete AA6VM160 motor	

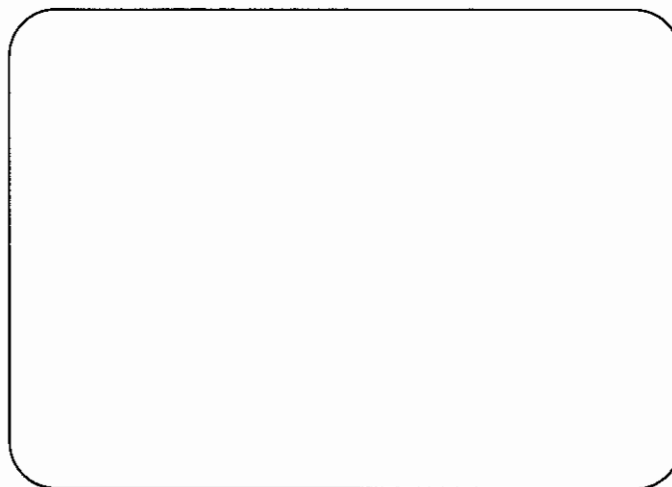
□ Kit or Assembly - includes all items indented underneath.

★ Included in seal repair kit Part # 20725.

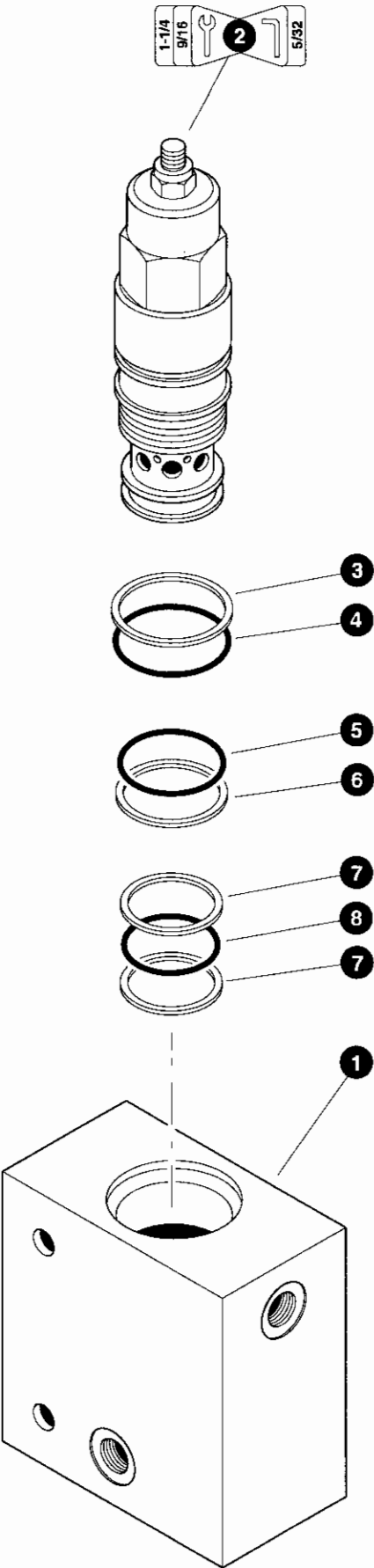
Note:

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.

[illegible]



Hydraulic Valves & Manifolds - System Pilot Pressure



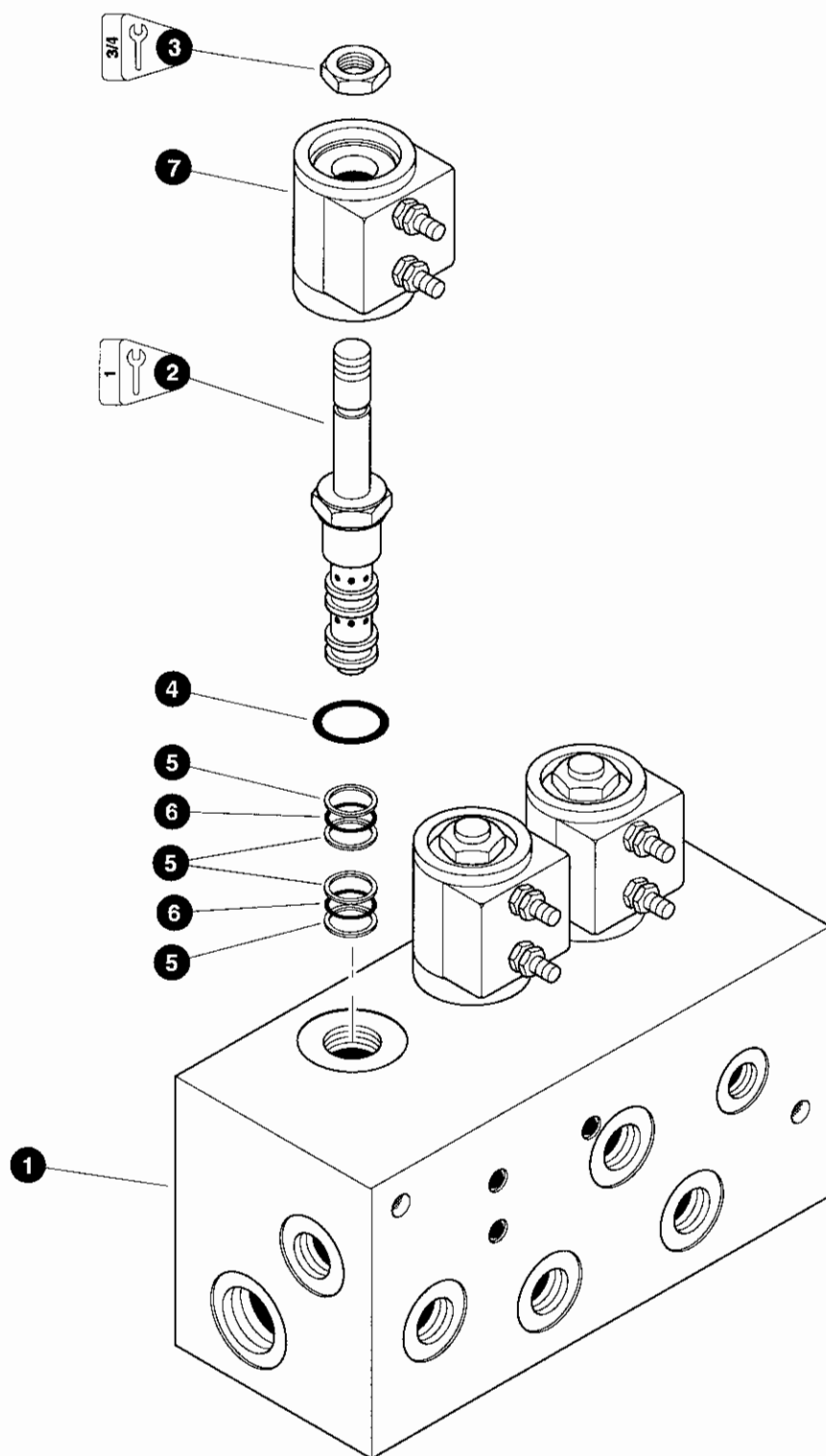
Parts 00336 12/11/97
75.00

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 (upper)	
6	NSS	1	★	RING, back-up - chamber (upper)	
7	NSS	2	★	RING, back-up - chamber (lower)	
8	NSS	1	★	O-RING, chamber (lower)	
-	16086	1		KIT, seal repair - relief valve cartridge	

☐ Kit or Assembly - includes all items indented underneath.

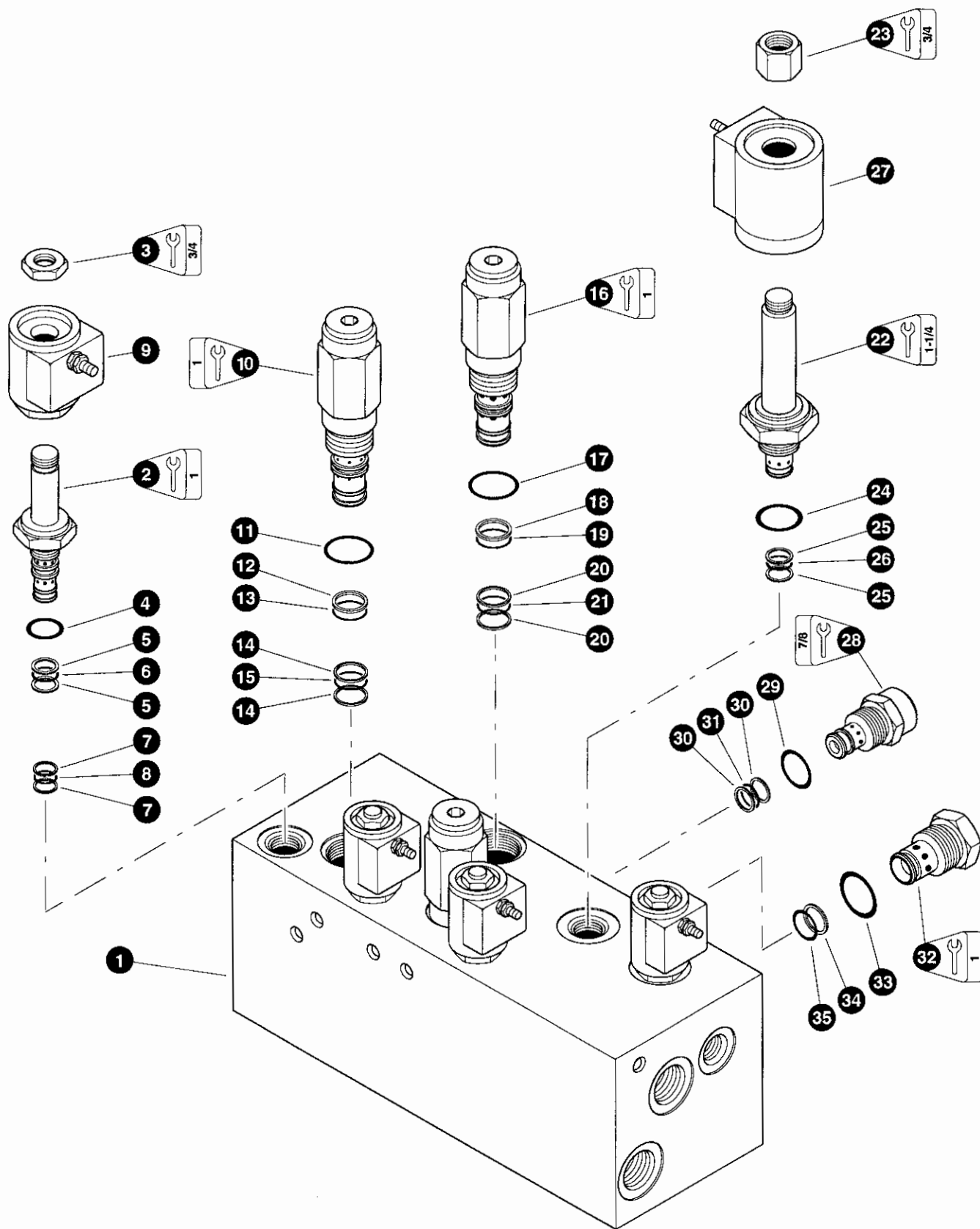
★ Included in seal repair kit Part # 16086.



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 (small)(SV07-31-0-N-12DB)	
2	22394	1	☐	CARTRIDGE, solenoid valve (small)(SV08-40-0-N-12DB)	
3	NSS	1		NUT	
4	NSS	1	★	O-RING, body	
5	NSS	2	★	RING, back-up - chamber (upper)	
6	NSS	1	★	O-RING, chamber (upper)	
7	NSS	2	★	RING, back-up - chamber (lower)	
8	NSS	1	★	O-RING, chamber (lower)	
9	20289	1		COIL, mono-block valve - 12V (small)	
10	20290	2	☐	CARTRIDGE, relief valve (PR10)	
11	NSS	1	☆	O-RING, body	
12	NSS	1	☆	RING, back-up - chamber (upper)	
13	NSS	1	☆	O-RING, chamber (upper)	
14	NSS	2	☆	RING, back-up - chamber (lower)	
15	NSS	1	☆	O-RING, chamber (lower)	
16	20292	1	☐	CARTRIDGE, relief valve (UP10)	
17	NSS	1	●	O-RING, body	
18	NSS	1	●	RING, back-up - chamber (upper)	
19	NSS	1	●	O-RING, chamber (upper)	
20	NSS	2	●	RING, back-up - chamber (lower)	
21	NSS	1	●	O-RING, chamber (lower)	
22	20287	1	☐	CARTRIDGE, solenoid valve (small)	
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 (large)	
28	20296	1	☐	CARTRIDGE, check valve (FR08)	
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 (CV10)	
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.

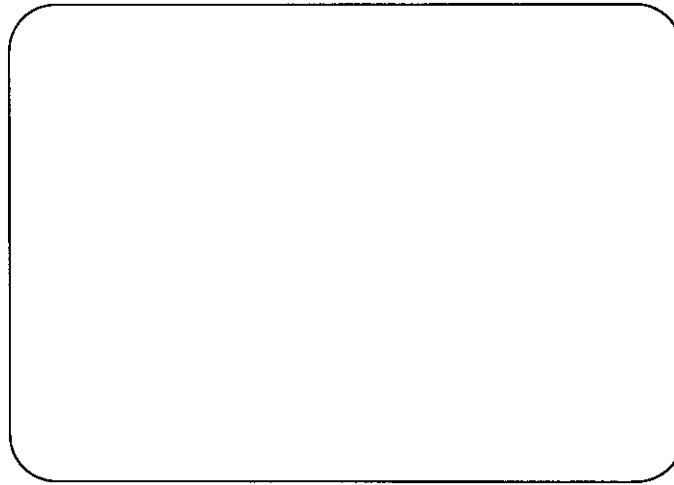
● Included in seal repair kit Part # 20293.

○ Included in seal repair kit Part # 20294.

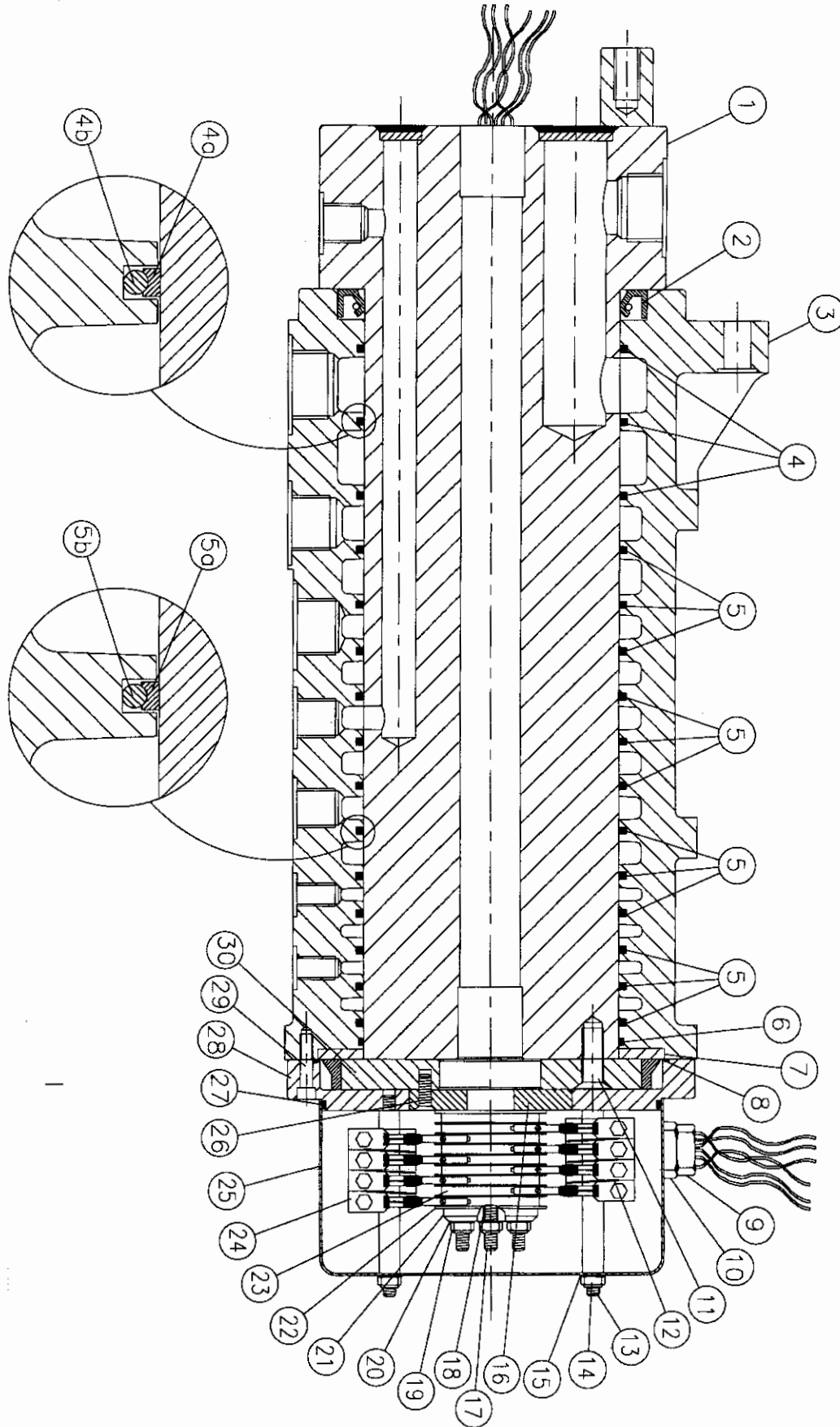
■ Included in seal repair kit Part # 20297.

▲ Included in seal repair kit Part # 20299.

[illegible]



Hydraulic Valves & Manifolds - Loader Implements



ROTARY MANIFOLD (Fluidtronics)

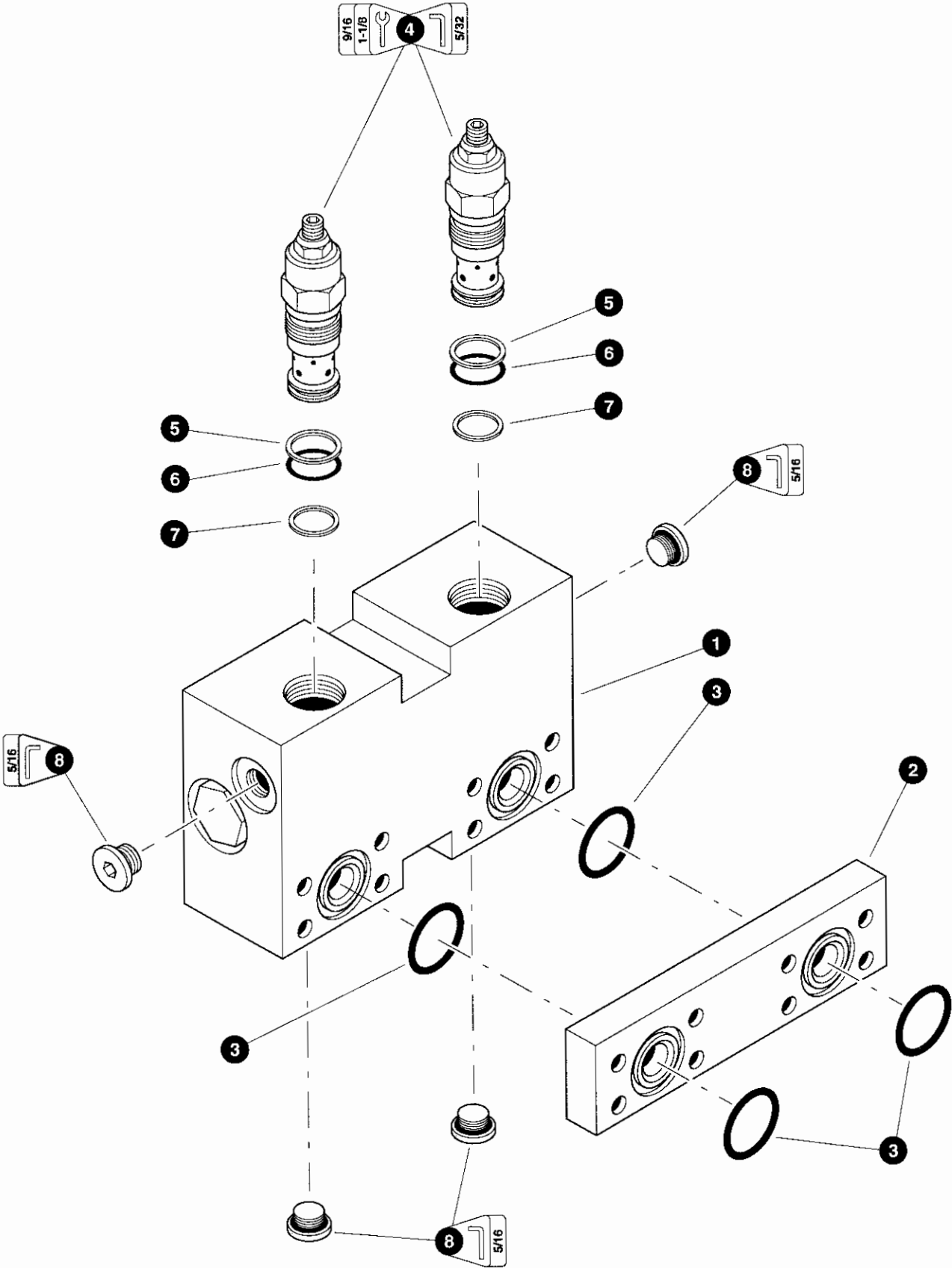
REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	21044	1	☐	MANIFOLD, rotary - 1-1/4" ORB porting (Used on machines PDN# 062FWD and above)(See Note below)	
--	19363	1	☐	MANIFOLD, rotary - 1" ORB porting (Used on machines PDN# 026FWD thru PDN# 061FWD)(See Note below)	
--	19371	1	☐	MANIFOLD, rotary - 1" BSPP porting (Used on machines PDN# 025FWD and below)(See Note below)	
1	NSS	1		PISTON	
2	20669	1	★	SEAL, rotary manifold	
3	NSS	1		HOUSING	
4a	NSS	3	★	SEAL, lip (high pressure)	
4b	NSS	3	★	O-RING (high pressure)	
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 (large diameter)	
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 (small diameter)	
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 (w/integral wiper ring)	
-	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

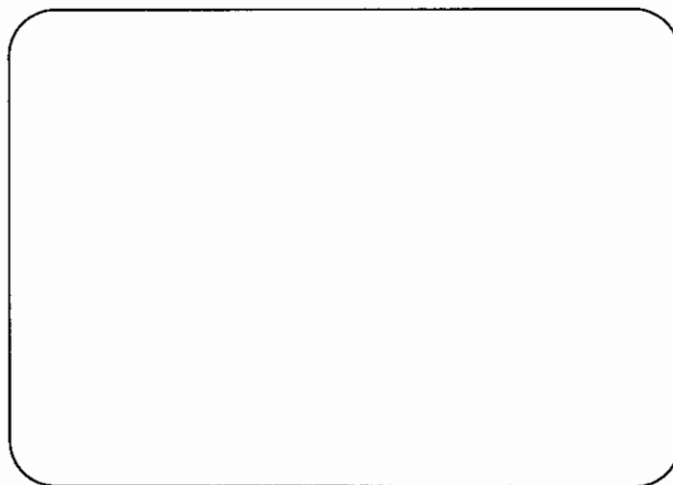
(Used With Poclain Swing Motor)

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	

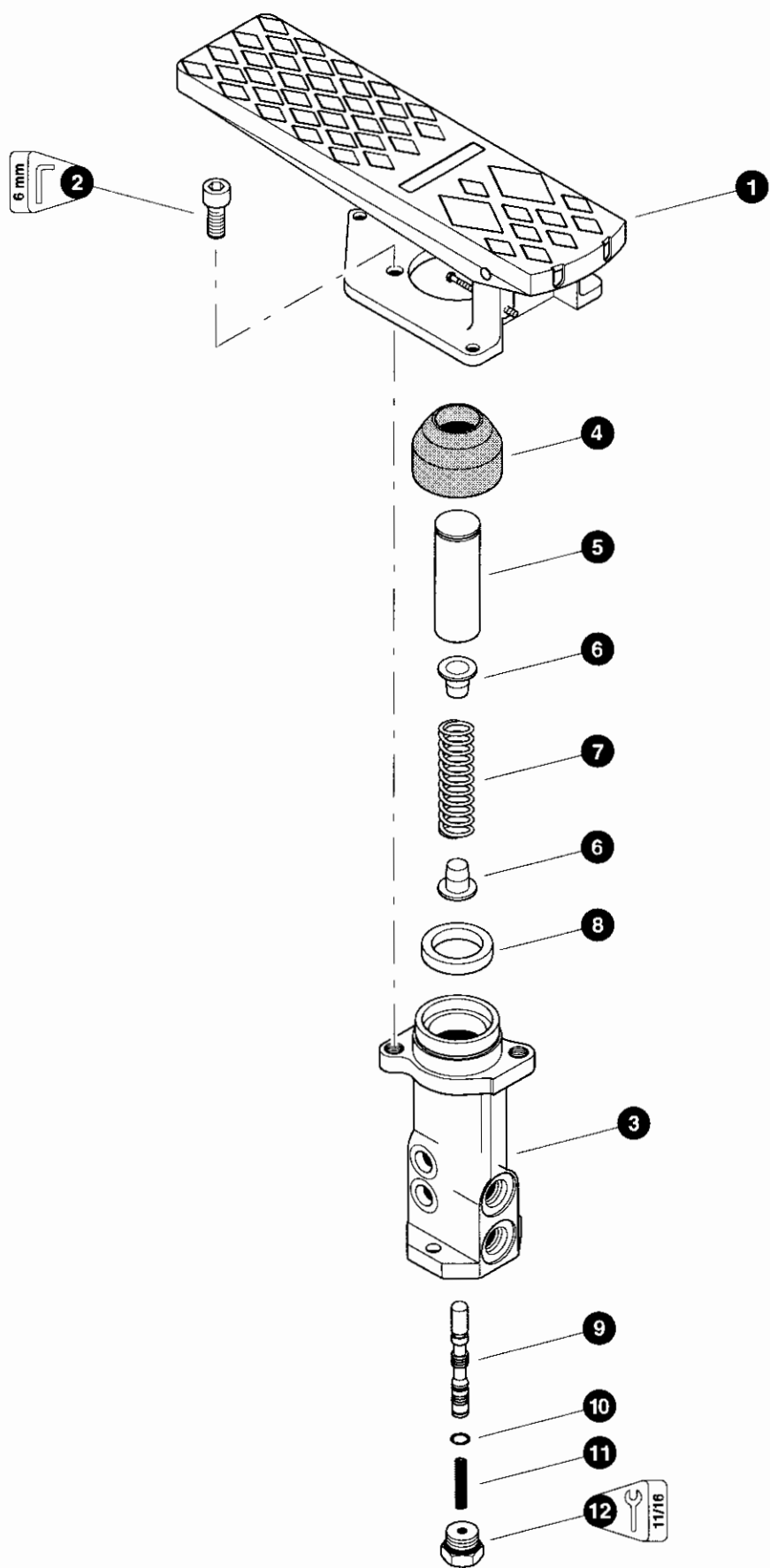
☐ Kit or Assembly - includes all items indented underneath.

★ Included in seal repair kit Part # 19272.

[illegible]



Hydraulic Valves & Manifolds - Wheel Drive



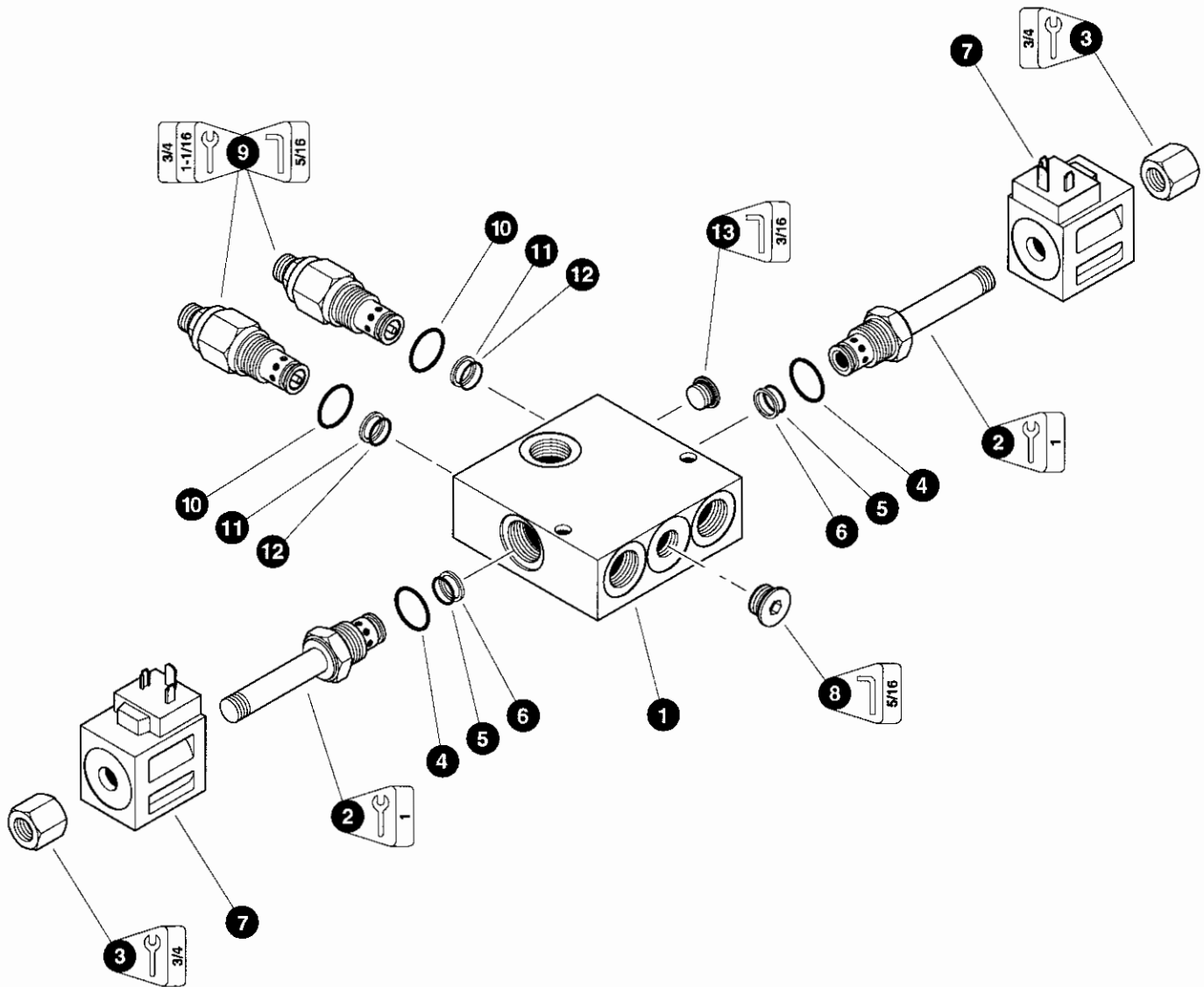
Parts 00389 01/19/98
50.00

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)(Used on machines PDN# 048FWD and above)	
	20949	1	☐ VALVE, brake control (70 Bar)(Used on machines PDN# 047FWD and below)	
4	20745	1	BOOT	
5	20746	1	PISTON	
6	20747	2	RETAINER, spring	
7	20748	1	SPRING, piston (60 Bar)(Used on machines PDN# 048FWD and above)	
	20950	1	SPRING, piston (70 Bar)(Used on machines PDN# 047FWD and below)	
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.

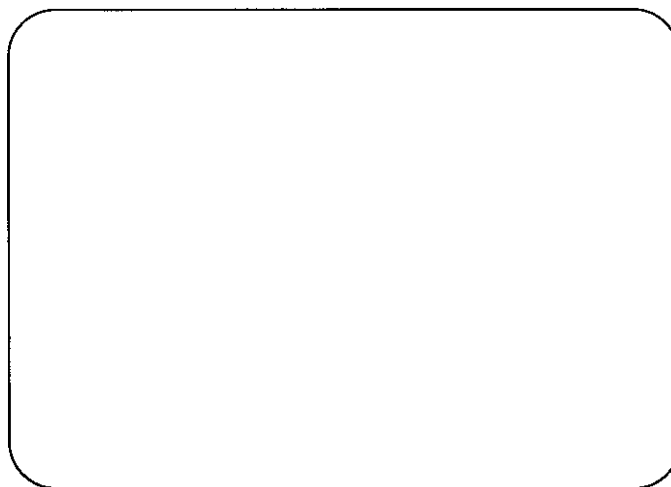


FRAME LOCK VALVE

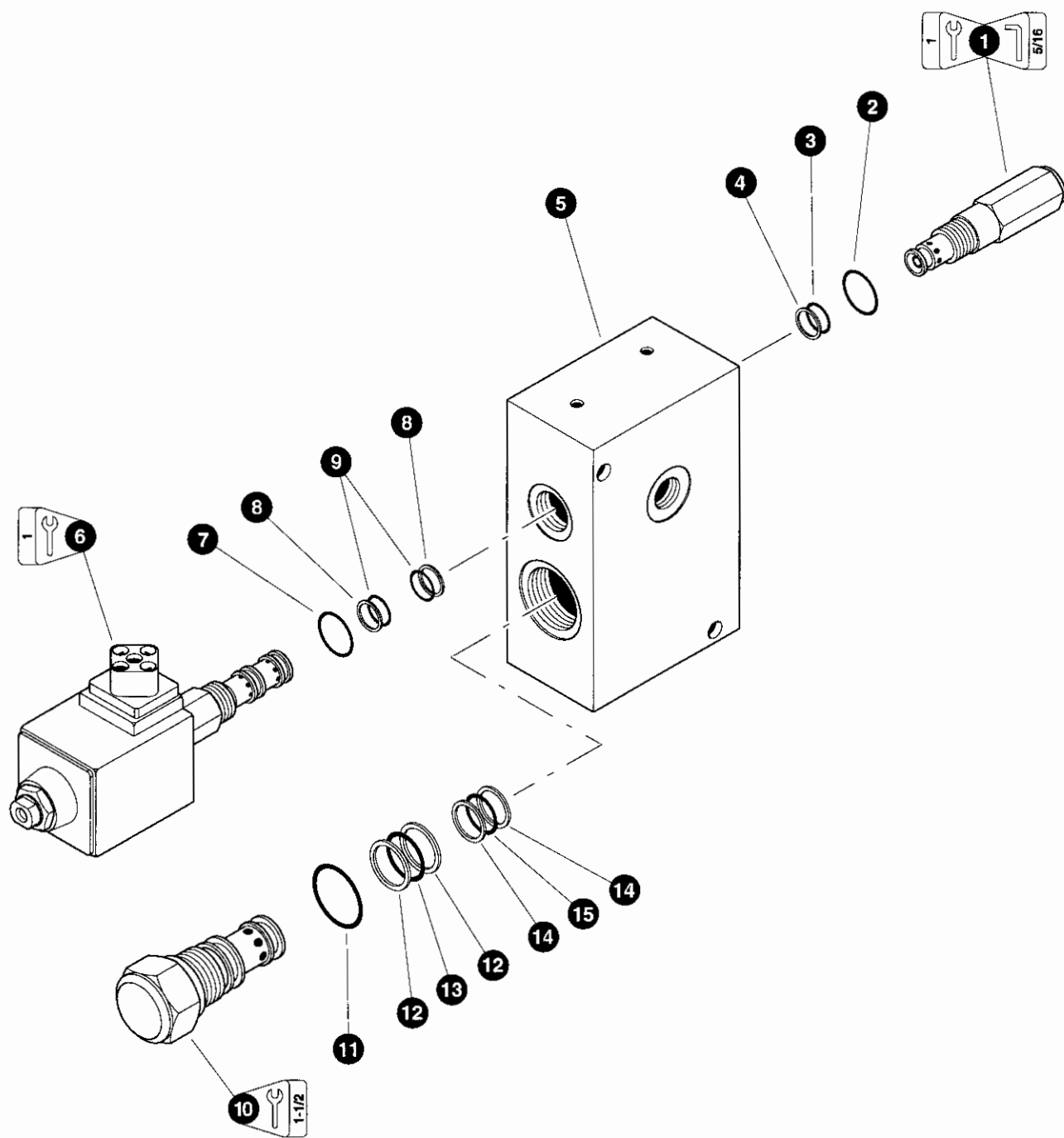
REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	18865	1	☐	VALVE, frame lock	
1	NSS	1		BODY	
2	20597	2	☐	CARTRIDGE, solenoid - 12V	
3	NSS	1		NUT	
4	NSS	1	★	O-RING - body	
5	NSS	1	★	O-RING - chamber	
6	NSS	1	★	RING, back-up - chamber	
7	18684	1		COIL, solenoid - 12V	
8	18949	1	☐	PLUG - 6408-HHP-8	
	20321	1		O-RING, 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.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Hydraulic Valves & Manifolds - Optional Clam Bunk

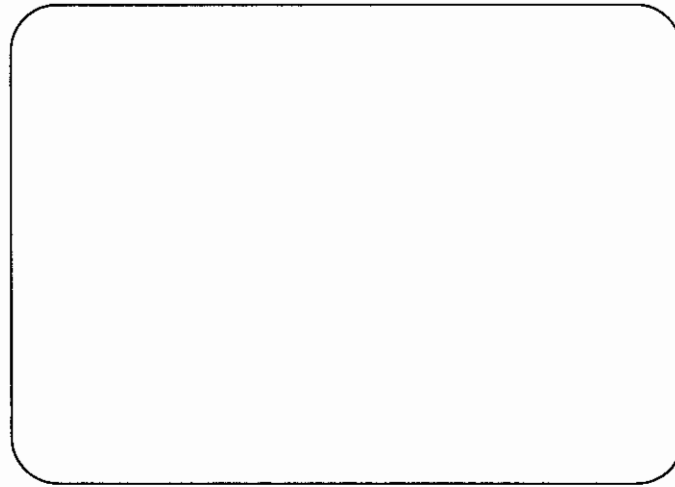


SAW STOP VALVE

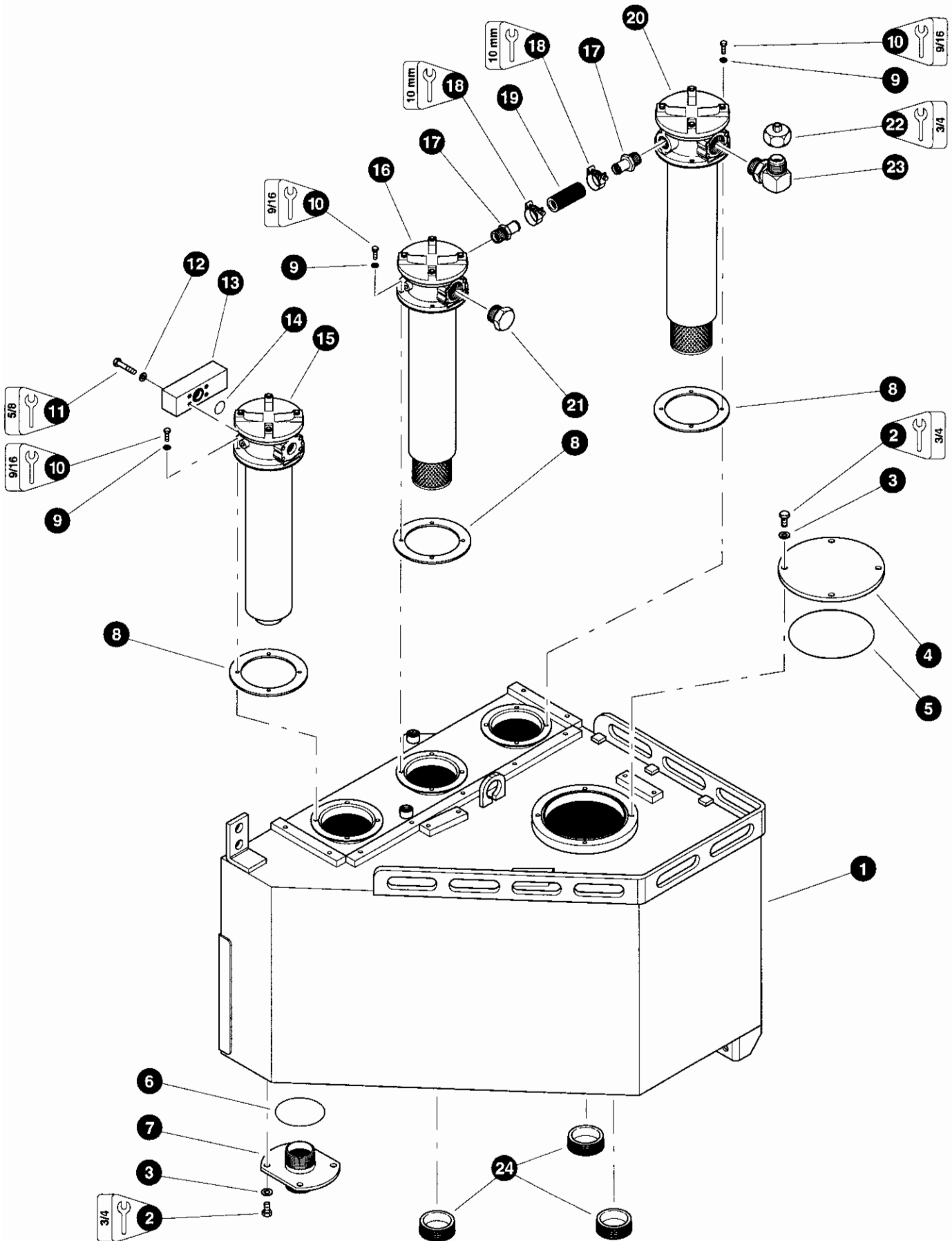
REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	16606	1	□	VALVE, saw stop	
1	19084	1	□	CARTRIDGE, relief valve	
2	NSS	1	★	O-RING, body	
3	NSS	1	★	O-RING, chamber	
4	NSS	1	★	RING, back-up - chamber	
5	NSS	1		HOUSING, valve body	
6	17033	1	□	CARTRIDGE, saw stop solenoid	
7	NSS	1	☆	O-RING, body	
8	NSS	2	☆	RING, back-up - chamber	
9	NSS	2	☆	O-RING, chamber	
10	16029	1	□	CARTRIDGE, flow stop valve	
11	NSS	1	●	O-RING, body	
12	NSS	2	●	RING, back-up - chamber (Large)	
13	NSS	1	●	O-RING, chamber (Large)	
14	NSS	2	●	RING, back-up - chamber (Small)	
15	NSS	1	●	O-RING, chamber (Small)	
-	16868	1	□	KIT, seal repair - complete saw stop valve	
-	16868-1	1	○	KIT, seal repair - saw stop solenoid cartridge	
-	16868-2	1	○	KIT, seal repair - flow stop valve cartridge	
-	10374-3	1	○	KIT, seal repair - relief valve cartridge	

- Kit or Assembly - includes all items indented underneath.
- ★ Included in seal repair kit Part # 16868-1.
- ☆ Included in seal repair kit Part # 16868-2.
- Included in seal repair kit Part # 10374-3.
- Included in seal repair kit Part # 16868.

[illegible]



Hydraulic Tank & Cylinders - Hydraulic Tank

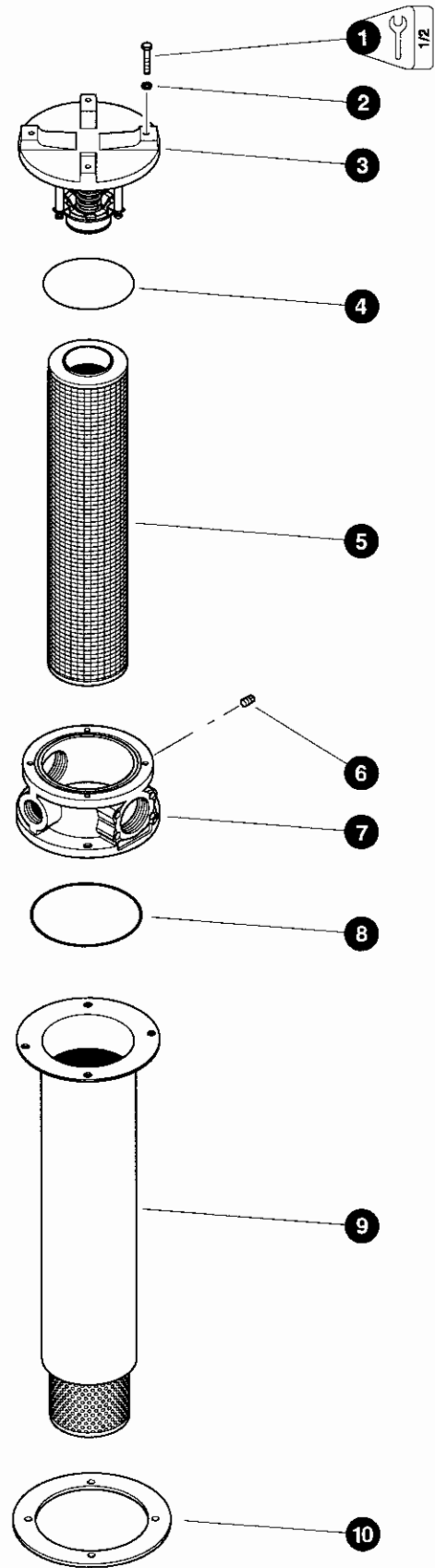
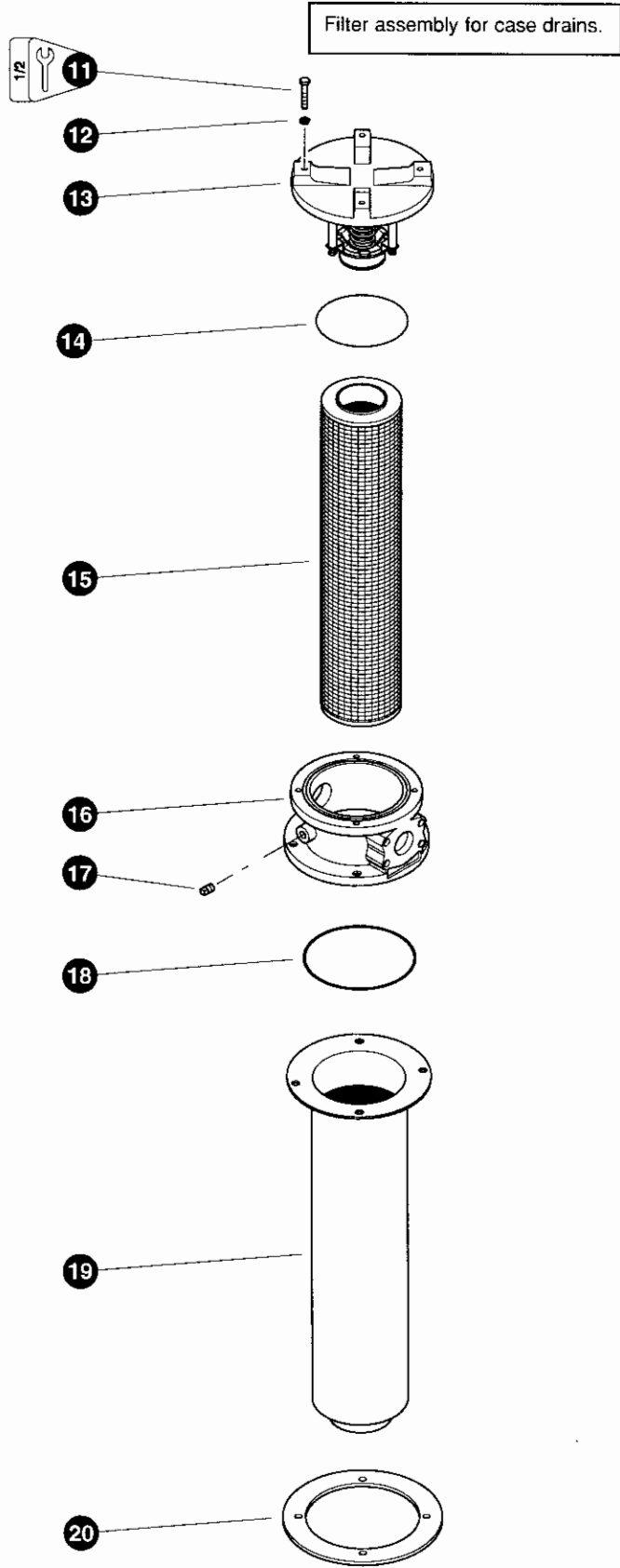


Parts 00304 12/04/97
12.50

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	16552	1		COVER, system pump suction	
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

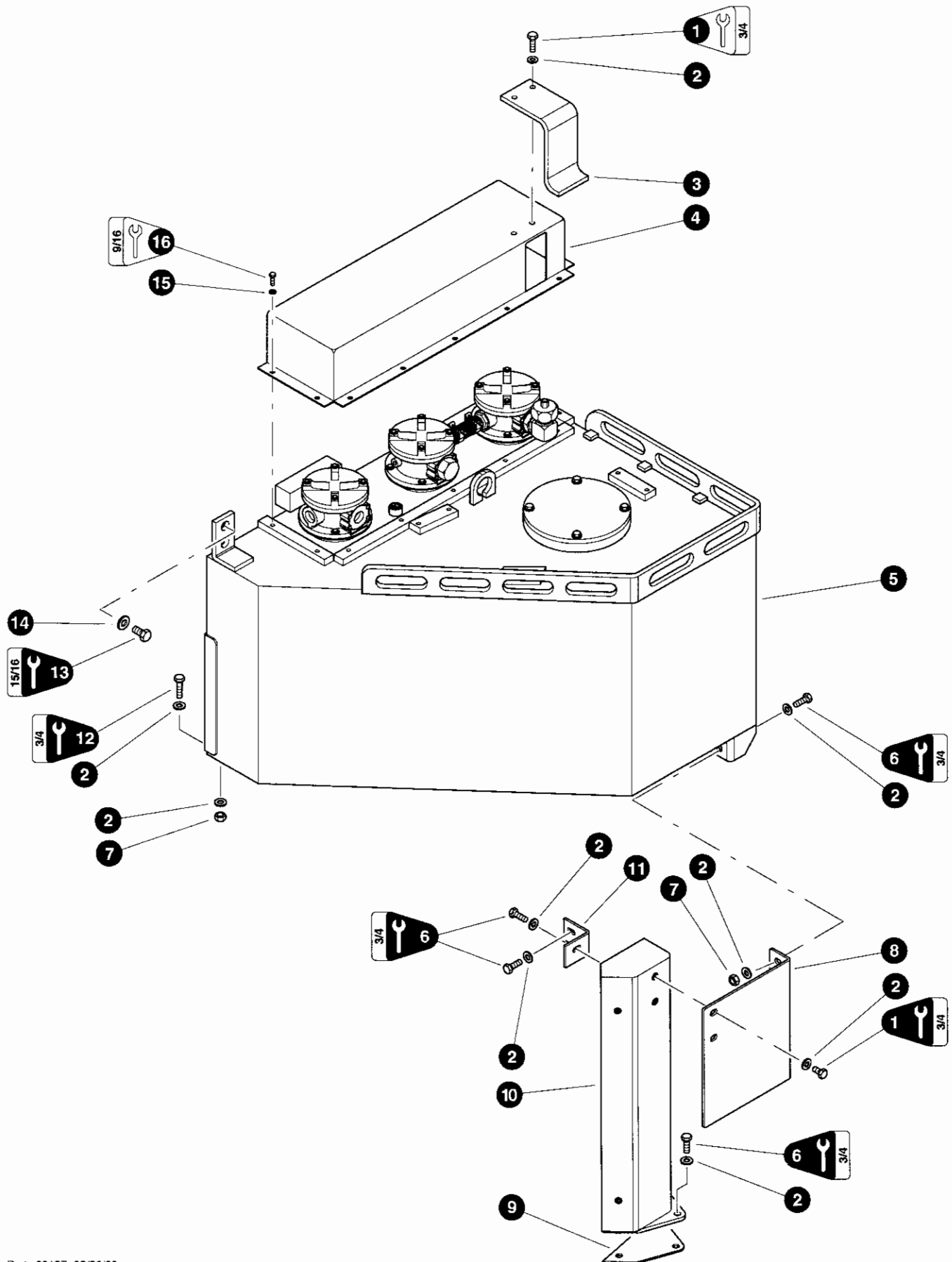
Filter assembly for oil cooler
return oil and optional disc saw
return oil.

RETURN FILTER ASSEMBLIES

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	16730	2	☐	FILTER, return (Used with oil cooler return and auxiliary return oil)	
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 (Used with case drains)	
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.

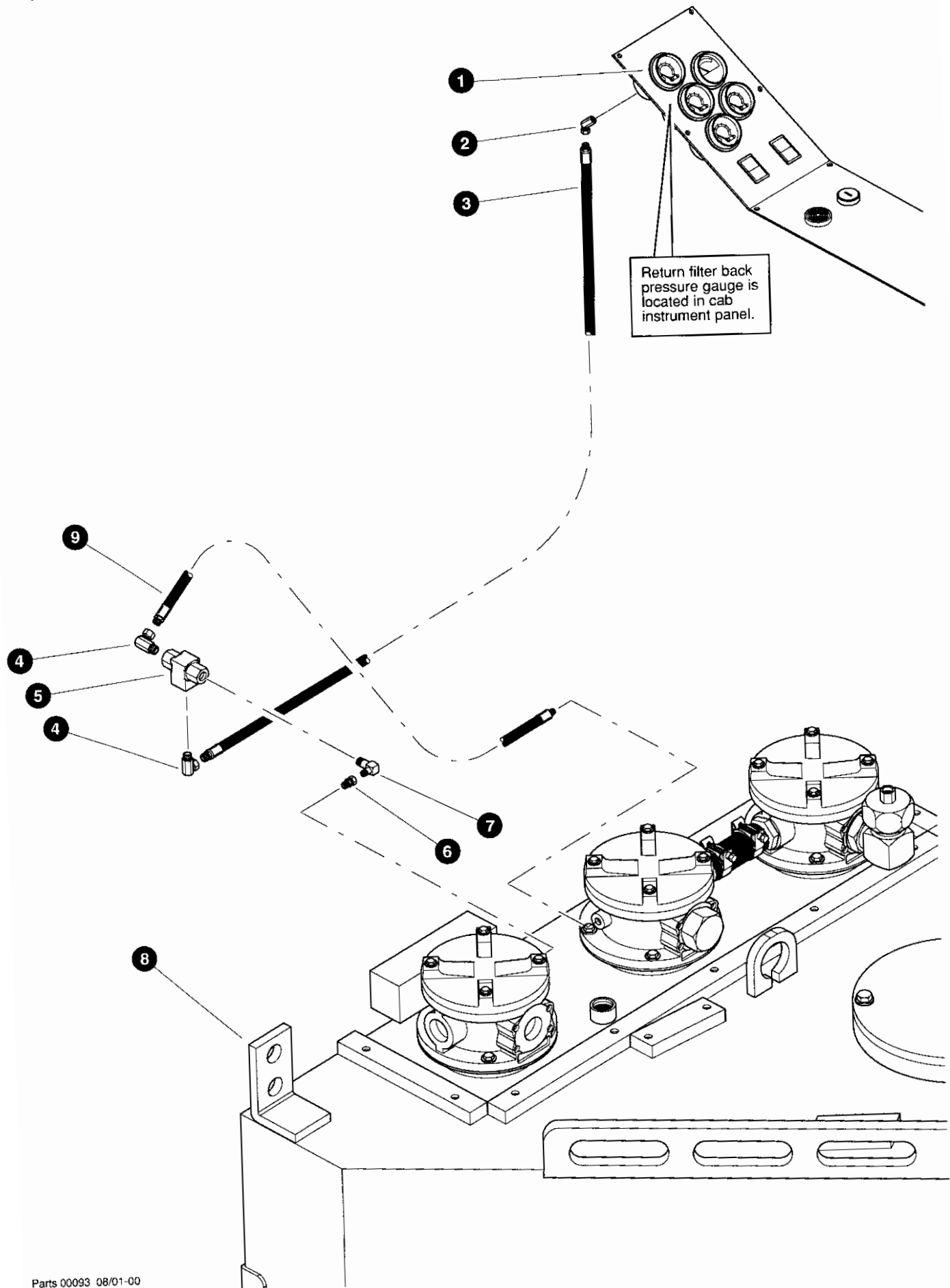


Parts 00197 02/26/98
12.50

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 (Used on machines PDN# 044FWD and above)	
	80218	1	BRACKET, hydraulic tank exterior mounting (Used on machines PDN# 043FWD and below)	
9	20740	AR	SHIM, hydraulic tank support (1/8" thick)	
	20741	AR	SHIM, hydraulic tank support (3/16" thick)	
	20742	AR	SHIM, hydraulic tank support (1/4" thick)	
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.

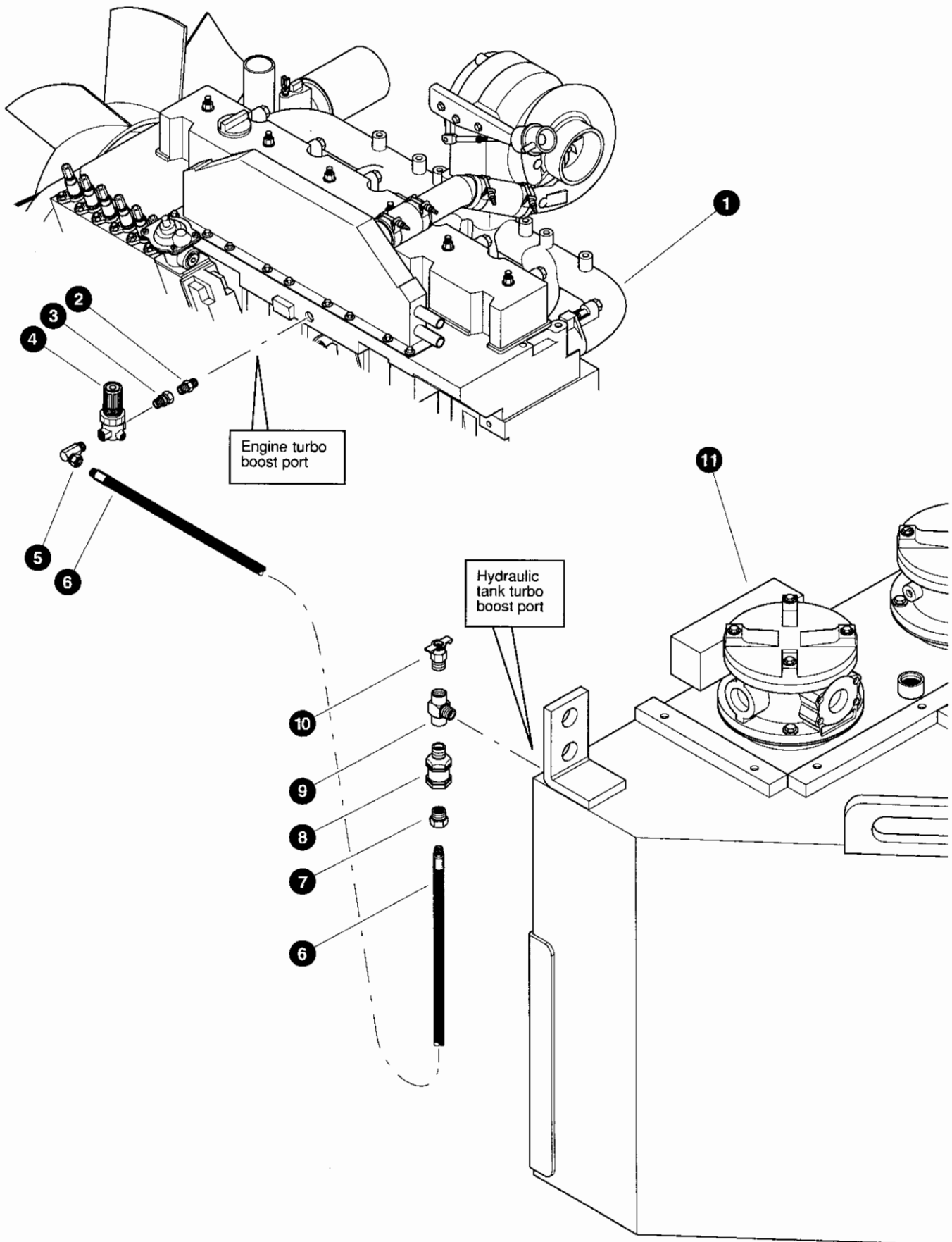


Parts 00093 08/01-00

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 (Return filter shuttle valve to return filter back pressure gauge)	
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.



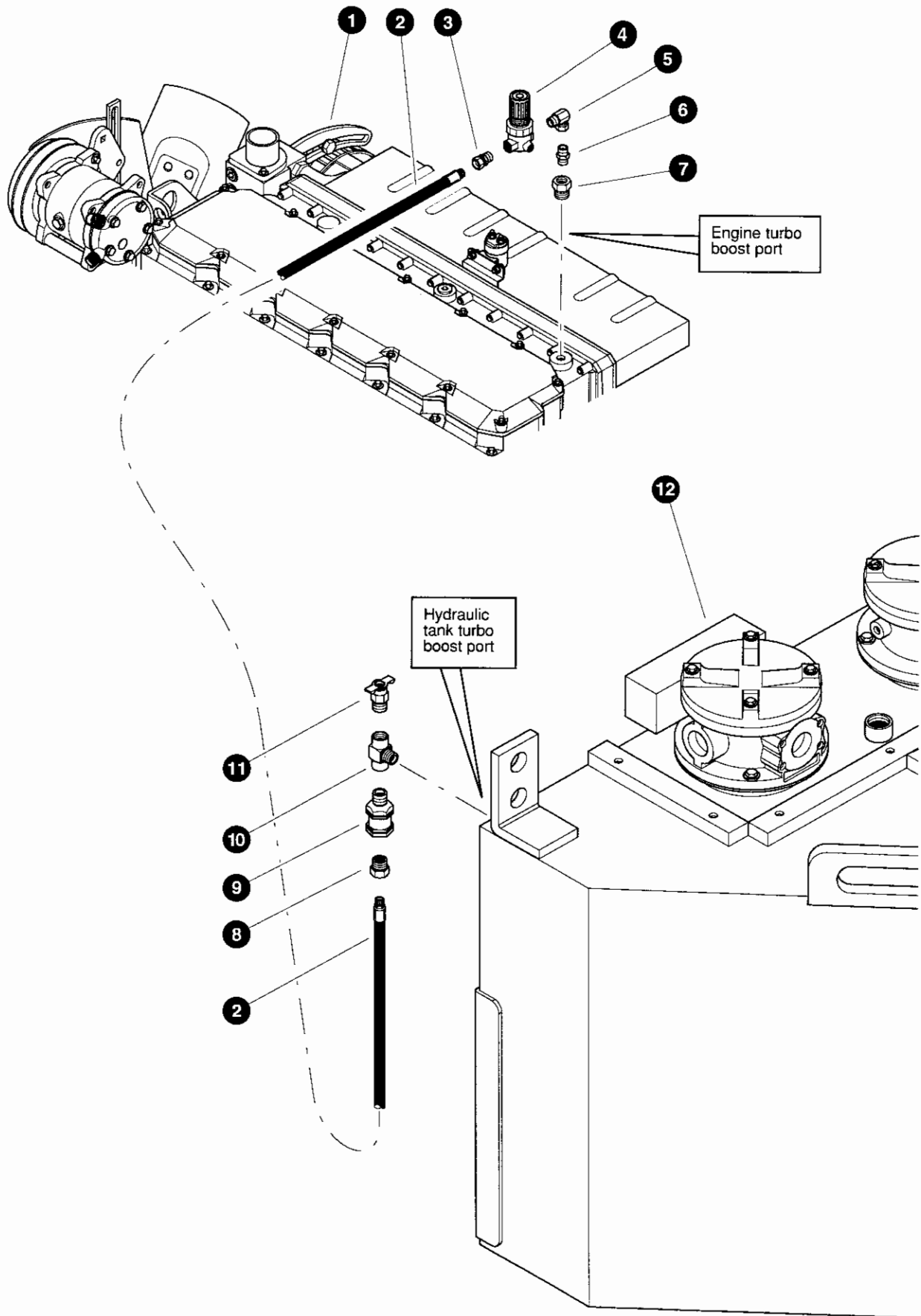
Parts 00452 02/15/98
18.75

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 (Turbo boost regulator to hydraulic tank)	
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.



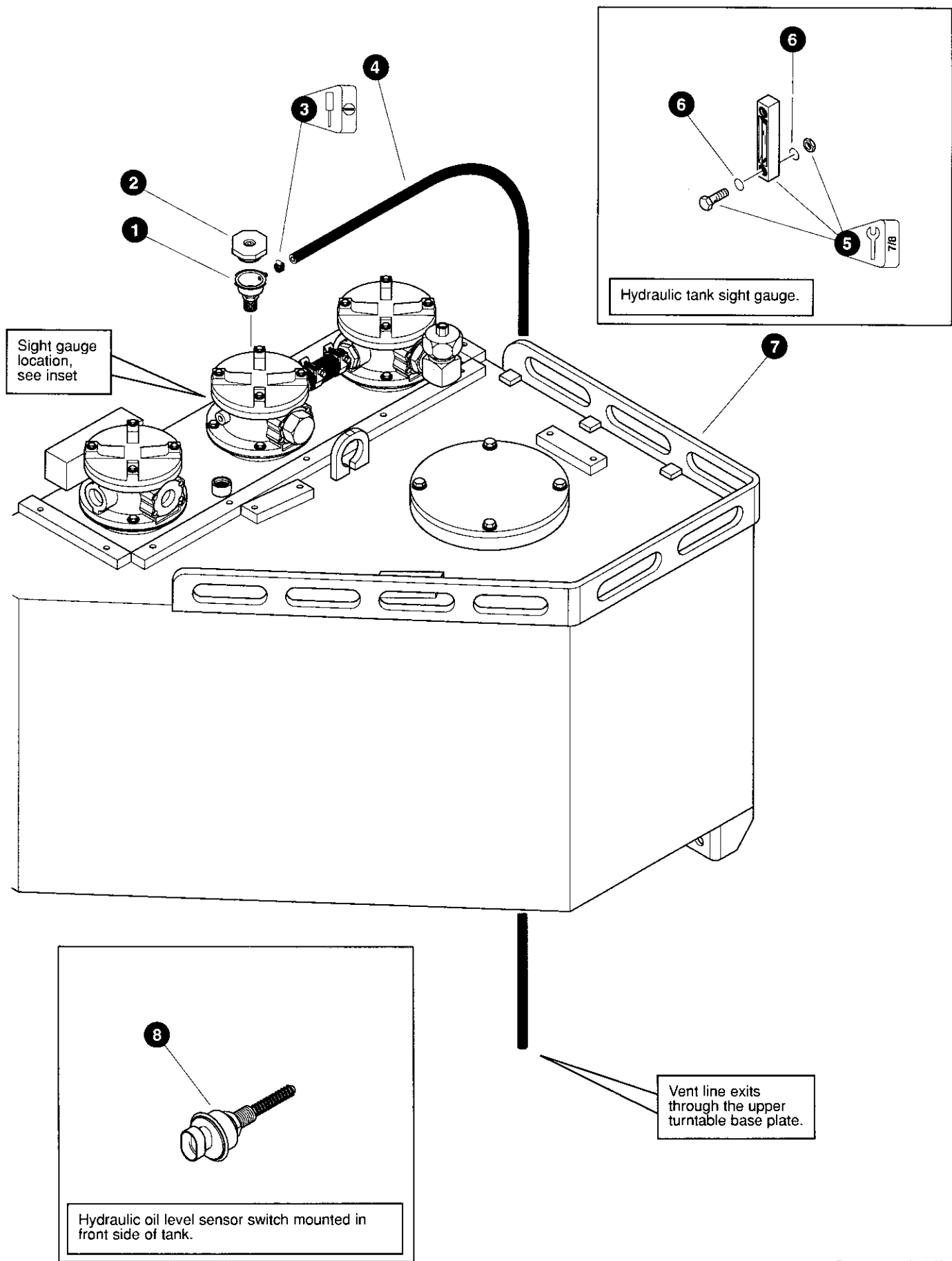
Parts 00453 02/15/98
25.00

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 (Turbo boost regulator to hydraulic tank)	
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

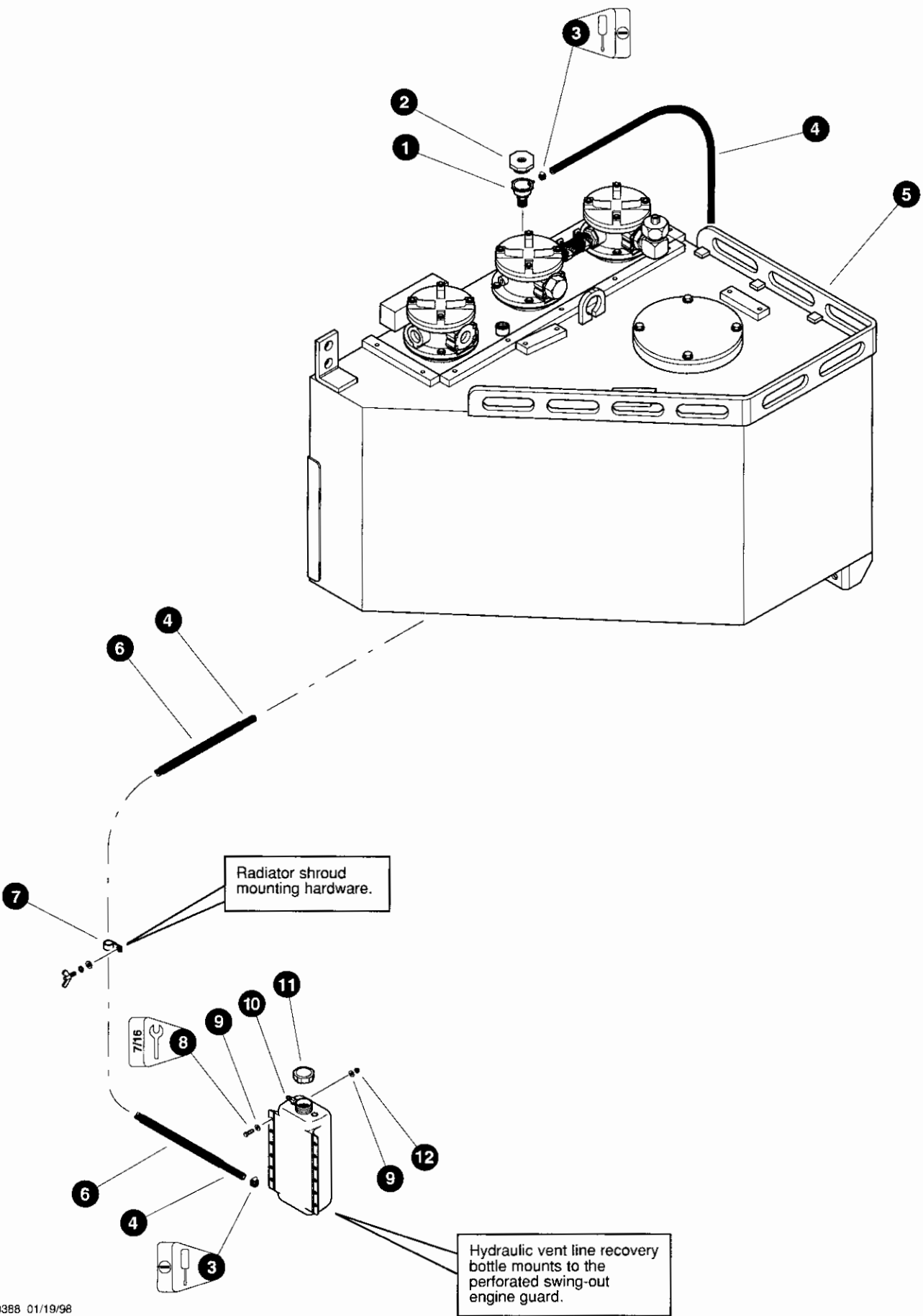
✓ See referenced page for component or assembly breakdown.



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.



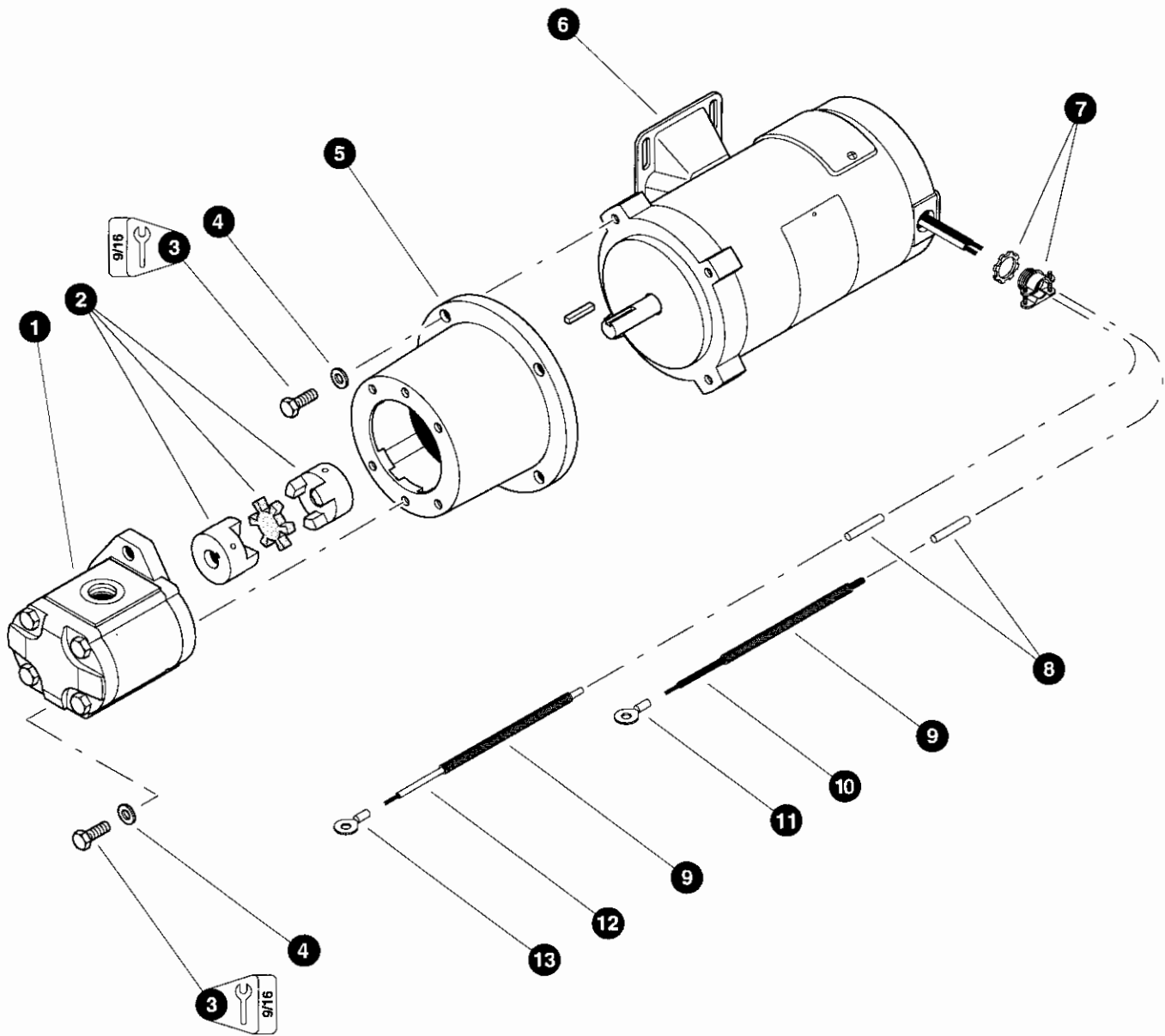
Parts 00388 01/19/98
12.50

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.

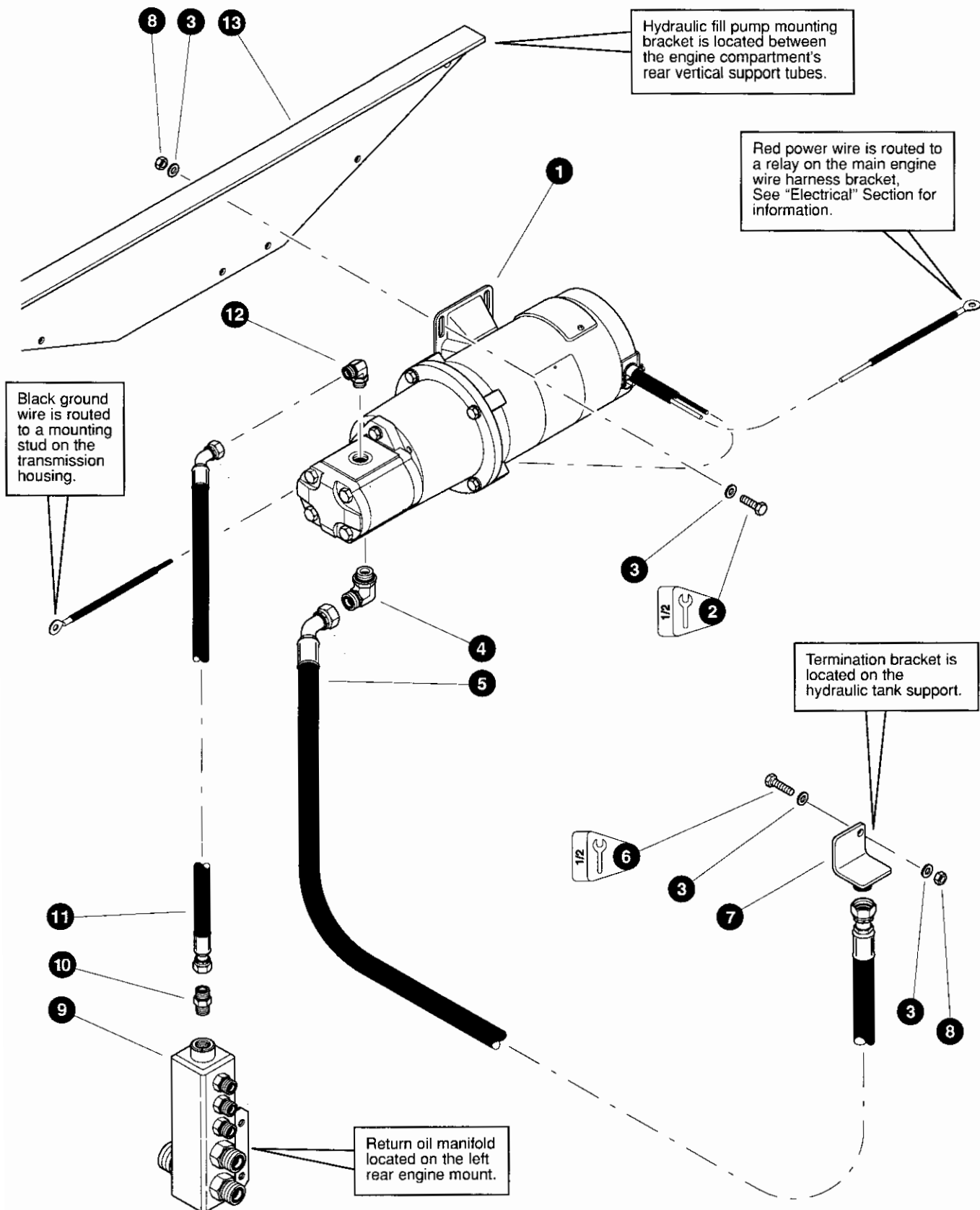


ELECTRIC HYDRAULIC OIL FILL PUMP ASSEMBLY

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 fill	
7	16331	1		RELIEF, strain	
8	17226	2		CONNECTOR, butt	
9	16705	AR	✂	LOOM, split - 1/4"	
10	15005	AR	✂	WIRE - 10 gauge (Black)	
11	17218	1		TERMINAL, ring	
12	17208	AR	✂	WIRE, 8 gauge (Red)	
13	17223	1		TERMINAL, ring	

☐ Kit or Assembly - includes all items indented underneath.

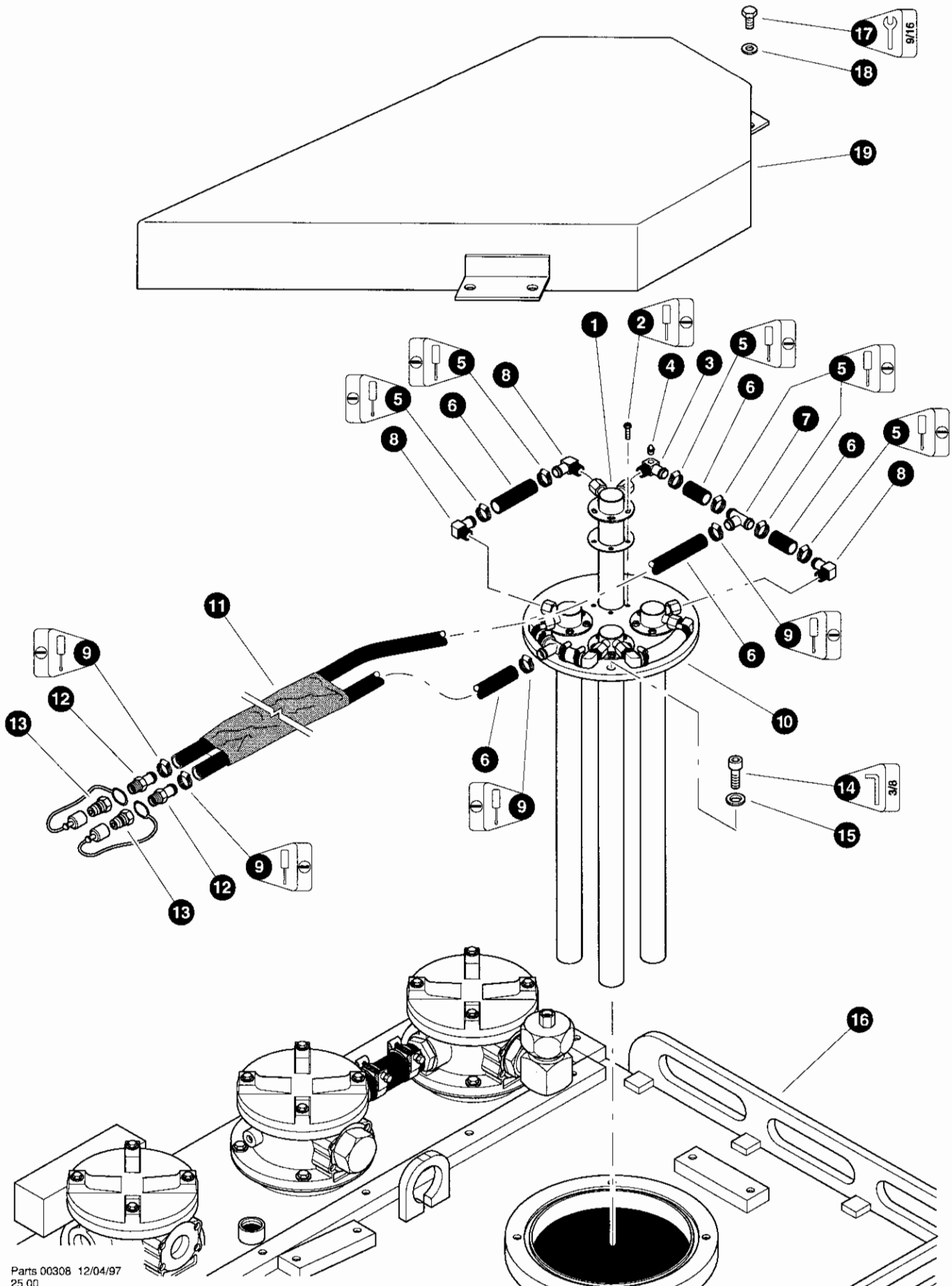
✂ Bulk material - order length required in feet or meters.



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 (Electric hydraulic oil fill pump suction line)	
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 (Electric hydraulic oil fill pump to return oil manifold)	
12	15154	1		ELBOW, 90° - FF1868T-0810S	
13	18455	1		BRACKET, hydraulic fill pump mounting	

✓ See referenced page for component or assembly breakdown.

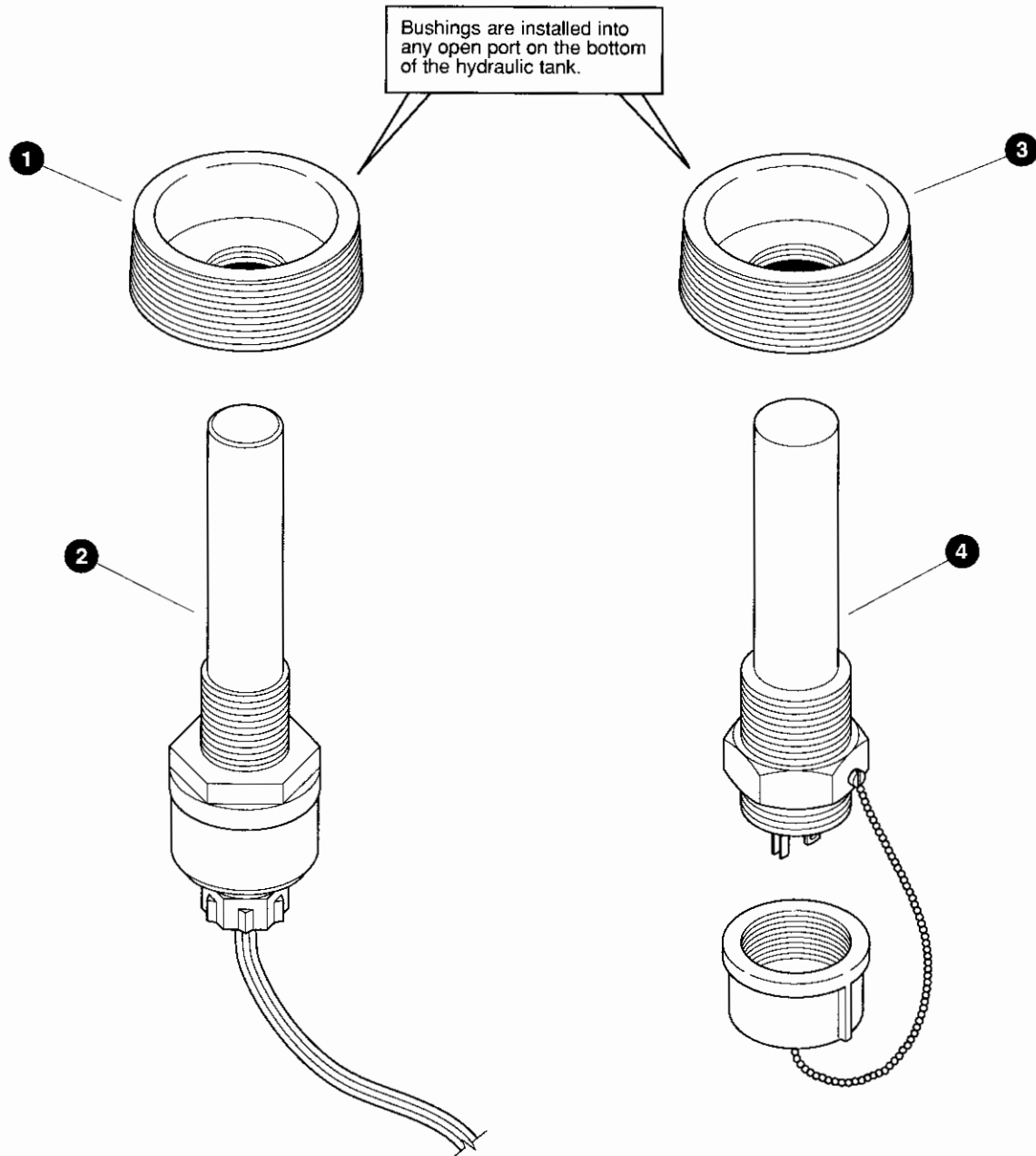


Parts 00308 12/04/97
25.00

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 (Tapped for bleeder screw)	
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.

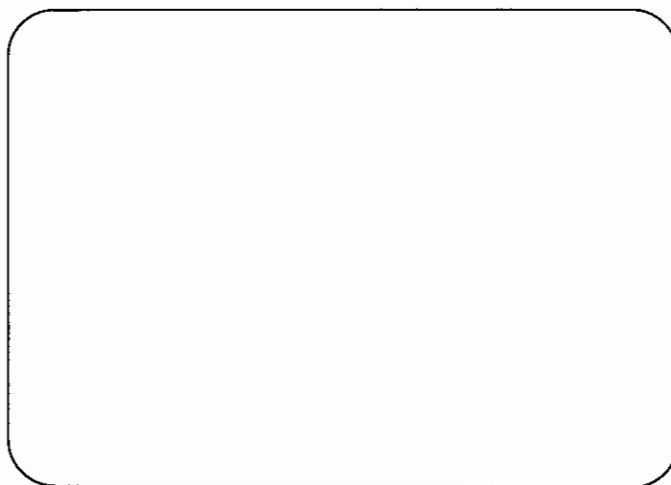


OPTIONAL IN-TANK ELECTRIC HYDRAULIC OIL HEATERS

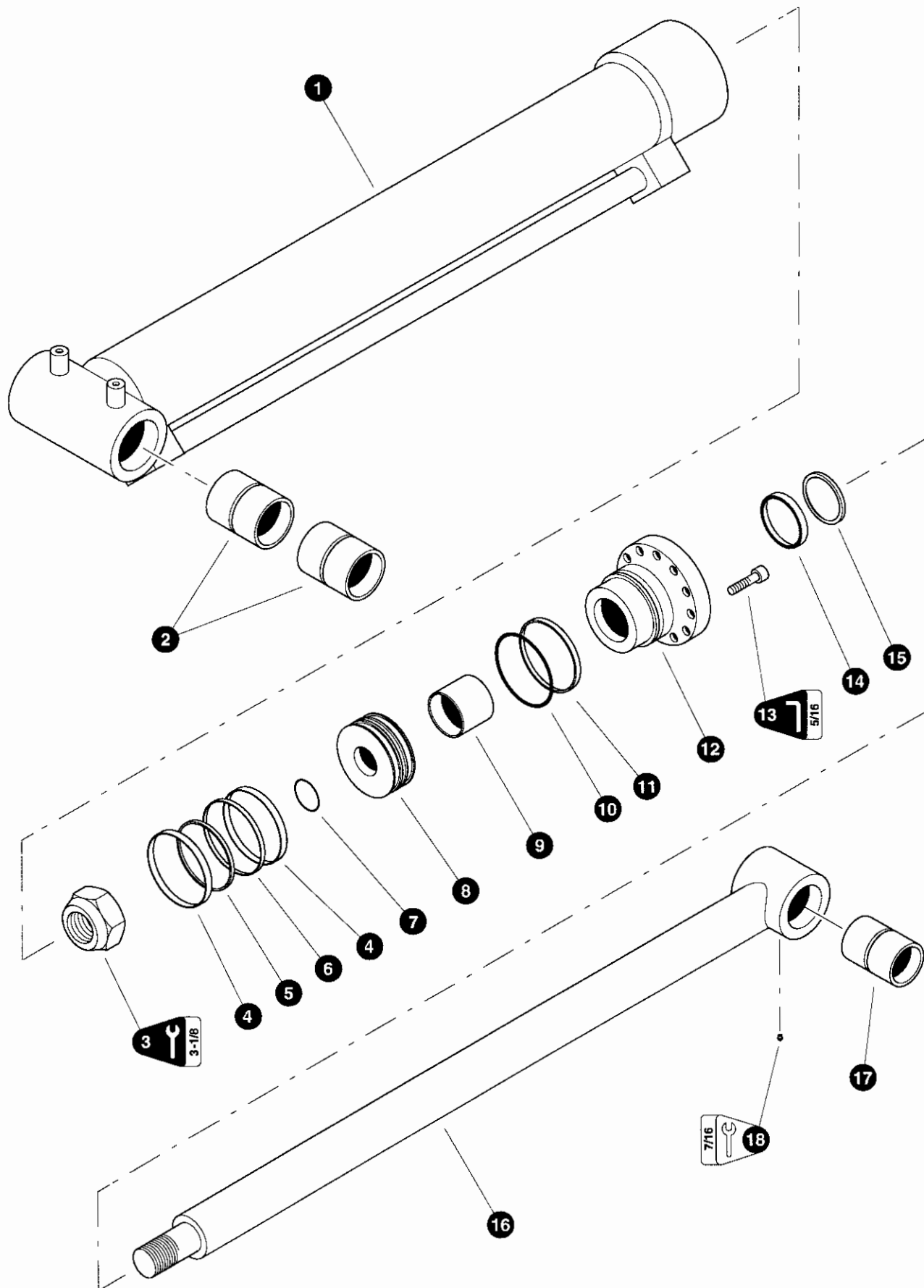
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	19318	1	BUSHING, black reducer - 3" x 1"	
2	19286	1	HEATER ASSEMBLY (120V / 600W)	
3	20068	1	BUSHING, black reducer - 3" x 1-1/4"	
4	20069	1	HEATER ASSEMBLY (120V / 500W)	

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Hydraulic Tank & Cylinders - Cylinders



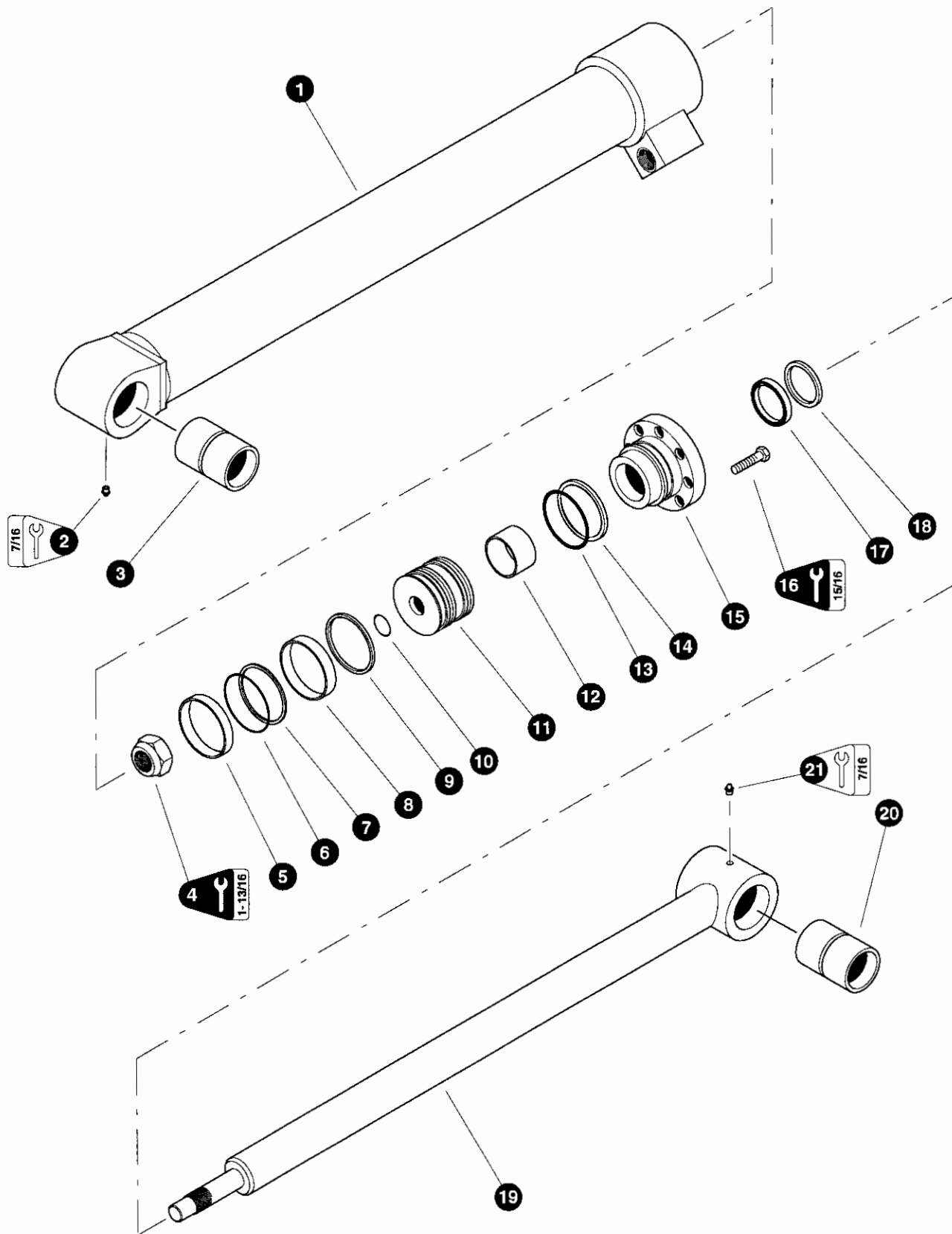
00264 09/07/97
18.75

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 (<i>Torque to 2700 +/- 200 ft.lbs. (3600 +/- 265 Nm)</i>)	
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" (<i>Torque to 175 ft.lbs (233 Nm)</i>)	
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.



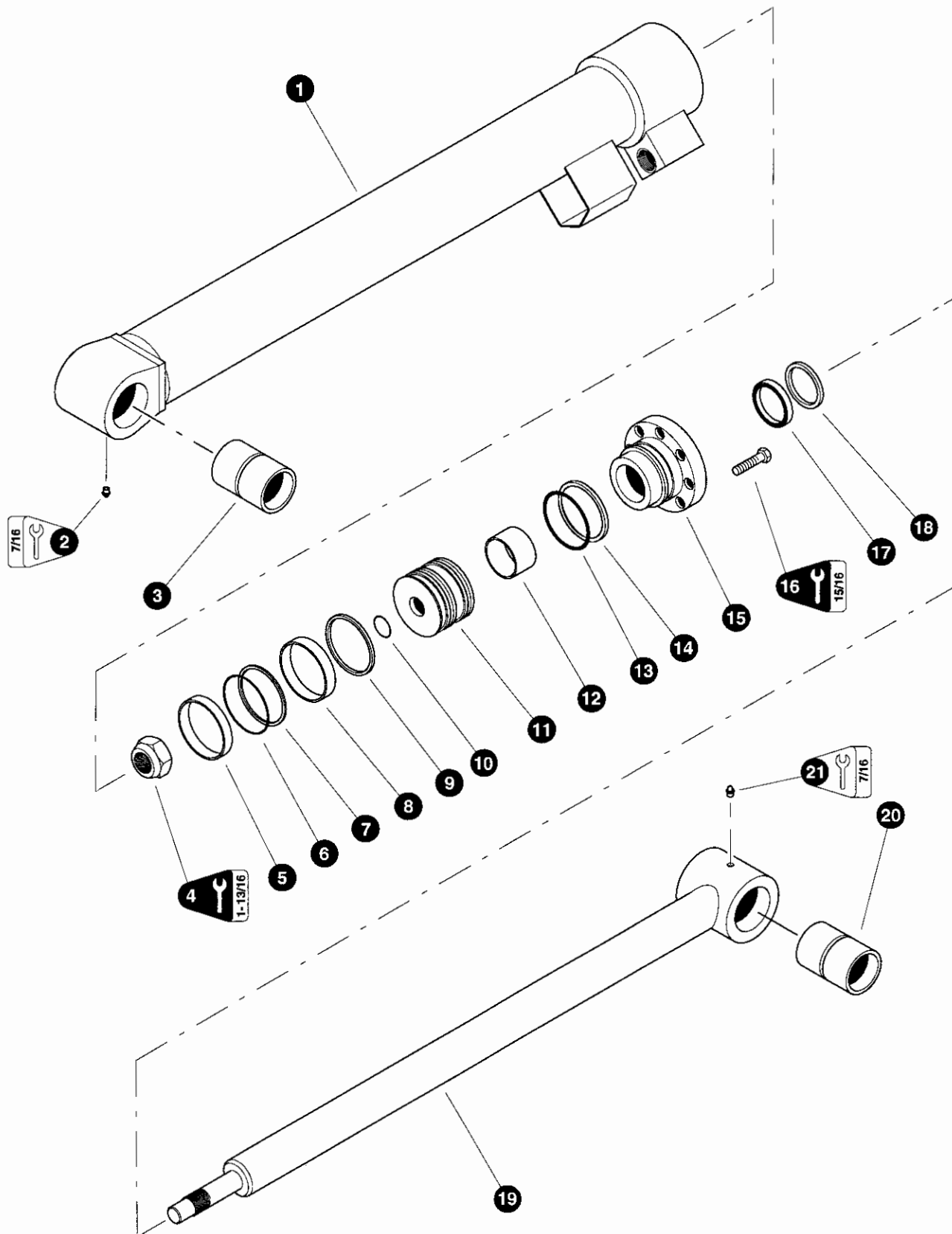
00193 01/17/97
18.75

STICK BOOM (JIB) CYLINDER

(Used on machines PDN# 058FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	19745	1	☐	STICK BOOM CYLINDER ASSEMBLY	
1	19233	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 - 1-3/4" (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 # 19479.



01706 05/23/2000
18.75

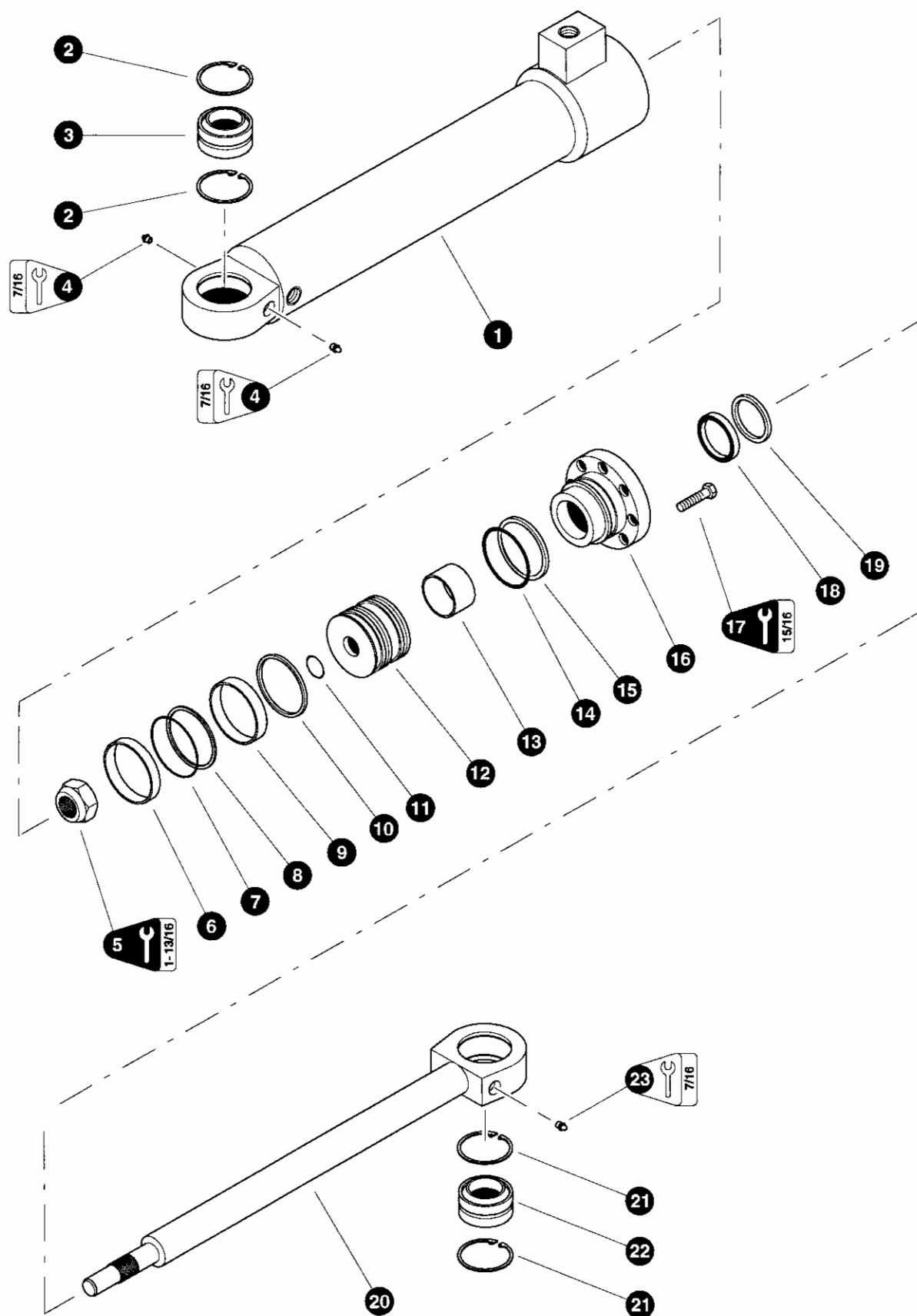
STICK BOOM (JIB) CYLINDER

(Used on machines PDN# 059FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	20860-LB	1	☐	STICK BOOM CYLINDER ASSEMBLY	
1	20864-LB	1	☐	BARREL ASSEMBLY	
2	10704-LB	1		FITTING, straight grease - 1/8" pipe thread	
3	11704-LB	1		BUSHING - 2-1/2" x 4-1/4"	
4	19232-LB	1		NUT, cylinder rod - 1-3/4" (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-LB	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-LB	1		BEARING, rod	
16	15681-LB	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-LB	1	☐	ROD ASSEMBLY	
20	11704-LB	1		BUSHING - 2-1/2" x 4-1/4"	
21	10704-LB	1		FITTING, straight grease - 1/8" pipe thread	
-	19749-LB	1		KIT, seal repair - stick boom cylinder	

☐ Kit or Assembly - includes all items indented underneath.

★ Included in seal repair kit Part # 19479-LB.

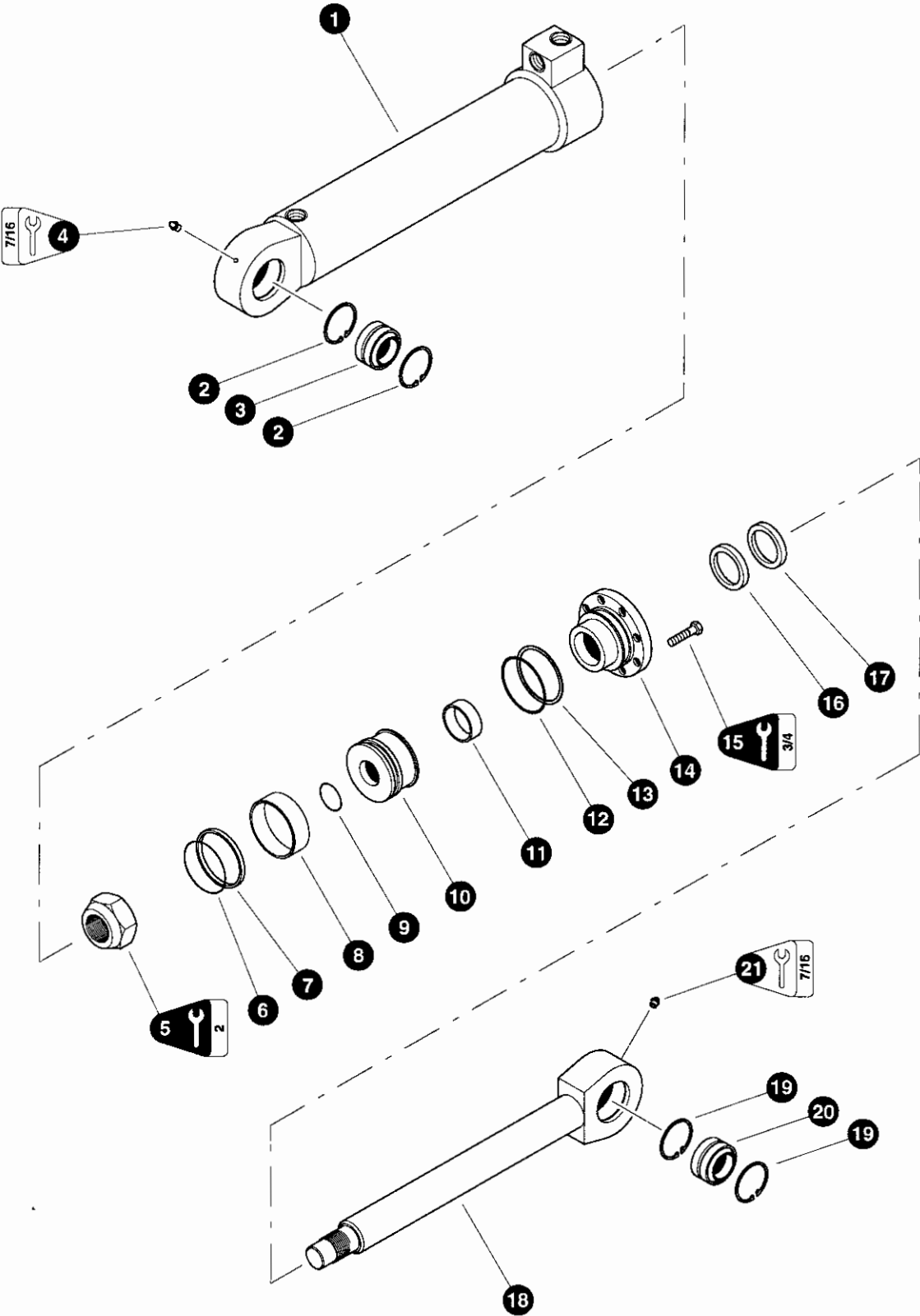


00194 01/17/97
18.75

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.



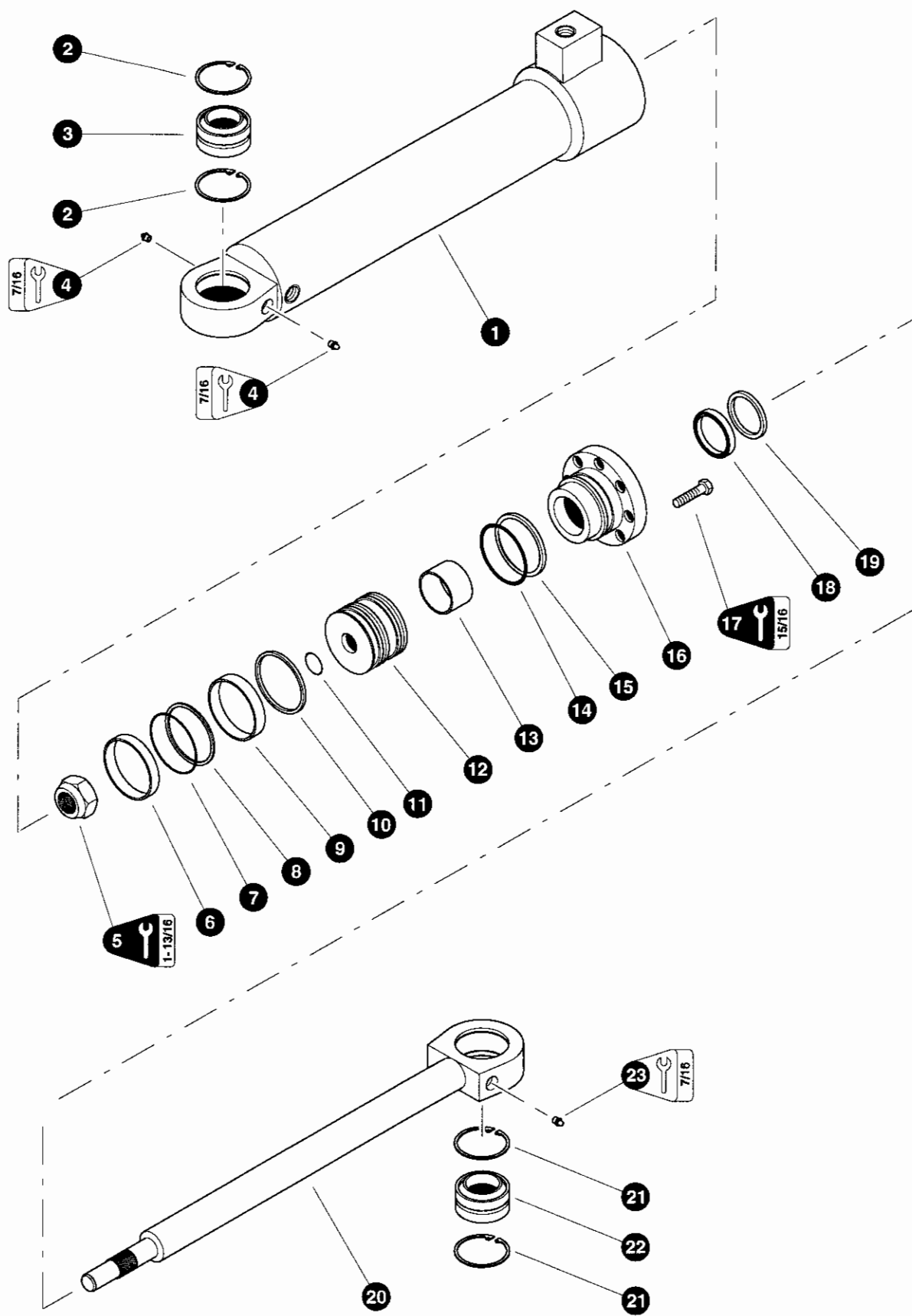
00195 01/17/97
18.75

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" (<i>Torque to 600 +/- 50 ft.lbs. (800 +/- 65 Nm)</i>)	
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" (<i>Torque to 90 ft.lbs (120 Nm)</i>)	
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.



00194 01/17/97
18.75

OPTIONAL CLAM ARM CYLINDER - 4" BORE

(Used on some machines PDN# 043FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
				NOTE: Early production machines used the same 4" (127 mm) bore diameter cylinder for steering and the optional clam bunk. Later production machines use different cylinders for steering and clam arms.	
-	19746	2	☐	CLAM ARM CYLINDER ASSEMBLY (See verification information below before ordering parts)	
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/clam arm cylinder - 4"	

☐ Kit or Assembly - includes all items indented underneath.

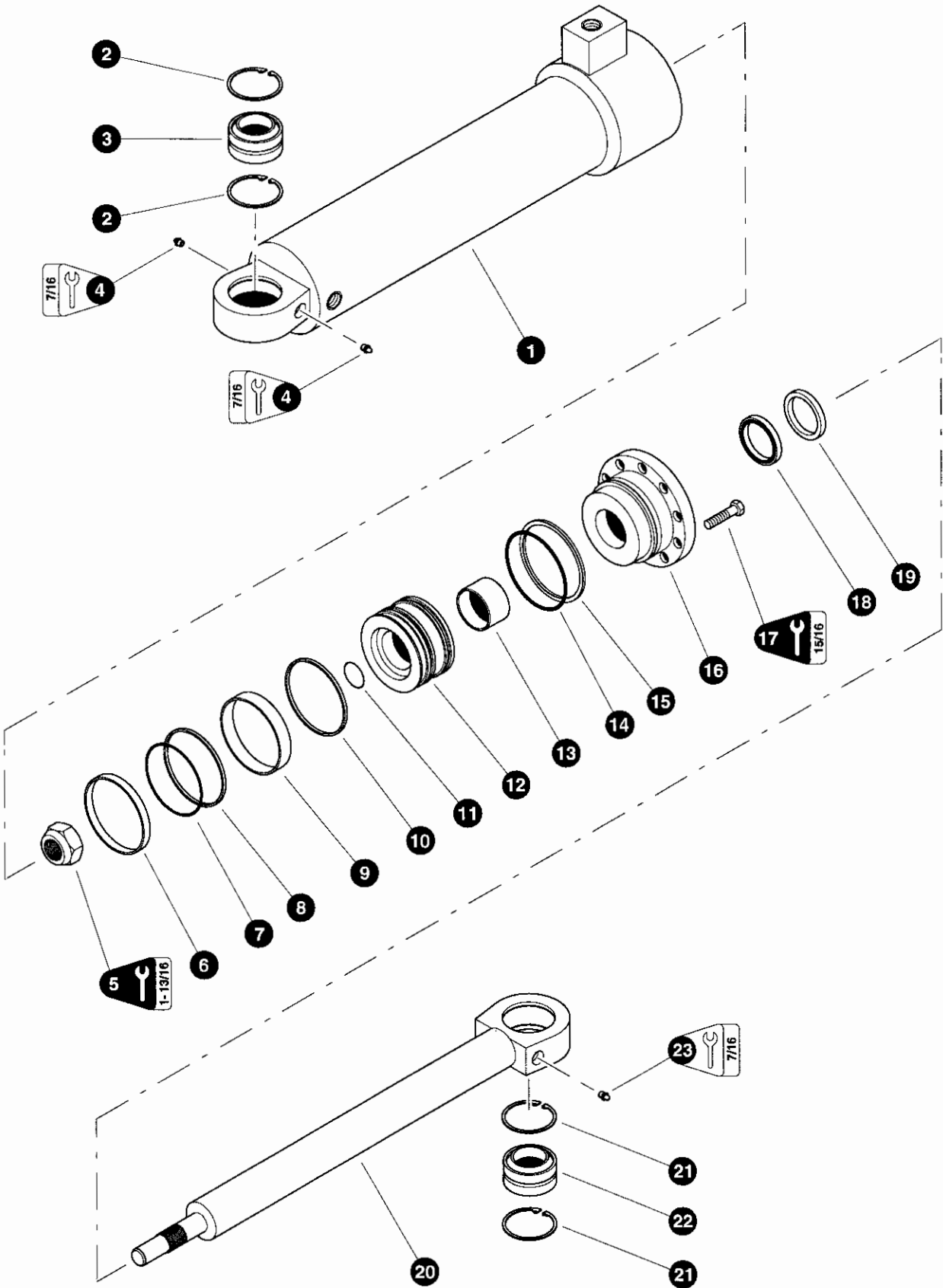
★ Included in seal repair kit Part # 19750.

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.



00268 09/08/97
18.75

OPTIONAL CLAM ARM CYLINDER - 5" BORE

*(Used on some machines PDN# 043FWD and below
and all machines PDN# 044FWD and above)*

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"	

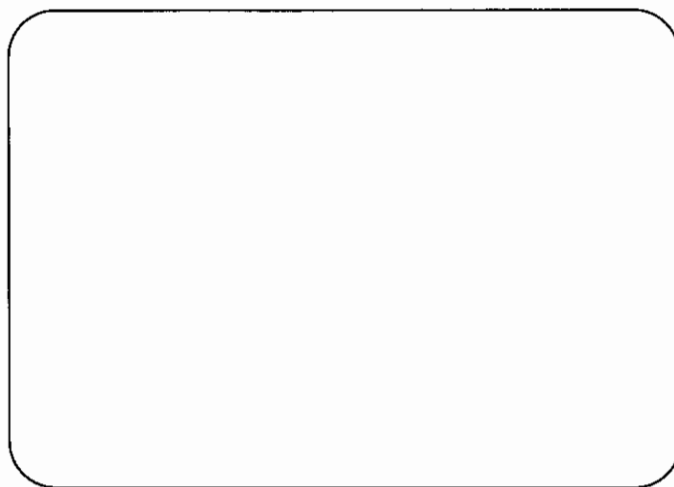
- ☐ Kit or Assembly - includes all items indented underneath.
★ Included in seal repair kit Part # 19964.

Verification Information:

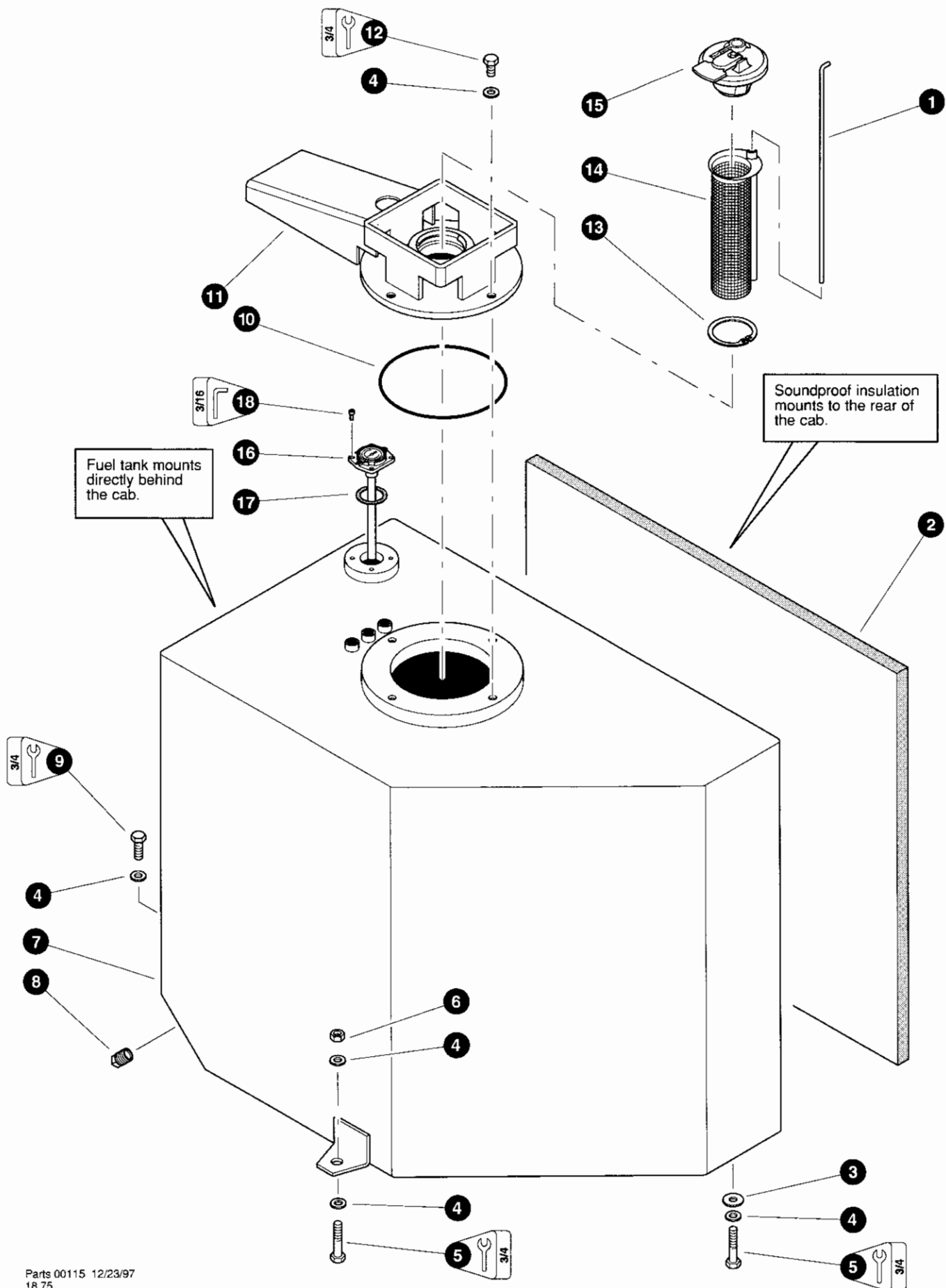
There have been two sizes of clam arm cylinders...

- 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.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



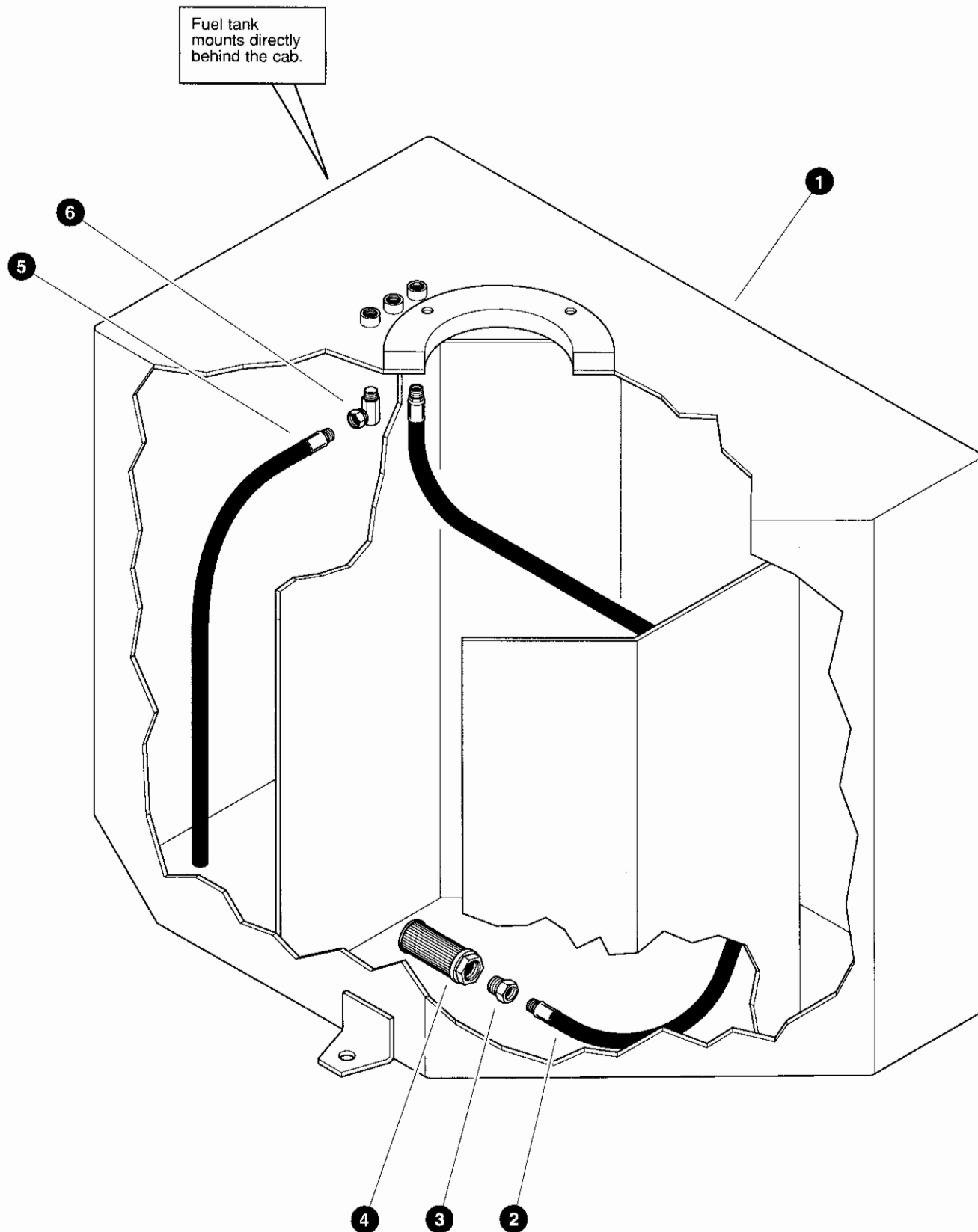
Engine Installation - Fuel System (All Engines)



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 1/2"	
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.



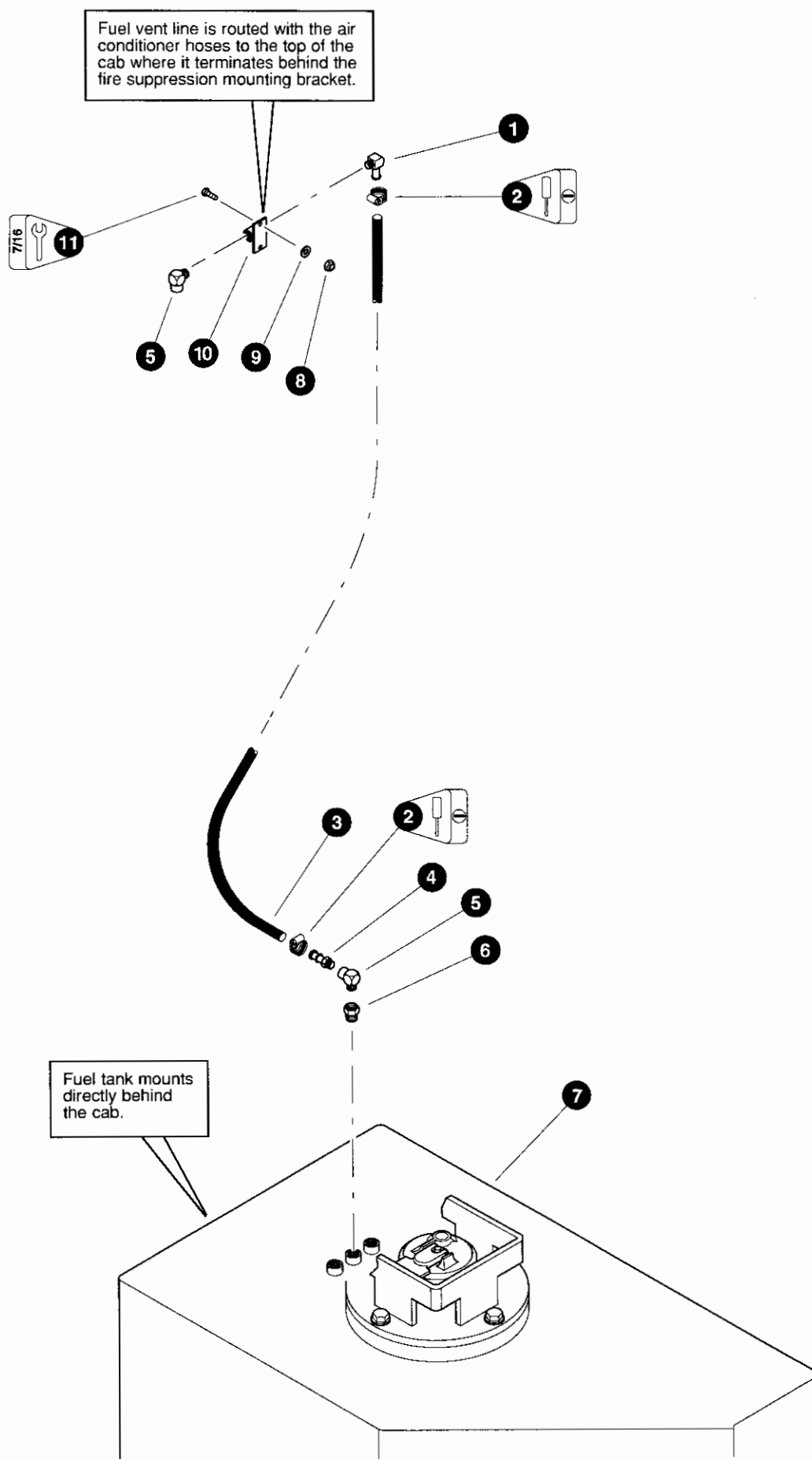
Parts 00400 01/28/98
25.00

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 (Fuel supply port to inner baffle screen filter inside tank)	
3	15630	1		BUSHING, reducer - 5406-8-6	
4	17271	1		FILTER, screen - fuel system	
5	20416	1		HOSE ASSEMBLY - 2030-06-06PS (Fuel return port to outer baffle inside tank)	
6	10394	1		ELBOW, 90° swivel - 1501-6-6	

✓ See referenced page for component or assembly breakdown.



Fuel tank mounts directly behind the cab.

FUEL LINES

(Fuel Tank Vent)

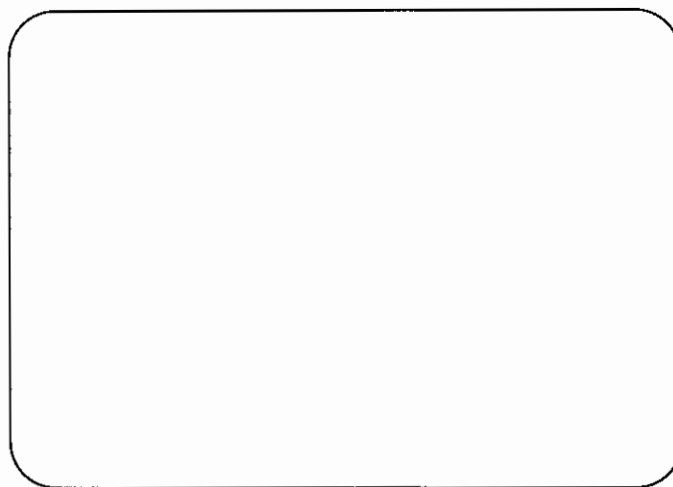
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	16202	2		CLAMP, hose - worm style - 5/8"	
2	19215	1		ELBOW, pushlock	
3	16238	AR	✂	HOSE, fuel line - 5/16"	
4	10760	1		CONNECTOR, hose	
5	16251	2		ELBOW, 90° street - 5502-4	
6	11318	2		BUSHING, reducer - 5406-6-4	
7	REF.	1	✓	FUEL TANK	F.1.2
8	15509	1		NUT, nylock - 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 meters.

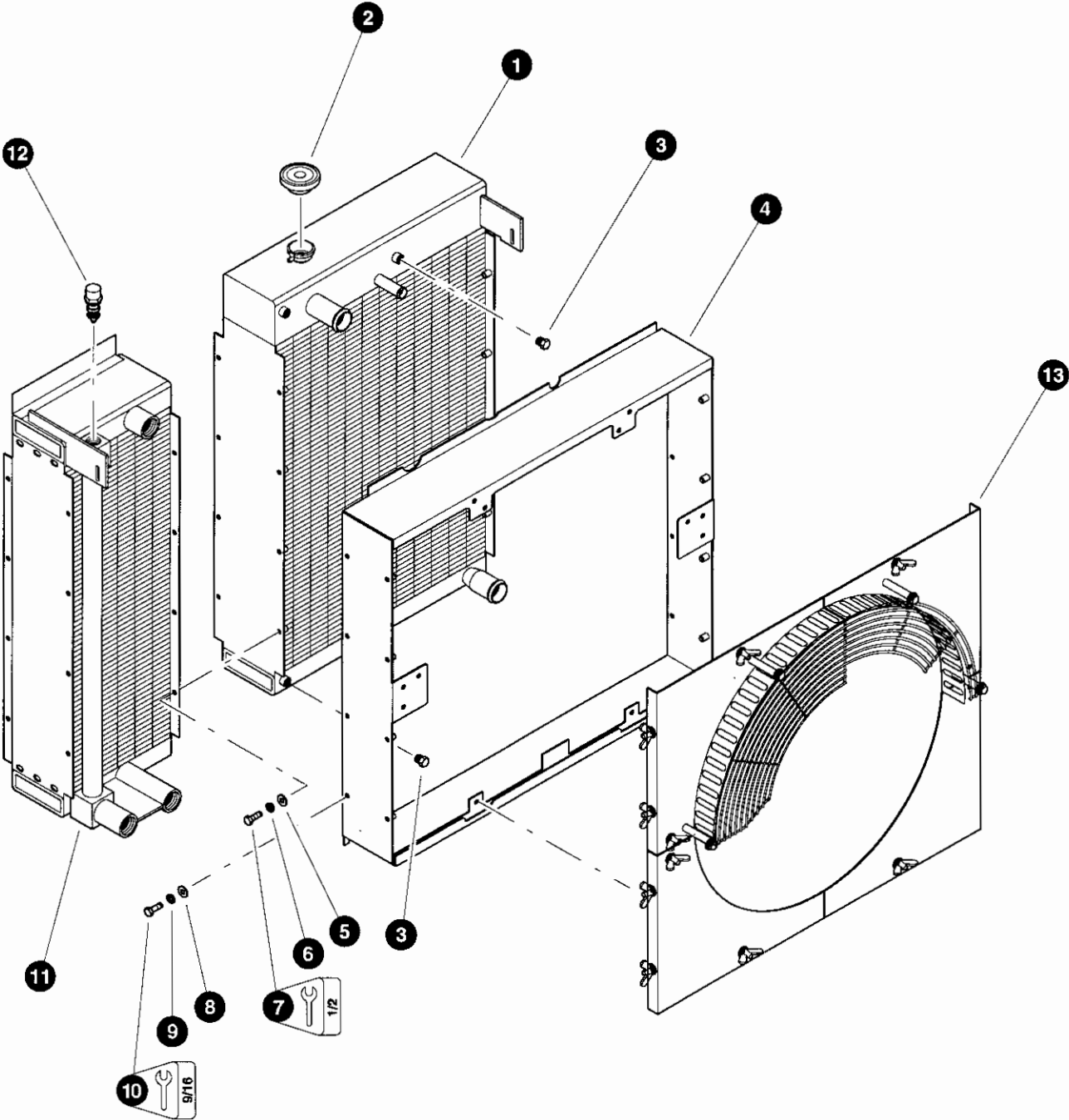
✓ See referenced page for component or assembly breakdown.

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Engine Installation - Cooling System (All Engines)



Parts 00121 08/06/96
12.50

RADIATOR/OIL COOLER ASSEMBLY

(Karmazin)(See Verification Information Below)

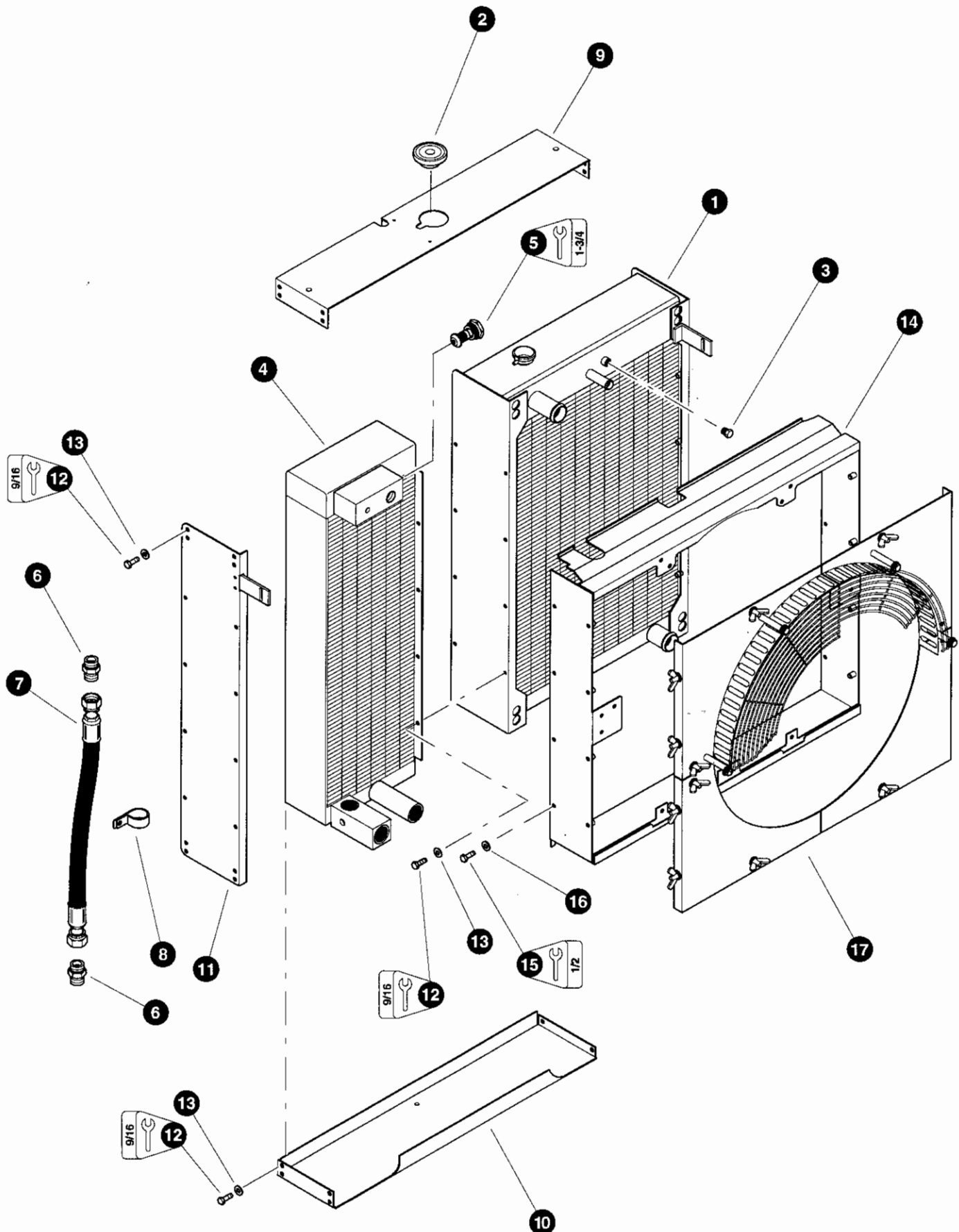
REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	18089	1	☐	RADIATOR/OIL COOLER ASSEMBLY	
1	18090	1	☐	RADIATOR	
2	15897	1		CAP, radiator	
3	15515	2		PLUG - 5406-P-4	
4	18263	1		EXTENSION, fan box	
5	15559	8		WASHER, SAE flat - 5/16"	
6	15606	8		WASHER, lock - 5/16"	
7	15589	8		BOLT - 5/16" x 1"	
8	15528	8		WASHER, 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)(See Verification Information Below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	21160	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

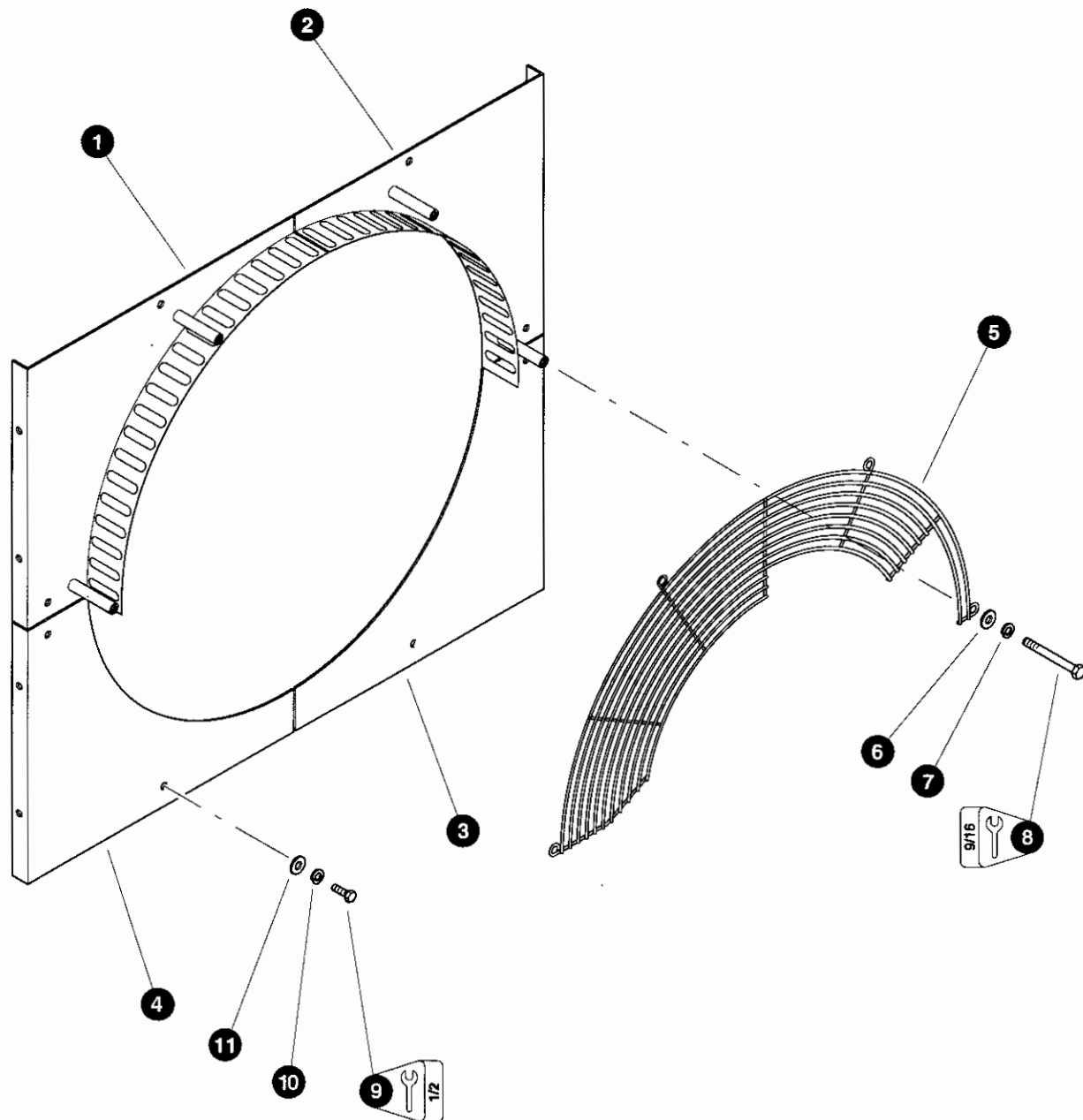
☐ Kit or Assembly - includes all items indented underneath.

☒ 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 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"	

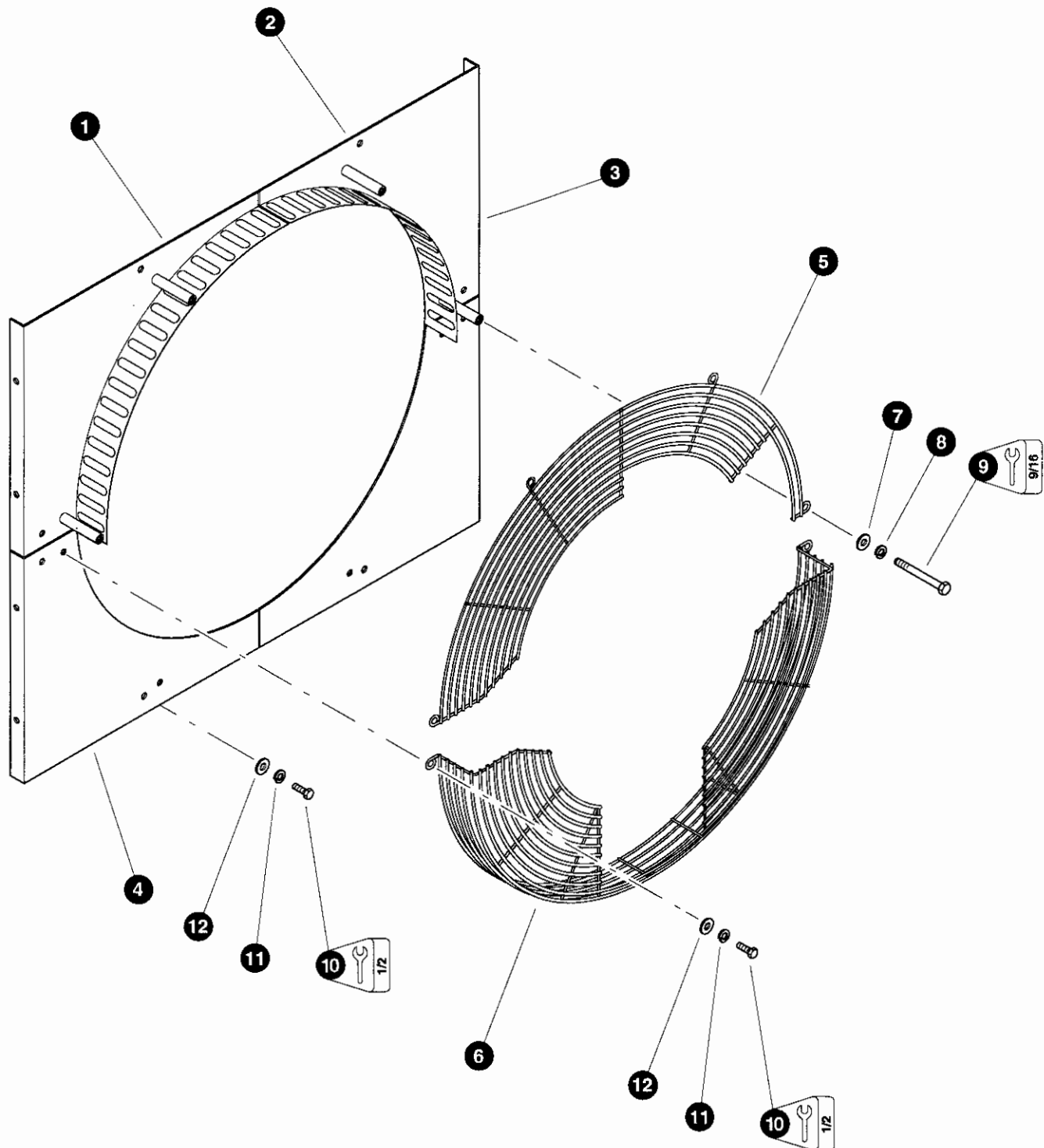
☐ Kit or Assembly - includes all items indented underneath.

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
-	18714	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	19049	1		SHROUD, radiator - RH lower	
4	19048	1		SHROUD, radiator - LH lower	
5	18262	1		GUARD, fan - upper	
6	21214	1		GUARD, fan - lower	
-	22661	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	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	
7	15528	8		WASHER, SAE flat - 3/8"	
8	10701	8		WASHER, lock - 3/8"	
9	10713	8		BOLT - 3/8" x 3-1/2"	
10	15589	16		BOLT - 5/16" x 1"	
11	15606	16		WASHER, lock - 5/16"	
12	15559	16		WASHER, SAE flat - 5/16"	

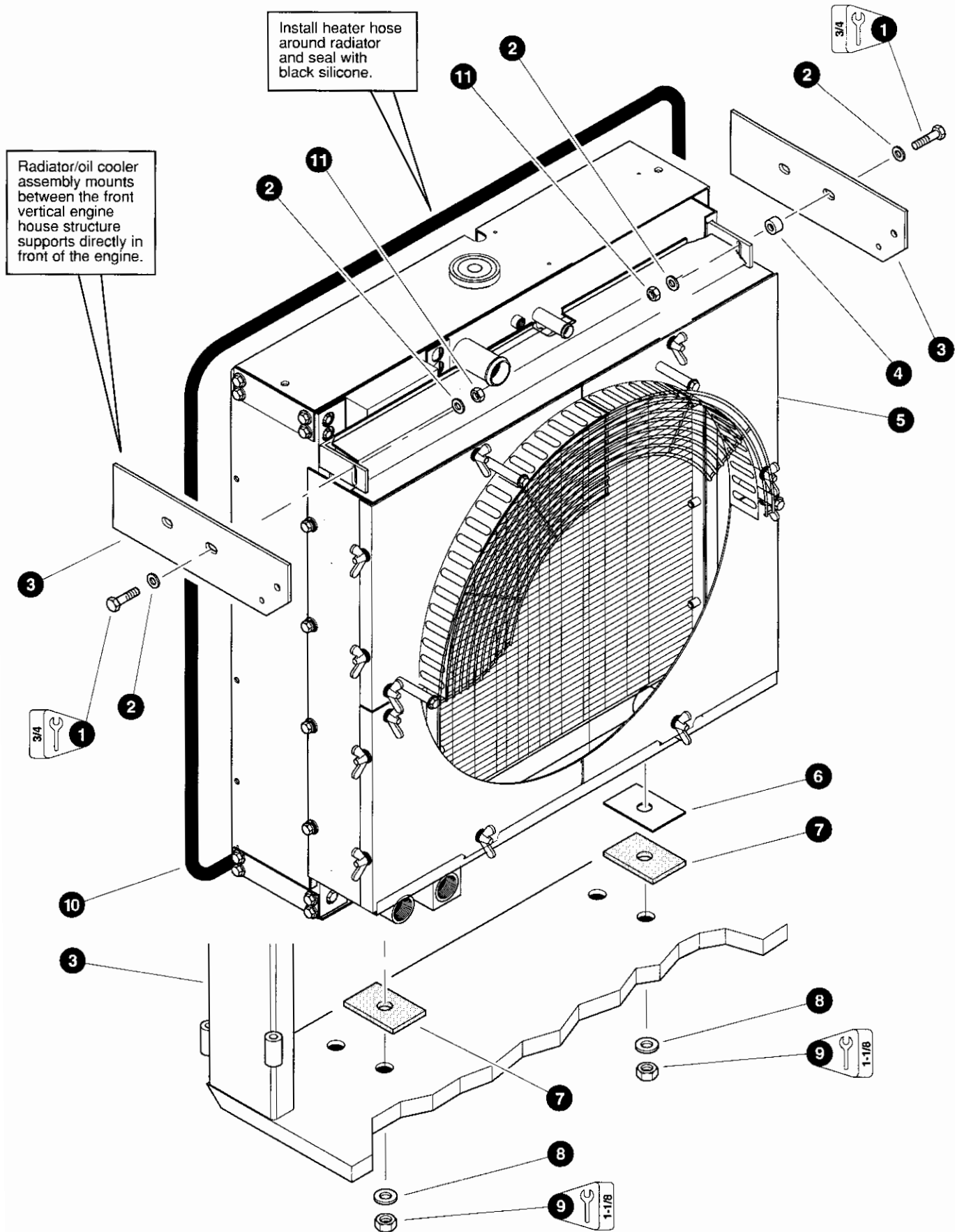
☐ Kit or Assembly - includes all items indented underneath.

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.

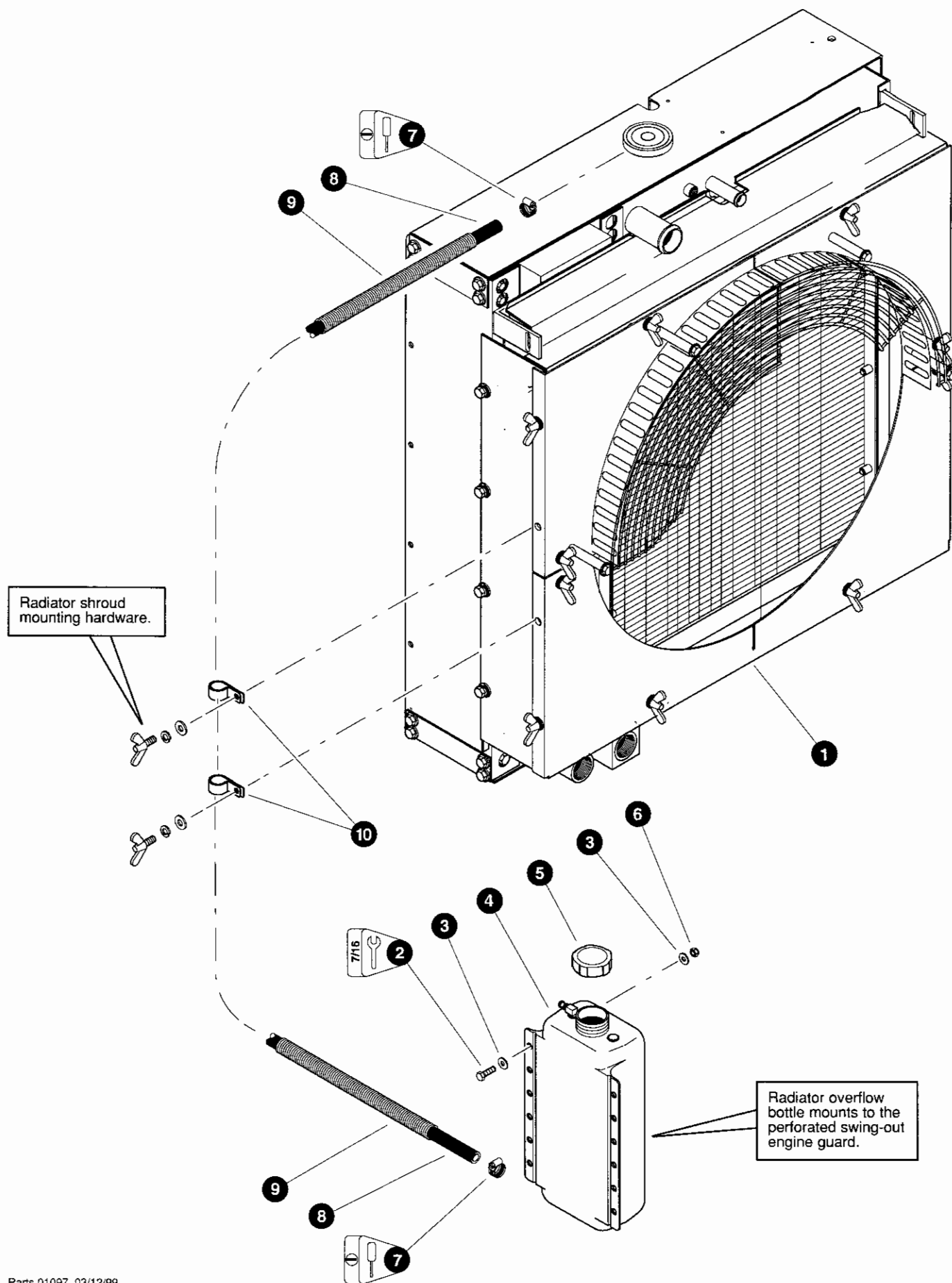


RADIATOR/OIL COOLER INSTALLATION

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

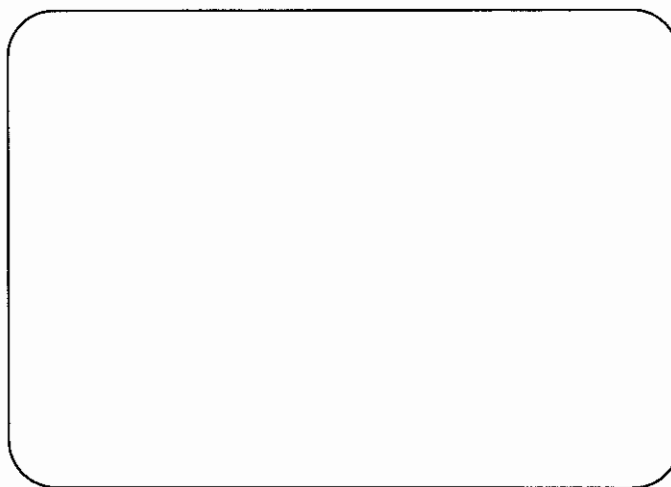
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY (Karmazin)	F.2.2
	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY (Thermal Dynamic)	F.2.4
2	15576	4		BOLT - 1/4" x 1"	
3	10800	8		WASHER, flat- 1/4"	
4	16925	1		BOTTLE, radiator overflow	
5	19119	1		CAP, radiator overflow bottle	
6	15509	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.

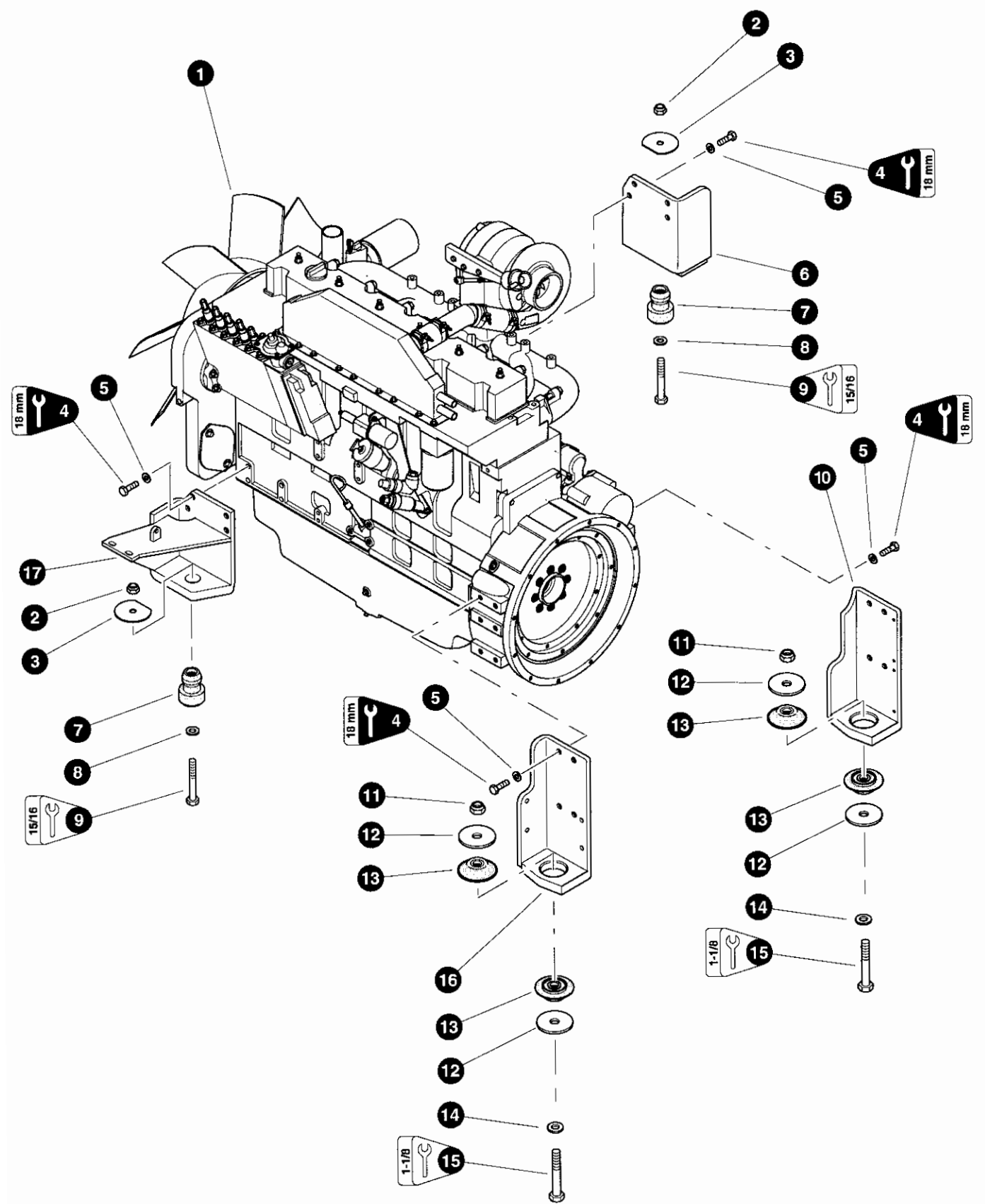
✂ Bulk material - order length required in feet or meters.

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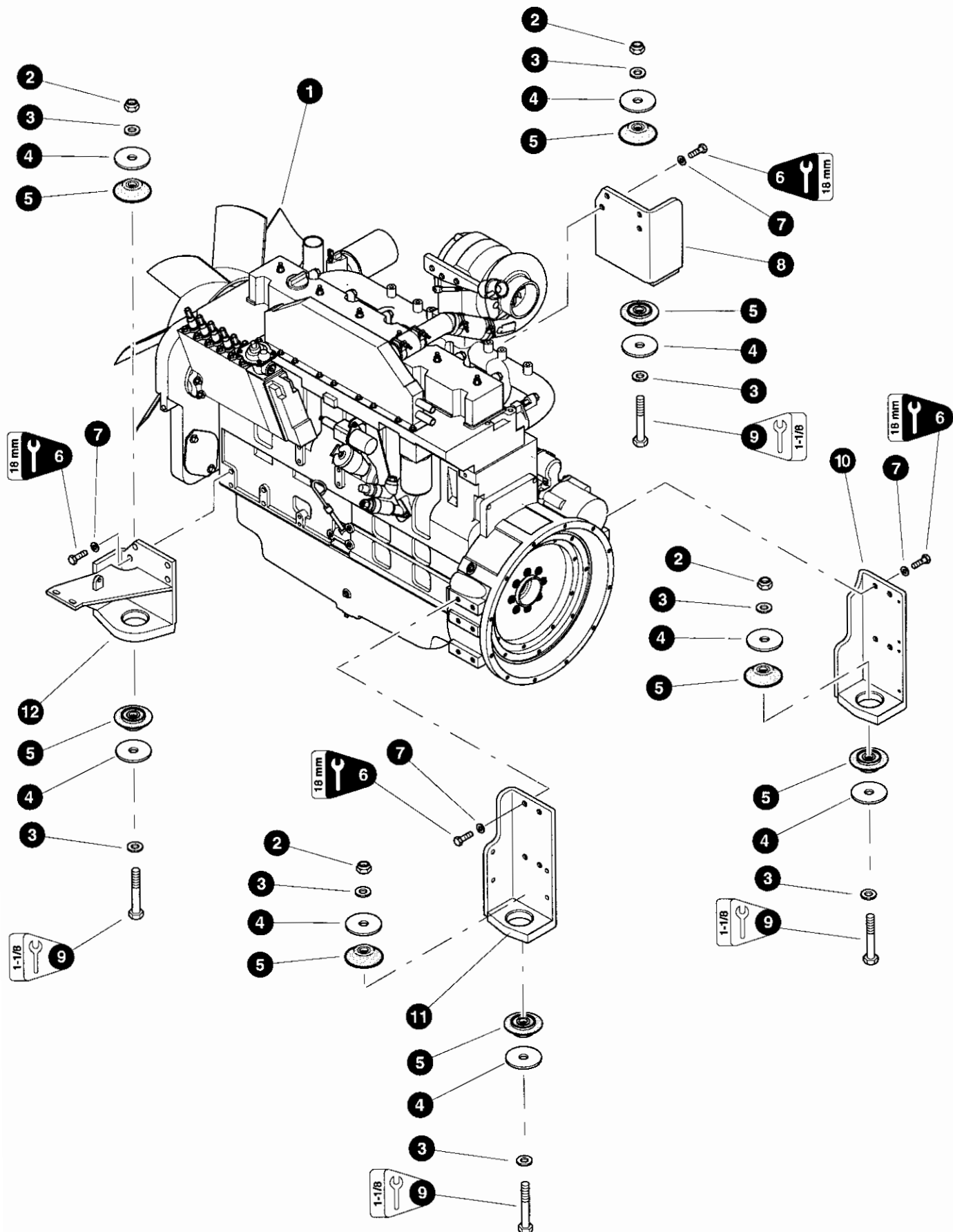
Engine Installation - Cummins 6C8.3-C 260HP (Standard)



ENGINE INSTALLATION

(Used on machines PDN# 053FWD and below)

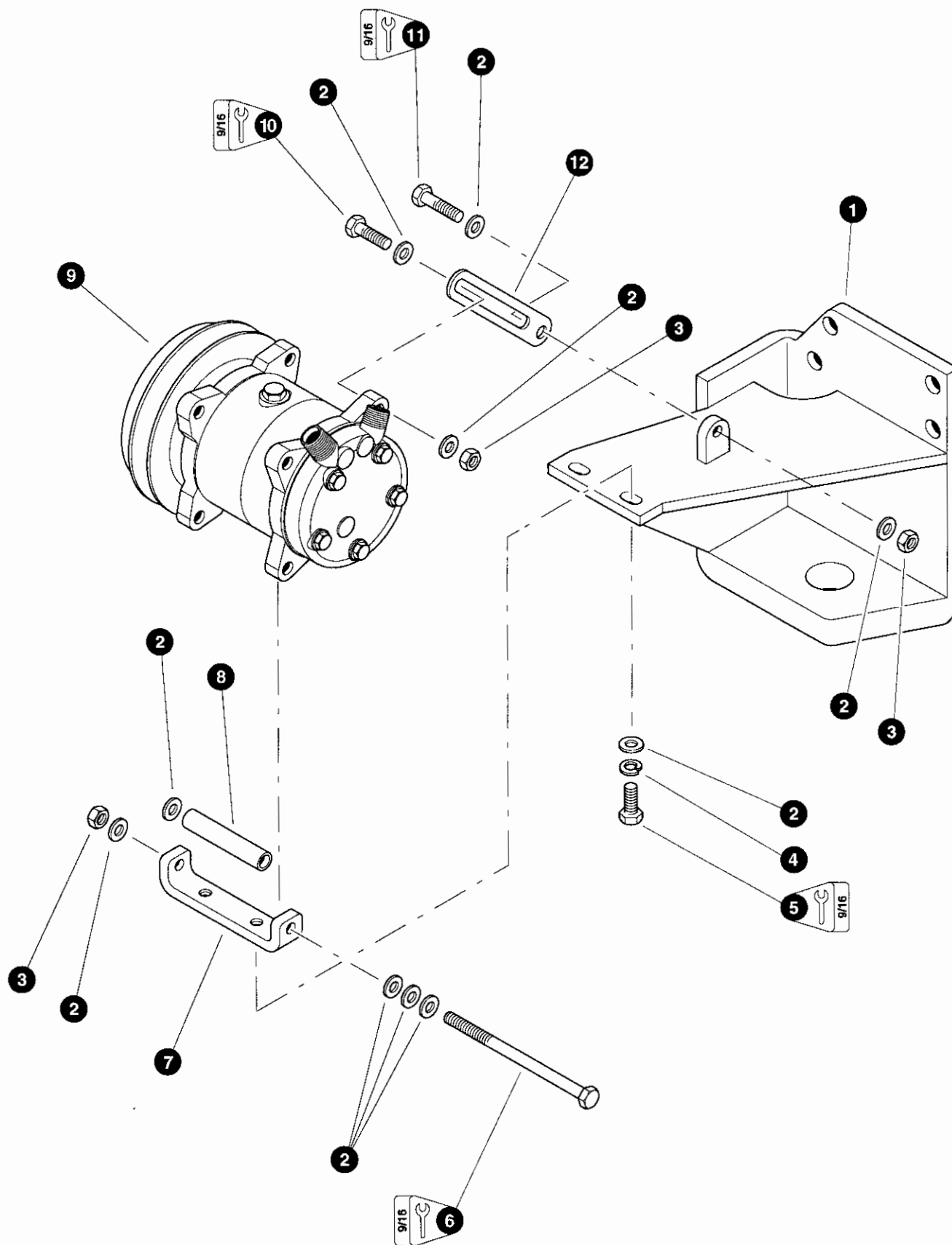
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	18745	1	ENGINE, Cummins - C8.3-C 260HP	
2	10816	2	NUT, lock - 5/8"	
3	15524	2	WASHER, isolator mount - 5/8" x 3-1/2"	
4	15551	16	BOLT - 12mm-1.75P x 40mm (Torque to 92 ft.lbs. (122 Nm))	
5	18735	16	WASHER, flat -12mm	
6	19760	1	MOUNT, engine - RH front	
7	15525	2	ISOLATOR, engine mount	
8	10771	2	WASHER, SAE flat - 5/8"	
9	10723	2	BOLT - 5/8" x 4-1/2"	
10	19762	1	MOUNT, engine - RH rear	
11	10817	2	NUT, lock - 3/4"	
12	17918	4	WASHER, isolator mount - 7/8" x 3-1/2"	
13	17904	4	ISOLATOR, engine mount - rear	
14	15550	2	WASHER, SAE flat - 3/4"	
15	10844	2	BOLT - 3/4" x 5"	
16	19761	1	MOUNT, engine - LH rear	
17	19759	1	MOUNT, engine - LH front	



Parts 00981 12/09/98
12.50

ENGINE INSTALLATION*(Used on machines PDN# 054FWD and above)*

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 (<i>Torque to 92 ft.lbs. (122 Nm)</i>)	
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	

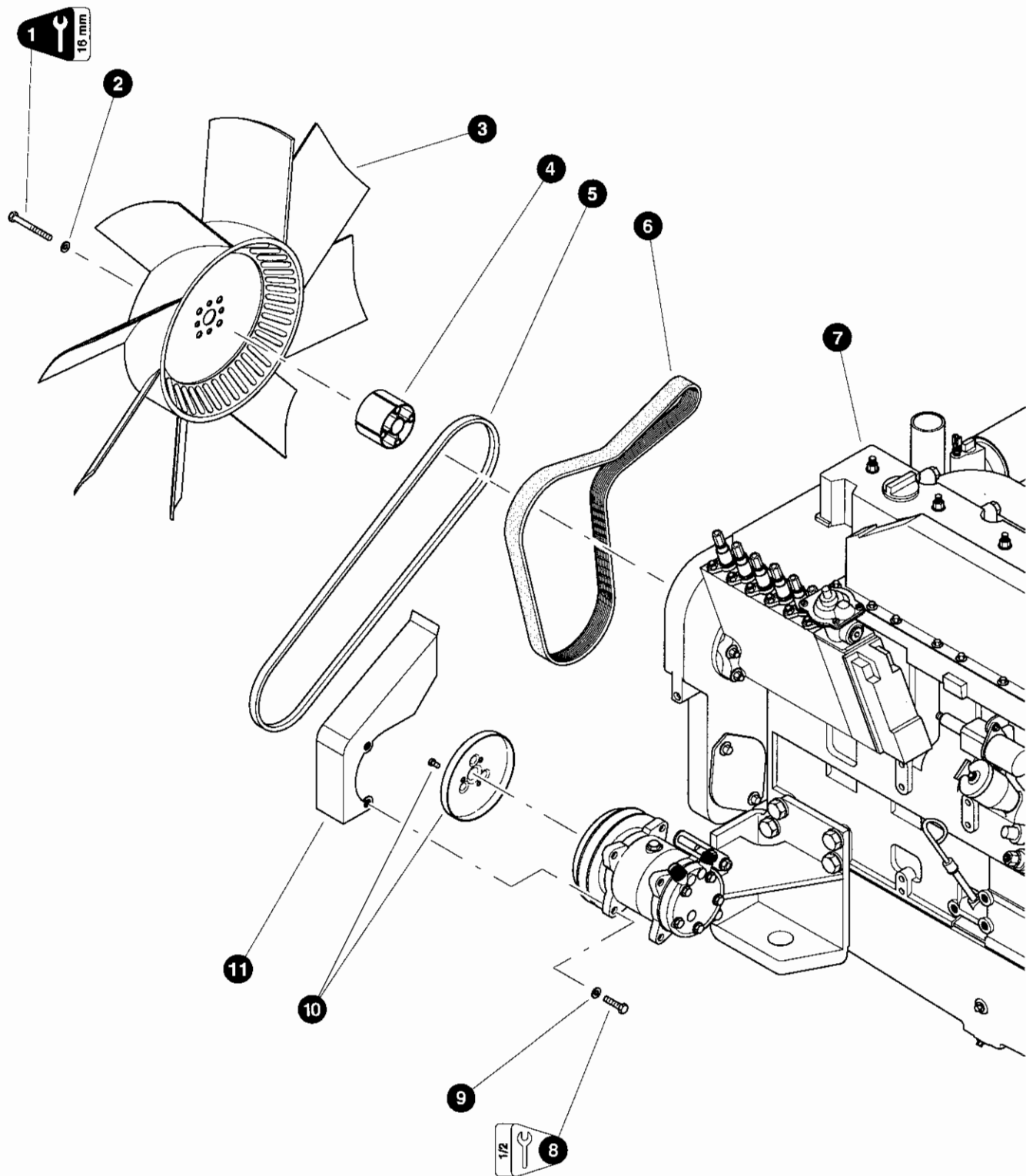


Parts 00419 02/01/98
37.50

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.



ENGINE FAN & BELTS*(Used on machines built before May 1, 1998 - approximate)*

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	18761	1	FAN, engine - sucker - 26" high pitch (See verification information below before ordering parts)	
	16382	1	FAN, engine - sucker - 26" (See verification information below before ordering parts)	
	15801	1	FAN, engine - blower - 26" (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:

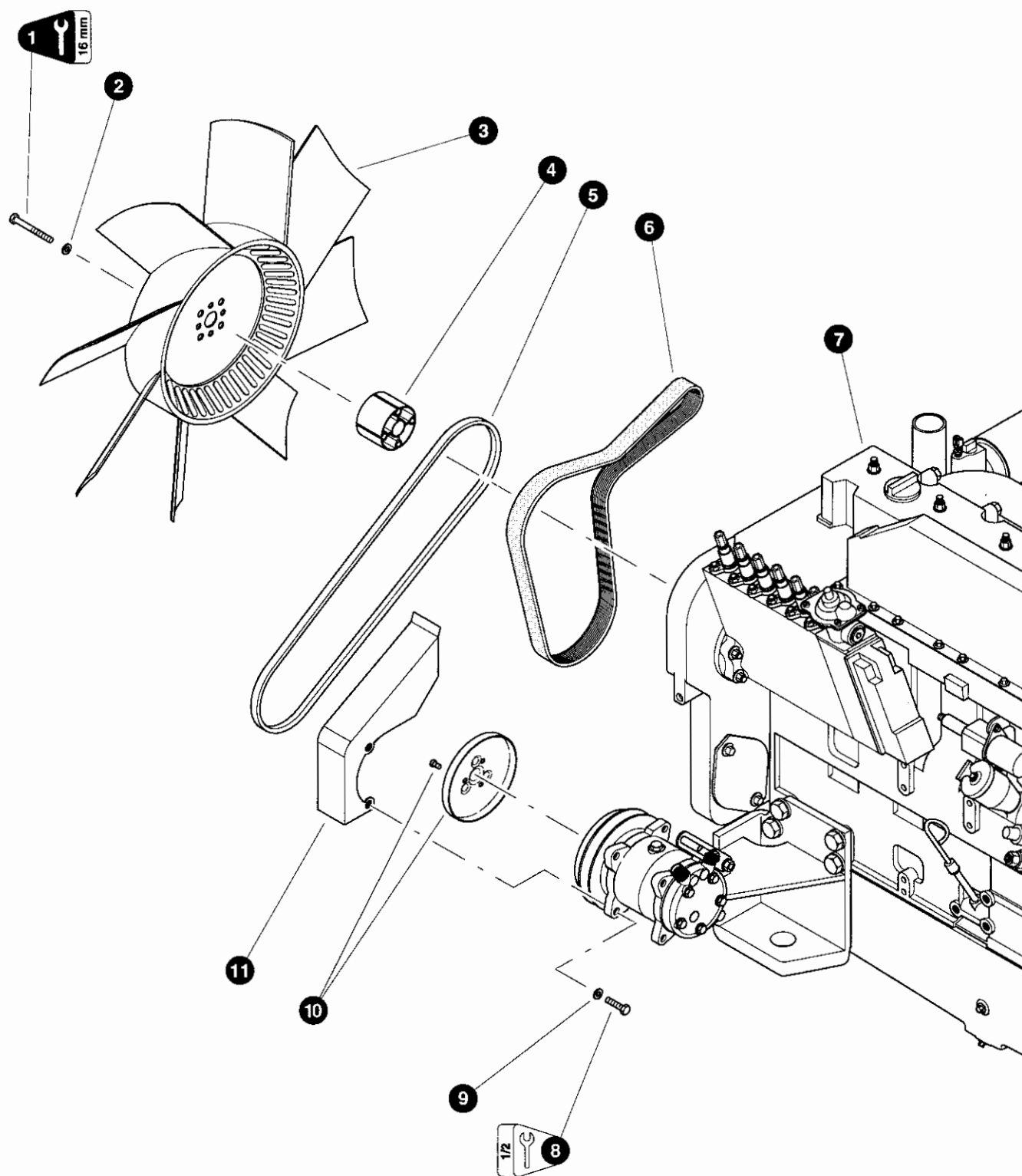
Use Loctite 272 (blue) during installation.

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.



ENGINE FAN & BELTS

(Used on machines built after May 1, 1998 - approximate)

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:

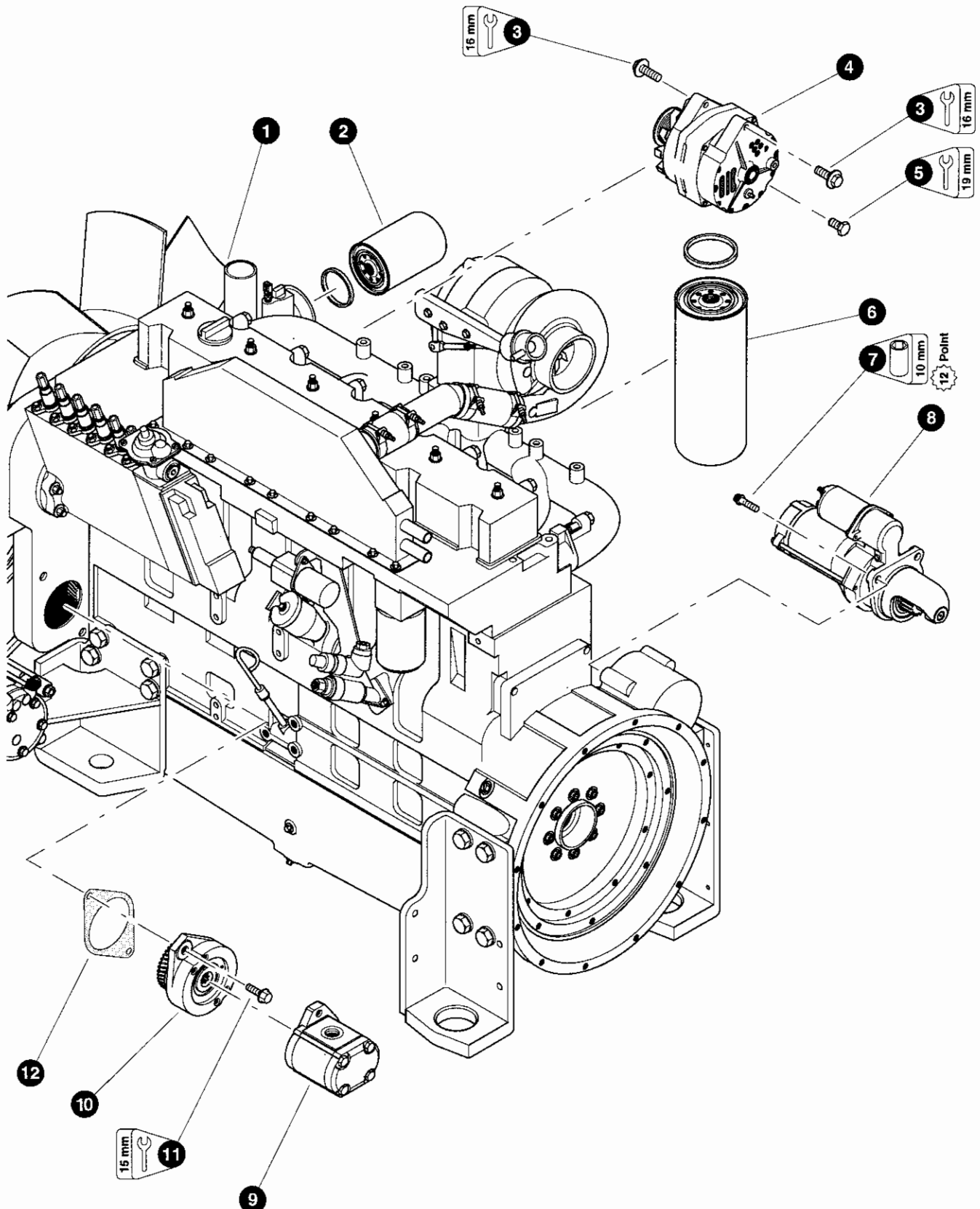
Use Loctite 272 (blue) during installation.

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.

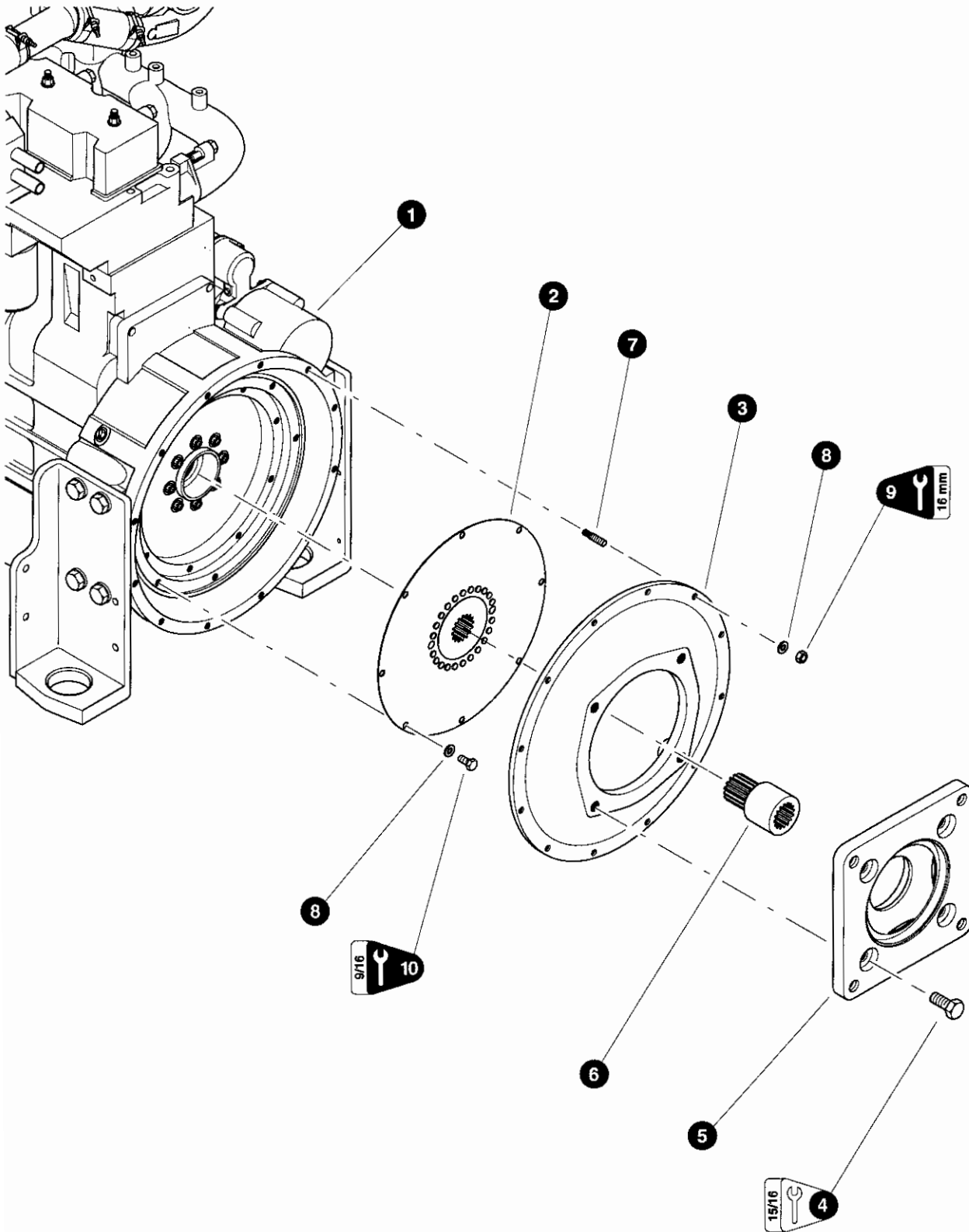


Parts 00421 04/25/98
18.75

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	15805	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 (Funk)

(Used on machines PDN# 070FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ENGINE - Cummins C8.3-C	F.3.2
-	19776	1	□	TRANSMISSION, single pump drive	
2	16258	1		DRIVE PLATE	
3	NSS	1		HOUSING	
4	20447	4		BOLT, adapter mounting	
5	20446	1		ADAPTER, pump drive - SAE "E"	
6	20419	1		SHAFT, drive	
7	15531	12		STUD, threaded - 10mm x 45mm (See Note #1 below)	
8	15528	20		WASHER, SAE flat - 3/8"	
9	15530	12		NUT, hex - 3/8" (See Note #2 below)	
				(Torque to 40 ft.lbs. (53 Nm))	
10	15542	8		BOLT - 3/8" x 3/4" (See Note #1 below)	
				(Torque to 40 ft.lbs. (53 Nm))	

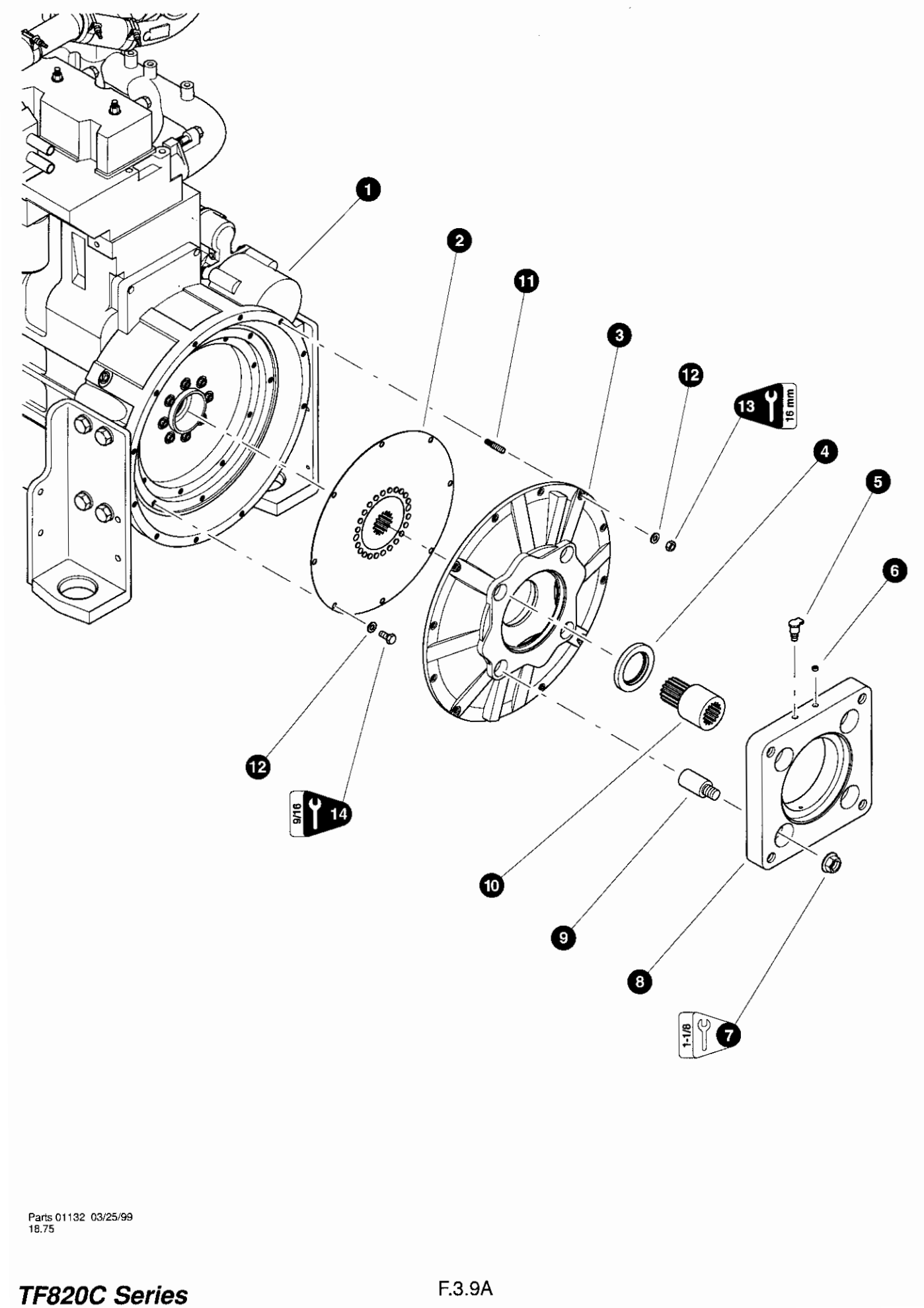
- ✓ See referenced page for component or assembly breakdown.
 □ Kit or Assembly - includes all items indented underneath.

Note #1:

Use Loctite 271 (red) during installation.

Note #2:

Use Loctite 272 (blue) during installation.



Parts 01132 03/25/99
18.75

SINGLE PUMP TRANSMISSION INSTALLATION (Superior)

(Used on machines PDN# 071FWD and above)

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	----	4		BOLT, press fit - 3/4"	
9	21970	1		ADAPTER, pump drive - SAE "E"	
10	----	1		SHAFT, drive	
11	15531	12		STUD, threaded - 10mm x 45mm (See Note #1 below)	
12	15528	20		WASHER, SAE flat - 3/8"	
13	15530	12		NUT, hex - 3/8" (See Note #2 below)	
				(Torque to 40 ft.lbs. (53 Nm))	
14	15542	8		BOLT - 3/8" x 3/4" (See Note #1 below)	
				(Torque to 40 ft.lbs. (53 Nm))	

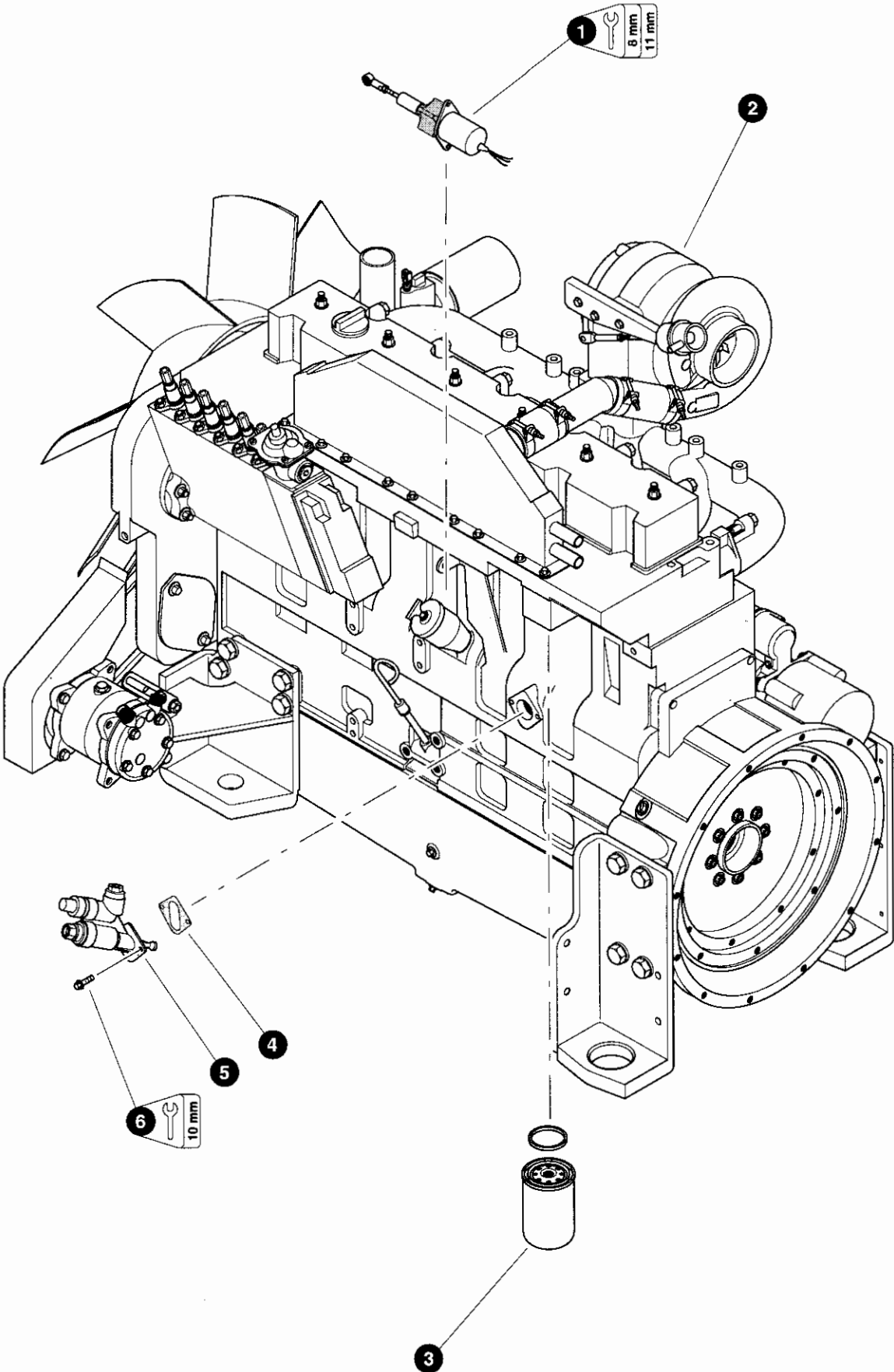
- ✓ See referenced page for component or assembly breakdown.
 □ Kit or Assembly - includes all items indented underneath.

Note #1:

Use Loctite 271 (red) during installation.

Note #2:

Use Loctite 272 (blue) during installation.

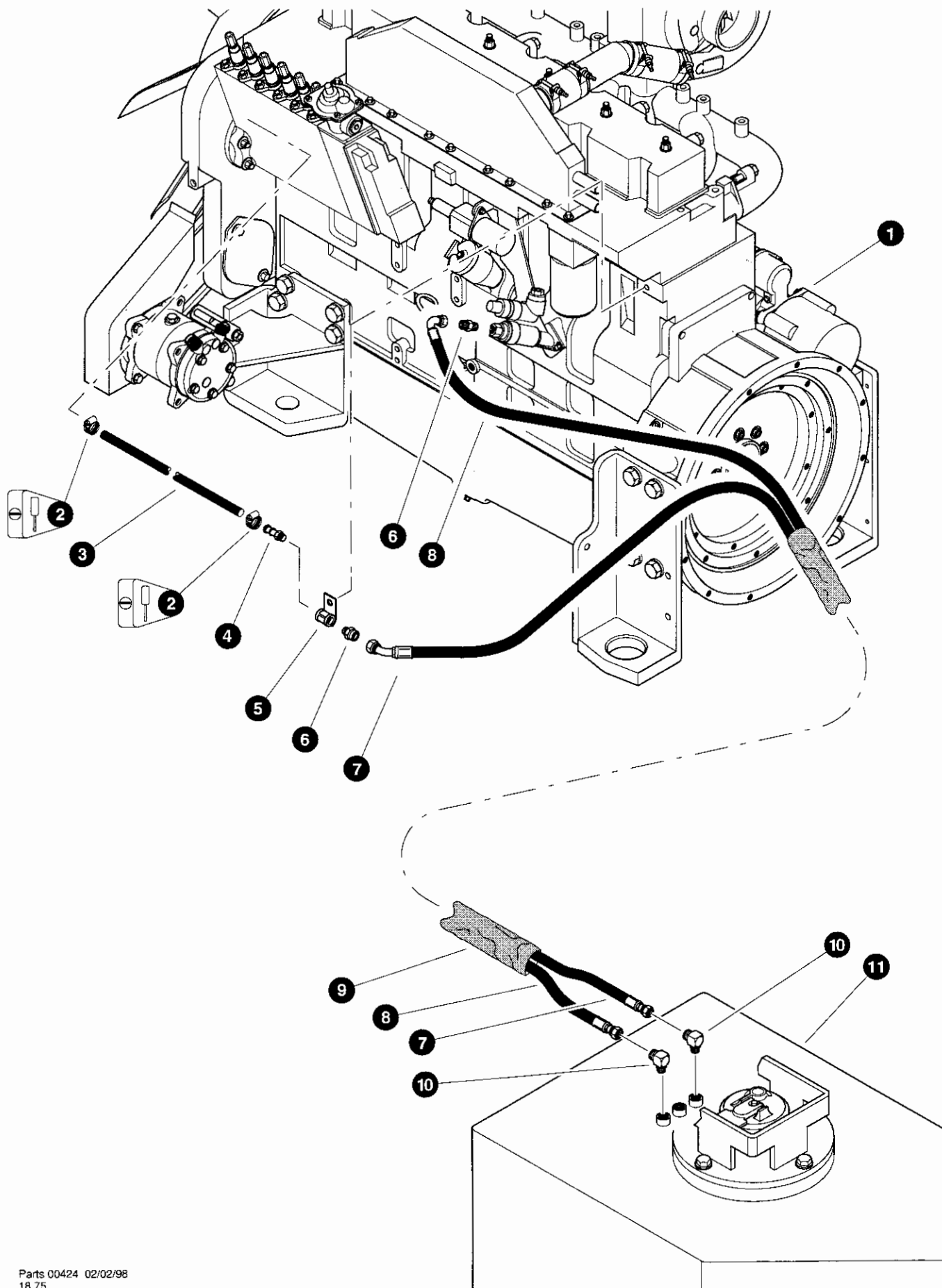


Parts 00423 02/02/98
18.75

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

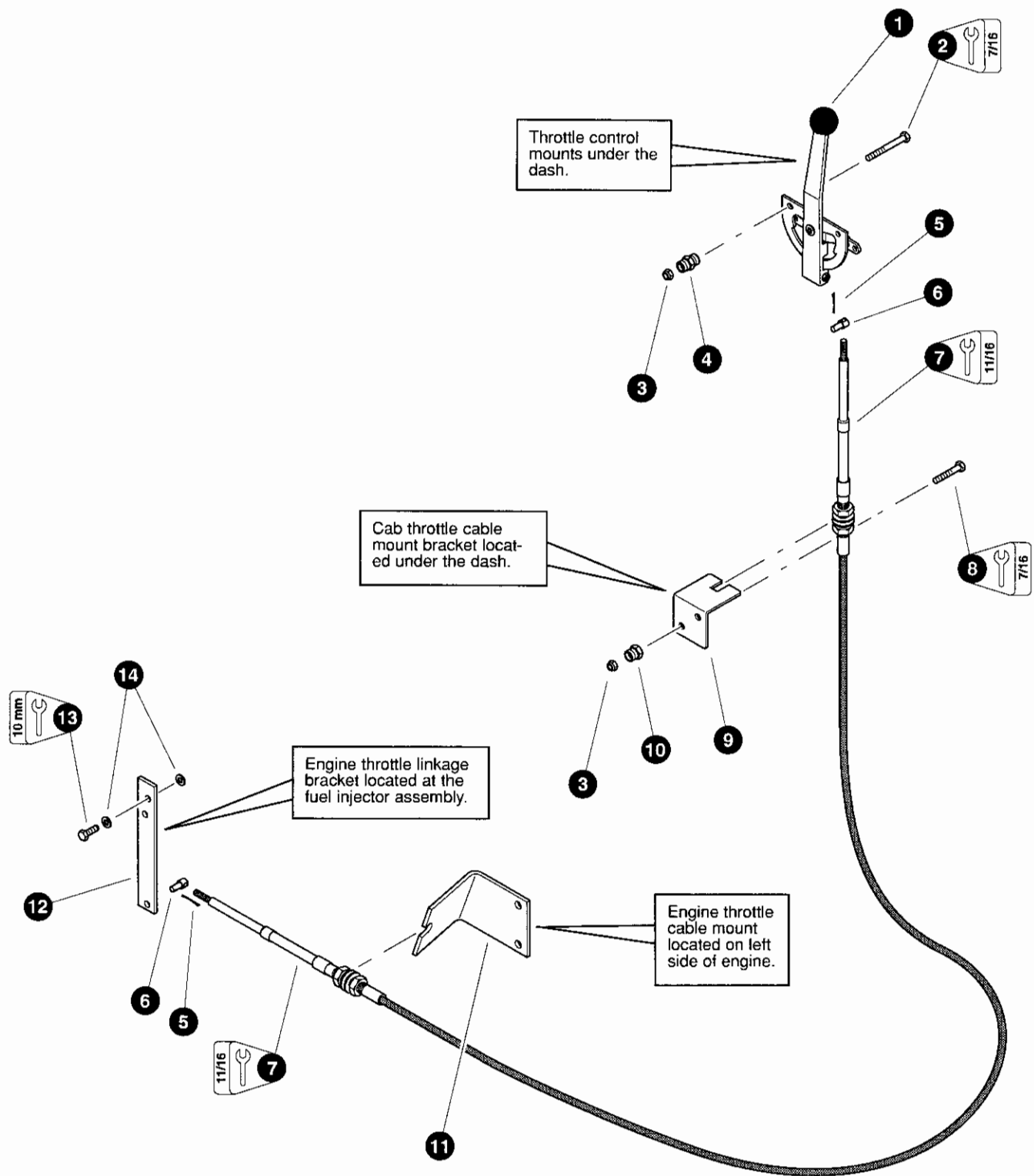
FUEL LINES

(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

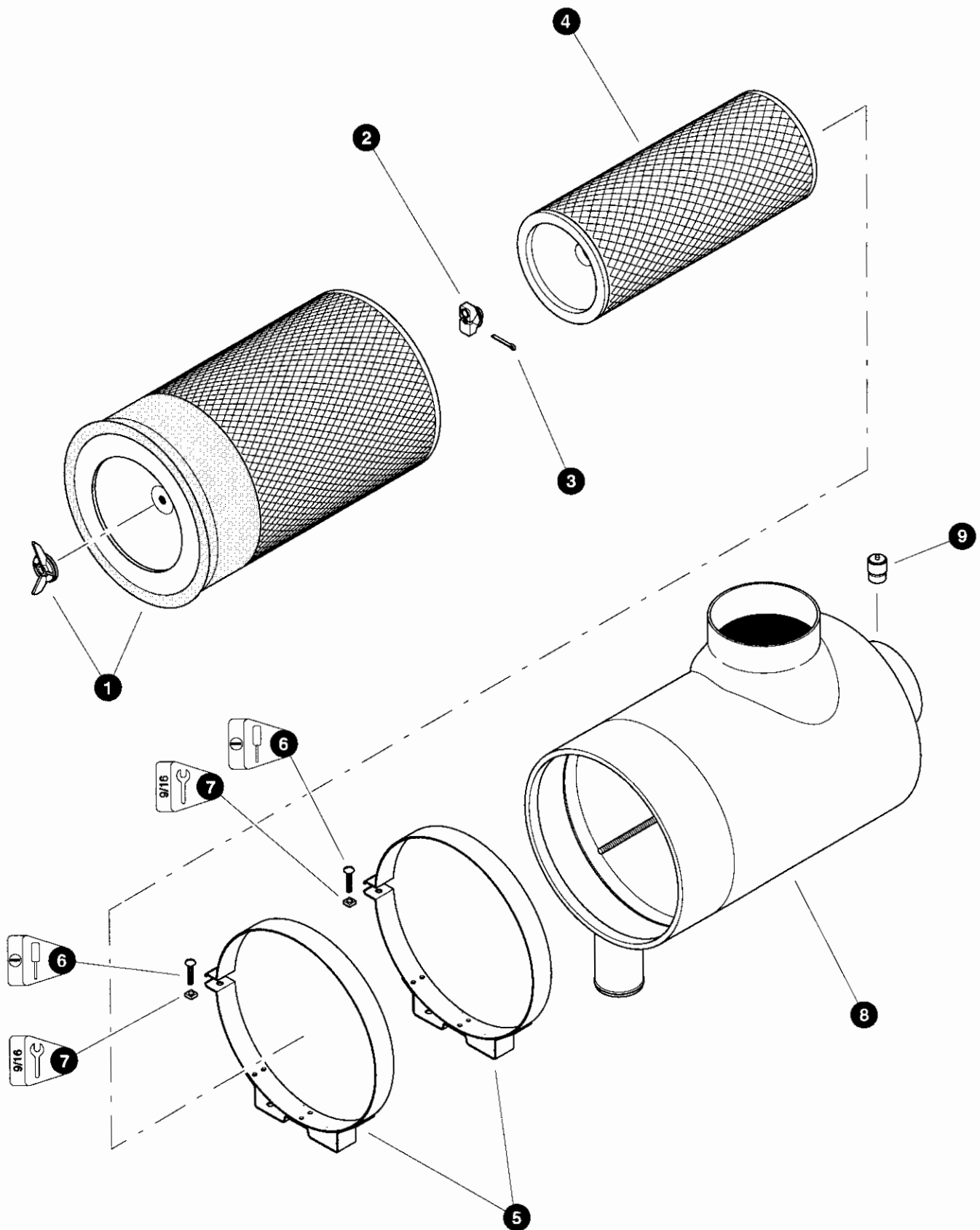
✓ See referenced page for component or assembly breakdown.

✂ 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"	

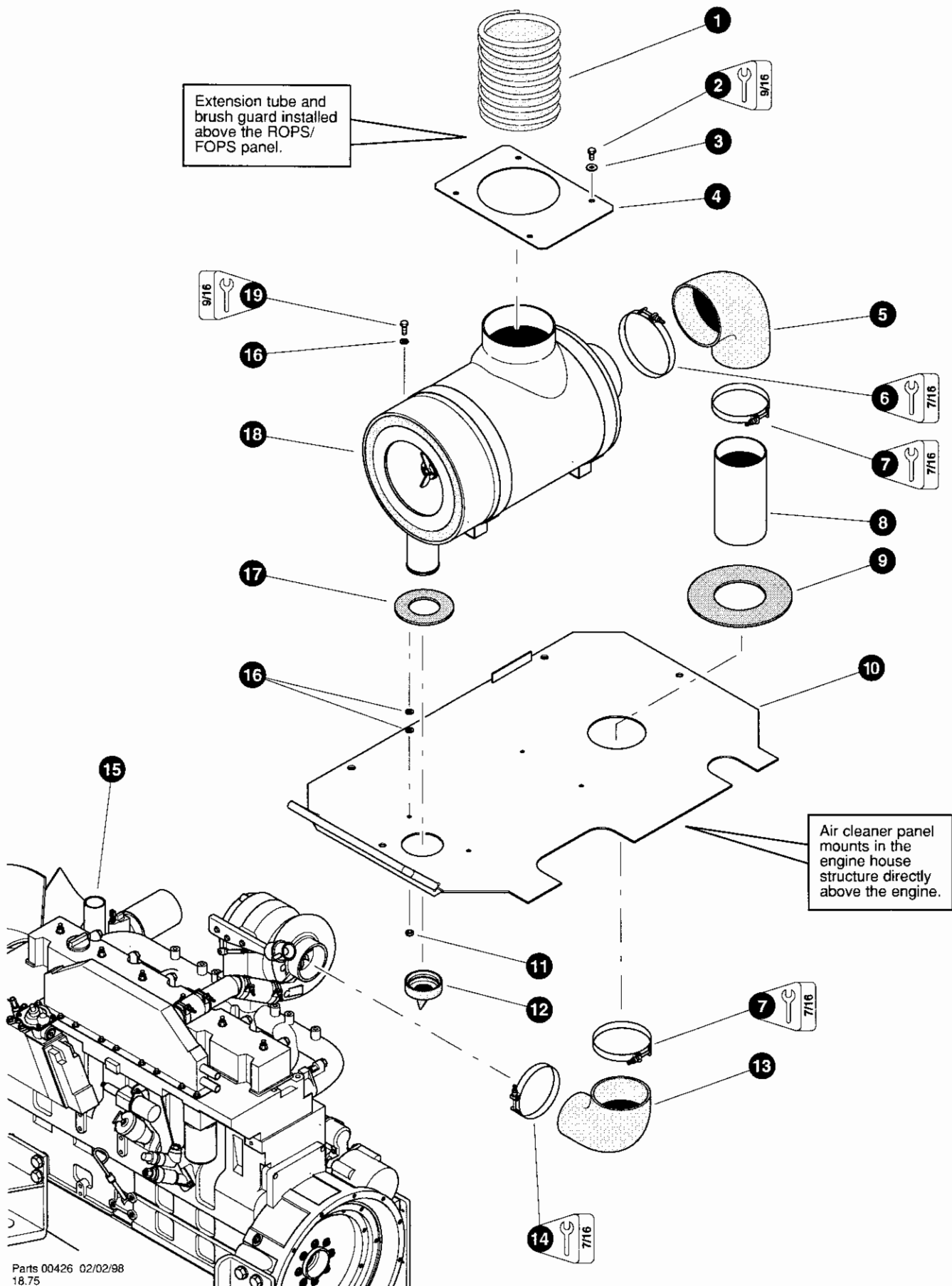


Parts 00425 08/11/99
18.75

AIR CLEANER ASSEMBLY

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

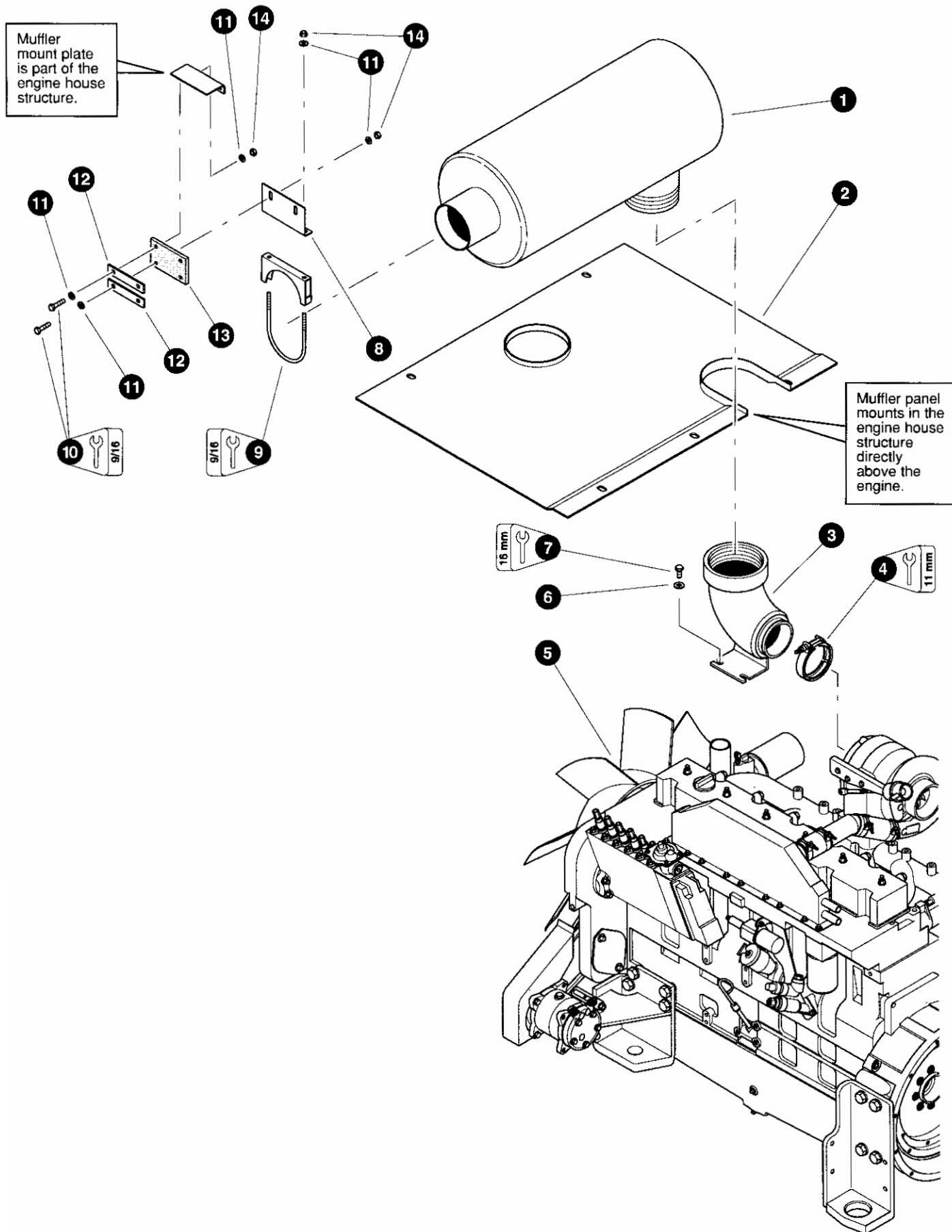
- ☐ Kit or Assembly - includes all items indented underneath.



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.

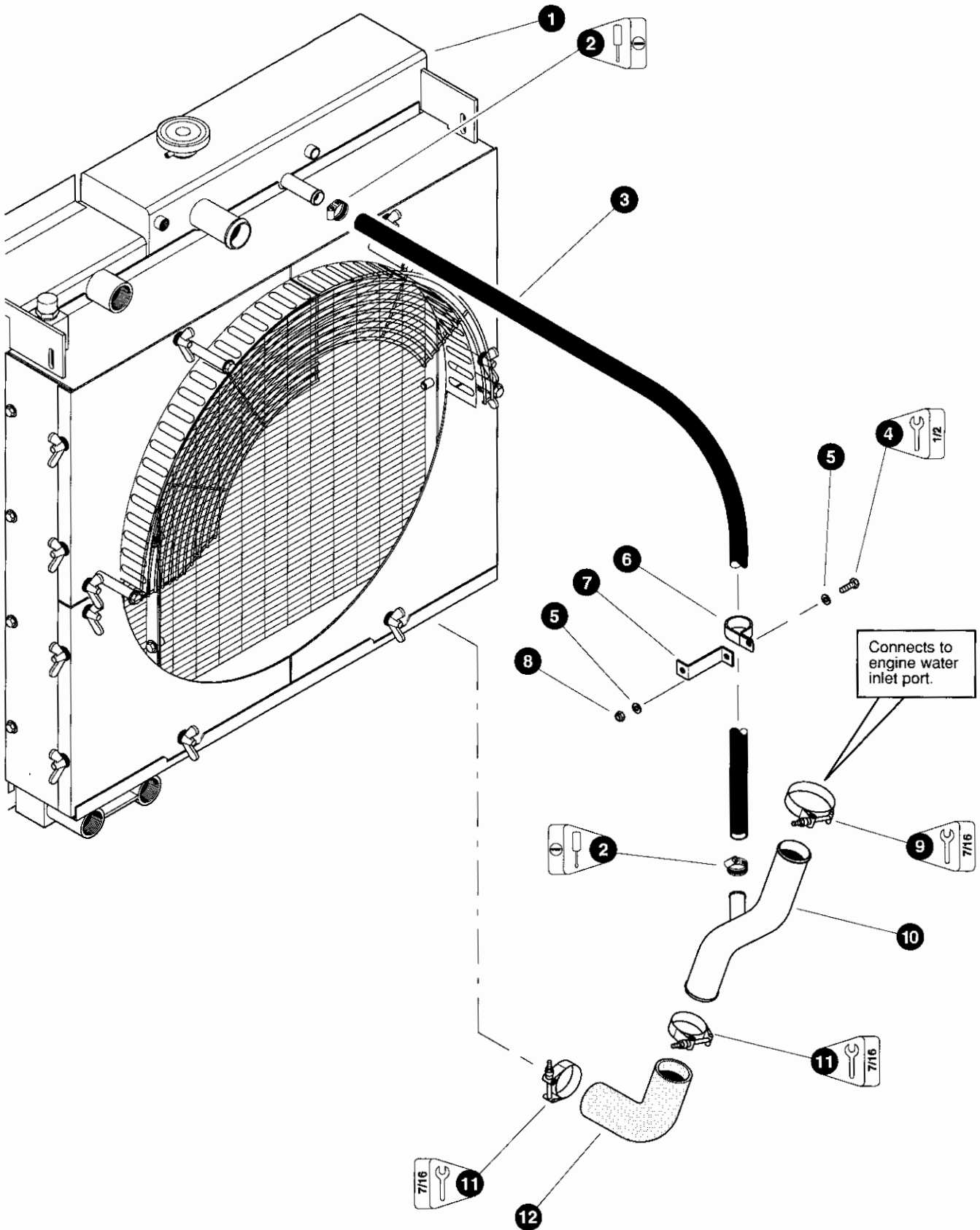


Parts 00428 02/02/98
12.50

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	18827	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 02/03/96
18.75

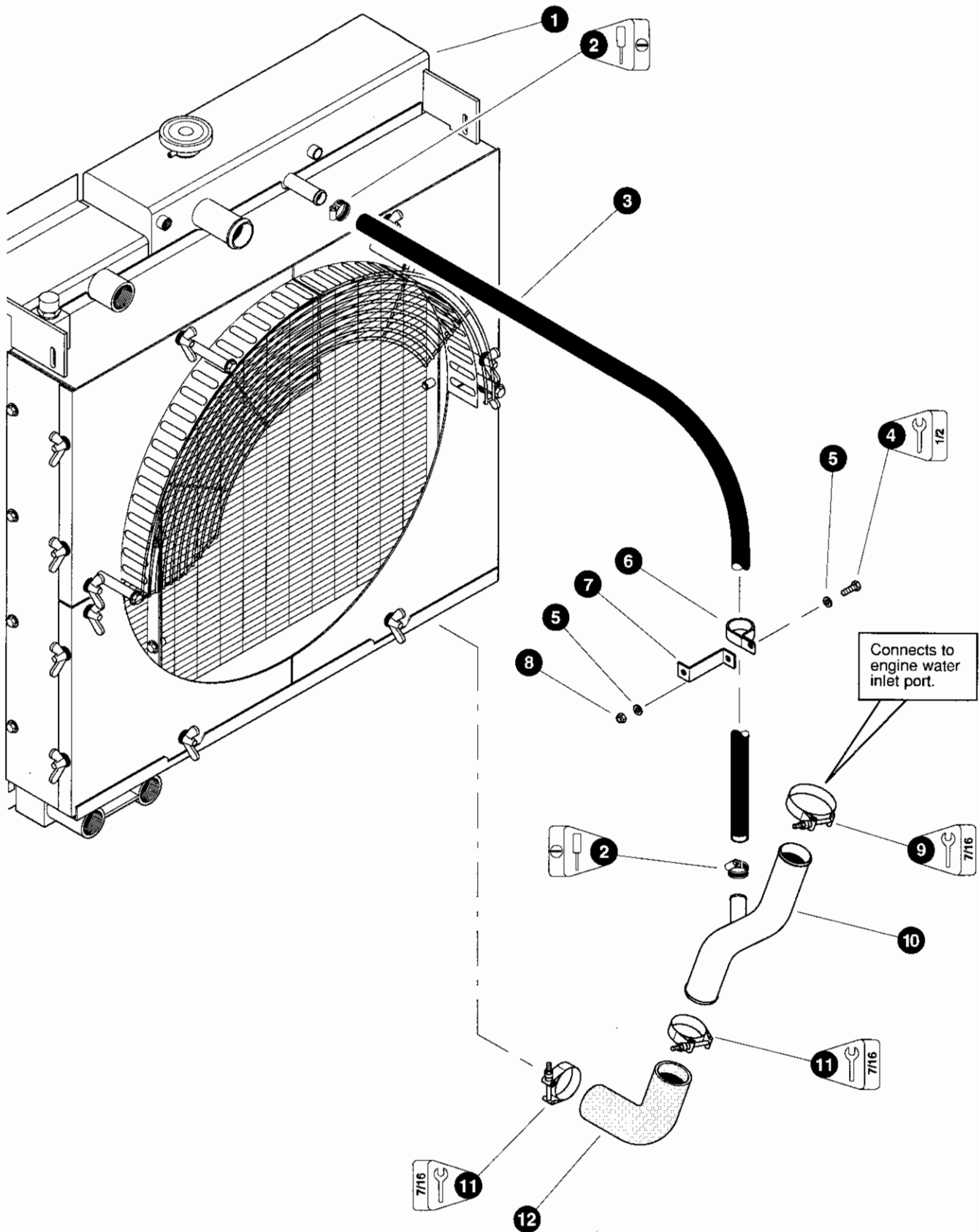
COOLING SYSTEM LINES

(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

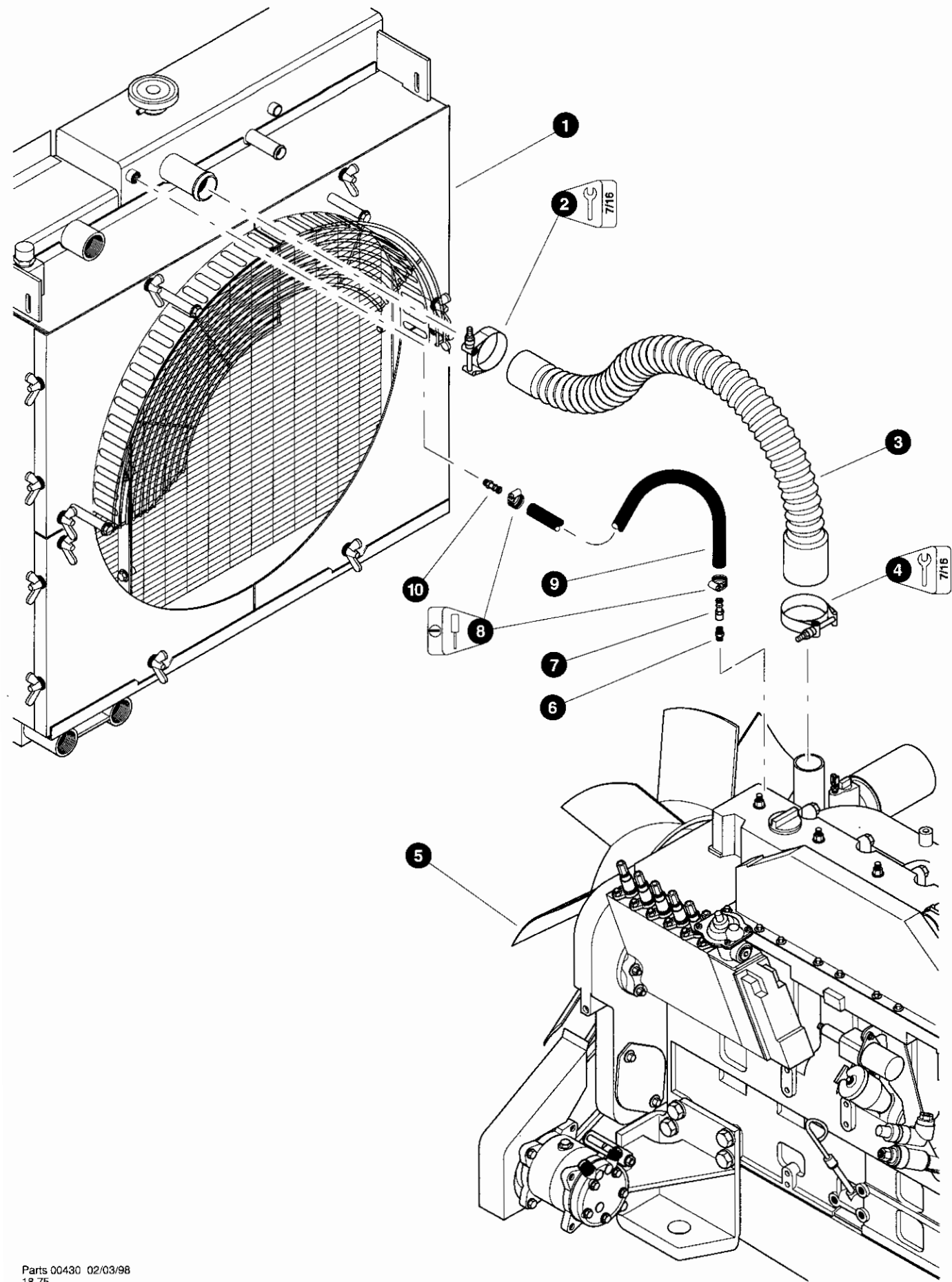
COOLING SYSTEM LINES

(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)

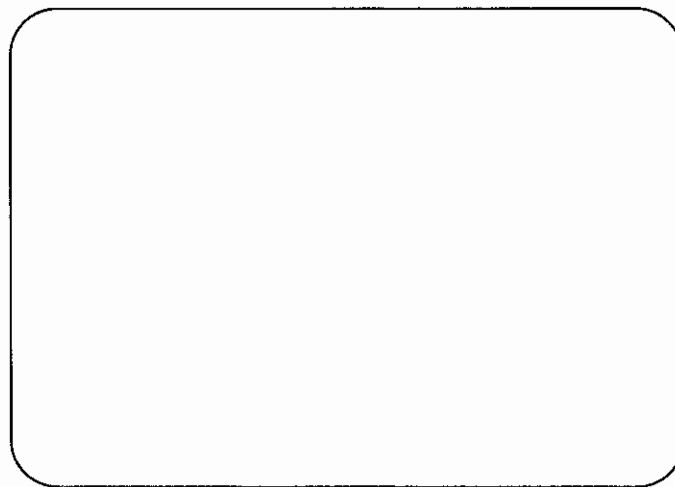
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
2	18651	1		CLAMP, constant torque - #32	
3	16433	1		HOSE, flex radiator - 2" x 2-1/4" x 25"	
4	18104	1		CLAMP, constant torque - #36	
5	REF.	1	✓	ENGINE - Cummins C8.3-C	F.3.2
6	16977	1		CONNECTOR, straight - coolant orifice	
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.

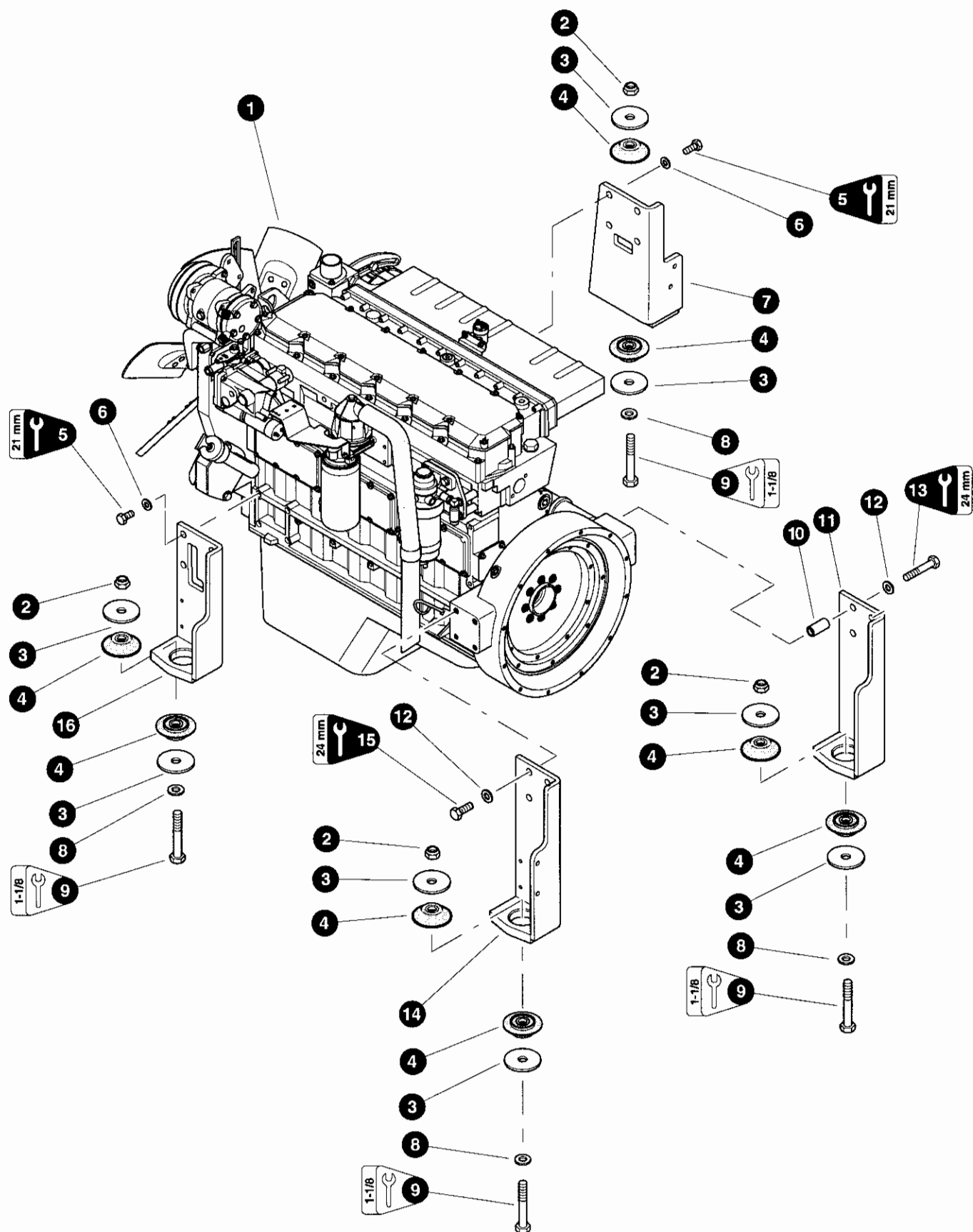
✂ Bulk material - order length required in feet or meters.

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Engine Installation - Caterpillar 3126T (Optional)

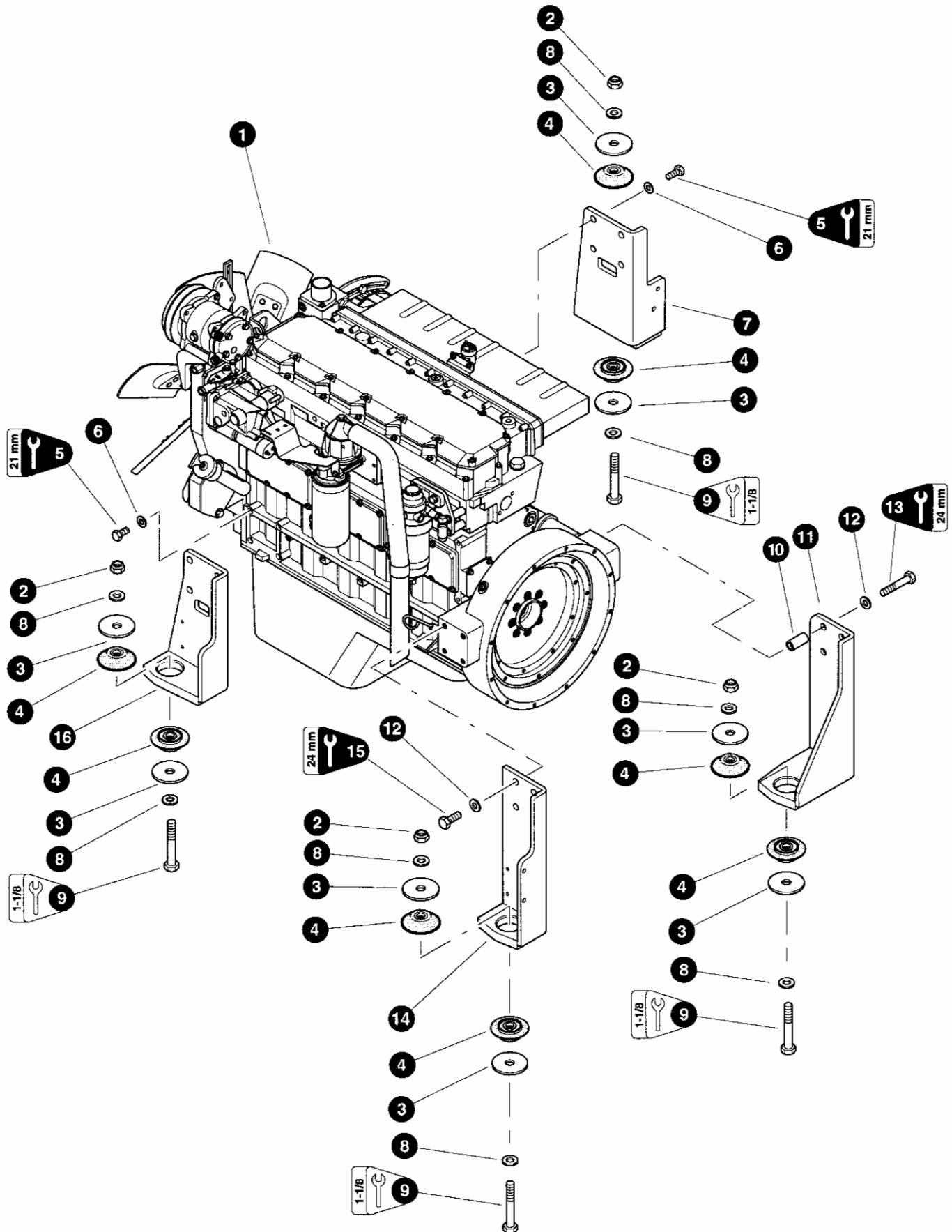


Parts 00475 02/25/98
12.50

ENGINE INSTALLATION

(Used on machines PDN# 053FWD and below)

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 <i>(Torque to 120 ft.lbs. (160 Nm))</i>	
6	18418	8	WASHER, flat - 14mm	
7	18225	1	MOUNT, engine - RH front	
8	10771	4	WASHER, SAE flat - 3/4"	
9	10844	4	BOLT - 3/4" x 5"	
10	20624	4	SPACER, rear engine mount	
11	18926	1	MOUNT, engine - RH rear	
12	18777	8	WASHER, flat - 16mm	
13	20623	4	BOLT - 16mm-2.0P x 90mm <i>(Torque to 175 ft.lbs. (233 Nm))</i>	
14	18925	1	MOUNT, engine - LH rear	
15	18928	4	BOLT - 16mm-2.0P x 45mm <i>(Torque to 175 ft.lbs. (233 Nm))</i>	
16	18224	1	MOUNT, engine - LH front	

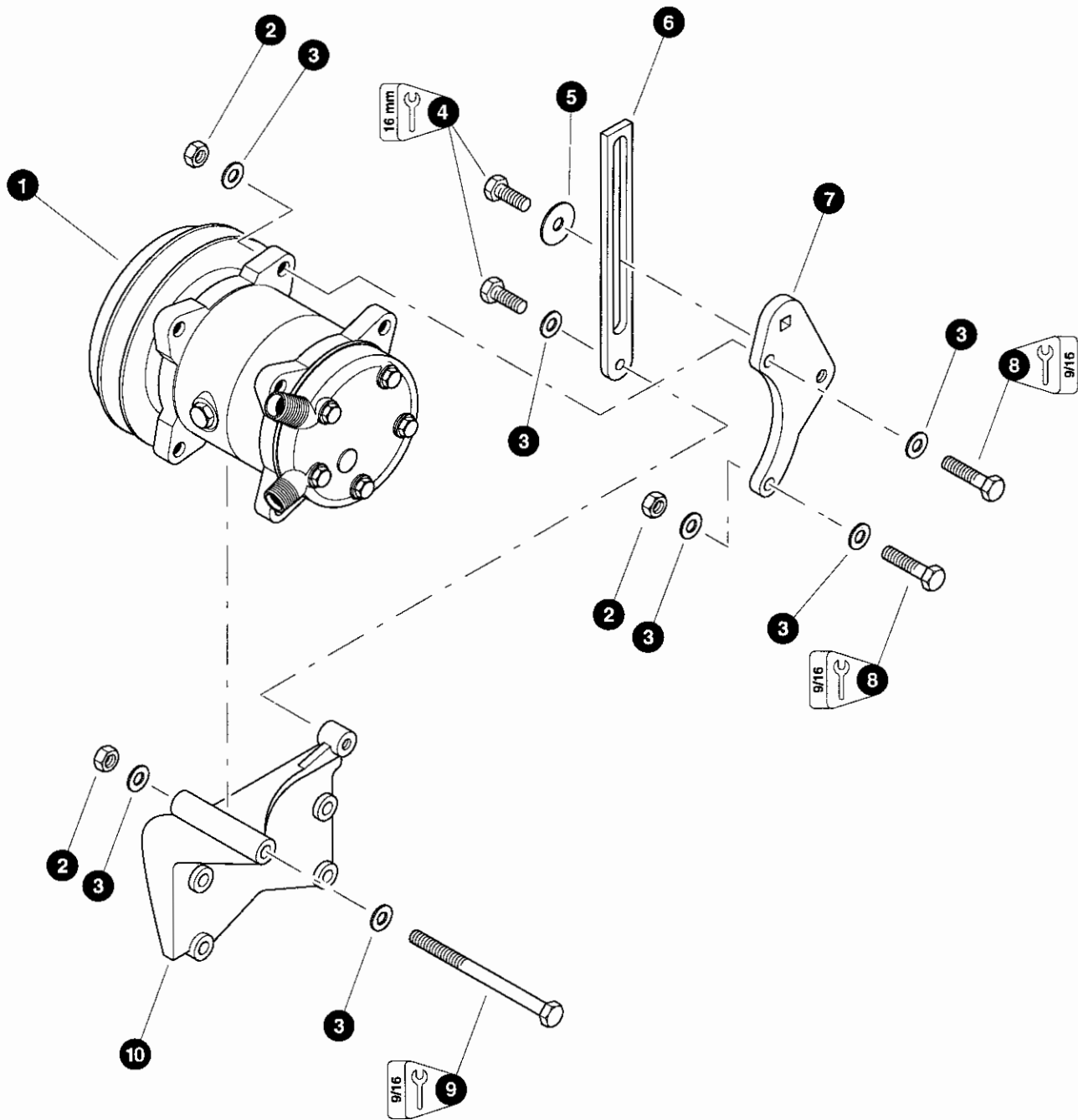


Parts 00974 12/09/98
12.50

ENGINE INSTALLATION

(Used on machines PDN# 054FWD and above)

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 <i>(Torque to 120 ft.lbs. (160 Nm))</i>	
6	18418	8	WASHER, flat - 14mm	
7	18225	1	MOUNT, engine - RH front	
8	10771	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 <i>(Torque to 175 ft.lbs. (233 Nm))</i>	
14	18925	1	MOUNT, engine - LH rear	
15	18928	4	BOLT - 16mm-2.0P x 45mm <i>(Torque to 175 ft.lbs. (233 Nm))</i>	
16	21221	1	MOUNT, engine - LH front	



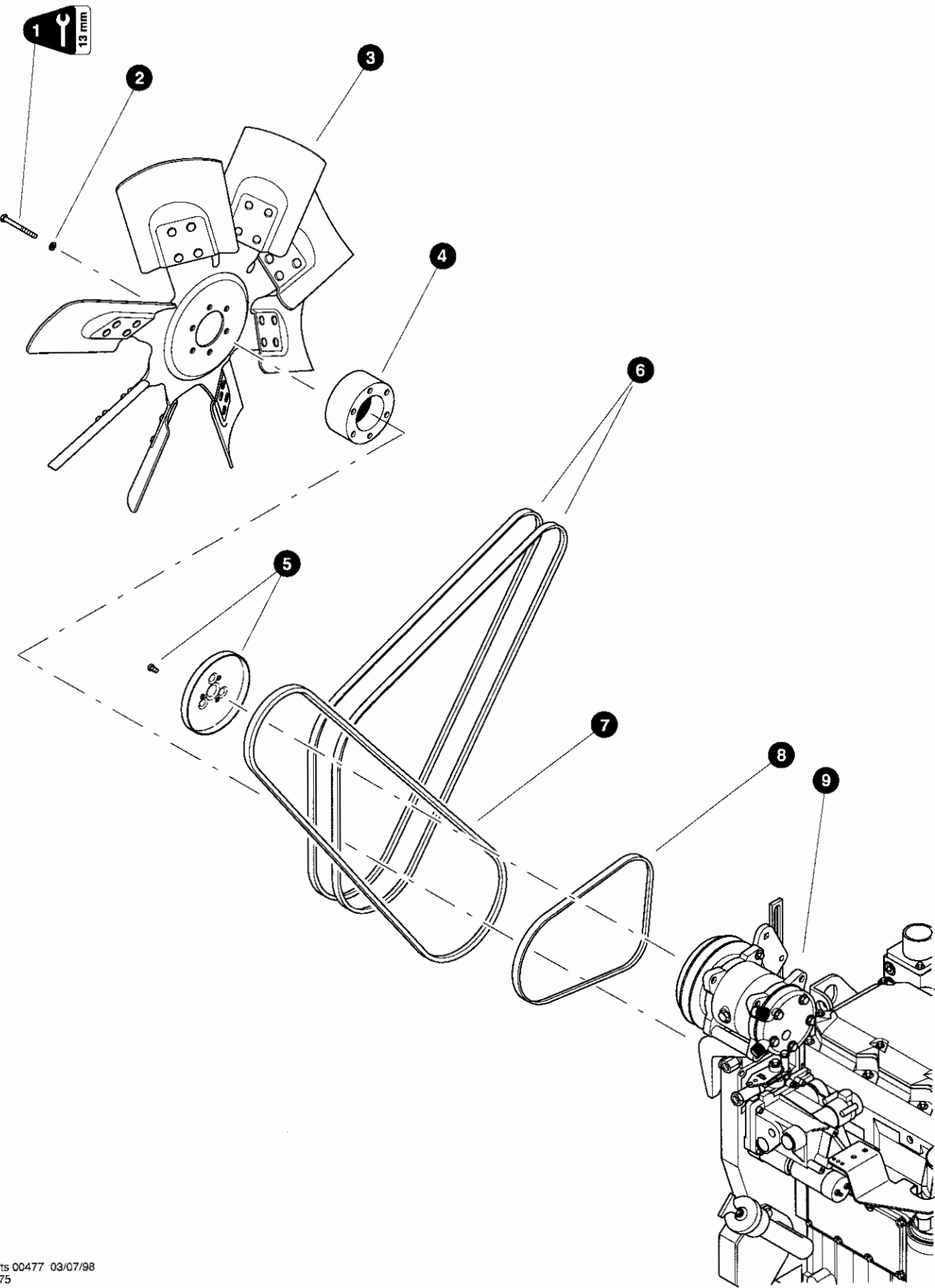
Parts 00476 02/25/98
37.50

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

(Used on machines built before May 1, 1998 - approximate)

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	19089	1	FAN, engine - sucker - 26" high pitch (See verification information below before ordering parts)	
	18785	1	FAN, engine - blower - 26" (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:

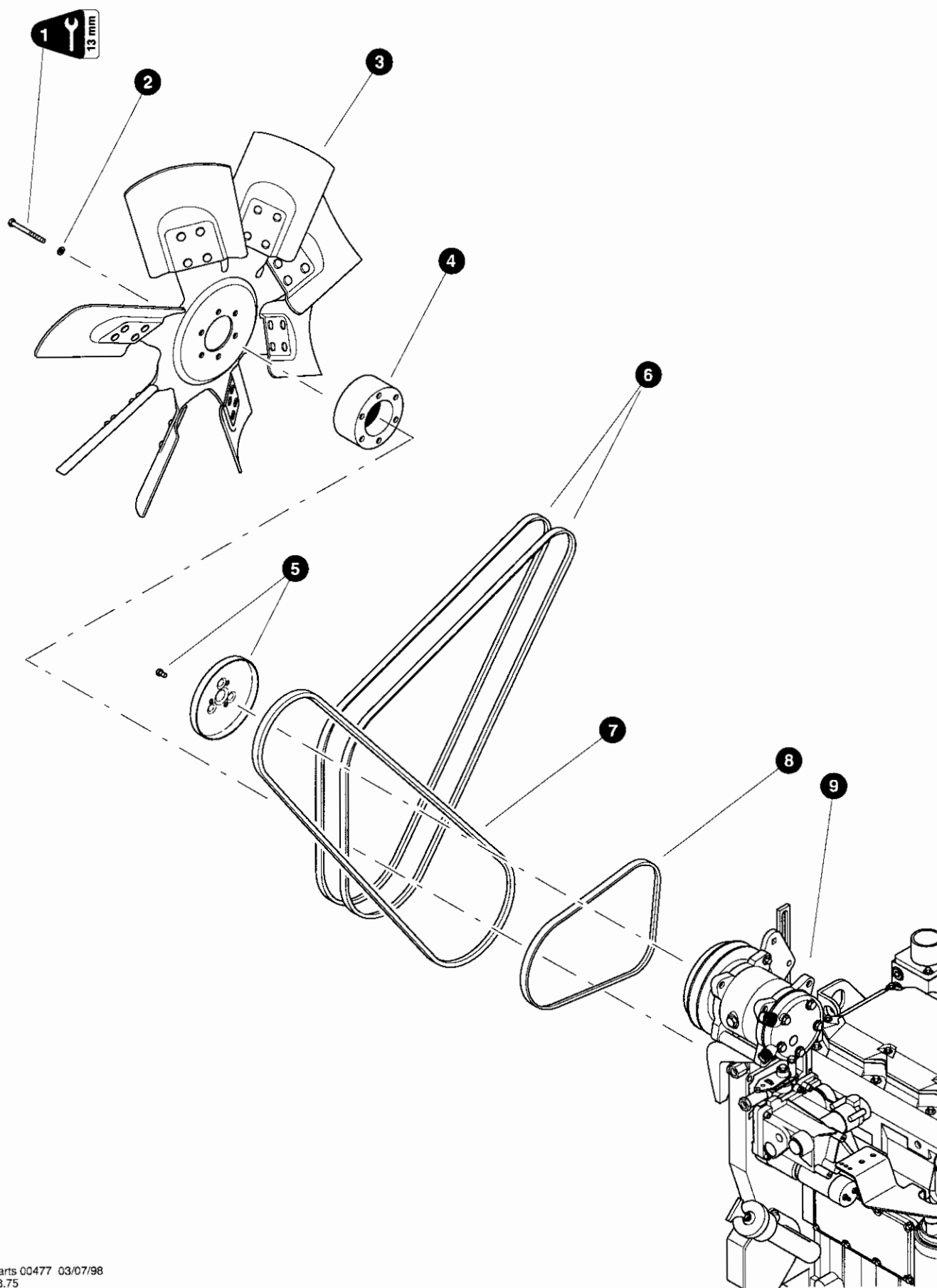
Use Loctite 272 (blue) during installation.

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.



Parts 00477 03/07/98
18.75

ENGINE FAN & BELTS

(Used on machines built after May 1, 1998 - approximate)

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:

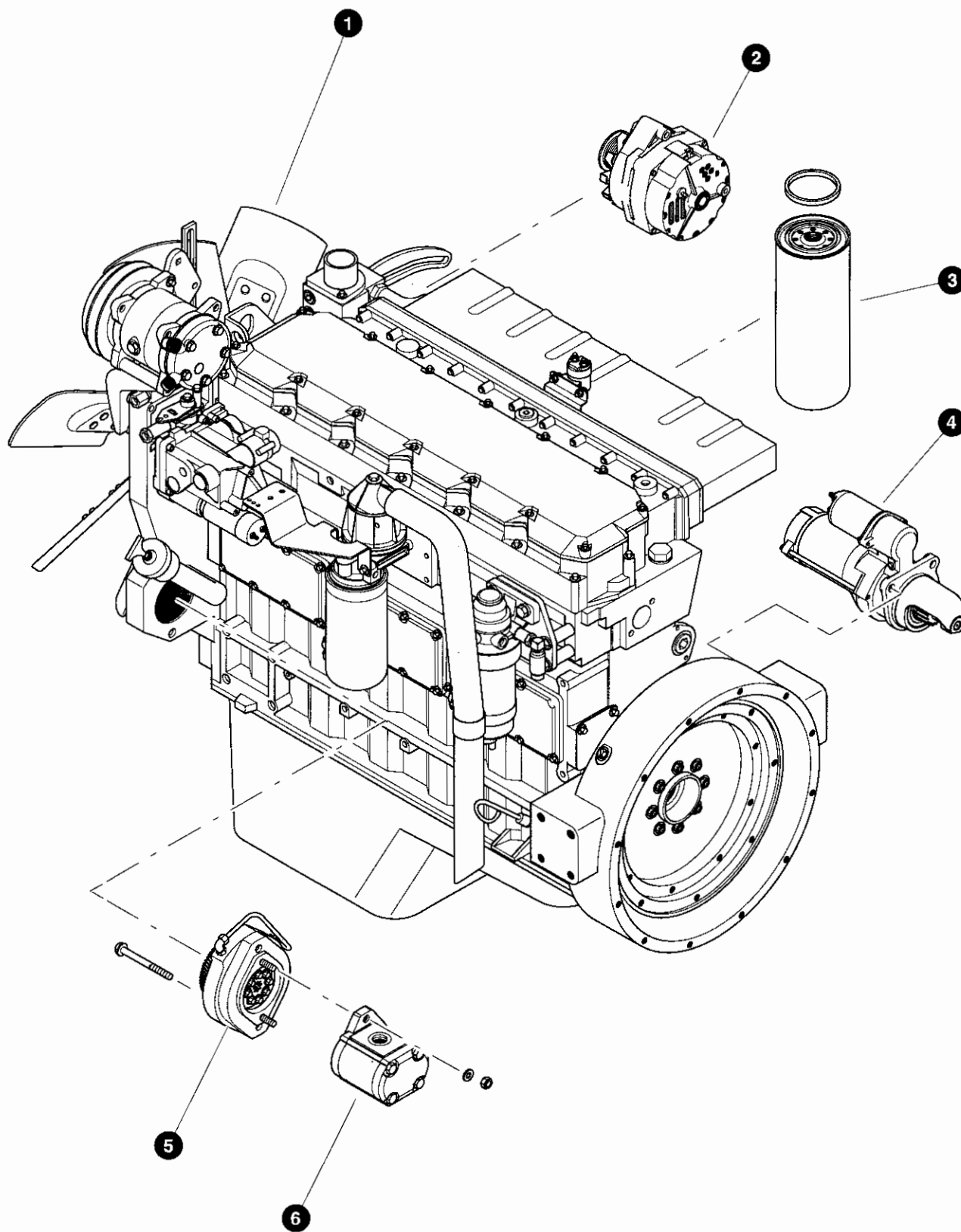
Use Loctite 272 (blue) during installation.

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.



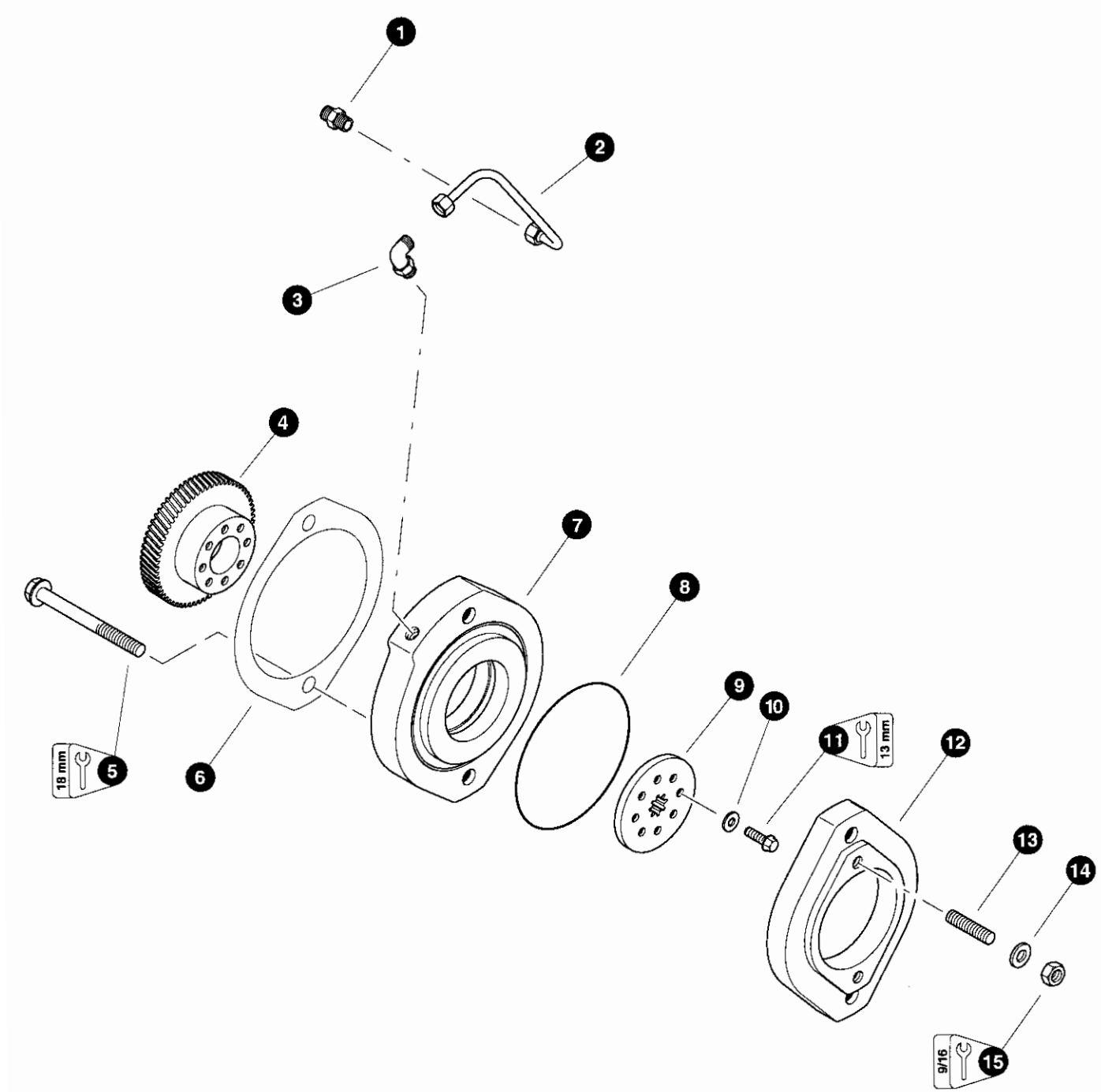
Parts 01036 02/01/99
18.75

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.

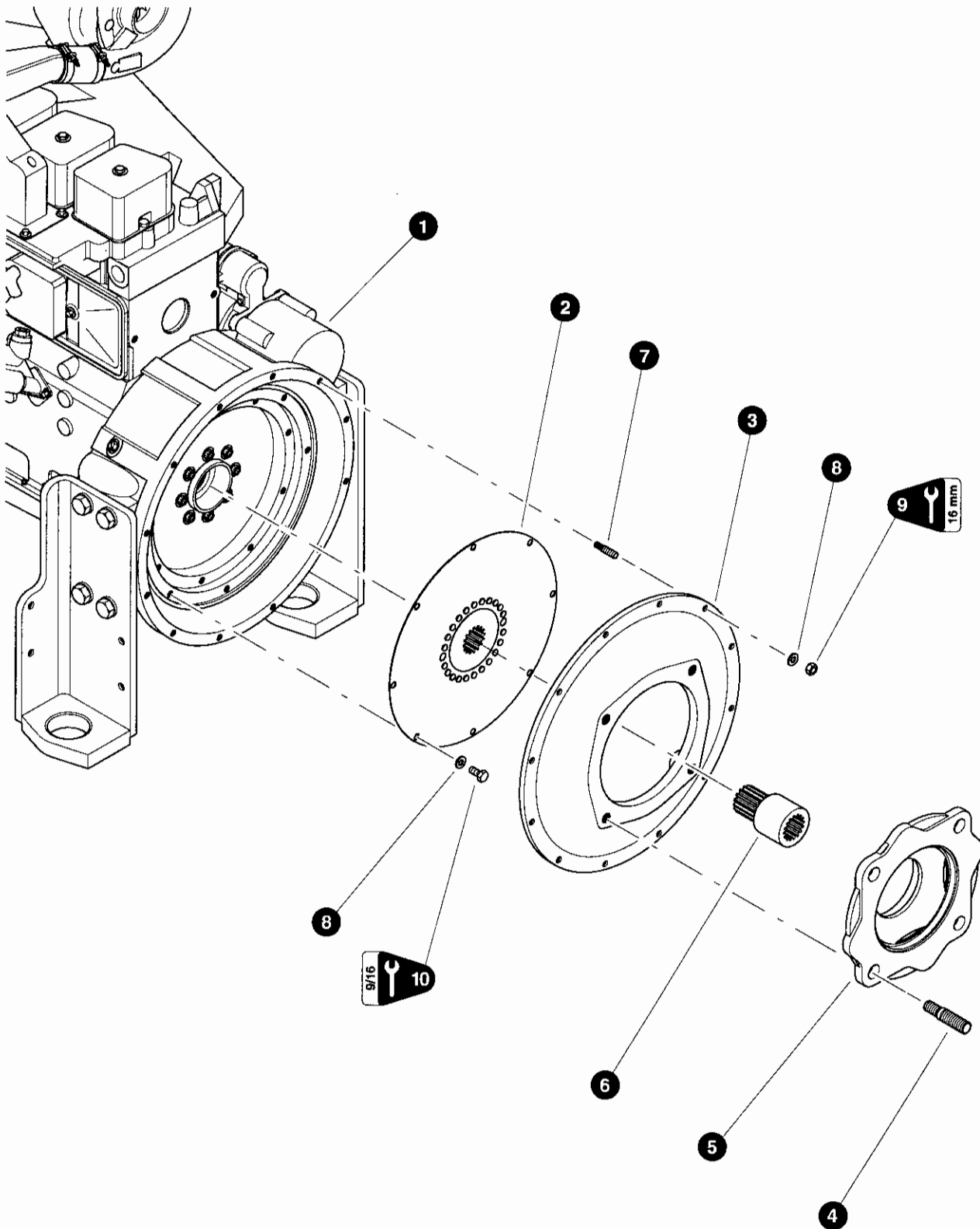
Ⓢ Contact your TIMBCO dealer for additional information.



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 00406 01/28/98
18.75

SINGLE PUMP TRANSMISSION INSTALLATION

(Used on machines PDN# 070FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	ENGINE - Caterpillar	F.4.2
-	18291	1	☐	TRANSMISSION, single pump drive	
2	16258	1		DRIVE PLATE	
3	NSS	1		HOUSING	
4	18293	4		STUD, pump mounting	
5	18292	1		ADAPTER, pump drive - SAE "D"	
6	18840	1		SHAFT, drive	
7	18385	12		STUD, threaded - 3/8" - 1-3/4" (See note #1 below)	
8	15528	20		WASHER, SAE flat - 3/8"	
9	10700	12		NUT, hex - 3/8" (See note #2 below)	
				(Torque to 40 ft.lbs. (53 Nm))	
10	15542	8		BOLT - 3/8" x 3/4" (See note #1 below)	
				(Torque to 40 ft.lbs. (53 Nm))	

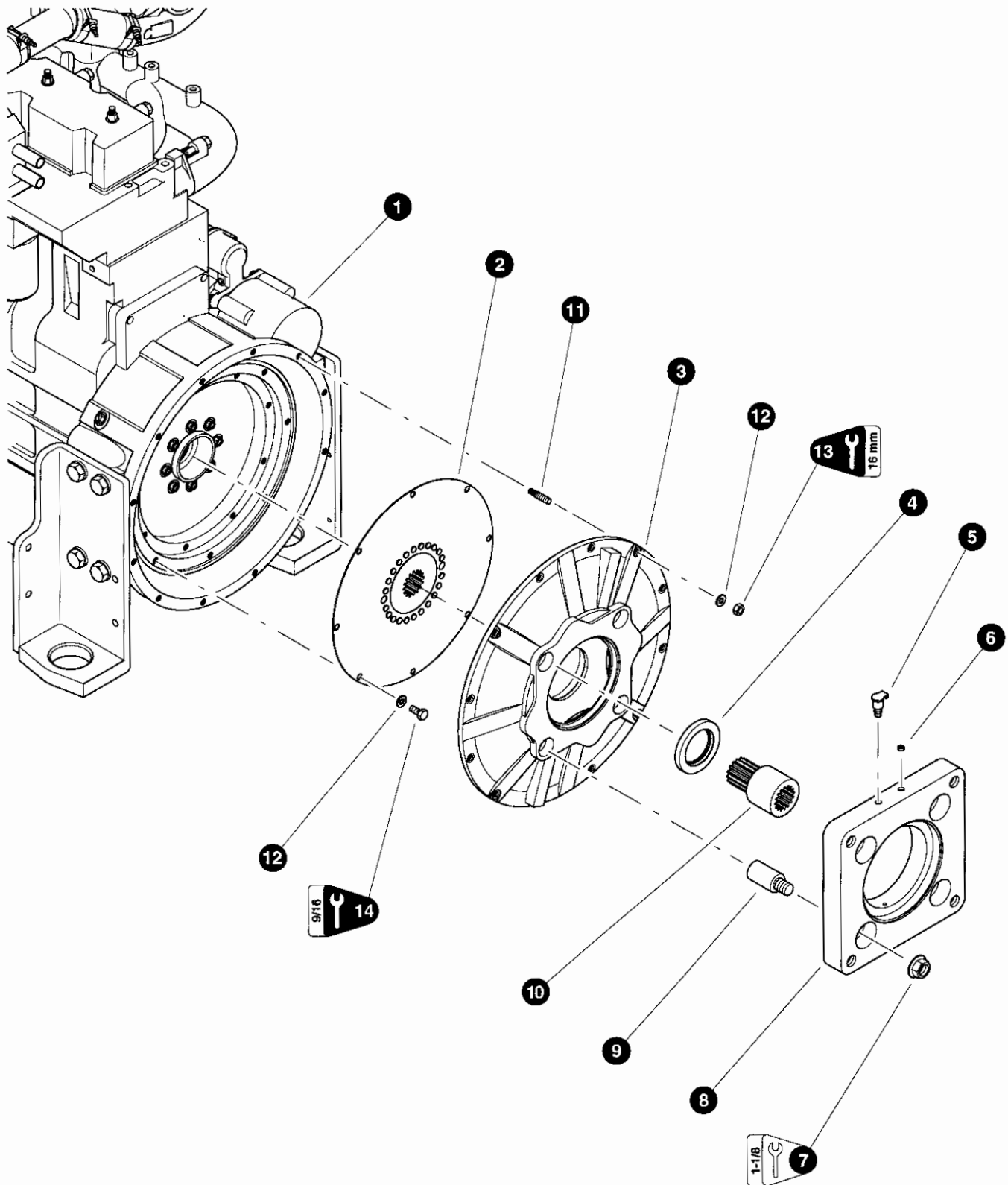
- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.

Note #1:

Use Loctite 271 (red) during installation.

Note #2:

Use Loctite 272 (blue) during installation.



Parts 01132 03/25/99
18.75

SINGLE PUMP TRANSMISSION INSTALLATION (Superior)

(Used on machines PDN# 071FWD and above)

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	----	4		BOLT, press fit - 3/4"	
9	21970	1		ADAPTER, pump drive - SAE "E"	
10	----	1		SHAFT, drive	
11	18385	12		STUD, threaded - 3/8" - 1-3/4" (See note #1 below)	
12	15528	20		WASHER, SAE flat - 3/8"	
13	15530	12		NUT, hex - 3/8" (See Note #2 below)	
				(Torque to 40 ft.lbs. (53 Nm))	
14	15542	8		BOLT - 3/8" x 3/4" (See Note #1 below)	
				(Torque to 40 ft.lbs. (53 Nm))	

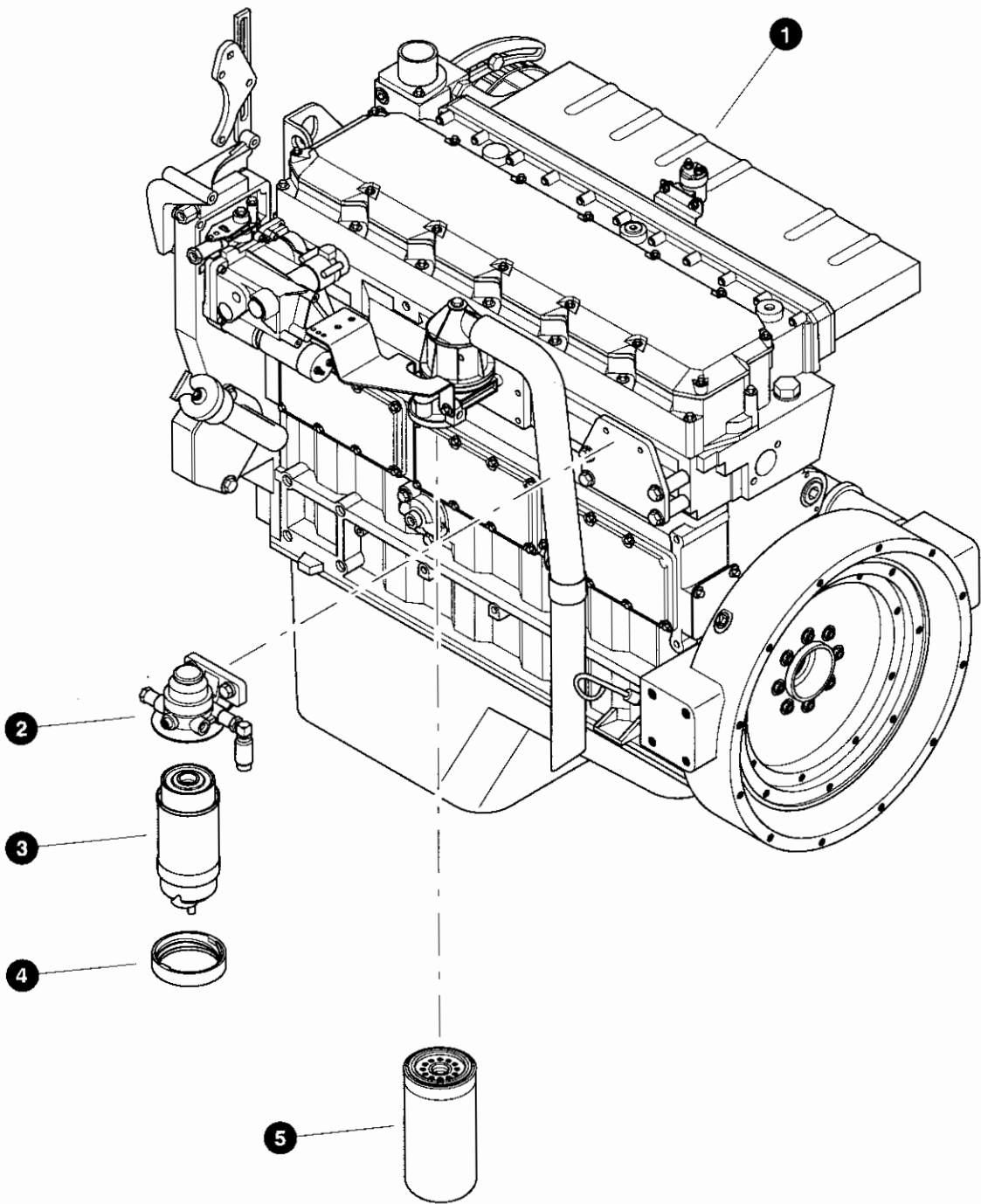
- ✓ See referenced page for component or assembly breakdown.
 □ Kit or Assembly - includes all items indented underneath.

Note #1:

Use Loctite 271 (red) during installation.

Note #2:

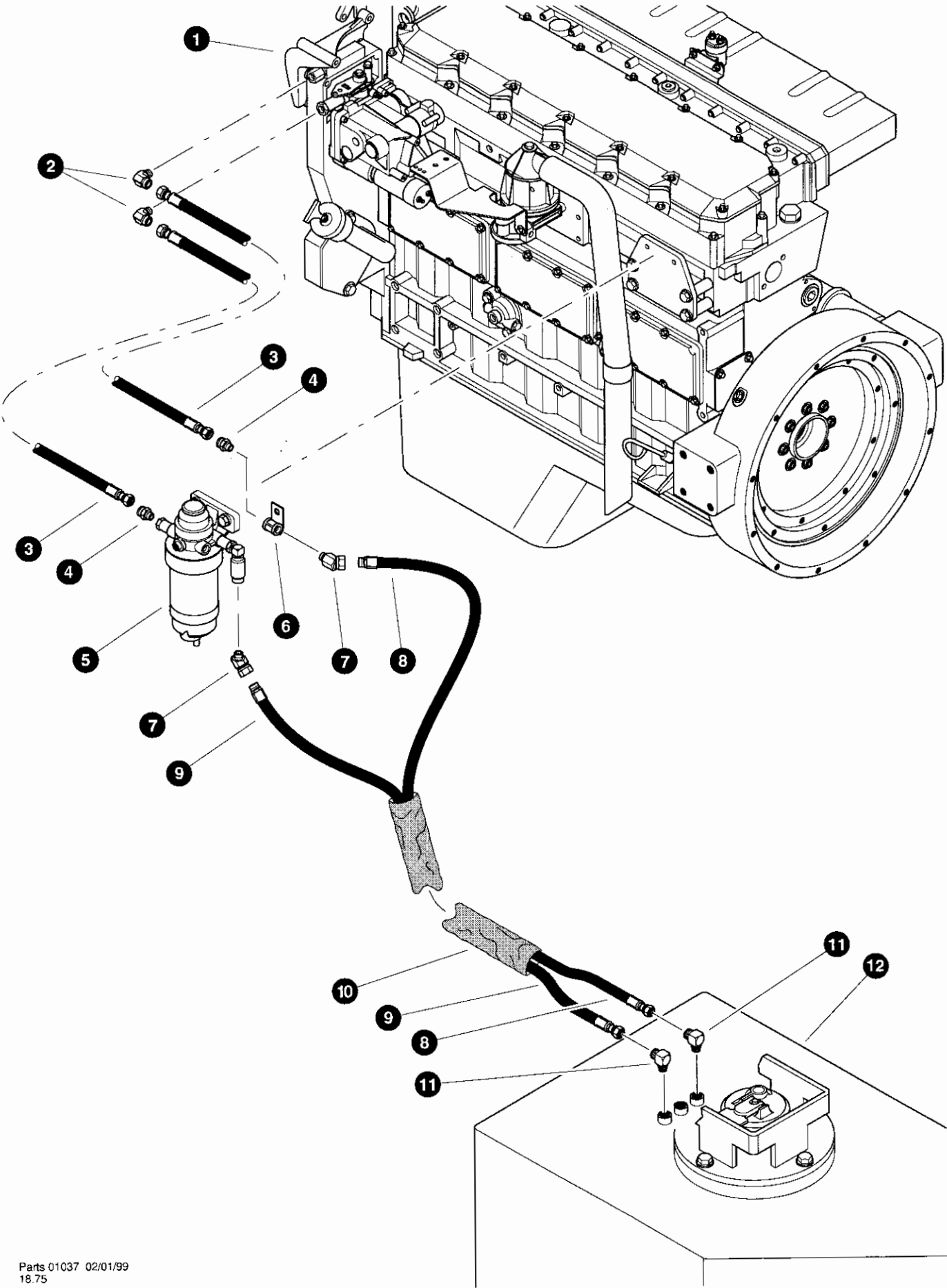
Use Loctite 272 (blue) during installation.



FUEL SYSTEM COMPONENTS ON ENGINE

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

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



Parts 01037 02/01/99
18.75

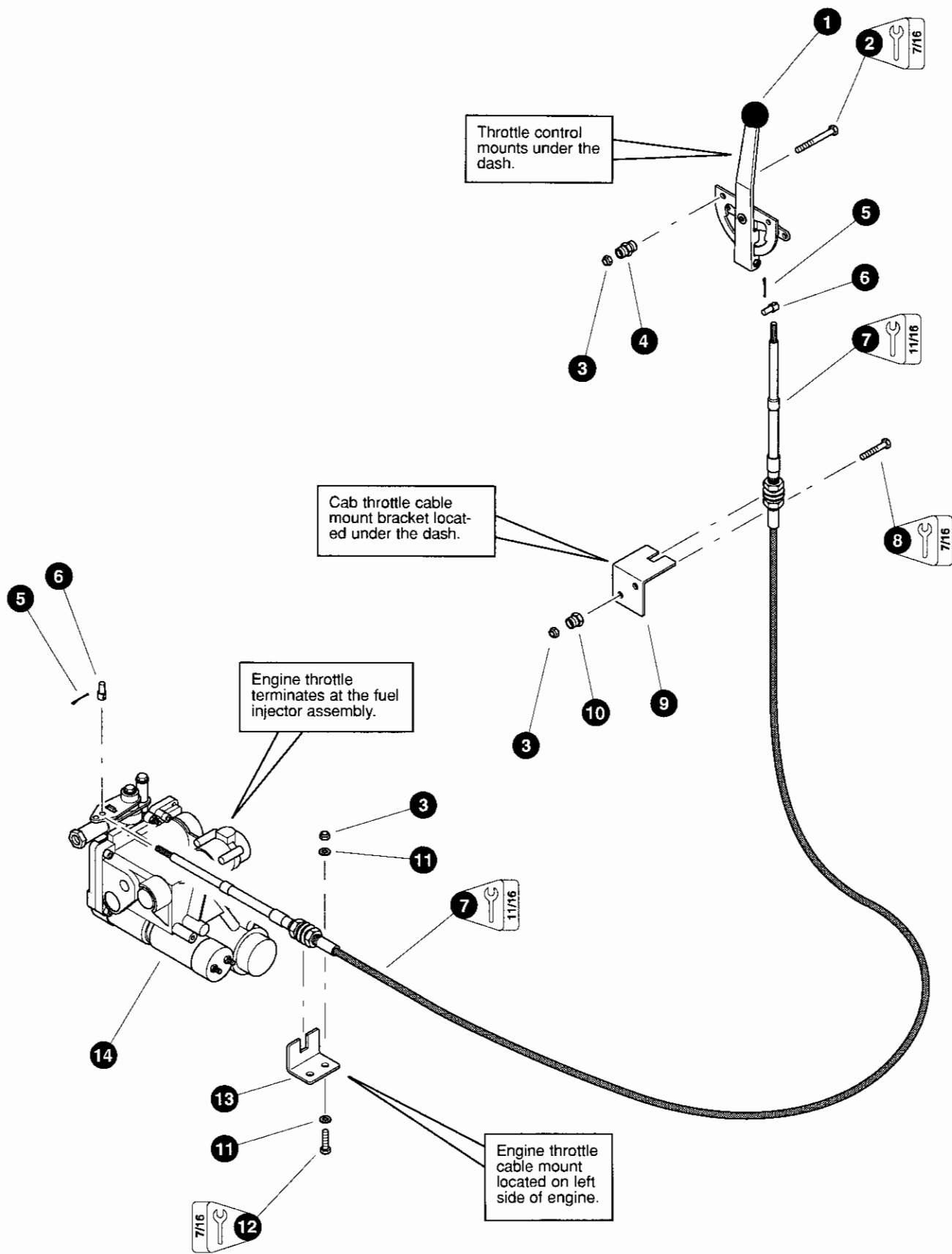
FUEL LINES

(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.

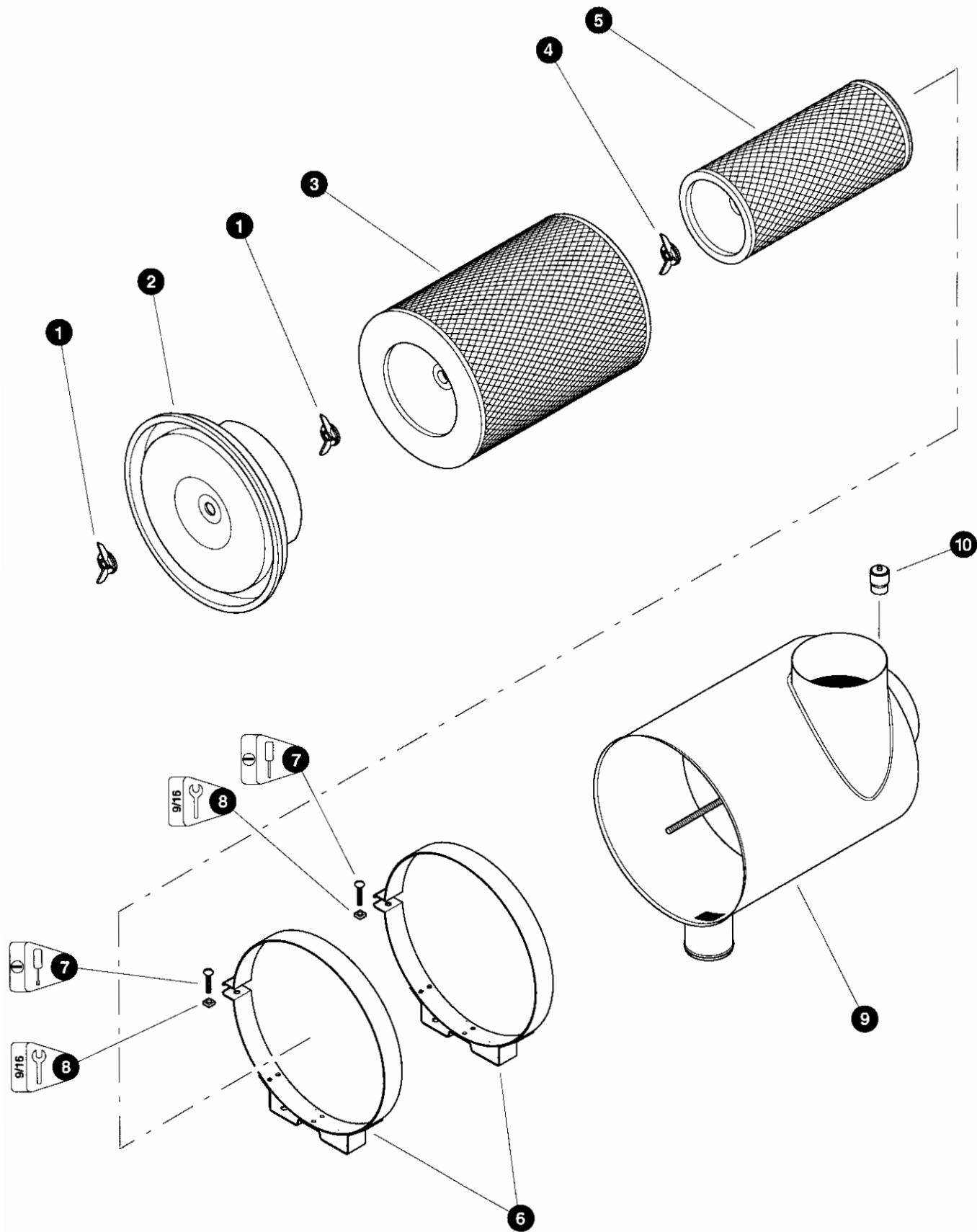
✂ Bulk material - order length required in feet or meters.



Parts 00482 03/07/98
25.00

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	

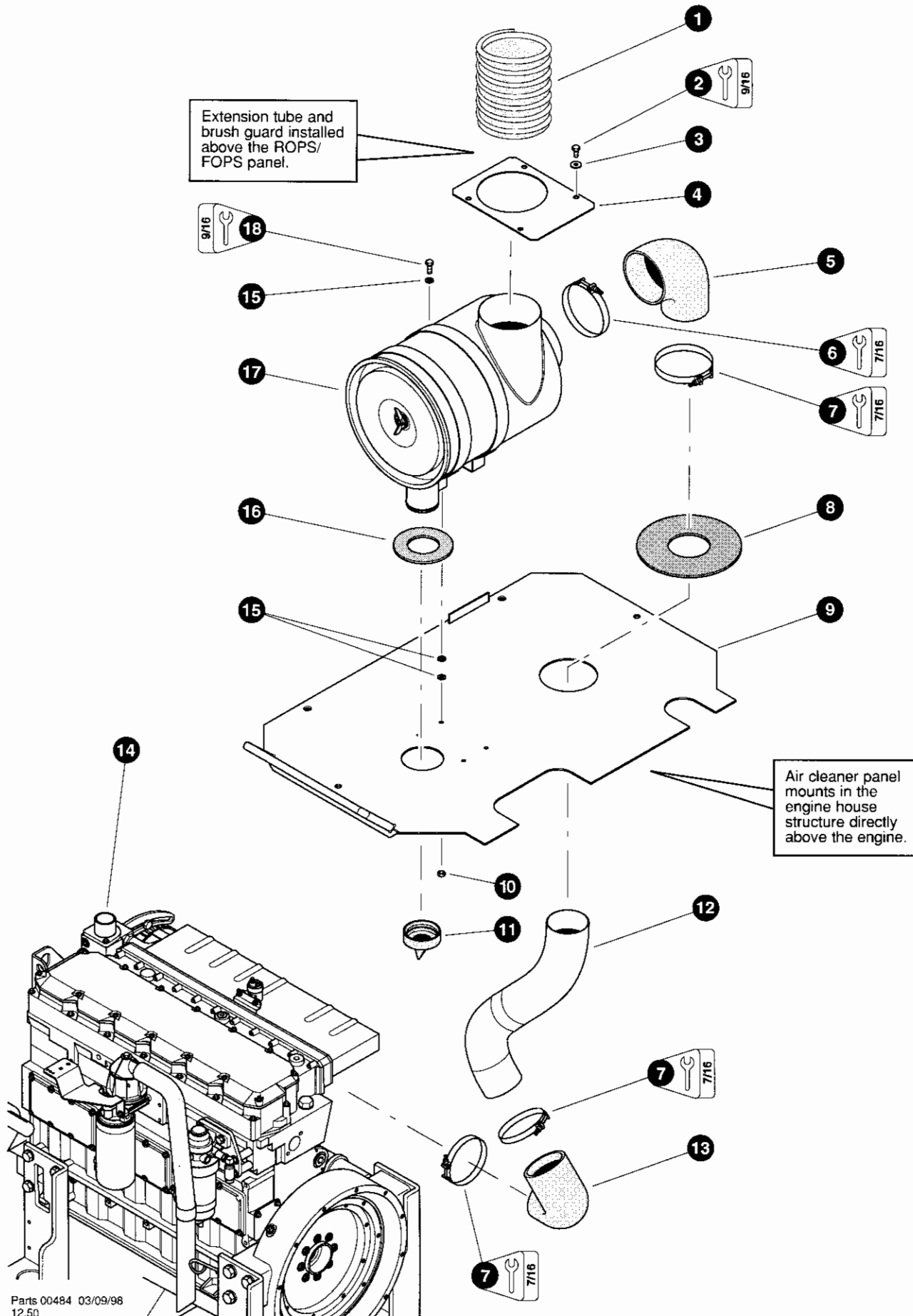


Parts 00118 08/06/96
18.75

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	

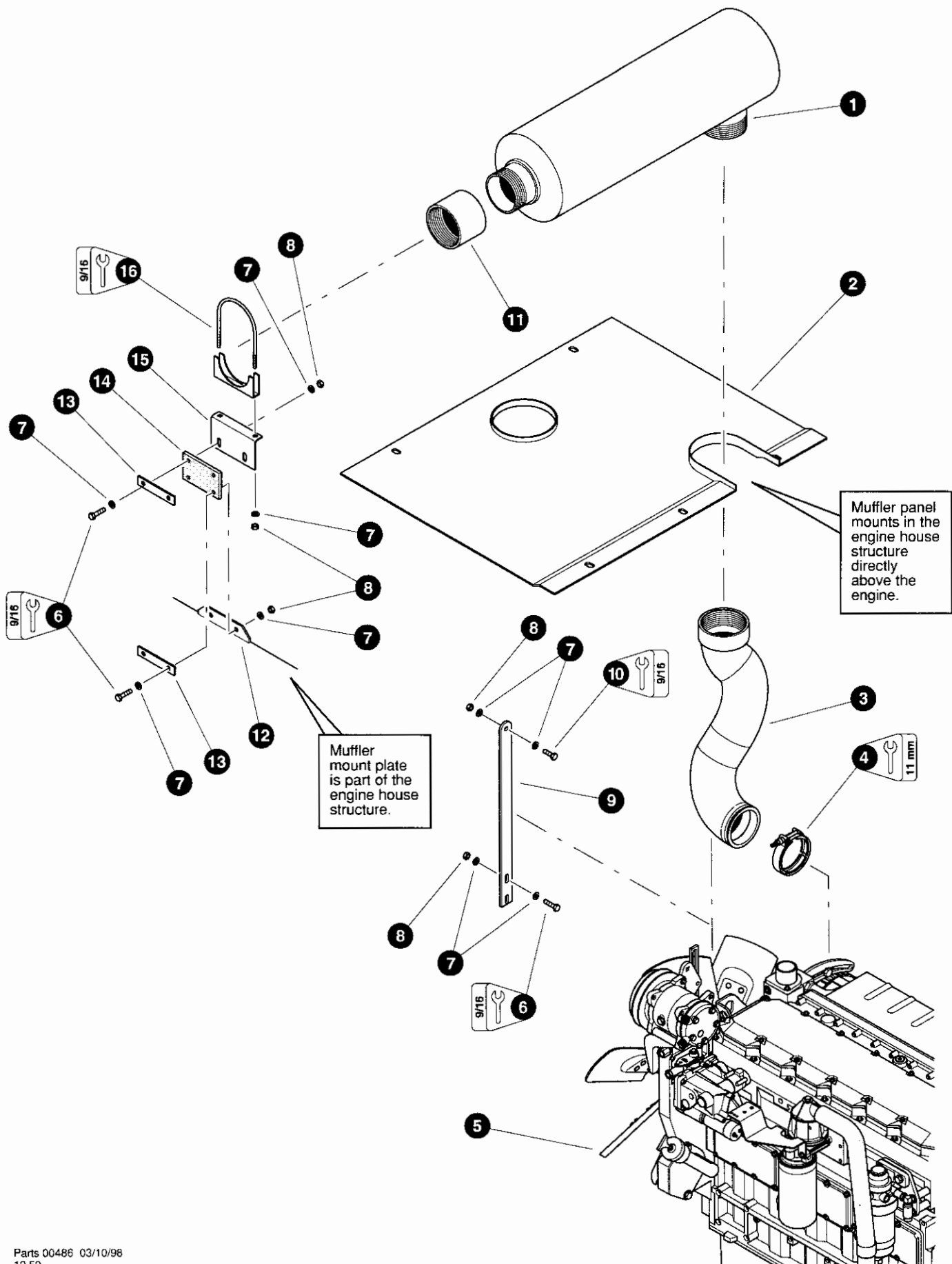
- ☐ Kit or Assembly - includes all items indented underneath.



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.

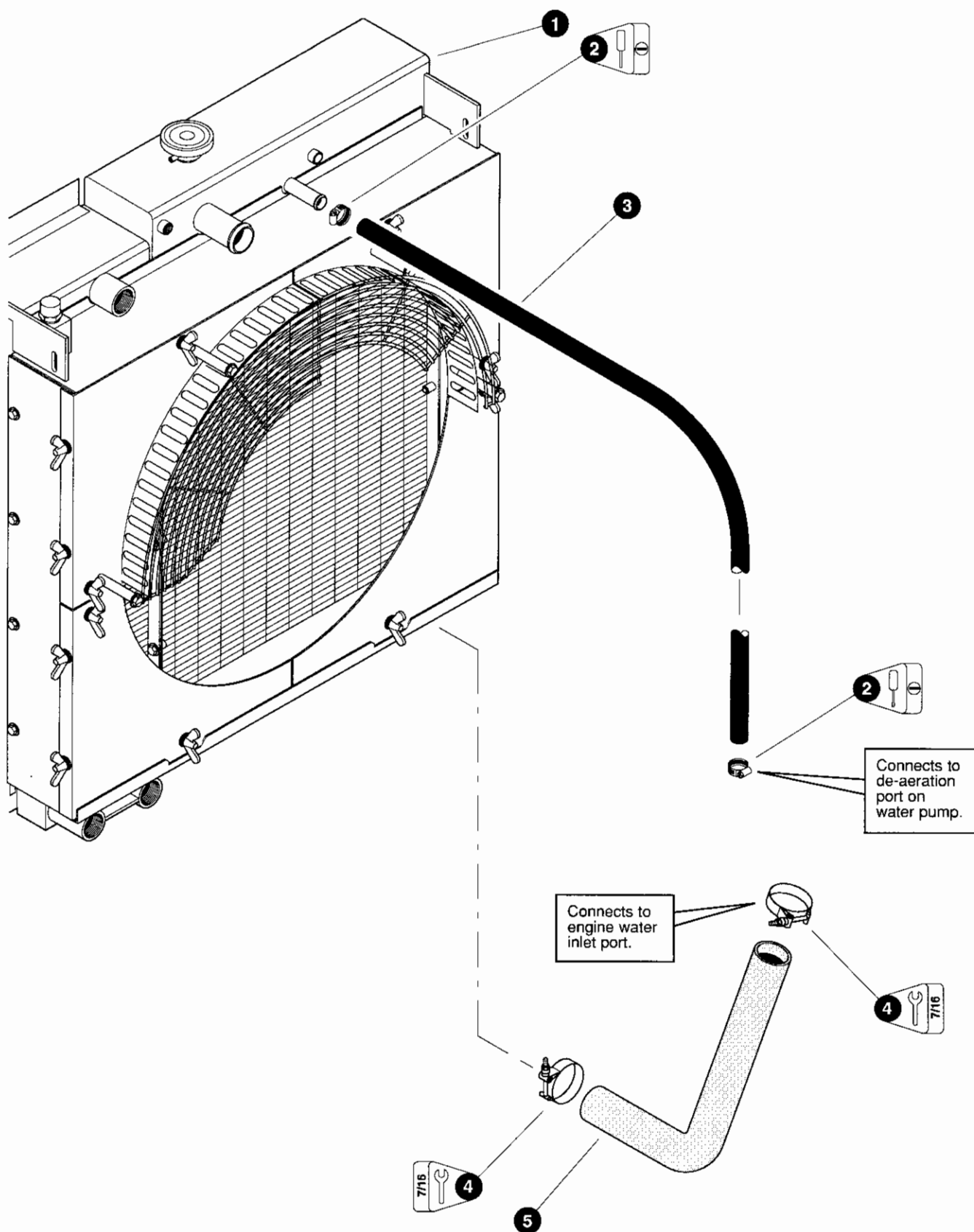


Parts 00486 03/10/98
12.50

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.



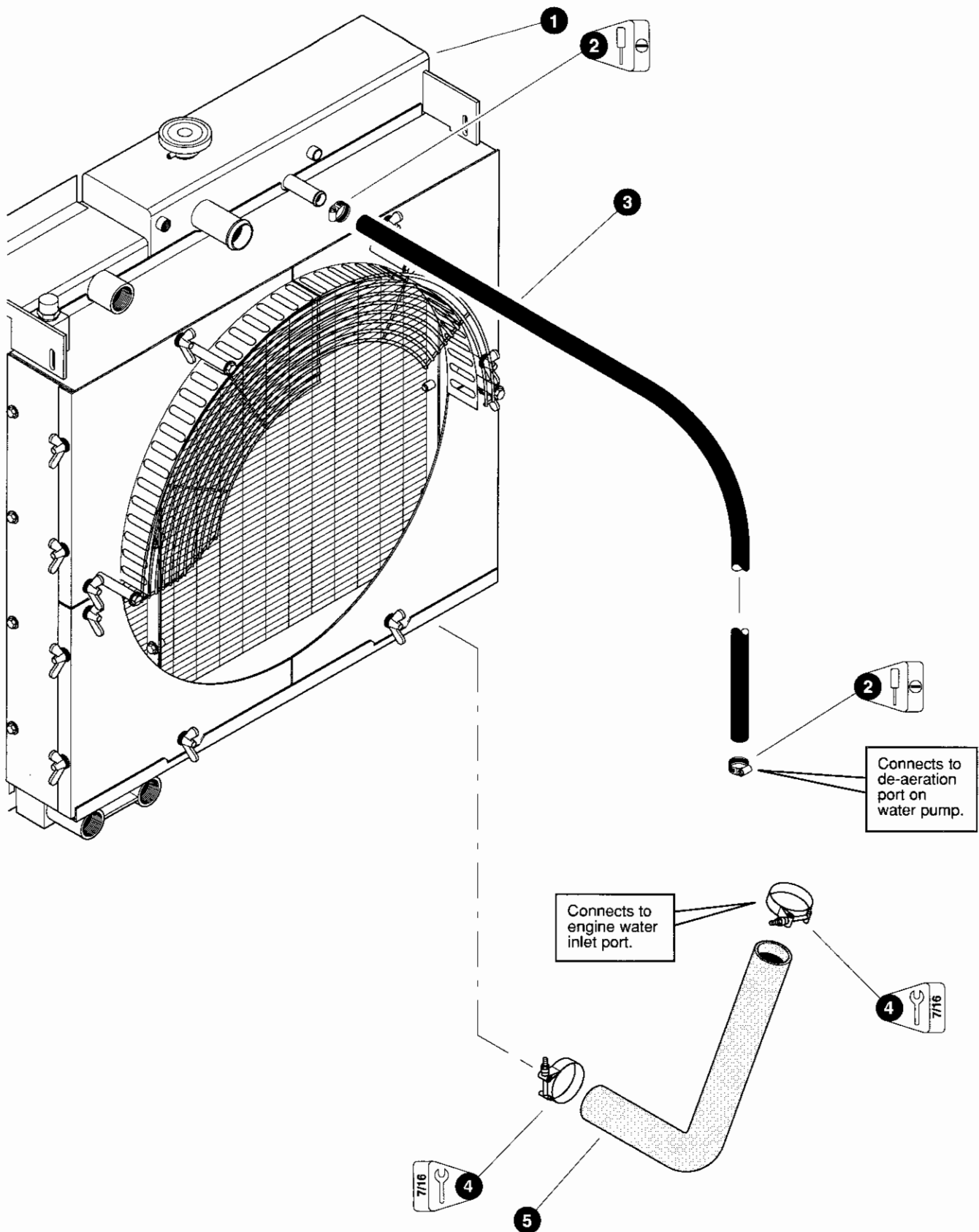
Parts 00487 03/10/98
18.75

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	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.



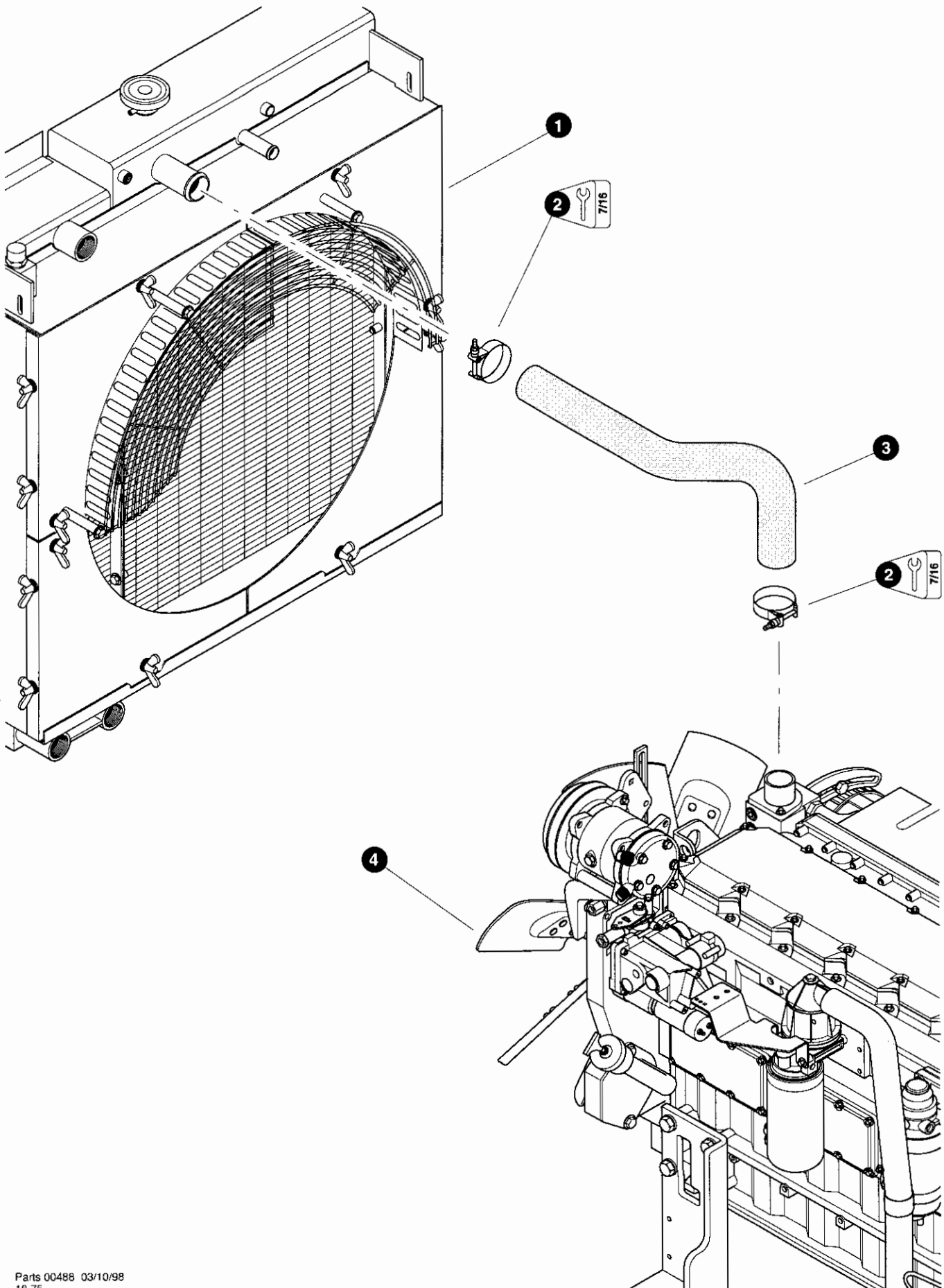
Parts 00487 03/10/98
18.75

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)

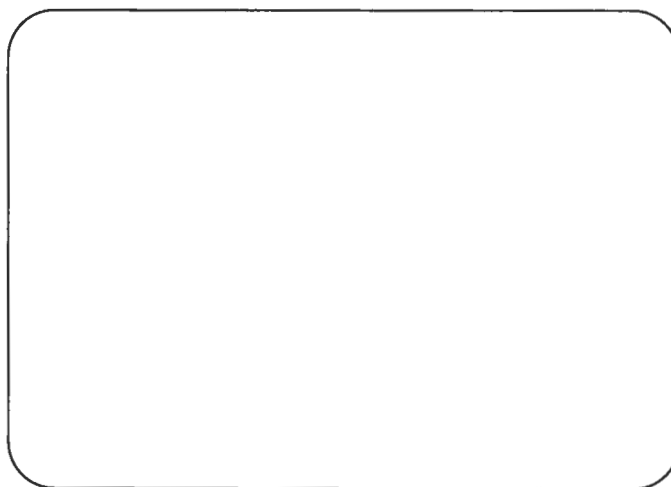
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	RADIATOR/OIL COOLER ASSEMBLY	F.2.2
2	18651	2		CLAMP, constant torque - #32	
3	18346	1		HOSE, upper radiator	
5	REF.	1	✓	ENGINE - Caterpillar	F.4.2

✓ See referenced page for component or assembly breakdown.

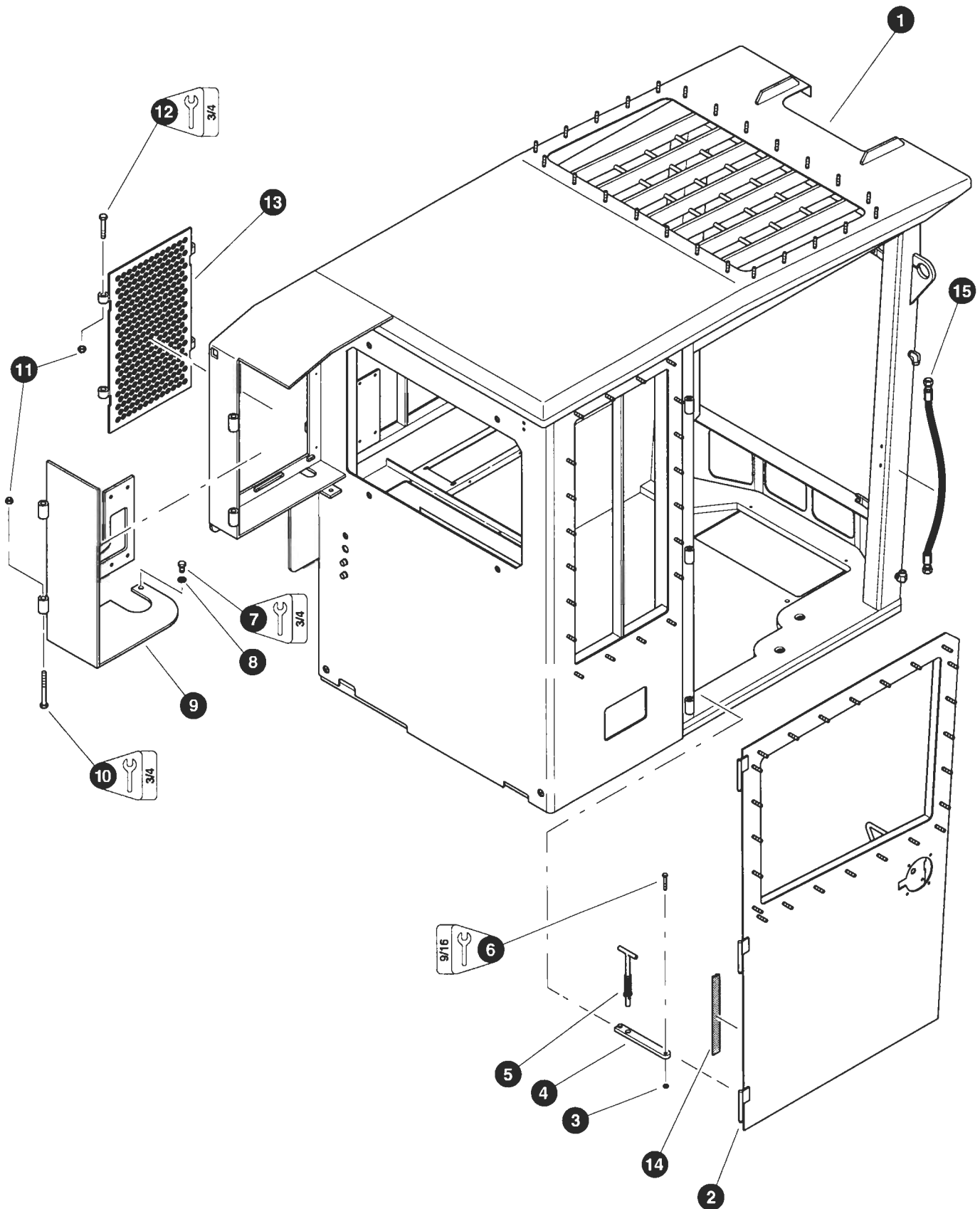
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Section G.1



Operator's Cab - Cab Weldment Installation



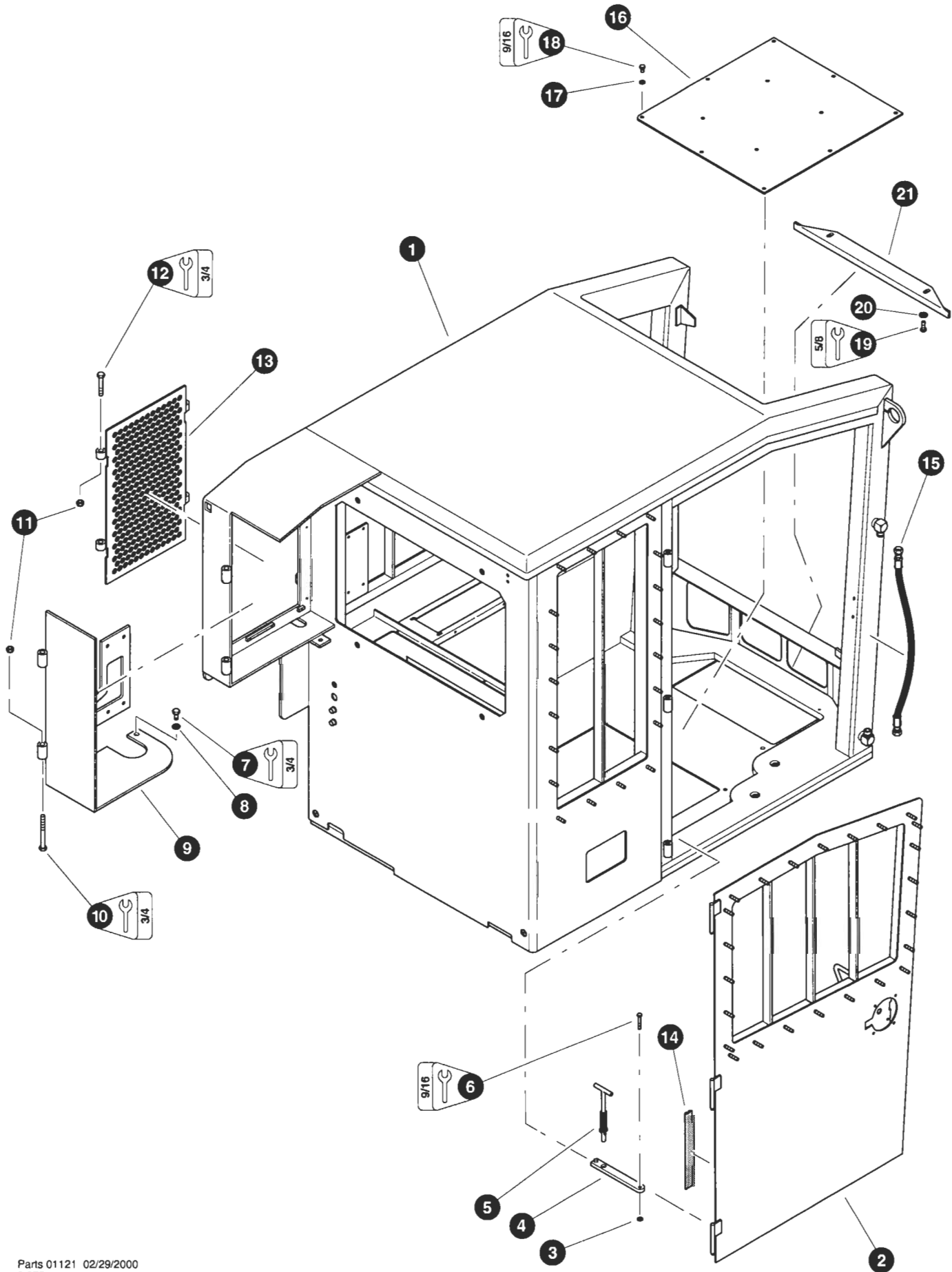
Parts 00373 12/21/97
9.375

CAB WELDMENT ASSEMBLY*(Used on machines PDN# 080FWD and below)*

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19475	1	☐	WELDMENT, stretched short-top cab	
2	19247	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 - condenser	
14	18126	AR	⌘	WEATHERSTRIP	
15	20071	1		HOSE ASSEMBLY - 2032.5-08-10JS-10JS (Used as hand hold)	

☐ Kit or Assembly - includes all items indented underneath.

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



Parts 01121 02/29/2000
9.375

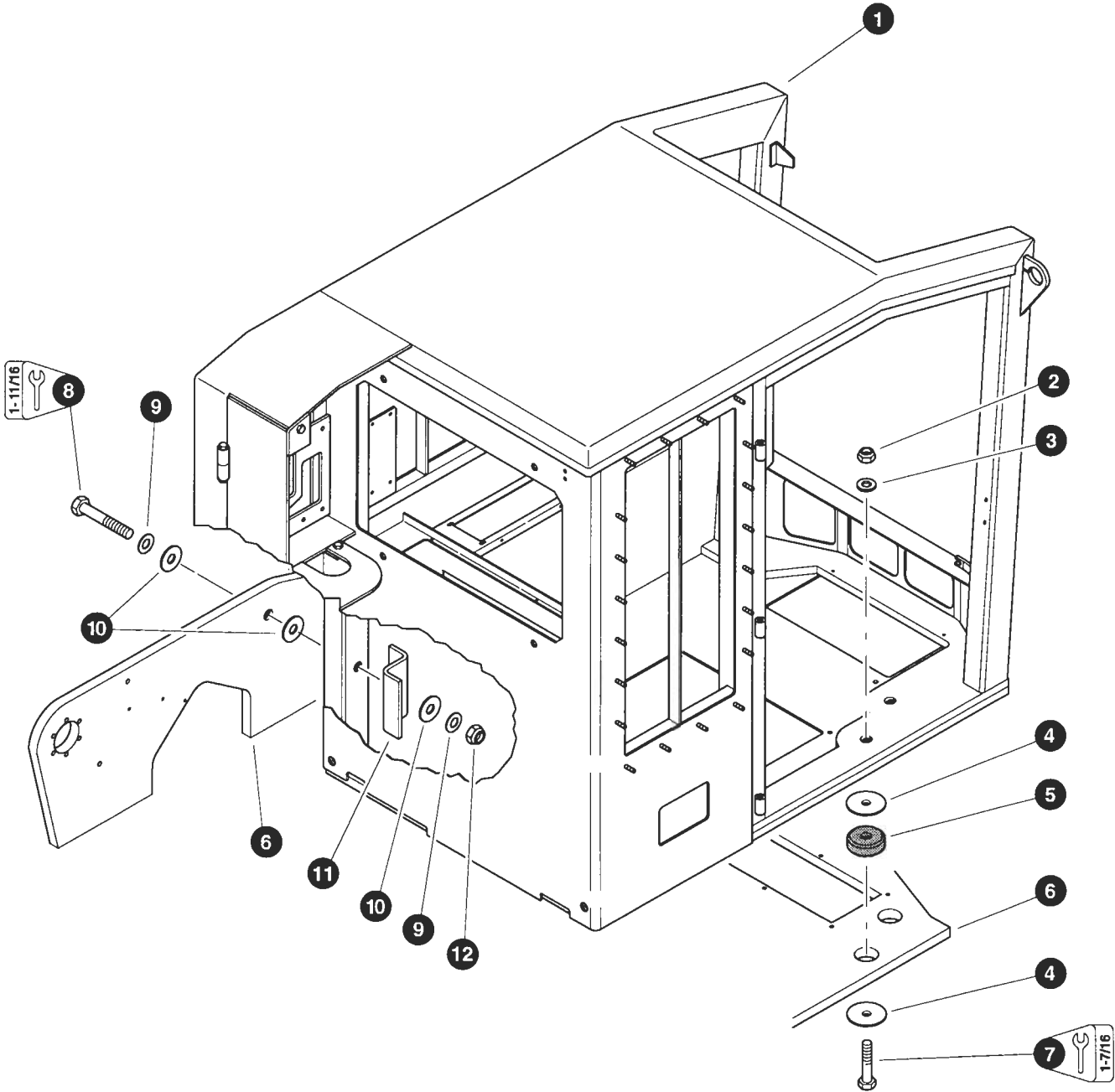
CAB WELDMENT ASSEMBLY (Skyview Cab)

(Used on machines PDN# 081FWD and above)

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 - condenser	
14	18126	AR	⌘	WEATHERSTRIP	
15	20071	1		HOSE ASSEMBLY - 2032.5-08-10JS-10JS (Used as hand hold)	
16	22105	1		COVER, floor access	
17	15528	8		WASHER, SAE flat - 3/8"	
18	15542	8		BOLT - 3/8" x 3/4"	

☐ Kit or Assembly - includes all items indented underneath.

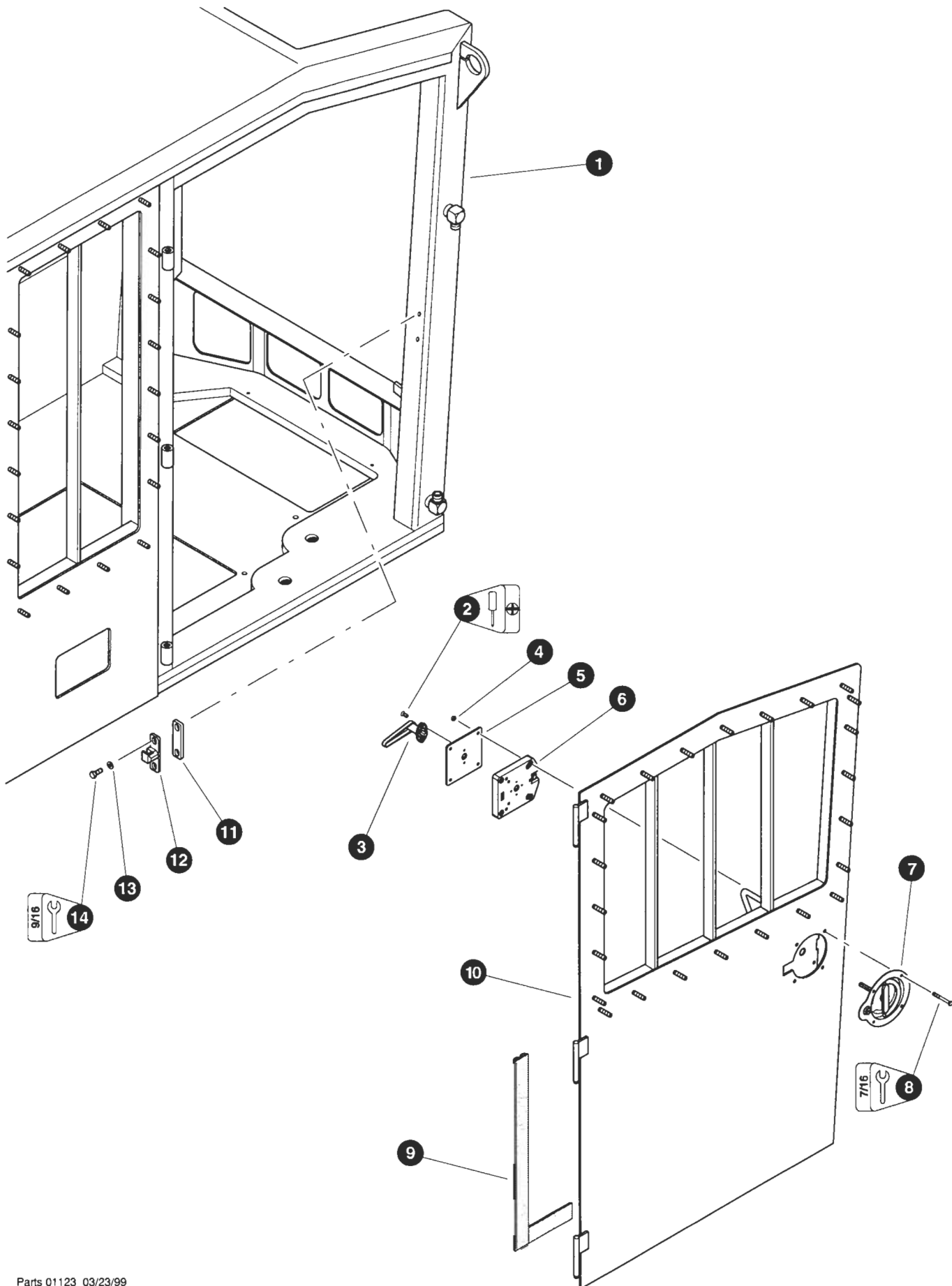
⌘ Bulk material - order length required in feet or meters.



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

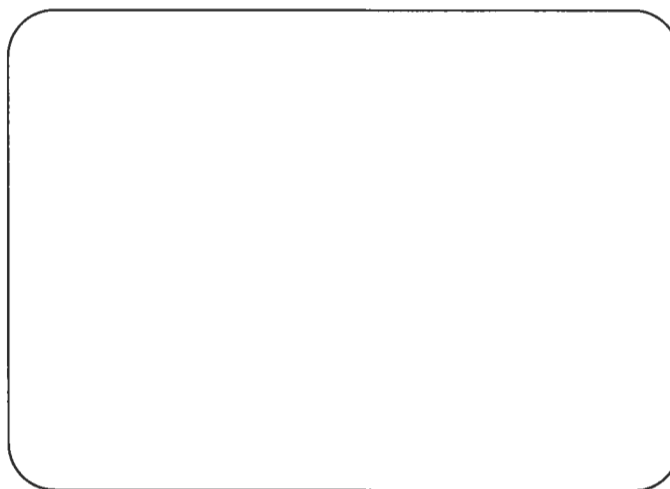
DOOR LATCH INSTALLATION

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		STIFFENER, 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	⌘	WEATHERSTRIP, 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"	

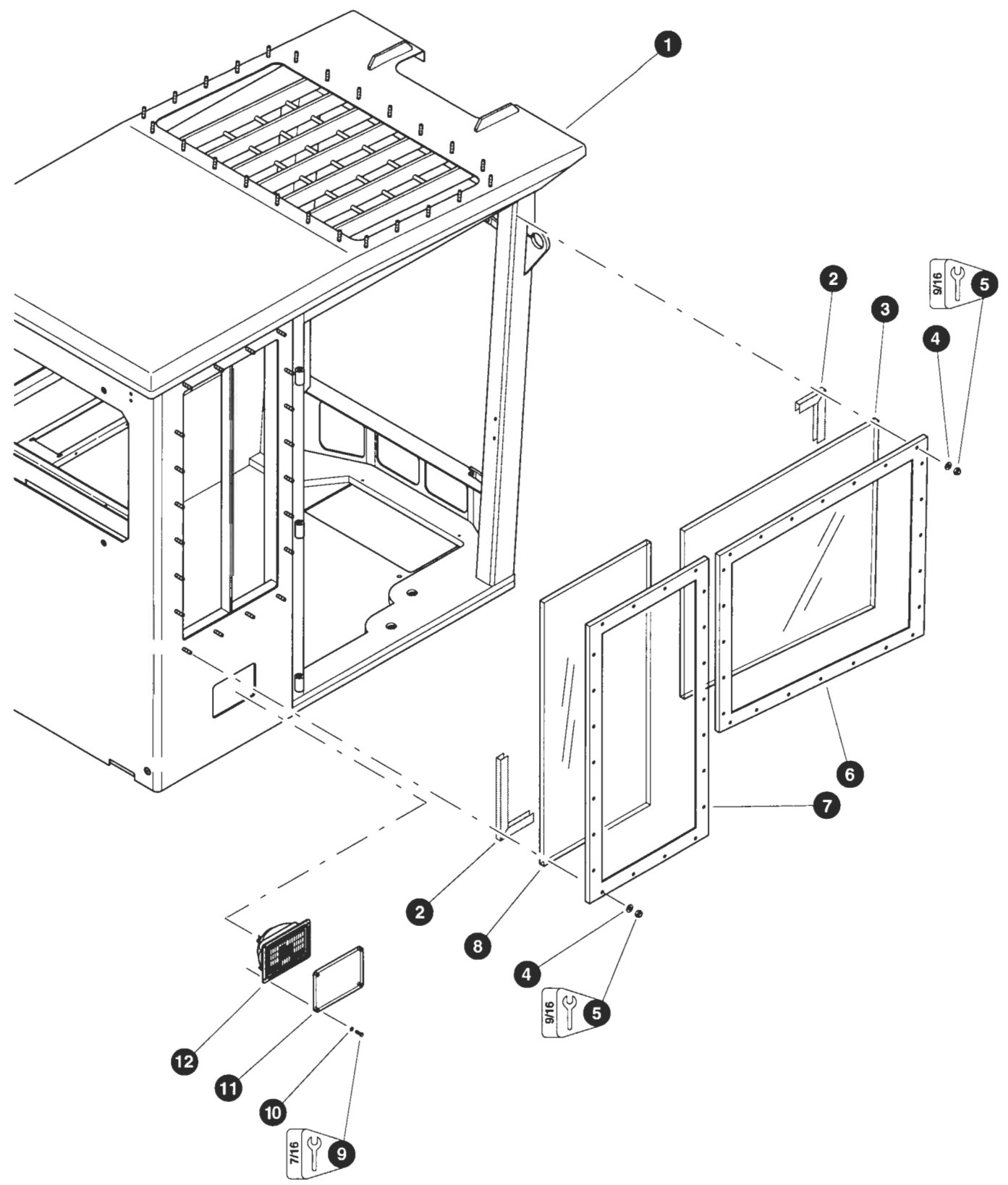
✓ See referenced page for component or assembly breakdown.

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

[illegible]



Operator's Cab - Window Installation



Parts 00342 12/21/97
9.375

WINDOW INSTALLATION

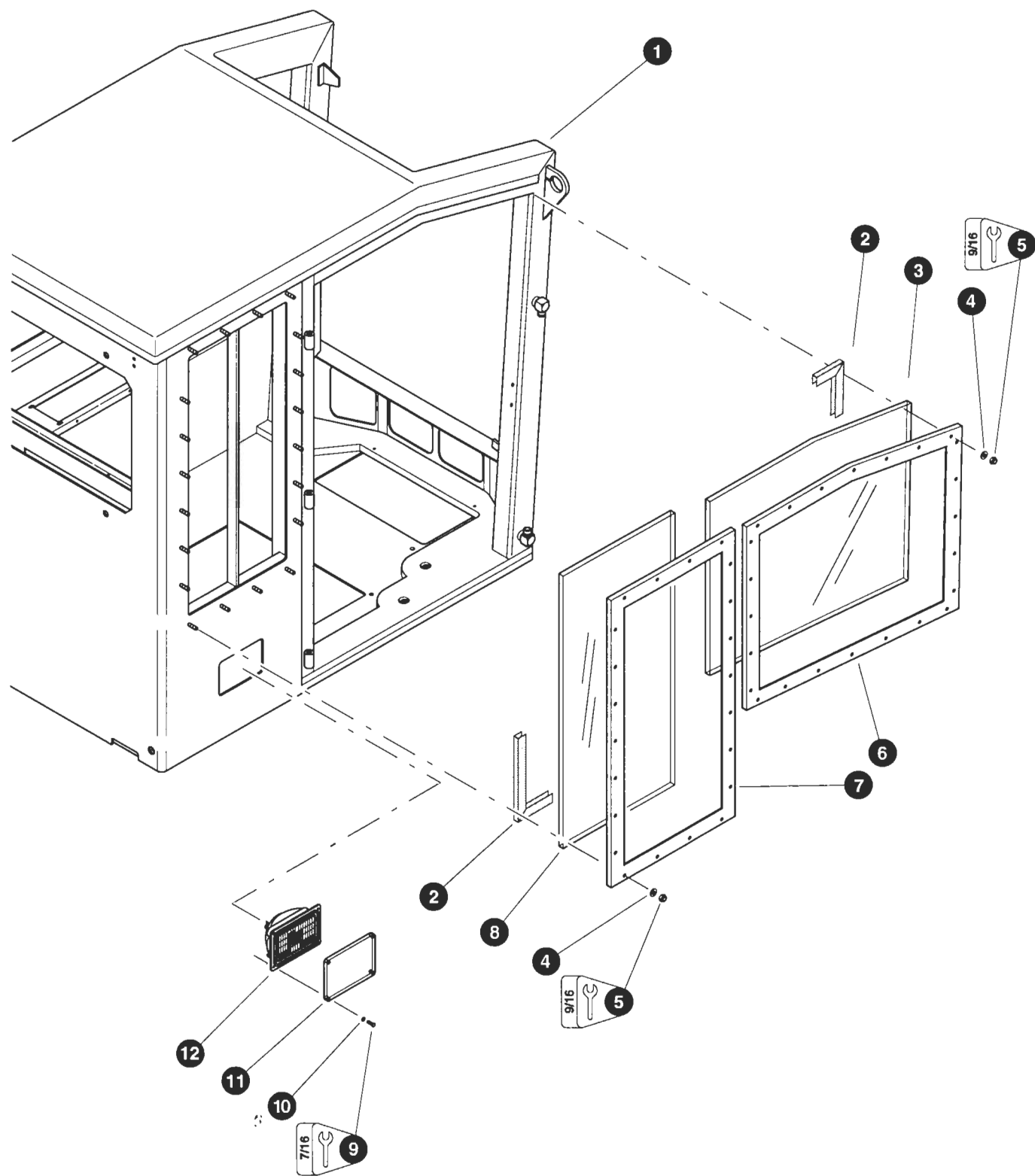
(Right Side Rear & Door)

(Used on machines PDN# 080FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	CAB WELDMENT	G.1.2
2	16230	AR	⌘	CHANNEL, window molding	
3	17198	1		LEXON, door window	
4	15528	46		WASHER, SAE flat - 3/8"	
5	15507	46		NUT, nylock - 3/8"	
6	17274	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 meters.



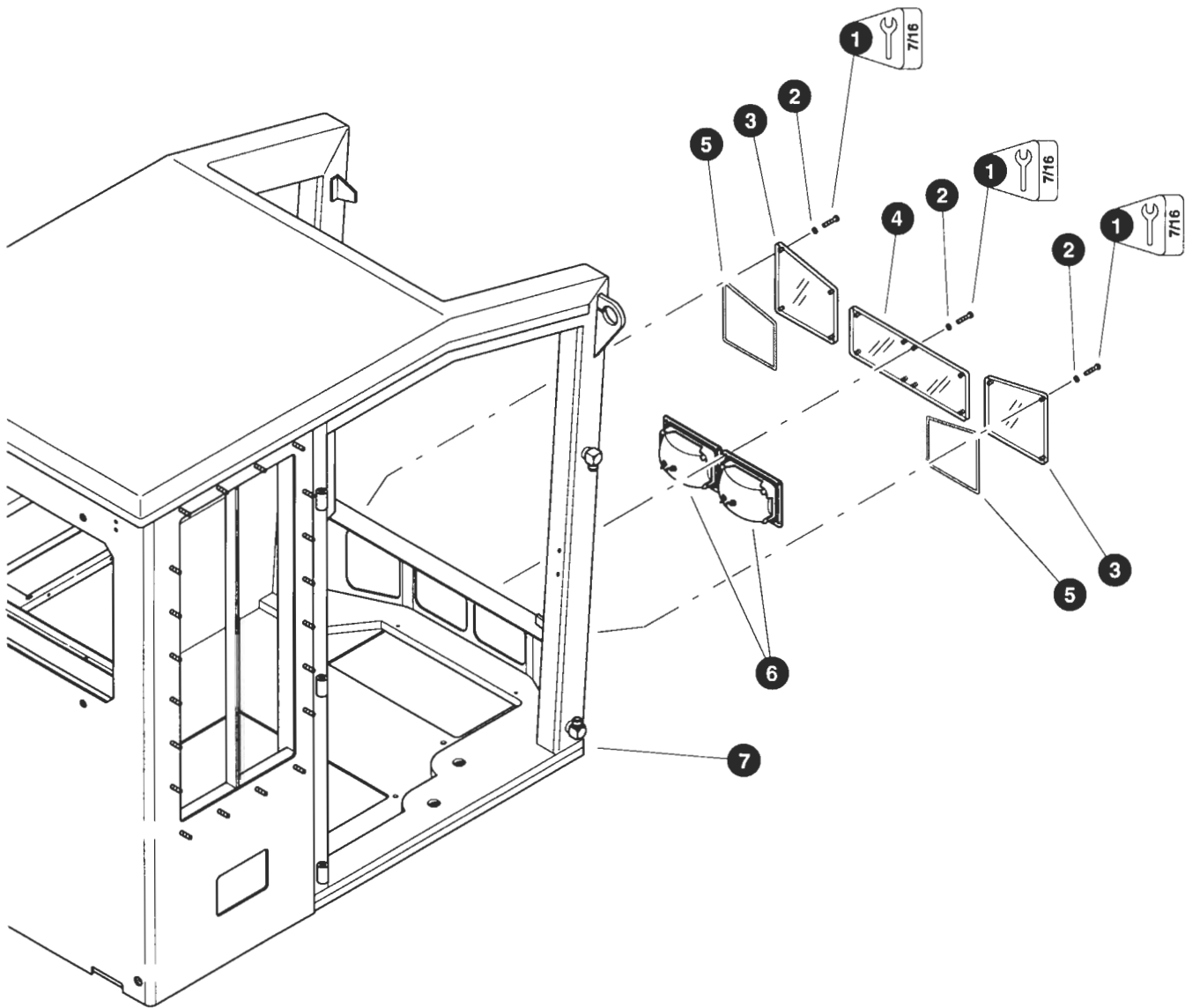
Parts 01124 03/24/99
9.375

WINDOW INSTALLATION (Right Side Rear & Door)

(Used on machines PDN# 081FWD and above)

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 meters.



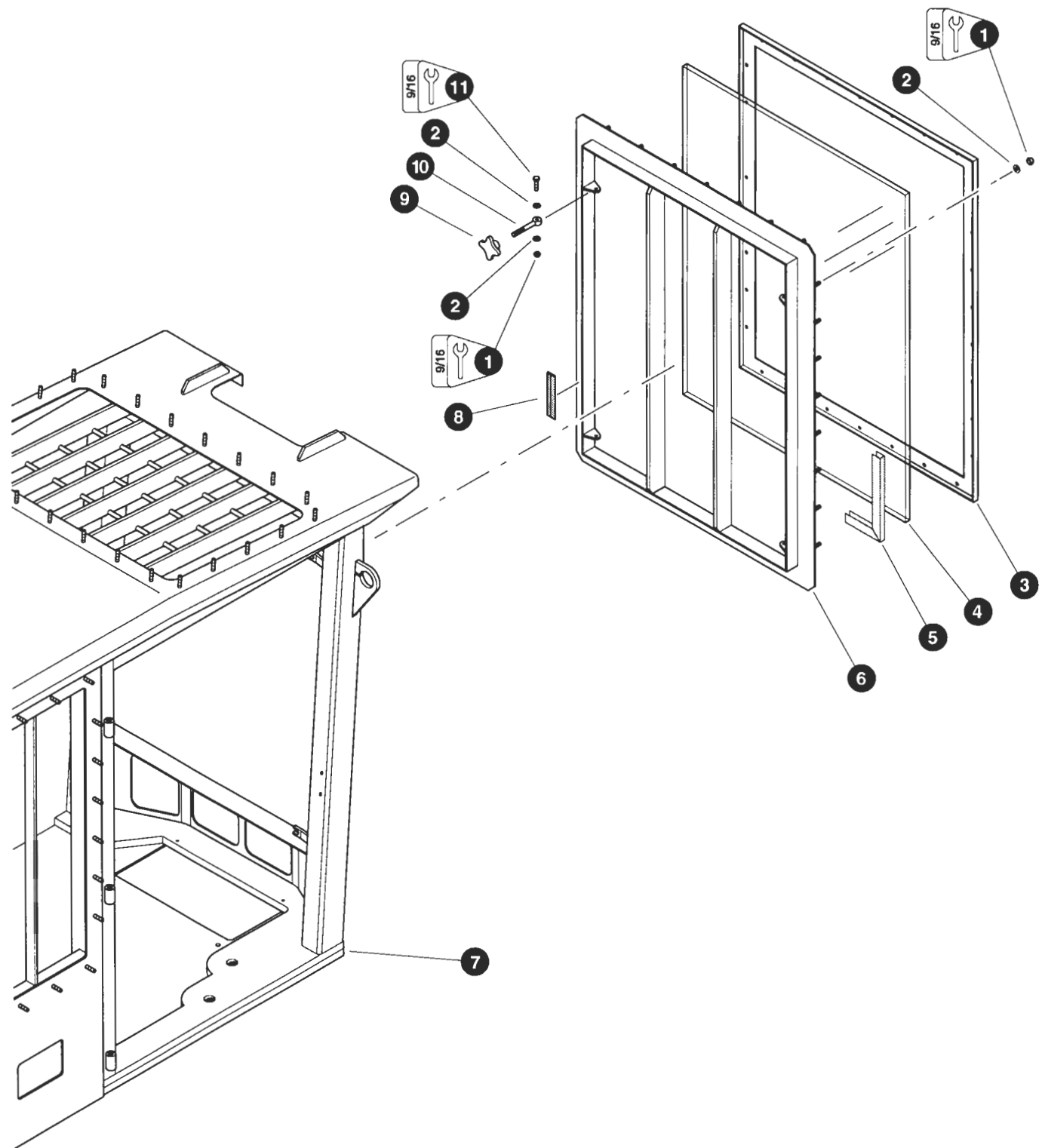
Parts 01125 03/24/99
9.375

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 meters.

✓ See referenced page for component or assembly breakdown.



Parts 01137 03/30/99
9.375

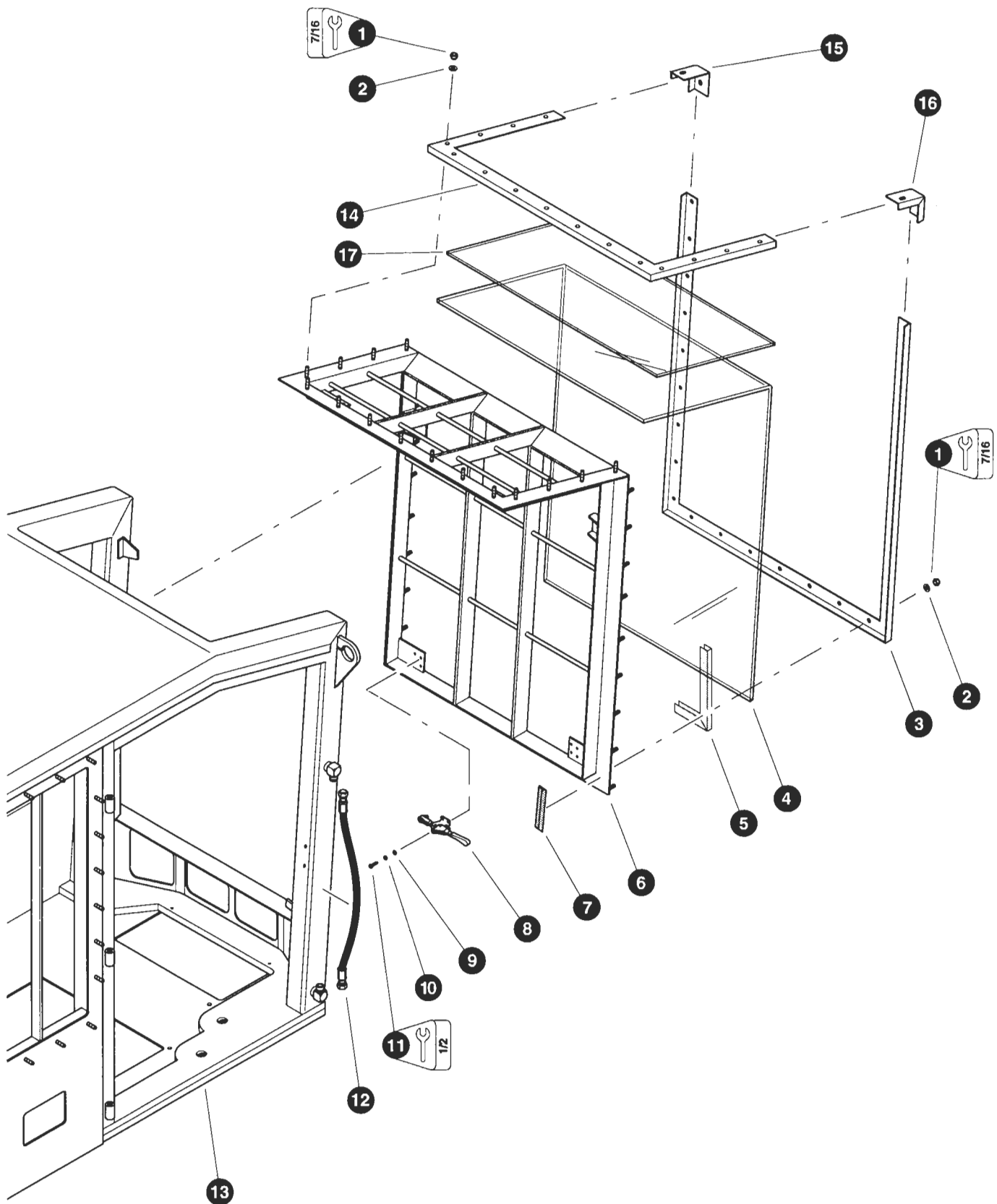
WINDOW INSTALLATION (Front Escape)

(Used on machines PDN# 080FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15507	34		NUT, nylock - 3/8"	
2	15528	38		WASHER, SAE flat - 3/8"	
3	18215	1		FRAME, front window	
4	18216	1		LEXON, front window	
5	16230	AR	⌘	CHANNEL, window molding	
6	19500	1		HATCH, front window escape	
7	REF.	1	✓	CAB WELDMENT	G.1.2
8	18126	AR	⌘	WEATHERSTRIP	
9	12013	4		KNOB, star	
10	19510	4		BOLT, eye - 1/2" x 4"	
11	10731	4		BOLT - 3/8" x 1-1/2"	

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

✓ See referenced page for component or assembly breakdown.



Parts 01128 08/01/00
9.375

WINDOW INSTALLATION

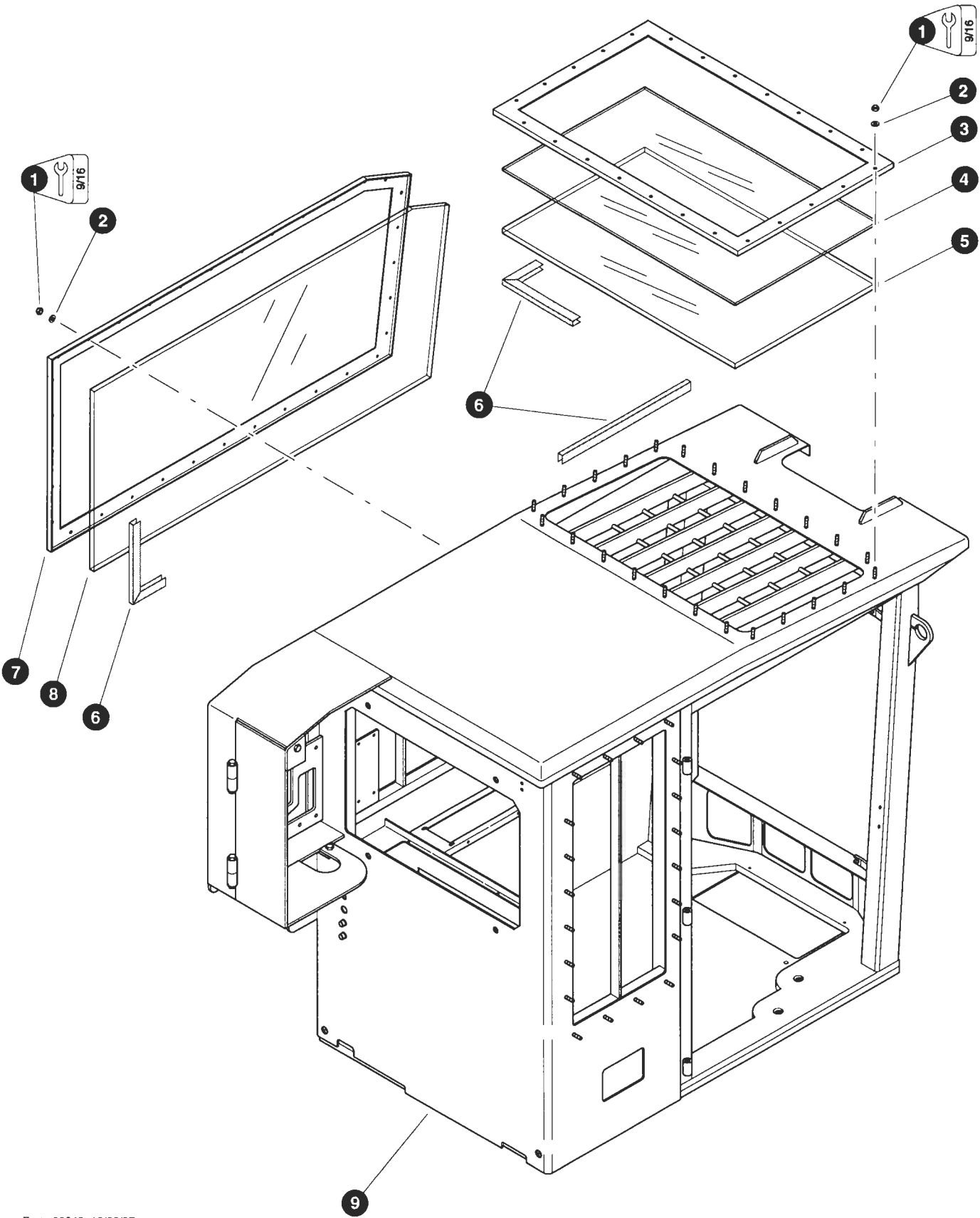
(Front Escape / Skylight)

(Used on machines PDN# 081FWD and above)

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 meters.

✓ See referenced page for component or assembly breakdown.



Parts 00349 12/22/97
9.375

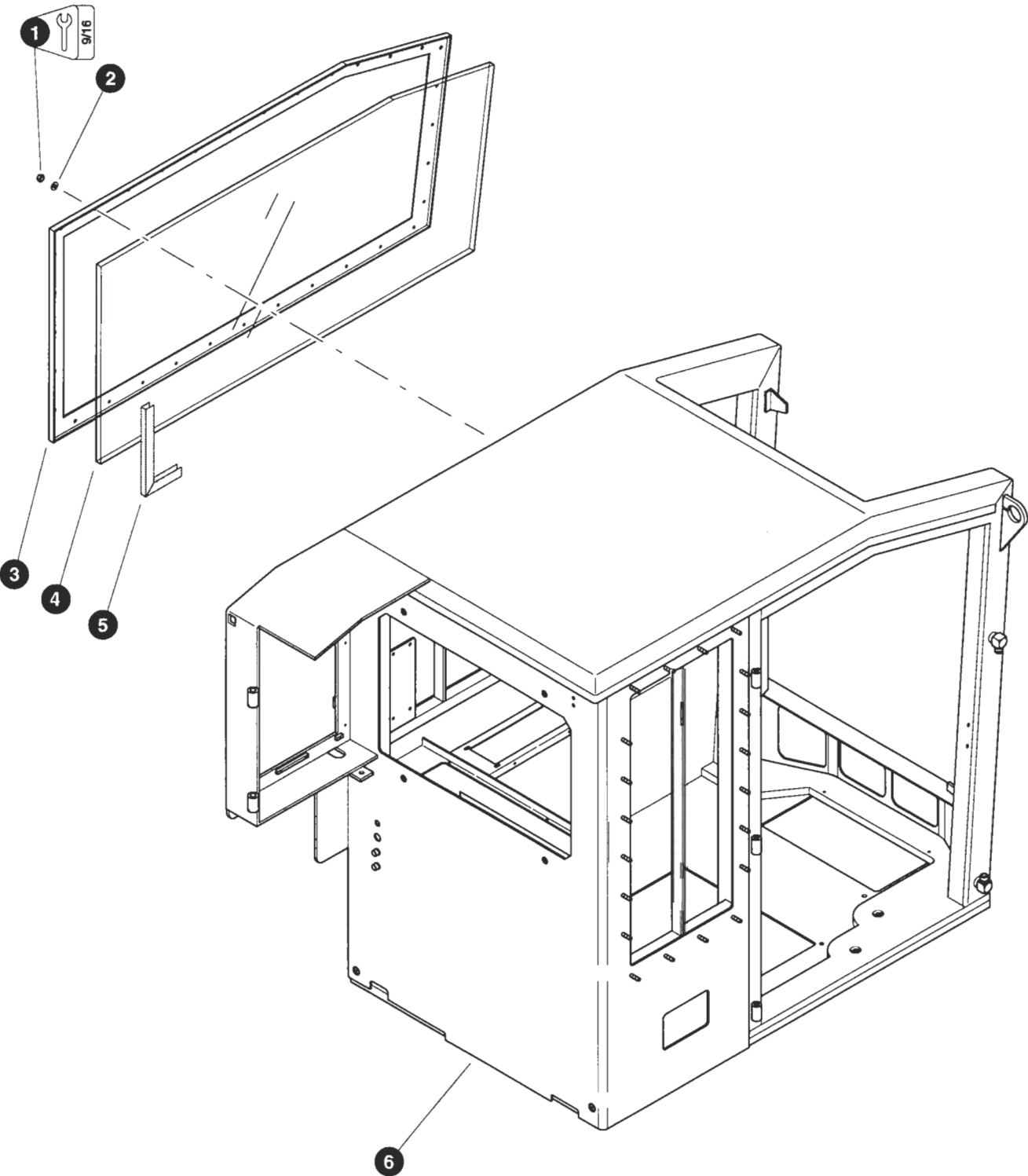
WINDOW INSTALLATION (Left Side & Skylight)

(Used on machines PDN# 080FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15507	56		NUT, nylock - 3/8"	
2	15528	56		WASHER, SAE flat - 3/8"	
3	19904	1		FRAME, skylight window	
4	19903	1		LEXON, skylight (Tinted gray)	
5	19994	1		LEXON, skylight scratch guard	
6	16230	AR	⌘	CHANNEL, window molding	
7	19504	1		FRAME, left side window	
8	19508	1		LEXON, left side window	
9	REF.	1	✓	CAB WELDMENT	G.1.2

✓ See referenced page for component or assembly breakdown.

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



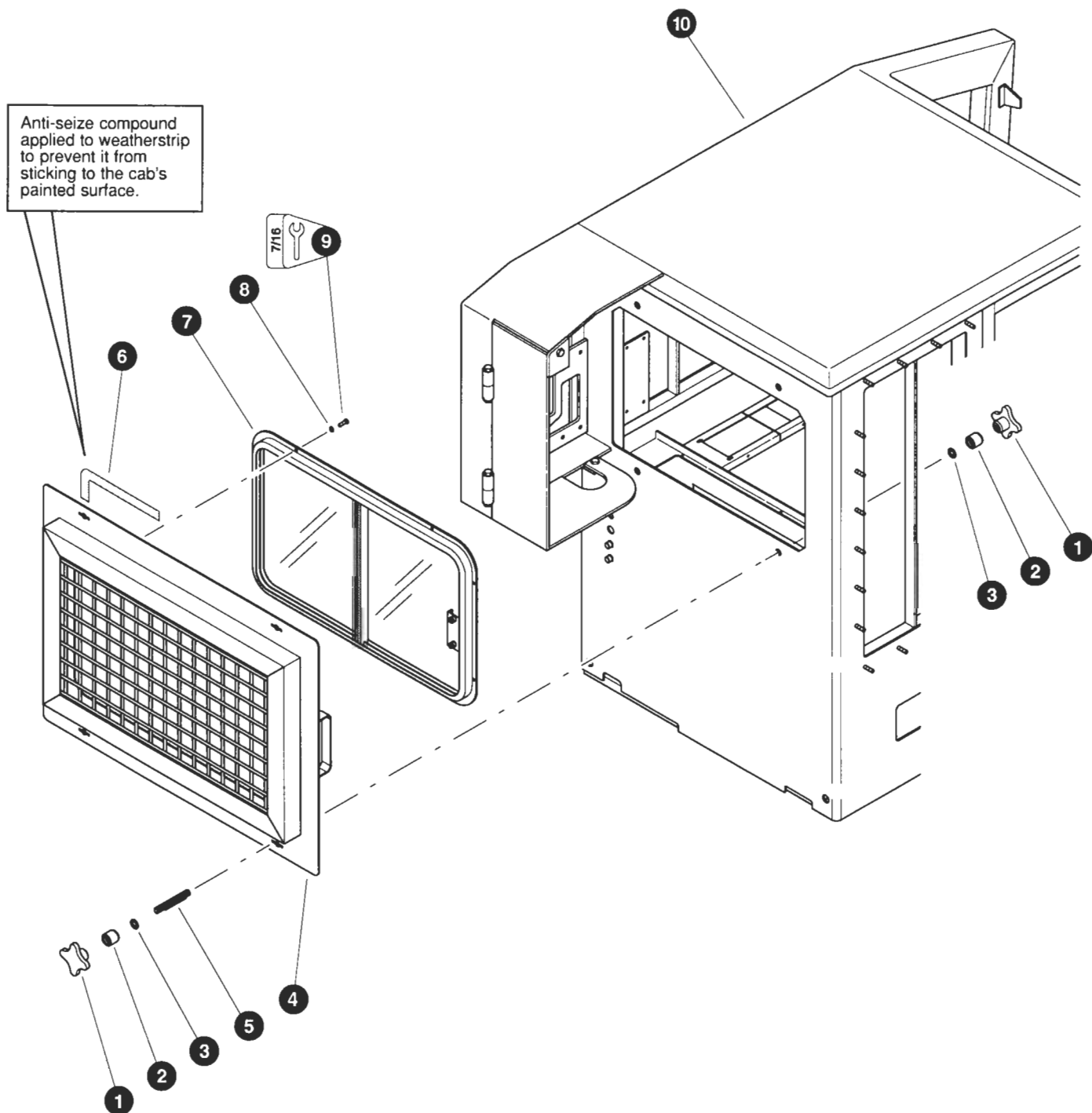
Parts 01126 03/24/99
9.375

WINDOW INSTALLATION (Left Side)

(Used on machines PDN# 081FWD and above)

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 meters.



Parts 01127 03/24/99
9.375

WINDOW INSTALLATION

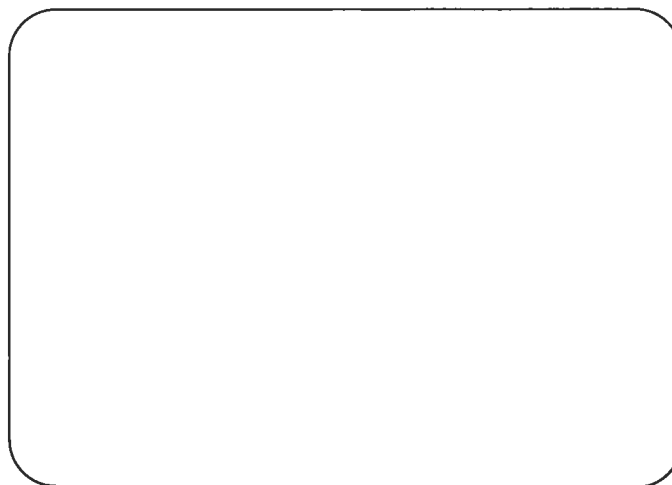
(Rear Sliding & Emergency Escape)

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

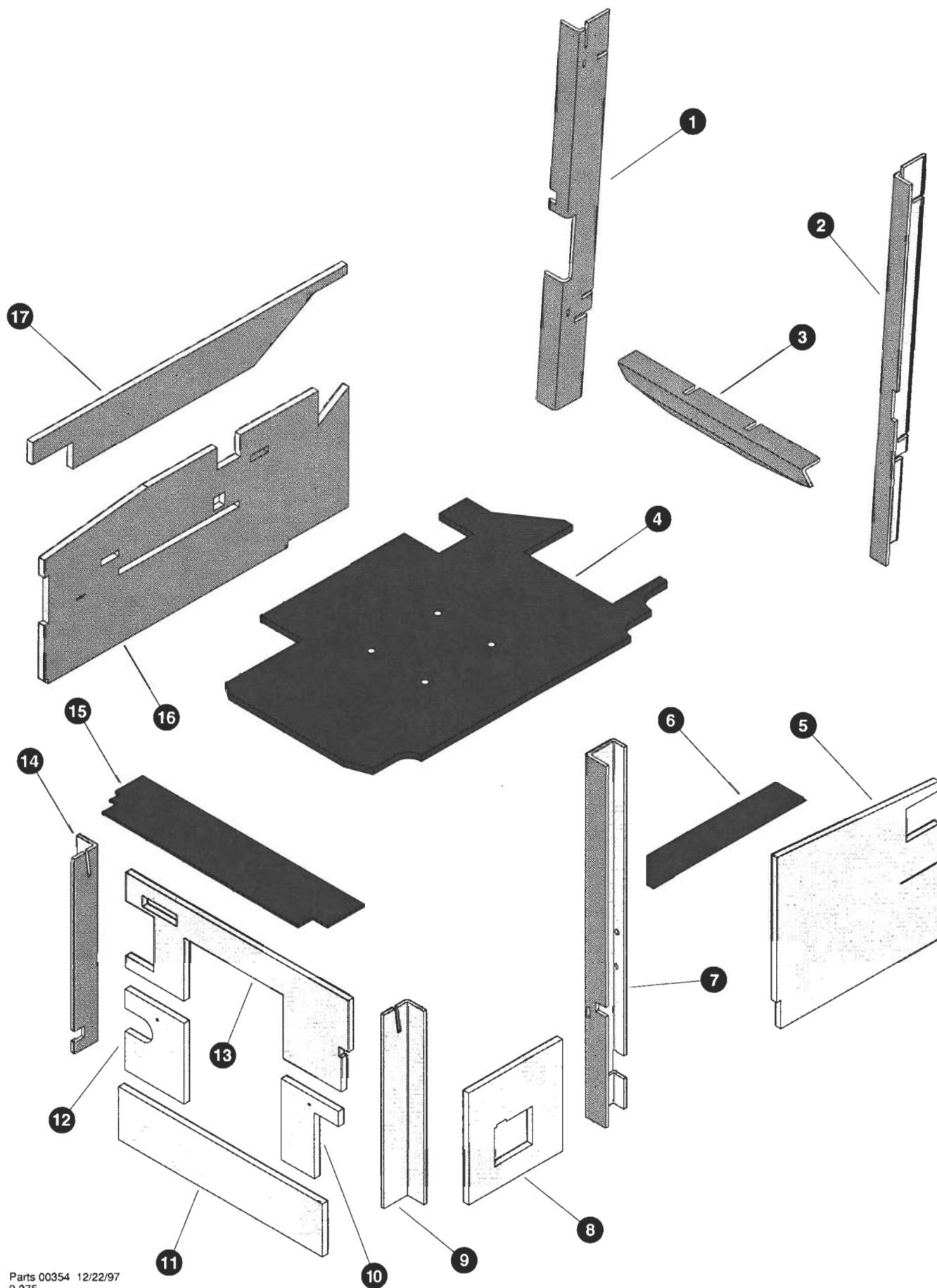
⌘ Bulk material - order length required in feet or meters.

✓ See referenced page for component or assembly breakdown.

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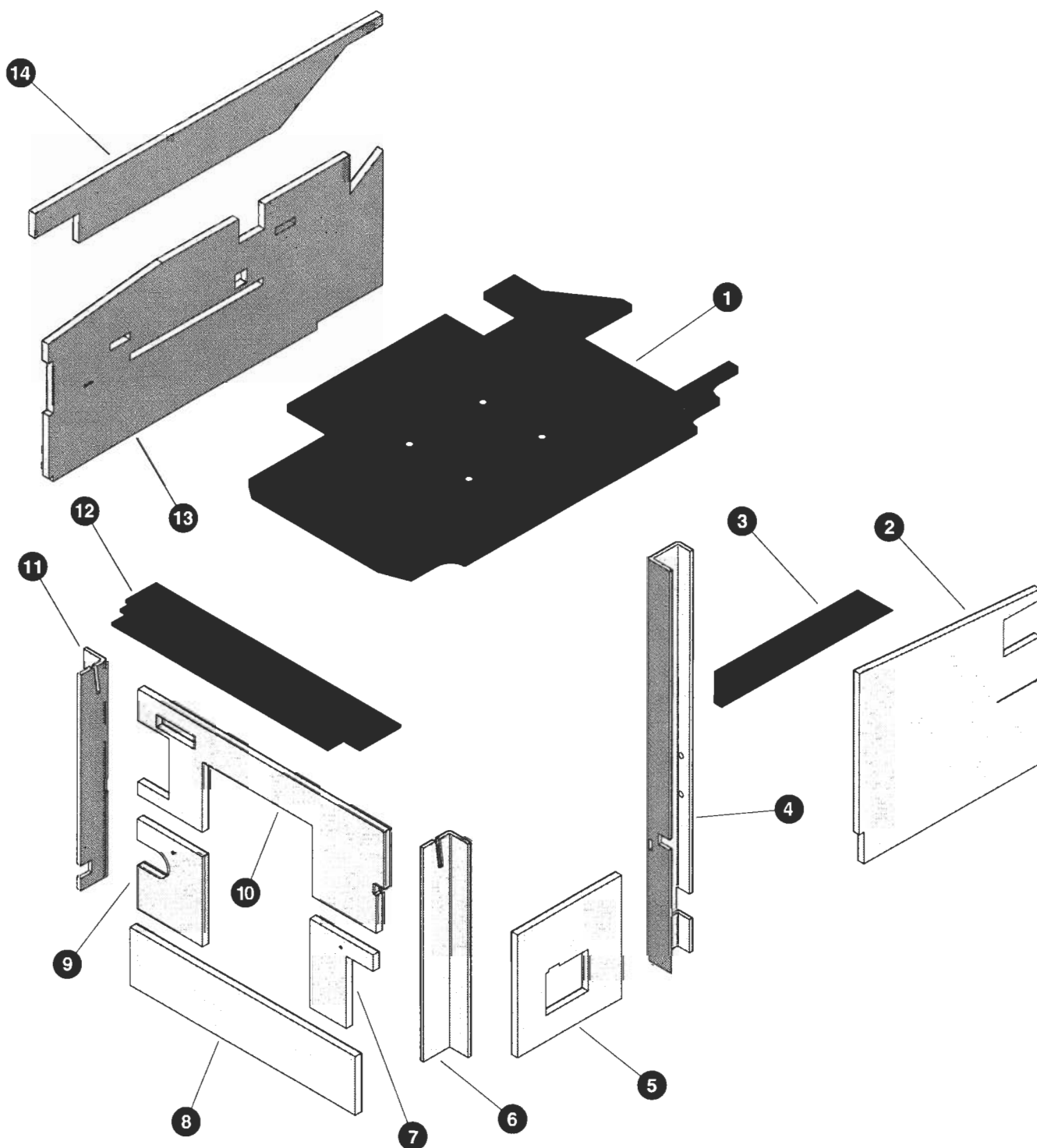
Operator's Cab - Interior Components



INTERIOR TRIM & FLOORMAT (Lower Areas)

(Used on machines PDN# 080FWD and below)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	19885	1	TRIM, formed - LH front post	
2	19886	1	TRIM, formed - RH front post	
3	19883	1	TRIM, formed - front window bottom	
4	19887	1	FLOORMAT, cab	
5	19879	1	TRIM, panel - door	
6	17358	1	FLOORMAT, door tray	
7	19880	1	TRIM, formed - door post	
8	20225	1	TRIM, panel - RH light	
9	19881	1	TRIM, formed - RH rear post (Cut to length required)	
10	20226	1	TRIM, panel - A/C - RH	
11	20227	1	TRIM, panel - rear bottom	
12	20228	1	TRIM, panel - A/C - LH	
13	20229	1	TRIM, panel - rear top	
14	19882	1	TRIM, formed - LH rear post (Cut to length required)	
15	20230	1	FLOORMAT, rear shelf	
16	20231	1	TRIM, panel - LH bottom	
17	20232	1	TRIM, panel - LH top	

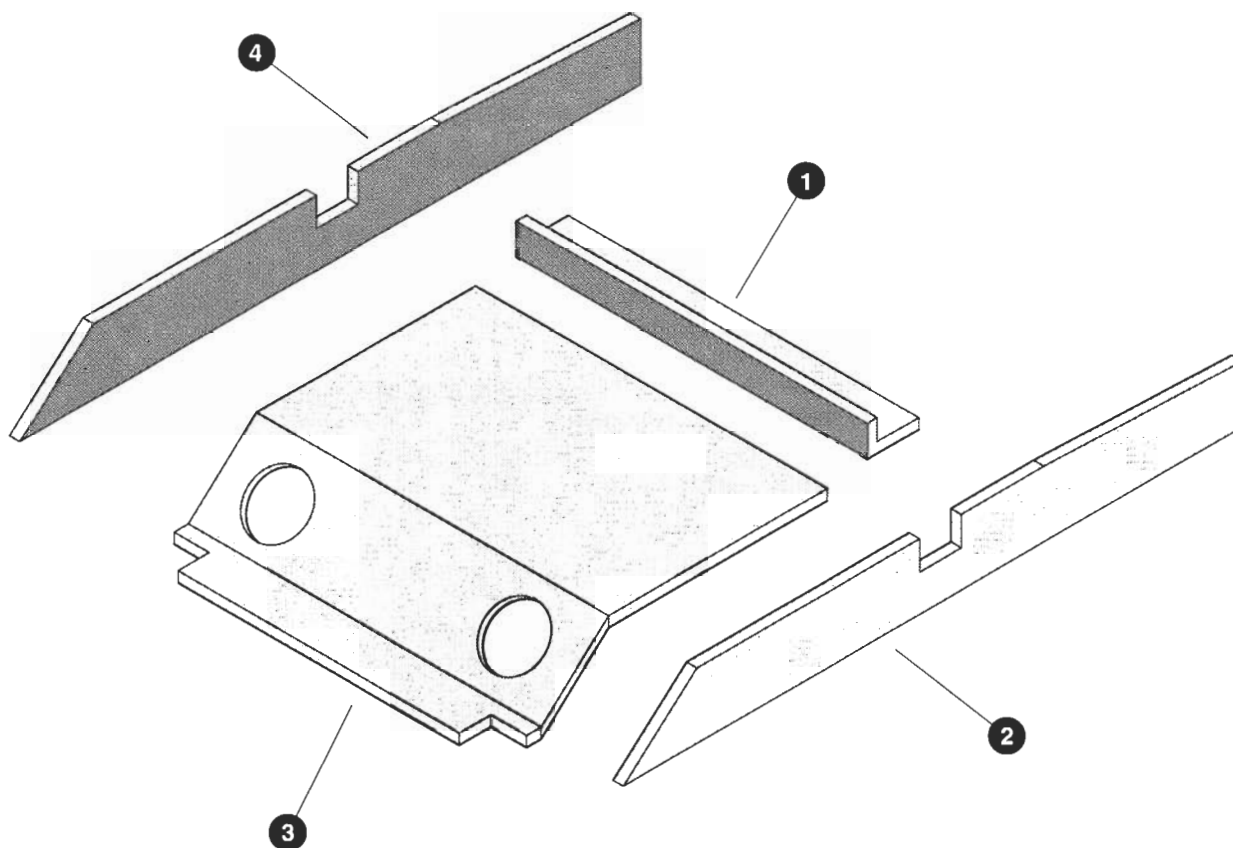


Parts 01133 03/26/99
9.375

INTERIOR TRIM & FLOORMAT (Lower Areas)

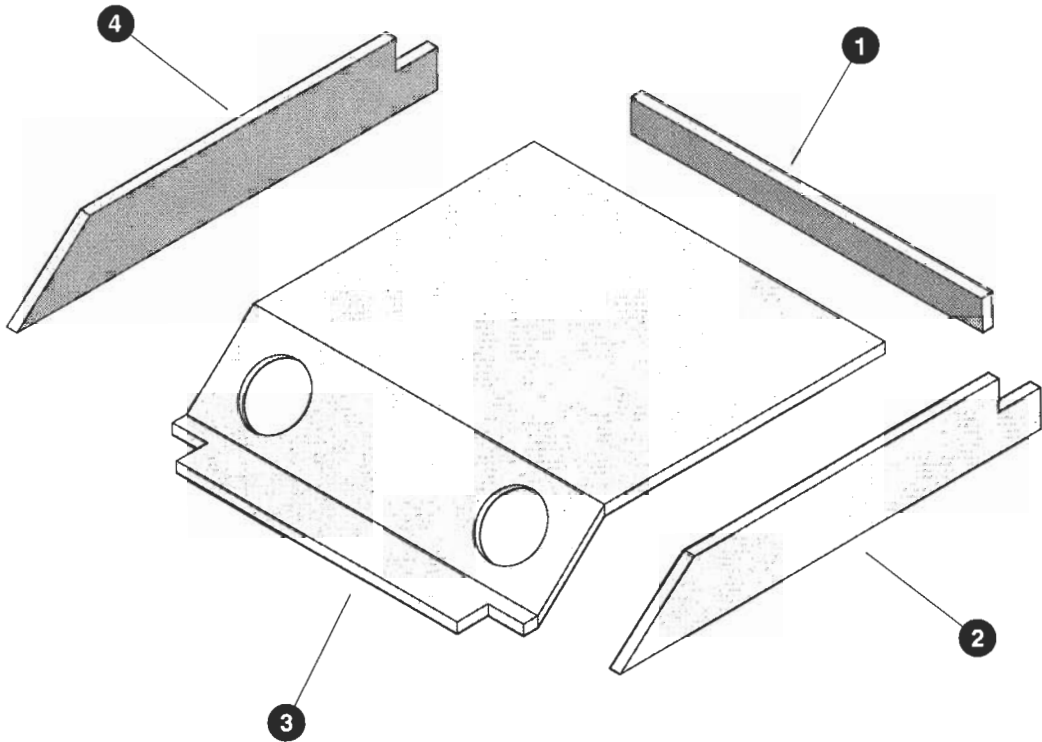
(Used on machines PDN# 081FWD and above)

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	



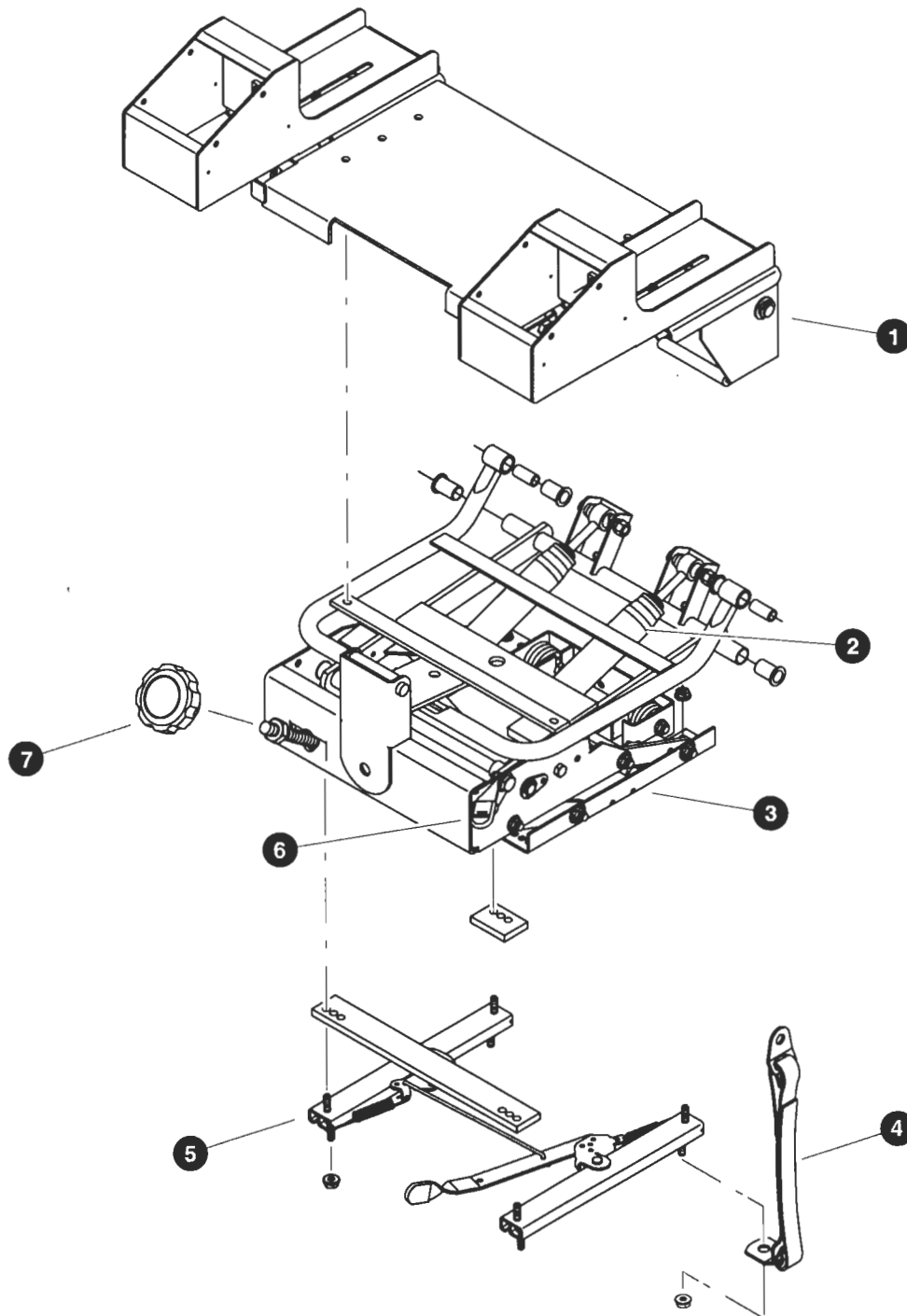
**INTERIOR TRIM & FLOORMAT
(Headliner Areas)***(Used on machines PDN# 080FWD and below)*

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	20233	1	TRIM, panel - headliner roof beam	
2	20234	1	TRIM, panel - headliner side strip - RH	
3	20236	1	TRIM. panel - headliner roof	
4	20235	1	TRIM, panel - headliner side strip - LH	



INTERIOR TRIM & FLOORMAT
(Headliner Areas)*(Used on machines PDN# 081FWD and above)*

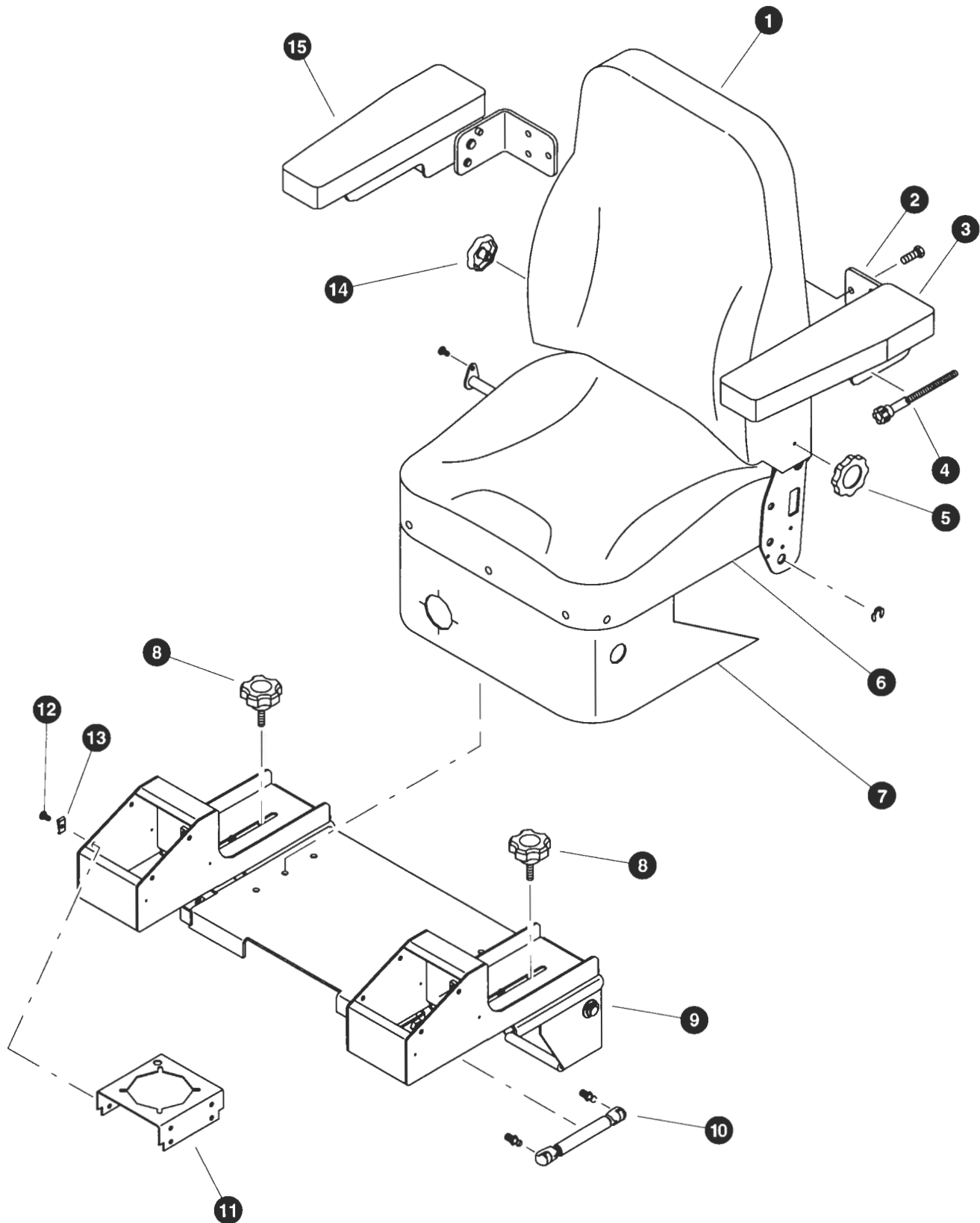
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	22309	1	TRIM, panel - headliner roof beam	
2	22310	1	TRIM, panel - headliner side strip - RH	
3	20312	1	TRIM. panel - headliner roof	
4	22311	1	TRIM, panel - headliner side strip - LH	



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.

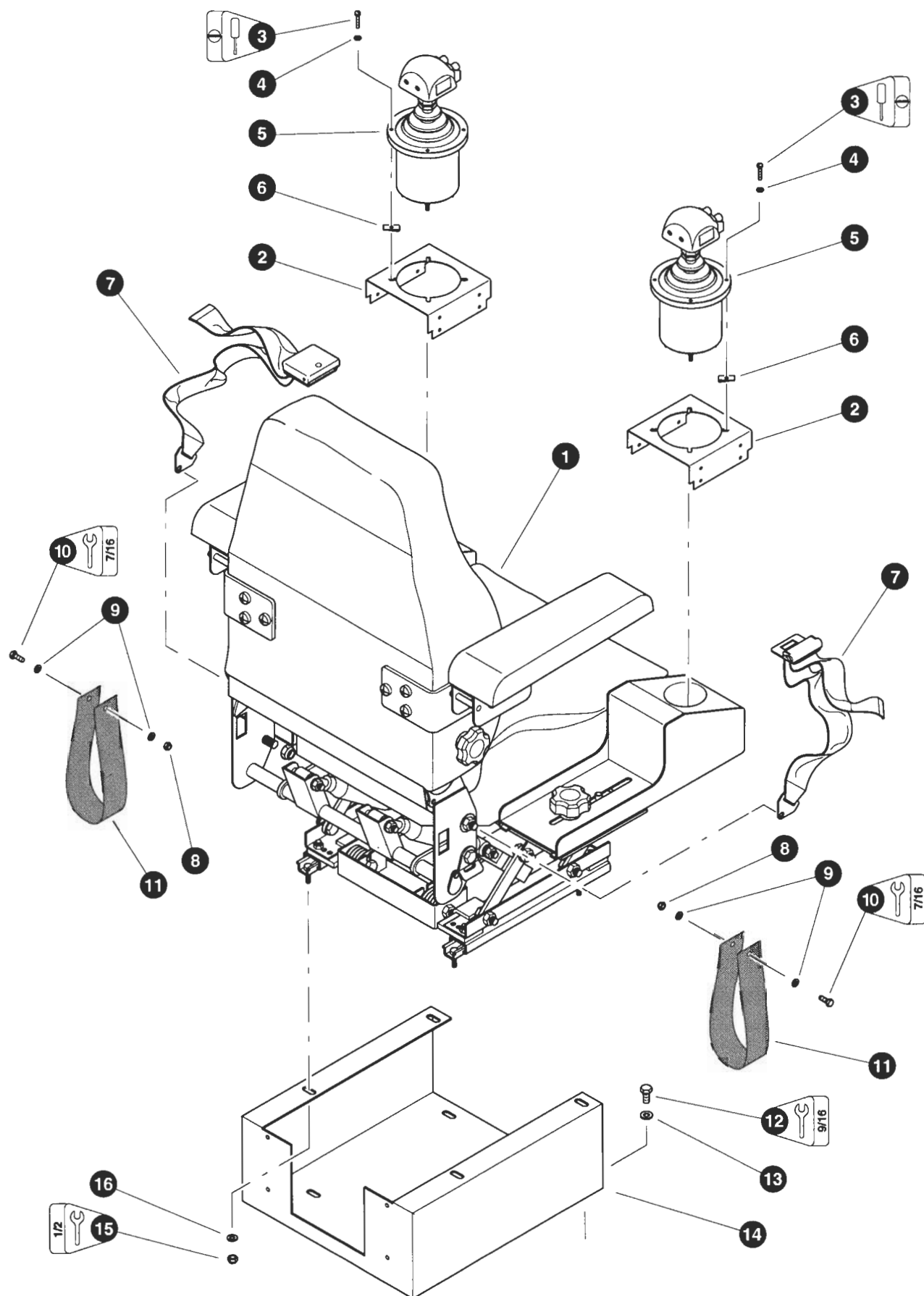


Parts 02102 03/15/2001
18.75

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.

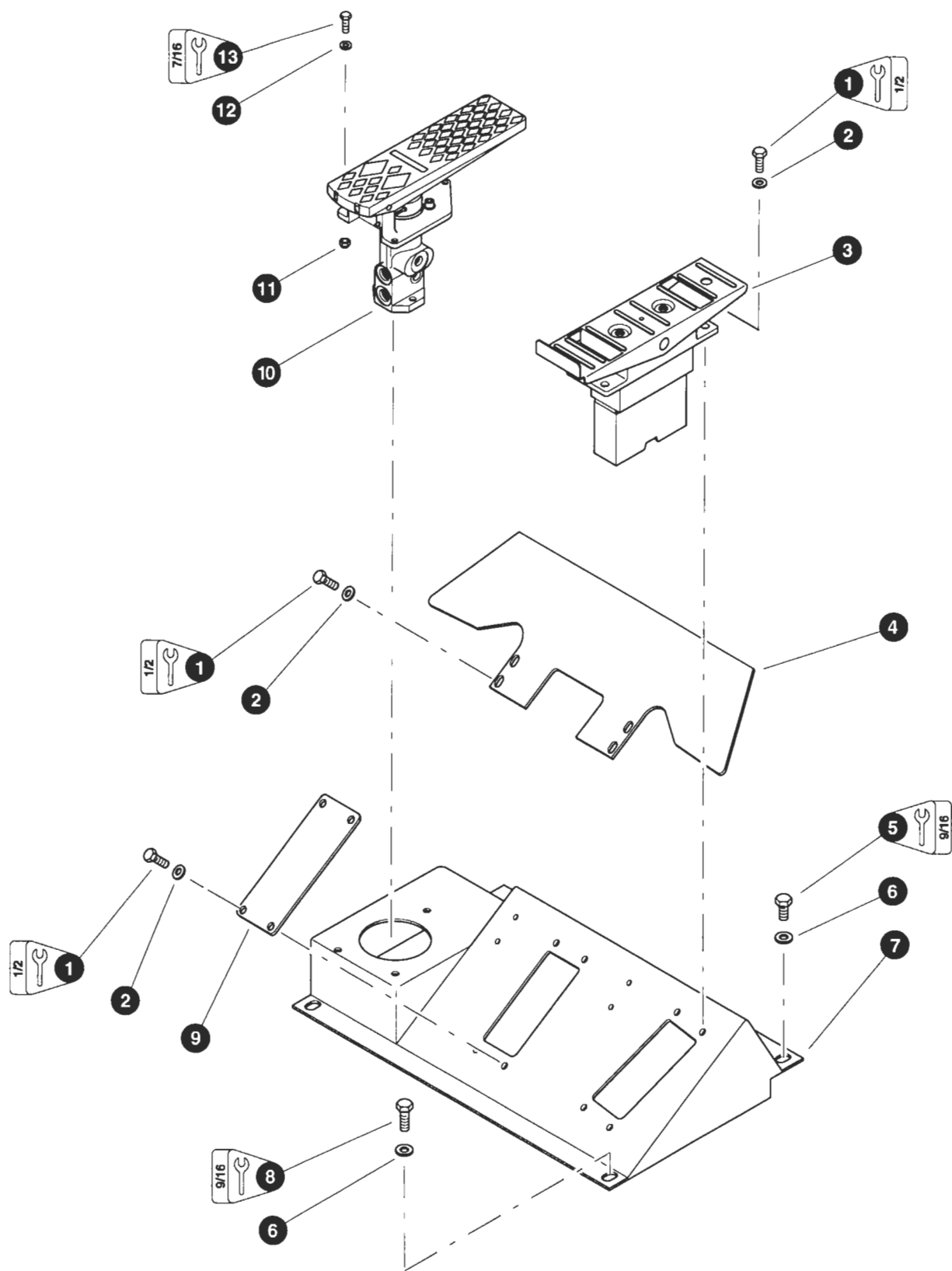


Parts 00382 12/23/97
18.75

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	16212	8		NUT, speed - #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" (Used on machines PDN# 042FWD and above)	
	11707	4		BOLT - 3/8" x 1" (Used on machines PDN# 041FWD and below)	
13	15528	4		WASHER, SAE flat - 3/8"	
14	19626	1		BRACKET, seat mounting	
15	10788	4		NUT, nylock - 5/16"	
16	15559	4		WASHER, SAE flat - 5/16"	

✓ See referenced page for component or assembly breakdown.

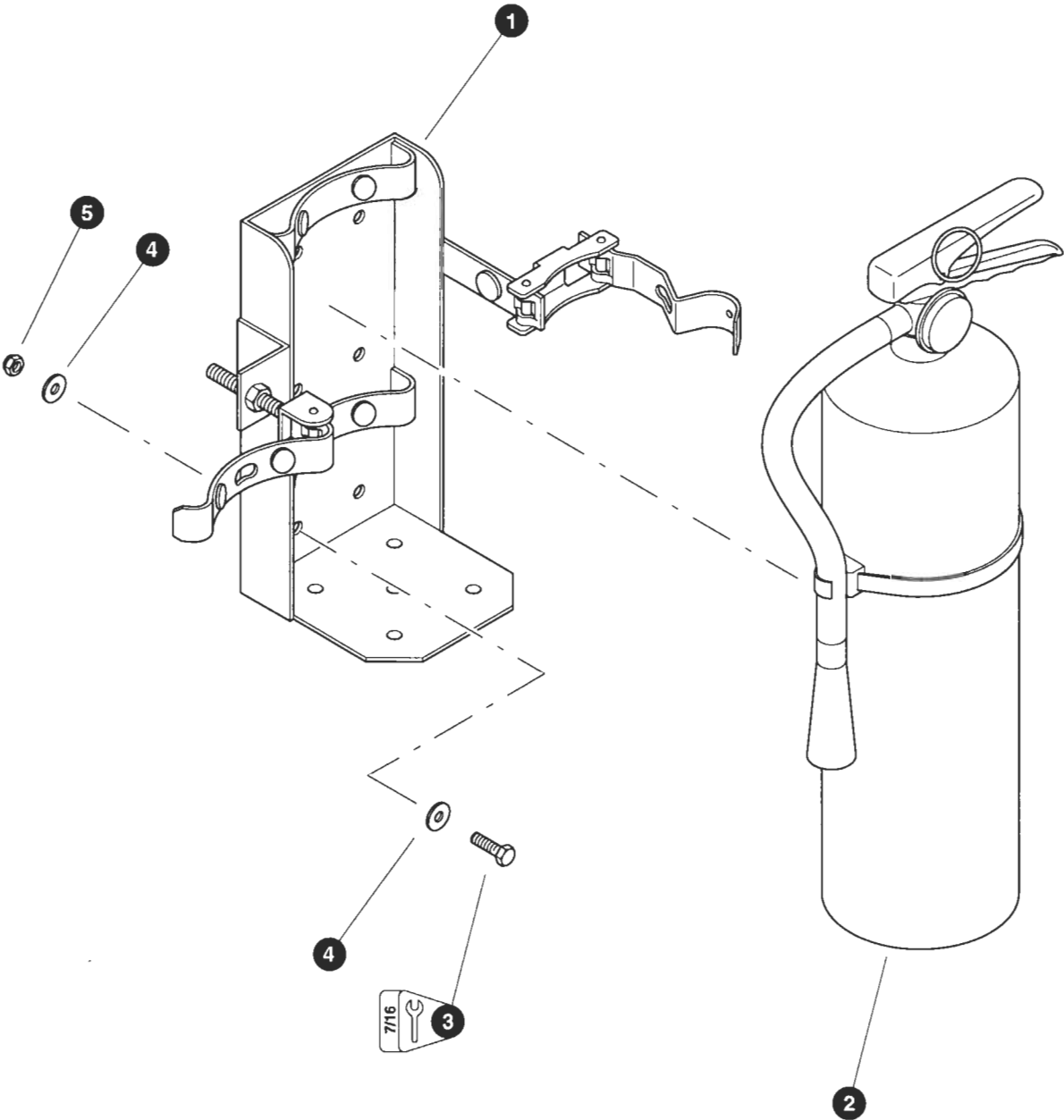


Parts 00494 04/15/98
25.00

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" (Used on machines PDN# 042FWD and above)	
	15542	2		BOLT - 3/8" x 3/4" (Used on machines PDN# 041FWD and below)	
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" (Used on machines PDN# 042FWD and above)	
	11707	2		BOLT - 3/8" x 1" (Used on machines PDN# 041FWD and below)	
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.



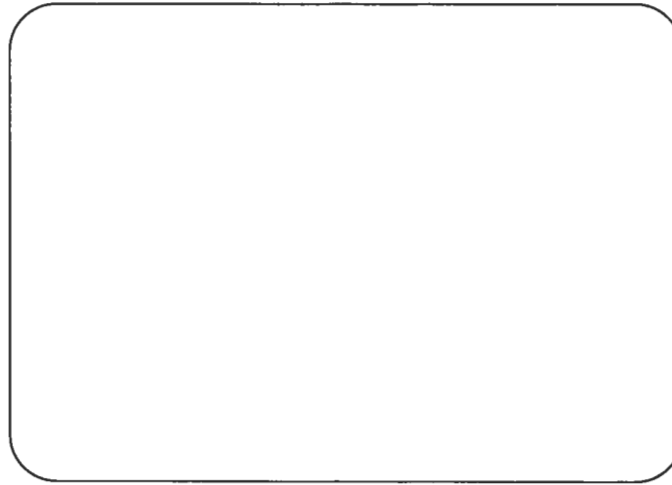
Parts 01136 10/12/2000
37.50

FIRE EXTINGUISHER INSTALLATION

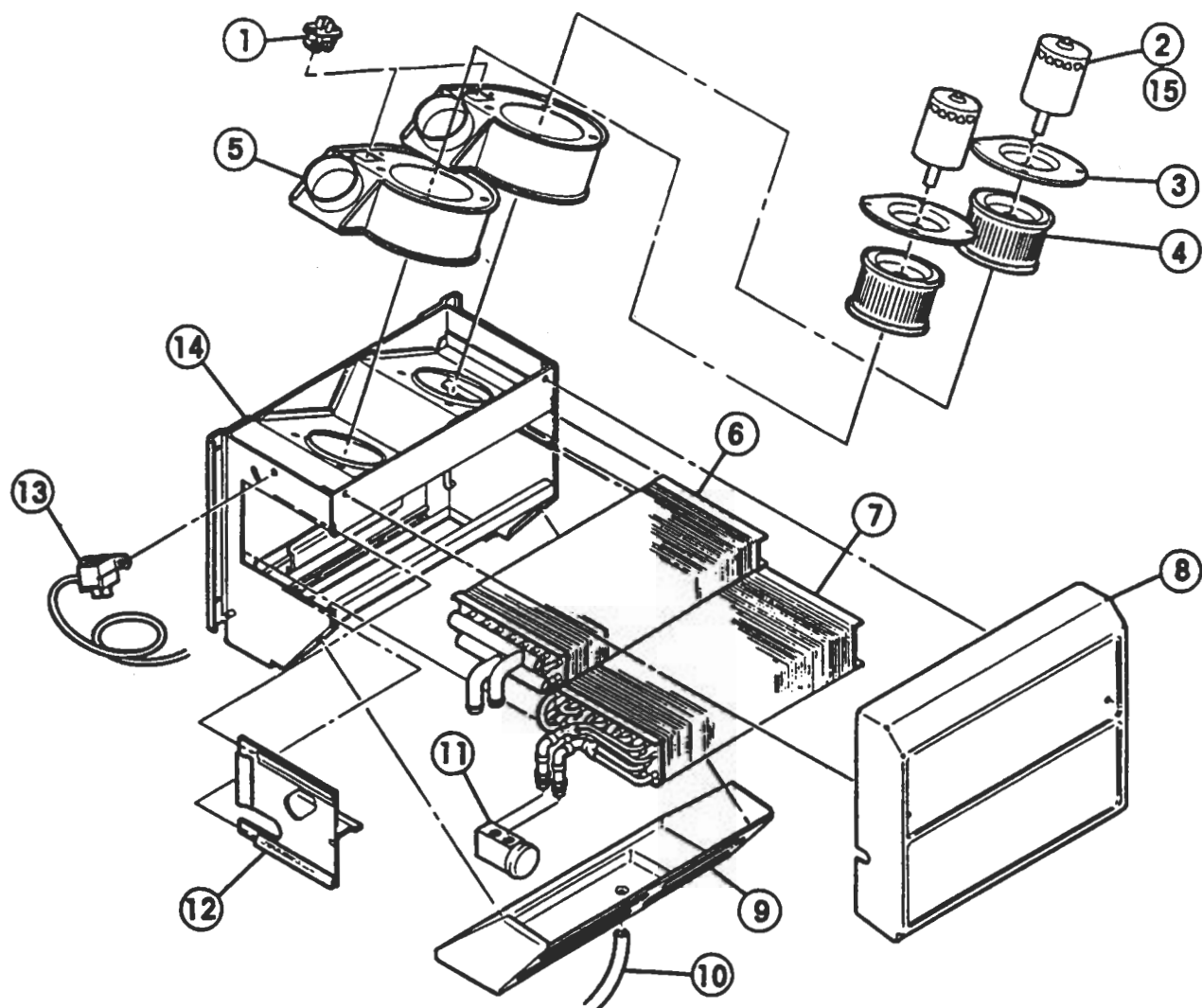
REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	16222	1	☐	FIRE EXTINGUISHER (Includes mounting bracket)	
1	NSS	1		BRACKET, fire extinguisher mounting	
2	NSS	1		EXTINGUISHER, fire	
3	15576	4		BOLT - 1/4" x 1"	
4	10800	4		WASHER, flat - 1/4"	
5	15509	4		NUT, nylock - 1/4"	

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

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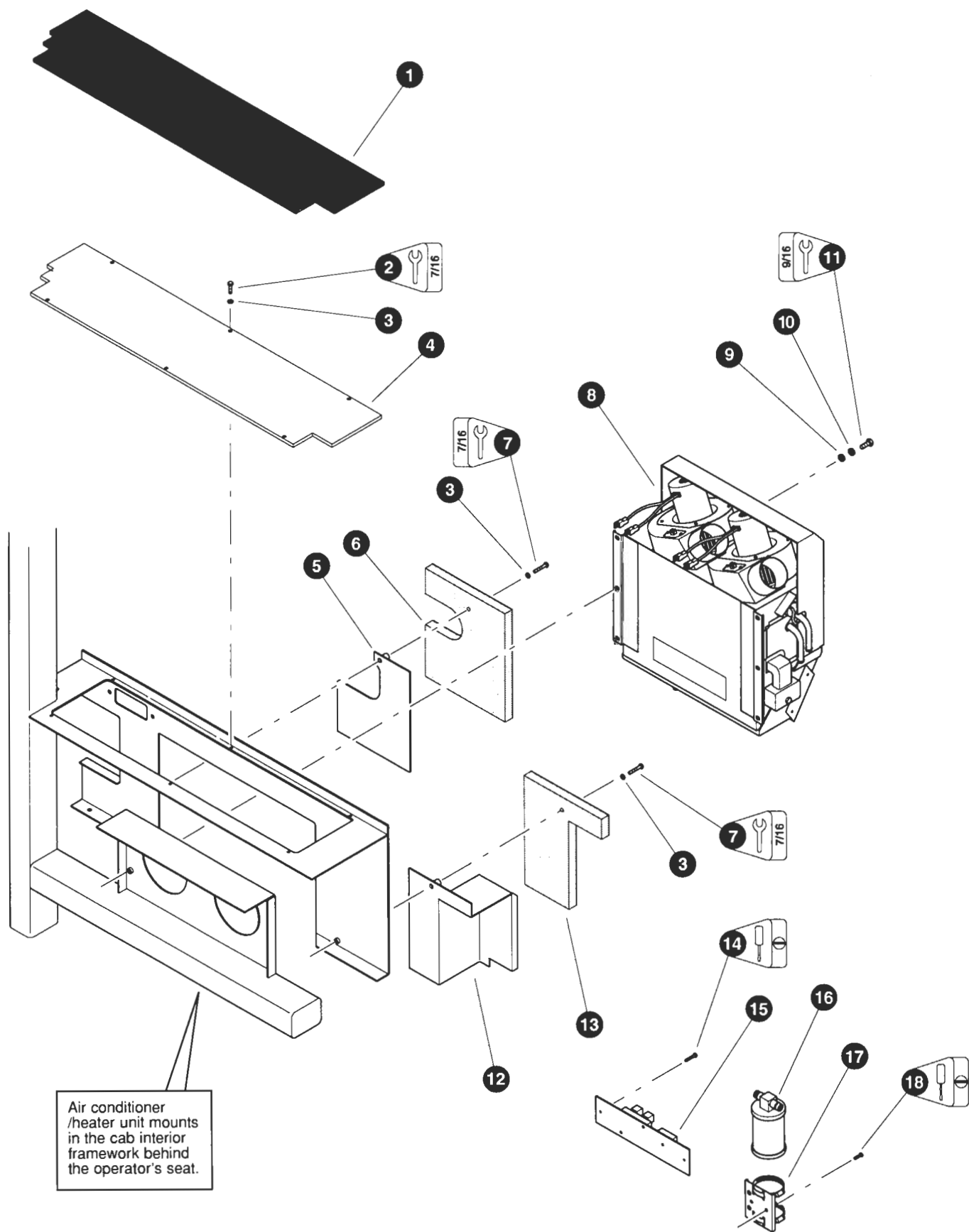
Operator's Cab - Air Conditioner / Heater Installation



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	

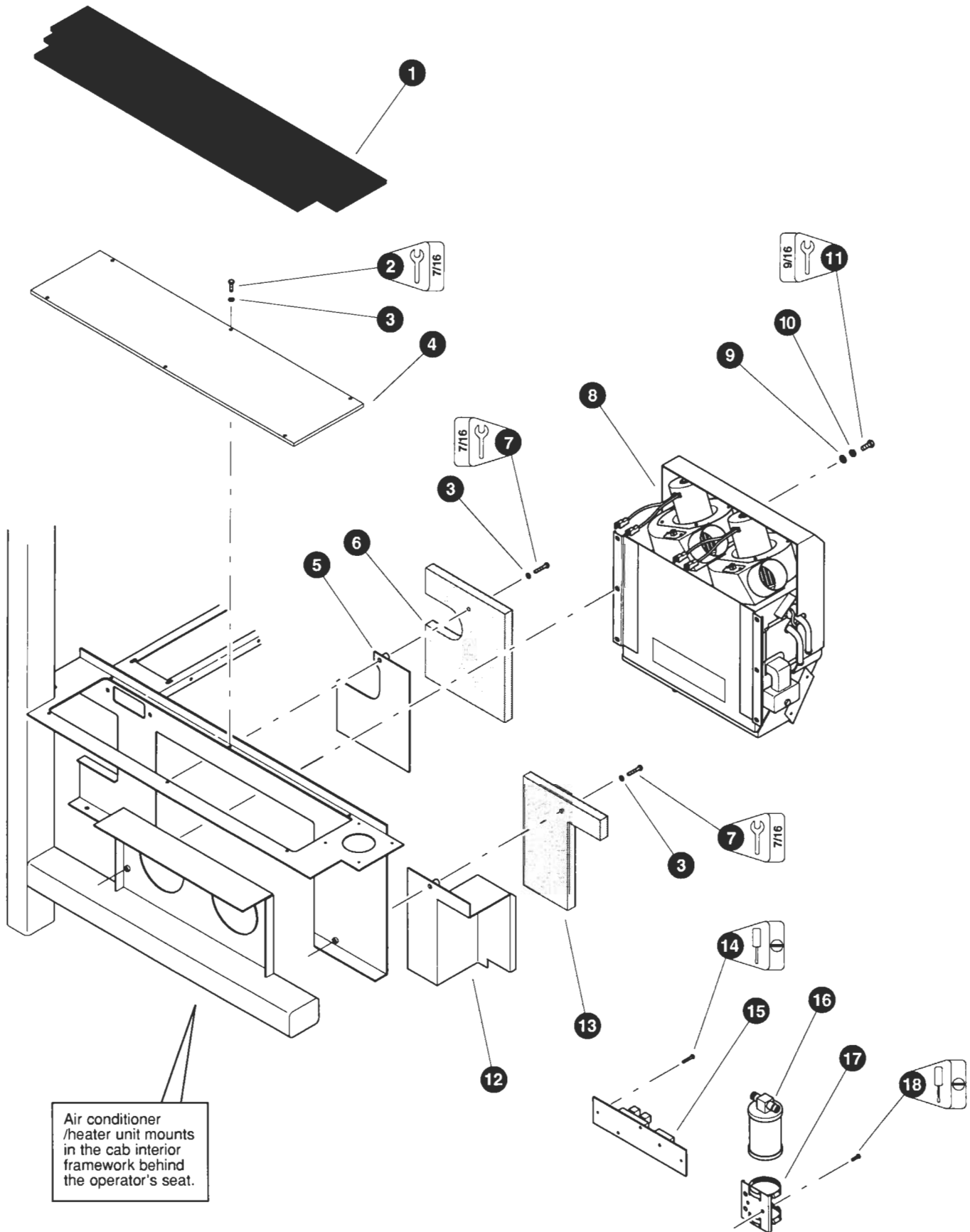
☐ Kit or Assembly - includes all items indented underneath.



AIR CONDITIONER / HEATER UNIT INSTALLATION*(Used on machines PDN# 055FWD and below)*

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	20215	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.

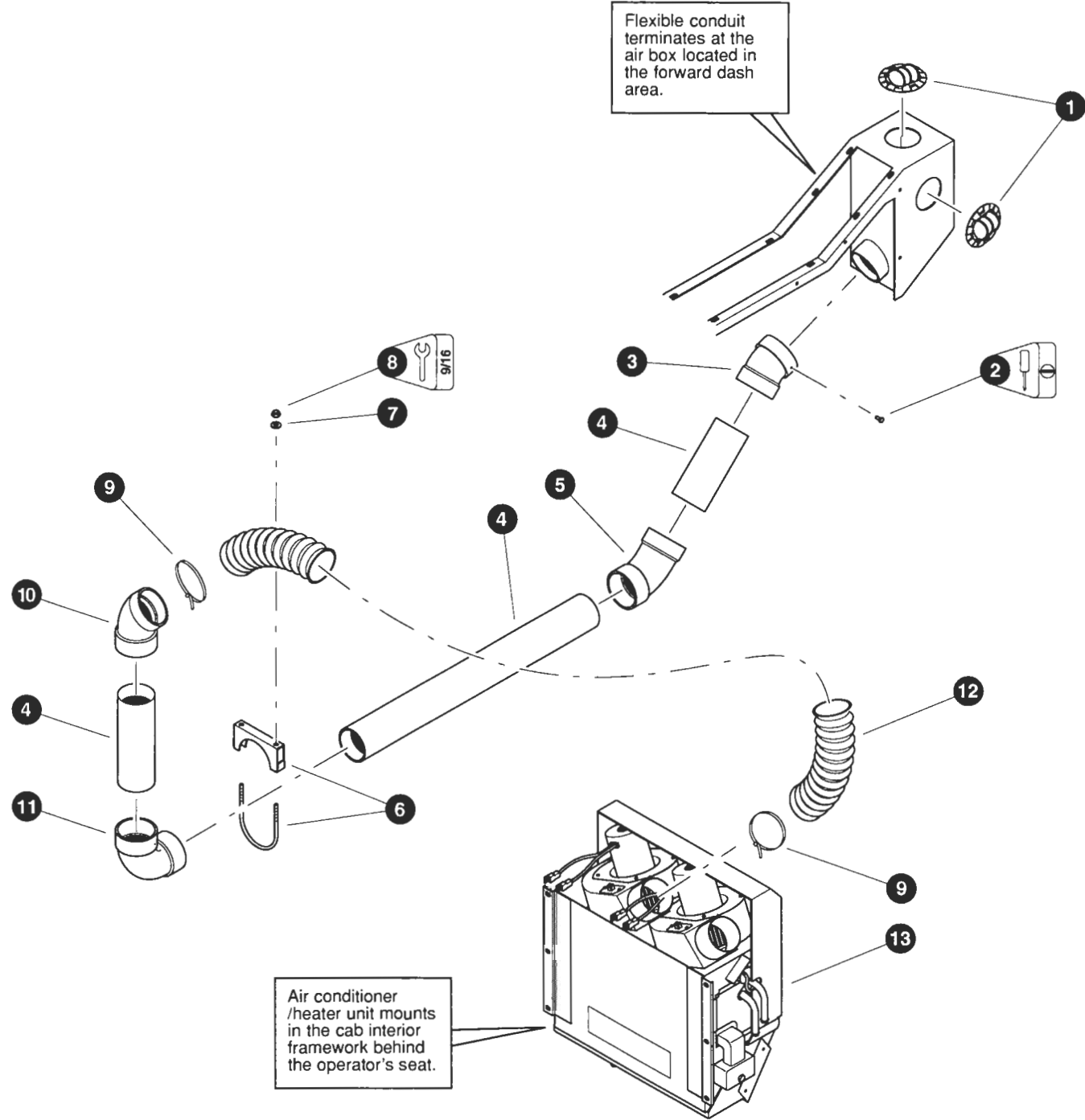


Parts 01092 03/10/99
12.50

AIR CONDITIONER / HEATER UNIT INSTALLATION*(Used on machines PDN# 056FWD and above)*

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.

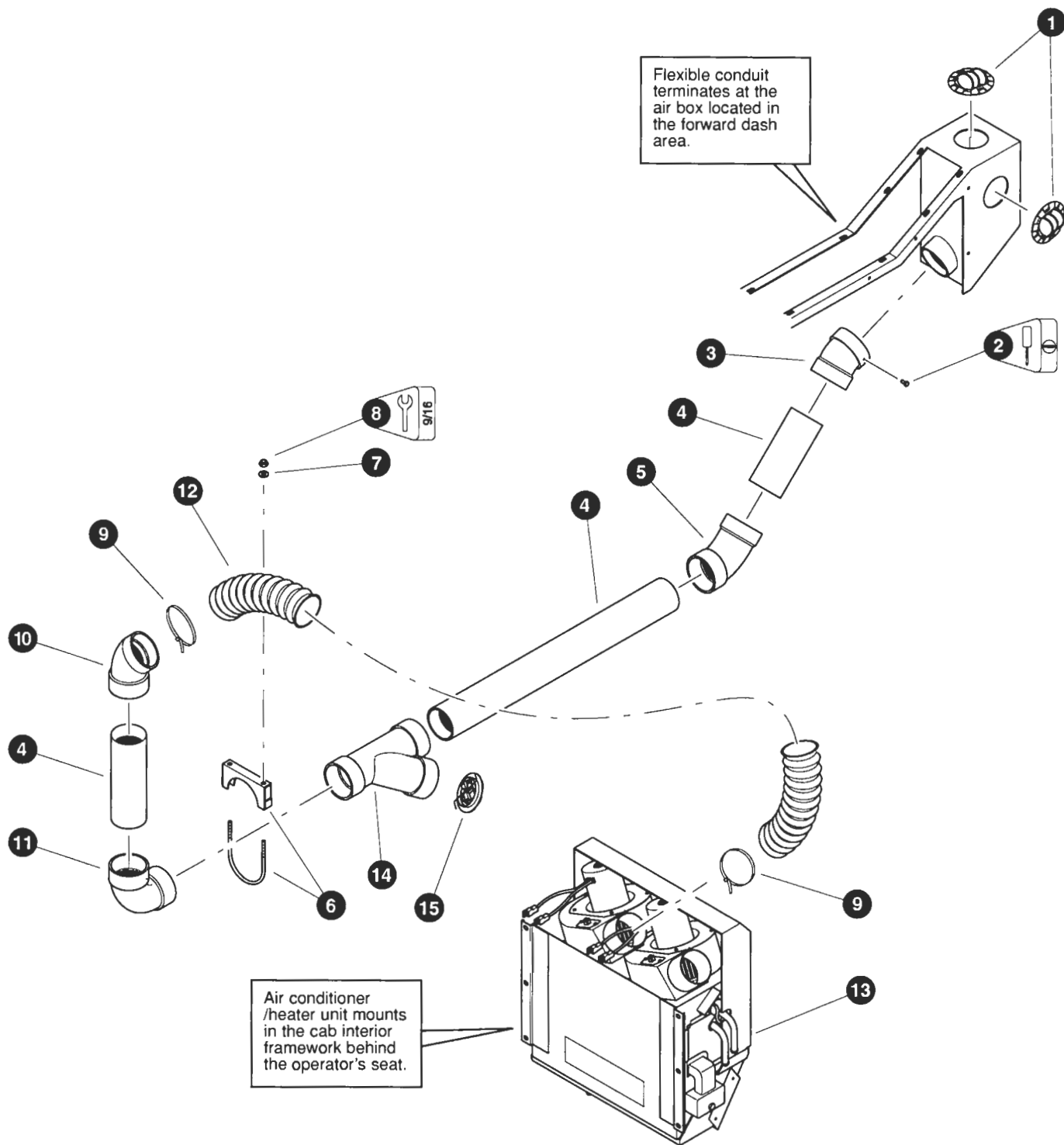


AIR CONDITIONER / HEATER DUCT INSTALLATION (Under Dash Area)

(Used on machines PDN# 055FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20877	2		VENT, adjustable air - dash	
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.5.2

- ⌘ 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.

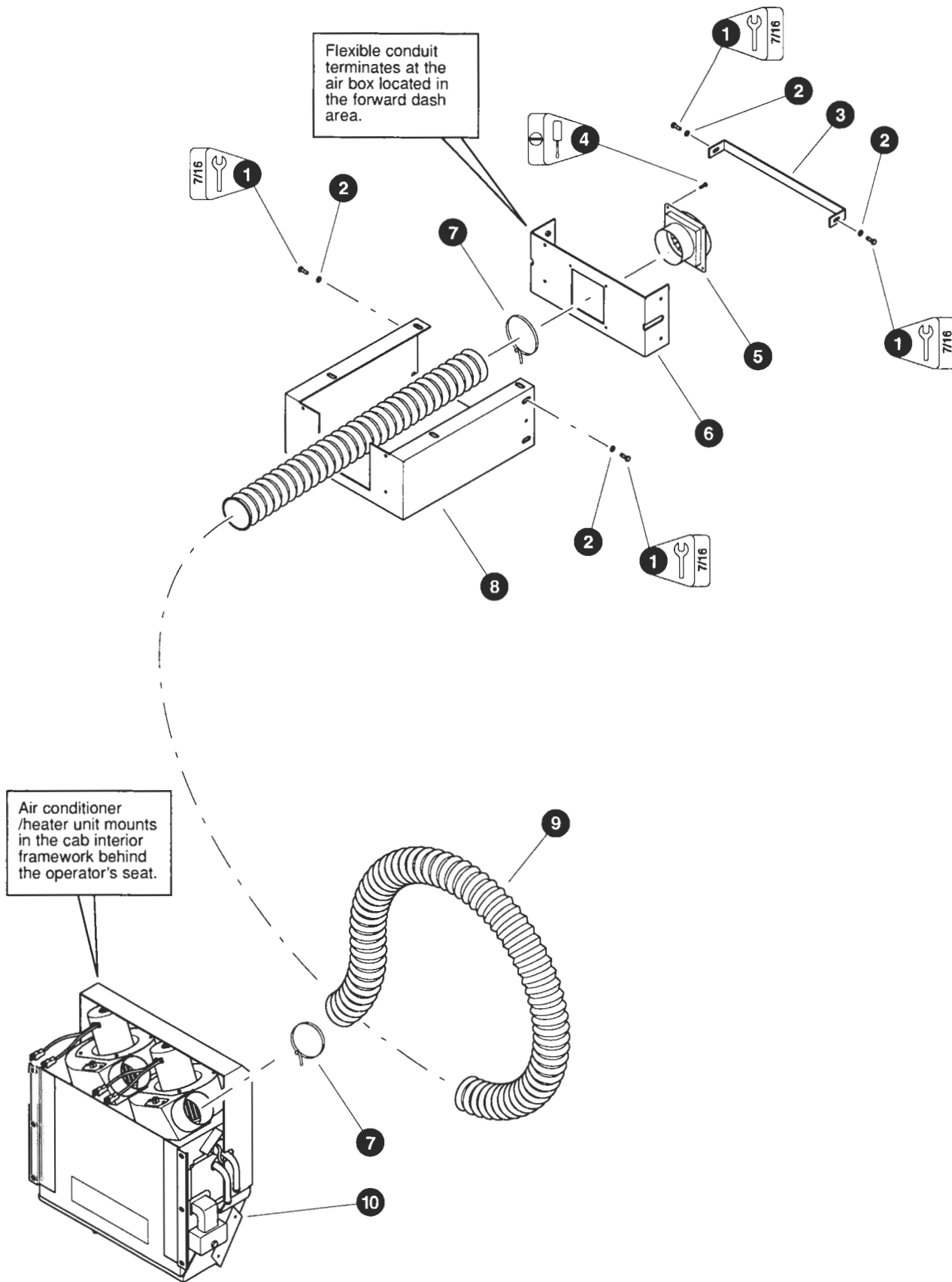


AIR CONDITIONER / HEATER DUCT INSTALLATION (Under Dash Area)

(Used on machines PDN# 056FWD and above)

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.



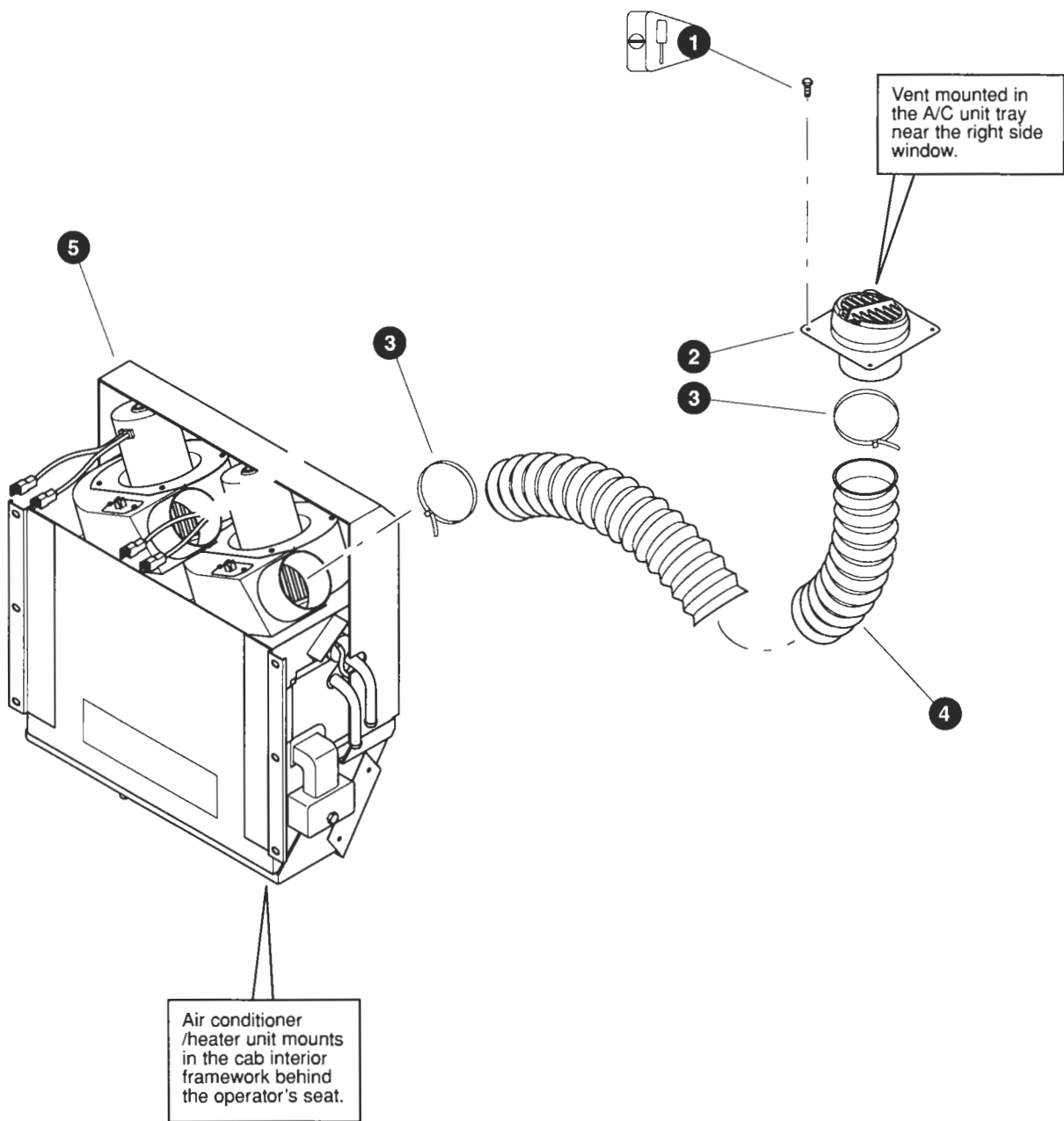
AIR CONDITIONER / HEATER DUCT INSTALLATION (Under Seat Area)

(Used on machines PDN# 055FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15604	6		BOLT - 1/4" x 3/4"	
2	10757	6		WASHER, SAE flat - 1/4"	
3	20743	1		BRACKET, air vent guard	
4	17254	4		SCREW, self-tapping - #10-24 x 1/2"	
5	20878	1		VENT, adjustable air - floor	
6	20744	1		BRACKET, air vent guard adapter	
7	16290	1		STRAP, tie	
8	REF.	1		SEAT MOUNTING BRACKET	G.3.10
9	20884	AR	⌘	HOSE, flexible - 3-1/2"	
10	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.



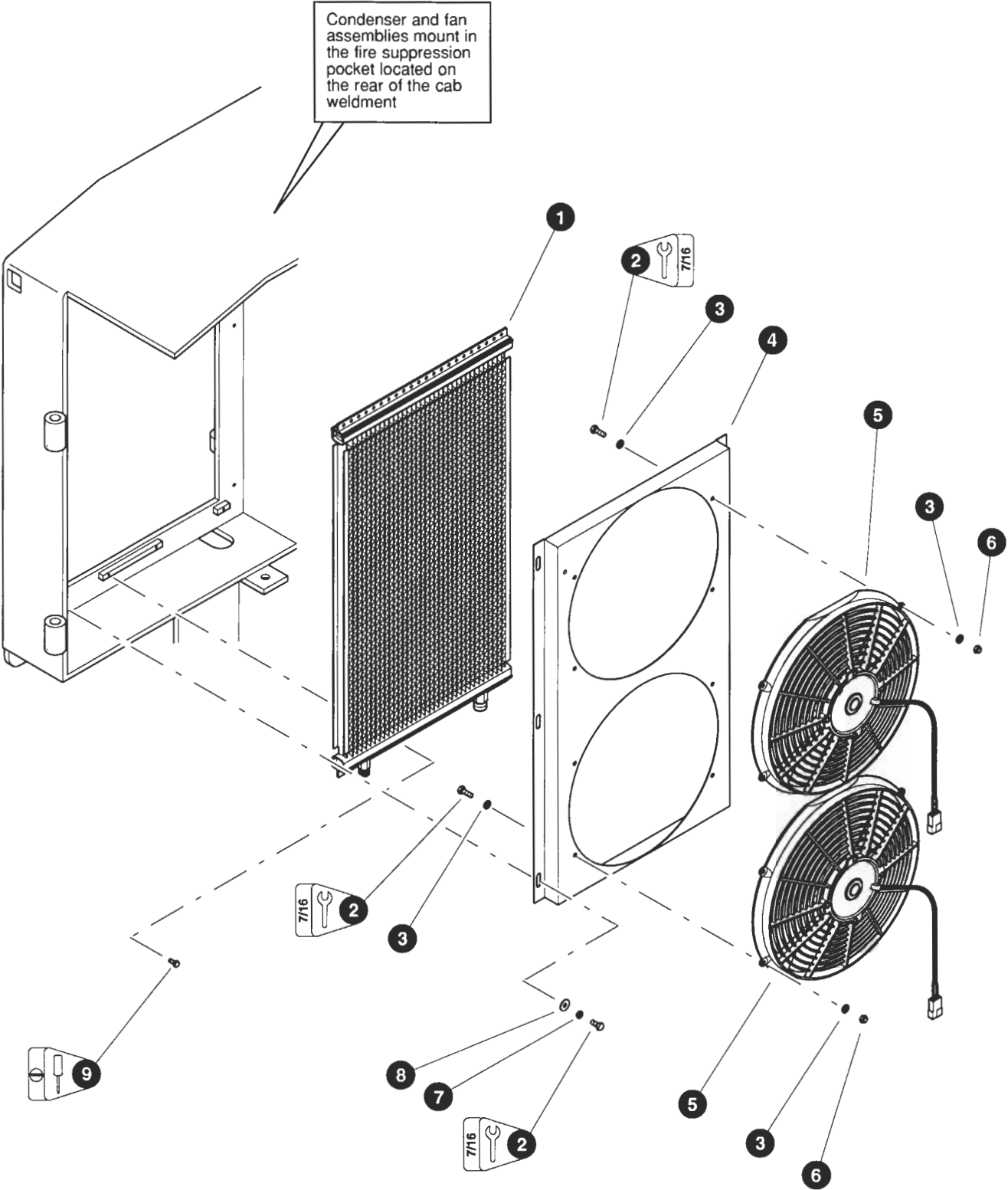
AIR CONDITIONER / HEATER DUCT INSTALLATION (Right Side Window)

(Used on machines PDN# 056FWD and above)

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.



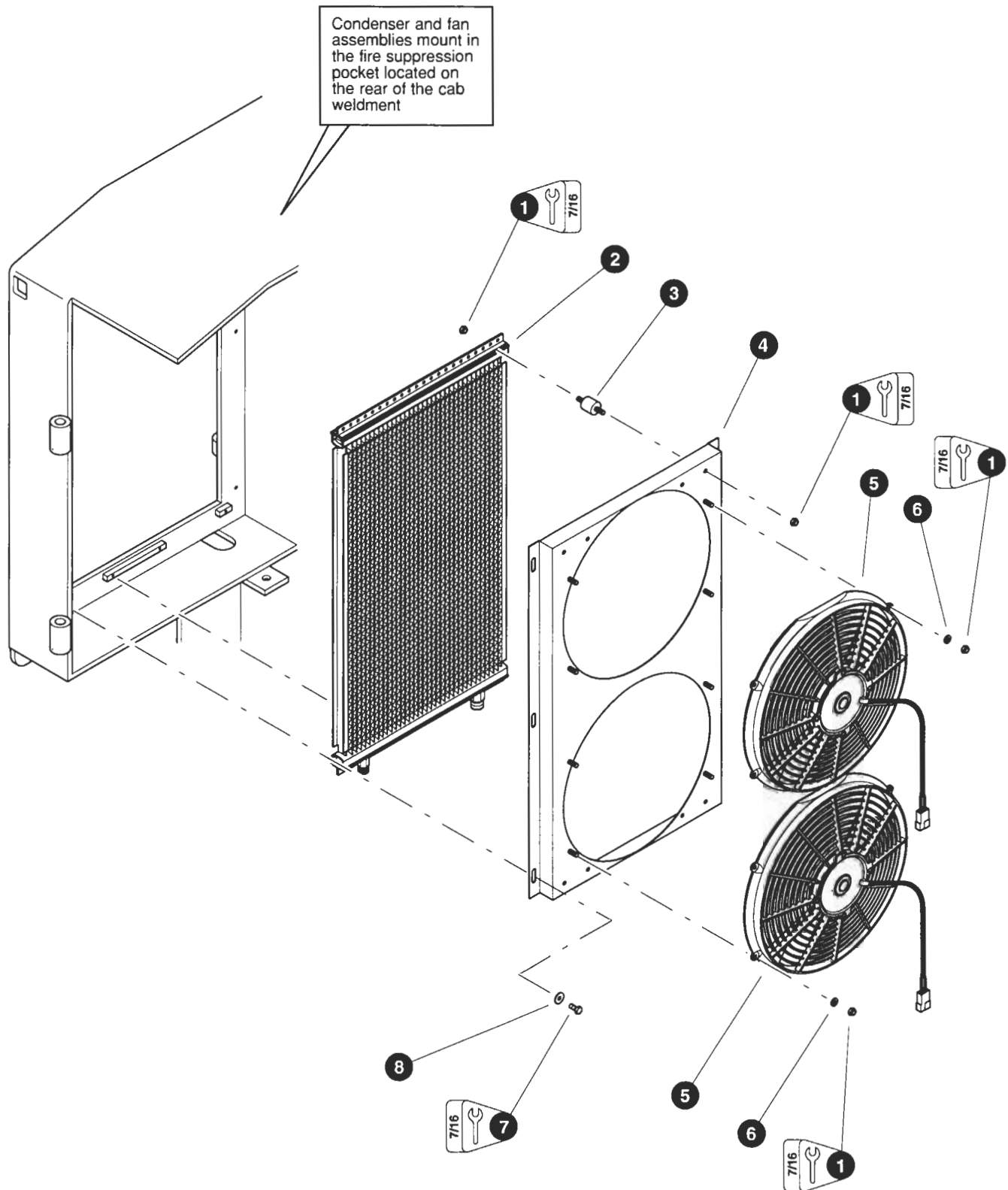
Parts 00550 04/08/98
25.00

AIR CONDITIONER COMPONENT INSTALLATION

(Condenser Mounted To Fire Suppression Pocket)

(Used on machines PDN# 072FWD and below)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	20874	1	CONDENSER, air conditioner	
2	15604	14	BOLT - 1/4" x 3/4"	
3	10757	16	WASHER, SAE flat - 1/4"	
4	20875	1	PANEL, A/C fan mounting	
5	20876	2	MOTOR / FAN ASSEMBLY	
6	15509	8	NUT, nylock - 1/4"	
7	10756	6	WASHER, lock - 1/4"	
8	10800	6	WASHER, flat - 1/4"	
9	17255	8	SCREW, self-tapping - #10-24 x 3/4"	

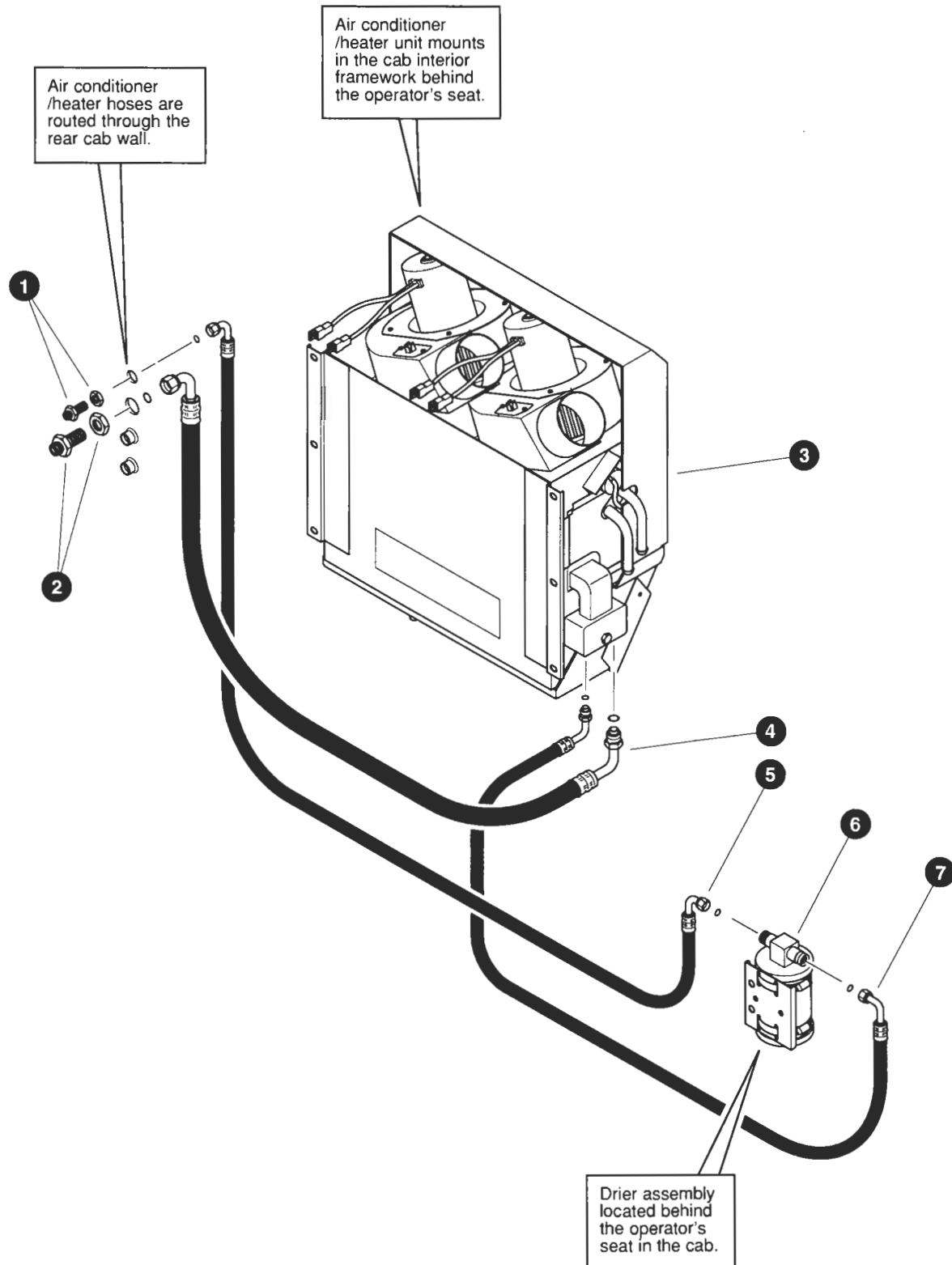


AIR CONDITIONER COMPONENT INSTALLATION

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

(Used on machines PDN# 073FWD and above)

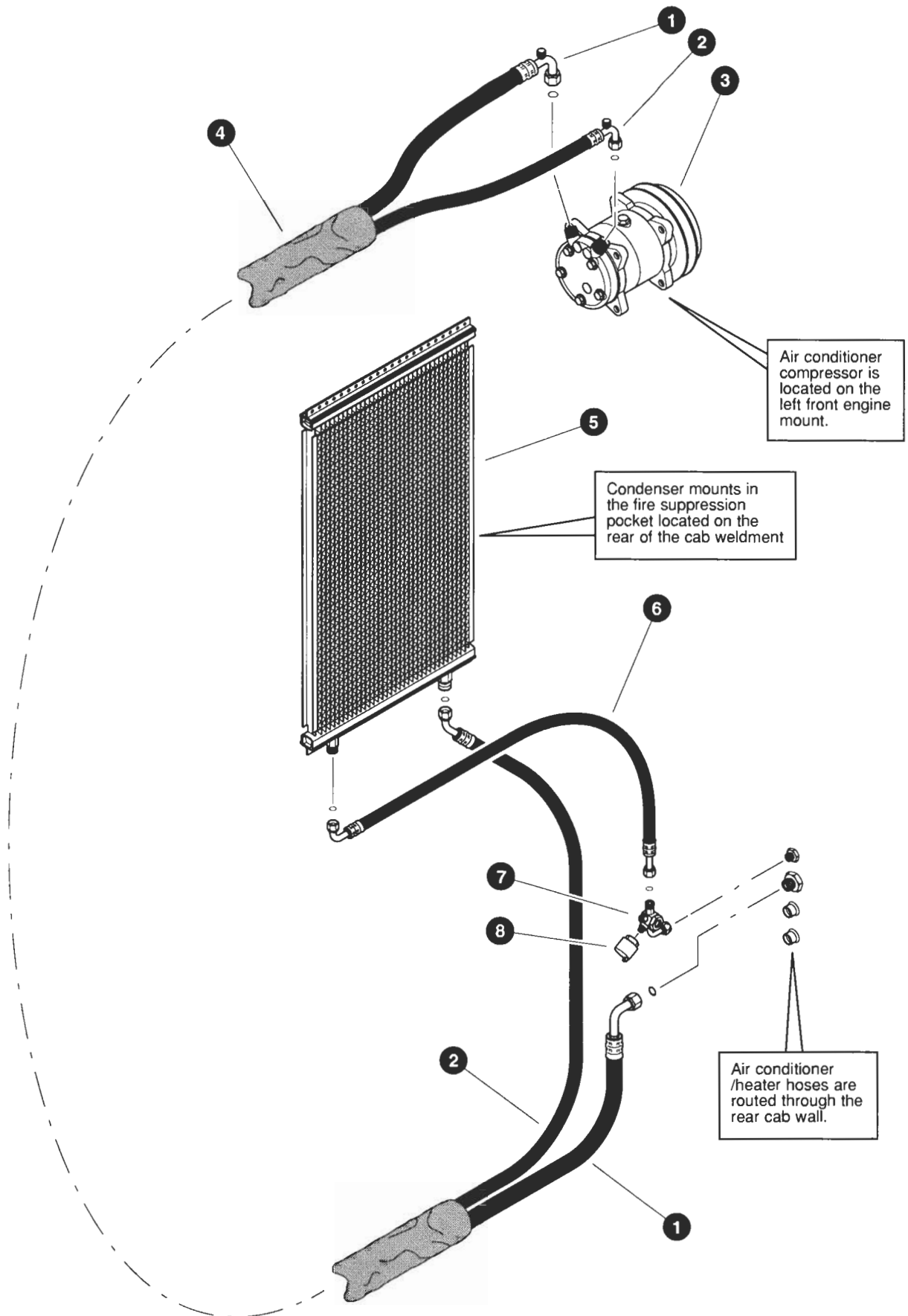
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	10811	16	NUT, lock - 1/4"	
2	20874	1	CONDENSER, air conditioner	
3	22015	4	ISOLATOR, sandwich mount - A/C condenser	
4	20875	1	PANEL, A/C fan mounting	
5	20876	2	MOTOR / FAN ASSEMBLY	
6	10757	8	WASHER, SAE flat - 1/4"	
7	15604	6	BOLT - 1/4" x 3/4"	
8	10756	6	WASHER, lock - 1/4"	
9	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.



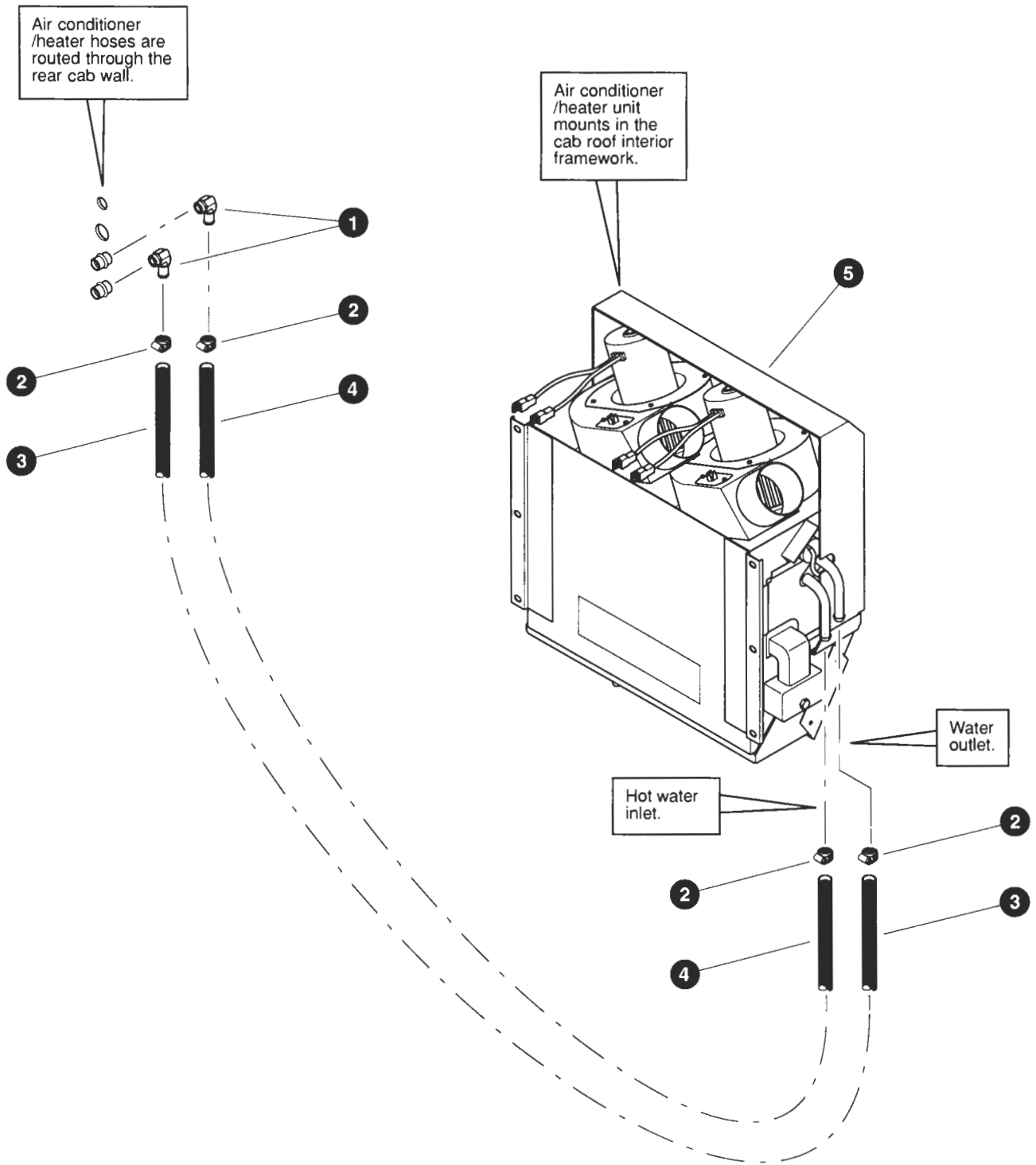
Parts 00555 03/22/99
18.75

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.

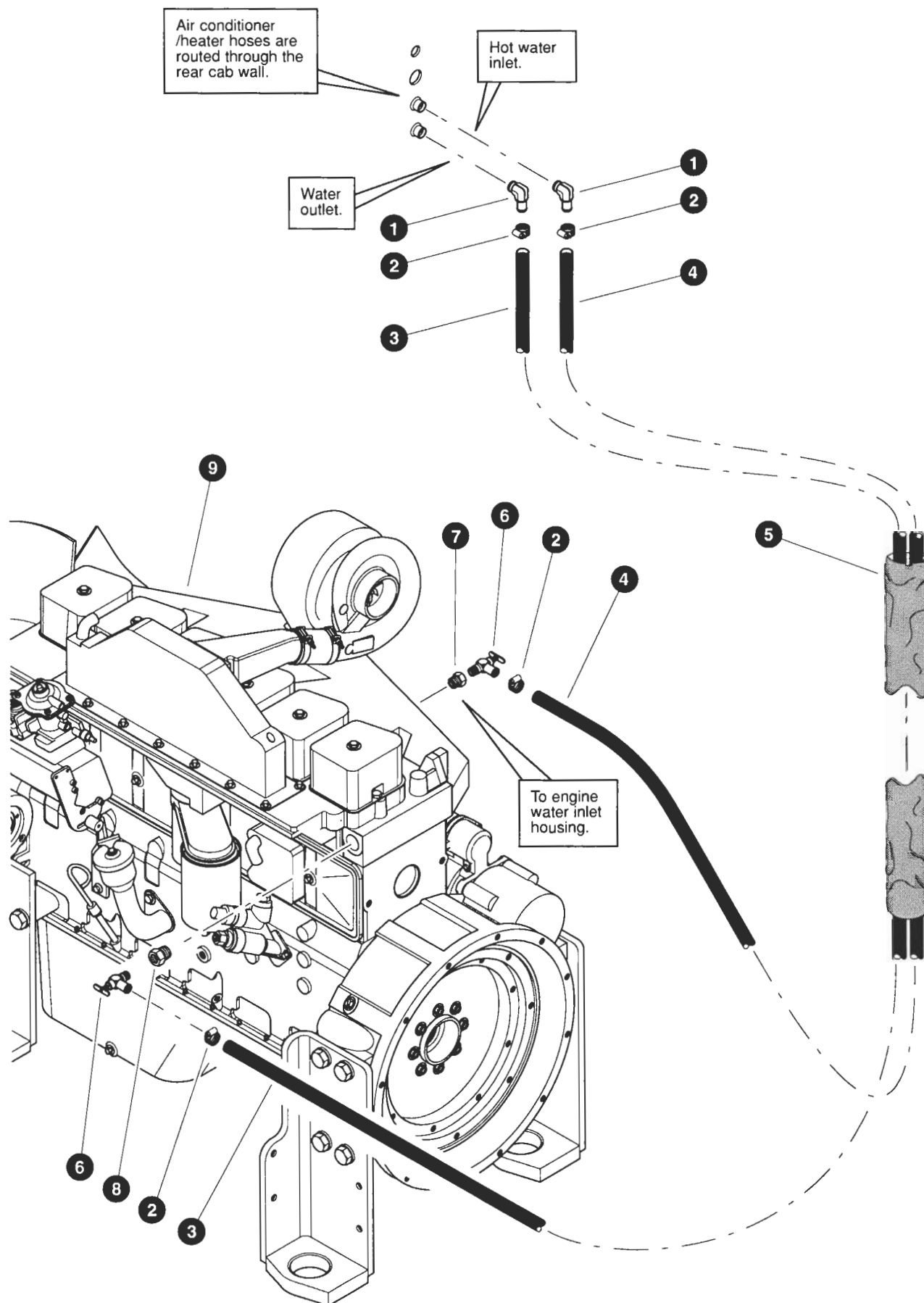


HEATER LINES (Cab Interior)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20903	2		ELBOW, 90° brass	
2	15629	4		CLAMP, hose - worm style - 1-1/2"	
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

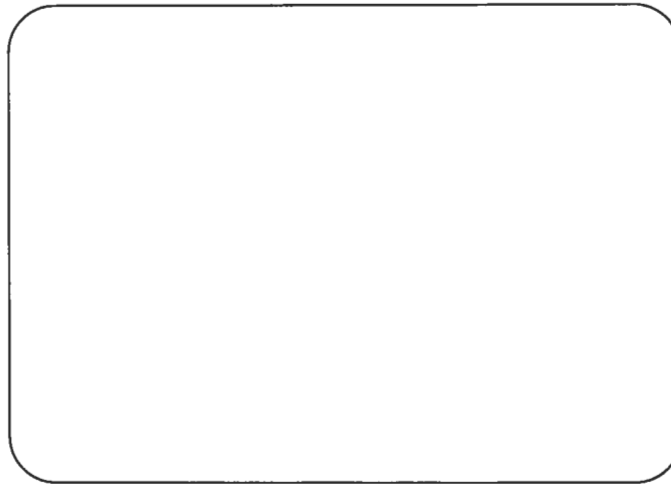
HEATER LINES (Cab Exterior)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20903	2		ELBOW, 90° brass	
2	15629	4		CLAMP, hose - worm style - 1-1/2"	
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

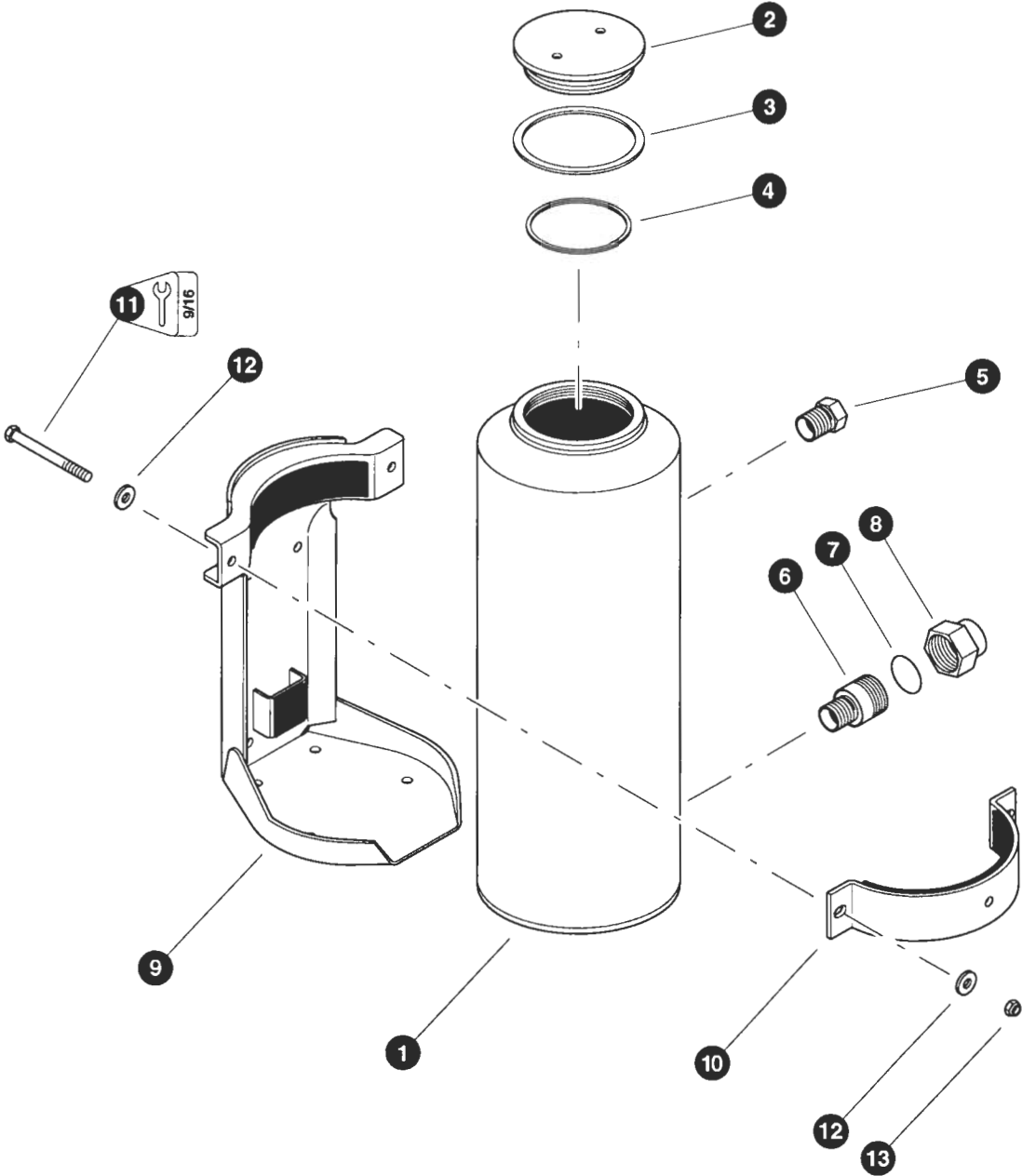
⌘ Bulk material - order length required in feet or meters.

✓ See referenced page for component or assembly breakdown.

Section G.5



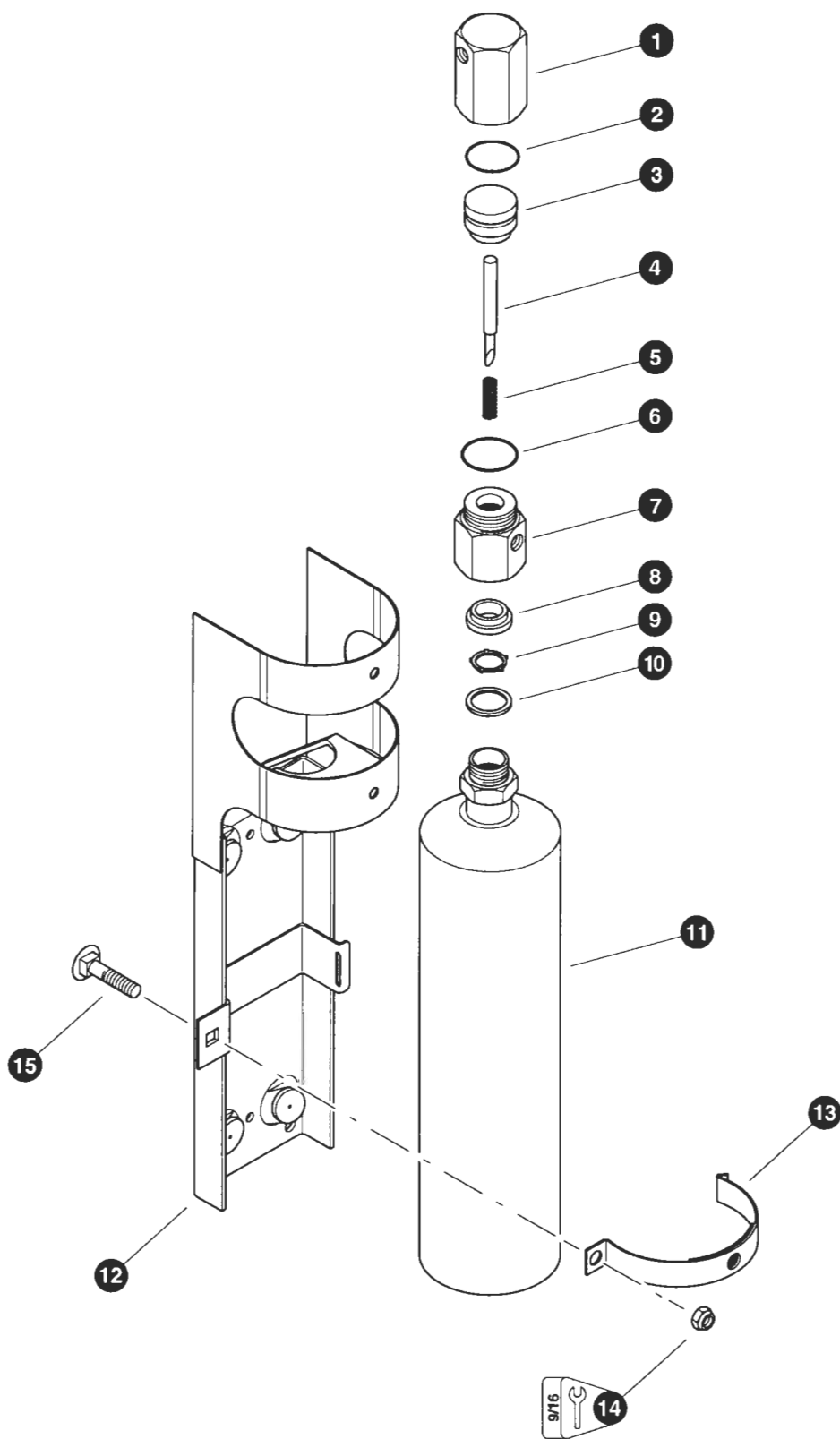
Operator's Cab - Optional Fire Suppression System



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.

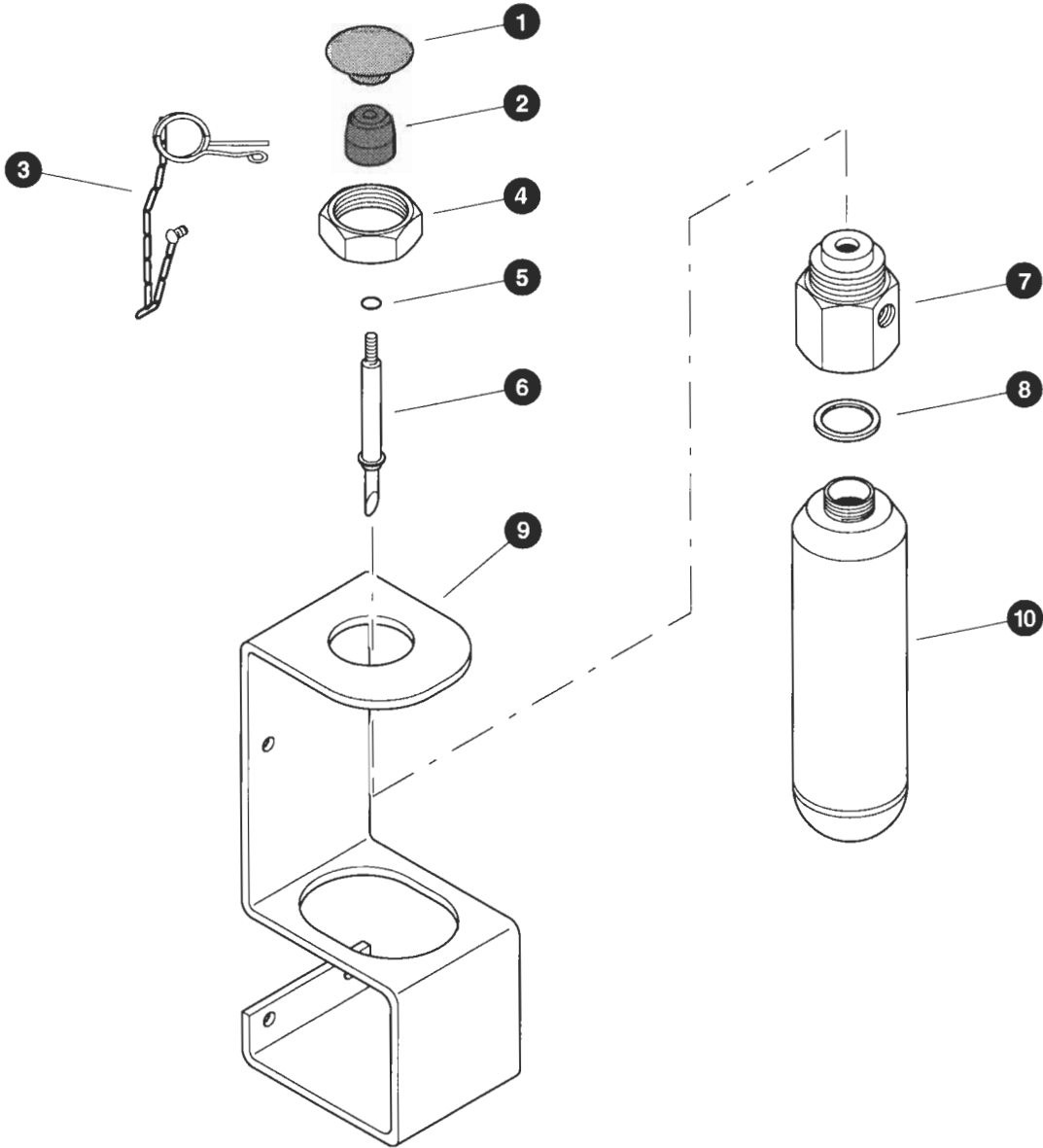


Parts 00596 10/17/2000
37.50

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 (Includes shipping cap)	
--	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"	

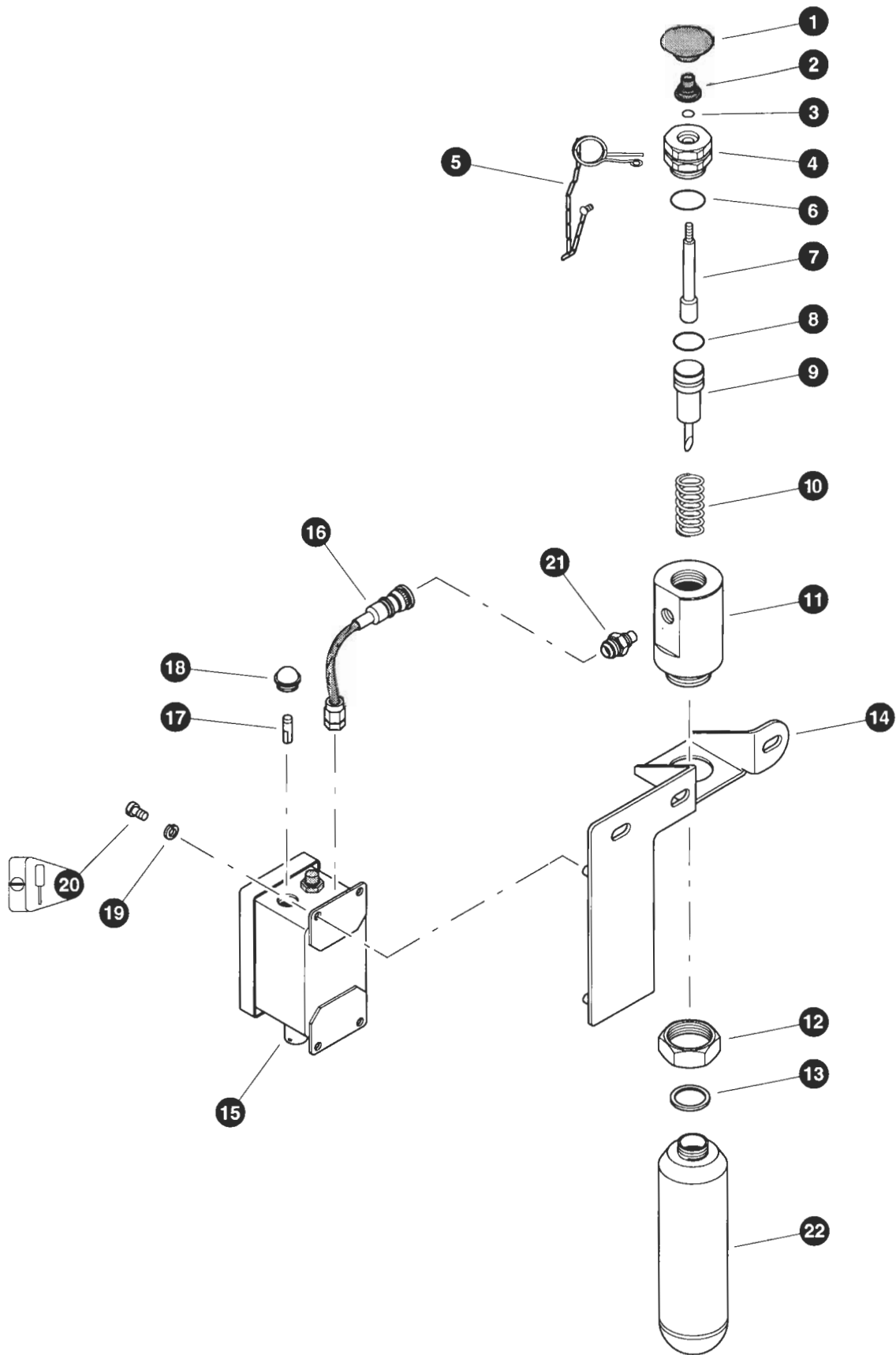
☐ Kit or Assembly - includes all items indented underneath



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 (Not shown)	
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 (Includes shipping cap)	

☐ Kit or Assembly - includes all items indented underneath.

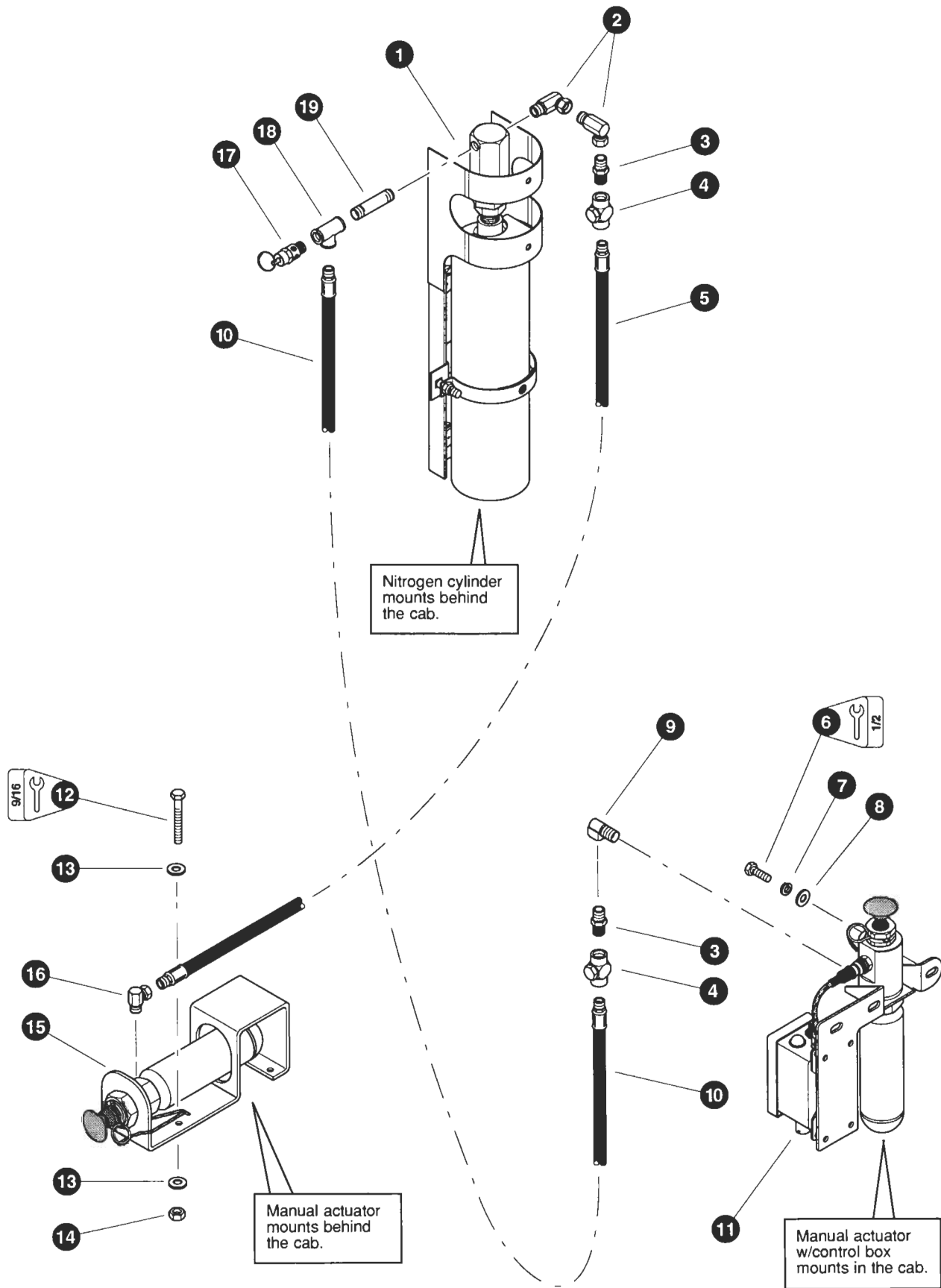


Parts 00819 10/18/2000
37.50

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 (Not shown)	
6	21280	1		O-RING, adapter 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 (Includes shipping cap)	
Items Not Shown:					
--	21297	1	☐	HARNESS, battery (Connects power wire from control box to the battery. Contains fuse holder)	
--	21298	1		FUSE - 5 AMP	
--	21296	1		WIRE, power - 10' (provides power to the control box)	
--	16514	1		WIRE, detection (Routed from the control box throughout the engine and pump compartments)	

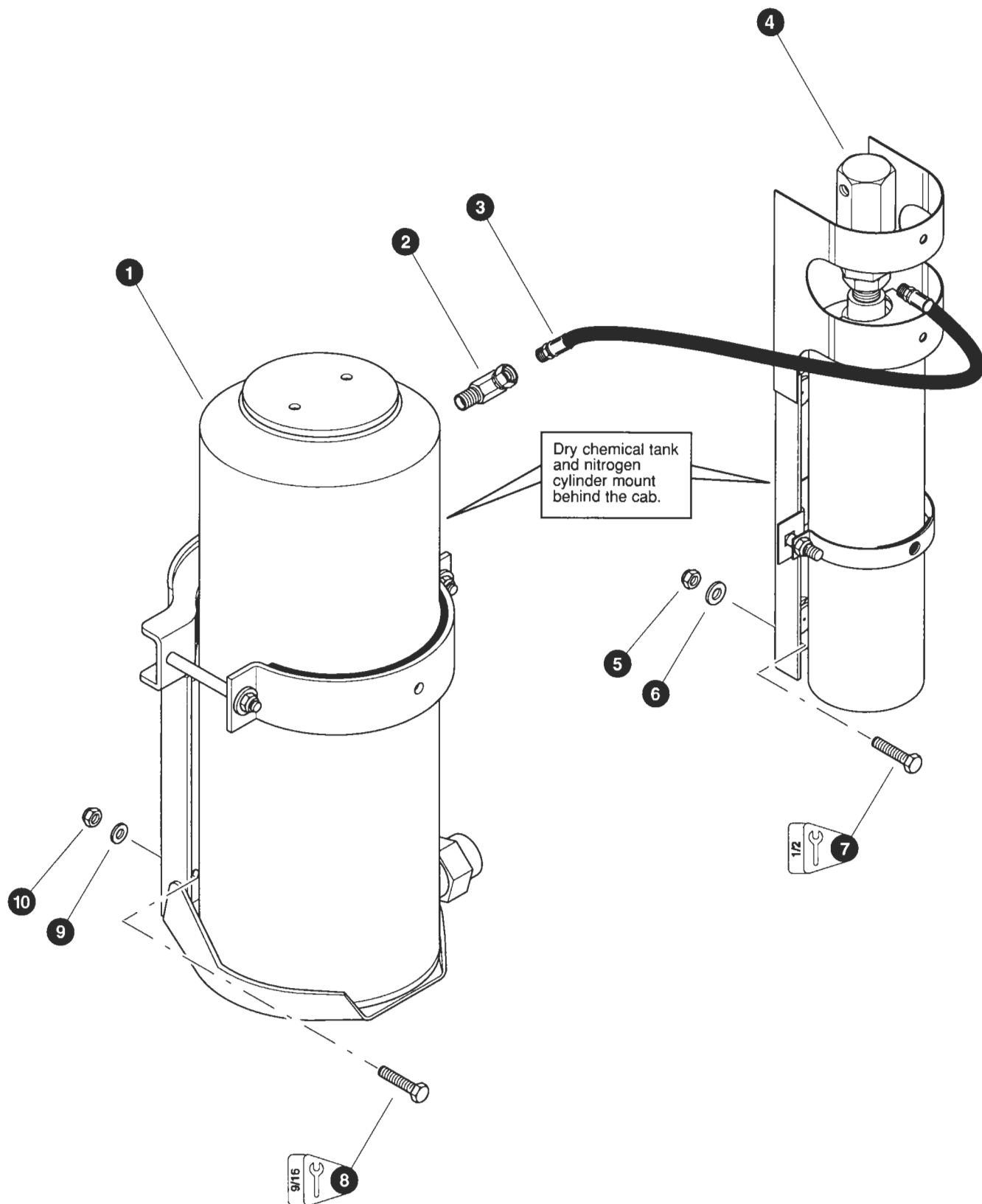
☐ Kit or Assembly - includes all items indented underneath.



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 (Exterior manual actuator to nitrogen cylinder)	
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 (Brass)	
10	16750	1		HOSE ASSEMBLY - 2102-04-04PS-04PS (Interior manual actuator to nitrogen cylinder)	
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"	

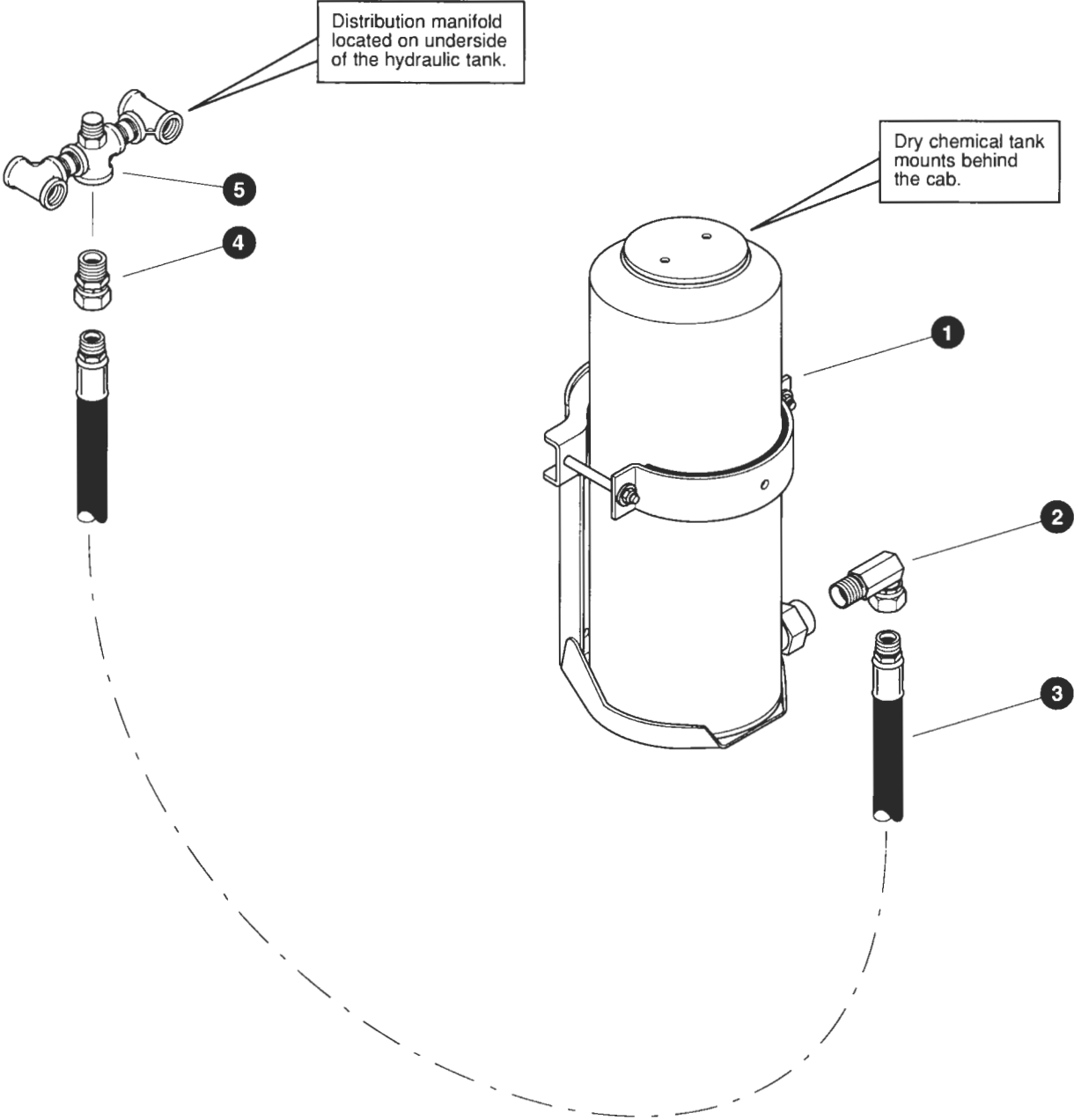
✓ See reference page for component or assembly breakdown.



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 (Nitrogen cylinder to dry chemical tank)	
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.

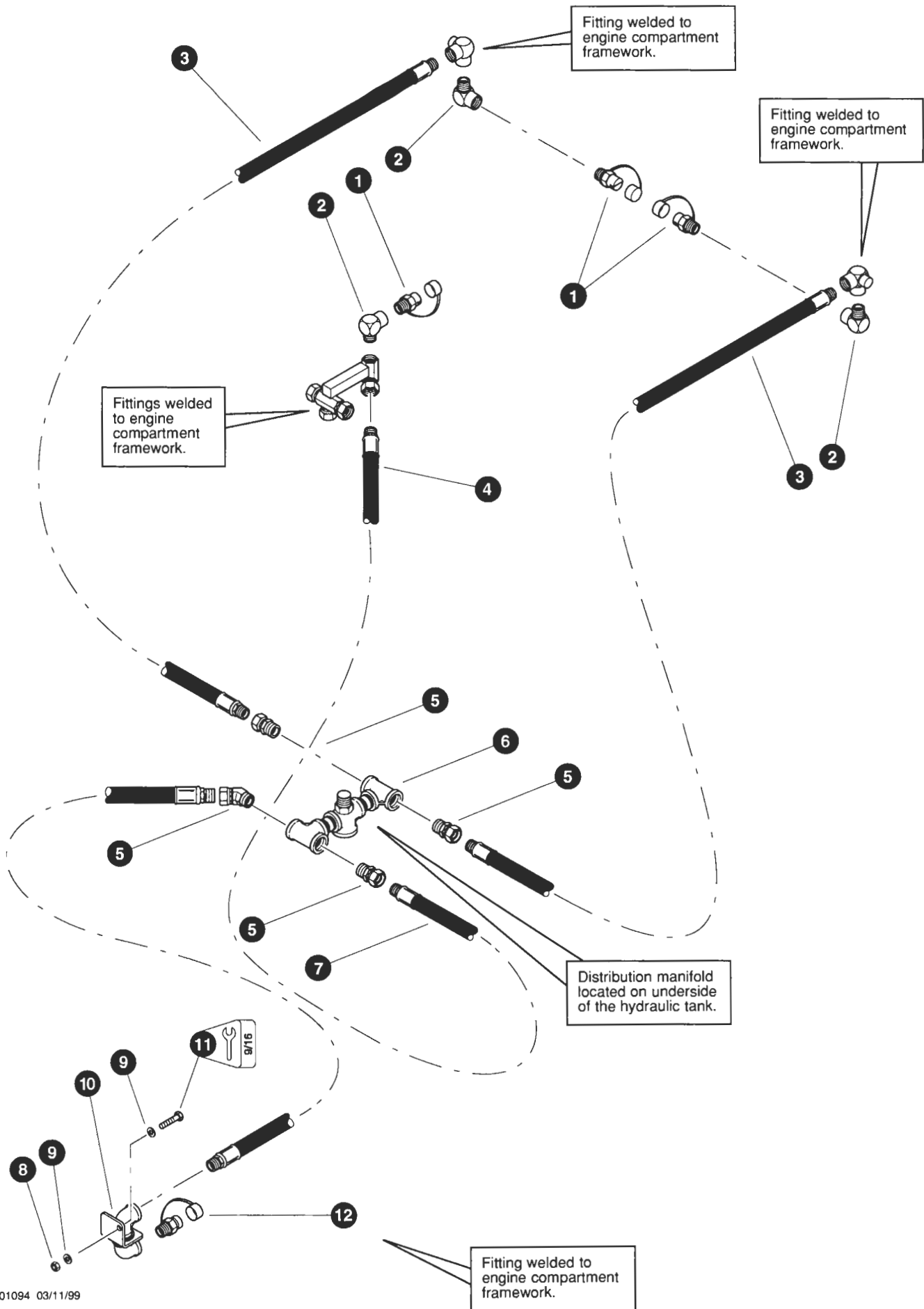


FIRE SUPPRESSION LINES

(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 (Dry chemical tank to distribution tee)	
4	11304			CONNECTOR, straight swivel - 1404-12-12	
5	18768	1		MANIFOLD, fire distribution assembly	

✓ See reference page for component or assembly breakdown.



Parts 01094 03/11/99
18.75

FIRE SUPPRESSION LINES

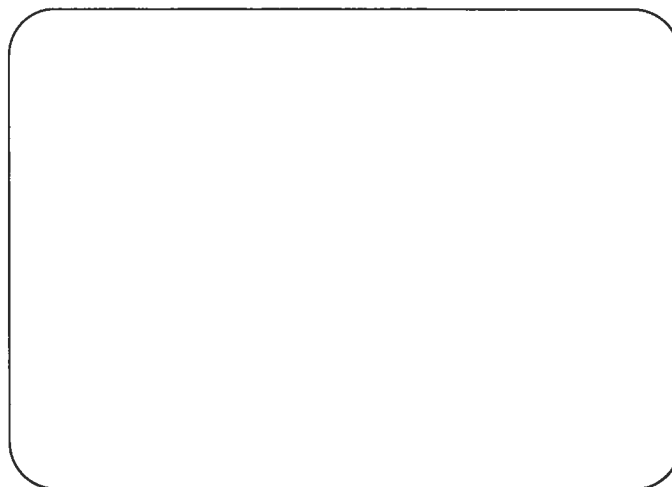
(Distribution Tee To Engine & Pump Compartments)

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 (Fire distribution manifold to side engine compartment nozzle)	
4	19265	1		HOSE ASSEMBLY - 4052-08-08PS-08PS (Fire distribution manifold to rear engine compartment nozzle)	
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 (Fire distribution manifold to pump area nozzle)	
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	

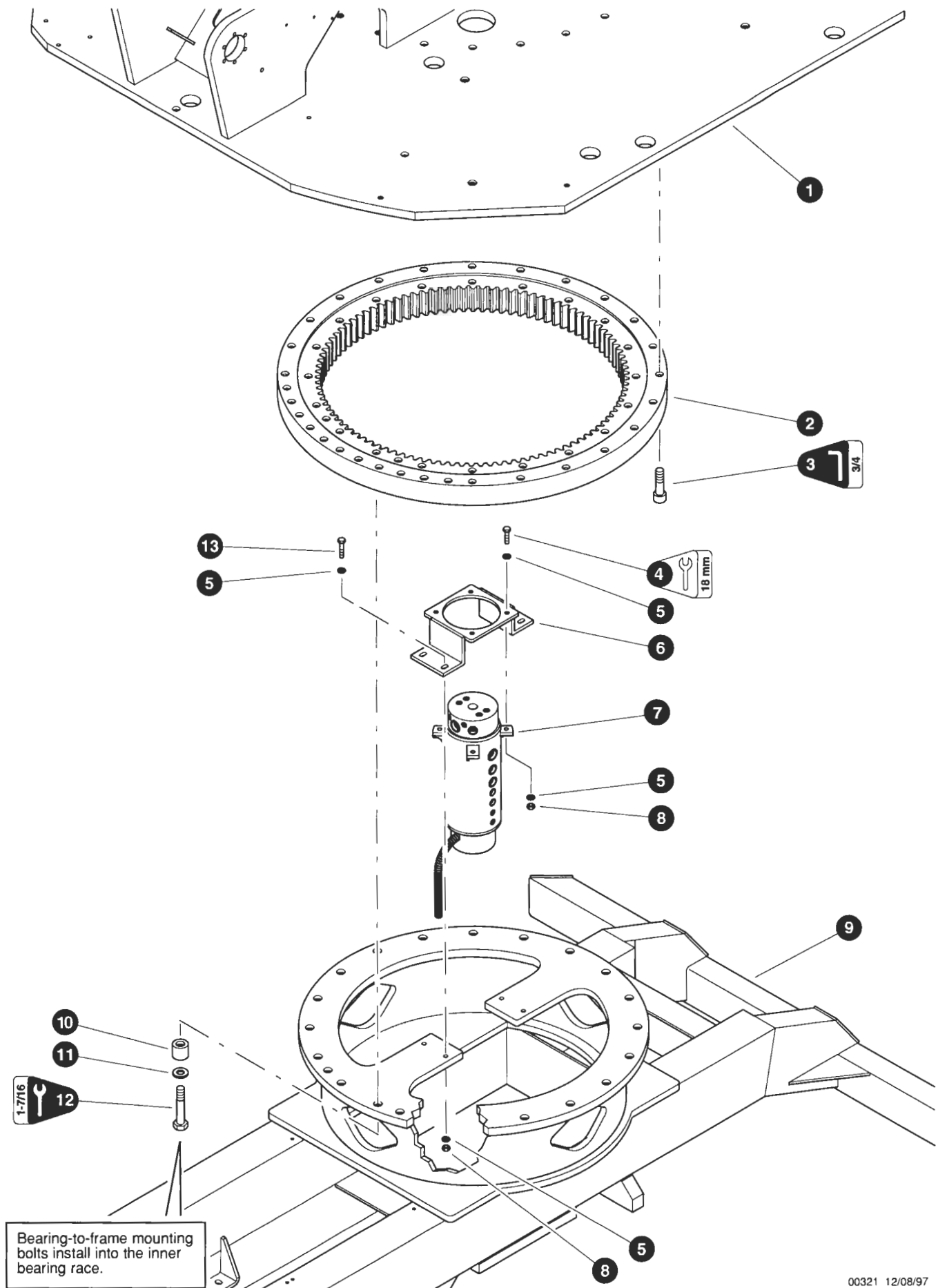
✓ See reference page for component or assembly breakdown.

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Structural Components - Upper Turntable

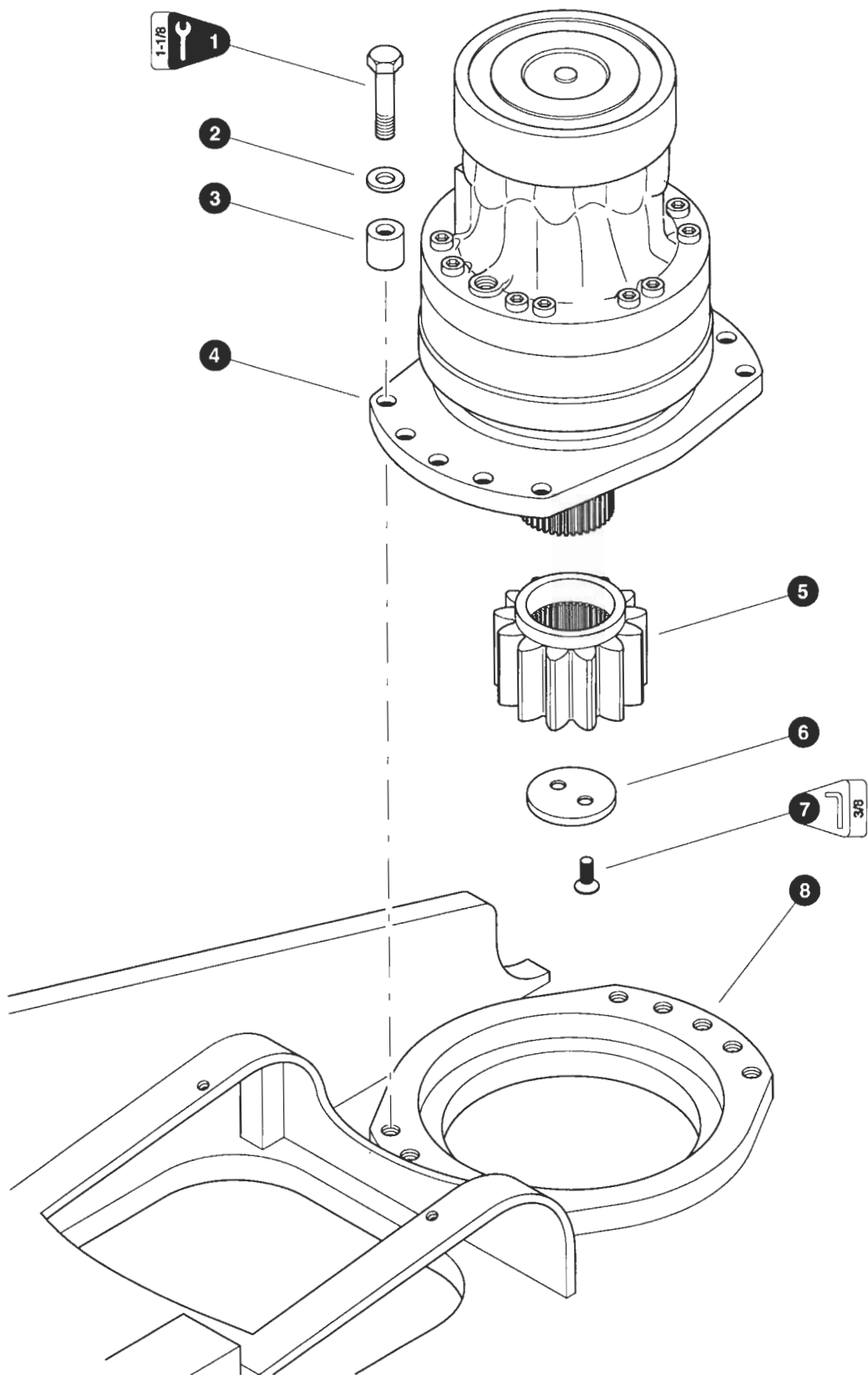


00321 12/08/97
9.375

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"	

✓ See reference page for component or assembly breakdown.

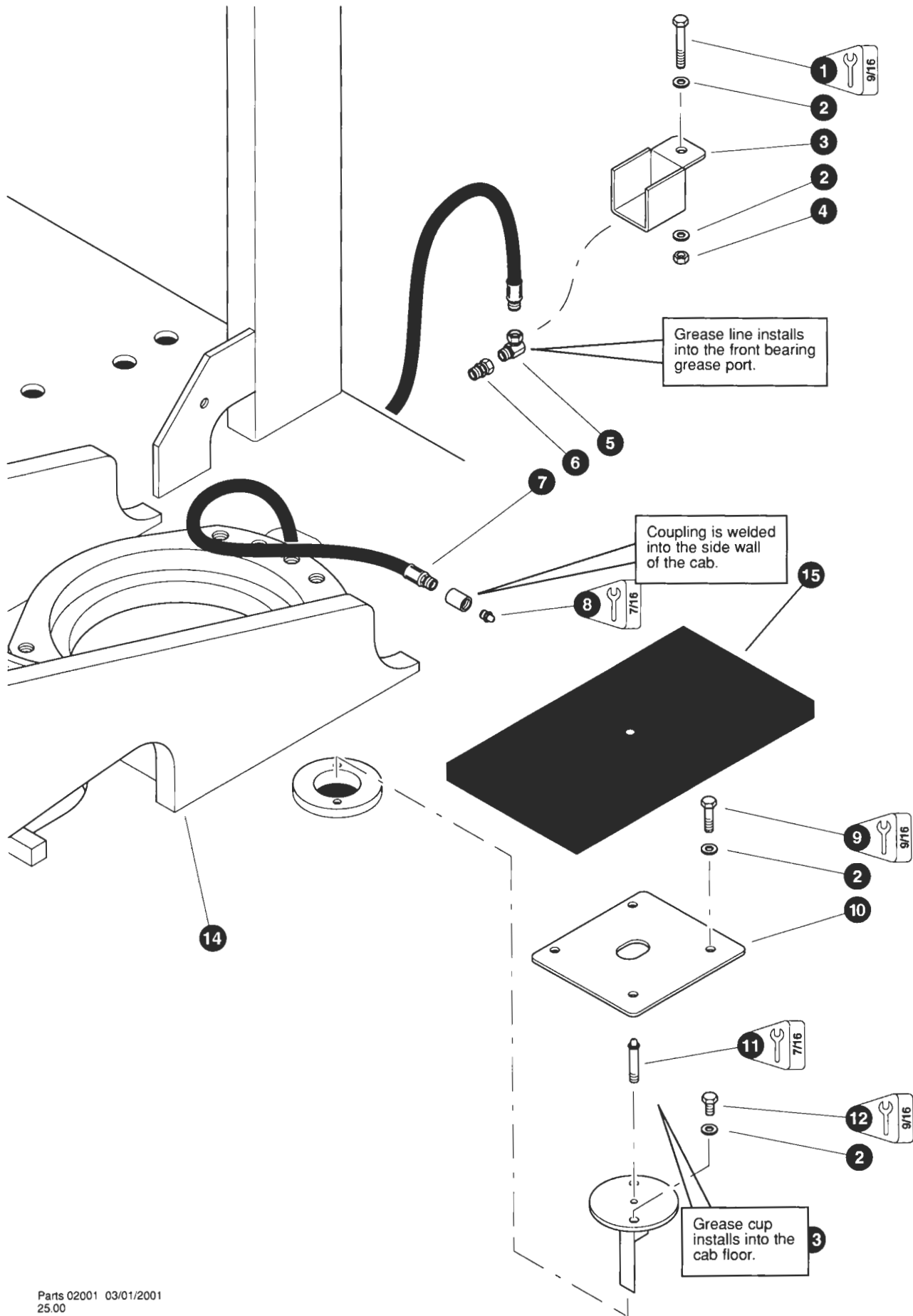


Parts 00464 02/20/98
25.00

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.

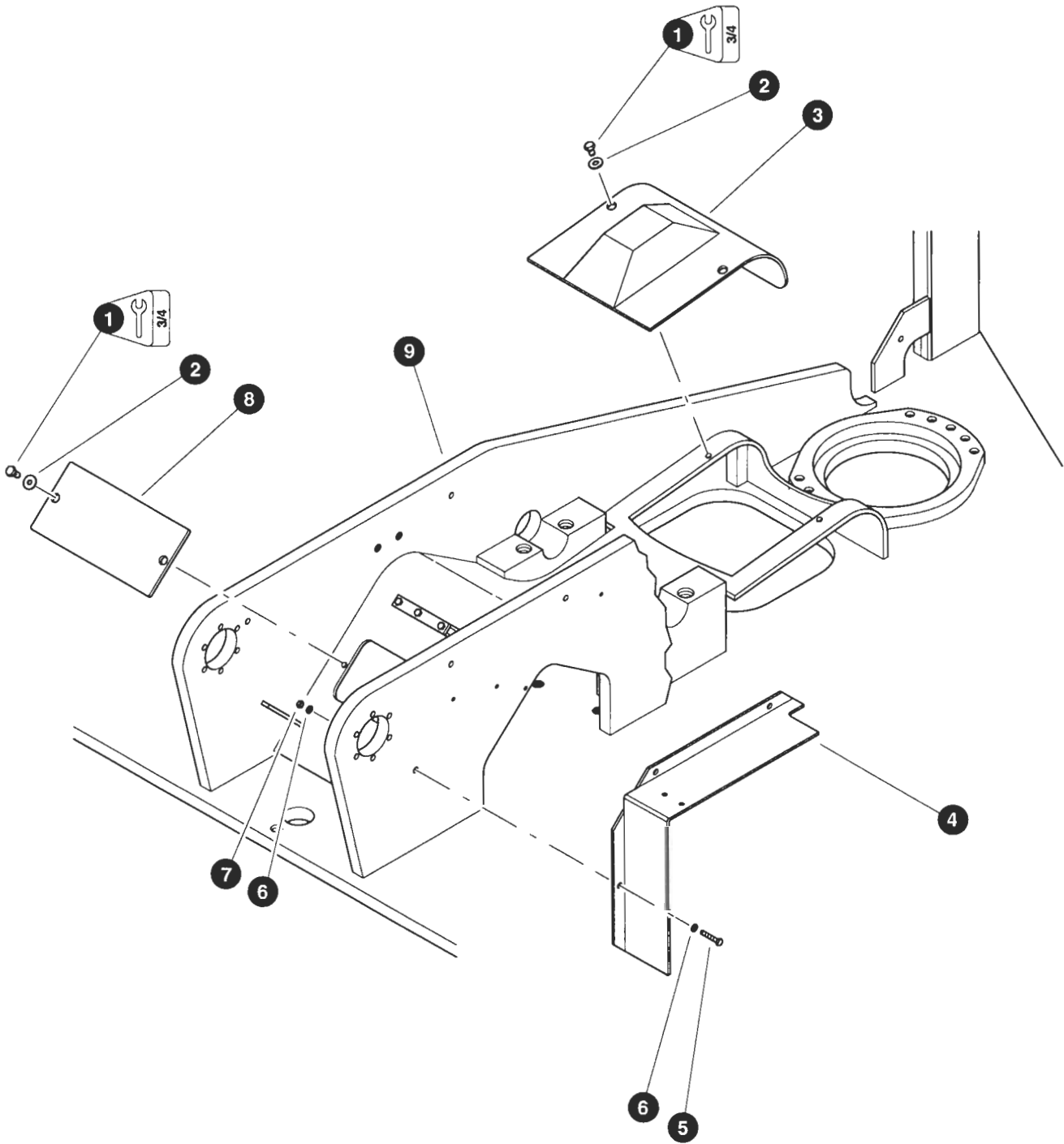


Parts 02001 03/01/2001
25.00

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

✓ See reference page for component or assembly breakdown.

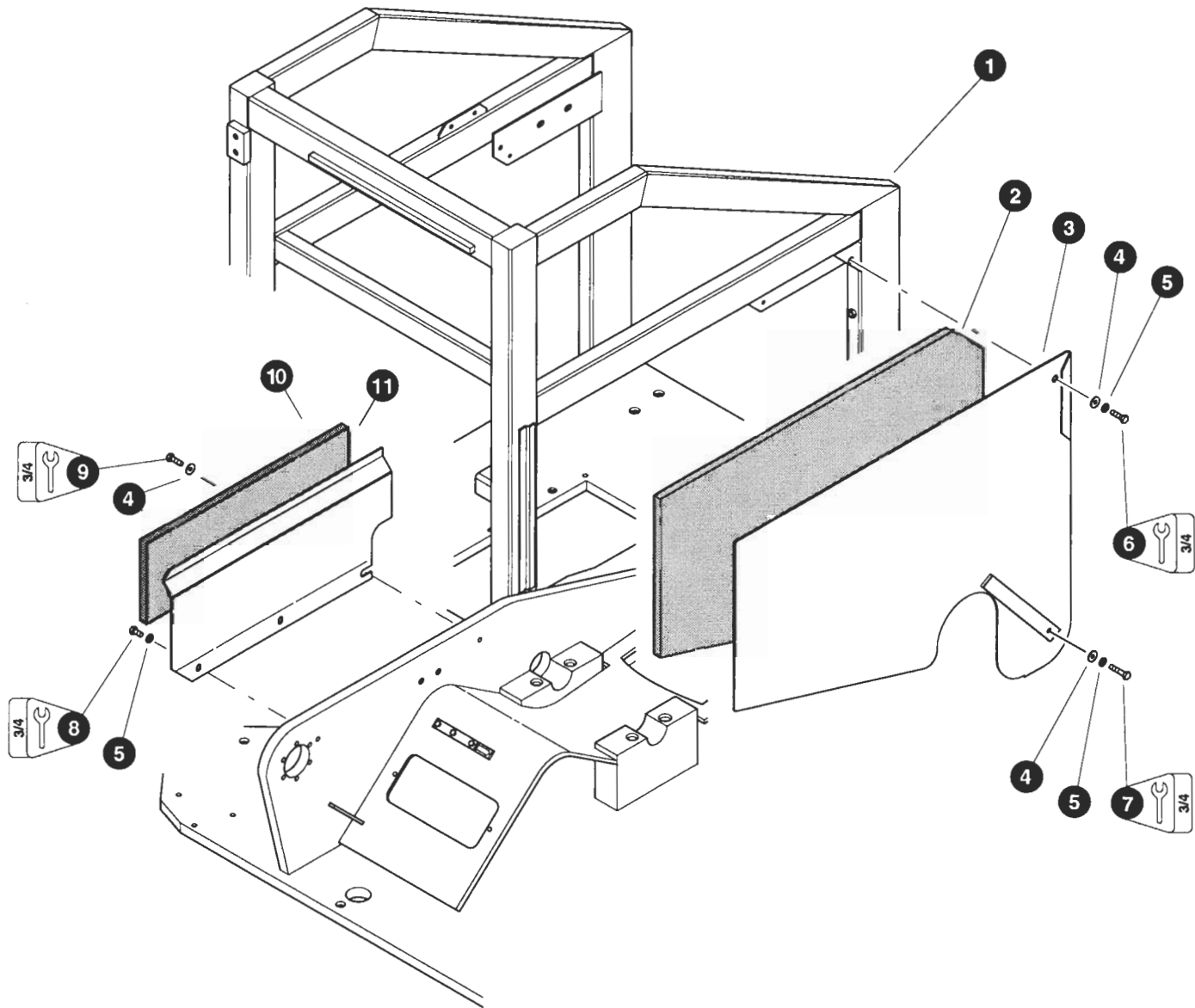


UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION

(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.

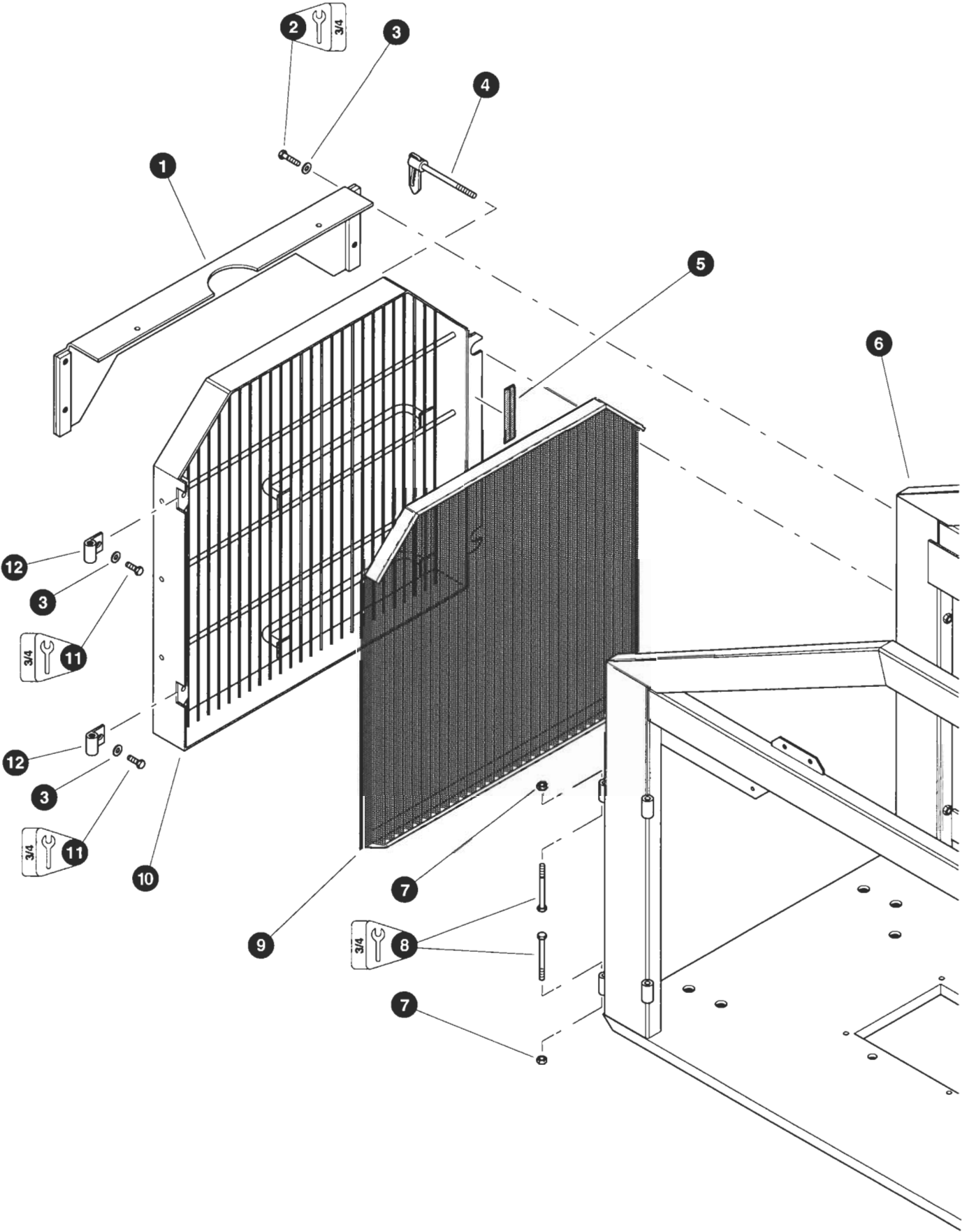


UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION

(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	

✓ See reference page for component or assembly breakdown.



Parts 00312 12/05/97
12.50

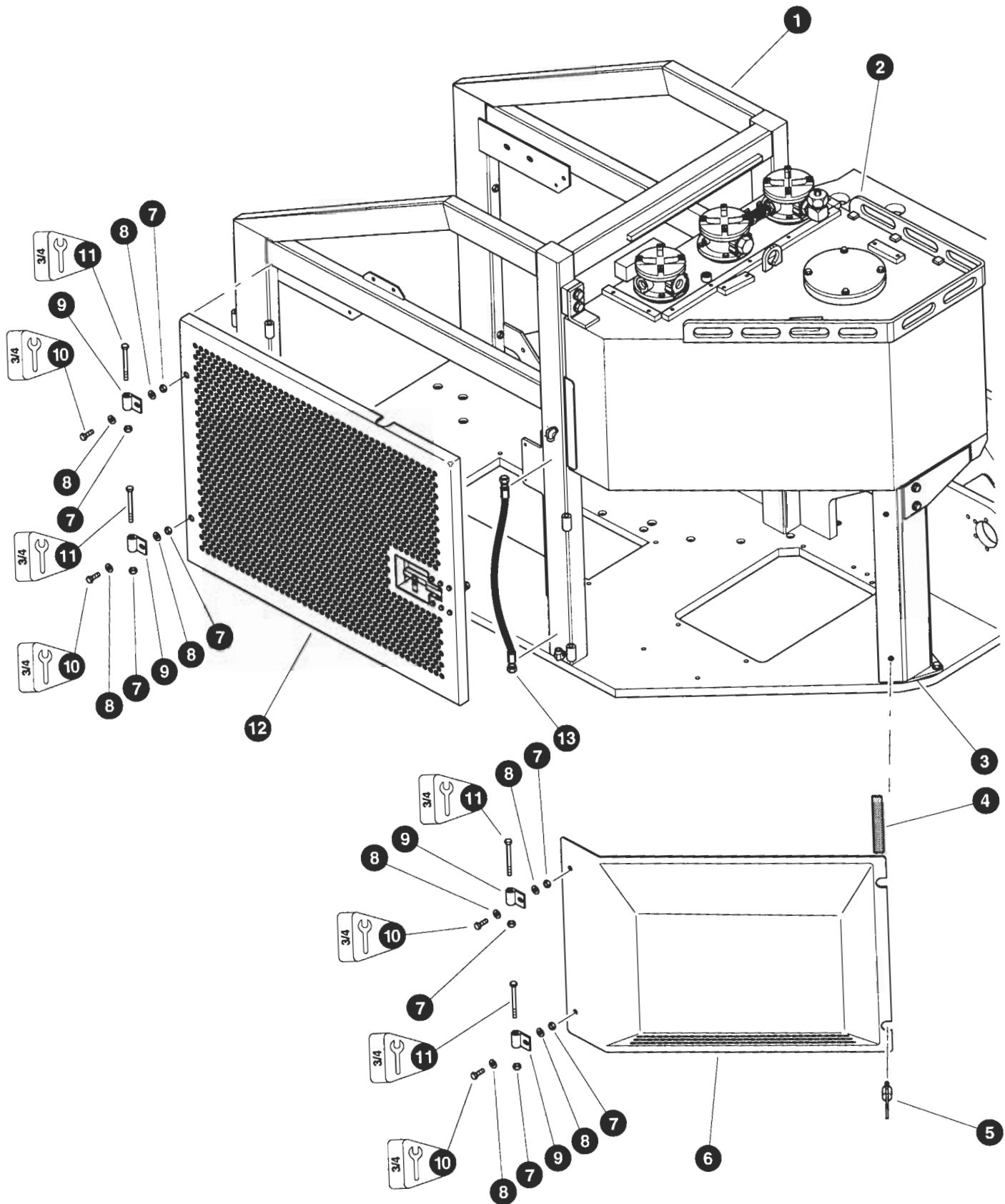
UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION

(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.



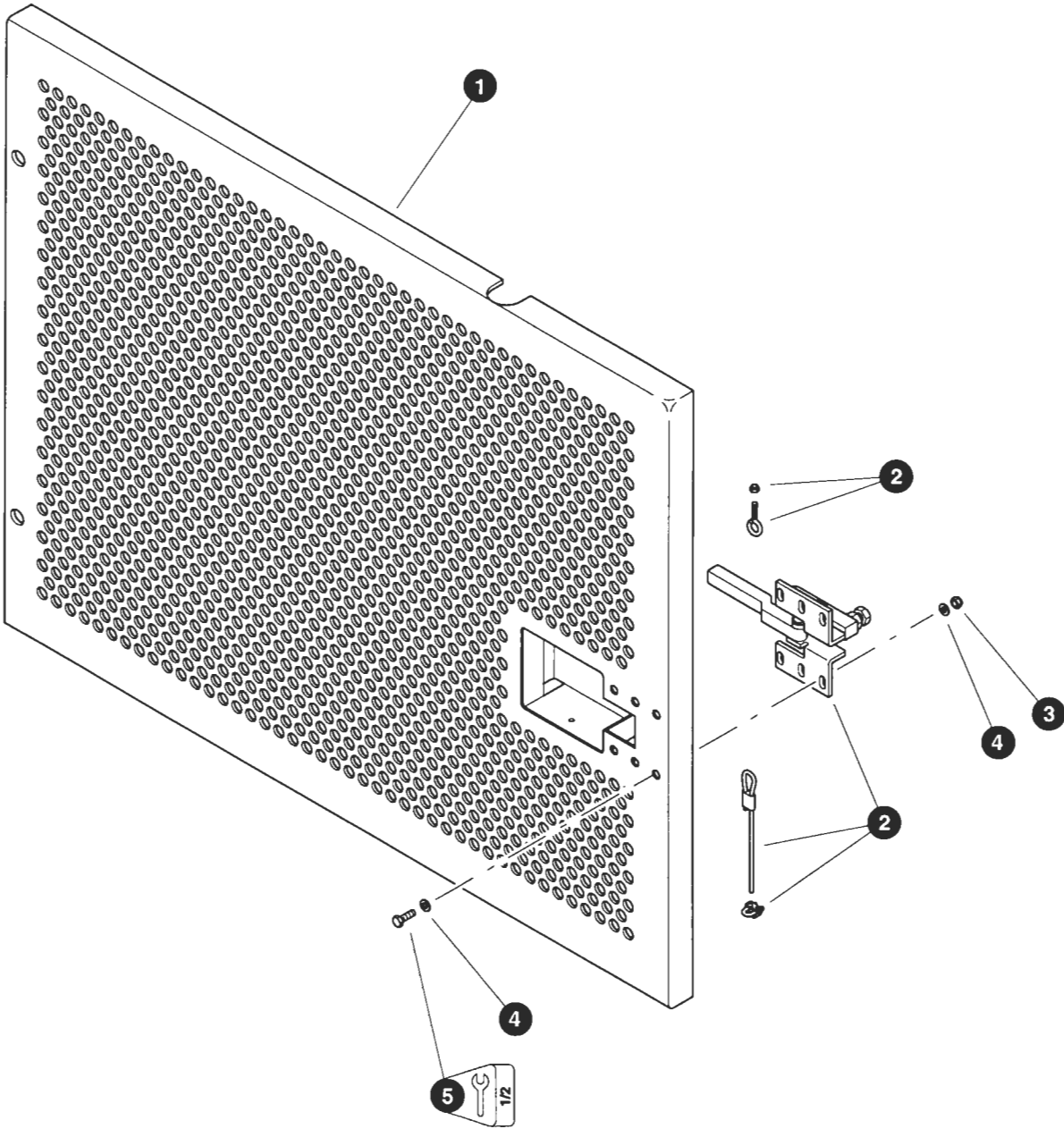
Parts 00313 12/05/97
9.375

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)	

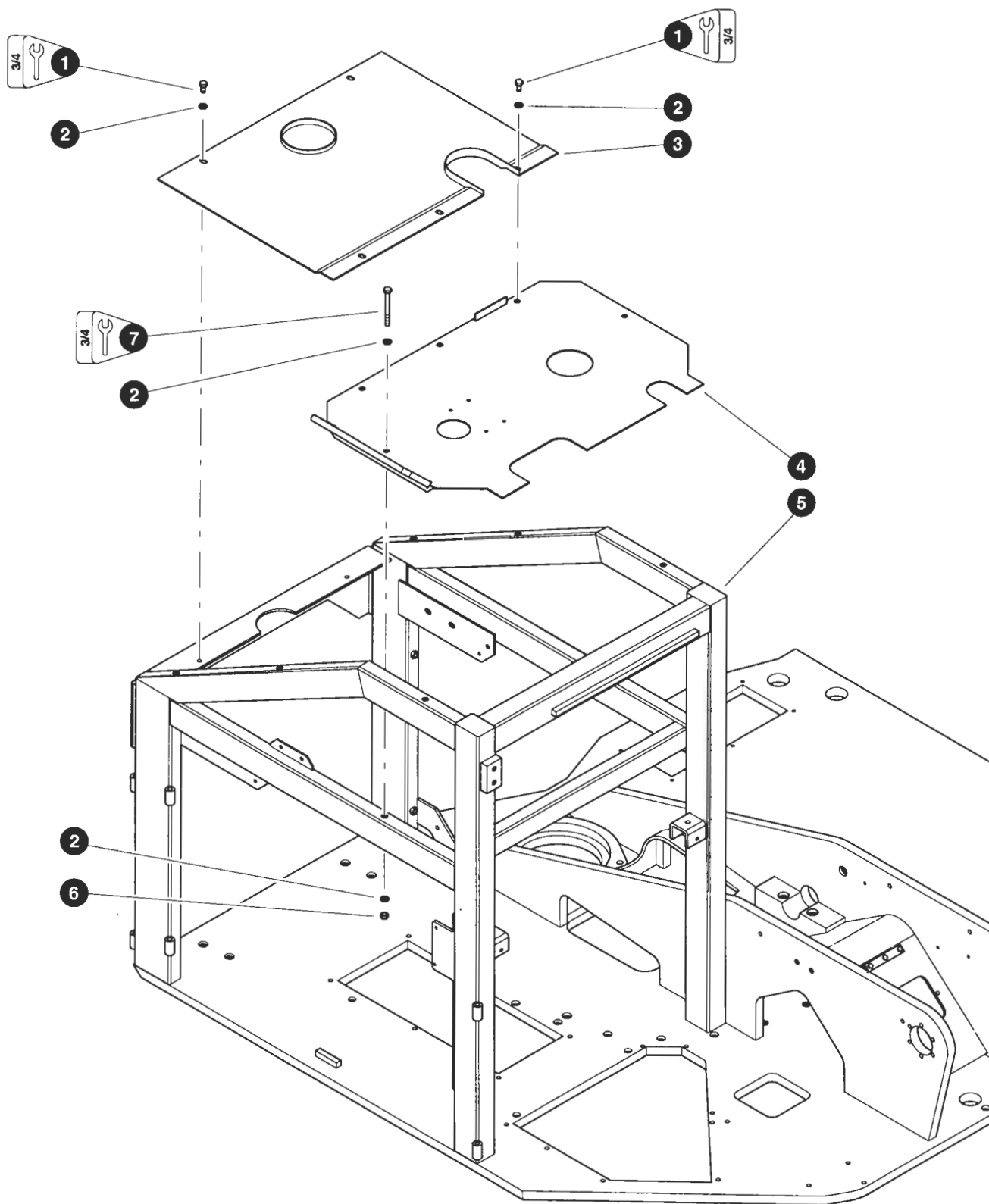
- ⊗ Bulk Material - order length required in feet or meters.
 ✓ See reference page for component or assembly breakdown.



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"	

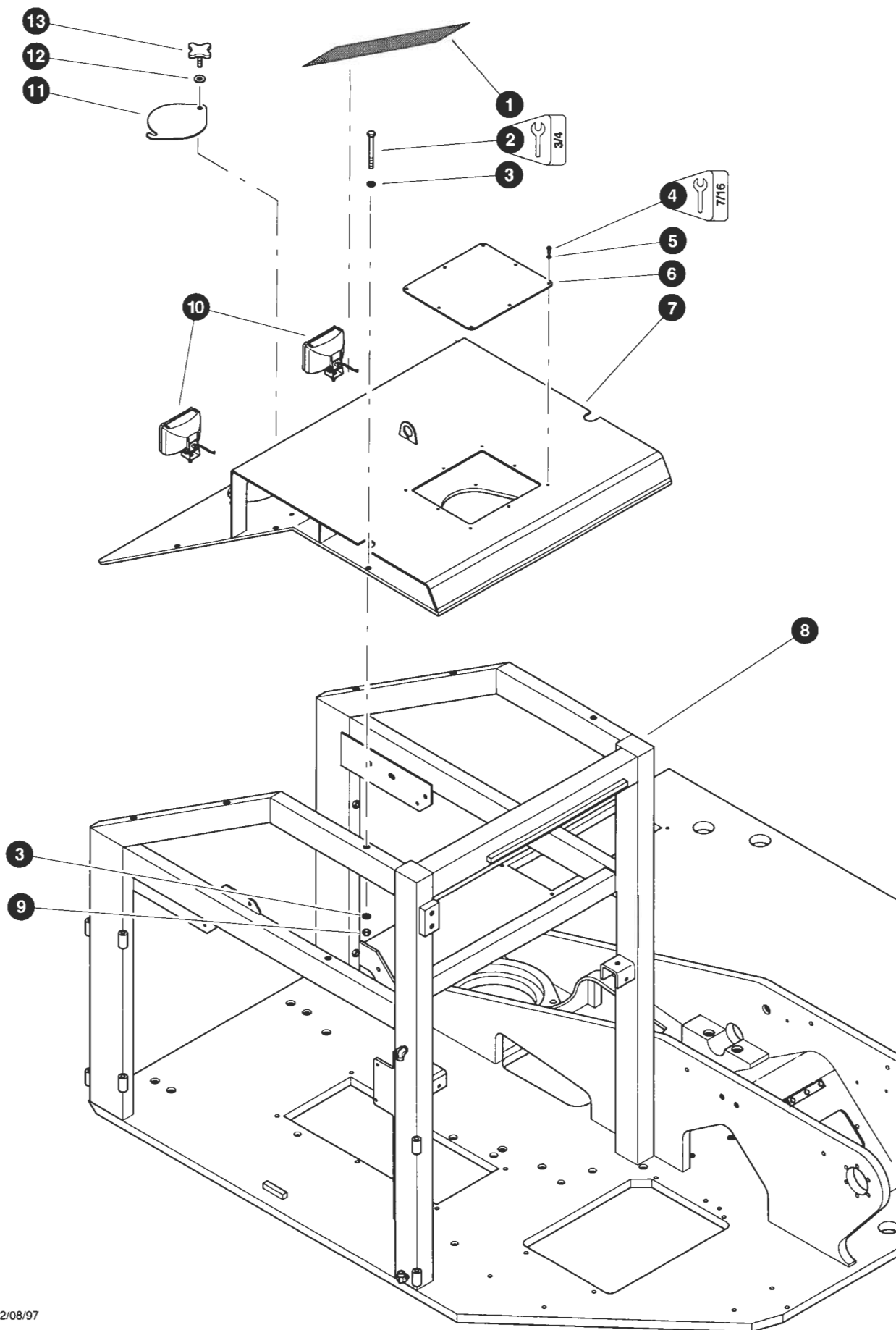
- ☐ Kit or Assembly - includes all items indented underneath.



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

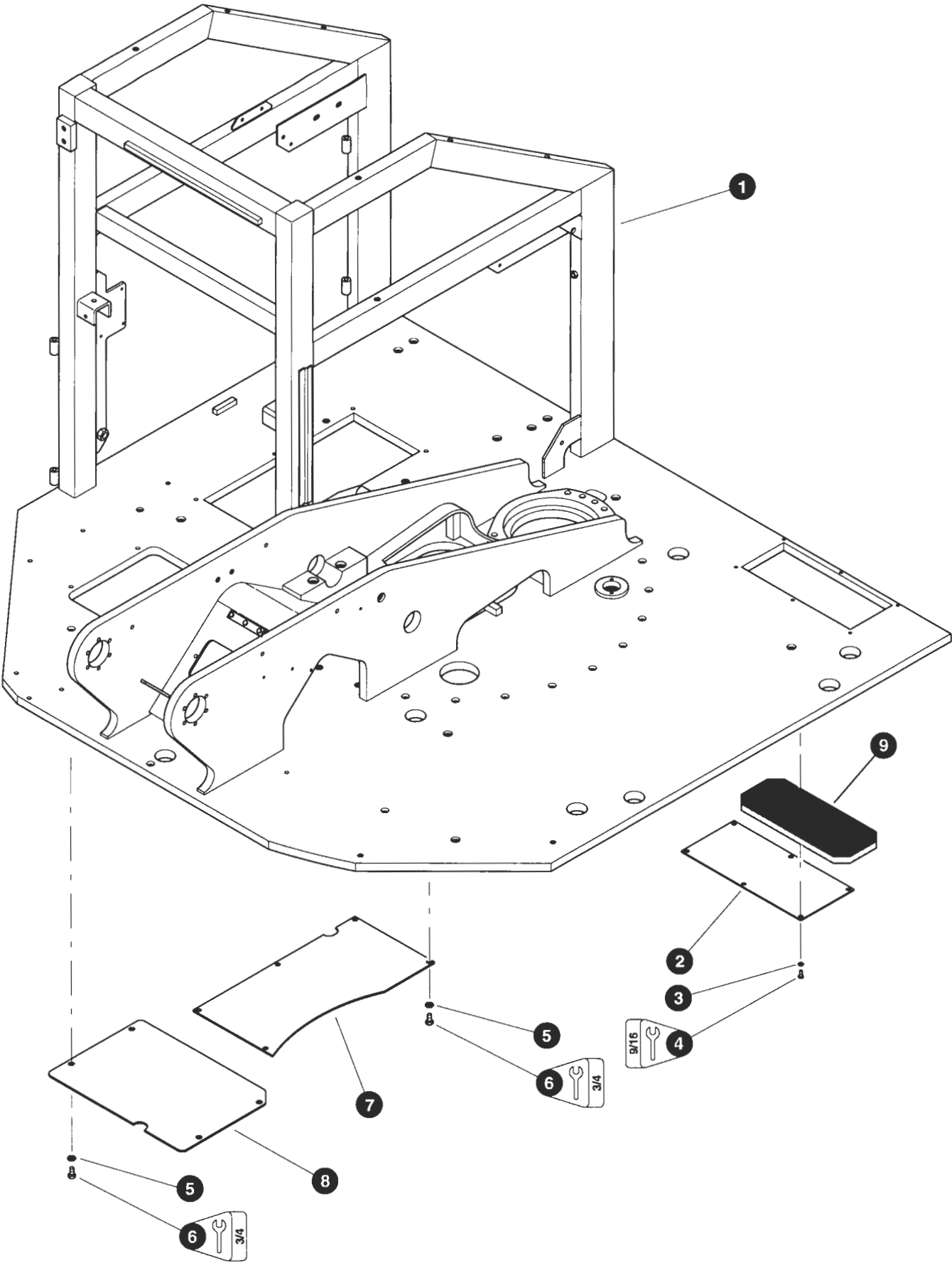
UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION

(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.



Parts 00320 12/08/97
9.375

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	

✓ 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 - CHECK ENGINE OIL LEVEL
WATER TEMPERATURE	210°F (99°C)	STOP - CHECK COOLANT LEVEL, ENGINE BELTS, WATER PUMP & DEBRIS IN RADIATOR FINS
HYDRAULIC OIL TEMPERATURE	min. 172°F (77°C) max. 182°F (83°C) max. 212°F (100°C)	STOP - CHECK FOR HYDRAULIC SYSTEM PROBLEM OR FOR DEBRIS IN OIL COOLER FINS
RETURN FILTER BACK PRESSURE	20 PSI (138 kPa)	STOP - CHECK FOR HYDRAULIC SYSTEM PROBLEM OR FOR DEBRIS IN OIL COOLER FINS

NOTE: The return filter back pressure will fluctuate as the pump is put (20 PSI) allowing cleaning hydraulic system in circulation and return filter clean.

Changing Return Filters

When you attempt to remove the return filter, the machine will stop. This is a safety feature. To remove the return filter, you must first stop the machine. The return filter is located on the right side of the machine.

Low Hydraulic Oil Level

Very Important!
Keep oil level within green zone of the sight gauge. Low oil level may cause 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 OPERATOR'S MANUAL. SAFETY CHARTER CAN RESULT FROM UNTHOUGHT OPERATIONAL.

4

CAUTION

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

THE FOLLOWING BREAK-IN PROCEDURE MUST BE PERFORMED:

1. Torque tapered hub retainer bolts after the first 3 hours of operation (3 bolts, 1 per if no bolt level system).
2. Torque tapered hub retainer bolts each day of operation until the tapered hub is sealed (the tapered hub is sealed when the retainer bolts no longer loosen with operation).
3. Torque tapered hub retainer bolts after every 80 hours of operation.
4. Visually inspect tapered hub pivots daily.

5

NOTICE

Operating Advice For The TIMBCO TF820 Clam Dunk / Forewinder

1. Check vessel log and engine after the first 96 hours of operation. A vessel wheel log checks an engine damage to the side planetary and wheel hub. Torque vessel log scale to 100 lbs.
2. Check all differential and wheel joints every 100 hours of operation. Capable to points to the front side because of the differential angle being used. Very wet or muddy conditions require greasing more frequently.
3. Check articulation bearing ball tension, ending bearing ball tension, and tapered hub ball tension after the first 96 hours of operation.
4. When the vessel switch is in the "LITTLE" position, the two wheel drive motors stay in maximum displacement giving the vessel power with a top speed of 2.5 mph. In the "HARBOR" position, the wheel drive motor displacement can vary from 500c to 1400c, depending upon power requirements, giving a top speed of 3.5 mph.
5. When going down a slope, do not let the machine reach maximum speed (2.5 mph) then hit the brakes or release the drive pedal abruptly which can cause the engine to overheat. This could cause the wheel drive motor to exceed the maximum RPM or an instant braking could cause damage to the single wheel gear.
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 holding off the drive pedal, power displacement is reduced requiring less engine horsepower but also maintaining pressure in the machine will continue to move, although slower. Keep the engine RPM high as it is not always logging down.
7. When going back to pick up a load, clamp the grapple to the clam (Lure machine) in the case (operator's manual). Then put the handle in FORWARD (ATTN) and REVERSE STEER. This way there is never the need to turn around.
8. When loading, use such the degree to about 170° (180°). The tractor will work best at this angle and you will not waste fuel.
9. Use the pressure of the wheel drive motor's pump at the top of the instrument panel. This gauge shows the pressure (PSI) to move the machine. At 200 PSI use wheel drive pump (out of water) and the machine will not work.
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 Dunk, keep the clam bucket arms open. When closed, the clam will 3/4 inch closer the clutch as the side machine over rough ground.
12. It is very important to read the Operation & Maintenance manual to that the operator is not maintenance of the machine is fully understood. The TIMBCO TF820 is a great product, but it is only as good as the operator who operates and maintains it.

12

MAXIMUM TIRE INFLATION

PRISTONE 15-528	30 PSI (206 kPa)
PRISTONE 25-125	30 PSI (206 kPa)
PRISTONE 25-85	30 PSI (206 kPa)
PRISTONE 34 x 37	30 PSI (206 kPa)
PRISTONE 7000-35.5	60 PSI (413 kPa)
PRISTONE 7000-35.5	80 PSI (551 kPa)

Consult your TIMBCO dealer for correct tire pressure when using other brands.

TORQUE WHEEL LUG NUTS (31) 150 LB (100 Nm)

11

NOTICE

REMOVE ALL POSITIVE BATTERY CABLES BEFORE WELDING. FAILURE TO DO SO MAY RESULT IN DAMAGE TO ELECTRICAL COMPONENTS.

6

WARNING

DO NOT USE CLAMP ARMS CONTINUOUSLY HOLD WHILE TURNING AND LOADING.



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

BEFORE OPERATION OF "EMERGENCY ESCAPE" HATCH EVERY 10 HOURS. LOOSEN THE STAR KNOBS AS TURNS AND PULL/PULL ON ESCAPE HATCH. THE HATCH SHOULD NOT STICK. IF HATCH STICKS, REMOVE IT COMPLETELY AND APPLY "ANTI-SEIZ" TO REMOVED BALL. RE-INSTALL HATCH AND TIGHTEN ALL STAR KNOBS.

8

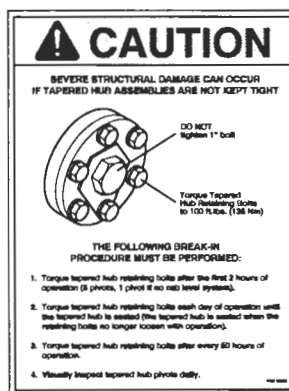
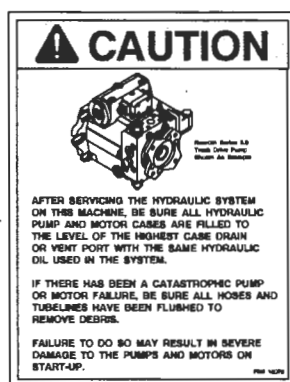
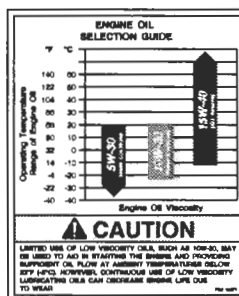
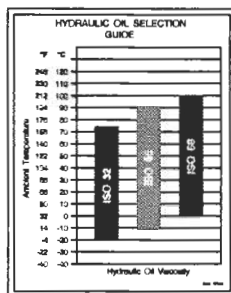
ATTENTION: Always follow correct battery terminal polarity. Always use proper polarity when connecting.

LEFT

RIGHT

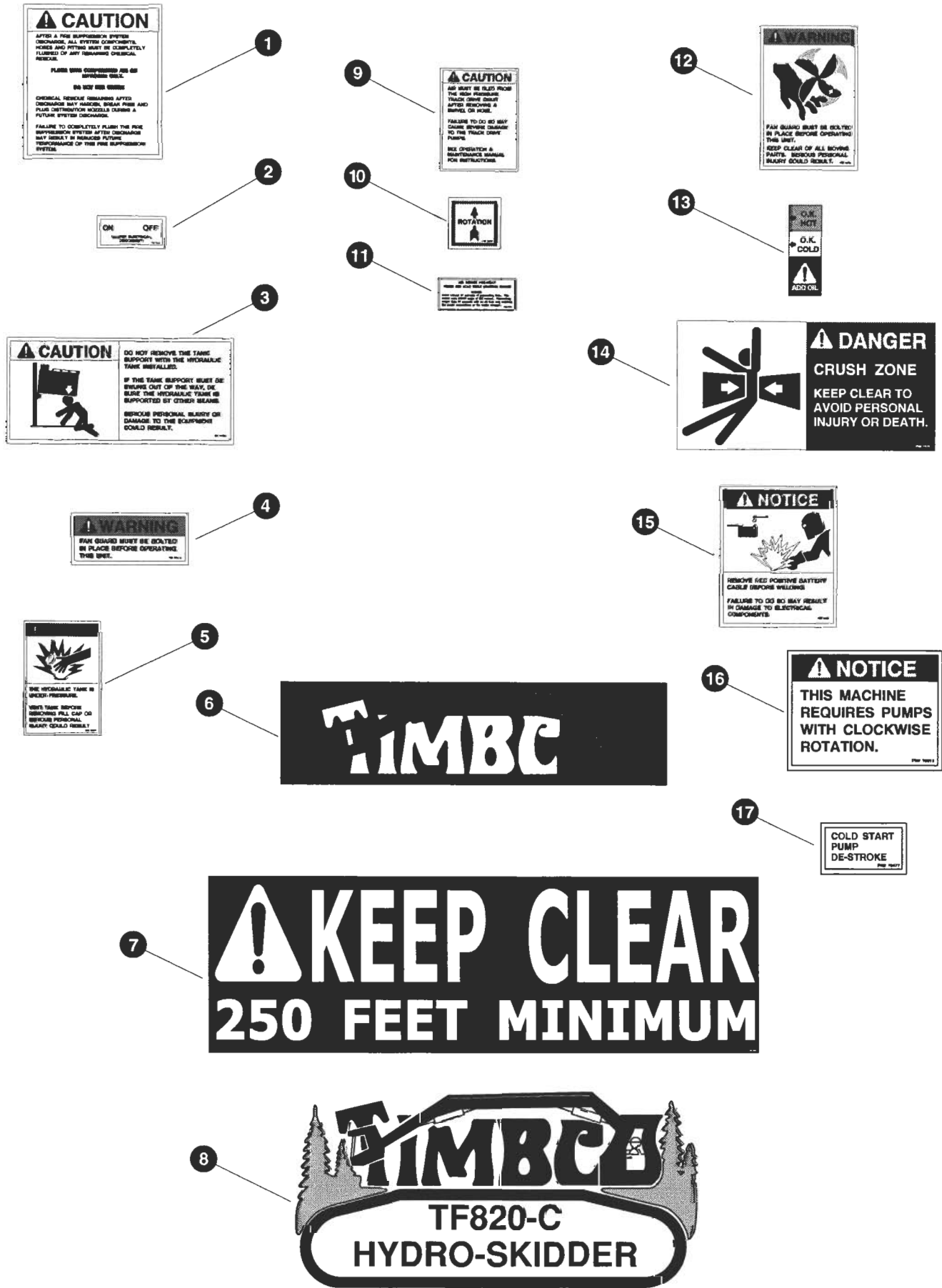
DECALS (Inside Cab)

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 - U.S. standard bar saw (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)	

[illegible]

DECALS
(Inside Pump Cover)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	20947	1	DECAL, preventive maintenance - gar-max bushing (inside pump swing out door)	
2	18071	1	DECAL, engine oil selection guide (inside pump swing out door)	
3	18066	1	DECAL, tapered hub torque (dash panel side plate)	
4	18069	2	DECAL, hydrostatic bleed caution (inside pump swing out door & inside track motor housing)	
5	18075	1	DECAL, pump/motor case drain (inside pump swing out door)	
6	17160	1	DECAL, hydraulic oil selection guide (inside pump swing out door)	

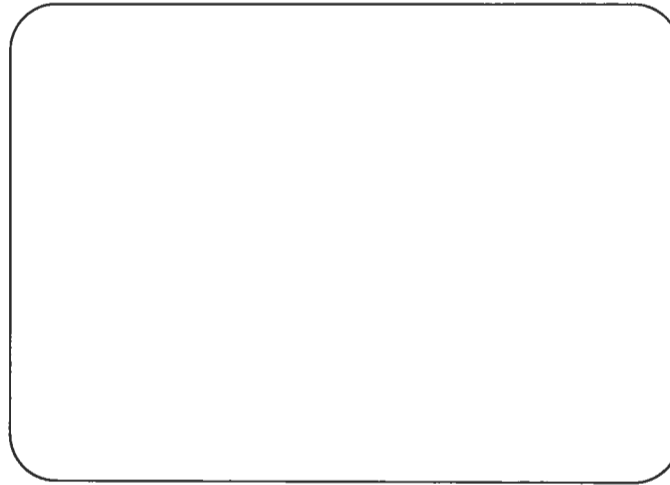


DECALS

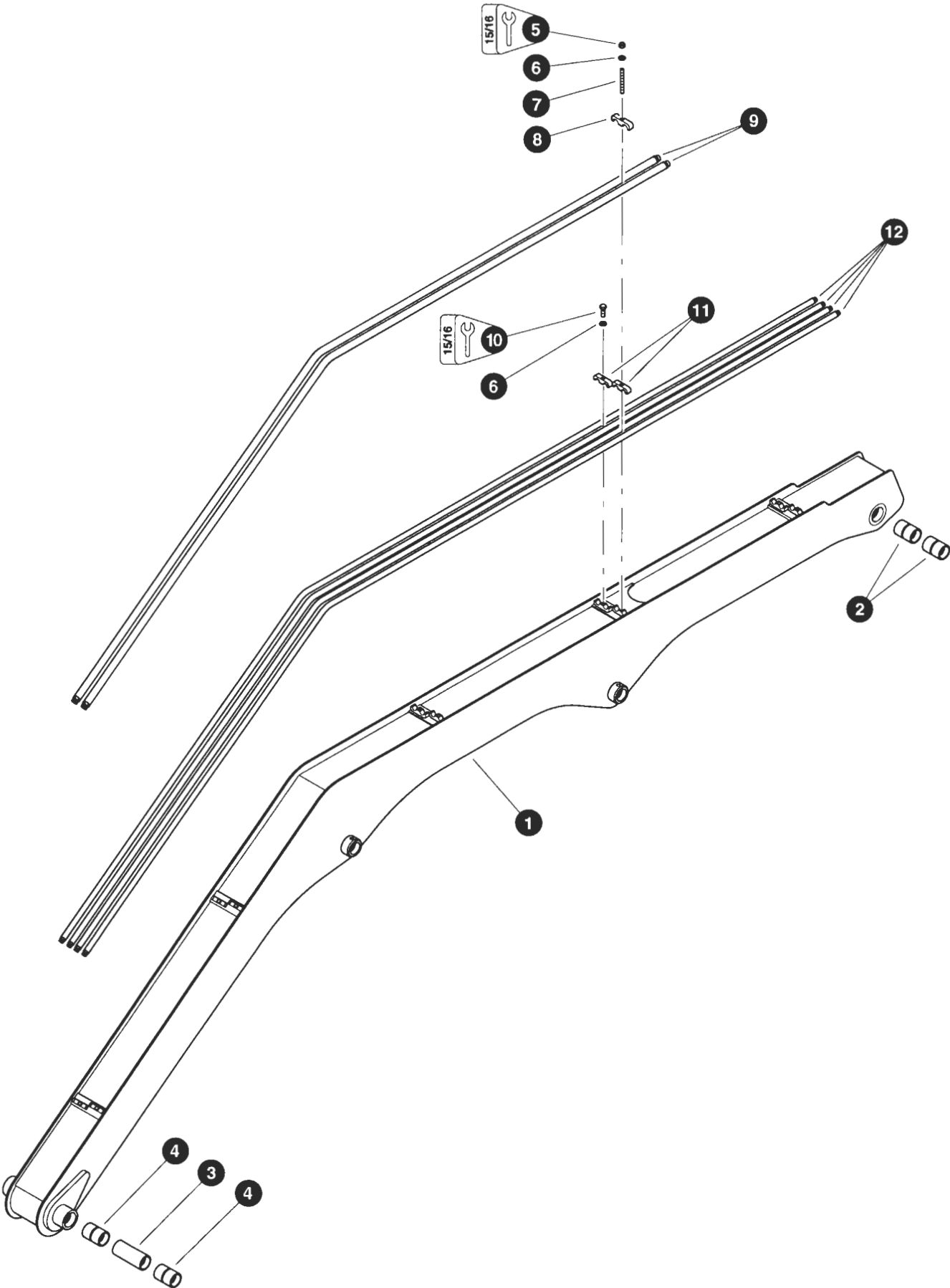
(Exterior & Misc.)

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 tanks)	
8	19530	2	DECAL, door logo - TF820-C (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 (carbody sides to the rear of slack adjusters, on left track motor compartment cover, front of intermediate leveler 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	

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Structural Components - Main Boom



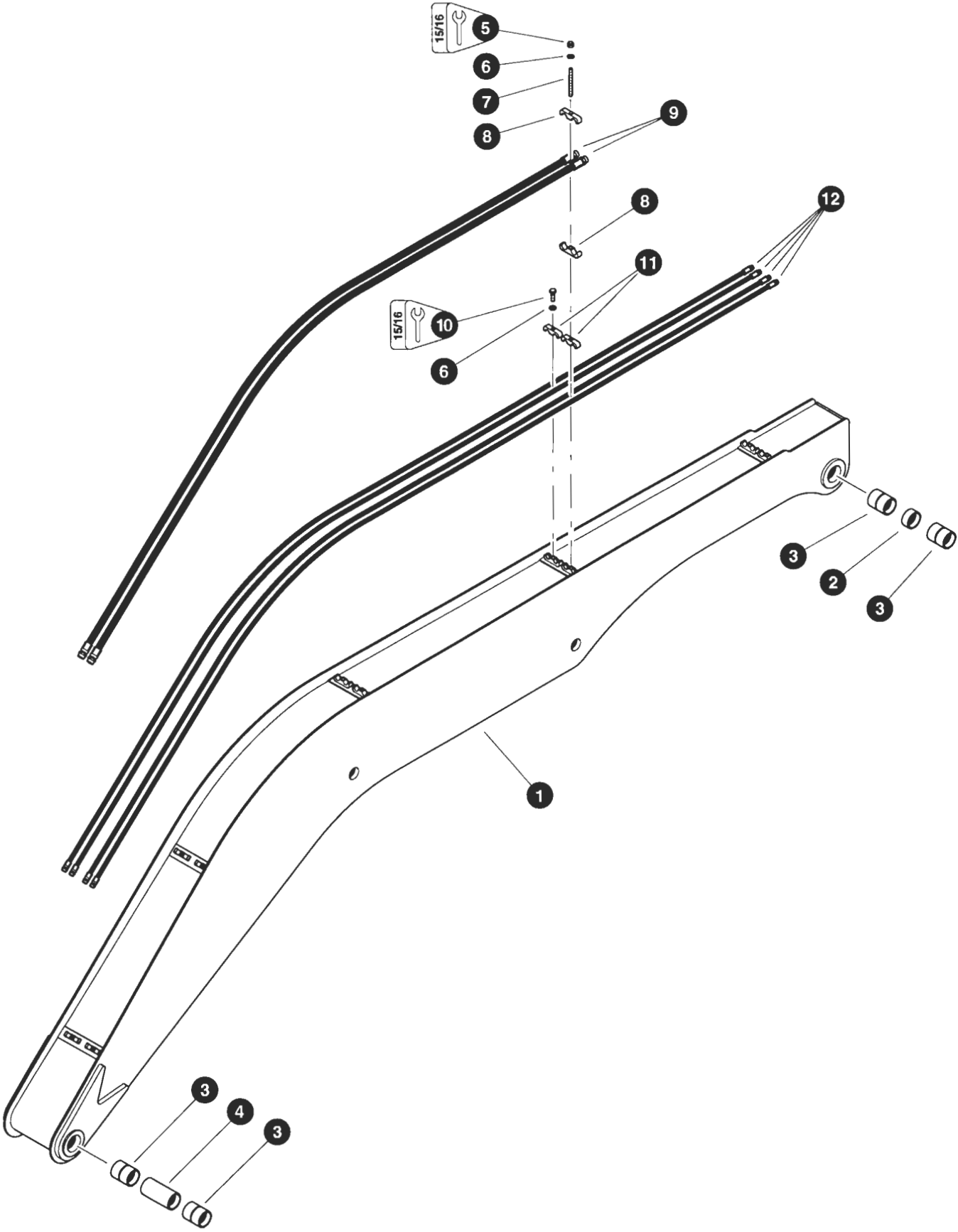
Parts 00182 01/08/97
6.25

MAIN BOOM COMPONENTS (Tubular Design)

(Used on machines PDN# 044FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19326	1	☐	WELDMENT, main boom - 3-1/2" pin	
2	11704	2		BUSHING - 2-1/2" x 4-1/4"	
3	12210	1		SPACER, base -2-1/2" x 7-1/2"	
4	11704	2		BUSHING - 2-1/2" x 4-1/4"	
5	15563	5		NUT, nylock - 5/8"	
6	10771	10		WASHER, SAE flat - 5/8"	
7	19207	5		STUD - 5/8" x 5-1/4"	
8	19324	5		CLAMP, tubeline - 3/4" x 3/4" (bent)	
9	18930	2	☐	TUBELINE - 3/4" x 170"	
	15152	2		CONNECTOR, straight - FF1852T-1212S	
10	15526	6		BOLT - 5/8" x 2"	
11	15272	10		CLAMP, tubeline - 1/2" x 1/2"	
12	18931	4	☐	TUBELINE - 1/2" x 216" (bent)	
	15117	2		CONNECTOR, straight - FF1852T-0808S	

☐ Kit or Assembly - includes all items indented underneath.



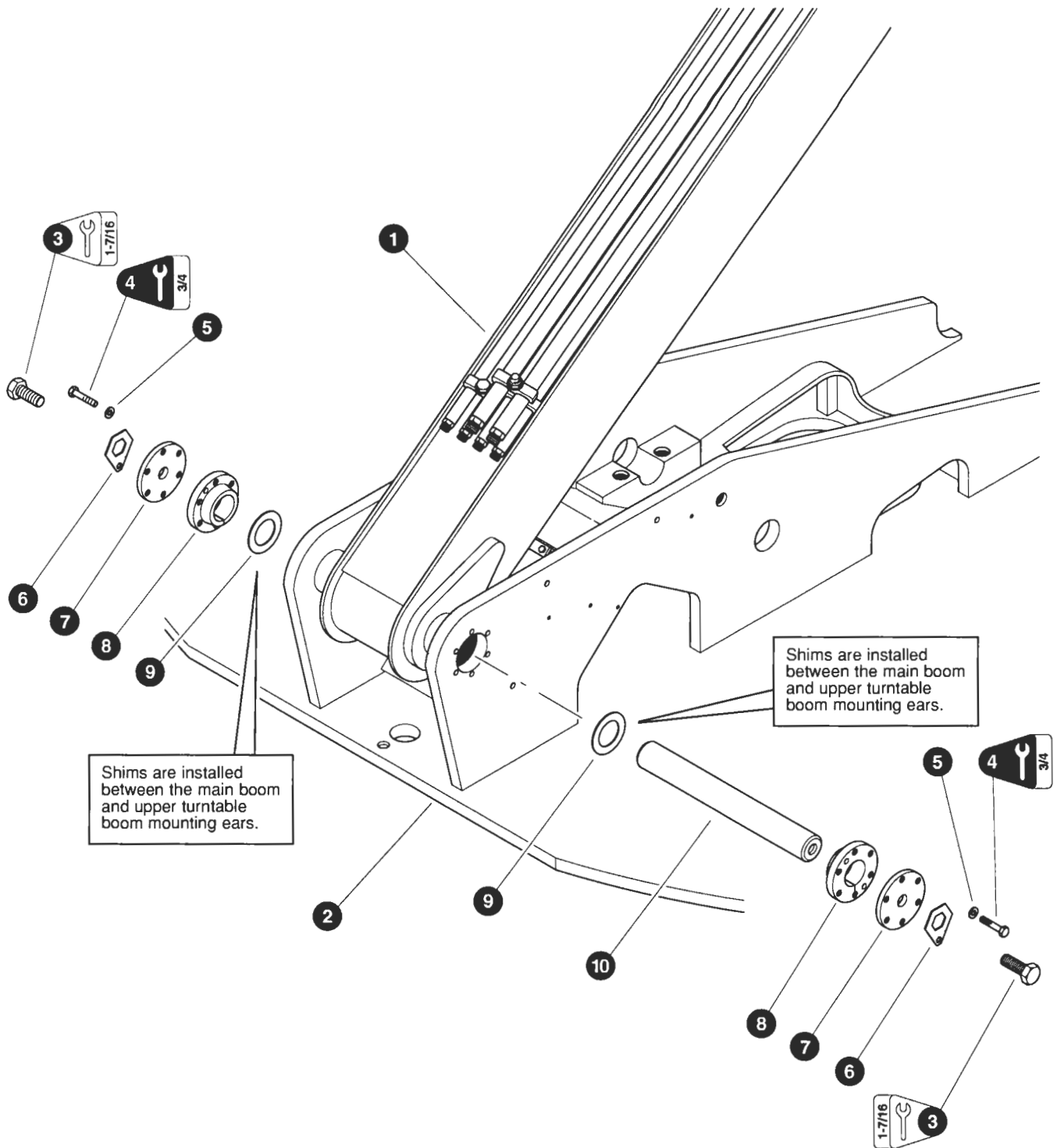
Parts 00523 04/04/98
6.25

MAIN BOOM COMPONENTS (Welded Box Design)

(Used on machines PDN# 045FWD and above)

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	5		NUT, nylock - 5/8"	
6	10771	10		WASHER, SAE flat - 5/8"	
7	19207	5		STUD - 5/8" x 5-1/4"	
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.

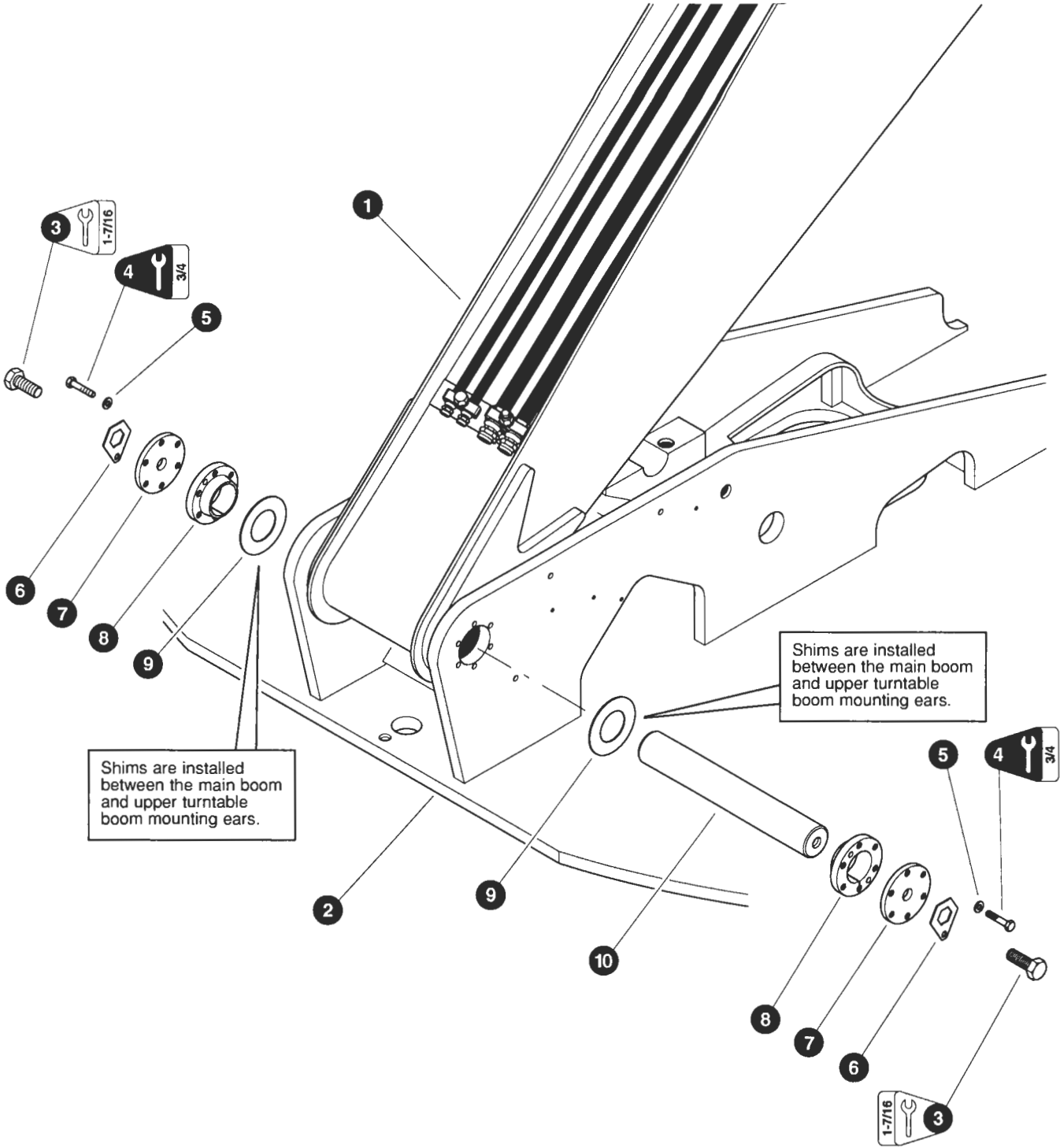


MAIN BOOM INSTALLATION (Tubular Design)

(Used on machines PDN# 044FWD and below)

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	12118	2		HUB, tapered - 1-1/4" plate	
9	19483	AR		SHIM - 1/4" thick	
	19485	AR		SHIM - 3/16" thick	
	19484	AR		SHIM - 1/16" thick	
10	11711	1		PIN, chromed - 2-1/2" x 20"	

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

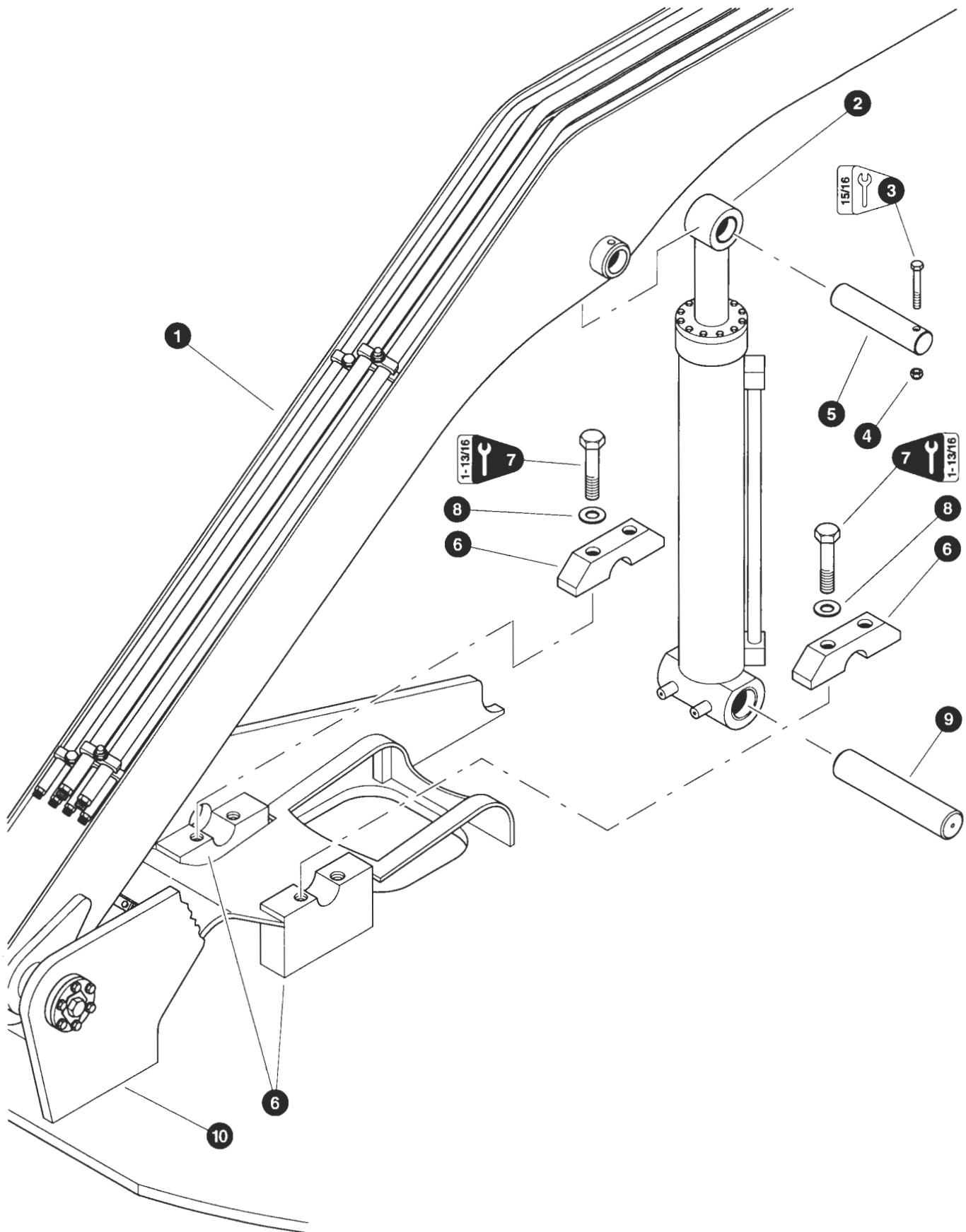


MAIN BOOM INSTALLATION (Welded Box Design)

(Used on machines PDN# 045FWD and above)

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 00184 01/08/97
12.50

MAIN BOOM (HOIST) CYLINDER INSTALLATION (Tubular Design)

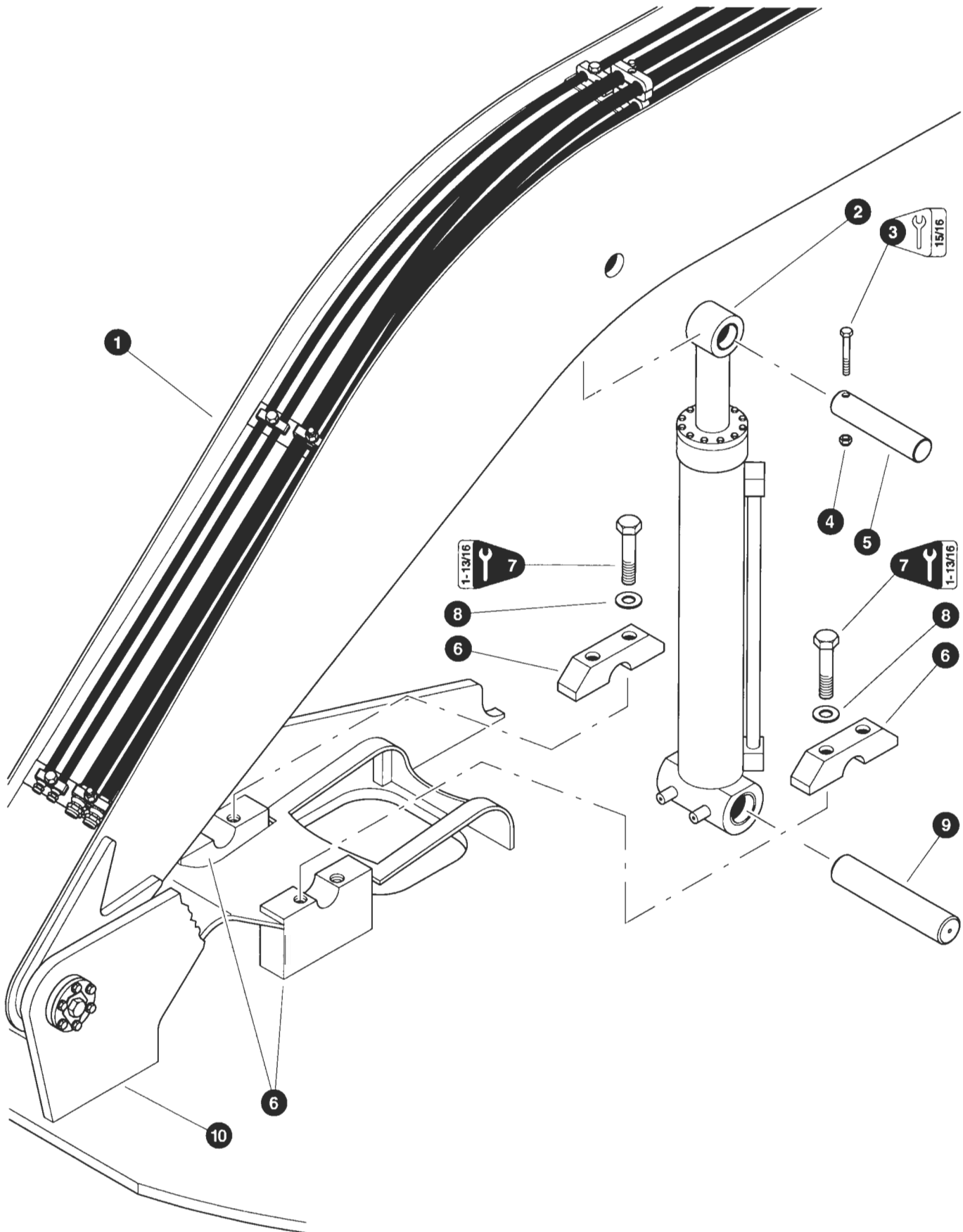
(Used on machines PDN# 044FWD and below)

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	18896	1		PIN, chromed - 3" x 11-1/4"	
6	12351	2	□	WELDMENT, pin retainer block - 3" pin (See note below)	
	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 00525 04/06/98
12.50

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

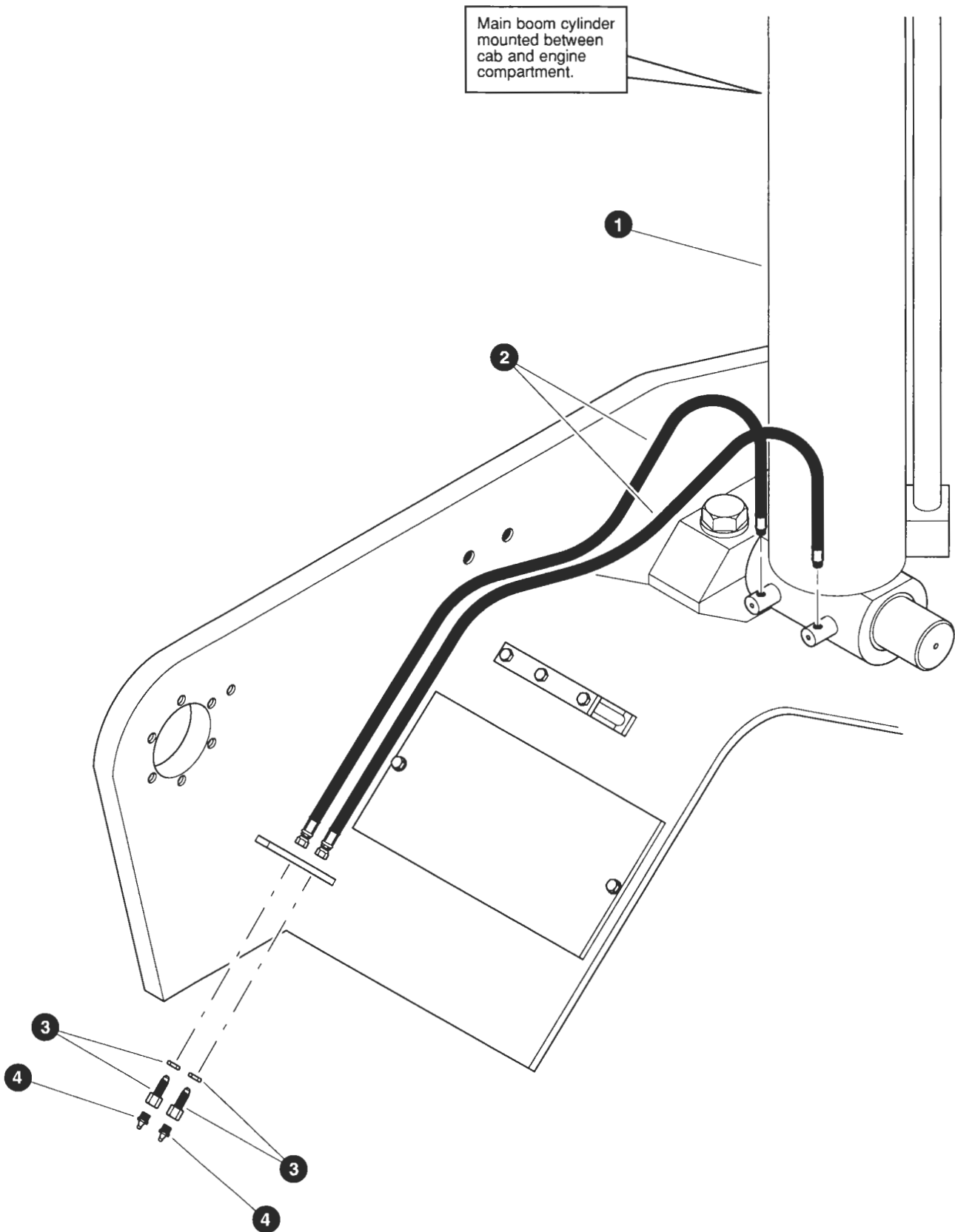
(Used on machines PDN# 045FWD and above)

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 (See note below)	
	12066	1		BLOCK, bottom	
	12067	1		BLOCK, top	
7	15543	2		BOLT - 1-1/4" x 5-1/2" (Torque to 900 ft.lbs. (1200 Nm))	
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.



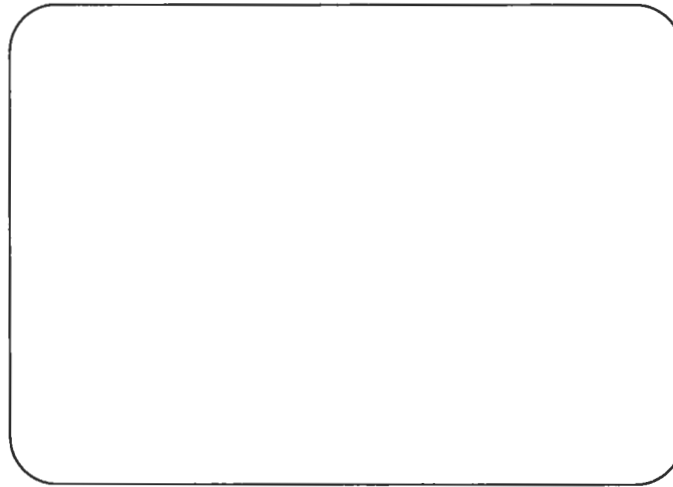
Parts 00046 04/23/96
25.00

MAIN BOOM (HOIST) CYLINDER GREASE LINES

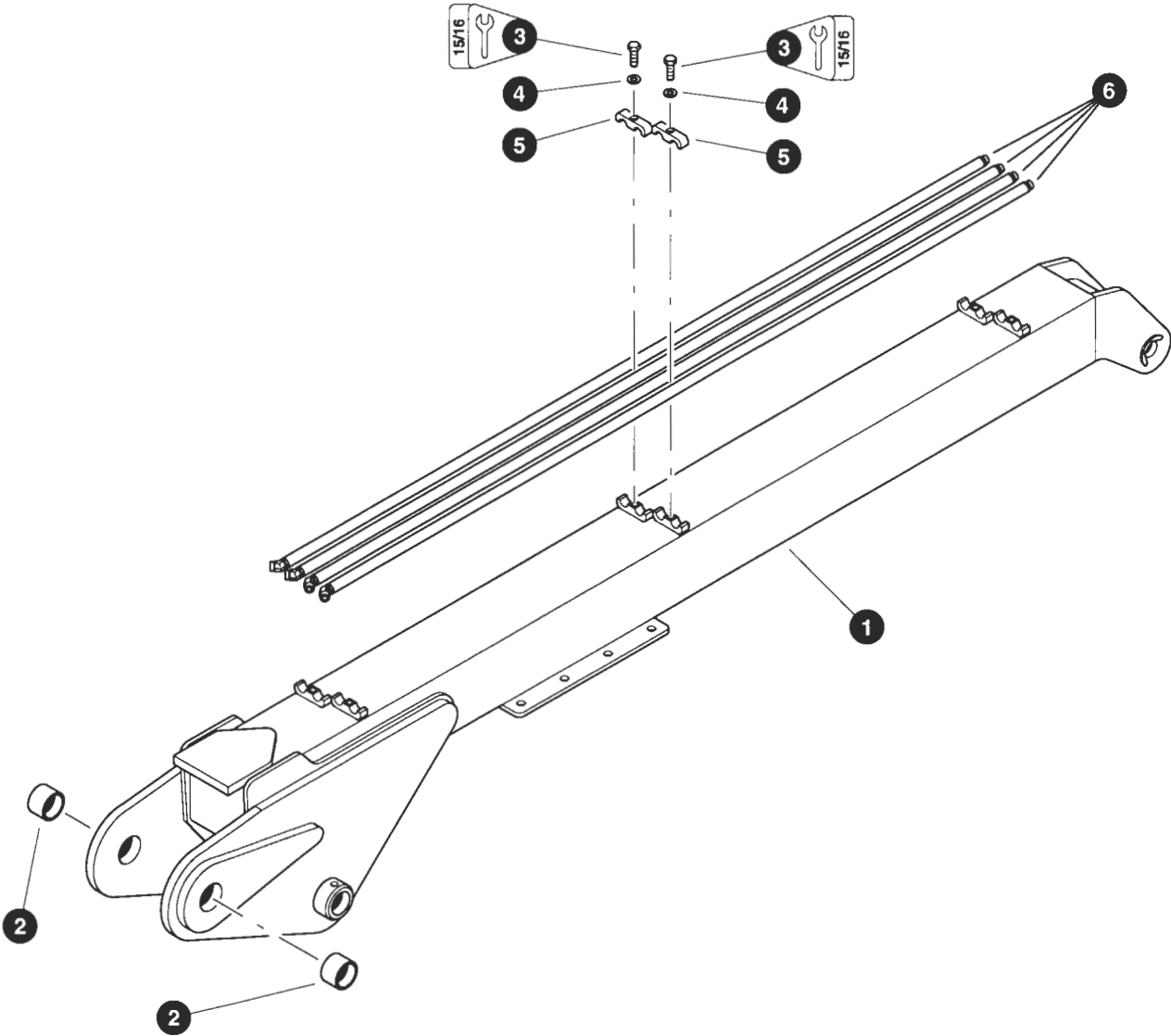
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN BOOM (HOIST) CYLINDER	E.2.2
2	17360	2		HOSE ASSEMBLY - 2044-04-04PS-04JS (Grease line from rear of upper turntable to base of main boom cylinder)	
3	15658	2		CONNECTOR, straight bulkhead - 2239-2-4S	
4	10704	2		FITTING, straight grease - 1/8" pipe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

✓ See referenced page for component or assembly breakdown.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Structural Components - Stick Boom



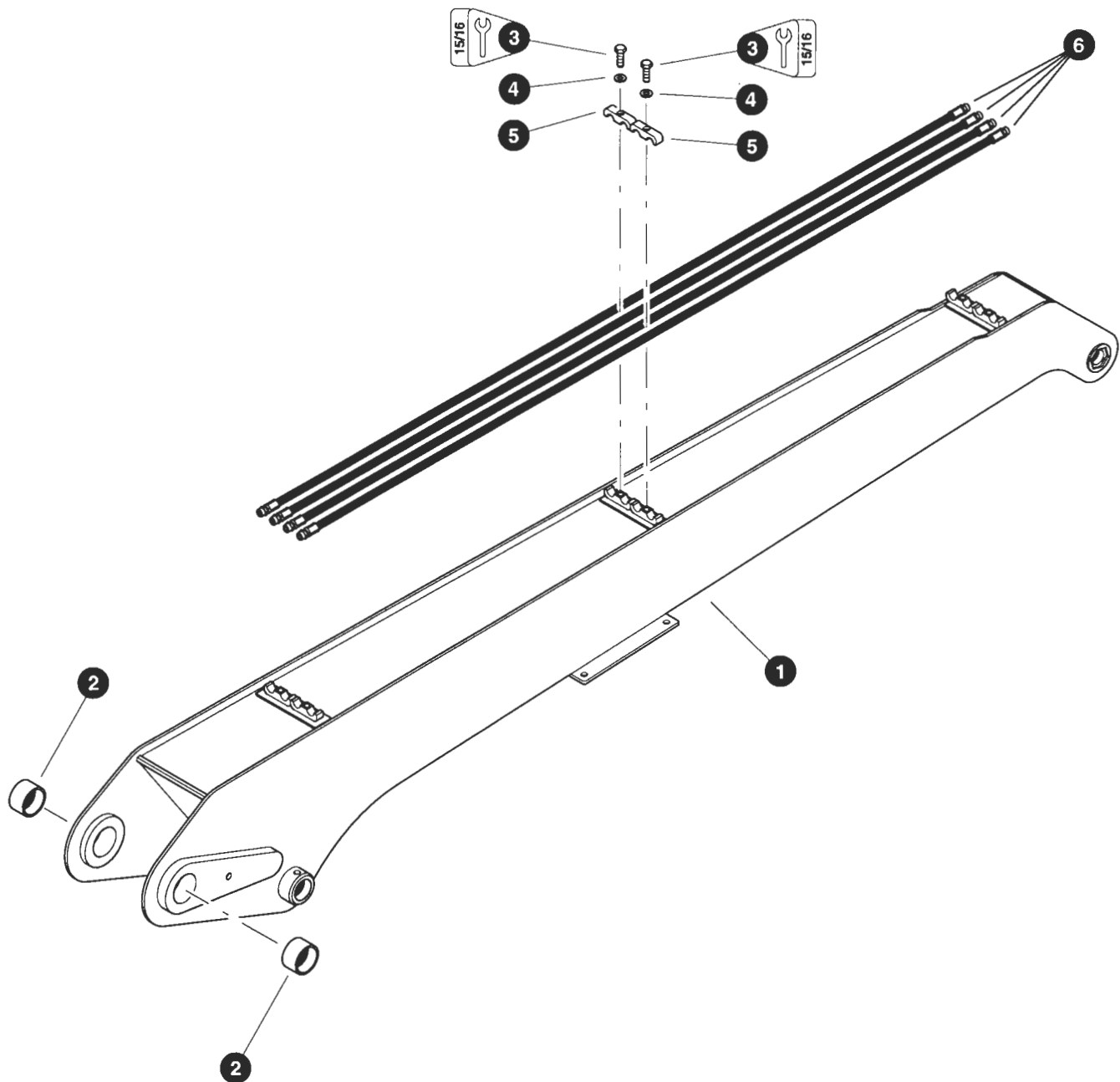
Parts 00185 01/08/97
9.375

STICK BOOM COMPONENTS (Tubular Design)

(Used on machines PDN# 044FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19327	1	☐	WELDMENT, stick boom	
2	18917	2		BUSHING - 2-1/2" 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	18932	4	☐	TUBELINE - 1/2" x 96"	
	15117	1		CONNECTOR, straight - FF1852T-0808S	
	19126	1		ELBOW, 45° - FF2068T-0808S	

- ☐ Kit or Assembly - includes all items indented underneath.



Parts 00526 04/06/98
9.375

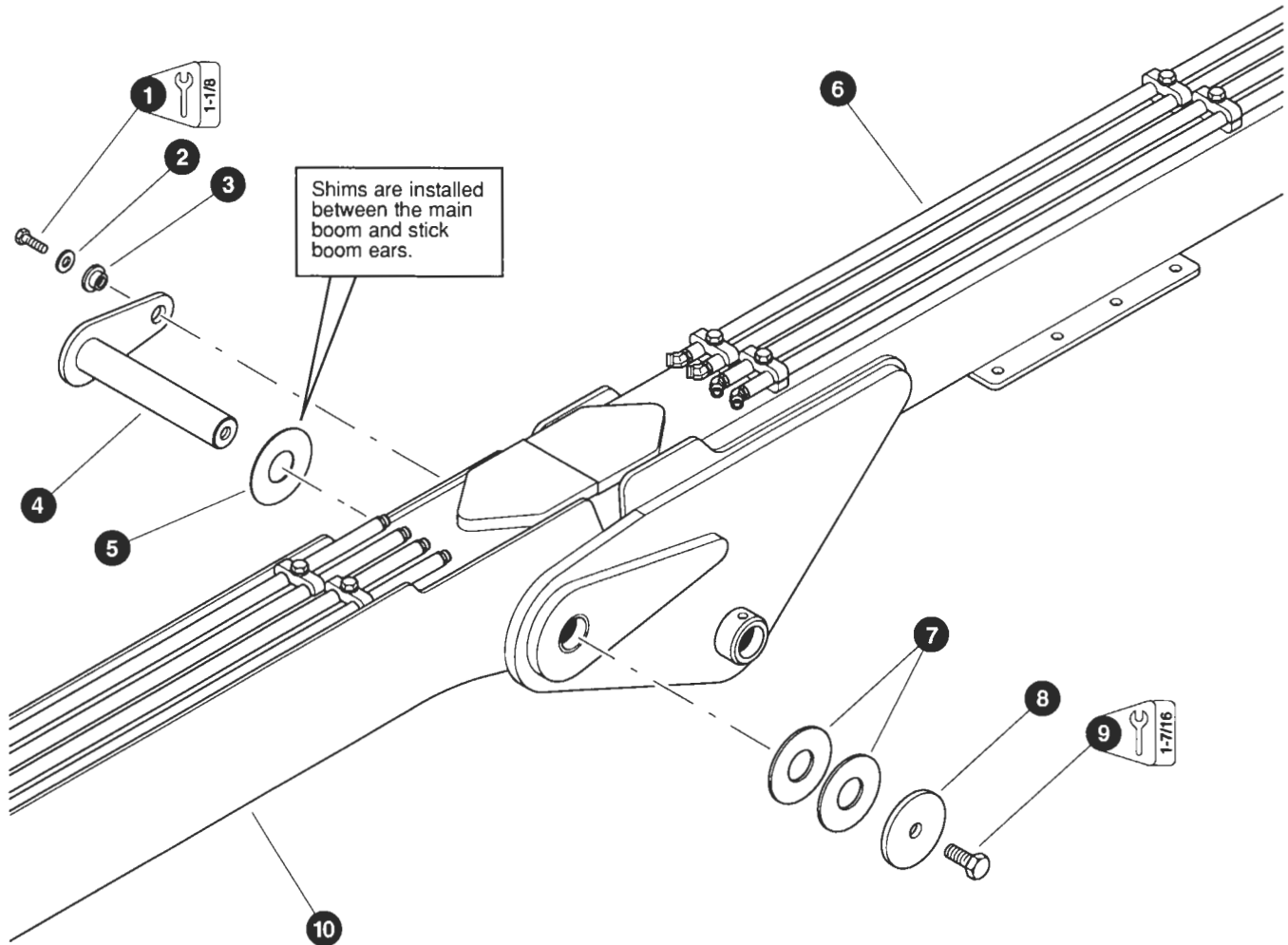
STICK BOOM COMPONENTS

(Welded Box Design)

(Used on machines PDN# 045FWD and above)

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.

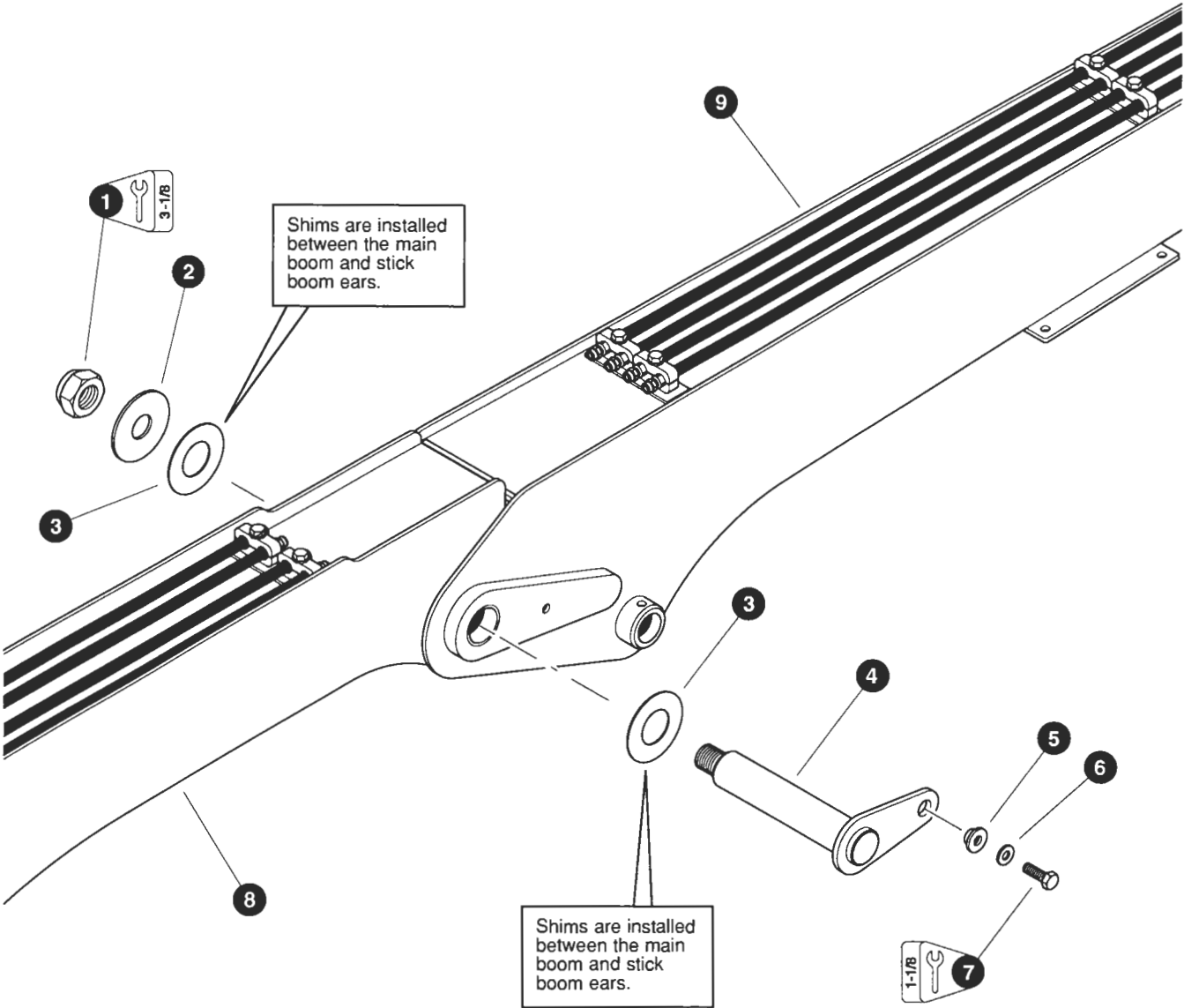


STICK BOOM INSTALLATION (Tubular Design)

(Used on machines PDN# 044FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15549	1		BOLT - 3/4" x 2"	
2	15550	1		WASHER, SAE flat - 3/4"	
3	18570	1		WASHER, pin retaining	
4	18916	1		PIN, boom knuckle - 2-1/2"	
5	19485	AR		SHIM - 7 gauge	
	19484	AR		SHIM - 14 gauge	
6	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2
7	19483	AR		SHIM	
8	14143	1		PLATE, pin retention	
9	15552	1		BOLT - 1" x 2-1/2"	
10	REF.	1	✓	MAIN BOOM ASSEMBLY	H.2.2

✓ See referenced page for component or assembly breakdown.

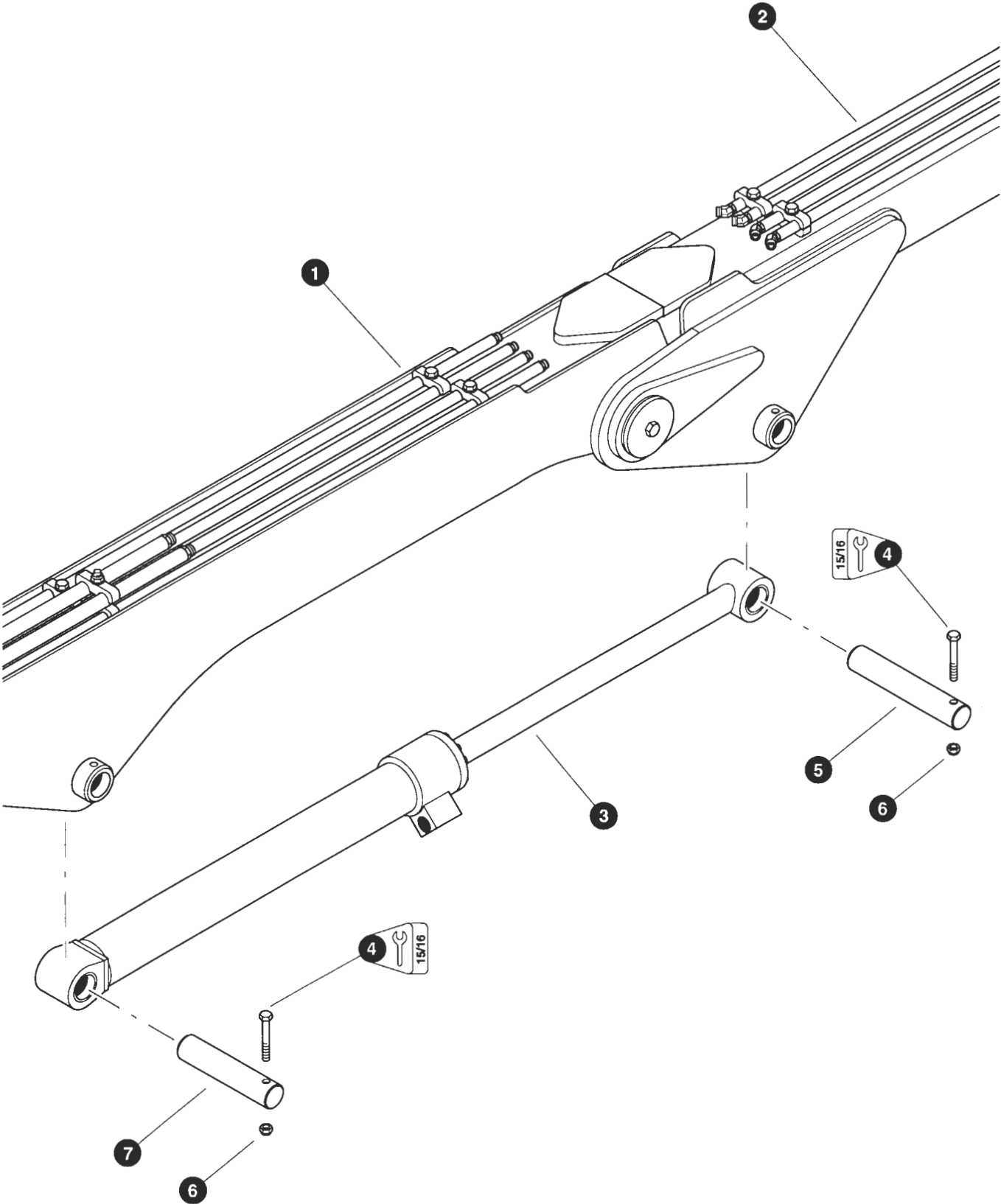


STICK BOOM INSTALLATION (Welded Box Design)

(Used on machines PDN# 045FWD and above)

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.



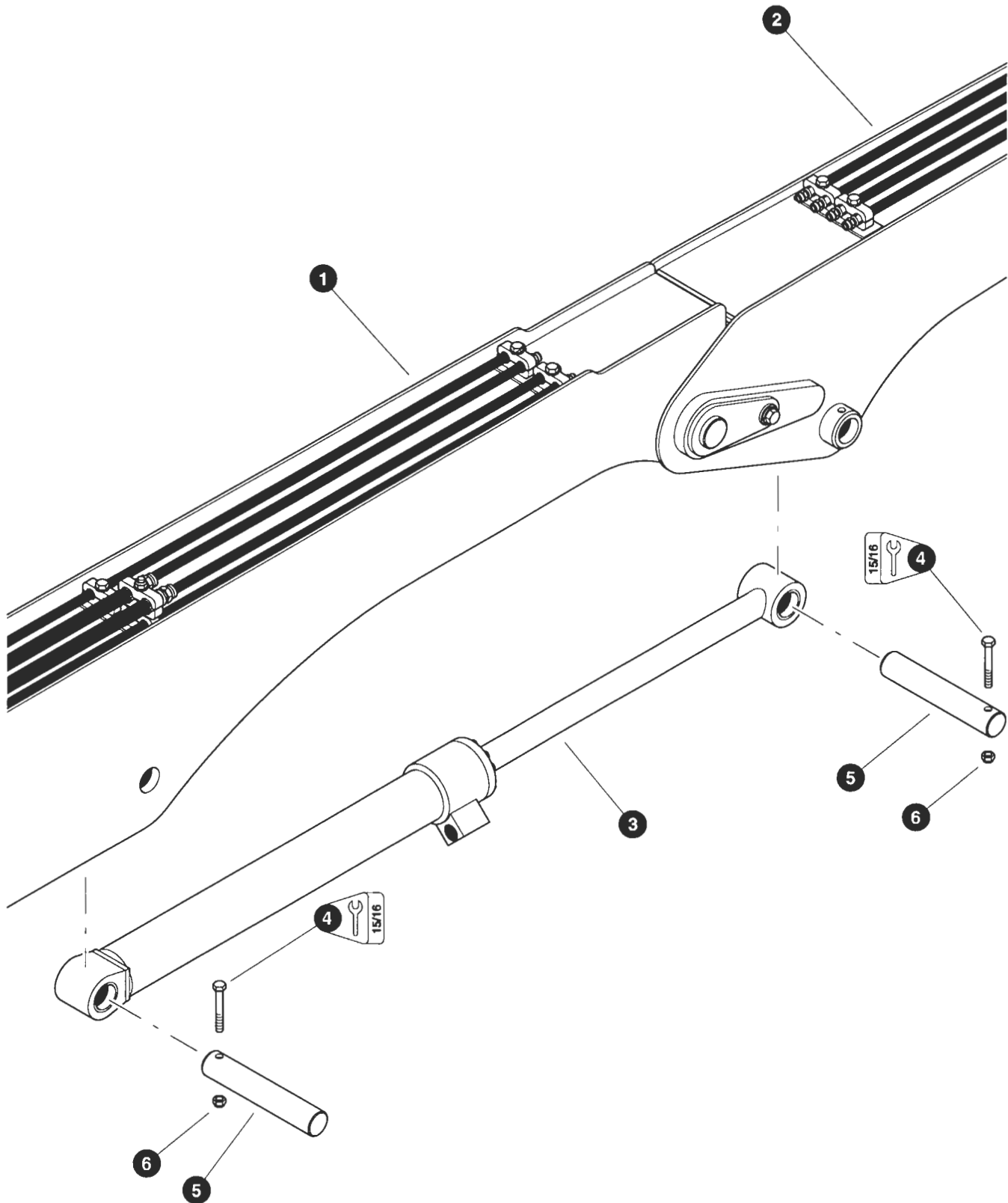
Parts 00186 01/08/97
12.50

STICK BOOM (JIB) CYLINDER INSTALLATION (Tubular Design)

(Used on machines PDN# 044FWD and below)

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	1		PIN, chromed - 2-1/2" x 13-1/2"	
6	15563	2		NUT, nylock - 5/8"	
7	18052	1		PIN, chromed - 2-1/2" x 11-1/4"	

✓ See referenced page for component or assembly breakdown.



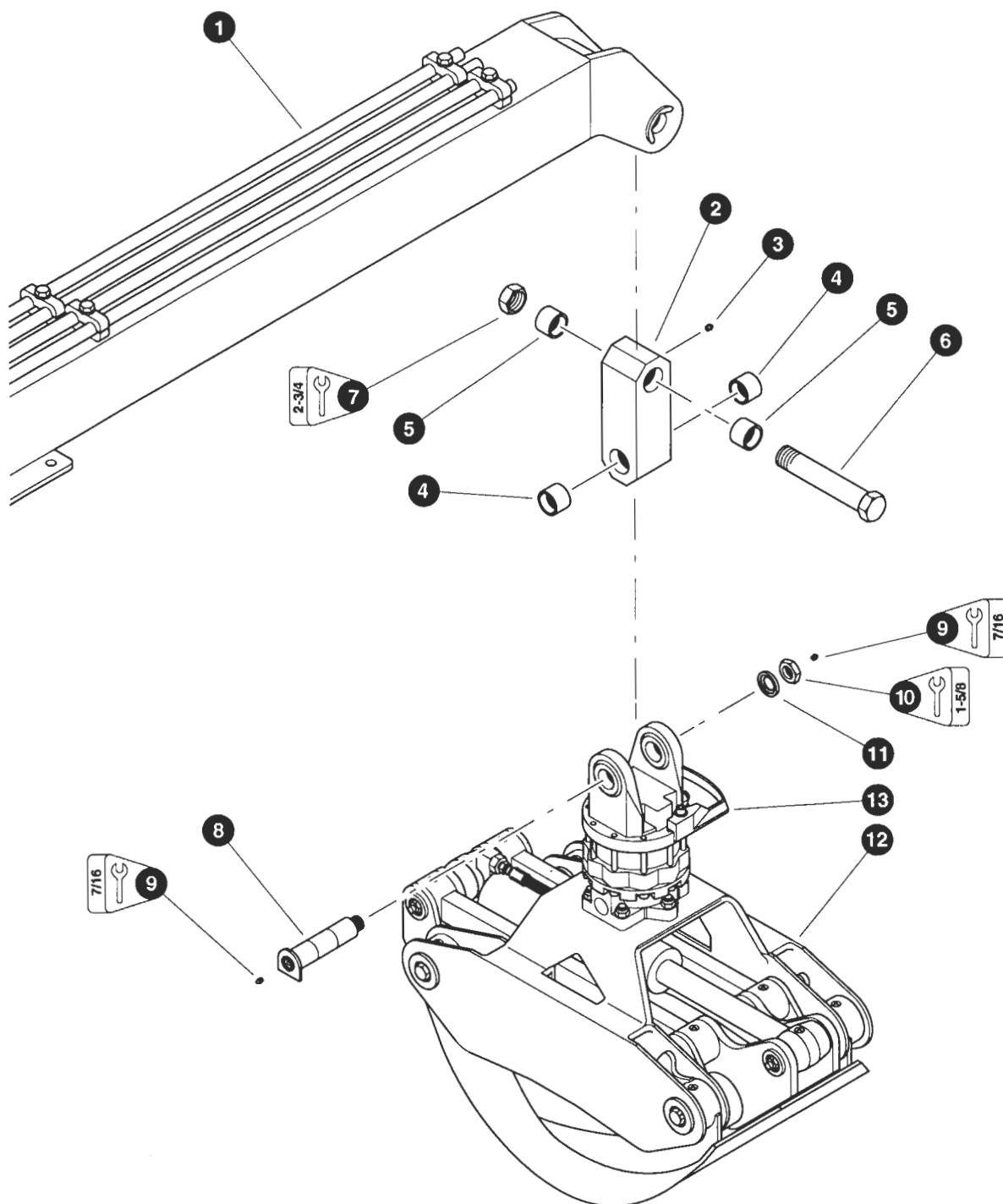
Parts 00528 04/06/98
12.50

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

(Used on machines PDN# 045FWD and above)

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.



Parts 00188 12/08/97
12.50

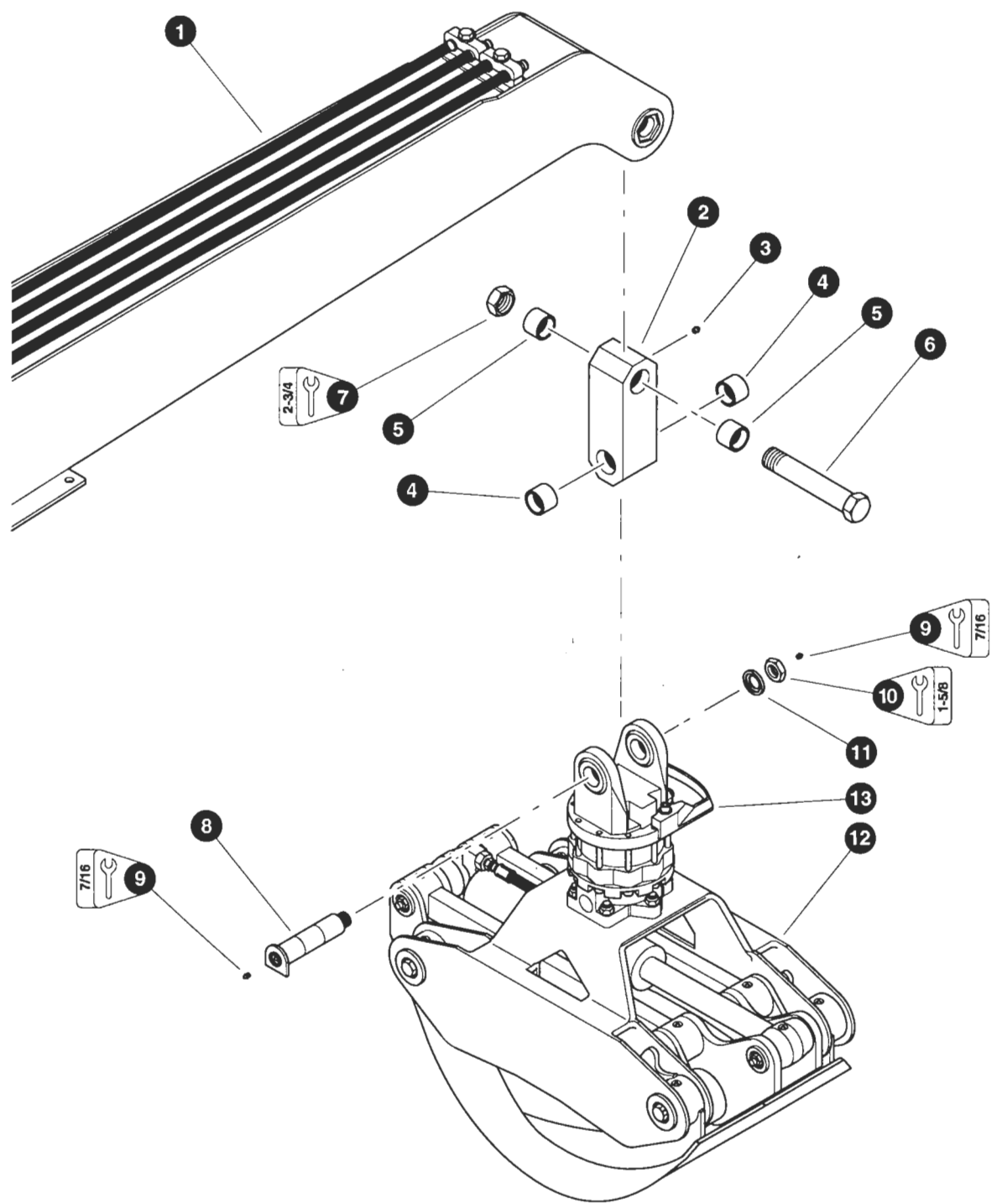
HULTDINS SUPERGRIP 360 GRAPPLE INSTALLATION

(With Standard TIMBCO Dangle Block and Hultdins GV11US Rotator)

(Used on machines PDN# 044FWD and below)

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	20204	1		PIN, grapple mount (GV11US rotator)	
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 360	Blue F
	REF.	1	□	GRAPPLE - Hultdins 360S	Blue F
13	REF.	1		ROTATOR - Hultdins GV11US	Blue F

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



Parts 00529 04/06/98
12.50

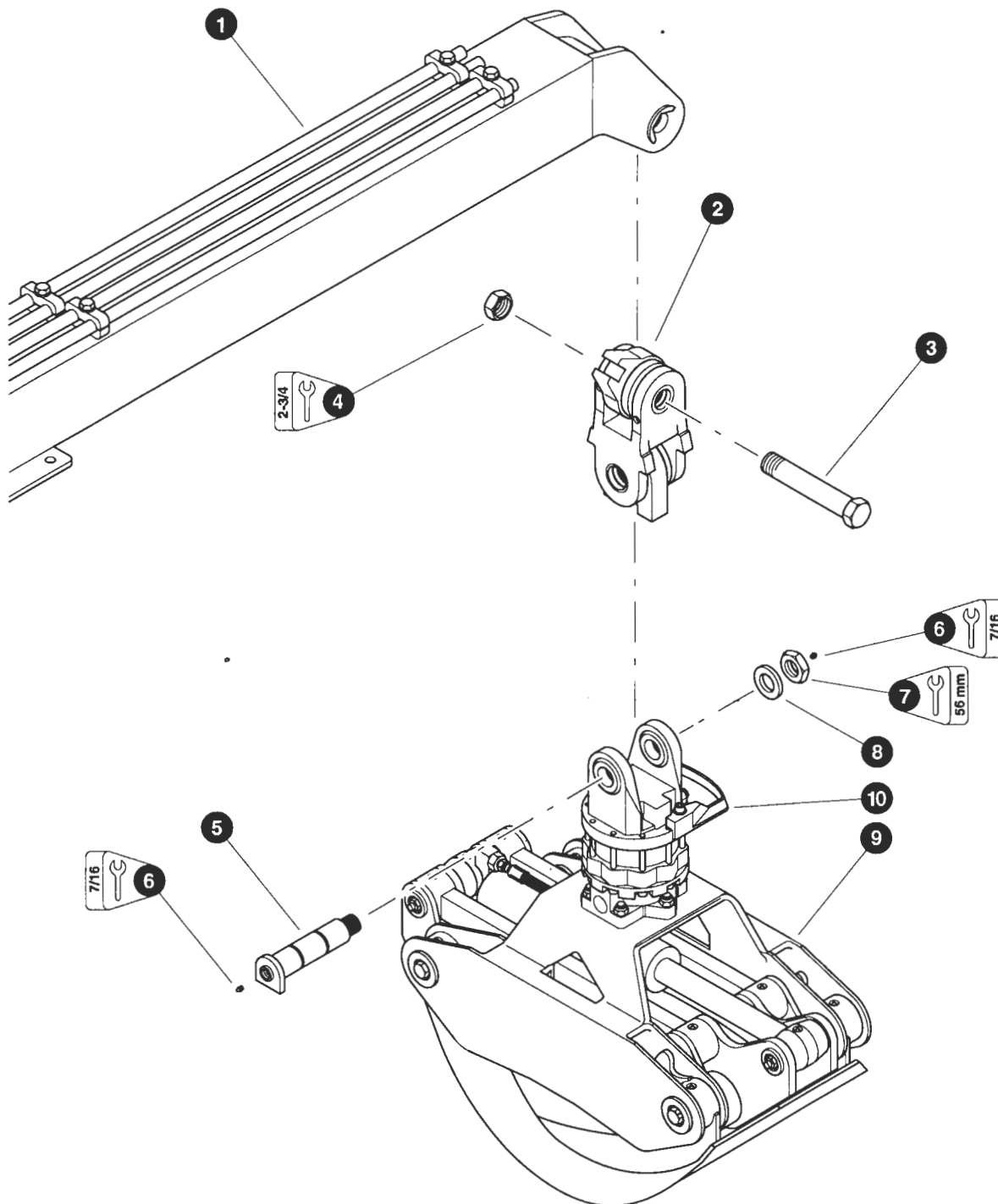
HULTDINS SUPERGRIP 360 GRAPPLE INSTALLATION

(With Standard TIMBCO Dangle Block and Hultdins GV11US Rotator)

(Used on machines PDN# 045FWD and above)

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	20204	1		PIN, grapple mount (GV11US rotator)	
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 360	Blue F
	REF.	1	□	GRAPPLE - Hultdins 360S	Blue F
13	REF.	1		ROTATOR - Hultdins GV11US	Blue F

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



Parts 00326 12/19/97
12.50

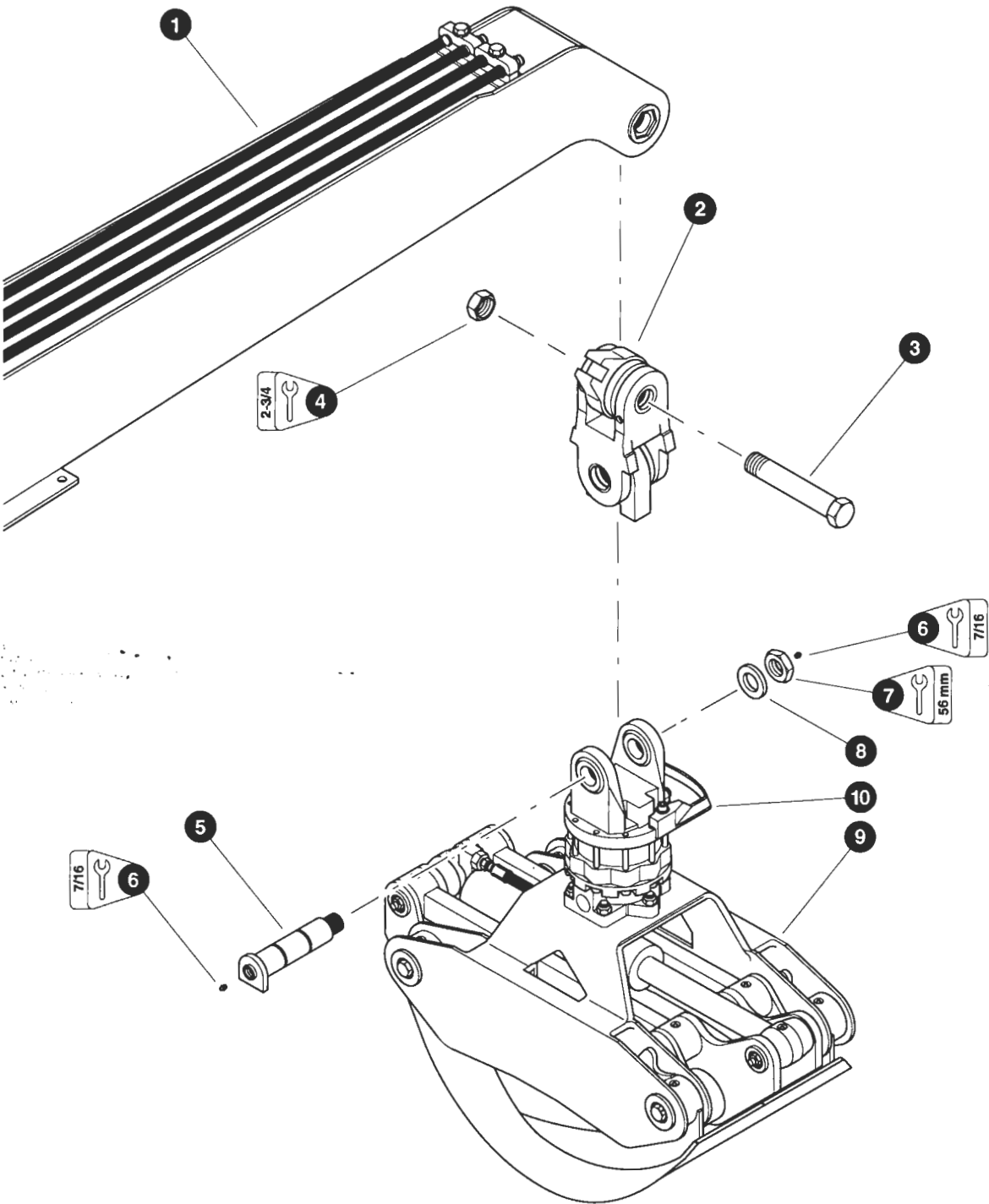
HULTDINS SUPERGRIP 360S GRAPPLE INSTALLATION

(With Optional QUADCO Snubber and Hultdins GV15US Rotator)

(Used on machines PDN# 044FWD and below)

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 (GV15US rotator)	
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 GV15US	

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



Parts 00530 04/06/98
12.50

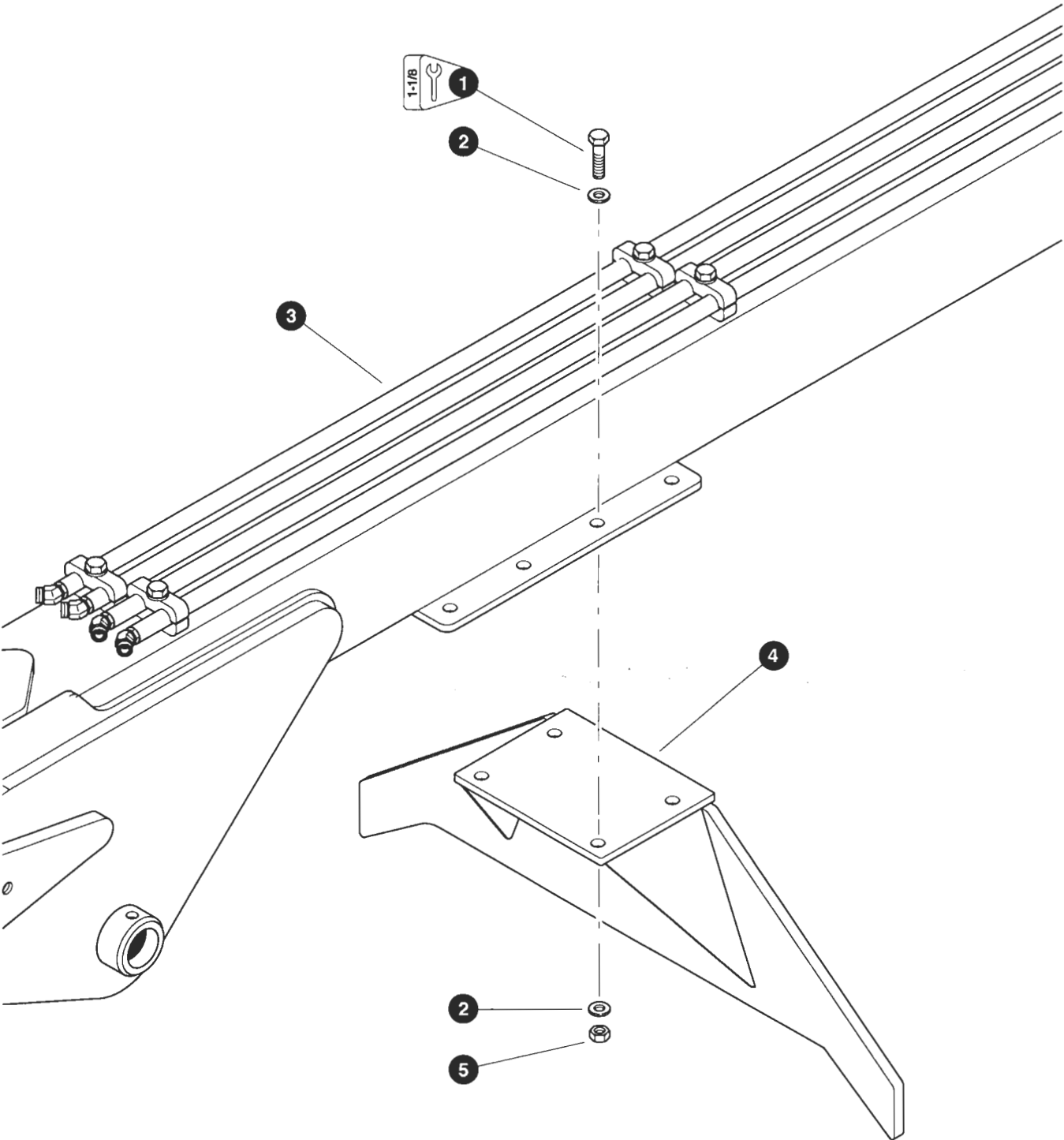
HULTDINS SUPERGRIP 360S GRAPPLE INSTALLATION

(With Optional QUADCO Snubber and Hultdins GV15US Rotator)

(Used on machines PDN# 045FWD and above)

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 (GV15US rotator)	
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 GV15US	

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



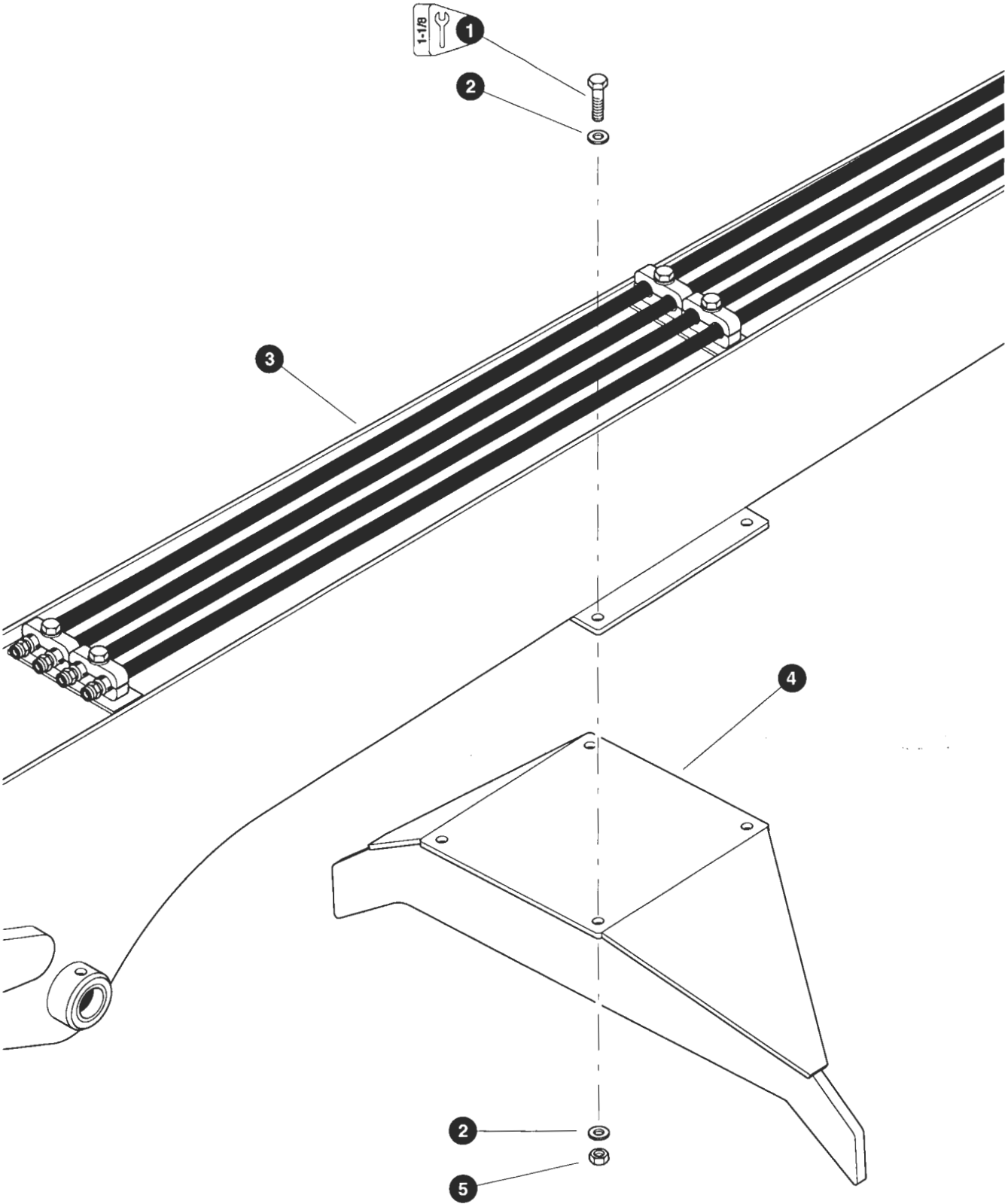
Parts 00181 01/02/97
25.00

OPTIONAL STICK BOOM MOUNTED HEEL
(Tubular Design)

(Used on machines PDN# 044FWD and below)

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	80233	1		WELDMENT, stick boom heel	
5	10815	4		NUT, lock - 1/2"	

✓ See referenced page for component or assembly breakdown.



OPTIONAL STICK BOOM MOUNTED HEEL (Welded Box Design)

(Used on machines PDN# 045FWD and above)

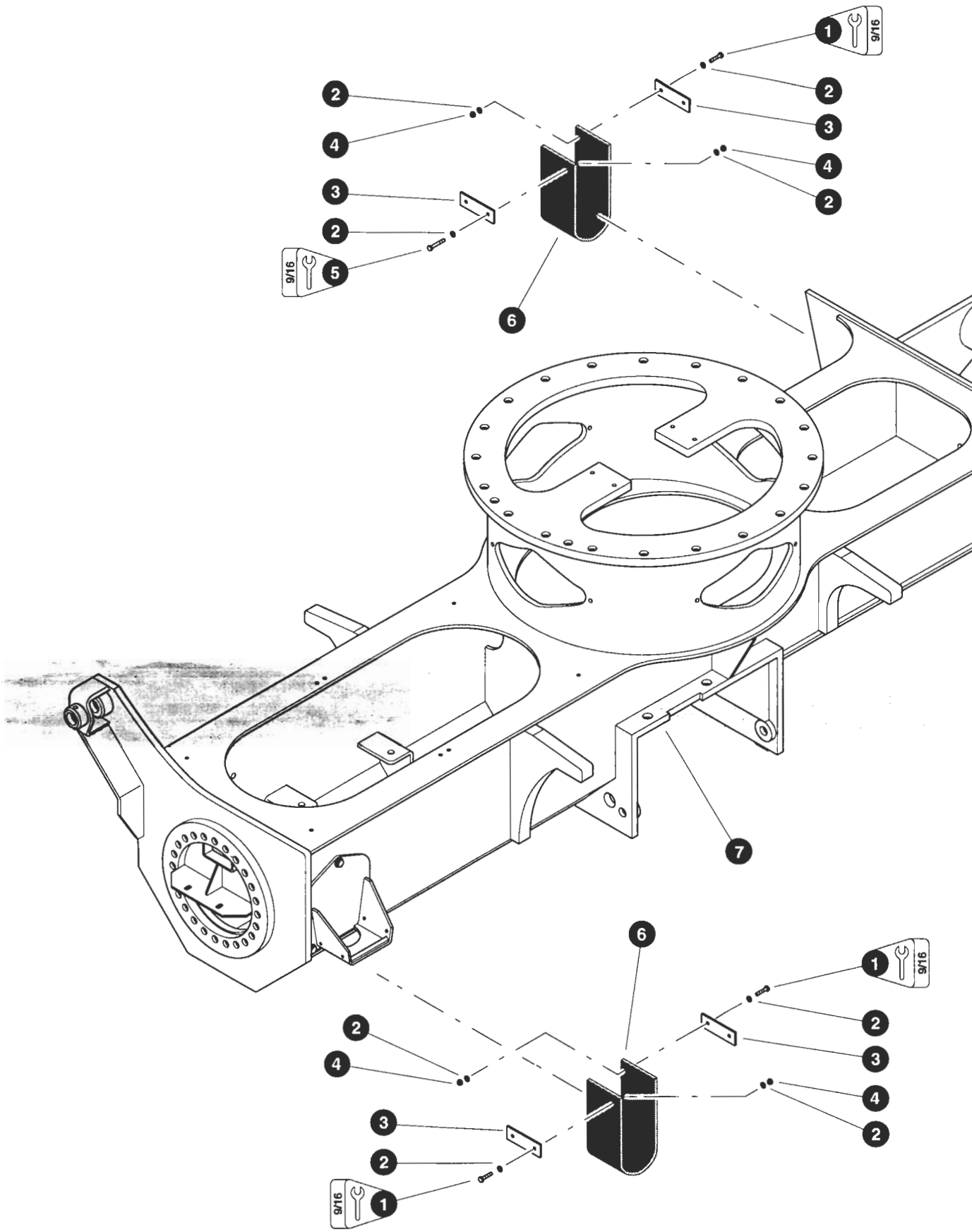
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	10736	4		BOLT - 1/2" x 2"	
2	15534	8		WASHER, SAE flat - 1/2"	
3	REF.	1	✓	STICK BOOM ASSEMBLY	H.3.2
4	20858	1		WELDMENT, stick boom heel	
5	10815	4		NUT, lock - 1/2"	

✓ See referenced page for component or assembly breakdown.

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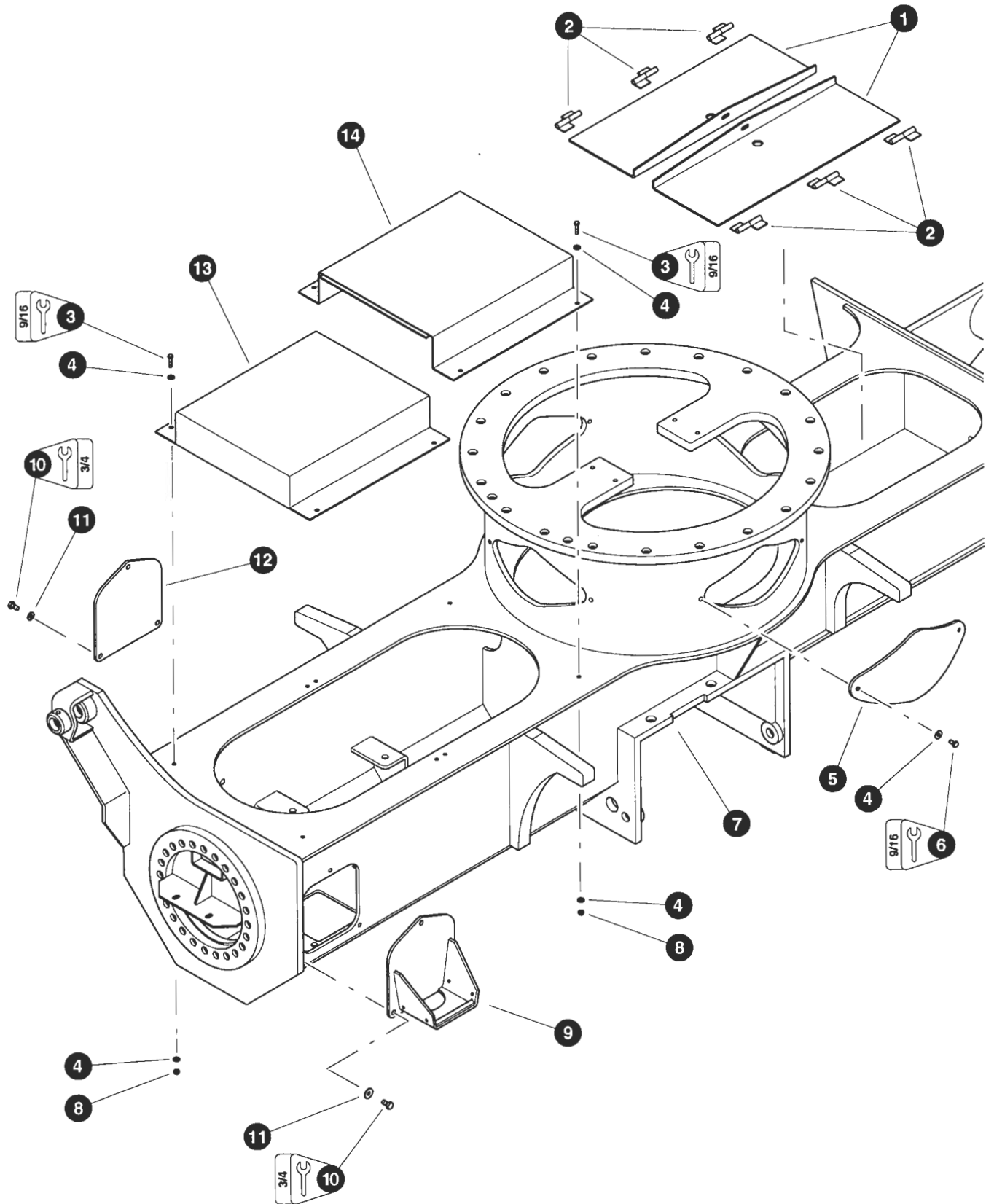
Structural Components - Front Frame



Parts 00495 03/15/98
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	



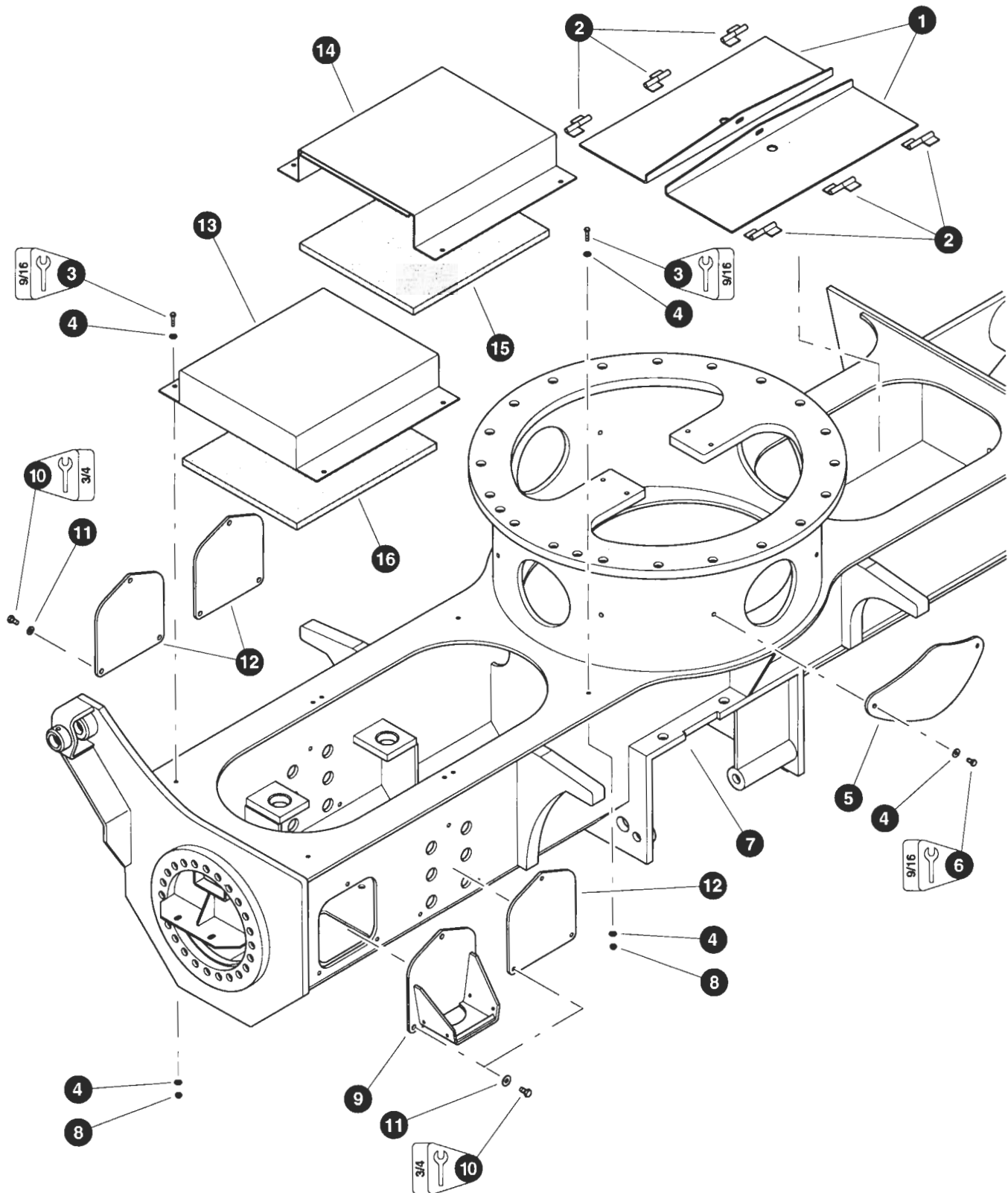
Parts 00496 04/14/98
9.375

FRONT FRAME ACCESS COVERS (Upper Frame Area)

(Used on machines PDN# 052FWD and below)

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 (With step)	
10	10783	6		BOLT - 1/2" x 1"	
11	15534	14		WASHER, SAE flat - 1/2"	
12	80317	1		COVER, access - frame side (Without step)	
13	20213	1		COVER, access - rear drive motor	
14	20212	1		COVER, access - front drive motor	

✓ See referenced page for component or assembly breakdown.



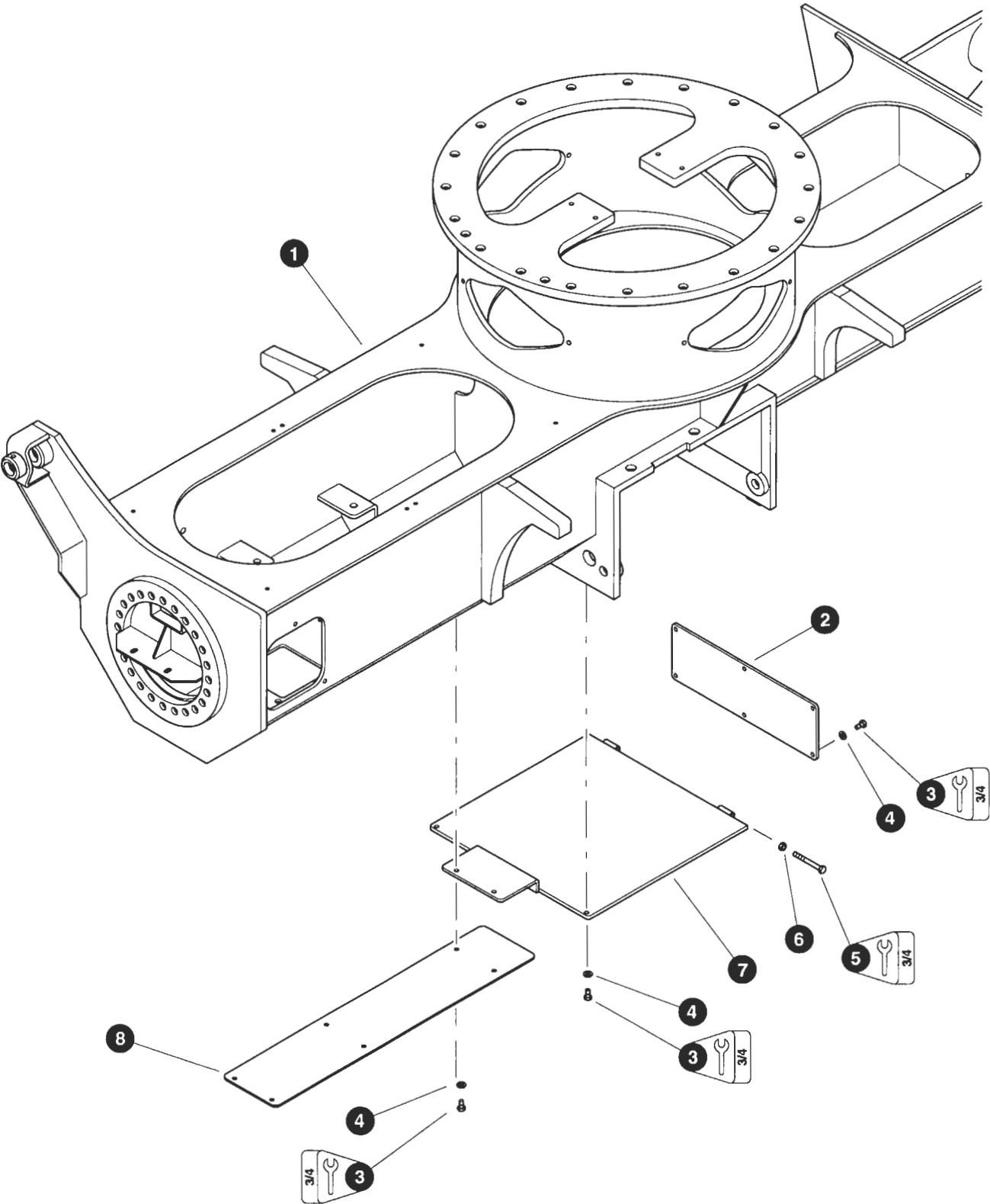
Parts 00573 06/01/98
9.375

FRONT FRAME ACCESS COVERS (Upper Frame Area)

(Used on machines PDN# 053FWD and above)

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 (With step)	
10	10783	12	BOLT - 1/2" x 1"	
11	15528	26	WASHER, SAE flat - 1/2"	
12	80317	3	COVER, access - frame side (Without step)	
13	20213	1	COVER, access - rear drive motor	
14	20212	1	COVER, access - front drive motor	

✓ See referenced page for component or assembly breakdown.

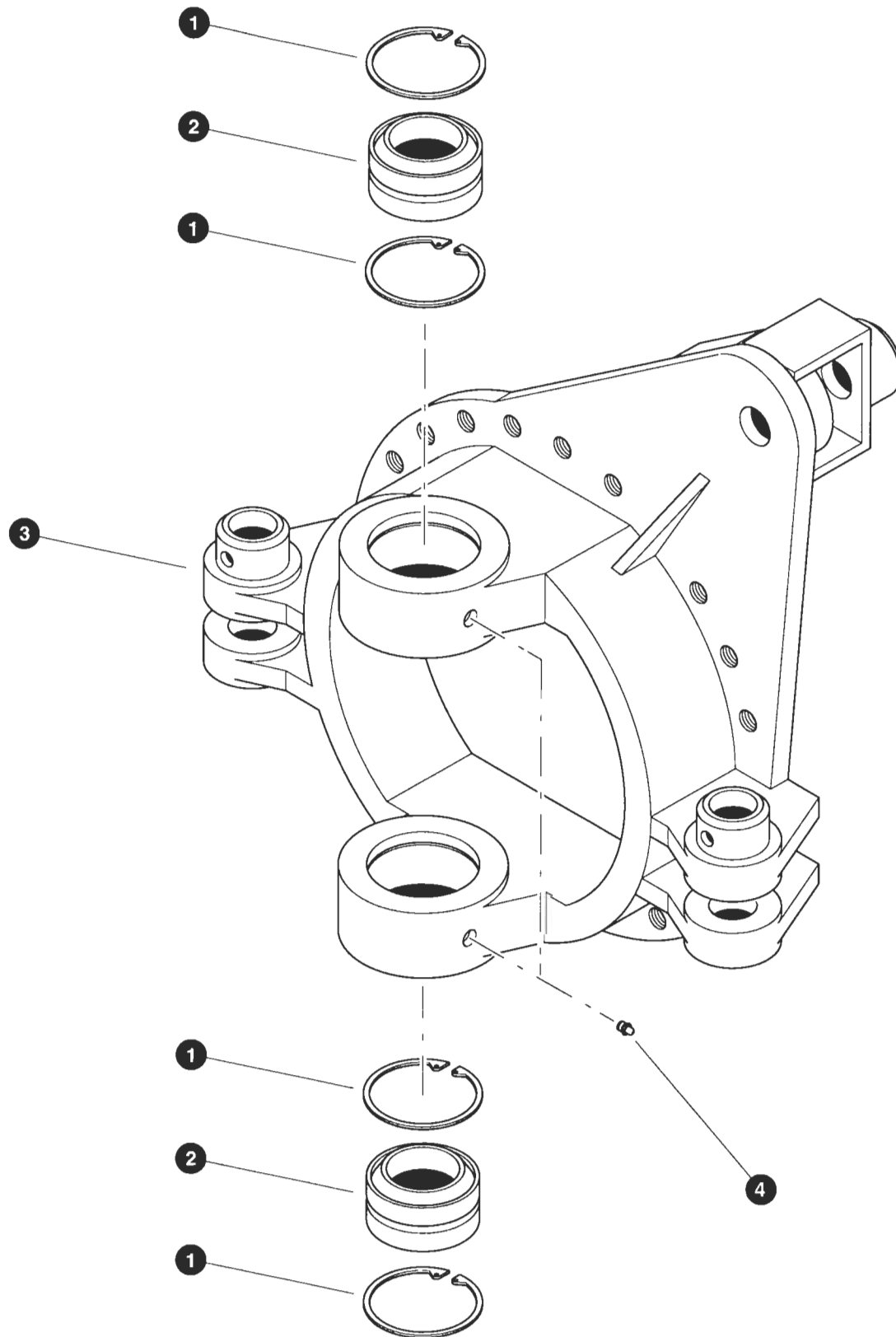


Parts 00497 04/15/98
9.375

FRONT FRAME ACCESS COVERS (Lower Frame Area)

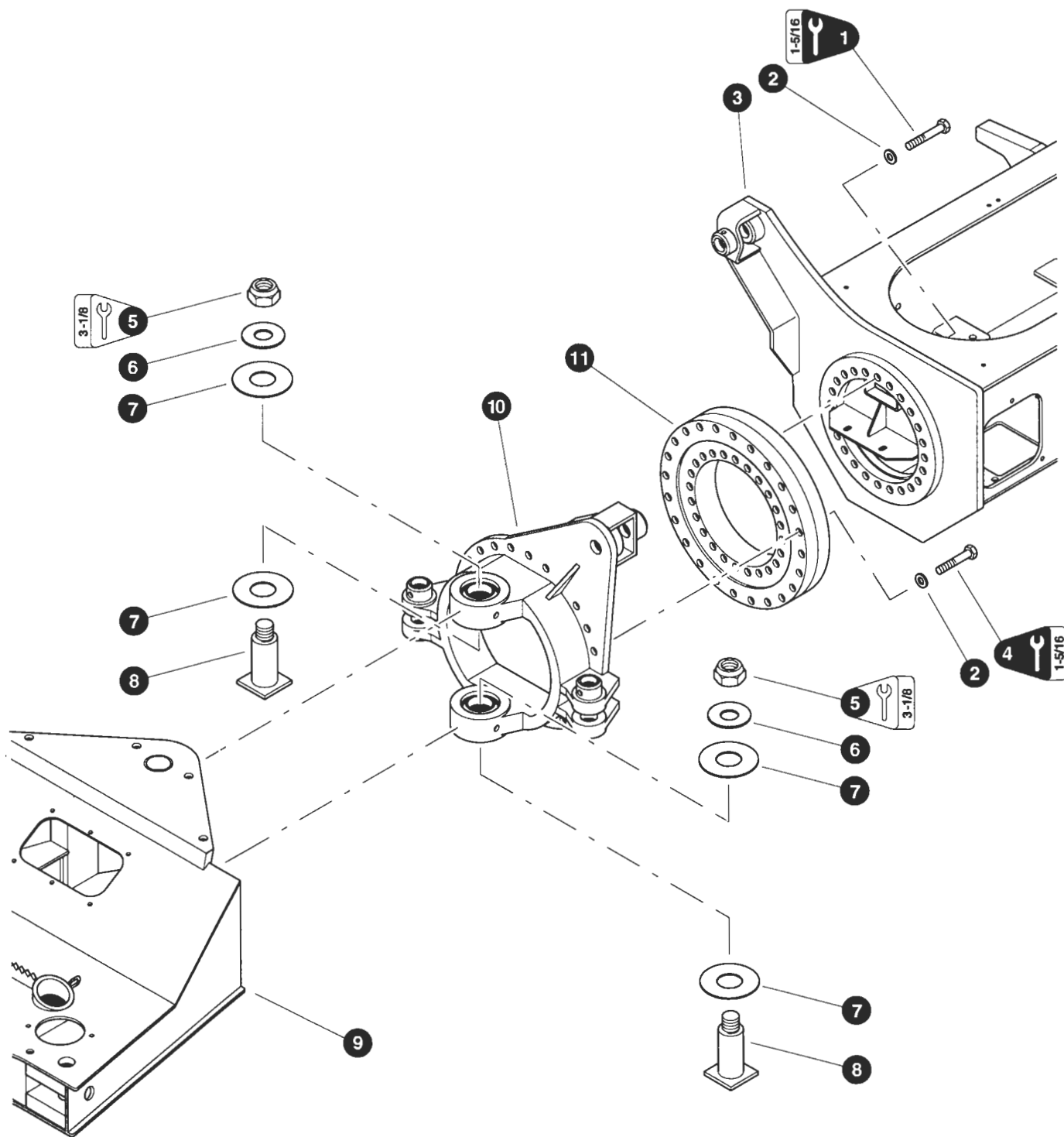
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FRONT FRAME WELDMENT	H.4.2
2	80316	1		COVER, access - axle box	
3	10783	14		BOLT - 1/2" x 1"	
4	15534	14		WASHER, SAE flat - 1/2"	
5	10835	2		BOLT - 1/2" x 4-1/2"	
6	10815	2		NUT, lock - 1/2"	
7	19817	1		COVER, access - front frame axle	
8	80329	1		COVER,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

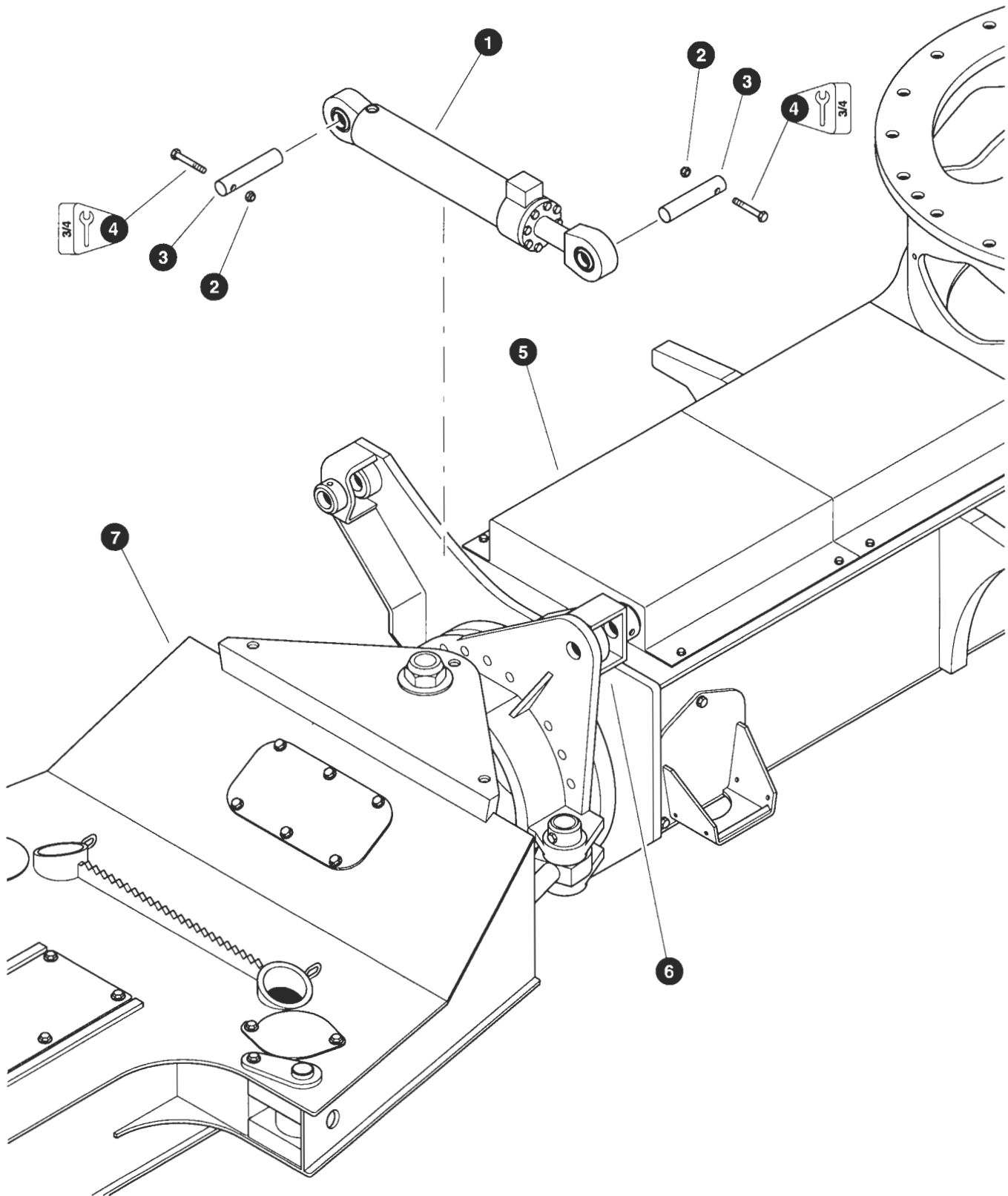


Parts 00498 03/15/98
9.375

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 (Brass)	
	19487	AR		WASHER, thrust - thick (Brass)	
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

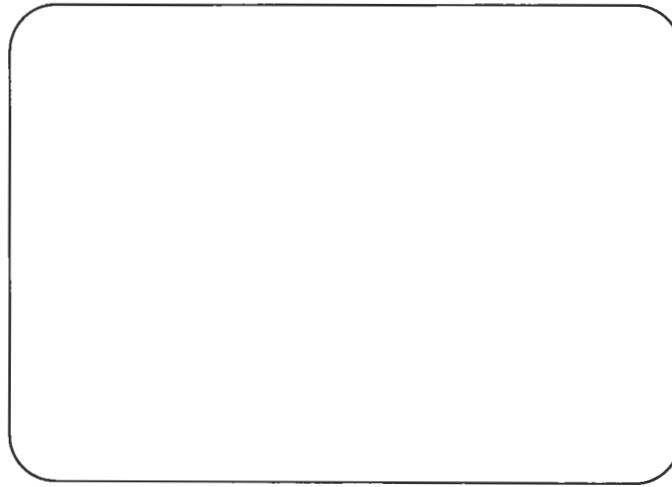
FRAME LOCK CYLINDER INSTALLATION

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

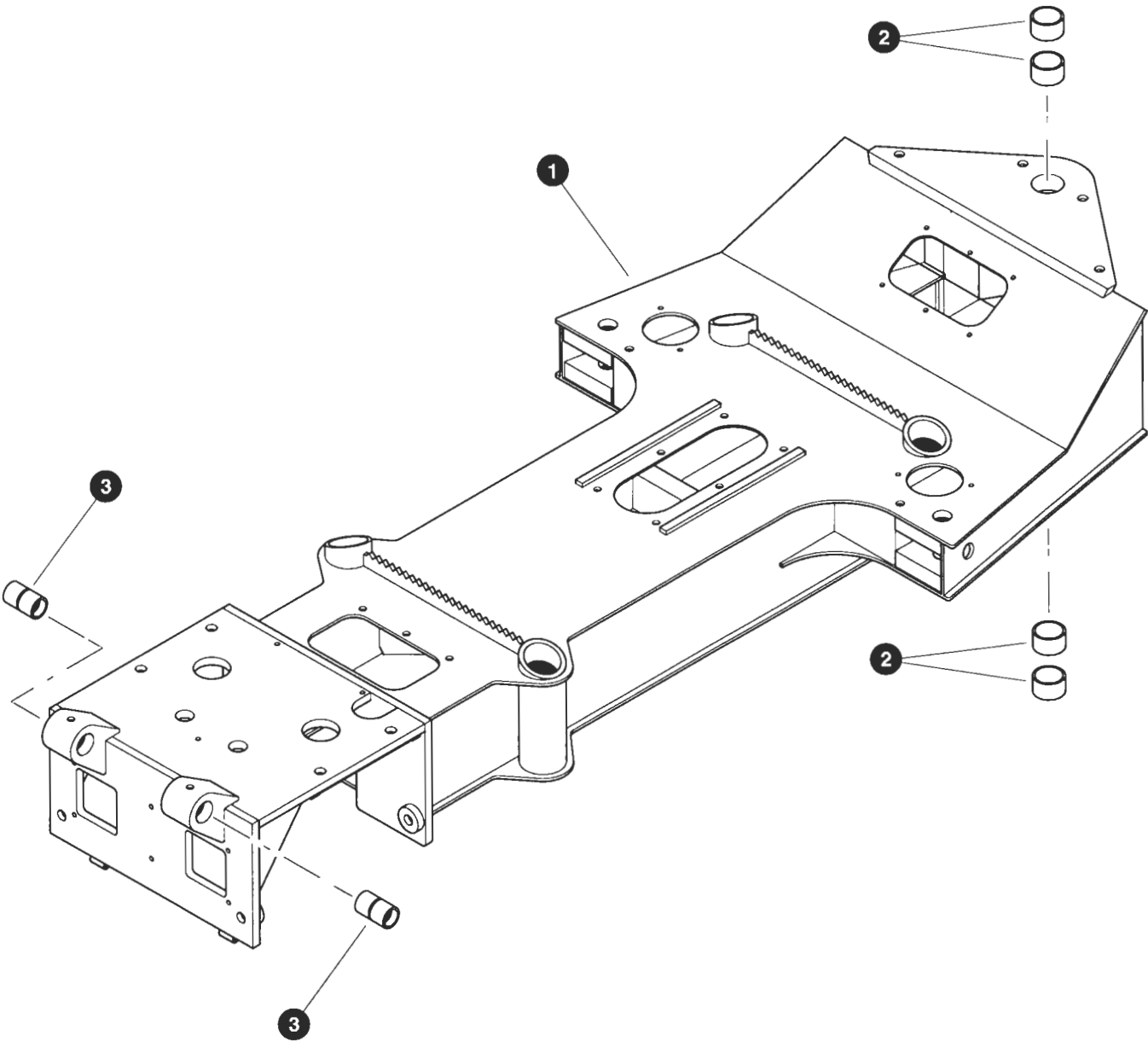
✓ See referenced page for component or assembly breakdown.

THIS PAGE LEFT BLANK FOR NOTES

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal black lines across the entire width of the page, typical of standard notebook or legal stationery. The background is a uniform off-white color, and there are no margins, text, or other markings present.



Structural Components - Rear Frame

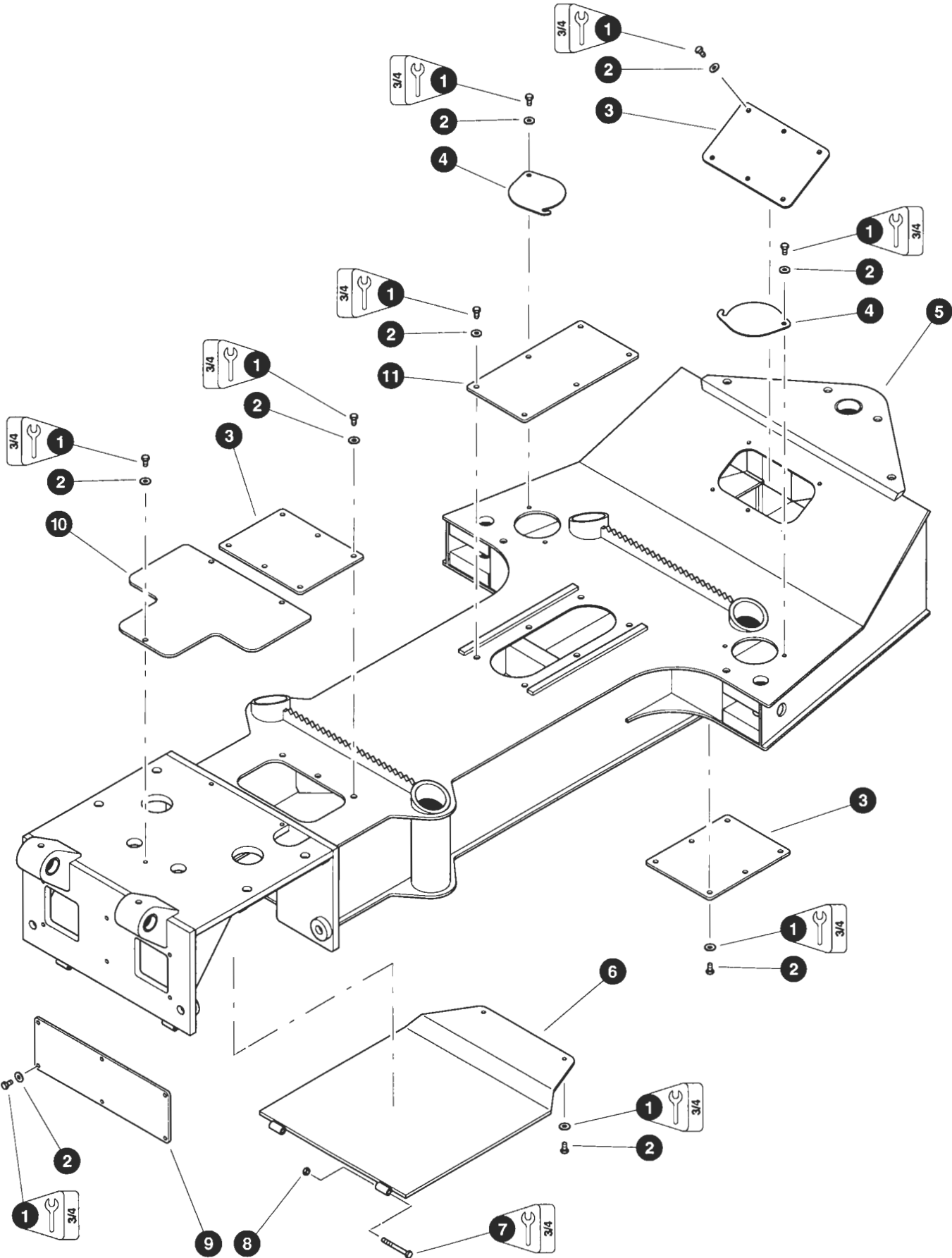


Parts 00500 03/16/98
9.375

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.

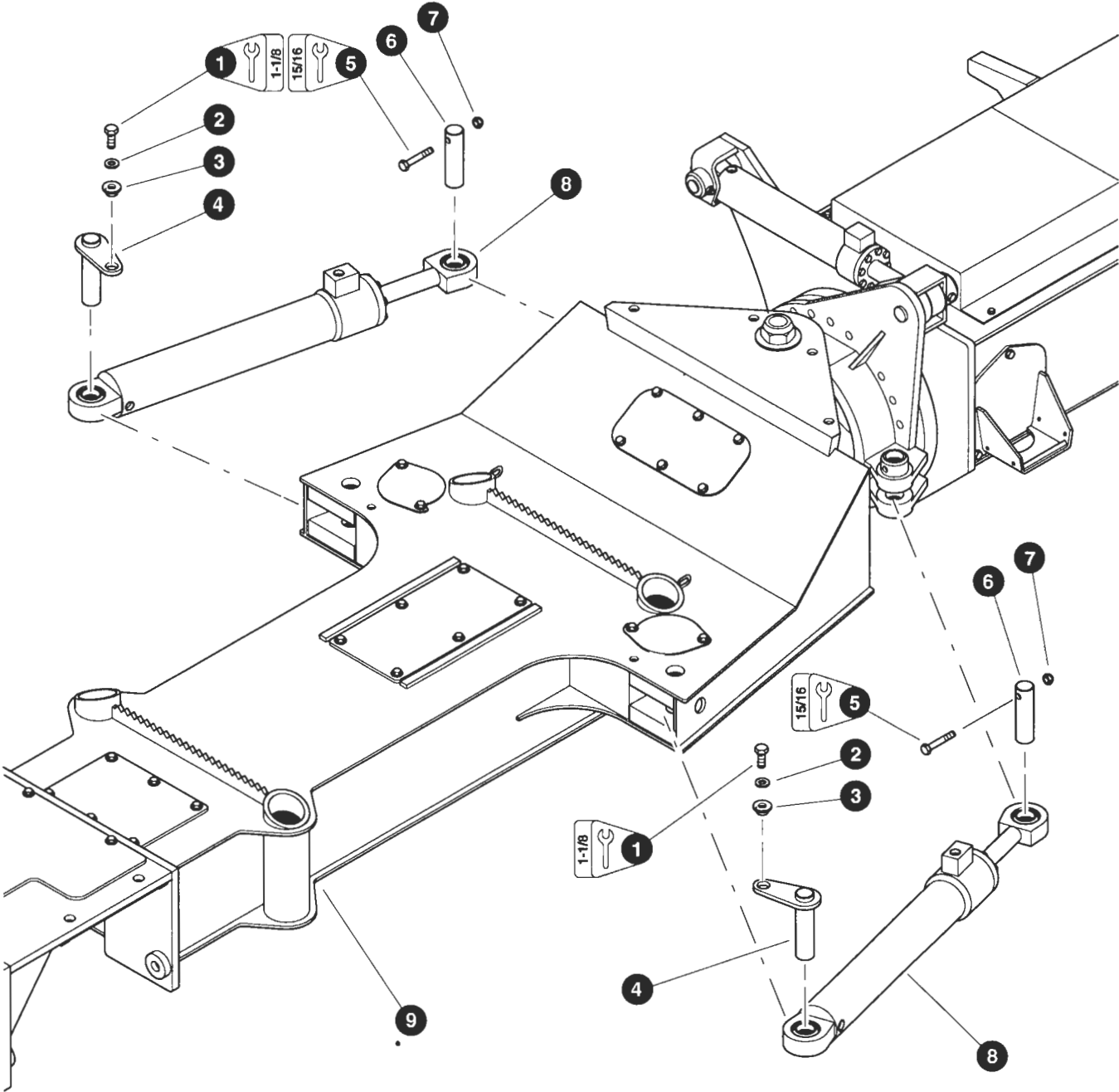


Parts 00501 04/16/98
9.375

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 (Lower)	
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 (Upper)	
11	19394	1		COVER, access - driveshaft	

✓ See referenced page for component or assembly breakdown.

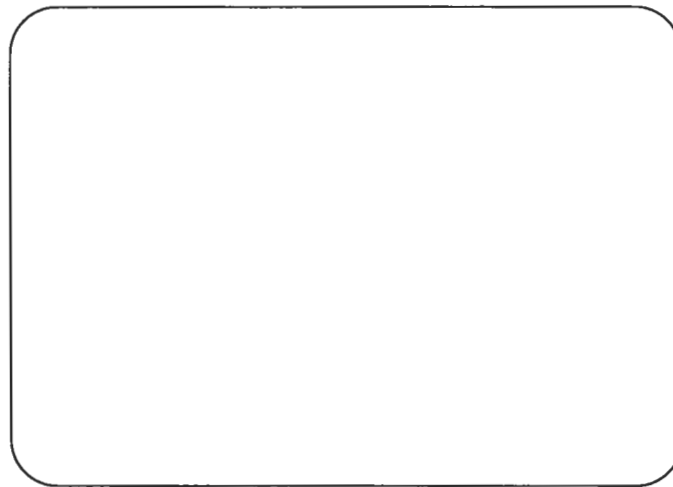


STEER CYLINDER INSTALLATION

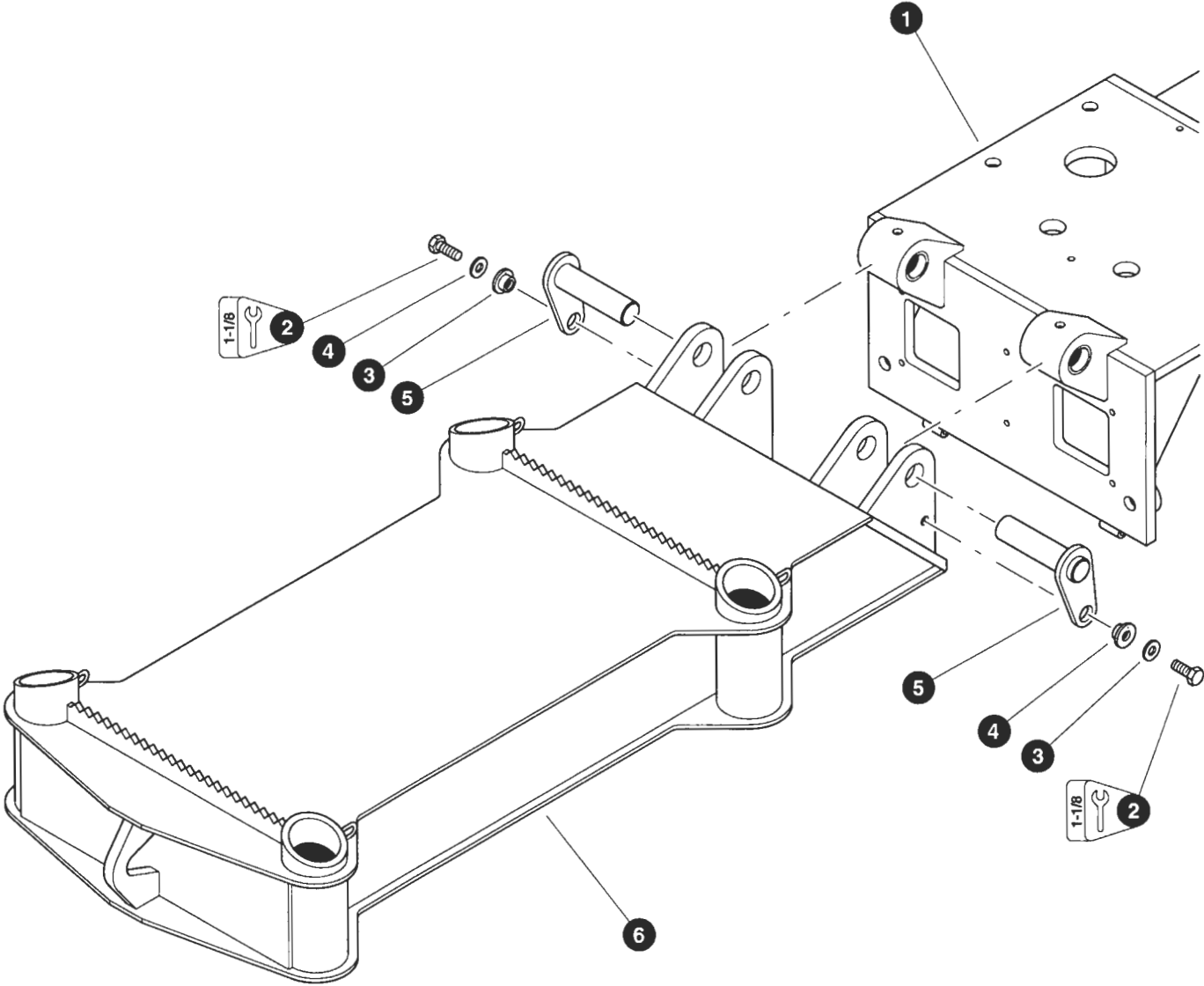
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	15549	2		BOLT - 3/4" x 2"	
2	15550	2		WASHER, SAE flat - 3/4"	
3	18570	2		WASHER, pin retaining	
4	19210	2		PIN, steer cylinder mounting - base	
5	10719	2		BOLT - 5/8" x 4"	
6	19448	2		PIN, steer cylinder mounting - rod	
7	15563	2		NUT, nylock - 5/8"	
8	REF.	2	✓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

✓ See referenced page for component or assembly breakdown.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface. There is no handwriting or other markings on the paper.



Structural Components - Floating Bunk, Log Stakes & Log Rack

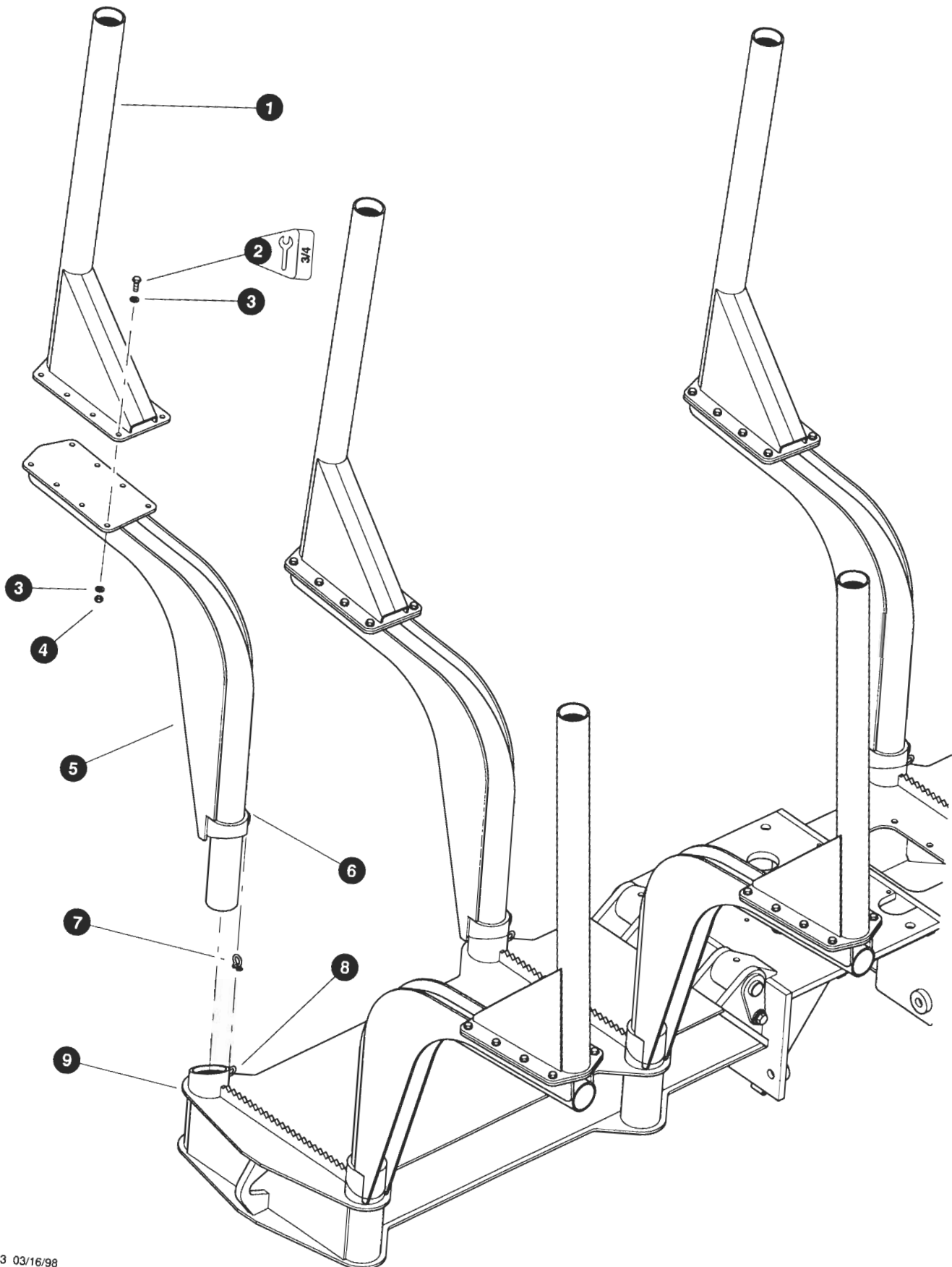


Parts 00505 03/16/98
12.50

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 00503 03/16/98
9.375

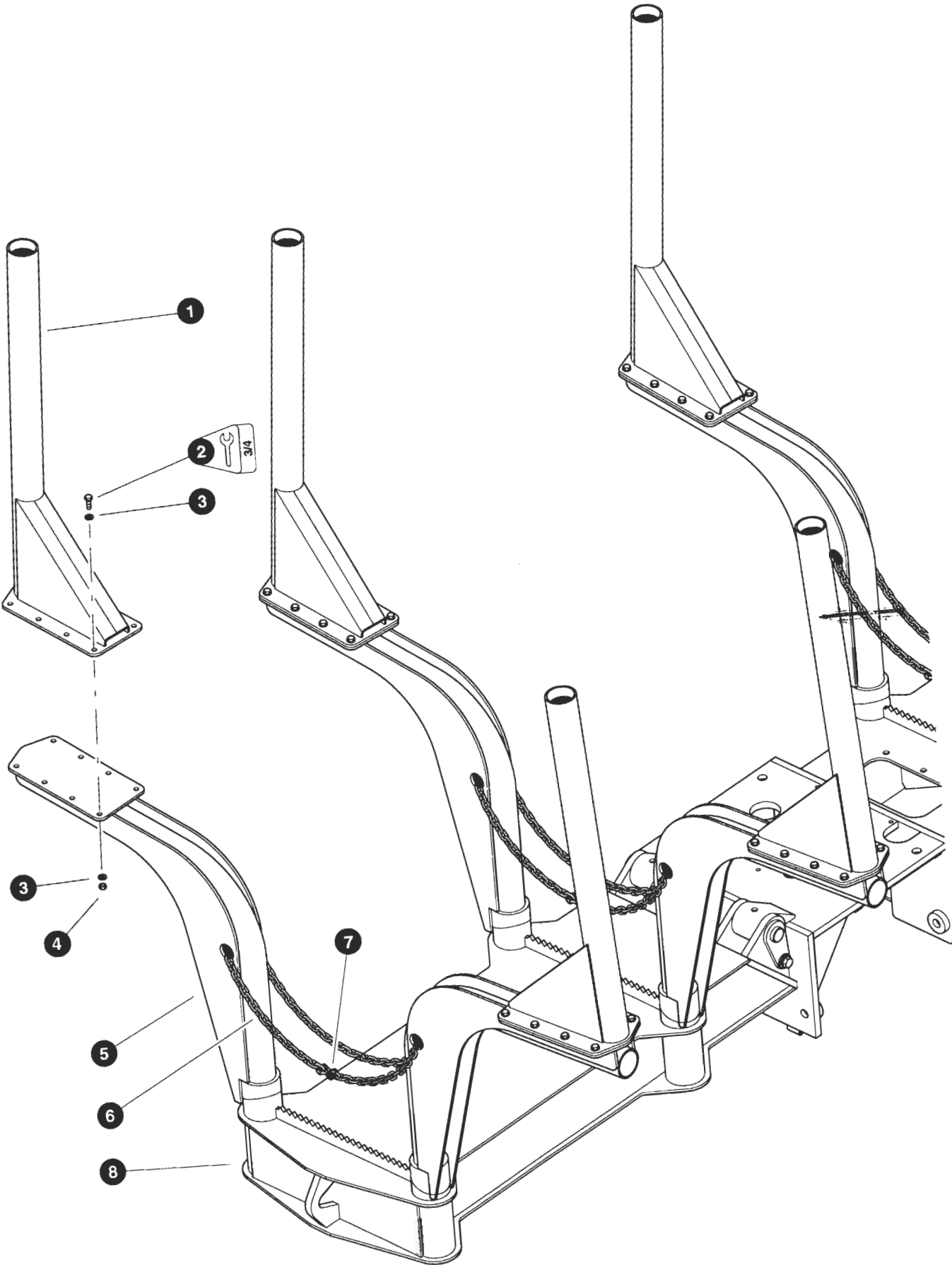
LOG STAKE INSTALLATION

(Used on machines PDN# 040FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	19896	8	☐	LOG STAKE, adjustable	
1	80322	1		WELDMENT, upper 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	80321	1		WELDMENT, lower log stake	
6	19246	1		LINK, chain - 3/8" (Grade 70)	
7	19245	8		SHACKLE, screw pin anchor - 5/16"	
8	19246	8		LINK, chain - 3/8" (Grade 70)	
9	REF.	1	☒	FLOATING BUNK WELDMENT	H.6.2

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

Last Updated - 04/01/98

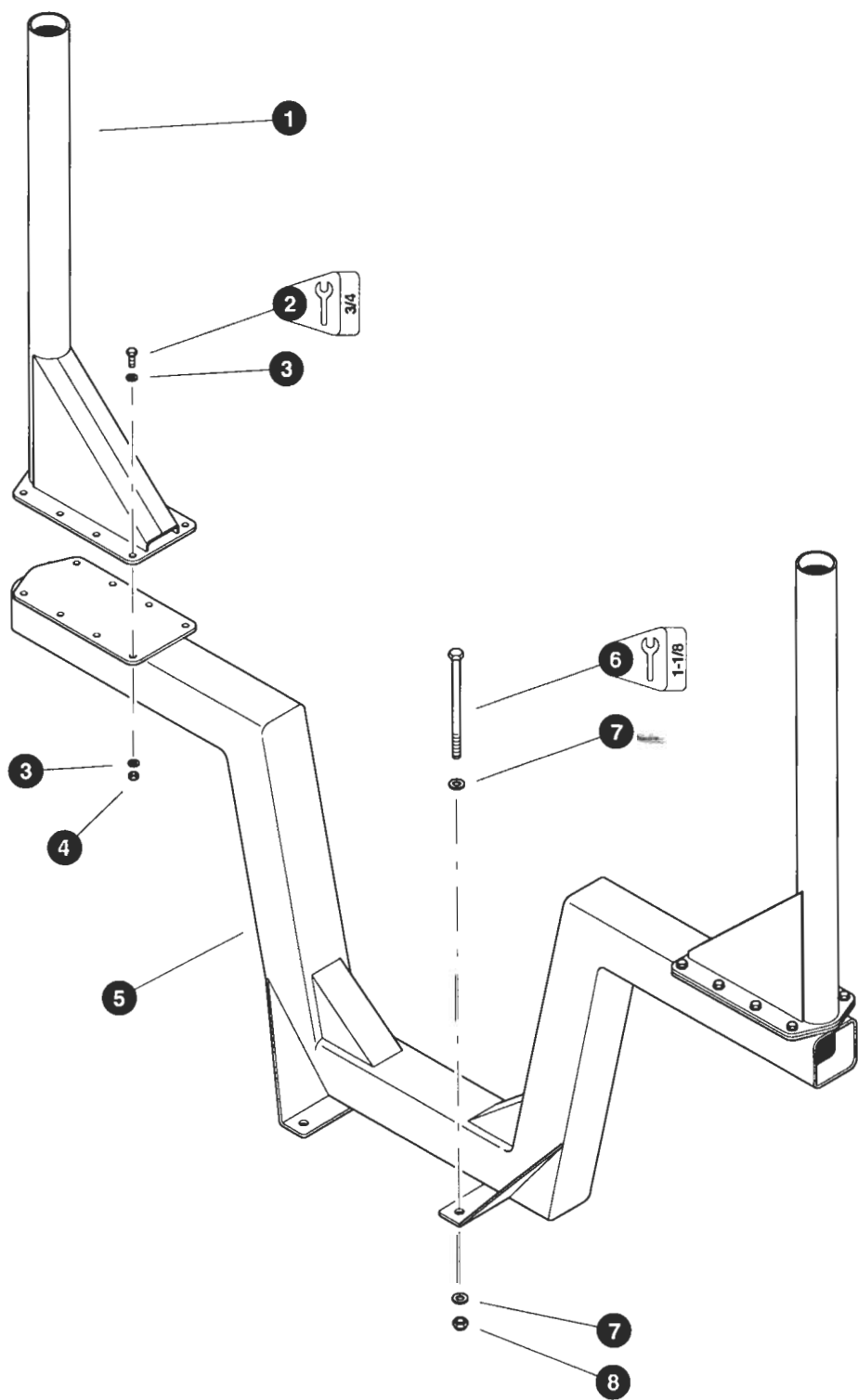


Parts 00504 03/16/98
9.375

LOG STAKE INSTALLATION*(Used on machines PDN# 041FWD thru 049FWD)*

REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	19896	8	☐	LOG STAKE, adjustable	
1	80322	1		WELDMENT, upper 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	80321	1		WELDMENT, lower log stake	
6	20075	8		CHAIN, 8 links - 3/8" (Grade 70)	
7	20076	8		LINK, mid - 3/8" (Includes all hardware)	
9	REF.	1	☒	FLOATING BUNK WELDMENT	H.6.2

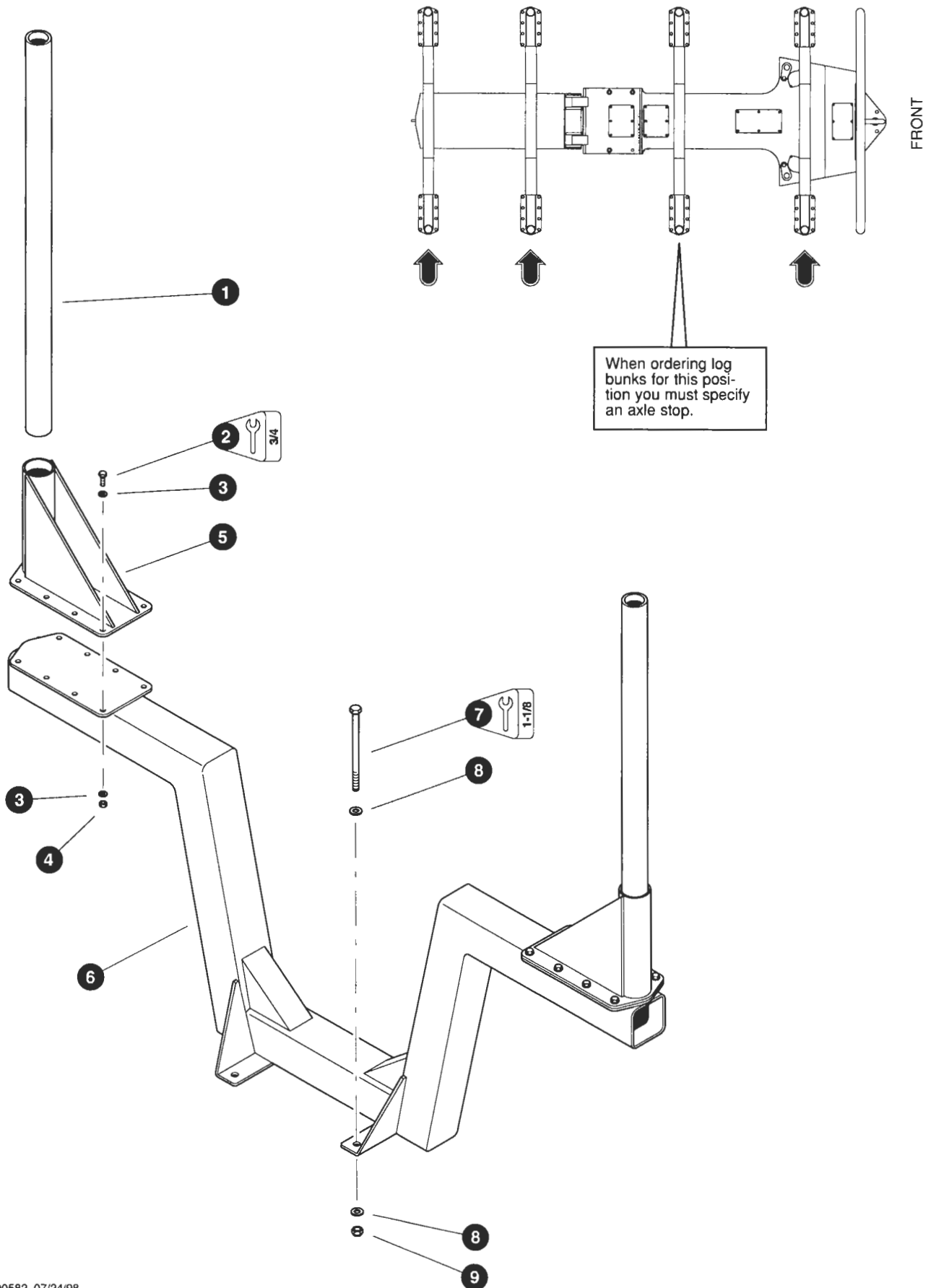
- ☐ Kit or Assembly - includes all items indented underneath.
- ☒ See referenced page for component or assembly breakdown.



Parts 00558 04/15/98
9.375

LOG BUNK & STAKE INSTALLATION*(Used on machines PDN# 050FWD thru PDN# 052FWD)*

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" (Used when mounting log bunk to the floating bunk)	
	20906	8	BOLT - 3/4" x 16" (Used when mounting log bunk to the rear frame)	
7	15550	32	WASHER, SAE flat - 3/4"	
8	10817	16	NUT, lock - 3/4"	



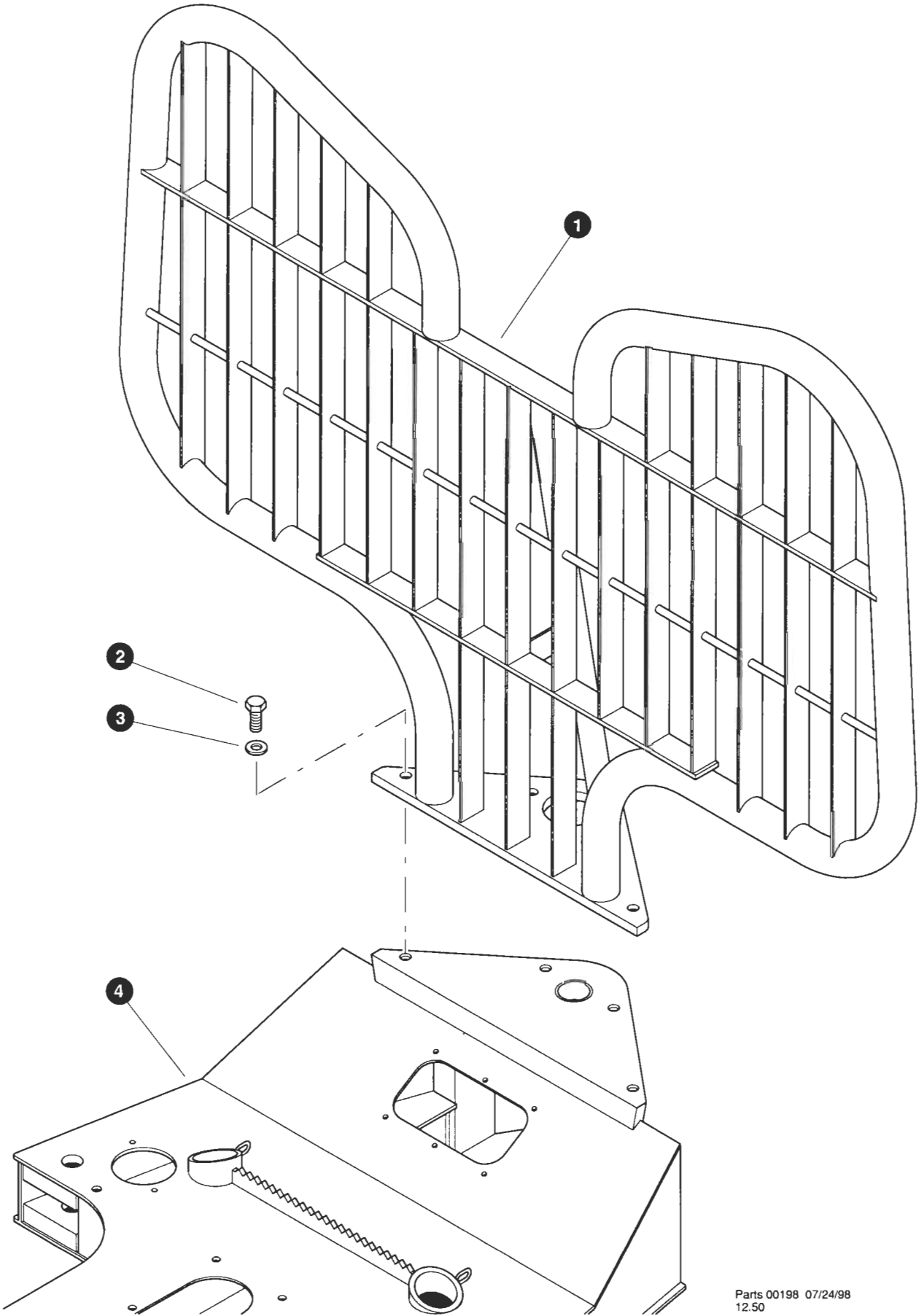
Parts 00582 07/24/98
9.375

LOG BUNK & STAKE INSTALLATION*(Used on machines PDN# 053FWD and above)*

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" (Used on machines with standard 28L-26 wheels) (See Note Below)	
	21667	4	WELDMENT, log bunk - 28" (Used on machines with optional 700/50x26.5 & 750/50x26.5 wheels) (See Note Below)	
7	20905	8	BOLT - 3/4" x 12" (Used when mounting log bunk to the floating bunk)	
	20906	4	BOLT - 3/4" x 16" (Used when mounting log bunk to the rear frame)	
8	15550	24	WASHER, SAE flat - 3/4"	
9	10817	12	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.



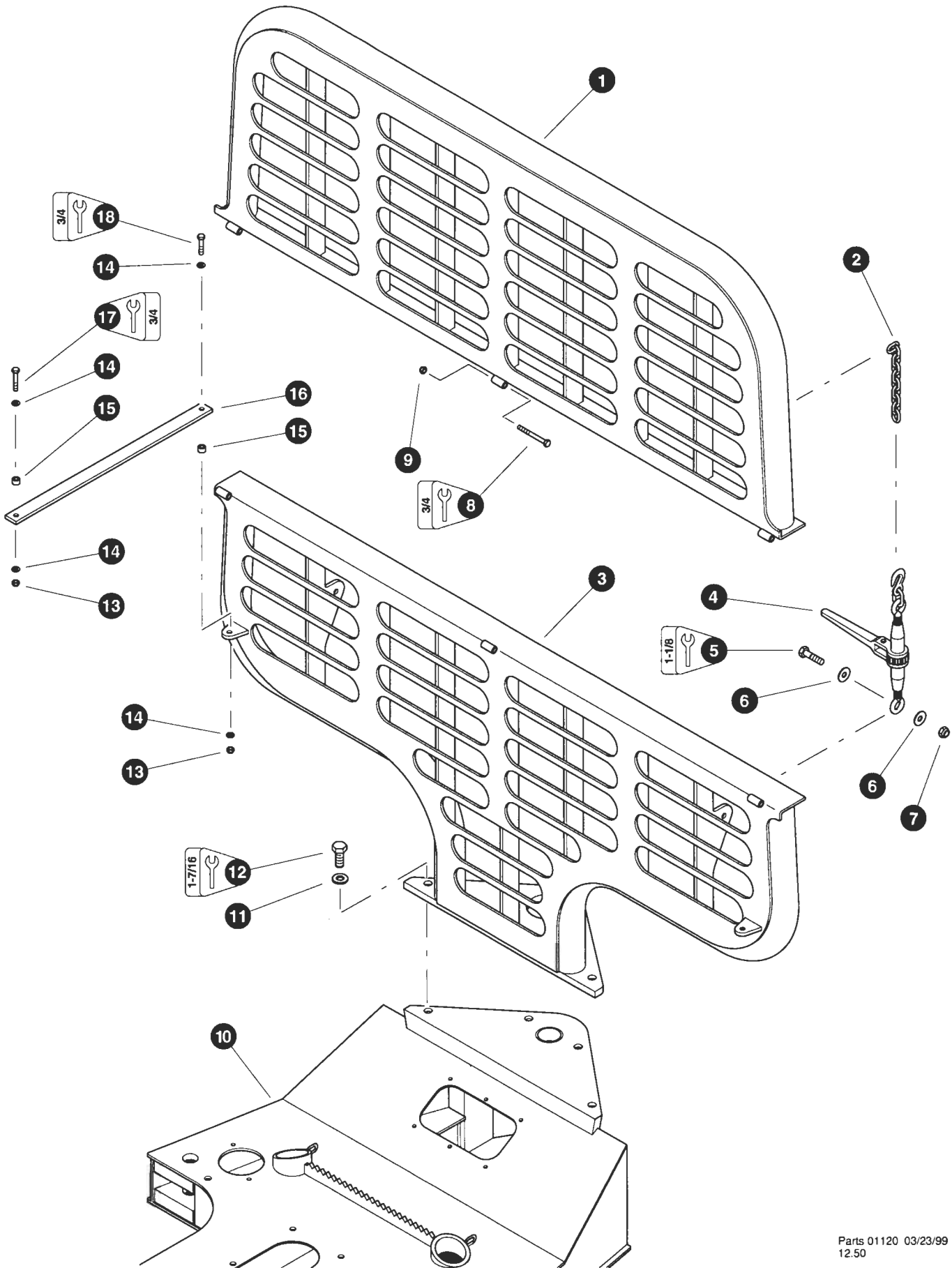
Parts 00198 07/24/98
12.50

LOG RACK INSTALLATION

(Used on machines PDN# 074FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	80189	1		WELDMENT, log rack	
2	15552	4		BOLT - 1" x 2-1/2"	
3	15579	4		WASHER, SAE flat - 1"	
4	REF.	1	✓	REAR FRAME WELDMENT	H.5.2

✓ See referenced page for component or assembly breakdown.



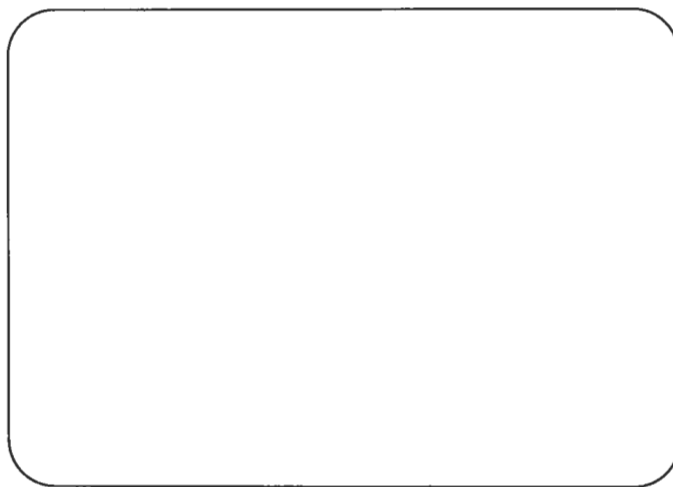
Parts 01120 03/23/99
12.50

LOG RACK INSTALLATION*(Used on machines PDN# 075FWD and above)*

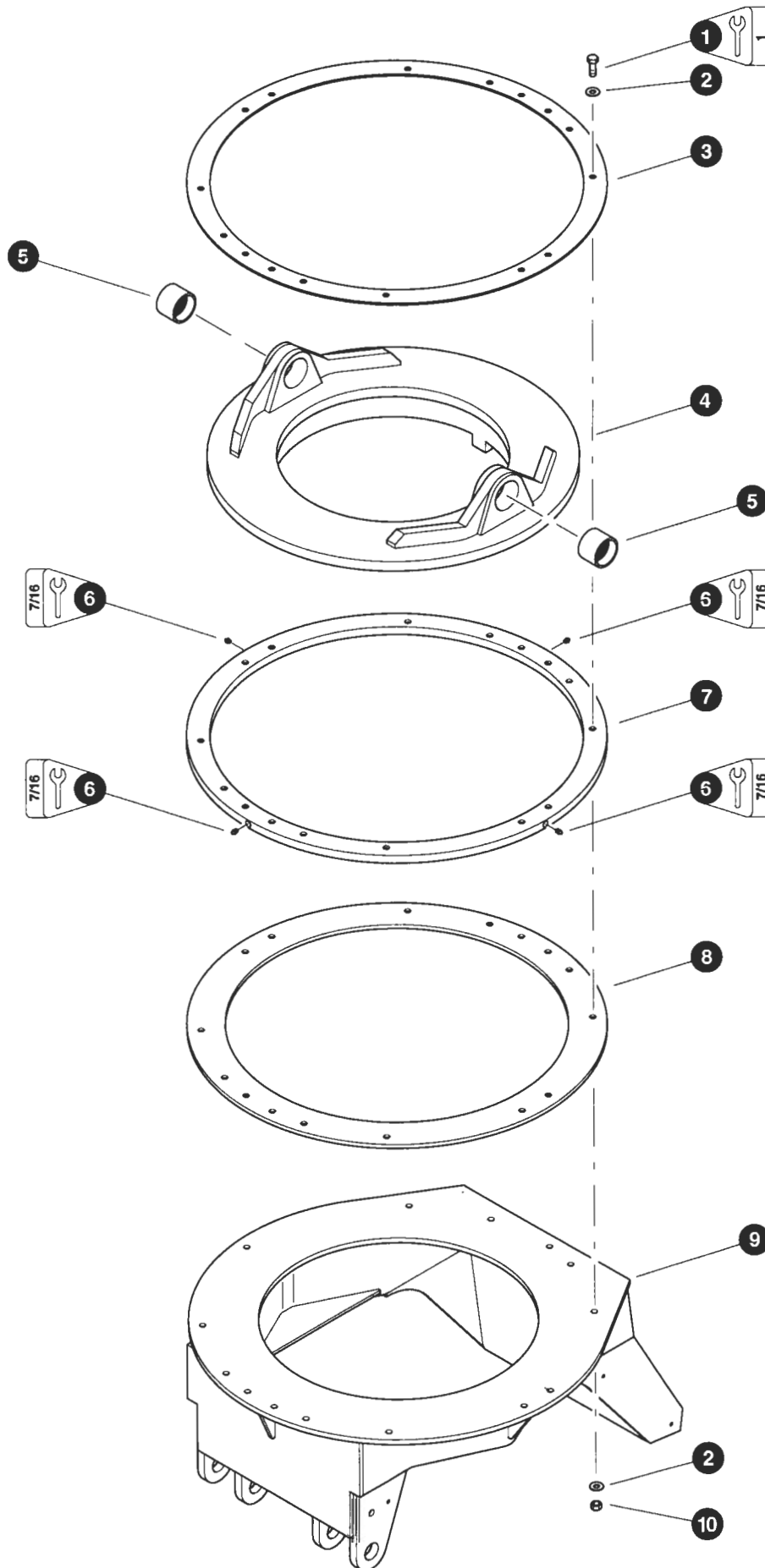
REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	80454	1	☐	LOG RACK ASSEMBLY	
1	80448	1		WELDMENT, log rack - upper	
2	22289	2		CHAIN - 3/8" (10 links)(Welded to upper log rack weldment)	
3	80447	1		WELDMENT, log rack - lower	
4	22290	2		BINDER, chain	
5	10840	2		BOLT - 3/4" x 3"	
6	10806	4		WASHER, flat - 3/4"	
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.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Structural Components - Optional Clam Bunk

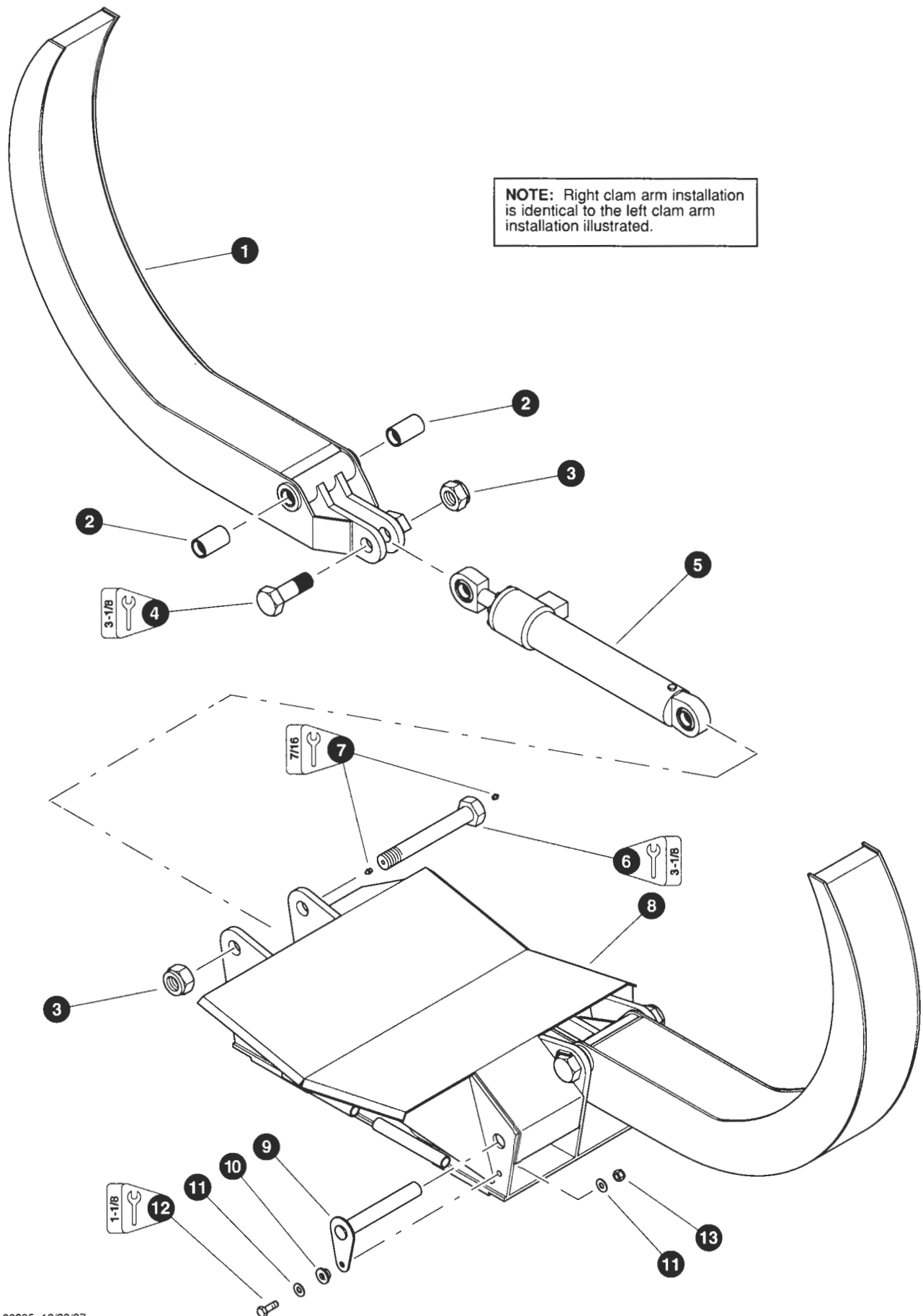


Parts 00384 12/23/97
9.375

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 00385 12/23/97
9.375

CLAM BUNK ARM INSTALLATION (4" Diameter Clam Bunk Cylinders)

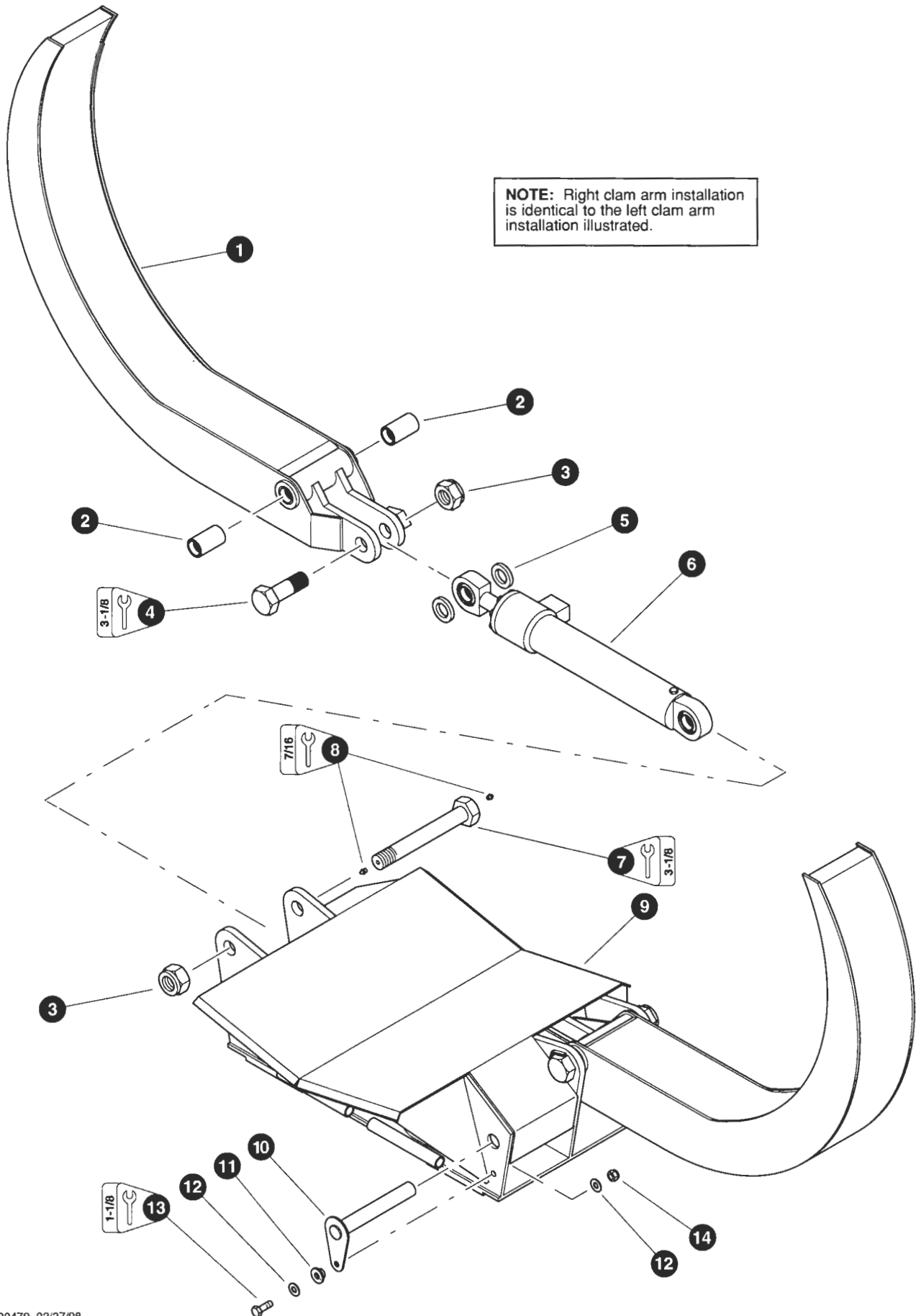
(Used on machines PDN# 042FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	13340	2	☐	WELDMENT, clam bunk arm - 4" dia. cylinder (See note below)	
2	12149	2		BUSHING - 2" x 4-1/4"	
3	10728	4		NUT, nylock - 2"	
4	20250	2		PIN, clam bunk cylinder rod - 2" x 6"	
5	REF.	2	☒	CLAM BUNK CYLINDER	E.2.10
6	19546	2	☐	PIN, clam arm	
7	10704	4		FITTING, grease	
8	13330	1		WELDMENT, clam arm base	
9	19542	2		PIN, clam cylinder base	
10	18570	2		WASHER, pin retaining	
11	15550	2		WASHER, SAE flat - 3/4"	
12	10775	2		BOLT - 3/4" x 2-1/2"	
13	10817	2		NUT, lock - 3/4"	

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

Note:

Some machines originally equipped with 4" diameter clam bunk cylinders have been converted to 5" cylinders. Verify installation before ordering parts.



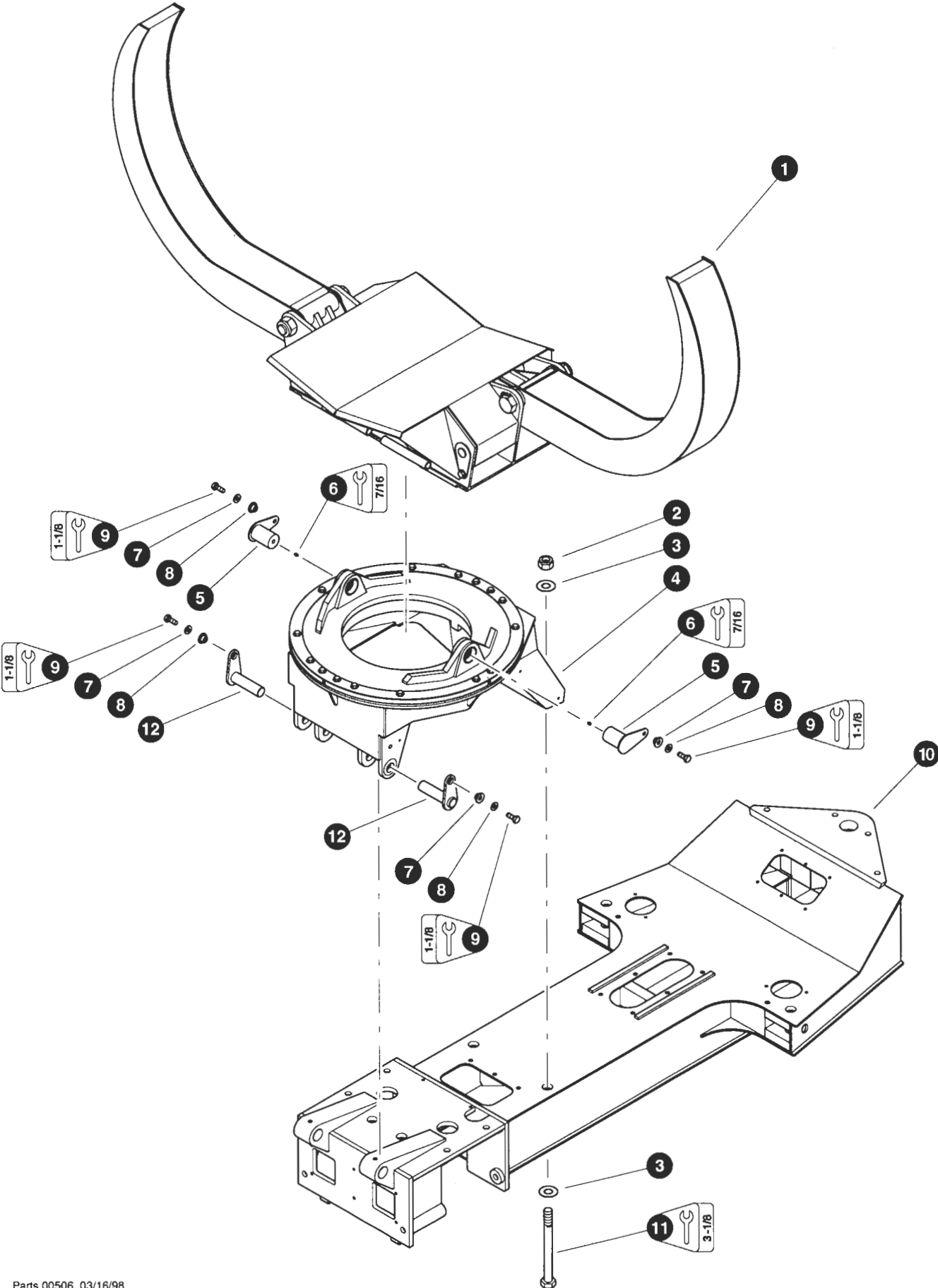
Parts 00479 02/27/98
9.375

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

(Used on machines PDN# 043FWD and above)

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.

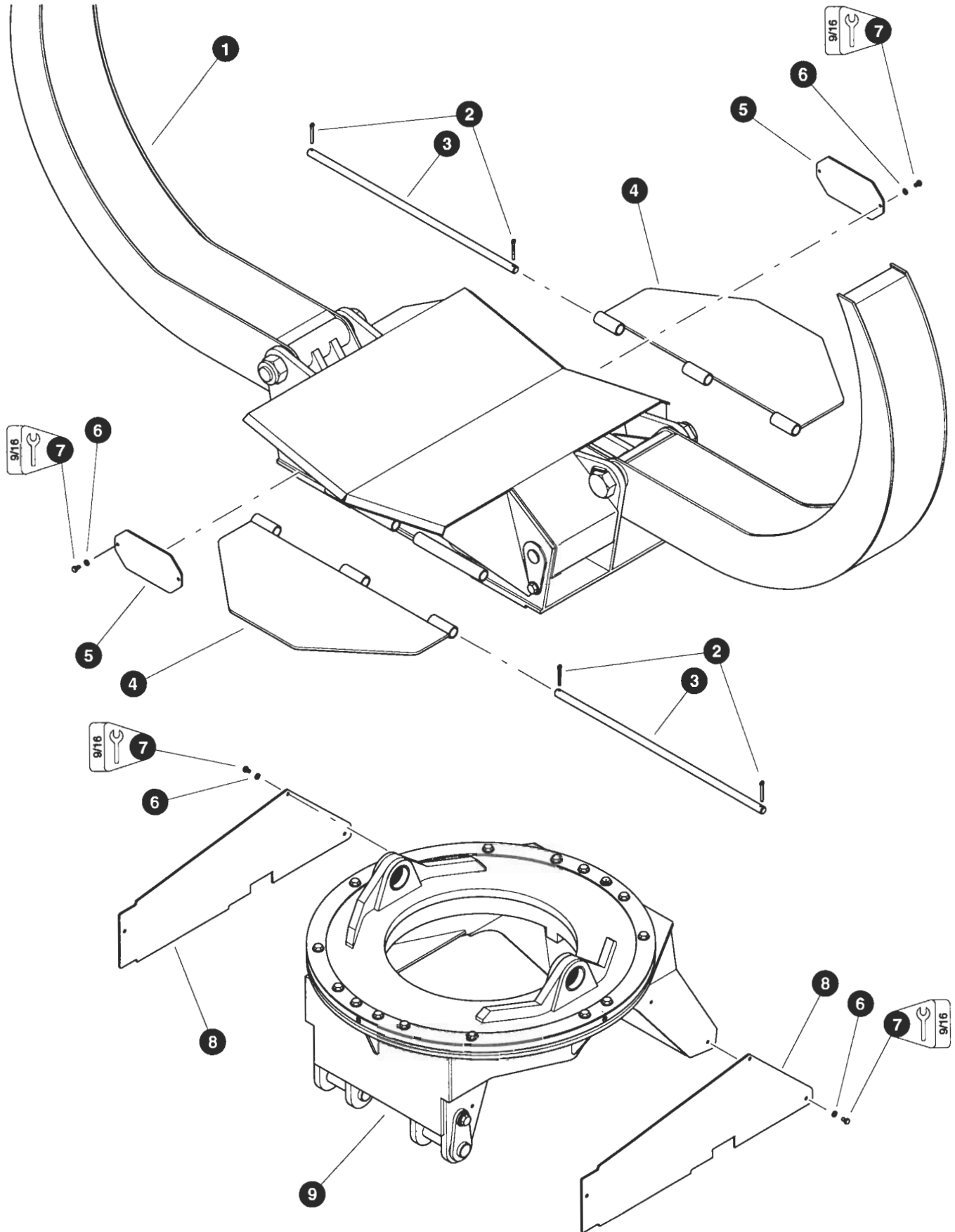


Parts 00506 03/16/98
6.25

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" (Used on machines with box frame design, PDN# 044FWD and above)	
	19616	2		BOLT - 1-1/2" x 17-1/2" (Used on machines with box frame design, PDN# 028FWD thru 043FWD)	
	19615	2		BOLT - 1-1/2" x 13" (Used on machines with tubular frame design, PDN# 027FWD and below)	
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

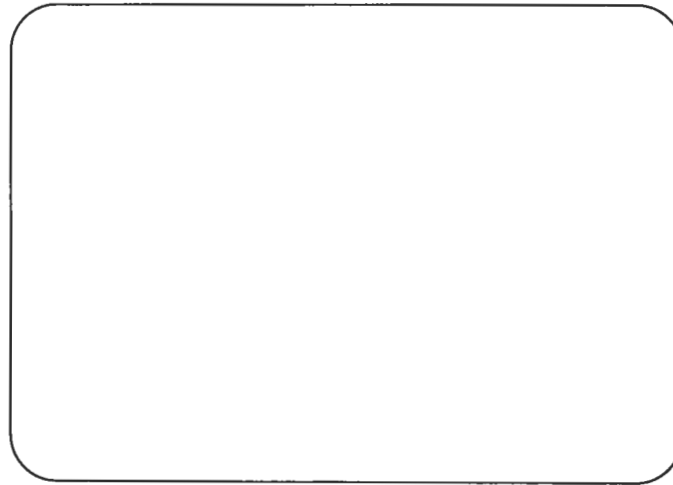
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	CLAM BUNK UPPER COMPONENTS	H.7.4
2	20249	4		PIN, cotter - 1/4" x 2"	
3	13390	2		SHAFT, hinge cover	
4	13385	2		COVER, hinge	
5	13415	4		COVER, access - arm mounting base	
6	15528	14		WASHER, SAE flat - 3/8"	
7	11707	14		BOLT - 3/8" x 1"	
8	13414	2		COVER,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

✓ See referenced page for component breakdown.

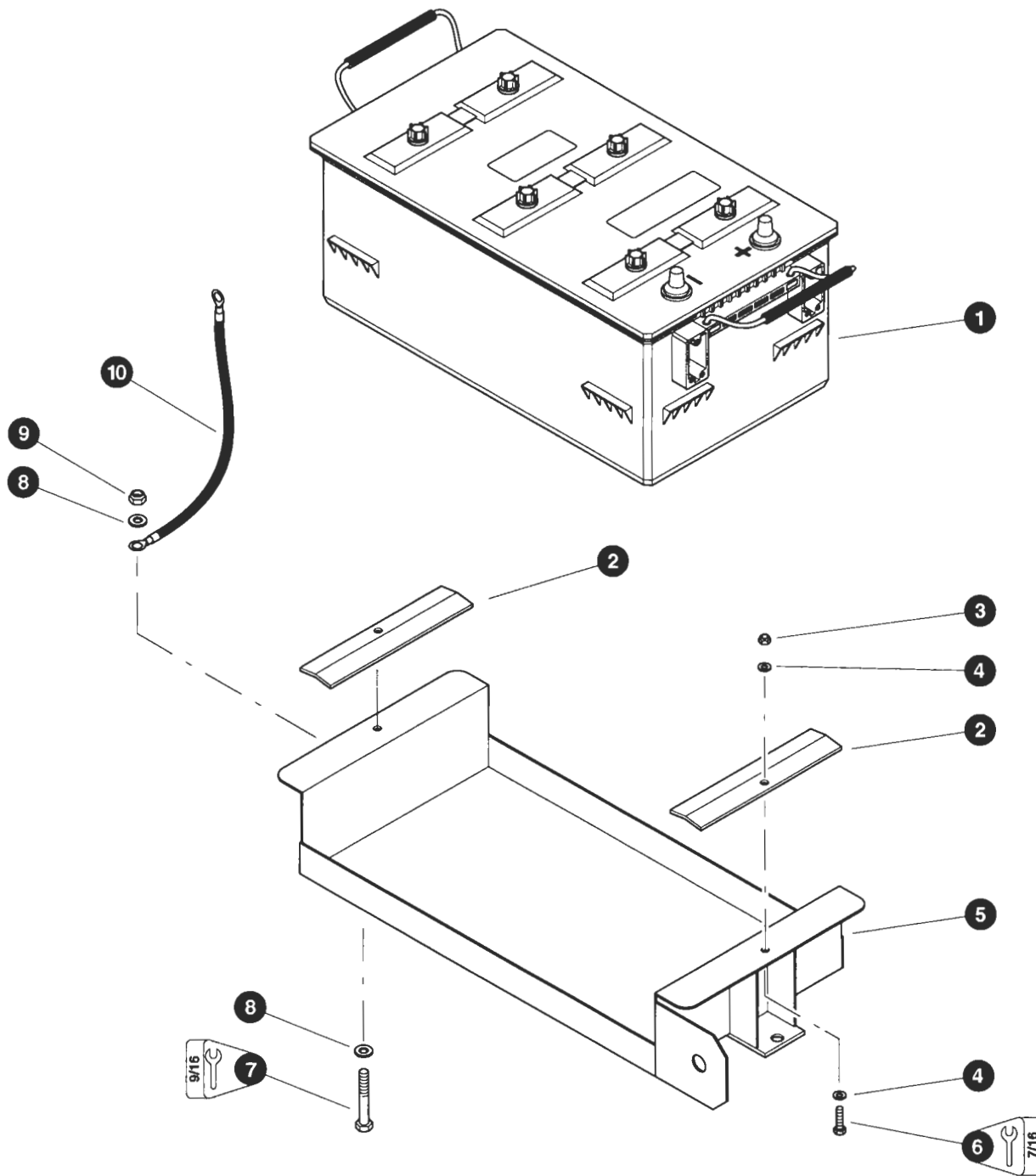
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Section J.1



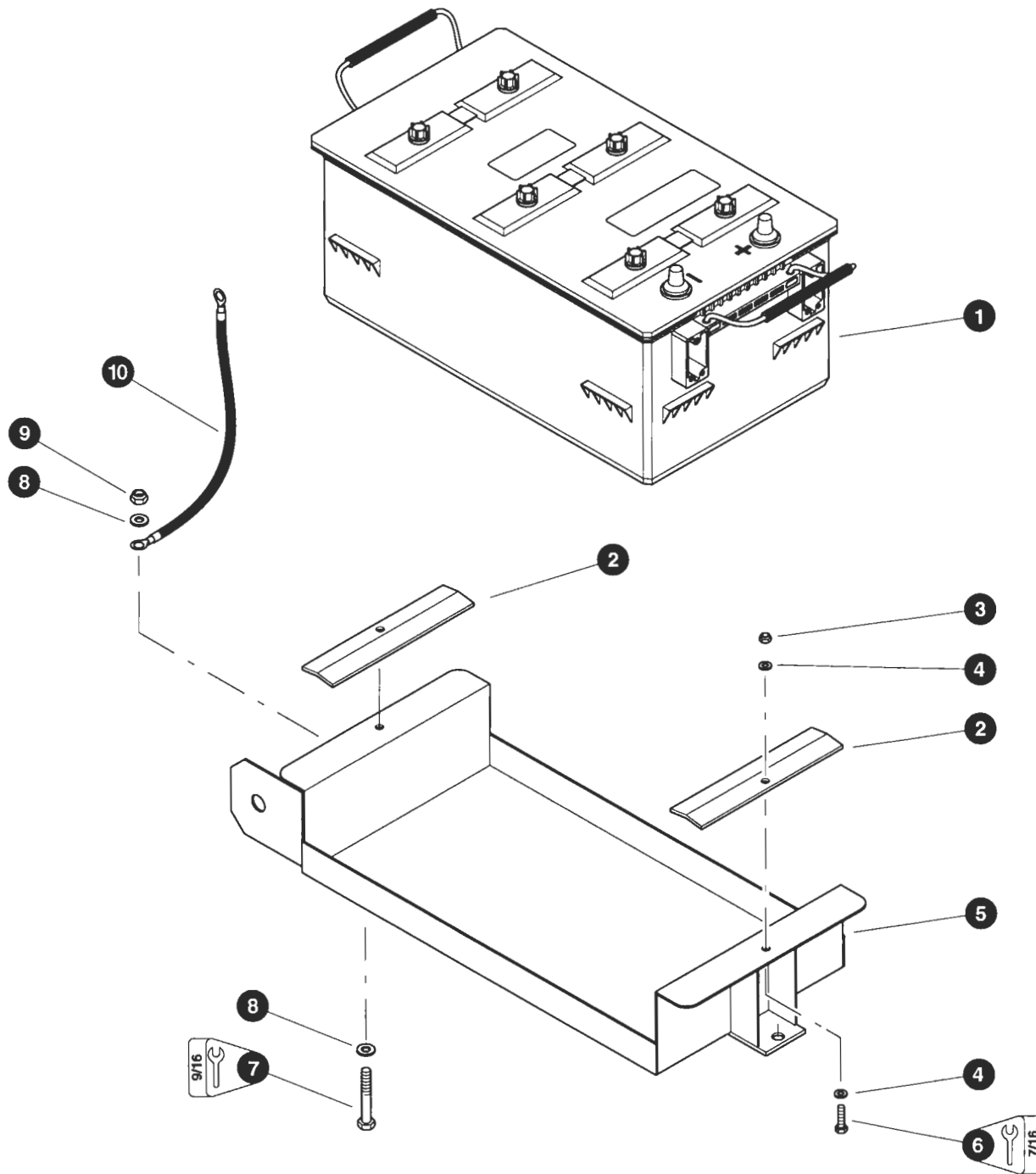
***Electrical System -
Engine***



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"	

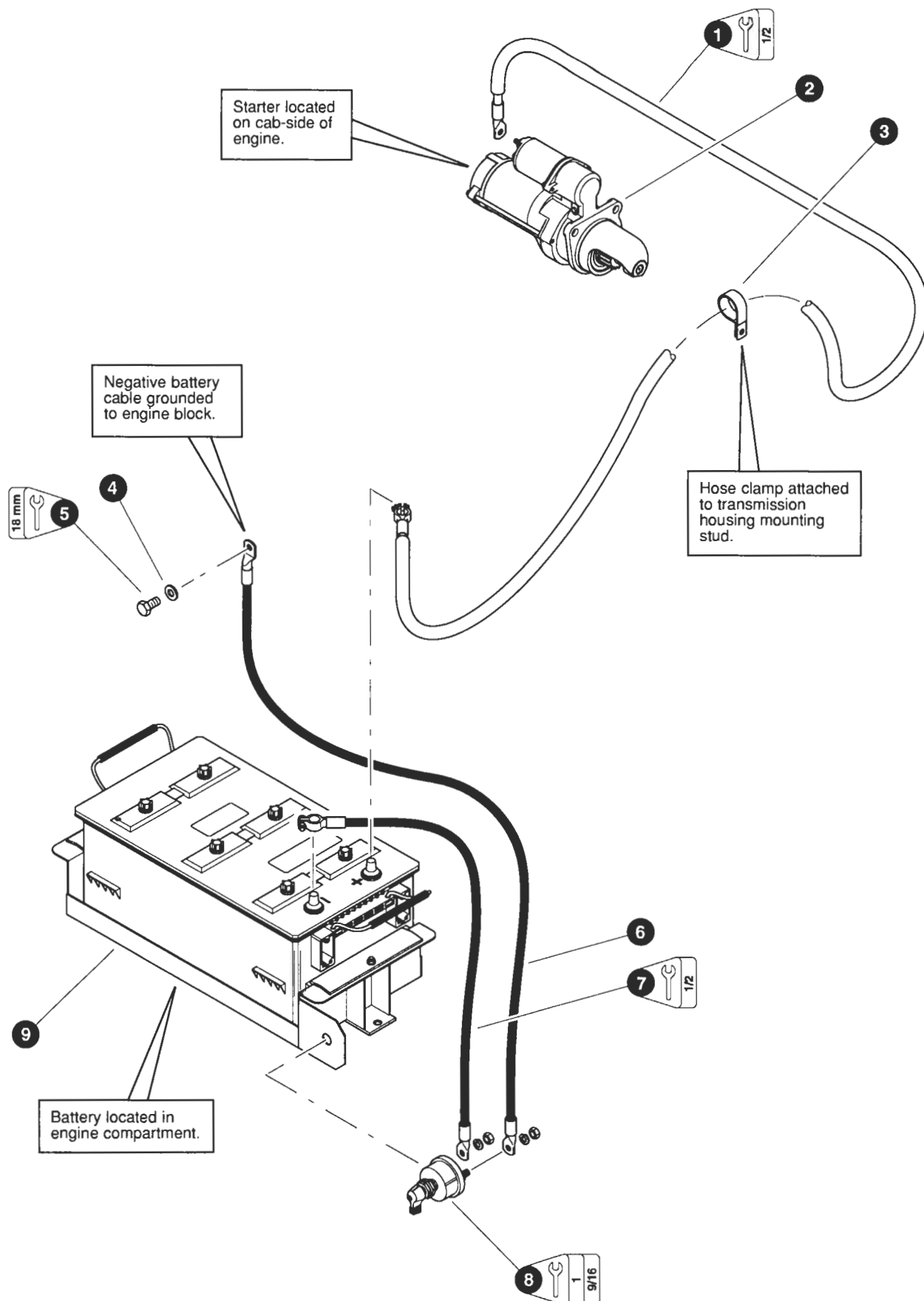


Parts 00436 02/04/98
25.00

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"	



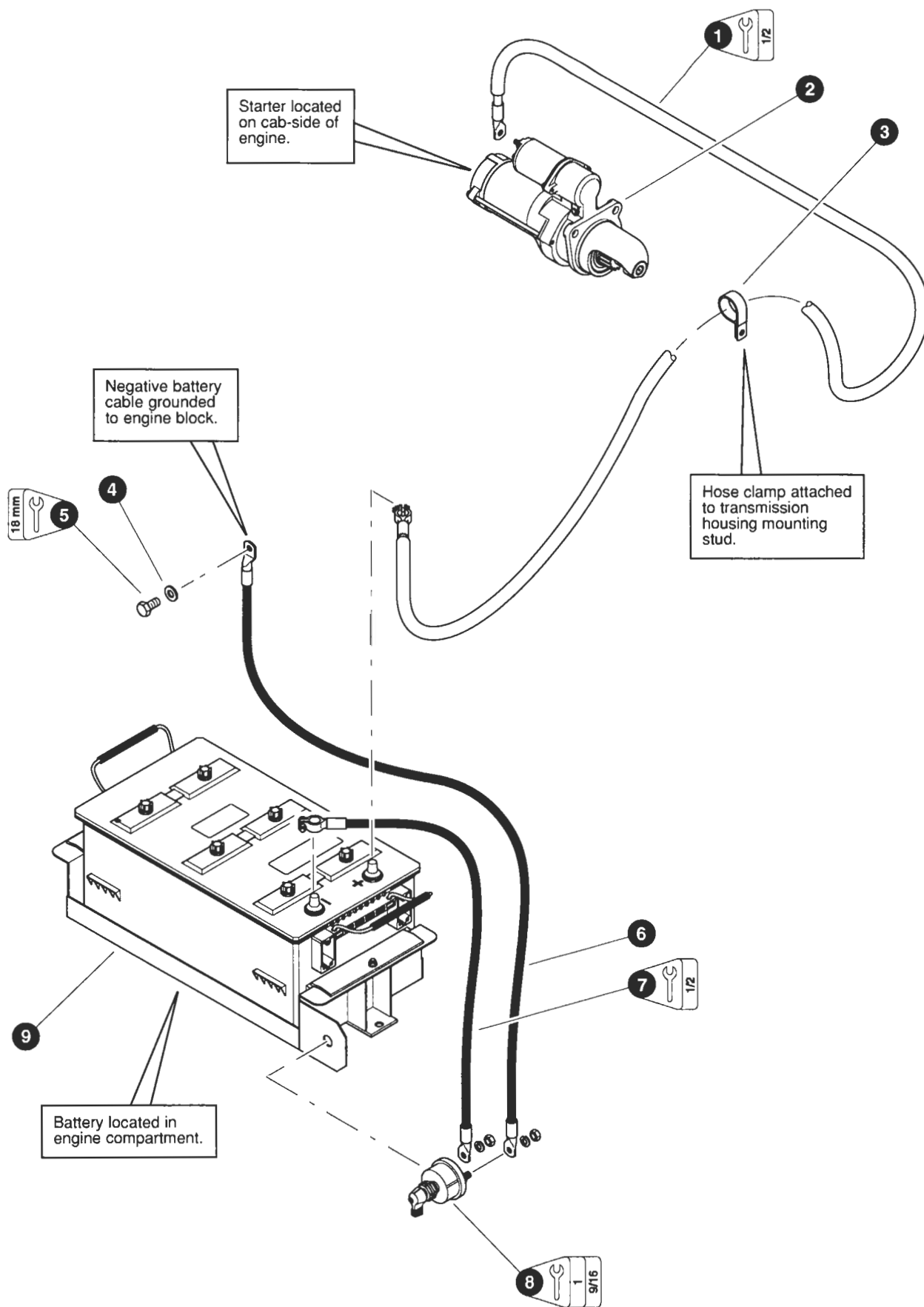
Parts 00435 02/05/98
18.75

BATTERY CABLE INSTALLATION

(Cummins 6CT8.3-C Engines)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	18437	1		CABLE, battery - positive (From positive battery post to starter post)	
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 (From master shut-off switch to ground on engine block)	
7	18586	1		CABLE, battery master disconnect (From negative battery post to master shut-off switch)	
8	16289	1		SWITCH, master shut-off	
9	REF.	1	✓	BATTERY	J.1.2

✓ See referenced page for component or assembly breakdown.



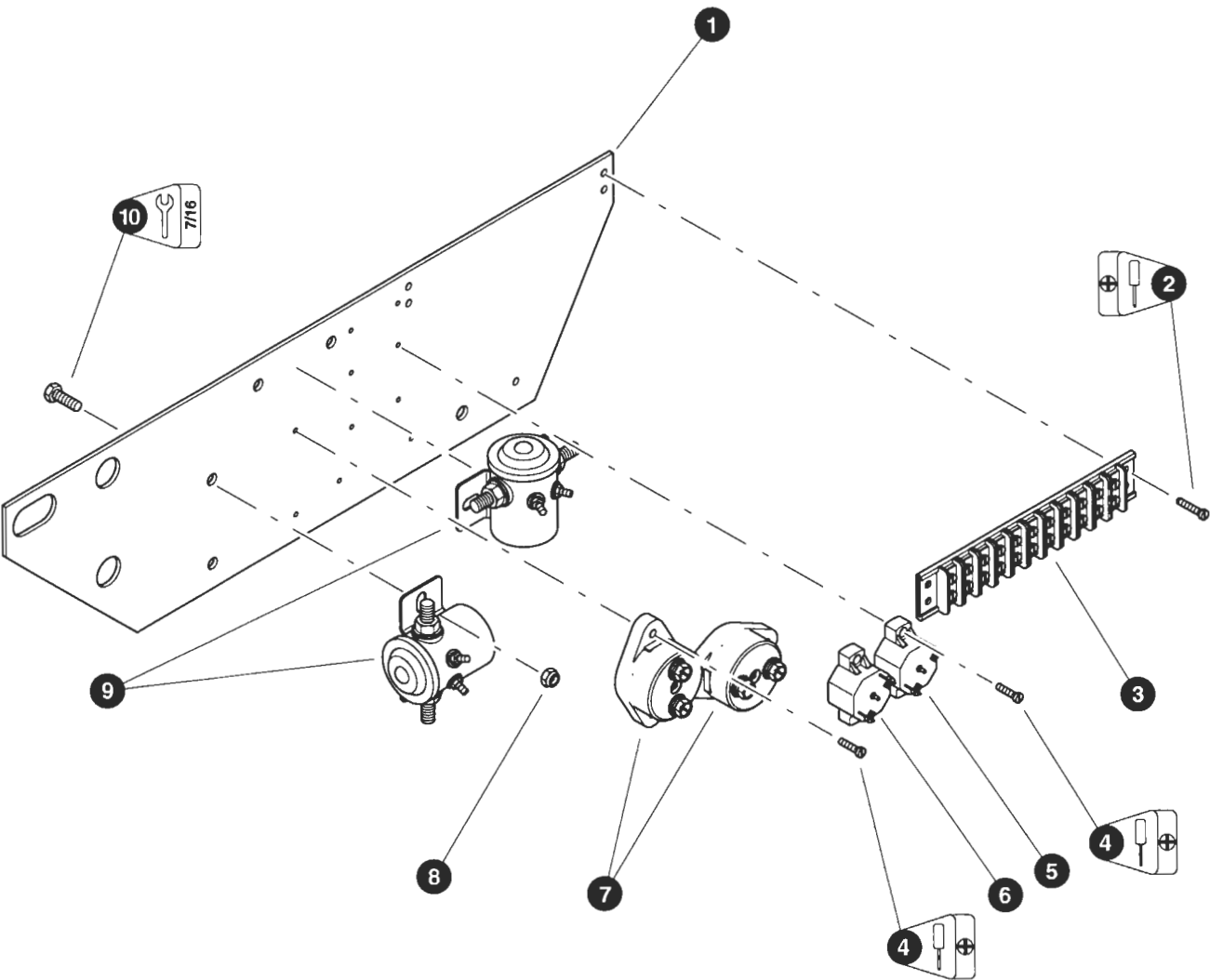
Parts 00435 02/05/98
18.75

BATTERY CABLE INSTALLATION

(Caterpillar 3116T & 3126T Engines)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	18437	1		CABLE, battery - positive (From positive battery post to starter post)	
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 (From master shut-off switch to ground on engine block)	
7	18586	1		CABLE, battery master disconnect (From negative battery post to master shut-off switch)	
8	16289	1		SWITCH, master shut-off	
9	REF.	1	✓	BATTERY	J.1.4

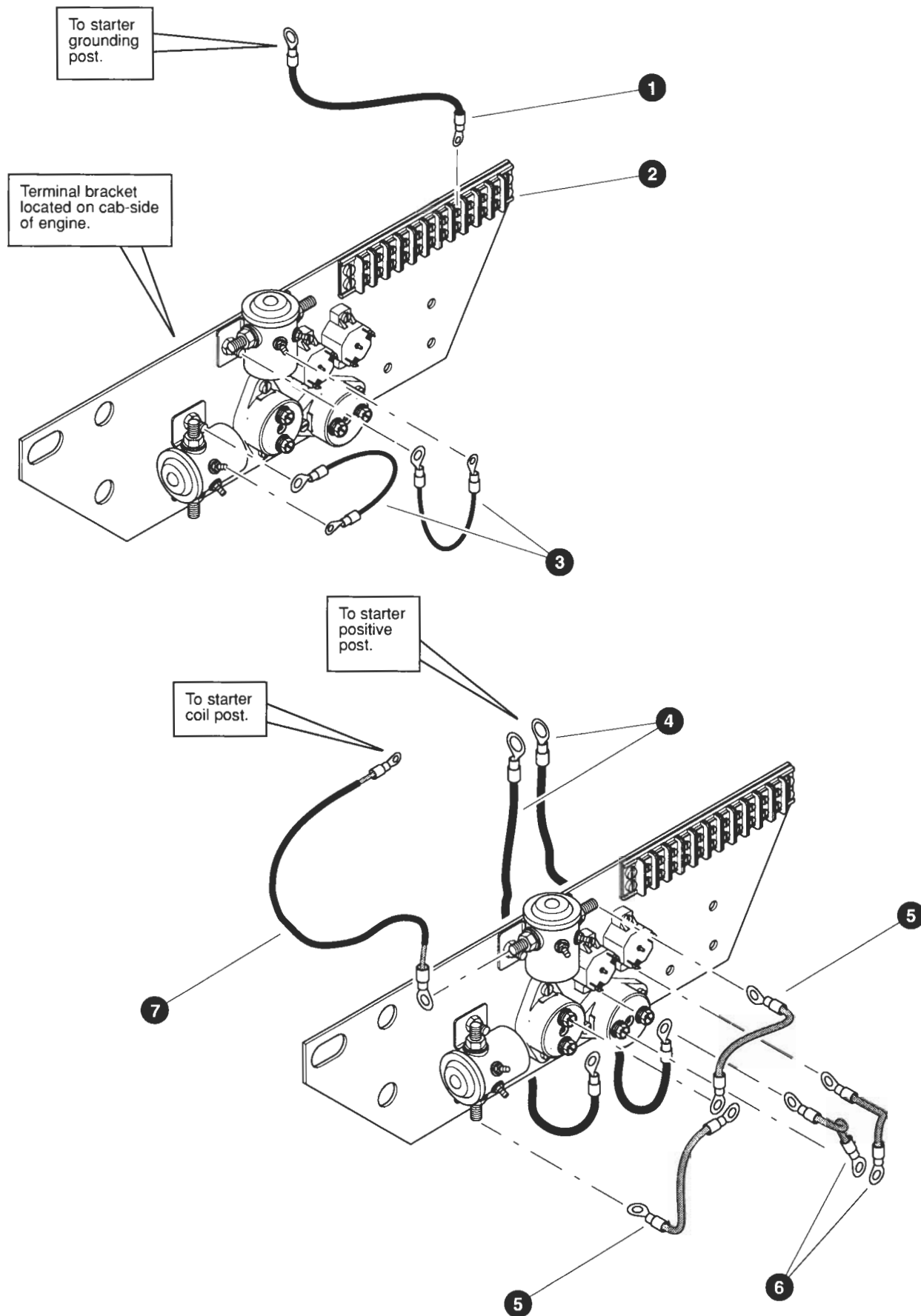
✓ See referenced page for component or assembly breakdown.



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.



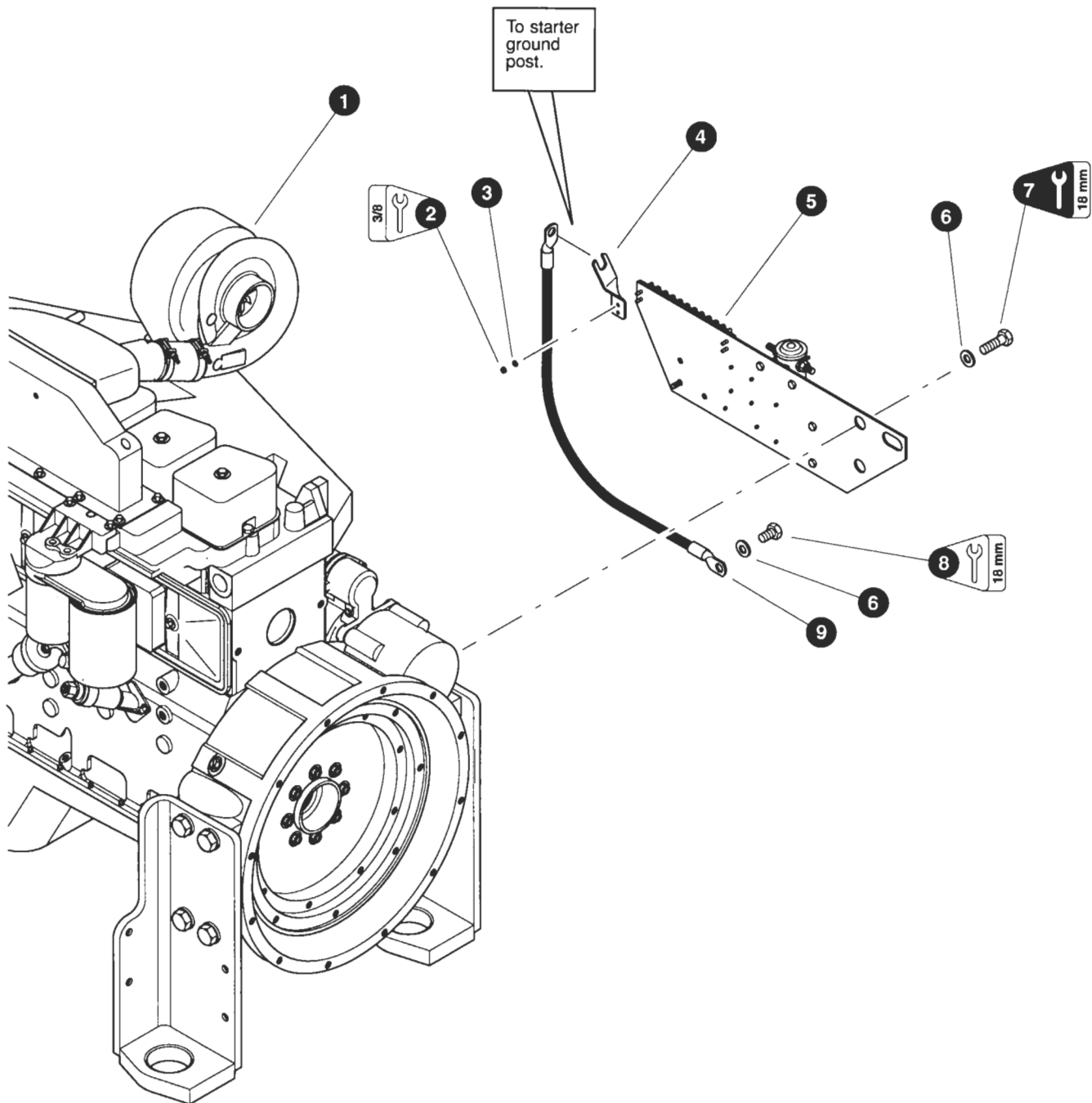
Parts 00441 02/10/98
37.50

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.



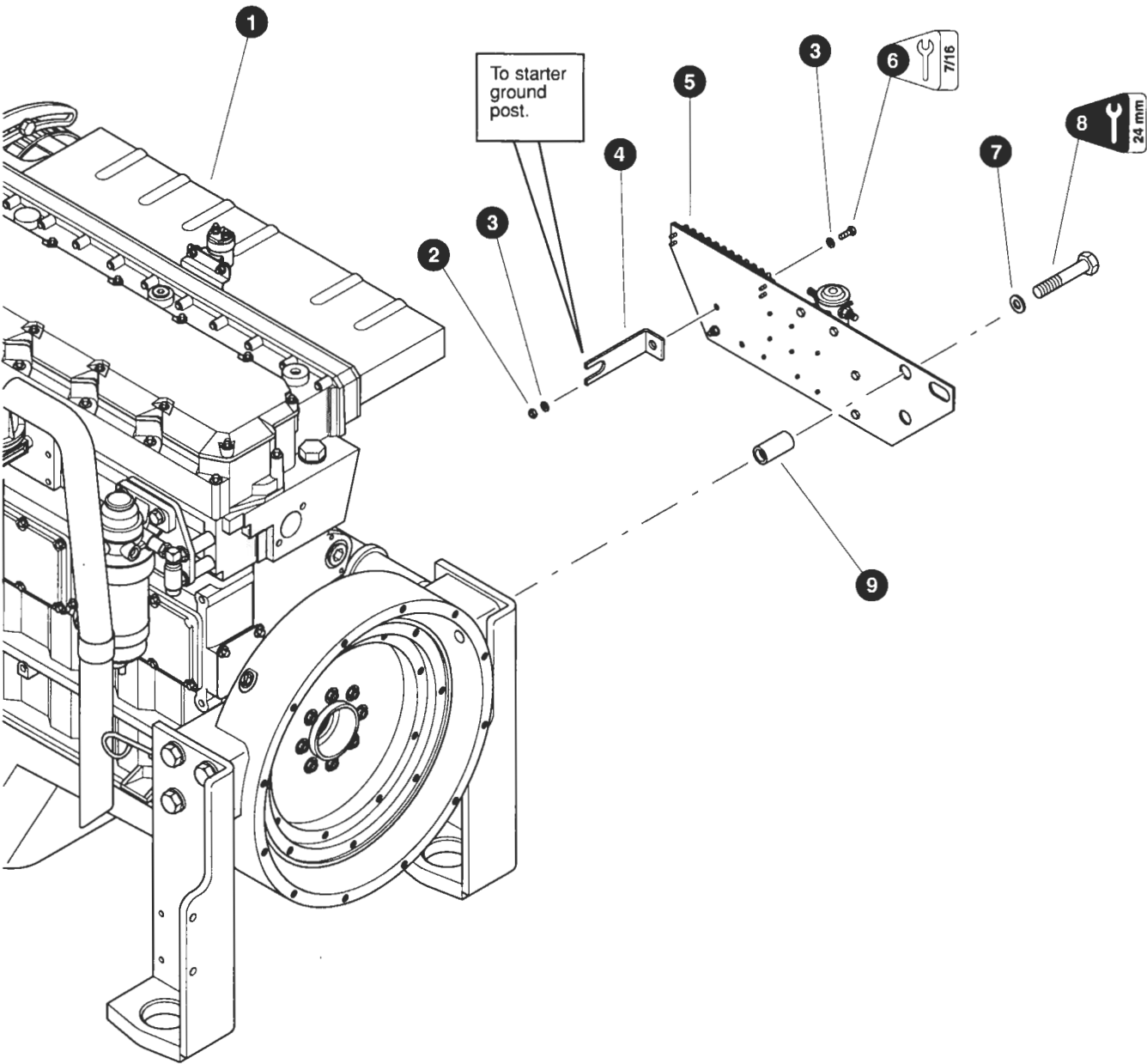
Parts 00439 02/10/98
18.75

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 (<i>Torque to 92 ft.lbs. (122 Nm)</i>)	
8	15556	1		BOLT - 12mm-1.75P x 20mm	
9	17394	1		CABLE, starter ground	

✓ See referenced page for component or assembly breakdown.

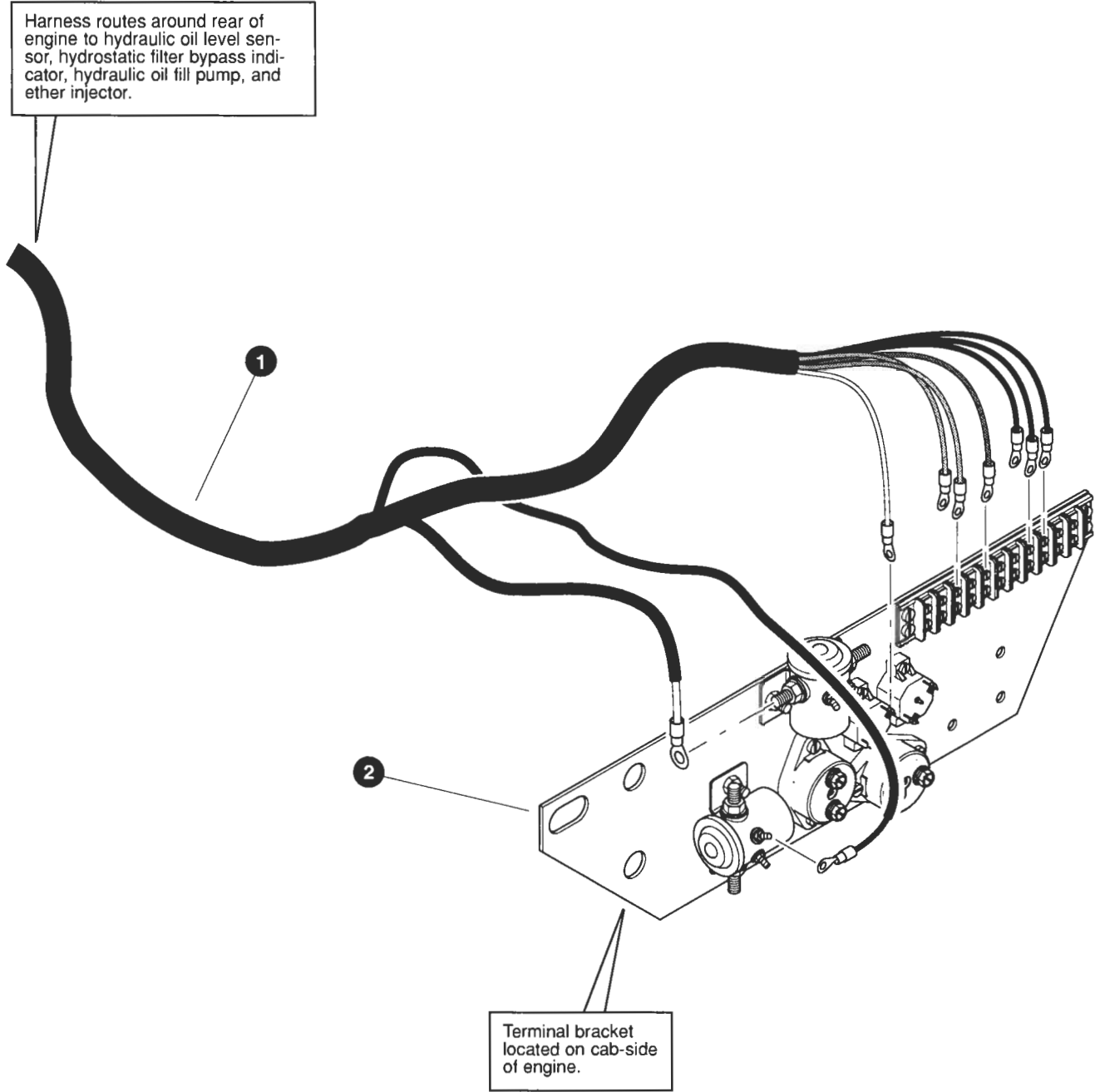


MAIN ENGINE ELECTRICAL

(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 (<i>Torque to 150 ft.lbs. (200 Nm)</i>)	
9	20624	2		SPACER, rear engine mount	

✓ See referenced page for component or assembly breakdown.

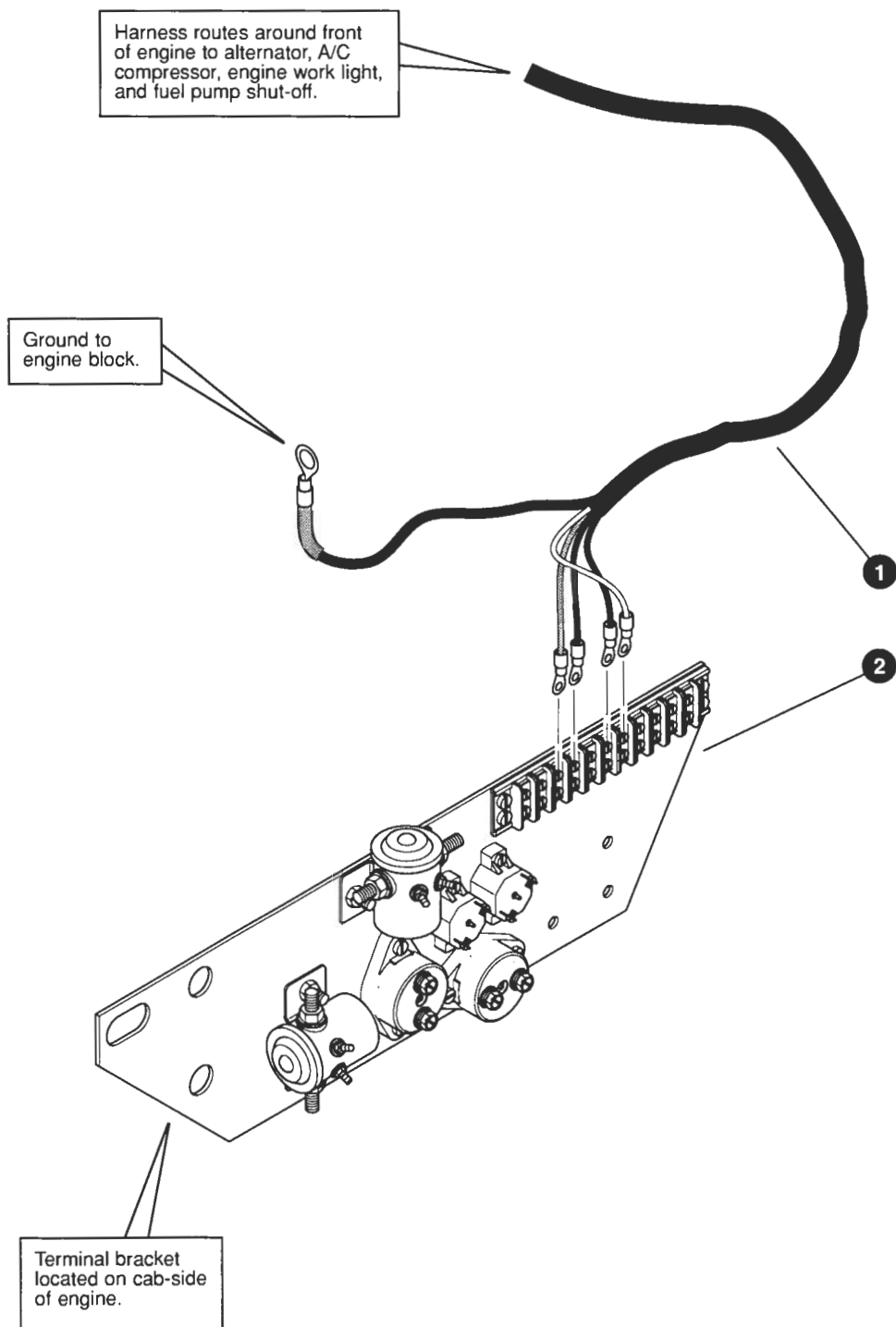


MAIN ENGINE ELECTRICAL

(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.

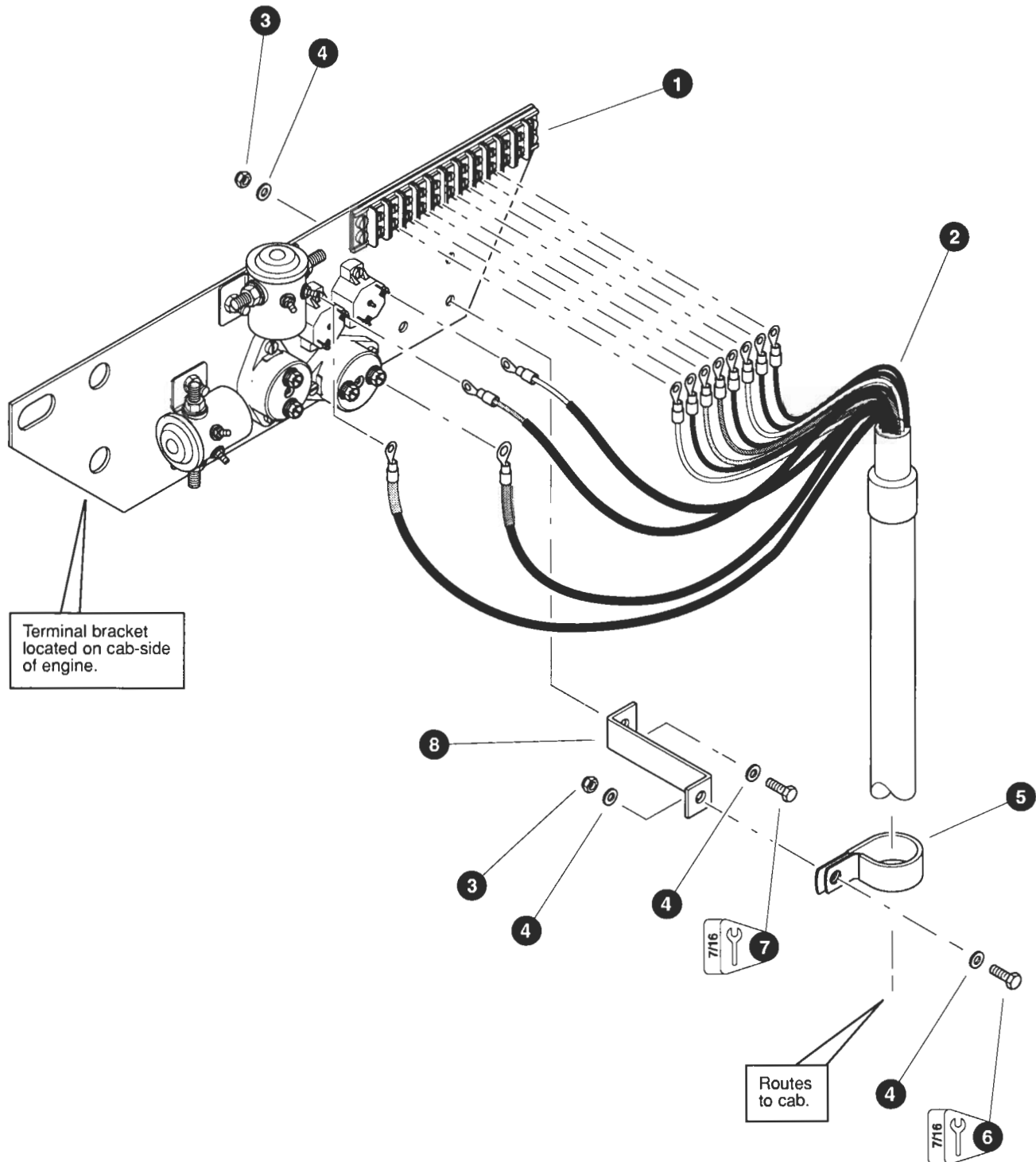


MAIN ENGINE ELECTRICAL

(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.



Parts 00444 02/10/98
37.50

MAIN ENGINE ELECTRICAL

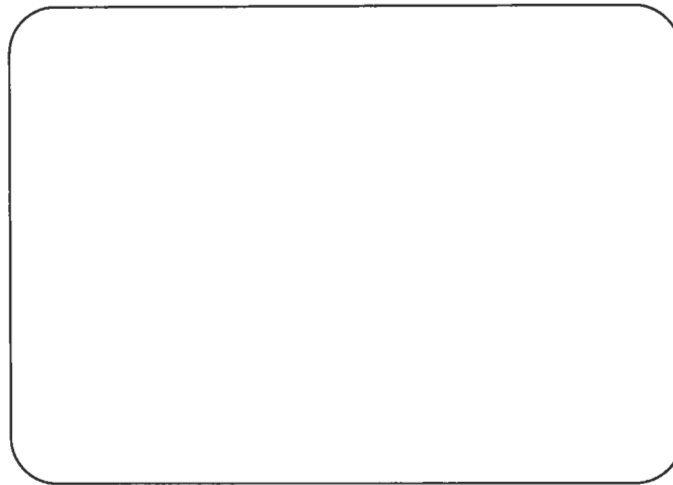
(Main Engine Harness To Cab Connections)

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	

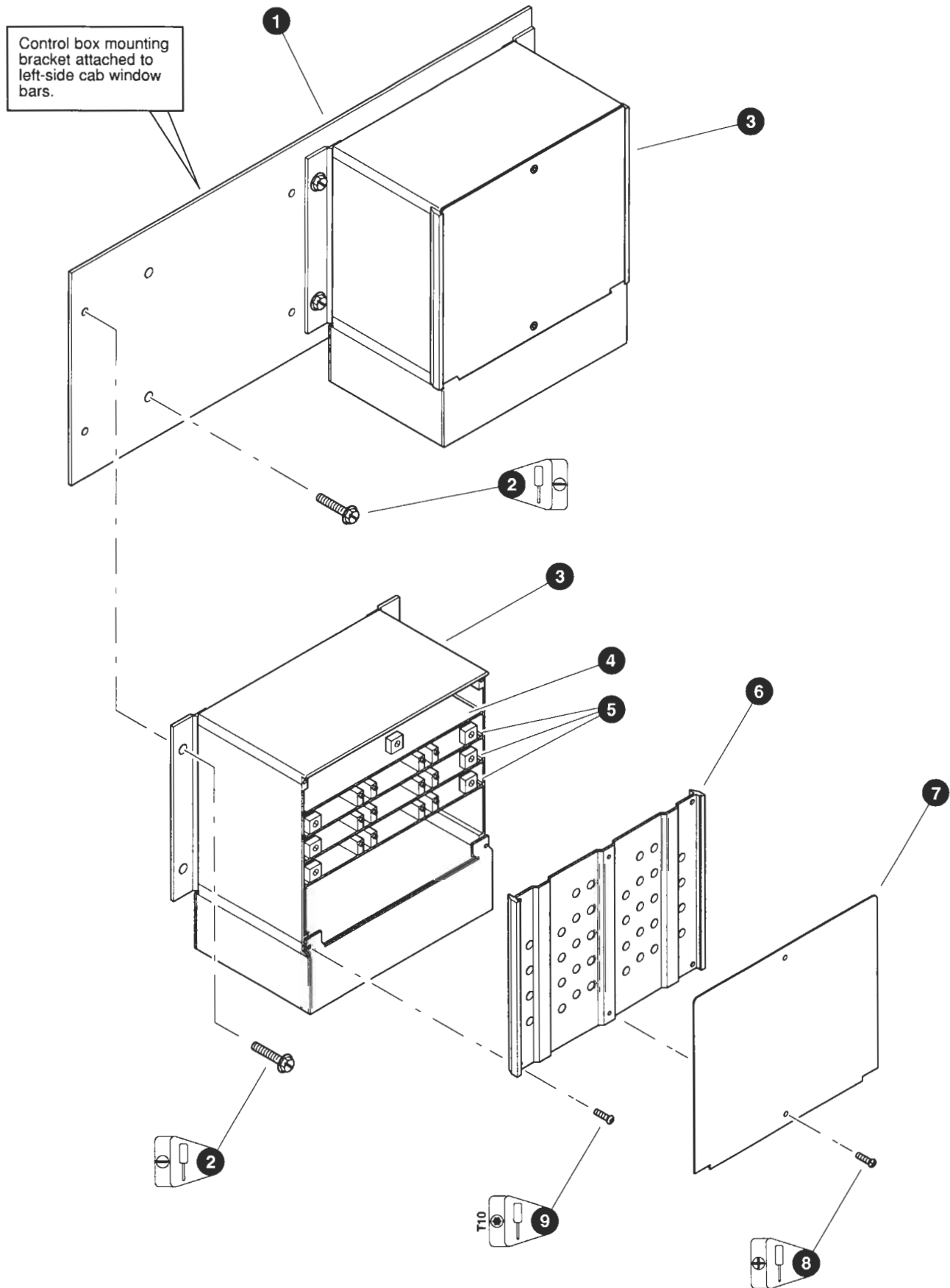
- ☐ Kit or Assembly - includes all items indented underneath.
- ☒ See referenced page for component or assembly breakdown.

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Section J.2



Electrical System - Hydro-Electric Controls



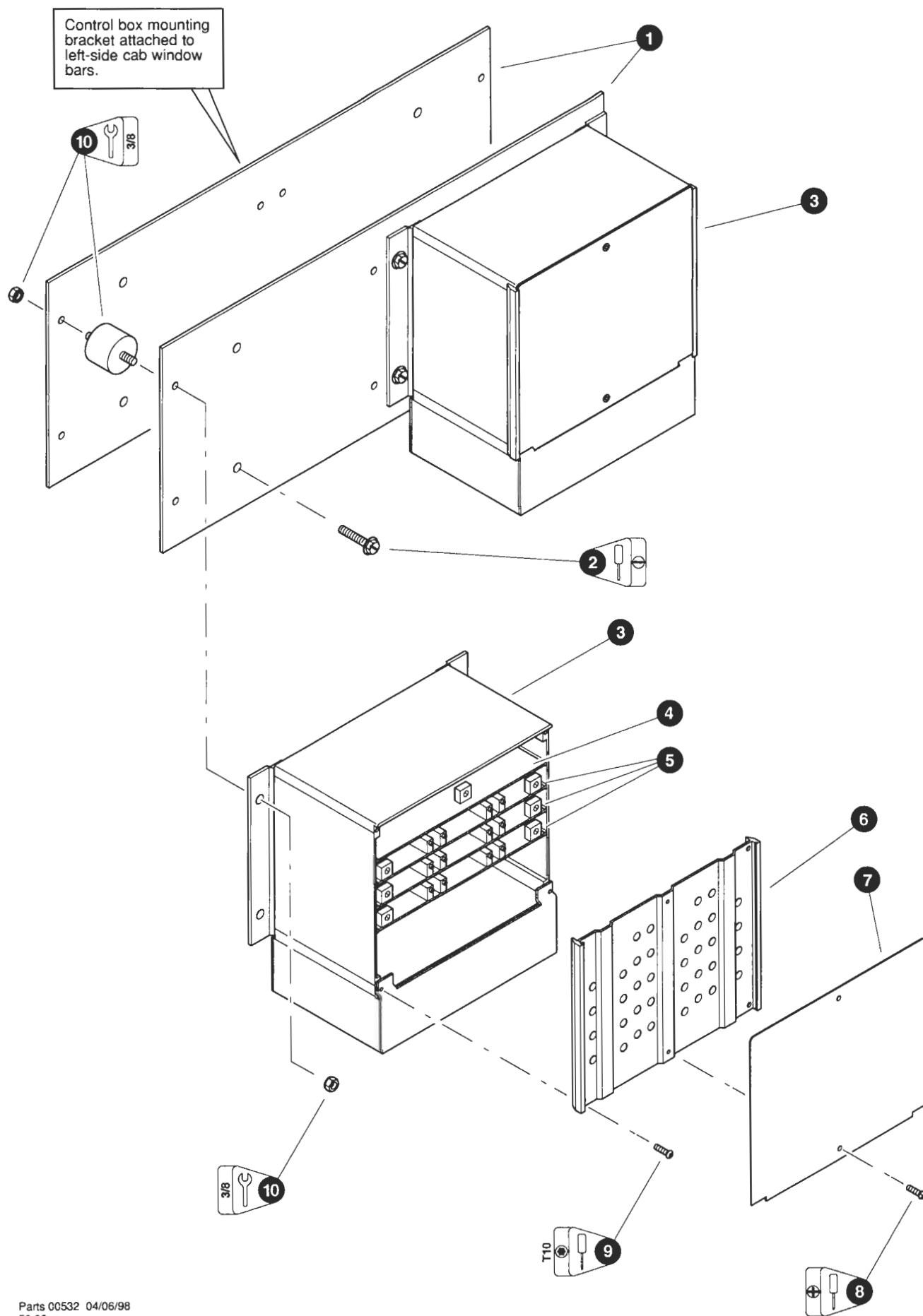
Parts 00456 02/17/98
 50.00

COMMAND CONTROL BOX (VOAC)

(Used on machines PDN# 046FWD and below)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19307	1		BRACKET, control box mounting	
2	18298	12		SCREW, slotted hex head - #10-24 x 3/4"	
3	19181	1	☐	CONTROL BOX - 3 function (Used as RH control box on all machines)	
	19180	1	☐	CONTROL BOX - 4 function (Used as LH control box on machines PDN# 038FWD and above)	
	19181	1	☐	CONTROL BOX - 3 function (Used as LH control box on machines PDN# 037FWD and below)	
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	

☐ Kit or Assembly - includes all items indented underneath.



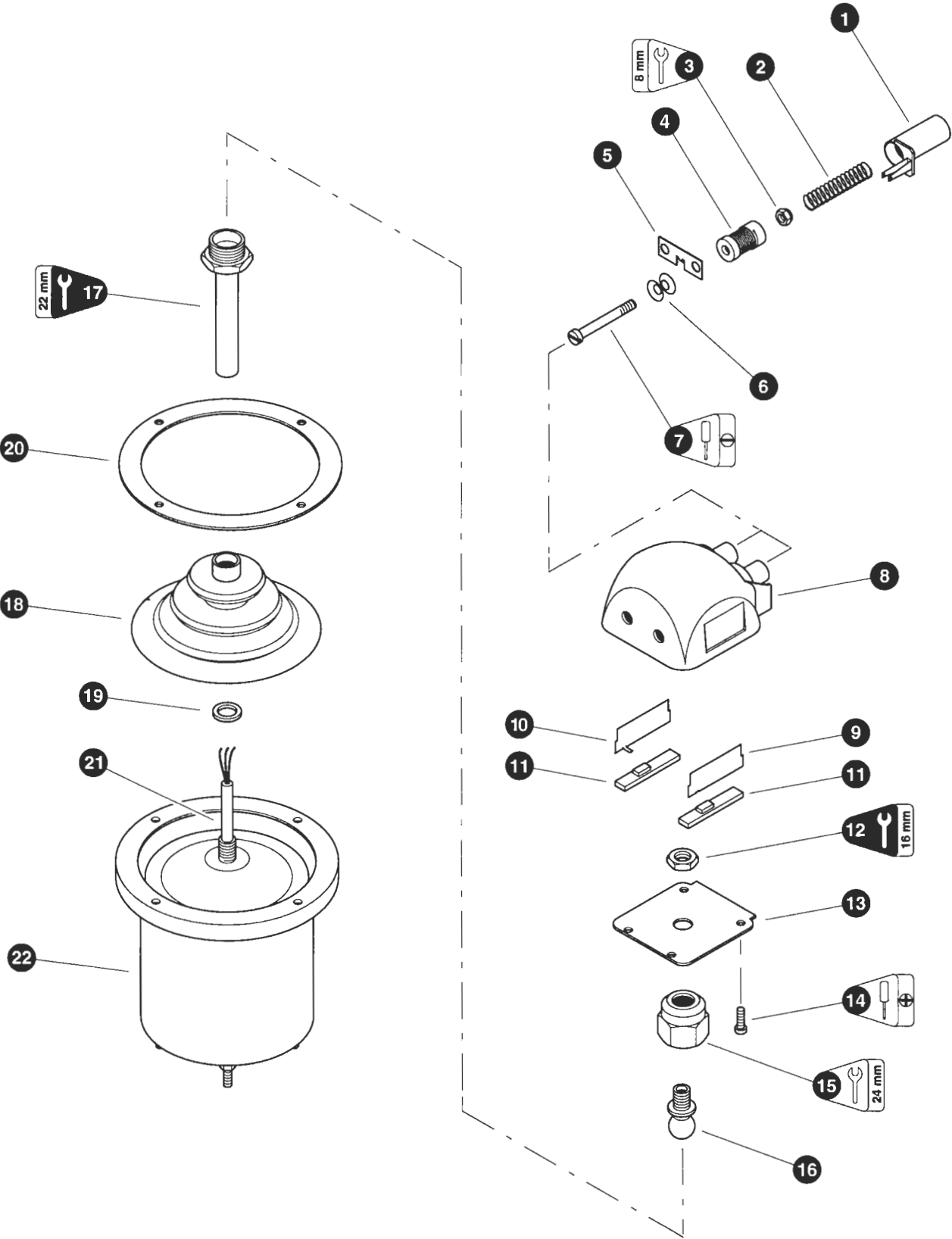
Parts 00532 04/06/98
50.00

COMMAND CONTROL BOX (VOAC)

(Used on machines PDN# 047FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19307	1		BRACKET, control box mounting	
2	18298	12		SCREW, slotted hex head - #10-24 x 3/4"	
3	19181	1	☐	CONTROL BOX - 3 function (Used as RH control box on all machines)	
	19180	1	☐	CONTROL BOX - 4 function (Used as LH control box on machines PDN# 038FWD and above)	
	19181	1	☐	CONTROL BOX - 3 function (Used as LH control box on machines PDN# 037FWD and below)	
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 (Includes mounting hardware)	

☐ Kit or Assembly - includes all items indented underneath.



Parts 00457 02/17/98
50.00

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

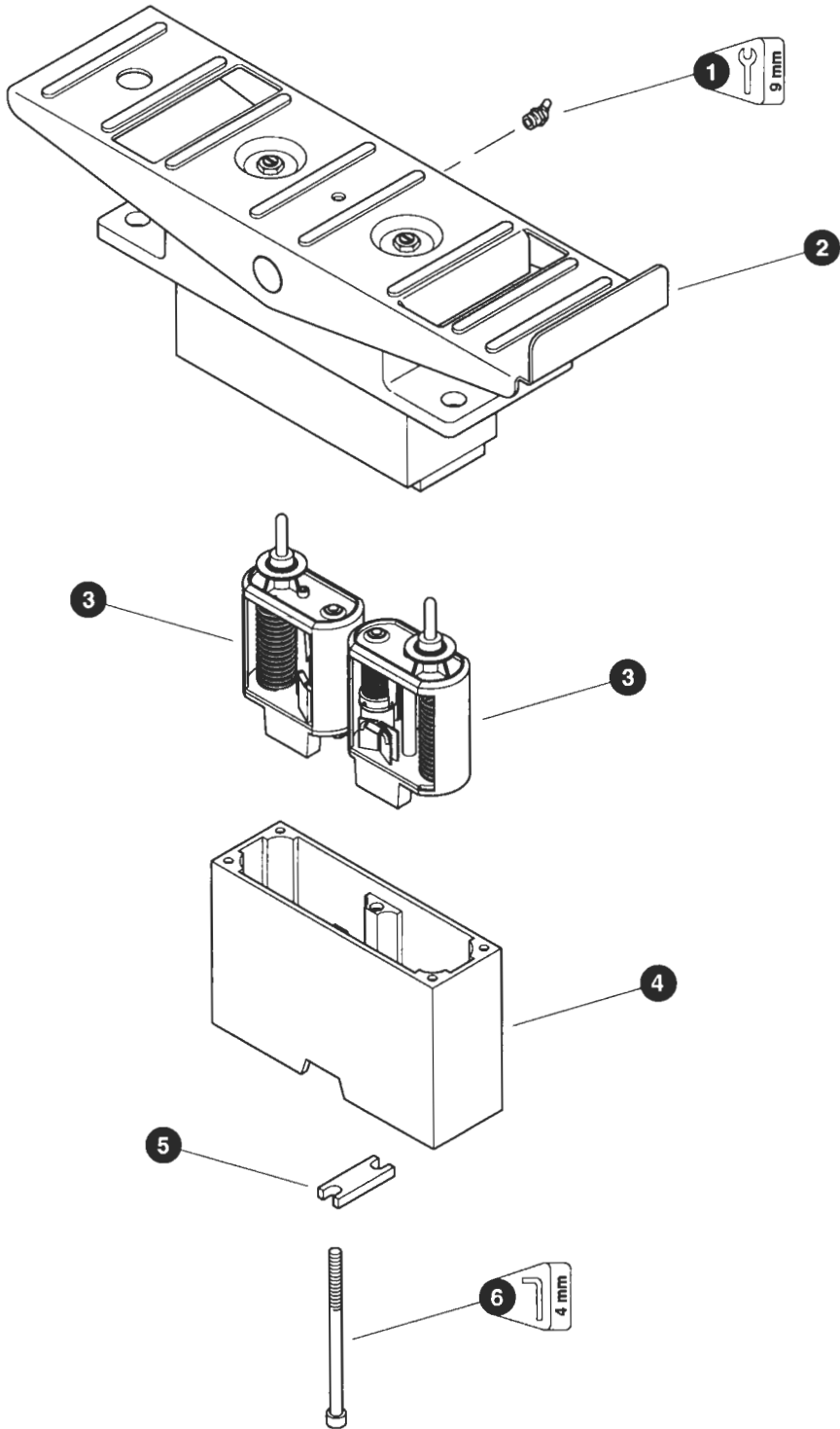
REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	19182	2	☐	HAND CONTROL, electronic - 3-axis	
1	20638	2		BUTTON, push	
2	20639	2		SPRING, push button switch	
3	20640	2		NUT, nylock - 4mm	
4	20641	2		POTENTIOMETER - 5 ohm	
5	22285	1		BRACKET, potentiometer mounting	
6	20642	16		SPRING, disc	
7	20643	2		SCREW, 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 (<i>Torque to 25 ft.lbs. (33 Nm)</i>)	
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 (<i>Torque to 12 ft.lbs. (15 Nm)</i>)	
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 housing components.



Parts 00455 02/17/98
62.50

ELECTRONIC FOOT PEDAL CONTROL*(Used on machines PDN# 038FWD and above)*

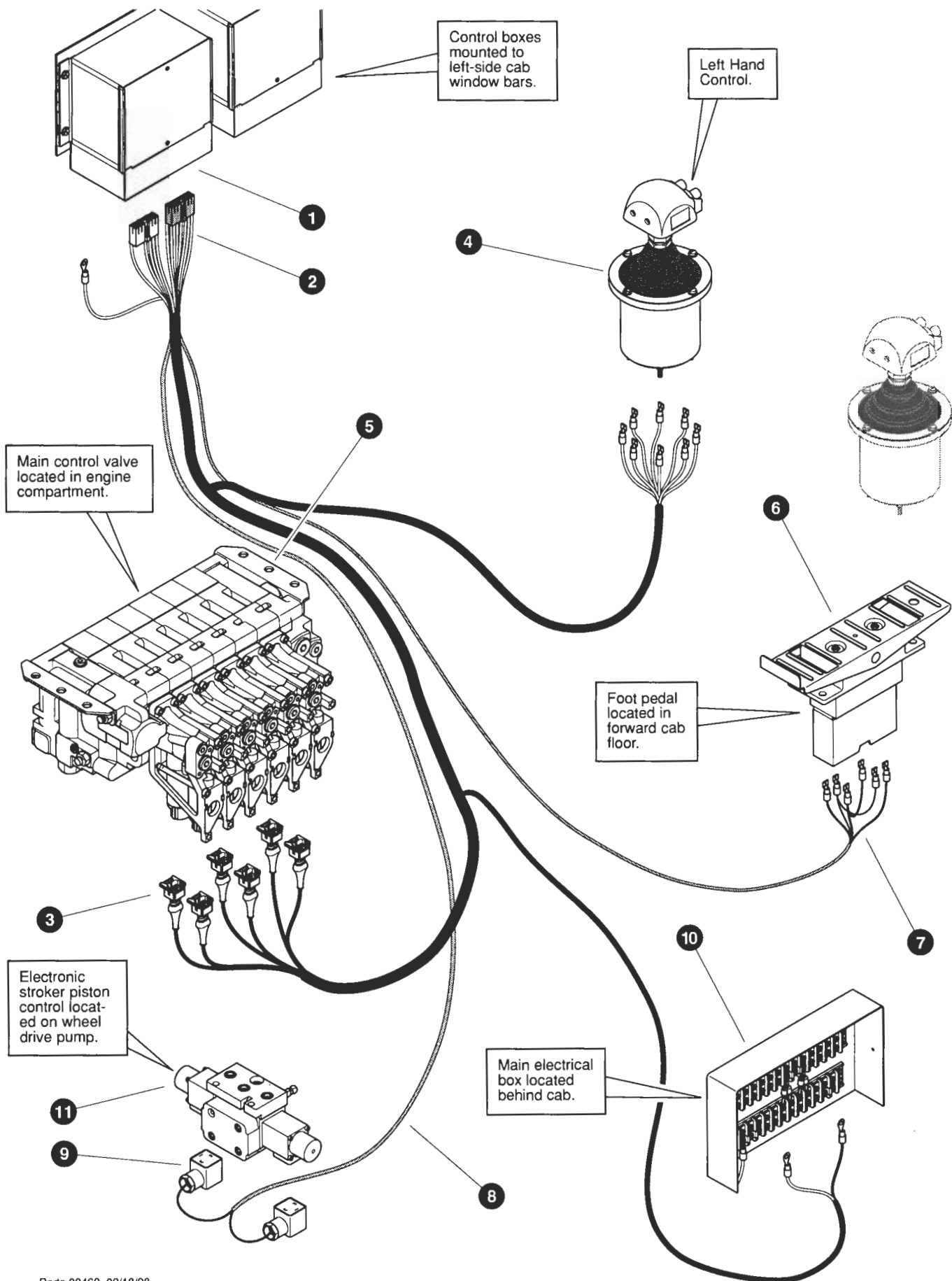
REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	20047	1	□	PEDAL, foot control - electronic	
1	20629	1		FITTING, 45° grease - 1/8" pipe thread	
2	NSS	1	①	UPPER FOOT PEDAL ASSEMBLY (See note below)	
3	20630	2		SWITCH, foot pedal - 12V (35 Ohm)	
	20681	2		SWITCH, foot pedal - 24V (50 Ohm)	
4	20631	1		HOUSING, lower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

□ Kit or Assembly - includes all items indented underneath.

① Contact your TIMBCO dealer for additional information.

Note:

Do not disassemble the upper foot pedal components.

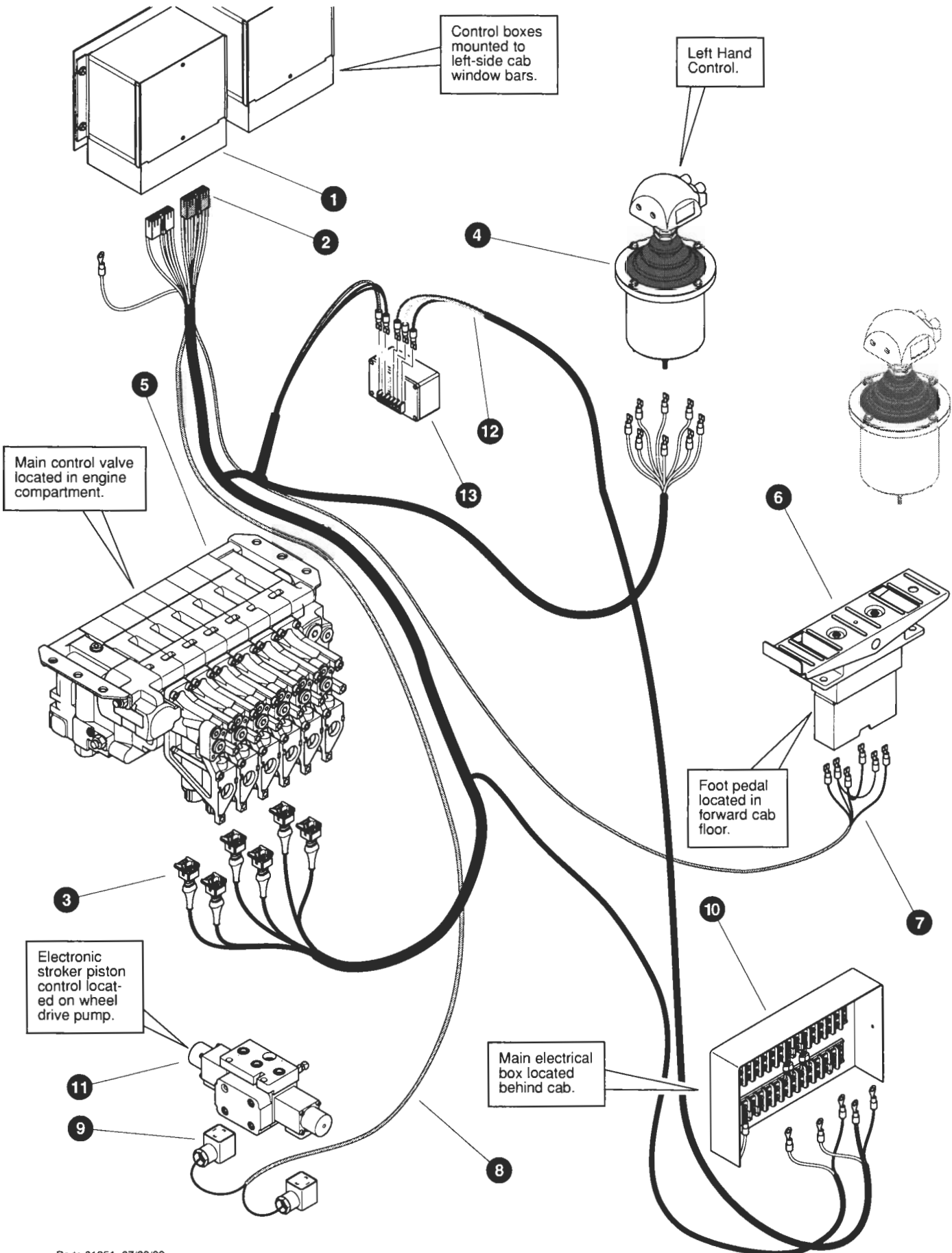


Parts 00460 02/18/98
25.00

HYDRO-ELECTRIC CONNECTIONS - LH**(LH Electronic Joystick/Foot Pedal Controls, Command Control Box & Main Control Valve)***(Used on machines PDN# 042FWD and below)*

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" (Foot pedal to LH command control box)	
8	20657	1	□	HARNESS, wire - electronic foot pedal "B" (LH command control box to wheel drive pump stroke control)	
9	17145	2		CONNECTOR, hirschmann	
10	REF.	1	✓	MAIN ELECTRICAL BOX	J.3.8

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



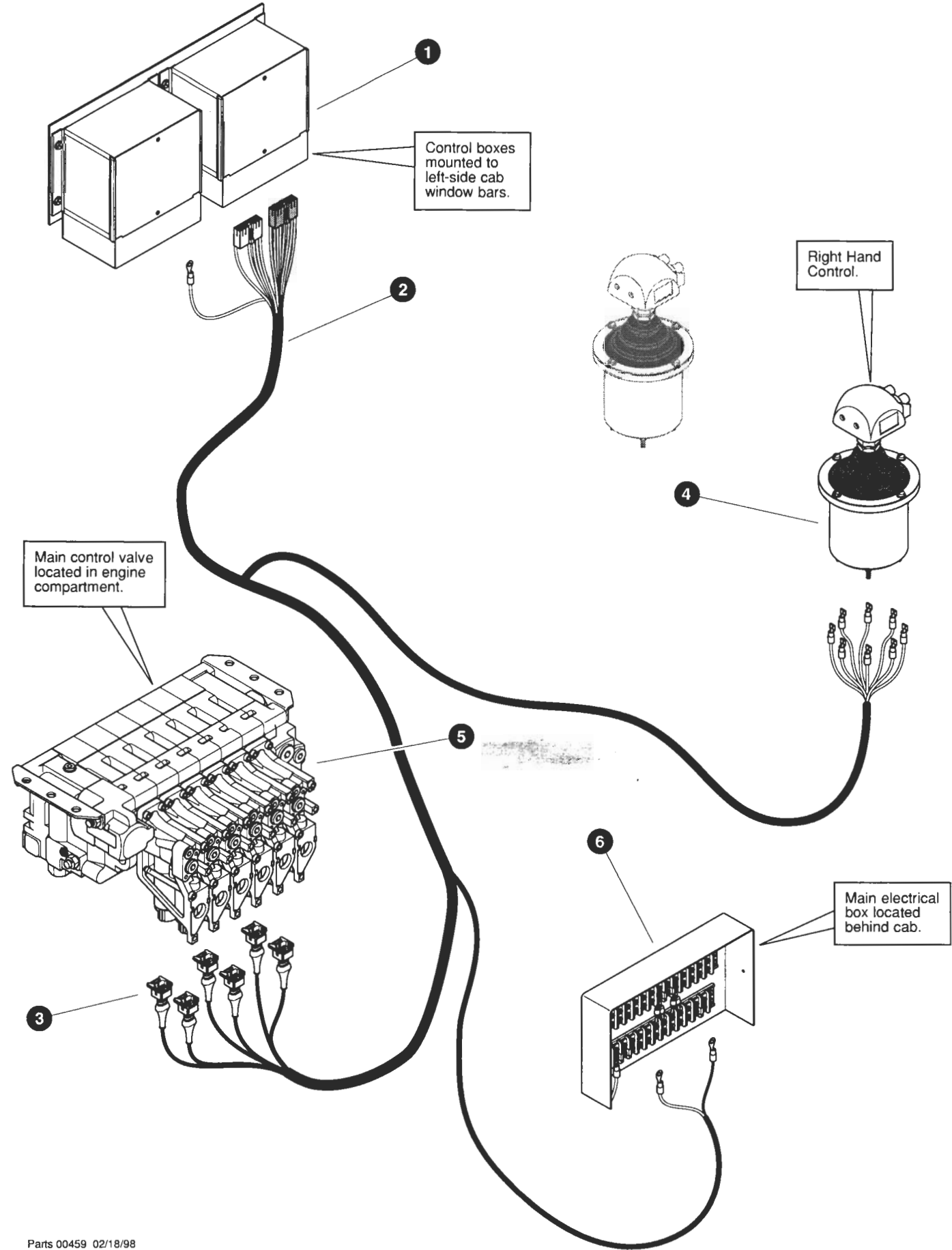
Parts 01251 07/29/99
25.00

HYDRO-ELECTRIC CONNECTIONS - LH**(LH Electronic Joystick/Foot Pedal Controls, Command Control Box & Main Control Valve)***(Used on machines PDN# 043FWD and above)*

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" (Foot pedal to LH command control box)	
8	20657	1	□	HARNESS, wire - electronic foot pedal "B" (LH command control box to wheel drive pump stroke control)	
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" (LH command control box to horsepower limiting control box to main electrical box)	
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

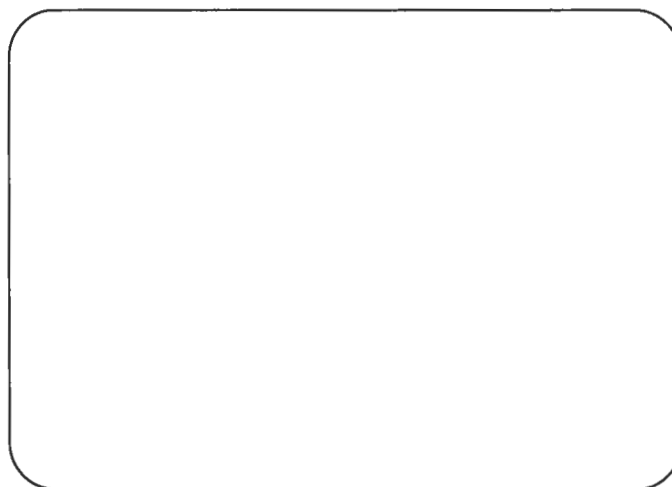
(RH Electronic Joystick Control, Command Control Box & Main Control Valve)

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

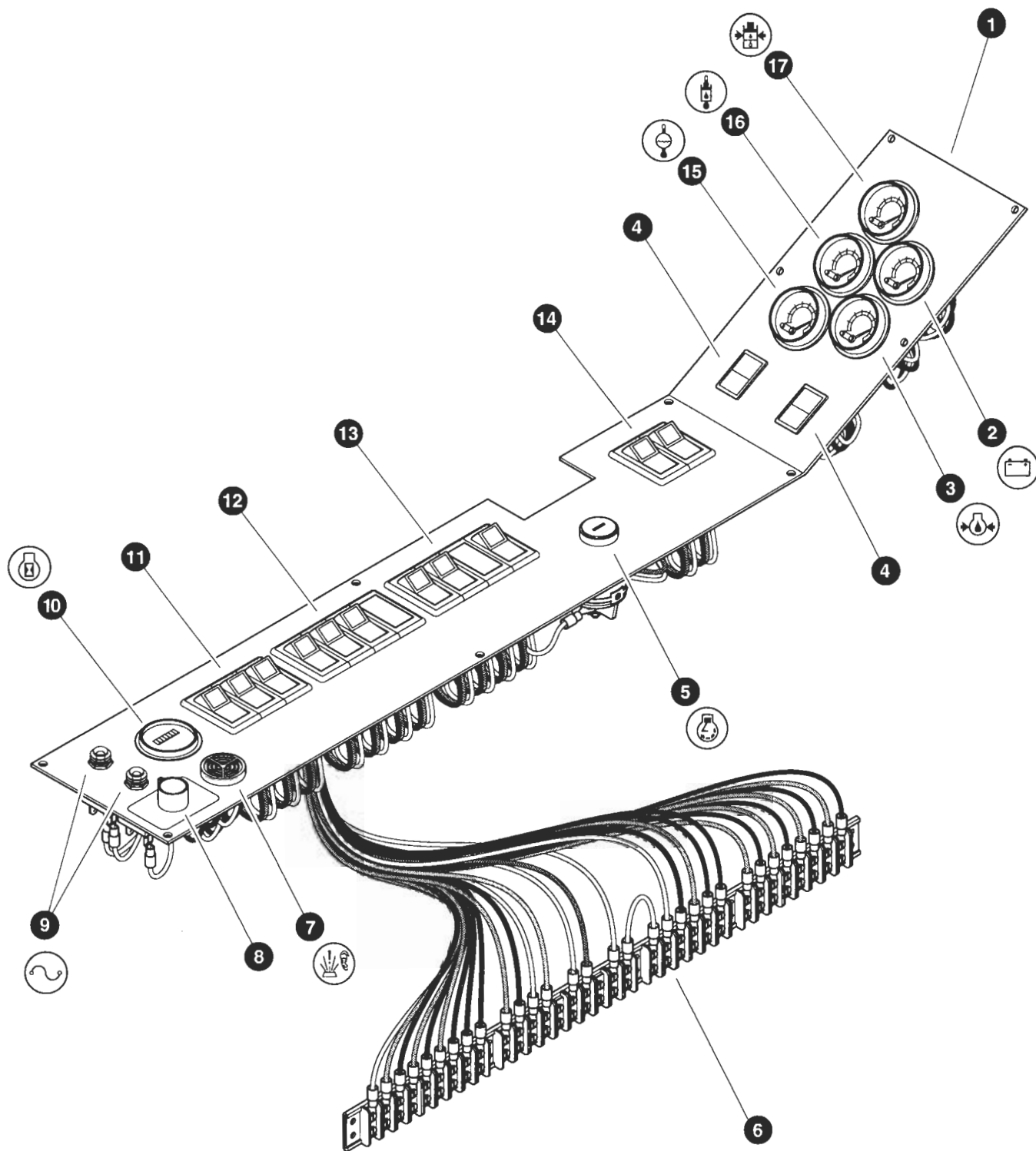
✓ See referenced page for component or assembly breakdown.

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Section J.3



Electrical System - Cab & Auxiliary



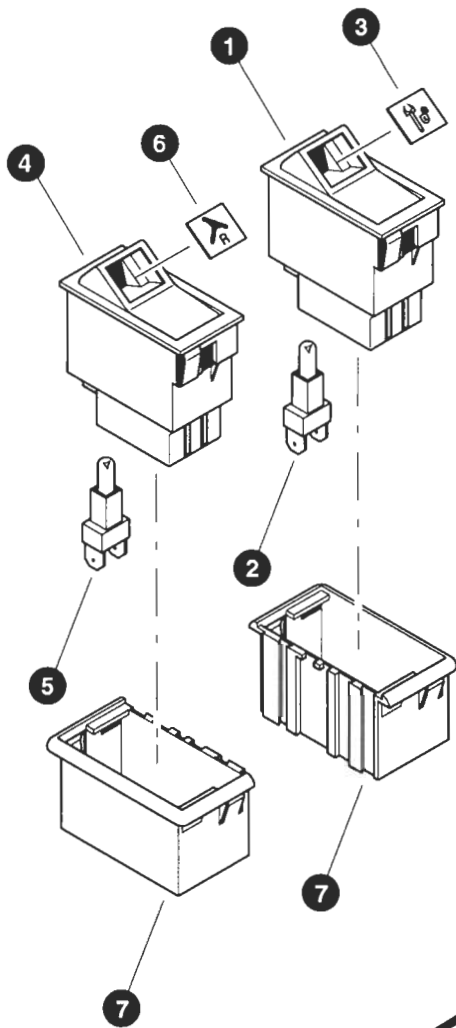
Parts 00507 03/17/98
37.50

DASH PANEL COMPONENTS

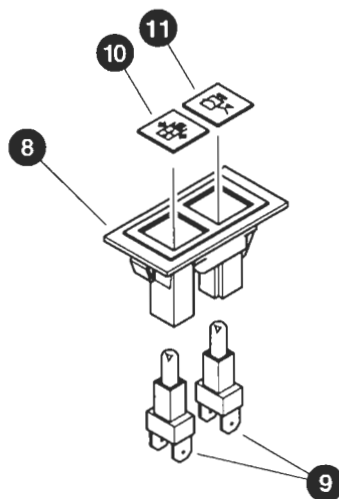
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	19711	1	☐	PANEL, dash	
2	15026	1		GAUGE, voltmeter	
3	18167	1	☐	GAUGE, engine oil pressure	
	19362	1		LIGHT, gauge	
4	REF.	2		WARNING LIGHT CLUSTER	J.3.4
5	15028	1	☐	SWITCH, ignition	
	16936	1		KEY, ignition (NG100)	
6	20913	1		STRIP, terminal - 20 terminal	
7	15027	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.

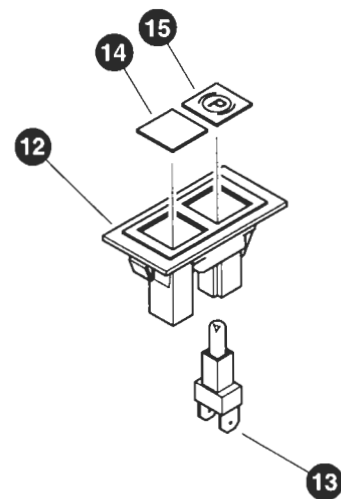
✓ See referenced page for component or assembly breakdown.



Swing Detent & Reverse
Steer Rocker Switch Cluster



Warning Light Cluster

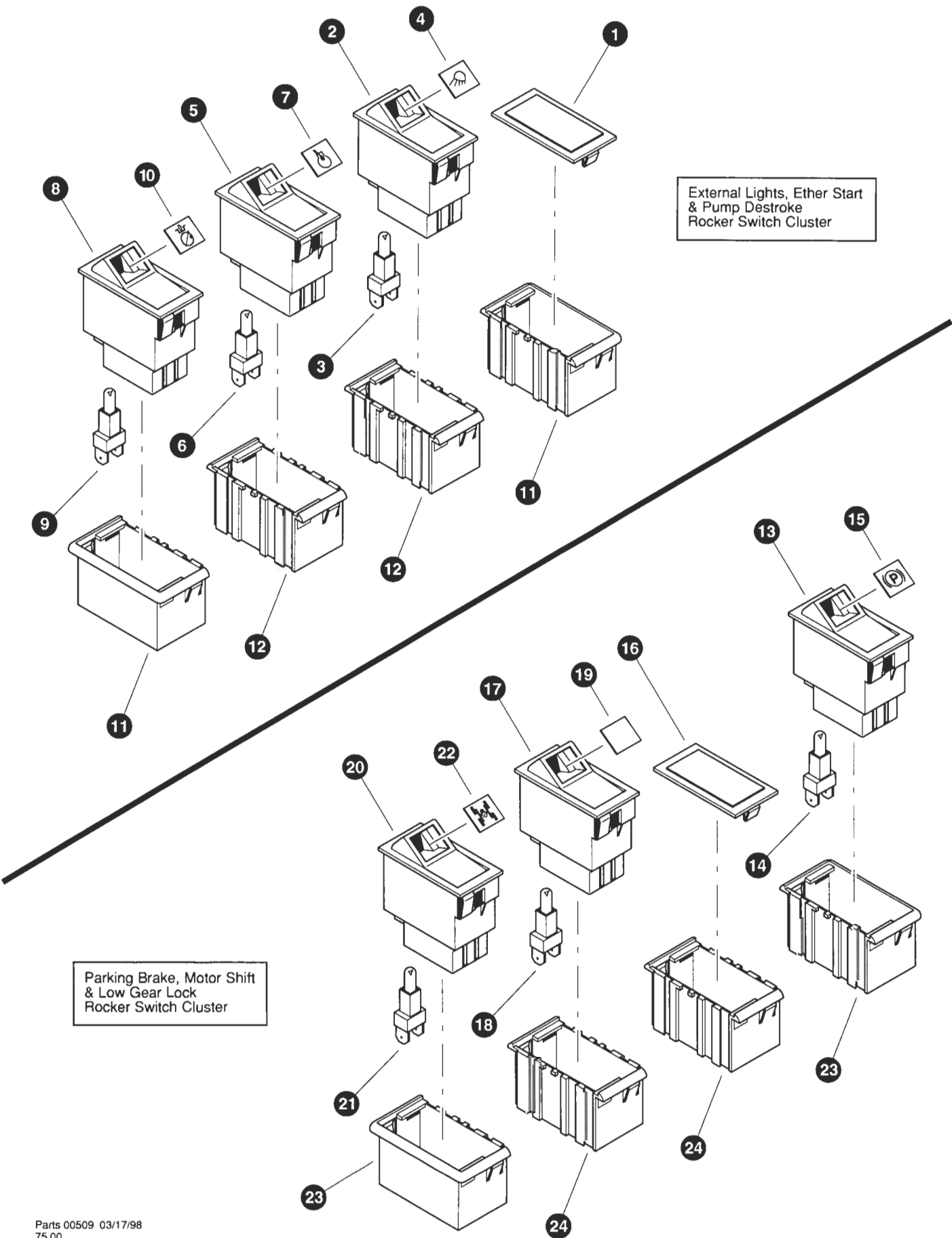


ROCKER SWITCH & WARNING LIGHT CLUSTERS

(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.

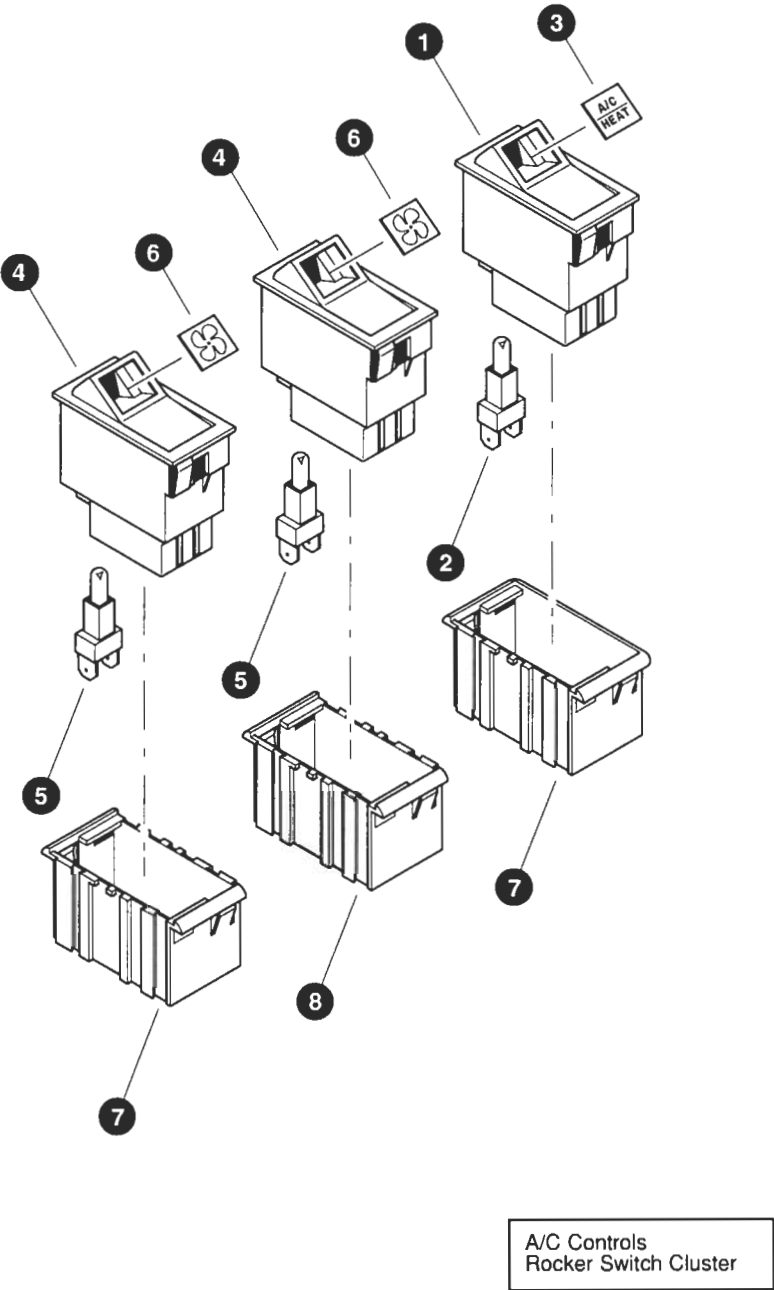


ROCKER SWITCH & WARNING LIGHT CLUSTERS

(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.

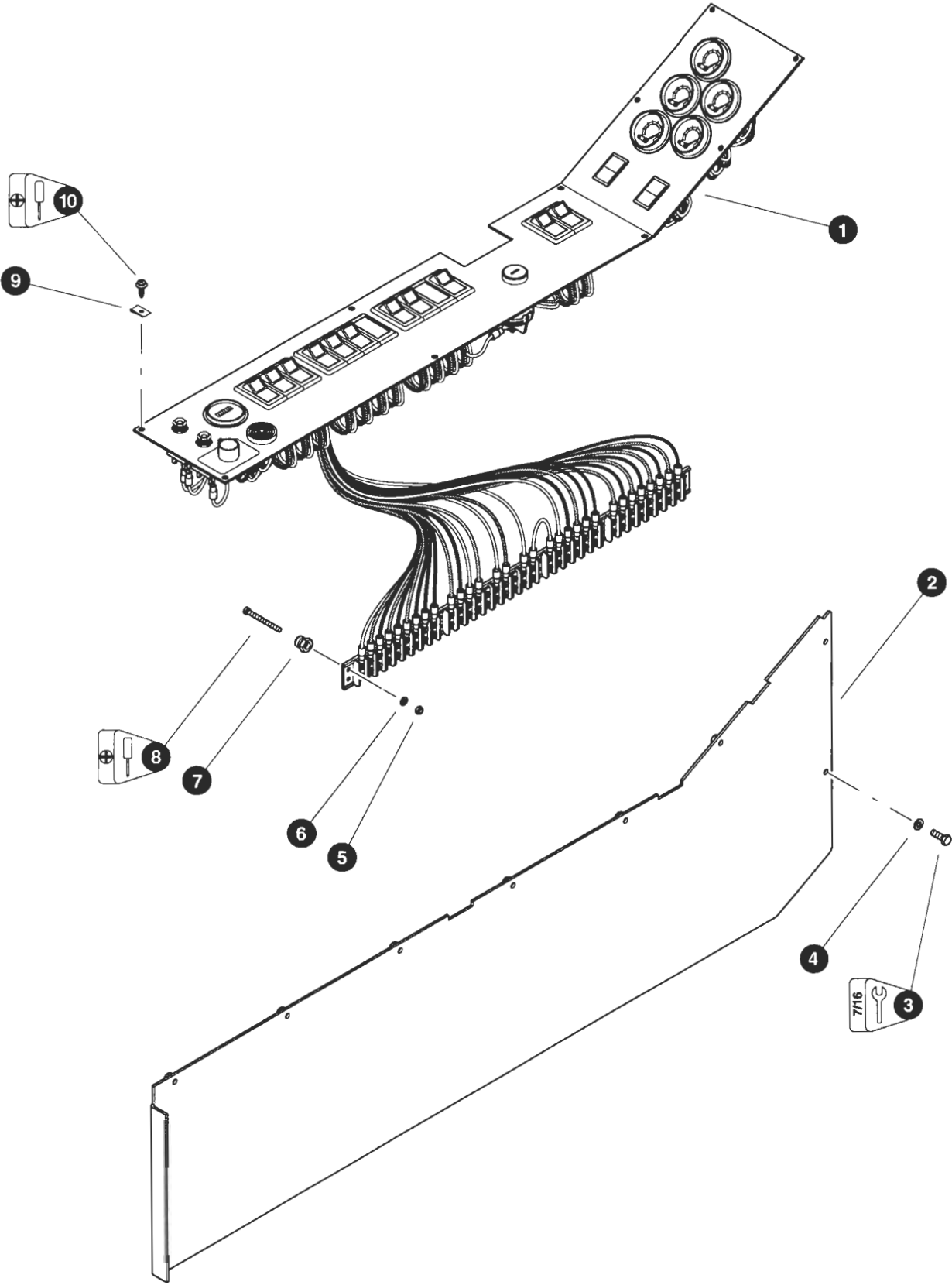


ROCKER SWITCH & WARNING LIGHT CLUSTERS

(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.

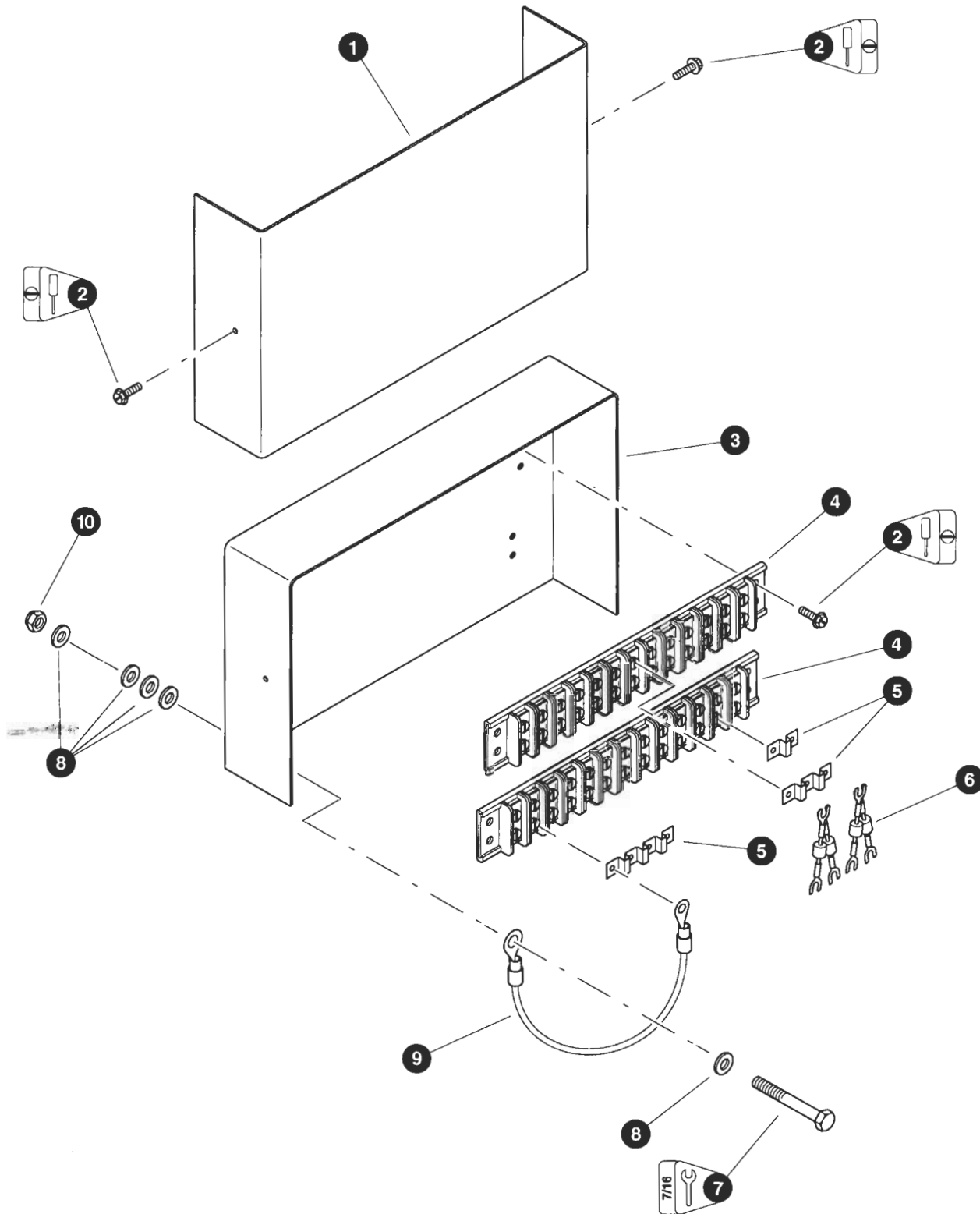


Parts 00511 03/18/98
25.00

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	

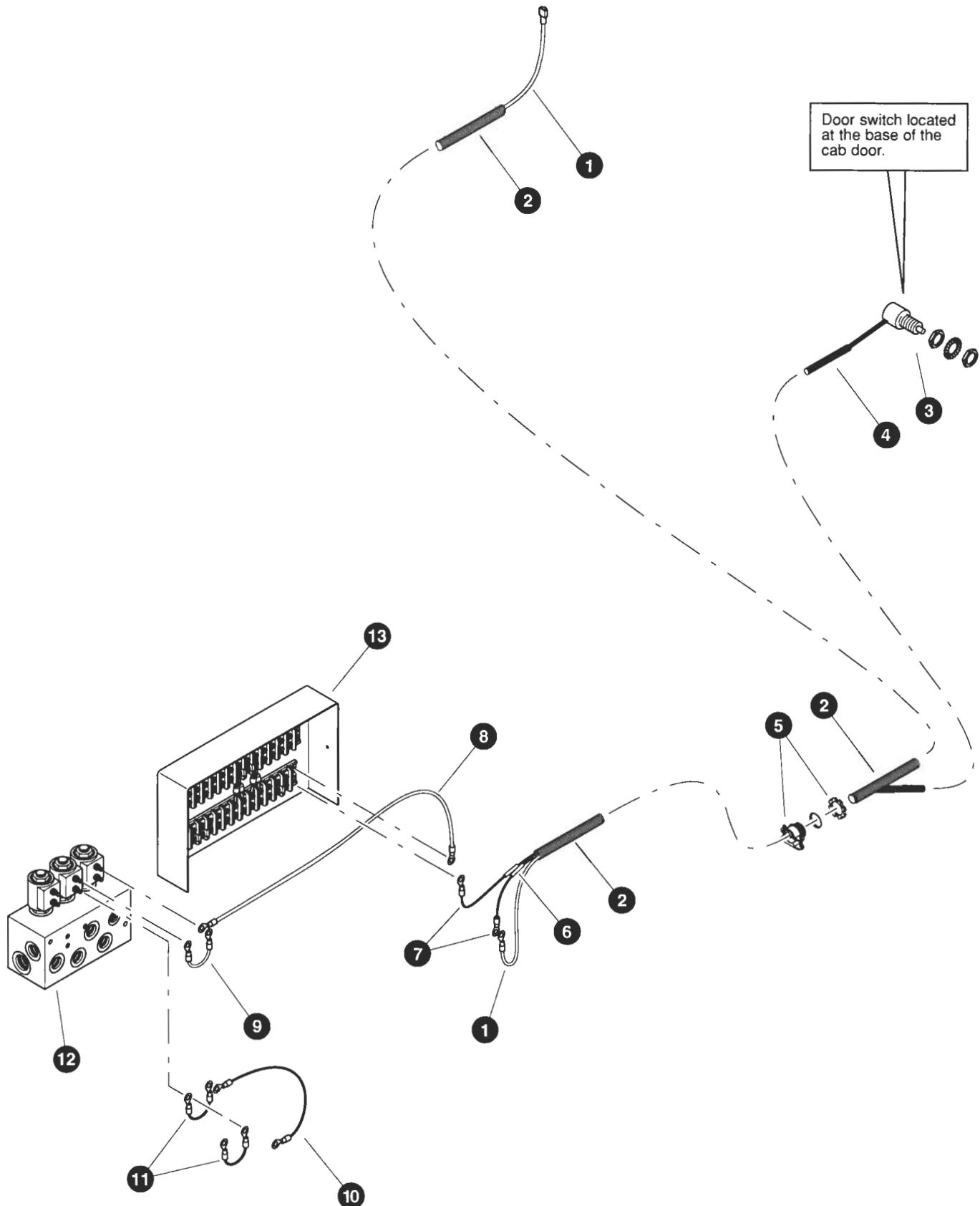
✓ See referenced page for component or assembly breakdown.



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"	



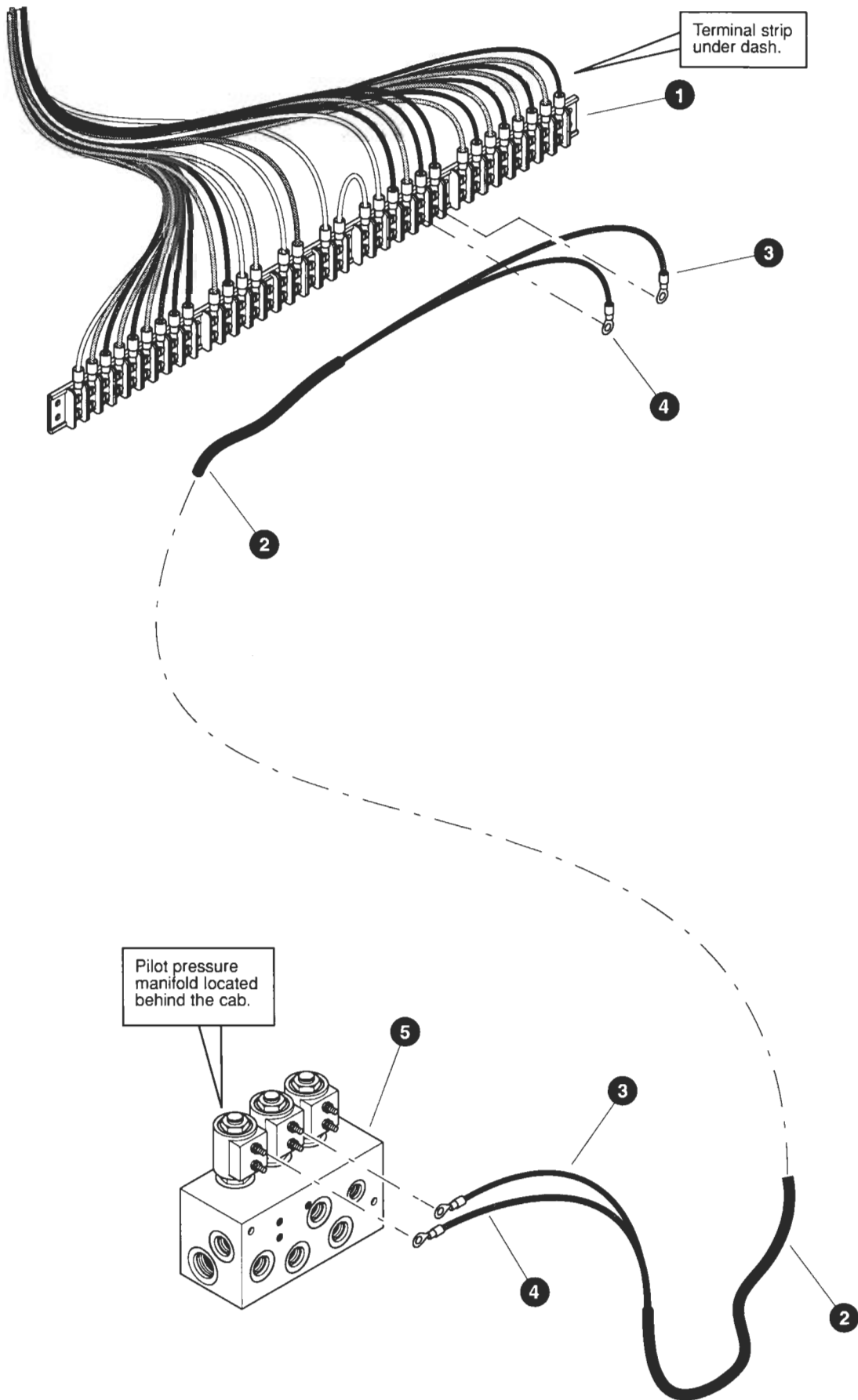
Parts 01372 09/30/99
25.00

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 meters.

✓ See referenced page for component or assembly breakdown.

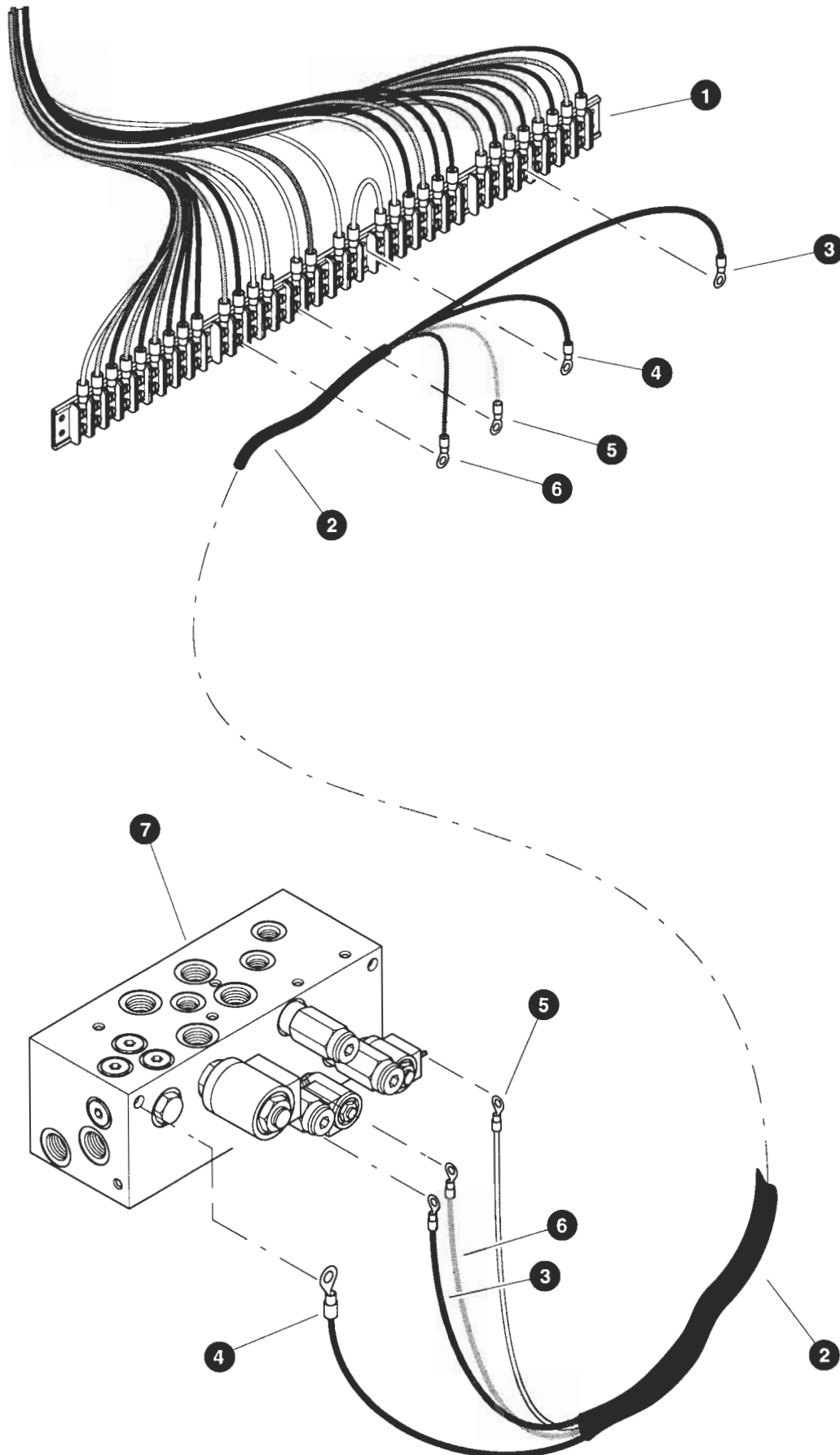


Parts 01373 09/30/99
37.50

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.

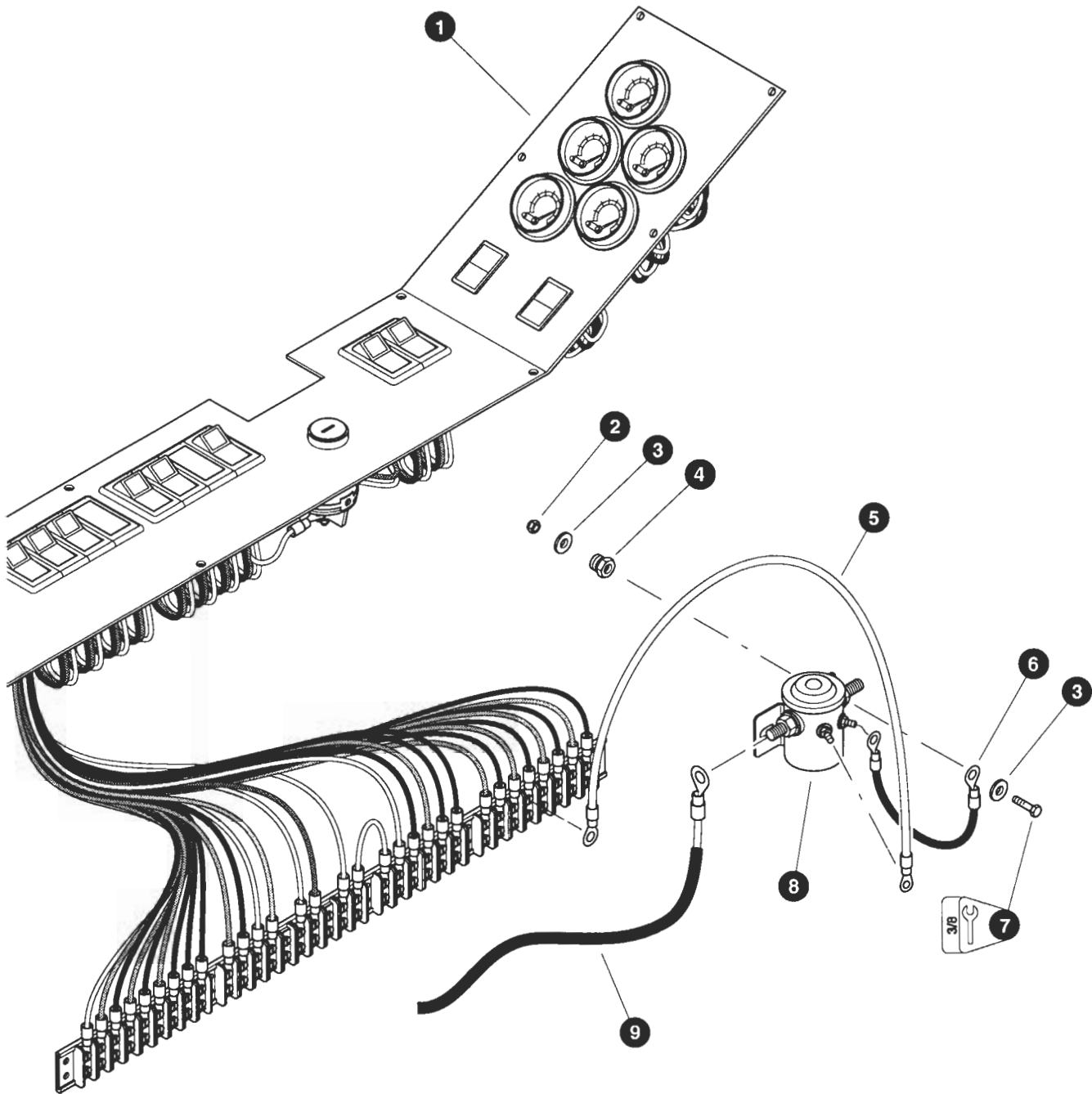


Parts 01377 10/01/99
37.50

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 DETENT 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.

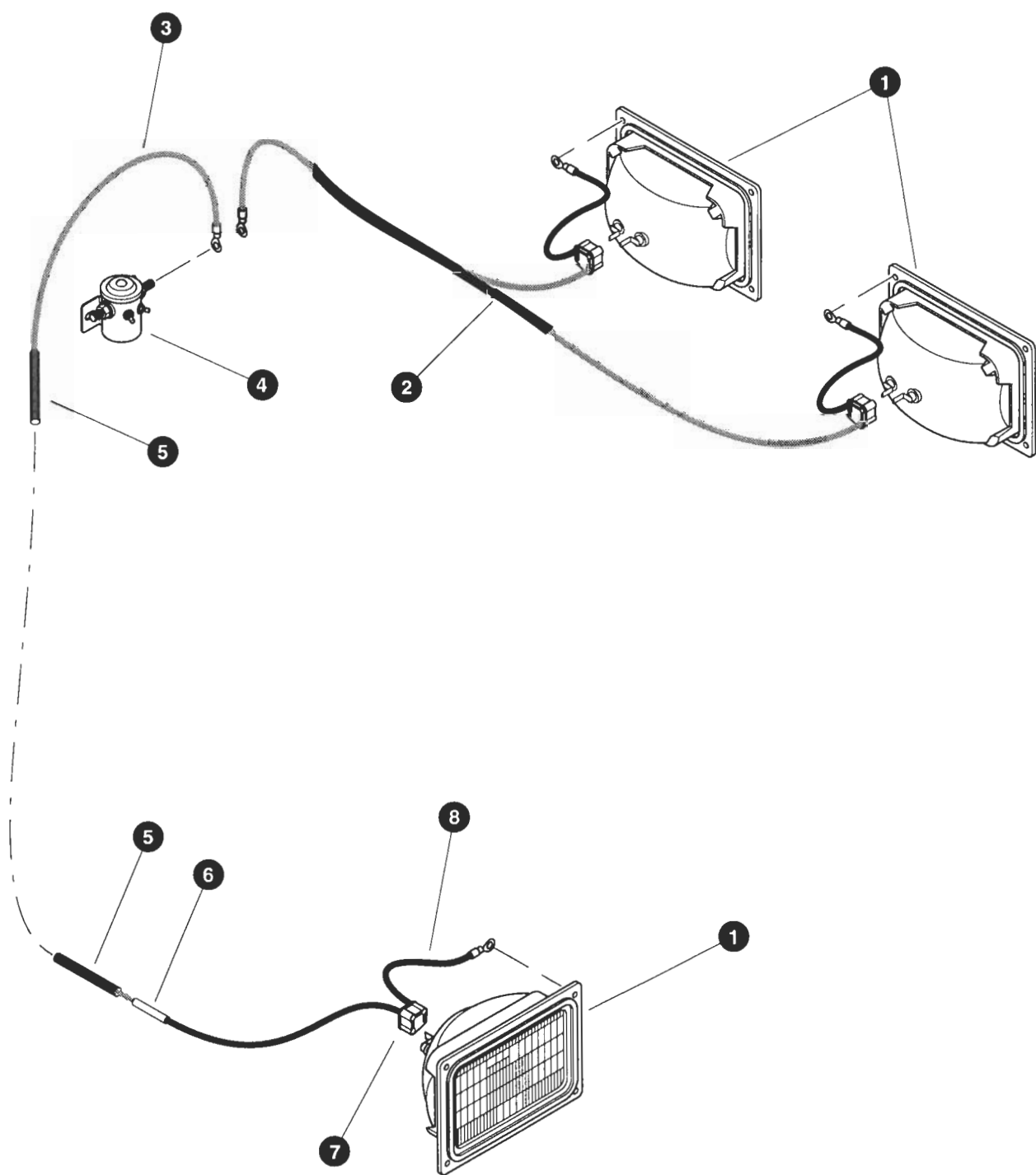


HALOGEN WORK LIGHT INSTALLATION

(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.

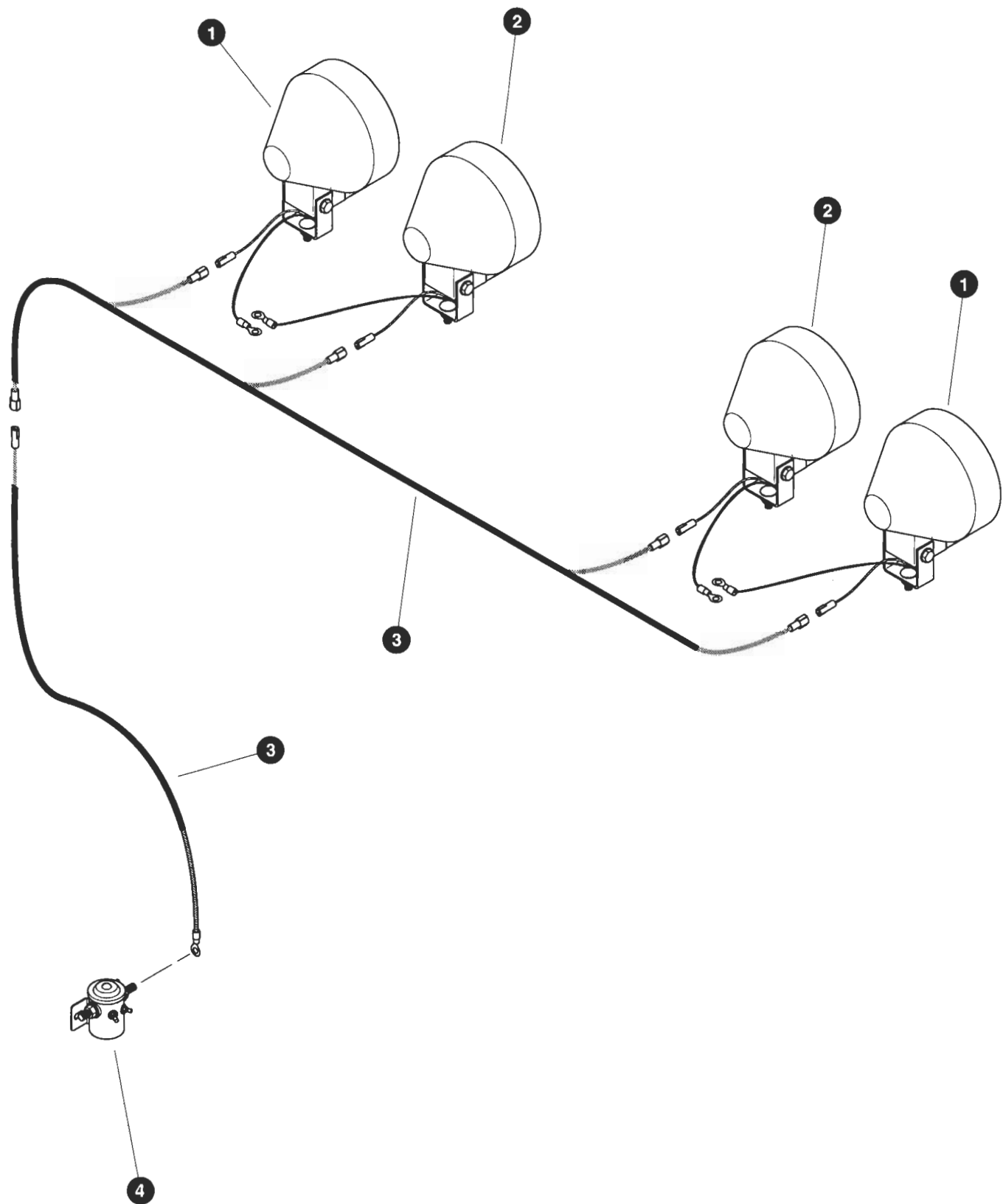


HALOGEN WORK LIGHT INSTALLATION (Lower Flush Mount Lights)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
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 meters.

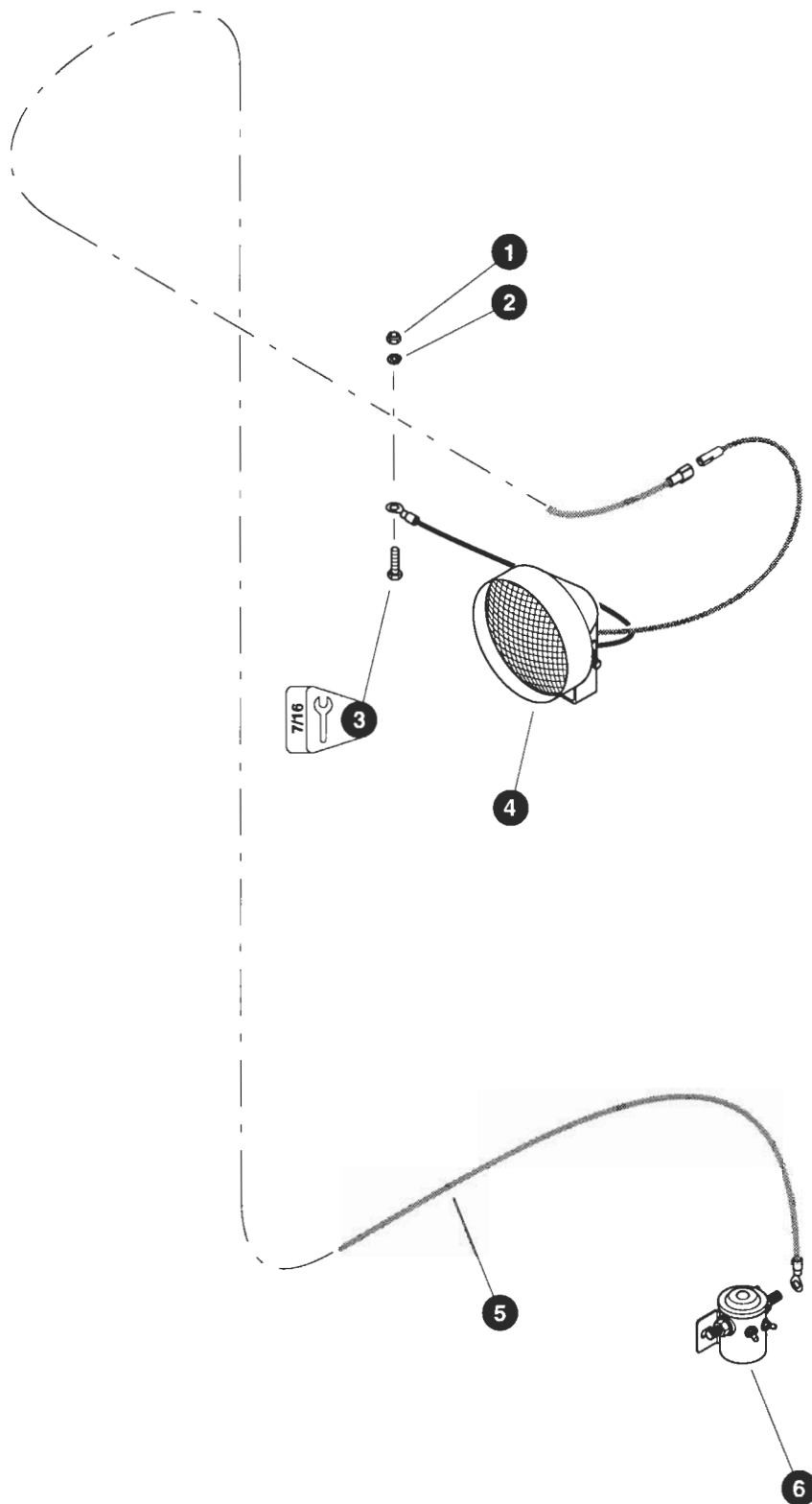


HALOGEN WORK LIGHT INSTALLATION

(Cab Visor Mounted Lights - Round)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	16043	2		LIGHT, spot trapezoidal	
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.

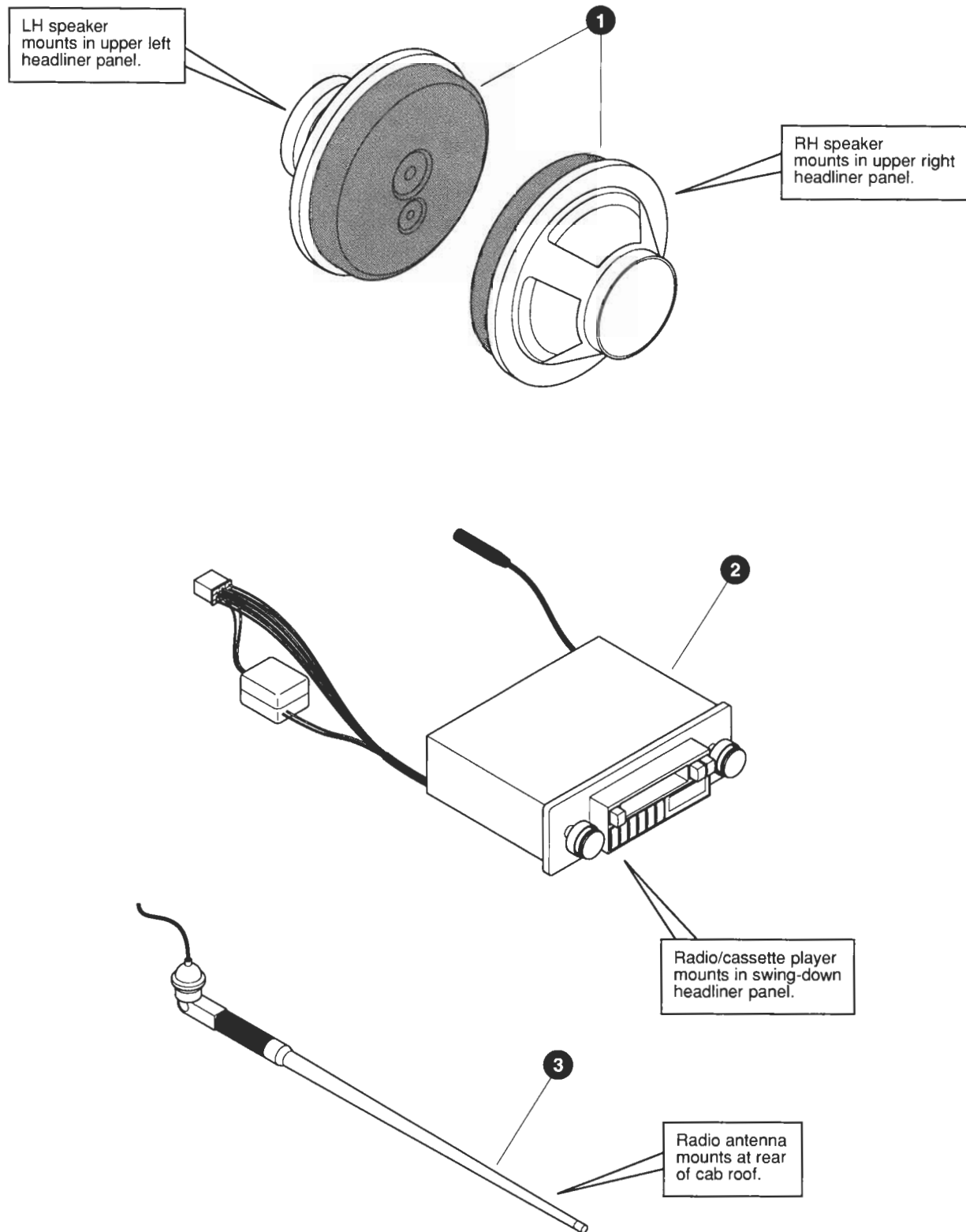


Parts 01376 09/30/99
25.00

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.

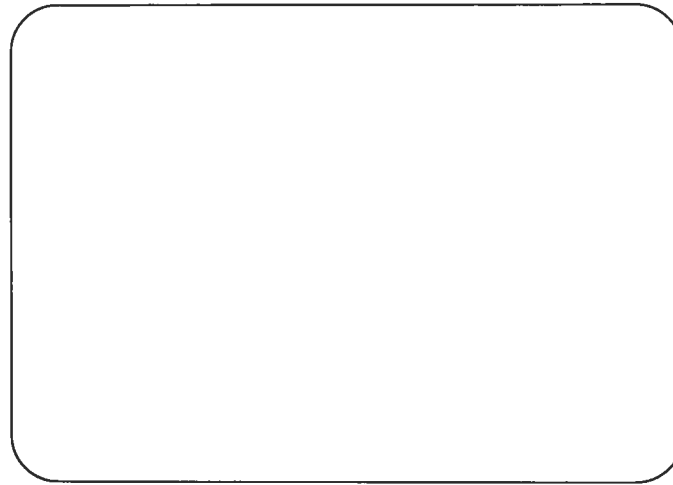


AM/FM RADIO/CASSETTE PLAYER COMPONENTS

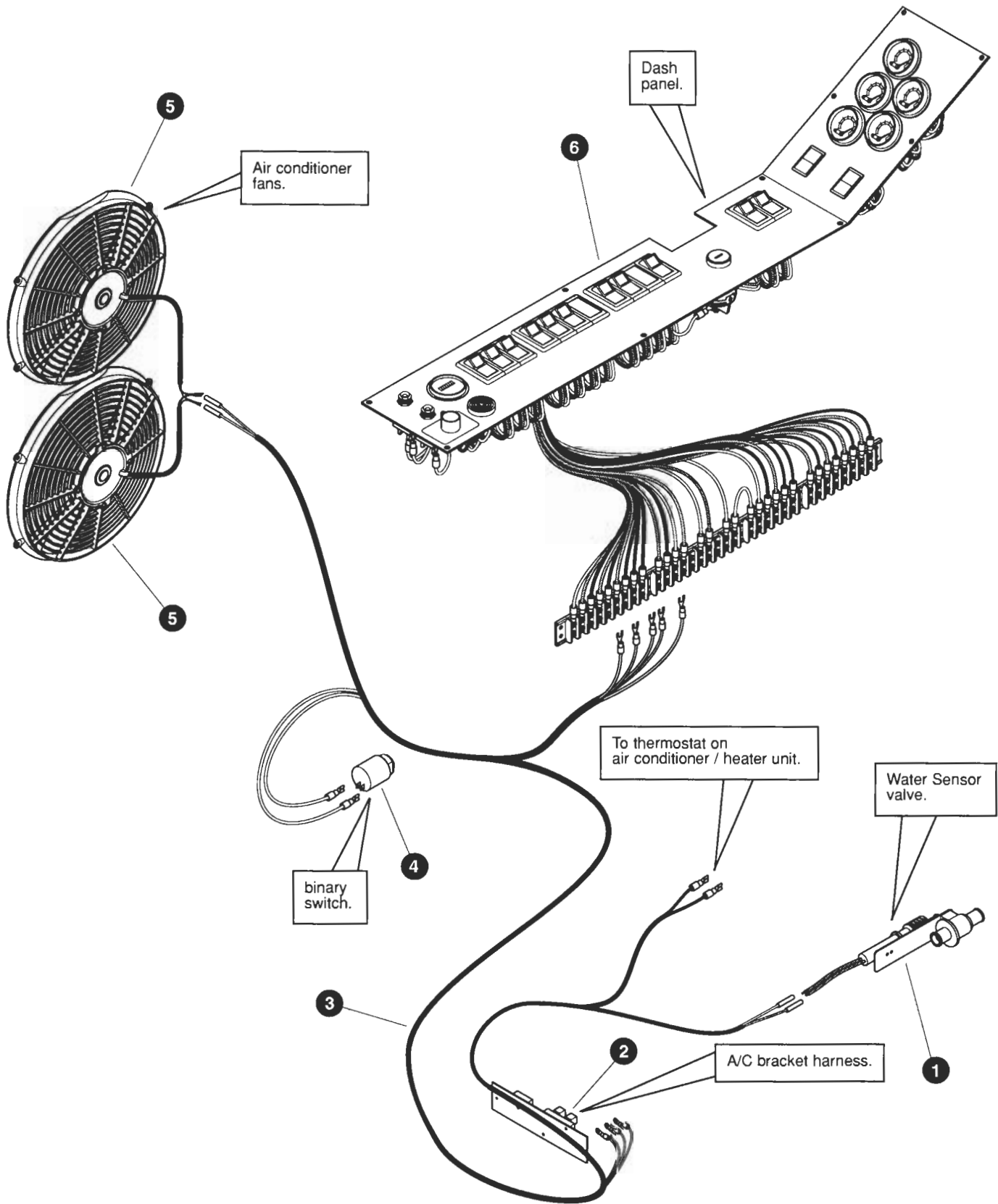
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	19968	2	SPEAKER	
2	22395	1	AM/FM RADIO/CASSETTE PLAYER	
3	16966	1	ANTENNA, radio	

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Section J.4



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



AIR CONDITIONER /HEATER INSTALLATION

(A/C Wire Harness Installation)

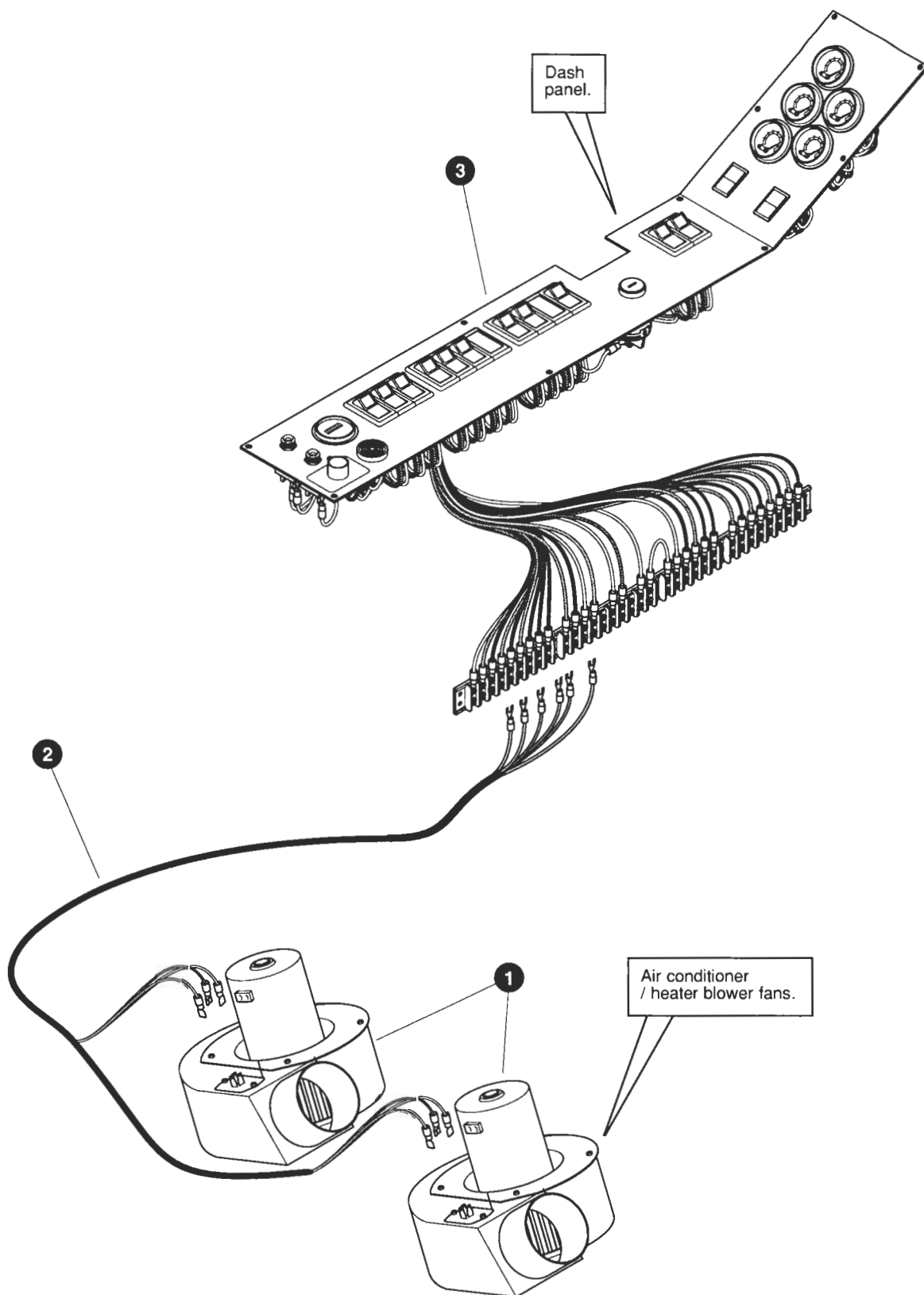
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20899	1		VALVE, water sensor	
2	REF.	1	✓	A/C BRACKET HARNESS	G.4.3
3	22871	1		HARNESS - A/C	
4	REF.	1	✓	BINARY SWITCH	G.4.14
5	REF.	2	✓	MOTOR / FAN ASSEMBLY	G.4.10
6	REF.	1	✓	DASH PANEL	J.3.2

✓ See referenced page for component or assembly breakdown.

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.

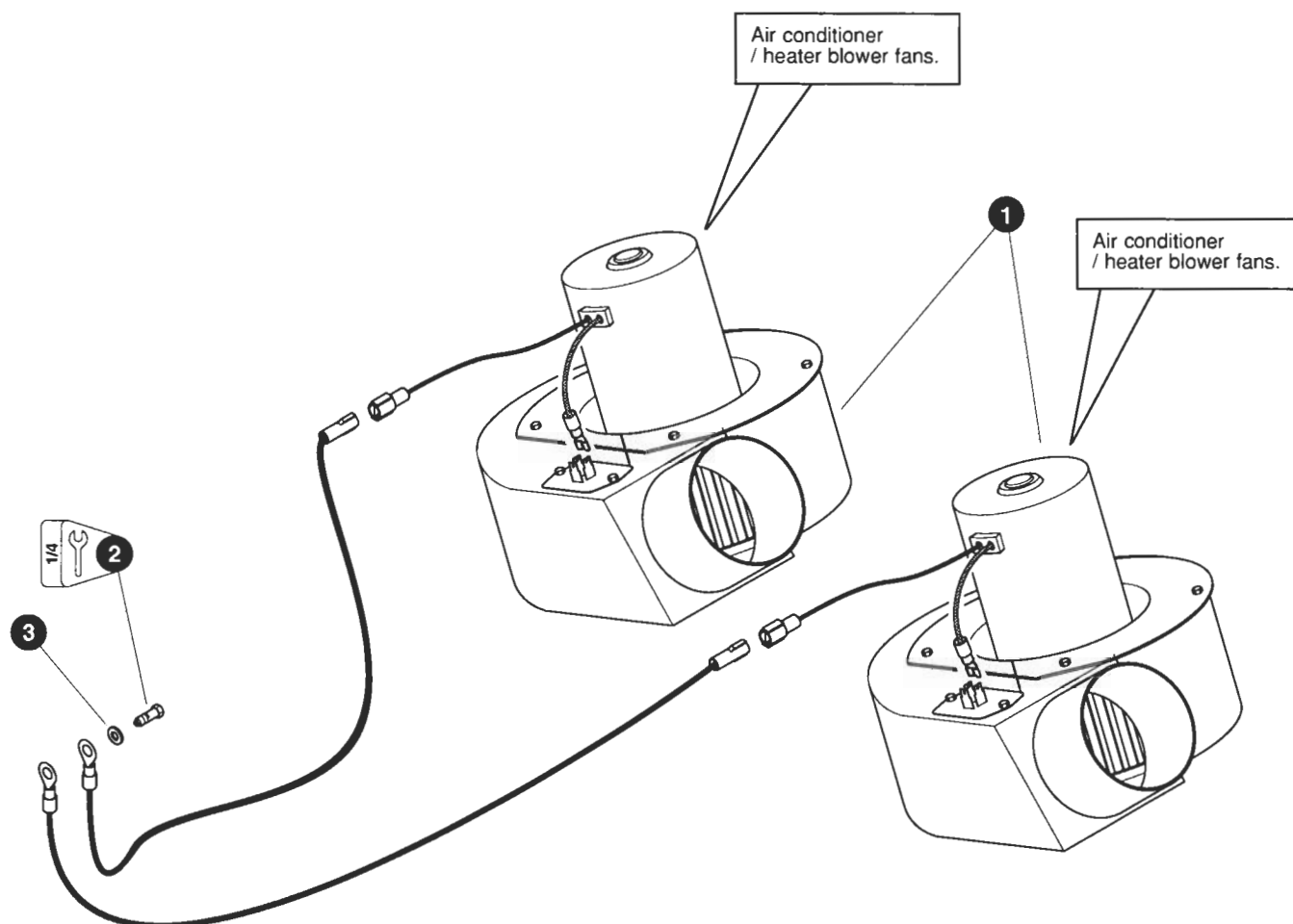


All components shown are mounted in the rear cab.

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

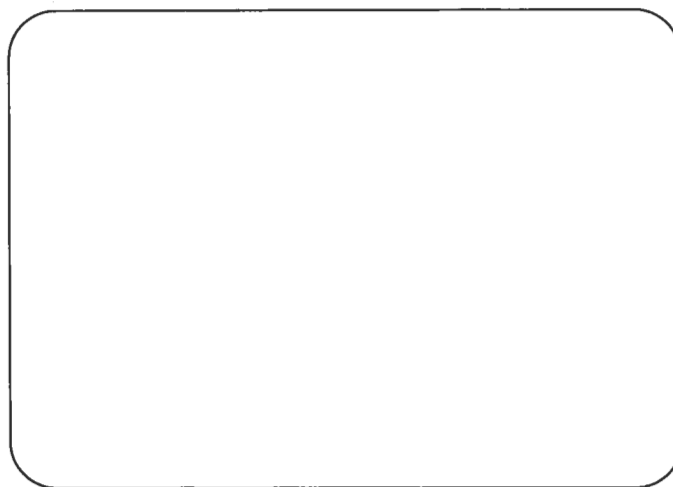
All components shown are
mounted in the rear cab.

AIR CONDITIONER FAN ELECTRICAL CONNECTIONS

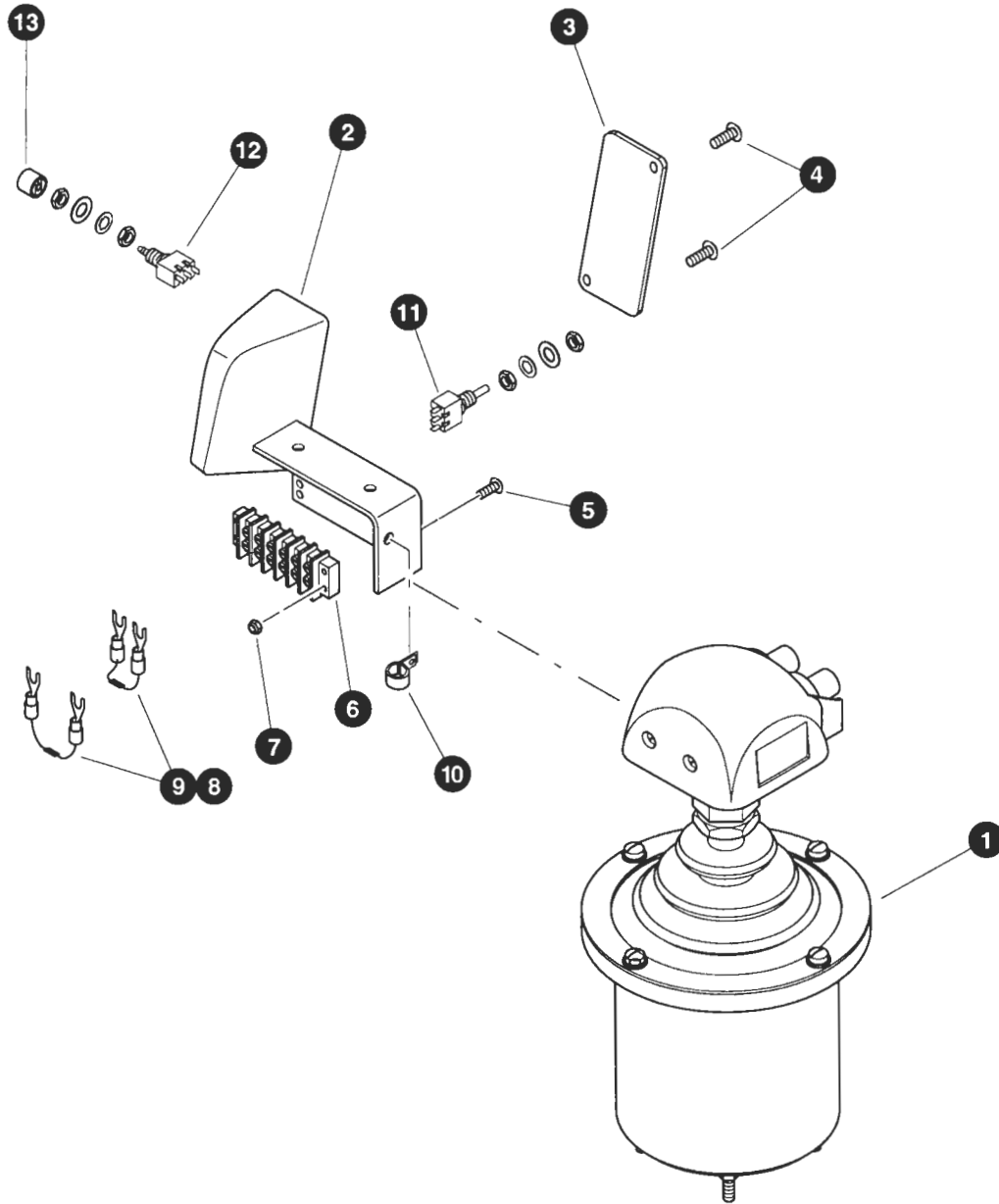
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FANS, Air conditioner / heater unit	G.4.2
2	15669	1		SCREW, machine - 10-24 x 1/2"	
3	16208	1		WASHER, flat #10	

✓ See referenced page for component or assembly breakdown.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Electrical System - Clam-Bunk Controls



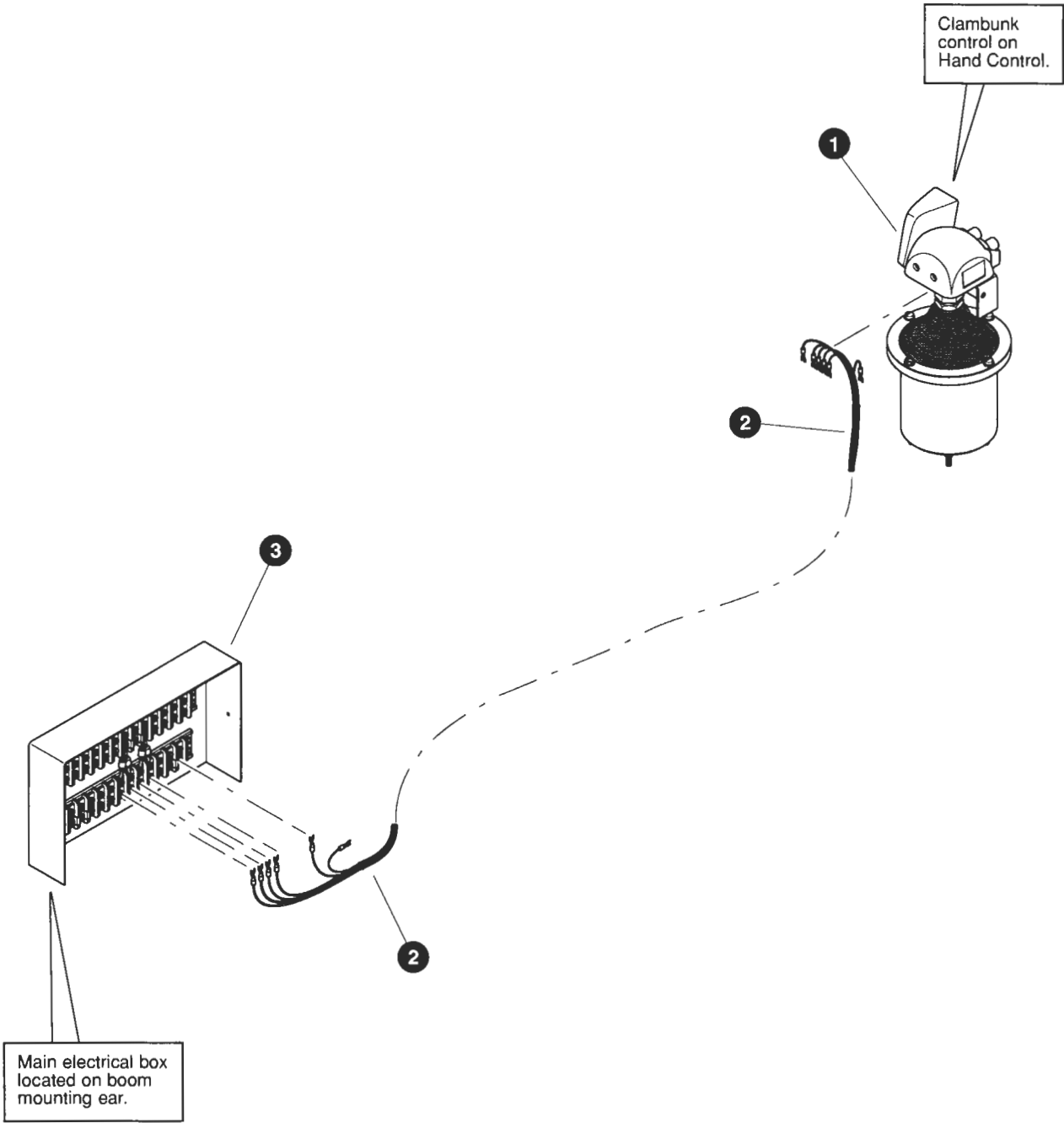
Parts 01498 12/03/99
50.00

ELECTRONIC HAND (CLAMBUNK) CONTROL

(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.

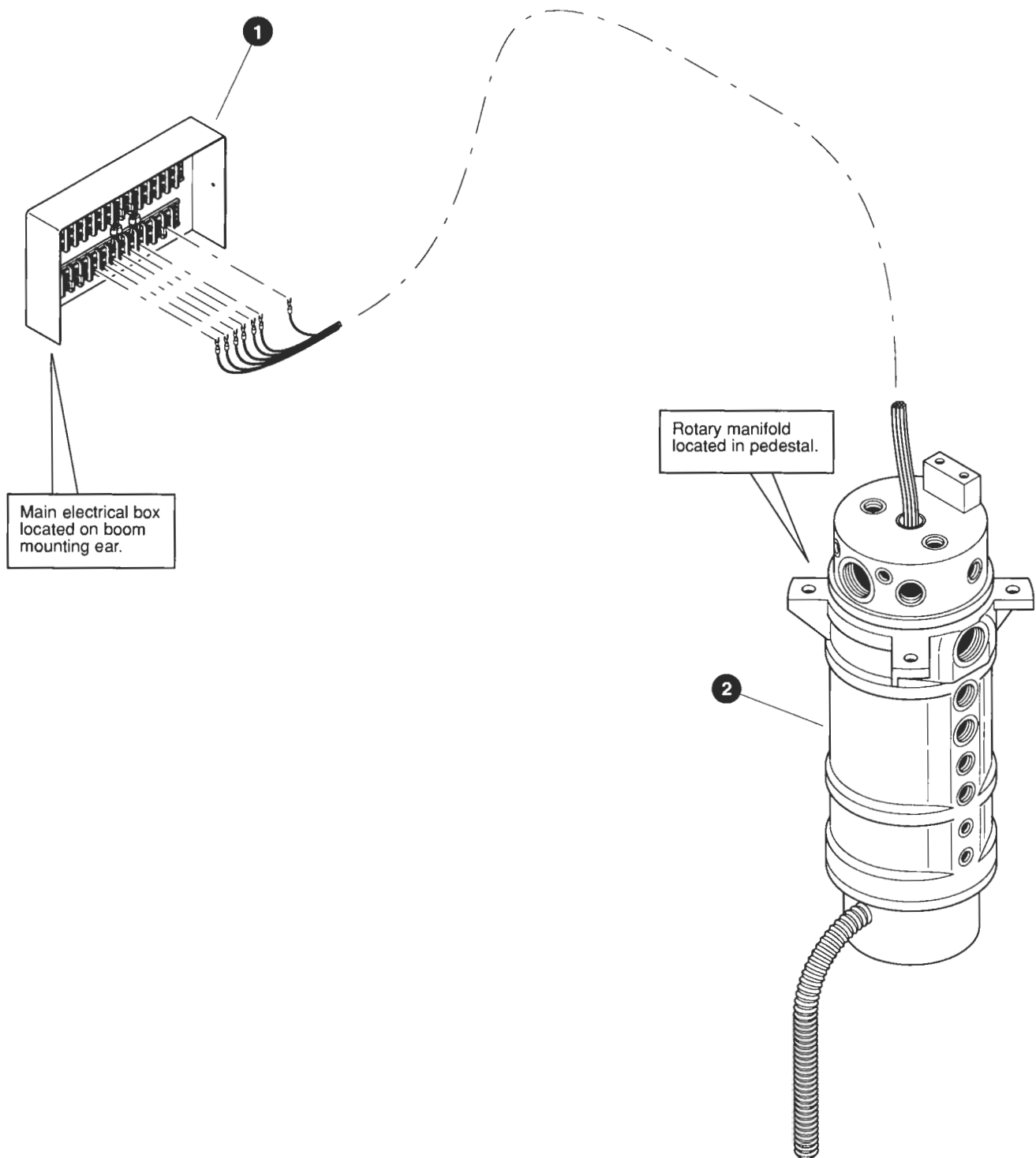


ELECTRICAL CONNECTIONS

(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.



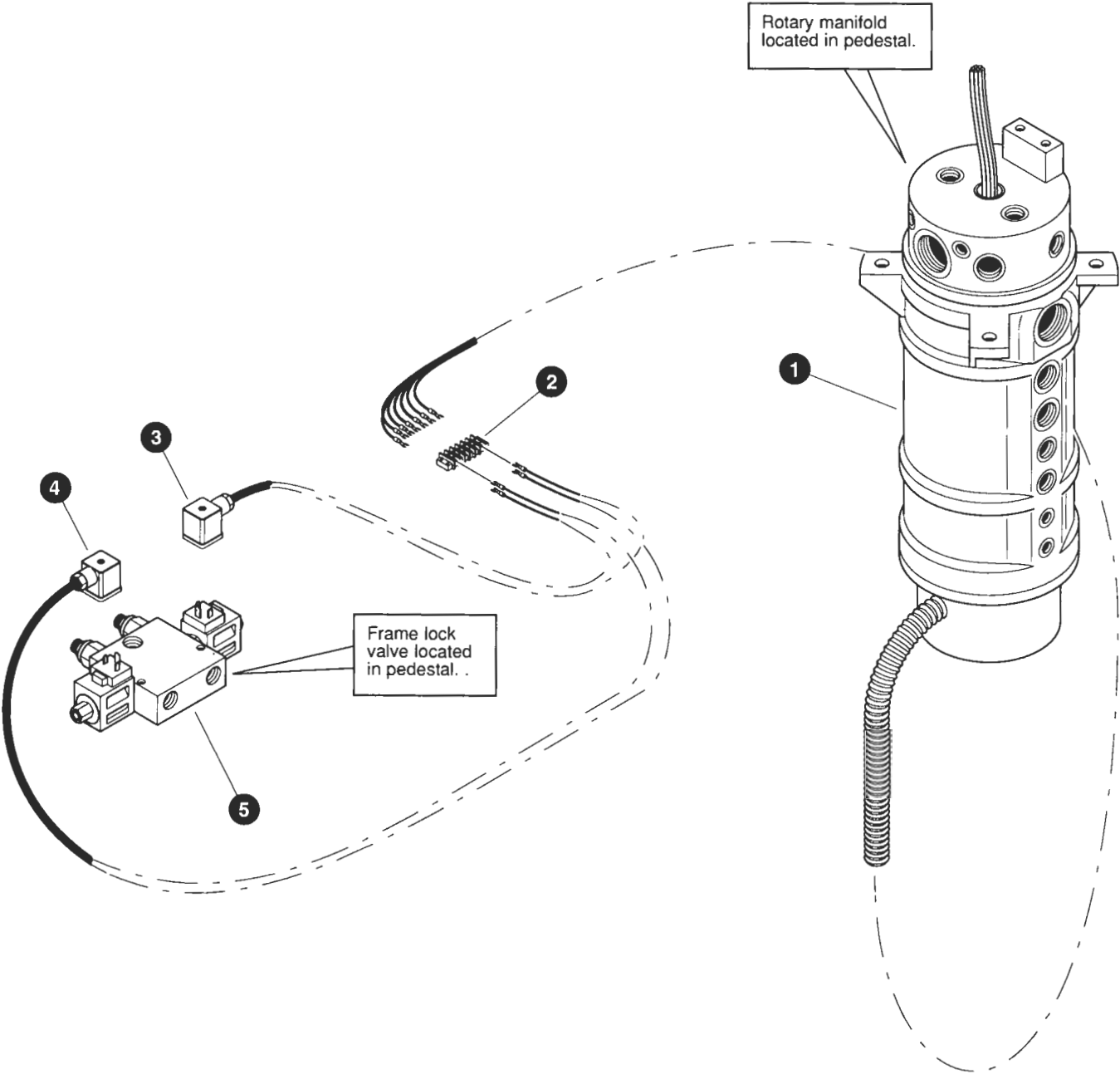
Parts 01380 10/04/99
25.00

ELECTRICAL CONNECTIONS

(Rotary Manifold to Electrical Terminal Box)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	MAIN ELECTRICAL BOX	J.3.8
2	REF	1		ROTARY MANIFOLD	D.2.2

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

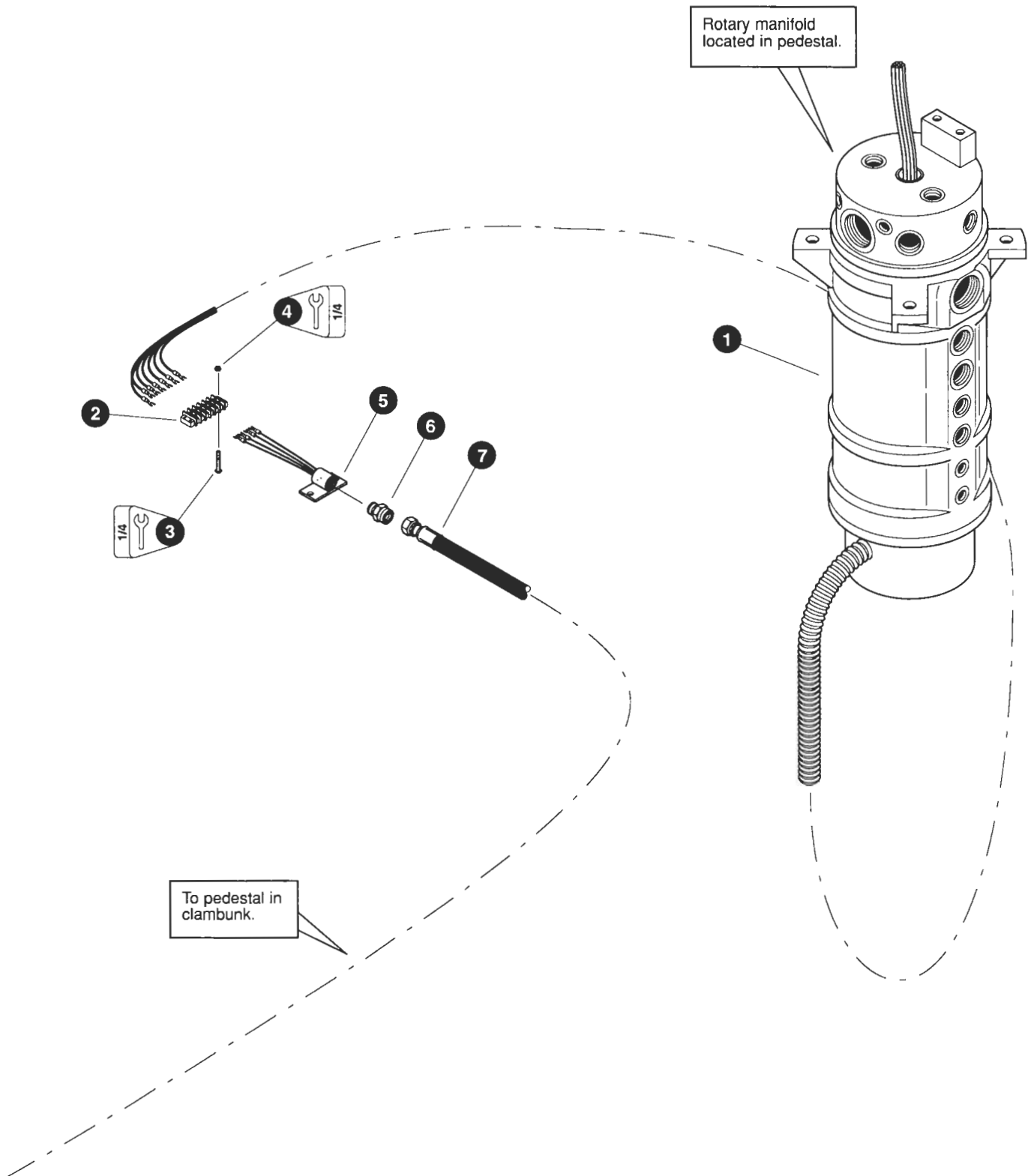


ELECTRICAL CONNECTIONS

(Rotary Manifold to Terminal Strip inside Pedestal to Frame Lock Valve)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF	1		ROTARY MANIFOLD	D.2.2
2	17145	1		CONNECTOR, hirschmann	
3	22325	2		CONNECTOR, electrical - hirschmann	
4	REF.	1	✓	FRAME LOCK VALVE	D.4.4

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



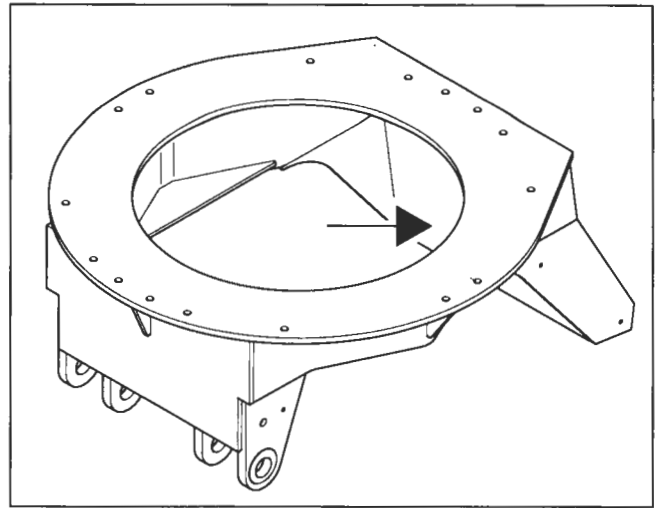
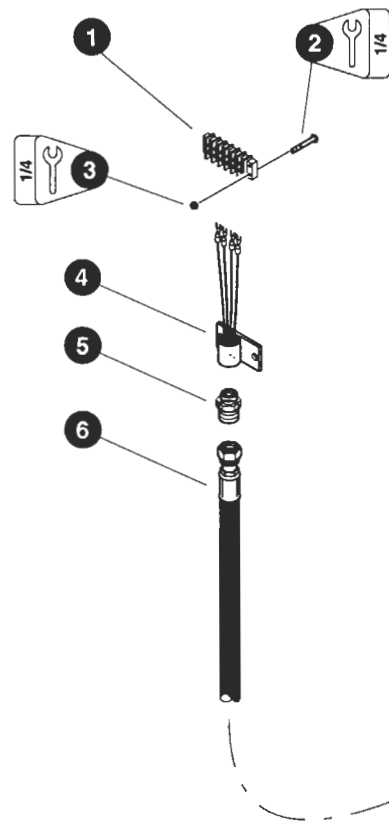
Parts 01382 10/04/99
25.00

ELECTRICAL CONNECTIONS

(Terminal Strip inside Pedestal to Terminal Strip inside 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.

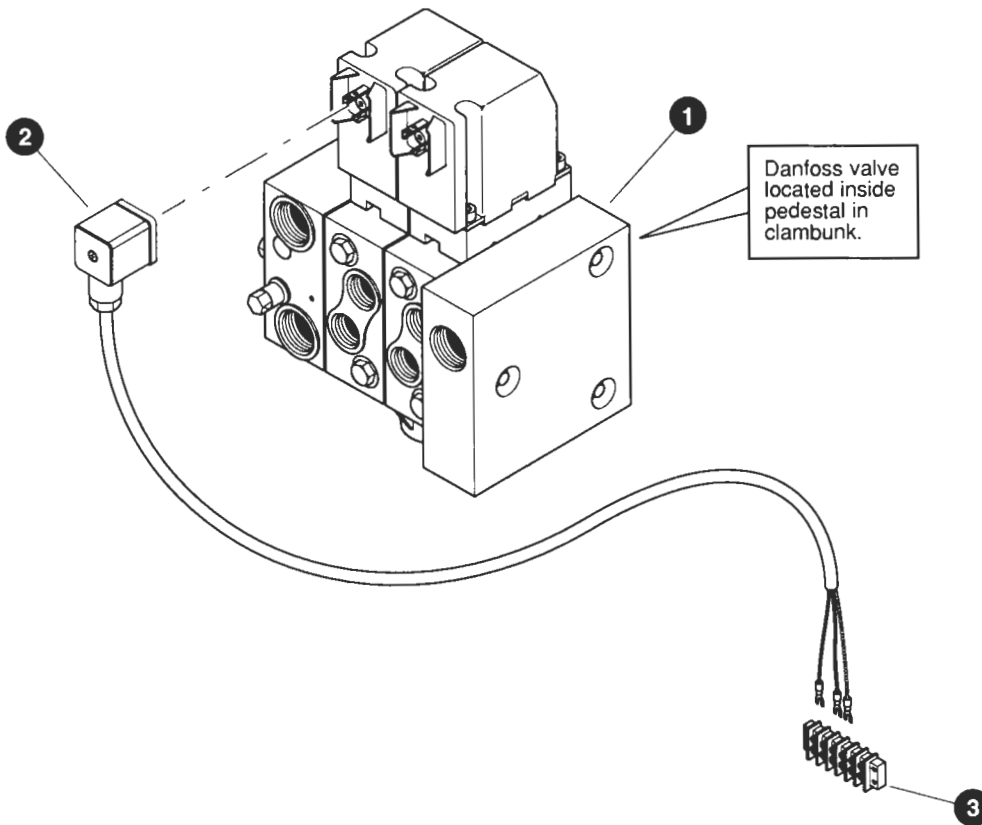
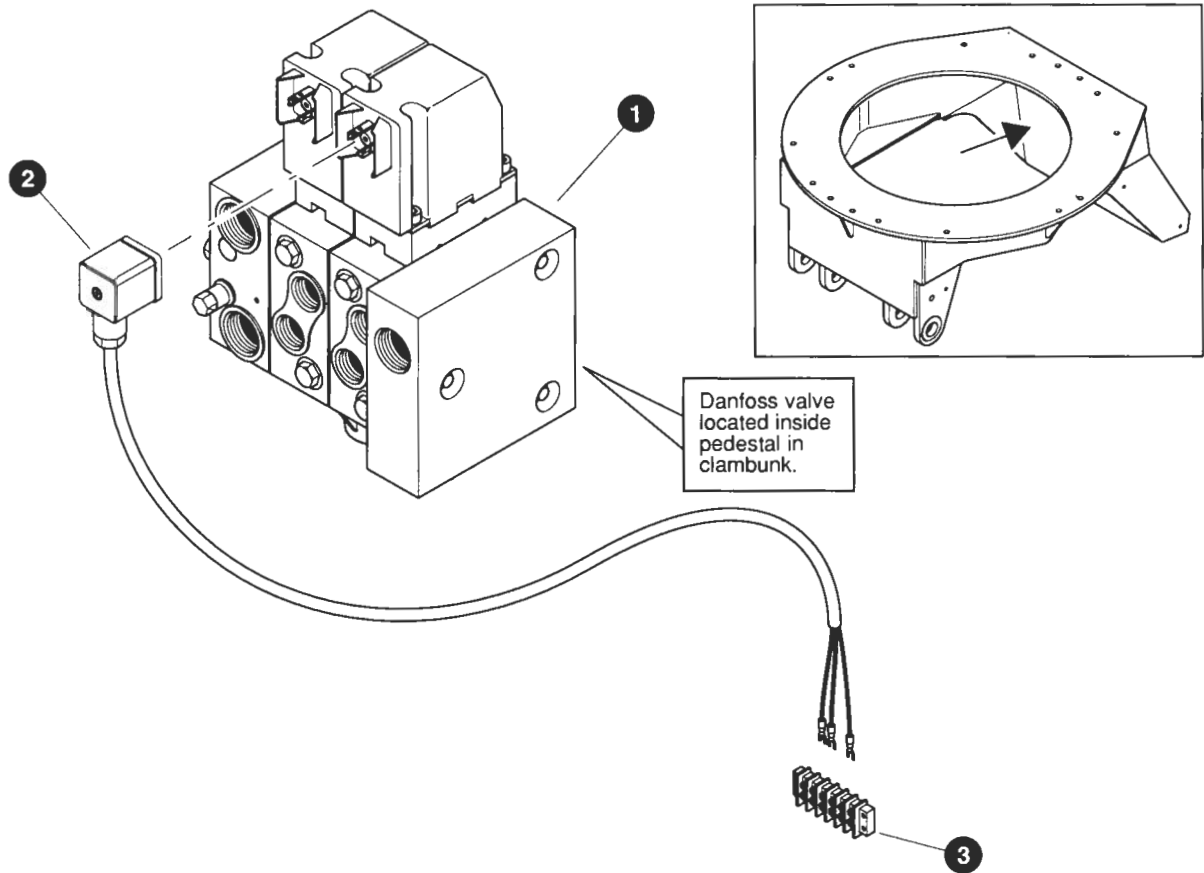


ELECTRICAL CONNECTIONS

(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.



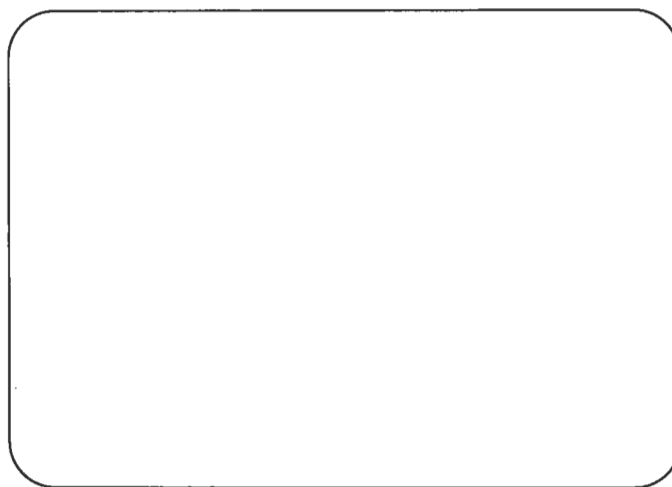
ELECTRICAL CONNECTIONS

(Danfoss Valve to Terminal Strip inside Pedestal in Clambunk)

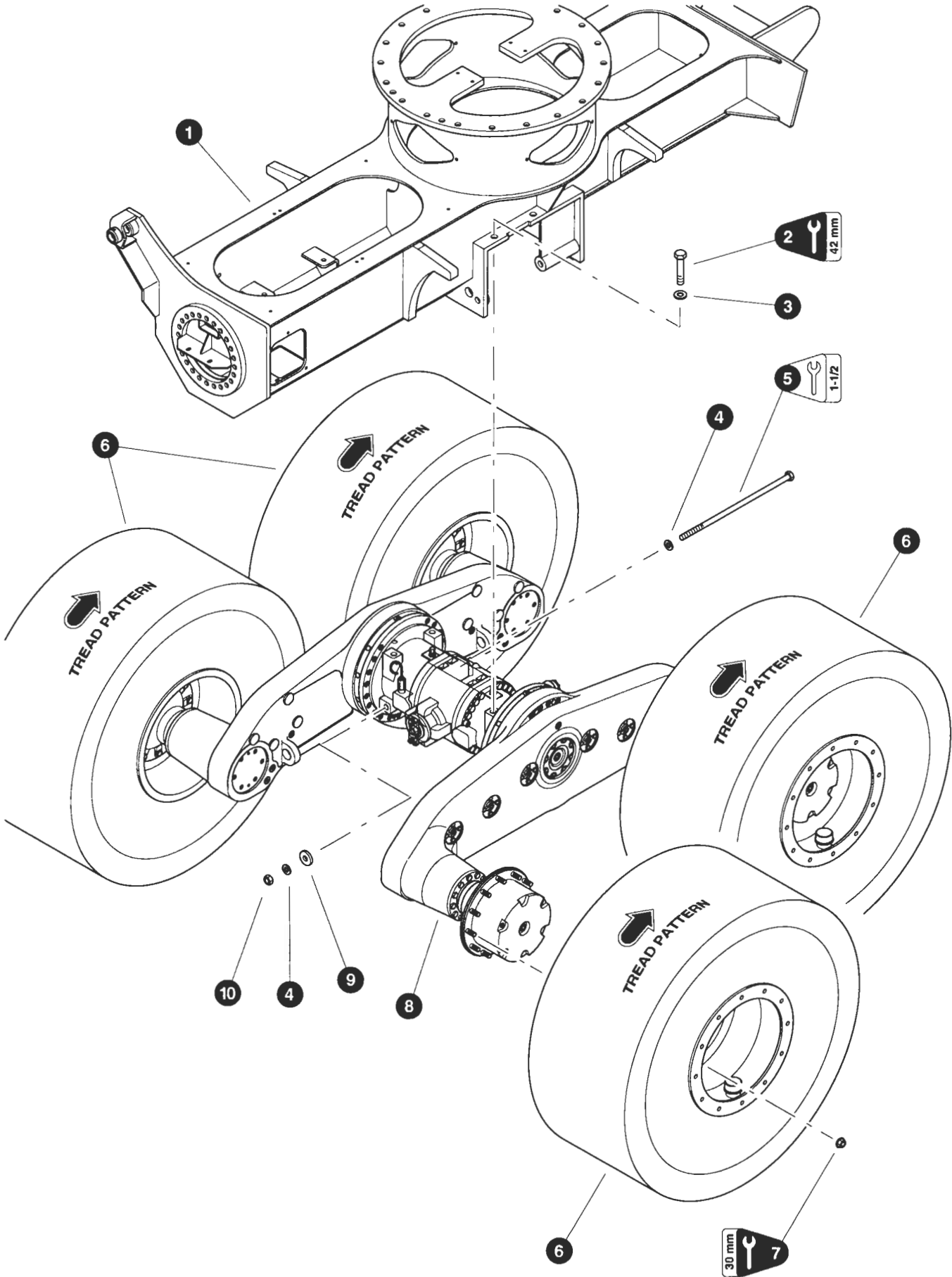
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	DANFOSS VALVE	D.4.2
2	22325	2		CONNECTOR, electrical - hirschmann	
3	REF	1		HIRSCHMANN CONNECTOR	J.5.8

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

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Drivetrain Components - Installation



Parts 00513 03/18/98
6.25

AXLE INSTALLATION (Front Frame)

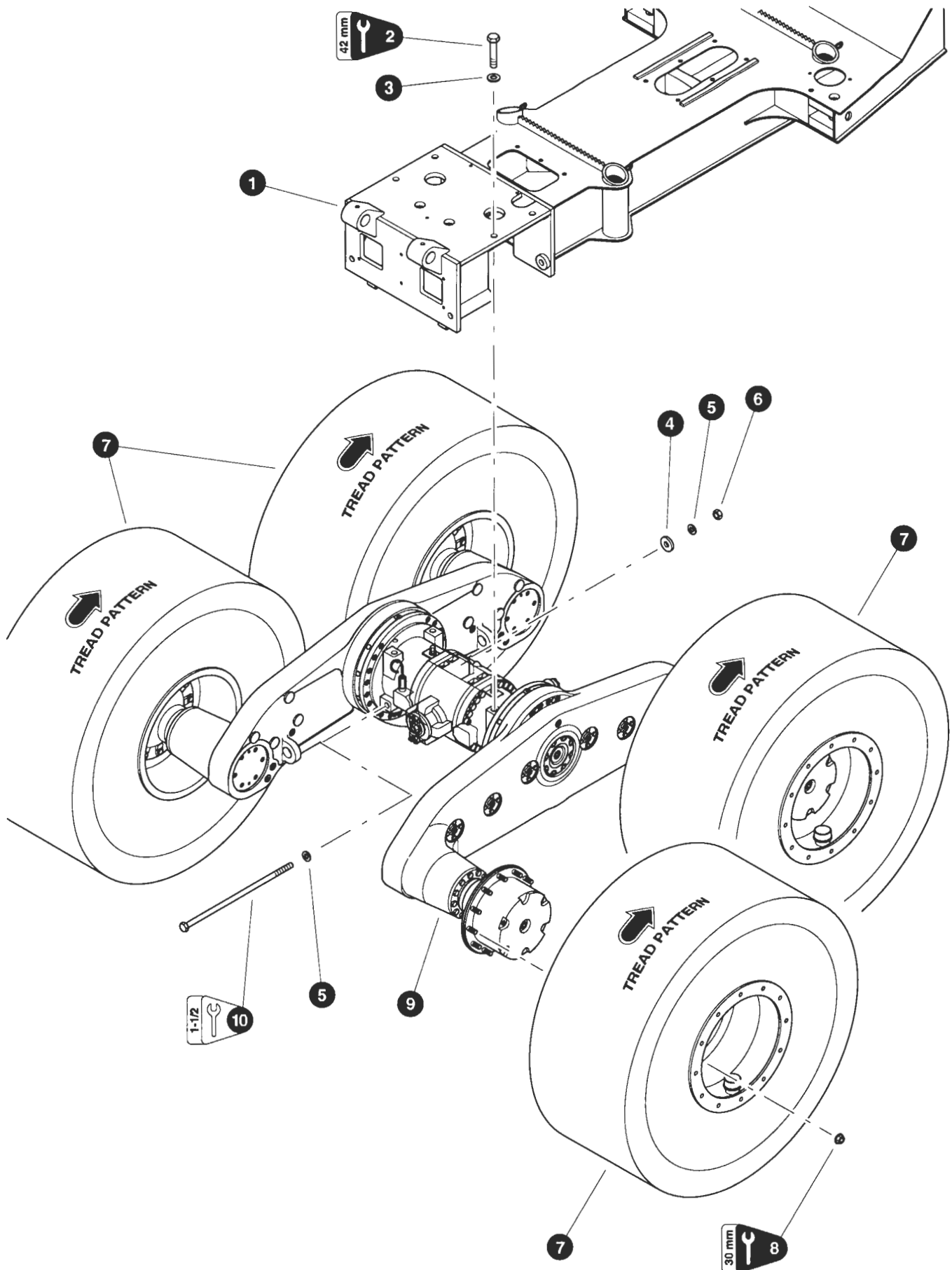
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FRONT FRAME WELDMENT	H.4.2
2	19898	4		BOLT - 27mm-3.0P x 160mm (Torque to 1000 lbs. (1330 Nm))	
3	19899	4		WASHER, hardened flat - 27mm	
4	15579	4		WASHER, SAE flat - 1"	
5	19897	2		BOLT - 1" x 29"	
6	REF.	4		WHEEL ASSEMBLY	K.1.12
7	19361	48		NUT, lug (Torque 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)

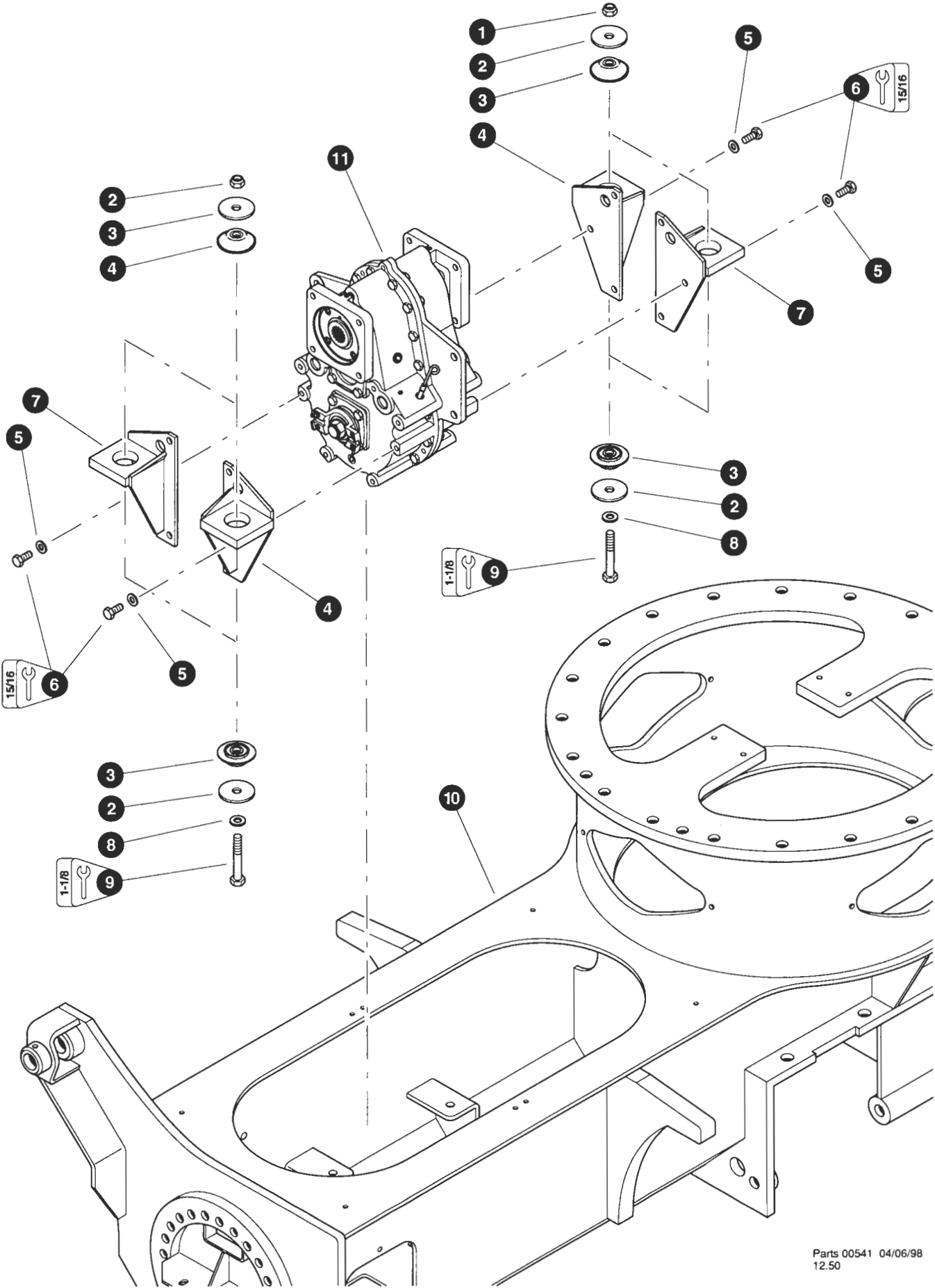
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	REAR FRAME WELDMENT	H.5.2
2	19898	4		BOLT - 27mm-3.0P x 160mm (Torque to 1000 lbs. (1330 Nm))	
3	19899	4		WASHER, hardened flat - 27mm	
4	10734	2		WASHER, burned	
5	15579	4		WASHER, SAE flat - 1"	
6	18253	2		NUT, lock - 1"	
7	REF.	4		WHEEL ASSEMBLY	K.1.12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

① 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 00541 04/06/98
12.50

TRANSFER CASE INSTALLATION (Funk)

(Used on machines PDN# 052FWD and below)

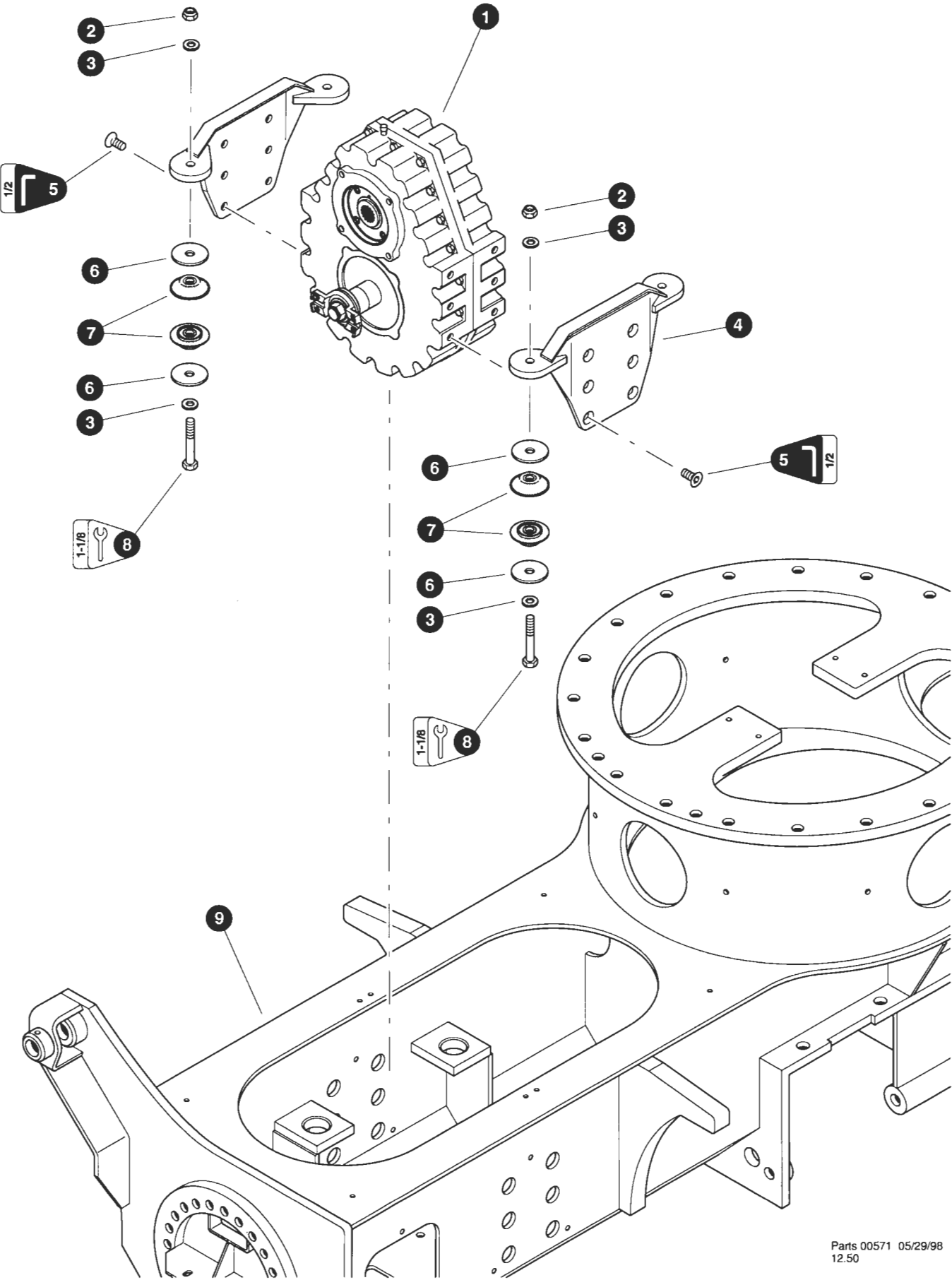
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	10817	4		NUT, lock - 3/4"	
2	17918	8		WASHER, isolator mount	
3	17904	8		ISOLATOR	
4	20063	2		BRACKET, gearbox mounting - RH	
5	10771	12		WASHER, SAE flat - 5/8"	
6	20661	12		BOLT - 5/8" x 1-1/2" (See note below)	
7	20064	2		BRACKET, gearbox mounting - LH	
8	15550	4		WASHER, SAE flat - 3/4"	
9	10844	4		BOLT - 3/4" x 5"	
10	REF.	1	✓	FRONT FRAME WELDMENT	H.4.2
11	REF.	1	Ⓢ	TRANSFER CASE	

Ⓢ Contact your TIMBCO dealer for additional information.

✓ See referenced page for component or assembly breakdown.

Note:

Use Loctite 242 (blue) during installation.



Parts 00571 05/29/98
12.50

TRANSFER CASE INSTALLATION (Superior)

(Used on machines PDN# 053FWD and above)

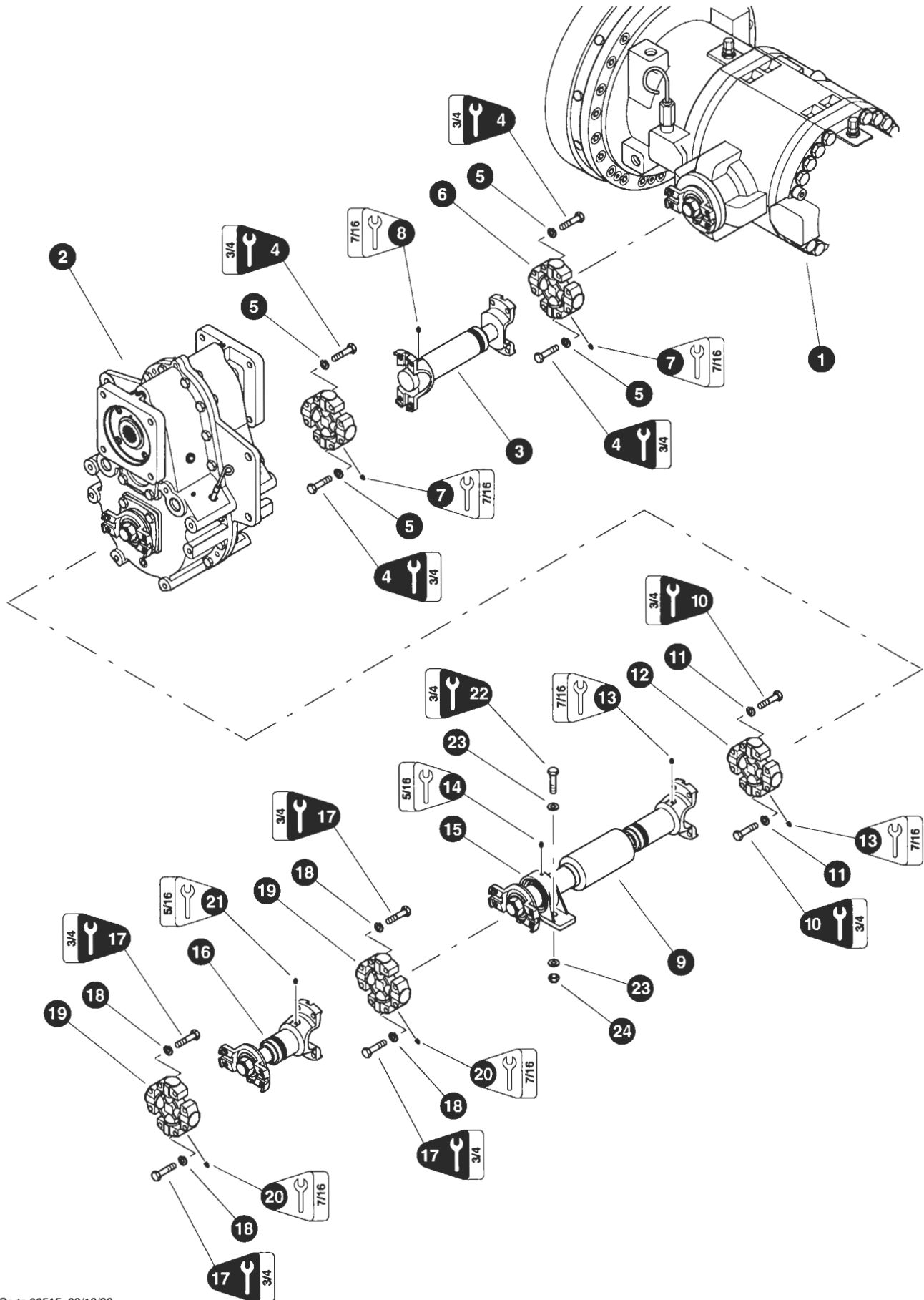
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	Ⓢ	TRANSFER CASE	
2	10817	4		NUT, lock - 3/4"	
3	15550	8		WASHER, SAE flat - 3/4"	
4	80395	2		BRACKET, gearbox mounting	
5	20968	12		BOLT, flat head socket - 3/4" x 1-1/4"	
				(Torque to 300 ft.lbs. (400 Nm)) (See note below)	
6	17918	8		WASHER, isolator 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 00515 03/18/98
12.50

DRIVE SHAFT INSTALLATION

(Front Frame & Articulation Joint - Funk Transfer Case)

(Used on machines PDN# 052FWD 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)	
--	19895	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	19895-2	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"	

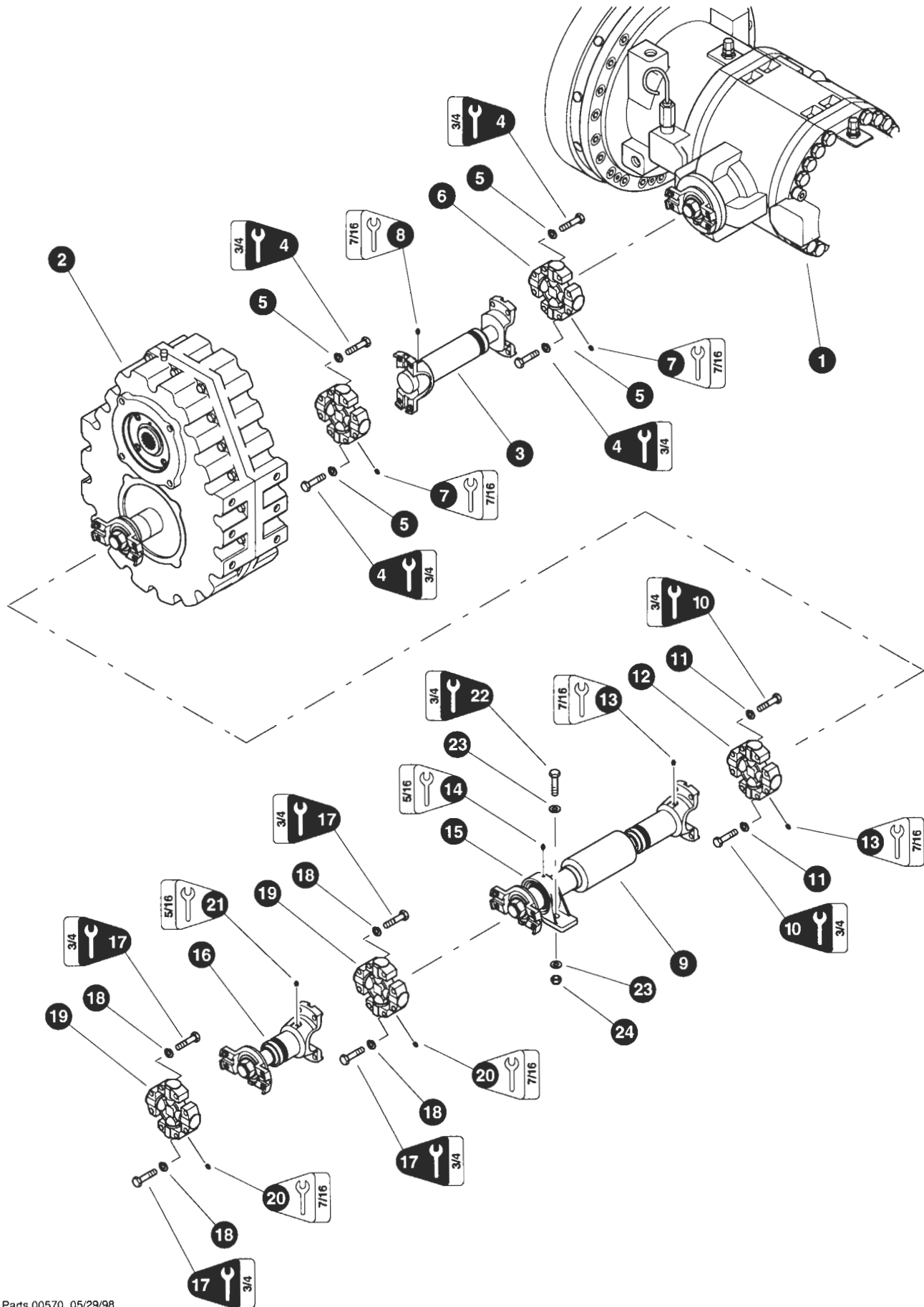
- Ⓢ Contact your TIMBCO dealer for additional information.
- ✓ See referenced page for component or assembly breakdown.
- ☐ Kit or Assembly - includes all items indented underneath.

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# 053FWD and above)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	FRONT AXLE ASSEMBLY	Blue D
2	REF.	1	①	TRANSFER CASE (See note #1 below)	
--	20966	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"	

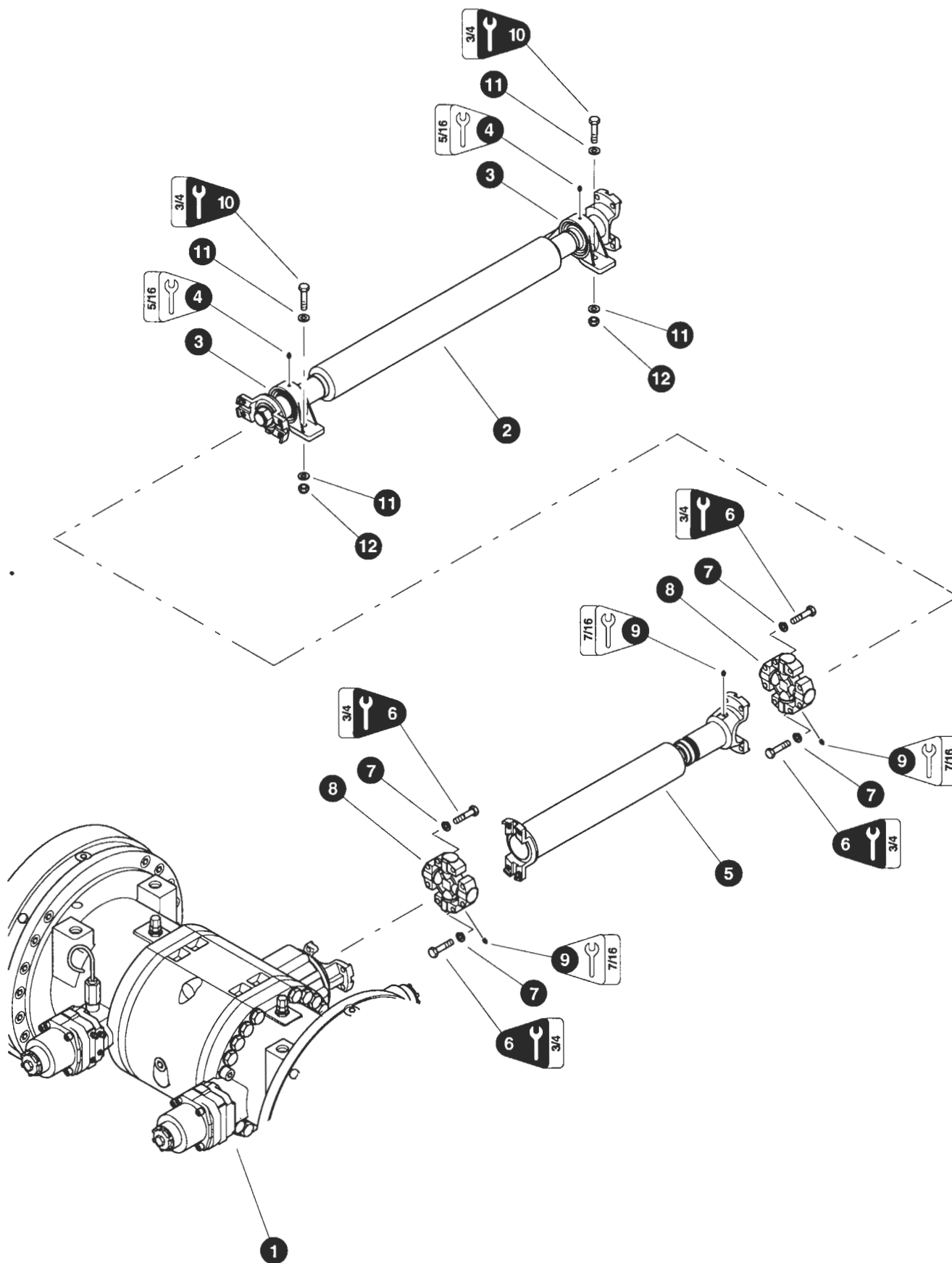
- ① Contact your TIMBCO dealer for additional information.
- ✓ See referenced page for component or assembly breakdown.
- ☐ Kit or Assembly - includes all items indented underneath.

Note #1:

Use Loctite 242 (blue) during installation.

Note #2:

Use Loctite 271 (red) during installation.



Parts 00516 03/18/98
12.50

DRIVE SHAFT INSTALLATION (Rear Frame)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1	✓	REAR AXLE ASSEMBLY	Blue E
--	19895	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	19895-5	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"	

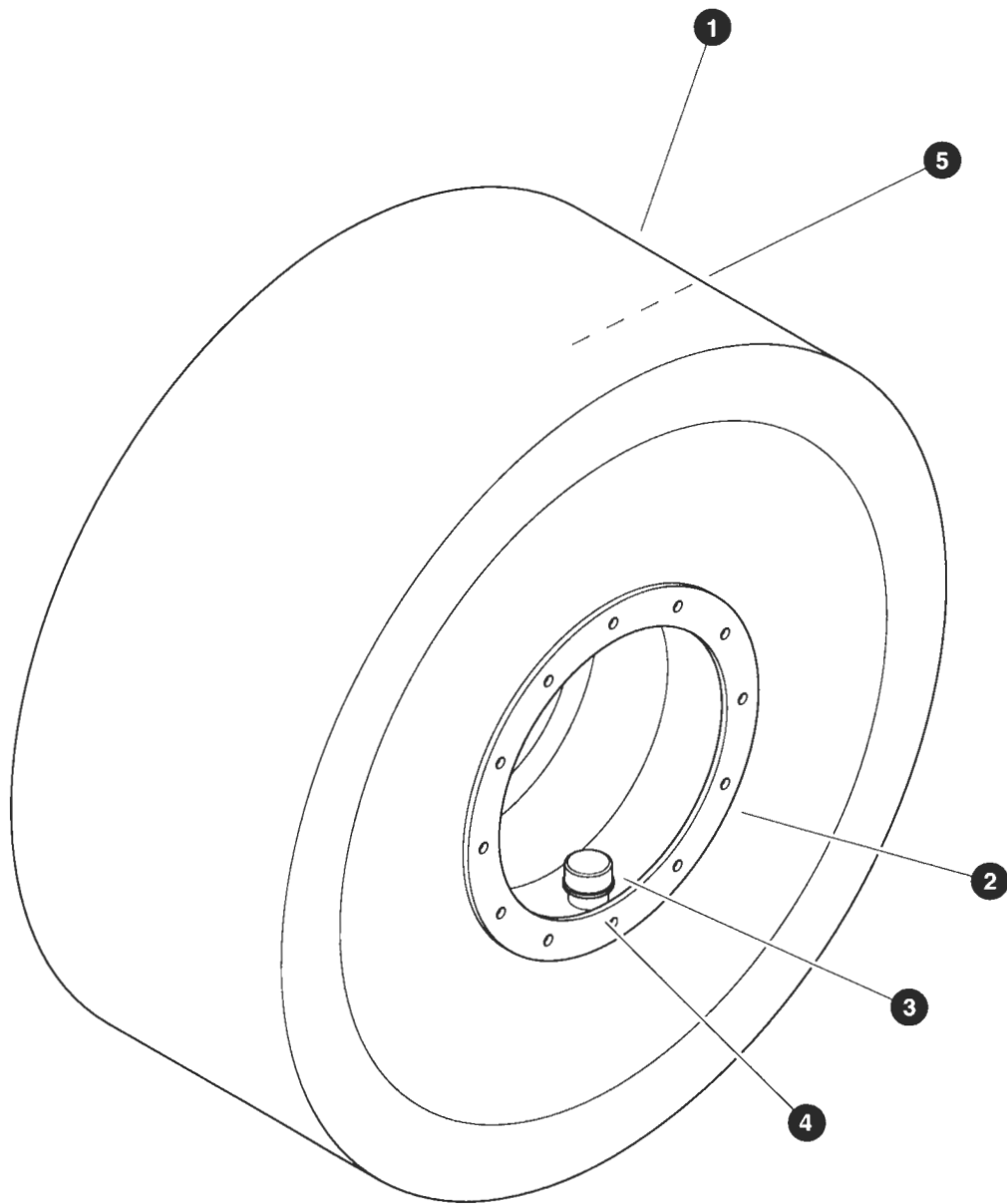
- ✓ See referenced page for component or assembly breakdown.
 ☐ Kit or Assembly - includes all items indented underneath.

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

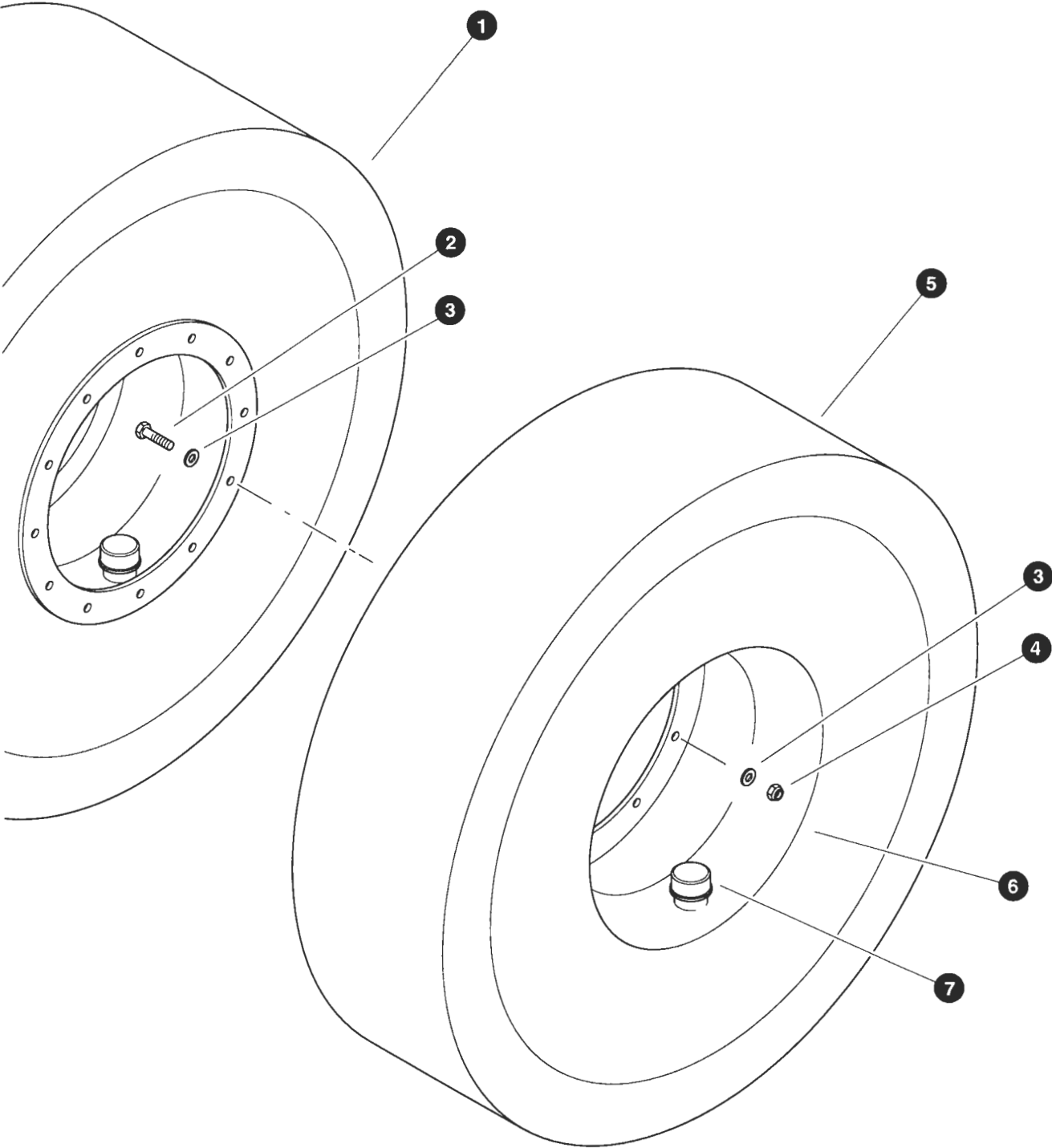
(Single Configurations - 8 Wheels Total)

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	20004	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

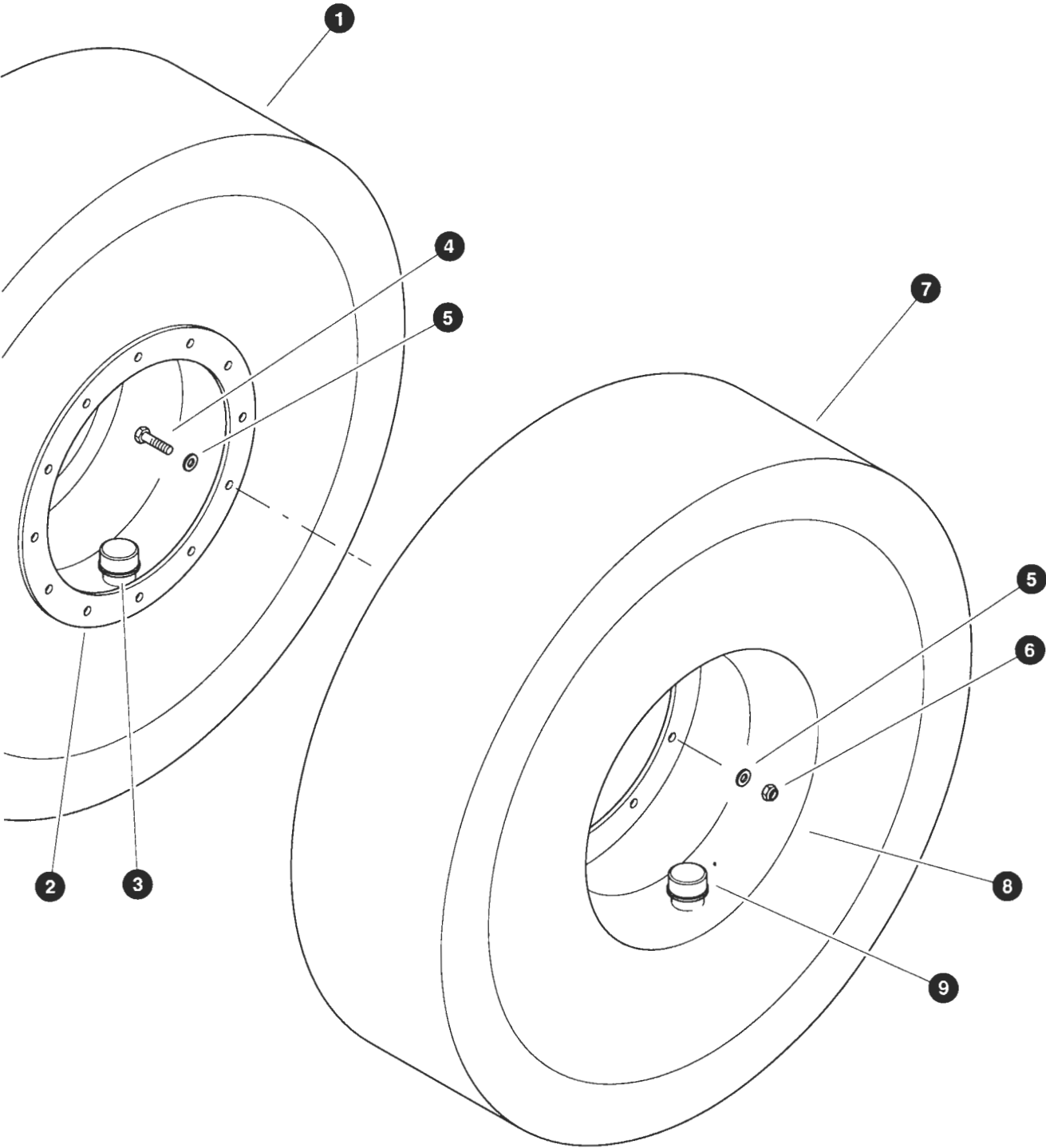
(Dual Configuration - 28L-26 & 23.1-26 - 16 Wheels Total)

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.

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Master TF820-C 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
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 * B.4.12 * B.4.14 * E.1.2 * F.3.4 * G.1.6 * G.3.10 * G.3.12
10549	BOLT - 3/4" X 2"	H.7.6
10700	NUT, hex - 3/8"	G.4.6
10701	WASHER, lock - 3/8"	B.2.8 * F.2.2 * F.2.4 * 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.2.6 * E.2.8 * E.2.10 * E.2.10A 8 H.1.6 * H.2.8 H.3.8 * H.3.8A * H.3.8A * H.3.10 * H.3.10A * H.4.8 * H.7.2 H.7.4 * H.7.4A * 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
10710	WASHER, lock - 1/2"	B.3.12 * K.1.8 * K.1.10
10713	BOLT - 3/8" X 3-1/2	F.2.4 * F.2.8
10718	WASHER, SAE flat - 7/8"	H.4.10
10719	BOLT - 5/8" X 4"	H.5.6
10723	BOLT - 5/8" X 4-1/2"	F.3.2
10728	NUT, nylock - 2"	H.3.4A * H.4.10 * H.7.4 * H.7.4A
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 * G.2.4 * H.1.6 H.4.2 * H.4.4
10734	WASHER, burned	K.1.2 * K.1.4
10736	BOLT - 1/2" X 2"	E.1.6 * F.2.6 * H.1.2 * H.1.10 * H.1.12 * H.3.12 * H.3.12A * H.6.4 H.6.4A * H.6.4B * 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 * B.1.2A
10756	WASHER, lock - 1/4"	B.3.4 * B.3.24 * G.4.10 * J.3.26
10757	WASHER, SAE flat - 1/4"	B.1.4 * B.3.56 * B.4.10 * F.1.6 * F.3.16 * G.2.2 * G.2.4 * G.2.8 G.3.12 * G.4.4 * G.4.8 * 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.3.2 * H.2.2 * H.2.2A * H.3.2 * H.3.2A * H.7.2 * K.1.6
10773	BOLT - 5/8" X 3-1/2"	H.7.2
10775	BOLT - 3/4" X 2-1/2"	H.7.4 * H.7.4A

<u>Part #</u>	<u>Description</u>	<u>Location</u>
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 * H.5.4
10788	NUT, nylock - 5/16"	B.3.54 * F.3.18 * F.3.24 * G.3.10 * H.1.16
10800	WASHER, flat - 1/4"	E.1.16 * F.2.8 * G.3.10 * G.3.14
10802	WASHER, flat - 3/8"	B.1.10 * F.3.20 * F.3.22
10804	WASHER, flat - 1/2"	F.1.2 * H.1.10 * H.1.20
10811	NUT, lock - 1/4"	B.3.4 * B.3.56 * G.1.6 * J.1.2 * J.1.4 * J.3.12 * J.3.20
10812	NUT, nylock - 5/16"	B.1.10 * E.1.20
10813	NUT, lock - 3/8"	B.1.6 * B.1.10 * B.2.20 * B.2.22 * B.3.4 * B.4.12 * B.4.14 F.3.4 * F.3.20 * F.3.22 * H.1.6 * H.1.8 * H.4.2
10815	NUT, lock - 1/2"	B.2.6 * E.1.6 * F.1.2 * F.2.6 * H.1.2 * H.1.14 * H.1.18 * H.1.20 H.3.12 * H.3.12A * H.4.6 * H.5.4 * H.6.4 * H.6.4A * H.6.4B K.1.8 * K.1.10
10816	NUT, lock - 5/8"	F.3.2 * H.7.2
10817	NUT, lock - 3/4"	F.2.6 * F.3.2 * H.6.4B * H.7.4 * H.7.4A * 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
10830	BOLT - 3/8" X 6"	F.3.4
10835	BOLT - 1/2" X 4-1/2"	H.4.6 * H.5.4
10838	BOLT - 5/8" X 5"	H.2.6 * H.2.6A * H.3.6 * H.3.6A
10840	BOLT - 3/4" X 3"	K.1.14 * K.1.16
10841	BOLT - 3/4" X 3-1/2"	H.1.4
10844	BOLT - 3/4" X 5"	F.3.2 * K.1.6
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
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
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 * H.2.2
11706	BUSHING - 3" X 4-1/4"	E.2.2 * H.2.2 * H.2.2A
11707	BOLT - 3/8" X 1"	E.1.18 * F.2.2 * F.3.4 * F.3.20 * G.3.10 * G.3.12 * G.4.4 * H.7.8

<u>Part #</u>	<u>Description</u>	<u>Location</u>
11711	PIN, chromed - 2-1/2" x 20"	H.2.4
12013	KNOB, star	G.2.4 * G.2.8
12066	BLOCK, bottom	H.2.6 * H.2.6A
12067	BLOCK, top	H.2.6 * H.2.6A
12115	CAP, tapered hub	H.2.4 * H.2.4A
12116	LOCK, center tapered hub bolt	H.2.4 * H.2.4A
12118	HUB, tapered - 1-1/4" plate	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.5.2 * H.7.4 * H.7.4A
12150	COVER, access - radiator fill / steer cylinder	H.1.20 * H.5.4
12210	SPACER, base - 2-1/2" x 7-1/2"	H.2.2
12218	BRACKET, throttle cable mount - cab	F.3.16
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 * H.2.6A
12352	HUB, tapered - 1-1/4" plate	H.2.4A
12365	SPACER, base - 3" x 7-1/2"	H.2.2A
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
13176	BRACKET, accumulator mounting	B.4.12 * B.4.14
13330	WELDMENT, clam arm base	H.7.4 * H.7.4A
13340	WELDMENT, clam bunk arm - 4" dia. cylinder	H.7.4
13350	WELDMENT, clam mounting base	H.7.2
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

<u>Part #</u>	<u>Description</u>	<u>Location</u>
13385	COVER, hinge	H.7.8
13390	SHAFT, hinge cover	H.7.8
13403	WELDMENT, clam bunk arm - 5" dia. cylinder	H.7.4A
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
14143	PLATE, pin retention	H.3.4
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 * B.3.16
15115	CONNECTOR, straight - FF1852T-0810S	B.1.6 * B.2.28 * B.2.28A * B.2.36 * B.2.36A * B.2.46 * B.3.4 B.4.12 * B.4.12A * B.4.14 * B.4.14A
15117	CONNECTOR, straight - FF1852T-0808S	B.1.10 * B.3.18 * B.3.20 * B.3.22 * B.3.52 * B.3.54 * B.4.12 B.4.14 * H.2.2 * H.3.2
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.2.12A * B.2.14 * B.2.14A * B.2.16 * B.3.26 B.3.34 * B.3.36 * B.3.36A * B.3.38 * B.3.42 * B.3.44 * B.3.46 B.3.48 * B.4.10
15131	CONNECTOR, straight - FF2031T-0404S	B.2.12 * B.2.12A * B.2.52 * B.3.24
15133	ELBOW, 90 - FF1868T-0406S	B.1.2 * B.1.2A * B.1.4 * B.2.12 * B.2.14 * B.2.16 * B.3.32 B.3.36 * B.3.42 * B.3.44 * B.3.46 * B.3.56 * B.4.10
15139	TEE - FF1898T-0404S	B.3.38 * B.3.38A
15145	ELBOW, 90 swivel - FF2098T-0404S	B.3.28 * B.3.34 * B.3.36A * B.3.38 * B.3.38A * B.3.48 * B.4.10
15152	CONNECTOR, straight - FF1852T-1212S	B.1.2 * B.1.2 A * B.2.10 * B.2.26 * B.2.26A * B.2.44 * B.2.48 B.4.4 * B.4.6 * H.2.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
15154	ELBOW, 90 - FF1868T-0810S	B.3.4 * E.1.20
15176	TEE - FF2114T-0404S	B.1.4 * B.3.28 * B.3.30 * B.3.38 * B.3.38A * B.3.40 * B.3.40A B.3.44 * B.3.48
15179	CONNECTOR, straight - FF2031T-1616S	B.2.18 * B.2.18A * B.2.20 * B.2.22
15187	BUSHING, reducer - 6405-12-16	B.2.10
15189	VALVE, ball - 2-1/2"	B.2.2 * B.2.2A
15190	CLAMP, strap band - 3/8"	B.2.2 * B.2.2A
15191	CLAMP, constant torque - 1-1/2"	B.3.2 * 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.2.18A * B.3.12 * B.3.14
15226	CONNECTOR, straight - FF1852T-1216S	B.1.2 * B.1.2A
15228	ELBOW, 90 - FF1868T-1616S	B.2.18
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.2.32A * B.2.40 * B.2.40A
15272	CLAMP, tubeline - 1/2" x 1/2"	H.2.2 * H.2.2A * H.3.2 * H.3.2A
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
15370	HOSE ASSEMBLY - 2015-04-040S-040S	B.3.56
15372	ELBOW, 90 - FF1868T-0812S	B.3.4 * B.3.18 * B.3.20
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"	B.2.2 * B.2.2A
15391	CONNECTOR, straight swivel - 1404-2-2	E.1.8 * H.1.6
15412	PLUG - 3408-HHP-6	B.1.8 * B.1.12 * C.3.2
15442-2	O-RING	B.3.6

<u>Part #</u>	<u>Description</u>	<u>Location</u>
15433	TEE - FF2114T-0808S	B.2.44 * B.4.12 * B.4.14
15448	O-RING	B.2.2 * B.2.2A
15502	BOLT - 5/8" X 1-1/2"	E.1.6
15504	CONNECTOR, straight - FF1852T-0408S	B.2.54 * B.3.36A * B.3.38A
15505	ELBOW, 90 - FF2032T-0404S	B.1.2 * B.1.2A * B.1.4 * B.3.24
15507	NUT, nylock - 3/8"	B.1.2 * B.1.2A * B.2.6 * G.1.2 * G.2.2 * G.2.4 * G.2.6 * H.4.4 J.1.2 * J.1.4
15508	BOLT - 1/4" X 2-1/2"	B.3.56
15509	NUT, nylock - 1/4"	E.1.16 * F.1.6 * F.2.8 * F.3.16 * G.3.10 * G.3.12 * G.3.14 G.4.10 * J.1.10 * J.1.16 * J.1.22 * J.3.26
15512	BUSHING, black reducer - 1-1/4" X 1"	B.2.18 * B.2.18A
15513	BUSHING, reducer - 5406-12-8	B.2.20 * B.2.22
15515	PLUG - 5406-P-4	F.1.2 * F.2.2
15524	WASHER, isolator mount - 5/8" x 3-1/2"	F.3.2
15525	ISOLATOR, engine mount	F.3.2
15526	BOLT - 5/8" X 2"	H.2.2 * H.2.2A * H.3.2 * H.3.2A
15528	WASHER, SAE flat - 3/8"	B.1.2 * B.12A * B.1.6 * B.2.6 * B.2.20 * B.2.22 * B.3.4 * B.4.4 * B.4.12 * B.4.14 * E.1.2 * E.1.6 * E.1.18 * E.1.22 * F.2.2 * F.2.4 F.2.8 * F.3.4 * F.3.6 * F.3.10 * F.3.20 * F.3.22 * G.1.6 * G.2.2 G.2.4 * G.2.6 * G.3.10 * G.3.12 * G.4.4 * G.4.6 * H.1.6 * H.1.8 H.1.22 * H.4.2 * H.4.4 * H.7.8 * J.1.2 * J.1.4
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
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.2.2 * B.2.2A * B.2.2A * B.2.6 * E.1.2 * E.1.6 * E.1.22 F.1.2 * F.2.6 * G.2.8 * 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.2.4A * H.3.12 * H.3.12A H.4.6 * H.5.4 * H.6.4 * H.6.4A * H.6.4B * K.1.8 * K.1.10
15542	BOLT - 3/8" X 3/4"	B.1.6 * E.1.6 * E.1.22 * F.3.10 * F.3.20 * G.3.12 * H.1.6 * H.1.22 H.4.4
15543	BOLT - 1-1/4" X 5-1/2"	H.2.6 * H.2.6A
15544	WASHER, flat - 1-1/4"	H.2.6 * H.2.6A
15548	WASHER, SAE flat - 7/16"	E.1.2
15549	BOLT - 3/4" X 2"	B.3.6 * H.3.4 * H.3.4A * H.5.6 * H.6.2
15550	WASHER, SAE flat - 3/4"	B.3.6 * F.2.6 * F.3.2 * H.1.4 * H.3.4 * H.3.4A * H.5.6 * H.6.2 H.6.4B * H.7.4 * H.7.4A * H.7.6 * K.1.6 * K.1.14 * K.1.16
15551	BOLT - 12mm-1.75P x 40mm	F.3.2 * J.1.14
15552	BOLT - 1" X 2-1/2"	H.2.4 * H.2.4A * H.3.4 * H.6.6

<u>Part #</u>	<u>Description</u>	<u>Location</u>
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"	B.3.54 * E.1.4 * E.1.20 * F.2.2 * F.2.4 * F.2.8 * F.3.6 * F.3.24 G.3.10 * G.3.12 * H.1.16
15563	NUT, nylock - 5/8"	H.2.2 * H.2.2A * H.2.6 * H.2.6A * H.3.6 * H.3.6A * H.5.6
15565	BOLT - 1/2" X 2-1/2"	F.1.2 * H.1.2 * H.1.10 * H.2.4 * H.2.4A
15566	CONTROL, throttle	F.3.16
15567	CONNECTOR, straight - 5404-4	F.1.10 * F.3.16 * E.1.12
15568	BOLT, - 1/4" X 2"	J.3.12 * J.3.20
15571	CABLE, throttle	F.3.16
15572	PIN, cotter	F.3.16
15573	PIN, pivot throttle cable end	F.3.16
15574	BUSHING, reducer - 5406-4-02	F.3.16 * J.3.10 * J.3.20
15575	BOLT - 1/4" X 1-1/2"	B.4.10 * F.3.16 * G.4.4
15576	BOLT - 1/4" X 1"	B.3.4 * E.1.16 * F.1.6 * F.2.8 * 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.2.8 * F.3.24 * G.3.12 * H.1.16
15591	BOLT - 5/16" X 1-1/2"	F.3.18
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.2.8 * G.3.10 * G.3.12 * G.4.4 * G.4.8 * G.4.10 H.1.20 * J.1.10 * J.1.16 * J.1.22 * J.3.10
15606	WASHER, lock - 5/16"	F.2.2 * F.2.4 * F.2.8 * G.5.10
15619	SPACER, radiator - 3/8"	F.2.6
15621	BRACKET, A/C drier	G.4.4
15629	CLAMP, hose - worm style - 1-1/2"	F.3.24 * 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
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

<u>Part #</u>	<u>Description</u>	<u>Location</u>
15669	SCREW, machine - #10-24 x 1/2"	G.1.6 * J.4.8
15677	HOSE, heater - 1"	F.3.24
15681	BOLT - 5/8" X 2-1/4"	E.2.4 * E.2.6 * E.2.10A
15685	FITTING, straight long grease - 1/8" pipe thread	H.1.6
15694	WEATHERSTRIP	G.2.8
15695	WEATHERSTRIP	G.2.4
15697	CLAMP, strap band - 4-1/2"	F.3.20
15801	FAN, engine - blower	F.3.6
15805	STARTER - 12V	F.3.8
15825	AIR CLEANER ASSEMBLY	F.3.18
15831	ELBOW, 90 rubber	F.3.20
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
15914	NUT, cylinder rod - 1-3/4"	E.2.10A
16006	HOSE ASSEMBLY - 2148-04-04PS-02PS	E.1.8
16018	BUSHING, reducer - 6405-6-4	B.3.56
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.3.20 * 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
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

<u>Part #</u>	<u>Description</u>	<u>Location</u>
16080	BREAKER, 50 amp	J.1.10
16086	KIT, seal repair - relief valve cartridge	D.1.2
16097	BREAKER, 40 amp	J.1.10
16099	BELT, A/C compressor drive	F.3.6
16106	O-RING	B.2.2 * B.2.2A * C.3.8
16109	HOSE, suction - 1"	B.3.2
16114	INDICATOR, air cleaner filter service	F.3.18
16116	BOLT, allen head - 10mm x 30mm	B.3.2
16119	CLAMP, hose - coated strap - 1"	E.1.16 * F.2.8
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
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.2.8 * F.3.14 * F.3.26
16207	SLEEVE, protective hose - 1-3/4"	B.3.30 * B.3.40 * B.3.40A * 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.2.4 * G.2.6
16238	HOSE, rubber - 5/16"	E.1.14 * E.1.16 * F.1.6 * F.2.8 * F.3.14 * F.3.26
16249	CLAMP, strap band - 5-1/2"	F.3.20
16251	ELBOW, 90 street - 5502-4	F.1.6
16256	CLAMP, hose - worm style - 1"	E.1.22
16258	DRIVE PLATE	F.3.10
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
16290	STRAP, tie	E.1.22 * G.4.6 * G.4.8
16295	CONNECTOR, straight - FF2031T-0604S	F.3.14 * J.5.10 * J.5.12
16296	ELBOW, 90 - FF1868T-0606S	B.2.12 * B.2.12A * B.2.14 * B.2.14A * B.4.10
16297	ELBOW, 90 swivel - FF2098T-0808S	B.1.12 * B.2.28 * B.2.28A * B.2.36 * B.2.36A * B.3.4 * B.3.52 B.3.54

<u>Part #</u>	<u>Description</u>	<u>Location</u>
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.3.22 * B.3.54 * B.4.12 * B.4.12A B.4.14 * B.4.14A
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
16389	ALTERNATOR - 12V / 130AMP	F.3.8
16403	BRACKET, hinge	H.1.12 * H.1.14
16415	DECAL, hydraulic tank support	H.1.28
16422	ELBOW, 90 - FF1868T-1210S	B.2.4
16423	WINDOW, sliding w/frame	G.2.8
16433	HOSE, flex radiator - 2" x 2-1/4" x 25"	F.3.26
16495	BOOT, rubber	F.3.20
16505	SWITCH, door	J.3.14
16517	SPACER, compressor mounting	F.3.4
16534	HOSE ASSEMBLY - 2020-04-040S-040S	B.3.56
16538	STUD, 2-way	G.2.8
16539	STAND-OFF	G.2.8
16541	CONNECTOR, straight - FF1852T-0404S	B.3.28
16544	NON-SKID - 6"	H.1.20
16548	SPACER, engine fan	F.3.6
16552	COVER, system pump suction	E.1.2
16572	RUBBER, muffler mounting	F.3.22
16585	CAP, non-locking fill	F.1.2
16607	DECAL, pressurized hydraulic tank	H.1.28
16608	BOOT, air cleaner dust	F.3.20
16633	SHIM - 7 gauge	H.2.4A * H.3.4A
16637	SHIM - 10 gauge	H.2.4A * H.3.4A
16638	SHIM - 14 gauge	H.3.4A
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

<u>Part #</u>	<u>Description</u>	<u>Location</u>
16706	VALVE, ball shut-off - 1"	B.3.2 * B.3.6
16717	HOSE, heater - 5/8"	E.1.22 * F.2.6 * G.4.16 * G.4.18
16718	VALVE, check - 150 psi	B.2.18 * B.2.18A
16719	BUSHING, reducer - 6410-16-8	B.1.10 * B.4.12 * B.4.14
16727	PLUG - 6408-24	E.1.2
16728	ELEMENT, return filter - 7-micron	E.1.4
16730	FILTER, return	E.1.4
16734	RETAINER, muffler rubber	F.3.22
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
16791	ELBOW, 90 - 5500-4-2	E.1.8
16796	COVER, A/C compressor dust	F.3.6
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
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-1210S	B.2.24 * B.2.24A * B.2.34 * B.2.42
16852	KIT, seal repair - return filter	E.1.4
16858	GUARD, rear window	G.2.8

<u>Part #</u>	<u>Description</u>	<u>Location</u>
16879	DECAL, sight gauge	H.1.28
16910	TAP, gauge port - 1/8" pipe thread	B.2.12 * B.2.12A * B.2.14 * B.2.14A
16911	CONNECTOR, straight - 7455-2-10mm	B.2.12 * B.2.12A * B.2.14 * B.2.14A
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.2.8
16935	WASHER, SAE flat - 1-1/8"	G.1.4
16936	KEY, ignition	J.3.2
16937	KEY, door	G.1.6
16939	KEY, door	G.1.6
16940	KEY, door	G.1.6
16951	BRACKET, water hose support	F.3.24
16956	ELBOW, 90 black street - 2-1/2"	B.2.2 * B.2.2A
16957	NIPPLE, king - 2-1/2"	B.2.2 * B.2.2A
16966	ANTENNA, radio	J.3.28
16977	CONNECTOR, straight - coolant orifice	F.3.26
16983	ELEMENT, return filter - 15-micron	E.1.4
16989	CONNECTOR, straight hose barb - 4245-5-2	F.3.26
16990	CONNECTOR, straight hose barb - 4244-5-4	F.3.26
17015	BUSHING, reducer - 6410-20-16	B.3.8 * B.3.14
17016	CONNECTOR, flange pad - 1-1/4"	B.3.14
17057	CONNECTOR, straight - FF2031T-2020S	B.2.20 * B.2.22
17065	WASHER, rubber	G.1.4
17082	COMPENSATOR	C.2.2
17098	TUBE, suction	B.2.2 * B.2.2A
17114	STRAINER, fuel system	F.1.2
17115	RING, snap - fuel strainer retainer	F.1.2
17145	CONNECTOR, hirschmann	J.2.8 * J.2.8A * J.5.8
17156	STEM, pressure relief cap	E.1.14 * E.1.16
17159	ELBOW, 45 - 5501-16	B.3.2
17160	DECAL, hydraulic oil selection guide	H.1.26
17189	O-RING	C.2.2
17198	LEXON, door window	G.2.2
17206	BRACKET, terminal bracket support	J.1.14

<u>Part #</u>	<u>Description</u>	<u>Location</u>
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 * G.4.10
17256	SCREW, self-tapping 0 #10-24 x 1/2"	J.3.12
17257	CLAMP, hose - coated strap - 1-1/2"	F.3.24 * J.1.6 * J.1.8
17271	FILTER, screen - fuel system	F.1.4
17274	FRAME, door window	G.2.2
17309	BOLT, compensator mounting	C.2.2
17319	RING, retaining	C.2.2
17307M	QUICK-DISCONNECT - 1/2"	B.2.20 * B.2.22 * E.1.22
17323M	COVER, dust - quick-disconnect	B.2.20 * B.2.22 * E.1.22
17344	CONNECTOR, straight - FF1852T-2020S	B.2.20 * B.2.22
17358	FLOORMAT, door tray	G.3.2 * G.3.2A
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.2.8 * J.3.14
17457	ADAPTER, 45 flange - 3/4"	B.2.46
17483	HOSE ASSEMBLY - 4019-08-080S-0809	B.4.12 * B.4.12A * B.4.14 * B.4.14A
17487	ELBOW, 90 - 5500-8	B.2.20 * B.2.22
17492	DIPSTICK - fuel level	E.2.10A * F.1.2
17499	PINION, swing motor	H.1.4 * J.3.14
17506	INSULATION, soundproof - cab-side engine pivot	H.1.10
17537	CLAMP, hose - worm style - 1-1/8"	E.1.22
17541	O-RING	E.1.14
17547	MANIFOLD, return oil	B.1.12 * B.2.4 * B.2.20 * B.2.22 * B.3.8

<u>Part #</u>	<u>Description</u>	<u>Location</u>
17572	SLEEVE, protective hose	B.3.2 * E.1.22 * F.3.14 * 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
17607	GUARD, swing-out pump	H.1.14
17609	BUSHING, reducer - 6405-20-16	B.3.6
17612	CUP, grease	H.1.6
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.1.2A * B.2.44
17674	VALVE, pilot pressure relief	D.1.2
17682	ELBOW, 90 swivel - FF2098T-1616S	B.2.20 * B.2.22 * B.3.12
17687	TEE - FF2114T-1212S	B.2.10 * B.3.22
17688	ELBOW, 90 - FF1868T-1212S	B.2.34 * E.1.20
17692	FILTER, return	E.1.4
17707	CONNECTOR, straight - FF2031T-1216S	B.2.10
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
17761	HOSE, 90 radiator - 2"	F.3.24
17767	TUBE, radiator splice	F.3.24
17768	TEE - 3855-6-4	B.1.4
17776	SPACER, rubber radiator / oil cooler mount	F.2.6
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

<u>Part #</u>	<u>Description</u>	<u>Location</u>
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
17833	RING, snap - 3" spherical busing	H.4.8
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 * K.1.6
17910	KNOB, wing nut	F.2.4
17918	WASHER, isolator mount - 7/8" x 3-1/2"	F.3.2 * K.1.6
17934	VALVE, relief - thermal bypass control	F.2.2
18006	BELT, seat - 3" wide	G.3.10
18034	CONNECTOR, straight - FF1852T-0606S	B.2.12
18050	PIN, chromed - 3" x 20"	H.2.4A
18052	PIN, chromed - 2-1/2" x 11-1/4"	H.3.6
18053	PIN, chromed - 3" x 14-1/2"	H.2.6 * H.2.6A
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.1.2
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
18084	CONNECTOR, straight - FF2000T-1212S	B.4.4 * B.4.6
18087	FAN SHROUD KIT	F.2.4
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
18107	HOSE, filter connection	E.1.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
18126	WEATHERSTRIP	G.1.2 * G.1.6 * G.2.4 * H.1.12 * H.1.14
18132	SOLENOID, fuel shut-off	F.3.12
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
18185	PLUG	C.2.2
18188	COVER, access - hydraulic tank heater	E.1.22
18189	LEXON, light guard - double	G.2.4
18190	LEXON, chin window	G.2.4
18192	O-RING	C.2.2
18193	O-RING	C.2.2
18194	PLUG	C.2.2
18197	SPOOL, pressure limiter	C.2.2
18198	SPOOL, load sense	C.2.2
18199	PIN	C.2.2
18200	SPRING, control	C.2.2
18201	GUIDE, spring	C.2.2
18212	COVER, foot pedal access	H.1.22
18214	BRACKET, cab ROPS/FOPS support	G.1.4
18215	FRAME, front window	G.2.4
18216	LEXON, front window	G.2.4
18232	BRACKET, terminal bracket support	J.1.16

<u>Part #</u>	<u>Description</u>	<u>Location</u>
18235	COVER, oil sump 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.2.4
18259	SHROUD, radiator - RH upper	F.2.4
18260	SHROUD, radiator - LH lower	F.2.4
18261	SHROUD, radiator - RH lower	F.2.4
18262	GUARD, fan	F.2.4 * 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 - 1/8"	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 * J.2.2A
18300	IN-TANK HYDRAULIC OIL HEATER ASSY	E.1.22
18305	SPACER, bolt	H.1.4
18309	BOLT - 1/4" X 1-1/4"	G.2.2 * G.2.4
18336	BATTERY, 12V	J.1.2 * J.1.4
18337	DECAL, California diesel exhaust warning	H.1.24
18390	SHIM, door latch striker - 5/16"	G.1.6
18395	SPACER, engine fan	F.3.6
18399	KEY, door	G.1.6
18402	NUT, nylock - 1-3/4"	H.3.8 * H.3.8A * H.3.10 * H.3.10A
18416	BOLT - 10mm x 25mm	F.3.22
18417	BOLT - 10mm x 75mm	F.3.6
18420	FITTING, grease - 1/4-28"	K.1.8 * K.1.10

<u>Part #</u>	<u>Description</u>	<u>Location</u>
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
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 * B.2.2A
18461	NIPPLE, close - 2-1/2"	B.2.2
18467	COVER, foot shuttle valve access	H.1.8
18472	COVER, fuel tank w/adapter	F.1.2
18480	TANK, fuel	F.1.2
18481	ELBOW, 90 - FF2032T-0606S	F.3.14
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
18570	WASHER, pin retaining	H.3.4 * H.3.4A * H.5.6 * H.6.2 * H.7.4 * H.7.4A * H.7.6
18575	BRACKET, hydraulic tank support angle	E.1.6
18580	NIPPLE, 90 king - 1601-16-12	B.3.2
18581	CONNECTOR, reducer - FF2281T-0812S	B.2.44 * B.2.46 * B.3.22
18582	CONNECTOR, straight bulkhead - FF1994T-0404S	B.3.30 * B.3.40 * B.3.40A * B.3.50
18584	MANIFOLD, return oil	B.1.2 * B.1.2A * B.2.50
18586	CABLE, battery master disconnect	J.1.6 * J.1.8
18635	COVER, tank access	E.1.2
18651	CLAMP, constant torque - #32	F.3.26
18660	DECAL, control diagram - U.S. standard bar saw	H.1.24
18677	PANEL, air cleaner	H.1.18
18684	COIL, solenoid - 12V	D.3.4
18699	HARNESS, wiring - lower light	J.3.22
18709	WASHER, articulation pin	H.4.10

<u>Part #</u>	<u>Description</u>	<u>Location</u>
18712	GUARD, light	G.3.12
18714	FAN SHROUD KIT	F.2.4 * 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
18748	PUMP, loader implement - Vickers PVH98	C.2.2
18761	FAN, engine - high pitch sucker	F.3.6
18770	BRACKET, hydraulic fill termination	E.1.20
18772	TUBE, diffuser	E.1.4
18777	WASHER, flat - 16mm	J.1.16
18798	SHIM, radiator / oil cooler mount	F.2.6
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
18828	CLAMP, strap band - 6-3/4"	F.3.20
18830	CLAMP, muffler mount - 5"	F.3.22
18835	VALVE, brake control	D.3.2
18845	BRACKET, throttle cable mount - engine	F.3.16
18846	BRACKET, throttle cable linkage	F.3.16
18851	CLAMP, constant torque - #32	F.3.24
18862	ACCUMULATOR	B.1.10 * B.4.12 * B.4.14
18865	VALVE, frame lock	D.3.4
18873	HOSE ASSEMBLY - 2036-04-040S-0409	B.3.44
18888	BRACKET, terminal	J.1.10
18895	PIN, chromed - 2-1/2 x 13-1/2"	H.3.6 * H.3.6A
18896	PIN, chromed - 3" x 11-1/4"	H.2.6 * H.2.6A
18897	PIN, frame lock cylinder mounting	H.4.12
18903	HOSE ASSEMBLY - 2066-20-200S-200S	B.2.20
18910	ELBOW, 90 rubber	F.3.20

<u>Part #</u>	<u>Description</u>	<u>Location</u>
18916	PIN, boom knuckle - 2-1/2"	H.3.4
18917	BUSHING - 2-1/2" X 2"	H.3.2
18930	TUBELINE - 3/4" X 170"	H.2.2
18931	TUBELINE, 1/2" X 216"	H.2.2
18932	TUBELINE - 1/2" X 96"	H.3.2
18933	BOLT - 1/2" X 1-3/4"	B.2.2 * B.2.2A * B.3.12
18949	PLUG - 6408-HHP-8	D.3.4
18950	PLUG - 6408-HHP-20	C.3.2
18965	BOLT, allen head - 8mm-1.25P x 20mm	D.3.2
19007	HOSE ASSEMBLY - 4055-12-120S-1209	B.2.26 * B.2.26A
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 - 2026-04-0SPS-02PS	H.1.6
19046	SHROUD, radiator - LH upper	F.2.4 * F.2.8
19047	SHROUD, radiator - RH upper	F.2.4 * F.2.8
19048	SHROUD, radiator - LH lower	F.2.4 * F.2.8
19049	SHROUD, radiator - RH lower	F.2.4 * F.2.8
19050	BRACKET, battery box	J.1.4
19051	ENGINE, Cummins C Series 6 cylinder/8.3litre	F.3.2
19052	SEAT ASSEMBLY	G.3.6 * G.3.8
19066	PEDAL ASSEMBLY	D.3.2
19072	BOLT - 7/8" X 5-1/2"	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, long straight - FF1854T-1212S	B.2.8 * B.4.4 * B.4.6
19117	BUSHING - 1-3/4" X 1-1/2"	H.3.8 * H.3.8A
19118	BUSHING - 45mm x 1/1/2"	H.3.8 * H.3.8A
19119	CAP, overflow bottle	E.1.16 * F.2.8
19123	DANGLE BLOCK ASSEMBLY	H.3.8 * H.3.8A
19126	ELBOW, 45 - FF2068T-080S	H.3.2
19127	ELBOW, 45 - FF2068T-1212S	B.2.8 * B.2.42 * B.4.2
19128	ELBOW, 90 - FF1868T-1216S	B.3.8 * B.3.22
19129	BUSHING - 3" X 1-1/2"	H.5.2
19150	SHIM - 1/4" thick	H.2.4A * H.3.4A

<u>Part #</u>	<u>Description</u>	<u>Location</u>
19154	ADAPTER, 90 - 63UF-16MOX20	B.3.12
19162	BRACKET, foot pedal control	G.3.12
19163	BOOT, rubber air intake	F.3.20
19179	CONNECTOR, VOAC valve	J.2.8 * J.2.8A * J.2.10
19180	CONTROL BOX - 4 function	J.2.2 * J.2.2A
19181	CONTROL BOX - 3 function	J.2.2 * J.2.2A
19182	HAND CONTROL, electronic - 3-axis	J.2.4
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
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 * H.2.2A
19210	PIN, floating bunk / steer cylinder mounting - base	H.5.6 * H.6.2 * H.7.6
19211	HOSE ASSEMBLY - 2041-06-06PS-06PS	F.1.4
19215	ELBOW, pushlock	F.1.6
19217	SPACER, radiator	F.2.6
19218	SPACER, radiator - 5/8"	F.2.6
19219	SPACER, radiator - 3/4"	F.2.6
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
19232	NUT, cylinder rod - 1-3/4"	E.2.4 * E.2.6 * E.2.10
19233	BARREL ASSEMBLY	E.2.4
19235	ROD ASSEMBLY	E.2.6
19236	BEARING, rod	E.2.6
19238	BARREL ASSEMBLY	E.2.6 * E.2.10
19245	SHACKLE, screw pin anchor - 5/16"	H.6.4

<u>Part #</u>	<u>Description</u>	<u>Location</u>
19246	LINK, chain - 3/8"	H.6.4
19247	DOOR, cab	G.1.2
19248	HANDLE, outside door	G.1.6
19253	COVER, pump access	H.1.22
19254	BRACKET, joystick mounting	G.3.10
19261	HOSE ASSEMBLY - 22022-08-080S-0804	E.1.20
19262	HOSE ASSEMBLY - 2075-12-120S-1204	E.1.20
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
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.2.12A * B.2.14 * B.2.14A * B.4.10
19307	BRACKET, control box mounting	J.2.2 * J.2.2A
19313	DECAL, pump rotation	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 * H.2.2A
19326	WELDMENT, main boom - 3-1/2" pin	H.2.2
19327	WELDMENT, stick boom	H.3.2
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 * J.2.2A
19358	CIRCUIT BOARD, amplifier - 24V	J.2.2 * J.2.2A
19359	CIRCUIT BOARD, input - 12V	J.2.2 * J.2.2A
19360	CIRCUIT BOARD, input - 24V	J.2.2 * J.2.2A
19361	NUT, lug	K.1.2 * K.1.4
19362	LIGHT, gauge	J.3.2
19363	MANIFOLD, rotary - ORB porting	D.2.2
19364	DECAL, welding notice	H.1.24 * H.1.28
19366	CONNECTOR, straight - 6403-NWO-6	B.2.14 * B.2.14A * B.4.10
19367	VALVE, fee-flow check	B.2.12 * B.2.12A
19371	MANIFOLD, rotary - BSPP porting	D.2.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
19383	BEARING, pillow block	K.1.8 * K.1.10
19384	WASHER, burned	H.3.4A
19385	COVER, access - steerbox / axle	H.5.4
19390	LIGHT, rectangular - dual lamp	H.1.20
19394	COVER, access - driveshaft	H.5.4
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
19448	PIN, steer cylinder mounting - rod	H.5.6
19464	HARNESS, wire - 2-speed shift	J.3.18
19470	CONNECTOR, straight - 4M14F8OMLO-S	B.3.28 * B.3.30 * B.3.38 * B.3.38A * B.3.40 * B.3.40A * B.3.48 B.3.50
19475	WELDMENT, stretched short-top cab	G.1.2
19477	DECAL, cold start pump de-stroke	H.1.28
19483	SHIM - 1/4" thick	H.2.4 * H.3.4
19484	SHIM - 1/16" thick	H.2.4 * H.3.4
19485	SHIM - 3/16" thick	H.2.4 * H.3.4
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 * J.2.8A
19492	CONNECTOR, straight w/orifice - 8-8-F40OMLO-S	B.2.40 * B.2.40A
19493	CONNECTOR, straight - 8-8-FF0ML0-S	B.2.32 * B.2.32A
19500	HATCH, front window escape	G.2.4
19503	PANEL, muffler	H.1.18
19504	FRAME, left side window	G.2.6
19507	GAUGE, fuel level	F.1.2
19508	LEXON, left side window	G.2.6
19510	BOLT, eye - 1/2" x 4"	G.2.4
19513	ADAPTER, 90 straight - 63SF-16MOX20	B.3.12
19514	ADAPTER, 90 flange - 63UF-16MOX20	B.3.16
19530	DECAL, door logo - TF820-C	H.1.28
19531	TEE - 5603-16	B.2.10

<u>Part #</u>	<u>Description</u>	<u>Location</u>
19532	MANIFOLD, valve / clam pressure	B.2.8
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 * H.7.4A
19544	PIN, clam bunk pivot	H.7.6
19546	PIN, clam arm	H.7.4 * H.7.4A
19550	AIR CLEANER ASSEMBLY	F.3.18
19551	NUT, wing	F.3.18
19562	COVER, access - ROPS panel	H.1.20
19573	PISTON	E.2.10A
19578	CLAMP, strap band - 1-3/4"	B.3.6
19580	BOLT, allen head - 3/8" x 1-1/2"	B.2.8
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
19615	BOLT - 1-1/2" X 13"	H.7.6
19616	BOLT - 1-1/2" X 17-1/2"	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.2.30A * B.2.32 * B.2.32A * B.2.38 * B.2.38A B.2.40 * B.2.40A
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.3.8A * H.3.10 * H.3.10A
19721	LATCH, cam - swing-out pump guard	H.1.14
19738	CLAM ARM CYLINDER ASSEMBLY	E.2.10A
19742	PISTON	E.2.2
19743	PISTON	E.2.4 * E.2.6
19744	MAIN BOOM CYLINDER ASSEMBLY	E.2.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
19745	STICK BOOM CYLINDER ASSEMBLY	E.2.4
19746	STEER CYLINDER ASSEMBLY	E.2.6 * E.2.10
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
19759	MOUNT, engine - LH front	F.3.2
19760	MOUNT, engine - RH front	F.3.2
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
19772	LATCH, cam - radiator guard	H.1.12
19774	GUARD, swing-out radiator	H.1.12
19776	TRANSMISSION, single pump drive	F.3.10
19779	SWITCH, pressure	B.3.56
19781	COVER, access - rear frame axle	H.5.4
19788	ROTATOR - Hultdins GV15US	H.3.10 * H.3.10A
19789	PIN, grapple mount	H.3.10 * H.3.10A
19790	SNUBBER	H.3.10 * H.3.10A
19791	TIRE - 54 X 37"/12 PLY	K.1.12
19799	TIRE/TUBE - 18.4-26/10 PLY	K.1.16
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
19878	FILTER, hydraulic - spin-on	C.3.10

<u>Part #</u>	<u>Description</u>	<u>Location</u>
19879	TRIM, panel - door	G.3.2 * G.3.2A
19880	TRIM, formed - door post	G.3.2 * G.3.2A
19881	TRIM, formed - RH rear post	G.3.2 * G.3.2A
19882	TRIM, formed - LH rear post	G.3.2 * G.3.2A
19883	TRIM, formed - front window bottom	G.3.2
19885	TRIM, formed - LH front post	G.3.2
19886	TRIM, formed - RH front post	G.3.2
19887	FLOORMAT, cab	G.3.2 * G.3.2A
19895	DRIVE SHAFT ASSEMBLY - COMPLETE	K.1.8 * K.1.10
19895-1	DRIVE SHAFT	K.1.8 * K.1.8A
19895-2	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
19896	LOG STAKE, adjustable	H.6.4 * H.6.4A
19897	BOLT - 1" X 29"	K.1.2 * K.1.4
19898	BOLT - 27mm-3.0P x 160mm	K.1.2 * 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
19903	LEXON, skylight	G.2.6
19904	FRAME, skylight window	G.2.6
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-L	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 * E.2.10A
19917	BUSHING, spherical - 2"	E.2.6 * E.2.10 * E.2.10A

<u>Part #</u>	<u>Description</u>	<u>Location</u>
19920	RIM, wheel - 23.1-26	K.1.14
19960	BARREL ASSEMBLY	E.2.10A
19962	BEARING, rod	E.2.10A
19963	ROD ASSEMBLY	E.2.10A
19964	KIT, seal repair - steer / clam arm cylinder - 5"	E.2.10A
19968	SPEAKER	J.3.28
19994	LEXON, skylight	G.2.6
20001	HOSE ASSEMBLY - 2082-04-040S-0409	B.2.54
20004	RIM, wheel - 700/50-26.5" wide	K.1.12
20006	WHEEL ASSEMBLY, 700/50-26.5" - LH	K.1.12
20007	WHEEL ASSEMBLY, 700/50-26.5 - RH	K.1.12
20008	HOSE ASSEMBLY - 2071-04-040S-040S	B.1.2A
20015	HARNESS, wire - 2-speed	J.3.16
20018	STEM, valve	K.1.12
20044	PIN, boom knuckle - 3"	H.3.4A
20047	PEDAL, foot control - electronic	J.2.6
20048	BUSHING - 3" X 2"	H.3.2A
20049	SPACER, nose - 3" x 1-1/2"	H.2.2A
20063	BRACKET, gearbox mounting - RH	K.1.6
20064	BRACKET, gearbox mounting - LH	K.1.6
20065	TEE, branch - 16-S50L0-S	B.3.14
20068	BUSHING, black reducer - 3' X 1-1/4"	E.1.24
20069	HEATER ASSEMBLY	E.1.2
20071	HOSE ASSEMBLY - 2032.5-08-10JS-10JS	G.1.2 * G.1.2A
20072	WELDMENT, swing-out engine guard	H.1.16
20075	CHAIN, 8 links - 3/8"	H.6.4A
20076	LINK, mid - 3/8"	H.6.4A
20078	LATCH, toggle	H.1.16
20080	HOSE ASSEMBLY - 2071-04-040S-040S	B.1.2
20081	HOSE ASSEMBLY - 2034.5-12-120S-1209	B.1.2
20082	HOSE ASSEMBLY - 2036.5-04-040S-0409	B.1.4 * B.2.12A * B.2.14A
20083	HOSE ASSEMBLY - 4039-08-080S-0809	B.1.6
20084	BOLT - 3/8" X 1-3/4"	H.4.2
20087	HOSE ASSEMBLY - 2125-06-060S-0609	B.3.32

<u>Part #</u>	<u>Description</u>	<u>Location</u>
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
20098	HOSE ASSEMBLY - 2037-12-120S-120S	B.2.4
20099	HOSE ASSEMBLY - 4018-12-120S-1209	B.2.8
20100	HOSE ASSEMBLY - 2021.5-12-120S-1209	B.2.10
20102	HOSE ASSEMBLY - 2027-06-060S-060S	B.2.12
20103	HOSE ASSEMBLY - 2052-04-040S-040S	B.2.16 * B.3.42
20105	HOSE ASSEMBLY - 2050-16-160S-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 * B.2.24A
20109	HOSE ASSEMBLY - 4067-12-120S-120S	B.2.24 * B.2.24A
20110	HOSE ASSEMBLY - 4057-12-120S-120S	B.2.26 * B.2.26A
20111	HOSE ASSEMBLY - 4069-0808S-0809	B.2.28 * B.2.28A
20112	HOSE ASSEMBLY - 4045.5-08-080S-0804	B.2.30 * B.2.30A * B.2.38 * B.2.38A
20113	HOSE ASSEMBLY - 4047-08-080S-0804	B.2.30 * B.2.30A * B.2.38 * B.2.38A * B.4.12A
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 * B.2.36A
20119	ORIFICE	B.2.40 * B.2.40A
20120	HOSE ASSEMBLY - 4061-12-120S-120S	B.2.42
20121	HOSE ASSEMBLY - 4051-12-120S-120S	B.2.42
20122	HOSE ASSEMBLY - 4105-12-120S-120S	B.2.44
20123	HOSE ASSEMBLY - 4107-12-120S-120S	B.2.44
20124	HOSE ASSEMBLY - 4028-08-180S-0809	B.2.44
20125	HOSE ASSEMBLY - 4043-08-080S-0809	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
20131	HOSE ASSEMBLY - 4044-08-080S-080S	B.3.52

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20132	HOSE ASSEMBLY - 4034-08-080S-0809	B.3.54
20136	HOSE ASSEMBLY - 4088-08-080S-080S	B.3.54
20142	HOSE, suction - 1017-16	B.3.6
20143	HOSE, suction - 2-1/2" x 13*1/2"	B.2.2 * B.2.2A
20144	HOSE ASSEMBLY - 2036-12-120S-1209	B.3.8
20145	HOSE ASSEMBLY - 2034-04-040S-040S	B.2.12 * B.2.14
20152	HOSE ASSEMBLY - 6043-16-160S-1604	B.3.12
20153	HOSE ASSEMBLY - 6047.5-16-160S-1609	B.3.12 * B.3.12A
20157	HOSE ASSEMBLY- 6041-16-160S-1609-W	B.3.14
20162	HOSE ASSEMBLY - 2104-04-040S-040S	B.3.50
20165	HOSE ASSEMBLY - 2049.5-04-040S-040S	B.3.36 * B.3.36A
20167	HOSE ASSEMBLY - 2009.5-04-040S-0409	B.3.28 * B.3.30 * B.3.38 * B.3.38A * B.3.40 * B.3.40A
20176	HOSE ASSEMBLY - 2062-04-040S-0409	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
20193	HOSE ASSEMBLY - 4080-12-120S-1209	B.4.8
20194	HOSE ASSEMBLY - 2017.5-04-040S-0409	B.4.10
20195	HOSE ASSEMBLY - 4031-08-080S-0809	B.4.12 * B.4.12A * B.4.14 * B.4.14A
20196	CONNECTOR, straight bulkhead - FF199T-080S	B.4.12 * B.4.12A * B.4.14 * B.4.14A
20197	HINGE, weld-on	H.4.4
20198	HOSE ASSEMBLY - 4045-08-080S-0804	B.4.12 * B.4.12A
20199	HOSE ASSEMBLY - 4046-08-080S-0804	B.4.14 * B.4.14A
20201	HOSE ASSEMBLY - 4048-08-080S-0804	B.4.14 * B.4.14A
20202	HOSE ASSEMBLY - 2028.5-06-060S-0609	B.2.14
20204	PIN, grapple mount	H.3.8 * H.3.8A
20205	NUT, grapple mount pin	H.3.8 * H.3.8A
20206	WASHER, grapple mount pin	H.3.8 * H.3.8A
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

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20213	COVER, access - rear drive motor	H.4.4
20214	COVER, access - condenser	G.1.2
20215	COVER, access - A/C unit tray	G.4.4
20216	BRACKET, fire suppression mounting	G.1.2
20217	COVER, access - turntable riser	H.4.4
20225	TRIM, panel - RH light	G.3.2 * G.3.2A
20226	TRIM, panel - A/C - RH	G.3.2 * G.3.2A * G.4.4
20227	TRIM, panel - rear bottom	G.3.2 * G.3.2A
20228	TRIM, panel - A/C - LH	G.3.2 * G.3.2A * G.4.4
20229	TRIM, panel - rear top	G.3.2 * G.3.2A
20230	FLOORMAT, rear shelf	G.3.2 * G.3.2A * G.4.4
20231	TRIM, panel - LH bottom	G.3.2 * G.3.2A
20232	TRIM, panel - LH top	G.3.2 * G.3.2A
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 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
20250	PIN, clam bunk cylinder rod - 2" x 6"	H.7.4
20252	PIN, clam cylinder rod - 2" x 7"	H.7.4A
20254	CARTRIDGE, POR relief valve	C.3.4
20257	CLAMP	G.4.6
20258	RELAY, travel signal	J.2.8A
20261	STEM, valve	K.1.12
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
20265	VALVE, shuttle	B.3.56

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20286	CARTRIDGE, solenoid valve	D.1.6
20287	CARTRIDGE, solenoid valve	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, repair - relief valve cartridge	D.1.6
20294	KIT, seal repair - solenoid cartridge	D.1.6
20295	COIL, mono-block valve - 12V	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	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, 750/55-26.5" - 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 * C.3.4
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
20324	O-RING, ORB - #16	C.3.4
20325	O-RING, ORB - #16	C.3.2
20328	KIT, seal repair - complete AA4VG180	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

<u>Part #</u>	<u>Description</u>	<u>Location</u>
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 had - 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.3.82
20374	BRUSH, contact	D.2.2
20397	HOSE ASSEMBLY - 4067.5-12-120S-1209	B.4.4
20398	HOSE ASSEMBLY - 4064.5-12-120S-120S	B.4.6
20415	BOLT - 1-1/2" X 19"	H.7.6

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20416	HOSE ASSEMBLY - 2030-06-06PS	F.1.4
20419	SHAFT, drive	F.3.10
20421	HARNESS, wire - electronic foot pedal "B"	J.2.8A
20423	BRACKET, fuel return junction	F.3.14
20424	HOSE ASSEMBLY - 2120-06-060S-0609	F.3.14
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, intermediate	C.3.8
20444	BOLT, allen head - 12mm-1.75P x 45mm	C.3.8
20445	FILTER, coolant	F.3.8
20446	ADAPTER, pump drive - SAE "E"	F.3.10
20447	BOLT, adapter mounting	F.3.10
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.2.2A
20457	PROTECTOR, spiral hose wrap - 3-1/2"	B.2.24A * B.2.28A * B.2.36A
20458	HOSE ASSEMBLY - 2107-04-040S-040S	B.3.30 * B.3.40 * B.3.40A
20459	HOSE ASSEMBLY - 2028.5-04-040S-0409	B.3.38
20461	HOSE ASSEMBLY - 2071-04-040S-0409	B.3.44

<u>Part #</u>	<u>Description</u>	<u>Location</u>
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 * B.3.40A
20471	HOSE ASSEMBLY - 2019-08-080S-0809	B.1.12
20472	HOSE ASSEMBLY - 2054-08-080S-0804	B.3.20
20473	HOSE ASSEMBLY - 2034.5-12-120S-1209	B.1.2A
20475	HOSE ASSEMBLY - 4086-08-080S-0804	B.3.54
20538	HOSE ASSEMBLY - 2089-06-060S-060S	B.2.12A * B.2.14A
20548	HOSE ASSEMBLY - 6039.5-16-160S-1609-W	B.3.14
20550	HOSE ASSEMBLY - 6033-16-160S-1609-W	B.3.16
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 - 2240-06-06OS-06OS	J.5.10 * J.5.12
20622	SCREW, machine - #10-24 x 2"	J.3.10
20623	BOLT - 16mm-2.0P x 90mm	J.1.16
20624	SPACER, rear engine mount	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
20634	COVER	J.2.2 * J.2.2A
20635	PLACARD, face	J.2.2 * J.2.2A
20636	SCREW	J.2.2 * J.2.2A
20637	SCREW	J.2.2 * J.2.2A
20638	BUTTON, push	J.2.4
20639	SPRING, push button switch	J.2.4

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20640	NUT, nylock - 4mm	J.2.4
20641	POTENTIOMETER - 5 ohm	J.2.4
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 * J.2.8A
20657	HARNESS, wire - electronic foot pedal "B"	J.2.8 * J.2.8A
20658	BRACKET, lock valve signal shuttle mount	B.3.56
20661	BOLT - 5/8" X 1-1/2"	K.1.6
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
20675	O-RING, cover	D.2.2
20677	U-JOINT, driveshaft	K.1.10
20678	ELBOW, 45 swivel - FF2133T-0808S	B.2.30A * B.2.38A
20679	CONNECTOR, straight - 6403-NWO-6	B.2.12A * B.2.14A
20681	SWITCH, foot pedal - 24V	J.2.6
20683	BOLT, allen head - 3" x 2-1/2"	B.3.10
20685	RING, snap	C.3.12
20686	SHIM, shaft seal	C.3.12

<u>Part #</u>	<u>Description</u>	<u>Location</u>
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
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	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

<u>Part #</u>	<u>Description</u>	<u>Location</u>
20741	SHIM, hydraulic tank support	E.1.6
20742	SHIM, hydraulic tank support	E.1.6
20743	BRACKET, air vent guard	G.4.8
20744	BRACKET, air vent guard adapter	G.4.8
20745	BOOT	D.3.2
20746	PISTON	D.3.2
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
20758	SPACER	H.7.4A
20759	GROMMET	C.2.4
20780	COVER, brake piston	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 - 4108-08-080MS-080MS	H.3.2A
20794	HOSE ASSEMBLY - 4155-12-120MS-120MS	H.2.2A
20795	HOSE ASSEMBLY - 4207-08-080MS-080MS	H.2.2A
20817	ISOLATOR, sandwich mount	J.2.2A
20819	HOSE ASSEMBLY - 4085-12-120S-120S	B.4.4 * B.4.6
20820	HOSE ASSEMBLY - 2078-16-160S-1609	B.2.18A
20826	HOSE ASSEMBLY - 2075-16-160S-160S	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

<u>Part #</u>	<u>Description</u>	<u>Location</u>
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
20836	COVER, dash wiring	J.3.10
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.3.38A * B.3.40 * B.3.40A * B.3.48 B.3.50
20849	HOSE ASSEMBLY - 2130-04-040S-040S	B.3.24
20857	ALTERNATOR - 12V / 160 AMP	F.3.8
20858	WELDMENT, stick boom heel	H.3.12A
20859	WELDMENT, log bunk	H.6.4B
20862	HOSE ASSEMBLY - 2098.5-04-040S-040S	B.3.26
20863	HOSE ASSEMBLY - 2031.5-04-040S-0409	B.3.38A
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, adjuster air - dash	G.4.6
20878	VENT, adjustable air - floor	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

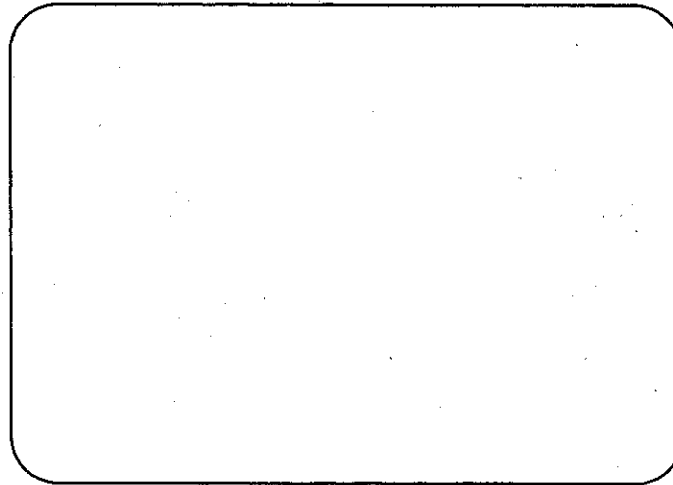
<u>Part #</u>	<u>Description</u>	<u>Location</u>
20886	COVER, access - A/C unit RH	G.4.4
20887	HARNESS, A/C w/bracket	G.4.4
20888	BASE, A/C relay mounting	G.4.4
20889	RELAY, A/C - 40/30A	G.4.4
20891	CONNECTOR, straight bulkhead - #6	G.4.12
20892	CONNECTOR, straight bulkhead - #10	G.4.12
20894	HOSE, air 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
20899	VALVE, water sensor	G.4.14 * J.4.2
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.6.4B
20906	BOLT - 3/4" X 16"	H.6.4B
20912	SWITCH, rocker - ON/OFF	J.3.4
20913	STRIP, terminal - 20 terminal	J.3.2
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
20930	HOSE ASSEMBLY - 2070-08-080S-0809	B.3.18
20933	HOSE ASSEMBLY - 2062-08-080S-0809-W	B.3.22
20934	HOSE ASSEMBLY - 2053-08-080S-0809-W	B.3.22
20935	HOSE ASSEMBLY - 2035-04-040S-0409	B.3.28
20936	HOSE ASSEMBLY - 4043.5-08-080S-0804-W	B.3.4
20937	HOSE ASSEMBLY - 4041-08-080S-0804	B.3.4
20947	DECAL, preventive maintenance - gar-max bushing	H.1.26
21200	SHROUD, radiator - LH upper	F.2.8

<u>Part #</u>	<u>Description</u>	<u>Location</u>
21201	SHROUD, radiator - RH upper	F.2.8
21214	GUARD, fan - lower	F.2.8
21679	DECAL, cab operating instructions	H.1.24
22064	CUSHION, seat	G.3.8
22230	DECAL, emergency escape check	H.1.24
22252	GASKET, air cleaner filter	F.3.18
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
22407	LEXON, sky scratch	G.2.6A
22408	RIM, wheel - 28L-26	K.1.12
22409	TIRE/TUBE - 28L-16/14 ply	K.1.12
22484	SWITCH, push button	J.5.2
22485	CAP, push button switch	J.5.2
22661	FAN SHROUD KIT	F.2.8
22662	SHROUD, radiator - LH lower	F.2.8
22663	SHROUD, radiator - RH lower	F.2.8
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
22868	DECAL, temperature setting	J.3.2
22869	TEMPERATURE CONTROL SWITCH	J.4.4
22872	HARNESS, wire - Air conditioner / heater unit	J.4.6
22871	HARNESS - A/C	J.4.2

<u>Part #</u>	<u>Description</u>	<u>Location</u>
22395	AM/FM RADIO/CASSETTE PLAYER	J.3.28
24307	SEAT BACK ASSEMBLY	G.3.8
80000	BLOCK	H.3.8 * H.3.8A
80189	WELDMENT, log rack	H.6.6
80193	WELDMENT, floating bunk	H.6.2
80218	BRACKET, hydraulic tank exterior mounting	E.1.6
80233	WELDMENT, stick boom heel	H.3.12
80234	SWITCH, rocker - A/C mode select	J.3.8
80235	SWITCH, rocker - 3-way fan speed	J.3.8
80240	REAR FRAME WELDMENT	H.5.2
80277	COVER, access - tool box	H.4.4
80300	FRONT FRAME WELDMENT	H.4.2
80316	COVER, access - axle box	H.4.6 * H.5.4
80317	COVER, access - frame side	H.4.4
80321	WELDMENT, lower log stake	H.6.4 * H.6.4A
80322	WELDMENT, upper log stake	H.6.4 * H.6.4A * H.6.4B
80331	COVER, access - rear frame axle	H.5.4
80329	COVER, access - belly pan	H.4.6
85000	WELDMENT, stick boom	H.3.2A
85100	WELDMENT, main boom	H.2.2A

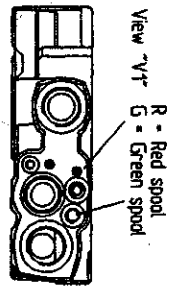
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Blue - A



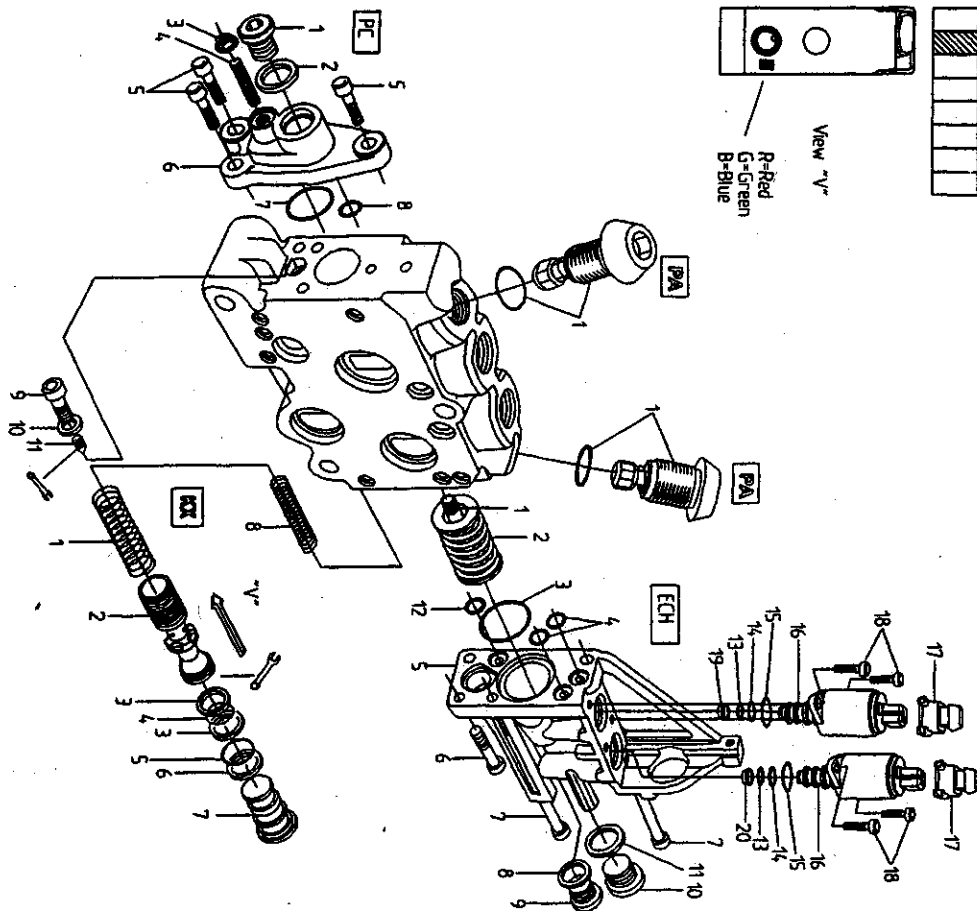
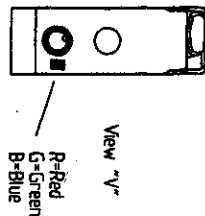
Vendor Component Info Packet -

***VOAC
Loader Implement Valve
PN# 19178***



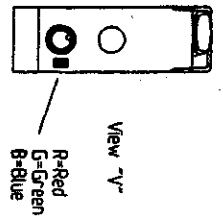
Blue A.1

Spool section #1 Spool code RDX

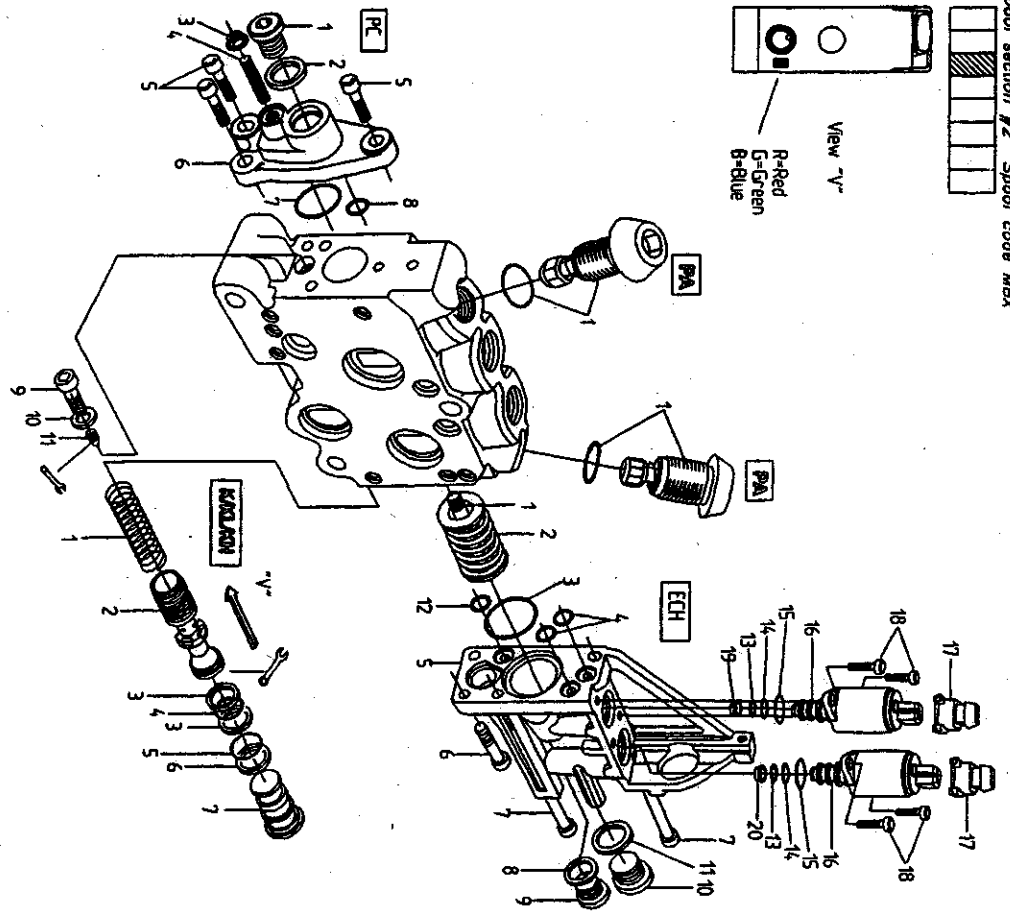


Function Code	Kit No	Description	Remarks / Items
EC A	39300K37	CP KIT EC G, A-SD	1, 2, 3, 4, 5, 6, 7, 8
EC A	39300K41	SEA KIT EC A-SEE	2, 3, 7, 8
EC B	39300K52	CP KIT EC T, B-SD	3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 15
EC B	39300K26	PIECES 12 VDC	8
EC B	39300K38	SEA KIT PIECES	12, 14, 15
EC B	39300K22	CONNECTOR KIT 1 PIECES	17
EC B	39300K43	SPRING KIT EA/EC/ECH	3, 4
EC B	39300K46	SEA KIT EC B-SEE	3, 4, 5, 6, 7, 8, 9, 10, 12
EC B	716236	THROTTLE WASHER 0.6	
EC B	716236	THROTTLE WASHER 0.6	
EC	39300K6	COMPENSATOR KIT EC, SIZE B	
EC	39300K67	COMPENSATOR KIT EC, SIZE G	
EC	39300K48	COMPENSATOR KIT EC, SIZE R	
EC	39300K41	SEA KIT EC A-SEE	3, 4, 5, 6
EC	70877706	THROTTLE SCREW PH 0.8 PH	
PA A	39300K87	PLCS 250 BAR	1
PA B	39300K87	PLCS 250 BAR	1

Spool section #2 Spool code MBX



View "V"

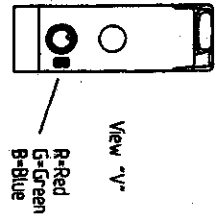
R-Red
G-Green
B-Blue

Function Code	Kit No	Description	Remarks / Items
EC A	393000387	CAP KIT EC "V", A-SIZE	1, 2, 3, 4, 5, 6, 7, 8
EC A	393000043	SEAL KIT EC A-SIZE	2, 3, 7, 8
EC B	393000632	CAP KIT EC "V", B-SIZE	1, 4, 5, 6, 7, 8, 9, 10, 12, 16, 18
EC B	393000286	PCVS 2 VDC	6
EC B	393000048	SEAL KIT PCVS	12, 14, 15
EC B	393000022	CONNECTOR KIT 1 PCVS	7
EC B	393000043	SPRING KIT BV/CL/KCH	1, 4
EC B	393000046	SEAL KIT EC B-SIZE	1, 4, 5, 6, 7, 8, 9, 10, 12
EC B	393000287	THROTTLE WASHER 0.8	
EC B	393000287	THROTTLE WASHER 0.8	
EC B	393000639	COPROGATION KIT K, SIZE B	1, 2, 7, 9, 10
EC B	393000046	COPROGATION KIT K, SIZE G	1, 2, 7, 9, 10
EC B	393000046	COPROGATION KIT K, SIZE R	1, 2, 7, 9, 10
EC B	393000046	SEAL KIT K/CL/KCH	1, 2, 4, 5, 6
EC B	393000046	THROTTLE SCREW M6 0.8 PM	
PA A	393000087	PL053 250 BAR	1
PA B	393000087	PL053 250 BAR	1

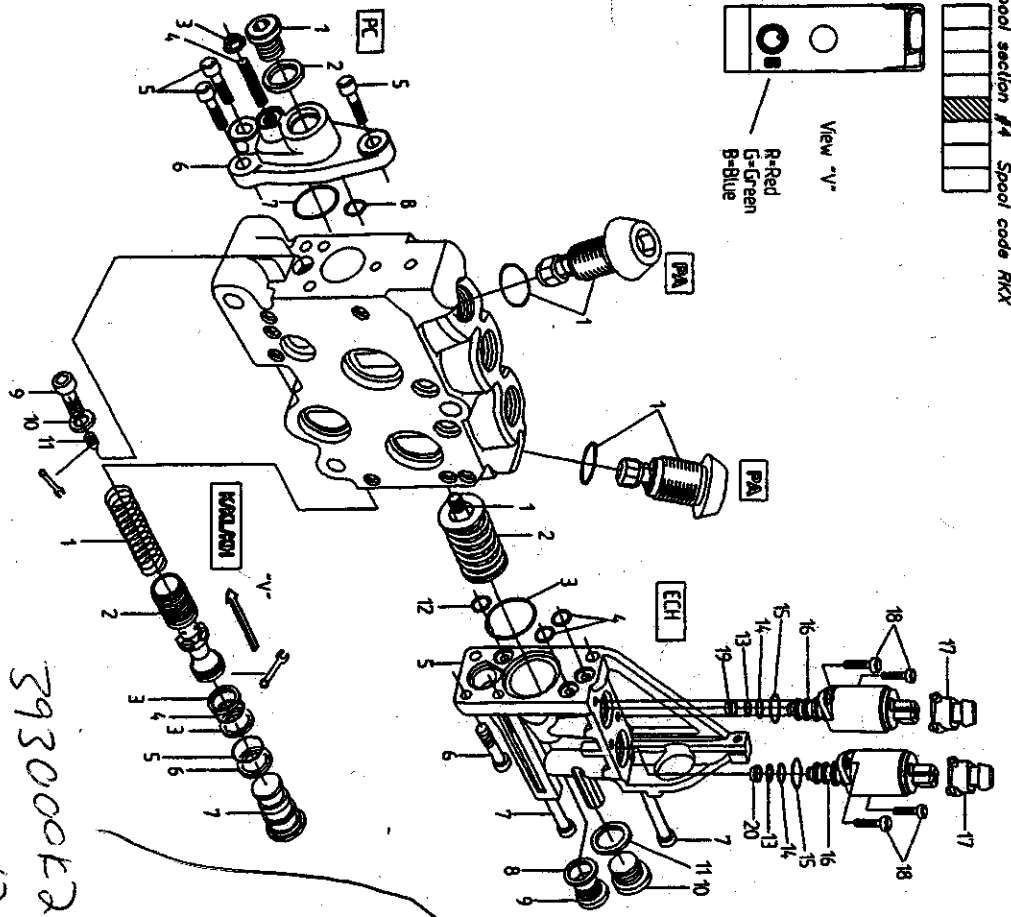
Spare Parts List



Spool section #4 Spool code RXX



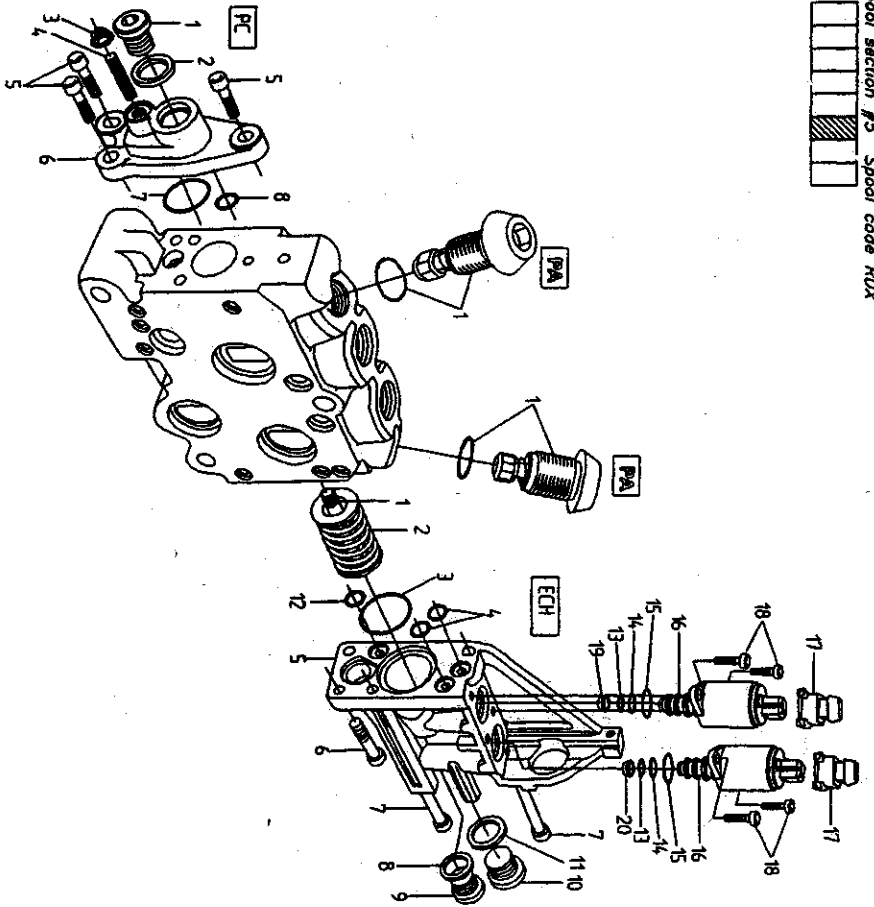
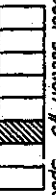
View "V"
R-Red
G-Green
B-Blue



3930004286
PVCAS 18VDC

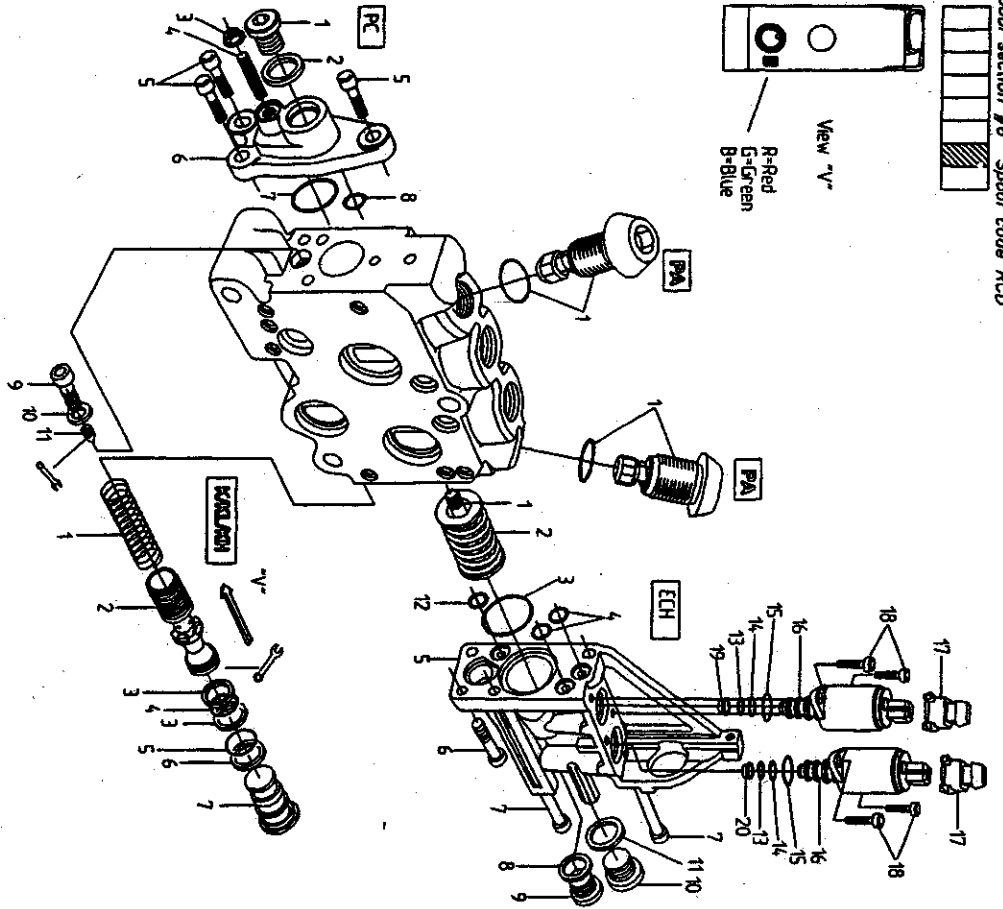
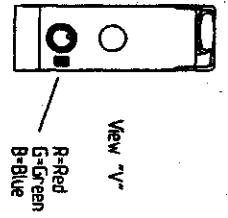
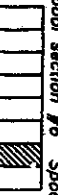
Function Code	Qty No	Description	Remarks / Items
EC A	39300037	CAP W/ RC T5 A-20	1, 2, 3, 4, 5, 6, 7, 8
EC A	39300043	SEAL W/ RC A-20E	2, 3, 7, 8
EC B	39300032	CAP W/ EC V, B-20	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
EC B	39300036	PVCAS 2 VDC	6
EC B	39300045	SEAL W/ PVCAS	13, 14, 15
EC B	39300042	CONNECTOR W/ 1 PVCAS	17
EC B	39300043	SPRING W/ (B/C/D)	3, 4
EC B	39300044	SEAL W/ EC B-20E	3, 4, 5, 6, 7, 8
EC B	39300045	THROTTLE WASHER 0.8	1
EC B	39300046	THROTTLE WASHER 0.8	1
EC B	39300047	THROTTLE WASHER 0.8	1
EC B	39300048	THROTTLE WASHER 0.8	1
EC B	39300049	THROTTLE WASHER 0.8	1
EC B	39300050	THROTTLE WASHER 0.8	1
EC B	39300051	THROTTLE WASHER 0.8	1
EC B	39300052	THROTTLE WASHER 0.8	1
EC B	39300053	THROTTLE WASHER 0.8	1
EC B	39300054	THROTTLE WASHER 0.8	1
EC B	39300055	THROTTLE WASHER 0.8	1
EC B	39300056	THROTTLE WASHER 0.8	1
EC B	39300057	THROTTLE WASHER 0.8	1
EC B	39300058	THROTTLE WASHER 0.8	1
EC B	39300059	THROTTLE WASHER 0.8	1
EC B	39300060	THROTTLE WASHER 0.8	1
EC B	39300061	THROTTLE WASHER 0.8	1
EC B	39300062	THROTTLE WASHER 0.8	1
EC B	39300063	THROTTLE WASHER 0.8	1
EC B	39300064	THROTTLE WASHER 0.8	1
EC B	39300065	THROTTLE WASHER 0.8	1
EC B	39300066	THROTTLE WASHER 0.8	1
EC B	39300067	THROTTLE WASHER 0.8	1
EC B	39300068	THROTTLE WASHER 0.8	1
EC B	39300069	THROTTLE WASHER 0.8	1
EC B	39300070	THROTTLE WASHER 0.8	1
EC B	39300071	THROTTLE WASHER 0.8	1
EC B	39300072	THROTTLE WASHER 0.8	1
EC B	39300073	THROTTLE WASHER 0.8	1
EC B	39300074	THROTTLE WASHER 0.8	1
EC B	39300075	THROTTLE WASHER 0.8	1
EC B	39300076	THROTTLE WASHER 0.8	1
EC B	39300077	THROTTLE WASHER 0.8	1
EC B	39300078	THROTTLE WASHER 0.8	1
EC B	39300079	THROTTLE WASHER 0.8	1
EC B	39300080	THROTTLE WASHER 0.8	1
EC B	39300081	THROTTLE WASHER 0.8	1
EC B	39300082	THROTTLE WASHER 0.8	1
EC B	39300083	THROTTLE WASHER 0.8	1
EC B	39300084	THROTTLE WASHER 0.8	1
EC B	39300085	THROTTLE WASHER 0.8	1
EC B	39300086	THROTTLE WASHER 0.8	1
EC B	39300087	THROTTLE WASHER 0.8	1
EC B	39300088	THROTTLE WASHER 0.8	1
EC B	39300089	THROTTLE WASHER 0.8	1
EC B	39300090	THROTTLE WASHER 0.8	1
EC B	39300091	THROTTLE WASHER 0.8	1
EC B	39300092	THROTTLE WASHER 0.8	1
EC B	39300093	THROTTLE WASHER 0.8	1
EC B	39300094	THROTTLE WASHER 0.8	1
EC B	39300095	THROTTLE WASHER 0.8	1
EC B	39300096	THROTTLE WASHER 0.8	1
EC B	39300097	THROTTLE WASHER 0.8	1
EC B	39300098	THROTTLE WASHER 0.8	1
EC B	39300099	THROTTLE WASHER 0.8	1
EC B	39300100	THROTTLE WASHER 0.8	1

Spool section /5 Spool code RDX



Function Code	K# No	Description	Remarks / Items
EC A	39300K027	CPV RT PC T, A-SD	1, 2, 3, 4, 5, 6, 7, 8
EC A	39300K043	SEA RT PC A-SEE	2, 3, 7, 8
EC B	39300K052	CPV RT EC T, B-SD	1, 4, 20, 5, 6, 20, 7, 20, 8, 10, 12, 20, 14
EC B	39300K056	PCVS 12 VDC	6
EC B	39300K063	SEA RT PCVS	13, 14, 5
EC B	39300K072	CONNECTOR RT 1 PCVS	7
EC B	39300K083	SPRING RT (B)/EC/H	3, 4
EC B	39300K086	SEA RT EC B-SEE	3, 4, 20, 8, 11, 12
EC B	39300K097	INNOVATE WASHER 0.8	
PA A	39300K097	PLCS 250 BAR	1
PA B	39300K097	PLCS 250 BAR	1

Spool section #6 Spool code RCD



Function Code	Kit No	Description	Remarks / Items
EL A	393000317	CAP KIT RC T5 A-50	1, 2, 3, 4, 5, 6, 7, 8
EL A	393000043	SEAL KIT RC A-SIZE	2, 3, 7, 8
EL B	393000632	CAP KIT EL V, B-50	1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
EL B	393000286	PISTON KIT	6
EL B	393000089	SEAL KIT PISTON	12, 14, 15
EL B	393000022	CONNECTOR KIT 1 PISTON	17
EL B	393000043	SPRING KIT EL/RC/CH	1, 4
EL B	393000044	SEAL KIT EL B-SIZE	3, 4, 5, 6, 7, 8, 9, 10, 11, 12
EL B	393000298	THROTTLE WASHER 10	
EL B	393000298	THROTTLE WASHER 10	
RC	393000055	COMPRESSOR KIT RC SIZE B	
RC	393000056	COMPRESSOR KIT RC SIZE G	
RC	393000057	COMPRESSOR KIT RC SIZE R	
RC	393000081	SEAL KIT RC/R/CH	3, 4, 5, 6
RC	908377708	THROTTLE SCREW RC 0.8 MM	
PA A	393000087	PISTON 250 BAR	1
PA B	393000087	PISTON 250 BAR	1

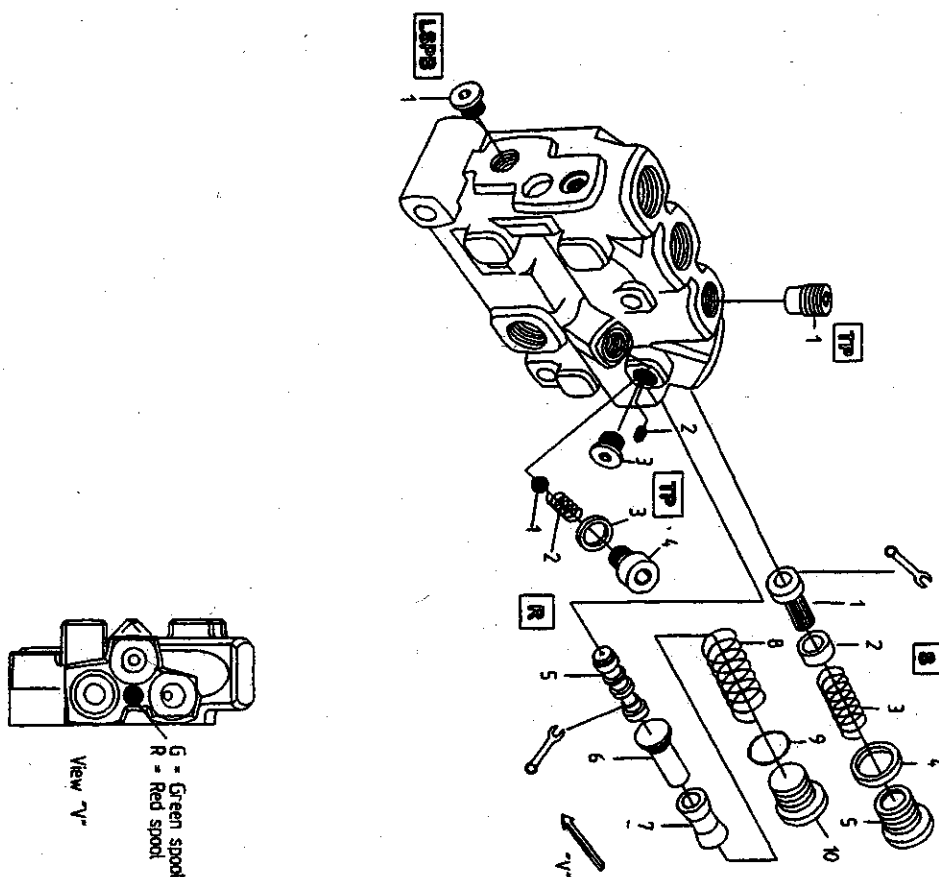
Spare Parts List

L90LS-06-US07-079A

L90LS-06-US07-079A

Spare Parts List

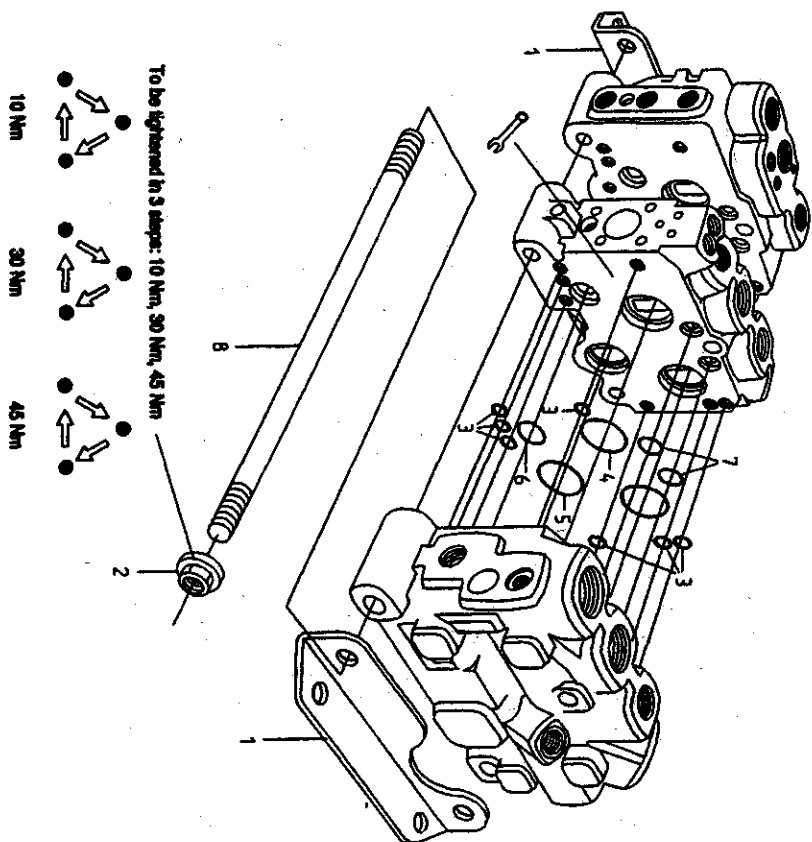
Outlet section



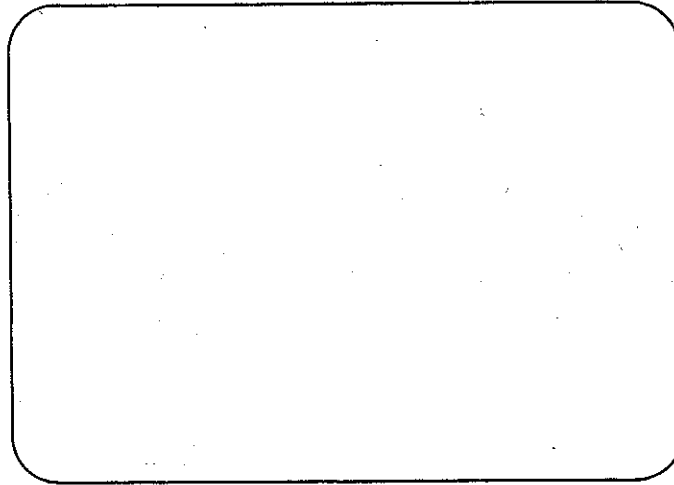
Function Code	KI No	Description	Remarks / Mens
LPR	393000078	PLOT LPR "U"	1
R	393000073	PLOT SUPPLY REOL. RS SIZE G	1,2,3,4,5,6,7,8,9,10
R	393000043	PLOT SUPPLY REOL. RS SIZE R	1,2,3,4,5,6,7,8,9,10
S	393000074	PLOT SUPPLY STRAND S	1,2,3,4,5
TP	393000078	MULT TP, "U"	

Spare Parts List

Tie-rods, Brackets, Seal kils

[illegible]

Blue - B

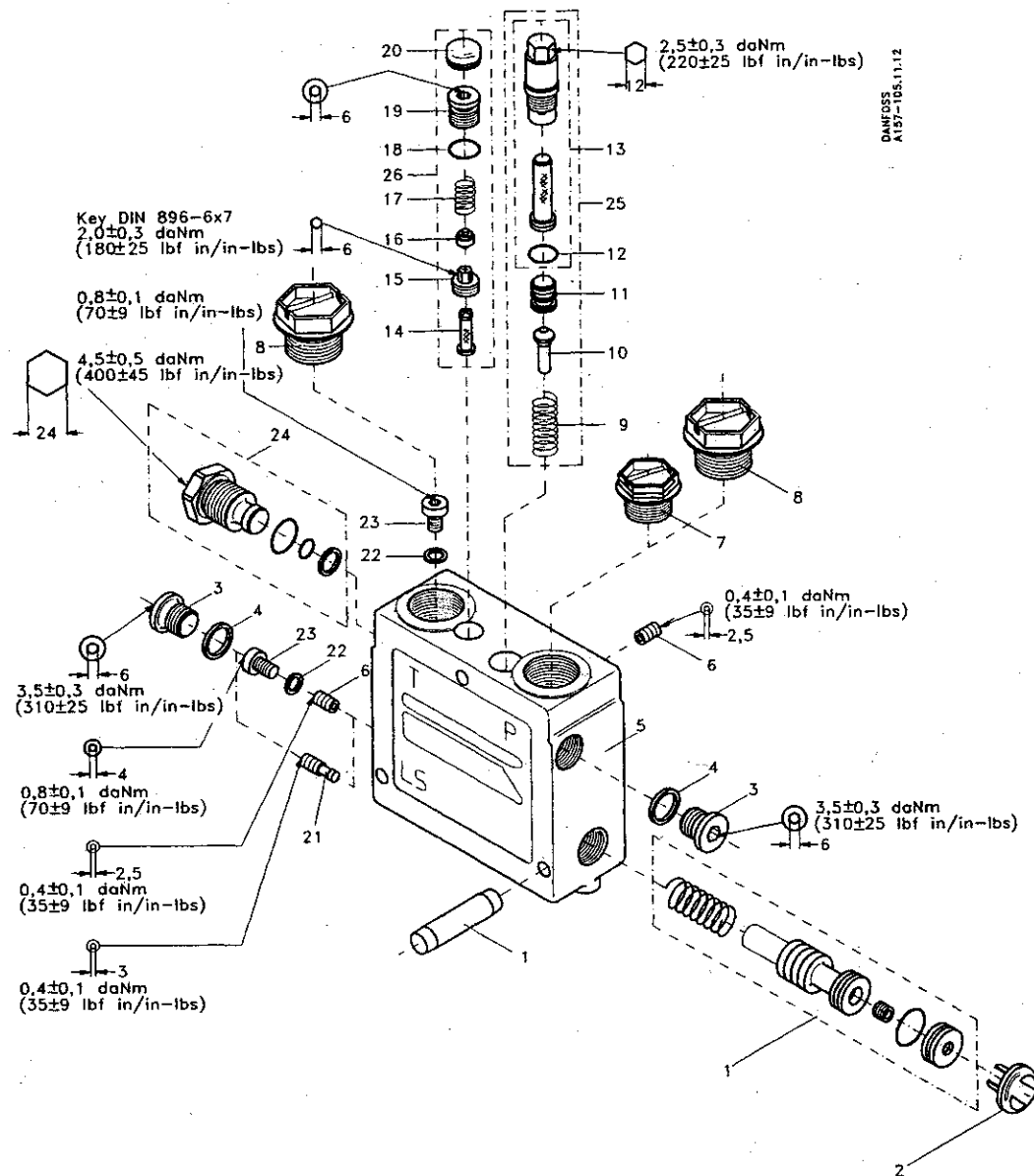


Vendor Component Info Packet -

**DANFOSS
Clam Bunk Valve**

Complete Seal Kit:

- 3) 157B8999 Face seals
- 2) 157B3999 Lever seal kits
- 2) 157B4997 Solenoid seal kits

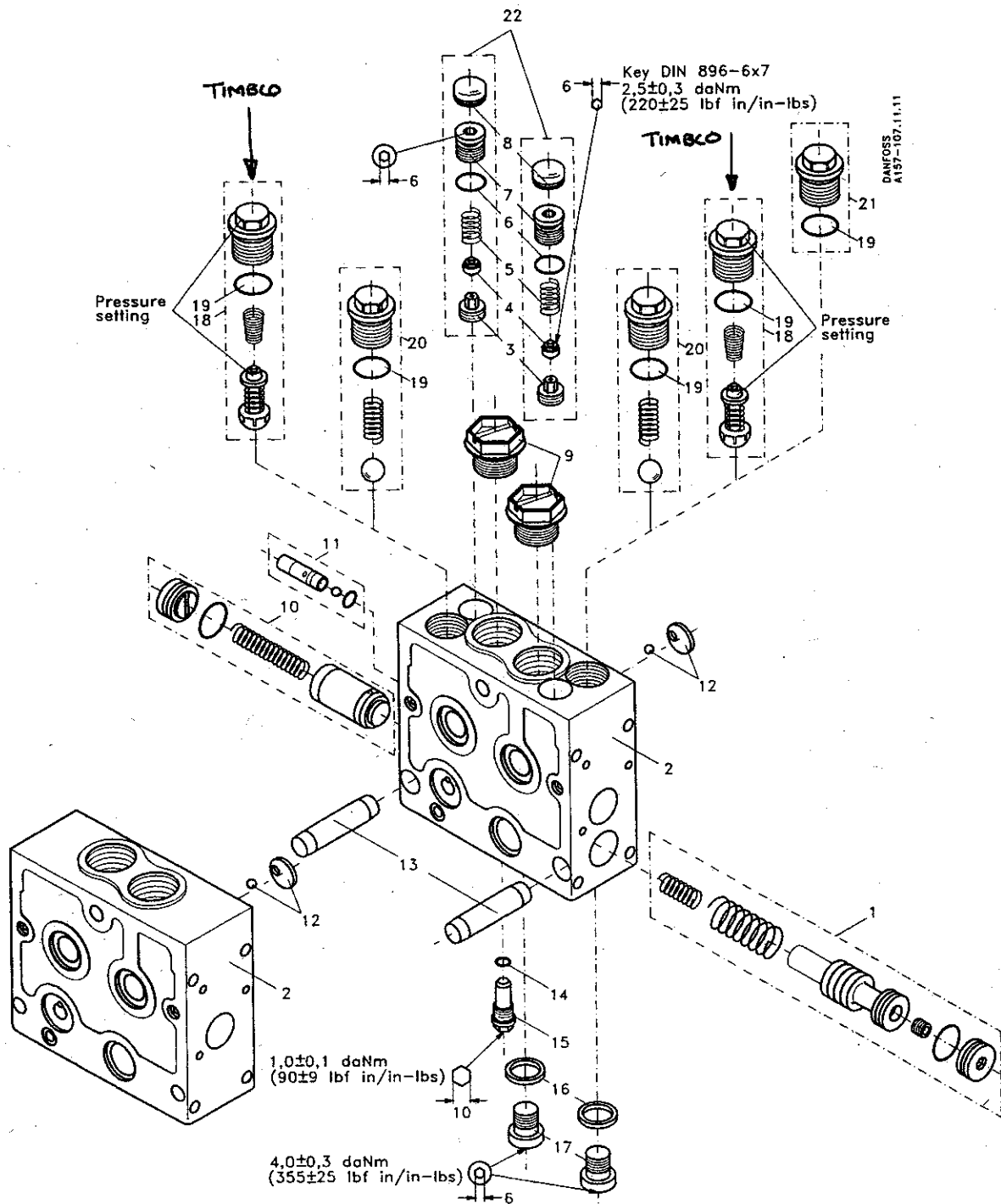


PVP pump side module

Type			Code No.	
			G - thread	UNF - thread
PVP Open centre	P-port < $G \frac{1}{2}$ = $\frac{7}{8}$ -14 UNF	Excl. pilot supply for PVE	157B5000	157B5200
PVP Open centre	P-port < $G \frac{3}{4}$ = $1 \frac{1}{16}$ -12 UNF		157B5100	157B5300
PVP Closed centre	P-port < $G \frac{1}{2}$ = $\frac{7}{8}$ -14 UNF		157B5001	157B5201
PVP Closed centre	P-port < $G \frac{3}{4}$ = $1 \frac{1}{16}$ -12 UNF		157B5101	157B5301
PVP Open centre	P-port < $G \frac{1}{2}$ = $\frac{7}{8}$ -14 UNF	Incl. pilot supply for PVE	157B5010	157B5210
PVP Open centre	P-port < $G \frac{3}{4}$ = $1 \frac{1}{16}$ -12 UNF		157B5110	157B5310
PVP Closed centre	P-port < $G \frac{1}{2}$ = $\frac{7}{8}$ -14 UNF		157B5011	157B5211
PVP Closed centre	P-port < $G \frac{3}{4}$ = $1 \frac{1}{16}$ -12 UNF		157B5111	157B5311
PVP Open centre	P-port < $G \frac{1}{2}$ = $\frac{7}{8}$ -14 UNF	Incl. pilot supply for PVE and facilities for PVPX	157B5012	157B5212
PVP Open centre	P-port < $G \frac{3}{4}$ = $1 \frac{1}{16}$ -12 UNF		157B5112	157B5312
PVP Closed centre	P-port < $G \frac{1}{2}$ = $\frac{7}{8}$ -14 UNF		157B5013	157B5213
PVP Closed centre	P-port < $G \frac{3}{4}$ = $1 \frac{1}{16}$ -12 UNF		157B5113	157B5313
PVP Open centre	P-port < $G \frac{3}{4}$ = $1 \frac{1}{16}$ -12 UNF	Incl. pilot supply for PVE and external Pp	157B5180	
PVP Open centre	P-port < $G \frac{3}{4}$ = $1 \frac{1}{16}$ -12 UNF	Incl. pilot supply for hydraulic activation and external Pp	157B5190	
PVP Closed centre	P-port < $G \frac{3}{4}$ = $1 \frac{1}{16}$ -12 UNF		157B5191	

Item	Description	Code No.														
1	Inlet compensator, assy.	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	Plastic plug	155L5370	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	Plug	$G \frac{1}{2}$ - thread	155L6388	3	3	3	2	2	2	2	2	2	2	2	2	2
		$\frac{1}{2}$ -20 UNF - thread	155L6406				2	2	2	2	2	2	2	2	2	2
4*	Washer 13.5 x 17.5 x 1.5	G / UNF - thread	684X2120	3	3	3	2	2	2	2	2	2	2	2	2	2
5	Housing	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1
6	Orifice M6	-	155L5389	2	1	1	2	2	1	1	2	2	1	1	2	2
7	Plastic plug	$G \frac{1}{2}$ - thread	633X1422					1		1		1		1		1
		$\frac{7}{8}$ -14 UNF - thread	633X1021					1		1		1		1		1
		$G \frac{3}{4}$ - thread	633X1420	2	2	2	2	1	2	1	2	1	2	1	2	1
8	Plastic plug	$1 \frac{1}{16}$ -12 UNF-thread	633X1122				2	1	2	1	2	1	2	1	2	1
								1	1	1	1	1	1	1	1	1
9	Spring		155L5375													
	Spring		155L5396	1	1											
10	Cone		155L5376	1	1	1	1	1	1	1	1	1	1	1	1	1
11	Spool		155L5377	1	1	1	1	1	1	1	1	1	1	1	1	1
12*	O-ring Ø11.0 x 2.0		633B1818	1	1	1	1	1	1	1	1	1	1	1	1	1
13	Filter plug (incl. item 12)		155L5150	1	1	1	1	1	1	1	1	1	1	1	1	1
14	Filter		155L5365	1	1	1	1	1	1	1	1	1	1	1	1	1
15	Seat		155L6365	1	1	1	1	1	1	1	1	1	1	1	1	1
16	Thrust pad		155L6150	1	1	1	1	1	1	1	1	1	1	1	1	1
17	Spring		155L6370	1	1	1	1	1	1	1	1	1	1	1	1	1
18*	O-ring Ø9.0 x 2.0		633B1816	1	1	1	1	1	1	1	1	1	1	1	1	1
19	Adjusting screw		155L6387	1	1	1	1	1	1	1	1	1	1	1	1	1
20*	Plastic plug		155L6377	1	1	1	1	1	1	1	1	1	1	1	1	1
21	Plug M6; L = 19	Open centre only	155L5153				1	1			1	1			1	1
22*	Bonded seal 6.7 x 10 x 1.0		633B9008	1			2	2	1	1	1	1			1	1
23	Screw M6; L = 8		681X1506	1			2	2	1	1	1	1			1	1
24	PVPX plug (se page 14)		157B5601				1	1	1	1						
25	Pilot supply		155L5157	1	1	1	1	1	1	1	1	1	1	1	1	1
26	Pressure relief valve		155L5156	1	1	1	1	1	1	1	1	1	1	1	1	1

PVB (basic module)
 PVLA (anti-cavitation valve)
 PVLP (shock and anti-cavitation valve)



PVB (basic module)

Type		Code No.	
		G - thread	UNF - thread
PVP	Without compensator/check valve	157B6000	157B6400
PVP	With check valve	157B6100	157B6500
PVP	With compensator valve	157B6200	157B6600
PVP	With compensator valve, LSA/B relief valve and LSA/B shuttle valve	157B6202	157B6602
PVB	With damped compensator valve	157B6206	
PVB	With damped compensator valve LSA/B relief valve and LSA/B shuttle valve	157B6207	
PVP	Without compensator/check valve	157B6020	157B6420
PVP	With check valves	157B6120	157B6520
PVP	With check valve and LSA/B shuttle valve	157B6125	157B6525
PVP	With compensator valve	157B6220	157B6620
PVP	With compensator valve, LSA/B relief and LSA/B shuttle valve	157B6222	157B6622
PVB	With damped compensator valve	157B6226	
PVB	With damped compensator valve LSA/B relief valve and LSA/B shuttle valve	157B6227	

Item	Description	Code No.														
1	Compensator valve, assy.	-	1	1	1	1					1	1	1	1		
2	Housing	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	Seat	155L6365	2		2					2		2				
4	Thrust pad	155L6150	2		2					2		2				
5	Spring	155L6370	2		2					2		2				
6*	O-ring Ø9.0 × 2.0	633B1816	2		2					2		2				
7	Adjusting screw	155B6387	2		2					2		2				
8*	Plastic plug	155L6377	2		2					2		2				
9	Plastic plug	G ½ - thread	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		⅝-14 UNF-thread			2	2	2	2	2			2	2	2	2	2
10	Check valve, assy	-					1	1							1	
11	Shuttle assy	-	1		1		1			1		1				
12	Shuttle assy	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	Pipe	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14*	O-ring Ø6.0 × 1.5	633B1810	1	1						1	1					
15	Damping screw (incl. item 14)	155L6151	1	1						1	1					
16*	Washer 13.5 × 17.5 × 1.5	G / UNF - thread	2		2					2		2				
17	Plug	G ¼ - thread	2		2					2		2				
		⅜ - 20 UNF thread			2							2				
22	Relief valve assy.	155L6153	1		1					1		1				

*	Set of seals (see page 20)	157B6999	1	1	1					1	1	1				
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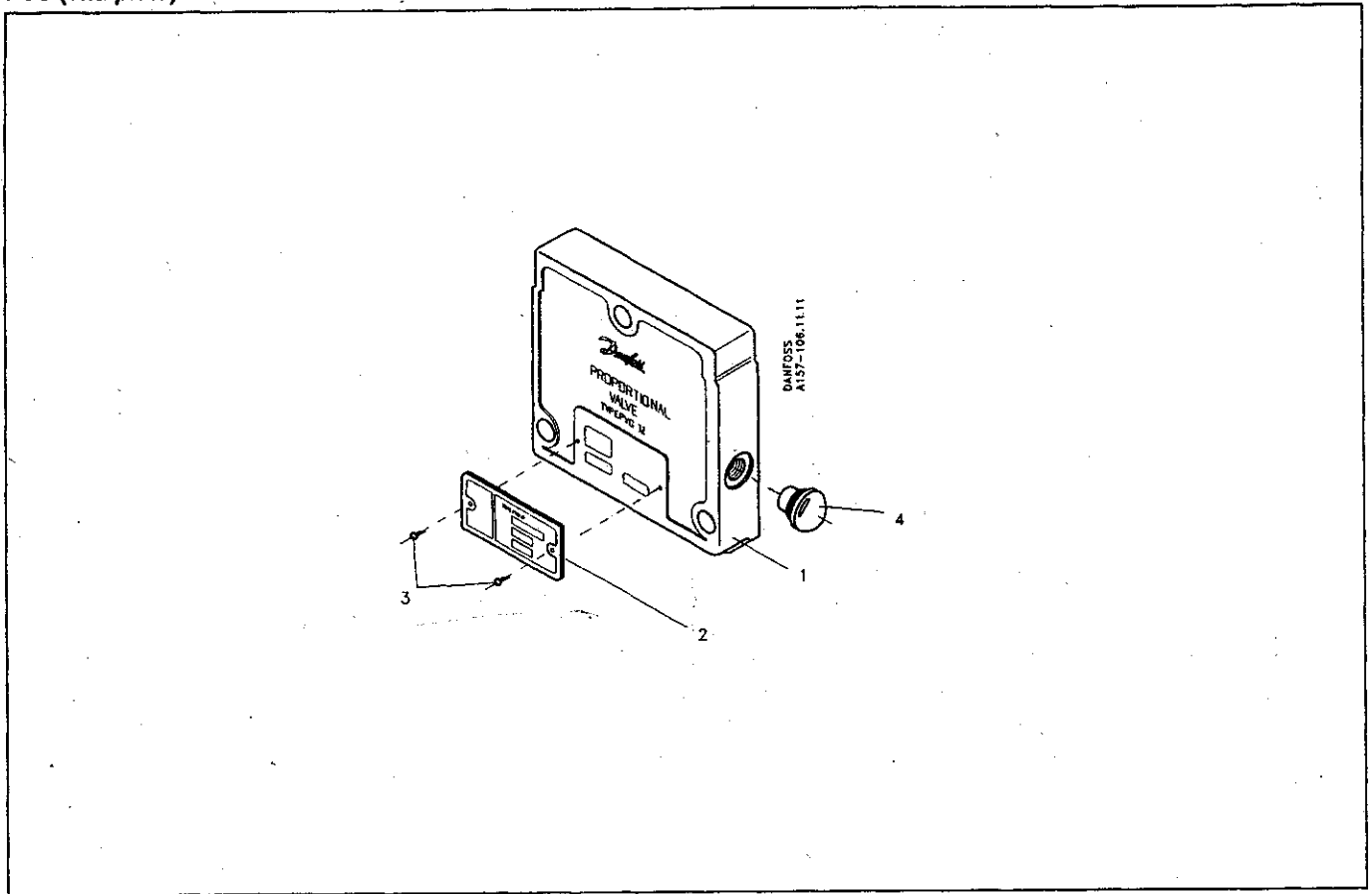
PVLA (anti-cavitation valve)

PVLP (shock and anti-cavitation valve)

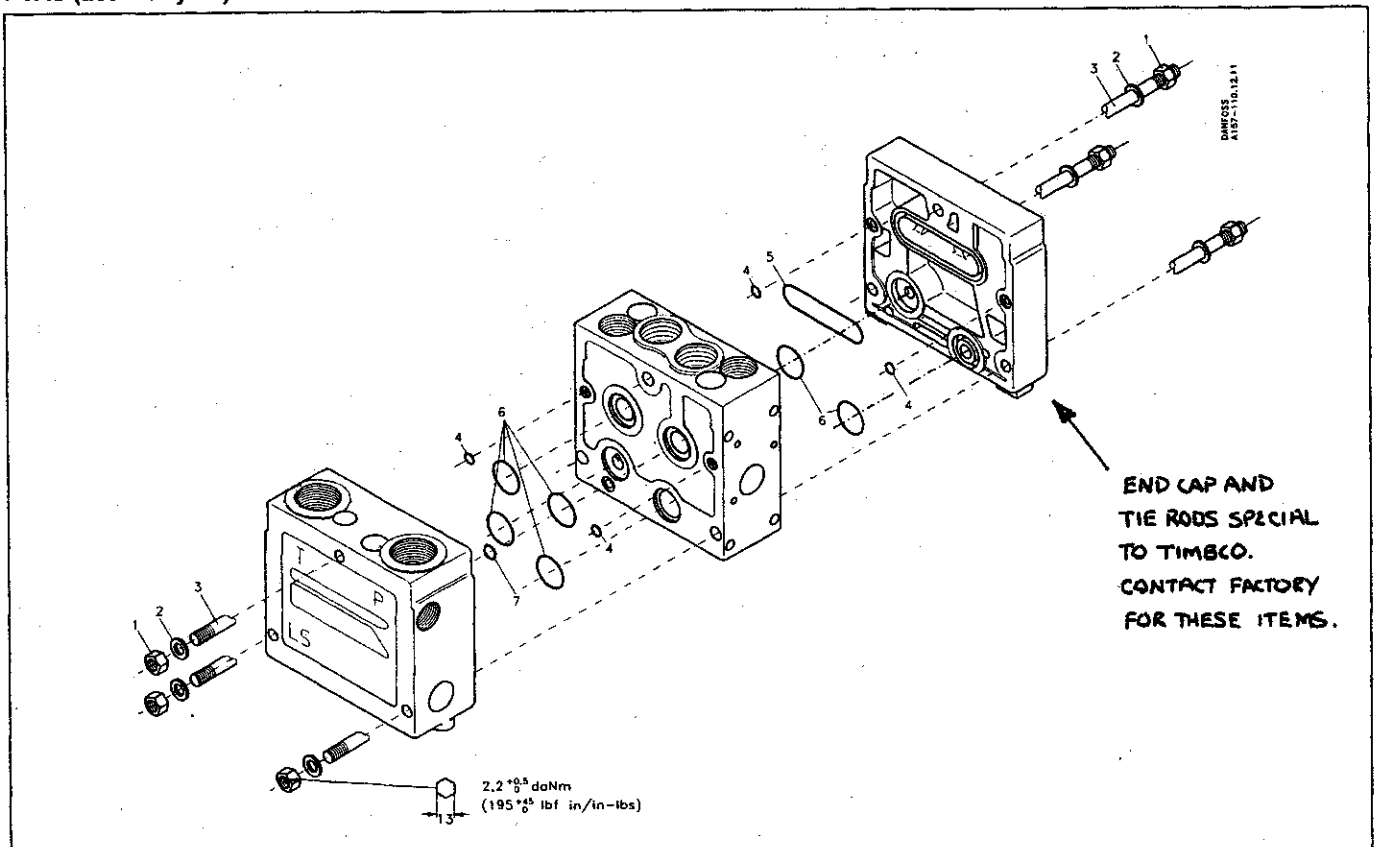
Type	Code No.
PVLP setting pressure 50, 63, 100, 125, 140, 160, 175, 190, 210, 230, 240, 250, 265, 280, 30 and 320 bar	157B1...
PVLA valve	157B1001
PVLA plug	157B1002

Item	Description	Code No.			
18	PVLP assy.	-			1
19	O-ring Ø16.0 × 1.5	633B1813	1	1	1
20	PVLA assy. valve	-			1
21	PVLA assy. plug	-	1		

PVS (end plate)



PVAS (assembly kit)



PVS (end plate)

Type	Code No.	
	G-thread	UNF-thread
PVS without connections	157B2000	157B2020
PVS with LX connections	157B2020	157B2021

Item	Description	Code No.		
1	End module, assy.	-	1	1
2*	Name plate (incl. item 3)	155L2150	1	1
3*	Drive screw	681Z1011	1	1
4	Plastic plug	633X1008	1	

* only to be used by change of specification

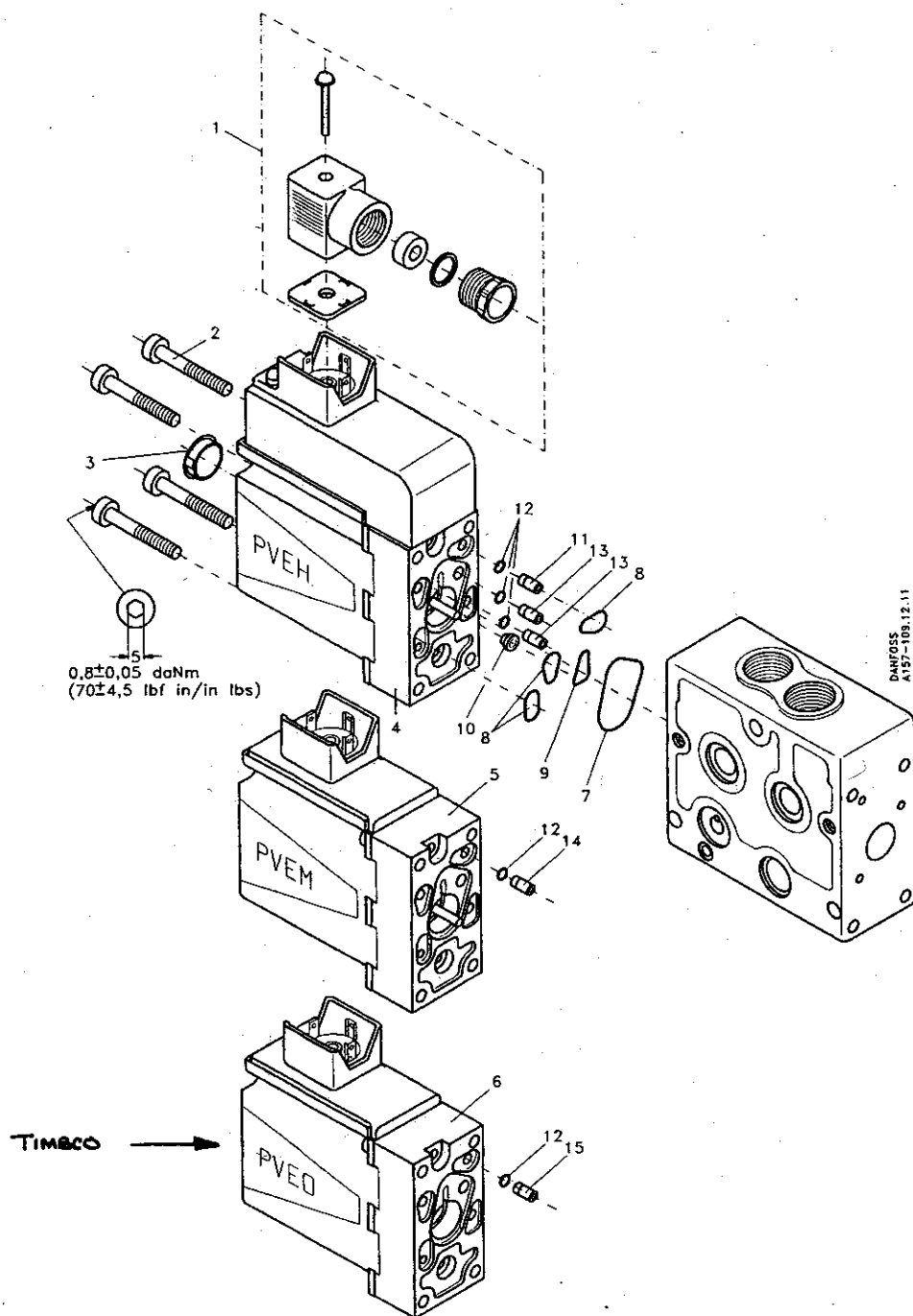
PVAS (assembly kit)

Type	Code No.
PVAS for 1 PVB on PVGI	157B8000
PVAS for 1 PVB basic module	157B8001
PVAS for 2 PVB basic modules	157B8002
PVAS for 3 PVB basic modules	157B8003
PVAS for 4 PVB basic modules	157B8004
PVAS for 5 PVB basic modules	157B8005
PVAS for 6 PVB basic modules	157B8006
PVAS for 7 PVB basic modules	157B8007
PVAS for 8 PVB basic modules	157B8008
PVAS for 9 PVB basic modules	157B8009
PVAS for 10 PVB basic modules	157B8010

Item	Description	Code No.																	
1	Nut 8.0	681X8018	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	3	
2	Washer 8.1 × 15.2 × 1.5	684X2591	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	3	
3	Stay bolt M8; L = 91	155L8350																3	
	Stay bolt M8; L = 140	155L8351															3		
	Stay bolt M8; L = 189	155L8352														3			
	Stay bolt M8; L = 238	155L8353													3				
	Stay bolt M8; L = 287	155L8354											3						
	Stay bolt M8; L = 336	155L8355									3								
	Stay bolt M8; L = 385	155L8356										3							
	Stay bolt M8; L = 434	155L8357											3						
	Stay bolt M8; L = 483	155L8358												3					
	Stay bolt M8; L = 527	155L8359																	
Stay bolt M8; L = 576	155L8360																		
4*	O-ring Ø5.0 × 2.0	633B1809	22	20	18	16	14	12	10	8	6	4	3	2	1	1	1		
5*	O-ring Ø44.0 × 2.5	633B1814	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
6*	O-ring Ø16.0 × 2.5	633B1817	44	40	36	32	28	24	20	16	12	8	6	4	3	2	1		
7*	O-ring Ø10.0 × 2.5	633B0120	10	9	8	7	6	5	4	3	2	1	1	1	1	1	1		

*	Set of seals (see page 20)	157B8999	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
---	----------------------------	----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

PVEH (electrical activation, proportional high)
 PVEM (electrical activation, proportional medium)
 PVEO (electrical activation, on-off)



PVEH (electrical activation, proportional high)
PVEM (electrical activation, proportional medium)
PVEO (electrical activation, on-off)

Type		Code No.	
		12 V	24 V
PVES	0% hysteresis (proportional)	157B4813	157B4825
PVEH	Standard (proportional)	157B4013	157B4025
	Passive fault monitoring (proportional)	157B4083	157B4085
	Float position (proportional)	157B4313	157B4325
PVEM	Standard (proportional)	157B4113	157B4125
	Float position (proportional)	157B4413	157B4425
PVEO	Standard (On - Off)	157B4213	157B4225

↑ 15
2/16/96

[illegible]

*	Set of seals (see page 20)	157B4997	1	1	1	1	1	1	1
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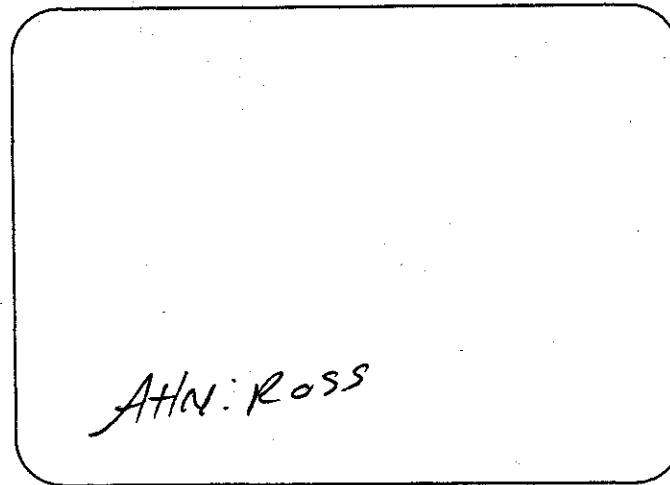
Set af seals for PVG 32

Type	Code No.
PVP module	157B5999
PVB module	157B6999
PVM/PVH/PVMD/PVMR/PVMF module	157B3999
PVEO/PVEM/PVEH module	157B4997*
PVAS for a PVG with 1 PVB section	157B8999
PVPX module	157B4998
*PVEO/PVEM/PVEH module before middle 1993	157B4999

Description	Code No.								
O-ring $\varnothing 9.0 \times 2.0$	633B1816							2	1
O-ring $\varnothing 11.0 \times 2.0$	633B1818								1
Washer $13.5 \times 17.5 \times 1.5$	684X2120							2	1
Bonded seal $6.7 \times 10.0 \times 1.0$	633X9008								1
Plastic plug	155L6377							2	1
O-ring $\varnothing 6.0 \times 1.5$	633B1810							3	1
O-ring $\varnothing 5.0 \times 2.0$	633B1809	4		4		6			
O-ring $\varnothing 44.0 \times 2.5$	633B1814			1					
O-ring $\varnothing 16.0 \times 2.5$	633B1817			4					
O-ring $\varnothing 10.0 \times 2.5$	633B0120			1					
Sealing	633B1812							1	
Seal nut M 6.0	681X8270							2	
O-ring $\varnothing 30.0 \times 2.5$	633B0241					1			
O-ring $\varnothing 10.0 \times 2.0$	684B1461					3			
O-ring $\varnothing 4.0 \times 1.0$	633B0204					3			
O-ring $\varnothing 8.0 \times 2.0$	633B1056					1			
O-ring $\varnothing 21.20 \times 2.4$	633B1808	1					1		
*O-ring $\varnothing 8.0 \times 2.5$	633B1819			1					
*O-ring $\varnothing 10.5 \times 1.8$	633B1834							2	2
O-ring $\varnothing 19.3 \times 2.4$	633B1136							1	
O-ring $\varnothing 33.0 \times 2.5$	633B1811							1	
O-ring $\varnothing 9.25 \times 1.78$	633B1243			1					
O-ring $\varnothing 16.36 \times 2.21$	633B0046			1					
Backup-ring $\varnothing 98$	633B0117			1					
O-ring $\varnothing 14.0 \times 1.78$	633B1981			2					

*not shown on drawing

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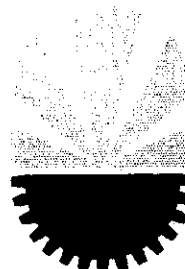


Vendor Component Info Packet -

**NAF
Front Tandem Bogie Axle
PN# 19768**

Spare parts list

Type: TIM 06/0
Description: Bogie axle
Valid ex factory .-No.: 11
Date of creation: 1/15/98



NAF

Contents:

Description	List	Drawing	Page
Assembly drawing	---	TAP 7601.101	2
Differential	10.137.000.01	10.100.000.A	3-5
Axle beam A1 side	30.157.000.01	30.109.000.A	6-8
Axle beam A2 side	30.158.000.01	"	7-8
Tandem axle beam	50.036.000.01	50.024.000.A	9-10
Outer component	20.102.000.01	20.086.000.A	11-12
Spring loaded cylinder	Z 036	516-350	13-14

Important!

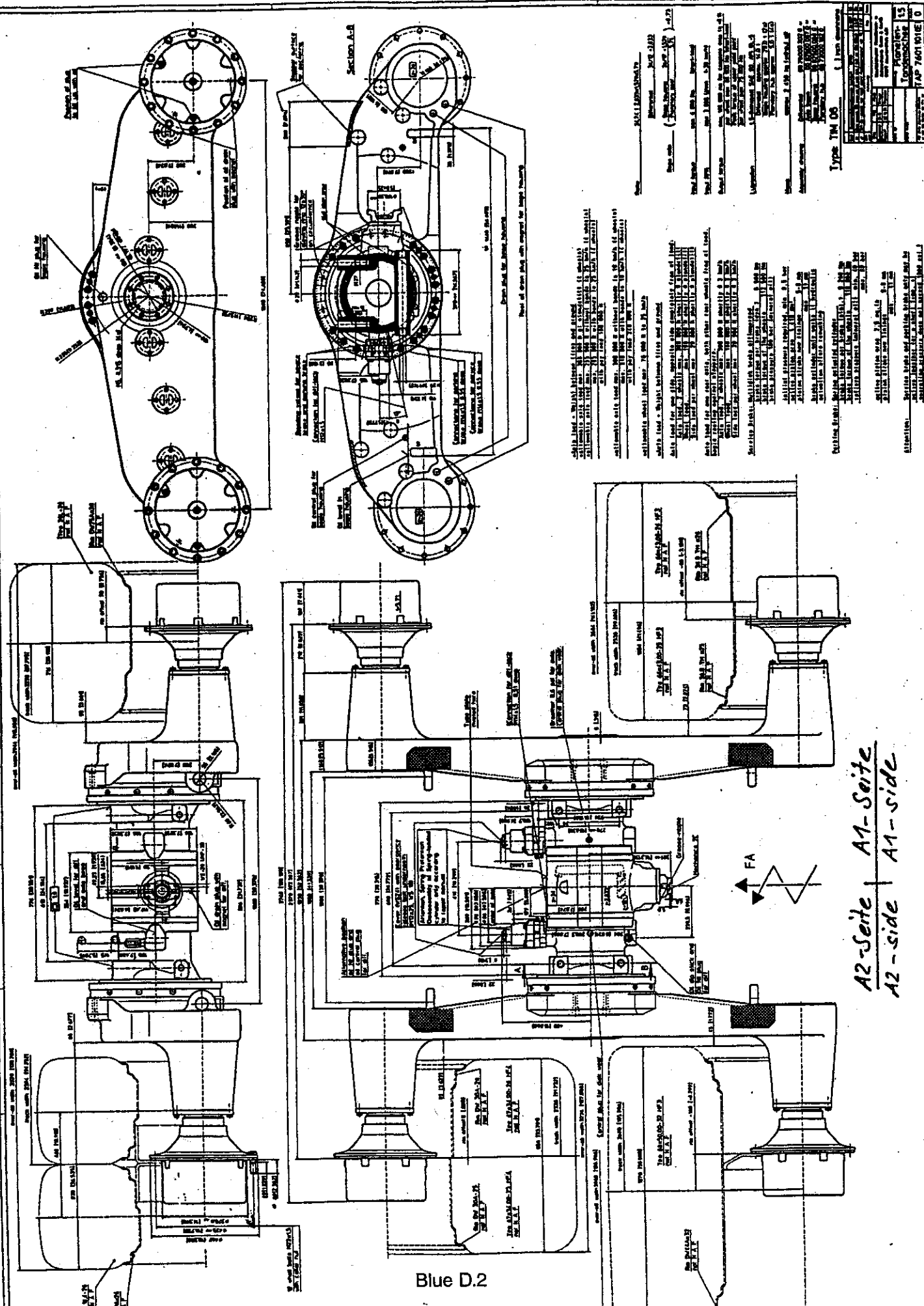
Indicate at order:

Vehicle type, manufacturer
NAF-Type, factory .-No.
Part description, part number
Desired qty
Exact shipping adress, method of shipment

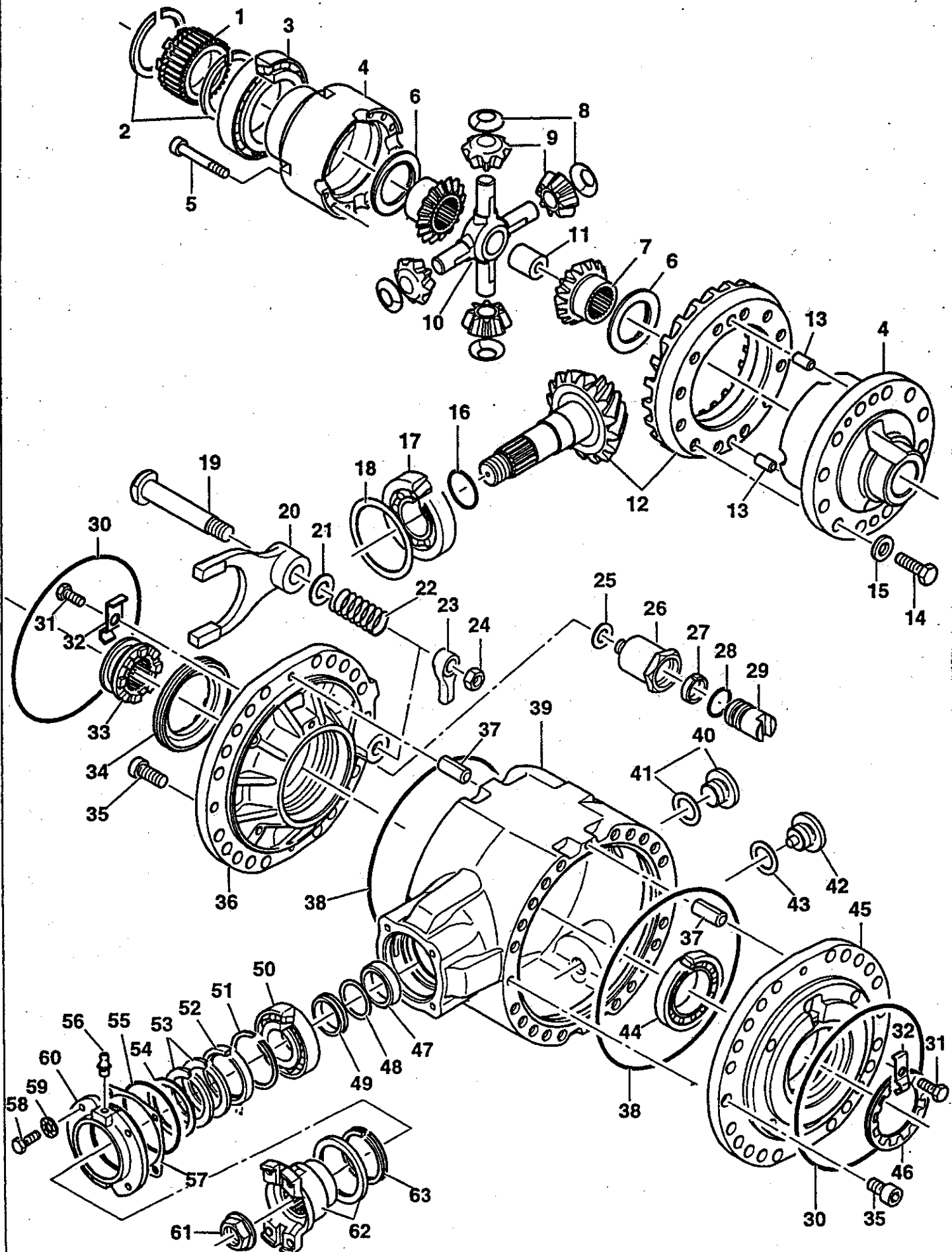
Neunkirchener Maschinen- und
Achsenfabrik GmbH & Co. KG

Industriestraße 17
91077 Neunkirchen a.B.

Phon: (09134) 702 0
Fax: (09134) 99 73 10



A2-Seite | A1-Seite
A2-side | A1-side



Spare parts list

Description: Differential
Drawing No: 10.100.000.A
List No: 10.137.000.01
Date of creation: 1/15/98

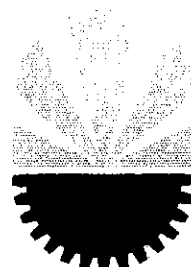


NAF

Pos.	Part number	Part description	Qty.	Remarks	DIN
—	—	Differential complete	1		
1	9813.103	Clutch-coupling sleeve	1		
2	1220.311	Spring ring	2	SW 85	
3	1110.175	Tapered-roller bearing	1	37431A/37625, TIMKEN	
4	2102.122	Differential cage	1		
5	1020.335	Allen screw	12	M12x85, 8.8 VP n.TI-58	912
6	7316.067	Check disk	2	th.= 1,5/1,7/2,0/2,2	
⑦	7513.046	Differential gear	2		
8	7518.022	Thrust washer	4		
9	7514.030	Planetary gear	4		
10	7515.028	Cross bolt	1		
11	2108.035	Adjusting bolt package	1	L=37 - 42 step 0,5	
11	9565.041	Adjusting bolt	n/a	L=37	
11	9565.042	Adjusting bolt	n/a	L=37,5	
11	9565.043	Adjusting bolt	n/a	L=38	
11	9565.044	Adjusting bolt	n/a	L=38,5	
11	9565.045	Adjusting bolt	n/a	L=39	
11	9565.046	Adjusting bolt	n/a	L=39,5	
11	9565.047	Adjusting bolt	n/a	L=40	
11	9565.048	Adjusting bolt	n/a	L=40,5	
11	9565.049	Adjusting bolt	n/a	L=41	
11	9565.050	Adjusting bolt	n/a	L=41,5	
11	9565.051	Adjusting bolt	n/a	L=42	
12	2101.315	Crown wheel / pinion	1	Z=34/12	
13	1200.228	Straight pin	4	16m6x40, Steel hardened	6325
14	7322.066	Screw	16	M16x1.5x40, 10.9 as TI-58/2	933
15	7316.045	Washer	16	16.1x30x4, C45 hardened	1542
16	1170.013	O-ring	1	OR 42x4,5, 72NBR872	
①⑦	1110.114	Tapered-roller bearing	1	H 913 810 / 840	
18	7317.026	Adjusting washer	n/a	th.= 3,5/3,25/3,0/2,75/2,5	
19	9816.039	Shifting rod	1		
20	9809.066	Shift fork	1		
②①	7317.023	Adjusting washer	n/a	th.= 1,5/2,0/2,5/3,0	
22	7331.016	Pressure spring	1		
②③	9809.041	Shifting lever	1		
24	1060.003	Hex. nut	1	M14x1.5, 10	934
②⑤	1170.010	O-ring	1	OR 26x3, 72NBR872	
26	5263.061	Cylinder	1		
27	1180.734	Groove ring	1	D32xD24x5.5, NBR	
28	1180.811	Shaft seal	1	32x24.5x3.2	
29	5252.100	Piston	1		
30	1170.716	O-ring	2	OR 265x4, 72NBR872	
31	1010.129	Hexagon screw	2	M8x16, 10.9 VP as TI-58	933
32	9566.010	Locking plate	2		
33	9813.104	Shifting sleeve	1		

Spare parts list

Description: Differential
 Drawing No: 10.100.000.A
 List No: 10.137.000.01
 Date of creation: 1/15/98



NAF

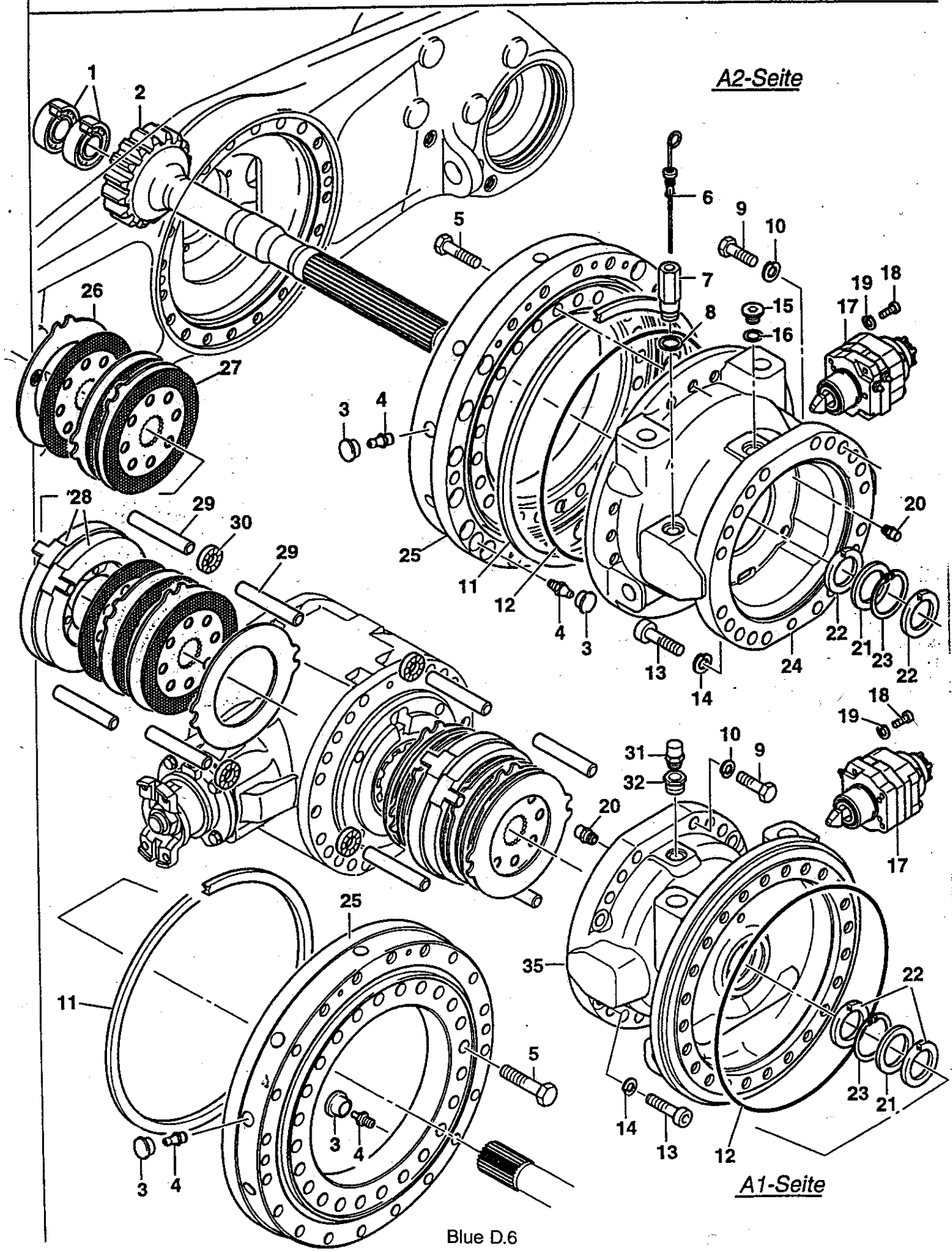
Pos.	Part number	Part description	Qty.	Remarks	DIN
34	7329.012	Nut	1	M158x1.5	
35	1020.212	Allen screw	4	M10x20, 8.8	912
36	7527.140	Flange	1		
37	1200.481	Adapter sleeve	2	12x50, Springsteel	1481
38	1170.702	O-ring	2	OR 297x4, 72NBR872	
39	7506.203	Differential housing	1		
40	1040.103	Screw plug	1	M30x1.5, 8.8	908
41	1180.507	Seal ring	1	A30x36x2, CU	7603
42	9556.021	Screw plug	1	M20x1.5, with magnet	908
43	1180.502	Seal ring	1	A20x24x1.5, CU	7603
44	1110.007	Tapered-roller bearing	1	320 17x	
45	7527.139	Flange	1		
46	7329.082	Nut	1	M128x1.5	
47	7311.070	Spacer bush	1		
48	7317.037	Adjusting washer	1	th. = 0,96 - 1,44 step 0,04	
49	7311.071	Spacer bush	n/a	L=12,26	
49	7311.062	Spacer bush	n/a	L=11,3	
49	7311.063	Spacer bush	n/a	L=11,78	
50	1110.186	Tapered-roller bearing	1	72 200 C/72 487, TIMKEN	
51	1220.932	Spring ring	1	SB 102	
52	7308.054	Radial seal	1	76.25x101.64x11	
53	7308.055	Seal ring	2	76.25x101.64x7	
54	7315.110	Washer	1		
55	1170.534	O-ring	1	OR 120x3, 72NBR872	
56	1250.103	Taper grease nipple	1	AM 10x1	71412
57	7319.091	Gasket	1	0.5 thick, AFM 38	
58	1010.201	Hexagon screw	4	M10x25, 10.9	933
59	1190.011	Locking clip	4	10, ST	
60	7301.077	Cover	1		
61	7329.057	Nut	1	M40x1.5	267
62	2107.164	Drive shaft flange / Washer	1		
63	1180.125	V-ring	1	V-80 A	



A2-Seite

A1-Seite

7276-001/082



Spare parts list

Description: Axle beam
Drawing No: 30.109.000.A
List No: 30.157.000.01
Date of creation: 1/15/98



NAF

Pos.	Part number	Part description	Qty.	Remarks	DIN
—	—	Axle beam complete	1	A1-Side	
1	1130.067	Cylinder roller bearing	2	45x85x23, SL182209C3 INA	
2	7818.098	Sun gear shaft	1	Z = 17	
3	1750.710	Plug	10	D25	
4	1250.104	Taper grease nipple	10	AM8x1, 5.8	71412
5	1010.669	Hexagon screw	24	M20x2x90, 10.9 VP as TI-58	960
6	—				
7	—				
8	—				
9	1010.668	Hexagon screw	16	M20x2x90, 10.9	960
10	1190.014	Locking clip	16	VSK 20, Springsteel DACROM	
11	7308.050	Scraper ring	1	D450xD480x13, PU, 85 SHORE	
12	1170.726	O-ring	1	OR 415x5, 72NBR872	
13	1020.620	Allen screw	4	M20x2x90, 10.9	912
14	1190.014	Locking clip	4	VSK 20, Springsteel DACROM	
15	—				
16	—				
17	5350.016	Spring loaded cylinder	1		
18	1020.260	Allen screw	3	M10x30, 10.9 VP as TI-58	912
19	1190.031	Locking clip	3	VSKZ 10, Springsteel DACROM	
20	1250.002	Breather	1	M10x1 tapered	
21	7315.086	Washer	1		
22	1160.236	Oil seal	2	60x80x10, BA	
23	1220.712	Seeger-ring	1	80x2.5	472
24	—				
25	7305.033	Turning-ring coupling	1		
26	7344.036	Intermediate disk	6		
27	7345.036	Coated disk	6		
28	5504.002	Operating disk	1		
29	1200.297	Straight pin	4	20m6x140, ST hardened	6325
30	1190.211	Toothed ring	2	ZA 20	
31	9556.030	Breather	1	R1/2", 0,3 bar	
32	1750.705	Reducing nipple	1	R3/4xR1/2 ", galvanized	
33	—				
34	—				
35	7276.081	Axle housing	1		

Spare parts list

Description: Axle beam
Drawing No: 30.109.000.A
List No: 30.158.000.01
Date of creation: 1/15/98



NAF

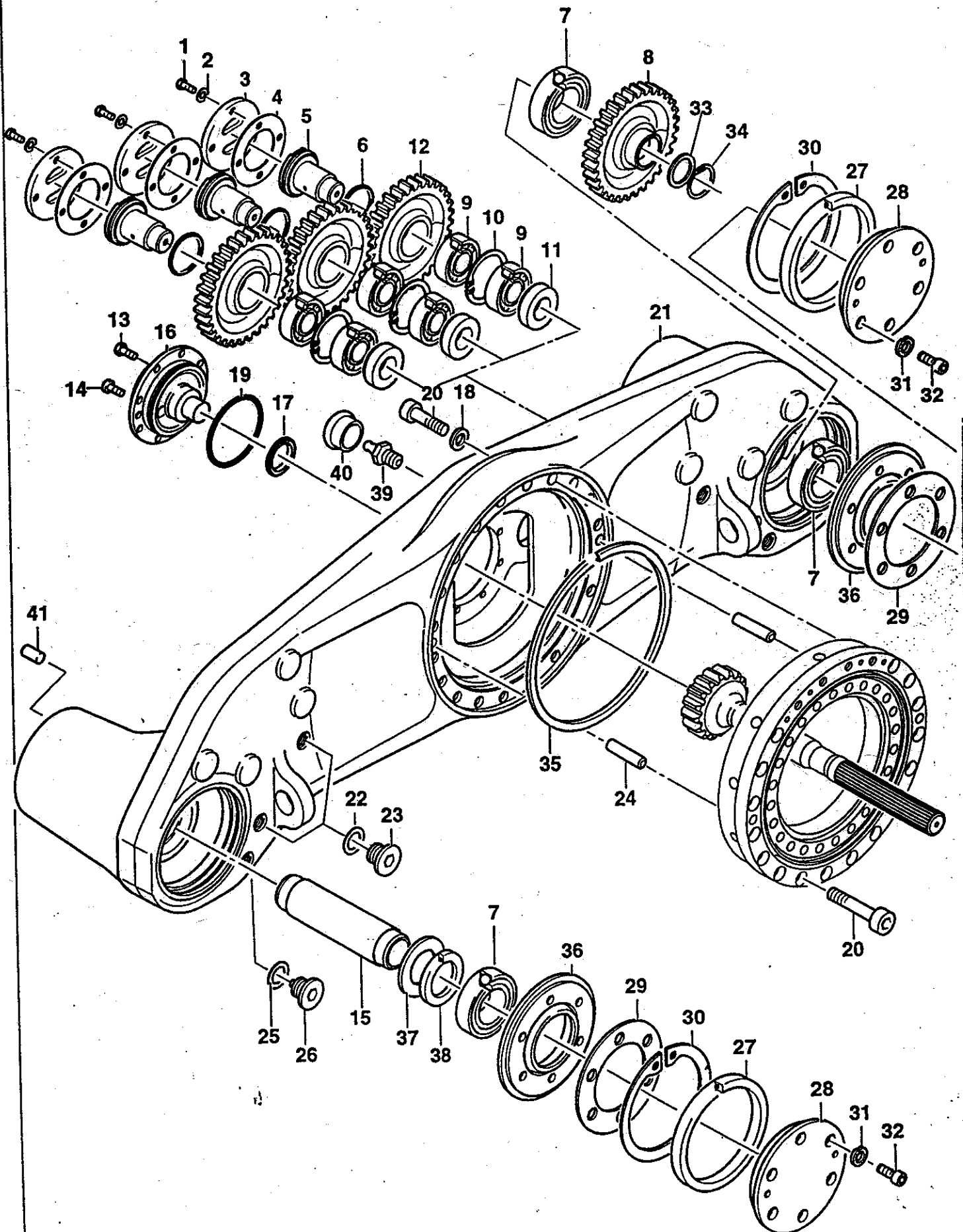
Pos.	Part number	Part description	Qty.	Remarks	DIN
—	—	Axle beam complete	1	A2-Side	
1	1130.067	Cylinder roller bearing	2	45x85x23, SL182209C3 INA	
2	7818.098	Sun gear shaft	1	Z = 17	
3	1750.710	Plug	10	D25	
4	1250.104	Taper grease nipple	10	AM8x1, 5.8	71412
5	1010.669	Hexagon screw	24	M20x2x90, 10.9 VP as TI-58	960
6	7325.026	Dipstick	1	L = 125	
7	7322.074	Threaded stud	1		
8	1180.541	Seal ring	1	A27x32x2, CU	7603
9	1010.668	Hexagon screw	16	M20x2x90, 10.9	960
10	1190.014	Locking clip	16	VSK 20, Springsteel DACROM	
11	7308.050	Scraper ring	1	D450xD480x13, PU, 85 SHORE	
12	1170.726	O-ring	1	OR 415x5, 72NBR872	
13	1020.620	Allen screw	4	M20x2x90, 10.9	912
14	1190.014	Locking clip	4	VSK 20, Springsteel DACROM	
15	1040.151	Screw plug	1	G 3/4 ", 8.8	908
16	1180.541	Seal ring	1	A27x32x2, CU	7603
17	5350.016	Spring loaded cylinder	1		
18	1020.260	Allen screw	3	M10x30, 10.9 VP as TI-58	912
19	1190.031	Locking clip	3	VSKZ 10, Springsteel DACROM	
20	1250.002	Breather	1	M10x1 tapered	
21	7315.086	Washer	1		
22	1160.236	Oil seal	2	60x80x10, BA	
23	1220.712	Seeger-ring	1	80x2.5	472
24	7276.082	Axle housing	1		
25	7305.033	Turning-ring coupling	1		
26	7344.036	Intermediate disk	6		
27	7345.036	Coated disk	6		
28	5504.002	Operating disk	1		
29	1200.297	Straight pin	4	20m6x140, Steel hardened	6325
30	1190.211	Toothed ring	2	ZA 20	
31	—				
32	—				
33	—				
34	—				
35	—				

Bildnummer: 50.024.000.A

Bezeichnung: Tandemachsträger



890-012



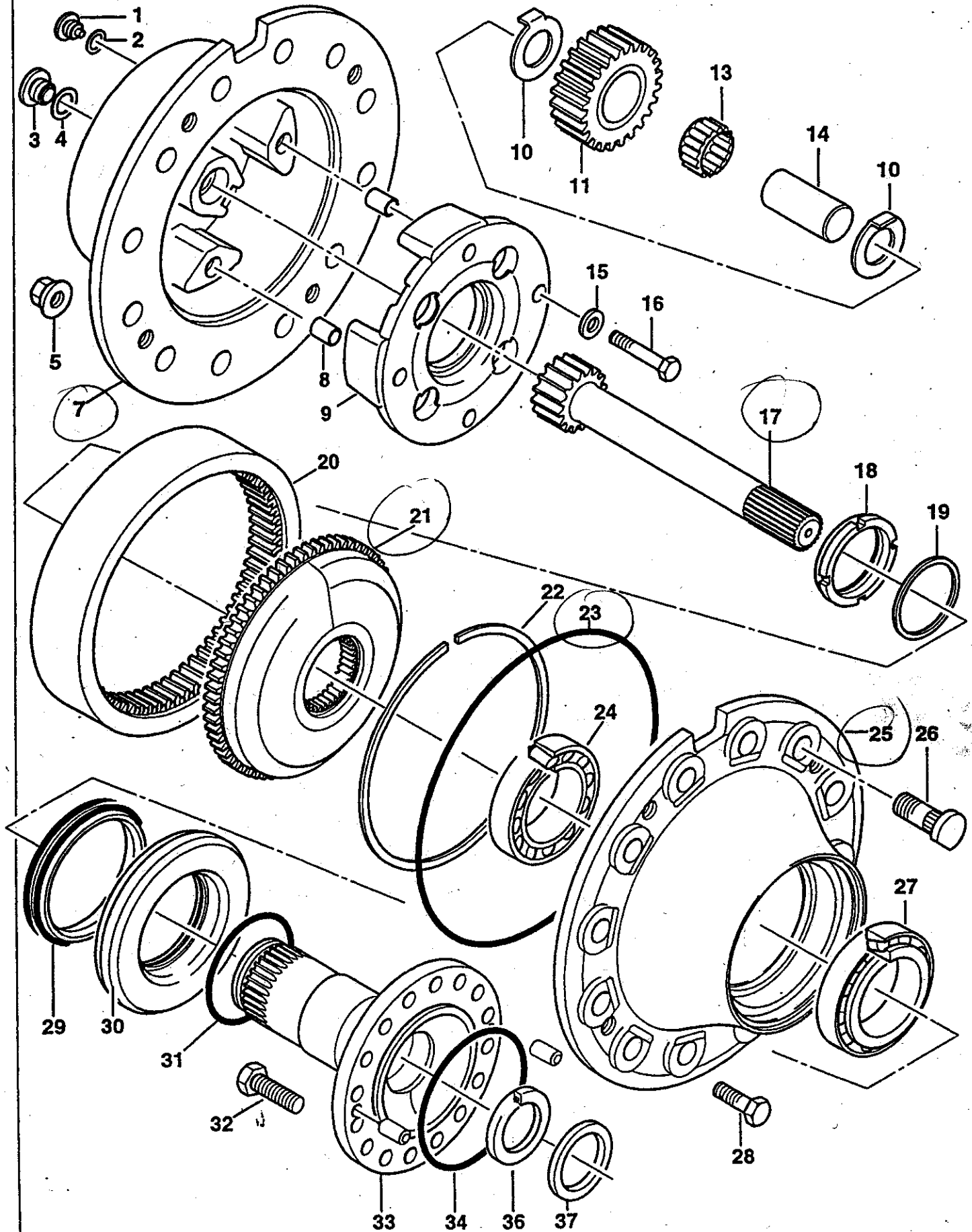
Spare parts list

Description: Tandem axle beam
Drawing No: 50.024.000.A
List No: 50.036.000.01
Date of creation: 1/15/98



NAF

Pos.	Part number	Part description	Qty.	Remarks	DIN
—	—	Tandem axle beam complete	2		
1	1010.233	Hexagon screw	48	M10x20, 10.9 VP as TI-58	933
2	7316.048	Washer	48	10.1x21x2, C45 hardened	1541
3	7302.011	Cover	12		1541
4	7319.041	Gasket	12	2.0 thick, AFM31	
5	7321.050	Stud	12		
6	1170.286	O-ring	12	OR 62x4, 72NBR872	
7	1120.107	Grooved ball bearing	8	6215-2RSR C3	
8	9804.352	Gear	4	Z = 26	
9	1130.057	Cylinder roller bearing	24	SL 18 2210 C3	
10	1220.702	Seeger-ring	12	90x3	472
11	7311.089	Spacer bush	12		
12	9804.356	Gear	12	Z = 32	
13	1010.234	Hexagon screw	16	M10x25, 10.9 VP as TI-58	933
14	1020.113	Allen screw	4	M8x16, 8.8 VP as TI-58	912
15	7343.030	Pipe	4		
16	7321.063	Bearing stud	2		
17	1180.841	Axial shaft seal ring	2	76x106x6.5	
18	7316.044	Washer	8	D30x4, C45 hardened	1542
19	1170.601	O-ring	2	OR 152x4, 72NBR872	
20	1020.619	Allen screw	48	M18x2x85, 10.9 VP as TI-58	912
21	7277.040	Tandem axle beam	2		
22	1180.507	Seal ring	10	A30x36x2, CU	7603
23	1040.103	Screw plug	10	M30x1.5, 8.8	908
24	1200.206	Straight pin	4	16m6x70, Steel hardened	6325
25	1180.507	Seal ring	4	A30x36x2, CU	7603
26	7323.013	Screw plug	4	M30x1.5, 5.8 with magnet	
27	7308.051	Seal ring	4	AS220x250x15	3760
28	7302.034	Cover	4		
29	7319.087	Gasket	4	0.5 thick, AFM38	
30	1220.837	Seeger-ring	4	J250x5	472
31	1190.015	Locking clip	24	VSK 10, Springsteel DACROM	
32	1020.212	Allen screw	24	M10x20, 8.8	912
33	1210.110	Supporting washer	4	SS 45x55x3	
34	1220.714	Seeger-ring	4	55x2	472
35	7308.040	Seal ring	2	A450x480x12	3760
36	7301.070	Cover	4		
37	7315.106	Washer	4		
38	1160.243	Oil seal	4	65x100x12 BA	
39	1250.104	Taper grease nipple	4	AM 8x1, 5.8	71412
40	1750.710	Plug	4	D25	
41	1200.286	Straight pin	8	16m6x32, Steel hardened	6325



200-112

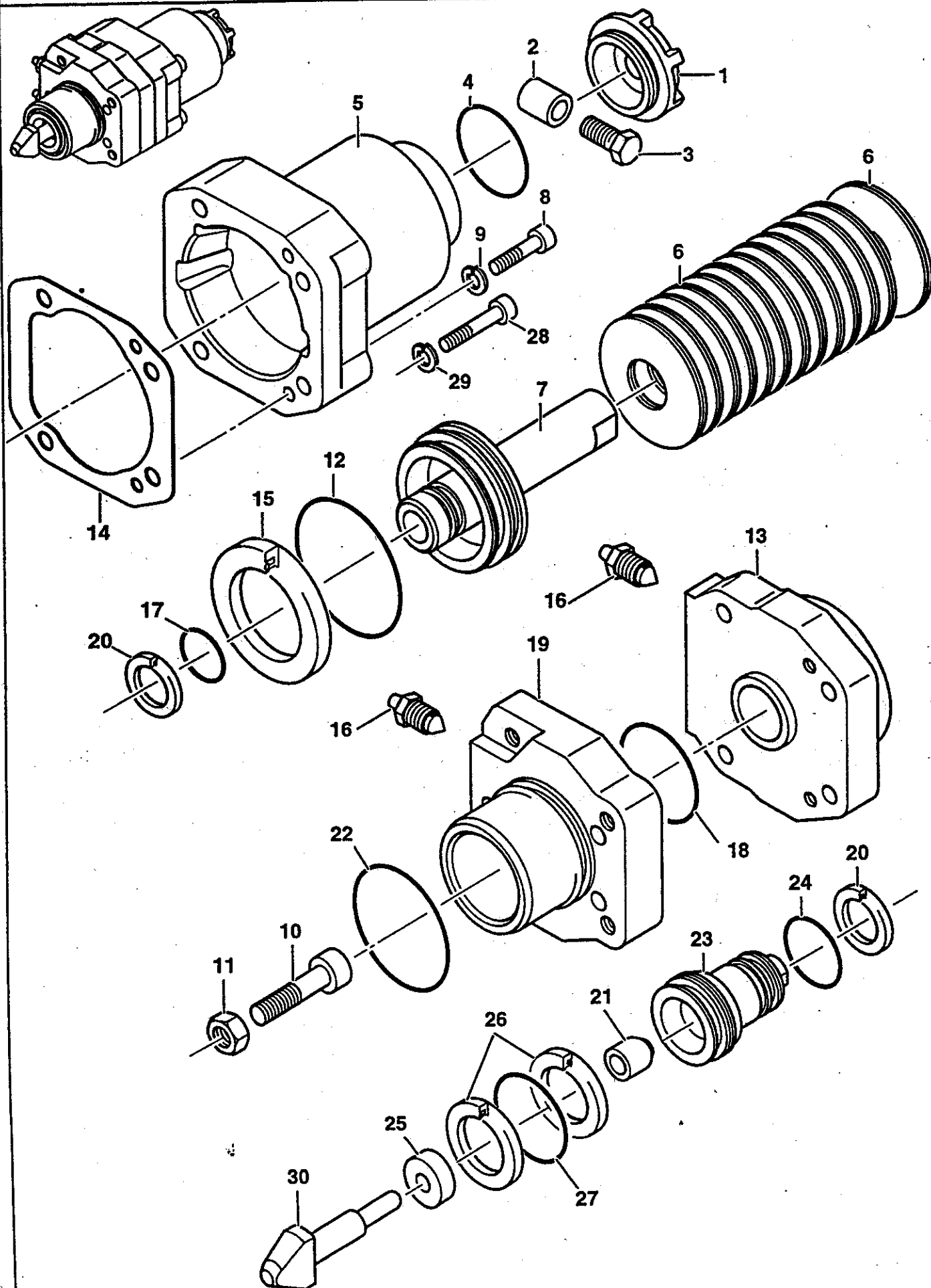
Spare parts list

Description: Outer component
 Drawing No: 20.086.000.A
 List No: 20.102.000.01
 Date of creation: 1/15/98



NAF

Pos.	Part number	Part description	Qty.	Remarks	DIN
—	—	Outer component complete	1		
1	9556.021	Screw plug	2	M20x1.5, with magnet	908
2	1180.502	Seal ring	2	A20x24x1.5, CU	7603
3	7323.016	Screw plug	1	M30X1.5, 5.8 adhesive coated	
4	2108.017	Washer package	1	th.= 2,5 / 1,0	
4	1210.113	Supporting washer	n/a	th.= 2,5	
4	1210.295	Seeger washer	n/a	th.=1,0	
5	1060.408	Nut with turnable washer	12	M22x1.5, KI.10 - A3C	74361
6	—				
7	7821.178	Planetary cage	1		
8	7313.018	Shear bushing	4		
9	7821.179	Planetary cage	1		
10	9633.010	Check disk	8		
11	7806.060	Planetary gear	4	Z = 25	
12	—				
13	1130.280	Needle roller cages	4	K45X60X45FH	
14	7807.056	Planetary stud	4		
15	7316.045	Washer	4	16.1x30x4	
16	1010.536	Hexagon screw	4	M16x90, 10.9 VP as Ti-58	931
17	7818.086	Sun gear shaft	1	Z = 14	
18	7329.073	Nut	1	M85x2	
19	7317.047	Adjusting washer	n/a	th.= 2,5/2,375/2,25/2,125/2,0/ 1,875/1,75/1,625/1,5/1,375	
20	7801.042	Gear rim	1	Z = 66	
21	7804.044	Ring gear carrier	1	Z = 66	
22	1220.913	Spring ring	1	SB 310	
23	1170.755	O-ring	1	OR 345x5, 72NBR872	
24	1110.189	Tapered-roller bearing	1	330 22	
25	7828.096	Wheel hub	1		
26	7133.018	Wheel bolt	12		
27	1110.090	Tapered-roller bearing	1	320 24X	
28	1010.301	Hexagon screw	4	M12x30, 10.9	933
29	1180.325	Slide ring sealing	1	7690 H-56	
30	7306.032	Axle stub ring	1		
31	1170.547	O-ring	1	OR 120x4	
32	7322.069	Hexagon screw	16	M16x40, 10.9 VP as Ti-58/2	933
33	7814.182	Stub axle	1		
34	1170.553	O-ring	1	OR 150x5, 72NBR872	
35	—				
36	1160.244	Oil seal	1	65x75x8 BASL	
37	7315.107	Washer	1		



Spare parts list

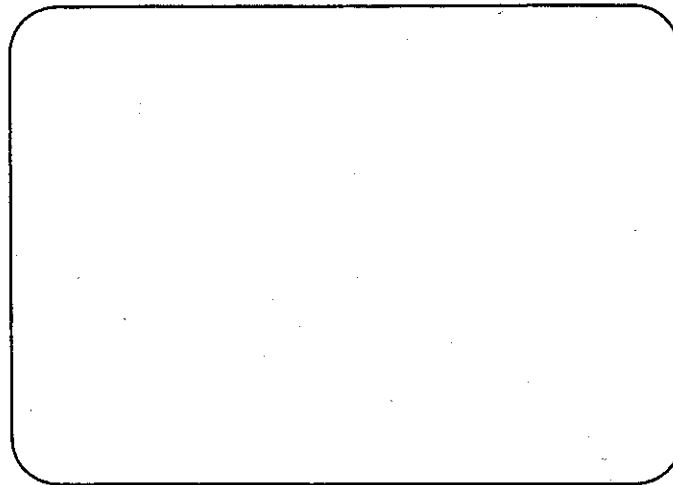
Description: Spring loaded cylinder
 Drawing No: 516-350
 List No: Z 36
 Date of creation: 23.05.96

NAF



Pos.	Part number	Part description	Qty.	Remark	DIN
---	5350.016	Spring loaded cylinder. Compl	1	KMF 731.501.000.000 without Pos.30	
1	5266.012	Screw Plug	1	M50x1,5	
2	5254.017	Protective cap	1		
3	1010.316	Hex bolt	1	M12x25 8.8	933
4	1170.095	O-ring	1	40x5 72 NBR 872	
5	5275.002	Housing	1		
6	1250.237	Plate spring	26	80x31x2,5 Nr. 920 197 01 Fa.Bauer	
7	5252.095	Piston	1		
8	1020.153	Allen screw	2	M8x60 10.9	912
9	1190.105	Spring washer	2	8 St	7980
10	1020.211	Allen screw	1	M10x40 8.8	912
11	1060.115	Hex nut	1	AM10 10	439
12	1180.795	Guide ring	1	80x85x5,6 GP 6500 850-C380 Fa.BuS	
13	5263.060	Cylinder (upper part)	1		
14	7319.068	Gasket	1	0,5 AFM 38	
15	1180.792	Piston seal	1	85x73x8,5 C2 8045 N3584 Fa.Parker	
16	1250.598	Breather valve	2	M14x1,5 FAG MR0080	
17	1180.794	Guide ring	1	30x35x5,6 GR 6500 300-C 380 Fa.BuS	
18	1170.292	O-ring	1	55x5 72 NBR 872	
19	5263.059	Cylinder (lower part)	1		
20	1180.791	Piston seal	2	35x25x7 C2 3050 N 3584 Fa.Parker	
21	5214.002	Stud	1		
22	1170.240	O-ring	1	60x4 72 NBR 872	
23	5252.093	Compression stud	1		
24	1180.794	Guide ring	1	30x35x5,6 GR 6500 300-C 380 Fa.BuS	
25	5265.026	Ring	1		
26	1180.790	Piston seal	2	55x45x7 C2 5045 N 3584 Fa.Parker	
27	1180.793	Guide ring	1	50x55x5,6 GP 6500 550-C380 Fa.BuS	
28	1020.257	Allen screw	4	M10x80 10.9	912
29	1190.116	Spring washer	4	10 St	7980
30	7835.001	Wedge	1	Order separately, please	

Blue - E



Vendor Component Info Packet -

***NAF
Rear Tandem Bogie Axle
PN# 19769***

Spare parts list

Type: TIM 06/0
Description: Bogie axle
Valid ex factory .-No.: 11
Date of creation: 1/15/98



NAF

Contents:

Description	List	Drawing	Page
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Axle beam A2 side	30.158.000.01	"	7-8
Tandem axle beam	50.036.000.01	50.024.000.A	9-10
Outer component	20.102.000.01	20.086.000.A	11-12
Spring loaded cylinder	Z 036	516-350	13-14

Important!

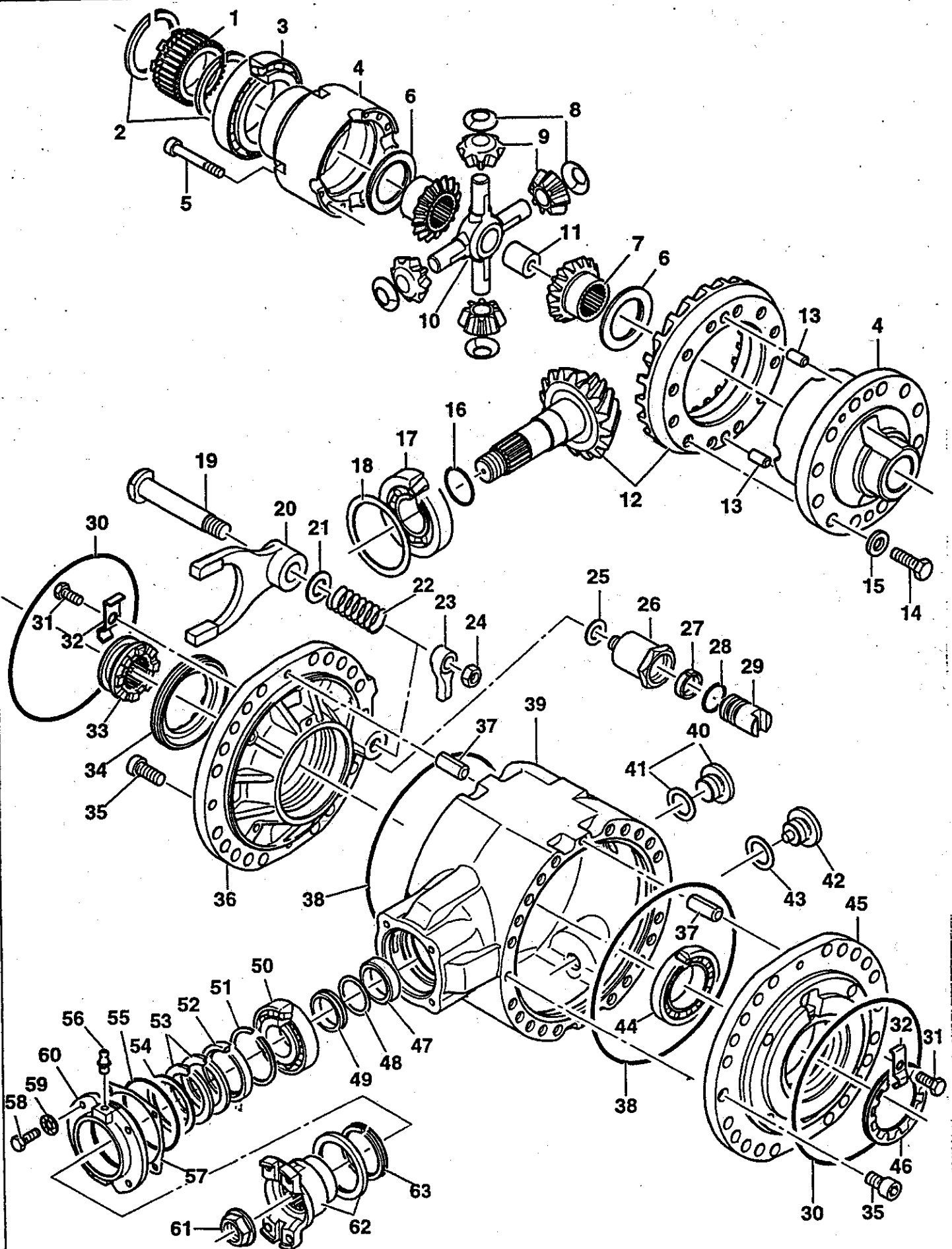
Indicate at order:

Vehicle type, manufacturer
NAF-Type, factory .-No.
Part description, part number
Desired qty
Exact shipping adress, method of shipment

Neunkirchener Maschinen- und
Achsenfabrik GmbH & Co. KG

Industriestraße 17
91077 Neunkirchen a.B.

Phon: (09134) 702 0
Fax: (09134) 99 73 10



Spare parts list

Description: Differential
 Drawing No: 10.100.000.A
 List No: 10.137.000.01
 Date of creation: 1/15/98

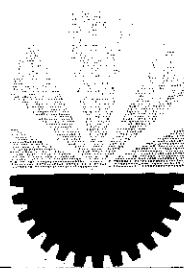


NAF

Pos.	Part number	Part description	Qty.	Remarks	DIN
—	—	Differential complete	1		
1	9813.103	Clutch-coupling sleeve	1		
2	1220.311	Spring ring	2	SW 85	
3	1110.175	Tapered-roller bearing	1	37431A/37625, TIMKEN	
4	2102.122	Differential cage	1		
5	1020.335	Allen screw	12	M12x85, 8.8 VP n.TI-58	912
6	7316.067	Check disk	2	th.= 1,5/1,7/2,0/2,2	
7	7513.046	Differential gear	2		
8	7518.022	Thrust washer	4		
9	7514.030	Planetary gear	4		
10	7515.028	Cross bolt	1		
11	2108.035	Adjusting bolt package	1	L=37 - 42 step 0,5	
11	9565.041	Adjusting bolt	n/a	L=37	
11	9565.042	Adjusting bolt	n/a	L=37,5	
11	9565.043	Adjusting bolt	n/a	L=38	
11	9565.044	Adjusting bolt	n/a	L=38,5	
11	9565.045	Adjusting bolt	n/a	L=39	
11	9565.046	Adjusting bolt	n/a	L=39,5	
11	9565.047	Adjusting bolt	n/a	L=40	
11	9565.048	Adjusting bolt	n/a	L=40,5	
11	9565.049	Adjusting bolt	n/a	L=41	
11	9565.050	Adjusting bolt	n/a	L=41,5	
11	9565.051	Adjusting bolt	n/a	L=42	
12	2101.315	Crown wheel / pinion	1	Z=34/12	
13	1200.228	Straight pin	4	16m6x40, Steel hardened	6325
14	7322.066	Screw	16	M16x1.5x40, 10.9 as TI-58/2	933
15	7316.045	Washer	16	16.1x30x4, C45 hardened	1542
16	1170.013	O-ring	1	OR 42x4.5, 72NBR872	
17	1110.114	Tapered-roller bearing	1	H 913 810 / 840	
18	7317.026	Adjusting washer	n/a	th.= 3,5/3,25/3,0/2,75/2,5	
19	9816.039	Shifting rod	1		
20	9809.066	Shift fork	1		
21	7317.023	Adjusting washer	n/a	th.= 1,5/2,0/2,5/3,0	
22	7331.016	Pressure spring	1		
23	9809.041	Shifting lever	1		
24	1060.003	Hex. nut	1	M14x1.5, 10	934
25	1170.010	O-ring	1	OR 26x3, 72NBR872	
26	5263.061	Cylinder	1		
27	1180.734	Groove ring	1	D32xD24x5.5, NBR	
28	1180.811	Shaft seal	1	32x24.5x3.2	
29	5252.100	Piston	1		
30	1170.716	O-ring	2	OR 265x4, 72NBR872	
31	1010.129	Hexagon screw	2	M8x16, 10.9 VP as TI-58	933
32	9566.010	Locking plate	2		
33	9813.104	Shifting sleeve	1		

Spare parts list

Description: Differential
 Drawing No: 10.100.000.A
 List No: 10.137.000.01
 Date of creation: 1/15/98

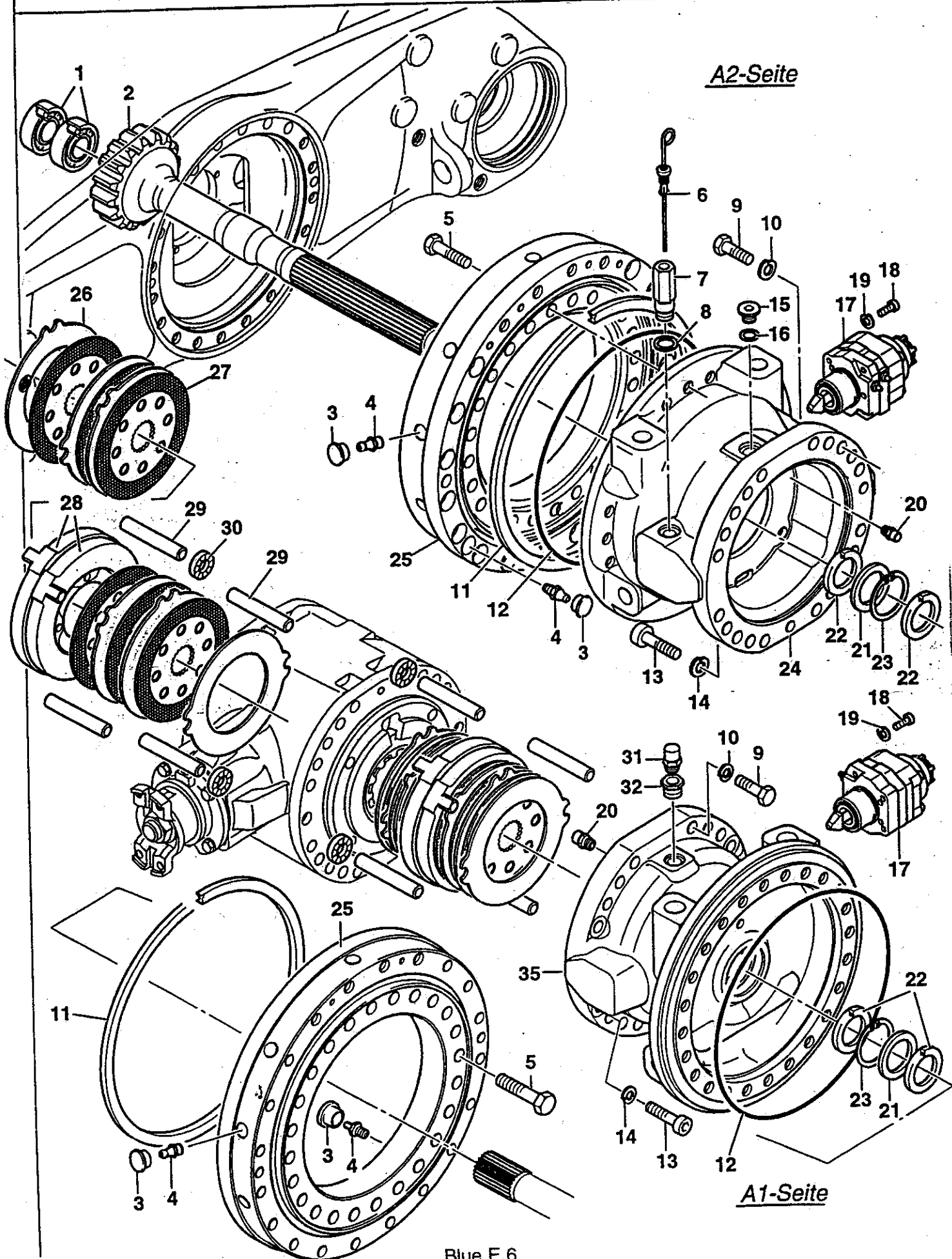


NAF

Pos.	Part number	Part description	Qty.	Remarks	DIN
34	7329.012	Nut	1	M158x1.5	
35	1020.212	Allen screw	4	M10x20, 8.8	912
36	7527.140	Flange	1		
37	1200.481	Adapter sleeve	2	12x50, Springsteel	1481
38	1170.702	O-ring	2	OR 297x4, 72NBR872	
39	7506.203	Differential housing	1		
40	1040.103	Screw plug	1	M30x1.5, 8.8	908
41	1180.507	Seal ring	1	A30x36x2, CU	7603
42	9556.021	Screw plug	1	M20x1.5, with magnet	908
43	1180.502	Seal ring	1	A20x24x1.5, CU	7603
44	1110.007	Tapered-roller bearing	1	320 17x	
45	7527.139	Flange	1		
46	7329.082	Nut	1	M128x1.5	
47	7311.070	Spacer bush	1		
48	7317.037	Adjusting washer	1	th.= 0,96 - 1,44 step 0,04	
49	7311.071	Spacer bush	n/a	L=12,26	
49	7311.062	Spacer bush	n/a	L=11,3	
49	7311.063	Spacer bush	n/a	L=11,78	
50	1110.186	Tapered-roller bearing	1	72 200 C/72 487, TIMKEN	
51	1220.932	Spring ring	1	SB 102	
52	7308.054	Radial seal	1	76.25x101.64x11	
53	7308.055	Seal ring	2	76.25x101.64x7	
54	7315.110	Washer	1		
55	1170.534	O-ring	1	OR 120x3, 72NBR872	
56	1250.103	Taper grease nipple	1	AM 10x1	71412
57	7319.091	Gasket	1	0.5 thick, AFM 38	
58	1010.201	Hexagon screw	4	M10x25, 10.9	933
59	1190.011	Locking clip	4	10, ST	
60	7301.077	Cover	1		
61	7329.057	Nut	1	M40x1.5	267
62	2107.164	Drive shaft flange / Washer	1		
63	1180.125	V-ring	1	V-80 A	



A2-Seite



A1-Seite

7201680-9212

Spare parts list

Description: Axle beam
 Drawing No: 30.109.000.A
 List No: 30.157.000.01
 Date of creation: 1/15/98



NAF

Pos.	Part number	Part description	Qty.	Remarks	DIN
—	—	Axle beam complete	1	A1-Side	
1	1130.067	Cylinder roller bearing	2	45x85x23, SL182209C3 INA	
2	7818.098	Sun gear shaft	1	Z = 17	
3	1750.710	Plug	10	D25	
4	1250.104	Taper grease nipple	10	AM8x1, 5.8	71412
5	1010.669	Hexagon screw	24	M20x2x90, 10.9 VP as TI-58	960
6	—				
7	—				
8	—				
9	1010.668	Hexagon screw	16	M20x2x90, 10.9	960
10	1190.014	Locking clip	16	VSK 20, Springsteel DACROM	
11	7308.050	Scraper ring	1	D450xD480x13, PU, 85 SHORE	
12	1170.726	O-ring	1	OR 415x5, 72NBR872	
13	1020.620	Allen screw	4	M20x2x90, 10.9	912
14	1190.014	Locking clip	4	VSK 20, Springsteel DACROM	
15	—				
16	—				
17	5350.016	Spring loaded cylinder	1		
18	1020.260	Allen screw	3	M10x30, 10.9 VP as TI-58	912
19	1190.031	Locking clip	3	VSKZ 10, Springsteel DACROM	
20	1250.002	Breather	1	M10x1 tapered	
21	7315.086	Washer	1		
22	1160.236	Oil seal	2	60x80x10, BA	
23	1220.712	Seeger-ring	1	80x2.5	472
24	—				
25	7305.033	Turning-ring coupling	1		
26	7344.036	Intermediate disk	6		
27	7345.036	Coated disk	6		
28	5504.002	Operating disk	1		
29	1200.297	Straight pin	4	20m6x140, ST hardened	6325
30	1190.211	Toothed ring	2	ZA 20	
31	9556.030	Breather	1	R1/2", 0,3 bar	
32	1750.705	Reducing nipple	1	R3/4xR1/2 ", galvanized	
33	—				
34	—				
35	7276.081	Axle housing	1		

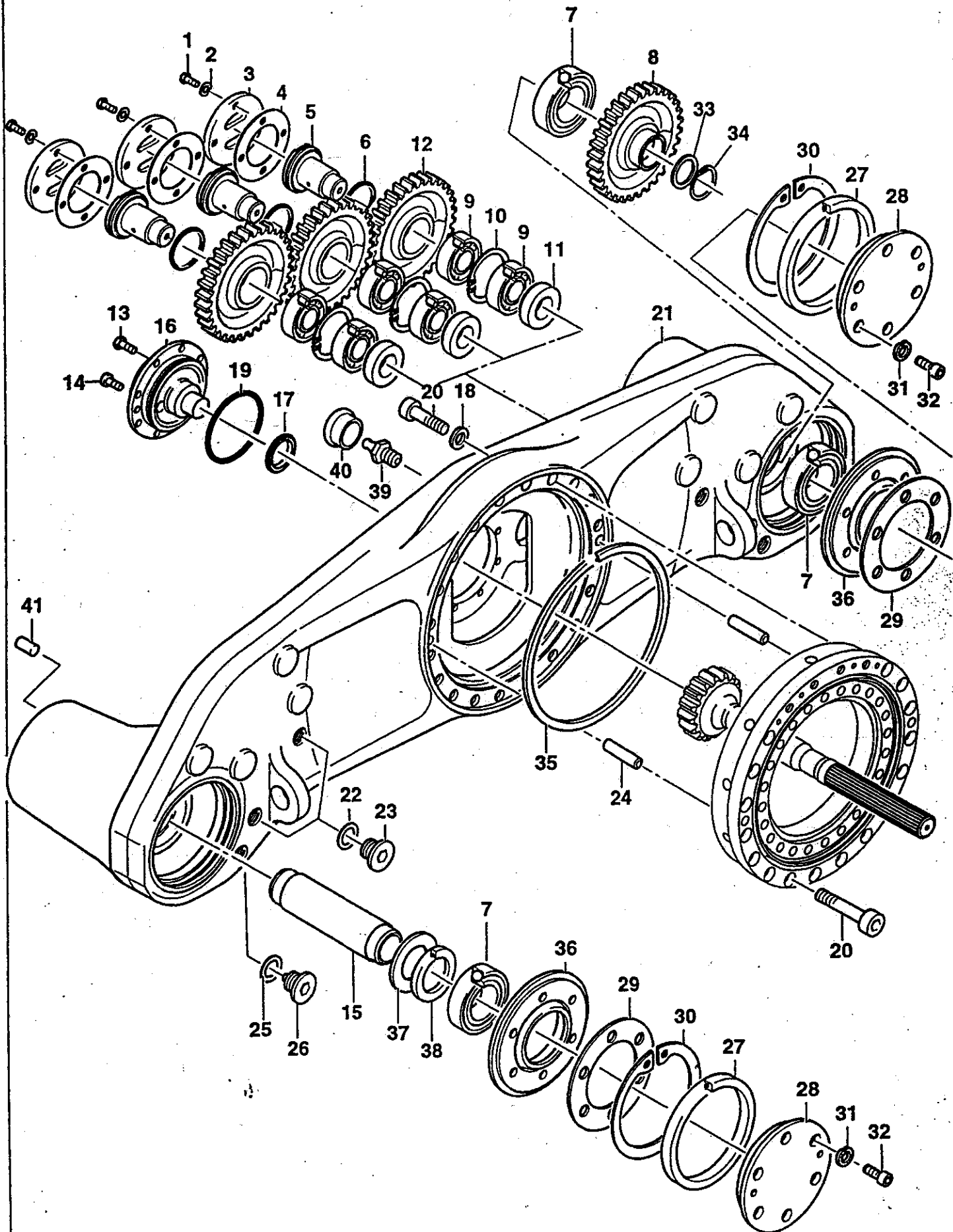
Spare parts list

Description: Axle beam
Drawing No: 30.109.000.A
List No: 30.158.000.01
Date of creation: 1/15/98



NAF

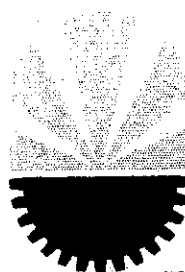
Pos.	Part number	Part description	Qty.	Remarks	DIN
—	—	Axle beam complete	1	A2-Side	
1	1130.067	Cylinder roller bearing	2	45x85x23, SL182209C3 INA	
2	7818.098	Sun gear shaft	1	Z = 17	
3	1750.710	Plug	10	D25	
4	1250.104	Taper grease nipple	10	AM8x1, 5,8	71412
5	1010.669	Hexagon screw	24	M20x2x90, 10.9 VP as TI-58	960
6	7325.026	Dipstick	1	L = 125	
7	7322.074	Threaded stud	1		
8	1180.541	Seal ring	1	A27x32x2, CU	7603
9	1010.668	Hexagon screw	16	M20x2x90, 10.9	960
10	1190.014	Locking clip	16	VSK 20, Springsteel DACROM	
11	7308.050	Scraper ring	1	D450xD480x13, PU, 85 SHORE	
12	1170.726	O-ring	1	OR 415x5, 72NBR872	
13	1020.620	Allen screw	4	M20x2x90, 10.9	912
14	1190.014	Locking clip	4	VSK 20, Springsteel DACROM	
15	1040.151	Screw plug	1	G 3/4 ", 8.8	908
16	1180.541	Seal ring	1	A27x32x2, CU	7603
17	5350.016	Spring loaded cylinder	1		
18	1020.260	Allen screw	3	M10x30, 10.9 VP as TI-58	912
19	1190.031	Locking clip	3	VSKZ 10, Springsteel DACROM	
20	1250.002	Breather	1	M10x1 tapered	
21	7315.086	Washer	1		
22	1160.236	Oil seal	2	60x80x10, BA	
23	1220.712	Seeger-ring	1	80x2.5	472
24	7276.082	Axle housing	1		
25	7305.033	Turning-ring coupling	1		
26	7344.036	Intermediate disk	6		
27	7345.036	Coated disk	6		
28	5504.002	Operating disk	1		
29	1200.297	Straight pin	4	20m6x140, Steel hardened	6325
30	1190.211	Toothed ring	2	ZA 20	
31	—				
32	—				
33	—				
34	—				
35	—				



210-068

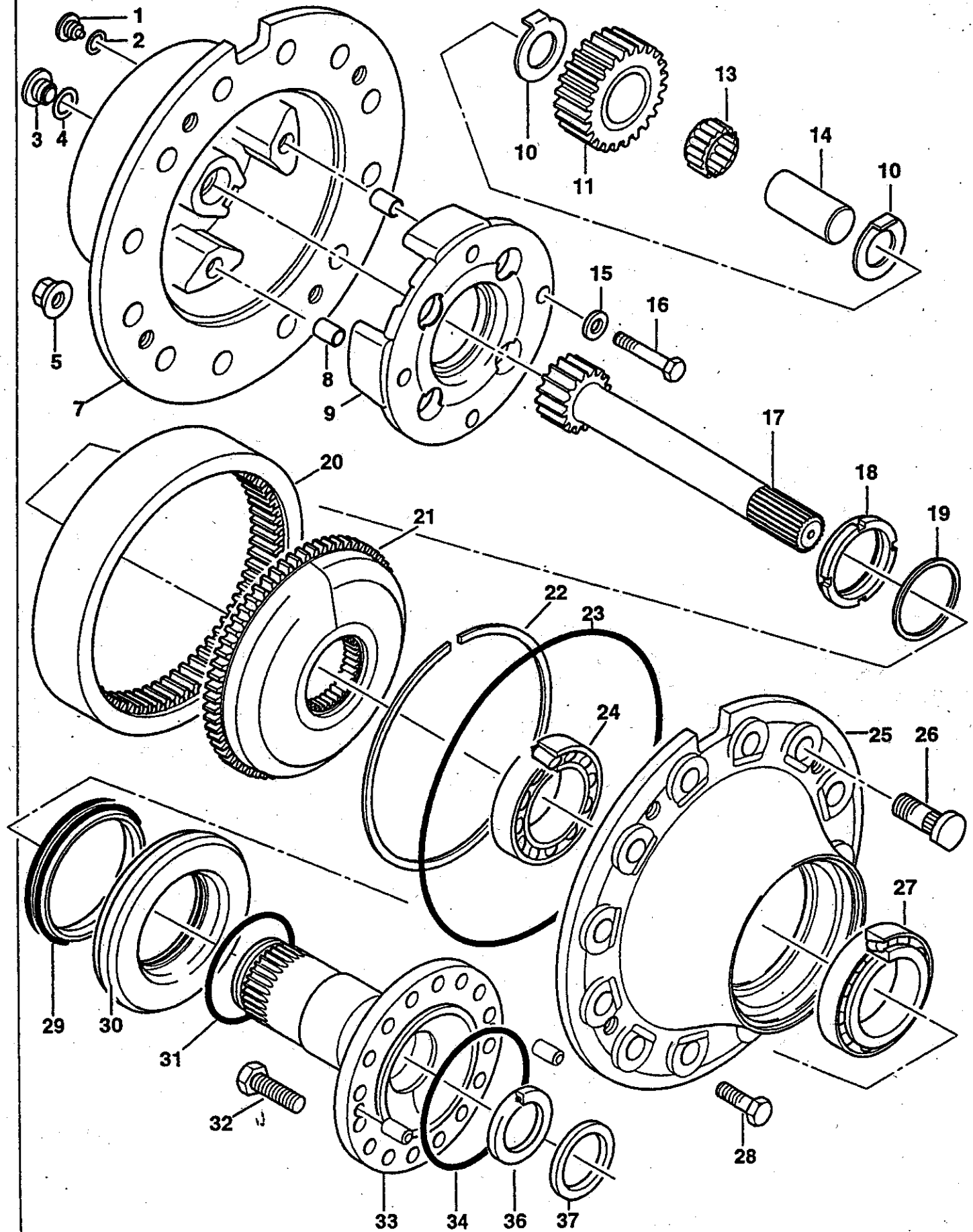
Spare parts list

Description: Tandem axle beam
 Drawing No: 50.024.000.A
 List No: 50.036.000.01
 Date of creation: 1/15/98



NAF

Pos.	Part number	Part description	Qty.	Remarks	DIN
—	—	Tandem axle beam complete	2		
1	1010.233	Hexagon screw	48	M10x20, 10.9 VP as TI-58	933
2	7316.048	Washer	48	10.1x21x2, C45 hardened	1541
3	7302.011	Cover	12		1541
4	7319.041	Gasket	12	2.0 thick, AFM31	
5	7321.050	Stud	12		
6	1170.286	O-ring	12	OR 62x4, 72NBR872	
7	1120.107	Grooved ball bearing	8	6215-2RSR C3	
8	9804.352	Gear	4	Z = 26	
9	1130.057	Cylinder roller bearing	24	SL 18 2210 C3	
10	1220.702	Seeger-ring	12	90x3	472
11	7311.089	Spacer bush	12		
12	9804.356	Gear	12	Z = 32	
13	1010.234	Hexagon screw	16	M10x25, 10.9 VP as TI-58	933
14	1020.113	Allen screw	4	M8x16, 8.8 VP as TI-58	912
15	7343.030	Pipe	4		
16	7321.063	Bearing stud	2		
17	1180.841	Axial shaft seal ring	2	76x106x6.5	
18	7316.044	Washer	8	D30x4, C45 hardened	1542
19	1170.601	O-ring	2	OR 152x4, 72NBR872	
20	1020.619	Allen screw	48	M18x2x85, 10.9 VP as TI-58	912
21	7277.040	Tandem axle beam	2		
22	1180.507	Seal ring	10	A30x36x2, CU	7603
23	1040.103	Screw plug	10	M30x1.5, 8.8	908
24	1200.206	Straight pin	4	16m6x70, Steel hardened	6325
25	1180.507	Seal ring	4	A30x36x2, CU	7603
26	7323.013	Screw plug	4	M30x1.5, 5.8 with magnet	
27	7308.051	Seal ring	4	AS220x250x15	3760
28	7302.034	Cover	4		
29	7319.087	Gasket	4	0.5 thick, AFM38	
30	1220.837	Seeger-ring	4	J250x5	472
31	1190.015	Locking clip	24	VSK 10, Springsteel DACROM	
32	1020.212	Allen screw	24	M10x20, 8.8	912
33	1210.110	Supporting washer	4	SS 45x55x3	
34	1220.714	Seeger-ring	4	55x2	472
35	7308.040	Seal ring	2	A450x480x12	3760
36	7301.070	Cover	4		
37	7315.106	Washer	4		
38	1160.243	Oil seal	4	65x100x12 BA	
39	1250.104	Taper grease nipple	4	AM 8x1, 5.8	71412
40	1750.710	Plug	4	D25	
41	1200.286	Straight pin	8	16m6x32, Steel hardened	6325



200-112

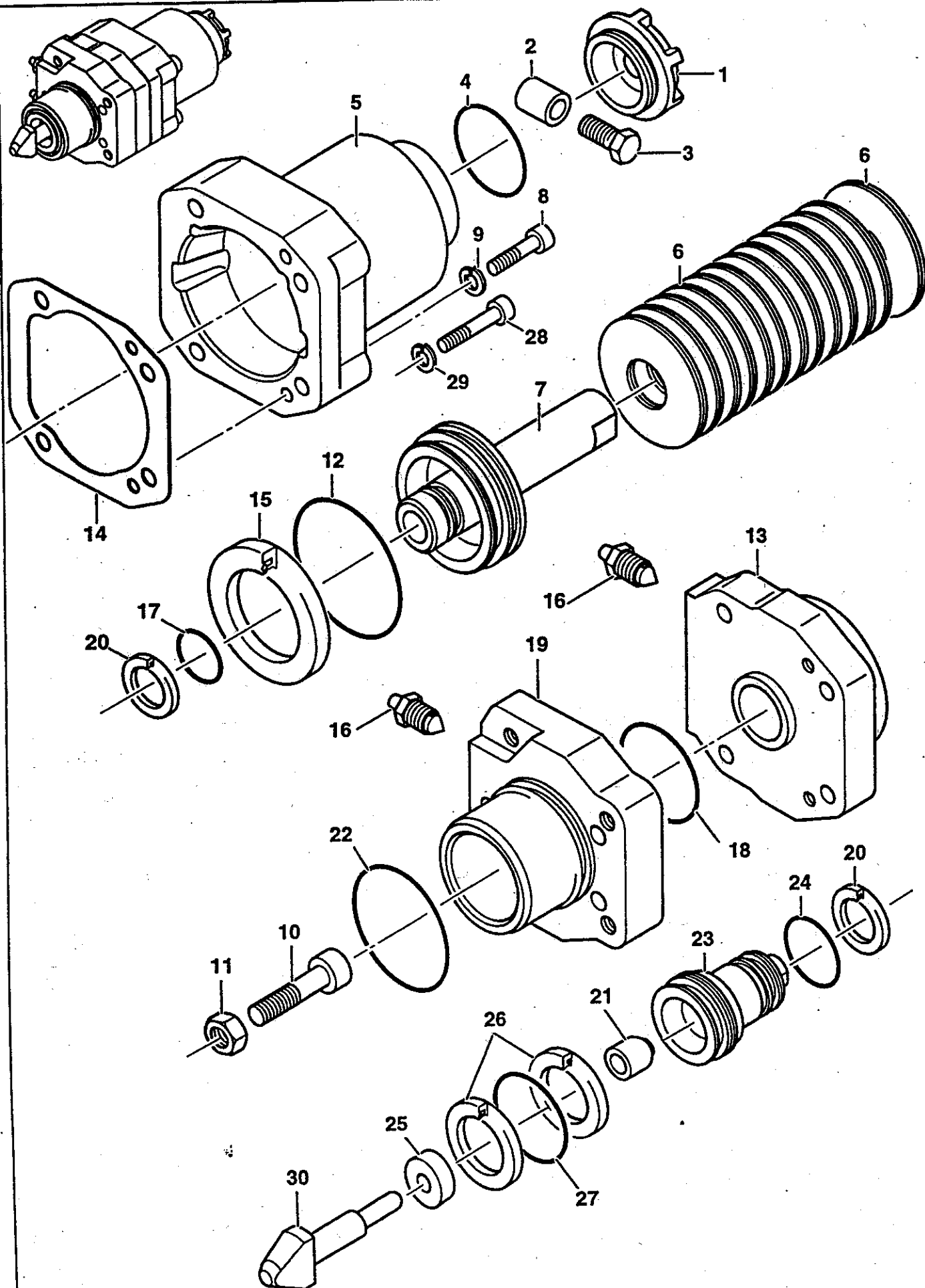
Spare parts list

Description: Outer component
 Drawing No: 20.086.000.A
 List No: 20.102.000.01
 Date of creation: 1/15/98



NAF

Pos.	Part number	Part description	Qty.	Remarks	DIN
—	—	Outer component complete	1		
1	9556.021	Screw plug	2	M20x1.5, with magnet	908
2	1180.502	Seal ring	2	A20x24x1.5, CU	7603
3	7323.016	Screw plug	1	M30x1.5, 5.8 adhesive coated	
4	2108.017	Washer package	1	th.= 2,5 / 1,0	
4	1210.113	Supporting washer	n/a	th.= 2,5	
4	1210.295	Seeger washer	n/a	th.=1,0	
5	1060.408	Nut with turnable washer	12	M22x1.5, KI.10 - A3C	74361
6	—				
7	7821.178	Planetary cage	1		
8	7313.018	Shear bushing	4		
9	7821.179	Planetary cage	1		
10	9633.010	Check disk	8		
11	7806.060	Planetary gear	4	Z = 25	
12	—				
13	1130.280	Needle roller cages	4	K45X60X45FH	
14	7807.056	Planetary stud	4		
15	7316.045	Washer	4	16.1x30x4	
16	1010.536	Hexagon screw	4	M16x90, 10.9 VP as TI-58	931
17	7818.086	Sun gear shaft	1	Z = 14	
18	7329.073	Nut	1	M85x2	
19	7317.047	Adjusting washer	n/a	th.= 2,5/2,375/2,25/2,125/2,0/ 1,875/1,75/1,625/1,5/1,375	
20	7801.042	Gear rim	1	Z = 66	
21	7804.044	Ring gear carrier	1	Z = 66	
22	1220.913	Spring ring	1	SB 310	
23	1170.755	O-ring	1	OR 345x5, 72NBR872	
24	1110.189	Tapered-roller bearing	1	330 22	
25	7828.096	Wheel hub	1		
26	7133.018	Wheel bolt	12		
27	1110.090	Tapered-roller bearing	1	320 24X	
28	1010.301	Hexagon screw	4	M12x30, 10.9	933
29	1180.325	Slide ring sealing	1	7690 H-56	
30	7306.032	Axle stub ring	1		
31	1170.547	O-ring	1	OR 120x4	
32	7322.069	Hexagon screw	16	M16x40, 10.9 VP as TI-58/2	933
33	7814.182	Stub axle	1		
34	1170.553	O-ring	1	OR 150x5, 72NBR872	
35	—				
36	1160.244	Oil seal	1	65x75x8 BASL	
37	7315.107	Washer	1		



Spare parts list

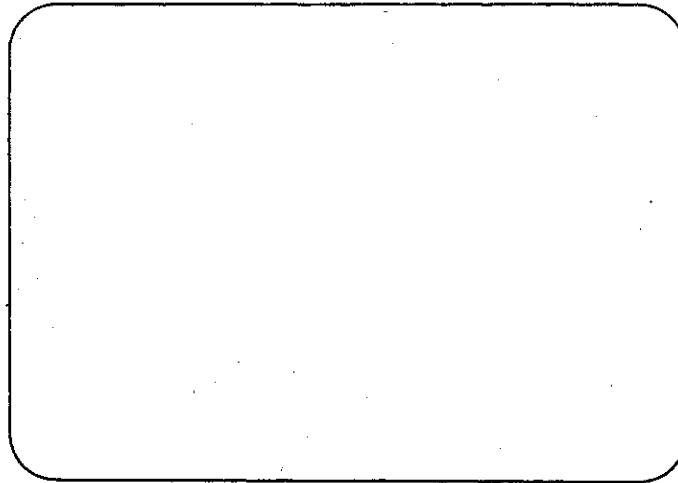
Description: Spring loaded cylinder
 Drawing No: 516-350
 List No: Z 36
 Date of creation: 23.05.96

NAF



Pos.	Part number	Part description	Qty.	Remark	DIN
---	5350.016	Spring loaded cylinder. Compl	1	KMF 731.501.000.000 without Pos.30	
1	5266.012	Screw Plug	1	M50x1,5	
2	5254.017	Protective cap	1		
3	1010.316	Hex bolt	1	M12x25 8.8	933
4	1170.095	O-ring	1	40x5 72 NBR 872	
5	5275.002	Housing	1		
6	1250.237	Plate spring	26	80x31x2,5 Nr. 920 197 01 Fa.Bauer	
7	5252.095	Piston	1		
8	1020.153	Allen screw	2	M8x60 10.9	912
9	1190.105	Spring washer	2	8 St	7980
10	1020.211	Allen screw	1	M10x40 8.8	912
11	1060.115	Hex nut	1	AM10 10	439
12	1180.795	Guide ring	1	80x85x5,6 GP 6500 850-C380 Fa.BuS	
13	5263.060	Cylinder (upper part)	1		
14	7319.068	Gasket	1	0,5 AFM 38	
15	1180.792	Piston seal	1	85x73x8,5 C2 8045 N3584 Fa.Parker	
16	1250.598	Breather valve	2	M14x1,5 FAG MR0080	
17	1180.794	Guide ring	1	30x35x5,6 GR 6500 300-C 380 Fa.BuS	
18	1170.292	O-ring	1	55x5 72 NBR 872	
19	5263.059	Cylinder (lower part)	1		
20	1180.791	Piston seal	2	35x25x7 C2 3050 N 3584 Fa.Parker	
21	5214.002	Stud	1		
22	1170.240	O-ring	1	60x4 72 NBR 872	
23	5252.093	Compression stud	1		
24	1180.794	Guide ring	1	30x35x5,6 GR 6500 300-C 380 Fa.BuS	
25	5265.026	Ring	1		
26	1180.790	Piston seal	2	55x45x7 C2 5045 N 3584 Fa.Parker	
27	1180.793	Guide ring	1	50x55x5,6 GP 6500 550-C380 Fa.BuS	
28	1020.257	Allen screw	4	M10x80 10.9	912
29	1190.116	Spring washer	4	10 St	7980
30	7835.001	Wedge	1	Order separately, please	

Blue - F



Vendor Component Info Packet -

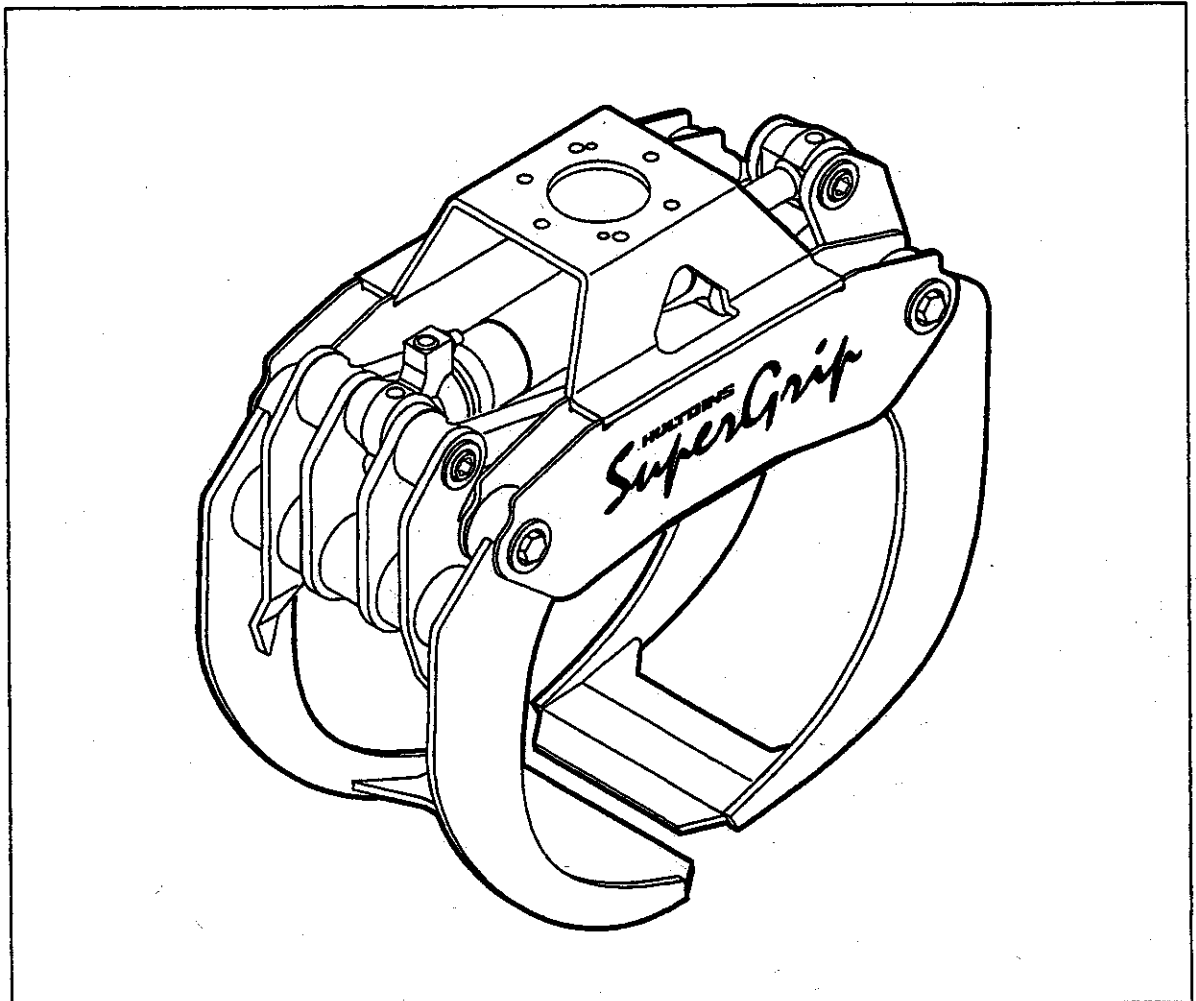
***HULTDINS/INDEXATOR
Grapple Buckets & Rotators...***

360 Grapple - PN# 19057

360S Grapple - PN# 19980

GV11US Rotator - PN# 20207

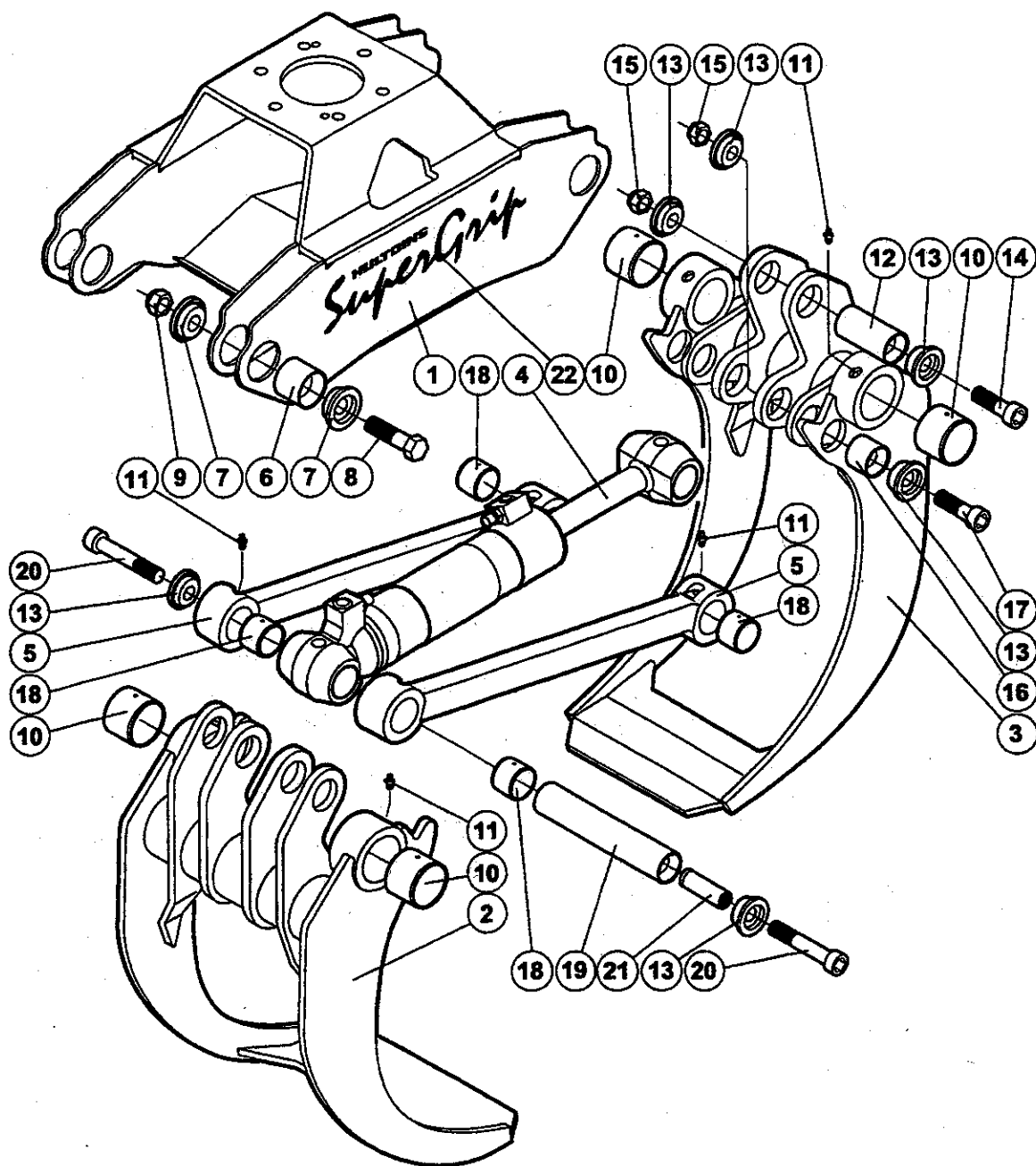
HULTDINSTM SuperGrip



SuperGrip 360

Parts manual

Grapple compl.

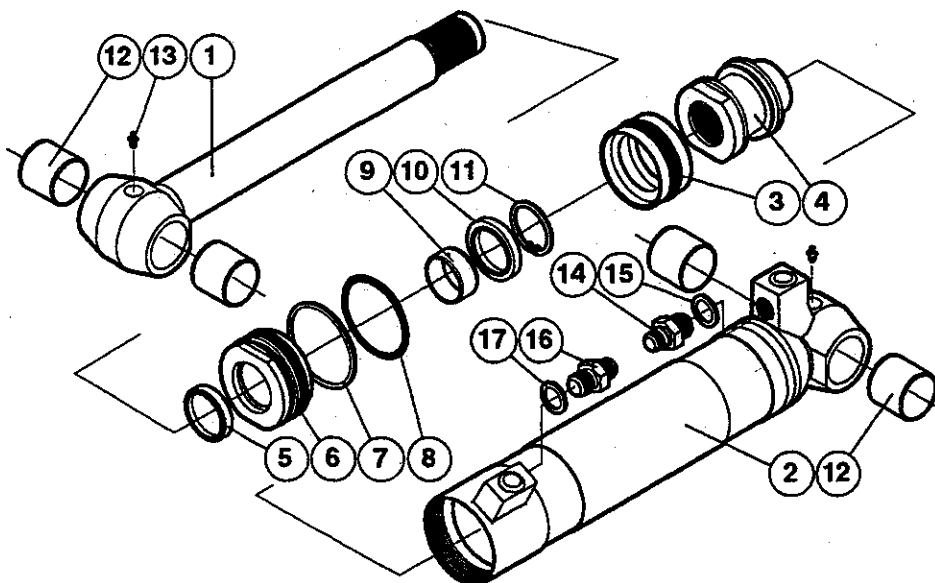


Blue F.2

Pos	Qty	Part no.	Description	Notes
-	1	0680000	SuperGrip 360	Pos 1-22
1	1	0680001	Frame	
2	1	0680008	Grapple arm, female	
3	1	0680007	Grapple arm, male	
4	1	0680004	Cylinder assy. compl.	Ø 90/50
5	2	0680030	Rod	
6	4	0680009	Pin	
7	8	0680021	Washer	
8	4	0104616	Hex. bolt	M6S 20 x100 10.9
9	4	0106032	Nut	M6M 20 GB10 FOS.
10	4	0680071	Bushing	
11	8	0114004	Grease nipple	M6 x 1
12	1	0680077	Pin	
13	8	0680054	Washer	
14	1	0104132	Socket head cap screw	MC6S 16 x160 12.9
15	3	0106030	Nut	M6M 16 GB10 FOS.
16	2	0680015	Pin	
17	2	0104502	Socket head cap screw	MC6S 16 x110 12.9
18	4	0680072	Bushing	
19	1	0680075	Pin	
20	1	0104502	Socket head cap screw	MC6S 16 x110 12.9
20	1	0104132	Socket head cap screw	MC6S 16 x160 12.9
21	1	0660263	Nut	
22	2	0146026	Decal	SuperGrip 360

Blue F.3

Cylinder assy. compl.



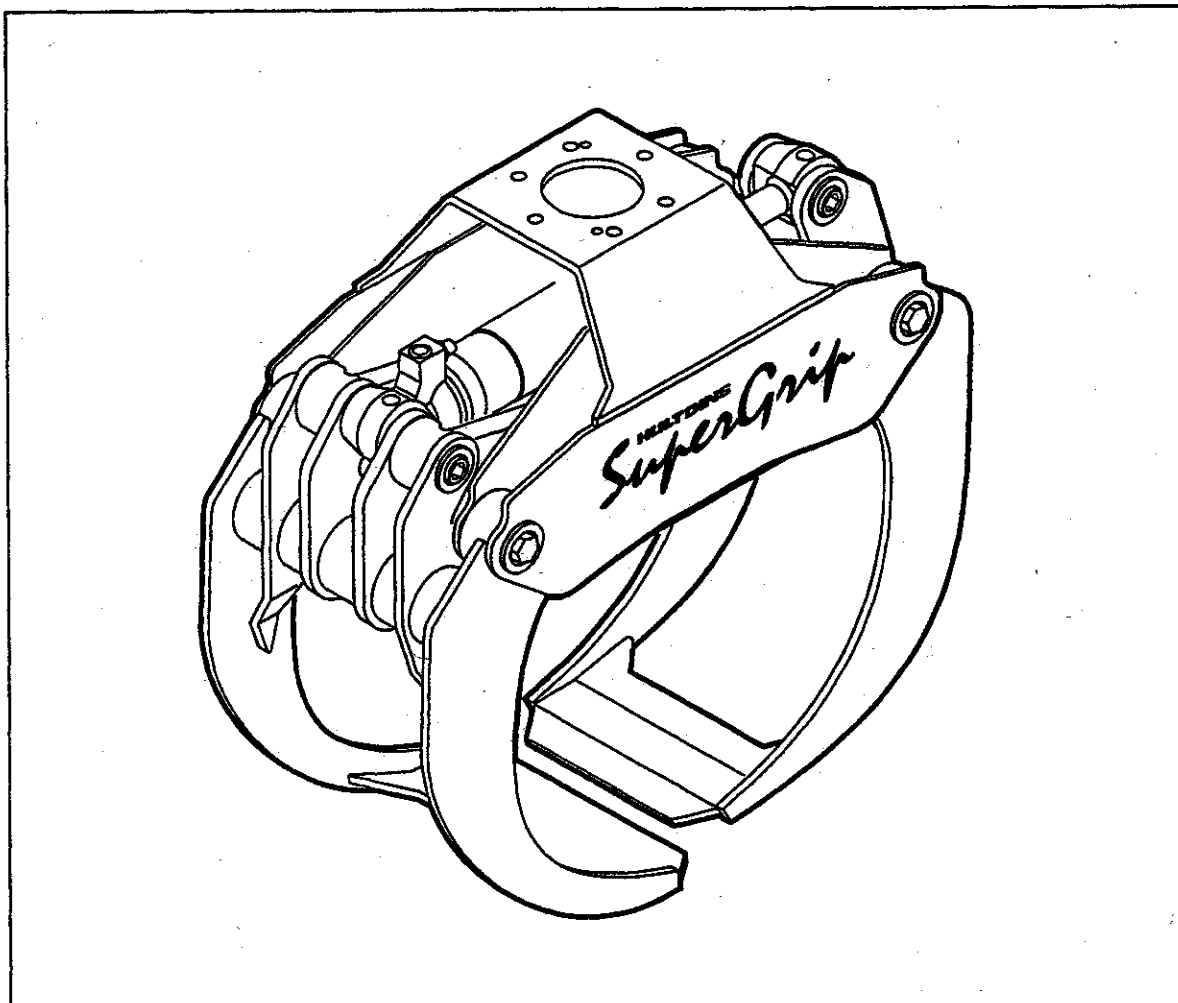
Blue F.4

Pos	Qty	Part no.	Description	Notes
	1	0680004	Cylinder assy. compl.	Pos 1-17, Ø 90/50
1	1	0680006	Piston rod	
2	1	0680005	Tube assembly	
3	1	0120041	Piston seal	Ø 090/70 x 22.4
4	1	0680034	Piston	
5	1	0116001	Dust seal	Ø 50/60 x 7 x 10
6	1	0680033	Cap	
7	1	0118529	Support ring	Ø 85/95
8	1	0118103	O-ring	Ø 84.1 x 5.7
9	1	0124017	Bushing	
10	1	0120019	Piston rod seal	Ø 050/065 x 10.5
11	1	0112007	Locking ring	SGH 65
12	4	0680073	Bushing	
13	2	0114004	Grease nipple	M6 x 1
14	1	0130064	Nipple	BSPP 3/4"
14*	1	9008002	Nipple	BSPP 3/4" - #8 JIC
15	1	0106584	Bonded seal	3/4"
16	1	0130008	Nipple	BSPP 1/2"
16*	1	9008001	Nipple	BSPP 1/2" - #8 JIC
17	1	0106577	Bonded seal	1/2"
-	-	0121034	Seal kit	Pos 3, 5, 7-10

*) For use in Canada.

Blue F.5

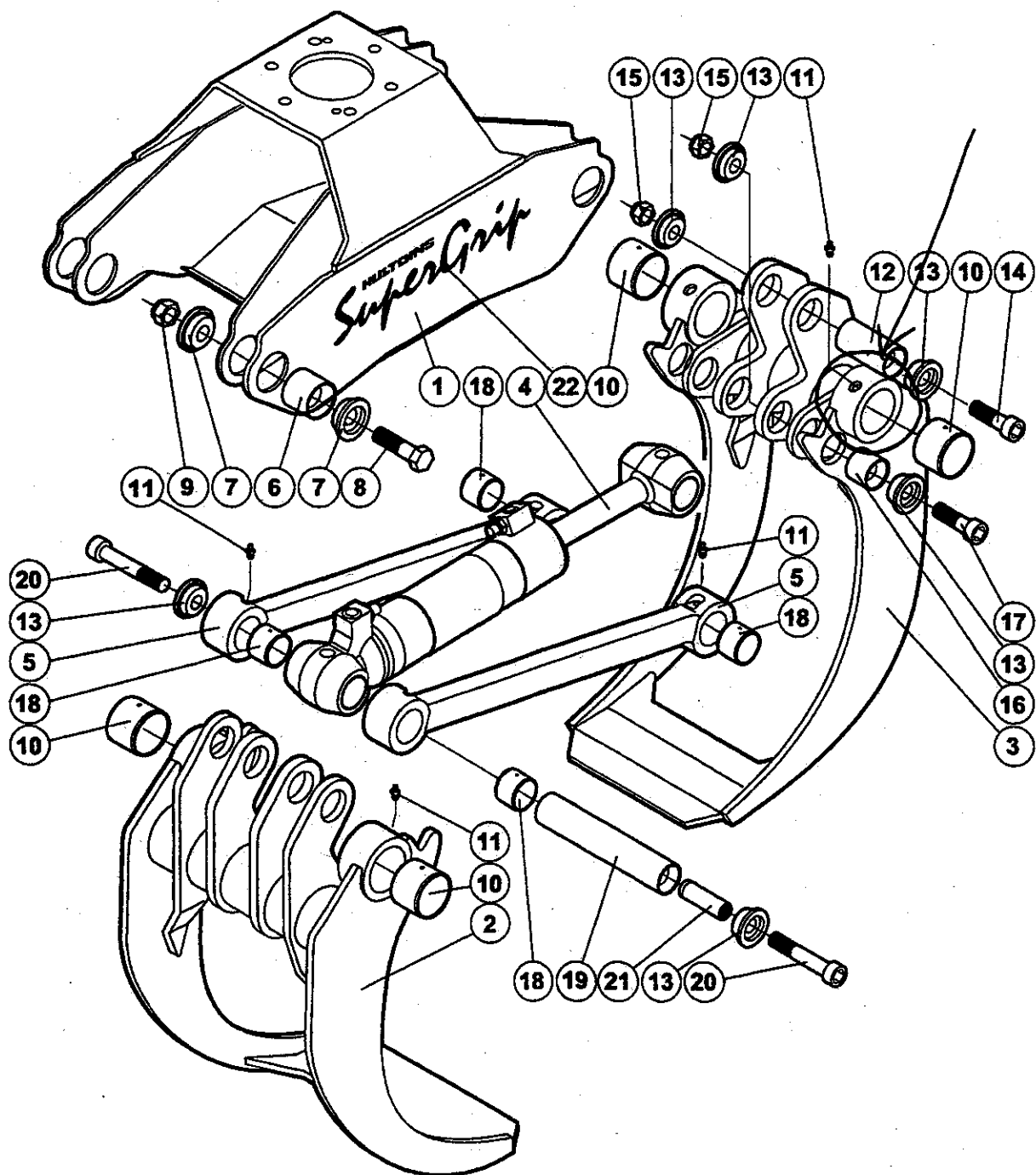
HULTDINS *SuperGrip*™



SuperGrip 360S

Parts manual

Grapple compl.

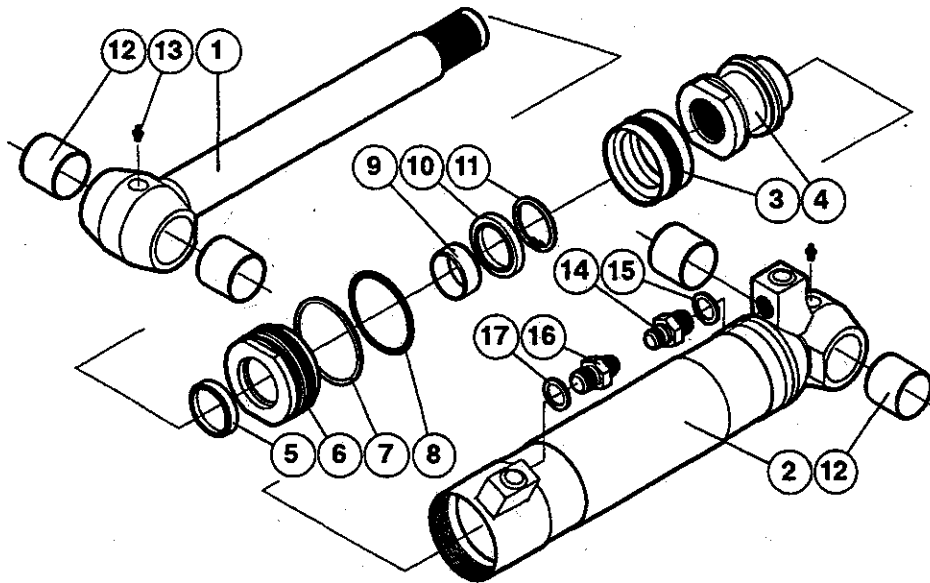


Blue F.7

Pos	Qty	Part no.	Description	Notes
-	1	0680500	SuperGrip 360S	Pos 1-22
1	1	0680501	Frame	
2	1	0680508	Grapple arm, female	
3	1	0680507	Grapple arm, male	
4	1	0680004	Cylinder assy. compl.	Ø 90/50
5	2	0680030	Rod	
6	4	0680521	Pin	
7	8	0683021	Washer	
8	4	0104634	Hex. bolt	M6S 24 x110 10.9
9	4	0106033	Nut	M6M 24 GB10 FOS.
10	4	0683071	Bushing	
11	8	0114004	Grease nipple	M6 x 1
12	1	0680077	Pin	
13	8	0680054	Washer	
14	1	0104132	Socket head cap screw	MC6S 16 x160 12.9
15	3	0106030	Nut	M6M 16 GB10 FOS.
16	2	0680015	Pin	
17	2	0104502	Socket head cap screw	MC6S 16 x110 12.9
18	4	0680072	Bushing	
19	1	0680075	Pin	
20	1	0104502	Socket head cap screw	MC6S 16 x110 12.9
20	1	0104132	Socket head cap screw	MC6S 16 x160 12.9
21	1	0660263	Nut	
22	2	0146038	Decal	SuperGrip 360S

Blue F.8

Cylinder assy. complete



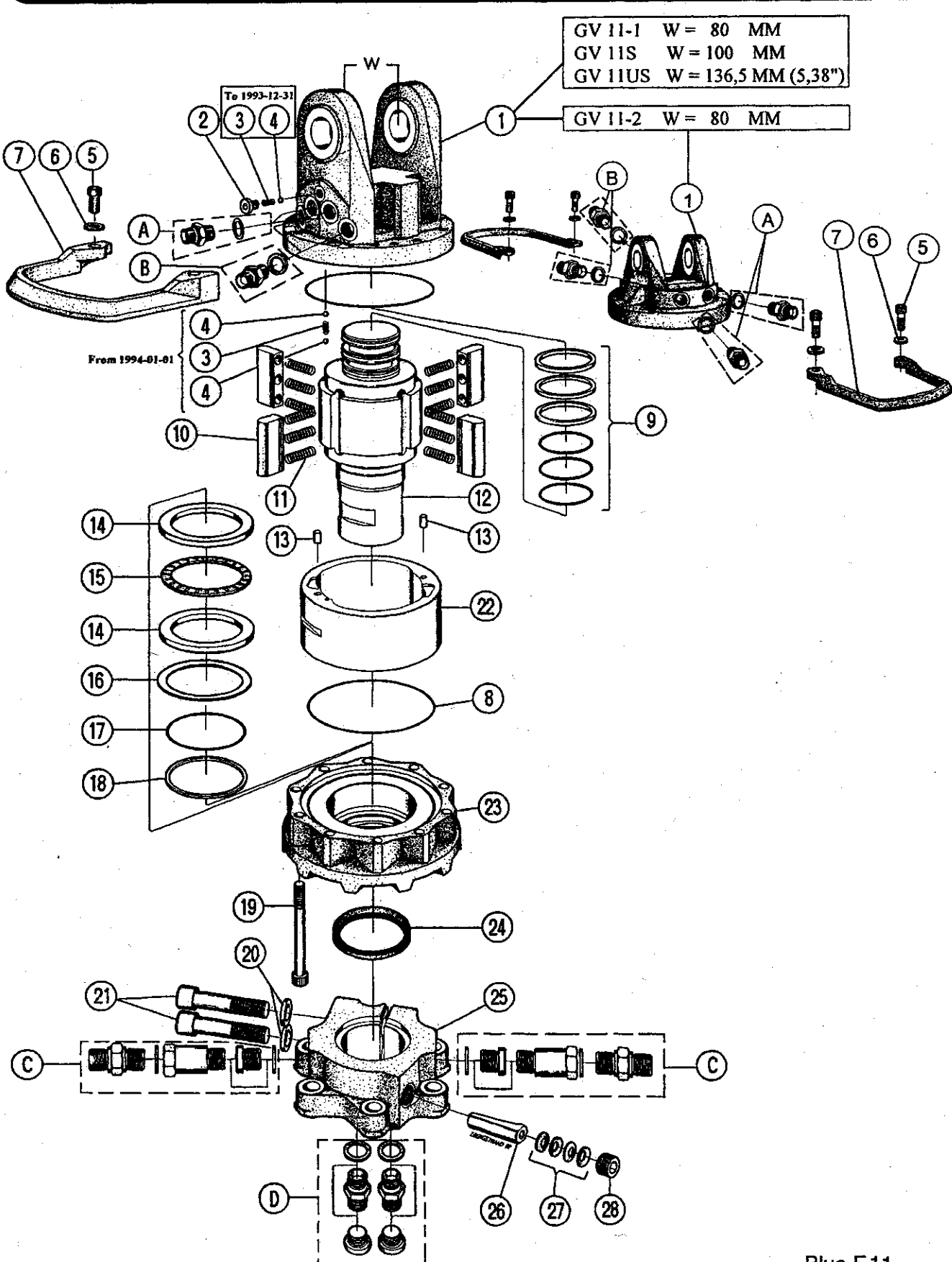
Blue F.9

Pos	Qty	Part no.	Description	Notes
	1	0680004	Cylinder assy. compl.	Pos 1-17, Ø 90/50
1	1	0680006	Piston rod	
2	1	0680005	Tube assembly	
3	1	0120041	Piston seal	Ø 090/70 x 22.4
4	1	0680034	Piston	
5	1	0116001	Dust seal	Ø 50/60 x 7 x 10
6	1	0680033	Cap	
7	1	0118529	Support ring	Ø 85/95
8	1	0118103	O-ring	Ø 84.1 x 5.7
9	1	0124017	Bushing	
10	1	0120019	Piston rod seal	Ø 050/065 x 10.5
11	1	0112007	Locking ring	SGH 65
12	4	0680073	Bushing	
13	2	0114004	Grease nipple	M6 x 1
14	1	0130064	Nipple	BSPP 3/4"
14*	1	9008002	Nipple	BSPP 3/4" - #8 JIC
15	1	0106584	Bonded seal	3/4"
16	1	0130008	Nipple	BSPP 1/2"
16*	1	9008001	Nipple	BSPP 1/2" - #8 JIC
17	1	0106577	Bonded seal	1/2"
-	-	0121034	Seal kit	Pos 3, 5, 7-10

*) For use in Canada.

Blue F.10

ROTATOR GV 11, GV 11S, GV 11US



Blue F.11

DATUM / DATE 950301  **Indexator**


Indexator

ROTATOR GV 11, GV 11S, GV 11US

POS FIG	DETALJ NR PART NO	ANT QTY	BENÄMNING	DESCRIPTION	SATS KIT	ANM NOTES
1	5011 049	1	GV 11-1, komplett	GV 11-1, complete		
5	5011 013	1	Övre statorhalva	Stator plate, upper		
	1016 203	2	Skruv	Screw		
1	5011 048	1	GV11-2, komplett	GV11-2, complete		
5	5011 032	1	Övre statorhalva	Stator plate, upper		
6	1016 203	4	Skruv	Screw		
7	1017 326	4	Bricka	Washer		
	5011 006	2	Nippelskydd	Hoseguard		
1	5011 075	1	GV 11S, komplett	GV 11S, complete		
5	5011 017	1	Övre statorhalva	Stator plate, upper		
	1016 203	2	Skruv	Screw		
1	5011 180	1	GV 11US, komplett	GV 11US, complete		
5	5011 178	1	Övre statorhalva	Stator plate, upper		
	1019 926	2	Skruv	Screw		
2	5001 381	1	Propp	Plug		R 1/8"
3	1020 536	1	Fjäder	Spring		
4	1005 545	2	Kula	Ball		
6	1017 326	2	Bricka	Washer		
7	5011 006	1	Nippelskydd	Hoseguard		
8	1013 515	2	O-ring	O-ring	*	
9	1005 669	3	Glid-o-ring	Glide ring	*	
10	5011 037	5	Vinge	Vane		
11	5006 030	15	Fjäder	Spring		
12	5011 026	1	Rotatoraxel	Rotator shaft		
13	1019 900	2	Spiralspännstift	Pin		
14	1018 951	2	Löpbricka	Washer		
15	1015 080	1	Axialnålkrans	Axial needle bearing		
16	5010 081	1	Sims, sats	Shim, set		
	1016 658	1	Shims	Shim		0,100 mm
	1017 029	1	Shims	Shim		0,125 mm
	1016 641	1	Shims	Shim		0,150 mm
	1017 425	1	Shims	Shim		0,178 mm
17	1007 269	1	O-ring	O-ring	*	
18	1015 064	1	Stödring	Support ring	*	
19	1002 120	10	Skruv	Screw		
20	1019 496	2	Bricka	Washer		
21	1019 488	2	Skruv	Screw		M20 x 100
22	5011 023	1	Statorring	Stator frame		
23	5011 020	1	Undre statorhalva	Stator plate, lower		
24	1019 470	1	Rotationsavstrykare	V-ring	*	
25	5011 022	1	Nedre länk	Link, lower		
26	5010 038	1	Kil	Wedge		
27	1015 643	4	Tallriksfjäder	Cup spring		
28	5010 039	1	Låsskruv	Locking screw		
*	5011 047	1	Tätningssats	Seal kit		
A-D			Nippelsats se förteckning nästa sida	Adapter set see spec list next page		

DATUM / DATE

940401

 Indexator

Blue F.12