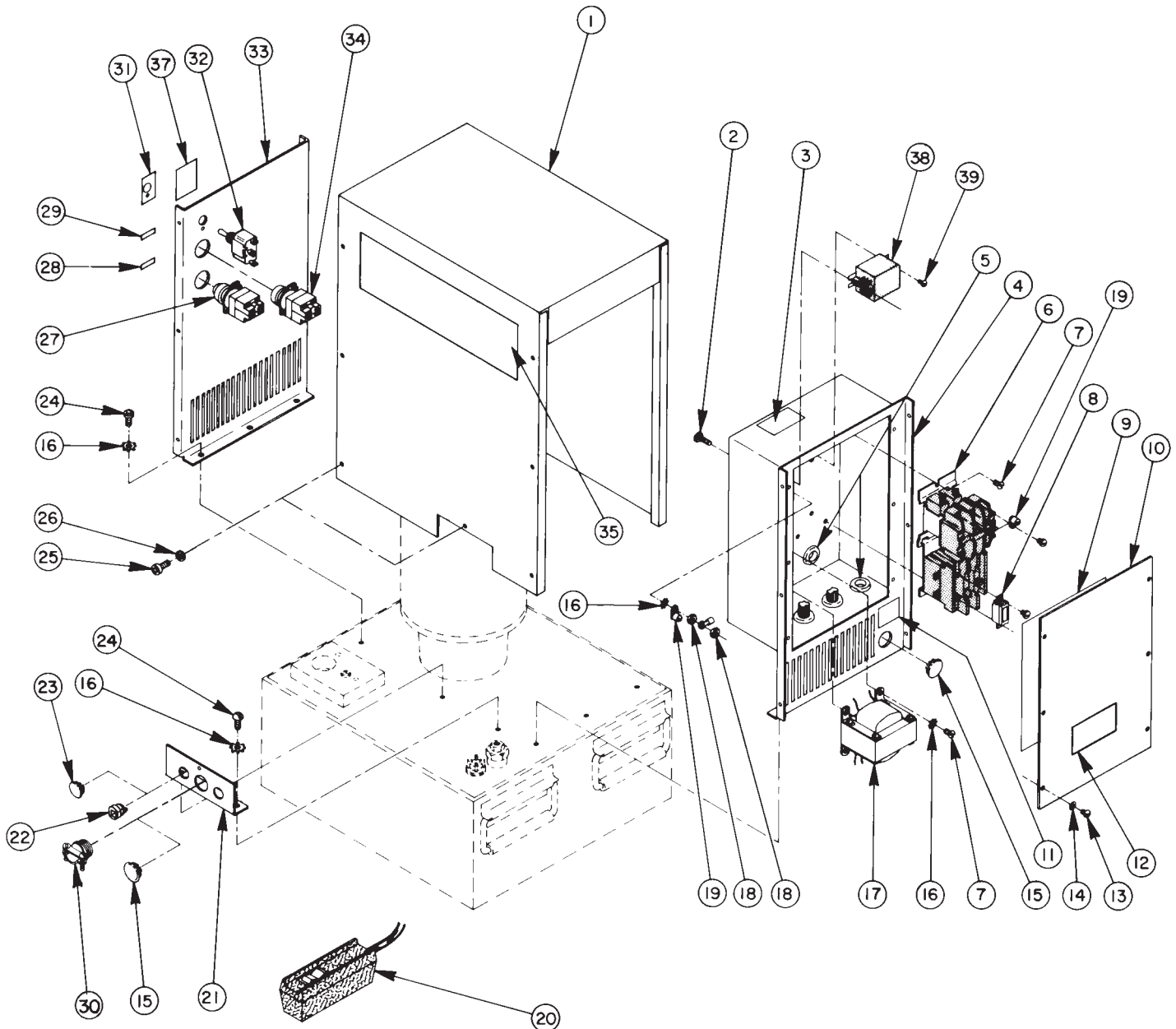


Parts List for:

100213
100213-230
100214
100218

MODEL C
ELECTRIC TWO-STAGE HYDRAULIC PUMP

CONTROL BOX & COVER ASSEMBLY



Parts List, Form No. 100321, Back sheet 1 of 4

Item No.	Part No.	No. Req'd	Description
1	50946WH2	1	Shroud Cover
2	104484	1	Machine Screw (#10-24 x 3/4 Lg.)
3	202504	1	Rotation Decal
4	60235PU2	1	End Panel & Electrical Box
5	15497	6	Rubber Grommet
6	17861-4	1	Magnetic Starter (For 100213, 100213-230 & 100214)
	16642	1	Magnetic Starter (For 100218)
7	10164	6	Machine Screw (#10-24 x 3/8 Lg.)
8	16641-39	3	Starter Heater (460 volt)
	16641-50	3	Starter Heater (230 volt)
9	39078	1	Electrical Schematic Decal
10	42457PU2	1	Cover Plate
11	205305	1	Specifications Decal
12	200188	1	Warning Decal
13	10975	6	Machine Screw (#8-32 x 5/16 Lg.)
14	11107	6	Serrated Washer (#8 Internal)
15	15327	1	Snap Plug (For 100218)
	15327	2	Snap Plug (For 100213, 100213-230 & 100214)
16	11108	AR	Serrated Washer (#10 External)
17	39693	1	Transformer (For 100213, 100213-230 & 100214)
	38962	1	Transformer (For 100218)
18	10197	2	Hex Nut (#10-24)
19	205420	4	Lug Connector
20	202778	1	Remote Control Assembly (For 100218)
	205373	1	Decal (Used on remote control)
21	36746WH2	1	Angle Plate
22	215857	1	Strain Relief Bushing
23	16412	1	Snap Plug (For 100213, 100213-230 & 100214)
24	16613	8	Machine Screw (#10-24 x 5/16 Lg.)
25	14394	14	Self-tapping Screw (#10 x 3/8 Lg.)
26	12356	AR	Serrated Washer (#10 Internal Tooth)
27	39283	1	Pushbutton Switch (Red)

Item No.	Part No.	No. Req'd	Description
28	203769	1	Stop Decal
29	203808	1	Start Decal
30	11203	1	Strain Relief (For 100218)
31	352081	1	Decal
32	12301	1	On/Off Switch
33	51124PU2	1	End Panel
34	39282	1	Pushbutton Switch (Green)
35	309386	2	Trade Name Decal
37	204015	1	Instruction Decal
38	39092	1	Relay (For 100213, 100213-230 & 100214)
	18842	1	Relay (For 100218)
39	17563	2	Machine Screw (#6-32 x 1/4 Lg.)

PARTS INCLUDED BUT NOT SHOWN

100236	1	Pressure Gauge
10618	1	Tee Fitting
204610	1	Motor Leads Decal
205189	1	Ground Decal
352061	1	Metal Switch Guard
10672	1	Nipple (1/4 NPTF; For 100218)
104506	1	45° Elbow (For 100218)
19979	1	Marker Strip (For 100218)
19978	1	Terminal Strip (For 100218)
12908	2.5 ft.	Electrical Cord (For 100218)

OPTIONAL VALVES/MANIFOLD/PRESSURE SWITCH

100235	1	Manual Valve (See Form #100374; For long handle, order Part #25786)
100241	1	Solenoid Valve (See Form #100309)
9614	1	Manifold Assembly (See Form #100604)
10022	4	Cap Screw (1/4-20 x 1-1/2 Lg.; Longer screws for mounting 9614 manifold)
9625	1	Pressure Switch (See Form #100589)

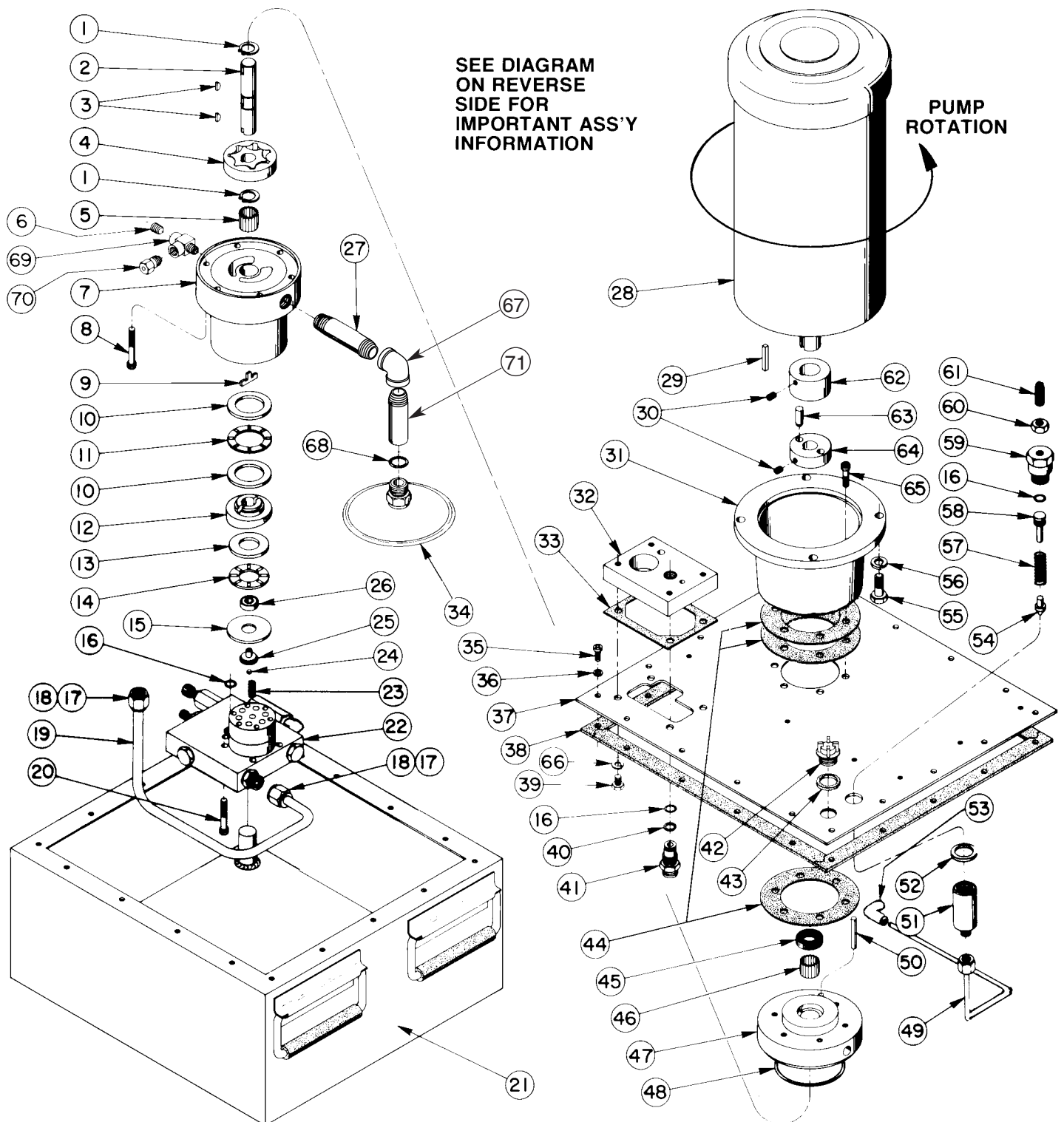
AR = As Required

Refer to any operating instructions included with this product for detailed information about operation, testing, disassembly, reassembly, and preventive maintenance.

Items found in this parts list have been carefully tested and selected. **Therefore: Use only genuine Hytec replacement parts!**

Additional questions can be directed to our Technical Services Department.

BASIC PUMP ASSEMBLY

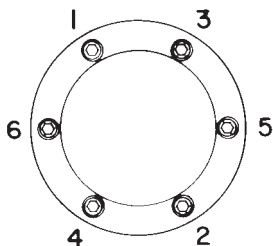


Parts List, Form No. 100321, Back sheet 2 of 4

Item No.	Part No.	No. Req'd	Description	Item No.	Part No.	No. Req'd	Description
1	12178	2	Retaining Ring (5/8" shaft)	37	60231WH2	1	Cover Plate (.104 Thk.)
	**12178	3	Retaining Ring (5/8" shaft)		**60922	1	Cover Plate (.164 Thk.)
2	35272	1	Pump Shaft	38	50712	1	Cover Gasket
	**303009	1	Pump Shaft	39	10004	4	Cap Screw (1/4-20 x 3/8 Lg.)
3	12179	2	Woodruff Key		**10005	4	Cap Screw (1/4-20 x 1/2 Lg.)
4	15428	1	Gerotor Set	40	11863	1	Backup Washer (1/2 x 3/8 x 1/16)
5	15461	1	Needle Bearing	41	20787	1	Connector
6	10427	1	Pipe Plug (1/8 NPTF)	42	20937	1	Filler Plug
7	50705	1	Pump Housing	43	200415	1	Washer
8	10854	6	Cap Screw (See Note below; 1/4-20 x 1-3/4 Lg.)	44	35266	2	Gasket
9	200397	1	Key	45	12194	1	Seal
10	11227	2	Needle Thrust Race	46	15430	1	Needle Bearing
11	11228	1	Needle Thrust Bearing	47	50706	1	Gerotor Pump Housing
12	35271	1	Angle Plate	48	12504	1	O-ring (3" x 2-13/16 x 3/32)
13	15432	1	Needle Thrust Race	49	350524	1	Oil Line Assembly with Fittings
14	15431	1	Needle Thrust Bearing	50	13152	1	Dowel Pin (3/16 x 1-1/2 Lg.)
15	23548	1	Top Plate	51	22361	1	Body
16	10268	3	O-ring (1/2 x 3/8 x 1/16)	52	14857	1	Flat Washer (1.06 x .78)
17	10430	2	Tube Sleeve	53	16177	1	90° Fitting
18	10431	2	Tube Nut	54	21046	1	Valve Stem
19	35281	1	Oil Line (3/8 dia.)	55	10049	4	Cap Screw (3/8-16 x 1" Lg.)
20	10022	5	Cap Screw (1/4-20 x 1-1/2 Lg.; Torque to 110/120 in. lbs.)	56	10247	4	Lockwasher (For 3/8 bolt)
21	60234PU2	1	Reservoir	57	10495	1	Compression Spring (1/2 O.D. x 1-5/8 Lg.)
22	420882	1	High Pressure Pump Assembly (See sheet 3 of 4)	58	21306	1	Spring Guide
23	10361	1	Compression Spring (1/4 O.D. x 1" Lg.)	59	21305	1	Valve Cap
24	10375	1	Steel Ball (1/4 dia.)	60	10386	1	Hex Nut (3/8-24)
25	23547	1	Top Bearing Plate	61	22362	1	Valve Adjusting Screw
26	11814	1	Ball Bearing	62	200396	1	Coupling (See diagram below)
27	260022	1	Straight Fitting		**207440	1	Coupling (See diagram below)
28	15436	1	Motor (2 H.P., 230/460 V., 60 Hz.)	63	27003	2	Nylon Pin
29	27778	1	Square Key	64	27001	1	Coupling
30	10133	2	Set Screw (#10-24 x 1/4 Lg.)	65	10012	6	Cap Screw (1/4-20 x 7/8 Lg.; Torque to 110/120 in. lbs.)
	**10133	3	Set Screw (#10-24 x 1/4 Lg.)	66	**10244	4	Washer (For 1/4 bolt)
31	41838	1	Motor Mount	67	260023	1	90° Elbow Fitting
32	43110	1	Valve Mounting Block	68	10527	1	O-ring (13/16 x .644 x .087)
33	200395	1	Gasket	69	18969	1	Tee Fitting
34	21345	1	Filter Assembly	70	306957	1	Air Bleed Valve
35	16876	18	Machine Screw (#10-24 x 1/2 Lg.)	71	260021	1	Tube Extension
36	12356	18	Serrated Washer (#10 Internal Tooth)				

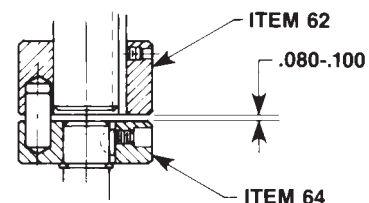
** AFTER AUGUST 1981

BOLT TIGHTENING SEQUENCE

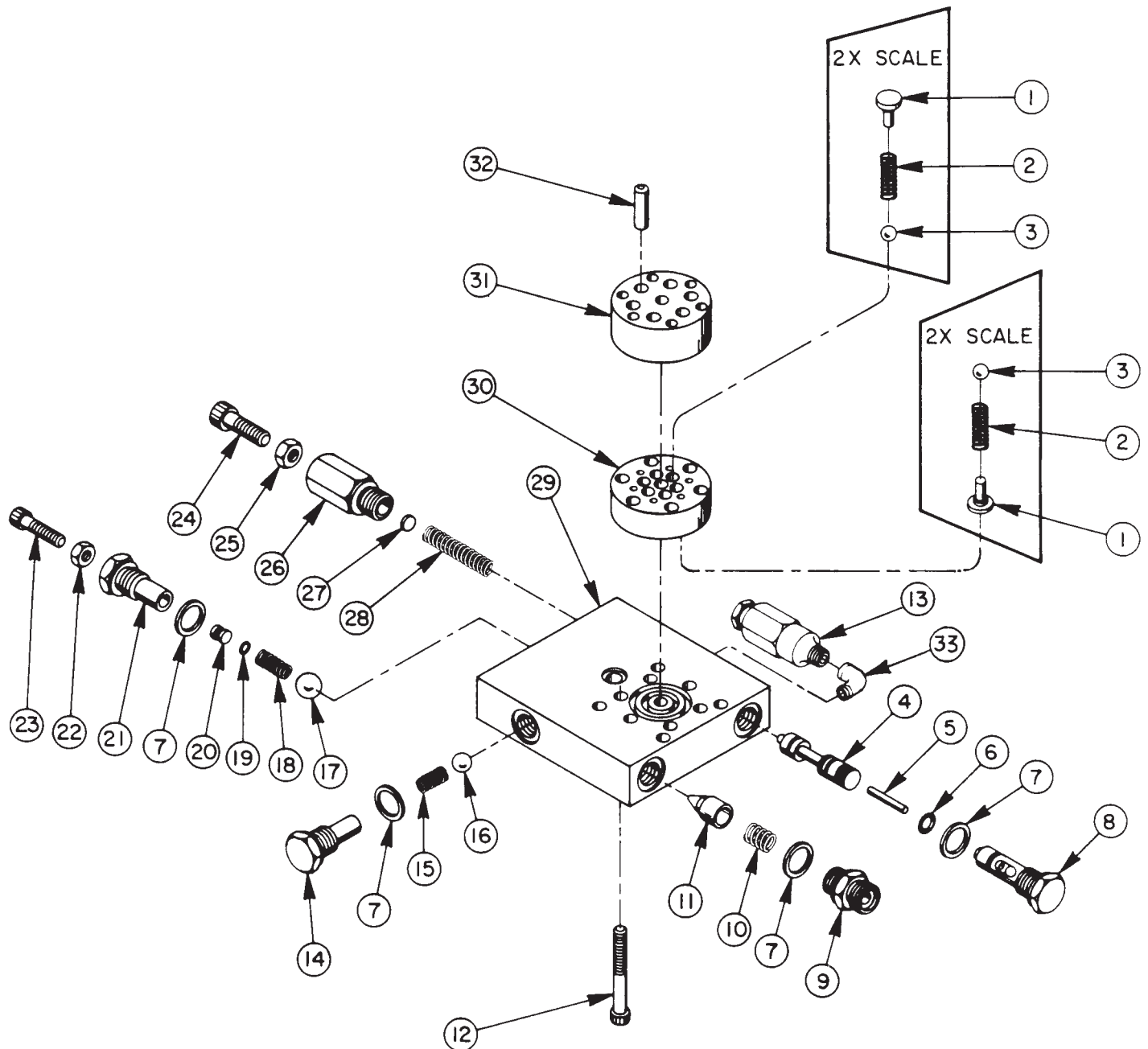


NOTE: All bolts must be torqued in sequence shown. Torque to 110/120 in. lbs. in increments of 50/60 in. lbs.

COUPLING CLEARANCE



#420882 HIGH PRESSURE PUMP ASSEMBLY



SEE DIAGRAM ON REVERSE
SIDE FOR IMPORTANT
ASSEMBLY INFORMATION

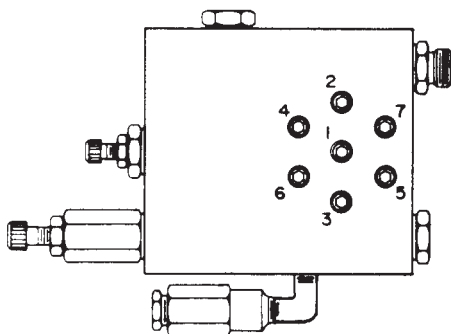
Note: Supercharge Valve and Unloading Pressure Valve of the high pressure pump assembly are NOT factory set! They require adjustment at final pump assembly. Refer to the pump's hydraulic schematic for specifications.

Parts List, Form No. 100321, Back sheet 3 of 4

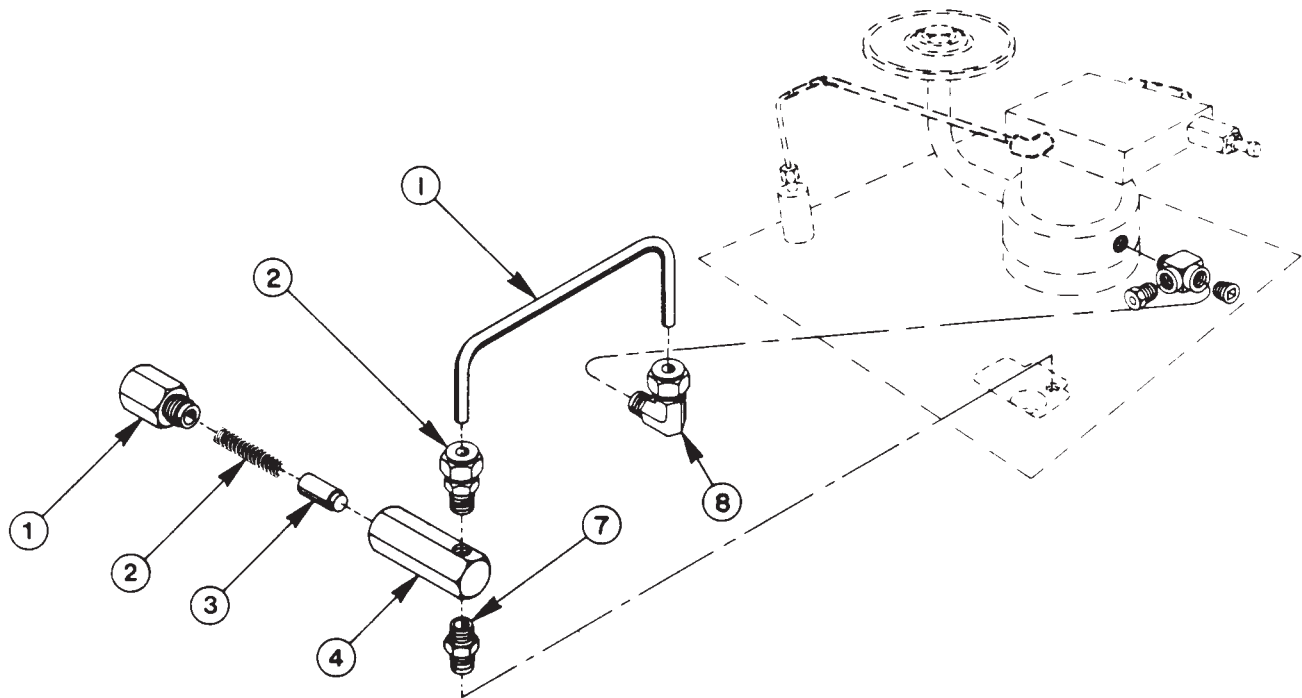
Item No.	Part No.	No. Req'd	Description	Item No.	Part No.	No. Req'd	Description
1	*24549	12	Valve Guide	16	10378	1	Steel Ball (3/8 dia.)
2	*10445	12	Compression Spring (5/32 O.D. x 3/4 Lg.)	17	10379	1	Steel Ball (1/2 dia.)
3	*12223	12	Steel Ball (3/16 dia.)	18	15319	1	Compression Spring (1/4 O.D. x 15/16 Lg.)
4	200273	1	Spool	19	12099	1	O-ring (9/32 x 5/32 x 1/16)
5	16471	1	Dowel Pin (1/8 dia. x 1" Lg.)	20	200271	1	Adapter
6	14763	1	O-ring (7/16 x 5/16 x 1/16)	21	200270	1	Fitting, Super Charge (Torque to 30/35 ft. lbs.)
7	10261	4	Copper Washer (3/4 x 19/32 x 1/32)	22	10383	1	Finished Jam Nut (1/4-20)
8	202561	1	Adapter, Actuating Pin (Torque to 30/35 ft. lbs.)	23	10016	1	Cap Screw (1/4-20 x 1" Lg.)
9	20770	1	Connector (Torque to 30/35 ft. lbs.)	24	10809	1	Cap Screw (5/16-18 x 1-1/4 Lg.)
10	10425	1	Compression Spring (3/8 O.D. x 3/4 Lg.)	25	10385	1	Finished Jam Nut (5/16-18)
11	20771	1	Poppet	26	36545	1	Unloading Fitting (Torque to 30/35 ft. lbs.)
12	*15318	7	Cap Screw (1/4-28 x 2" Lg.; See diagram below)	27	16528	1	Disc
13	21278-50	1	Relief Valve Assembly (Set at 5,100/5,700 PSI)	28	203031	1	Compression Spring (.300 O.D. x 1-3/4 Lg.)
14	200269	1	Adapter Plug (Torque to 30/35 ft. lbs.)	29	*50691	1	Valve Body
15	11451	1	Compression Spring (1/4 O.D. x 5/8 Lg.)	30	*41048	1	Valve Head
				31	*41063	1	Pump Barrel
				32	*21628	6	Piston (9/32 dia.)
				33	13229	1	Elbow Fitting

When replacing items marked with an asterisk (*), consult our Technical Services Department.

BOLT TIGHTENING SEQUENCE



NOTE: Assemble in sequence shown.
Lubricate under head and on threads.
Torque to 180 in. lbs.

OPTIONAL PILOT OIL LINE / ACCUMULATOR ASSEMBLY

Item No.	Part No.	No. Req'd	Description
1	200405	1	Oil Line
2	11173	1	Connector
3	202121	1	Spring Retainer (Torque to 50/70 in. lbs.)
4	16499	1	Compression Spring (1/4 O.D. x 2-3/16 Lg.)
5	21945	1	Plunger
6	21944	1	Cylinder Body
7	11421	1	Pipe Nipple
8	11278	1	Connector
	21943	1	Accumulator (Consists of items 3, 4, 5, & 6)

ELECTRICAL SCHEMATICS FOR MANUAL OR MANIFOLD PRESSURE SWITCH CONTROLLED UNITS 230/460 VOLT, 60 CYCLE