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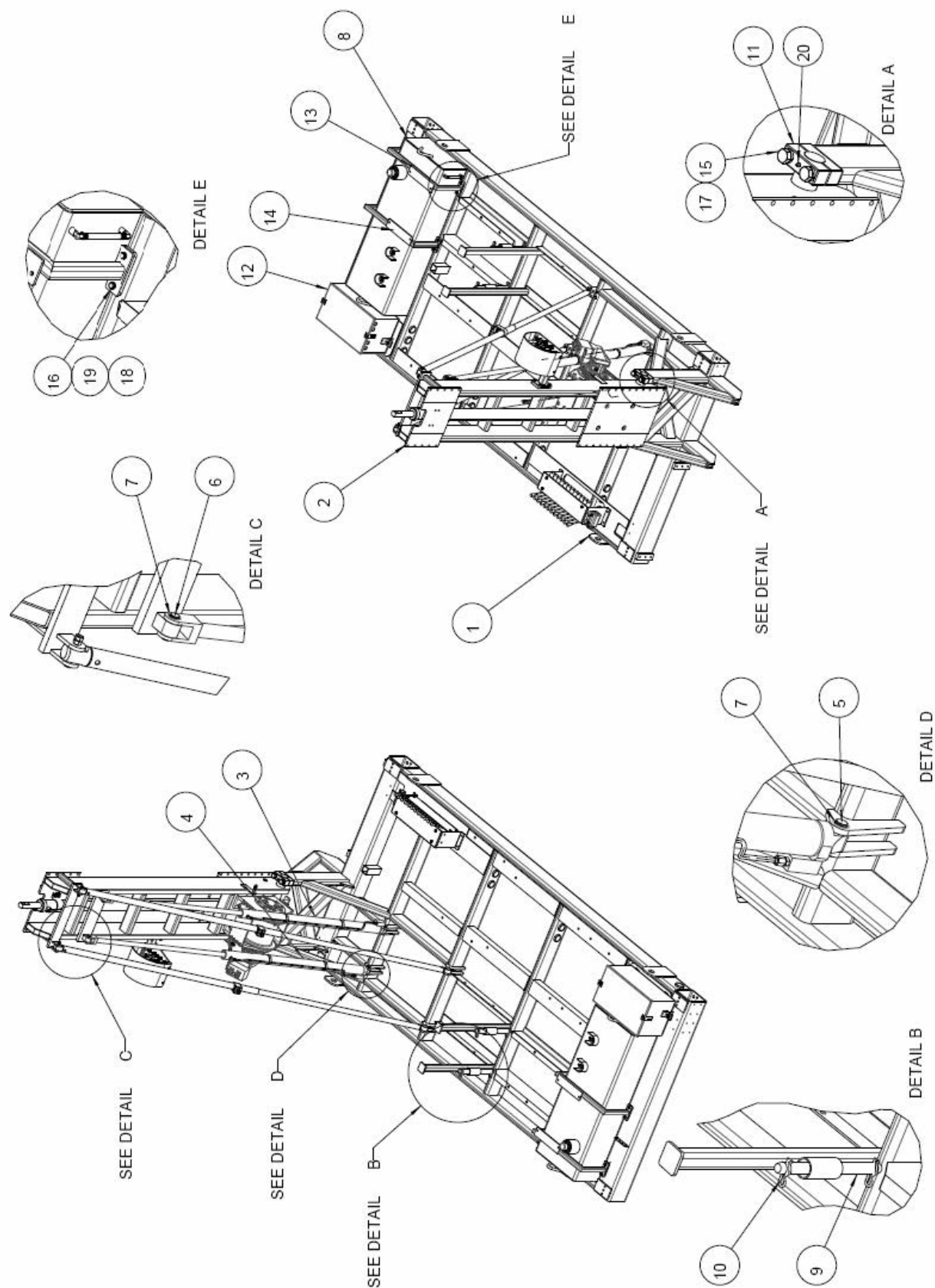
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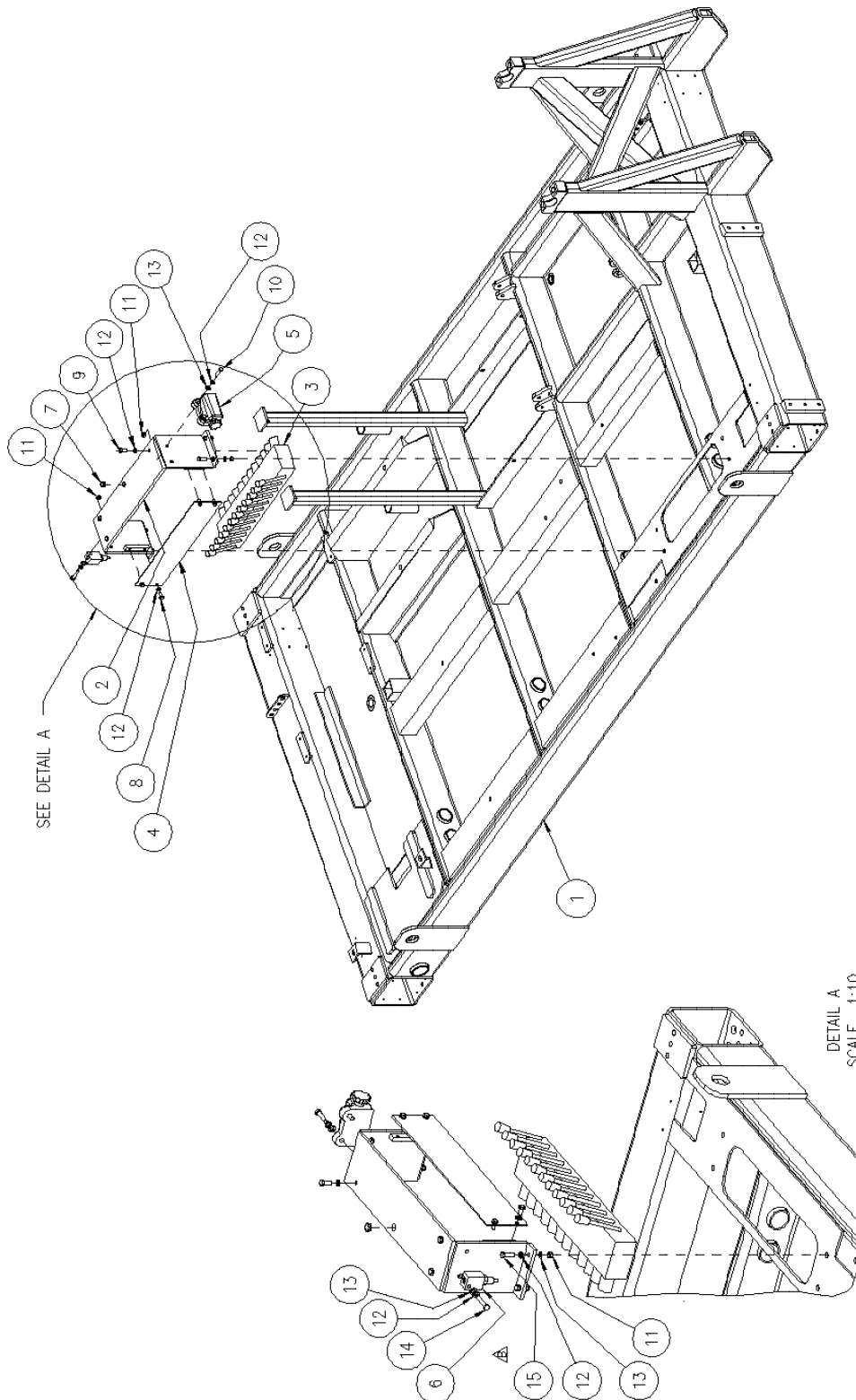
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3547154B LF90D S/N 2007-168 & UP

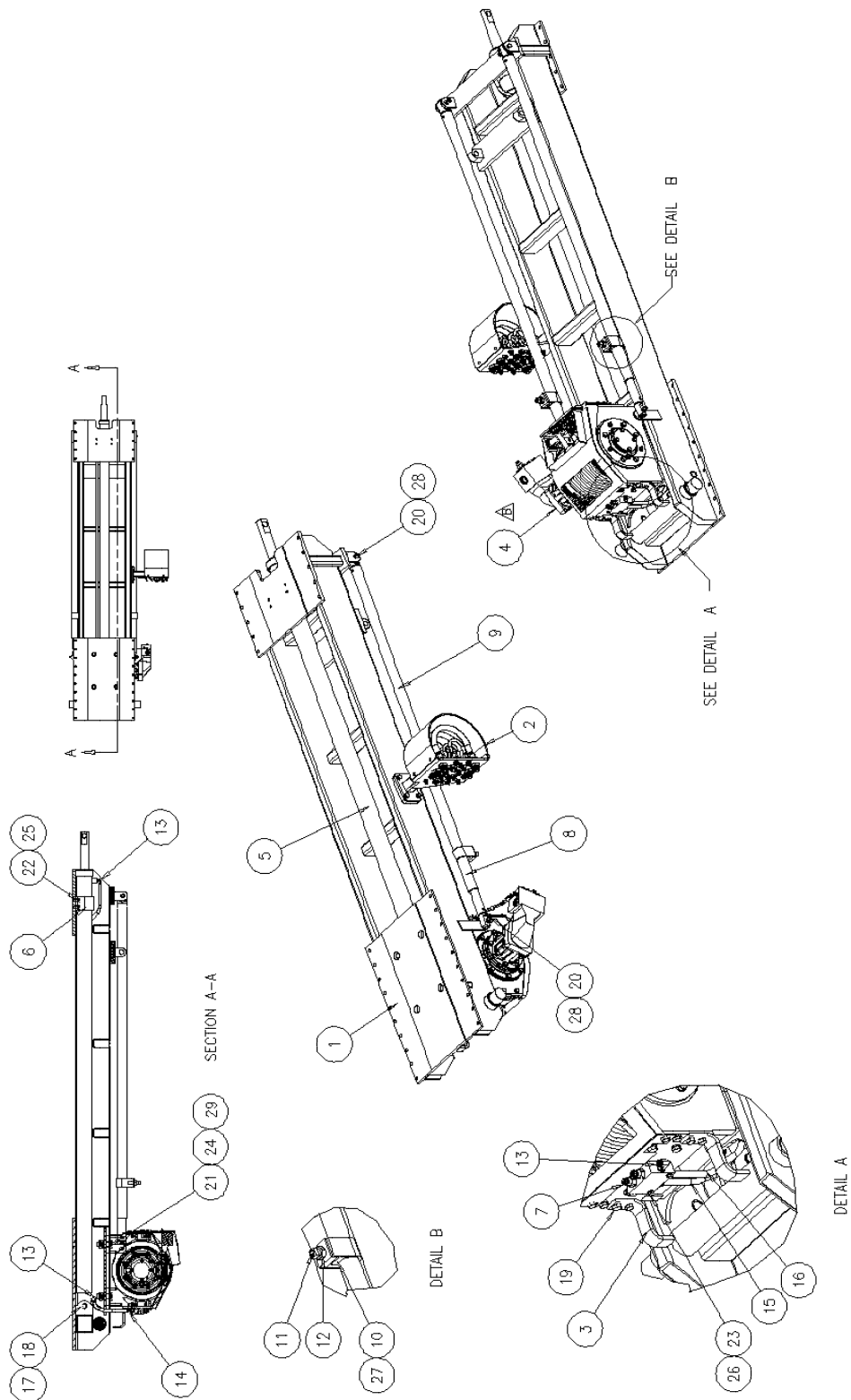
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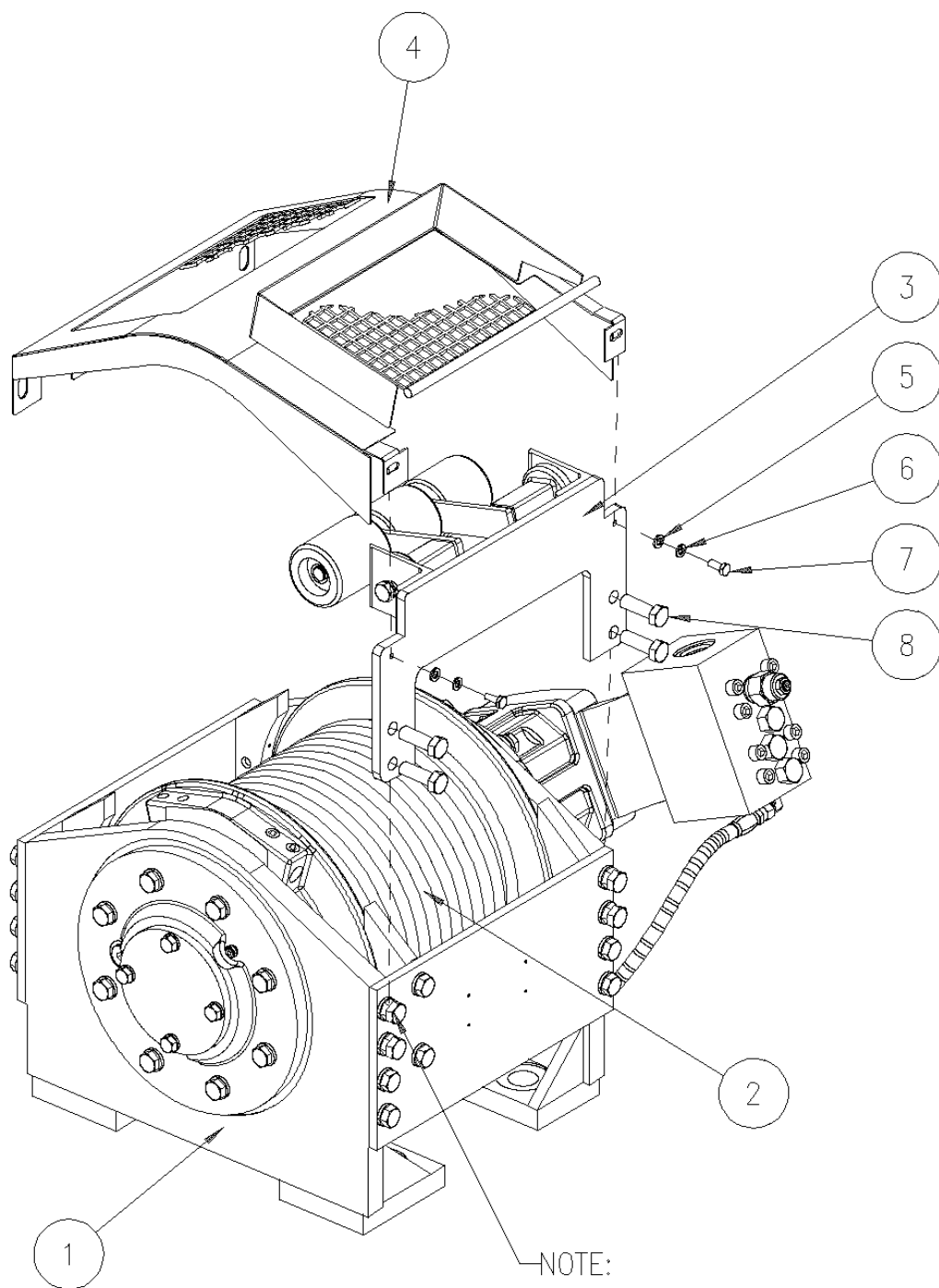
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7	3542429	8	RING, RETAINING OUTRIGGER CYL [1" external]
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10	36801	4	PIN, COTTER
11	3540363	2	CAP, MOUNTING MAST SWIVEL
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13	3548517	1	MOUNT, LH HYDRAULIC COOLER
14	3548516	1	MOUNT, RH HYDRAULIC COOLER
15	3540359	4	C/SCR, HH 1UNF x 3 1/2 LG.
16	44511	8	C/SCR, HH 3/8-16 UNC x 3/4
17	44575	4	L/WASHER, SPLIT SPRING 1 ID
18	44520	8	L/WASHER, 3/8 SAE G8
19	44859	8	WASHER, FLAT 3/8 SAE G8
20	16634	2	FITTING-GREASE 1/8 NPTF



1	3548462	1	BASE FRAME, LF90D
2	3547212	1	MOUNT, VALVE 12 BANK
3	3546720	1	VALVE, 12 BANK OUTRIGGER
4	3547511	1	COVER
5	3541599	1	VALVE, THREE-WAY SELECTOR
6	3548232	1	PC FLOW CONTROL
7	3548817	1	LEVEL, MOUNTED CIRCULAR
8	44511	4	C/SCR, HH 3/8-16 UNC x 3/4
9	44512	3	C/SCR, HH 3/8 UNC x 1 LG
10	44558	2	C/SCR, HH 3/8-16UNC x 1 3/4LG.
11	44527	7	NUT, HEX 3/8-16UNC
12	44520	14	L/WASHER, 3/8 SAE G8
13	44859	7	WASHER, FLAT 3/8 SAE G8
14	44600	1	C/SCR, HH 3/8-16UNC x 2 LG.
15	44593	4	C/SCR, HH 3/8-16UNC x 1 1/4



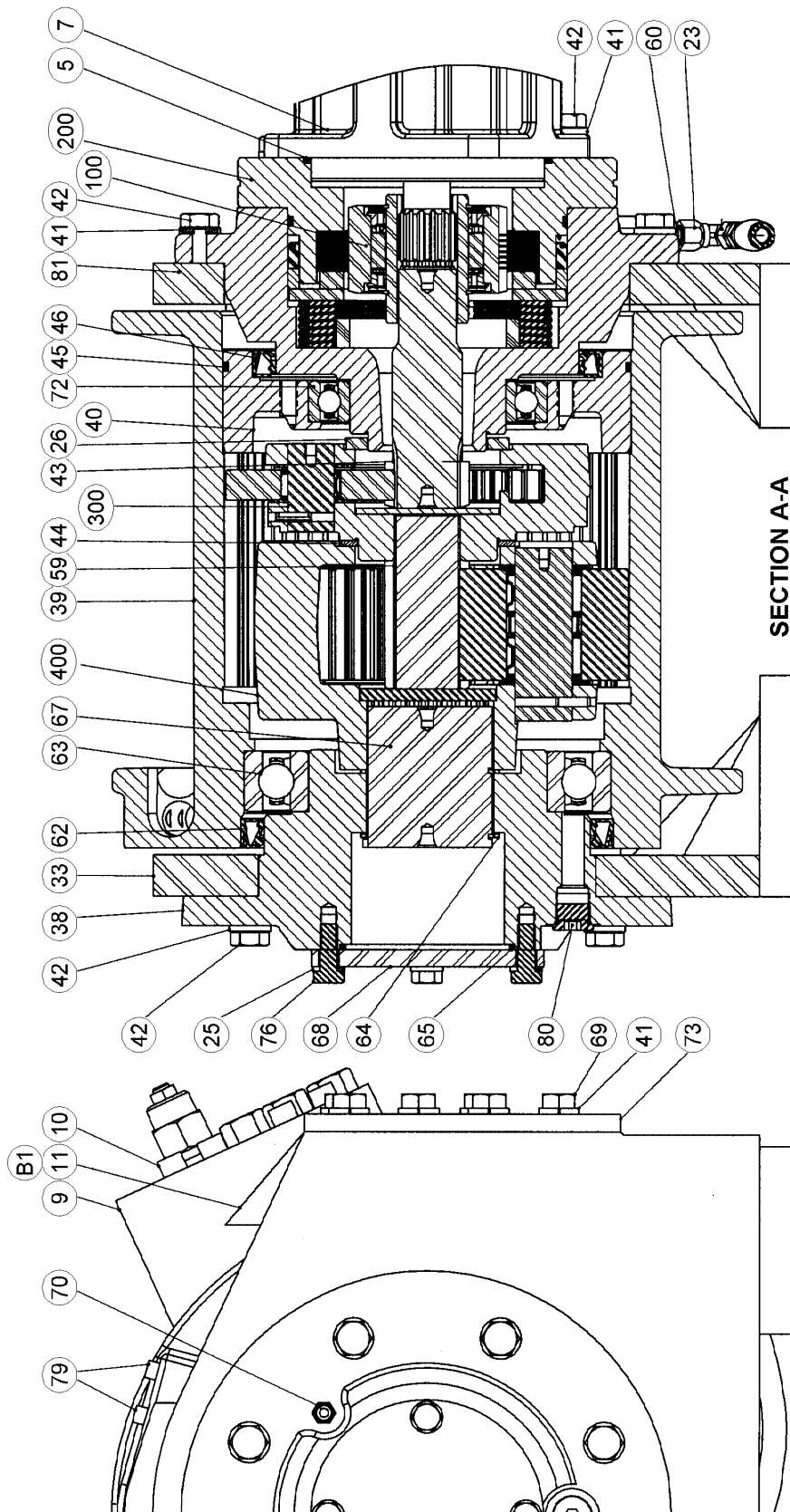
1	3547823	1	FRAME WELDMENT, DUMP
2	3547710	1	ASSEMBLY, HOSE HANGER
3	3547704	2	BRACKET, HOSE SUPPORT
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5	3547042	1	DUMP CYLINDER
6	3547523	1	SUPPORT, CYLINDER
7	3547707	1	MANIFOLD ASM, C/B CARTRIDGE LF90D/LF230
8	100181	2	LEG, INNER SUPPORT
9	100180	2	LEG, OUTER SUPPORT
10	100886	2	JAW, CLAMPING
11	102226	2	S/SCR, SQ HD 3/4-10 UNC x 2"
12	44564	2	NUT, HEX JAM 3/4-10 NC
13	36478	4	ADAP, #6 JIC x #6 ORB x 90Deg
14	33660	2	ADAP, HYD 6JIC x 6 ORB
15	3548608	1	HOSE ASM, 6 JIC x 6 JIC x 10 Lg
16	3548609	1	HOSE ASM, 6 JIC x 6 JIC x 105 Lg
17	3548436	1	PIN, DUMP CYLINDER
18	3548437	2	RING, EXT 1-1/8 DIA SNAP
19	44510	4	C/SCR, HH 1/2-13 UNC x 1-1/2
20	44602	4	C/SCR, HH 1/2-13 UNC x 3 - [L.C. #90214-256]
21	46107	4	C/SCR, HH 1-8 UNC x 3 GR 8
22	44513	8	C/SCR, HH 1/2-13UNC x 1 LG
23	44667	2	C/SCR, HH 5/16-18 UNC x 1-3/4 - [L.C. #90214-170]
24	44575	4	L/WASHER, SPLIT SPRING 1 ID
25	44521	10	L/WASHER, SPLIT SPRING 1/2"
26	44519	2	L/WASHER, 5/16 SAE G8
27	100887	2	LOCKNUT, HEX [Rework]
28	44525	6	NUT, HEX 1/2-13 UNC
29	44573	4	NUT, HEX 1 UNC



NOTE:
REMOVE EXISTING LOCK WASHER
AND REUSE WITH ITEM 8.

QTY INCLUDES 4 EXTRA TO BE
PACKAGED WITH ASSEMBLY.

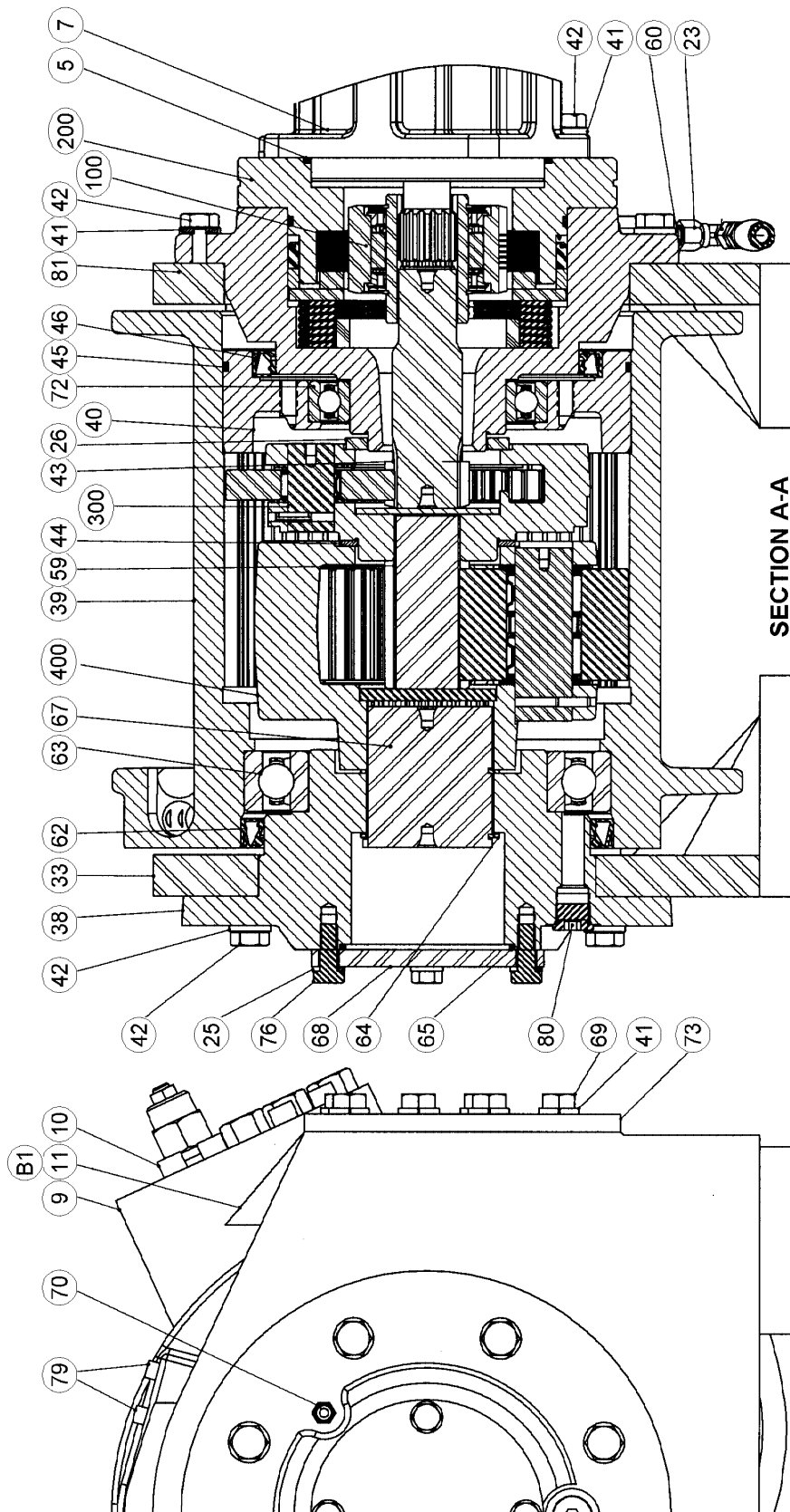
1	3546537	1	HOIST, PLANETARY 16000 LB
2	3547862	1	WIRE ROPE 15mm x 75' Lg.
3	5000170	1	TENSIONER, LF90D MAINLINE (Page 16)
4	5000091	1	GUARD, TENSIONER
5	46087	2	WASHER, FLAT 1/4
6	44518	2	L/WASHER, 1/4 ID
7	44681	2	BOLT, HH 1/4-20 UNC x 5/8 - [L.C. #90214-43]
8	44510	8	C/SCR, HH 1/2-13 UNC x 1-1/2



1		1	NAMEPLATE, GH5/PD5 WINCH
2		4	SCREW, DRIVE
3		1	ELBOW / O-RING
4	01	2	O-RING
5	01	1	O-RING
7	3543941	1	MOTOR, HYDRAULIC (MAINLINE WINCH)
9		1	COUNTERBALANCE VALVE
10	51767	8	C/SCR, SH 3/8 UNC X 5 G8
11		4	GUARD, CABLE
12		1	SHAFT, PRIMARY PLANET GEAR
23		1	SWIVEL NUT, 90 deg ELBOW
25		4	LOCKWASHER
26		1	SPACER
32		1	MOTOR SUPPORT
33		1	SUPPORT END PLATE
38		1	BEARING SUPPORT
39		1	CABLE DRUM
40		1	CABLE DRUM CLOSURE
41	44521	44	L/WASHER, SPLIT SPRING 1/2"
42	44510	24	C/SCR, HH 1/2-13 UNC x 1-1/2
43		1	GEAR, PRIMARY SUN
44	00	1	WASHER, THRUST
45	01	1	ORING
46	01	1	SEAL, OIL
59		1	GEAR, SUN OUTPUT
60		1	ADAPTER
62	01	1	SEAL
63	00	1	BEARING, BALL
64		2	RETAINING RING, EXTERNAL
65	01	1	O-RING
67		1	TORQUE SHAFT
68		1	COVER GEAR SIDE, CLUTCH SHAFT
69	44530	20	C/SCR, HH 1/2 UNC x 1 1/4 LG
70	00	1	VALVE, HYD RELIEF 7.5-15 PSI
72	00	1	BEARING, BALL
73		2	TIE PLATE
76	44512	4	C/SCR, HH 3/8 UNC x 1 LG
79	00	2	16056-620 SCREW, SOC SET UN
80		1	16496-8 PLUG, O-RING FLUSH
81		1	MOTOR END PLATE

00) INCLUDED IN BRADEN WINCH SPARE PARTS KIT 3546941

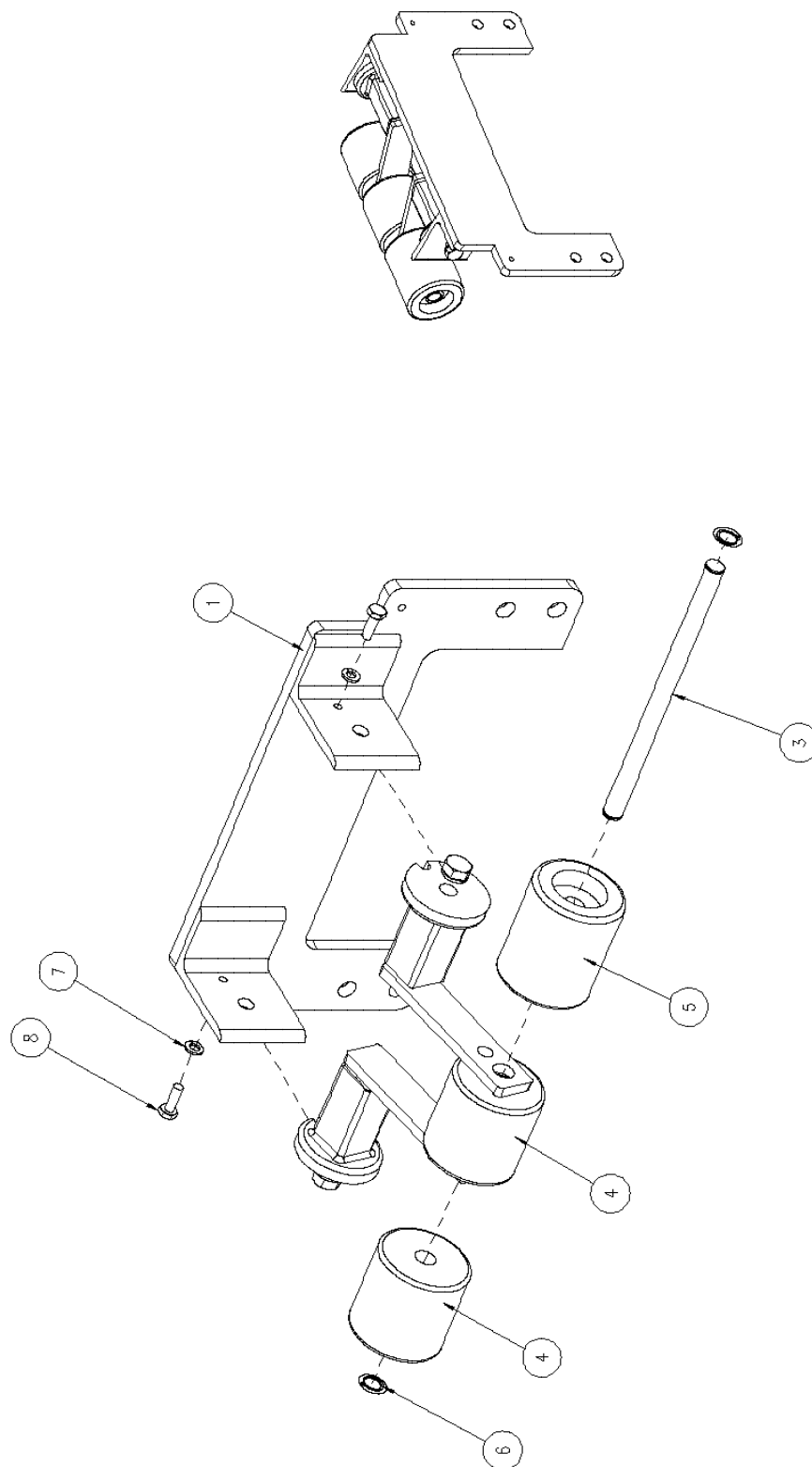
01) INCLUDED IN BRADEN WINCH SEAL KIT 3546938



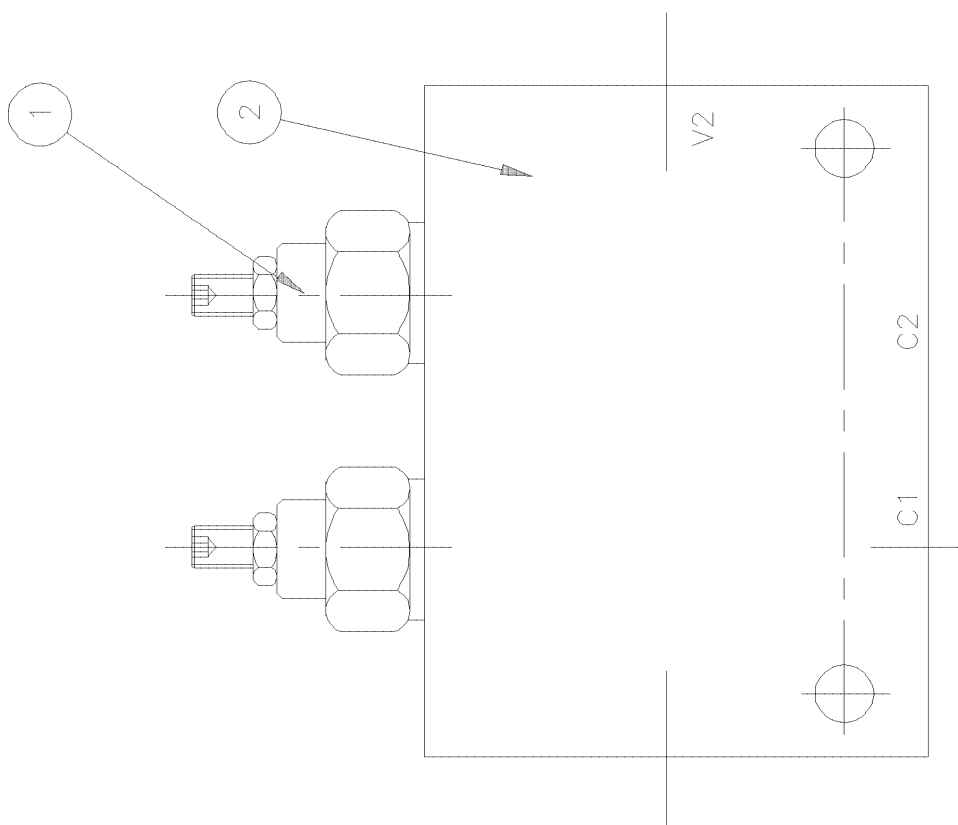
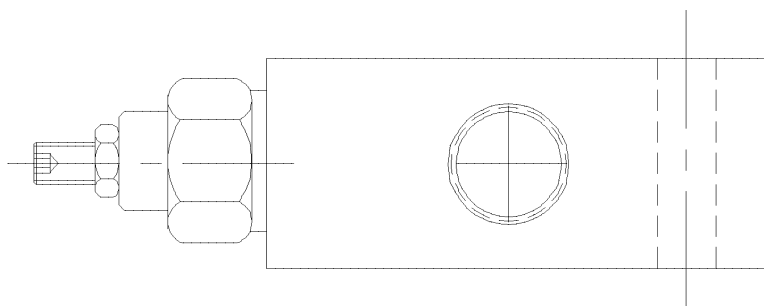
82			2	PLUG, SHIPPING
100	01	3547583	REF	SEAL, F12 VOAC MOTOR SHAFT
200			1	BRAKE CYLINDER SUB-ASSY 4BOL
300			1	PRIMARY PLANET CARRIER ASSY
400			1	PLANET CARRIER ASSY
401	00	3547049	1	SPRAG CLUTCH ASM.
402	00		6	ROLLER BEARING
403	00		3	BEARING SPACER
404	00		6	THRUST WASHER
405	00		3	SPIROL PIN
406	00		3	ROLLER BEARING
407	00		6	BEARING RACE
408	00		3	SPIROL PIN
409	00		12	DIE SPRING
410	00		7	850170 DISC FRICTION BRADEN - 21036

00) INCLUDED IN BRADEN WINCH SPARE PARTS KIT 3546941

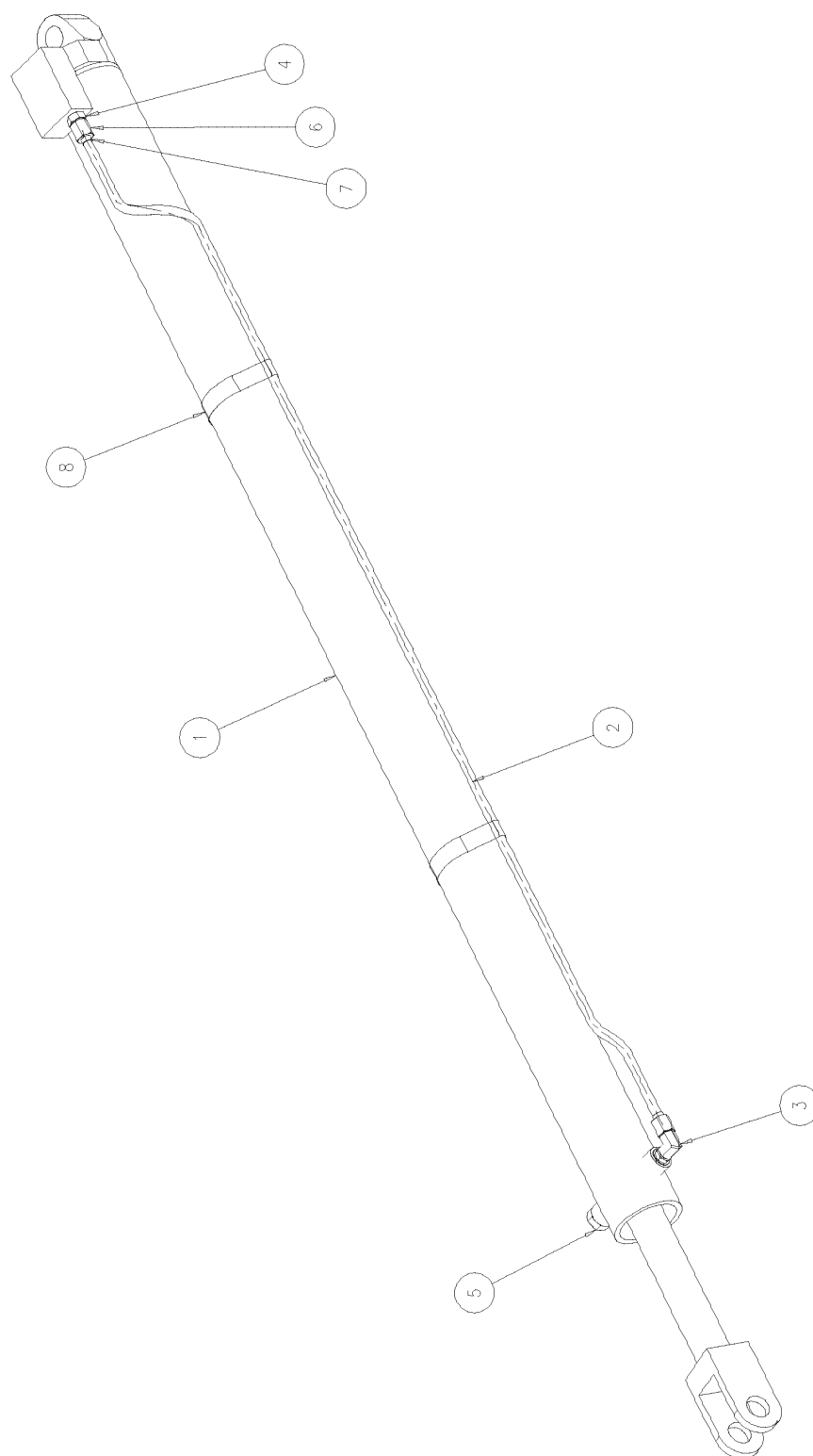
01) INCLUDED IN BRADEN WINCH SEAL KIT 3546938



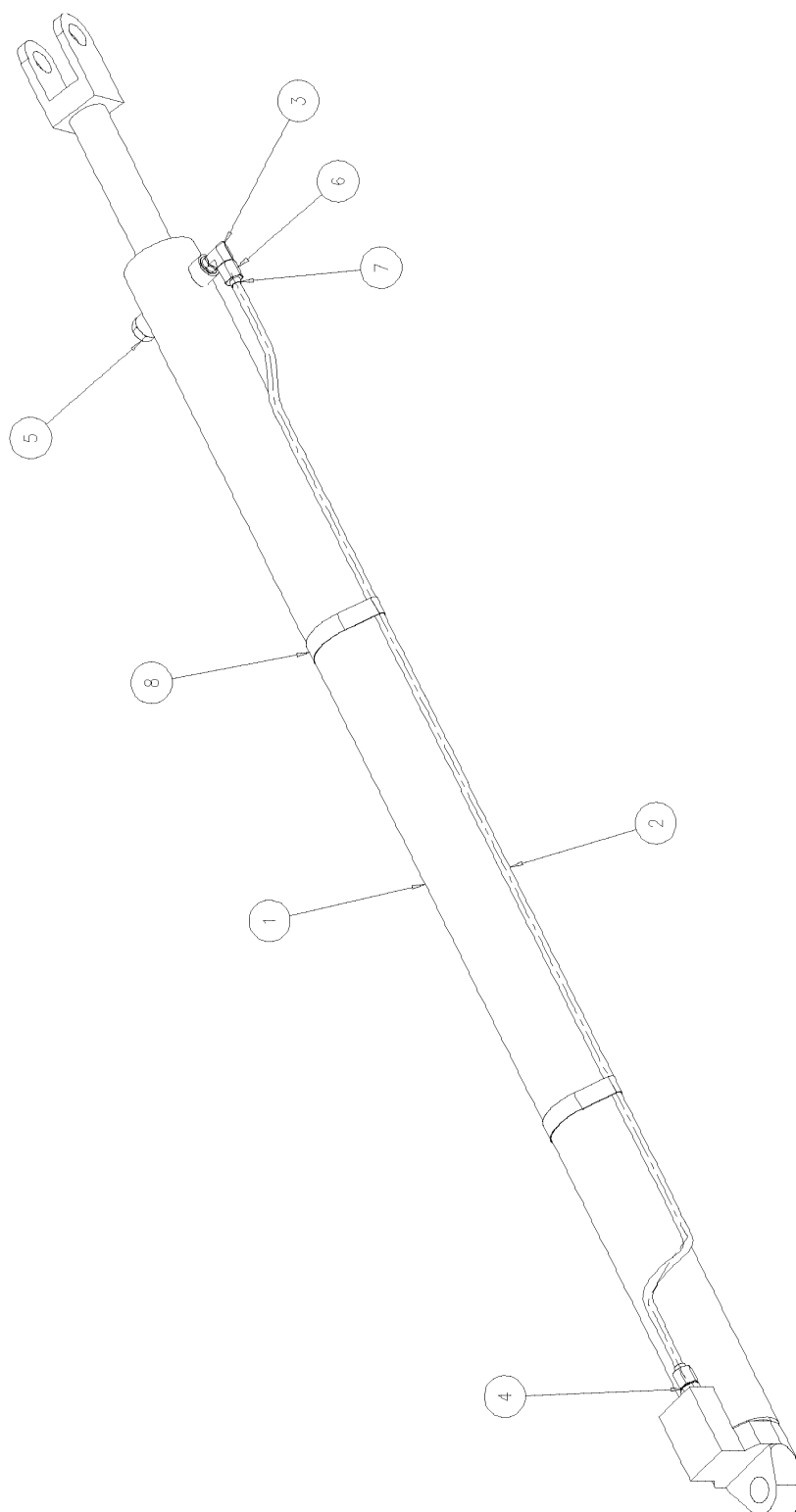
1	5000102	1	MOUNTING BRACKET
2	3549400	2	TENSIONER REWORK
3	3549291	1	AXLE, ROLLER TENSIONER
4	3549296	2	ROLLER 2-1/2 LG
5	3549297	1	ROLLER 3 LG
6	3549305	2	RETAINING RING
7	44518	2	L/WASHER, 1/4 ID
8	44631	2	C/SCR, HH 1/4-UNC x 3/4 Lg.



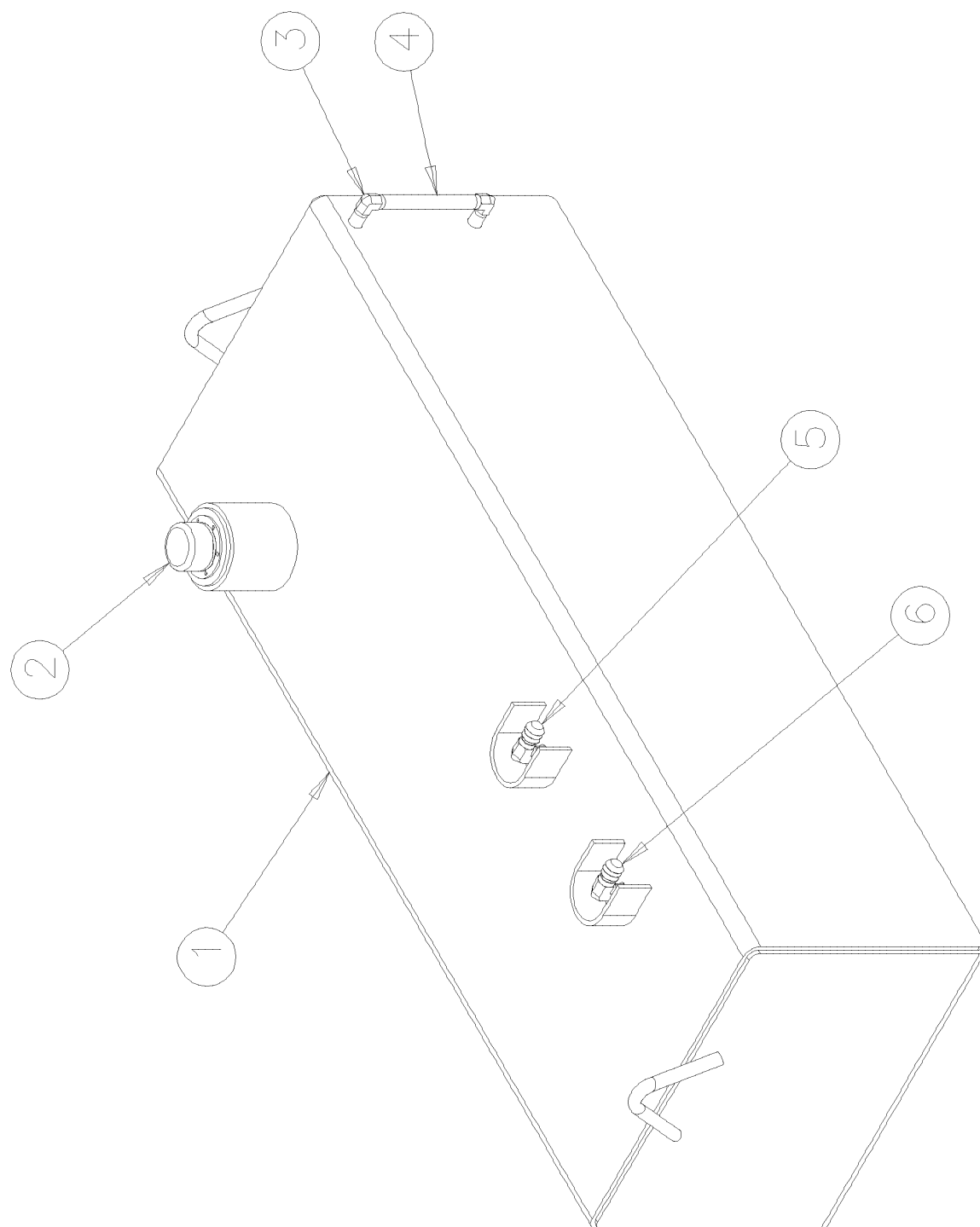
1	103329	2	COUNTER BALANCE CARTRIDGE
2		1	BODY, DUAL CROSS PILOTED



1	3543744	1	CYL, HYDRAULIC Dia2 1/2 BORE 2 1/2" BORE
2	3548271	1	TUBE, LH RIGID
3	36478	1	ADAP, #6 JIC x #6 ORB x 90Deg
4	33660	1	ADAP, HYD 6JIC x 6 ORB
5	44195	1	ADAP, HYD 6 ORB PLUG
6	3548403	2	NUT, 3/8 JIC TUBE FITTING
7	3548404	2	SLEEVE, 3/8 JIC TUBE FITTING
8	3548405	2	CLAMP, 4" ID BAND

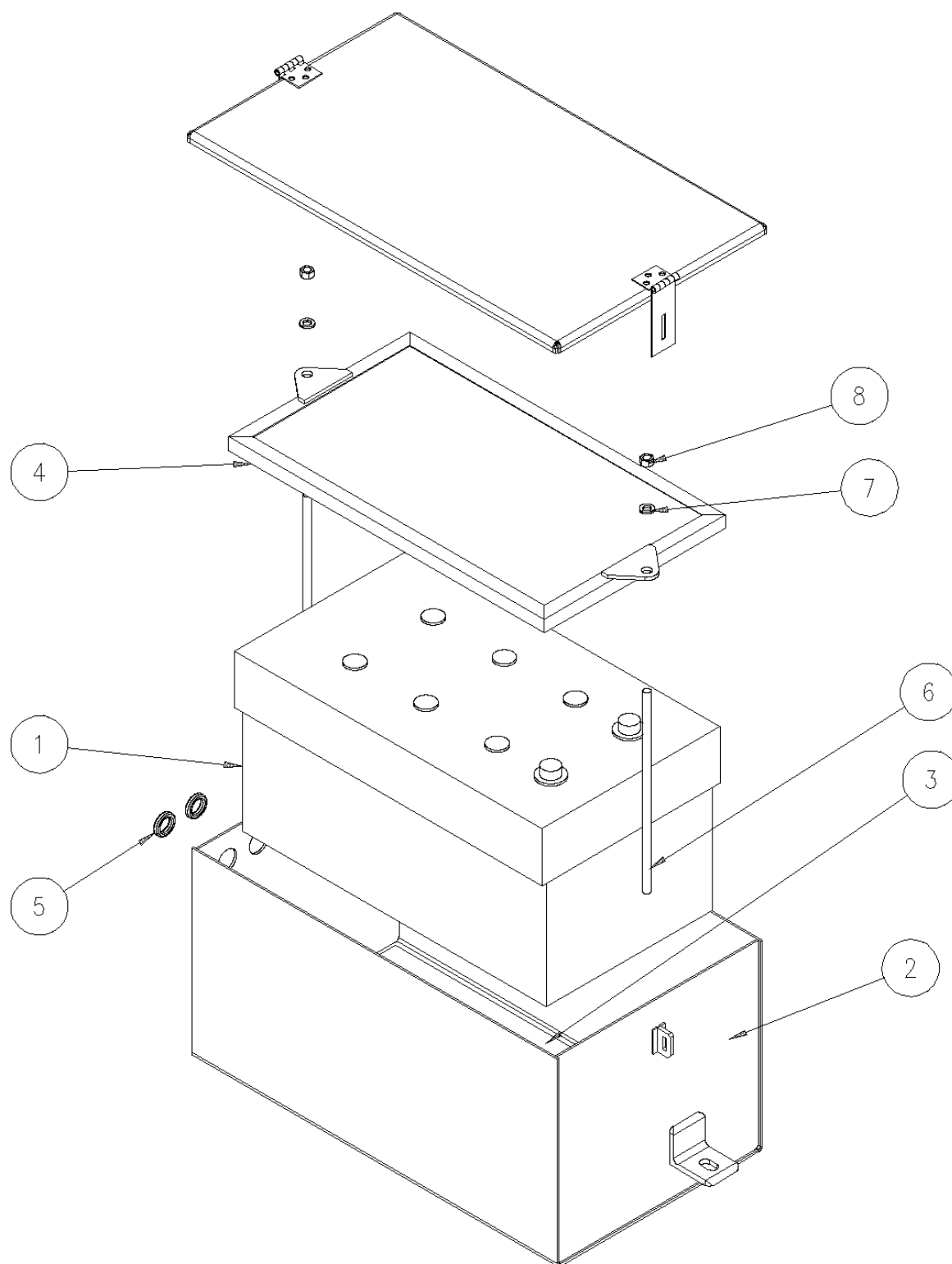


1	3543744	1	CYL, HYDRAULIC Dia2 1/2 BORE 2 1/2" BORE
2	3548269	1	TUBE, RH RIGID
3	36478	1	ADAP, #6 JIC x #6 ORB x 90Deg
4	33660	1	ADAP, HYD 6JIC x 6 ORB
5	44195	1	ADAP, HYD 6 ORB PLUG
6	3548403	2	NUT, 3/8 JIC TUBE FITTING
7	3548404	2	SLEEVE, 3/8 JIC TUBE FITTING
8	3548405	2	CLAMP, 4" ID BAND

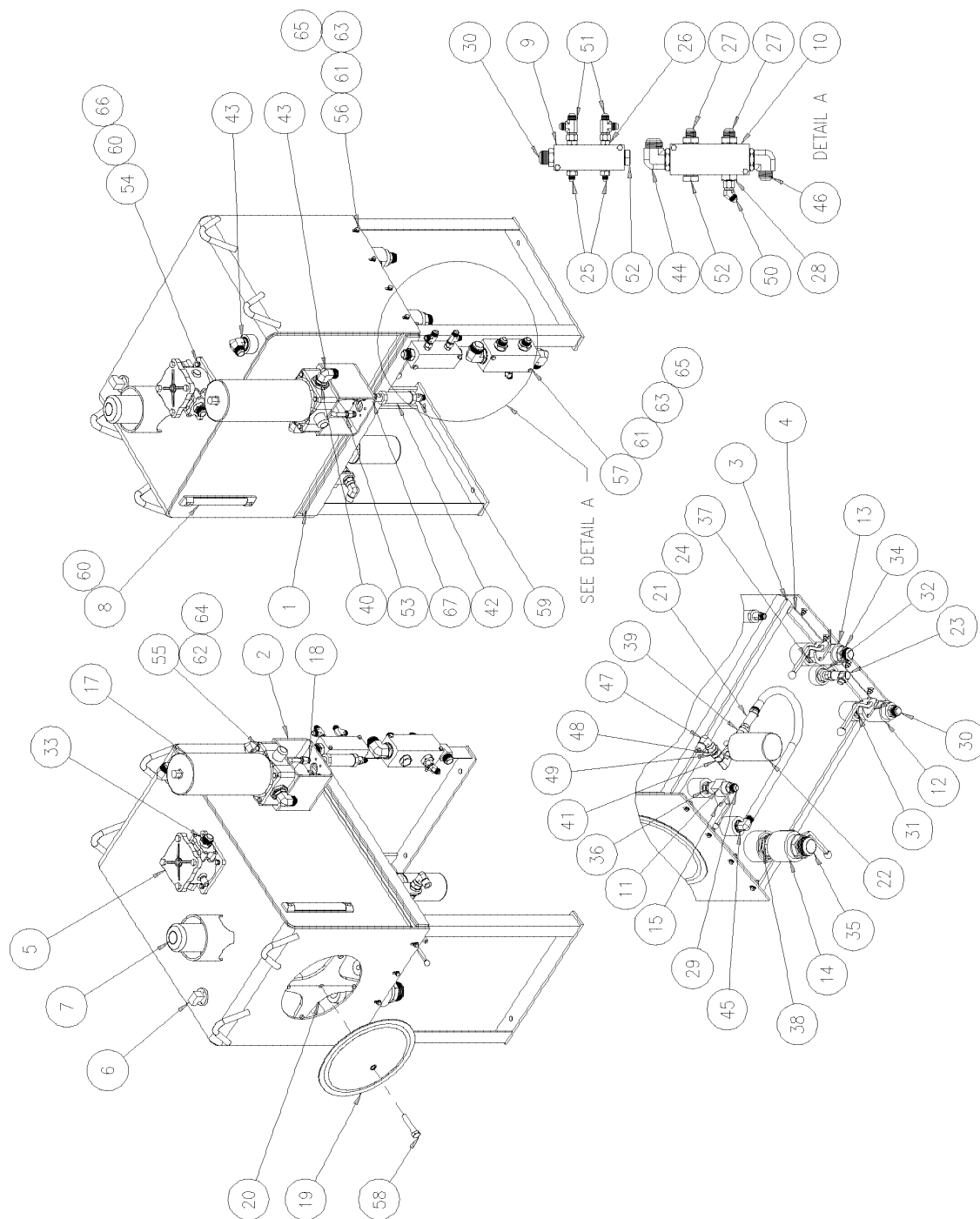


3547168 FUEL TANK ASSEMBLY

1	3547221	1	WELDMENT, FUEL TANK
2	100290	1	FILLER, BREATHER CAP
3	100996	2	FITTING, HOSE END
4	102017	1	HOSE, CLEAR PLASTIC 3/8 ID
5		1	ADAPTER
6		1	ADAPTER

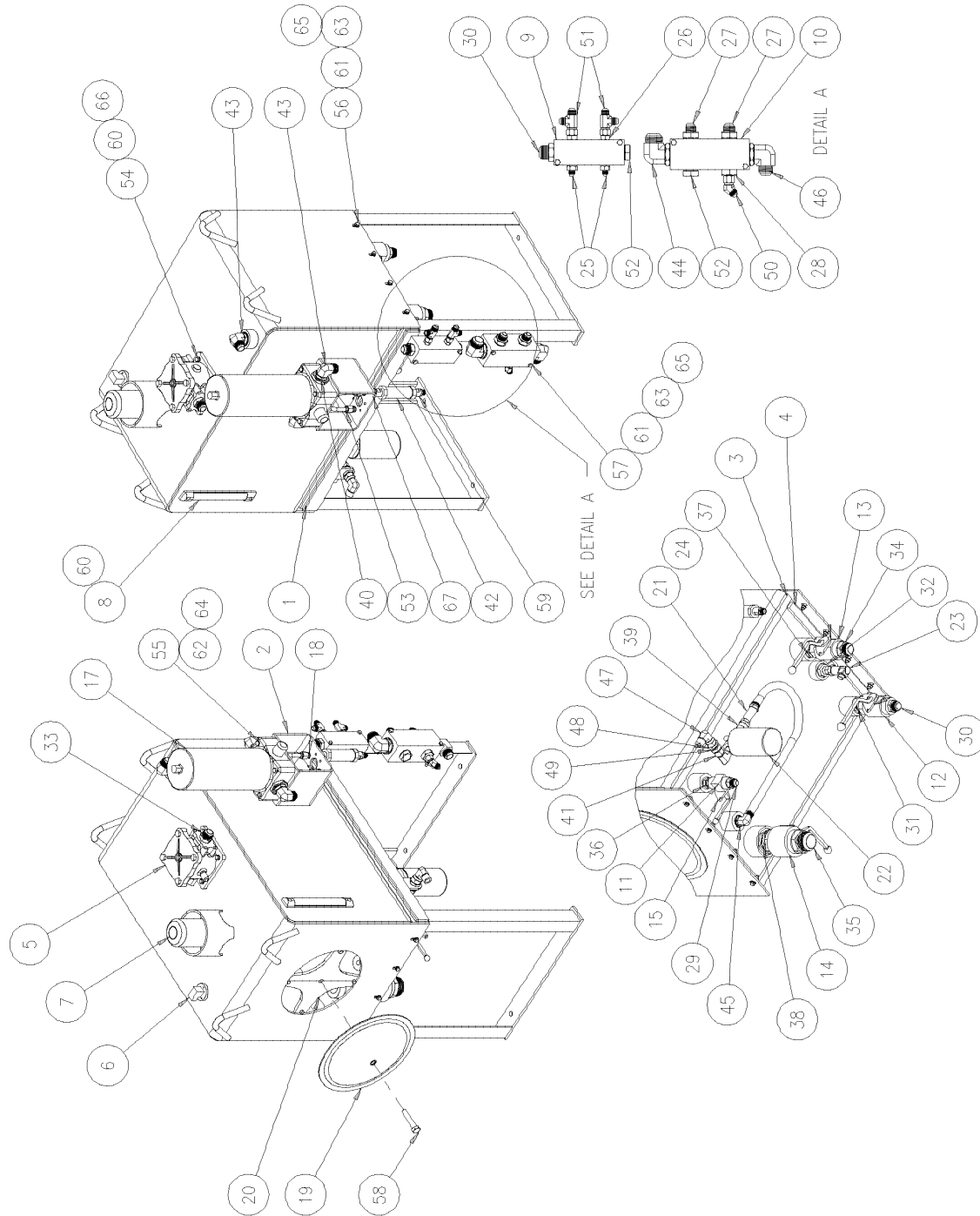


1	3546762	1	BATTERY, 8D SERIES 12V
2	3546764	1	BOX, 12V BATTERY
3	3546769	1	PAD, 12V BATTERY ISOLATOR
4	3546765	1	RETAINER, 12V BATTERY
5	3541367	6	GROMMET, 3/4 ID
6	5002864	2	ROD, THREADED
7	44520	2	L/WASHER, 3/8 SAE G8
8	44527	2	NUT, HEX 3/8-16UNC

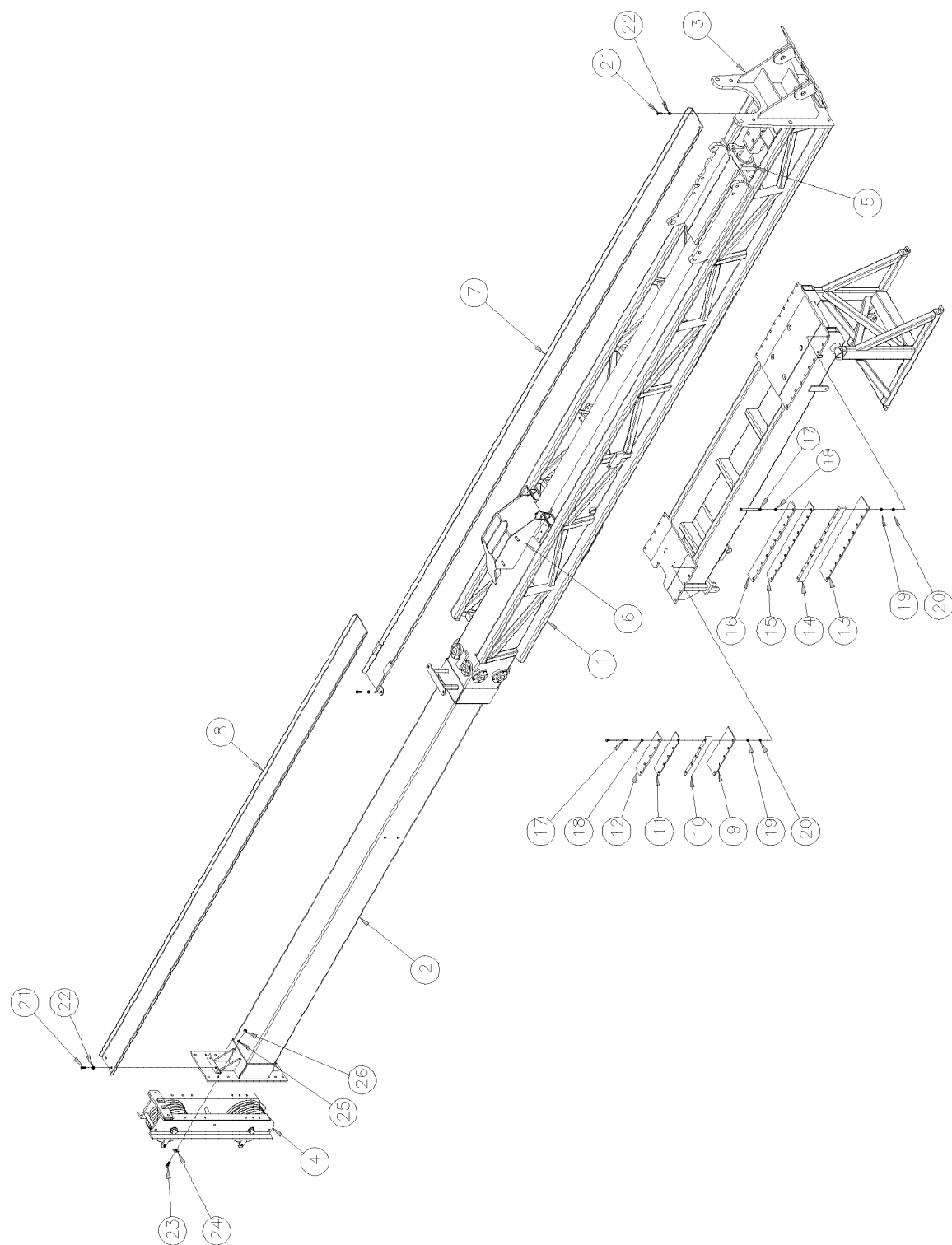


1	3547171	1	TANK STAND WELDMENT
2	3547453	1	HYDRAULIC TANK WELDMENT
3	3544315	2	STRIP, RUBBER 1/2x1-1/2x33
4	3544316	2	STRIP, RUBBER 1/2x1-1/2x18-1/4
5 00	5000314	1	RETURN FILTER ASM, 18" (ELEMENT # 100236) QTY 2
6	3547604	1	GAUGE, FLOAT LEVEL
7 00	3547605	1	FILTER, BREATHER (ELEMENT # 3547872)
8	3543274	1	GAUGE, FLUID LEVEL
9	3547606	1	MANIFOLD, RETURN
10	3547607	1	MANIFOLD, RETURN
11	3547618	1	VALVE, BALL O-RING 3/4"
12	3546945	1	VALVE, BALL 1" ORB
13	3547619	1	VALVE, BALL O-RING 1 1/4"
14	3547620	1	VALVE, BALL 2" DIA ORB
17 00	3547608	1	FILTER, HIGH PRESSURE (ELEMENT # 100236)
18	31185	1	ADAP, HYD #8JIC x #8JIC BULKHEAD
19	104245	1	COVER, END RESERVOIR
20	3544202	1	BAR, COVER X
21	3544141	1	VALVE, CHECK INLINE 12JIC
22 00	3547610	1	FILTER, SPIN-ON (ELEMENT BLI - 3547872)
23	3547651	1	SWITCH, TEMPERATURE 160°F
24	3548675	1	HOSE ASM, 12 JIC x 12 JIC x 28" Lg.
25	39224	2	ADAP, #6 JIC x #8 ORB
26	3540740	2	ADAP, HYD RESTRICT.8 JIC x 8 ORB
27	37839	2	ADAPT, HYD #16 SAE x #12 JIC
28	33645	1	ADAP, HYD STR #8 JIC x #16 ORB
29	36463	1	ADAP, #12 JIC x #12 ORB
30	25470	2	ADAP, HYD 16JIC x 16 ORB
31	101639	1	ADAP, HYD UNION #16 (M) ORB
32	3548636	1	ADAP, HYD STR 16 ORB x 8 NPT(F)
33	32967	1	ADAP, HYD STR 20 JIC x 24 ORB
34	33108	1	ADAP, HYD STR 20 JIC x 20 ORB
35	33659	1	ADAP, HYD STR 32 JIC x 32 ORB
36	3548483	1	ADAP, HYD STR 12 ORB x 12 ORB
37	3548482	1	ADAP, HYD STR 20 ORB x 20 ORB
38	3548481	1	ADAP, HYD STR 32 ORB x 32 ORB
39	102962	1	ADAP, HYD 12NPT x 12JIC SWIVEL
40	102183	2	ADAPT, HYD #16 SAE(F) x #24 SAE
41	37943	1	ADAP, HYD 12NPT x 12JIC SWIV 90Deg
42	3548231	1	FLOW METER
43	36424	3	ADAP, HYD 16 JIC x 16 ORB x 90Deg

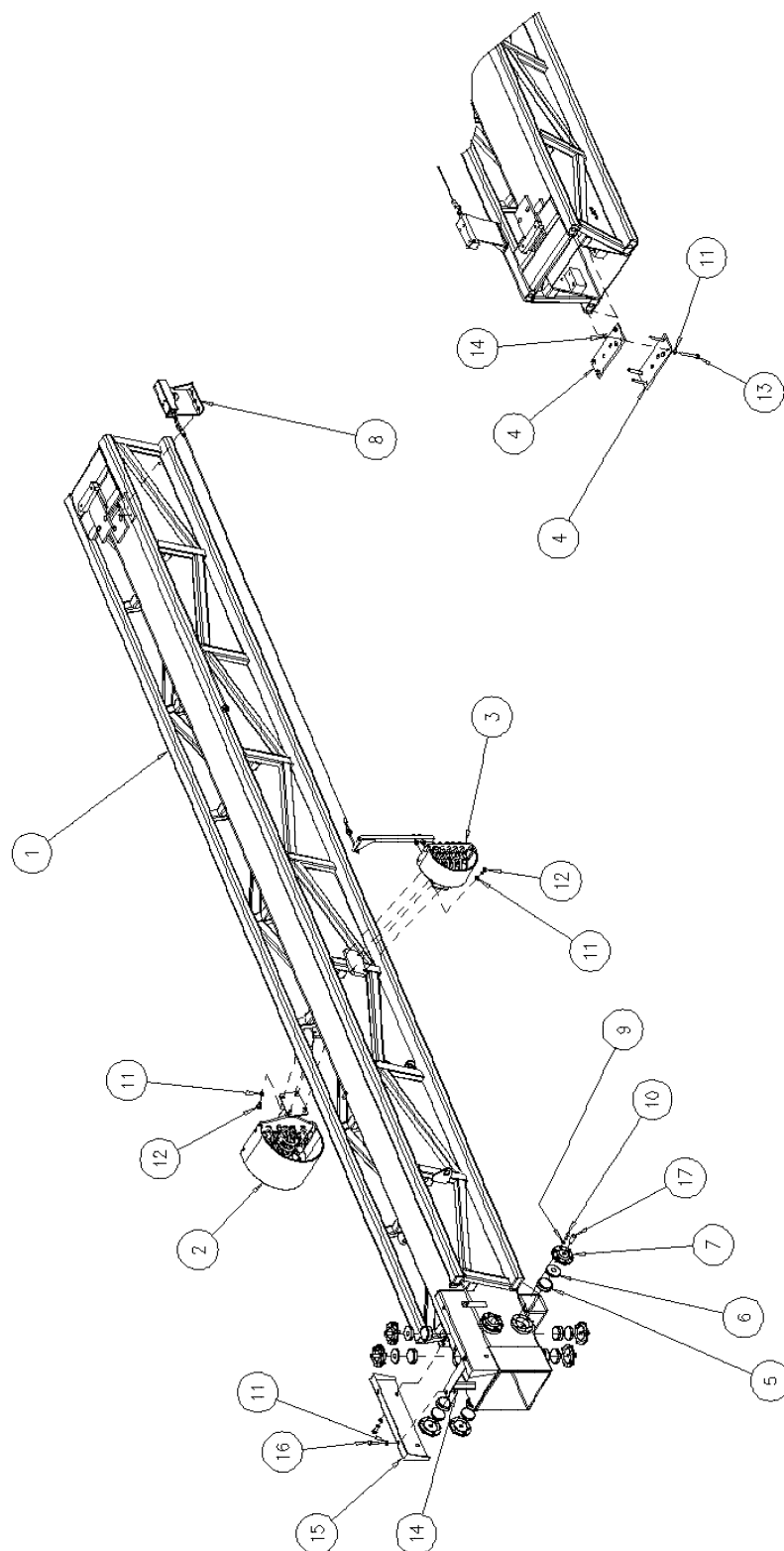
00) INCLUDED IN HYD FILTER ELEMENT SPARES KIT 5005207



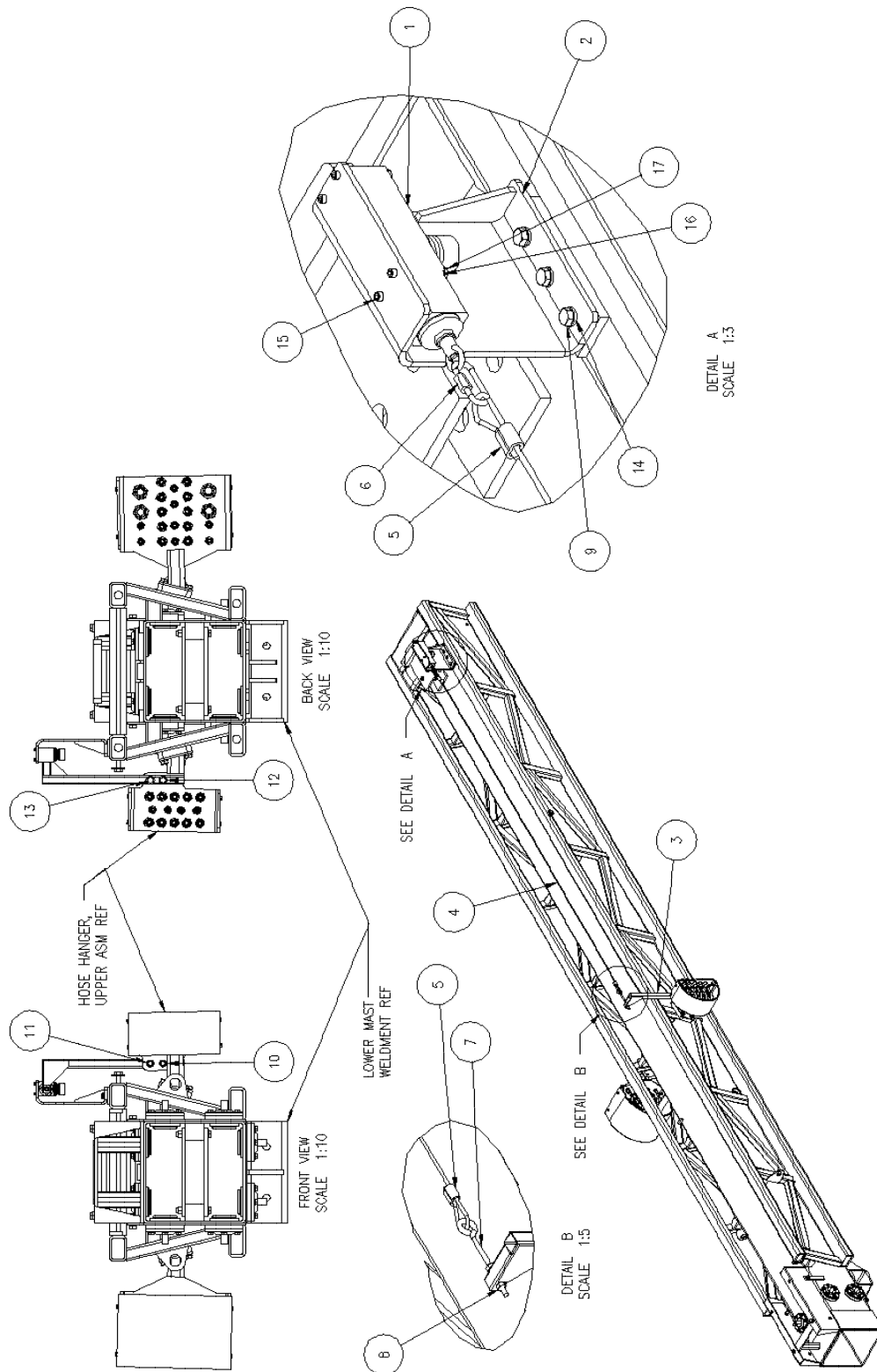
44	36442	1	ADAP, HYD 90° 20 JIC x 20 ORB
45	36980	1	ADAP, HYD 12 JIC x 12 ORB x 90Deg
46	39197	1	ADAP, HYD 90° 16 JIC x 20 ORB
47	3548670	1	ADAP, HYD 90° 12 JIC (F) x 12 ORB
48	36514	1	ADAP, HYD #12 JIC BLKHD
49	3548673	1	NUT, BLKHD -12
50	33748	1	ADAPT, HYD #8 JIC x #8 JIC(F) x 45°
51	33429	2	ADAP, HYD TEE 8 JIC
52	34344	2	PLUG, ORB
53	3541155	1	TUBE ASM, HYD 1/2" OD
54	44512	4	C/SCR, HH 3/8 UNC x 1 LG
55	44858	4	C/SCR, HH 3/8-16 UNC x 3-1/2 GR8
56	44557	8	C/SCR, HH 5/16-18UNC x 1 1/4
57	46054	4	C/SCR, HH 5/16-18UNC x 4 GR8
58	47843	1	C/SCR HH 5/8-11NC x 3-1/4 LG
59	18891	4	ADAP, #8 JIC x 1/2 NPT - [L.C. #91116-808]
60	44520	8	L/WASHER, 3/8 SAE G8
61	44519	12	L/WASHER, 5/16 SAE G8
62	44527	4	NUT, HEX 3/8-16UNC
63	44552	12	NUT, HEX 5/16-18UNC
64	44859	4	WASHER, FLAT 3/8 SAE G8
65	46510	20	WASHER, FLAT 5/16 SAE G8
66	3547603	4	WASHER, SEALING
67	33997	1	ADAP, HYD 8 JIC (F) x 8 NPT



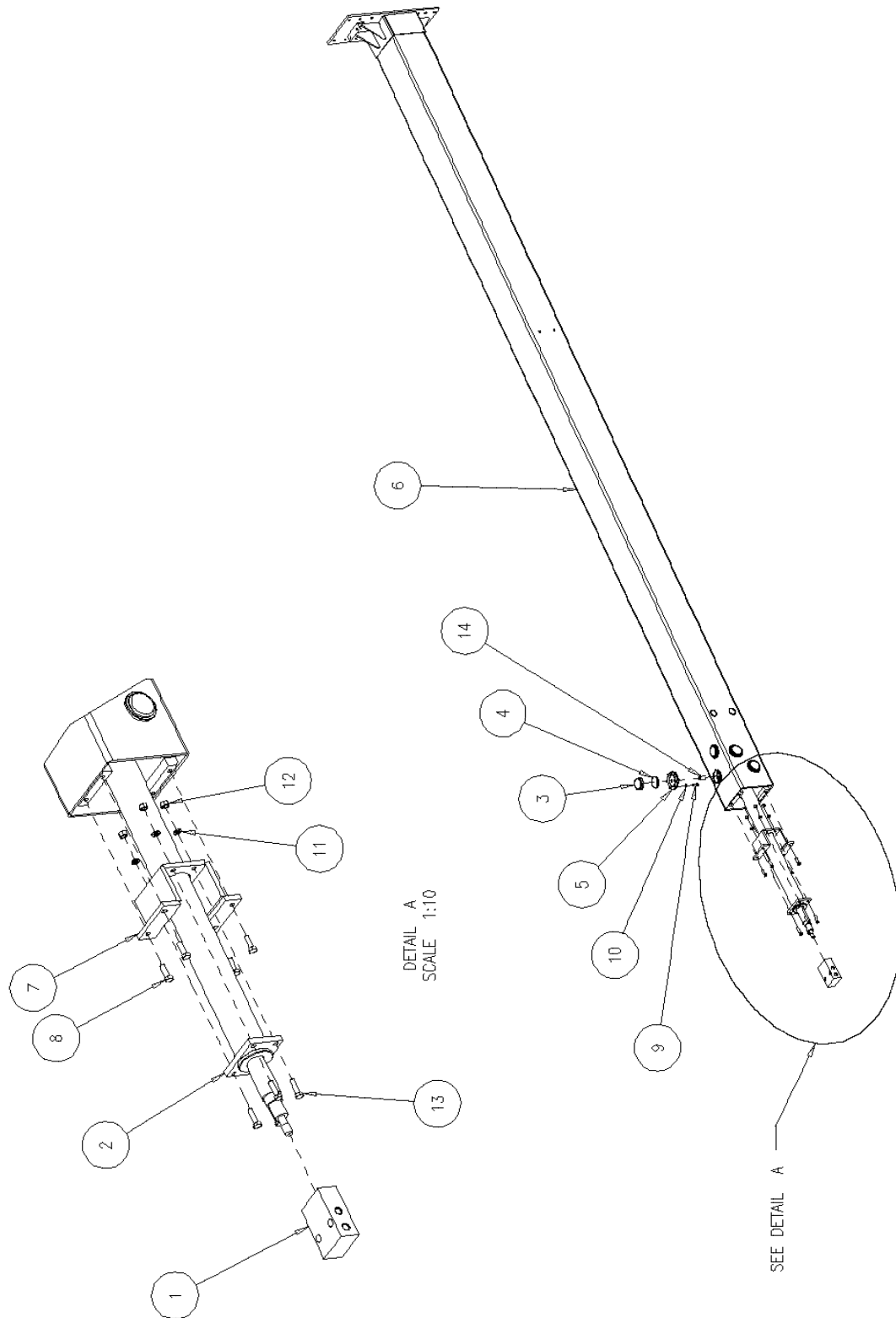
1	3547183	1	LOWER MAST ASSEMBLY (Page 34)
2	3547185	1	UPPER MAST ASSEMBLY (Page 38)
3	3547768	1	FOOT PLATE ASSEMBLY (Page 40)
4	3547172	1	CROWN BLOCK ASSEMBLY (Page 42)
5	3547734	1	SLIDE ASSEMBLY (Page 44)
6	3547770	1	ROD GUIDE ASSEMBLY (Page 50)
7	3547517	1	ROD TRAY, LOWER
8	3547521	1	ROD TRAY, UPPER
9	3547541	2	WEAR PAD, MAST SLIDE SHORT
10	3547525	2	SPACER, ALUMINUM
11	3547539	2	WEAR PAD, MAST SLIDE SHORT
12	3547527	2	CLAMPING PLATE, UPPER
13	3547540	2	WEAR PAD, MAST SLIDE LONG
14	3547524	2	SPACER, ALUMINUM
15	3547542	2	WEAR PAD, MAST SLIDE LONG
16	3547526	2	CLAMPING PLATE, LOWER
17		30	C/SCR, HH
18		30	FLATWASHER
19		30	LOCKWASHER
20		30	NUT
21		6	C/SCR
22		6	LOCKWASHER
23		12	C/SCR
24		12	BEVEL WASHER
25		12	LOCKWASHER
26		12	NUT
27	3547535	1	GUARD, PQ HEAD NOT SHOWN



1	3547191	1	LOWER MAST WELDMENT
2	3547706	1	ASSEMBLY, HOSE HANGER
3	3547709	1	ASSEMBLY, HOSE HANGER
4	3547195	2	MOUNT, EXTEND CYLINDER
5	3547192	8	PAD, WEAR
6	3547193	8	PLATE, PAD BACKUP
7	3547194	8	COVER, PAD HOUSING
8	3549281	1	EMERGENCY STOP INSTALLATION (Page 36)
9	44520	48	L/WASHER, 3/8 SAE G8
10	44512	48	C/SCR, HH 3/8 UNC x 1 LG
11	44521	16	L/WASHER, SPLIT SPRING 1/2"
12	44513	8	C/SCR, HH 1/2-13UNC x 1 LG
13	44860	4	C/SCR, HH 1/2-13 UNC x 3-3/4
14	44525	8	NUT, HEX 1/2-13 UNC
15	5000246	2	GUARD, FINGER
16	44510	4	C/SCR, HH 1/2-13 UNC x 1-1/2
17	3542733	8	S/SCR, HS 3/4-16NF x 2.00 Lg.

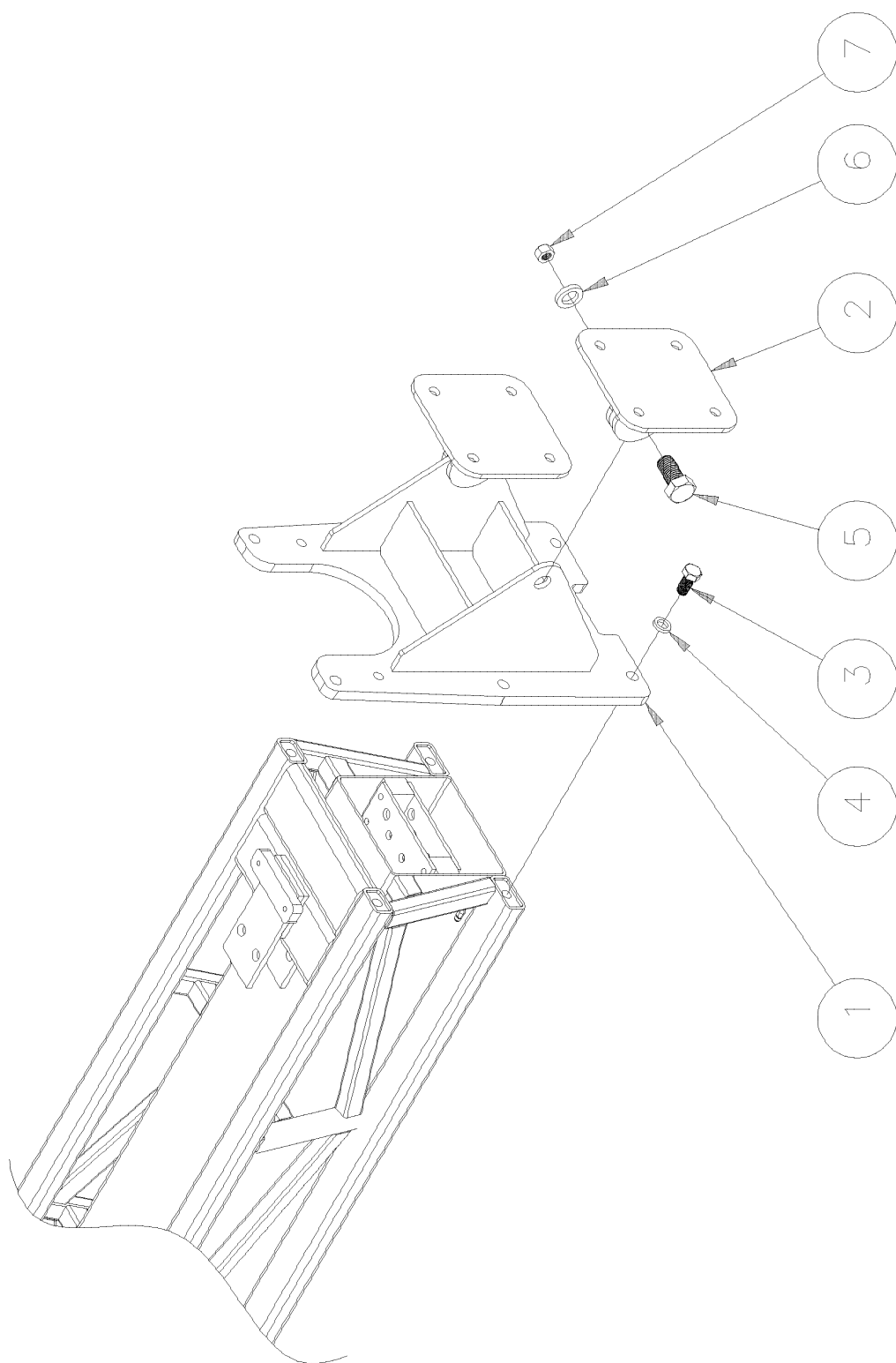


1	3549005	1	SWITCH, EMERGENCY STOP
2	3549282	1	BRACKET, LOWER
3	3549283	1	BRACKET, UPPER
4	3549289	1	CABLE, TRIP WIRE 3/16" COATED
5	3549187	2	SLEEVE, 1/8 OVAL
6	3549183	1	LINK, 3/16 QUICK
7	3549184	1	EYEBOLT, 5/16 - 18 UNC x 6
8	44552	3	NUT, HEX 5/16-18UNC
9	44668	3	C/SCR, HH 3/8 UNC x 5/8 LG.
10	44660	2	L/WASHER, SPLIT SPRING 7/16 ID
11	44680	2	NUT, HEX 7/16-14 3B
12	45867	2	WASHER, FLAT 7/16 ID
13	44801	2	C/SCR, HH 7/16 - 14 UNC X 2
14	44520	3	L/WASHER, 3/8 SAE G8
15	3548773	4	C/SCR, SH 10-24 UNC X 2-1/4
16	44540	4	L/WASHER, SPLIT SPRING #10
17	44541	4	NUT, HEX 10-24 UNC



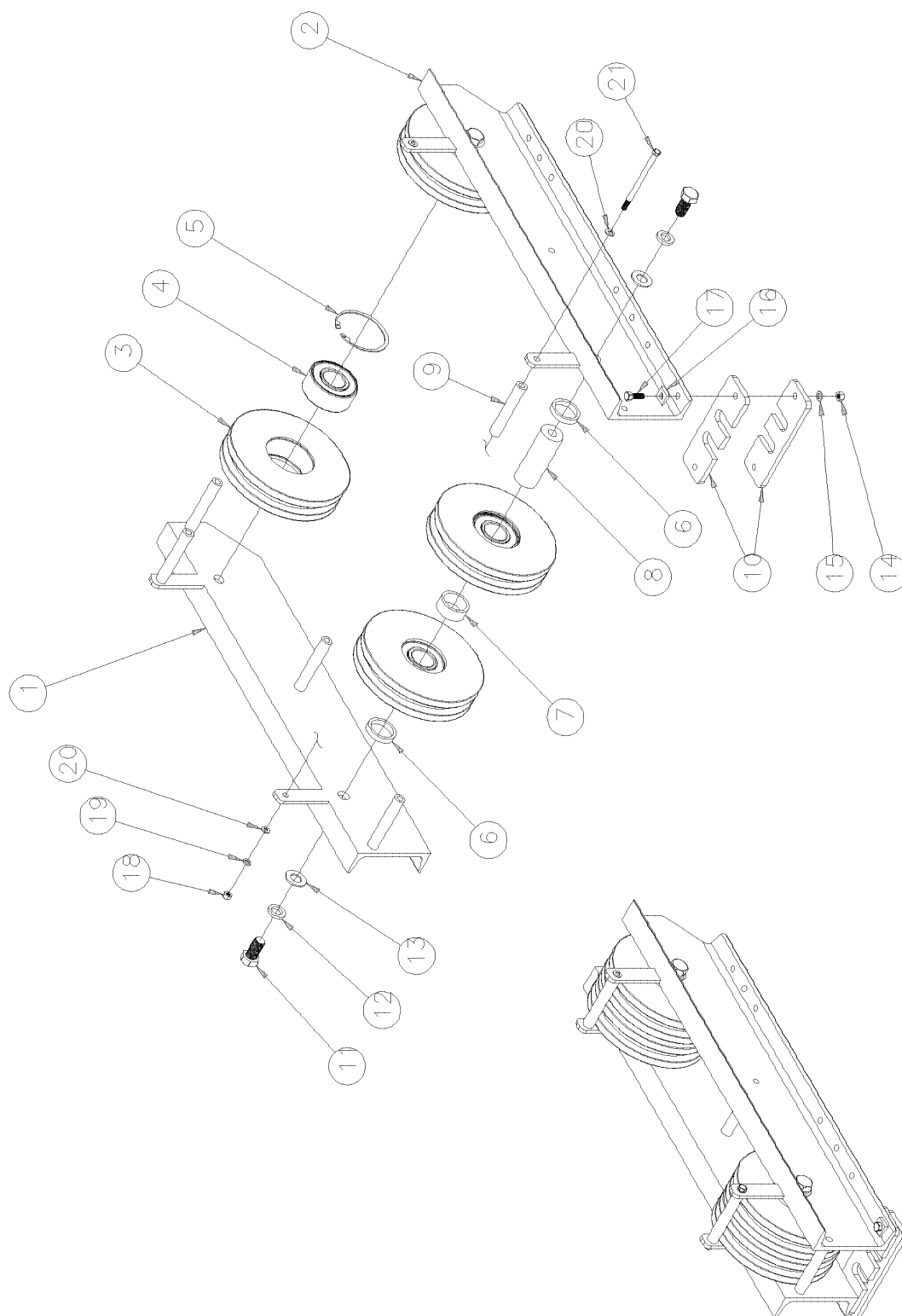
3547185 UPPER MAST ASSEMBLY

1	100176	1	MANIFOLD, CYL
2	3540675	1	CYL, HEAD SLIDE 11'
3	3547192	8	PAD, WEAR
4	3547193	8	PLATE, PAD BACKUP
5	3547194	8	COVER, PAD HOUSING
6	3547196	1	WELDMENT, UPPER MAST
7	3547197	1	MOUNT, EXTEND CYLINDER
8	44510	4	C/SCR, HH 1/2-13 UNC x 1-1/2
9	44512	48	C/SCR, HH 3/8 UNC x 1 LG
10	44520	48	L/WASHER, 3/8 SAE G8
11	44521	4	L/WASHER, SPLIT SPRING 1/2"
12	44525	4	NUT, HEX 1/2-13 UNC
13	44640	4	C/SCR, HH 1/2-13UNC x 1-3/4
14	3542733	8	S/SCR, HS 3/4-16NF x 2.00 Lg.
15			

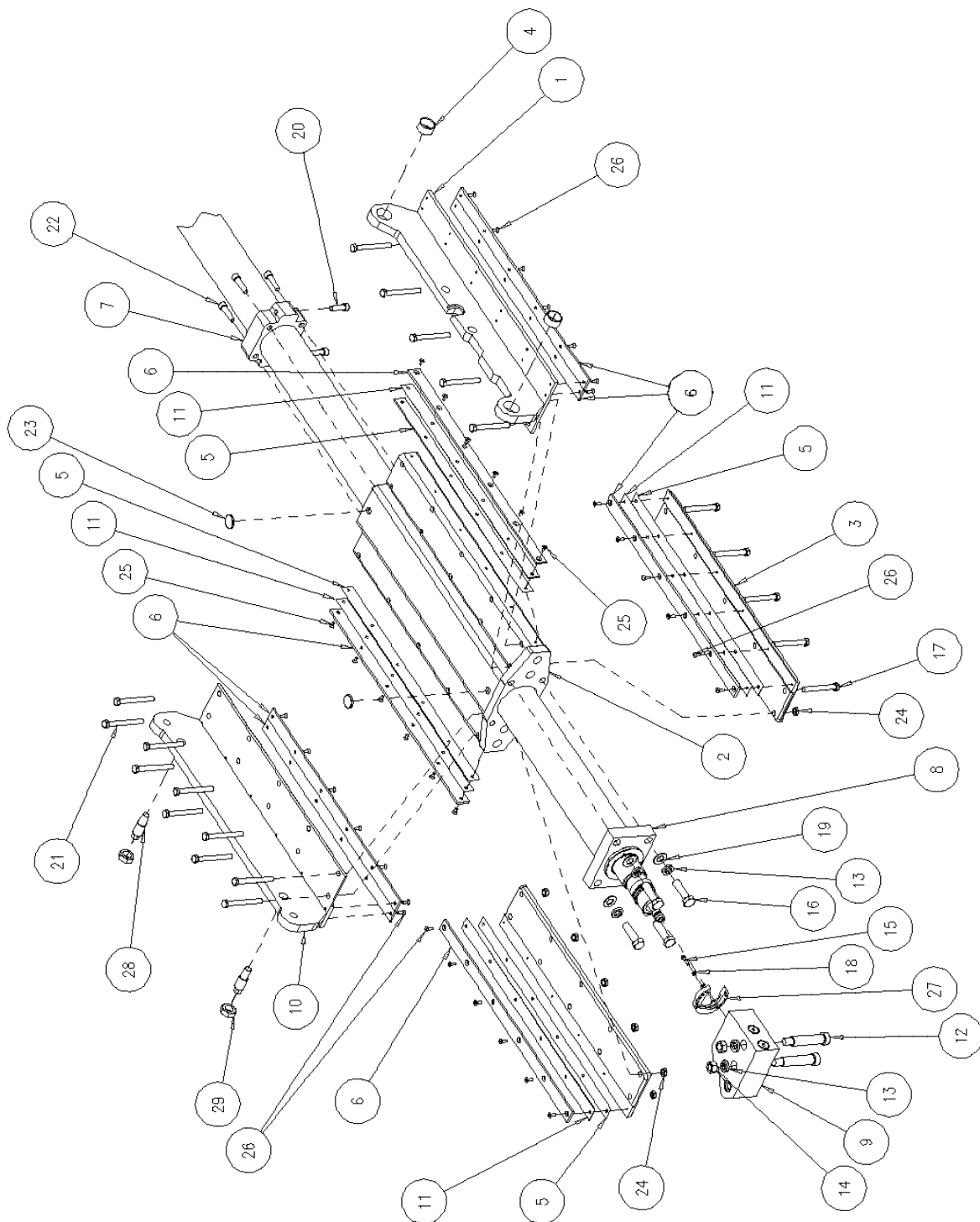


3547768 FOOT PLATE ASSEMBLY

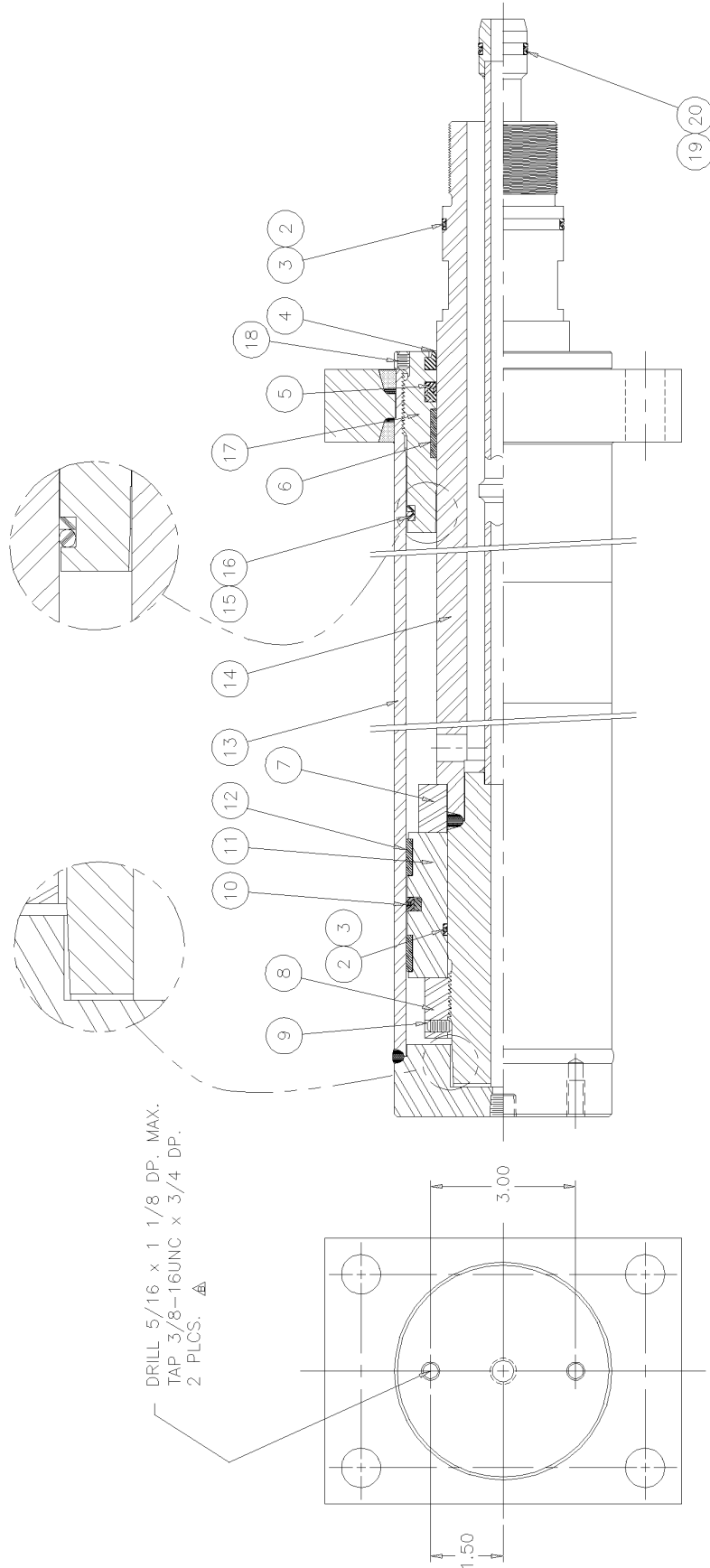
1	3547187	1	FOOT PLATE WELDMENT
2	3547519	2	FOOT, LOWER MAST
3		4	C/SCR
4		4	LOCKWASHER
5		2	C/SCR
6		2	LOCKWASHER
7		2	NUT



1	3547228	1	WELDMENT, SIDE LH
2	3547229	1	WELDMENT, SIDE RH
3	3547230	4	WHEEL, SHEAVE
4	3547231	4	BEARING
5	3548179	4	SNAP-RING
6	3547234	4	SPACER, SHORT
7	3547233	2	SPACER, LONG
8	3547232	2	SHAFT, AXLE
9	3547235	5	SPACER TUBE
10	3547522	2	GUIDE, CABLE
11	3540276	4	BOLT, HH 1 UNF x 2
12	44575	4	L/WASHER, SPLIT SPRING 1 ID
13	19464	4	WASHER, FLAT 1" ID
14	44525	2	NUT, HEX 1/2-13 UNC
15	44521	2	L/WASHER, SPLIT SPRING 1/2"
16	568511	2	WASHER, BEVEL
17	44651	2	C/SCR, HH 1/2-13UNC x 2-1/4
18	44525	5	NUT, HEX 1/2-13 UNC
19	44521	5	L/WASHER, SPLIT SPRING 1/2"
20	44621	10	WASHER, FLAT 1/2"
21	43511	2	C/SCR, HH 1/2-13 UNC x 7 1/2 Lg.

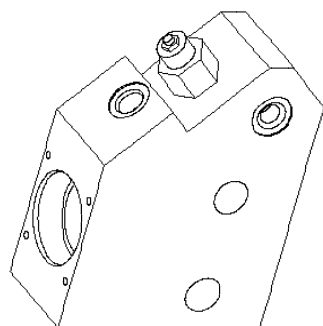


1	3547512	1	MOUNT, RIGHT HAND
2	3546156	1	MIDBODY, SLIDE FRAME
3	3546459	2	BOTTOM PLATE
4	3547394	2	BUSHING
5	3546460	4	SHIM, 28 Ga. (.018")
6	3547733	8	WEAR PAD
7	3546465	1	SUPPORT, FEED CYLINDER
8	3546100	1	CYLINDER, FEED 132" STROKE [4" Bore, 2 3/4" Rod]
9	3547769	1	MANIFOLD ASM, FEED CYLINDER (Page 48)
10	3547513	1	MOUNT, LEFT HAND
11	3546461	4	SHIM, 30 Ga. (.015")
12	35730	2	BOLT, SHOULDER 3/4 x 3" LG.
13	44523	6	L/WASHER, SPLIT SPRING 3/4
14	44524	2	NUT, HEX 3/4-10 UNC
15	44566	2	C/SCR, HH 1/4-20UNC x 1 LG
16	44569	4	C/SCR, HH 3/4-10 UNC x 2-3/4 G8
17	44578	5	C/SCR, HH 1/2-13 UNC x 4
18	46087	2	WASHER, FLAT 1/4
19	46091	4	WASHER, FLAT Dia3/4 (SAE)
20	46102	2	C/SCR SH 1/2-13 NC x 1-3/4Lg.
21	46124	15	C/SCR, HH 1/2-13 UNC x 4-1/2 - [L.C. #90214-340]
22	47568	4	C/SCR, SH 1/2UNC x 2 LG
23	100879	2	PAD, WEAR
24	101061	15	LOCKNUT, 1/2-13UNC STOVER
25	102166	12	M/SCR, FH 1/4 UNC X 1/2
26	102229	36	C/SCR, SH FL/HD 1/4-20 x 3/4
27	3546464	1	RING, FEED CYLINDER ROD LOCKING
28	3547392	2	TAPERED PIN
29	3547735	2	NUT, JAM 1" UNF
30	3547790	1	EXTENSION, FEED CYLINDER Not Shown

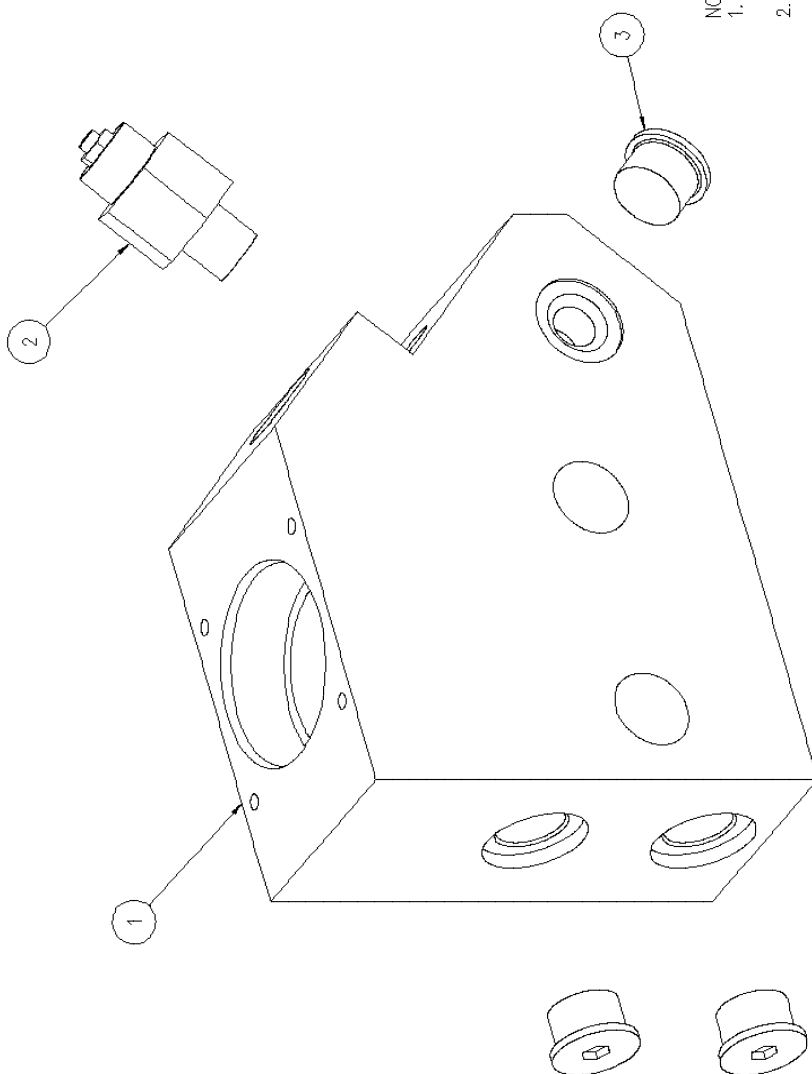


2	00		4	RING, BACKUP #141
3	00		2	O-RING, #141
4	00		1	WIPER, ROD
5	00		1	SEAL, ROD
6	00		1	RING, GLAND WEAR
7			1	SPACER
8			1	NUT, PISTON
9		44682	2	S/SCR, SH 1/4-20 x 1/2 Lg
10	00		1	SEAL, PISTON
11			1	PISTON
12	00		2	RING, PISTON WEAR
13			1	CASE WELDMENT
14			1	ROD WELDMENT
15	00	37924	1	O-RING, #2-342
16	00		1	RING, BACKUP #342
17			1	GLAND, HEAD
18		44663	2	S/SCR, SH 1/4-20 x 3/8 Lg.
19	00		1	O-RING, #117
20	00		2	RING, BACKUP #117

00) Included in Seal Kit 3546115

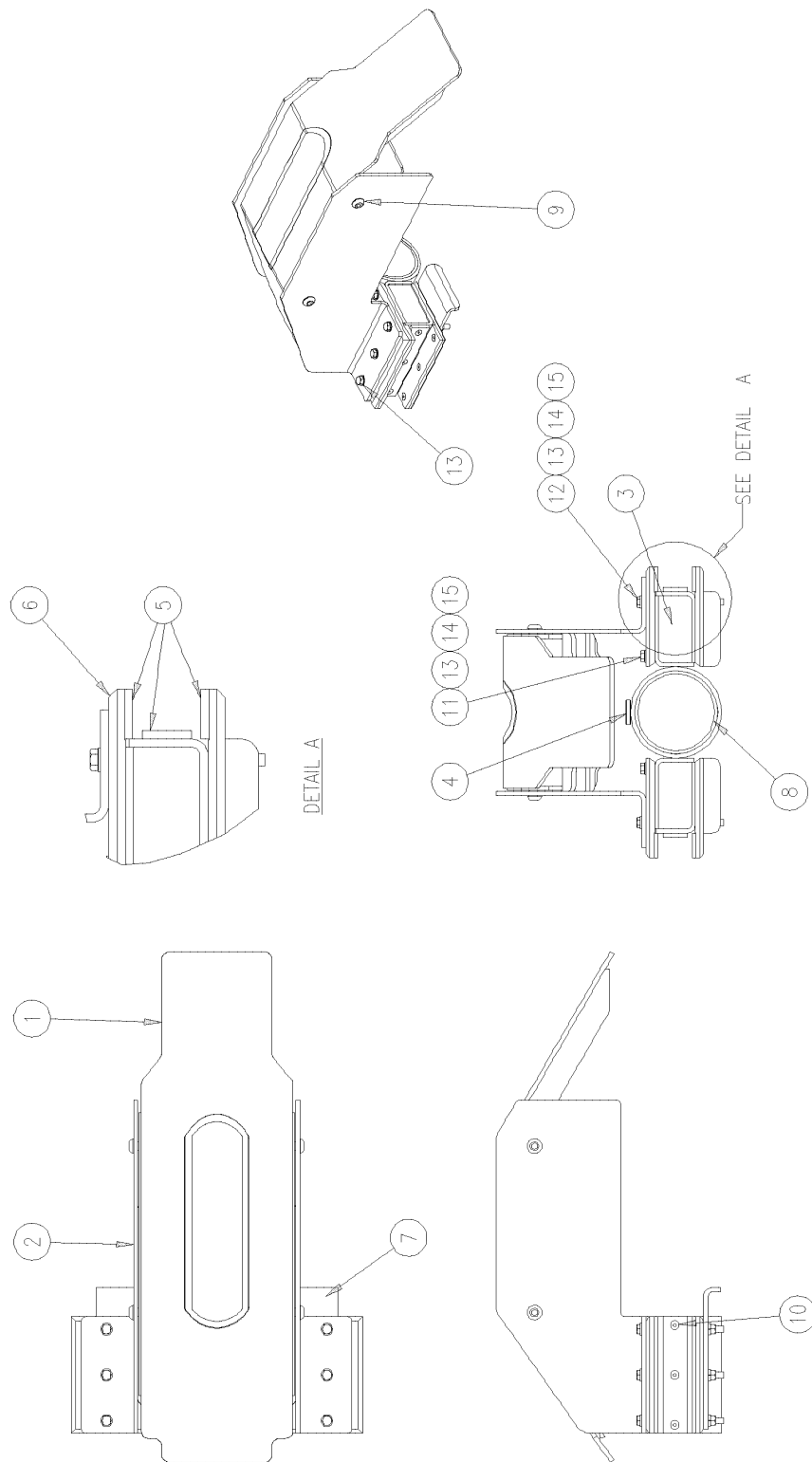


NOTE:
 1. TORQUE ITEM 2 COUNTERBALANCE VALVE CARTRIDGE
 45 TO 50 FOOT-POUNDS.
 2. TORQUE ITEM 3 (PLUG) 70 TO 80 FOOT-POUNDS

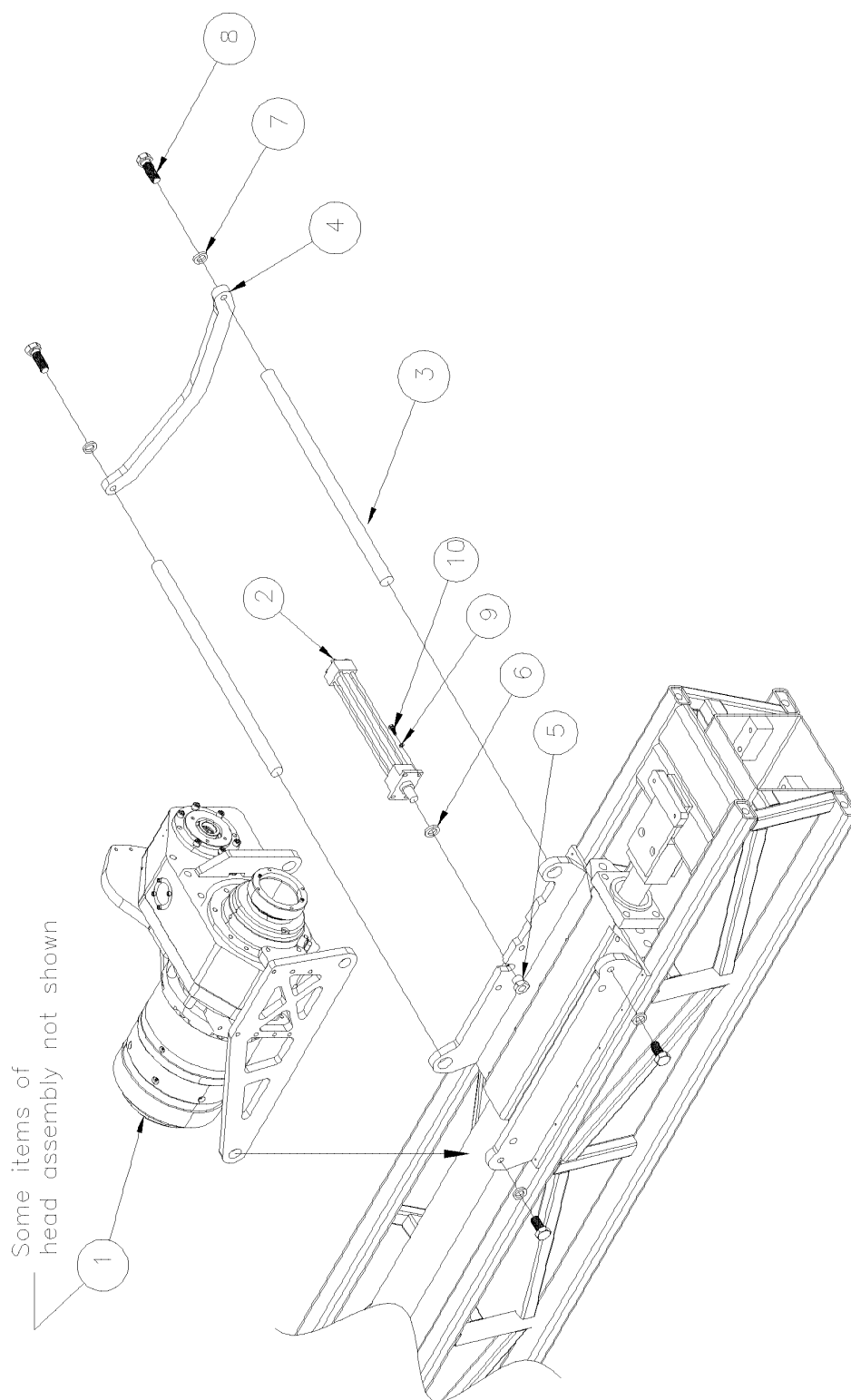


3547769 MANIFOLD ASM, FEED CYLINDER

1	3548222	1	MANIFOLD, FEED CYLINDER
2	104864	1	CARTRIDGE, HYD COUNTERBALANCE
3	37946	3	ADAP, PLUG #10 ORB

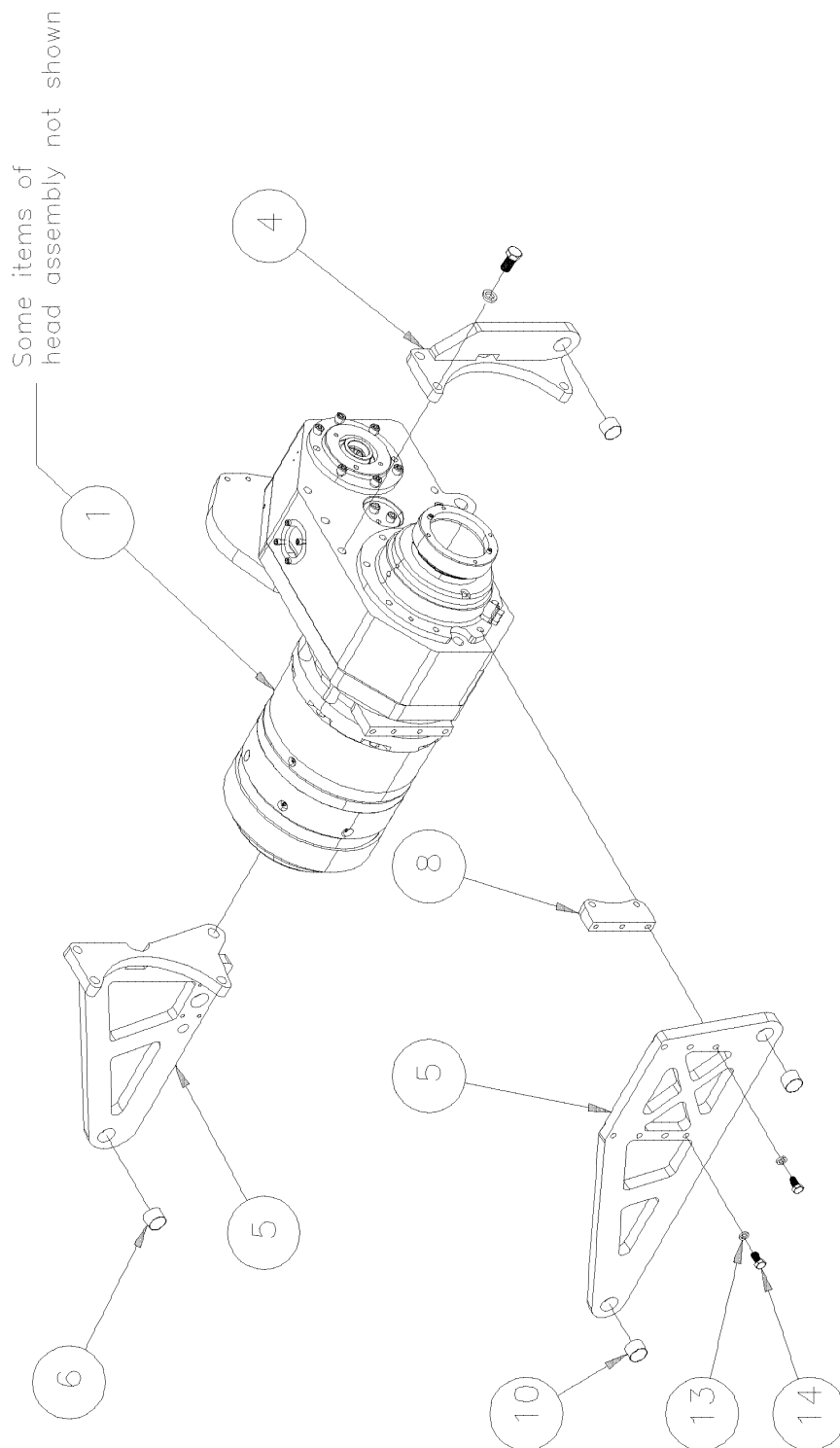


1	3547755	1	GUIDE, SLIDING ROD
2	3547767	1	GUIDE, SLIDING ROD
3	3546509	1	CARRIAGE, ROD GUIDE
4	100879	1	PAD, WEAR
5	3546513	6	BAR, ROD SLIDE WEAR
6	3546514	4	PLATE, ROD SLIDE CLAMPING
7	3547791	2	PLATES, ROD SLIDE STOP
8	3546514	4	PLATE, ROD SLIDE CLAMPING
9	101965	4	C/SCR, BTN HD SOC 1/2 UNC x 1
10	3543902	18	M/SCR, FH 1/4-20 x 1/2 LG
11	45589	6	C/SCR, HH 3/8-16 UNC x 4 1/2
12	50872	6	C/SCR, HH 3/8-16UNC x 5 LG
13	44859	12	WASHER, FLAT 3/8 SAE G8
14	44520	12	L/WASHER, 3/8 SAE G8
15	44527	12	NUT, HEX 3/8-16UNC

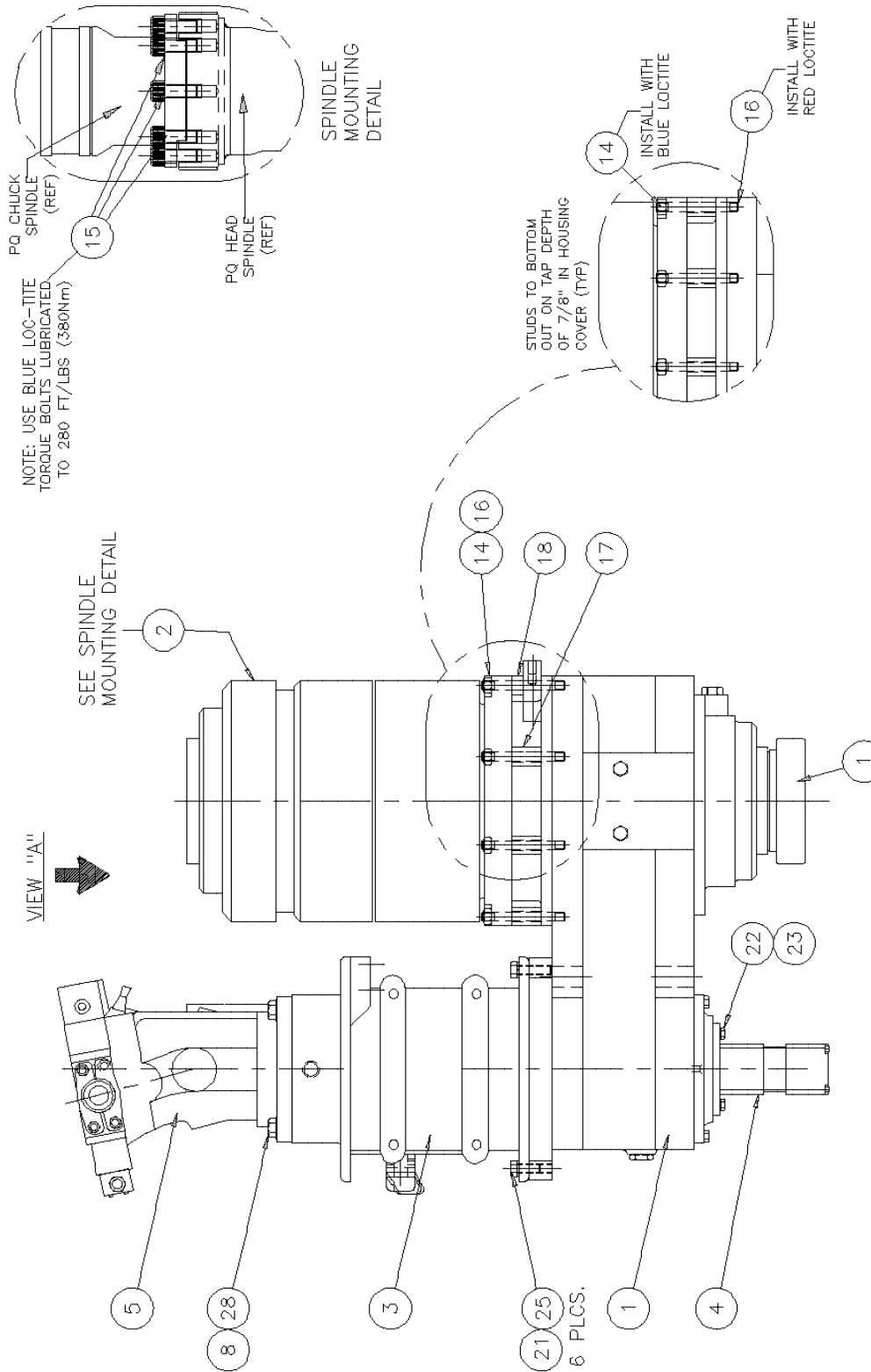


1	3547366	1	DRIVE MODULE, PQ (Page 54)
2 00	5000071	1	CYLINDER, HEAD OPENER
3	3547391	2	BAR, GUIDE
4	3547389	1	END PLATE, RIGHT SIDE
5	3547390	1	NUT, FLANGE
6	3547393	1	WASHER
7		4	LOCKWASHER
8		4	C/SCR
9		4	LOCKWASHER
10		4	C/SCR

00) FOR DRILLS PRIOR TO SERIAL NUMBER 2008-49 USE 5001575 SEAL KIT. FOR DRILLS SERIAL NUMBER 2008-49 AND UP USE 5001574



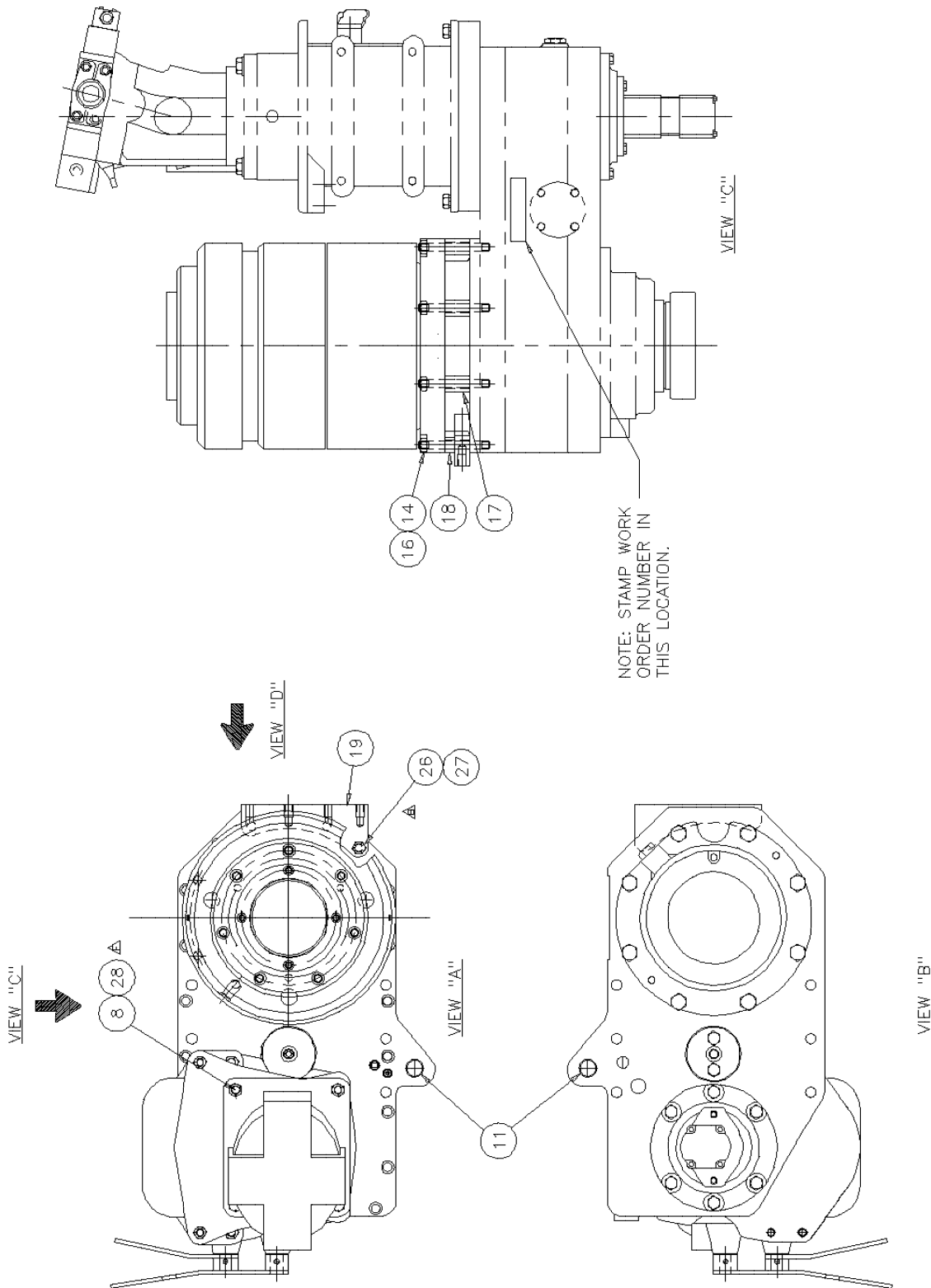
1	3547379	1	HEAD ASSEMBLY LF90D (Page 56)
2	3547383	1	MOUNT
3	3547382	1	MOUNT
4	3547380	1	MOUNT, LOWER
5	3547381	1	MOUNT, UPPER
6	3547394	4	BUSHING
7	3547395	1	HOSE HANGER
8	3547546	1	HEAD PIPING GROUP (Page 88)



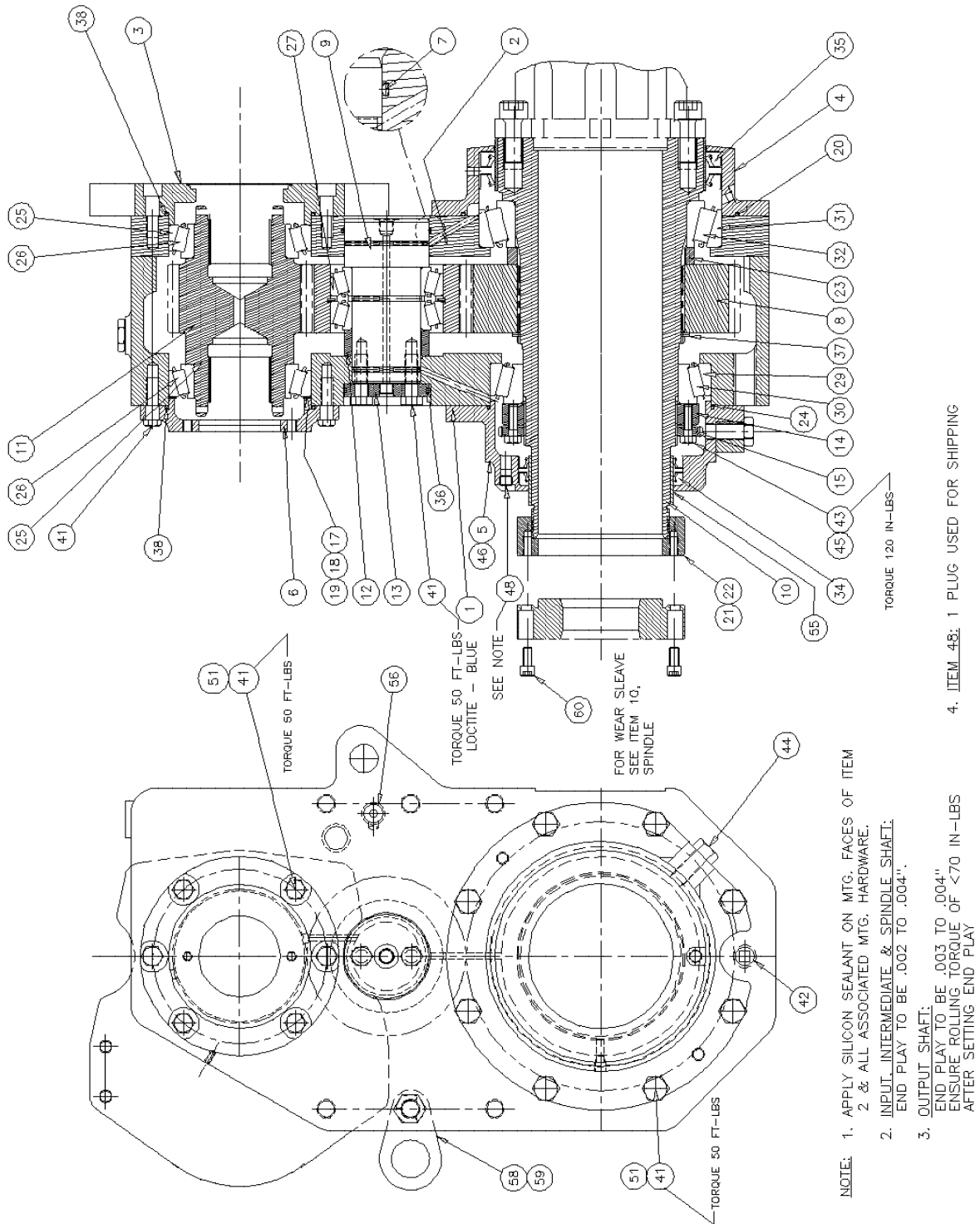
1	3547367	1	HEAD ASSEMBLY, BASIC 90D (Page 60)
2	3542840	1	CHUCK ASM, PQ NITROGEN GAS (Page 66)
3	3547405	1	TRANSMISSION, LF90D SUB ASM. (Page 70)
4 01	3548230	1	PUMP, HEAD COOLING CIRCUIT
5 00	103816	1	MOTOR, HYDRAULIC
8	44523	4	L/WASHER, SPLIT SPRING 3/4
11	102225	3	BUSHING, STEEL
14	44525	8	NUT, HEX 1/2-13 UNC
15	103243	8	C/SCR, SH 3/4-10 UNC x 1-3/4"
16	3542838	8	STUD, 1/2-13 UNC PQ CHUCK
17	3542839	6	SPACER, PQ CHUCK
18	3547401	2	SPACER, PQ CHUCK (SHORT)
19	3547384	1	MOUNTING PLATE, UPPER
21	44521	6	L/WASHER, SPLIT SPRING 1/2"
22	44512	2	C/SCR, HH 3/8 UNC x 1 LG
23	44520	2	L/WASHER, 3/8 SAE G8
24	14892	1	GUN, GREASE
25	44640	6	C/SCR, HH 1/2-13UNC x 1-3/4
26	44510	1	C/SCR, HH 1/2-13 UNC x 1-1/2
27	44521	1	L/WASHER, SPLIT SPRING 1/2"
28	44748	4	C/SCR, HH 3/4-10 UNC x 2
36 01	100189	1	FILTER ASM, SUCTION (ELEMENT # 100190)

00) MOTOR SEAL KIT # 3541832 INCLUDED IN OPERATING SPARES KIT 5000542

01) INCLUDED IN PQ HEAD OPERATING SPARES KIT # 5000542

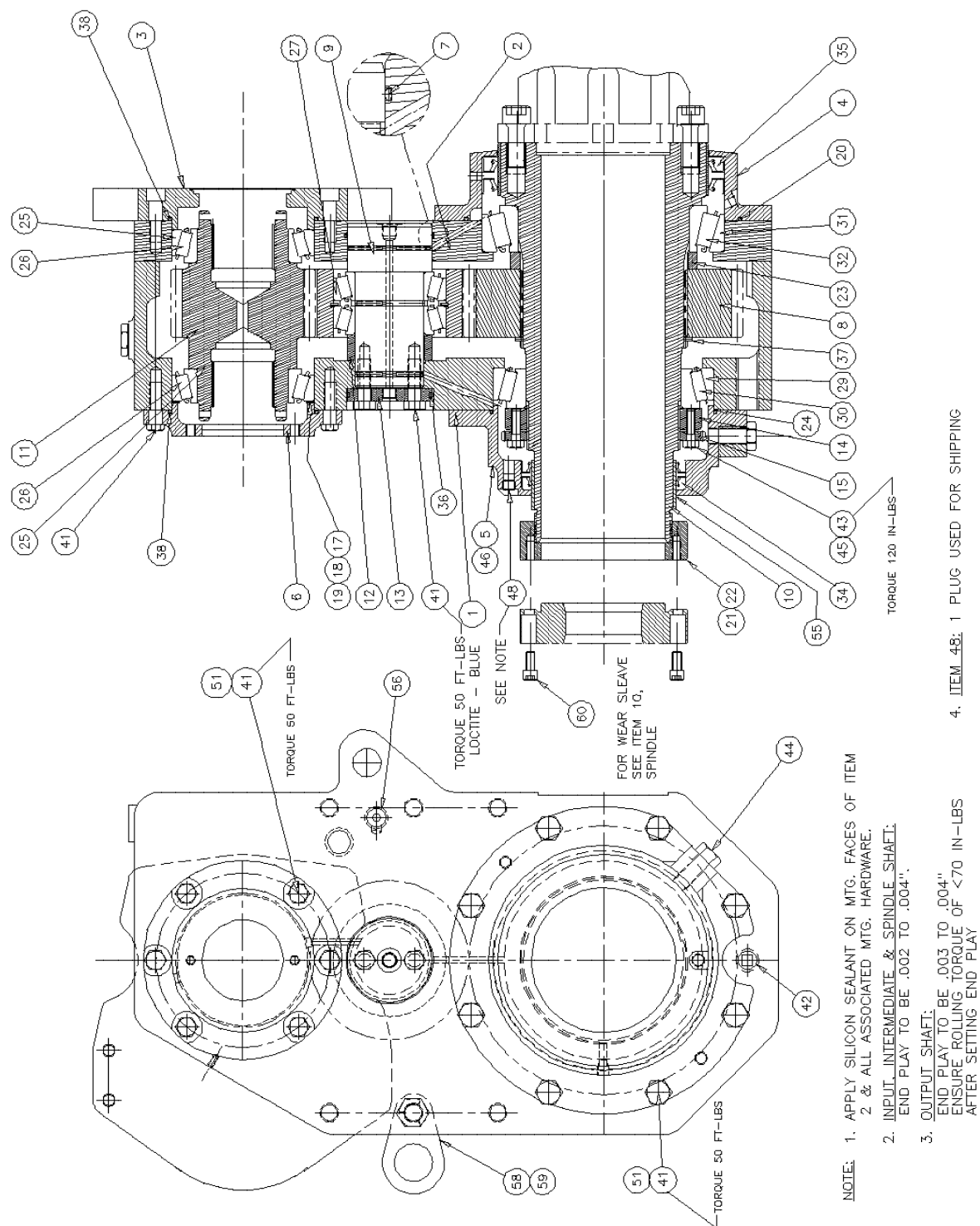


1	3547367	1	HEAD ASSEMBLY, BASIC 90D (Page 60)
2	3542840	1	CHUCK ASM, PQ NITROGEN GAS (Page 66)
3	3547405	1	TRANSMISSION, LF90D SUB ASM. (Page 70)
4 01	3548230	1	PUMP, HEAD COOLING CIRCUIT
5 00	103816	1	MOTOR, HYDRAULIC
8	44523	4	L/WASHER, SPLIT SPRING 3/4
11	102225	3	BUSHING, STEEL
14	44525	8	NUT, HEX 1/2-13 UNC
15	103243	8	C/SCR, SH 3/4-10 UNC x 1-3/4"
16	3542838	8	STUD, 1/2-13 UNC PQ CHUCK
17	3542839	6	SPACER, PQ CHUCK
18	3547401	2	SPACER, PQ CHUCK (SHORT)
19	3547384	1	MOUNTING PLATE, UPPER
21	44521	6	L/WASHER, SPLIT SPRING 1/2"
22	44512	2	C/SCR, HH 3/8 UNC x 1 LG
23	44520	2	L/WASHER, 3/8 SAE G8
24	14892	1	GUN, GREASE
25	44640	6	C/SCR, HH 1/2-13UNC x 1-3/4
26	44510	1	C/SCR, HH 1/2-13 UNC x 1-1/2
27	44521	1	L/WASHER, SPLIT SPRING 1/2"
28	44748	4	C/SCR, HH 3/4-10 UNC x 2
36 01	100189	1	FILTER ASM, SUCTION (ELEMENT # 100190)
00)	MOTOR SEAL KIT # 3541832 INCLUDED IN OPERATING SPARES KIT 5000542		
01)	INCLUDED IN PQ HEAD OPERATING SPARES KIT # 5000542		



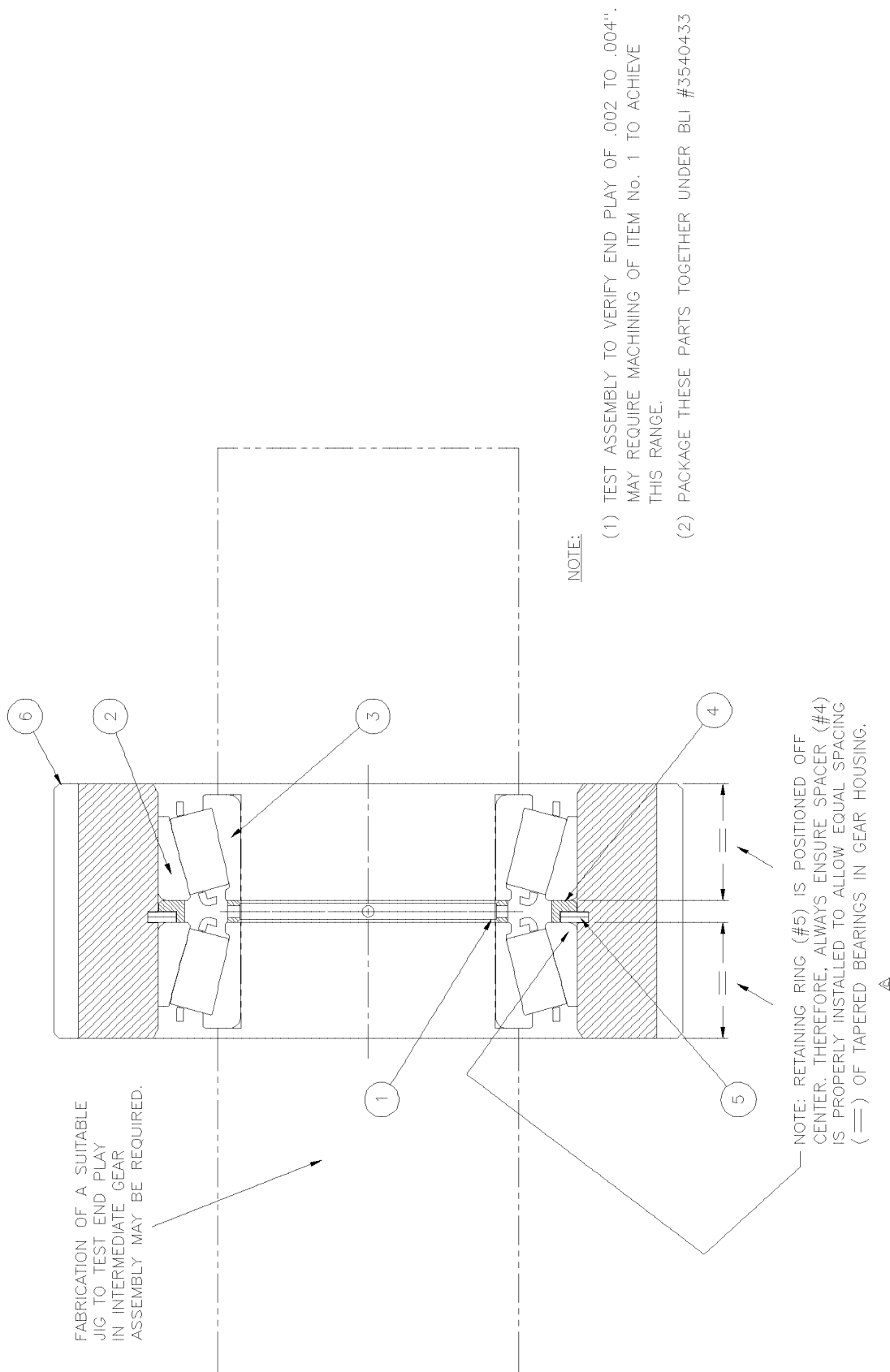
1	306473	1	HOUSING-MAIN
2	3547369	1	COVER, HOUSING
3	3547368	1	CARRIER, TRANSMISSION INPUT
4	306476	1	CAP- BEARING UPPER (OUTPUT)
5	306477	1	CAP- BEARING LOWER (OUTPUT)
6	3547372	1	COVER, PUMP MOUNTING
7 01	3547404	1	O-RING
8	306468	1	GEAR-OUTPUT
9	3547371	1	SHAFT, INTERMEDIATE - IDLER
10 00	3546753	1	SPINDLE, PQ HEAD DRIVE
11	306466	1	PINION AND SHAFT-INPUT
12	306481	1	SPACER-INTERMEDIATE
13	3547370	1	PLATE, INTERMEDIATE LOCK
14	306483	1	RING-INNER LOCK
15	306484	1	RING-OUTER LOCK
17 01	306487	3	SHIM-.005 THICK
18 01	306488	3	SHIM-.007 THICK
19 01	306489	1	SHIM-.020 THICK
20 01	3548734	1	O-RING, 276
21 02	44661	2	S/SCR, SH 1/4-UNC x 3/4 LG
22 02	104464	1	NUT, SPINDLE
23	306493	1	SPACER-OUTPUT
24 01	3548735	1	O-RING, 270
25 02	306585	2	CUP-BEARING, O.D. 5.75
26 02	306587	2	CONE-BEARING, I.D. 3.625"
27	3540433	1	GEAR, INTERMEDIATE ASSEMBLY (PQ HEAD)
28	45676	4	C/SCR, SH 1/2-13 NC x 3/4 Lg.
29 02	306590	1	CUP-BEARING, O.D. 8.875"
30 02	306592	1	CONE-BEARING, I.D. 6.25"
31 02	306593	1	CUP-BEARING, O.D. 9.75
32 02	306594	1	CONE-BEARING, I.D. 6.875"
33	44538	2	C/SCR, HH 3/8-16 NC x 1/2 Lg.
34 01	306599	2	SEAL-OIL, ID 5.75" OD 6.625"
35 01	306600	2	SEAL-OIL, ID 8.5" OD 9.75
36 01	48761	1	O'RING, SHAFT INTERMEDIATE
37 02	306603	1	RING-SNAP, Dia6.75" SHAFT
38 01	3548736	1	O-RING, 257
39	3540648	2	DOWEL-GROOVED Dia1 1/2" x 1.75"LG.
40	46102	19	C/SCR SH 1/2-13 NC x 1-3/4Lg.

- 00) STAINLESS WEAR SLEEVES INCLUDED, FOR INDIVIDUAL SLEEVES SEE 306494 & 3546752
01) INCLUDED IN GEARBOX SEAL KIT #5000405 AND OVERHAUL KIT 5000545
02) INCLUDED IN GEARBOX OVERHAUL KIT # 5000545



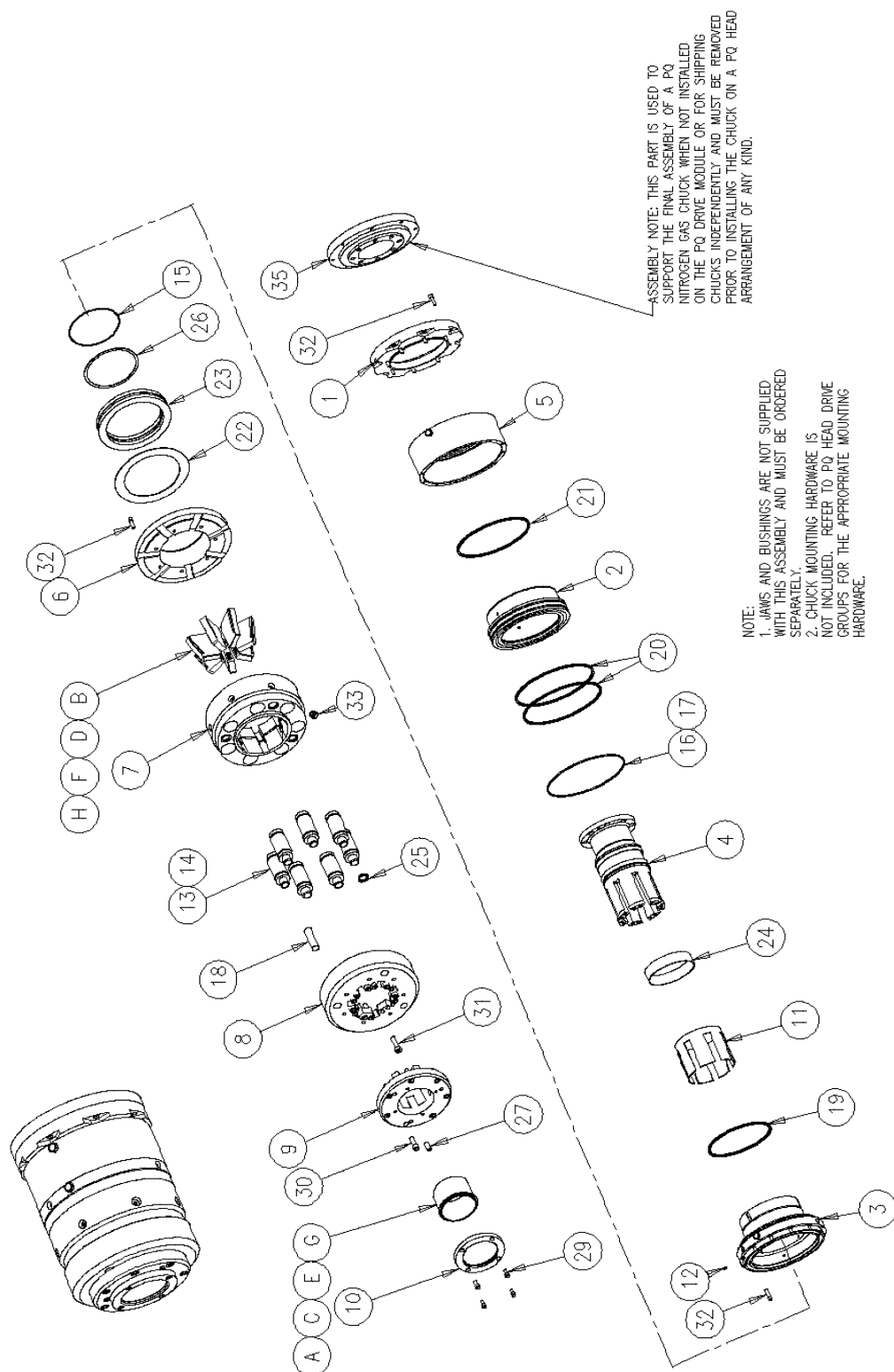
41	44510	16	C/SCR, HH 1/2-13 UNC x 1-1/2
42	3540054	1	PLUG-MAGNETIC PIPE [3/4 NPT]
43	306608	6	C/SCR,HH 3/8-16x1-1/4 Lg (Rwk)
44	39572	1	ADAP HYD PLUG #8 ORB
45 01	44766	A/R	WIRE-LOCK Dia.047
46	16634	1	FITTING-GREASE 1/8 NPTF
47	100976	3	PLUG,PIPE, SOC. HD. 1/8-27 NPTF
48	22079	2	PLUG-SOCKET PIPE, 1/4 N.P.T.
50	22080	1	PLUG-SOCKET PIPE, 3/8" N.P.T.
51	44521	23	L/WASHER, SPLIT SPRING 1/2"
52	17273	1	FITTING, GREASE 1/8 NPT x 90°
53	44551	4	C/SCR, HH 5/16-18 x 3/4 Lg.
54	100327	1	COVER, SERVICE
56	3548360	2	PLUG, FLUSHMOUNT 3/4 SH PIPE
57	44531	6	C/SCR, SH 1/2-13UNC x 1 1/2 LG
58	3541286	1	LUG, LIFTING
59	46098	1	C/SCR, HH 3/4 UNC x 1 1/2 Lg.
60	44570	4	C/SCR, SH 3/8-16UNC x 3/4 LG

01) INCLUDED IN GEARBOX SEAL KIT #5000405 AND OVERHAUL KIT 5000545



1	01	306492	1	SPACER, BEARING (REWORK)
2	01	306588	2	CUP, BEARING O.D. 4.5276
3	01	306589	2	CONE, BEARING I.D. 2.7559
4		306597	1	SPACER, CUP
5	01	3540005	1	RING, RETAINING Dia4.5" HOUSING
6		306469	1	GEAR, INTERMEDIATE

01) INCLUDED IN GEARBOX OVERHAUL KIT # 5000545



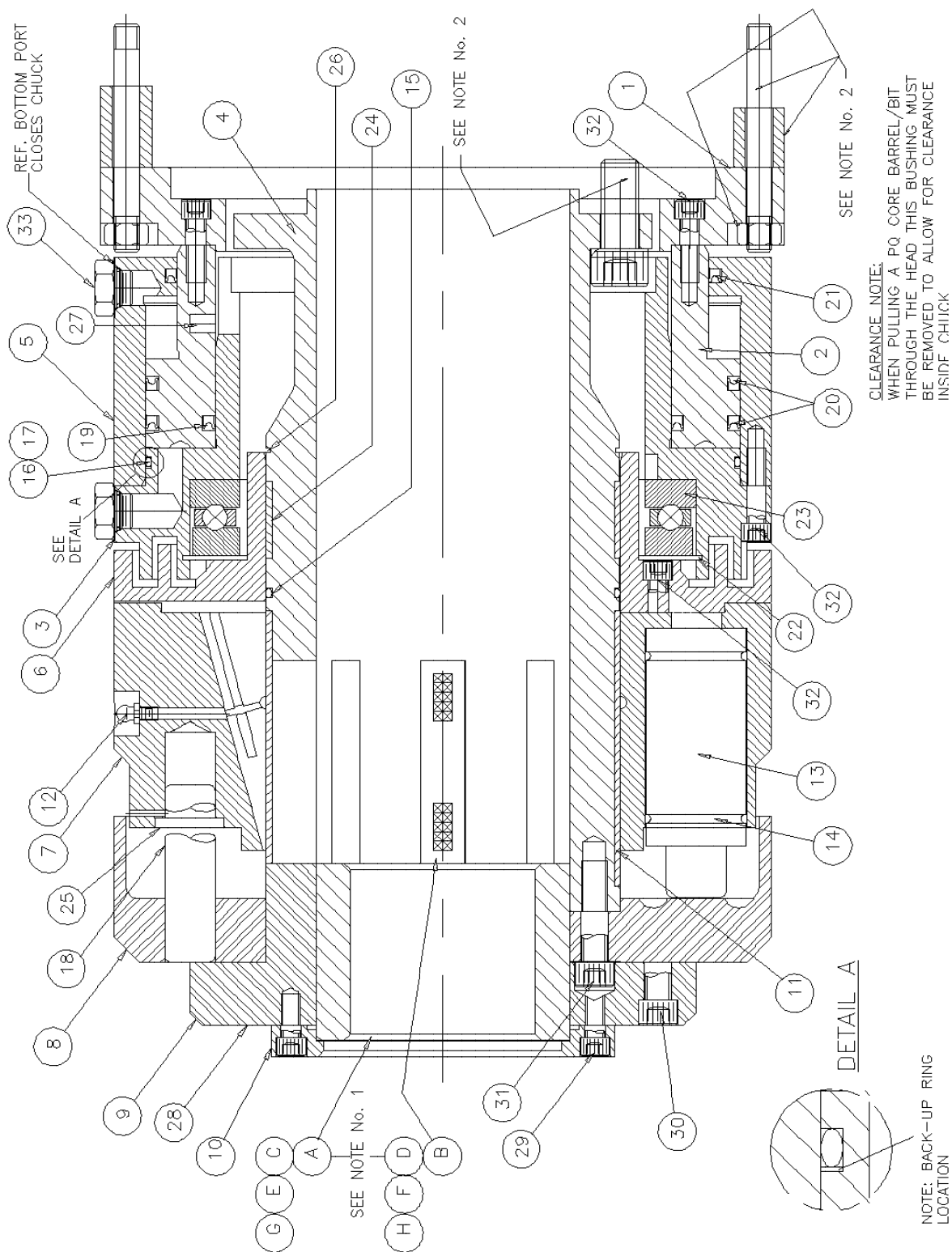
1	3543490	1	ADAPTER, MTG CHUCK NITRO
2	3543479	1	PISTON, PQ CHUCK NITRO
3	3543478	1	INNER CYLINDER, CHUCK NITRO
4	3543477	1	SPINDLE, PQ CHUCK NITRO
5	3543480	1	CYLINDER, OUTER CHUCK NITRO
6	3543481	1	LABRINTH SEAL, CHUCK NITRO
7	3543515	1	BOWL, PQ CHUCK NITRO
8	3543482	1	RETAINER, SPRING PQ CHUCK
9	3543483	1	RETAINER, JAW PQ CHUCK NITRO
10	3543509	1	BUSHING, RETAINER GUIDE
11	3543514	1	SLEEVE, WEAR SPINDLE UPPER
12	3543520	10	NIPPLE, GREASE 1/4-28 STRAIGHT
13 00	3543497	7	GAS SPRING, NITROGEN PQ CHUCK [T2SC Service Inst.]
14 01	3543519	7	O'RING, GAS SPRING PQ CHUCK
15 01	3543503	1	O'RING, PQ CHUCK SPINDLE
16 01	3543505	1	O'RING, PQ CHUCK CYLINDER
17 01	3543506	1	RING, BACK-UP PQ CHUCK CYL
18	3543510	3	PIN, DOWEL 1 DIA x 3 1/2 LG
19 01	3543500	1	CUP SEAL, INNER URETHANE
20 01	3543501	2	CUP SEAL, OUTER URETHANE
21 01	3543502	1	CUP SEAL, PISTON URETHANE
22	3543499	1	RING, RETAINING INTERNAL
25 01	3543508	3	SEAL, OIL GUIDE PIN
26	3543524	1	RING, RETAINING EXTERNAL
27	3547565	3	PIN, 3/8 DIA x 1 LG GROOVED
28	3543521	3	SCREW, SET 1/2-13UNC x 1 1/4
29	44570	4	C/SCR, SH 3/8-16UNC x 3/4 LG
30	44531	7	C/SCR, SH 1/2-13UNC x 1 1/2 LG
31	47226	14	C/SCR, SH 1/2-20UNF x 2 LG
32	46527	27	C/SCR, SH 3/8-16UNC x 1 1/4 LG
34 * 02	3543876	1	GREASE, ULTRA DUTY 14oz TUBE
35 02	3543774	REF	SUPPORT PLT, PQ CHUCK
A 02	3543489	REF	BUSHING, BRQHP (UPPER)
B 02	3544188	REF	JAW SET, BRQHP
C 02	3543301	REF	BUSHING, BW CSG, NRQHP (UPPER)
D 02	3543471	REF	JAW SET, BW CSG, NRQHP ROD
E 02	3543299	REF	BUSHING, NW CSG, HRQHP (UPPER)
F 02	3543472	REF	JAW SET, NW CSG, HRQHP ROD

*) Supplied w/Power Unit

00) GAS SPRING SEAL KIT P/N 3543498 - (7 REQUIRED)

01) SUPPLIED IN CHUCK SEAL KIT # 3543526

02) NOT SUPPLIED WITH THIS ASSEMBLY - MUST BE ORDERED SEPARATELY



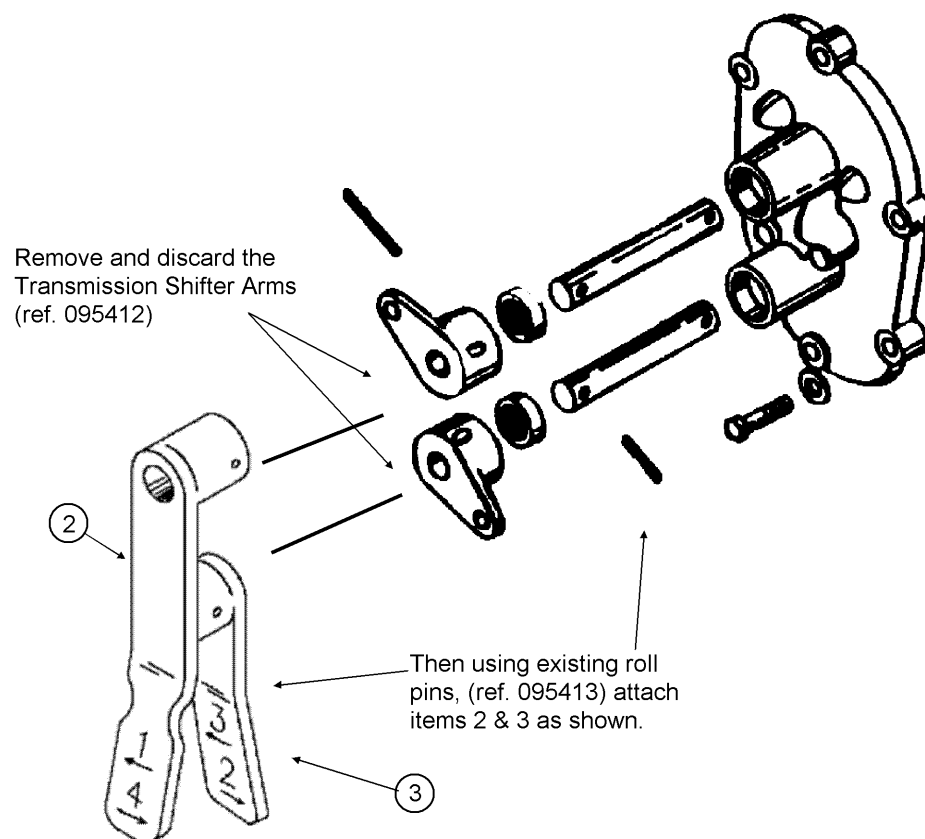
1	3543490	1	ADAPTER, MTG CHUCK NITRO
2	3543479	1	PISTON, PQ CHUCK NITRO
3	3543478	1	INNER CYLINDER, CHUCK NITRO
4	3543477	1	SPINDLE, PQ CHUCK NITRO
5	3543480	1	CYLINDER, OUTER CHUCK NITRO
6	3543481	1	LABRINTH SEAL, CHUCK NITRO
7	3543515	1	BOWL, PQ CHUCK NITRO
8	3543482	1	RETAINER, SPRING PQ CHUCK
9	3543483	1	RETAINER, JAW PQ CHUCK NITRO
10	3543509	1	BUSHING, RETAINER GUIDE
11	3543514	1	SLEEVE, WEAR SPINDLE UPPER
12	3543520	10	NIPPLE, GREASE 1/4-28 STRAIGHT
13 00	3543497	7	GAS SPRING, NITROGEN PQ CHUCK [T2SC Service Inst.]
14 01	3543519	7	O'RING, GAS SPRING PQ CHUCK
15 01	3543503	1	O'RING, PQ CHUCK SPINDLE
16 01	3543505	1	O'RING, PQ CHUCK CYLINDER
17 01	3543506	1	RING, BACK-UP PQ CHUCK CYL
18	3543510	3	PIN, DOWEL 1 DIA x 3 1/2 LG
19 01	3543500	1	CUP SEAL, INNER URETHANE
20 01	3543501	2	CUP SEAL, OUTER URETHANE
21 01	3543502	1	CUP SEAL, PISTON URETHANE
22	3543499	1	RING, RETAINING INTERNAL
25 01	3543508	3	SEAL, OIL GUIDE PIN
26	3543524	1	RING, RETAINING EXTERNAL
27	3547565	3	PIN, 3/8 DIA x 1 LG GROOVED
28	3543521	3	SCREW, SET 1/2-13UNC x 1 1/4
29	44570	4	C/SCR, SH 3/8-16UNC x 3/4 LG
30	44531	7	C/SCR, SH 1/2-13UNC x 1 1/2 LG
31	47226	14	C/SCR, SH 1/2-20UNF x 2 LG
32	46527	27	C/SCR, SH 3/8-16UNC x 1 1/4 LG
34 * 02	3543876	1	GREASE, ULTRA DUTY 14oz TUBE
35 02	3543774	REF	SUPPORT PLT, PQ CHUCK
A 02	3543489	REF	BUSHING, BRQHP (UPPER)
B 02	3544188	REF	JAW SET, BRQHP
C 02	3543301	REF	BUSHING, BW CSG, NRQHP (UPPER)
D 02	3543471	REF	JAW SET, BW CSG, NRQHP ROD
E 02	3543299	REF	BUSHING, NW CSG, HRQHP (UPPER)
F 02	3543472	REF	JAW SET, NW CSG, HRQHP ROD

*) Supplied w/Power Unit

00) GAS SPRING SEAL KIT P/N 3543498 - (7 REQUIRED)

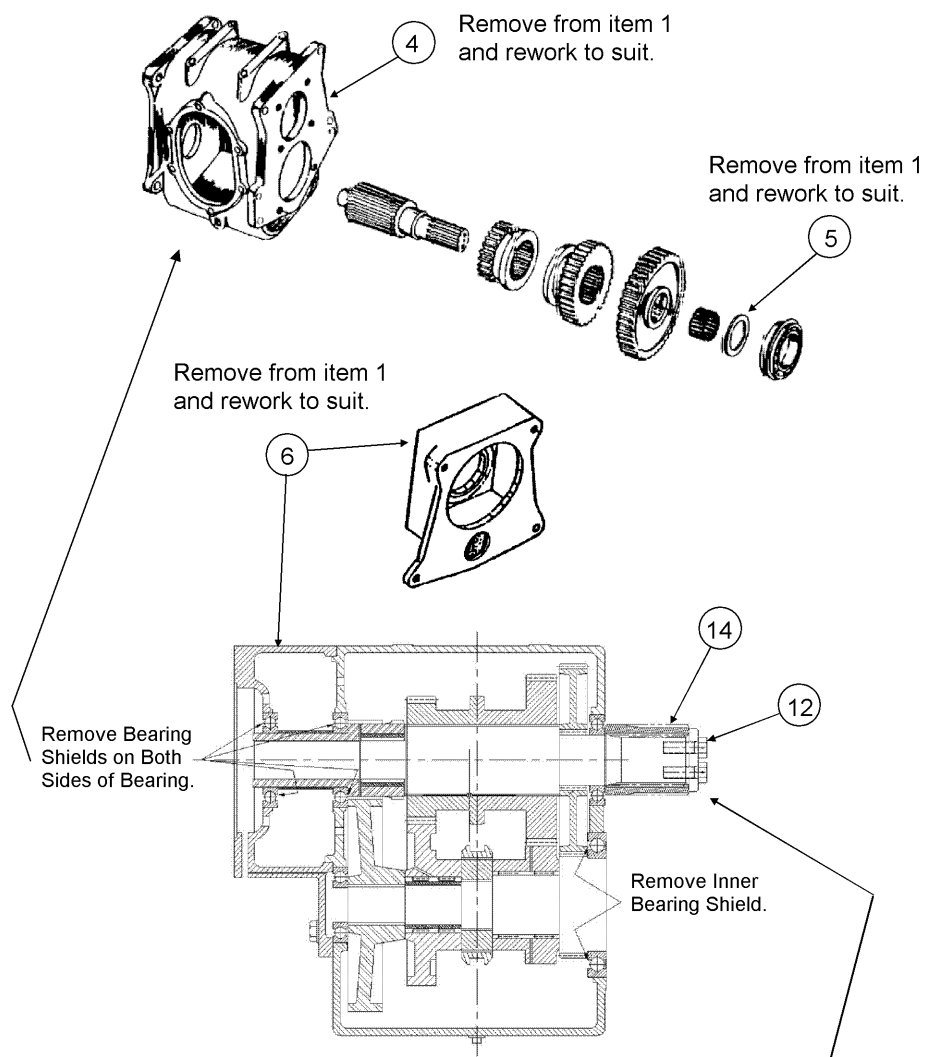
01) SUPPLIED IN CHUCK SEAL KIT # 3543526

02) NOT SUPPLIED WITH THIS ASSEMBLY - MUST BE ORDERED SEPARATELY



1	00	103815	1	TRANSMISSION, 4-SPEED [FUNK] (Page 76)
2		3548180	1	SHIFTER HANDLE FUNK TRANS 1 & 4
3		3548181	1	SHIFTER HANDLE FUNK TRANS 2 & 3
4	00	3547580	1	HOUSING REWORK
5		3541202	1	WASHER, THRUST (REWORK)
6	00	3547385	1	HOUSING, MOTOR ADAPT REWORK
7		3542442	1	FORK, EXTENDED SLIDING
8		3546620	2	DIE SPRING, EXTRA-HEAVY (Green)
9		3546622	1	DISC, TRANSMISSION INTERLOCK
10		3547471	1	PLATE, ACCESS COVER
11		3547480	2	C/SCR, HH 1/4 UNC 1/2 Lg. REWORK
12		44766	1	WIRE-LOCK Dia.047
13		28051	1	PLUG, PIPE 3/4 DIA.
14		3548809	1	ADAPTER, SPLINED

00) This is for reference only. If a complete new transmission is required order 3547405.

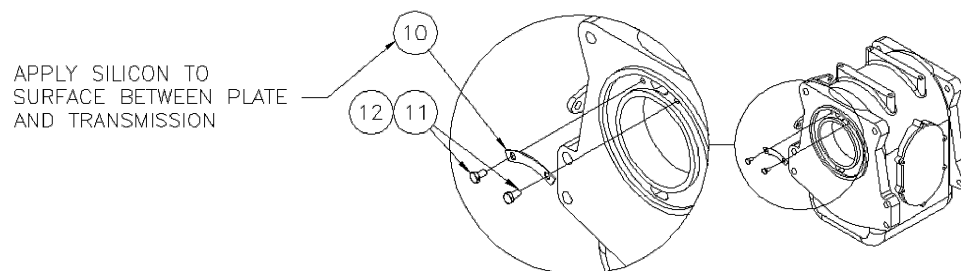
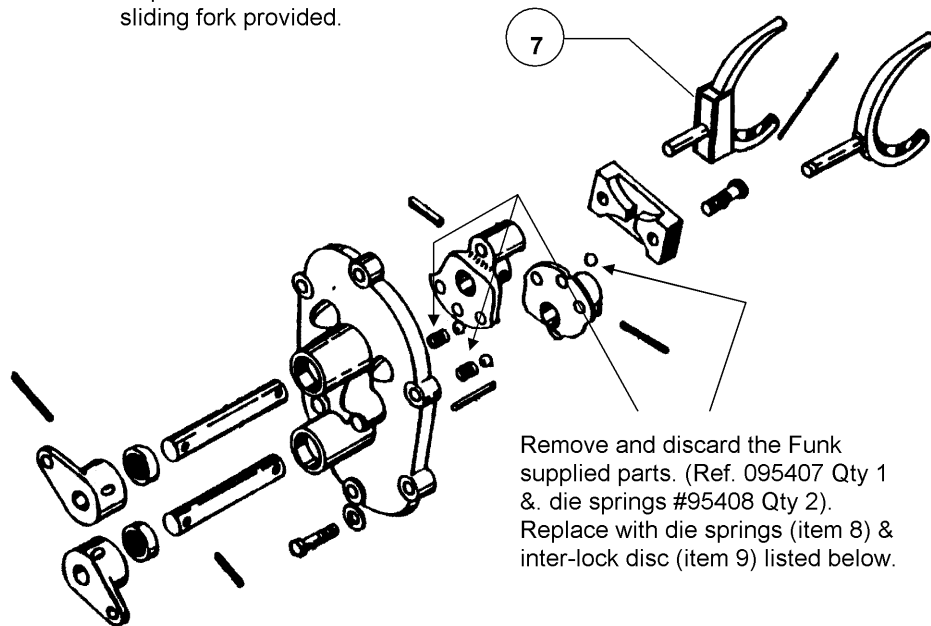


- Slide the splined adaptor on the spline of the output shaft with the machined O.D. of the splined adaptor against the transmission output shaft bearing.
- Install the shim pack and retaining washer with the two 7/16" UNF X 1-1/2" bolts to the end of the transmission output shaft. Torque these two bolts to 40 lbf ft (54.23 Nm).
- Using feeler gauges check the distance between the end of the splined adaptor and the retaining washer. There must be .010" to .015" (.25 to .38 mm) end play. Lock-wire these two bolts together.

1	00	103815	1	TRANSMISSION, 4-SPEED [FUNK] (Page 76)
2		3548180	1	SHIFTER HANDLE FUNK TRANS 1 & 4
3		3548181	1	SHIFTER HANDLE FUNK TRANS 2 & 3
4	00	3547580	1	HOUSING REWORK
5		3541202	1	WASHER, THRUST (REWORK)
6	00	3547385	1	HOUSING, MOTOR ADAPT REWORK
7		3542442	1	FORK, EXTENDED SLIDING
8		3546620	2	DIE SPRING, EXTRA-HEAVY (Green)
9		3546622	1	DISC, TRANSMISSION INTERLOCK
10		3547471	1	PLATE, ACCESS COVER
11		3547480	2	C/SCR, HH 1/4 UNC 1/2 Lg. REWORK
12		44766	1	WIRE-LOCK Dia.047
13		28051	1	PLUG, PIPE 3/4 DIA.
14		3548809	1	ADAPTER, SPLINED

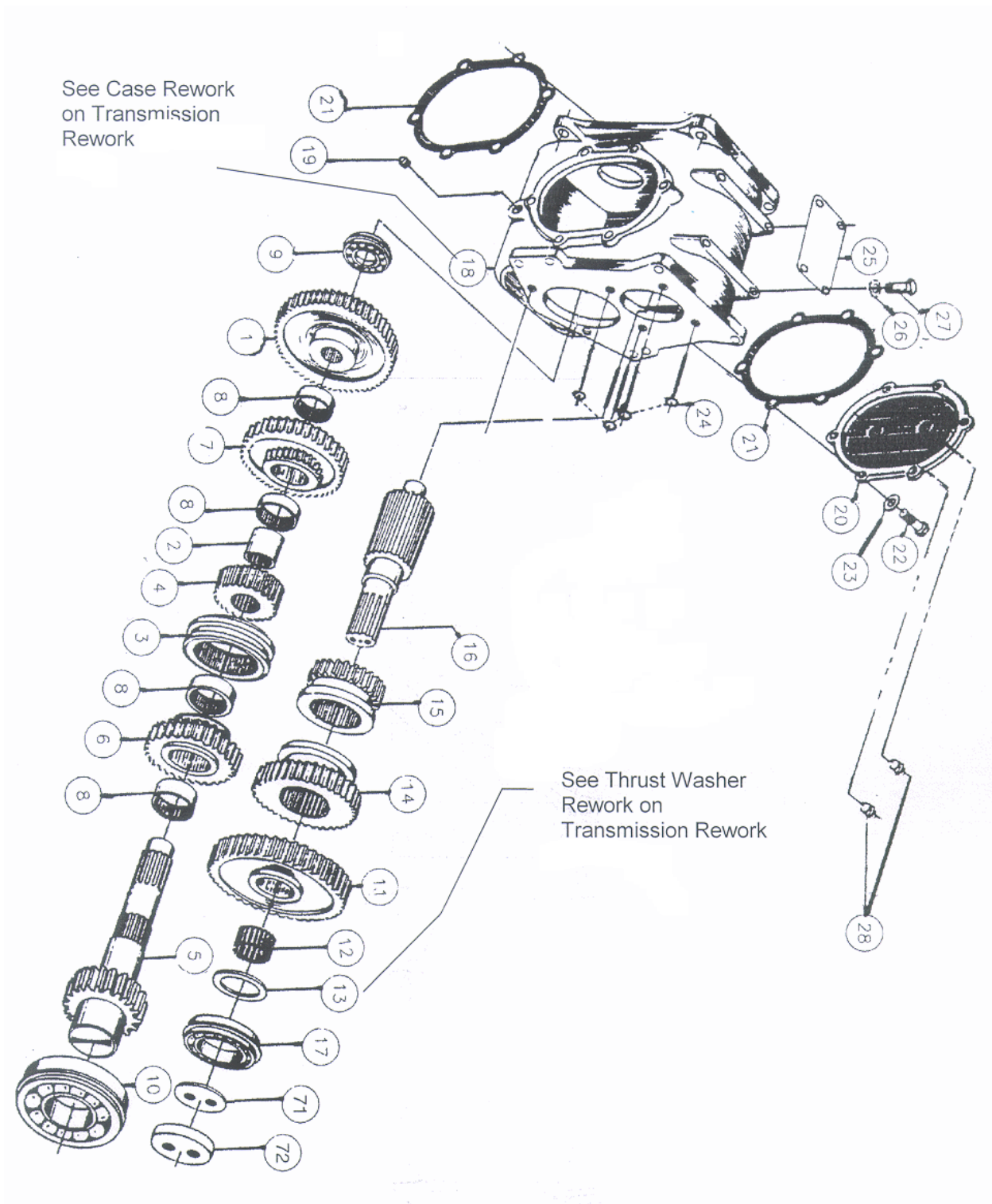
00) This is for reference only. If a complete new transmission is required order 3547405.

Remove and discard the (funk supplied)
small shifter fork (Ref. 095404).
Replace small fork with the extended
sliding fork provided.



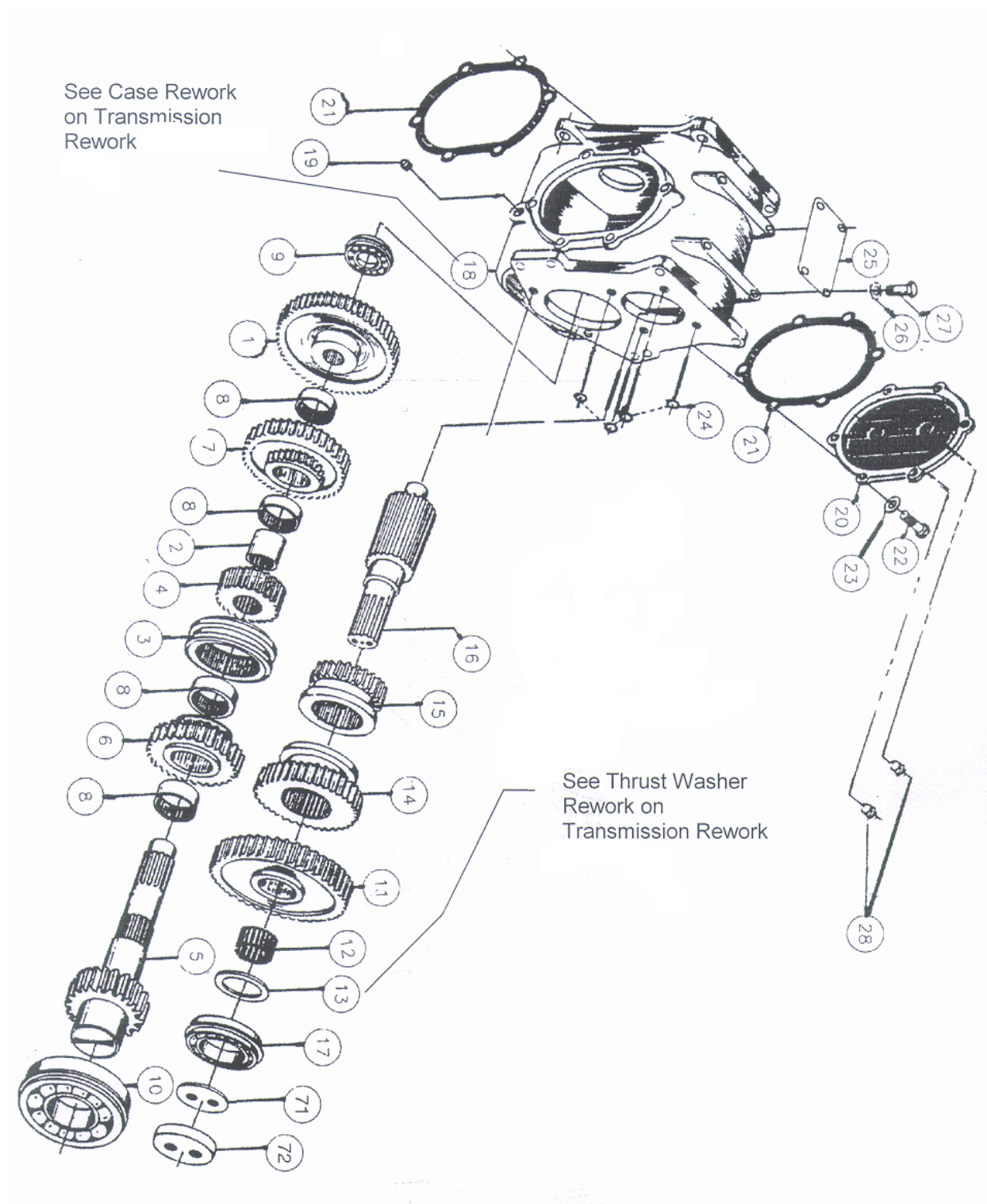
1	00	103815	1	TRANSMISSION, 4-SPEED [FUNK] (Page 76)
2		3548180	1	SHIFTER HANDLE FUNK TRANS 1 & 4
3		3548181	1	SHIFTER HANDLE FUNK TRANS 2 & 3
4	00	3547580	1	HOUSING REWORK
5		3541202	1	WASHER, THRUST (REWORK)
6	00	3547385	1	HOUSING, MOTOR ADAPT REWORK
7		3542442	1	FORK, EXTENDED SLIDING
8		3546620	2	DIE SPRING, EXTRA-HEAVY (Green)
9		3546622	1	DISC, TRANSMISSION INTERLOCK
10		3547471	1	PLATE, ACCESS COVER
11		3547480	2	C/SCR, HH 1/4 UNC 1/2 Lg. REWORK
12		44766	1	WIRE-LOCK Dia.047
13		28051	1	PLUG, PIPE 3/4 DIA.
14		3548809	1	ADAPTER, SPLINED

00) This is for reference only. If a complete new transmission is required order 3547405.



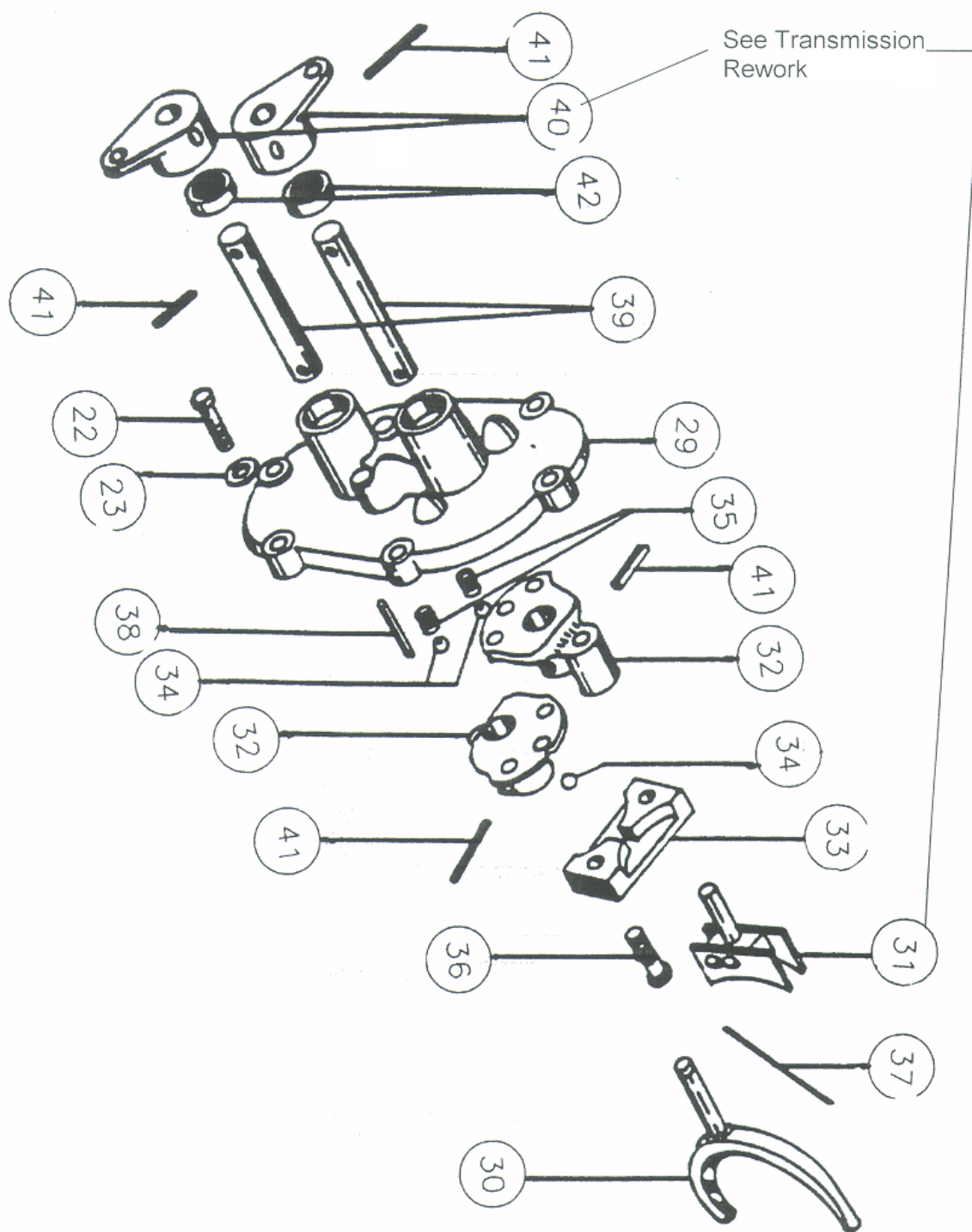
1	95356	1	GEAR, COUNTERSHAFT
2 00	95357	1	BEARING, SLEEVE
3	95358	1	COLLAR, SHIFTING
4	95359	1	GEAR
5	95360	1	COUNTERSHAFT
6	95361	1	GEAR, 2nd COUNTERSHAFT
7	95362	1	GEAR, 3RD COUNTERSHAFT
8 00	95363	4	BEARING, ROLLER
9 00	3549020	1	BEARING
10 00	95365	1	BEARING
11	95366	1	GEAR, MAINSHAFT LOW
12 00	95367	34	ROLLER SOLD SEPARATELY
13 00	3541202	1	WASHER, THRUST (REWORK)
14	95369	1	GEAR, MAINSHAFT 2ND
15	95370	1	GEAR, MAINSHAFT 3RD
16	95371	1	SHAFT, MAIN
17 00	95372	1	BEARING, BALL
18	5002674	1	HOUSING, TRANSMISSION REWORKED
19	3540641	1	PLUG, MAGNETIC
20	3540642	1	COVER, SIDE
21 00	95377	2	GASKET, SIDE COVER
22	44512	12	C/SCR, HH 3/8 UNC x 1 LG
23	95398	12	WASHER, SEALING 3/8"
24 00	95378	4	O-RING, SEAL
28	3540643	2	PLUG, PIPE
29	95402	1	CAP, SIDE SHIFT
30	95403	1	FORK, 2nd & 3rd SHIFTER
31	3542442	1	FORK, EXTENDED SLIDING
32	95405	2	SECTOR, SHIFTER
33	95406	1	BLOCK, INHIBITOR
34 00	3546622	3	DISC, TRANSMISSION INTERLOCK
35 00	3546620	2	DIE SPRING, EXTRA-HEAVY (Green)
36	95409	2	C/SCR, HH 5/8 UNF X 1" DRILLED HEAD
38 00	95410	4	PIN, ROLL 5/16 DIA X 1.5 LG
39	95411	2	SHAFT, SHIFT SELECTOR
41 00	95413	2	PIN, ROLL 5/16 DIA X 1.5
42 00	95414	2	SEAL, RING
59	3549314	1	ADAPTER, MOTOR REWORK
60 00	3540646	1	SEAL, RING
61	95416	2	C/SCR, HH 9/16 UNC X 2.25
62	95417	2	NUT, HEX 9/16 UNC

00) SUPPLIED IN BASIC TRANSMISSION OVERHAUL KIT # 3541060



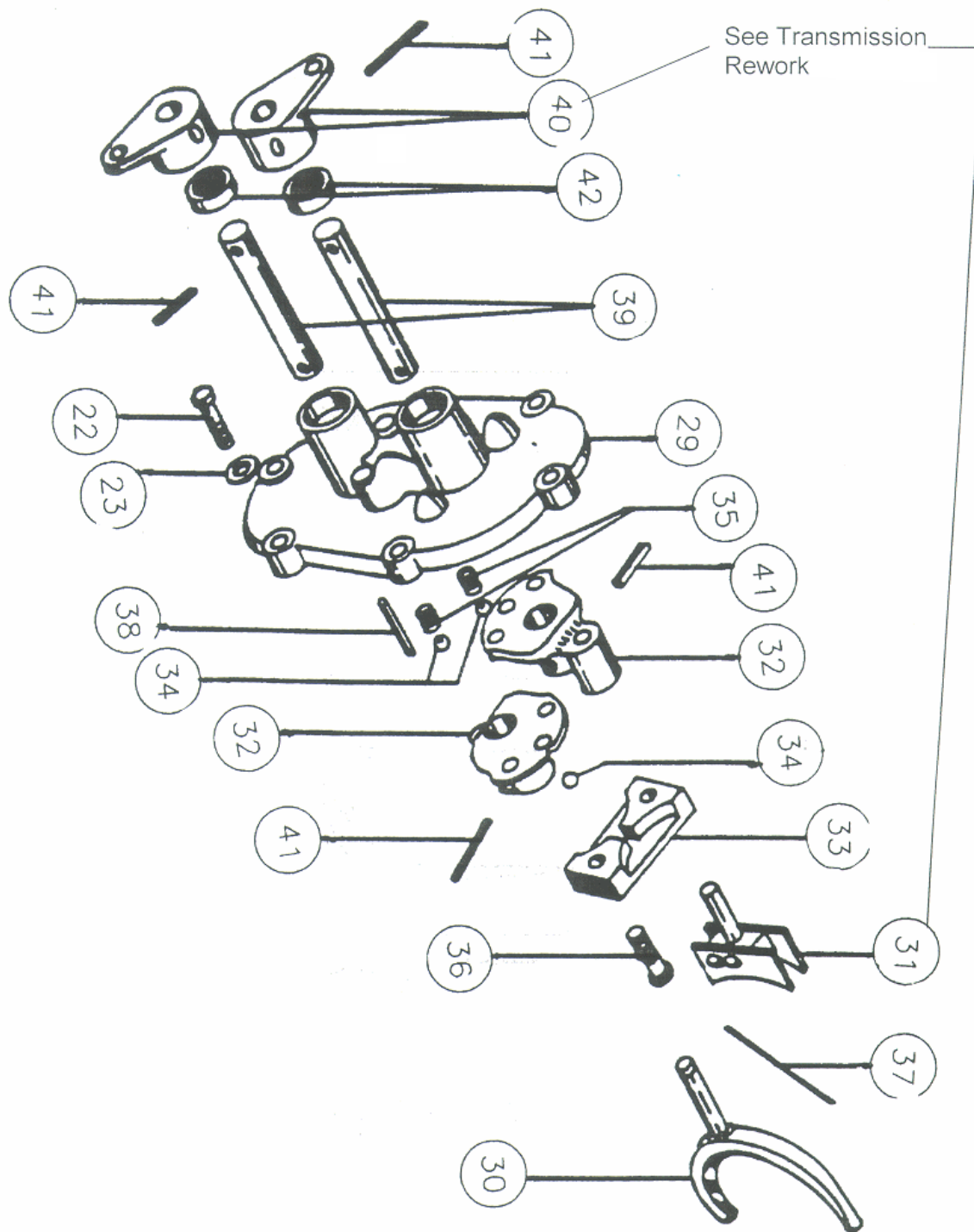
63	00	79792	1	BEARING, TRANSMISSION PILOT
64		3540645	1	GEAR, INPUT SHAFT
65	00	95418	1	BEARING, BALL
66	00	95419	1	SPACER, BEARING
67	00	95420	1	BEARING
68	00	95421	1	RING, SNAP
69		95422	2	C/SCR, HH 9/16 UNC X 1.75
70		95423	4	L/WASHER, 9/16 DIA
71	00	103281	6	SHIM, CPN FLG
72		95389	1	RETAINER
100	00	44766	6	WIRE-LOCK Dia.047

00) SUPPLIED IN BASIC TRANSMISSION OVERHAUL KIT # 3541060



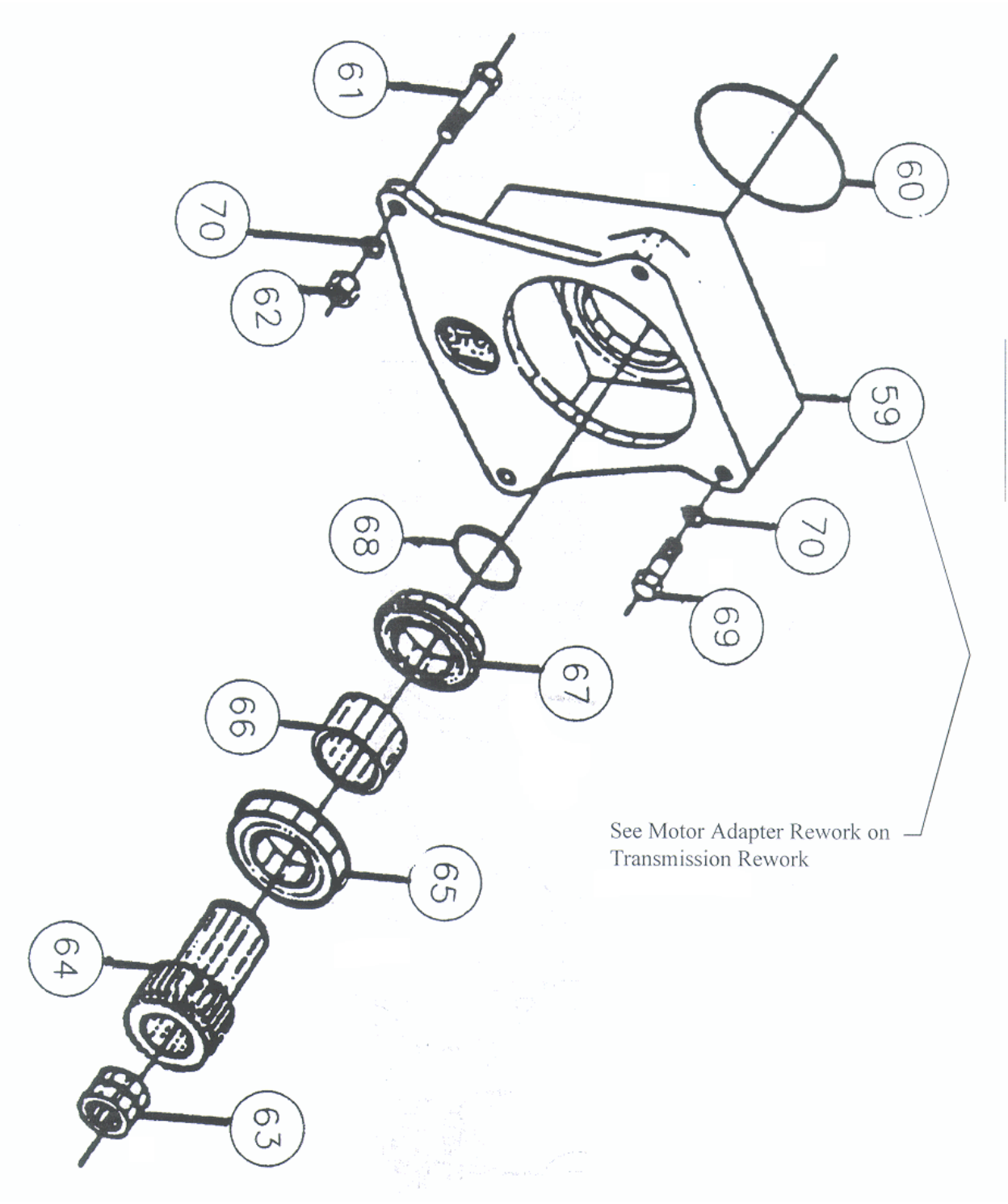
1	95356	1	GEAR, COUNTERSHAFT
2 00	95357	1	BEARING, SLEEVE
3	95358	1	COLLAR, SHIFTING
4	95359	1	GEAR
5	95360	1	COUNTERSHAFT
6	95361	1	GEAR, 2nd COUNTERSHAFT
7	95362	1	GEAR, 3RD COUNTERSHAFT
8 00	95363	4	BEARING, ROLLER
9 00	3549020	1	BEARING
10 00	95365	1	BEARING
11	95366	1	GEAR, MAINSHAFT LOW
12 00	95367	34	ROLLER SOLD SEPARATELY
13 00	3541202	1	WASHER, THRUST (REWORK)
14	95369	1	GEAR, MAINSHAFT 2ND
15	95370	1	GEAR, MAINSHAFT 3RD
16	95371	1	SHAFT, MAIN
17 00	95372	1	BEARING, BALL
18	5002674	1	HOUSING, TRANSMISSION REWORKED
19	3540641	1	PLUG, MAGNETIC
20	3540642	1	COVER, SIDE
21 00	95377	2	GASKET, SIDE COVER
22	44512	12	C/SCR, HH 3/8 UNC x 1 LG
23	95398	12	WASHER, SEALING 3/8"
24 00	95378	4	O-RING, SEAL
28	3540643	2	PLUG, PIPE
29	95402	1	CAP, SIDE SHIFT
30	95403	1	FORK, 2nd & 3rd SHIFTER
31	3542442	1	FORK, EXTENDED SLIDING
32	95405	2	SECTOR, SHIFTER
33	95406	1	BLOCK, INHIBITOR
34 00	3546622	3	DISC, TRANSMISSION INTERLOCK
35 00	3546620	2	DIE SPRING, EXTRA-HEAVY (Green)
36	95409	2	C/SCR, HH 5/8 UNF X 1" DRILLED HEAD
38 00	95410	4	PIN, ROLL 5/16 DIA X 1.5 LG
39	95411	2	SHAFT, SHIFT SELECTOR
41 00	95413	2	PIN, ROLL 5/16 DIA X 1.5
42 00	95414	2	SEAL, RING
59	3549314	1	ADAPTER, MOTOR REWORK
60 00	3540646	1	SEAL, RING
61	95416	2	C/SCR, HH 9/16 UNC X 2.25
62	95417	2	NUT, HEX 9/16 UNC

00) SUPPLIED IN BASIC TRANSMISSION OVERHAUL KIT # 3541060



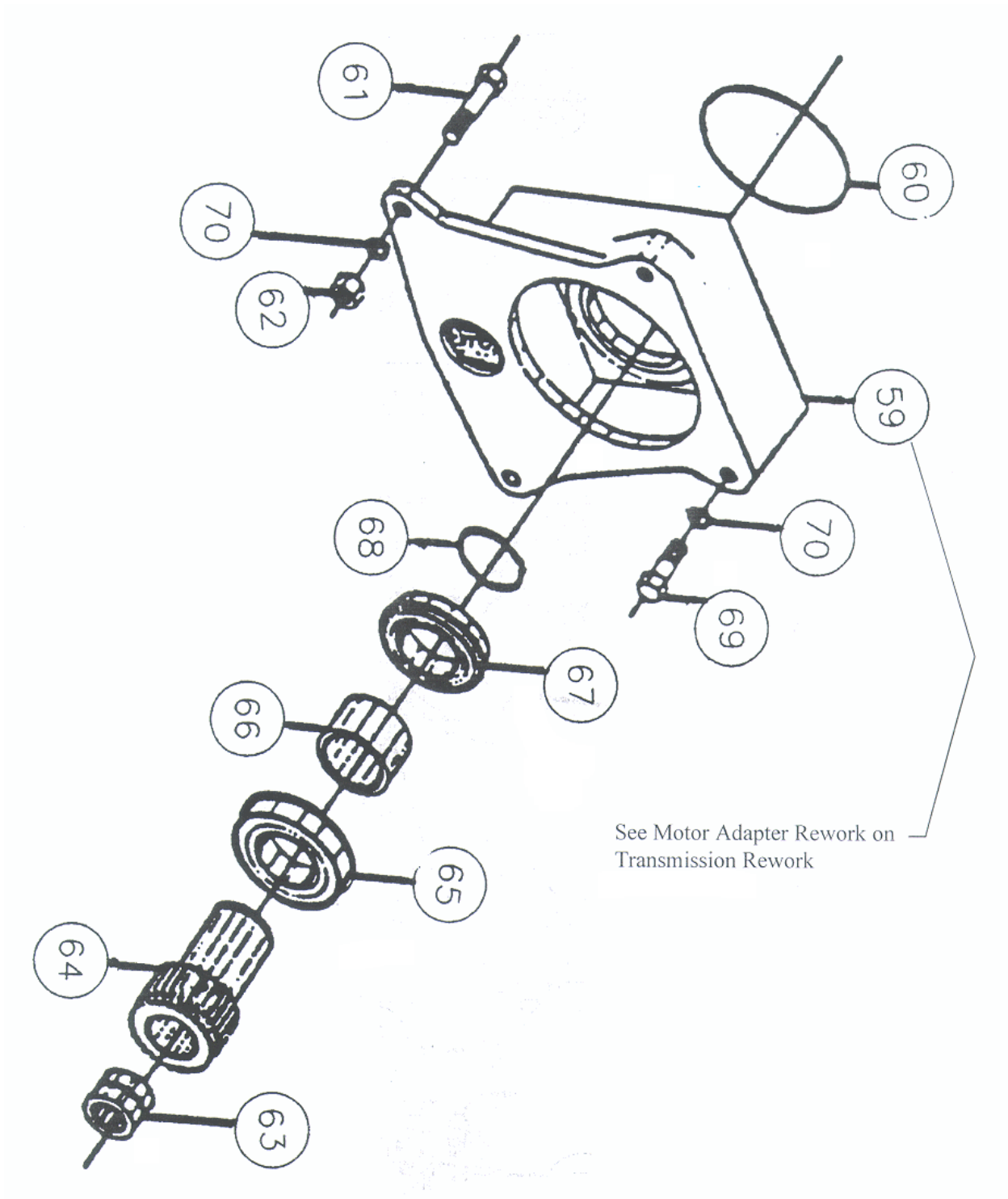
63	00	79792	1	BEARING, TRANSMISSION PILOT
64		3540645	1	GEAR, INPUT SHAFT
65	00	95418	1	BEARING, BALL
66	00	95419	1	SPACER, BEARING
67	00	95420	1	BEARING
68	00	95421	1	RING, SNAP
69		95422	2	C/SCR, HH 9/16 UNC X 1.75
70		95423	4	L/WASHER, 9/16 DIA
71	00	103281	6	SHIM, CPN FLG
72		95389	1	RETAINER
100	00	44766	6	WIRE-LOCK Dia.047

00) SUPPLIED IN BASIC TRANSMISSION OVERHAUL KIT # 3541060



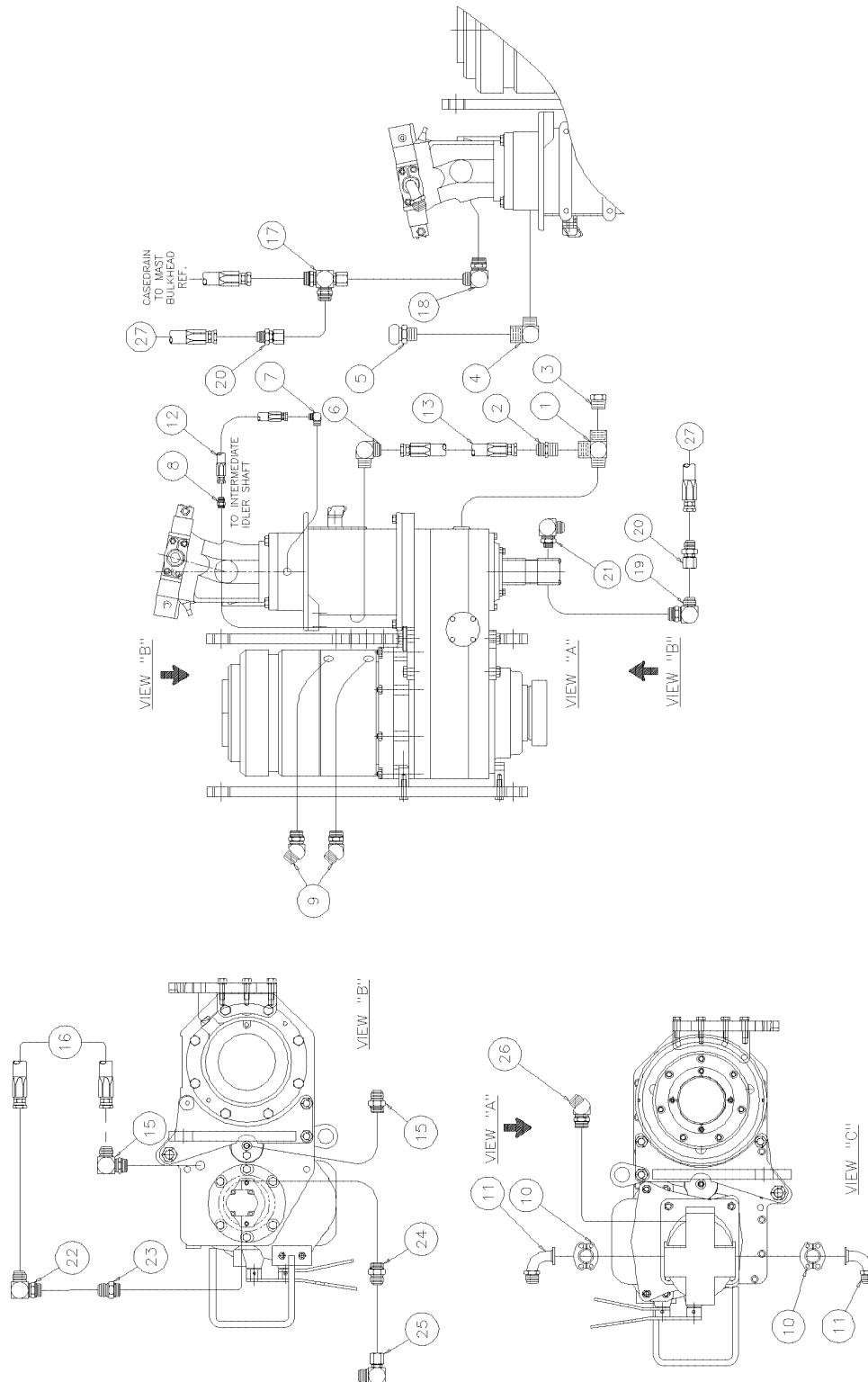
1	95356	1	GEAR, COUNTERSHAFT
2 00	95357	1	BEARING, SLEEVE
3	95358	1	COLLAR, SHIFTING
4	95359	1	GEAR
5	95360	1	COUNTERSHAFT
6	95361	1	GEAR, 2nd COUNTERSHAFT
7	95362	1	GEAR, 3RD COUNTERSHAFT
8 00	95363	4	BEARING, ROLLER
9 00	3549020	1	BEARING
10 00	95365	1	BEARING
11	95366	1	GEAR, MAINSHAFT LOW
12 00	95367	34	ROLLER SOLD SEPARATELY
13 00	3541202	1	WASHER, THRUST (REWORK)
14	95369	1	GEAR, MAINSHAFT 2ND
15	95370	1	GEAR, MAINSHAFT 3RD
16	95371	1	SHAFT, MAIN
17 00	95372	1	BEARING, BALL
18	5002674	1	HOUSING, TRANSMISSION REWORKED
19	3540641	1	PLUG, MAGNETIC
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21 00	95377	2	GASKET, SIDE COVER
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23	95398	12	WASHER, SEALING 3/8"
24 00	95378	4	O-RING, SEAL
28	3540643	2	PLUG, PIPE
29	95402	1	CAP, SIDE SHIFT
30	95403	1	FORK, 2nd & 3rd SHIFTER
31	3542442	1	FORK, EXTENDED SLIDING
32	95405	2	SECTOR, SHIFTER
33	95406	1	BLOCK, INHIBITOR
34 00	3546622	3	DISC, TRANSMISSION INTERLOCK
35 00	3546620	2	DIE SPRING, EXTRA-HEAVY (Green)
36	95409	2	C/SCR, HH 5/8 UNF X 1" DRILLED HEAD
38 00	95410	4	PIN, ROLL 5/16 DIA X 1.5 LG
39	95411	2	SHAFT, SHIFT SELECTOR
41 00	95413	2	PIN, ROLL 5/16 DIA X 1.5
42 00	95414	2	SEAL, RING
59	3549314	1	ADAPTER, MOTOR REWORK
60 00	3540646	1	SEAL, RING
61	95416	2	C/SCR, HH 9/16 UNC X 2.25
62	95417	2	NUT, HEX 9/16 UNC

00) SUPPLIED IN BASIC TRANSMISSION OVERHAUL KIT # 3541060

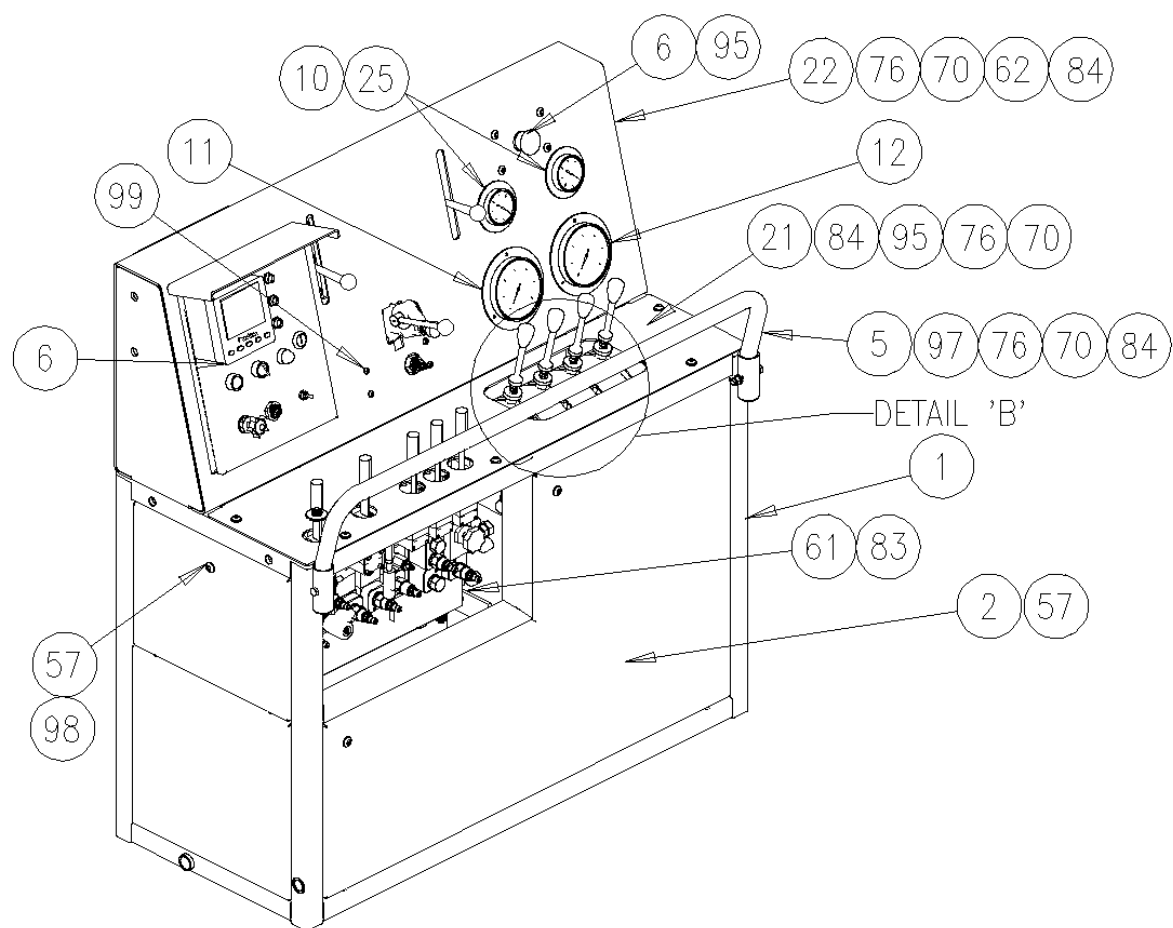


63	00	79792	1	BEARING, TRANSMISSION PILOT
64		3540645	1	GEAR, INPUT SHAFT
65	00	95418	1	BEARING, BALL
66	00	95419	1	SPACER, BEARING
67	00	95420	1	BEARING
68	00	95421	1	RING, SNAP
69		95422	2	C/SCR, HH 9/16 UNC X 1.75
70		95423	4	L/WASHER, 9/16 DIA
71	00	103281	6	SHIM, CPN FLG
72		95389	1	RETAINER
100	00	44766	6	WIRE-LOCK Dia.047

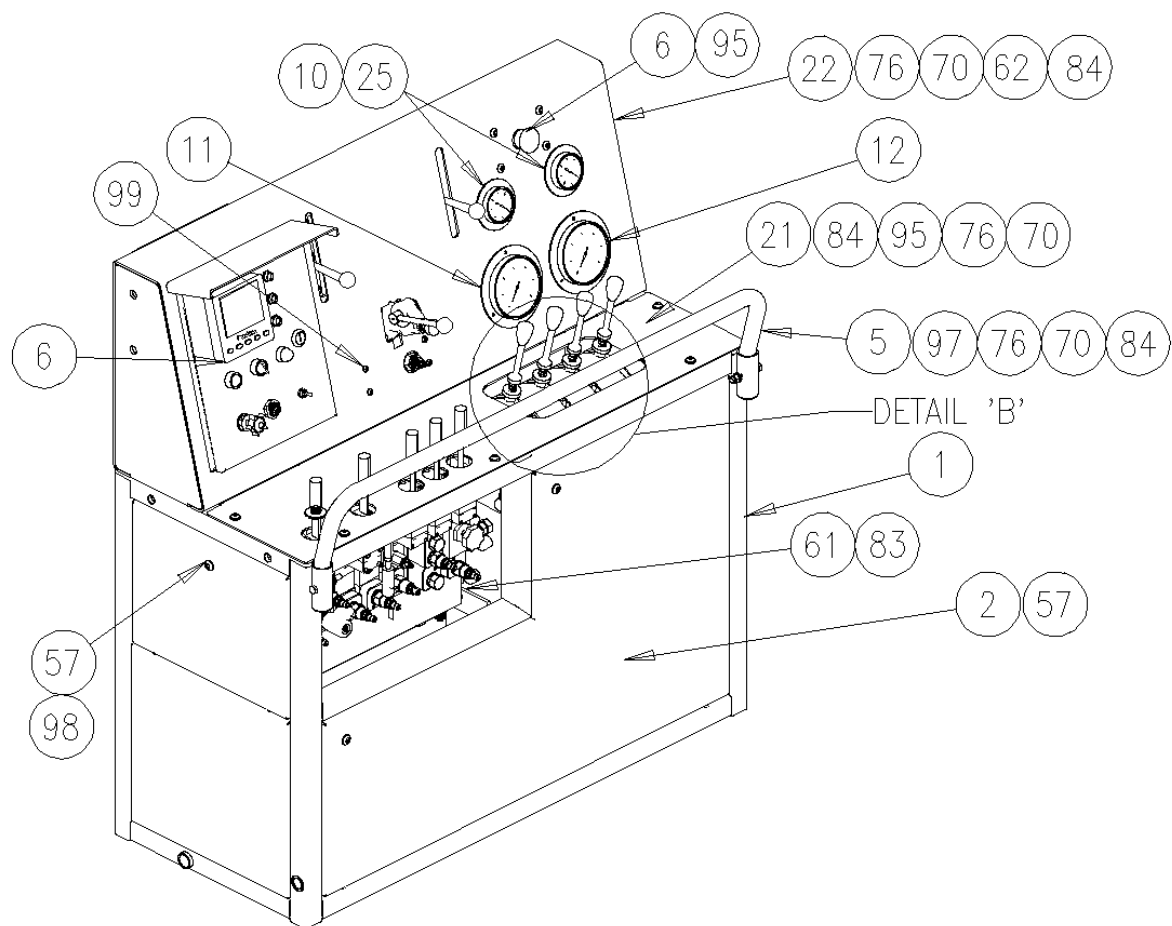
00) SUPPLIED IN BASIC TRANSMISSION OVERHAUL KIT # 3541060



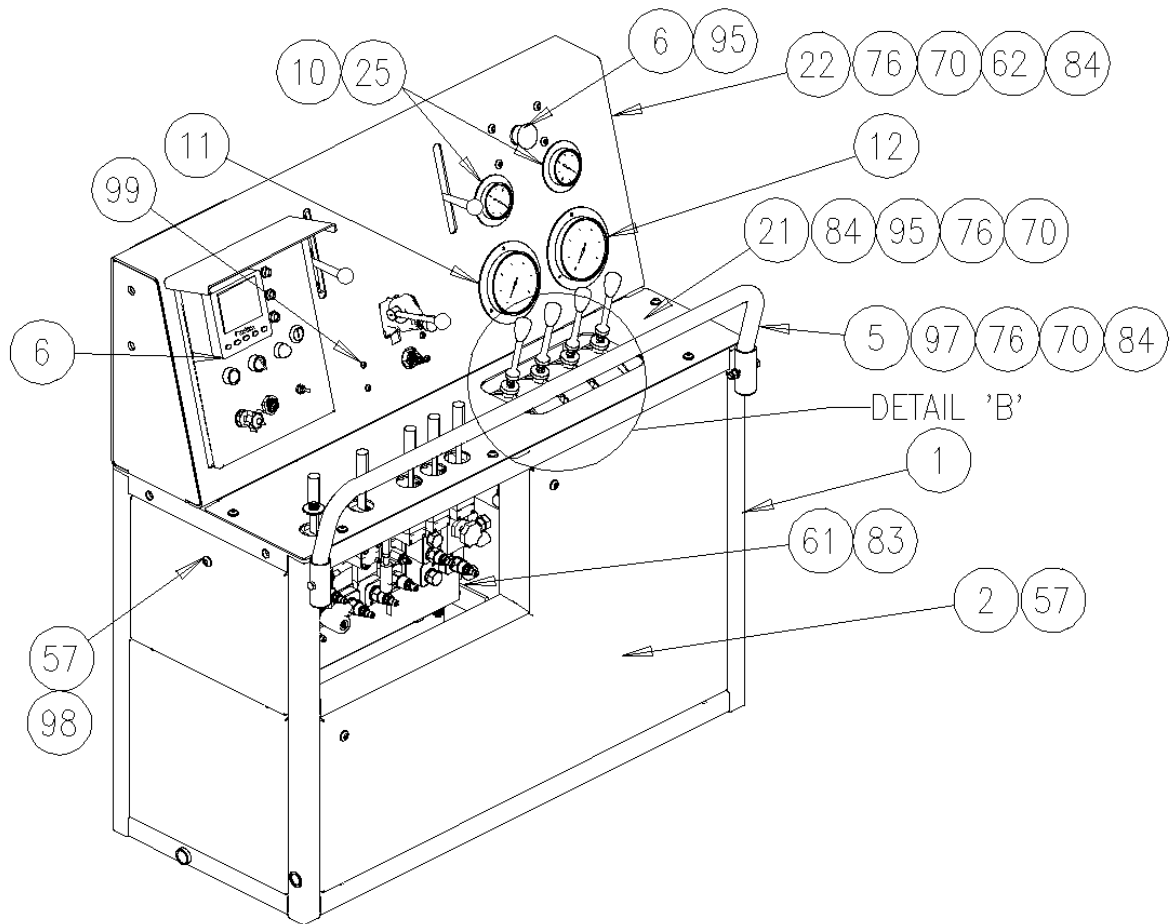
1	31170	1	ADAP, HYD 12 NPT x 12 NPT(F) x 12 NPT (F)
2	19107	1	ADAPT, HYD 3/4 NPT x #12 JIC
3	3547398	1	SIGHT GLASS
4	27105	1	ADAP, HYD 1/8 NPT x 1/8 NPT x 90 Deg
5	102803	1	BREATHER, 1/8 NPT
6	16848	1	ADAPT, HYD #12 JIC x 3/4 NPT
7	19141	1	ADAP HYD #4 JIC x 1/8 NPT
8	35897	1	ADAP, #4 ORB x #4 JIC
9	29000	2	ADAPT, HYD #8 JIC x #8 ORB x 45Deg
10	101530	2	FLANGE KIT, HYD. SPLIT 1" (CODE 62)
11	101531	2	ADAP HYD 90° #16 JIC x 1" S/F
12	39017	1	HOSE ASM, 1/4" ID x 22" LG
13	81267	1	#12 HOSE STR JIC(F) x JIC(F) x 26.5 Lg
14	39224	1	ADAP, #6 JIC x #8 ORB
15	39573	1	ADAPT, #12 JIC x #16 ORB x 90 Deg
16	3548568	1	HOSE, SUCTION 12 JIC x 12 JIC X 20" Lg
17	33429	1	ADAP, HYD TEE 8 JIC
18	39222	1	ADAP, HYD 8 JIC x 12 ORB x 90°
19	40082	1	ADAPT, HYD #10 SAE x #8 JIC x 90°
20	33718	2	ADAP, HYD 8 JIC - 6 JIC
21	33171	1	ADAPT, HYD 90 DEG #8 SAE x #6 JIC
22	36463	1	ADAP, #12 JIC x #12 ORB
23	36967	1	ADAP, #12 JIC x #10 ORB x 90Deg
24	36458	1	ADAP, HYD 8 JIC x 8 ORB
25	39690	1	ADAP, HYD 8 JIC x 90°
26	33663	1	ADAP, HYD #6 JIC x #6 ORB x 45Deg
27	3548567	1	HOSE 6 JIC x 6 JIC x 42" Lg



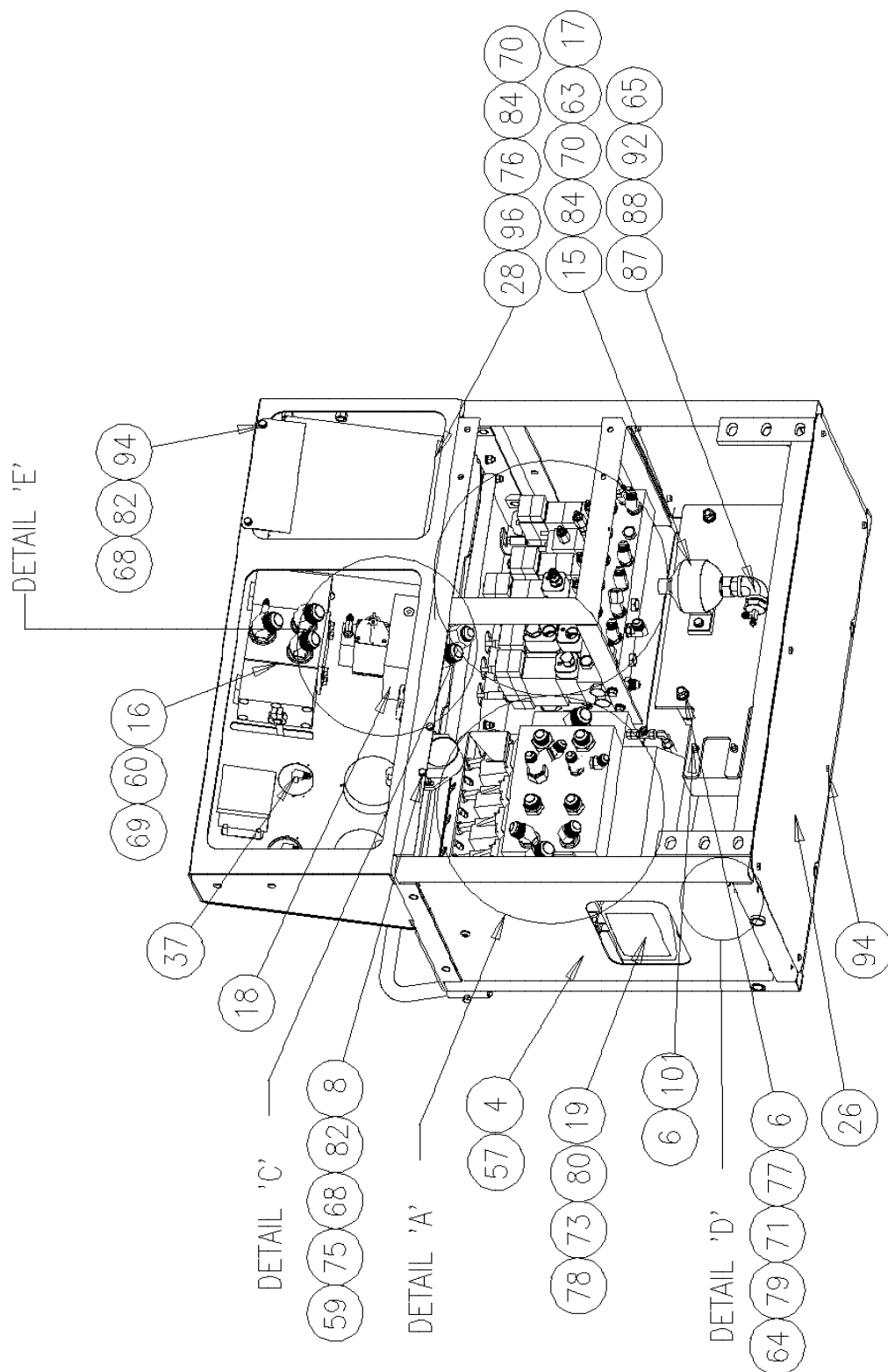
1	3548528	1	WELDMENT, CONTROL STAND
2	3547225	1	COVER, FRONT
4	3548531	1	COVER, SIDE CONSOLE
5	3549110	1	BAR, SAFETY
6	3549271	1	E-STOP ASSEMBLY CONSOLE (Page 108)
8	3549425	1	HORN
9	3548165	1	GAUGE ISOLATOR
10	3548136	2	GAUGE, PRESSURE 0-3000 psi
11	3548533	1	GAUGE, PRESSURE 0-1500 psi
12	3548534	1	GAUGE, PRESSURE 0-5000 psi
15	3548536	1	BRACKET, ACCUMULATOR
16	3548540	1	CONTROL ASSEMBLY, WATER DIVERTER (Page 110)
17	3548535	1	ACCUMULATOR
18	3548525	1	MANIFOLD ASM, PRE-TORQUE (Page 112)
19	3548521	1	LAMP, FLOOD WORK 12VDC
20	3549515	1	MANIFOLD ASSEMBLY, DO3 7 STATION (Page 114)
21	3548530	1	PANEL, FRONT
22	3548529	1	WELDMENT, PANEL REAR
23	3549211	1	VALVE ASM, HYD 4 SPOOL (Page 120)
25	3548142	2	RING, FACE
26	3549086	1	PLATE, FLOOR
28	3549104	1	BRACKET, MOUNTING
30	36445	2	ADAP, HYD 12JIC x 12ORB x 45Deg
31	33093	1	ADAP, HYD 12 JIC x 16 ORB x 45°
32	33750	1	ADAP HYD. 45Deg 16JIC x 16JIC-F
33	3544120	3	ADAP, HYD #6 JIC x #8 ORB x 45deg
34	33748	2	ADAPT, HYD #8 JIC x #8 JIC(F) x 45°
35	29000	8	ADAPT, HYD #8 JIC x #8 ORB x 45Deg
36	36457	1	ADAP, HYD #8 JIC x #8 ORB x 90Deg
37	26056	4	ADAP, HYD 4 JIC - 4 NPT x 90°
38	3541667	1	ADAP, HYD 90Deg 8 ORB x 4 JIC
39	39690	1	ADAP, HYD 8 JIC x 90°
40	49229	2	ADAP, HYD CAP 8 JIC
41	101644	4	PLUG, #10 SAE ORB
42	39572	4	ADAP HYD PLUG #8 ORB
43	36463	2	ADAP, #12 JIC x #12 ORB
44	34214	2	ADAP, HYD 12 ORB - 8 ORB F
45	33697	2	ADAP, HYD 16 JIC - 12 JIC
46	25470	1	ADAP, HYD 16JIC x 16 ORB
47	33720	1	ADAP, HYD 16 JIC (F) - 8 JIC
48	35897	10	ADAP, #4 ORB x #4 JIC
49	39511	1	ADAP, HYD 6 JIC - 4 ORB



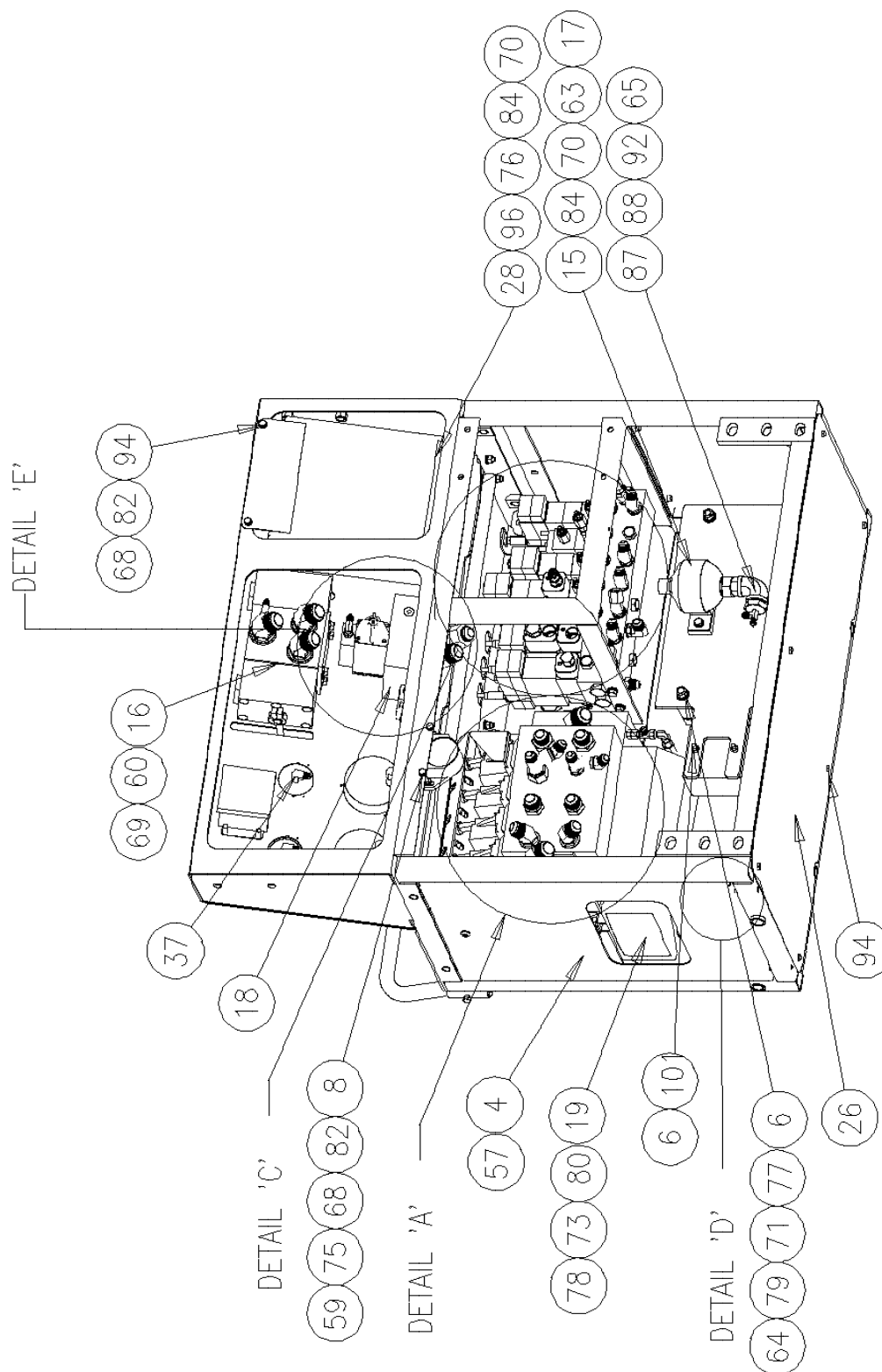
50	33718	1	ADAP, HYD 8 JIC - 6 JIC
51	36458	1	ADAP, HYD 8 JIC x 8 ORB
52	32978	1	ADAP, HYD 16 JIC TEE
53	33681	2	ADAP, HYD #4 JIC x # 4 ORB TEE
54	33429	1	ADAP, HYD TEE 8 JIC
55	39737	2	ADAP, HYD 8 JIC - 8 ORB TEE
56	36431	2	ADAP, HYD 16 JIC - 16 ORB x 45°
57	3547792	4	C/SCR, BH 3/8-16 UNC x 1 Lg.
58	44513	3	C/SCR, HH 1/2-13UNC x 1 LG
59	44584	2	C/SCR, HH 1/4-20 UNC x 1-1/2 GR8
60	44512	4	C/SCR, HH 3/8 UNC x 1 LG
61	44536	4	C/SCR, HH 3/8-16UNC x 1-1/2
62	44509	4	C/SCR, HH 5/16-18UNC x 1 LG
63	44551	2	C/SCR, HH 5/16-18 x 3/4 Lg.
64	46078	8	C/SCR, HH 7/16-14 UNC x 1 GR8
65	34141	1	ADAP, HYD 90° 12 NPTF
66	48011	4	C/SCR, SH 1/4-20 UNC x 1-1/2 GR8
67	44521	3	L/WASHER, SPLIT SPRING 1/2"
68	44518	10	L/WASHER, 1/4 ID
69	44520	8	L/WASHER, 3/8 SAE G8
70	44519	17	L/WASHER, 5/16 SAE G8
71	44660	8	L/WASHER, SPLIT SPRING 7/16 ID
72	3549421	1	ADAP, HYD 4 JIC x 4 BSP x 90°
73	93128	1	L/WASHER, SPLIT SPRING M10
74	44525	3	NUT, HEX 1/2-13 UNC
75	44567	6	L/NUT, 1/4-20UNC
76	44552	14	NUT, HEX 5/16-18UNC
77	44680	4	NUT, HEX 7/16-14 3B
78	93115	1	NUT, HEX M10 x 1.5
79	45867	12	WASHER, FLAT 7/16 ID
80	93252	1	WASHER, FLAT M10
81	44621	6	WASHER, FLAT 1/2"
82	46087	10	WASHER, FLAT 1/4
83	44859	4	WASHER, FLAT 3/8 SAE G8
84	46510	29	WASHER, FLAT 5/16 SAE G8
85	33214	2	ADAPT, HYD 90 DEG #4 JIC(F) x 4 JIC
86	36998	1	ADAP, #6 JIC (F) x #6 JIC x 90Deg
87	33065	1	ADAP, HYD 3/4 NPT x 3/4 NPT
88	36473	1	ADAP, HYD 4 NPT x 12 NPT
89	306220	2	ADAP, HYD #4 JIC(F) x #4 NPT(F)
90	39224	1	ADAP, #6 JIC x #8 ORB
91	33791	1	ADAP, HYD TEE 4 JIC 4 JIC-F



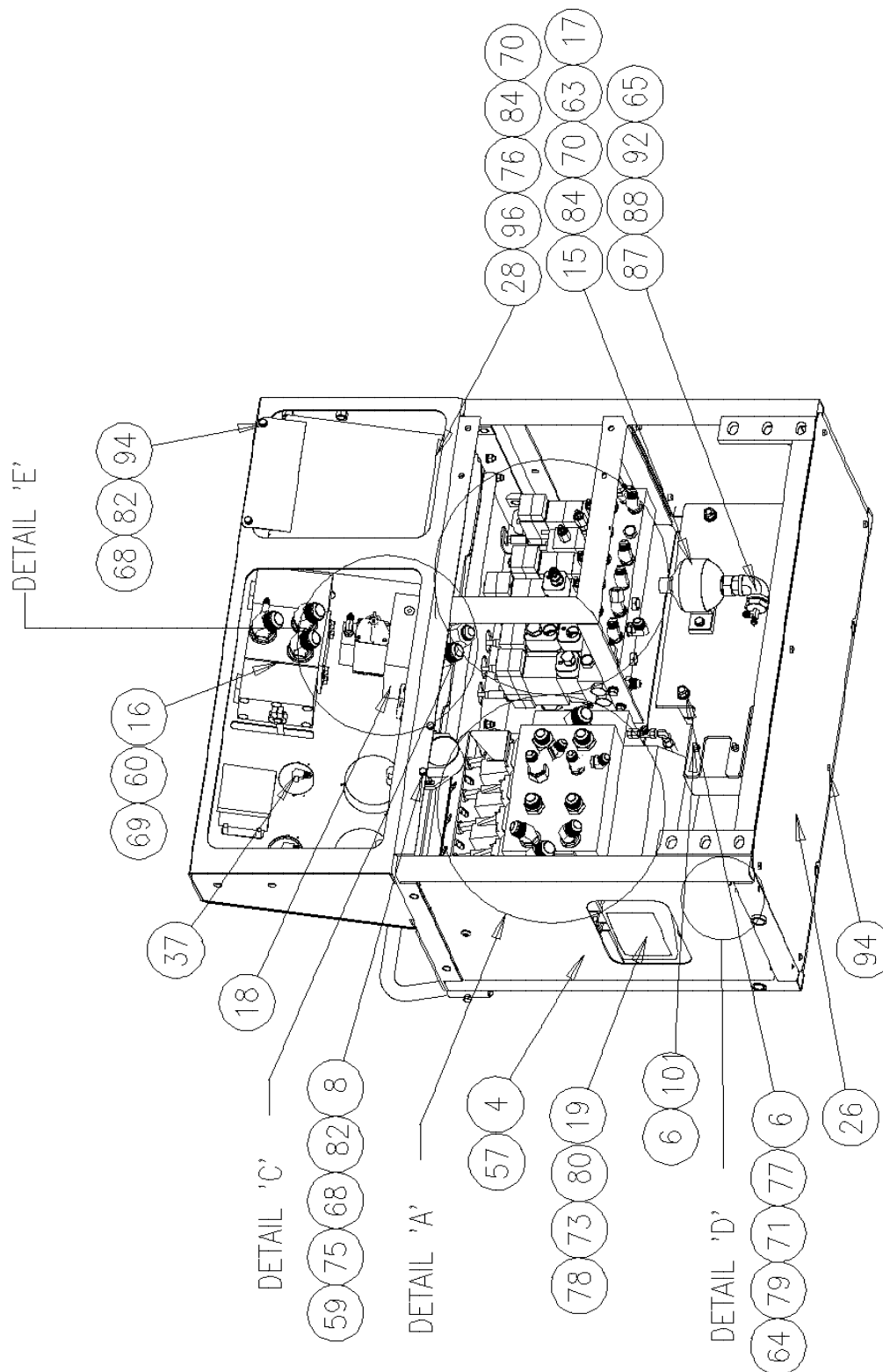
92	35674	1	ADAP, HYD 4 JIC x 4 NPT x TEE
93	60095	2	ADAP, HYD TEST PORT
94	44631	8	C/SCR, HH 1/4-UNC x 3/4 Lg.
95	3549419	12	C/SCR, BTN HD 5/16-28 UNC x 1
96	44557	4	C/SCR, HH 5/16-18UNC x 1 1/4
97	44862	2	C/SCR, HH 5/16 - 18 UNC x 2-1/4
98	3549147	1	COVER, SIDE CONSOLE
99	3549198	4	C/SCR, BTN HD M6x1-15
100	3549214	1	PLATE, LEVER LOCKOUT
101	101420	2	L/NUT, HEX 1/4 UNC NYLOK
102	3549142	1	JUNCTION BOX ASSEMBLY, FAULT (Page 122)



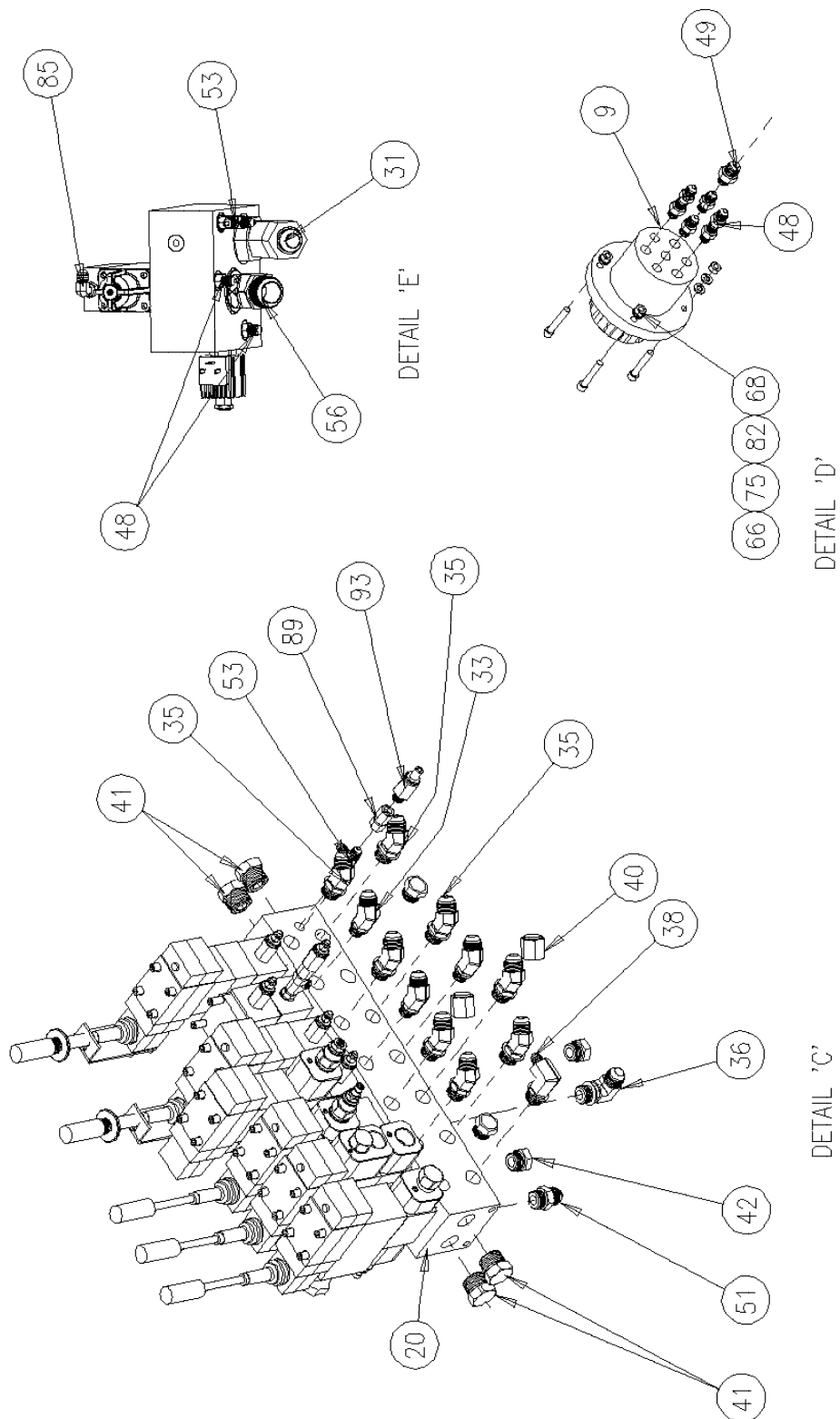
1	3548528	1	WELDMENT, CONTROL STAND
2	3547225	1	COVER, FRONT
4	3548531	1	COVER, SIDE CONSOLE
5	3549110	1	BAR, SAFETY
6	3549271	1	E-STOP ASSEMBLY CONSOLE (Page 108)
8	3549425	1	HORN
9	3548165	1	GAUGE ISOLATOR
10	3548136	2	GAUGE, PRESSURE 0-3000 psi
11	3548533	1	GAUGE, PRESSURE 0-1500 psi
12	3548534	1	GAUGE, PRESSURE 0-5000 psi
15	3548536	1	BRACKET, ACCUMULATOR
16	3548540	1	CONTROL ASSEMBLY, WATER DIVERTER (Page 110)
17	3548535	1	ACCUMULATOR
18	3548525	1	MANIFOLD ASM, PRE-TORQUE (Page 112)
19	3548521	1	LAMP, FLOOD WORK 12VDC
20	3549515	1	MANIFOLD ASSEMBLY, DO3 7 STATION (Page 114)
21	3548530	1	PANEL, FRONT
22	3548529	1	WELDMENT, PANEL REAR
23	3549211	1	VALVE ASM, HYD 4 SPOOL (Page 120)
25	3548142	2	RING, FACE
26	3549086	1	PLATE, FLOOR
28	3549104	1	BRACKET, MOUNTING
30	36445	2	ADAP, HYD 12JIC x 12ORB x 45Deg
31	33093	1	ADAP, HYD 12 JIC x 16 ORB x 45°
32	33750	1	ADAP HYD. 45Deg 16JIC x 16JIC-F
33	3544120	3	ADAP, HYD #6 JIC x #8 ORB x 45deg
34	33748	2	ADAPT, HYD #8 JIC x #8 JIC(F) x 45°
35	29000	8	ADAPT, HYD #8 JIC x #8 ORB x 45Deg
36	36457	1	ADAP, HYD #8 JIC x #8 ORB x 90Deg
37	26056	4	ADAP, HYD 4 JIC - 4 NPT x 90°
38	3541667	1	ADAP, HYD 90Deg 8 ORB x 4 JIC
39	39690	1	ADAP, HYD 8 JIC x 90°
40	49229	2	ADAP, HYD CAP 8 JIC
41	101644	4	PLUG, #10 SAE ORB
42	39572	4	ADAP HYD PLUG #8 ORB
43	36463	2	ADAP, #12 JIC x #12 ORB
44	34214	2	ADAP, HYD 12 ORB - 8 ORB F
45	33697	2	ADAP, HYD 16 JIC - 12 JIC
46	25470	1	ADAP, HYD 16JIC x 16 ORB
47	33720	1	ADAP, HYD 16 JIC (F) - 8 JIC
48	35897	10	ADAP, #4 ORB x #4 JIC
49	39511	1	ADAP, HYD 6 JIC - 4 ORB



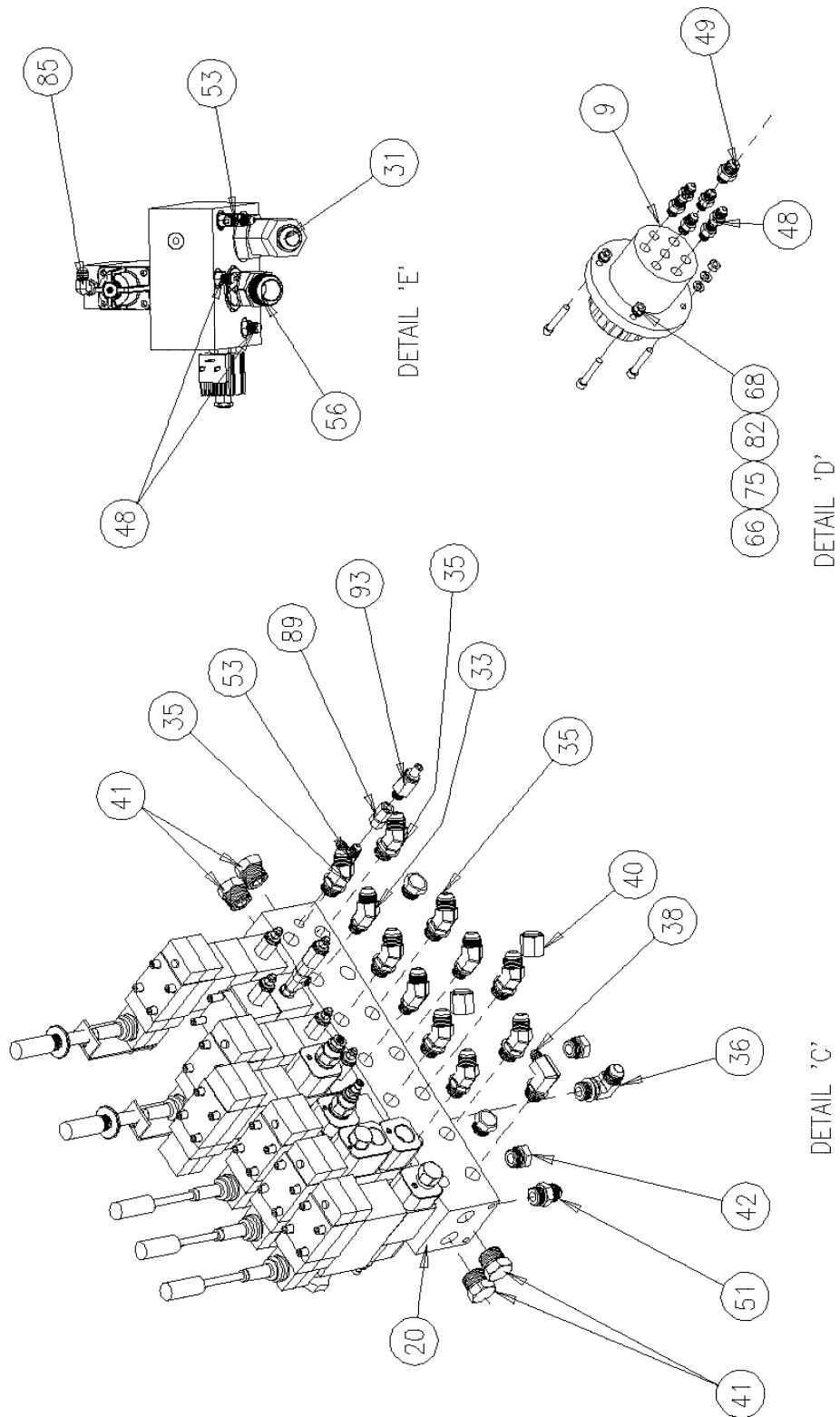
50	33718	1	ADAP, HYD 8 JIC - 6 JIC
51	36458	1	ADAP, HYD 8 JIC x 8 ORB
52	32978	1	ADAP, HYD 16 JIC TEE
53	33681	2	ADAP, HYD #4 JIC x # 4 ORB TEE
54	33429	1	ADAP, HYD TEE 8 JIC
55	39737	2	ADAP, HYD 8 JIC - 8 ORB TEE
56	36431	2	ADAP, HYD 16 JIC - 16 ORB x 45°
57	3547792	4	C/SCR, BH 3/8-16 UNC x 1 Lg.
58	44513	3	C/SCR, HH 1/2-13UNC x 1 LG
59	44584	2	C/SCR, HH 1/4-20 UNC x 1-1/2 GR8
60	44512	4	C/SCR, HH 3/8 UNC x 1 LG
61	44536	4	C/SCR, HH 3/8-16UNC x 1-1/2
62	44509	4	C/SCR, HH 5/16-18UNC x 1 LG
63	44551	2	C/SCR, HH 5/16-18 x 3/4 Lg.
64	46078	8	C/SCR, HH 7/16-14 UNC x 1 GR8
65	34141	1	ADAP, HYD 90° 12 NPTF
66	48011	4	C/SCR, SH 1/4-20 UNC x 1-1/2 GR8
67	44521	3	L/WASHER, SPLIT SPRING 1/2"
68	44518	10	L/WASHER, 1/4 ID
69	44520	8	L/WASHER, 3/8 SAE G8
70	44519	17	L/WASHER, 5/16 SAE G8
71	44660	8	L/WASHER, SPLIT SPRING 7/16 ID
72	3549421	1	ADAP, HYD 4 JIC x 4 BSP x 90°
73	93128	1	L/WASHER, SPLIT SPRING M10
74	44525	3	NUT, HEX 1/2-13 UNC
75	44567	6	L/NUT, 1/4-20UNC
76	44552	14	NUT, HEX 5/16-18UNC
77	44680	4	NUT, HEX 7/16-14 3B
78	93115	1	NUT, HEX M10 x 1.5
79	45867	12	WASHER, FLAT 7/16 ID
80	93252	1	WASHER, FLAT M10
81	44621	6	WASHER, FLAT 1/2"
82	46087	10	WASHER, FLAT 1/4
83	44859	4	WASHER, FLAT 3/8 SAE G8
84	46510	29	WASHER, FLAT 5/16 SAE G8
85	33214	2	ADAPT, HYD 90 DEG #4 JIC(F) x 4 JIC
86	36998	1	ADAP, #6 JIC (F) x #6 JIC x 90Deg
87	33065	1	ADAP, HYD 3/4 NPT x 3/4 NPT
88	36473	1	ADAP, HYD 4 NPT x 12 NPT
89	306220	2	ADAP, HYD #4 JIC(F) x #4 NPT(F)
90	39224	1	ADAP, #6 JIC x #8 ORB
91	33791	1	ADAP, HYD TEE 4 JIC 4 JIC-F



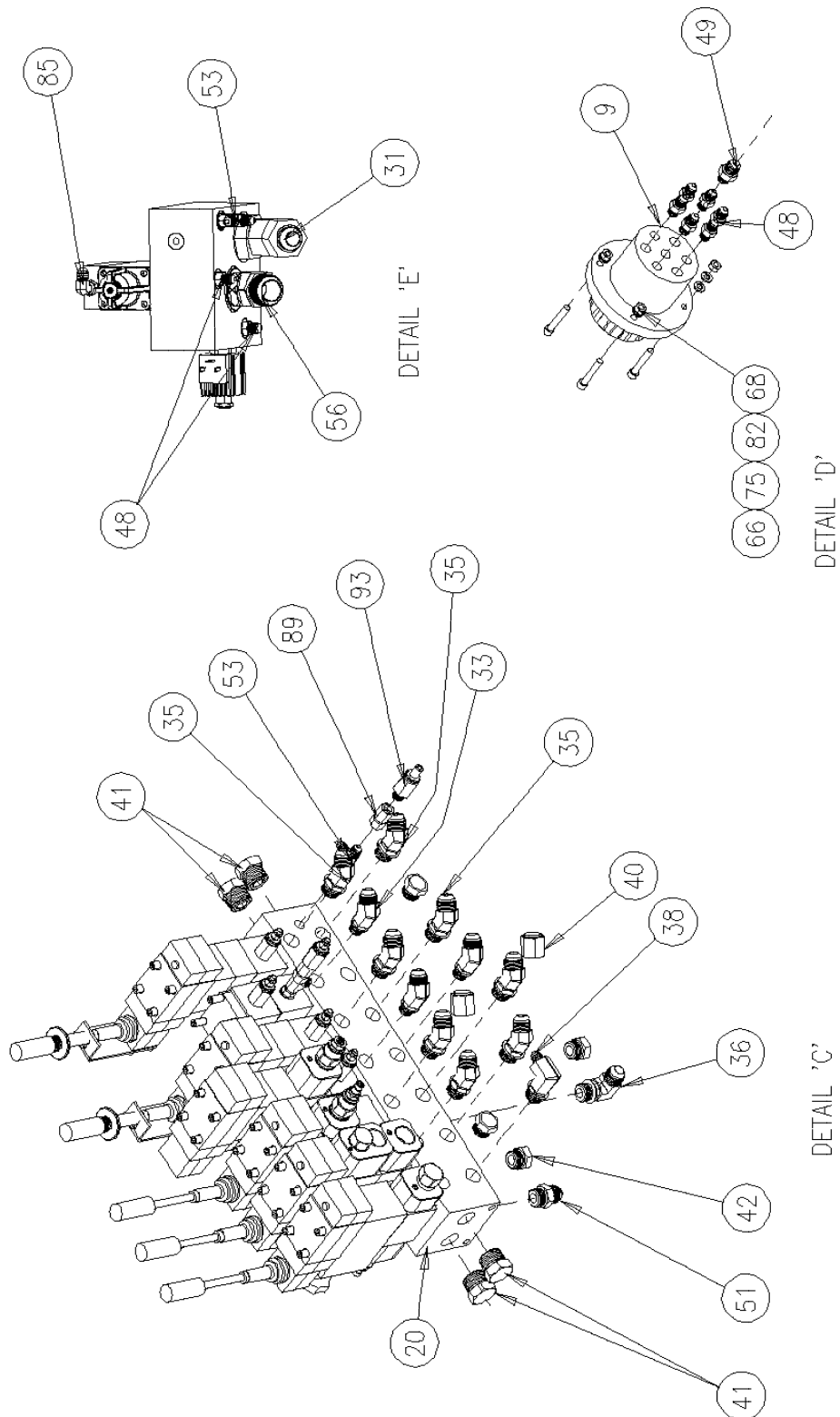
92	35674	1	ADAP, HYD 4 JIC x 4 NPT x TEE
93	60095	2	ADAP, HYD TEST PORT
94	44631	8	C/SCR, HH 1/4-UNC x 3/4 Lg.
95	3549419	12	C/SCR, BTN HD 5/16-28 UNC x 1
96	44557	4	C/SCR, HH 5/16-18UNC x 1 1/4
97	44862	2	C/SCR, HH 5/16 - 18 UNC x 2-1/4
98	3549147	1	COVER, SIDE CONSOLE
99	3549198	4	C/SCR, BTN HD M6x1-15
100	3549214	1	PLATE, LEVER LOCKOUT
101	101420	2	L/NUT, HEX 1/4 UNC NYLOK
102	3549142	1	JUNCTION BOX ASSEMBLY, FAULT (Page 122)



1	3548528	1	WELDMENT, CONTROL STAND
2	3547225	1	COVER, FRONT
4	3548531	1	COVER, SIDE CONSOLE
5	3549110	1	BAR, SAFETY
6	3549271	1	E-STOP ASSEMBLY CONSOLE (Page 108)
8	3549425	1	HORN
9	3548165	1	GAUGE ISOLATOR
10	3548136	2	GAUGE, PRESSURE 0-3000 psi
11	3548533	1	GAUGE, PRESSURE 0-1500 psi
12	3548534	1	GAUGE, PRESSURE 0-5000 psi
15	3548536	1	BRACKET, ACCUMULATOR
16	3548540	1	CONTROL ASSEMBLY, WATER DIVERTER (Page 110)
17	3548535	1	ACCUMULATOR
18	3548525	1	MANIFOLD ASM, PRE-TORQUE (Page 112)
19	3548521	1	LAMP, FLOOD WORK 12VDC
20	3549515	1	MANIFOLD ASSEMBLY, DO3 7 STATION (Page 114)
21	3548530	1	PANEL, FRONT
22	3548529	1	WELDMENT, PANEL REAR
23	3549211	1	VALVE ASM, HYD 4 SPOOL (Page 120)
25	3548142	2	RING, FACE
26	3549086	1	PLATE, FLOOR
28	3549104	1	BRACKET, MOUNTING
30	36445	2	ADAP, HYD 12JIC x 12ORB x 45Deg
31	33093	1	ADAP, HYD 12 JIC x 16 ORB x 45°
32	33750	1	ADAP HYD. 45Deg 16JIC x 16JIC-F
33	3544120	3	ADAP, HYD #6 JIC x #8 ORB x 45deg
34	33748	2	ADAPT, HYD #8 JIC x #8 JIC(F) x 45°
35	29000	8	ADAPT, HYD #8 JIC x #8 ORB x 45Deg
36	36457	1	ADAP, HYD #8 JIC x #8 ORB x 90Deg
37	26056	4	ADAP, HYD 4 JIC - 4 NPT x 90°
38	3541667	1	ADAP, HYD 90Deg 8 ORB x 4 JIC
39	39690	1	ADAP, HYD 8 JIC x 90°
40	49229	2	ADAP, HYD CAP 8 JIC
41	101644	4	PLUG, #10 SAE ORB
42	39572	4	ADAP HYD PLUG #8 ORB
43	36463	2	ADAP, #12 JIC x #12 ORB
44	34214	2	ADAP, HYD 12 ORB - 8 ORB F
45	33697	2	ADAP, HYD 16 JIC - 12 JIC
46	25470	1	ADAP, HYD 16JIC x 16 ORB
47	33720	1	ADAP, HYD 16 JIC (F) - 8 JIC
48	35897	10	ADAP, #4 ORB x #4 JIC
49	39511	1	ADAP, HYD 6 JIC - 4 ORB



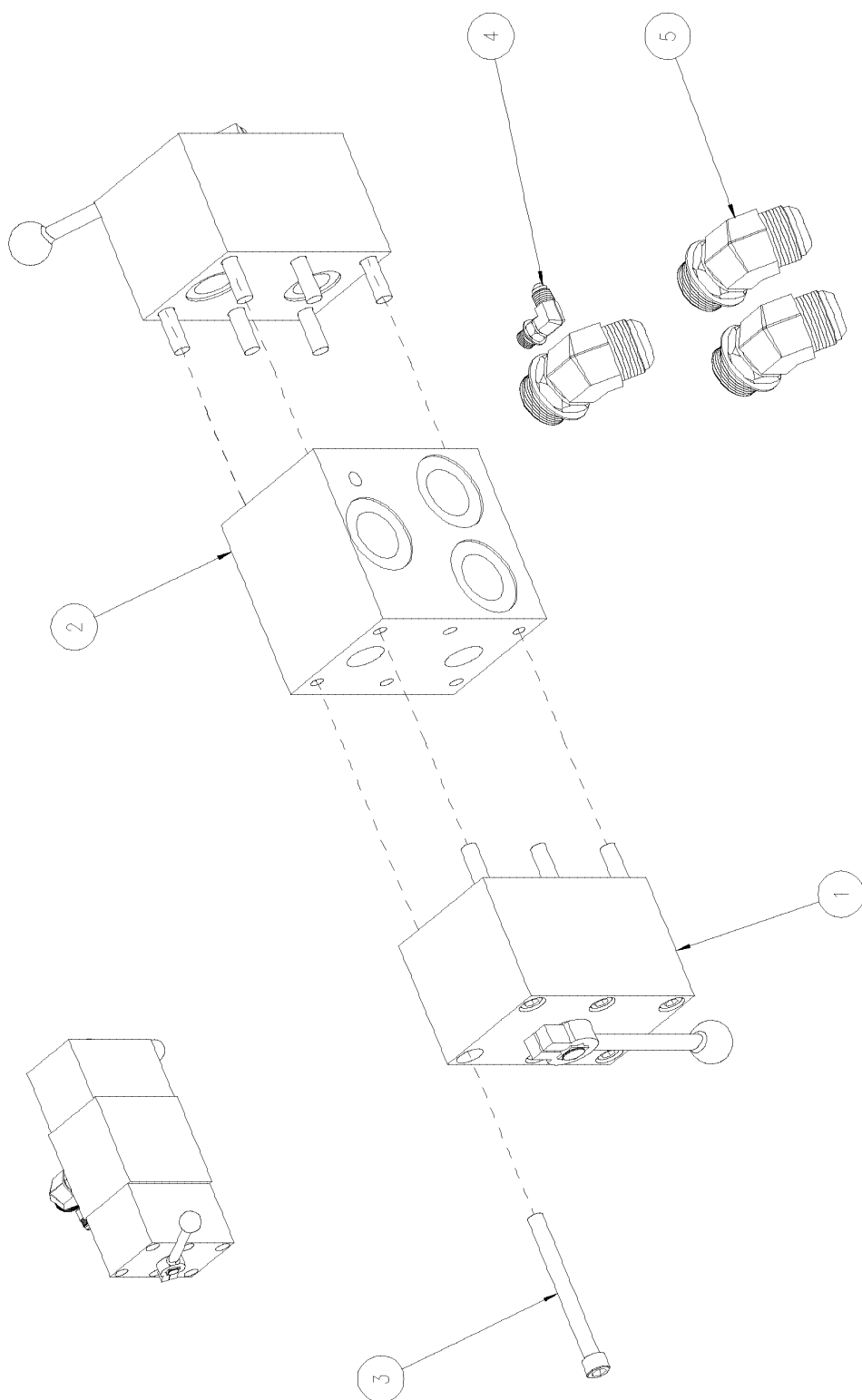
50	33718	1	ADAP, HYD 8 JIC - 6 JIC
51	36458	1	ADAP, HYD 8 JIC x 8 ORB
52	32978	1	ADAP, HYD 16 JIC TEE
53	33681	2	ADAP, HYD #4 JIC x # 4 ORB TEE
54	33429	1	ADAP, HYD TEE 8 JIC
55	39737	2	ADAP, HYD 8 JIC - 8 ORB TEE
56	36431	2	ADAP, HYD 16 JIC - 16 ORB x 45°
57	3547792	4	C/SCR, BH 3/8-16 UNC x 1 Lg.
58	44513	3	C/SCR, HH 1/2-13UNC x 1 LG
59	44584	2	C/SCR, HH 1/4-20 UNC x 1-1/2 GR8
60	44512	4	C/SCR, HH 3/8 UNC x 1 LG
61	44536	4	C/SCR, HH 3/8-16UNC x 1-1/2
62	44509	4	C/SCR, HH 5/16-18UNC x 1 LG
63	44551	2	C/SCR, HH 5/16-18 x 3/4 Lg.
64	46078	8	C/SCR, HH 7/16-14 UNC x 1 GR8
65	34141	1	ADAP, HYD 90° 12 NPTF
66	48011	4	C/SCR, SH 1/4-20 UNC x 1-1/2 GR8
67	44521	3	L/WASHER, SPLIT SPRING 1/2"
68	44518	10	L/WASHER, 1/4 ID
69	44520	8	L/WASHER, 3/8 SAE G8
70	44519	17	L/WASHER, 5/16 SAE G8
71	44660	8	L/WASHER, SPLIT SPRING 7/16 ID
72	3549421	1	ADAP, HYD 4 JIC x 4 BSP x 90°
73	93128	1	L/WASHER, SPLIT SPRING M10
74	44525	3	NUT, HEX 1/2-13 UNC
75	44567	6	L/NUT, 1/4-20UNC
76	44552	14	NUT, HEX 5/16-18UNC
77	44680	4	NUT, HEX 7/16-14 3B
78	93115	1	NUT, HEX M10 x 1.5
79	45867	12	WASHER, FLAT 7/16 ID
80	93252	1	WASHER, FLAT M10
81	44621	6	WASHER, FLAT 1/2"
82	46087	10	WASHER, FLAT 1/4
83	44859	4	WASHER, FLAT 3/8 SAE G8
84	46510	29	WASHER, FLAT 5/16 SAE G8
85	33214	2	ADAPT, HYD 90 DEG #4 JIC(F) x 4 JIC
86	36998	1	ADAP, #6 JIC (F) x #6 JIC x 90Deg
87	33065	1	ADAP, HYD 3/4 NPT x 3/4 NPT
88	36473	1	ADAP, HYD 4 NPT x 12 NPT
89	306220	2	ADAP, HYD #4 JIC(F) x #4 NPT(F)
90	39224	1	ADAP, #6 JIC x #8 ORB
91	33791	1	ADAP, HYD TEE 4 JIC 4 JIC-F



92	35674	1	ADAP, HYD 4 JIC x 4 NPT x TEE
93	60095	2	ADAP, HYD TEST PORT
94	44631	8	C/SCR, HH 1/4-UNC x 3/4 Lg.
95	3549419	12	C/SCR, BTN HD 5/16-28 UNC x 1
96	44557	4	C/SCR, HH 5/16-18UNC x 1 1/4
97	44862	2	C/SCR, HH 5/16 - 18 UNC x 2-1/4
98	3549147	1	COVER, SIDE CONSOLE
99	3549198	4	C/SCR, BTN HD M6x1-15
100	3549214	1	PLATE, LEVER LOCKOUT
101	101420	2	L/NUT, HEX 1/4 UNC NYLOK
102	3549142	1	JUNCTION BOX ASSEMBLY, FAULT (Page 122)

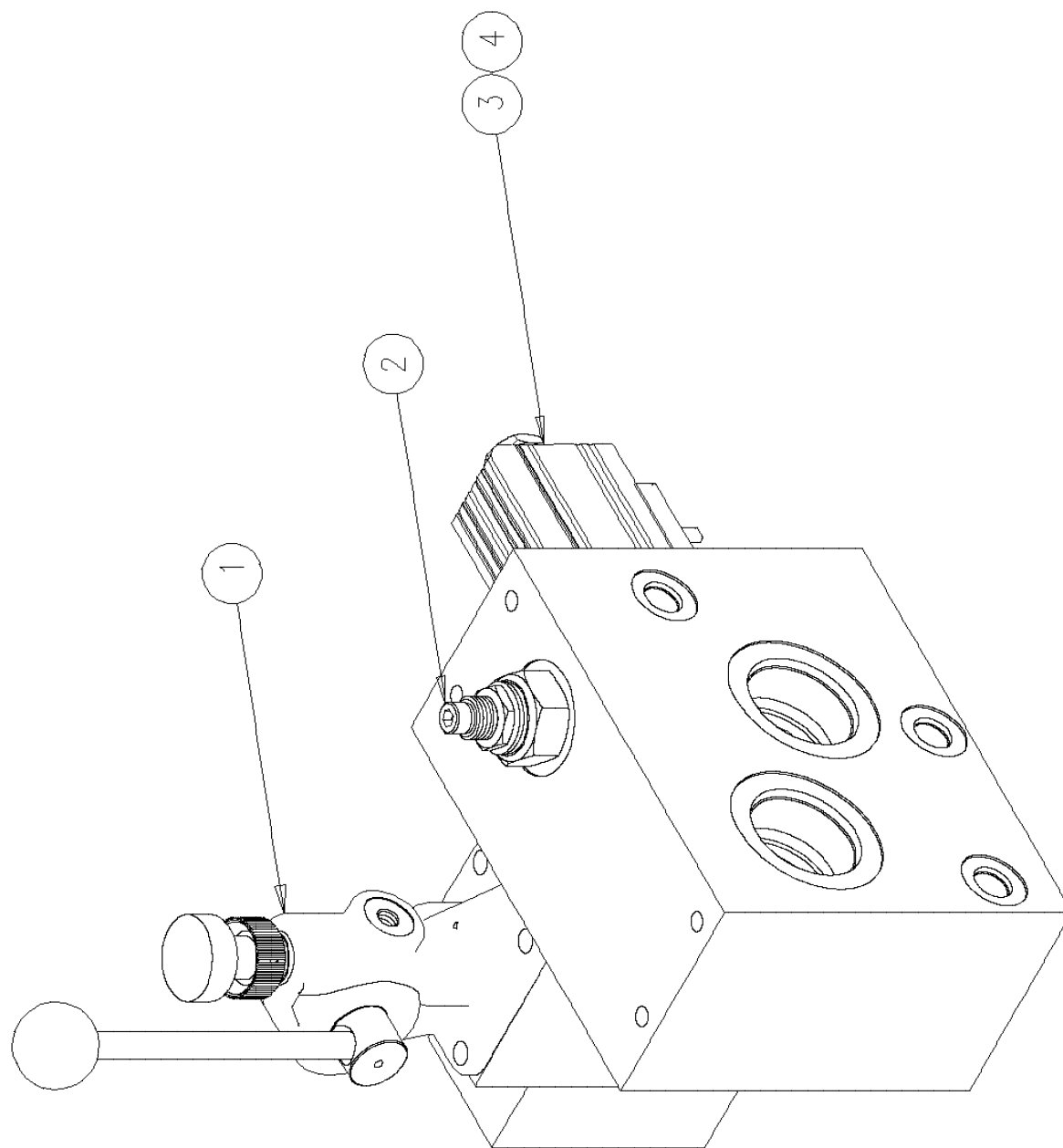
3549271 E-STOP ASSEMBLY CONSOLE

1	3549112	1	ENCLOSURE, E-STOP CONSOLE
2	3549458	1	STRAIN RELIEF
3	3549462	1	CABLE, 2 CONDUCTOR
4	3549463	1	E-STOP BUTTON
5	3549456	1	BLOCK, CONTACT N.O.
6	3549457	1	BLOCK, CONTACT N.C.



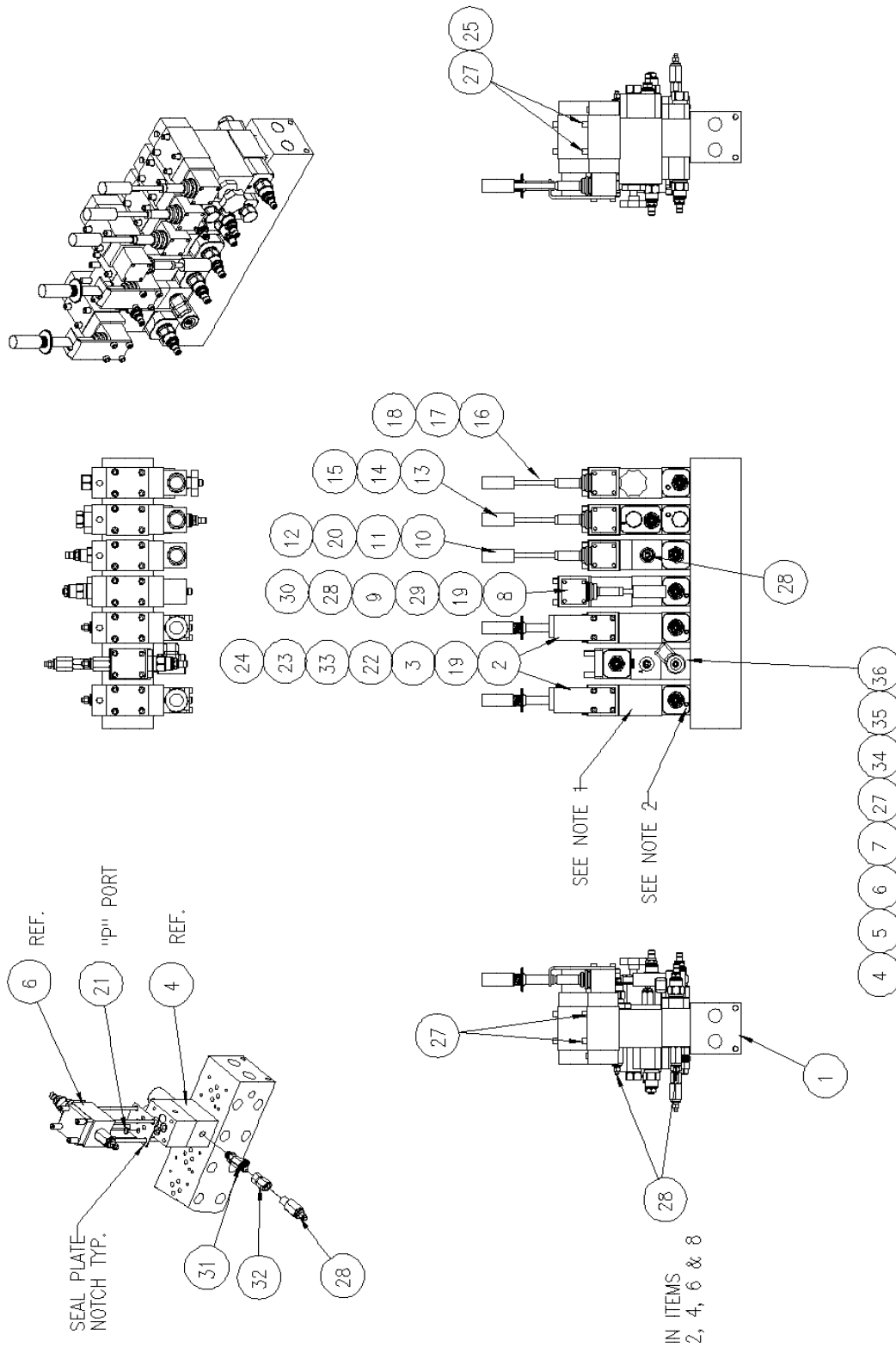
3548540 CONTROL ASSEMBLY, WATER DIVERTER

1	3548541	2	VALVE, WATER DIVERTER
2	3548542	1	MANIFOLD, WATER DIVERTER
3	3548556	12	C/SCR, SH 3/8-16 UNC x 3 3/4 Lg.
4	37015	1	ADAP, #4 ORB x #4 JIC x 90Deg
5	36431	3	ADAP, HYD 16 JIC - 16 ORB x 45°

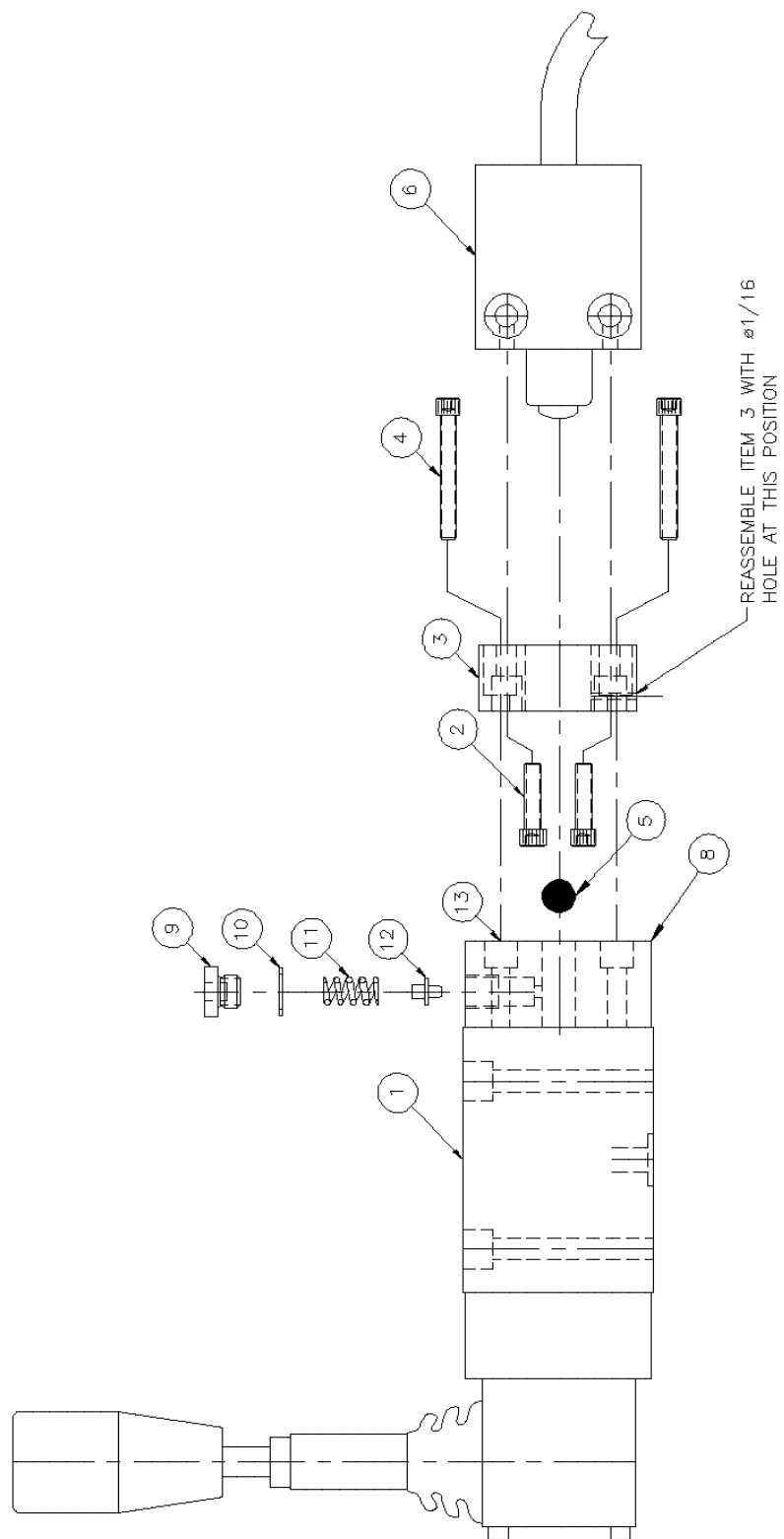


3548525 MANIFOLD ASM, PRE-TORQUE

1	5003505	1	VALVE, HYD FOM CONTROL
2	5003506	1	CARTRIDGE, HYD RELIEF
3	5003507	1	CARTRIDGE, HYD SOLENOID
4	5003508	1	COIL, SOLENOID 12VDC



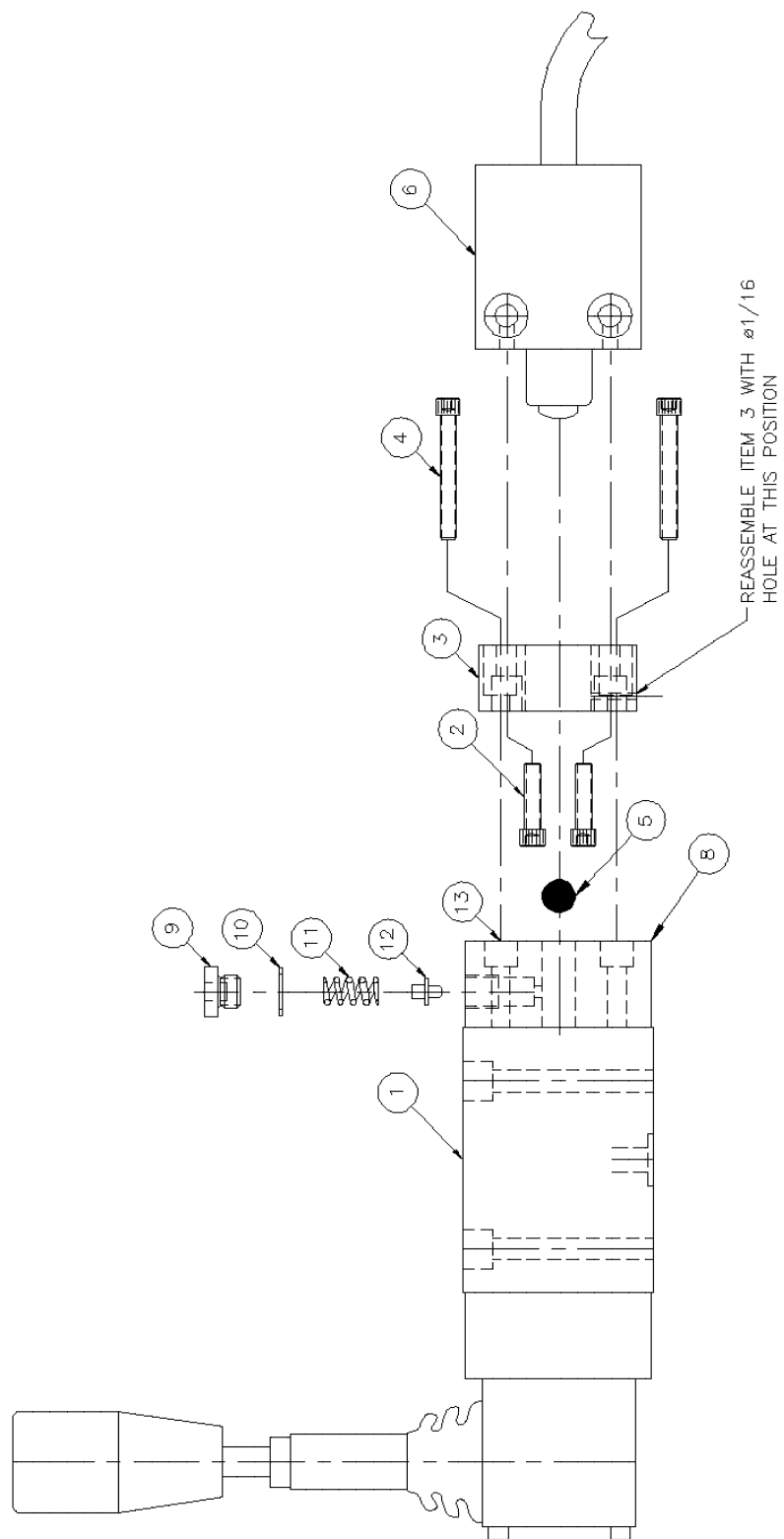
1	3544172	1	MANIFOLD REWORK, D03
2	100231	2	VALVE, PRESSURE, CONTROL CARTRIDGE # 97003
3	3544273	2	VALVE, CTRL CHUCK & ROD CLAMP
4	101664	1	VALVE, BODY HOIST BRAKE RELEASE
5	3549535	1	CARTRIDGE, HYD SOLENOID (BRAKE) COIL # 3549536
6	100229	1	VALVE, PRESS. CONTROL (ROTATION) CARTRIDGE # 97004
7	100230	1	PLATE, CROSSOVER
8	3543963	1	VALVE, PRESSURE REDUCING
9	3548801	1	VALVE, CONTROL SIDE SHIFT
10	101878	1	VALVE, FEED MUD MIXER CARTRIDGE # 97005
11	100226	1	VALVE, SEQUENCE MUD MIXER CARTRIDGE # 97006
12	3544272	1	VALVE, CONTROL MUD MIXER
13	3544145	1	VALVE, CHECK ROD MAKE/BREAK
14	3544144	1	VALVE, PRESS CTRL ROD MAKE/BRK
15	3549514	1	VALVE, DIRECTIONAL (PRE-TORQUE) (Page 116)
16	3549516	1	VALVE, CONTROL HEAD FEED (Page 118)
17	104101	1	VALVE, PRESSURE REDUCING
18	3544270	1	VALVE, FEED CONTROL HEAD
19	3544263	3	SPACER, 2-1/2"
20	3544262	1	SPACER, 3/4"
21	3544264	1	ORIFICE, FIXED (.018") (PORT "P")
22	3544239	2	PLATE, LOCKING
23	3544240	2	PLUNGER, LOCKING
24	3544241	2	SPRING, COMPRESSION
25	3544252	20	STUD, #10-24UNC x 6.56 LG
27	100608	28	NUT, STUD #10-24 NC
28	60093	6	CPLG, DIAGNOSTIC
29	3547787	1	VALVE, HEAD OPENER
30	3548113	4	STUD, #10-24UNC x 8.31 Lg.
31	33681	1	ADAP, HYD #4 JIC x # 4 ORB TEE
32	306220	1	ADAP, HYD #4 JIC(F) x #4 NPT(F)
33	93398	8	C/SCR, SH M5x.8x15 GR10.9
34	3549536	1	VALVE, 12VDC COIL
35	5003967	4	STUD, #10-24 UNC X 6.38
36	5002214	1	SUBPLATE, DO3



3549514 VALVE, DIRECTIONAL (PRE-TORQUE)

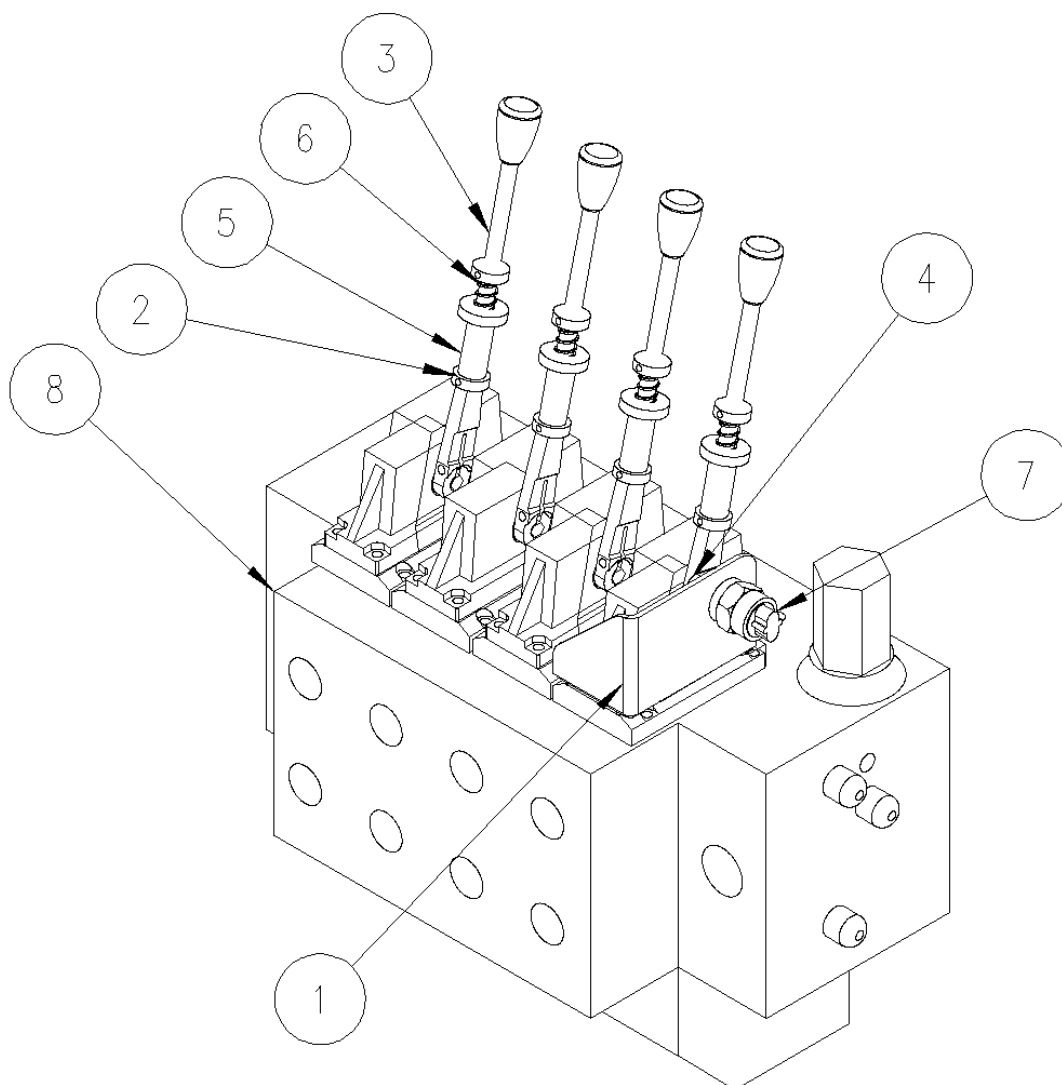
1	3544274	1	VALVE, CONTROL HEAD FLOAT
2	3546011	2	C/SCR, SH #8-32 x 5/8" Lg.
3	3546012	1	MOUNT, SWITCH
4	3546013	4	C/SCR, SH M4 x 30mm Lg.
5	38044	1	BALL, 5/16 ST
6 00		REF	SWITCH, LIMIT

00) NOT INCLUDED - SEE ELECTRICAL GRP



3549516 VALVE, CONTROL HEAD FEED

1	3544271	1	VALVE, CONTROL HEAD FEED
2	3546011	2	C/SCR, SH #8-32 x 5/8" Lg.
3	3546012	1	MOUNT, SWITCH
4	3546013	4	C/SCR, SH M4 x 30mm Lg.
5	38044	1	BALL, 5/16 ST
6		REF	SWITCH, LIMIT



AVAILABLE SPARES KIT

5000030KIT, SEAL DANFOSS PVG120

5000029KIT, DETENT PVG 120 ROTATION

5003417KIT, ROTATION VALVE SPOOL

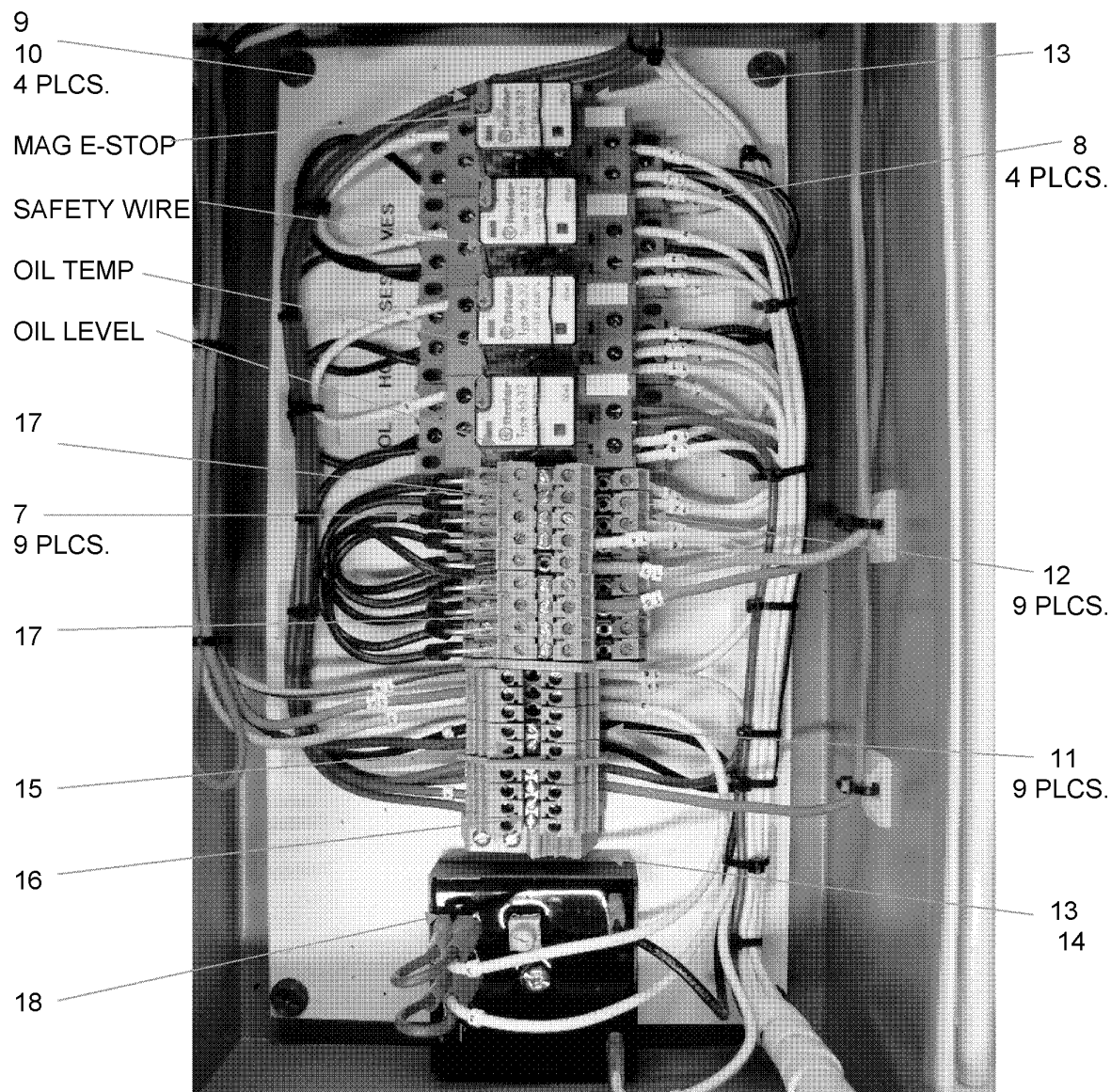
5003386VALVE SECTION, ROTATION

5003403VALVE SECTION, FAST FEED

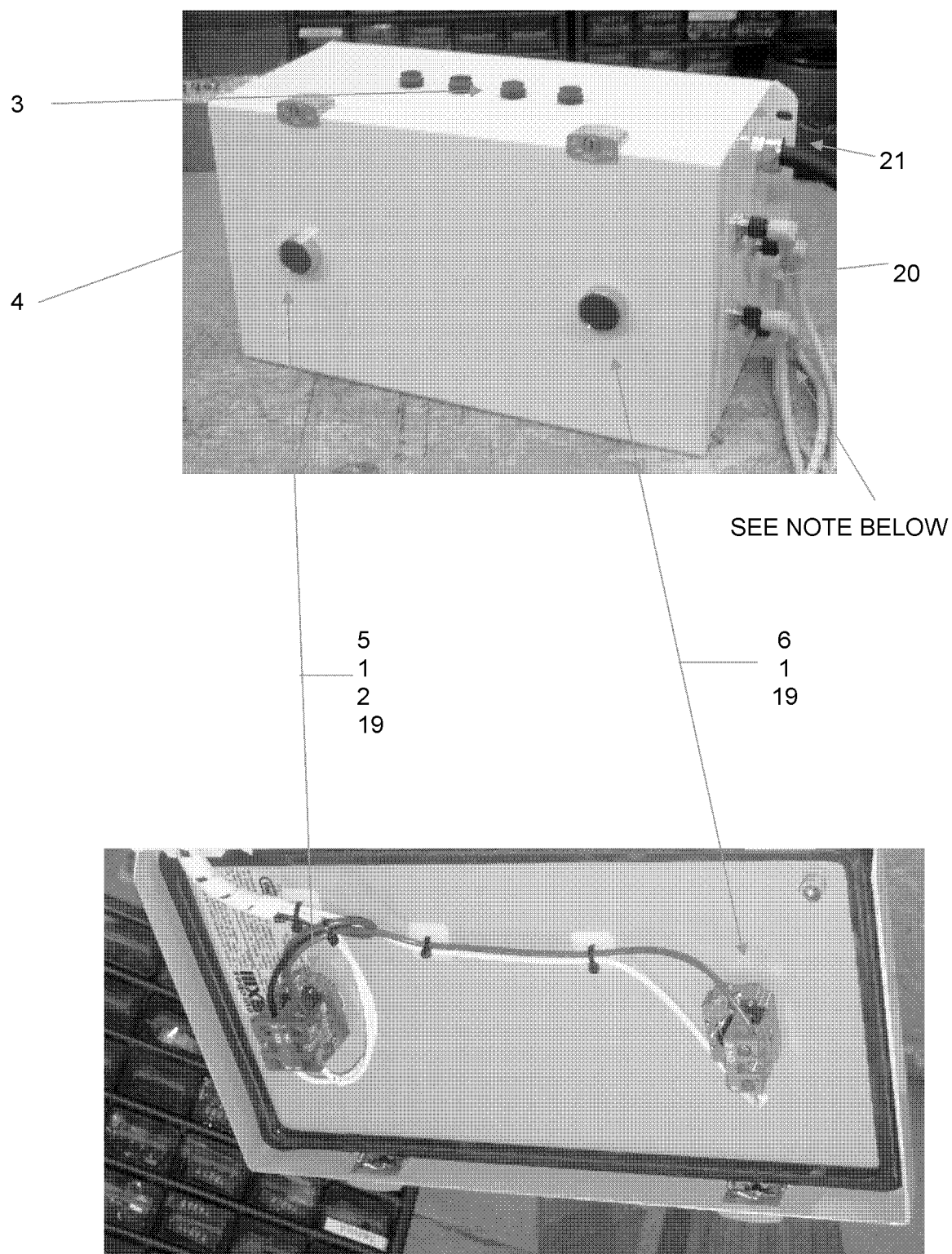
5003405VALVE SECTION, MAIN WINCH

5003407VALVE SECTION, WIRELINE

1	3549209	1	BRACKET
2	3544249	8	COLLAR, SHAFT 10MM
3	5000160	4	HANDLE, VALVE REWORKED
4	3549257	1	BRACKET, SWITCH MOUNTING
5	3544246	4	PLUNGER, LOCKING
6	3544247	4	SPRING, COMPRESSION
7	3549213	1	SWITCH, NEUTRAL POSTION
8	3547757	1	MAIN CONTROL VALVE, DANFOSS



1	3549456	5	BLOCK, CONTACT N.O.
2	3549457	2	BLOCK, CONTACT N.C.
3	3549517	4	LIGHT, IDEC
4	3549518	1	ENCLOSURE, FAULT BOX
5	3549519	1	PUSH BUTTON, GREEN
6	3549520	1	PUSH BUTTON, BLACK
7	3549521	9	DIODE, IN5402
8	3549522	4	DIODE, IN4007
9	3549523	4	BASE, RELAY
10	3548327	4	RELAY, 12VDC
11	3549524	9	BLOCK, TERMINAL THRU
12	3549525	9	BLOCK, TERMINAL DOUBLE THRU
13	3549526	2	END STOP
14	3549527	1	END PLATE
15	3549528	1	JUMPER, 2 POLE
16	3549530	1	JUMPER, 4 POLE CA727/4
17	3549530	2	JUMPER, 4 POLE CA727/4
18	3549531	1	TIMER
19	3549532	9	LATCH, CONTACT
20	3549481	4	CONNECTOR, PANEL 4 PIN TURCK
21	3549533	1	CABLE, POWER



NOTE: THESE 4 CABLES ARE A PART OF 3549437 REF.

1	3549456	5	BLOCK, CONTACT N.O.
2	3549457	2	BLOCK, CONTACT N.C.
3	3549517	4	LIGHT, IDEC
4	3549518	1	ENCLOSURE, FAULT BOX
5	3549519	1	PUSH BUTTON, GREEN
6	3549520	1	PUSH BUTTON, BLACK
7	3549521	9	DIODE, IN5402
8	3549522	4	DIODE, IN4007
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19	3549532	9	LATCH, CONTACT
20	3549481	4	CONNECTOR, PANEL 4 PIN TURCK
21	3549533	1	CABLE, POWER



1	3547732	1	ENGINE, CUMMINS QSB6.7 TIER 3 (BARE) (Page 128)
3	3548254	1	FUEL PIPING GROUP 225 GAL TANK (Page 138)
4	3548256	1	BATTERY WIRING GROUP (Page 140)
5	3548035	1	MASTER DISCONNECT PANEL (Page 142)
6	3548419	1	PUMP DRIVE MODULE TIER III ONLY (Page 144)
7	3549102	1	ELECTRICAL BOX, ENGINE CONTROL (Page 146)
10		1	



1	00	3548468	REF	SPARE PARTS KIT, CUMMINS FILTERS (AIR,OIL) (Page 130)
2	00	3548467	REF	SPARE PARTS KIT, CUMMINS (MINOR SPARES) (Page 132)
3	00	3549134	REF	SPARE PARTS KIT, CUMMINS SHUT DOWN (MURPHY) (Page 134)
4	00	5001971	REF	KIT, QSB6.7 SPARES TIER3 (Page 136)
5			1	

00) SPARES KITS LISTED ARE FOR REFERENCE ONLY AND DO NOT COME WITH THE BARE ENGINE

 BOART LONGYEAR		SPECIFICATION																				
3548468A1.DOC																						
TITLE: SPARES KIT, QSB6.7 CUMMINS FILTER (Tier III)																						
PREPARED:	MF	REV:	ECN:	DATE:																		
AUTHORIZED:		REV:	ECN:	DATE:																		
APPROVED:		REV:	ECN:	DATE:																		
USED ON:	3547154	REV: A	ECN: ISSUED	DATE: 03/14/07																		
<table border="1"> <thead> <tr> <th>PART NO.</th> <th>QTY.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>FF5421</td> <td>1</td> <td>Fuel Filter (BLI #3548469)</td> </tr> <tr> <td>FS19732</td> <td>1</td> <td>Fuel Separator (BLI #3548470)</td> </tr> <tr> <td>LS3970</td> <td>1</td> <td>Lube Oil Filter (BLI #3548471)</td> </tr> <tr> <td>AF25454</td> <td>1</td> <td>Air Filter, Primary (BLI #3548472)</td> </tr> <tr> <td>AF25468</td> <td>1</td> <td>Air Filter, Secondary (BLI #3548473)</td> </tr> </tbody> </table>					PART NO.	QTY.	DESCRIPTION	FF5421	1	Fuel Filter (BLI #3548469)	FS19732	1	Fuel Separator (BLI #3548470)	LS3970	1	Lube Oil Filter (BLI #3548471)	AF25454	1	Air Filter, Primary (BLI #3548472)	AF25468	1	Air Filter, Secondary (BLI #3548473)
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<u>Approved Supplier / Manufacturer:</u> CUMMINS																						

3548468A.doc

page 1 of 1

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3548468 SPARE PARTS KIT, CUMMINS FILTERS (AIR,OIL)

3548467 SPARE PARTS KIT, CUMMINS (MINOR SPARES)

1	3548474	1	ALTERNATOR
2	3548475	1	STARTER DENSO
3	3548476	1	WATER PUMP SPARES
4	3548477	1	THERMOSTAT
5	3548478	1	SEAL, THERMOSTAT
6	3548479	2	BELT, WATER PUMP / FAN
7		1	TENSIONER, BELT
8		1	INJECTOR
9		4	CLAMP, HOSE
10		4	CLAMP, HOSE # 40
11		2	CLAMP, HOSE # 10
12		2	HOSE, CHARGE AIR COOLER
13		2	HOSE, COOLANT
14		2	HOSE, COOLANT
15		4	CLAMP, HOSE
16		4	CLAMP, HOSE
17		1	HOSE, RADIATOR FILL
18		1	HOSE, VENT
19		5	FUSE AT05
20		5	FUSE AT15
21		5	FUSE AT20
22	3549535	1	CARTRIDGE, HYD SOLENOID (BRAKE) COIL # 3549536
23	3549536	1	VALVE, 12VDC COIL
24	3549537	1	SENSOR, RPM
25	3549538	1	SENSOR, OIL PRESSURE
26	3549539	1	SENSOR, COOLANT LEVEL
27	5000202	1	SWITCH, STARTER RELAY

 BOART LONGYEAR		SPECIFICATION																																																									
3549134A1.DOC																																																											
TITLE: KIT, QSB 6.7 CONTROL PANEL SPARES																																																											
PREPARED:	MF	REV:	ECN:																																																								
AUTHORIZED:		REV:	ECN:																																																								
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PART NO.	QTY.	DESCRIPTION																																																									
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<u>Approved Supplier / Manufacturer:</u> CUMMINS																																																											

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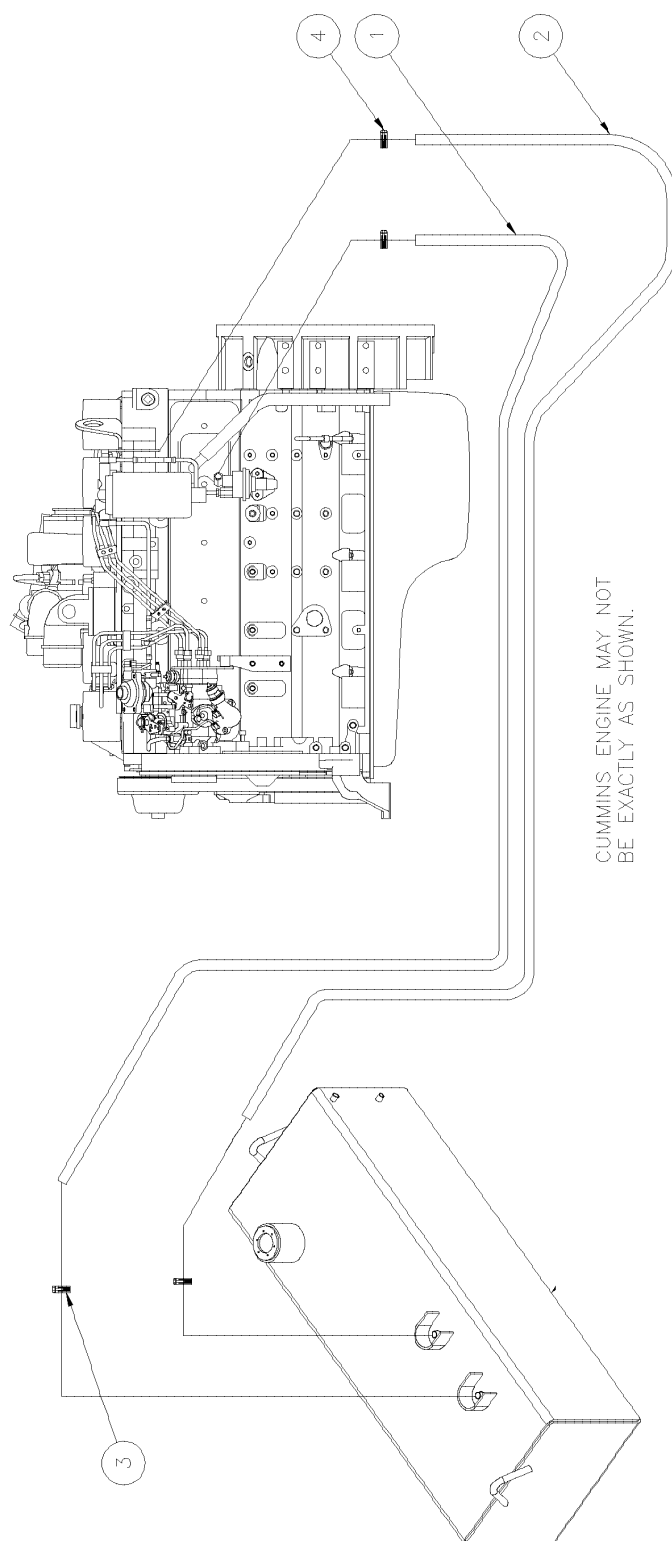
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3549134 SPARE PARTS KIT, CUMMINS SHUT DOWN (MURPHY)

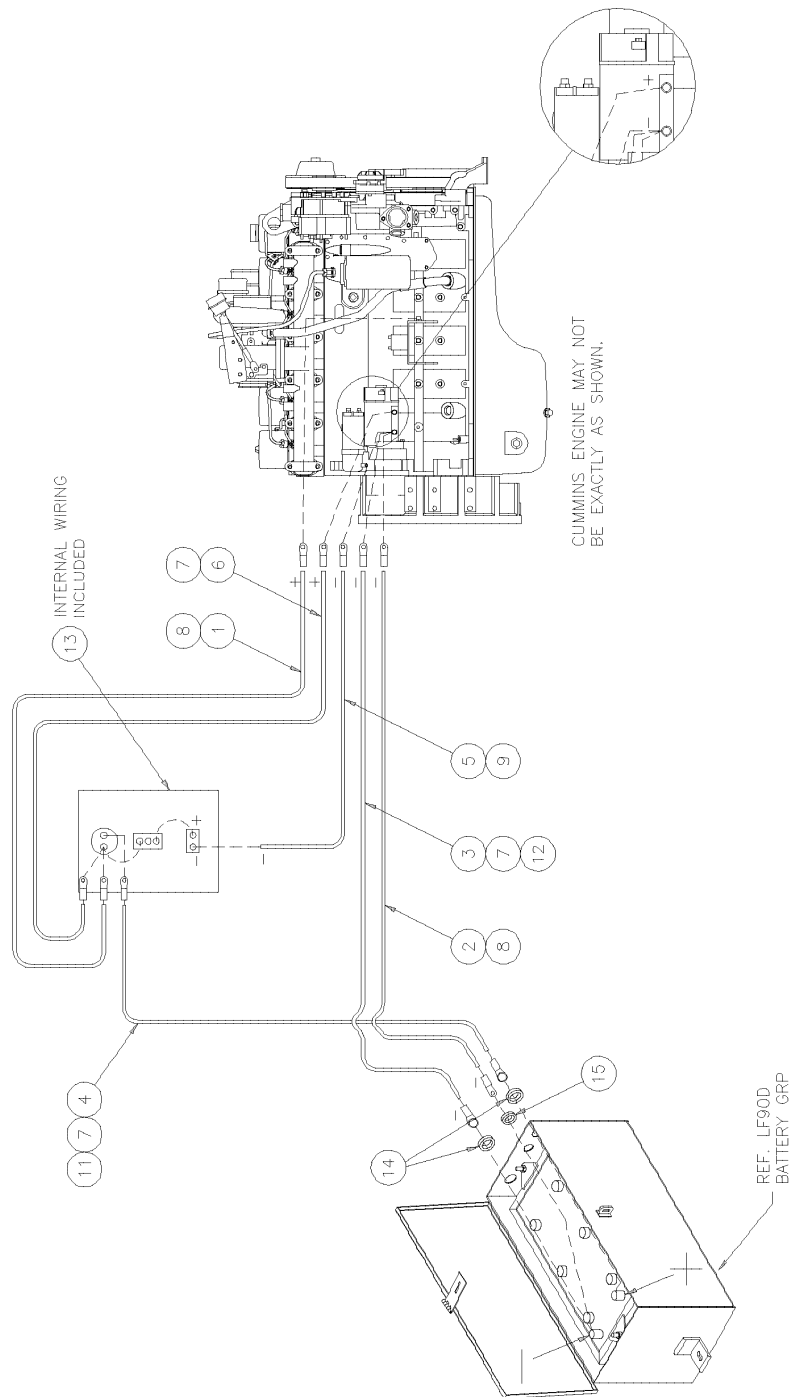
5001971 KIT, QSB6.7 SPARES TIER3

1	3548476	1	WATER PUMP SPARES
2	5001972	1	THERMOSTAT, QSB6.7 TIER 3
3	3548478	1	SEAL, THERMOSTAT
4	3548479	2	BELT, WATER PUMP / FAN
5	5001973	1	BELT, TENSIONER
6	5001974	1	INJECTOR
7	5001975	4	CLAMP, RAD HOSE #32
8	5001976	4	CLAMP, RAD HOSE #40
9	5001977	2	CLAMP, RAD HOSE #10
10	5001978	2	HOSE, CHARGE AIR COOLER 3"ID
11	5001979	2	HOSE, CHARGE AIR COOLER 4"ID
12	5001980	2	HOSE, RAD UPPER
13	5001981	2	HOSE, RAD LOWER
14	5001982	4	CLAMP, HOSE 3" CAC
15	5001983	4	CLAMP, HOSE 4" CAC
16	5001984	1	HOSE, RAD FILL 3/4"
17	5001985	1	HOSE, RAD VENT 3/8"
18	5001986	5	FUSE, 5 AMP
19	5001987	5	FUSE, 15 AMP
20	5001988	5	FUSE, 20 AMP
21	5001989	1	SENSOR, COOLANT TEMP
22	5001990	1	SENSOR, AIR INTAKE TEMP
23	3549537	1	SENSOR, RPM
24	3549538	1	SENSOR, OIL PRESSURE
25	3549539	1	SENSOR, COOLANT LEVEL
26	5000202	1	SWITCH, STARTER RELAY

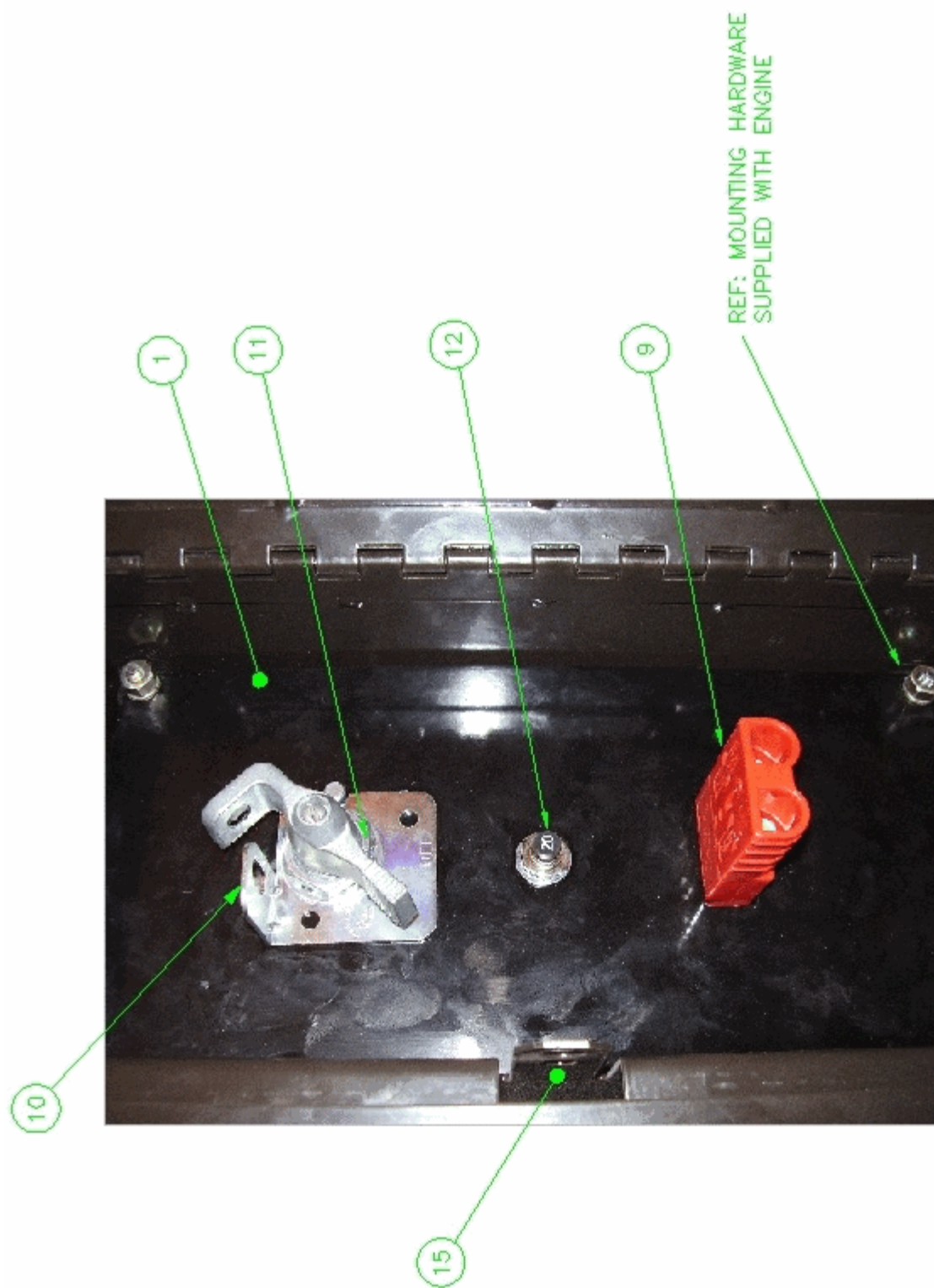


3548254 FUEL PIPING GROUP 225 GAL TANK

1	3542252	1	HOSE Ø1/2 X 120" Lg.
2	3544544	1	HOSE, 5/16 ID SAE30R7
3	8500435	2	CLAMP. HOSE SIZE 8
4	306143	2	CLAMP, HOSE 5/8 OD

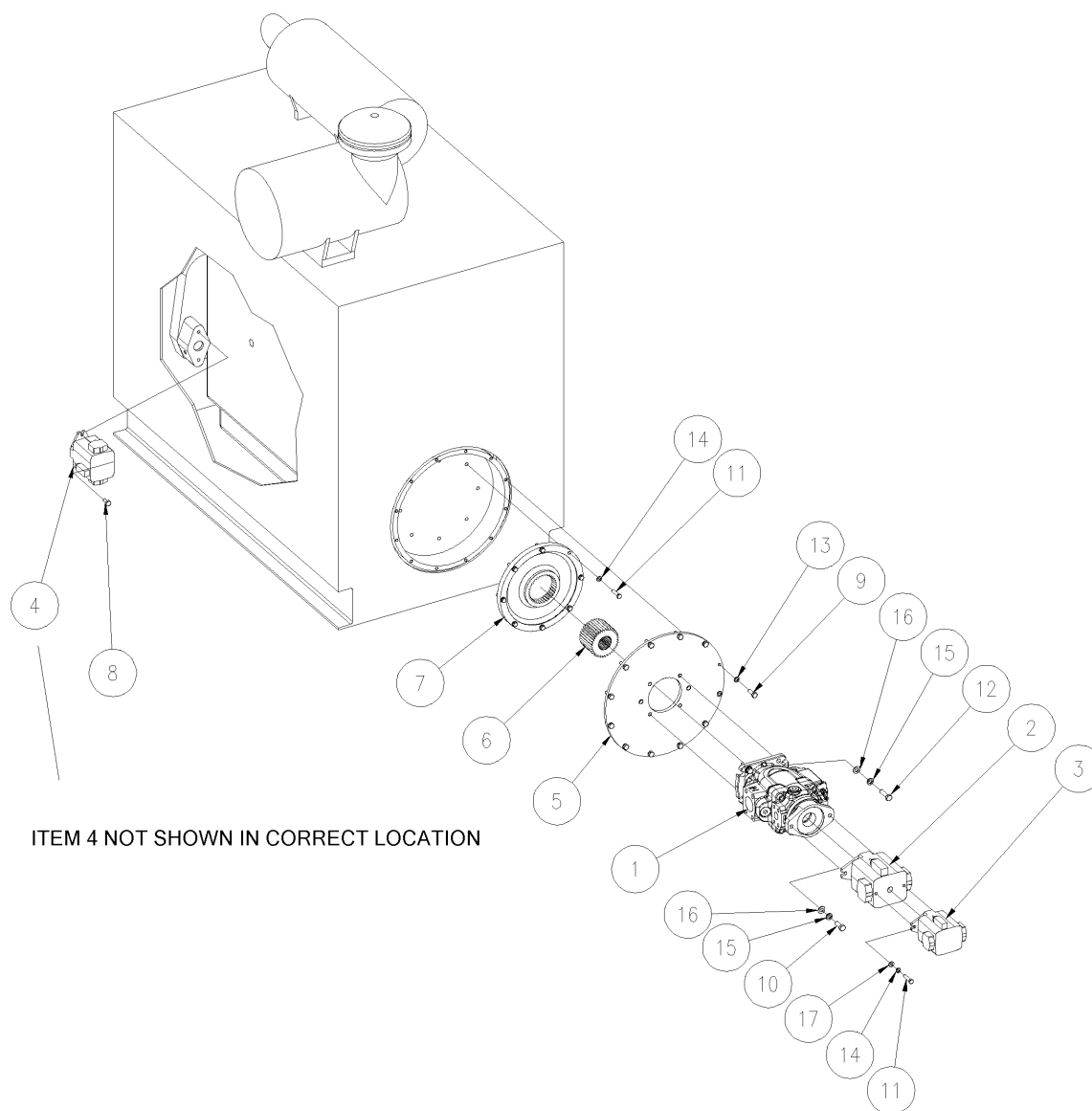


1	3548257	1	CABLE, RED 4 AWG x 94 Lg
2	3548258	1	CABLE, BLACK 4 AWG x 124 Lg
3	3548260	1	CABLE, BLACK 1/0 AWG x 125 Lg
4	3548270	1	CABLE, RED 1/0 AWG x 126 Lg
5	3548261	1	CABLE, BLACK 12 AWG x 80 Lg
6	3548259	1	CABLE, RED 1/0 AWG 82 Lg
7	3548262	4	LUG, RING TERMINAL 1/0 AWG
8	306382	4	LUG, RING TERMINAL 3/8 STUD
9	3548263	1	LUG, RING TERMINAL 12 AWG
10	306385	12	ADHESIVE LINED SHRINKABLE TUBING
11	3548264	1	TERMINAL, BATTERY CABLE (POS)
12	3548265	1	TERMINAL, BATTERY CABLE (NEG)
14	3548266	2	GROMMET, RUBBER
15	3548267	1	GROMMET, RUBBER



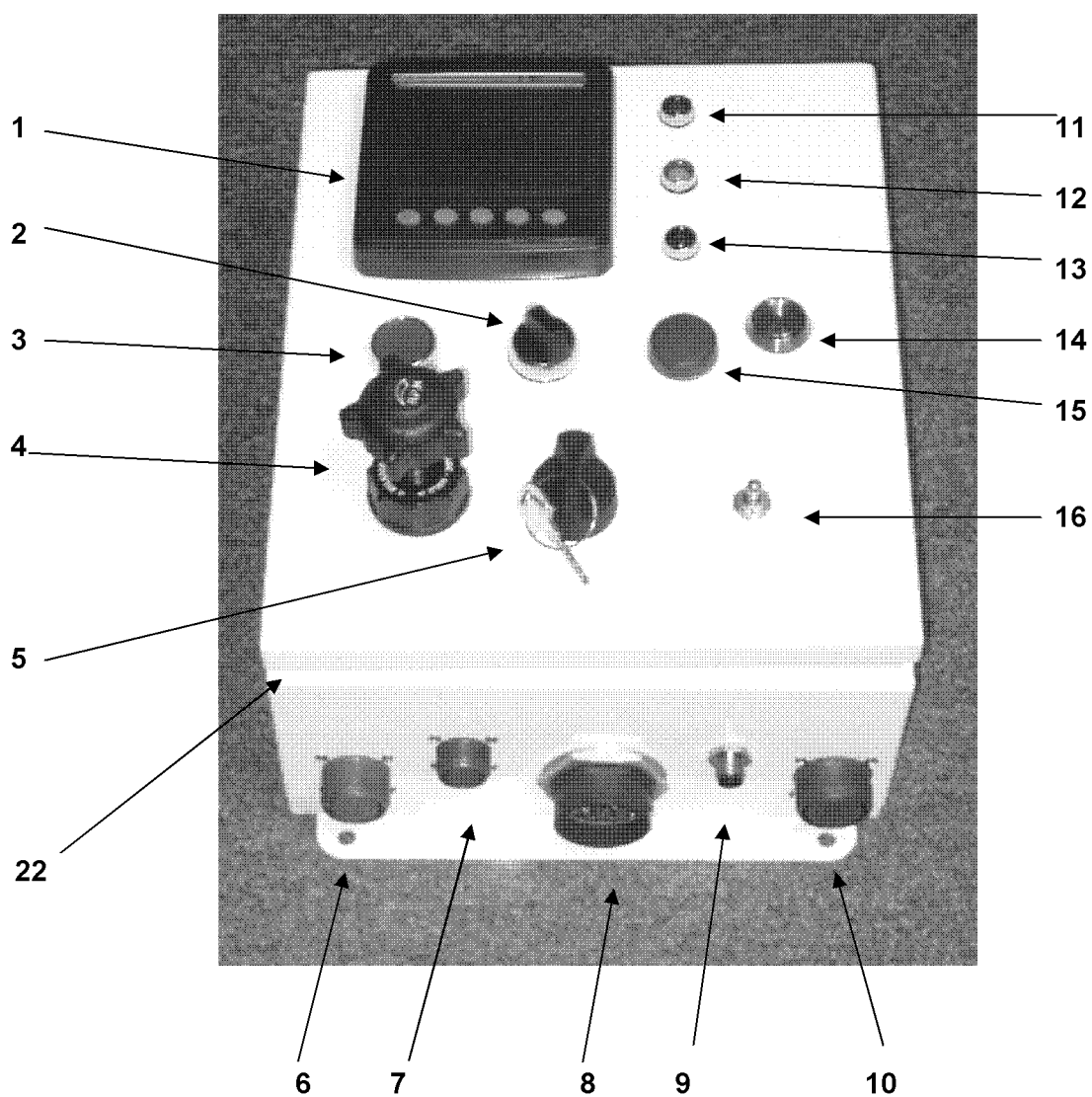
3548035 MASTER DISCONNECT PANEL

1	3548033	1	PANEL, DISCONNECT
10	3548039	1	LEVER, LOCKOUT
11	3548037	1	DISCONNECT SWITCH
12	3548036	1	CIRCUIT BREAKER, 20 AMP THERMAL
15	3548048	REF	ENCLOSURE, MASTER DISCONNECT

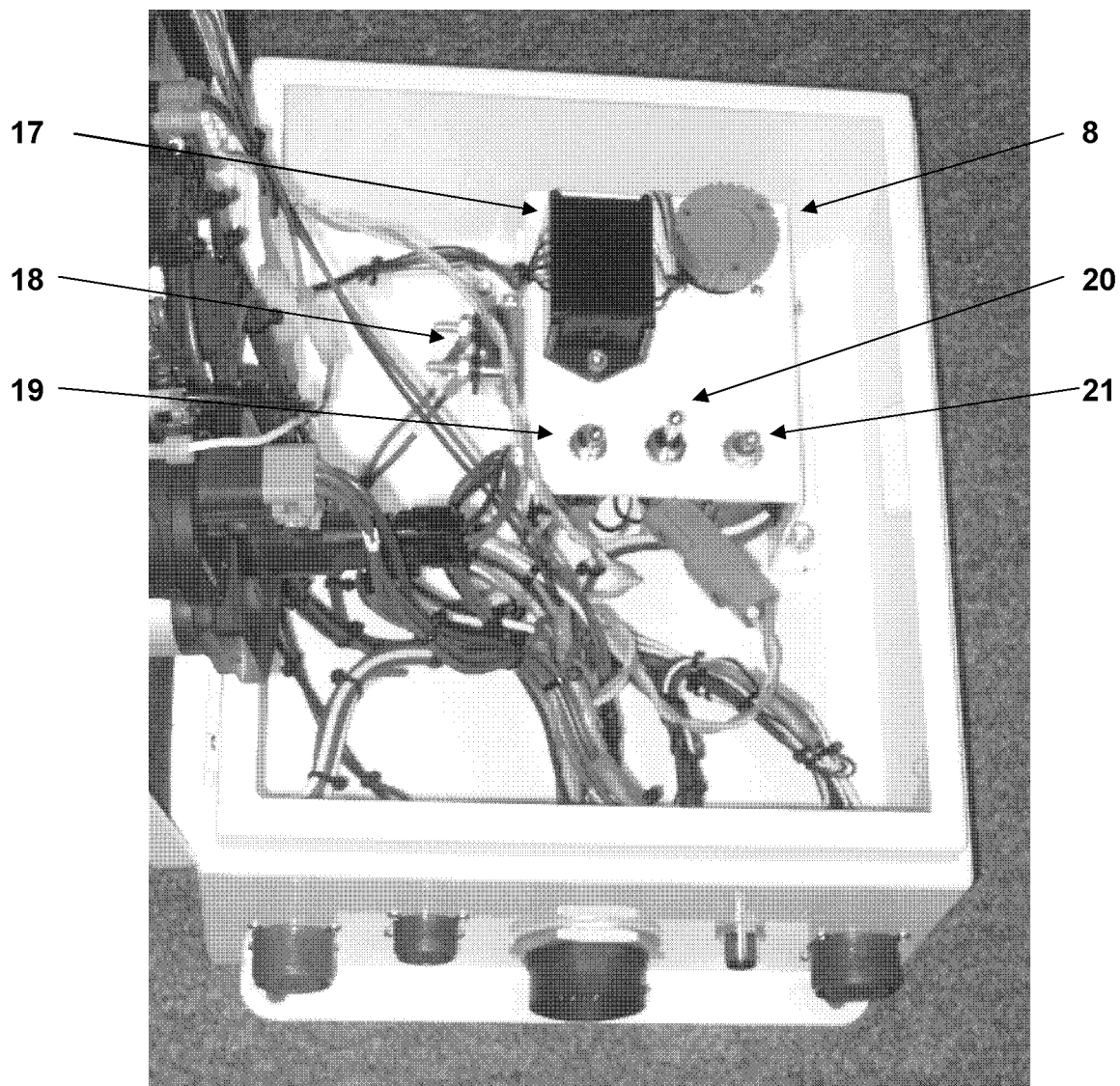


1	00	3548309	1	PUMP, P3 PRIMARY
2		3544140	1	PUMP, HYD PISTON 33 CC (SEAL KIT # 3547283)
3		100184	1	PUMP, HYD PISTON 19CC (SEAL KIT # 3540345)
4		3549178	1	PUMP, GEAR 23CC
5		3544383	1	PLATE, PUMP MOUNTING
6		3544526	1	HUB, SAE 'C' SPLINE
7		100293	1	COUPLING, FLYWHEEL
8		68884	2	C/SCR, HH M10x1.5x20 GR10.9
9		68886	11	C/SCR, HH M10 x 1.5 x 30
10		44530	2	C/SCR, HH 1/2 UNC x 1 1/4 LG
11		44536	10	C/SCR, HH 3/8-16UNC x 1-1/2
12		44640	4	C/SCR, HH 1/2-13UNC x 1-3/4
13		93128	12	L/WASHER, SPLIT SPRING M10
14		44520	10	L/WASHER, 3/8 SAE G8
15		44521	6	L/WASHER, SPLIT SPRING 1/2"
16		44621	6	WASHER, FLAT 1/2"
17		44859	2	WASHER, FLAT 3/8 SAE G8

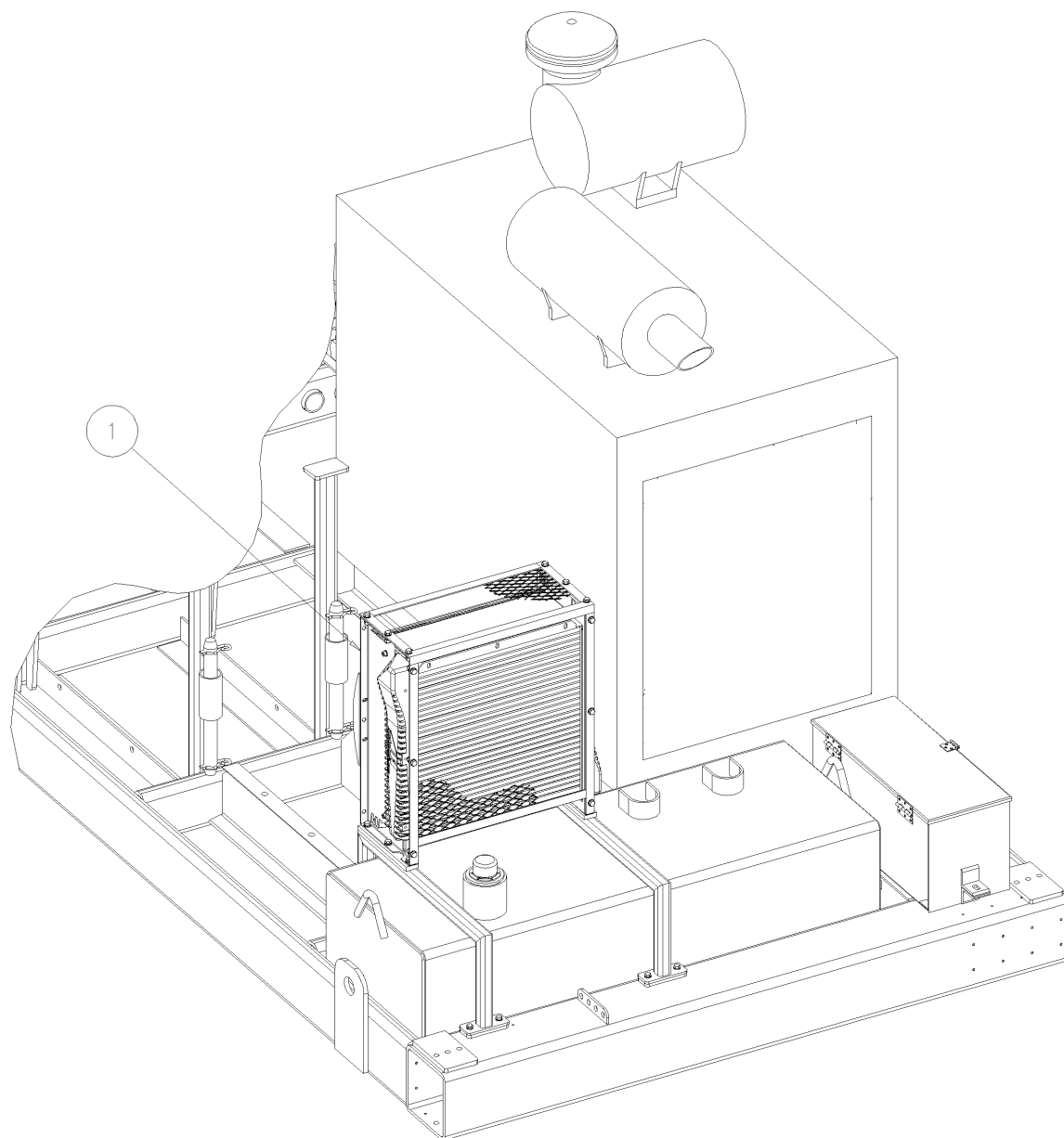
00) 5004039 PUMP COMPENSATOR



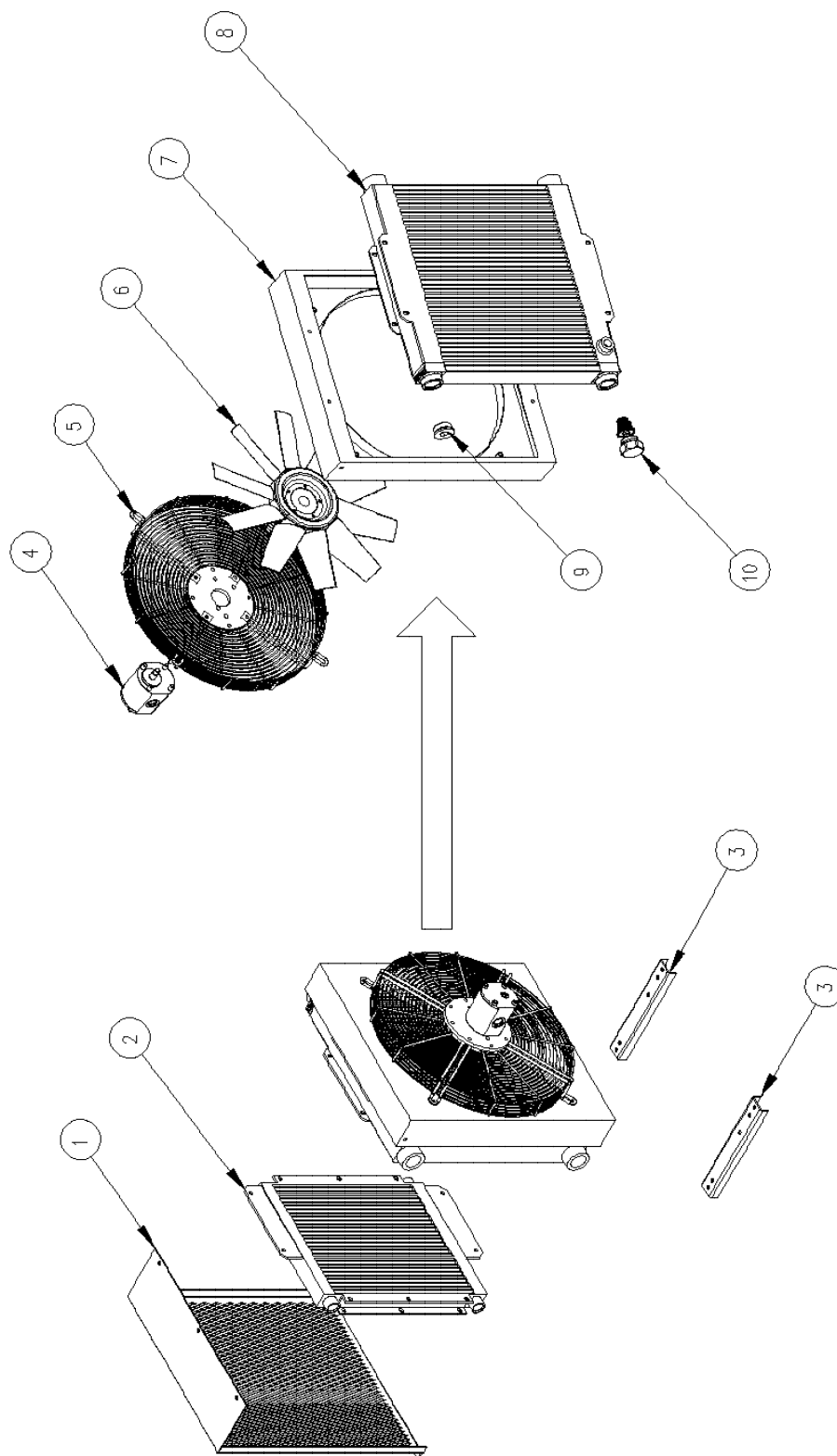
1	3549105	1	CANTRACK DISPLAY
2	3549480	1	SWITCH, WORK LIGHT
3	3549519	1	PUSH BUTTON, GREEN
4	3549547	1	THROTTLE
5	3549234	1	SWITCH, IGNITION
6	3549477	1	10 PIN CONNECTOR
7	3549478	1	4 PIN CONNECTOR
8	3549548	1	ENGINE HARNESS REWORK
9	3549481	1	CONNECTOR, PANEL 4 PIN TURCK
10	3549479	1	8 PIN CONNECTOR
11	3549103	1	INDICATOR LED, RED
12	3549118	1	INDICATOR LED, YELLOW
13	3549117	1	INDICATOR LED, BLUE
14	3549482	1	LOCK, PANEL
15	3549484	1	LIGHT, PILOT RED
16	3549485	1	SWITCH, SPST
17	3548486	1	BOX, LED DRIVER
18	3548487	1	BREAKER, 6 AMP
19	3549488	1	SWITCH, SPST SPADE CONNECTOR
20	3549489	1	SWITCH, SPDT MOMENTARY
21	3549490	1	SWITCH, DPDT MOMENTARY
22	3549111	1	WELDMENT, ENGINE CONTROL



1	3549105	1	CANTRACK DISPLAY
2	3549480	1	SWITCH, WORK LIGHT
3	3549519	1	PUSH BUTTON, GREEN
4	3549547	1	THROTTLE
5	3549234	1	SWITCH, IGNITION
6	3549477	1	10 PIN CONNECTOR
7	3549478	1	4 PIN CONNECTOR
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11	3549103	1	INDICATOR LED, RED
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14	3549482	1	LOCK, PANEL
15	3549484	1	LIGHT, PILOT RED
16	3549485	1	SWITCH, SPST
17	3548486	1	BOX, LED DRIVER
18	3548487	1	BREAKER, 6 AMP
19	3549488	1	SWITCH, SPST SPADE CONNECTOR
20	3549489	1	SWITCH, SPDT MOMENTARY
21	3549490	1	SWITCH, DPDT MOMENTARY
22	3549111	1	WELDMENT, ENGINE CONTROL



1	3548512	1	COOLER, HYD OIL DUAL CORE (Page 152)
2	44593	4	C/SCR, HH 3/8-16UNC x 1 1/4
3	44520	4	L/WASHER, 3/8 SAE G8
4	44859	4	WASHER, FLAT 3/8 SAE G8



3548512 COOLER, HYD OIL DUAL CORE

2	00	5002389	1	COOLER, AUXILLARY
4		5002391	1	MOTOR, HYD
6		5002390	1	FAN
8			1	COOLER, CORE

00) HEAD COOLER INSTALLED ON THE FRONT OF UNIT FOR TIER 3 ENGINES.


BOART LONGYEAR

SPECIFICATION

3547819B1.DOC

TITLE: MAIN HYDRAULICS PIPING GRP, LF90D

PREPARED: AF

AUTHORIZED:

APPROVED:

USED ON: 3547421

REV:

REV: B

REV: A

ECN:

ECN: 31788

ECN: ISSUED

DATE:

DATE: 04/13/07

DATE: 08/09/06

HOSE END LEGEND

A - Female JIC Swivel

B - Female JIC Swivel 90°

C - Female JIC Swivel 90° (Extra Long)

D - Male NPT

E - Male JIC

F - 90° Split Flange (Code 61)

G - 90° Split Flange (Code 62)

H - Female Swivel 45°

HOSE ASSEMBLIES

No	SIZE	CUT LENGTH	END	TYPE	QTY
1	#6	41.5	A-A	100R2AT	1
2	#6	15.5	A-A	100R2AT	1
3	#6	48.5	A-A	100R2AT	1
4	#6	24.5	A-A	100R2AT	1
5	#6	41.5	A-A	100R2AT	1
6	#6	15.5	A-A	100R2AT	1
7	#6	55.5	A-A	100R2AT	1
8	#6	79.5	A-A	100R2AT	1
9	#6	56.5	A-B	100R2AT	1
10	#6	55.5	A-B	100R2AT	1
11	#6	57.5	A-B	100R2AT	1
12	#6	55.5	A-B	100R2AT	1
13	#6	59.5	A-B	100R2AT	1
14	#6	55.5	A-B	100R2AT	1
15	#6	100.5	A-B	100R2AT	1
16	#6	100.5	A-B	100R2AT	1
17	#6	170.5	A-A	100R2AT	1
18	#6	170.5	A-A	100R2AT	1
19	#6	176.5	A-A	100R2AT	1
20	#6	176.5	A-A	100R2AT	1
21	#6	121.5	A-A	100R2AT	1
22	#6	123.5	A-A	100R2AT	1
23	#6	131.5	A-C	100R2AT	1
24	#6	131.5	A-B	100R2AT	1
25	#6	84.5	A-A	100R2AT	1
26	#6	84.5	A-A	100R2AT	1
27	#6	87.5	A-A	100R2AT	1

3547819B1

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1	3547833	REF	HYDRAULIC SCHEMATIC LF90D (Page 194)
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BOART LONGYEAR			SPECIFICATION		
3547819B1					
28	#6	87.5	A-A	100R2AT	1
29	#8	19	A-A	100R2AT	2
31	#6	7.25	A-B	100R2AT	1
32	#6	102.5	B-B	100R2AT	1
33	#6	114.5	A-A	100R2AT	1
34	#6	114.5	A-A	100R2AT	1
36	#6	18.5	A-A	100R2AT	1
37	#6	18.5	A-A	100R2AT	1
38	#6	55	A-H	100R2AT	1
39	#6	55.5	A-A	100R2AT	1
40	#6	194.5	A-A	100R2AT	2
41	#8	15	A-B	100R2AT	1
42	#6	42	A-A	100R2AT	1
44	#6	85	A-A	100R2AT	1
45	#6	22	A-C	100R2AT	1
46	#8	38	A-A	100R2AT	1
47	#8	18	A-B	100R2AT	1
48	#8	162	A-A	100R2AT	1
49	#16	69	A-H	100R2AT	1
50	#10	103	C(#10)-A(#12)	100R2AT	1
51	#8	150	A-A	100R2AT	2
52	#12	13	A-C	100R2AT	1
53	#8	72.5	A-C	100R2AT	1
54	#4	130	A-A	100R2AT	1
56	#12	119.25	A-A	100R2AT	1
57	#12	63.5	A-B	100R2AT	1
58	#8		A-A	100R2AT	2
59	#8	174	A-A	100R2AT	2
60	#8	149	A-A	100R2AT	2
62	#12	98.5	A-B	100R2AT	1
63	#12	19.75	A-C	100R2AT	1
64	#6	133	A-B	100R2AT	1
65	#6	49	A-B	100R2AT	1
66	#6	150.5	A-A	100R2AT	2
67	#8	259	A-A	100R2AT	1
68	#8	170	A-A	100R2AT	1
70	#12	83.25	A-G	100R2AT	1
71	#16	65.5	A-G	100R13	1
72	#6	154	A-A	100R2AT	1
73	#6	129.5	A-A	100R2AT	1
74	#6	149	A-A	100R2AT	1
76	#8	75.5	A-B	100R2AT	1
77	#8	129	A-A	100R2AT	1
78	#8	129	A-A	100R2AT	1

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1	3547833	REF	HYDRAULIC SCHEMATIC LF90D (Page 194)
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 BOART LONGYEAR			SPECIFICATION		
3547819B1					
79	#8	129	A-A	100R2AT	1
80	#8	129	A-A	100R2AT	1
81	#8	129	A-A	100R2AT	1
82	#6	129.5	A-A	100R2AT	1
83	#6	129.5	A-A	100R2AT	1
84	#6	129.5	A-A	100R2AT	1
85	#16	127.5	A-A	100R13	1
86	#16	127.5	A-A	100R13	1
87	#16	122.5	A-A	100R13	1
88	#16	122.5	A-A	100R13	1
89	#16	166.5	A-B	100R13	1
90	#16	166.5	A-B	100R13	1
91	#6	190.5	A-A	100R2AT	1
92	#8	157.5	A-H	100R2AT	1
93	#8	181	A-A	100R2AT	1
94	#6	171.5	A-A	100R2AT	1
95	#6	179.5	A-A	100R2AT	1
96	#8	163	A-H	100R2AT	1
97	#8	197	A-A	100R2AT	1
98	#8	201	A-A	100R2AT	1
99	#12	71	A-A	100R13	1
100	#12	71	A-A	100R13	1
101	#16	43	A-G	100R13	1
102	#16	75.5	A-A	100R4	1
105	#20	38	A-G	100R4	1
106	#32	45	A-G	100R4	1
107	#12	36.5	A-B	100R4	1
108	#8	36	A-B	100R2AT	1
109	#20	39.5	A-C	100R4	1
110	#16	20.75	A-B	100R2AT	1
112	#6	80.5	A-A	100R2AT	1
115	#8	21	A-C	100R2AT	1
116	#8	18.5	A-C	100R2AT	1
117	#6	5.25	A-B	100R2AT	2
122	#12	85.5	A-G	100R2AT	1
123	#16	47.5	A-A	100R4	1
124	#6	119.5	A-A	100R2AT	1
125	#4	14	A-B	100R2AT	1
126	#6	13	A-B	100R2AT	1
127	#8	12	A-B	100R2AT	1
129	#4	55	A-A	100R2AT	1
130	#4	17.5	A-A	100R2AT	1
131	#4	57	A-A	100R2AT	1
132	#4	57	A-A	100R2AT	1

3547819B1

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1	3547833	REF	HYDRAULIC SCHEMATIC LF90D (Page 194)
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1	3547833	REF	HYDRAULIC SCHEMATIC LF90D (Page 194)
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 BOART LONGYEAR		SPECIFICATION	
		3547819B1	
188	33659	ADAP, HYD STR 32 JIC – 32 ORB	1
190	6400-16-08	ADAP, HYD STR 16 ORB – 8 JIC	1
191	44195	ADAP, HYD PLUG 6 ORB	2
192	49229	ADAP, HYD PLUG 8 JIC	2
195	3474-16-08	ADAP, HYD STR 16 ORB – 8 ORB	2
196	3474-24-16	ADAP, HYD STR 24 ORB – 16 ORB	2
197	33214	ADAP, HYD 90 4 JIC	1
199	39690	ADAP, HYD 90 8 JIC	1
200	43072	ADAP, HYD 90 12 JIC	1
202	39268	ADAP, HYD 45 6 JIC	1
203	33748	ADAP, HYD 45 8 JIC	5
204	33750	ADAP HYD 45 16 JIC	1
205	306220	ADAP, HYD STR 4 JIC – 4 NPT	3
206	33791	ADAP, HYD TEE 4 JIC	2
207	2603-08-08-06	ADAP, HYD TEE 6 JIC – 8 JIC – 8 JIC	1
208	33429	ADAP, HYD TEE 8 JIC	4
209	32978	ADAP, HYD TEE 16 JIC	1
211	37015	ADAP, HYD 90 4 JIC – 4 ORB	1
212	40237	ADAP, HYD 90 4 JIC – 6 ORB	2
214	44302	ADAP, HYD 90 6 JIC – 4 ORB	5
215	36478	ADAP, HYD 90 6 JIC – 6 ORB	4
216	32556	ADAP, HYD 90 8 JIC – 6 ORB	3
217	36457	ADAP, HYD 90 8 JIC – 8 ORB	3
218	36452	ADAP, HYD 90 LONG 8 JIC – 8 ORB	1
219	40082	ADAP, HYD 90 8 JIC – 10 ORB	2
220	39222	ADAP, HYD 90 8 JIC – 12 ORB	3
221	39222	ADAP, HYD 90 10 JIC – 10 ORB	1
222	35895	ADAP, HYD 90 12 JIC – 12 ORB	5
223	38849	ADAP, HYD 90 16 JIC – 12 ORB	1
224	36424	ADAP, HYD 90 16 JIC – 16 ORB	3
231	39198	ADAP, HYD 45 16 JIC – 12 ORB	1
233	33678	ADAP, HYD TEE 6 JIC -6 JIC – 6 ORB	2
235	39737	ADAP, HYD TEE 8 JIC – 8 JIC – 8 ORB	3
243	CFHS 20	SPLIT FLANGE 20	1
244	CFHS 32	SPLIT FLANGE 32	1
245	CFHS 16	SPLIT FLANGE 16	1
246	33749	ADAP, HYD 45 12 JIC	1
247	39021	ADAP, HYD TEE 6 JIC	1
248	33171	ADAP, HYD 90 6 JIC – 8 ORB	1
249	22523	ADAP, HYD 90 8 JIC – 8 NPT	2
250		CAP – 10 ORB	1

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1	3547833	REF	HYDRAULIC SCHEMATIC LF90D (Page 194)
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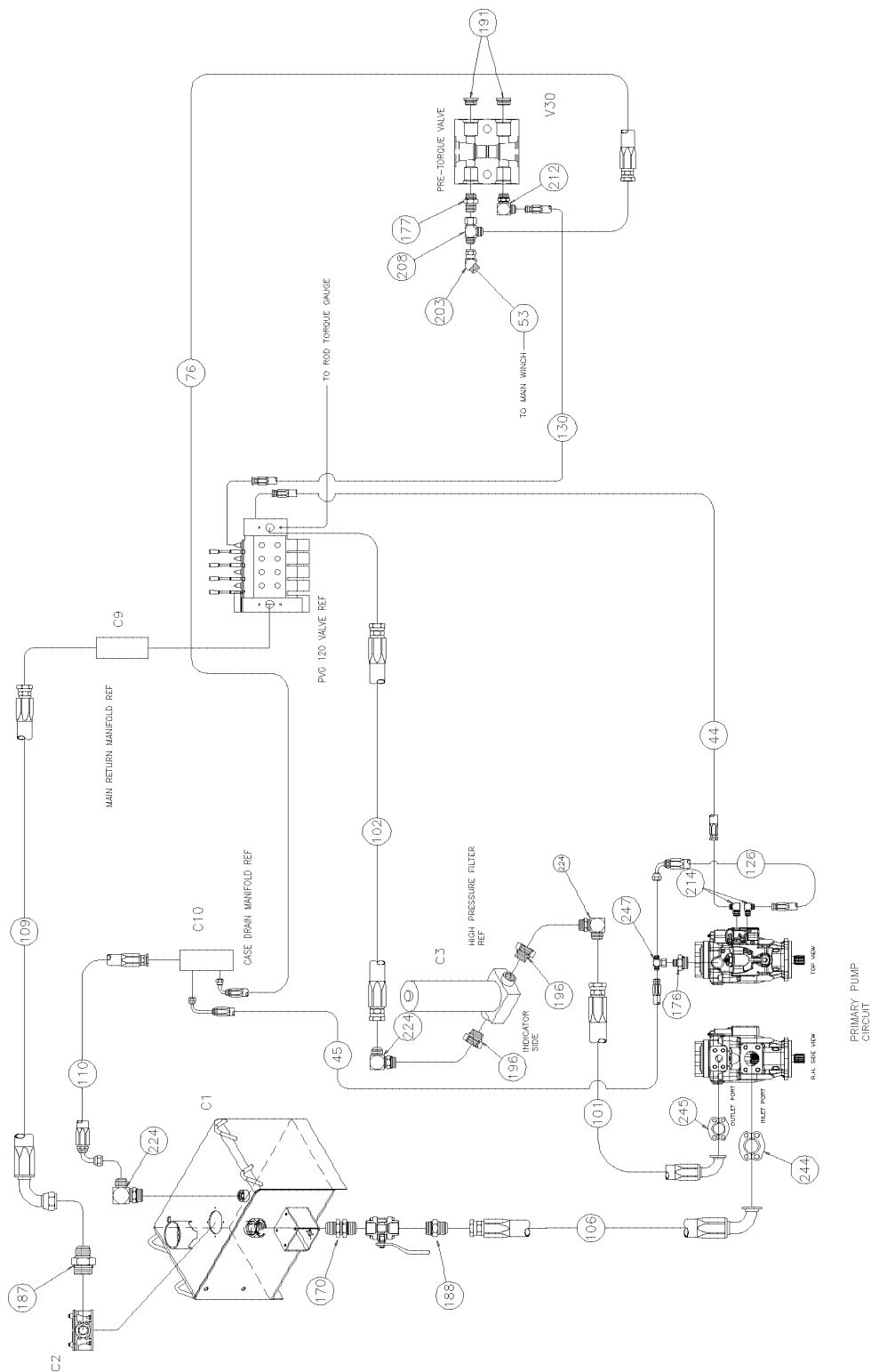
 BOART LONGYEAR		SPECIFICATION	
		3547819B1	
253	40255	ADAP, HYD LON 8 JIC – 8 ORB	1
254	34214	ADAP, HYD 12 ORB – 8 ORB-F	1
255	3548453	ADAP, HYD 90 8 ORB – 8 ORB-F	1
256	18891	ADAP, HYD 8 JIC – 8 NPT	2
257	3548231	IN-LINE FLOW METER	1

3547819B1

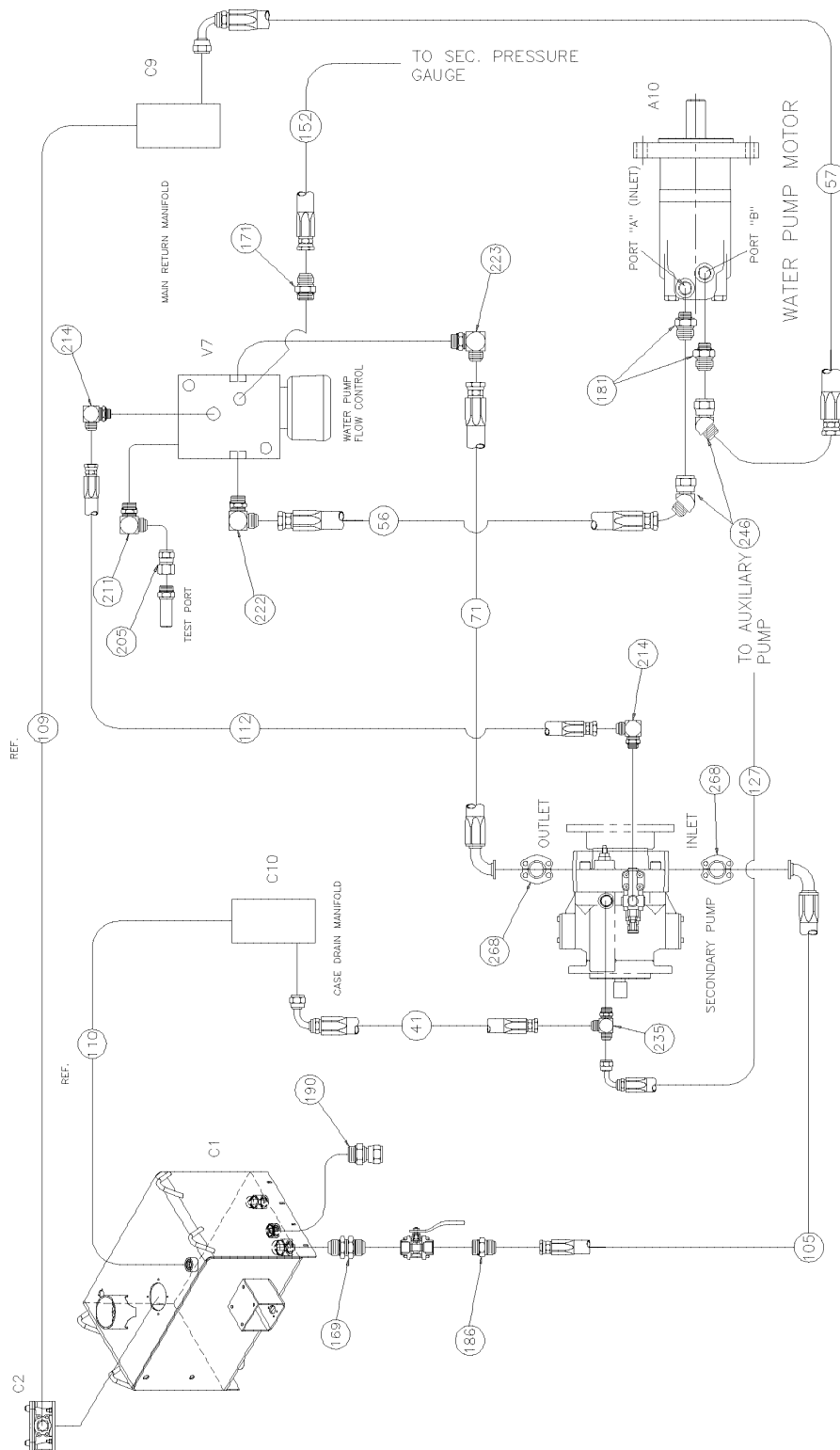
page 6 of 6

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1	3547833	REF	HYDRAULIC SCHEMATIC LF90D (Page 194)
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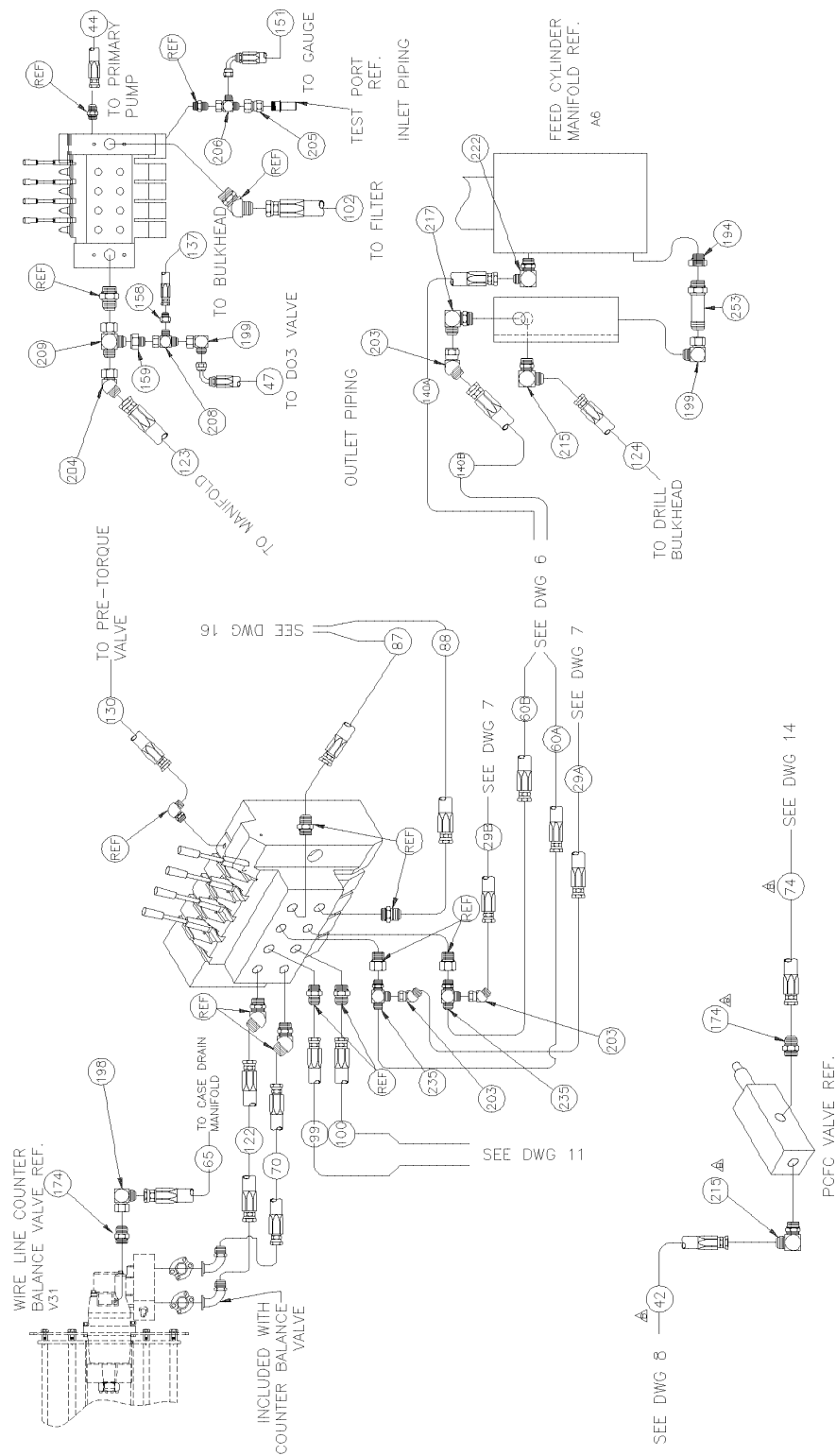


1	3547833	REF	HYDRAULIC SCHEMATIC LF90D (Page 194)
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1	3547833	REF	HYDRAULIC SCHEMATIC LF90D (Page 194)
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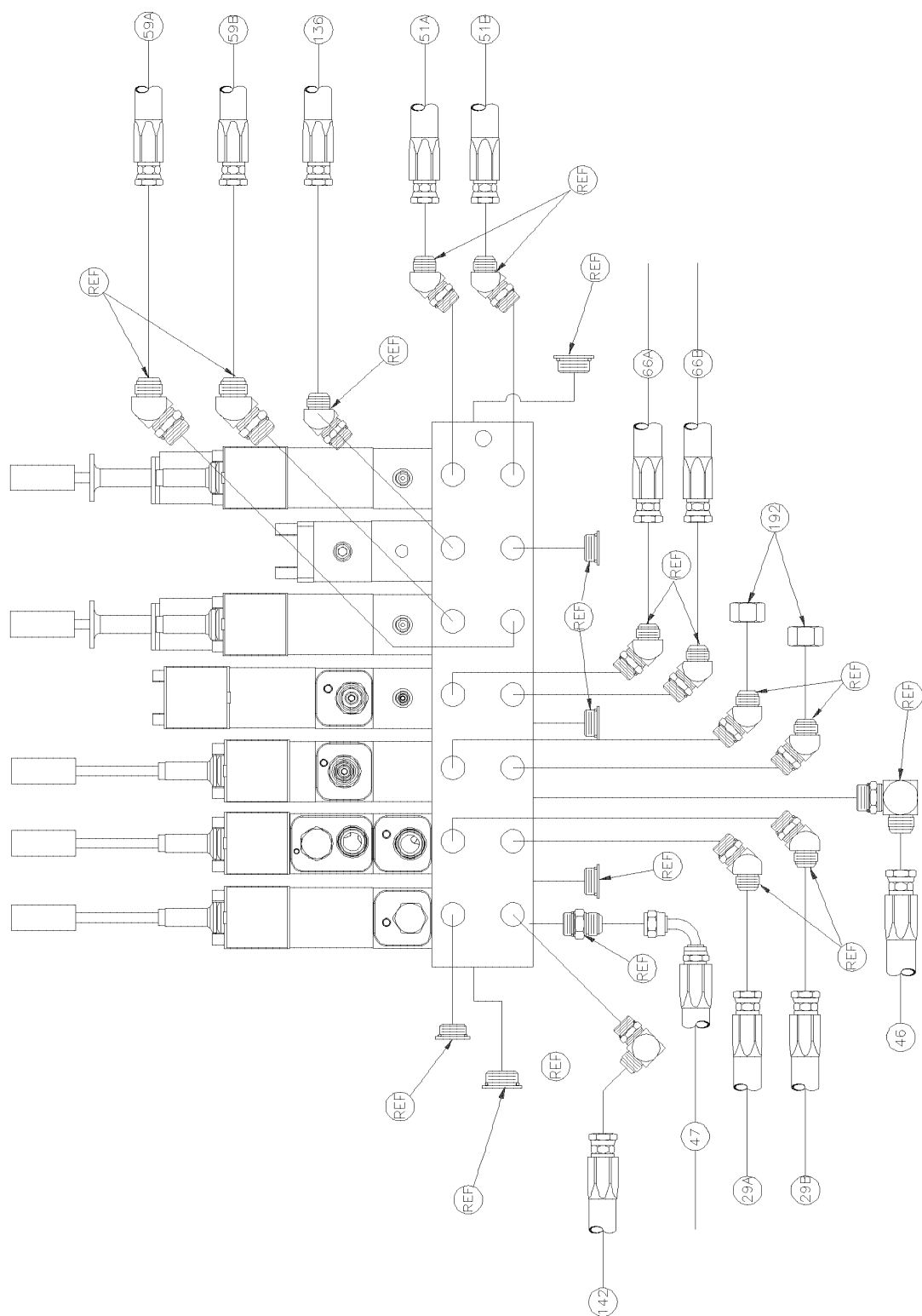
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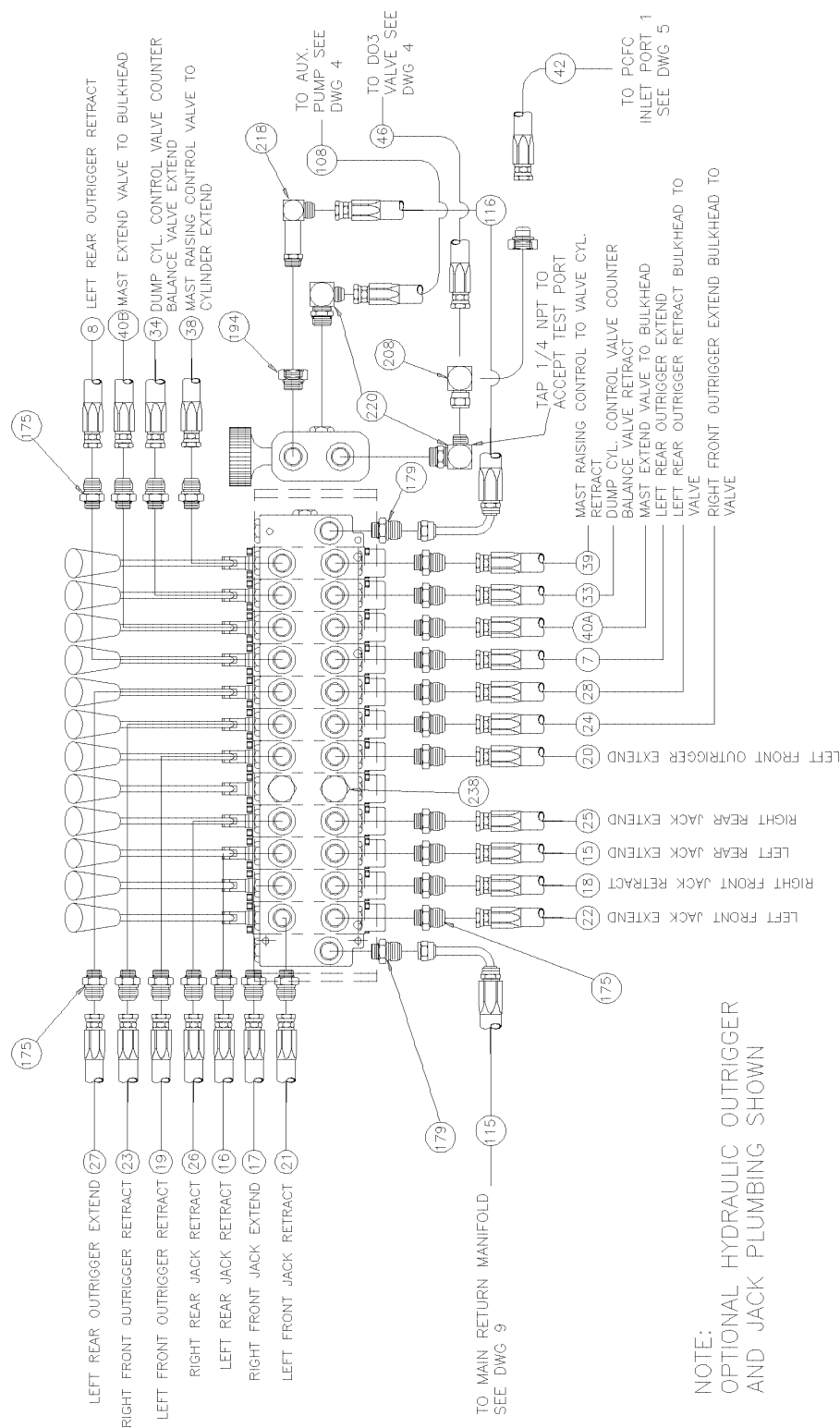
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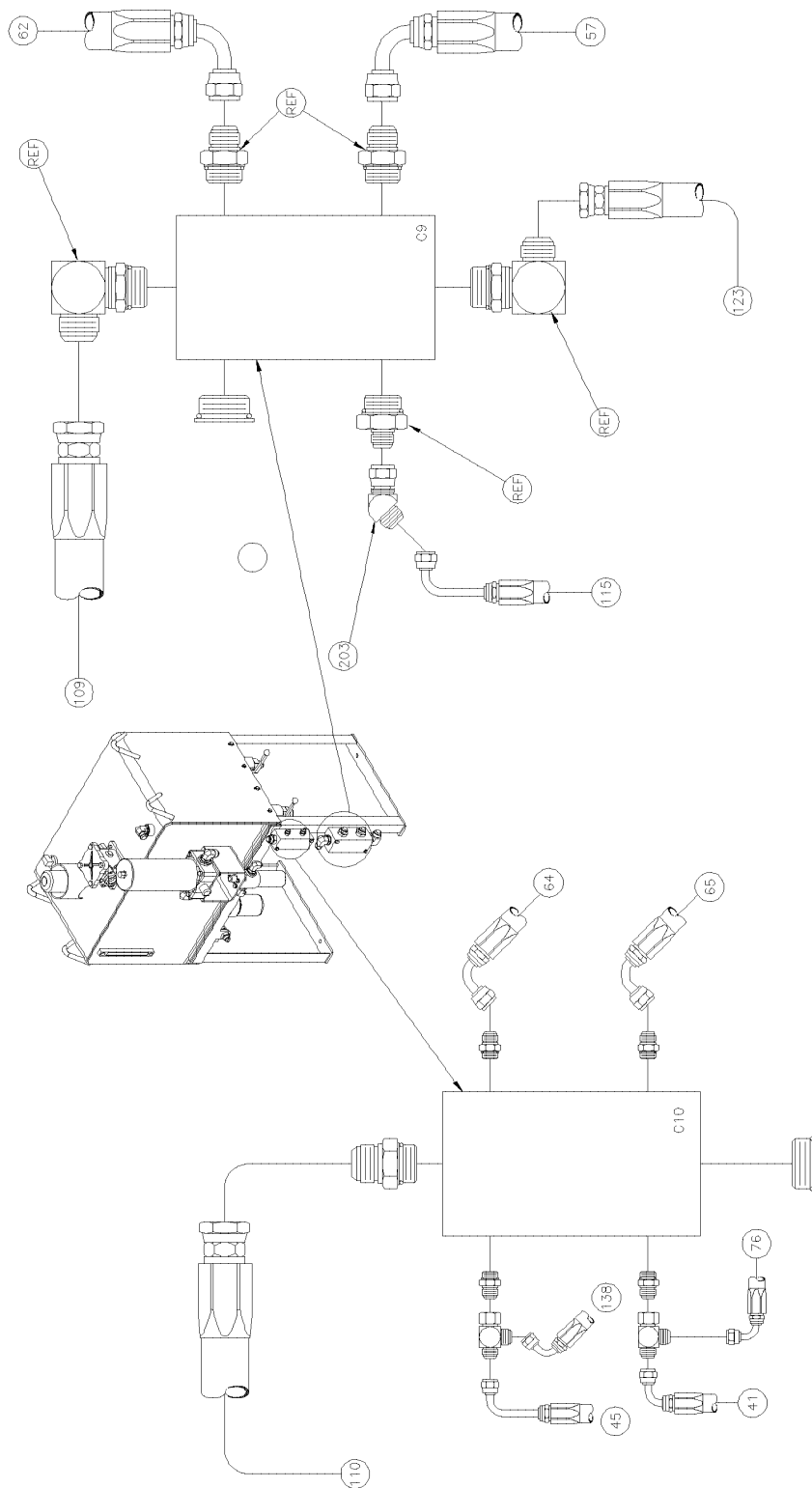
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1	3547833	REF	HYDRAULIC SCHEMATIC LF90D (Page 194)
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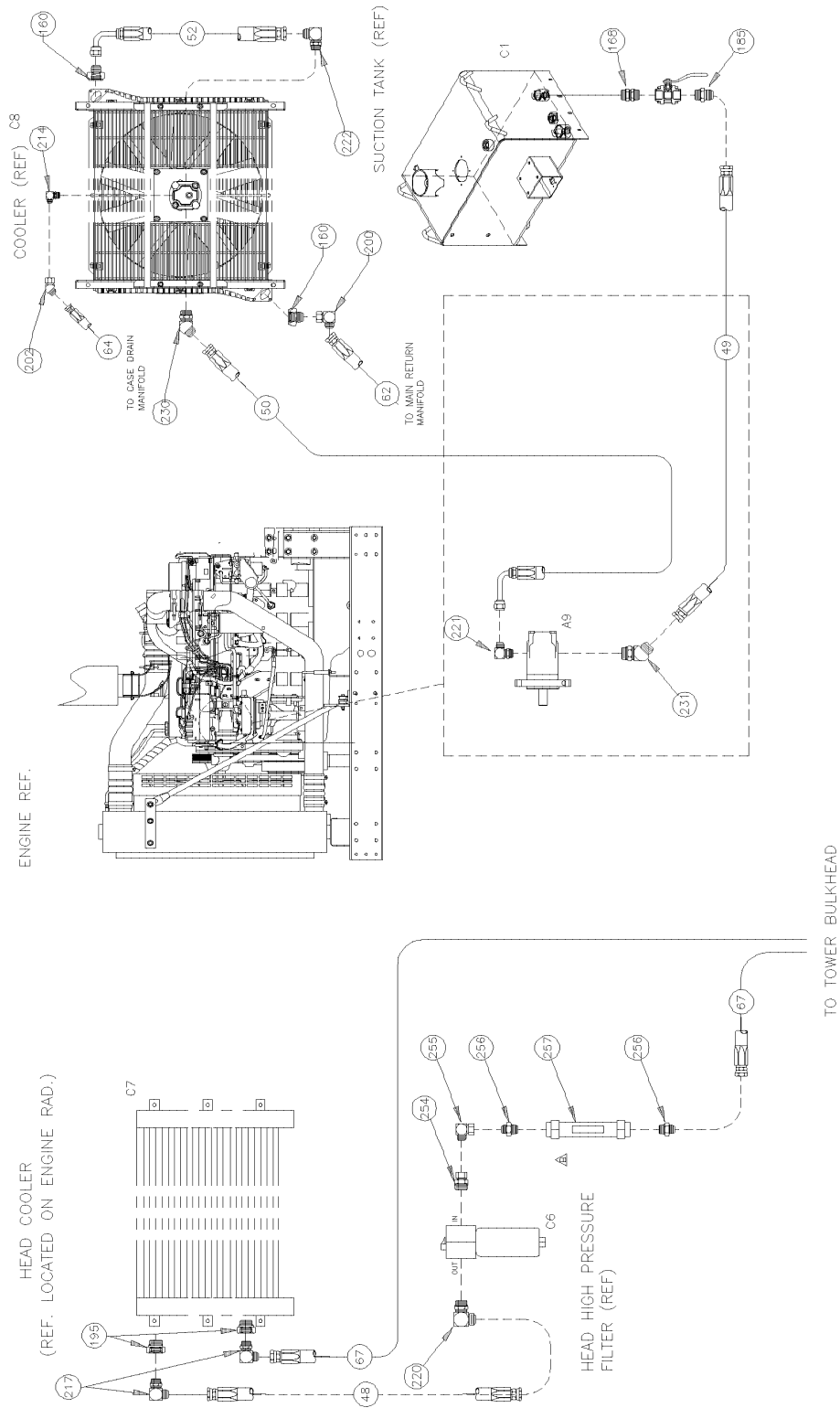
1	3547833	REF	HYDRAULIC SCHEMATIC LF90D (Page 194)
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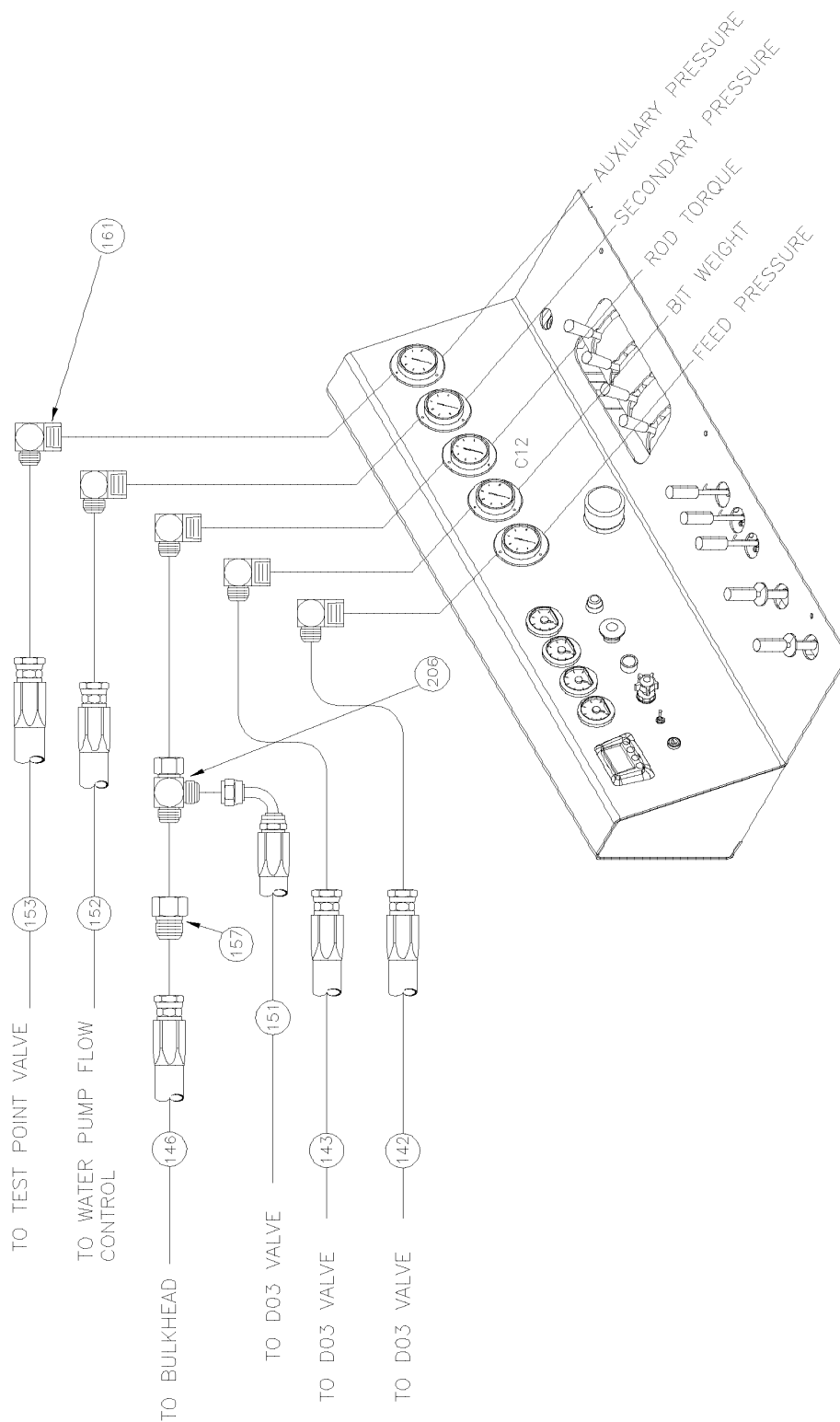
1	3547833	REF	HYDRAULIC SCHEMATIC LF90D (Page 194)
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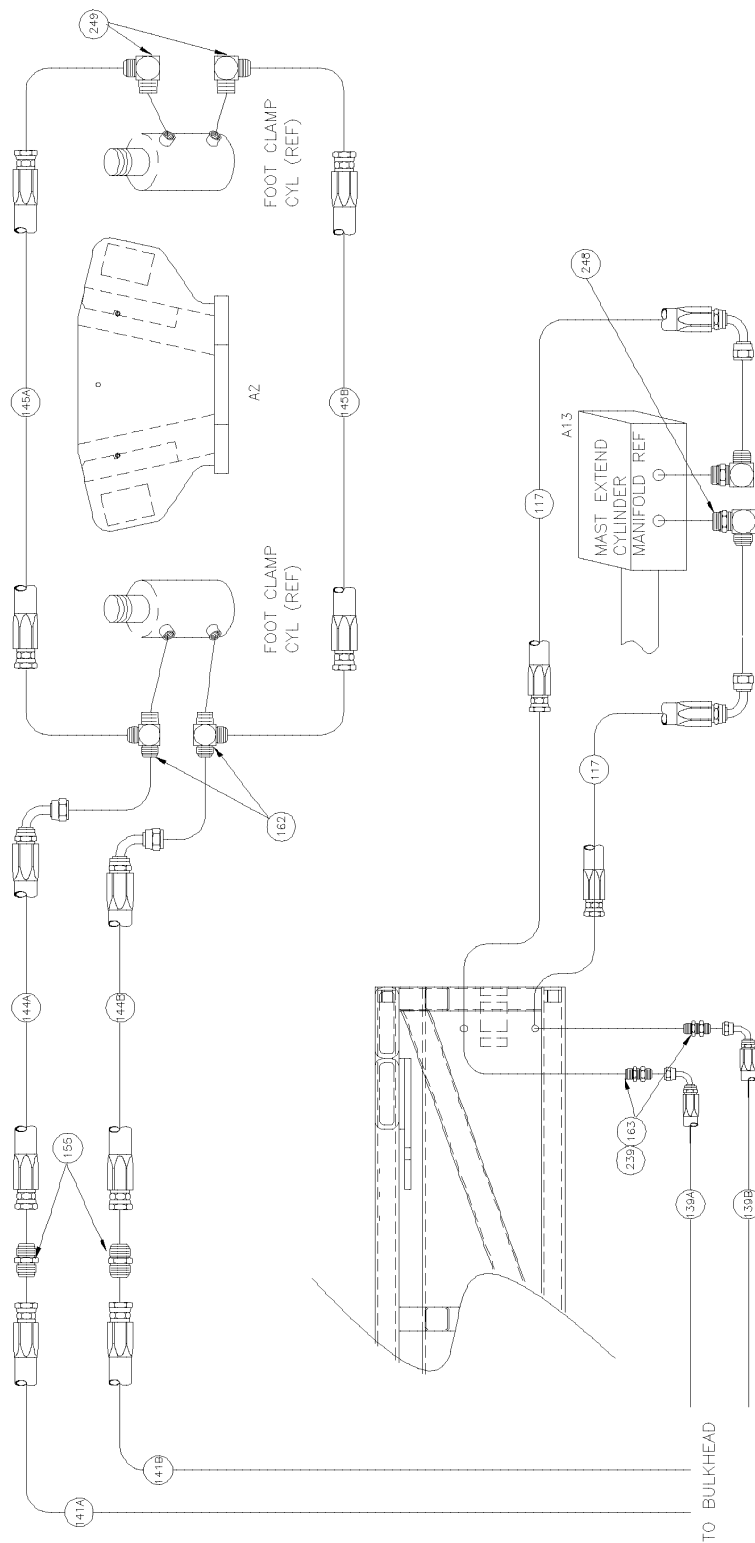
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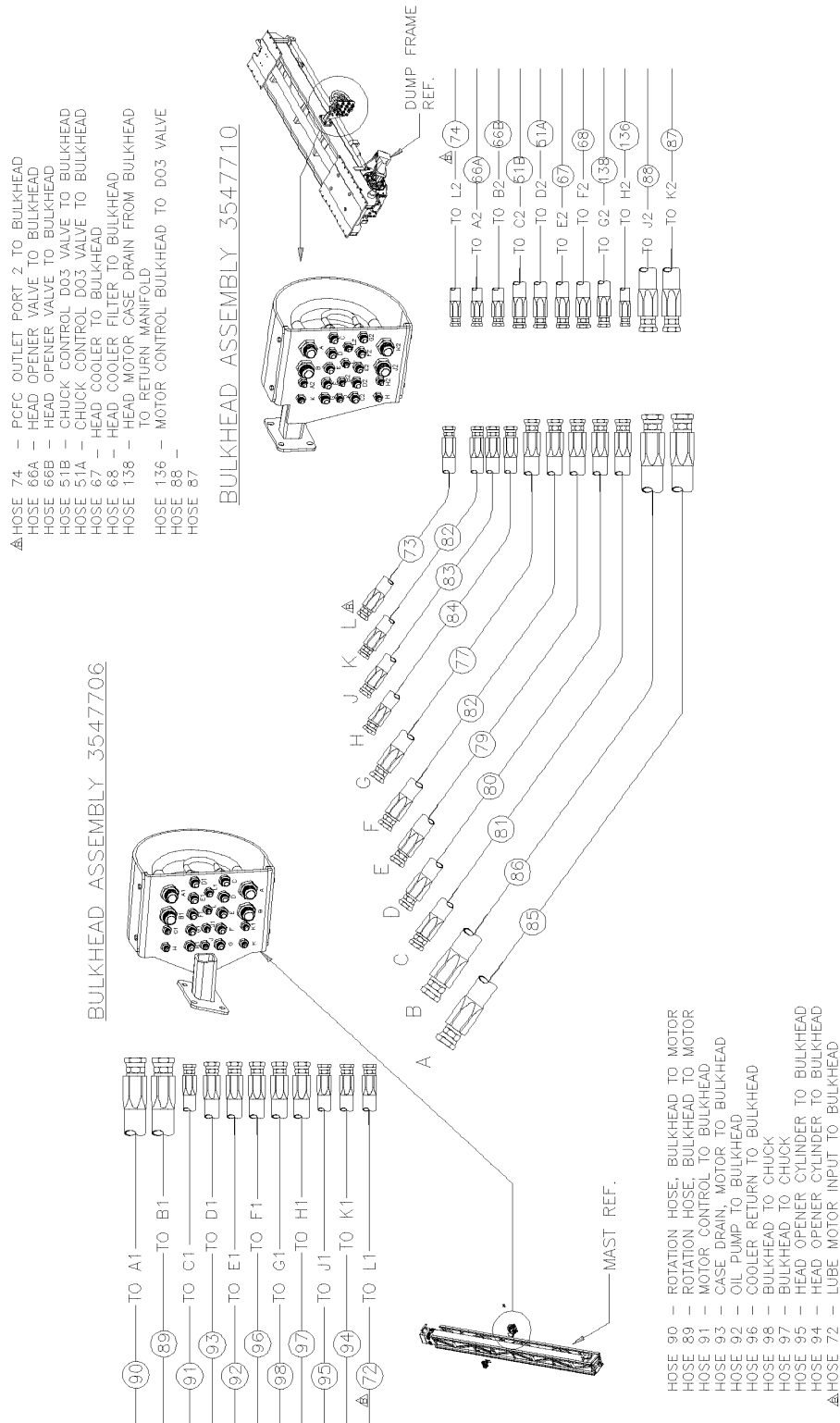
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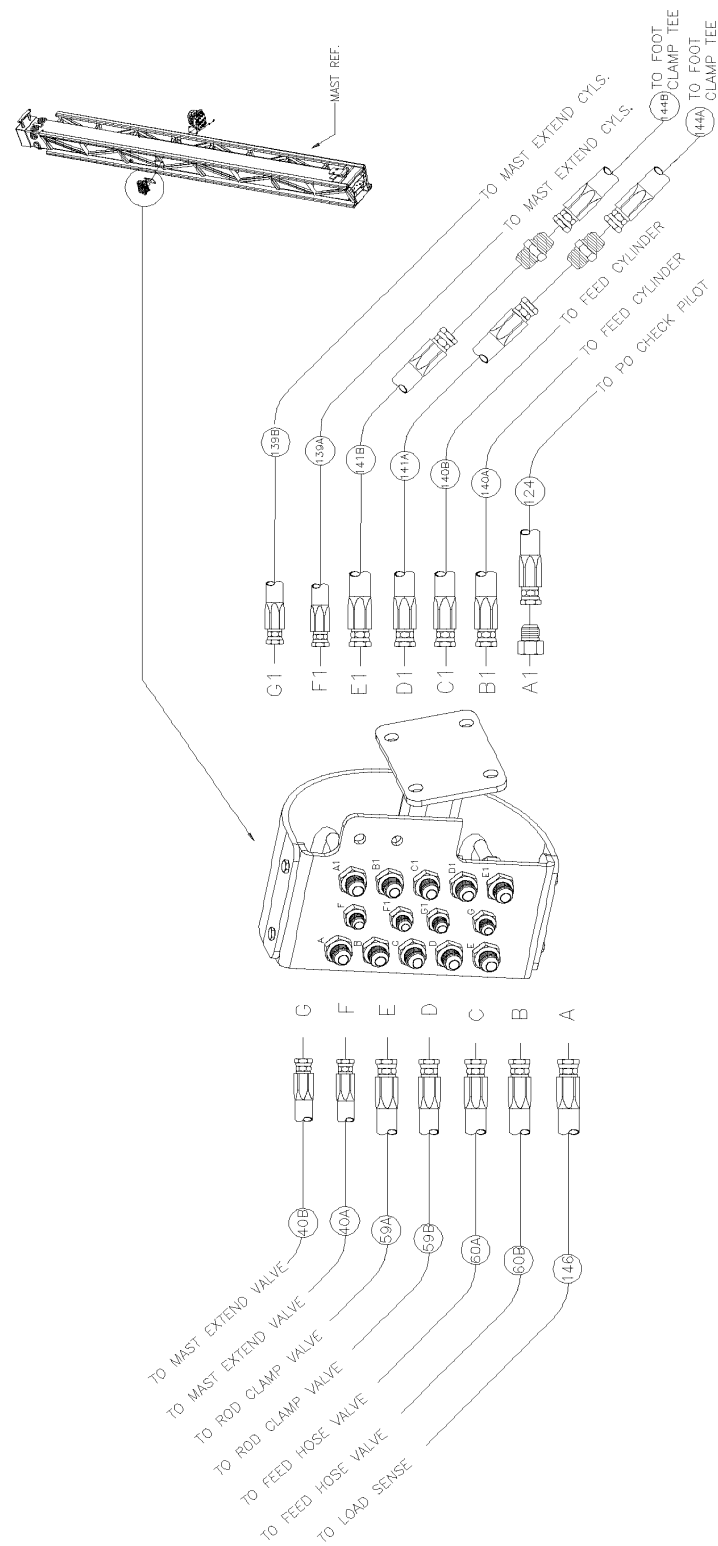
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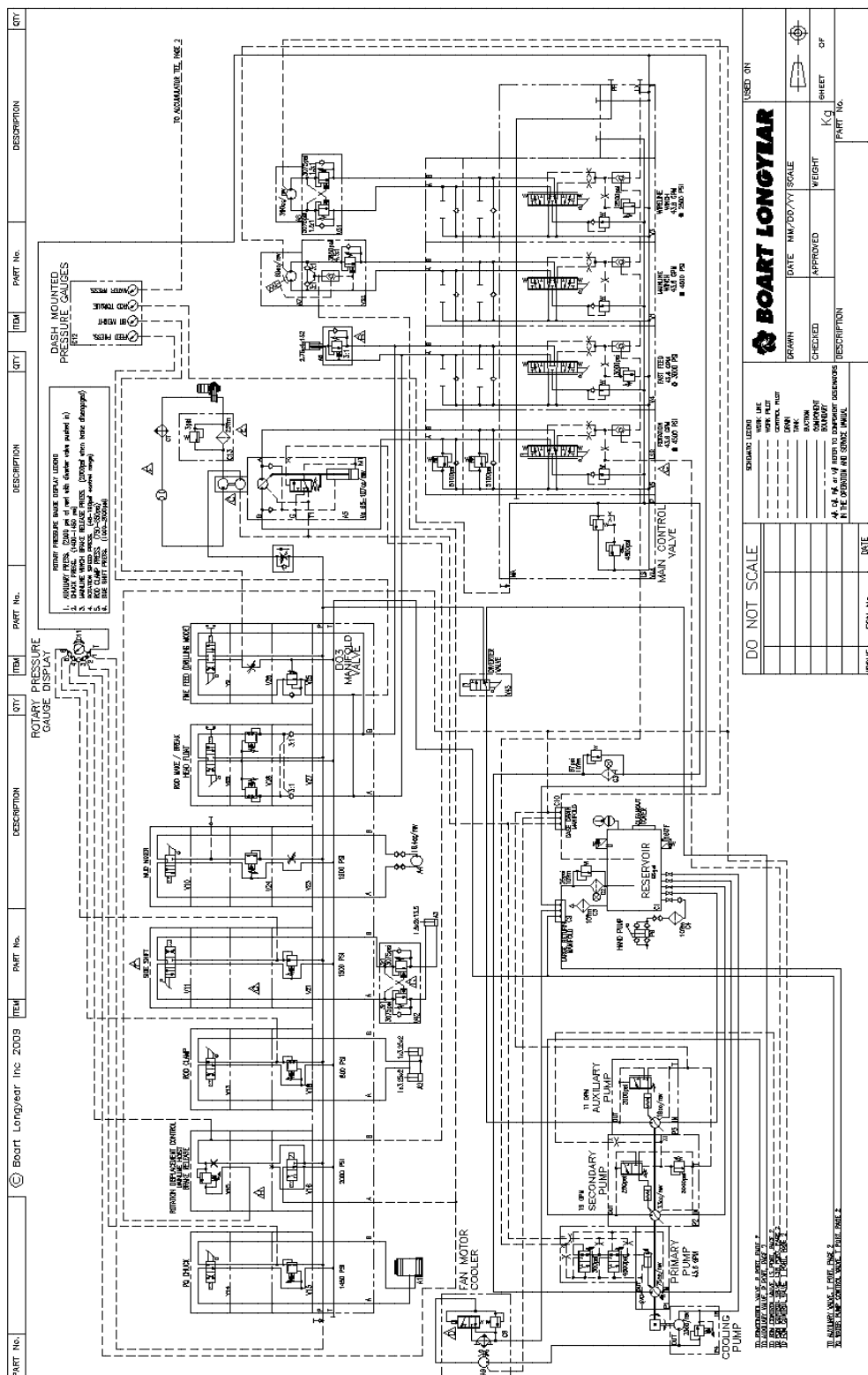
1	3547833	REF	HYDRAULIC SCHEMATIC LF90D (Page 194)
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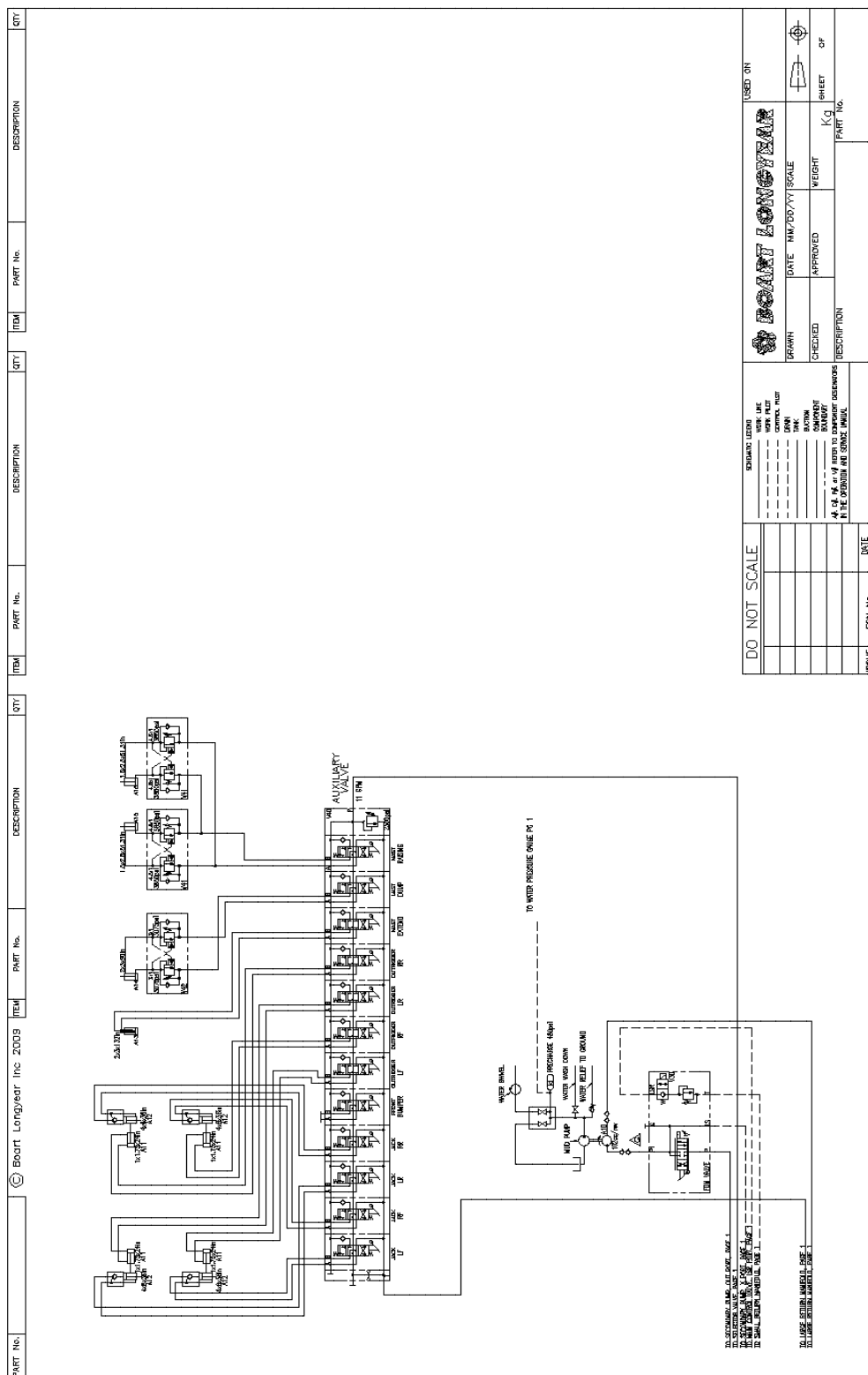


1	3547833	REF	HYDRAULIC SCHEMATIC LF90D (Page 194)
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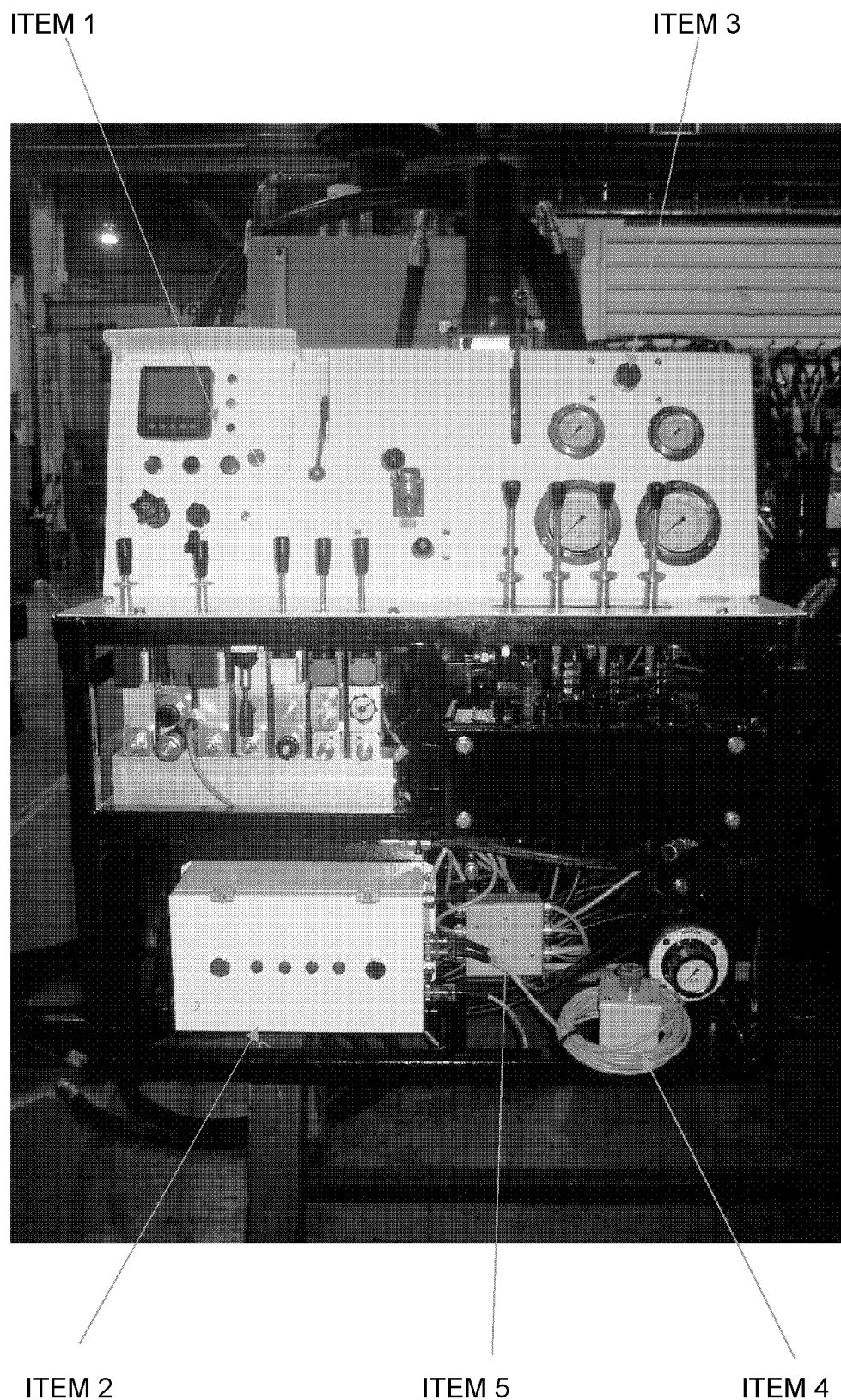
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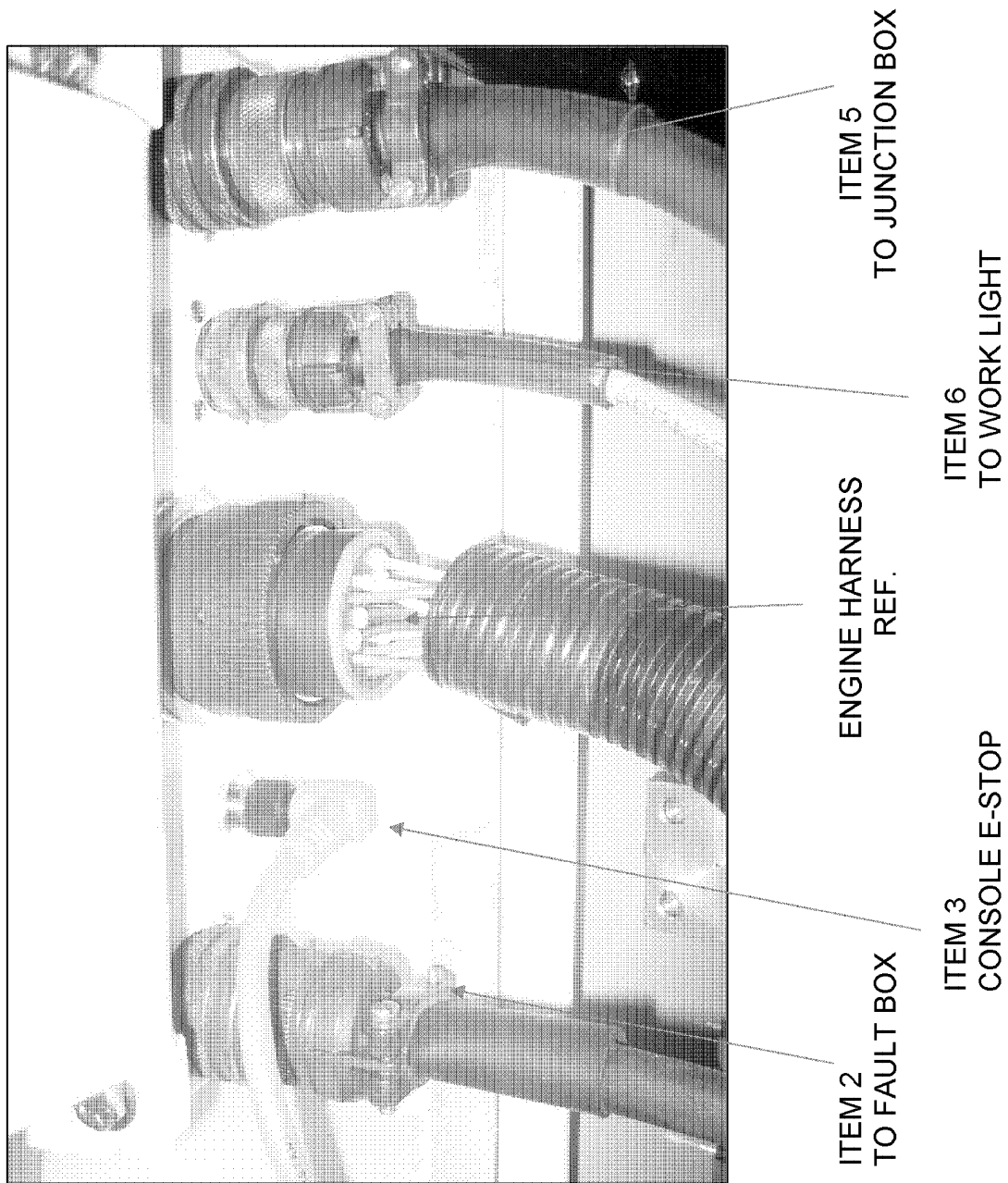


3	3549271	1	E-STOP ASSEMBLY CONSOLE (Page 108)
4	3549272	1	EMERGENCY STOP, MAGNETIC REMOTE (Page 210)
5	3549273	1	JUNCTION BOX ASSEMBLY (Page 212)
6	3549274	1	CABLE, WORK LIGHT
7	3549275	1	CABLE, OIL TEMP
8	3549276	1	CABLE, OIL LEVEL
9	3549277	1	CABLE, SAFETY WIRE
10	5004043	1	CABLE, MAGNETIC E STOP
11	5004044	1	CABLE, ECP TO FAULT BOX
12	5004045	1	CABLE, ECP TO JB # 2
13	5004046	1	CABLE, CONSOLE E STOP
14	5004047	1	CABLE, V 30 TORQUE CONTROL
15	5004048	1	CABLE, V9 FINE FEED LIMIT SWITCH
16	5004049	1	CABLE, V16 BRAKE RELEASE
17	5004050	1	CABLE, V29 ROD MAKE BREAK
18	5004051	1	CABLE, HORN
19	5004052	1	CABLE, OPERATOR CONTROL PANEL



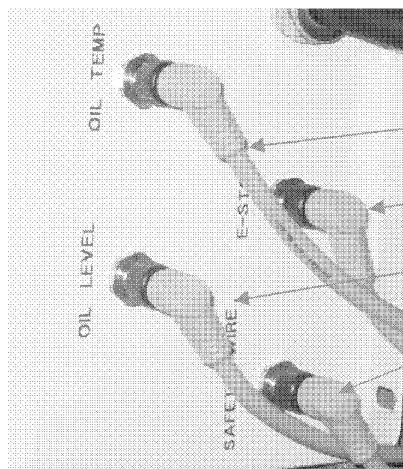
3	3549271	1	E-STOP ASSEMBLY CONSOLE (Page 108)
4	3549272	1	EMERGENCY STOP, MAGNETIC REMOTE (Page 210)
5	3549273	1	JUNCTION BOX ASSEMBLY (Page 212)
6	3549274	1	CABLE, WORK LIGHT
7	3549275	1	CABLE, OIL TEMP
8	3549276	1	CABLE, OIL LEVEL
9	3549277	1	CABLE, SAFETY WIRE
10	5004043	1	CABLE, MAGNETIC E STOP
11	5004044	1	CABLE, ECP TO FAULT BOX
12	5004045	1	CABLE, ECP TO JB # 2
13	5004046	1	CABLE, CONSOLE E STOP
14	5004047	1	CABLE, V 30 TORQUE CONTROL
15	5004048	1	CABLE, V9 FINE FEED LIMIT SWITCH
16	5004049	1	CABLE, V16 BRAKE RELEASE
17	5004050	1	CABLE, V29 ROD MAKE BREAK
18	5004051	1	CABLE, HORN
19	5004052	1	CABLE, OPERATOR CONTROL PANEL

VIEW – BOTTOM OF ENGINE CONTROL BOX



3	3549271	1	E-STOP ASSEMBLY CONSOLE (Page 108)
4	3549272	1	EMERGENCY STOP, MAGNETIC REMOTE (Page 210)
5	3549273	1	JUNCTION BOX ASSEMBLY (Page 212)
6	3549274	1	CABLE, WORK LIGHT
7	3549275	1	CABLE, OIL TEMP
8	3549276	1	CABLE, OIL LEVEL
9	3549277	1	CABLE, SAFETY WIRE
10	5004043	1	CABLE, MAGNETIC E STOP
11	5004044	1	CABLE, ECP TO FAULT BOX
12	5004045	1	CABLE, ECP TO JB # 2
13	5004046	1	CABLE, CONSOLE E STOP
14	5004047	1	CABLE, V 30 TORQUE CONTROL
15	5004048	1	CABLE, V9 FINE FEED LIMIT SWITCH
16	5004049	1	CABLE, V16 BRAKE RELEASE
17	5004050	1	CABLE, V29 ROD MAKE BREAK
18	5004051	1	CABLE, HORN
19	5004052	1	CABLE, OPERATOR CONTROL PANEL

VIEW - SIDE OF FAULT BOX (3549142)

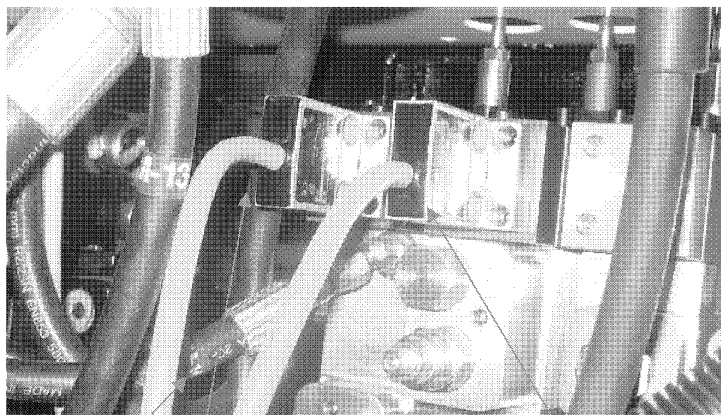


ITEM 7 – TO OIL TEMP GAUGE

ITEM 4 – TO MAGNETIC E-STOP

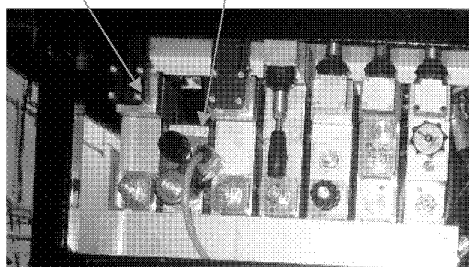
ITEM 8 – TO OIL LEVEL GAUGE

ITEM 9 – TO SAFETY PULL CORD

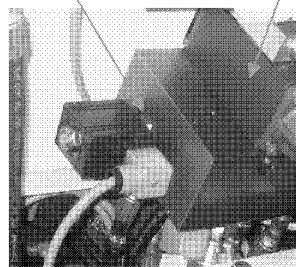


TO JUNCTION BOX
ITEM 5

DO3 MANIFOLD
REF.

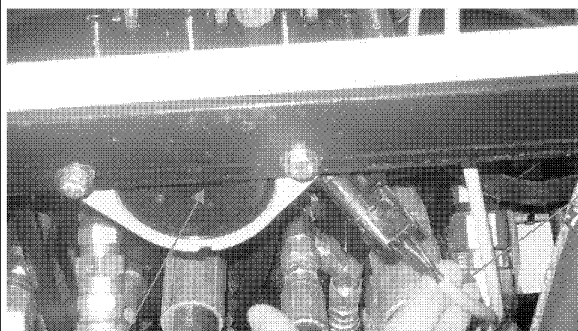


PRETORQUE VALVE.
REF.



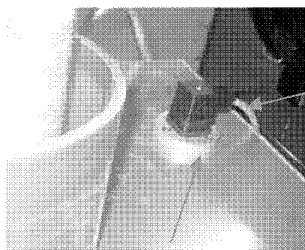
3	3549271	1	E-STOP ASSEMBLY CONSOLE (Page 108)
4	3549272	1	EMERGENCY STOP, MAGNETIC REMOTE (Page 210)
5	3549273	1	JUNCTION BOX ASSEMBLY (Page 212)
6	3549274	1	CABLE, WORK LIGHT
7	3549275	1	CABLE, OIL TEMP
8	3549276	1	CABLE, OIL LEVEL
9	3549277	1	CABLE, SAFETY WIRE
10	5004043	1	CABLE, MAGNETIC E STOP
11	5004044	1	CABLE, ECP TO FAULT BOX
12	5004045	1	CABLE, ECP TO JB # 2
13	5004046	1	CABLE, CONSOLE E STOP
14	5004047	1	CABLE, V 30 TORQUE CONTROL
15	5004048	1	CABLE, V9 FINE FEED LIMIT SWITCH
16	5004049	1	CABLE, V16 BRAKE RELEASE
17	5004050	1	CABLE, V29 ROD MAKE BREAK
18	5004051	1	CABLE, HORN
19	5004052	1	CABLE, OPERATOR CONTROL PANEL

LIMIT SWITCH AND DIN CONNECTOR FROM THE SAME SIDE OF THE JUNCTION BOX MUST BE PAIRED AS SHOWN



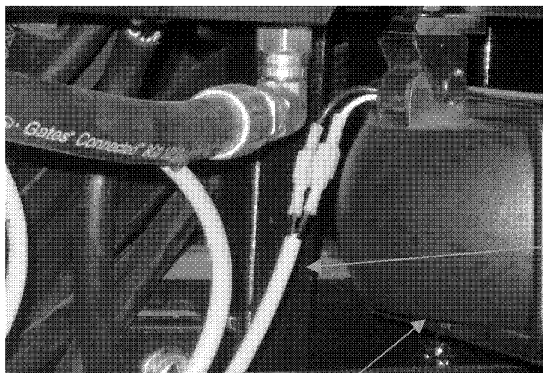
FROM JUCTION BOX
ITEM 5

HORN REF.



TO FAULT BOX
ITEM 2
LOCATED ON TOP OF HYD. RESEVOIR REF.

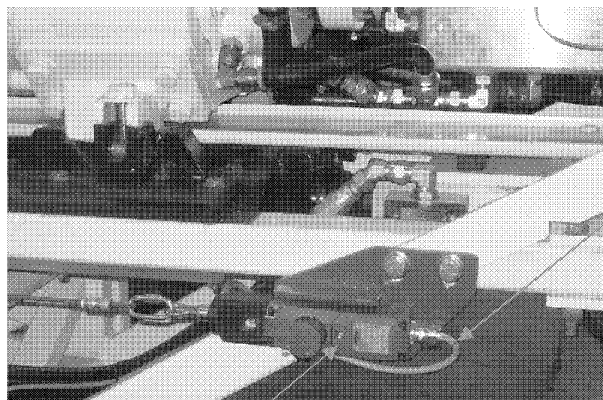
OIL LEVEL SENSOR REF.



ITEM 6
FROM ENGINE CONTROL BOX

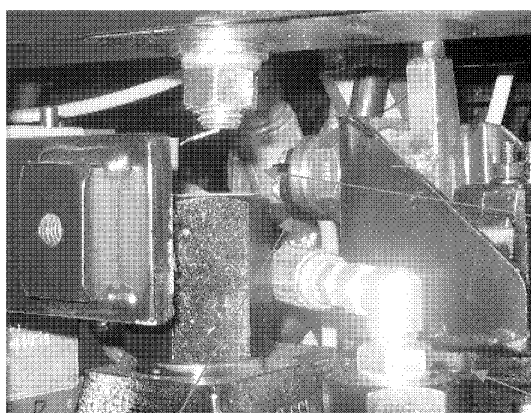
WORK LIGHT REF.

3	3549271	1	E-STOP ASSEMBLY CONSOLE (Page 108)
4	3549272	1	EMERGENCY STOP, MAGNETIC REMOTE (Page 210)
5	3549273	1	JUNCTION BOX ASSEMBLY (Page 212)
6	3549274	1	CABLE, WORK LIGHT
7	3549275	1	CABLE, OIL TEMP
8	3549276	1	CABLE, OIL LEVEL
9	3549277	1	CABLE, SAFETY WIRE
10	5004043	1	CABLE, MAGNETIC E STOP
11	5004044	1	CABLE, ECP TO FAULT BOX
12	5004045	1	CABLE, ECP TO JB # 2
13	5004046	1	CABLE, CONSOLE E STOP
14	5004047	1	CABLE, V 30 TORQUE CONTROL
15	5004048	1	CABLE, V9 FINE FEED LIMIT SWITCH
16	5004049	1	CABLE, V16 BRAKE RELEASE
17	5004050	1	CABLE, V29 ROD MAKE BREAK
18	5004051	1	CABLE, HORN
19	5004052	1	CABLE, OPERATOR CONTROL PANEL



ITEM 9

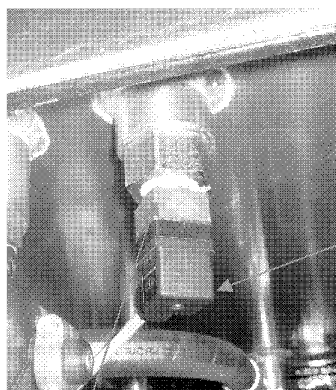
PULL CORD E-STOP REF.



TO JUNCTION BOX
ITEM 5
LOCATED UNDER CONSOLE
COVER AT ROTATION LEVER REF.

NEUTRAL SWITCH REF.

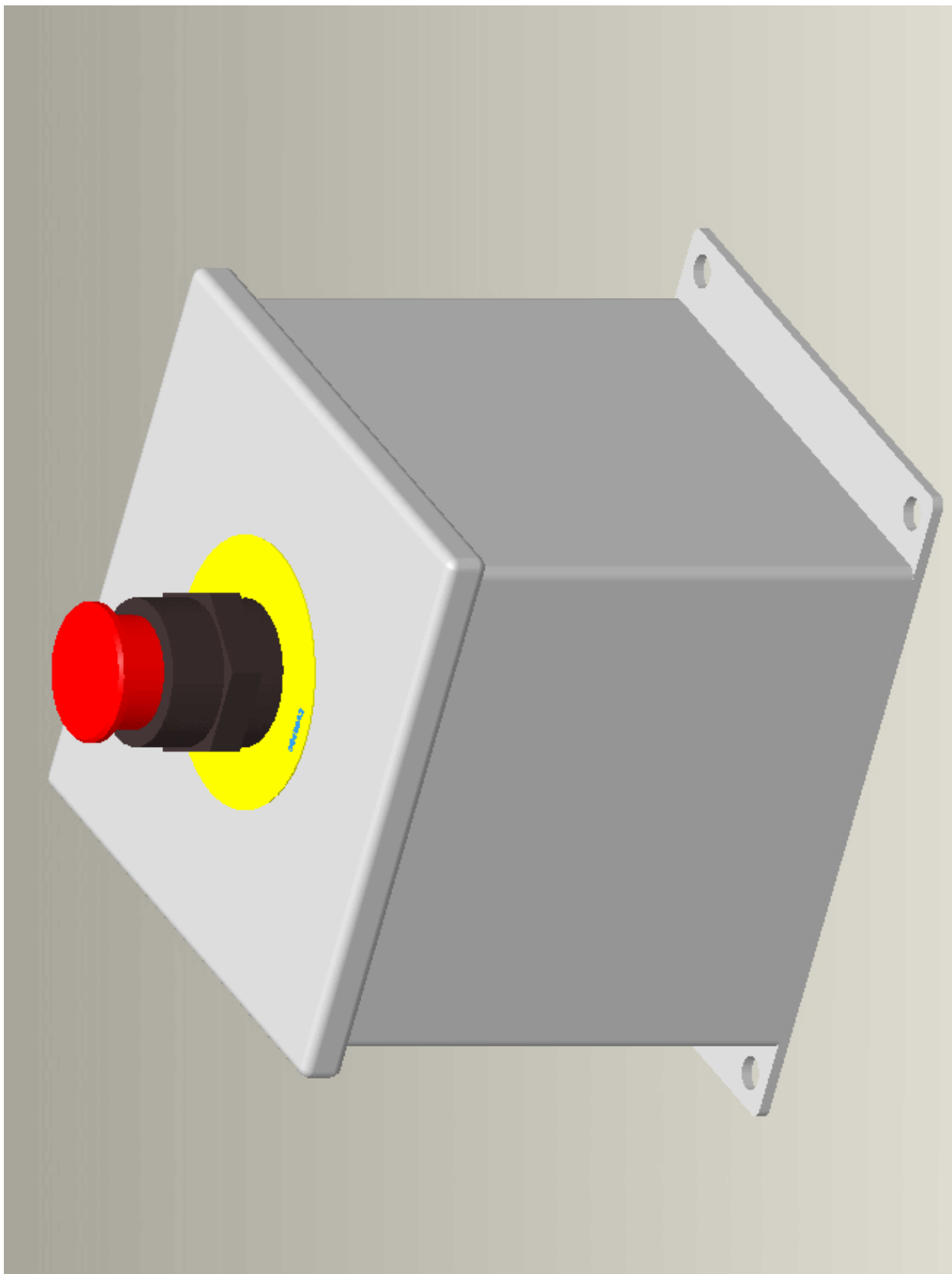
DANFOSS VALVE REF.



ITEM 7
TO FAULT BOX
LOCATED ON BOTTOM OF HYD. RES. REF.

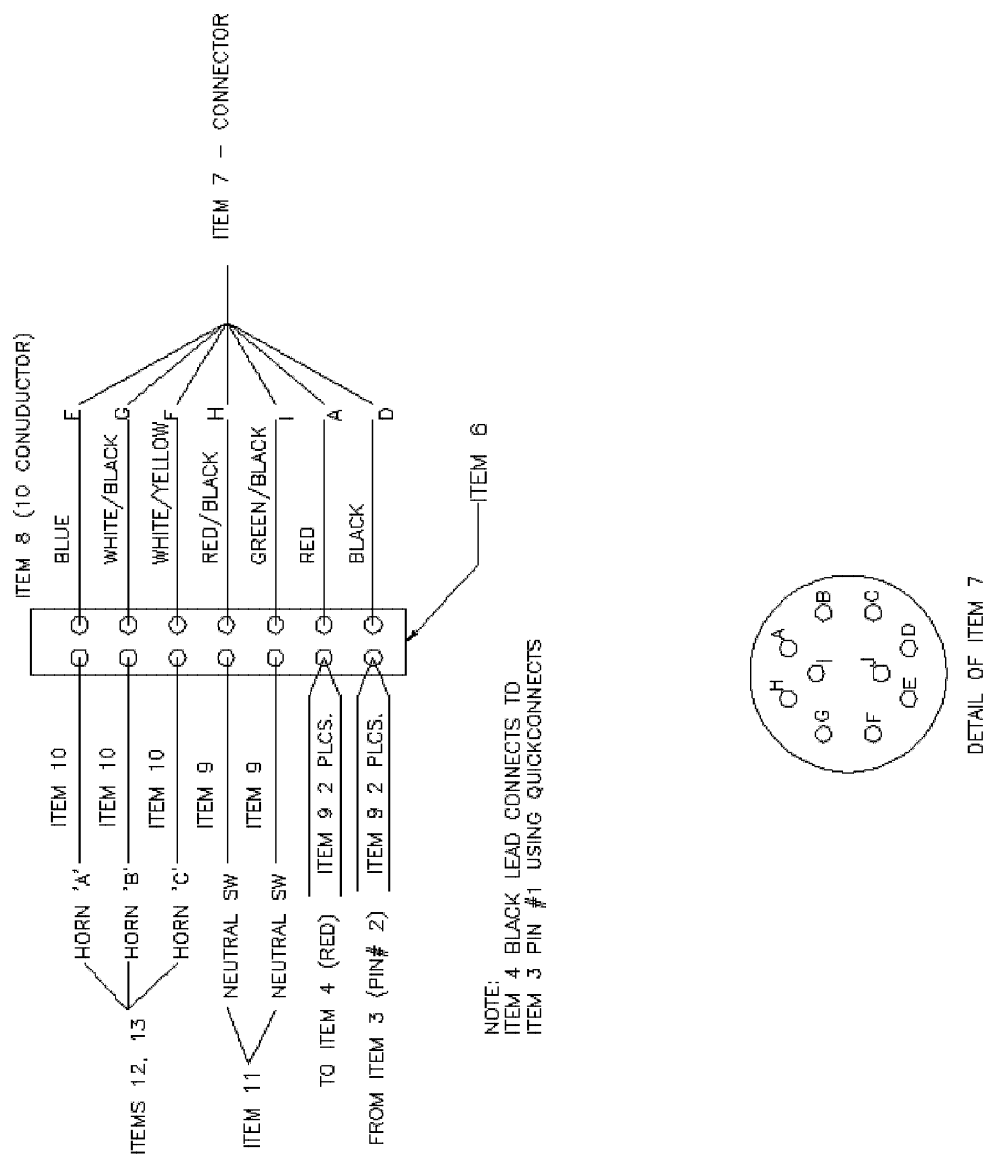
OIL TEMP SENSOR REF.

3	3549271	1	E-STOP ASSEMBLY CONSOLE (Page 108)
4	3549272	1	EMERGENCY STOP, MAGNETIC REMOTE (Page 210)
5	3549273	1	JUNCTION BOX ASSEMBLY (Page 212)
6	3549274	1	CABLE, WORK LIGHT
7	3549275	1	CABLE, OIL TEMP
8	3549276	1	CABLE, OIL LEVEL
9	3549277	1	CABLE, SAFETY WIRE
10	5004043	1	CABLE, MAGNETIC E STOP
11	5004044	1	CABLE, ECP TO FAULT BOX
12	5004045	1	CABLE, ECP TO JB # 2
13	5004046	1	CABLE, CONSOLE E STOP
14	5004047	1	CABLE, V 30 TORQUE CONTROL
15	5004048	1	CABLE, V9 FINE FEED LIMIT SWITCH
16	5004049	1	CABLE, V16 BRAKE RELEASE
17	5004050	1	CABLE, V29 ROD MAKE BREAK
18	5004051	1	CABLE, HORN
19	5004052	1	CABLE, OPERATOR CONTROL PANEL



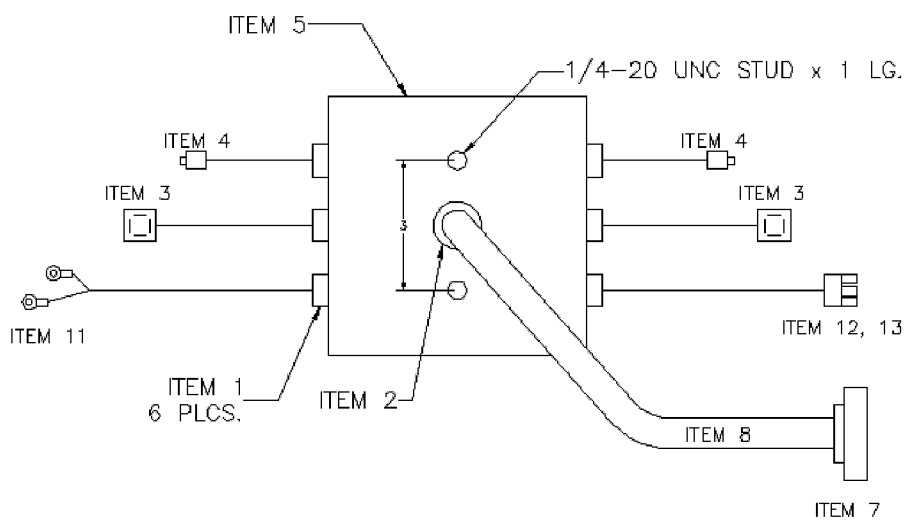
3549272 EMERGENCY STOP, MAGNETIC REMOTE

1	3549464	1	ENCLOSURE, E-STOP MAGNETIC
2	3549458	1	STRAIN RELIEF
3	3549462	1	CABLE, 2 CONDUCTOR
4	3549463	1	E-STOP BUTTON
5	3549456	1	BLOCK, CONTACT N.O.
6	3549457	1	BLOCK, CONTACT N.C.

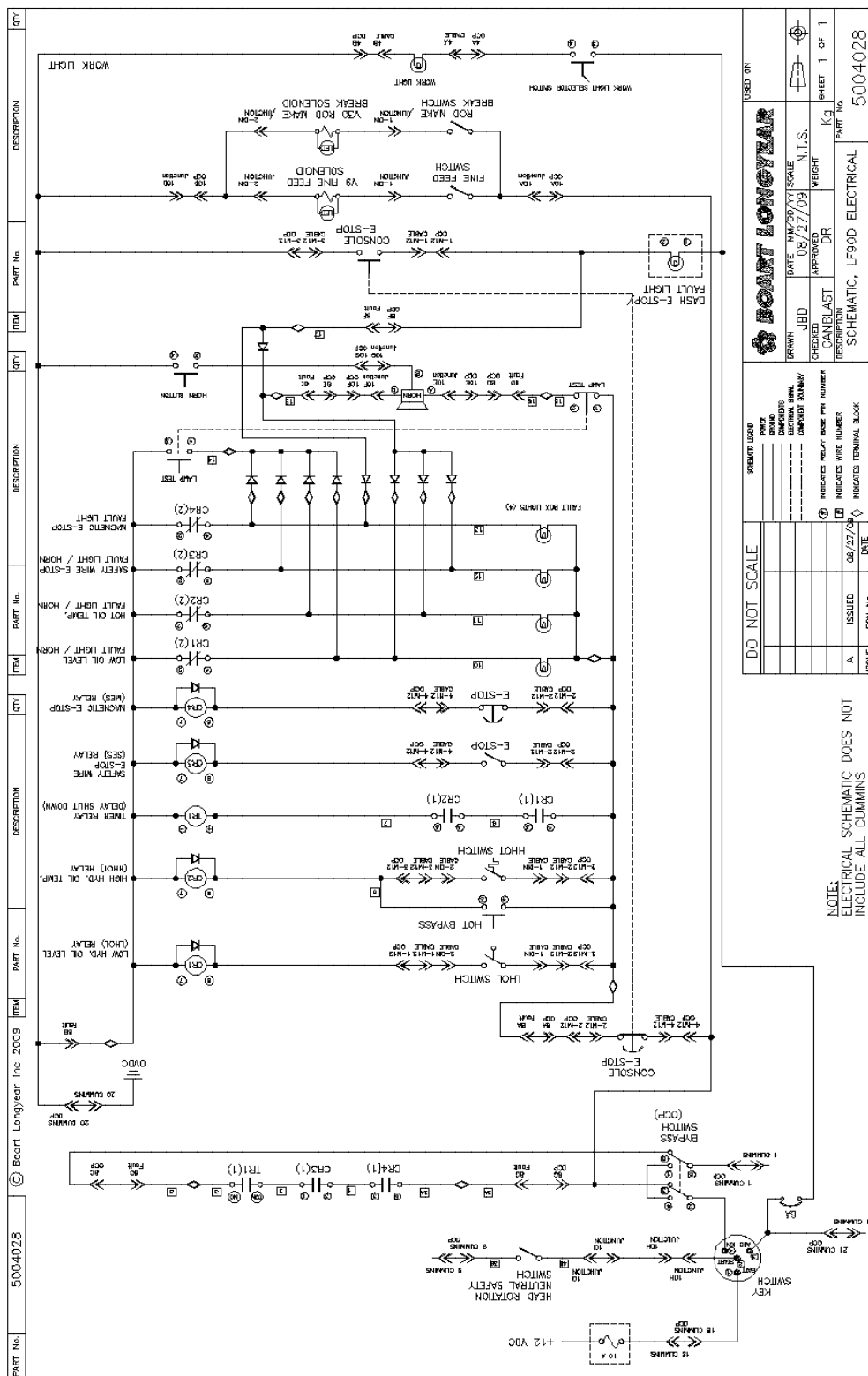


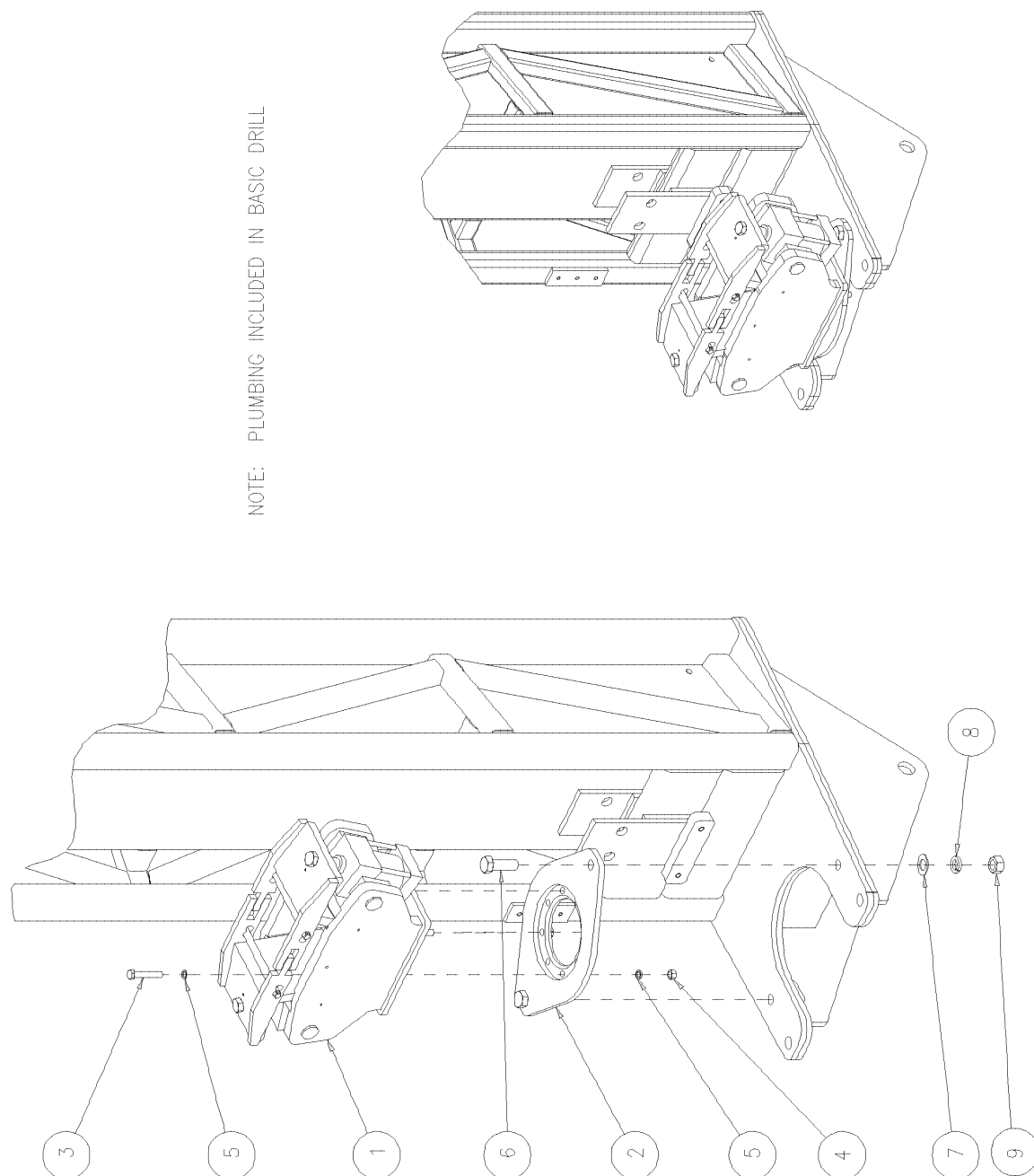
1	3549458	6	STRAIN RELIEF
2	3549459	1	STRAIN RELIEF
3	3549470	2	DIN CONNECTOR
4	3549469	2	LIMIT SWITCH
5	3549471	1	ENCLOSURE
6	3549472	1	TERMINAL BLOCK
7	3549473	1	AMPHENOLE CONNECTOR
8	3549468	1	CABLE 10 CONDUCTOR 18 AWG
9	3549466	3	CABLE 2 CONDUCTOR 18 AWG
10	3549467	1	CABLE 4 CONDUCTOR 18 AWG
11	3549474	2	#10 RING CONNECTORS
12	3549475	1	WEATHER PACK
13	3549476	1	FEMALE TERMINAL

VIEW FROM BACK:



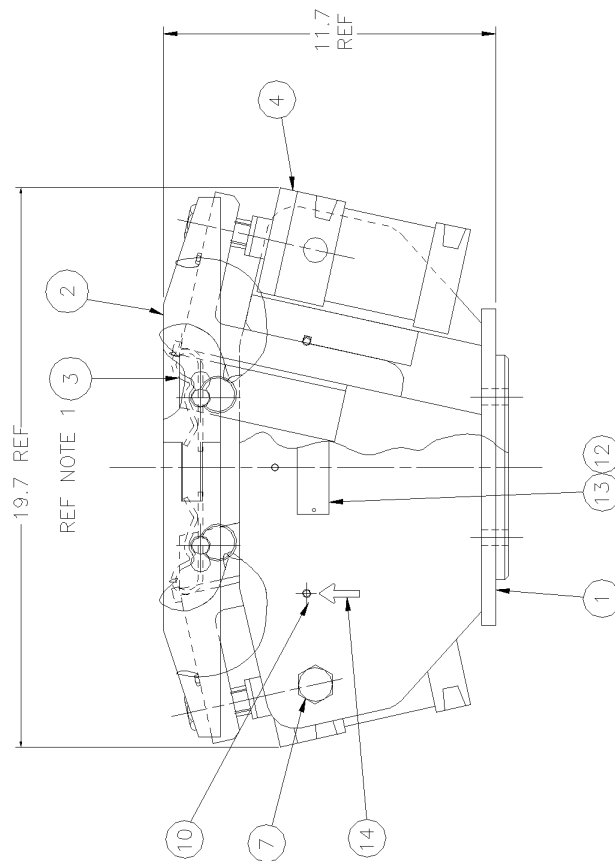
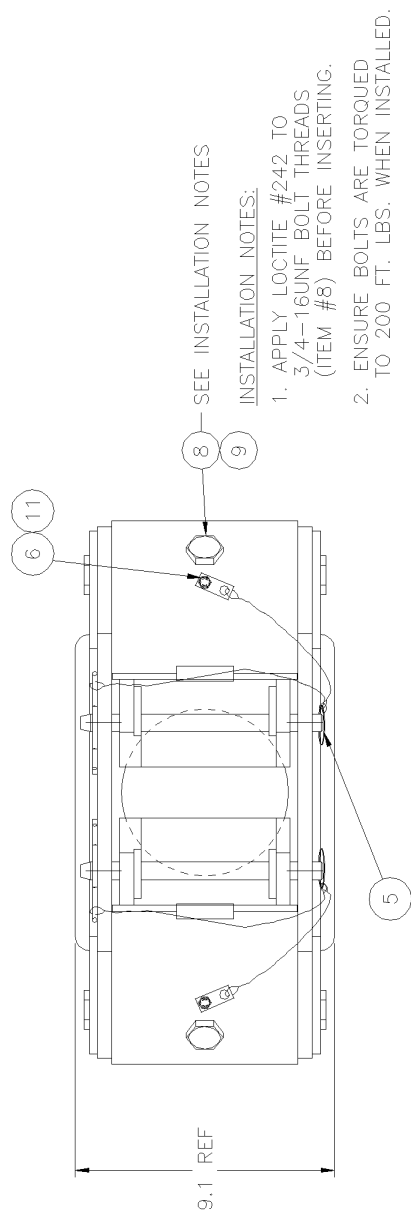
1	3549458	6	STRAIN RELIEF
2	3549459	1	STRAIN RELIEF
3	3549470	2	DIN CONNECTOR
4	3549469	2	LIMIT SWITCH
5	3549471	1	ENCLOSURE
6	3549472	1	TERMINAL BLOCK
7	3549473	1	AMPHENOLE CONNECTOR
8	3549468	1	CABLE 10 CONDUCTOR 18 AWG
9	3549466	3	CABLE 2 CONDUCTOR 18 AWG
10	3549467	1	CABLE 4 CONDUCTOR 18 AWG
11	3549474	2	#10 RING CONNECTORS
12	3549475	1	WEATHER PACK
13	3549476	1	FEMALE TERMINAL





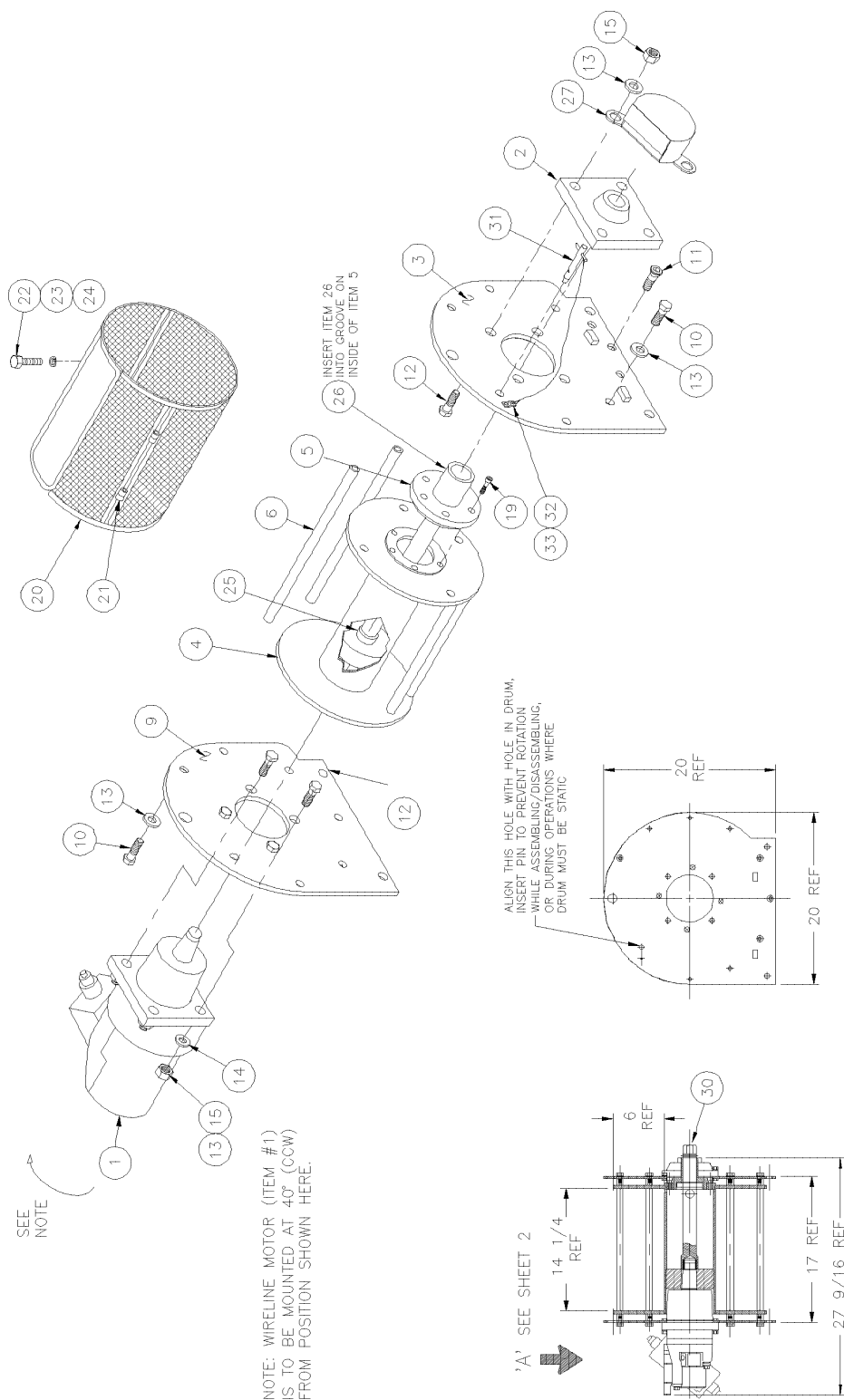
1	3540273	1	CLAMP ASM, ROD LF140 ARQ ROD TO HWT
2	3547520	1	BASE, ROD CLAMP MOUNT
3	44532	4	C/SCR, HH 1/2UNC x 2-3/4 LG
4	44525	4	NUT, HEX 1/2-13 UNC
5	3544766	8	WASHER, NORD-LOCK 1/2"
6	28962	2	C/SCR. HH 7/8-9 UNC x 2 1/2 Lg.
7	27763	2	WASHER, FLAT, GR 8, Ø7/8
8	44643	2	L/WASHER, SPLIT SPRING Ø7/8
9	44601	2	NUT, HEX 7/8-9 UNF
10 00	96770	1	Seal Kit, Valve Cartridge (Valve 100231)
12 00	43021	2	Cylinder Kit, Hydraulic

00) Included in Spare Parts Kit 306085

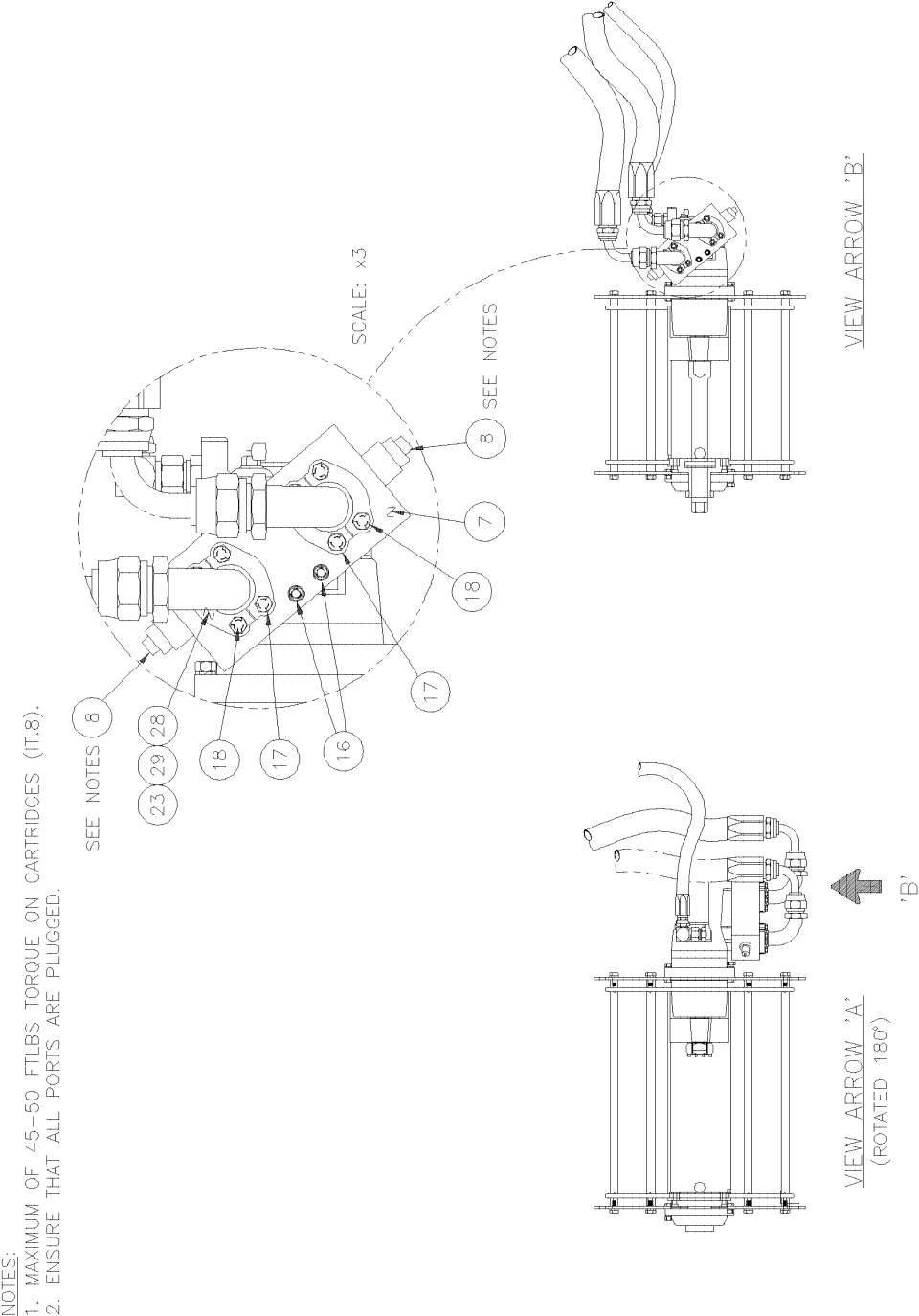


NOTES: 1. USED WITH SLIP SETS FOR (1.75 TO 3.69" OD)

1	102806	1	BOWL, ROD CLAMP
2	49937	2	GUIDE, WELD'T (SLIPS 4.5" to 5" OD) [Slips 4.5" to 5"]
3	3540049	2	FOOT CLAMP ADAPTER
4 00	41621	2	CYLINDER, HYDRAULIC
5	3543253	2	PIN ASM, QUICK RELEASE
6	44954	2	SCR, #10 UNC x 1/2 LG
7	50229	4	BOLT, TRUNION
8	43008	2	C/SCR, HH. 3/4-16 UNF x 2"Lg. 3/4-16 UNF x 2"
9	44523	2	L/WASHER, SPLIT SPRING 3/4
10	17447	4	FITTING, GREASE 1/4-28 UNF STR - [L.C. #90359-16]
11	44540	2	L/WASHER, SPLIT SPRING #10
12	38298	1	PLATE, SERIAL No.
13	23183	2	SCREW, DRIVE
14	24586	1	DECAL SPEC (GREASE)
00)	USES SEAL KIT # 43021		

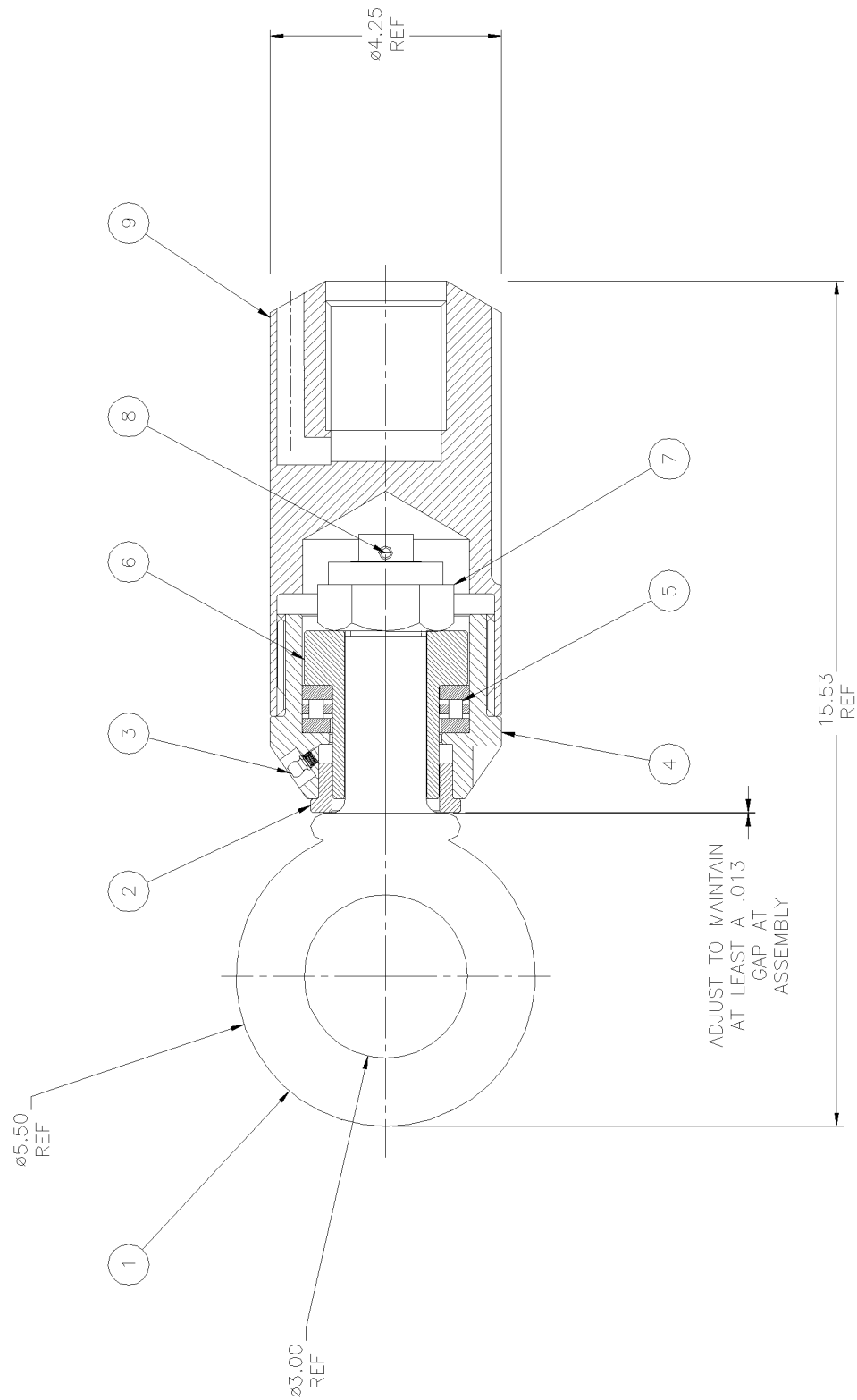


1	104862	1	MOTOR, HYDRAULIC
2	104859	1	4 BOLT FLANGE BEARING
3	306125	1	END PLATE (RHS)
4	306123	1	DRUM WELDMENT
5	104858	1	BEARING SHAFT
6	102725	9	SPACER BAR
7	104863	1	BODY, HYDRAULIC
8	3546773	2	CARTRIDGE, COUNTERBALANCE
9	306126	1	END PLATE (LHS)
10	44512	10	C/SCR, HH 3/8 UNC x 1 LG
11	47266	8	C/SCR FLAT HD 3/8-16 x 3/4 Lg.
12	44640	8	C/SCR, HH 1/2-13UNC x 1-3/4
13	44521	8	L/WASHER, SPLIT SPRING 1/2"
14	44520	20	L/WASHER, 3/8 SAE G8
15	44525	8	NUT, HEX 1/2-13 UNC
16	63607	4	C/SCR SH 3/8-16 x 2 1/2 Lg.
17	44728	4	BOLT, HH 3/8-16 UNC x 3-1/4
18	44593	4	C/SCR, HH 3/8-16UNC x 1 1/4
19	44630	5	C/SCR SH 3/8-16 x 1 Lg.
20	306127	1	GUARD, W/L HOIST
21	26112	2	PIN, QUICK RELEASE Dia1/4"
22	44638	1	C/SCR HH, 3/8-16 x 2 3/4 Lg.
23	44520	9	L/WASHER, 3/8 SAE G8
24	44527	1	NUT, HEX 3/8-16UNC
25	306129	1	RETAINING/DISASM. TOOL
26	37500	1	O-RING, SAE 128 BUNA N 70D
27	306155	1	GUARD, WIRELINE
28	306182	2	SPLIT FLANGE KIT (#12)
29	33840	2	ADAP. HYD. 90Deg #12S/F x #12JIC(F)
30	3540032	1	PIN, COTTER 1/8 x 2 1/2 LG [1/8 x 2 1/2" Lg.]
31	3540214	1	PIN ASSY, QUICK RELEASE
32	44954	1	SCR, #10 UNC x 1/2 LG
33	44540	1	L/WASHER, SPLIT SPRING #10

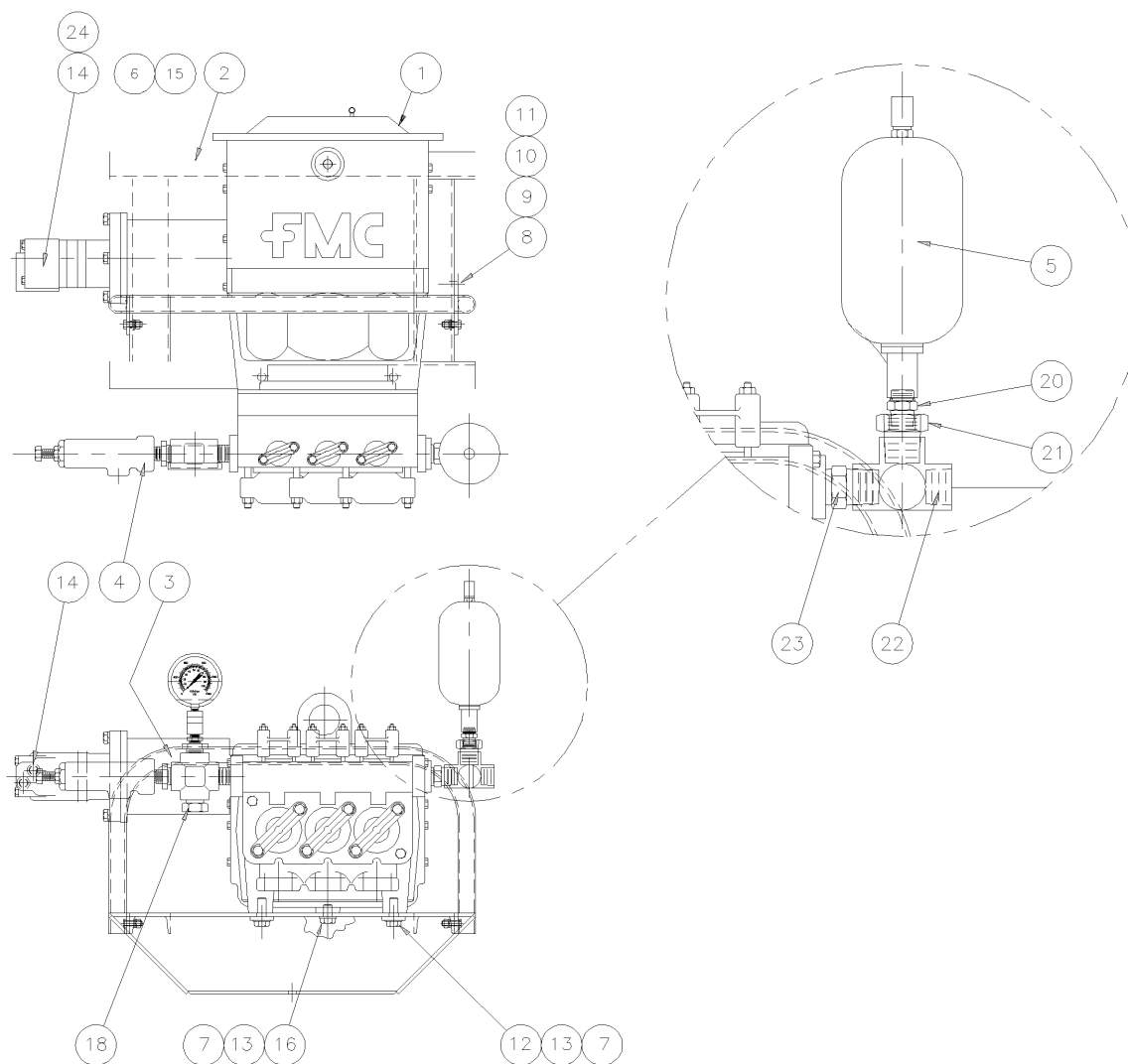


1	104862	1	MOTOR, HYDRAULIC
2	104859	1	4 BOLT FLANGE BEARING
3	306125	1	END PLATE (RHS)
4	306123	1	DRUM WELDMENT
5	104858	1	BEARING SHAFT
6	102725	9	SPACER BAR
7	104863	1	BODY, HYDRAULIC
8	3546773	2	CARTRIDGE, COUNTERBALANCE
9	306126	1	END PLATE (LHS)
10	44512	10	C/SCR, HH 3/8 UNC x 1 LG
11	47266	8	C/SCR FLAT HD 3/8-16 x 3/4 Lg.
12	44640	8	C/SCR, HH 1/2-13UNC x 1-3/4
13	44521	8	L/WASHER, SPLIT SPRING 1/2"
14	44520	20	L/WASHER, 3/8 SAE G8
15	44525	8	NUT, HEX 1/2-13 UNC
16	63607	4	C/SCR SH 3/8-16 x 2 1/2 Lg.
17	44728	4	BOLT, HH 3/8-16 UNC x 3-1/4
18	44593	4	C/SCR, HH 3/8-16UNC x 1 1/4
19	44630	5	C/SCR SH 3/8-16 x 1 Lg.
20	306127	1	GUARD, W/L HOIST
21	26112	2	PIN, QUICK RELEASE Dia1/4"
22	44638	1	C/SCR HH, 3/8-16 x 2 3/4 Lg.
23	44520	9	L/WASHER, 3/8 SAE G8
24	44527	1	NUT, HEX 3/8-16UNC
25	306129	1	RETAINING/DISASM. TOOL
26	37500	1	O-RING, SAE 128 BUNA N 70D
27	306155	1	GUARD, WIRELINE
28	306182	2	SPLIT FLANGE KIT (#12)
29	33840	2	ADAP. HYD. 90Deg #12S/F x #12JIC(F)
30	3540032	1	PIN, COTTER 1/8 x 2 1/2 LG [1/8 x 2 1/2" Lg.]
31	3540214	1	PIN ASSY, QUICK RELEASE
32	44954	1	SCR, #10 UNC x 1/2 LG
33	44540	1	L/WASHER, SPLIT SPRING #10

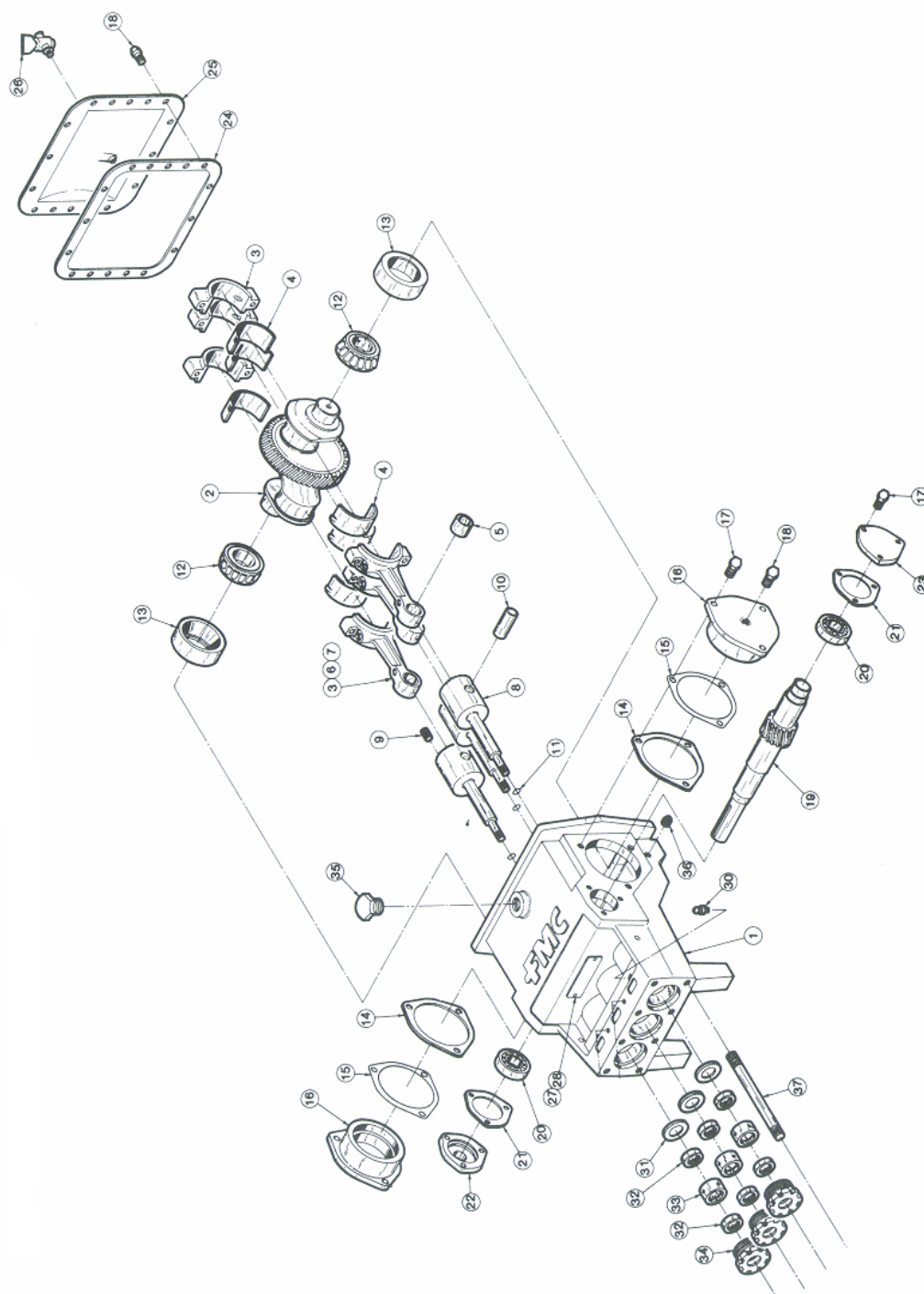
1	3547862	1	WIRE ROPE 15mm x 75' Lg.
2	5002769	1	PIN ASM, HOIST
3	3542898	1	HOIST PLUG, HEAVY DUTY (Page 228)



1	3542899	1	BOLT, EYE REWORK 30K HOIST PLUG
2	3542900	1	SLEEVE, WEAR 30K HOIST PLUG
3	17447	1	FITTING, GREASE 1/4-28 UNF STR - [L.C. #90359-16]
4	3542901	1	BEARING HOUSING, 30K HOIST PLUG
5	3542902	1	BEARING, 30K HOIST PLUG
6	3542903	1	SLEEVE, SHAFT 30K HOIST PLUG
7	3542914	1	L/NUT, 1-1/2 UNF STOVER GR 8
8	3542936	1	PIN, SPRING 1/4 x 2 LG
9	3542904	1	LOWER HOUSING, 30K HOIST PLUG

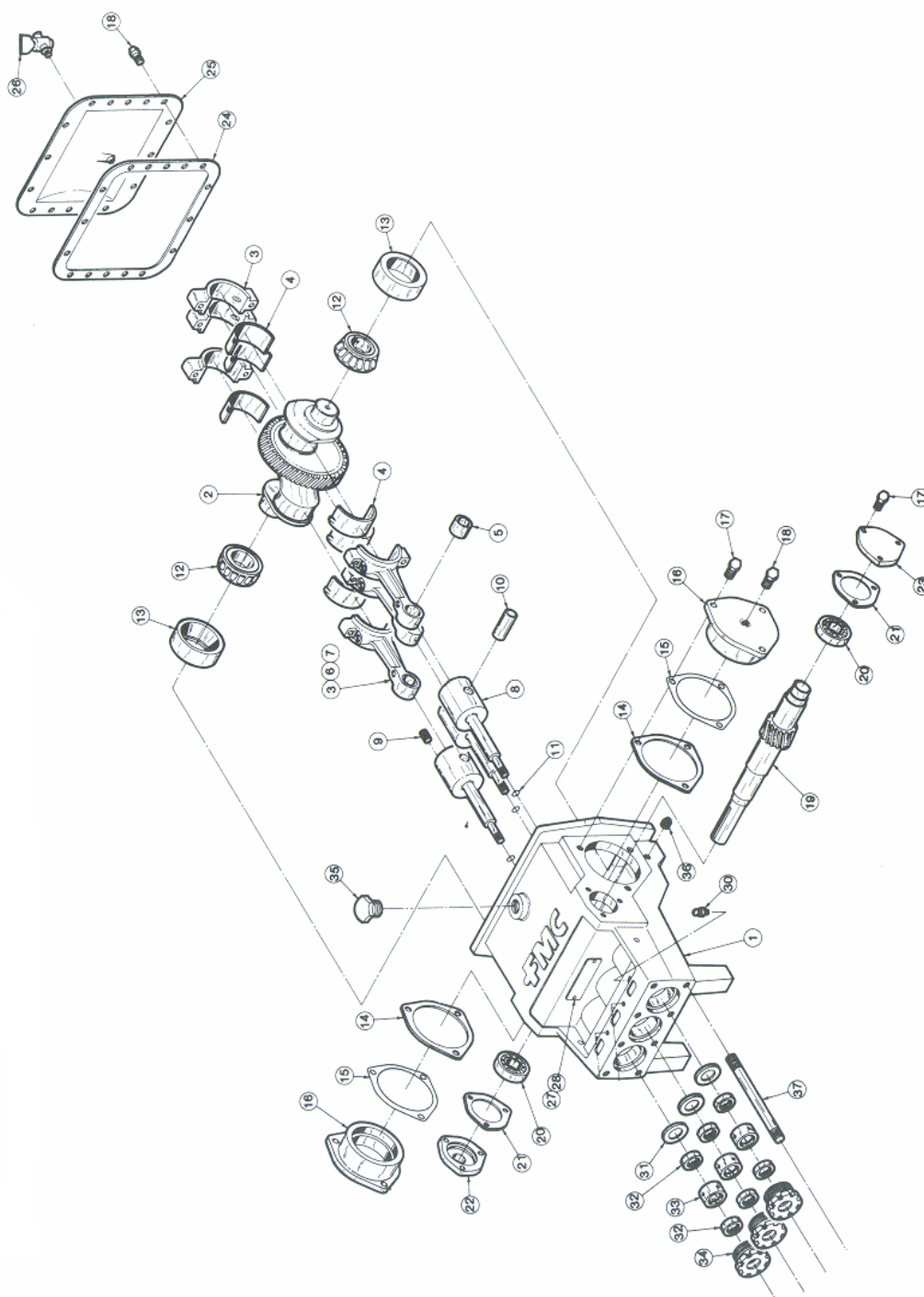


1	24821	1	PUMP ASSEMBLY, WATER 35GPM (Page 232)
2	3543281	1	SKID, WATER PUMP (W11)
3	3543282	1	BAR, LIFTING (W11) PUMP
4	18185	1	DISCHARGE ASM, PUMP #20 NPT [FMC W11] (Page 240)
5	3544479	1	ACCUMULATOR, 1 QUART
6	38298	1	PLATE, SERIAL No.
7	19325	3	WASHER, BEVEL Dia5/8
8	44510	4	C/SCR, HH 1/2-13 UNC x 1-1/2
9	17121	4	WASHER, 1/2 BEVEL
10	44521	4	L/WASHER, SPLIT SPRING 1/2"
11	44525	4	NUT, HEX 1/2-13 UNC
12	44514	2	C/SCR, HH 5/8-11 x 1-3/4" - [L.C. #90214-173]
13	44522	3	L/WASHER, SPLIT SPRING 5/8
14	3547406	1	DRIVE GROUP, WATER PUMP W11
15	23183	2	SCREW, DRIVE
16	44514	1	C/SCR, HH 5/8-11 x 1-3/4" - [L.C. #90214-173]
17	14570	1	HOSE ASM, SUCTION 2" ID x 20 FT.
18	18183	1	PLUG, PIPE (SQ. HEAD) 1 1/4-11 1/2 NPT
19	48896	1	ELBOW, 2" NPT x 90° X.H.
20	101029	1	ADAP, HYD #12 ORB x #12 NPT
21	40128	1	ADAP, HYD #12 NPT(F) x #20 NPT
22	34171	1	ADAP, HYD TEE #20 NPT(F)
23	34062	1	ADAP, HYD #20 NPT x #20 NPT
24	3544481	0	KIT, CHAR-LYNN MOTOR SEAL
25		1	NIPPLE, 2" NPT x 12" Lg. X.H.



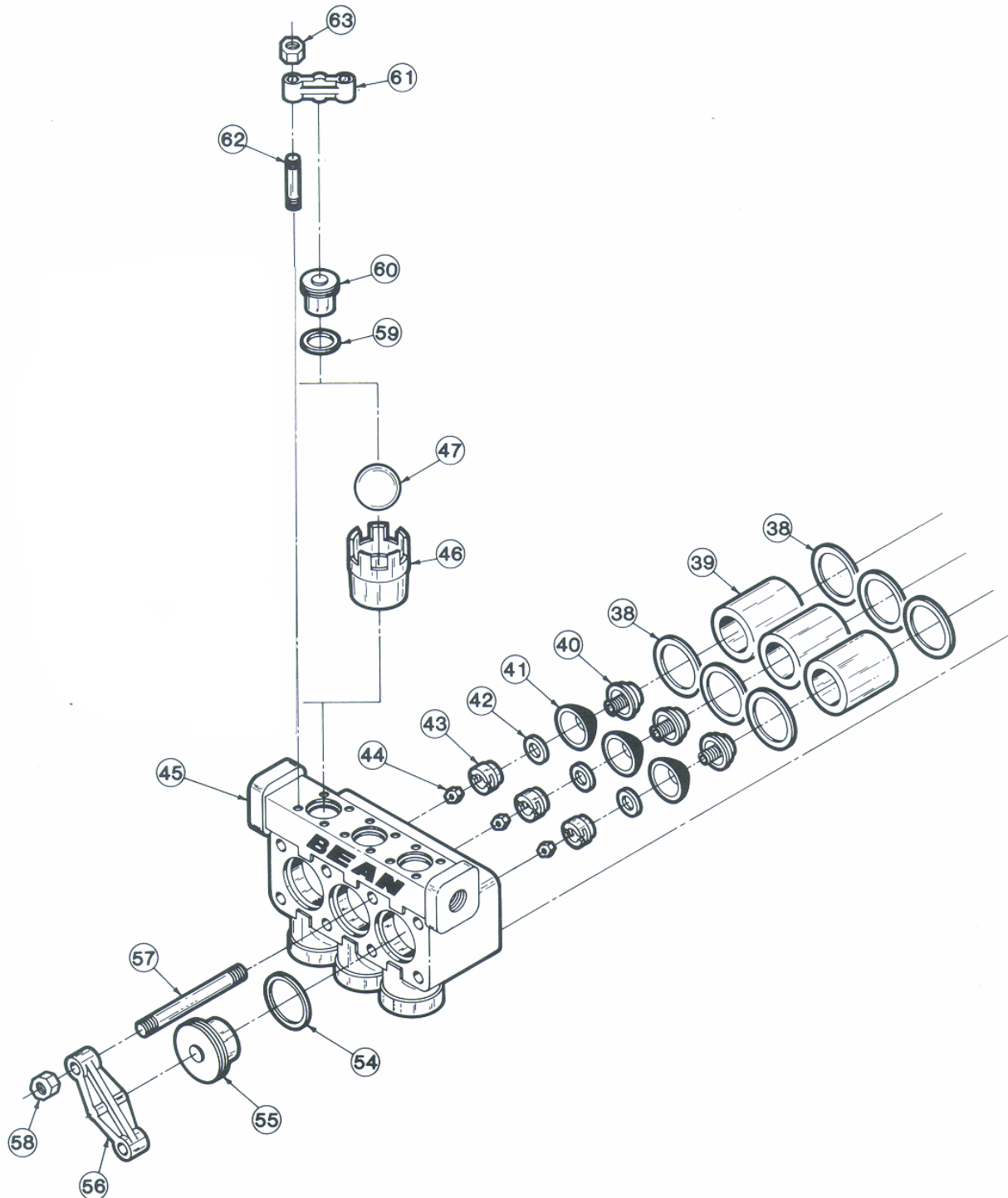
1	79105	1	PUMP CASE
2	79328	1	CRANKSHAFT
3	75077	3	CONNECTING ROD
4	75033	3	BEARING INSERT 1 PR 1284709
5	75032	3	BUSHING, CONNECTING ROD
6	78547	6	BOLT, CONNECTING ROD
7	60899	6	NUT, ELASTIC STOP 1/2-20 UNF
8	75072	3	CROSSHEAD & ROD ASSEMBLY
9	79904	6	S/SCR, SH 5/16-18 UNC x 5/16"
10	75076	3	WRIST PIN
11 00	79327	3	'O'-RING 5/8 O.D. x 1/16"
12	79121	3	CONE, BEARING
13	79120	1	CUP, BEARING
14	75044	1	GASKET, CRANKSHAFT BEARING
15	79113	1	SHIM .005" THICK
16	79114	2	HOUSING, CRANKSHAFT BEARING
17	44530	12	C/SCR, HH 1/2 UNC x 1 1/4 LG
18	44529	18	C/SCR, HH 1/2-13 UNC x 3/4"
19	79116	1	PINION SHAFT
20	18208	2	BALL BEARING, CRANKSHAFT
21	75043	2	GASKET, PINION BEARING
22	79109	1	CAP, PINION BEARING OPEN
23	79108	1	CAP, PINION BEARING
24	75045	1	GASKET, COVER
25	79123	1	COVER, PLATE
26	79098	1	PETCOCK 1/8 NPT
27	79905	1	PLATE, MODEL
28	79906	2	SCREW #4 x 3/16"
30	16634	3	FITTING-GREASE 1/8 NPTF
31	79748	3	WASHER, PACKING
32 00	79321	6	SEAL, OIL
33	79320	3	SLEEVE, PACKING NUT
34	79326	3	NUT, PLUNGER ROD
35	79081	1	CAP, OIL FILLER
36	79112	2	PLUG, PIPE (MAGNETIC) 1/2" NPT
37	75041	6	STUD, LONG 5/8" DIA.
38	79322	6	GASKET, CYLINDER JOINT
39 00	79103	3	CERAMIC LINED STEEL
40	75037	3	CUP, PLUNGER
41	75003	3	PACKING, CYLINDER NEOPRENE
42	75062	3	WASHER, PLUNGER CUP

00) INCLUDED IN WATER PUMP SPARES KIT 36686



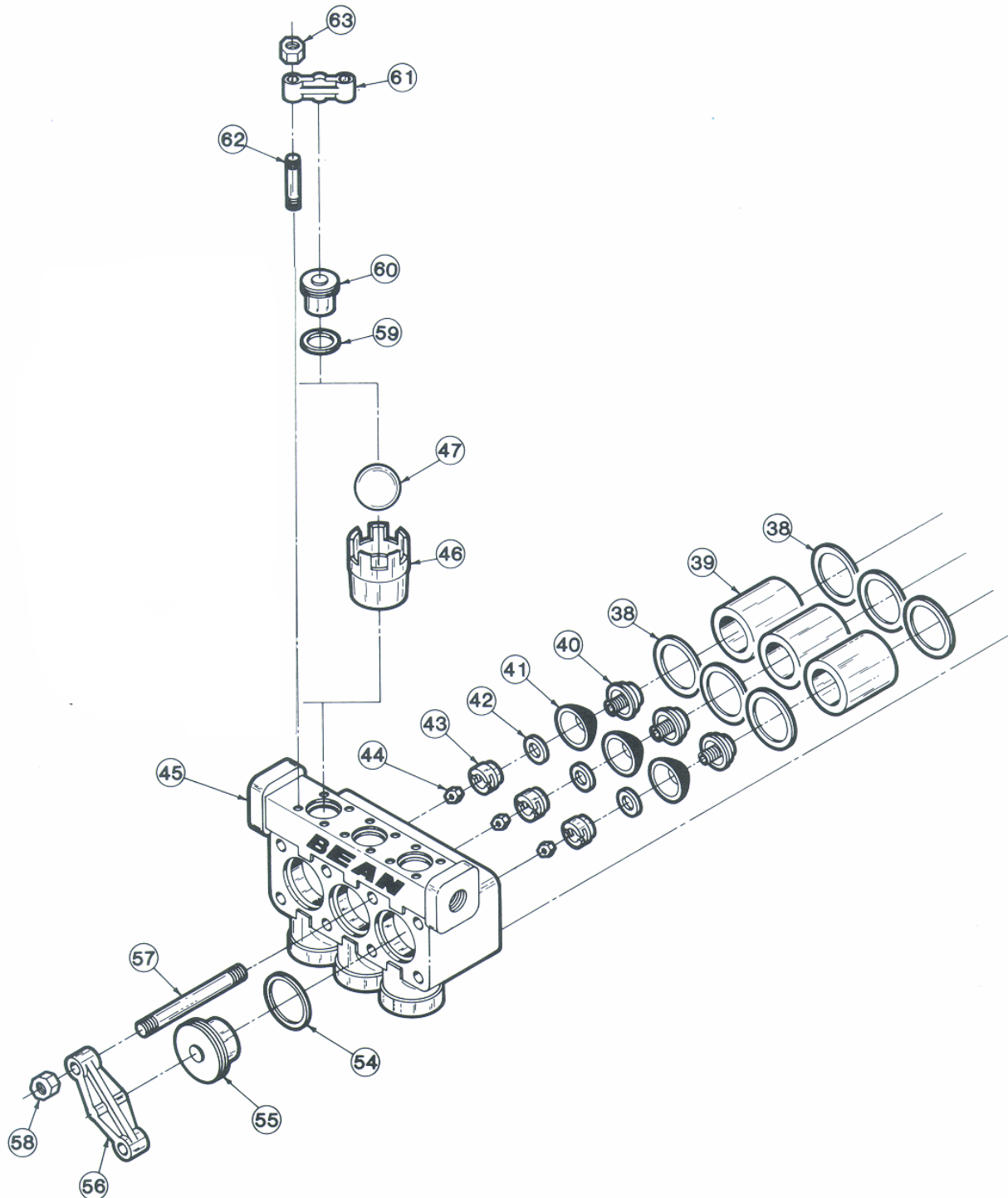
43	00	75012	3	NUT, PLUNGER
44		75027	3	NUT, SPECIAL
45		79325	1	VALVE, CHAMBER
46	00	79324	6	SEAT, BALL VALVE
47	00	26157	6	BALL 1-1/8" DIA.
54		79323	3	GASKET, CYLINDER HEAD KEVLAR
55		63684	3	COVER, CYLINDER
56		79101	3	CLAMP, CYLINDER HEAD
57		75042	2	STUD, CYLINDER
58		44526	8	NUT, HH 5/8-11 UNC
59		79334	3	GASKET, VALVE COVER KEVLAR
60		79882	3	COVER, VALVE
61		78541	3	CLAMP, VALVE COVER
62		75022	6	STUD 1/2 x 3-1/4" Lg.
63		44525	6	NUT, HEX 1/2-13 UNC
64		28097	2	PLUG, 2" NPT SQ HD
65		18183	1	PLUG, PIPE (SQ. HEAD) 1 1/4-11 1/2 NPT
66		75019	1	PLUNGER CUP REMOVER
67		79333	1	VALVE SEAT REMOVER
100	00	75070	REF	GASKET, CYLINDER
101	00	75071	REF	GASKET, CYLINDER HEAD COPPER
102	00	75069	REF	GASKET, VALVE COVER COPPER
103	00	79606	REF	PACKING, CYLINDER CARBOXILATED

00) INCLUDED IN WATER PUMP SPARES KIT 36686



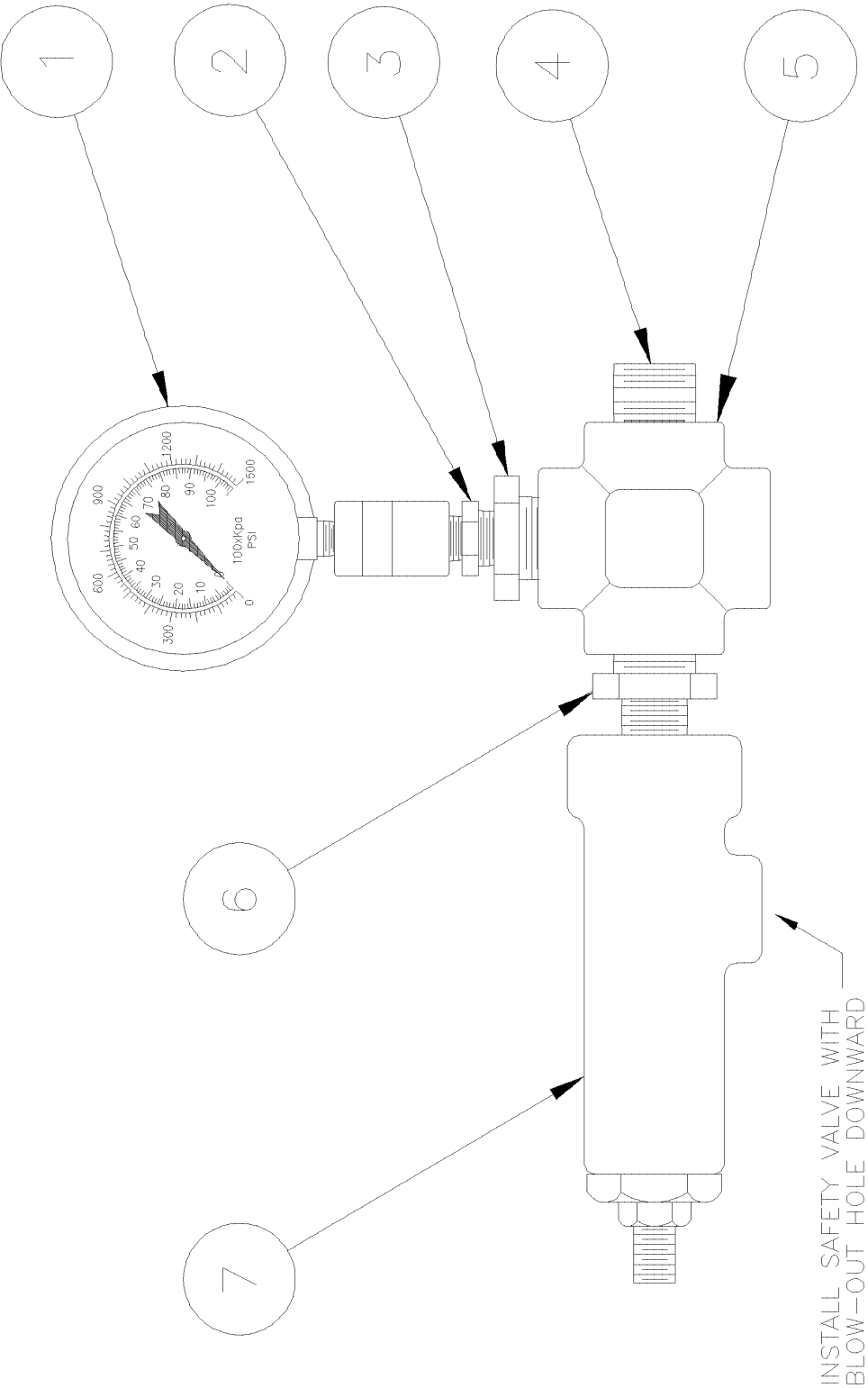
1	79105	1	PUMP CASE
2	79328	1	CRANKSHAFT
3	75077	3	CONNECTING ROD
4	75033	3	BEARING INSERT 1 PR 1284709
5	75032	3	BUSHING, CONNECTING ROD
6	78547	6	BOLT, CONNECTING ROD
7	60899	6	NUT, ELASTIC STOP 1/2-20 UNF
8	75072	3	CROSSHEAD & ROD ASSEMBLY
9	79904	6	S/SCR, SH 5/16-18 UNC x 5/16"
10	75076	3	WRIST PIN
11 00	79327	3	'O'-RING 5/8 O.D. x 1/16"
12	79121	3	CONE, BEARING
13	79120	1	CUP, BEARING
14	75044	1	GASKET, CRANKSHAFT BEARING
15	79113	1	SHIM .005" THICK
16	79114	2	HOUSING, CRANKSHAFT BEARING
17	44530	12	C/SCR, HH 1/2 UNC x 1 1/4 LG
18	44529	18	C/SCR, HH 1/2-13 UNC x 3/4"
19	79116	1	PINION SHAFT
20	18208	2	BALL BEARING, CRANKSHAFT
21	75043	2	GASKET, PINION BEARING
22	79109	1	CAP, PINION BEARING OPEN
23	79108	1	CAP, PINION BEARING
24	75045	1	GASKET, COVER
25	79123	1	COVER, PLATE
26	79098	1	PETCOCK 1/8 NPT
27	79905	1	PLATE, MODEL
28	79906	2	SCREW #4 x 3/16"
30	16634	3	FITTING-GREASE 1/8 NPTF
31	79748	3	WASHER, PACKING
32 00	79321	6	SEAL, OIL
33	79320	3	SLEEVE, PACKING NUT
34	79326	3	NUT, PLUNGER ROD
35	79081	1	CAP, OIL FILLER
36	79112	2	PLUG, PIPE (MAGNETIC) 1/2" NPT
37	75041	6	STUD, LONG 5/8" DIA.
38	79322	6	GASKET, CYLINDER JOINT
39 00	79103	3	CERAMIC LINED STEEL
40	75037	3	CUP, PLUNGER
41	75003	3	PACKING, CYLINDER NEOPRENE
42	75062	3	WASHER, PLUNGER CUP

00) INCLUDED IN WATER PUMP SPARES KIT 36686



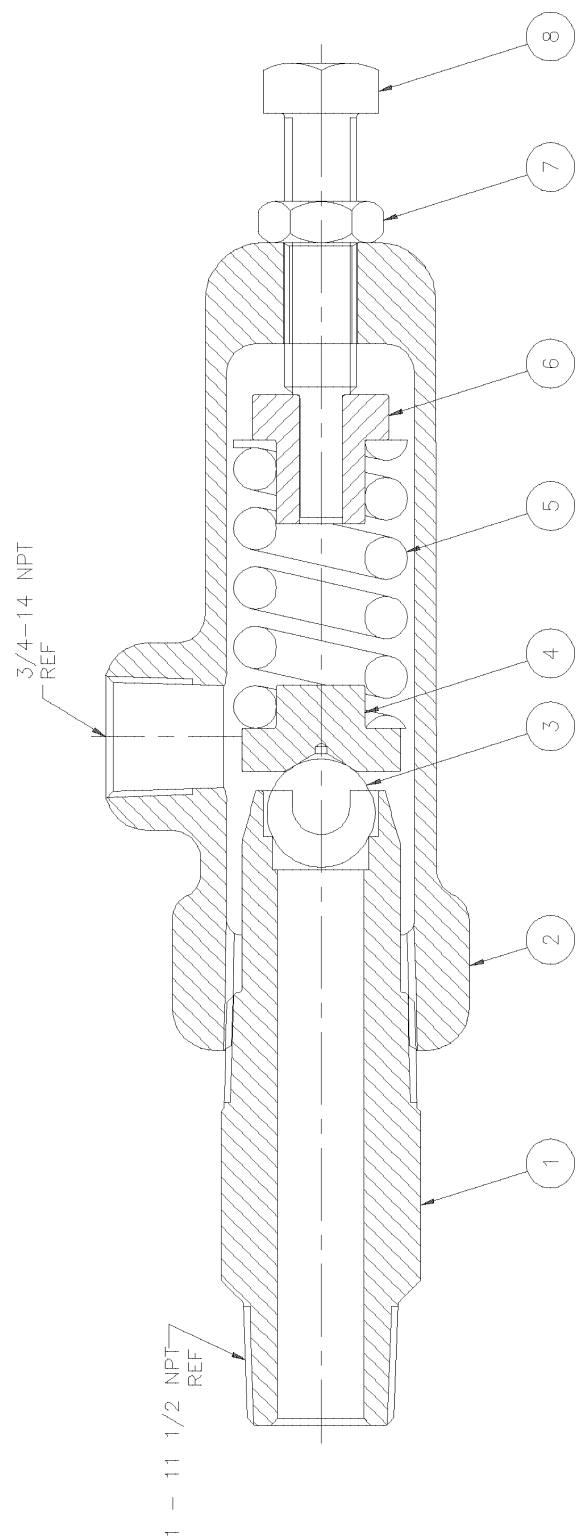
43	00	75012	3	NUT, PLUNGER
44		75027	3	NUT, SPECIAL
45		79325	1	VALVE, CHAMBER
46	00	79324	6	SEAT, BALL VALVE
47	00	26157	6	BALL 1-1/8" DIA.
54		79323	3	GASKET, CYLINDER HEAD KEVLAR
55		63684	3	COVER, CYLINDER
56		79101	3	CLAMP, CYLINDER HEAD
57		75042	2	STUD, CYLINDER
58		44526	8	NUT, HH 5/8-11 UNC
59		79334	3	GASKET, VALVE COVER KEVLAR
60		79882	3	COVER, VALVE
61		78541	3	CLAMP, VALVE COVER
62		75022	6	STUD 1/2 x 3-1/4" Lg.
63		44525	6	NUT, HEX 1/2-13 UNC
64		28097	2	PLUG, 2" NPT SQ HD
65		18183	1	PLUG, PIPE (SQ. HEAD) 1 1/4-11 1/2 NPT
66		75019	1	PLUNGER CUP REMOVER
67		79333	1	VALVE SEAT REMOVER
100	00	75070	REF	GASKET, CYLINDER
101	00	75071	REF	GASKET, CYLINDER HEAD COPPER
102	00	75069	REF	GASKET, VALVE COVER COPPER
103	00	79606	REF	PACKING, CYLINDER CARBOXILATED

00) INCLUDED IN WATER PUMP SPARES KIT 36686



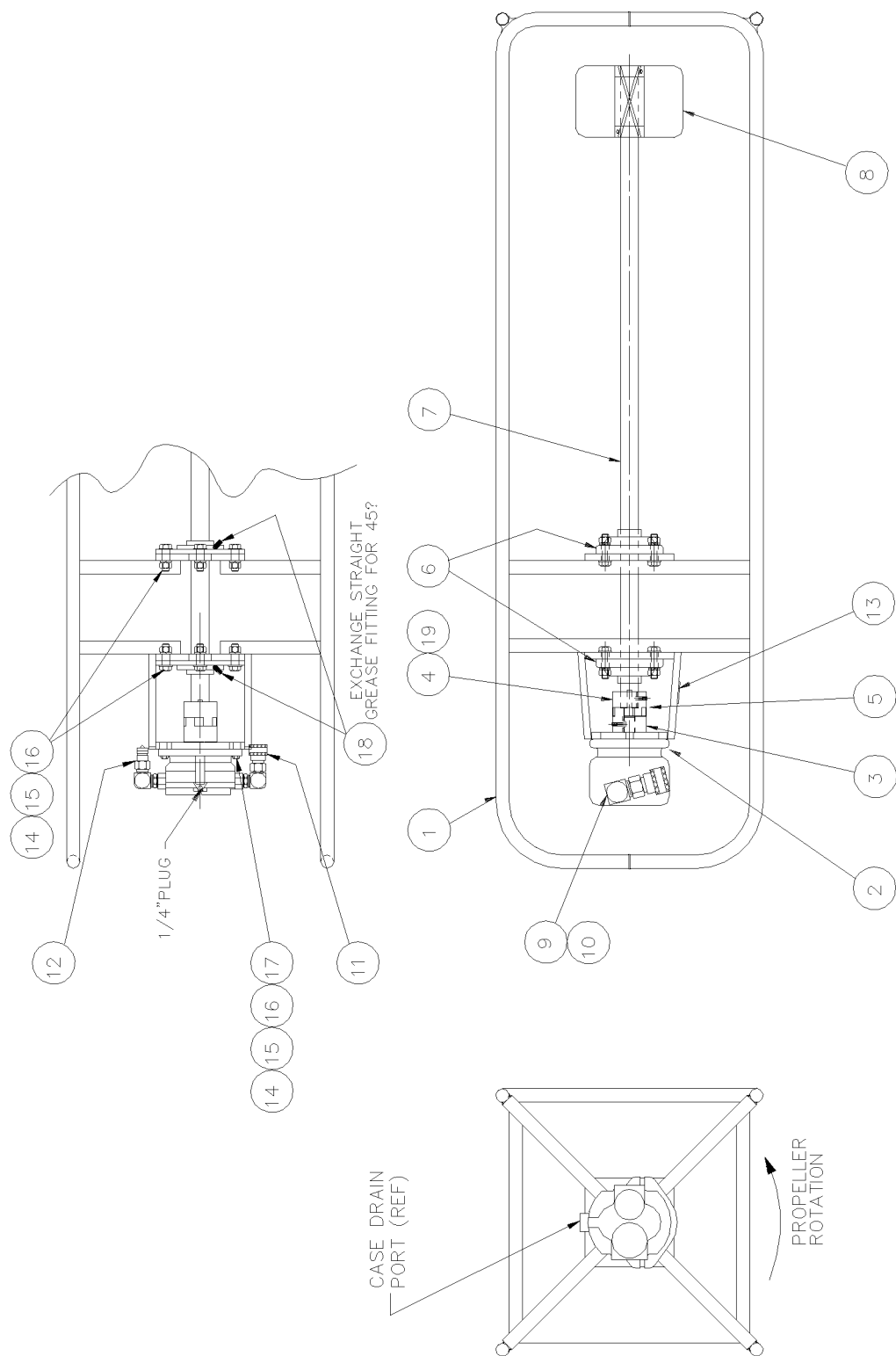
1	00	19163	1	GAUGE, PRESSURE
2		17905	1	NIPPLE, CLOSE #8 NPT XH
3		18922	1	BUSHING, HEX PIPE #20 x #8 NPT
4		20720	1	NIPPLE, #20 NPT x 2 LG XH
5		21063	1	CROSS, PIPE #20 NPT
6		17944	1	BUSHING, HEX PIPE #20 x #16 NPT
7		3546492	1	VALVE, PRESSURE RELIEF (Page 242)

00) INCLUDED IN FLUID CIRCULATION SPARES KIT 102631

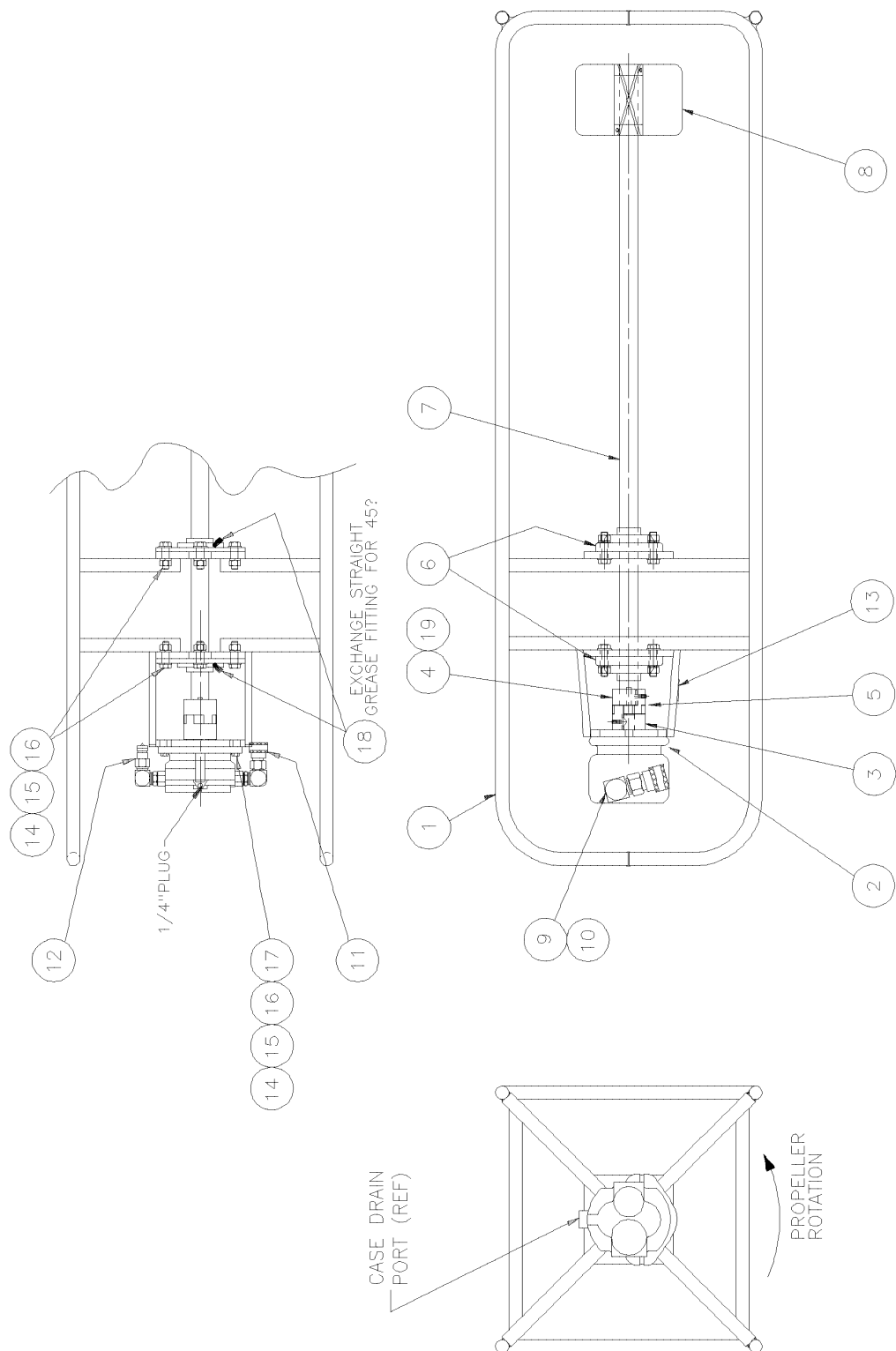


3546492 VALVE, PRESSURE RELIEF

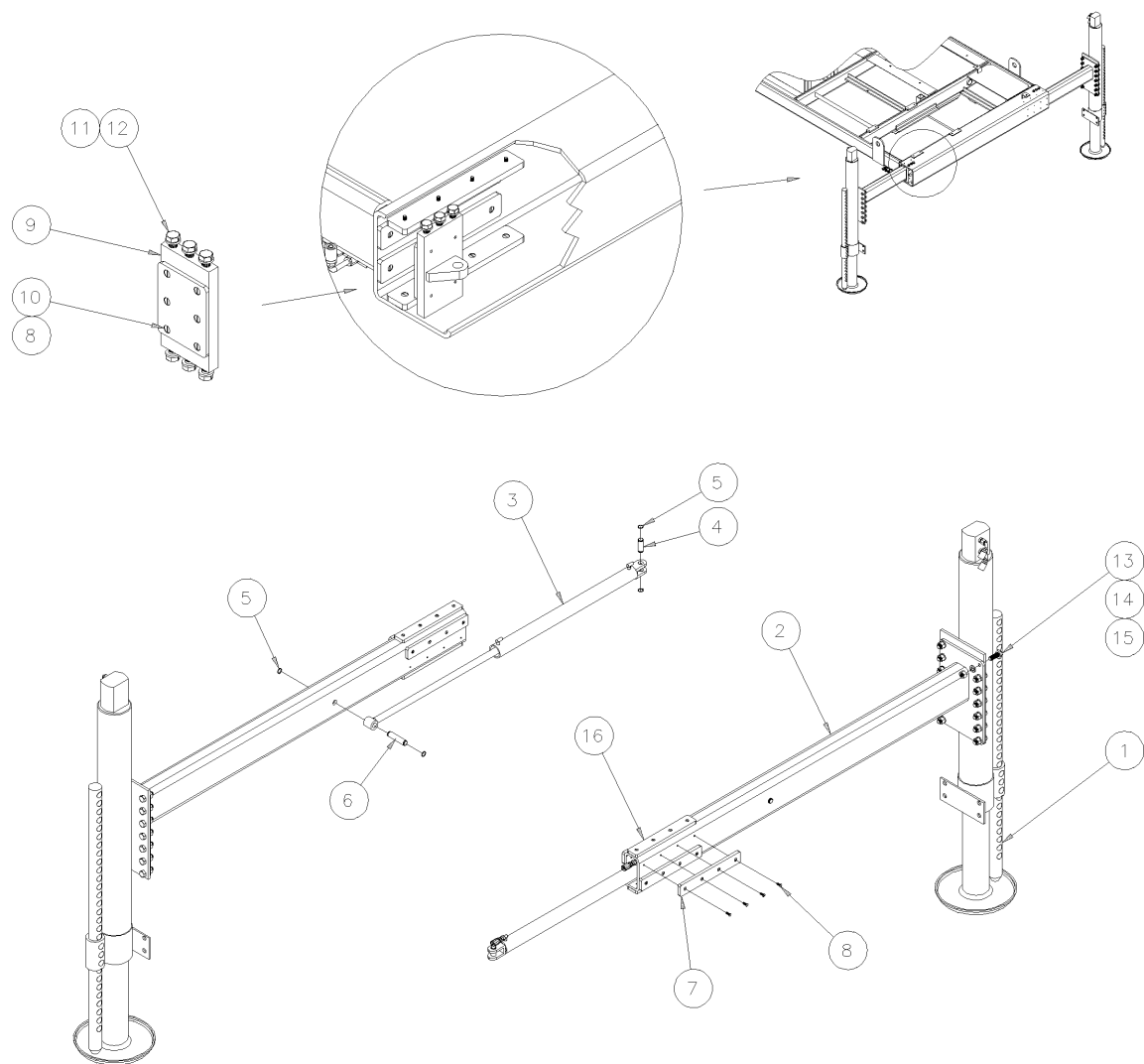
1	3546496	1	SEAT
2	3546493	1	BODY
3	21837	1	BALL, SS 15/16 DIA
4	3546495	1	HOLDER, BALL
5	24313	1	SPRING, COMPRESSION
6	3546494	1	GUIDE, SPRING
7	22179	1	NUT-BRASS 5/8-11 UNC
8	21841	1	SCREW-ADJUST



1		101486	1	SUPPORT ASM., BEARING
2	02	101491	1	MOTOR, HYDRAULIC
3	00	101557	1	COUPLER, JAW REWORK
4	00	101490	1	COUPLER, JAW
5	00	101494	1	SPIDER, RUBBER
6		101493	2	BEARING, BALL, FLANGE
7		101488	1	SHAFT, MUD MIXER
8		101492	1	PROPELLER ASM.
9		102190	2	ADAP HYD. 90° #8 SAE x 1/2" NPT
10		34214	2	ADAP, HYD 12 ORB - 8 ORB F
11		101536	1	COUPLER, FEMALE 8 NPT
12		101537	1	COUPLER, MALE 8 NPT
13		38298	1	PLATE, SERIAL No.
14		44536	10	C/SCR, HH 3/8-16UNC x 1-1/2
15		44520	10	L/WASHER, 3/8 SAE G8
16		44527	10	NUT, HEX 3/8-16UNC
17		44610	2	WASHER, FLAT 5/16 SAE G8
18		19917	2	FITTING, GREASE 1/8 NPT x 45Deg
19		46152	1	KEY, 1/4 sq. x 1" Lg.
20	00	96770	1	Seal Kit, Valve Cartridge (Valve 100231)
21	00	96653	1	Seal Plate Kit, Body Valve (100211) W/L Hoist
00)	Included in Spare Parts Kit 102633			
02)	SEAL KIT # 180133 AVAILABLE			

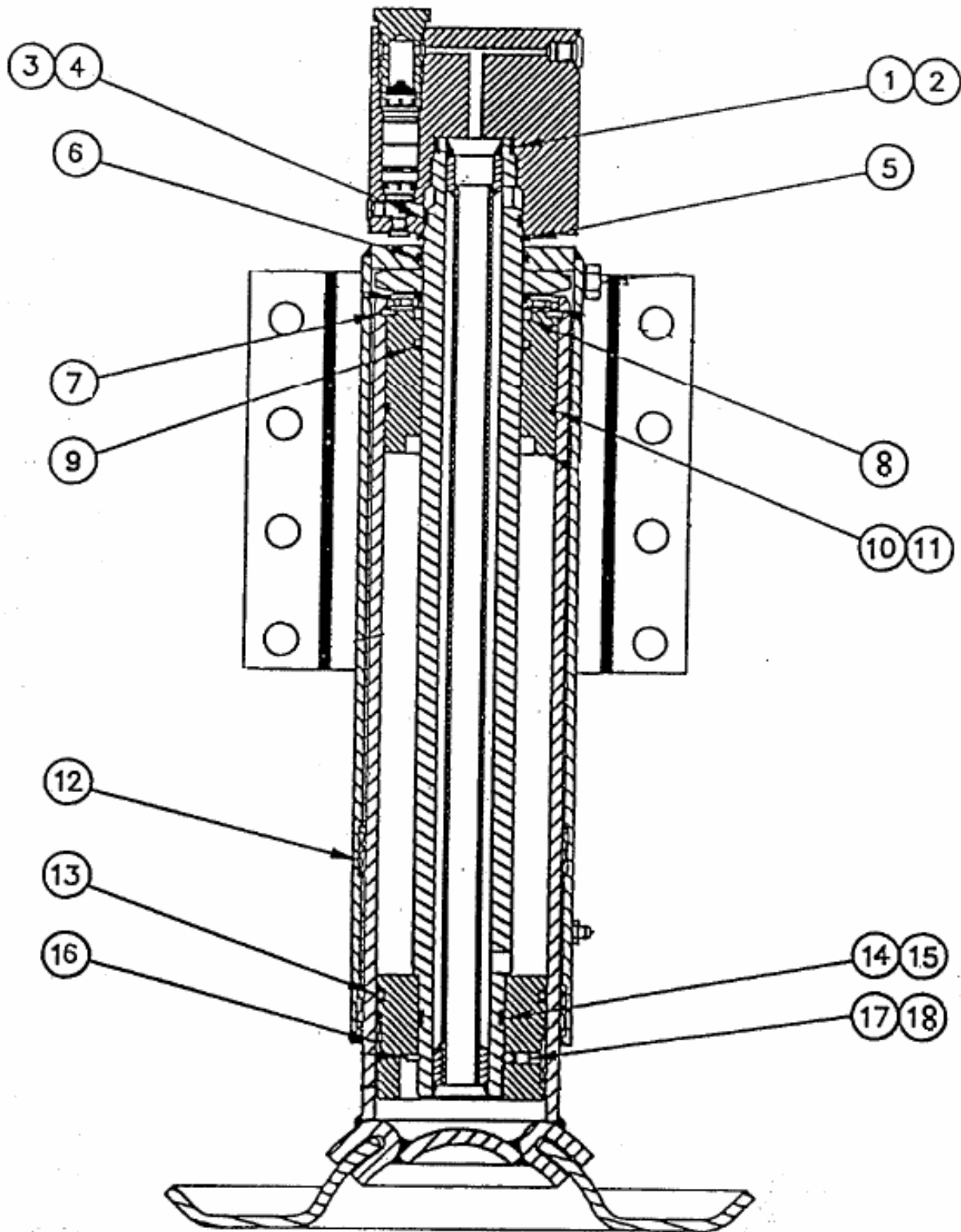


1		101486	1	SUPPORT ASM., BEARING
2	01	3549626	1	MOTOR, HYDRAULIC EATON
3	00	101557	1	COUPLER, JAW REWORK
4	00	101490	1	COUPLER, JAW
5	00	101494	1	SPIDER, RUBBER
6		101493	2	BEARING, BALL, FLANGE
7		101488	1	SHAFT, MUD MIXER
8		101492	1	PROPELLER ASM.
9		102190	2	ADAP HYD. 90° #8 SAE x 1/2" NPT
10		34214	2	ADAP, HYD 12 ORB - 8 ORB F
11		101536	1	COUPLER, FEMALE 8 NPT
12		101537	1	COUPLER, MALE 8 NPT
13		38298	1	PLATE, SERIAL No.
14		44536	10	C/SCR, HH 3/8-16UNC x 1-1/2
15		44520	10	L/WASHER, 3/8 SAE G8
16		44527	10	NUT, HEX 3/8-16UNC
17		44610	2	WASHER, FLAT 5/16 SAE G8
18		19917	2	FITTING, GREASE 1/8 NPT x 45Deg
19		46152	1	KEY, 1/4 sq. x 1" Lg.
20	00	96770	1	Seal Kit, Valve Cartridge (Valve 100231)
21	00	96653	1	Seal Plate Kit, Body Valve (100211) W/L Hoist
00)	Included in Spare Parts Kit 102633			
01)	SEAL KIT # 3549578 AVAILABLE			



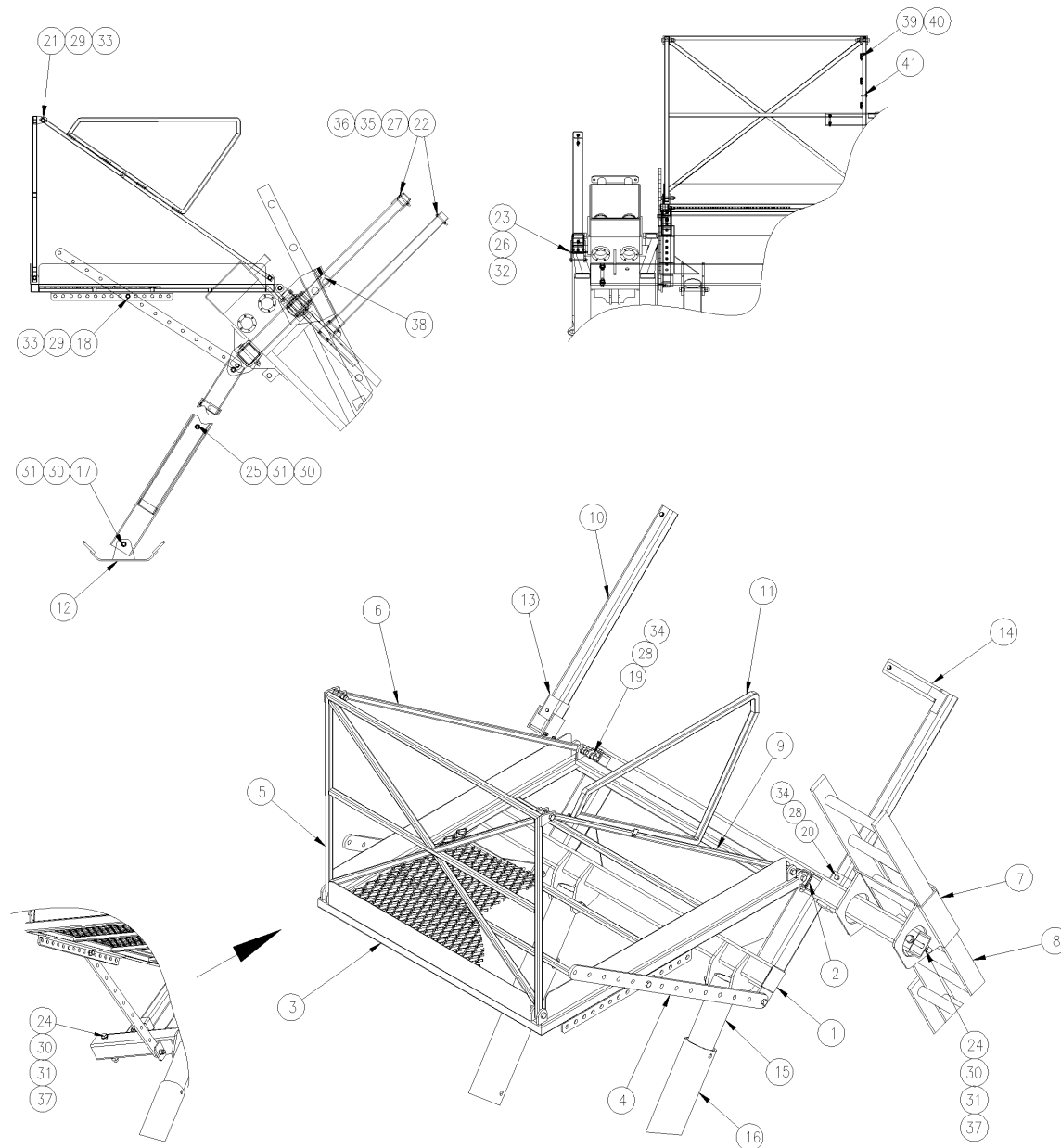
3547654 HYDRAULIC OUTRIGGERS & JACKS (INCLUDES CONTROLS)

1	3541598	4	LEG, STABILIZER OUTRIGGER (Page 250)
2	3547209	4	WELDMENT, OUTRIGGER TUBE
3	3547210	4	CYLINDER, OUTRIGGER
4	3547463	4	PIN, OUTRIGGER
5		16	CLIP, RETAINING
6	3548547	4	PIN, OUTRIGGER
7	3547537	20	WEAR PAD
8		168	SCREW, BRASS
9	3547211	4	MOUNT, CYLINDER OUTRIGGER
10	3547536	4	WEAR PAD
11		24	C/SCR
12		24	LOCKWASHER
13		56	C/SCR
14		56	LOCKWASHER
15		56	NUT
16	3547538	16	WEAR PAD
17 00		1	4:1 LOCK VALVE BODY POWER GEAR 300093
18 00		2	O-RING POWER GEAR 01-1006
19 00		2	PILOT OPERATED CHECK VALVE POWER GEAR 300427
20 00		1	RETAINING PLUG POWER GEAR 300022
21 00		5	#2 SAE HOLLOW HET PLUG POWER GEAR 07-1061
22 00		1	POPPET POWER GEAR 300003
23 00		1	SPRING POWER GEAR 31-1016
24 00		2	BACK-UP WASHER POWER GEAR 05-1009
25 00		1	#4 SAE HOLLOW HEX PLUG POWER GEAR 07-1201
00)	Incuded in Spare Parts Kit 3544255		

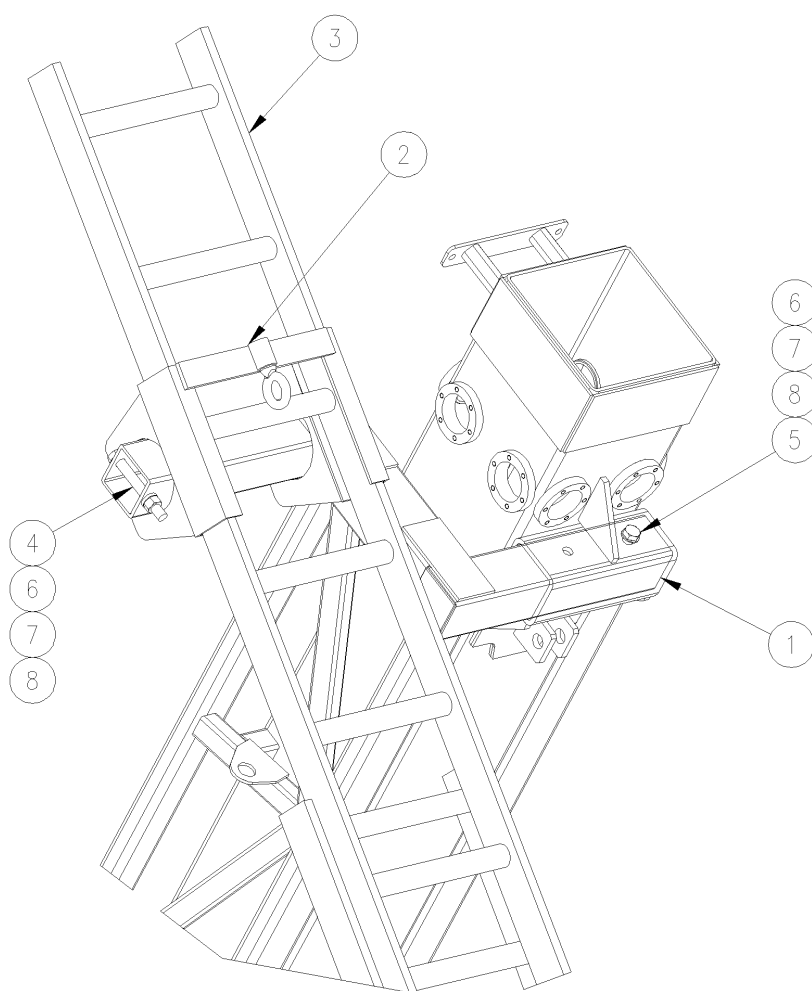


1	00	1	O-RING
2	00	2	BACK-UP WASHER
3	00	1	O-RING
4	00	1	BACK-UP WASHER
5	00	1	SNAP RING, 2" ROD
6	00	1	O-RING
7	00	1	RETAINING RING
8	00	1	OIL SEAL
9	00	1	ROD SEAL
10	00	1	O-RING
11	00	1	BACK-UP WASHER
12	00	2	WEAR RING
13	00	1	PISTON SEAL
14	00	1	O-RING
15	00	2	BACK-UP WASHER
16	00	1	WEAR RING
17	00	1	NYLON BALL
18	00	1	SET SCREW
19		1	

00) SUPPLIED IN REBUILD KIT 5000082. FOR LOCK VALVE SEAL KIT ORDER 3544256

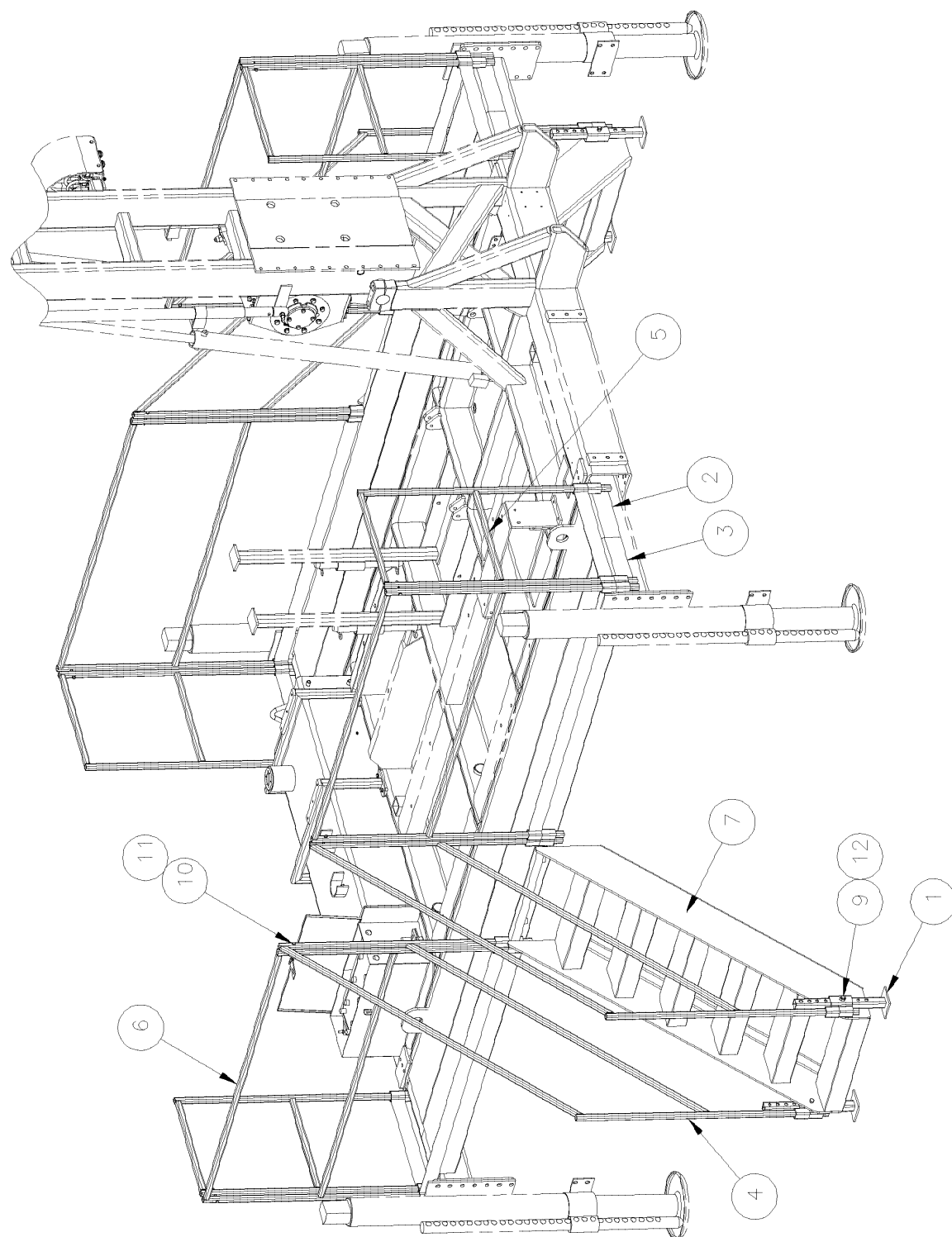


1	3547959	1	WELDMENT, RODRACK MAIN
2	3547960	2	WELDMENT, RODRACK ADJUSTMENT
3	3547649	1	PLATFORM
4	3547643	2	BAR, PLATFORM STABILIZER
5	61588	1	RAILING, PLATFORM
6	3547650	1	BRACE, RAILING
7	3543138	1	BRACKET, LADDER SLIDE
8	3541854	1	LADDER, EXTENSION (28') [28']
9	3547750	1	TUBE, RAILING
10	3547646	1	TUBE
11	3547737	1	SAFETY RAILING
12	3548106	2	FOOT, SUPPORT LEG
13	3547645	1	WELDMENT, RAIL MOUNT
14	3547641	1	WELDMENT, ROD SUPPORT
15	3548053	2	LEG, INNER TUBE
16	3548054	2	LEG, OUTER TUBE
17	104488	2	C/SCR, HH 3/4-10 UNC x 8"
18	44549	4	C/SCR, HH 5/8-11UNC x 2 LG
19	44560	2	C/SCR, HH 1/2 UNC x 3 1/2 LG
20	44578	1	C/SCR, HH 1/2-13 UNC x 4
21	44802	8	C/SCR, HH 5/8-11UNC x 3 GR8
22	44858	2	C/SCR, HH 3/8-16 UNC x 3-1/2 GR8
23	46054	3	C/SCR, HH 5/16-18UNC x 4 GR8
24	60417	2	C/SCR, HH 3/4UNC x 6-1/2 LG
25	3540630	4	C/SCR, HH 3/4 UNC x 7 LG
26	44519	3	L/WASHER, 5/16 SAE G8
27	44520	2	L/WASHER, 3/8 SAE G8
28	44521	3	L/WASHER, SPLIT SPRING 1/2"
29	44522	12	L/WASHER, SPLIT SPRING 5/8
30	44523	8	L/WASHER, SPLIT SPRING 3/4
31	44524	8	NUT, HEX 3/4-10 UNC
32	44552	3	NUT, HEX 5/16-18UNC
33	44526	12	NUT, HH 5/8-11 UNC
34	44525	3	NUT, HEX 1/2-13 UNC
35	44527	2	NUT, HEX 3/8-16UNC
36	44859	2	WASHER, FLAT 3/8 SAE G8
37	46091	2	WASHER, FLAT Dia3/4 (SAE)
38	3541238	1	BOLT, EYE
39	22351	4	PIN, CLEVIS 3/8
40	44615	4	PIN, COTTER 3/32 x 3/4
41	45656	1	PIN, QUICK RELEASE, Ø3/8



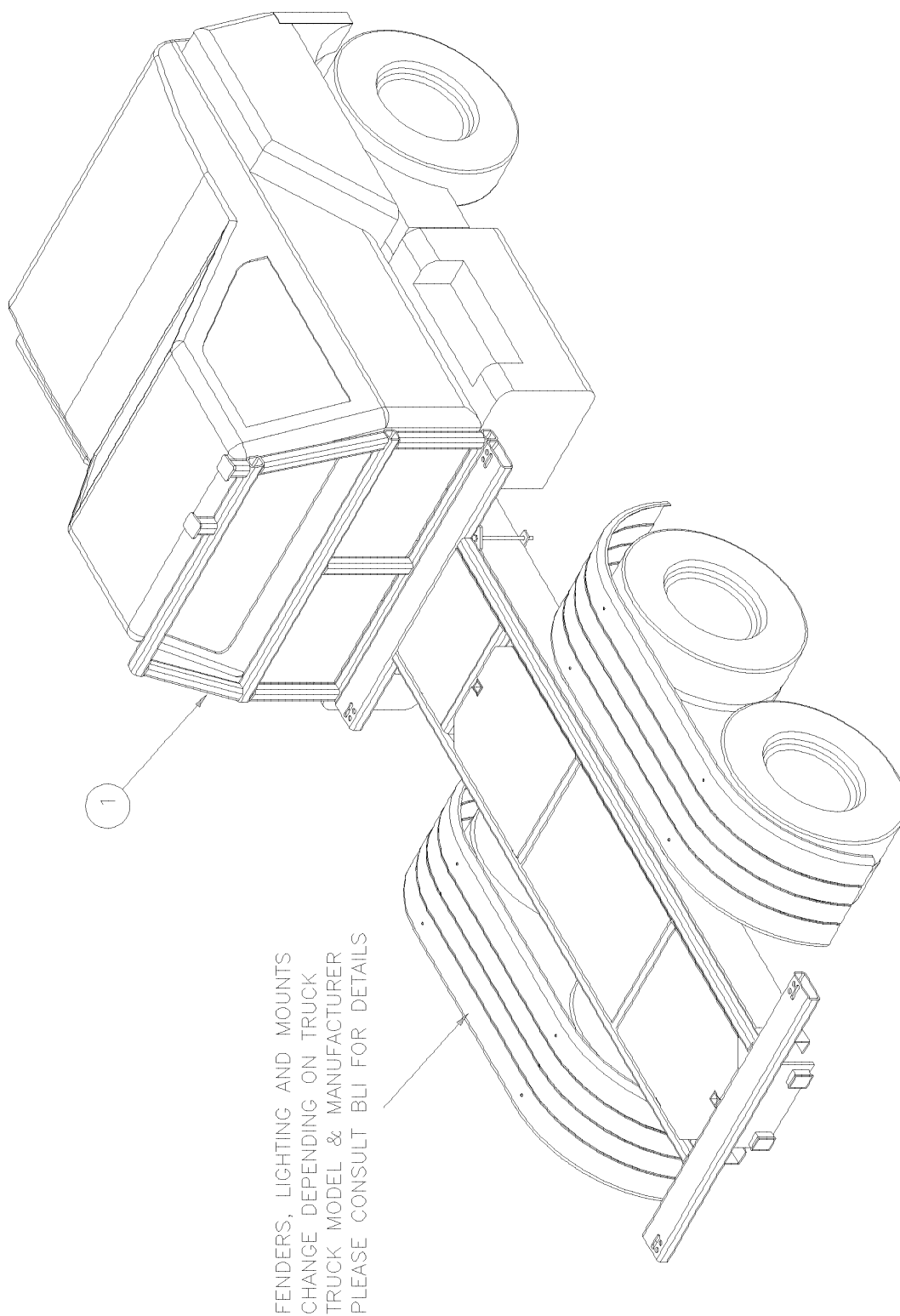
3547812 LADDER ACCESS TO CROWN BLOCK (NO ROD RACK)

1	3547753	1	SUPPORT, LADDER
2	3543138	1	BRACKET, LADDER SLIDE
3	3541854	1	LADDER, EXTENSION (28') [28']
4	39797	1	BOLT, HH 3/4-10 UNC x 6 - [L.C. #90214-426]
5	60417	1	C/SCR, HH 3/4UNC x 6-1/2 LG
6	44523	2	L/WASHER, SPLIT SPRING 3/4
7	44524	2	NUT, HEX 3/4-10 UNC
8	46091	2	WASHER, FLAT Dia3/4 (SAE)
9	3541238	1	BOLT, EYE



3548052 CATWALK/STAIRS (INCLUDES HANDRAILS & STAIRS)

1	3544114	4	SUPPORT LEG, STAIRS (DYNATEC)
2	3548022	2	WELDMENT CATWALK INNER
3	3548034	2	WELDMENT CATWALK OUTER
4	3548044	4	WELDMENT, STAIR HAND RAIL
5	3548041	4	WELDMENT, HANDRAIL END
6	3548043	4	WELDMENT, HANDRAIL SIDE
7	3548038	2	WELDMENT, STAIRS
8	44512	6	C/SCR, HH 3/8 UNC x 1 LG
9	44602	4	C/SCR, HH 1/2-13 UNC x 3 - [L.C. #90214-256]
10	44649	8	C/SCR, HH 1/4-20 UNC X 3
11	44567	8	L/NUT, 1/4-20UNC
12	44525	4	NUT, HEX 1/2-13 UNC
13	44527	6	NUT, HEX 3/8-16UNC



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