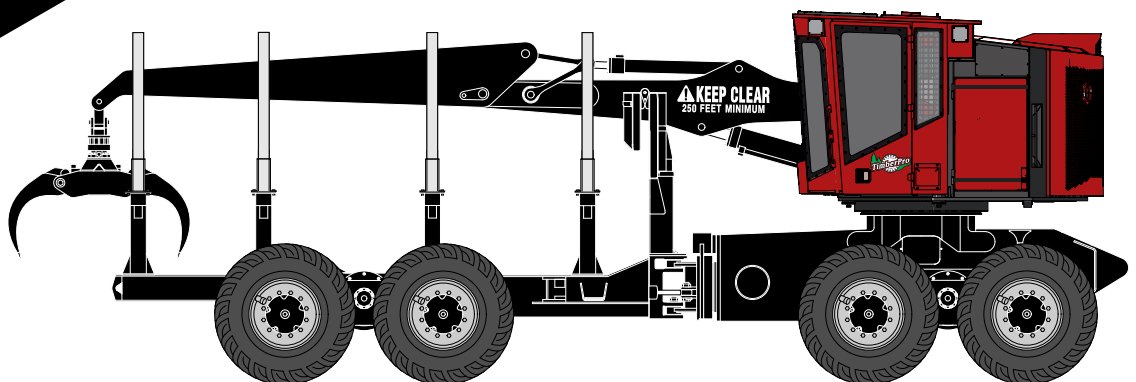


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800C Series Parts Manual



PN (rev 0)

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800C Series



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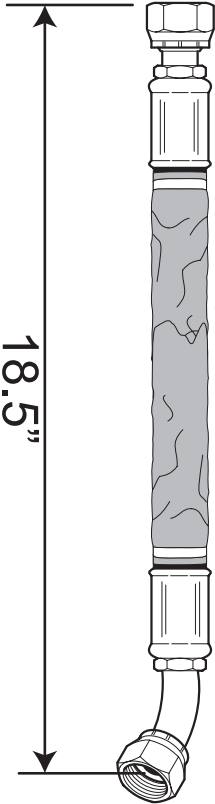
Control Valve Harness	CB-4-2
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Hydraulic Hose Code

Common Hose Description: 2018.5-08-080S-0804-WS

2 018.5 - 08 - 08 0S - 08 04 - WS

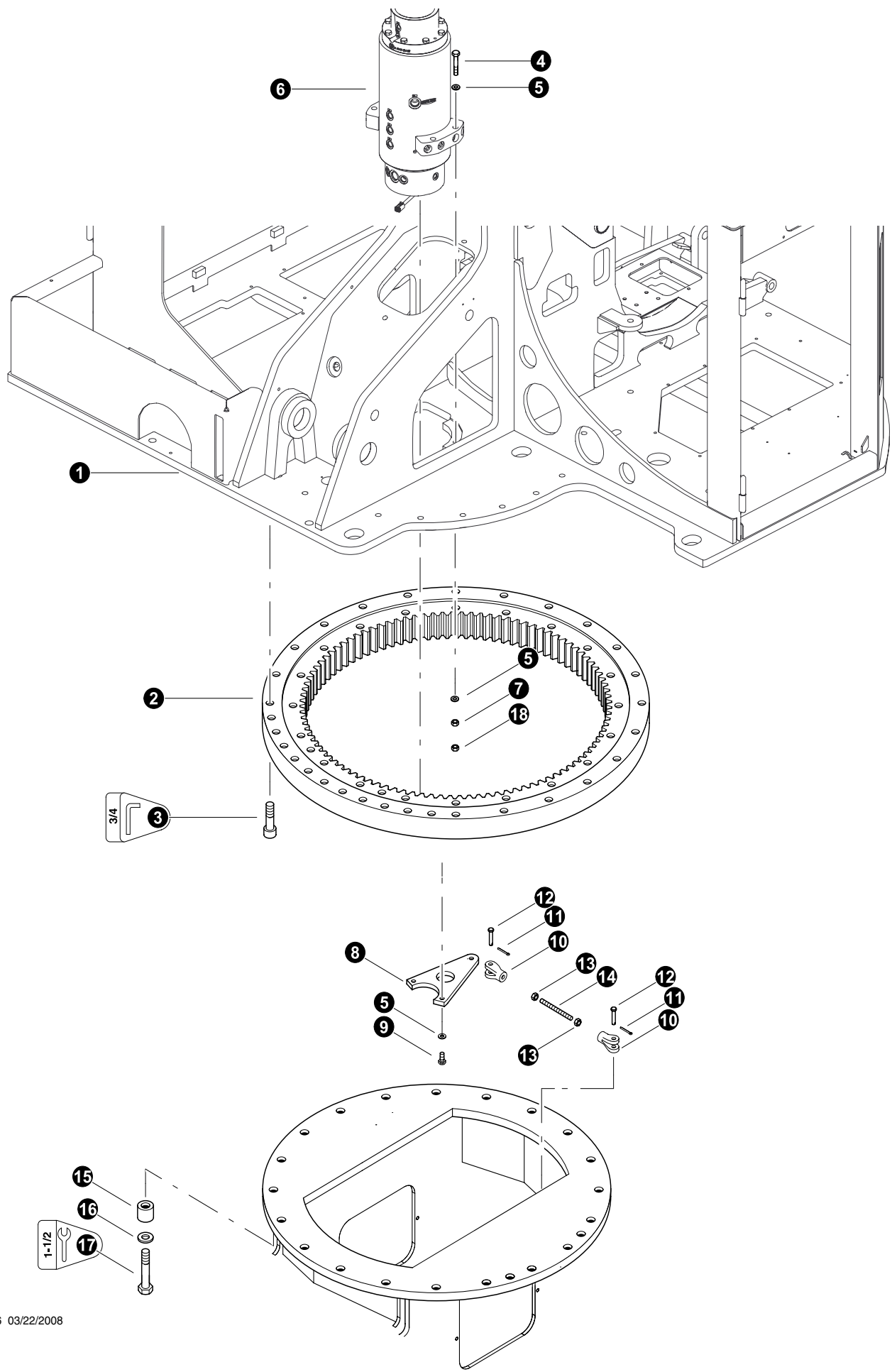
# of Wires (Pressure Rating)	Overall Length	Special	Hose Diameter	Coupling 1 Size	Style 1	Coupling 2 Size	Style 2	Protective Wrap
2 4 5 6	XXX (inches)	CS FR FS	02 = 1/8" 04 = 1/4" 06 = 3/8" 08 = 1/2" 10 = 5/8" 12 = 3/4" 16 = 1" 20 = 1 1/4" 24 = 1 1/2" 32 = 2" 48 = 2 1/2"	02 04 06 08 10 12 16 20 24 32 48		02 04 06 08 10 12 16 20 24 32 48		WS = Wear Sleeve SW = Sprial Wrap AG = Flat Armor Guard SG = Metal Spring Guard AC = Against Curve



Fitting Styles
MJ = Male Jic Str. JS Female Jic Str. J4 = Female Jic 45 J9 = Female Jic 90 OM = Male O-Ring Face OS = Female O-Ring Face O4 = Female O-Ring Face 45 O9 = Female O-Ring Face 90
MP = Male Pipe FP = Female Pipe PS = Male Pipe Swivel PA = Code 61 Flange PA4 = Code 61 Flange 45 PA9 = Code 61 Flange 90 PH = Code 62 Flange PH4 = Code 62 Flange 45 PH9 = Code 62 Flange 90

Section UP-1

Upper Turntable - Structural Components, Doors, and Covers



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UPPER TURNTABLE INSTALLATION (Non-Leveling Machines)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	46011-UP	1		WELDMENT, UPPER - C SERIES (LH) COMPLETE	
2	19631-UP	1		BEARING, swing	
3	51690-UP	30		BOLT, ALLEN HEAD - 1" X 4.5" (Torque to 1000 ft.lbs (1355 Nm))	
4	15565-UP	4		BOLT - 1/2" x 2-1/2"	
5	15534-UP	10		WASHER, SAE flat - 1/2"	
6	REF.	1		ROTARY MANIFOLD	UP-1
7	10815-UP	4		NUT, lock - 1/2"	
8	52379-UP	1		BRACKET, SWIVEL LOCK - TORQUE ARM NEW	
9	22463-UP	2		BOLT, special - 1/2" x 1-1/4" (Hole drilled in head for safety wire)(See Note 1 Below)	
	22464-UP	10"		WIRE, safety - 16 gauge	
10	52381-UP	2		YOKE, ROTARY MANIFOLD (810) 5/8 X 5/8	
11	-UP	2		KEY, COTTER	
12	-UP	2		PIN,	
13	52395-UP	2		NUT, JAM .63-18NF HEX (PLATED)	
14	52394-UP	1		STUD, 5/8"-18NF X 7.5 LG (ZINC PLATED)	
15	12463-UP	24		SPACER, bolt - upper turntable mounting	
16	18532-UP	24		WASHER, SAE FLAT THICK - 1"	
17	18535-UP	24		BOLT - 1" x 5" (Torque to 1000 ft.lbs (1350 Nm))	
18	17515-UP	4		NUT, HEX - .625"	



See reference page for component or assembly breakdown.



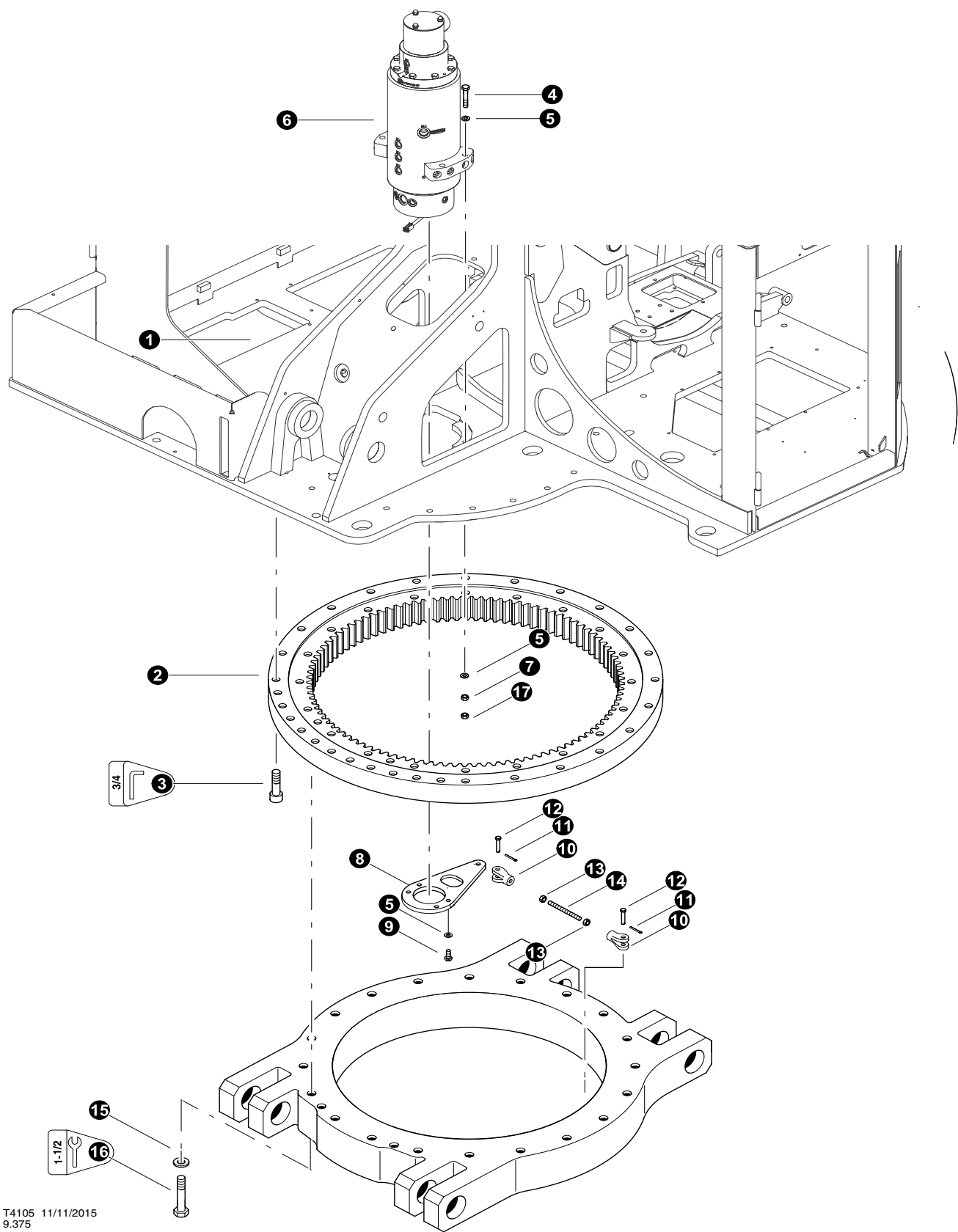
Kit or Assembly - includes all items indented underneath.

Note: 1

Use Loctite 272 (blue) during installation.

Note: 2

Use Loctite 272 (red - high strength) during installation.



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9.375

UPPER TURNTABLE INSTALLATION (Leveling Machine)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	46011-UP	1		WELDMNT, UPPER - C SERIES (LH) COMPLETE	
2	19631-UP	1		BEARING, swing	
3	51690-UP	30		BOLT, ALLEN HEAD - 1" X 4.5" (Torque to 1000 ft.lbs (1355 Nm))	
4	15565-UP	4		BOLT - 1/2" x 2-1/2"	
5	15534-UP	10		WASHER, SAE flat - 1/2"	
6	REF.	1		ROTARY MANIFOLD	UP-1
7	10815-UP	4		NUT, lock - 1/2"	
8	52379-UP	1		BRACKET, SWIVEL LOCK - TORQUE ARM NEW	
9	22463-UP	2		BOLT, special - 1/2" x 1-1/4" (Hole drilled in head for safety wire)(See Note 1 Below)	
	22464-UP	10"		WIRE, safety - 16 gauge	
10	52381-UP	2		YOKE, ROTARY MANIFOLD (810) 5/8 X 5/8	
11	-UP	2		KEY, COTTER	
12	-UP	2		PIN,	
13	52395-UP	2		NUT, JAM .63-18NF HEX (PLATED)	
14	52394-UP	1		STUD, 5/8"-18NF X 7.5 LG (ZINC PLATED)	
15	18532-UP	24		WASHER, SAE FLAT THICK - 1"	
16	18535-UP	24		BOLT - 1" x 5" (Torque to 1000 ft.lbs (1350 Nm))	
17	17515-UP	4		NUT, HEX - .625"	



See reference page for component or assembly breakdown.



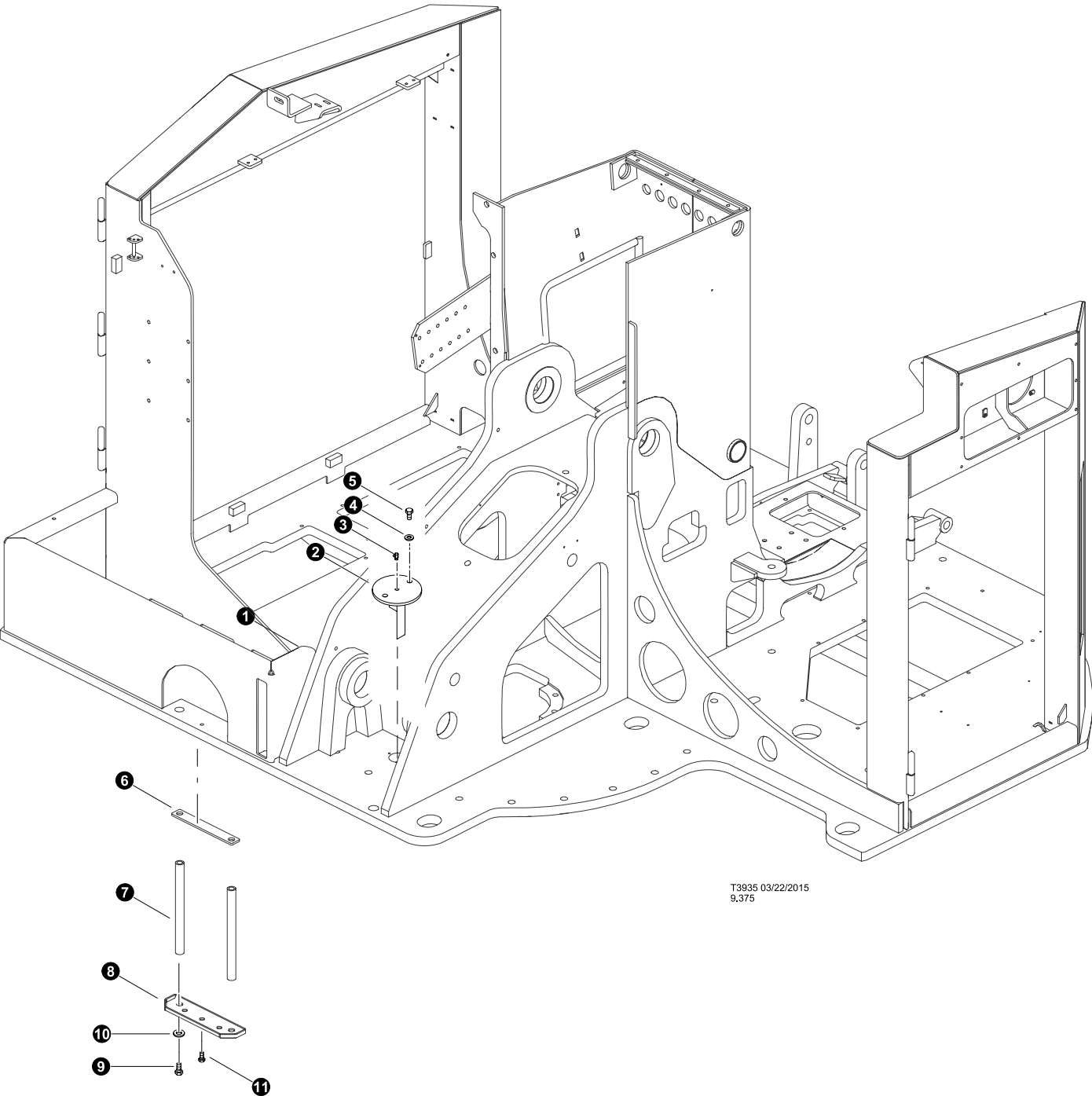
Kit or Assembly - includes all items indented underneath.

Note: 1

Use Loctite 272 (blue) during installation.

Note: 2

Use Loctite 272 (red - high strength) during installation.



UPPER TURNTABLE INSTALLATION

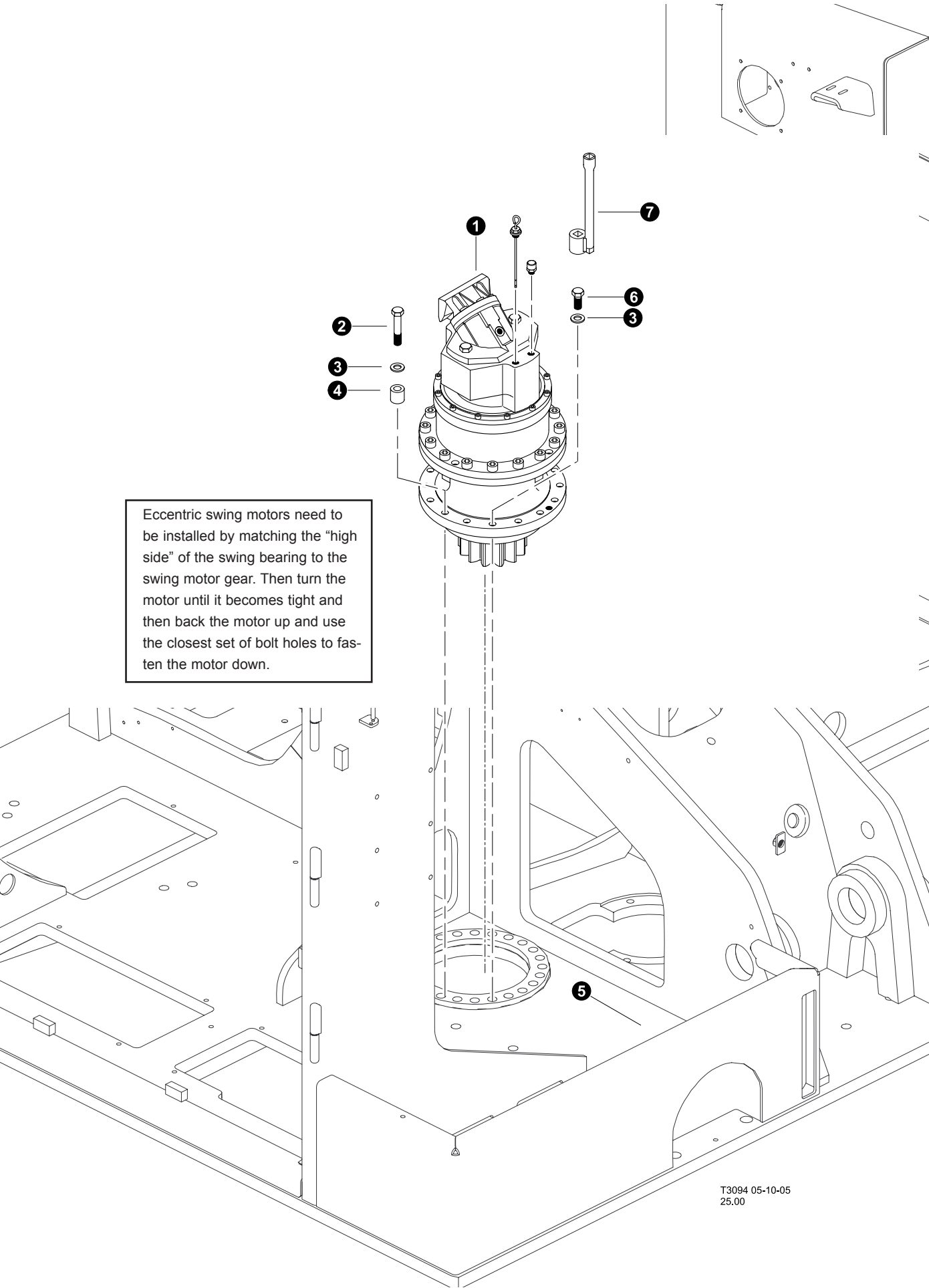
(Swing Bearing Grease Cup - Front Step)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		UPPER TURNTABLE WELDMENT	UP-1
2	17612-UP	1		CUP, BULL GEAR GREASE - WIDE GEAR	
3	15662-UP	1		FITTING, GREASE - .25-28" - 90	
4	15528-UP	2		WASHER, SAE FLAT - .375"	
5	15542-UP	2		BOLT - .375" X .75"	
6	46570-UP	1		STEP, FRONT TOP	
7	54018-UP	2		SPACER, FRONT STEP	
8	54017-UP	1		STEP, FRONT BOTTOM	
9	10839-UP	4		BOLT - .75" X 1.5"	
10	15550-UP	4		WASHER, SAE FLAT - .75"	
11	10783-UP	1		BOLT - .5" X 1"	

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

Note: 1

Use Loctite 272 (blue) during installation.



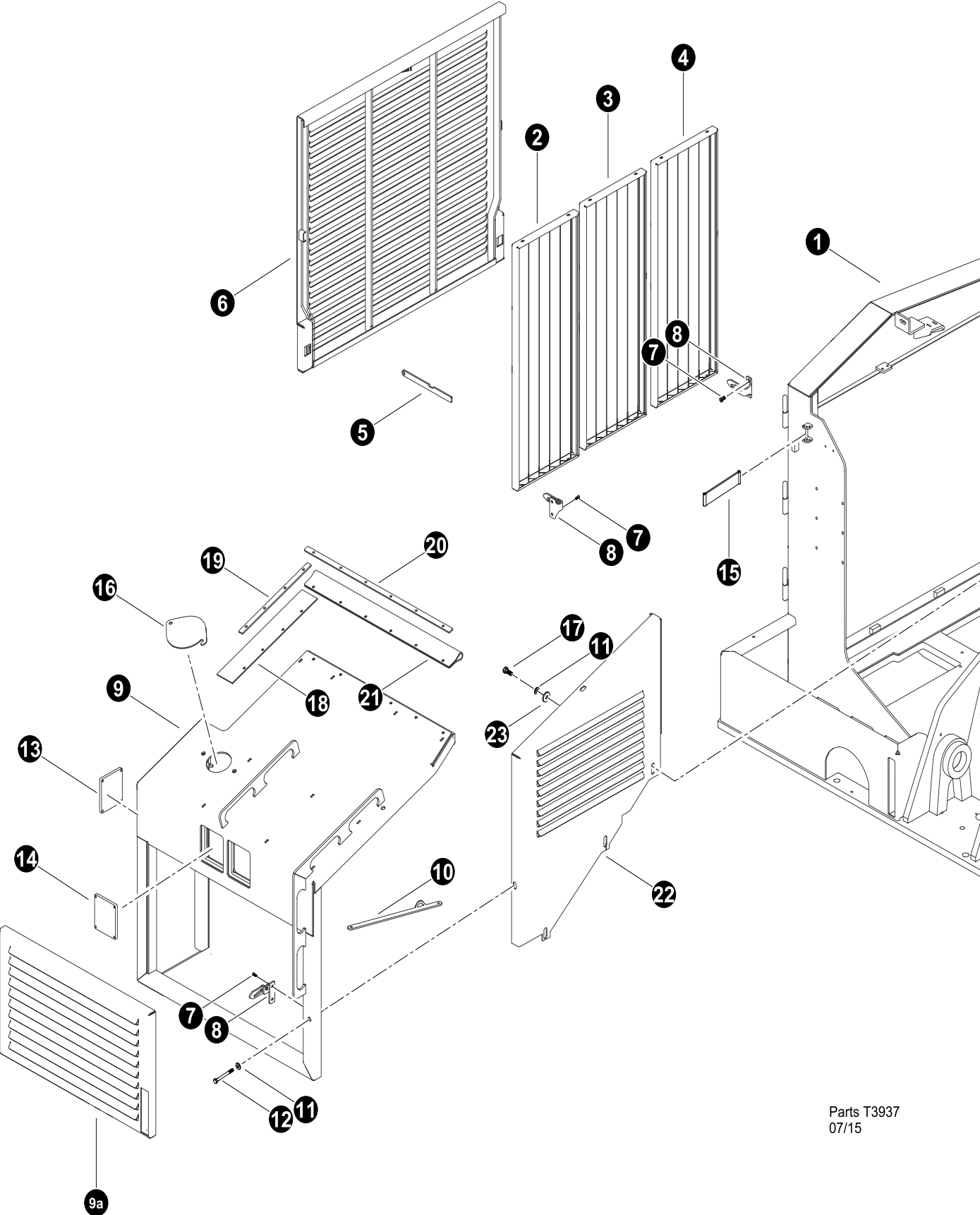
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SWING MOTOR INSTALLATION (Lohmann/Rexroth)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		SWING MOTOR - Lohmann/Rexroth	LH,HH
2	10720-UP	23		BOLT - 5/8" x 3.75" (Torque to 230 ft.lbs (310 Nm)) (see note 1)	
3	58098-UP	23		WASHER, LOCKING	
4	19242-UP	23		SPACER, bolt	
5	REF.	1		UPPER TURNTABLE WELDMENT	UP-1
6	15517-UP	1		BOLT - .625" X 2.5" (Torque to 230 ft.lbs (310 Nm)) (see note 1)	
7	-UP	1		TOOL, Swing Motor Torque Socket	

Special Note:

 See reference page for component or assembly breakdown.



Parts T3937
07/15

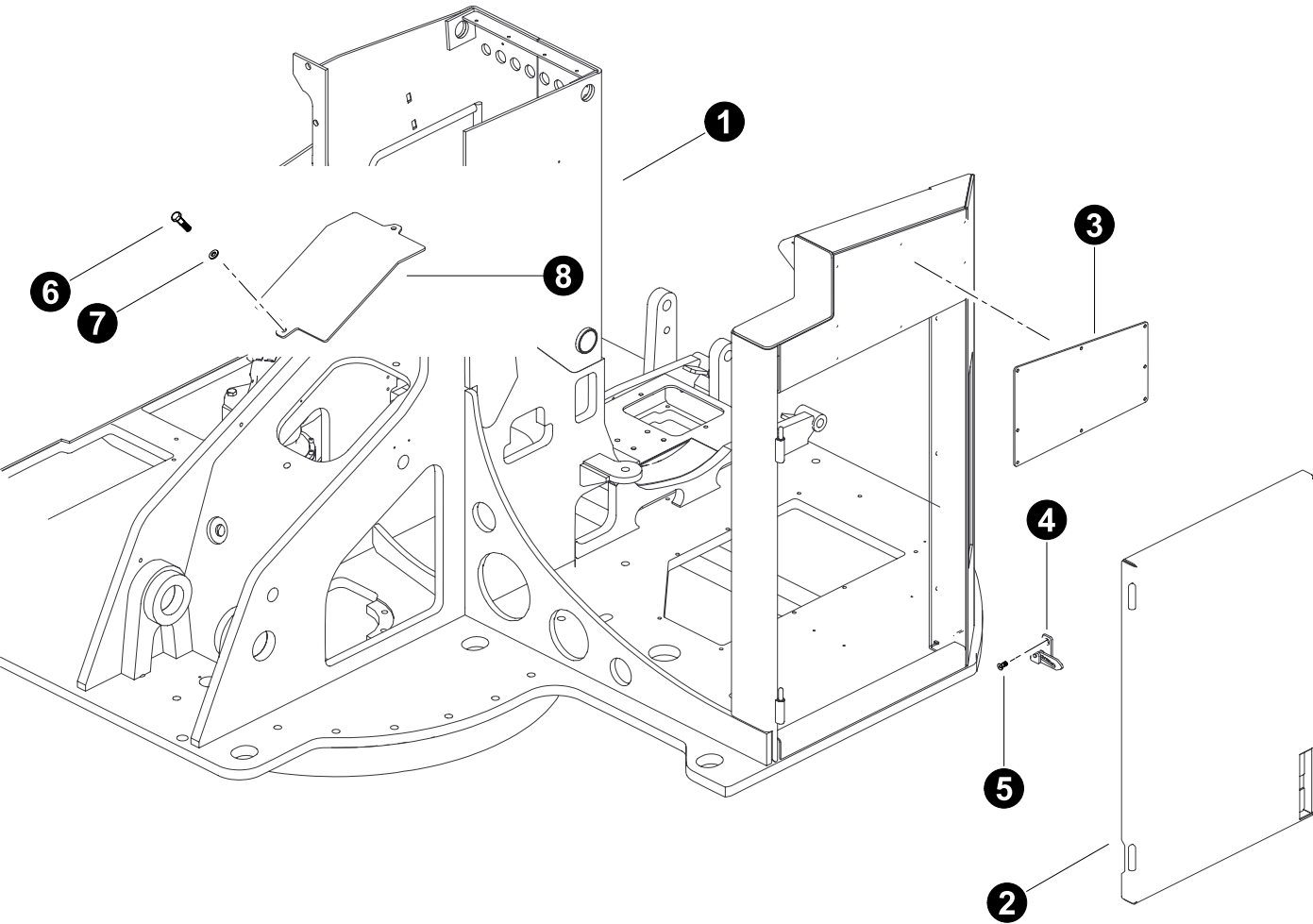
UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION

(Front Door and Side Radiator Door Install)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		UPPER TURNTABLE WELDMENT	UP-1
2	54493-UP	1		SCREEN, RADIATOR ENDS	
3	54494-UP	1		SCREEN, RADIATOR CENTER	
4	54493-UP	1		SCREEN, RADIATOR ENDS	
5	54481-UP	1		BAR, RADIATOR DOOR OPENING	
6	54838-UP	1		DOOR, - RADIATOR/COOLER "C" SERIES	
7	51850-UP	6		BOLT, CAM LATCH - FHSCS 3/8 - 16 X 1 ZB	
8	51657-UP	2		LATCH, CAM - DOOR R.H. (RADIATOR-GULLW)	
-	51658-UP	1		LATCH, CAM - DOOR L.H. (RADIATOR-GULLW)	
9	46160-UP	1		DOOR, FRONT SWING OUT - C SERIES LH	
9a	46095-UP	1		DOOR, FRONT - C SERIES (LH CAB)	
10	46513-UP	1		DOOR, FRONT PROP-ROD - C MODEL	
11	15534-UP	4		WASHER, SAE FLAT - .5"	
12	10834-UP	2		BOLT - .5" X 4"	
13	53081-UP	1		LEXAN, LIGHT	
14	53081-UP	2		LEXAN, LIGHT	
15	51981-UP	1		STRAP, DOOR STOP - 830/630	
16	12150-UP	1		COVER, ACCESS - RAD FILL / STEER CYL	
17	10783-UP	2		BOLT - .5" X 1"	
18	47151-UP	1		RUBBER, SWING OUT DOOR FLAP	
19	46989-UP	1		BAR, RUBBER - FRONT DOOR SHORT	
20	46987-UP	1		BAR, RUBBER - FRONT DOOR LONG	
21	46988-UP	1		RUBBER, FRONT DOOR SEAL	
22	47106-UP	1		PANEL, INNER - C MODEL	
23	54148-UP	2		WASHER, BURNED - .66" X 2" x 1/4"	



See reference page for component or assembly breakdown.



T3938 03-2015
6.25

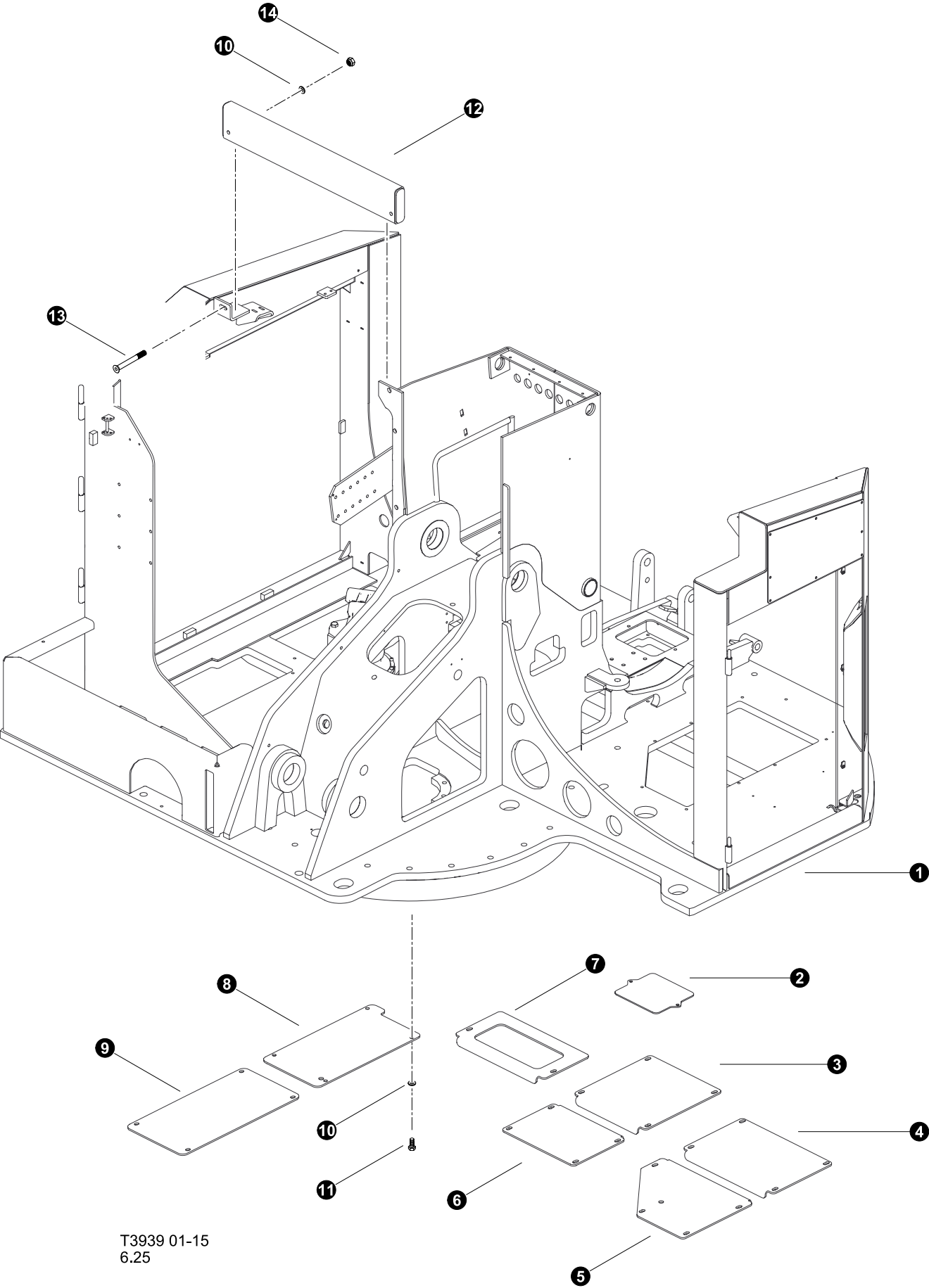
UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION

(Rear Panels and Oil Cooler Door Installation)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		UPPER TURNTABLE WELDMENT	UP-1
2	46162-UP	1		WELDMENT, DOOR ELECTRICAL -C SERIES LH	
3	46994-UP	1		PLATE, AIR INTAKE COVER - CUMMINS	
-	46857-UP	1		PLATE, AIR INTAKE GRILLE (Volvo)	
4	51657-UP	2		LATCH, CAM - DOOR R.H. (RADIATOR-GULLW)	
5	51850-UP	6		BOLT, CAM LATCH - FHSCS 3/8 - 16 X 1 ZB	
6	10783-UP	2		BOLT - .5" X 1"	
7	15534-UP	2		WASHER, SAE FLAT - .5"	
8	46538-UP	1		COVER, CENTER PLATE - C MODEL	



See reference page for component or assembly breakdown.



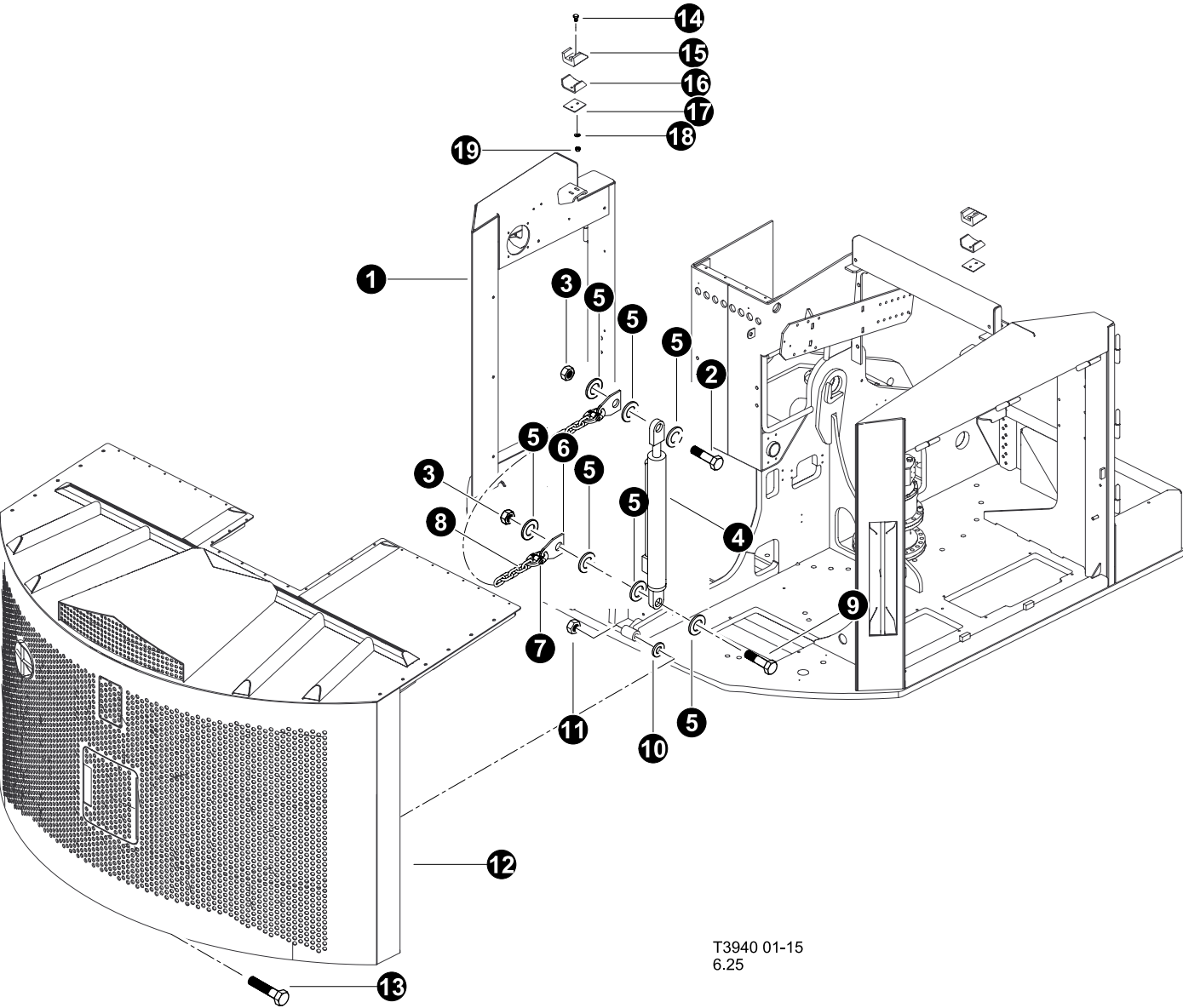
T3939 01-15
6.25

UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION (COVER INSTALLATIONS)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		UPPER TURNTABLE WELDMENT	UP-1
2	54569-UP	1		COVER, UPPER REAR TUBELINE	
3	46466-UP	1		COVER, BOTTOM OIL PAN- REAR "C"	
4	46467-UP	1		COVER, BOTTOM OIL PAN - FRONT "C"	
5	46469-UP	1		COVER, TRIPLE DRIVE - FRONT "C"	
6	46468-UP	1		COVER, TRIPLE DRIVE - REAR "C"	
7	46656-UP	1		WELDMENT, COVER OIL PAN - C SERIES	
8	46462-UP	2		COVER, BOTTOM REAR - COOLER "C"	
9	46463-UP	1		COVER, BOOTOM FRONT - COOLER "C"	
10	15534-UP	30		WASHER, SAE FLAT - .5"	
11	10783-UP	28		BOLT - .5" X 1"	
12	46852-UP	1		WELDMENT, COOLER SUPPORT	
13	55631-UP	2		BOLT - .5 x 3.5" - COUNTER SUNK	
14	10815-UP	2		NUT, LOCK - .5"	



See reference page for component or assembly breakdown.



T3940 01-15
6.25

UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION

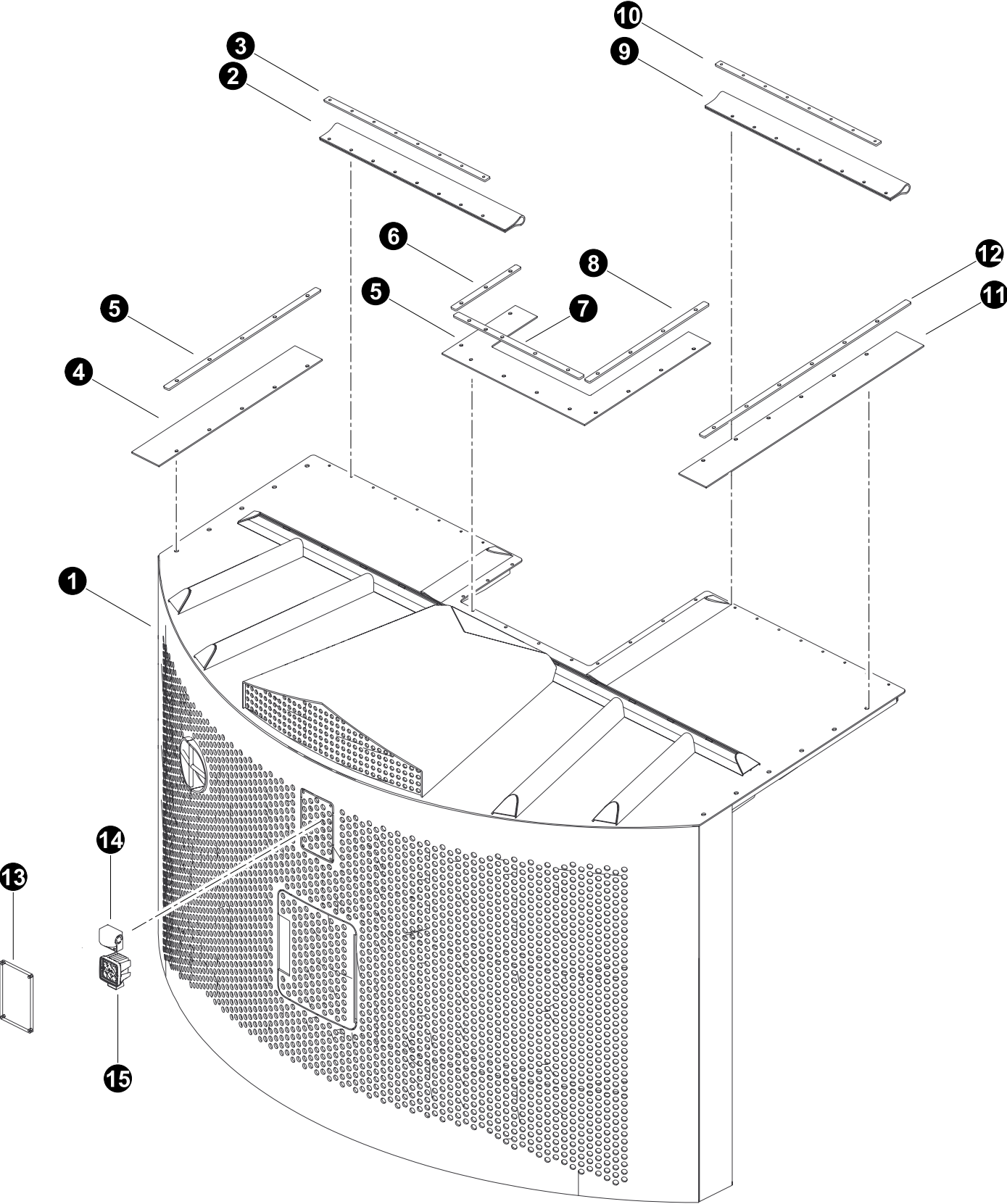
(Gull Wing Door Installation)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		UPPER TURNTABLE WELDMENT	UP-1
2	55114-UP	1		BOLT, GULLWING - ROD END 1.25" X 8"	
3	52026-UP	2		NUT, HEX GULLWING CYL. - 1.25" - GRD 9 (See Note1)	
4	REF.	1		GULL WING CYLINDER.	UP-1
5	22531-UP	4		WASHER, SAE FLAT - 1.25"	
6	52844-UP	2		LINK, GULLWING SAFETY CHAIN	
7	54260-UP	2		CLEVIS, 3/8" - GULLWING (2 PER) NEW	
8	54261UP	1		CHAIN, 23 LINK - GULLWING GR 80	
9	52025-UP	1		BOLT, GULLWING CYL. - 1.25" - 7 X 7"	
10	15579-UP	4		WASHER, SAE FLAT - 1"	
11	18253-UP	2		NUT, LOCK - 1"	
12	REF	1		DOOR, GULLWING - ASSEMBLY	UP-1
13	15580-UP	2		BOLT, GULLWING CYL. - 1" - 8"	
14	10823-UP	4		BOLT - .3125" X 2"	
15	54511-UP	2		ISOLATOR, GULLWING MOUNTING-UHMW BLOCK	
16	54512-UP	2		CHANNEL, ISOLATOR MOUNT - GULLWING	
17	54520-UP	2		SPACER, GULLWING ISOLATOR	
18	15559-UP	4		WASHER, SAE FLAT - .3125"	
19	1078 8-UP	4		NUT, NYLOCK - .3125"	

 See reference page for component or assembly breakdown.

Note: 1

Use Loctite 272 (blue) during installation.



UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION

(Gull Wing Assembly and Installation)

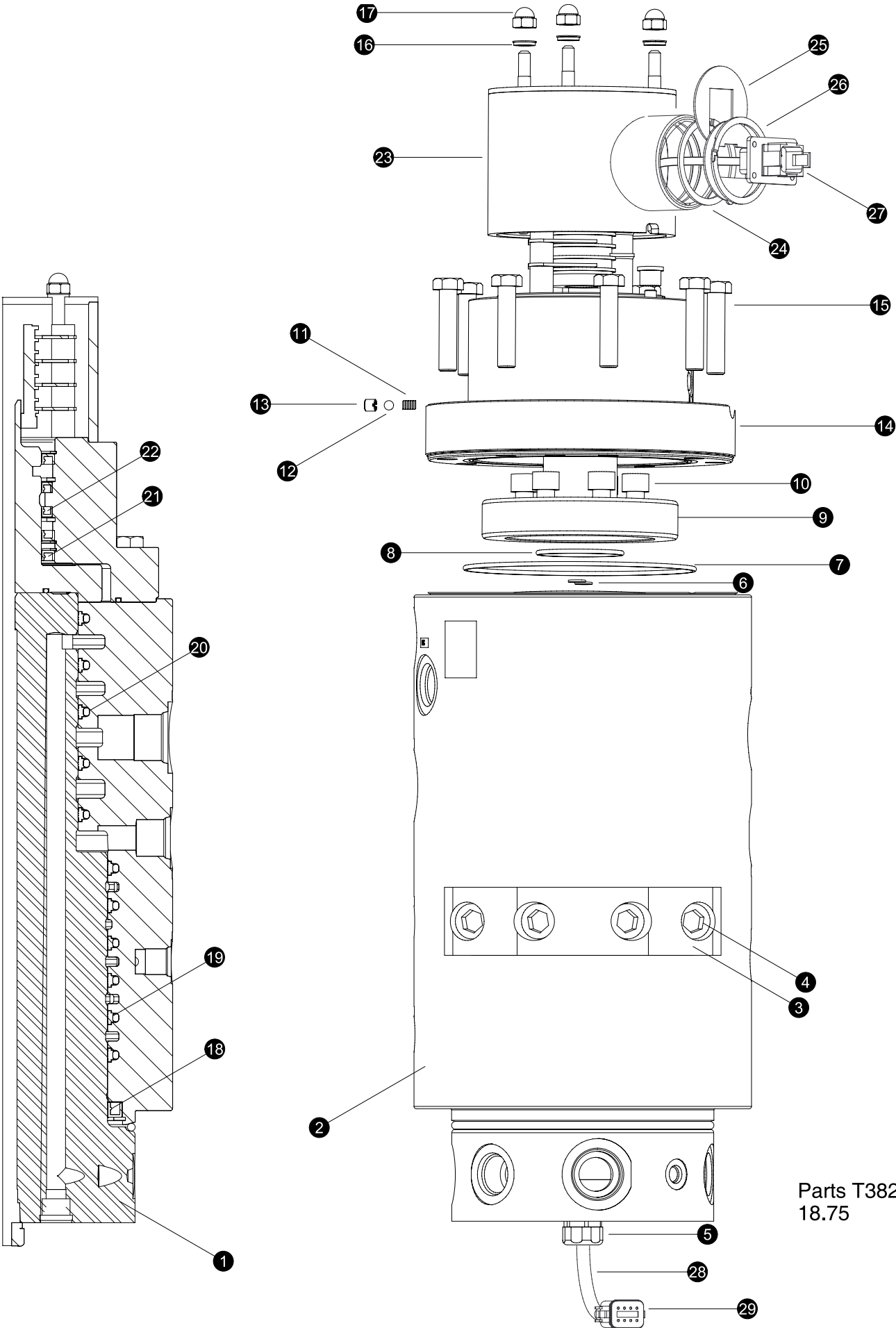
REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	46110-UP	1	DOOR, GULLWING C-SERIES (LH CAB)	
2	46627-UP	1	RUBBER, FLAP - GULL FRONT (C SERIES)	
3	46616-UP	1	BAR, RUBBER HOLD DOWN - GULL RH/LH FRONT	
4	46621-UP	1	RUBBER, FLAP - GULL SHORT SIDE	
5	46626-UP	1	RUBBER, FLAP - GULL - CENTER (C SERIES)	
6	46623-UP	1	BAR, RUBBER HOLD DOWN - GULL CENTER SHOR	
7	46625-UP	1	BAR, RUBBER HOLD DOWN - GULL CENTER	
8	46624-UP	1	BAR, RUBBER HOLD DOWN - GULL CENTER LONG	
9	46627-UP	1	RUBBER, FLAP - GULL FRONT (C SERIES)	
10	46616-UP	1	BAR, RUBBER HOLD DOWN - GULL RH/LH FRONT	
11	46622-UP	1	RUBBER, FLAP - GULL LONG SIDE	
12	46619-UP	1	BAR, RUBBER HOLD DOWN - GULL LONG SIDE	
13	53065-UP	1	LEXAN, GULLWING CAMERA/LIGHT	
14	VCCS150	1	REAR VIEW CAMERA	
15	50999-UP	1	LIGHT, - LED WORK LIGHT	



See reference page for component or assembly breakdown.



Item sold in bulk (per foot). Please specify on order amount needed.



Parts T3827 1209
18.75

UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION (Gull Wing Options)

(HYDRA DYNE ROTARY MANIFOLD)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	53605-UP	1	☐	MANIFOLD, ROTARY - 12 PORT (Hydra Dyne) (0327-present)	
1	TP121431	1		SPOOL, ROTARY -	
2	TP121432	1		BARREL, 12 PASS ROTARY -	
3	HD1214003	2		MOUNTING PLATE -	
4		8		BOLT, Allen - M16 X 40MM (202 FTLBS)	
5	HD121417	2		FITTING, Liquid tight (electrical)	
6	N1470-012	2		O-RING - 1/2" X 3/8" X 1/6"	
7	N1470-258	1		O-RING - 6 1/4" X 6" X 1/8"	
8	N1407-227	1		O-RING - 2 3/8" X 2 1/8" X 1/8"	
9	HD1414006	1		SPOOL, FUEL	
10		6		BOLT, ALLEN HEAD - 12MM-1.75P X 20MM (81 FTLBS)	
11	C0610-041-0095S	1		SPRING,	
12		1		BALL, STEEL 1/4"	
13	329-008	1		INSERT, EZ LOCK	
14	HD1414-005	1		CAP, FUEL	
15		8		BOLT, M12 X 55MM (70 FTLBS)	
16	33156	3		WASHER, SEAL	
17	70961	3		NUT, ACORN	
18	U90-363	1		ORING, URETHANE	
-	HD1014007	1		SEAL, ENVIRO 140MM	
-	WH-629	1		SPIRAL SNAP RING	
19	RN140250AR0	6		GLIDELOC SEAL	
-	N1173-70-359	6		ORING HNBR 70	
20	RN100250AR0	5		GLIDELOC SEAL	
-	N1173-70-346	5		ORING HNBR 70	
21	HD050068070	3		SEAL, ENVIRO 50MMX68X7	
-	WH-267	3		SPIRAL SNAP RING	
22	HD050065070	3		SEAL, ENVIRO 50MMX65X7	
-	WHM-256	3		SPIRAL SNAP RING	
23	54100-UP	1	☐	SLIP RING UNIT (8 WIRE)	
-	S08XP08HDT1	1		ELECTRICAL RINGS AND SHOES ASSEMBLY (8 WIRE)	
24	-UP	1		SEAL	
25	HD121419	1		PLATE, connector mount	
26	HD121420	1		PLATE, connector mount	
-	WHM-250	1		SNAP RING	
27	AD13093			RECEPTICAL, 8 - PIN (AD13096 - lock / AD13013 pins)	
28	-UP			HARNESS,	
-	HD091415	1		COVER, SLIP RING	
-	HD091412	1		CAP, TOP - SLIP RING	
29	AD13092			CONNECTOR, 8 - SOCKET (AD13097 - lock / AD1301 - sockets)	
-	-UP	1	⌘	KIT, SEAL REPAIR - ROTARY MAN - 52377	



See reference page for component or assembly breakdown.

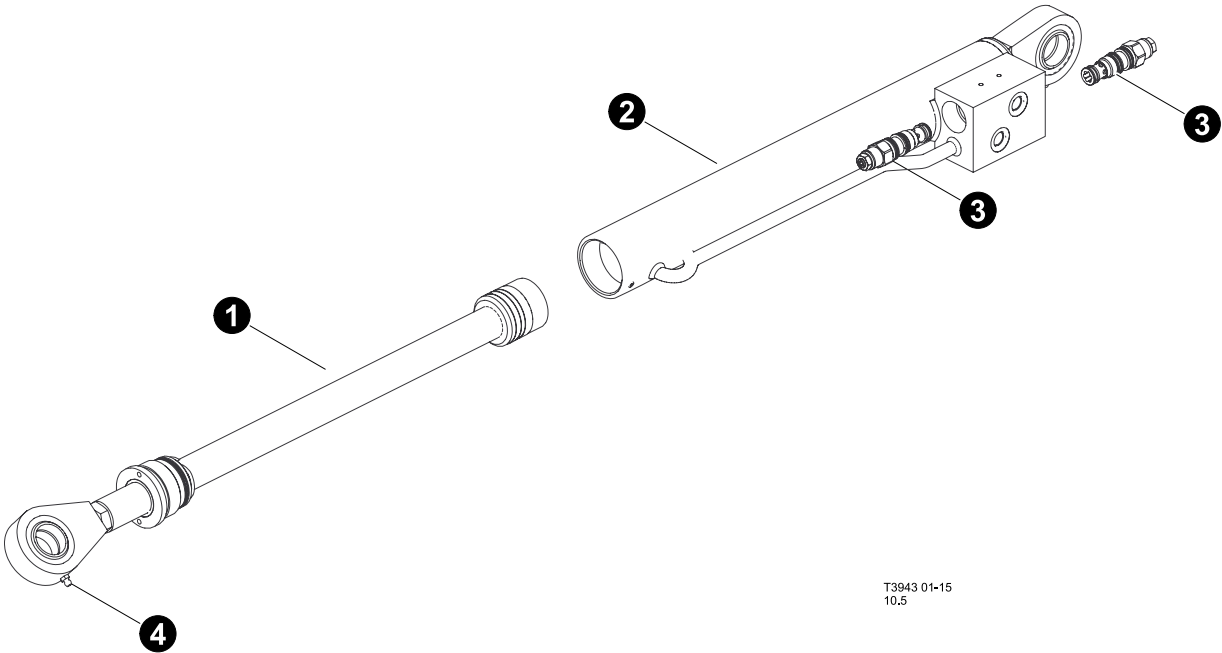


Kit or Assembly - includes all items indented underneath.



Parts Included in Seal Repair Kit.

Please contact TimberPro Dealer or Factory before attempting to disassemble or repair rotary manifold. Rotary manifolds need to be serviced by authorized TimberPro service technicians only.



T3943 01-15
10.5

UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION (Gull Wing Lift Cylinder Breakdown)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	55137-UP	1	☐	CYLINDER, GULLWING LIFT - COLUMBUS	
1		1		ROD ASSEMBLY ()	
2		1		BARREL ASSEMBLY (BRL2.00-5656)	
3		2		CARTRIDGE, COUNTER BALANCE (VAL0700)	
4		2		GREASE FITTING (ZRK2500)	
	55501-UP	1		SEAL KIT, RKT2.000-1082	

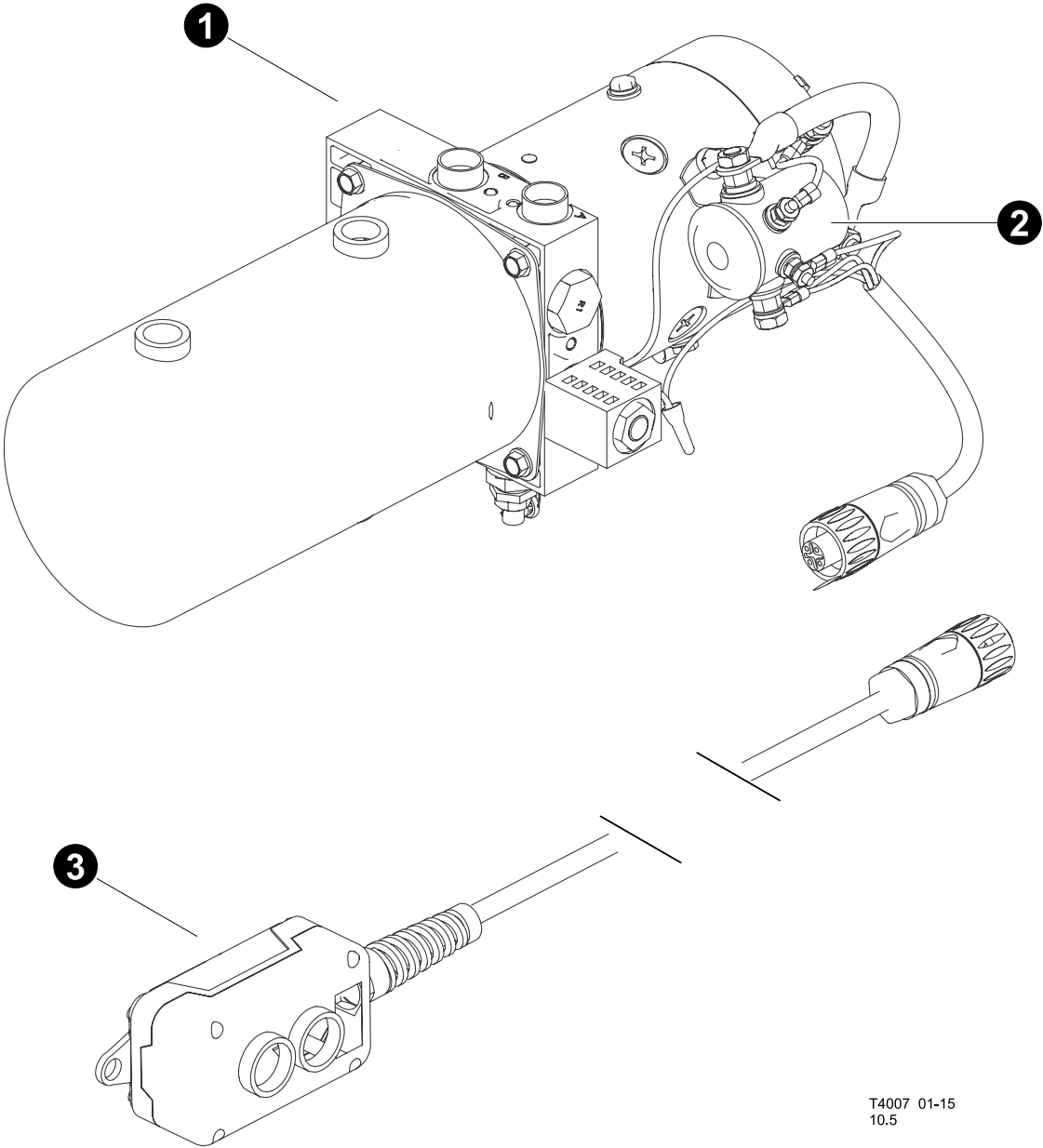


See reference page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

Please contact TimberPro Dealer or Factory before attempting to disassemble or repair rotary manifold. Rotary manifolds need to be serviced by authorized TimberPro service technicians only.



T4007 01-15
10.5

UPPER TURNTABLE GUARDS, PANELS & COVERS INSTALLATION

(Gull Wing Pump)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	51577-UP	1	☐	PUMP, POWER UNIT - GULL WING W/PENDANT	
2	K-03463	1		24VDC SOLENOID	
3	395-23	1		PENDANT w/2 buttons	



See reference page for component or assembly breakdown.



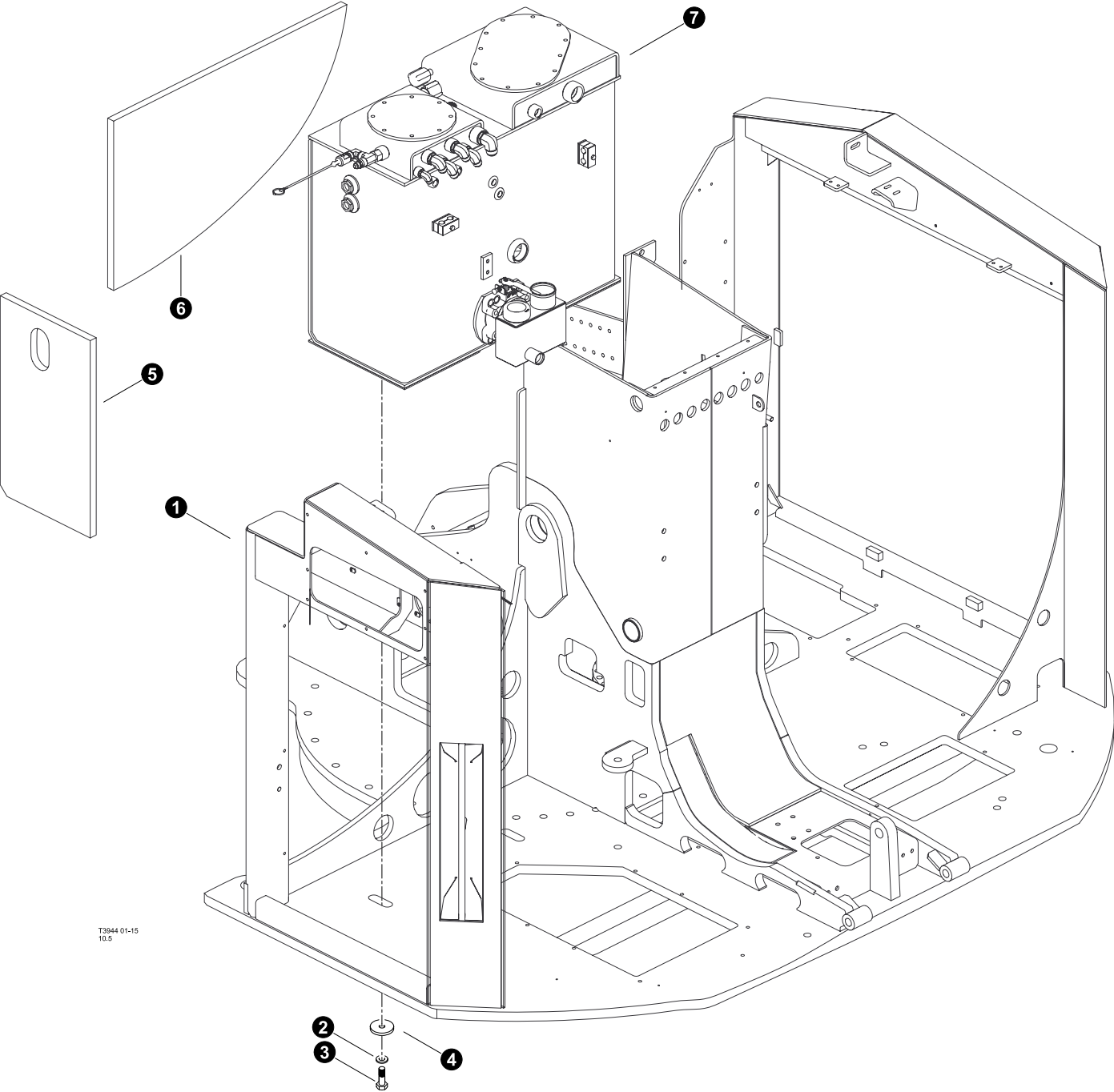
Kit or Assembly - includes all items indented underneath.

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Section UP-2

Upper Turntable - Hydraulic Tank



HYDRAULIC TANK INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		UPPER TURNTABLE WELDMENT	UP-1
2	54148-UP	2		WASHER, BURNED	
3	15681-UP	2		BOLT - .625" X 3"	
4	17918-UP	2		WASHER, isolator mount .875"	
5	46692-UP	1		FOAM, HYDRAULIC TANK - C-MODEL	
6	46652-UP	1		INSULATION, CAB TO HYD TANK	
7	REF	1		HYDRAULIC TANK ASSEMBLY	UP-2

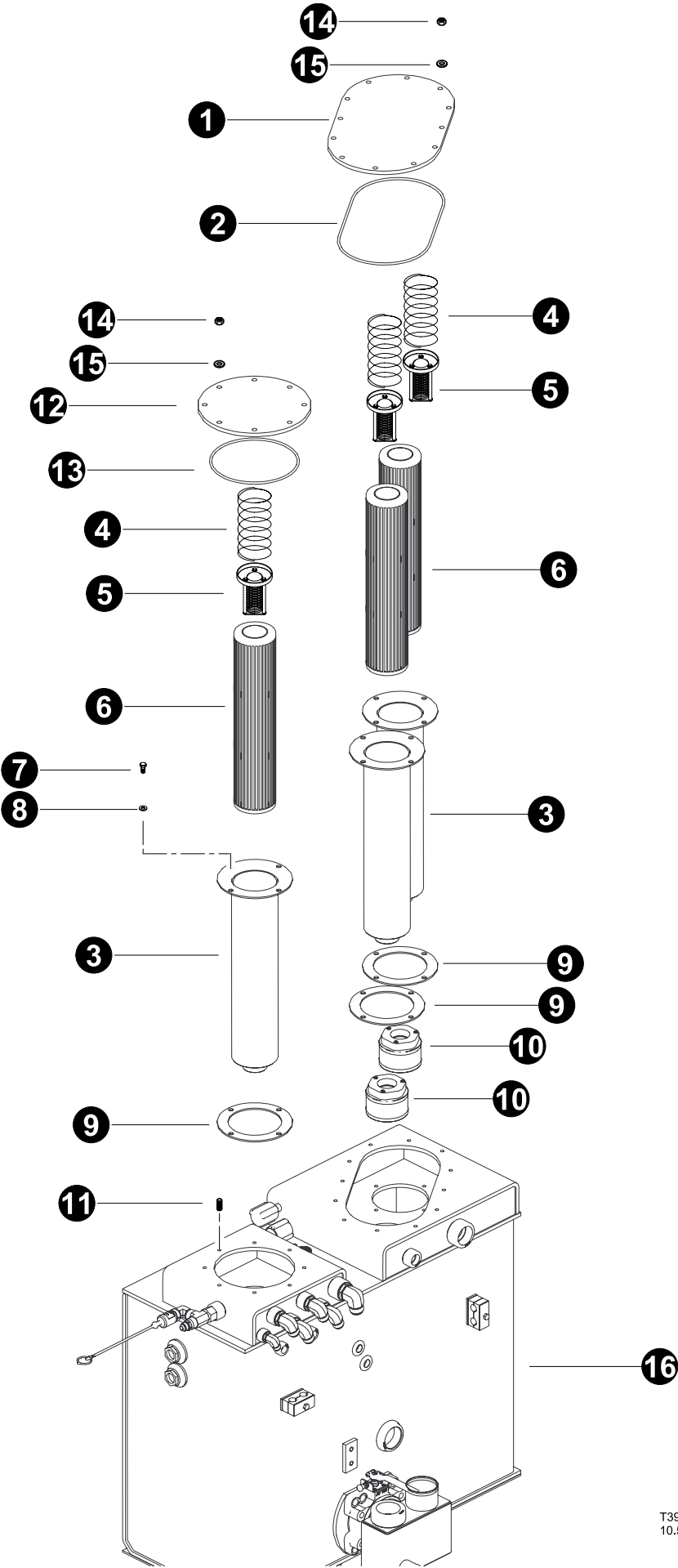


See reference page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

Please contact TimberPro Dealer or Factory before attempting to disassemble or repair rotary manifold. Rotary manifolds need to be serviced by authorized TimberPro service technicians only.



T3946 01-15
10.5

HYDRAULIC TANK FILTER ASSEMBLES

Machines 0324 - 0558 and Before

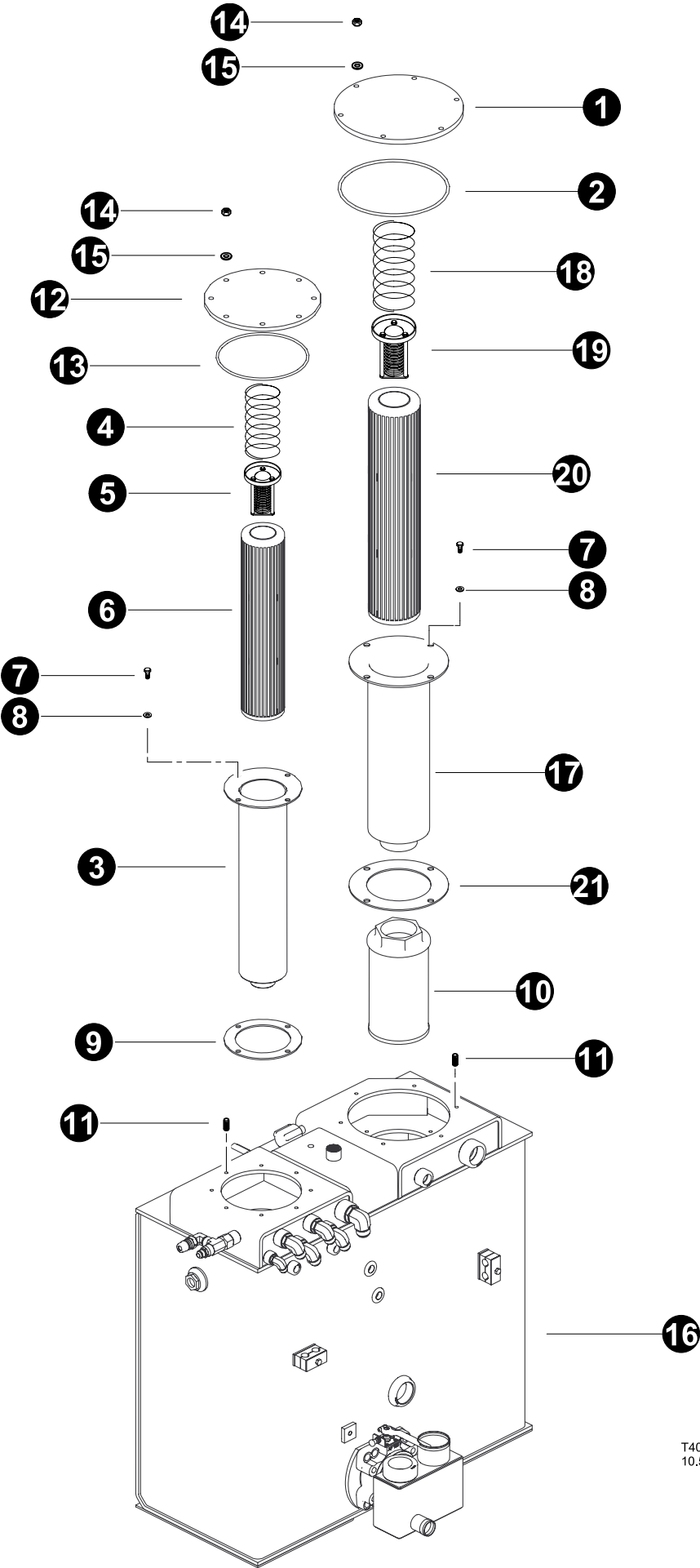
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	44738-UP	1		COVER - RETURN FILTER	
2	54417-UP	1		O-RING	
3	51621-UP	1	☐	FILTER KIT, HYD. TANK MAIN RETURN	
4		1		SPRING, CASE DRAIN FILTER	
5		1		BYPASS CHECK, CASE DRAIN FILTER	
6	22647-UP	1		ELEMENT, RETURN FILTER (Case Drain)	
7	15542-UP	8		BOLT - .375" X .75"	
8	15528-UP	8		WASHER, SAE FLAT - .375"	
9		1		SEAL, Gasket (LFT-642)	
10	54851-UP	1		DIFFUSER, RETURN LRT FILTER - C SERIES	
11	42393-UP	1		STUD - .5"-13NC X .5"-20NF X 2.0LG"	
12	44737-UP	1		COVER - CASE DRAIN	
13	15600-UP	1		O-RING - 8" DIA. -369	
14	42394-UP	10		NUT, HEX .5-20NF	
15	15534-UP	10		WASHER, SAE FLAT - .5"	
16	REF	1	☐	HYDRAULIC TANK ASSEMBLY.....	UP-2



See reference page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



T4092 06-15
10.5

HYDRAULIC TANK FILTER ASSEMBLES

Machines 0325 - 0559 and After

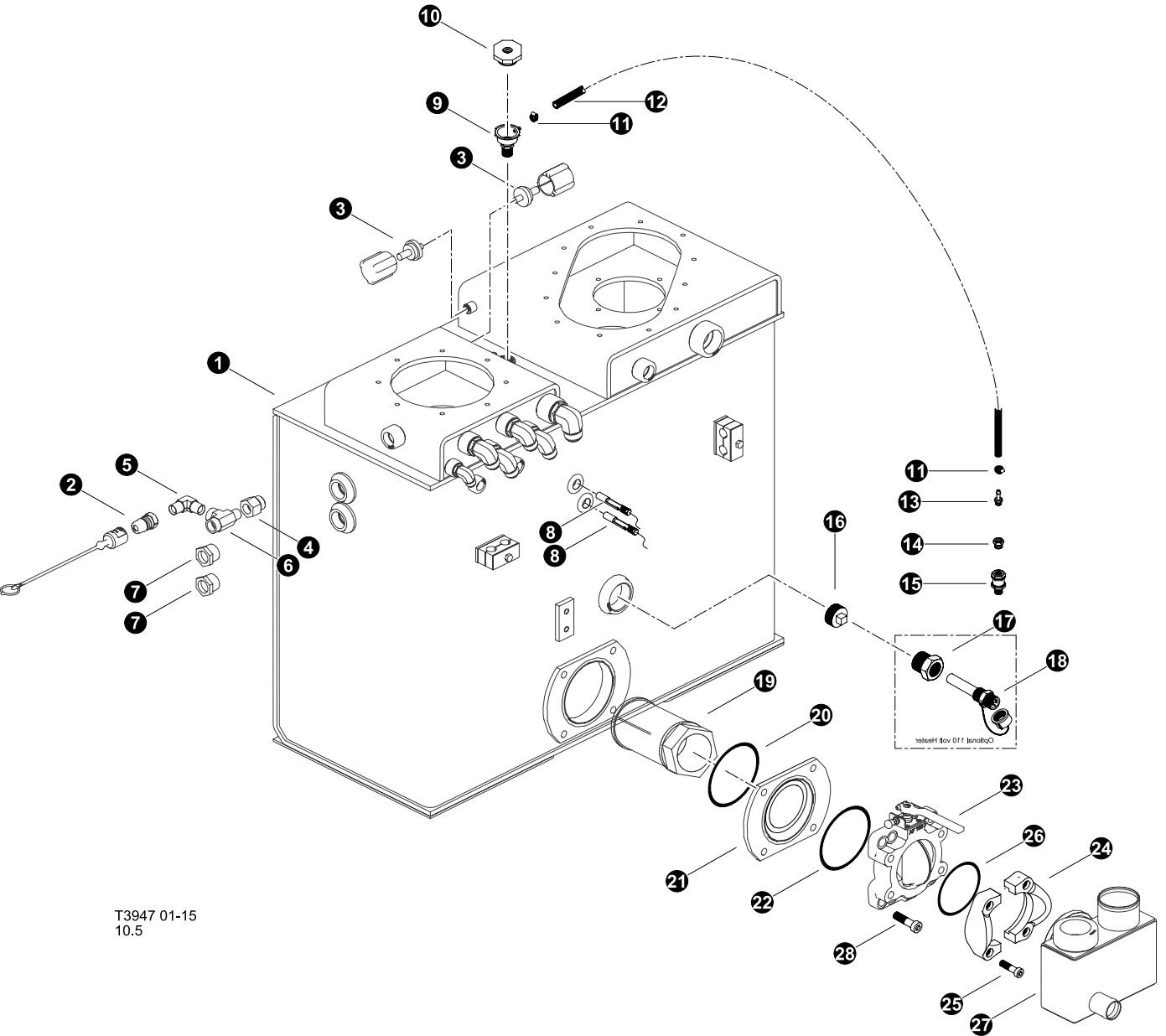
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	46568-UP	1		COVER - RETURN FILTER	
2	42310-UP	1		O-RING - 13" DIA. -382	
3	51621-UP	1	☐	FILTER KIT, HYD. TANK MAIN RETURN	
4		1		SPRING, CASE DRAIN FILTER	
5		1		BYPASS CHECK, CASE DRAIN FILTER	
6	22647-UP	1		ELEMENT, RETURN FILTER (Case Drain)	
7	15542-UP	8		BOLT - .375" X .75"	
8	15528-UP	8		WASHER, SAE FLAT - .375"	
9		1		SEAL, Gasket (LFT-642)	
10	51624-UP	1		DIFFUSER, RETURN LRT FILTER - C SERIES	
11	42393-UP	1		STUD - .5"-13NC X .5"-20NF X 2.0LG"	
12	44737-UP	1		COVER - CASE DRAIN	
13	15600-UP	1		O-RING - 8" DIA. -369	
14	42394-UP	10		NUT, HEX .5-20NF	
15	15534-UP	10		WASHER, SAE FLAT - .5"	
16	REF	1	☐	HYDRAULIC TANK ASSEMBLY.	UP-2
17	51620-UP	1	☐	FILTER KIT, HYD. TANK MAIN RETURN	
18	BFT-162	1		COMPRESSION SPRING	
19	A-LFT-843	1		BYPASS VALVE	
20	52350-UP	1		ELEMENT, MAIN RETURN HYD TANK	
21	-UP	1		SEAL, Gasket	



See reference page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



T3947 01-15
10.5

HYDRAULIC TANK ASSEMBLY

Hydraulic Tank Components installation

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	46150-UP	1		WELDMENT, HYDRAULIC TANK - SHORT (C SERIES SN 0324 - 0558 and Before)	
1	47171-UP	1		WELDMENT, HYDRAULIC TANK - TALL (C SERIES SN 0325 - 0559 and After)	
2	17307M-UP	1		QUICK DISCONNECT - .5" (MALE)	
-	17323F-UP	1		COVER, DUST - QUICK DISCONNECT (FEMALE)	
3	51764-UP	2		SWITCH, PRESSURE - SCHROEDER (830/630)	
4	16805-UP	1		BUSHING, REDUCER - 6405-12-8	
5	17487-UP	1		ELBOW, 90 - 5500-8	
6	-UP	1		TEE - 8	
7	24308-UP	2		SIGHT GLASS	
8	51379-UP	2		SWITCH, HYD. OIL LEVEL .50 NPT GEMS	
-	24531-UP	1		TRANSDUCER, HYD TEMP (IQAN SYSTEM)	
9	17156-UP	1		STEM, HYDRAULIC TANK RELIEF CAP	
10	18135-UP	1		CAP, HYD. RESERVOIR RELIEF - 13 PSI	
11	16202-UP	1		CLAMP, HOSE - WORM STYLE - .625"	
12	16238-UP	5 ft	✂	HOSE, FUEL LINE (BULK ROLL) - .3125"	
13	16990-UP	1		CONNECTOR, STR HOSE BARB - 4244-5-4	
14	11318-UP	1		BUSHING, REDUCER - 5406-6-4	
15	15652-UP	1		VALVE, CHECK - HYDRAULIC/FUEL TAN	
16	53105-UP	1		PLUG, BLACK PIPE - 2.0" HYD. TANK 830/630	
17	26397-UP	1		BUSHING, BLACK - 2" X 1.25"	
18	20069-UP	1		ELEMENT, HEATER - HYD. TANK (120V 600W) (OPTIONAL)	
19	15842-UP	1		FILTER, SCREEN - IMPLEMENT	
20	51726-UP	1		O-RING, HDYRAULIC TANK	
21	42306-UP	1		PLATE, INTER.-SUCTION PORT 100mm VALVE	
22	51726-UP	1		O-RING, HDYRAULIC TANK	
23	54786-UP	1		VALVE, SHUT OFF - BUTTERFLY (4")	
24	51625-UP	1	☐	KIT, FLANGE - SUCTION TUBE (4")	
25	-UP	4		BOLT	
26	-UP	1		O-RING	
27	46200-UP	1		WELDMENT, SUCTION TUBE, C-MODEL	
28	18918-UP	4		BOLT, ALLEN HEAD - .5" X 2.5"	



See reference page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Sold in bulk per foot - Please specify length when ordering.

HYDRAULIC TANK

Hydraulic Tank Return Line to Oil Cooler

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		HYDRAULIC TANK ASSEMBLY.	UP-2
2	22319-UP	1		CONNECTOR, STR JIC 24	
4	55166-UP	1		CONNECTOR, STR - 848-TTO-24X24	
3	54714-UP	1		ELBOW, 90 SWIVEL 24C6X-S (24 JICMF)	
5	53183-UP	1		FITTING, SWIVEL NUT RUN TEE #24	
6	55342-UP	1		FITTING, ELBOW - 45DEG - 24 V5OX-S	
7	53180-UP	1		FITTING, REDUCER TUBE END - 24-12	
8	15472-UP	1		ELBOW, 45 SWIVEL - 12 V6X-S	
9	55623-UP	1		TUBELINE, SPIKE TO LOWER TUBE - C MODEL	
10	11306-UP	1		ELBOW, 90 12 C5OX-S	
11	REF	1		HYDRAULIC OIL COOLER / RADIATOR ASSEMBLY.	UP-3
12	55370-UP	1		FITTING, ELBOW - 2702-24-24	
13	46246-UP	1		PLATE, BULKHEAD - COOLER	
14	-UP	1		HOSE ASSEMBLY - 2038-24JS-24JS	

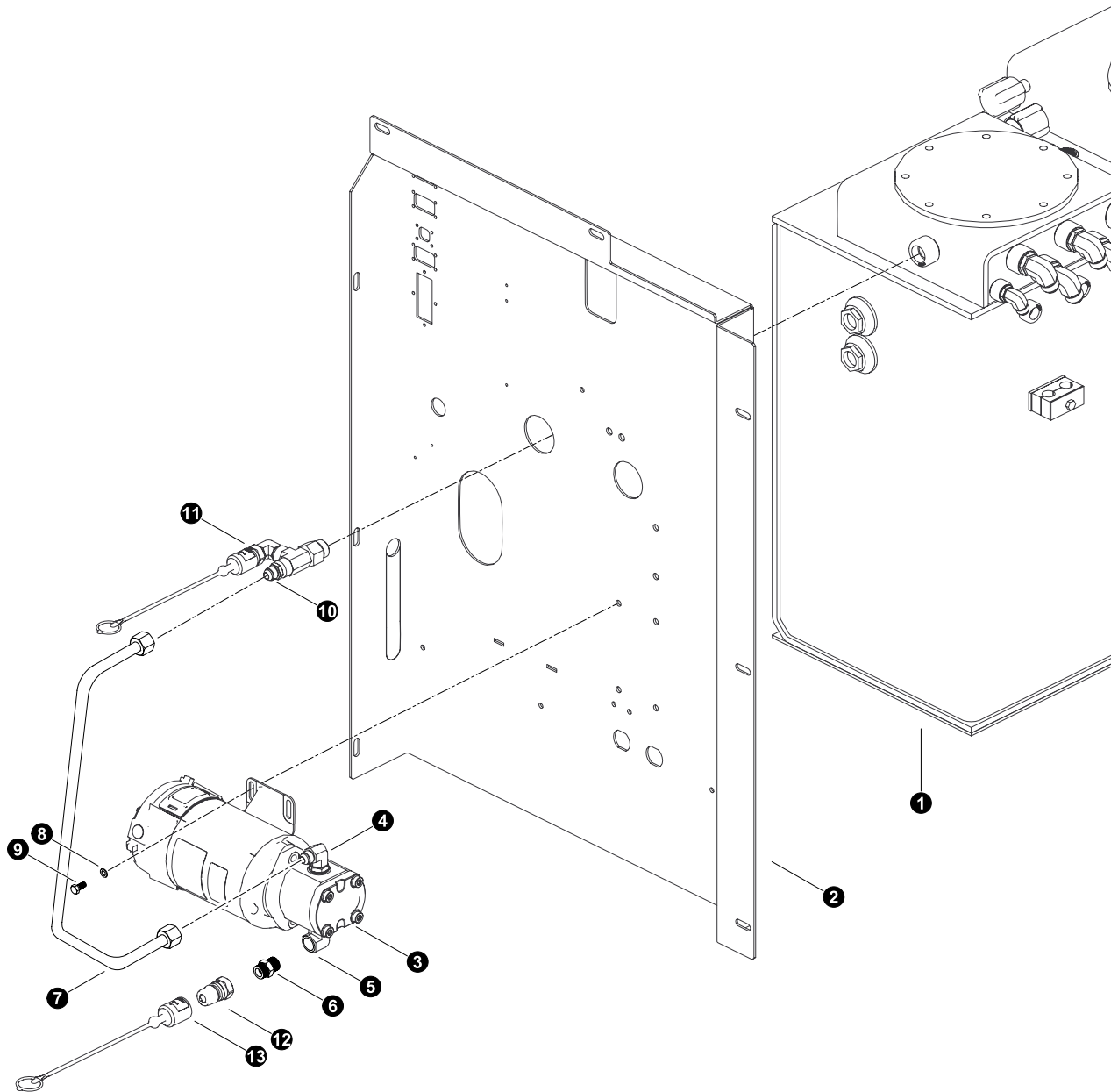


See reference page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

Please contact TimberPro Dealer or Factory before attempting to disassemble or repair rotary manifold. Rotary manifolds need to be serviced by authorized TimberPro service technicians only.



HYDRAULIC TANK

(Standard Hydraulic Tank Fill Pump System)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		HYDRAULIC TANK ASSEMBLY.	UP-2
2	46037-UP	1		WELDMENT, ELEC PANEL, C-MODEL	
3	REF	1		FILL PUMP ASSEMBLY.	UP-2
4	15482-UP	1		ELBOW, 90 - 6801-10-8	
5	22383-UP	1		ELBOW, 90 - 12 AOEG5-S	
6	54998-UP	1		FITTING, FILL PUMP - C-MODEL	
7	55164-UP	1		TUBELINE, FILL PUMP / TANK - C SERIES	
8	15542-UP	4		BOLT - .375" X .75"	
9	15528-UP	4		WASHER, SAE FLAT - .375"	
10	-UP	1		CONNECTOR, STR - 2404-8-8	
11	17307M-UP	1		QUICK DISCONNECT - .5" (MALE)	
12	55620-UP	1		NIPPLE, 60 SERIES - H6-63-T12	
13	55617-UP	1		CAP, QUICK CONNECT - RUBBER (RED)	



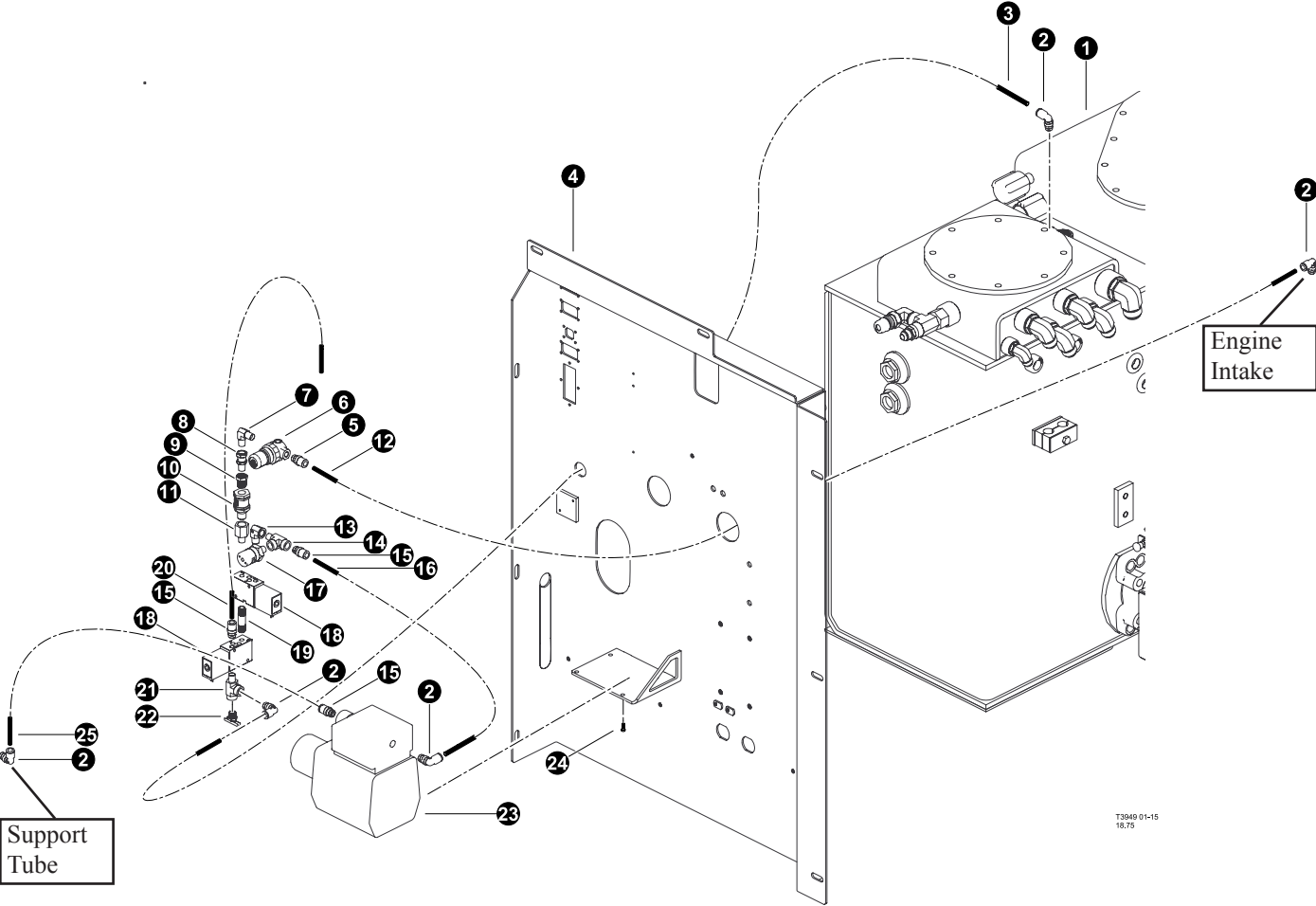
See reference page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Sold in bulk per foot - Please specify length when ordering.



HYDRAULIC TANK

(Hydraulic Tank Vent / Vacuum System)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		HYDRAULIC TANK ASSEMBLY.....	UP-2
2	51739-UP	4		CONNECTOR, ELBOW -PUSH ON (VACUUM)	
3	51738-UP	ft		HOSE, 3/8" PUSH ON - VACUUM PUMP	
4	46037-UP	1		WELDMENT, ELEC PANEL, C-MODEL	
5	52506-UP	2		CONNECTOR, STR - PUSH HOSE 3/8 (VACUUM)	
6	15649-UP	1		REGULATOR, TURBO BOOST	
7	52741-UP	1		ELBOW, MALE PIPE - 1/4 CR-S	
8	11331-UP	1		CONNECTOR, STR SWIVEL - 1404-4-4	
9	11318-UP	1		BUSHING, REDUCER - 5406-6-4	
10	15652-UP	1		VALVE, CHECK - HYDRAULIC/FUEL TANK	
11	52145-UP	1		ADAPTER, EXPANDER - 3/8 X 1/4 FG-S	
12	51738-UP	ft		HOSE, 3/8" PUSH ON - VACUUM PUMP	
13	21147-UP	1		ELBOW, 90 STREET .25" NPT - BRASS	
14	10393-UP	1		TEE - 5602-4	
15	52506-UP	2		CONNECTOR, STR - PUSH HOSE 3/8 (VACUUM)	
16	51738-UP	ft		HOSE, 3/8" PUSH ON - VACUUM PUMP	
17	51737-UP	1		SWITCH, PRESSURE - VACUUM PUMP (HYD TANK)	
18	51616-UP	2		VALVE, VACUUM PUMP - HYD TANK	
19	16314-UP	1		NIPPLE, PIPE - .25" X 2"	
20	51738-UP	ft		HOSE, 3/8" PUSH ON - VACUUM PUMP	
21	10393-UP	1		TEE - 5602-4	
22	53108-UP	1		VALVE, TANK VENT - DC602-6	
23	REF.	1		PUMP, VACUUM - HYD TANK.....	UP-2
24	16129-UP	4		SCREW, MACHINE - #10-24 X .75"	
25	51738-UP	ft		HOSE, 3/8" PUSH ON - VACUUM PUMP	



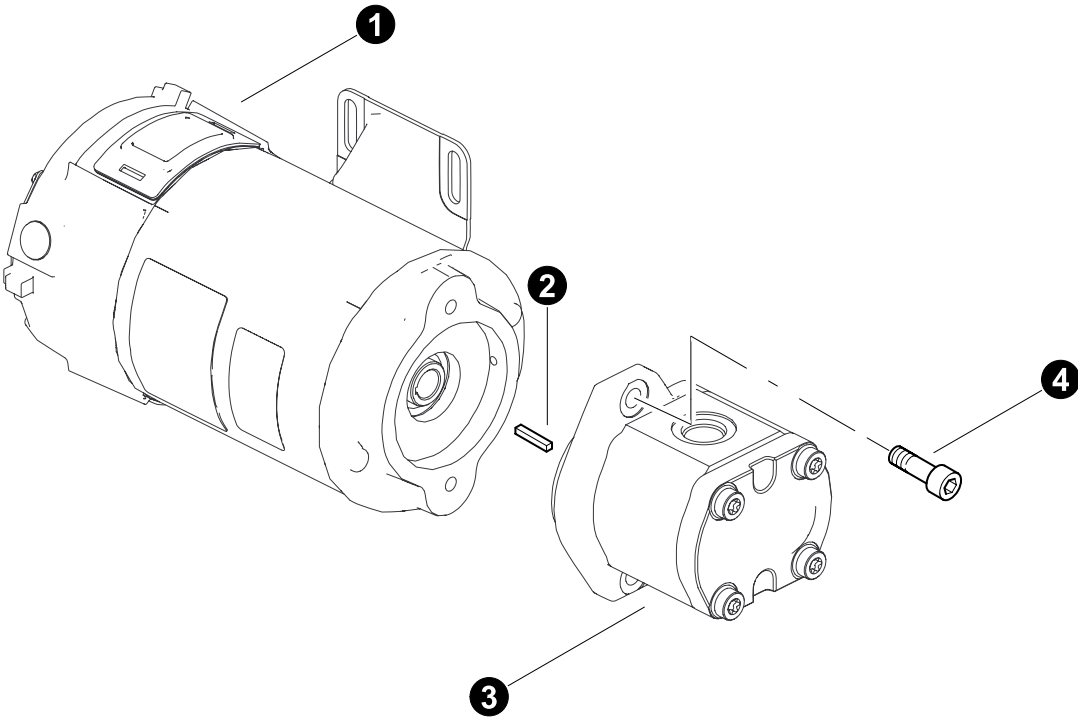
See reference page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Sold in bulk per foot - Please specify length when ordering.



T3950 01/15

HYDRAULIC FILL PUMP BREAKDOWN

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	-UP	1	☐	ASSEMBLY - HYDRAULIC FILL PUMP with COOLER LOOP	
1	51503-UP	1		MOTOR, HYD OIL FILL (ELECTRIC) - 24V	
2	-UP	1		KEY,	
3	16800-UP	1		PUMP, electric hydraulic oil fill	
4	-UP	2		BOLT, ALLEN HEAD - .375" X 1"	



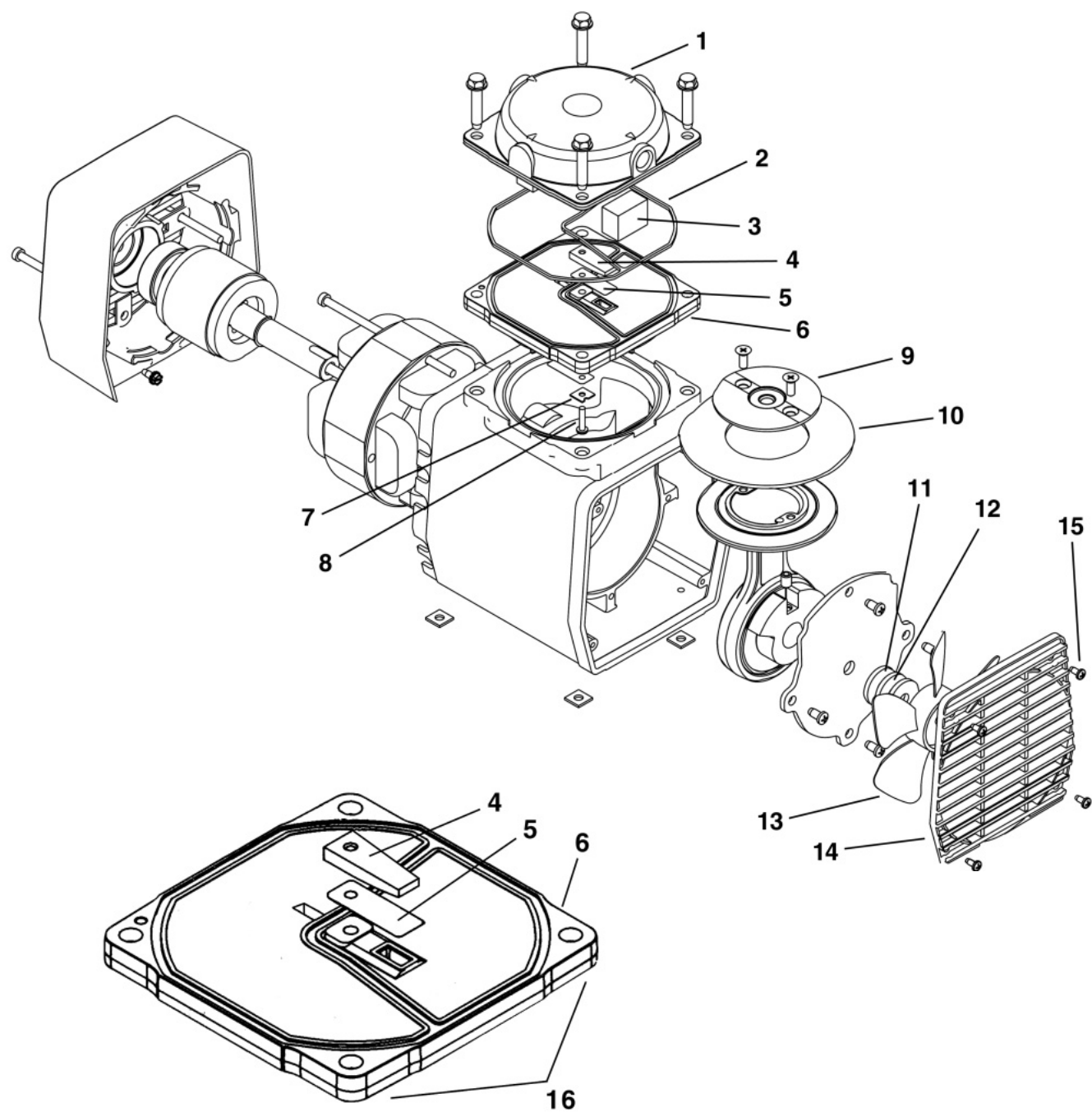
See reference page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Sold in bulk per foot - Please specify length when ordering.



VACUUM PUMP BREAKDOWN

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	51615-UP	1	☐	VACUUM PUMP	
1	-UP	1		HEAD (AP500)	
2	-UP	1		O-RING, HEAD (AP513)	
3	-UP	2		FILTER, MUFFLER (AT712A)	
4	-UP	1		VALVE, LIMITER (AP110)	
5	-UP	2		VALVE, LEAF (AF817)	
6	-UP	1		PLATE, VALVE (AP504)	
7	-UP	1		RETAINER, VALVE (AF819A)	
8	-UP	1		SCREW, VALVE (BB330A)	
9	-UP	1		PLATE, RETAINER (AF809)	
10	-UP	1		DIAPHRAGM, COMPRESSOR (AF818A)	
10	-UP	1		DIAPHRAGM, VACUUM (AF818B)	
11	-UP	3		SPACER, FELT (AA929)	
12	-UP	1		SPACER (AD996)	
13	-UP	1		FAN (AF533)	
14	-UP	1		GRILL (AF807)	
15	-UP	4		RIVET (AP534)	
16	-UP	1		ASSEMBLY, VALVE PLATE (AP519)	



See reference page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

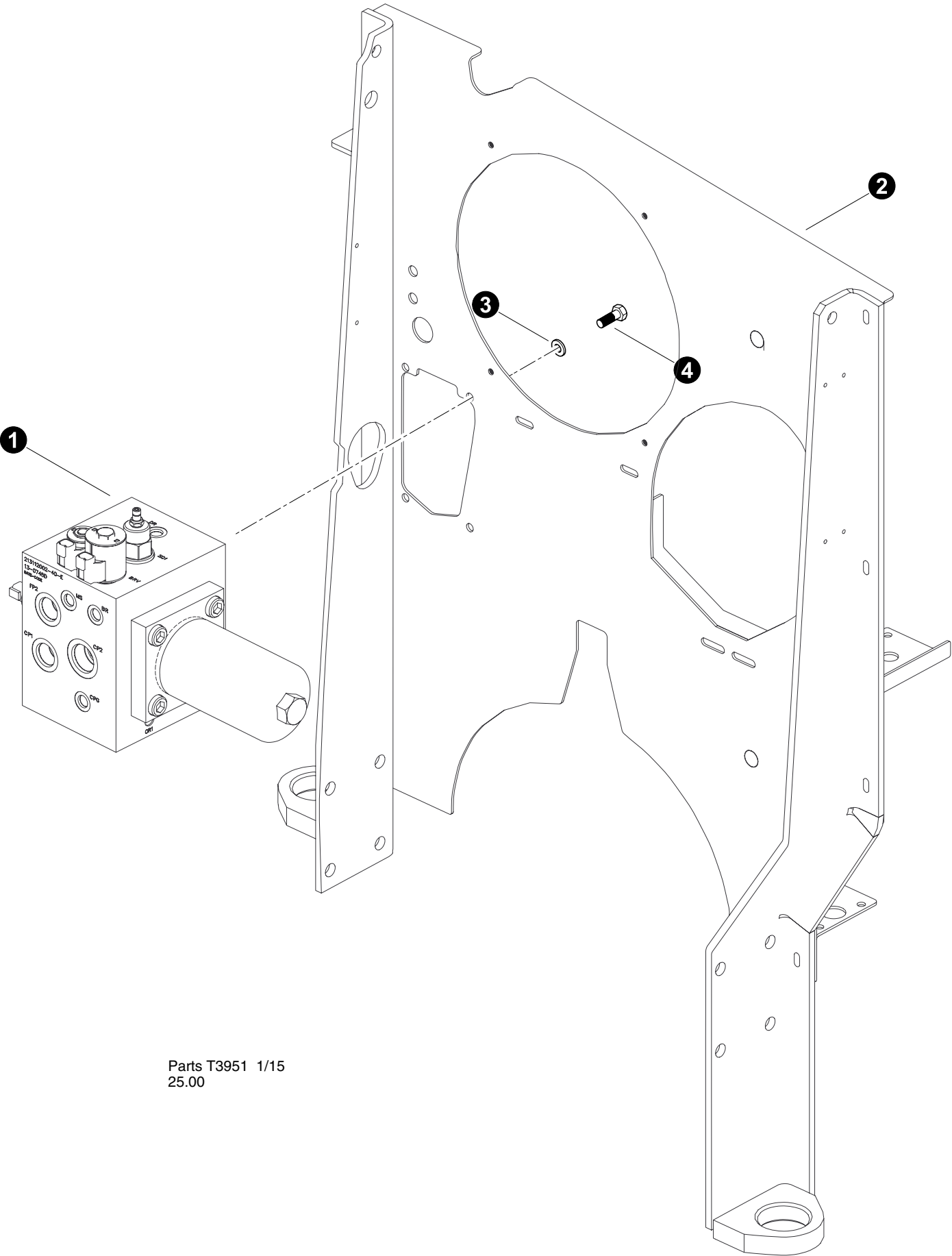


Sold in bulk per foot - Please specify length when ordering.

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Section UP-3

Upper Turntable - Radiator and Oil Cooler Fan Drive System



Parts T3951 1/15
25.00

RADIATOR AND COOLER FAN CIRCUIT**Charge Manifold installation**

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	REF	1	VALVE, CHARGE MANIFOLD	UP-3
2	REF	1	BARRIER, ENGINE - C MODEL	EE
3	15528-UP	3	WASHER, SAE FLAT - .375"	
4	11707-UP	4	BOLT - .375" X 1"	



See referenced page for component or assembly breakdown.



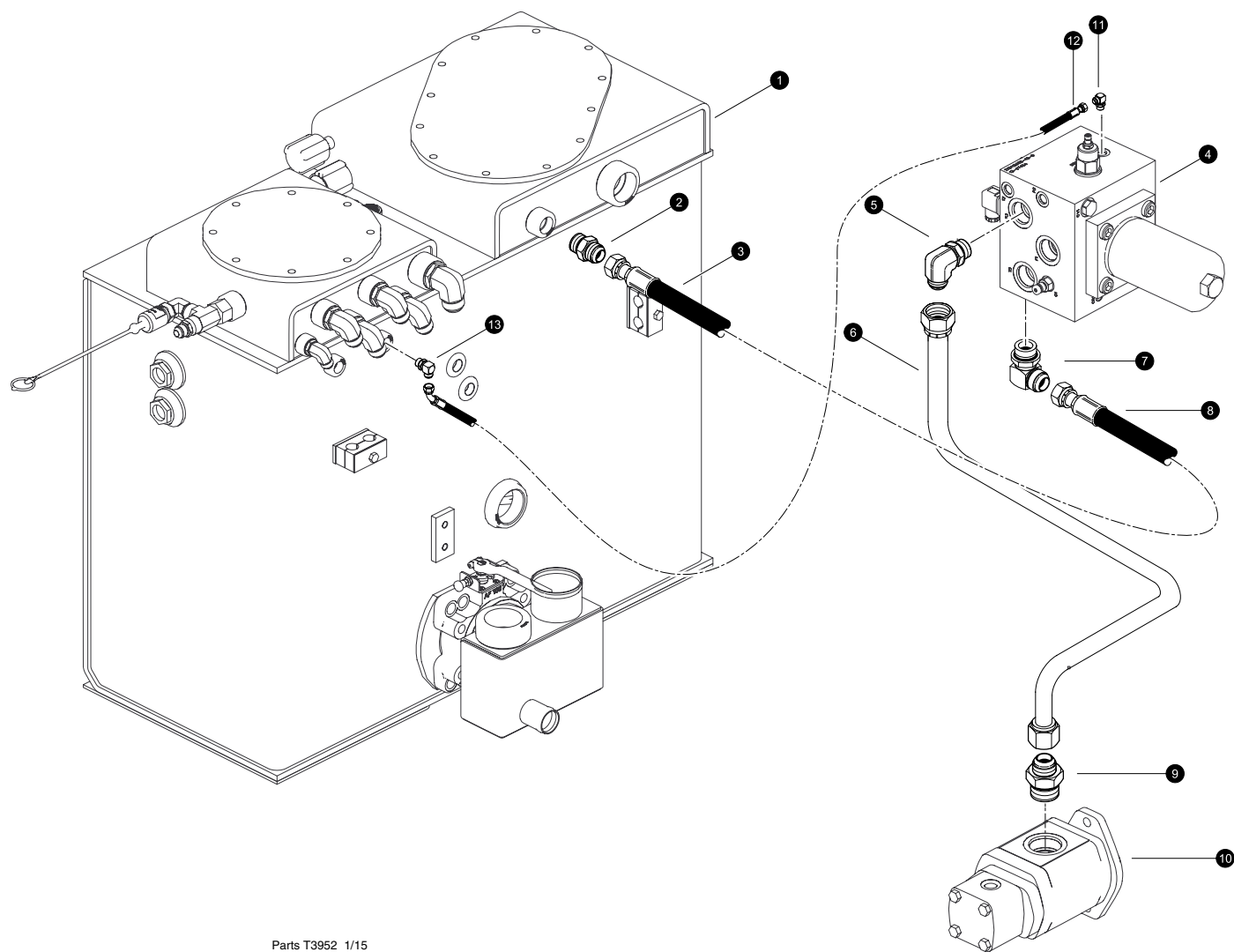
Kit or Assembly - includes all items indented underneath.

Note #1:

Use Loctite 271 (*red*) during installation.

Note #2:

Use Loctite 272 (*blue*) during installation.



RADIATOR AND COOLER FAN CIRCUIT**Charge Manifold Pressure and Tank Connections**

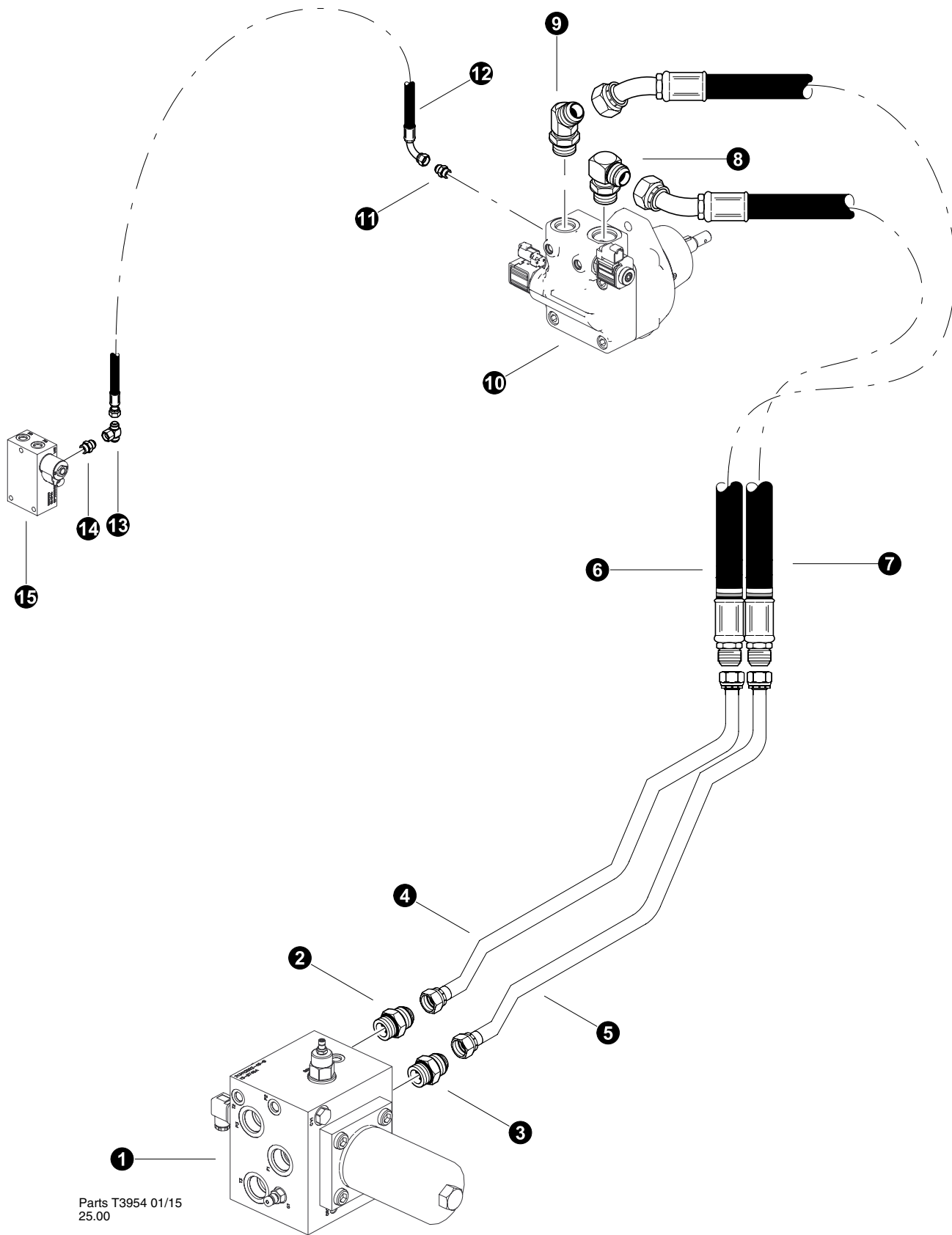
REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	REF	1	HYDRAULIC TANK ASSEMBLY.....	UP-2
2	11324-UP	1	CONNECTOR, STR - 6400-12	
3	-UP	1	HOSE ASSEMBLY - 2023 12 12JS 12JS (T3 port to Hyd Tank Return)	
4	REF	1	FAN CONTROL MANIFOLD.....	UP-3
5	15484-UP	1	ELBOW, 90 - 16 C5OX-S	
6	55160-UP	1	TUBELINE , CHRG PUMP TO CHRG FILTER P3	
7	11306-UP	1	ELBOW, 90 12 C5OX-S	
8	-UP	1	HOSE ASSEMBLY - 2023 12 12JS 12JS (T3 port to Hyd Tank Return)	
9	15498-UP	1	CONNECTOR, STR - 6400-16-20	
10	REF	1	TRACK DRIVE CHARGE PUMP	WD-3
10	52971-UP	1	ELBOW, 90 - 16 CC5OX JIC/ORB (LONG)	
11	15480-UP	1	ELBOW, 90 - 6801-6	
12	-UP	1	HOSE ASSEMBLY - 2055 06-06JS 06J4 (Charge Manifold DR to Tank)	
13	53145-UP	1	FITTING, 6-8 C5OX-S - JIC	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



RADIATOR AND COOLER FAN CIRCUIT**Oil Cooler Fan Motor Pressure and Tank**

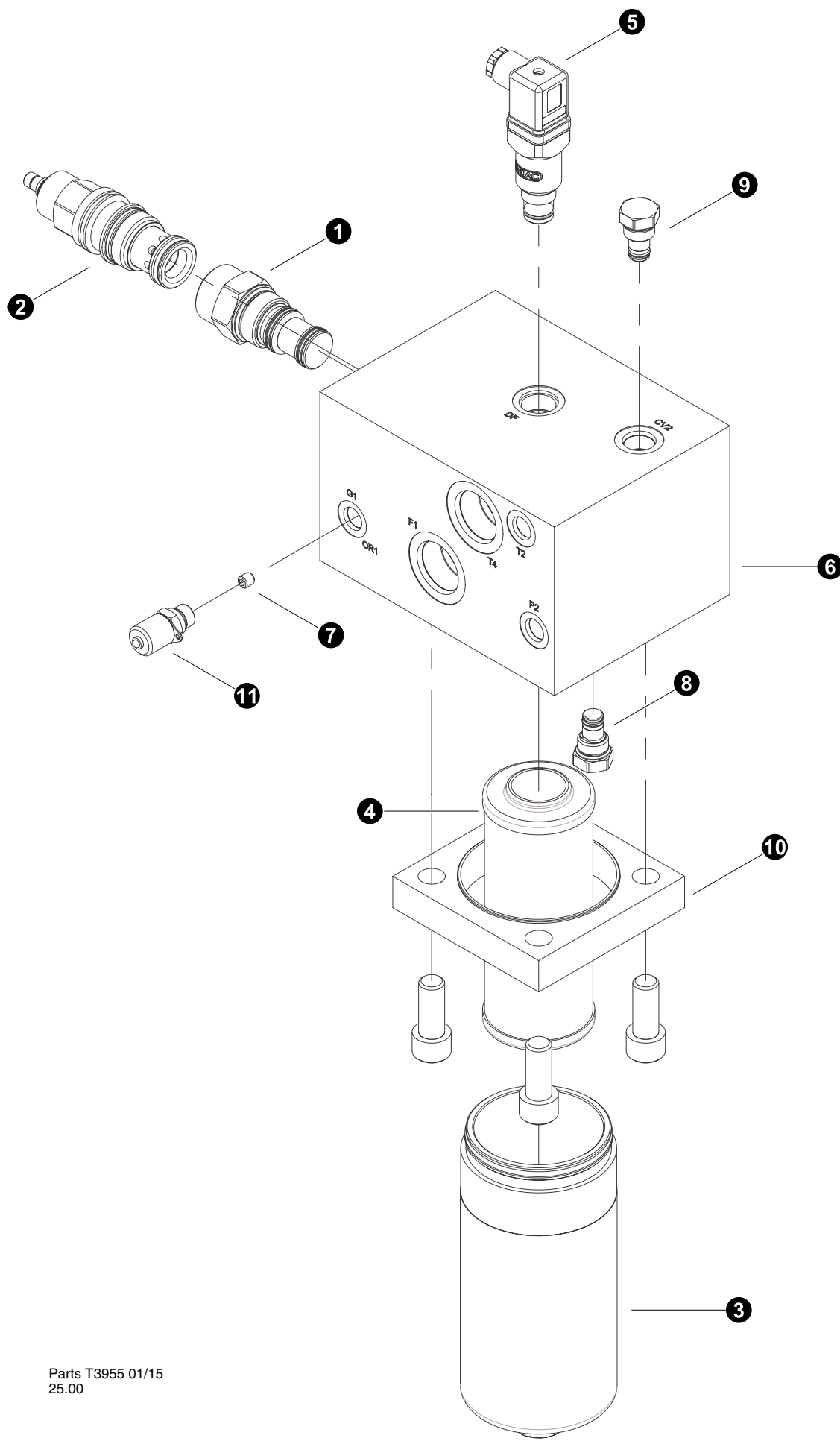
REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	REF	1	FAN CONTROL MANIFOLD.	UP-3
2	15497-UP	1	CONNECTOR, STR - 16 F5OX-S	
3	15497-UP	1	CONNECTOR, STR - 16 F5OX-S	
4	55176-UP	1	TUBELINE, CHARGE MAN P4 TO FAN MTR P (Cummins)	
-	55517-UP	1	TUBELINE, CHARGE MAN P4 TO FAN MTR P (Volvo)	
5	55175-UP	1	TUBELINE, CHARGE MAN P1 TO FAN MTR T (Cummins)	
-	55518-UP	1	TUBELINE, CHARGE MAN P1 TO FAN MTR T (Volvo)	
6	-UP	1	HOSE ASSEMBLY - 2020 12 12J4 16MJ (Fan Motor Pressure - Cummins)	
-	-UP	1	HOSE ASSEMBLY - 2024 12 12J4 16MJ (Fan Motor Pressure - Volvo)	
7	-UP	1	HOSE ASSEMBLY - 2018 16 12J4 16MJ (Fan Motor Return - Cummins)	
-	-UP	1	HOSE ASSEMBLY - 2022.5 16 12J4 16MJ (Fan Motor Return - Volvo)	
8	15484-UP	1	ELBOW, 90 - 16 C5OX-S	
9	15474-UP	1	ELBOW, 45 - 6802-12	
10	REF	1	FAN DRIVE MOTOR	UP-3
11	15488-UP	1	CONNECTOR, STR - 6400-6	
12	-UP	1	HOSE ASSEMBLY - 2072 -06 06JS 06J9 (Fan Drain to Drain Manifold)	
13	-UP	1	TEE - 6 JIC	
14	53103-UP	1	FITTING, 6-8 - ORB-JIC	
15	REF	1	DRAIN MANIFOLD (SWING BRAKE)	FH-LH-HH



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

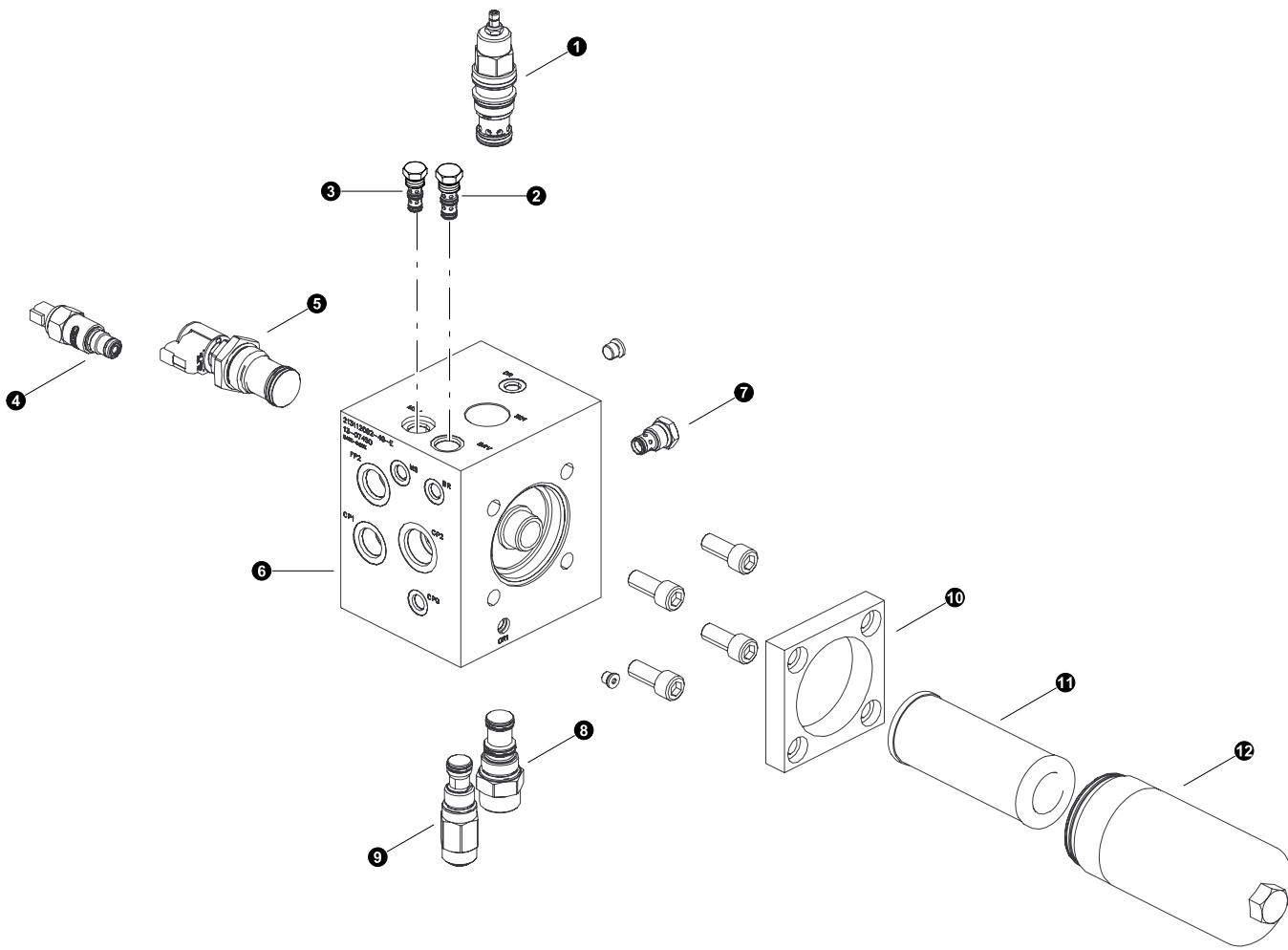


Parts T3955 01/15
25.00

RADIATOR AND COOLER FAN CIRCUIT**Charge Manifold Breakdown
Single Charge Pump**

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	55146-UP	1	☐	MANIFOLD, CHARGE / COOLER LOOP - C SERIES	
1	-UP	1		CARTRIDGE, HYDRAFORCE (EP16-S35T-0-N-90)	
2	-UP	1		CARTRIDGE, HYDRAFORCE (RSHC-LDN)	
3	19864-UP	1	☐	CANISTER	
-	19863-UP	1		O-RING, canister	
-	19862-UP	1		RING, back-up - canister	
4	19861-UP	1		ELEMENT, hydrostatic charge filter (0240D020BN4HC)	
5	17675-UP	1		SWITCH, filter indicator (VM5C.0)	
6	-UP	1		BLOCK, Manifold (213071001-40)	
7	-UP	1		0.8mm ORIFICE	
8	-UP	1		CARTRIDGE, HYDRAFORCE (CV08-20-0-N-4)	
9	-UP	1		CARTRIDGE, HYDRAFORCE (CV08-20-0-N-60)	
10	-UP	1		FLANGE, Filter canister (205022401-40-B)	
11	-UP	1		TEST PORT (06007030)	

☐ Kit or assembly. Includes all items indented underneath.



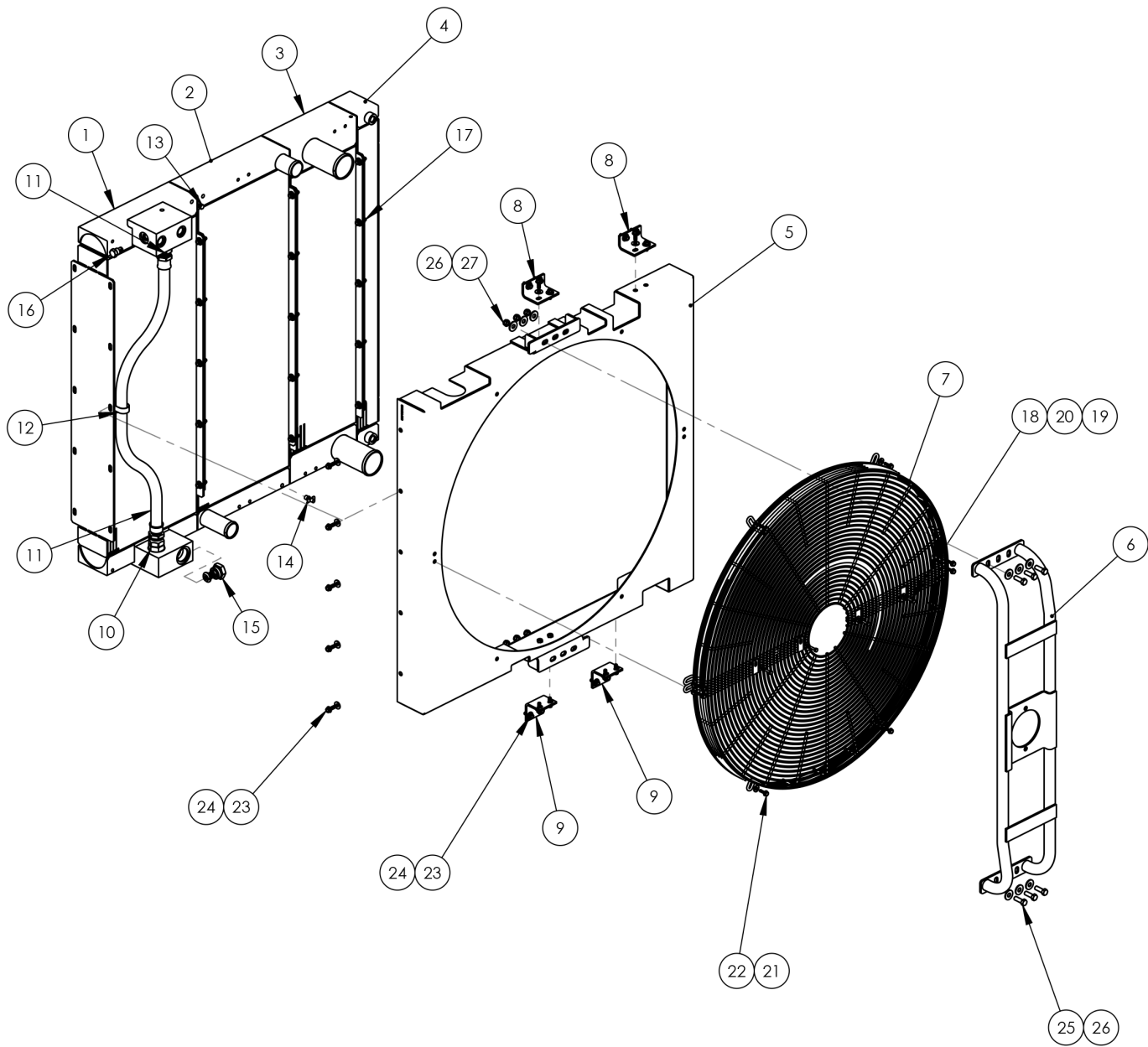
Parts T4254 12/16
25.00

RADIATOR AND COOLER FAN CIRCUIT

Charge Manifold Breakdown Dual Charge Pump Model

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	57615-UP	1	☐	MANIFOLD, CHARGE / COOLER LOOP - DUAL FLOW	
1	-UP	1		CARTRIDGE, HYDRAFORCE (RSHC-LAN)	
2	-UP	1		CARTRIDGE, PLUG	
3	-UP	1		CARTRIDGE, PLUG	
4	-UP	1		SWITCH, filter indicator VD_CD	
5	-UP	1		CARTRIDGE, HYDRAFORCE (SF20-23-0-N-24ERZ)	
-	4304024-UP	1		COIL, 24VDC	
-	7004400-UP	1		NUT 7004400	
6	-UP	1		BLOCK, Manifold (213071001-40)	
7	-UP	1		CARTRIDGE, HYDRAFORCE (CV10-20-0-N-05)	
8	-UP	1		CARTRIDGE, HYDRAFORCE (EP16-S35T-0-N-90)	
9	-UP	1		CARTRIDGE, HYDRAFORCE (RV12-26F-0-N-15/15)	
10	-UP	1		FLANGE, Filter canister (205022401-40-B)	
11	19861-UP	1		ELEMENT, hydrostatic charge filter (0240D020BN4HC)	
12	19864-UP	1	☐	CANISTER	
-	19863-UP	1		O-RING, canister	
-	19862-UP	1		RING, back-up - canister	

☐ Kit or assembly. Includes all items indented underneath.



RADIATOR AND COOLER FAN CIRCUIT**Radiator / Oil Cooler Breakdown**

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	55503-UP	1	☐	RADIATOR / OIL COOLER - TIER 4F LH (AKG)	
1	3918.006.1000	1		Hyd Oil Cooler	
2	3918.006.2000	1		Radiator 1	
3	3918.006.5000	1		Charge Air Cooler	
4	3918.006.6000	1		Gearbox Oil Cooler	
5	3918.006.4010	1		Shroud	
6	3918.003.0060	1		Fan Motor Mt	
7	3918.003.4040	1		Finger Guard	
8	3806.061.0001	2		Bracket	
9	3824.060.0002	2		Bracket	
10	609622	2		Adapter	
11	8080.026.0000	1		Hose Assy	
12	8055.008.0000	1		P-Clip	
13	603.275	1		Plug	
14	608.952	1		Pit-Cock	
15	8060.075.0000	1		By-Pass	
16	609004	1		Check Valve	
17		30		Bolt Kit - HDW-SET_375_BW-55-WN	
18	8050.047.0000	4		Bolt	
19	8054.030.0000	4		Washer	
20	8054.031.0000	4		Washer	
21	8054.033.0000	8		Washer	
22	8050.035.0000	8		Bolt	
23	8050.038.0000	21		Bolt	
24	8054.036.0000	21		Washer	
25	8050.066.0000	6		Bolt	
26	8054.042.0000	12		Washer	
27	8049.001.0000	6		Nut	

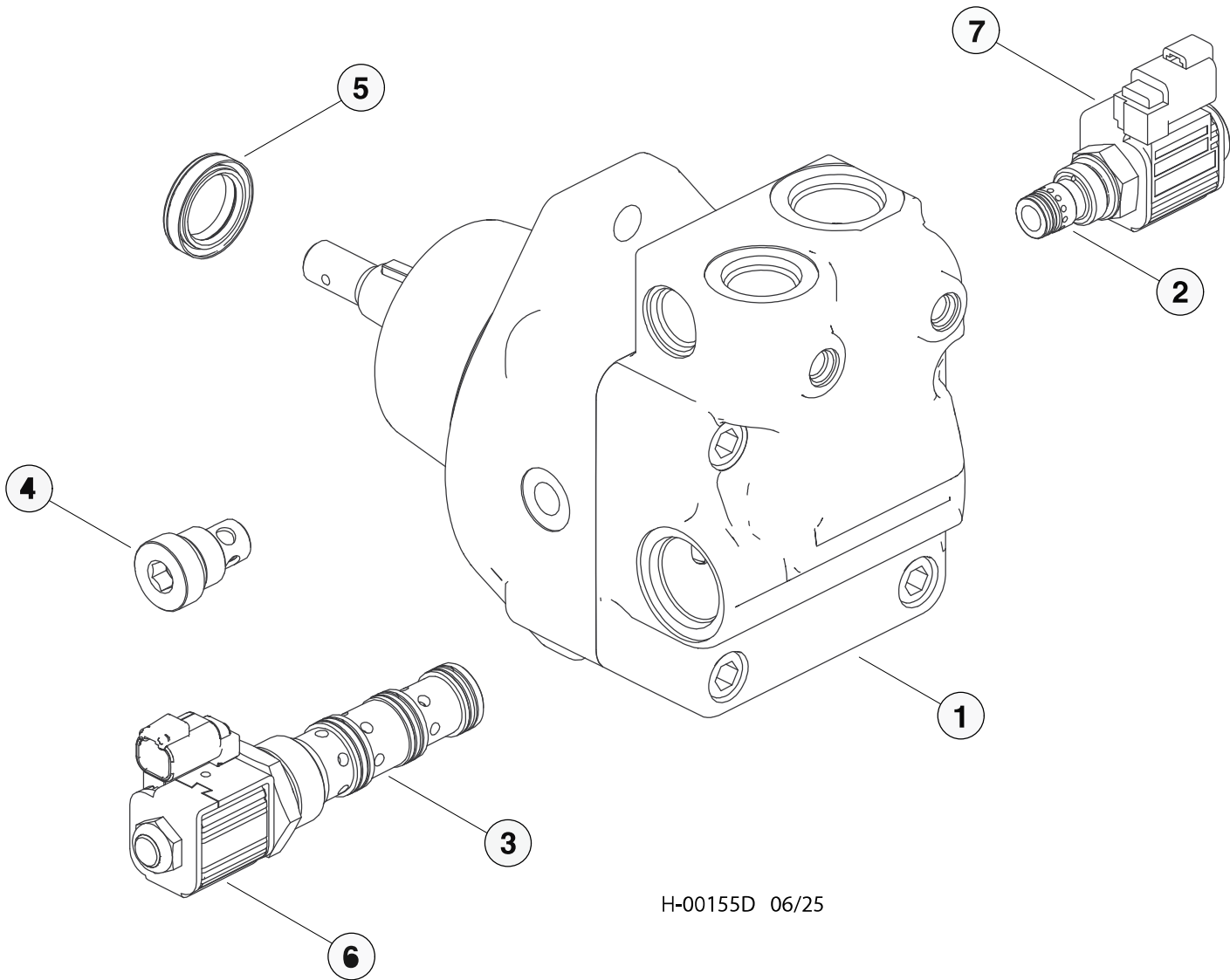


See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

NOTE: APPLY GREASE TO O-RINGS



H-00155D 06/25

RADIATOR AND COOLER FAN CIRCUIT**Fan Drive Motors**

Item	Part #	Description	Qty.
1	55215	MOTOR, FAN DRIVE - RADIATOR W/FAN CONTROL	1
2	57603	VALVE, PROPORT. FAN MOTOR (SMALL)	1
3	57604	VALVE, REVERSING FAN MOTOR (LARGE)	1
4	58171	ASSEMBLY, CHECK VALVE	1
5	57688	SHAFT SEAL	1
6	CCS024HSZN	COIL	1
7	CCP024H	COIL	1

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Section UP-4

Upper Turntable - Decals

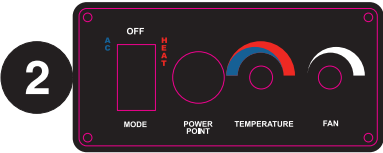
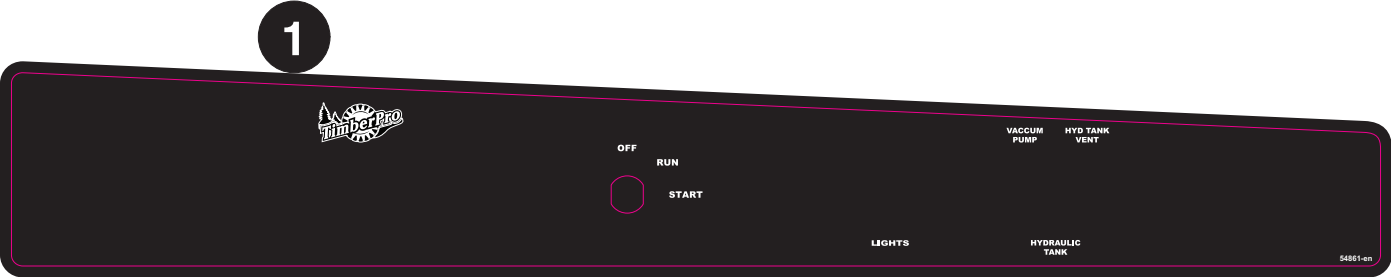


UPPER TURNTABLE DECALS

OUTER DECALS

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	53058EN-UP	1	☐	KIT, DECAL - Keep Clear and Logos (ENGLISH)	
	53058FR-UP	1	☐	KIT, DECAL - Keep Clear and Logos (FRENCH)	
	53058SP-UP	1	☐	KIT, DECAL - Keep Clear and Logos (SPANISH)	
	53058BR-UP	1	☐	KIT, DECAL - Keep Clear and Logos (Brazilian Portuguese)	
	53058GR-UP	1	☐	KIT, DECAL - Keep Clear and Logos (GERMAN)	
1	50695-UP	4		DECAL, TIMBERPRO LOGO - 16"	
2	50694-UP	3		DECAL, TIMBERPRO LOGO - 10"	
3	16059EN-UP	2		DECAL, KEEP CLEAR 250 FEET (ENGLISH)	
	-UP	2		DECAL, KEEP CLEAR 90 M (FRENCH)	
	-UP	2		DECAL, KEEP CLEAR 90 M (SPANISH)	
	-UP	2		DECAL, KEEP CLEAR 90 M (Brazilian Portuguese)	
	-UP	2		DECAL, KEEP CLEAR 90 M (GERMAN)	
4	55292-UP	1		DECAL, GULLWING STRIPE - C SERIES - BLACK	
5&6	55538-UP	1	☐	DECAL, MODEL # - TB630-C	
-	55540-UP	1	☐	DECAL, MODEL # - TF830-C	
-	55539-UP	1	☐	DECAL, MODEL # - TF840-C	
7	51917-UP	1		DECAL, KEEP CLEAR 250 FEET - GULLWING - (ENGLISH)	
-	51917FR-UP	1		DECAL, KEEP CLEAR 250 FEET - GULLWING - (FRENCH)	
-	51917SP-UP	1		DECAL, KEEP CLEAR 250 FEET - GULLWING - (SPANISH)	
-	51917BR-UP	1		DECAL, KEEP CLEAR 250 FEET - GULLWING - (Brazilian Portuguese)	
-	51917GR-UP	1		DECAL, KEEP CLEAR 250 FEET - GULLWING - (GERMAN)	

☐ Kit or assembly. Includes all items indented underneath.



UPPER TURNTABLE DECALS**CAB DASH DECALS**

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	54861EN-UP	1	☐	DECAL, DASH - C MODEL (ENGLISH)	
	54861FR-UP	1	☐	DECAL, DASH - C MODEL (FRENCH)	
	54861SP-UP	1	☐	DECAL, DASH - C MODEL (SPANISH)	
	54861GR-UP	1	☐	DECAL, DASH - C MODEL (GERMAN)	
	54861BR-UP	1	☐	DECAL, DASH - C MODEL (Brazilian Portuguese)	
1	-UP	1		DECAL, DASH - UPPER	
1	-UP	1		DECAL, DASH - LOWER/HEATER	

☐ Kit or assembly. Includes all items indented underneath.

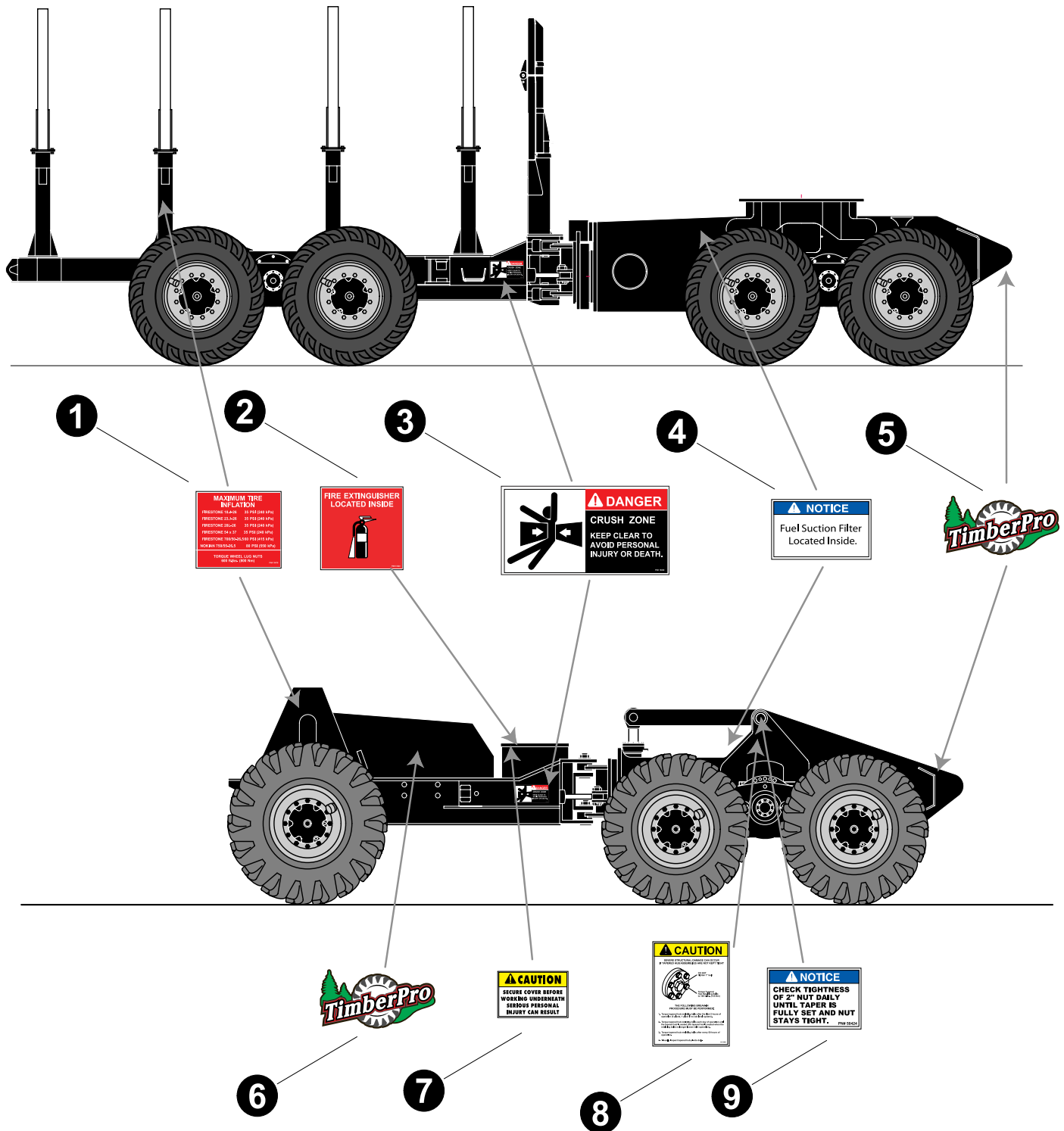
UP-4-5

UPPER TURNTABLE DECALS

WARNING - INFO - CAUTION DECALS

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	55493EN-UP	1	☐	KIT, DECAL - "C" SERIES Outside (ENGLISH)	
-	55493FR-UP	1	☐	KIT, DECAL - "C" SERIES Outside (FRENCH)	
-	55493SP-UP	1	☐	KIT, DECAL - "C" SERIES Outside (SPANISH)	
-	55493GR-UP	1	☐	KIT, DECAL - "C" SERIES Outside (GERMAN)	
-	55493BR-UP	1	☐	KIT, DECAL - "C" SERIES Outside (Brazilian Portuguese)	
1	-UP	1		DECAL, Direct Water Spray	
2	-UP	1		DECAL, Pump Pressure Label	
3	-UP	1		DECAL, ECU Shutdown Warning	
4	-UP	1		DECAL, Pre-Heater Fuel	
5	-UP	1		DECAL, Gullwing Weight Warning	
6	-UP	1		DECAL, Gullwing Pump Oil Level	
7	-UP	1		DECAL, Charge Filter Grease Threads	
8	-UP	1		DECAL, Fire Extinguisher Inside	
9	-UP	1		DECAL, Fire Suppression Actuator	
10	-UP	1		DECAL, Boom Grease Locations	
11	-UP	1		DECAL, Operator Notice	
12	-UP	1		DECAL, Made in USA	
13	-UP	1		DECAL, Vacuum Pump Warning	
14	-UP	1		DECAL, Fan Guards	
15	-UP	1		DECAL, Secure Cover	
16	-UP	1		DECAL, Battery Cable Weld Warning	
17	-UP	1		DECAL, Master Disconnect Warning	
18	-UP	1		DECAL, Fuse Warning	
19	-UP	1		DECAL, US Patent Label	
20	-UP	1		DECAL, Relay Fuse Warning	
21	-UP	1		DECAL, Moving Parts Guard Warning	
22	-UP	1		DECAL, Air Cleaner Valve	
23	-UP	1		DECAL, Gearbox Dipstick	
24	-UP	1		DECAL, Emergency Escape Circle	
25	-UP	1		DECAL, Hot - Pressure Tank Warning	
26	-UP	1		DECAL, Emergency Escape	

☐ Kit or assembly. Includes all items indented underneath.



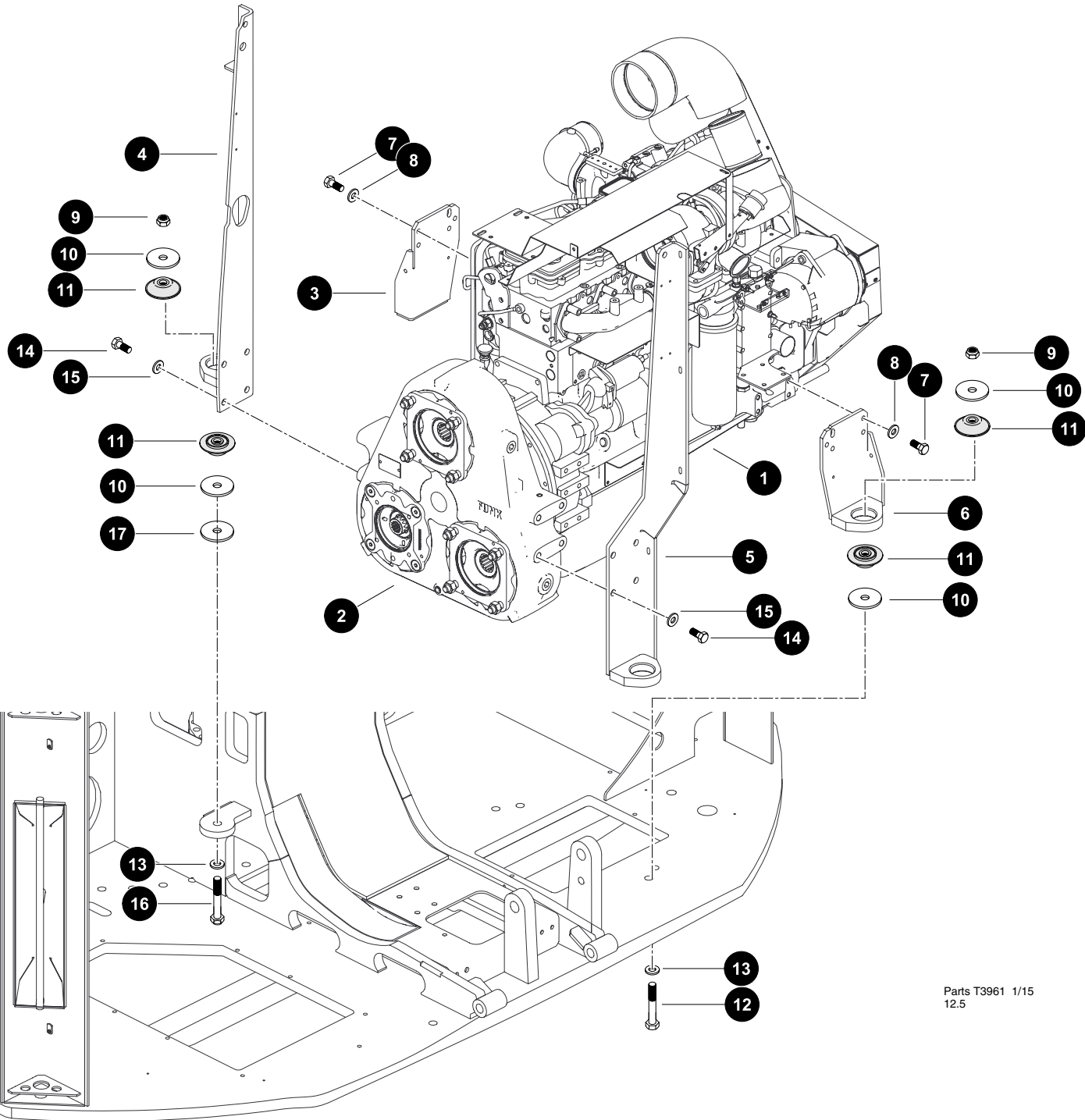
UPPER TURNTABLE DECALS**LOWER FRAME DECALS**

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	50964-UP	2	DECAL, TIMBERPRO LOGO - 10" WHEEL	
2	19678-UP	4	DECAL, TIRE PRESSURE	
3	16060-UP	8	DECAL, DANGER CRUSH ZONE	
4	51261-UP	1	DECAL, Fuel Suction Filter location	
5	50695-UP	2	DECAL, TIMBERPRO LOGO - 18" WHEEL	
6	50424-UP	2	DECAL, TORQUE 2" NUT NOTICE	
7	50359-UP	2	DECAL, SECURE COVER CAUTION	
8	18066-UP	2	DECAL, TAPERED HUB TORQUE	
9	50424-UP	2	DECAL, TORQUE 2" NUT NOTICE	

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Section EE-1

Cummins QSC Engine - Installation and Parts



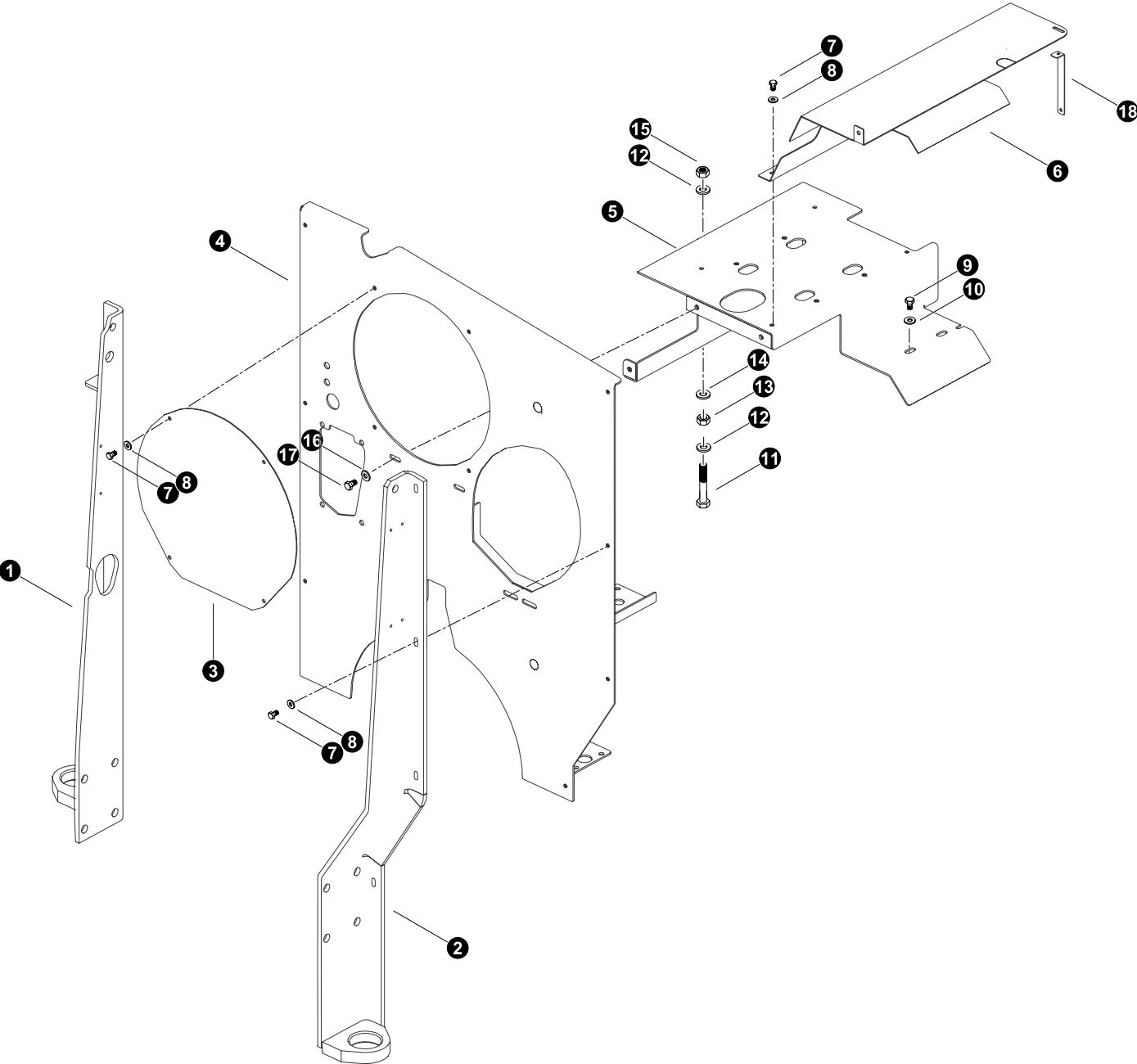
Parts T3961 1/15
12.5

ENGINE INSTALLATION

Cummins QSC 8.3L

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	54251-EE	1	ENGINE, CUMMINS - 300HP (TIER 3 TPEM)	
2	REF	1	PUMP DRIVE TRANSMISSION	EE-4
3	46058-EE	1	MOUNT, ENGINE C-SERIES CUMMINS TIER 3	
4	46062-EE	1	MOUNT, ENGINE REAR LH CUMMINS TIER 3	
5	46795-EE	1	MOUNT, GEARBOX - OUTER (C SERIES)	
6	46058-EE	1	MOUNT, ENGINE C-SERIES CUMMINS TIER 3	
7	15551-EE	4	BOLT - 12mm-1.75P x 40mm (Torque to 92 ft.lbs. (122 Nm))	
8	15534-EE	4	WASHER, SAE FLAT - .5"	
9	10817-EE	2	NUT, lock 3/4"	
10	17918-EE	8	WASHER, isolator mount .875"	
11	17904-EE	8	ISOLATOR	
12	10846-EE	3	BOLT - 3/4" x 5.5"	
13	15550-EE	6	WASHER, SAE flat - 3/4"	
14	15502-EE	8	BOLT - 5/8" x 1-1/2" (Torque to 150 ft.lbs. (200 Nm))	
15	10771-EE	8	WASHER, SAE flat - 5/8	
16	10846-EE	1	BOLT - 3/4" x 6"	
17	47267-EE	2	WASHER, ENGINE MOUNT	

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

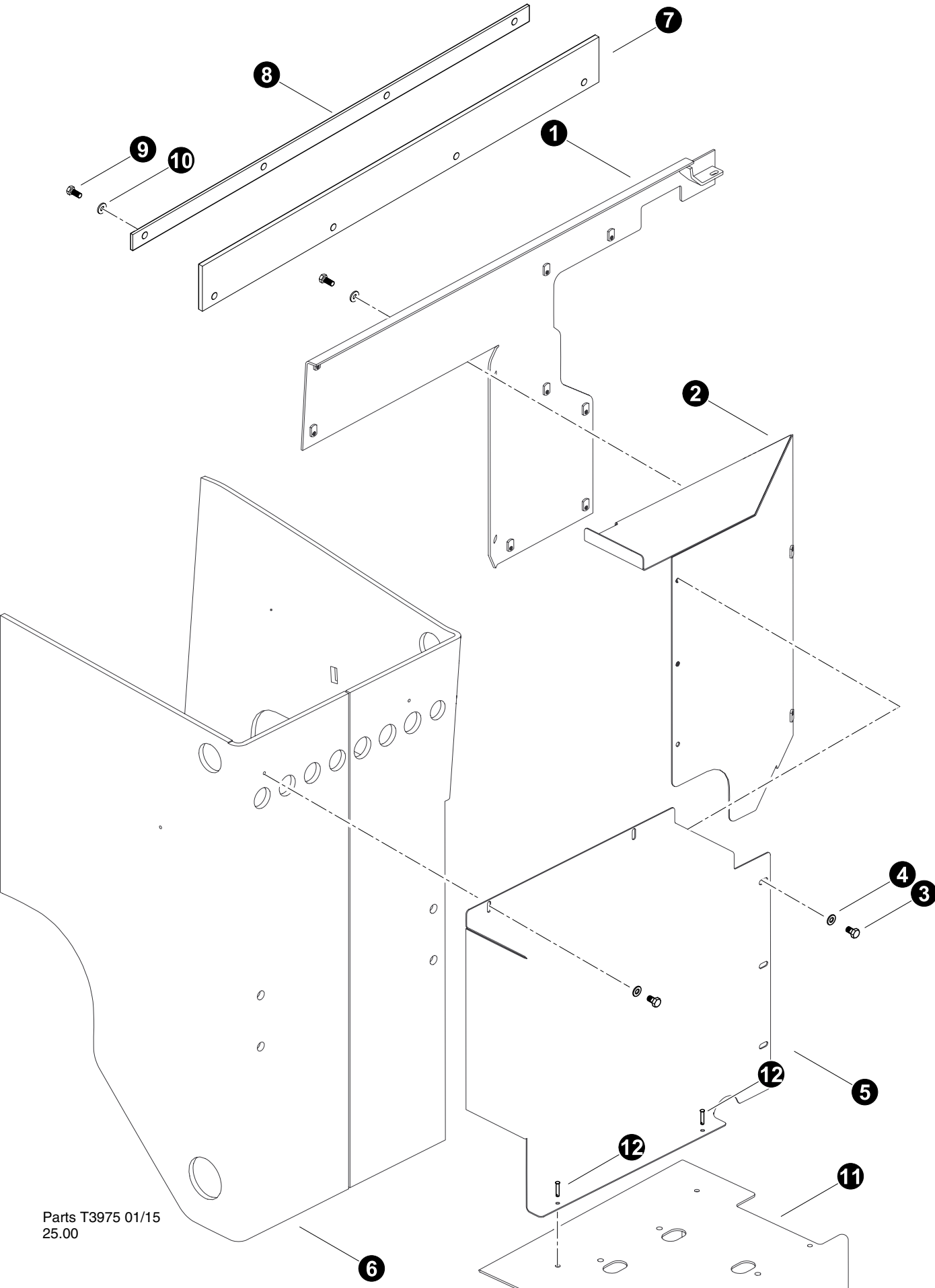


Parts T3962 1/15
25.00

BARRIER PANELS - REAR**Cummins QSC 8.3L**

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	REF	1	REAR ENGINE MOUNT	EE-1
2	REF	1	REAR ENGINE MOUNT	EE-1
3	46940-EE	1	COVER, AIR CLEANER ACCESS - CUMMINS	
4	46894-EE	1	PANEL, ENGINE - CUMMINS C SERIES	
5	46196-EE	1	MOUNT, AIR CLEANER ASSY CUMMINS TIER 3	
6	46936-EE	1	SHIELD, HEAT - EXHAUST PIPE	
7	15604-EE	4	BOLT - .25" X .75"	
8	10757-EE	4	WASHER, SAE FLAT - .25"	
9	18416-EE	2	BOLT - 10MM-1.5P X 25MM	
10	15548-EE	2	WASHER, SAE FLAT - .4375"	
11	20084-EE	1	BOLT - .375" X 1.75"	
12	15528-EE	2	WASHER, SAE FLAT - .375"	
13	10700-EE	1	NUT, HEX - .375"	
14	15528-EE	2	WASHER, SAE FLAT - .375"	
15	10813-EE	1	NUT, LOCK - .375"	
16	15559-EE	4	WASHER, SAE FLAT - .3125"	
17	15605-EE	4	BOLT - .3125" X .75"	
18	46939-EE	1	BRACKET, HEAER SHIELD SUPPORT - CUMMINS	

☐ Kit or Assembly - includes all items indented underneath.

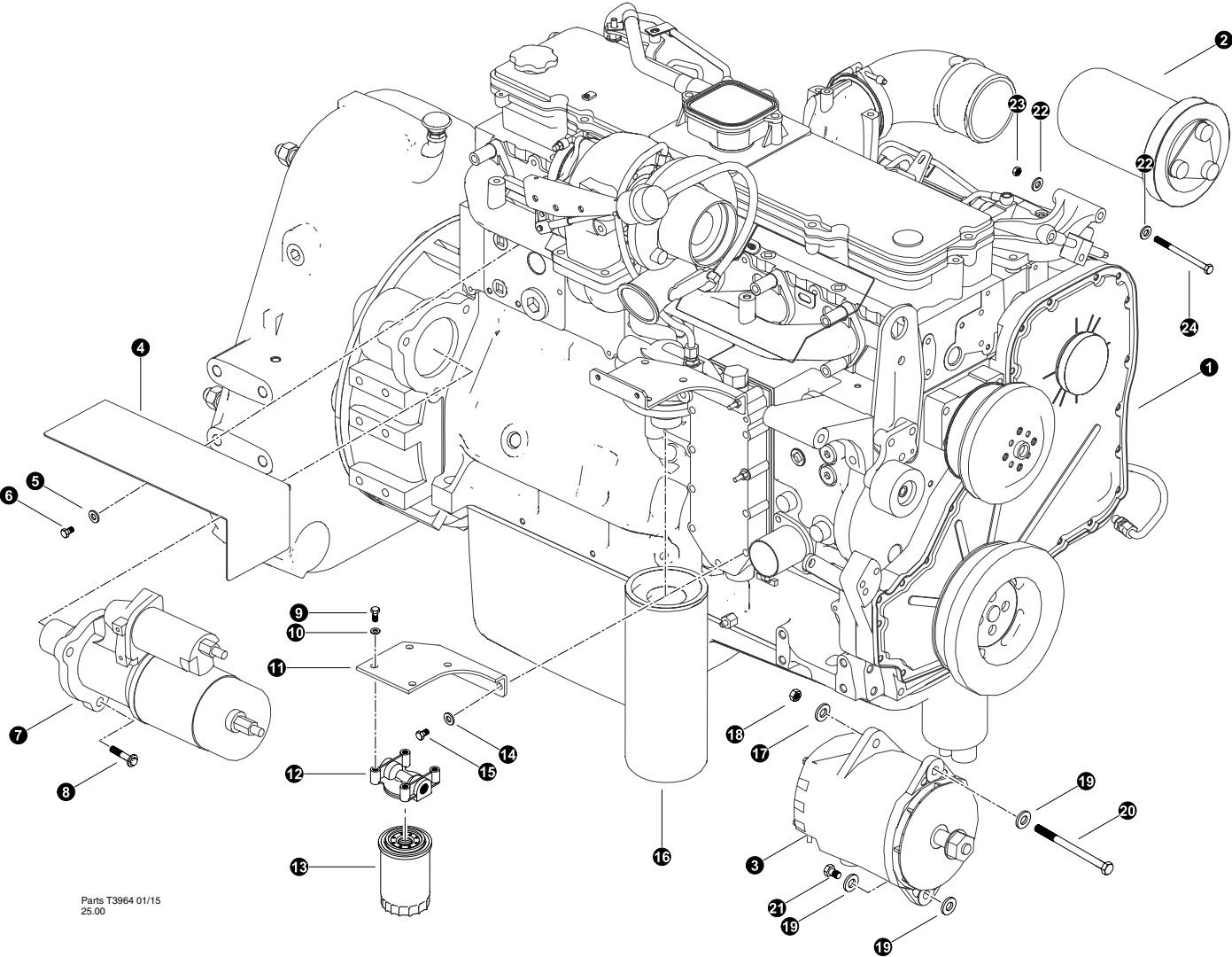


Parts T3975 01/15
25.00

BARRIER PANELS - FRONT**Cummins QSC 8.3L**

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	46485-EE	1	WELDMENT, ENG BARRIER - VALVE COVER	
2	46325-EE	1	BARRIER, ENGINE 3 - C MODEL	
3	15604-EE	7	BOLT - .25" X .75"	
4	10757-EE	7	WASHER, SAE FLAT - .25"	
5	46322-EE	1	BARRIER, ENGINE 2 - C MODEL	
6	REF	1	UPPER TURNTABLE WELDMENT.....	UP-1
7	47202-EE	1	RUBBER, COOLER SIDE - INNER (C SERIES)	
8	53052-EE	1	BAR, RETAINER 1/8x1x31.7	
9	15604-EE	4	BOLT - .25" X .75"	
10	10757-EE	4	WASHER, SAE FLAT - .25"	
11	REF	1	MOUNT, AIR CLEANER ASSY CUMMINS TIER 3.....	EE-1
12	46322-EE	2	CLEVIS - 1/4" x .88"	

☐ Kit or Assembly - includes all items indented underneath.

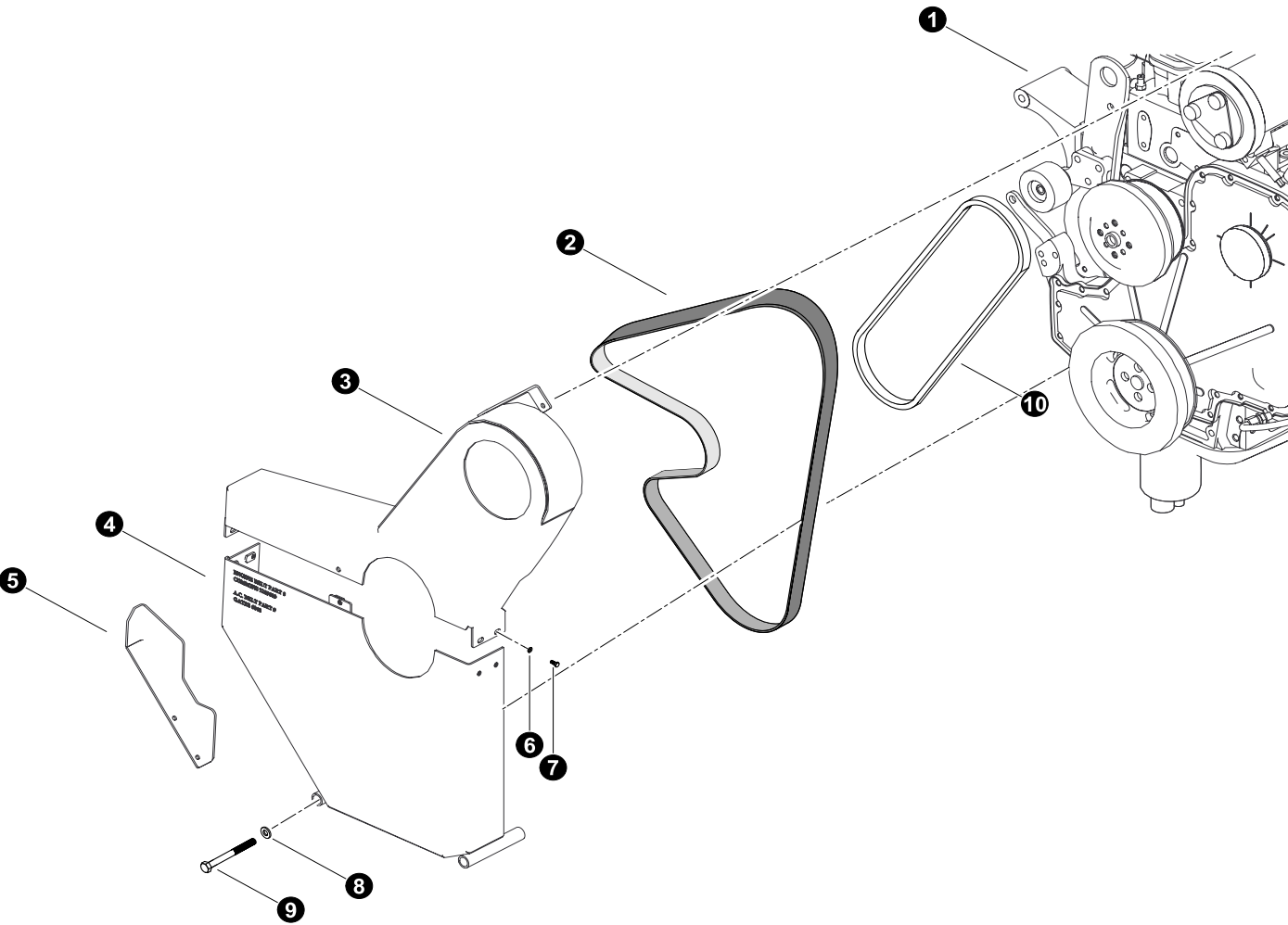


Starter, Alternator, Compressor and Filters

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	REF	1	ENGINE, CUMMINS	EE-1
2	55135-EE	1	COMPRESSOR, A/C - C MODEL / SKIDDER	
3	53246-EE	1	ALTERNATOR, TIER 3 CUMMINS - 24V/100A	
4	46199-EE	1	SHIELD, STARTER - CUMMINS TIER 3	
5	15548-EE	2	WASHER, SAE FLAT - .4375"	
6	17395-EE	2	BOLT - 10MM-1.5P X 20MM	
7	53240-EE	1	STARTER - C8.3C/QSC (24V) 3102767	
8	-EE	1	BOLT, 12 point cap - 10mm x 35 mm	
9	15542-EE	4	BOLT - .375" X .75"	
10	15528-EE	4	WASHER, SAE FLAT - .375"	
11	46739-EE	1	PLATE, WATER - FLITER SUPPORT - CUMMINS	
12	16574-EE	1	MOUNT, FILTER HEAD ASSEMBLY	
13	20445-EE	1	FILTER, COOLANT - CUMMINS C SERIES	
14	15548-EE	2	WASHER, SAE FLAT - .4375"	
15	25038-EE	2	BOLT - 8MM-1.25P X 65MM	
16	16070-EE	1	FILTER, engine oil	
17	15534-EE	2	WASHER, SAE FLAT - .5"	
18	24610-EE	1	NUT, HEX - 12MM-1.75P	
19	15534-EE	2	WASHER, SAE FLAT - .5"	
20	-EE	1	BOLT, Flange Head - 12mm x 150mm	
21	50149-EE	1	BOLT - 12MM-1.75P X 25MM	
22	15528-EE	2	WASHER, SAE flat - 3/8"	
23	15530-EE	1	NUT, hex - 10mm-1.5P	
24	24604-EE	1	BOLT - 10mm-1.5P x 125mm (Flange Head)	



See referenced page for component or assembly breakdown.



Parts T3963 01/15
12.5

ENGINE BELT AND SHROUDS

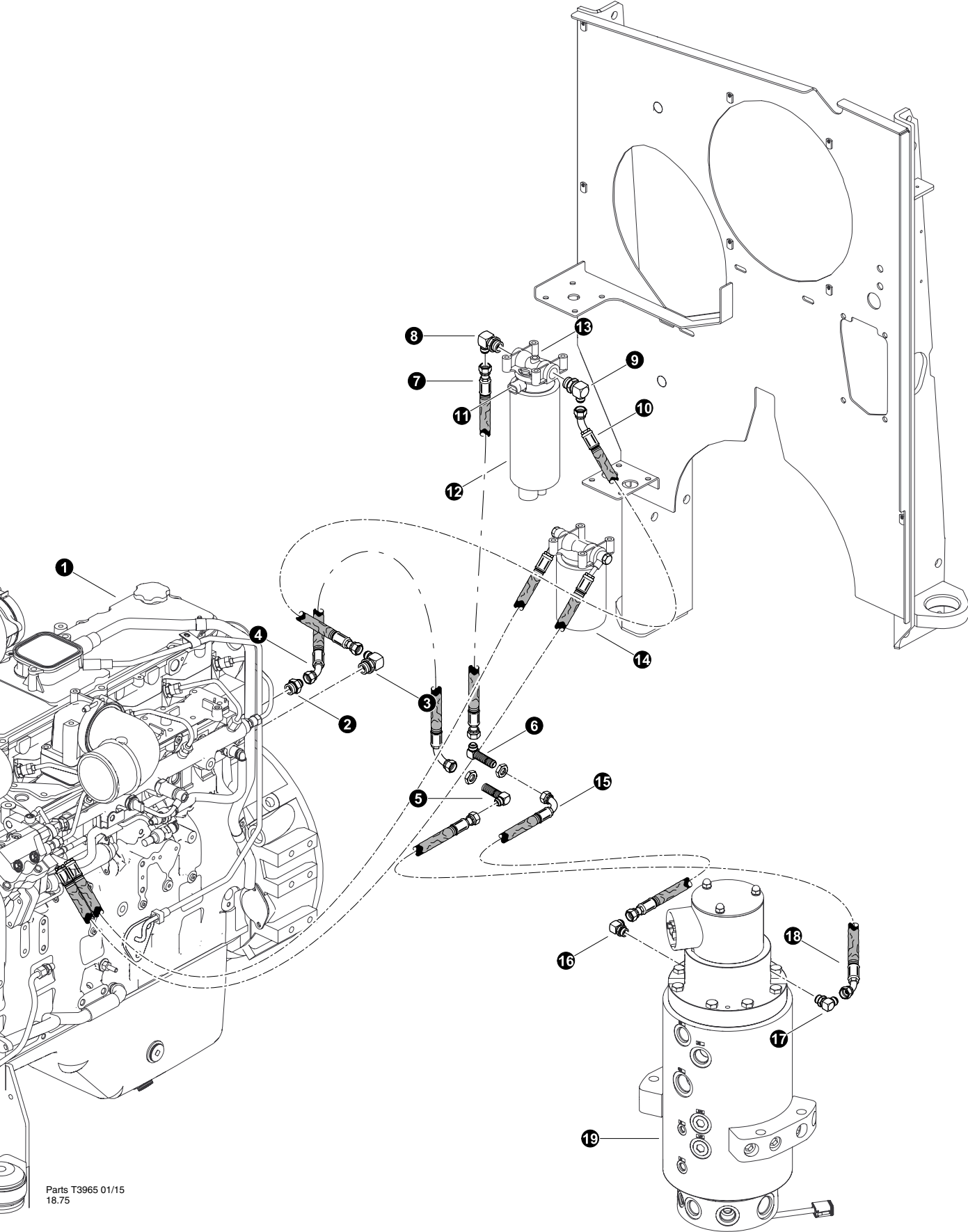
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ENGINE - Cummins QSC8.3-C	
2	3289809	1		BELT, Cummins QSC8.3- C Model	
-	46268-EE	1		SHROUD, RADIATOR FAN DRIVE ENGINE	
3	46272-EE	1		SHROUD, TOP	
4	46275-EE	1		SHROUD, Bottom	
5	46288-EE	1		SHROUD, Side	
6	10757-EE	4		WASHER, SAE FLAT - .25"	
7	15604-EE	4		BOLT - .25" X .75"	
8	15534-EE	2		WASHER, SAE FLAT - .5"	
9	53110-EE	2		BOLT - 12MM X 180MM FAN GUARD	
10	55584-EE	1		BELT, A/C COMPRESSOR - C-SERIES - Gates PowerRated 6848	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

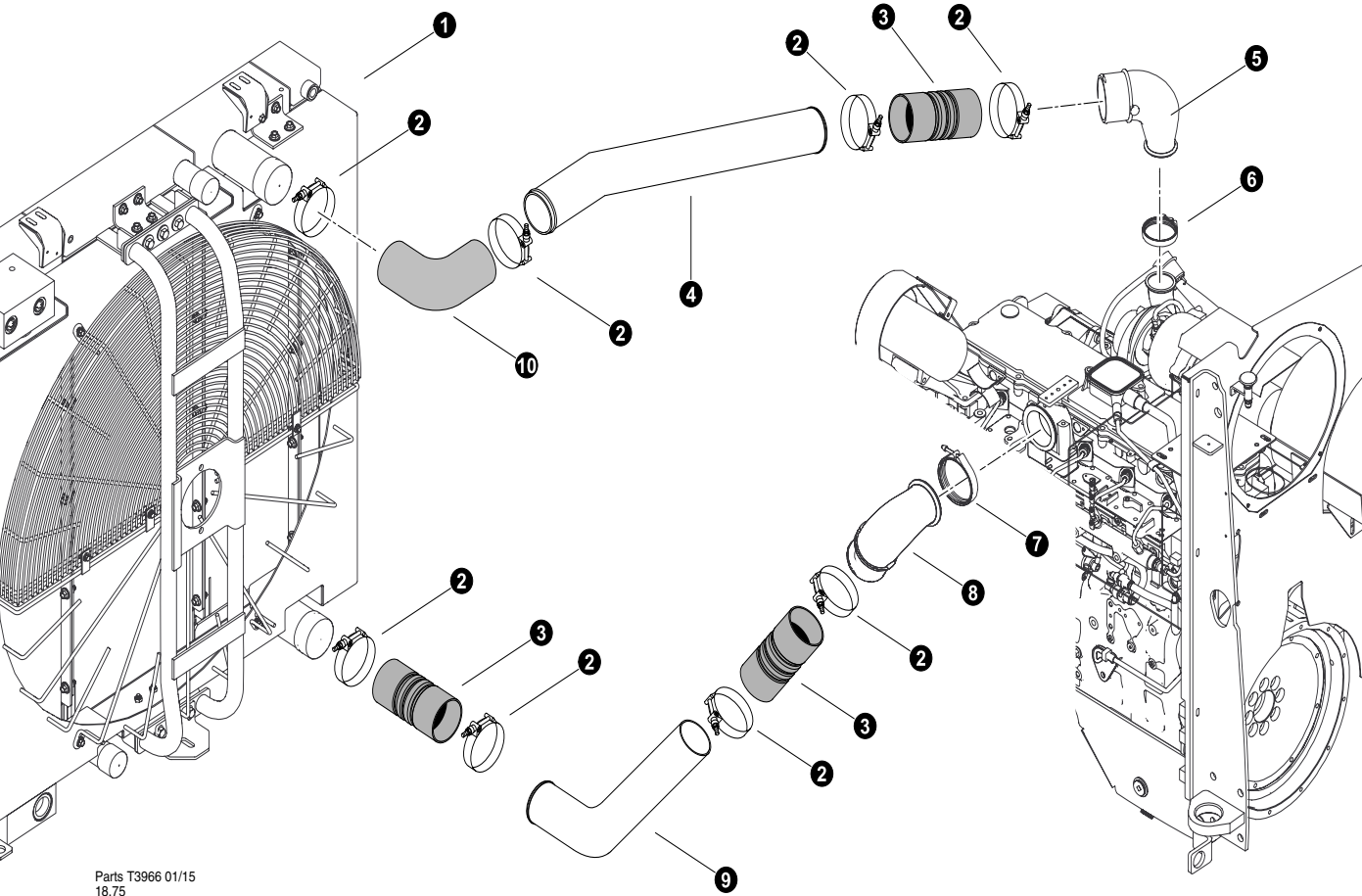


FUEL LINES

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ENGINE - Cummins QSC8.3-C.....	EE-1
2	53103-EE	1		FITTING, 6-8 - ORB-JIC 830-B	
3	53073-EE	1		ELBOW, 90 6-JIC X 10-ORB	
4	-EE	1		HOSE ASSEMBLY - 2038-06-06JS-06J4-W (<i>Engine Return to Bulkhead</i>)	
5	55347-EE	1		FITTING, ELBOW - BULKHEAD 6 WETX-WLN-S	
6	55347-EE	1		FITTING, ELBOW - BULKHEAD 6 WETX-WLN-S	
7	-EE	1		HOSE ASSEMBLY - 2027-06-06JS-06J9-W (<i>Filter Supply to Bulkhead</i>)	
8	53073-EE	1		ELBOW, 90 6-JIC X 10-ORB	
9	53073-EE	1		ELBOW, 90 6-JIC X 10-ORB	
10	-EE	1		HOSE ASSEMBLY - 2038-06-06JS-06J4-W (<i>Engine Supply to Filter</i>)	
11	-EE	1		Thermostat, Fuel Heater (3942357)	
12	24062-EE	1		FILTER, FUEL (CUMMINS QSC - ELECTRONIC)	
13	-EE	1		HEAD, Fuel Filter (3944986)	
14	52848-EE	1		FILTER, FUEL - PRIMARY QSC TIER 3	
15	-EE	1		HOSE ASSEMBLY - 2081-06-06JS-06J9-W (<i>rotary manifold port FR to Bulkhead</i>)	
16	15480-EE	1		ELBOW, 90 - 6801-6	
17	15480-EE	1		ELBOW, 90 - 6801-6	
18	-EE	1		HOSE ASSEMBLY - 2081-06-06JS-06J9-W (<i>rotary manifold port FS to Bulkhead</i>)	
19	REF	1		ROTARY MANIFOLD.....	UP-1



See referenced page for component or assembly breakdown.



Parts T3966 01/15
18.75

CHARGE AIR

(Air To Air Connections Tier 3 engine)

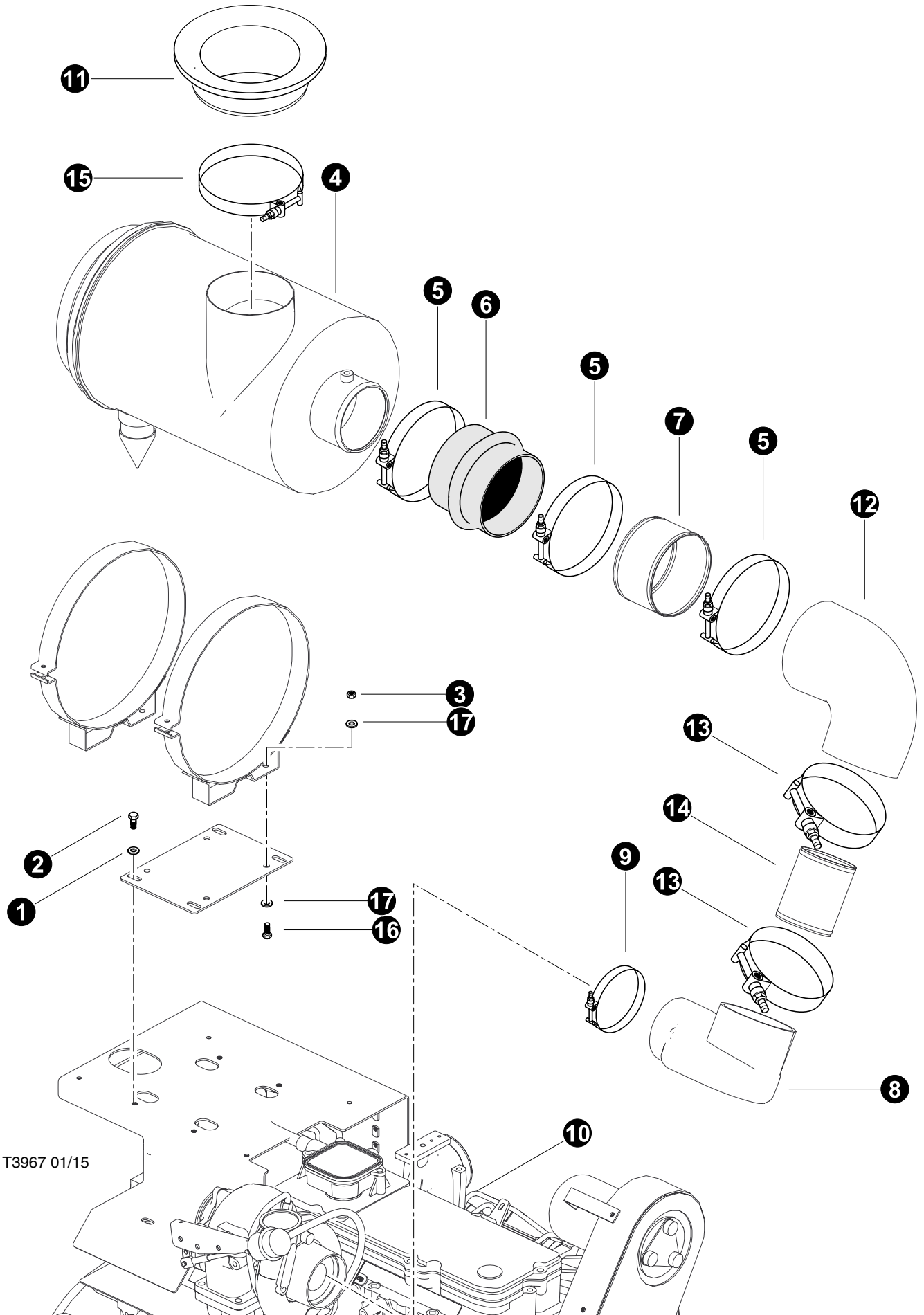
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		RADIATOR / AIR COOLER ASSEMBLY	EE-3
2	52862-EE	6		CLAMP, spring hose - 4" (3926703)	
3	52861-EE	4		HOSE, HUMP - SILICONE (3 WIRE CUMMINS)	
4	46222-EE	1		TUBE, AIR TO AIR (UPPER) C-SEREIS	
5	-EE	1		CUMMINS - Air Transfer Elbow	
6	-EE	1		CLAMP, V-Band - 3101325	
7	-EE	1		CLAMP, V-Band - 3067979	
8	-EE	1		CUMMIN - Air Transfer Elbow - 3682674	
9	46228-EE	1		TUBE, AIR TO AIR (LOWER) C-SERIES	
10	52753-EE	1		ELBOW, 90 - 3.5" X 6" SILICONE C-SERIES	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



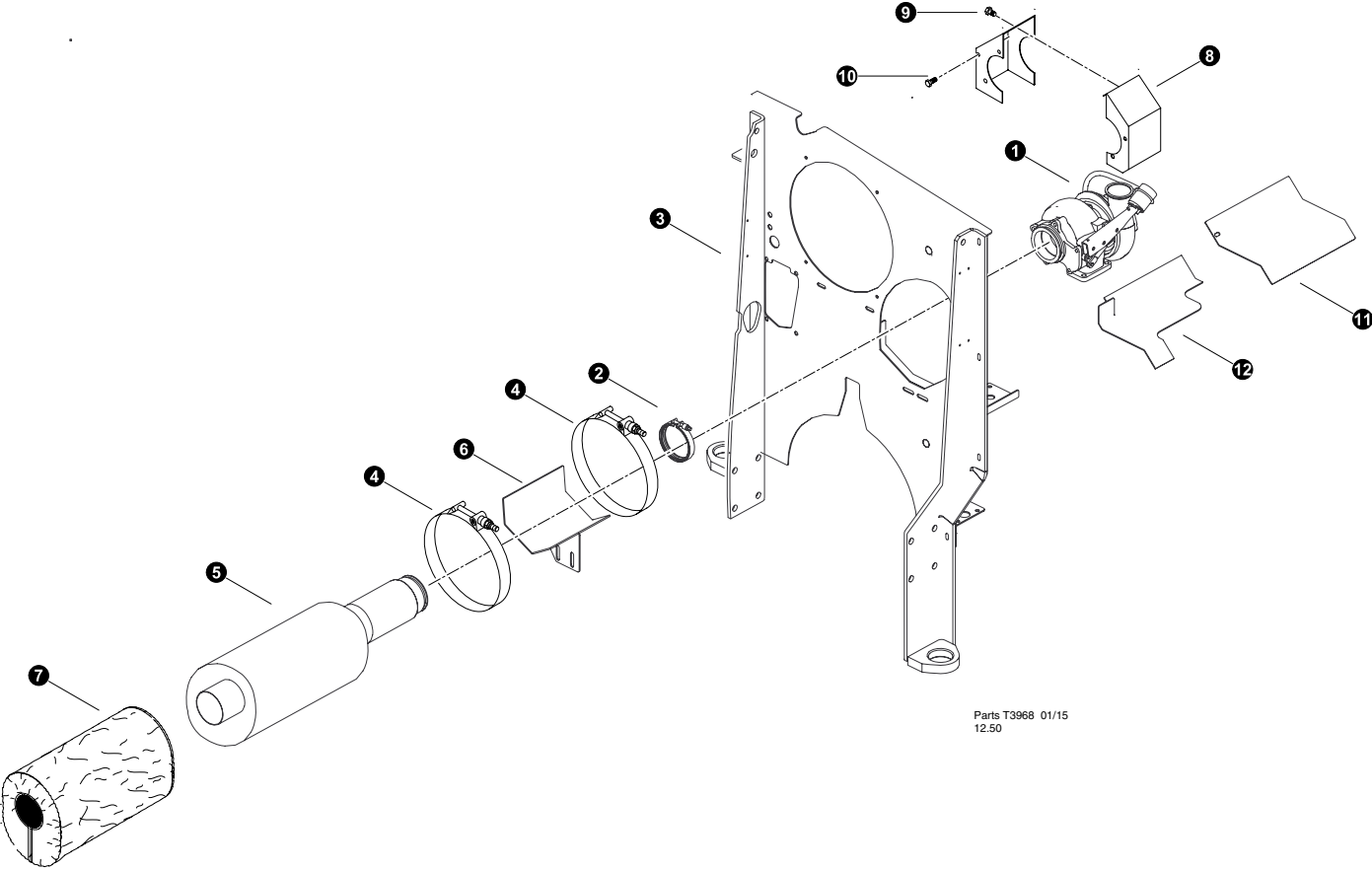
Parts T3967 01/15
12.5

AIR CLEANER INSTALLATION**(Tier 3 engine)**

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	15559-EE	4	WASHER, SAE FLAT - .3125"	
2	15605-EE	4	BOLT - .3125" X .75"	
3	10813-EE	4	NUT, LOCK - .375"	
4	REF.	1	 AIR CLEANER ASSEMBLY	EE-1
5	16249-EE	3	CLAMP, strap band - 5-1/2"	
6	52055-EE	1	HOSE, HUMP AIR CLEANER (5" X 5") CUMMINS	
7	46374-EE	1	TUBE, AIR CLEANER / TURBO - C SERIES (LH	
8	55634-EE	1	ELBOW, RUBBER - 4" x 4" - CUMMINS C-SER.	
9	15697-EE	1	CLAMP, strap band - 4-1/2"	
10	REF.	1	 ENGINE - Cummins C8.3-C	EE-1
11	52147-EE	1	FLANGE, RUBBER SEAL - AIR CLEANER	
12	15831-EE	1	ELBOW, 90 RUBBER - AIR CLEANER 4" X 5"	
13	15697-EE	2	CLAMP, strap band - 4-1/2"	
14	46529-EE	1	TUBE, AIR INTAKE STEEL - TURBO TO CLEAN	
15	53749-EE	1	CLAMP, HOSE - WORM STYLE - AIR CLEANER	



See referenced page for component or assembly breakdown.



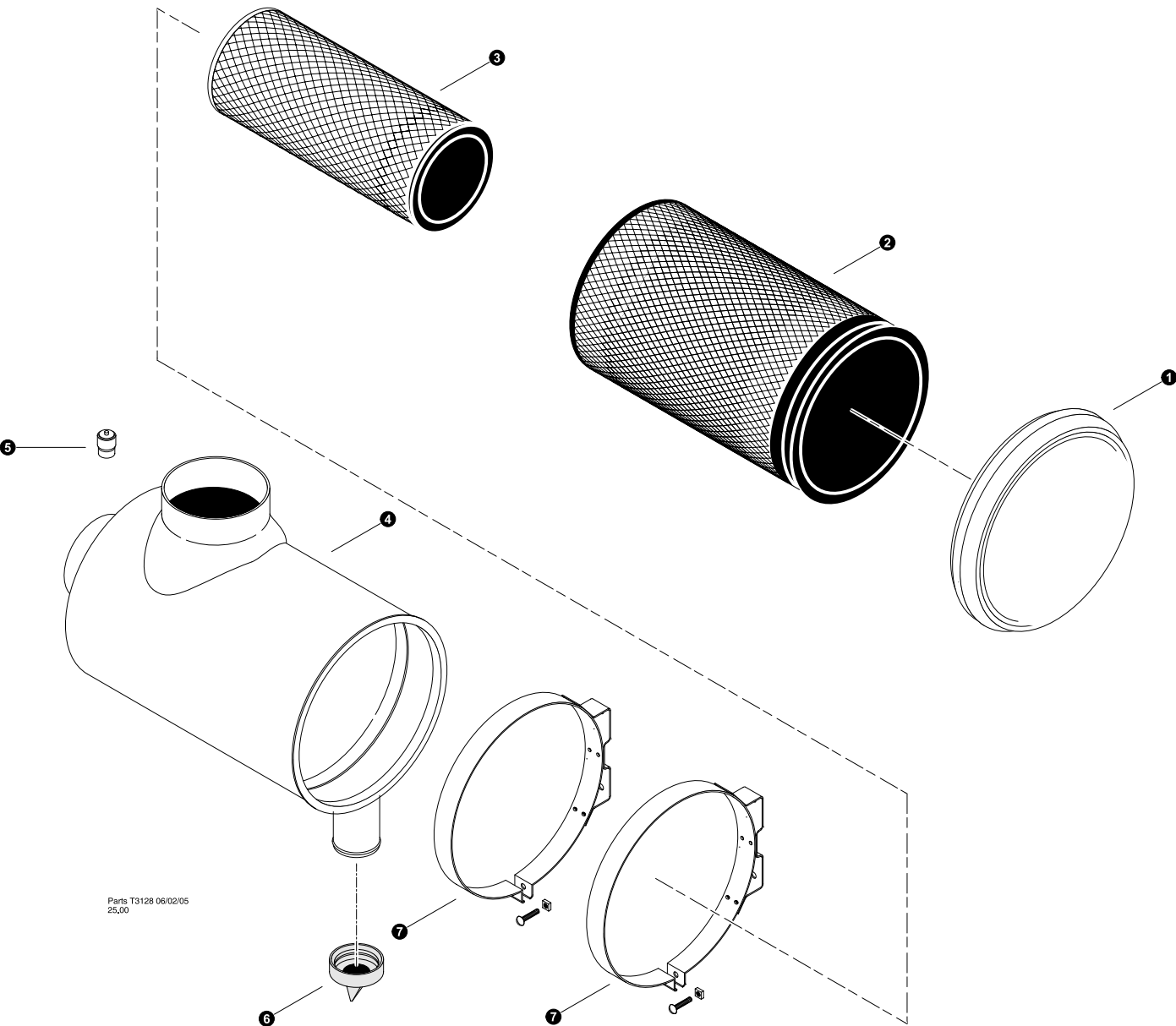
Parts T3968 01/15
12.50

MUFFLER INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ENGINE - Cummins C8.3-C	EE-1
2	20452-EE	1		CLAMP, turbo exhaust (3905216)	
3	REF.	1		REAR ENGINE PANEL	EE-1
4	55373-EE	2		CLAMP, MUFFLER - C SERIES - CUMMINS	
5	46182-EE	1		WELDMENT, MUFFLER ASSY - CUMMINS	
6	46157-EE	1		WELDMENT, MUFFLER MTG BRKT	
7	55142-EE	1		INSULATION, MUFFLER (C-SERIES)	
8	54839-EE	1		GUARD, TURBO - DEBRIS DEFLECTOR (standard)	
9	25059-EE	1		BOLT - 8MM-1.25P X 20MM	
10	25060-EE	2		BOLT - 8MM-1.25P X 25MM	
11	46234-EE	1		GUARD, exhaust manifold	
12	46238-EE	1		GUARD, exhaust manifold	



See referenced page for component or assembly breakdown.



AIR CLEANER ASSEMBLY

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	51729-EE	1	☐	AIR CLEANER ASSEMBLY - 830/630	
1	---	1		COVER - AIR CLEANER	
2	51756-EE	1		FILTER, air cleaner - primary	
3	51757-EE	1		FILTER, air cleaner - secondary	
4	---	1		CANISTER, air cleaner	
5	16114-EE	1		INDICATOR, air cleaner filter service	
6	52053-EE	1		BOOT, Air Cleaner Dust	
7	20450-EE	2	☐	CLAMP, air cleaner band	
-	15591-EE	1		BOLT - 5/16" x 1-1/2"	
-	10788-EE	1		NUT, nylock - 5/16"	

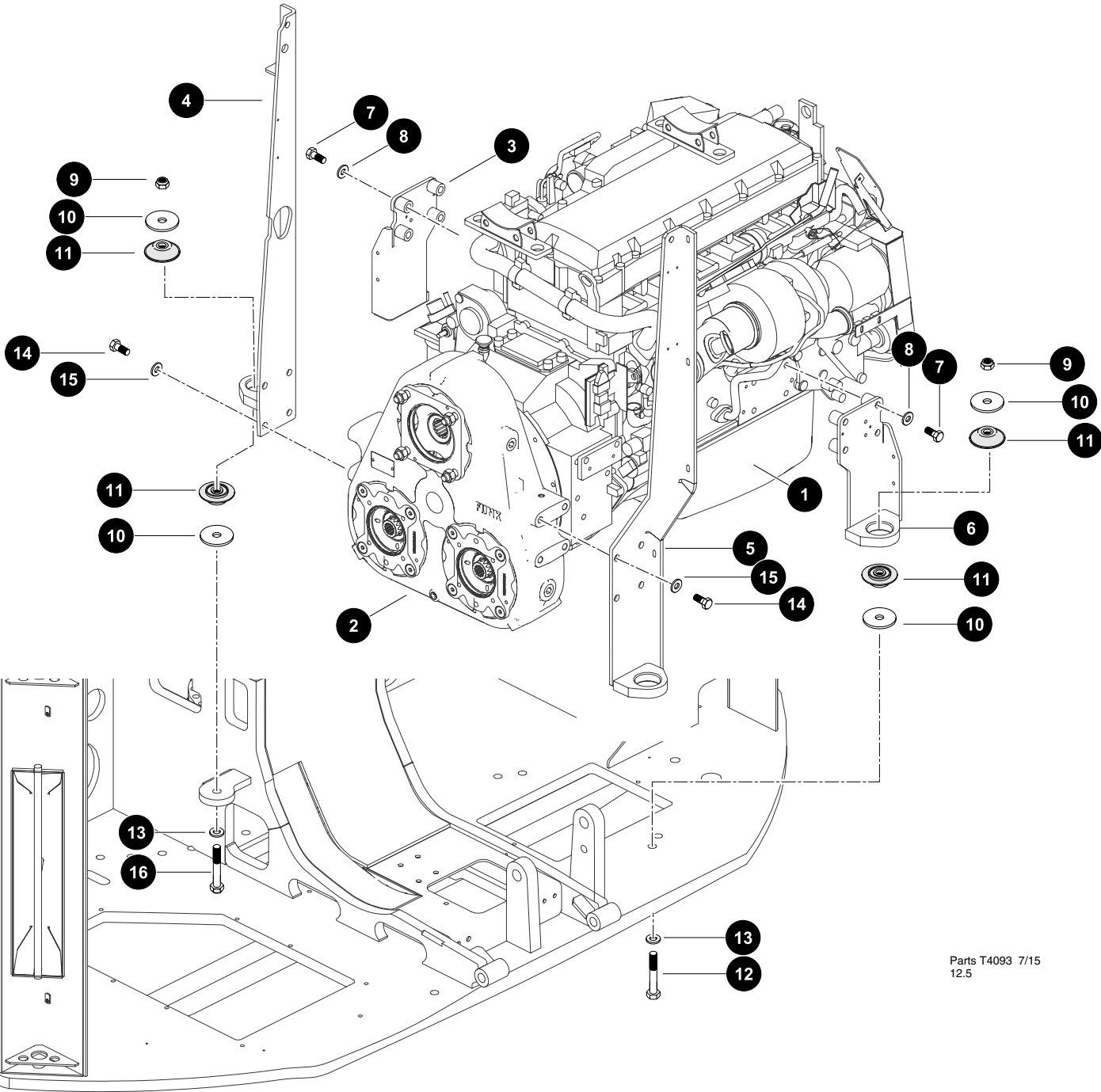
☐ Kit or Assembly - includes all items indented underneath.

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Section EE-2

Volvo Tier 4 Engine - Installation and Parts

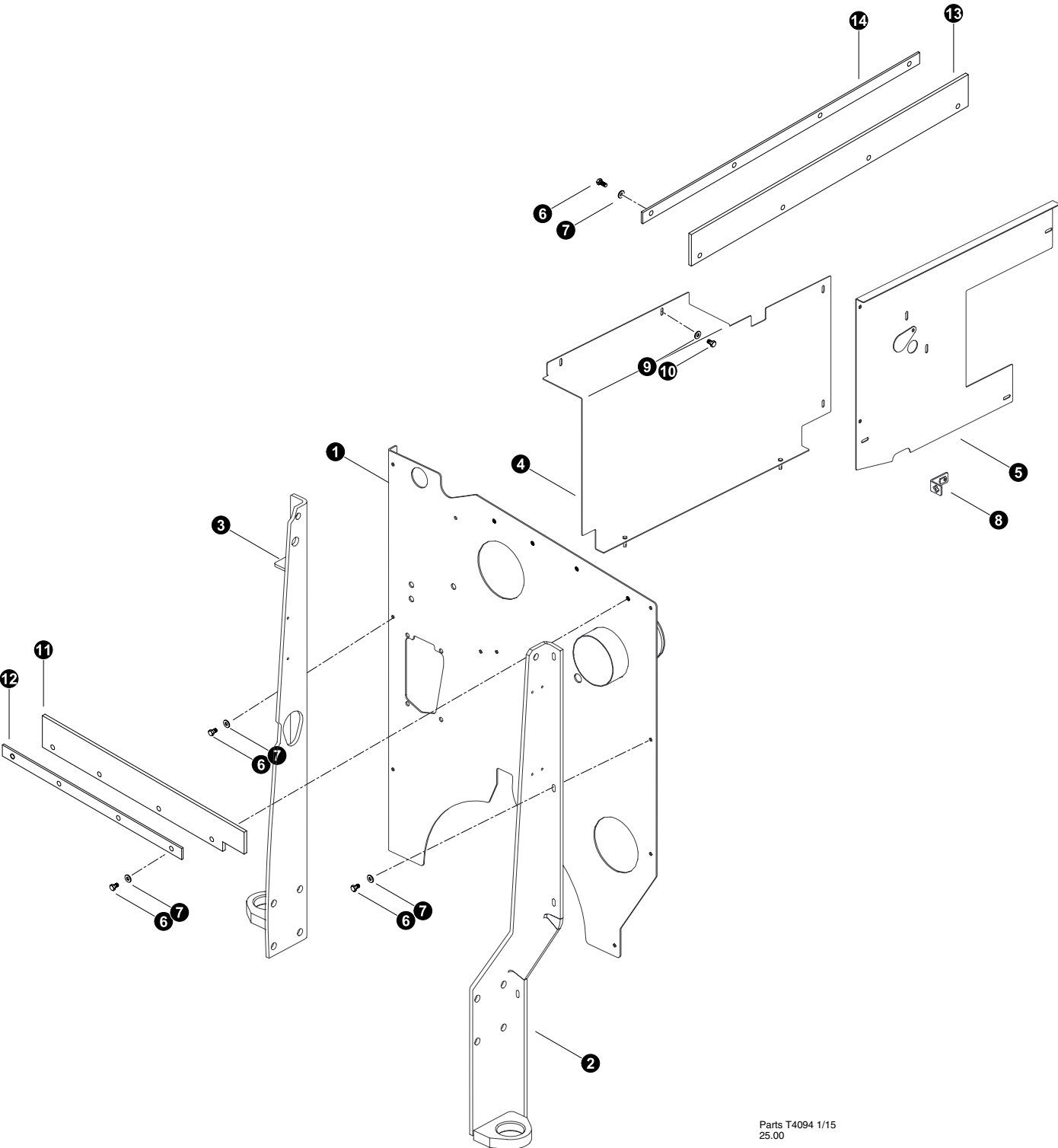


ENGINE INSTALLATION

Volvo Tier 4

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	55396-EE	1	ENGINE, VOLVO - TAD 873 VE TIER 4F	
2	REF	1	PUMP DRIVE TRANSMISSION	EE-4
3	46423-EE	1	MOUNT, ENGINE C-SERIES CUMMINS TIER 3	
4	46062-EE	1	MOUNT, ENGINE REAR LH	
5	46061-EE	1	MOUNT, ENGINE REAR RH	
6	46423-EE	1	MOUNT, ENGINE - VOLVO TIER 4F	
7	19929-EE	4	BOLT - 16MM-2.0P X 70MM (Torque to 150 ft.lbs. (200 Nm))	
8	15534-EE	4	WASHER, SAE FLAT - .5"	
9	10817-EE	2	NUT, lock 3/4"	
10	17918-EE	8	WASHER, isolator mount .875"	
11	17904-EE	8	ISOLATOR	
12	10846-EE	3	BOLT - 3/4" x 6"	
13	15550-EE	6	WASHER, SAE flat - 3/4"	
14	15502-EE	8	BOLT - 5/8" x 1-1/2" (Torque to 150 ft.lbs. (200 Nm))	
15	10771-EE	8	WASHER, SAE flat - 5/8	
16	10846-EE	1	BOLT - 3/4" x 6"	

☐ Kit or Assembly - includes all items indented underneath.

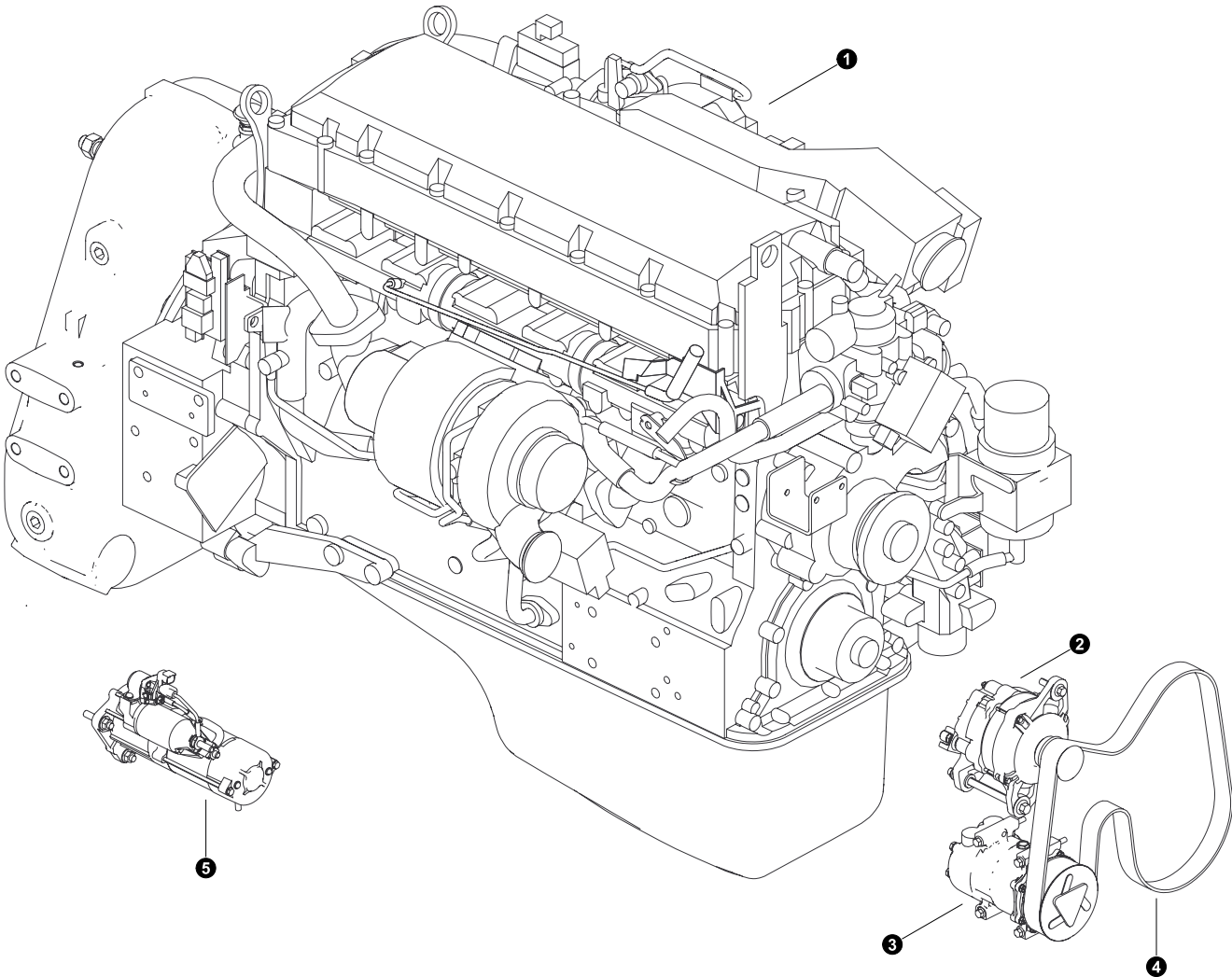


Parts T4094 1/15
25.00

BARRIER PANELS - REAR**Volvo Tier 4**

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	46877-EE	1	BARRIER, ENGINE - VOLVO	
2	REF	1	REAR ENGINE MOUNT	EE-1
3	REF	1	REAR ENGINE MOUNT	EE-1
4	46944-EE	1	SHIELD, HOSES - VOLVO	
5	46950-EE	1	ASSY, ENGINE BARRIER SHIELD MTG - VOLVO	
6	15604-EE	7	BOLT - .25" X .75"	
7	10757-EE	7	WASHER, SAE FLAT - .25"	
8	46946-EE	1	BRACKET, SHIELD MTG - VOLVO	
9	10757-EE	7	WASHER, SAE FLAT - .25"	
10	15604-EE	7	BOLT - .25" X .75"	
11	47206-EE	1	RUBBER, ENGINE BARRIER PANEL	
12	53051-EE	1	BAR, RETAINER 1/8x1x12	
13	47202-EE	1	RUBBER, COOLER SIDE - INNER (C SERIES)	
14	53052-EE	1	BAR, RETAINER 1/8x1x31.75	

☐ Kit or Assembly - includes all items indented underneath.



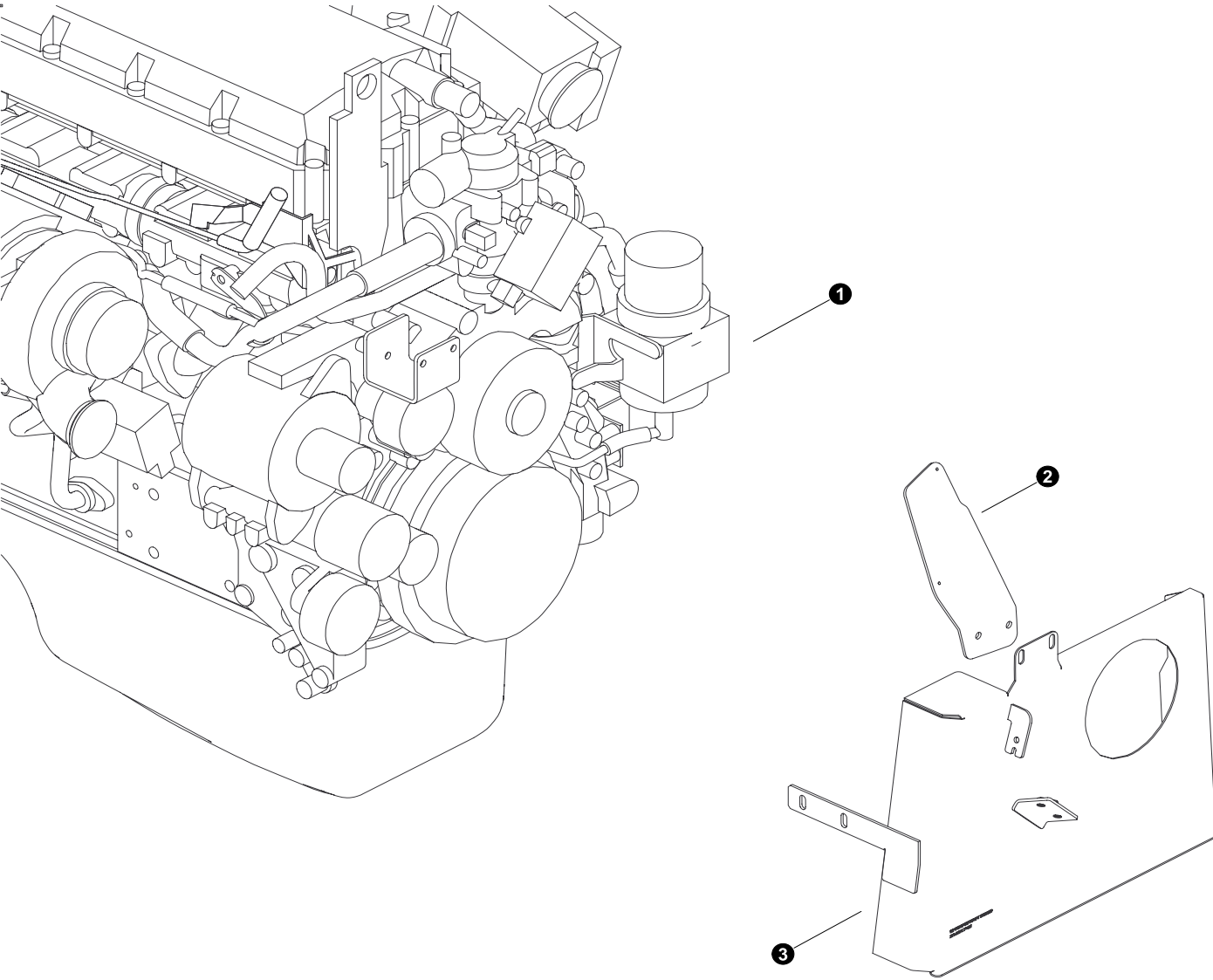
Parts T4095 07/15
25.00

Starter, Alternator, Compressor and Filters

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ENGINE, VOLVO Tier4	EE-2
2	21922756	1		ALTERNATOR, 130 amp	
3	-EE	1		COMPRESSOR, A/C - C MODEL	
4	54739-EE	1		BELT, A/C DRIVE - VOLVO 722 ENGINE	
5	21774085	1		STARTER, Volvo Tier4	



See referenced page for component or assembly breakdown.



Parts T4096 07/15
25.00

FAN SHROUDS

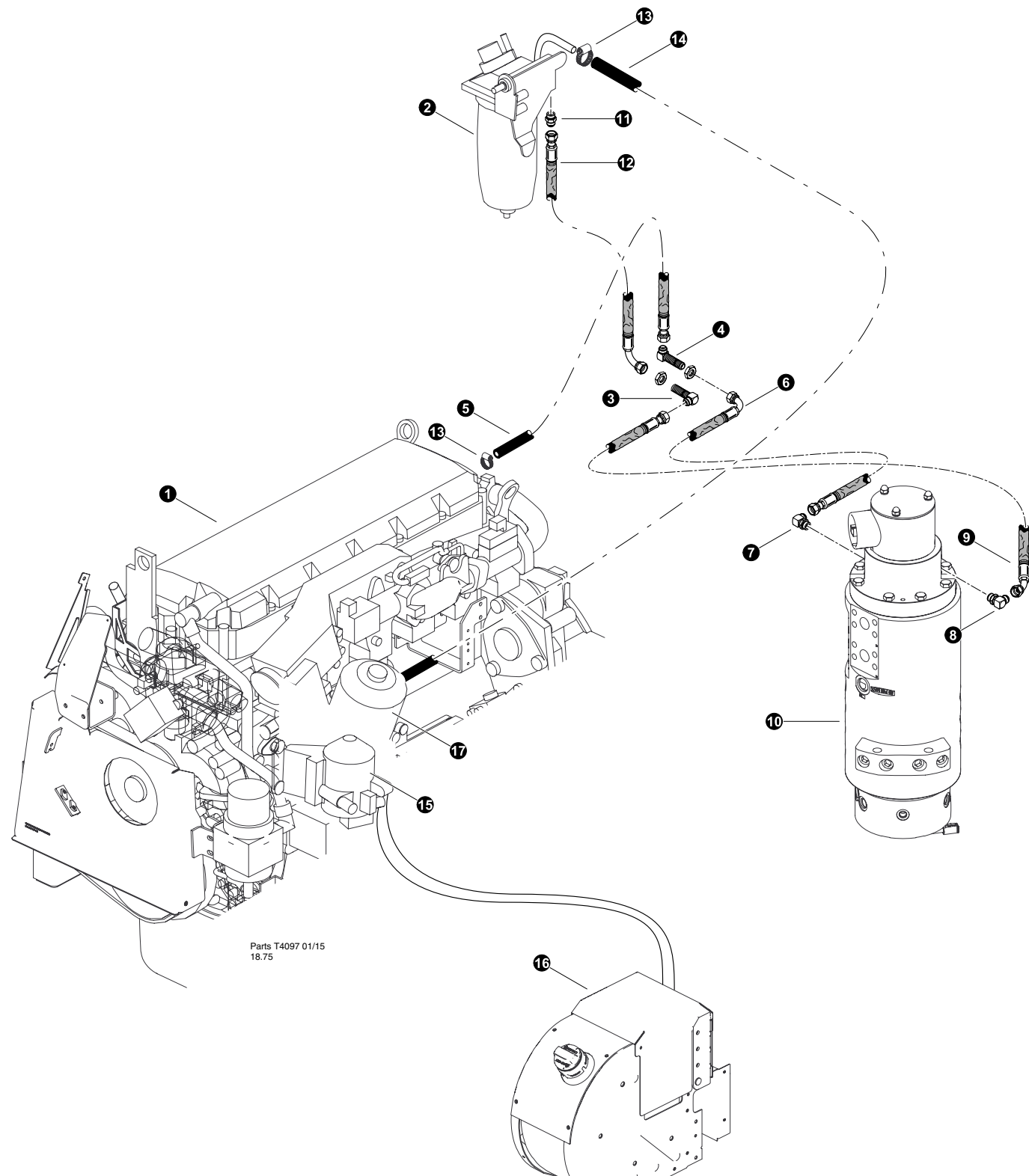
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ENGINE, VOLVO Tier4	EE-2
2	46982-EE	1		PLATE, SENSOR MODULE MOUNT - VOLVO	
3	46704-EE	1		SHROUD, FAN - VOLVO	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

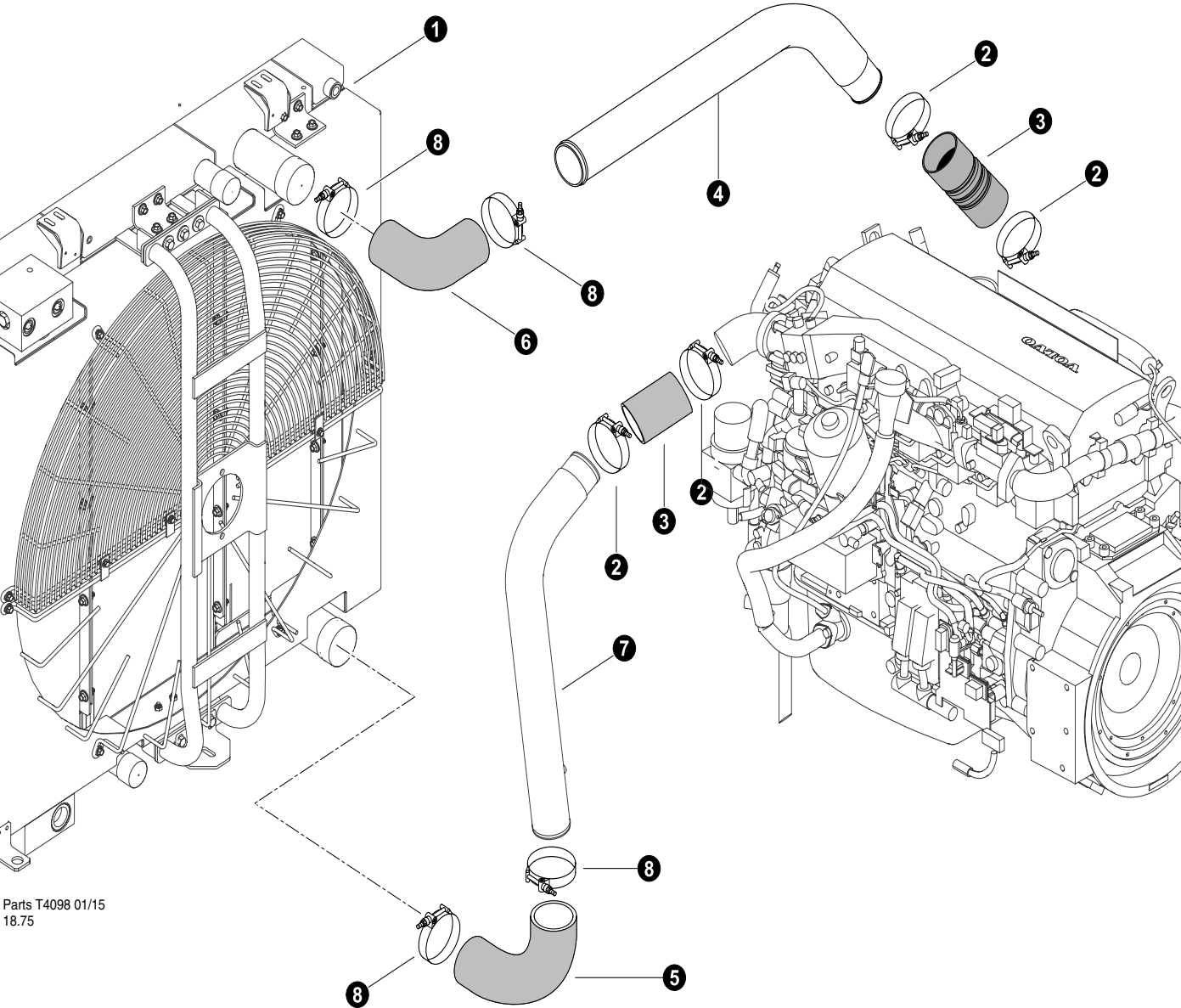


FUEL LINES, and Filters

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ENGINE, VOLVO Tier4	EE-2
2	57225-EE	1		FILTER, Spin on Volvo	
3	55347-EE	1		FITTING, ELBOW - BULKHEAD 6 WETX-WLN-S	
4	55347-EE	1		FITTING, ELBOW - BULKHEAD 6 WETX-WLN-S	
5	-EE	1		HOSE ASSEMBLY - 2038-06-0600-06J9-W (<i>Engine Return to Bulkhead</i>)	
6	-EE	1		HOSE ASSEMBLY - 2081-06-06JS-06J9-W (<i>rotary manifold port FR to Bulkhead</i>)	
7	15480-EE	1		ELBOW, 90 - 6801-6	
8	15480-EE	1		ELBOW, 90 - 6801-6	
9	-EE	1		HOSE ASSEMBLY - 2081-06-06JS-06J4-W (<i>rotary manifold port FS to Bulkhead</i>)	
10	REF	1		ROTARY MANIFOLD.	UP-1
11	55204-EE	1		FITTING, STRAIGHT - 6 FTX-S	
12	-EE	1		HOSE ASSEMBLY - 2027-06-06JS-06J9-W (<i>Filter Supply to Bulkhead</i>)	
13	10759-EE	1		CLAMP, HOSE - WORM STYLE - .875"	
14	25124-EE	36		HOSE, FUEL LINE (BULK ROLL) - .375"	
15	57229-EE	1		FUEL FILTER	
16	46740-EE	1		TANK, UREA - C SERIES	
17	21913334	1		FILTER, Oil Kit Volvo Tier4	



See referenced page for component or assembly breakdown.



Parts T4098 01/15
18.75

CHARGE AIR

(Air To Air Connections Tier 4 Volvo)

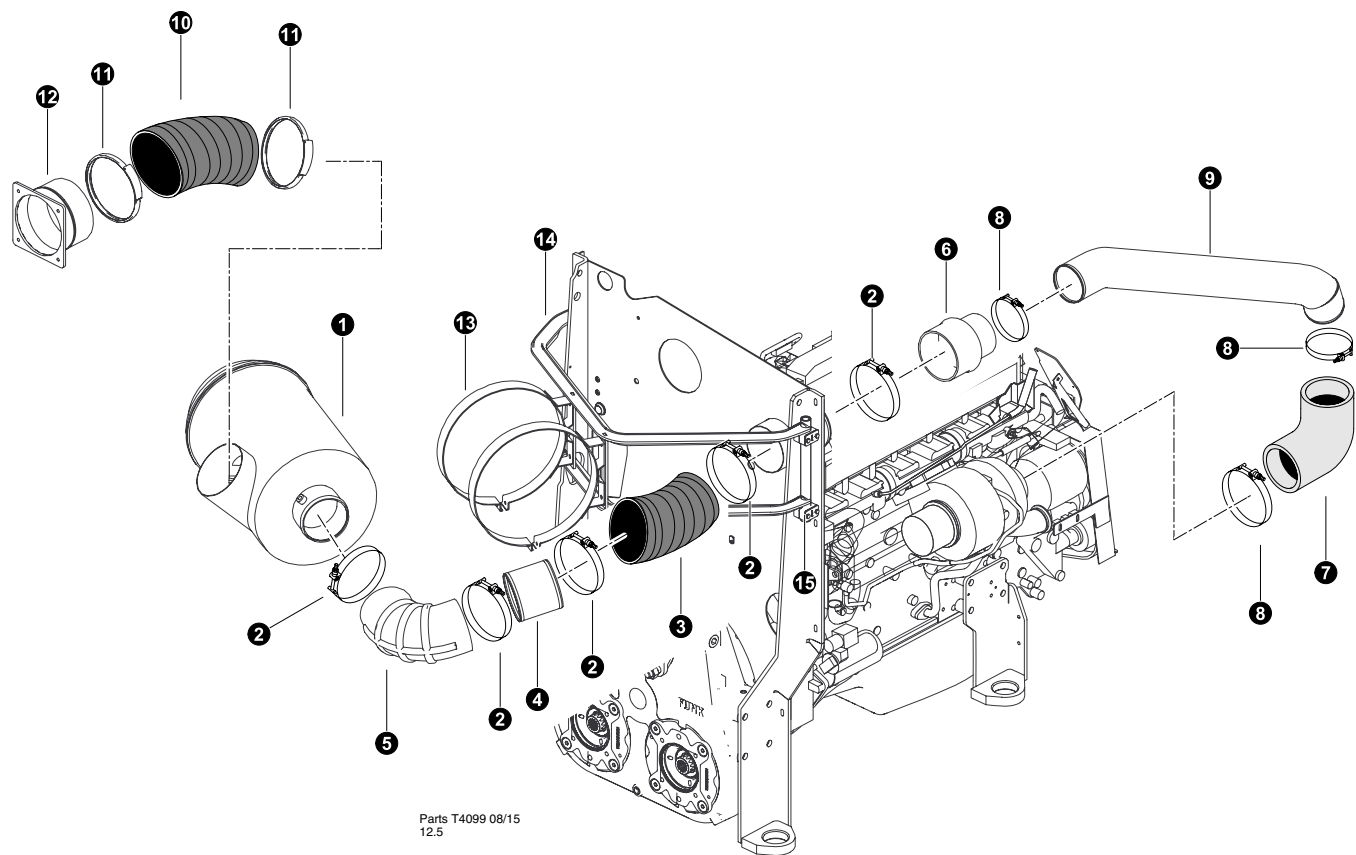
REF	PART #	QTY		DESCRIPTI ON	SEE SECTION
1	REF.	1		RADIATOR / AIR COOLER ASSEMBLY	EE-3
2	55384-EE	6		CLAMP, STRAP BAND - 3.25"	
3	55599-EE	4		HOSE, HUMP - 3" x 6" - VOLVO C SERIES	
4	46665-EE	1		TUBE, AIR TO AIR (UPPER) VOLVO	
5	52753-EE	1		ELBOW, 90 - 3.5" X 6" SILICONE C-SERIES	
6	52753-EE	1		ELBOW, 90 - 3.5" X 6" SILICONE C-SERIES	
7	46666-EE	1		TUBE, AIR TO AIR (LOWER) VOLVO	
8	16337-EE	4		CLAMP, STRAP BAND - 4"	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

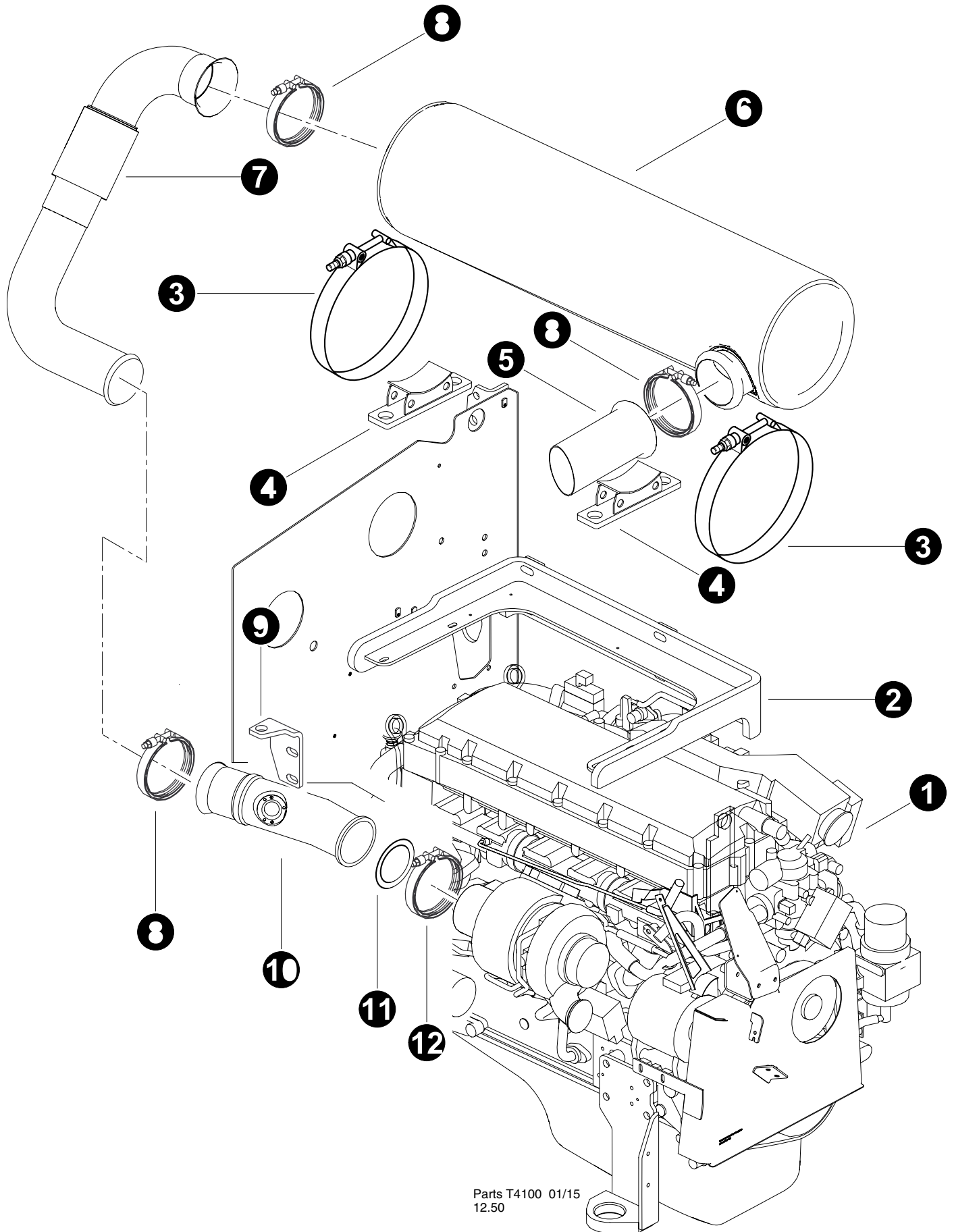


AIR CLEANER INSTALLATION**(Tier 4 Volvo)**

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		AIR CLEANER ASSEMBLY	EE-1
2	16249-EE	5		CLAMP, strap band - 5-1/2"	
3	55576-EE	36"		HOSE, DUCT - AIR CLEANER TO ENGINE - 5"	
4	46374-EE	1		TUBE, AIR CLEANER / TURBO	
5	55530-EE	1		ELBOW, RUBBER - 90 DEGREE 5" X 5"	
6	52056-EE	1		HOSE, HUMP - 5" X 4"	
7	NSS			ELBOW, VOLVO TURBO	
8	15697-EE	1		CLAMP, strap band - 4-1/2"	
9	46873-EE	1		TUBE, AIR INTAKE - VOLVO TIER 4	
10	55578-EE	16"		HOSE, DUCT - AIR CLEANER TO UPPER - 6"	
11	55579-EE	2		CLAMP, DUCT HOSE - 6"	
12	46868-EE	1		WELDMENT, AIR INTAKE FLANGE - VOLVO	
13	20450-EE	2		CLAMP, air cleaner band	
14	46878-EE	1		MOUNT, AIR CLEANER - SWING OUT	
15	52992-EE	2		CLAMP, STEEL TUBELINE	



See referenced page for component or assembly breakdown.



Parts T4100 01/15
12.50

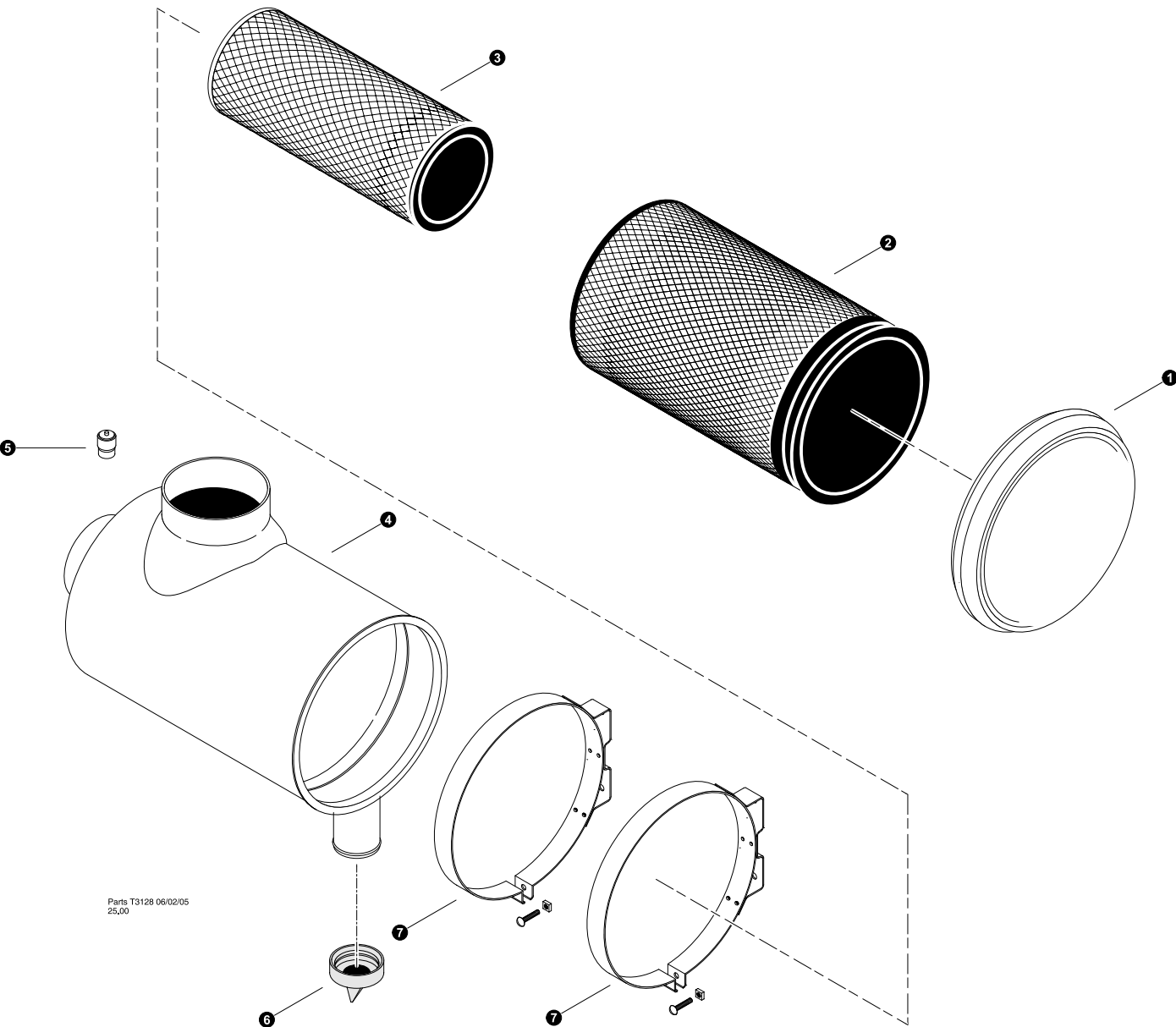
MUFFLER INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	REF.	1	 ENGINE, VOLVO Tier4	EE-2
2	46865-EE	1	MOUNT, SCR - VOLVO	
3	22280220	2	STRAP, MUFFLER - C SERIES	
4	47100-EE	2	WELDMENT, SCR MTG BASE	
5	47127-EE	1	PIPE, EXHAUST - VOLVO TIER 4F	
6	57223-EE	1	SCR, MUFFLER - VOLVO ENGINE	
-	55443-EE	1	INSULATION, MUFFLER - VOLVO TIER 4F	
7	46770-EE	1	TUBE, EXHAUST W/FLEX JOINT - VOLVO	
-	55442-EE	1	INSULATION, VOLVO - TIER 4F EXHAUST PIPES AND TURBO	
8	22197483	4	CLAMP, VOLVO EXHAUST	
9	46875-EE	1	SUPPORT, EXHAUST - TEIR 4	
10	46772-EE	1	TUBE, TURBO OUTLET SCR INJECTION - VOLVO	
11	-EE	1	SEAL, VOLVO TURBO	
12	22197483	3	CLAMP, VOLVO EXHAUST	

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See referenced page for component or assembly breakdown.



AIR CLEANER ASSEMBLY

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	51729-EE	1	☐	AIR CLEANER ASSEMBLY - 830/630	
1	---	1		COVER - AIR CLEANER	
2	51756-EE	1		FILTER, air cleaner - primary	
3	51757-EE	1		FILTER, air cleaner - secondary	
4	---	1		CANISTER, air cleaner	
5	16114-EE	1		INDICATOR, air cleaner filter service	
6	52053-EE	1		BOOT, Air Cleaner Dust	
7	20450-EE	2	☐	CLAMP, air cleaner band	
-	15591-EE	1		BOLT - 5/16" x 1-1/2"	
-	10788-EE	1		NUT, nylock - 5/16"	

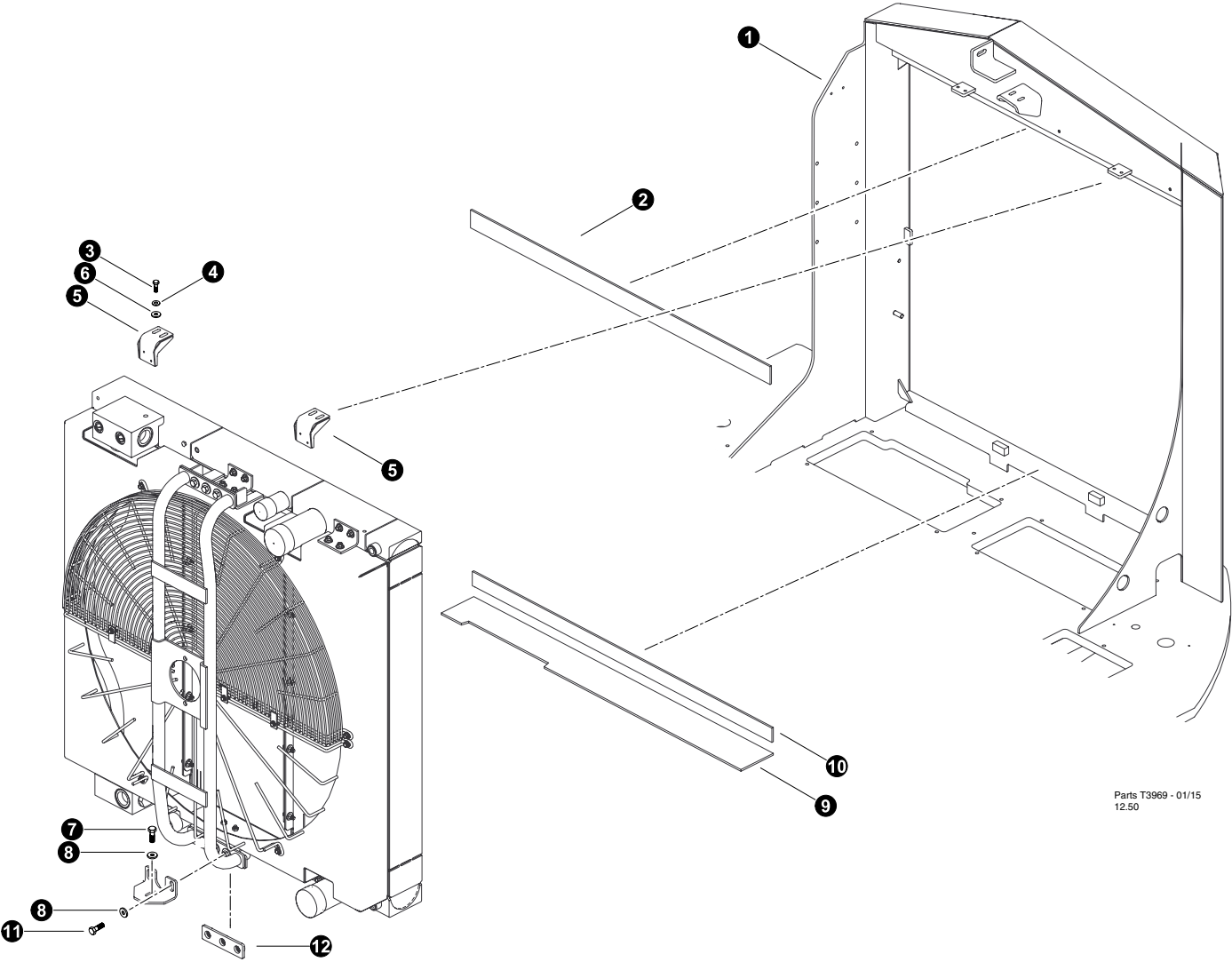
☐ Kit or Assembly - includes all items indented underneath.

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Section EE-3

Engine - Cooling System Installation

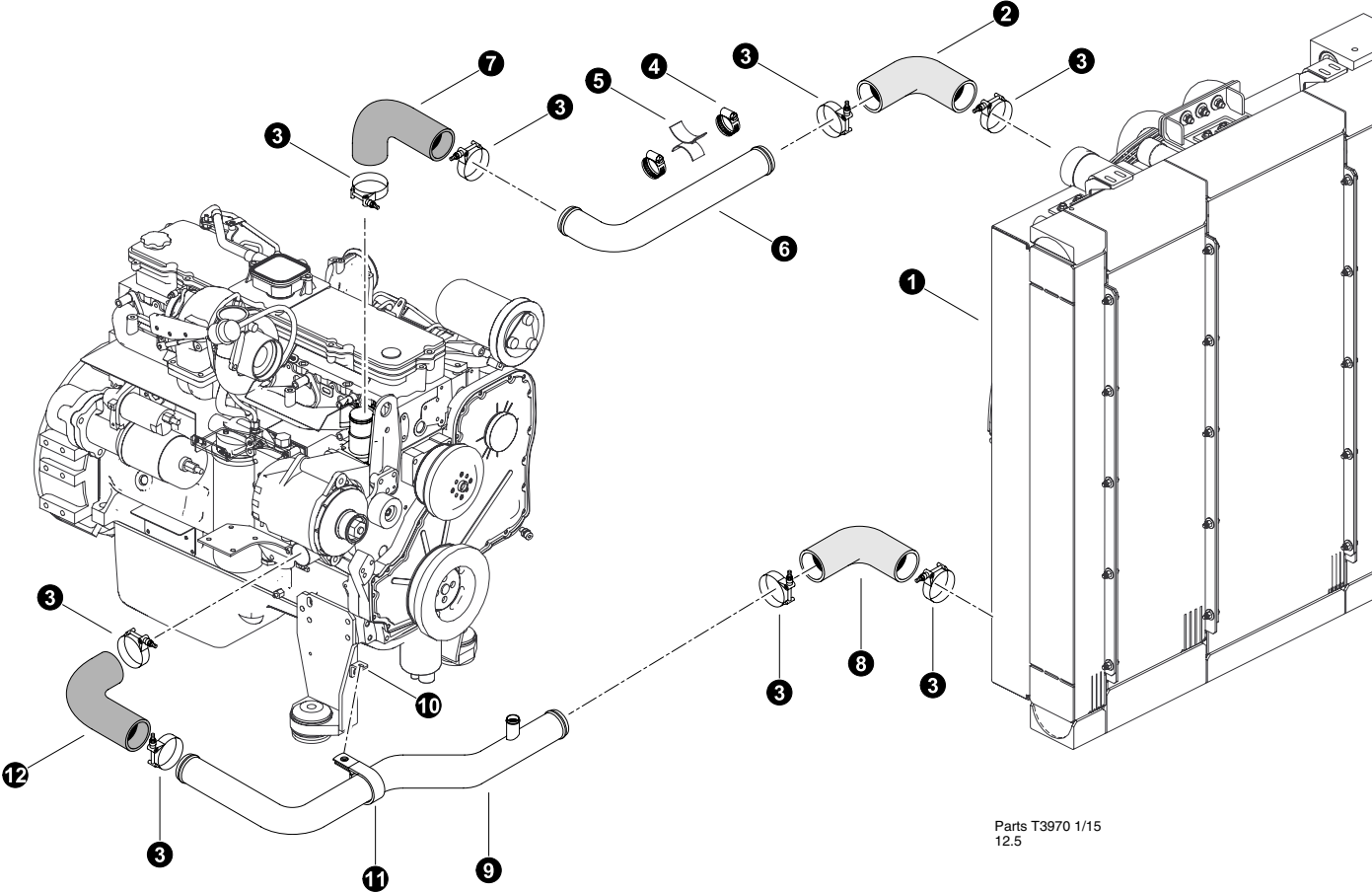


Parts T3969 - 01/15
12.50

RADIATOR/OIL & COOLER INSTALATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		UPPER TURNTABLE ASSEMBLY	UP-1
2	46631-EE	2		RUBBER, FLAP - COOLER UPPER (C-SERIES)	
3	10402-EE	4		BOLT - .375" X 1.25"	
4	15528-EE	4		WASHER, SAE FLAT - .375"	
5	46763-EE	2		CLAMP, COOLER MOUNT - C SERIES	
6	10802-EE	4		WASHER, FLAT - .375"	
7	10783-EE	1		BOLT - .5" X 1"	
8	15534-EE	3		WASHER, SAE FLAT - .5"	
9	46629-EE	1		RUBBER, FLAP - COOLER LOWER (C SERIES)	
10	46630-EE	1		RUBBER, FLAP - COOLER FRONT (C SERIES)	
11	10736-EE	2		BOLT - .5" X 2"	
12	46177-EE	1		BAR, MOUNT PLATE	

 See referenced page for component or assembly breakdown.



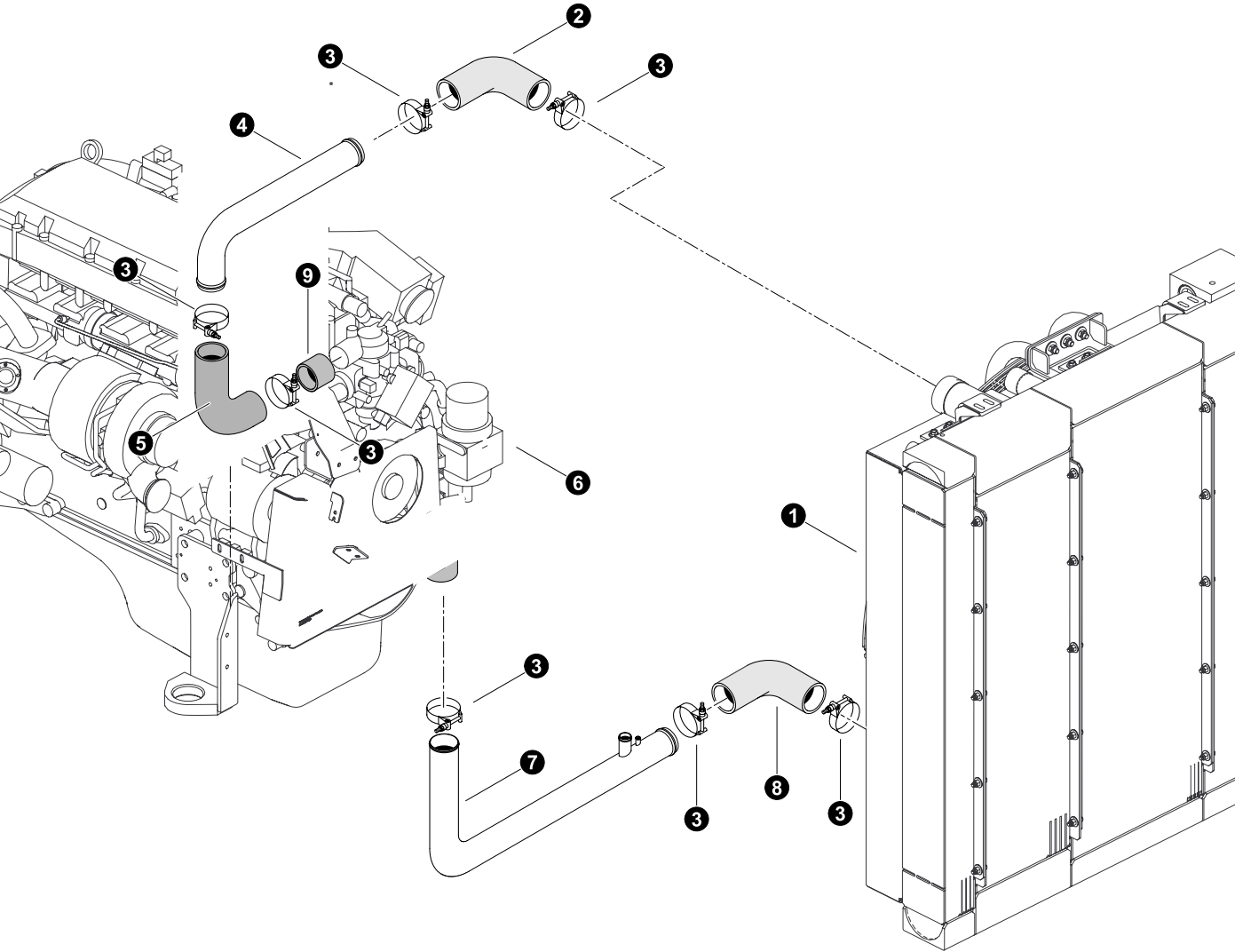
RADIATOR TO ENGINE CONNECTIONS

(QSC 300HP Engine)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		RADIATOR / CHARGE AIR ASSEMBLY	UP-3
2	55583-EE	1		HOSE, 90 DEGREE RADIATOR - 2.5"	
3	18104-EE	8		CLAMP, CONSTANT TORQUE - #40	
4	54788-EE	2		CLAMP, HOSE - WORM STYLE - 2.75"	
5	46844-EE	1		CLAMP, AIR TUBE	
6	46224-EE	1		TUBE, RADIATOR (UPPER) C-SERIES	
7	15617-EE	1		HOSE, 90 DEGREE RADIATOR - 2.5"	
8	15617-EE	1		HOSE, 90 DEGREE RADIATOR - 2.5"	
9	46227-EE	1		TUBE, RADIATOR (LOWER) C-SERIES	
10	46421-EE	1		BRACKET, COOLER LINE SUPPORT	
11	0708827	1		CLAMP, Rubber Coated	
12	15617-EE	1		HOSE, 90 DEGREE RADIATOR - 2.5"	



See referenced page for component or assembly breakdown.



Parts T4102 1/15
12.5

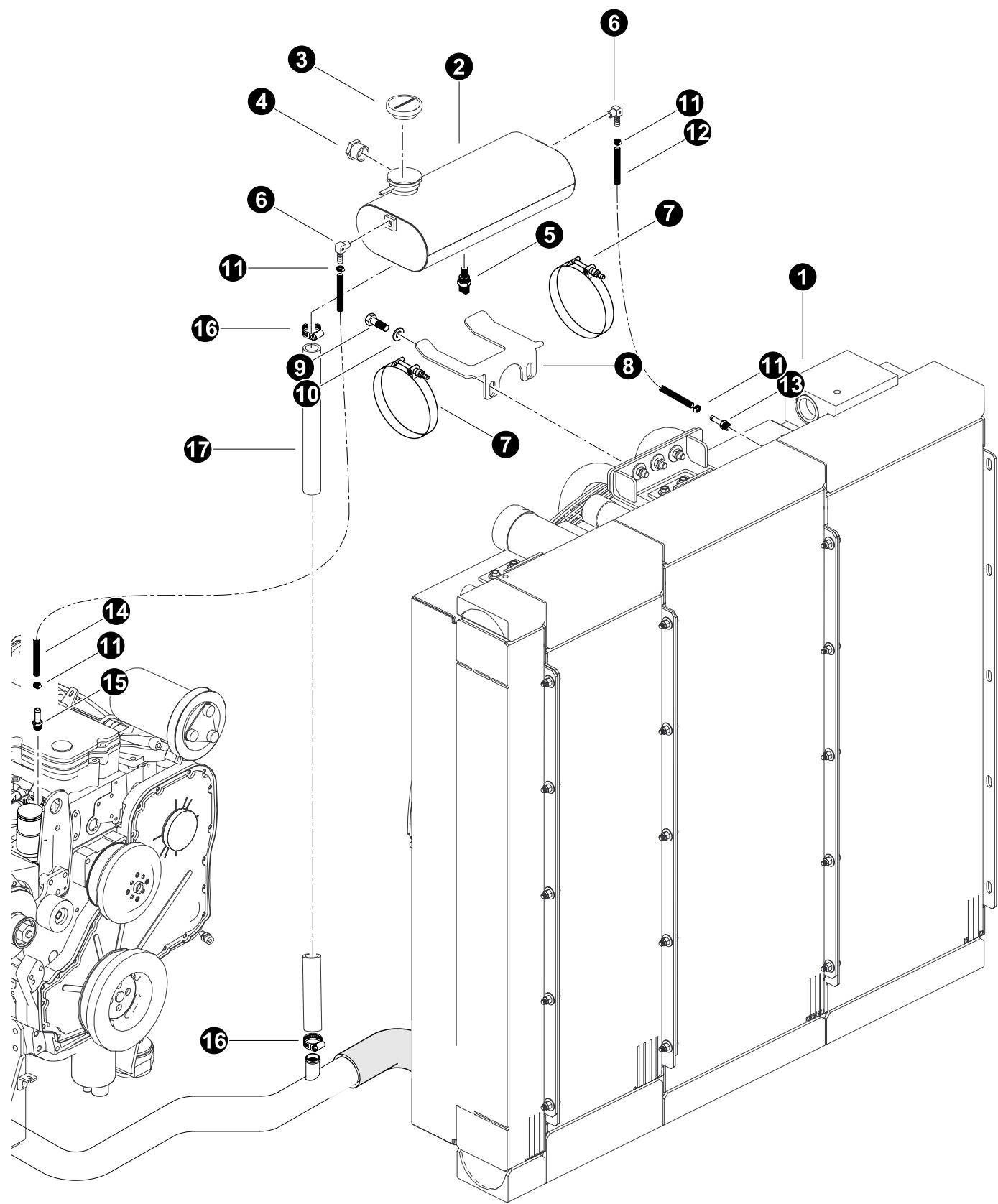
RADIATOR TO ENGINE CONNECTIONS

(Volvo Tier4 Engine)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		RADIATOR / CHARGE AIR ASSEMBLY	UP-3
2	55583-EE	1		HOSE, 90 DEGREE RADIATOR - 2.5"	
3	18104-EE	8		CLAMP, CONSTANT TORQUE - #40	
4	46667-EE	1		TUBE, RAD LOWER TIER 4 VOLVO	
5	15617-EE	1		HOSE, 90 DEGREE RADIATOR - 2.5"	
6	REF	1		VOLVO TIER4	EE-2
7	46668-EE	1		TUBE, RAD LOWER TIER 4 VOLVO	
8	55583-EE	1		HOSE, 90 DEGREE RADIATOR - 2.5"	
9	55504-EE	1		ADAPTER, HOSE - 2.25" TO 2" - VOLVO	



See referenced page for component or assembly breakdown.



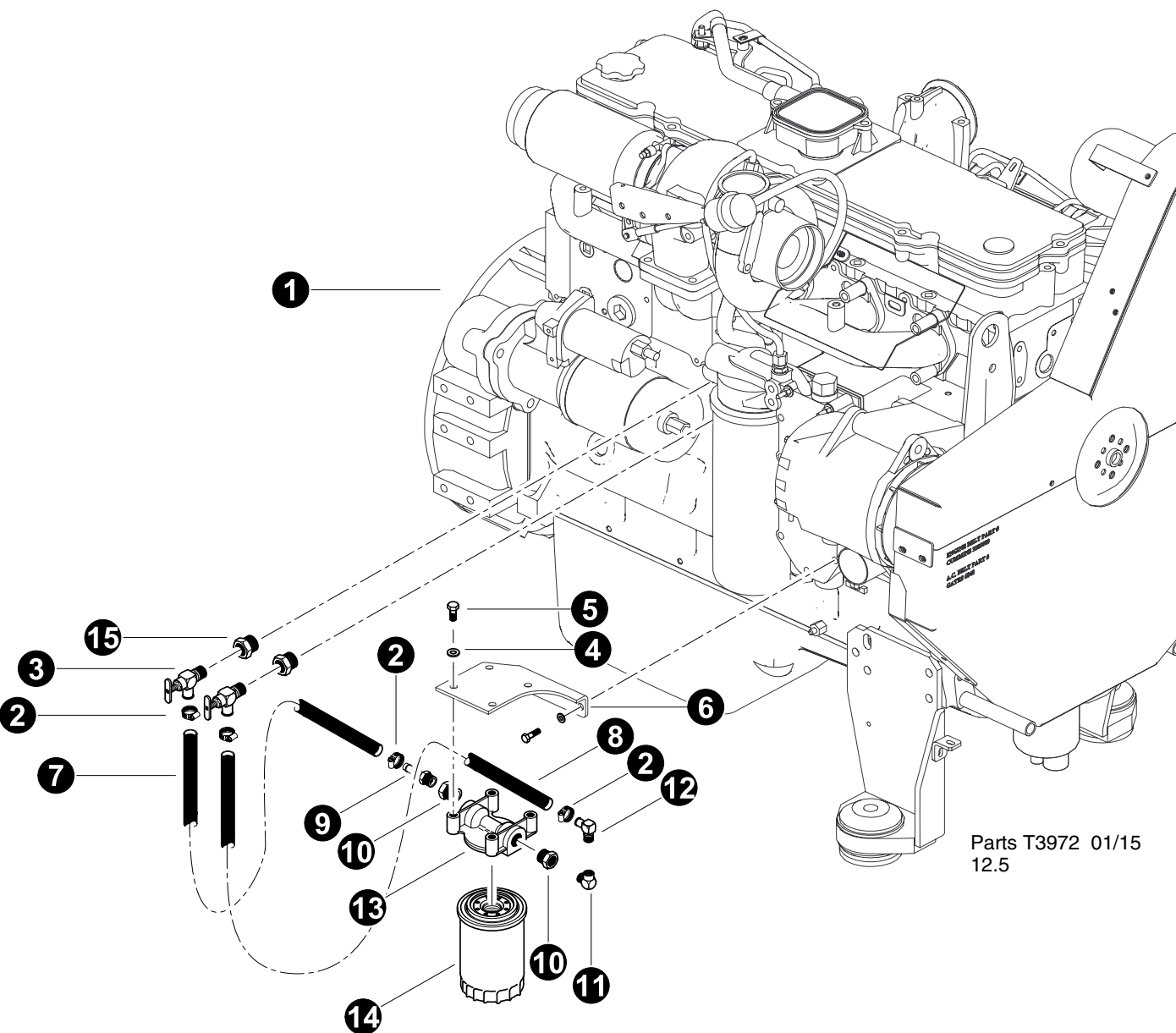
Parts T3971 1/15
12.5

OVER FLOW TANK CONNECTIONS

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		RADIATOR / CHARGE AIR ASSEMBLY	UP-3
2	46280-EE	1		WELDMENT, BURP TANK C-MODEL	
3	15897-EE	1		CAP, RADIATOR - 7 PSI	
4	24308-EE	1		SIGHT GLASS - HYDRAULIC TANK	
5	52661-EE	1		SENSOR, LOW COOLANT - TIER 3	
6	52586-EE	2		ELBOW, 90 MALE HOSE BARB 6-4	
7	18828-EE	2		CLAMP, STRAP BAND - 6.75"	
8	46278-EE	1		PLATE, BURP TANK MTG-C-MODEL TIER III	
9	10736-EE	2		BOLT - .5" X 2"	
10	15534-EE	2		WASHER, SAE FLAT - .5"	
11	16202-EE	4		CLAMP, HOSE - WORM STYLE - .625"	
12	16283-EE	-		HOSE, FUEL LINE (BULK ROLL) - .3125"	
13	16989-EE	1		CONNECTOR, STR HOSE BARB - 4245-5-2	
14	16283-EE	-		HOSE, FUEL LINE (BULK ROLL) - .3125"	
15	-EE	1		CONNECTOR, STR HOSE BARB (cummins with coolant orifice)	
16	16256-EE	2		CLAMP, HOSE - WORM STYLE - 1"	
17	15677-EE	-		HOSE, HEATER - (BULK ROLL) 1" X 50'	



See referenced page for component or assembly breakdown.



COOLANT FILTER INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		CUMMINS QSC ENGINE	EE-1
2	16202-EE	4		CLAMP, HOSE - WORM STYLE - .625"	
3	179901	2		VALVE, Shut-Off Cummins Water	
4	15528-EE	4		WASHER, SAE FLAT - .375"	
5	11707-EE	4		BOLT - .375" X 1"	
6	46739-EE	1		PLATE, WATER - FLITER SUPPORT - CUMMINS	
7	16283-EE	-		HOSE, FUEL LINE (BULK ROLL) - .3125"	
8	16283-EE	-		HOSE, FUEL LINE (BULK ROLL) - .3125"	
9	16989-EE	1		CONNECTOR, STR HOSE BARB - 4245-5-2	
10	11318-EE	1		BUSHING, REDUCER - 5406-6-4	
11	24288-EE	1		BUSHING, BRASS - .375 X .75	
12	52586-EE	1		ELBOW, 90 MALE HOSE BARB 6-4	
13	16574-EE	1		MOUNT, FILTER HEAD ASSEMBLY	
14	20445-EE	1		FILTER, COOLANT - CUMMINS C SERIES	
15	24288-EE	2		BUSHING, BRASS - .375 X .75	

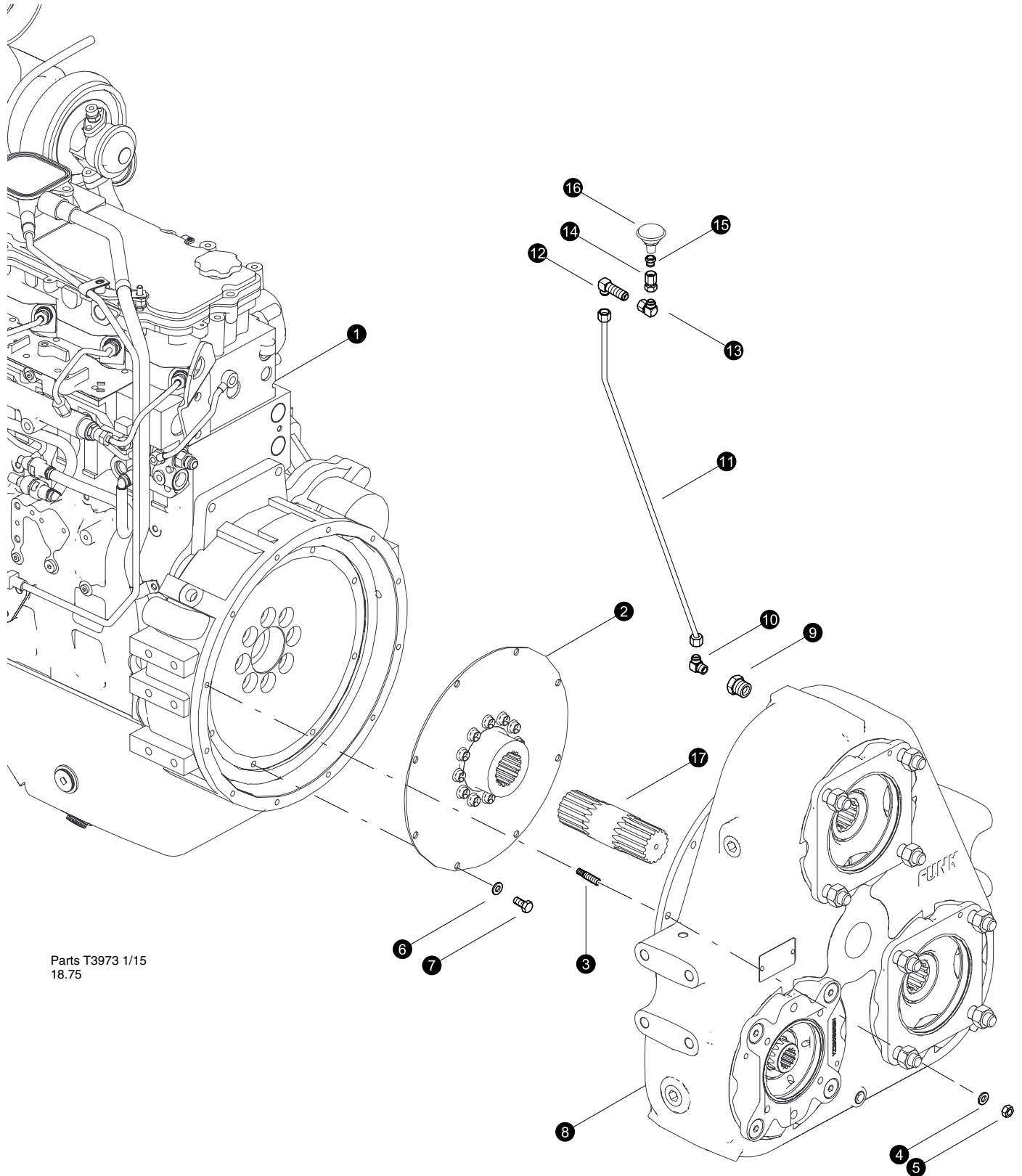


See referenced page for component or assembly breakdown.

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Section EE-4

Engine - Pump Drive Transmission



PUMP DRIVE TRANSMISSION INSTALLATION (Funk)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ENGINE - Cummins QSC8.3.	EE-1
2	18028-EE	1		DRIVEPLATE ASSY. - FUNK	
3	15531-EE	12		STUD, threaded - 10mm x 45mm (See Note #1 below)	
4	15528-EE	12		WASHER, SAE flat - 3/8"	
5	15530-EE	12		NUT, hex - 10mm (See Note #2 below) (Torque to 40 ft.lbs. (53 Nm))	
6	15528-EE	8		WASHER, SAE flat - 3/8"	
7	15542-EE	8		BOLT - 3/8" x 3/4" (See Note #1 below) (Torque to 40 ft.lbs. (53 Nm))	
8	REF.	1		PUMP DRIVE TRANSMISSION	EE-4
9	11312-EE	1		BUSHING, REDUCER - 5406-8-4	
10	55205-EE	1		FITTING, ELBOW - 6 CTX-S	
11	55647-EE	1		TUBELINE, GEAR BOX VENT - CUMMINS	
12	55347-EE	1		FITTING, ELBOW - BULKHEAD 6 WETX-WLN-S	
13	16661-EE	1		ELBOW, 90 SWIVEL - 6500-6	
14	-EE	1		FITTING - 6-6 G6X-S	
15	11318-EE	1		BUSHING, REDUCER - 5406-6-4	
16	21304-EE	1		VENT - YZ106688	
17	18388-EE	1		SHAFT, drive	

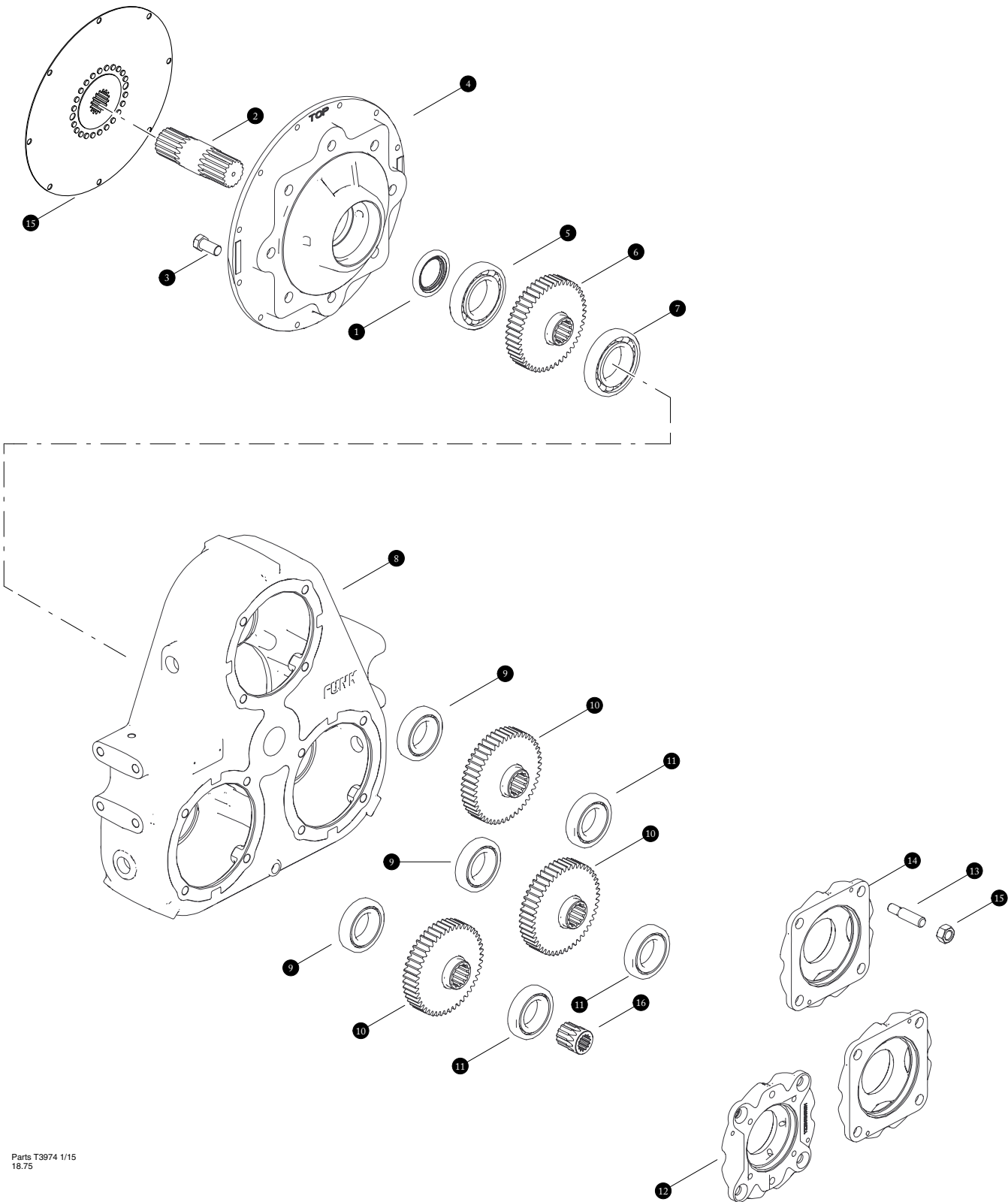
 See referenced page for component or assembly breakdown.

Note #1:

Use Loctite 271 (*red*) during installation.

Note #2:

Use Loctite 272 (*blue*) during installation.



Parts T3974 1/15
18.75

PUMP DRIVE TRANSMISSION BREAKDOWN

(Cummins QSC8.3L Gear Box)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	55673-EE	1	☐	TRANSMISSION, TRIPLE PUMP DRIVE - C TRACK	
1	18027-EE	1		SEAL, shaft	
2	18388-EE	1		SHAFT, drive	
3	F1008024-EE	8		BOLT, flywheel cover (See Note #1 Below)	
4	4059411 -EE	1		COVER, engine adapter housing (See Note #2 Below)	
5	18891-EE	1		BEARING, input gear - front	
6	54401-EE	1		GEAR, 65 Teeth	
7	18892-EE	1		BEARING, input gear - rear	
8	YZ101822-EE	1		HOUSING,	
9	16892-EE	3		BEARING,	
10	51408-EE	3		GEAR,	
11	16892-EE	3		BEARING,	
12	54767-EE	2		ADAPTER, pump pad (SAE "C")(Used with track drive pumps)(See Note #2 Below)	
13	18293-EE	4		STUD, "D" Mount (See Note #1)	
14	18292-EE	1		ADAPTER, pump pad (SAE "D")(See Note #2 Below)	
15	10776-EE	4		NUT, hex - 3/4"	
16	16330-EE	1		ADAPTER, Sleeve 14 tooth "C"	

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

Note #1:

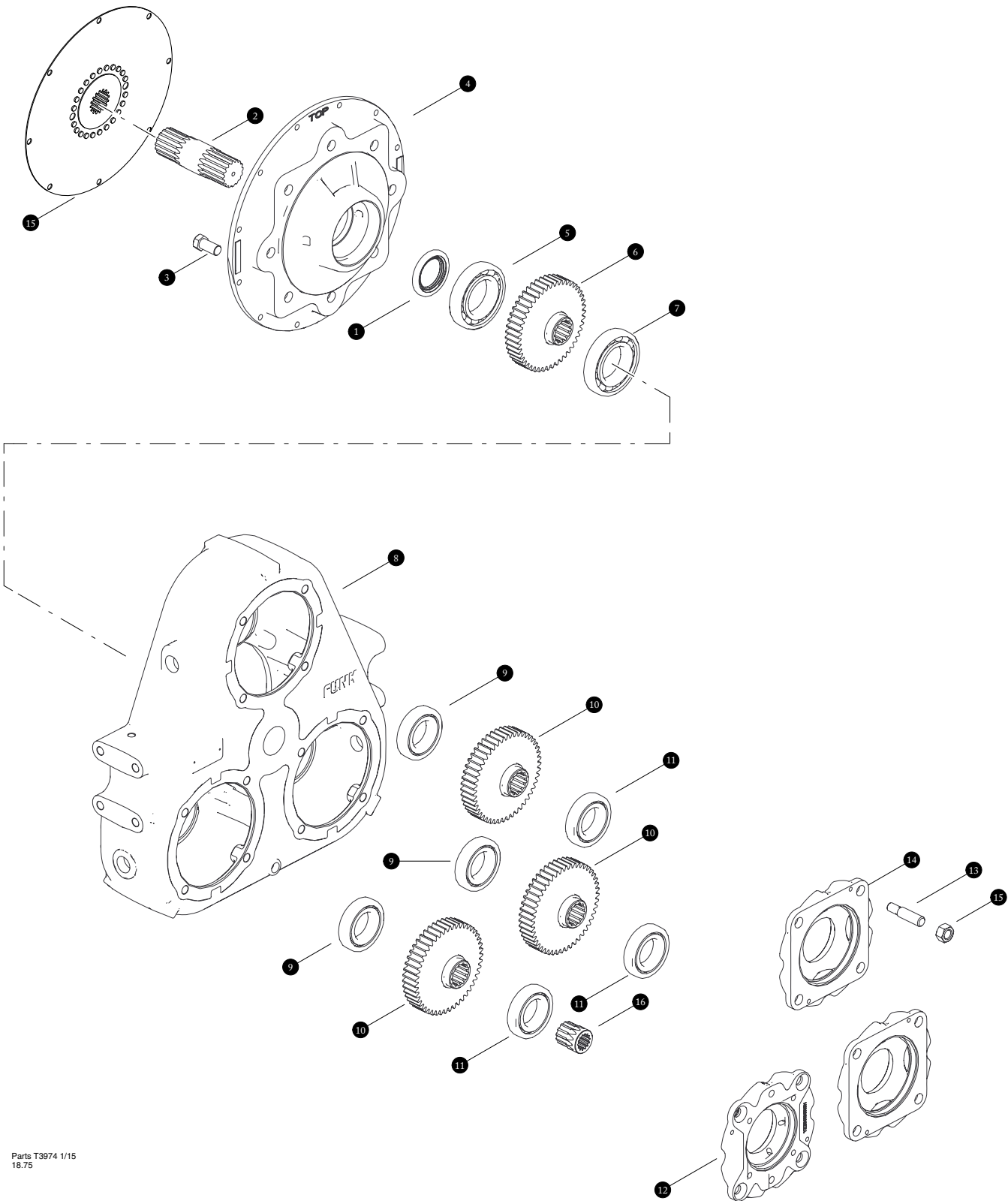
Use Loctite 272 (blue) during installation.

Note #2:

Use Silicone sealant during installation.

Note #3:

Use teflon sealant during installation.



Parts T3974 1/15
18.75

PUMP DRIVE TRANSMISSION BREAKDOWN (Volvo Tier4 Gear Box)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	55502-EE	1	☐	TRANSMISSION, triple pump drive (.723:1)	
1	18027-EE	1		SEAL, shaft	
2	18388-EE	1		SHAFT, drive	
3	F1008024-EE	8		BOLT, flywheel cover (See Note #1 Below)	
4	-EE	1		COVER, engine adapter housing (See Note #2 Below)	
5	18891-EE	1		BEARING, input gear - front	
6	54401-EE	1		GEAR, 65 Teeth	
7	18892-EE	1		BEARING, input gear - rear	
8	YZ101822-EE	1		HOUSING,	
9	16892-EE	3		BEARING,	
10	51408-EE	3		GEAR,	
11	16892-EE	3		BEARING,	
12	54767-EE	2		ADAPTER, pump pad (SAE "C")(Used with track drive pumps)(See Note #2 Below)	
13	18293-EE	4		STUD, "D" Mount (See Note #1)	
14	18292-EE	1		ADAPTER, pump pad (SAE "D")(See Note #2 Below)	
15	10776-EE	4		NUT, hex - 3/4"	
16	16330-EE	1		ADAPTER, Sleeve 14 tooth "C"	

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

Note #1:

Use Loctite 272 (blue) during installation.

Note #2:

Use Silicone sealant during installation.

Note #3:

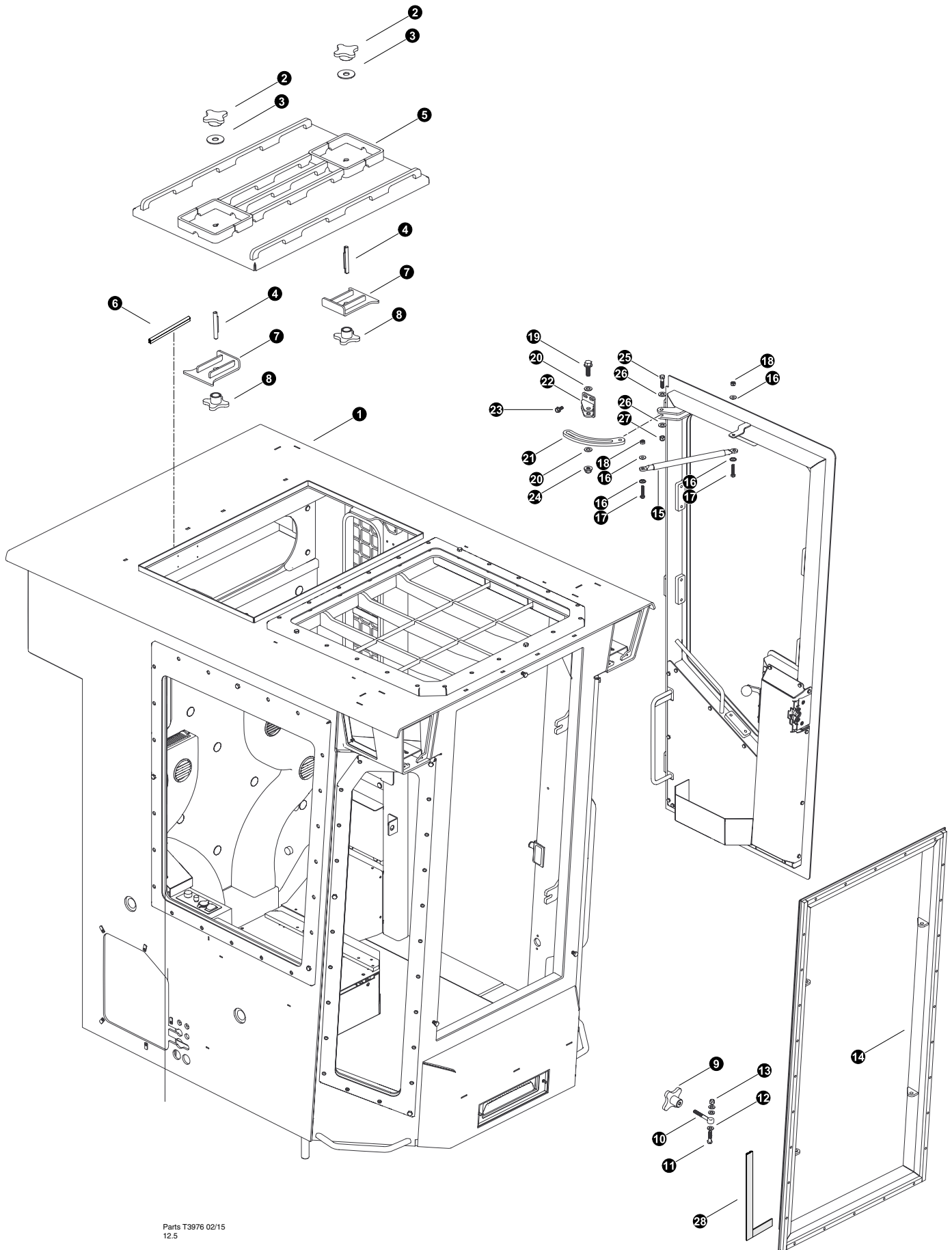
Use teflon sealant during installation.

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OC-1

Operator's Cab - Cab Weldment and Installation



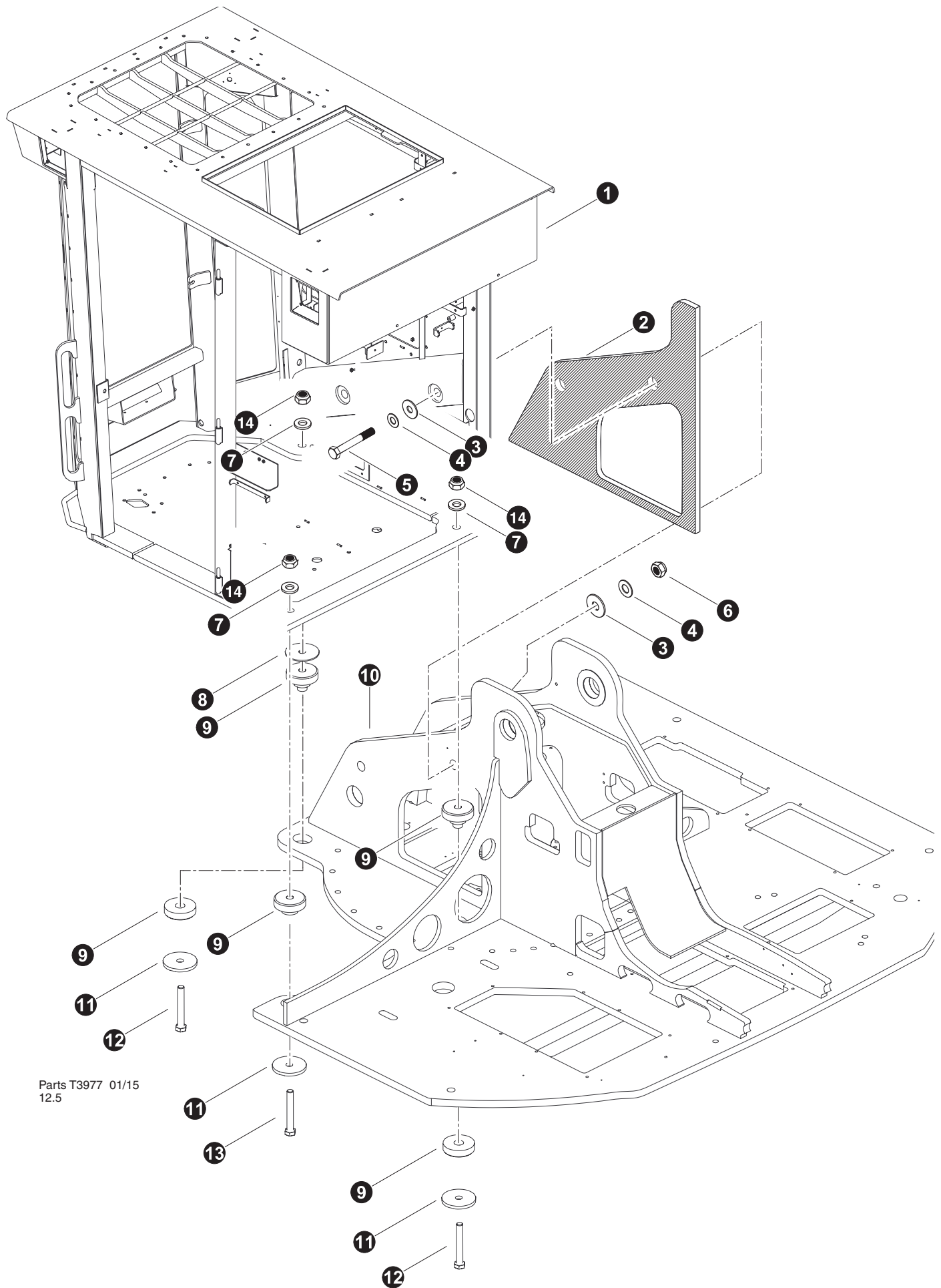
Parts T3976 02/15
12.5

CAB WELDMENT ASSEMBLY

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	55128-OC	1	☐	WELDMENT, CAB - TIER 4F (C-SERIES LH)	
2	52060-OC	2		KNOB, STAR - EMERGENCY ESCAPE	
3	63246-OC	2		SEAL, EMERGENCY ESCAPE	
4	G2319-OC	2		STUD, 2-WAY - .5" X 3.5"	
5	1047750-OC	1		HATCH, ESCAPE - ROOF	
6	06212-OC	10 ft	✂	WEATHERSTRIPPING	
7	1047752-OC	2		BRACKET, EMERGENCY ESCAPE	
8	06214-00-OC	2		KNOB, STAR - EMERGENCY ESCAPE INSIDE ROOF	
9	13293-00-OC	4		KNOB, STAR - EMERGENCY ESCAPE INSIDE FRONT	
10	63388-OC	4		SWING BOLT	
11	20084-OC	4		BOLT - .375" X 1.75"	
12	15528-OC	12		WASHER, SAE FLAT - .375"	
13	10813-OC	4		NUT, LOCK - .375"	
14	1049497-OC	1		WELDMENT, KICKOUT WINDOW	
15	1045848-OC	1		SHOCK, Door	
16	1012571-OC	4		WASHER, Door Shock	
17	18016-OC	2		BOLT, Door Shock	
18	63216-OC	2		NUT, Door Shock	
19	63525-OC	1		BOLT, Door Stop	
20	63505-OC	4		WASHER,	
21	1045838-OC	1		BRACKET, Door Stop	
22	13260-00-OC	1		BRACKET, Door Stop	
23	18003-OC	4		BOLT, Door Stop Bracket	
24	63506-OC	1		NUT	
25	63165-OC	1		BOLT,	
26	63505-OC	2		WASHER	
27	35002-OC	1		NUT	
28	18126-OC	10 ft	✂	WEATHERSTRIPPING - DOUBLE	

☐ Kit or Assembly - includes all items indented underneath.

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



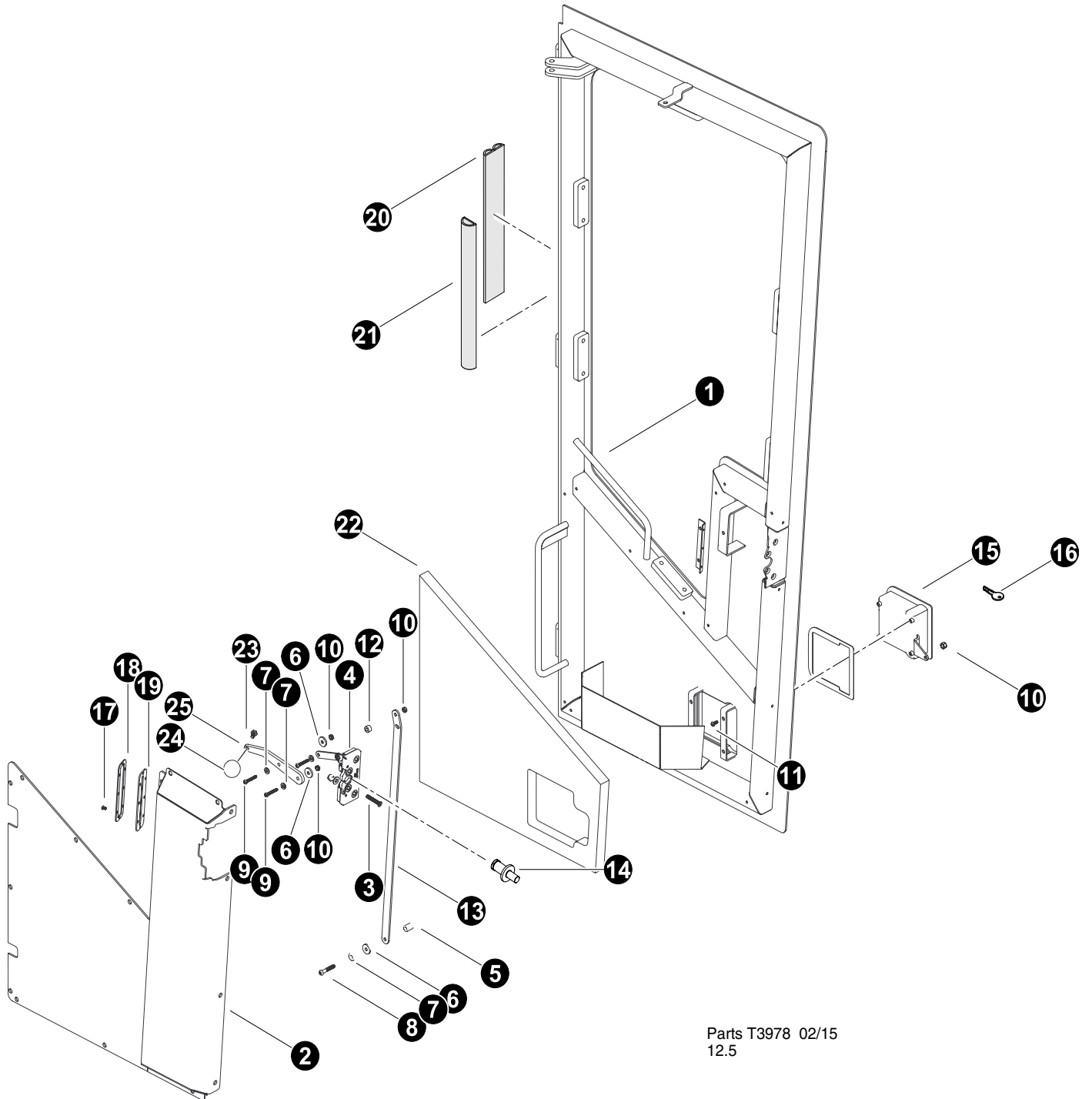
CAB INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		CAB WELDMENT	OC-1
2	46651-OC	1		INSULATION, CAB TO BOOM	
3	17065-OC	4		WASHER, rubber	
4	51320-OC	4		WASHER, SAE FLAT - 1.125"	
5	53856-OC	2		BOLT - 1.125-12 X 7.5" (FINE THREAD)	
6	53857-OC	2		NUT, LOCK - 1.125" (FINE THREAD)	
7	15579-OC	3		WASHER, SAE FLAT - 1"	
8	50061-OC	2		WASHER, cab mount isolator	
9	18141-OC	2		ISOLATOR, CAB MOUNTING	
10	REF.	1		UPPER TURNTABLE ASSEMBLY	UP-1
11	19369-OC	3		WASHER, cab mount isolator - (.5 thick)	
12	23387-OC	2		BOLT - 1" X 6.5" (see note 1 below)	
13	50263-OC	1		BOLT, 1" x 5.5" (see note 1 below)	
14	18253-OC	3		NUT, LOCK - 1"	

 See referenced page for component or assembly breakdown.

Note 1

Use loctite 271 (red) on treads during installation.

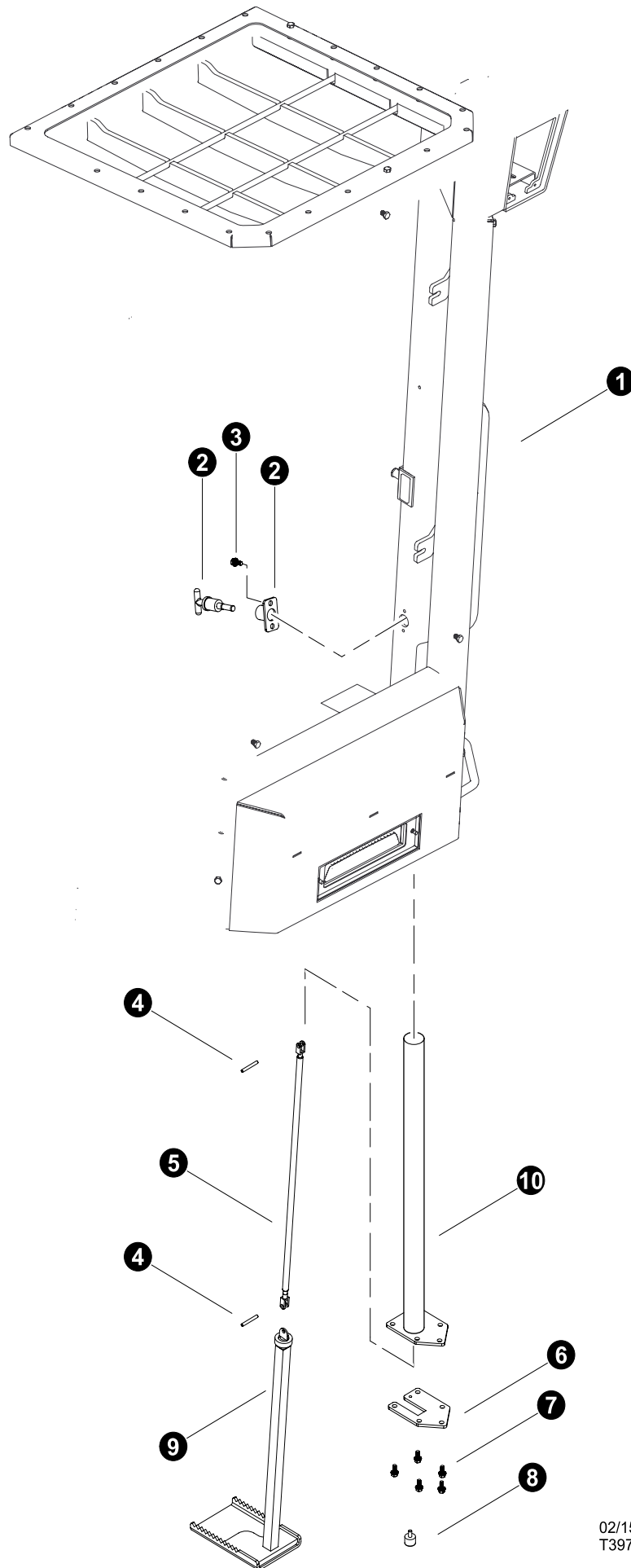


DOOR ASSEMBLY AND LATCH INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	1047486-OC	1	DOOR, CAB (hinges shipped loose)	
2	1047763-OC	1	COVER, DOOR	
3	52068-OC	1	BOLT, COUNTERSUNK (63227)	
4	57306-OC	4	PLATE, DOOR LATCH (63175)	
5	1045877-OC	3	SPACER, DOOR LATCH (included with plate)	
6	63220-OC	1	WASHER - Large	
7	63219-OC	1	WASHER - Small	
8	1050412-OC	2	BOLT	
9	1045876-OC	3	BOLT	
10	35004-OC	3	NUT	
11	24999-OC	4	BOLT	
12	1050409-OC	1	SPACER	
13	1047745-OC	1	BRACKET	
14	1050263-OC	1	PIN, LATCH	
15	55659-OC	1	HANDLE	
16	16940-OC	1	KEY, door (Key code CH1250)	
17	63303-OC	8	SCREW	
18	06149-00-OC	1	BRACKET	
19	06148-00-OC	1	RUBBER	
20	18126-OC	AR	✂ WEATHERSTRIP, door	
21	54050-OC	AR	✂ WEATHERSTRIPPING, RUBBER-REAR DOOR SEAL	
22	1048750-OC	1	FOAM	
23	45040-OC	1	BOLT	
24	18087-OC	1	KNOB	
25	1047746-OC	1	HANDLE	

☐ Kit or Assembly - includes all items indented underneath.

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



02/15
T3979

DOOR STEP INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	REF	1	OPERATOR'S CAB	OC-1
2	54117-OC	1	Bracket, Latch (06490-00)	
3	-OC	2	BOLT, Serated 3/8" X 3/4" (18003)	
-	46530-OC	1	☐ ASSEMBLY, CAB STEP	
4	52781-OC	1	PIN, ROLL - CAB STEP (63187)	
5	54141-OC	1	SHOCK,	
6	54116-OC	1	PLATE, Step Retainer (06496-00)	
7	-OC	3	BOLT, Serated 3/8" X 3/4" (18003)	
8	52780-OC	1	BUMPER, Rubber Stop - Cab Step (63185)	
9	52778-OC	1	WELDMENT, Cab Step (06482-00)	
10	46519-OC	1	FRAME, slide tube	

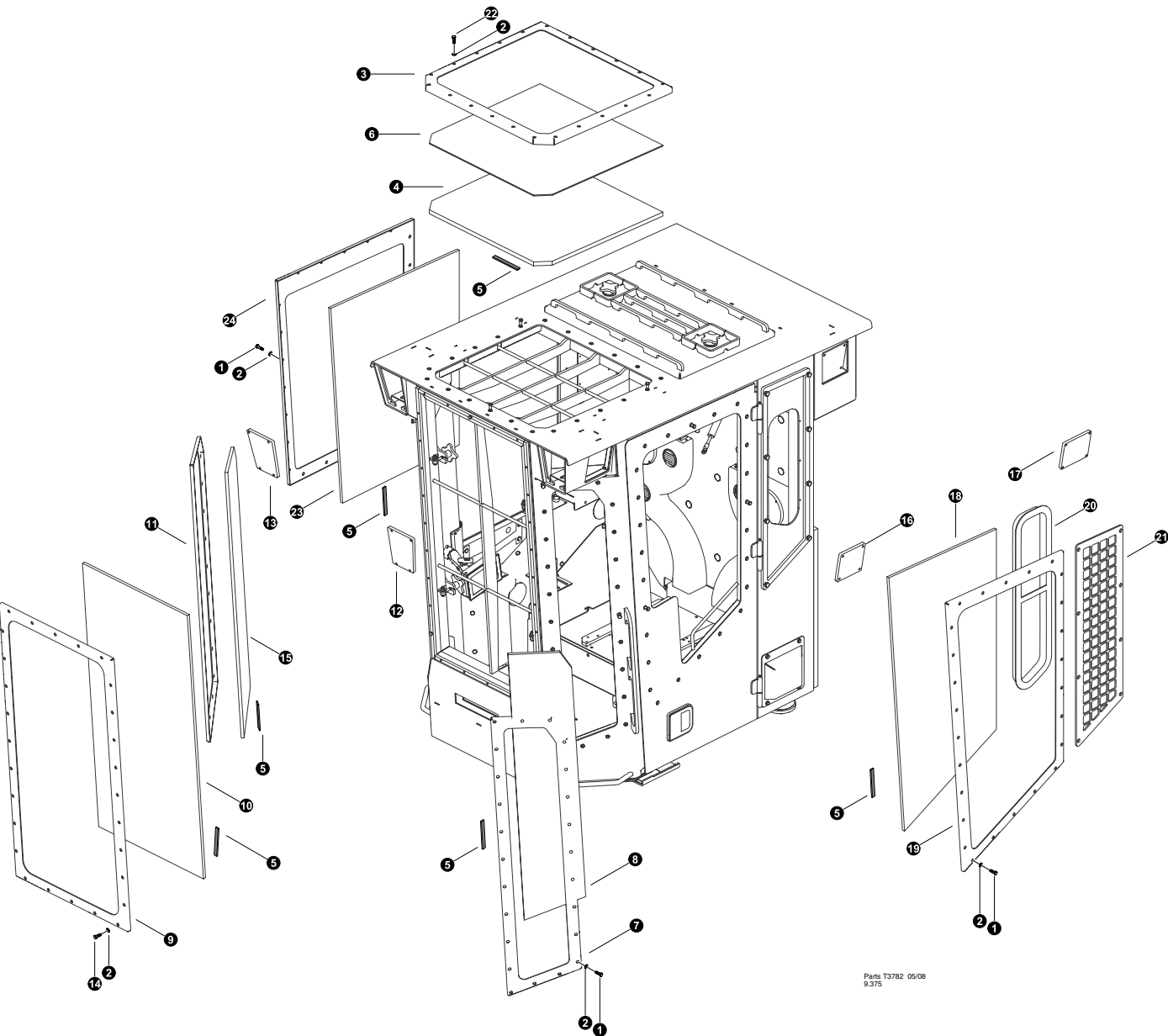
- ☐ Kit or Assembly - includes all items indented underneath.
-  Bulk material - order length required in feet or meters.

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Section OC-2

Operator's Cab - Window Installation



WINDOW INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	10731-OC	22		BOLT - .375" X 1.5"	
2	15528-OC	154		WASHER, SAE FLAT - .375"	
3	13244-00-OC	1		FRAME, TOP WINDOW	
4	53810-OC	1		LEXAN, SKYLITE - FLAT TOP (.75")	
5	18126-OC	AR	✂	WEATHERSTRIPPING, WINDOW	
6	53811-OC	1		LEXAN, SKYLITE - SCRATCH GD	
7	1047748-OC	1		FRAME, LH ANGLED WINDOW	
8	53814-OC	1		LEXAN, LH AND RH FRONT WINDOW .5" thick	
8a	53814-1.25"	1		LEXAN, LH AND RH FRONT WINDOW 1.25" Thick	
9	54634-OC	1		FRAME, FRONT WINDOW - Standard (1/2")	
9	54631-OC	1		FRAME, FRONT WINDOW - 1.25" (Optional)	
10	54632-OC	1		LEXON, FRONT WINDOW - Standard (1/2")	
10	54633-OC	1		LEXON, FRONT WINDOW - 1.25" (Optional)	
11	1047747-OC	1		FRAME, FRONT R.H. SIDE WINDOW	
12	54638-OC	1		LEXAN, TOP/FRONT CAB LIGHT	
13	54638-OC	1		LEXAN, TOP/FRONT CAB LIGHT	
14	15542-OC	30		BOLT - .375" X .75" (standard front window)	
14	20084-OC	30		BOLT - .375" X 1.75" (1.25" front window)	
15	53814-OC	1		LEXAN, LH AND RH FRONT WINDOW .5" thick	
15a	53814-1.25"	1		LEXAN, LH AND RH FRONT WINDOW 1.25" Thick	
16	54637-OC	2		LEXON, CAB SIDE FRONT LIGHT GUARD	
17	57304-OC	1		LEXON, CAB SIDE REAR LIGHT GUARD - C	
18	54636-OC	1		LEXAN, DOOR WINDOW - .5"	
18a	54636-.75"-OC	1		LEXAN, DOOR WINDOW -.75"	
19	1047495-OC	1		FRAME, DOOR WINDOW	
20	55326-OC	1		WINDOW, SLIDING OPERA C SERIES	
21	1051490-OC	1		GUARD, OPERA Sliding Window	
22	15529-OC	22		BOLT - .375" X 2"	
23	55679-OC	1		LEXAN, Right Side Window (BOOM SIDE)	
24	1047483-OC	1		FRAME, Right Side Window (BOOM SIDE)	
25	47198-OC	1		LEXAN, Front Cab Light Lower	



See referenced page for component or assembly breakdown.



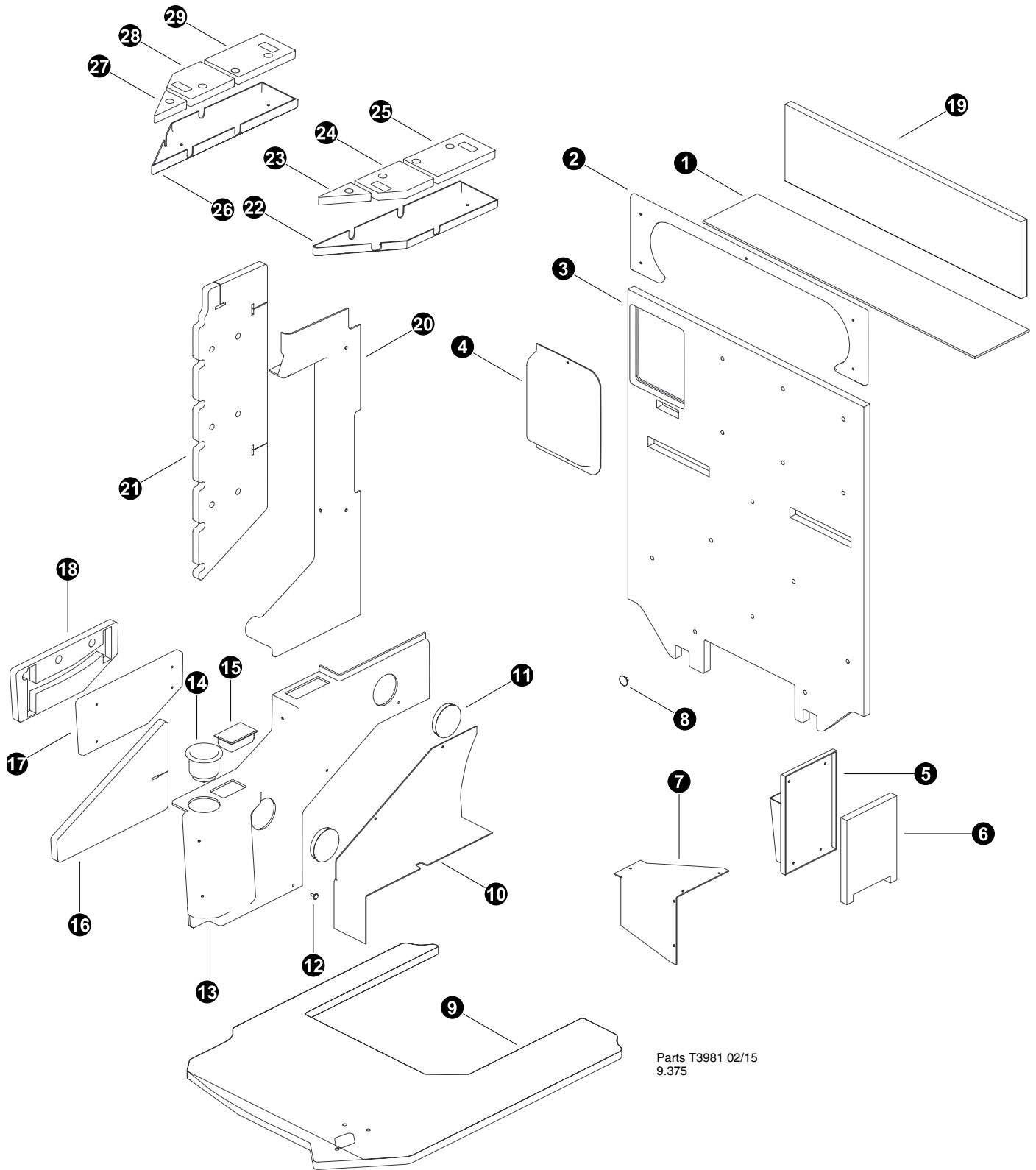
Bulk material - order length required in feet or meters.

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Section OC-3

Operator's Cab - Interior Components

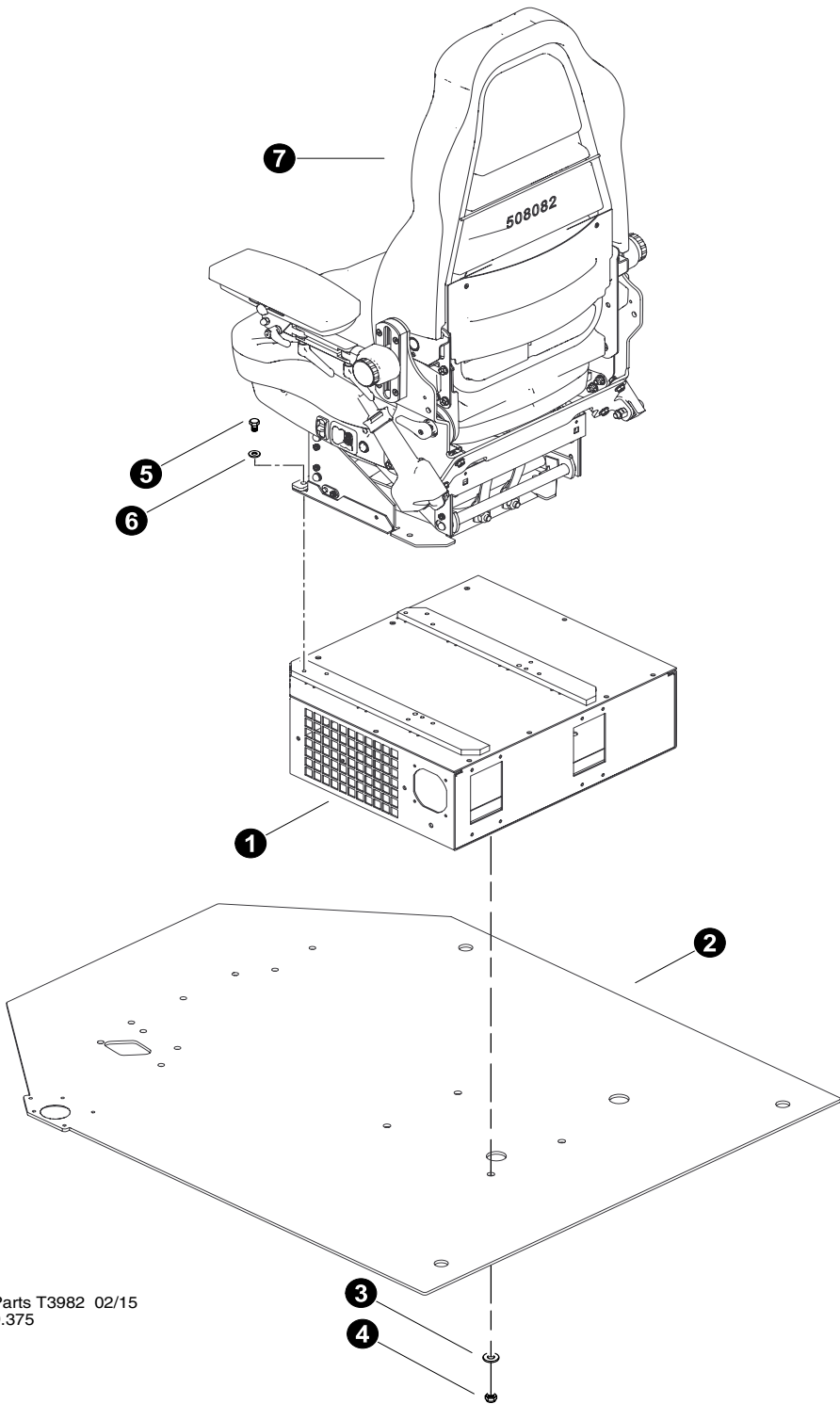


Parts T3981 02/15
9.375

INTERIOR TRIM & FLOORMAT

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	-OC	1	☐	KIT, CAB INSULATION - C SERIES	
1	47147-OC	1		MAT, RUBBER - C-CAB STORAGE TRAY	
2	1048234-OC	1		TRIM, PANEL - Storage Box	
3	1048260-OC	1		FOAM, Insulation - REAR CAB	
4	1048246-OC	1		TRIM, PANEL - Fuse Cover	
5	1048241-OC	1		TRIM, PANEL - Manual Holder	
6	1051806-OC	1		FOAM, Insulation	
7	1048242-OC	1		COVER, Plastic Cab Vent	
8	252-0033-OC	15		Retainer, Plastic Push Large	
9	55253-OC	1		FLOORMAT, WHEEL MACHINE "C" REVERSE CAB	
10	1048268-OC	1		COVER, Plastic AC-Heater	
11	67083-OC	2		COVER, Plastic Cab Mounts	
12	67093-OC	30		Retainer, Plastic Push	
13	1048264-OC	1		TRIM, PANEL - Lower Dash	
14	54997-OC	1		HOLDER, CUP - 735/830-C	
15	1048266-OC	1		FOAM, Insulation	
16	1048676-OC	1		FOAM, Insulation	
17	1048267-OC	1		TRIM, PANEL - Right Window	
18	1048675-OC	1		FOAM, Insulation	
19	1049015-OC	1		FOAM, Insulation	
20	1048884-OC	1		TRIM, PANEL - Right Window Rear	
21	1048674-OC	1		FOAM, Insulation	
22	1048239-OC	1		TRIM, PANEL - Top Left	
23	1048683-OC	1		FOAM, Insulation	
24	1048681-OC	1		FOAM, Insulation	
25	1048680-OC	1		FOAM, Insulation	
26	1048240-OC	1		TRIM, PANEL - Top Right	
27	1048679-OC	1		FOAM, Insulation	
28	1048678-OC	1		FOAM, Insulation	
29	1048677-OC	1		FOAM, Insulation	

☐ Assembly or Kit - includes all items indented underneath.



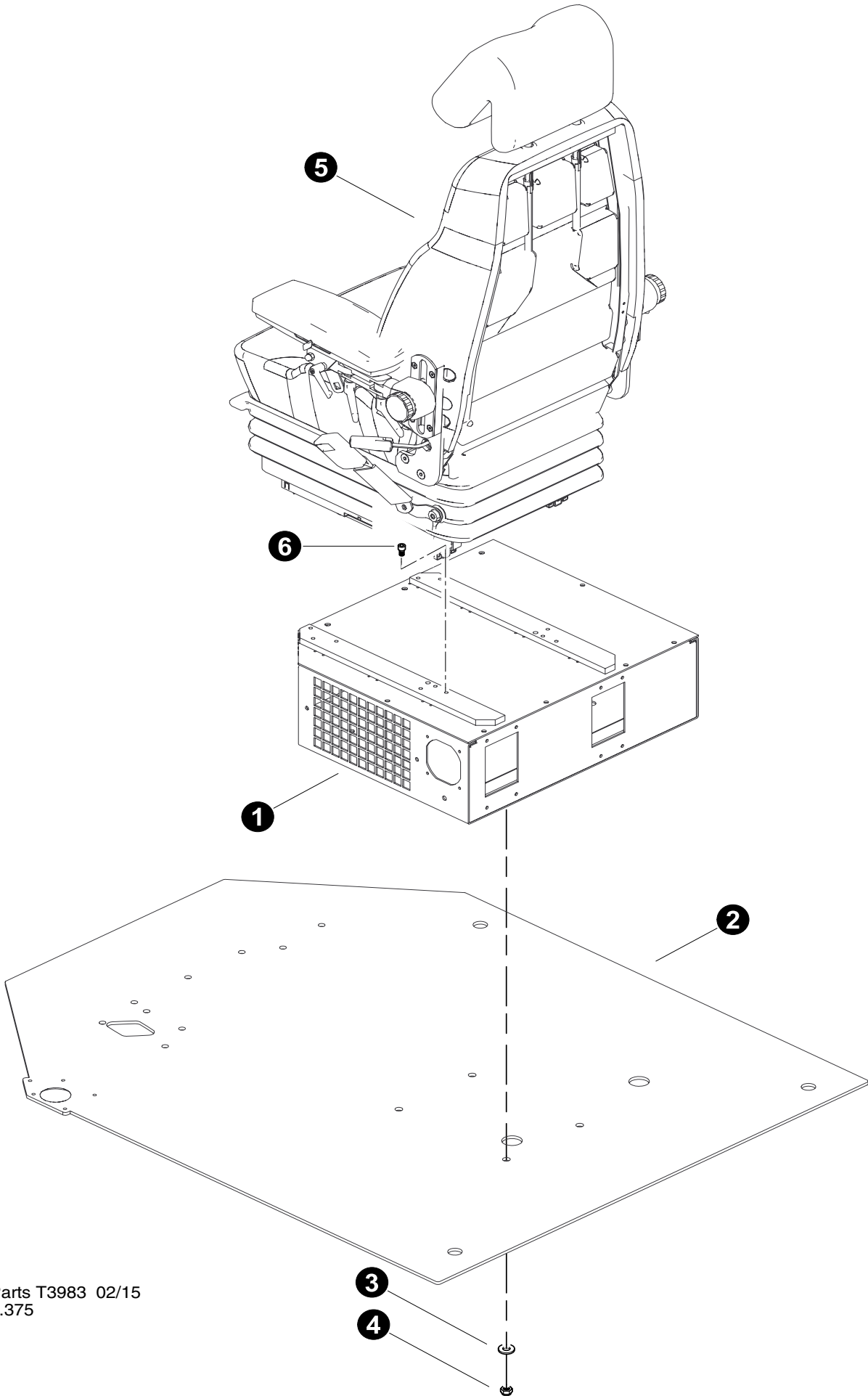
Parts T3982 02/15
9.375

OPERATOR'S SEAT INSTALLATION**(Seats Inc seat mounting)**

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		AC / HEATER UNIT ASSEMBLY	OC-4
2	REF.	1		Operators Cab	OC-1
3	22666-OC	4		WASHER, SAE FLAT - .5" (EXTRA THICK)	
4	10815-OC	4		NUT, LOCK - .5"	
5	15605-OC	4		BOLT - .3125" X .75"	
6	15559-OC	4		WASHER, SAE FLAT - .3125"	
7	REF.	1		OPERATOR'S SEAT.....	OC-1



See referenced page for component or assembly breakdown.



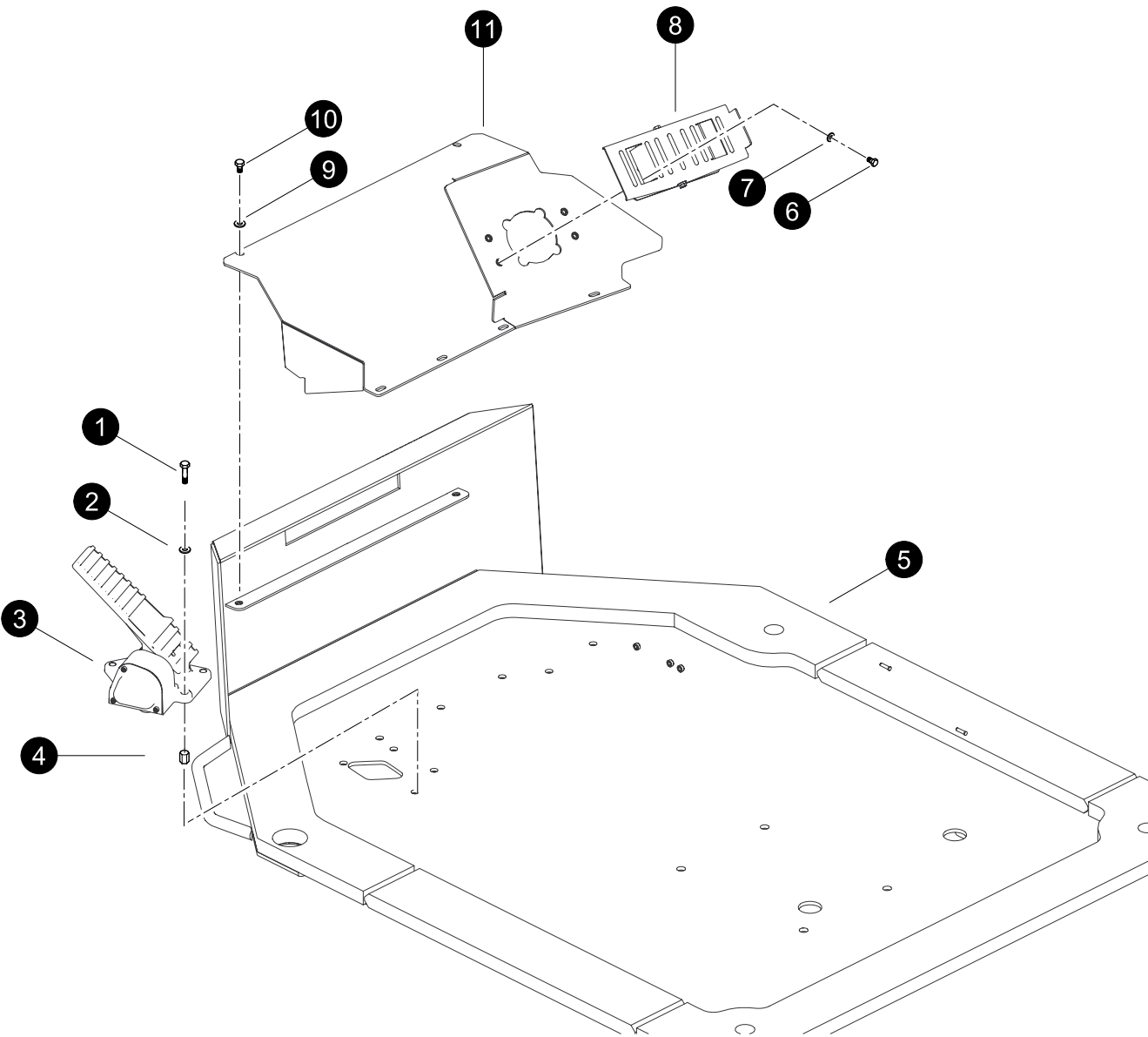
Parts T3983 02/15
9.375

OPERATOR'S SEAT INSTALLATION (KAB seat mounting)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		AC / HEATER UNIT ASSEMBLY	OC-4
2	REF.	1		Operators Cab	OC-1
3	22666-OC	4		WASHER, SAE FLAT - .5" (EXTRA THICK)	
4	10815-OC	4		NUT, LOCK - .5"	
5	53906-OC	4		BOLT, ALLEN HEAD - .3125" X .5"	
6	REF.	1		OPERATOR'S SEAT.....	OC-1



See referenced page for component or assembly breakdown.



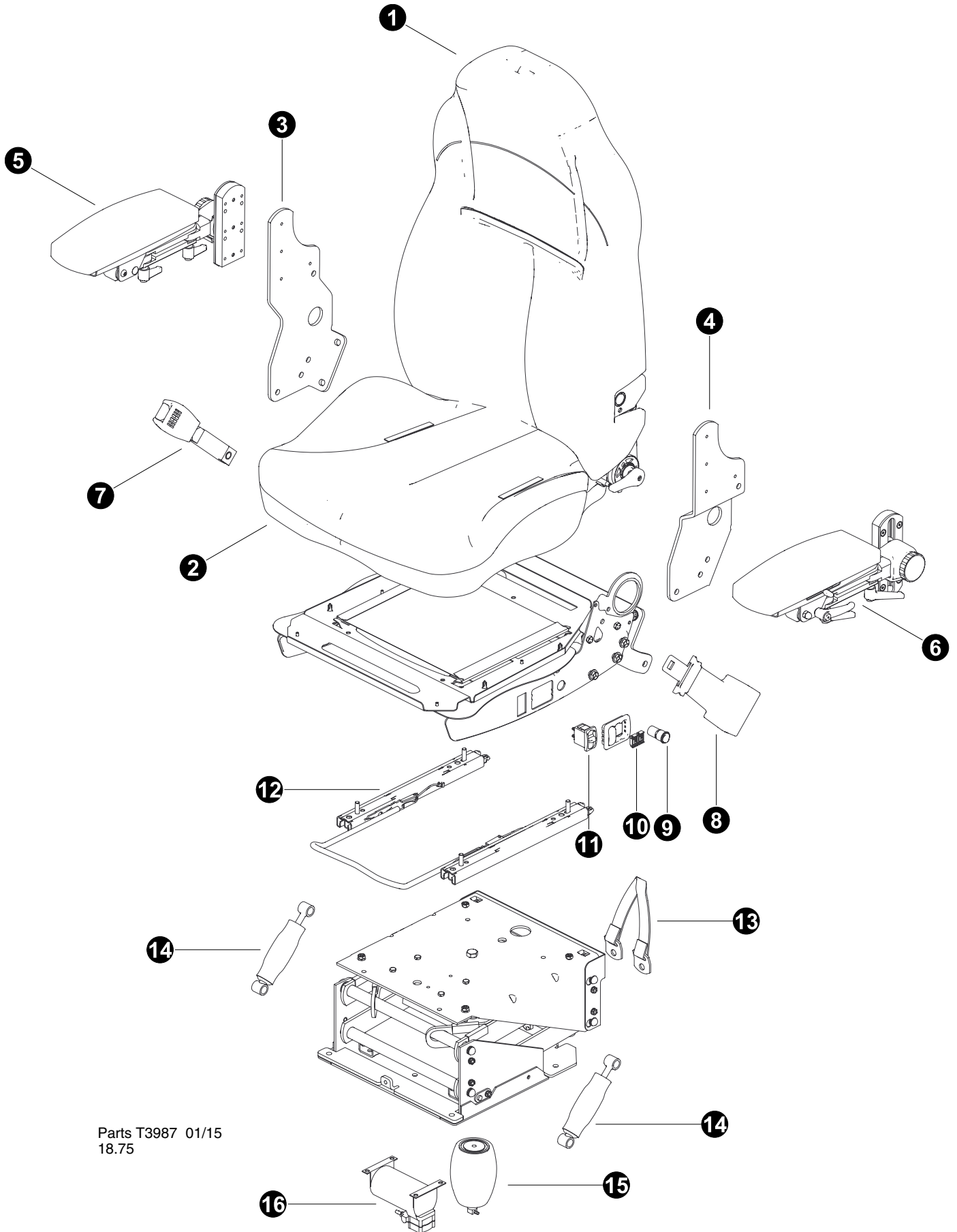
Parts T4106 01/2016
12.5

FOOT PEDALS INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	10823-OC	3		BOLT - .3125" X 2"	
2	15559-OC	3		WASHER, SAE FLAT - .3125"	
3	REF.	1		TRAVEL BRAKE FOOT PEDAL	ES
4	16018-OC	3		BUSHING, REDUCER - 6405-6-4	
5	REF.	1		OPERATOR'S CAB	OC-1
6	15605-OC	7		BOLT - .3125" X .75"	
7	15559-OC	7		WASHER, SAE FLAT - .3125"	
8	REF.	1		WHEEL DRIVE FOOT CONTROL	ES
9	15559-OC	4		WASHER, SAE FLAT - .3125"	
10	15589-OC	4		BOLT - .3125" X 1"	
11	53277-OC	1		BRACKET, FOOT PEDAL - OTTO PEDAL	



See referenced page for component or assembly breakdown.



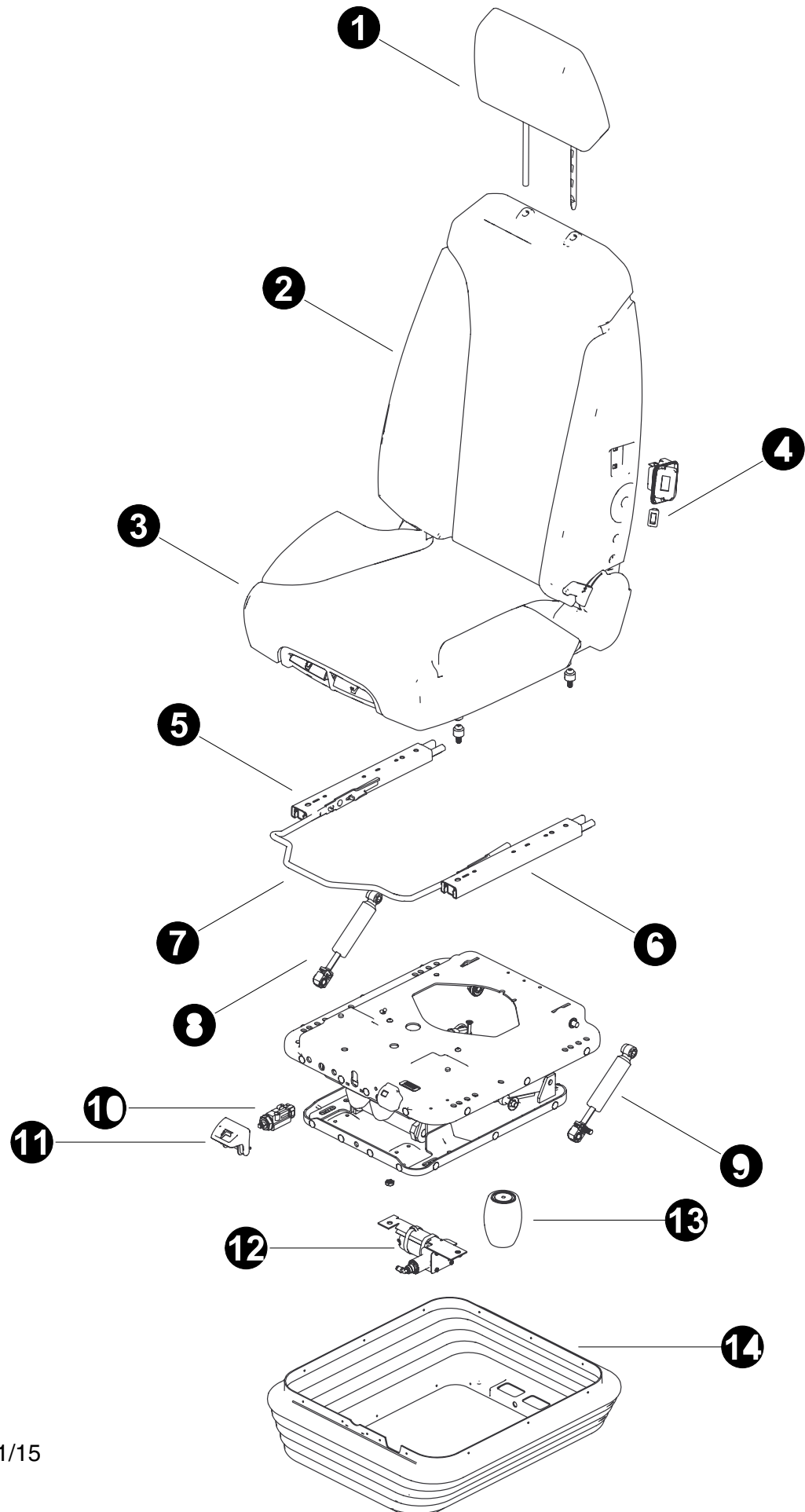
Parts T3987 01/15
18.75

OPERATOR'S SEAT BREAKDOWN (Seats Inc - Standard)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	54071-OC	1	☐	SEAT ASSEMBLY, SEATS INC. Heat / Air Ride	
1	508082-03	1		SEAT BACK CUSION	
2	508081-00	1		SEAT BOTTOM CUSION	
3	s7125_12-02	1		BRACKET, RIGHT ARMREST MOUNT	
4	s7125_11-02	1		BRACKET, LEFT ARMREST MOUNT	
5	REF.	2	☐	ARMREST ASSEMBLY.	OC-3
6	REF.	2	☐	ARMREST ASSEMBLY.	OC-3
7	741057	1	☐	SEAT BELT Buckle	
8	-	1		SEAT BELT Retractor	
9	708989	1		SWITCH, Heat Control	
10	-OC	1		SWITCH, LUMBAR	
11	708884-01	1		SWITCH, AIR RIDE	
12	782060	1		SLIDES	
13	53948-OC	1		TETHERS	
14	708055	1		SHOCK	
15	708015	1		AIR BAG	
16	708407-03	1		COMPRESSOR PUMP	

☐ Assembly or Kit - includes all items indented underneath.

☐ See referenced page for component or assembly breakdown.



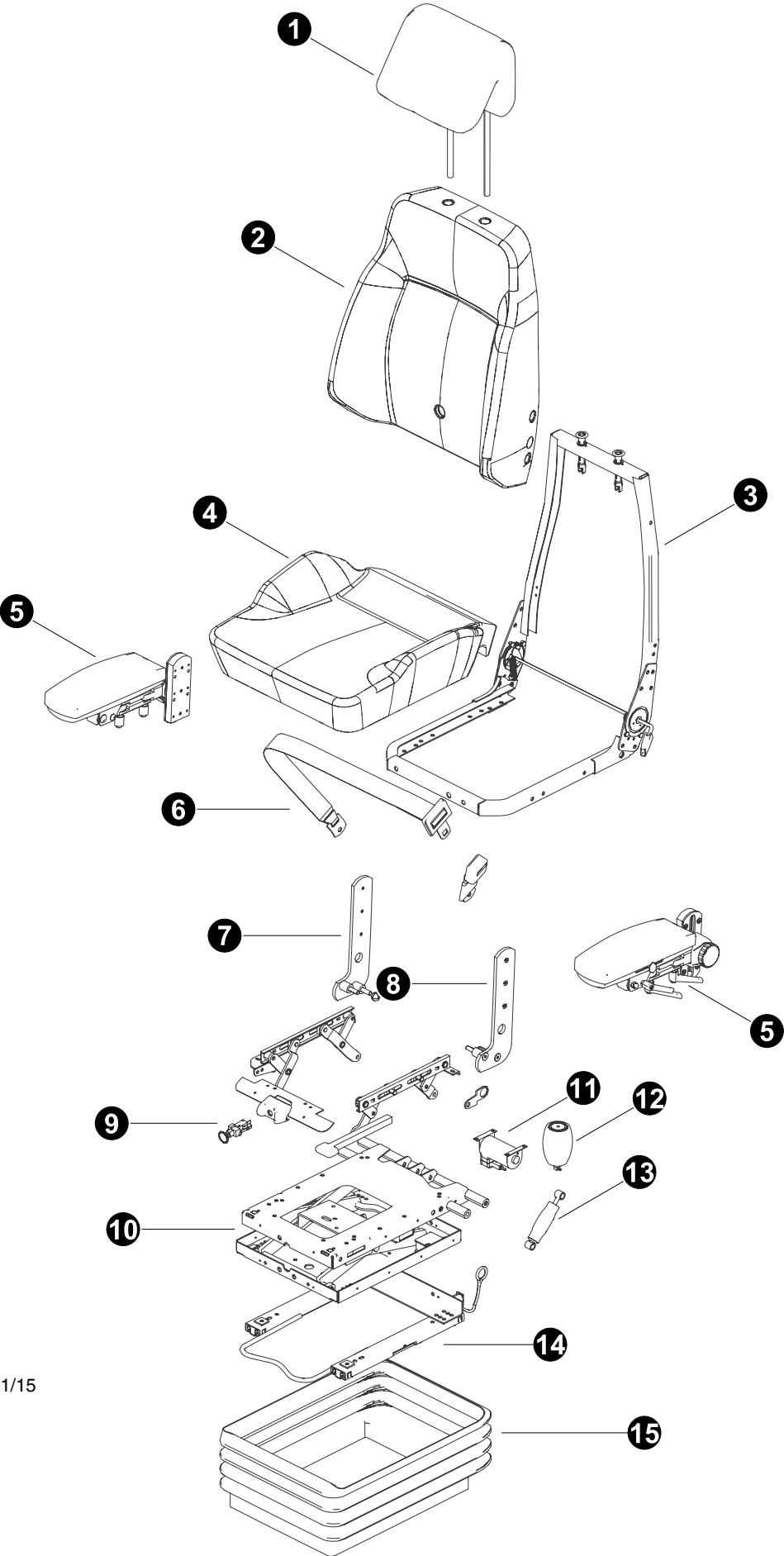
Parts T3993 01/15
18.75

OPERATOR'S SEAT BREAKDOWN (KAB - Standard)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
-	55439-OC	1	SEAT ASSEMBLY, KAB W/ HEAT NO - COOL AIR	
1	199109	1	Head rest	
2	202519	1	Seat Back	
3	236309-01	1	Seat Bottom	
4	168659	1	Heater Switch	
5	167345-02	1	Right Slide Rail	
6	167346-02	1	Left Slide Rail	
7	236122_A	1	Slide Handle	
8	175854	1	Shock	
9	175854	1	Shock	
10	184900	1	Valve, Air Ride	
11	201835	1	Handle, Air Ride	
12	203363	1	Pump, Air Ride	
13	172254-15	1	Bag, Air Ride	
14	193150-01	1	Cover, Bottom Seat	

 Assembly or Kit - includes all items indented underneath.

 See referenced page for component or assembly breakdown.



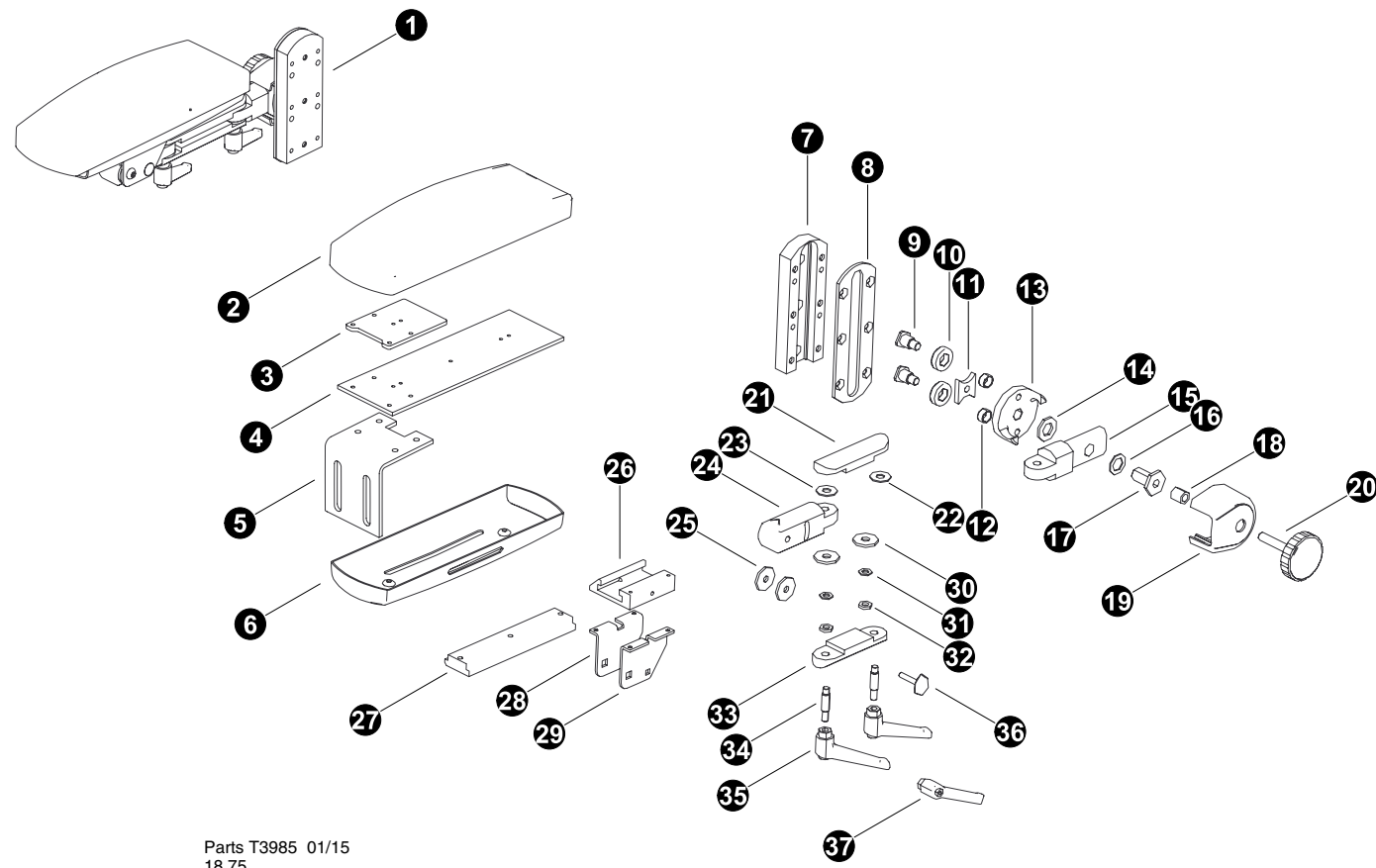
Parts T3986 01/15
18.75

OPERATOR'S SEAT BREAKDOWN (KAB - Optional Upgrade)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	53692-OC	1	☐	SEAT ASSEMBLY (KAB) Air Ride/Heater and Head Rest	
1	42030201-1-OC	1		HEADREST	
2	153086-OC	1		Cushion, Back	
3	-OC	1		UPPER ASSEMBLY	
4	153085-OC	1		Cushion, Bottom	
5	REF.	2	📖	ARMREST ASSEMBLY.....	OC-3
6	K41172-OC	1		SEAT BELT	
7	991286-OC	1		BRACKET, Arm Rest	
8	991285-OC	1		BRACKET, Arm Rest	
9	179664-OC	1		SWITCH, Air Ride	
10	185597_ASM	1		AIR RIDE MOUNT	
11	65080810-OC	1		AIR COMPRESSOR	
12	-OC	1		AIR BAG	
13	-OC	1		SHOCK	
14	152781-OC	2		SLIDES	
15	500SUSP-OC	1		COVER, Air Ride	

☐ Assembly or Kit - includes all items indented underneath.

📖 See referenced page for component or assembly breakdown.



Parts T3985 01/15
18.75

OPERATOR'S CONTROL ARM BREAKDOWN

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	55661-OC	1	☐	ARM REST, SITTAB ARMFLEX - RH	
-	55660-OC	1	☐	ARM REST, SITTAB ARMFLEX - LH	
2	X2_00D6_X0	1		PAD	
3	X2_00E5_X0	1		COVER	
4	980189_6	1		PLATE	
5	980189_4	1		PLATE	
6	46845-OC	1		BRACKET, JOYSTICK POD MOUNT - KAB	
7	995092	1		MOUNT	
8	995091	1		COVER	
9	995088	1		RETAINER	
10	950256	1		ROLLER	
11	950141	1		STOP	
12	950258	1		BUSHING	
13	995089	1		STOP - RIGHT SIDE	
13	995090	1		STOP - LEFT SIDE	
14	Plast17x30x3	1		WASHER	
15	Led1	1		MOUNT	
16	Plast17x26x1,4	1		WASHER	
17	993206	1		RETAINER	
18	993221	1		NUT	
19	950151	1		COVER	
20	Pinnbult M10x75	1		ADJUSTER BOLT	
21	Led80_vre	1		MOUNT	
22	991054	1		WASHER	
23	991054	1		WASHER	
24	Led3	1		ARM	
25	993126-2	1		WASHER	
26	950125	1		MOUNT	
27	997507	1		SLIDE	
28	995085	1		BRACKET	
29	995086	1		BRACKET	
30	993126-1	1		WASHER	
31	993133	1		NUT	
32	980341	1		NUT	
33	Led80undre	1		MOUNT	
34	-	4		PinPassbult10xM8x38	
35	991114	1		HANDLE	
36	991013	1		ADJUSTER	
37	980187	1		HANDLE	

 Assembly or Kit - includes all items indented underneath.

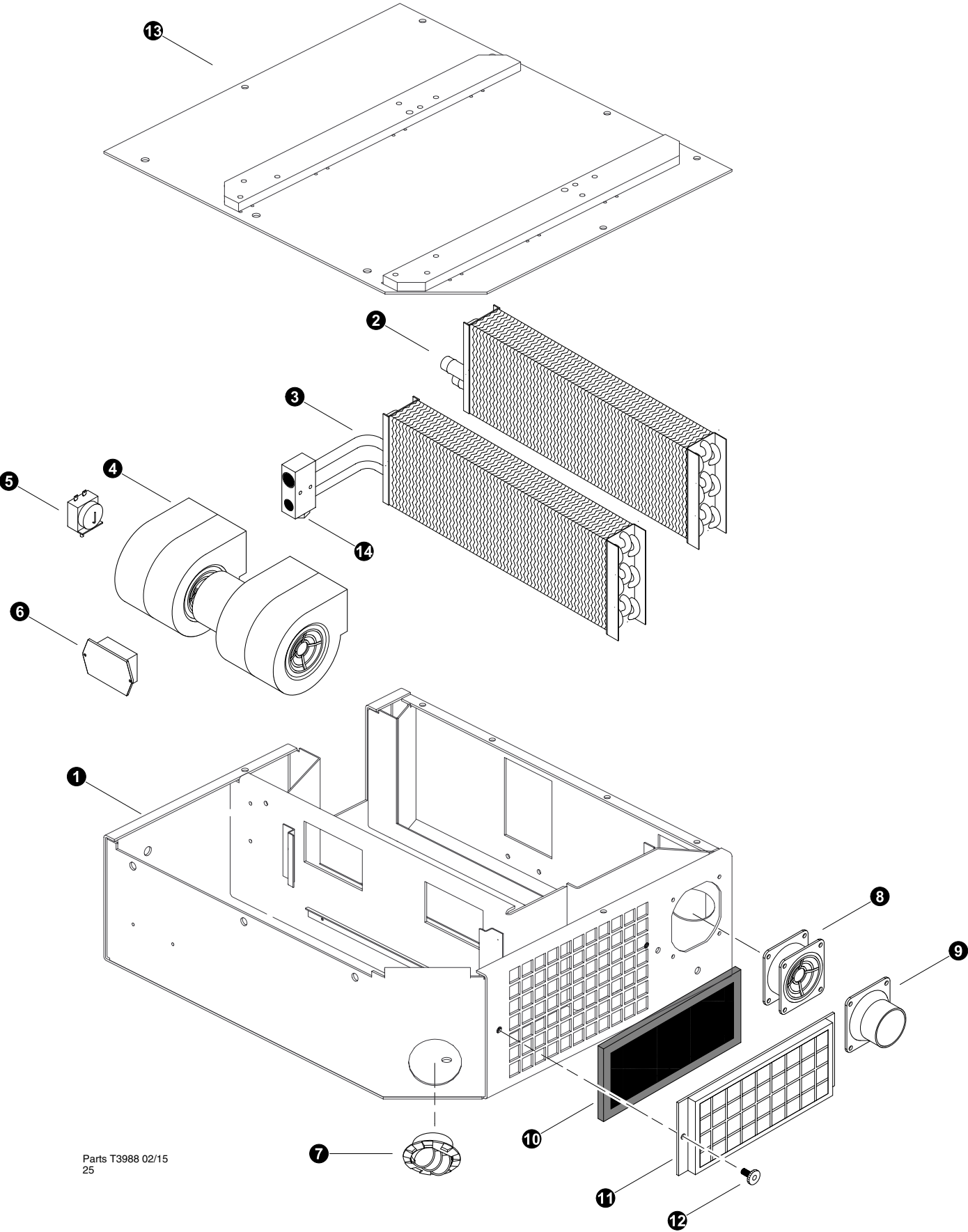
 See referenced page for component or assembly breakdown.

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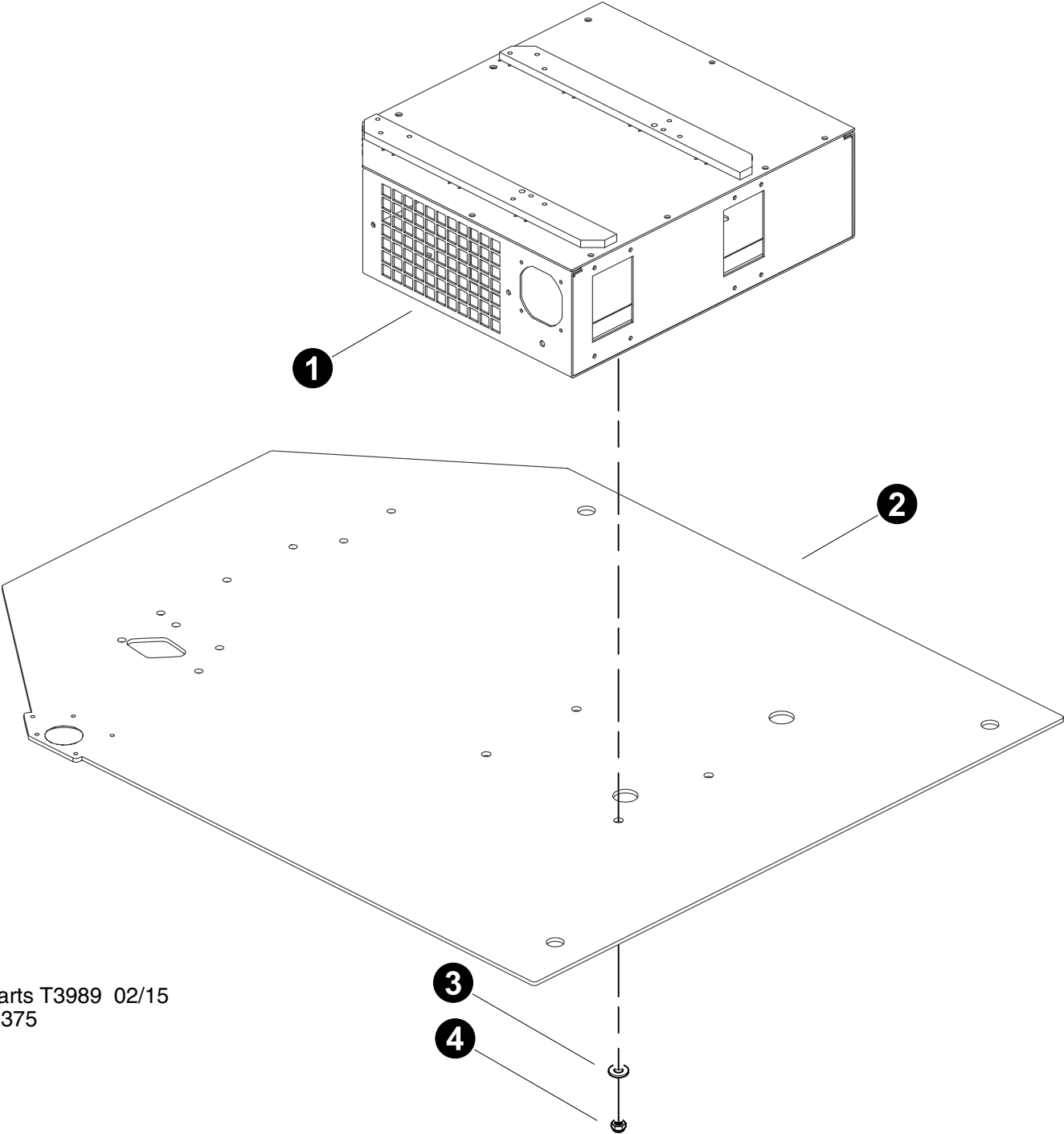
Section OC-4

Operator's Cab - Air Conditioner / Heater Unit



AIR CONDITIONER / HEATER UNIT

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	55226-OC	1	☐	KIT, HEATER/AC - C SERIES - LEFT CAB	
1	BA-906-045-0	1		BOX, A/C Heater	
2	-OC	1		HEATER CORE (BA6-1035)	
3	54274-OC	1		COIL, EVAPORATOR (BA6-1036)	
-	-OC	1		EXPANSION VALVE (BA1-2004)	
4	-OC	1		BLOWER ASSEMBLY - 24V (RD-3-7383-1)	
5	50955-OC	1		THEROSTAT (71R3200)	
6	54772-OC	1		SPEED CONTROL MODULE (RD-6-5558-0)	
7	-OC	1		DIFFUSER (BA2-2025)	
8	53164-OC	1		FAN, cab pressurizer (BT3-0130-4)	
9	-OC	1		ADAPTER, 3" HOSE	
10	54145-OC	1		FILTER, A/C - HEATER (BA8-0104)	
11	-OC	1		BRACKET, A/C Filter (BA-788-0-24)	
12	-OC	1		THUMB SCREW (BT0-0787)	
13	BA-906-045-11	1		COVER, A/C - Heater and Seat Mount	
14	57305-OC	1		VALVE, EXPANSION - BADGER (830/630)	



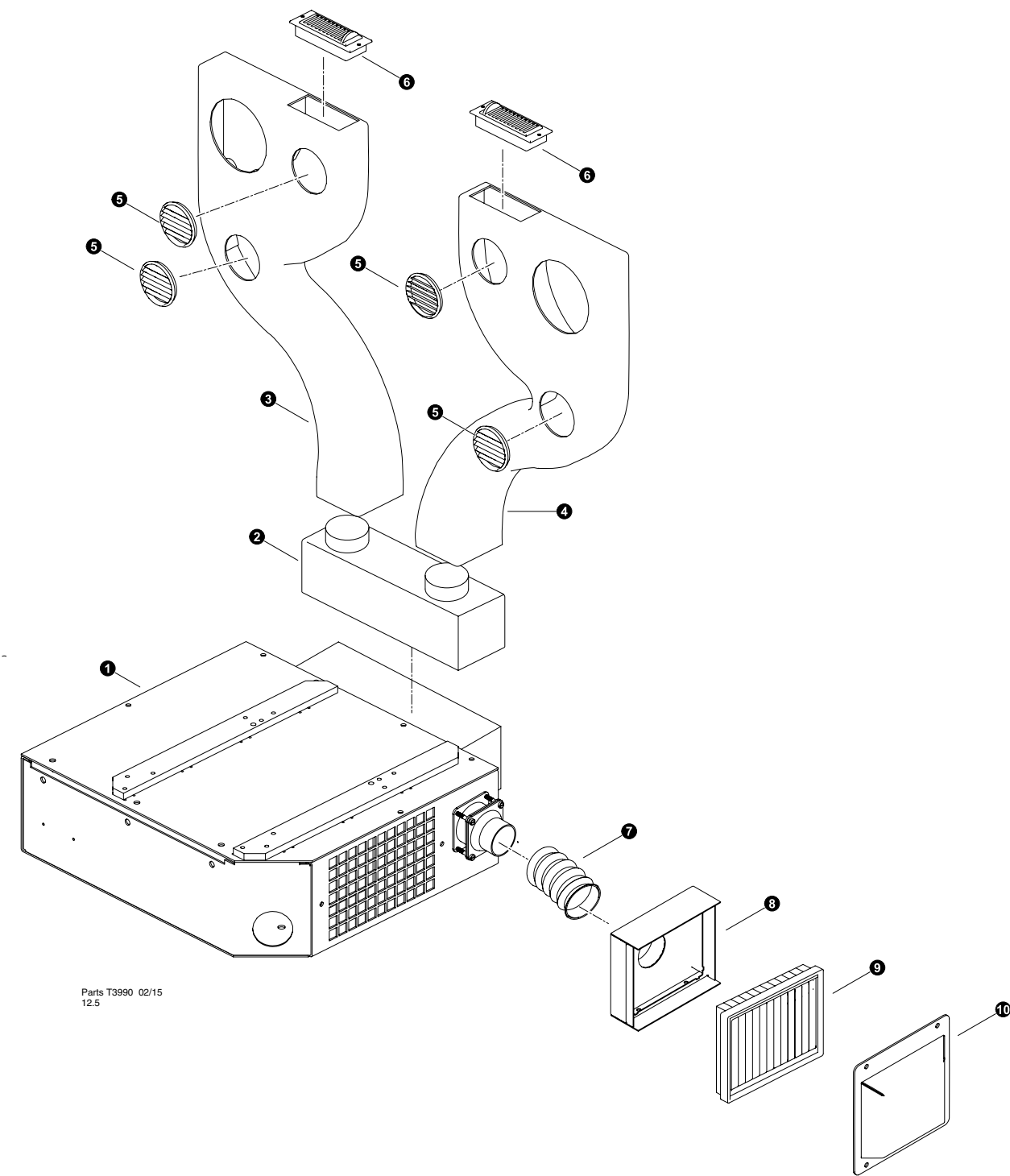
Parts T3989 02/15
9.375

AIR CONDITIONER / HEATER UNIT

(Installation)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		AIR CONDITIONER / HEATER UNIT.....	OC-4
2	REF.	1		OPERATOR'S CAB ASSEMBLY	OC-1
3	22666-OC	4		WASHER, SAE FLAT - .5" Thick	
4	10815-OC	4		NUT, LOCK - .5"	

☐ Kit or Assembly includes all items Underneath



AIR CONDITITIONER / HEATER DUCT INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		AIR CONDITIONER / HEATER UNIT.....	OC-4
2	1048261	1		DUCT, Combiner	
3	1048263	1		DUCT, HEATER/AC VERTICAL TUBE Right	
4	1048262	1		DUCT, HEATER/AC VERTICAL TUBE Left	
5	67008	4		VENT, LOUVER	
6	g2065	2		VENT, LOUVER	
7	-OC	AR		HOSE, flexible - 3" (78R0300SB)	
8	REF.	1		OPERATOR'S CAB ASSEMBLY	OC-1
9	54144-OC	1		FILTER, CAB - PRESSURIZED (CURRENT)	
10	13235-00	1		Cover, Fresh Air	



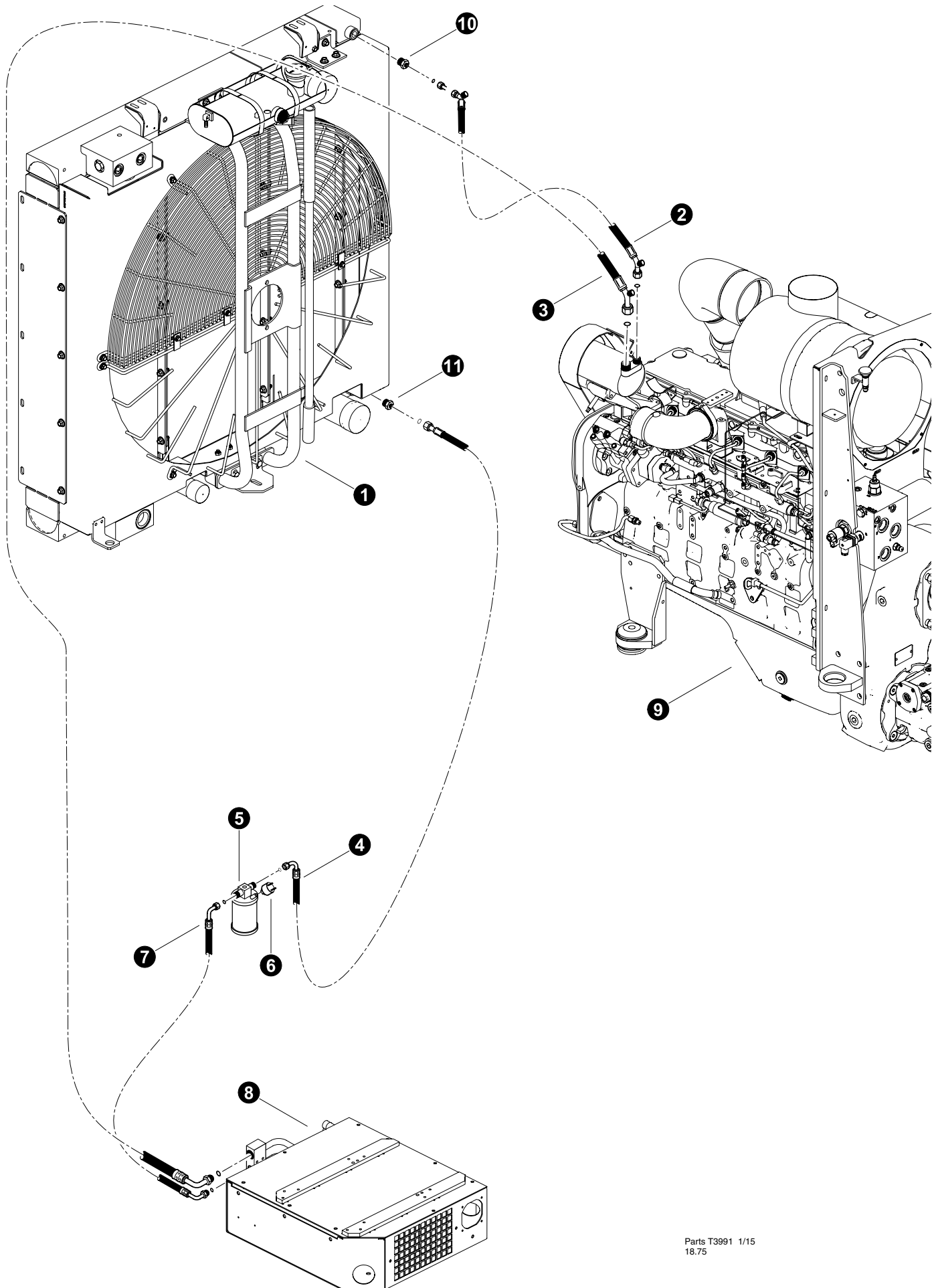
Built material - order length required in feet or meters.



Kit or Assembly - includes all items indented underneath.



See referenced page for component or assembly breakdown.



Parts T3991 1/15
18.75

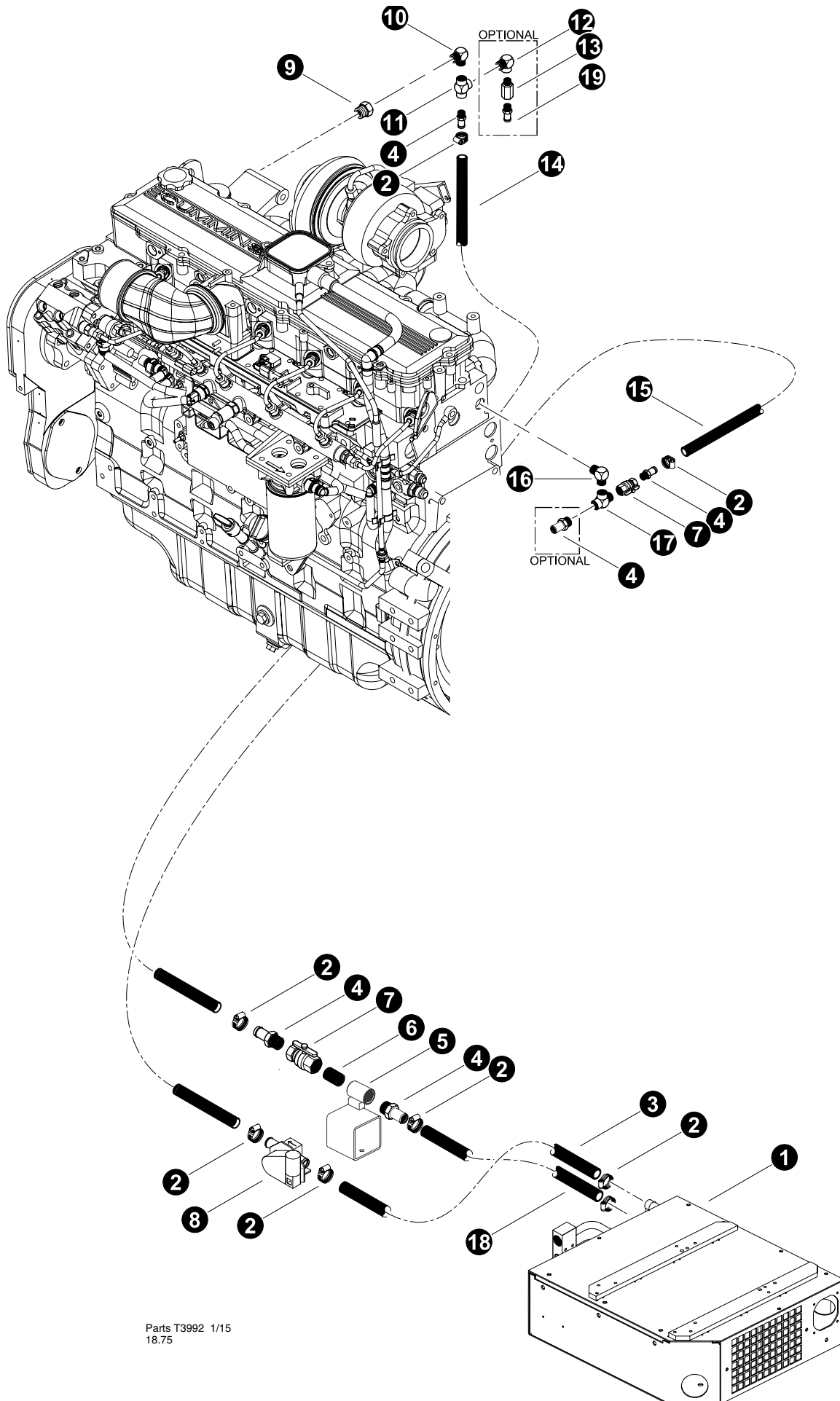
AIR CONDITIONER LINES

(Cab Interior and Exterior)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	REF	1	RADIATOR / AC / OIL COOLER ASSEMBLY.....	UP-3
2	BH-314-OC	1	HOSE, air conditioner - #8 x 26.5 " (Female 45° to Female 45°) (Compressor to Condensor inlet)	
-	405863	2	O-RING #08	
3	BH-313-OC	1	HOSE, air conditioner - #12 x 181" (90° Male to 45° Female) (EXPANSION Valve to Compressor Inlet)	
-	405864	2	O-RING #10	
4	-OC	1	HOSE, air conditioner - #6 x 49" (#8 Female Str° to #6 Female 90°) (Condensor tubing Outlet to Drier)	
-	405862	2	O-RING #06	
-	405863	2	O-RING #08	
5	50937-OC	1	DRIER, A/C	
6	15040-OC	1	SWITCH, binary	
7	BH-312-OC	1	HOSE, air conditioner - #6 x 59 " (Male 90° to Female 90°) (EXPANSION Valve to Drier)	
-	405862	2	O-RING #06	
8	REF	1	AC / HEATER ASSEMBLY	OC-4-1
9	REF	1	CUMMINS QSC ENGINE ASSEMBLY	EE-1
10	BT0-770-OC	1	Fitting 7/8" -14 X #8 ORB	
11	BT0-770-OC	1	Fitting 7/8" -14 X #8 ORB	



See referenced page for component or assembly breakdown.



Parts T3992 1/15
18.75

HEATER LINES (Cab Interior)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		AIR CONDITIONER / HEATER UNIT.....	OC-4
2	16256-OC	8		CLAMP, hose - worm style - 7/8"	
3	16717-OC	1		HOSE, heater - 5/8" (<i>Bulkhead to Heater Coil</i>)	
4	51774-OC	1		CONNECTOR, STR HOSE BARB - .5 X 5/8 (830	
5	46340-OC	1		BRACKET, WATER VALVE - C MODEL	
6	16126-OC	1		NIPPLE, CLOSE .5"	
7	51714-OC	1		VALVE, BALL - WATER SHUT OFF HEATER 1/2"	
8	54674-OC	1		VALVE, WATER KIT	
9	15513-OC	2		BUSHING, REDUCER - 5406-12-8	
10	52785-OC	1		ELBOW, MALE PIPE - 3/4 X 1/2 CR-S	
11	16125-OC	1		TEE, BLACK - .5"	
12	-OC	2		ELBOW, 1/2" X 3/8" CD-S	
13	15652-OC	2		VALVE, CHECK	
14	16717-OC	1		HOSE, heater - 5/8" (<i>Bulkhead to Heater Coil</i>)	
15	16717-OC	1		HOSE, heater - 5/8" (<i>Bulkhead to Heater Coil</i>)	
16	52785-OC	1		ELBOW, MALE PIPE - 3/4 X 1/2 CR-S	
17	51879-OC	1		TEE, RUN - .5" (1/2 MR0-S)	
18	16717-OC	1		HOSE, heater - 5/8" (<i>Bulkhead to Heater Coil</i>)	
19	51502-OC	1		NIPPLE, KING - .38NPT X .63 HOSE	

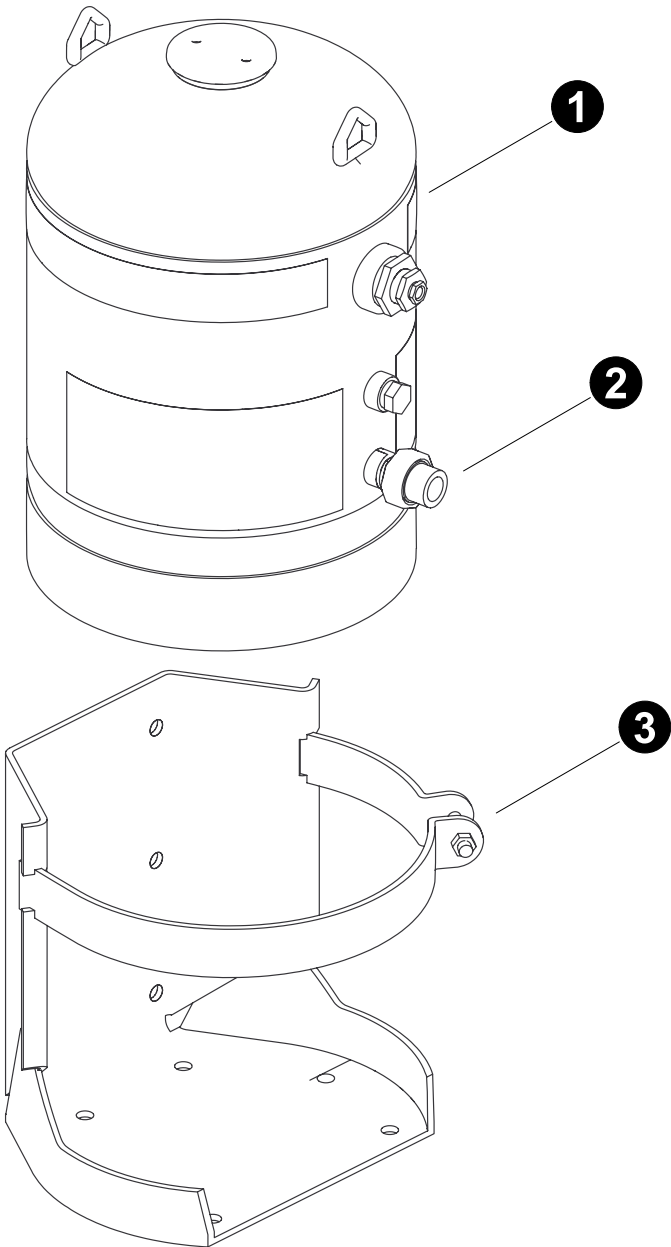


Bulk material - order length required in feet or meters.
See referenced page for component or assembly breakdown.

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Section OC-5

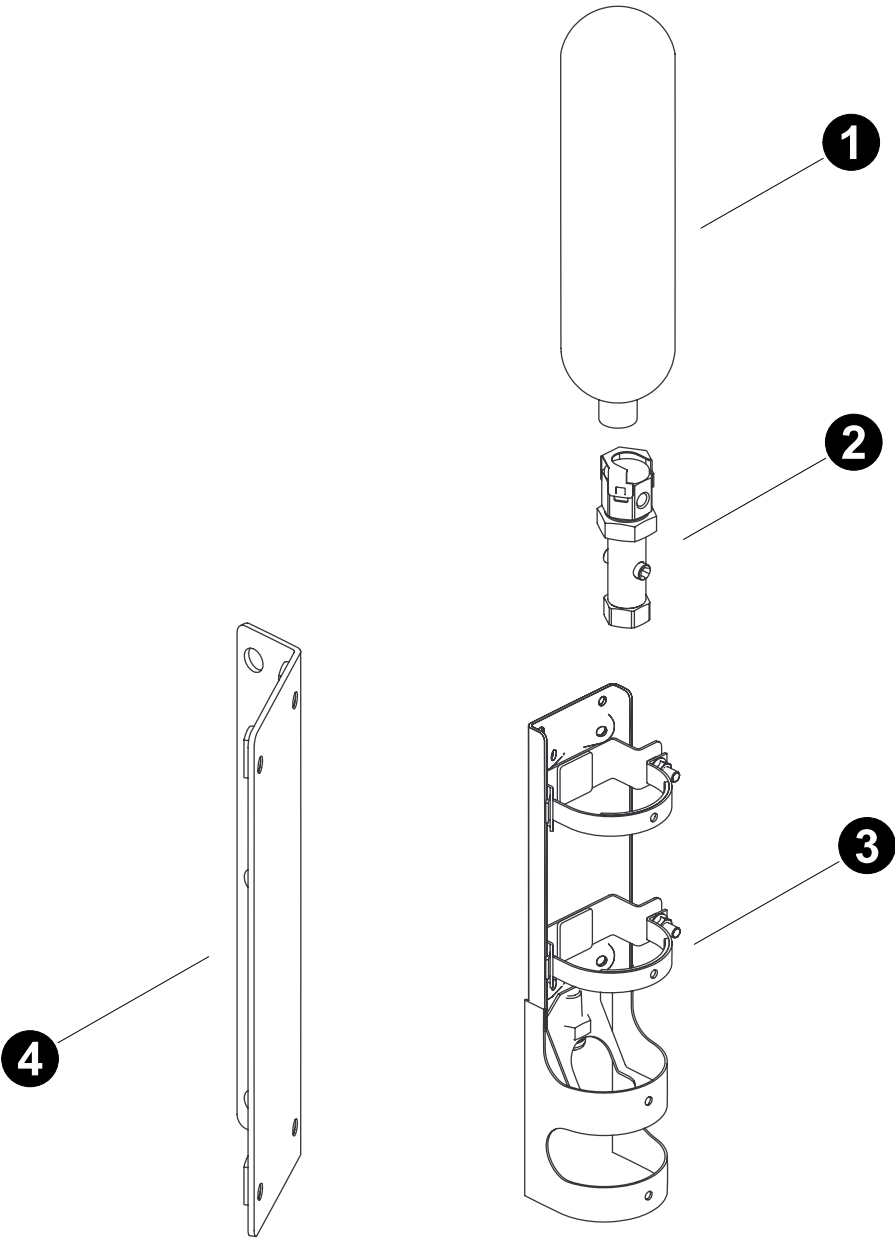
Operator's Cab - Optional Fire Suppression System



LVS Fire System Tank

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	439361-OC	1	☐	LVS-10 TANK ASSEMBLY	
2	5433-OC	1		Tailpiece Union	
-	4677-OC	1		Union Ring	
-	428271-OC	1		BURST DISC	
3	439376-OC	1		BRACKET	

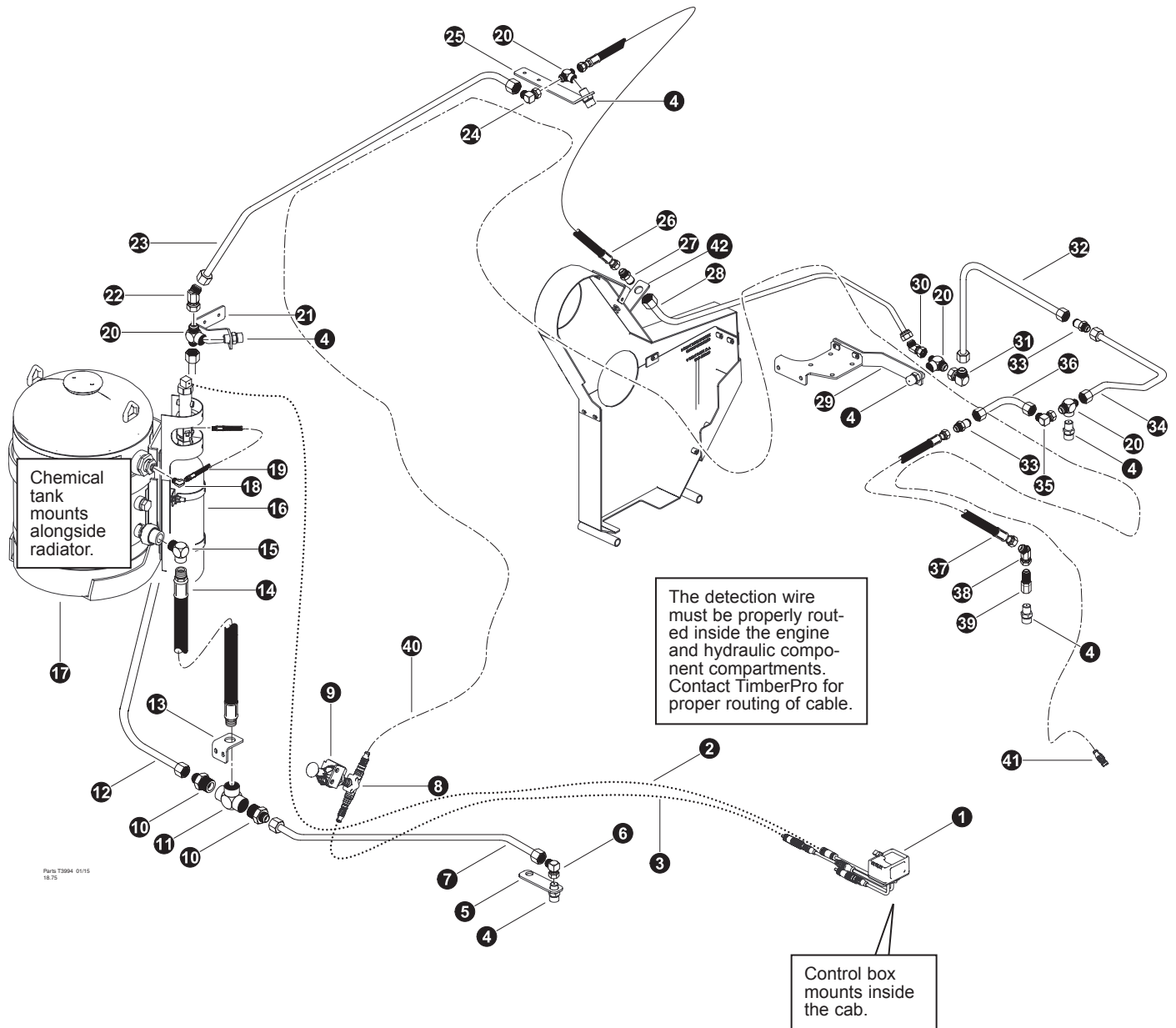
☐ Kit or Assembly - includes all items indented underneath.



LVS NITROGEN CYLINDER

REF	PART #	QTY		DESCRIPTION	SEE SECTION
--	24883-OC	1	☐	LT-A-101-30 Cartridge	
1	432152-OC			TANK	
2	439569-OC			SAFETY VENT	
3	32682-OC			BRACKET	
4	46985-OC			Mounting Bracket	

☐ Kit or Assembly - includes all items indented underneath.



LVS ACTUATION SYSTEM INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE SECTION
-	55126-OC	1	FIRE PRTECTION SYSTEM - LVS w/110 DETECT	
1	439559-OC	1	Checkfire 110 Control Module	
2	439422-OC	1	Release Circuit 10'	
3	439420-OC	1	Release Circuit 5'	
4	433325-OC	6	NOZZLE - W/CAP	
5	46501-OC	1	BRACKET, FIRE SUP LVS - ROTARY MANIFOLD	
6	55387-OC	1	FITTING, SWIVEL - 10 C6X-S	
7	55180-OC	1	TUBELINE, FIRE SUPPRESSION Cummins	
8	439394-OC	1	TEE, Detection Circuit	
9	439400-OC	1	Electric, Manual Actuator	
-	440537-OC	1	Bracket, Manual Actuator	
10	16444-OC	2	CONNECTOR, STR - 2404-10-12	
11	55377-OC	1	TEE, FIRE SUPPRESSION - 3/4" NPT	
12	55239-OC	1	TUBELINE, FIRE SUPPRESSION Cummins	
13	46506-OC	1	BRACKET, FIRE SUP LVS - COOLER LOWER	
14	-OC	1	HOSE ASSEMBLY FS2033-12-12MP-12PS	
15	53148-OC	1	FITTING, 3/4" MALE - 3/4" FEMALE	
16	REF	1	LVS NITROGEN CYLINDER	OC-5
17	REF	1	LVS-10 TANK.	OC-5
18	10320-OC	1	ELBOW, 90 SWIVEL - 1501-4-4	
19	-OC	1	HOSE ASSEMBLY FS2008.5-04-04MP-04PS	
20	55424-OC	4	FITTING, FEMALE BRANCH TEE	
21	46505-OC	1	BRACKET, FIRE SUP LVS - COOLER FRONT	
22	15241-OC	1	ELBOW, 45 SWIVEL - 6502-10	
23	55355-OC	1	TUBELINE, FIRE SUPPRESSION Cummins	
24	55387-OC	1	FITTING, SWIVEL - 10 C6X-S	
25	46504-OC	1	BRACKET, FIRE SUP LVS - COOLER REAR	
26	-OC	1	HOSE ASSEMBLY FR2024-10-10JS-10JS	
27	17008-OC	1	CONNECTOR, STR BULKHEAD - 2700-10	
28	55291-OC	1	TUBELINE, FIRE SUPPRESSION Cummins	
29	46502-OC	1	BRACKET, FIRE SUP LVS - WATER FILTER	
30	15241-OC	1	ELBOW, 45 SWIVEL - 6502-10	
31	55387-OC	1	FITTING, SWIVEL - 10 C6X-S	
32	55290-OC	1	TUBELINE, FIRE SUPPRESSION Cummins	
33	17008-OC	1	CONNECTOR, STR BULKHEAD - 2700-10	
34	55288-OC	1	TUBELINE, FIRE SUPPRESSION Cummins	
35	17008-OC	1	CONNECTOR, STR BULKHEAD - 2700-10	
36	55289-OC	1	TUBELINE, FIRE SUPPRESSION Cummins	
37	-OC	1	HOSE ASSEMBLY FR2052-10-10JS-10JS	
38	15241-OC	1	ELBOW, 45 SWIVEL - 6502-1	
39	55357-OC	1	FITTING, 10 WGTX-WLN-S	
40	439410-OC	1	Detection Circuit Wire 30'	
41	439396-OC	1	End of line connector	
42	46507-OC	1	BRACKET, FIRE SUP LVS - FAN SHROUD	



See reference page for component or assembly breakdown.

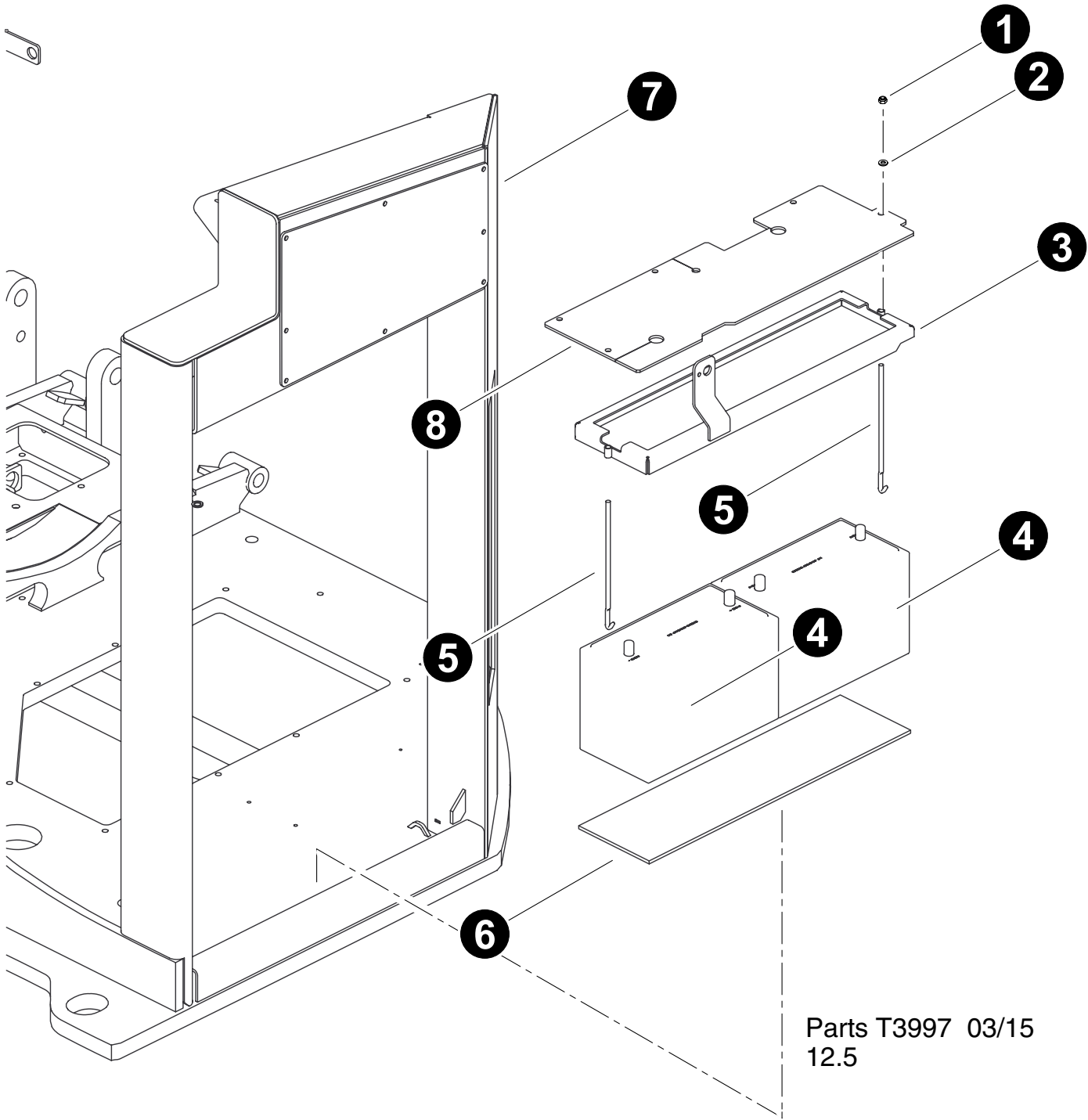
IMPORTANT NOTE ! Detection wire needs to be properly routed and isolated away from high temperature items (turbo & exhaust). Improper routing of the detection wire could cause system to not detect fire and to not operate properly. Wire also needs to be properly isolated away from items that could cause damage and wear to the wire. Contact TimberPro if you have any question on the routing of the detection wire.

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Section ES-1

Electrical System - Engine Compartment



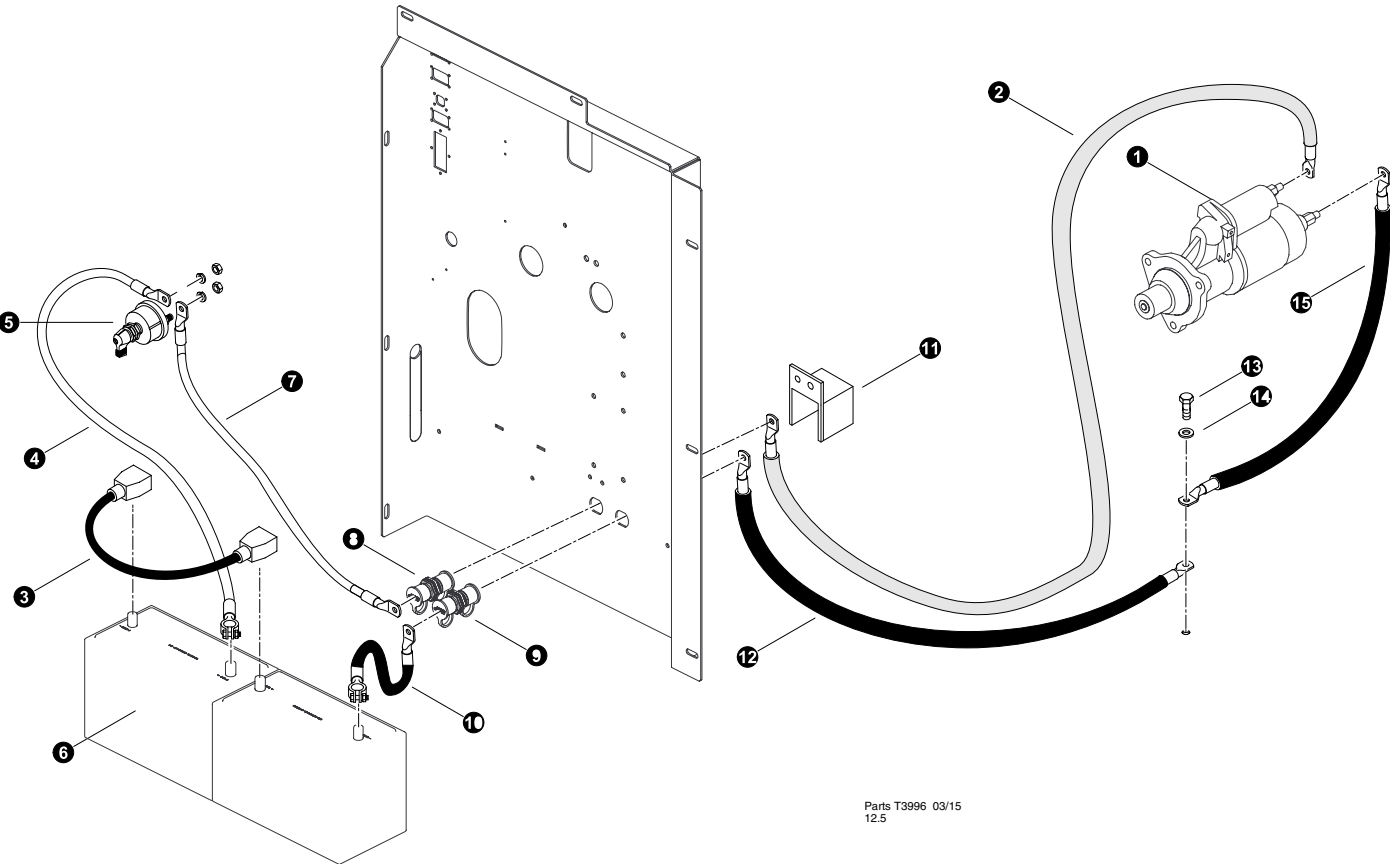
ENGINE ELECTRICAL SYSTEM

Battery Installation

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	10788-ES	2	NUT, NYLOCK - .3125"	
2	15559-ES	2	WASHER, SAE FLAT - .3125"	
3	45537-ES	1	BRACKET, BATTERY HOLD DOWN	
4	17150-ES	2	BATTERY, HEAVY DUTY	
5	51722-ES	1	HOLD DOWN, BATTERY - (2 PER PACK)	
6	45720-ES	1	RUBBER, ISOLATOR - BATTERY HOLD DOWN	
7	REF.	1	 UPPER TURNTABLE ASSEMBLY	UP-1
8	46564-ES	1	RUBBER, ISOLATOR - BATT COVER (C SERIES)	



See referenced page for component or assembly breakdown.



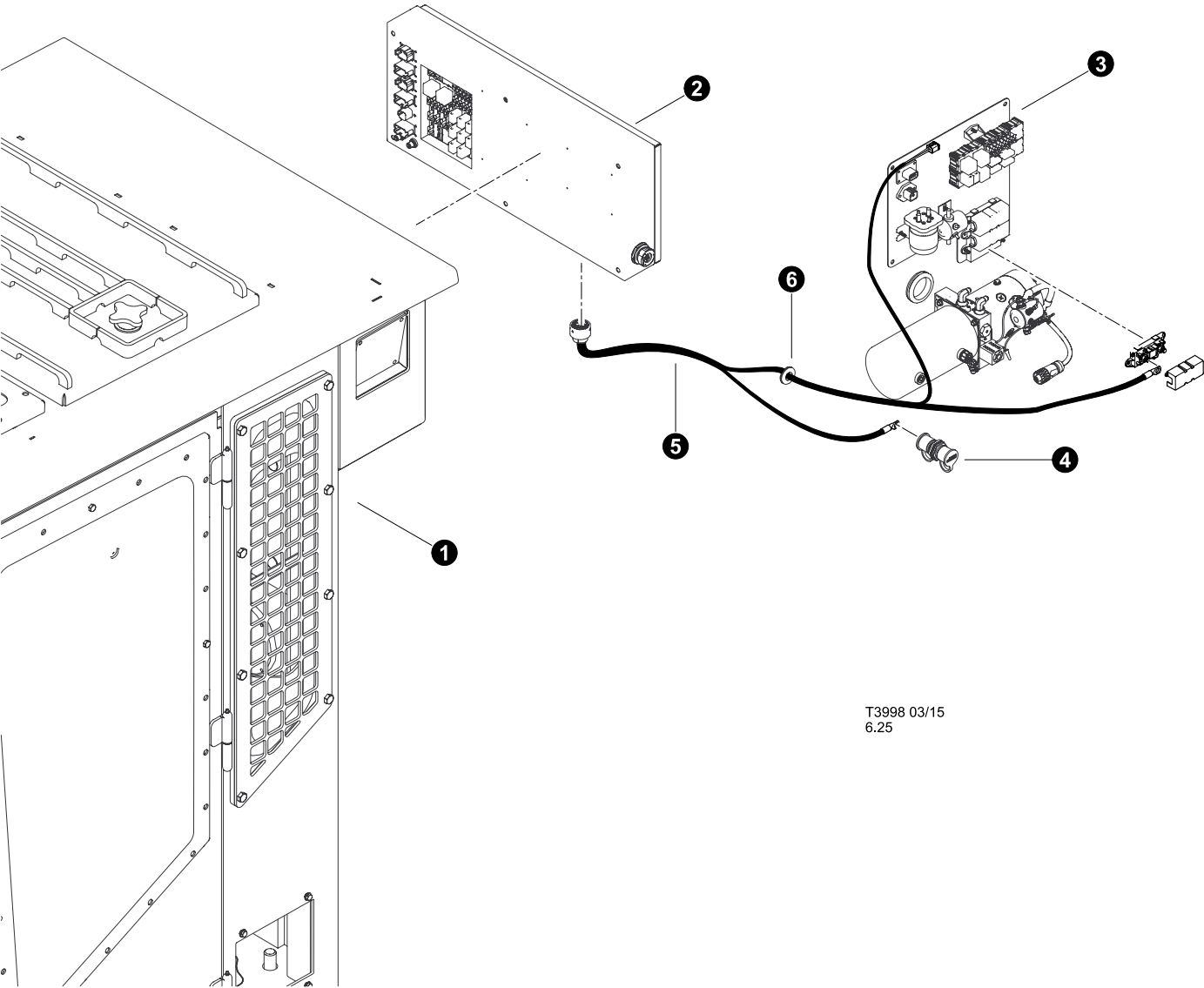
ENGINE ELECTRICAL SYSTEM

Battery Cables

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		STARTER	EE
2	55327-ES	1		CABLE, MASTER DISC. TO STARTER POS	
3	24300-ES	1		CABLE, BATTERY POS/NEG JUMPER	
4	55334-ES	1		CABLE, BAT. POSITIVE TO MAST. DISCONNECT	
5	25200-ES	1		SWITCH, MASTER SHUT-OFF(1/2" STUD)	
6	REF	1		BATTERY ASSEMBLY	ES-1
7	55333-ES	1		CABLE, MASTER DISC. to POWER + STUD	
8	54643-ES	1		STUD, THRU BATTERY CABLE POSITIVE +	
9	54642-ES	1		STUD, THRU BATTERY CABLE 1/2" NEGATIVE -	
10	55337-ES	1		CABLE, BATTER to GROUND STUD	
11	54614-ES	1		COVER, Positive battery post	
12	55329-ES	1		CABLE, Negative Stud to Upper Frame Grounding Bolt	
13	10783-ES	1		BOLT - .5" X 1"	
14	15534-ES	1		WASHER, SAE FLAT - .5"	
15	55328-ES	1		CABLE, Upper Frame Grounding Bolt to Starter Ground	



See referenced page for component or assembly breakdown.



T3998 03/15
6.25

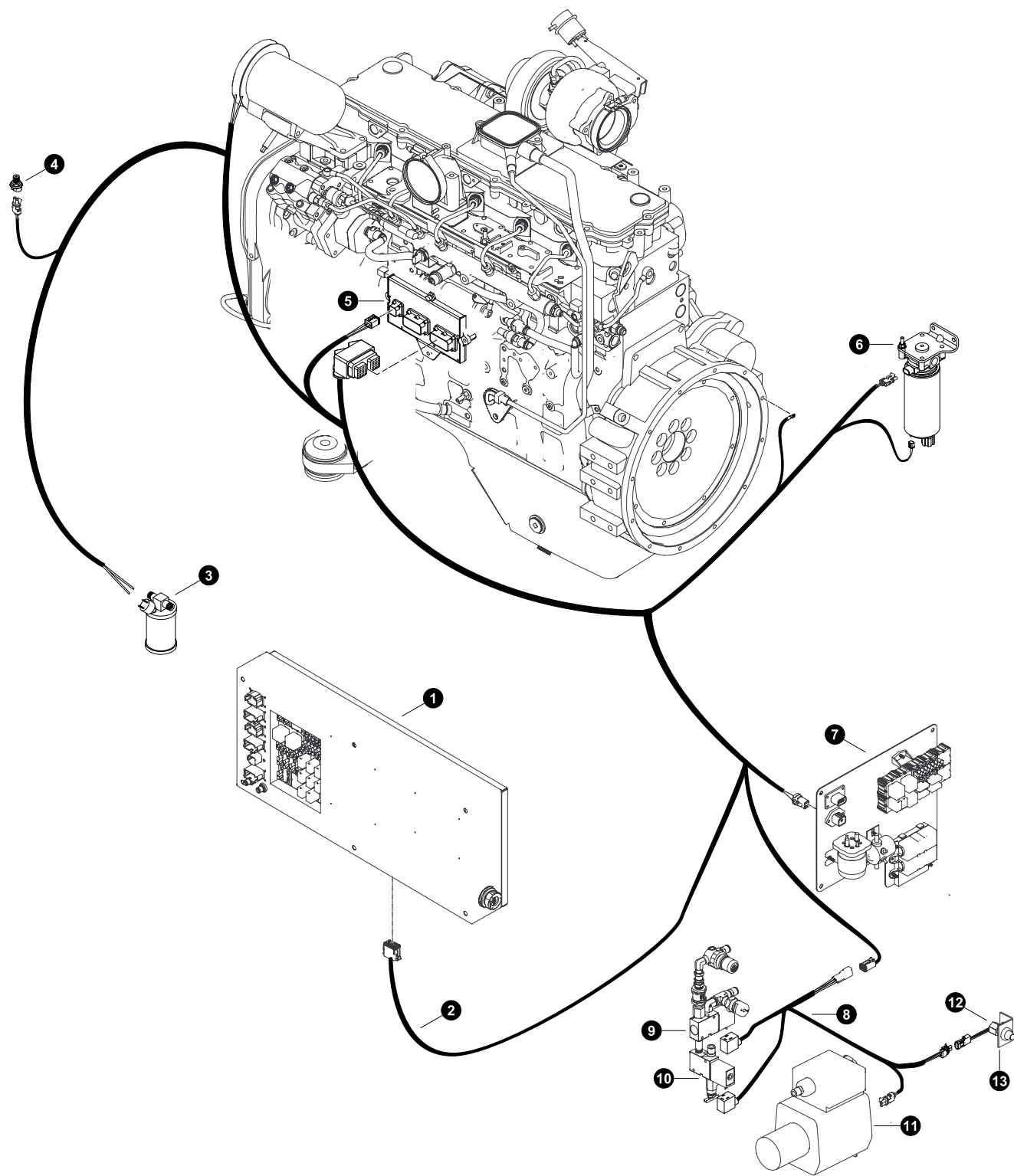
ENGINE ELECTRICAL SYSTEM

Cab Load Center Power Harness

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		CAB ASSEMBLY.....	OC-1
2	REF	1		CAB ELECTRICAL CENTER.....	ES-2
3	REF	1		ENGINE ELECTRICAL CENTER.....	ES-1
4	54643-ES	1		STUD, THRU BATTERY CABLE POSITIVE	
5	54581-ES	1		HARNESS, CAB Load Center Power	
6	-ES	1		GROMMET	



See referenced page for component or assembly breakdown.



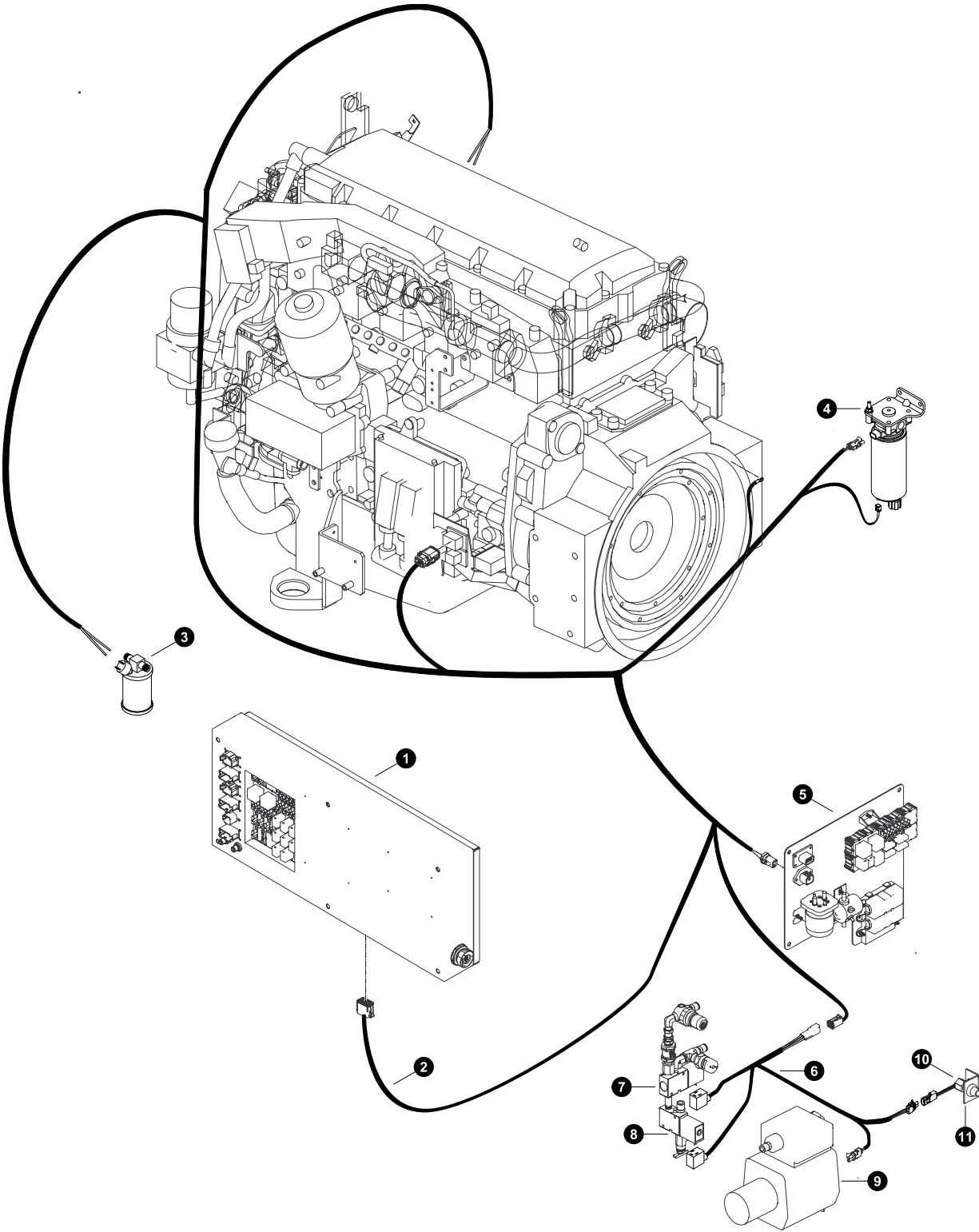
ENGINE ELECTRICAL SYSTEM

Main Engine Electrical Harness (Cummins QSC Tier3)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		CAB ELECTRICAL CENTER	ES-2
2	55191-ES	1		HARNESS, Engine - Tier3 Cummins C Series	
3	REF	1		DRIER, AC System	OC-3
4	52661-ES	1		SENSOR, LOW COOLANT - TIER 3	
5	REF.	1		ENGINE ECU	EE-1
6	REF	1		FUEL HEATER / FILTER ASSEMBLY	EE-1
7	REF	1		ENGINE ELECTRICAL CENTER	ES-1
8	55193-ES	1		HARNESS, VAC VENT Fill - C Series	
9	REF.	1		VACUUM VALVE	UP-2
10	REF.	1		VENT VALVE	UP-2
11	REF.	1		VACUUM PUMP	UP-2
12	25104-ES	1		SWITCH, FILL PUMP	



See referenced page for component or assembly breakdown.



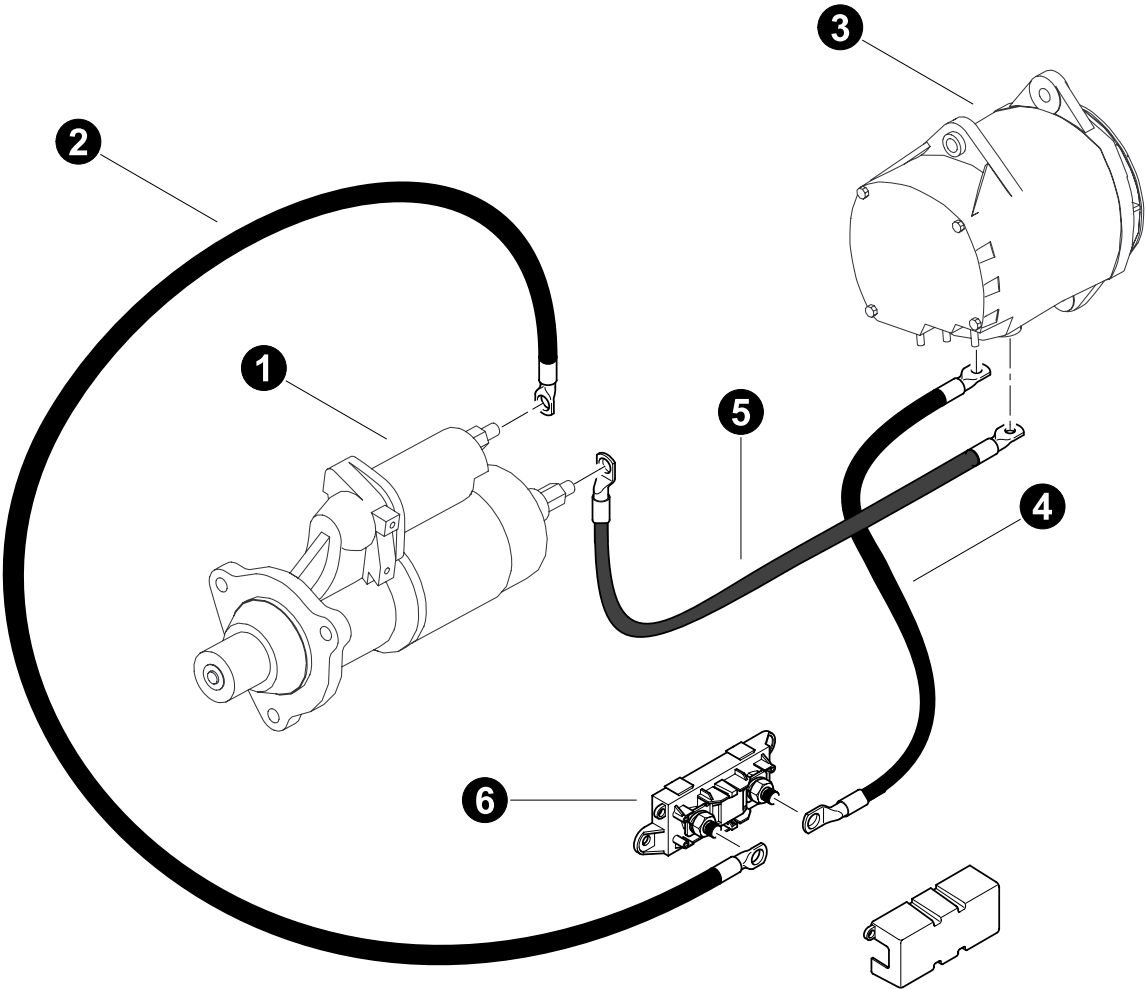
ENGINE ELECTRICAL SYSTEM

Main Engine Electrical Harness (Volvo Tier4)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		CAB ELECTRICAL CENTER	ES-2
2	55191-ES	1		HARNESS, Engine - Tier3 Cummins C Series	
3	REF	1		DRIER, AC System	OC-3
4	52661-ES	1		SENSOR, LOW COOLANT - TIER 3	
5	REF	1		FUEL HEATER / FILTER ASSEMBLY	EE-1
6	REF	1		ENGINE ELECTRICAL CENTER	ES-1
7	55193-ES	1		HARNESS, VAC VENT Fill - C Series	
8	REF.	1		VACUUM VALVE	UP-2
9	REF.	1		VENT VALVE	UP-2
10	REF.	1		VACUUM PUMP	UP-2
11	25104-ES	1		SWITCH, FILL PUMP	



See referenced page for component or assembly breakdown.



Parts T4000 03/15
18.75

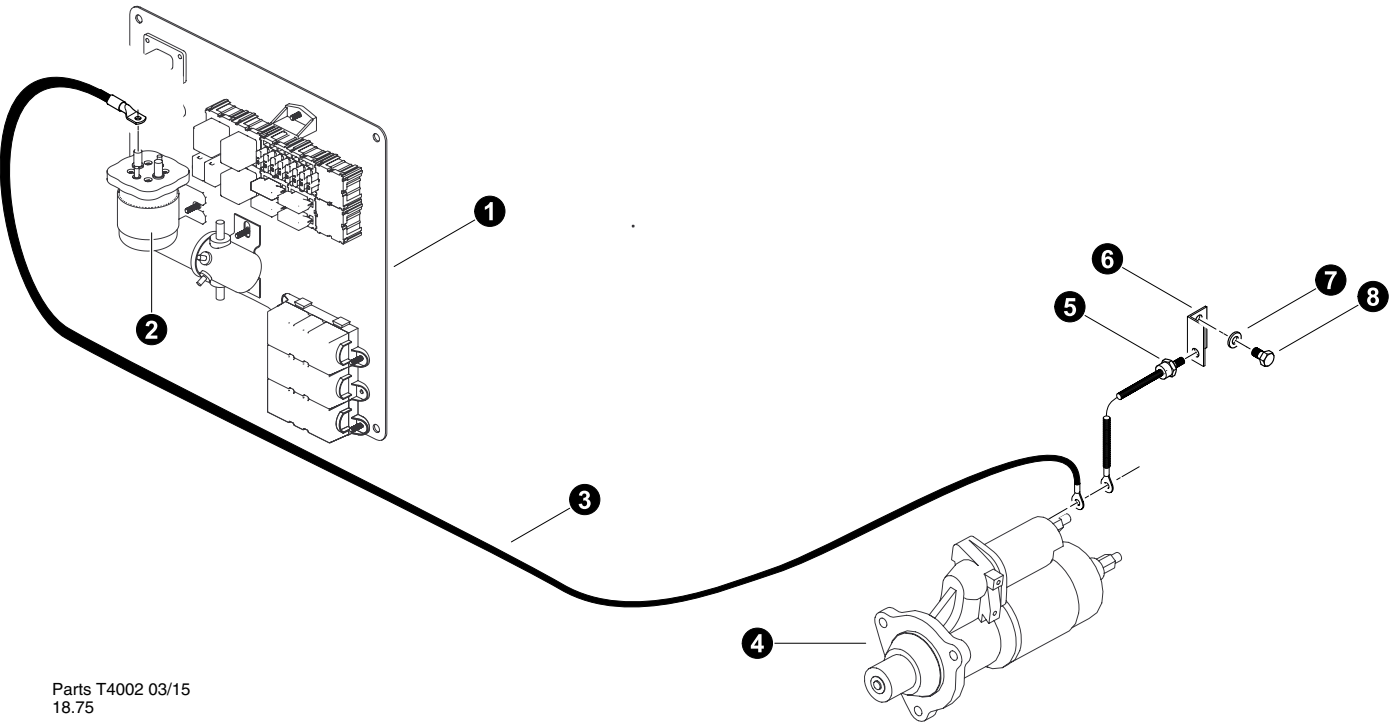
ENGINE ELECTRICAL SYSTEM

Alternator Electrical

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		STARTER	EE
2	55332-ES	1		CABLE, BATTERY - POSITIVE - "C" - 26"	
3	REF.	1		ALTERNATOR	EE
4	55330-ES			CABLE, BATTERY - POSITIVE - "C" - 32"	
5	55331-ES	1		CABLE, BATTERY - NEGATIVE - "C" - 38"	
6	22247-ES	1		HOLDER, FUSE MEGA	
-	23619-ES	1		FUSE, 100 AMP (MEGA)	



See referenced page for component or assembly breakdown.



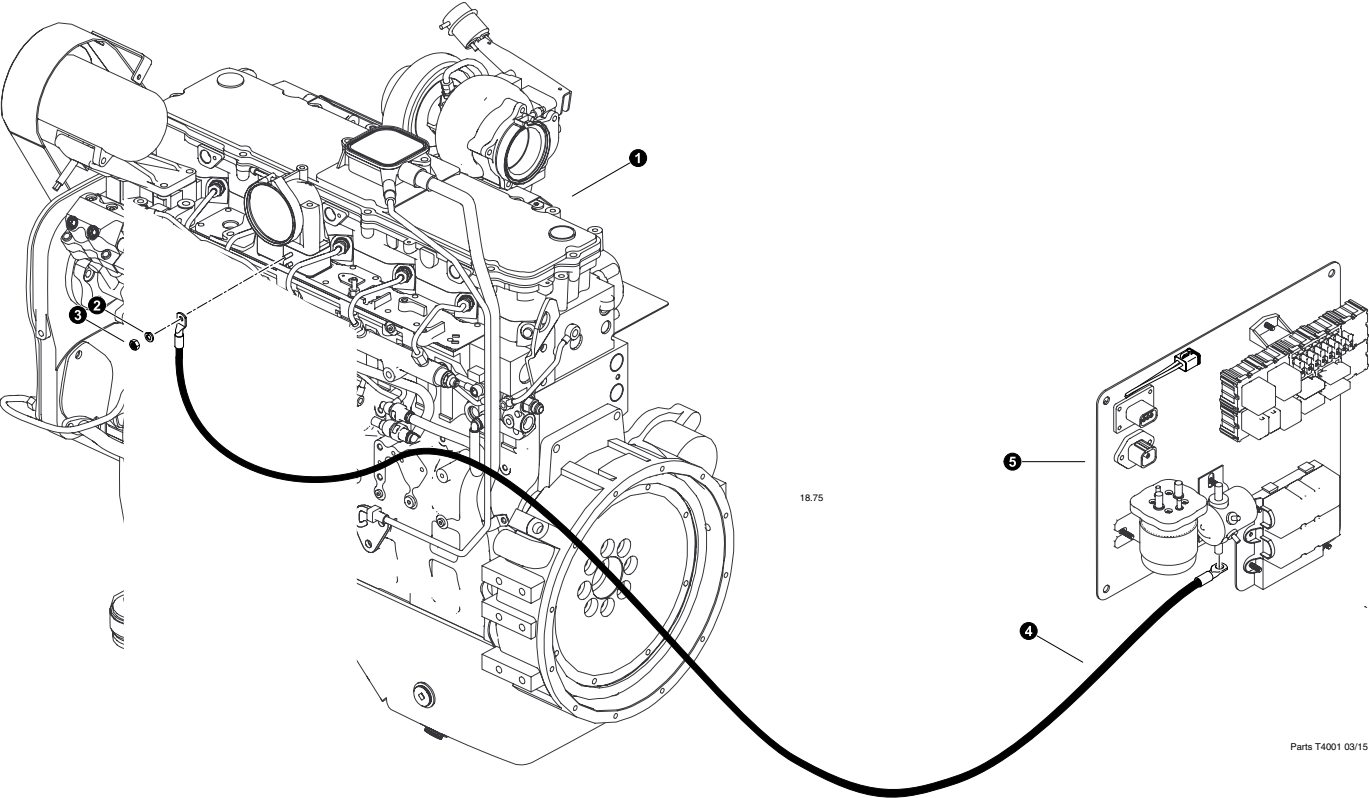
Parts T4002 03/15
18.75

ENGINE ELECTRICAL SYSTEM**Starter Electrical
(Cummins QSC Only)**

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ENGINE ELECTRICAL CENTER ASSEMBLY	ES-1
2	REF.	1		STARTER RELAY	ES-1
3	55194-ES	1		CABLE, START RELAY TO STARTER SOL.	
4	REF.	1		STARTER	EE
5	25052-ES	1		DIODE, assembly engine start relay	
6	25058-ES	1		BRACKET, DIODE MOUNTING (CUM. C ENG.)	
7	15528-ES	1		WASHER, SAE FLAT - .375"	
8	18416-ES	1		BOLT - 10MM-1.5P X 25MM	



See referenced page for component or assembly breakdown.

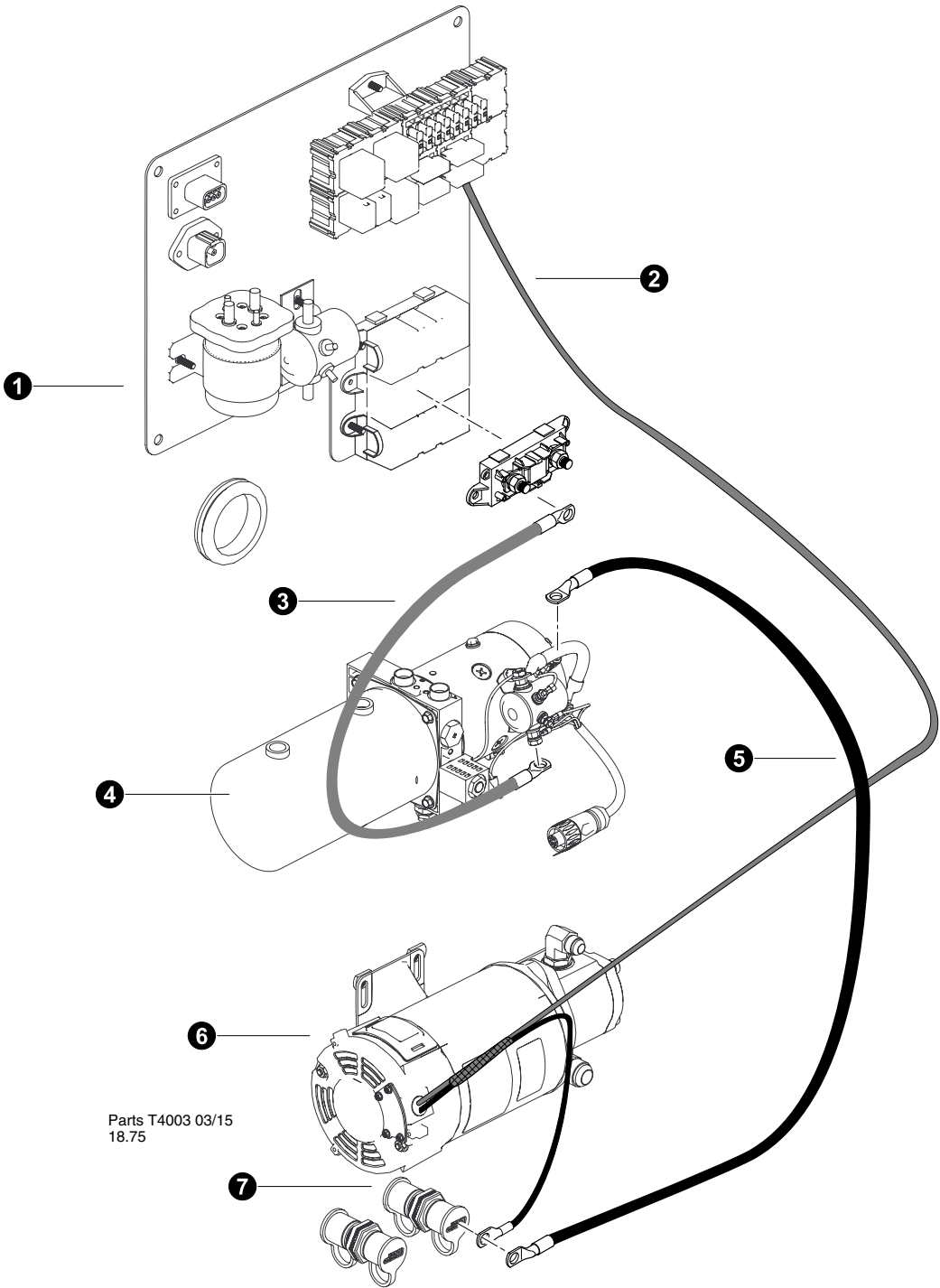


ENGINE ELECTRICAL SYSTEM**Grid Heater Cable
(Cummins QSC Only)**

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	EF.	1		ENGINE	EE-1
2	10756-ES	1		WASHER, LOCK - .25"	
3	16117-ES	1		NUT, HEX - 6MM	
4	55446-ES	1		CABLE, GRID HEATER (C-Series)	
5	REF.	1		ENGINE ELECTRICAL CENTER ASSEMBLY.....	ES-1



See referenced page for component or assembly breakdown.



ENGINE ELECTRICAL SYSTEM

Fill Pump and Gull Wing Lift Pump Harness

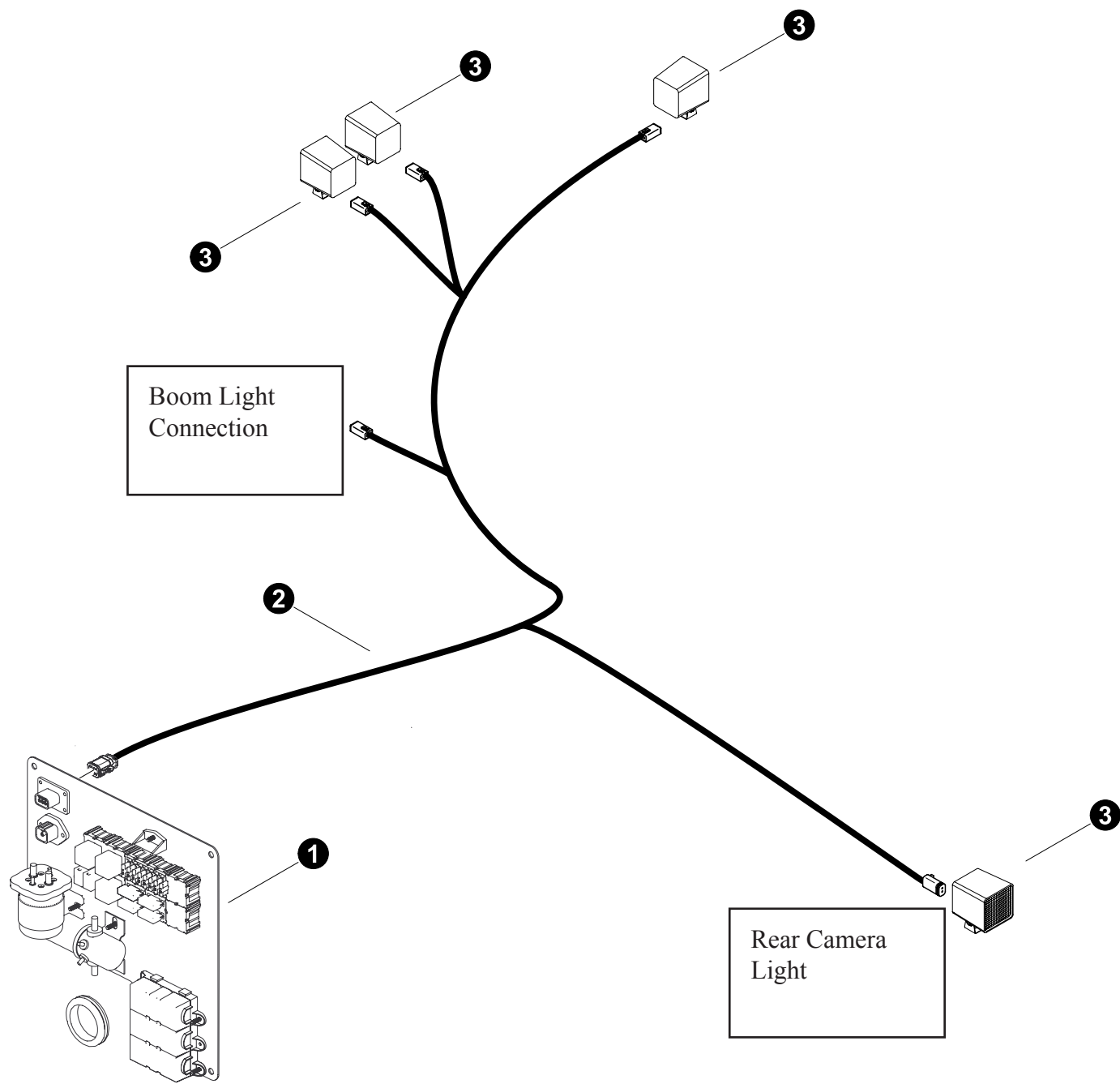
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1	☐	ENGINE ELECTRICAL CENTER ASSEMBLY	ES-1
2	NSS	1		HARNESS, Fill Pump (part of Engine Electrical Center)	
3	53019-ES	1		CABLE, FILL PUMP/DOOR PUMP (SN 0073 and 0351 and Before)	
4	REF.	1	☐	GULLWING DOOR LIFT PUMP	UP-1
5	55336-ES	1		BH Panel Ground Lug to Lift Pump	
6	REF	1	☐	FILL PUMP ASSEMBLY	UP-2
7	54642-ES	1		STUD, THRU BATTERY CABLE 1/2" NEGATIVE	



See referenced page for component or assembly breakdown.



Assembly that includes all items indented below.



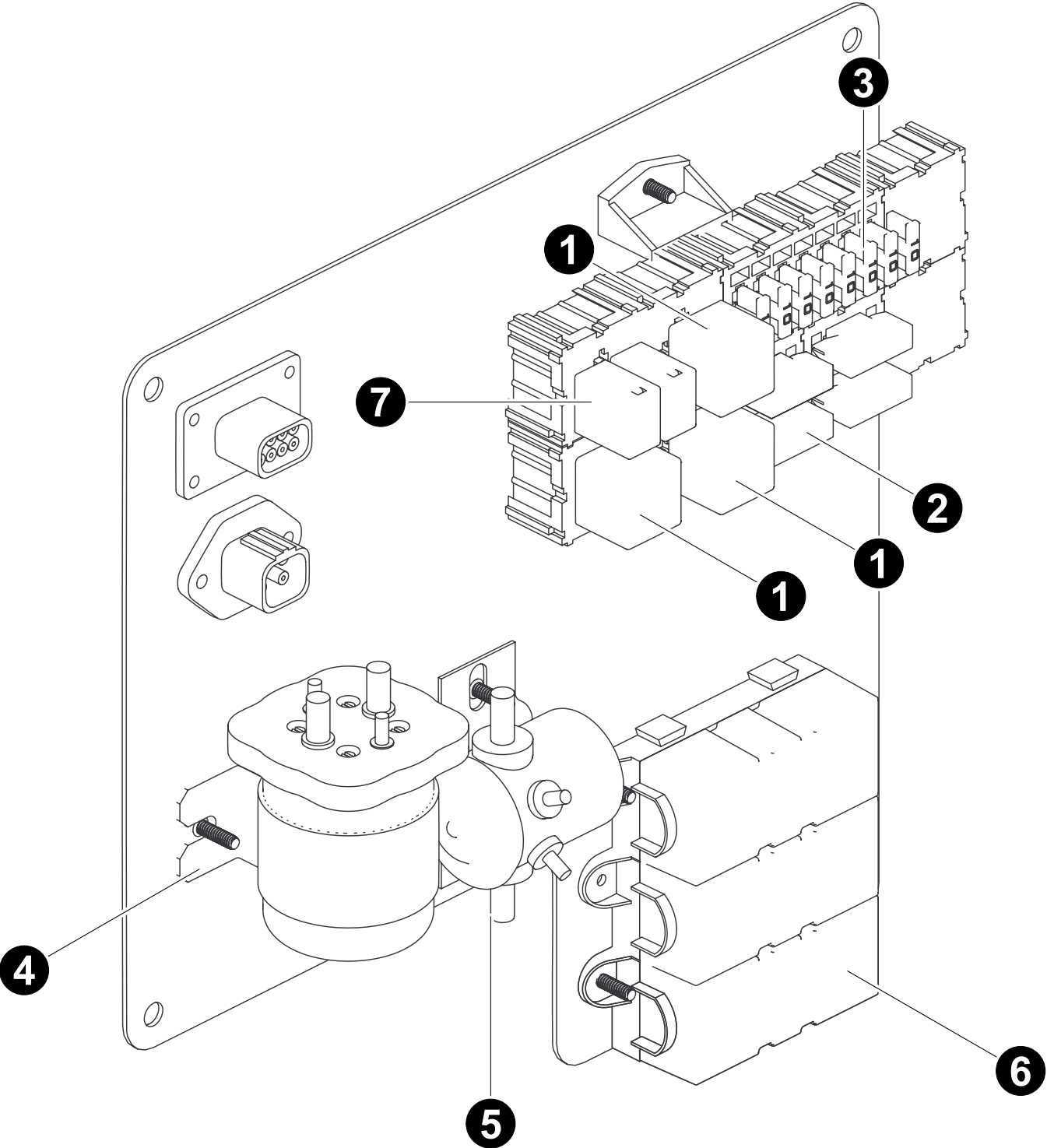
Parts T4004 03/15
18.75

FRONT DOOR, BOOM and REAR LIGHT HARNESSES

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ENGINE ELECTRICAL CENTER ASSEMBLY	ES-1
2	54542-ES	1		HARNESS, Lights-Front Door - Tier4	
3	REF.	1		LIGHTS	ES-1



See referenced page for component or assembly breakdown.



Parts T4005 03/15

ENGINE ELECTRICAL SYSTEM

Engine Electrical Center Breakdown

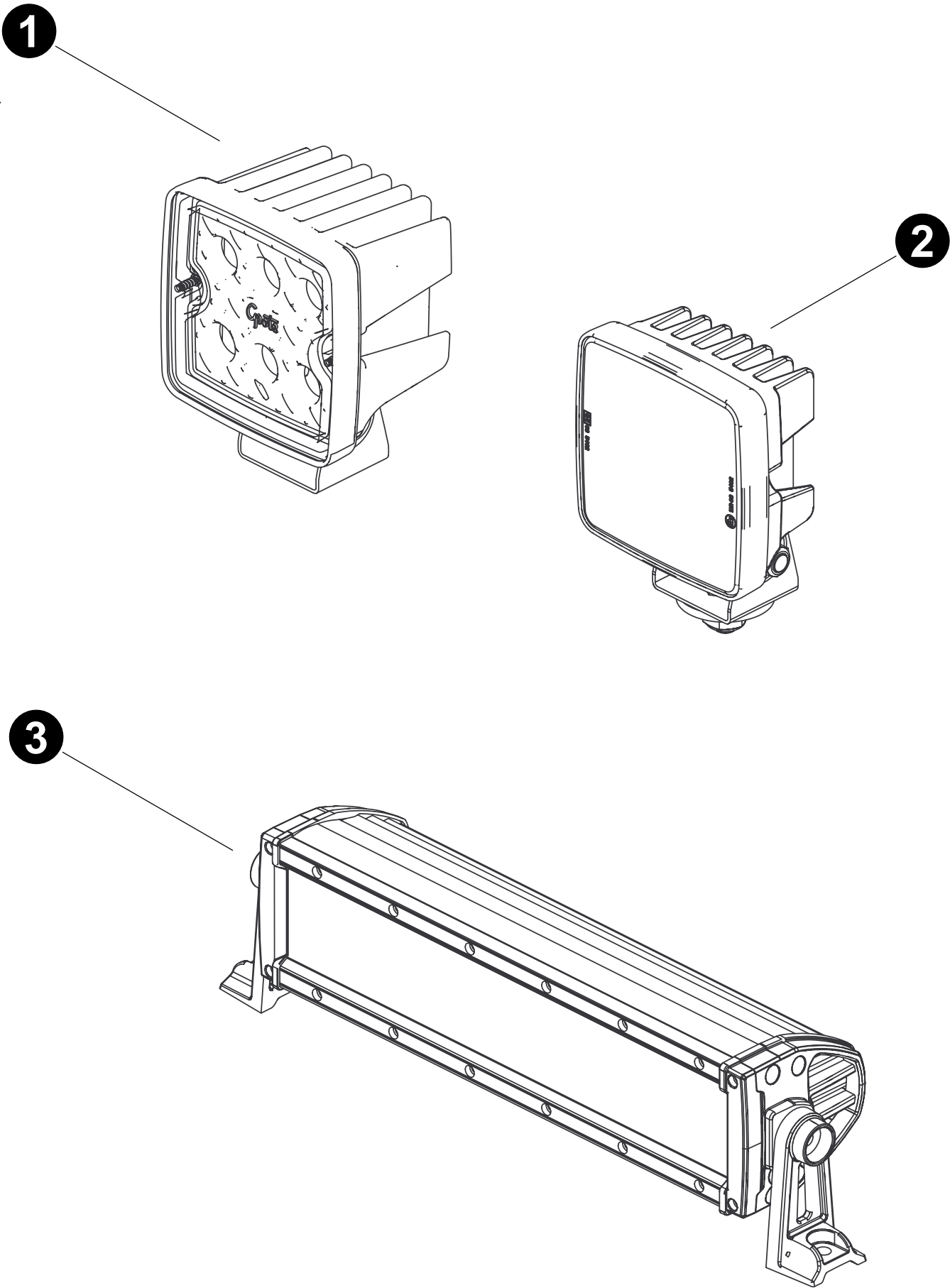
REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	55189-ES	1	☐	LOAD CENTER - TIER 4F (C SERIES LH)	
1	51755-ES	3		RELAY, 70 AMP - LIGHTS / IGNITION / ACCESORY / Fill Pump	
2	21892-ES	2		FUSE, MAXI - 30 AMP (lights)	
	21893-ES	2		FUSE, MAXI - 50 AMP (starter, fill pump)	
3	24512-ES	4		FUSE, ATO - 10 AMP (lights)	
	51754-ES	1		FUSE, ATO - 20 AMP (Engine Pre Heater)	
	50401-ES	1		FUSE, ATO - 30 AMP (Cummins ECU)	
4	25117-ES	1		RELAY, STARTER - 24 volt (WHITE/ROGERS)	
5	25199-ES	1		RELAY, GRID HEATER - 24 volt (COLE HERSEE)	
6	23619-ES	3		FUSE, 100 AMP - MEGA (cab power supply, gull wing lift pump, grid heater, alternator)	
7	53645-ES	2		RELAY, AZ988-1C-24DE-C1 / American Zettler	
	21890-ES	1		FUSE, MINI - 5 AMP (Horn)	
	21887-ES	1		FUSE, MINI - 15 AMP (Gear Box Pump)	



See referenced page for component or assembly breakdown.



Assembly that includes all items indented below.



ENGINE ELECTRICAL SYSTEM

Lights

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	54670-ES	1	LIGHT, LED - C SERIES - SPOT/FLOOD	
2	50999-ES	1	LIGHT, LED - BOOM / Gullwing MOUNTED - FLOOD	
3	55550-ES	1	LIGHT, CAB - 10" LED LIGHT BAR	



See referenced page for component or assembly breakdown.



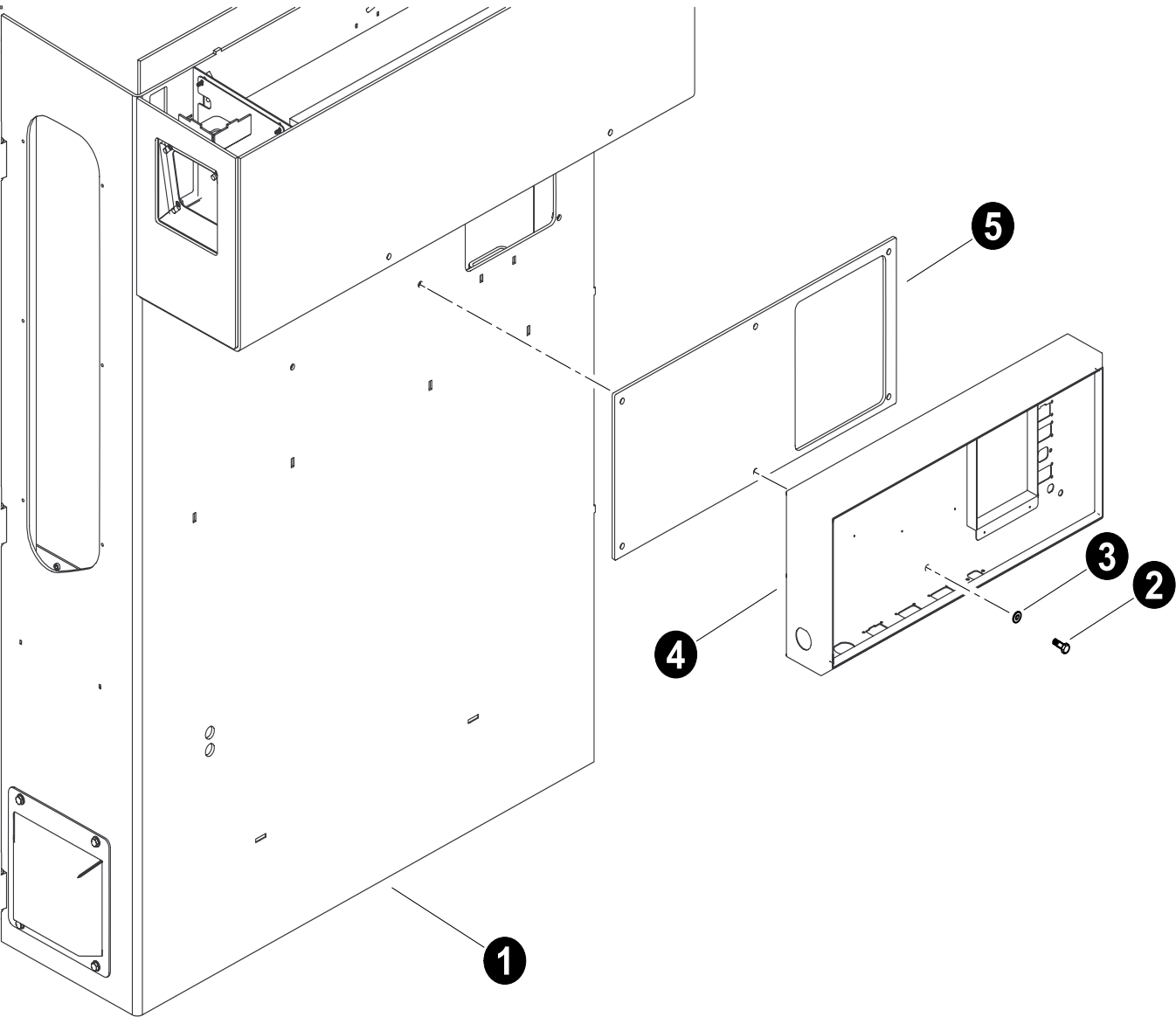
Assembly that includes all items indented below.

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Section ES-2

Electrical System - Operator's Cab

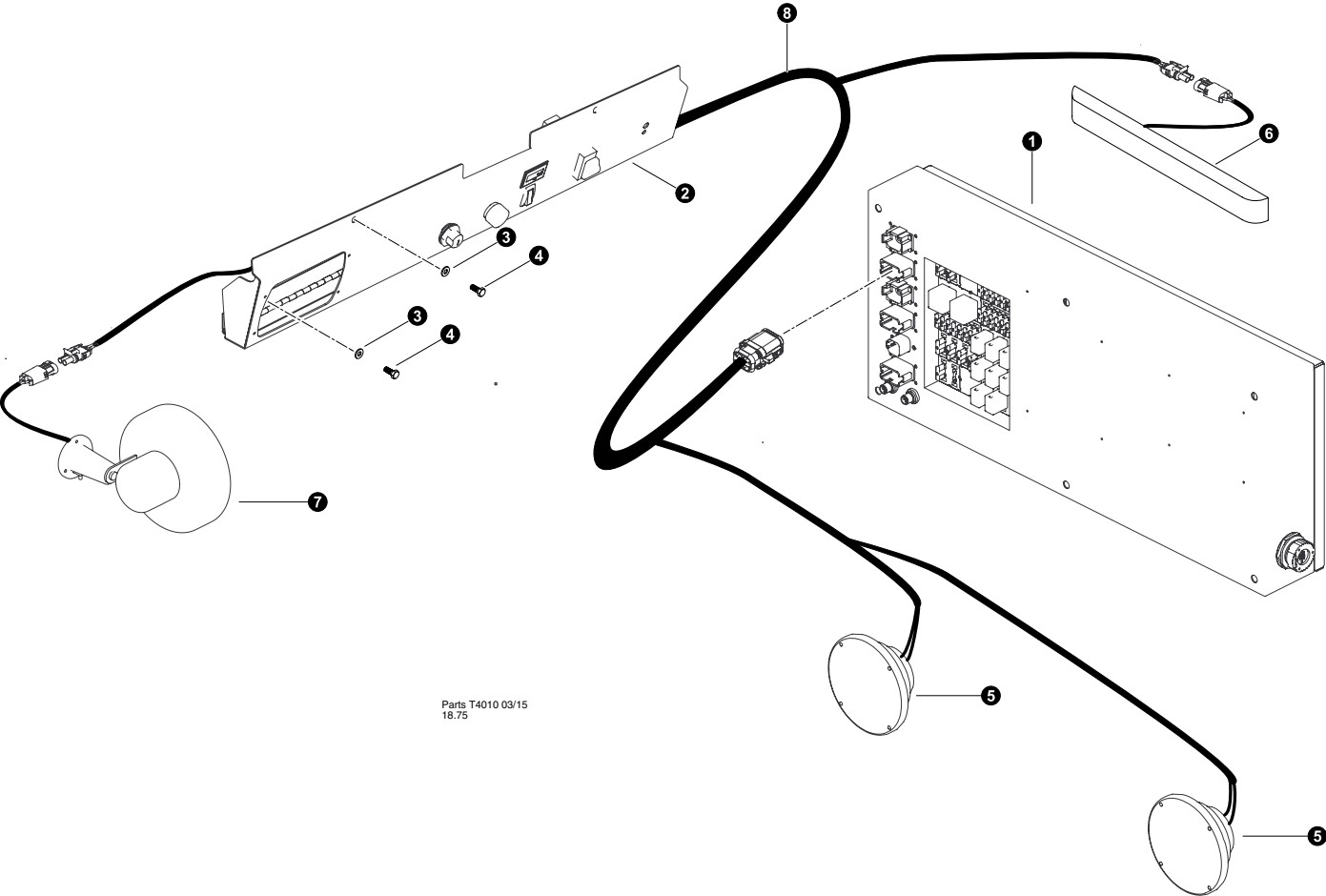


Parts T4009 03/15
18.75

MAIN ELECTRICAL CENTER INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		OPERATOR'S CAB ASSEMBLY	OC-1
2	18309-ES	5		BOLT - .25" X 1.25"	
3	10757-ES	5		WASHER, SAE FLAT - .25"	
4	REF	1		MAIN ELECTRICAL CENTER ASSEMBLY	ES-2
5	46684-ES	1		RUBBER, CAB TO ELECTRICAL BOX - C MODEL	

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



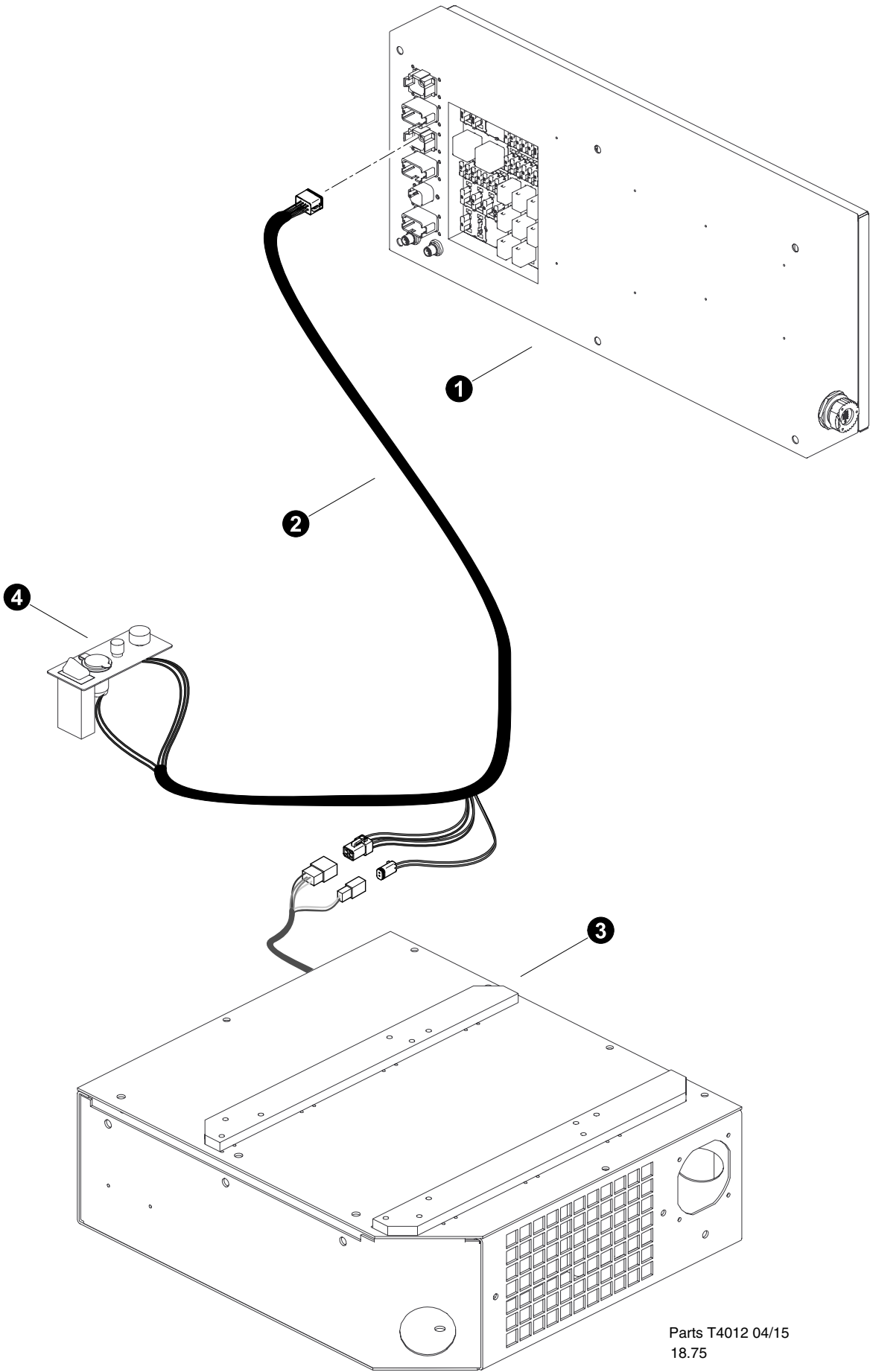
Parts T4010 03/15
18.75

UPPER DASH INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		MAIN ELECTRICAL CENTER ASSEMBLY	ES-2
2	REF	1		UPPER DASH ASSEMBLY.	ES-2
3	10757-ES	7		WASHER, SAE FLAT - .25"	
4	15604-ES	7		BOLT - .25" X .75"	
5	52639-ES	2		SPEAKER, HEAVY DUTY - ASA	
6	55092-ES	1		LIGHT, DOME - 24V LED	
7	23279-ES	1		FAN, WINDSHIELD DEFROST - 24V	
8	54500-ES	1		HARNESS, DASH C Series	

 Kit or Assembly - includes all items indented underneath.

 See referenced page for component or assembly breakdown.



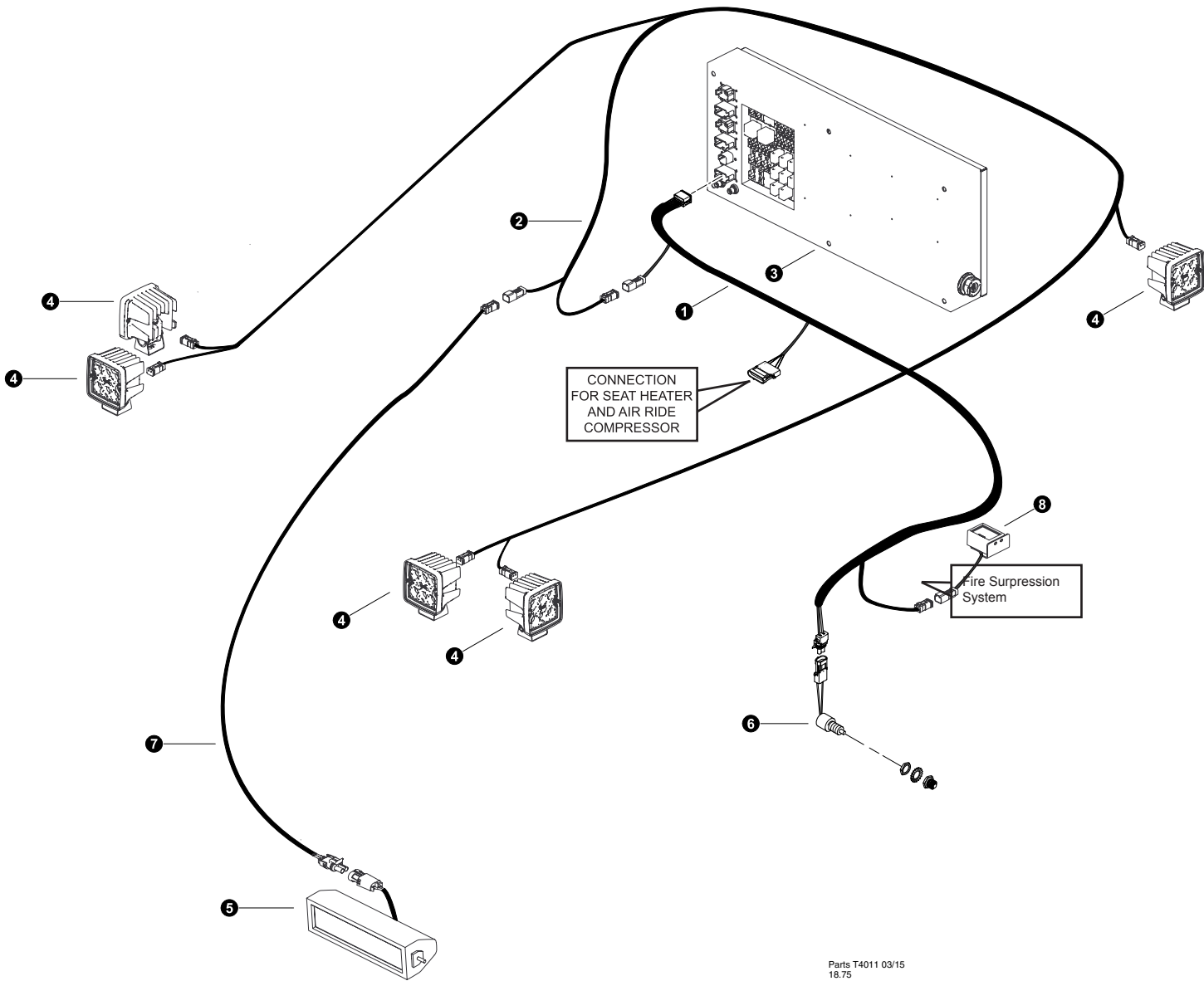
Parts T4012 04/15
18.75

A/C AND HEATER CONNECTIONS

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		MAIN ELECTRICAL CENTER ASSEMBLY	ES-2
2	54503-ES	1		HARNESS, Heater Controls	
3	REF	1		HEATER A/C UNIT ASSEMBLY	OC-2
4	REF	1		AC-Heater Control Panel	ES-2

 Kit or Assembly - includes all items indented underneath.

 See referenced page for component or assembly breakdown.



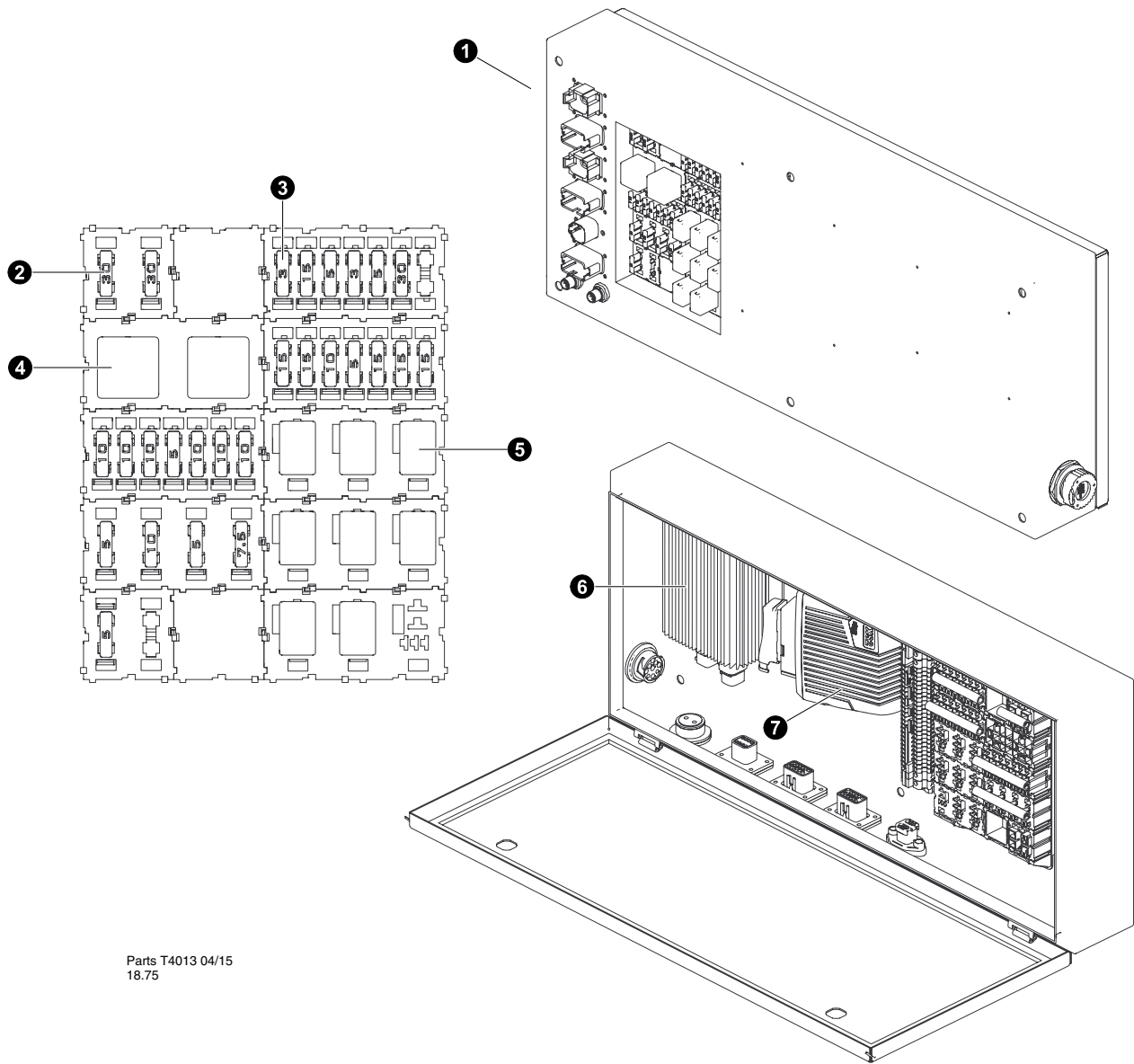
Parts T4011 03/15
18.75

OPERATOR'S CAB ELECTRICAL HARNESS (Lights and Radio)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	54501-ES	1	☐	HARNESS, CAB - LOWER	
2	NSS	1		HARNESS, CAB LIGHTS	REF
3		☐		MAIN ELECTRICAL CENTER ASSEMBLY	ES-2
4	REF	3		LIGHT ASSEMBLIES	ES-2
5	REF	3		LIGHT ASSEMBLIES	ES-2
6	25104-ES	1		SWITCH, FILL PUMP / DOOR	
7	57202-ES	1		HARNESS, CAB FRONT LOWER LIGHT	

☐ Kit or Assembly - includes all items indented underneath.

☐ See referenced page for component or assembly breakdown.



Parts T4013 04/15
18.75

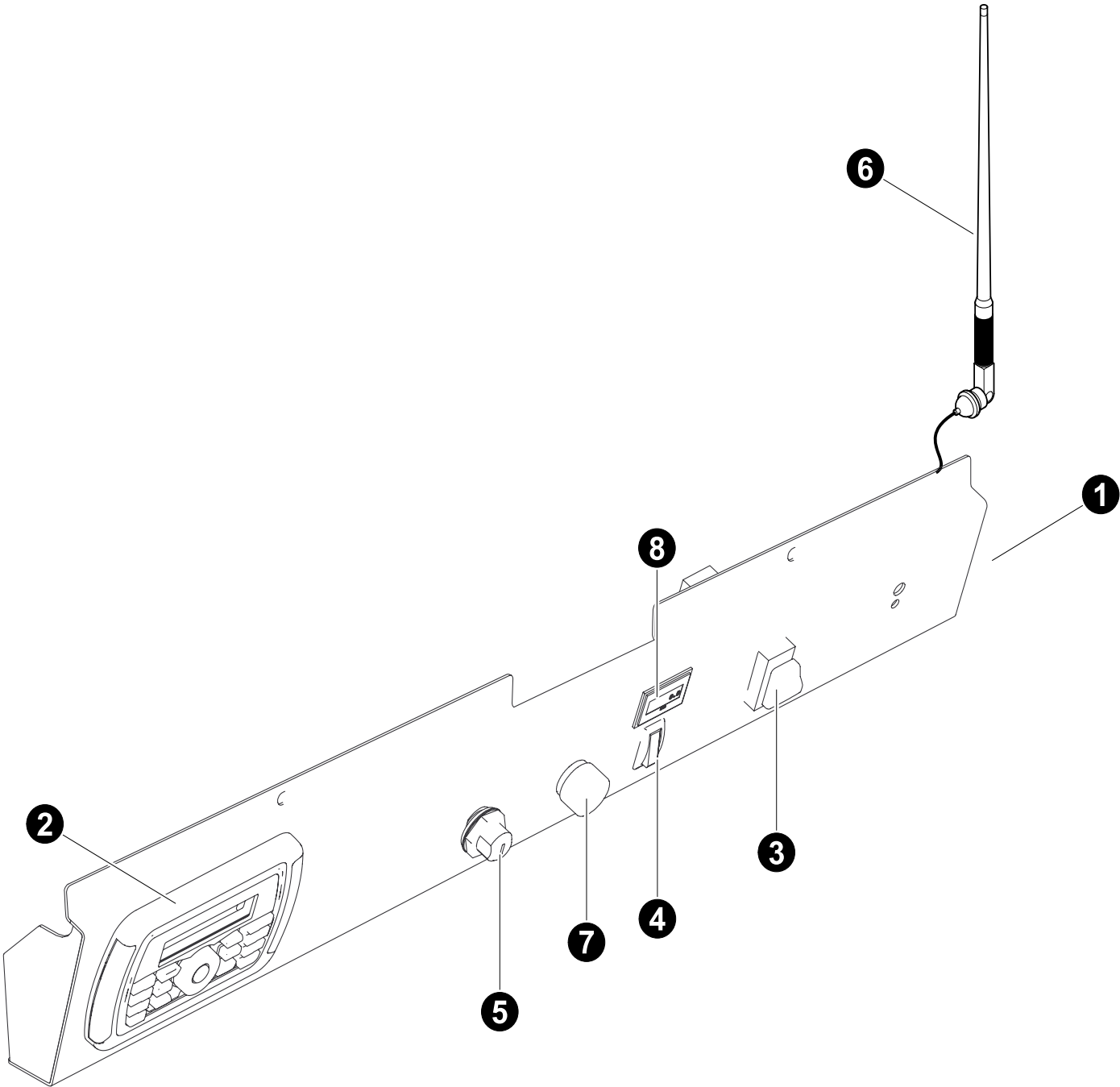
MAIN ELECTRICAL CENTER BREAKDOWN

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	55189-ES	1	□	LOAD CENTER - TIER 4F (C SERIES LH CAB)	
2	50401-ES	2		FUSE, ATO - 30 AMP (SPADE STYLE)	
3	24511-ES	2		FUSE, ATO - 3 AMP (SPADE STYLE)	
	24533-ES	7		FUSE, ATO - 5 AMP (SPADE STYLE)	
	24534-ES	1		FUSE, ATO - 7.5 AMP (SPADE STYLE)	
	24512-ES	8		FUSE, ATO - 10 AMP (SPADE STYLE)	
	50400-ES	6		FUSE, ATO - 15 AMP (SPADE STYLE)	
	50401-ES	1		FUSE, ATO - 30 AMP (SPADE STYLE)	
4	24323-ES	2		RELAY, 896H-1CH-D-24VDC (SPDT 30/50A 24VDC)	
5	53645-ES	8		RELAY, AZ988-1C-24DE-C1 (SPDT 30A 24VDC)	
6	55483-ES	1		CONVERTER, 24V TO 12V - "C" SERIES	
7	53095-ES	1		MODULE, XA2 - IQAN	

- 51753-ES 1 KIT, ELECTRICAL- FUSE/RELAY- 830/630 24V

□ Kit or Assembly - includes all items indented underneath.

📖 See referenced page for component or assembly breakdown.



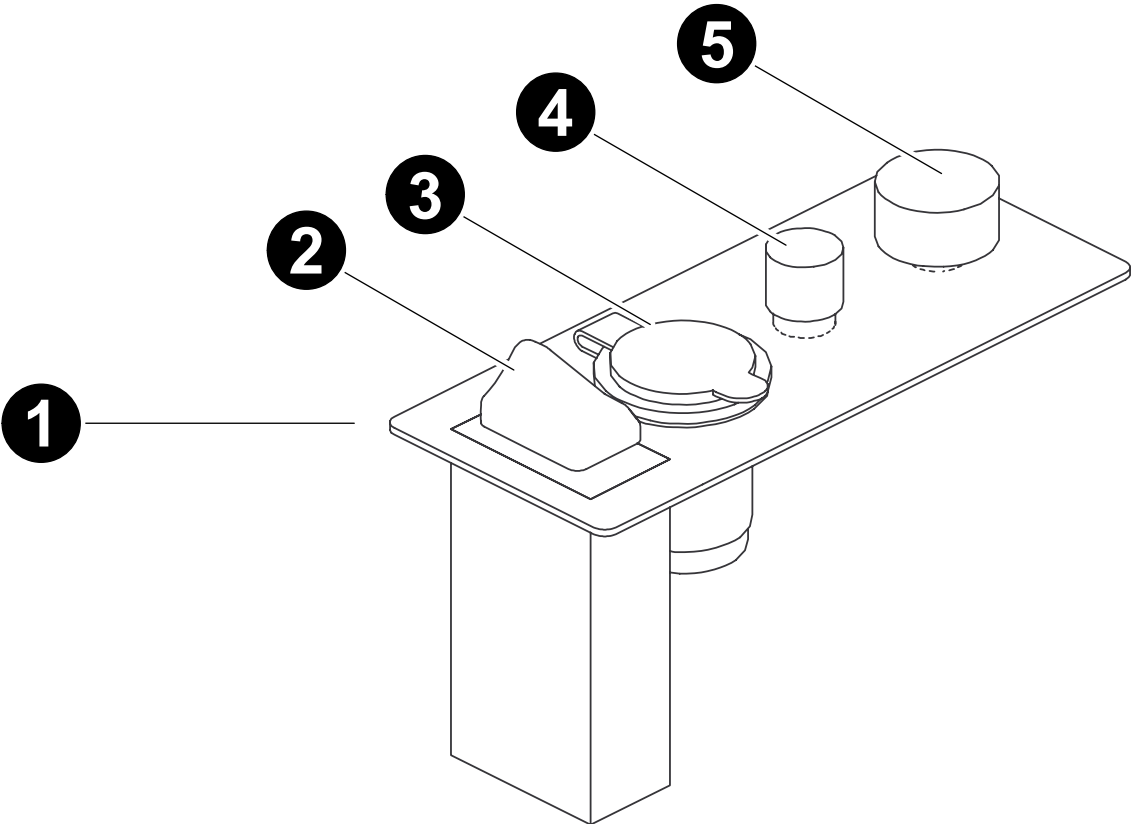
Parts T4014 04/15
18.75

UPPER DASH BREAKDOWN

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	1051874-ES	1	PANEL, DASH Left C cab	
-	REF	1	DECAL, Dash	UP-4
2	55400-ES	1	RADIO, C SERIES W/USB PORT BLUETOOTH	
3	51673-ES	1	SWITCH, VENT/ VACUUM	
4	51664-ES	1	SWITCH, LIGHT	
5	52414-ES	1	 SWITCH, IGNITION	
-	52417-ES	2	KEY, IGNITION	
6	24583-ES	1	ANTENNA, radio 1" hole	
6	51673-ES	1	SWITCH, VENT/ VACUUM	
7	53242-ES	1	SWITCH, EMERGENCY STOP	
8	15025-ES	1	GAUGE, HOURMETER	

 Kit or Assembly - includes all items indented underneath.

 See referenced page for component or assembly breakdown.



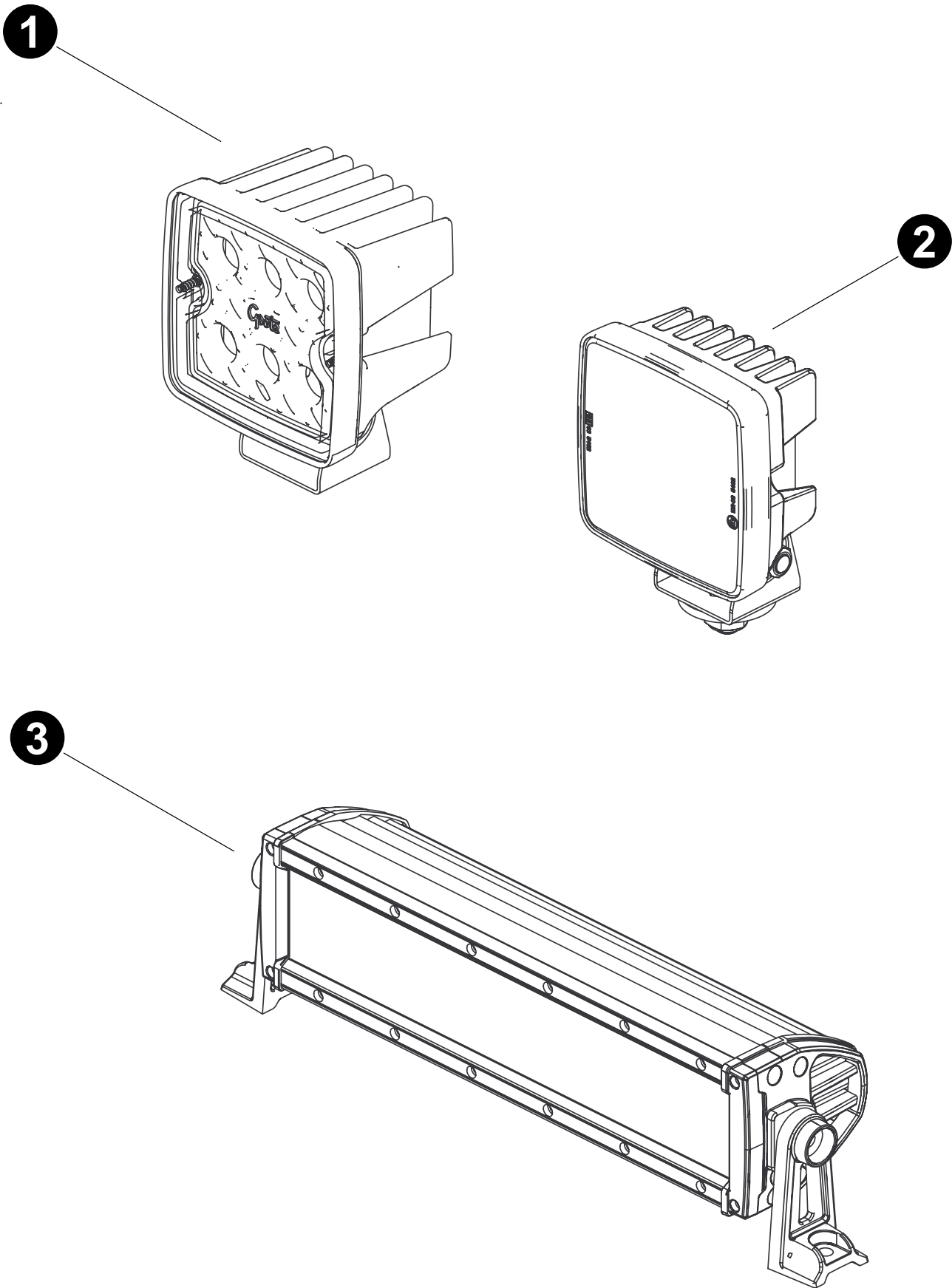
Parts T4015 04/15
18.75

UPPER DASH BREAKDOWN

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	-ES	1	DASH ASSEMBLY - HEATER - AC	
-	REF	1	DECAL, Dash HEATER AC	UP-4
2	51671-ES	1	SWITCH, AC/HEAT MODE - OTTO (1 PER)	
3	55662-ES	1	POWER, POINT - AUX - C SERIES	
4	-ES	1	CONTROL, WATER VALVE	OC-4
5	54506-ES	1	FAN SPEED CONTROL (BT1-0147)	

 Kit or Assembly - includes all items indented underneath.

 See referenced page for component or assembly breakdown.



Parts T4006 03/15

CAB LIGHTS BREAKDOWN

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	54670-ES	1	LIGHT, LED - C SERIES - FLOOD	
2	50999-ES	1	LIGHT, BOOM MOUNTED - LED LAMPS	
3	55550-ES	1	LIGHT, CAB - 10" LED LIGHT BAR	



See referenced page for component or assembly breakdown.

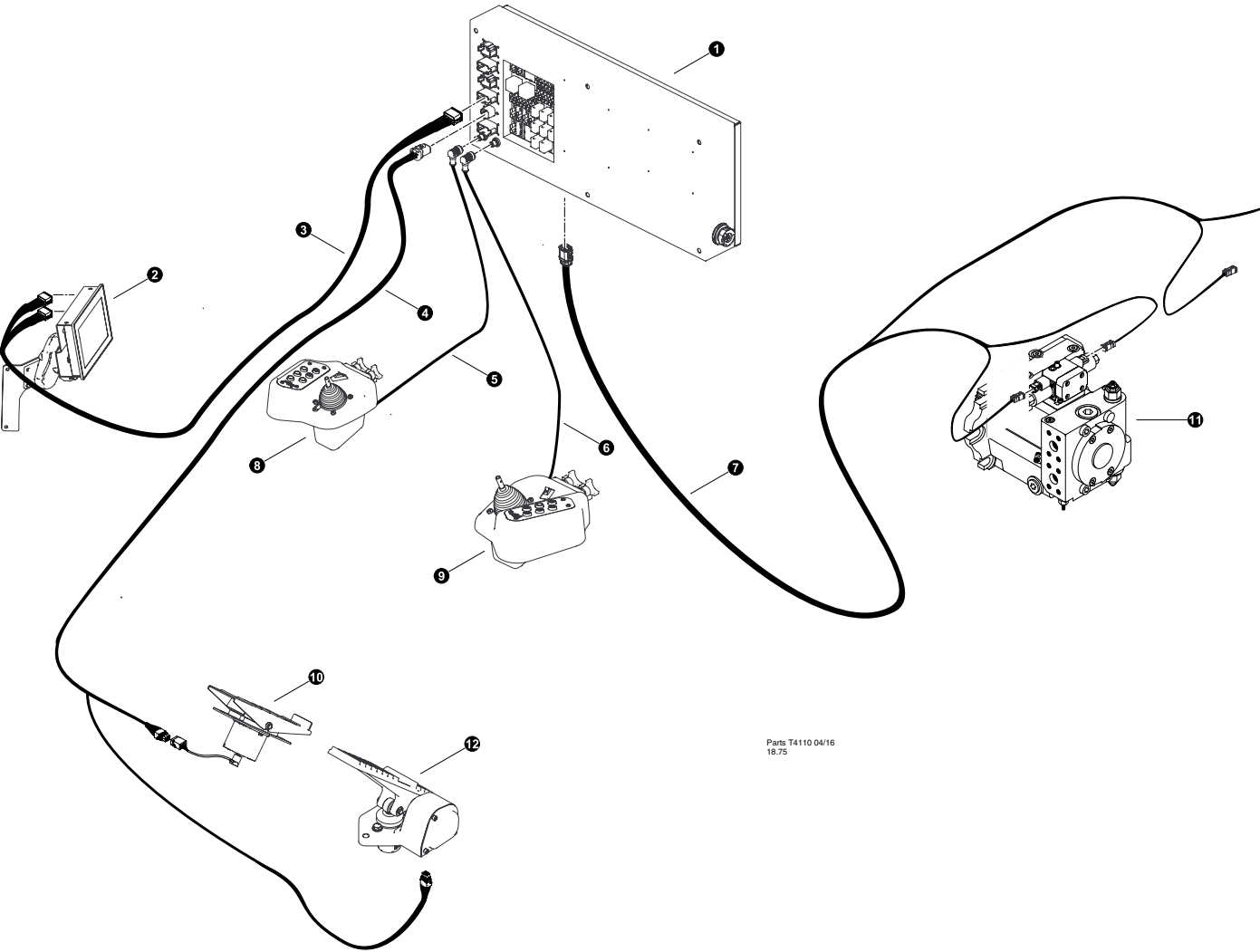


Assembly that includes all items indented below.

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Section ES-3

Electrical System - IQAN Control System

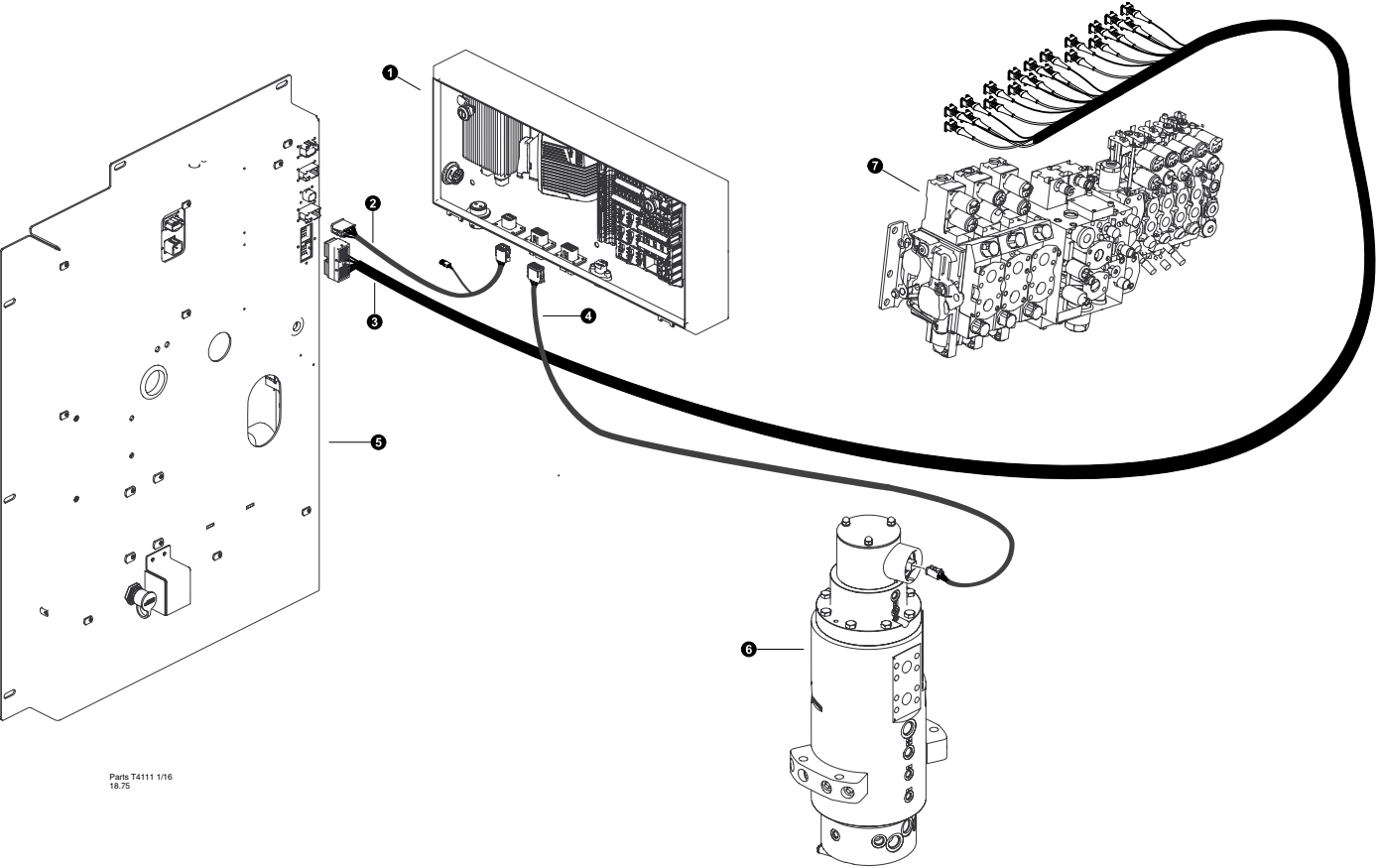


IQAN - CAB CONTROL HARNESS

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		CAB ELECTRICAL CENTER	ES-2
2	REF.	1		MDL PANEL ASSEMBLY	ES-3
3	55392-ES	1		HARNESS, MD4 to Load Center	
4	55394-ES	1		HARNESS, Pedals to Load Center	
5	55420-ES	1		HARNESS, INTERCONNECT JOYSTICK POD RH	
6	55419-ES	1		HARNESS, INTERCONNECT JOYSTICK POD LH	
7	54528-ES	1		HARNESS, Hydro Pumps	
8	REF.	1		RIGHT JOYSTICK CONTROL POD.	ES-3
9	REF.	1		LEFT JOYSTICK CONTROL POD.	ES-3
10	REF.	1		DRIVE PEDAL CONTROL	ES-3
11	REF.	1		WHEEL DRIVE PUMP	WD-1
12	REF.	1		BRAKE PEDAL.	ES-3



See referenced page for component or assembly breakdown.

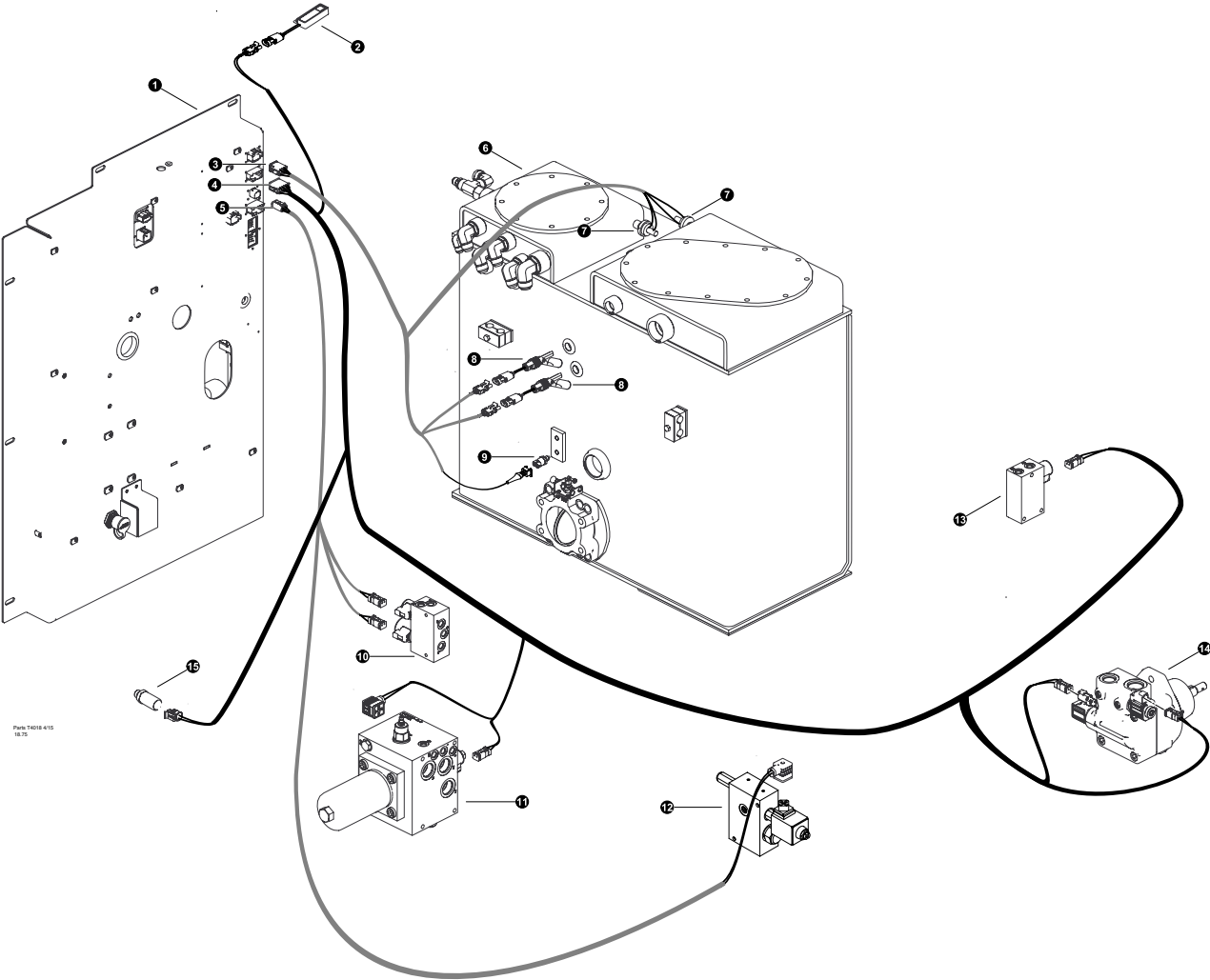


IQAN - Control Valve, XA2 Panel, and Rotary Manifold

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		CAB ELECTRICAL CENTER	ES-2
2	54527-ES	1		HARNESS, XA2 panel to Cab Load Center	
3	54524-ES	1		HARNESS, VALVE MD4	
4	54530-ES	1		HARNESS, Rotary Manifold	
5	REF	1		XA2 PANEL ASSEMBLY	ES-3
6	REF	1		ROTARY MANIFOLD	UP-1
7	REF.	1		MAIN CONTROL VALVE	LH/HH



See referenced page for component or assembly breakdown.

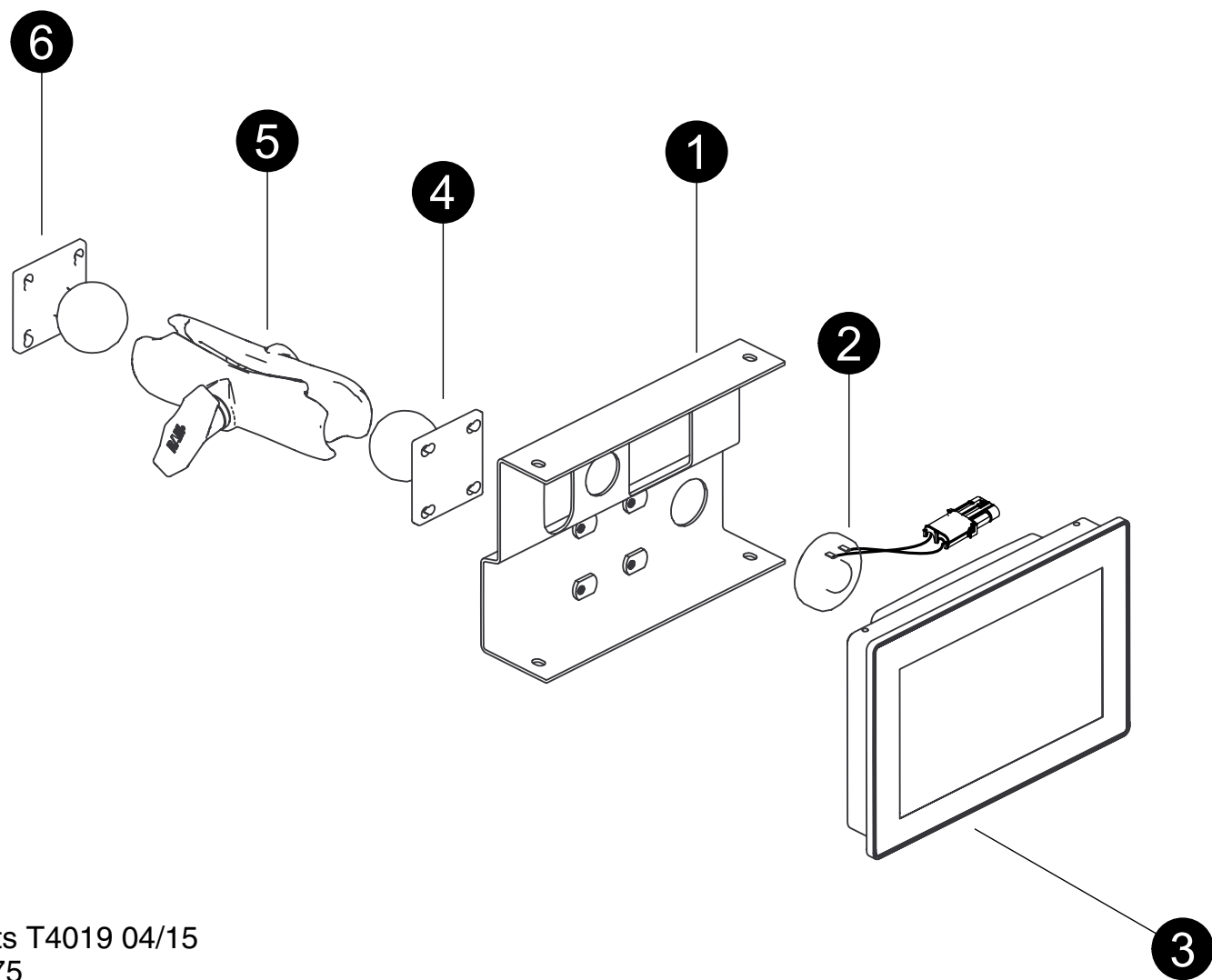


IQAN - Tank Sensors, Fan, Charge System

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	REF	1	XA2 PANEL ASSEMBLY.	ES-3
2	55264-ES	1	SWITCH, LIMIT - GULLWING (MAGNETIC)	
3	54525-ES	1	HARNESS, Hydraulic Tank Sensors	
4	54526-ES	1	HARNESS, Charge System and Fans	
5	55192-ES	1	HARNESS, Parking Brake, Motor Shift, and Disc Saw	
6	REF	1	 HYDRAULIC TANK ASSEMBLY.	UP-2
7	REF	1	 HYDRAULIC TANK ASSEMBLY - Pressure Switches	UP-2
8	REF	1	 HYDRAULIC TANK ASSEMBLY - Level Switches	UP-2
9	REF	1	 HYDRAULIC TANK ASSEMBLY - Tempature Sender	UP-2
10	REF.	1	 PARKING BRAKE/MOTOR SHIFT VALVE ASSEMBLY.	WD
11	REF.	1	 TRACK DRIVE CHARGE VALVE ASSEMBLY.	WD
12	REF.	1	 DISC SAW STOP VALVE ASSEMBLY	HH
13	REF	1	 SWING MOTOR BRAKE VALVE	LH//HH
14	REF	1	 FAN MOTOR CONTROL	UP-3
15	24532-ES	1	TRANSDUCER, PRESSURE	



See referenced page for component or assembly breakdown.



Parts T4019 04/15
18.75

IQAN - MD4 panel

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	46800-ES	1	ENCLOSURE, MD4	
2	55318-ES	1	MODULE, MD4 - SCREEN	
-	53112-ES	1	Software, Dealer MD4 (IQAN Active Studio)	
3	53025-ES	1	SIREN, WARNING MD4 Panel	
4	55452-ES	1	MOUNT, RAM - BASE - C SERIES	
5	55451-ES	1	MOUNT, RAM - DOUBLE SOCKET ARM - C SER.	
6	55452-ES	1	MOUNT, RAM - BASE - C SERIES	



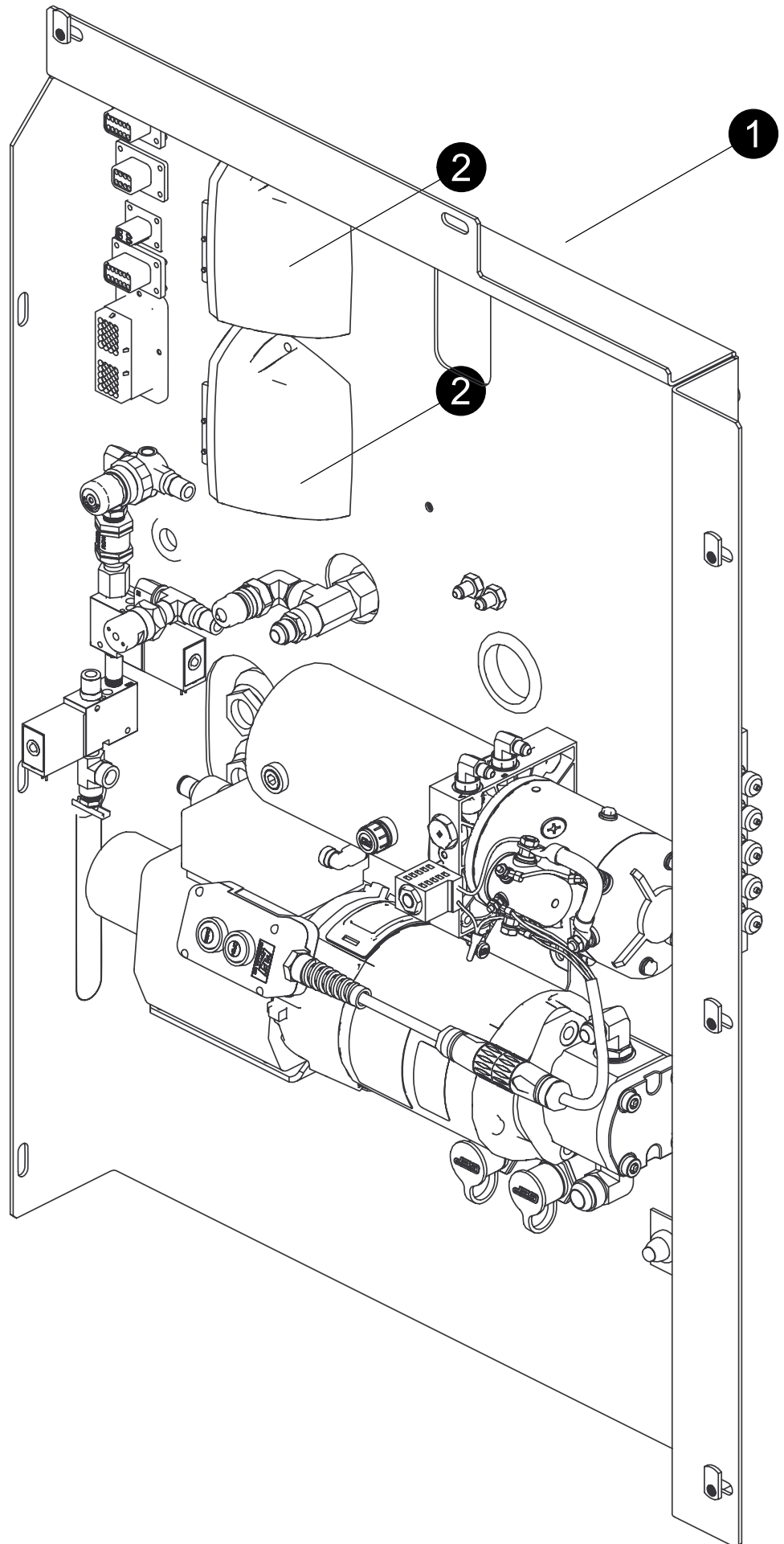
See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Included in repair kit



Parts T4020 04/15

18.75

IQAN - XA2 Panel

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	NSS	1	☐	PANEL, XA2 MD4 SYSTEM	
2	53095-ES	2		MODULE, XA2 - IQAN	



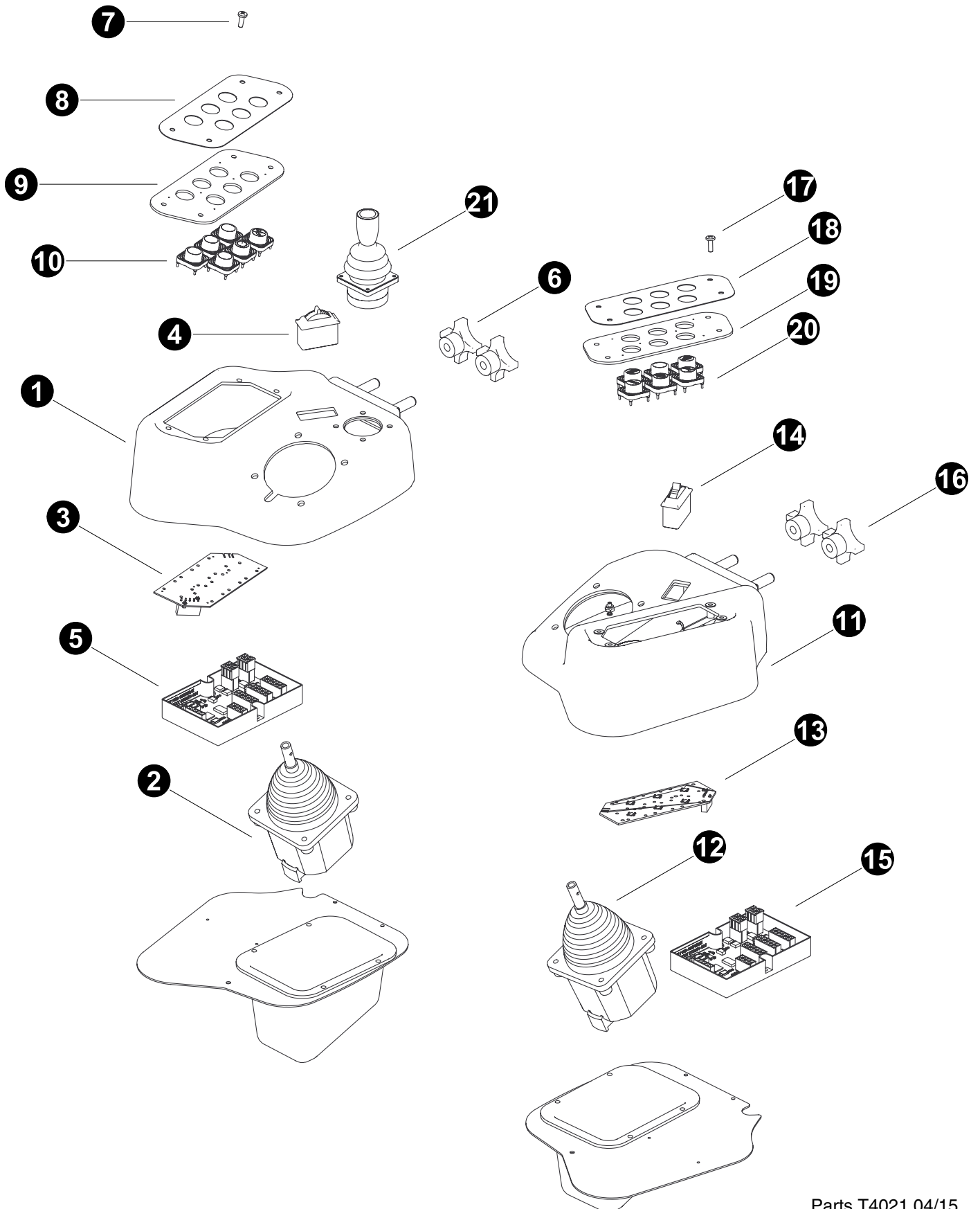
See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Included in repair kit



Parts T4021 04/15
18.75

IQAN - LEFT AND RIGHT CONTROL PODS

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	55422-ES	1	POD, JOYSTICK - RH (C-SERIES TRACK)	
2	54126-ES	1	JOYSTICK, MDL (P&G) CAN RIGHT	
3	55666-ES	1	Panel, 6-Switch RIGHT Side	
4	55703-ES	1	THUMBWHEEL - Travel Speed	
5	55707-ES	1	BOARD, CIRCUIT - POD RH C-SERIES	
6	-ES	2	KNOB, (DK-57)	
7	-ES	1	SCREW, 8-32 1/2"	
8	-ES	1	COVER, SWITCHES (M13355-227)	
9	-ES	1	SPACER, SWITCHES	
10	-ES	1	BUTTON, BLANK (M13361)	
-	-ES	1	BUTTON, DISC SAW (M13361-009)	
-	-ES	1	BUTTON, MOTOR SHIFT (M13361-010)	
11	55417-ES	1	POD, JOYSTICK - LH (C-SERIES WHEEL/TRACK)	
12	54125-ES	1	JOYSTICK, MDL (P&G) CAN LEFT	
13	55667-ES	1	Panel, 6-Switch LEFT Side	
14	55703-ES	1	THUMBWHEEL - Engine Speed	
15	55708-ES	1	BOARD, CIRCUIT - POD LH C-SERIES	
16	-ES	2	KNOB, (DK-57)	
17	-ES	1	SCREW, 8-32 1/2"	
18	-ES	1	COVER, SWITCHES (M13355-227)	
19	-ES	1	SPACER, SWITCHES	
20	-ES	1	BUTTON, BLANK (M13361)	
-	-ES	1	BUTTON, ARMING (M13361-004)	
-	-ES	1	BUTTON, CHARGE HEATER (M13361-005)	
-	-ES	1	BUTTON, PARKING BRAKE (M13361-003)	
-	-ES	1	BUTTON, HORN (M13361-006)	
-	-ES	1	BUTTON, AUTO THROTTLE (M13361-007)	
21	57423-ES	1	JOYSTICK, STEER-BLADE C Model	



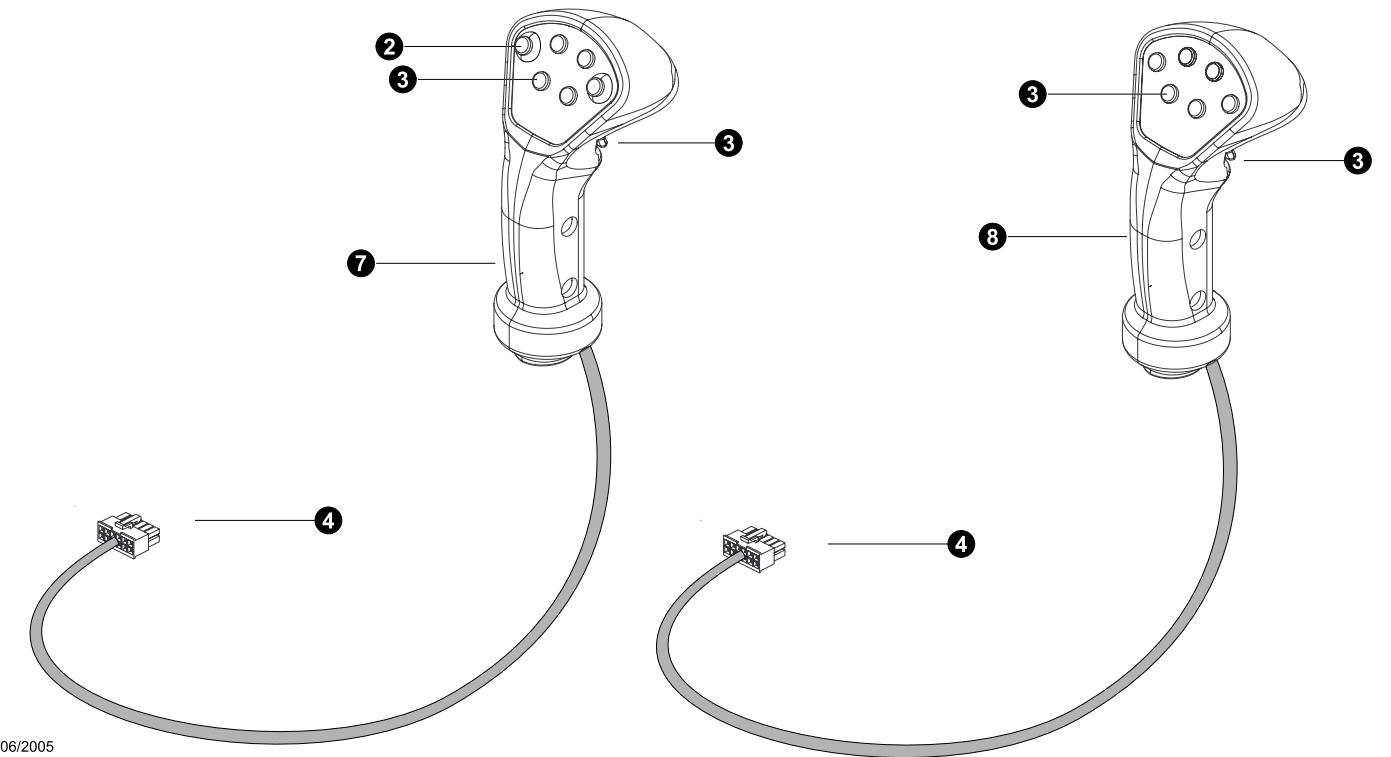
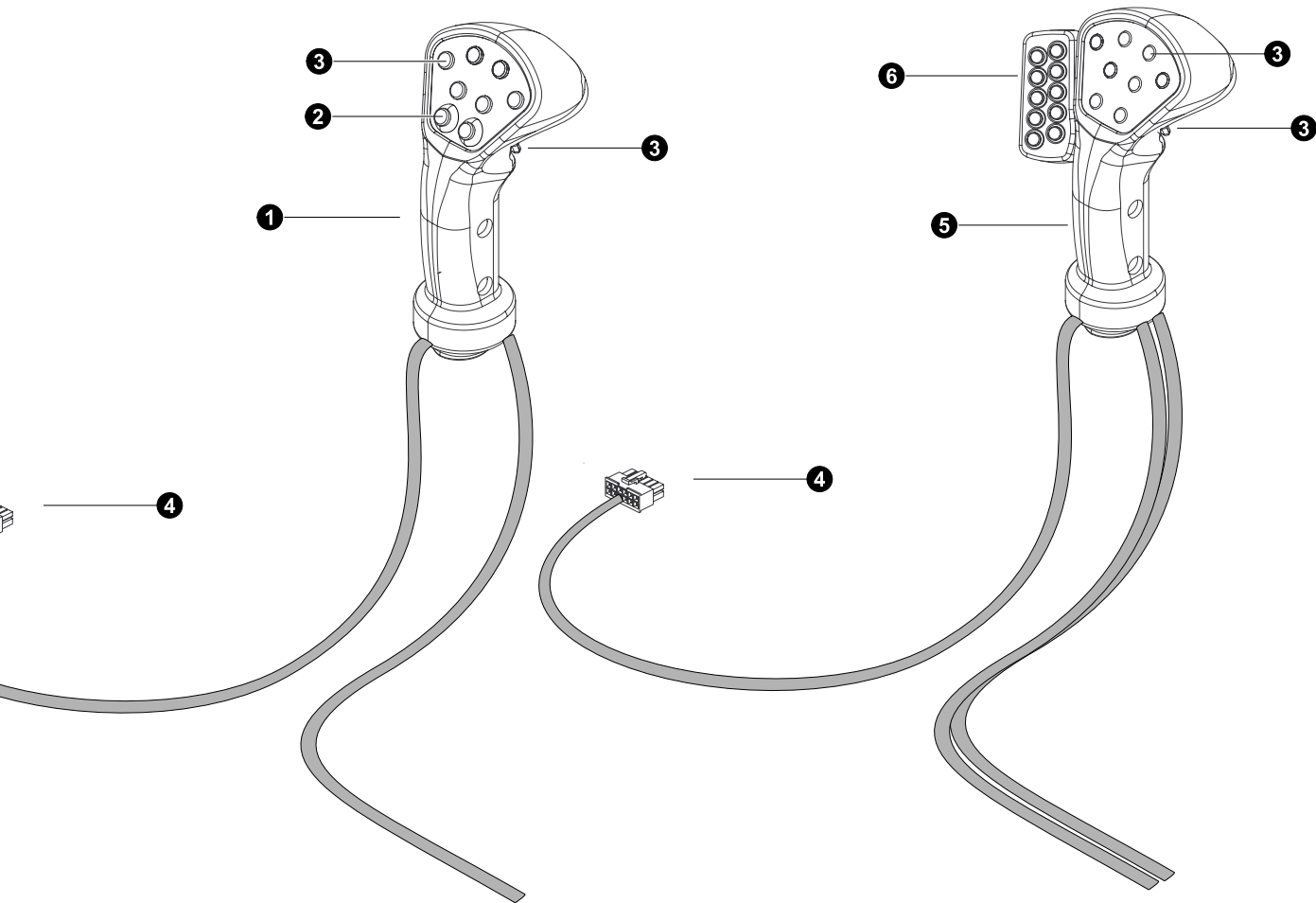
See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Included in repair kit



HANDCONTROL BREAKDOWN

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	51567-ES	1	HAND CONTROL, SURE GRIP - LH (LOGMAX)	
2	51947-ES	2	SWITCH, PUSH BUTTON REPAIR KIT (PROPORTIONAL)	
-	52094-ES	2	KIT, REPAIR - PROPORTIONAL BUTTON COVER	
3	20961-ES	8	SWITCH, PUSH BUTTON (DIGITAL)	
4	-ES	1	CONNECTOR, PLUG - 12 PIN MOLEX (039012120)	
5	51566-ES	1	HAND CONTROL, SURE GRIP - RH W/KEYPAD (LOGMAX)	
6	52095-ES	10	SWITCH, PUSH BUTTON (SURE GRIP KEYPAD)	
7	55656-ES	1	HAND CONTROL, UPPER - SURE GRIP - Digital and Proportional	
8	55655-ES	1	HAND CONTROL, UPPER - SURE GRIP - Digital Buttons Only	



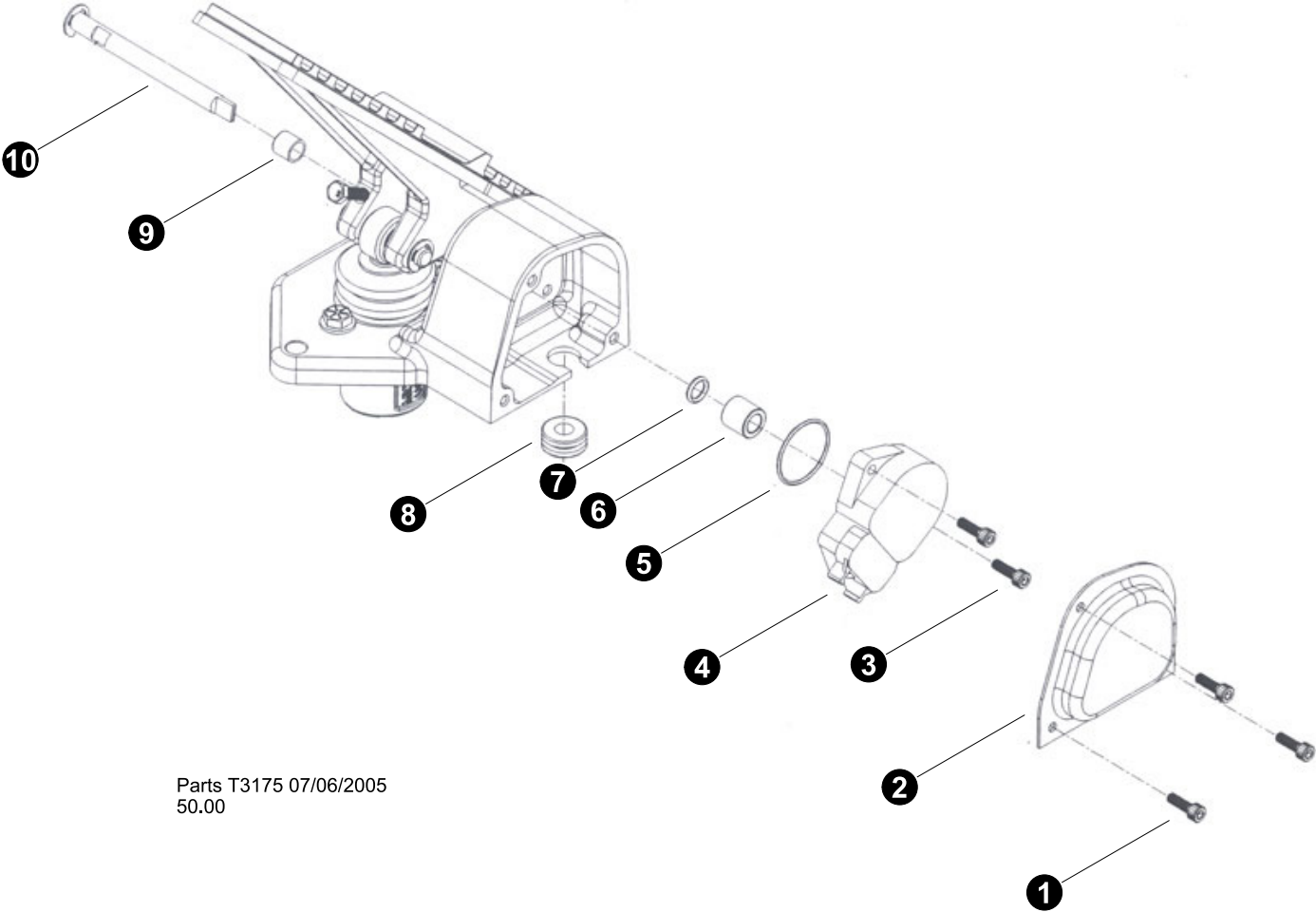
See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Included in repair kit



WHEEL DRIVE BRAKE PEDAL

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	51626-ES	1	☐	PEDAL, BRAKE CONTROL - ELECTRONIC TF830	
1	-	3		SCREW	
2	-	1		COVER	
3	-	2	⌘	SCREW	
4	-	1	⌘	POSITION SENSOR	
5	-	1	⌘	O-RING	
6	-	1	⌘	BEARING	
7	-	1	⌘	ORING	
8	-	1	⌘	GROMMET	
9	-	1		BEARING	
10	-	1		PIN	
-	52096-ES	1	⌘	KIT, REPAIR - MICO BRAKE PEDAL	



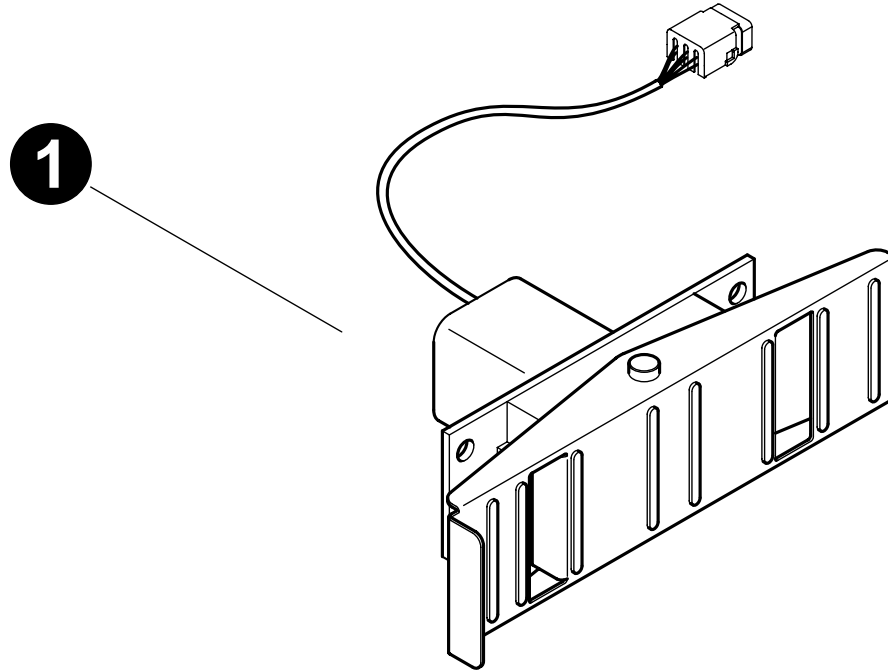
See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Included in repair kit



Parts T3176 07/06/2005
50.00

WHEEL DRIVE CONTROL PEDALS

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	51491-ES	1	PEDAL, FOOT CONTROL - DUAL AXIS , OTTO CONTROLS (SEALED)	

Disassembly of these components is not recommended.



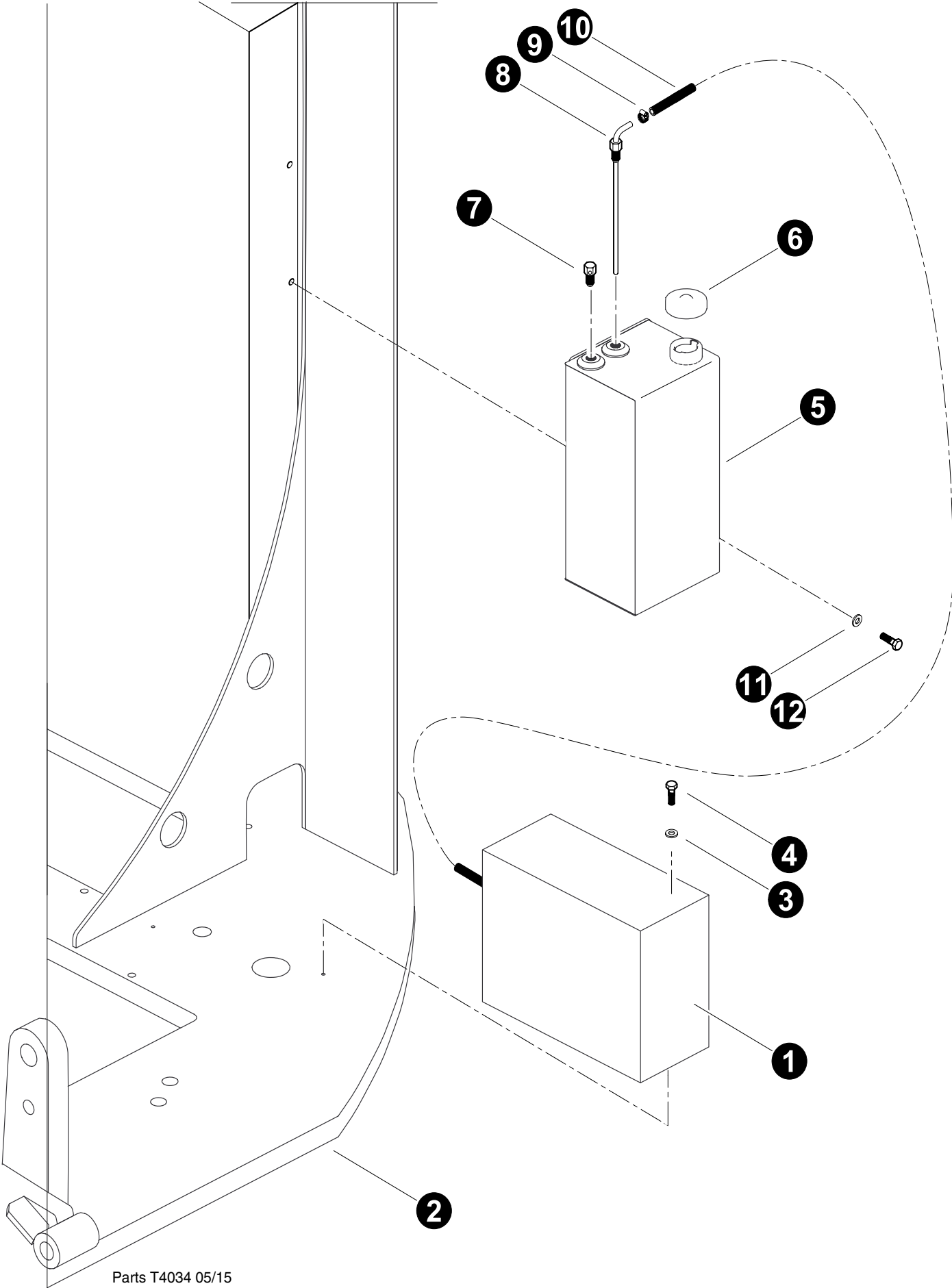
See referenced page for component or assembly breakdown.

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Section OH-1

Optional Heaters- Espar Heater Installation



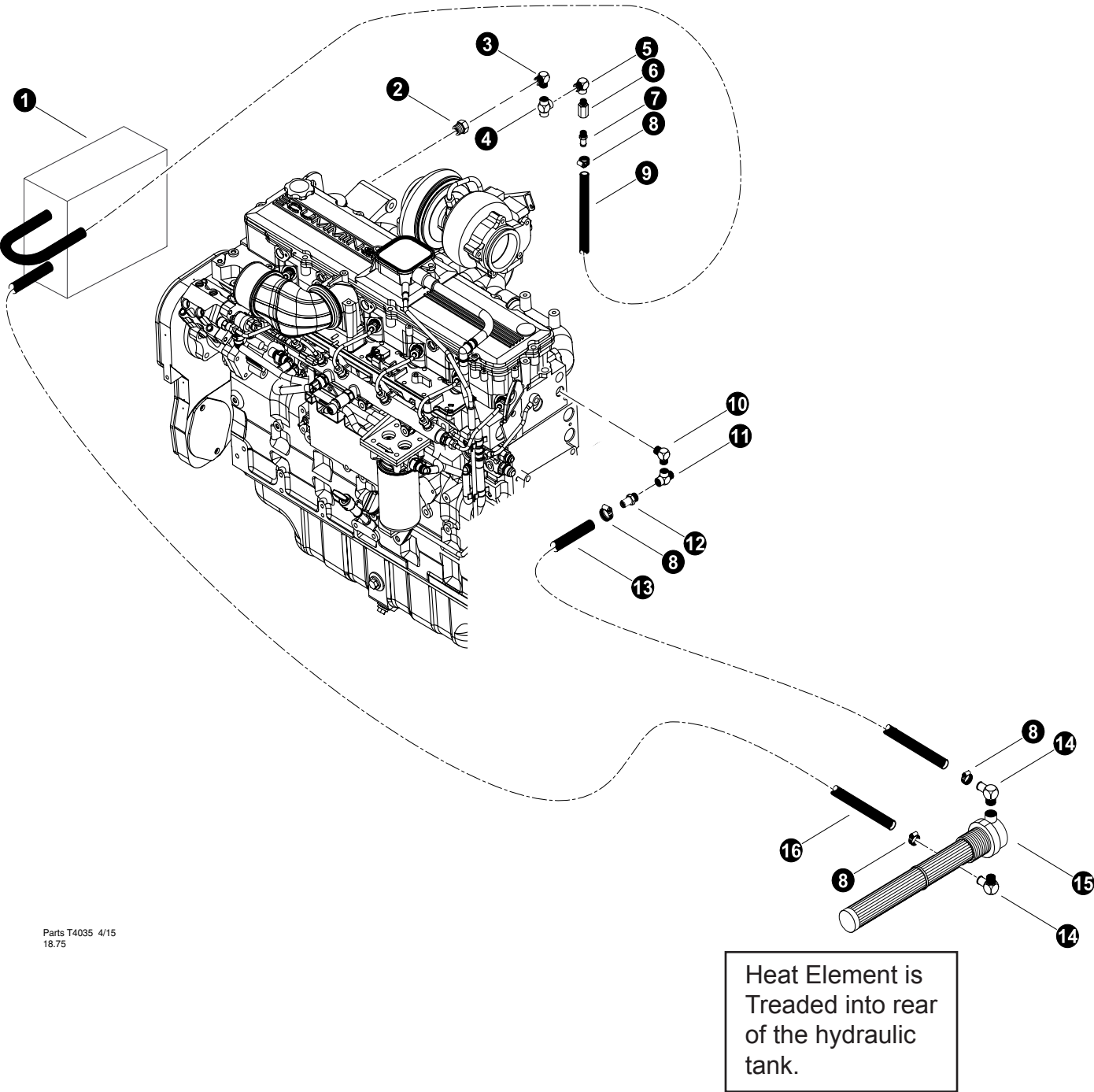
Parts T4034 05/15
25.00

Espar Heater (Heater Installation)

REF	PART #	QTY		DESCRIPTION
1	REF	1		ESPAR PRE-HEATER SYSTEM OH-2
2	REF	1		UPPER TURNTABLE UP-1
3	10757-OH	2		WASHER, SAE FLAT - .25"
4	15604-OH	2		BOLT - .25" X .75"
5	46673-OH	1		TANK, ESPAR FUEL - C SERIES
6	52965-OH	1		CAP, ESPAR FUEL TANK
7	22906-OH	1		BEATHER, fuel vent
8	-OH	1		SUCTION TUBE, ESPAR FUEL TANK
9	10759-OH	1		CLAMP, HOSE - WORM STYLE - .875"
10	-OH			HOSE, ESPAR

 Kit or Assembly - includes all items indented underneath.

 See referenced page for component or assembly breakdown.



Espar Heater (Heater Installation) Cummins QSC 8.3L

REF	PART #	QTY		DESCRIPTION
1	REF	1		ESPAR PRE-HEATER SYSTEM OH-2
2	15513-OH	1		BUSHING, REDUCER - 5406-12-8
3	52785-OH	1		ELBOW, MALE PIPE - 3/4 X 1/2 CR-S
4	16125-OH	1		TEE, BLACK - .5"
5	52786-OH	2		ELBOW, 1/2" X 3/8" CD-S
6	15652-OH	2		VALVE, CHECK
7	51502-OH	1		NIPPLE, KING - .38NPT X .63 HOSE
8	16256-OH	8		CLAMP, hose - worm style - 7/8"
9	52035-OH	33"		HOSE, HEATER - (BULK ROLL) .625" X 250'
10	52785-OH	1		ELBOW, MALE PIPE - 3/4 X 1/2 CR-S
11	51879-OH	1		TEE, RUN - .5" (1/2 MR0-S)
12	51774-OH	1		NIPPLE, KING - 1/2" NPT X 5/8" HOSE
13	16717-OH	33"		HOSE, HEATER - (BULK ROLL) .625" X 250' - 61"
14	51974-OH	2		ELBOW, 90 - 4501-10-12
15	51614-OH	1		HEATER, element - Artic Fox
16	16717-OH	33"		HOSE, HEATER - (BULK ROLL) .625" X 250' - 94"



Bulk material - order length required in feet or meters.



Kit or Assembly - includes all items indented underneath.

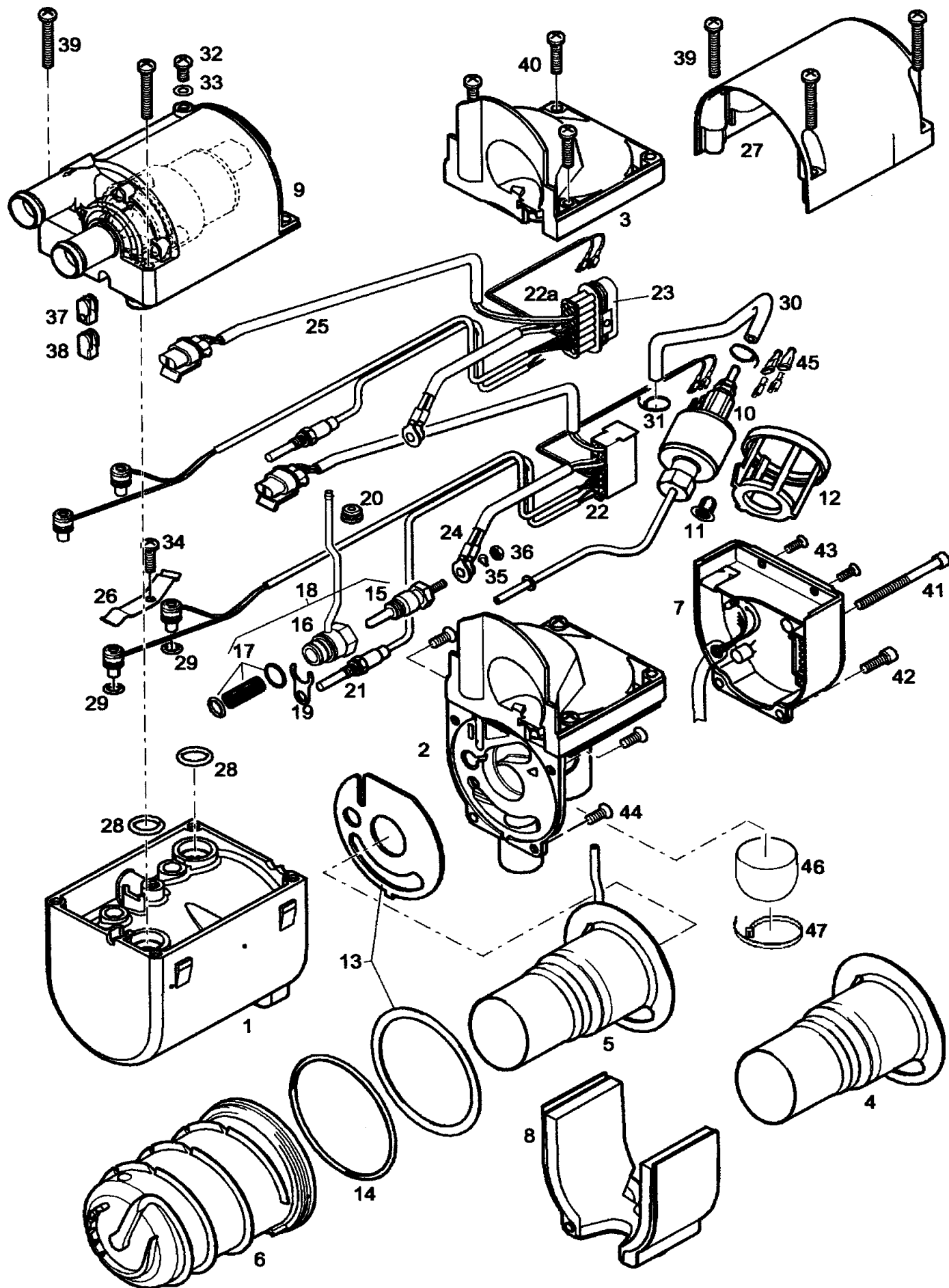


See referenced page for component or assembly breakdown.

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Section OH-2

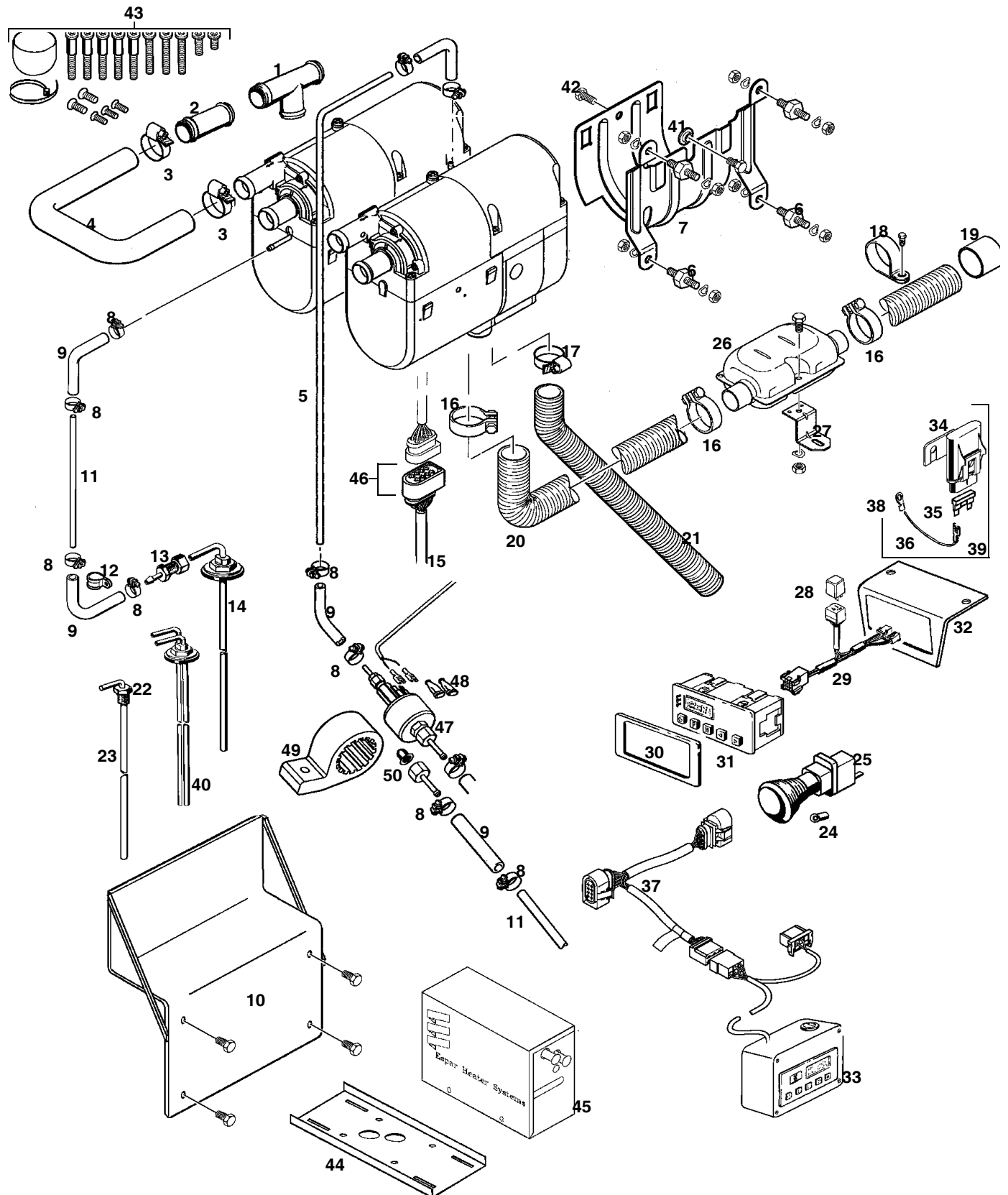
Optional Heaters- Espar Parts Breakdown



Espar hydronic - Pre Heater (heater breakdown)

REF	PART #	QTY	DESCRIPTION
-	51578-OH	1	☐ KIT, PREHEATER - ESPAR (24V)
1		1	OUTER CASING (251922010101)
2		1	CUMBUSTION AIR BLOWER with COVER (252146991500) .
3		1	COVER (252137010002)
4		1	BURNER
5		1	BURNER (252146100000)
6		1	HEAT EXCHANGER (251922060001)
7		1	CONTROL UNIT (225202001003)
8		1	COVER
9		1	WATER PUMP (252118250000)
10		1	FUEL METERING PUMP (251942450000)
11		1	STRAINER
12		1	PUMP HOLDER (251864990021)
13		1	SEAL & GASKET (251864990021)
14		1	O-RING (32075104)
15		1	GLOW PIN (252107011000)
16		1	GLOW PIN CONNECTION
17		1	LINING AND 2 O-RINGS
18		1	PLUG CONNECTION COMPLETE (252147011300)
19		1	HOLDER (201752010004)
20		1	SLEEVE (201752010002)
21		1	FLAME SENSOR (251920350000)
22		1	OVERHEAT & TEMP SENSORS \ CABLE & CONNECTORS (252147012000)
23		1	CONTROL UNIT PLUG - COMPLETE (221000301010)
24		1	CABLE SECTION, GLOW PLUG (251920011800)
25		1	CABLE, WATER PUMP (201753011800)
26		1	SPRING LEAF (251922010005)
27		1	COVER FUEL METERING PUMP (251917010003)
28		1	ORING (32075119)
29		1	ORING, SENSOR (32075111)
30		1	FUEL HOSE (251917010011)
31		1	HOSE CLIP (20931071)
32		1	BLEED SCREW (251917250012)
33		1	BLEED SCREW WASHER
34		1	TAPITE SCREW (10910104)
35		1	SPRING WASHER (17122112)
36		1	NUT (11010024)
37		1	SLEEVE (251917010005)
38		1	GROMMET
39		1	BOLT M5X35 (10910027)
40		1	BOLT M5X25 (10910102)
41		1	BOLT (10010300)
42		1	BOLT M5X16 (10910101)
43		1	SCREW M4X10 (10910100)
44		1	SCREW (10210400)
45		1	BOOT (32031120)
46		1	DUST COVER (CA000073)

☐ Kit or Assembly - includes all items indented underneath.



Espar hydronic - Pre Heater (heater breakdown)

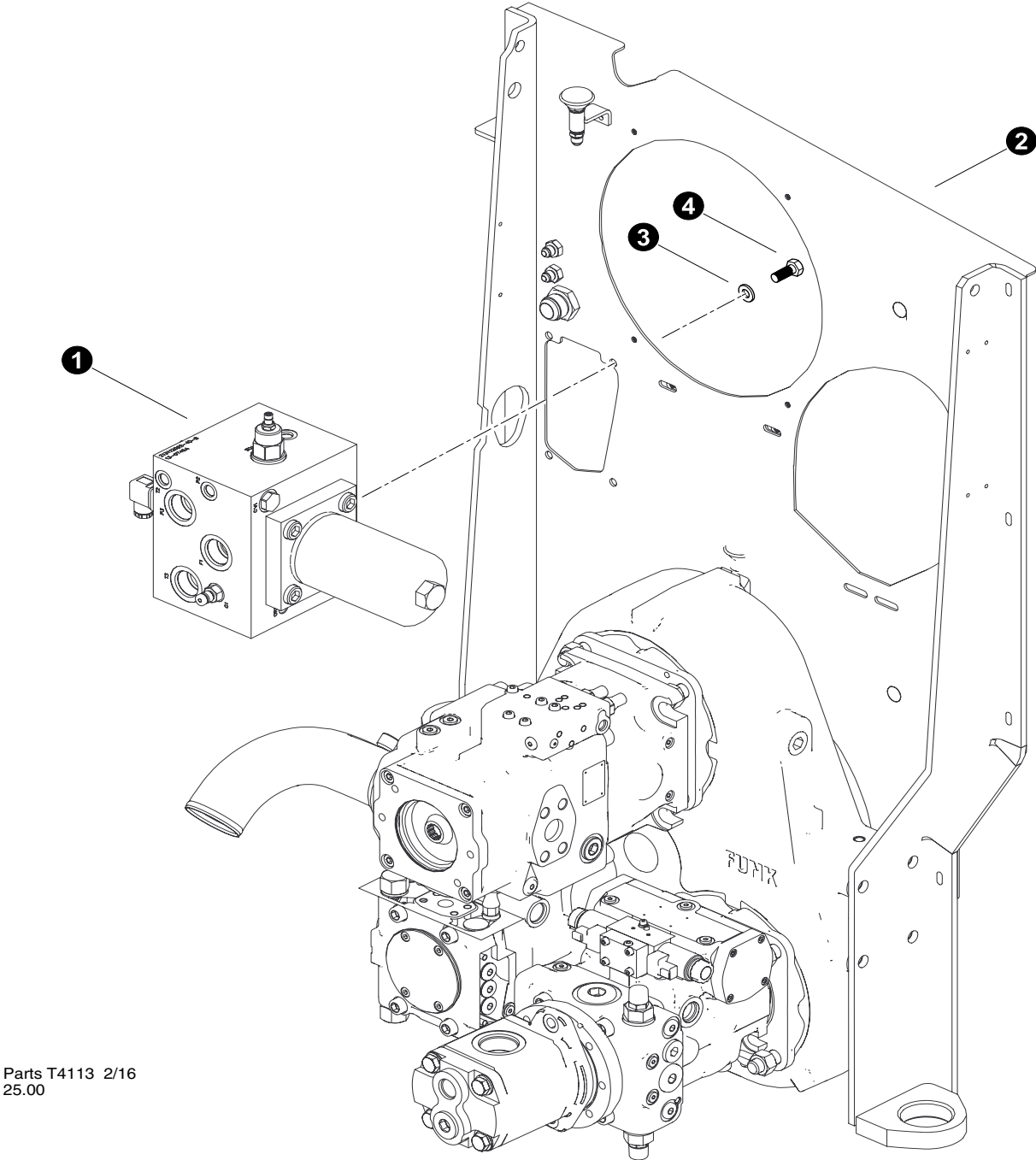
REF	PART #	QTY	DESCRIPTION
-	51578-OH	1	☐ KIT, PREHEATER - ESPAR (24V
1		1	T-PIECE 20MM (201673801100)
2		1	CONNECTING PIPE (201534880001)
3		1	CLAMP 20MM-32MM (102065020032)
4		1	HOSE (251917800001)
5		1	1.5M PLASTIC FUEL LINE (09031118)
6		1	MOUNT (201185000001)
7		1	HEATER BRACKET (251864800001)
8		1	HOSE CLAMP 9 MM (102063009098)
9		1	HOSE, FUEL (36075300)
10		1	BRACKET (CA010085)
11		1	FUEL LINE 2MM (09031117)
12		1	CLAMP, PIPE 10MM (15200147)
13		1	FUEL PIPE REDUCER (CA012092)
14		1	FUEL PICK UP (CA012056)
15		1	MAIN HEATER HARNESS (CA160502-001)
16		1	EXHAUST CLAMP 27-30MM (15261102)
17		1	INTAKE HOSE CLAMP102064016025)
18		1	C CLAMP 28MM (15210051)
19		1	EXHAUST SLEEVE (251729800600)
20		1	EXHAUST HOSE (36061299)
21		1	INTAKE HOSE (36000099)
22		1	COMPRESSION FITTING
23		1	STRAIT PICKUP TUBE
24		1	BULB 24V (20700006)
25		1	SWITCH 24V (CA100004)
26		1	MUFFLER (251864810100)
27		1	CLAMP (201533880007)
28		1	RELAY 24V (20300092)
29		1	HARNESS ADAPTER, TIMER (CA160008001)
30		1	BEZEL, TIMER (251482700700)
31		1	TIMER, 7 DAY (221000303600) KIT W/HARNESS (CA100136)
32		1	BRACKET, TIMER (CA010061)
33		1	FAULT CODE DEVICE (CA105020)
34		1	MAIN FUSE HOLDER (CA107001)
35		1	FUSE (CA107005)
36		1	WIRE, RED (CA161908)
37		1	HARNESS, FAULT CODE (CA105028)
38		1	TERMINAL 3/8" (CA190014)
39		1	FUSE LINK HARNESS (CA165108)
40		1	DOUBLE PICKUP (CA012057001)
41		1	SPACER (251864800002)
42		1	SCREW (CA300103)
43		1	REPLACEMENT HARDWARE KIT (CA100190)
44		1	BRACKET, FRAME MOUNT (CA010028)
45		1	BOX, BASE (CA010101) LID (CA010102)
46		1	PLUG CABLES - COMPLETE (221000301021)
47		1	FUEL PUMP 24V (221000500300)
48		1	BOOT SLEEVE (32031120)
49		1	FUEL PUMP HOLDER (221000500300)
50		1	FILTER, FUEL (224502000100)

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Section DH-1

Drive Hydraulics - Charge Pressure Circuit



Parts T4113 2/16
25.00

CHARGE FILTER MANIFOLD INSTALLATION

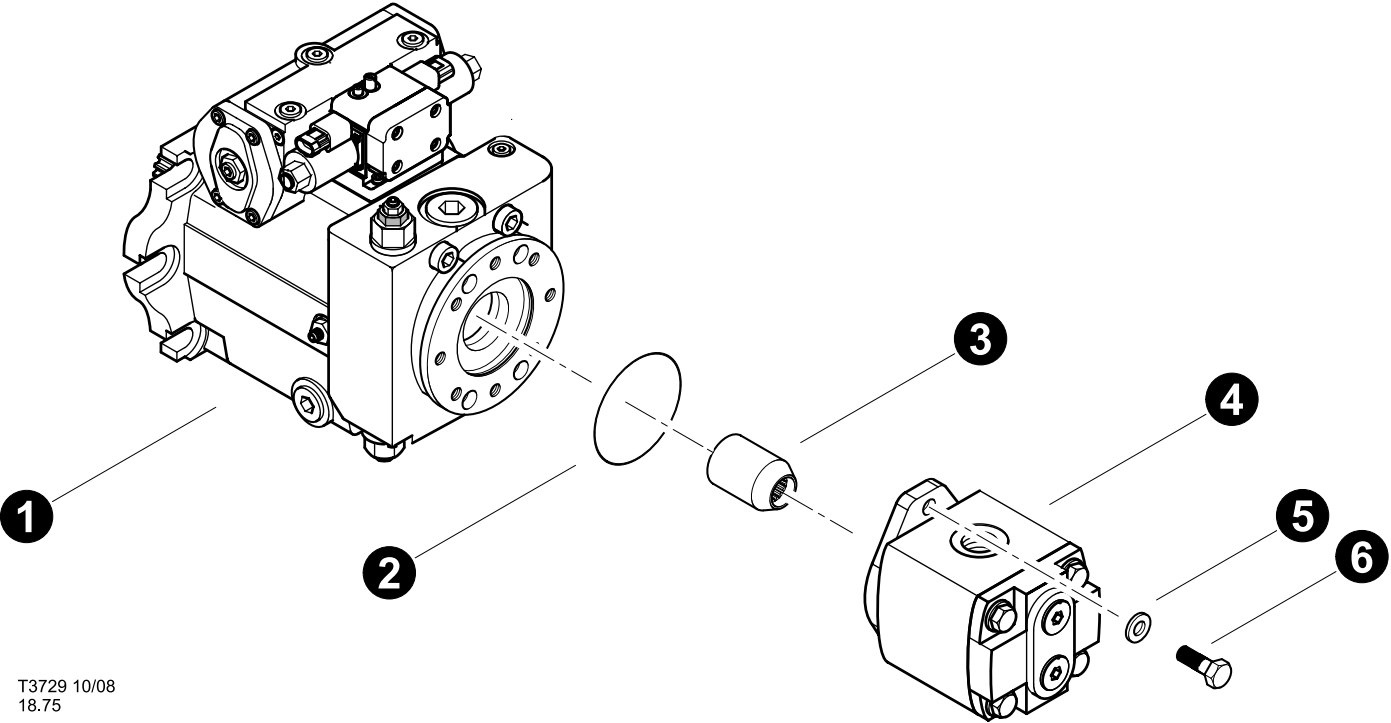
REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	REF	1	VALVE, FAN CONTROL.....	UP-3
2	REF	1	BARRIER, ENGINE	EE
3	15528-DH	4	WASHER, .375"	
4	11707-DH	4	BOLT, .375" X 1"	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



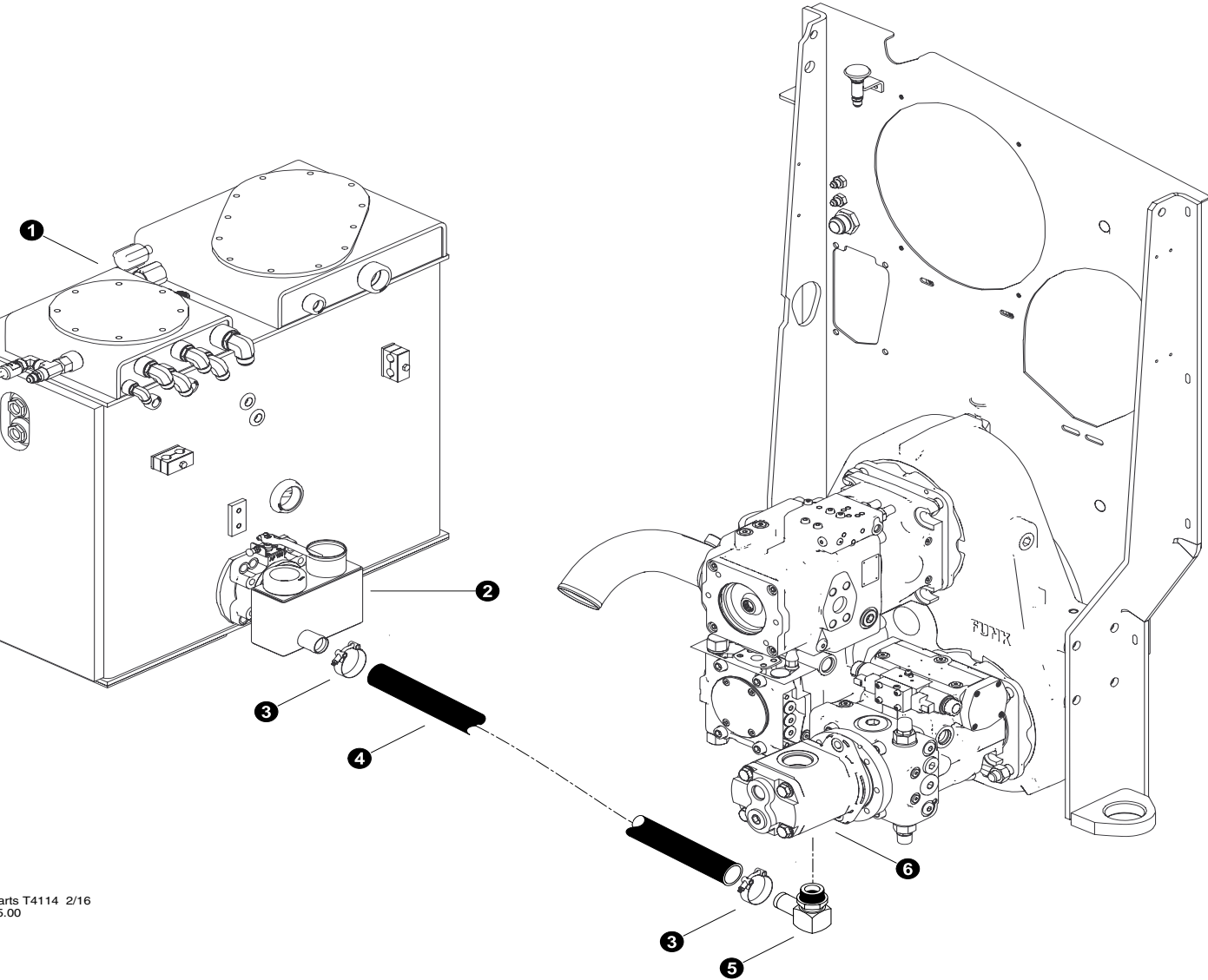
T3729 10/08
18.75

CHARGE PUMP INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		Wheel DRIVE PUMP	DH-3
2	21624-DH	1		O-RING, CHARGE PUMP PILOT (AA4VG90)	
3	R909650371-DH	1		COUPLING, Charge Pump	
4	REF	1		CHARGE PUMP ASSEMBLY	DH-4
5	18735-DH	2		WASHER, FLAT - 12MM	
6	18415-DH	2		BOLT - 12MM-1.75P X 30MM	



See referenced page for component or assembly breakdown.



arts T4114 2/16
3.00

CHARGE PUMP INLET (SUCTION)

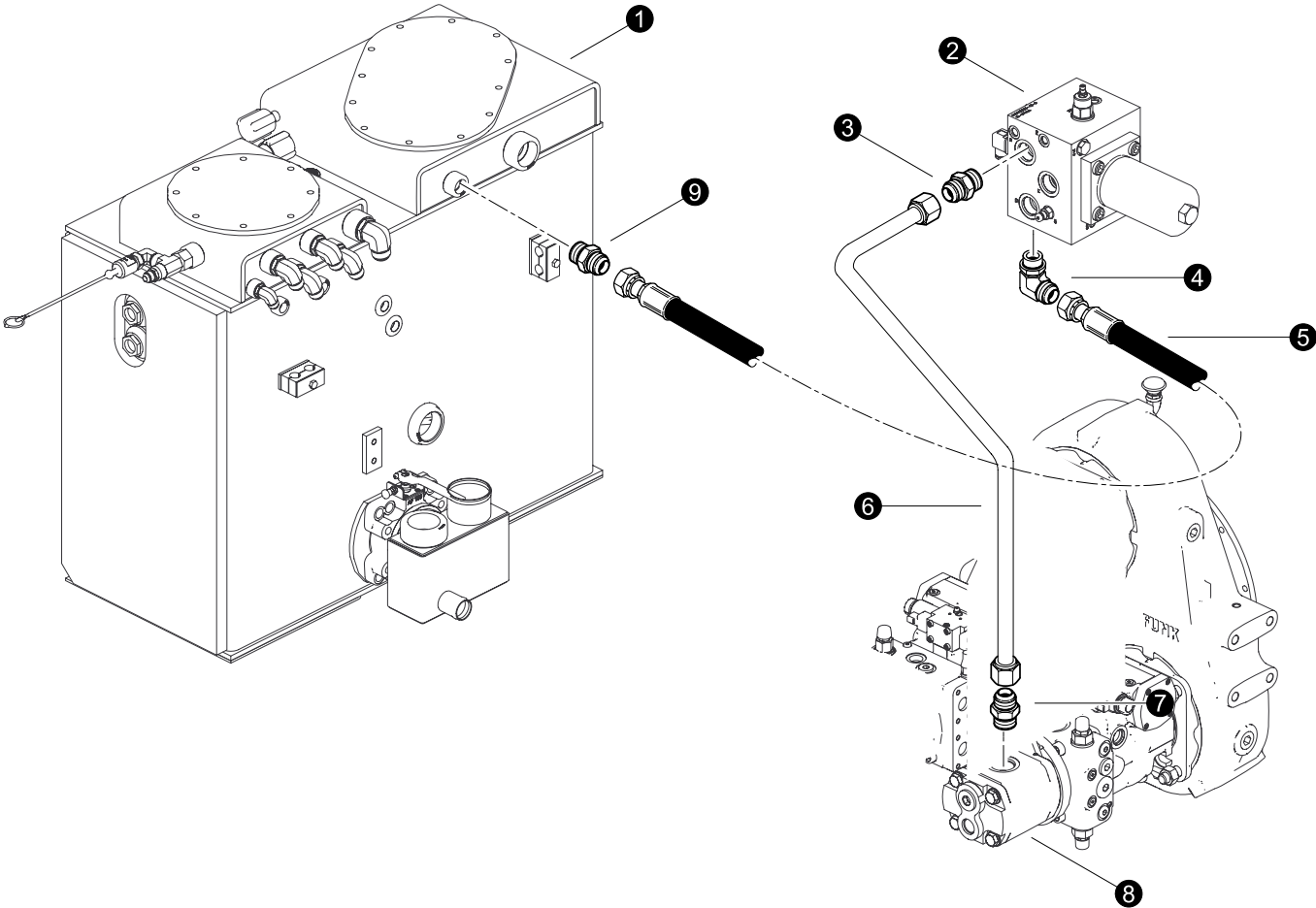
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		HYDRAULIC TANK ASSEMBLY.....	UP-2
2	REF	1		SUCTION ASSEMBLY	UP-2
3	15641-DH	2		CLAMP, strap band - 2"	
4	-DH	1		HOSE ASSEMBLY - 2017-24-0-0	
5	22726-DH	1		KING NIPPLE, 90 O-RING - 4601-24	
6	REF.	1		CHARGE PUMP.....	DH-4



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



CHARGE CIRCUIT (Pressure, Tank, and Regen)

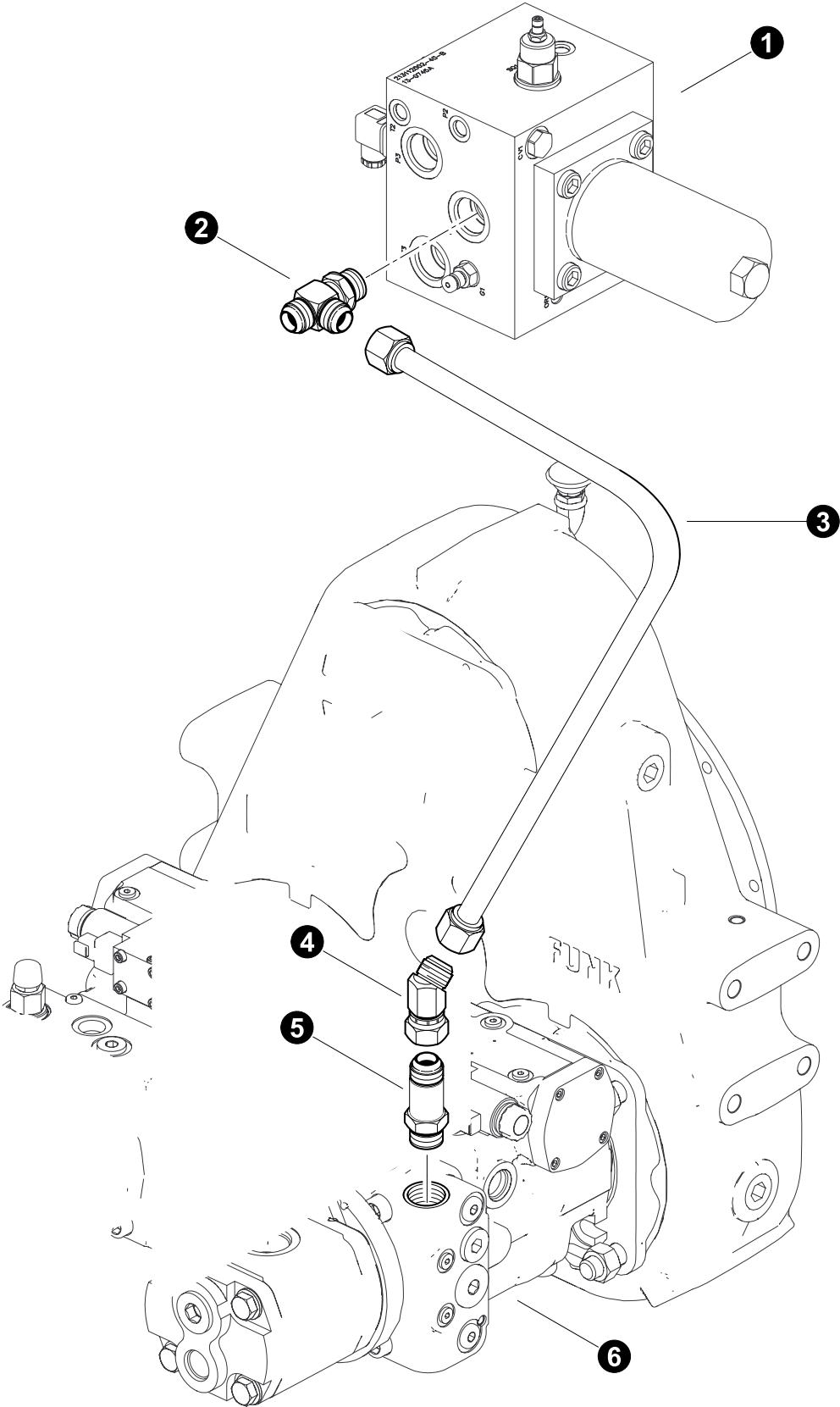
REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	REF	1	HYDRAULIC TANK ASSEMBLY.....	UP-2
2	REF	1	Wheel DRIVE CHARGE PUMP	DH-4
3	15497-DH	1	CONNECTOR, STR - 16 F5OX-S	
4	11306-DH	1	ELBOW, 90 12 C5OX-S	
5	-DH	1	HOSE ASSEMBLY - 2023 12 12JS 12JS (T3 port to Hyd Tank Return)	
6	55232-DH	1	TUBELINE, CHRg PUMP TO CHRg MAN P3	
7	15498-DH	1	CONNECTOR, STR - 6400-16-20	
8	REF.	1	 CHARGE PUMP.....	DH-4
9	11324-DH	1	CONNECTOR, STR - 6400-12	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

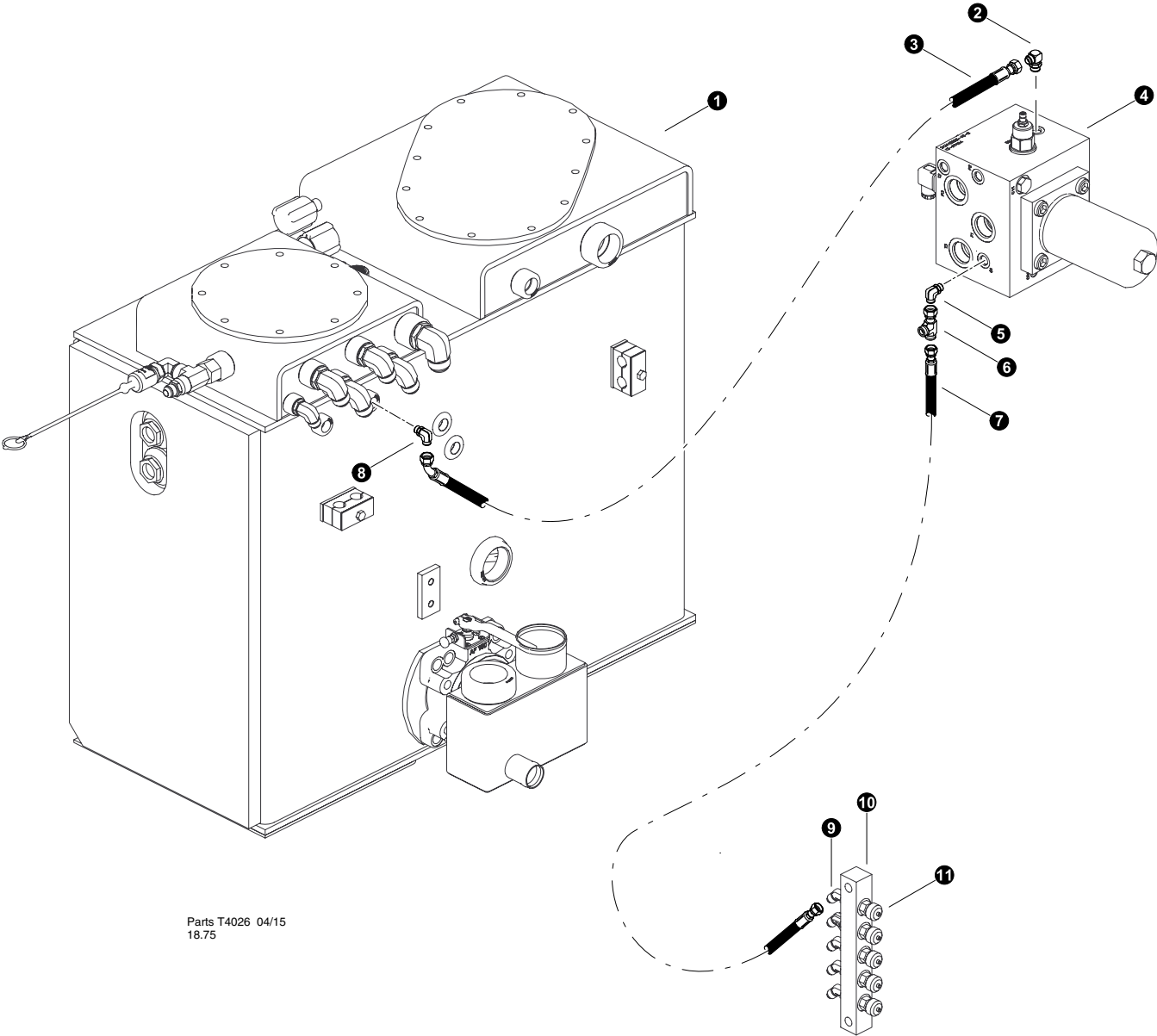


WHEEL DRIVE PUMP CHARGE PRESSURE INLET

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	REF	1	FAN CONTROL / CHARGE MANIFOLD	UP-3
2	55379-DH	1	FITTING, STRAIGHT - 16 R5OX-S	
3	55231-DH	1	TUBELING, CHRG VALVE F1 T/WHEEL FA C-SER	
4	15110-DH	1	ELBOW, 45 SWIVEL - 16 V6X-S	
5	53034-DH	1	CONNECTOR, STR - LONG 16 JIC X ORB	
6	REF.	1	 Wheel DRIVE PUMP	DH-4



See referenced page for component or assembly breakdown.



Parts T4026 04/15
18.75

CHARGE FILTER MANIFOLD DRAIN LINE

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	REF	1	HYDRAULIC TANK ASSEMBLY.....	UP-2
2	15480-DH	1	ELBOW, 90 - 6801-6	
3	-DH	1	HOSE ASSEMBLY - 2055 06 06JS 04J4	
4	REF	1	CHARGE MANIFOLD.....	UP-3
5	51889-DH	1	ELBOW, 90 - (4C50X-S)	
6	55677-DH	1	FITTING, 4 R6X-S	
7	-DH	1	HOSE ASSEMBLY - 7056 04 04JS 04JS	
8	53145-DH	1	FITTING, 6-8 C50X-S - JIC	
9	51884-DH	1	ELBOW, 45 - (4 V50X-S)	
10	22287-DH	1	MANIFOLD, PRESSURE CHECK - 5 PORT	
11	16037-DH	1	Gauge Tap 1/4" Sae	



See referenced page for component or assembly breakdown.



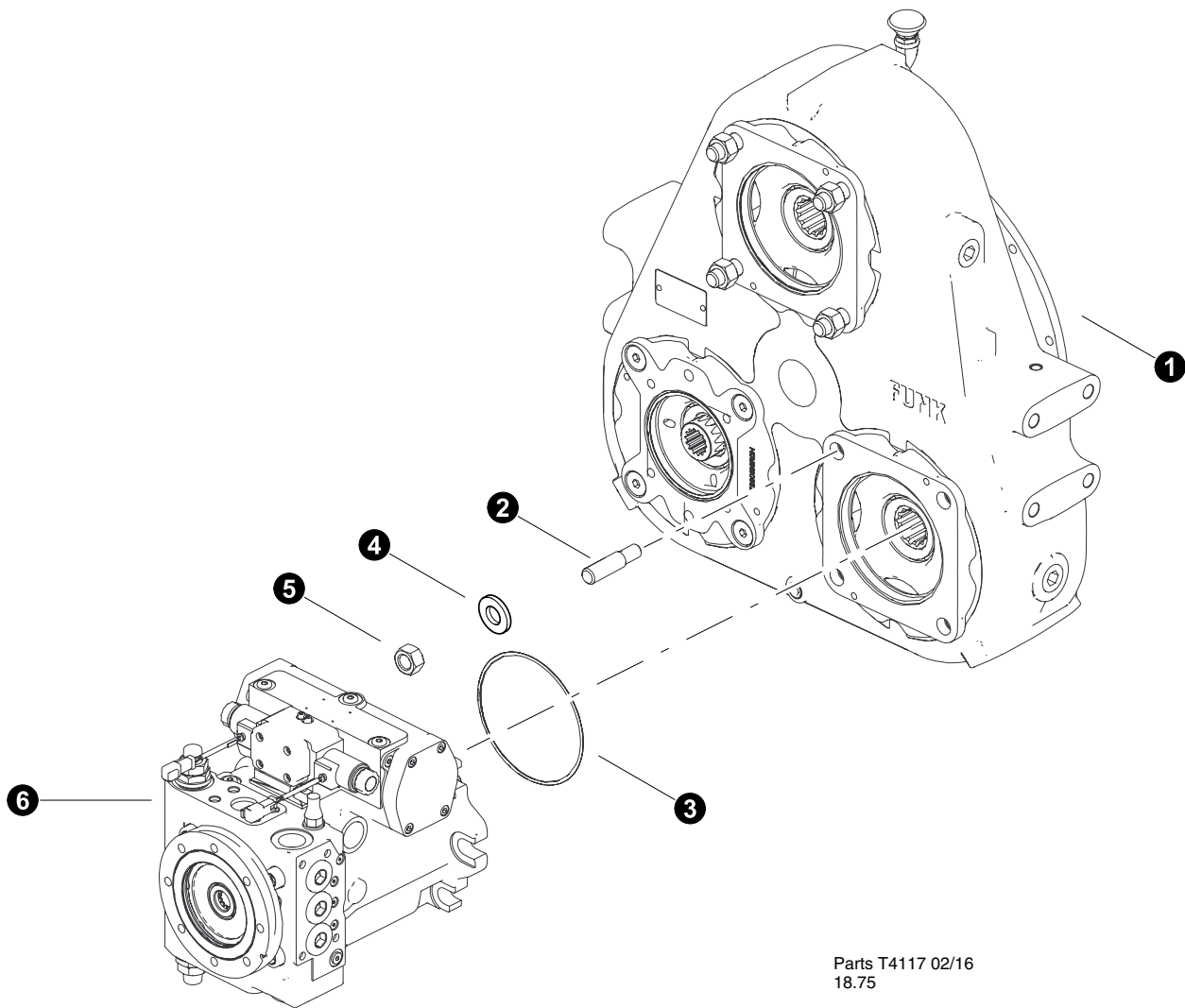
Kit or Assembly - includes all items indented underneath.

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Section DH-2

Drive Hydraulics - Wheel Drive Pump Circuit



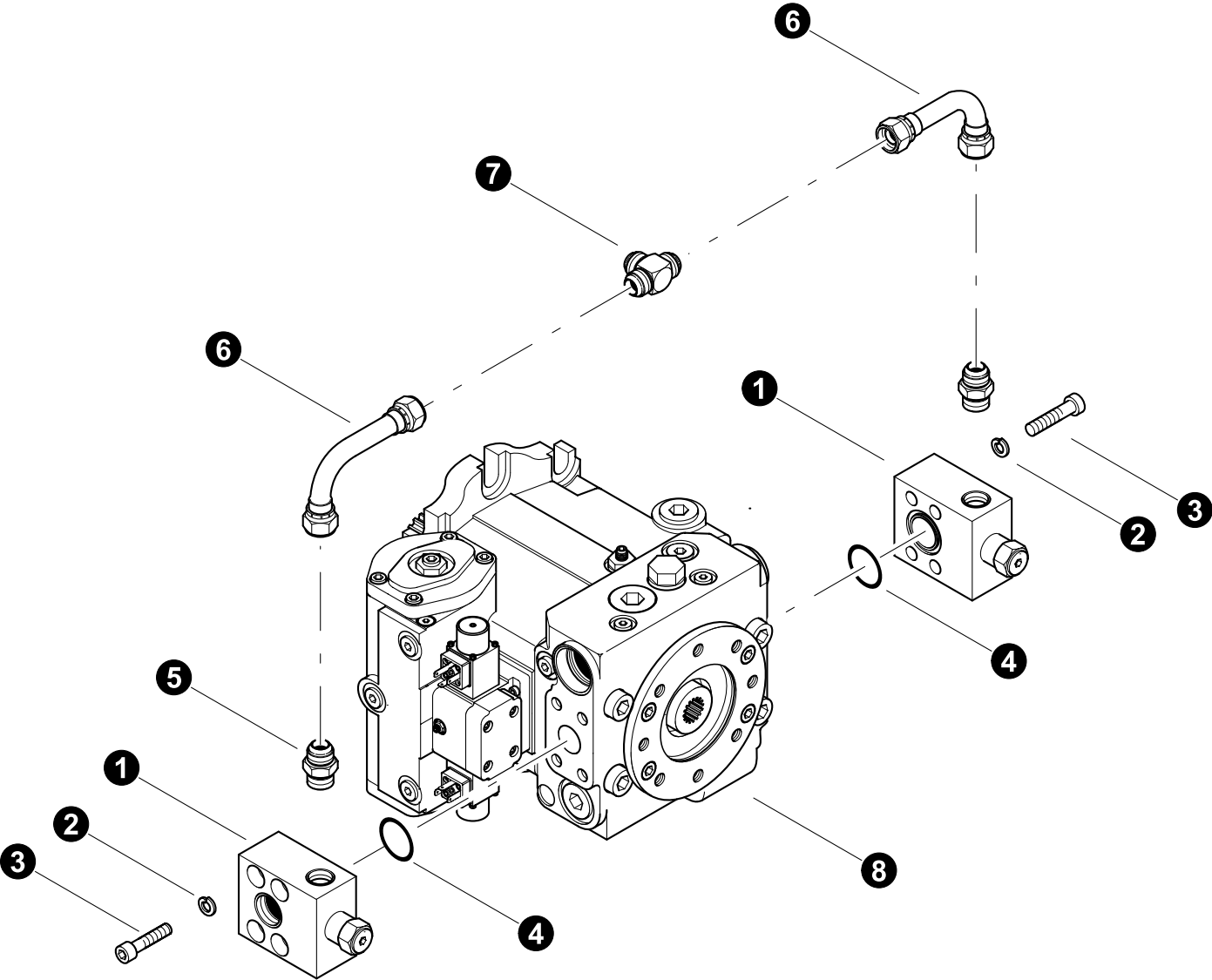
WHEEL DRIVE PUMP INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		TRANSMISSION double pump drive	EE-4
2	18293-EE	4		STUD, "D" Mount (See Note #1)	
3	15442-2-DH	1		O-RING, PUMP DRIVE PILOT - DRIVE	
4	15550-DH	4		WASHER, SAE flat - 3/4"	
5	10776-DH	4		NUT, hex - 3/4"	
6	REF.	1		WHEEL DRIVE PUMP	DH-3

 See referenced page for component or assembly breakdown.

Note #1:

Use Loctite 272 (blue) during installation.



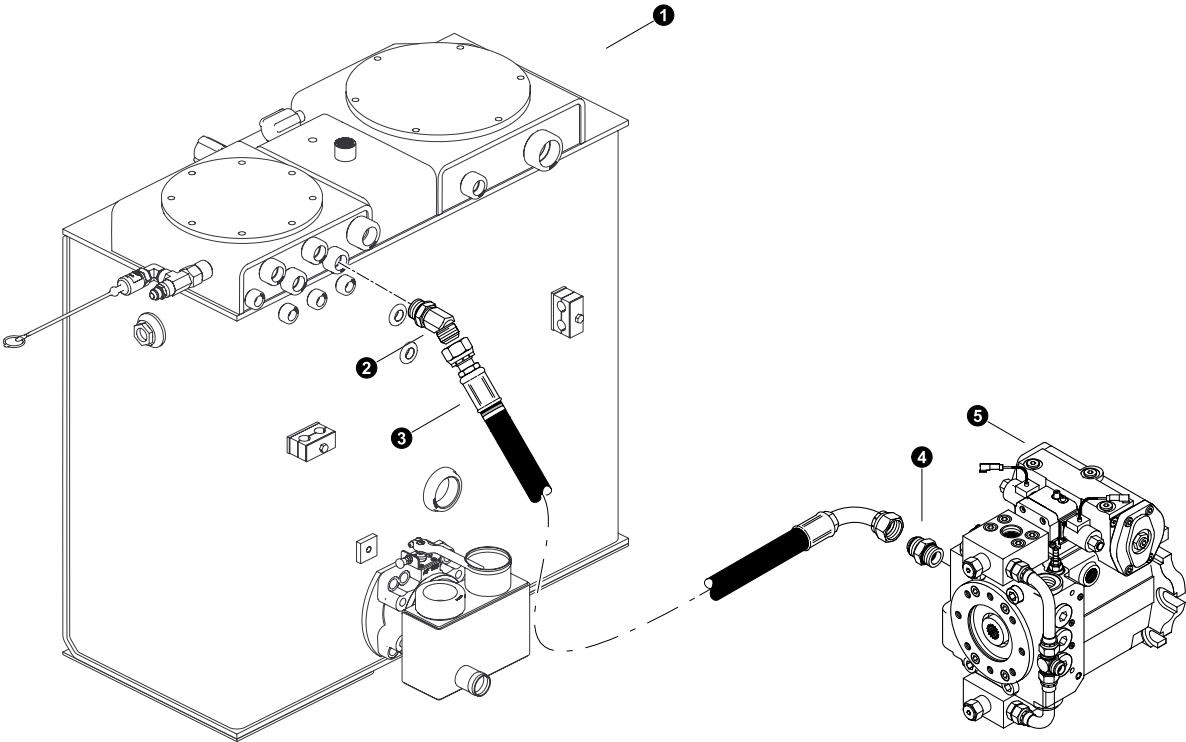
Parts T3192 07/14/2005
18.75

WHEEL DRIVE SYSTEM**Anti-Cavitation Block Installation**

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	51773-DH	2		MANIFOLD, KIT ANTI CAV- WHEEL DRIVE	
2	50075-DH	8		WASHER, LOCK - .5" HIGH COLLAR	
3	17141-DH	8		BOLT, ALLEN HEAD - .5" X 2.75"	
4	15378-DH	2		O-RING - 1.25" SF (CODE 61/62)	
5	11324-DH	2		CONNECTOR, STR - 6400-12	
6	52100-DH	2		TUBE, HYDRAULIC - FORMED 90 DRIVE PUMP	
7	52090-DH	1		TEE - 12WJJTX-S	
8	REF.	1		WHEEL DRIVE PUMP	DH-3



See referenced page for component or assembly breakdown.



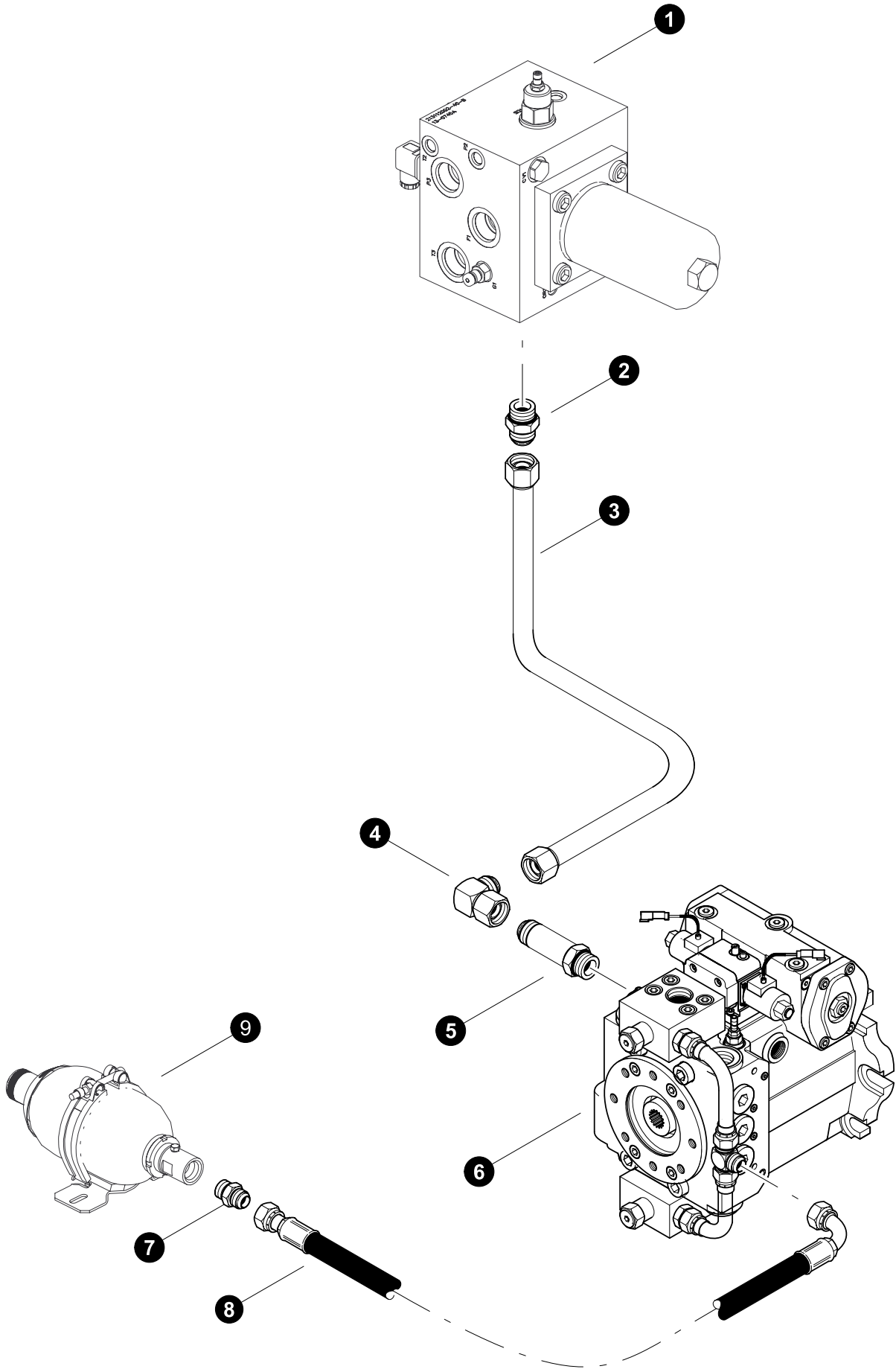
Parts T4118 02/16
18.75

WHEEL DRIVE SYSTEM

Case Drain Hose

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		HYDRAULIC TANK ASSEMBLY.....	UP-2
2	15474-DH	1		ELBOW, 45 - 6802-12	
3		1		HOSE ASSEMBLY - 2038 12-12OS-12O9 Pump Case to Hydraulic Tank	
4	15152-DH	1		CONNECTOR, STR - FF1852T-1212S	
5	REF.	1		WHEEL DRIVE PUMP	DH-3

 See referenced page for component or assembly breakdown.

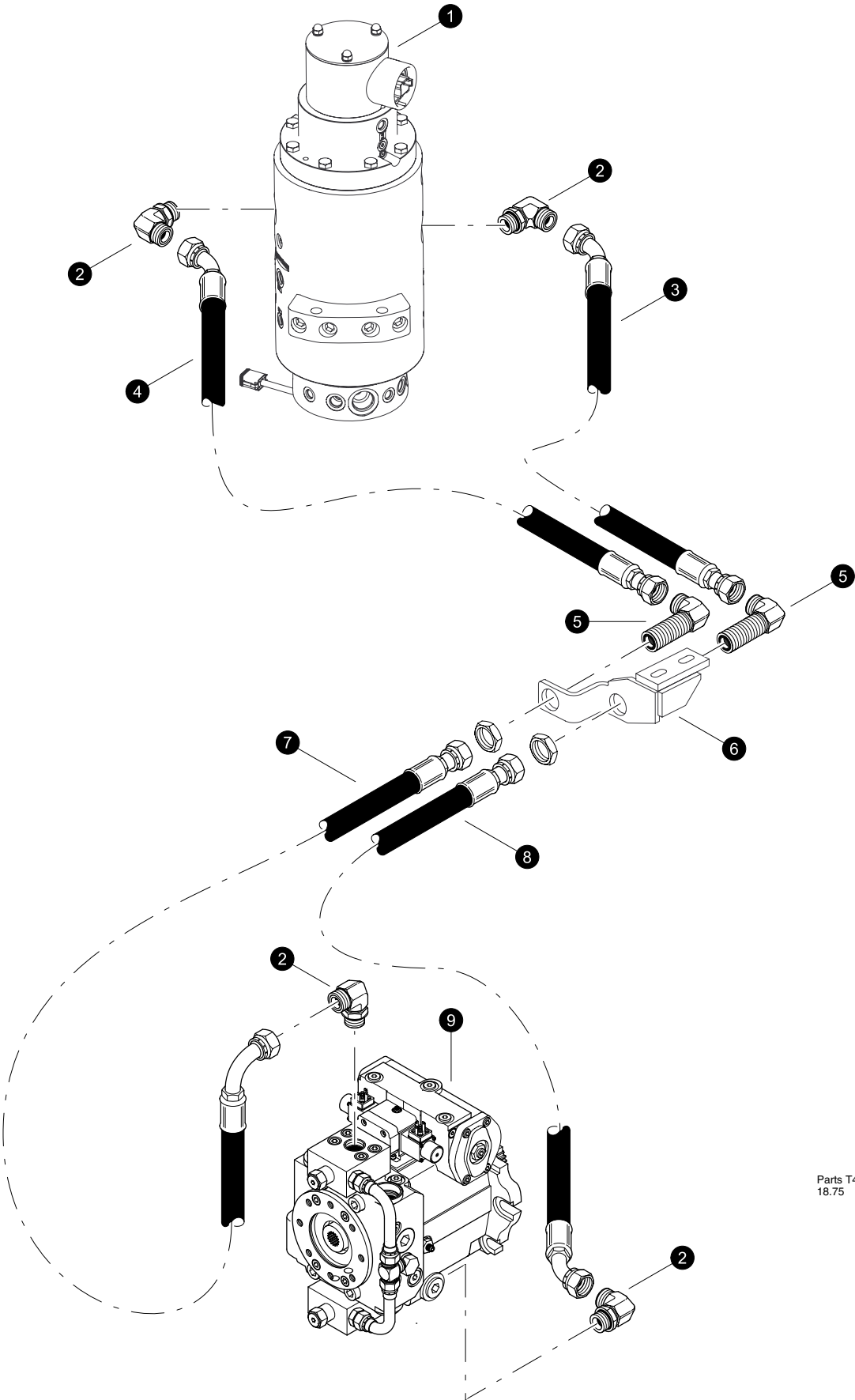


WHEEL DRIVE SYSTEM**Anti-Cavitaion Connections**

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		FAN DRIVE / CHARGE FILTER MANIFOLD	UP-3
2	15495-DH	1		CONNECTOR, STR - 12-16 F5OX-S	
3	55228-DH	1		TUBELINE, CHRG MAN F2 TO EARMUFF	
4	15477-DH	1		ELBOW, 90 SWIVEL - 12 C6X-S	
5	55356-DH	1		FITTING, 12 FF5OX-S	
6	REF.	1		WHEEL DRIVE PUMP	DH-3
7	15152-DH	1		CONNECTOR, STR - FF1852T-1212S	
8	-DH	1		HOSE ASSEMBLY - 2022 12-12OS-12O9	
9	51709-DH	1		ACCUMULATOR, GAS - WHEEL DRIVE	



See referenced page for component or assembly breakdown.



Parts T4120 02/16
18.75

WHEEL DRIVE SYSTEM

Drive Pump Pressure Connections

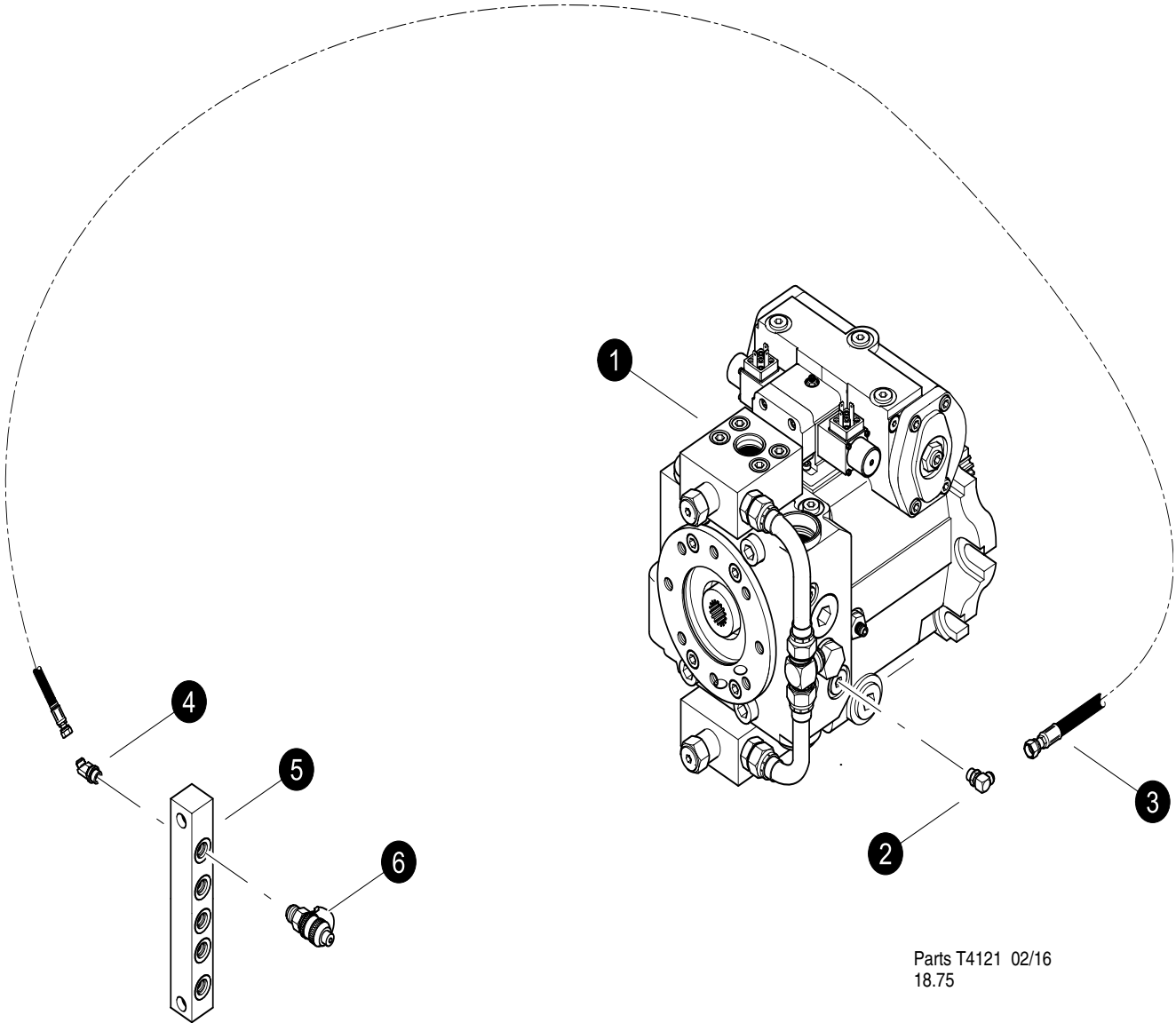
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ROTORY MANIFOLD	UP-1
2	15228-DH	4		ELBOW, 90 - FF1868T-1616S	
3	-DH	1		HOSE ASSEMBLY - 6042 16-16OS-16O4 Rotory WD1 Port	
4	-DH	1		HOSE ASSEMBLY - 6046 16-16OS-16O4 Rotory WD2 Port	
5	53680-DH	4		FITTING, BULKHEAD UNION ELBOW 16 WELO-WN	
6	47508-DH	1		WELDMENT, MACH DRIVE HOSE	
7	-DH	1		HOSE ASSEMBLY - 6041CS 16-16OS-16O9L Wheel Drive Pump	
8	-DH	1		HOSE ASSEMBLY - 6025 16-16OS-16O4 Wheel Drive Pump	
9	REF.	1		WHEEL DRIVE PUMP	DH-3



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Parts T4121 02/16
18.75

WHEEL DRIVE PUMP GAUGE PORTS

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		Wheel Drive Pump	DH-3
2	51889-DH	1		ELBOW, 90 - (4C50X-S)	
3	-DH	1		7057 -02-04JS-04JS (Wheel Drive Pump gauge port to pressure check manifold) Part of kit #55687	
4	51884-DH	1		ELBOW, 45 - (4 V50X-S)	
5	16037-DH	1		Gauge Tap 1/4" Sae	
6	16037-DH	1		TAP, gauge port (1/4" ORB)	

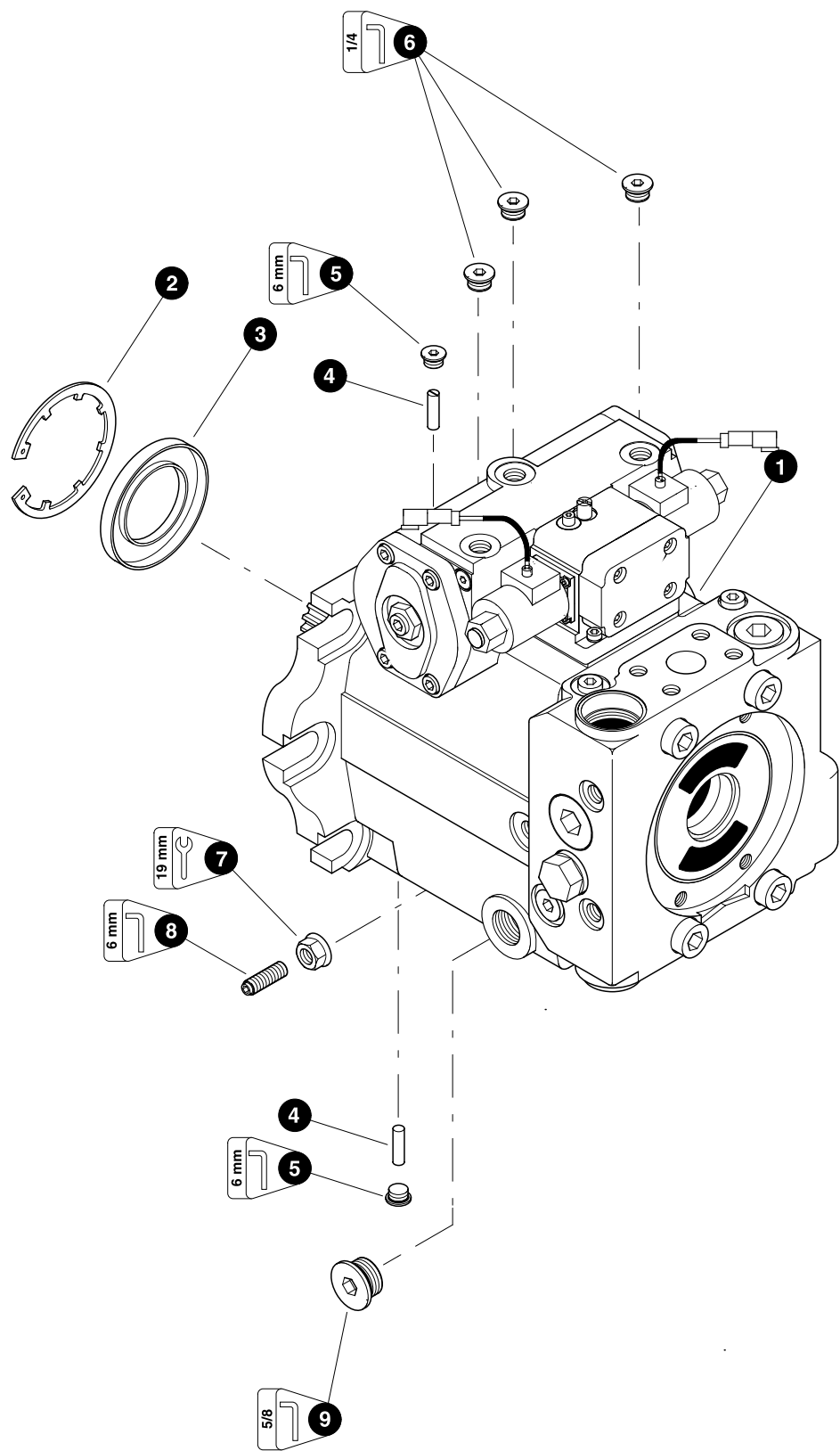


See referenced page for component or assembly breakdown.

[illegible]

Section DH-3

Drive Hydraulics - Wheel Drive System Components



Parts T2676 05/15/2003
37.50

WHEEL DRIVE PUMP - REXROTH AA4VG125 (Forward Cast Housing Components)

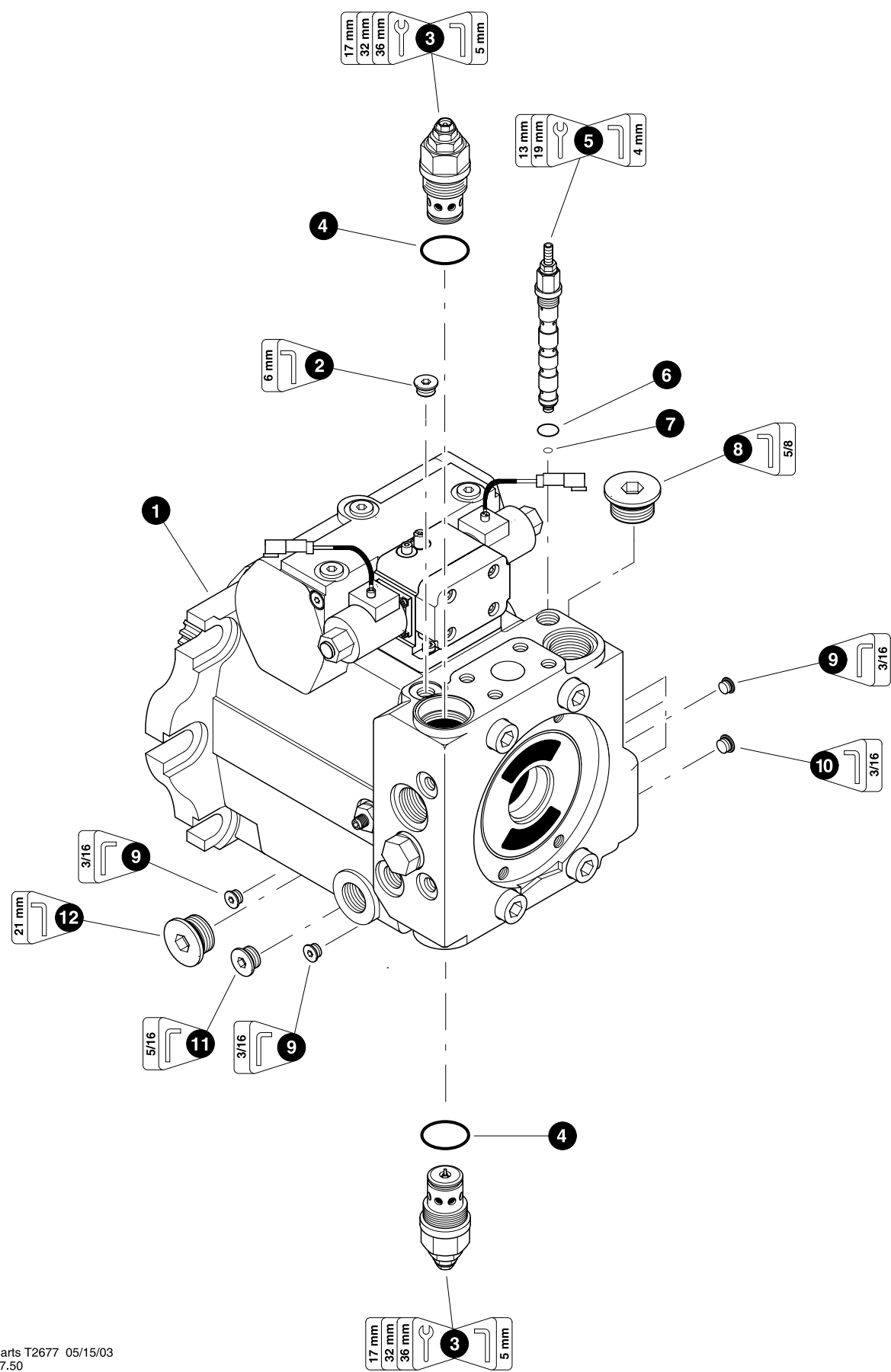
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	55506-DH	1	□	PUMP, WHEEL 125CC - C SEREIS MACHINE	
2	20315-DH	1		RING, snap	
3	19353-DH	1	⌘	SEAL, shaft	
4	20318-DH	2		PIN, cradle	
5	20317-DH	2	⌘	PLUG - 12mm-1.5P	
6	15412-DH	4	□	PLUG - 6408-HHP-6	
	20320-DH	1	⌘	O-RING, ORB - #6	
7	20329-DH	1	⌘	NUT, seal - 12mm-1.5P	
8	20327-DH	1		PIN, threaded - 12mm-1.5P	
9	19847-DH	1	□	PLUG - 6408-HHP-16	
	20324-DH	1	⌘	O-RING, ORB - #16	
-	19356-DH	1		KIT, seal repair - complete AA4VG125 pump	

□ Kit or Assembly - includes all items indented underneath.

⌘ Included in seal repair kit Part # 19356-WD.

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 T2677 05/15/03
37.50

WHEEL DRIVE PUMP - REXROTH AA4VG125 (Rear Port Block Components)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		WHEEL DRIVE PUMP - Rexroth AA4VG125.....	DH-3
2	20317-DH	1		PLUG - 12mm-1.5P	
3	20330-DH	2		CARTRIDGE, high pressure relief valve	
	20331-DH	1		NUT, seal - 10mm-1.0P	
4	20332-DH	1		O-RING, HPRV cartridge	
5	20254-DH	1		CARTRIDGE, POR relief valve	
6	20337-DH	1		O-RING, POR relief valve - body	
7	20338-DH	1		O-RING, POR relief valve - chamber	
8	19847-DH	1		PLUG - 6408-HHP-16	
	20324-DH	1		O-RING, ORB - #16	
9	20339-DH	4		PLUG - 8mm-1.0P	
10	11383-DH	2		PLUG - 6408-HHP-4	
	20319-DH	1		O-RING, ORB - #4	
11	19271-DH	2		PLUG - 6408-HHP-10	
	20322-DH	1		O-RING, ORB - #10	
12	20333-DH	1		PLUG - 42mm-2.0P	
	20334-DH	1		O-RING, ORB - 42mm-2.0P	
-	19356-DH	1		KIT, seal repair - complete AA4VG125 pump	



See referenced page for component breakdown.



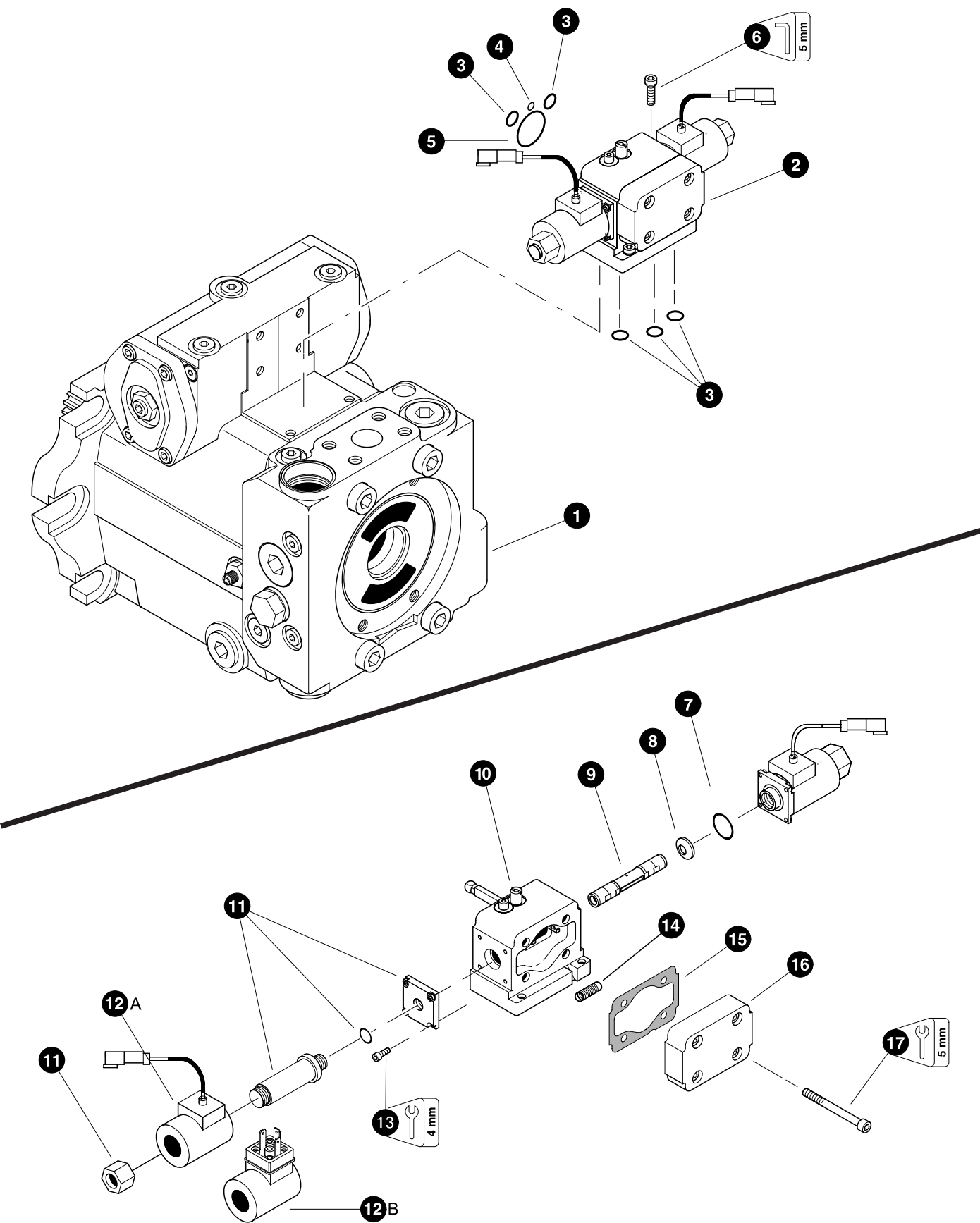
Kit or Assembly - includes all items indented underneath.



Included in seal repair kit Part # 19356-WD.

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 T2678 05/16/03
37.50

WHEEL DRIVE PUMP - REXROTH AA4VG125 (Stroke Control Assembly)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		WHEEL DRIVE PUMP - Rexroth AA4VG125.....	DH-3
2	50935-DH	1		VALVE, stroke control - 24V current	
3	20342-DH	5		O-RING, stroke control	
4	20343-DH	1		O-RING, stroke control	
5	20344-DH	1		O-RING, stroke control	
6	20345-DH	2		BOLT, allen head - 6mm x 20mm	
7	-	2		O-RING, (09083764)	
8	-	2		SPRING, CUP (02601640)	
9	NSS	1		SPOOL,	
10	-	1		MODULE, stroke control - (02046894)	
11	-	2		COIL STEM, assembly (02046037)	
12a	50465-DH	2		COIL, solenoid - 24V	
12b	50043-DH	2		COIL, solenoid - (hershman style connector 24v) (old style)	
13	-	8		BOLT, allen head - 4mm (09083183)	
14	-	1		SPRING, stroke centering (02063327)	
15	-	1		GASKET, (09651478)	
16	-	1		COVER, (09443201)	
17	-	4		BOLT, allen head - 6mm (09085831)	
-	19356-DH	1		KIT, seal repair - complete AA4VG125 pump	



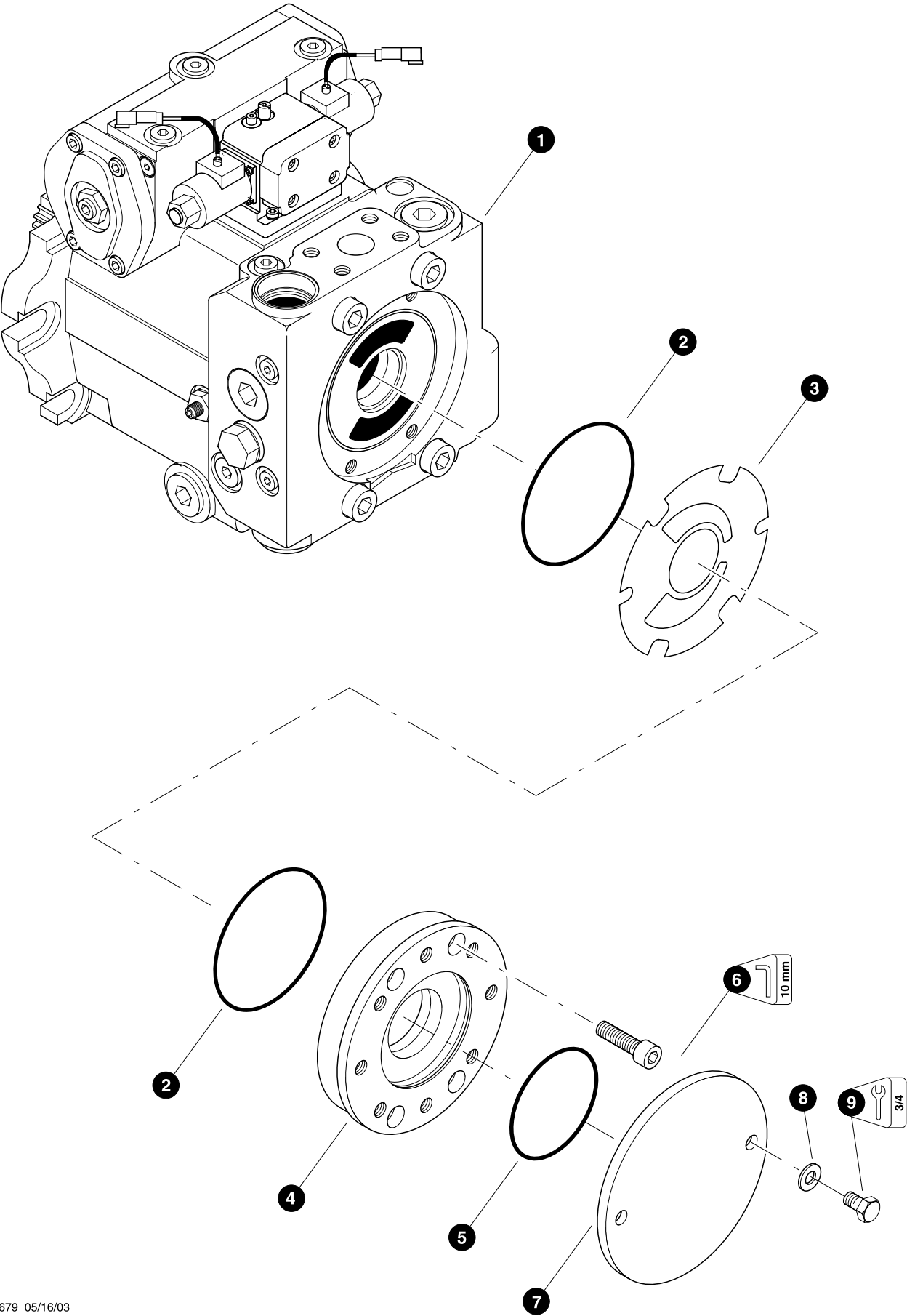
See referenced page for component breakdown.



Kit or Assembly - includes all items indented underneath.



Included in seal repair kit Part # 19356-WD



WHEEL DRIVE PUMP - REXROTH AA4VG125 (Thru Drive Components)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		WHEEL DRIVE PUMP - Rexroth AA4VG125.	DH-3
-	-----	1		THRU DRIVE ASSEMBLY (No gear charge pump)	
2	20368-DH	2		O-RING, thru drive wear plate	
3	20369-DH	1		PLATE, wear	
4	NSS	1		HOUSING	
5	21624-DH	1		O-RING, thru drive pilot (SAE "B")	
6	18954-DH	4		BOLT, allen head - 12mm-1.75P x 40mm	
7	18414	1		COUPLING, thru drive	
8	18040	1		WASHER, flat - .5"	
9	10783	1		BOLT - .5" X 1"	
-	19356-DH	1		KIT, seal repair - complete AA4VG125 pump	



See referenced page for component breakdown.



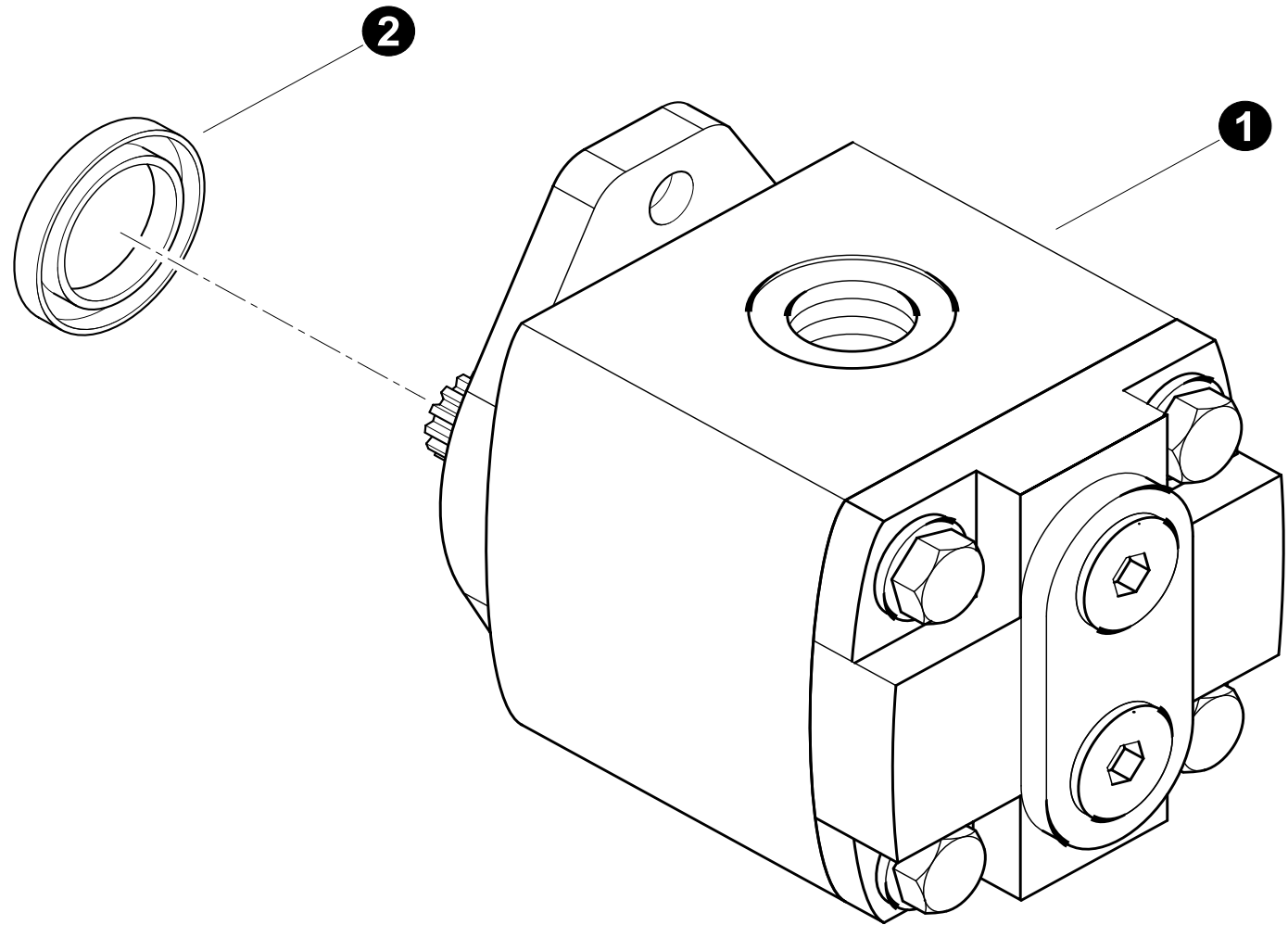
Kit or Assembly - includes all items indented underneath.



Included in seal repair kit Part # 19356-WD.

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 T3739 10/08
50.00

Charge Pump Breakdown

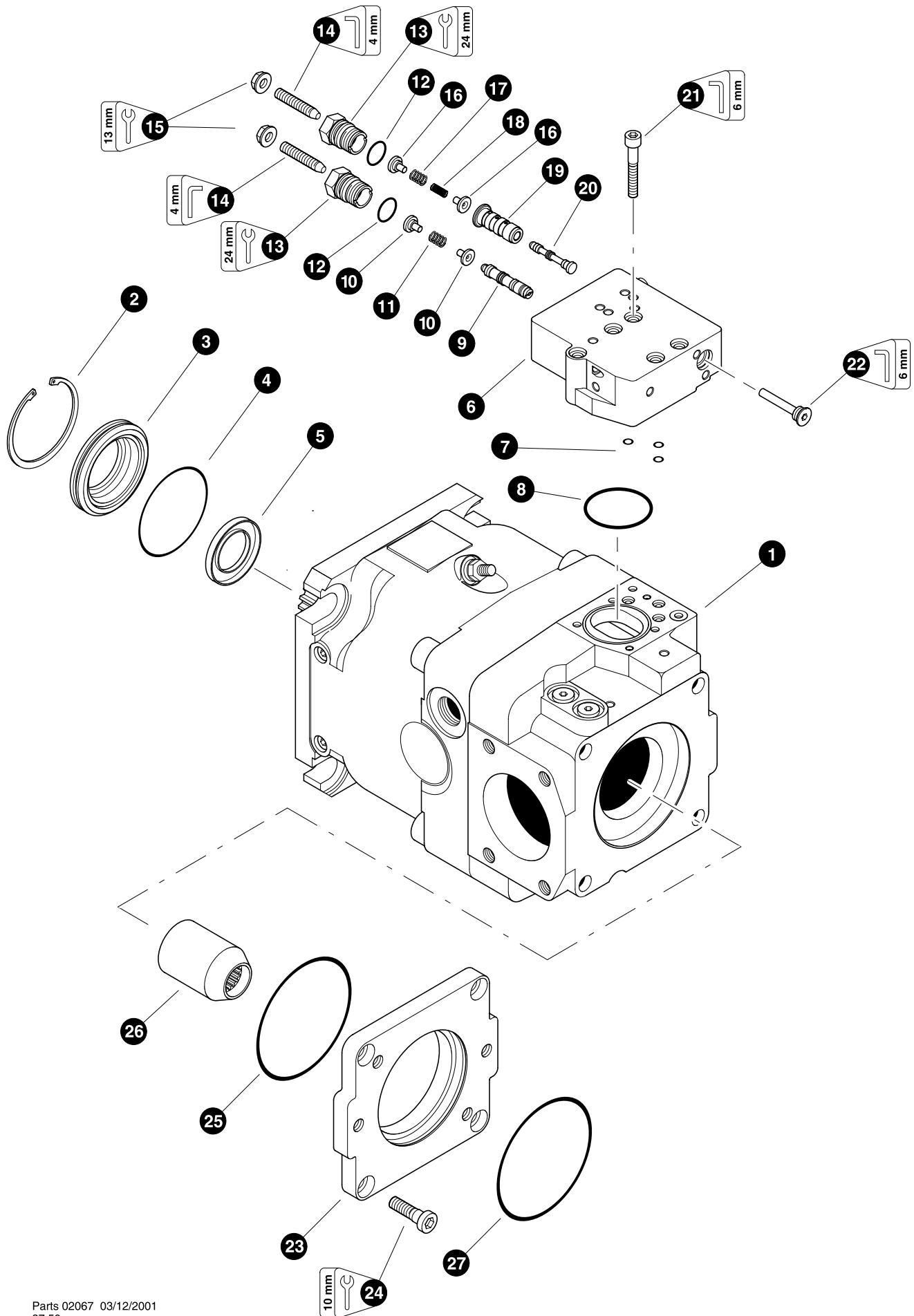
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	52566-DH	1	☐ PUMP, CHARGE Wheel MACHINE	
2	52160-DH	1	SEAL, shaft - Wheel charge pump	SEE SECTION

☐ Kit or Assembly - includes all items indented underneath.

[illegible]

Section LH-1

Loader Boom Hydraulics - Implement Pump and Control Valve



Parts 02067 03/12/2001
37.50

IMPLEMENT PUMP (Rexroth 145cc)

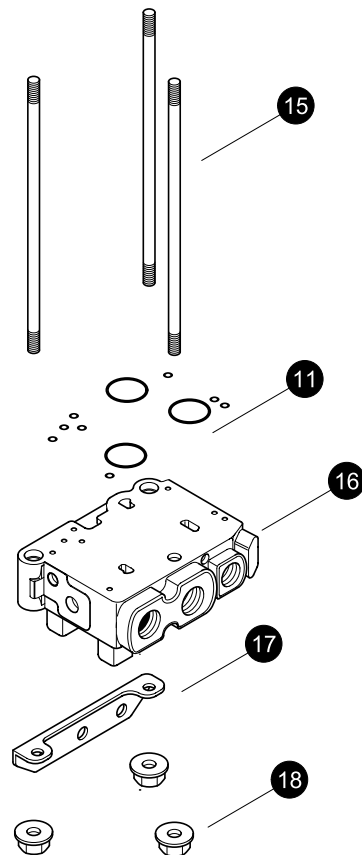
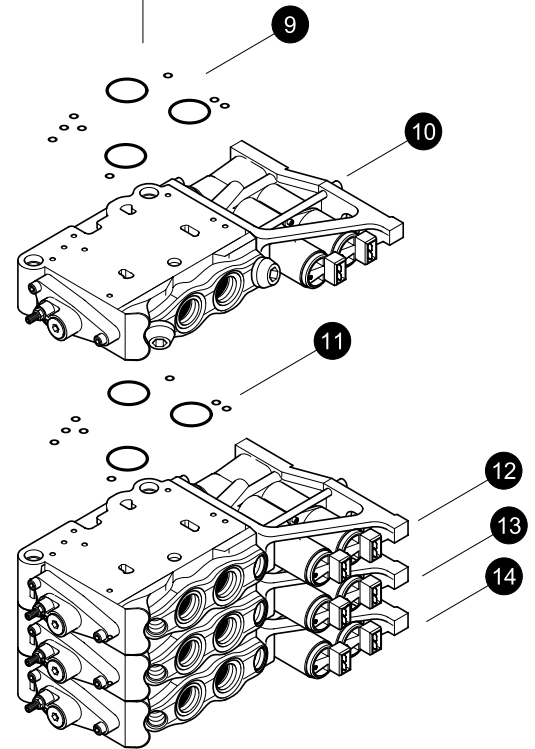
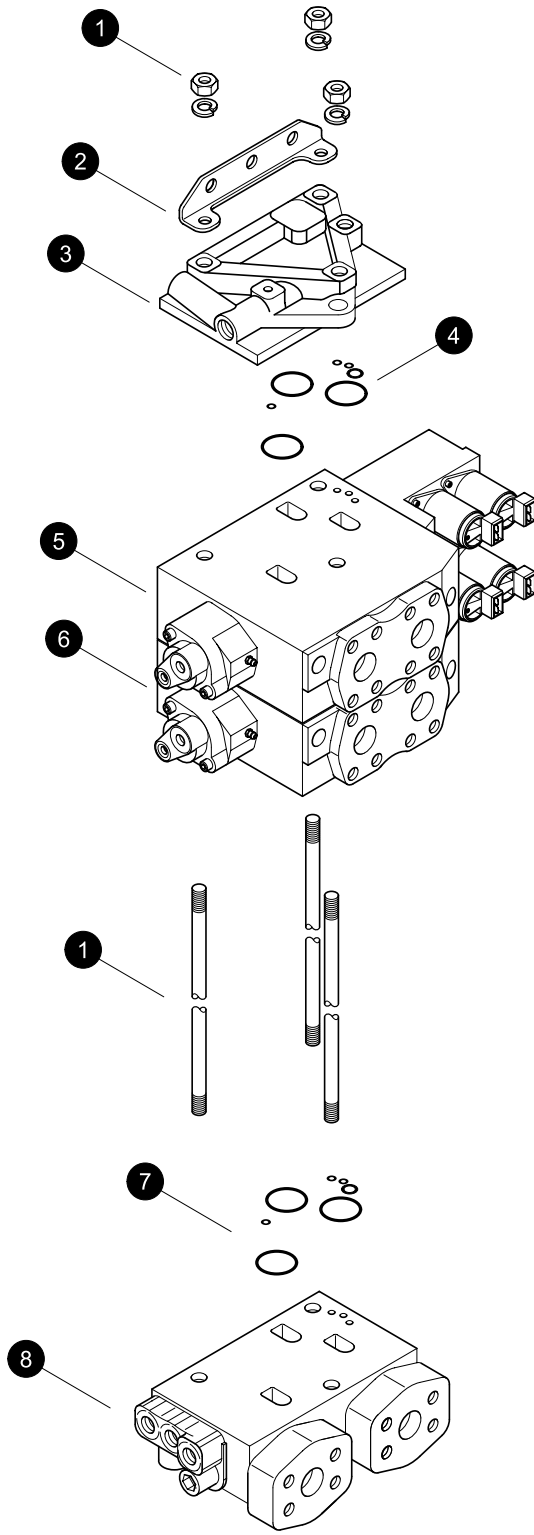
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	24505-LH	1	□	PUMP, implement - Rexroth 145cc	
2	21546-LH	1		RING, seal retaining	
3	21547-LH	1		COVER, front	
4	21548-LH	1	⌘	O-RING, front cover	
5	18687-LH	1	⌘	SEAL, shaft	
6	18681-LH	1	□	COMPENSATOR	
7	20809-LH	3	⌘	O-RING, quad	
8	20808-LH	1	⌘	O-RING, compensator	
9	NSS	1		SPOOL, POR pressure	
10	21551-LH	2		RETAINER, spring	
11	21552-LH	1		SPRING	
12	21553-LH	2	⌘	O-RING, compensator cap	
13	21554-LH	2		CAP, compensator	
14	20358-LH	2	⌘	NUT, seal	
15	21555-LH	2		SCREW, adjusting	
16	21558-LH	2		RETAINER, spring	
17	21556-LH	1		SPRING	
18	21557-LH	1		SPRING	
19	NSS	1		SLEEVE, spool	
20	NSS	1		SPOOL, stand-by pressure	
21	21559-LH	5		BOLT, allen head - 8mm x 50mm	
22	NSS	1		PLUG	
23	24424-LH	1	□	KIT, FLANGE, thru drive v/o	
24	17608-LH	4		BOLT, allen head - 12mm-1.75P x 30mm	
25	17744-LH	1	⌘	O-RING, thru drive flange	
26	18843-LH	1		COUPLING, thru drive	
27	18844-LH	1		O-RING, thru drive cover	
--	18799-LH	1		KIT, seal repair (<i>Complete pump</i>)	

□ Kit or Assembly - includes all items indented underneath.

⌘ Included in seal repair kit, PN# 18799-LH.

Note:

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



Parts T4122 03/2016
25.00

MAIN CONTROL VALVE

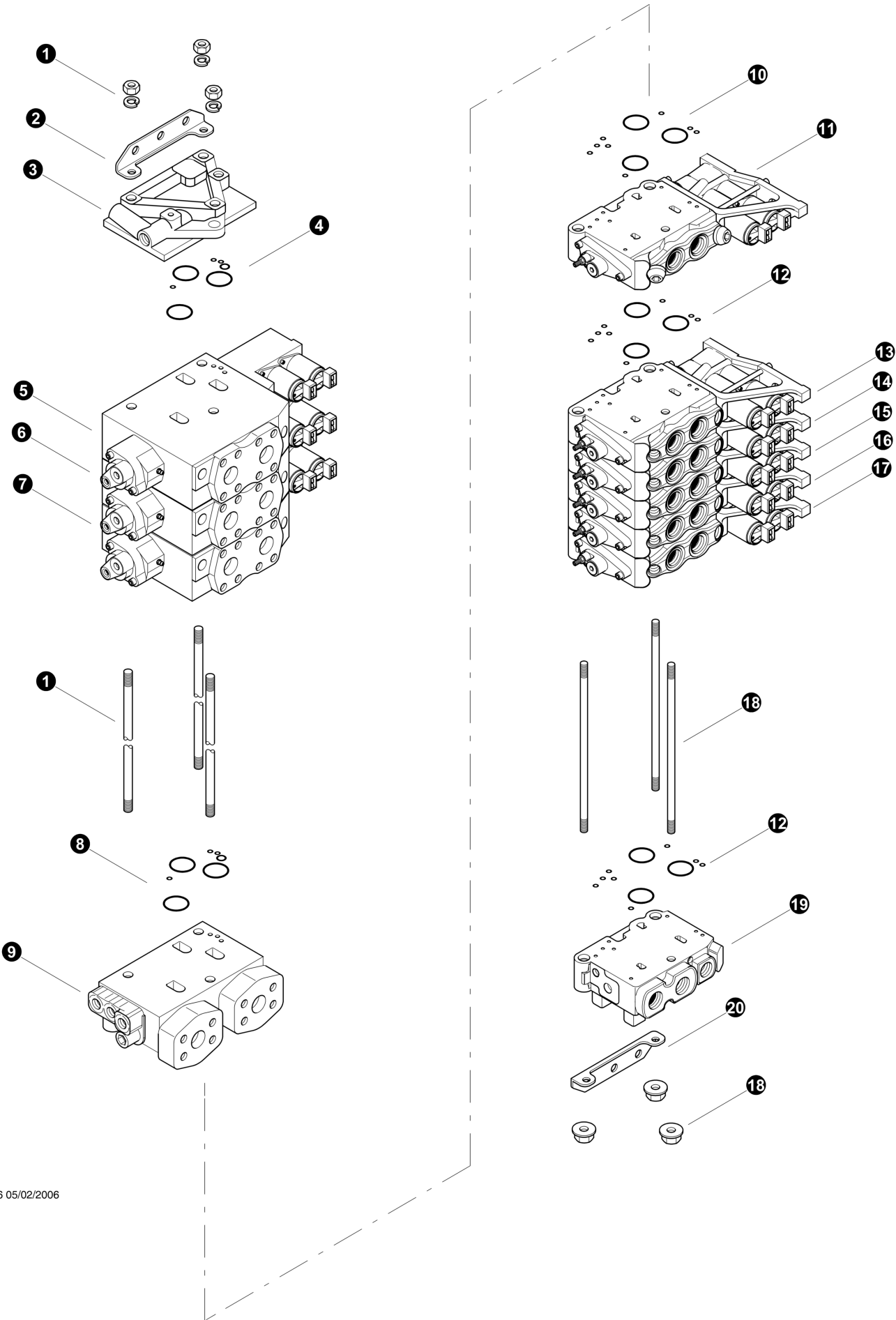
(Forwarder TF830, TF840)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	52362-LH	1	☐	VALVE, MAIN - VOAC (24 volt / 6 sections) with out / squirt boom section	
-	52361-LH	1		VALVE, MAIN - VOAC (24 volt / 7 sections) with / squirt boom section	
1	---	1		KIT, Tie Rods and Nuts - K220 (2-Section span) (9120092371)	
2	---	1		KIT, Bracket - K220 (9120092365)	
3	---	1		COVER, K220 Valve	
4	24649-LH	1		KIT, Seals - Voac Intersection (9120092315)	
5	REF	1	☐	VALVE SECTION - Stick Boom	LH-1
6	REF	1	☐	VALVE SECTION - Main Boom	LH-1
7	24649-LH	1		KIT, Seals - Voac Parting "K" (9120092315)	
8	REF	1		MID INLET, K220 to L90	LH-1
9	23404-LH	1		KIT, Seals - Voac Parting "L" (393000K820)	
10	REF	1	☐	VALVE SECTION - "OPTIONAL" Squirt Boom.	LH-1
11	---	1		KIT, Seals - Voac Parting "L" (393000K820)	
12	REF	1	☐	VALVE SECTION - Rotate function	LH-1
13	REF	1	☐	VALVE SECTION - Grapple O/C function	LH-1
14	REF	1	☐	VALVE SECTION - Steer function	LH-1
15	---	1		KIT, Tie Rods and Nuts - L90 (4-Section span) (393000K003)	
15	25133-LH	1		KIT, Tie Rods and Nuts - L90 (5-Section span) (393000K004)	
16	-LH	1		END COVER, L90 Valve	
17	---	1		KIT, Bracket - L90 (393000K824)	
18	REF	1		COVER, L90 valve outlet.	LH-1

☐ Kit or Assembly - includes all items indented underneath.

☐ See referenced page for component or assembly breakdown.

Shown are standard valve configurations, some machines have custom built valves, contact the factory for more informatoin if your valve doesn't match what is shown.



Parts T3446 05/02/2006
25.00

MAIN CONTROL VALVE

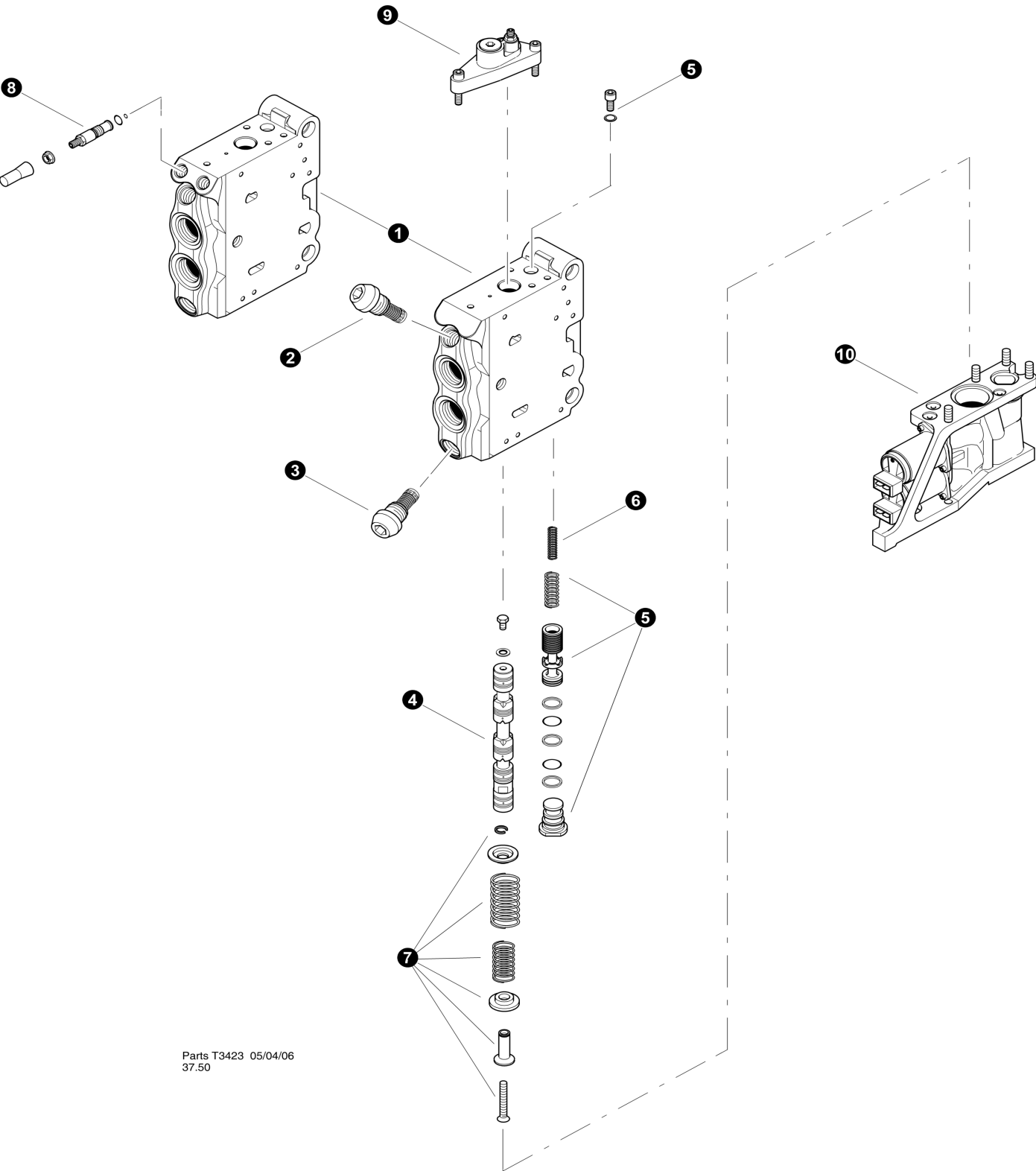
(Harvester TF 830 & TB 630)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	52496-LH	1		VALVE, MAIN - VOAC (24 volt / 9 section) Log Max Harvester	
1	---	1		KIT, Tie Rods and Nuts - K220 (2-Section span) (9120092372)	
2	---	1		KIT, Bracket - K220 (9120092365)	
3	---	1		COVER, K220 Valve	
4	24649-LH	1		KIT, Seals - Voac Intersection (9120092315)	
5	REF	1		VALVE SECTION - Harvester Press (830B-0314 and before) .	LH-1
5	REF	1		VALVE SECTION - Stick Boom (830B-0315 and after)	LH-1
6	REF	1		VALVE SECTION - Main Boom (830B-0314 and before)	LH-1
6	REF	1		VALVE SECTION - Harvester Press (830B-0315 and after) . . .	LH-1
7	REF	1		VALVE SECTION - Stick Boom (830B-0314 and before)	LH-1
7	REF	1		VALVE SECTION - Main Boom (830B-0315 and after)	LH-1
8	24649-LH	1		KIT, Seals - Voac Parting "K" (9120092315)	
9	REF	1		MID INLET, K220 to L90	LH-1
10	23404-LH	1		KIT, Seals - Voac Parting "L" (393000K820)	
11	REF	1		VALVE SECTION - "OPTIONAL" Squirt Boom	LH-1
12	---	1		KIT, Seals - Voac Parting "L" (393000K820)	
13	REF	1		VALVE SECTION - Harvester - Low Flow	LH-1
14	REF	1		VALVE SECTION - Rotate function	LH-1
15	REF	1		VALVE SECTION - Spare	LH-1
16	REF	1		VALVE SECTION - Cab Level	LH-1
17	REF	1		VALVE SECTION - Steer function	LH-1
18	---	1		KIT, Tie Rods and Nuts - L90 (6-Section span) (393000K005)	
19	REF	1		COVER, L90 valve outlet.	LH-1
20	---	1		KIT, Bracket - L90 (393000K824)	

 Kit or Assembly - includes all items indented underneath.

 See referenced page for component or assembly breakdown.

Shown are standard valve configurations, some machines have custom built valves, contact the factory for more informatoin if your valve doesn't match what is shown.



Parts T3423 05/04/06
37.50

L90LS VALVE SECTION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	-LH	1	☐	VALVE SECTION - (Optional) Squirt Boom function (L90LS-MS-US60-275)	
1	NSS	1		BODY	
2	---	1		CARTRIDGE, "A" port relief (250 Bar) (393000K569)	
3	---	1		CARTRIDGE, "B" port relief (250 Bar) (393000K569)	
4	---	1		SPOOL, RKX (393000S490)	
5	---	1	☐	KIT, "KX" COMPENSATOR, BLUE (393000K616)	
5	---	1	☐	KIT, "KX" COMPENSATOR, GREEN (393000K617)	
-	---	1		KIT, compensator seals (393000K811)	
6	---	1		SPRING, (only used with KX compensator kit)	
7	23423-LH	1	☐	KIT, spool centering spring (393000K343)	
8	---	2	☐	KIT, FEED REDUCER (393000K817)	
-	---	2		KIT, feed reducer seals (393000K831)	
9	REF	1	☞	END CAP ASSEMBLY - "A" port	LH-1
10	REF	1	☞	END CAP ASSEMBLY - "B" port	LH-1
-	-LH	1	☐	VALVE SECTION - Grapple Rotate function (L90LS-MS-US60-273)	
1	NSS	1		BODY	
2	---	1		CARTRIDGE, "A" port relief (250 Bar) (393000K569)	
3	---	1		CARTRIDGE, "B" port relief (250 Bar) (393000K569)	
4	---	1		SPOOL, RKX (393000S490)	
5	---	1	☐	KIT, "K" COMPENSATOR, BLUE (393000K169)	
5	---	1	☐	KIT, "K" COMPENSATOR, GREEN (393000K469)	
-	---	1		KIT, compensator seals (393000K811)	
6	---	1		SPRING, (only used with KX compensator kit)	
7	23423-LH	1	☐	KIT, spool centering spring (393000K343)	
8	---	2	☐	KIT, FEED REDUCER (393000K817)	
-	---	2		KIT, feed reducer seals (393000K852)	
9	REF	1	☞	END CAP ASSEMBLY - "A" port	LH-1
10	REF	1	☞	END CAP ASSEMBLY - "B" port	LH-1
-	-LH	1	☐	VALVE SECTION - Grapple Open / Close function (L90LS-MS-US60-272)	
1	NSS	1		BODY	
2	---	1		CARTRIDGE, "A" port relief (280 Bar) (393000K571)	
3	---	1		CARTRIDGE, "B" port relief (280 Bar) (393000K571)	
4	---	1		SPOOL, RKX (393000S490)	
5	---	1	☐	KIT, "K" COMPENSATOR, BLUE (393000K169)	
5	---	1	☐	KIT, "K" COMPENSATOR, GREEN (393000K469)	
-	---	1		KIT, compensator seals (393000K811)	
6	---	1		SPRING, (only used with KX compensator kit)	
7	23423-LH	1	☐	KIT, spool centering spring (393000K343)	
8	---	2	☐	KIT, FEED REDUCER (393000K817)	
-	---	2		KIT, feed reducer seals (393000K852)	
9	REF	1	☞	END CAP ASSEMBLY - "A" port	LH-1
10	REF	1	☞	END CAP ASSEMBLY - "B" port	LH-1

☐ Kit or Assembly - includes all items indented underneath.

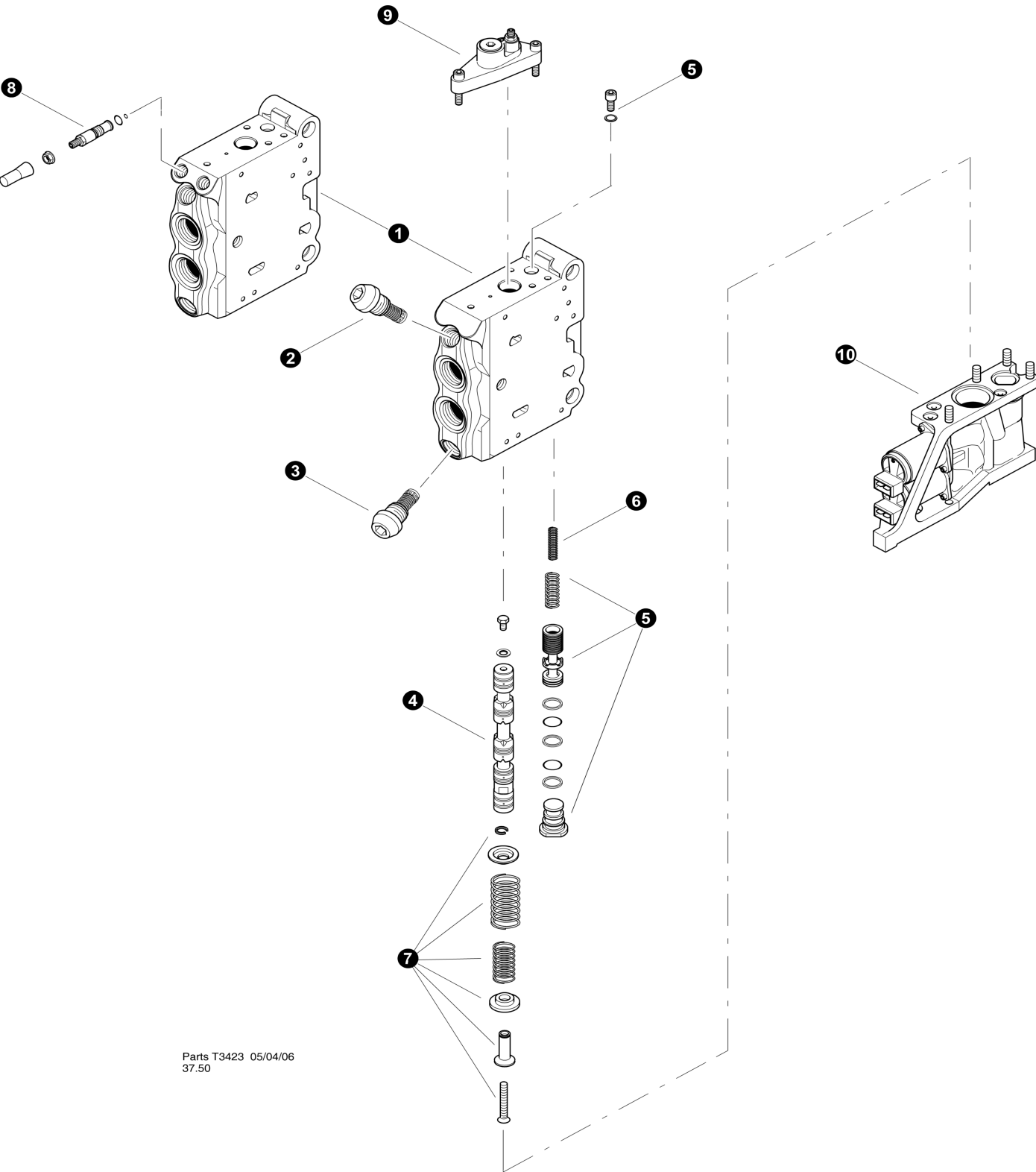
☞ See referenced page for component or assembly breakdown.

L90LS VALVE SECTION (Continued...)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	-LH	1		VALVE SECTION - Cab Swing function (L90LS-MS-US60-271)	
1	NSS	1		BODY	
2	---	1		CARTRIDGE, "A" port relief (300 Bar) (393000K572)	
3	---	1		CARTRIDGE, "B" port relief (300 Bar) (393000K572)	
4	---	1		SPOOL, RKX (393000S490)	
5	---	1		KIT, "KH" COMPENSATOR, BLUE (393000K505)	
5	---	1		KIT, "KH" COMPENSATOR, GREEN (393000K506)	
-	---	1		KIT, compensator seals (393000K811)	
6	---	1		SPRING, (only used with KX compensator kit)	
7	23423-LH	1		KIT, spool centering spring (393000K343)	
8	---	2		KIT, FEED REDUCER (393000K817)	
-	---	2		KIT, feed reducer seals (393000K852)	
9	REF	1		END CAP ASSEMBLY - "A" port	LH-1
10	REF	1		END CAP ASSEMBLY - "B" port	LH-1
-	-LH	1		VALVE SECTION - Steer function (L90LS-MS-US60-270)	
1	NSS	1		BODY	
2	---	1		CARTRIDGE, "A" port relief (250 Bar) (393000K569)	
3	---	1		CARTRIDGE, "B" port relief (250 Bar) (393000K569)	
4	---	1		SPOOL, RKX (393000S490)	
5	---	1		KIT, "KX" COMPENSATOR, BLUE (393000K616)	
5	---	1		KIT, "KX" COMPENSATOR, GREEN (393000K617)	
-	---	1		KIT, compensator seals (393000K811)	
6	---	1		SPRING, (only used with KX compensator kit)	
7	23423-LH	1		KIT, spool centering spring (393000K343)	
8	---	2		KIT, FEED REDUCER (393000K817)	
-	---	2		KIT, feed reducer seals (393000K852)	
9	REF	1		END CAP ASSEMBLY - "A" port	LH-1
10	REF	1		END CAP ASSEMBLY - "B" port	LH-1
-	-LH	1		VALVE SECTION - Cab Level function (L90LS-MS-US60-276)	
1	NSS	1		BODY	
2	---	1		CARTRIDGE, "A" port relief (300 Bar) (393000K572)	
3	---	1		CARTRIDGE, "B" port relief (300 Bar) (393000K572)	
4	---	1		SPOOL, ZEX ()	
5	---	1		KIT, "KX" COMPENSATOR, BLUE (393000K616)	
5	---	1		KIT, "KX" COMPENSATOR, GREEN (393000K617)	
-	---	1		KIT, compensator seals (393000K811)	
6	---	1		SPRING, (only used with KX compensator kit)	
7	23423-LH	1		KIT, spool centering spring (393000K343)	
8	---	2		KIT, FEED REDUCER (393000K817)	
-	---	2		KIT, feed reducer seals (393000K852)	
9	REF	1		END CAP ASSEMBLY - "A" port	LH-1
10	REF	1		END CAP ASSEMBLY - "B" port	LH-1

 Kit or Assembly - includes all items indented underneath.

 See referenced page for component or assembly breakdown.



Parts T3423 05/04/06
37.50

L90LS VALVE SECTION (Continued...)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	-LH	1	☐	VALVE SECTION - Low Flow Harvester function (L90LS-MS-US60-281)	
1	NSS	1		BODY	
2	---	1		CARTRIDGE, "A" port relief (300 Bar) (393000K572) STD	
	---	1		CARTRIDGE, "A" port relief (320 Bar) (393000K573)	
3	---	1		CARTRIDGE, "B" port relief (300 Bar) (393000K572) STD	
	---	1		CARTRIDGE, "A" port relief (320 Bar) (393000K573)	
4	---	1		SPOOL, RKX (393000S490)	
5	---	1	☐	KIT, "KX" COMPENSATOR, BLUE (393000K616)	
5	---	1	☐	KIT, "KX" COMPENSATOR, GREEN (393000K617)	
-	---	1		KIT, compensator seals (393000K811)	
6	---	1		SPRING, (only used with KX compensator kit)	
7	23423-LH	1	☐	KIT, spool centering spring (393000K343)	
8	---	2	☐	KIT, FEED REDUCER (393000K817)	
-	---	2		KIT, feed reducer seals (393000K852)	
9	REF	1	📖	END CAP ASSEMBLY - "A" port	LH-1
10	REF	1	📖	END CAP ASSEMBLY - "B" port	LH-1

☐ Kit or Assembly - includes all items indented underneath.

📖 See referenced page for component or assembly breakdown.

L90LS VALVE END CAP

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	NSS	1		VALVE SECTION BODY	
-	23414-LH	1	☐	KIT, end cap - "A" port side	
2	NSS	1		CAP, end	
3	-----	3		BOLT, allen head - 6mm-1.0P x 20mm (0211124703)	
4	15412-LH	1		PLUG - 6408-HHP-6	
5	-----	1	⌘	RING, seal (3-906)	
6	-----	1	⌘	NUT, seal - 6mm (3763131)	
7	-----	1		SCREW, adjustment (3764640)	
-	23415-LH	1	☐	KIT, seal repair - "A" port side end cap	
8	-----	1	⌘	O-RING (Large) (0663210509)	
9	-----	1	⌘	O-RING (Small) (06632114)	



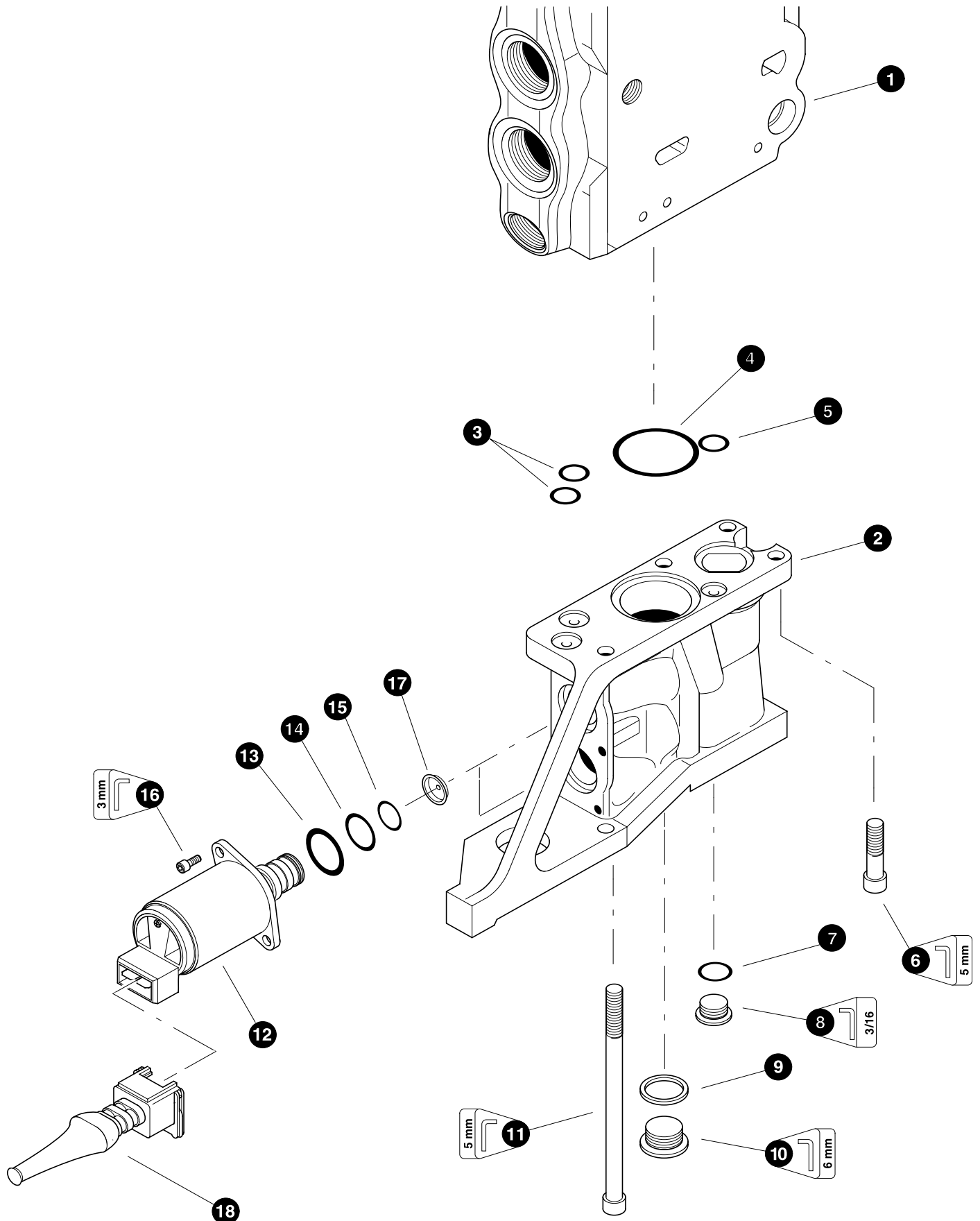
See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Included in seal repair kit PN# 23415-LH.



L90LS VALVE CONTROL CAP

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	NSS	1		VALVE SECTION BODY	
-	23416-LH	1	□	KIT, end cap - "B" port side	
2	-----	1		CAP, end	
3	-----	2	⌘	O-RING (Small)	
4	-----	1	⌘	O-RING (Large)	
5	-----	1	⌘	O-RING (Small)	
6	-----	2		BOLT, allen head - 6mm-1.0P x 20mm (0211124703)	
7	-----	1	⌘	O-RING	
8	11383-LH	1		PLUG - 6408-HHP-4	
9	-----	1	⌘	RING, seal	
10	-----	1		PLUG (0686644203)	
11	-----	2		SCREW, allen head - 6mm-1.0P x 100mm (0211126403)	
12	20976-LH	2		SOLENOID - 24V	
13	-----	2	◆	O-RING (Large)	
14	-----	2	◆	O-RING (Medium)	
15	-----	2	◆	O-RING (Small)	
16	-----	4		SCREW, allen head - 4mm-.75P x 12mm (0211117103)	
17	-----	2		DAMPER, pilot restrictor orifice (voac solenoid)(see note #1 below)	
18	19179-LH	2		CONNECTOR, (kit) voac controll valve	
-	23417-LH	1		KIT, seal repair - "B" port side end cap	
-	23418-LH	1		KIT, seal repair - solenoid	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Included in seal repair kit PN# 23417-LH.



Included in seal repair kit PN# 23418-LH.

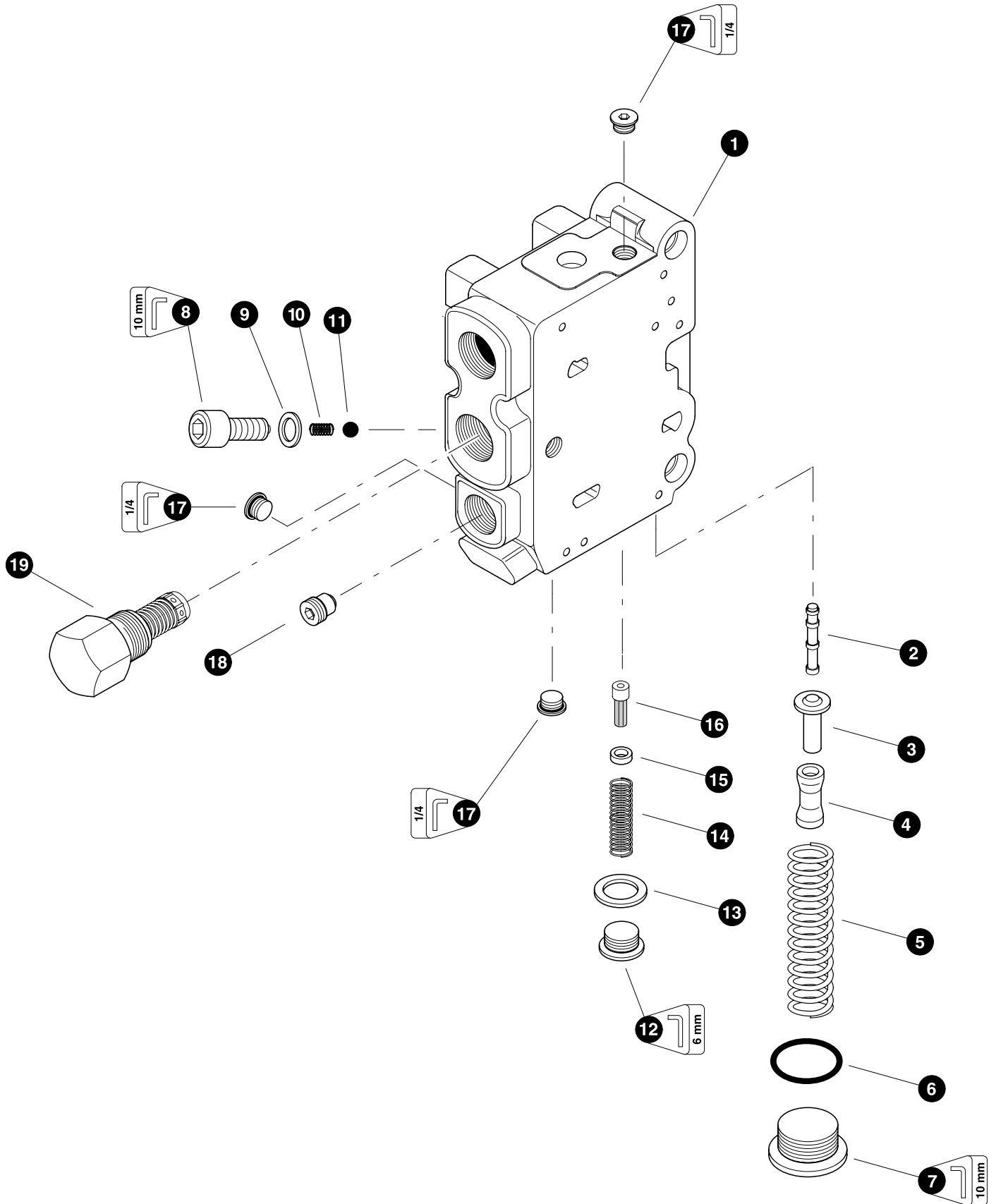
NOTE #1:

Orifice sizes vary depending upon function.

#3762396 0.6 mm

#3762397 0.8 mm

#3762398 1.0 mm



Parts 01319 09/16/99
62.00

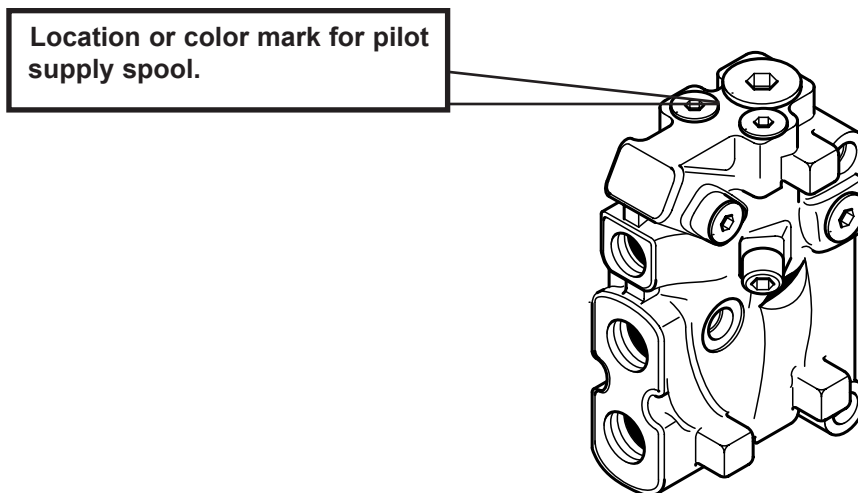
L90LS VALVE OUTLET

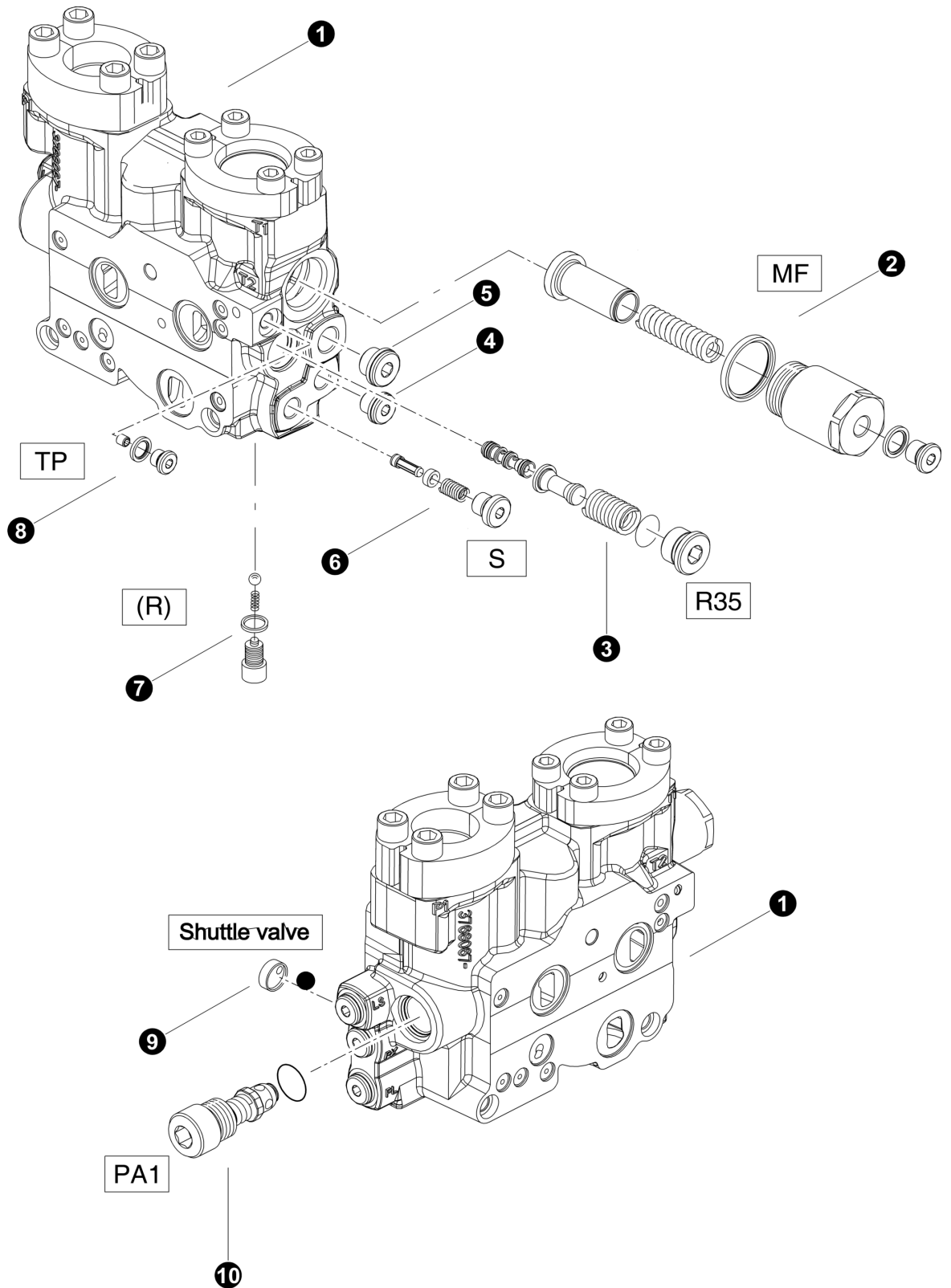
REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	23412-LH	1	☐	VALVE SECTION, outlet	
1	NSS	1		BODY, valve section	
-	23431-LH	1	☐	KIT, pilot supply reducer (Green)(35 bar)(see note #1)	
	23432-LH	1	☐	KIT, pilot supply reducer (Red)(35 bar)(see note #1)	
2	-----	1		SPOOL, pilot reducer	
3	-----	1		RETAINER, spring	
4	-----	1		SPACER, spring	
5	-----	1		SPRING	
6	-----	1		O-RING (0663909901)	
7	-----	1		PLUG (9126244413)	
8	-----	1		PLUG (9127320022)	
9	-----	1		RING, seal (06611005)	
10	-----	1		SPRING	
11	-----	1		BALL, check	
-	23433-LH	1	☐	KIT, pilot supply strainer	
12	-----	1		PLUG (9127320020)	
13	-----	1		RING, seal (06611020)	
14	-----	1		SPRING	
15	-----	1		SPACER	
16	-----	1		STRAINER (9126386076)	
17	15412-LH	3		PLUG - 6408-HHP-6	
18	-----	1		PLUG, pilot drain (393000K078)	
19	-----	1		Counter press. valve - 130 PSI (393000K068)	

☐ Kit or Assembly - includes all items indented underneath.

NOTE #1

Each section is color coded to insure proper fit, please check color mark before ordering.





Parts T3422 05/02/2006
50.00

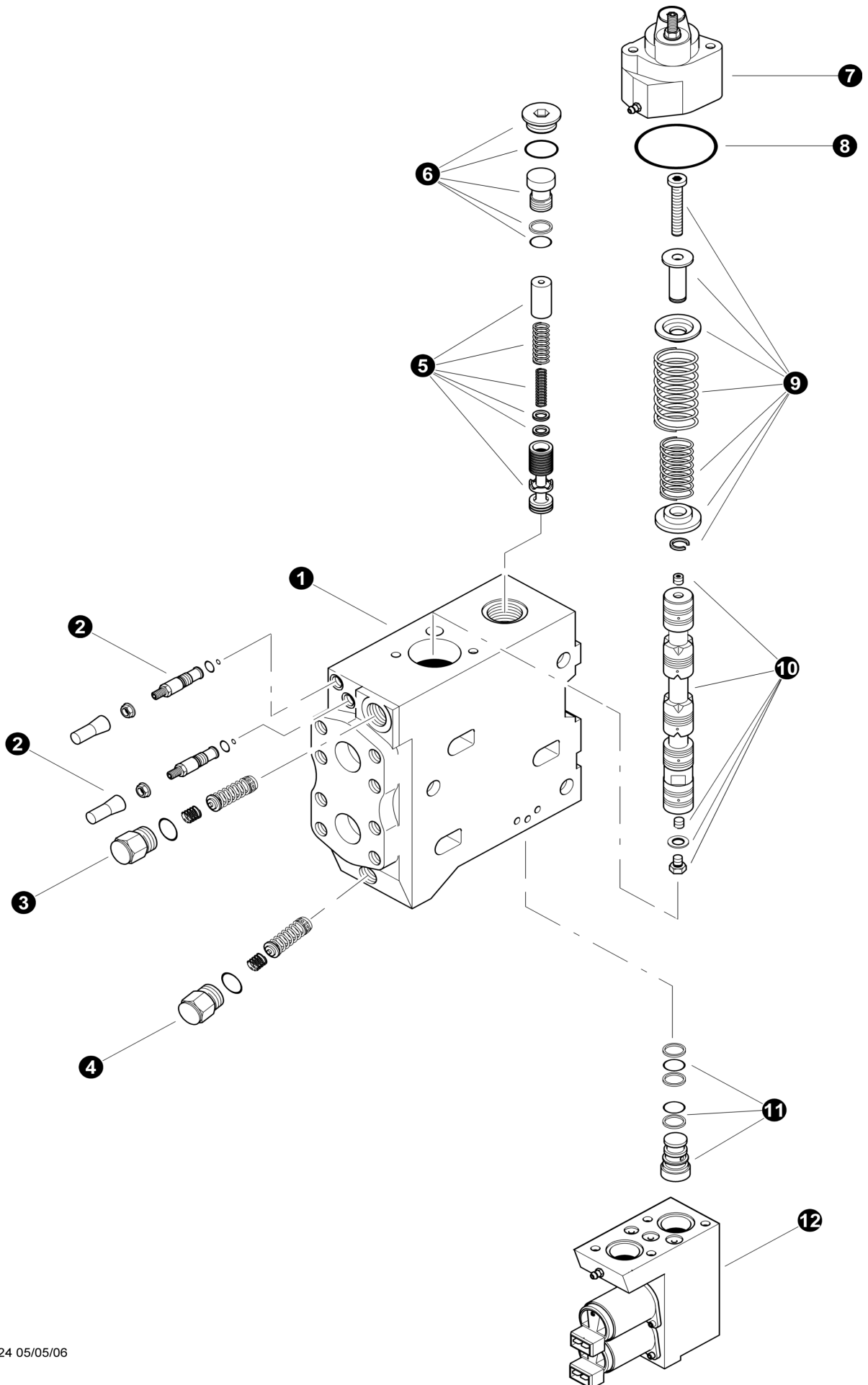
MID INLET SECTION K220 to L90

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	-LH	1	☐	MID INLET SECTION -	
2	---	1		VALVE, Counter Pressure (9120092550)	
3	---	1		VALVE, Pilot Reducer 35 bar (9120092553)	
4	---	1		PLUG	
5	---	1		PLUG	
6	---	1		FILTER, Internal Pilot (9120092004)	
7	---	1		VALVE, Check (9120092554)	
8	---	1		PLUG, pilot tank connection (9120092555)	
9	---	1		SHUTTLE, Load Sense (9120092050)	
10	---	1		VALVE, main relief 300 bar (9120029264)	

☐ Kit or Assembly - includes all items indented underneath.

NOTE #1

Each section is color coded to insure proper fit, please check color mark before ordering.



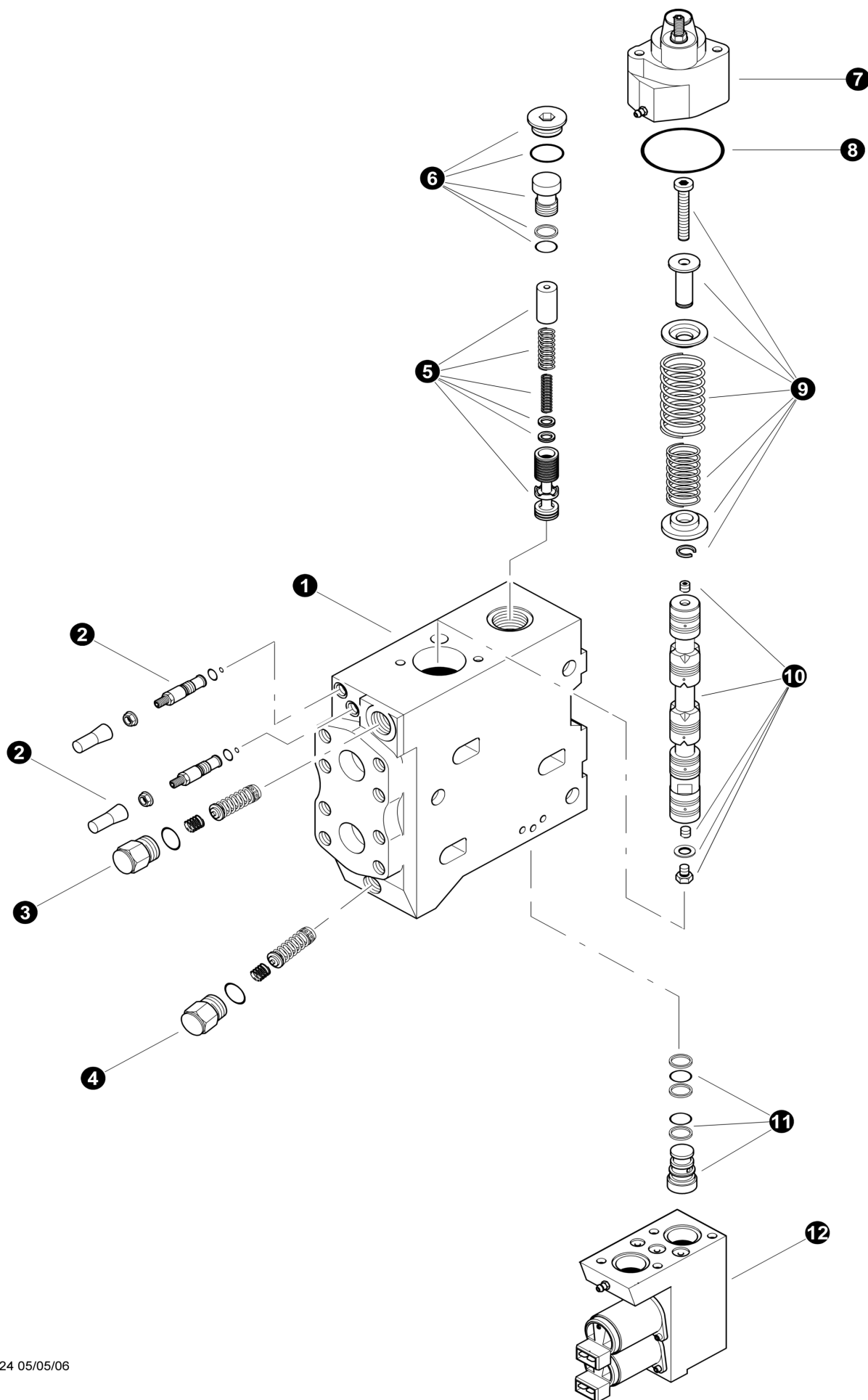
Parts T3424 05/05/06
37.5

VOAC K220 VALVE SECTION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	-LH	1	☐	VALVE SECTION - Main Boom function (L90LS-MS-US60-231)	
1	NSS	1		BODY	
2	---	2	☐	KIT, FEED REDUCER (393000K817)	
-	---	2		KIT, feed reducer seals (393000K852)	
3	---	1		CARTRIDGE, "B" port relief (300 Bar) (9120029967)	
4	---	1		CARTRIDGE, "A" port relief (300 Bar) (9120029967)	
5	---	1		KIT, "K3" COMPENSATOR, BLUE (9120092056)	
5	---	1		KIT, "K3" COMPENSATOR, GREEN (9120092060)	
5	---	1		KIT, "K3" COMPENSATOR, RED (9120092064)	
6	---	1	☐	PLUG 8, Compensator (9120092480)	
-	---	1		KIT, Plug 8 seals (9120092482)	
7	REF.	1	☞	CAP, "B"port.	LH-1
8	---	1		KIT, seals (9120092284)	
9	23423-LH	1		KIT, spool centering spring (393000K343)	
10	---	1		SPOOL, YXA	
11	---	1	☐	PLUG 6, Compensator (3764731)	
-	---	1		KIT, Seal Plug 6 (9120092355)	
12	REF	1	☞	END CAP ASSEMBLY - "A" port.	LH-1
-	-LH	1	☐	VALVE SECTION - Stick Boom function (L90LS-MS-US60-232)	
1	NSS	1		BODY	
2	---	2	☐	KIT, FEED REDUCER (393000K817)	
-	---	2		KIT, feed reducer seals (393000K852)	
3	---	1		CARTRIDGE, "B" port relief (160 Bar) (9120029960)	
4	---	1		CARTRIDGE, "A" port relief (300 Bar) (9120029967)	
5	---	1		KIT, "K1" COMPENSATOR, BLUE (9120092054)	
5	---	1		KIT, "K1" COMPENSATOR, GREEN (9120092058)	
5	---	1		KIT, "K1" COMPENSATOR, RED (9120092062)	
6	---	1	☐	PLUG 8, Compensator (9120092480)	
-	---	1		KIT, Plug 8 seals (9120092482)	
7	REF.	1	☞	CAP, "B"port.	LH-1
8	---	1		KIT, seals (9120092284)	
9	23423-LH	1		KIT, spool centering spring (393000K343)	
10	---	1		SPOOL, YRX	
11	---	1	☐	PLUG 6, Compensator (3764731)	
-	---	1		KIT, Seal Plug 6 (9120092355)	
12	REF	1	☞	END CAP ASSEMBLY - "A" port.	LH-1

☐ Kit or Assembly - includes all items indented underneath.

☞ See referenced page for component or assembly breakdown.

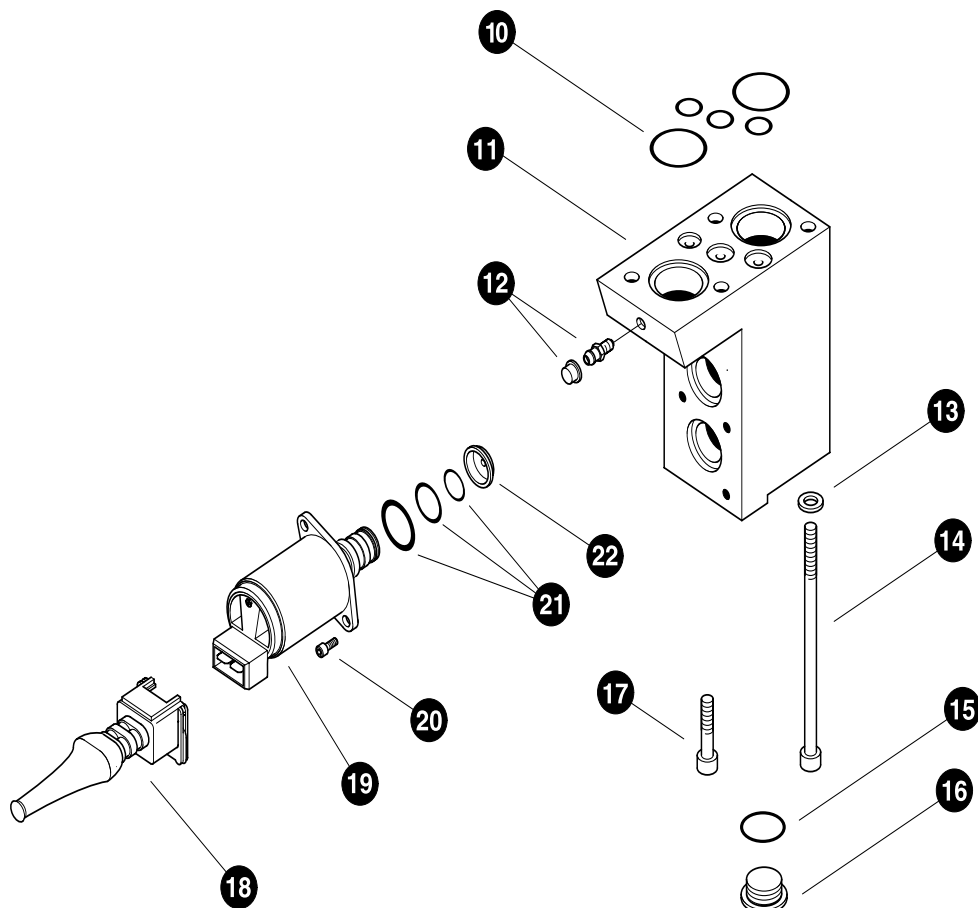
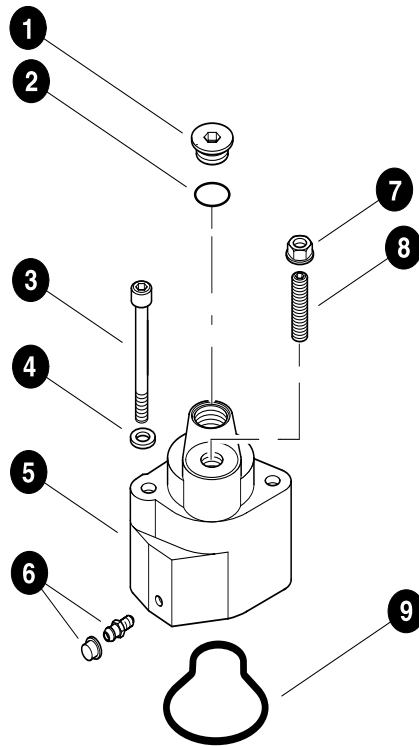


VOAC K220 VALVE SECTION (Continued...)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	-LH	1	☐	VALVE SECTION - Harvester High Flow function (L90LS-MS-US60-248)	
1	NSS	1		BODY	
2	---	2	☐	KIT, FEED REDUCER (393000K817)	
-	---	2		KIT, feed reducer seals (393000K852)	
3	---	1		CARTRIDGE, "B" port relief (330 Bar) (9120029265)	
4	---	1		CARTRIDGE, "A" port relief (330 Bar) (9120029265)	
5	---	1		KIT, "K3" COMPENSATOR, BLUE (9120092056)	
5	---	1		KIT, "K3" COMPENSATOR, GREEN (9120092060)	
5	---	1		KIT, "K3" COMPENSATOR, RED (9120092064)	
6	---	1	☐	PLUG 8, Compensator (9120092480)	
-	---	1		KIT, Plug 8 seals (9120092482)	
7	REF.	1	📖	CAP, "B"port.	LH-1
8	---	1		KIT, seals (9120092284)	
9	23423-LH	1		KIT, spool centering spring (393000K343)	
10	---	1		SPOOL, YXA	
11	---	1	☐	PLUG 6, Compensator (3764731)	
-	---	1		KIT, Seal Plug 6 (9120092355)	
12	REF	1	📖	END CAP ASSEMBLY - "A" port.	LH-1

☐ Kit or Assembly - includes all items indented underneath.

📖 See referenced page for component or assembly breakdown.



Parts T2762 07/15/03
50.00

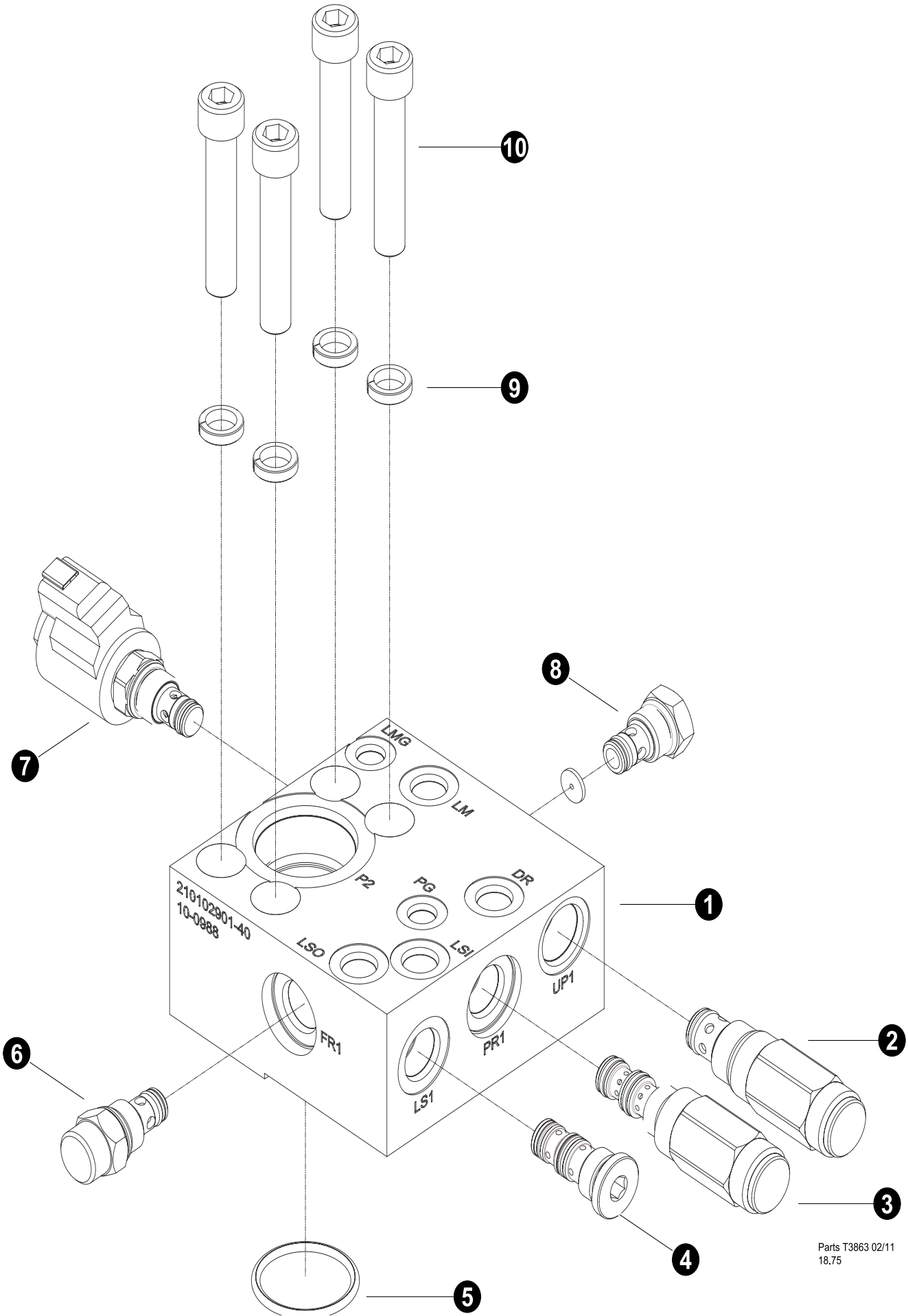
VOAC K220 VALVE END CAPS

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	51264-FH	1	☐	CUP, PILOT - K220 W / FLOW LIMIT	
1	---	1		PLUG	
2	---	1	⌘	O-RING	
3	---	2		BOLT, M6 X 35mm (3764640)	
4	---	2		WASHER, M6	
5	---	1		CAP	
6	---	1		BLEEDER	
7	---	1	⌘	NUT, seal M6 (91267109)	
8	---	1		SCREW	
9	26418-FH	1	⌘	KIT, cup seals - includes orings, seal nut and bleeder (9120092284)	
-	---	1	☐	KIT, CONTROL "A port side" K220	
10	26417-FH	1	◆	KIT, O-RING	
11	---	1		CAP	
12	---	1		BLEEDER	
13	---	4		WASHER, M6	
14	---	2		BOLT, M6 X 110mm (0211126603)	
15	---	1	◆	O-RING	
16	---	1		PLUG	
17	---	2		BOLT, M6 X 22mm (0211124803)	
18	19179-FH	2		KIT, CONNECTOR -VOAC solenoid	
-	20976-FH	2		KIT, SOLENOID VALVE 24V	
19	---	1		SOLENOID VALVE 24V	
20	---	2		SCREW, 4mm x 12mm (0211117103)	
21	---	1		KIT, SEAL -SOLENOID VALVE (393000K813)	
22	---	1		DAMPER, pilot restrictor orifice 0.6 mm (3762396) - 1 DOT	
22	---	1		DAMPER, pilot restrictor orifice 0.8 mm (3762397) - 2 DOT	
22	---	1		DAMPER, pilot restrictor orifice 1 mm (3762398) - 3 DOT	
22	---	1		DAMPER, pilot restrictor orifice 1.1 mm (3762609) - 4 DOT	
22	---	1		DAMPER, pilot restrictor orifice 3 mm (3763308)	

☐ Kit or Assembly - includes all items indented underneath.

⌘ Included in seal repair kit PN# - 26418-FH

◆ Included in seal repair kit PN# - 26417-FH

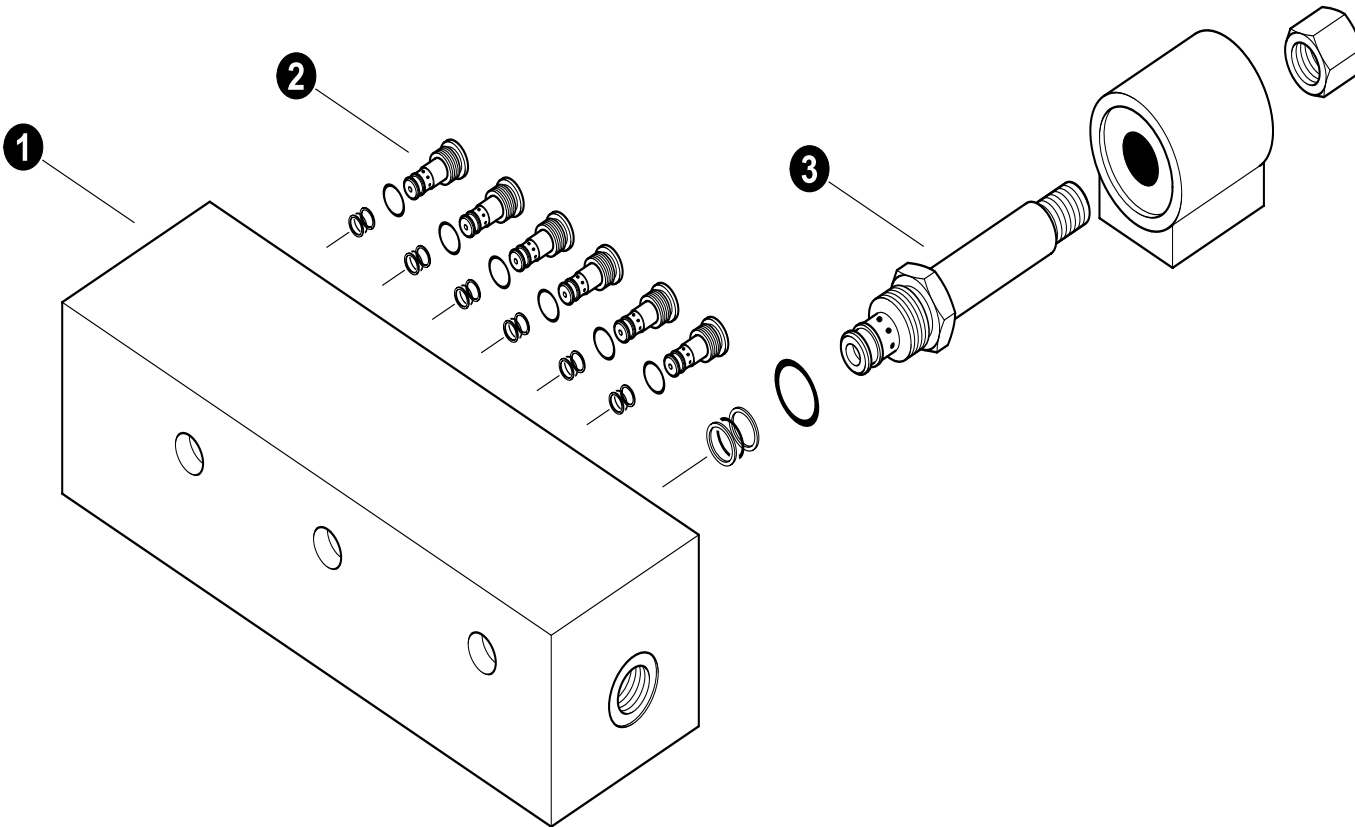


Parts T3863 02/11
18.75

UPPER MANIFOLD LOWER BLOCK SUPPLY PRESSURE

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	54264-LB	1	□	VALVE, LOWER MANIFOLD PRESSURE CONTROL	
2	-LB	1	⊙	UP1 Valve, Unloading - UP10-3005F-0-N-90-30/28	
3	-LB	1	⌘	PR1 Valve, Relief - PR58-38H-0-N-32/32.0	
4	-LB	1		LS1 Valve, Shuttle - 04.94.05.00.56.00	
5	-LB	1		O-RING - 1.25"	
6	-LB	1	◆	FR1 Valve, Flow Control - FR08-20F0-N-.25	
7	-LB	1	✱	SV1 Valve, Solenoid - SF08-20-0-P-24ERZ	
8	-LB	1	▲	CV1 Valve, Check - CV08-20-0-N-25	
-	-LB	1		OR1 Orifice - 7051078	
9	-LB	4		LOCK WASHER - 1/2"	
10	-LB	4		ALLEN BOLT - 1/2" 13 UNC X 2.75"	

- Kit or Assembly - includes all items indented underneath.
- ⌘ Seal Repair Kit (SK10-3N-BM)
- ◆ Seal Repair Kit (SK08-2X-M)
- ⊙ Seal Repair Kit (SK10-2N-B)
- ▲ Seal Repair Kit (SK08-2N-T)
- ✱ Seal Repair Kit (SK08-2P-T)



Parts T3882 09/19/2011
25.00

UPPER MANIFOLD LOWER BLOCK SUPPLY PRESSURE

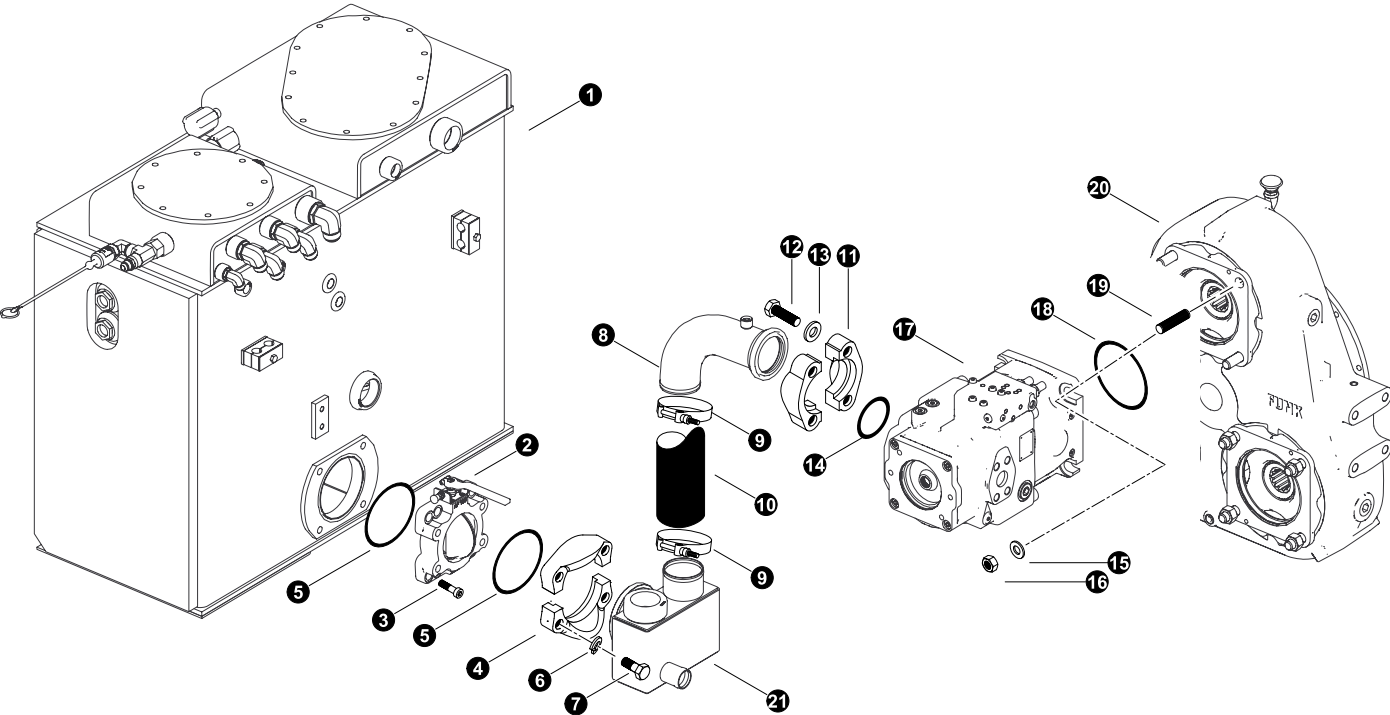
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	52912-LH	1	□	VALVE, COMBO DRAIN	
2	-LH	6	⌘	Shuttle - Drain (CV04-20-0-N-05)	
3	-LH	1	◆	Valve, Solenoid - (SF08-23-0-P-24ERZ)	

- Kit or Assembly - includes all items indented underneath.
- ⌘ Seal Repair Kit (SK04-2X-T)
- ◆ Seal Repair Kit (SK08-2P-T)

[illegible]

Section LH-2

Loader Hydraulics - Supply, Tank, Load sense, and Drain Circuits



T4652 5/15
10/25

IMPLEMENT PUMP INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		HYDRAULIC TANK ASSEMBLY	UP-2
2	54786-LH	1		VALVE, SHUT OFF - BUTTERFLY (4")	
3	23095-LH	4		BOLT, ALLEN HEAD - .625" x 2"	
4	51625-LH	1		KIT, FLANGE - SUCTION TUBE (4")	
5		1		O-RING - SUCTION TUBE (4")	
6	10721-LH	4		WASHER, LOCK - .625"	
7	-LH	4		M16X2.0X50MM (83514A)	
8	46265-LH	1		TUBE, SUCTION - IMP PUMP / C SERIES	
-	55615-LH	1		FITTING, ADAPTOR - BLEED - SUCTION TUBE	
9	15613-FF	2		CLAMP, STRAP BAND - 3.5"	
10	-LH	1		HOSE ASSEMBLY - 2010.5 48-0-0	
11	22639-LH	1		KIT, split flange - 3" (Code 61)	
12	15562	4		BOLT - 5/8" x 2"	
13	10721-LH	4		WASHER, LOCK - .625"	
14	18695-LH	1		O-RING - 3" SF	
15	15550-LH	4		WASHER, SAE flat - 3/4	
16	10776-LH	4		NUT, hex - 3/4"	
17	REF	1		IMPLEMENT PUMP.	LH-1
18	15442-2-LH	1		O-RING, PUMP DRIVE PILOT	
19	40281351-FF	4		STUD, "D" Mount	
20	REF	1		PUMP DRIVE GEARBOX	EE-4
21	46200-LH	1		WELDMENT, SUCTION TUBE, C-MODEL	



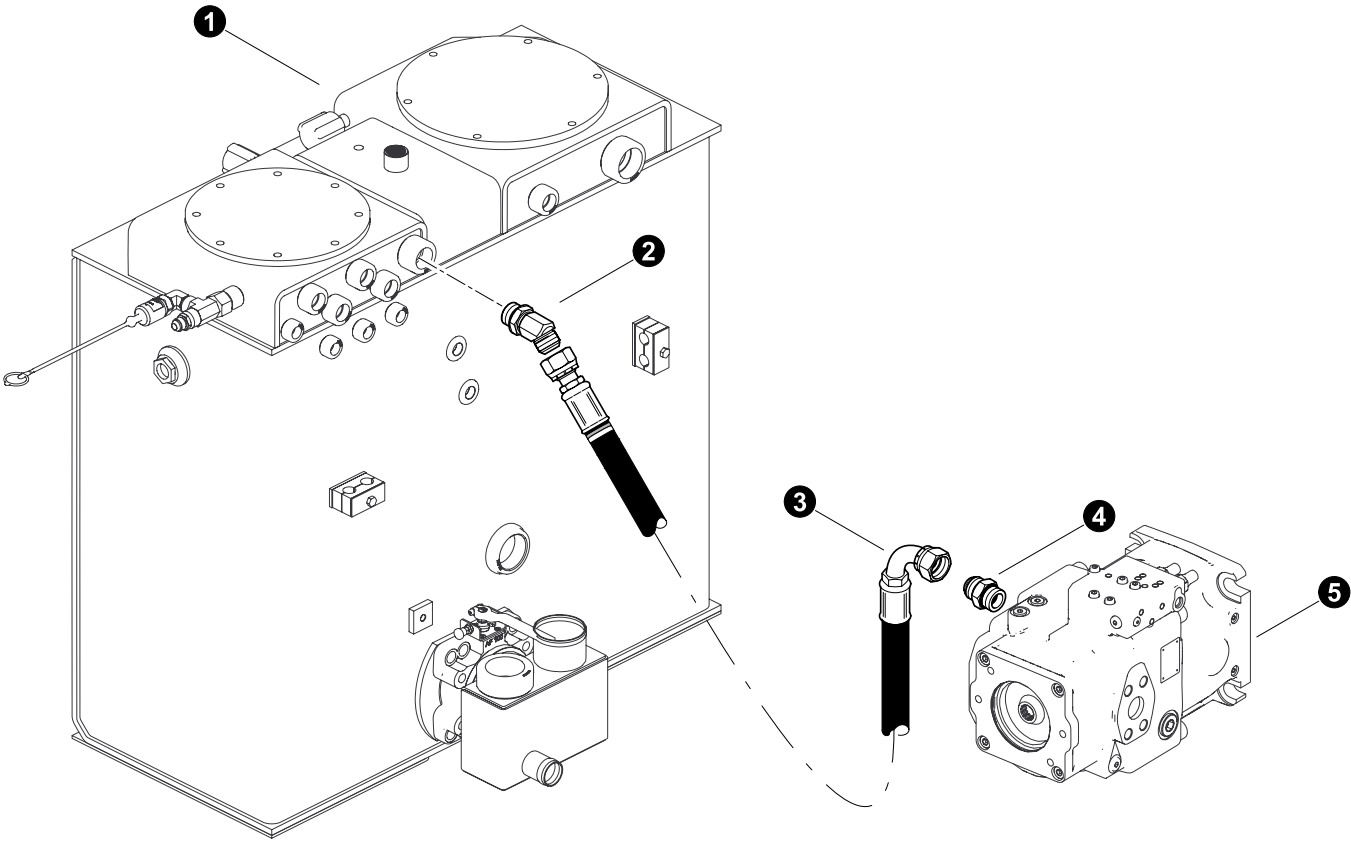
See referenced page for component or assembly breakdown.



Bulk material - order length required in feet or meters.



Kit or Assembly - includes all items indented underneath.



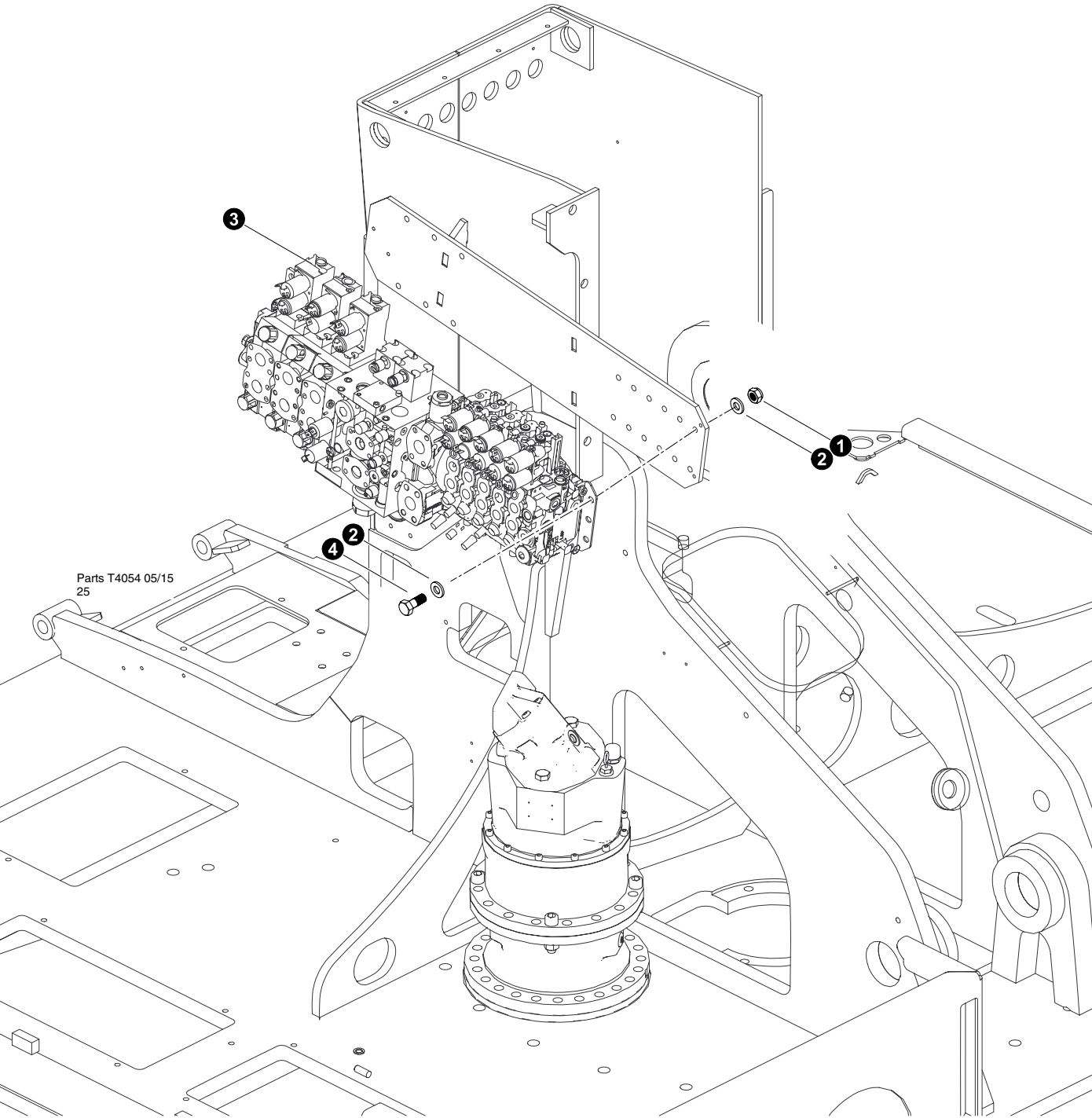
Parts T4053 05/15
18.75

IMPLEMENT PUMP CASE DRAIN LINE

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		HYDRAULIC TANK	UP-2
2	15474-LH	2		ELBOW, 45 - 6802-12	
3	-LH	1		HOSE ASSEMBLY - 2030-12-12JS-12J9 (<i>Implement pump case drain port to hydraulic tank</i>)	
4	11324-LH	1		CONNECTOR, STR - 6400-12	
5	REF.	1		IMPLEMENT PUMP.	LH-1



See referenced page for component or assembly breakdown.

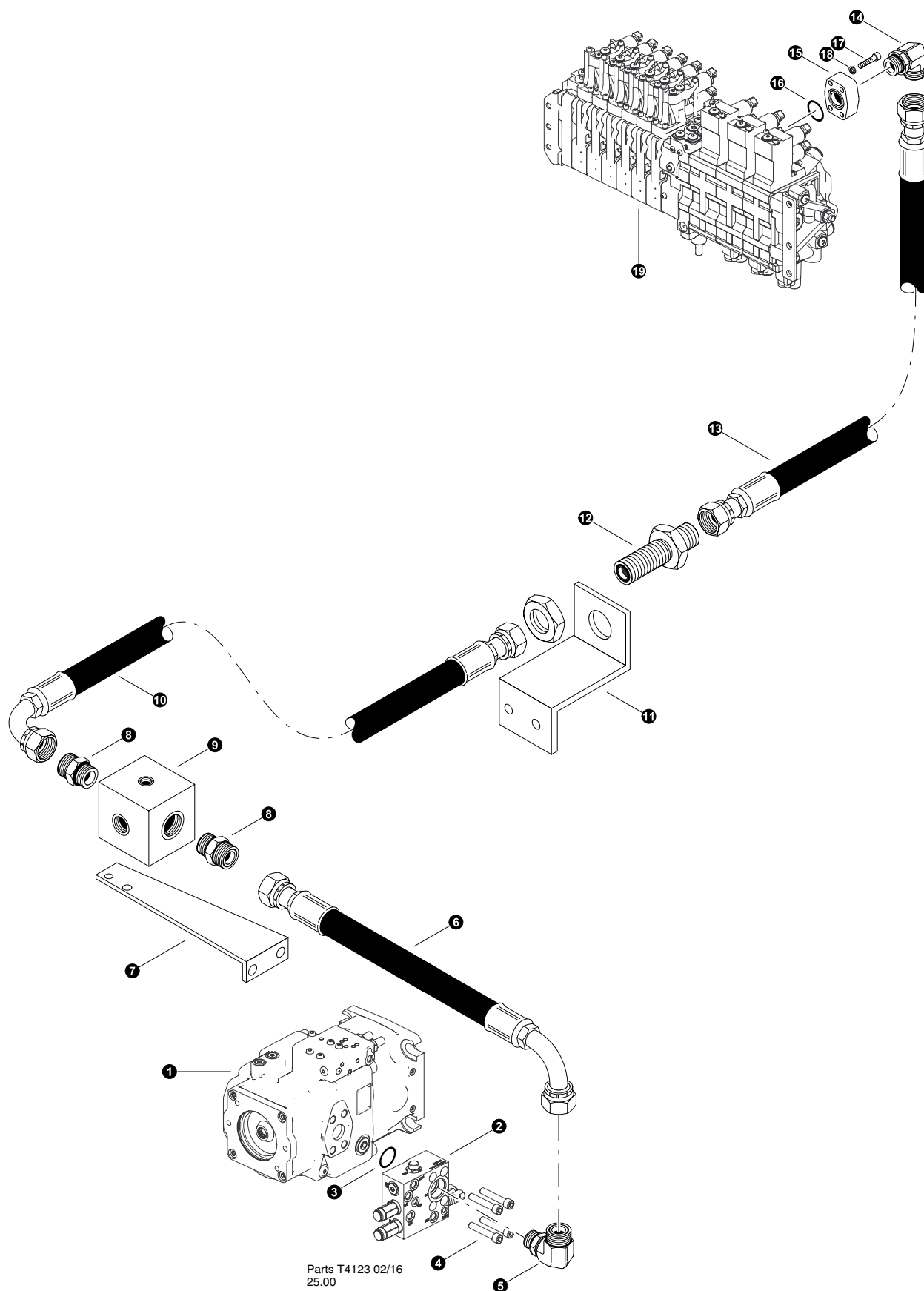


MAIN CONTROL VALVE MOUNTING

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	10813-LH	4		NUT, lock 3/8"	
2	10802-LH	8		WASHER, FLAT - .375"	
3	REF	1		MAIN CONTROL VALVE	LH-1
4	15507-LH	4		BOLT, 3/8 X 1 1/4"	



See referenced page for component or assembly breakdown.



IMPLEMENT PUMP PRESSURE LINE TO MAIN CONTROL VALVE

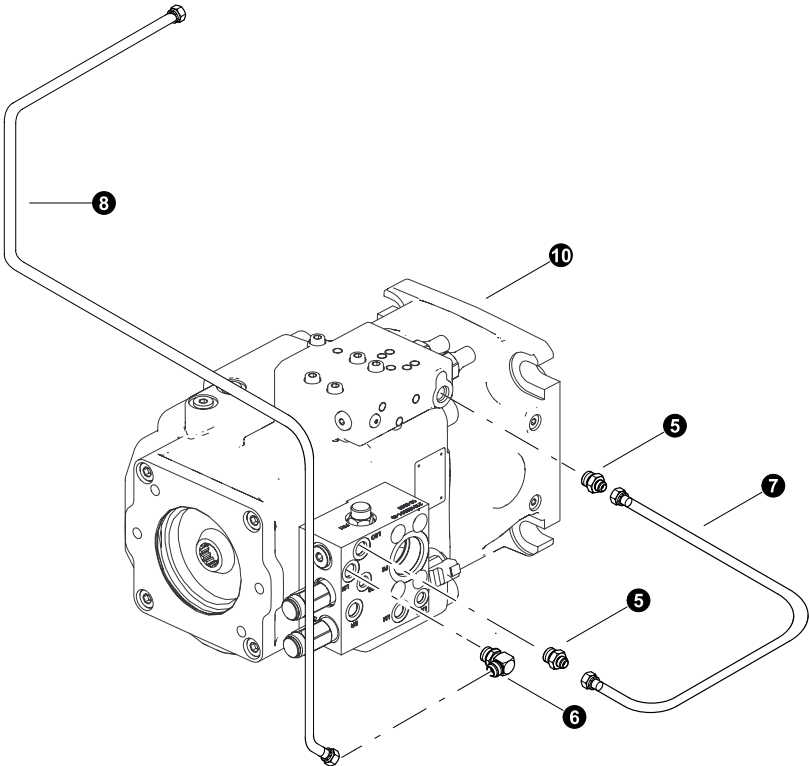
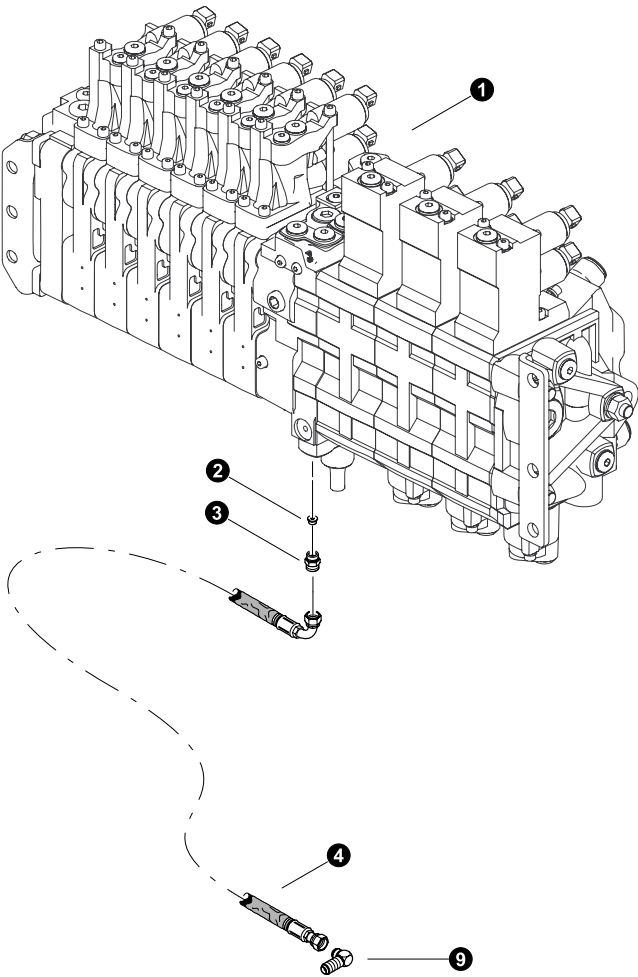
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		IMPLEMENT PUMP.	LH-1
2	54264-LB	1		VALVE, LOWER MANIFOLD PRESSURE CONTROL	LH-1
3	-	1		O-RING - 1.25"	
4	-	4		ALLEN BOLT - 1/2" 13 UNC X 2.75"	
5	17055-LH	1		ELBOW, 90 - FF1868T-2020S	
6	55561-LH	1		HOSE ASSEMBLY - 4016-20-20OS-20OL9 (<i>Pump Pressure Bulkhead to Implement Pump Pressure Port</i>)	
7	46963-LH	1		BRACKET, IMPLEMENT PSI - C SERIES	
8	17344-LH	2		CONNECTOR, STR - FF1852T-2020S	
9	51450-LH	1		MANIFOLD, RETURN CHECK	
10	-LH	1		HOSE ASSEMBLY - 5042.5-20-20OS-20O9 (<i>Pump Pressure Bulkhead to Pump Pressure Bulkhead</i>)	
11	46296-LH	1		PLATE, IMPLEMENT PSI BULKHEAD	
12	54743-LH	1		FITTING, 20 WLO-WLNL-S	
13	-LH	1		HOSE ASSEMBLY - 4030-20-20OS-20O4 (<i>Pump Pressure Bulkhead to main control valve pressure inlet port "P1"</i>)	
14	50470-LH	1		ELBOW, 90 - 849-TT0-16X20	
15	18397-LH	1		CONNECTOR, FLANGE PAD - 1" C 62	
16	15377-LH	1		O-RING - 1"	
17	18988-LH	4		BOLT, ALLEN HEAD - 12MM-1.75P X 45MM	
18	-	4		WASHER, lock	
19	REF.	1		MAIN CONTROL VALVE	LH-1



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

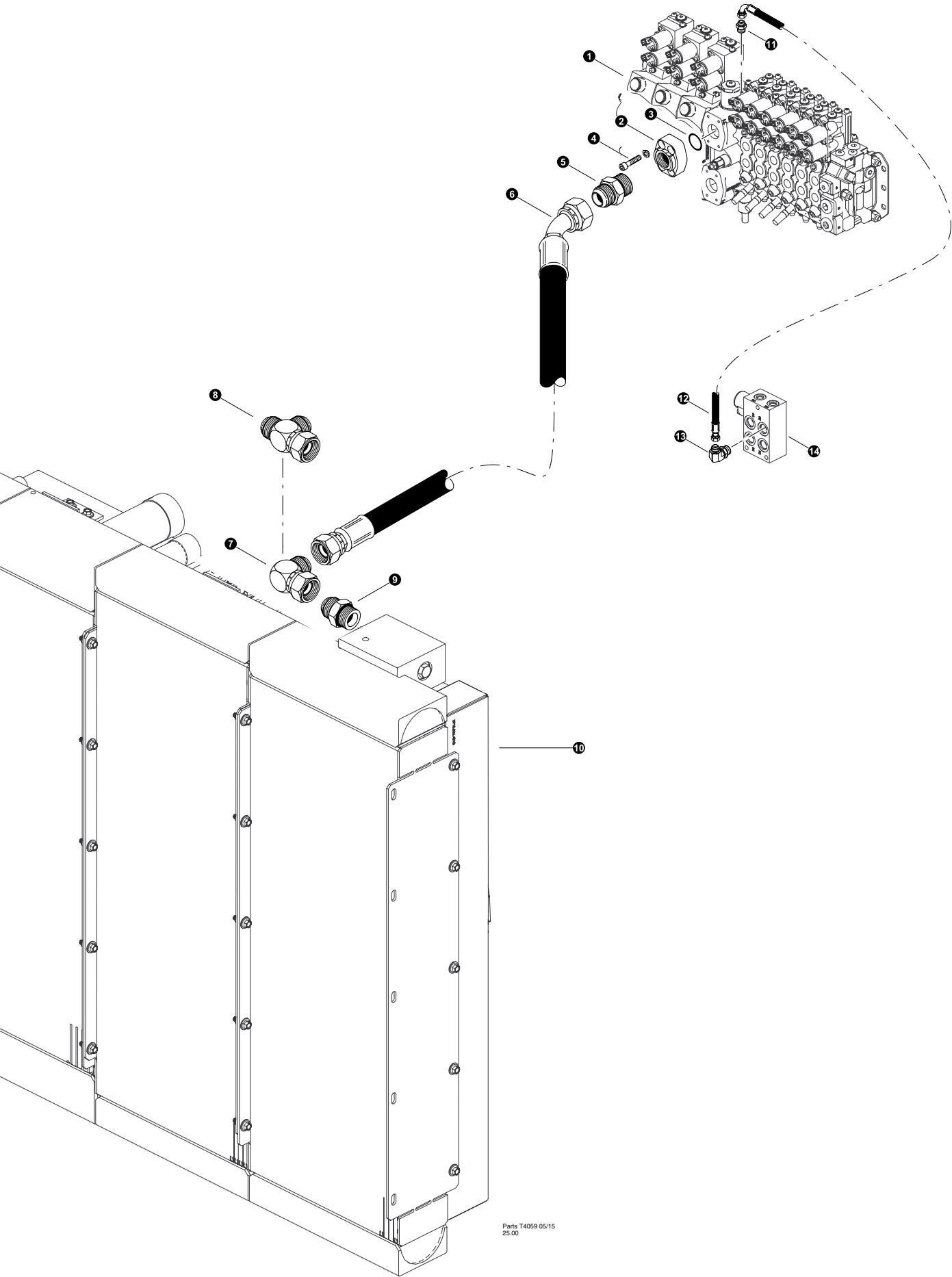


MAIN CONTROL VALVE LOAD SENSE LINE

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MAIN CONTROL VALVE	LH-1
2	15488-LH	1		CONNECTOR, STR - 6400-6 (<i>Tapped for 0.028" orifice</i>)	
3	18503-LH	1		ORIFICE - .028"	
4	-LH	1		HOSE ASSEMBLY - 2090-06-060S-0609-W (<i>Control Valve load sense "PL" port to Implement Pump controller</i>)	
5	15488-LH	2		CONNECTOR, STR - 6400-6	
6	15480-LH	1		ELBOW, 90 - 6801-6	
7	55237-LH	1		TUBELINE, IMP P BLOCK LSO / IMP LS C-SER	
8	55235-LH	1		TUBELINE, IMP PUMP LS1 / JIC BULKHEAD C-	
9	55347-LH	1		FITTING, ELBOW - BULKHEAD 6 WETX-WLN-S	
10	REF.	1		IMPLEMENT PUMP.	LH-1



See referenced page for component or assembly breakdown.



MAIN CONTROL VALVE RETURN LINE AND DRAIN

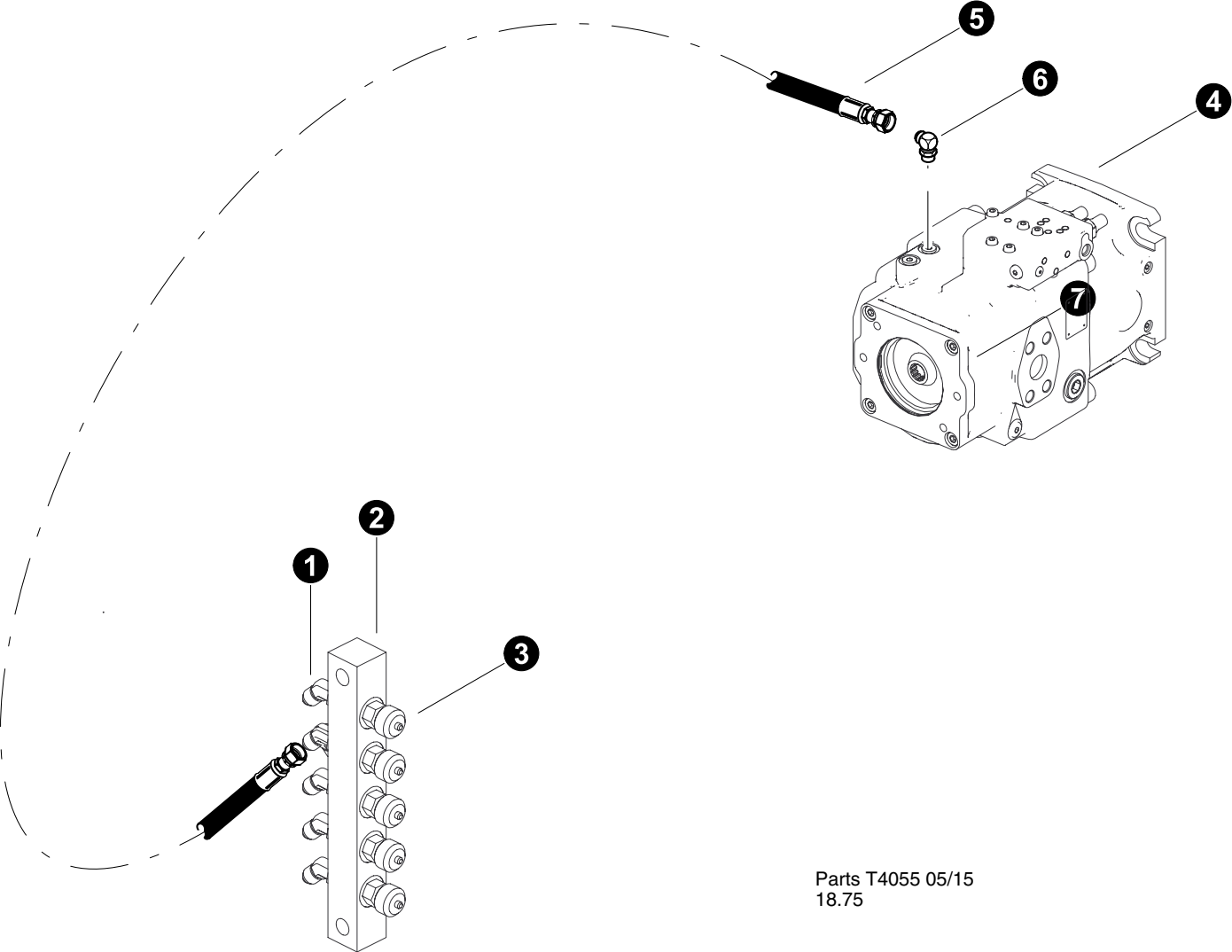
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MAIN CONTROL VALVE	LH-1
2	17909-LH	1		CONNECTOR, FLANGE PAD-W46K-20-20 CODE 61	
3	15378-LH	1		O-RING - 1.25" SF (CODE 61/62)	
4	-LH	4		BOLT, ALLEN HEAD - 10MM	
5	53616-LH	1		FITTING, STR - 24 X 20 - RETURN TUBE	
6	-LH	1		HOSE ASSEMBLY - 2023-24-24JS-20J4 (<i>Cooler to main control valve tank port "T1"</i>)	
7	54714-LH	1		ELBOW, 90 SWIVEL 24C6X-S (24 JICMF)	
8	53183-LH	1		FITTING, SWIVEL NUT RUN TEE #24 (DISC SAW OPTION)	
9	22319-LH	1		CONNECTOR, STR - THERMAL BYPASS (GT)	
10	REF	1		OIL COOLER BREAKDOWN	UP-3



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Parts T4055 05/15
18.75

IMPLEMENT PUMP GAUGE PORT

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	51884-LH	1	ELBOW, 45 - (4 V50X-S)	
2	22287-LH	1	MANIFOLD, PRESSURE CHECK - 5 PORT	
3	16037-LH	1	Gauge Tap 1/4" Sae	
4	REF.	1	 IMPLEMENT PUMP.....	LH-1
5	-LH	1	HOSE ASSEMBLY - 7046-04-04JS-04JS (Implement Pump to pressure check manifold)	
6	51931-LH	1	ELBOW, 90 - 4-6 C50X-S (JIC)	



See referenced page for component or assembly breakdown.



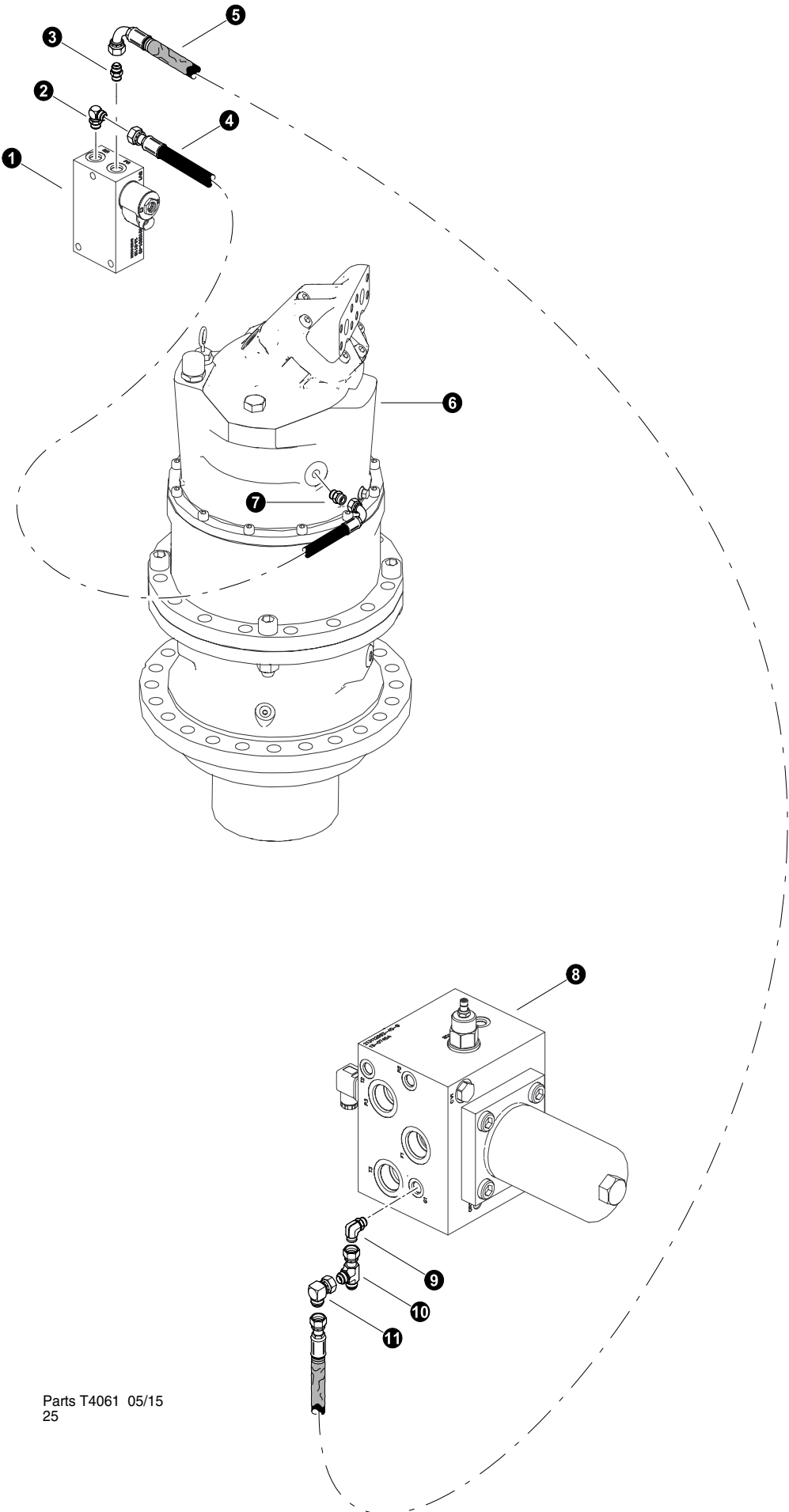
Kit or Assembly - includes all items indented underneath.

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Section LH-3

Loader Hydraulics - Swing Motor Hydraulics



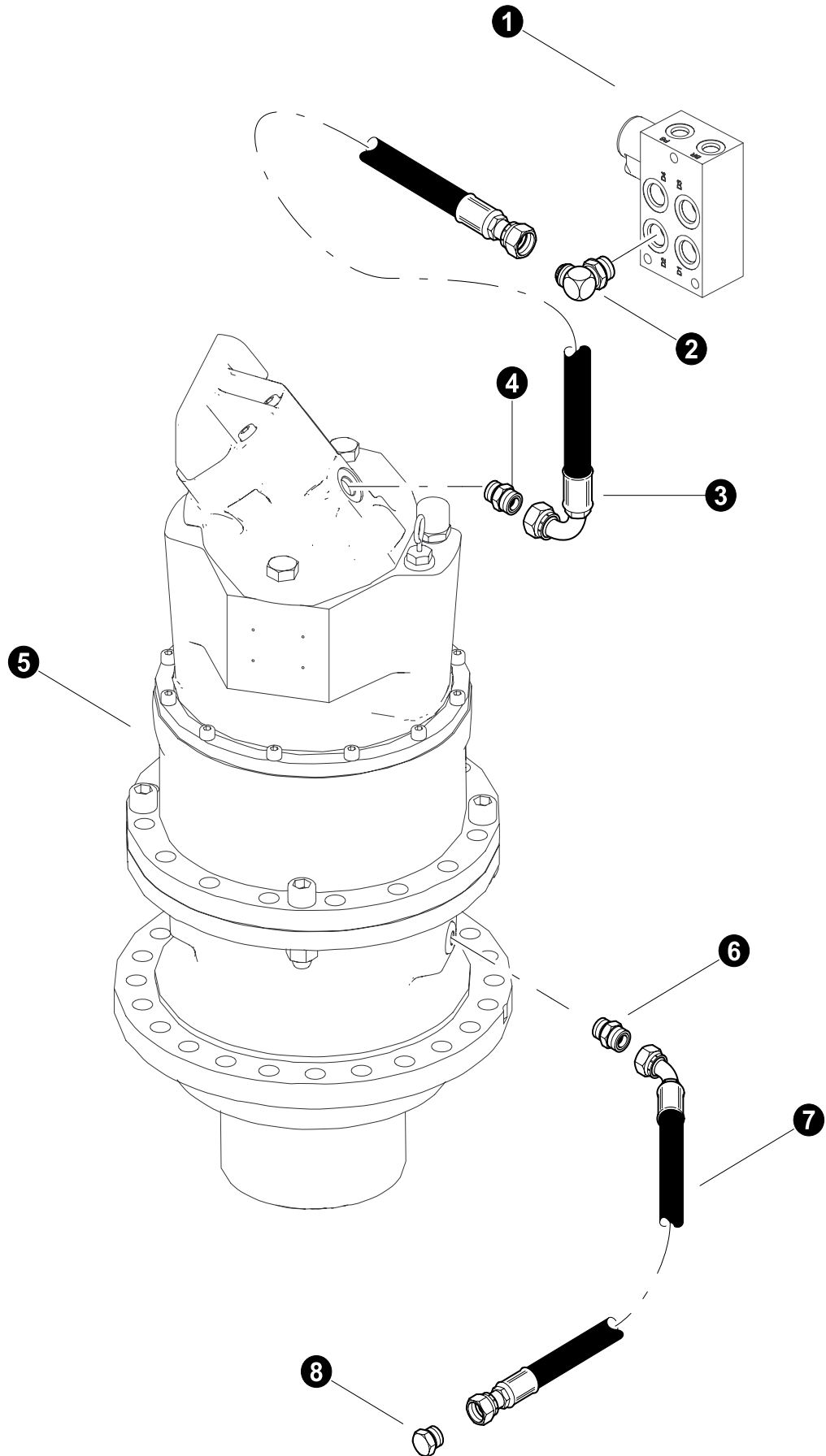
Parts T4061 05/15
25

SWING MOTOR HYDRAULICS (swing gearbox brake release)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MANIFOLD, CASE DRAIN/SWING LOCK	LH-3
2	51931-LH	1		ELBOW, 90 - 4-6 C50X-S (JIC)	
3	54809-LH	1		CONNECTOR, STR - 4 JIC x -6 ORB	
4	-LH	1		HOSE ASSEMBLY - 2024-04-04JS-0409 (<i>PS port to G1 port charge valve</i>)	
5	-LH	1		HOSE ASSEMBLY - 2092-04-040S-0409 (<i>swing motor brake relase port to BR port</i>)	
6	REF.	1		MOTOR/GEARBOX - SWING	LH-3
7	19469-LH	1		CONNECTOR, STR METRIC - 4M12F82EDMLO-S	
8	REF.	1		CHARGE VALVE / FILTER ASSEMBLY	DH-3
9	51931-DH	1		ELBOW, 90 - 4-6 C50X-S (JIC)	
10	55677-DH	1		FITTING, 4 R6X-S	
11	17023-DH	1		ELBOW, 90 SWIVEL - 6500-4	



See referenced page for component or assembly breakdown.



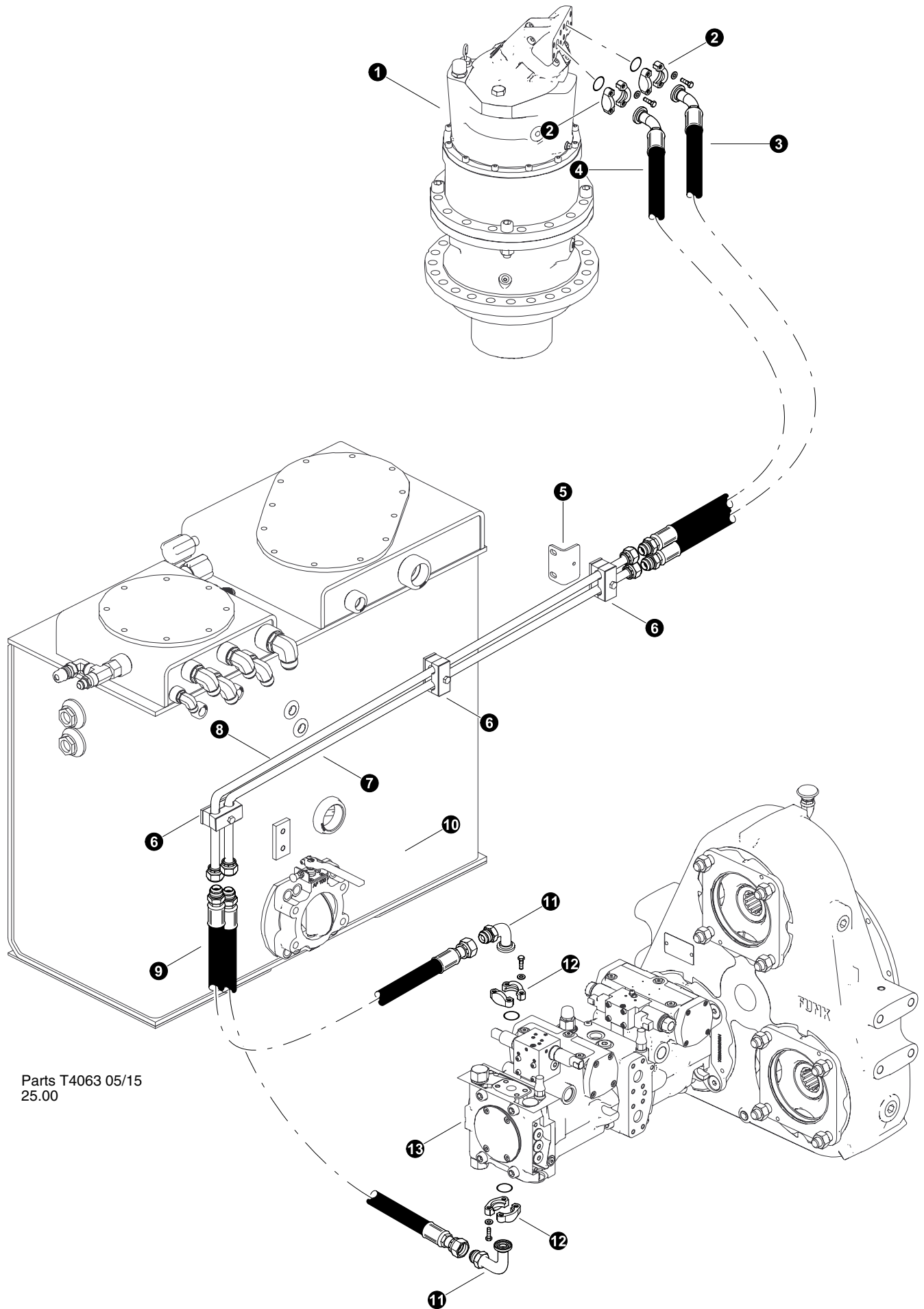
Parts T4062 05/15
25.00

SWING MOTOR HYDRAULICS (swing motor drain)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MANIFOLD, CASE DRAIN/SWING LOCK	LH-3
2	15481-LH	1		ELBOW, 90 - 6801-8	
3	-LH	1		HOSE ASSEMBLY - 2020-08-08JS-0809 (swing motor case drain to drain manifold D2)	
4	24182-LH	1		CONNECTOR, STR - 6002-08-8BSPP	
5	REF.	1		MOTOR/GEARBOX - SWING	LH-3
6	52493-LH	1		CONNECTOR, MALE ISO 6149	
7	-LH	1		HOSE ASSEMBLY - 2028-08-08OS-0804 (swing motor gearbox drain)	
8	16032-LH	1		PLUG - FF9767-08S	



See referenced page for component or assembly breakdown.



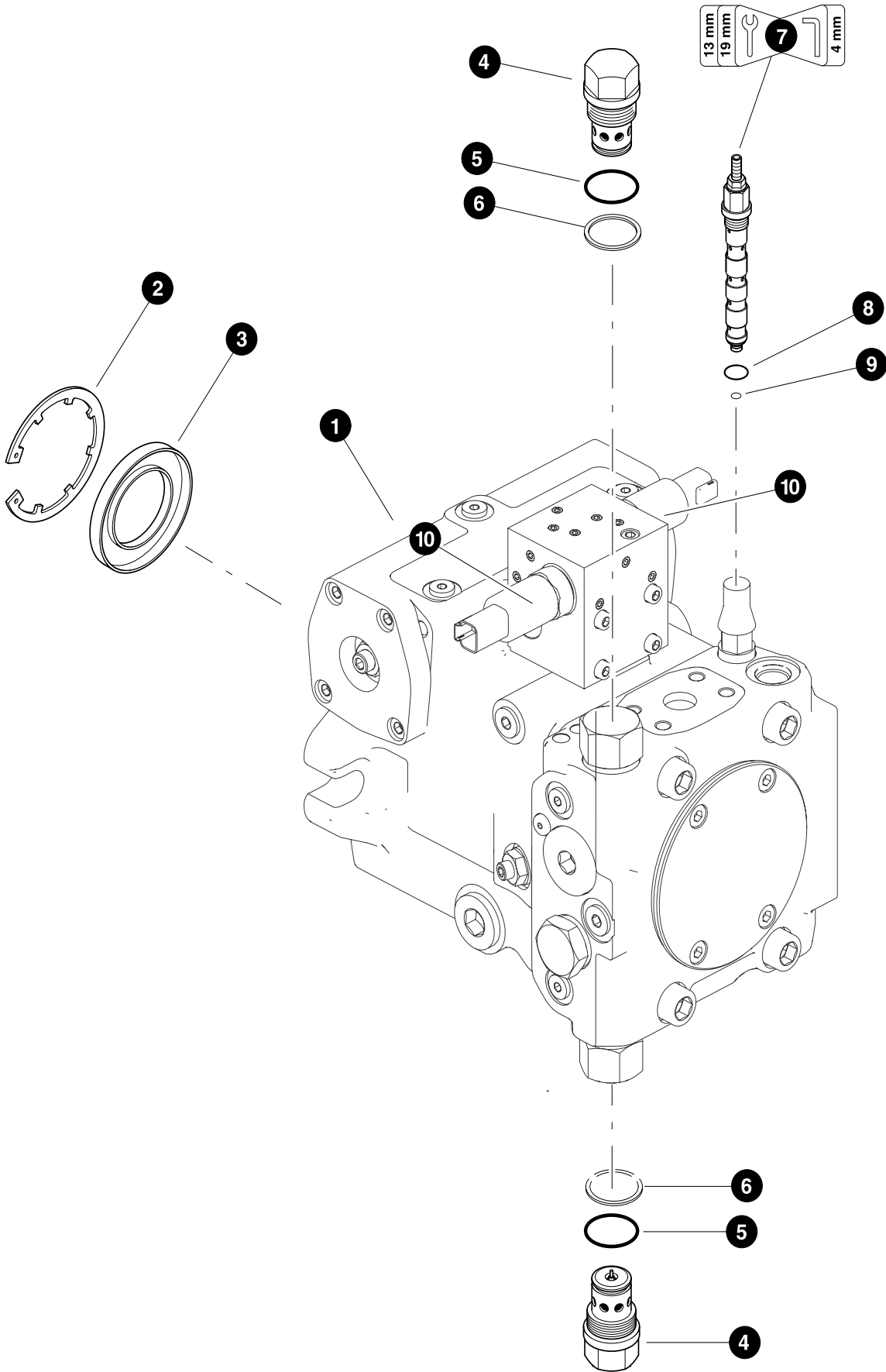
Parts T4063 05/15
25.00

SWING MOTOR HYDRAULICS (Swing Motor to Valve Connection)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MOTOR/GEARBOX - SWING	LH-3
2	16660-LH	2		KIT, SPLIT FLANGE - .75 (CODE 62)	
3	-LH	1		HOSE ASSEMBLY - 4033-12-12MJ-12PH4 (<i>Swing Motor to tubeline</i>)	
4	-LH	1		HOSE ASSEMBLY - 4031-12-12MJ-12PH4 (<i>Swing Motor to tubeline</i>)	
5	46366-LH	1		BRACKET, TUBELINE - SWING MOTOR	
6	55320-LH	3		CLAMP, TUBELINE	
7	55229-LH	1		TUBELINE, SWING HYD PUMP	
8	55178-LH	1		TUBELINE, SWING HYD PUMP	
9	-LH	1		HOSE ASSEMBLY - 4025.5-12-12MJ-12J9 (<i>Swing Pump to tubeline</i>)	
10	-LH	1		HOSE ASSEMBLY - 4035-12-12MJ-12J9 (<i>Swing Pump to tubeline</i>)	
11	55427-LH	2		FITTING, ELBOW - 6NH3-12-12	
12	16660-LH	2		KIT, SPLIT FLANGE - .75 (CODE 62)	
13	REF.	1		SWING PUMP	LH-3



See referenced page for component or assembly breakdown.



HYDROSTATIC SWING PUMP (Rexroth 56cc)

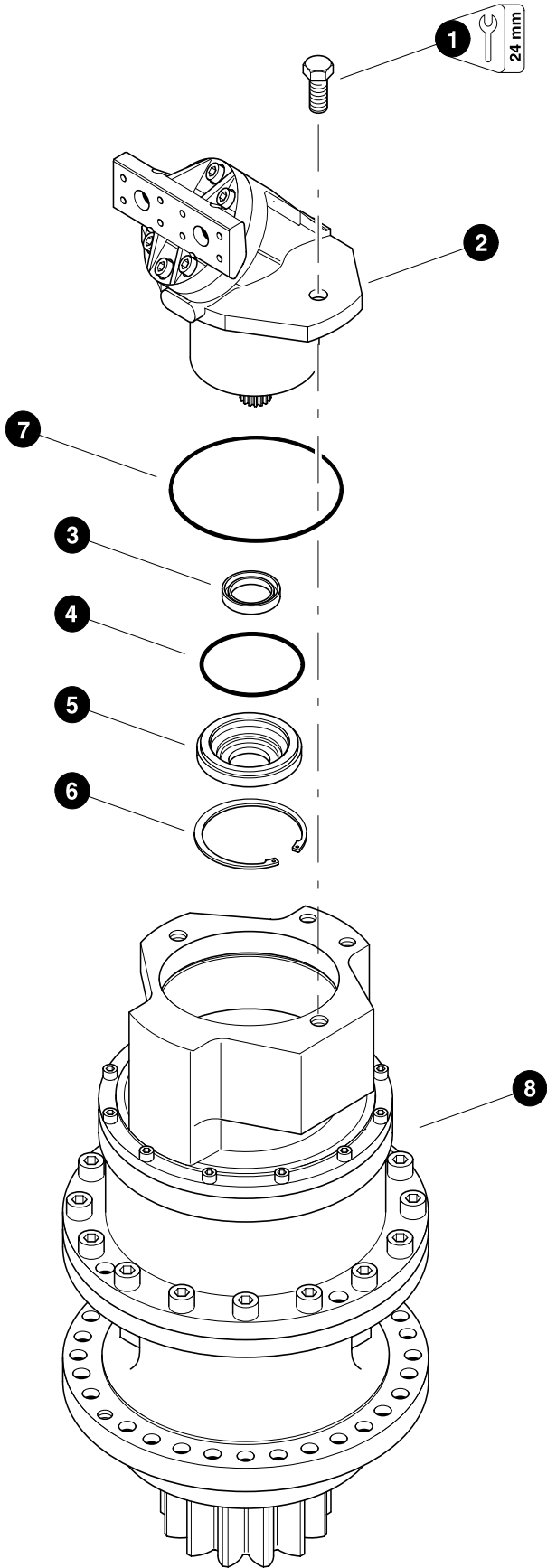
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	54560-LH	1	☐	PUMP, HYDROSTATIC - SWING	
2	R902600000	1		RETAINING RING	
3	R902601649	1		SHAFT SEAL RING	
4	R902016386	2		PRESSURE RELIEF VALVE	
5	R909831768	2		BACK-UP RING	
6	R909831768	2		BACK-UP RING	
7	R909446763	1		PRESSURE OVERRIDE VALVE	
8	R909083752	1		O-RING	
9	R909086380	1		O-RING	
10	R901121566	2		PRESSURE REDUCING VALVE	

☐ Kit or Assembly - includes all items indented underneath.

⌘ Included in seal repair kit, PN# -LH.

Note:

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



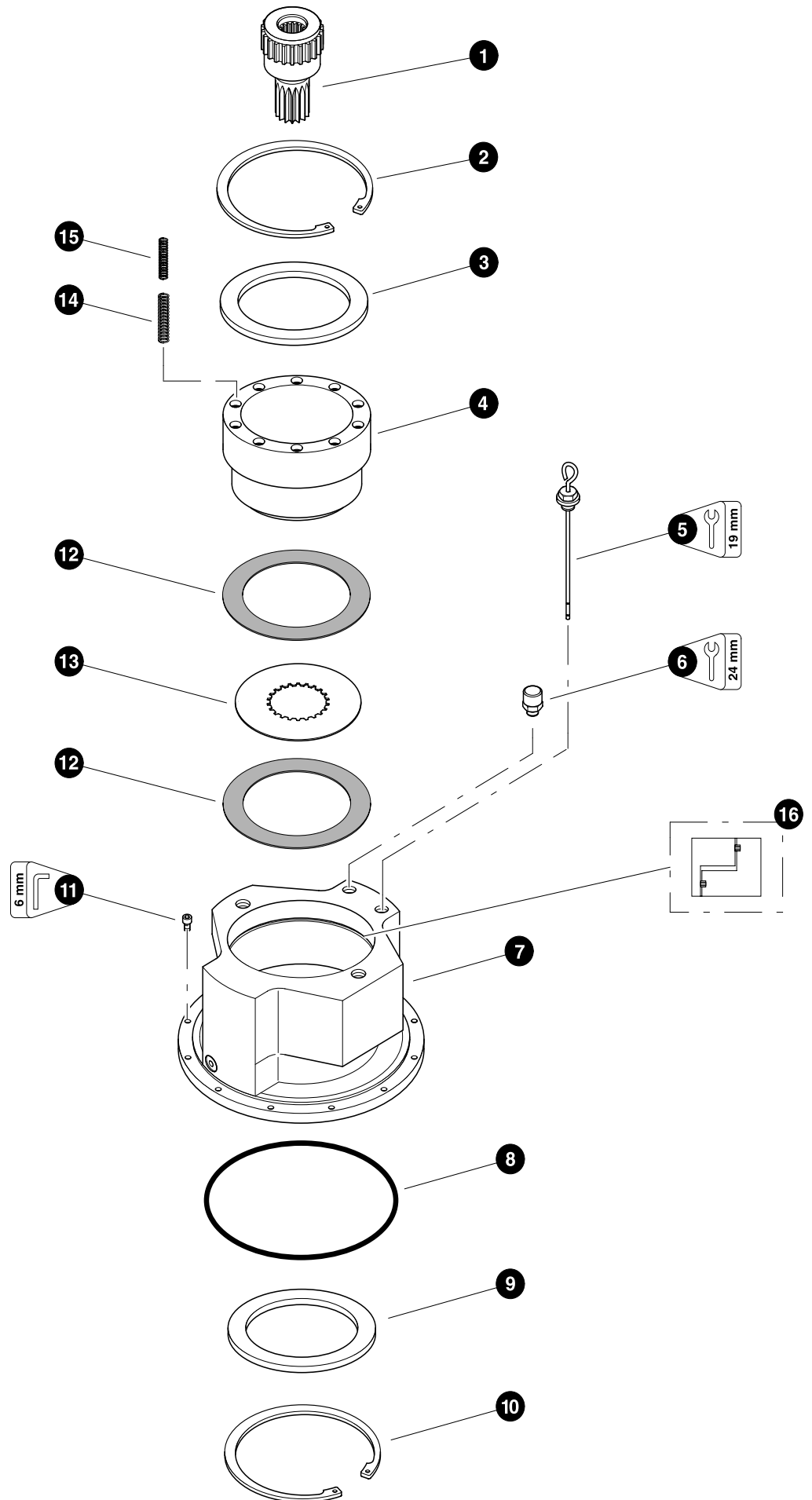
SWING MOTOR HYDRAULICS (swing motor installation)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
--	52745-LH	1	☐	MOTOR, SWING - ECCENTRIC L&S W/56 MOTOR	
1	20661-LH	1		BOLT - 16mm-2.0P x 35mm	
2	17238-LH	1	☐	MOTOR, hydraulic - Rexroth A2FE56 cc	
3	21576-LH	1		SEAL, shaft - 45cc	
	51638-LH	1		SEAL, shaft - 56cc	
4	21577-LH	1		O-RING, front cover - 45cc	
	51639-LH	1		O-RING, front cover - 56cc	
5	21578-LH	1		COVER, front	
6	21579-LH	1		RING, seal retaining	
7	21580-LH	1		O-RING, motor pilot	
8	-LH	1		GEARBOX - Lohmann	

☐ Kit or Assembly - includes all items indented underneath.

Note:

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



Parts 00626 11/10/2000
25.00

SWING MOTOR HYDRAULICS (swing gearbox brake)

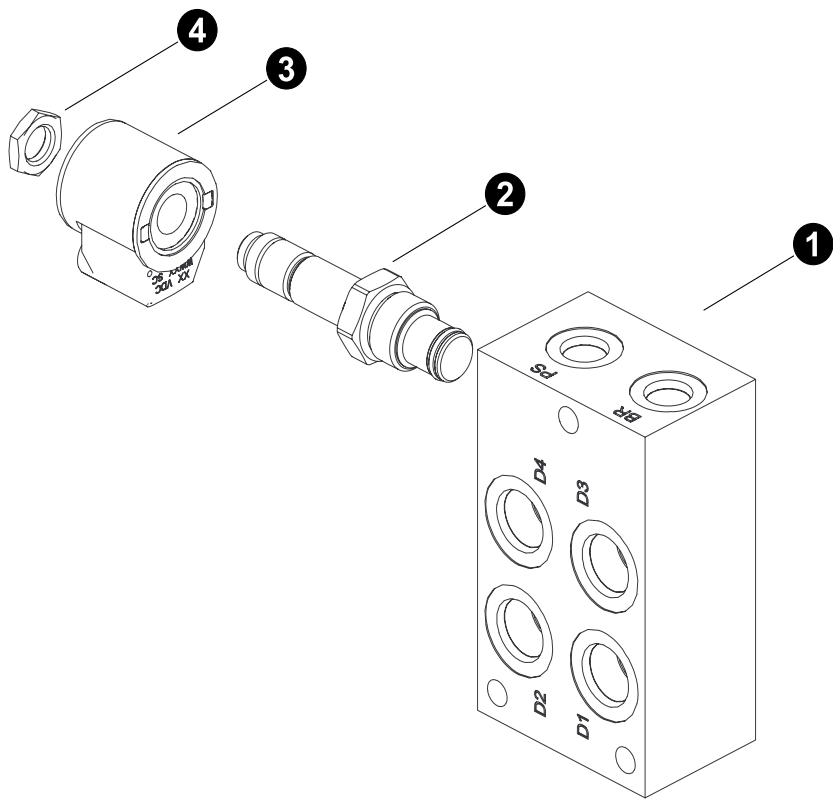
REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	54394-LH	1		GEARBOX - Lohmann ECCENTRIC	
1	21565-LH	1		SHAFT, brake	
2	21566-LH	1		RING, snap - upper brake	
3	21567-LH	1		PLATE, back-up - upper brake	
4	21568-LH	1		PISTON, brake	
5	21569-LH	1	☐	DIPSTICK	
	21571-LH	1		RING, seal	
6	21570-LH	1	☐	BREATHER	
	21571-LH	1		RING, seal	
7	NSS	1		HOUSING, brake	
8	21572-LH	1		O-RING, brake housing	
9	21573-LH	1		PLATE, back-up - lower brake	
10	21574-LH	1		RING, snap - lower brake	
11	21575-LH	12		BOLT, allen head - 8mm x 25mm	
12	NSS	5	⌘	DISC, brake	
13	NSS	4	⌘	DISC, spacer	
14	NSS	10	⌘	SPRING, outer	
15	NSS	10	⌘	SPRING, inner	
--	21418-LH	1		KIT, repair - brake disc	

☐ Kit or Assembly - includes all items indented underneath.

⌘ Included in disc brake kit PN# 20788-UP.

Note:

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



Parts T4064 05/15
25.00

SWING BRAKE/DRAIN MANIFOLD

REF	PART #	QTY	DESCRIPTION	SEE SECTION
-	55259-LH	1	MANIFOLD, CASE DRAIN/SWING LOCK - C	
1	-LH	1	MANIFOLD, (214010901-40-A)	
2	-LH	1	CARTRIDGE VALVE, (S08-30)	
3	-LH	1	COIL, (4303424)	
4	-LH	1	NUT, (7004400)	
-	SK08-3X-MM	1	SEAL KIT FOR S08-30 VALVE	

Note:

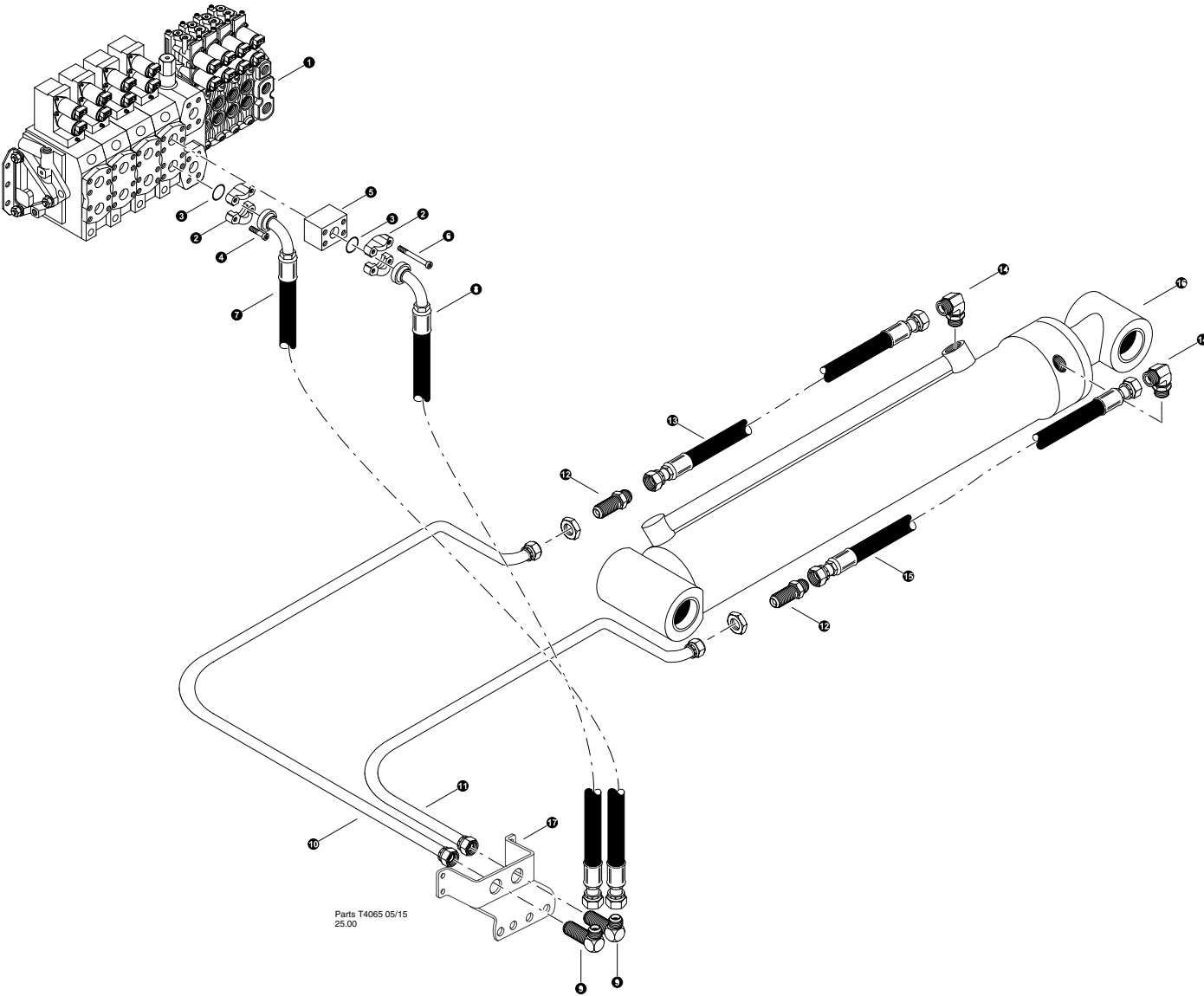
Due to warranty policy restrictions imposed by component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.

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Section FH-4

Forwarder Hydraulics - Standard Forwarder



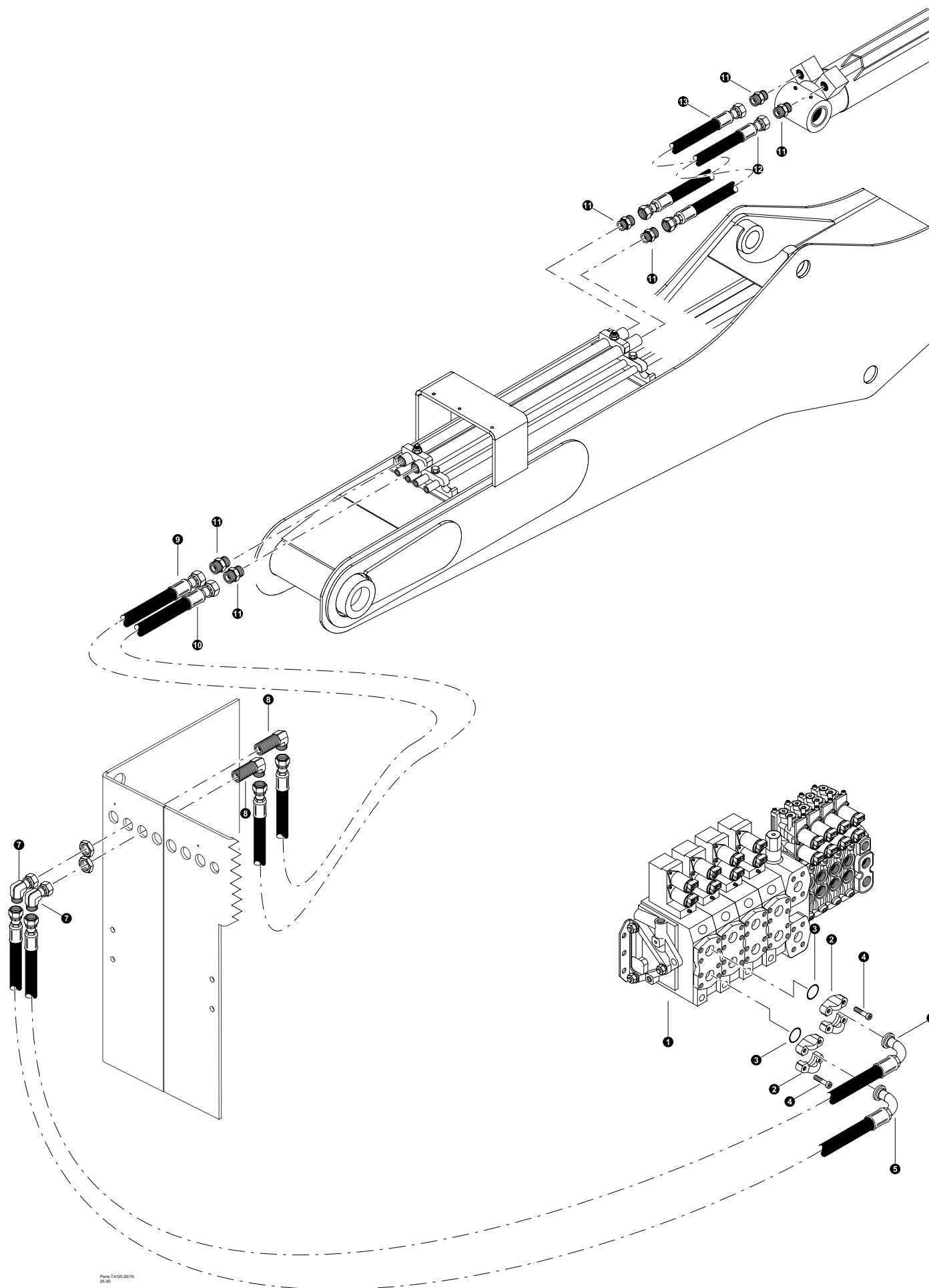
MAIN BOOM CYLINDER FUNCTION

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

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MAIN CONTROL VALVE	LH-1
2	15111-LH	2		KIT, split flange - 1" SF (Code 61)	
3	15377-LH	2		O-RING - 1" SF	
4	18979-LH	8		BOLT, allen M10 X 45MM	
5	46248-LH	1		MANIFOLD, VALVE BLOCK SAE 1" CODE 62	
6	55664-LH	4		BOLT - 10MM-1.5P X 80MM	
7	-LH	1		HOSE ASSEMBLY - 4029-16-160S-16PA4 (Main boom valve work port "B" to main boom cylinder bulkhead)	
8	-LH	1		HOSE ASSEMBLY - 4033-16-160S-16PA4 (Main boom valve work port "A" to main boom cylinder bulkhead)	
9	54687-LH	2		ELBOW, BULK UNION WETX-WLN-S (16X16JIC)	
10	55168-LH	1		TUBELINE, MAIN BOOM CYLINDER A	
11	55169-LH	1		TUBELINE, MAIN BOOM CYLINDER B	
12	15351-LH	2		CONNECTOR, STR BULKHEAD - 2041-16-16S	
13	-LH	1		HOSE ASSEMBLY - 4068-16-16JS-16JS (main boom bulkhead to main boom cylinder base port)	
14	15484-LH	2		ELBOW, 90 - 16 C5OX-S	
15	-LH	1		HOSE ASSEMBLY - 4059-16-16JS-16JS (main boom bulkhead to main boom cylinder rod port)	
16	REF.	1		MAIN BOOM (HOIST) CYLINDER	FB-3
17	47145-LH	1		BULKHEAD, UPPER - WHEELED	



See referenced page for component or assembly breakdown.



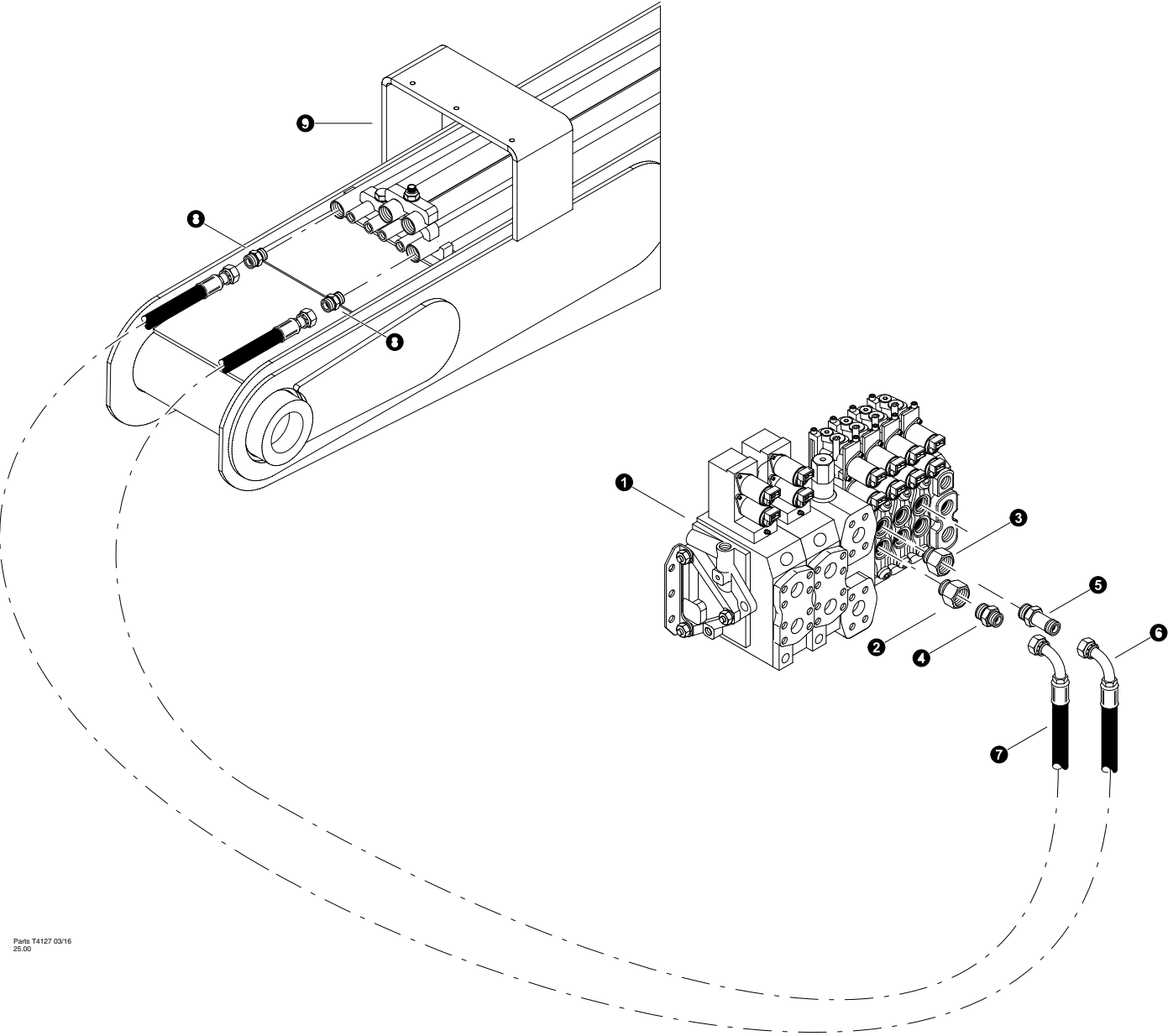
STICK BOOM CYLINDER FUNCTION

(Main Control Valve To Main Boom Tube Lines)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MAIN CONTROL VALVE	LH-1
2	15111-LH	2		KIT, split flange - 1" SF (Code 61)	
3	15377-LH	2		O-RING - 1" SF	
4	18979-LH	8		BOLT, allen M10 X 45MM	
5	-LH	1		HOSE ASSEMBLY - 4042-16-160S-16PA9 (<i>Stick boom valve work port "B" to Bulkhead</i>)	
6	-LH	1		HOSE ASSEMBLY - 4039-16-160S-16PA9 (<i>Stick boom valve work port "A" to Bulkhead</i>)	
7	17682-LH	2		ELBOW, 90 SWIVEL - FF2098T-1616S	
8	53680-LH	2		FITTING, BULKHEAD UNION ELBOW 16 WELO-WN	
9	-LH	1		HOSE ASSEMBLY - 4039-16-160S-16OS-AG (<i>Stick boom TUBELINE to Bulkhead</i>)	
10	-LH	1		HOSE ASSEMBLY - 4039-16-160S-16OS-AG (<i>Stick boom TUBELINE to Bulkhead</i>)	
11	15225-LH	2		CONNECTOR, STR - FF1852T-1616S	
12	-LH	1		HOSE ASSEMBLY - 4019.5-16-160S-16O4 (<i>Stick Cylinder to main boom tube line base side</i>)	
13	-LH	1		HOSE ASSEMBLY - 4019.5-16-16OS-16O4 (<i>Stick Cylinder to main boom tube line rod side</i>)	



See referenced page for component or assembly breakdown.



Parts T4127 03/16
25.00

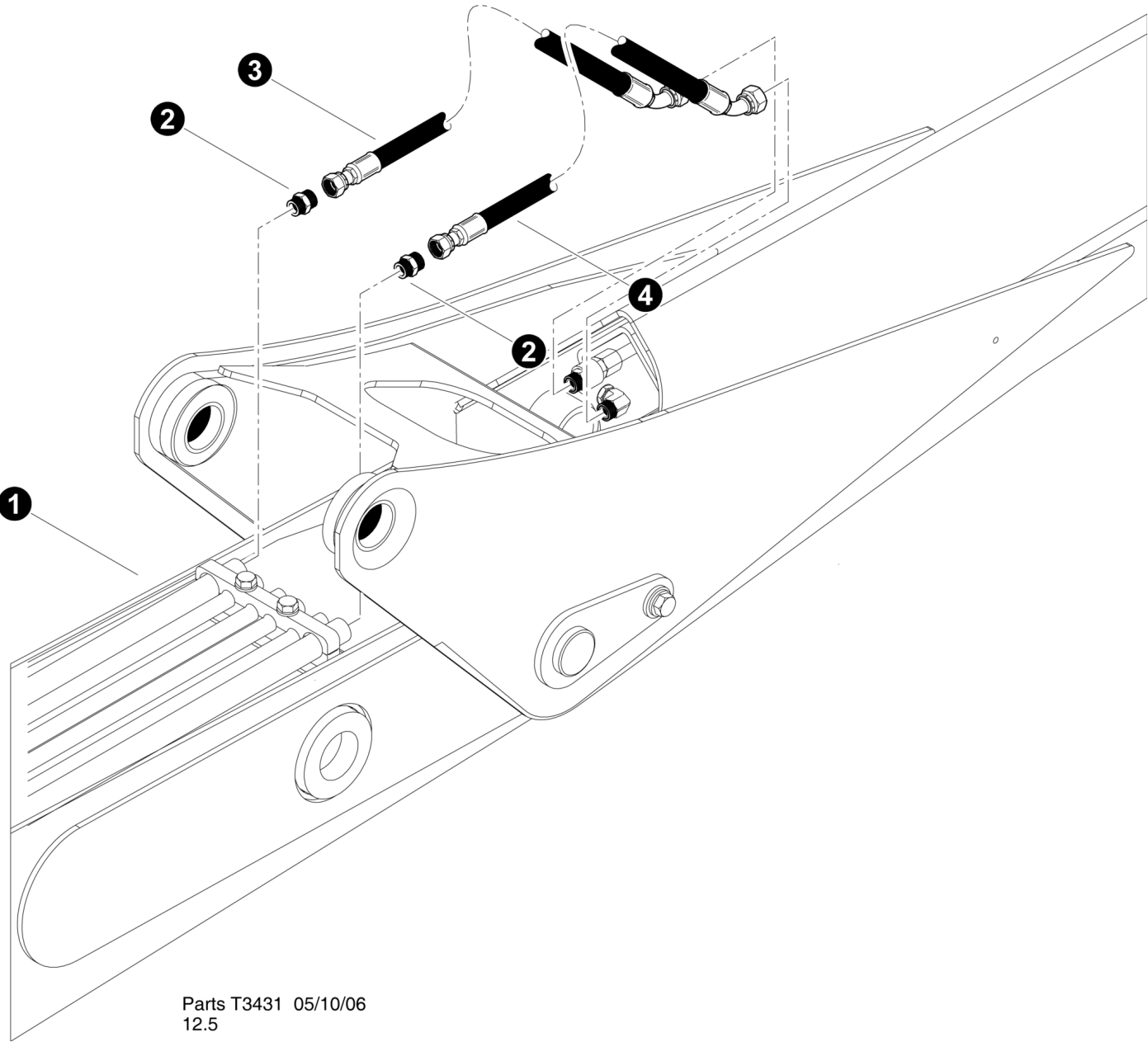
SQUIRT BOOM FUNCTION (Optional)

(Main Control Valve To Main Boom Tube Lines)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MAIN CONTROL VALVE	LH-1
2	19289-LH	2		BUSHING, reducer - 6410-10-12	
3	19289-LH	2		BUSHING, reducer - 6410-10-12	
4	15152-LH	1		CONNECTOR, straight - FF1852T-1212S	
5	19092-LH	1		CONNECTOR, straight long - FF1854T-1212S	
6	-LH	1		HOSE ASSEMBLY - 4057-12-12OS-12O9 (<i>Squirt Cyl valve</i> <i>work port "A" to Boom</i>)	
7	-LH	1		HOSE ASSEMBLY - 4063-12-12OS-12O9 (<i>Squirt Cyl valve</i> <i>work port "B" to Boom</i>)	
8	15152-LH	2		CONNECTOR, straight - FF1852T-1212S	
9	REF.	1		MAIN BOOM ASSEMBLY	LB-1-2



See referenced page for component or assembly breakdown.



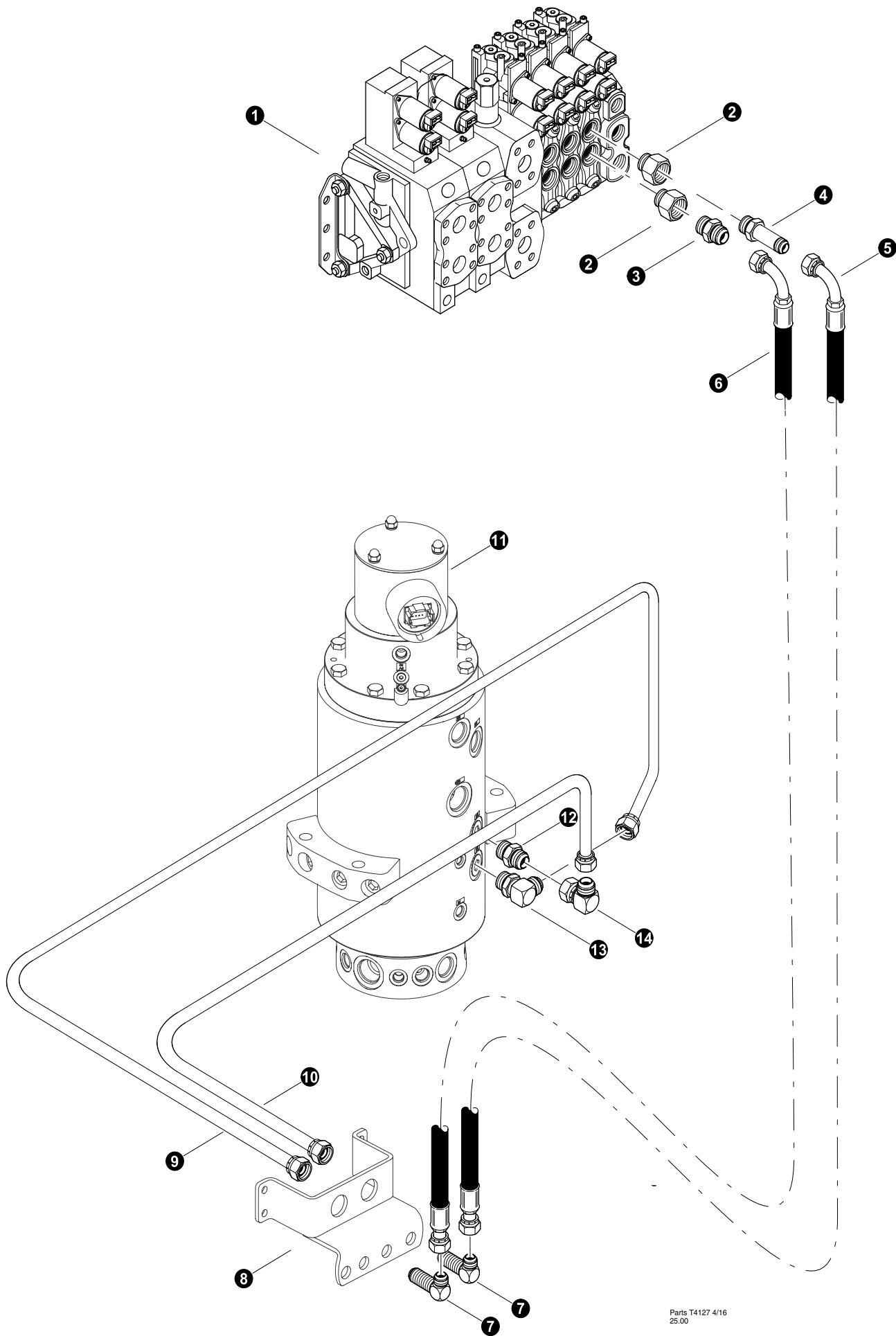
“Optional” SQUIRT BOOM CONNECTIONS

(Main Boom To Squirt Cylinder)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MAIN / SQUIRT BOOM ASSEMBLY	LB-1
2	15152-LH	2		CONNECTOR, STR - FF1852T-1212S	
3	-LH	1		HOSE ASSEMBLY - 4042-12-120S-1204 (<i>Main Boom tube line to Squirt Boom Cylinder</i>)	
4	-LH	1		HOSE ASSEMBLY - 4042-12-120S-1204 (<i>Main Boom tube line to Squirt Boom Cylinder</i>)	



See referenced page for component or assembly breakdown.



Parts T4127 4/16
25.00

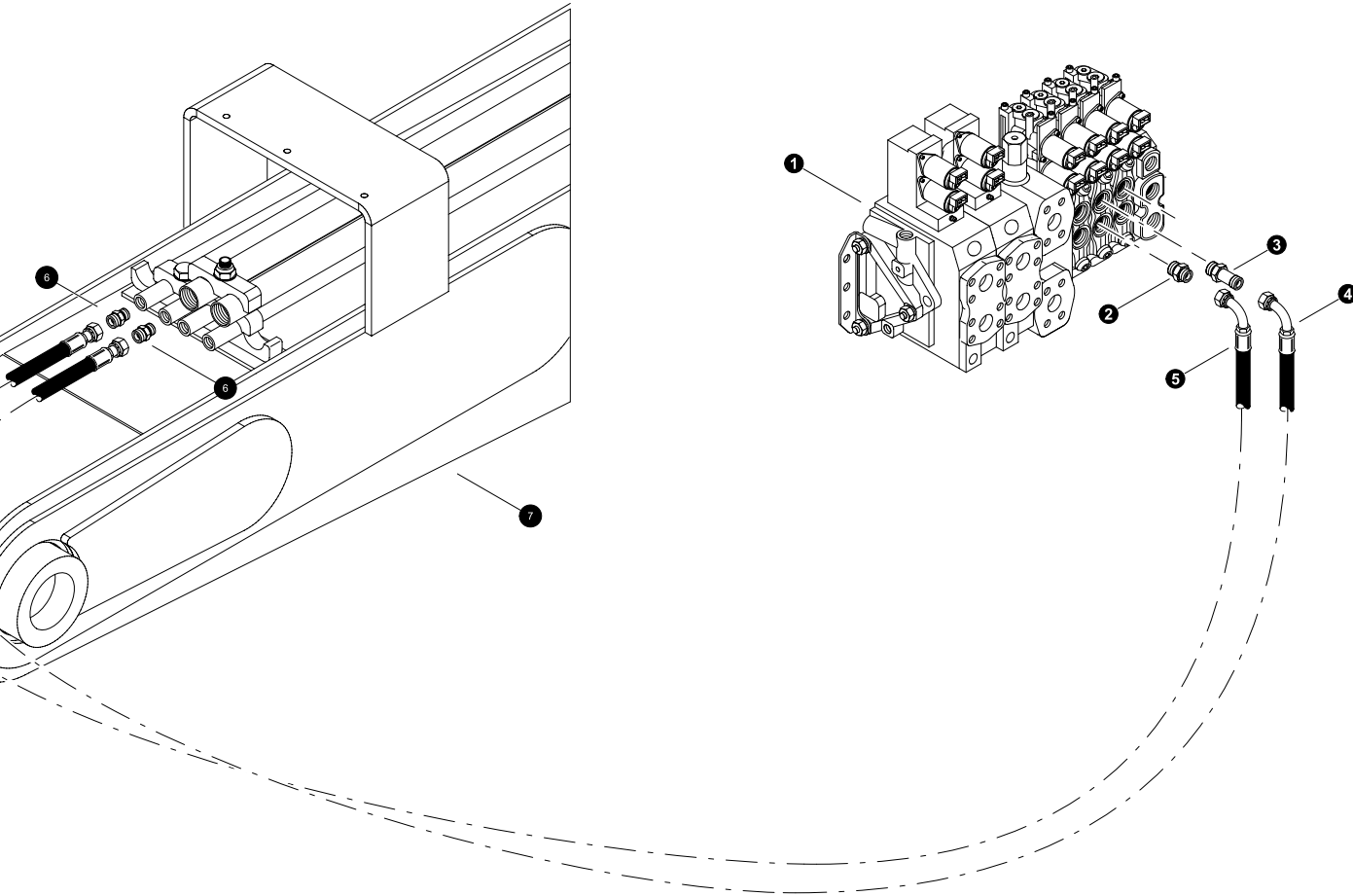
STEERING

(Main Control Valve To Rotary Manifold)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MAIN CONTROL VALVE	LH-1
2	19289-LH	2		BUSHING, reducer - 6410-10-12	
3	15152-LH	1		CONNECTOR, straight - FF1852T-1212S	
4	19092-LH	1		CONNECTOR, straight long - FF1854T-1212S	
5	-LH	1		HOSE ASSEMBLY - 4038-12-12JS-12J9 (<i>Steering valve work port "A" to Bulkhead</i>)	
6	-LH	1		HOSE ASSEMBLY - 4036-12-12JS-12J9 (<i>Steering valve work port "B" to Bulkhead</i>)	
7	54704-LH	2		ELBOW, 90 BULK 12 WETX-WLN-S (12 JIC MM)	
8	47145-LH	1		BULKHEAD, UPPER - WHEELED	
9	55256-LH	1		TUBELINE, FRONT STEER BH-LV1 RM WHEELED	
10	55255-LH	1		TUBELINE, REAR STEER BH-LV2 RM WHEELED	
11	REF.	1		ROTARY MANIFOLD ASSEMBLY	UP-1
12	11324-LH	1		CONNECTOR, STR - 6400-12	
13	11306-LH	1		ELBOW, 90 12 C5OX-S	
14	15477-LH	1		ELBOW, 90 SWIVEL - 12 C6X-S	



See referenced page for component or assembly breakdown.



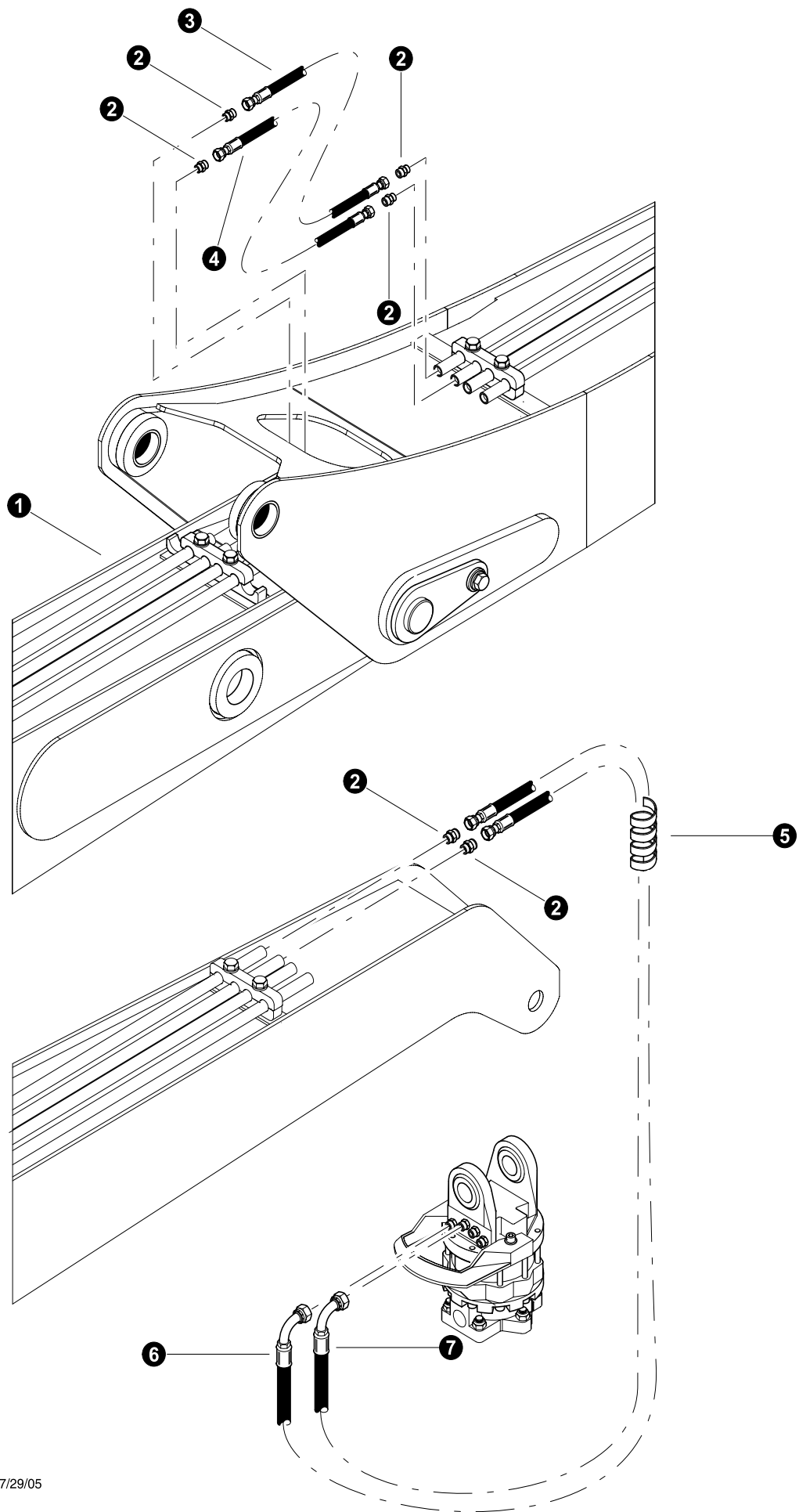
GRAPPLE ROTATE FUNCTION

(Main Control Valve To Main Boom Tube Lines)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MAIN CONTROL VALVE	LH-1
2	50039-LH	2		FITTING, STRAIGHT - 10	
3	52554-LH	1		FITTING, STRAIGHT LONG - 10	
4	-LH	1		HOSE ASSEMBLY - 4065-10-10JS-1009	
5	-LH	1		HOSE ASSEMBLY - 4065-10-10JS-1009	
6	15117-LH	2		CONNECTOR, STR - FF1852T-0808S	
7	REF.	1		MAIN BOOM ASSEMBLY	LB-1-2



See referenced page for component or assembly breakdown.



Parts T3325 07/29/05
12.5

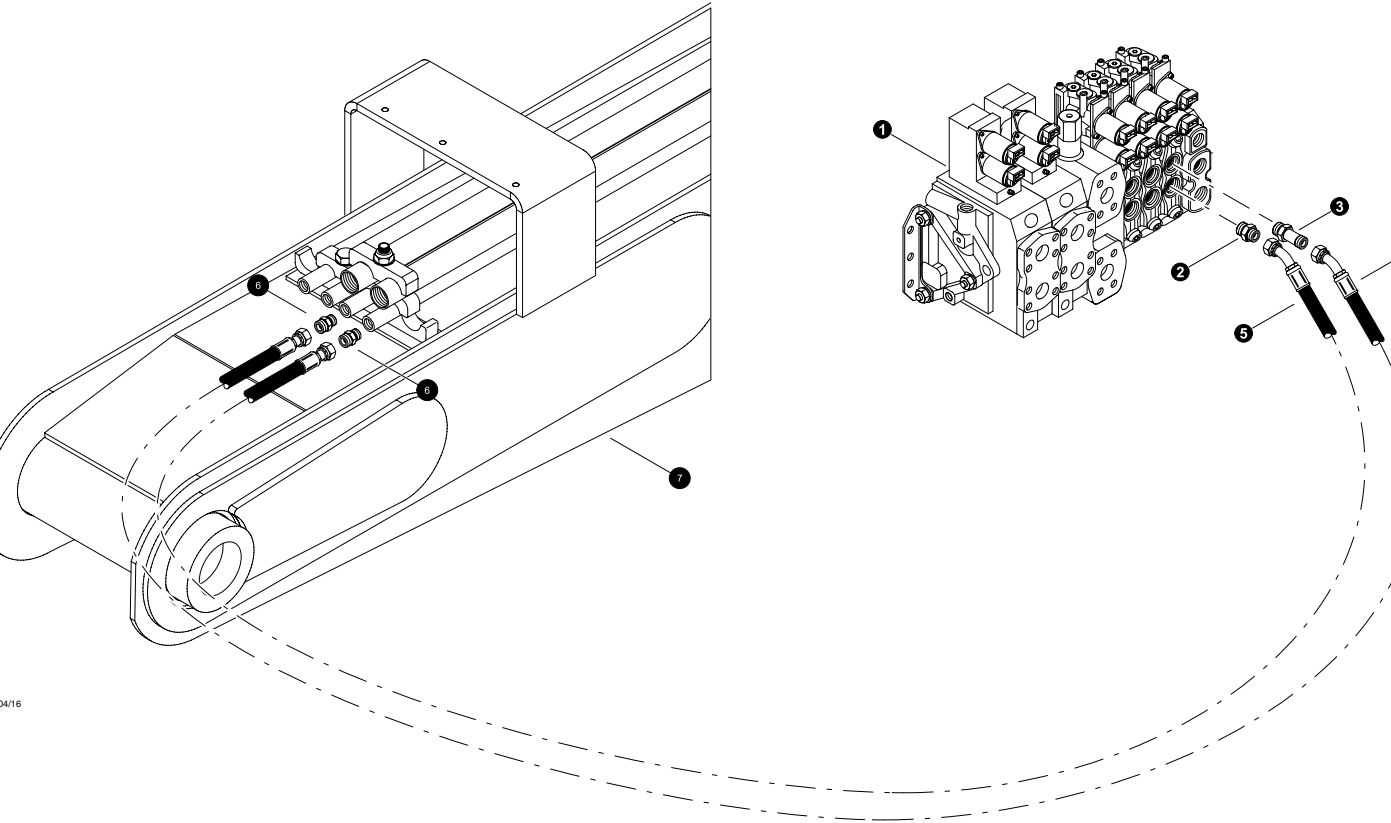
GRAPPLE ROTATE FUNCTION

(Main Boom Tube Lines to Stick Boom)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		LOADER BOOM ASSEMBLY	LB
2	15117-LH	2		CONNECTOR, STR - FF1852T-0808S	
3	-LH	1		HOSE ASSEMBLY - 4045-08-080S-080S (<i>main boom to stick boom tube lines</i>)	
4	-LH	1		HOSE ASSEMBLY - 4045-08-080S-080S (<i>main boom to stick boom tube lines</i>)	
5	19677-LH	6 ft		PROTECTOR, HOSE - SPRIAL (1.25")(BULK)	
6	51482-LH	1		HOSE ASSEMBLY - 4069-08-080S-0809 (<i>stick boom tube lines to grapple rotator</i>)	
7	51482-LH	1		HOSE ASSEMBLY - 4069-08-080S-0809 (<i>stick boom tube lines to grapple rotator</i>)	



See referenced page for component or assembly breakdown.



34/16

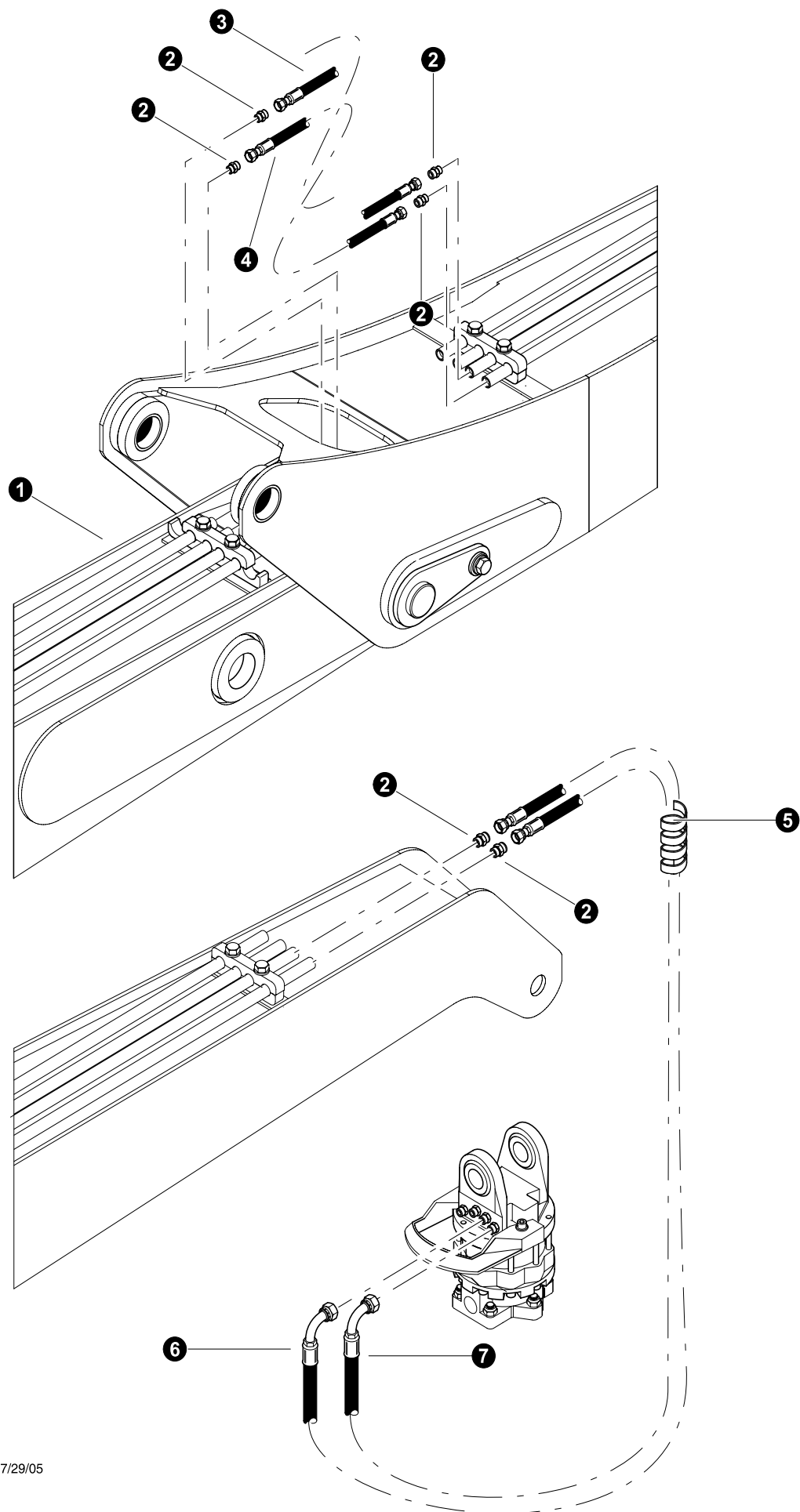
GRAPPLE OPEN/CLOSE FUNCTION

(Main Control Valve To Main Boom Tube Lines)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		LOADER BOOM ASSEMBLY	LB
2	50039-LH	2		FITTING, STRAIGHT - 10	
3	52554-LH	1		FITTING, STRAIGHT LONG - 10	
4	-LH	1		HOSE ASSEMBLY - 4059-10-100S-1004-W	
5	-LH	1		HOSE ASSEMBLY - 4060-10-100S-1004-W	
6	15117-LH	2		CONNECTOR, STR - FF1852T-0808S	
7	REF.	1		MAIN BOOM ASSEMBLY	LB-1-2



See referenced page for component or assembly breakdown.



Parts T3327 07/29/05
12.5

GRAPPLE OPEN/CLOSE FUNCTION

(Main Boom Tube Lines to Stick Boom)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		LOADER BOOM ASSEMBLY	LB
2	15115-LH	2		CONNECTOR, straight - FF1852T-0810S	
3	-LH	1		HOSE ASSEMBLY - 4045-10-100S-100S (<i>main boom to stick boom tube lines</i>)	
4	-LH	1		HOSE ASSEMBLY - 4045-10-100S-100S (<i>main boom to stick boom tube lines</i>)	
5	19677-LH	6 ft		PROTECTOR, HOSE - SPRIAL (1.25")(BULK)	
6	51482-LH	1		HOSE ASSEMBLY - 4069-08-080S-0809 (<i>stick boom tube lines to grapple rotator</i>)	
7	51482-LH	1		HOSE ASSEMBLY - 4069-08-080S-0809 (<i>stick boom tube lines to grapple rotator</i>)	



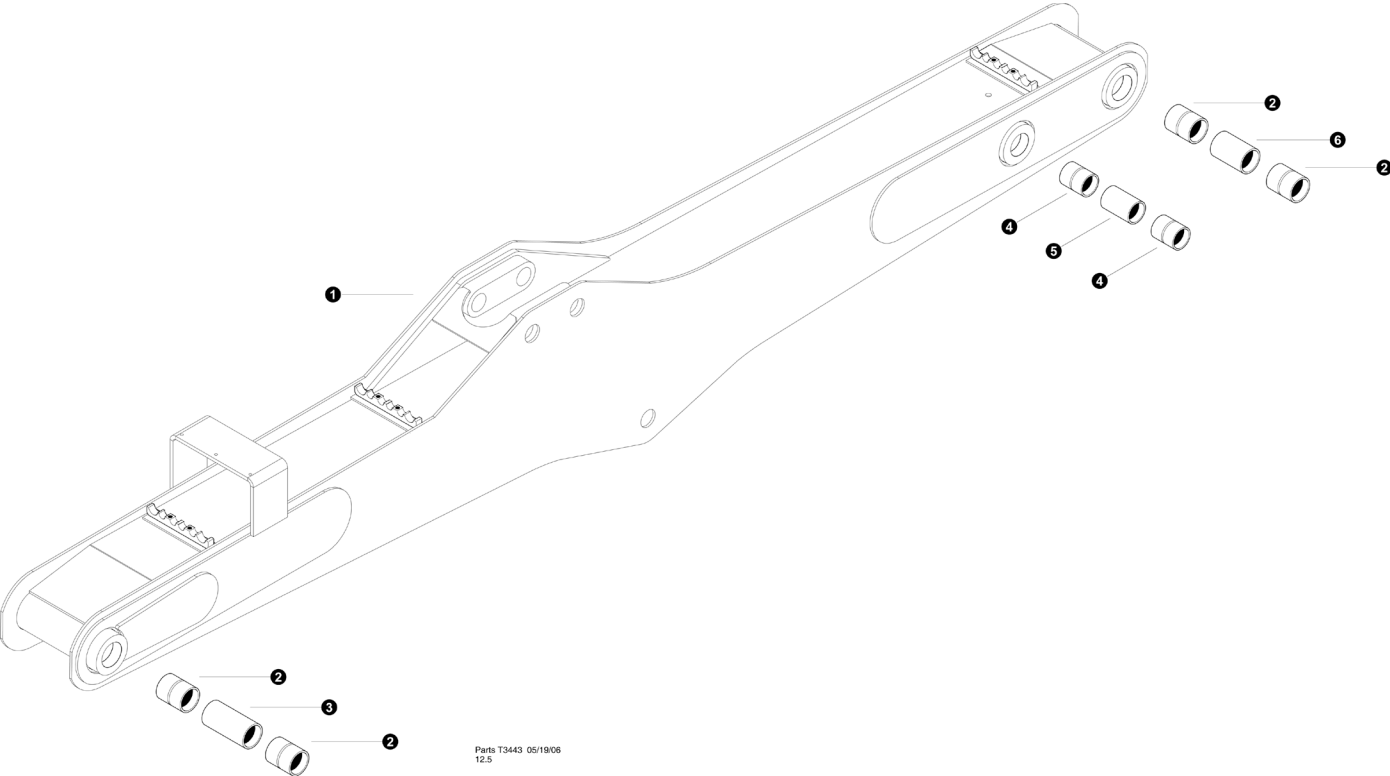
See referenced page for component or assembly breakdown.

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Section LB-1

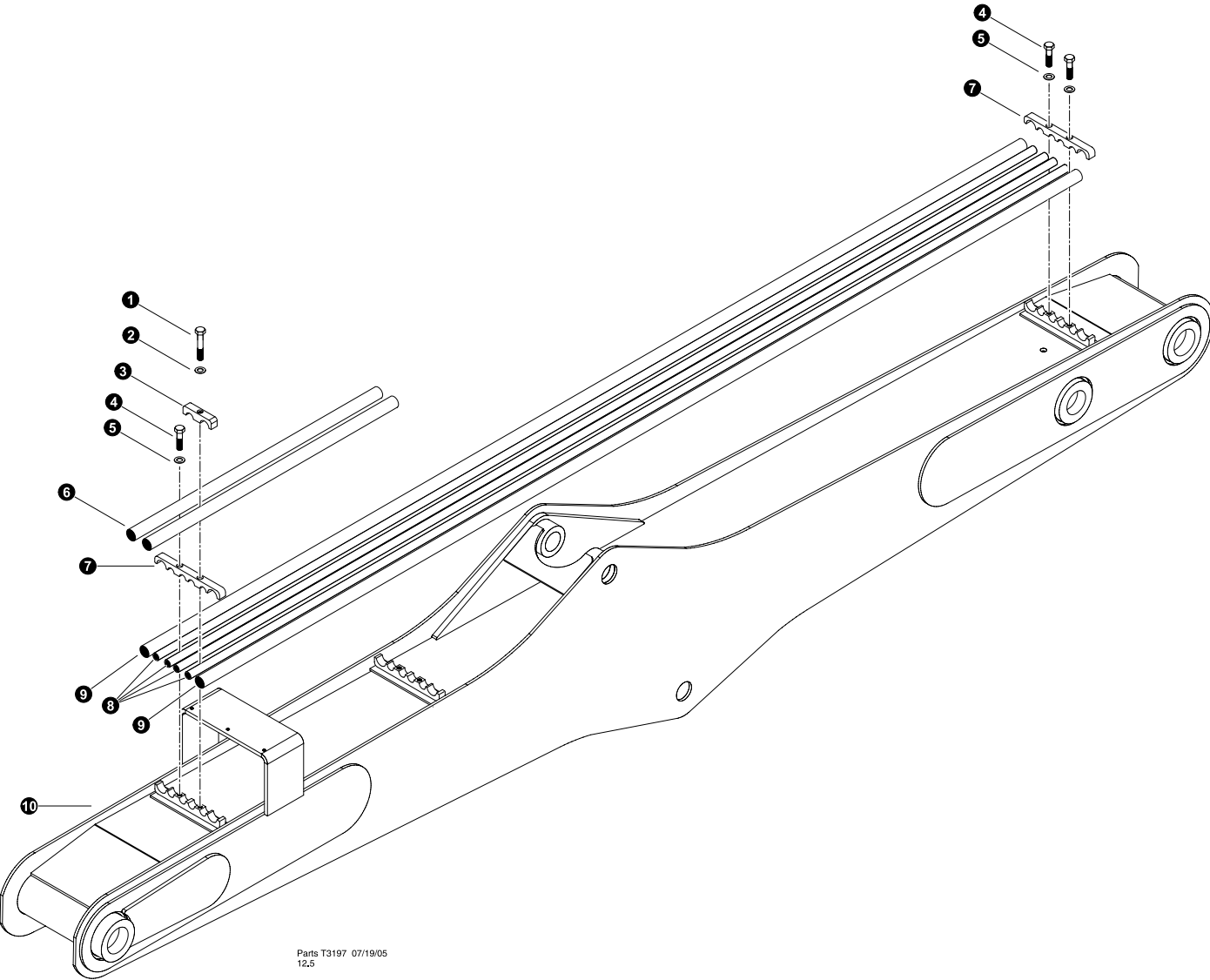
Loader Booms - Main Boom



MAIN BOOM ASSEMBLY (Forwarder)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	52748-LB	1	☐	WELDMENT, MAIN BOOM STR 810/830/840/630	
2	42485-LB	4		BUSHING - 3.5" X 3.0" X 4.25" UNDERSIZE	
3	12365-LB	1		SPACER, BASE - 3" X 7.44"	
4	42482-LB	2		BUSHING - 3" X 2.5" X 4.25" UNDERSIZE	
5	42265-LB	1		SPACER, NOSE - 2.5" ID X 5.438"(NEW BOOM	
6	42185-LB	1		SPACER, NOSE	

☐ Kit or Assembly - includes all items indented underneath.

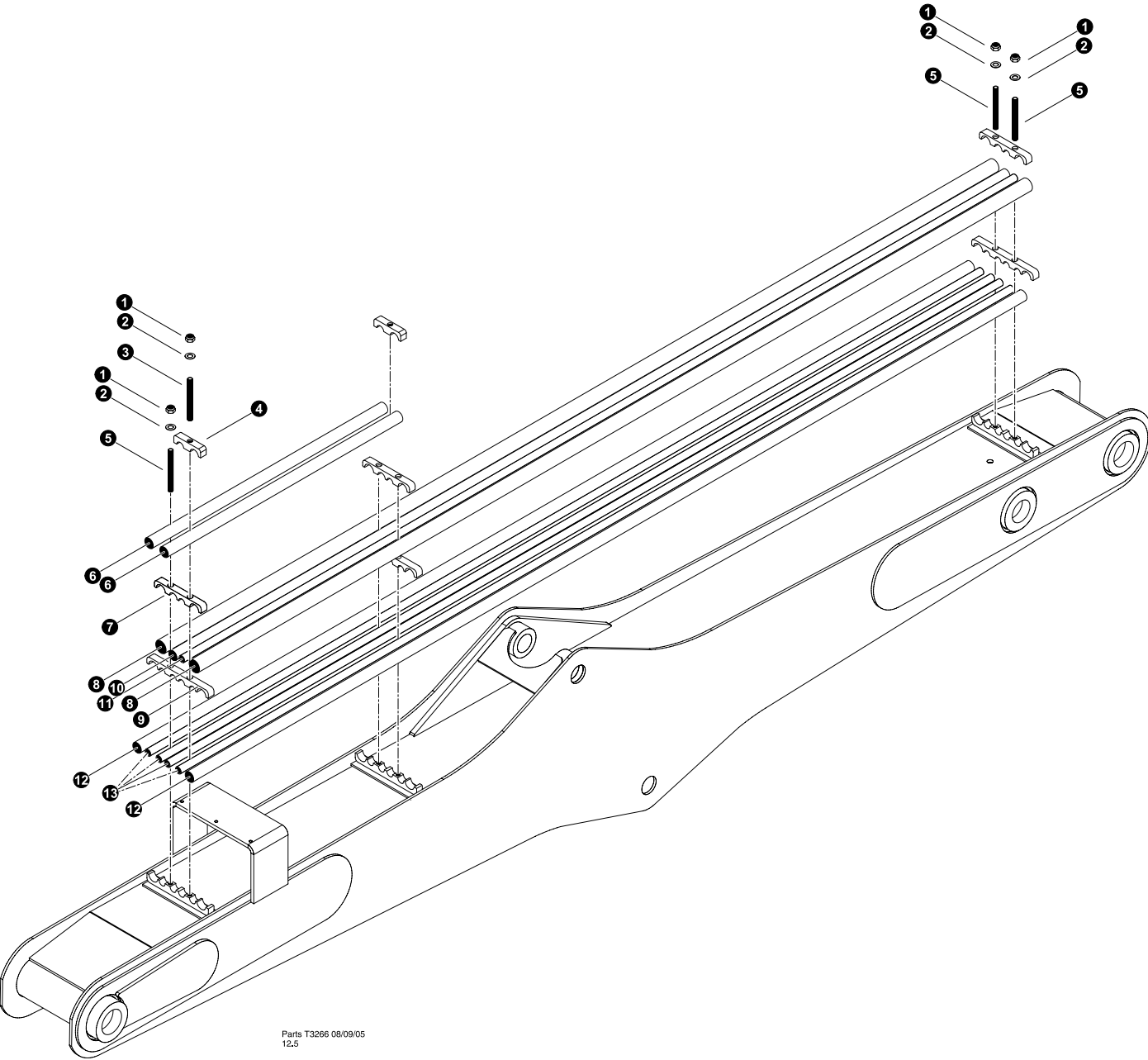


MAIN BOOM TUBE LINES (Forwarder)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	10773LB	2	BOLT - .625" X 3.5"	
2	10771-LB	3	WASHER, SAE flat - 5/8"	
3	19324-LB	2	CLAMP, tubeline - 3/4" x 3/4"	
4	15681-LB	3	BOLT - .625" X 2.25"	
5	10771-LB	3	WASHER, SAE flat - 5/8"	
6	51785-LB	2	TUBELINE - .75" x 42" FWD MAIN	
7	42236-LB	3	CLAMP, MAIN BOOM FORWARDER TOP	
8	51782-LB	4	TUBELINE - .5" x 148" FWD MAIN	
9	51783-LB	2	TUBELINE - .75" x 148" (OPTIONAL FOR SQUIRT)	
10	REF	1	 MAIN BOOM ASSEMBLY.....	LB-1

 Kit or Assembly - includes all items indented underneath.

 See referenced page for component or assembly breakdown.

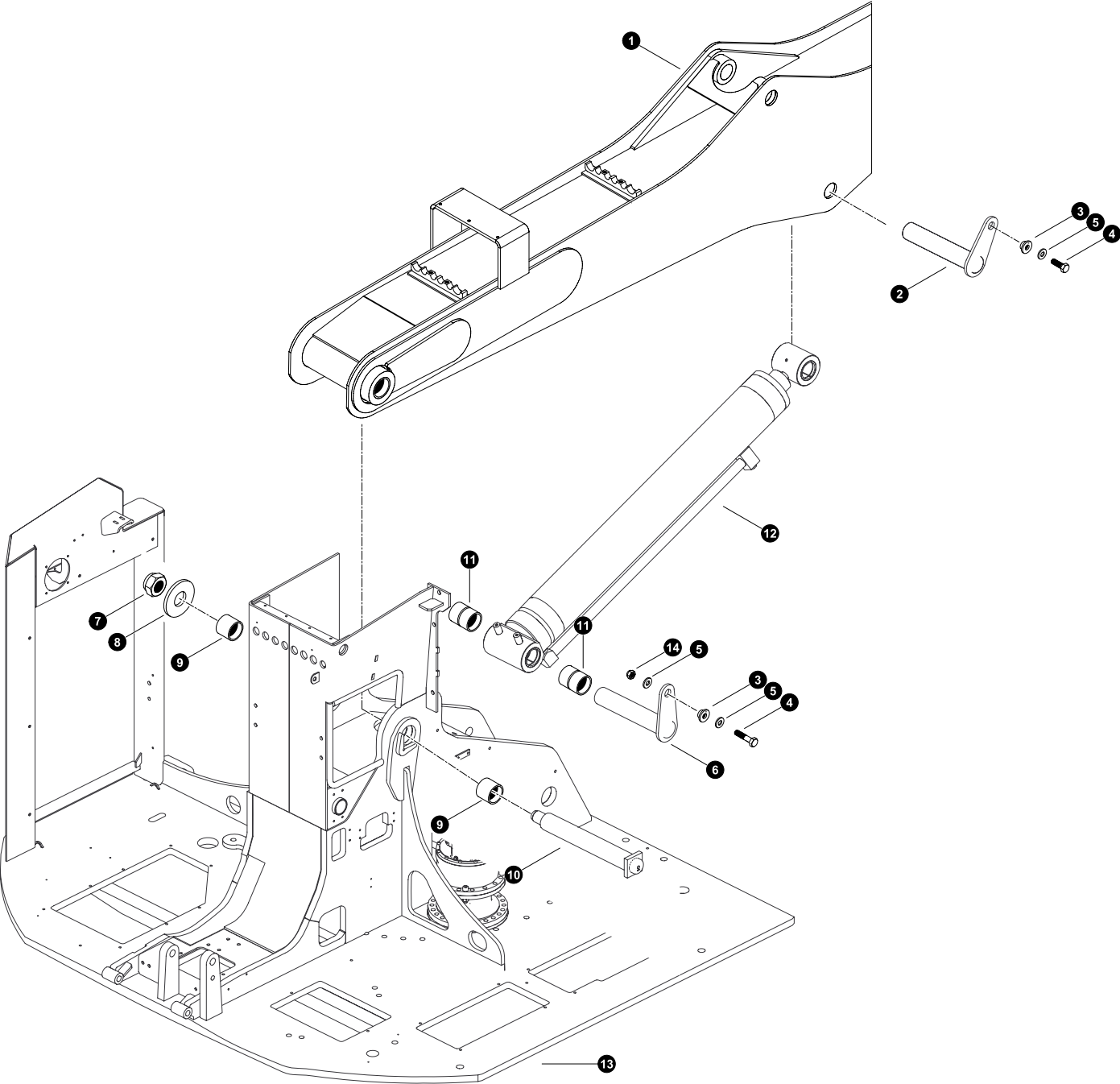


MAIN BOOM TUBE LINES (Harvester and Combo Machine)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	15563-LB	6	NUT, nylock - 5/8"	
2	10771-LB	6	WASHER, SAE flat - 5/8"	
3	17062-LB	2	STUD - .625" X 8"	
4	19324-LB	2	CLAMP, tubeline - 3/4" x 3/4"	
5	15672-LB	4	STUD - 5/8" x 5-1/4"	
6	51785-LB	2	TUBELINE - .75" x 42" FWD MAIN	
7	42512-LB	3	CLAMP, MAIN COMBO	
8	51784-LB	1	TUBELINE - 1" x 148" FWD MAIN - T830	
9	42236-LB	3	CLAMP, MAIN BOOM FORWARDER	
10	52173-LB	1	TUBELINE - BLACK PIPE (ELECTRICAL)	
11	51782-LB	1	TUBELINE - .5" x 148" FWD MAIN	
12	51783-LB	2	TUBELINE - .75" x 148" (OPTIONAL FOR SQUIRT)	
13	51782-LB	4	TUBELINE - .5" x 148" FWD MAIN	
14	REF	1	 MAIN BOOM ASSEMBLY.....	LB-1

 Kit or Assembly - includes all items indented underneath.

 See referenced page for component or assembly breakdown.



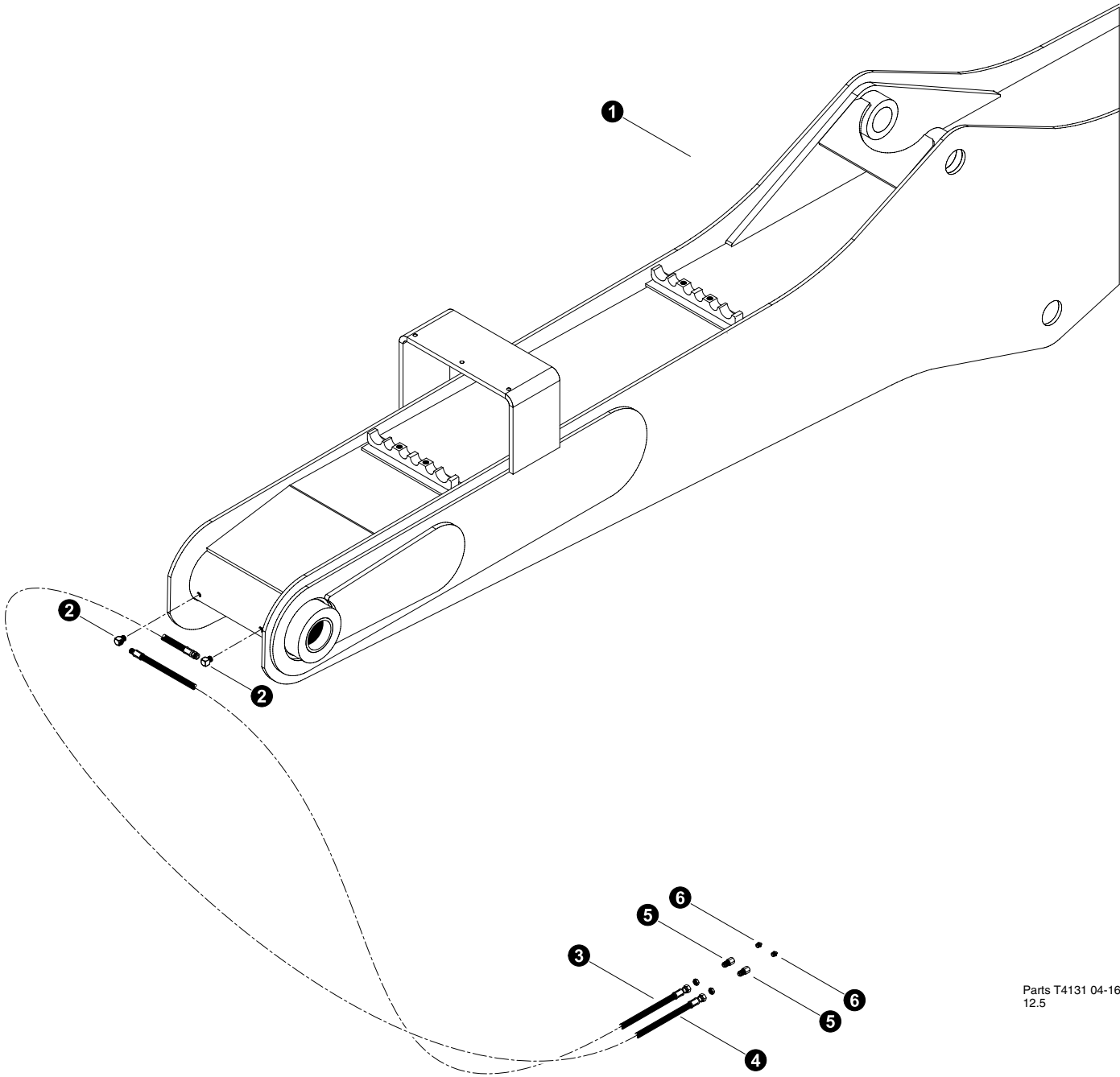
Parts T41308 05/16
12.5

MAIN BOOM AND CYLINDER INSTALLATION (Forwarder)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		MAIN BOOM ASSEMBLY	LB-1
2	51653-LB	1		PIN ASSEMBLY, 2.99 DIA X 14.25"	
3	18570-LB	2		WASHER, PIN RETAINING	
4	15550-LB	2		WASHER, SAE FLAT - .75"	
5	15549-LB	2		BOLT - .75" X 2.0	
6	51575-LB	1		PIN ASSEMBLY, 2.99 DIA X 18.63"	
7	10728-LB	1		NUT, NYLOCK - 2" (ZINC PLATED)	
8	19384-LB	1		WASHER, BURNED - 2.12" ID X 6" OD X .5"	
9	42484-LB	2		BUSHING - 3.5" X 3.0" X 2.0" UNDERSIZE	
10	51952-LB	1		PIN ASSEMBLY, 2.99 DIA X 24.63"	
11	51953-LB	1		PIN, DOWEL 1 DIA X 5 LG	
12	42485-LB	2		BUSHING - 3.5" X 3.0" X 4.25" UNDERSIZE	
13	REF.	1		MAIN BOOM CYLINDER (FORWARDER / HARVESTER)	LB-4
14	REF.	1		UPPER TURNTABLE WELDMENT	UP-1



See referenced page for component or assembly breakdown.



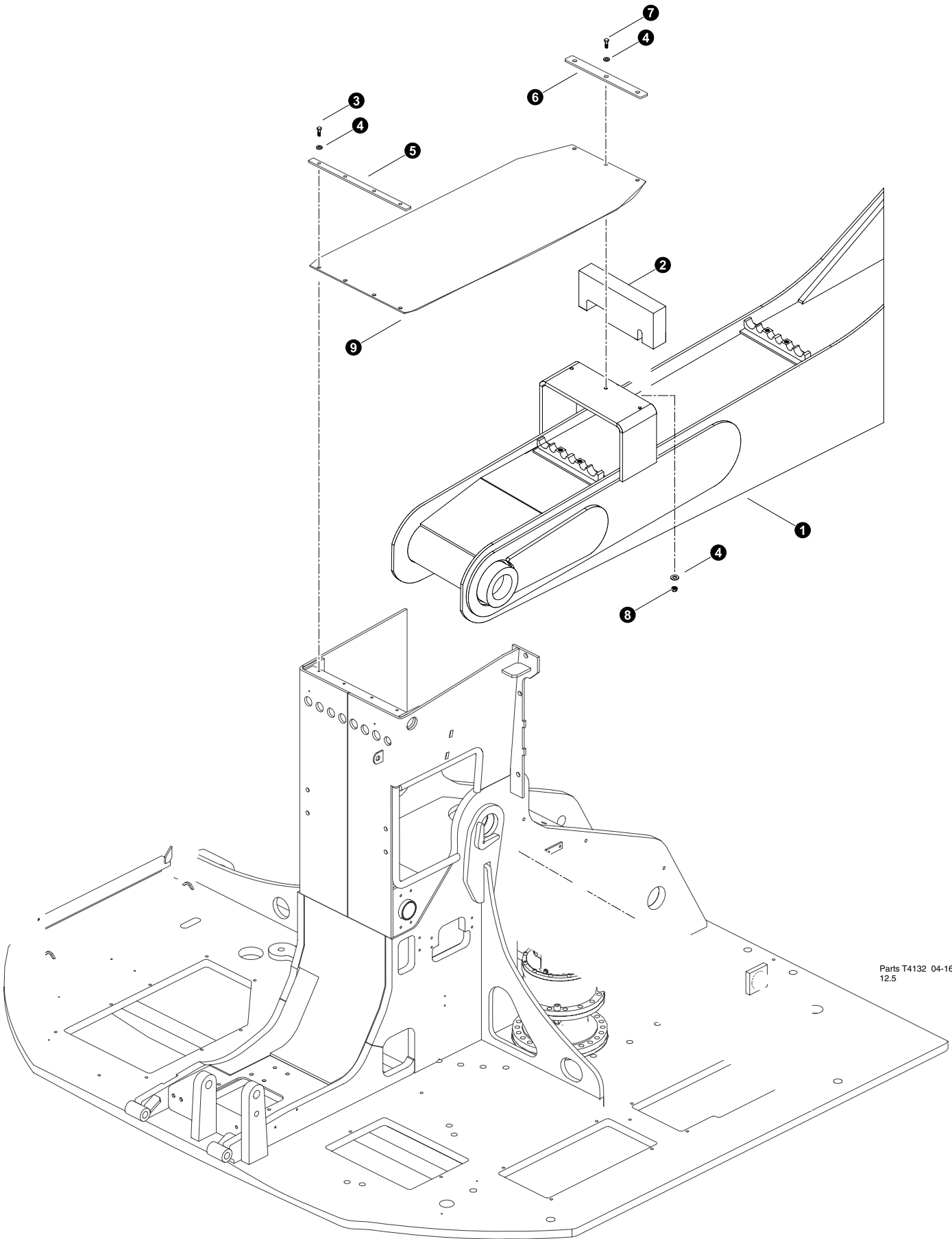
Parts T4131 04-16
12.5

MAIN BOOM AND CYLINDER GREASE LINES (Forwarder)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		MAIN BOOM ASSEMBLY	LB-1
2	22281-FB	6		FITTING, 90° - 5546132	
3	-FB	2		HOSE ASSEMBLY 2094-02-02PS-04JS	
4	-FB	2		HOSE ASSEMBLY 2094-02-02PS-04JS	
5	15658-FB	2		CONNECTOR, straight bulkhead - 2239-2-4S	
6	10704-FB	7		FITTING, straight grease - 1/8" pipe thread	



See referenced page for component or assembly breakdown.



Parts T4132 04-16
12.5

MAIN BOOM - DEBRIS SHIELD

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MAIN BOOM.....	LB-1
2	- - -	1		FOAM	
3	11707-FB	4		BOLT - .375" X 1"	
4	15528-FB	7		WASHER, SAE FLAT - .375"	
5	46989-FB	1		BAR, RUBBER - BOOM C SERIES	
6	42689-FB	1		BAR, RUBBER - BOOM C SERIES	
7	20084-FB	6		BOLT - .375" X 1.75"	
8	15507-FB	3		NUT, NYLOCK - .375"	
9	46522-FB	6		BELTING, GULLWING TO BOOM HINGE - C SER.	

 Kit or Assembly - includes all items indented underneath.

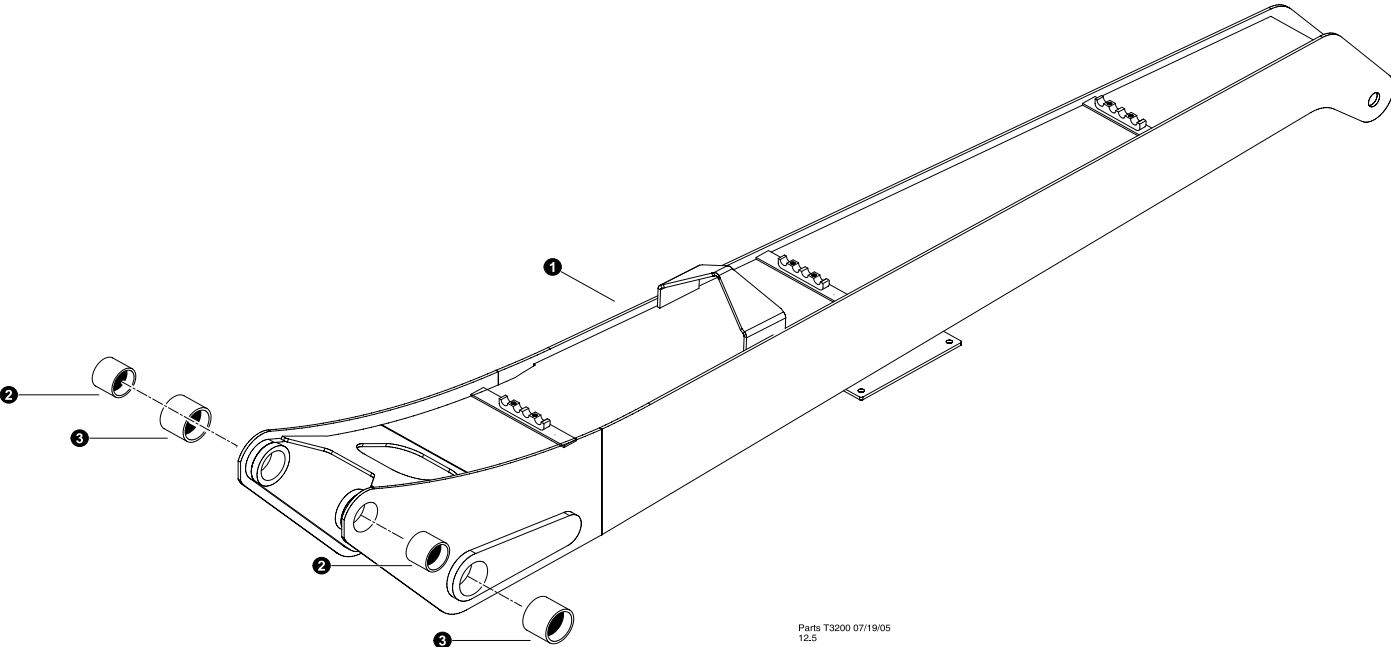
 See referenced page for component or assembly breakdown.

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Section LB-2

Loader Booms - Stick & Squirt (Tele) Booms

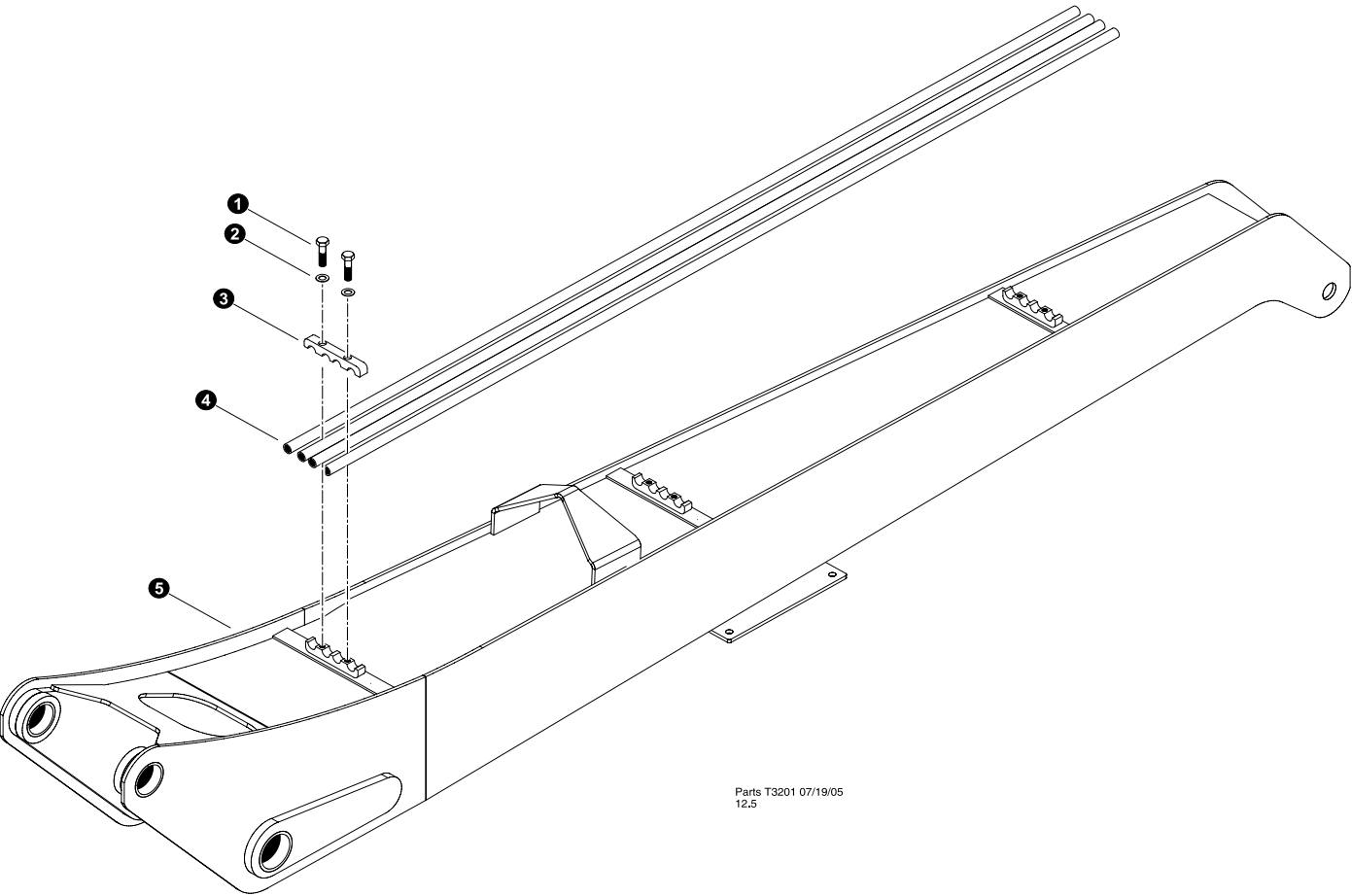


STICK BOOM COMPONENTS

(Used on Machine built 05/18/09 and Before)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	51536-LB	1	☐	WELDMENT, STICK BOOM TF830 1.75" - (0307-051809 and Before)	
1	53908-LB	1	☐	WELDMENT, STICK BOOM TF830 2" - (0308-060409 and After)	
2	42515-LB	2		BUSHING - 3" X 2.5" X 2.0" UNDERSIZE	
3	42484-LB	2		BUSHING - 3.5" X 3.0" X 2.0" UNDERSIZE	

☐ Kit or Assembly - includes all items indented underneath.



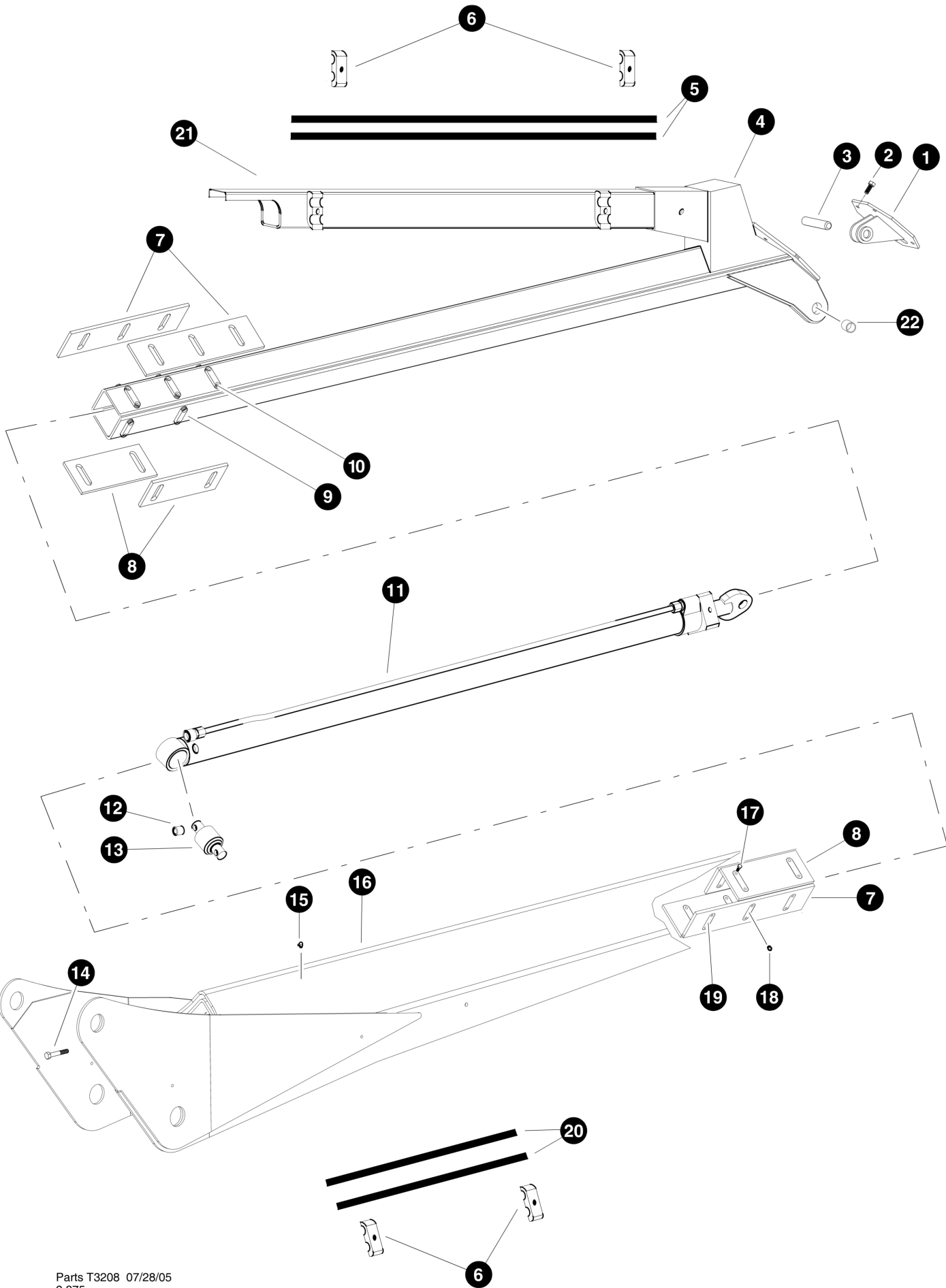
Parts T3201 07/19/05
12.5

STICK BOOM TUBELINE INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	15526-LB	6		BOLT - 5/8" x 2"	
2	10771-LB	6		WASHER, SAE flat - 5/8"	
3	42571-LB	3		CLAMP, TUBELINE 1/2"	
4	51815-LB			TUBELINE - .5" X 108" (STICK BOOM -830)	
5	REF	1		STICK BOOM ASSEMBLY	LB-2



See referenced page for component or assembly breakdown.

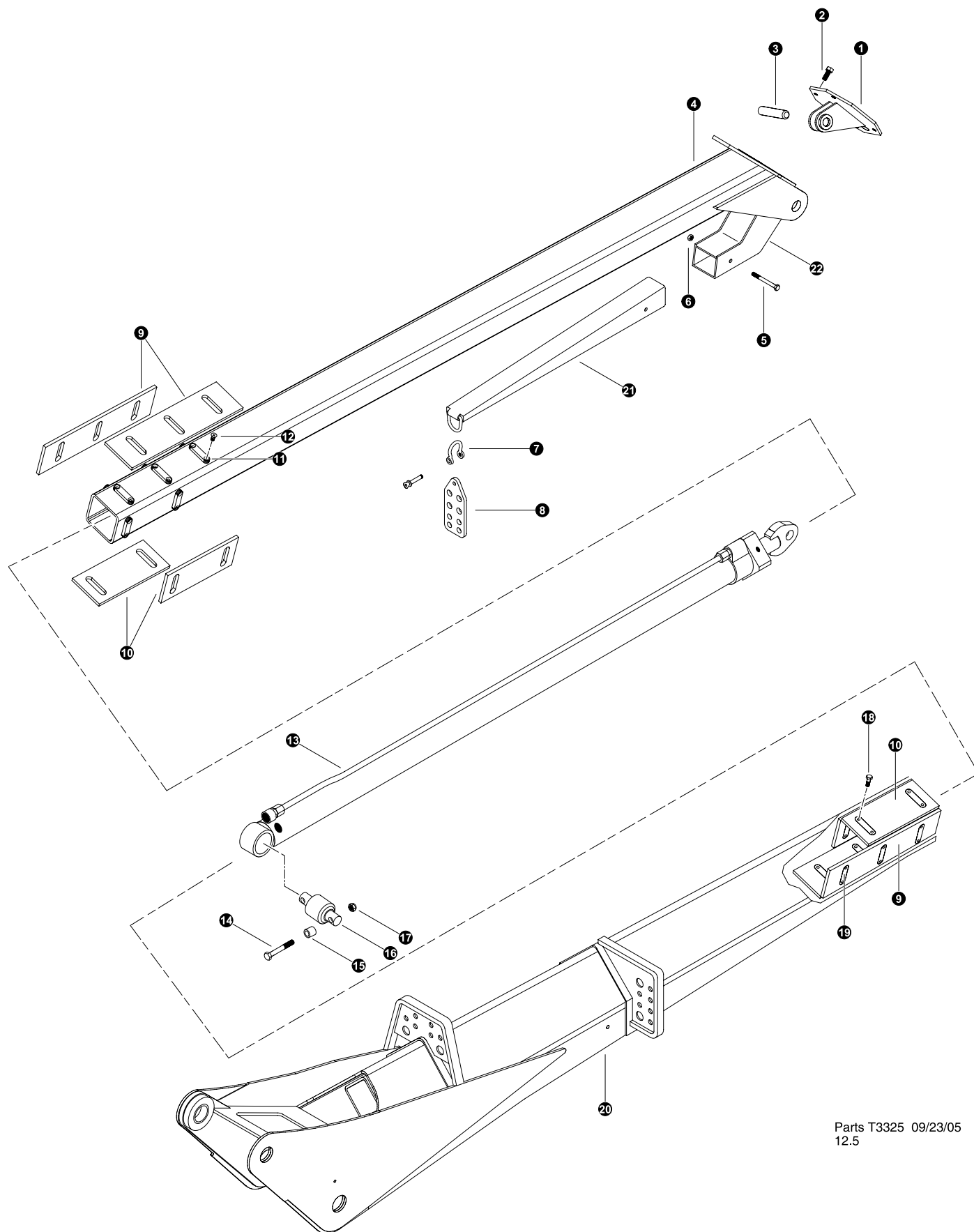


Parts T3208 07/28/05
9.375

SQUIRT BOOM COMPONENTS (Forwarder - Heavy Duty 8" Tube)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
	52087STD-LB	1	☐ BOOM, SQUIRT - Standard Stinger	
1	---	1	CYLINDER ANCHOR (XB2017) before Boom SN 52087-132	
1	---	1	CYLINDER ANCHOR (XB2017R1) SN 52087-132 and After	
2	15502-LB	4	BOLT, 5/8 X 1.5	
3	---	1	PIN (XB2015) before Boom SN 52087-132	
3	---	1	PIN (XB2016) SN 52087-132 and After	
4	-LB	1	SLIDE, SQUIRT 6" Tube Forwarder (0307-051809 and Before)	
4	-LB	1	SLIDE, SQUIRT 8" Tube Forwarder (0308-060409 and After)	
5	19679-LB	4	TUBELINE, 1/2" X 48"	
6	15272-LB	8	CLAMP, saddle 1/2 x 1/2	
7	---	4	WEAR PAD, long (XB3016)	
-	---	4	SHIM, long wear pad (XB3016S)	
8	---	4	WEAR PAD, short (XB3015)	
-	---	4	SHIM, long wear pad (XB3015S)	
9	---	10	PUCKS, retaining - countersunk (XB3021)	
10	---	20	SCREWS, 3/8 X 3/4 brass (XB5001)	
11	REF	1	CYLINDER, squirt boom 6' LB-3	
12	---	2	SPACER, squirt cylinder mount (XB4081)	
13	---	1	BUSHING, squirt cyl rear (HEN 44695)	
14	10719-LB	2	BOLT, 5/8 X 4"	
15	15682-LB	2	FITTING, grease .125 - 90	
16	52198-LB	1	SHELL, SQUIRT HD 8" 4-bar STD	
17	---	20	BOLT, 3/8 X 7/8 bronze (XB5007)	
18				
19	---	8	PUCKS, retaining - (XB3020)	
-	---	2	PUCKS, retaining - tapped for grease zerk(XB3020 Z)	
20	19495-LB	4	TUBELINE, 1/2" X 24"	
21	52194-LB	1	WELDMENT, STINGER 6' forwarder	
22	19117-LB	2	BUSHING - 1.75" X 1.5" (Nose)	

☐ Kit or Assembly - includes all items indented underneath.

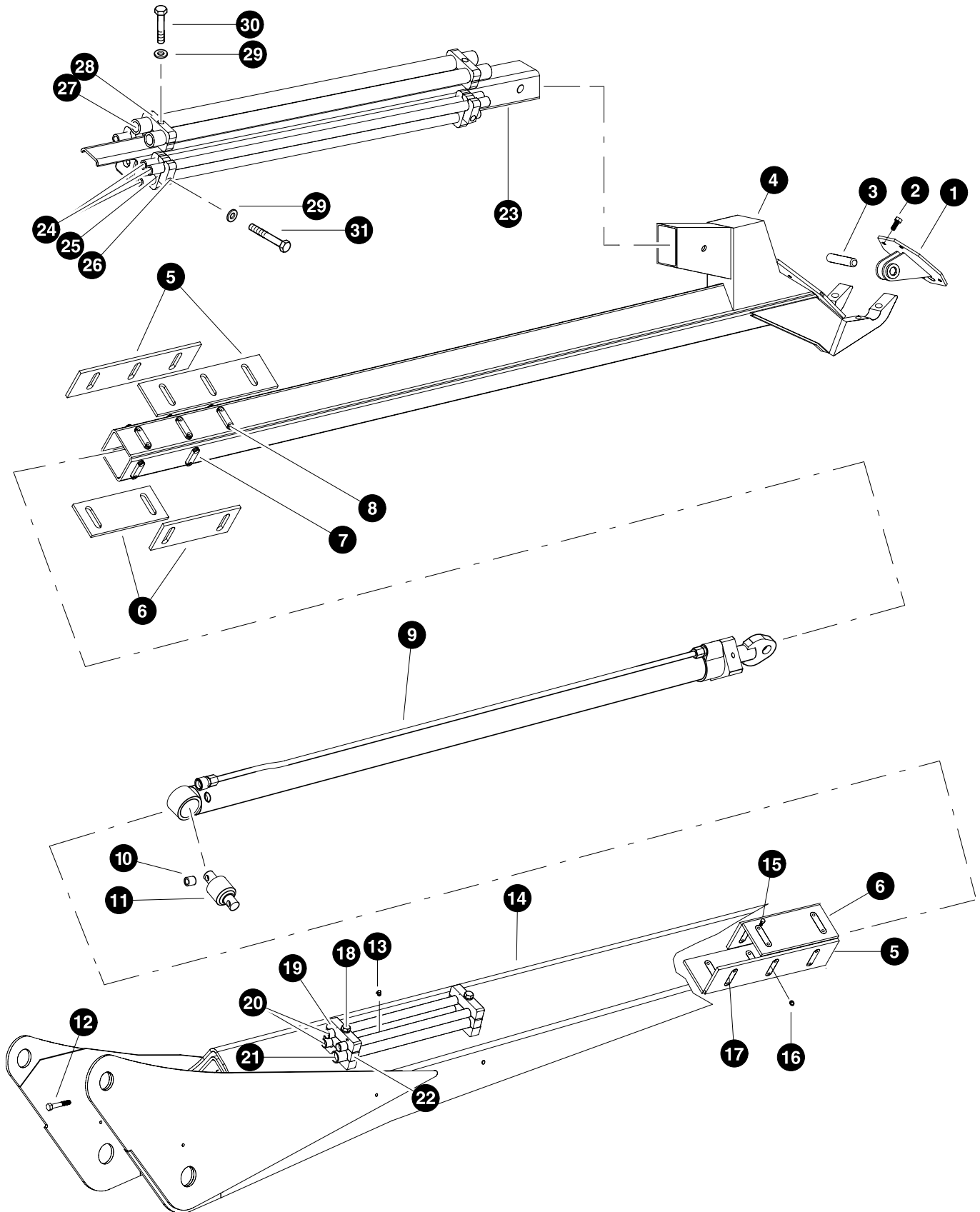


Parts T3325 09/23/05
12.5

SQUIRT BOOM COMPONENTS (Harvester - Heavy Duty 8" Tube)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
	52087HAR-LB	1	☐	BOOM, SQUIRT - Harvester Stinger	
1	---	1		CYLINDER ANCHOR (XB2017) before Boom SN 52087-132	
1	---	1		CYLINDER ANCHOR (XB2017R1) SN 52087-132 and After	
2	15502-LB	4		BOLT, 5/8 X 1.5	
3	---	1		PIN (XB2015) before Boom SN 52087-132	
3	---	1		PIN (XB2016) SN 52087-132 and After	
4	-LB	1		SLIDE, SQUIRT HD 8" 4-Bar Harvester Stinger	
5	10815-LB	1		NUT, lock 1/2"	
6	10836-LB	1		BOLT - 1/2" x 5-1/2"	
7	21065-LB	1		PLATE, bulkhead stinger	
8	21064-LB	1		SHACKLE, screw pin anchor 1/2"	
9	---	4		WEAR PAD, long (XB3016)	
-	---	4		SHIM, long wear pad (XB3016S)	
10	---	4		WEAR PAD, short (XB3015)	
-	---	4		SHIM, long wear pad (XB3015S)	
11	---	20		SCREWS, 3/8 X 3/4 brass (XB5001)	
12	---	10		PUCKS, retaining - countersunk (XB3021)	
13	REF	1		CYLINDER, squirt boom 6'	LB-3
14	10719-LB	2		BOLT, 5/8 X 4"	
15	---	2		SPACER, squirt cylinder mount (XB4081)	
16	---	1		BUSHING, squirt cyl rear (HEN 44695)	
17	10816-LB	2		NUT, LOCK - .625"	
18	---	20		BOLT, 3/8 X 7/8 bronze (XB5007)	
19	---	8		PUCKS, retaining - (XB3020)	
-	---	2		PUCKS, retaining - tapped for grease zerk(XB3020 Z)	
20	52198-LB	1		SHELL, SQUIRT HD 8" 4-bar STD	
21	21063-LB	1		WELDMENT, squirt boom stinger (XB2008)	
22	---	1		BRACKET, stinger mount - weld on (XB2009)	

☐ Kit or Assembly - includes all items indented underneath.

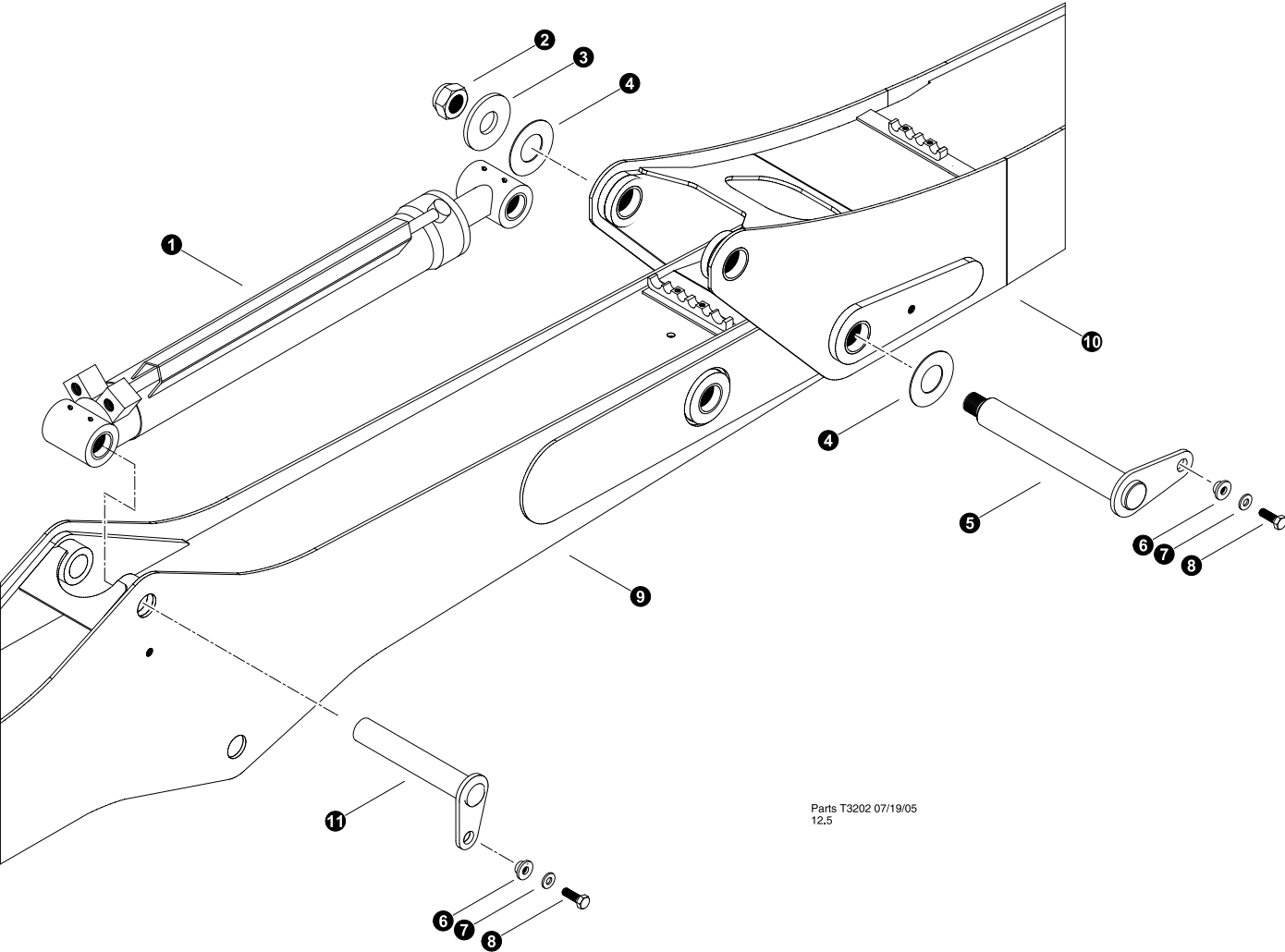


Parts T3331 10/01/05
9,375

SQUIRT BOOM COMPONENTS (Combo Harvester - Heavy Duty 8" Tube)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
	52087COM-LB	1	☐	BOOM, SQUIRT - Combo Stinger	
1	---	1		CYLINDER ANCHOR (XB2017) before Boom SN 52087-132	
1	---	1		CYLINDER ANCHOR (XB2017R1) SN 52087-132 and After	
2	15502-LB	4		BOLT, 5/8 X 1.5	
3	---	1		PIN (XB2015) before Boom SN 52087-132	
3	---	1		PIN (XB2016) SN 52087-132 and After	
4	52189-LB	1		SLIDE, SQUIRT 4-Bar COMBO (0307-051809 and Before)	
4	53912-LB	1		SLIDE, SQUIRT 4-Bar COMBO (0308-060409 and After)	
5	---	4		WEAR PAD, long (XB3016)	
-	---	4		SHIM, long wear pad (XB3016S)	
6	---	4		WEAR PAD, short (XB3015)	
-	---	4		SHIM, long wear pad (XB3015S)	
7	---	10		PUCKS, retaining - countersunk (XB3021)	
8	---	20		SCREWS, 3/8 X 3/4 brass (XB5001)	
9	REF.	1		CYLINDER, squirt boom 6'	LB-3
10	---	2		SPACER, squirt cylinder mount (XB4081)	
11	---	1		BUSHING, squirt cyl rear (HEN 44695)	
12	10719-LB	2		BOLT, 5/8 X 4"	
13	15682-LB	2		FITTING, grease .125 - 90	
14	52190-LB	1		SHELL, SQUIRT HD 8" 4-bar COMBO	
15	---	20		BOLT, 3/8 X 7/8 bronze (XB5007)	
16	10704-LB	2		FITTING, grease .125 - str.	
17	---	8		PUCKS, retaining - (XB3020)	
-	---	2		PUCKS, retaining - tapped for grease zerk(XB3020 Z)	
18	15526-LB	4		BOLT - .625" X 2"	
19	15272-LB	4		CLAMP, SADDLE TOP TUBE - .5" & .5"	
20	19495-LB	5		TUBELINE - .5" X 24"	
21	19497-LB	2		TUBELINE - 1" X 24"	
22	40953-LB	4		CLAMP, SADDLE - DRILLED - .5" X 1"	
23	52193-LB	1		STINGER TUBE, ATTACHMENT ASSEMBLY (quick change)	
24	19679-LB	5		TUBELINE - .5" X 48"	
25	15272-LB	4		CLAMP, SADDLE TOP TUBE - .5" & .5"	
26	42237-LB	2		CLAMP, SADDLE TOP TUBE - .5"	
27	19681-LB	2		TUBELINE - 1" X 48"	
28	12447-LB	2		CLAMP, SADDLE TOP TUBE - 1" & 1"	
29	10771-LB	6		WASHER, SAE FLAT - .625"	
30	15681-LB	4		BOLT - .625" X 2.25"	
31	10720-LB	2		BOLT - .625" X 3"	

☐ Kit or Assembly - includes all items indented underneath.



Parts T3202 07/19/05
12.5

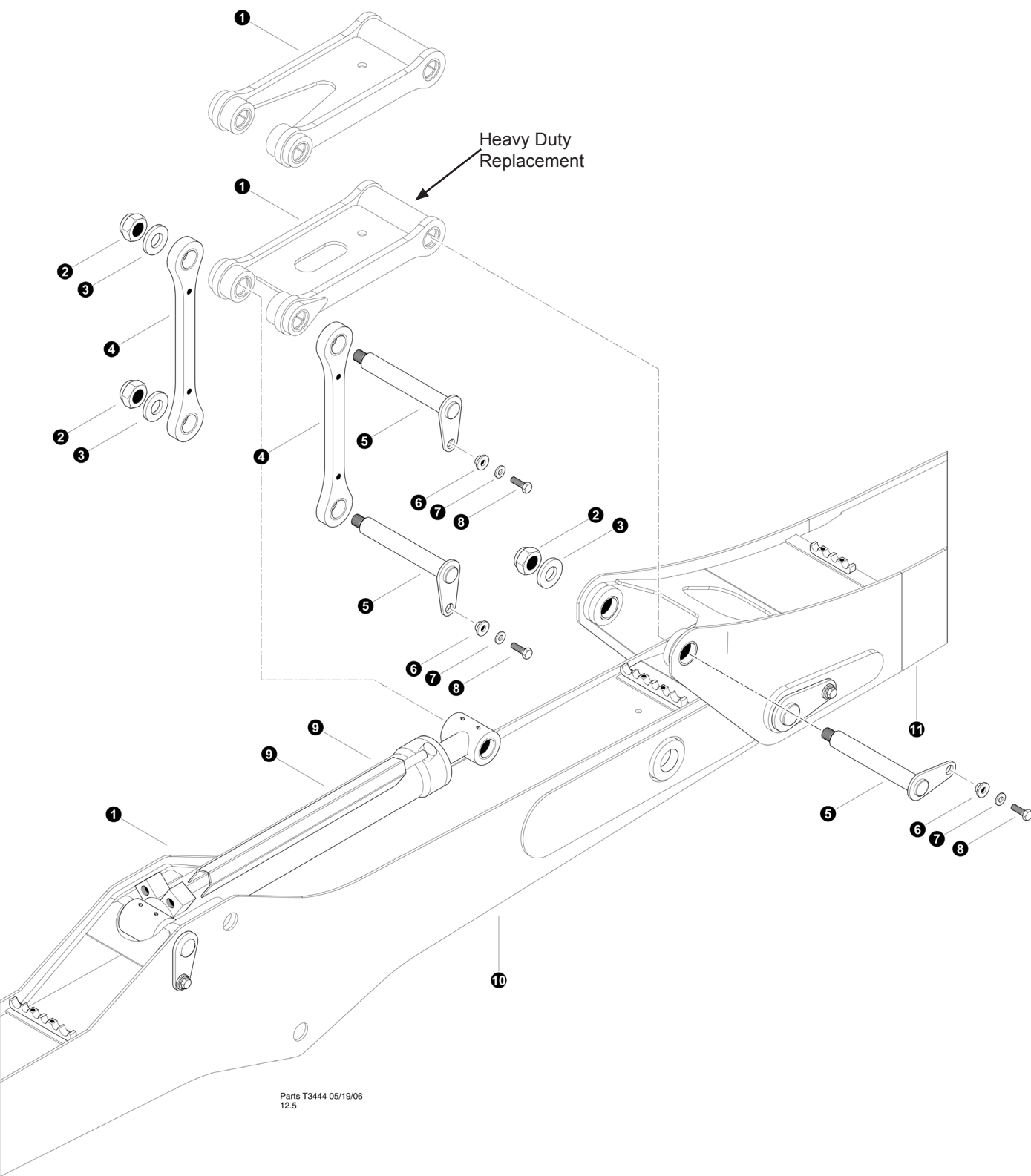
STICK BOOM INSTALLATION

(Installation the same for squirt boom)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	REF	1	STICK BOOM CYLINDER.....	LB-3
2	10728-LB	1	NUT, nylock - 2"	
3	19384-LB	1	WASHER, burned	
4	19150-LB	AR	SHIM - 1/4" thick	
	16633-LB	AR	SHIM - 7 gauge	
	16637-LB	AR	SHIM - 10 gauge	
	16638-LB	AR	SHIM - 14 gauge	
5	51440-LB	1	PIN ASSEMBLY, 2.99 DIA X 21.5 (2" NUT)	
6	18570-LB	1	WASHER, pin retaining	
7	15550-LB	1	WASHER, SAE flat - 3/4"	
8	15549-LB	1	BOLT - 3/4" x 2"	
9	REF.	1	 MAIN BOOM ASSEMBLY	LB-1
10	REF.	1	 STICK BOOM ASSEMBLY.....	LB-2
11	51643-LB	1	PIN ASSEMBLY, 2.49 DIA X 13.13"	



See referenced page for component or assembly breakdown.



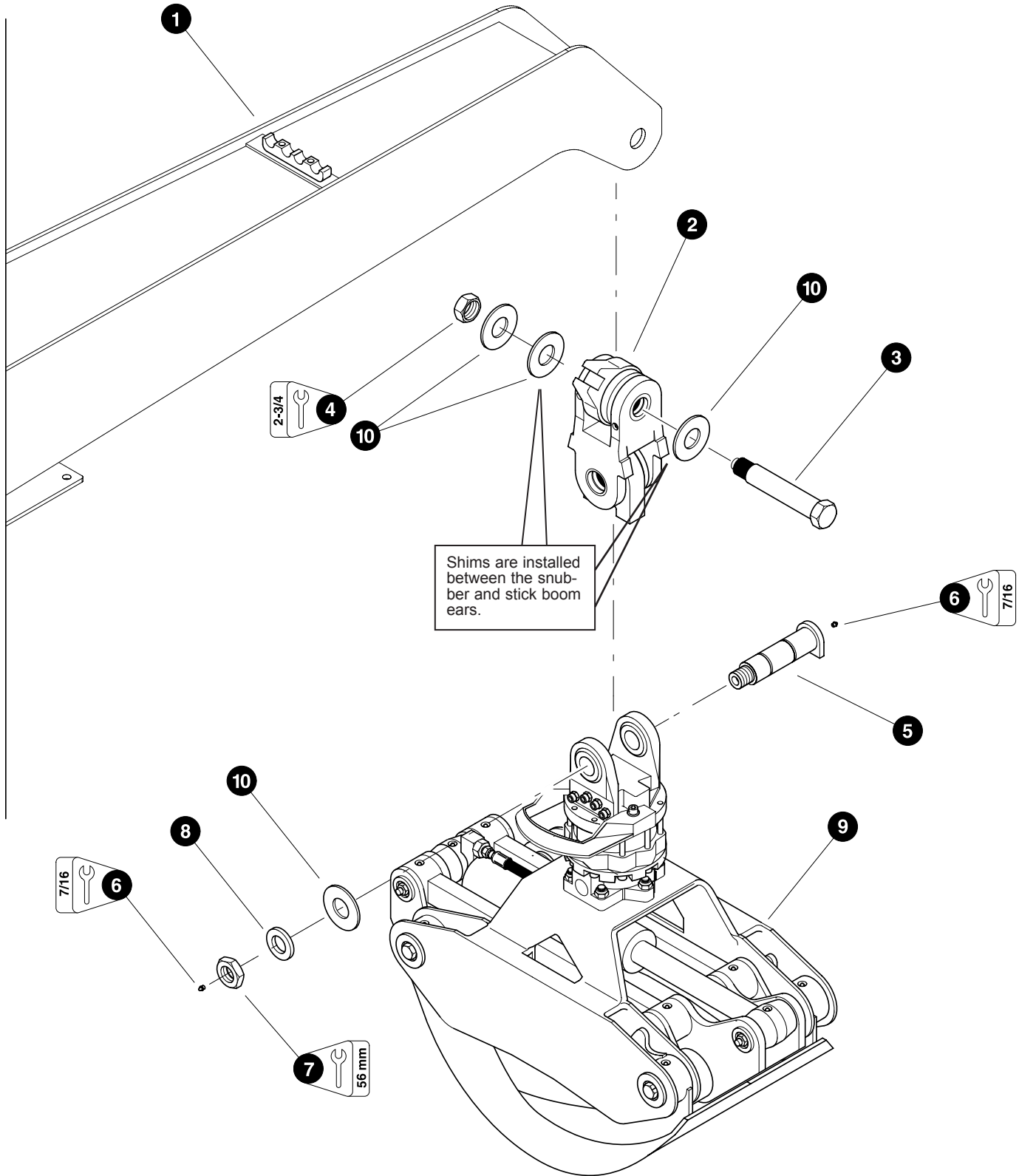
STICK BOOM 4 - BAR LINK INSTALLATION

(Installation the same for squirt boom)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	52150-LB	1	LINK, CYLINDER 28.5"	
2	10728-LB	1	NUT, nylock - 2"	
3	12021-LB	3	WASHER, BURNED	
4	52151-LB	2	LINK, DOGBONE 27"	
5	42245-LB	3	PIN ASSEMBLY, 2.49 DIA X 19.13 (2" NUT)	
6	18570-LB	3	WASHER, pin retaining	
7	15550-LB	3	WASHER, SAE flat - 3/4"	
8	15549-LB	3	BOLT - 3/4" x 2"	
9	REF	1	STICK BOOM CYLINDER 45" Stroke	LB-3
10	REF.	1	 MAIN BOOM ASSEMBLY	LB-1
11	REF.	1	 SQUIRT BOOM ASSEMBLY	LB-2



See referenced page for component or assembly breakdown.



Parts T3205 07/14/05
12.50

HULTDINS SUPERGRIP 360S GRAPPLE INSTALLATION

(With Optional QUADCO Snubber)

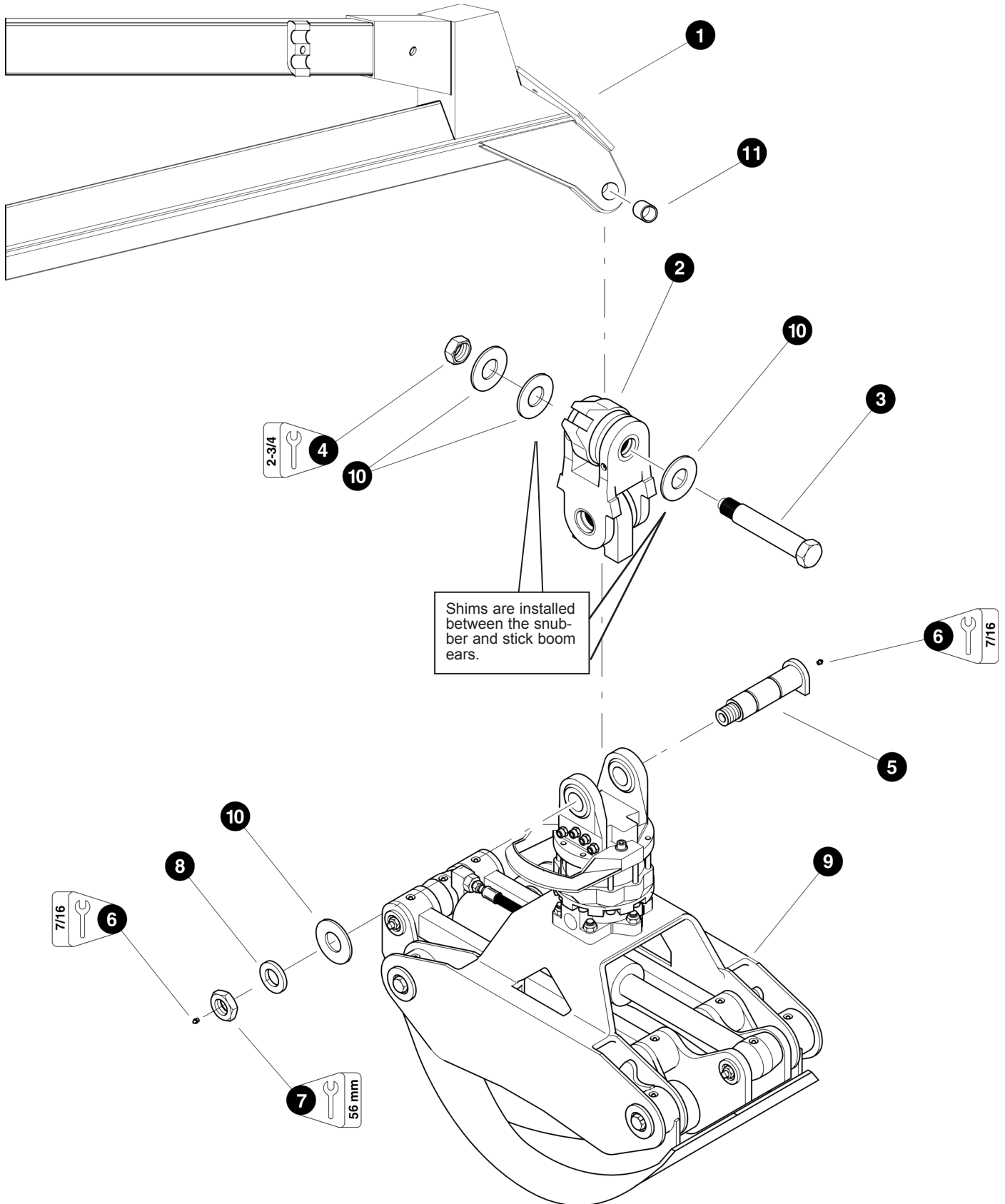
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		STICK BOOM ASSEMBLY.....	LB-2
2	REF.	1		SNUBBER, Quadco	LB-2
3	23528-LB	1		PIN - 1-3/4" x 10-3/4" (0307-051809 and Before)	
3	53720-LB	1		PIN - 2" x 10-3/4" (0308-060409 and After)	
4	20811-LB	1		NUT, nylock - 1-1/2"	
5	19789-LB	1		PIN, grapple mount	
6	10704-LB	2		FITTING, grease - 1/8" pipe thread	
7	50281-LB	1		NUT, grapple mount pin	
8	50282-LB	1		WASHER, grapple mount pin	
9	REF.	1		GRAPPLE - Hultdins 360S (See Manufacturer's Manual)	
10	19682-LB	4		SHIM, 1.75 X .075	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Parts T2750 07/14/03
12.50

HULTDINS SUPERGRIP 360S GRAPPLE INSTALLATION

(Optional Squirt Boom Instalation)

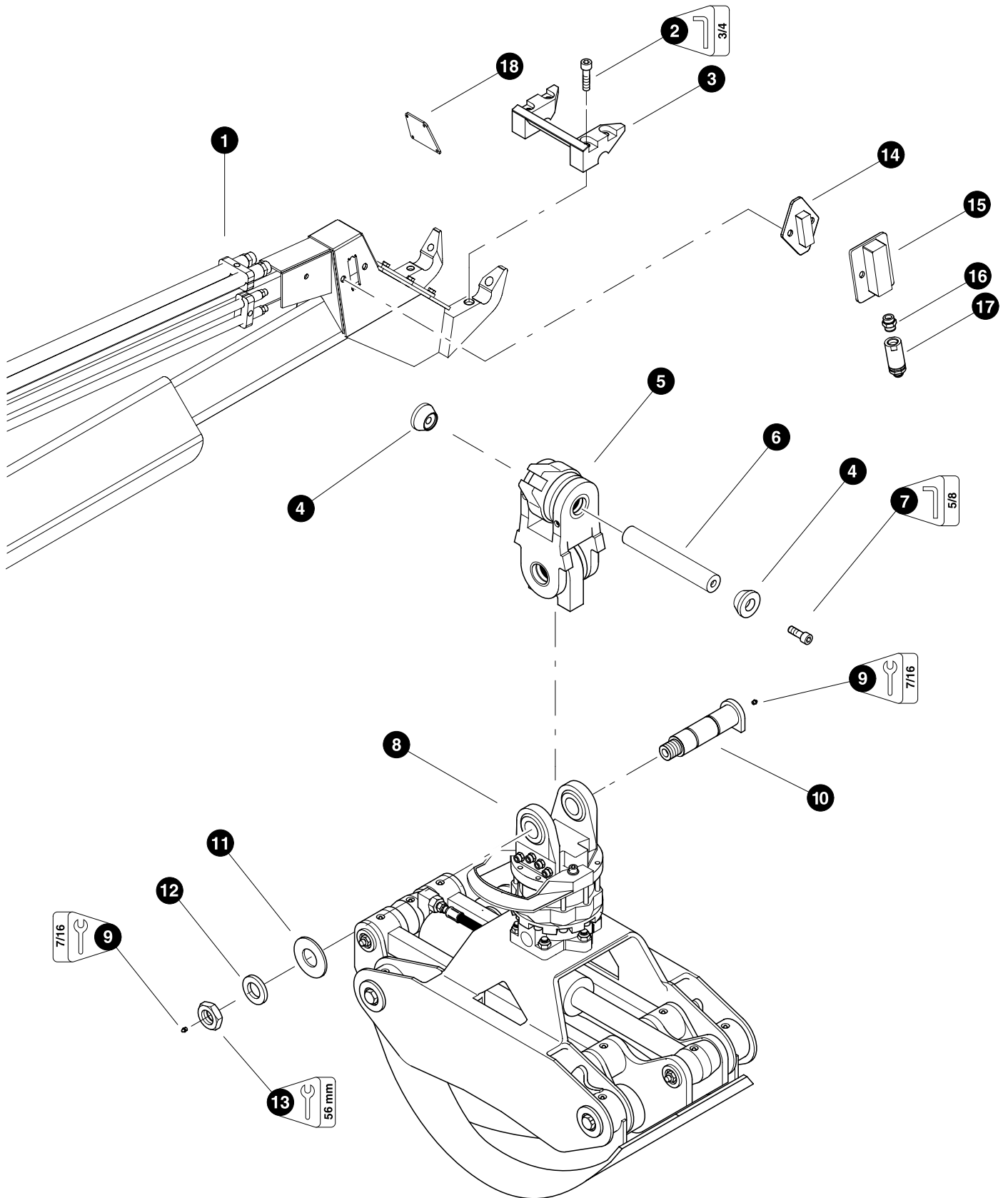
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		STICK BOOM ASSEMBLY.....	LB-2
2	REF.	1		SNUBBER, Quadco	LB-2
3	23528-LB	1		PIN - 1-3/4" x 10-3/4" (0307-051809 and Before)	
3	53720-LB	1		PIN - 2" x 10-3/4" (0308-060409 and After)	
4	20811-LB	1		NUT, nylock - 1-1/2"	
5	19789-LB	1		PIN, grapple mount	
6	10704-LB	2		FITTING, grease - 1/8" pipe thread	
7	50281-LB	1		NUT, grapple mount pin	
8	50282-LB	1		WASHER, grapple mount pin	
9	REF.	1		GRAPPLE - Hultdins 360S (<i>See Manufacturer's Manual</i>)	
10	19682-LB	4		SHIM, 1.75 X .075	
11	19117-LB	2		BUSHING - 1.75" X 1.5"	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Parts T2917 10/01/03
12.50

HULTDINS SUPERGRIP 360S GRAPPLE INSTALLATION

(Optional - Combo Squirt Boom Instalation)

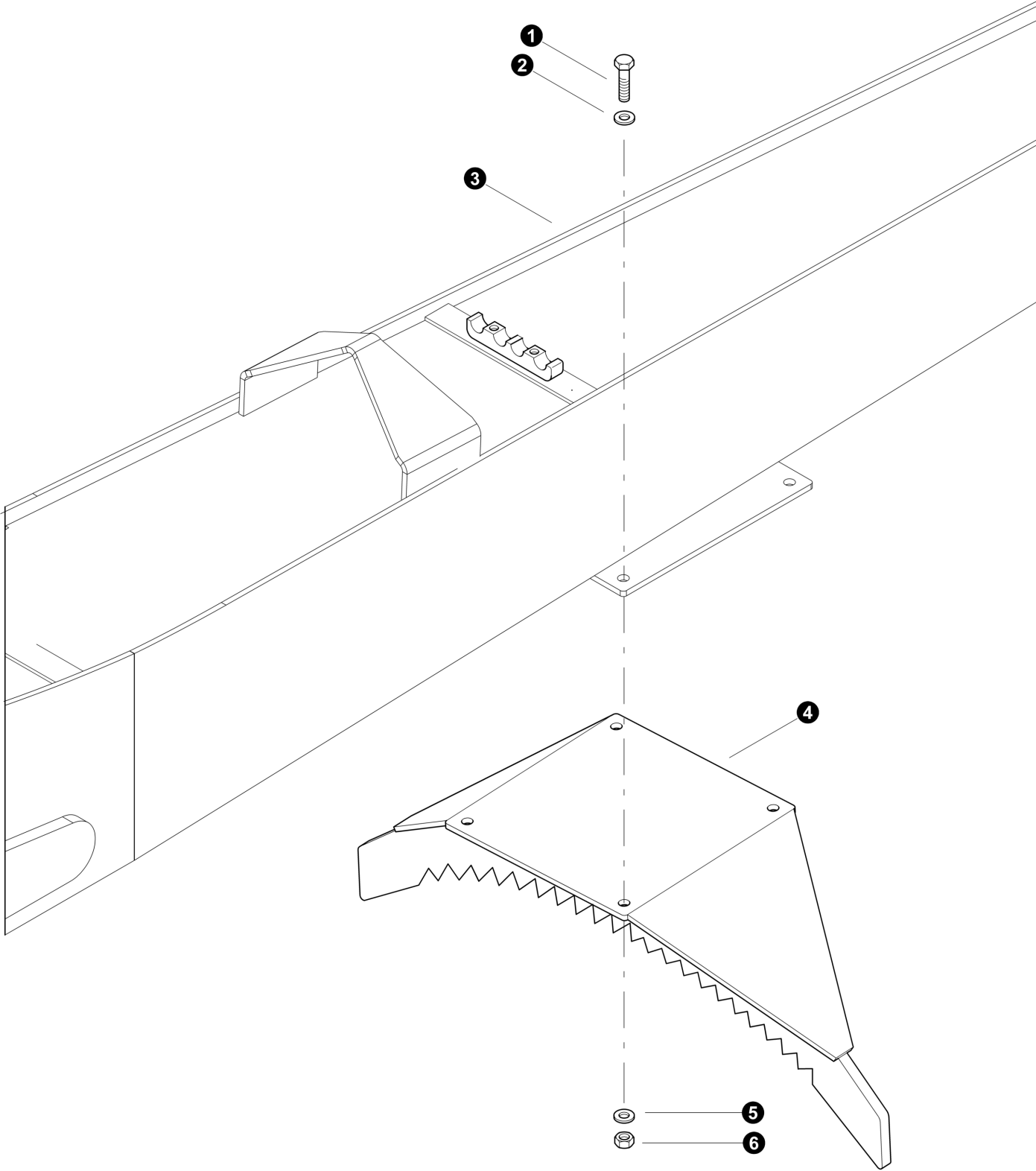
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		SQUIRT BOOM ASSEMBLY	LB-2
2	51218-LB	4		BOLT, ALLEN HEAD - .875" X 3.5"	
3	51219-LB	1		CLAMP, QUICK CHANGE (TOP) (0307-051809 and Before)	
3	53913-LB	1		CLAMP, QUICK CHANGE (TOP) (0308-060409 and After)	
4	40674-LB	2		TAPPER, Quick Change Pin (0307-051809 and Before)	
4	53722-LB	2		TAPPER, Quick Change Pin (0308-060409 and After)	
5	REF.	1		SNUBBER, Quadco	LB-2
6	40673-LB	2		PIN, 1.75" (quick change) (0307-051809 and Before)	
6	53721-LB	2		PIN, 2" (quick change) (0308-060409 and After)	
7	51217-LB	4		BOLT, ALLEN HEAD - .875" X 2"	
8	REF.	1		GRAPPLE - Hultdins 360S	LB-4
9	10704-LB	2		FITTING, grease - 1/8" pipe thread	
10	19789-LB	1		PIN, grapple mount	
11	19682-LB	4		SHIM, 1.75 X .075	
12	50282-LB	1		WASHER, grapple mount pin	
13	50281-LB	1		NUT, grapple mount pin	
14	40704-LB	1		COVER, FRONT PLATE (quick change)	
15	40681-LB	1		COVER, QUICK CHANGE ELEC CONNECTOR	
16	19473-LB	1		CONNECTOR, STR - 6403-16	
17	19541-LB	1		SWIVEL, INLINE	
18	40703-LB	1		COVER, ELECTRICAL (quick change)	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

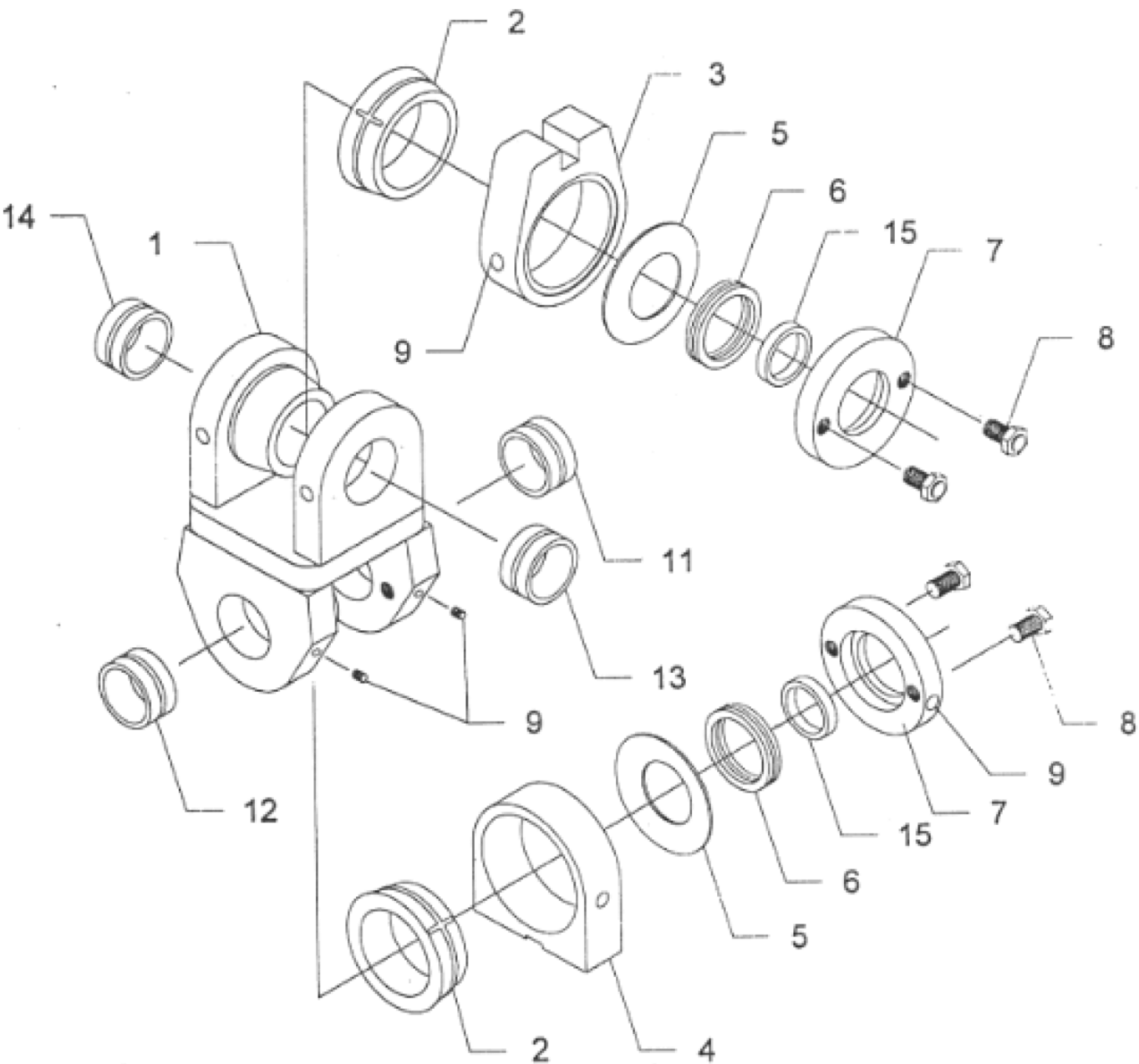


OPTIONAL STICK BOOM MOUNTED HEEL

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	10736-LB	4		BOLT - 1/2" x 2"	
2	15534-LB	8		WASHER, SAE flat - 1/2"	
3	REF.	1		STICK BOOM ASSEMBLY.....	LB-2
4	51565-LB	1		WELDMENT, stick boom heel	
5	10815-LB	4		NUT, lock - 1/2"	



See referenced page for component or assembly breakdown.



QUADCO SNUBBER BREAKDOWN

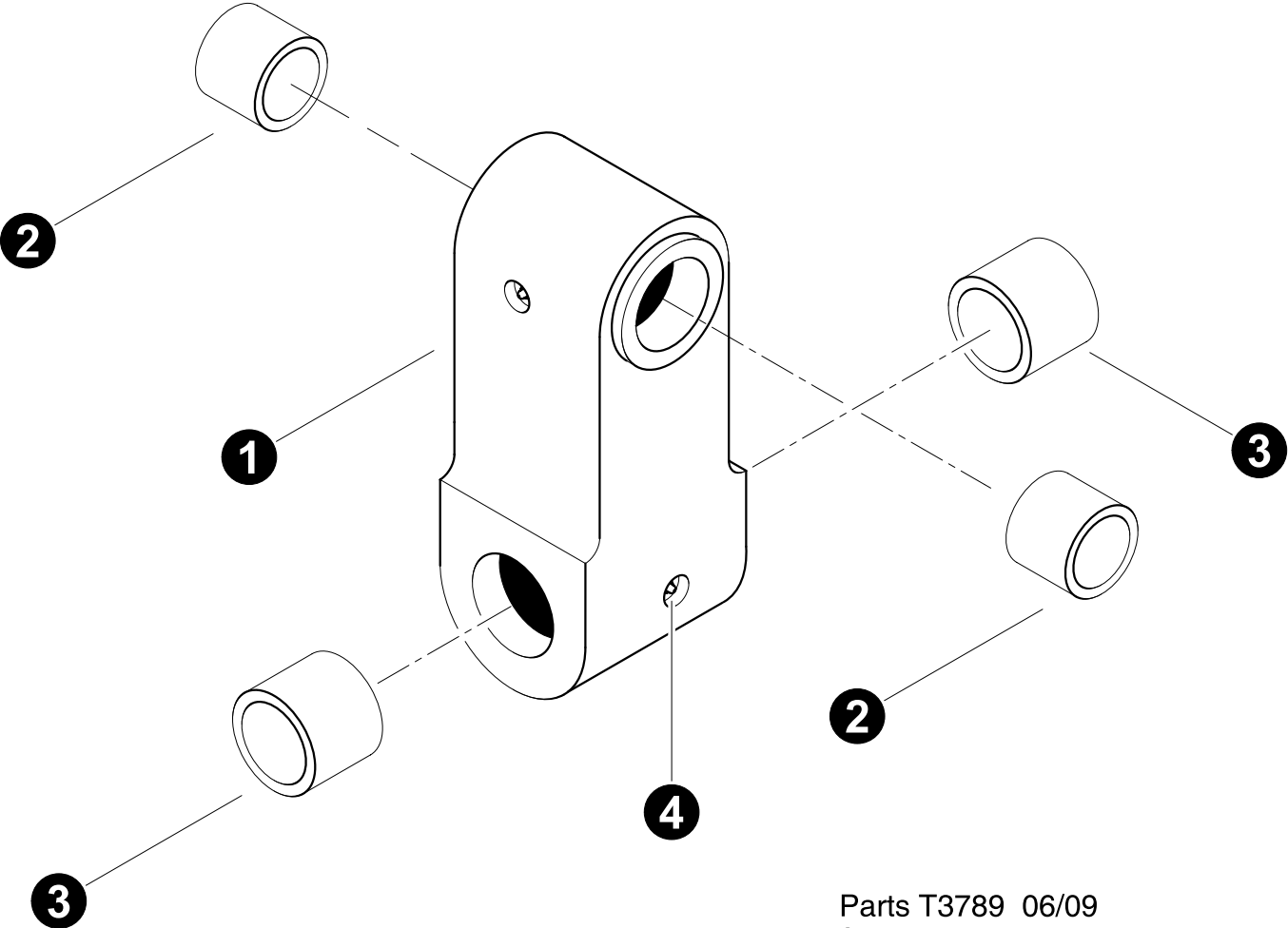
REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	19790-LB	1	☐	SNUBBER (Quadco) (0307-051809 and Before)	
-	53855-LB	1	☐	SNUBBER, (Quadco) (0308-060409 and After)	
1	-LB	1		LINK ASSEMBLY - HEAVY DUTY	
2	-LB	2		FRICTION SLEEVE (COMPOSITE MATERIAL) (B3T-1015G)	
2	-LB	2		FRICTION SLEEVE (ZINC ALLOY) (B3T-1175) - optional	
3	-LB	1		SLOT HOUSING (B3T-1135)	
4	-LB	1		FOOT HOUSING (B3T-1140)	
5	-LB	2		SPRING WASHER (B3T-1030)	
6	-LB	2		BEARING (B3T-1035)	
7	-LB	2		PRESSURE PLATE (B3T-1040)	
8	-LB	4		ADJUSTING BOLT (B3T-1045)	
9	-LB	10		ZERK (B3T-1130)	
11	-LB	1		BUSHING - 2.06" ID X 1.125" (B3T-1150S)	
12	-LB	1		BUSHING - 2.06" ID X 2.45" (B3T-1085S)	
13	-LB	1		BUSHING - 1.758" ID(B3T-1165S) (0307-051809 and Before)	
13	-LB	1		BUSHING - 2.008" ID() (0308-060409 and After)	
14	-LB	1		BUSHING - 1.758" ID X 2.45" (B3T-1125S)	
15	-LB	2		BEARING SEAL (B3T-1180)	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Parts T3789 06/09
25

ADAPTER LINK BREAKDOWN

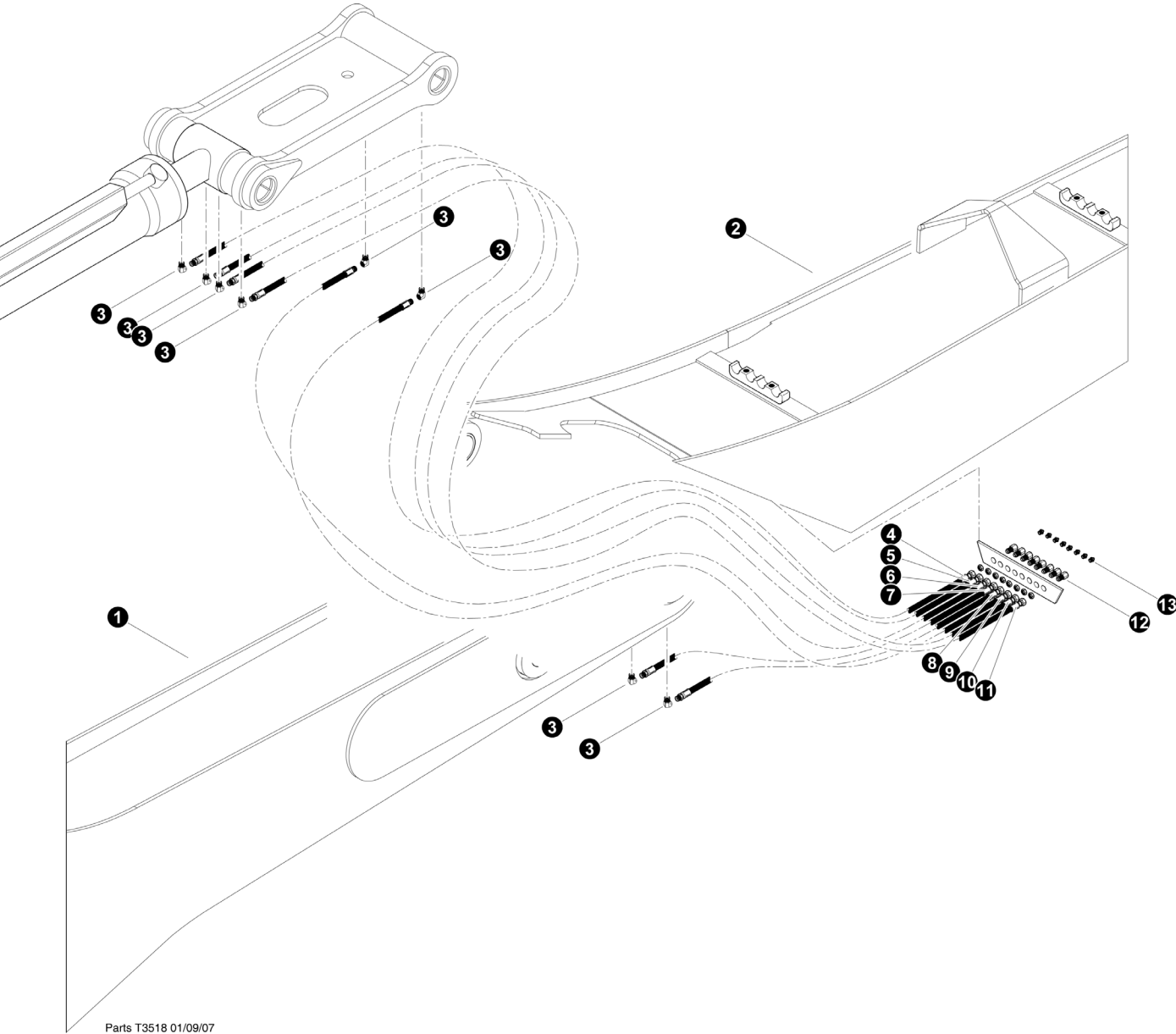
REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	52492-LB	1	ADAPTER, DANGLE - GV-2.05 x 1.75	
1	53910-LB	1	ADAPTER, DANGLE - GV-2.05 x 2.0	
2	53633-LB	2	BUSHING - 1.75 X 2.25 - (0307-051809 and Before)	
2	53894-LB	2	BUSHING - 2 X 2.25 - (0308-060409 and After)	
3	52493-LB	2	BUSHING - 2.058" X 2"	
4	10704-LB	2	FITTING, GREASE - .125 NPT - STR	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



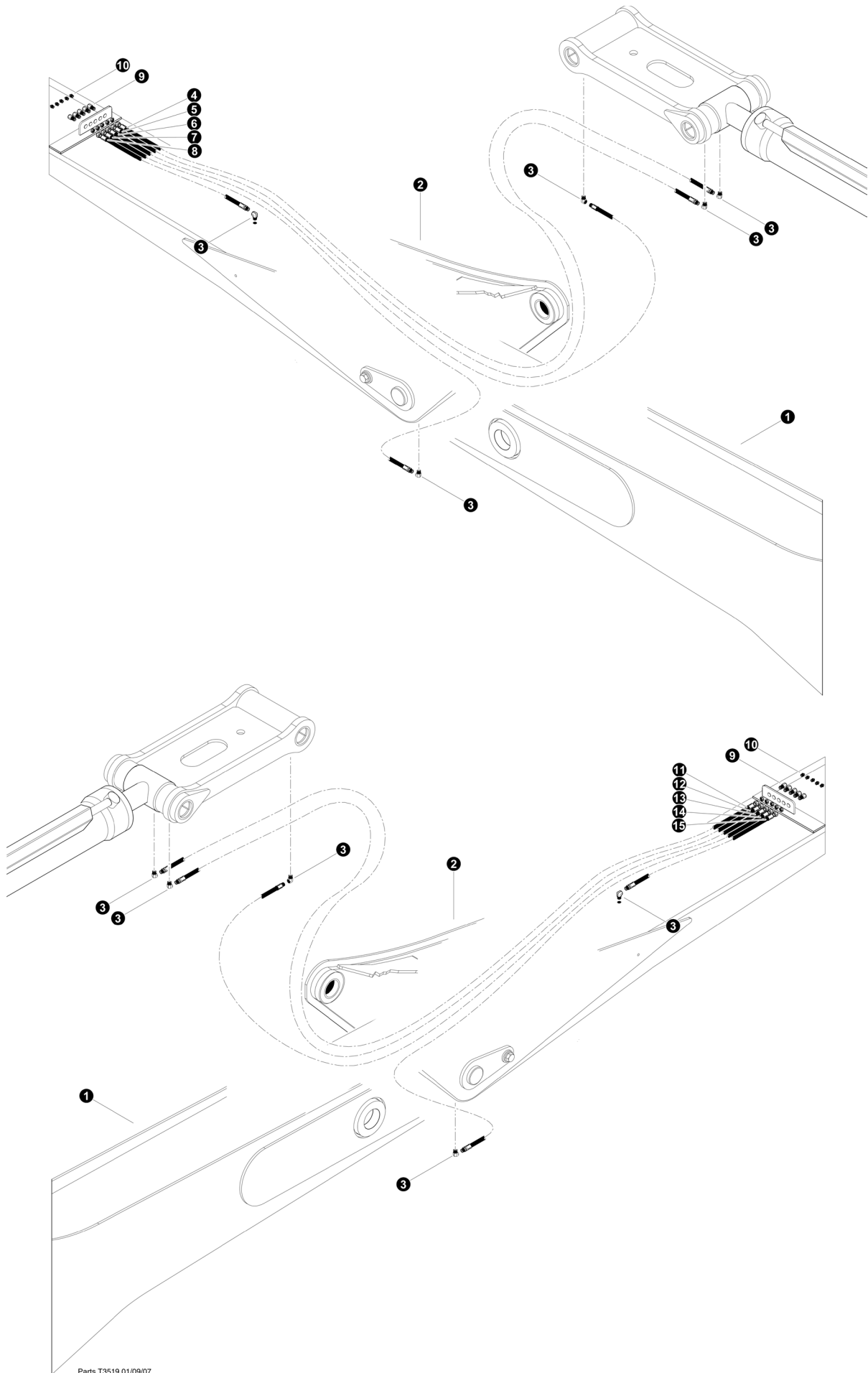
Grease Lines Installation

(4-Bar Link and Standard Stick Boom)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MAIN BOOM ASSEMBLY	LB-1
2	REF.	1		STICK BOOM ASSEMBLY.....	LB-2
3	22281-LB	8		ELBOW, 90 - 5546132	
4		1		HOSE ASSEMBLY, 2061-02-02PS-04JS (part of kit # 51978)	
5		1		HOSE ASSEMBLY, 2061-02-02PS-04JS (part of kit # 51978)	
6		1		HOSE ASSEMBLY, 2041-02-02PS-04JS (part of kit # 51978)	
7		1		HOSE ASSEMBLY, 2030-02-02PS-04JS (part of kit # 51978)	
8		1		HOSE ASSEMBLY, 2030-02-02PS-04JS (part of kit # 51978)	
9		1		HOSE ASSEMBLY, 2041-02-02PS-04JS (part of kit # 51978)	
10		1		HOSE ASSEMBLY, 2061-02-02PS-04JS (part of kit # 51978)	
11		1		HOSE ASSEMBLY, 2061-02-02PS-04JS (part of kit # 51978)	
12	15658-LB	8		CONNECTOR, STR BULKHEAD - 2239-2-4S	
13	10704-LB	8		FITTING, GREASE - .125 NPT - STR 5	



See referenced page for component or assembly breakdown.



Parts T3519 01/09/07
12.5

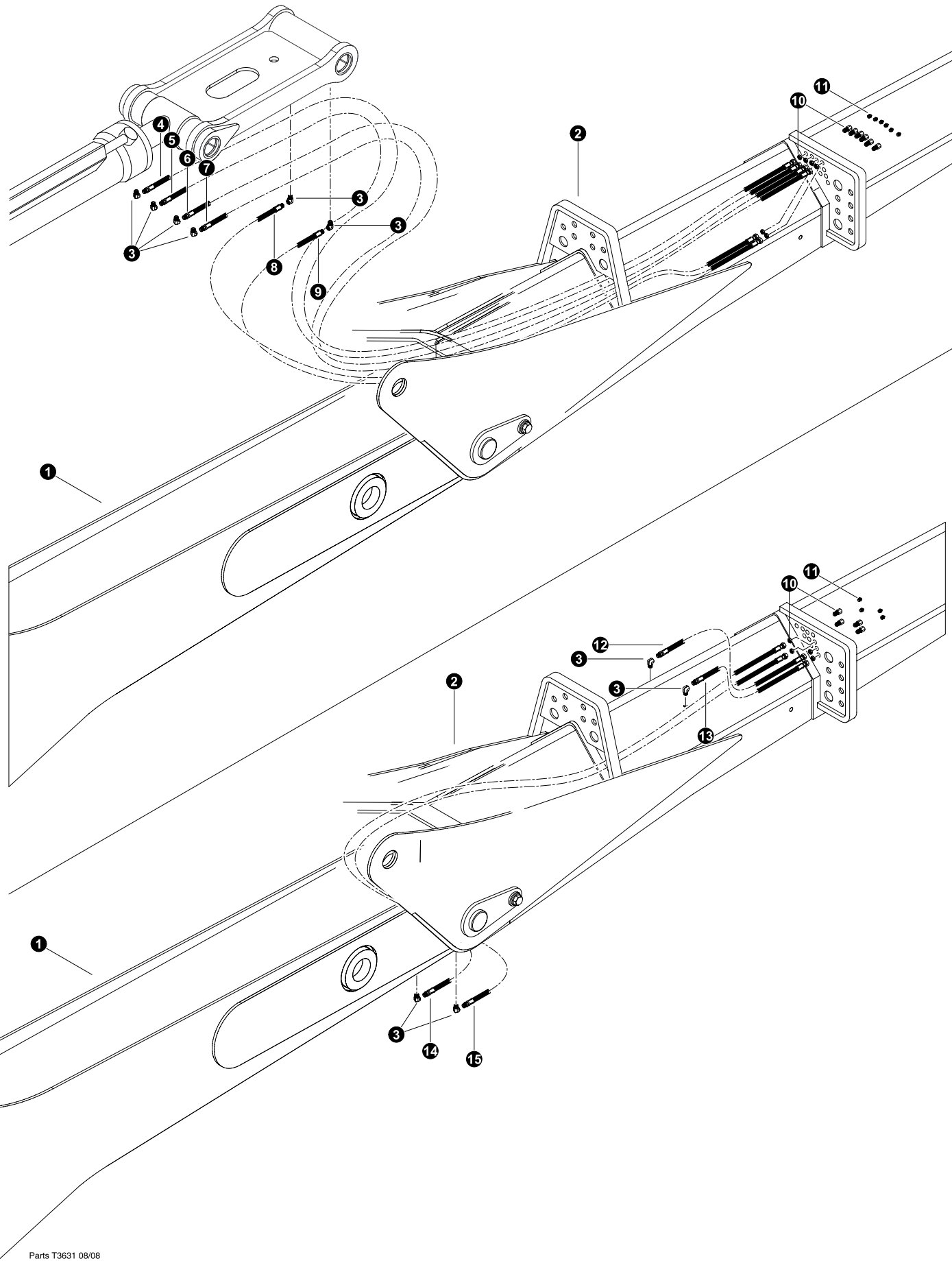
Grease Lines Installation

(4-Bar Link and Forwarder Squirt Boom)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MAIN BOOM ASSEMBLY	LB-1
2	REF.	1		STICK BOOM ASSEMBLY.....	LB-2
3	22281-LB	8		ELBOW, 90 - 5546132	
4		1		HOSE ASSEMBLY, 2108-02-02PS-04JS (part of kit # 52205)	
5		1		HOSE ASSEMBLY, 2108-02-02PS-04JS (part of kit # 52205)	
6		1		HOSE ASSEMBLY, 2092-02-02PS-04JS (part of kit # 52205)	
7		1		HOSE ASSEMBLY, 2075-02-02PS-04JS (part of kit # 52205)	
8		1		HOSE ASSEMBLY, 2039-02-02PS-04JS (part of kit # 52205)	
9	15658-LB	8		CONNECTOR, STR BULKHEAD - 2239-2-4S	
10	10704-LB	8		FITTING, GREASE - .125 NPT - STR 5	
11		1		HOSE ASSEMBLY, 2108-02-02PS-04JS (part of kit # 52205)	
12		1		HOSE ASSEMBLY, 2108-02-02PS-04JS (part of kit # 52205)	
13		1		HOSE ASSEMBLY, 2092-02-02PS-04JS (part of kit # 52205)	
14		1		HOSE ASSEMBLY, 2075-02-02PS-04JS (part of kit # 52205)	
15		1		HOSE ASSEMBLY, 2039-02-02PS-04JS (part of kit # 52205)	



See referenced page for component or assembly breakdown.



Grease Lines Installation

(4-Bar Link and Harvester Squirt Boom)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		MAIN BOOM ASSEMBLY	LB-1
2	REF.	1		STICK BOOM ASSEMBLY.....	LB-2
3	22281-LB	8		ELBOW, 90 - 5546132	
4		1		HOSE ASSEMBLY, 2108-02-02PS-04JS (part of kit # 52205)	
5		1		HOSE ASSEMBLY, 2108-02-02PS-04JS (part of kit # 52205)	
6		1		HOSE ASSEMBLY, 2108-02-02PS-04JS (part of kit # 52205)	
7		1		HOSE ASSEMBLY, 2108-02-02PS-04JS (part of kit # 52205)	
8		1		HOSE ASSEMBLY, 2092-02-02PS-04JS (part of kit # 52205)	
9		1		HOSE ASSEMBLY, 2092-02-02PS-04JS (part of kit # 52205)	
10	15658-LB	8		CONNECTOR, STR BULKHEAD - 2239-2-4S	
11	10704-LB	8		FITTING, GREASE - .125 NPT - STR 5	
12		1		HOSE ASSEMBLY, 2039-02-02PS-04JS (part of kit # 52205)	
13		1		HOSE ASSEMBLY, 2032-02-02PS-04JS (part of kit # 52205)	
14		1		HOSE ASSEMBLY, 2075-02-02PS-04JS (part of kit # 52205)	
15		1		HOSE ASSEMBLY, 2075-02-02PS-04JS (part of kit # 52205)	

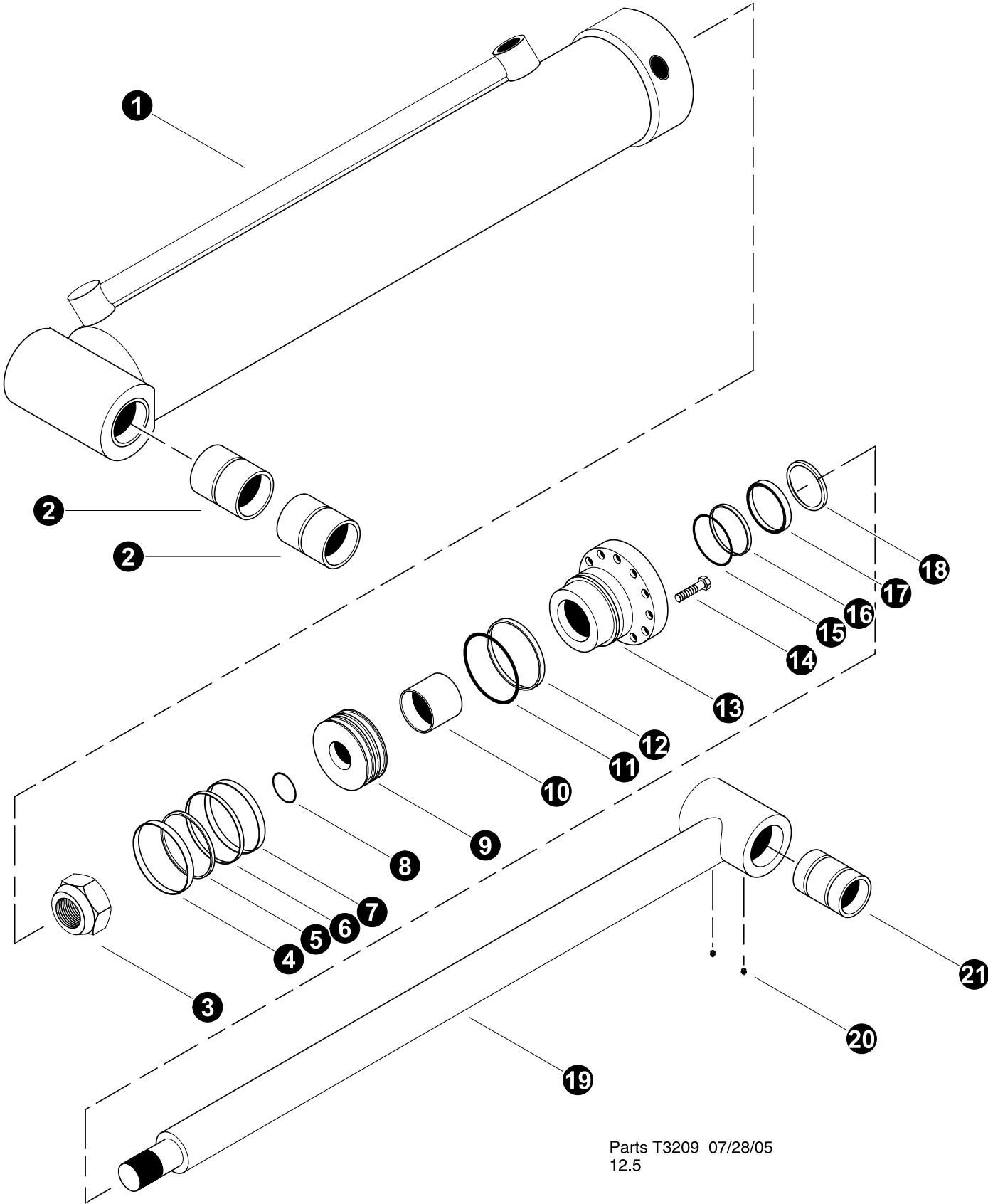


See referenced page for component or assembly breakdown.

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Section LB-3

Loader Booms - Cylinders

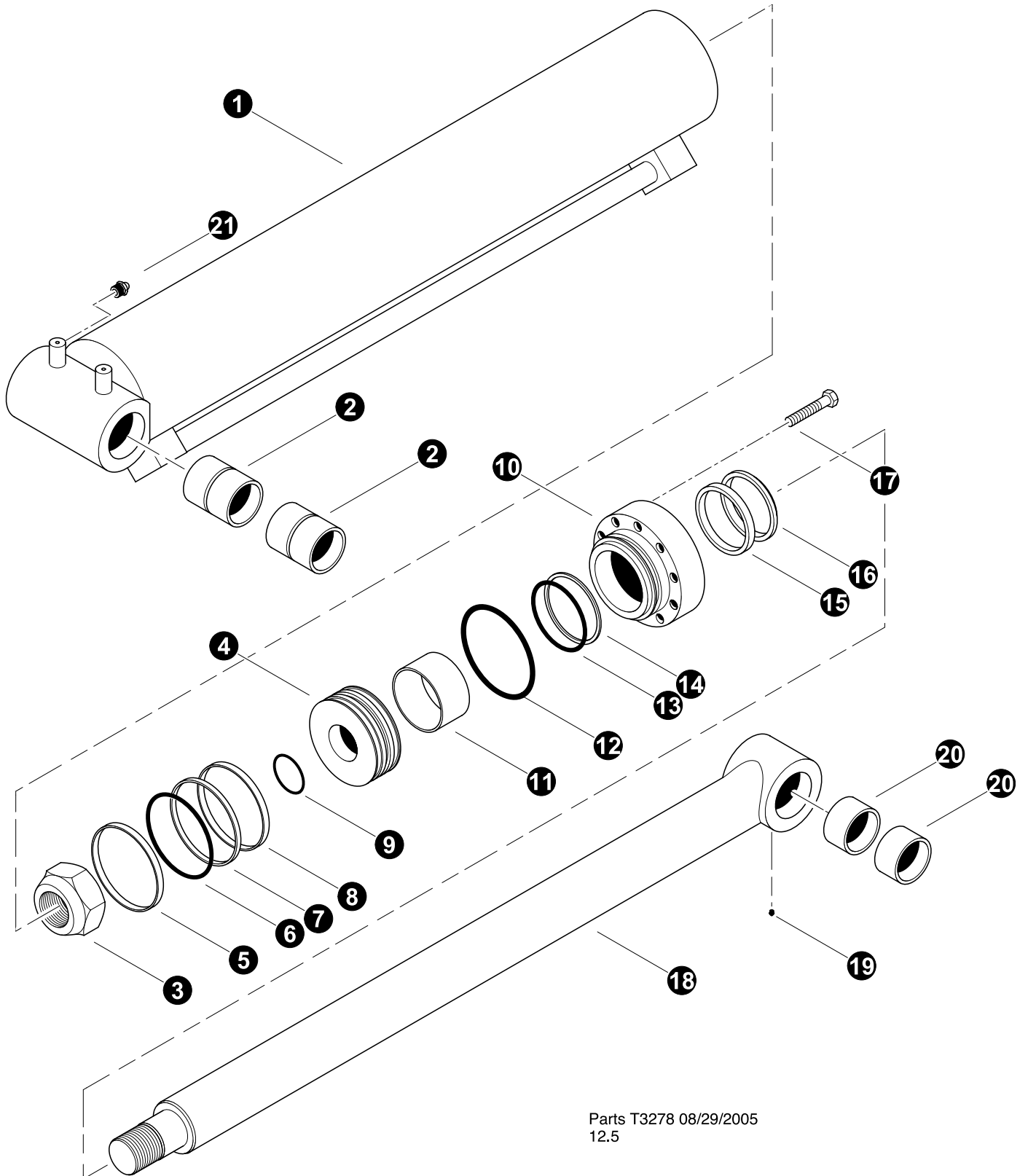


FORWARDER / HARVESTER MAIN BOOM (HOIST) CYLINDER (5.5" - 54" stroke)

(Please Verify Part Number Stamped on Base End of Cylinder Before Ordering Parts)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	52732-LB	1	☐	CYLINDER, MAIN - FWD 830 (5.5" / 54.0")	
1	-LB	1	☐	BARREL ASSEMBLY (203455B)	
2	11706-LB	2		BUSHING - 3" x 4-1/4"	
3	15287-LB	1		NUT, cylinder rod - 2" NF (Torque to 2700 +/- 200 ft.lbs. (3600 +/- 265 Nm))	
4	NSS	1	⌘	RING, piston	
5	NSS	1	⌘	RING, backup piston	
6	NSS	1	⌘	RING, piston	
7	NSS	1	⌘	RING, piston	
8	NSS	1	⌘	O-RING, piston	
9	23206-LB	1		PISTON (400619B)	
10	NSS	1	⌘	RING, rod bearing wear	
11	NSS	1	⌘	O-RING, rod bearing	
12	NSS	1	⌘	RING, rod bearing back-up	
13	-LB	1		BEARING, rod (500860B)	
14	-LB	12		BOLT - 5/8" (Torque to 175 ft.lbs (233 Nm))	
15	NSS	1	⌘	RING, rod bearing back-up	
16	NSS	1	⌘	RING, rod bearing	
17	NSS	1	⌘	U-CUP, rod bearing	
18	NSS	1	⌘	WIPER, rod	
19	-LB	1	☐	ROD ASSEMBLY (302140B)	
20	10704-LB	1		FITTING, straight grease - 1/8" pipe thread	
21	-LB	1		BUSHING	
-	52113-LB	1	⌘	KIT, SEAL REPAIR - MAIN CYL 830/630	

- ☐ Kit or Assembly - includes all items indented underneath.
 ⌘ Included in seal repair kit Part # 52113-LB.



Parts T3278 08/29/2005
12.5

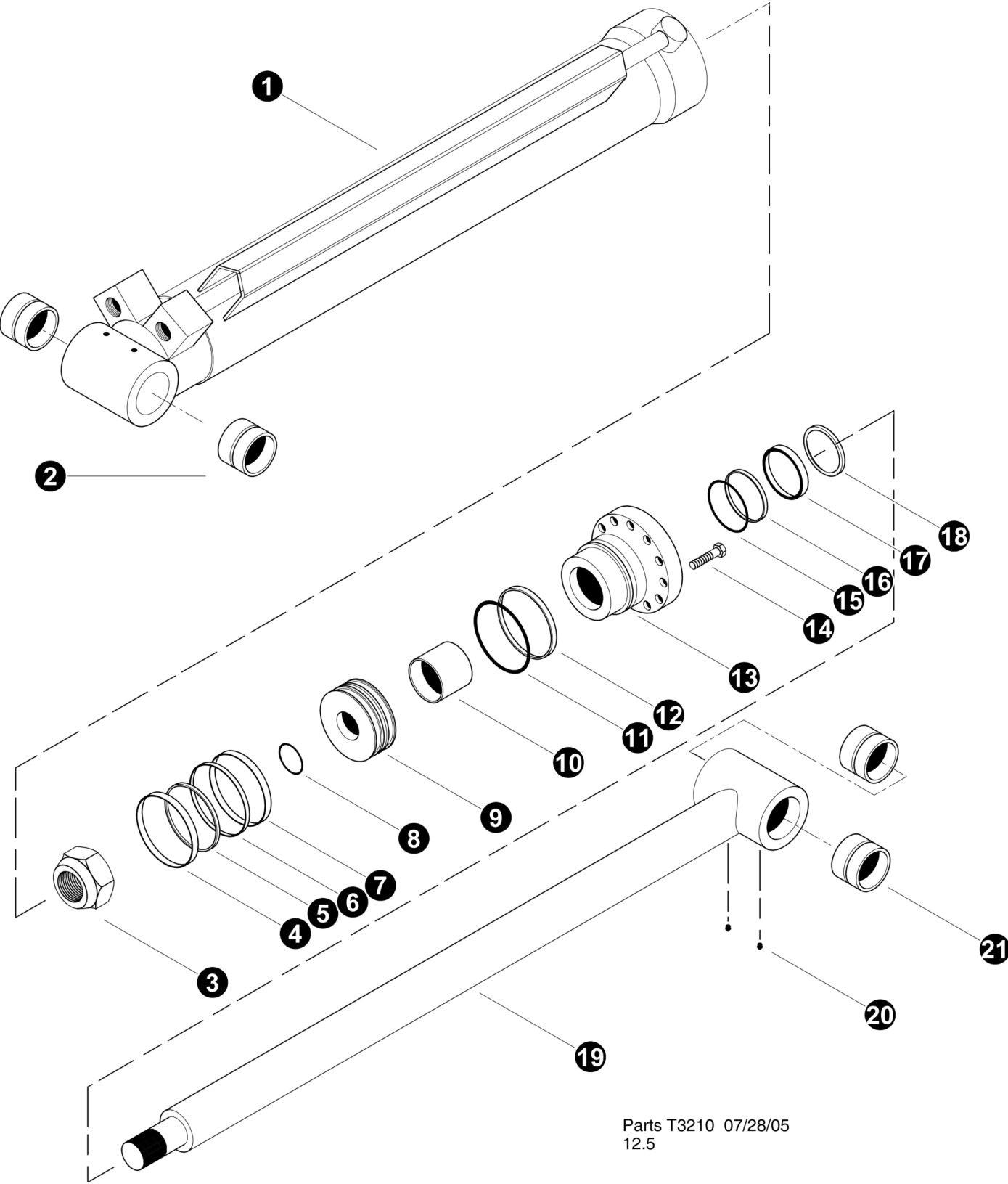
LIVE HEEL / FELLER BUNCHER MAIN BOOM (HOIST) CYLINDER (6" Dia - 54" Stroke)

(Please Verify Part Number Stamped on Base End of Cylinder Before Ordering Parts)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	51975-LB	1	☐	MAIN BOOM CYLINDER ASSEMBLY 6" x 54" Stroke	
1	-LB	1	☐	BARREL ASSEMBLY (203314B)	
2	11706-LB	2		BUSHING - 3" x 4-1/4"	
3	-LB	1		NUT, (712096A) (Torque to ft.lbs. (Nm))	
4	-LB	1	☐	PISTON ASSEMBLY (400990B)	
5	NSS	1	⌘	RING, piston wear	
6	NSS	1	⌘	O-RING, piston seal backup	
7	NSS	1	⌘	RING, piston seal	
8	NSS	1	⌘	RING, piston wear	
9	NSS	1	⌘	O-RING, piston seal	
10	-LB	1	☐	BEARING, rod (501040B)	
11	NSS	1	⌘	RING, rod bearing wear	
12	NSS	1	⌘	O-RING, backup	
13	NSS	1	⌘	RING, rod bearing seal	
14	NSS	1	⌘	U-CUP, rod bearing	
15	NSS	1	⌘	WIPER, rod	
16	15681-LB	12		BOLT - 5/8" x 2-1/4" (175 ft.lbs (233 Nm))	
17	-LB	1	☐	ROD ASSEMBLY (301981B)	
18	10704-LB	1		FITTING, straight grease - 1/8" pipe thread	
19	11706-LB	1		BUSHING - 3" x 4-1/4"	
-	52125-LB	1		KIT, seal repair - main boom cylinder	

☐ Kit or Assembly - includes all items indented underneath.

⌘ Included in seal repair kit Part # 52125-LB.



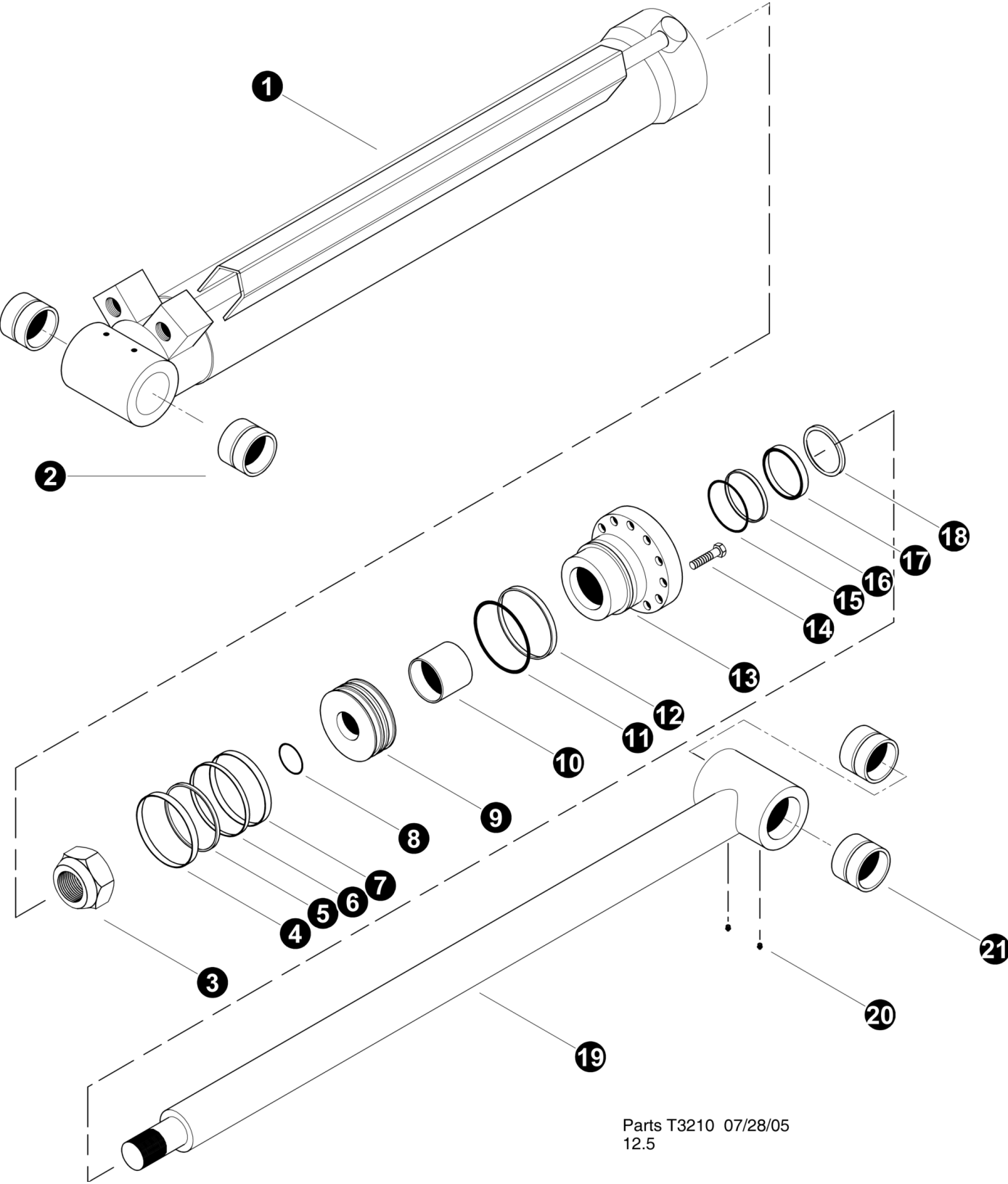
FORWARDER / HARVESTER STICK BOOM (JIB) CYLINDER (5.5" Dia - 45" Stroke)

(Please Verify Part Number Stamped on Base End of Cylinder Before Ordering Parts)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	52338-LB	1	☐	CYLINDER, STICK - FWD 4/BAR (HD 5.5" DIA)	
1	-LB	1	☐	BARREL ASSEMBLY ()	
2	14241-LB	2		BUSHING 2.5" X 3"	
3	15287-LB	1		NUT, cylinder rod - 2" NF (Torque to 2700 +/- 200 ft.lbs. (3600 +/- 265 Nm))	
4	NSS	1	⌘	RING, piston	
5	NSS	1	⌘	RING, backup piston	
6	NSS	1	⌘	RING, piston	
7	NSS	1	⌘	RING, piston	
8	NSS	1	⌘	O-RING, piston	
9	23206-LB	1		PISTON ASSY (400619B)	
10	NSS	1	⌘	RING, rod bearing wear	
11	NSS	1	⌘	O-RING, rod bearing	
12	NSS	1	⌘	RING, rod bearing back-up	
13	-LB	1		BEARING, rod (500860B)	
14	-LB	12		BOLT - 5/8" (Torque to 175 ft.lbs (233 Nm))	
15	NSS	1	⌘	RING, rod bearing back-up	
16	NSS	1	⌘	RING, rod bearing	
17	NSS	1	⌘	U-CUP, rod bearing	
18	NSS	1	⌘	WIPER, rod	
19	-LB	1	☐	ROD ASSEMBLY ()	
20	10704-LB	1		FITTING, straight grease - 1/8" pipe thread	
21	14241-LB	2		BUSHING 2.5" X 3"	
-	52113-LB	1	⌘	KIT, SEAL REPAIR - STICK CYL 830/630	

☐ Kit or Assembly - includes all items indented underneath.

⌘ Included in seal repair kit Part # 52113-LB.



Parts T3210 07/28/05
12.5

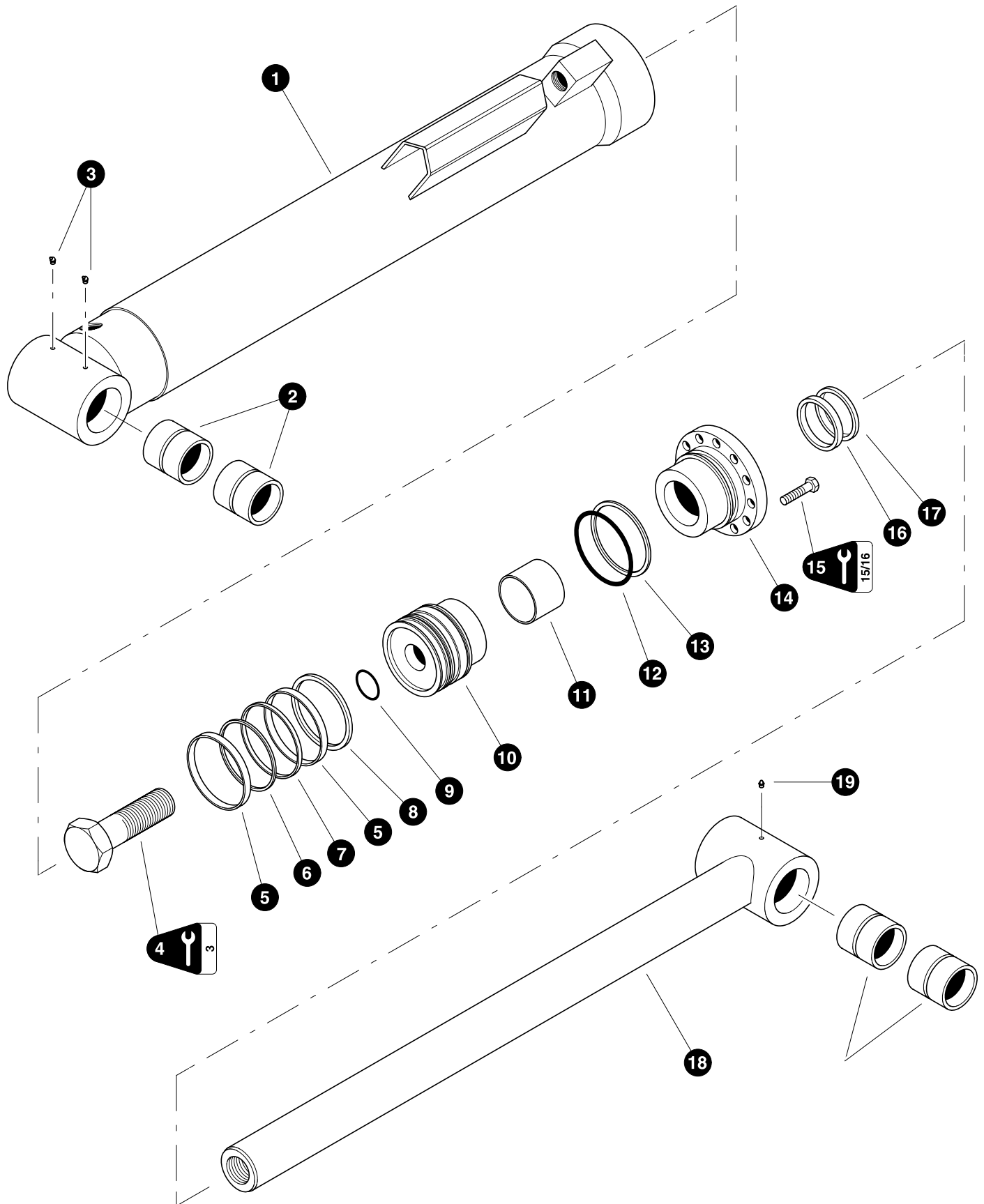
LIVE HEEL / FELLER BUNCHER STICK BOOM (JIB) CYLINDER (6" Dia - 45" Stroke)

(Please Verify Part Number Stamped on Base End of Cylinder Before Ordering Parts)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	52725-LB	1	☐	CYLINDER, STICK - 4/BAR (HD 6" DIA)	
1	-LB	1	☐	BARREL ASSEMBLY (203454B)	
2	14241-LB	2		BUSHING 2.5" X 3"	
3	15287-LB	1		NUT, cylinder rod - 2" NF (Torque to 2700 +/- 200 ft.lbs. (3600 +/- 265 Nm))	
4	NSS	1	⌘	RING, piston	
5	NSS	1	⌘	RING, backup piston	
6	NSS	1	⌘	RING, piston	
7	NSS	1	⌘	RING, piston	
8	NSS	1	⌘	O-RING, piston	
9	-LB	1		PISTON ASSY (401042B)	
10	NSS	1	⌘	RING, rod bearing wear	
11	NSS	1	⌘	O-RING, rod bearing	
12	NSS	1	⌘	RING, rod bearing back-up	
13	-LB	1		BEARING, rod (501107B)	
14	-LB	16		BOLT - 5/8" (Torque to 175 ft.lbs (233 Nm))	
15	NSS	1	⌘	RING, rod bearing back-up	
16	NSS	1	⌘	RING, rod bearing	
17	NSS	1	⌘	U-CUP, rod bearing	
18	NSS	1	⌘	WIPER, rod	
19	-LB	1	☐	ROD ASSEMBLY (302061B)	
20	10704-LB	1		FITTING, straight grease - 1/8" pipe thread	
21	14241-LB	2		BUSHING 2.5" X 3"	
-	52804-LB	1	⌘	KIT, SEAL REPAIR - STICK CYL 830/630	

☐ Kit or Assembly - includes all items indented underneath.

⌘ Included in seal repair kit Part # 52804-LB.



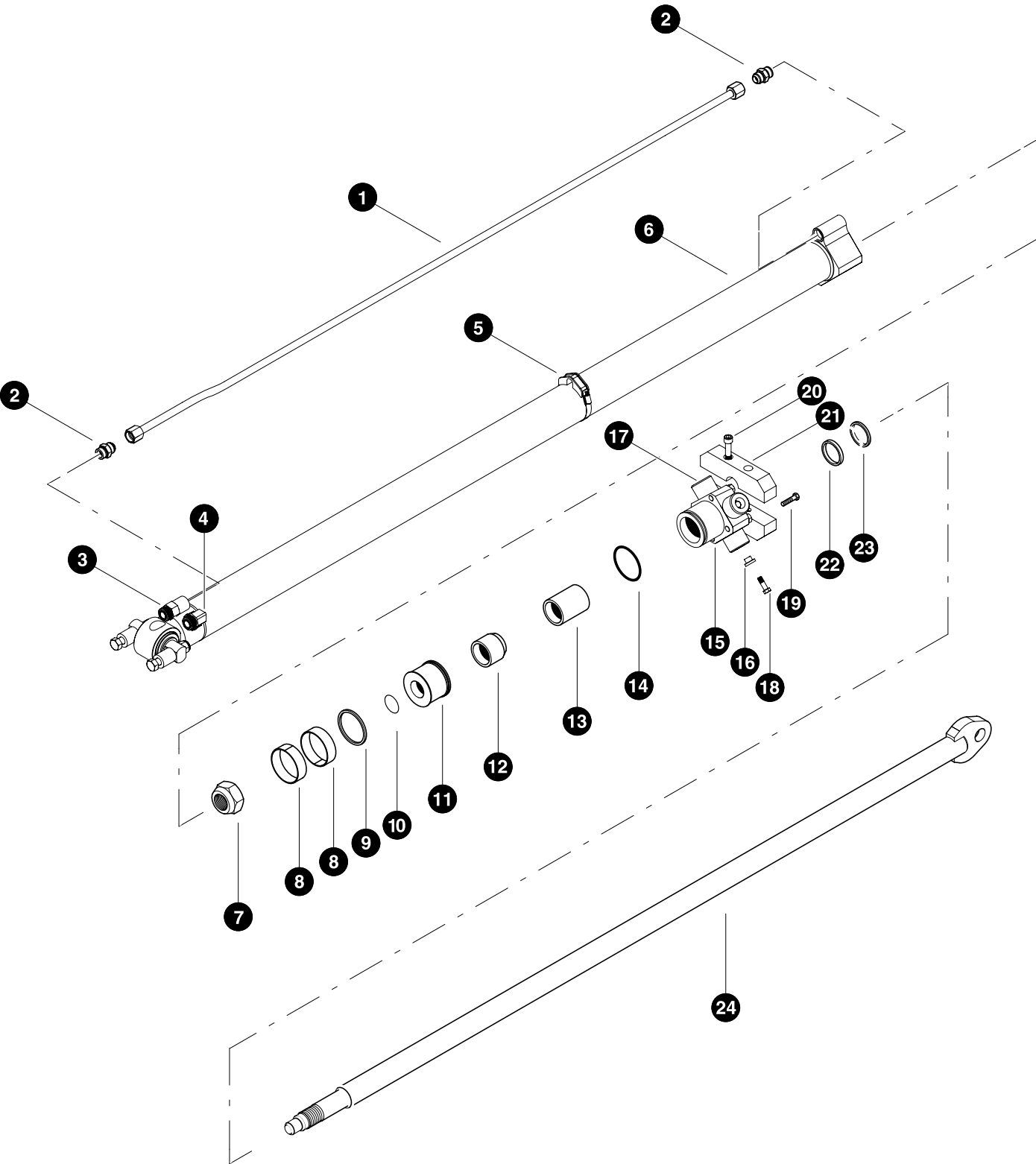
TOOL TILT CYLINDER (Used With 4-Bar Linkage)(Jarp)

(Please Verify Part Number Stamped on Base End of Cylinder Before Ordering Parts)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	54398-FB	1	☐	CYLINDER, TOOL - FB (JARP)	
1	22985-FB	1	☐	BARREL ASSEMBLY	
2	14241-FB	2		BUSHING - 2-1/2" x 3"	
3	15683-FB	2		FITTING, 45 grease - 1/8" pipe thread	
4	24563-FB	1		BOLT, PISTON RETAINING (4002 ft*lbs (3600 Nm) with Loctite 243)	
5	NSS	2	⌘	RING, piston wear	
6	NSS	1	⌘	RING, piston square	
7	NSS	1	⌘	RING, piston chem-cast	
8	NSS	1	⌘	RING, piston wear	
9	NSS	1	⌘	O-RING, piston	
10	22986-FB	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	24562-FB	1		BEARING, rod	
15	15681-FB	12		BOLT - 5/8" x 2-1/4" (175 ft.FBs (233 Nm))	
16	NSS	1	⌘	U-CUP, rod bearing	
17	NSS	1	⌘	WIPER, rod	
18	26675-FB	1	☐	ROD ASSEMBLY	
19	10704-FB	1		FITTING, straight grease - 1/8" pipe thread	
20	54397-FB	2		BUSHING - 3" x 3"	

☐ Kit or Assembly - includes all items indented underneath.

⌘ Included in seal repair kit Part # 22988-HB.



Parts T2754 07/14/2003
12.50

SQUIRT BOOM CYLINDER (optional)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	51008-LB	1	□	CYLINDER, 6' squirt	
1	---	1		TRANSFER TUBE (Jarp - 281266a)	
2	---	1		CONNNECTOR, STR 10 orb X 10 jic	
3	---	1		CONNNECTOR, STR	
4	---	1		ELBOW, 90	
5	---	1		CLAMP (ideal 6864)	
	---	1		GROMMET - (CAT #9R2004)	
6	51028-LB	1		BARREL ASSEMBLY	
7	51032-LB	1		NUT (712118A)	
8	---	1	⌘	RING, piston - wear	
9	---	1	⌘	RING, piston - square	
10	---	1	⌘	O-RING, piston	
11	51030-LB	1		PISTON	
12	---	1		CUSHION SLEEVE	
13	---	1		BUSHING, rod bearing (bronze)	
14	---	1	⌘	O-RING, rod bearing	
15	51031-LB	1		BEARING, rod	
16		4		Retainer sleeve (XB3019) (8" SLIDE TUBE)	
17		4		puck - cylinder support 2"OD x ½" thick (XB3017) (6" SLIDE TUBE)	
17		4		puck - cylinder support 2"OD x 1.4" thick (XB3018) (8" SLIDE TUBE)	
18		4		screw 3/8 x 3/4 FHCS brass (XB5001) (6" SLIDE TUBE)	
18		4		Capscrew 3/8"-16 x 1.5 hex head Gr 5 - (8" SLIDE TUBE)	
19	---	4		BOLT - (711206A)	
20		2		Capscrew ½"-13 x 3 socket head	
21		1		truss - cylinder support (XB4079) (6" SLIDE TUBE)	
21		1		truss - cylinder support (XB4080) (8" SLIDE TUBE)	
22	---	1	⌘	U-CUP, rod bearing	
23	---	1	⌘	WIPER, rod	
24	51029-LB	1		ROD ASSEMBLY	
-	51033-LB	1		KIT, seal repair - boom extension cylinder	

□ Kit or Assembly - includes all items indented underneath.

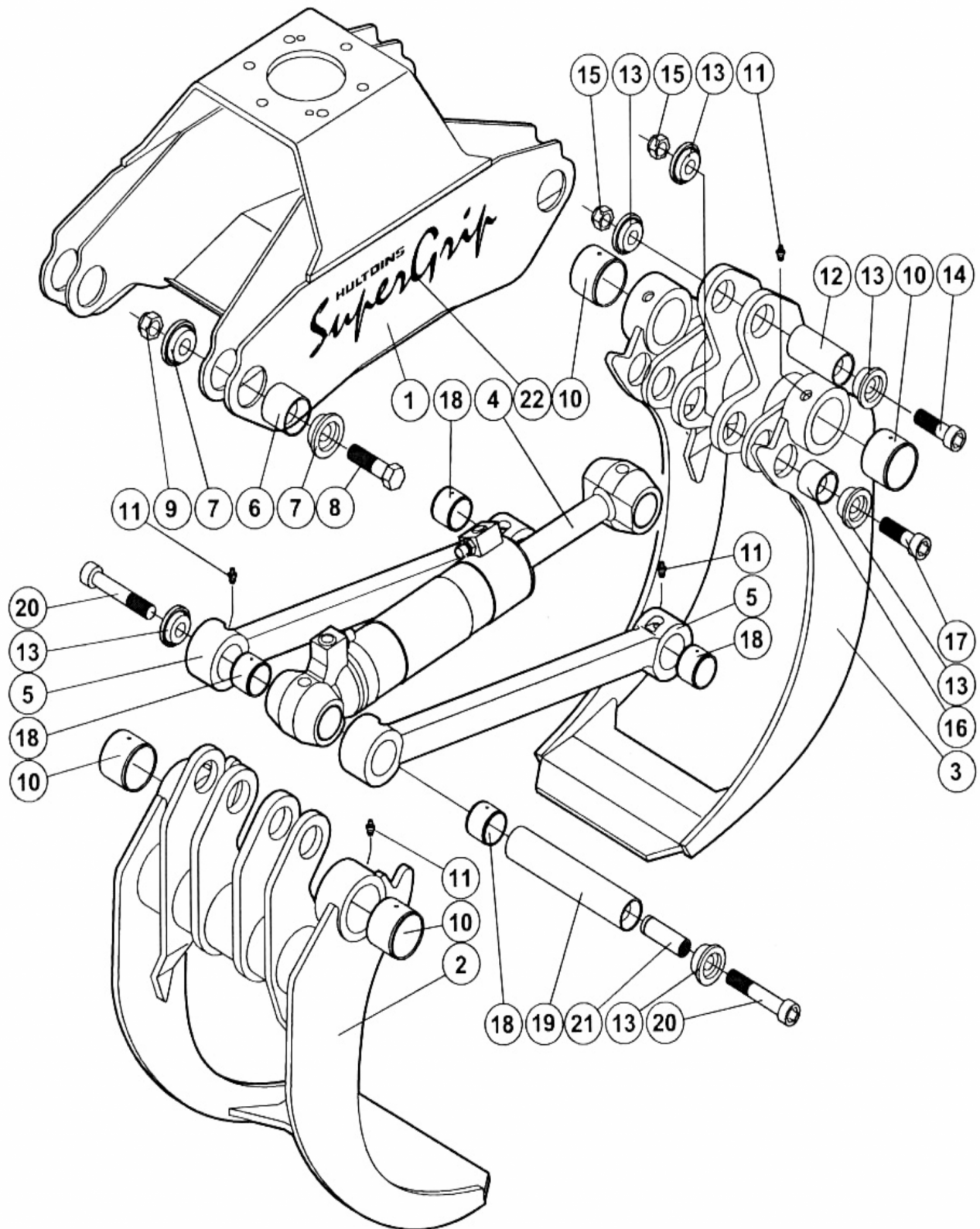
⌘ Included in seal repair kit Part # 51033-LB

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Section LB-4

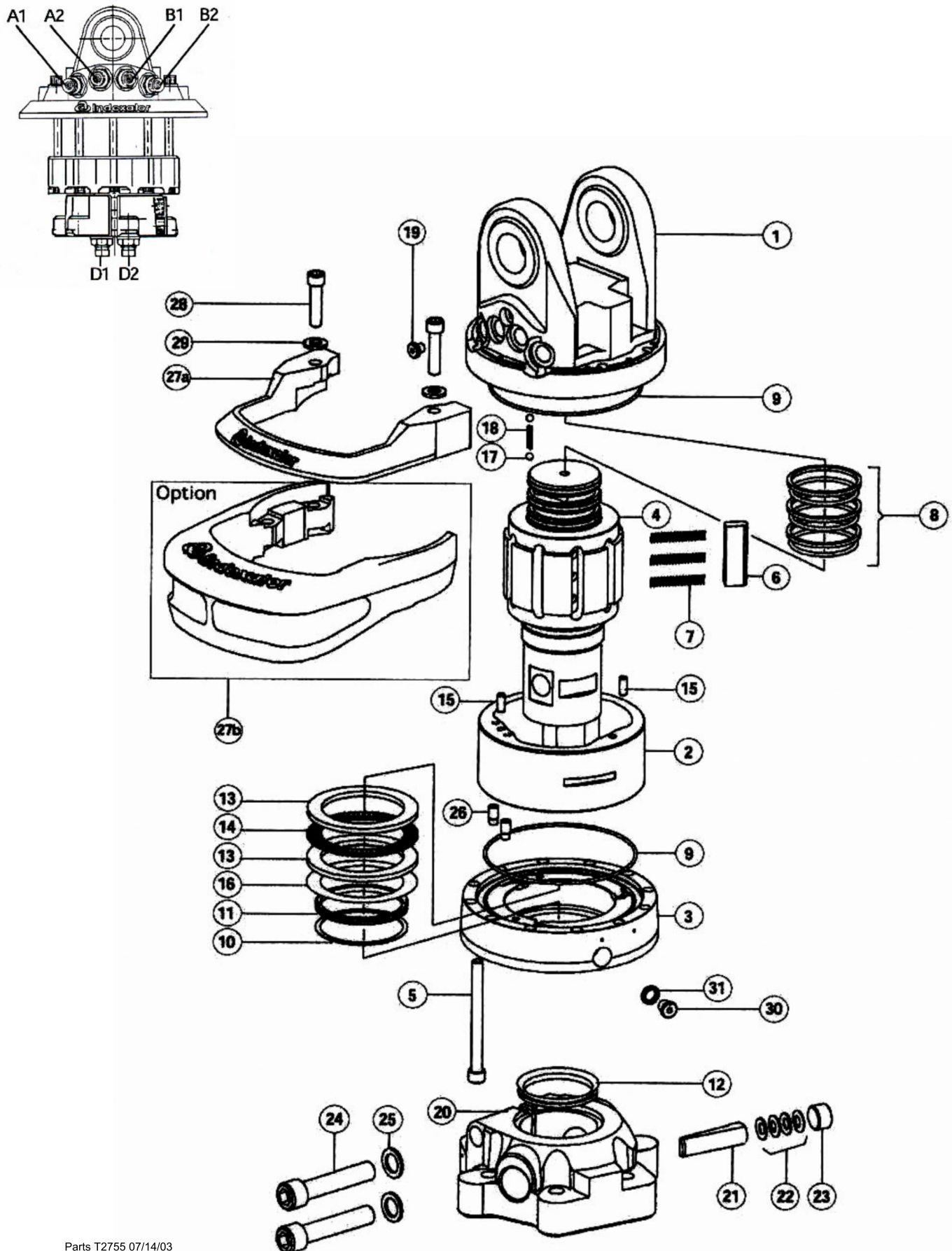
*Loader Booms -
Hulldins Grapple*



HULTDINS 360S GRAPPLE

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	22719-LB	1	☐	GRAPPLE, Hultdins 360s w\GV 17us	
1	---	1		FRAME, (0680501)	
2	---	1		GRAPPLE ARM, female (0680508)	
3	---	1		GRAPPLE ARM, male (0680507)	
4	---	1		CYLINDER (0150016)	
5	---	2		ROD (0680030)	
6	---	4		PIN (0680521)	
7	---	8		WASHER (0683021)	
8	---	4		SCREW, hex (0104634)	
9	---	4		NUT (0106033)	
10	---	4		BUSHING, (0683071)	
11	---	8		NIPPLE, grease (0114004)	
12	---	1		PIN (0680077)	
13	---	8		WASHER (0680054)	
14	---	1		BOLT, allen (0104132)	
15	---	3		NUT, (0106030)	
16	---	2		PIN, (0680015)	
17	---	2		BOLT, allen (0104502)	
18	---	4		BUSHING, (0680072)	
19	---	1		PIN, (0680075)	
20	---	1		BOLT, allen (0104502)	
20	---	1		BOLT, allen (0104132)	
21	---	1		NUT, (0660263)	

☐ Kit or Assembly - includes all items indented underneath.



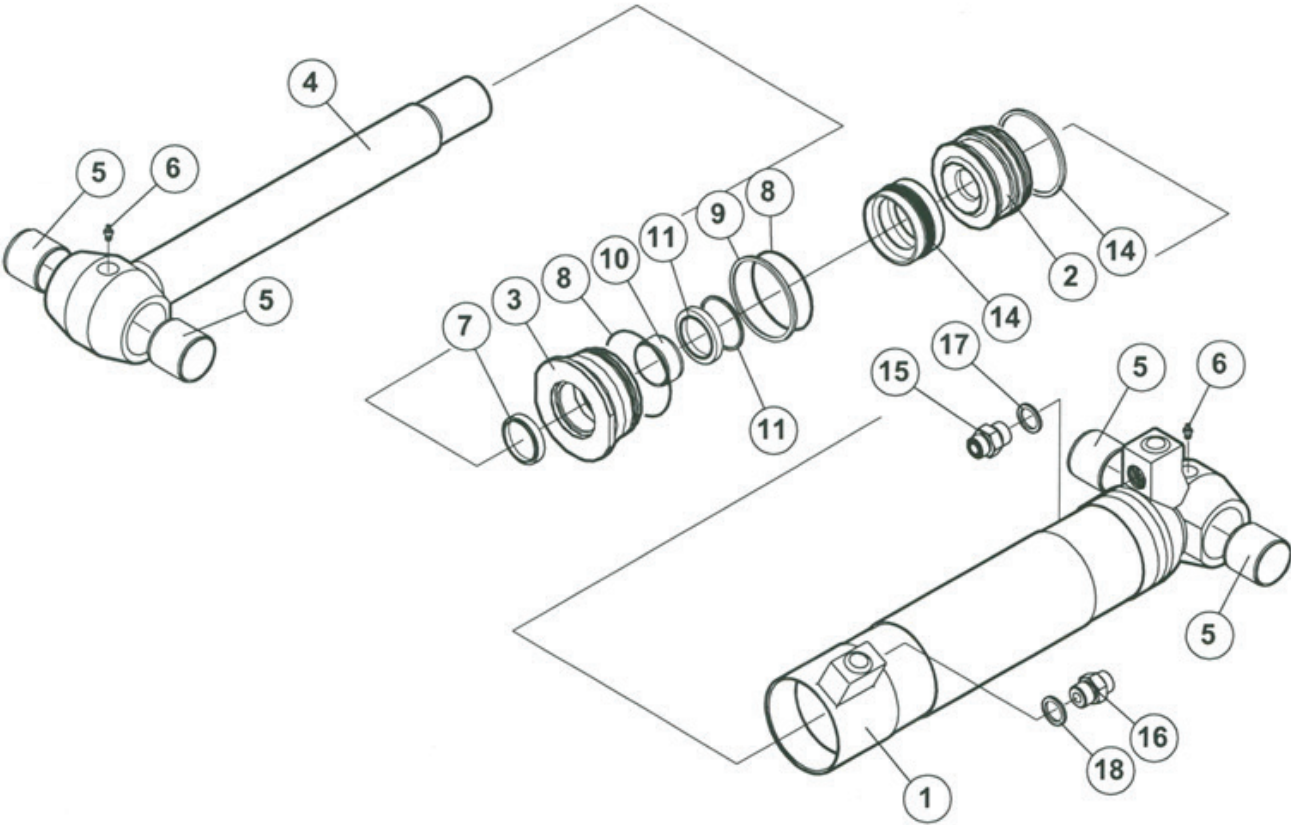
Parts T2755 07/14/03

HULTDINS 360S GRAPPLE (Indexator GV 17us Rotator)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	50586-LB	1	□	ROTATOR, GV 17us	
1	---	1		STATOR PLATE, upper (5114178)	
2	---	1		STATOR FRAME (5114023)	
3	---	1		STATOR PLATE, lower (5114020)	
4	---	1		ROTATOR SHAFT, (5117027)	
5	---	12		SCREW, (1002120)	
6	---	9		VANE, (5011160)	
7	---	27		SPRING, (5006030)	
8	---	3	⌘	GLIDE RING, (1005669)	
9	---	2	⌘	O-RING (1013515)	
10	---	1	⌘	RING, support (1015064)	
11	---	1	⌘	SEAL (1023753)	
12	---	1	⌘	V-RING (1019470)	
13	---	2		WASHER, (1018951)	
14	---	1		BEARING, axial needle (1015080)	
15	---	4		PIN (1019900)	
16	---	1		SHIM SET (5010081)	
17	---	2		BALL (1005545)	
18	---	1		SPRING (1020536)	
19	---	1		PLUG, (5001381)	
20	---	1		LINK, lower (5117022)	
21	---	1		WEDGE, (5010038)	
22	---	4		SPRING, cup (1015643)	
23	---	1		SCREW, locking (5010039)	
24	---	2		SCREW, (1019488)	
25	---	2		WASHER, (1019496)	
26	---	2		RESTRICTOR, (5011107)	
27	---	1		GUARD, hose (5011006)	
28	---	2		SCREW, (1019926)	
29	---	2		WASHER, (1017326)	
30	---	1		PLUG, magnetic (1025709)	
31	---	1		SEAL, bonded (1019116)	
-	20276-LB	1		KIT, seal repair - GV 17 rotator	
A1	15115-LB	1		CONNECTOR, straight - 848 TTO 08X10	
A2	15115-LB	1		CONNECTOR, straight - 848 TTO 08X10	
B1	15115-LB	1		CONNECTOR, straight - 848 TTO 08X10	
B2	15115-LB	1		CONNECTOR, straight - 848 TTO 08X10	
D1	15117-LB	1		CONNECTOR, straight - 848 TTO 08 X 08	
D2	15117-LB	1		CONNECTOR, straight - 848 TTO 08 X 08	

□ Kit or Assembly - includes all items indented underneath.

⌘ Included in seal repair kit Part # 20276-LB.



HULTDINS 360S GRAPPLE (Cylinder)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	51524-LB	1	□	CYLINDER, HULTDINS 360S GRAPPLE (CUR)	
1	---	1		BARREL (0150505)	
2	---	1		PISTON (0150506)	
3	---	1		GLAND (0150507)	
4	---	1		ROD (0150508)	
5	---	4		BEARING, plain (0680073)	
6	---	2		FITTING, grease M6 (0114004)	
7	---	1	⌘	SEAL, dust	
8	---	2	⌘	O-RING	
9	---	1	⌘	RING, backup	
10	---	1	⌘	RING, guide	
11	---	1	⌘	SEAL, rod	
12	---	1	⌘	RING, retainer	
13	---	1	⌘	SEAL, piston	
14	---	1		RING, piston (0150528)	
15	---	1		Fitting (0130 377)	
16	---	1		Fitting (0130 377)	
17	---	1		Seal (0106 584)	
18	---	1		Seal (0106 577)	

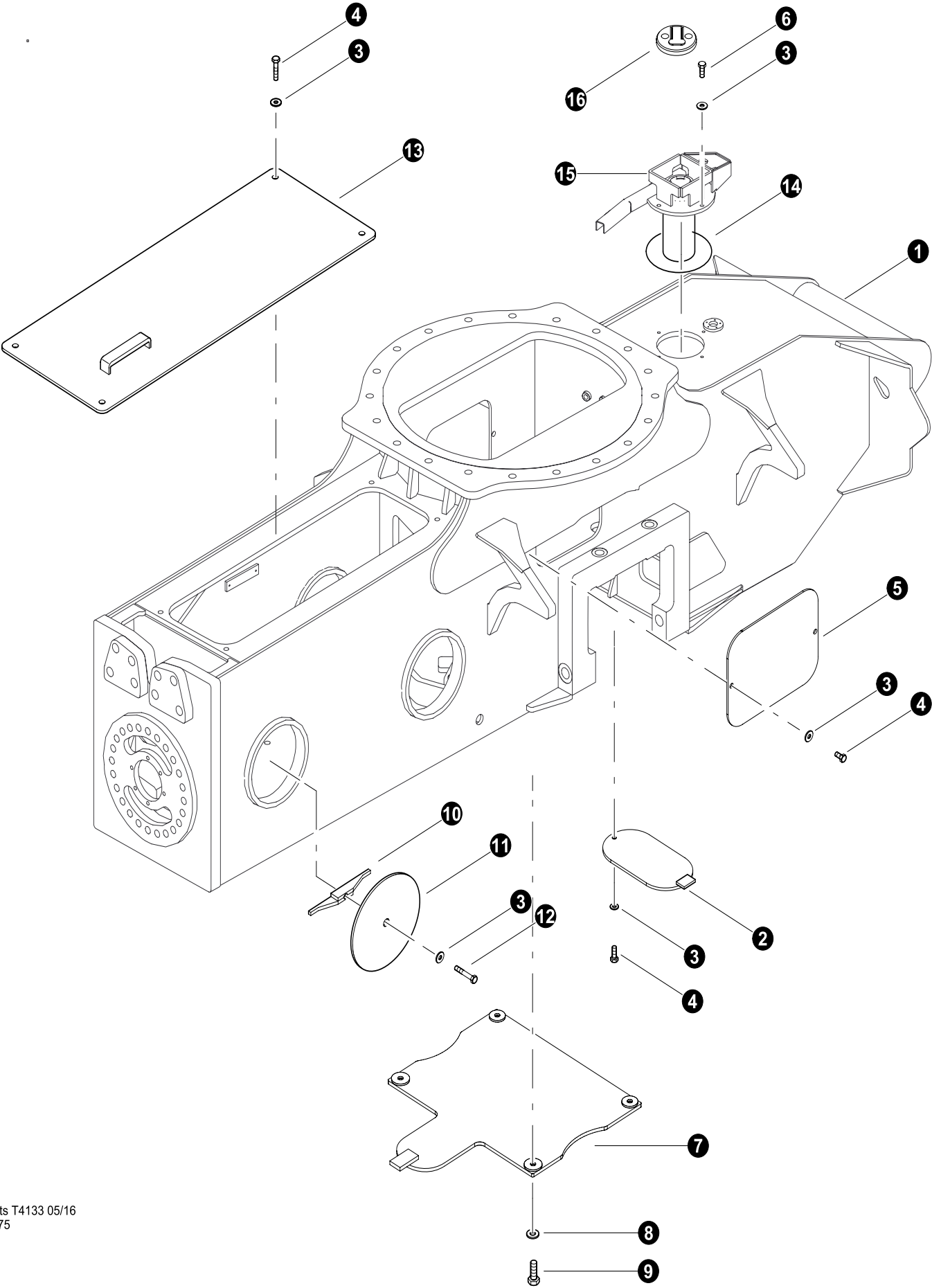
- 24414-LB KIT, SEAL REPAIR - GRAP CYL (HULTDINS)

- Kit or Assembly - includes all items indented underneath.
 ⌘ Included in seal repair kit Part #51034 -LB.

[illegible]

Section FF-1

830 & 840 Front Frame - Frame / Covers / Brackets / Steps



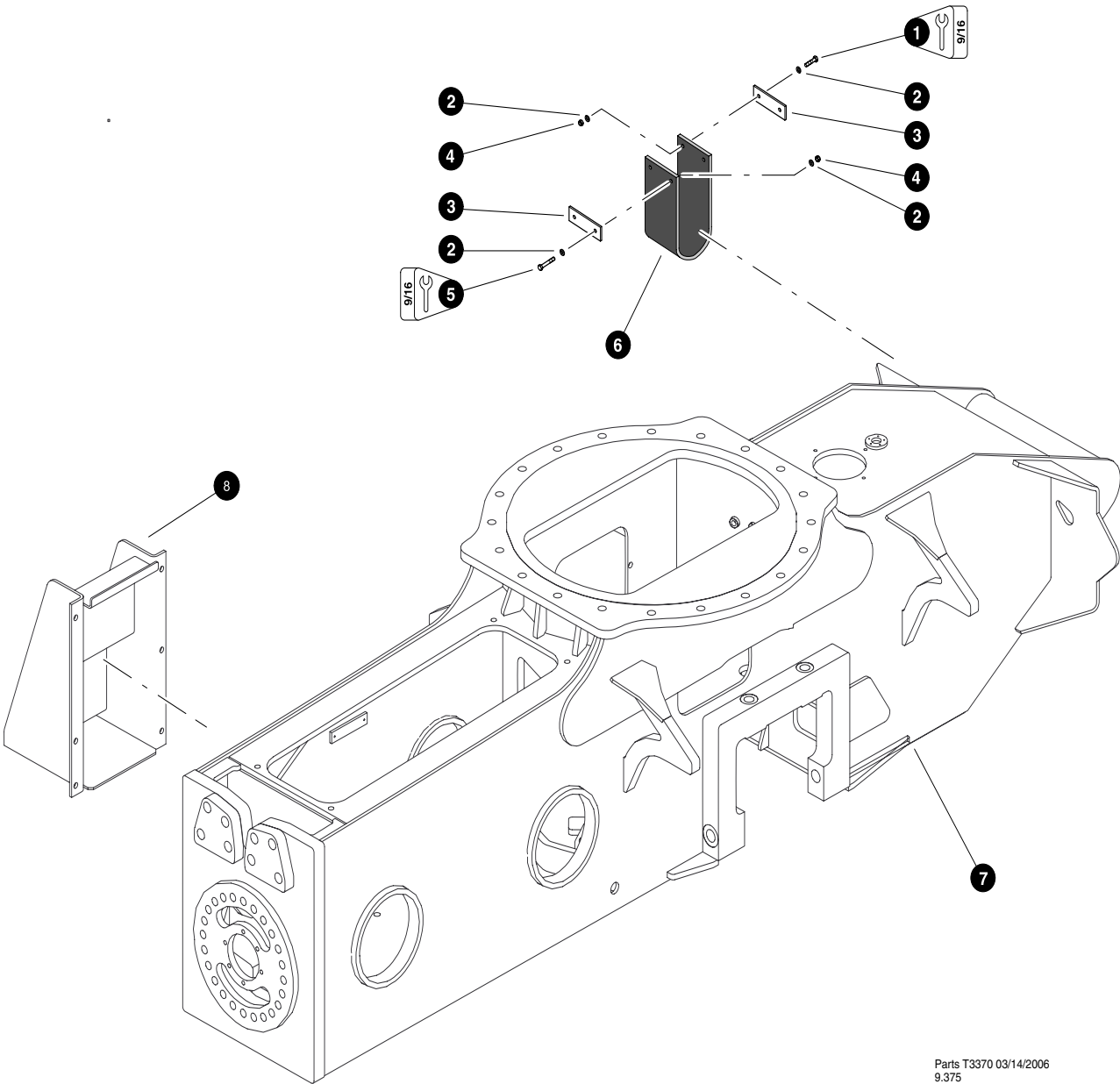
Parts T4133 05/16
9.375

FRONT FRAME AND ACCESS COVERS (Covers and Brackets)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	52408-FF	1	WELDMENT, front frame 800C	
2	52370-FF	1	COVER, AXLE BOX END (WITH FUEL SENSOR)	
3	15534-FF		WASHER, SAE flat - 1/2"	
4	15528-FF	4	BOLT - 1/2" x 1 1/2"	
5	40894-FF	2	COVER, RISER	
6	10783-FF	7	BOLT - 1/2" x 1"	
7	52215-FF	1	COVER, AXLE BOTTOM	
8	15550-FF	4	WASHER, SAE flat - 3/4	
9	10839-FF	4	BOLT - 3/4" X 1.5"	
10	52358-FF	4	RETAINER, ROUND COVER	
11	52357-FF	4	COVER, ROUND - FRONT FRAME	
12	15565-FF	2	BOLT - 1/2" X 2.5"	
13	52371-FF	1	COVER, TOP REAR	
14	15600-FF	1	O-RING, fuel tank cover	
15	REF	1	 COVER, FUEL	FF-4
16	16585-FF	1	CAP, FUEL (locking)	



See referenced page for component or assembly breakdown.



Parts T3370 03/14/2006
9.375

FRAME STEPS INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	20084-FF	2	BOLT - 3/8" x 1-3/4"	
2	15528-FF	8	WASHER, SAE flat - 3/8"	
3	20209-FF	2	RETAINER, rubber step	
4	10813-FF	8	NUT, lock - 3/8"	
5	20084-FF	2	BOLT - 3/8" x 1-3/4"	
6	20210-FF	1	STEP, rubber	
7	REF.	1	 FRONT FRAME WELDMENT.	FF-1
8	54792-FF	1	STEP, 830 BOLT-ON	

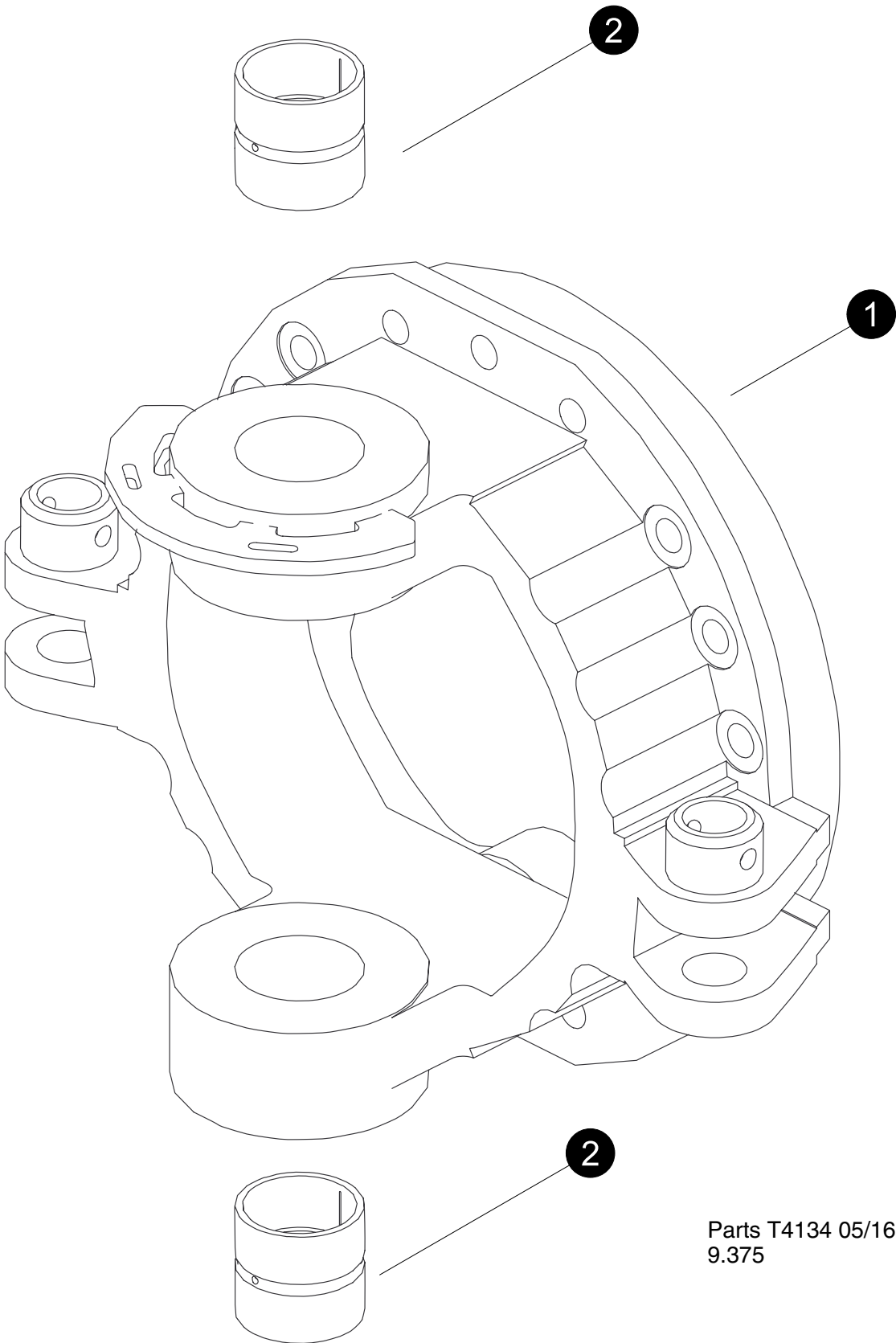


See referenced page for component or assembly breakdown.

[illegible]

Section FF-2

830/840 Front Frame - Component Installation

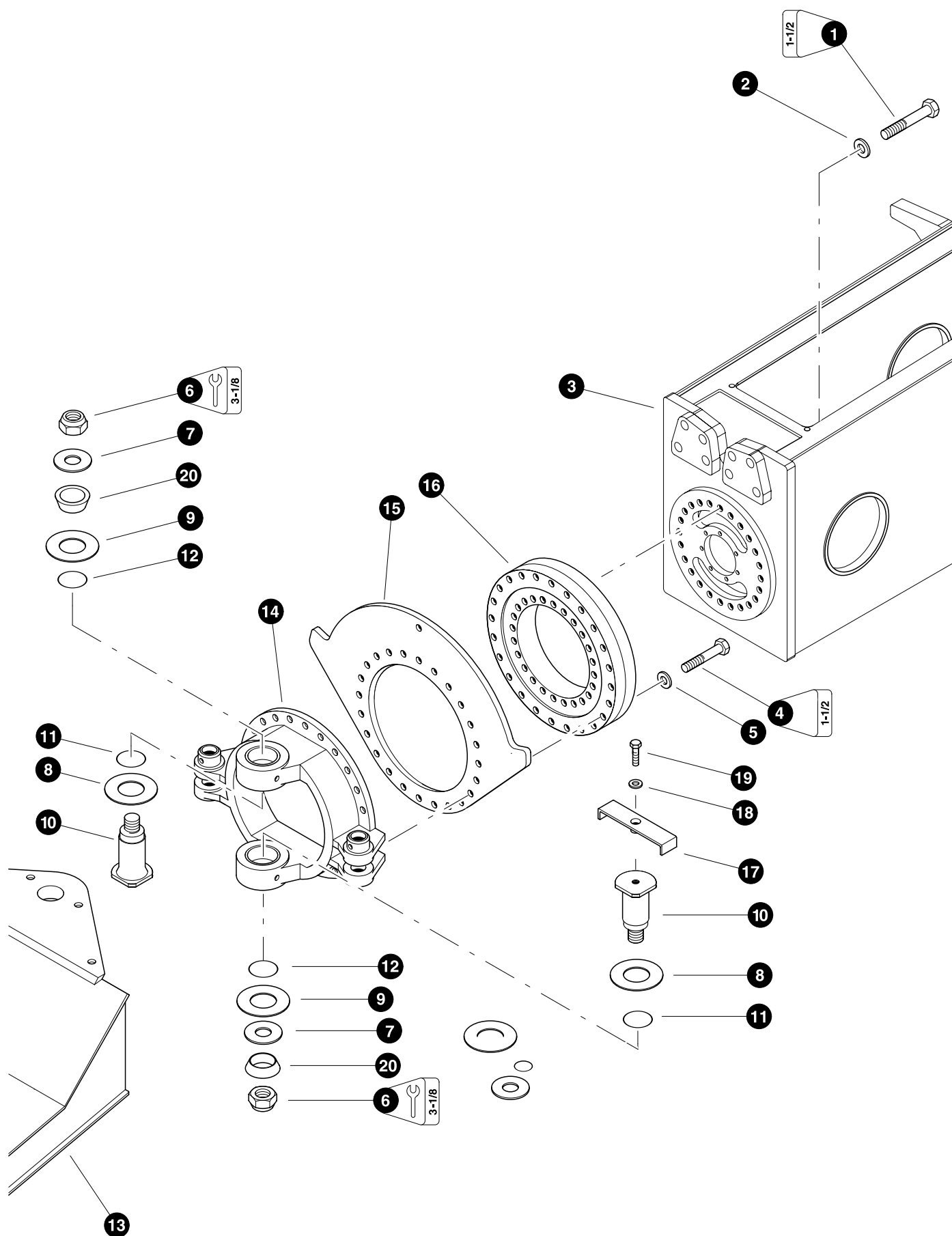


Parts T4134 05/16
9.375

FRAME ARTICULATION CASTING

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	52038-FF	1	☐	CASTING, HINGE PLATE - 830 3.5 PIN	
2	52021-FF	2		BUSHING - 3.5" X 3.75"(STRAIGHT GROOVES)	
3	10704-FF	2		FITTING, grease - 1/8" pipe thread	

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



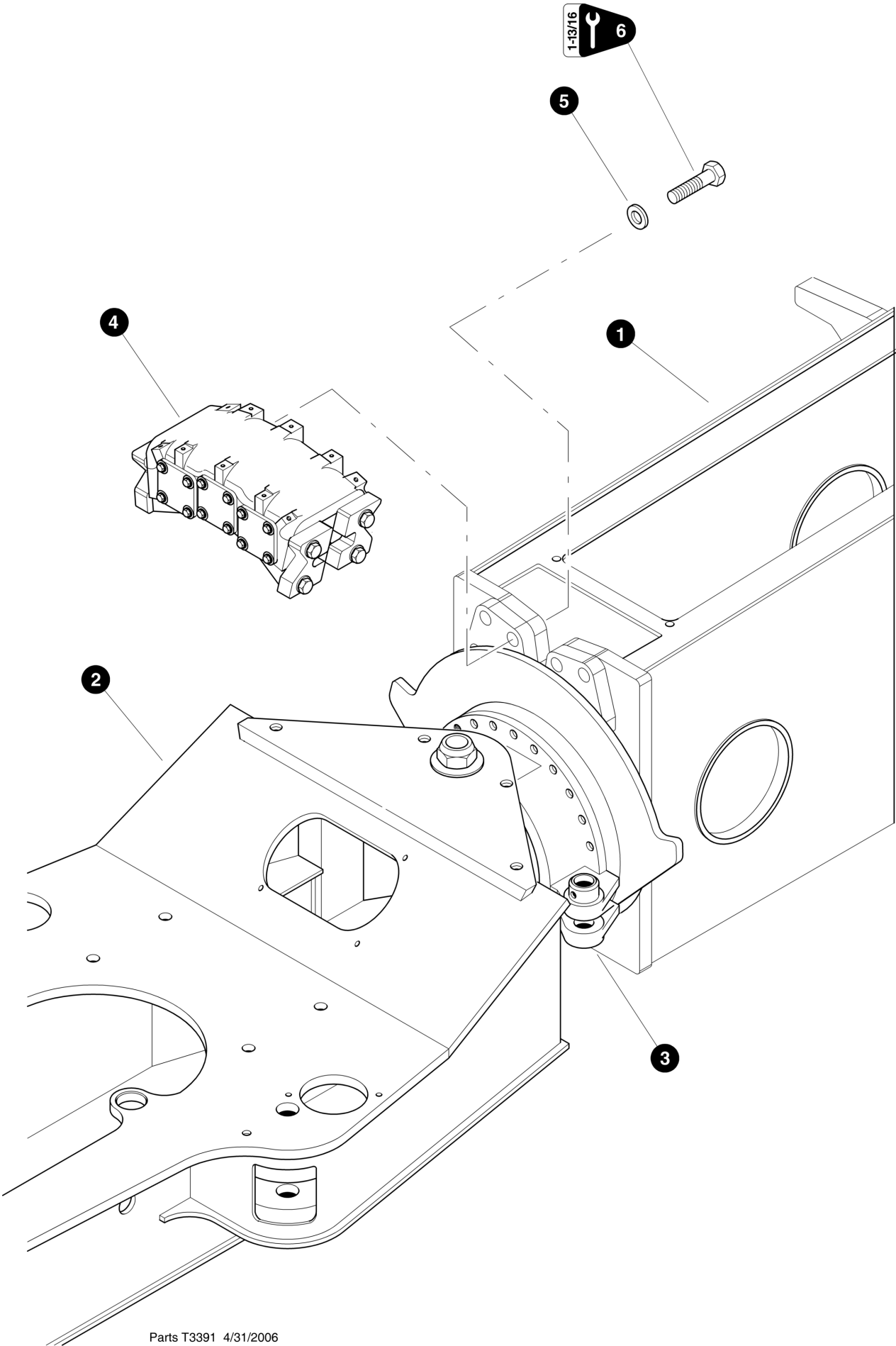
Parts T3642 08/08
9.375

FRAME ARTICULATION INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	23387-FF	24		BOLT - 1" x 6-1/2" (Torque to 1000 ft.lbs (1330 Nm) 1.5" Bearing Plate - machine 0273-081508 and before	
1	18672-FF	24		BOLT - 1" X 7-1/2" (Torque to 1000 ft.lbs (1330 Nm) 2" Bearing Plate - machine 0275-082708 and after	
2	18532-FF	24		WASHER, SAE FLAT - 1" (EXTRA THICK)	
3	REF.	1		FRONT FRAME WELDMENT.	FF-1
4	18672-FF	24		BOLT - 1" x 7-1/2" (Torque to 1000 ft.lbs (1330 Nm))	
5	15579-FF	24		WASHER, SAE flat - 1"	
6	10728-FF	2		NUT, nylock - 2"	
7	51499-FF	2		WASHER, articulation pin (3/8" thick)	
8	23106-FF	2		WASHER, thrust - thin (Brass)	
9	23105-FF	2		WASHER, thrust - thick (Brass)	
10	52023-FF	2		PIN - 3.5 X 10.75" TAPERED	
11	21577-FF	2		O-RING - thin	
12	24546-FF	2		O-RING - thick	
13	REF.	1		REAR FRAME WELDMENT.	FR-1
14	REF.	1		FRAME ARTICULATION CASTING	FF-2
15	80830-FF	1		PLATE, braking	
16	24999-FF	1		BEARING, articulation	
17	52490-FF	2		BRACKET, HOSE HOLD DOWN 830W/FRT TRANS	
18	15550-FF	1		WASHER, SAE flat - 3/4"	
19	10839-FF	1		BOLT - .75" X 1.5"-FF	
20	52040-FF	2		HUB, TAPERED 3.5"	



See referenced page for component or assembly breakdown.



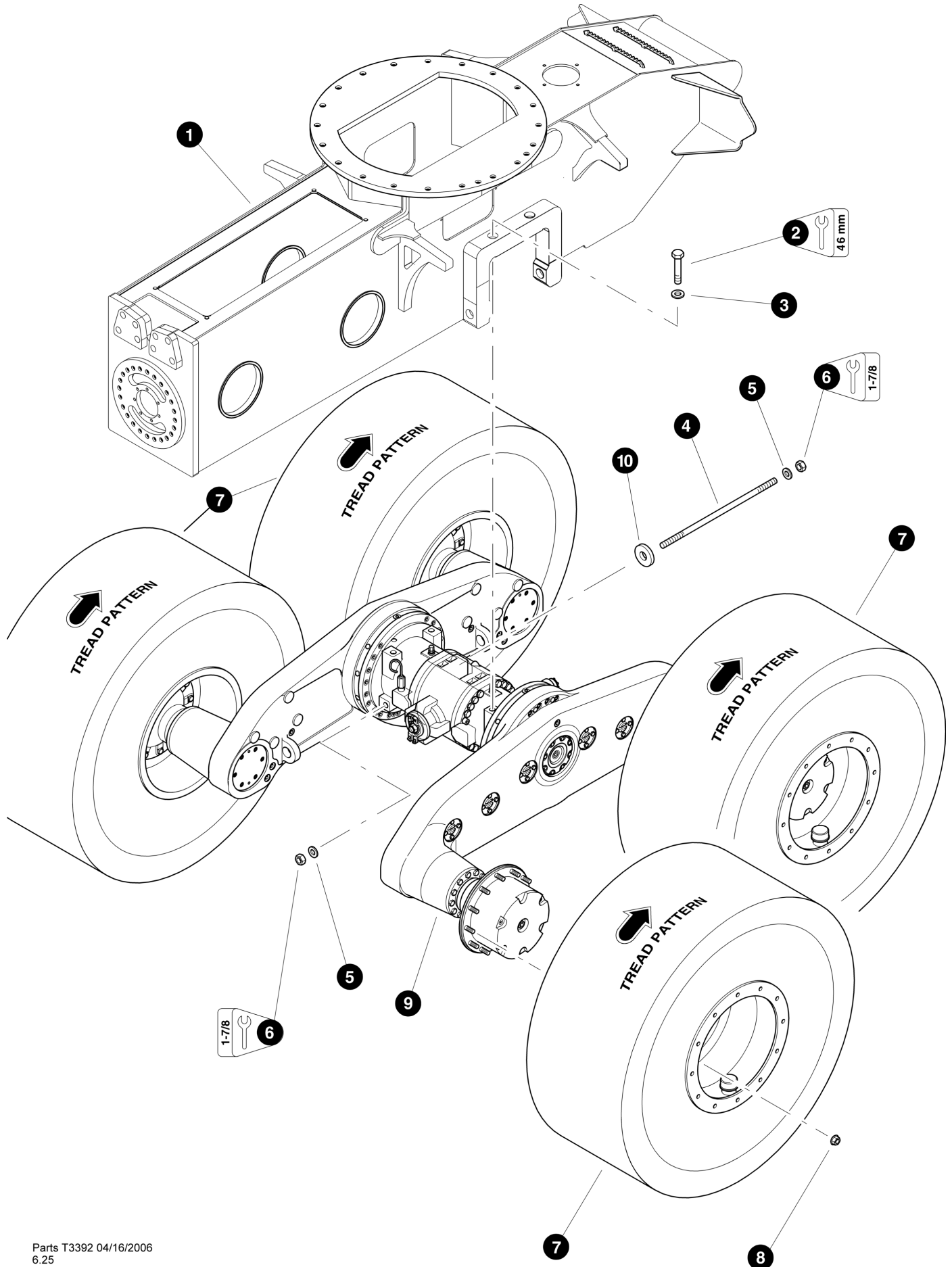
Parts T3391 4/31/2006
12.50

FRAME LOCK BRAKE INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		FRONT FRAME WELDMENT	FF-1
2	REF.	1		REAR FRAME WELDMENT.....	FR-1
3	REF.	1		FRAME ARTICULATION CASTING	FF-2
4	REF.	1		FRAME LOCK BRAKE	FF-5
5	22531-FF	8		WASHER - 1-1/4"	
6	23351-FF	8		BOLT - 1-1/4" x 4-1/2" NF	



See referenced page for component or assembly breakdown.



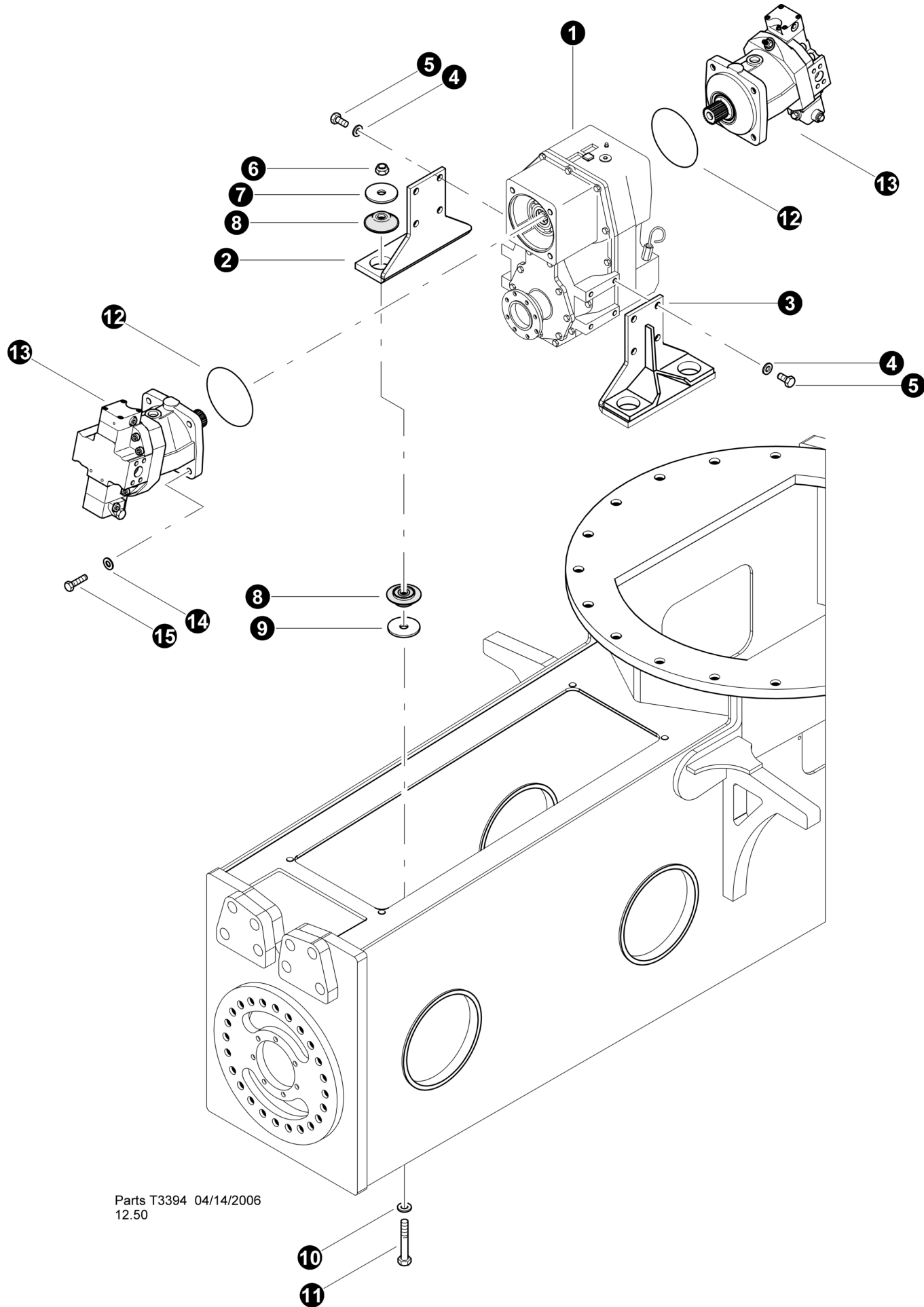
Parts T3392 04/16/2006
6.25

FRONT AXLE INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1		FRONT FRAME WELDMENT	FF-1
2	23567-FF	4		BOLT - 30mm-3.5P x 220mm (Torque to 1100 ft.lbs. (1465 Nm))	
3	23990	4		WASHER, SAE FLAT - 1.25" (EXTRA THICK)	
4	52485-FF	2		STUD - 1.25" - 7 X 27.50"	
5	22531-FF	4		WASHER, SAE flat - 1-1/4"	
6	23989-FF	4		NUT, lock - 1-1/4" (Torque to 1200 ft.lbs. (1600 Nm))	
7	REF.	4		WHEEL ASSEMBLY	AX-3
8	19361-FF	48		NUT, lug (Torque to 600 ft.lbs. (800 Nm))	
9	REF.	1		FRONT AXLE	AX-1
10	24003-FF	2		SPACER, axle spreader stud	



See referenced page for component or assembly breakdown.



TRANSFER CASE / GEARBOX AND MOTOR INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	REF	1	Transfer Case NAF	AX-4
2	52119-FF	1	MOUNT, TRANSMISSION TIM-15 TF810-840	
3	52119-FF	1	MOUNT, TRANSMISSION TIM-15 TF810-840	
4	50447-FR	8	WASHER, FLAT - 16MM	
5	50382-FR	8	BOLT - 16mm 2.00 X 40mm (Torque to 180 ft-lbs) (See Note #1 Below)	
6	10817-FR	4	NUT, lock 3/4"	
7	17918-FR	8	WASHER, isolator mount .875"	
8	17904-FR	8	ISOLATOR	
9	17918-FR	8	WASHER, isolator mount .875"	
10	15550-FR	8	WASHER, SAE flat - 3/4"	
11	10844-FR	4	BOLT - 3/4" x 5"	
12	20967-FR	2	O-RING, WHEEL DRIVE MOTOR PILOT (FWD)	
13	REF	1	WHEEL DRIVE MOTOR.	FF-4
14	42110-FR	8	WASHER, FLAT - 20MM	
15	18525-FR	8	BOLT, - 20mm X 50 mm (See Note #1 Below) (Torque to 180 ft-lbs)	



See referenced page for component or assembly breakdown.



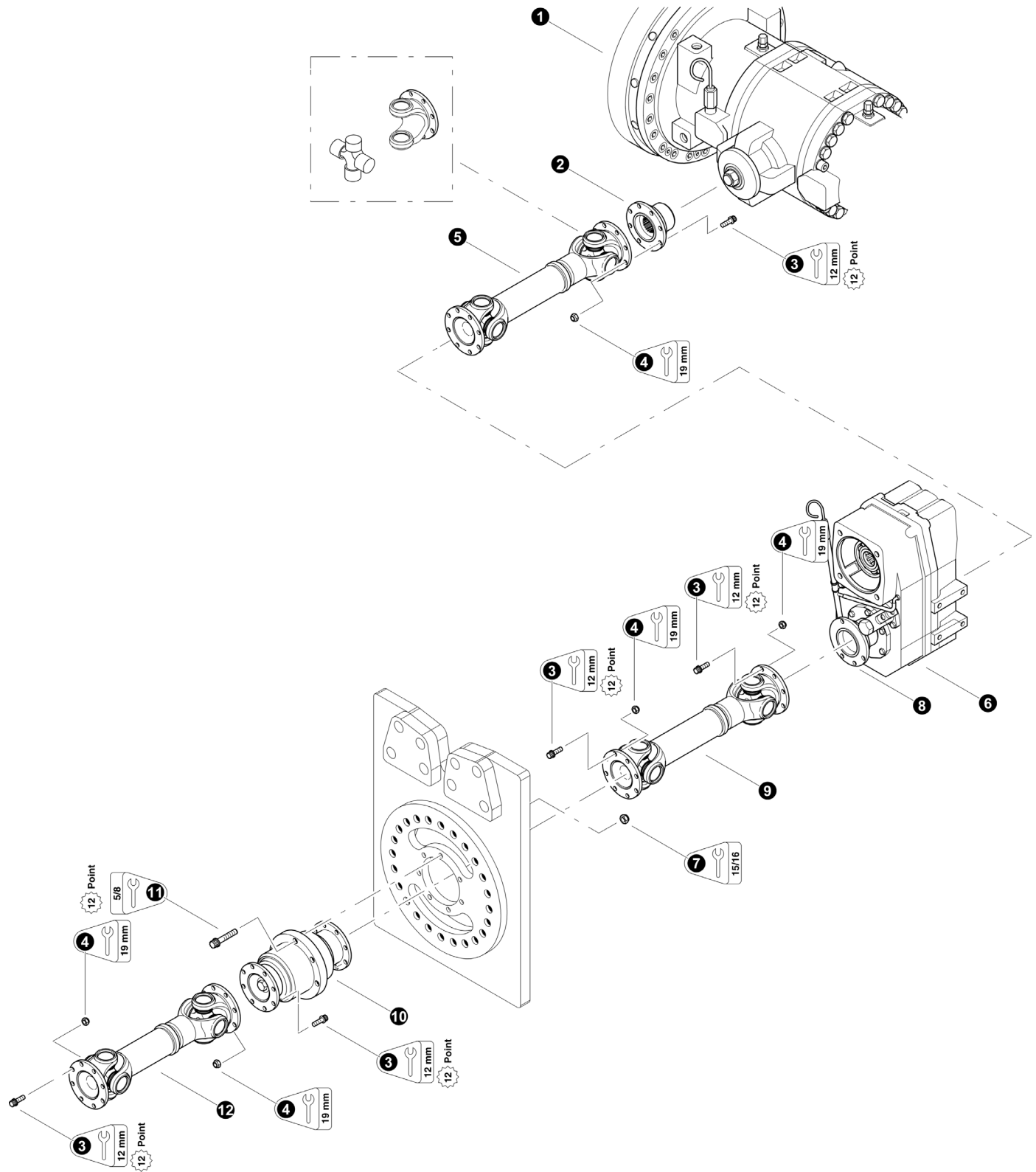
Kit or Assembly - includes all items indented underneath.

Note #1:

Use Loctite 243 (blue) on threads during installation.

Note #2:

Use Loctite 271 (red) on threads during installation.



Parts T3394 04/14/2006
12.50

FRONT DRIVE-SHAFT INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1		FRONT AXLE	AX-1
2	23997-FF	1		YOKE, companion flange - axle (Torque nut to 590 ft lbs.(800 Nm) (see note #2))	
3	50261-FF	48		BOLT, 12 point - 12mm-1.75P x 35mm (See Note #1 Below)	
4	50262-FF	48		NUT, lock - 12mm	
5	50283-FF	1		DRIVE SHAFT, (Transfer Case to front axle)(464295-61)	
	-----	2		FITTING, 90° grease - 10mm	
	50466-FF	2		KIT, CROSS & BEARING	
	50467-FF	2		YOKE, FLANGE (90mm)	
6	REF	1		Transfer Case NAF	AX-4
7	10816-FF	6		NUT, lock - 5/8"	
8	-FF	2		YOKE, HD flange - NAF Transercase (7521.238)	
9	23996-FF	1		DRIVE SHAFT (Transfer Case to Carrier Bearing) (445731-61)	
	-----	2		FITTING, 90° grease - 10mm	
	50466-FF	2		KIT, CROSS & BEARING	
	50467-FF	2		YOKE, FLANGE (90mm)	
10	25218-FF	1		IDLER, driveshaft (HD)	
11	50050	6		BOLT, 12 point - 5/8" x 3" (See Note #1 Below) (Torque to 130 ft.lbs. (175 Nm))	
12	25968-FF	1		DRIVE SHAFT (Center joint) (20" (503mm) C/L-C/L) (fits all TF front frames with HD driveshafts) (457176-61)	
	-----	2		FITTING, 90° grease - 10mm	
	50466-FF	2		KIT, CROSS & BEARING	
	50467-FF	2		YOKE, FLANGE (90mm)	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

Note #1:

Use Loctite 243 (blue) on threads during installation.

Note #2:

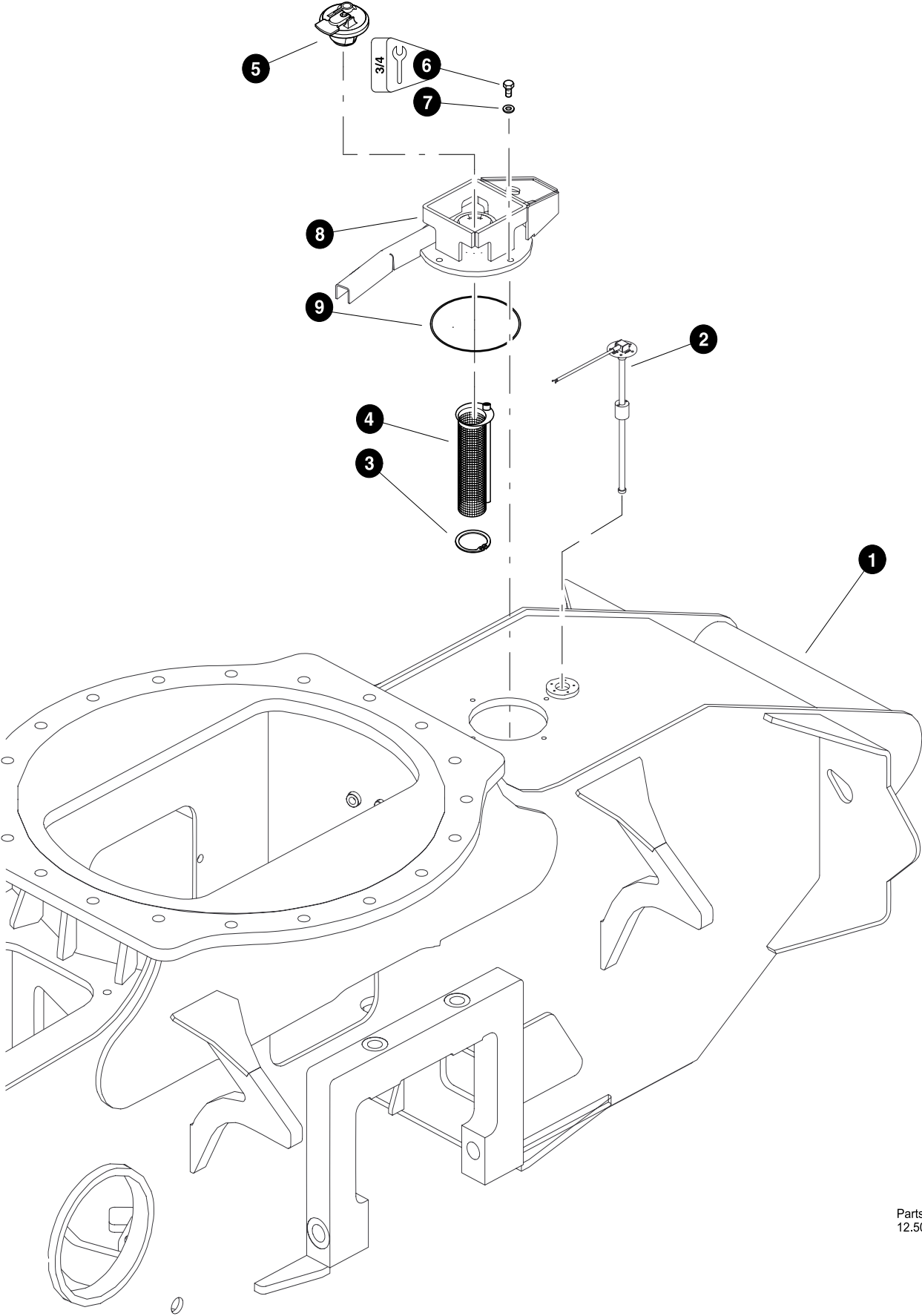
Use Loctite 271 (red) on threads during installation.

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Section FF-3

830 / 840 Front Frame - Fuel Tank Components



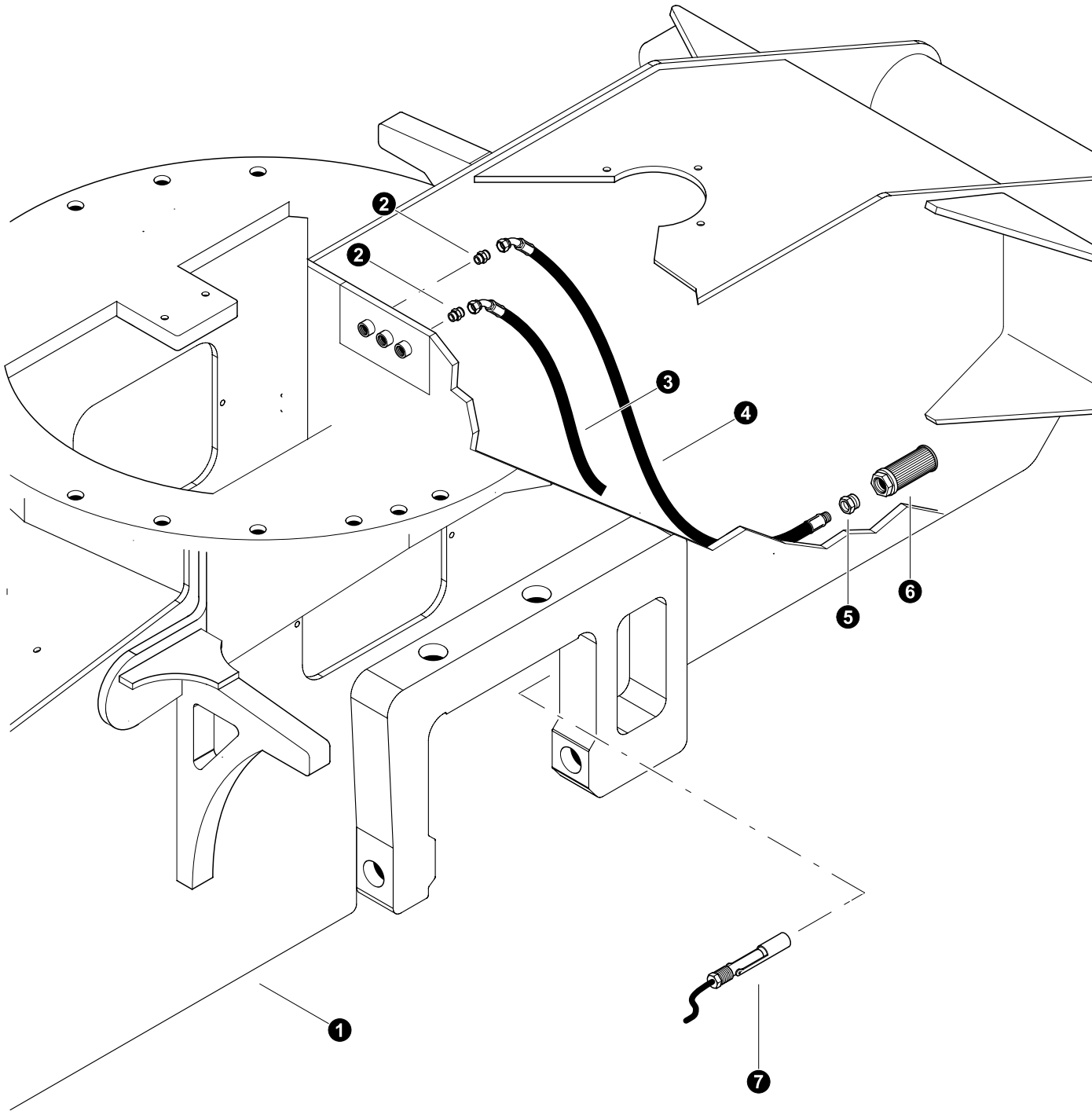
Parts T4135 05/16
12.50

FUEL FILL STRAINER INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		FRONT FRAME WELDMENT.	FF-1
2	57221-FF	1		SENDER, FUEL LEVEL W/FLOAT (WHEEL - 28")	
3	17115-FF	1		RING, snap - fuel strainer retainer	
4	17114-FF	1		STRAINER, fuel	
5	16585-FF	1		CAP, fuel	
6	10783-FF	4		BOLT - 1/2" x 1"	
7	15534-FF	4		WASHER, SAE flat - 1/2"	
8	47951-FF	1		COVER, FUEL TANK ACCESS W/GAUGE	
9	15600-FF	1		O-RING - 8"	



See referenced page for component or assembly breakdown.



Parts T3059 04/19/2005
12.50

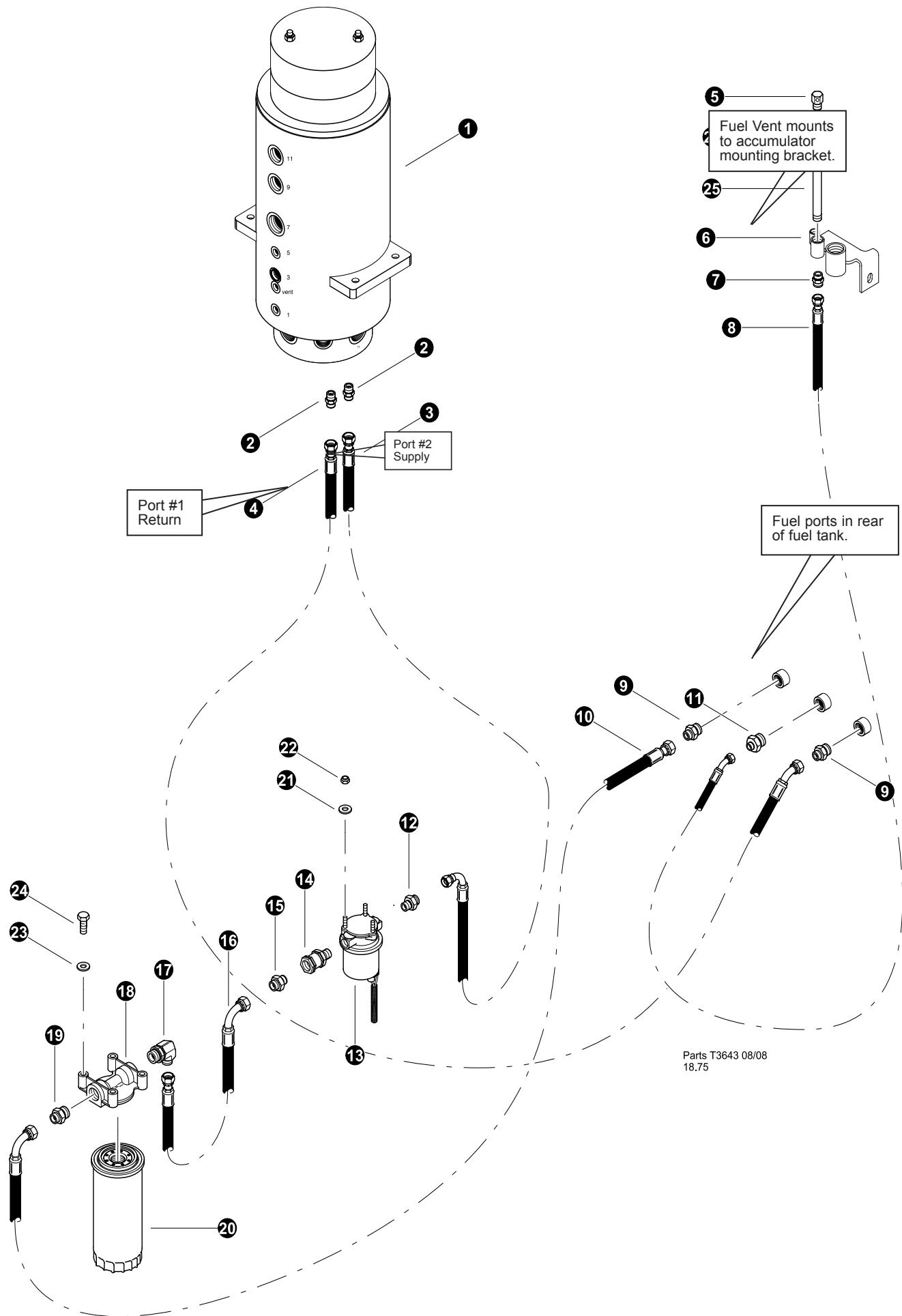
FUEL LINES

(Supply & Return Lines Inside Fuel Tank)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		FRONT FRAME WELDMENT.	FF-1
2	15117-FF	2		CONNECTOR, straight - FF1852T-0808S	
3	50576-FF	1		HOSE ASSEMBLY - 2018-08-0809-open (Fuel return)	
4	50577-FF	1		HOSE ASSEMBLY - 2067-08-0809-08MPS (Fuel supply)	
5	15513-FF	1		BUSHING, REDUCER - 5406-12-8	
6	17271-FF	1		FILTER, screen	
7	51379-FF			SWITCH, HYD.or Fuel OIL LEVEL .50 NPT GEMS (OPTIONAL)	



See referenced page for component or assembly breakdown.



FUEL LINES

(Supply & Return Lines From Fuel Tank To Rotary Manifold)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ROTARY MANIFOLD	UP-1
2	18034-FF	2		CONNECTOR, STR - FF1852T-0606S	
3	-FF	1		HOSE ASSEMBLY - 2041-06-060S-0609 (Fuel supply from rotary manifold port #2 to fuel tank)	
4	-FF	1		HOSE ASSEMBLY - 2031-06-060S-0604 (Fuel return from rotary manifold port #1 to fuel lift pump)	
5	22906-FF	1		BREATHER, fuel vent	
6	52218-FF	1		BRACKET, VENT MOUNT (.50&.25NPT)VERT.	
7	15131-FF	1		CONNECTOR, straight - FF2031T-0404S	
8	-FF	1		HOSE ASSEMBLY - 2022.5-04-040S-0404 (Fuel tank vent port to fuel vent breather)	
9	22902-FF	1		CONNECTOR, STR - 848-TT-08x06	
10	-FF	1		HOSE ASSEMBLY - 2070-06-060S-0609 (Fuel tank supply to lower filter inlet)	
11	15504-FF	1		CONNECTOR, straight - FF2031T-0408S	
12	51878-FF	1		CONNECTOR, STR - MALE PIPE (6-6 FL0-S)	
13	21966-FF	1		PUMP, fuel - 12 volt	
14	15652-FF	1		VALVE, check	
15	51878-FF	1		CONNECTOR, STR - MALE PIPE (6-6 FL0-S)	
16	-FF	1		HOSE ASSEMBLY - 2070-06-060S-0609 (Fuel filter outlet to fuel pump inlet)	
17	23084-FF	1		ELBOW, 90 - 6-10 C5OLO-S	
18	16574-FF	1		MOUNT, filter head	
19	51885-FF	1		CONNECTOR, STR - (6-10 F50L0-S)	
20	16575-FF	1		FILTER, spin-on fuel	
21	10757-FF	3		WASHER, SAE flat - 1/4"	
22	10755-FF	3		NUT, hex - 1/4"	
23	15559-FF	2		WASHER, SAE FLAT - .3125"	
24	15605-FF	2		BOLT - .3125" X .75"	

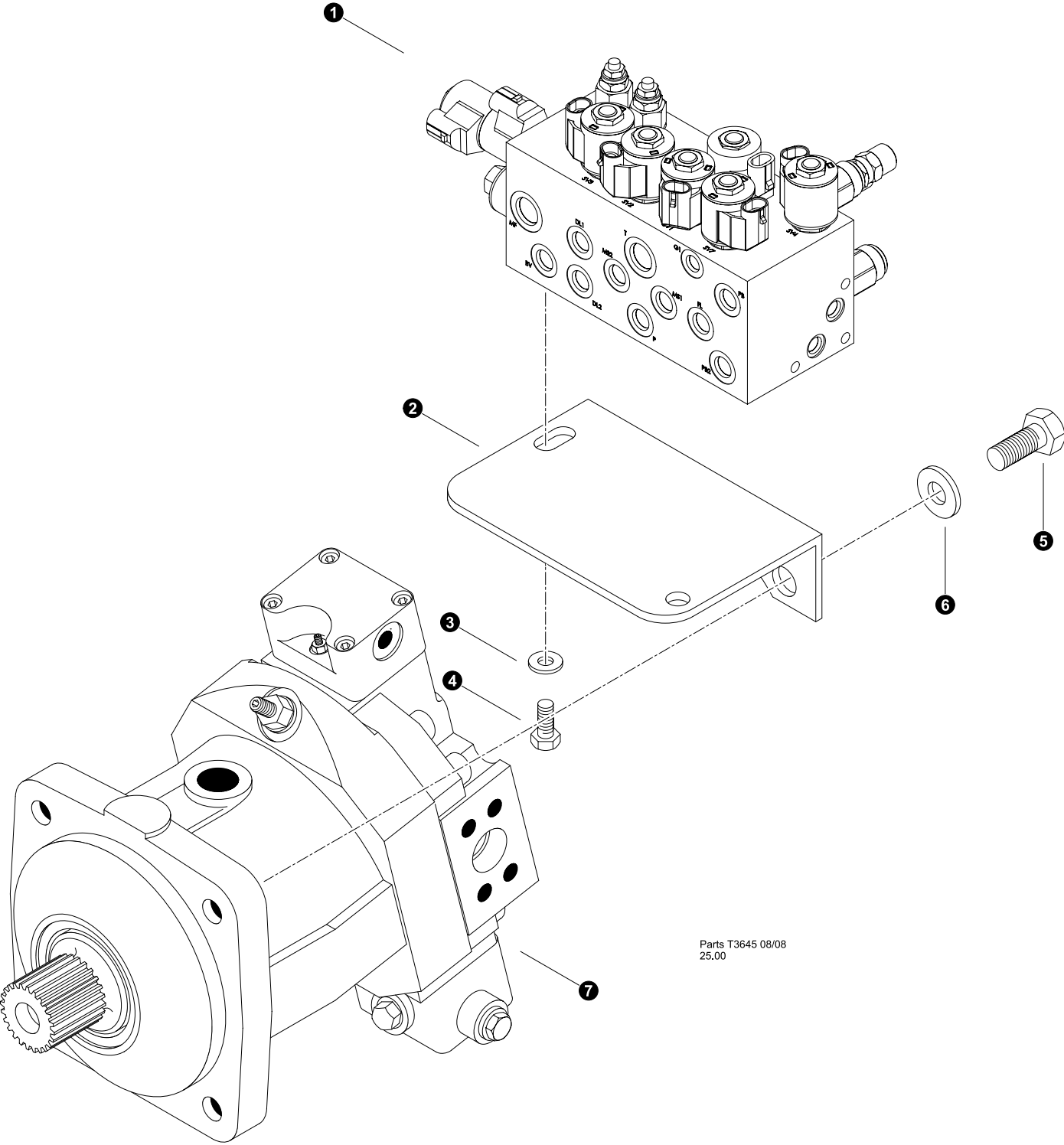


See referenced page for component or assembly breakdown.

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Section FF-4

830 / 840 Front Frame - Lower Solenoid Manifold Circuits and Components Breakdown



Lower Solenoid Manifold Circuits and Components Breakdown (Lower Solenoid Manifold Mounting)

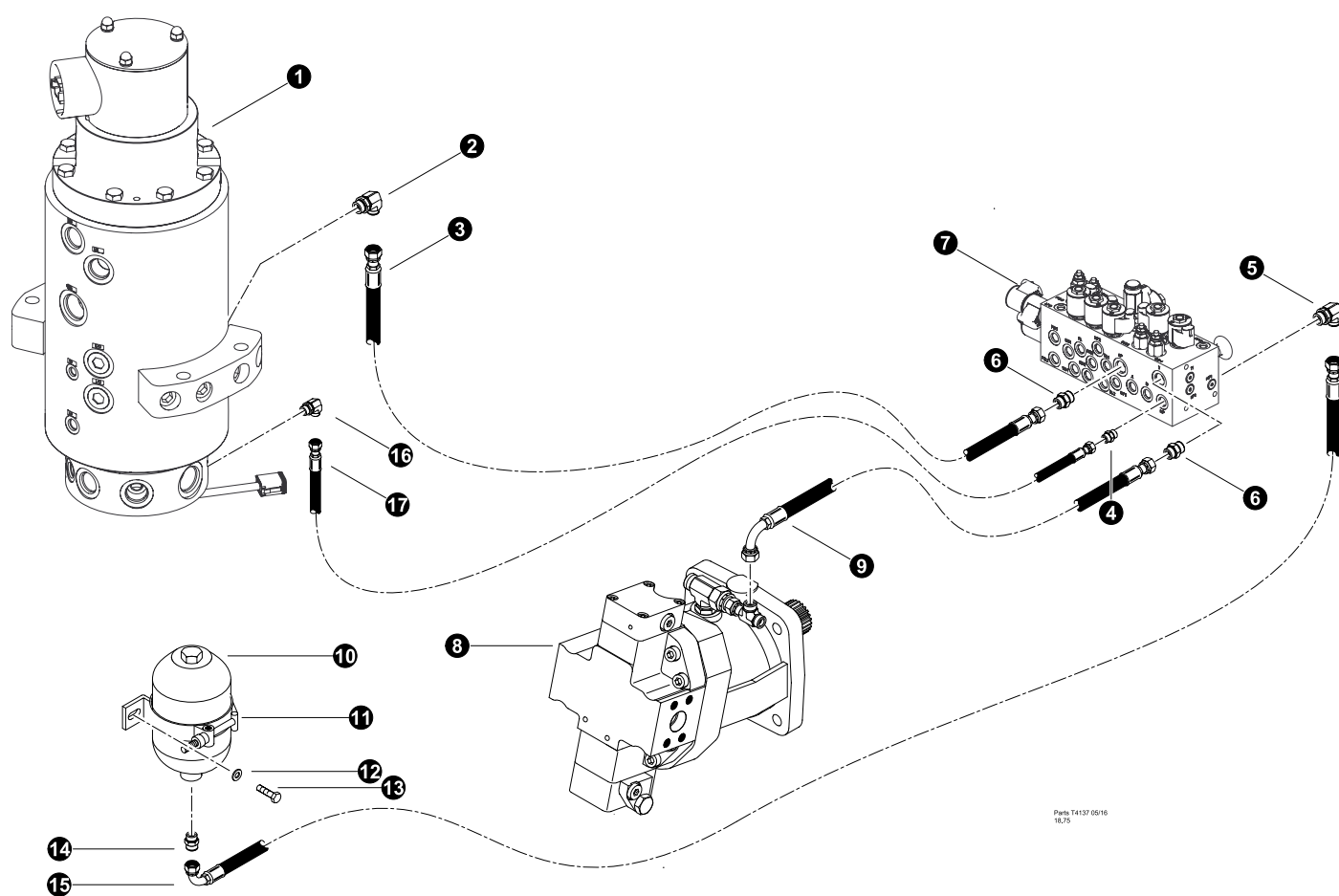
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		LOWER SOLENOID MANIFOLD	FF-4
2	52380-FF	1		BRACKET, MANIFOLD MOUNT FRT FRAME	
3	10802-FF	2		WASHER, flat - 3/8"	
4	15542-FF	2		BOLT - .375" X .75"	
5	18525-FR	8		BOLT, - 20mm X 50 mm (See Note #1 Below) (Torque to 180 ft-lbs)	
6	42110-FR	8		WASHER, FLAT - 20MM	



See referenced page for component or assembly breakdown.

Note #1:

Use Loctite 242 (**BLUE**) during install.



Parts T4137 05/16
18.75

Lower Solenoid Manifold Circuits and Components Breakdown (Lower Manifold - Pressure and Tank Connections)

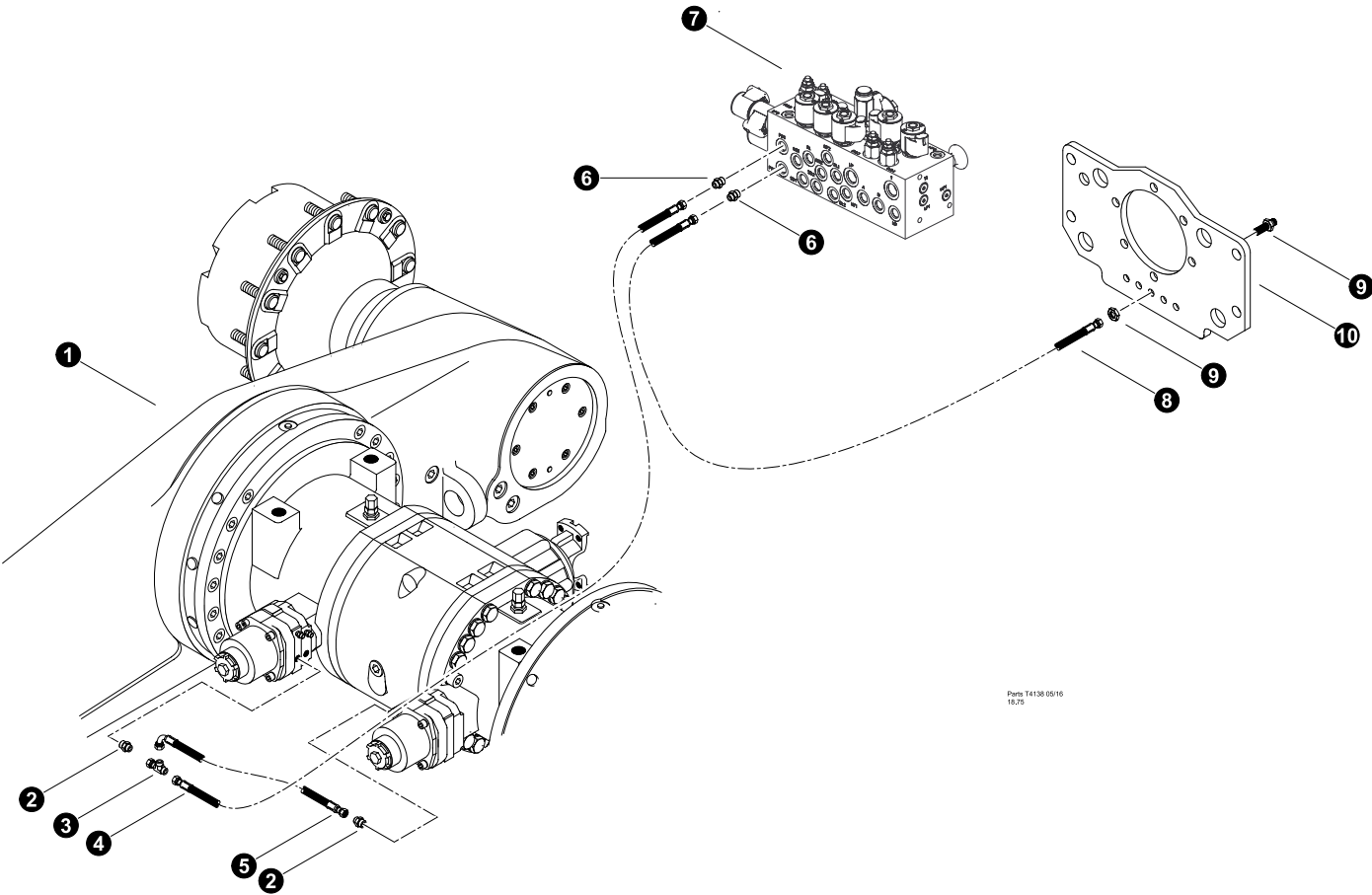
REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.	1		ROTARY MANIFOLD	UP-1
2	22405-FF	1		ELBOW, 90 - 8-6 C5OLO-S	
3	-FF	1		HOSE ASSEMBLY - 2068-08-08OS-08OS (Rotary Manifold Port "P" to Lower Manifold Port "LP")	
4	18034-FF	1		CONNECTOR, STR - FF1852T-0606S	
5	16360-FF	1		ELBOW, 90 - FF1868T-0808S	
6	15117-FF	1		CONNECTOR, STR - FF1852T-0808S	
7	REF.	1		LOWER SOLENOID MANIFOLD	FF-4
8	REF	1		WHEEL DRIVE MOTOR CASE DRAIN	FF-5
9	-FF	1		HOSE ASSEMBLY - 2046-08-08OS-08O4 (Tank to Case Drain Tee)	
10	53970-FF	1		ACCUMULATOR, LOWER BRAKE MANIFOLD	
11	-FF	1		BRACKET, accumulator mounting	
12	10802-FF	2		WASHER, FLAT - .375"	
13	10731-FF	2		BOLT - .375" X 1.5"	
14	15117-FF	1		CONNECTOR, STR - FF1852T-0808S	
15	-FF	1		HOSE ASSEMBLY - 2078-08-08OS-08O9 ("ACC" port to accumulator)	
16	-FF	1		ELBOW, 90 - 8-6 C5OLO-S	
17	-FF	1		HOSE ASSEMBLY - 2068-06-06OS-06OS ("HP" port to "HO" on RM)	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

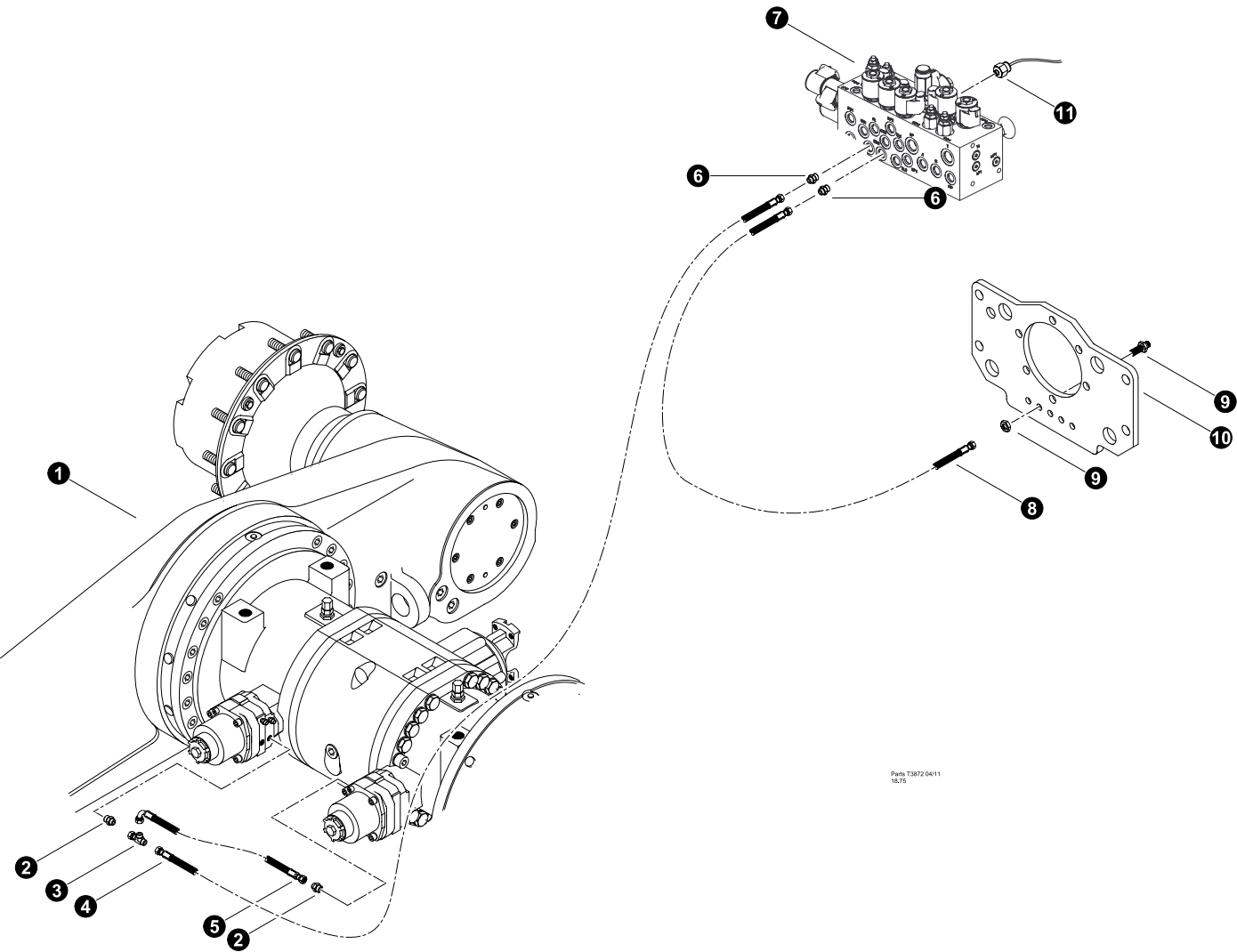


Lower Solenoid Manifold Circuits and Components Breakdown (Front Frame - Parking Brake Connections)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		FRONT AXLE	AX
2	19470-FF	2		CONNECTOR, STR METRIC - 4M14F8OMLOS	
3	15176-FF	1		TEE - FF2114T-0404S	
4	-FF	1		HOSE ASSEMBLY - 2085.5-04-040S-040S (Front Axle Parking Brake to Lower Manifold "PB" port tee)	
5	50607-FF	1		HOSE ASSEMBLY - 2009.5-04-040S-0409 (Parking Brake Jumper)	
6	15124-FF			CONNECTOR, STR - FF1852T-0406S	
7	REF.	1		LOWER SOLENOID MANIFOLD	FF-4
8	-FF	1		HOSE ASSEMBLY - 2098-04-040S-040S (Lower Manifold "PB" tee to Parking Brake Bulkhead)	
9	18582-FF	1		CONNECTOR, STR BULKHEAD - FF1994T-0404S	
10	52486-FF	1		BRACKET, BRG MOUNT - DRIVELINE 830	



See referenced page for component or assembly breakdown.

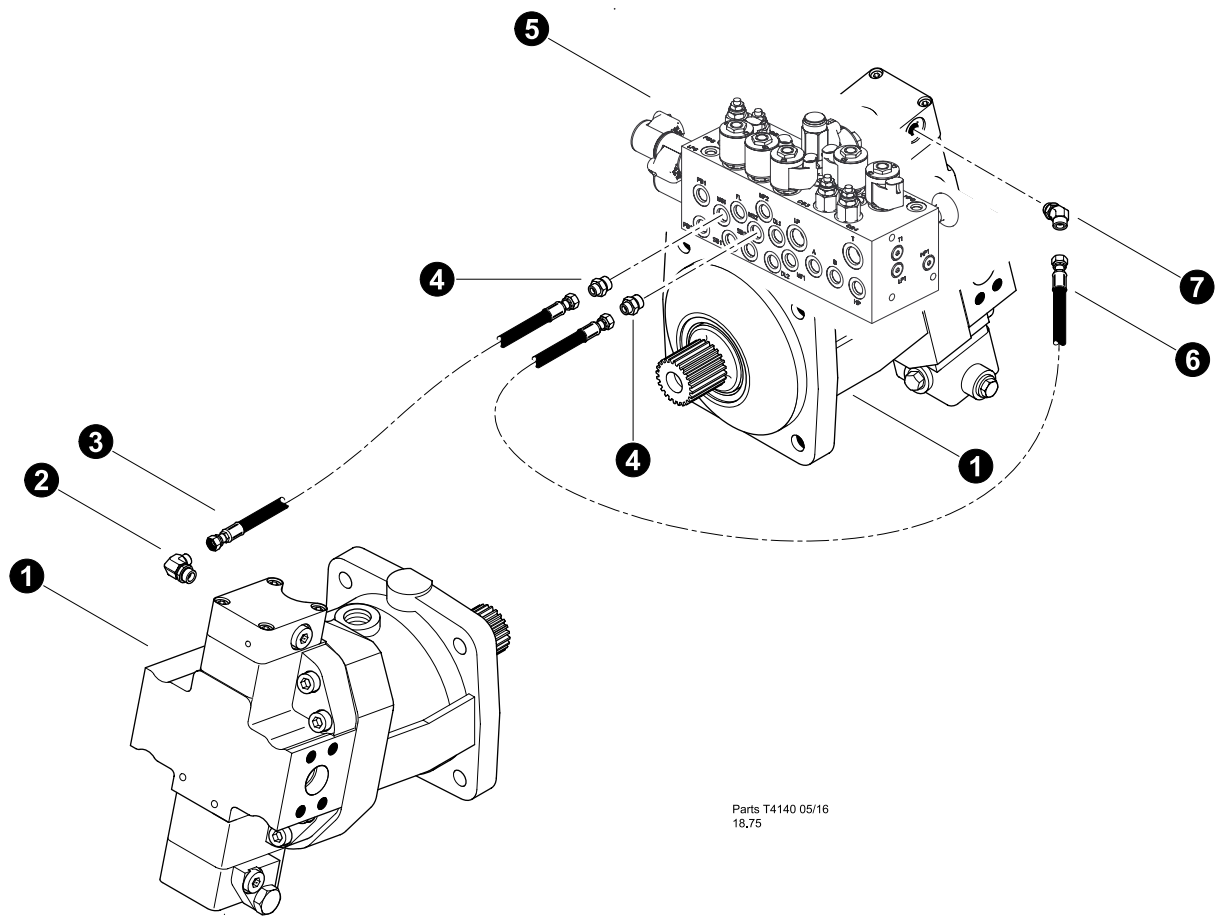


Lower Solenoid Manifold Circuits and Components Breakdown (Front Frame - Travel Brake Connections)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		FRONT AXLE	AX
2	19470-FF	2		CONNECTOR, STR METRIC - 4M14F8OMLOS	
3	15176-FF	1		TEE - FF2114T-0404S	
4	-FF	1		HOSE ASSEMBLY - 2087-04-040S-040S (Front Axle Travel Brake to Lower Manifold "TB" port tee)	
5	50607-FF	1		HOSE ASSEMBLY - 2009.5-04-040S-0409 (Travel Brake Jumper)	
6	15124-FF			CONNECTOR, STR - FF1852T-0406S	
7	REF.	1		LOWER SOLENOID MANIFOLD	FF-4
8	-FF	1		HOSE ASSEMBLY - 2103-04-040S-040S (Lower Manifold "TB" tee to Parking Brake Bulkhead)	
9	18582-FF	1		CONNECTOR, STR BULKHEAD - FF1994T-0404S	
10	52486-FF	1		BRACKET, BRG MOUNT - DRIVELINE 830	
11	54282-FF	1		SWITCH, PRESSURE - 30 PSI	



See referenced page for component or assembly breakdown.



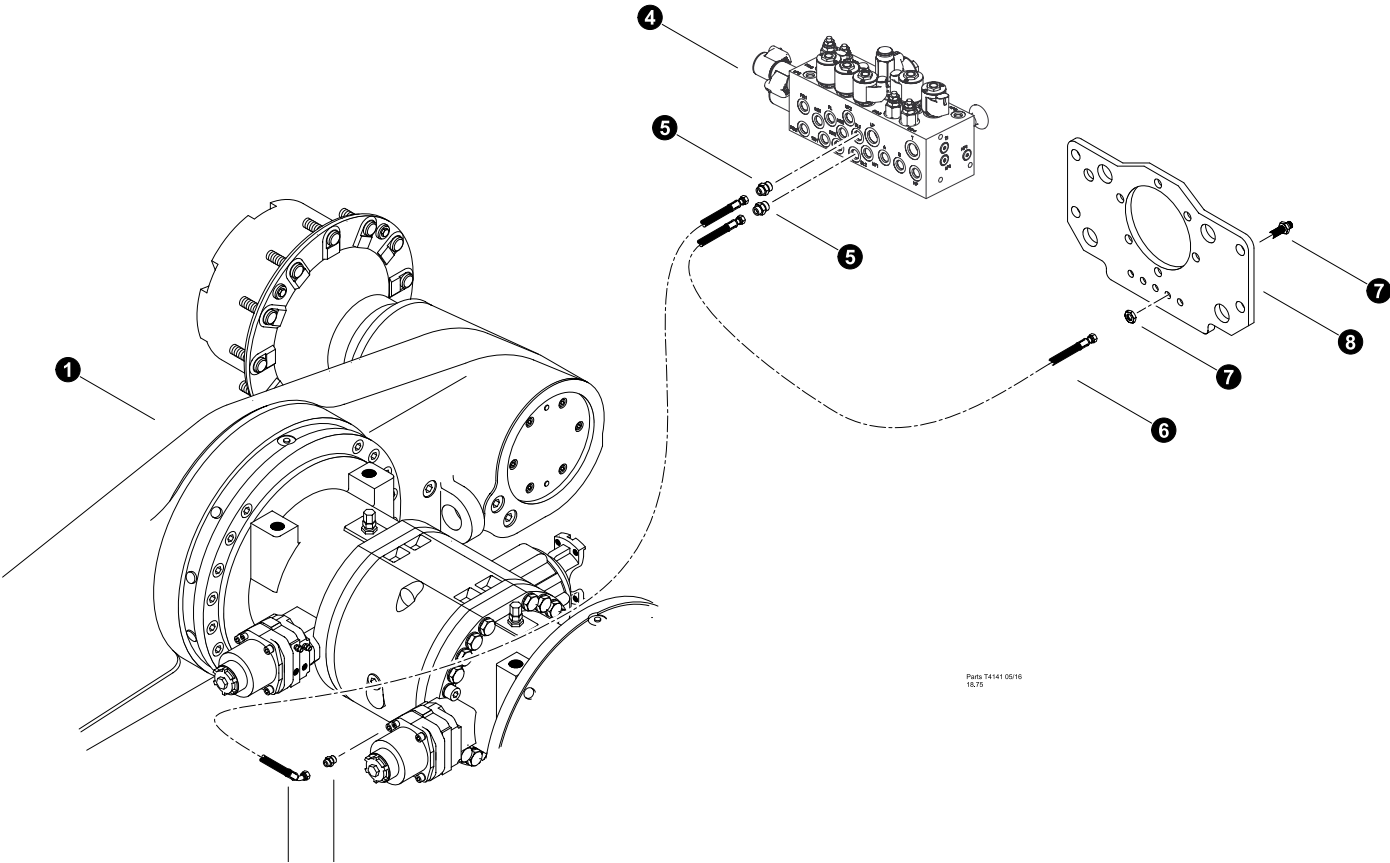
Parts T4140 05/16
18,75

Lower Solenoid Manifold Circuits and Components Breakdown (Front Frame - Motor Shift Connections)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		WHEEL DRIVE MOTOR.	FF-5
2	15133-FF			ELBOW, 90 - FF1868T-0406S	
3	-FF	1		HOSE ASSEMBLY - 2024-04-040S-040S (Front Motor to Lower Manifold "MS1" port)	
4	15124-FF			CONNECTOR, STR - FF1852T-0406S	
5	REF.	1		LOWER SOLENOID MANIFOLD.	FF-4
6	-FF	1		HOSE ASSEMBLY - 2055.5-04-040S-040S (Rear Motor to Lower Manifold "MS2" port)	
7	23322-FF	2		ELBOW, 45 - 6-4 V5OLO-S	



See referenced page for component or assembly breakdown.

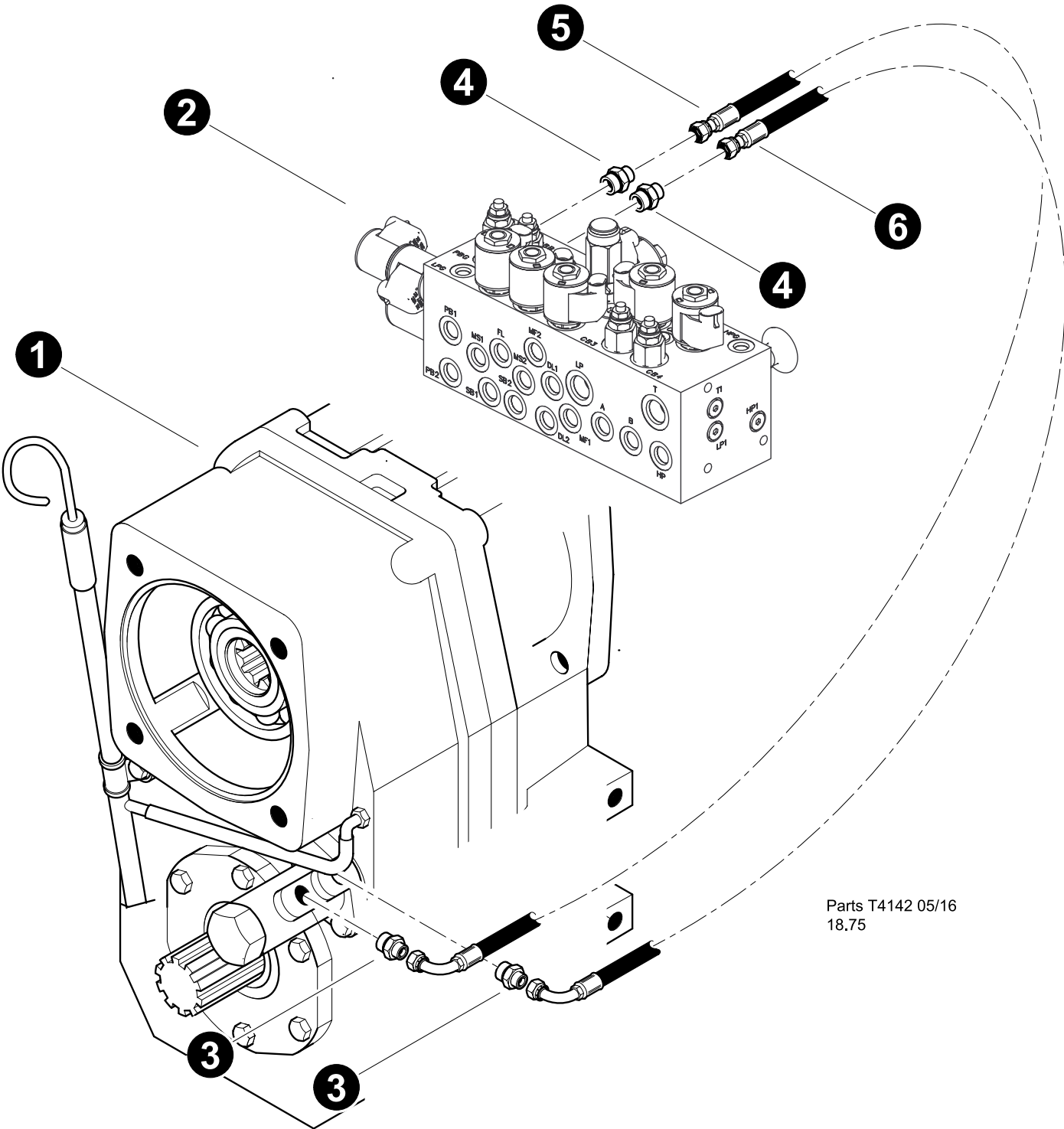


Lower Solenoid Manifold Circuits and Components Breakdown (Front Frame - Differential Lock Connections)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		FRONT AXLE	AX
2	19470-FF	1		CONNECTOR, STR METRIC - 4M14F8OMLOS	
3	-FF	1		HOSE ASSEMBLY - 2084-04-04OS-04O4 (Front Axle Differential Lock to Lower Manifold "DL" port)	
4	REF.	1		LOWER SOLENOID MANIFOLD	FF-4
5	15124-FF			CONNECTOR, STR - FF1852T-0406S	
6	-FF	1		HOSE ASSEMBLY - 2102-04-04OS-04OS (Differential Lock Bulkhead to Lower Manifold "DL2" port)	
7	18582-FF	1		CONNECTOR, STR BULKHEAD - FF1994T-0404S	
8	52486-FF	1		BRACKET, BRG MOUNT - DRIVELINE 830	
9	23322-FF	1		ELBOW, 45 - 6-4 V5OLO-S	



See referenced page for component or assembly breakdown.



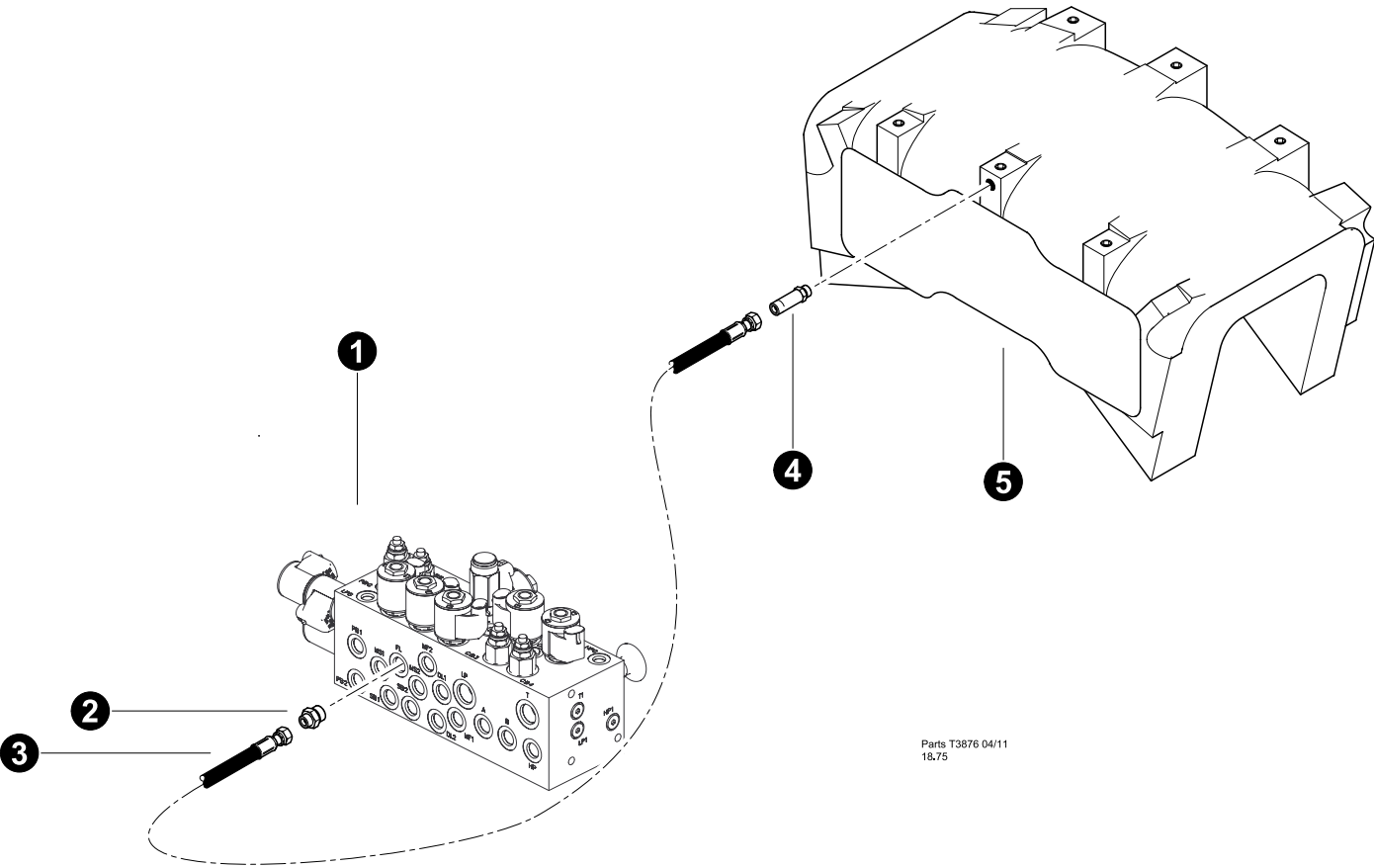
Parts T4142 05/16
18.75

Lower Solenoid Manifold Circuits and Components Breakdown (Front Frame - Gear Box Shift Connections)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		TRANSFER CASE (NAF).....	AX
2	REF.	1		LOWER SOLENOID MANIFOLD.....	FF-4
3	19470-FF	2		CONNECTOR, STR METRIC - 4M14F8OMLOS	
4	15124-FF	1		CONNECTOR, STR - FF1852T-0406S	
5	-FF	1		HOSE ASSEMBLY - 2043.5-04-040S-0409 (Front Shift Port to Lower Manifold "GA" port)	
6	-FF	1		HOSE ASSEMBLY - 2039.5-04-040S-0409 (Rear Shift Port to Lower Manifold "GB" port)	



See referenced page for component or assembly breakdown.

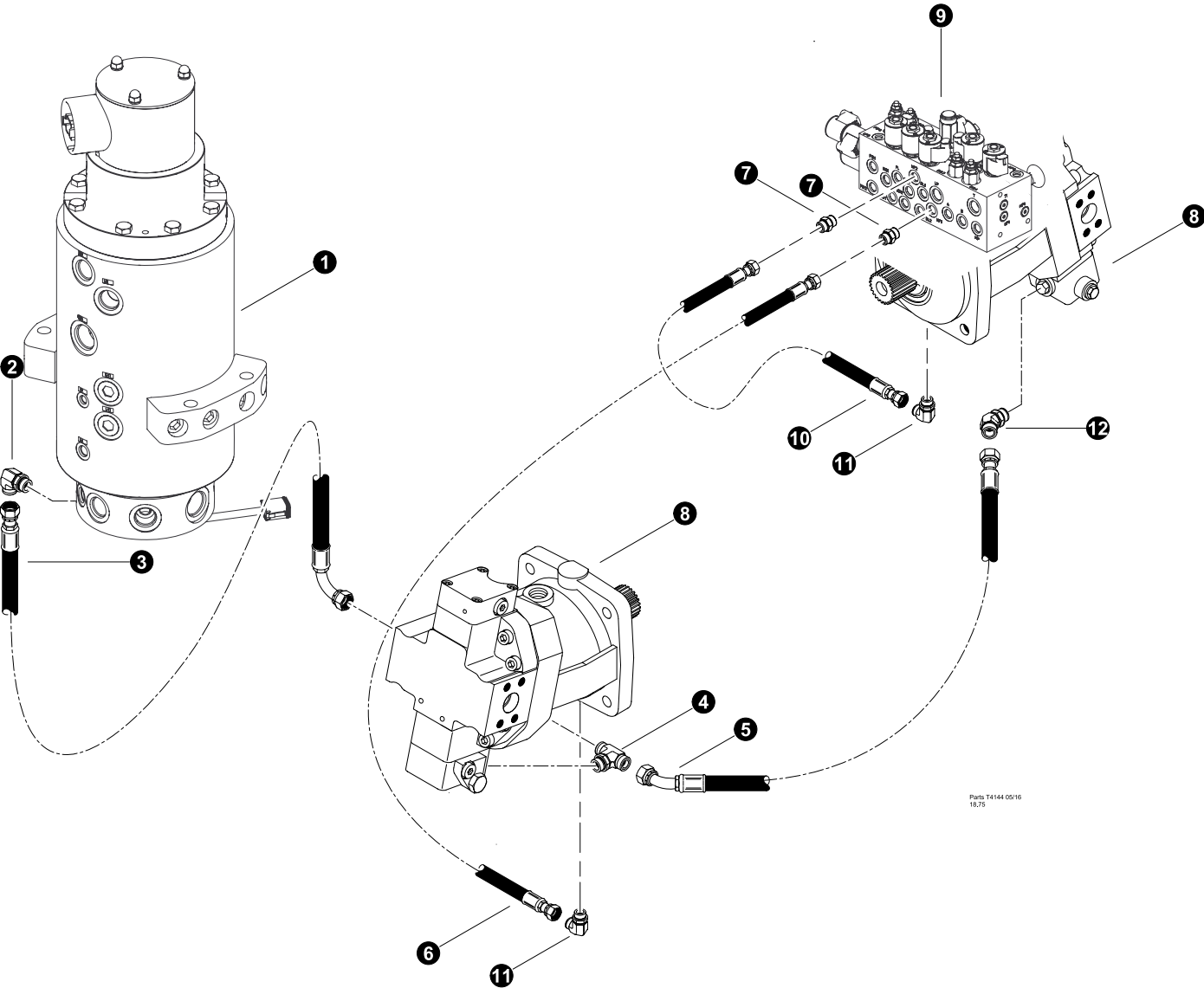


Lower Solenoid Manifold Circuits and Components Breakdown (Front Frame - Frame Lock Connections)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		LOWER SOLENOID MANIFOLD	FF-4
2	15124-FF	1		CONNECTOR, STR - FF1852T-0406S	
3	-FF	1		HOSE ASSEMBLY - 2074-04-040S-040S (Lower Manifold "FL" port to frame lock caliper)	
4	20991-FF	2		CONNECTOR, STR LONG - 848L-TTO-04X04	
5	REF.	1		FRAME LOCK CALIPER BRAKE.	FF-4



See referenced page for component or assembly breakdown.



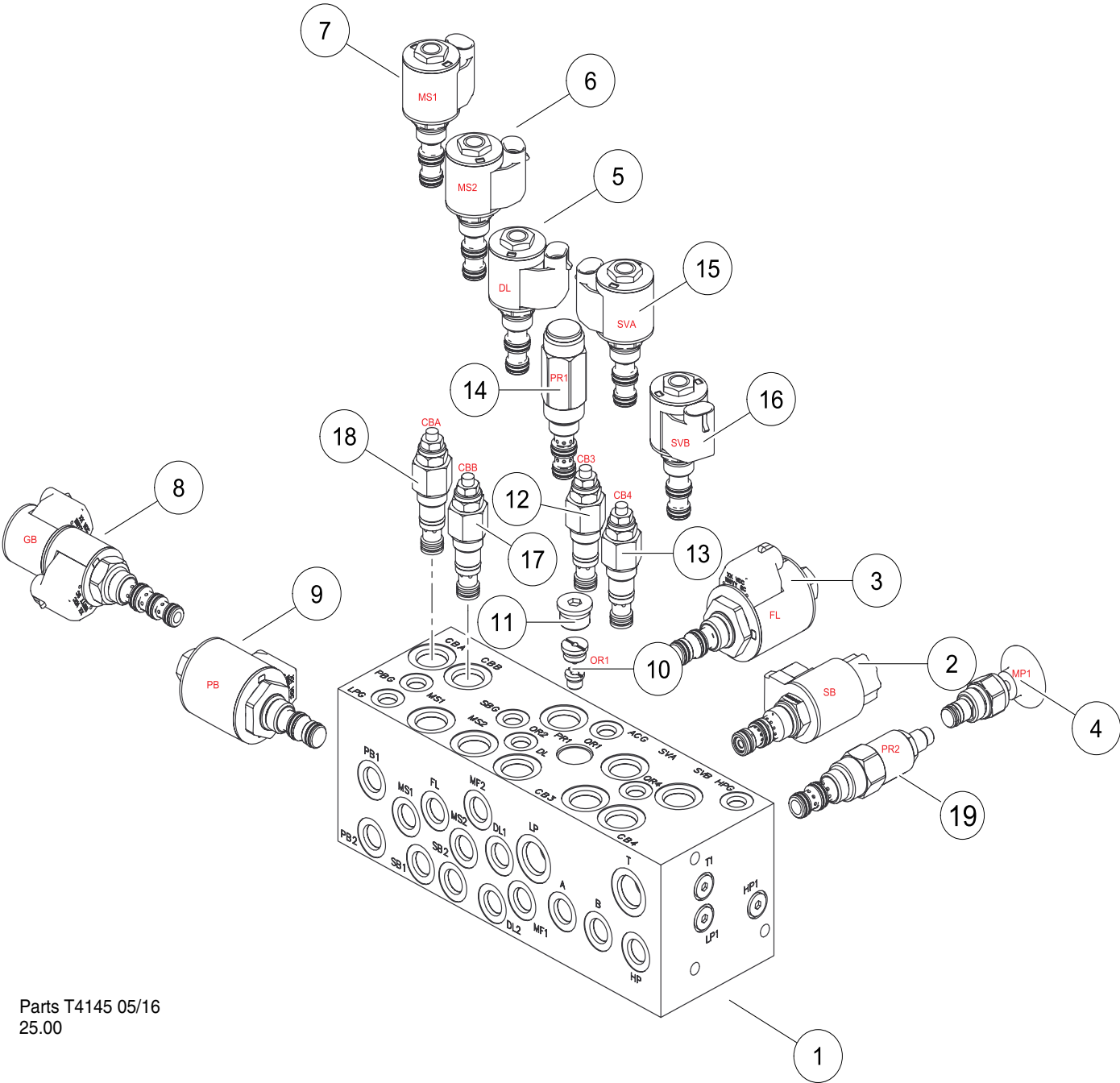
Parts 14144 05/16
18.75

Lower Solenoid Manifold Circuits and Components Breakdown (Front Frame - Motor Flushing Supply and Return Connections)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ROTARY MANIFOLD	UP-1
2	16360-FF	1		ELBOW, 90 - FF1868T-0808S	
3	-FF	1		HOSE ASSEMBLY - 2051-08-080S-0809 (Rotary Manifold port "LV1" to flushing return tee) "No Clam Bunk Installed"	
4	20066-FF	1		TEE - 8 S5OLO-S - BRANCH	
5	-FF			HOSE ASSEMBLY - 2043-08-080S-0804 (Front to Rear Motor Flushing Return Lines)	
6	-FF	1		HOSE ASSEMBLY - 2026.5-06-06OS-06OS (MF1 to Front Motor)	
7	18034-FF	2		CONNECTOR, STR - FF1852T-0606S	
8	REF.	1		WHEEL DRIVE MOTOR	FR-5
9	REF.	1		LOWER SOLENOID MANIFOLD	FF-4
10	-FF	1		HOSE ASSEMBLY - 2046-08-08OS-08OS (MF2 to Rear Motor)	
11	20031-FF	1		ELBOW, 90 - 6-8 C5OLO-S	
12	19126-FF	1		ELBOW, 45 - FF2068T-0808S	



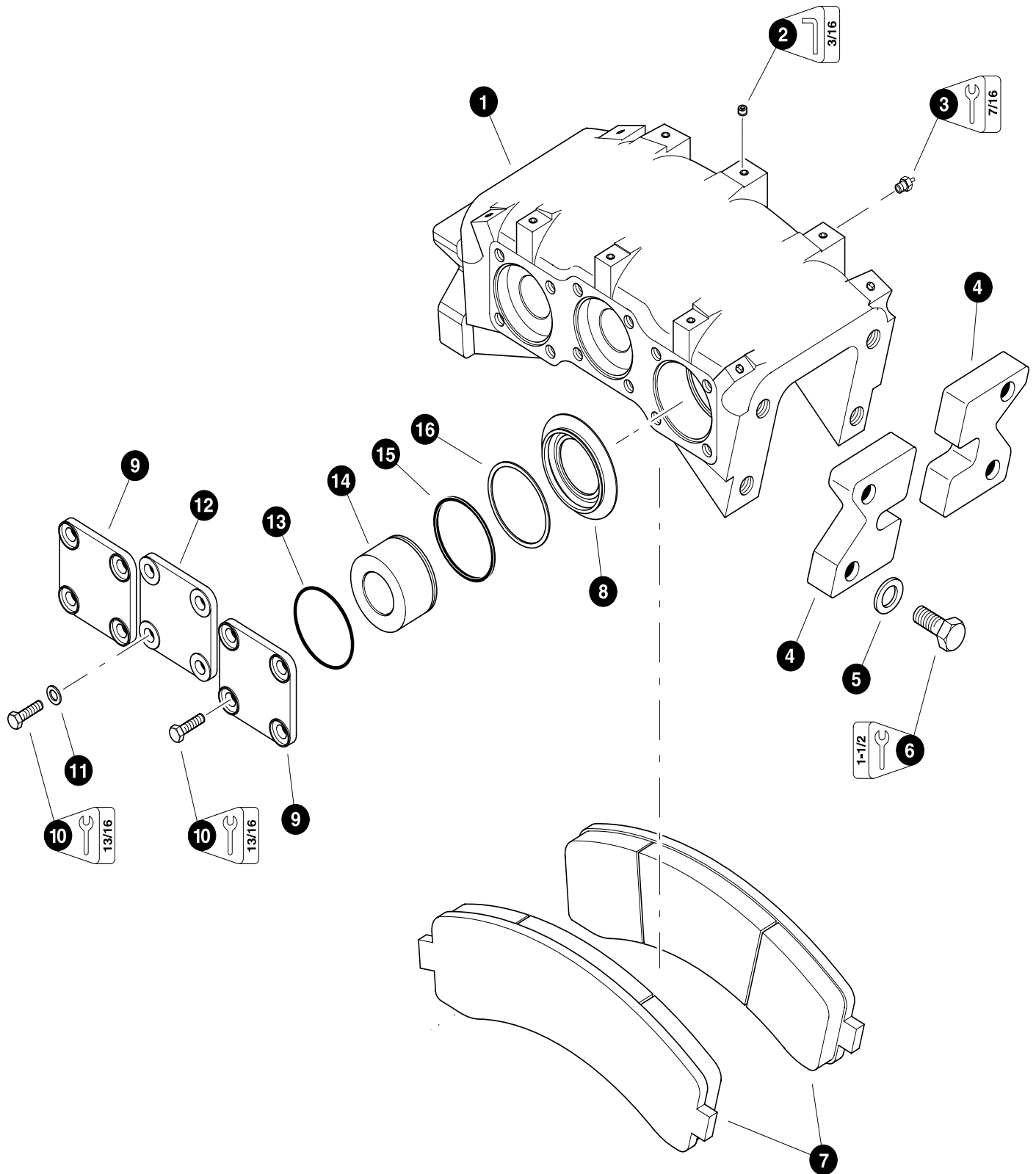
See referenced page for component or assembly breakdown.



Parts T4145 05/16
25.00

Lower Solenoid Manifold Circuits and Components Breakdown (Lower Solenoid Manifold Breakdown)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	54263-FF	1	☐	VALVE, LOWER MANIFOLD - Fluid Systems	
2	-FF	1	■	Valve, Proportional (PDR08-01-C-N-110-24PN-8.8) Service Brake	
3	-FF	1	⌘	Valve, Directional Control (SV38-38-N-24EY) Frame Lock	
4	-FF	1	☒	Valve, Manual Directional Valve (MP08-20J) ACC Pressure Bleed	
5	-FF	1	⌘	Valve, Directional Control (SV08-31-0-N-24EY) Diff Lock	
6	-FF	1	⌘	Valve, Directional Control (SV08-31-0-N-24EY) Motor Shift 1	
7	-FF	1	⌘	Valve, Directional Control (SV08-31-0-N-24EY) Motor Shift 2	
8	-FF	1	◆	Valve, Directional Control (SV08-47D-0-N-24EY) Gear Box Shift	
9	-FF	1	⌘	Valve, Directional Control (SV38-38-N-24EY) Parking Brake	
10	-FF	1		VENTURI PLUG, 210101804 - 90 & 91	
11	-FF	1		PLUG, 08 ORB	
12	-FF	1	❖	Valve, Counterbalance (5008-3-500)	
13	-FF	1	❖	Valve, Counterbalance (5008-3-500)	
14	-FF	1	⊗	Valve, Pressure Reducing (PR58-38H-0-N-20/9.0) 900PSI PARK BRAKE	
15	-FF	1	⌘	Valve, Directional Control (SV08-31-0-N-24EY) Step Valve A	
16	-FF	1	⌘	Valve, Directional Control (SV08-31-0-N-24EY) Step Valve B	
17	-FF	1	❖	Valve, Counterbalance (5008-3-500) Gear Shift Load Check Valve	
18	-FF	1	❖	Valve, Counterbalance (5008-3-500) Gear Shift Load Check Valve	
19	-FF	1	⊗	Valve, Pressure Reducing (PR58-38H-0-N-20/5.0) 500 PSI STEP	
-	53921-FF	1	☐	VALVE, GATE VALVE (optional)	
23	-FF	1	◆	Valve, Directional Control (SV08-47D-0-N-24EY) Gate Control	
24	-FF	1	❖	Valve, Counterbalance (5008-3-500)	
25	-FF	1	❖	Valve, Counterbalance (5008-3-500)	
26	-FF	1		BLOCK, (204101401-44B)	
27	-FF	1		O-Rings	
28	-FF	1		Bolts,	
☐	Kit or Assembly - includes all items indented underneath.				
⌘	Seal Repair Kit (SK08-3N-MM) / Coil (4303810) / Nut (7004400)				
●	Seal Repair Kit (SK10-3N-BM)				
■	Seal Repair Kit (03054795) / Coil (24PN-8.8-40-1836)				
◆	Seal Repair Kit (SK08-4N-MMM) / Coil (4303810) / Nut (7004400) / Spacer (4534720)				
❖	Seal Repair Kit (12106)				
☒	Seal Repair Kit (SK08-2X-T)				
⊗	Seal Repair Kit (SK08-3X-BM)				



Lower Solenoid Manifold Circuits and Components Breakdown (Frame Lock Caliper Breakdown)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	20953-FF	1		FRAME LOCK BRAKE	
1	NSS	1		HOUSING	
2	-----	13		PLUG	
3	-----	1		SCREW, bleed	
4	-----	4		RETAINER, brake pad	
5	-----	8		WASHER	
6	-----	8		BOLT	
7	24406-FF	1		PAD, brake (pair)	
8	NSS	6		BOOT, piston	
9	23445-FF	2		COVER, piston (Machined special to countersink bolt heads)	
10	24088-FF	12		BOLT - 9/16" x 1-1/4"	
11	-----	4		WASHER	
12	23444-FF	1		COVER, piston	
13	NSS	6		O-RING, piston cover	
14	24434-FF	6		PISTON, brake caliper	
15	NSS	6		SEAL, piston	
16	NSS	6		RING, back-up	
-	23113-FF	1		KIT, seal repair - frame lock brake	



Kit or Assembly - includes all items indented underneath.



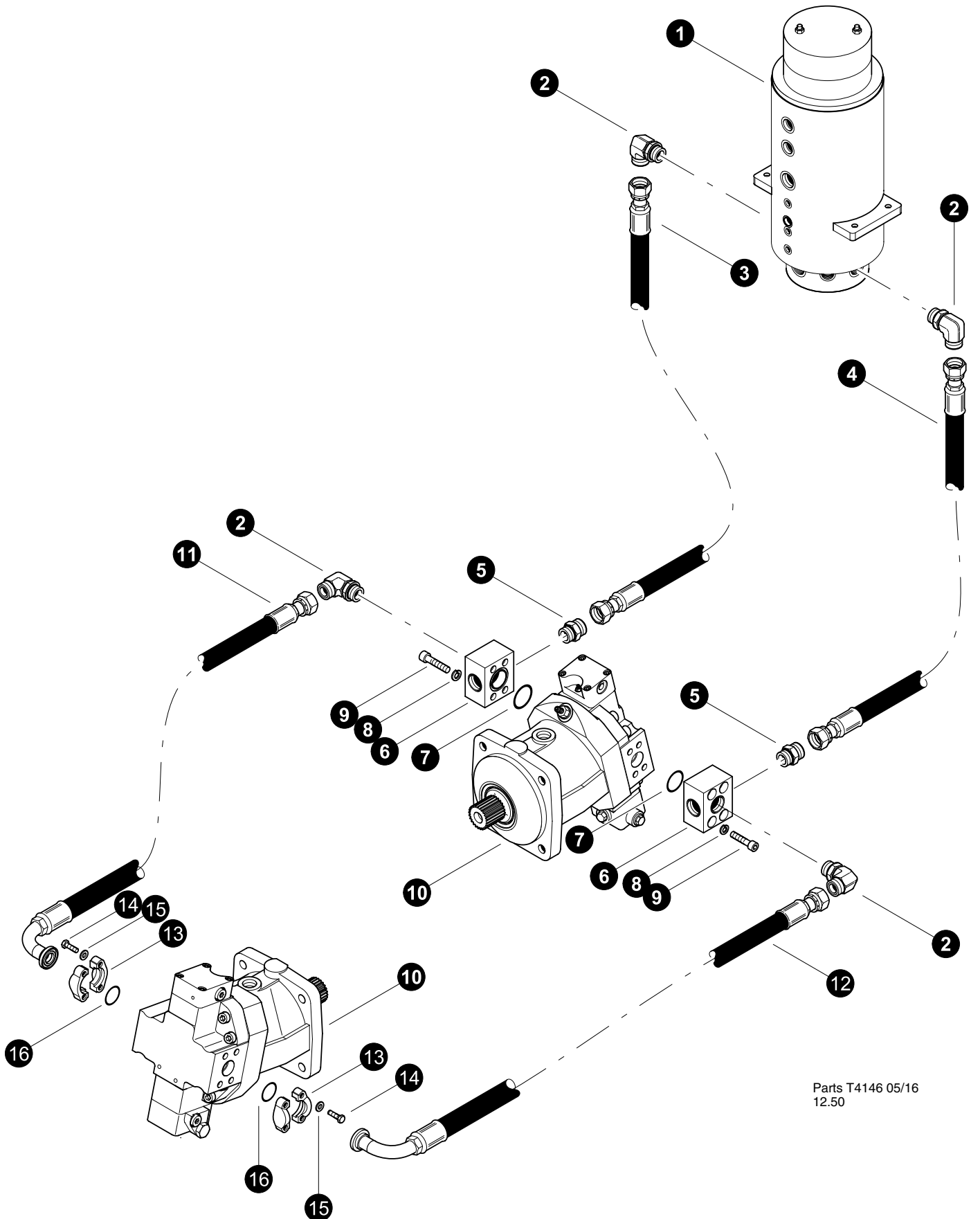
Included in seal repair kit PN# 23113.

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Section FF-5

830, 840 Front Frame - Drive Motor Hydraulics



Parts T4146 05/16
12.50

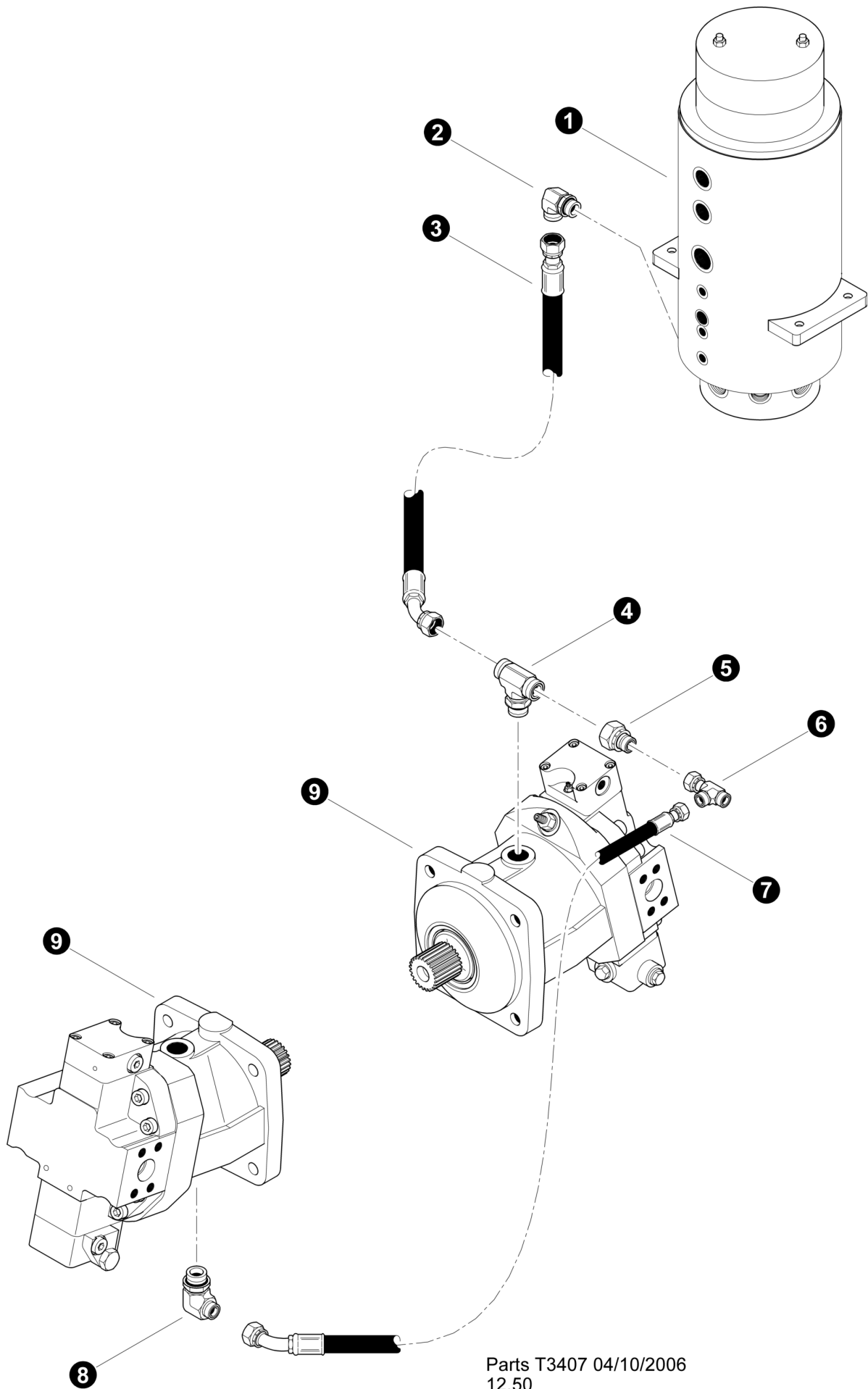
DRIVE MOTOR HYDRAULICS

Front to Rear Hydraulic Motor Connection - Pressure (Standard Front and All Rear Frames)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ROTARY MANIFOLD.	UP-1
2	15484-FF	2		ELBOW, 90 - 6801-16	
3	-FF	1		HOSE ASSEMBLY - 6033-16-16OS-16OS (Rotary manifold lower port "WD1" to Drive Motor)	
4	-FF	1		HOSE ASSEMBLY - 6033-16-16OS-16OS (Rotary manifold lower port "WD2" to Drive Motor)	
5	15497-FF	2		CONNECTOR, straight - 6400-16	
6	26008-FF	4		MANIFOLD, rexroth drive motor	
7	15378-FF	2		O-RING, 1.25"	
8	50075-FF	8		WASHER, LOCK 1/2	
9	50074-FF	8		BOLT, ALLEN 1/2 X 1 1/2"	
10	REF	1		HYDRAULIC WHEEL DRIVE MOTOR	FF-5
11	-FF	2		HOSE ASSEMBLY - 6037.5-16-16OS-16OS (Front Drive Motor to Rear Drive Motor)	
12	-FF	2		HOSE ASSEMBLY - 6039-16-16OS-16OS (Front Drive Motor to Rear Drive Motor)	
13	15114-FF	2		KIT, SPLIT FLANGE - 1.25" (CODE 62)	
14	-FF	8		BOLT	
15	-FF	8		LOCK WASHER	
16	15378-FF	2		O-RING - 1.25" SF (CODE 61/62)	



See referenced page for component or assembly breakdown.



Parts T3407 04/10/2006
12.50

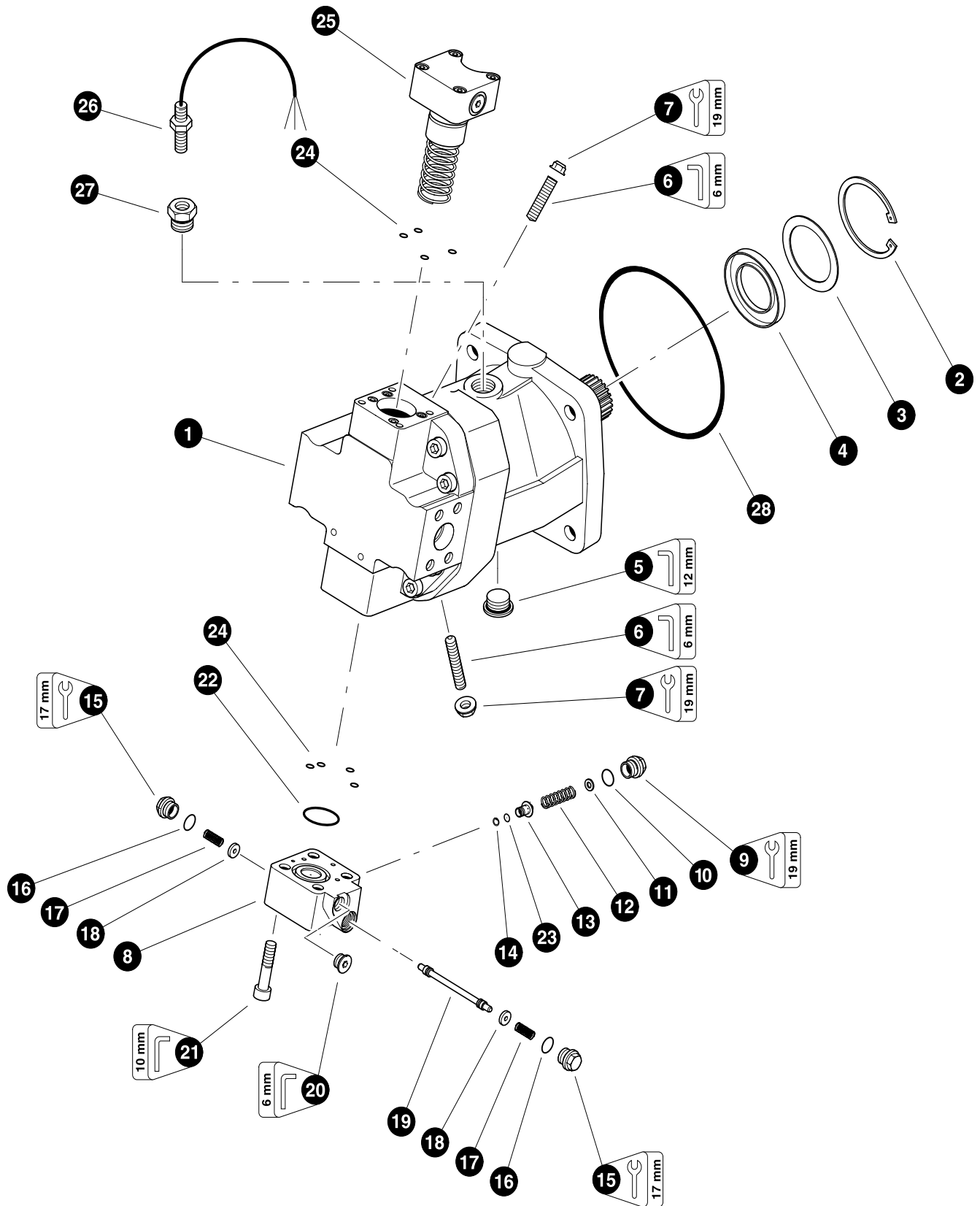
DRIVE MOTOR HYDRAULICS

ROTARY MANIFOLD TO REAR DRIVE MOTOR (Standard Front and All Rear Frames)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ROTARY MANIFOLD.	UP-1
2	17688-FF	1		ELBOW, 90 - FF1868T-1212S	
3	-FF	1		HOSE ASSEMBLY - 2049-12-120S-1204 (Motor Case Drain to port "V1")	
4	20029-FF	1		TEE, BULKHEAD RUN - 12 WJJLO-WLNL-S	
5	15117-FF	1		CONNECTOR, REDUCER - ORS FF2281T-0812S	
6	20066-FF	1		TEE - 8 S5OLO-S - BRANCH	
7	50975-FF	1		HOSE ASSEMBLY - 2039.5-08-080S-0804 (Case Drain Motor Jumper)	
8	15372-FF	1		ELBOW, 90 - FF1868T-0812S	
9	REF	1		HYDRAULIC WHEEL DRIVE MOTOR	FF-5



See referenced page for component or assembly breakdown.



REXROTH 160cc MOTOR**(Standard)**

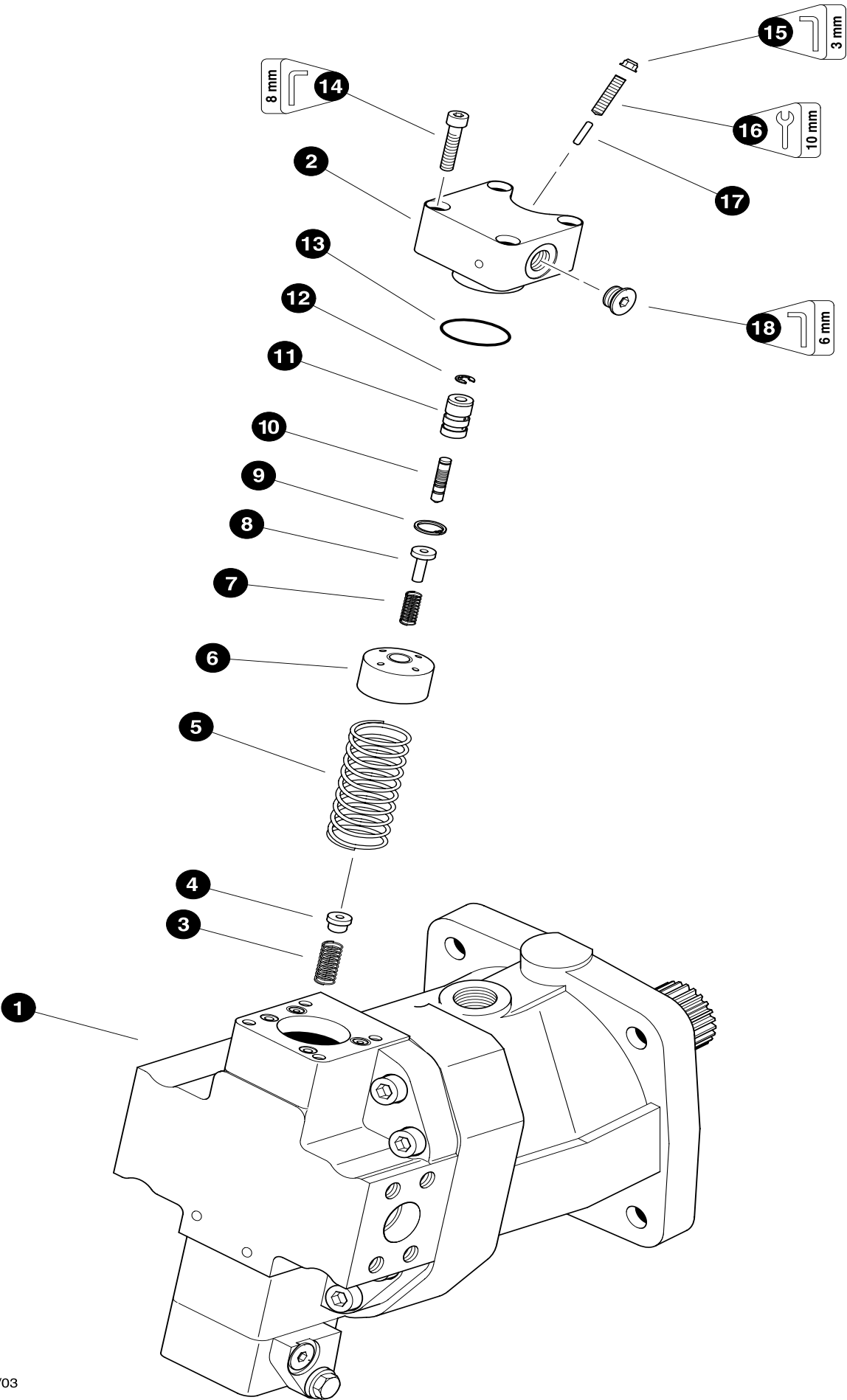
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	51869-0-FF	1	☐	MOTOR, wheel drive - Rexroth AA6VM160 (Front) (w/speed counter ring) (Vg Min = 0 cubic meters) (flushing)	
	51869-70-FF	1	☐	MOTOR, wheel drive - Rexroth AA6VM160 (Rear) (w/speed counter ring) (Vg Min = 70 cubic meters) (flushing)	
2	20685-FF	1		RING, snap	
3	20686-FF	1		SHIM, shaft seal	
4	20687-FF	1	⌘	SEAL, shaft	
5	19692-FF	1		PLUG - 26mm-1.5P (BSPP thread)	
6	51987-FF	1		SCREW, adjusting (0 - Displacement min)(needed for front motor)	
	20688-FF	2		SCREW, adjusting (Displacement min & max)	
7	20689-FF	2	⌘	NUT, seal	
8	20690-FF	1	☐	STROKING PISTON COVER ASSEMBLY	
9	20691-FF	1		PLUG	
10	20713-FF	1	⌘	O-RING	
11	20714-FF	1		SHIM	
12	20715-FF	1		SPRING	
13	20716-FF	1		POPPET	
14	20718-FF	1		RING, snap	
15	20719-FF	2		PLUG	
16	20720-FF	2	⌘	O-RING	
17	20721-FF	2		SPRING	
18	20722-FF	2		RETAINER, spring	
19	NSS	1		SPOOL	
20	20693-FF	1		PLUG - 14mm-1.5P (BSPP thread)	
21	20723-FF	4		BOLT, allen head	
22	20724-FF	1	⌘	O-RING	
23	20717-FF	1		ORIFICE, flushing - 1.2mm	
24	NSS	8		O-RING	
25	REF.	1		STROKING PISTON CONTROL ASSEMBLY	FF-5
26	24656-FF	1		SENSOR, SPEED PICKUP (rexroth hydro motor)	
27	51098-FF	1		FITTING, speed pickup rexroth (sae)	
28	20967-FF	1		O-RING, WHEEL DRIVE MOTOR (gearbox pilot)	
-	20725-FF	1		KIT, seal repair - complete AA6VM160 motor	

☐ Kit or Assembly - includes all items indented underneath.

⌘ Included in seal repair kit Part # 20725-FF.

Note:

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



REXROTH 160cc MOTOR HA2T Controler Brakedown

(Standard)				
REF	PART #	QTY		DESCRIPTION
1	51869-0-FF	1	☐	MOTOR, wheel drive - Rexroth AA6VM160 (<i>Front</i>) (w/speed counter ring) (Vg Min = 0 cubic meters) (<i>flushing</i>)
	51869-70-FF	1	☐	MOTOR, wheel drive - Rexroth AA6VM160 (<i>Rear</i>) (w/speed counter ring) (Vg Min = 70 cubic meters) (<i>flushing</i>)
2	20726-FF	1	☐	CONTROL, MOTOR STROKE ASSEMBLY (HA2T)
3	---	1		SPRING, (HU00444549)
4	---	1		RETAINER, spring (HU00421860)
5	---	1		SPRING (HU00651116)
6	---	1		BUSHING, spring (HU00651118)
7	20729-FF	1		SPRING
8	---	1		RETAINER, spring (HU00921351)
9	20731-FF	1		RING, snap
10	---	1		SPOOL, control (HU00430748)
11	20732-FF	1		BUSHING, control spool
12	20734-FF	1		E-CLIP, control spo
13	---	1	⌘	O-RING (68103-025)
14	---	4		BOLT, allen head (60118-063)
15	20737-FF	1	⌘	NUT, seal
16	20738-FF	1		SCREW, adjusting (<i>Stroke control</i>)
17	---	1		PIN, stroke adjustment (69116-019)
18	20693-FF	1		PLUG - 14mm-1.5P (<i>BSPP thread</i>)
-	20725-FF	1		KIT, seal repair - complete AA6VM160 motor
☐	Kit or Assembly - includes all items indented underneath.			
⌘	Included in seal repair kit Part # 20725-FF			

Note:

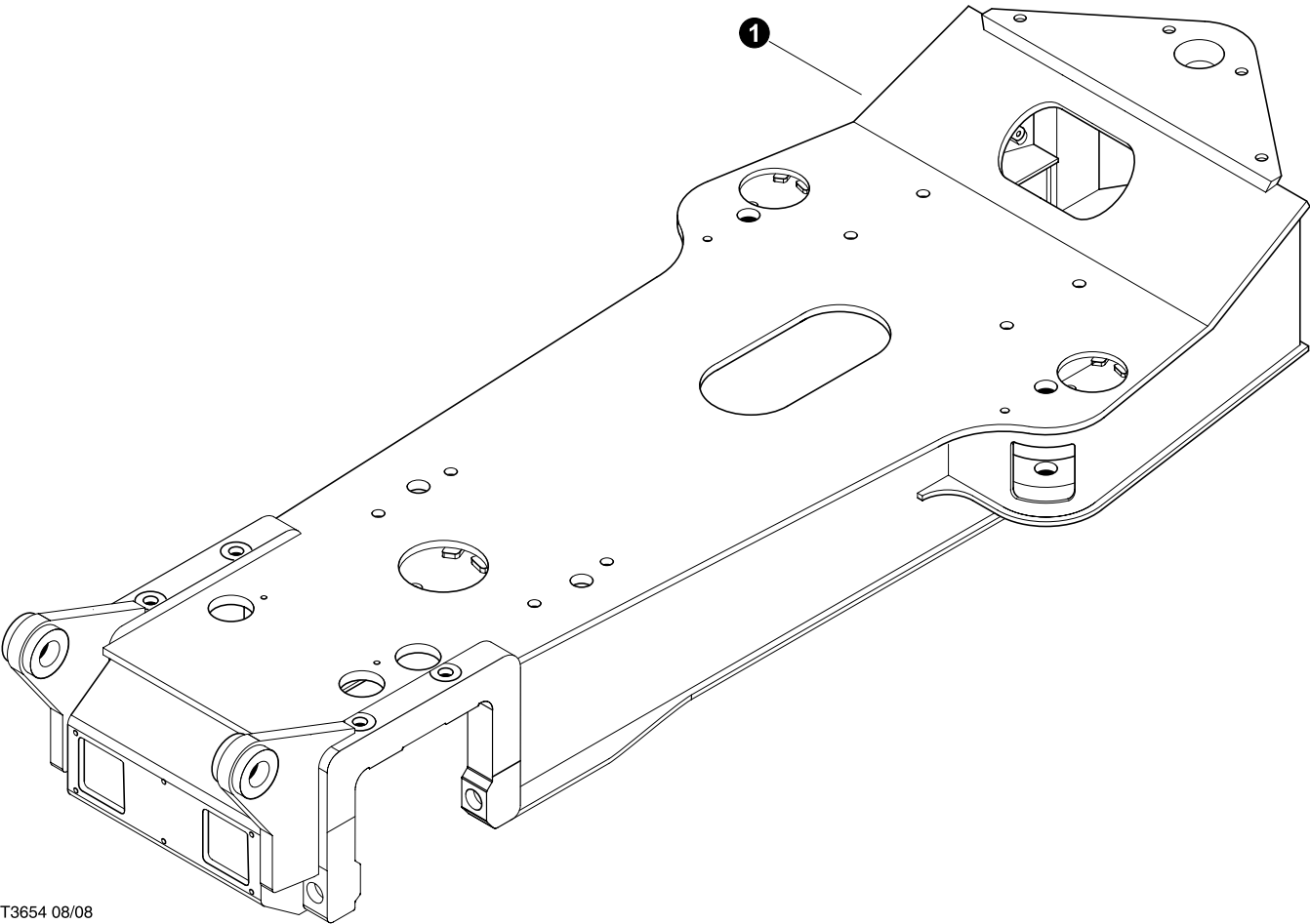
Due to warranty policy restrictions imposed by component suppliers, it is not recommended that the component be disassembled further than is shown in the illustration.

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Section FR-1

830 / 840 Rear Frame - Structural / Covers / Pins

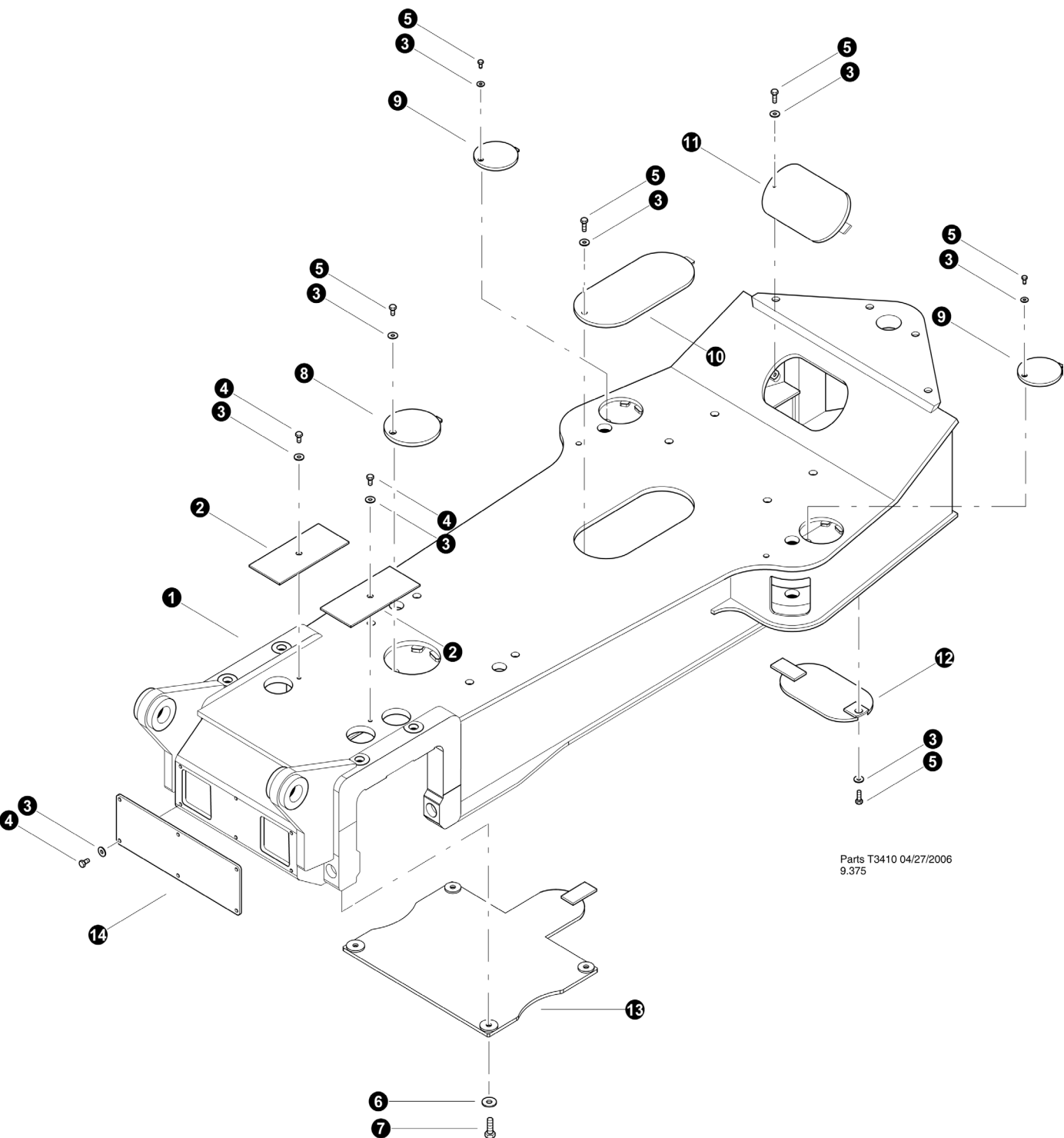


Parts T3654 08/08
9.375

REAR FRAME WELDMENT

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	52914-FR	1	FRAME, REAR STD 830 NON-LEVEL TAPER PIN (<i>Standard length</i>)	
	52915-FR	1	FRAME, REAR +24 830 NON-LEVEL TAPER PIN (<i>24" longer</i>)	
	52916-FR	1	FRAME, REAR +46 830 NON-LEVEL TAPER PIN (<i>46" longer</i>)	

☐ Kit or Assembly - includes all items indented underneath.



Parts T3410 04/27/2006
9.375

REAR FRAME ACCESS COVERS

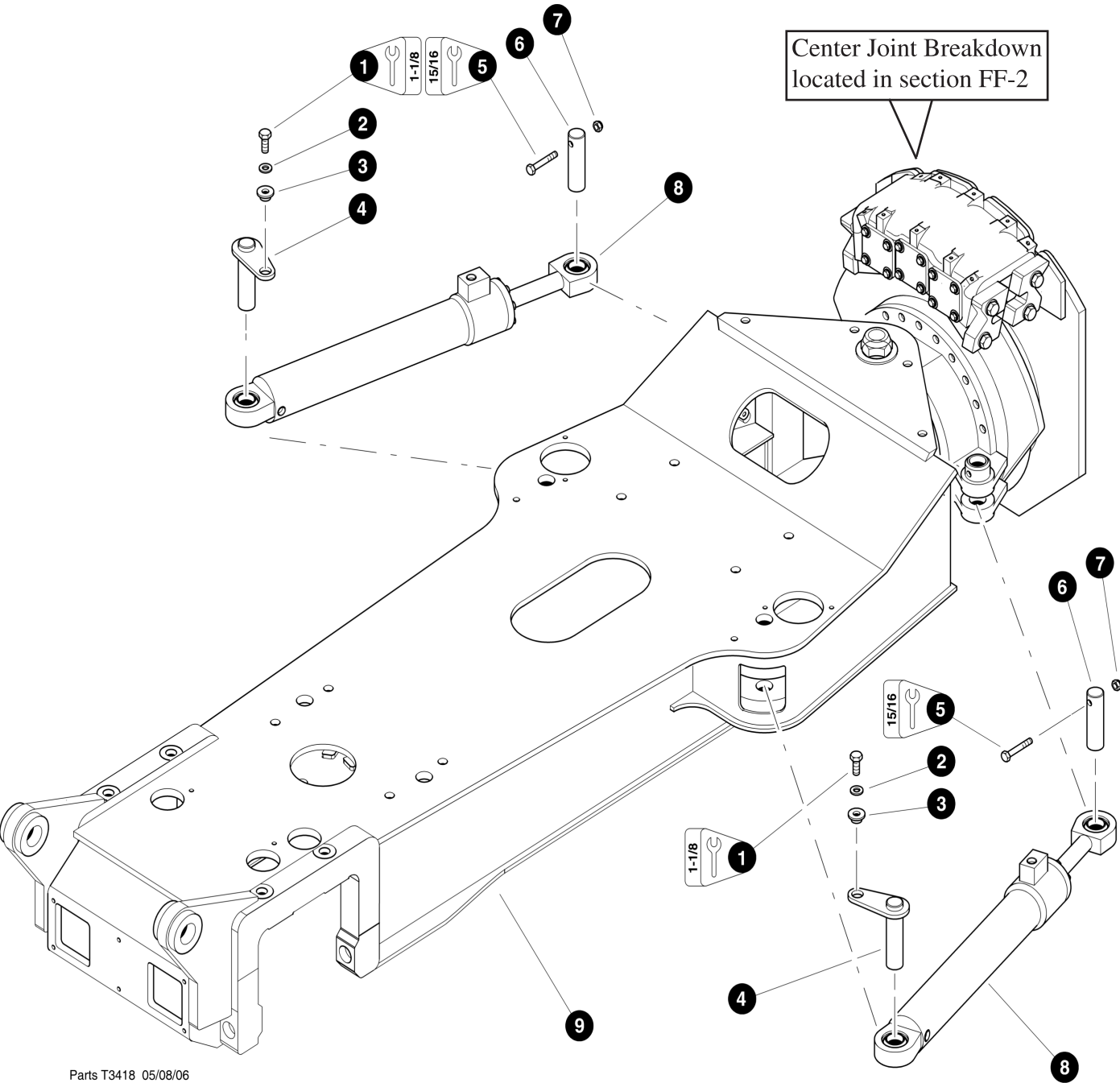
REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		REAR FRAME WELDMENT	FR-1
2	42162-FR	2		COVER, access - rear frame axle top	
3	15534-FR	39		WASHER, SAE flat - 1/2"	
4	10783-FR	9		BOLT - 1/2" x 1"	
5	10739-FR	30		BOLT - 1/2" x 1-1/2"	
6	10771-FR	16		WASHER, SAE flat - 5/8	
7	15681-FR	8		BOLT, 5/8 X 2.25"	
8	52446-FR	1		COVER, TOP REAR ROUND 8"	
9	52475-FR	2		COVER, TOP REAR ROUND 6"	
10	52537-FR	1		COVER, TOP REAR OBLONG 9 X 24	
11	52477-FR	1		COVER, TOP REAR OBLONG 8 X 14	
12	52846-FR	1		COVER, BOTTOM REAR (standar frame)	
13	52215-FR	1		COVER, AXLE BOTTOM AXLE-5" END - NEW	
14	52489-FR	1		COVER, access - axle box end	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



STEER CYLINDER INSTALLATION

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	15549-FR	2	BOLT - 3/4" x 2"	
2	15550-FR	2	WASHER, SAE flat - 3/4"	
3	18570-FR	2	WASHER, pin retaining	
4	80769-FR	2	PIN, steer cylinder mounting - base	
5	10719-FR	2	BOLT - 5/8" x 4"	
6	19448-FR	2	PIN, steer cylinder mounting - rod	
7	15563-FR	2	NUT, nylock - 5/8"	
8	REF.	2	 STEER CYLINDER	FR-3
9	REF.	1	REAR FRAME WELDMENT	FR-1



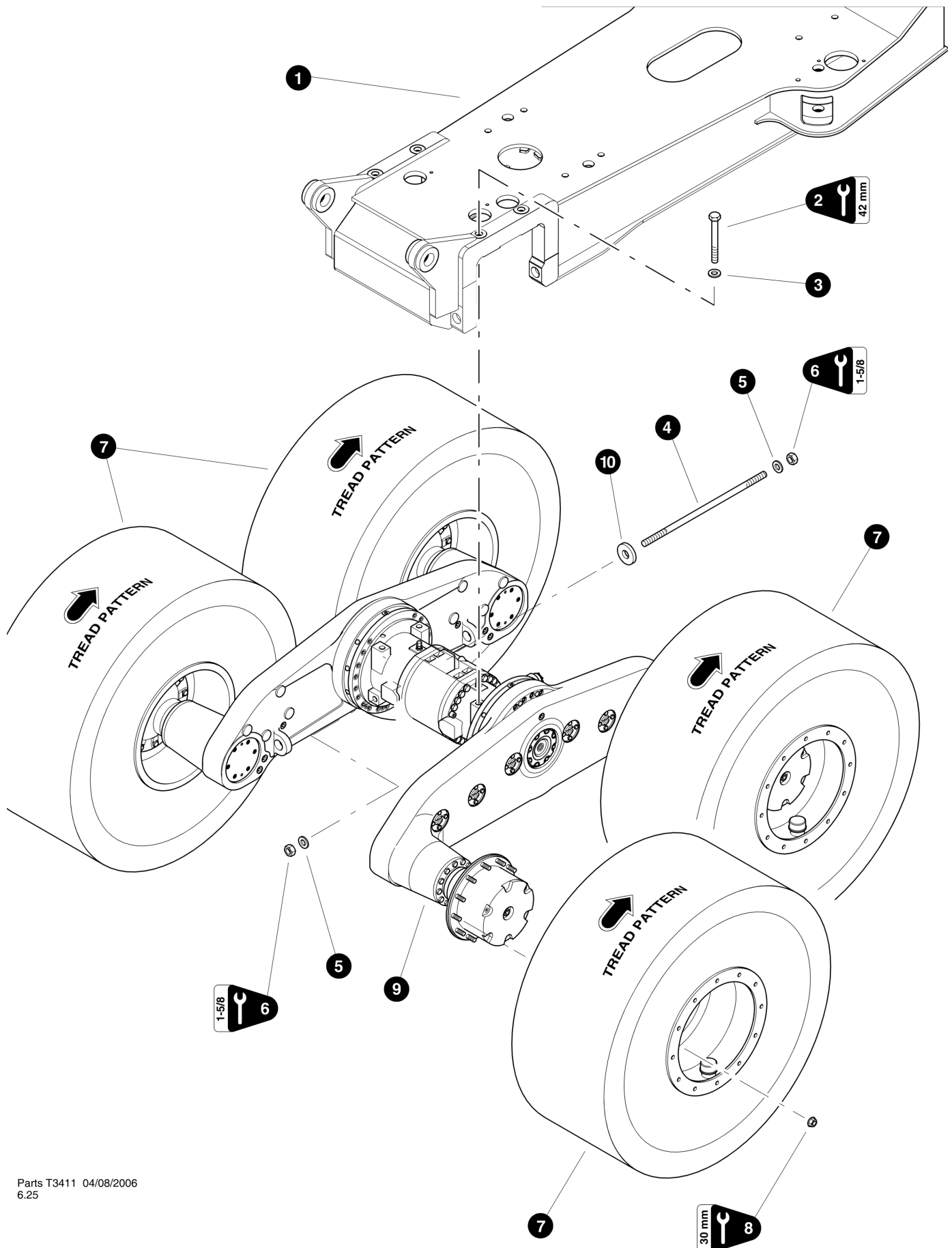
See referenced page for component or assembly breakdown.

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Section FR-2

830, 840 Rear Frame - Frame & Drivetrain Installation



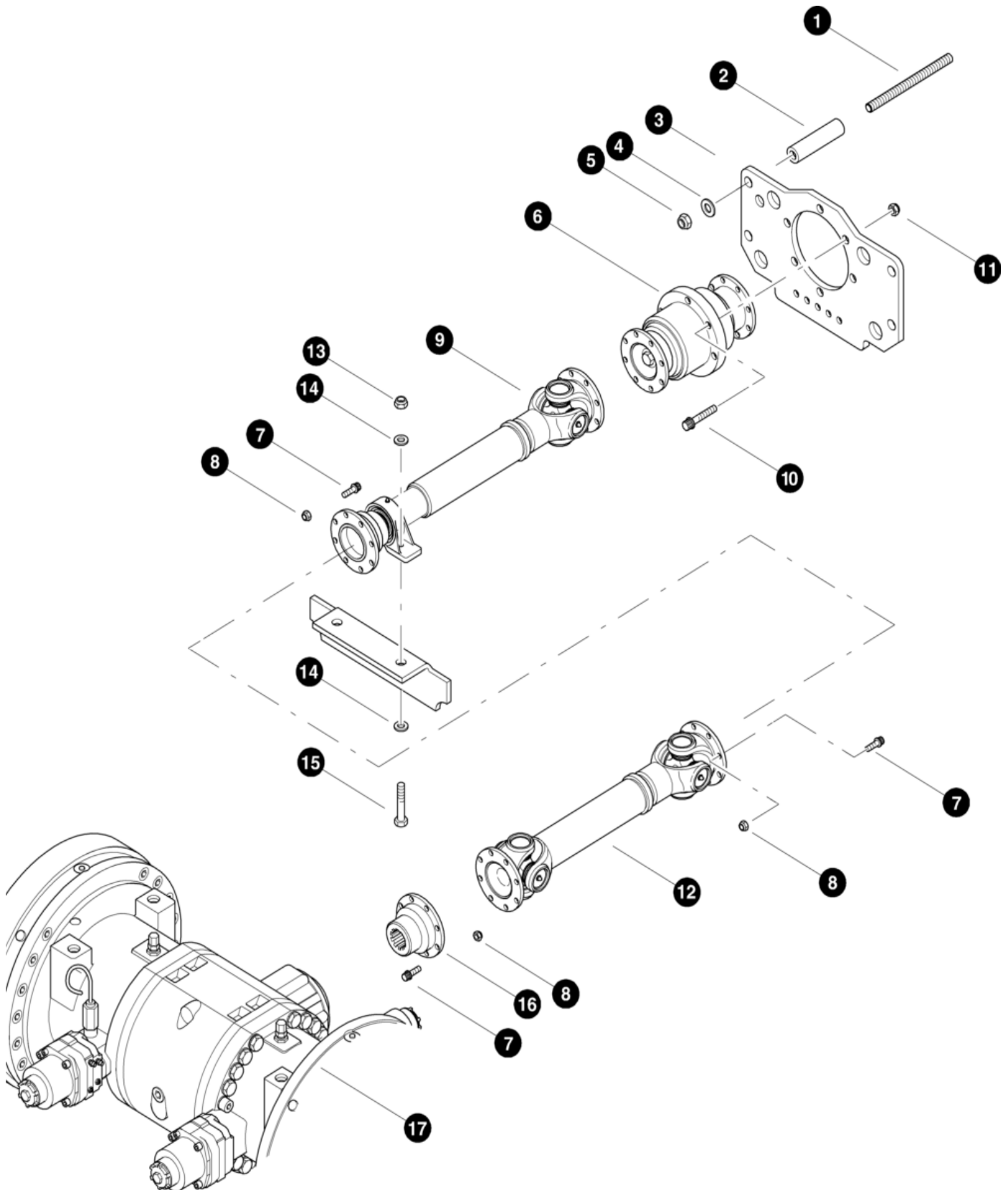
Parts T3411 04/08/2006
6.25

REAR AXLE INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		REAR FRAME WELDMENT	FR-1
2	23567-FR	4		BOLT - 30mm-3.5P x 220mm (Torque to 1100 ft.lbs. (1465 Nm))	
3	23990-FR	4		WASHER, SAE FLAT - 1.25" (EXTRA THICK)	
4	52485-FF	2		STUD - 1.25" - 7 X 27.50" (Torque to 1200 ft.lbs. (1600 Nm))	
5	22531-FR	4		WASHER, SAE flat - 1-1/4"	
6	23989-FF	4		NUT, lock - 1-1/4" (Torque to 1200 ft.lbs. (1600 Nm))	
7	REF.	4		WHEEL ASSEMBLY	AX-5
8	19361-FR	48		NUT, lug (Torque to 600 ft.lbs. (800 Nm))	
9	REF.	1		REAR AXLE.	AX-1
10	24003-FR	2		SPACER, axle spreader box	



See referenced page for component or assembly breakdown.



Parts T3412 04/28/06
12.50

DRIVE SHAFT INSTALLATION (NAF 2-SPEED SHAFTS) (STANDARD FRAME)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	26037-FR	4		STUD, 3/4 X 8.5 (see note #2)	
2	80721-FR	4		SPACER	
3	52486-FR	1		BRACKET, bearing mount	
4	15550-FR	4		WASHER, SAE flat 3/4	
5	10817-FR	4		NUT, lock - 3/4"	
6	25218-FR	1		IDLER, driveshaft (HD)	
7	50261-FR	24		BOLT, 12 point - 12mm-1.75P x 35mm (See Note #1 Below)	
8	50262-FR	24		NUT, lock - 12mm	
9	50791-FR	1	☐	DRIVE SHAFT (Gearbox to Center) (500793-61)	
	50466-FR	2		KIT, CROSS & BEARING	
	50467-FR	2		YOKE, FLANGE (90mm)	
	51594-FR	1		BEARING, PILLOW BLOCK	
10	50050-FR	6		BOLT, 12 point - 5/8" x 3" (See Note #1 Below)(Torque to 130 ft.lbs. (175 Nm))	
11	10816-FR	6		NUT, lock - 5/8"	
12	50791-FR	1	☐	DRIVE SHAFT (Gearbox to Center) (498347-61)	
	50466-FR	2		KIT, CROSS & BEARING	
	50467-FR	2		YOKE, FLANGE (90mm)	
13	10816-FR	2		NUT, LOCK - .625"	
14	23210-FR	4		WASHER, SAE FLAT - .625" (EXTRA THICK)	
15	15517-FR	2		BOLT - .625" X 2.5"	
16	23997-FR	1		YOKE, companion flange - AXLE	
17	REF.	1	☐	AXEL ASSY.....	AX



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:

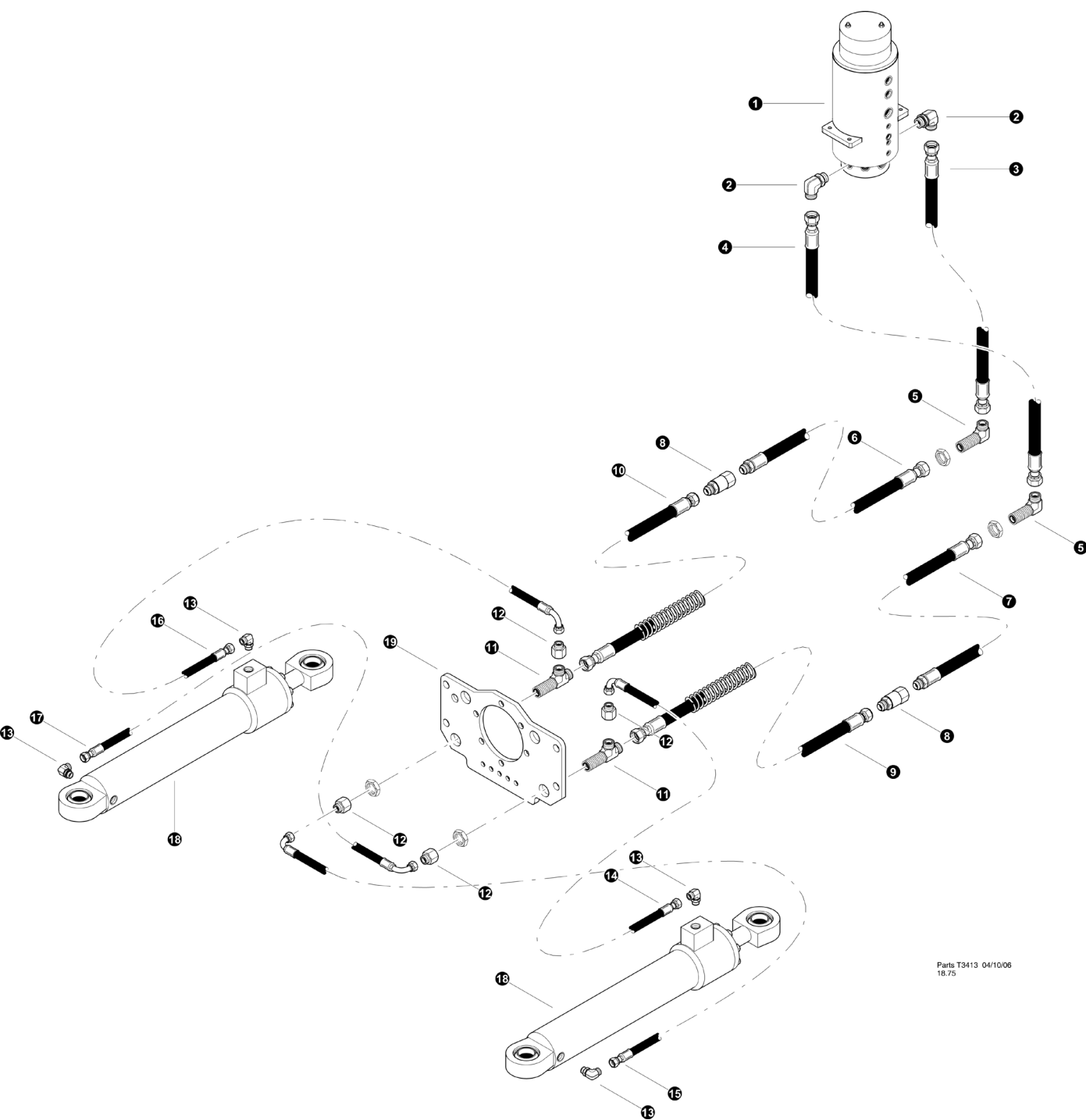
Use Loctite 262 (red) during installation.

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Section FR-3

830 / 840 REAR FRAME - Hydraulic Circuits



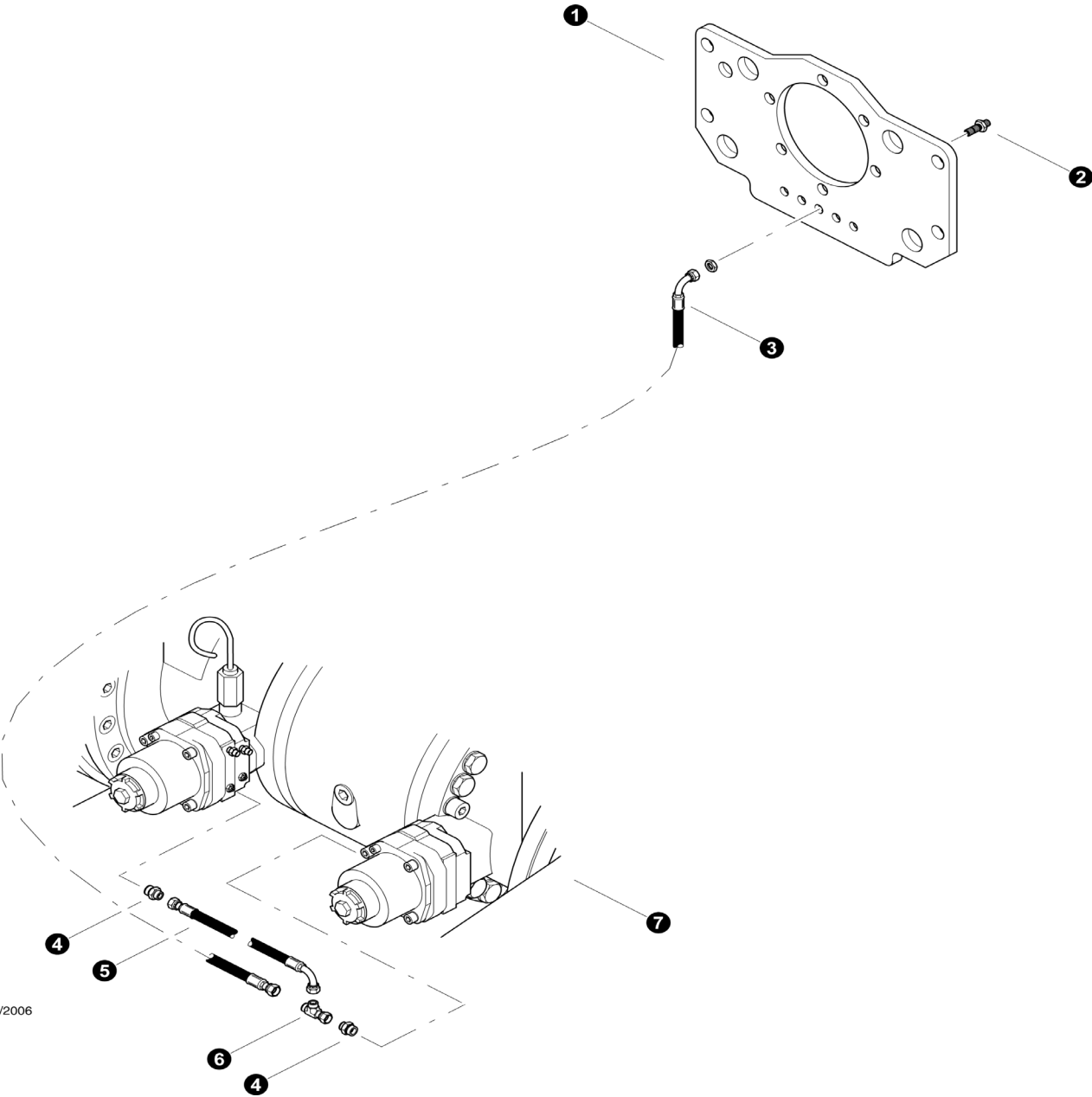
REAR FRAME HYDRAULICS

Steering Connections (Standard Front and Rear Frames)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ROTARY MANIFOLD.	UP-1
2	17688-FR	2		ELBOW, 90 - FF1868T-1212S	
3	-FR	1		HOSE ASSEMBLY - 4040-12-120S-1204 (Lower rotary manifold port #9 to Right bulkhead fitting)	
4	-FR	1		HOSE ASSEMBLY - 4034-12-120S-1204 (Lower rotary manifold port #10 to Left bulkhead fitting)	
5	24188-FR	2		ELBOW, 90 BULKHEAD - 855BH-TT-12	
6	-FR	1		HOSE ASSEMBLY - 4050-12-120S-12MJ (with Spring Protector)	
7	-FR	1		HOSE ASSEMBLY - 4050-12-120S-12MJ (with Spring Protector)	
8	18782-FR	2		SWIVEL, INLINE STR LS2406-1212	
9	-FR	1		HOSE ASSEMBLY - 4040-12-120S-12FJ (with Spring Protector)	
10	-FR	1		HOSE ASSEMBLY - 4040-12-120S-12FJ (with Spring Protector)	
11	20029-FR	2		TEE, BULKHEAD RUN - 12 WJJLO-WLNL-S	
12	18581-FR	1		CONNECTOR, REDUCER - ORS FF2281T-0812S	
13	16360-FR	4		ELBOW, 90° - FF1868T-0808S	
14	-FR	1		HOSE ASSEMBLY - 4046-08-080S-0809 (Right bulkhead tee to Right steer cylinder rod port)	
15	-FR	1		HOSE ASSEMBLY - 4044-08-080S-0809 (Left bulkhead tee to Right steer cylinder base port)	
16	-FR	1		HOSE ASSEMBLY - 4046-08-080S-0809 (Left bulkhead tee to left steer cylinder rod port)	
17	-FR	1		HOSE ASSEMBLY - 4044-08-080S-0809 (Right bulkhead tee to Left steer cylinder base port)	
18	REF.	2		STEER CYLINDERS.	FR-3
19	52486-FR	1		BRACKET, BRG MOUNT - DRIVELINE 830	



See referenced page for component or assembly breakdown.



Parts T3414 04/12/2006
18.75

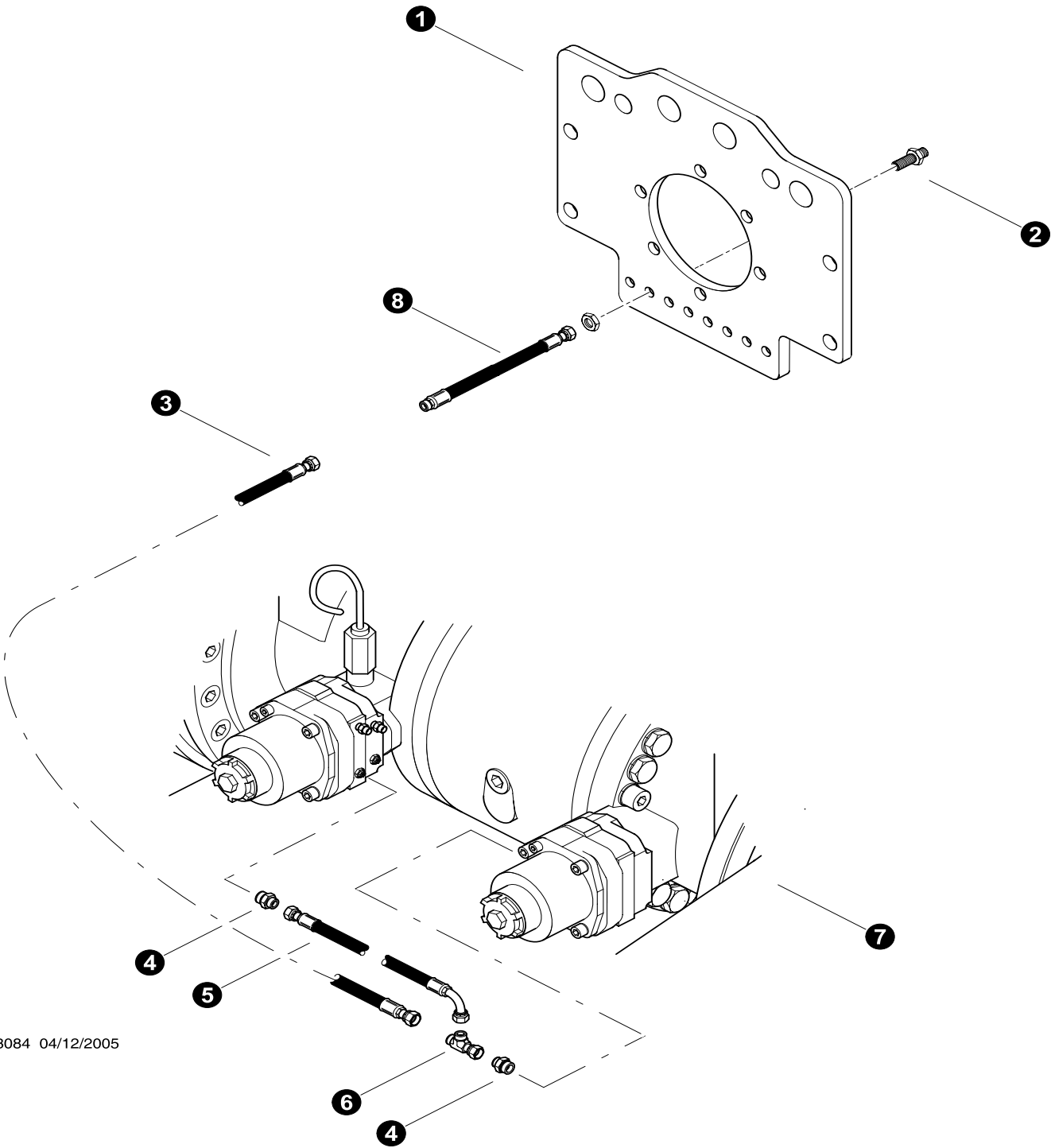
REAR FRAME HYDRAULICS

Lower Solenoid Manifold Connections - Parking Brake (Standard Front and Rear Frames)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	52486-FR	1	BRACKET, BRG MOUNT - DRIVELINE 830	
2	18582-FR	1	CONNECTOR, STR BULKHEAD - FF1994T-0404S	
3	-FR	1	HOSE ASSEMBLY - 2124-04-04OS-04O9 (Rear frame PB bulkhead to Rear Axle)	
4	19470-FR	2	CONNECTOR, STR 04-14m	
5	50607-FR	1	HOSE ASSEMBLY - 2009.5-04-04OS-04O9 (PB jumper hose on rear axel)	
6	15176-FR	2	TEE - 04	
7	REF.	1	 REAR AXLE ASSEMBLY.....	AX



See referenced page for component or assembly breakdown.



Parts T3084 04/12/2005
18.75

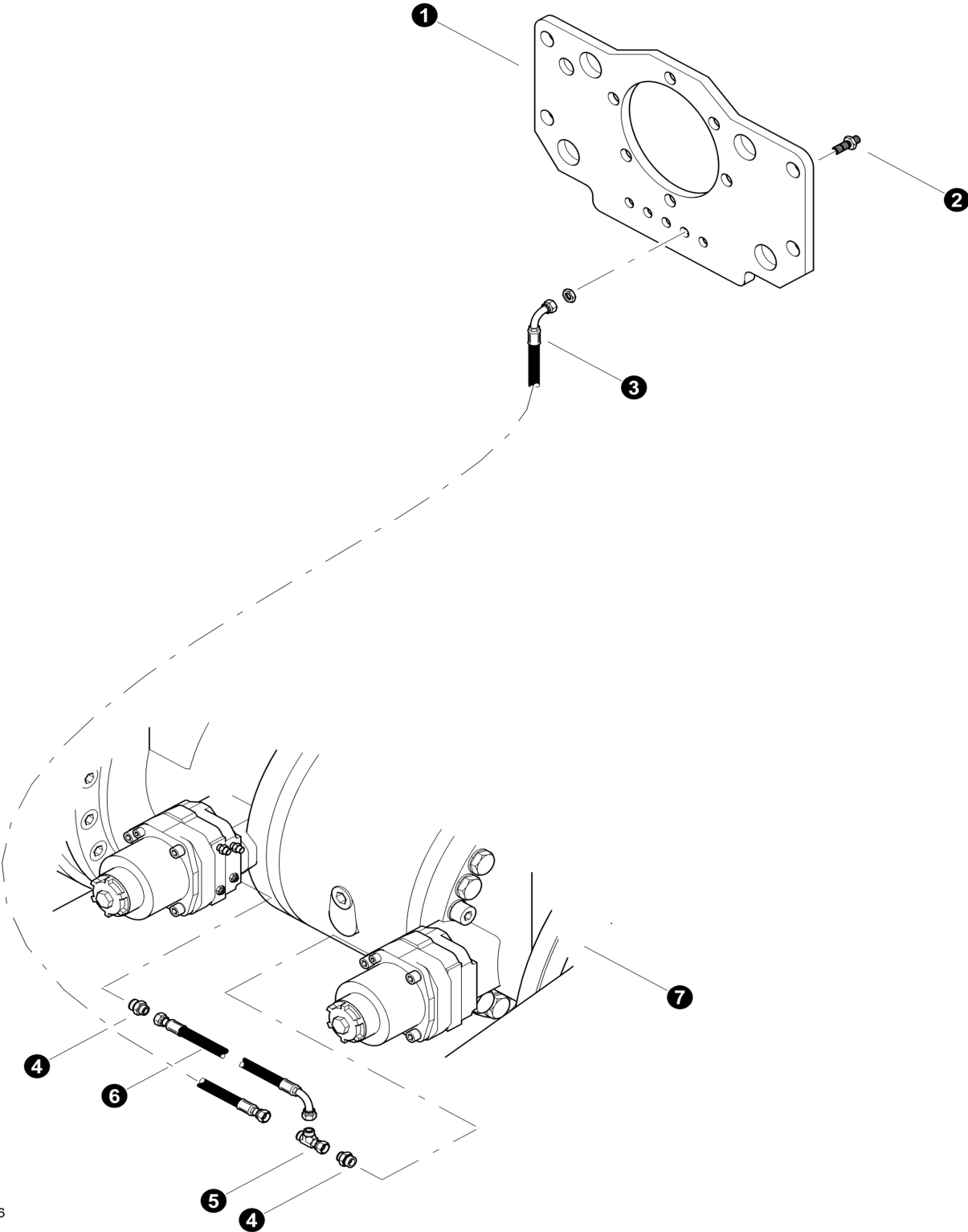
REAR FRAME HYDRAULICS

Lower Solenoid Manifold Connections - Parking Brake (Standard Front and 2 foot longer Rear Frame)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	42290-FR	1	BRACKET, bearing mount	
2	18582-FR	1	CONNECTOR, STR BULKHEAD - FF1994T-0404S	
3	-FR	1	HOSE ASSEMBLY - 2129-04-04OS-04OS (Rear frame PB bulkhead to Rear Axle)	
4	19470-FR	2	CONNECTOR, STR 04-14m	
5	50607-FR	1	HOSE ASSEMBLY - 2009.5-04-04OS-04O9 (PB jumper hose on rear axel)	
6	15176-FR	2	TEE - 04	
7	REF.	1	 REAR AXLE ASSEMBLY.....	AX
8	24886-FR	1	HOSE ASSEMBLY - 4024-04-04OS-04OM (PB 2' jumper hose)	



See referenced page for component or assembly breakdown.



Parts T3415 04/10/2006
18.75

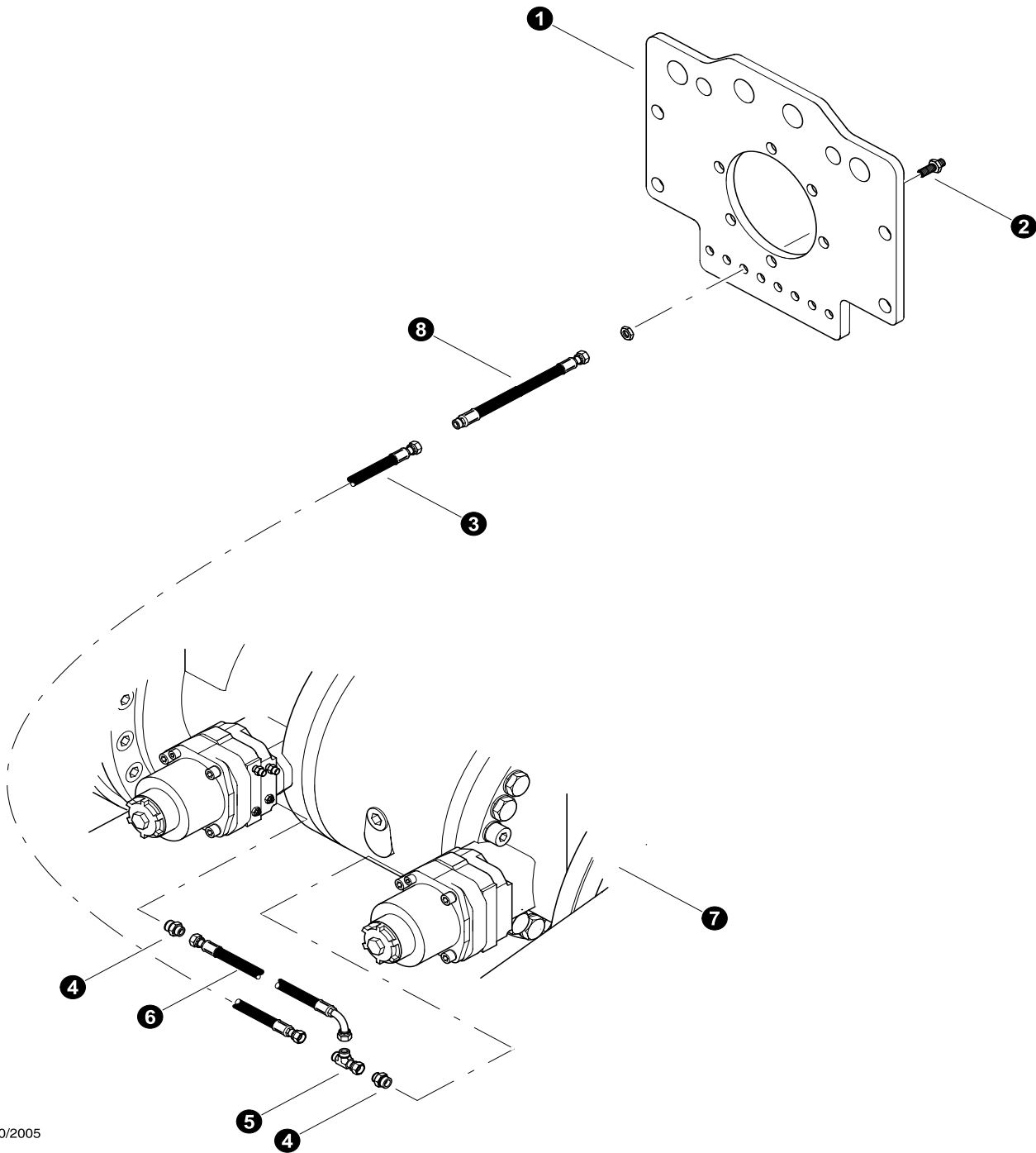
REAR FRAME HYDRAULICS

Lower Solenoid Manifold Connections - Travel Brake (Standard Front and Rear Frames)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	52486-FR	1	BRACKET, BRG MOUNT - DRIVELINE 830	
2	18582-FR	1	CONNECTOR, STR BULKHEAD - FF1994T-0404S	
3	-FR	1	HOSE ASSEMBLY - 2124-04-04OS-04O9 (Rear frame TB bulkhead to Rear Axle)	
4	19470-FR	2	CONNECTOR, STR 04-14m	
5	15176-FR	2	TEE - 04	
6	50607-FR	1	HOSE ASSEMBLY - 2009.5-04-04OS-04O9 (TB jumper hose on rear axel)	
7	REF.	1	 REAR AXLE ASSEMBLY..... AX	



See referenced page for component or assembly breakdown.



Parts T3085 04/10/2005
18.75

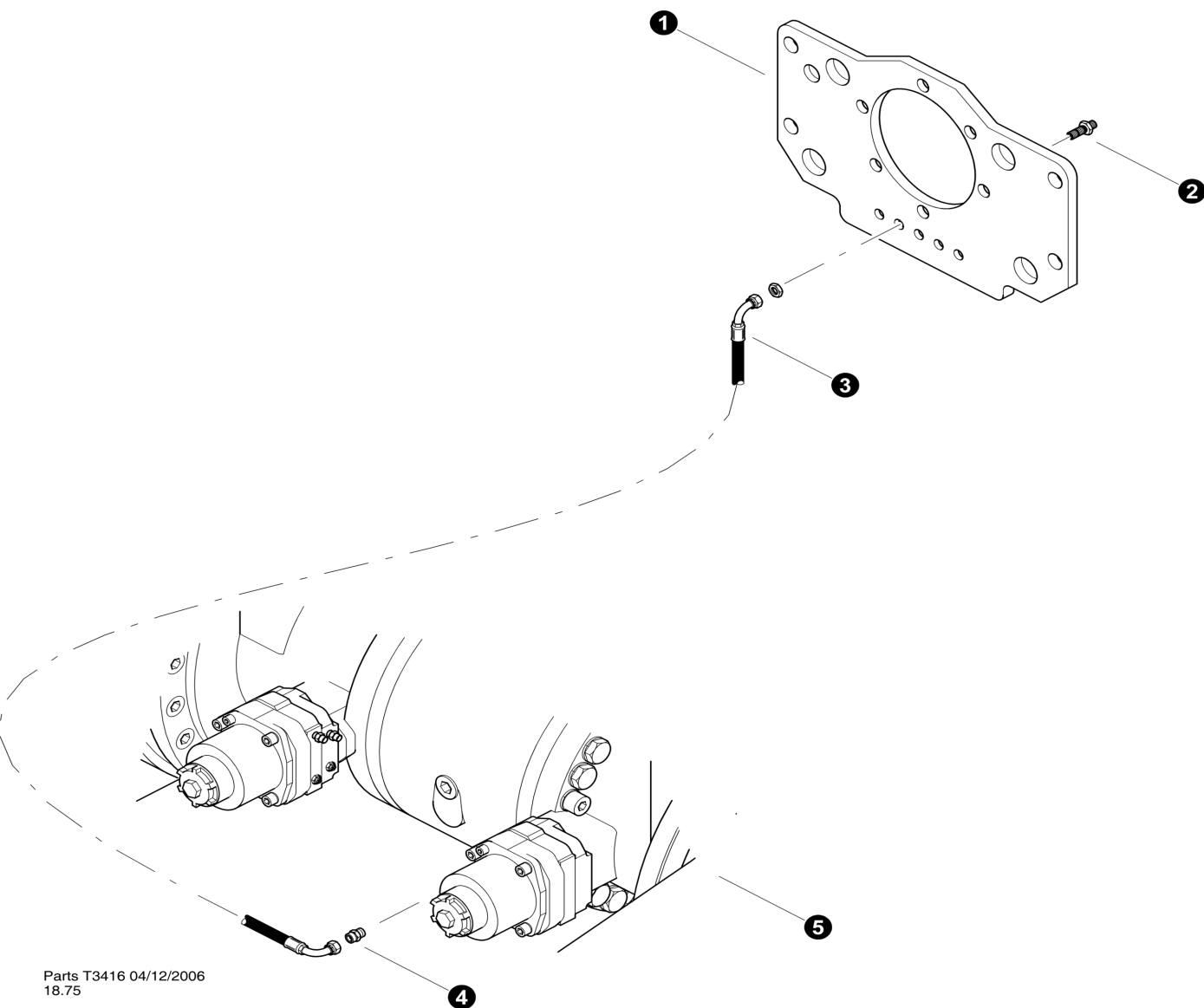
REAR FRAME HYDRAULICS

Lower Solenoid Manifold Connections - Travel Brake (Standard Front and 2 foot longer Rear Frame)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	42290-FR	1	BRACKET, bearing mount	
2	18582-FR	1	CONNECTOR, STR BULKHEAD - FF1994T-0404S	
3	-FR	1	HOSE ASSEMBLY - 2129-04-04OS-04OS (Rear frame TB bulkhead to Rear Axle)	
4	19470-FR	2	CONNECTOR, STR 04-14m	
5	50607-FR	1	HOSE ASSEMBLY - 2009.5-04-04OS-04O9 (TB jumper hose on rear axel)	
6	15176-FR	2	TEE - 04	
7	REF.	1	 REAR AXLE ASSEMBLY.....	AX
8	24886-FR	1	HOSE ASSEMBLY - 4024-04-04OS-04OM (PB 2' jumper hose)	



See referenced page for component or assembly breakdown.

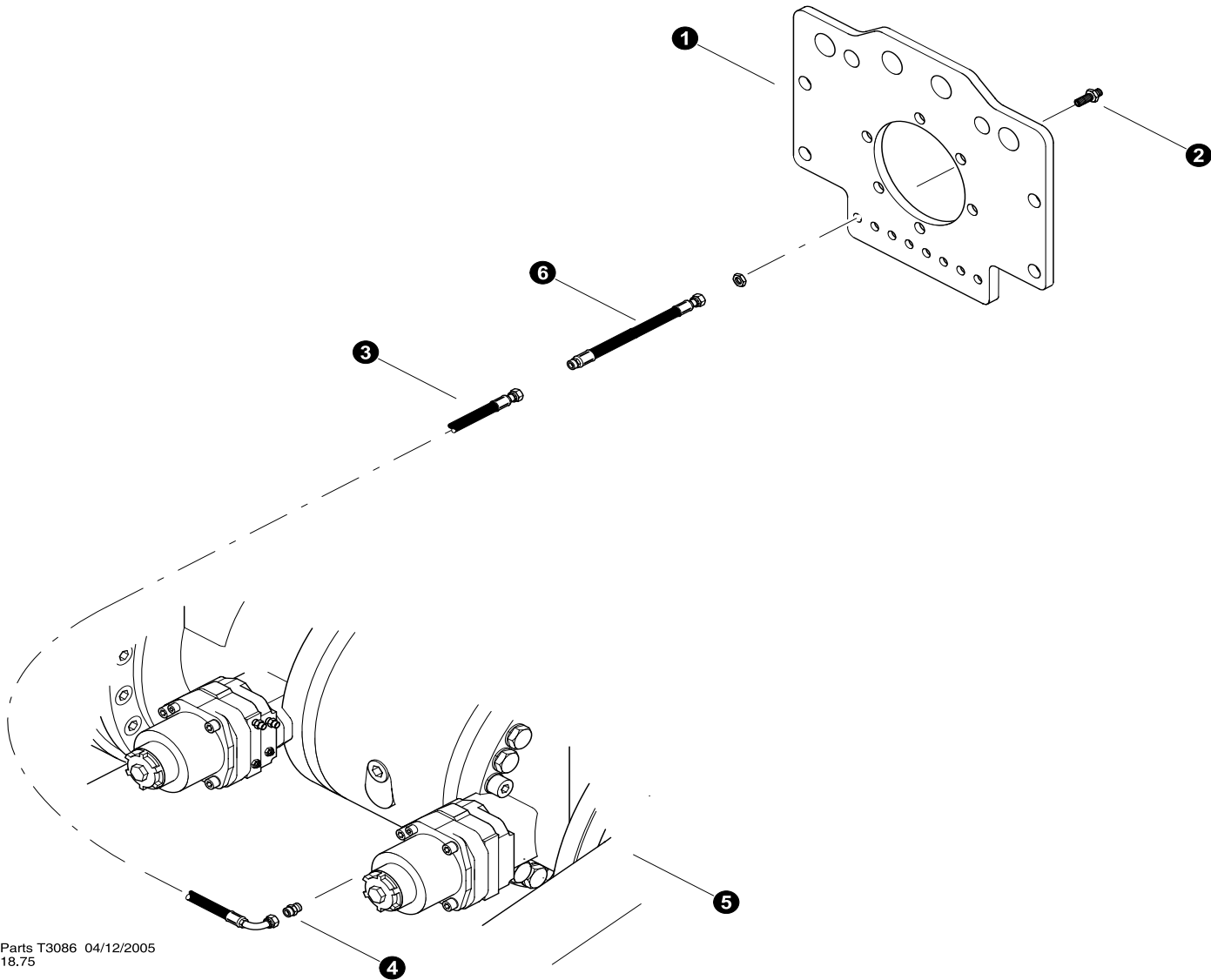


REAR FRAME HYDRAULICS

Lower Solenoid Manifold Connections - Differential Lock
(Standard Front and Rear Frames)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	52486-FR	1		BRACKET, BRG MOUNT - DRIVELINE 830	
2	18582-FR	1		CONNECTOR, STR BULKHEAD - FF1994T-0404S	
3	-FR	1		HOSE ASSEMBLY - 2128-04-04OS-04O9 (Rear frame TB bulkhead to Rear Axle)	
4	19470-FR	1		CONNECTOR, STR 04-14m	
5	REF.	1		REAR AXLE ASSEMBLY.....	AX

 See referenced page for component or assembly breakdown.

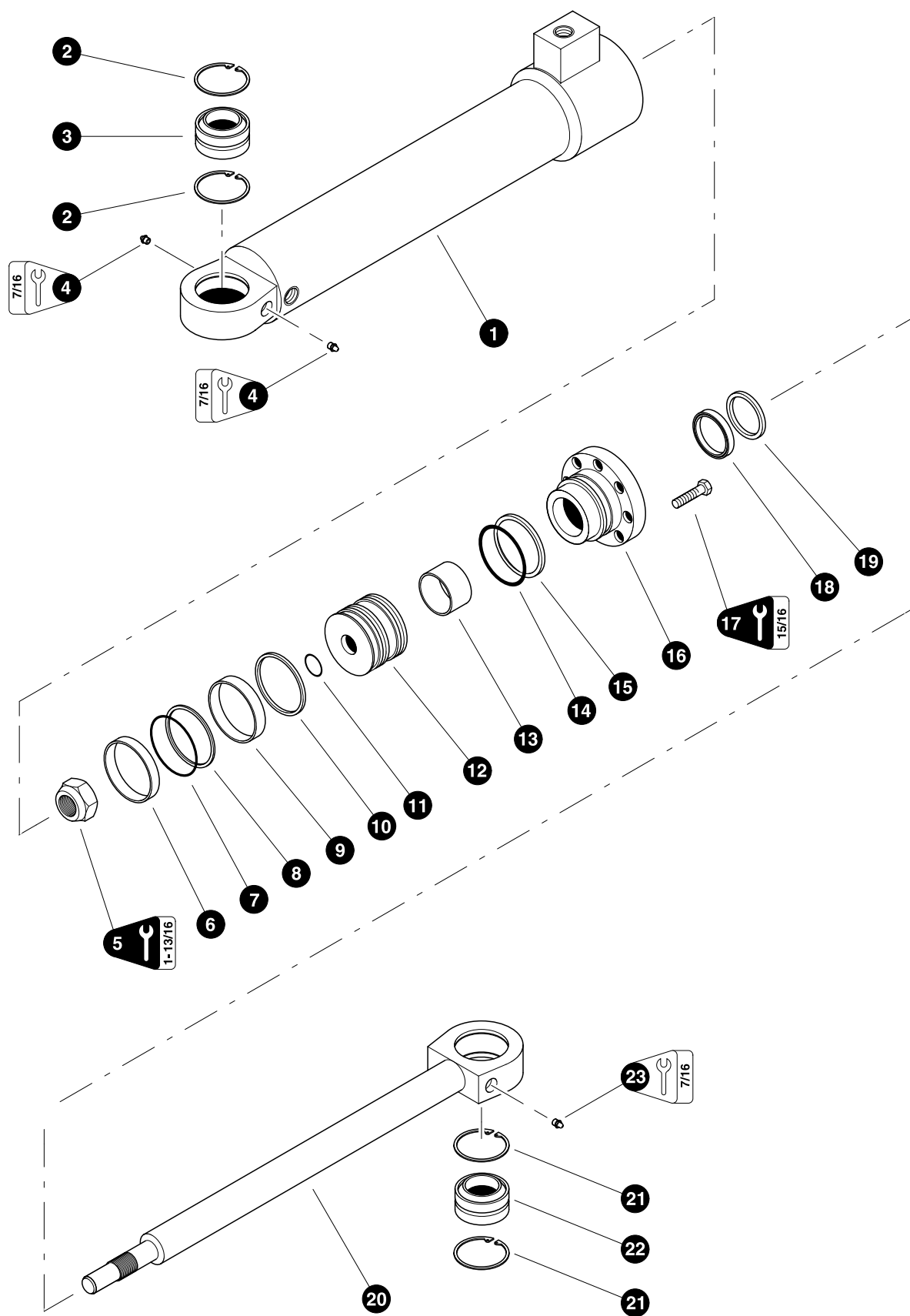


REAR FRAME HYDRAULICS

Lower Solenoid Manifold Connections - Differential Lock
(Standard Front and 2 foot longer Rear Frame)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	42290-FR	1	BRACKET, bearing mount	
2	18582-FR	1	CONNECTOR, STR BULKHEAD - FF1994T-0404S	
3	-FR	1	HOSE ASSEMBLY - 2129-04-04OS-04OS (Rear frame TB bulkhead to Rear Axle)	
4	19470-FR	1	CONNECTOR, STR 04-14m	
5	REF.	1	 REAR AXLE ASSEMBLY.....	AX
6	24886-FR	1	HOSE ASSEMBLY - 4024-04-04OS-04OM (PB 2' jumper hose) .	

 See referenced page for component or assembly breakdown.



00194 01/17/97
18.75

STEER CYLINDER (Jarp 2.25" Rod)

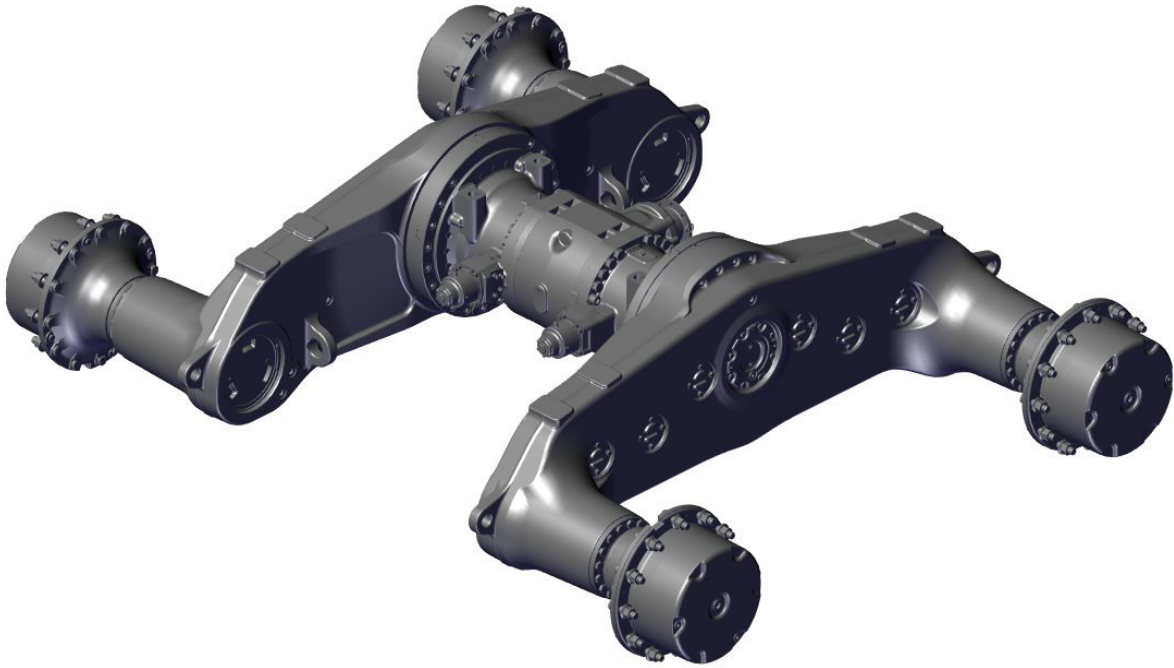
REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	51584-FR	2	☐	CYLINDER, STEER (2.25" ROD) - JARP	
1	51681-FR	1	☐	BARREL ASSEMBLY	
2	19916-FR	2		RING, snap	
3	19917-FR	1		BUSHING, spherical - 2"	
4	10704-FR	1		FITTING, straight grease - 1/8" pipe thread	
5	-FR	1		NUT, cylinder rod - 1-3/4" (Torque to 885 +/- 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	-FR	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	51685-FR	1		BEARING, rod	
17	15681-FR	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	51682-FR	1	☐	ROD ASSEMBLY	
21	19916-FR	2		RING, snap	
22	19917-FR	1		BUSHING, spherical - 2"	
23	10704-FR	1		FITTING, straight grease - 1/8" pipe thread	
-	51683-FR	1		KIT, seal repair - steer cylinder	

- ☐ Kit or Assembly - includes all items indented underneath.
 ⌘ Included in seal repair kit Part # 51683-FR.

[illegible]

Section AX-1

Axles, Gearboxes & Wheels - *Gearboxes (TIM 08)* *830 - Rear Axle*

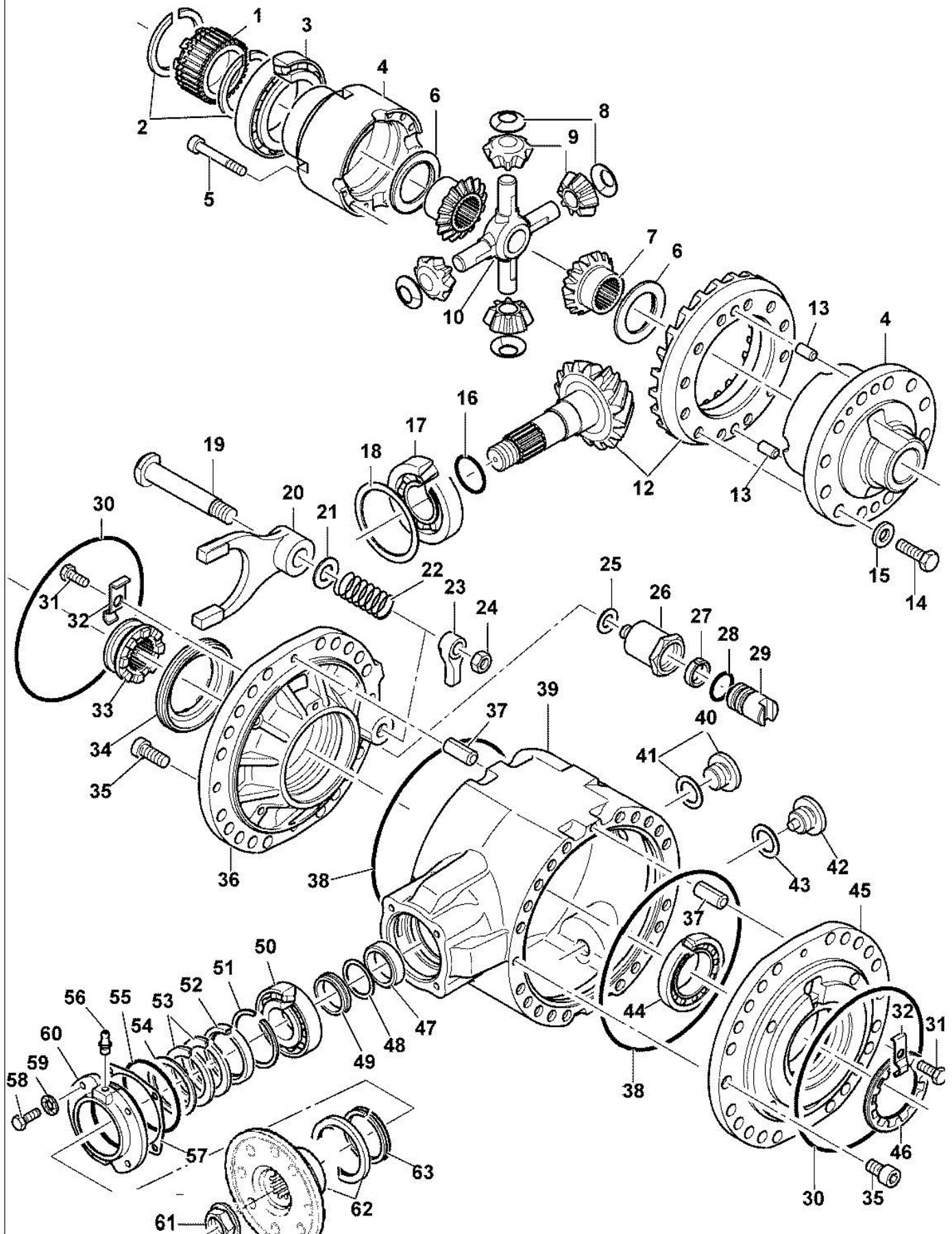


TIM 08 Axle Differential

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	23492	1	AXLE, TANDEM - TIM 08	

See referenced page for component or assembly breakdown.

Kit or Assembly - includes all items indented underneath.



TIM 08 Axle Differential

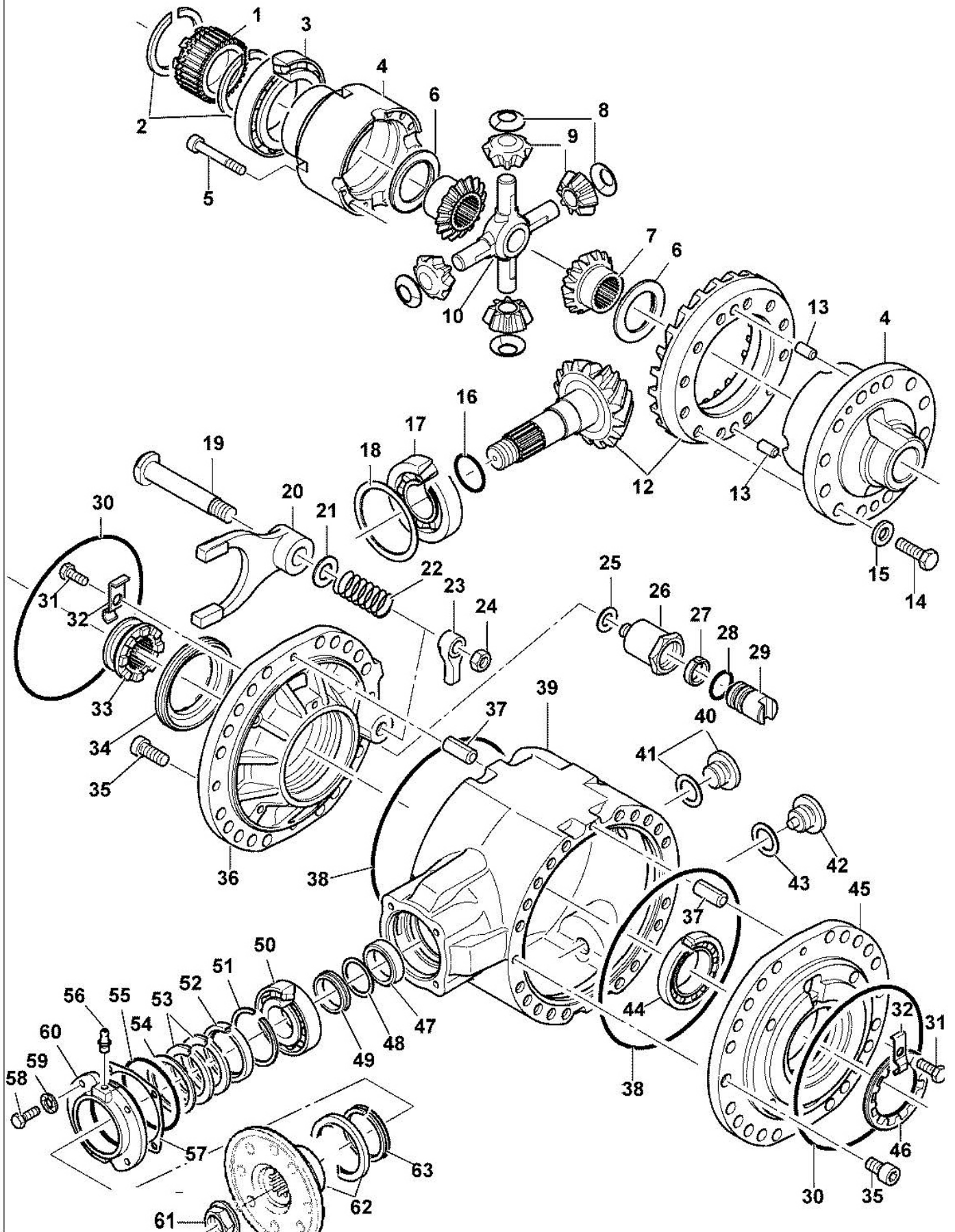
REF	PART #	QTY	DESCRIPTION	SEE PAGE
---	2401.324	1	Differential complete	
---	2219.131	1	Diff.-cage cpl-Pos. 1/2/4/5/6/7/8/9/10	
1	9813.103	1	Coupling sleeve	
2	1220.311	2	Snap ring	
3	1110.175	1	Tapered roller bearing	
4	2102.146	1	Differential cage	
5	1020.335	12	Allen screw	
6	7316.067	2	 Adjusting kit	
	7316.101	n/a	Thrust washer D95x1.50	
	7316.102	n/a	Thrust washer D95x1.70	
	7316.103	n/a	Thrust washer D95x2.00	
	7316.104	n/a	Thrust washer D95x2.20	
7	7513.046	2	Differential gear	
8	7518.022	4	Thrust washer	
9	7514.038	4	Compensating gear	
10	7515.028	1	Cross bolt	
11	---			
12	2101.315	1	Crown wheel/pinion	
13	1200.228	4	Dowel pin	
14	1510.558	16	Hexagon bolt	
15	7316.045	16	Washer	
16	1170.013	1	O-Ring	
17	1110.114	1	Tapered roller bearing	
18	7317.026	1	 Adjusting kit	
	7317.251	n/a	Adjusting washer D120xD145.5x2.25	
	7317.514	n/a	Adjusting washer D120xD145.5x2.30	
	7317.513	n/a	Adjusting washer D120xD145.5x2.35	
	7317.512	n/a	Adjusting washer D120xD145.5x2.40	
	7317.511	n/a	Adjusting washer D120xD145.5x2.45	
	7317.120	n/a	Adjusting washer D120xD145.5x2.50	
	7317.510	n/a	Adjusting washer D120xD145.5x2.55	
	7317.509	n/a	Adjusting washer D120xD145.5x2.60	
	7317.508	n/a	Adjusting washer D120xD145.5x2.65	
	7317.507	n/a	Adjusting washer D120xD145.5x2.70	
	7317.119	n/a	Adjusting washer D120xD145.5x2.75	
	7317.506	n/a	Adjusting washer D120xD145.5x2.80	
	7317.505	n/a	Adjusting washer D120xD145.5x2.85	
	7317.504	n/a	Adjusting washer D120xD145.5x2.90	
	7317.503	n/a	Adjusting washer D120xD145.5x2.95	
	7317.118	n/a	Adjusting washer D120xD145.5x3.00	
19	9816.132	1	Shifting rod	
20	9809.066	1	Shifting fork	
21	7317.023	1	 Adjusting kit	
	7317.111	n/a	Adjusting washer D20.4xD34.6x1.5	
	7317.112	n/a	Adjusting washer D20.4xD34.6x2.0	
	7317.113	n/a	Adjusting washer D20.4xD34.6x2.5	
	7317.114	n/a	Adjusting washer D20.4xD34.6x3.0	
22	7331.016	1	Compression spring	
23	9809.116	1	Shifting lever	
24	1060.003	1	Hexagon nut	
25	1170.010	1	O-Ring	
26	5263.061	1	Cylinder	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 08 Axle Differential Continued.....

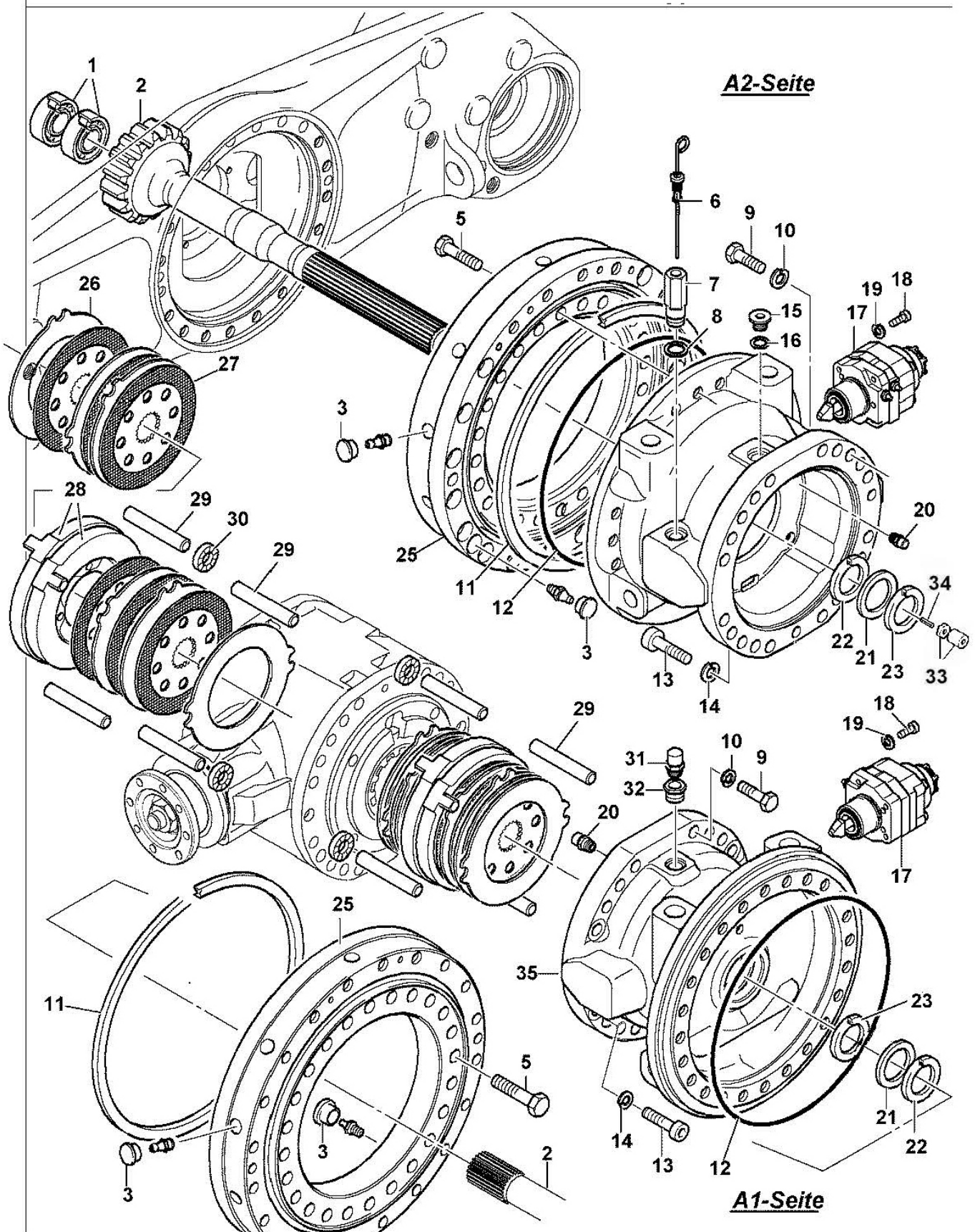
REF	PART #	QTY	DESCRIPTION	SEE PAGE
27	1180.734	1	Lip seal	
28	1180.811	1	Piston packing	
29	5252.100	1	Piston	
30	1170.716	2	O-Ring	
31	1010.129	2	Hexagon bolt	
32	9566.010	2	Locking plate	
33	9813.104	1	Shifting sleeve	
34	7329.012	1	Nut	
35	1020.212	4	Allen screw	
36	7527.140	1	Flange	
37	1200.481	2	Clamping sleeve	
38	1170.702	2	O-Ring	
39	7506.313	1	Differential housing	
40	1040.103	1	Screw plug	
41	1180.507	1	Seal ring	
42	9556.021	1	Screw plug	
43	1180.502	1	Seal ring	
44	1110.007	1	Tapered roller bearing	
45	7527.139	1	Flange	
46	7329.082	1	Nut M128x1.5	
47	7311.070	1	Spacer bushing	
48	7317.037	1	☐ Adjusting kit	
	7317.185	n/a	Adjusting washer D55xD68x0.96	
	7317.184	n/a	Adjusting washer D55xD68x1.00	
	7317.183	n/a	Adjusting washer D55xD68x1.04	
	7317.182	n/a	Adjusting washer D55xD68x1.08	
	7317.181	n/a	Adjusting washer D55xD68x1.12	
	7317.180	n/a	Adjusting washer D55xD68x1.16	
	7317.179	n/a	Adjusting washer D55xD68x1.20	
	7317.178	n/a	Adjusting washer D55xD68x1.24	
	7317.177	n/a	Adjusting washer D55xD68x1.28	
	7317.176	n/a	Adjusting washer D55xD68x1.32	
	7317.175	n/a	Adjusting washer D55xD68x1.36	
	7317.174	n/a	Adjusting washer D55xD68x1.40	
	7317.173	n/a	Adjusting washer D55xD68x1.44	
49	7311.071	1	Spacer bushing D70x12.26	
49	7311.062	1	Spacer bushing D70x11.3	
49	7311.063	1	Spacer bushing D70x11.78	
50	1110.186	1	Tapered roller bearing	
51	1220.932	1	Seeger snap ring	
52	7308.054	1	Radial seal	
53	7308.055	2	Seal ring	
54	7315.110	1	Washer	
55	1170.534	1	O-Ring	
56	1250.103	1	Tapered lube nipple	
57	7319.091	1	Gasket	
58	1010.201	4	Hexagon bolt	
59	1190.011	4	Lock washer	
60	7301.077	1	Cover	
61	7329.057	1	Nut	
62	7521.236	1	Cardan flange	
63	1180.125	1	V-Ring	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 08 Axle

Axle housing A1-Side

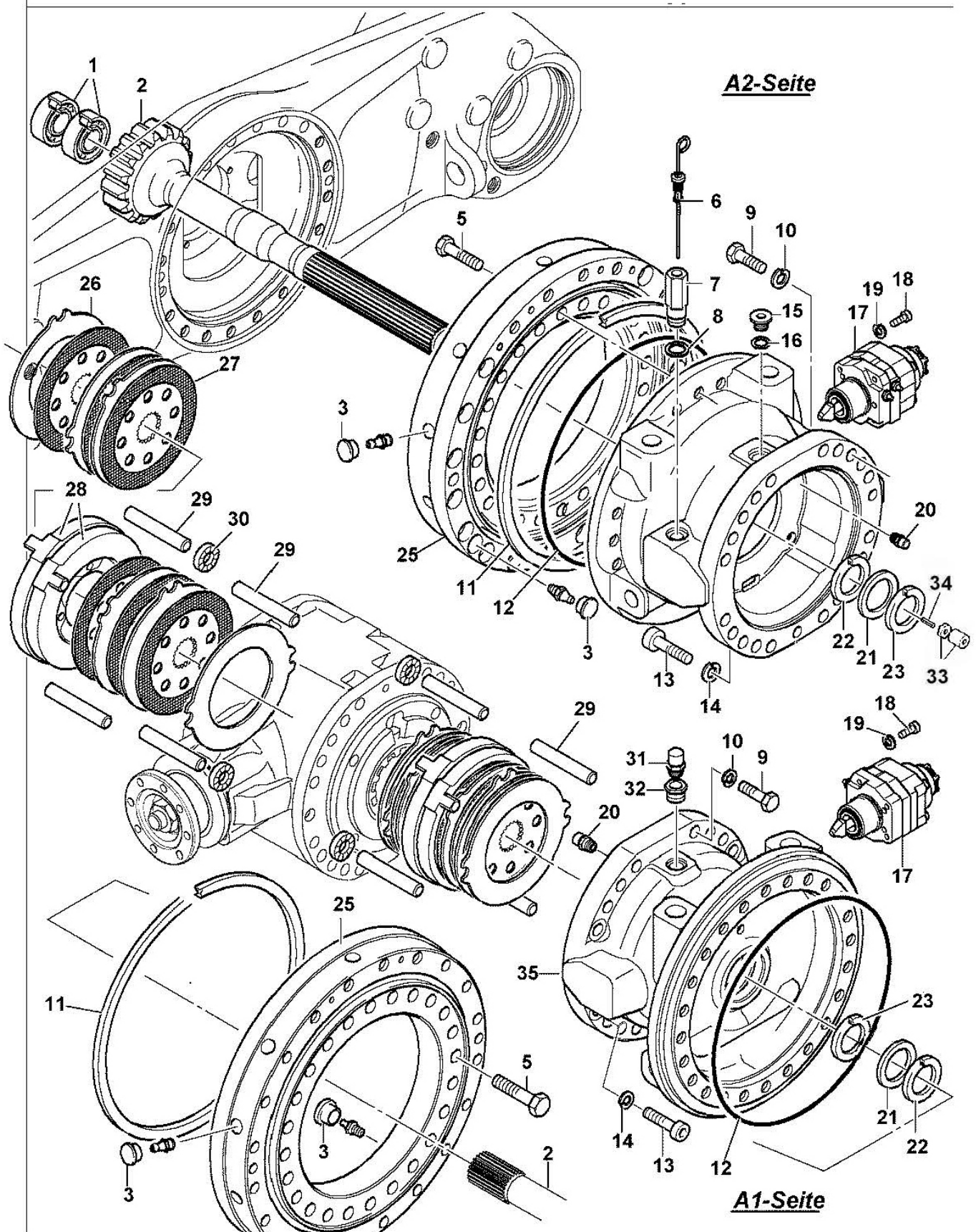
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	1130.067	2	Cylindrical roller bearing	
2	7818.175	1	Sun gear shaft	
3	1750.683	4	Plug	
4	---			
5	1010.669	24	Hexagon bolt	
6	---			
7	---			
8	---			
9	1010.668	16	Hexagon bolt	
10	1190.014	16	Detent edged ring	
11	7308.071	1	Scraper ring	
12	1170.726	1	O-Ring	
13	1020.620	4	Allen screw	
14	1190.014	4	Detent edged ring	
15	---			
16	---			
17	5350.090	1	Spring brake cylinder	
18	1020.260	3	Allen screw	
19	1190.031	3	Detent edged ring	
20	1250.002	1	Breather	
21	7315.187	1	Washer	
22	1160.236	1	Oil seal	
23	7308.063	1	Seal ring	
24	---			
25	7305.051	1	Slewing ring	
26	7344.036	6	Intermediate disk	
27	7345.057	6	Lined disk	
28	5504.002	1	Operating disk assembly	
29	7321.151	4	Pin	
30	1190.211	2	Toothed ring	
31	1250.015	1	Breather	
32	1750.705	1	Reducing nipple	
33	2108.101	1	Adjusting set	
	7321.186	1	Adjusting pin	
	7315.300	n/a	Washer 1.0 Thick	
	7315.301	n/a	Washer 1.5 Thick	
34	1200.480	1	Clamping sleeve	
35	7276.114	1	Axle housing - A1 Side	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 08 Axle

Axle housing A2-Side

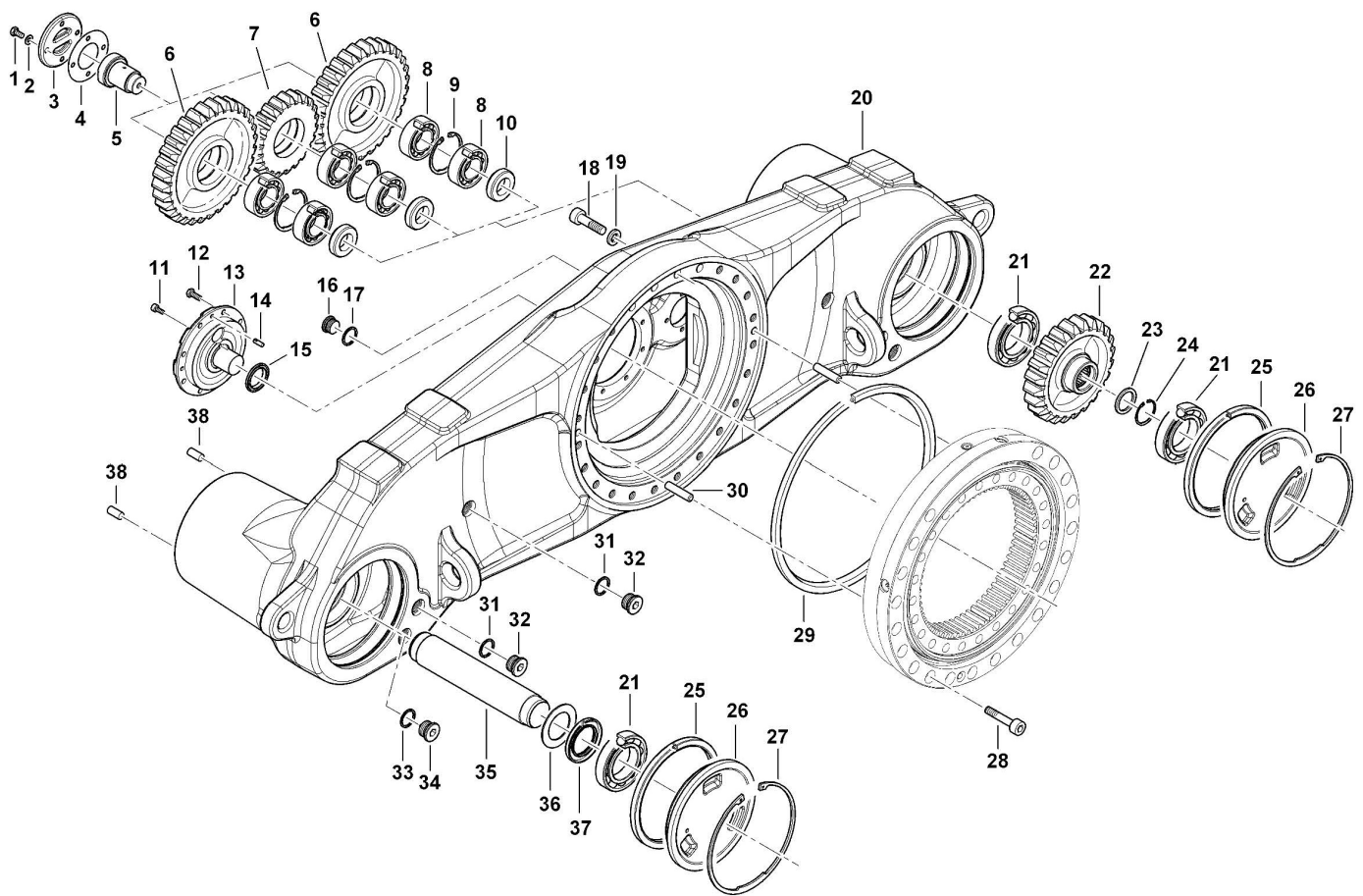
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	1130.067	2	Cylindrical roller bearing	
2	7818.175	1	Sun gear shaft	
3	1750.683	4	Plug	
4	---			
5	1010.669	24	Hexagon bolt	
6	7325.026	1	Oil dip stick	
7	7322.074	1	Threaded stud	
8	1180.541	1	Seal ring	
9	1010.668	16	Hexagon bolt	
10	1190.014	16	Detent edged ring	
11	7308.071	1	Scraper ring	
12	1170.726	1	O-Ring	
13	1020.620	4	Allen screw	
14	1190.014	4	Detent edged ring	
15	1040.151	1	Screw plug	
16	1180.541	1	Seal ring	
17	5350.090	1	Spring brake cylinder	
18	1020.260	3	Allen screw	
19	1190.031	3	Detent edged ring	
20	1250.002	1	Breather	
21	7315.187	1	Washer	
22	1160.236	1	Oil seal	
23	7308.063	1	Seal ring	
24	7276.115	1	Axle housing - A2 Side	
25	7305.051	1	Slewing ring	
26	7344.036	6	Intermediate disk	
27	7345.057	6	Lined disk	
28	5504.002	1	Operating disk assembly	
29	7321.151	4	Pin	
30	1190.211	2	Toothed ring	
31	-			
32	1750.705	1	Reducing nipple	
33	2108.101	1	Adjusting set	
	7321.186	1	Adjusting pin	
	7315.300	n/a	Washer 1.0 Thick	
	7315.301	n/a	Washer 1.5 Thick	
34	1200.480	1	Clamping sleeve	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 08 Axle Bogie Housing

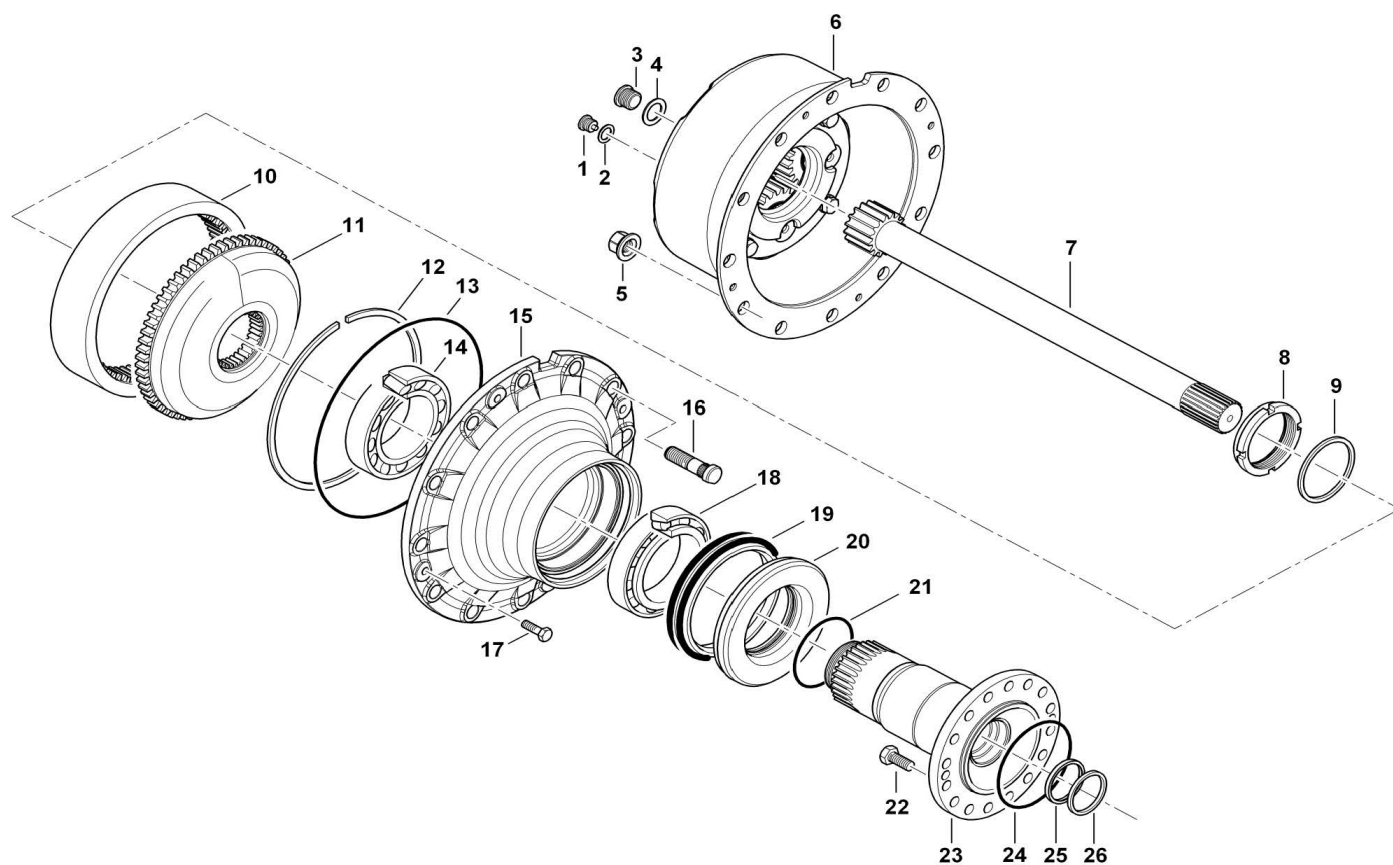
REF	PART #	QTY	DESCRIPTION	SEE PAGE
---	2405.178		Bogie housing Complete (two per axle)	
1	1010.233	24	Hexagon bolt	
2	7316.048	24	Washer	
3	7302.011	6	Cover	
4	7319.161	6	Gasket	
5	7321.131	6	Pin	
6	9804.356	4	Spur gear	
7	9804.313	2	Spur gear	
8	1130.057	12	Cylindrical roller bearing	
9	1220.702	6	Seeger circlip ring	
10	7311.089	6	Spacer bushing	
11	1020.113	2	Allen screw	
12	1010.234	8	Hexagon bolt	
13	7321.120	1	Bearing pin	
14	1200.309	1	Grooved dowel pin	
15	1180.841	1	Shaft seal	
16	1040.103	1	Screw plug	
17	1180.507	1	Seal ring	
18	1020.618	4	Allen screw	
19	7316.044	4	Washer	
20	7277.126	1	Bogie housing	
21	1120.107	4	Deep groove ball bearing	
22	9804.352	2	Spur gear	
23	1210.110	2	Seeger support washer	
24	1220.714	2	Seeger circlip ring	
25	7308.051	2	Seal ring	
26	7302.082	2	Cover	
27	1220.837	2	Seeger circlip ring	
28	1020.618	20	Allen screw	
29	7308.040	1	Seal ring	
30	1200.206	2	Dowel pin	
31	1180.507	4	Seal ring	
32	1040.103	4	Screw plug	
33	1180.507	2	Seal ring	
34	7323.013	2	Screw plug	
35	7343.030	2	Tube	
36	7315.106	2	Washer	
37	1160.275	2	Oil seal	
38	1200.286	4	Dowel pin	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 08 Axle Wheel End

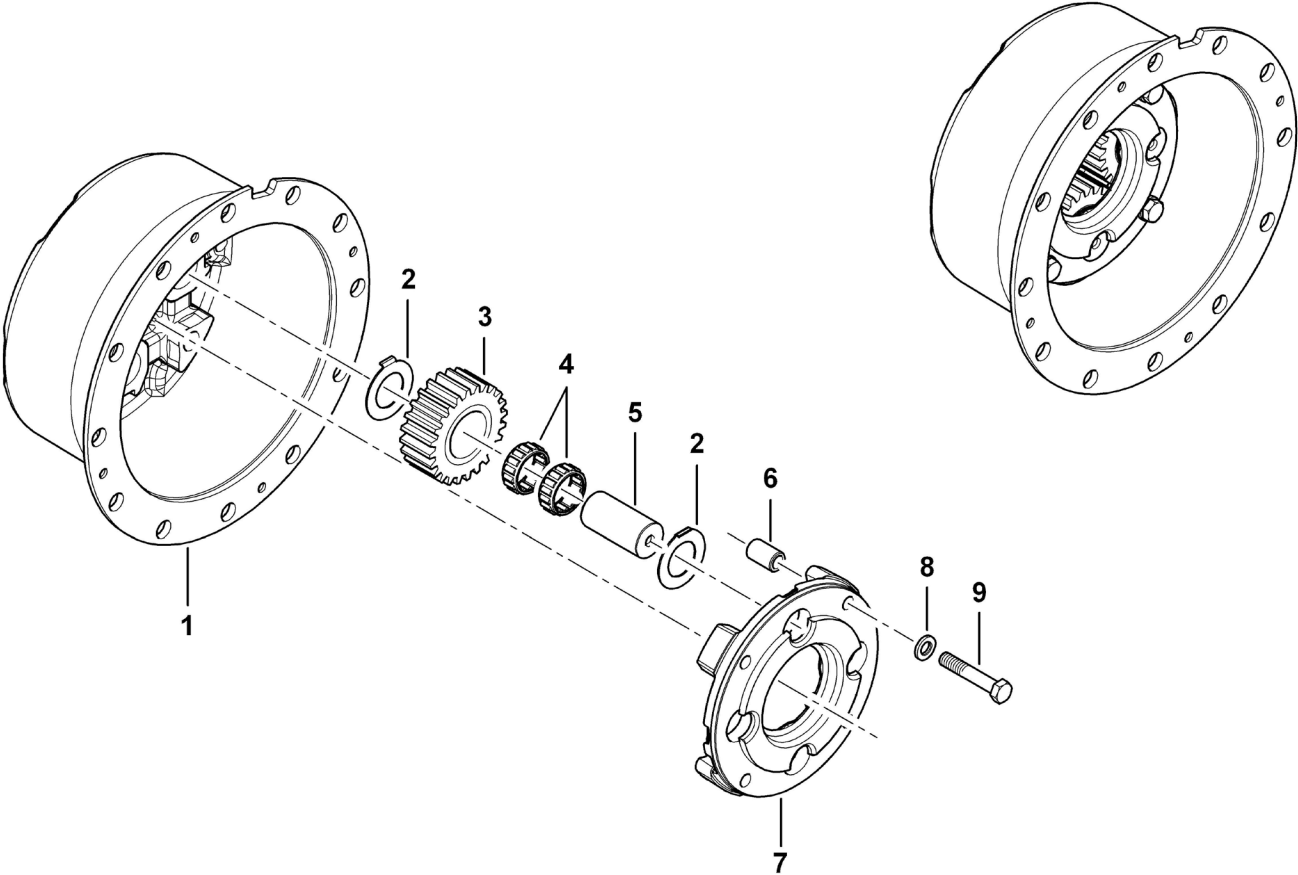
REF	PART #	QTY	DESCRIPTION	SEE PAGE
---	2402.157	4	Wheel end complete	
1	9556.021	2	Screw plug	
2	1180.502	2	Seal ring	
3	7323.016	1	Screw plug	
4	2108.017	1	☐ Shim kit	
	1210.296	n/a	Seeger adjusting washer 30x42x0.5	
	1210.295	n/a	Seeger adjusting washer 30x42x1.0	
	1210.113	n/a	Seeger support washer	
5	1060.408	12	Wheel nut with rotating washer	
6	2218.014	1	Planetary gear drive COMPLETE	
7	7818.086	1	Sun gear shaft	
8	7329.073	1	Nut M85x2	
9	7317.047	1	☐ Adjusting kit	
	7317.199	n/a	Adjusting washer D86xD105.5x2.500	
	7317.200	n/a	Adjusting washer D86xD105.5x2.375	
	7317.201	n/a	Adjusting washer D86xD105.5x2.250	
	7317.202	n/a	Adjusting washer D86xD105.5x2.125	
	7317.203	n/a	Adjusting washer D86xD105.5x2.000	
	7317.204	n/a	Adjusting washer D86xD105.5x1.875	
	7317.205	n/a	Adjusting washer D86xD105.5x1.750	
	7317.206	n/a	Adjusting washer D86xD105.5x1.625	
	7317.207	n/a	Adjusting washer D86xD105.5x1.500	
	7317.208	n/a	Adjusting washer D86xD105.5x1.375	
10	7801.042	1	Ring gear	
11	7804.044	1	Ring gear carrier	
12	1220.913	1	Seeger snap ring	
13	1170.755	1	O-Ring	
14	1110.221	1	Tapered roller bearing	
15	7828.143	1	Wheel hub	
16	7133.018	12	Wheel bolt	
17	1110.222	1	Tapered roller bearing	
18	7322.088	4	Hexagon bolt	
19	1180.325	1	Face seal	
20	7306.032	1	Spindle ring	
21	1170.547	1	O-Ring	
22	7322.069	16	Hexagon bolt	
23	7814.182	1	Spindle	
24	1170.553	1	O-Ring	
25	1160.244	1	Oil seal	
26	7315.107	1	Washer	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 08 Axle

Planetary Assembly

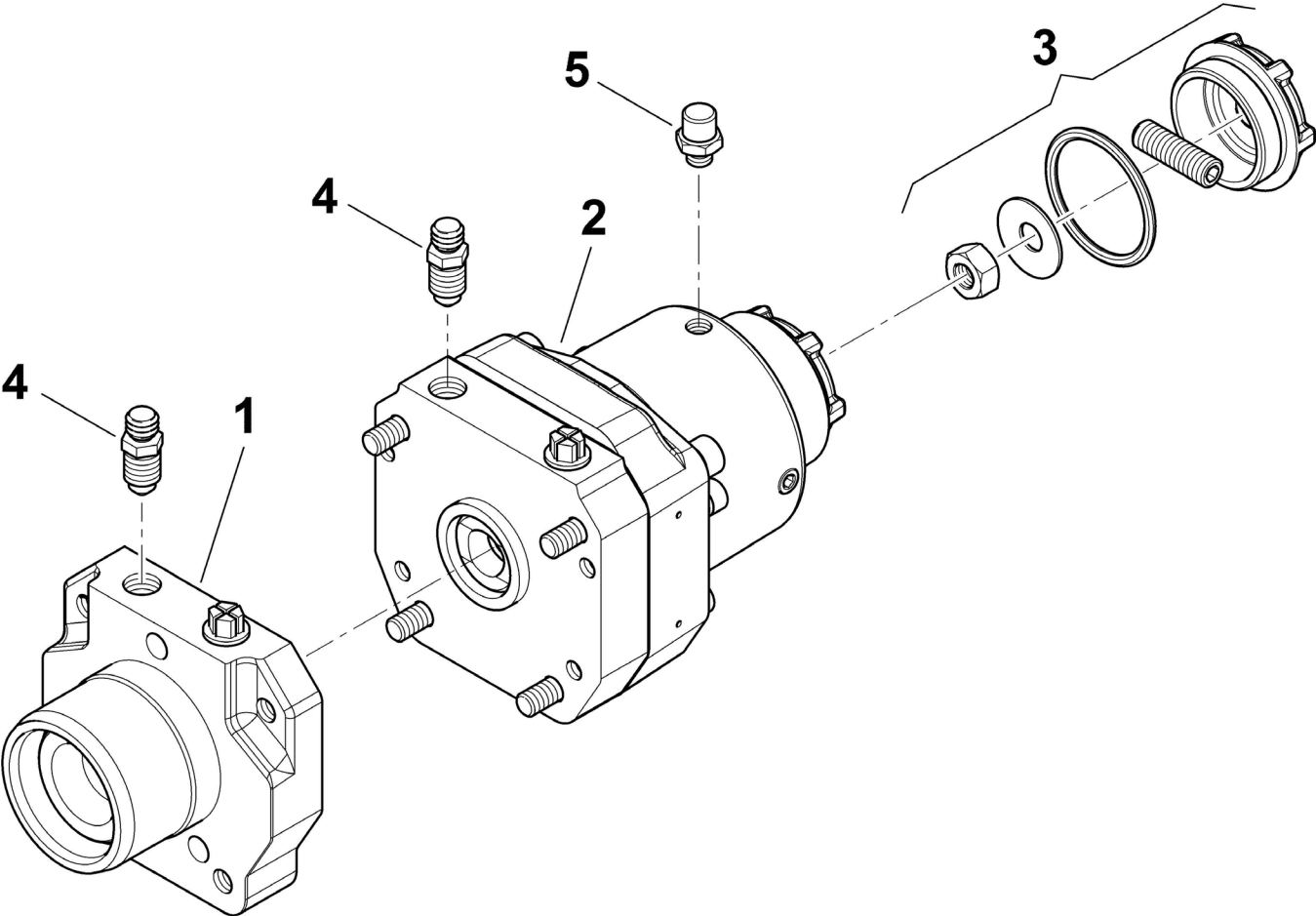
REF	PART #	QTY	DESCRIPTION	SEE PAGE
---	2218.014	1	Planetary gear drive	
1	7821.271	1	Planet carrier	
2	9633.010	8	Thrust washer	
3	7806.060	4	Planet gear	
4	7305.071	4	Two-row roller bearing	
5	7807.056	4	Planetary pin	
6	7313.018	4	Shear pin	
7	7821.179	1	Planet carrier	
8	7316.045	4	Washer	
9	1010.536	4	Hexagon bolt	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 08 Axle Brake Cylinder

REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	52746-AX		☐	Spring loaded cyl. complete	
1	5350.097	1		Brake cylinder (lower part)	
2	5350.100	1		Spring brake (upper part)	
3	2208.004	1		Park brake release kit	
4	1250.598	2		Breather valve	
5	1250.002	1		Breather	
-	53969-AX			Seal Kit Brake Cylinder	



See referenced page for component or assembly breakdown.

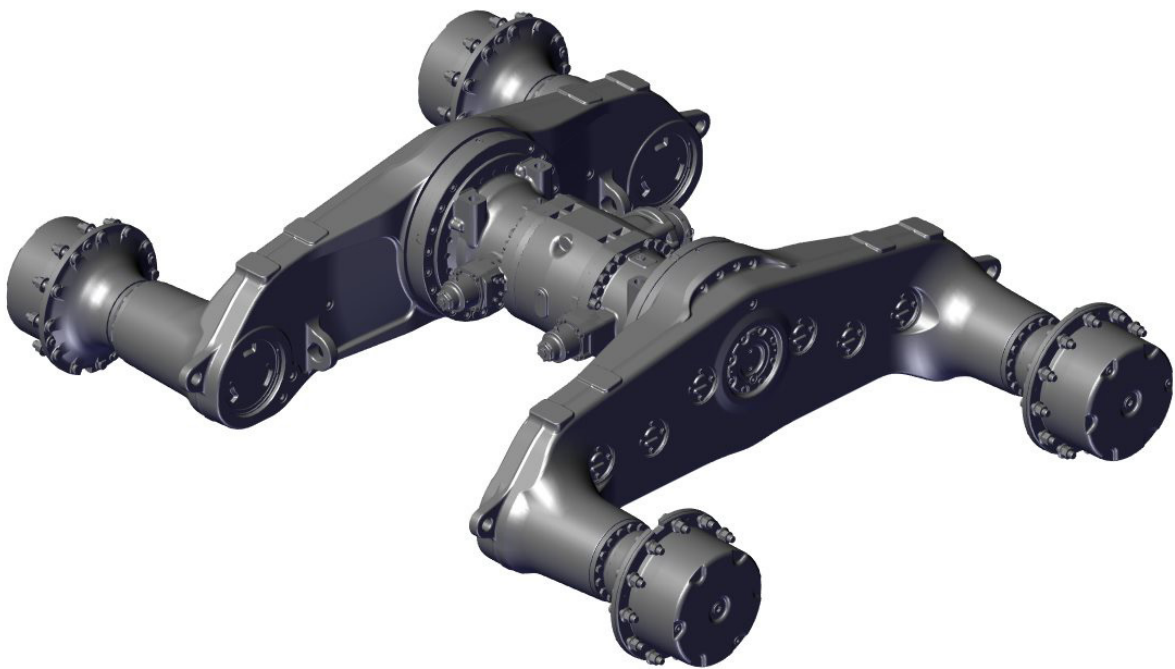


Kit or Assembly - includes all items indented underneath.

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

Section AX-2

Axles, Gearboxes & Wheels - *Gearboxes (TIM 17)* *630 & 830 - Front Axle*

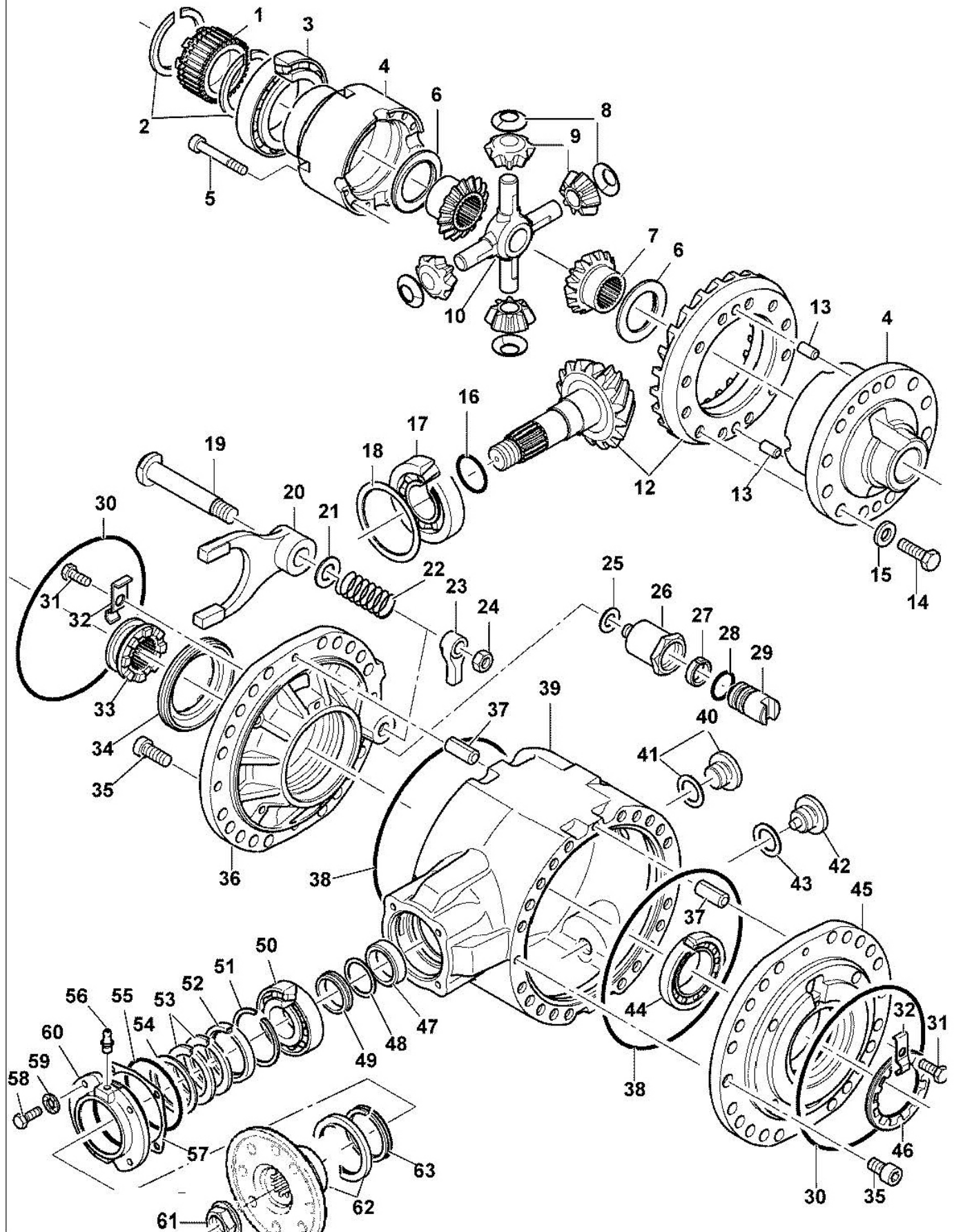


TIM 17 Axle Differential

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	51139	1	AXLE, TANDEM - TIM 17	

See referenced page for component or assembly breakdown.

Kit or Assembly - includes all items indented underneath.



TIM 17 Axle Differential

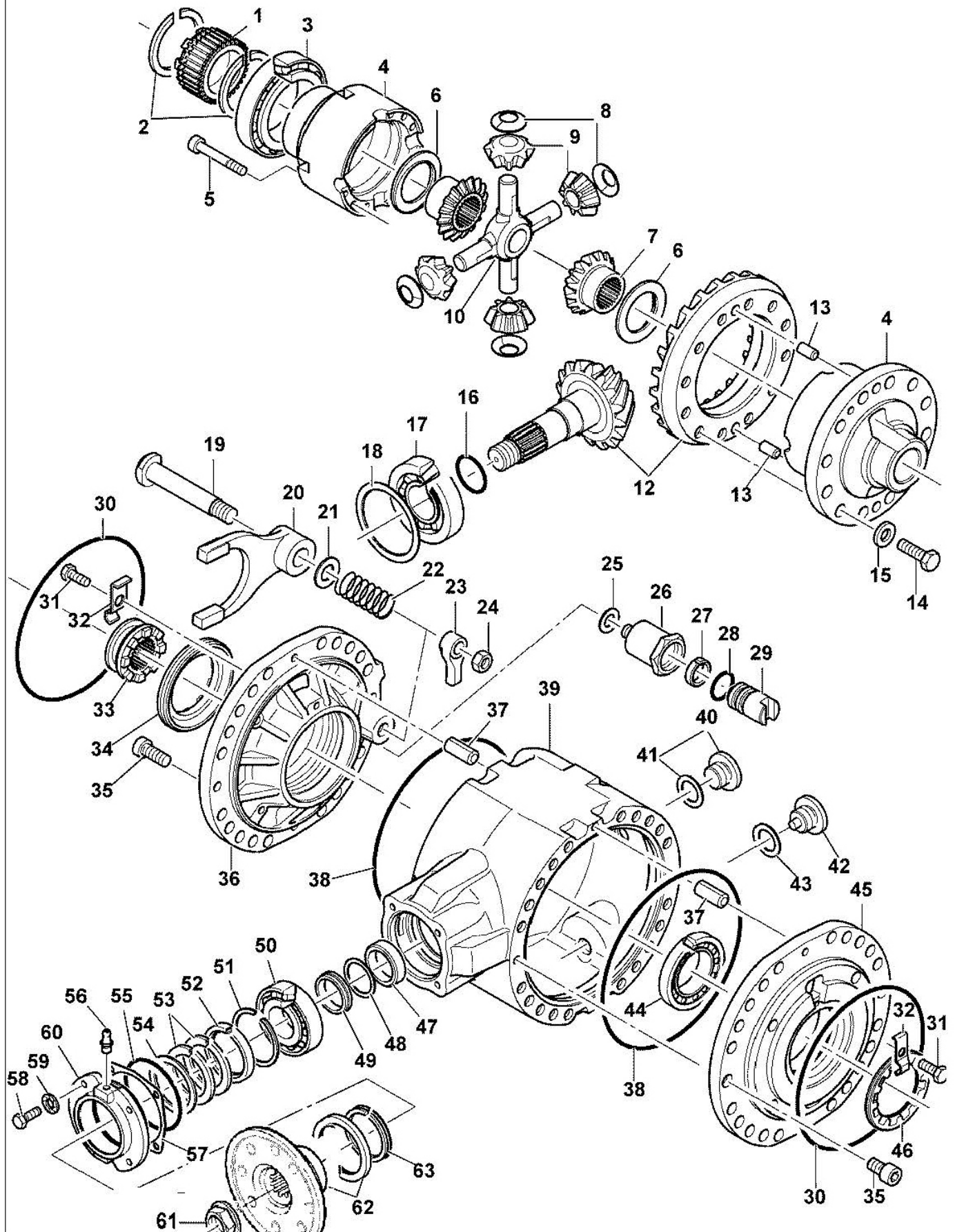
REF	PART #	QTY		DESCRIPTION	SEE PAGE
---	2401.418	1	☐	Differential Complete	
---	2219.131	1		Diff.-cage cpl- Pos. 1/2/4/5/6/7/8/9/10	
1	9813.103	1		Coupling sleeve	
2	1220.311	2		Snap ring	
3	1110.175	1		Tapered roller bearing	
4	2102.146	1		Differential cage	
5	1020.335	12		Allen screw	
6	7316.067	2	☐	Adjusting kit	
	7316.101	n/a		Thrust washer D95x1.50	
	7316.102	n/a		Thrust washer D95x1.70	
	7316.103	n/a		Thrust washer D95x2.00	
	7316.104	n/a		Thrust washer D95x2.20	
7	7513.046	2		Differential gear	
8	7518.022	4		Thrust washer	
9	7514.038	4		Compensating gear	
10	7515.028	1		Cross bolt	
11	---				
12	2101.336	1		Crown wheel/pinion	
13	1200.228	4		Dowel pin	
14	1510.558	16		Hexagon boltM16x1.5x40	
15	7316.045	16		Washer	
16	1170.013	1		O-Ring	
17	1110.114	1		Tapered roller bearing	
18	7317.026	1	☐	Adjusting kit	
	7317.251	n/a		Adjusting washer D120xD145.5x2.25	
	7317.514	n/a		Adjusting washer D120xD145.5x2.30	
	7317.513	n/a		Adjusting washer D120xD145.5x2.35	
	7317.512	n/a		Adjusting washer D120xD145.5x2.40	
	7317.511	n/a		Adjusting washer D120xD145.5x2.45	
	7317.120	n/a		Adjusting washer D120xD145.5x2.50	
	7317.510	n/a		Adjusting washer D120xD145.5x2.55	
	7317.509	n/a		Adjusting washer D120xD145.5x2.60	
	7317.508	n/a		Adjusting washer D120xD145.5x2.65	
	7317.507	n/a		Adjusting washer D120xD145.5x2.70	
	7317.119	n/a		Adjusting washer D120xD145.5x2.75	
	7317.506	n/a		Adjusting washer D120xD145.5x2.80	
	7317.505	n/a		Adjusting washer D120xD145.5x2.85	
	7317.504	n/a		Adjusting washer D120xD145.5x2.90	
	7317.503	n/a		Adjusting washer D120xD145.5x2.95	
	7317.118	n/a		Adjusting washer D120xD145.5x3.00	
19	9816.132	1		Shifting rod	
20	9809.066	1		Shifting fork	
21	7317.023	1	☐	Adjusting kit	
	7317.111	n/a		Adjusting washer D20.4xD34.6x1.5	
	7317.112	n/a		Adjusting washer D20.4xD34.6x2.0	
	7317.113	n/a		Adjusting washer D20.4xD34.6x2.5	
	7317.114	n/a		Adjusting washer D20.4xD34.6x3.0	
22	7331.016	1		Compression spring	
23	9809.116	1		Shifting lever	
24	1060.003	1		Hexagon nut	
25	1170.010	1		O-Ring	
26	5263.061	1		Cylinder	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 17 Axle Differential Continued.....

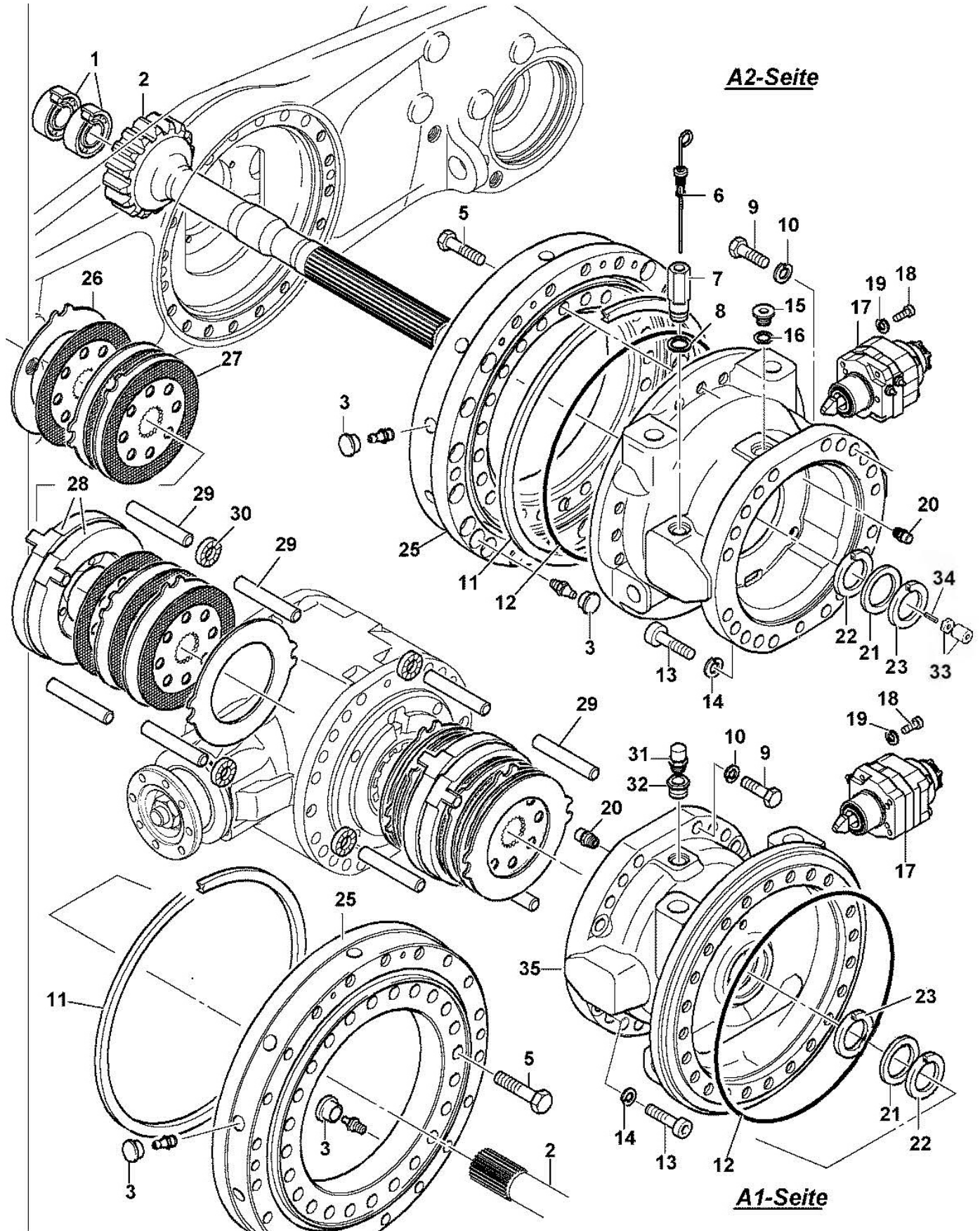
REF	PART #	QTY	DESCRIPTION	SEE PAGE
27	1180.734	1	Lip seal	
28	1180.811	1	Piston packing	
29	5252.100	1	Piston	
30	1170.716	2	O-Ring	
31	1010.129	2	Hexagon bolt	
32	9566.010	2	Locking plate	
33	9813.104	1	Shifting sleeve	
34	7329.012	1	Nut	
35	1020.212	4	Allen screw	
36	7527.140	1	Flange	
37	1200.481	2	Clamping sleeve	
38	1170.702	2	O-Ring	
39	7506.269	1	Differential housing	
40	1040.103	1	Screw plug	
41	1180.507	1	Seal ring	
42	9556.021	1	Screw plug	
43	1180.502	1	Seal ring	
44	1110.007	1	Tapered roller bearing	
45	7527.139	1	Flange	
46	7329.082	1	Nut	
47	7311.070	1	Spacer bushing	
48	7317.037	1	☐ Adjusting kit	
	7317.185	n/a	Adjusting washer D55xD68x0.96	
	7317.184	n/a	Adjusting washer D55xD68x1.00	
	7317.183	n/a	Adjusting washer D55xD68x1.04	
	7317.182	n/a	Adjusting washer D55xD68x1.08	
	7317.181	n/a	Adjusting washer D55xD68x1.12	
	7317.180	n/a	Adjusting washer D55xD68x1.16	
	7317.179	n/a	Adjusting washer D55xD68x1.20	
	7317.178	n/a	Adjusting washer D55xD68x1.24	
	7317.177	n/a	Adjusting washer D55xD68x1.28	
	7317.176	n/a	Adjusting washer D55xD68x1.32	
	7317.175	n/a	Adjusting washer D55xD68x1.36	
	7317.174	n/a	Adjusting washer D55xD68x1.40	
	7317.173	n/a	Adjusting washer D55xD68x1.44	
49	7311.071	1	Spacer bushing D70x12.26	
49	7311.062	1	Spacer bushing D70x11.3	
49	7311.063	1	Spacer bushing D70x11.78	
50	1110.186	1	Tapered roller bearing	
51	1220.932	1	Seeger snap ring	
52	7308.054	1	Radial seal	
53	7308.055	2	Seal ring	
54	7315.110	1	Washer	
55	1170.534	1	O-Ring	
56	1250.103	1	Tapered lube nipple	
57	7319.091	1	Gasket	
58	1010.201	4	Hexagon bolt	
59	1190.011	4	Lock washer	
60	7301.077	1	Cover	
61	7329.057	1	Nut	
62	7521.236	1	Cardan flange	
63	1180.125	1	V-Ring	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 17 Axle

Axle housing A1-Side

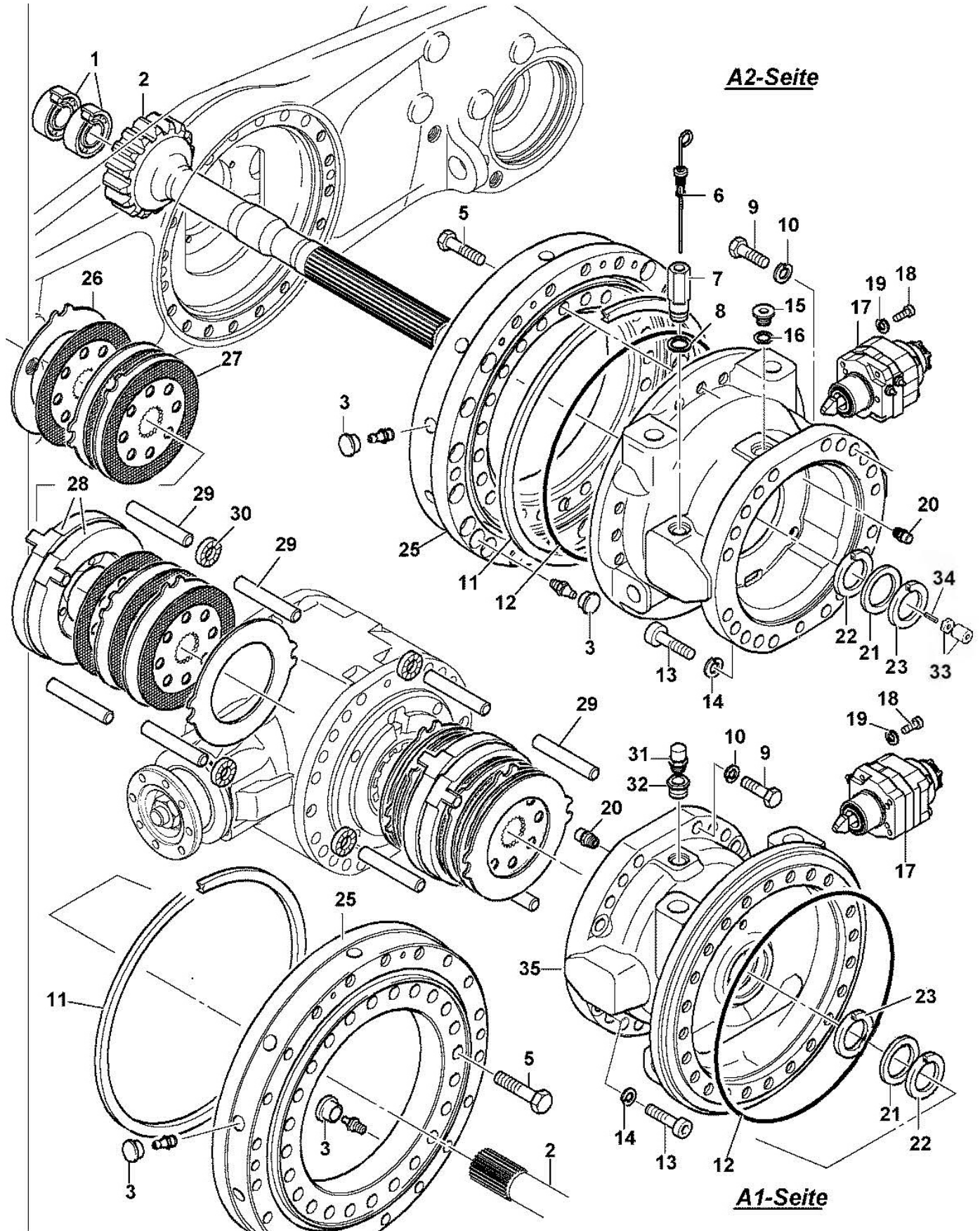
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	1130.067	2	Cylindrical roller bearing	
2	7818.175	1	Sun gear shaft	
3	1750.683	4	Plug	
4	---			
5	1010.669	24	Hexagon bolt	
6	---			
7	---			
8	---			
9	1010.668	16	Hexagon bolt	
10	1190.014	16	Detent edged ring	
11	7308.071	1	Scraper ring	
12	1170.726	1	O-Ring	
13	1020.620	4	Allen screw	
14	1190.014	4	Detent edged ring	
15	---			
16	---			
17	5350.090	1	Spring brake cylinder	
18	1020.260	3	Allen screw	
19	1190.031	3	Detent edged ring	
20	1250.002	1	Breather	
21	7315.187	1	Washer	
22	1160.236	1	Oil seal	
23	7308.063	1	Seal ring	
24	---			
25	7305.051	1	Slewing ring	
26	7344.036	6	Intermediate disk	
27	7345.057	6	Lined disk	
28	5504.002	1	Operating disk assembly	
29	7321.151	4	Pin	
30	1190.211	2	Toothed ring	
31	1250.015	1	Breather	
32	1750.705	1	Reducing nipple	
33	2108.101	1	Adjusting set	
	7321.186	1	Adjusting pin	
	7315.300	n/a	Washer 1.0 thick	
	7315.301	n/a	Washer 1.5 thick	
34	1200.480	1	Clamping sleeve	
35	7276.114	1	Axle housing A1 Side	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 17 Axle

Axle housing A2-Side

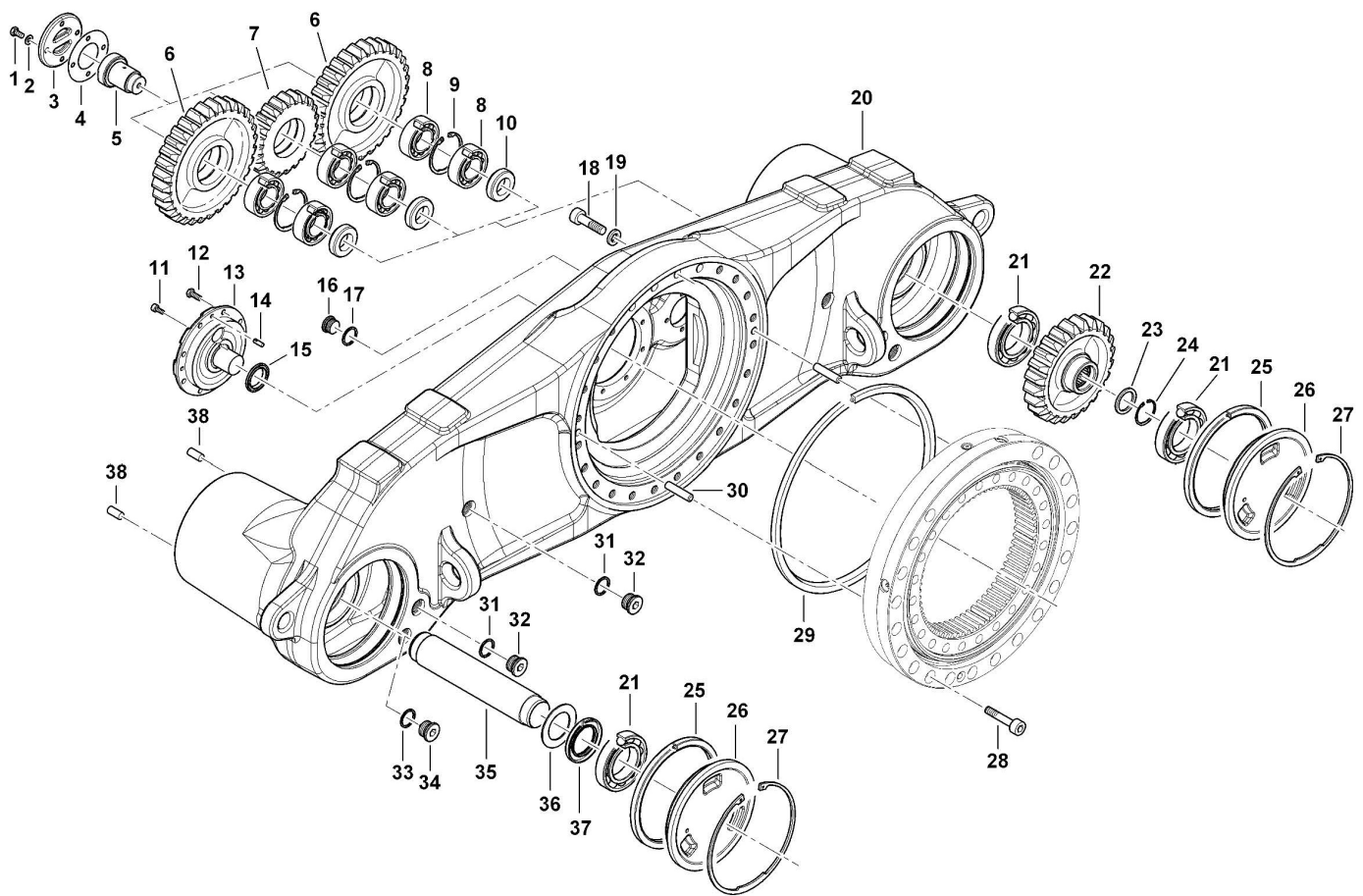
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	1130.067	2	Cylindrical roller bearing	
2	7818.175	1	Sun gear shaft	
3	1750.683	4	Plug	
4	---			
5	1010.669	24	Hexagon bolt	
6	7325.037	1	Oil dip stick	
7	7322.074	1	Threaded stud	
8	1180.541	1	Seal ring	
9	1010.668	16	Hexagon bolt	
10	1190.014	16	Detent edged ring	
11	7308.071	1	Scraper ring	
12	1170.726	1	O-Ring	
13	1020.620	4	Allen screw	
14	1190.014	4	Detent edged ring	
15	1040.151	1	Screw plug	
16	1180.541	1	Seal ring	
17	5350.090	1	Spring brake cylinder	
18	1020.260	3	Allen screw	
19	1190.031	3	Detent edged ring	
20	1250.002	1	Breather	
21	7315.187	1	Washer	
22	1160.236	1	Oil seal	
23	7308.063	1	Seal ring	
24	7276.115	1	Axle housing A2 Side	
25	7305.051	1	Slewing ring	
26	7344.036	6	Intermediate disk	
27	7345.057	6	Lined disk	
28	5504.002	1	Operating disk assembly	
29	7321.151	4	Pin	
30	1190.211	2	Toothed ring	
31	-			
32	1750.705	1	Reducing nipple	
33	2108.101	1	Adjusting set	
	7321.186	1	Adjusting pin	
	7315.300	n/a	Washer 1.0 Thick	
	7315.301	n/a	Washer 1.5 Thick	
34	1200.480	1	Clamping sleeve	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 17 Axle Bogie Housing

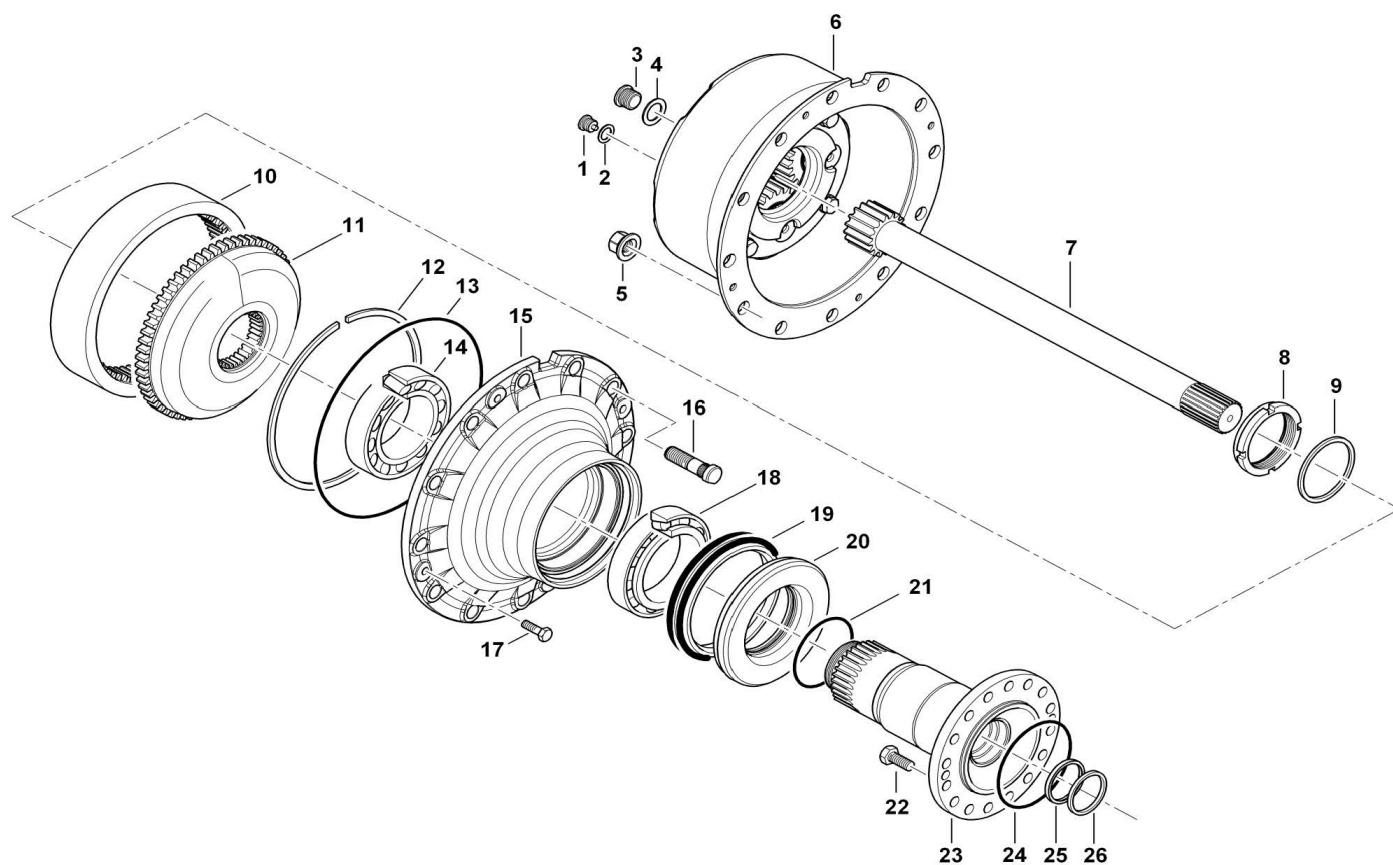
REF	PART #	QTY	DESCRIPTION	SEE PAGE
---	2405.178		Bogie housing Complete (two per axle)	
1	1010.233	24	Hexagon bolt	
2	7316.048	24	Washer	
3	7302.011	6	Cover	
4	7319.161	6	Gasket	
5	7321.131	6	Pin	
6	9804.356	4	Spur gear	
7	9804.313	2	Spur gear	
8	1130.057	12	Cylindrical roller bearing	
9	1220.702	6	Seeger circlip ring	
10	7311.089	6	Spacer bushing	
11	1020.113	2	Allen screw	
12	1010.234	8	Hexagon bolt	
13	7321.120	1	Bearing pin	
14	1200.309	1	Grooved dowel pin	
15	1180.841	1	Shaft seal	
16	1040.103	1	Screw plug	
17	1180.507	1	Seal ring	
18	1020.618	4	Allen screw	
19	7316.044	4	Washer	
20	7277.126	1	Bogie housing	
21	1120.107	4	Deep groove ball bearing	
22	9804.352	2	Spur gear	
23	1210.110	2	Seeger support washer	
24	1220.714	2	Seeger circlip ring	
25	7308.051	2	Seal ring	
26	7302.082	2	Cover	
27	1220.837	2	Seeger circlip ring	
28	1020.618	20	Allen screw	
29	7308.040	1	Seal ring	
30	1200.206	2	Dowel pin	
31	1180.507	4	Seal ring	
32	1040.103	4	Screw plug	
33	1180.507	2	Seal ring	
34	7323.013	2	Screw plug	
35	7343.030	2	Tube	
36	7315.106	2	Washer	
37	1160.275	2	Oil seal	
38	1200.286	4	Dowel pin	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 17 Axle Wheel End

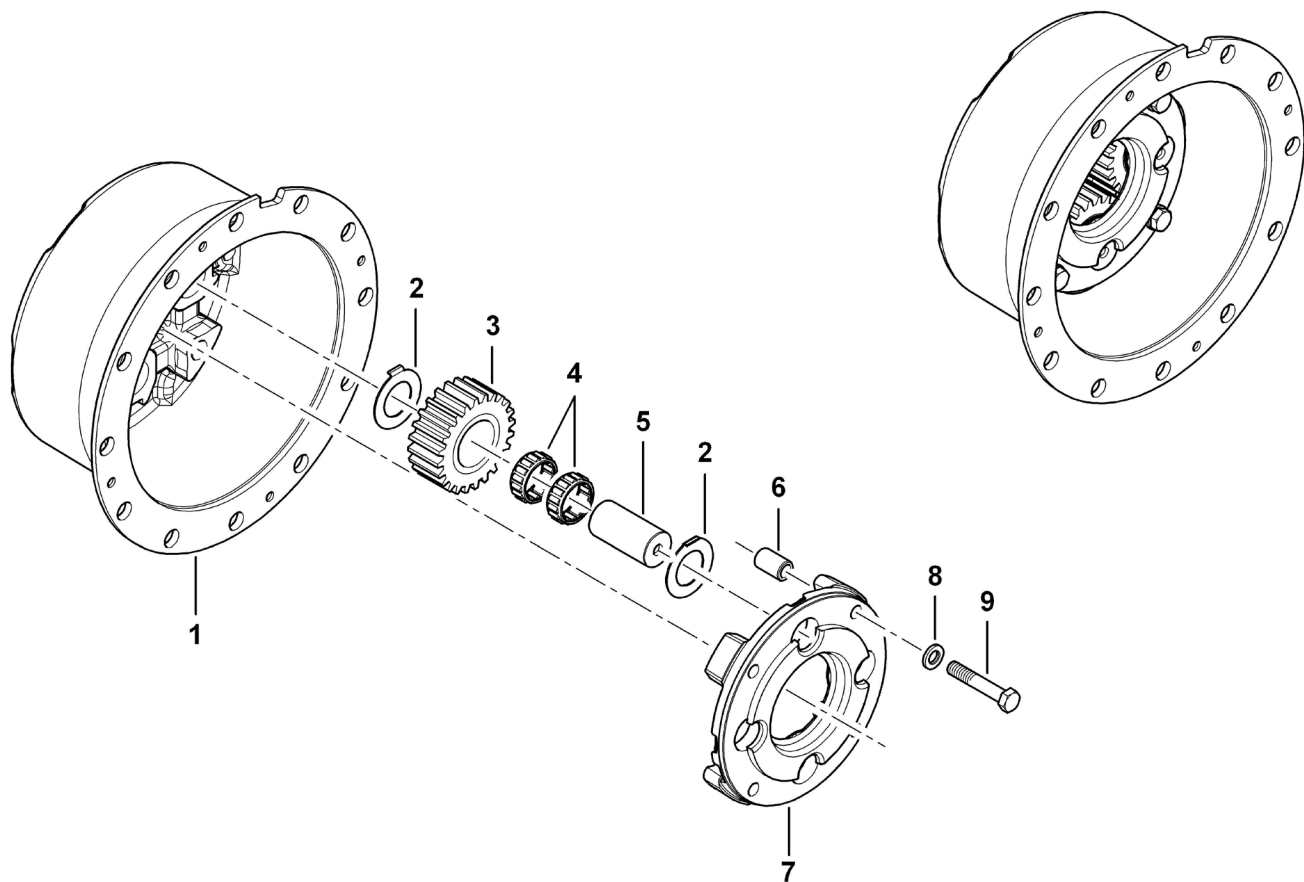
REF	PART #	QTY	DESCRIPTION	SEE PAGE
---	2402.157	4	Wheel end complete	
1	9556.021	2	Screw plug	
2	1180.502	2	Seal ring	
3	7323.016	1	Screw plug	
4	2108.017	1	☐ Shim kit	
	1210.296	n/a	Seeger adjusting washer 30x42x0.5	
	1210.295	n/a	Seeger adjusting washer 30x42x1.0	
	1210.113	n/a	Seeger support washer	
5	1060.408	12	Wheel nut with rotating washer	
6	2218.014	1	Planetary gear drive COMPLETE	
7	7818.086	1	Sun gear shaft	
8	7329.073	1	Nut M85x2	
9	7317.047	1	☐ Adjusting kit	
	7317.199	n/a	Adjusting washer D86xD105.5x2.500	
	7317.200	n/a	Adjusting washer D86xD105.5x2.375	
	7317.201	n/a	Adjusting washer D86xD105.5x2.250	
	7317.202	n/a	Adjusting washer D86xD105.5x2.125	
	7317.203	n/a	Adjusting washer D86xD105.5x2.000	
	7317.204	n/a	Adjusting washer D86xD105.5x1.875	
	7317.205	n/a	Adjusting washer D86xD105.5x1.750	
	7317.206	n/a	Adjusting washer D86xD105.5x1.625	
	7317.207	n/a	Adjusting washer D86xD105.5x1.500	
	7317.208	n/a	Adjusting washer D86xD105.5x1.375	
10	7801.042	1	Ring gear	
11	7804.044	1	Ring gear carrier	
12	1220.913	1	Seeger snap ring	
13	1170.755	1	O-Ring	
14	1110.221	1	Tapered roller bearing	
15	7828.143	1	Wheel hub	
16	7133.018	12	Wheel bolt	
17	1110.222	1	Tapered roller bearing	
18	7322.088	4	Hexagon bolt	
19	1180.325	1	Face seal	
20	7306.032	1	Spindle ring	
21	1170.547	1	O-Ring	
22	7322.069	16	Hexagon bolt	
23	7814.182	1	Spindle	
24	1170.553	1	O-Ring	
25	1160.244	1	Oil seal	
26	7315.107	1	Washer	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 17 Axle

Planetary Assembly

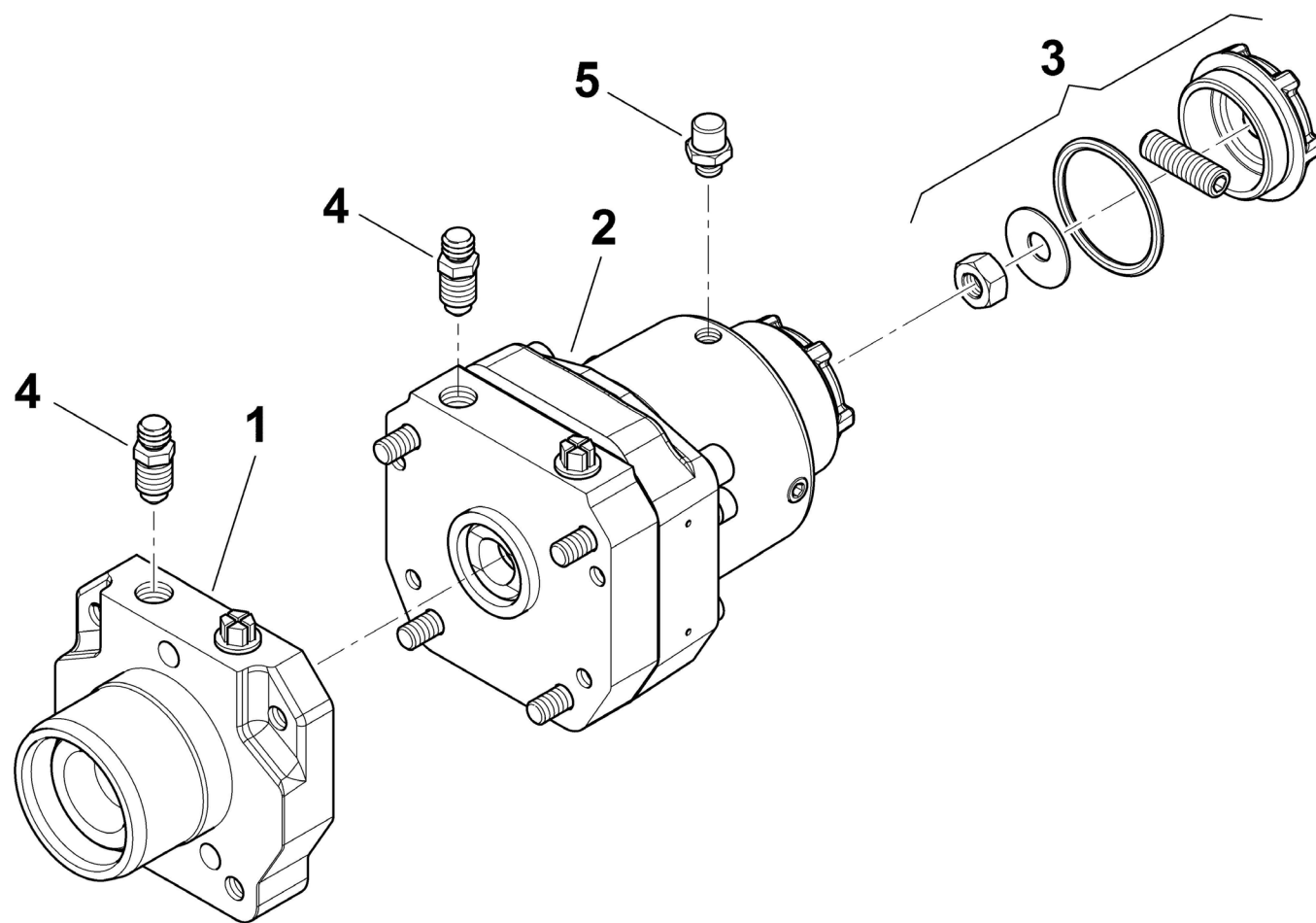
REF	PART #	QTY	DESCRIPTION	SEE PAGE
---	2218.014	1	Planetary gear drive	
1	7821.271	1	Planet carrier	
2	9633.010	8	Thrust washer	
3	7806.060	4	Planet gear	
4	7305.071	4	Two-row roller bearing	
5	7807.056	4	Planetary pin	
6	7313.018	4	Shear pin	
7	7821.179	1	Planet carrier	
8	7316.045	4	Washer	
9	1010.536	4	Hexagon bolt	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 17 Axle Brake Cylinder

REF	PART #	QTY		DESCRIPTION	SEE PAGE
--	52746-AX		☐	Spring loaded cyl. complete	
1	5350.097	1		Brake cylinder (lower part)	
2	5350.100	1		Spring brake (upper part)	
3	2208.004	1		Park brake release kit	
4	1250.598	2		Breather valve	
5	1250.002	1		Breather	
-	53969-AX			Seal Kit Brake Cylinder	



See referenced page for component or assembly breakdown.

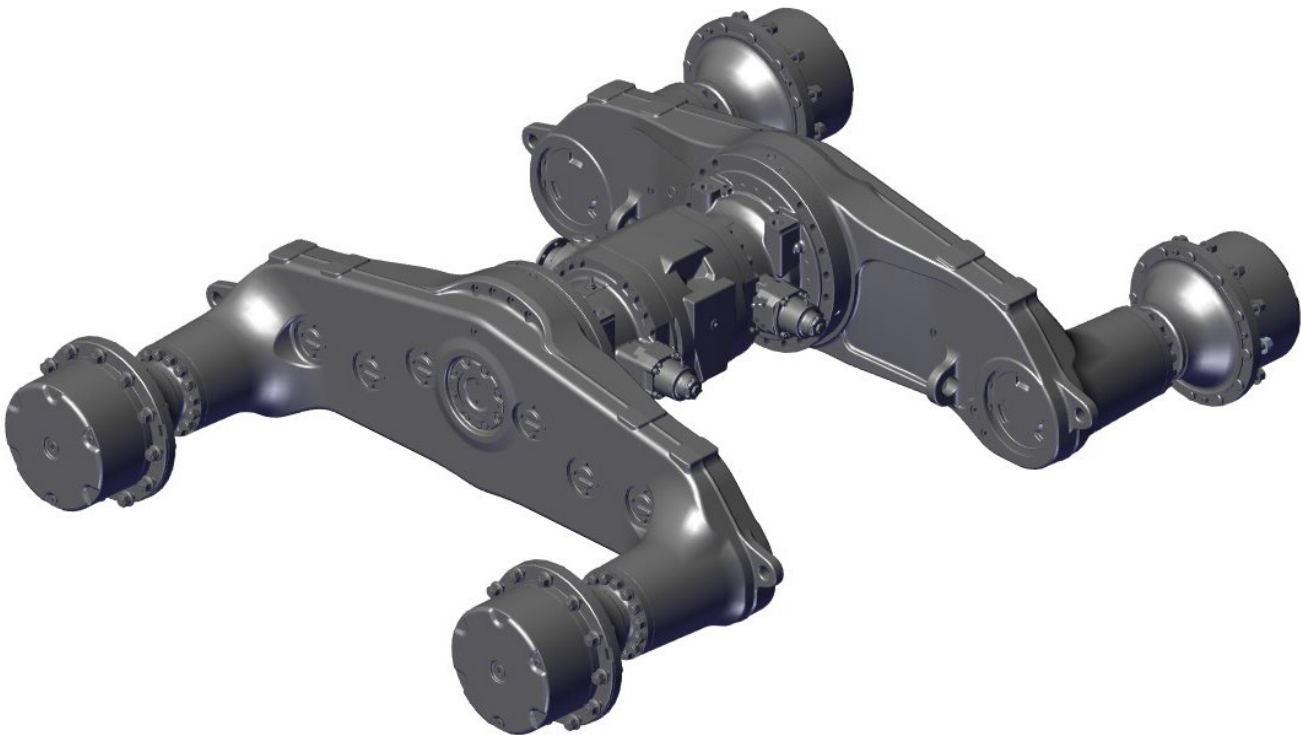


Kit or Assembly - includes all items indented underneath.

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Section AX-3

Axles, Gearboxes & Wheels - *Gearboxes (TIM 23)* *840 - Bogie Axles*



Complete Axle

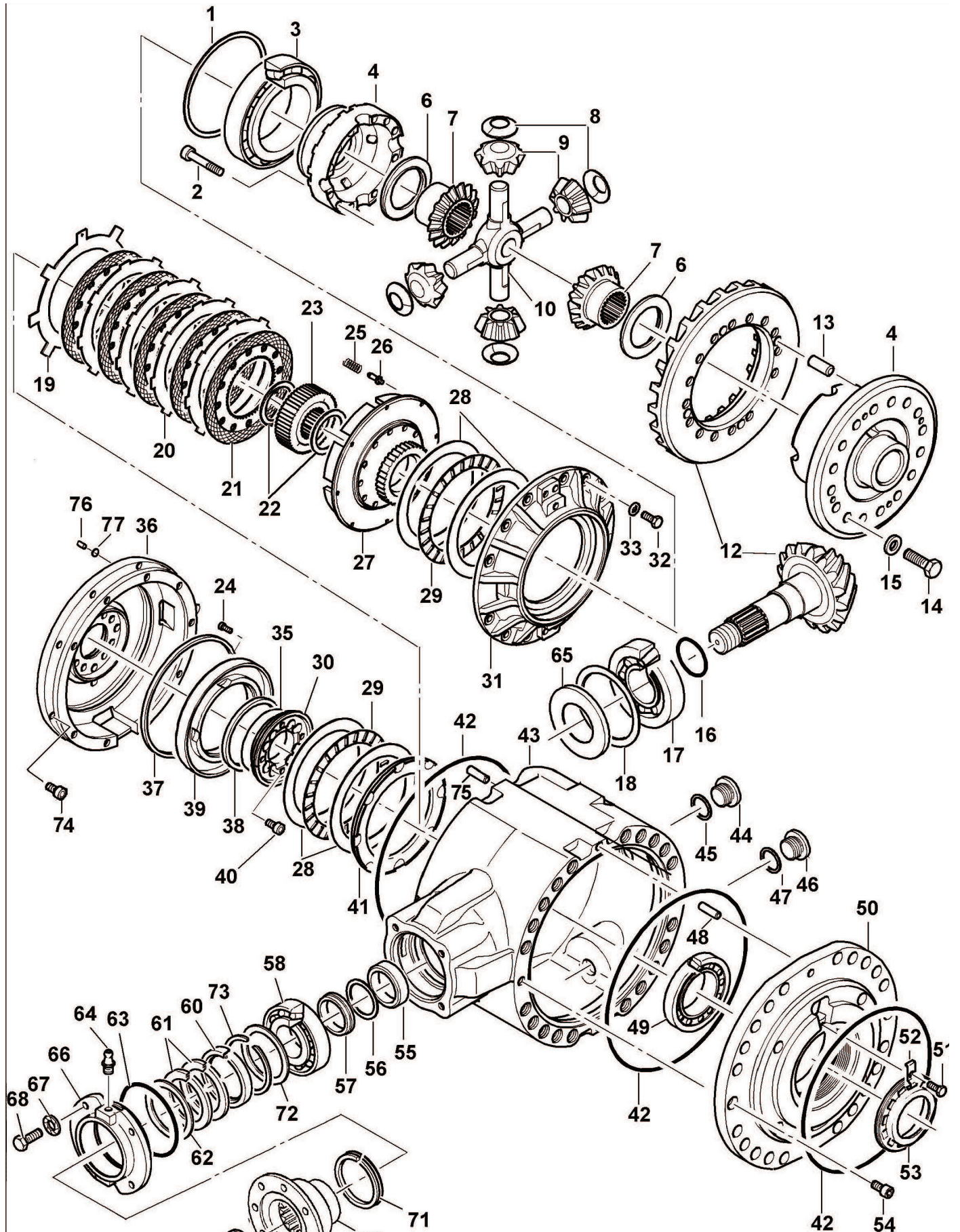
REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	53625	2	AXLE, TANDEM - TIM 23 (NON BALANCED) 840C	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Differential

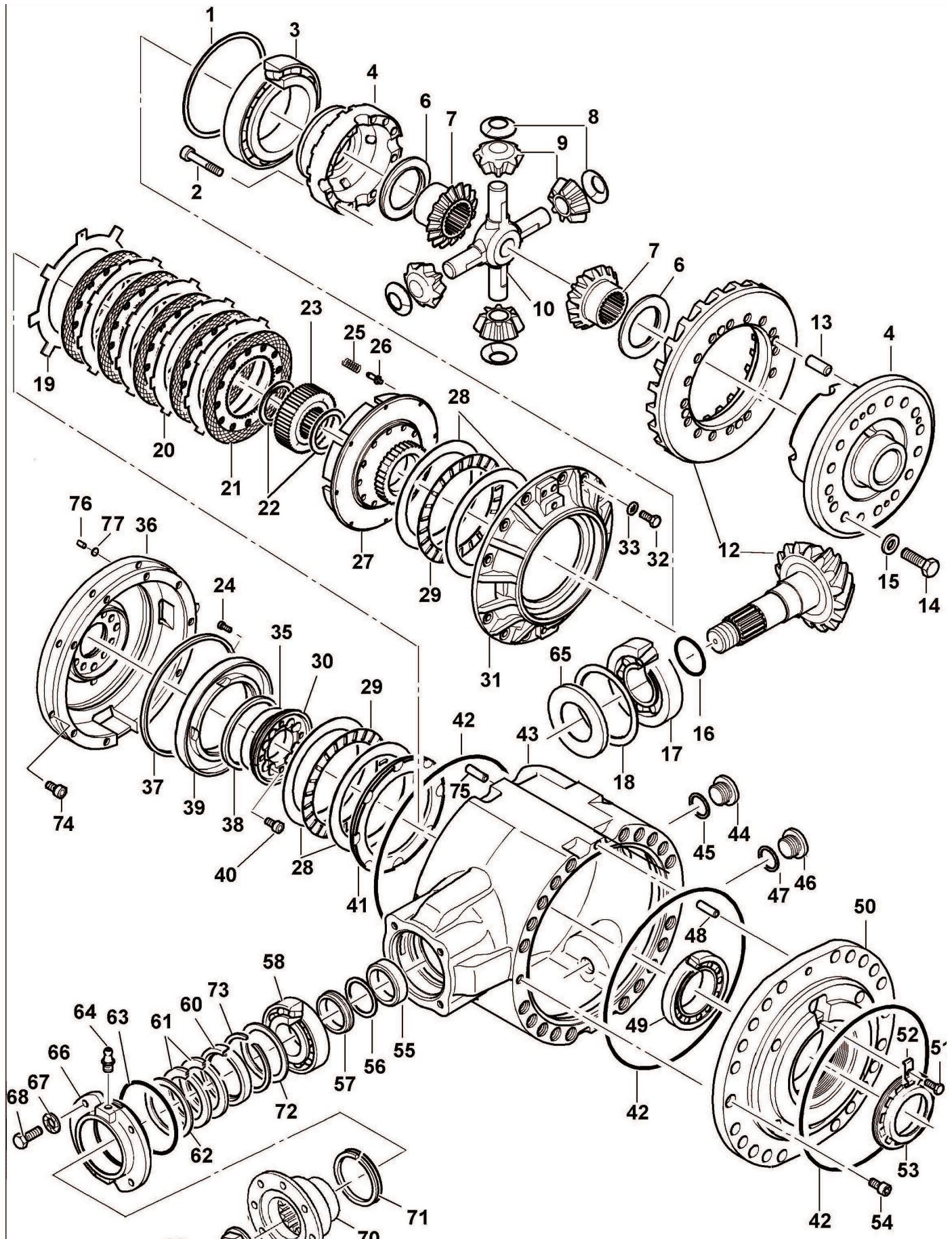
REF	PART #	QTY	DESCRIPTION	SEE PAGE
---	2401.496	1	Differential complete	
---	2219.086	1	Diff.-cage complete	
---	7570.016	1	Multiple disk diff. lock	
1	2108.060	1	☐ Shim kit s=1,0 - 2,25	
1	7317.297	na	Adjusting washer	s=1,5
1	7317.298	na	Adjusting washer	s=1,55
1	7317.299	na	Adjusting washer	s=1,6
1	7317.300	na	Adjusting washer	s=1,65
1	7317.301	na	Adjusting washer	s=1,7
1	7317.302	na	Adjusting washer	s=1,75
1	7317.303	na	Adjusting washer	s=1,8
1	7317.304	na	Adjusting washer	s=1,85
1	7317.305	na	Adjusting washer	s=1,9
1	7317.306	na	Adjusting washer	s=1,95
1	7317.307	na	Adjusting washer	s=2,0
1	7317.308	na	Adjusting washer	s=2,05
1	7317.309	na	Adjusting washer	s=2,1
1	7317.310	na	Adjusting washer	s=2,15
1	7317.311	na	Adjusting washer	s=2,2
1	7317.312	na	Adjusting washer	s=2,25
1	7317.323	na	Adjusting washer	s=1,0
1	7317.324	na	Adjusting washer	s=1,2
2	1020.374	12	Allen screw	
3	1110.233	1	Tapered-roller bearing	
4	2102.188	1	Differential cage	
5	---			
6	7517.014	2	☐ Adjusting kit	s=1,5 - 4,0
6	7517.028	na	Thrust washer	s=2,8
6	7517.029	na	Thrust washer	s=3,0
6	7517.030	na	Thrust washer	s=3,2
6	7517.031	na	Thrust washer	s=2,0
6	7517.032	na	Thrust washer	s=2,2
6	7517.033	na	Thrust washer	s=2,6
6	7517.034	na	Thrust washer	s=4,0
6	7517.035	na	Thrust washer	s=3,4
6	7517.036	na	Thrust washer	s=3,6
6	7517.037	na	Thrust washer	s=3,8
7	7513.055	2	Differential gear	
8	7518.030	4	Thrust washer	
9	7514.033	4	Compensating gear	
10	7515.032	1	Cross bolt	
11	---			
12	2101.355	1	Crown wheel/pinion	
13	1200.228	4	Dowel pin	
14	1510.559	16	Hexagon bolt	
15	7316.045	16	Washer 16.1x30x4 C45 HARDENED	
16	1170.013	1	O-ring OR 42x4.5 72NBR872	
17	1110.223	1	Tapered-roller bearing	
18	2108.047	1	☐ Shim kit s=3,0 - 2,5 step 0,25	
18	7317.247	na	Adjusting washer	s=3,0
18	7317.248	na	Adjusting washer	s=2,75
18	7317.249	na	Adjusting washer	s=2,5



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Differential Continued.....

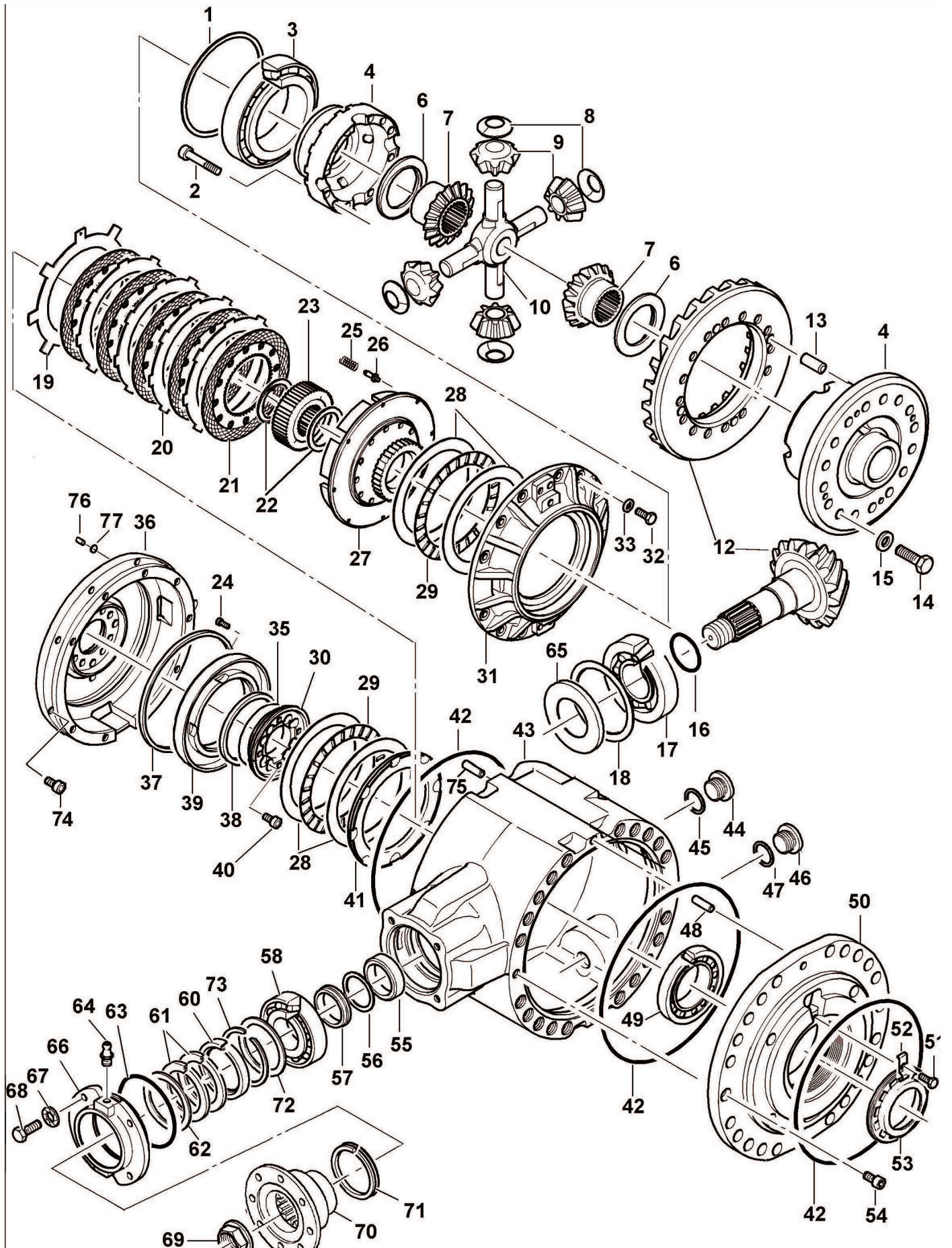
REF	PART #	QTY	DESCRIPTION	SEE PAGE
19	7344.050	1	Steel disk	
20	7344.049	5	Steel disk	
21	7345.056	6	Lined disk	
22	7316.125	2	Thrust washer	
23	9867.106	1	Disk carrier	
24	1020.029	1	Allen screw	
25	7331.048	8	Compression spring	
26	7322.113	8	Bolt	
27	9867.107	1	Disk carrier	
28	1130.596	4	Washer	
29	1130.283	2	Thrust needle cage	
30	5252.176	1	Piston	
31	7527.175	1	Flange	
32	1010.266	11	Hexagon bolt	
33	7316.048	11	Washer	
34	---			
35	1170.612	1	O-ring	
36	7527.239	1	Flange	
37	1180.879	1	Shaft packing	
38	1180.911	1	Piston packing	
39	5252.143	1	Piston	
40	1020.220	8	Allen screw	
41	7316.176	1	Thrust washer	
42	1170.735	3	O-ring	
43	7506.400	1	Differential housing	
44	1040.151	1	Screw plug	
45	1180.541	1	Seal ring	
46	7323.025	1	Screw plug	
47	1180.541	1	Seal ring	
48	1200.235	1	Dowel pin	
49	1110.111	1	Tapered-roller bearing	
50	7527.283	1	Flange	
51	1010.129	1	Hexagon bolt	
52	9566.019	1	Locking plate	
53	7329.133	1	Nut	
54	1020.216	2	Allen screw	
55	7311.116	1	Spacer bushing	
56	2108.046	1	☐ Shim kit	
56	7317.234	na	Adjusting washers=0,96	
56	7317.235	na	Adjusting washers=1,0	
56	7317.236	na	Adjusting washers=1,04	
56	7317.237	na	Adjusting washers=1,08	
56	7317.238	na	Adjusting washers=1,12	
56	7317.239	na	Adjusting washers=1,16	
56	7317.240	na	Adjusting washers=1,20	
56	7317.241	na	Adjusting washers=1,24	
56	7317.242	na	Adjusting washers=1,28	
56	7317.243	na	Adjusting washers=1,32	
56	7317.244	na	Adjusting washers=1,36	
56	7317.245	na	Adjusting washers=1,40	
56	7317.246	na	Adjusting washers=1,44	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Differential Continued.....

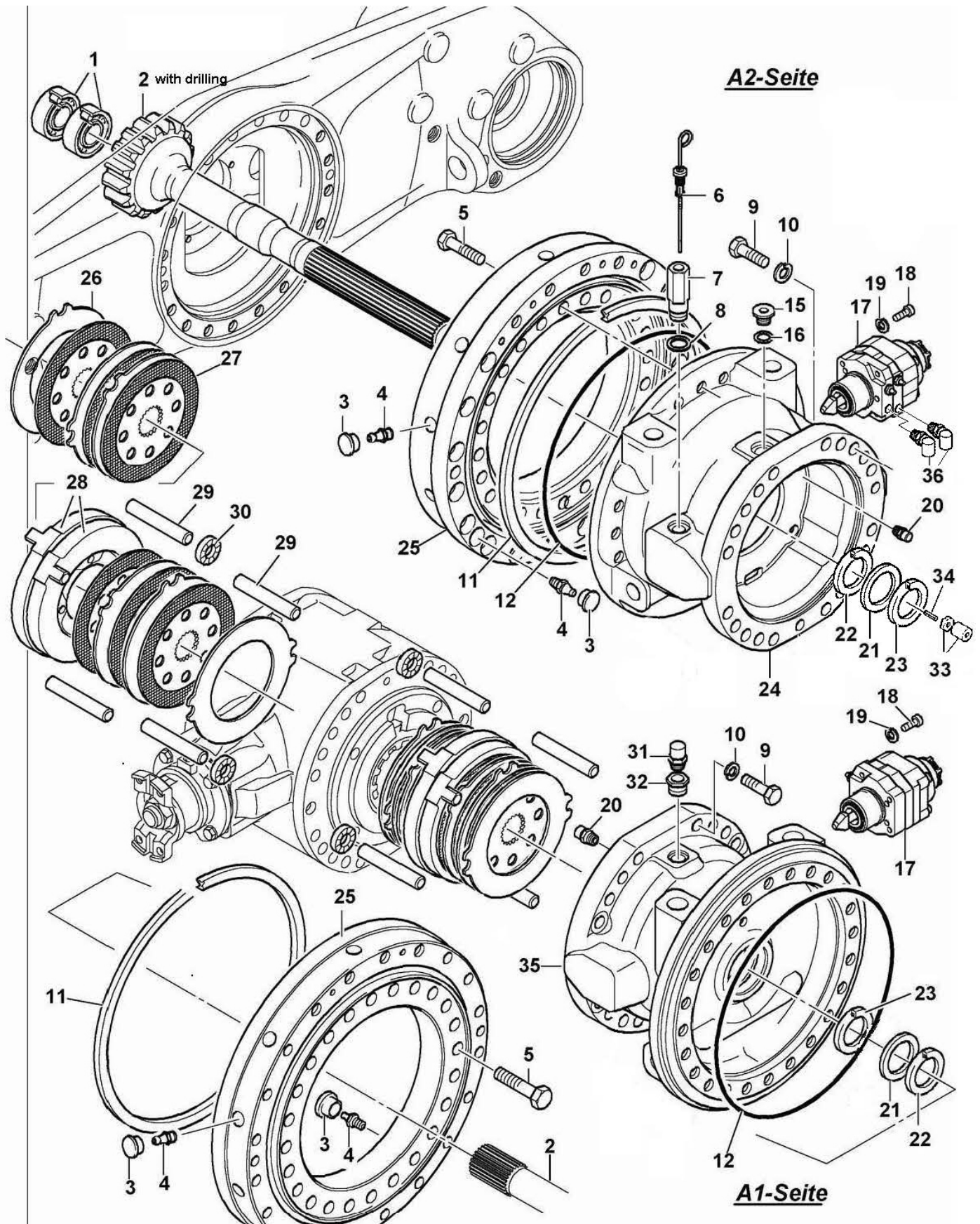
REF	PART #	QTY		DESCRIPTION	SEE PAGE
57	2108.045	1	☐	Spacer bushing Kit.D58xD76x"s"	
57	7311.117	na		Spacer bushings=11,51	
57	7311.118	na		Spacer bushings=11,99	
57	7311.119	na		Spacer bushings=12,47	
58	1110.229	1		Tapered-roller bearing	
59	---				
60	7308.054	1		Radial seal	
61	7308.055	2		Seal ring	
62	7315.110	1		Washer	
63	1170.526	1		O-ring OR	
64	1250.103	1		Tapered lube nipple	
65	7301.064	1		Cover	
66	7301.124	1		Cover	
67	1190.011	4		Lock washer	
68	1010.201	4		Hexagon bolt	
69	7329.057	1		Nut M40x1.5 bonded	
70	7521.236	1		Cardan flange	
71	1180.125	1		V-ring	
72	7315.181	1		Washer	
73	1220.932	1		Seeger snap ring	
74	1020.228	12		Allen screw	
75	1200.286	1		Dowel pin	
76	7312.079	1		Bushing	
77	1170.006	1		O-ring	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Axle Beams - A1

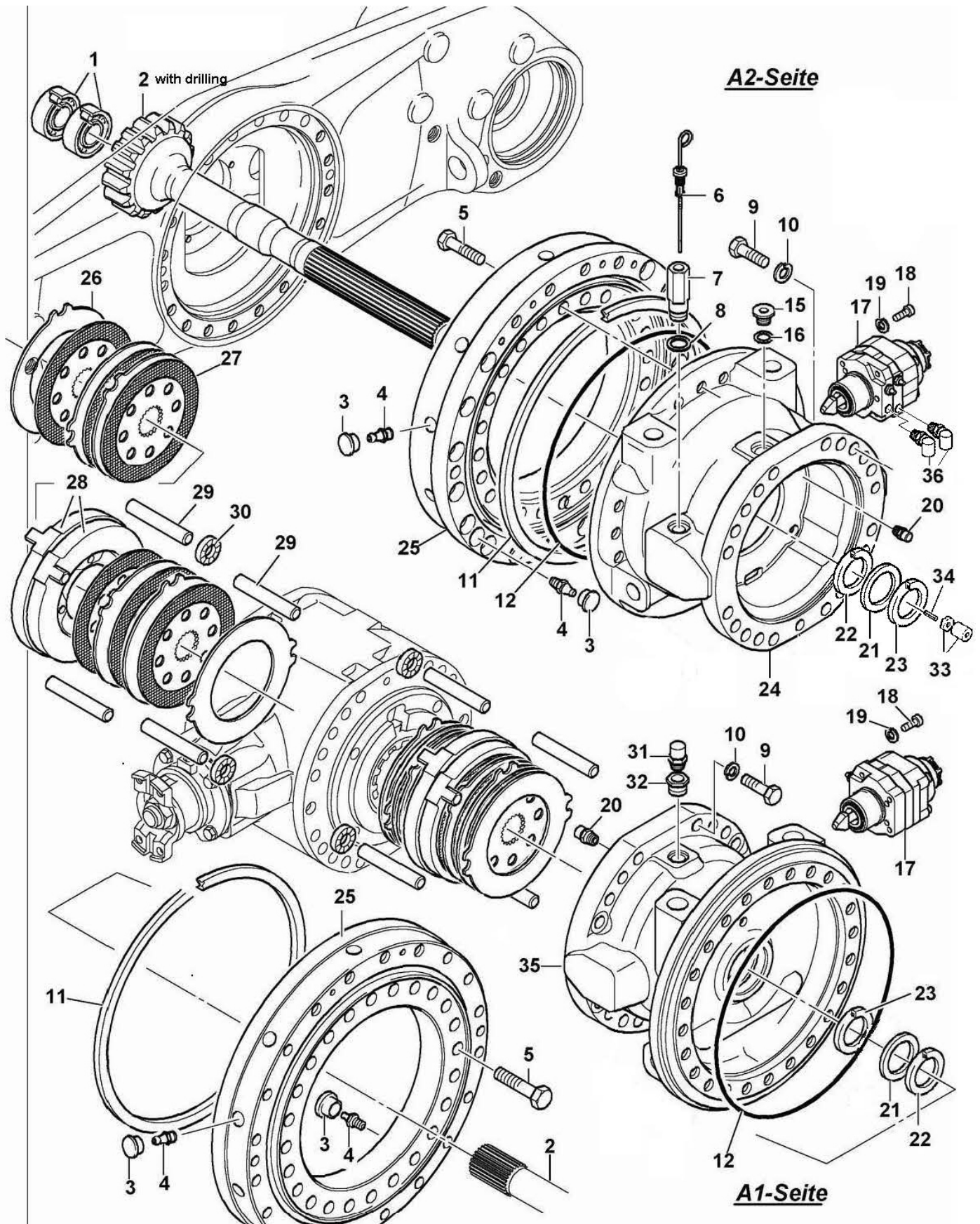
REF	PART #	QTY	DESCRIPTION	SEE PAGE
---	2403.160	1	Axle housing complete A1	
1	1130.067	2	Cylindrical roller bearing	
2	7818.183	1	Sun gear shaft	
3	1750.683	4	Plug	
4	1250.104	2	Tapered lube nipple	
5	1010.669	24	Hexagon bolt	
6	---			
7	---			
8	---			
9	1010.664	18	Hexagon bolt	
10	7316.044	18	Washer	
11	7308.071	1	Scraper ring	
12	1170.726	1	O-ring	
13	---			
14	---			
15	---			
16	---			
17	5350.090	1	Spring brake cylinder	
18	1020.260	3	Allen screw	
19	1190.031	3	Detent edged ring	
20	1250.002	1	Breather	
21	7315.187	1	Washer	
22	1160.236	1	Oil seal	
23	7308.063	1	Seal ring	
24	---			
25	7305.050	1	Slewing ring	
26	7344.036	6	Intermediate disk	
27	7345.057	6	Lined disk	
28	5504.002	1	Operating disk assembly	
29	7321.151	4	Pin	
30	1190.211	2	Toothed ring	
31	1250.015	1	Breather	
32	1750.705	1	Reducing nipple	
33	---			
34	---			
35	7276.137	1	Axle housing	
36	1750.900	1	Adapter	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Axle Beams - A2

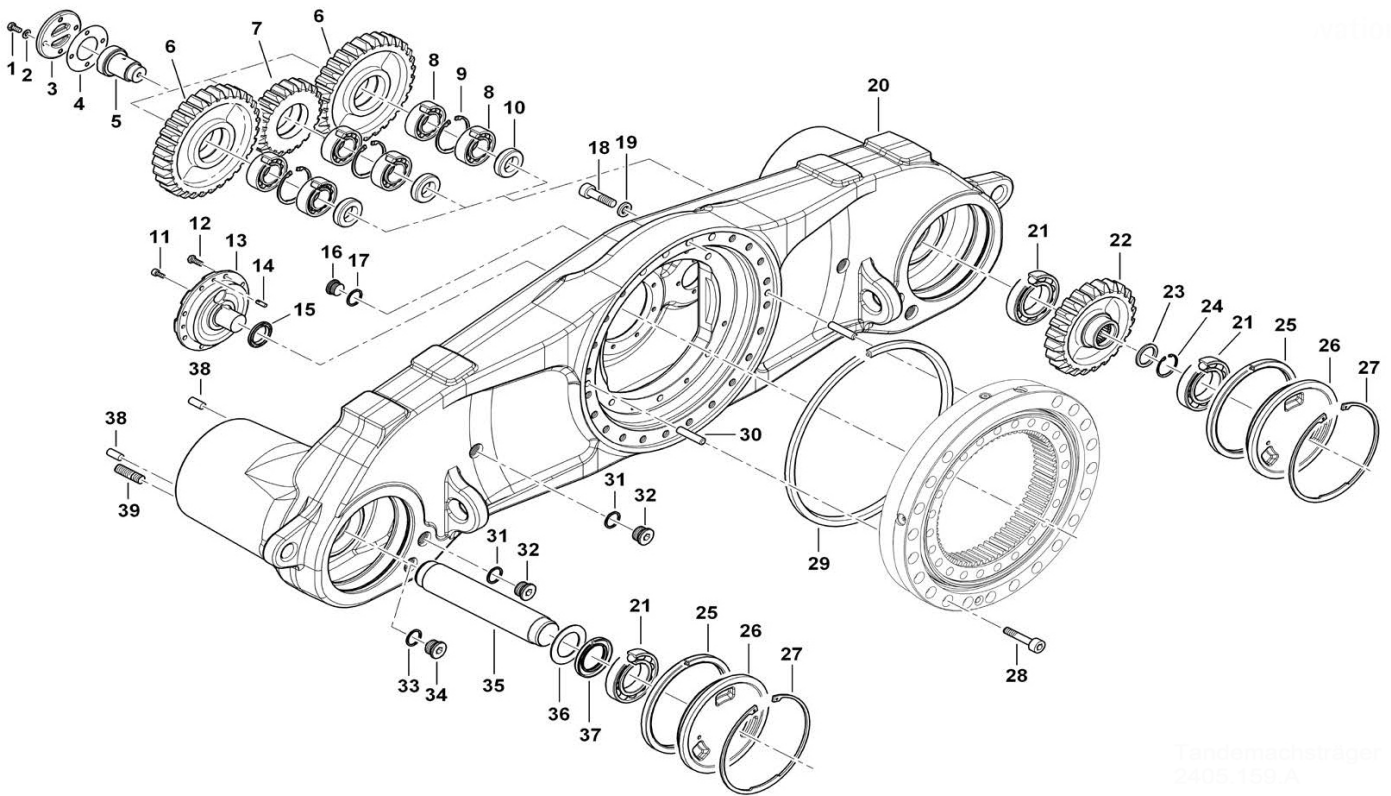
REF	PART #	QTY	DESCRIPTION	SEE PAGE
---	2403.161	1	Axle housing complete A2	
1	1130.067	2	Cylindrical roller bearing	
2	7818.182	1	Sun gear shaft	
3	1750.683	4	Plug	
4	1250.104	2	Tapered lube nipple	
5	1010.669	24	Hexagon bolt	
6	7325.037	1	Oil dip stick	
7	7322.074	1	Threaded stud	
8	1180.541	1	Seal ring	
9	1010.662	18	Hexagon bolt	
10	7316.044	18	Washer	
11	7308.071	1	Scraper ring	
12	1170.726	1	O-ring	
13	---			
14	---			
15	1040.151	1	Screw plug	
16	1180.541	1	Seal ring	
17	5350.090	1	Spring brake cylinder	
18	1020.260	3	Allen screw	
19	1190.031	3	Detent edged ring	
20	1250.002	1	Breather	
21	7315.187	1	Washer	
22	1160.236	1	Oil seal	
23	7308.063	1	Seal ring	
24	7276.136	1	Axle housing	
25	7305.050	1	Slewing ring	
26	7344.036	6	Intermediate disk	
27	7345.057	6	Lined disk	
28	5504.002	1	Operating disk assembly	
29	7321.096	4	Pin	
30	1190.211	2	Toothed ring	
31	---			
32	---			
33	2108.103	1	Adjusting kit	
33	7321.191	1	Adjusting pin	
33	7315.300	3	Washer	
33	7315.301	3	Washer	
34	1200.480	1	Clamping sleeve	
35	---			
36	1750.900	1	Adapter	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Bogie Housing

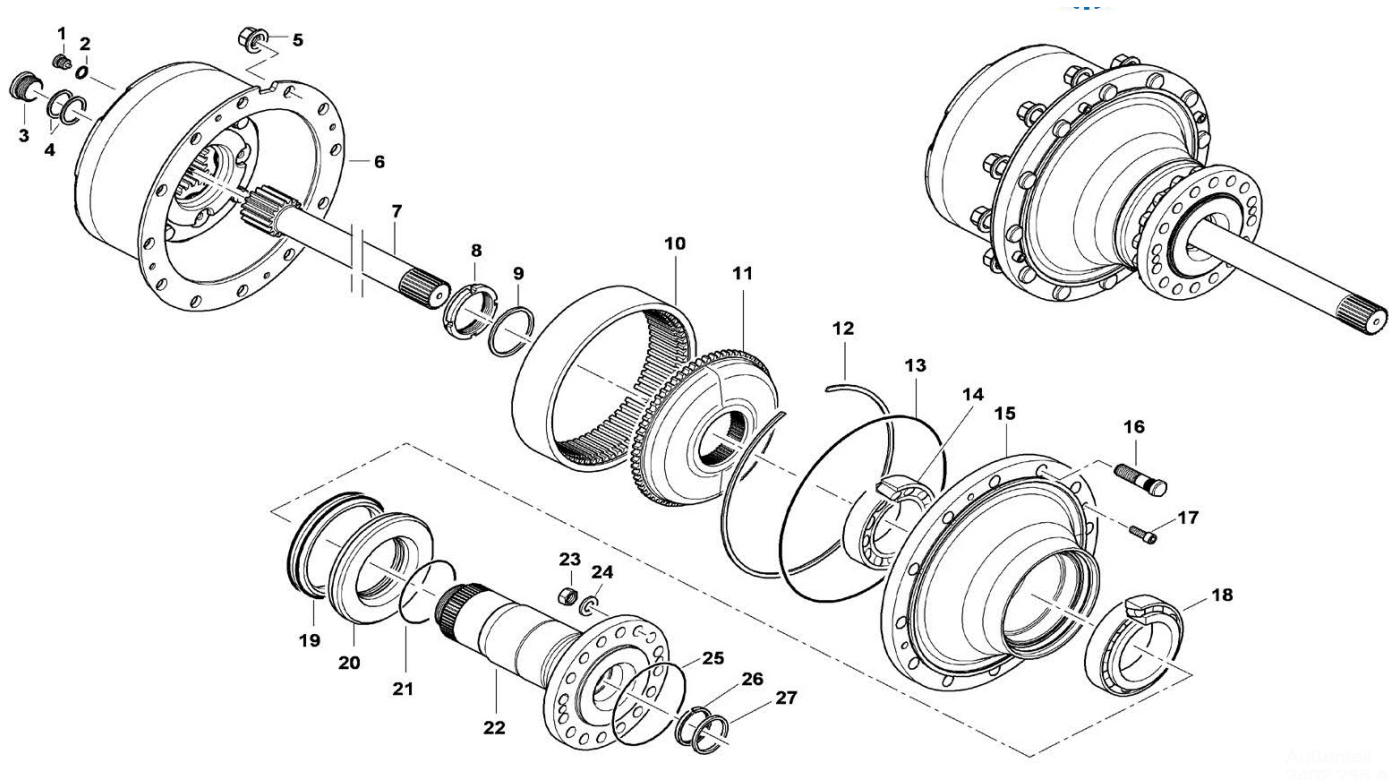
REF	PART #	QTY	DESCRIPTION	SEE PAGE
---	2405.159	2	Bogie housing complete	
1	1010.233	24	Hexagon bolt	
2	7316.048	24	Washer	
3	7302.011	6	Cover	
4	7319.161	6	Gasket	
5	7321.131	6	Pin	
6	9804.532	4	Spur gear	
7	9804.589	2	Spur gear	
8	1130.057	12	Cylindrical roller bearing	
9	1220.702	6	Seeger circlip ring	
10	7311.089	6	Spacer bushing	
11	1020.113	2	Allen screw	
12	1010.234	8	Hexagon bolt	
13	7321.120	1	Bearing pin	
14	1200.309	1	Grooved dowel pin	
15	1180.841	1	Shaft seal	
16	1040.103	1	Screw plug	
17	1180.507	1	Seal ring	
18	1020.618	4	Allen screw	
19	7316.044	4	Washer	
20	7277.148	1	Bogie housing	
21	1120.107	4	Deep groove ball bearing	
22	9804.533	2	Spur gear	
23	1210.110	2	Seeger support washer	
24	1220.714	2	Seeger circlip ring	
25	7308.051	2	Seal ring	
26	7302.082	2	Cover	
27	1220.837	2	Seeger circlip ring	
28	1020.618	20	Allen screw	
29	7308.040	1	Seal ring	
30	1200.206	2	Dowel pin	
31	1180.507	4	Seal ring	
32	1040.103	4	Screw plug	
33	1180.507	2	Seal ring	
34	7323.013	2	Screw plug	
35	7343.030	2	Tube	
36	7315.106	2	Washer	
37	1160.275	2	Oil seal	
38	1200.286	4	Dowel pin	
39	1030.614	32	Stud	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Wheel end complete

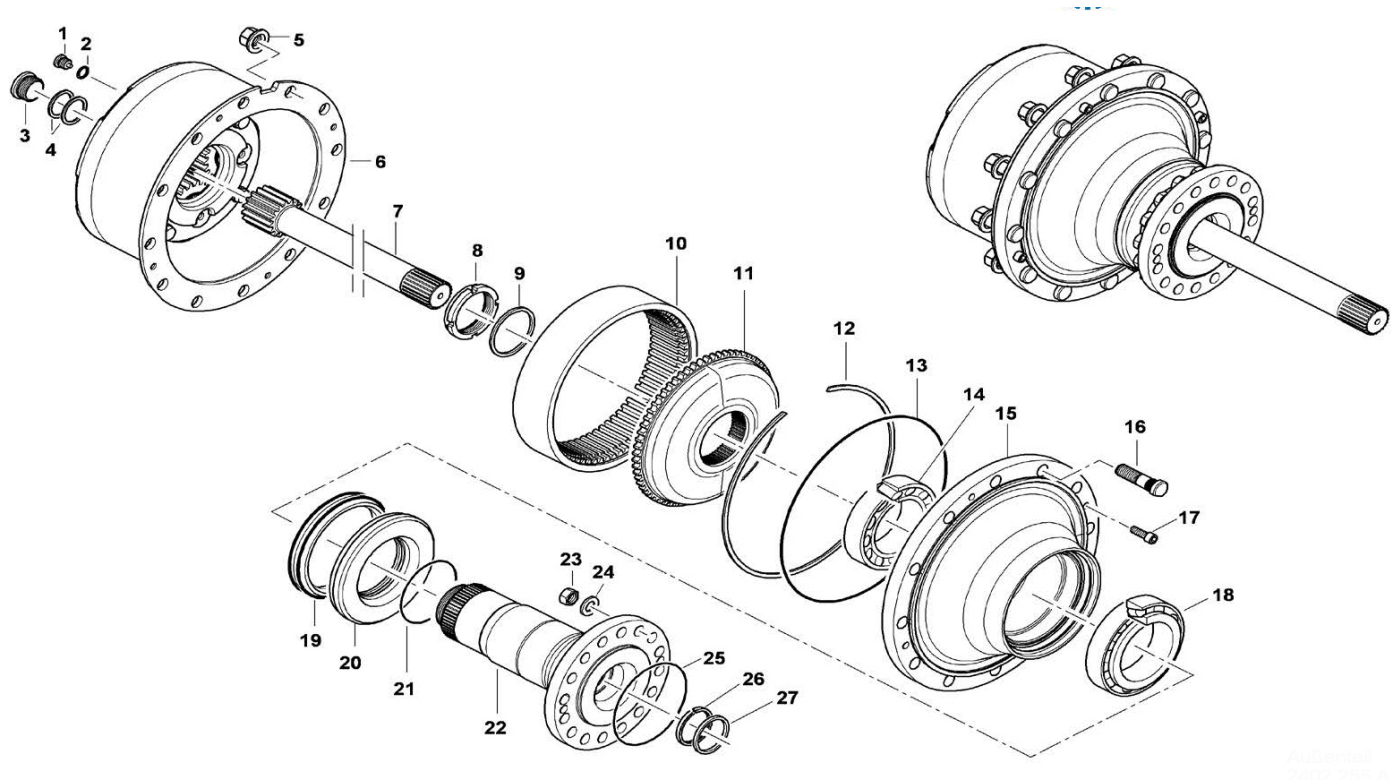
REF	PART #	QTY	DESCRIPTION	SEE PAGE
---	2402.255	4	Wheel end complete	
1	9556.021	2	Screw plug	
2	1180.502	2	Seal ring	
3	7323.016	1	Screw plug	
4	2108.017	1	Adjusting kit	
4	1210.113	1	Seeger support washer	
4	1210.295	2	Seeger adjusting washer	
4	1210.296	1	Seeger adjusting washer	
5	1060.408	12	Wheel nut with rotating washer	
6	2218.038	1	Planetary gear drive cpl.	
7	7818.153	1	Sun gear shaft	
8	7329.073	1	Nut	
9	7317.047	1	 Adjusting kit	
9	7317.199	na	Adjusting washer D86xD105.5x2.500	
9	7317.200	na	Adjusting washer D86xD105.5x2.375	
9	7317.201	na	Adjusting washer D86xD105.5x2.250	
9	7317.202	na	Adjusting washer D86xD105.5x2.125	
9	7317.203	na	Adjusting washer D86xD105.5x2.000	
9	7317.204	na	Adjusting washer D86xD105.5x1.875	
9	7317.205	na	Adjusting washer D86xD105.5x1.750	
9	7317.206	na	Adjusting washer D86xD105.5x1.625	
9	7317.207	na	Adjusting washer D86xD105.5x1.500	
9	7317.208	na	Adjusting washer D86xD105.5x1.375	
10	7801.065	1	Ring gear	
11	7804.058	1	Ring gear carrier	
12	1220.913	1	Seeger snap ring	
13	1170.755	1	O-Ring	
14	1110.221	1	Tapered-roller bearing	
15	7828.164	1	Wheel hub	
16	7133.032	12	Wheel bolt	
17	1020.345	4	Allen screw	
18	1110.222	1	Tapered-roller bearing	
19	1180.325	1	Face seal	
20	7306.032	1	Spindle ring	
21	1170.547	1	O-Ring	
22	7814.233	1	Spindle	
23	1060.010	16	Hexagon nut	
24	7316.050	16	Washer	
25	1170.553	1	O-Ring	
26	1160.244	1	Oil seal	
27	7315.107	1	Washer	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Planetary gear drive

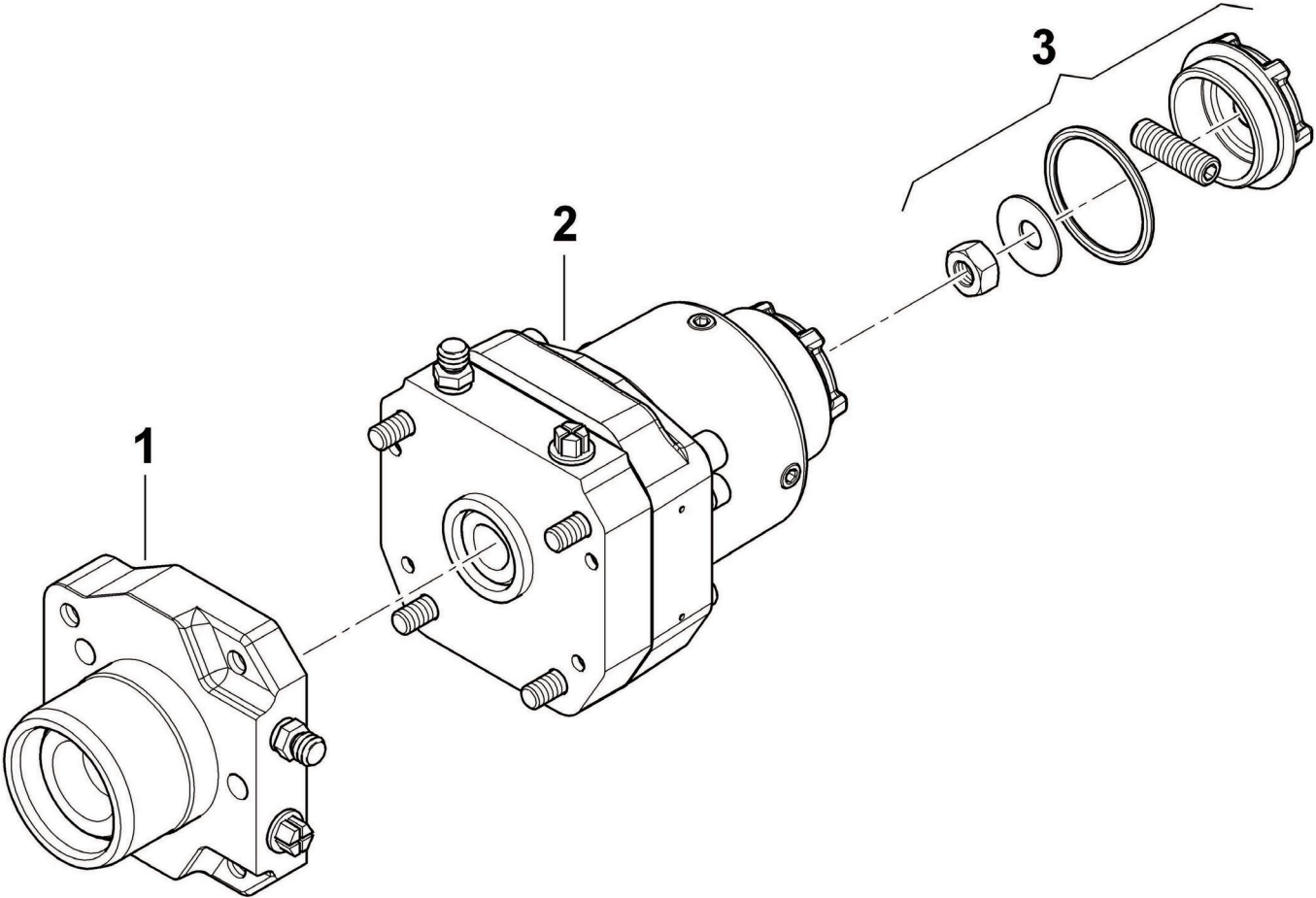
REF	PART #	QTY	DESCRIPTION	SEE PAGE
---	2218.038	1	Planetary gear drive	
1	1010.536	4	Hexagon screw	
2	7316.045	4	Washer	
3	7821.179	1	Planet carrier	
4	7313.018	4	Shear pin	
5	9633.010	8	Thrust washer	
6	7305.070	4	VRS kit	
7	7806.103	4	Planet gear	
8	7807.085	4	Planetary pin	
9	7821.349	1	Planet carrier	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Brake Cylinder

REF	PART #	QTY	DESCRIPTION	SEE PAGE
- - -	5350.090	1	Spring loaded cylinder	
1	5350.097	1	Brake cylinder	
2	5350.100	1	Spring loaded	
3	2208.004	1	Emergency kit	



See referenced page for component or assembly breakdown.

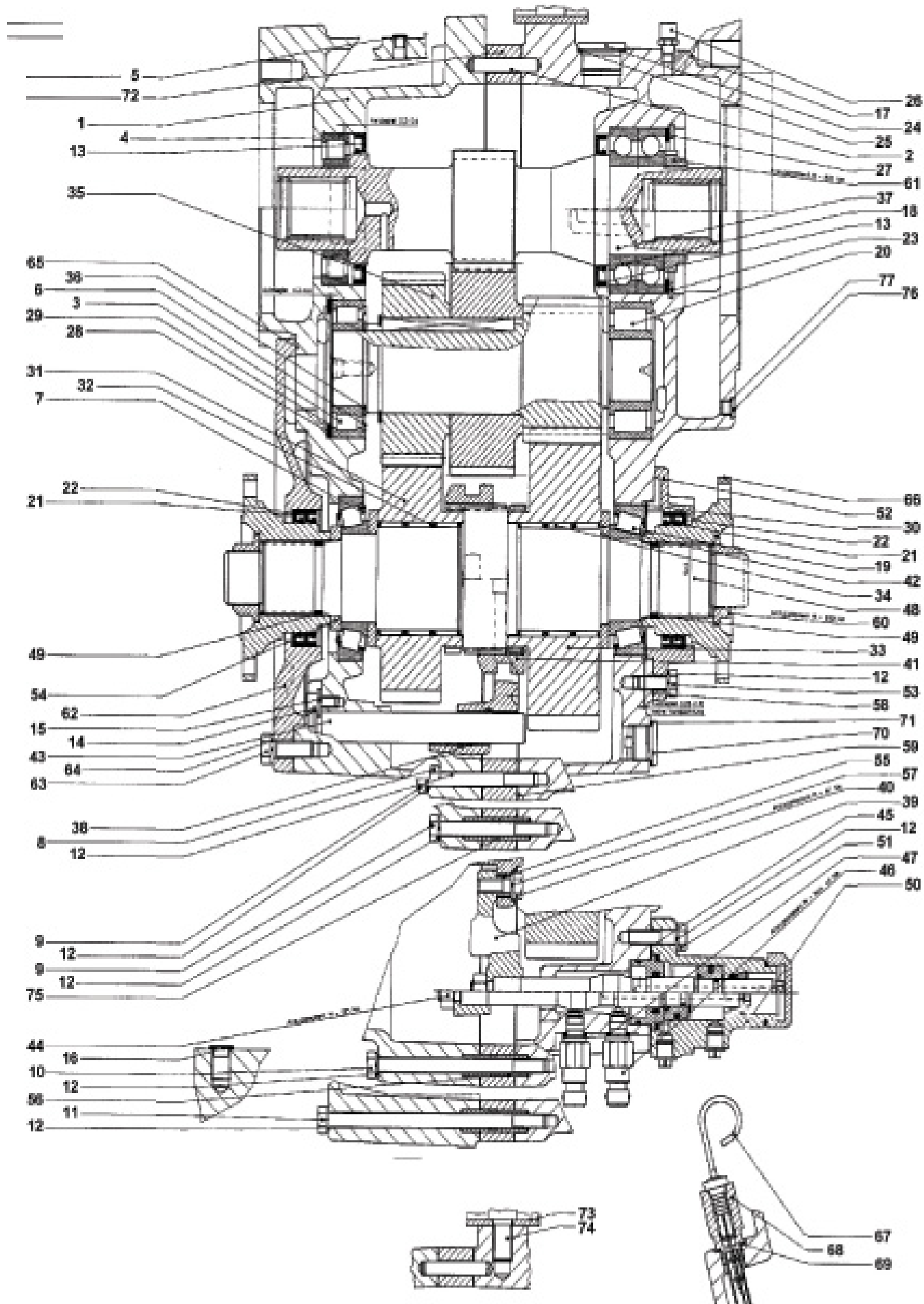


Kit or Assembly - includes all items indented underneath.

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Section AX-5

Axles, Gearboxes & Wheels - *TIM 15 Gearbox* (*Dual Motor - 830/840*)



TIM 15 - DUAL MOTOR GEARBOX

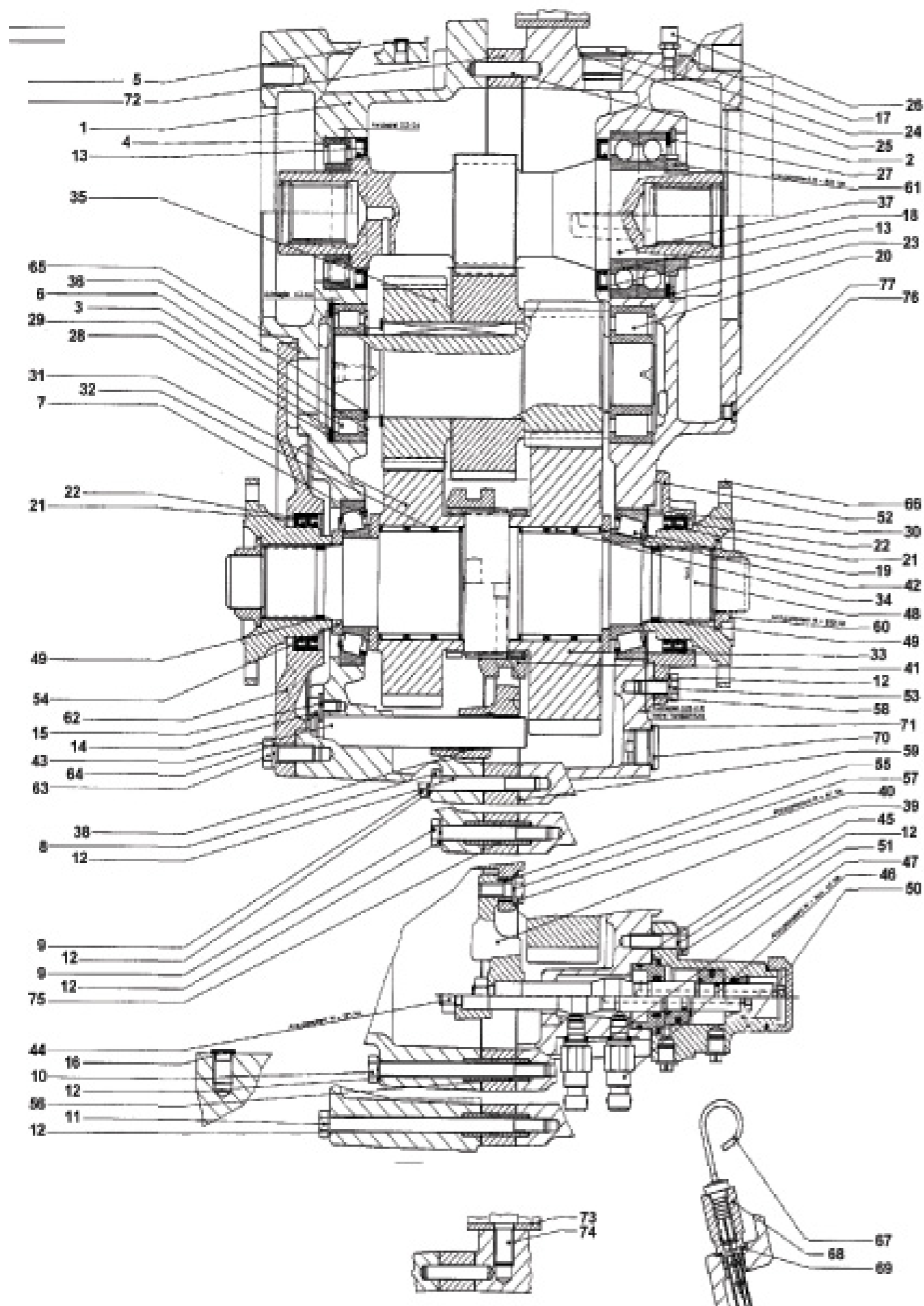
REF	PART #	QTY	DESCRIPTION	SEE PAGE
-	50371-AX		GEARBOX, DUAL MOTOR-2SP - NAF	
1	9801.517	1	Housing	
2	1200.602	2	Straight pin	
3	1130.049	1	Cylinder roller bearing	
4	1130.076	1	Cylinder roller bearing	
5	1250.620	1	Plug	
6	1180.760	1	Nilos-ring	
7	1110.119	1	Tapered roller bearing	
8	1510.212	6	Hexagon screw	
9	1510.213	4	Hexagon screw	
10	1010.225	1	Hexagon screw	
11	1510.215	2	Hexagon screw	
12	23722-AX	13	Locking clip	
13	1160.220	2	Oil seal	
14	1020.113	1	Allen screw	
15	7316.057	2	Washer	
16	1250.626	8	Plug	
17	9801.434	1	Housing	
18	1130.579	2	Tapered-roller bearing	
19	1110.014	1	Tapered-roller bearing	
20	1130.058	1	Cylinder roller bearing	
21	1160.121	2	Oil seal	
22	1160.217	2	Oil seal	
23	1220.802	1	Seeger-ring	
24	1040.180	1	Screw plug	
25	1180.518	1	Seal ring	
26	1250.001	1	Breather	
27	1210.125	1	Supporting washer	
28	1210.119	1	Supporting washer	
29	2108.013	1	Adjusting kit	
30	2108.021	1	Adjusting kit	
31	9804.520	1	Gear	
32	1130.272	2	Needle roller cages	
33	9804.522	1	Gear	
34	1130.272	3	Needle roller cages	
35	2205.156	1	Gear block	
36	1210.121	1	Supporting washer	
37	9805.310	1	Drive pinion	
38	9809.110	1	Shifting lever complete	
39	9809.118	1	Shifting lever complete	
40	1010.219	1	Hexagon screw	
41	9813.149	1	Washer	
42	7315.060	2	Shifting sleeve	
43	9816.119	1	Washer	
44	1060.003	1	Shifting rod	
45	2108.049	1	Hex. nut	
46	54093-AX	2	SWITCH, NAF GEARBOX	
47	2108.003	2	Adjusting kit	
48	7222.080	1	Shaft	
49	1170.065	2	O-ring	
50	9880.098	1	Shift cylinder complete	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 15 - DUAL MOTOR GEARBOX

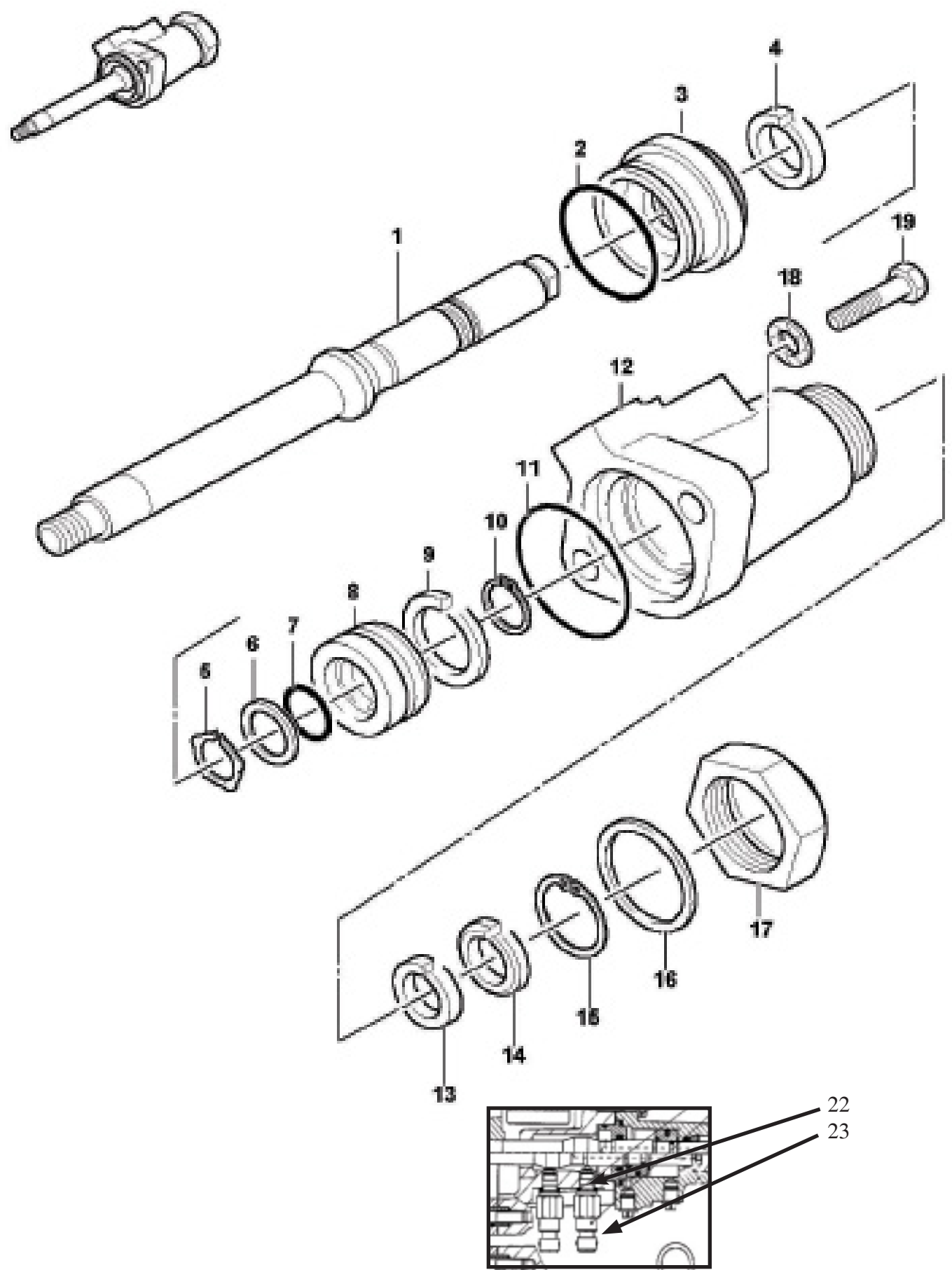
REF	PART #	QTY	DESCRIPTION	SEE PAGE
51	1010.242	2	Hexagon screw	
52	7301.029	1	Cover	
53	1010.201	6	Hexagon screw	
54	7311.163	1		
55	7311.111	1	Spacer bushing	
56	7313.012	12	Shear bushing	
57	7316.048	1	Washer	
58	7319.033	1	Gasket	
59	7319.129	2	Gasket	
60	7329.057	2	Nut	
61	7329.093	1	Nut	
62	7301.141	1	Cover	
63	1010.346	9	Hexagon screw	
64	1190.017	9	Locking clip	
65	7319.030	1	Gasket	
66	52906-AX	2	Cardan flange	
67	7325.046	1	Dipstick	
68	7343.027	1	Tube	
69	1180.508	1	Seal ring	
70	7323.025	1	Screw plug	
71	1180.541	1	Seal ring	
72	9801.389	1		
73	7412.016	1		
74	1020.522	1		
75	7312.084	6		
76	1040.115	1		
77	1180.505	1		
--	7340.018	1	Type plate	
--	1200.110	2	Pin	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



TIM 15 - DUAL MOTOR GEARBOX

REF	PART #	QTY		DESCRIPTION	SEE PAGE
-	52907-AX	1	☐	Complete Shift Cylinder	
1	9816137	1		Shifting rod	
2	1170.005	1		O-ring	
3	7307.097	1		Eccentric ring	
4	50519-AX	1		Shaft seal	
5	50127-AX	1		Seeger-k-ring	
6	7315.090	1		Washer	
7	1170.092	1		O-ring	
8	5252.097	1		Piston	
9	1180.767	1		Shaft seal	
10	1220.053	1		Seeger-ring	
11	1170.013	1		O-ring	
12	5263.086	1		Cylinder	
13	1180.643	1		Shaft seal	
14	7307.080	1		Eccentric ring	
15	50129-AX	1		Seeger-ring	
16	50521-AX	1		Seal Ring	
17	7302.003	1		Cover	
18	1190.015	2		Locking Clip	
19	1010.242	2		Bolt	
20	1020.260	1		Allen Screw	
21	2108.080	1		Shim kit	
21	7311.168	1		Washer	
21	7311.169	1		Washer	
21	7311.170	1		Washer	
22	2108.003	2		Adjusting kit	
23	54093-AX	2		SWITCH, NAF GEARBOX	



See referenced page for component or assembly breakdown.



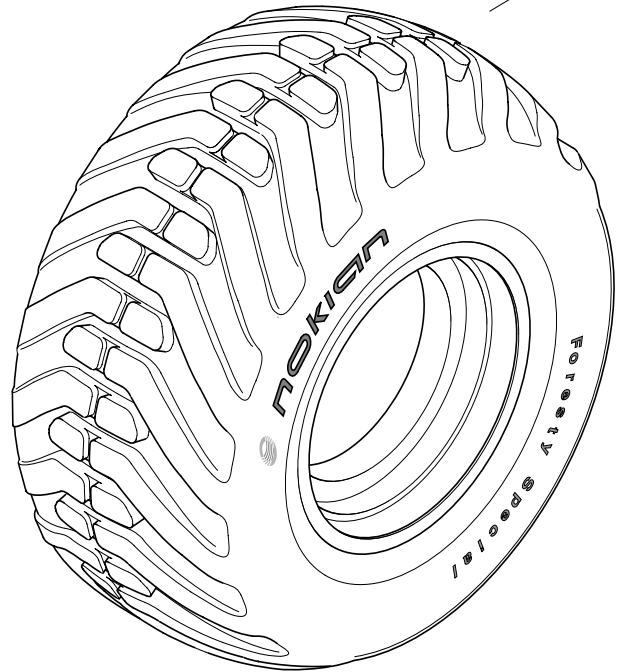
Kit or Assembly - includes all items indented underneath.

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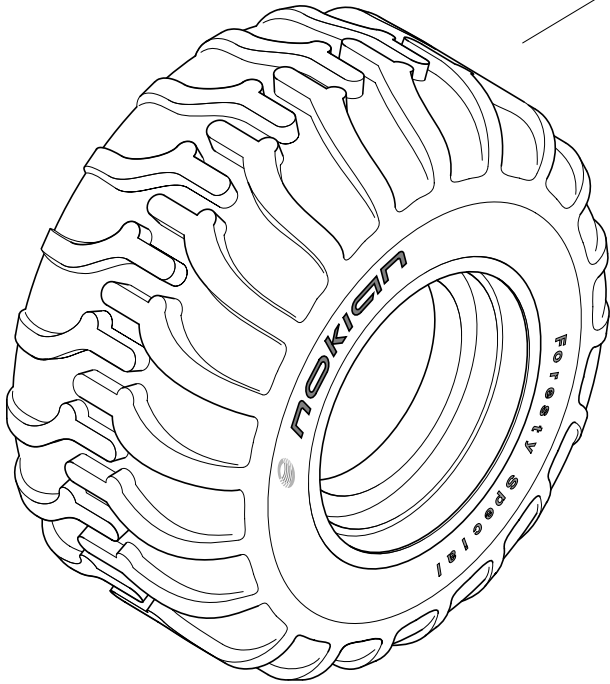
Section AX-7

Axles, Gearboxes & Wheels - Tires and Wheels

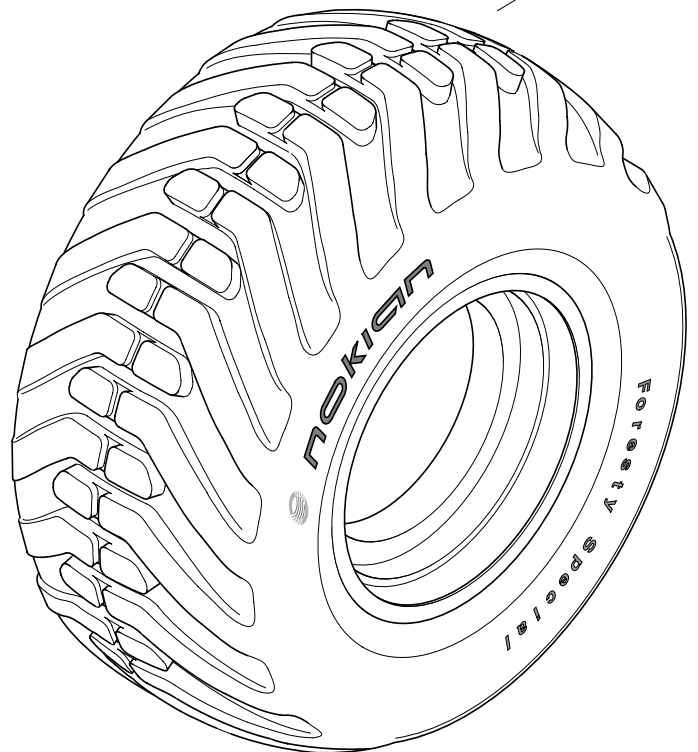
2



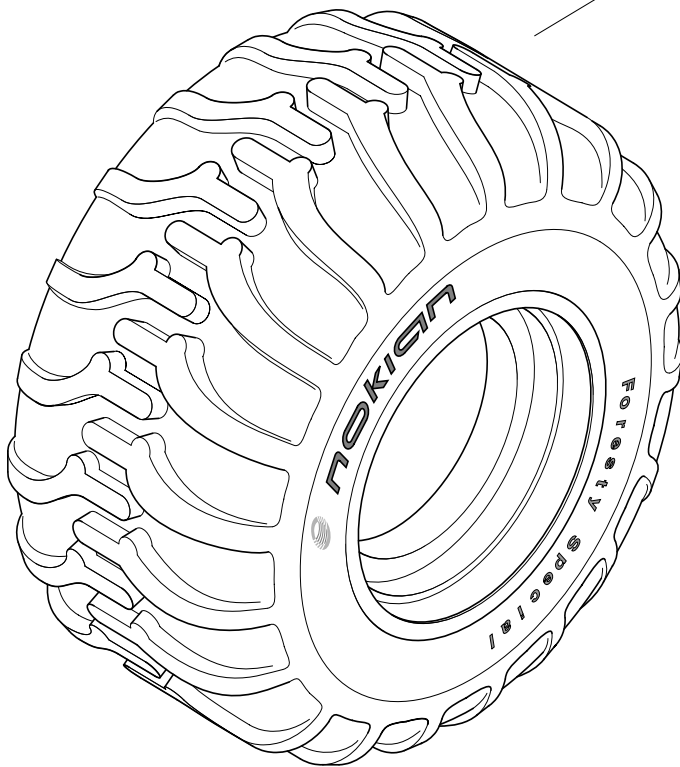
1



4



3



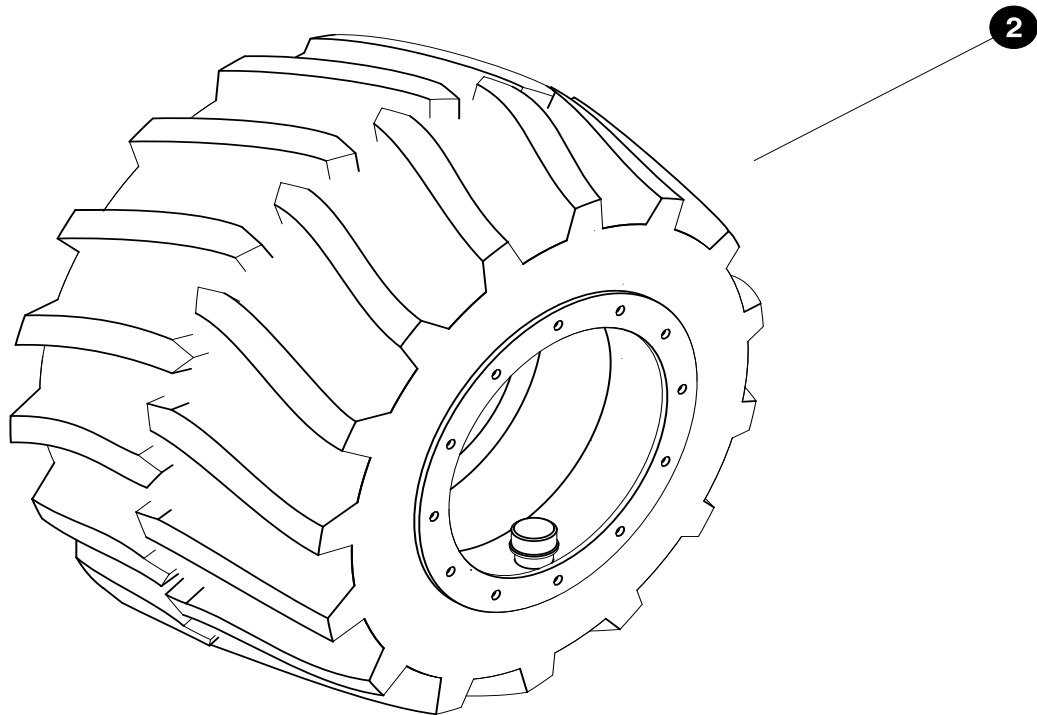
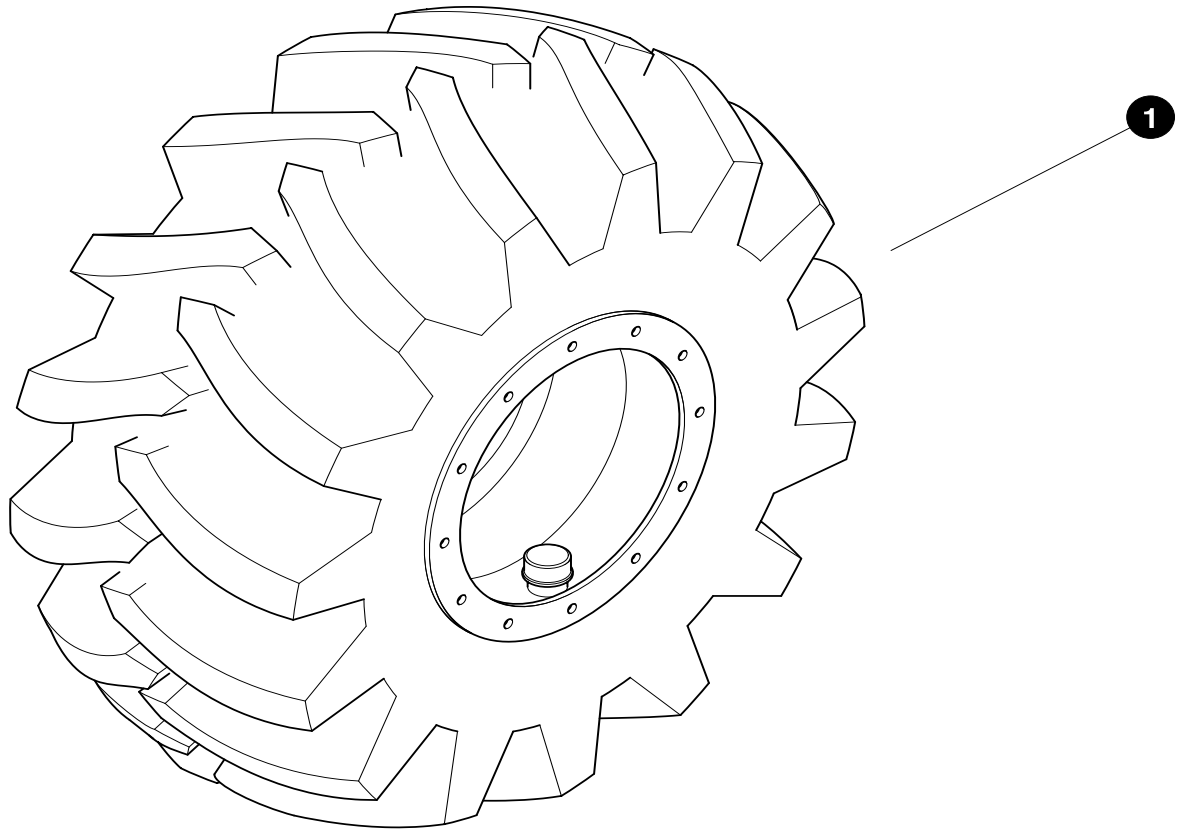
WHEEL ASSEMBLIES (NOKIAN)

REF	PART #	QTY	DESCRIPTION	SEE PAGE
1	20006-AX		☐ WHEEL ASSEMBLY, 700/55-26.5" - LH (<i>Aggressive tread</i>)	
1	20007-AX		☐ WHEEL ASSEMBLY, 700/55-26.5" - RH (<i>Aggressive tread</i>)	
-	---	1	TIRE - 700/55-26.5"/20 ply (<i>Nokian</i>) (T486091)	
-	21137-AX	1	RIM, wheel - 750/55-26.5"	
-	---	1	PLUG, black pipe - valve stem cover (T499985)	
-	---	1	TUBE, tire - 700/55-26.5" (3550167)	
2	19053-AX		☐ WHEEL ASSEMBLY, 700/55-26.5" - LH (<i>Non-aggressive tread</i>)	
2	20005-AX		☐ WHEEL ASSEMBLY, 700/55-26.5" - RH(<i>Non-aggressive tread</i>)	
-	---	1	TIRE - 700/55-26.5"/20 ply (<i>Nokian</i>) (T486095)	
-	21137-AX	1	RIM, wheel - 750/55-26.5"	
-	---	1	PLUG, black pipe - valve stem cover (T499985)	
-	---	1	TUBE, tire - 700/55-26.5" (3550167)	
3	23673-L-AX		☐ WHEEL ASSEMBLY, 750/55-26.5" - LH (<i>Aggressive tread</i>)	
3	23673-R-AX		☐ WHEEL ASSEMBLY, 750/55-26.5" - RH (<i>Aggressive tread</i>)	
-	23674-AX	1	TIRE - 750/55-26.5"/20 ply (<i>Nokian</i>)(<i>Aggressive tread</i>)	
-	21137-AX	1	RIM, wheel - 750/55-26.5"	
-	---	1	PLUG, black pipe - valve stem cover (T499985)	
-	20313-AX	1	TUBE, tire - 750/55-26.5"	
4	20310-L-AX		☐ WHEEL ASSEMBLY, 750/55-26.5" - LH (<i>Non-aggressive tread</i>)	
4	20310-R-AX		☐ WHEEL ASSEMBLY, 750/55-26.5" - RH(<i>Non-aggressive tread</i>)	
-	20312-AX	1	TIRE - 750/55-26.5"/20 ply (<i>Nokian</i>)(<i>Non-aggressive tread</i>)	
-	21137-AX	1	RIM, wheel - 750/55-26.5"	
-	---	1	PLUG, black pipe - valve stem cover (T499985)	
-	20313-AX	1	TUBE, tire - 750/55-26.5"	

☐ 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.



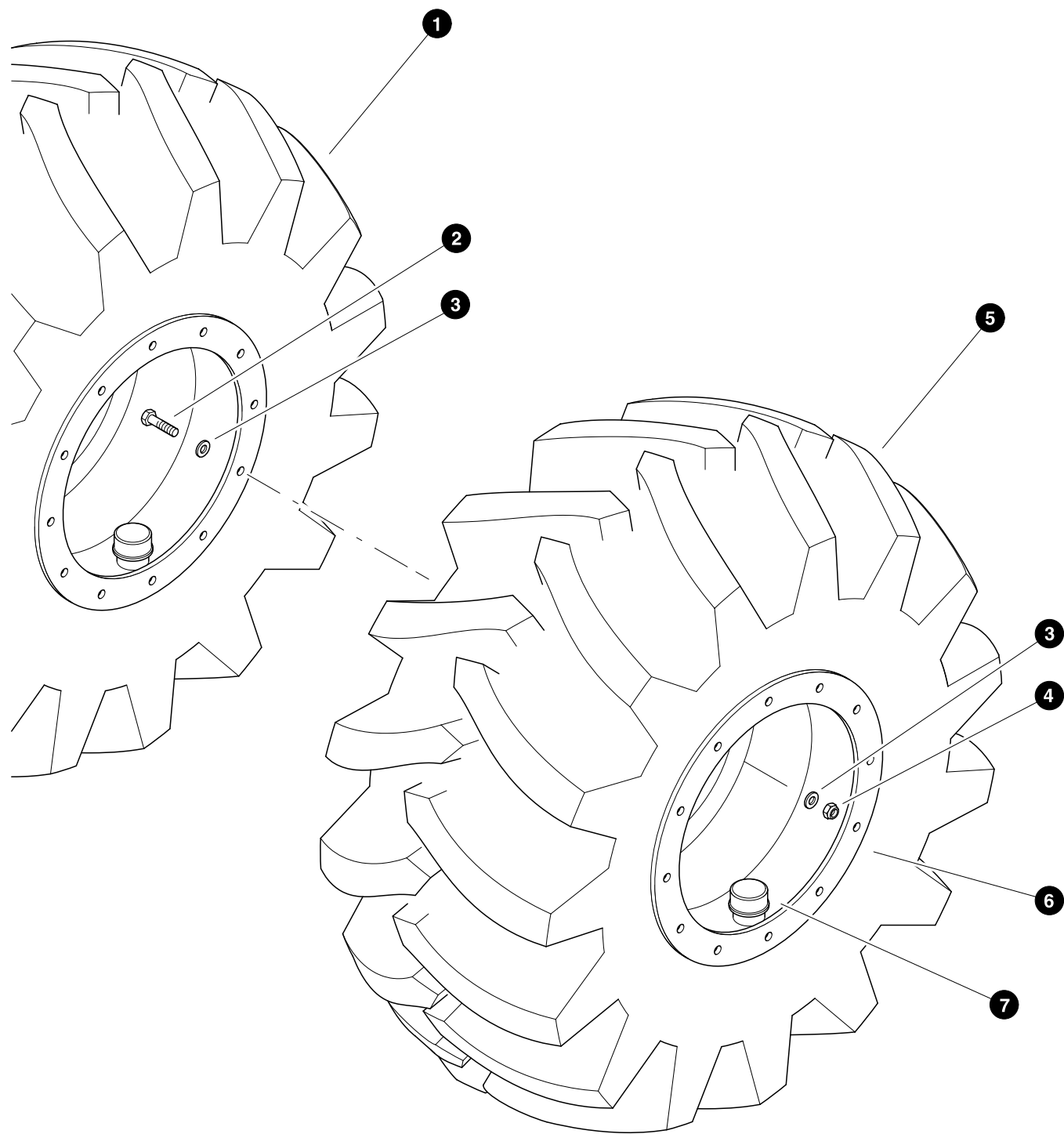
WHEEL ASSEMBLIES (FIRESTONE)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	20915-L-AX		☐	WHEEL ASSEMBLY, 28L-26 - LH <i>(With spacer for dual tires)</i>	
1	20915-R-AX		☐	WHEEL ASSEMBLY, 28L-26 - RH <i>(With spacer for dual tires)</i>	
-	19795-AX	1		TIRE/TUBE - 28L-26/14 ply <i>(Firestone)</i>	
-	22409-AX	1		RIM, wheel - 28L-26 <i>(With spacer for dual tires)</i>	
-	NSS	1		CAP, black pipe - vavle stem cover	
-	19798-AX	1		TUBE, tire - 28L-26	
2	19909-L-AX		☐	WHEEL ASSEMBLY, 54 x 37" - LH (high floation)	
2	19909-R-AX		☐	WHEEL ASSEMBLY, 54 x 37" - RH (high floation)	
-	19791-AX	1		TIRE - 54 x 37"/12 ply <i>(Firestone)</i>	
-	19803-AX	1		RIM, wheel - 54 x 37"	
-	NSS	1		CAP, black pipe - vavle stem cover	

☐ 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.



WHEEL ASSEMBLIES
(Dual Configuration - 28L-26 & 23.1-26 - 16 Wheels Total)
(Firestone dual tires)

REF	PART #	QTY		DESCRIPTION	SEE PAGE
1	REF.			WHEEL ASSEMBLY, 28L-26 - LH	AX-3-2
	REF.			WHEEL ASSEMBLY, 28L-26 - RH	AX-3-2
2	10840-AX	96		BOLT - 3/4" x 3"	
3	15550-AX	192		WASHER, SAE flat - 3/4"	
4	10817-AX	96		NUT, lock - 3/4"	
--	19911-L-AX	4	☐	WHEEL ASSEMBLY, 23.1-26 - LH	
--	19911-R-AX	4	☐	WHEEL ASSEMBLY, 23.1-26 - RH	
5	19800-AX	1		TIRE/TUBE - 23.1-26/14 ply (<i>Firestone</i>)	
6	19920-AX	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.

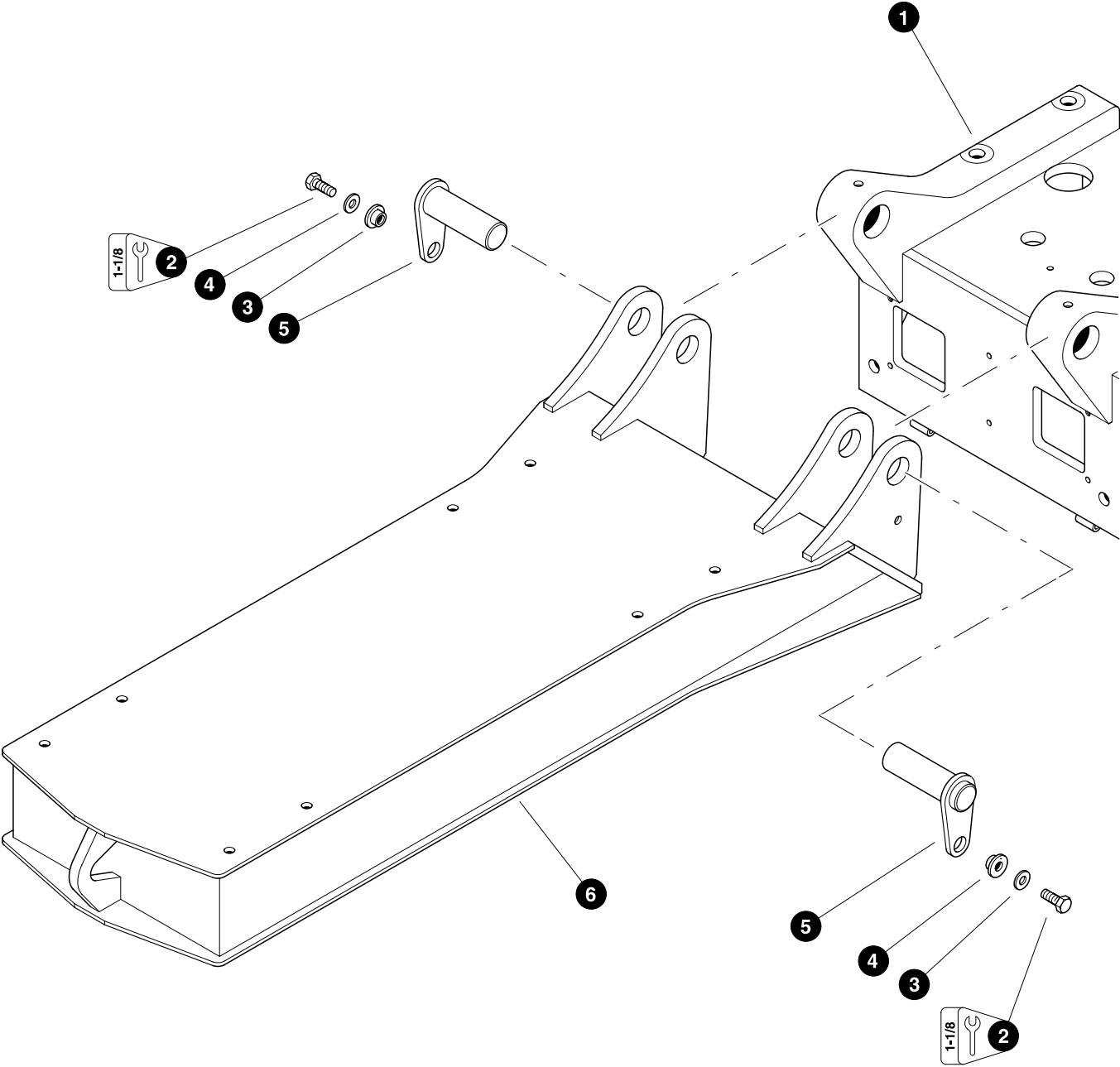
Note:

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.

[illegible]

Section FB-1

Bunks, Log Stakes & Headache Rack - Installation

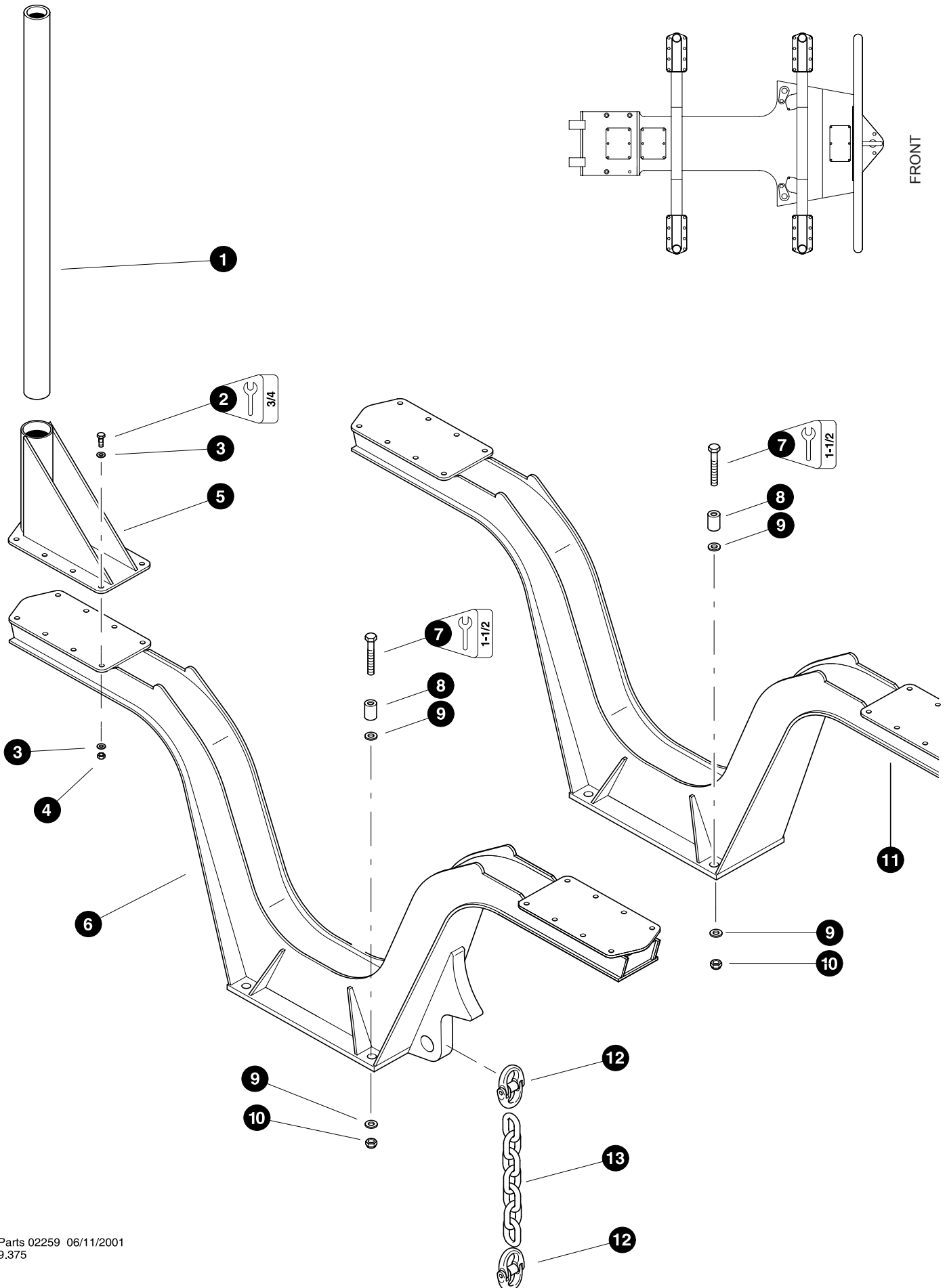


FLOATING BUNK INSTALLATION (Typical)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		REAR FRAME WELDMENT	FR-1
2	15549-FB	2		BOLT - 3/4" x 2"	
3	18570-FB	2		WASHER, pin retaining	
4	15550-FB	2		WASHER, SAE flat - 3/4"	
5	23434-FB	2		PIN, floating bunk - 2-1/2" x 7-7/8"	
6	13481-FB	1		WELDMENT, FLOATING BUNK - FWD (2.5")	



See referenced page for component or assembly breakdown.



Parts 02259 06/11/2001
9,375

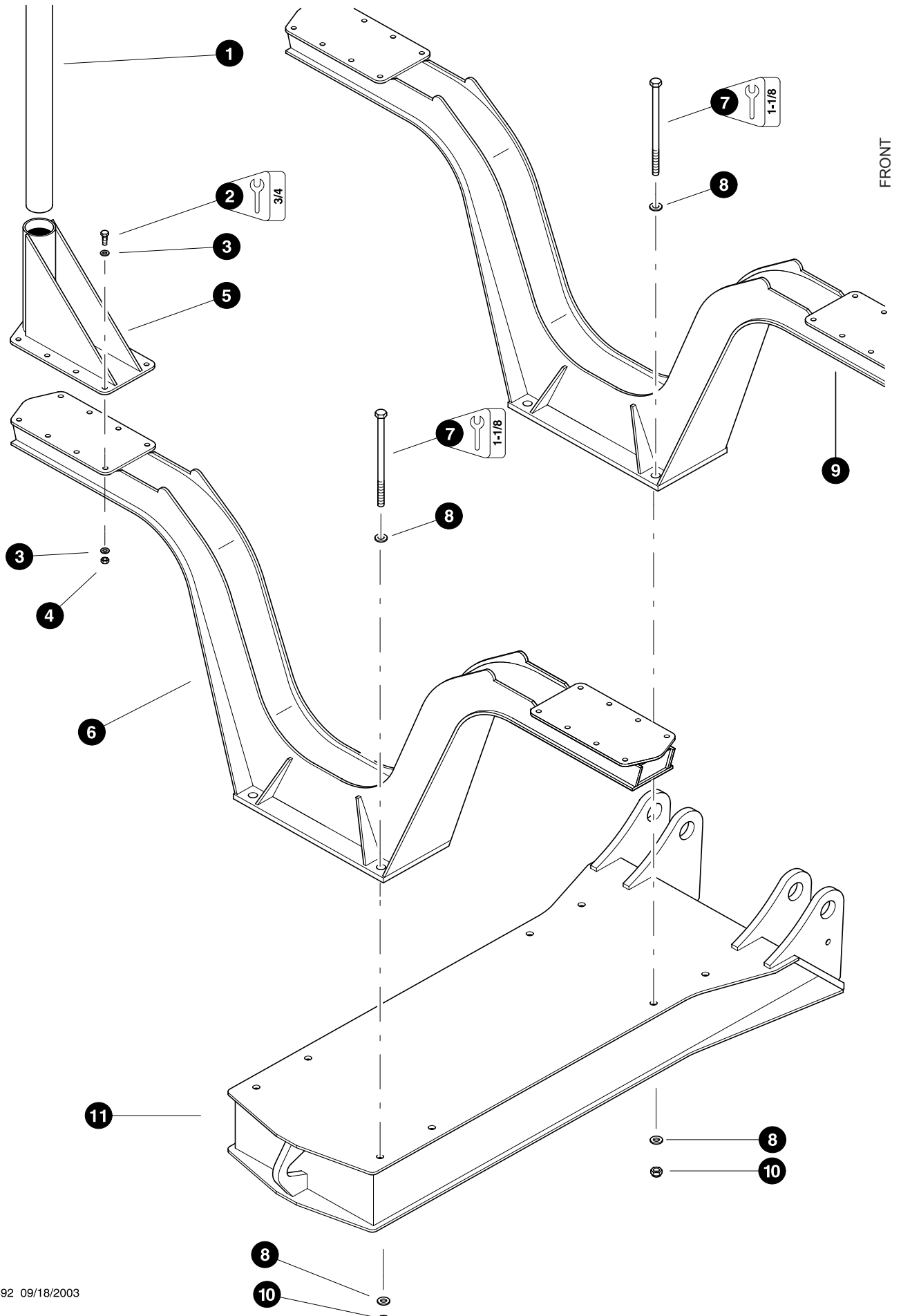
LOG BUNK & STAKE INSTALLATION (Typical - Forwarder)

(Rear Frame Installation)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	21013-FB	4	TUBE, log stake	
2	10736-FB	24	BOLT - 1/2" x 2"	
3	15534-FB	48	WASHER, SAE flat - 1/2"	
4	10815-FB	24	NUT, lock - 1/2"	
5	80398-FB	4	WELDMENT, log stake pocket	
6	50982-FB	1	BUNK, log bunk w/axle stops and 2" riser - <i>(Used on machines with Standard 700/50x26.5 or Optional 750/50x26.5 wheels)</i>	
7	50263-FB	8	BOLT - 1"X 5.5" <i>(Used when mounting log bunk to the rear frame)</i>	
8	12463-FB	8	SPACER, 1"	
9	18532-FB	16	WASHER, SAE flat - 1"	
10	18253-FB	16	NUT, lock - 1"	
11	50981-FB	1	BUNK, log bunk w/ 2" riser - <i>(Used on machines with Standard 700/50x26.5 or Optional 750/50x26.5 wheels)</i>	
12	24416-FB	4	LINK, connecting - 3/4"	
13	24442-FB	2	CHAIN, axle stop - 3/4" <i>(7 Links)</i>	

Note:

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



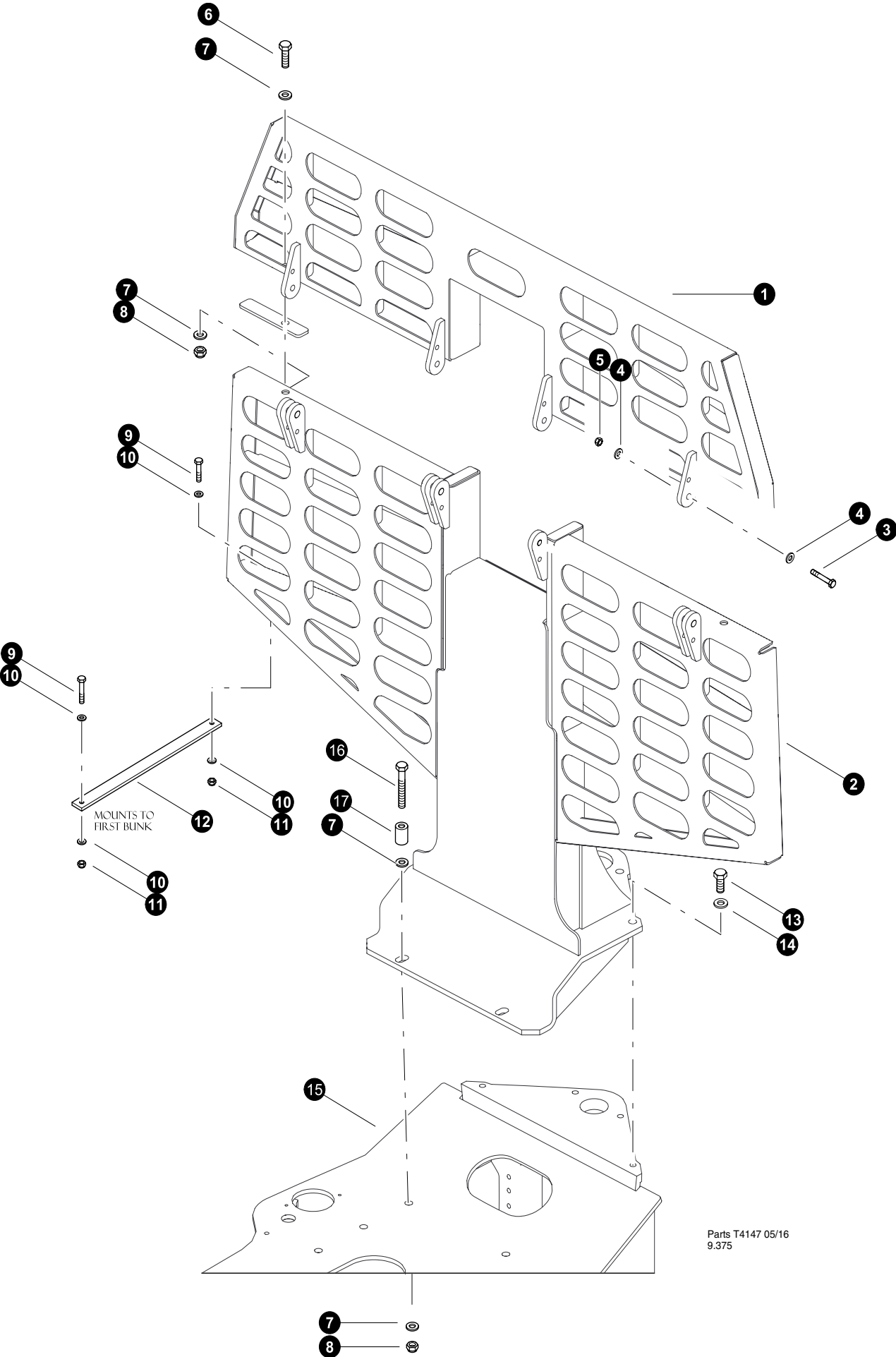
LOG BUNK & STAKE INSTALLATION (Typical - Forwarder)

(Floating Bunk Installation)

REF	PART #	QTY	DESCRIPTION	SEE SECTION
1	21013-FB	4	TUBE, log stake	
2	10736-FB	24	BOLT - 1/2" x 2"	
3	15534-FB	48	WASHER, SAE flat - 1/2"	
4	10815-FB	24	NUT, lock - 1/2"	
5	80398-FB	4	WELDMENT, log stake pocket	
6	50981-FB	3	BUNK, log bunk - 28" <i>(Used on machines with Standard 700/50x26.5 or Optional 750/50x26.5 wheels)</i>	
7	20905-FB	8	BOLT - 3/4"X 12" <i>(Used when mounting log bunk to the floating bunk)</i>	
8	15550-FB	16	WASHER, SAE flat - 3/4"	
9	80742-FB	2	BUNK, log bunk - <i>(Used on machines with Standard 700/50x26.5 or Optional 750/50x26.5 wheels)</i>	
10	10817-FB	16	NUT, lock - 3/4"	
11	REF.	1	 FLOATING BUNK	FB-1



See referenced page for component or assembly breakdown.



Parts T4147 05/16
9.375

HEADACHE RACK INSTALLATION

(Typical - Forwarder)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	52238-FB	1	☐	HEADACHE RACK ASSY. - TF-830 STRAIGHT	
1	52236-FB	1		HEADACHE RACK BASE-REPAIR PART - STRT	
2	52237-FB	1		HEADACHE RACK TOP-REPAIR PART	
3	10841-FB	4		BOLT - .75" X 3.5"	
4	15550-FB	8		WASHER, SAE FLAT - .75"	
5	10817-FB	4		NUT, LOCK - 3/4	
6	15552-FB	2		BOLT - 1" x 2-1/2"	
7	18532-FB	8		WASHER, SAE flat - 1"	
8	18253-FB	2		NUT, LOCK - 1"	
9	15526-FB	4		BOLT - .625" X 2"	
10	10771-FB	8		WASHER, SAE FLAT - .625"	
11	10816-FB	4		NUT, LOCK - .625"	
12	51989-FB	2		BAR, STABILIZER - LOG RACK 830 SWEPT BK	
13	15552-FB	4		BOLT - 1" x 2-1/2"	
14	15579-FB	4		WASHER, FLAT 1"	
15	REF.	1	☐	REAR FRAME	FR-1
16	50263-FB	8		BOLT - 1"X 5.5"	
17	12463-FB	8		SPACER, 1"	

☐ Kit or Assembly - includes all items indented underneath.

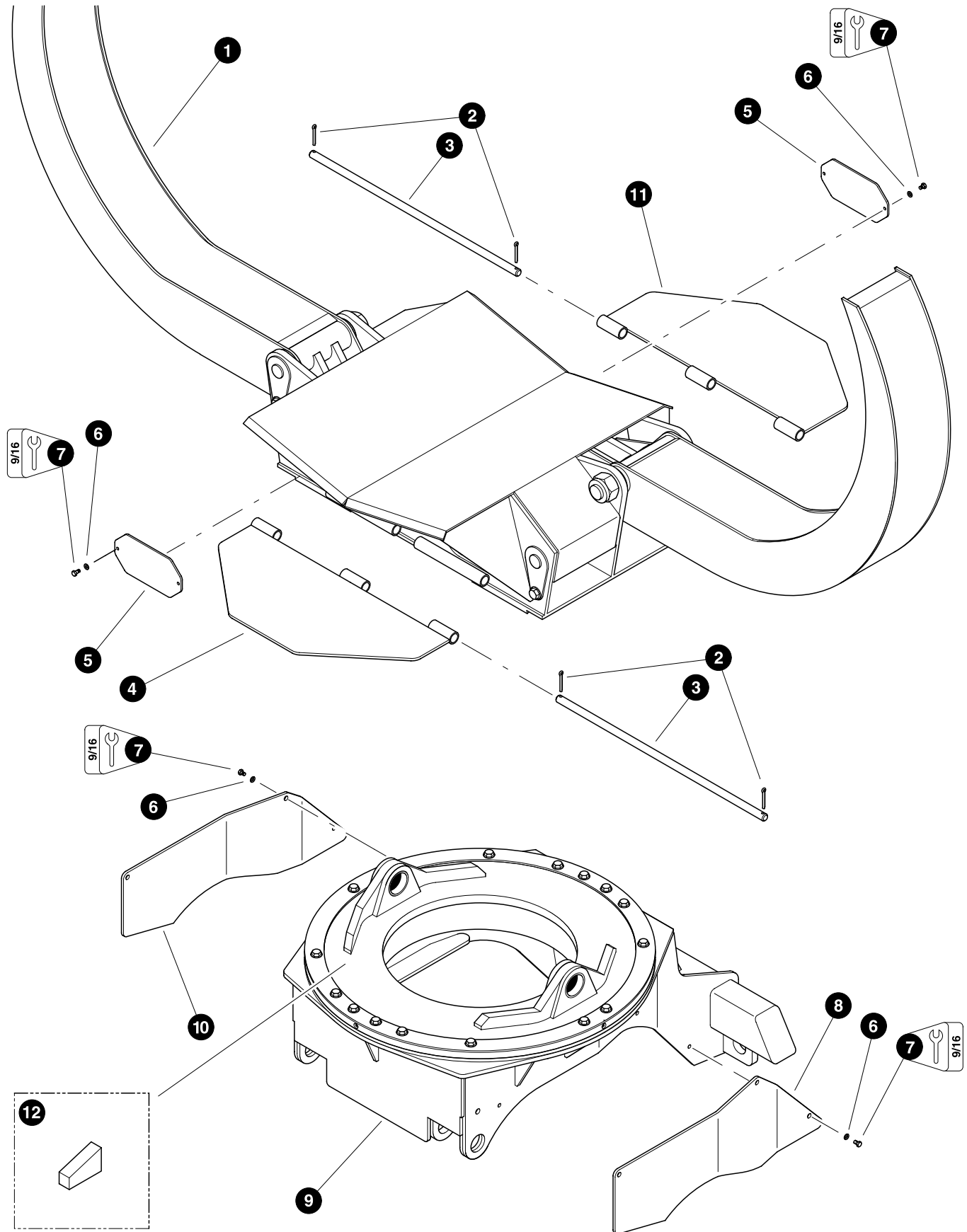
☐ See referenced page for component or assembly breakdown.

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Section CB-1

***Clam Bunk -
Structural***



Parts 01916 11/27/2000
9.375

CLAM BUNK ACCESS COVERS & GUARDS

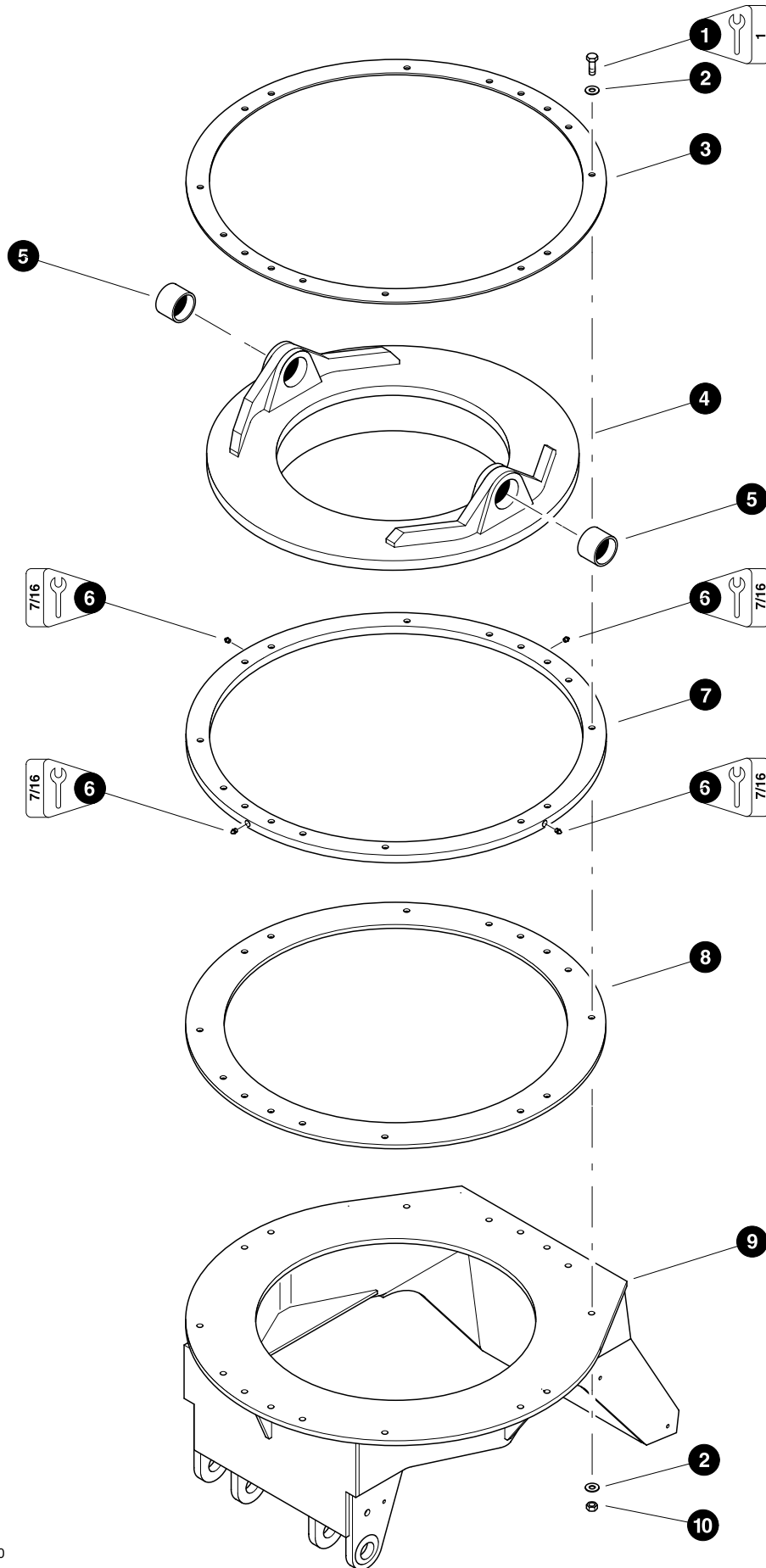
REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	23992-CB	1		CLAM BUNK COMPLETE (2.5" Pins)	
1	REF.	1		CLAM BUNK UPPER COMPONENTS	CB-1
2	20249-CB	4		PIN, cotter - 1/4" x 2"	
3	13390-CB	2		SHAFT, hinge cover	
4	13385-CB	1		COVER, hinge	
5	13415-CB	4		COVER, access - arm mounting base	
6	15528-CB	14		WASHER, SAE flat - 3/8"	
7	11707-CB	14		BOLT - 3/8" x 1"	
8	13488-CB	1		COVER, access - clam mounting base - RH	
9	REF.	1		CLAM BUNK LOWER BASE COMPONENTS	CB-1
10	13489-CB	1		COVER, access - clam mounting base - LH	
11	13416-CB	1		COVER, hinged - Front	



See referenced page for component breakdown.



Kit or Assembly - includes all items indented underneath.

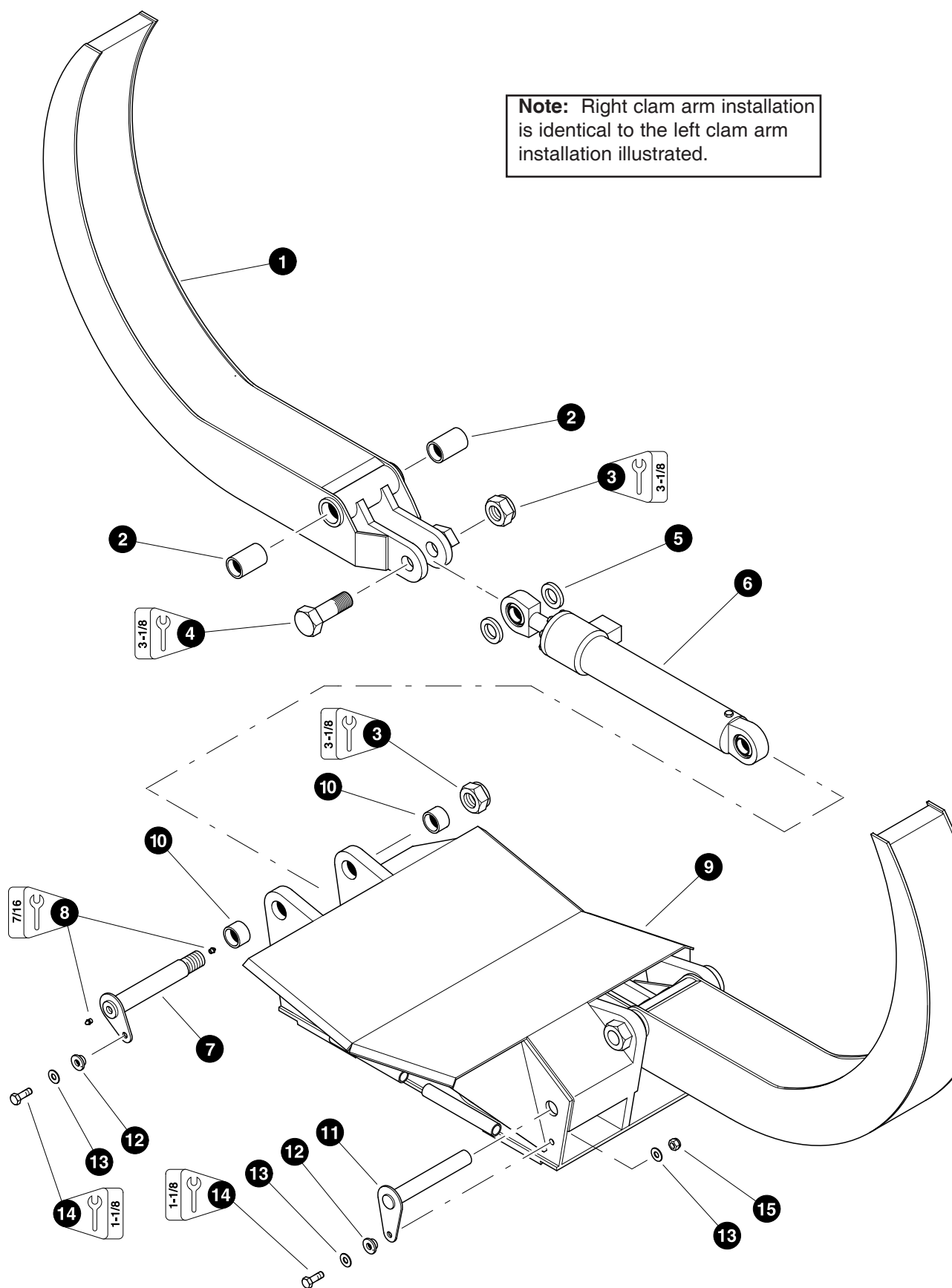


Parts 01909 11/22/2000
9.375

CLAM BUNK LOWER BASE COMPONENTS

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	10773-CB	16		BOLT - 5/8" x 3-1/2"	
2	10771-CB	32		WASHER, SAE flat - 5/8"	
3	13380-CB	1		RING, clam pivot hold-down	
4	13465-CB	1	☐	WELDMENT, clam pivot	
5	12397-CB	2		BUSHING - 3" x 2-1/2"	
6	10704-CB	4		FITTING, grease	
7	13463-CB	1		RING, clam pivot spacer	
8	13366-CB	1		RING, clam pivot wear	
9	13480-CB	1		WELDMENT, clam mounting base	
10	10816-CB	16		NUT, lock - 5/8"	

☐ Kit or Assembly - includes all items indented underneath.



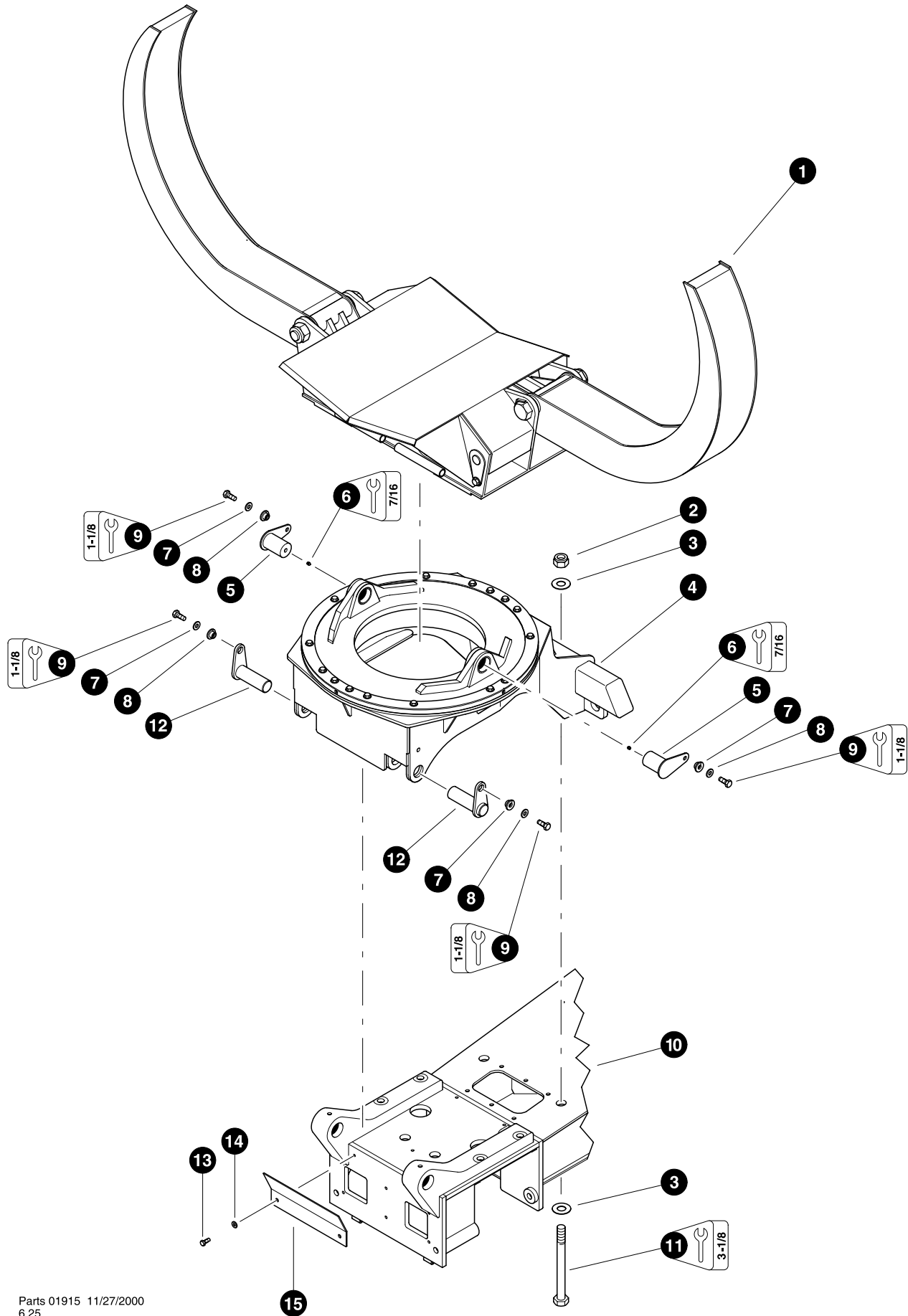
Parts 02016 12/12/2001
9.375

CLAM BUNK ARM INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	13535-CB	2	☐	WELDMENT, clam bunk arm	
2	11704-CB	2		BUSHING - 2-1/2" x 4-1/4"	
3	10728-CB	4		NUT, nylock - 2"	
4	20251-CB	2		PIN, clam cylinder rod - 2" x 7"	
5	20758-CB	4		SPACER	
6	REF.	2	☐	CLAM BUNK CYLINDER.	CB-2
7	13533-CB	2	☐	PIN, clam arm - 2-1/2" x 18"	
8	10704-CB	4		FITTING, grease	
9	13531-CB	1	☐	WELDMENT, clam arm base	
10	13532-CB	4		BUSHING - 2" x 1-3/4"	
11	19542-CB	2		PIN, clam cylinder base	
12	18570-CB	4		WASHER, pin retaining	
13	15550-CB	6		WASHER, SAE flat - 3/4"	
14	10775-CB	4		BOLT - 3/4" x 2-1/2"	
15	10817-CB	2		NUT, lock - 3/4"	

☐ Kit or Assembly - includes all items indented underneath.

☐ See referenced page for component breakdown.



Parts 01915 11/27/2000
6.25

CLAM BUNK UNIT INSTALLATION

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		CLAM BUNK UPPER COMPONENTS	CB-1
2	19614-CB	2		NUT, lock - 1-1/2"	
3	19613-CB	4		WASHER, flat - 1-1/2"	
4	REF.	1		CLAM BUNK LOWER BASE COMPONENTS	CB-1
5	19544-CB	2		PIN, clam bunk pivot	
6	10704-CB	1		FITTING, grease	
7	18570-CB	4		WASHER, pin retaining	
8	15550-CB	4		WASHER, SAE flat - 3/4"	
9	10549-CB	4		BOLT - 3/4" x 2"	
10	REF.	1		REAR FRAME WELDMENT	
11	20415-CB	2		BOLT - 1-1/2" x 19"	
12	23434-CB	2		PIN, floating bunk - 2-1/2" x 7-7/8"	
13	10783-CB	2		BOLT, 1/2" x 1"	
14	15534-CB	2		WASHER, 1/2" sae	
15	13487-CB	1		COVER, Rear Clam Bunk	



See referenced page for component breakdown.

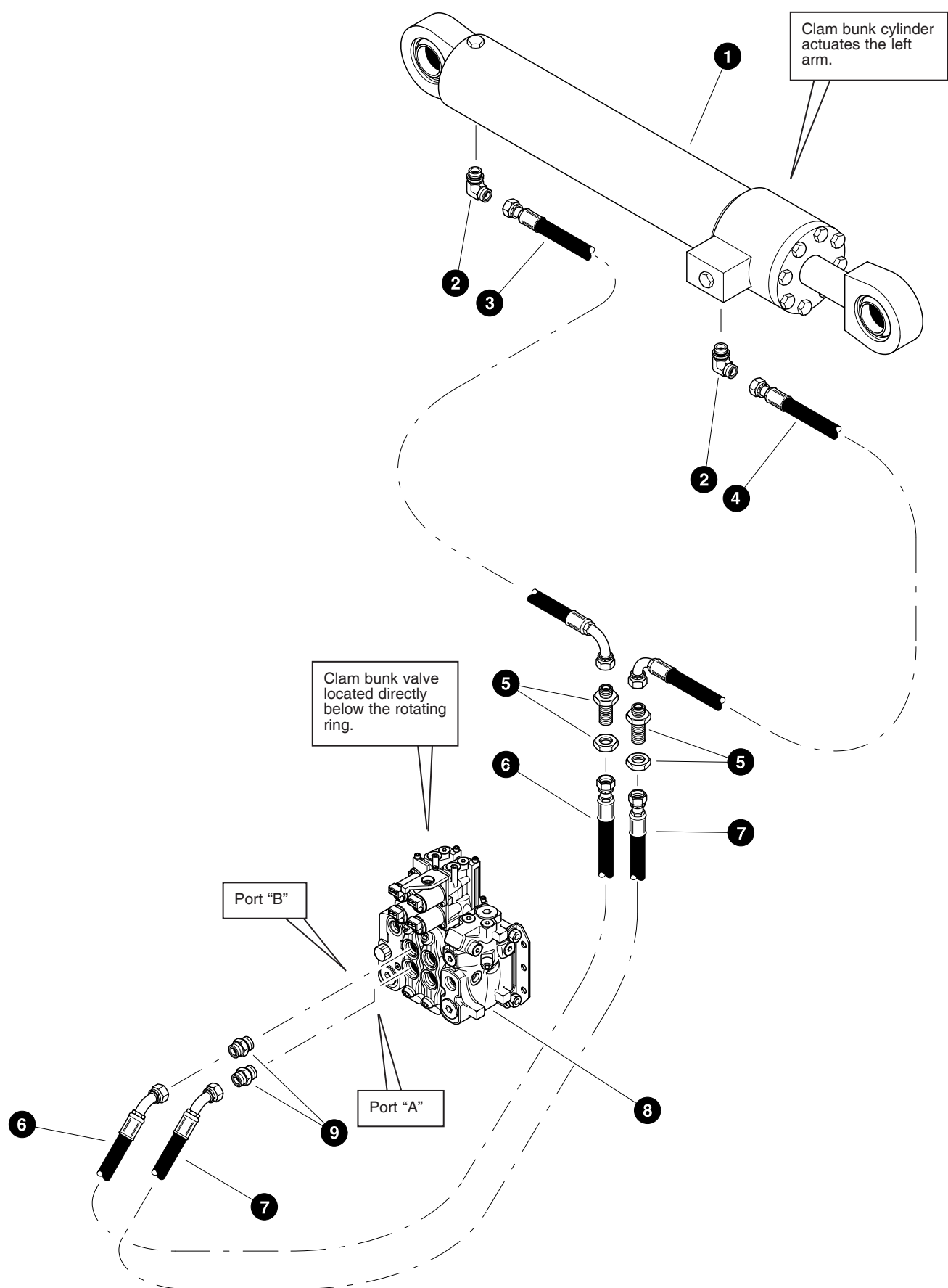


Kit or Assembly - includes all items indented underneath.

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Section CB-2

Clam Bunk - Hydraulic Circuits & Components



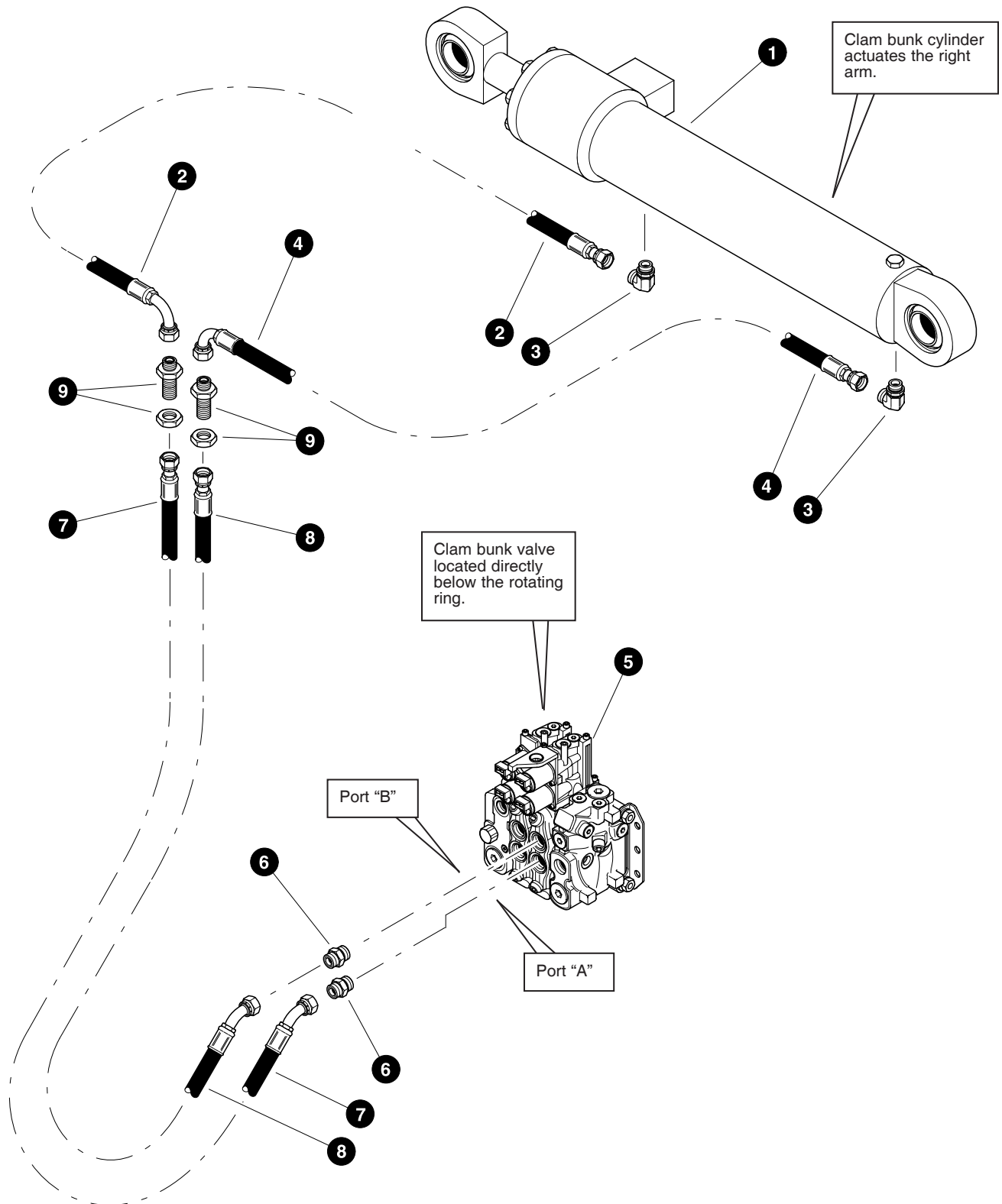
CLAM BUNK ARM LINES

(Clam Bunk Valve To Left Clam Bunk Cylinder)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		CLAM BUNK CYLINDER.	CB-2
2	16360-CB	2		ELBOW, 90° - FF1868T-0808S	
3	17483-CB	1		HOSE ASSEMBLY - 4019-08-080S-0809 (<i>Clam bunk cylinder base port to left front bulkhead fitting</i>)	
4	20195-CB	1		HOSE ASSEMBLY - 4031-08-080S-0809 (<i>Clam bunk cylinder rod port to right front bulkhead fitting</i>)	
5	20196-CB	2		CONNECTOR, straight bulkhead - FF1994T-0808S	
6	-CB	1		HOSE ASSEMBLY - 4045 -08-080S-0809 (<i>Clam bunk cylinder rod port to right front bulkhead fitting</i>)	
7	-CB	1		HOSE ASSEMBLY - 4046 -08-080S-0809 (<i>Clam bunk cylinder rod port to right front bulkhead fitting</i>)	
8	REF.	1		CLAM BUNK CONTROL VALVE.	CB-3
9	15115-CB	2		CONNECTOR, straight - FF1852T-0810S	



See referenced page for component or assembly breakdown.



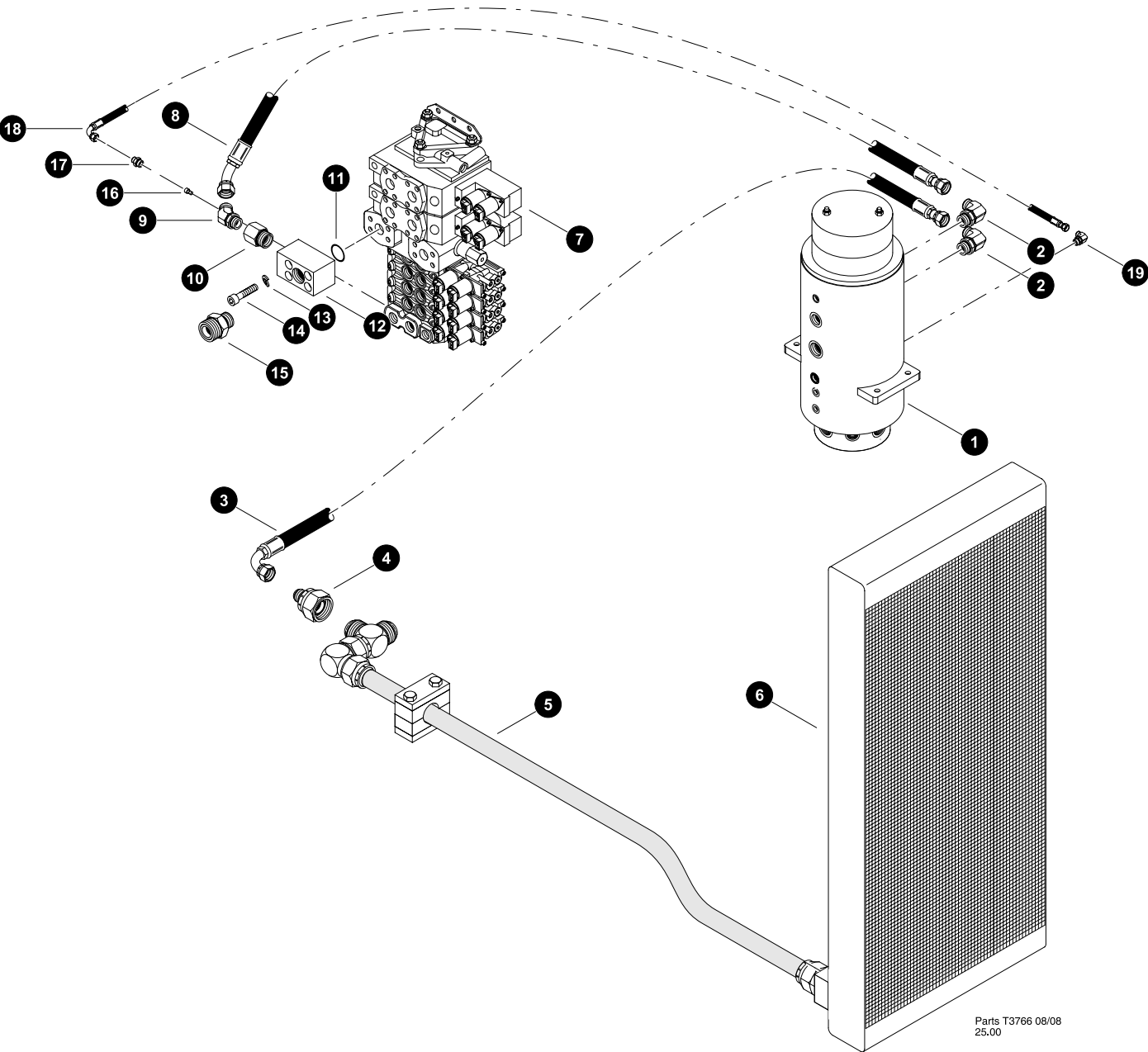
CLAM BUNK ARM LINES

(Clam Bunk Valve To Right Clam Bunk Cylinder)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		CLAM BUNK CYLINDER.	CB-2
2	16360-CB	2		ELBOW, 90° - FF1868T-0808S	
3	20195-CB	1		HOSE ASSEMBLY - 4031-08-080S-0809 (<i>Clam bunk cylinder rod port to left rear bulkhead fitting</i>)	
4	17483-CB	1		HOSE ASSEMBLY - 4019-08-080S-0809 (<i>Clam bunk cylinder base port to right rear bulkhead fitting</i>)	
5	REF.	1		CLAM BUNK CONTROL VALVE.	CB-3
6	15115-CB	2		CONNECTOR, straight - FF1852T-0810S	
7	-CB	1		HOSE ASSEMBLY - 4048 -08-080S-0809 (<i>Clam bunk cylinder rod port to right front bulkhead fitting</i>)	
8	-CB	1		HOSE ASSEMBLY - 4047 -08-080S-0809 (<i>Clam bunk cylinder rod port to right front bulkhead fitting</i>)	
9	20196-CB	2		CONNECTOR, straight bulkhead - FF1994T-0808S	



See referenced page for component or assembly breakdown.



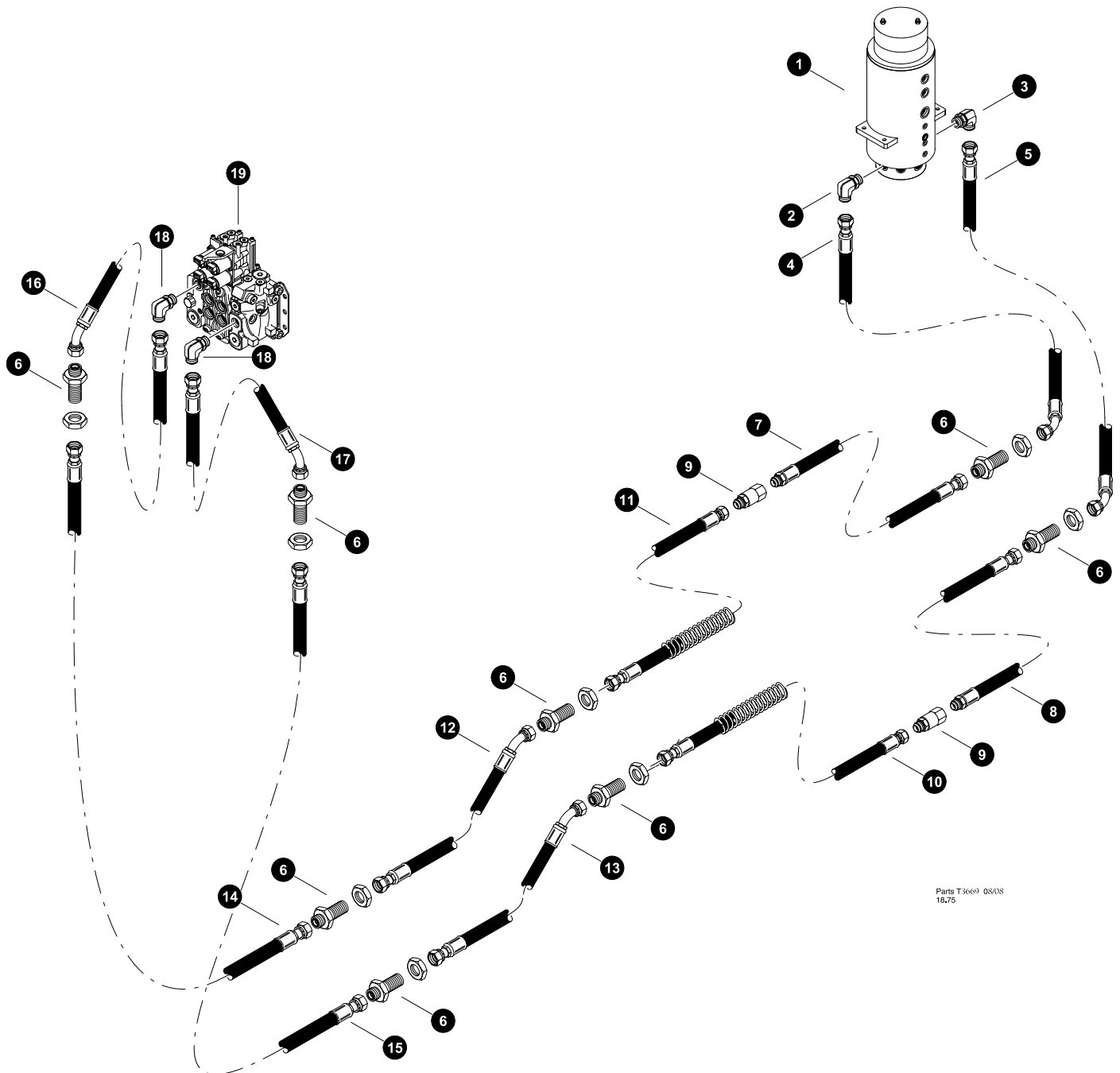
CLAM BUNK VALVE PRESSURE AND TANK

(Rotory Manifold to LS, Pressure and Tank)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ROTORY MANIFOLD	UP-1
2	17688-CB	1		ELBOW, 90 - FF1868T-1212S	
3	-CB	1		HOSE ASSEMBLY - 2046 12-12OS-12J9 (port 9 to return tee)	
4	53180-CB	1		FITTING, REDUCER TUBE END - 24-12	
5	REF	1		RETURN TUBE	LH-2
6	REF	1		HYDRAULIC OIL COOLER	UP-3
7	REF	1		VOAC CONTROL VALVE	LH-1
8	-CB	1		HOSE ASSEMBLY - 2042 12-12OS-12O4 (port 11 to valve pressure block)	
9	19127-CB	1		ELBOW, 45 - FF2068T-1212S	
10	25040-CB	1		BUSHING, REDUCER - 6410-16-12	
11	15377-LH	1		O-RING - 1"	
12	42113-CB	1		MANIFOLD, K220 INLET - 2 PORT 1" CODE 62	
13	-	4		WASHER, lock	
14	17710-LH	4		BOLT, ALLEN HEAD - 12MM-1.75P X 70MM	
15	17063-LH	1		CONNECTOR, STR - FF1852T-2016S	
16	-CB	1		BOLT, ALLEN HEAD - 5MM-0.8P X 20MM	
17	15124-HR	1		CONNECTOR, STR. - 0406	
18	-CB	1		HOSE ASSEMBLY - 2035 04-04OS-04O9 (port 5 to LSP on Valve)	

 Kit or Assembly - includes all items indented underneath.

 See referenced page for component or assembly breakdown.



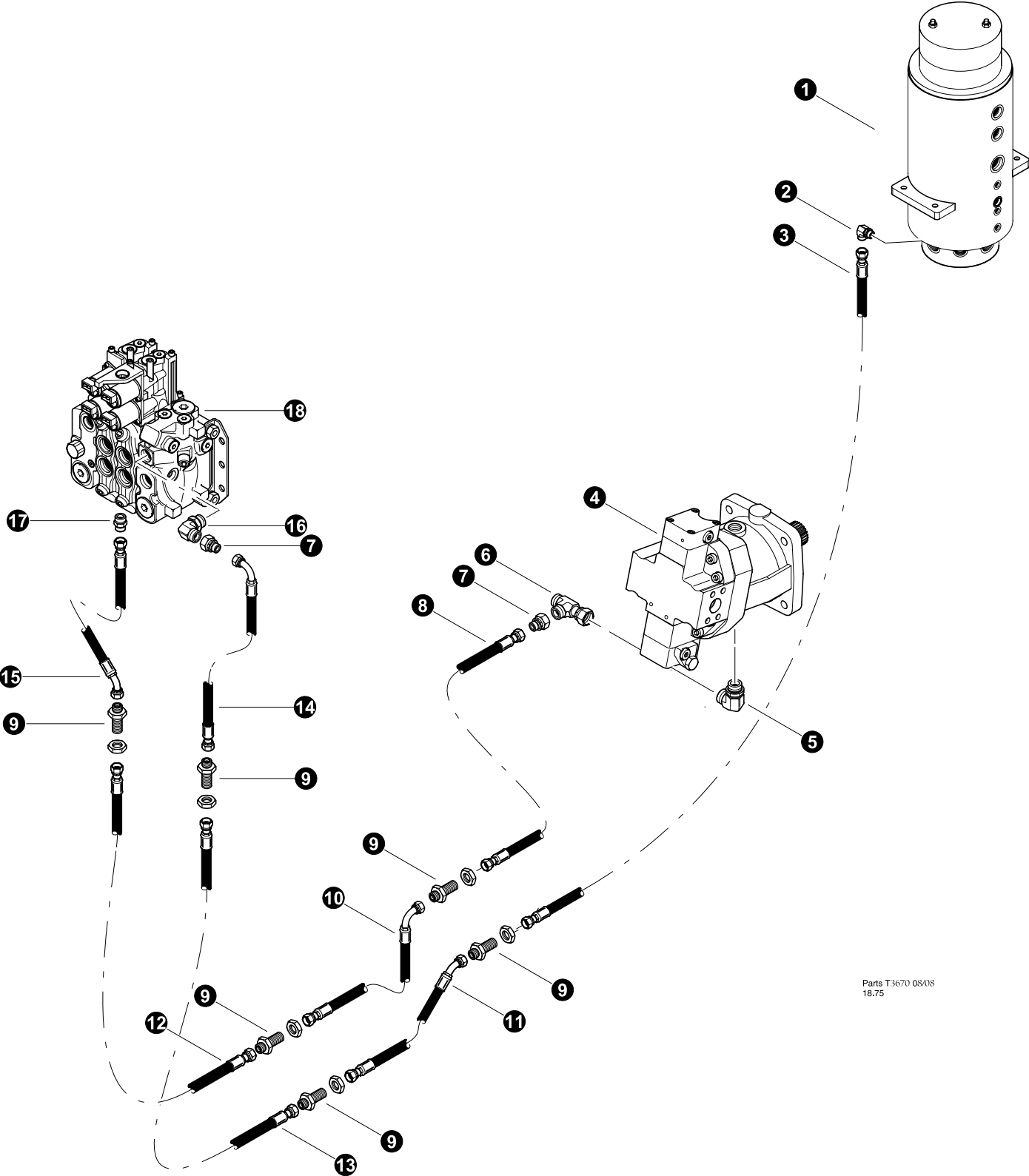
Parts T3069 08/08
18,75

CLAM BUNK VALVE PRESSURE AND TANK (Clam Bunk Valve To Rotary Manifold)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ROTORY MANIFOLD	UP-1
2	17688-CB	1		ELBOW, 90 - FF1868T-1212S	
3	17688-CB	1		ELBOW, 90 - FF1868T-1212S	
4	-CB	1		HOSE ASSEMBLY - 4037-12-120S-1204 (<i>rotory manifold #9 to bulkhead</i>)	
5	-CB	1		HOSE ASSEMBLY - 4031-12-120S-1204 (<i>rotory manifold #11 to bulkhead</i>)	
6	17009-CB	8		CONNECTOR, STR BULKHEAD - 2700-12	
7	-CB	1		HOSE ASSEMBLY - 4045.5-12-120S-12MJ (<i>swivel to bulkhead</i>)	
8	-CB	1		HOSE ASSEMBLY - 4045.5-12-120S-12MJ (<i>swivel to bulkhead</i>)	
9	18782-CB	2		SWIVEL, INLINE STR LS2406-1212	
10	-CB	1		HOSE ASSEMBLY - 4044.5-12-120S-12JS (<i>swivel to bulkhead</i>)	
11	-CB	1		HOSE ASSEMBLY - 4044.5-12-120S-12JS (<i>swivel to bulkhead</i>)	
12	-CB	1		HOSE ASSEMBLY - 4045-12-120S-12O4 (<i>bulkhead to bulkhead</i>)	
13	-CB	1		HOSE ASSEMBLY - 4045-12-120S-12O4 (<i>bulkhead to bulkhead</i>)	
14	-CB	1		HOSE ASSEMBLY - 4045.5-12-120S-12OS (<i>bulkhead to bulkhead</i>)	
15	-CB	1		HOSE ASSEMBLY - 4045.5-12-120S-12OS (<i>bulkhead to bulkhead</i>)	
16	-CB	1		HOSE ASSEMBLY - 4045.5-12-120S-12O4 (<i>valve pressure to bulkhead</i>)	
17	-CB	1		HOSE ASSEMBLY - 4045.5-12-120S-12O4 (<i>valve tank to bulkhead</i>)	
18	17688-CB	2		ELBOW, 90 - FF1868T-1212S	
19	REF.	1		CLAM BUNK CONTROL VALVE.	CB-3

 Kit or Assembly - includes all items indented underneath.

 See referenced page for component or assembly breakdown.



Parts T3670 08/08
18.75

CLAM BUNK VALVE LS and Drain

(Clam Bunk Valve To Rotary Manifold)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF.	1		ROTORY MANIFOLD	UP-1
2	16540-CB	1		ELBOW, 90 - FF1868T-0404S	
3	-CB	1		HOSE ASSEMBLY - 2134-04-040S-040S (<i>rotory manifold #5 to bulkhead</i>)	
4	REF.	1		WHEEL DRIVE MOTOR	FF-5
5	15372-CB	1		ELBOW, 90 - FF1868T-0812S	
6	20066-CB	1		TEE - 8 S5OLO-S - BRANCH	
7	19221-CB	1		CONNECTOR, REDUCER - ORS FF2281T-0408S	
8	-CB	1		HOSE ASSEMBLY - 2068-04-040S-040S (<i>case tee to bulkhead</i>)	
9	18582-CB	1		CONNECTOR, STR BULKHEAD - FF1994T-0404S	
10	-CB	1		HOSE ASSEMBLY - 2053-04-040S-0409 (<i>bulkhead to bulkhead</i>)	
11	-CB	1		HOSE ASSEMBLY - 2047-04-040S-0404 (<i>bulkhead to bulkhead</i>)	
12	-CB	1		HOSE ASSEMBLY - 2045-04-040S-040S (<i>bulkhead to bulkhead</i>)	
13	-CB	1		HOSE ASSEMBLY - 2045-04-040S-040S (<i>bulkhead to bulkhead</i>)	
14	-CB	1		HOSE ASSEMBLY - 2017-04-040S-0409 (<i>bulkhead to drain</i>)	
15	-CB	1		HOSE ASSEMBLY - 2009-04-040S-0404 (<i>bulkhead to load sense</i>)	
16	16360-CB	1		ELBOW, 90 - FF1868T-0808S	
17	15124-CB	1		CONNECTOR, STR - FF1852T-0406S	
18	REF.	1		CLAM BUNK CONTROL VALVE.	CB-3

 Kit or Assembly - includes all items indented underneath.

 See referenced page for component or assembly breakdown.

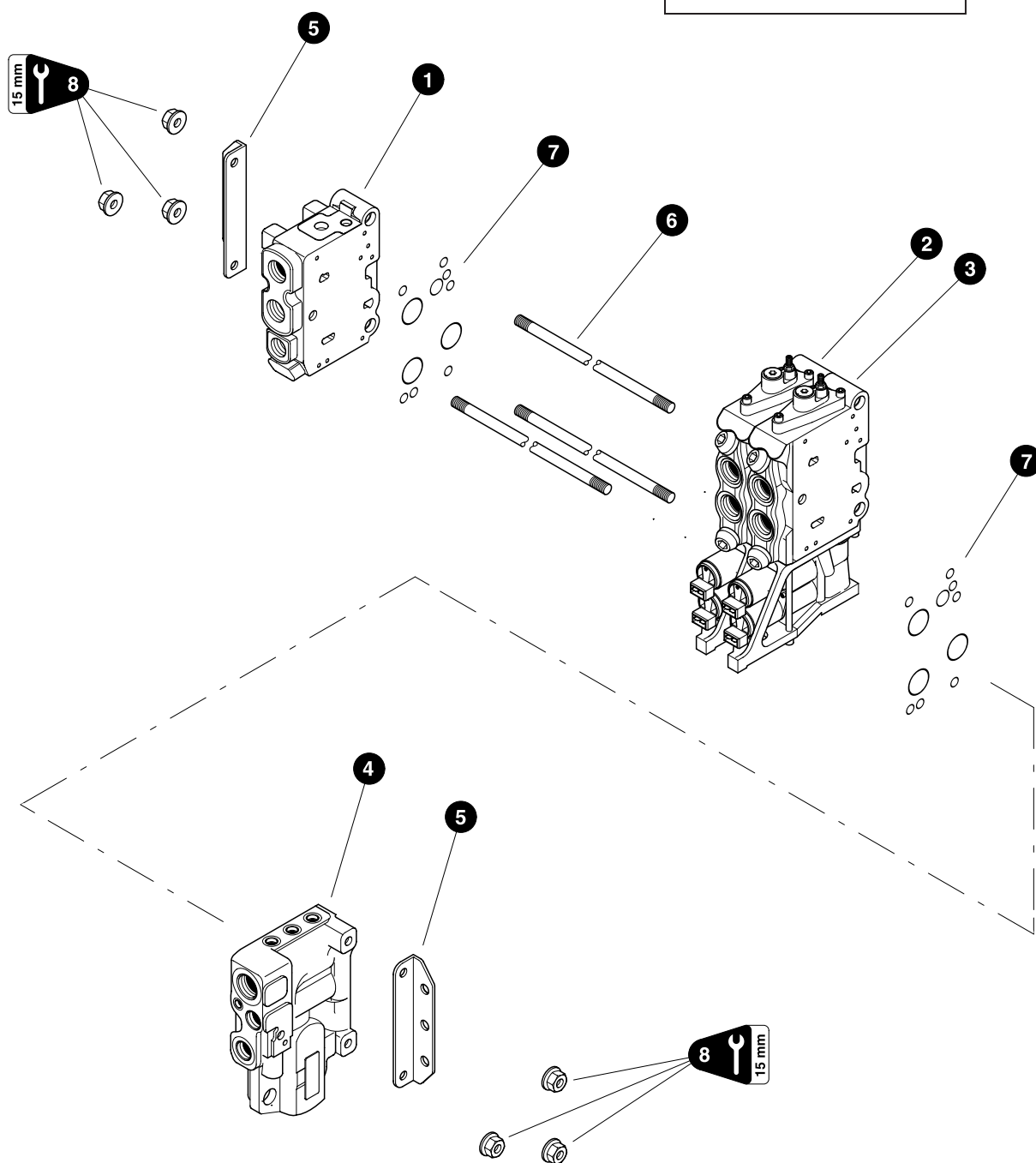
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Section CB-3

Clam Bunk - Main Control Valve and Cylinders

The valve assembly shown below is installed with the coils up. The illustration is shown upside down.



CLAM BUNK CONTROL VALVE (VOAC L90LS)

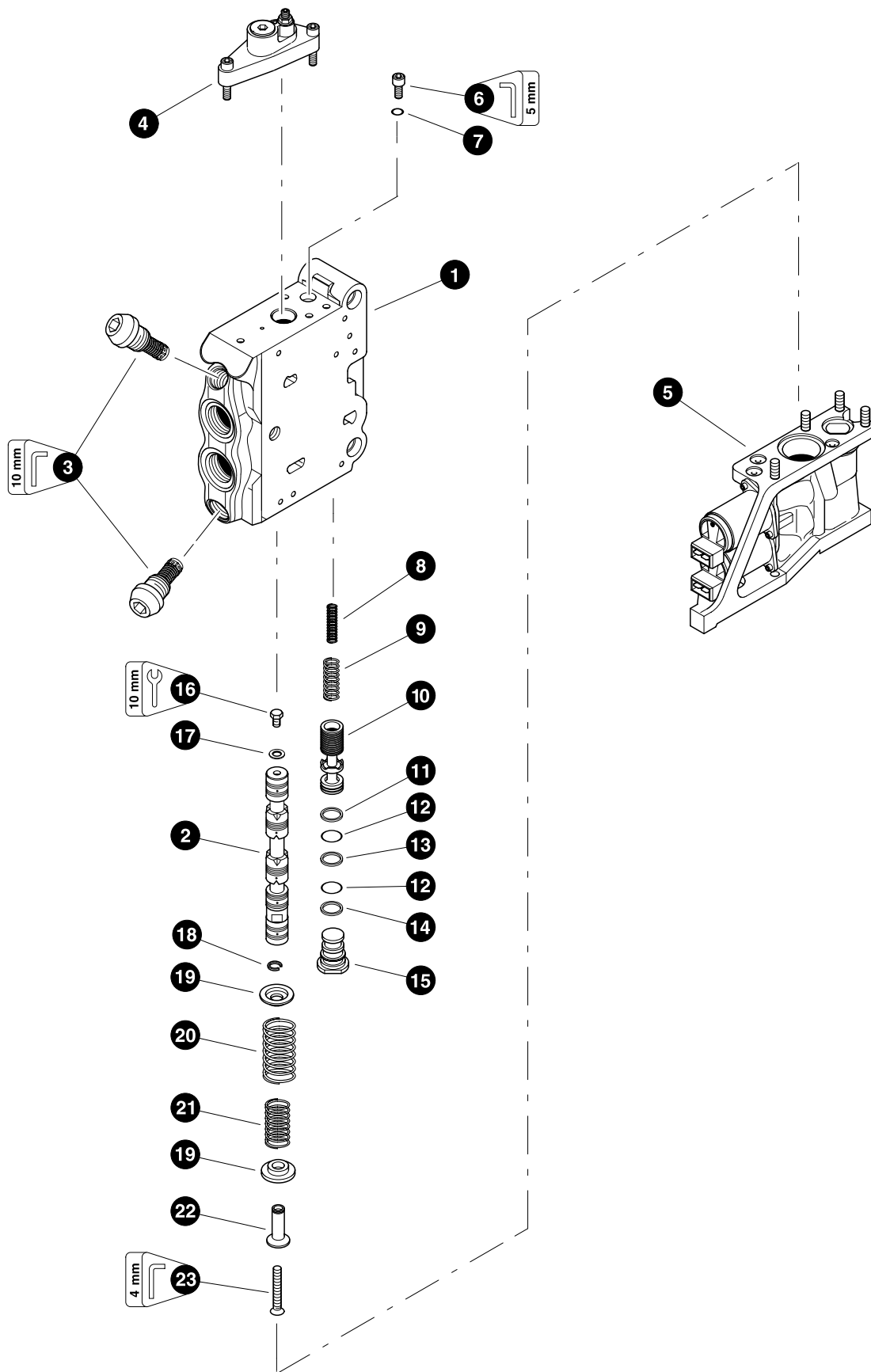
REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	25016-CB	1		CLAM BUNK CONTROL VALVE ASSEMBLY	
1	REF	1		VALVE SECTION - outlet	CB-2
2	REF.	1		VALVE SECTION - clam arm function (<i>Right</i>)	CB-2
3	REF.	1		VALVE SECTION - clam arm function (<i>Left</i>).	CB-2
4	REF	1		VALVE SECTION - inlet	CB-2
-	23402-CB	1		KIT, mounting brackets	
5	-----	2		BRACKET, valve mounting	
-	-----	1		KIT, tie rod (<i>6 section</i>)	
6	-----	3		ROD, tie	
7	23913-CB	6		NUT (<i>Special torque procedure</i>)(See Note #1 Below)	
8	23404-CB	7		KIT, seal repair - L90LS face seals	

 Kit or Assembly - includes all items indented underneath.

 See referenced page for component or assembly breakdown.

Note #1:

Tie rod nuts should be torqued in a clockwise pattern in three steps, 7.5 ft.lbs. (10 Nm), 22.5 ft.lbs. (30 Nm) and 33.5 ft.lbs. (45 Nm).



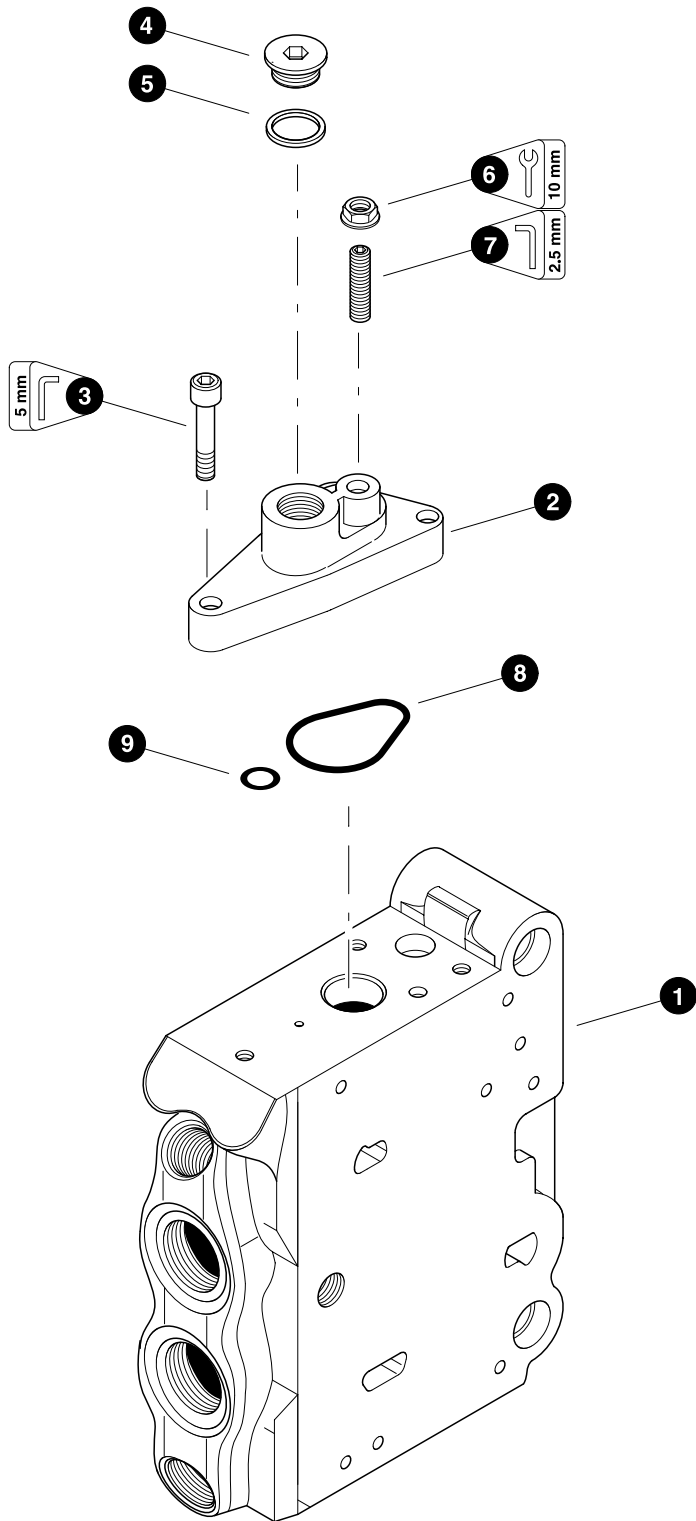
Parts 01318 09/15/99
37.50

WORK VALVE SECTION (VOAC L90LS)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	23409-CB	1	☐	VALVE SECTION, clam arm	
1	NSS	1		BODY, valve section	
2	NSS	1		SPOOL	
3	23413-CB	2		CARTRIDGE, port relief (250 Bar)	
4	REF.	1	📖	SECTION END CAP ASSEMBLY - "A" port side	CB-2
5	REF.	1	📖	SECTION END CAP ASSEMBLY - "B" port side	CB-2
-	23419-CB	1	☐	KIT, compensator - "KX" (Blue)	
-	23424-CB	1	☐	KIT, compensator - "K" (Blue)(Rotate & grapple only)	
6	-----	1		SCREW, throttling - 6mm-1.0P x 10mm	
7	-----	1		RING, seal	
8	-----	1		ORIFICE	
9	-----	1		SPRING, compensator	
10	-----	1		SPRING, compensator	
11	-----	1		SPOOL, compensator	
12	-----	2		RING, back-up	
13	-----	1		O-RING	
14	-----	1		O-RING	
15	-----	1		RING, back-up	
16	-----	1		PLUG, compensator	
17	-----	1		BOLT, spool - 6mm-1.0P x 8mm	
18	-----	1		WASHER	
-	23423-CB	1	☐	KIT, spool centering spring	
19	-----	1		RING, lock	
20	-----	2		RETAINER, spring	
21	-----	1		SPRING	
22	-----	1		SPRING	
23	-----	1		SLEEVE	
24	-----	1		SCREW, spring assembly	

☐ Kit or Assembly - includes all items indented underneath.

📖 See referenced page for component or assembly breakdown.



Parts 01734 08/08/2000
75.00

“A” SECTION END CAP ASSEMBLY (VOAC L90LS)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	NSS	1		VALVE SECTION BODY	CB-2
-	23414-CB	1		KIT, end cap - “A” port side	
2	-----	1		CAP, end	
3	-----	3		BOLT, allen head - 6mm-1.0P x 20mm	
4	15412-CB	1		PLUG - 6408-HHP-6	
5	-----	1		RING, seal	
6	-----	1		NUT, seal - 6mm	
7	-----	1		SCREW, adjustment	
8	-----	1		O-RING (<i>Large</i>)	
9	-----	1		O-RING (<i>Small</i>)	
-	23415-CB	1		KIT, seal repair - “A” port side end cap	



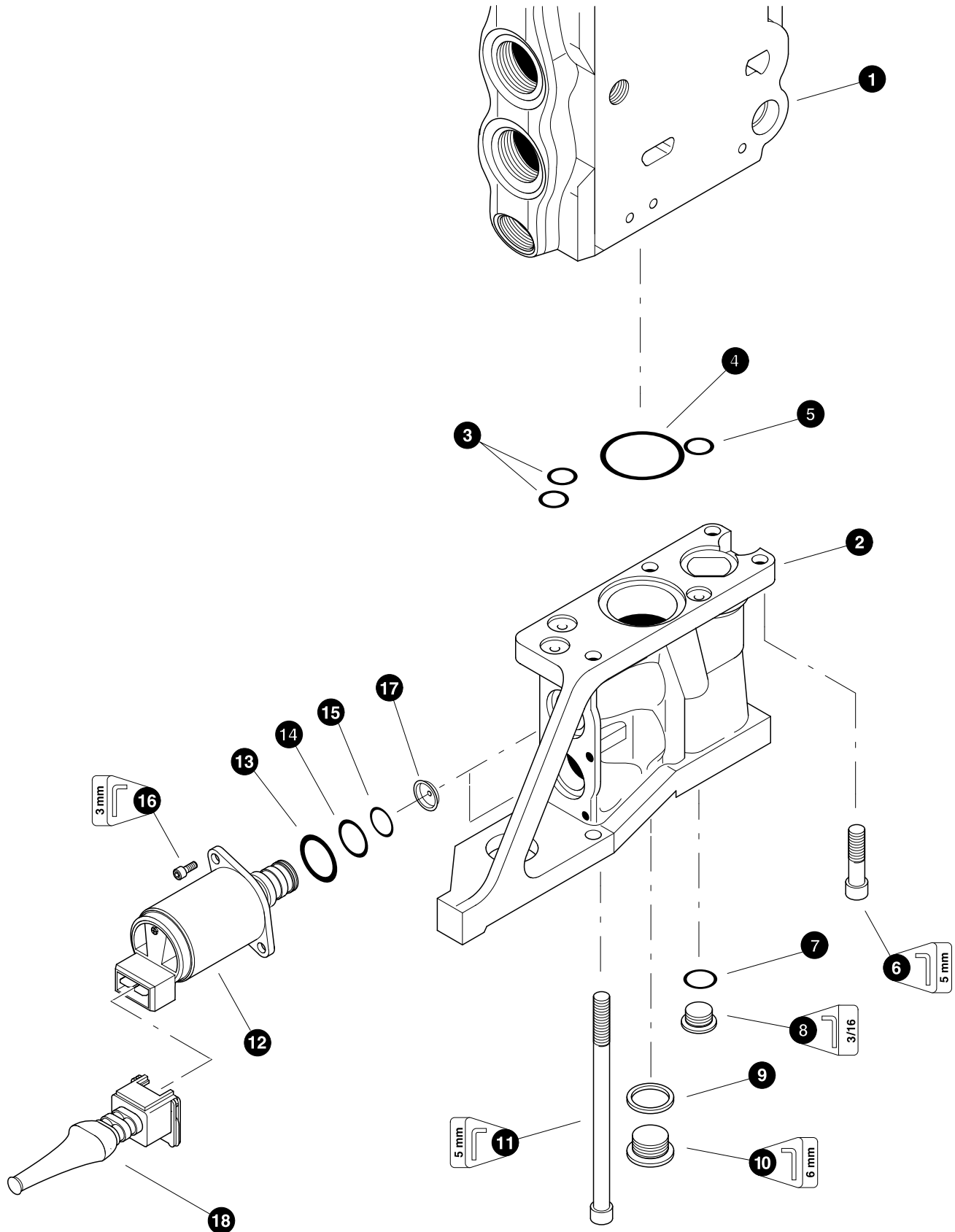
See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.



Included in seal repair kit PN# 23415-CB.



Parts 01735 02/21/2003
75.00

“B” SECTION END CAP ASSEMBLY (VOAC L90LS)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	NSS	1		VALVE SECTION BODY	CB-2
-	23416-CB	1		KIT, end cap - “B” port side	
2	-----	1		CAP, end	
3	20976-CB	2		SOLENOID - 24V	
	19436-CB	2		SOLENOID - 12V	
4	-----	2		O-RING (<i>Large</i>)	
5	-----	2		O-RING (<i>Medium</i>)	
6	-----	2		O-RING (<i>Small</i>)	
7	-----	4		SCREW, allen head - 4mm-.75P x 12mm	
8	-----	2		O-RING (<i>Small</i>)	
9	-----	1		O-RING (<i>Large</i>)	
10	-----	1		O-RING (<i>Small</i>)	
11	-----	2		BOLT, allen head - 6mm-1.0P x 20mm	
12	-----	1		O-RING	
13	11383-CB	1		PLUG - 6408-HHP-4	
14	-----	1		RING, seal	
15	-----	1		PLUG	
16	-----	2		SCREW, allen head - 6mm-1.0P x 100mm	
-	23418-CB	1		KIT, seal repair - solenoid	
-	23417-CB	1		KIT, seal repair - “B” port side end cap	



See referenced page for component or assembly breakdown.



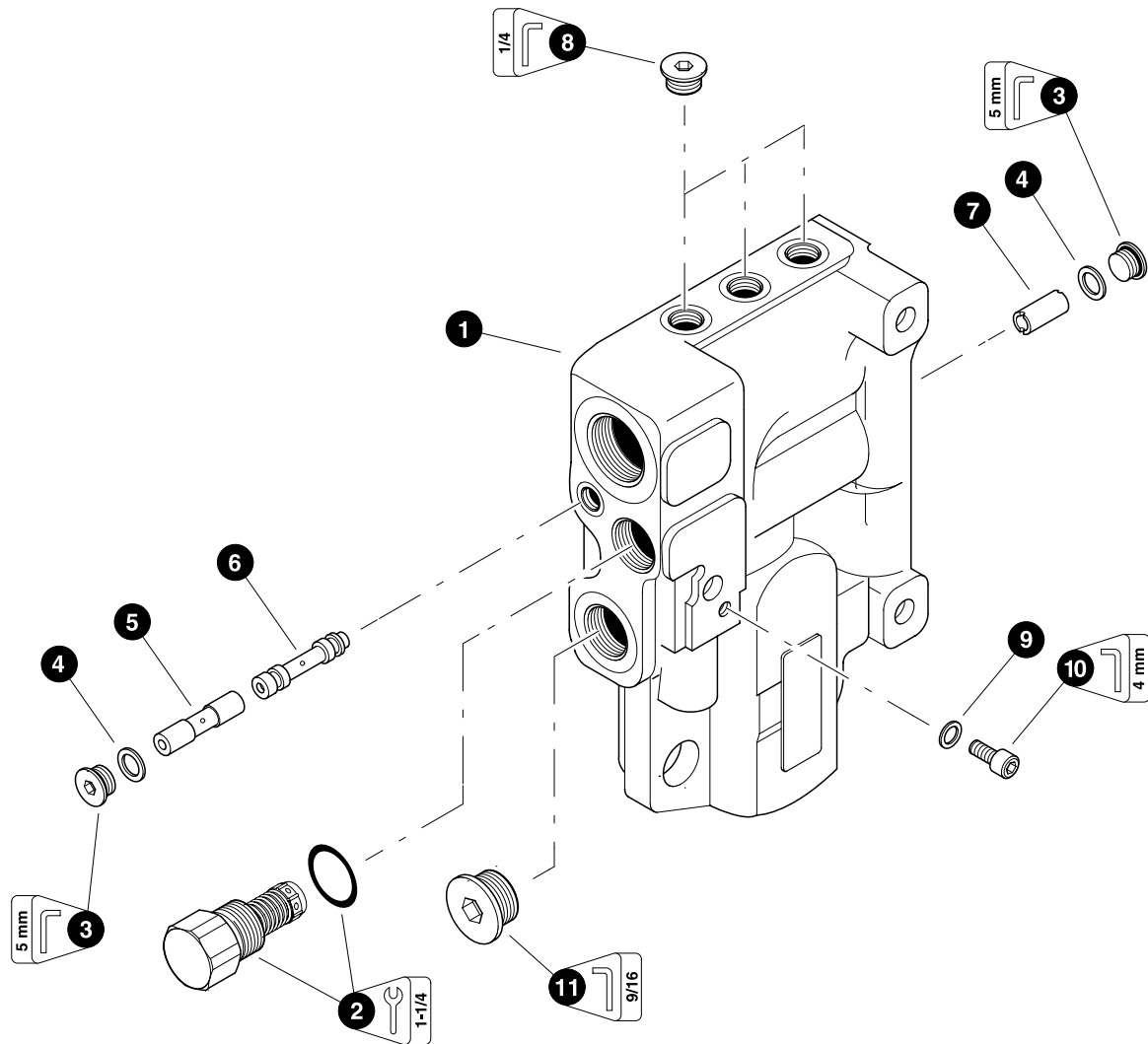
Kit or Assembly - includes all items indented underneath.



Included in seal repair kit PN# 23418-CB.



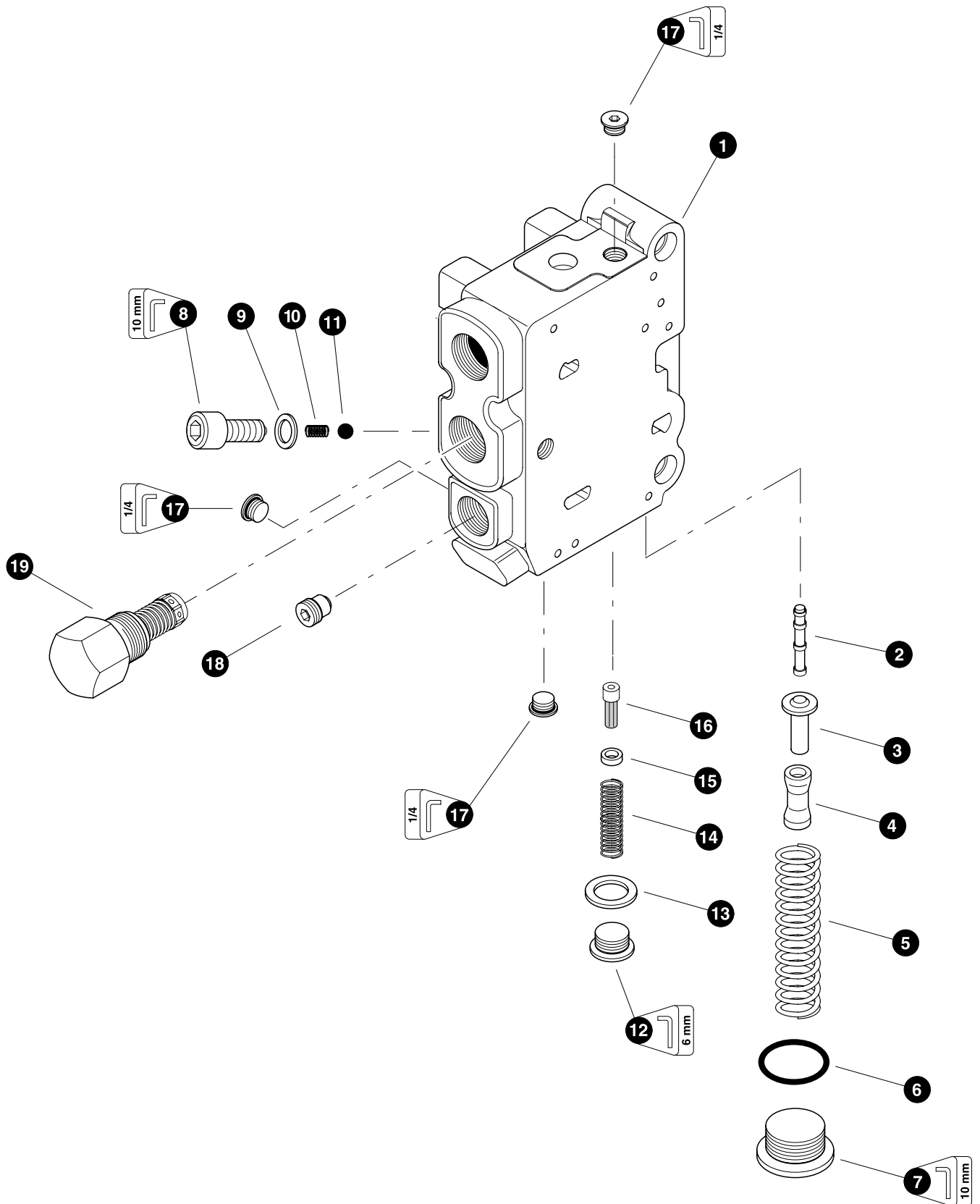
Included in seal repair kit PN# 23417-CB.



INLET VALVE SECTION (VOAC L90LS)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	23405-CB	1	☐	VALVE SECTION, inlet	
1	NSS	1		BODY, valve section	
2	23428-CB	1	☐	RELIEF (250 bar)	
-	23429-CB	1		KIT, load sense copy spool (Green)	
	23430-CB	1		KIT, load sense copy spool (Red)	
3	-----	2		PLUG	
4	-----	2		RING, seal	
5	-----	1		SPACER	
6	-----	1		SPOOL	
7	-----	1		SPACER	
8	15412-CB	3		PLUG - 6408-HHP-6	
9	-----	1		BOLT, allen head - 6mm-1.0P x 12mm	
10	-----	1		RING, seal	
11	15584-CB	1		PLUG - 6408-HHP-12	

☐ Kit or Assembly - includes all items indented underneath.

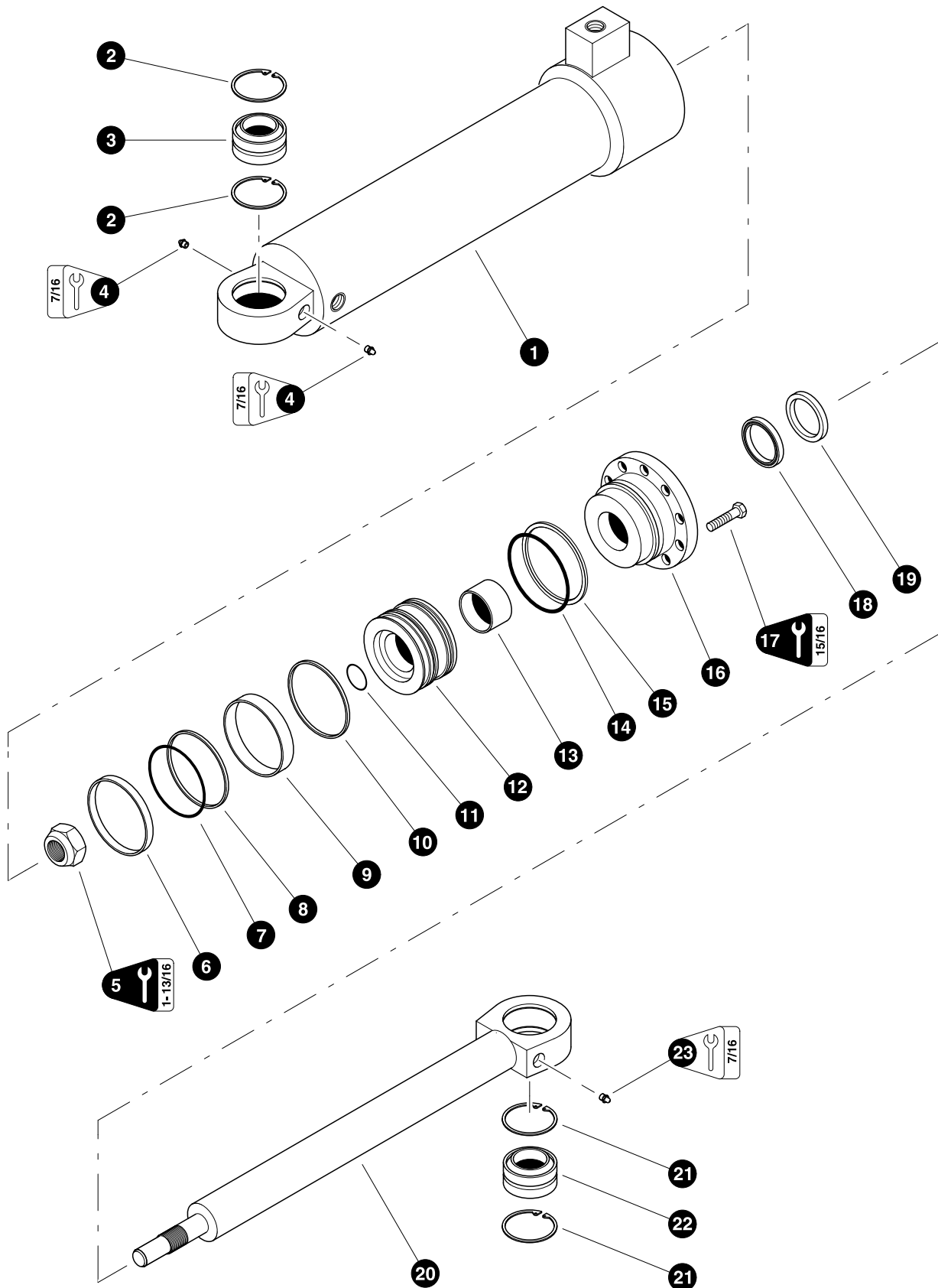


Parts 01319 09/16/99
62.00

OUTLET VALVE SECTION (VOAC L90LS)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	23412-CB	1	☐	VALVE SECTION, outlet	
1	NSS	1		BODY, valve section	
-	23431-CB	1		KIT, pilot supply reducer <i>(Green)</i> (35 bar)	
	23432-CB	1		KIT, pilot supply reducer <i>(Red)</i> (35 bar)	
2	-----	1		SPOOL	
3	-----	1		SPACER	
4	-----	1		SPACER	
5	-----	1		SPRING	
6	-----	1		O-RING	
7	-----	1		PLUG	
8	-----	1		RING, seal	
9	-----	1		SPRING	
10	-----	1		SPACER	
11	-----	1		STRAINER	
-	23433-CB	1		KIT, pilot supply strainer (393000K074)	
12	-----	1		PLUG	
13	-----	1		RING, seal	
14	-----	1		SPRING	
15	-----	1		SPACER	
16	-----	1		FILTER, PILOT SUPPLY	
17	15412-CB	3		PLUG - 6408-HHP-6	
18	-----	1		PLUG, TP (393000K078)	

☐ Kit or Assembly - includes all items indented underneath.



00268 09/08/97
18.75

CLAM ARM CYLINDER (Jarp)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
-	19738-CB	2	☐	CLAM ARM CYLINDER ASSEMBLY	
1	19960-CB	1	☐	BARREL ASSEMBLY	
2	19916-CB	2		RING, snap	
3	19917-CB	1		BUSHING, spherical - 2"	
4	10704-CB	1		FITTING, straight grease - 1/8" pipe thread	
5	15914-CB	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-CB	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-CB	1		BEARING, rod	
17	15681-CB	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-CB	1	☐	ROD ASSEMBLY	
21	19916-CB	2		RING, snap	
22	19917-CB	1		BUSHING, spherical - 2"	
23	10704-CB	1		FITTING, straight grease - 1/8" pipe thread	
-	19964-CB	1		KIT, seal repair - steer/clam arm cylinder - 5"	

☐ Kit or Assembly - includes all items indented underneath.

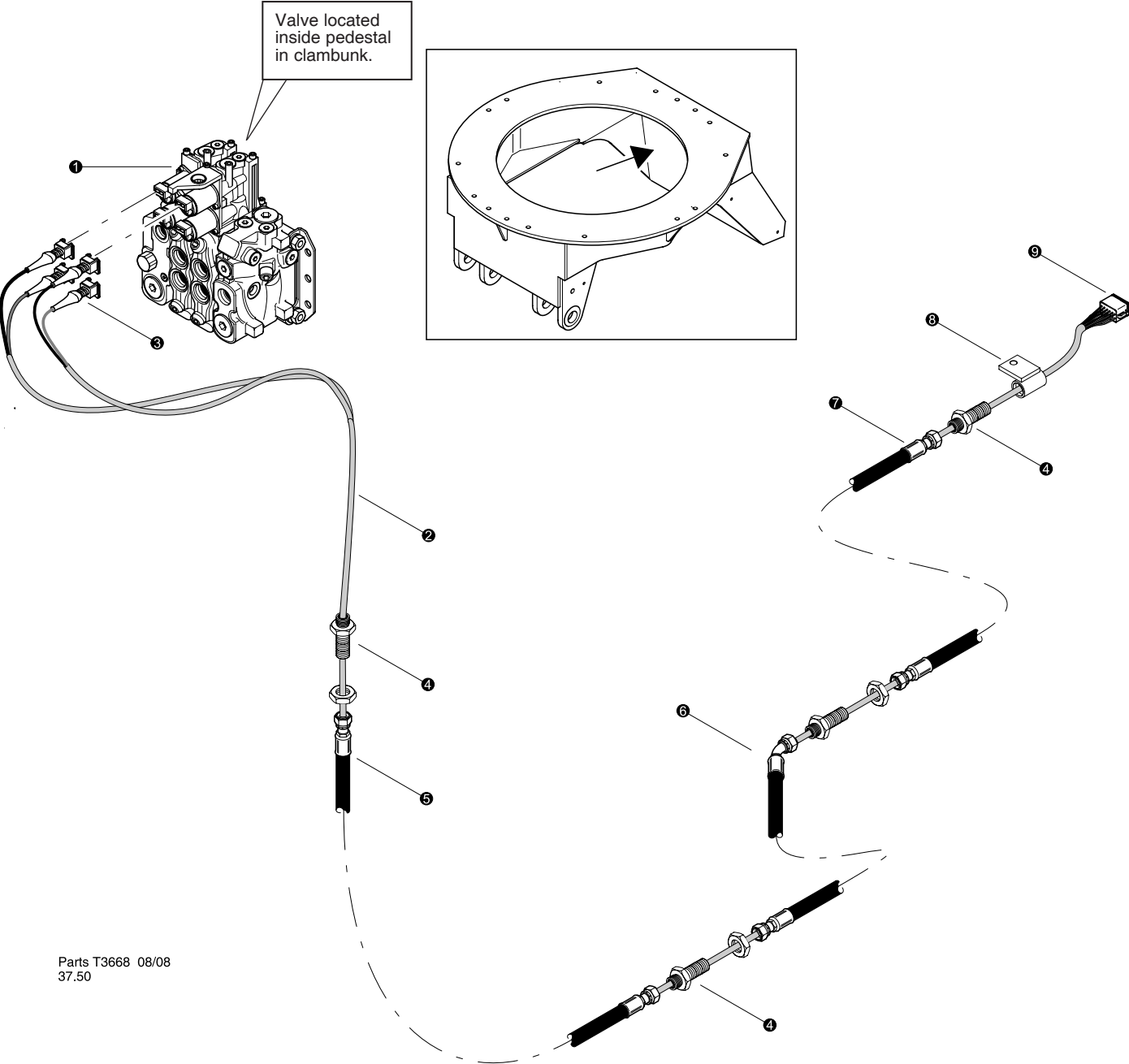
⌘ Included in seal repair kit Part # 19964-LB.

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Section CB-4

Clam Bunk - Electrical Harness



ELECTRICAL CONNECTIONS

(Clam Bunk Control Valve)

REF	PART #	QTY		DESCRIPTION	SEE SECTION
1	REF	1		CLAM BUNK CONTROL VALVE	CB-3
2	25122-CB	18ft	☐	WIRE - 18 GA. 8 CONDUCTOR (500' SPOOL)	
3	19482-CB	4		CONNECTOR, CONTROL VALVE KIT	
4	50037-CB	1		CONNECTOR, STR BULKHEAD - 832-TT-10	
5	-CB	1		HOSE ASSEMBLY - 2051-10-100S-100S	
6	-CB	1		HOSE ASSEMBLY - 2045-10-100S-1004	
7	-CB	1		HOSE ASSEMBLY - 2053-10-100S-100S	
8	22202-CB	1		BRACKET, VENT MOUNT - REAR (3/4NPT)	
9	-CB	1		CONNECTOR, DEUTCH 12 SOCKET (AD13018-1)	
-	53176-CB	12		SOCKET 16GA,	
-	-CB	1		WEDGE LOCK, (AD13017-1)	



See referenced page for component or assembly breakdown.



Kit or Assembly - includes all items indented underneath.

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