ASSEMBLY No.	DESCRIPTION	PAGE		
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3547421	BASIC LF90D MODULE	4		
3547160	BASE FRAME MODULE			
3547165	BASE FRAME ASSEMBLY	8		
3547167	DUMP FRAME ASSEMBLY	10		
3546537	WINCH, PLANETARY 16000 LB	12		
3546537_M	Service Manual, 16000 lb Winch [BRADEN]			
3548337	CYLINDER LH, MAST RAISE	18		
3547168	FUEL TANK ASSEMBLY	20		
3547169	BATTERY GROUP	22		
3548338	CYLINDER RH, MAST RAISE	24		
3547161	HYDRUALIC TANK ASSEMBLY			
3547162	PUMP DRIVE MODULE			
3547164	MAST MODULE			
3547183	LOWER MAST ASSEMBLY			
3547185	UPPER MAST ASSEMBLY	40		
3547768	FOOT PLATE ASSEMBLY	42		
3547172	CROWN BLOCK ASSEMBLY	44		
3547734	SLIDE ASSEMBLY			
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3547756	MANIFOLD ASSEMBLY D03			
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3546014	SWITCH ASSEMBLY PRE-TORQUE KIT			
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3548256	BATTERY WIRING GROUP			
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18185	DISCHARGE ASM, PUMP #20 NPT CONNECTIONS						
3544479	ACCUMULATOR, 1 QUART						
3670446	PUMP MODULE, 420 DIESEL POWERED [FMC L09]						
27627	INTAKE ASSEMBLY, SUCTION						
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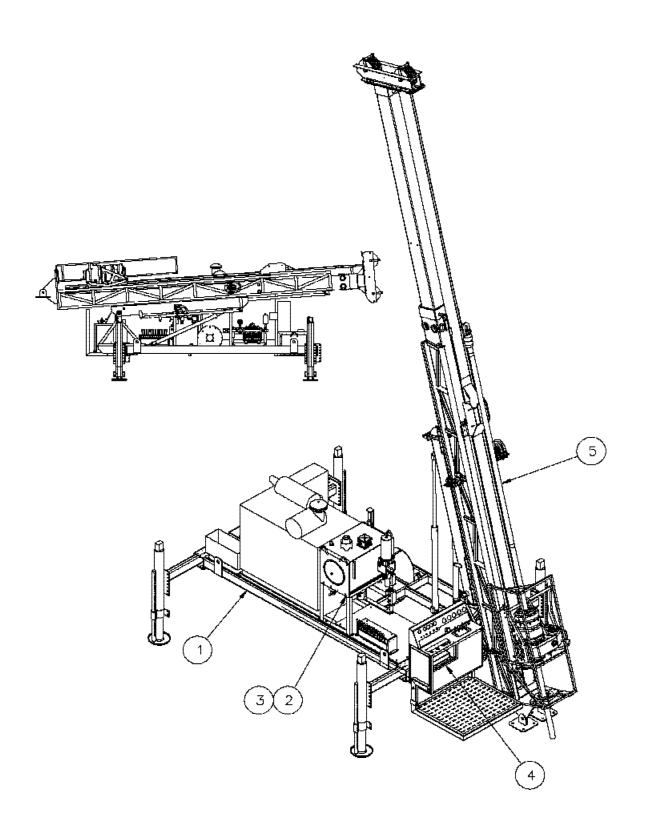








REF NO	REM PART NUMBER	QTY	DESCRIPTION
	05.47.404		DAGIG F20D MODULE (D /)
1	3547421	1	BASIC LF90D MODULE (Page 4)
2	3547422	1	ENGINE MODULE, CUMMINS (Page 122)
3	3547742	1	PQ HEAD MODULE (Page 128)
4	3548248	1	ROD CLAMP MODULE (Page 150)
5	3544485	1	HOIST ASM, WIRELINE LF70/LF90
6	3547029	1	HYDRAULIC POWERED FLUID PUMP (W11) (Page 164)
7	3670446	1	PUMP MODULE, 420 DIESEL POWERED [FMC L09]
8	3547418	1	MANIFOLD, FLUID CIRCULATION (Page 188)
9	102306	1	MUD MIXER ASSEMBLY, [Hydraulic]
10	3547654	1	HYDRAULIC OUTRIGGERS & JACKS (INCLUDES CONTROLS) (Page
11	3547956	1	PLATFORM, ROD RACK (Page 196)
12	3547812	1	LADDER ACCESS TO CROWN BLOCK (NO ROD RACK) (Page 198)
13	3548052	1	CATWALK/STAIRS (INCLUDES HANDRAILS & STAIRS) (Page 200)
14	3548313	1	TRUCK MOUNTING GROUP (Page 202)
15	3548319	1	SHIPPING SKID GROUP
16	3548320	1	COLD WEATHER GROUP
17	3548321	1	HOT WEATHER GROUP
18	3548218	1	Spare Parts Kit, Hydraulic Module
19	3544481	1	KIT, CHAR-LYNN MOTOR SEAL (Single speed fluid pump)
21	3546941	1	Spares Kit, 16K Braden Winch (Minor)
22	3547239	1	Spare Part Kit, Cummins Filters (Air, Oil)
23	3547240	1	Spare Part Kit, Cummins (Minor spares) (Page 204)
25	102630	1	Spare Parts Kit, Fluid Circulation Grp [FMC L09]
26	102631	1	Spare Parts Kit, Fluid Circulation Grp [FMC W11]
27	3543129	1	Liner Kit, Water Pump [FMC W11]
28	102633	1	Spare Parts Kit, Mud Mixer
29	306085	1	Spare Parts Kit, Rod Clamp Group
30	3547263	1	Spare Parts Kit, PQ Head
31	3541832	1	Seal Kit, Rotation Motor
32	3543526	1	SEAL KIT, PQ CHUCK
33	3541060	1	Overhaul Manual, Transmission [FUNK HMD 127000]
34	3544255	1	Spare Parts Kit, Level Jack Lock Valve



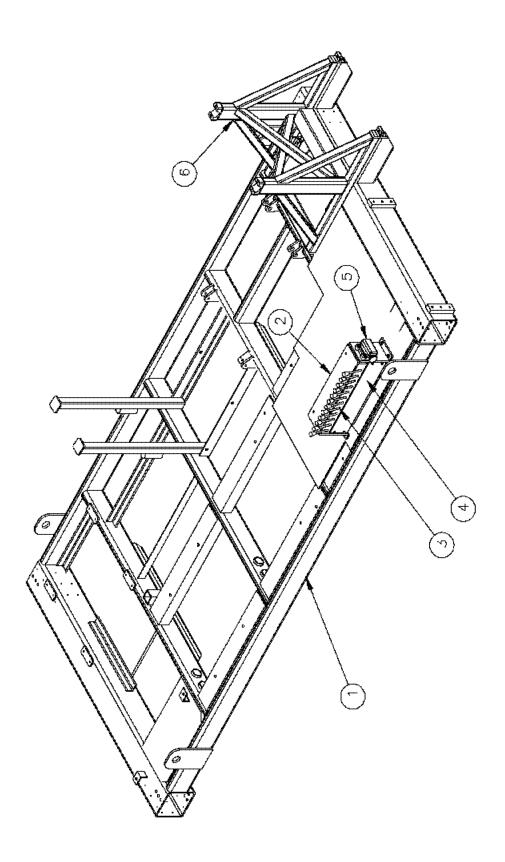


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547160	1	BASE FRAME MODULE (Page 6)
2		3547161	1	HYDRUALIC TANK ASSEMBLY (Page 26)
3		3547162	1	PUMP DRIVE MODULE (Page 34)
5		3547164	1	MAST MODULE (Page 36)
6		3547163	1	CONSOLE MODULE (Page 50)
7		3548268	1	COOLER MODULE (Page 72)
8		3547819	1	PLUMBING GROUP (Page 78)





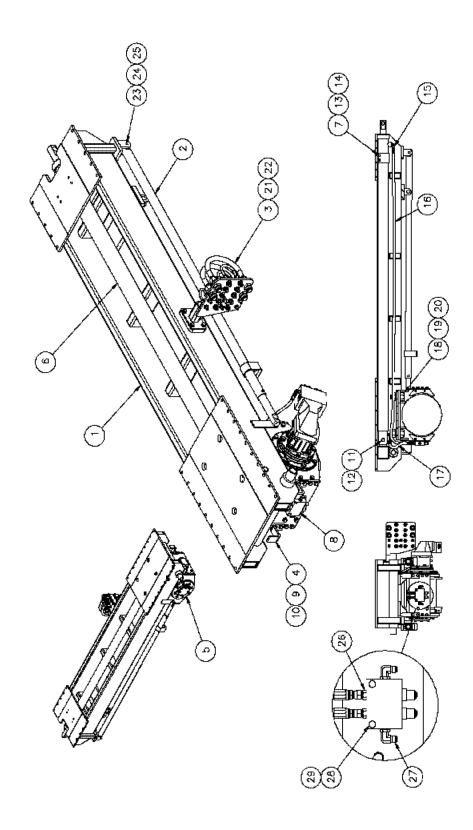
REF NO	REM	PART NUMBE	R QTY	DESCRIPTION
1		3547165	1	BASE FRAME ASSEMBLY (Page 8)
2		3547167	1	DUMP FRAME ASSEMBLY (Page 10)
3		3548337	1	CYLINDER LH, MAST RAISE (Page 18)
4			2	PIN
5			2	PIN
6			8	SNAP RING
7		3547168	1	FUEL TANK ASSEMBLY (Page 20)
8		3547170	2	PIN, MAST LOCKING
9		36801	4	PIN, COTTER
10		100265	2	CAP, MAST MOUNTING SWIVEL
11		102218	4	C/SCR, HH 3/4-16 UNF x 2-3/4"
12		102956	4	LOCKWASHER, Dia3/4 (GR.8) [Gr.8]
13		3547169	1	BATTERY GROUP (Page 22)
14		3547530	2	MOUNT, AUXILLIARY COOLER
15			4	C/SCR
16			4	LOCKWASHER
17			1	STRIP, RUBBER
18		3548338	1	CYLINDER RH, MAST RAISE (Page 24)



3547165 BASE FRAME ASSEMBLY

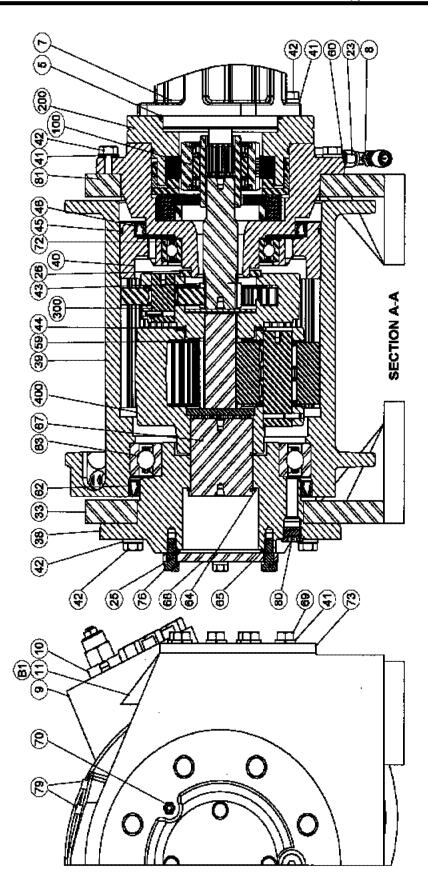


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547166	1	BASE FRAME WELDMENT
2		3547212	1	MOUNT, VALVE 12 BANK
3			1	COVER



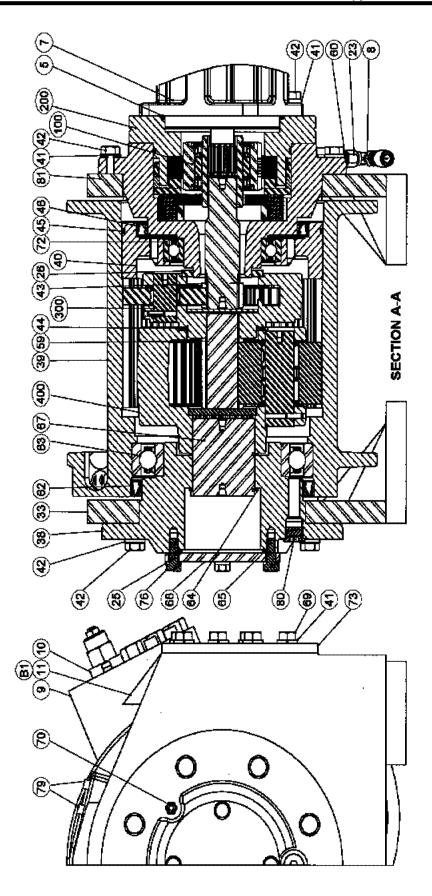


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547216	1	DUMP FRAME WELDMENT
2		3545328	2	SUPPORT GRP, MAST LEG
3		3547710	1	ASSEMBLY, HOSE HANGER
4		3547704	1	HOSE, HANGER
5		3546537	1	WINCH, PLANETARY 16000 LB
6		3547042	1	DUMP CYLINDER
7		3547523	1	SUPPORT, CYLINDER
8			1	C/B VALVE ASSEMBLY
9			4	C/SCR
10			4	LOCK WASHER
11			1	PIN
12			2	SNAP-RING
13			4	C/SCR
14			4	LOCK WASHER
15			5	ADAPTER 6 ORB x 6 JIC x 90°
16			1	HOSE
17			1	HOSE
18			4	C/SCR
19			4	LOCK WASHER
20			4	NUT
21			4	C/SCR
22			4	LOCK WASHER
23			4	C/SCR
24			4	WASHER
25			4	NUT
26			2	ADAPTER 6 ORB x 6 JIC
27			2	C/SCR
28			2	LOCK WASHER





REF NO	REM	PART NUMBER	QTY	DESCRIPTION
-1		76381	1	NAMEPLATE, GH5/PD5 WINCH
-2		11842	4	SCREW, DRIVE
-3		25131	1	ELBOW / O-RING
-4		12465	2	O-RING
-5		75288	2	PLUG, SHIPPING
5		10330	1	O-RING
7		102307	1	MOTOR, HYD
8			1	HOSE ASSY [25749]
9		105786	1	COUNTERBALANCE VALVE
10		27664	8	CAPSCREW
11		105827	4	GUARD, CABLE
12		25614	1	SHAFT, PRIMARY PLANET GEAR
23		26140	1	SWIVEL NUT, 90 deg ELBOW
25		27152	4	LOCKWASHER
26		27375	1	SPACER
32		100028	1	MOTOR SUPPORT
33		105774	1	SUPPORT END PLATE
38		105770	1	BEARING SUPPORT
39		105769	1	CABLE DRUM
40		26480	1	CABLE DRUM CLOSURE
41		11026	44	LOCKWASHER
42		104322	24	CAPSCREW
43		26479	1	GEAR, PRIMARY SUN
44		40129	1	WASHER, THRUST
45		76208	1	ORING
46		22818	1	SEAL, OIL
59		100854	1	GEAR, SUN OUTPUT
60		25864	1	ADAPTER
62		10427	1	SEAL
63		24487	1	BEARING, BALL
64		70575	2	RETAINING RING, EXTERNAL
65		21283	1	O-RING
67		105772	1	TORQUE SHAFT
68		101409	1	COVER GEAR SIDE, CLUTCH SHAFT
69		104174	20	CAPSCREW
70		18062	1	RELIEF VALVE, 7.5-15 PSI
72		24110	1	BEARING, BALL
73		105784	2	TIE PLATE
76		104309	4	CAPSCREW
79		31223	2	16056-620 SCREW, SOC SET UN
80		32411	1	16496-8 PLUG, O-RING FLUSH

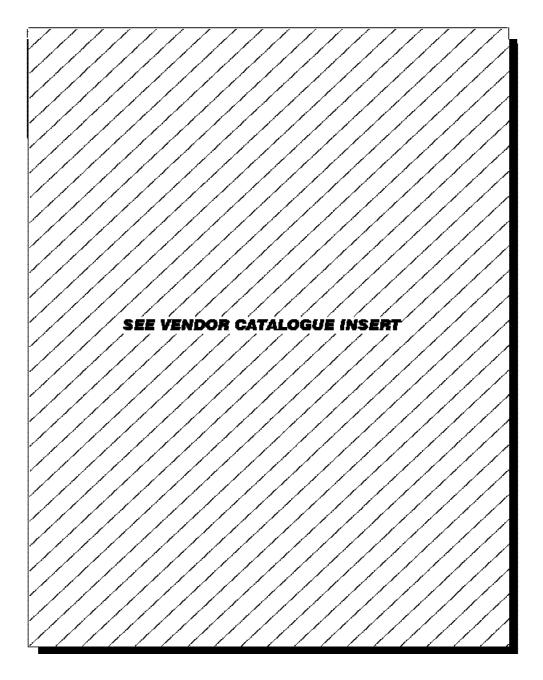




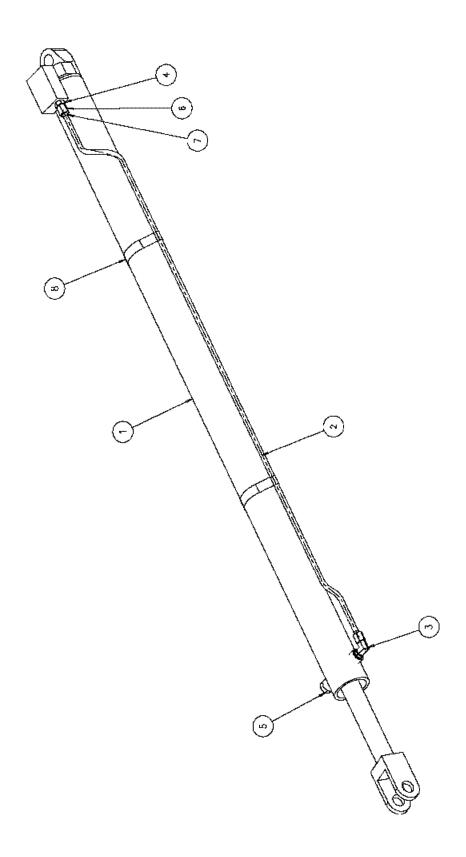
REF NO	REM	PART NUMBE	ER QTY	DESCRIPTION
81		105773	1	MOTOR END PLATE
100		81716	1	CLUTCH ASSY, SPRAG (C SPL SHAFT)
200		83363	1	BRAKE CYLINDER SUB-ASSY 4BOL
300		82342	1	PRIMARY PLANET CARRIER ASSY
400		81845	1	PLANET CARRIER ASSY
500	V	3546537_M	REF	Service Manual, 16000 lb Winch [BRADEN] (Page 16)

V) See VENDOR literature.



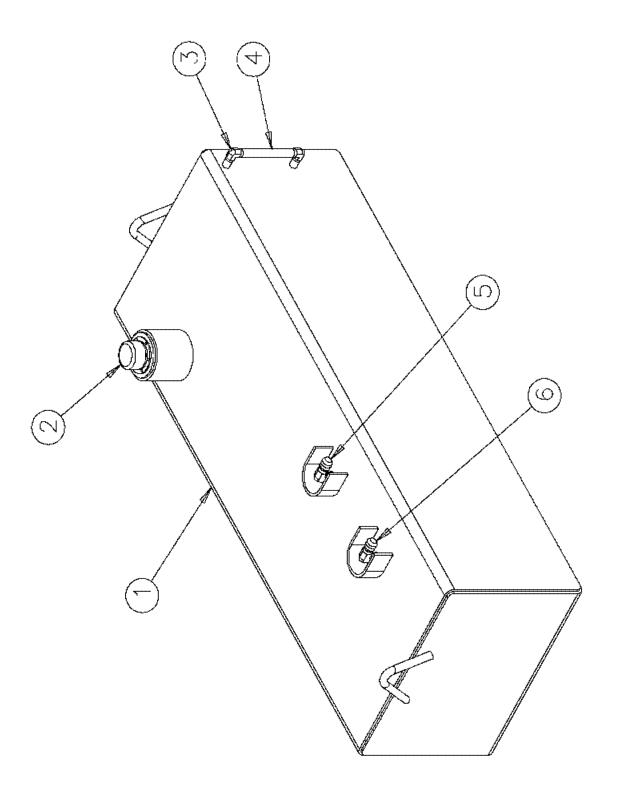






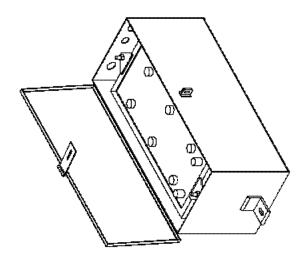


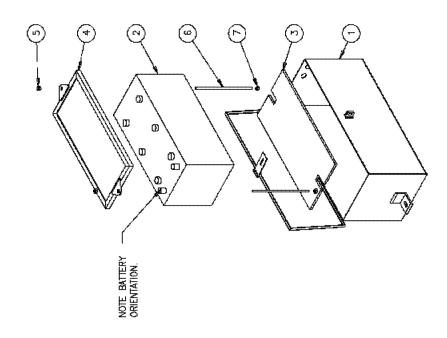
REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547601	1	CYLINDER, MAST RAISING
2		3548271	1	TUBE, LH RIGID
3		36478	1	ADAP, HYD #6 JIC x #6 ORB x 90Deg
4		33660	1	ADAP, HYD 6JIC x 6 ORB
5		44195	1	ADAP, HYD 6 ORB PLUG
6		3548403	2	NUT, 3/8 JIC TUBE FITTING
7		3548404	2	SLEEVE, 3/8 JIC TUBE FITTING
8		3548405	2	CLAMP, 4" ID BAND





REF NO	REM	PART NUMBER	QTY	DESCRIPTION
		05.4700.4		WEI DAMENT FILE TANK
1		3547221	1	WELDMENT, FUEL TANK
2		100290	1	CAP, FILLER BREATHER [Fuel Tank]
3		100996	2	FITTING, HOSE END
4		102017	1	HOSE, CLEAR, 3/8 ID [Ï3/8]
5			1	ADAPTER
6			1	ADAPTER





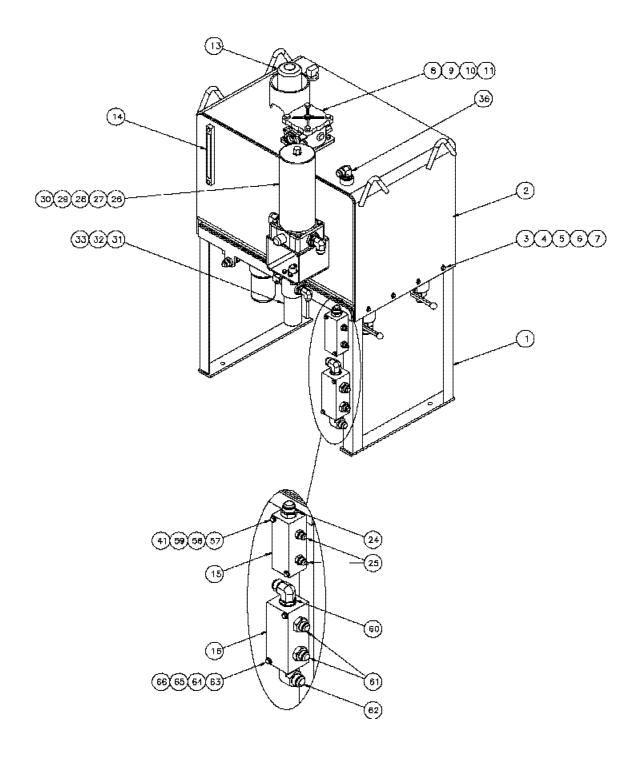


REF NO	REM	PART NUMBER	RQTY	DESCRIPTION
1		3547222	1	BATTERY BOX
2		21875	1	BATTERY, 4D [Douglas]
3		104375	1	INSERT, CHIP-BOARD, BATTERY BOX [Battery Box]
4		104291	1	RETAINER, BATTERY
5		44527	2	NUT, HEX 3/8-16UNC
6		104294	2	ROD, THD, 3/8-16 UNC [3/8-16 UNC]
7		44711	2	NUT, JAM, 3/8-16 UNC



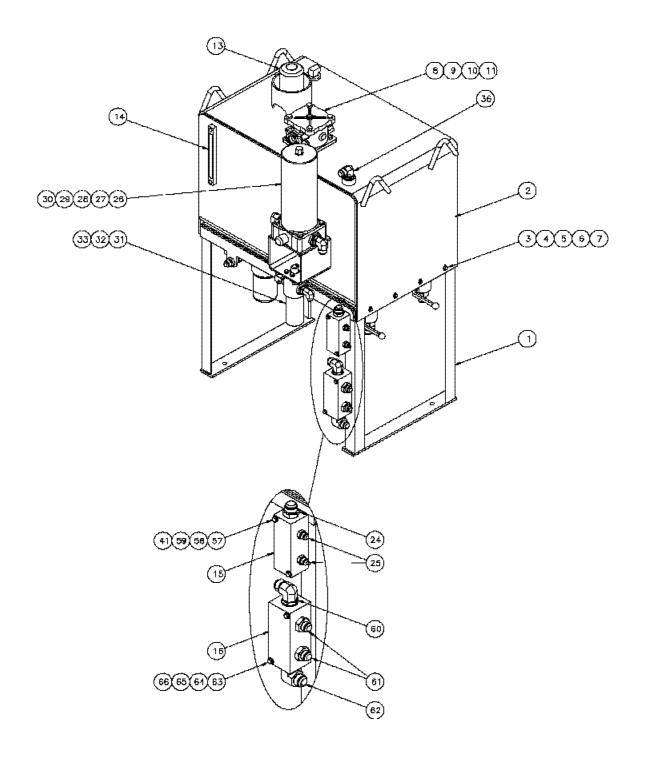


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547601	1	CYLINDER, MAST RAISING
2		36478	1	ADAP, HYD #6 JIC x #6 ORB x 90Deg
3		33660	1	ADAP, HYD 6JIC x 6 ORB
4		44195	1	ADAP, HYD 6 ORB PLUG
5		3548403	2	NUT, 3/8 JIC TUBE FITTING
6		3548404	2	SLEEVE, 3/8 JIC TUBE FITTING
7		3548405	2	CLAMP, 4" ID BAND
8		3548269	1	TUBE, RH RIGID



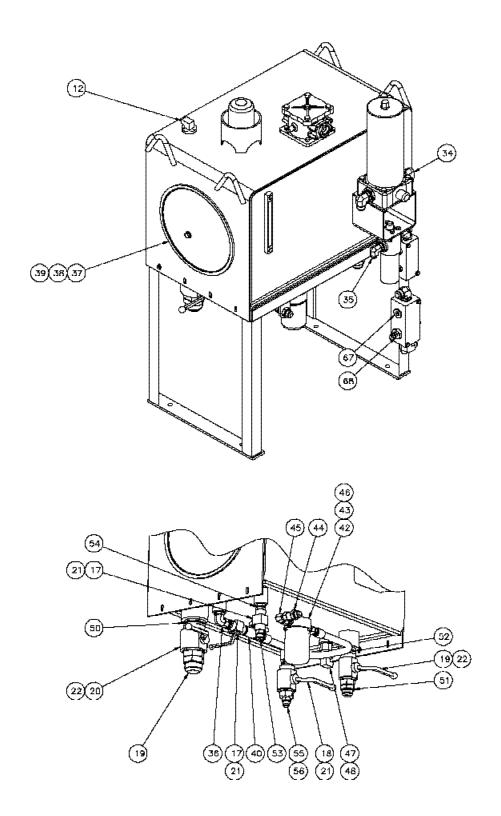


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547171	1	TANK STAND WELDMENT
2		3547453	1	HYDRAULIC TANK WELDMENT
3		3544315	96"	STRIP, RUBBER 1/2x1-1/2x33
4		44536	8	C/SCR, HH 3/8-16UNC x 1-1/2
5		44611	8	WASHER, FLAT 3/8 ID
6		44520	8	WASHER, 3/8 ID LOCK
7		44527	8	NUT, HEX 3/8-16UNC
8		3547602	1	FILTER, RETURN
9		3547603	4	WASHER, SEALING
10			4	C/SCR
11			4	NUT
12		3547604	1	GAUGE, FLOAT LEVEL
13		3547605	1	FILTER, BREATHER
14		3543274	1	GAUGE, FLUID LEVEL 10"
15		3547606	1	MANIFOLD, RETURN
16		3547607	1	MANIFOLD, RETURN
17		3547618	2	VALVE, BALL O-RING 3/4"
18		3546945	1	VALVE, BALL O-RING 1"
19		3547619	1	VALVE, BALL O-RING 1 1/4"
20		3547620	1	VALVE, BALL O-RING 2"
21		3547636	3	LOCK, HANDLE 3/4" & 1"
22		3547637	2	LOCK, HANDLE 1 1/4" & 2"
23			1	PLUG, O-RING
24			1	ADAPTER
25			2	ADAPTER
26		3547608	1	FILTER, HIGH PRESSURE
27			4	C/SCR
28			4	LOCKWASHER
29			4	FLATWASHER
30			4	NUT
31		3547609	1	FILTER, MEDIUM PRESSURE
32			4	LOCKWASHER
33			4	C/SCR
34			2	ADAPTER
35			2	ADAPTER
36			1	ADAPTER, 12 ORB (M) x 12 JIC (F)
37		104245	1	COVER, END RESERVOIR
38		3544202	1	BAR, COVER X
39		47843	1	C/SCR HH 5/8-11NC x 3-1/4 LG
40		3544141	1	VALVE, CHECK INLINE 12JIC
41		05.470.40	2	NUT
42		3547610	1	FILTER, SPIN-ON



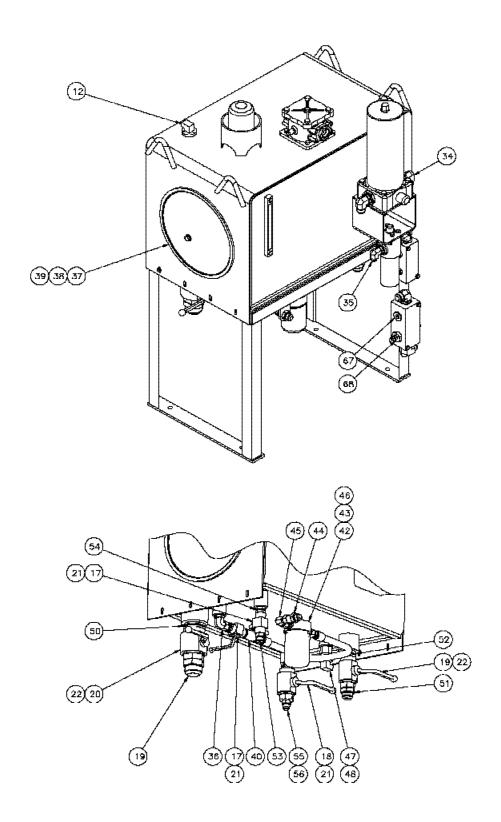


REF NO	REM PART NUMBER	QTY	DESCRIPTION
43		1	HOSE
44		1	ADAPTER
45		1	ADAPTER, B/HD
46		1	ADAPTER
47	3547651	1	SWITCH, TEMPERATURE 160°F
48		1	ADAPTER
49		1	ADAPTER
50		1	ADAPTER
51		1	ADAPTER
52		1	ADAPTER
53		1	ADAPTER
54		1	ADAPTER
55		1	ADAPTER
56		1	ADAPTER
57		2	C/SCR
58		2	FLATWASHER
59		2	LOCKWASHER
60		1	ADAPTER
61		1	ADAPTER
62		1	ADAPTER
63		2	C/SCR
64		2	FLATWASHER
65		2	LOCKWASHER
66		2	NUT
67		1	ADAPTER
68		1	PLUG



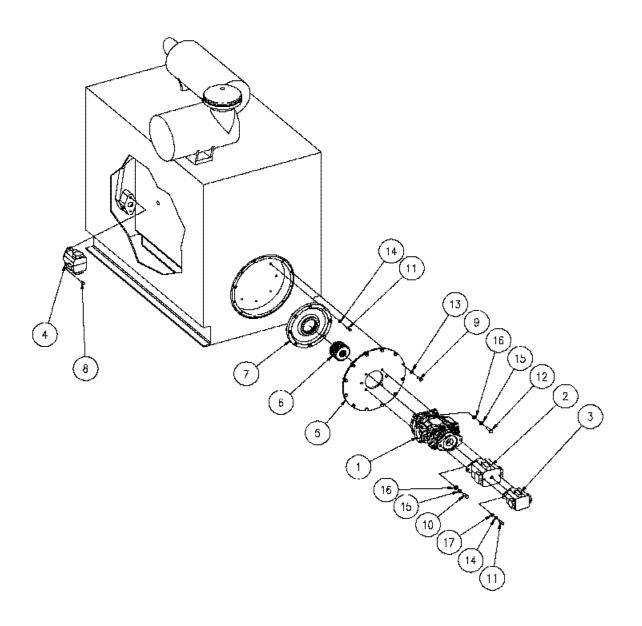


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
		05.47.47.4		TANK OTAND WEI DAENT
1		3547171	1	TANK STAND WELDMENT
2		3547453	1	HYDRAULIC TANK WELDMENT
3		3544315	96"	STRIP, RUBBER 1/2x1-1/2x33
4		44536	8	C/SCR, HH 3/8-16UNC x 1-1/2
5		44611	8	WASHER, FLAT 3/8 ID
6		44520	8	WASHER, 3/8 ID LOCK
7		44527	8	NUT, HEX 3/8-16UNC
8		3547602	1	FILTER, RETURN
9		3547603	4	WASHER, SEALING
10			4	C/SCR
11		05.4700.4	4	NUT
12		3547604	1	GAUGE, FLOAT LEVEL
13		3547605	1	FILTER, BREATHER
14		3543274	1	GAUGE, FLUID LEVEL 10"
15		3547606	1	MANIFOLD, RETURN
16		3547607	1	MANIFOLD, RETURN
17		3547618	2	VALVE, BALL O-RING 3/4"
18		3546945	1	VALVE, BALL O-RING 1"
19		3547619	1	VALVE, BALL O-RING 1 1/4"
20		3547620	1	VALVE, BALL O-RING 2"
21		3547636	3	LOCK, HANDLE 3/4" & 1"
22		3547637	2	LOCK, HANDLE 1 1/4" & 2"
23			1	PLUG, O-RING
24			1	ADAPTER
25		05.47000	2	ADAPTER
26		3547608	1	FILTER, HIGH PRESSURE
27			4	C/SCR
28			4	LOCKWASHER
29			4	FLATWASHER
30			4	NUT
31		3547609	1	FILTER, MEDIUM PRESSURE
32			4	LOCKWASHER
33			4	C/SCR
34			2	ADAPTER
35			2	ADAPTER
36			1	ADAPTER, 12 ORB (M) x 12 JIC (F)
37		104245	1	COVER, END RESERVOIR
38		3544202	1	BAR, COVER X
39		47843	1	C/SCR HH 5/8-11NC x 3-1/4 LG
40		3544141	1	VALVE, CHECK INLINE 12JIC
41		a · -	2	NUT
42		3547610	1	FILTER, SPIN-ON



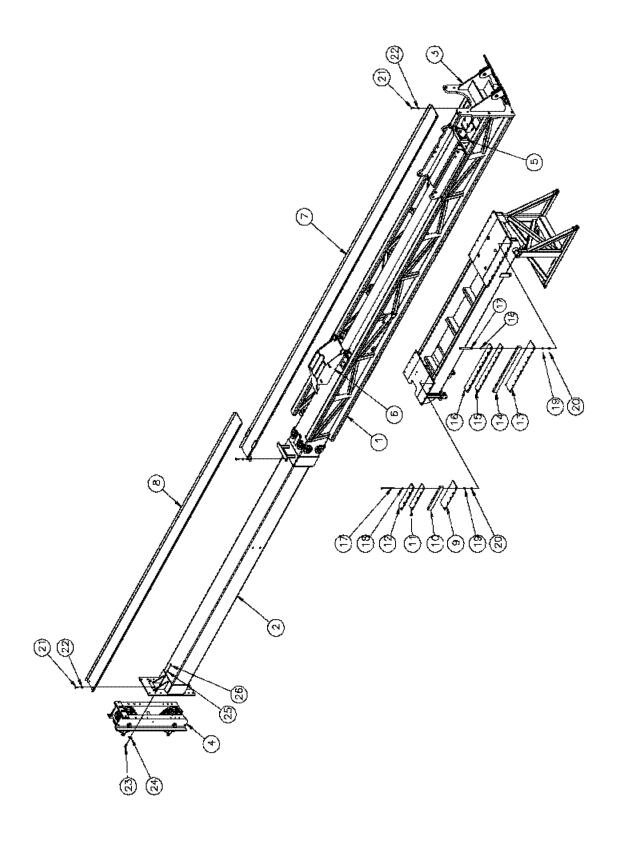


REF NO	REM PA	ART NUMBER	QTY	DESCRIPTION
43			1	HOSE
44			1	ADAPTER
45			1	ADAPTER, B/HD
46			1	ADAPTER
47		3547651	1	SWITCH, TEMPERATURE 160°F
48			1	ADAPTER
49			1	ADAPTER
50			1	ADAPTER
51			1	ADAPTER
52			1	ADAPTER
53			1	ADAPTER
54			1	ADAPTER
55			1	ADAPTER
56			1	ADAPTER
57			2	C/SCR
58			2	FLATWASHER
59			2	LOCKWASHER
60			1	ADAPTER
61			1	ADAPTER
62			1	ADAPTER
63			2	C/SCR
64			2	FLATWASHER
65			2	LOCKWASHER
66			2	NUT
67			1	ADAPTER
68			1	PLUG



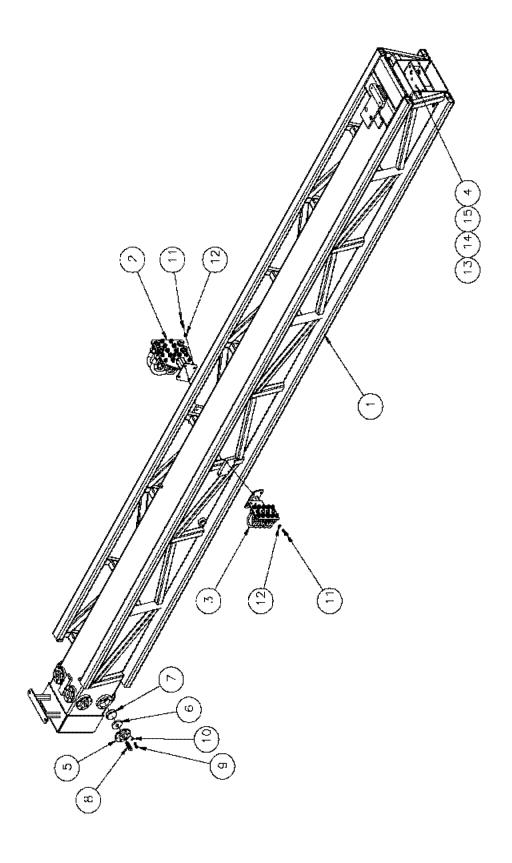


REF NO	REM PART NU	MBER QTY	DESCRIPTION	
1	3548309	9 1	PUMP, P3 PRIMARY	
2	3544140) 1	PUMP, SECONDARY PVP33	
3	100184	1 1	PUMP, AUXILIARY 70122 [Secondary]	
4	3548229	9 1	PUMP, AUXILIARY	
5	3544383	3 1	PLATE, PUMP MOUNTING	
6	3544526	5 1	HUB, SAE 'C' SPLINE	
7	100293	3 1	COUPLING, FLYWHEEL	
8	68884	1 2	C/SCR, HH M10x1.5x20 GR10.9	
9	68886	5 11	C/SCR, HH M10x1.5x30GR10.9	
10	44530) 2	C/SCR, HH 1/2-13UNC x 1 1/4	
11	44536	6 10	C/SCR, HH 3/8-16UNC x 1-1/2	
12	44640) 4	C/SCR, HH 1/2-13 UNC x 1 3/4	
13	93128	3 12	L/WASHER, SPLIT SPING, M10	
14	44520) 10	WASHER, 3/8 ID LOCK	
15	4452	1 6	WASHER, LOCK 1/2 ID	
16	4462	1 6	WASHER, FLAT 1/2"	
17	44859	9 2	WASHER, FLAT GR 8 3/8	



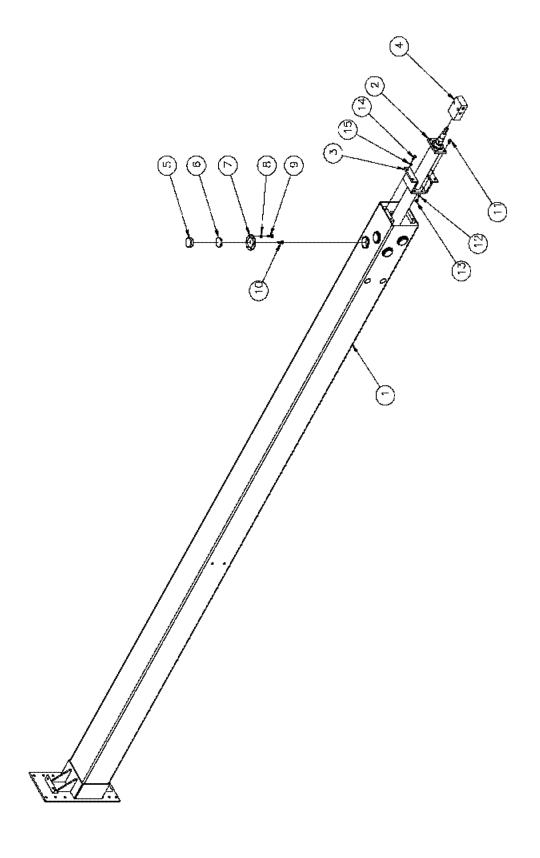


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547183	1	LOWER MAST ASSEMBLY (Page 38)
2		3547185	1	UPPER MAST ASSEMBLY (Page 40)
3		3547768	1	FOOT PLATE ASSEMBLY (Page 42)
4		3547172	1	CROWN BLOCK ASSEMBLY (Page 44)
5		3547734	1	SLIDE ASSEMBLY (Page 46)
6		3547770	1	ROD GUIDE ASSEMBLY
7		3547517	1	ROD TRAY, 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



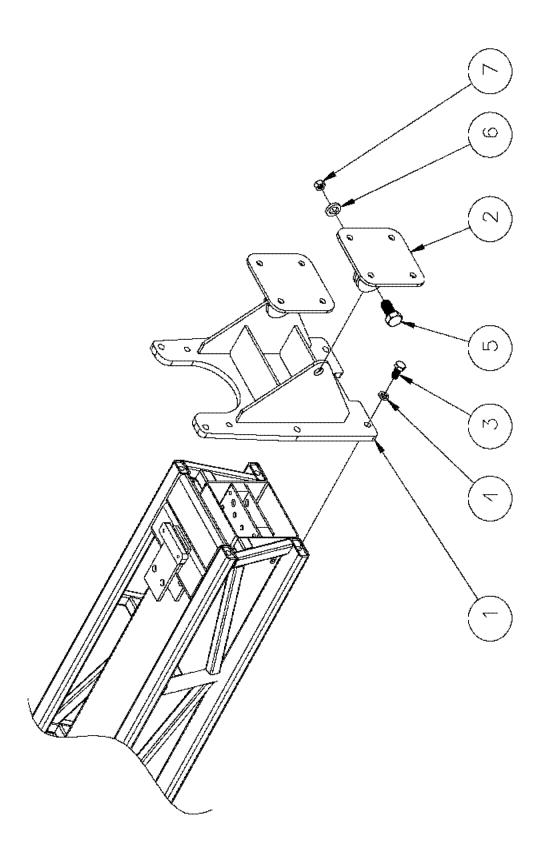


REF NO	REM	PART NUMBER	RQTY	DESCRIPTION
1		3547191	1	LOWER MAST WELDMENT
2		3547706	1	ASSEMBLY, HOSE HANGER
3		3547709	1	ASSEMBLY, HOSE HANGER
4		3547195	2	MOUNT, EXTEND CYLINDER
5		3547194	8	COVER, PAD HOUSING
6		3547193	8	PLATE, PAD BACKUP
7		3547192	8	PAD, WEAR
8			8	SET SCREW
9			48	C/SCR
10			48	LOCK WASHER
11			8	C/SCR
12			8	LOCK WASHER
13			4	C/SCR
14			4	LOCK WASHER
15			4	NUT



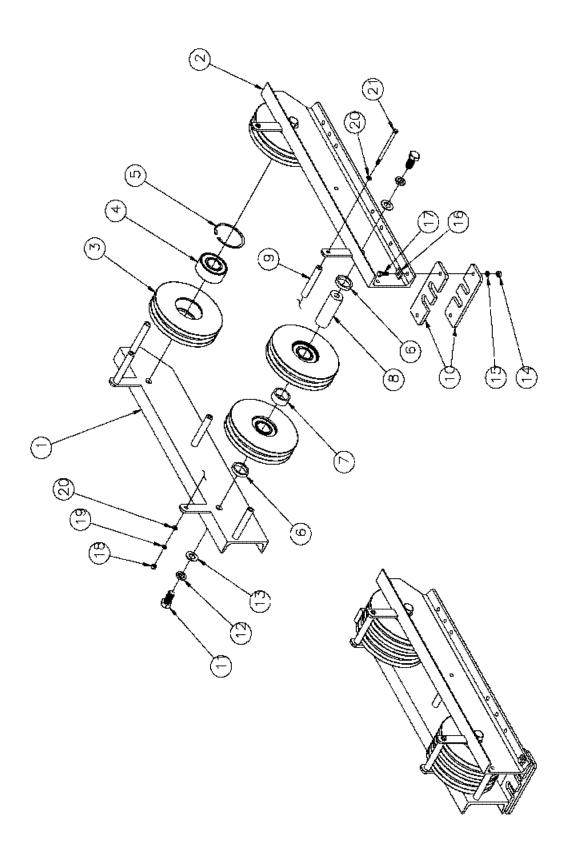


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547196	1	WELDMENT, UPPER MAST
2		3547197	1	MOUNT, EXTEND CYLINDER
3		3540675	1	CYLINDER, 132" STROKE
4		100176	1	MANIFOLD, FEED CYLINDER
5		3547192	8	PAD, WEAR
6		3547193	8	PLATE, PAD BACKUP
7		3547194	8	COVER, PAD HOUSING
8			48	C/SCR
9			48	LOCK WASHER
10			8	SET SCREW
11			4	C/SCR
12			4	LOCK WASHER
13			4	NUT



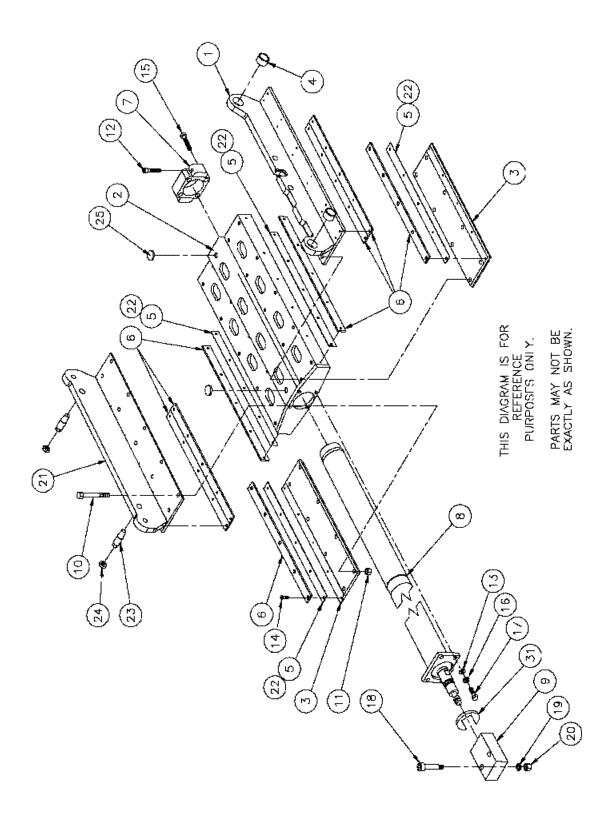


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547187	1	FOOT PLATE WELDMENT
2		3547519	2	FOOT, LOWER MAST
3			4	C/SCR
4			4	LOCKWASHER
5			2	C/SCR
6			2	LOCKWASHER
7			2	NUT



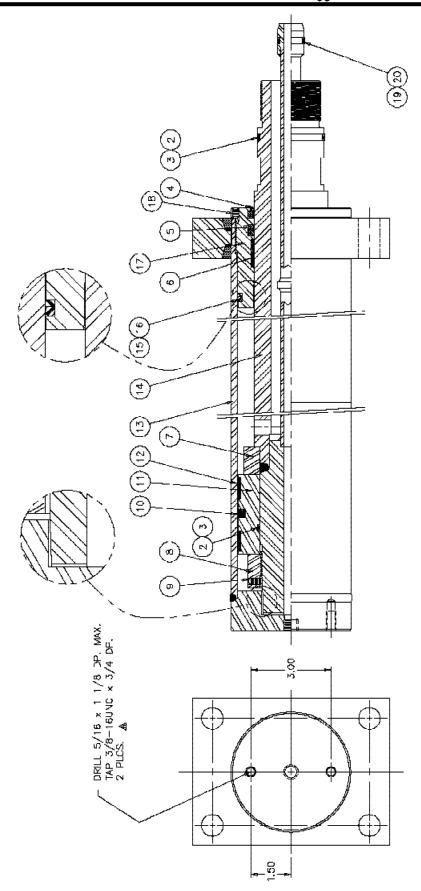


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547228	1	WELDMENT, SIDE LH
2		3547229	1	WELDMENT, SIDE RH
3		3547230	4	WHEEL, SHEAVE
4		3547231	4	BEARING
5		3548179	4	SNAP-RING
6		3547234	4	SPACER, SHORT
7		3547233	2	SPACER, LONG
8		3547232	2	SHAFT, AXLE
9		3547235	5	SPACER TUBE
10		3547522	2	GUIDE, CABLE
11		3540276	4	C/SCR 1 UNF x 2" Lg.
12		44575	4	WASHER, LOCK 1" ID
13		19464	4	WASHER, FLAT 1" ID
14		44525	2	NUT, HEX 1/2-13UNC
15		44521	2	WASHER, LOCK 1/2 ID
16		568511	2	WASHER, BEVEL
17		44651	2	C/SCR, HH 1/2-13UNC x 2 1/4"
18		44525	5	NUT, HEX 1/2-13UNC
19		44521	5	WASHER, LOCK 1/2 ID



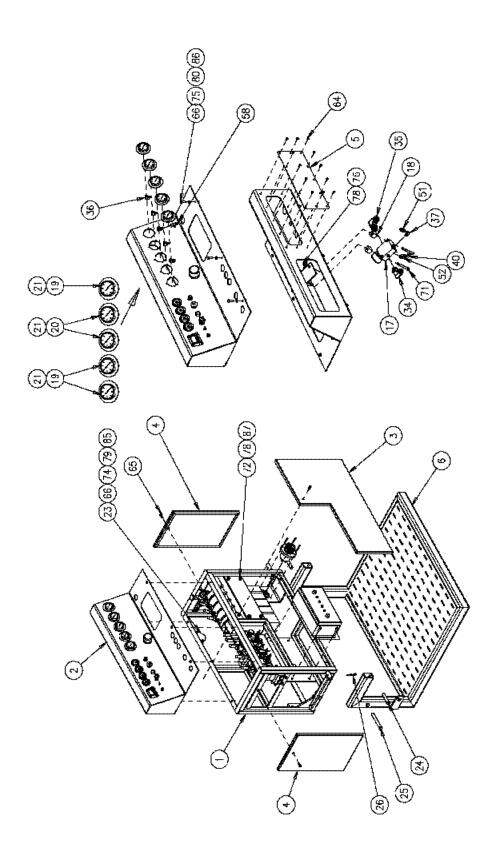


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547512	1	MOUNT, RIGHT HAND
2		3546156	1	MIDBODY, SLIDE FRAME
3		3546459	2	BOTTOM PLATE
4		3547394	2	BUSHING
5		3546460	4	SHIM, 28 Ga. (.018")
6		3547733	8	WEAR PAD
7		3546465	1	SUPPORT, FEED CYLINDER
8		3546100	1	CYLINDER, FEED 132" STROKE [4" Bore, 2 3/4" Rod]
9		3546463	1	MANIFOLD, FEED CYLINDER
10		44578	20	C/SCR, HH 1/2-13UNC x 4"
11		101061	20	LOCKNUT, 1/2-13UNC STOVER [Stover]
12		46102	2	C/SCR SH 1/2-13 NC x 1-3/4Lg.
13		64729	4	FLATWASHER, 1/2 ID (HARDENED)
14		102166	48	C/SCR, FLAT HD. 1/4-20 x 1/2"
15		47568	4	C/SCR, SOC HD 1/2-13 x 2" LG.
16		102955	4	LOCKWASHER, 1/2" ID
17		64697	4	C/SCR, HH 1/2-13 x 1 1/2" LG.
18		35730	2	BOLT, SHOULDER 3/4 x 3" LG.
19		44575	2	WASHER, LOCK 1" ID
20		44573	2	NUT, 1"-8UNC HEX
21		3547513	1	MOUNT, LEFT HAND
22		3546461	4	SHIM, 30 Ga. (.015")
23		3547392	2	TAPERED PIN
24		3547735	2	NUT, JAM 1" UNF
25		100879	2	PAD, WEAR



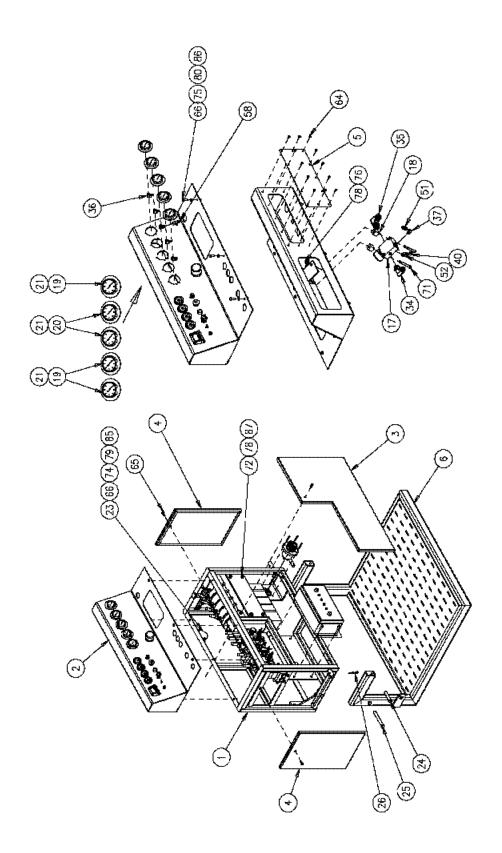
3546100 CYLINDER, FEED 132" STROKE [4" Bore, 2 3/4" Rod] (F BOART LONGYEAR

REF NO	REM	PART NUMBI	ER QTY	DESCRIPTION
1		3546115	REF	SEAL KIT, CYLINDER FEED (LF90 Long Stroke)
2			4	RING, BACKUP #141
3			2	O-RING, #141
4			1	WIPER, ROD
5			1	SEAL, ROD
6			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			1	SEAL, PISTON
11			1	PISTON
12			2	RING, PISTON WEAR
13			1	CASE WELDMENT
14			1	ROD WELDMENT
15		37924	1	O-RING, #342
16			1	RING, BACKUP #342
17			1	GLAND, HEAD
18		44663	2	S/SCR, SH 1/4-20 x 3/8 Lg.
19			1	O-RING, #117
20			2	RING, BACKUP #117



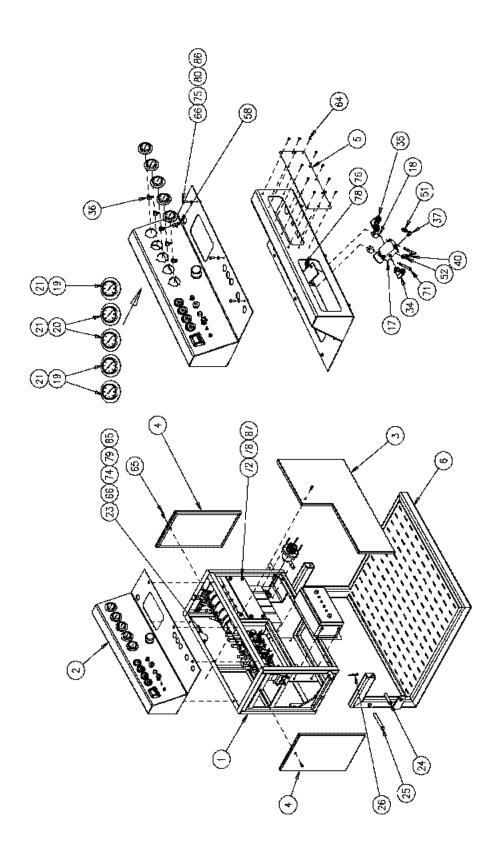


1 3547531 1 CONTROL STAND LF90D 2 3547532 1 CONTROL STAND CONSOLE 3 3547225 1 COVER, FRONT 4 3547226 2 COVER, SIDE 5 3547533 1 REAR CONSOLE COVER 6 3547534 1 OPERATOR PLATFORM 7 3547756 1 MANIFOLD ASSEMBLY D03 (Page 62) 8 3547757 1 MAIN CONTROL VALVE 9 3544247 4 SPRING, COMPRESSION 10 3544246 4 PLUNGER, LOCKING 11 3544249 8 COLLAR, SHAFT 10MM 12 3547793 1 PLATE, LOCKOUT 13 3546028 1 MANIFOLD PRE-TORQUE VALVE 14 3546021 1 COIL, 12VDC CONTROL VALVE 15 3547802 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, SOLENOID 17 3546891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547669 2 PIN, OPERATOR STAND 25 3547669 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12 JIC x 12 ORB x 45° 28 33750 1 ADAP, HYD 16 JIC x #8 ORB x 45° 30 3544120 3 ADAP, HYD 16 JIC x #8 ORB x 45° 31 33748 3 ADAPT, HYD #8 JIC x #8 ORB x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 18 JIC x #8 ORB x 45° 34 35895 1 ADAP, HYD 18 JIC x 8 ORB x 90°	REF NO	REM PART NUMBE	R QTY	DESCRIPTION	
2 3547532 1 CONTROL STAND CONSOLE 3 3547225 1 COVER, FRONT 4 3547226 2 COVER, SIDE 5 3547533 1 REAR CONSOLE COVER 6 3547534 1 OPERATOR PLATFORM 7 3547756 1 MANIFOLD ASSEMBLY DO3 (Page 62) 8 354757 1 MAIN CONTROL VALVE 9 3544247 4 SPRING, COMPRESSION 10 3544246 4 PLUNGER, LOCKING 11 3544249 8 COLLAR, SHAFT 10MM 12 3547793 1 PLATE, LOCKOUT 13 3546028 1 MANIFOLD, PRE-TORQUE VALVE 14 3546021 1 COIL, 12VDC CONTROL VALVE 15 3547802 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, SOLENOID 17 3548891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547660 1 PIN, LOCK OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12,JIC x 12ORB x 45Deg 38 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 39 36457 1 ADAP, HYD #3 JIC x #8 ORB x 45° 30 354657 1 ADAP, HYD #3 JIC x #8 ORB x 45° 31 33784 35895 1 ADAP, HYD #3 JIC x 8 ORB x 90° 34 ADAP, HYD #3 JIC x 8 ORB x 90° 34 ADAP, HYD #3 JIC x 8 ORB x 90° 34 ADAP, HYD B JIC x 8 ORB x 90° 34 ADAP, HYD B JIC x 8 ORB x 90°					
3 3547225 1 COVER, FRONT 4 3547226 2 COVER, SIDE 5 3547533 1 REAR CONSOLE COVER 6 3547534 1 OPERATOR PLATFORM 7 3547756 1 MANIFOLD ASSEMBLY D03 (Page 62) 8 3547757 1 MAIN CONTROL VALVE 9 3544247 4 SPRING, COMPRESSION 10 3544246 4 PLUNGER, LOCKING 11 3544249 8 COLLAR, SHAFT 10MM 12 3547793 1 PLATE, LOCKOUT 13 3546028 1 MANIFOLD, PRE-TORQUE VALVE 14 3546021 1 COIL, 12VDC CONTROL VALVE 15 3547802 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, WATER PUMP CONTROL 17 3546891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548163 2 SPACER 19 3548165 1 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC x #6 ORB x 90° 34 35895 1 ADAP, HYD 8 JIC x 8 ORB x 90° 34 ADAPT, HYD 8 JIC x 8 ORB x 90° 34 ADAPT, HYD 8 JIC x 8 ORB x 90° 35 ADAP, HYD 8 JIC x 8 ORB x 90° 36 ADAPT, HYD 8 JIC x 8 ORB x 90° 36 ADAPT, HYD 8 JIC x 8 ORB x 90° 36 ADAPT, HYD 8 JIC x 8 ORB x 90°	1	3547531	1	CONTROL STAND LF90D	
4 3547226 2 COVER, SIDE 5 3547533 1 REAR CONSOLE COVER 6 3547534 1 OPERATOR PLATFORM 7 3547756 1 MANIFOLD ASSEMBLY D03 (Page 62) 8 3547757 1 MAIN CONTROL VALVE 9 3544247 4 SPRING, COMPRESSION 10 3544246 4 PLUNGER, LOCKING 11 3544249 8 COLLAR, SHAFT 10MM 12 3547793 1 PLATE, LOCKOUT 13 3546028 1 MANIFOLD, PRE-TORQUE VALVE 14 3546021 1 COIL, 12VDC CONTROL VALVE 15 3547802 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, SOLENOID 17 3546891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547669 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 16 JIC x #16 JIC(F) x 45° 30 3544120 3 ADAP, HYD 16 JIC x #16 JIC(F) x 45° 31 33748 3 ADAPT, HYD #6 JIC x #8 ORB x 90° 34 35895 1 ADAP, HYD #8 JIC x #8 ORB x 90° 34 ADAP, HYD #8 JIC x #8 ORB x 90° 35 ADAP, HYD #8 JIC x #8 ORB x 90° 35 ADAP, HYD #8 JIC x #8 ORB x 90° 35 ADAP, HYD #8 JIC x #8 ORB x 90° 35 ADAP, HYD #8 JIC x #8 ORB x 90° 36 ADAP, HYD #8 JIC x #8 ORB x 90° 36 ADAP, HYD #8 JIC x #8 ORB x 90° 36 ADAP, HYD #8 JIC x #8 ORB x 90° 36 ADAP, HYD #8 JIC x #8 ORB x 90°	2	3547532	1	CONTROL STAND CONSOLE	
5 3547533 1 REAR CONSOLE COVER 6 3547534 1 OPERATOR PLATFORM 7 3547756 1 MANIFOLD ASSEMBLY D03 (Page 62) 8 3547757 1 MAIN CONTROL VALVE 9 3544247 4 SPRING, COMPRESSION 10 3544246 4 PLUNGER, LOCKING 11 3544249 8 COLLAR, SHAFT 10MM 12 3547793 1 PLATE, LOCKOUT 13 3546028 1 MANIFOLD, PRE-TORQUE VALVE 14 3546021 1 COIL, 12VDC CONTROL VALVE 15 3547802 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548163 2 SPACER 19 3548163 2 SPACER 20 3548137 2 GAUGE, PRESSURE 0-5000 psi	3	3547225	1	COVER, FRONT	
6 3547534 1 OPERATOR PLATFORM 7 3547756 1 MANIFOLD ASSEMBLY D03 (Page 62) 8 3547757 1 MAIN CONTROL VALVE 9 3544247 4 SPRING, COMPRESSION 10 3544246 4 PLUNGER, LOCKING 11 3544249 8 COLLAR, SHAFT 10MM 12 3547793 1 PLATE, LOCKOUT 13 3546028 1 MANIFOLD, PRE-TORQUE VALVE 14 3546021 1 COIL, 12VDC CONTROL VALVE 15 3547802 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, SOLENOID 17 3546891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548163 2 SPACER 19 3548163 2 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547669 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 38 33750 1 ADAPT, HYD #16 JIC x #8 ORB x 45° 30 3544120 3 ADAPT, HYD #6 JIC x #8 ORB x 45° 31 33748 3 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 18 JIC x #8 ORB x 45° 34 ADAP, HYD B JIC x #8 ORB x 45° 34 ADAP, HYD B JIC x #8 ORB x 45° 35 ADAP, HYD B JIC x #8 ORB x 45° 36 ADAP, HYD B JIC x #8 ORB x 45° 37 ADAP, HYD B JIC x #8 ORB x 45° 38 ADAPT, HYD #8 JIC x #8 ORB x 45° 39 ADAP, HYD B JIC x #8 ORB x 45° 30 ADAP, HYD B JIC x #8 ORB x 45° 31 ADAP, HYD B JIC x 8 ORB x 90° 34 ADAP, HYD B JIC - 12 ORB x 90°	4	3547226	2	COVER, SIDE	
7 3547756 1 MANIFOLD ASSEMBLY D03 (Page 62) 8 3547757 1 MAIN CONTROL VALVE 9 3544247 4 SPRING, COMPRESSION 10 3544246 4 PLUNGER, LOCKING 11 3544249 8 COLLAR, SHAFT 10MM 12 3547793 1 PLATE, LOCKOUT 13 3546028 1 MANIFOLD, PRE-TORQUE VALVE 14 3546021 1 COIL, 12VDC CONTROL VALVE 15 3547802 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, SOLENOID 17 3546891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC × 12ORB × 45Deg 31 33748 3 ADAPT, HYD #16 JIC × #16 JIC(F) × 45° 32 29000 8 ADAPT, HYD #8 JIC × #8 ORB × 45° 33 36457 1 ADAP, HYD #8 JIC × #8 ORB × 45° 34 35895 1 ADAP, HYD #8 JIC × 8 ORB × 90° 34 ADAP, HYD #8 JIC × 8 ORB × 90° 34 ADAP, HYD #8 JIC × 8 ORB × 90° 34 ADAP, HYD B JIC × 8 ORB × 90°	5	3547533	1	REAR CONSOLE COVER	
8 3547757 1 MAIN CONTROL VALVE 9 3544247 4 SPRING, COMPRESSION 10 3544246 4 PLUNGER, LOCKING 11 3544249 8 COLLAR, SHAFT 10MM 12 3547793 1 PLATE, LOCKOUT 13 3546028 1 MANIFOLD, PRE-TORQUE VALVE 14 3546021 1 COIL, 12VDC CONTROL VALVE 15 3547802 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, SOLENOID 17 3546891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548163 2 SPACER 19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12 JIC × 12 ORB × 45° 29 36431 1 ADAPT, HYD #16 JIC × #6 ORB × 45° 30 3544120 3 ADAPT, HYD #8 JIC × #8 ORB × 45° 31 33748 3 ADAPT, HYD #8 JIC × #8 ORB × 45° 33 36457 1 ADAP, HYD #8 JIC × #8 ORB × 45° 34 35895 1 ADAP, HYD B JIC × 8 ORB × 90° 34 ADAP, HYD B JIC × 8 ORB × 90° 34 ADAP, HYD B JIC × 8 ORB × 90° 34 ADAP, HYD B JIC × 8 ORB × 90°	6	3547534	1	OPERATOR PLATFORM	
9 3544247 4 SPRING, COMPRESSION 10 3544246 4 PLUNGER, LOCKING 11 3544249 8 COLLAR, SHAFT 10MM 12 3547793 1 PLATE, LOCKOUT 13 3546028 1 MANIFOLD, PRE-TORQUE VALVE 14 3546021 1 COIL, 12VDC CONTROL VALVE 15 3547802 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, SOLENOID 17 3546891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAP, HYD 16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC x #8 ORB x 45° 30 3544120 3 ADAP, HYD 18 JIC x #8 ORB x 45° 31 33748 3 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 18 JIC x #8 ORB x 90° 34 35895 1 ADAP, HYD 18 JIC - 8 ORB x 90°	7	3547756	1	MANIFOLD ASSEMBLY D03 (Page 62)	
10 3544246 4 PLUNGER, LOCKING 11 3544249 8 COLLAR, SHAFT 10MM 12 3547793 1 PLATE, LOCKOUT 13 3546028 1 MANIFOLD, PRE-TORQUE VALVE 14 3546021 1 COIL, 12VDC CONTROL VALVE 15 3547802 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, SOLENOID 17 3546891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAP, HYD 16 JIC x #8 ORB x 45° 30 3544120 3 ADAP, HYD #6 JIC x #8 ORB x 45° 31 33748 3 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD #8 JIC x #8 ORB x 90° 34 35895 1 ADAP, HYD 18 JIC - 18 ORB x 90°	8	3547757	1	MAIN CONTROL VALVE	
11	9	3544247	4	SPRING, COMPRESSION	
12 3547793 1 PLATE, LOCKOUT 13 3546028 1 MANIFOLD, PRE-TORQUE VALVE 14 3546021 1 COIL, 12VDC CONTROL VALVE 15 3547802 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, SOLENOID 17 3546891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAP, HYD 16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC x #8 ORB x 450° 30 3544120 3 ADAPT, HYD #8 JIC x #8 ORB x 45° 31 33748 3 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD #8 JIC x 8 ORB x 90° 34 35895 1 ADAP, HYD #8 JIC - 8 ORB x 90°	10	3544246	4	PLUNGER, LOCKING	
13 3546028 1 MANIFOLD, PRE-TORQUE VALVE 14 3546021 1 COIL, 12VDC CONTROL VALVE 15 3547802 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, SOLENOID 17 3546891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12 JIC x 12 ORB x 45 Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC (F) x 45 ° 30 3544120 3 ADAP, HYD #6 JIC x #8 ORB x 45 Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 ORB x 45 ° 33 36457 1 ADAP, HYD #8 JIC x #8 ORB x 45 ° 34 35895 1 ADAP, HYD #8 JIC - 8 ORB x 90 °	11	3544249	8	COLLAR, SHAFT 10MM	
14 3546021 1 COIL, 12VDC CONTROL VALVE 15 3547802 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, SOLENOID 17 3546891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD #6 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 ORB x 45Deg 31 33748 3	12	3547793	1	PLATE, LOCKOUT	
15 3547802 1 VALVE, PRE-TORQUE RELIEF 16 3547801 1 VALVE, SOLENOID 17 3546891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 ORB x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 8 JIC x #8 ORB x 90° 34 35895 1 ADAP, HYD 8 JIC - 12 ORB x 90°	13	3546028	1	MANIFOLD, PRE-TORQUE VALVE	
16 3547801 1 VALVE, SOLENOID 17 3546891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 ORB x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD #8 JIC x 8 ORB x 90° 34 35895 1 ADAP, HYD 8 JIC - 8 ORB x 90°	14	3546021	1	COIL, 12VDC CONTROL VALVE	
17 3546891 1 VALVE, WATER PUMP CONTROL 18 3548163 2 SPACER 19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 ORB x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD #8 JIC x 8 ORB x 90° 34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	15	3547802	1	VALVE, PRE-TORQUE RELIEF	
18 3548163 2 SPACER 19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 ORB x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD #8 JIC x #8 ORB x 45° 34 35895 1 ADAP, HYD 8 JIC - 12 ORB x 90°	16	3547801	1	VALVE, SOLENOID	
19 3548136 3 GAUGE, PRESSURE 0-3000 psi 20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 ORB x 450° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD #8 JIC x #8 ORB x 45° 34 35895 1 ADAP, HYD 8 JIC - 12 ORB x 90°	17	3546891	1	VALVE, WATER PUMP CONTROL	
20 3548137 2 GAUGE, PRESSURE 0-5000 psi 21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 ORB x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD #8 JIC x #8 ORB x 90° 34 35895 1 ADAP, HYD 8 JIC - 12 ORB x 90°	18	3548163	2	SPACER	
21 3548142 5 RING, FACE 22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 ORB x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 8 JIC x #8 ORB x 90° 34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	19	3548136	3	GAUGE, PRESSURE 0-3000 psi	
22 3548165 1 GAUGE ISOLATOR 23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC - 16 ORB x 45° 30 3544120 3 ADAP, HYD #6 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 JIC(F) x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD #8 JIC x #8 ORB x 90° 34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	20	3548137	2	GAUGE, PRESSURE 0-5000 psi	
23 3547783 1 SHUTDOWN CONTROL (Page 68) 24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC - 16 ORB x 45° 30 3544120 3 ADAP, HYD #6 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 JIC(F) x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 8 JIC - 8 ORB x 90° 34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	21	3548142	5	RING, FACE	
24 3547660 1 PIN, LOCK OPERATOR STAND 25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC - 16 ORB x 45° 30 3544120 3 ADAP, HYD #6 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 JIC(F) x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 8 JIC - 8 ORB x 90° 34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	22	3548165	1	GAUGE ISOLATOR	
25 3547659 2 PIN, OPERATOR STAND 26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC - 16 ORB x 45° 30 3544120 3 ADAP, HYD #6 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 JIC(F) x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 8 JIC - 8 ORB x 90° 34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	23	3547783	1	SHUTDOWN CONTROL (Page 68)	
26 102113 3 CLIP, HITCH PIN 27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC - 16 ORB x 45° 30 3544120 3 ADAP, HYD #6 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 JIC(F) x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 8 JIC - 8 ORB x 90° 34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	24	3547660	1	PIN, LOCK OPERATOR STAND	
27 36445 2 ADAP, HYD 12JIC x 12ORB x 45Deg 28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC - 16 ORB x 45° 30 3544120 3 ADAP, HYD #6 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 JIC(F) x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 8 JIC - 8 ORB x 90° 34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	25	3547659	2	PIN, OPERATOR STAND	
28 33750 1 ADAPT, HYD #16 JIC x #16 JIC(F) x 45° 29 36431 1 ADAP, HYD 16 JIC - 16 ORB x 45° 30 3544120 3 ADAP, HYD #6 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 JIC(F) x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 8 JIC - 8 ORB x 90° 34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	26	102113	3	CLIP, HITCH PIN	
29 36431 1 ADAP, HYD 16 JIC - 16 ORB x 45° 30 3544120 3 ADAP, HYD #6 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 JIC(F) x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 8 JIC - 8 ORB x 90° 34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	27	36445	2	ADAP, HYD 12JIC x 12ORB x 45Deg	
30 3544120 3 ADAP, HYD #6 JIC x #8 ORB x 45Deg 31 33748 3 ADAPT, HYD #8 JIC x #8 JIC(F) x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 8 JIC - 8 ORB x 90° 34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	28	33750	1	ADAPT, HYD #16 JIC x #16 JIC(F) x 45°	
31 33748 3 ADAPT, HYD #8 JIC x #8 JIC(F) x 45° 32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 8 JIC - 8 ORB x 90° 34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	29	36431	1	ADAP, HYD 16 JIC - 16 ORB x 45°	
32 29000 8 ADAPT, HYD #8 JIC x #8 ORB x 45° 33 36457 1 ADAP, HYD 8 JIC - 8 ORB x 90° 34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	30	3544120	3	ADAP, HYD #6 JIC x #8 ORB x 45Deg	
33 36457 1 ADAP, HYD 8 JIC - 8 ORB x 90° 34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	31	33748	3	ADAPT, HYD #8 JIC x #8 JIC(F) x 45°	
34 35895 1 ADAP, HYD 12 JIC - 12 ORB x 90°	32	29000	8	ADAPT, HYD #8 JIC x #8 ORB x 45°	
	33	36457	1	ADAP, HYD 8 JIC - 8 ORB x 90°	
	34	35895	1	ADAP, HYD 12 JIC - 12 ORB x 90°	
35 38849 1 ADAP, HYD 16JIC x 12ORB x 90Deg	35	38849	1	ADAP, HYD 16JIC x 12ORB x 90Deg	
36 26056 5 ADAP, HYD 4 JIC - 4 NPT x 90°	36	26056	5	ADAP, HYD 4 JIC - 4 NPT x 90°	
37 37015 1 ADAP, HYD #4 JIC x #4 ORB x 90Deg	37	37015	1	ADAP, HYD #4 JIC x #4 ORB x 90Deg	
38 40237 1 ADAP, HYD 4 JIC - 6 ORB x 90°	38	40237	1	ADAP, HYD 4 JIC - 6 ORB x 90°	
39 3541667 1 ADAP, HYD 90Deg 8 ORB x 4 JIC	39	3541667	1	ADAP, HYD 90Deg 8 ORB x 4 JIC	
40 44302 1 ADAPT, HYD #6 JIC x #4 ORB x 90	40	44302	1	ADAPT, HYD #6 JIC x #4 ORB x 90	
41 39690 1 ADAP, HYD 8 JIC x 90°	41	39690	1	ADAP, HYD 8 JIC x 90°	
42 49229 2 ADAP, HYD CAP 8 JIC	42	49229	2	ADAP, HYD CAP 8 JIC	



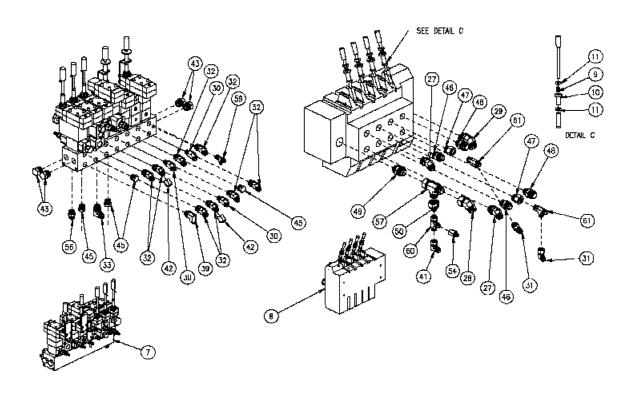


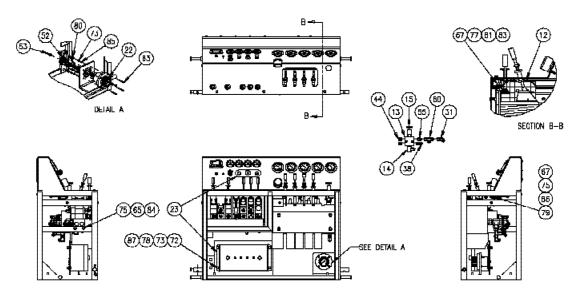
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44		44195	2	ADAP, HYD 6 ORB PLUG
45		39572	4	ADAP HYD PLUG #8 ORB
46		36463	2	ADAP, HYD 12 JIC x 12 ORB
47		34214	2	ADAP, HYD 12 ORB - 8 ORB F
48		33697	2	ADAP, HYD 16 JIC - 12 JIC
49		25470	1	ADAP, HYD 16JIC x 16 ORB
50		33720	1	ADAP, HYD 16 JIC (F) - 8 JIC
51		306220	1	ADAP, HYD #4 JIC(F) x #4 NPT(F)
52		35897	7	ADAP, HYD 4 JIC - 4 ORB
53		39511	1	ADAP, HYD 6 JIC - 4 ORB
54		33718	1	ADAP, HYD 8 JIC - 6 JIC
55		33069	1	ADAP, HYD #6 ORB x #8 JIC
56		36458	1	ADAP, HYD 8 JIC x 8 ORB
57		32978	1	ADAP, HYD 16 JIC TEE
58		33791	1	ADAP, #4 JIC x #4 JIC (F) x 4 JIC
59		33681	1	ADAP, HYD #4 JIC x # 4 ORB TEE
60		33429	2	ADAP, #8 JIC x #8 JIC(F) x #8 JIC
61		39737	2	ADAP, HYD 8 JIC - 8 ORB TEE
63		48011	4	C/SCR, SH 1/4-20 UNC x 1-1/2 GR8
64		3542056	12	C/SCR, BH 1/4-20 UNC x 1/2Lg.
65		3547792	3	C/SCR, BH 3/8-16 UNC x 1 Lg.
66		44509	6	C/SCR, HH 5/16-18UNC x 1 LG - L.C. #90214-86
67		44513	3	C/SCR, HH 1/2-13 UNC x 1 GR8
68		44536	4	C/SCR, HH 3/8-16UNC x 1-1/2
69		44584	2	C/SCR, HH 1/4-20 UNC x 1-1/2 GR8
70		44673	2	C/SCR, HH 5/16UNC x 2 LG
71		44858	2	C/SCR, HH 3/8-16 UNC x 3-1/2 GR8
72		46078	8	C/SCR, HH 7/16-14 UNC x 1 GR8
73		44518	6	LOCKWASHER, 1/4" ID
74		44519	8	L/WASHER, 5/16 SAE G8
75		44520	6	WASHER, 3/8 ID LOCK
76		44521	3	WASHER, LOCK 1/2 ID
77		44525	3	NUT, HEX 1/2-13UNC
78		44527	2	NUT, HEX 3/8-16UNC
79		44552	8	NUT, 5/16UNC
80		44567	6	NUT, HEX 1/4-20UNC
81		44621	6	WASHER, FLAT 1/2"
82		44660	8	WASHER, LOCK 7/16 ID
83		44680	4	HEXNUT, 7/16-14 3B
84		44859	4	WASHER, FLAT GR 8 3/8
85		46087	8	WASHER, FLAT 1/4" ID



3547163 CONSOLE MODULE & BOART LONGYEAR

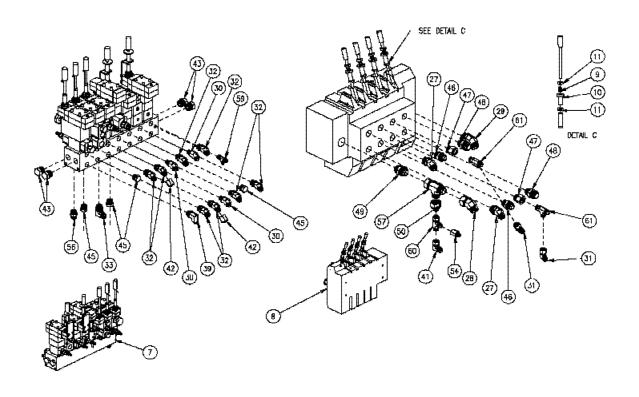
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87		8500042	8	WASHER, FLAT GR8 7/16

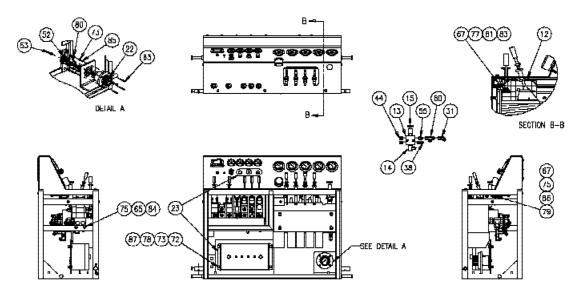






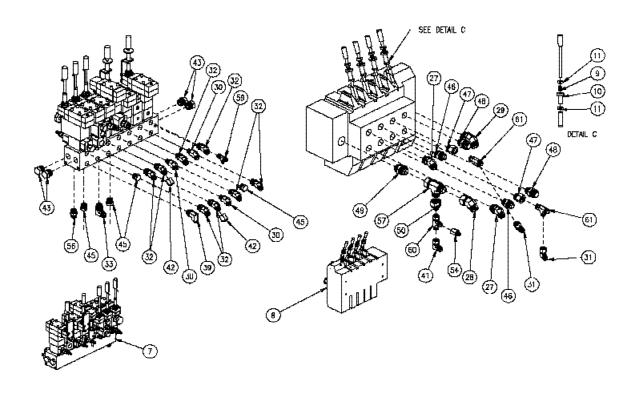
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1		3547531	1	CONTROL STAND LF90D
2		3547532	1	CONTROL STAND CONSOLE
3		3547225	1	COVER, FRONT
4		3547226	2	COVER, SIDE
5		3547533	1	REAR CONSOLE COVER
6		3547534	1	OPERATOR PLATFORM
7		3547756	1	MANIFOLD ASSEMBLY D03 (Page 62)
8		3547757	1	MAIN CONTROL VALVE
9		3544247	4	SPRING, COMPRESSION
10		3544246	4	PLUNGER, LOCKING
11		3544249	8	COLLAR, SHAFT 10MM
12		3547793	1	PLATE, LOCKOUT
13		3546028	1	MANIFOLD, PRE-TORQUE VALVE
14		3546021	1	COIL, 12VDC CONTROL VALVE
15		3547802	1	VALVE, PRE-TORQUE RELIEF
16		3547801	1	VALVE, SOLENOID
17		3546891	1	VALVE, WATER PUMP CONTROL
18		3548163	2	SPACER
19		3548136	3	GAUGE, PRESSURE 0-3000 psi
20		3548137	2	GAUGE, PRESSURE 0-5000 psi
21		3548142	5	RING, FACE
22		3548165	1	GAUGE ISOLATOR
23		3547783	1	SHUTDOWN CONTROL (Page 68)
24		3547660	1	PIN, LOCK OPERATOR STAND
25		3547659	2	PIN, OPERATOR STAND
26		102113	3	CLIP, HITCH PIN
27		36445	2	ADAP, HYD 12JIC x 12ORB x 45Deg
28		33750	1	ADAPT, HYD #16 JIC x #16 JIC(F) x 45°
29		36431	1	ADAP, HYD 16 JIC - 16 ORB x 45°
30		3544120	3	ADAP, HYD #6 JIC x #8 ORB x 45Deg
31		33748	3	ADAPT, HYD #8 JIC x #8 JIC(F) x 45°
32		29000	8	ADAPT, HYD #8 JIC x #8 ORB x 45°
33		36457	1	ADAP, HYD 8 JIC - 8 ORB x 90°
34		35895	1	ADAP, HYD 12 JIC - 12 ORB x 90°
35		38849	1	ADAP, HYD 16JIC x 12ORB x 90Deg
36		26056	5	ADAP, HYD 4 JIC - 4 NPT x 90°
37		37015	1	ADAP, HYD #4 JIC x #4 ORB x 90Deg
38		40237	1	ADAP, HYD 4 JIC - 6 ORB x 90°
39		3541667	1	ADAP, HYD 90Deg 8 ORB x 4 JIC
40		44302	1	ADAPT, HYD #6 JIC x #4 ORB x 90
41		39690	1	ADAP, HYD 8 JIC x 90°
42		49229	2	ADAP, HYD CAP 8 JIC

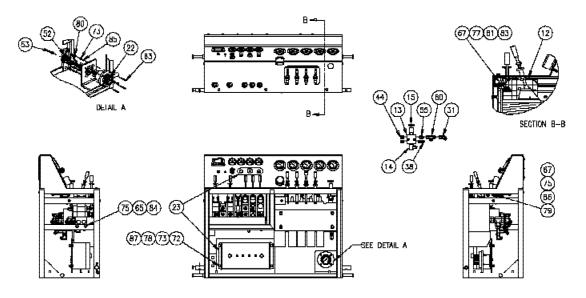






REF NO	REM	PART NUMBE	R QTY	DESCRIPTION
43		101644	4	PLUG, #10 SAE ORB
43 44		44195	2	ADAP, HYD 6 ORB PLUG
45		39572	4	ADAP HYD PLUG #8 ORB
46		36463	2	ADAP, HYD 12 JIC x 12 ORB
47		34214	2	ADAP, HYD 12 ORB - 8 ORB F
48		33697	2	ADAP, HYD 16 JIC - 12 JIC
49		25470	1	ADAP, HYD 16JIC x 16 ORB
50		33720	1	ADAP, HYD 16 JIC (F) - 8 JIC
51		306220	1	ADAP, HYD #4 JIC(F) x #4 NPT(F)
52		35897	7	ADAP, HYD 4 JIC - 4 ORB
53		39511	1	ADAP, HYD 6 JIC - 4 ORB
54		33718	1	ADAP, HYD 8 JIC - 6 JIC
55		33069	1	ADAP, HYD #6 ORB x #8 JIC
56		36458	1	ADAP, HYD 8 JIC x 8 ORB
57		32978	1	ADAP, HYD 16 JIC TEE
58		33791	1	ADAP, #4 JIC x #4 JIC (F) x 4 JIC
59		33681	1	ADAP, HYD #4 JIC x # 4 ORB TEE
60		33429	2	ADAP, #8 JIC x #8 JIC(F) x #8 JIC
61		39737	2	ADAP, HYD 8 JIC - 8 ORB TEE
63		48011	4	C/SCR, SH 1/4-20 UNC x 1-1/2 GR8
64		3542056	12	C/SCR, BH 1/4-20 UNC x 1/2Lg.
65		3547792	3	C/SCR, BH 3/8-16 UNC x 1 Lg.
66		44509	6	C/SCR, HH 5/16-18UNC x 1 LG - L.C. #90214-86
67		44513	3	C/SCR, HH 1/2-13 UNC x 1 GR8
68		44536	4	C/SCR, HH 3/8-16UNC x 1-1/2
69		44584	2	C/SCR, HH 1/4-20 UNC x 1-1/2 GR8
70		44673	2	C/SCR, HH 5/16UNC x 2 LG
71		44858	2	C/SCR, HH 3/8-16 UNC x 3-1/2 GR8
72		46078	8	C/SCR, HH 7/16-14 UNC x 1 GR8
73		44518	6	LOCKWASHER, 1/4" ID
74		44519	8	L/WASHER, 5/16 SAE G8
75		44520	6	WASHER, 3/8 ID LOCK
76		44521	3	WASHER, LOCK 1/2 ID
77		44525	3	NUT, HEX 1/2-13UNC
78		44527	2	NUT, HEX 3/8-16UNC
79		44552	8	NUT, 5/16UNC
80		44567	6	NUT, HEX 1/4-20UNC
81		44621	6	WASHER, FLAT 1/2"
82		44660	8	WASHER, LOCK 7/16 ID
83		44680	4	HEXNUT, 7/16-14 3B
84		44859	4	WASHER, FLAT GR 8 3/8
85		46087	8	WASHER, FLAT 1/4" ID

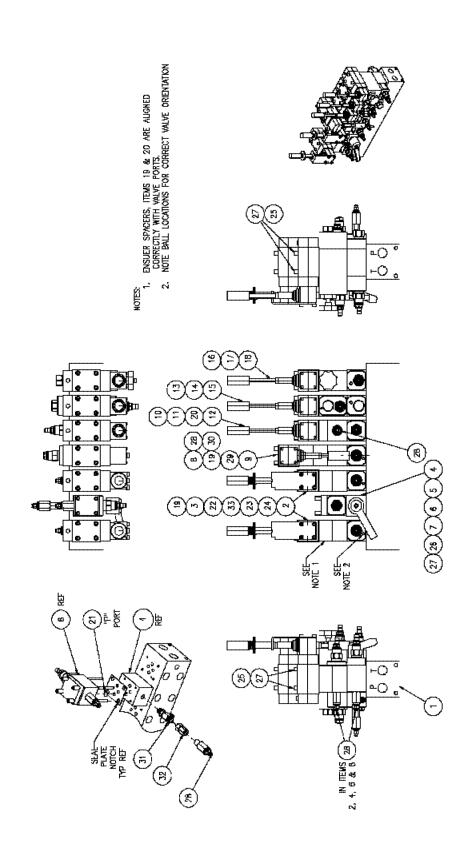




3547163 CONSOLE MODULE

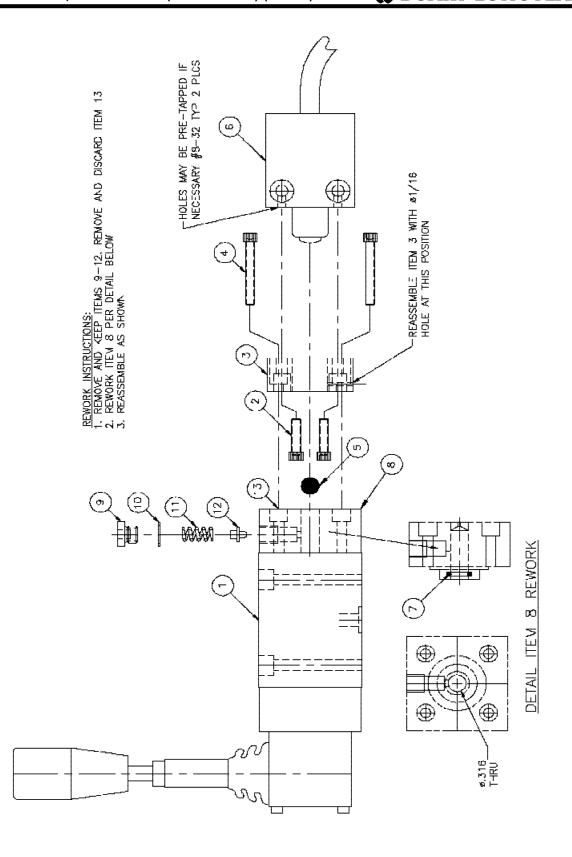


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
86		46510	14	WASHER, FLAT, GR8, 5/16
87		8500042	8	WASHER, FLAT GR8 7/16



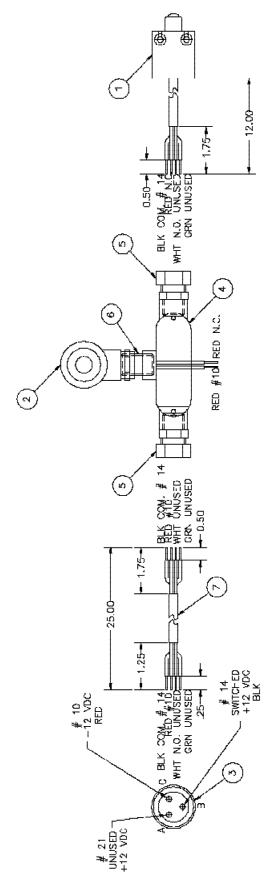


REF NO	REM PART NUMBE	R QTY	DESCRIPTION
1	3544172	1	MANIFOLD REWORK, D03
2	100231	2	VALVE, PRESS. REDUCING/RELIEVING
3	3544273	2	VALVE, CTRL CHUCK & ROD CLAMP
4	101664	1	VALVE, BODY HOIST BRAKE RELEASE
5	100705	1	CARTRIDGE, VALVE HOIST BRAKE
6	100229	1	VALVE, CONTROL ROTATION PRESS [Rotation]
7	100230	1	PLATE, CROSSOVER
8	3543963	1	VALVE, PRESS RED'G MAST RAISING
9	3544275	1	VALVE, CONTROL MAST RAISING
10	101878	1	VALVE, FEED MUD MIXER
11	100226	1	VALVE, SEQUENCE MUD MIXER
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	3546010	1	VALVE, DIRECTIONAL (PRE-TORQUE)
16	3544271	1	VALVE, CONTROL HEAD FEED
17	104101	1	VALVE, PRESS REDUCING HEAD FEED
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
26	101963	4	STUD, #10-24UNC x 4.75 LG
27	100608	28	NUT, STUD #10-24 UNC
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



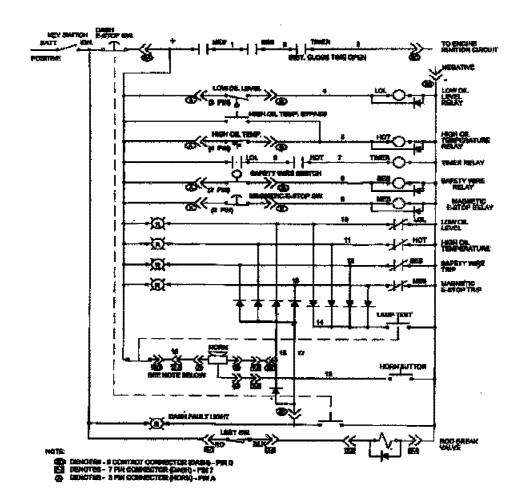


REF NO	REM	PART NUMBI	ER QTY	DESCRIPTION
1		3544274	1	VALVE, CONTROL HEAD FLOAT [includes items 7-13]
2		3546011	2	C/SCR, SH #8-32 x 5/8" Lg.
3		3546012	1	MOUNT, SWITCH
4		3546013	4	C/SCR, SH M4 x 30mm Lg.
5		38044	1	BALL, 5/16 ST
6		3546014	1	SWITCH ASSEMBLY PRE-TORQUE KIT (Rev. A) (Page 66)
7			REF	O-RING, 2-011 [included in item 1]
8			REF	END COVER (rework) [included in item 1]
9			REF	PLUG, 8mm x 1mm [included in item 1]
10			REF	COPPER RING [included in item 1]
11			REF	SPRING [included in item 1]
12			REF	DETENT [included in item 1]
13			REF	C/SCR, M4 x 20mm [included in item 1]





REF NO	REM	PART NUMBE	R QTY	DESCRIPTION
1		3546020	1	SWITCH, PRE-TORQUE KIT
2		3546021	1	COIL, 12VDC CONTROL VALVE
3		3546022	1	PLUG, STRAIGHT ELEC
4		3546023	1	BOX, 1/2" T CONDUIT
5		3546024	2	CONNECTOR, POWER CORD
6		3546025	1	NIPPLE, 1/2" CONDUIT
7			REF	CORD FROM ITEM #1 x 25.00 Lg
8		3546027	3	CONNECTOR, YELLOW WIRE



3547783	SHUTD	OWN CONTROL	& BOART LONGYEAR	
REF NO	REM	PART NUMBER QTY	DESCRIPTION	

REF

3548322

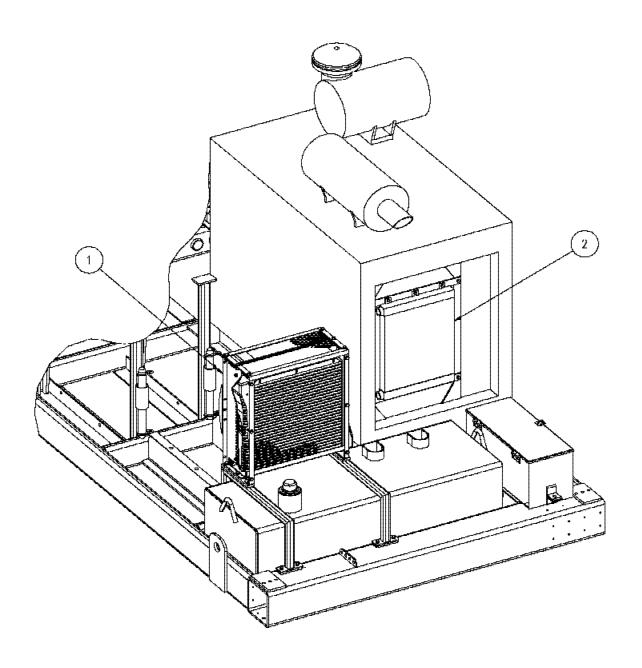
SPARES, SHUTDOWN CONTROLS (Page 70)

1



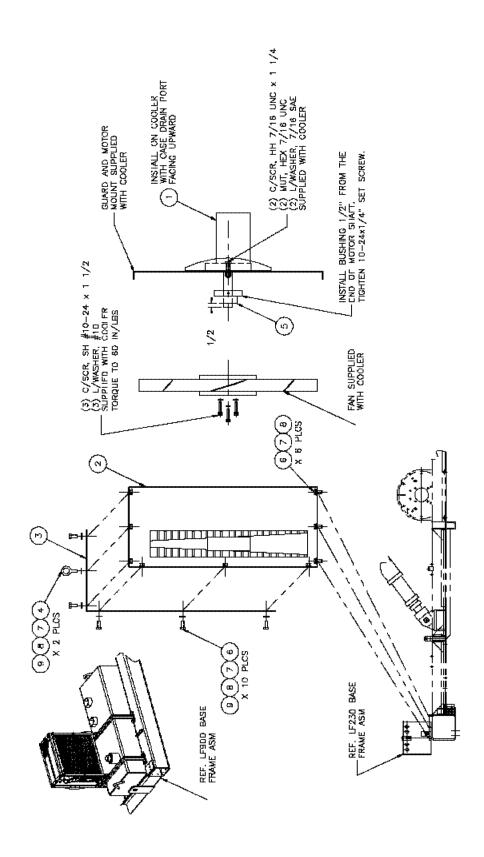


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3548323	2	N/O CONTACT BLOCK, GREEN
2		3548324	2	N/C CONTACT BLOCK, RED
3		3548325	2	PUSH BUTTON, GREEN
4		3548326	1	PUSH BUTTON, BLACK
5		3548327	4	RELAY, 12VDC
6		3548328	1	OIL LEVEL CABLE
7		3548329	1	OIL TEMP CABLE
8		3548330	1	SAFETY WIRE CABLE
9		3548331	1	E-STOP CABLE
10		3548332	1	E-STOP BUTTON, RED
11		3548333	1	CONTACT BLOCK 12VDC
12		3548334	1	LIGHT BULB 12VDC
13		3548335	1	PRE TORQUE ASSEMBLY



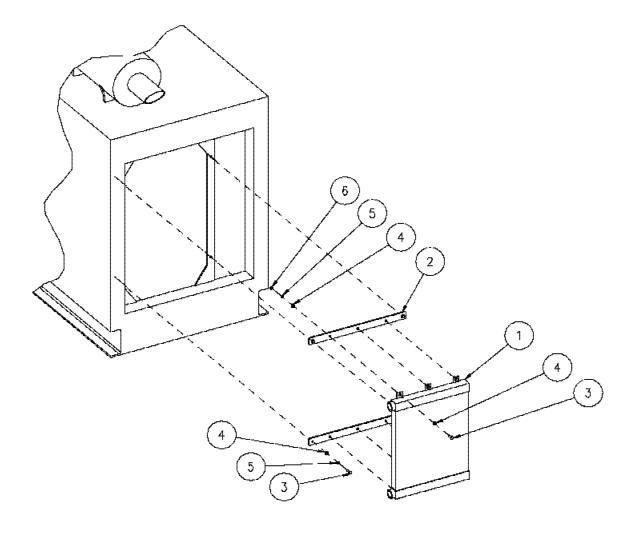
3548268 COOLER MODULE & BOART LONGYEAR

REF NO	REM PART NUMBER QTY DESCRIPTION		DESCRIPTION		
1		3546384	1	COOLER GROUP, MAIN HYDRAULICS (Page 74)	
2		3548308	1	COOLER GROUP, HEAD HYDRAULICS (Page 76)	





REF NO	REM	PART NUMBE	R QTY	DESCRIPTION
1		3546729	1	MOTOR, LF230/90D OIL COOLER
2		3546730	1	COOLER, LF230/90D HYDRAULIC OIL
3		3547425	1	GUARD, LF230/90D REMOTE COOLER
4			2	BOLT, EYE 3/8 UNC
5		3547470	1	BUSHING, REMOTE COOLER FAN
6		44512	16	C/SCR, HH 3/8-16UNC x 1 LG
7		44859	18	WASHER, FLAT GR 8 3/8
8		44520	18	WASHER, 3/8 ID LOCK
9		103968	12	NUT, HEX 3/8-16UNC





REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3546731	1	COOLER, HYDRAULIC LF90D/230
2		3548312	2	SUPPORT, HEAD COOLER LF90D
3		44509	10	C/SCR, HH 5/16-18UNC x 1 LG - L.C. #90214-86
4		46510	20	WASHER, FLAT, GR8, 5/16
5		44519	10	L/WASHER, 5/16 SAE G8
6		44552	10	NUT, 5/16UNC



& BOA	RT LONG	PYEAR	SPECIF	ICATION	
			3547819	A1.DOC	
l mu	E: MAIN HY	DRAULICS PIPING	3 GRP, LF901	D	
PREPA	ARED: AF	REV:	ECN:	DATE:	
AUTHO	DRIZED:	REV:	ECN:	DATE:	
APPRO		REV:	ECN:	DATE:	
USED		REV: A			
0022		.,			
		HQ\$E END LI	EĢEND		
C - Fe F - 90°		el 90° (Extra Long) (Code 51)	D - Male NPT Split Flange (C		
No	SIZE	CUT LENGTH	END	TYPE	QTY
1.00	344	COLLEGIII	<u></u>	<u> </u>	1
1	#6	41.5	A-A	100R2AT	1
2	#6	15.5	A-A	100RZAT	1
3	#8	48.5	A-A	100R2AT	1
1 4	#6	24.5	A-A	100R2AT	1
5	#6	41.5	A-A	100R2AT	1
8	#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 57.5	A-B	100R2AT	1
11 12	#0 #6	57.5 55.5	A-B A-B	100RZAT 100RZAT	1
13	#6	59.5	A-B	100R2AT	1
14	#6	55.5	A-B	100RZAT	i
15	# 0	100.5	A-B	100R2AT	1
16	#6	100.5	A-B	100R2AT	4
17	#6	170.5	A-A	100R2AT	1
18	#6	170.5	A-A	100RZAT	i
19	#6	176.5	A-A	100R2AT	i
20	#6	176.5	A-A	100R2AT	i
21	#6	121.5	A-A	100R2AT	1
22	#6	123.5	A-A	100R2AT	i
23	#6	131.5	A-C	100R2AT	i
24	#6	131.5	A-B	100R2AT	4
25	#6	84.5	A-A	100R2AT	1
26	#6	84.5	A-A	100R2AT	1
27	#0	87.5	A-A	100R2AT	1

3547619A1 page 1 of 6
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& BOART LONGYBA		YEAR	SPECIF	ICATION	
			3647819/	A 1	
28	#6	87.5	A-A	100R2AT	1
29	#8	19	A-A	100R2AT	2
31	#8	7.25	A-B	100R2AT	1
32	#6	102.5	B-B	100R2AT	1
33	#8	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	# 0	55	A-H	100R2AT	1
39	#6	55.5	A-A	100R2AT	1
40	#8	194.5	A-A	100R2AT	2
41	#8	15	A-B	100R2AT	1
44	#8	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	#18	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	17 4	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	#8	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	63.25	A-G	100R2AT	1
71	#18	65.5	A-G	100R13	1
76	#8	75.5	A-B	100R2AT	1
77	#8	129	A-A	100R2AT	1
78	#8	129	A-A	100R2AT	1
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
I					

3547619A1 page 2 of 6
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	& BOART LONGYEA		SPECIFICATION		
			354781	9A1	· · · · · ·
83	#6	129.5	A-A	100R2AT	1
84	#6	129.5	A-A	100R2AT	1
85	#18	127.5	A-A	100R13	1
86	#16	127.5	A-A	100R13	1
87	#18	122.5	A-A	100R13	1
88	#18	122.5	A-A	100R13	1
89	#16	166.5	A-B	100R13	1
90	#16	166.5	A-B	100R13	1
91	#8	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	1 9 7	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	#18	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	#8	80.5	A-A	100R2AT	1
115	#8	21	A-C	100R2AT	1
118	#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	Ą-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
133	#4	80	A-A	100R2AT	1
134	#4	60	A-A	100R2AT	1
135	#4	.60	A-A	100R2AT	1
136	#6	150.5	A-A	100R2AT	1

3547819A1 page 3 of 8
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& BOA	RT LONGY	TAR	SPEC	IFICATION	
			354781	9 A 1	
137	#6	15	A-A	100R2AT	1
138	#8	165.5	A-B	100R2AT	1
139	#8	128	A-B	100R2AT	2
140	#8	119.5	A-A	100R2AT	2
141	#8	127	A-A	100R2AT	2
142	#1	21	A-A	100R2AT	1
143	#4	23	A-A	100R2AT	1
144	#8	27.5	A-B	100R2AT	2
145	#8	27	A-A	100R2AT	2
146	#6	159.5	A-A	100R2AT	1
151	#4	39.5	A-B	100R2AT	1
152	#4	20.5	A-A	100R2AT	1
158	#4	34.5	A-A	100R2AT	1
	ADA	PTERS & OTH	ER COMPONEN	TS	
<u>item No</u>	Part No	DESCRIPTI	<u>ON</u>		QTY
155	26042	ADAP, HYD	STR 8 JIC		2
157	33716	ADAP, HYD	STR 4 JIC - 6 JIC	;	1
158	33718	ADAP, HYD	STR 8 JIC - 6 JIC	;	1
159	2405-16-08	ADAP, HYD	STR 16 JIC - 8 JIC	C	1
160	2405-24-12	ADAP, HYD	STR 24 JIC - 12	JIC	2
161	26056	ADAP, HYD	90 4 JIC - 4 NPT	•	5
162	37863	ADAP, HYD	TEE 8 JIC - 8 JIC	- 8 NPT	2
167	3474-12-12	ADAP, HYD	STR 12 ORB		1
168	3474-16-16	ADAP, HYD	STR 16 ORB		1
169	3474-20-20	ADAP, HYD	STR 20 ORB		1
170	3474-32-32	,	STR 32 ORB		1
171	35887	ADAP, HYD	STR 4 JIC - 4 OR	В	7
173	39511	,	STR 6 JIC - 4 OF	· 	1
174	35465	•	STR 6 JIC - 6 OF		3
176	33844	,	STR 8 JIC - 12 C		1
177	33089	,	STR 8 JIC - 6 OF		1
179	40079	,	STR 8 JIG - 10 C		•
181	36960		STR 12 JIC - 10		2
182	36463		STR 12 JIC - 12		2
185	25470		STR 16 JIC - 16		1
186	33108		STR 20 JIC - 20		1
187	32987		STR 20 JIC - 24		;
188	33659	,	STR 32 JIC = 32	-	1
190	6400-16-08	,	STR 16 ORB - 8		1
191	44195		PLUG 6 ORB	310	2
101	44 123 44 123	ADAF, RTD	-LUG 6 ORB		-

3547819A1 page 4 of 8
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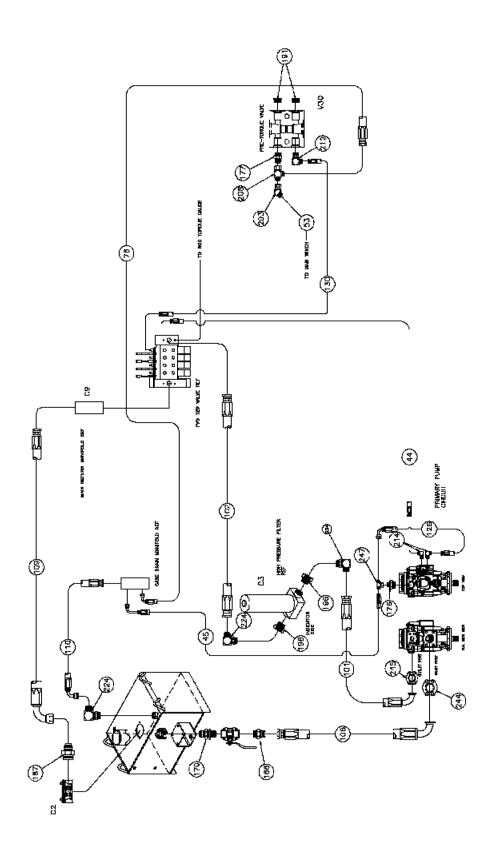




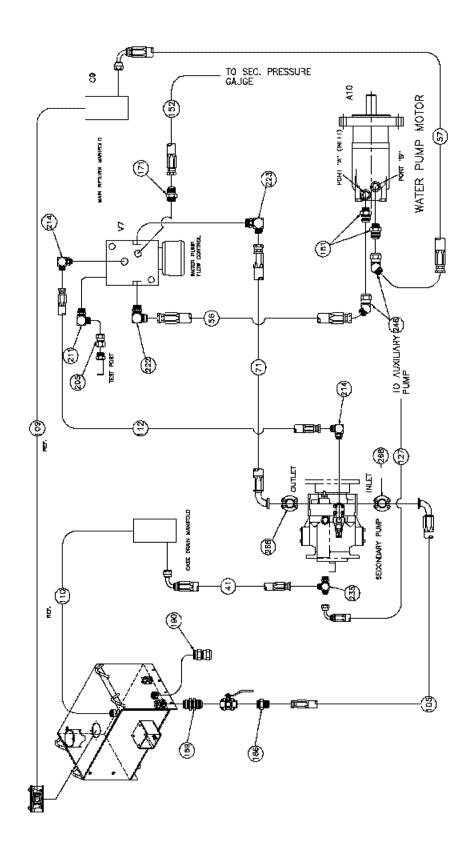
		SPECIFICATION 3647819A1			
192	49229	ADAP, HYD PLUG 8 JIC			
195	49229 3474-16-08	ADAP, HYD STR 16 ORB - 8 ORB	2		
196	3474-24-16	ADAP, HYD STR 24 ORB – 16 ORB	2		
197	33214	ADAP, HYD 90 4 JIC	1		
199	39690	ADAP, HYD 90 8 JIC	1		
200	43072	ADAP, HYD 90 12 JIC	1		
202	39288	ADAP, HYD 45 6 JIC	1		
203	33748	ADAP, HYD 45 8 JIC	5		
204	33750	ADAP HYD 45 18 JIC	- 1		
205	306220	ADAP, HYD STR 4 JIC - 4 NPT	8		
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	3		
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	9		
216	32558	ADAP, HYD 90 8 JIC - 6 ORB	5		
217	38457	ADAP, HYD 90 8 JIC - 6 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	2		
221	39222	ADAP, HYD 90 10 JIC - 10 ORB	1		
222	35895	ADAP, HYD 90 12 JIG - 12 ORB	5		
223	38849	ADAP, HYD 90 16 JIC - 12 ORB	1		
224 231	36424	ADAP, HYD 90 16 JIC - 16 ORB	8		
233	39196	ADAP, HYD 45 18 JIC - 12 ORB	1		
235	33678 39737	ADAP, HYD TEE 6 JIC -6 JIC - 6 ORB ADAP, HYD TEE 8 JIC - 8 JIC - 8 ORB	3		
243	CFH8 20	SPUT FLANGE 20	1		
244	CFHS 32	SPLIT FLANGE 32	1		
245	CFHS 16	SPLIT FLANGE 18	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		CAF - 10 ORB	1		
253	40255	ADAP, HYD LON 8 JIC - 8 ORB	1		

3547819A1 page 5 of 6
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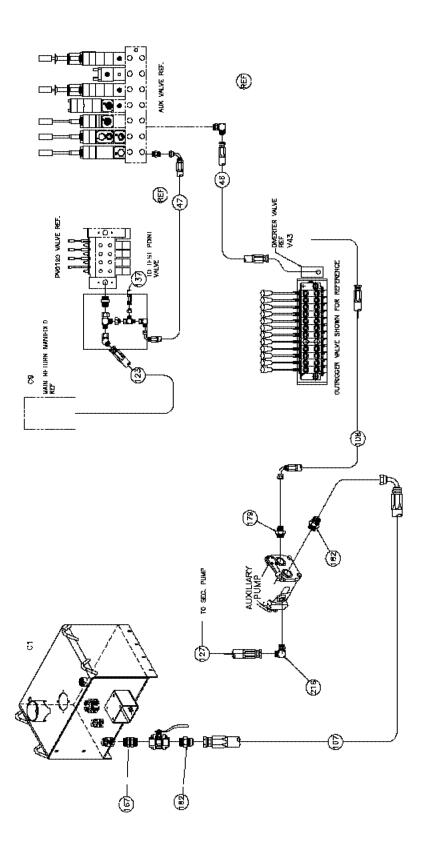




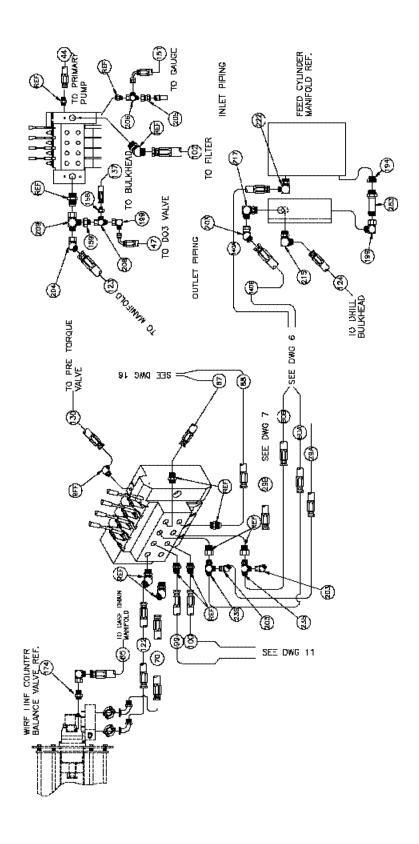




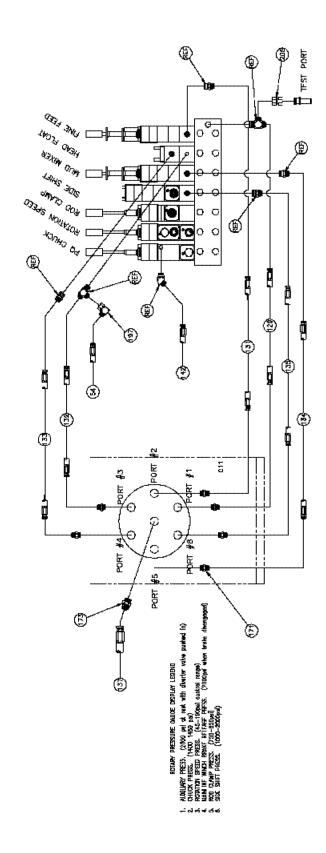




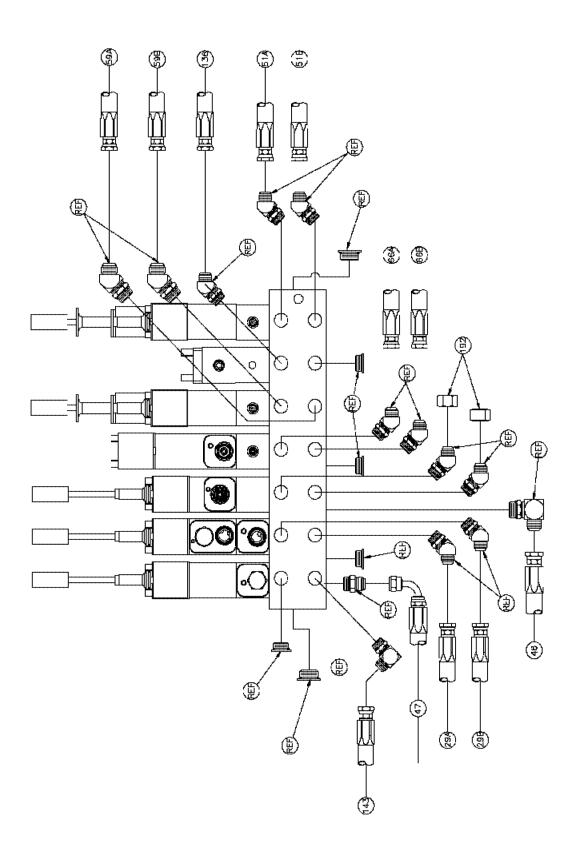




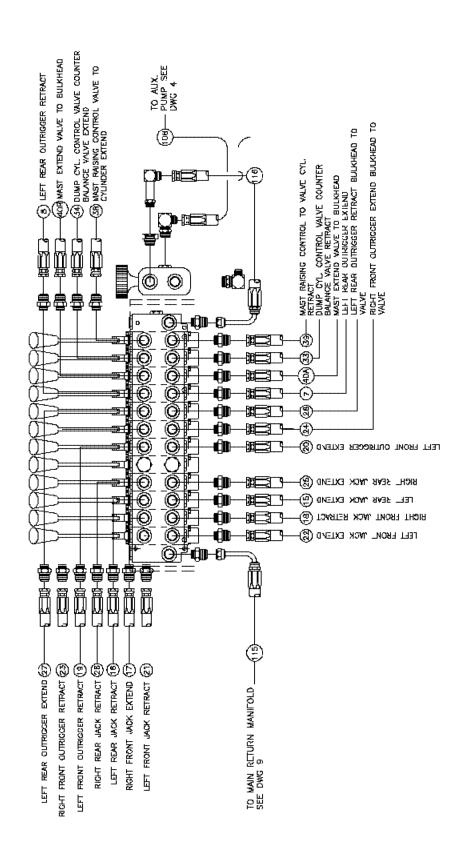




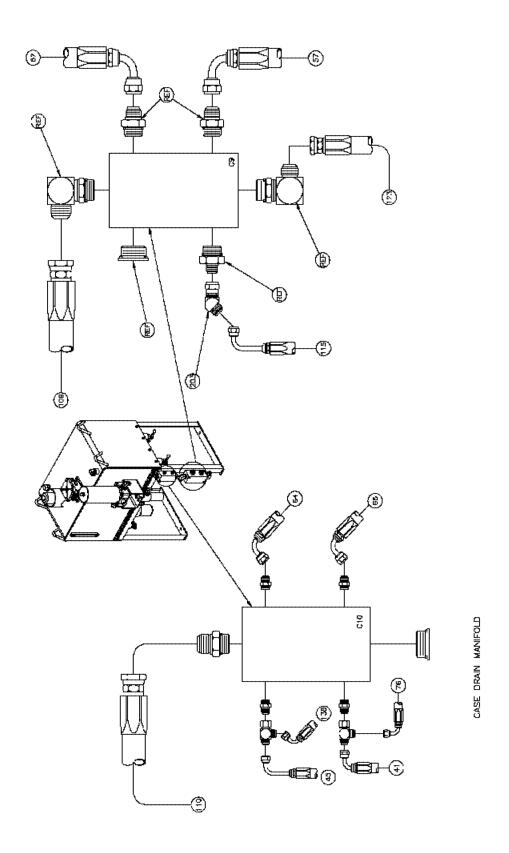




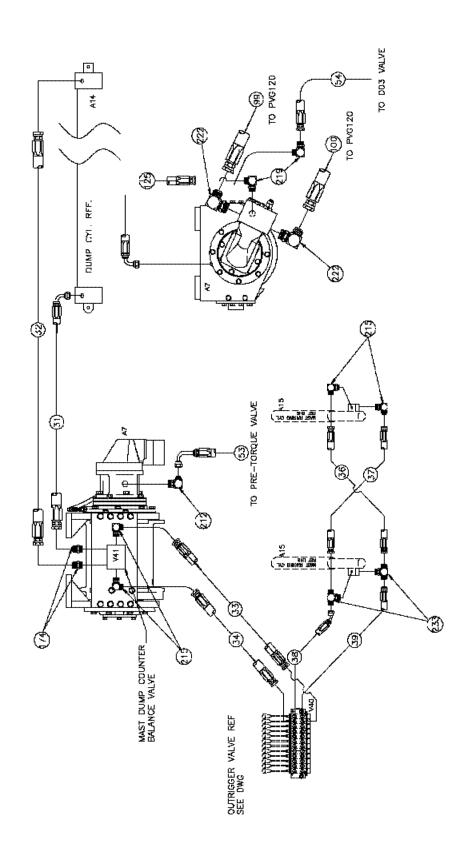




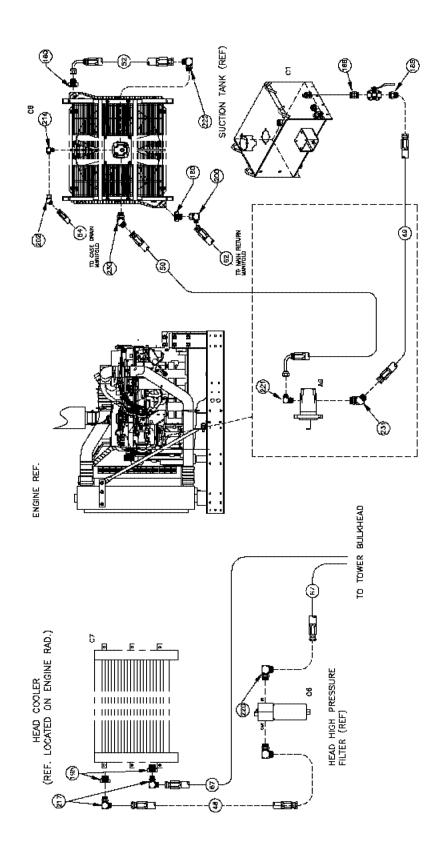




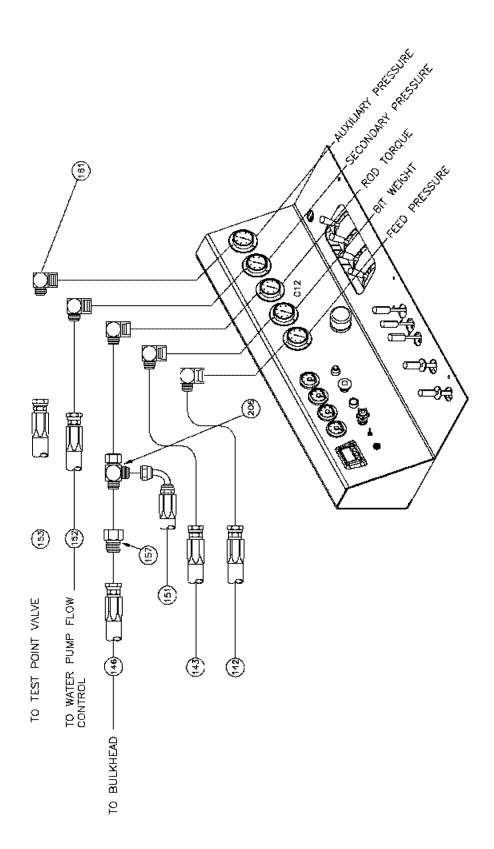




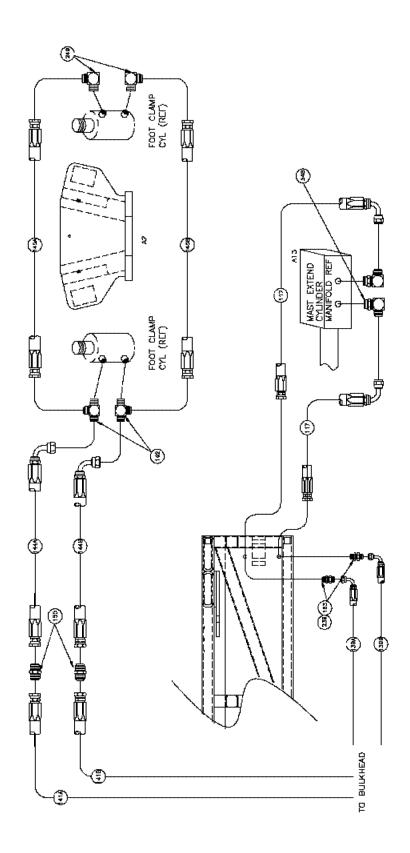




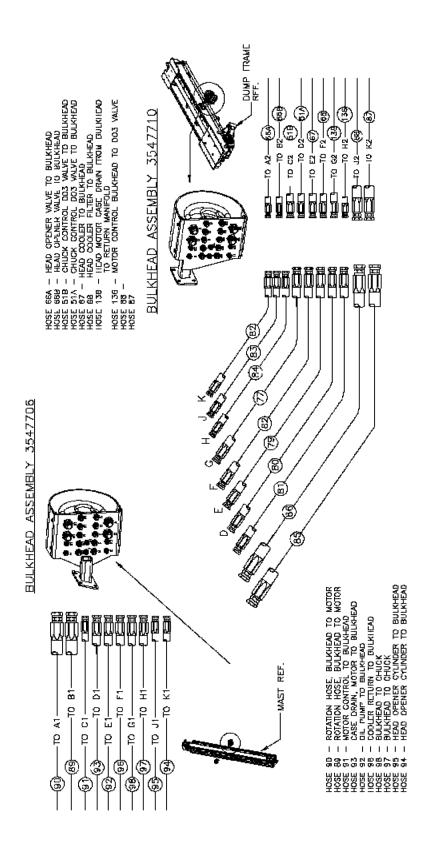




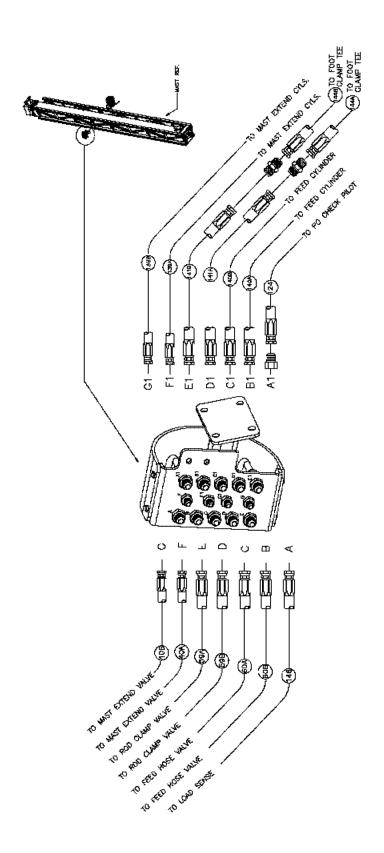




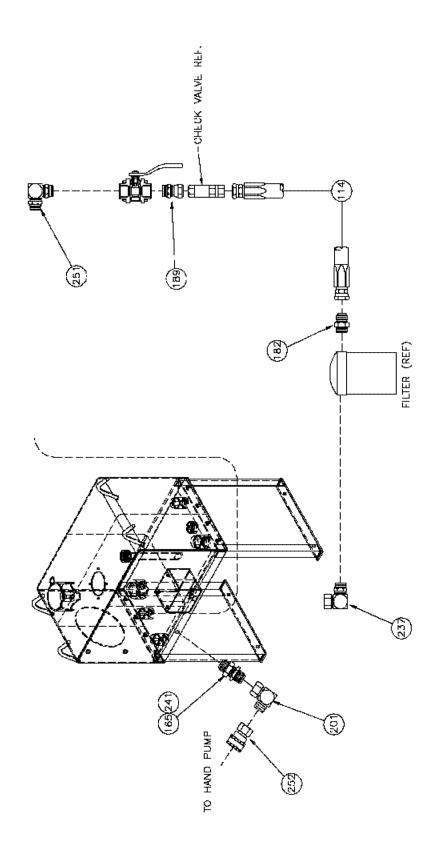




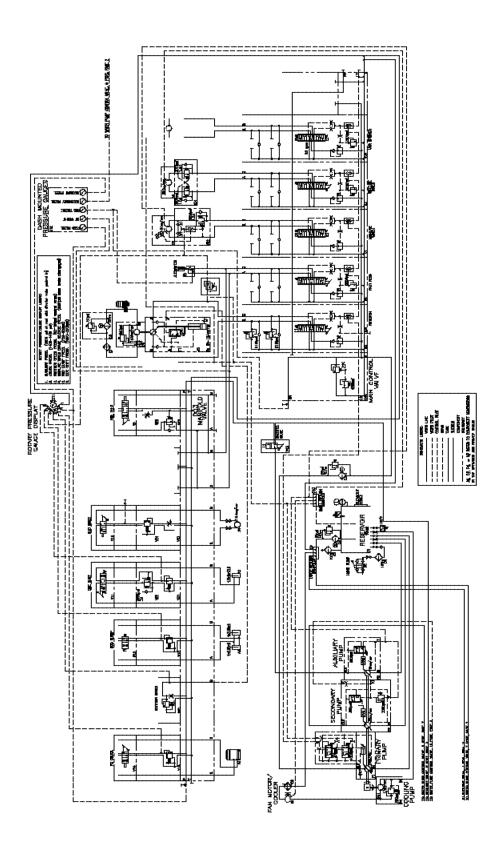




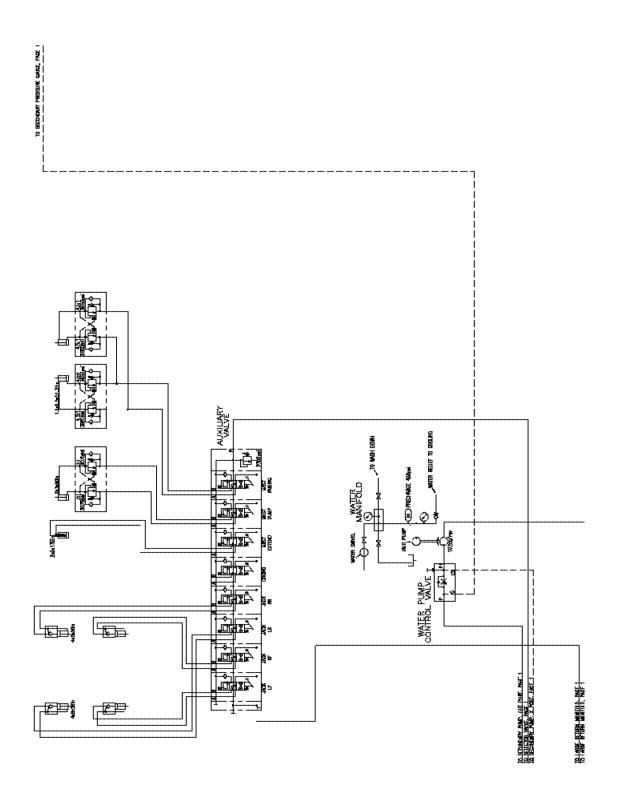












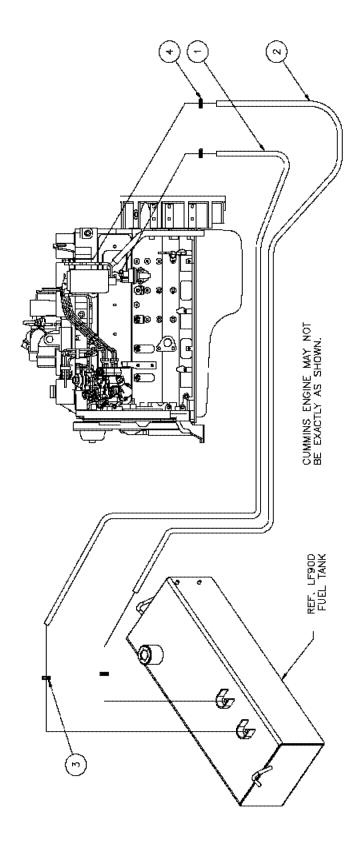




3547422	ENGINE MODULE, CUMMINS	

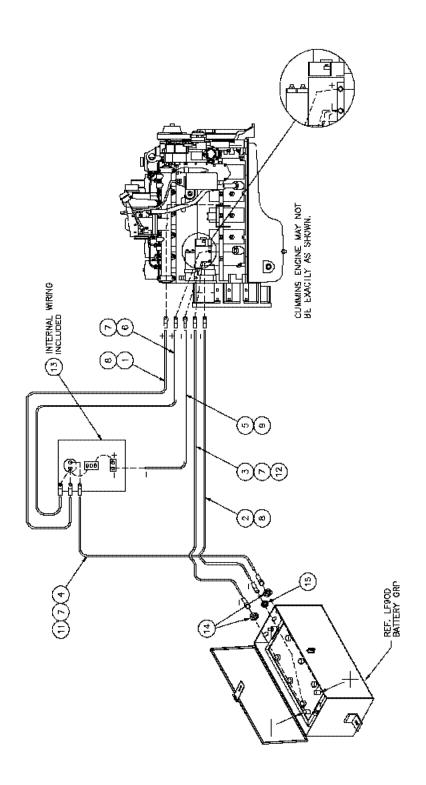


REF NO	REM	PART NUMBER	QTY	DESCRIPTION	
1		3548254	1	FUEL PIPING GROUP(Page 124)	
2		3548256	1	BATTERY WIRING GROUP (Page 126)	



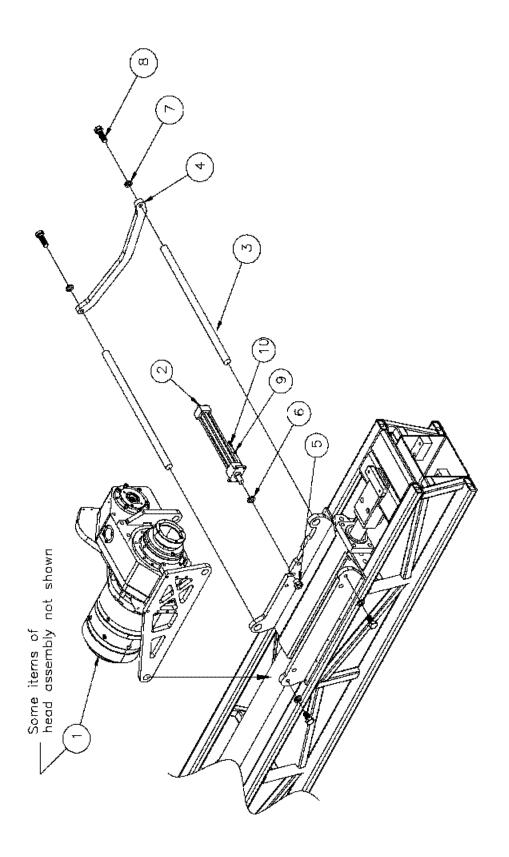


REF NO	REM	PART NUMBE	R QTY	DESCRIPTION	
1		3542252	1	HOSE Ø1/2 X 120" Lg.	
2		3544544	1	HOSE, 5/16 ID SAE30R7	
3		8500435	2	CLAMP. HOSE SIZE 8	
4		306143	2	CLAMP, HOSE (5/8" OD)	



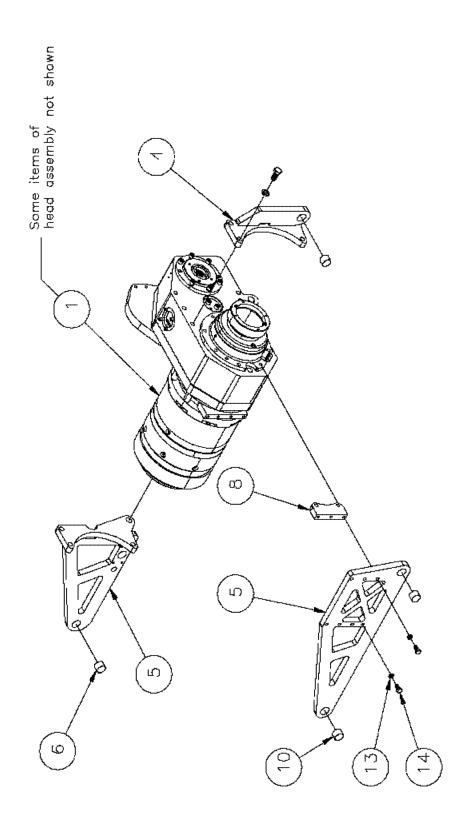


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3548257	1	CABLE, RED 4 AWG x 94 Lg
2		3548258	1	CABLE, BLACK 4 AWG x 124 Lg
3		3548260	1	CABLE, BLACK 1/0 AWG x 125 Lg
4		3548270	1	CABLE, RED 1/0 AWG x 126 Lg
5		3548261	1	CABLE, BLACK 12 AWG x 80 Lg
6		3548259	1	CABLE, RED 1/0 AWG 82 Lg
7		3548262	4	LUG, RING TERMINAL 1/0 AWG
8		306382	4	LUG, RING TERMINAL 4 AWG
9		3548263	1	LUG, RING TERMINAL 12 AWG
10		306385	12	SHRINK TUBE
11		3548264	1	TERMINAL, BATTERY CABLE (POS)
12		3548265	1	TERMINAL, BATTERY CABLE (NEG)
13		3548035	1	MASTER DISCONNECT PANEL
14		3548266	2	GROMMET, RUBBER
15		3548267	1	GROMMET, RUBBER



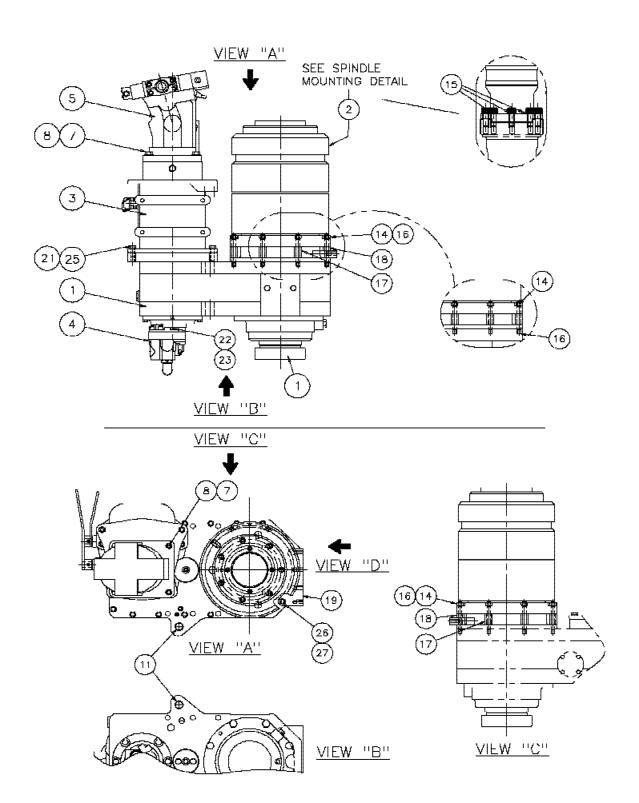


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547366	1	DRIVE MODULE, PQ (Page 130)
2		3547545	1	CYLINDER, HEAD OPENER
3		3547391	2	BAR, GUIDE
4		3547389	1	END PLATE, RIGHT SIDE
5		3547390	1	NUT, FLANGE
6		3547393	1	WASHER
7			4	LOCKWASHER
8			4	C/SCR
9			4	LOCKWASHER
10			4	C/SCR



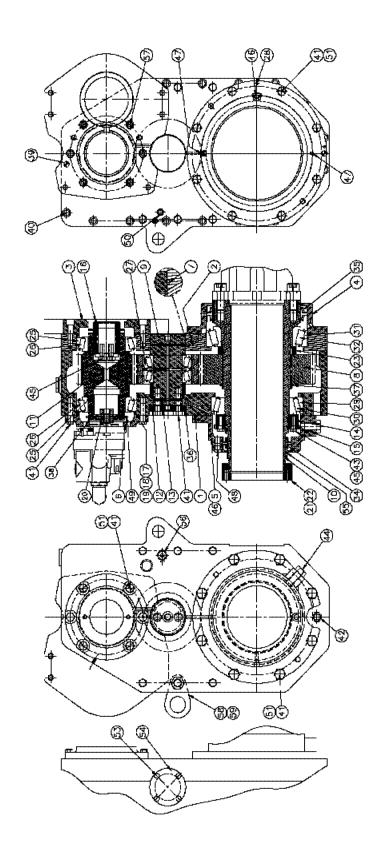


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547379	1	HEAD ASSEMBLY LF90D (Page 132)
2		3547383	1	MOUNT
3		3547382	1	MOUNT
4		3547380	1	MOUNT, LOWER
5		3547381	1	MOUNT, UPPER
6		3547394	4	BUSHING
7		3547395	1	HOSE HANGER
8		3547546	1	PIPING GROUP





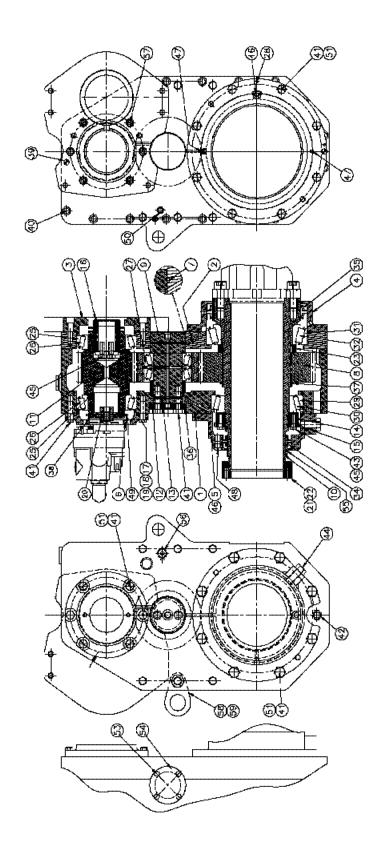
REM	PART NUMBE	R QTY	DESCRIPTION
	3547367	1	HEAD ASSEMBLY, BASIC (Page 134)
	3542840	1	CHUCK ASM, PQ NITROGEN GAS LF70/LF140 (Page 140)
	3547405	1	TRANSMISSION, LF90D SUB ASM.
	3544946	1	PUMP, HYDRAULIC GEAR
	103816	1	MOTOR, HYDRAULIC
	49830	6	C/SCR, HH 3/4-10UNC x 2 LG
	44523	4	LOCKWASHER, Dia3/4
	44520	2	WASHER, 3/8 ID LOCK
	102225	3	BUSHING, STEEL
	3541286	1	LUG, LIFTING
	44525	8	NUT, HEX 1/2-13UNC
	103243	8	C/SCR, SH 3/4-10UNC x 1 3/4
	3542838	8	STUD, 1/2-13UNC PQ CHUCK
	3542839	6	SPACER, PQ CHUCK
	3547401	1	SPACER, PQ CHUCK (SHORT)
	3547384	1	MOUNTING PLATE, UPPER
	44521	6	WASHER, LOCK 1/2 ID
	44512	2	C/SCR, HH 3/8-16UNC x 1 LG
	44520	2	WASHER, 3/8 ID LOCK
	14892	1	GUN, GREASE
	104231	6	C/SCR, HH 1/2-13UNC x 1 3/4" Lg.
	44510	1	C/SCR, HH 1/2-13 NC x 1.5Lg.
	44521	1	WASHER, LOCK 1/2 ID
	REM	3547367 3542840 3547405 3544946 103816 49830 44523 44520 102225 3541286 44525 103243 3542838 3542839 3547401 3547384 44521 44512 44520 14892 104231 44510	3547367 1 3542840 1 3547405 1 3544946 1 103816 1 49830 6 44523 4 44520 2 102225 3 3541286 1 44525 8 103243 8 3542838 8 3542838 8 3542839 6 3547401 1 3547384 1 44521 6 44512 2 44520 2 14892 1 104231 6 44510 1





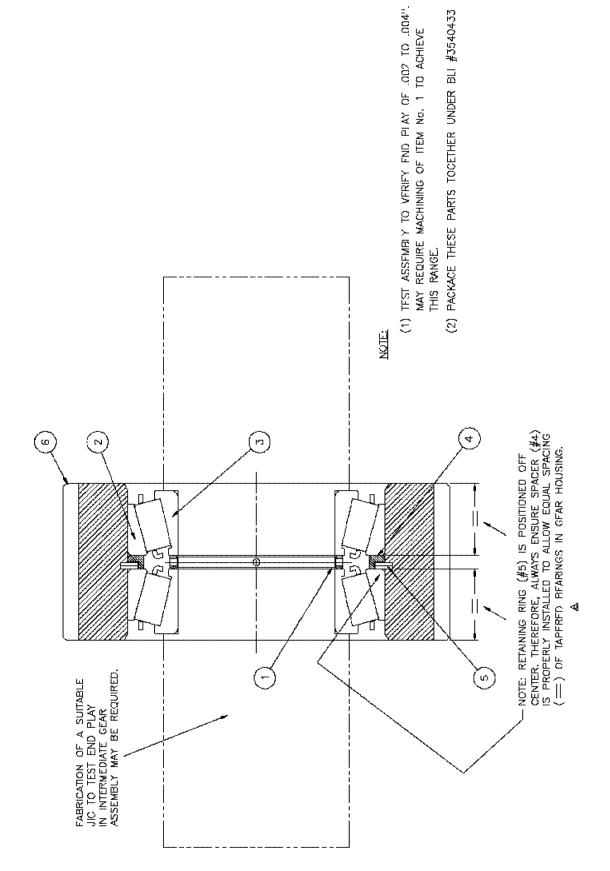
REF NO	REM	PART NUMBE	R QTY	DESCRIPTION
1		306473	1	HOUSING-MAIN
2		3547369	1	COVER, HOUSING
3		3547368	1	CARRIER, TRANSMISSION INPUT
4		306476	1	CAP- BEARING UPPER (OUTPUT)
5		306477	1	CAP- BEARING LOWER (OUTPUT)
6		3547372	1	COVER, PUMP MOUNTING
7		3547404	1	O-RING
8		306468	1	GEAR-OUTPUT
9		3547371	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
16		306485	1	ADAPTOR-SPLINED
17		306487	3	SHIM005 THICK [Ref Chart #306505]
18		306488	3	SHIM007 THICK [Ref Chart #306505]
19		306489	1	SHIM020 THICK [Ref Chart #306505]
20		3546712	1	ADAPTER ASM, PQ HEAD PUMP
21		44661	2	S/SCR, SH 1/4UNC x 3/4 LG
22		104464	1	NUT, SPINDLE
23		306493	1	SPACER-OUTPUT
25		306585	2	CUP-BEARING, O.D. 5.75
26		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		306590	1	CUP-BEARING, O.D. 8.875"
30		306592	1	CONE-BEARING, I.D. 6.25"
31		306593	1	CUP-BEARING, O.D. 9.75
32		306594	1	CONE-BEARING, I.D. 6.875"
33		44538	2	C/SCR, HH 3/8-16 NC x 1/2 Lg.
34		306599	2	SEAL-OIL, ID 5.75" OD 6.625" [Lower Output]
35		306600	2	SEAL-OIL, ID 8.5" OD 9.75 [Upper Output]
36		48761	1	O'RING, SHAFT INTERMEDIATE
37		306603	1	RING-SNAP, Dia6.75" SHAFT
38		3546713	2	PIN, 1/4 DIA. x 1 1/4 LG DOWEL
39		3540648	2	DOWEL-GROOVED Dia1/2" x 1.75"LG.
40		46102	19	C/SCR SH 1/2-13 NC x 1-3/4Lg.
41		44510	16	C/SCR, HH 1/2-13 NC x 1.5Lg.
42		3540054	1	PLUG-MAGNETIC PIPE [3/4 NPT, Magnetic]

00) STAINLESS SLEEVES SUPPLIED WITH THIS ITEM, FOR INDIVIDUAL SLEEVES SEE PART 306494 & 3546752





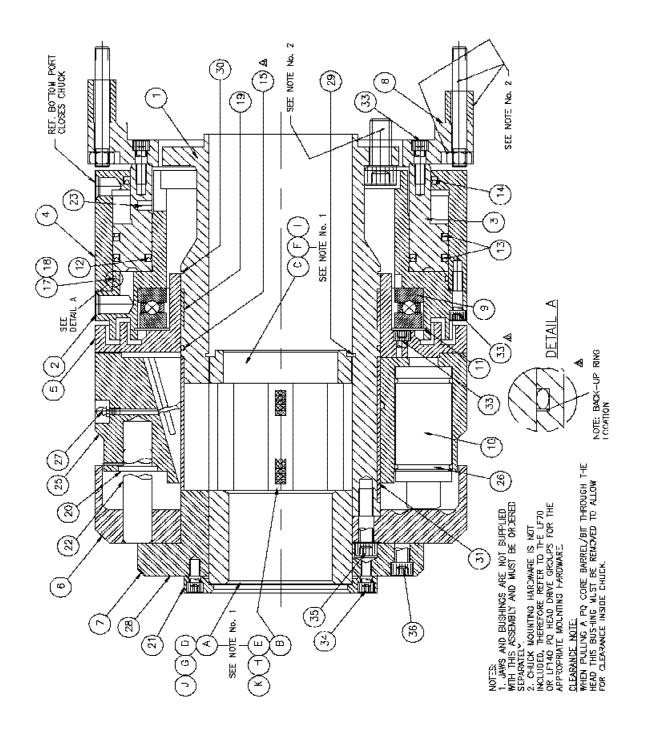
REF NO	REM	PART NUMBER	QTY	DESCRIPTION
43		306608	6	C/SCR,HH 3/8-16x1-1/4 Lg (Rwk)
44		39572	1	ADAP HYD PLUG #8 ORB
45		44766	A/R	WIRE-LOCK Dia.047
46		16634	1	FITTING-GREASE 1/8 NPTF
47		38045	2	PLUG, 1/8 STEEL PIPE
48		22079	2	PLUG-SOCKET PIPE, 1/4 N.P.T.
49		306604	1	RING-SNAP, Dia3.625" SHAFT
50		22080	1	PLUG-SOCKET PIPE, 3/8" N.P.T.
51		44521	23	WASHER, LOCK 1/2 ID
52		19917	1	FITTING, GREASE 1/8 NPT x 45Deg
53		44551	4	C/SCR, HH 5/16-18 x 3/4 Lg.
54		100327	1	COVER, SERVICE
56		18784	1	ADAPT, HYD PLUG, 3/4 NPT [socket head]
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.



3540433 GEAR, INTERMEDIATE ASSEMBLY (PQ HEAD) (Rev C)

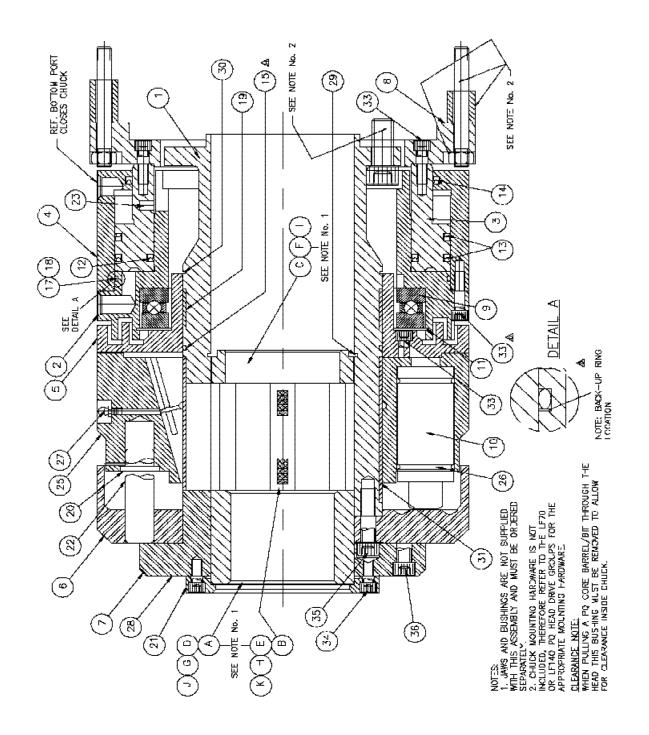


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		306492	1	SPACER, BEARING (REWORK)
2		306588	2	CUP, BEARING O.D. 4.5276
3		306589	2	CONE, BEARING I.D. 2.7559
4		306597	1	SPACER, CUP
5		3540005	1	RING, RETAINING Dia4.5" HOUSING
6		306469	1	GEAR, INTERMEDIATE





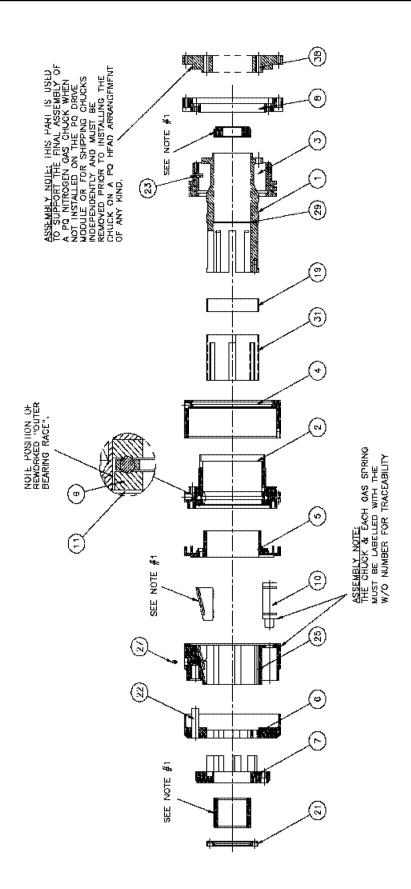
REF NO	REM	PART NUMB	ER QTY	DESCRIPTION
1		3543477	1	SPINDLE, PQ CHUCK NITRO
2		3543478	1	INNER CYLINDER, CHUCK NITRO
3		3543479	1	PISTON, PQ CHUCK NITRO
4		3543480	1	CYLINDER, OUTER CHUCK NITRO
5		3543481	1	LABRINTH SEAL, CHUCK NITRO
6		3543482	1	RETAINER, SPRING PQ CHUCK
7		3543483	1	RETAINER, JAW PQ CHUCK NITRO
8		3543490	1	ADAPTER, MTG CHUCK NITRO
9		3543496	1	BEARING, BALL THRUST
10		3543497	7	GAS SPRING, NITROGEN PQ CHUCK
11		3543499	1	RING, RETAINING INTERNAL
12		3543500	1	CUP SEAL, INNER URETHANE
13		3543501	2	CUP SEAL, OUTER URETHANE
14		3543502	1	CUP SEAL, PISTON URETHANE
15		3543503	1	O'RING, PQ CHUCK SPINDLE
17		3543505	1	O'RING, PQ CHUCK CYLINDER
18		3543506	1	RING, BACK-UP PQ CHUCK CYL
19		3543507	1	RING, SPINDLE WEAR LOWER
20		3543508	3	SEAL, OIL GUIDE PIN
21		3543509	1	BUSHING, RETAINER GUIDE
22		3543510	3	PIN, DOWEL 1 DIA x 3 1/2 LG
23		3543511	3	PIN, DOWEL 3/8 DIA x 1 LG
25		3543515	1	BOWL, PQ CHUCK NITRO
26		3543519	7	O'RING, GAS SPRING PQ CHUCK
27		3543520	10	NIPPLE, GREASE 1/4-28 STRAIGHT
28		3543521	3	SCREW, SET 1/2-13UNC x 1 1/4
29		3543523	1	RING, RETAINING INTERNAL
30		3543524	1	RING, RETAINING EXTERNAL
31		3543514	1	SLEEVE, WEAR SPINDLE UPPER
33		46527	27	C/SCR, SH 3/8-16UNC x 1 1/4 LG
34		44570	4	C/SCR, SH 3/8-16UNC x 3/4 LG
35		47226	14	C/SCR, SH 1/2-20UNF x 2 LG
36		44531	7	C/SCR, SH 1/2-13UNC x 1 1/2 LG
37		3543526	REF.	SEAL KIT, PQ CHUCK (Page 148)
38		3543774	REF.	SUPPORT PLT, PQ CHUCK
39		3543876	1	GREASE, ULTRA DUTY 14oz TUBE
Α		3543489	REF	BUSHING, BRQHP (UPPER)
В		3544188	REF	JAW SET, BRQHP
С		3543522	REF	BUSHING, BRQHP (LOWER)
D		3543301	REF	BUSHING, BW CSG, NRQHP (UPPER)
Е		3543471	REF	JAW SET, BW CSG, NRQHP ROD
F		3543303	REF	BUSHING, BW CSG, NRQHP (LOWER)



3542840 CHUCK ASM, PQ NITROGEN GAS LF70/LF140 (Rev H)

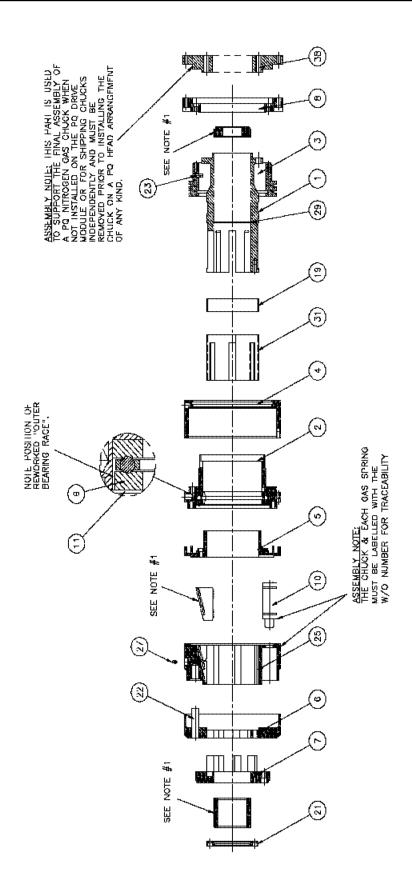


REF NO	REM	PART NUMBE	R QTY	DESCRIPTION	
G		3543299	REF	BUSHING, NW CSG, HRQHP (UPPER)	
Н		3543472	REF	JAW SET, NW CSG, HRQHP ROD	
I		3543300	REF	BUSHING, NW CSG, HRQHP (LOWER)	
J		3543298	REF	BUSHING, HWT CSG, PQ (UPPER)	
K		3543473	REF	JAW SET, HWT CSG, PQ ROD	





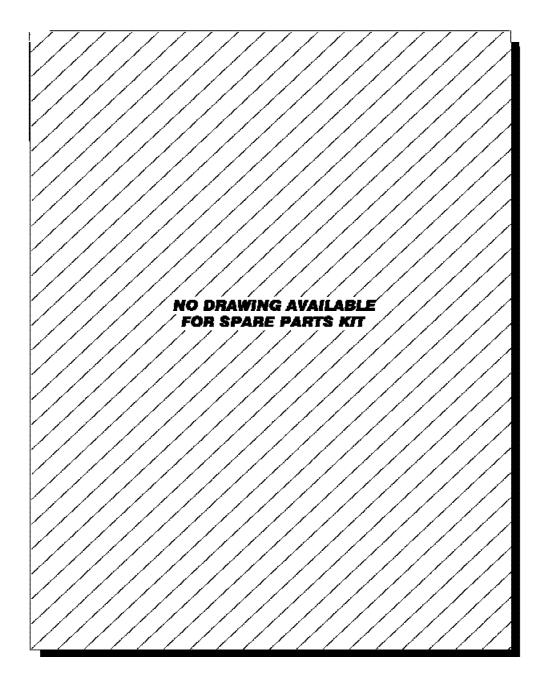
REF NO	REM	PART NUMB	ER QTY	DESCRIPTION
1		3543477	1	SPINDLE, PQ CHUCK NITRO
2		3543478	1	INNER CYLINDER, CHUCK NITRO
3		3543479	1	PISTON, PQ CHUCK NITRO
4		3543480	1	CYLINDER, OUTER CHUCK NITRO
5		3543481	1	LABRINTH SEAL, CHUCK NITRO
6		3543482	1	RETAINER, SPRING PQ CHUCK
7		3543483	1	RETAINER, JAW PQ CHUCK NITRO
8		3543490	1	ADAPTER, MTG CHUCK NITRO
9		3543496	1	BEARING, BALL THRUST
10		3543497	7	GAS SPRING, NITROGEN PQ CHUCK
11		3543499	1	RING, RETAINING INTERNAL
12		3543500	1	CUP SEAL, INNER URETHANE
13		3543501	2	CUP SEAL, OUTER URETHANE
14		3543502	1	CUP SEAL, PISTON URETHANE
15		3543503	1	O'RING, PQ CHUCK SPINDLE
17		3543505	1	O'RING, PQ CHUCK CYLINDER
18		3543506	1	RING, BACK-UP PQ CHUCK CYL
19		3543507	1	RING, SPINDLE WEAR LOWER
20		3543508	3	SEAL, OIL GUIDE PIN
21		3543509	1	BUSHING, RETAINER GUIDE
22		3543510	3	PIN, DOWEL 1 DIA x 3 1/2 LG
23		3543511	3	PIN, DOWEL 3/8 DIA x 1 LG
25		3543515	1	BOWL, PQ CHUCK NITRO
26		3543519	7	O'RING, GAS SPRING PQ CHUCK
27		3543520	10	NIPPLE, GREASE 1/4-28 STRAIGHT
28		3543521	3	SCREW, SET 1/2-13UNC x 1 1/4
29		3543523	1	RING, RETAINING INTERNAL
30		3543524	1	RING, RETAINING EXTERNAL
31		3543514	1	SLEEVE, WEAR SPINDLE UPPER
33		46527	27	C/SCR, SH 3/8-16UNC x 1 1/4 LG
34		44570	4	C/SCR, SH 3/8-16UNC x 3/4 LG
35		47226	14	C/SCR, SH 1/2-20UNF x 2 LG
36		44531	7	C/SCR, SH 1/2-13UNC x 1 1/2 LG
37		3543526	REF.	SEAL KIT, PQ CHUCK (Page 148)
38		3543774	REF.	SUPPORT PLT, PQ CHUCK
39		3543876	1	GREASE, ULTRA DUTY 14oz TUBE
Α		3543489	REF	BUSHING, BRQHP (UPPER)
В		3544188	REF	JAW SET, BRQHP
С		3543522	REF	BUSHING, BRQHP (LOWER)
D		3543301	REF	BUSHING, BW CSG, NRQHP (UPPER)
E		3543471	REF	JAW SET, BW CSG, NRQHP ROD
F		3543303	REF	BUSHING, BW CSG, NRQHP (LOWER)



3542840 CHUCK ASM, PQ NITROGEN GAS LF70/LF140 (Rev H)



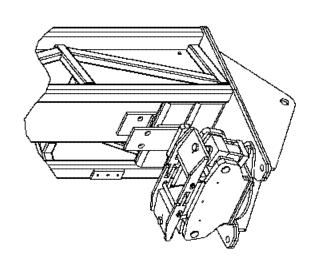
REF NO	REM	PART NUMBE	R QTY	DESCRIPTION	
G		3543299	REF	BUSHING, NW CSG, HRQHP (UPPER)	
Н		3543472	REF	JAW SET, NW CSG, HRQHP ROD	
1		3543300	REF	BUSHING, NW CSG, HRQHP (LOWER)	
J		3543298	REF	BUSHING, HWT CSG, PQ (UPPER)	
K		3543473	REF	JAW SET, HWT CSG, PQ ROD	

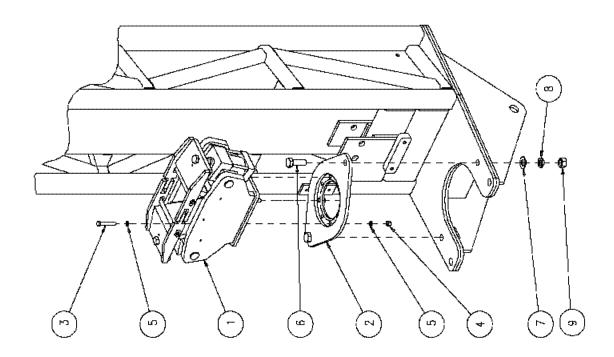




REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3543500	1	CUP SEAL, INNER URETHANE
2		3543501	2	CUP SEAL, OUTER URETHANE
3		3543502	1	CUP SEAL, PISTON URETHANE
4		3543503	1	O'RING, PQ CHUCK SPINDLE
5		3543504	1	RING, BACK-UP PQ CHUCK SPINDLE
6		3543505	1	O'RING, PQ CHUCK CYLINDER
7		3543506	1	RING, BACK-UP PQ CHUCK CYL
8		3543508	3	SEAL, OIL GUIDE PIN
9		3543519	7	O'RING, GAS SPRING PQ CHUCK

NOTE: PLUMBING INCLUDED IN BASIC DRILL



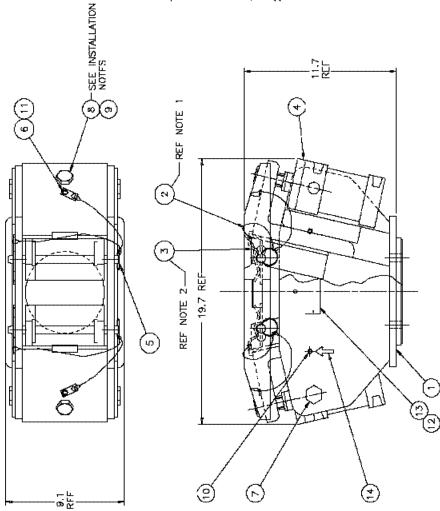




REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3548310	1	CLAMP MODULE, HYDRAULIC ROD (Page 152)
2		3547520	1	BASE, ROD CLAMP MOUNT
3		44532	4	C/SCR, HH 1/2-13UNC x 2-3/4
4		44525	4	NUT, HEX 1/2-13UNC
5		3544766	8	WASHER, NORD-LOCK 1/2"
6		28962	2	C/SCR. HH 7/8-9 UNC x 2 1/2 Lg.
7		27763	2	WASHER, FLAT, GR 8, Ø7/8
8		44643	2	L/WASHER, SPLIT SPRING Ø7/8
9		44601	2	HEXNUT, Ø7/8-9 UNC

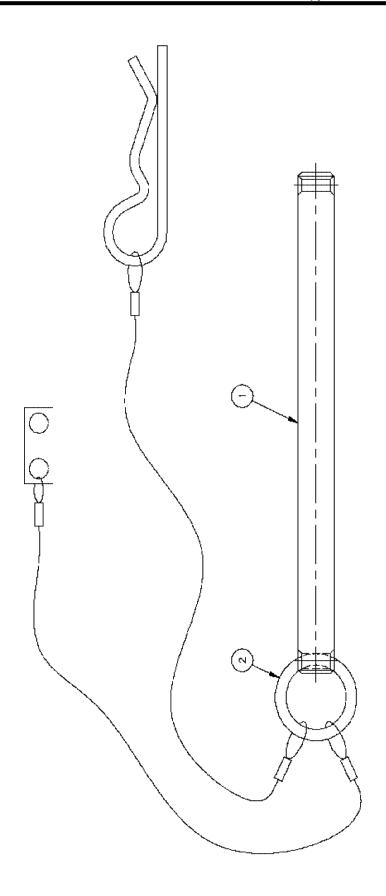


1. USED (WITHOUT ITEM 3) WITH SLIP SET FOR (4.5 TO 5.0" OD) 2. USED WITH SLIP SETS FOR (1.75 TO 3.69" OD)





REF NO	REM I	PART NUMBER	QTY	DESCRIPTION
1		102806	1	BOWL, ROD CLAMP
2		49937	2	GUIDE, WELD'T (SLIPS 4.5" to 5" OD) [Slips Ï4.5" to Ï5"]
3		3540049	2	ADAPTER (SLIPS 1.75-3.69 O.D.) [SLIPS 1.75-3.69 O.D.]
4		41621	2	CYLINDER, HYDRAULIC
5		3543253	2	PIN ASM, QUICK RELEASE CLAMP ASM
6		44954	2	C/SCR HH #10-24 UNC x 1/2LG
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	LOCKWASHER, Dia3/4
10		17447	4	FITTING, GREASE (Page 156)
11		44540	2	LOCKWASHER, #10
12		44891	1	PLATE, Q.C.
13		23183	2	SCREW, DRIVE
14		24586	1	DECAL SPEC (GREASE)

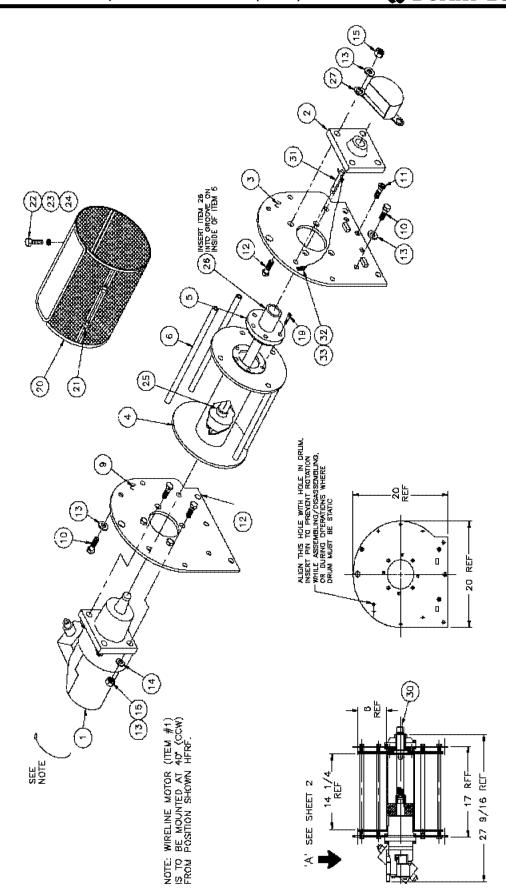


3543253 PIN ASM, QUICK RELEASE CLAMP ASM (Rev A)



REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3543254	1	PIN, QUICK RELEASE
2		3543255	1	LANYARD GROUP, QUICK PIN





Boart Longyear Inc. is constantly striving to improve its products and must therefore, reserve the right to change designs, materials, specifications and price without notice

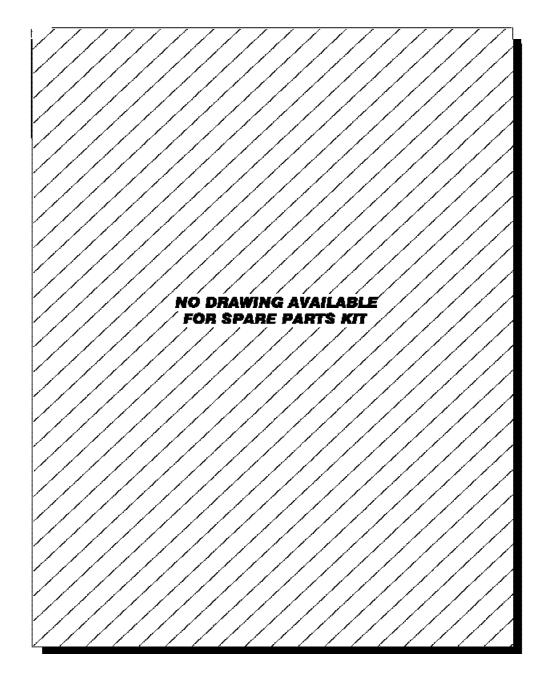


REF NO	REM PART NUMBER	QTY	DESCRIPTION
1	104862	1	MOTOR, HYDRAULIC
2	104859	1	4 BOLT FLANGE BEARING
3	306125	1	END PLATE (RHS)
4	306123	1	DRUM WELDMENT
5	104858	1	BEARING SHAFT
6	102725	9	SPACER BAR
7	104863	1	BODY, HYDRAULIC
8	3546773	2	CARTRIDGE, COUNTERBALANCE
9	306126	1	END PLATE (LHS)
10	44512	10	C/SCR, HH 3/8-16UNC x 1 LG
11	47266	8	C/SCR FLAT HD 3/8-16 x 3/4 Lg.
12	44640	8	C/SCR, HH 1/2-13 UNC x 1 3/4
13	44521	8	WASHER, LOCK 1/2 ID
14	44520	20	WASHER, 3/8 ID LOCK
15	44525	8	NUT, HEX 1/2-13UNC
16	63607	4	C/SCR SH 3/8-16 x 2 1/2 Lg.
17	44728	4	C/SCR HH 3/8-16 x 3 1/4 Lg.
18	44593	4	C/SCR, HH 3/8-16UNC x 1 1/4 - L.C. #90214-115
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" [Ï1/4]
22	44638	1	C/SCR HH, 3/8-16 x 2 3/4 Lg.
23	44520	9	WASHER, 3/8 ID LOCK
24	44527	1	NUT, HEX 3/8-16UNC
25	306129	1	RETAINING/DISASM. TOOL
26	37500	1	O-RING Dia1 1/2 I.D
27	306155	1	GUARD, BEARING W/L
28	306182	2	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 [Ï1/8 x 2 1/2" Lg.]
31	3540214	1	PIN, QUICK RELEASE, ASM.
32	44954	1	C/SCR HH #10-24 UNC x 1/2LG
33	44540	1	LOCKWASHER, #10
	306206	REF	Spare Parts Kit, Wireline Hoist (Rev B) (Page 162)
35	49799	1	ANCHOR, WIRELINE CABLE
36		1	SET SCREW, 1/4 x 3/8 LG

NOTE: FOR HYDRAULIC PIPING REFER TO DRAWING #3544286 VIEW ARROW 'B' SCALE: x3 NOTES SEE 00 $\overline{}$ <u>8</u> SEE NOTES (8)MAXIMUM OF 45—50 FTLBS TORQUE ON CARTRIDGES (IT.8). ENSURE THAT ALL PORTS ARE PLUGGED. (9) (38) E VIEW ARROW 'A' (ROTATED 180°)

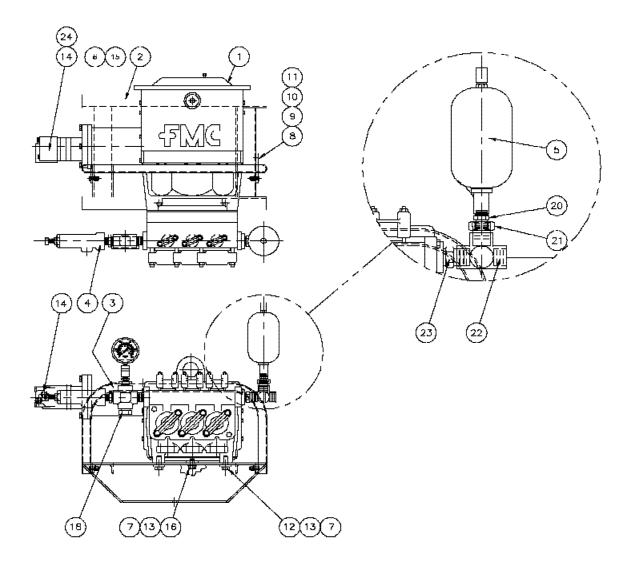


REF NO	REM PART NUMBER	QTY	DESCRIPTION
1	104862	1	MOTOR, HYDRAULIC
2	104859	1	4 BOLT FLANGE BEARING
3	306125	1	END PLATE (RHS)
4	306123	1	DRUM WELDMENT
5	104858	1	BEARING SHAFT
6	102725	9	SPACER BAR
7	104863	1	BODY, HYDRAULIC
8	3546773	2	CARTRIDGE, COUNTERBALANCE
9	306126	1	END PLATE (LHS)
10	44512	10	C/SCR, HH 3/8-16UNC x 1 LG
11	47266	8	C/SCR FLAT HD 3/8-16 x 3/4 Lg.
12	44640	8	C/SCR, HH 1/2-13 UNC x 1 3/4
13	44521	8	WASHER, LOCK 1/2 ID
14	44520	20	WASHER, 3/8 ID LOCK
15	44525	8	NUT, HEX 1/2-13UNC
16	63607	4	C/SCR SH 3/8-16 x 2 1/2 Lg.
17	44728	4	C/SCR HH 3/8-16 x 3 1/4 Lg.
18	44593	4	C/SCR, HH 3/8-16UNC x 1 1/4 - L.C. #90214-115
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" [Ï1/4]
22	44638	1	C/SCR HH, 3/8-16 x 2 3/4 Lg.
23	44520	9	WASHER, 3/8 ID LOCK
24	44527	1	NUT, HEX 3/8-16UNC
25	306129	1	RETAINING/DISASM. TOOL
26	37500	1	O-RING Dia1 1/2 I.D
27	306155	1	GUARD, BEARING W/L
28	306182	2	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 [Ï1/8 x 2 1/2" Lg.]
31	3540214	1	PIN, QUICK RELEASE, ASM.
32	44954	1	C/SCR HH #10-24 UNC x 1/2LG
33	44540	1	LOCKWASHER, #10
	306206	REF	Spare Parts Kit, Wireline Hoist (Rev B) (Page 162)
35	49799	1	ANCHOR, WIRELINE CABLE
36		1	SET SCREW, 1/4 x 3/8 LG



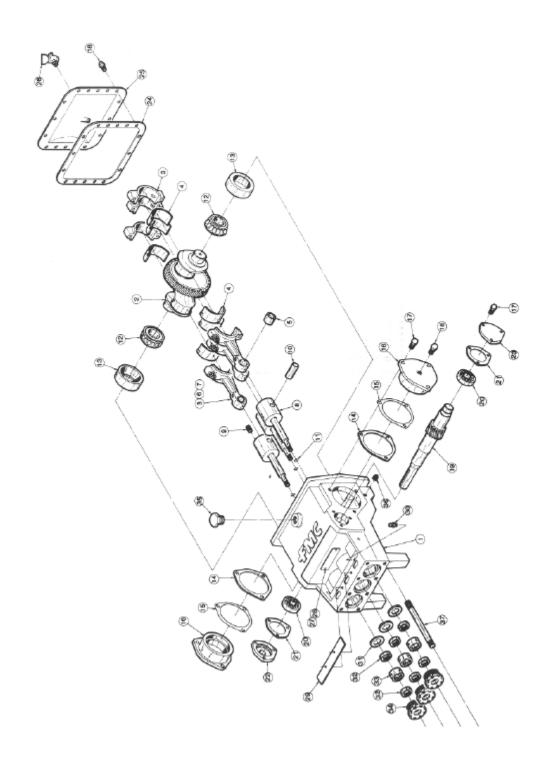


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		104859	1	4 BOLT FLANGE BEARING
3		306208	1	SEAL KIT
5		104864	1	CARTRIDGE





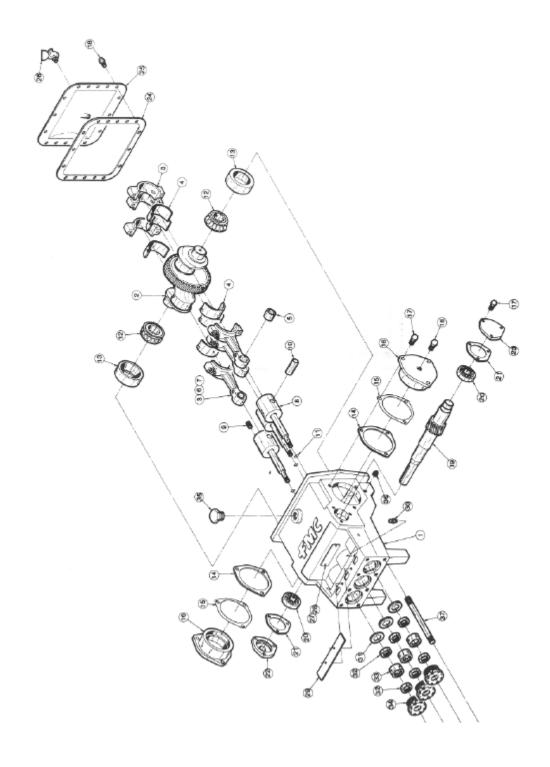
REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		24821	1	PUMP, WATER (W11)
2		3543281	1	SKID WELDMENT (W11)
3		3543282	1	BAR, LIFTING W11 PUMP
4		18185	1	DISCHARGE ASM, PUMP #20 NPT CONNECTIONS
5		3544479	1	ACCUMULATOR, 1 QUART
6		38298	1	PLATE, SUB/SMALL ASSEMBLY ID
7		19325	3	WASHER, BEVEL Dia5/8
8		44510	4	C/SCR, HH 1/2-13 NC x 1.5Lg.
9		17121	4	WASHER, BEVEL Dia1/2
10		44521	4	WASHER, LOCK 1/2 ID
11		44525	4	NUT, HEX 1/2-13UNC
12		44514	2	C/SCR, HH 5/8-11 UNC x 1 3/4"
13		44522	3	WASHER, LOCK 3/8 ID - L.C. #90343-8
14		3547406	1	DRIVE GROUP, WATER PUMP W11
15		23183	2	SCREW, DRIVE
16		44514	1	C/SCR, HH 5/8-11 UNC x 1 3/4"
17		14570	1	HOSE ASM, SUCTION 2" ID x 20 FT.
18		18183	1	PLUG, 1 1/4 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 (Single speed fluid pump)
25			1	NIPPLE, 2" NPT x 12" Lg. X.H.





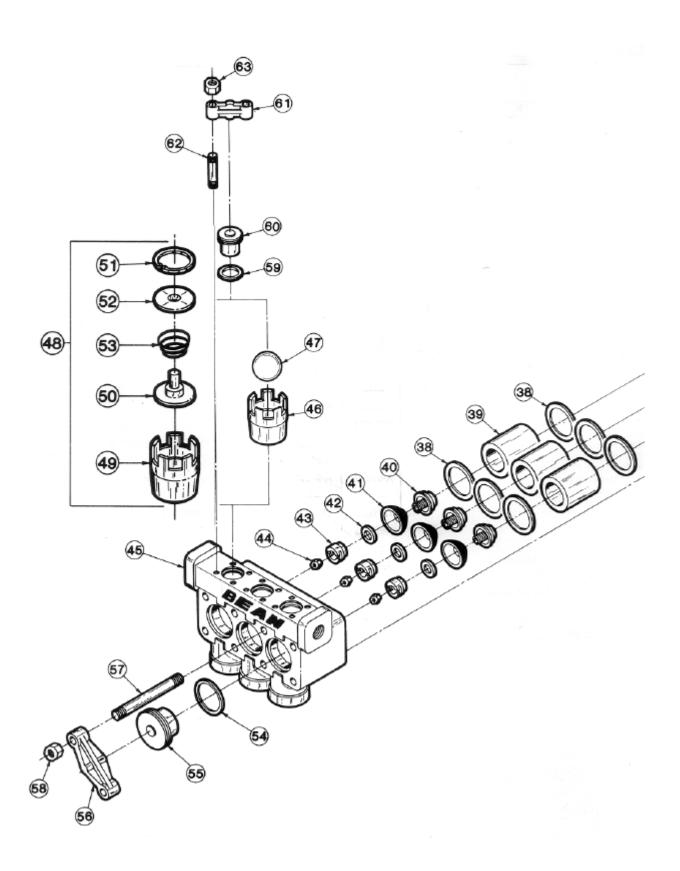
	•	, ,, ,		•
REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		79105	1	CASE, PUMP
2		79328	1	CRANKSHAFT
3		75077	3	ROD, CONNECTION
4		75033	3	INSERT, BEARING
5		75032	3	BUSHING, CONNECTION ROD
6		78547	6	BOLT, CONNECTION ROD
7		60899	6	LOCKNUT, 1/2-20 UNF
8		75072	3	CROSSHEAD & ROD ASSEMBLY
9		79904	6	S/SCR, SH 5/16-18 UNC x 5/16
10		75076	3	WRIST-PIN
11		79327	3	O-RING, PACKING (5/8 x 1/16)
12		79121	3	CONE, BEARING
13		79120	2	CUP, BEARING
14		75044	2	GASKET, CRANKSHAFT BEARING
15		79113	1	SHIM, .005
16		79114	2	HOUSING, CRANKSHAFT BEARING
17		44530	12	C/SCR, HH 1/2-13UNC x 1 1/4
18		44529	18	C/SCR, HH 1/2-13UNC x 3/4"
19		79116	1	SHAFT, PINION
20		18208	2	BEARING, CRANKSHAFT BALL
21		75043	2	GASKET, PINION BEARING
22		79109	1	CAP, BEARING PINION
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		79321	6	SEAL, OIL
33		79320	3	SLEEVE, PACKING NUT
34		79326	3	NUT, PLUNGER ROD
35		79081	1	CAP, OIL FILTER
36		79112	2	PLUG, PIPE
37		75041	6	STUD, LONG (5/8" dia.)
38		79322	6	GASKET, CYLINDER JOINT
39		79103	3	CERAMIC LINED STEEL
40		75037	3	CUP, PLUNGER
41		75003	3	PACKING, NEOPRENE
42		75062	3	WASHER, PLUNGER CUP
43		75012	3	NUT, PLUNGER





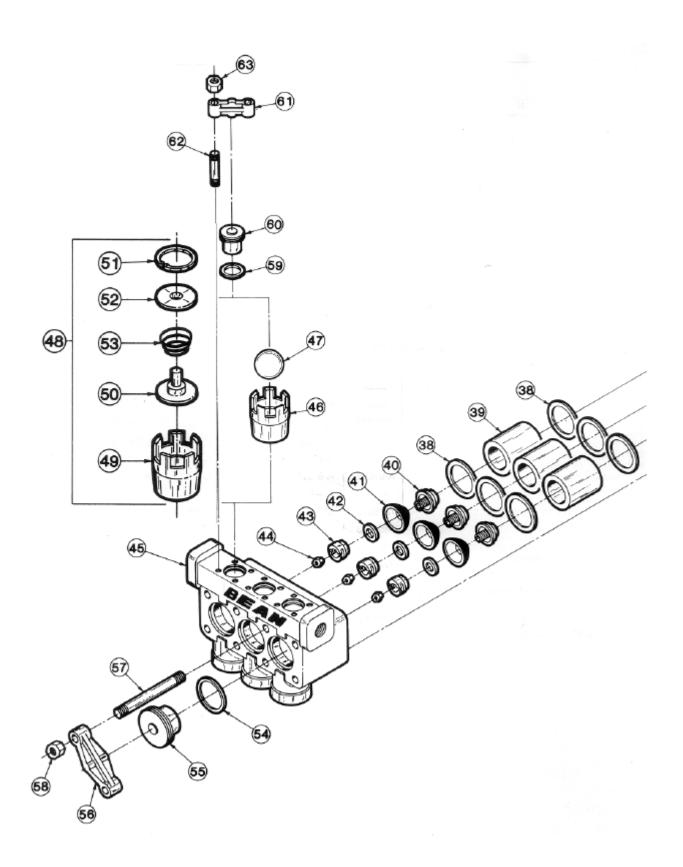


REF NO	REM	PART NUMBE	R QTY	DESCRIPTION
44		75027	3	NUT, SPECIAL
45		79325	1	VALVE, CHAMBER
46		79324	6	VALVE SEAT, BALL
47		26157	6	BALL, 1-1/8" DIA.
54		79323	3	GASKET, CYLINDER HEAD
55		63684	3	COVER, CYLINDER
56		79101	3	CLAMP, CYLINDER HEAD
57		75042	2	STUD, CYLINDER
58		44526	8	NUT, HH 5/8-11 UNC
59		79334	3	GASKET, VALVE COVER
60		79882	3	VALVE, COVER
61		78541	3	CLAMP, VALVE COVER
62		75022	6	STUD, 1/2 X 3-1/4"
63		44525	6	NUT, HEX 1/2-13UNC
64		28097	2	PLUG, 2" NPT PIPE
65		18183	1	PLUG, 1 1/4 NPT
66		75019	1	PLUNGER, CAP REMOVER
67		79333	1	VALVE SEAT REMOVER
68		36686	REF	Spare Parts Kit, W11 Water Pump (Rev A) (Page 174)



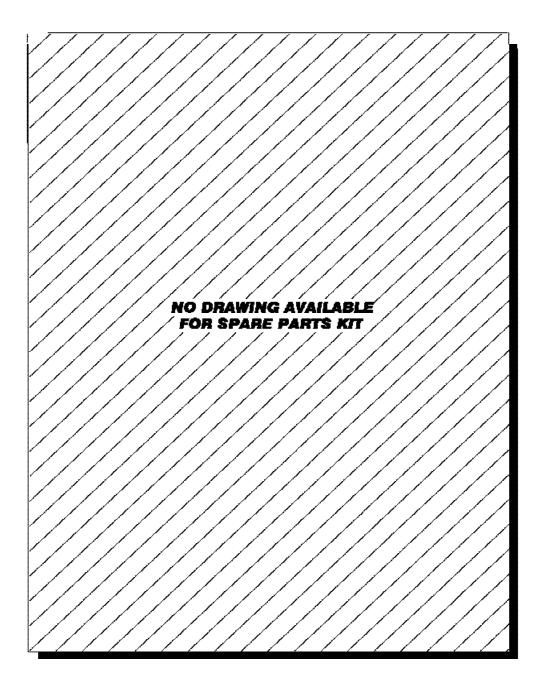


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
KEI NO	KEW	PART NOMBER	Q I I	DECORIF HON
1		79105	1	CASE, PUMP
2		79328	1	CRANKSHAFT
3		75077	3	ROD, CONNECTION
4		75033	3	INSERT, BEARING
5		75032	3	BUSHING, CONNECTION ROD
6		78547	6	BOLT, CONNECTION ROD
7		60899	6	LOCKNUT, 1/2-20 UNF
8		75072	3	CROSSHEAD & ROD ASSEMBLY
9		79904	6	S/SCR, SH 5/16-18 UNC x 5/16
10		75076	3	WRIST-PIN
11		79327	3	O-RING, PACKING (5/8 x 1/16)
12		79121	3	CONE, BEARING
13		79120	2	CUP, BEARING
14		75044	2	GASKET, CRANKSHAFT BEARING
15		79113	1	SHIM, .005
16		79114	2	HOUSING, CRANKSHAFT BEARING
17		44530	12	C/SCR, HH 1/2-13UNC x 1 1/4
18		44529	18	C/SCR, HH 1/2-13UNC x 3/4"
19		79116	1	SHAFT, PINION
20		18208	2	BEARING, CRANKSHAFT BALL
21		75043	2	GASKET, PINION BEARING
22		79109	1	CAP, BEARING PINION
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		79321	6	SEAL, OIL
33		79320	3	SLEEVE, PACKING NUT
34		79326	3	NUT, PLUNGER ROD
35		79081	1	CAP, OIL FILTER
36		79112	2	PLUG, PIPE
37		75041	6	STUD, LONG (5/8" dia.)
38		79322	6	GASKET, CYLINDER JOINT
39		79103	3	CERAMIC LINED STEEL
40		75037	3	CUP, PLUNGER
41		75003	3	PACKING, NEOPRENE
42		75062	3	WASHER, PLUNGER CUP
43		75012	3	NUT, PLUNGER



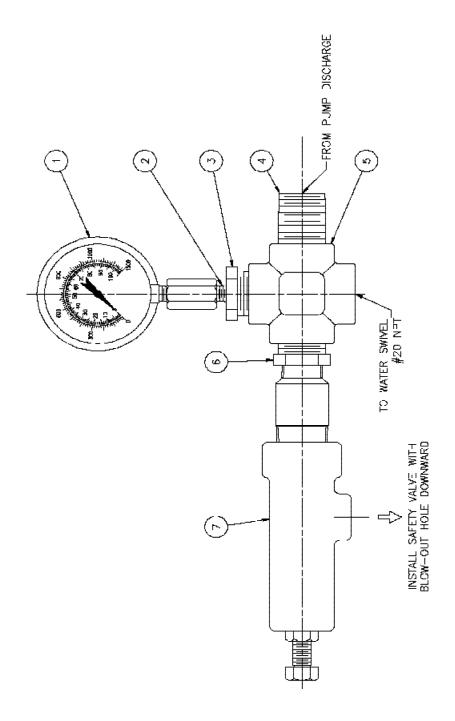


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
44		75027	3	NUT, SPECIAL
45		79325	1	VALVE, CHAMBER
46		79324	6	VALVE SEAT, BALL
47		26157	6	BALL, 1-1/8" DIA.
54		79323	3	GASKET, CYLINDER HEAD
55		63684	3	COVER, CYLINDER
56		79101	3	CLAMP, CYLINDER HEAD
57		75042	2	STUD, CYLINDER
58		44526	8	NUT, HH 5/8-11 UNC
59		79334	3	GASKET, VALVE COVER
60		79882	3	VALVE, COVER
61		78541	3	CLAMP, VALVE COVER
62		75022	6	STUD, 1/2 X 3-1/4"
63		44525	6	NUT, HEX 1/2-13UNC
64		28097	2	PLUG, 2" NPT PIPE
65		18183	1	PLUG, 1 1/4 NPT
66		75019	1	PLUNGER, CAP REMOVER
67		79333	1	VALVE SEAT REMOVER
68		36686	REF	Spare Parts Kit, W11 Water Pump (Rev A) (Page 174)





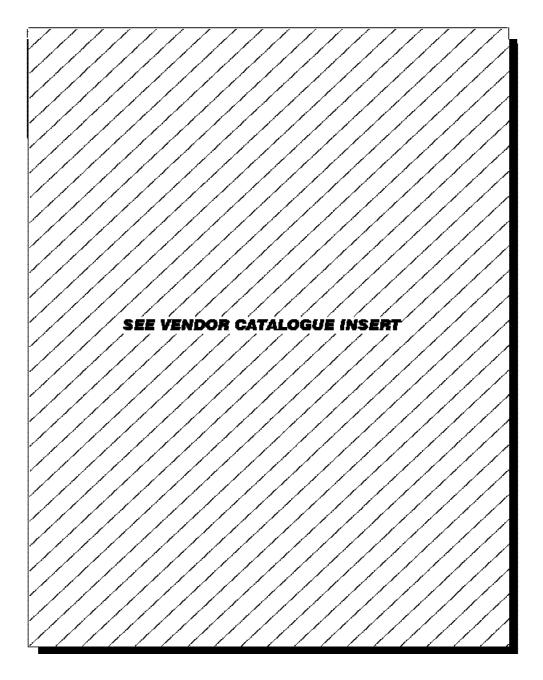
REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		79321	6	SEAL, OIL
2		79103	3	CERAMIC LINED STEEL
3		75070	3	GASKET, CYLINDER
4		75071	24	GASKET, FUEL INJ PUMP
5		79324	6	VALVE SEAT, BALL
6		26157	6	BALL, 1-1/8" DIA.
7		75069	12	GASKET, VALVE COVER
8		79606	12	PACKING, PLUNGER CUP
9		75012	3	NUT, PLUNGER
10		79327	3	O-RING, PACKING (5/8 x 1/16)



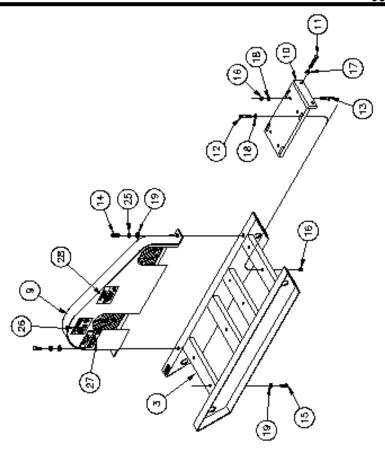
18185 DISCHARGE ASM, PUMP #20 NPT CONNECTIONS (Rev D) BOART LONGYEAR

REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		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		72-00-018	1	VALVE, PRESSURE RELIEF

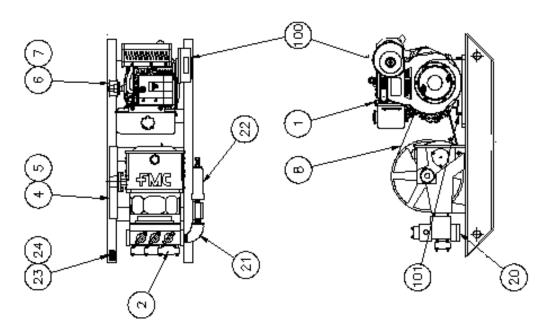








OUTPUT: 76 I/m @ 35 Bar (20GPM @ 500 psi)
WEIGHT: 240 Kg (530 lbs)
ENGINE: KUBOTA 0C95, 6KW (8 HP)
PUMP: FMC MODEL L09
GEARBELT REDUCTION: 4.8:1

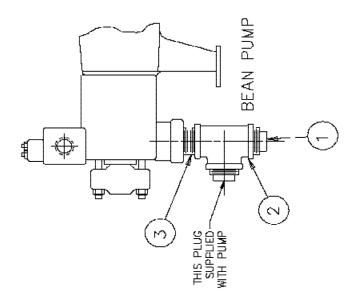


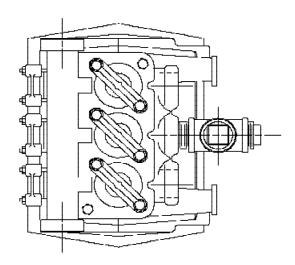
3670446 PUMP MODULE, 420 DIESEL POWERED [FMC L09] (Rev BOART LONGYEAR

REF NO	REM	PART NUMBI	ER QTY	DESCRIPTION
1	V	3670437	1	ENGINE, KUBOTA DIESEL
2		36618	1	PUMP [FMC-L09]
3		3670438	1	WELDMENT, SKID
4		3670439	1	PULLEY, DRIVEN
5		3670440	1	BUSHING, DRIVEN 1-1/8 X1/4kw
6		3670441	1	PULLEY, DRIVER
7		3670442	1	BUSHING, DRIVER 1" X 1/4"kw
8		3670443	1	BELT, DRIVE
9		3670444	1	WELDMENT, BELT GUARD
10		3670445	1	PLATE, MOTOR MOUNTING
11		44532	2	C/SCR, HH 1/2-13UNC x 2-3/4
12		44595	4	HHCS, 3/8-16 UNC x 2-1/2" lg.
13		44600	4	HHCS, 3/8"-16 UNC x 2" lg.
14		44513	2	C/SCR, HH 1/2-13 UNC x 1 GR8
15		44640	4	C/SCR, HH 1/2-13 UNC x 1 3/4
16		104024	8	NUT, HEX (NYLOCK) 3/8-16UNC [Nyloc]
17		44525	2	NUT, HEX 1/2-13UNC
18		44611	8	WASHER, FLAT 3/8 ID
19		44647	6	WASHER, 1/2 ID FLAT
20		27627	1	INTAKE ASSEMBLY, SUCTION (Page 182)
21		21411	1	ELBOW, STREET [1"NPT x 1"NPT (F)
22		18040	1	DISCHARGE ASM, PUMP #16 NPT CONNECTIONS (Page 184)
23		38298	1	PLATE, SUB/SMALL ASSEMBLY ID
24		23183	1	SCREW, DRIVE
25		44521	2	WASHER, LOCK 1/2 ID
26		3670573	1	DECAL, "Keep Guards In Place"
27		3670574	1	DECAL, "Read Instructions"
28		3670575	1	DECAL, "Wear Safety Equipment"
29	*	21769	1	CABLE, BATTERY GROUND [27" Lg.]
30	*	21568	1	CABLE, BATTERY POS [27" Lg.]
31	*	18902	1	HOSE, SUCTION [1-1/2" ID x 15 ft. Lg.]
32	*	568388	1	END CONNECTOR, MALE [1" NPT]
33	*	103748	1	HOSE, SUPPLY [1" ID x 100 ft. Lg.]
100		3670572	REF	FILTER, AIR
101		3670571	REF	FILTER, OIL
102	*	3570576	REF	PUMP, ELECTRIC [12VDC]
103		36685	REF	Spare Parts Kit, Water Pump [FMC Model L09] (Page 186)
			••	, , , , , , , , , , , , , , ,

^{*)} Indicates items not shown on drawing.

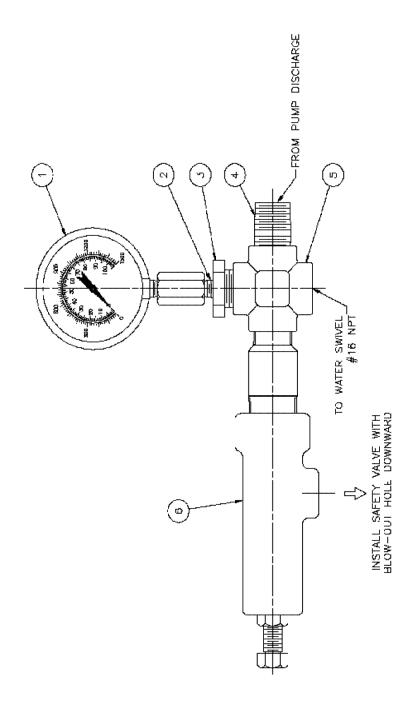
V) See VENDOR literature.





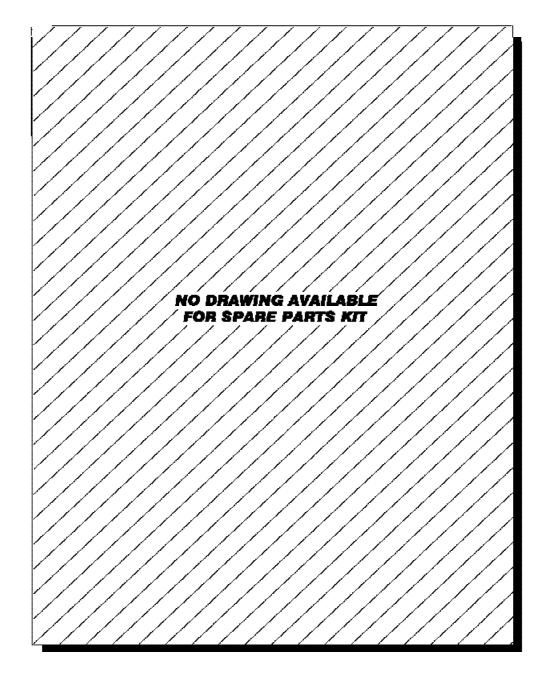


REF NO	REM	PART NUMBER	QTY	DESCRIPTION	
1		18475	1	PLUG, SQ HD [1 1/2 NPT]	
2		18680	1	TEE (1-1/2 NPT)	
3		17666	1	NIPPLE, CLOSE (1-1/2 NPT STD.)	



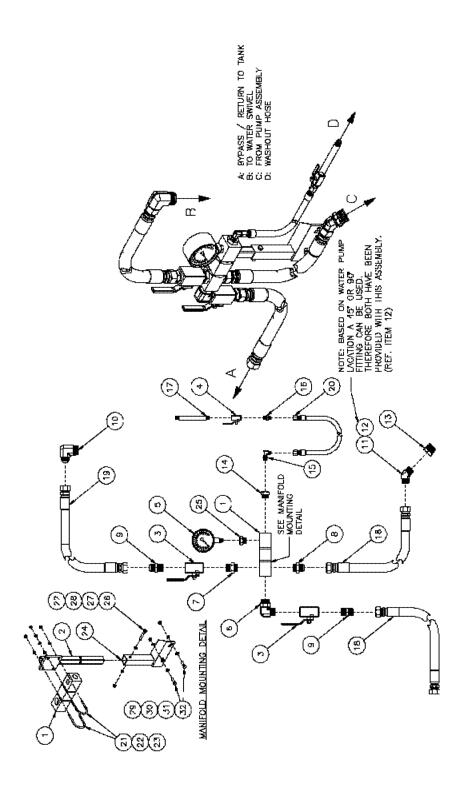
18040 DISCHARGE ASM, PUMP #16 NPT CONNECTIONS (Rev B) **POART LONGYEAR**

REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		19163	1	GAUGE, PRESSURE
2		17905	1	NIPPLE, CLOSE #8 NPT XH
3		18867	1	BUSHING, HEX PIPE #16 x #8 NPT
4		19612	1	NIPPLE, #16 NPT x 2 LG XH
5		18175	1	CROSS, PIPE #16 NPT
6		72-00-018	1	VALVE, PRESSURE RELIEF



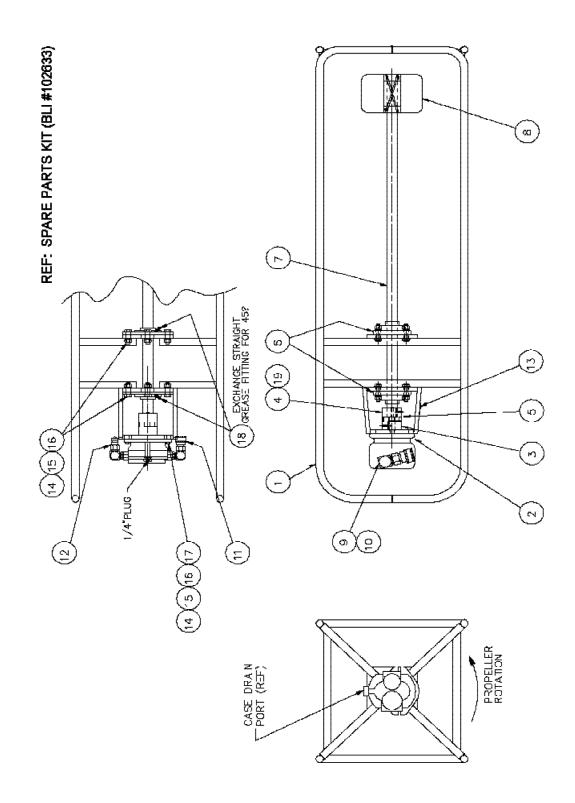


REF NO	REM	PART NUMBER	RQTY	DESCRIPTION
1		79321	6	SEAL, OIL
2		79066	3	CYLINDER, STEEL [Backer/Ceramic]
3		75066	3	GASKET, CYLINDER
4		75068	24	GASKET, CYLINDER HEAD
5		21836	6	SEAT, VALVE [Mud Type]
6		25397	6	VALVE, BALL
7		75067	12	GASKET, VALVE COVER
8		79607	12	PACKING, COBOXILATED [Plunger Cup]
9		75012	3	NUT, PLUNGER
10		79327	3	O-RING, PACKING (5/8 x 1/16)
11		79335	3	HOLDER, SEAL [Packing]



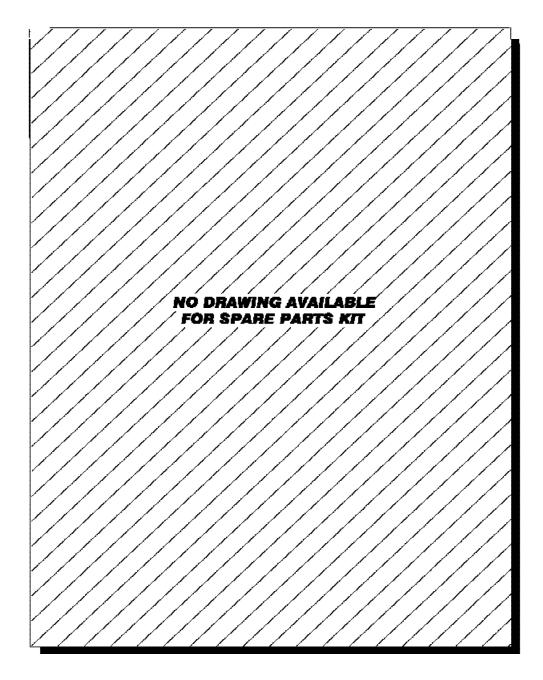


REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547467	1	MANIFOLD, WATER PUMP BLOCK
2		3540368	1	STAND WELDMENT
3		3547478	2	VALVE, BALL 1" NPT (2000PSI RATED)
4		3547479	1	VALVE, BALL 1/2" NPT (2000PSI RATED)
5		19163	1	GAUGE, PRESSURE
6			1	ADAP, HYD 16 ORB x 16 NPT 90°
7			1	ADAP, HYD 16 ORB x 16 NPT
8		25470	1	ADAP, HYD 16JIC x 16 ORB
9		19971	2	ADAP, HYD 16 JIC x 16 NPT
10		44080	1	ADAP, HYD 16 JIC x 20 NPT
11		22508	1	ADAP, HYD 16 JIC x 16 NPT 45°
12		25475	1	ADAP, HYD 16 JIC x 16 NPT 90°
13		34083	1	ADAP, HYD 20 NPT x 16 NPT (F)
14		36466	1	ADAP, HYD 12 ORB x 6 ORB (F)
15		36478	1	ADAP, HYD #6 JIC x #6 ORB x 90Deg
16		39014	1	ADAP, HYD 6 JIC x 8 NPT
17		20827	1	NIPPLE, PIPE 8 NPT x 6 Lg.
18		33074	2	HOSE ASM 16 x 300 Lg.
19		63789	1	HOSE ASM, 1" ID x 39FT LG.
20		3541057	1	HOSE ASM 3/8" IDx 270 LG
21		28809	2	U-BOLT 1 1/2" PIPE
22		46510	5	WASHER, FLAT, GR8, 5/16
23		44567	4	NUT, HEX 1/4-20UNC
24		3540369	1	SOCKET TUBE & COOLER BRACKET
25		89171	1	ADAP, HYD #8 ORB x #8 NPT (F)
26		44673	1	C/SCR, HH 5/16UNC x 2 LG
27		44519	1	L/WASHER, 5/16 SAE G8
28		44552	1	NUT, 5/16UNC
29		44593	2	C/SCR, HH 3/8-16UNC x 1 1/4 - L.C. #90214-115
30		44611	2	WASHER, FLAT 3/8 ID
31		44520	2	WASHER, 3/8 ID LOCK
32		103968	2	NUT, HEX 3/8-16UNC



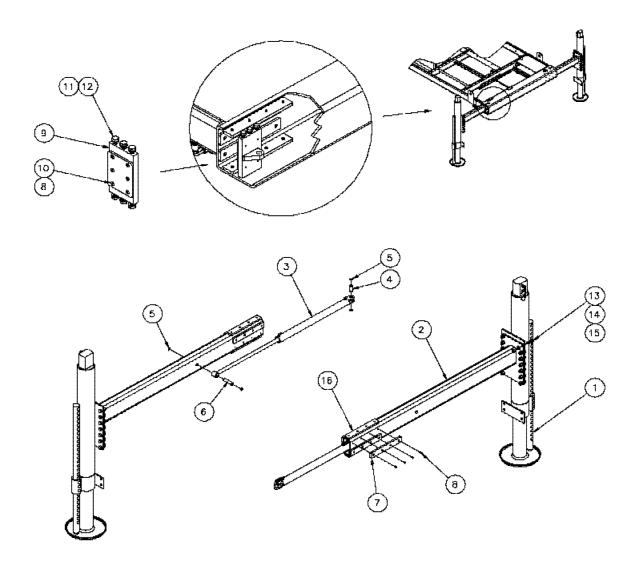


REF NO	REM	PART NUMBER	RQTY	DESCRIPTION
1		101486	1	SUPPORT ASSEMBLY, BEARING
2		101491	1	MOTOR, HYDRAULIC
3		101557	1	COUPLER, JAW [Rework]
4		101490	1	COUPLER, JAW
5		101494	1	SPIDER, RUBBER
6		101493	2	BEARING, BALL FLANGE
7		101488	1	SHAFT, MUD MIXER
8		101492	1	PROPELLER WELDMENT
9		102190	2	ADAPT, HYD #8 SAE x 1/2" NPT x 90¦
10		34214	2	ADAP, HYD 12 ORB - 8 ORB F
11		101536	1	COUPLER, HALF, FEMALE 1/2" NPT
12		101537	1	COUPLER, HALF, MALE 1/2" NPT
13		38298	1	PLATE, SUB/SMALL ASSEMBLY ID
14		44536	10	C/SCR, HH 3/8-16UNC x 1-1/2
15		44520	10	WASHER, 3/8 ID LOCK
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.
		102633	REF	Spare Parts Kit, Mud Mixer (Page 192)



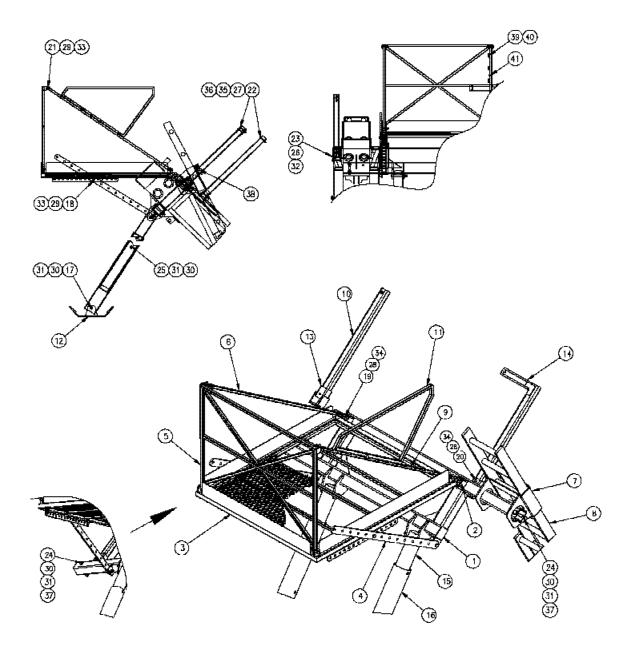


REF NO	REM	PART NUMBER	RQTY	DESCRIPTION
1		101557	1	COUPLER, JAW [Rework]
2		101494	1	SPIDER, RUBBER
3		101490	1	COUPLER, JAW
4		96770	1	Seal Kit, Cartridge Valve 100214 & 215 M/L Hoist
5		96653	1	Seal Plate Kit, Body Valve (100211) W/L Hoist



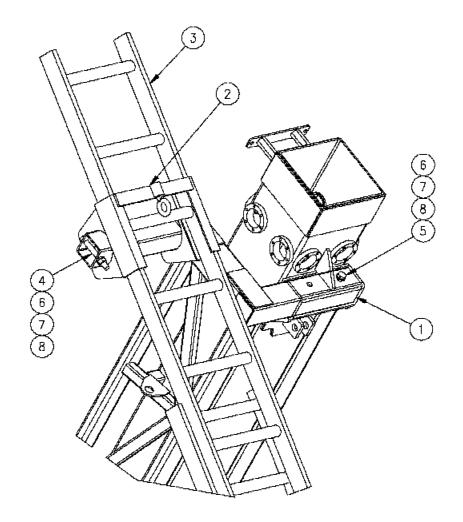
3547654 HYDRAULIC OUTRIGGERS & JACKS (INCLUDES CONTRE BOART LONGYEAR

REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3541598	4	LEG, STABILIZER OUTRIGGER
2		3547209	4	WELDMENT, OUTRIGGER TUBE
3		3547210	4	CYLINDER, OUTRIGGER
4		3547463	4	PIN, OUTRIGGER
5			16	CLIP, RETAINING
6			1	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





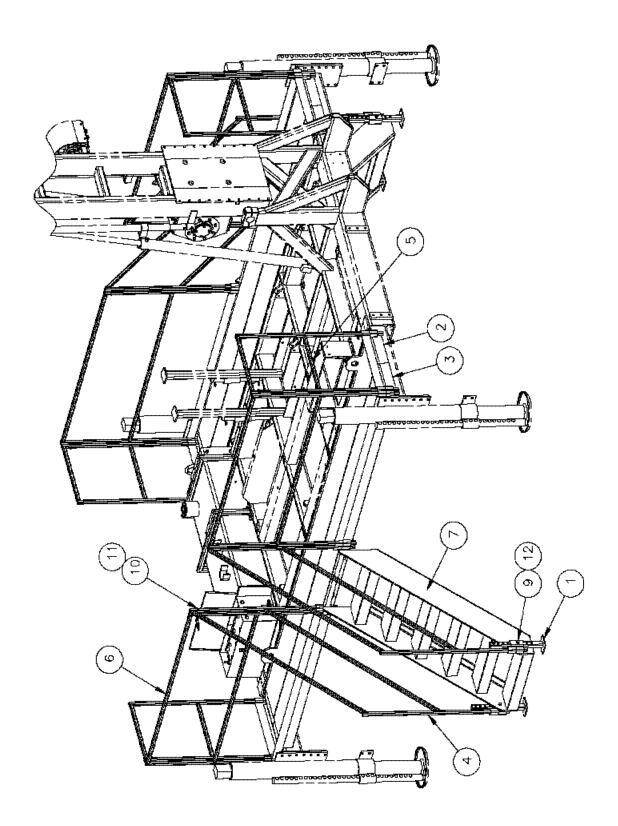
REF NO	REM	PART NUMBE	R QTY	DESCRIPTION
1		3547959	1	WELDMENT, RODRACK MAIN
2		3547960	2	WELDMENT, RODRACK ADJUSTMENT
3		3547649	1	PLATFORM
4		3547643	2	BAR, PLATFORM STABILIZER
5		61588	1	RAILING, PLATFORM
6		3547650	1	BRACE, RAILING
7		3543138	1	BRACKET, LADDER SLIDE
8		3541854	1	LADDER, EXTENSION (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 1/2-13UNC x 3 1/2
20		44578	1	C/SCR, HH 1/2-13UNC 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 3/4-10 x 6 1/2 Lg. GR. 8
25		3540630	4	C/SCR, HH 3/4-10 UNC x 7.0 Lg 3/4-10 UNC x 7"
26		44519	3	L/WASHER, 5/16 SAE G8
27		44520	2	WASHER, 3/8 ID LOCK
28		44521	3	WASHER, LOCK 1/2 ID
29		44522	12	WASHER, LOCK 3/8 ID - L.C. #90343-8
30		44523	8	LOCKWASHER, Dia3/4
31		44524	8	NUT, HEX 3/4-10 UNC
32		44552	3	NUT, 5/16UNC
33		44526	12	NUT, HH 5/8-11 UNC
34		44525	3	NUT, HEX 1/2-13UNC
35		44527	2	NUT, HEX 3/8-16UNC
36		44859	2	WASHER, FLAT GR 8 3/8
37		46091	2	WASHER, FLAT Dia3/4 (SAE)
38		3541238	1	BOLT, EYE SHOULDER 3/4-10UNC
39		22351	4	PIN, CLEVIS 3/16 DIA x 2
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)



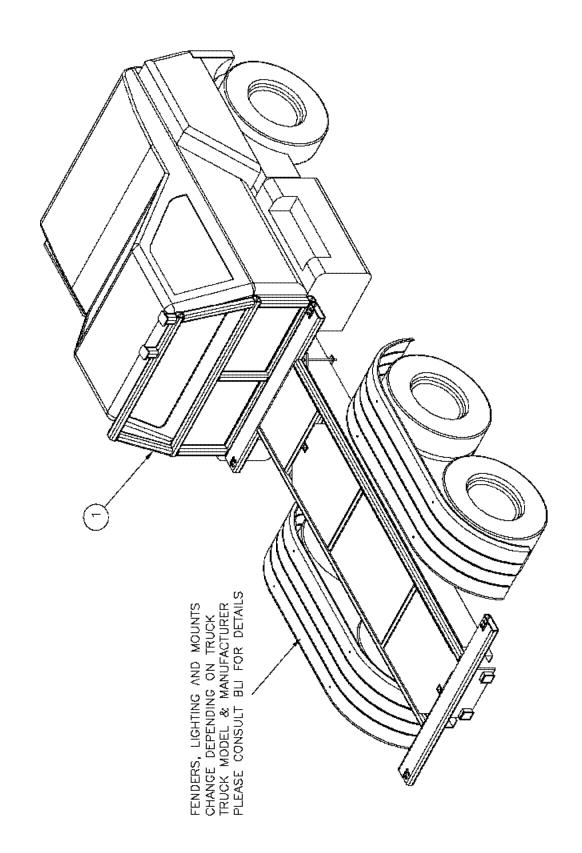
REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3547753	1	SUPPORT, LADDER
2		3543138	1	BRACKET, LADDER SLIDE
3		3541854	1	LADDER, EXTENSION (28') [28']
4		39797	1	C/SCR, HH 3/4-10 x 6 Lg. GR.8
5		60417	1	C/SCR, HH 3/4-10 x 6 1/2 Lg. GR. 8
6		44523	2	LOCKWASHER, Dia3/4
7		44524	2	NUT, HEX 3/4-10 UNC
8		46091	2	WASHER, FLAT Dia3/4 (SAE)
9		3541238	1	BOLT, EYE SHOULDER 3/4-10UNC



3548052 CATWALK/STAIRS (INCLUDES HANDRAILS & STAIRS)



REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		3544114	4	SUPPORT LEG, STAIRS
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 3/8-16UNC x 1 LG
9		44602	4	C/SCR, HH 1/2-13 UNC x 3 GR8
10		44649	8	C/SCR, HH 1/4-20 UNC
11		44567	8	NUT, HEX 1/4-20UNC
12		44525	4	NUT, HEX 1/2-13UNC
13		44527	6	NUT, HEX 3/8-16UNC

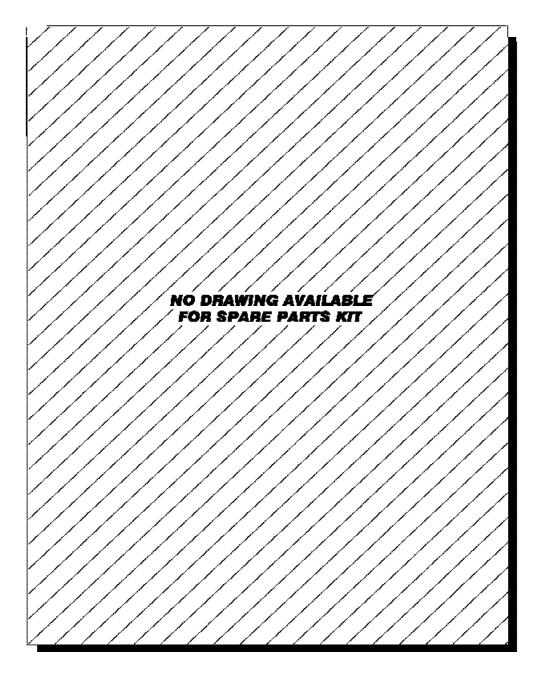






3547240 Spare Part Kit, Cummins (Minor spares)

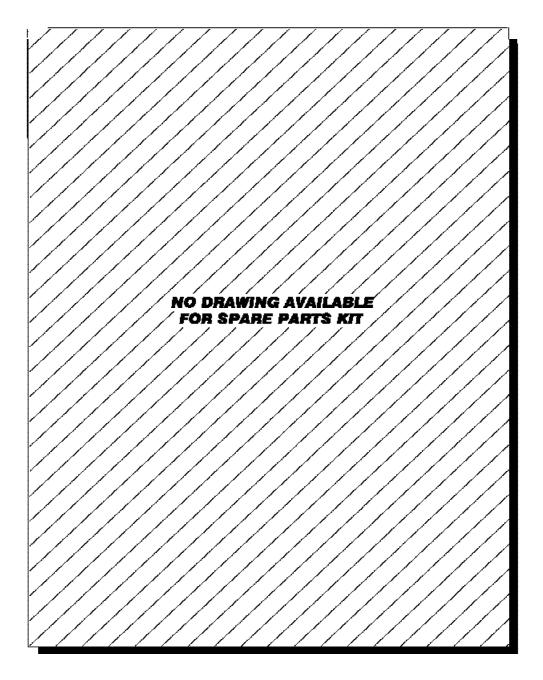




102630 Spare Parts Kit, Fluid Circulation Grp [FMC L09] (Rev Rev BOART LONGYEAR

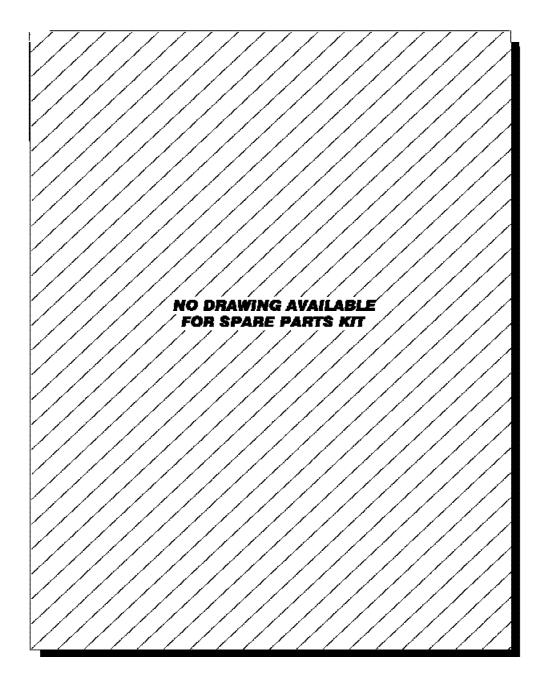
REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		100625	1	COUPLING HUB, 1 BORE [Ï1" Bore]
2		100627	1	INSERT COUPLING
3		100787	1	COUPLING HUB, Ï1 1/8" BORE [Rework]
4		19163	1	GAUGE, PRESSURE
5	K	36685	1	Spare Parts Kit, Water Pump [FMC Model L09]

K) Select appropriate 'note' (in CATBASE) to view KITcontents. (i.e. Spares/Conversion)



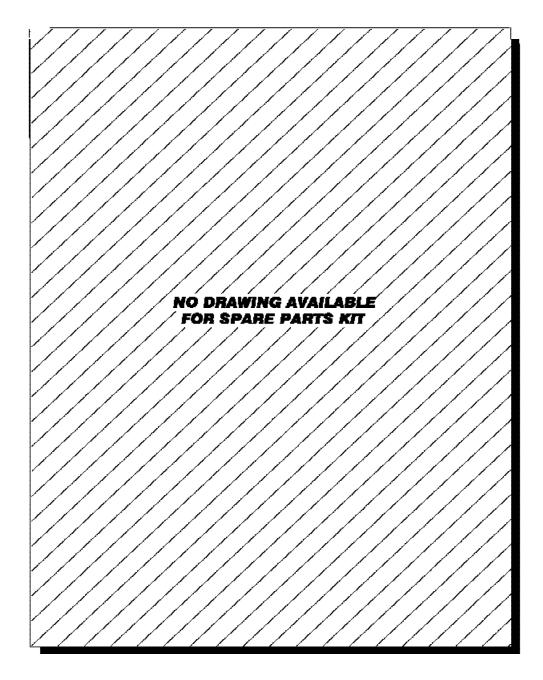
102631 Spare Parts Kit, Fluid Circulation Grp [FMC W11] (Rev & BOART LONGYEAR

REF NO	REM	PART NUMBER	RQTY	DESCRIPTION
1		100625	1	COUPLING HUB, 1 BORE [Ï1" Bore]
2		100627	1	INSERT COUPLING
3		102136	1	COUPLING HUB, 1 1/2 BORE
4		19163	1	GAUGE, PRESSURE
5		36686	1	Spare Parts Kit, W11 Water Pump (Rev A) (Page 174)





REF NO	REM	PART NUMBER	QTY	DESCRIPTION
1		75012	3	NUT, PLUNGER
2		75027	3	NUT, SPECIAL
3		79903	3	CYLINDER
4		75004	3	CUP, PLUNGER [L09 NIT/FAB]
5		75028	3	CUP, PLUNGER
6		75059	3	WASHER, PACKING





REF NO	REM	PART NUMBER	RQTY	DESCRIPTION	
1		96770	1	Seal Kit, Cartridge Valve 100214 & 215 M/L Hoist	
2		101536	1	COUPLER, HALF, FEMALE 1/2" NPT	
3		101537	1	COUPLER, HALF, MALE 1/2" NPT	
4		34956	2	Spare Parts Kit, Cylinder Assembly	

BLI PART NO.	DESCRIPTION	PAGE
100028	MOTOR SUPPORT	13
100176	MANIFOLD, FEED CYLINDER	41
100184	PUMP, AUXILIARY 70122 [Secondary]	35
100226	VALVE, SEQUENCE MUD MIXER	63
100229	VALVE, CONTROL ROTATION PRESS [Rotation]	63
100230	PLATE, CROSSOVER	63
100231	VALVE, PRESS. REDUCING/RELIEVING	63
100265	CAP, MAST MOUNTING SWIVEL	7
100290	CAP, FILLER BREATHER [Fuel Tank]	21
100293	COUPLING, FLYWHEEL	35
100327	COVER, SERVICE	137
100608	NUT, STUD #10-24 UNC	63
100625	COUPLING HUB, 1 BORE [Î1" Bore]	207,209
100627	INSERT COUPLING	207
100705	CARTRIDGE, VALVE HOIST BRAKE	63
100787	COUPLING HUB, Ï1 1/8" BORE [Rework]	207
100854	GEAR, SUN OUTPUT	13
100879	PAD, WEAR	47
100996	FITTING, HOSE END	21
101029	ADAP, HYD #12 ORB x #12 NPT	165
101061	LOCKNUT, 1/2-13UNC STOVER [Stover]	47
101409	COVER GEAR SIDE, CLUTCH SHAFT	13
101486	SUPPORT ASSEMBLY, BEARING	191
101488	SHAFT, MUD MIXER	191
101490	COUPLER, JAW	191,193
101491	MOTOR, HYDRAULIC	191 191
101492	PROPELLER WELDMENT	191
101493 101494	BEARING, BALL FLANGE SPIDER, RUBBER	191
101536	COUPLER, HALF, FEMALE 1/2" NPT	191,213
101537	COUPLER, HALF, MALE 1/2" NPT	191
101557	COUPLER, JAW [Rework]	191
101644	PLUG, #10 SAE ORB	51,57
101664	VALVE, BODY HOIST BRAKE RELEASE	63
101878	VALVE, FEED MUD MIXER	63
101963	STUD, #10-24UNC x 4.75 LG	63
102017	HOSE, CLEAR, 3/8 ID [Ï3/8]	21
102113	CLIP, HITCH PIN	51
102136	COUPLING HUB, 1 1/2 BORE	209
102166	C/SCR, FLAT HD. 1/4-20 x 1/2"	47
102190	ADAPT, HYD #8 SAE x 1/2" NPT x 90¦	191
102218	C/SCR, HH 3/4-16 UNF x 2-3/4"	7
102225	BUSHING, STEEL	133
102306	MUD MIXER ASSEMBLY, [Hydraulic]	3
102307	MOTOR, HYD	13
102630	Spare Parts Kit, Fluid Circulation Grp [FMC L09]	3
102631	Spare Parts Kit, Fluid Circulation Grp [FMC W11]	3
102633	Spare Parts Kit, Mud Mixer	3
102725	SPACER BAR	159,161
102806	BOWL, ROD CLAMP	153
102955	LOCKWASHER, 1/2" ID	47
102956	LOCKWASHER, Dia3/4 (GR.8) [Gr.8]	7
103243	C/SCR, SH 3/4-10UNC x 1 3/4	133
10330	O-RING	13
103748	HOSE, SUPPLY [1" ID x 100 ft. Lg.]	181
103816	MOTOR, HYDRAULIC	133
103968	NUT, HEX 3/8-16UNC	75,189
104024	NUT, HEX (NYLOCK) 3/8-16UNC [Nyloc]	181
104101	VALVE, PRESS REDUCING HEAD FEED	63
104174	CAPSCREW	13
104231	C/SCR, HH 1/2-13UNC x 1 3/4" Lg.	133
104245	COVER, END RESERVOIR	27,31
10427	SEAL	13
104291	RETAINER, BATTERY	23
104294	ROD, THD, 3/8-16 UNC [3/8-16 UNC]	23
104309	CAPSCREW	13

BLI PART NO.	DESCRIPTION	PAGE
104322	CAPSCREW	13
104375	INSERT, CHIP-BOARD, BATTERY BOX [Battery Box]	23
104464	NUT, SPINDLE	135
104488	C/SCR, HH 3/4-10 UNC x 8"	197
104858	BEARING SHAFT	159
104859	4 BOLT FLANGE BEARING	159,163
104862	MOTOR, HYDRAULIC	159
104863 104864	BODY, HYDRAULIC CARTRIDGE	159 163
105769	CABLE DRUM	13
105770	BEARING SUPPORT	13
105772	TORQUE SHAFT	13
105773	MOTOR END PLATE	13
105774	SUPPORT END PLATE	13
105784	TIE PLATE	13
105786	COUNTERBALANCE VALVE	13
105827	GUARD, CABLE	13
11026	LOCKWASHER	13
11842	SCREW, DRIVE	13
12465	O-RING	13
14570	HOSE ASM, SUCTION 2" ID x 20 FT.	165
14892	GUN, GREASE	133
16634 17121	FITTING-GREASE 1/8 NPTF WASHER, BEVEL Dia1/2	137,167,171 165
17447	FITTING, GREASE	153,157
17666	NIPPLE, CLOSE (1-1/2 NPT STD.)	183
17905	NIPPLE, CLOSE #8 NPT XH	177,185
17944	BUSHING, HEX PIPE #20 x #16 NPT	177
18040	DISCHARGE ASM, PUMP #16 NPT CONNECTIONS	181
18062	RELIEF VALVE, 7.5-15 PSI	13
18175	CROSS, PIPE #16 NPT	185
18183	PLUG, 1 1/4 NPT	165,169,173
18185	DISCHARGE ASM, PUMP #20 NPT CONNECTIONS	165
18208	BEARING, CRANKSHAFT BALL	167
18475	PLUG, SQ HD [1 1/2 NPT]	183
18680 18784	TEE (1-1/2 NPT) ADAPT, HYD PLUG, 3/4 NPT [socket head]	183 137
18867	BUSHING, HEX PIPE #16 x #8 NPT	185
18902	HOSE, SUCTION [1-1/2" ID x 15 ft. Lg.]	181
18922	BUSHING, HEX PIPE #20 x #8 NPT	177
19163	GAUGE, PRESSURE	177
19325	WASHER, BEVEL Dia5/8	165
19464	WASHER, FLAT 1" ID	45
19612	NIPPLE, #16 NPT x 2 LG XH	185
19917	FITTING, GREASE 1/8 NPT x 45Deg	137
19971	ADAP, HYD 16 JIC x 16 NPT	189
20720	NIPPLE, #20 NPT x 2 LG XH	177
20827	NIPPLE, PIPE 8 NPT x 6 Lg.	189
21063	CROSS, PIPE #20 NPT	177
21283	O-RING	13
21411 21568	ELBOW, STREET [1"NPT x 1"NPT (F) CABLE, BATTERY POS [27" Lg.]	181 181
21769	CABLE, BATTERY GROUND [27" Lg.]	181
21836	SEAT, VALVE [Mud Type]	187
21875	BATTERY, 4D [Douglas]	23
22079	PLUG-SOCKET PIPE, 1/4 N.P.T.	137
22080	PLUG-SOCKET PIPE, 3/8" N.P.T.	137
22351	PIN, CLEVIS 3/16 DIA x 2	197
22508	ADAP, HYD 16 JIC x 16 NPT 45°	189
22818	SEAL, OIL	13
23183	SCREW, DRIVE	153
24110	BEARING, BALL	13
24487	BEARING, BALL	13
24586 24821	DECAL SPEC (GREASE)	153
25131	PUMP, WATER (W11) ELBOW / O-RING	165 13
20101	LLDOW / O'IMING	13

BLI PART NO.	DESCRIPTION	PAGE
25397	VALVE, BALL	187
25470	ADAP, HYD 16JIC x 16 ORB	53,59
25475	ADAP, HYD 16 JIC x 16 NPT 90°	189
25614	SHAFT, PRIMARY PLANET GEAR	13
25864	ADAPTER	13
26056	ADAP, HYD 4 JIC - 4 NPT x 90°	51
26112	PIN, QUICK RELEASE Dia1/4" [Ï1/4]	159
26140	SWIVEL NUT, 90 deg ELBOW	13
26157	BALL, 1-1/8" DIA.	169,175
26479	GEAR, PRIMARY SUN	13
26480	CABLE DRUM CLOSURE	13
27152	LOCKWASHER	13
27375	SPACER	13
27627	INTAKE ASSEMBLY, SUCTION	181
27664	CAPSCREW	13
27763	WASHER, FLAT, GR 8, Ø7/8	151
28097	PLUG, 2" NPT PIPE	169
28809	U-BOLT 1 1/2" PIPE	189
28962	C/SCR. HH 7/8-9 UNC x 2 1/2 Lg.	151
29000	ADAPT, HYD #8 JIC x #8 ORB x 45°	51
306085	Spare Parts Kit, Rod Clamp Group	3
306123	DRUM WELDMENT	159
306125	END PLATE (HIS)	159
306126	END PLATE (LHS)	159
306127	GUARD, W/L HOIST	159
306129	RETAINING/DISASM. TOOL	159
306143	CLAMP, HOSE (5/8" OD)	125
306155	GUARD, BEARING W/L	159
306182	FLANGE KIT (#12) Spare Parts Kit, Wireline Hoist	159
306206	SEAL KIT	159 163
306208 306220	ADAP, HYD #4 JIC(F) x #4 NPT(F)	53
306382	LUG, RING TERMINAL 4 AWG	127
306385	SHRINK TUBE	127
306466	PINION AND SHAFT-INPUT	135
306468	GEAR-OUTPUT	135
306469	GEAR, INTERMEDIATE	139
306473	HOUSING-MAIN	135
306476	CAP- BEARING UPPER (OUTPUT)	135
306477	CAP- BEARING LOWER (OUTPUT)	135
306481	SPACER-INTERMEDIATE	135
306483	RING-INNER LOCK	135
306484	RING-OUTER LOCK	135
306485	ADAPTOR-SPLINED	135
306487	SHIM005 THICK [Ref Chart #306505]	135
306488	SHIM007 THICK [Ref Chart #306505]	135
306489	SHIM020 THICK [Ref Chart #306505]	135
306492	SPACER, BEARING (REWORK)	139
306493	SPACER-OUTPUT	135
306585	CUP-BEARING, O.D. 5.75	135
306587	CONE-BEARING, I.D. 3.625"	135
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CSCR, Hi 34-10 x 6 Lb, GR.B. CSCR, Hi 34-10 t 0 KP x 204" (SCR, Hi 38-16 t 0 KP x 204" (SCR,	C/SCR_HH 3/4-10 x 6 1/2 Lg_GR_8	60417	197 199
CSCR, HH 304-10 UNE x 2-24/1			
CSCR, Hi 38-16 NC x 12 Lg. CSCR, Hi 38-16 NC x 12 Lg. CSCR, Hi 38-16 NC x 12 Lg. CSCR, Hi 38-16 NC x 12 CRB A4658 5 5.59,197 CSCR, Hi 38-16 NC x 12 CRB A4651 CSCR, Hi 38-16 NC x 12 CRB A4652 CSCR, Hi 38-16 NC x 12 CRB A4652 CSCR, Hi 36-16 NC x 12 CRB CSCR, Hi 36-16 NC x 12			133
CSCR, HH 398-16 UNC x 3-1/2 GR8	C/SCR, HH 3/4-16 UNF x 2-3/4"		7
CISCR, HH 398-16UNC x 1 1.0			
CISCR, HH 398-16UNCX 1-LIG			
CSCR, HH 96-16UNC x 1-1/2 CSCR, HH 516-18 x 34 LD CSCR	*****		
CISCR, HH 5/16-18 x 34 Lg. CISCR, HH 5/16-18 LUNC x LG - LC. #90214-86 CISCR, HH 5/16-18 LUNC x LG - LC. #90214-86 CISCR, HH 5/16-18 LUNC x LG - LC. #90214-86 CISCR, HH 5/16-18 LUNC x LG - LC. #90214-86 CISCR, HH 5/16-18 LUNC x LG GR CISCR, HH 5/16-18 LUNC x LG GR CISCR, HH 5/16-18 LUNC x LG GR CISCR, HH 5/16-11 LUNC x LG GR CISCR, SH 1/2-2 LUNC x LG G			
CISCR, HH 5716-1BUNC X 1 LG - LC. #90214-96	****		
CSCR, HH 578-H UNC x 1 34"			53,59,77
CISCR, HH 58-H JUNC x 1 34" 44514 165	C/SCR, HH 5/16-18UNC x 4 GR8	46054	197
CISCR, HH 58-11UNC x 2 LEC			
CISCR, HH 5/8-11UNC x 3 GR8			
CSCR, HH 7/16-14 UNC x 1 GR8			
CISCR, HH MIOX.15x30GR10.9 68894 35 CISCR, HH MIOX.15x30GR10.9 68898 35 CISCR, HH JAV-16 UNF x 2°Lg, 3'4-16 UNF x 2° 43008 153 CISCR, SH H2-3'16 UNF x 2°Lg, 3'4-16 UNF x 2° 3546011 65 CISCR, SH H2-13 NC x 3'4-Lg CISCR, SH H2-13 UNC x 11/2 LG 45676 135 CISCR, SH 11/2-13 NC x 3'4-Lg CISCR, SH 11/2-13 NC x 3'4-Lg CISCR, SH 11/2-13 NC x 11/2 LG 44531 137,141,145 CISCR, SH 11/2-2 UNC x 1-1/2 GR8 48011 53.59 CISCR, SH 13/4-10 UNC x 1-1/2 GR8 48011 53.59 CISCR, SH 3/4-10 UNC x 1-1/2 GR8 48011 53.59 CISCR, SH 3/4-10 UNC x 1-1/2 GR8 48527 141,145 CISCR, SH 3/4-10 UNC x 1-1/2 GR8 CISCR, SH 3/4-10 UNC x 3/4 LG CI			
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CISCR, SH #8-32 x 58" Lg. 5546011 65			
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C/SCR, SH 3/8-10UNC x 1 3/4 C/SCR, SH 3/8-16UNC x 1 1/4 LG C/SCR, SH 4/8 x 30mm Lq 346013 65 C/SCR, SH 4/8 x 30mm Lq 348013 66 C/SCR, SCR DH 12-13 x 2° LG C/SCR, SH 5/8-14/4 Lg (Rwk) C/SCR,			
CSCR, SH 38-16UNC x 11/4 LG CSCR, SH 38-16UNC x 24/4 LG CSCR, SH Mx x 30mm Lq. CSCR, SC Mx x 34, Lq (Rwk) 33938 63 CSCR, SC ND 1/2-13 x 2* Lq. CSCR, SC ND 1/2-13 x 2* Lq. CSCR, SH Mx x 30mm Lq. CSCR, SH Mx x 30mm Lq. CSCR, SH Mx x 30mm Lq. CSCR, SC ND 1/2-13 x 2* Lq. C			
C/SCR, SH MX x 30mm Lg. C/SCR, SH MX x 8x15 GR10.9 C/SCR, SOC HD 1/2-13 x 2" Lg. C/SCR, SOC HD 1/2-13 x 2" Lg. C/SCR, HH 7/8-9 UNIC x 2 1/2 Lg. C/SCR, HH 7/8-1 UNIC x 2 1/2 Lg. C/SCR, HM 1/8-1 UNIC x 2 1/			141,145
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NUT, HEX 1/4-20 UNC NUT, HEX 34-10 UNC NUT, HEX 34-			
NUT, HEX 1/4-20UNC NUT, HEX 36-16UNC NUT, HI 36-16 UNC NUT, HI 36-16 UNC NUT, JAM, 36-			_
NUT, HEX 14-20UNC NUT, HEX 39-16UNC NUT, JAM 1' UNF 36-16UNC NUT, JAM 1' UNF 36-16UNC NUT, JAM 1' UNF 36-16UNC NUT, JAM 1' UNF NUT, JAM 39-16 UNC NUT, JAM 1' UNF NUT, JAM 39-16 UNC NUT, JAM 1' UNF NUT, PLUNGER ROD NUT, PLUNGER ROD NUT, PLUNGER ROD NUT, PLUNGER ROD NUT, SPECIAL NUT, SPINDLE 104464 135 NUT, SPINDLE 104666 63 01 UNC, SPINDLE 104666 03 100666 03 100666 03 1006666 03 100666663 04-17-17-17-17-18-17-18-17-18-18-18-18-18-18-18-18-18-18-18-18-18-	101, FEX 1/2-13010	44323	
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NUT, HEX 38-16UNC NUT, HEX 38-16UNC NUT, HEX 11 UNC NUT, HAY 11 UNC NUT, JAM 11 UNF NOT, JAM 38-16 UNC NUT, JAM 11 UNF NUT, JAM 38-16 UNC NUT, JAM 38-16 UNC NUT, PLUNSER NOT, PLUNSER NO			
NUT, HEX 38-16 UNC NUT, HEX 38-16 UNC NUT, HEX 38-16 UNC NUT, HEX 38-16 UNC NUT, JAM 1' UNF NUT, JAM 38-16 UNC NUT, JAM 38-16 UNC NUT, JAM 38-16 UNC NUT, JAM 38-16 UNC NUT, PLUNGER NUT, PLUNGER NUT, PLUNGER NUT, PLUNGER NUT, PLUNGER NUT, PLUNGER NUT, SPECIAL NUT, PLUNGER NUT, SPECIAL NUT, S			· ·
NUT, J.M. 1' UNF NUT, J.M. 1' UNF NUT, J.M. 38-16 UNC NUT, PLUNSER NUT, PLUNSER ROD NUT, PLUNSER ROD NUT, SPINDLE NUT, STUP CABLE OIL TEMP CABLE ORING OR			•
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NUT, SPECIAL NUT, SPIDNE NUT, STUD ±10-24 UNC OIL LEVEL CABLE OIL LEVEL CABLE OIL SPINDE OFFRATOR PLATFORM OIL LEVEL CABLE OFFRATOR PLATFORM OFFRATOR PLATFO	NUT, PLUNGER	75012	167,171,175,187,211
NUT, SPINDLE NUT, SPINDLE NUT, STUD #10-24 UNC OIL LEVEL CABLE OIL TEMP CABLE 3548328 71 OIL TEMP CABLE 3548329 71 OPERATOR PLATFORM ORIFICE, FIXED. 018" PORT "P" OPERATOR PLATFORM ORIFICE, FIXED. 018" PORT "P" ORING	NUT, PLUNGER ROD	79326	167,171
NUT, STUD #10-24 UNC OIL LEVEL CABLE OIL LEVEL CABLE OIL LEVEL CABLE OIL TEMP CABLE OIL TEMP CABLE OS 548329 71 ORFICE, FIXED .018" PORT "P" 3548264 63 ORING ORING 76208 13 ORING ORING 76208 13 ORING ORING 12465 13 ORING ORING 12465 13 ORING ORING 12465 13 ORING ORING 12465 13 ORING ORING ORING 12465 13 ORING ORING ORING 13547404 135 ORING ORING, 8342 37500 159,161 ORING, 8342 37924 49 ORING, 636 SPRING PQ CHUCK ORING, 83425 ORING, 636 SPRING PQ CHUCK ORING, 676 SPRING PQ CHUCK ORING, PO CHUCK CYLINDER ORING, PO CHUCK CYLINDER ORING, PO CHUCK SPINDLE ORING, PO CHUCK SPINDLE ORING, PO CHUCK SPINDLE ORING, PO CHUCK CYLINDER ORING, PO CHUCK SPINDLE ORING, PO CHUCK CYLINDER ORING, PO CHUCK SPINDLE ORING, PO CHUC	NUT, SPECIAL	75027	167,171,211
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Overhaul Manual, Transmission [FUNK HMD 127000] 3541060 3 PACKING, COBOXILATED [Plunger Cup] 79607 187 PACKING, NEOPRENE 75003 167,171 PACKING, PLUNGER CUP 79606 175 PAD, WEAR 100879 47 PAD, WEAR 3547192 39,41 PETCOCK, 1/8" NPT 79098 167,171 PIN, 1/4 DIA. x 1 1/4 LG DOWEL 3546713 135 PIN, CEVIS 3/16 DIA x 2 22351 197 PIN, COTTER 1/8 x 2 1/2 LG [Ï1/8 x 2 1/2" Lg.] 36801 7 PIN, COTTER 1/8 x 2 1/2 LG [Ï1/8 x 2 1/2" Lg.] 3540032 159,161 PIN, COTTER 3/32 x 3/4 44615 197 PIN, DOWEL 1 DIA x 3 1/2 LG 3543510 141,145 PIN, DOWEL 3/8 DIA x 1 LG 3543510 141,145 PIN, LOCK OPERATOR STAND 3547660 51,57 PIN, OPERATOR STAND 3547669 51,57 PIN, OPERATOR STAND 3547659 51,57 PIN, QUICK RELEASE DIA1/4" [Ï1/4] 26112 159,161 PIN, QUICK RELEASE, ASM. 3540214 159,161 PIN, QUICK RELEASE, ASM. 45656 </td <td>O'RING, PQ CHUCK SPINDLE</td> <td>3543503</td> <td>141,145,149</td>	O'RING, PQ CHUCK SPINDLE	3543503	141,145,149
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