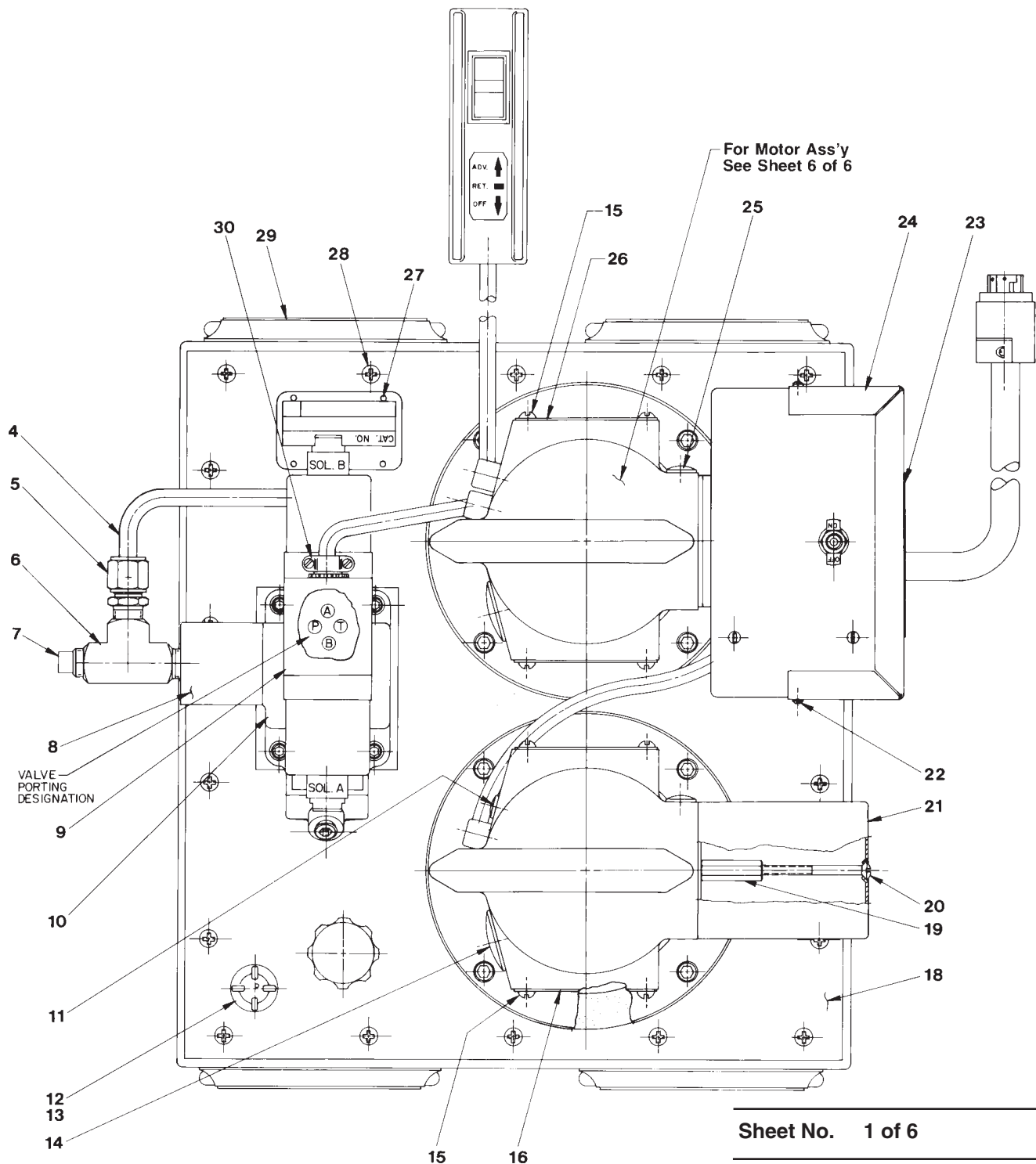
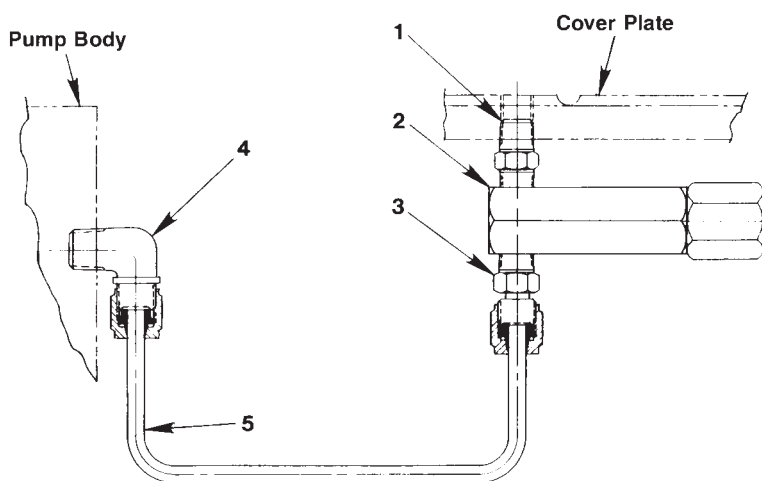


TANDEM ELECTRIC HYDRAULIC PUMP WITH REMOTE CONTROLLED SOLENOID VALVE GENERAL SECTION



Item No.	Part No.	No. Req'd	Description
4	303515	1	Fluid Line Tubing
5	10662	1	Fitting
6	10623	1	Fitting
7	11127	2	Pipe Plug
8	31039	1	Valve Manifold
9	16664-2	1	Solenoid Valve
10	31057	1	Valve Assembly (See Form #13387)
11	11455	1	Snap Plug
12	20937	1	Filler Cap
13	200415	1	Seal
14	12370	2	Snap Plug
15	10164	8	Machine Screw (#10-24 UNC X 3/8 Lg.)
16	21008	3	Plate
18	61090	1	Cover Plate
19	22738	1	Standoff
20	11432	1	Machine Screw
21	304422WH2	1	Electrical Cover
22	14812	4	Self-Tapping Screw (#8-18 X 3/8 Lg.)
23	200188	1	Warning Decal
24	43126WH2	1	Electrical Box Cover
25	13971	2	Snap Plug
26	22720	1	Plate
27	10575	4	Drive Screw (#2 X 3/16 Lg.)
28	16876	18	Machine Screw (10-24 UNC X 1/2 Lg.)
29	60234C03	1	Reservoir
30	11203	1	Cable Grip

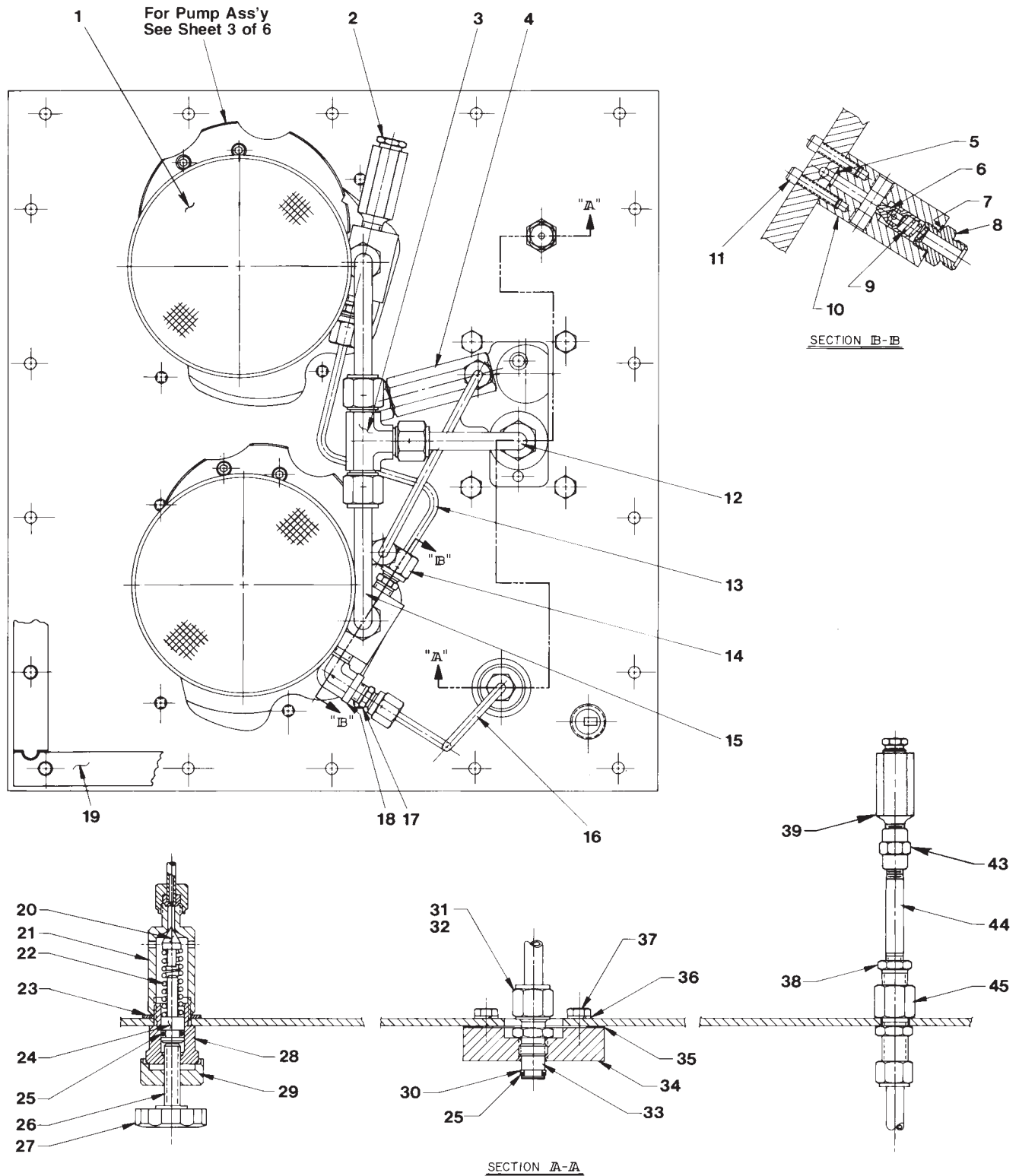
ACCUMULATOR/PILOT OIL LINE ASSEMBLY



Complete Assembly No. 22747
consists of Items 1 thru 5.

Item No.	Part No.	No. Req'd	Description
1	11421	1	Pipe Nipple
2	21943	1	Accumulator Assembly
3	11173	1	Connector
4	11278	1	Tube Elbow
5	22746	1	Oil Line

GENERAL ASSEMBLY



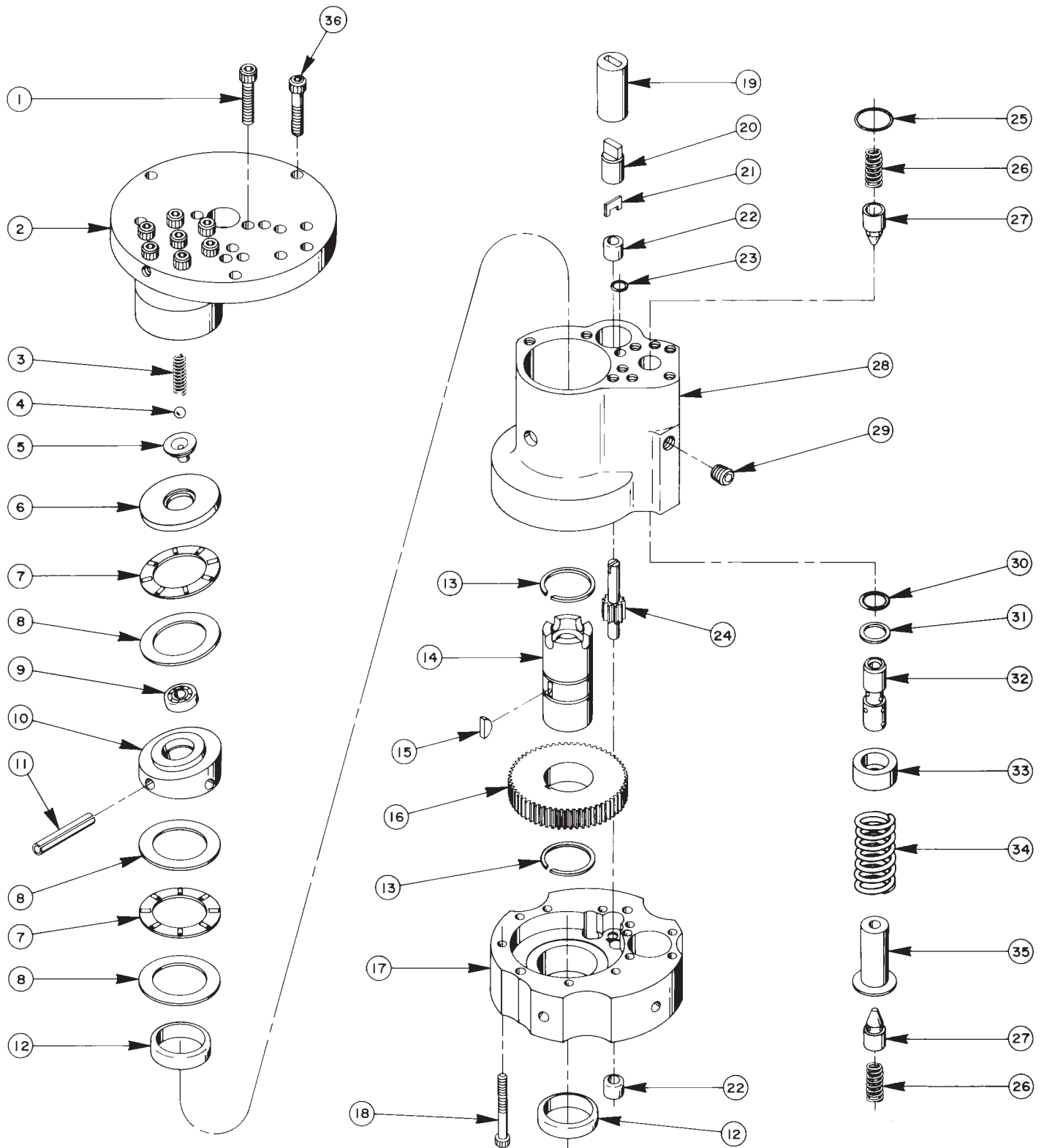
Item No.	Part No.	No. Req'd	Description
1	21344	2	Filter Assembly
2	21278	1	Relief Valve Assembly (Set at 10,100/10,700 PSI)
3	10659	1	T Fitting
4	22747	1	Accumulator/Pilot Oil Line Assembly (See back sheet 1 of 6)
5	10266	2	O-ring (3/8 X 1/4 X 1/16)
6	20771	2	Poppet
7	10261	2	Copper Washer (3/4 X 19/32 X 1/32)
8	20770	2	Connector (Torque to 40/45 in. lbs. oiled)
9	10425	2	Compression Spring (3/8 O.D. X 3/4 Lg.)
10	20776	2	Valve Body
11	10015	4	Cap Screw (Torque to 130/180 in. lbs.)
12	304118	1	Fluid Line Tubing
13	304117	1	Tube
14	11173	2	Fitting
15	304116	2	Fluid Line Tubing
16	29267	1	Regulator Tube
17	14844	1	Fitting
18	13229	1	Elbow
19	50712	1	Gasket
20	21046	1	Poppet
21	22361	1	Regulator Body
22	10495	1	Compression Spring (1/2 O.D. X 1-5/8 lg.)
23	14857	1	Spacer
24	21306	1	Regulator Piston
25	10268	2	O-ring (1/2 X 3/8 X 1/16)
26	208148	1	Cap Screw (3/8-24 X 1-1/2 Lg.)
27	19564	1	Thumb Screw Knob
28	21305	1	Regulator Cap
29	24573	1	Knurl Knob
30	10311	1	Backup Washer
31	10430	3	Tube Sleeve
32	10431	3	Tube Nut (5/8-18 UNF)
33	20787	1	Valve Connector Fitting
34	41839	1	Sub-Plate Manifold
35	200395	1	Gasket
36	10244	4	Lockwasher (For 1/4 bolt)
37	10005	4	Cap Screw (1/4-20 UNC X 1/2 Lg.)
38	13269	1	Reducer
39	21278-15	1	Relief Valve Assembly (Set at 1500/1700 PSI)
43	18841	1	Fitting
44	15456	1	Tube
45	18345	1	Fitting

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 Power Team replacement parts!**

Additional questions can be directed to our Technical Services Department.

BASIC PUMP ASSEMBLY

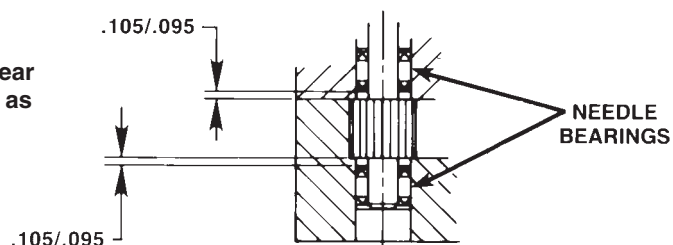


Item No.	Part No.	No. Req'd	Description
1	10020	9	Cap Screw (1/4-20 UNC X 1-1/4" Lg.; Torque to 170-180 in. lbs.)
2	33113	1	High Pressure Pump Assembly (See Sheet 4 of 6)
3	10361	1	Compression Spring (1/4 O.D. X 1" Lg.)
4	10375	1	Steep Ball (1/4" Dia.)
5	23547	1	Bearing Top Plate
6	23548	1	Top Plate
7	11228	2	Thrust Bearing
8	11813	3	Bearing Race
9	11814	1	Ball Bearing
10	23549	1	Angle Plate
11	11955	1	Roll Pin
12	11064	2	Needle Bearing
13	11261	2	Retaining Ring (1-1/8 Shaft)
14	23556	1	Shaft
15	11821	1	Woodruff Key
16	23574	1	Gear
17	40072	1	Pump End Plate
18	10001	13	Cap Screw (Torque to 50 in. lbs.)
19	21091	1	Nylon Coupling
20	21092	1	Adapter
21	21093	1	Key
22	11198	2	Needle Thrust Bearing
23	10266	1	O-ring (3/8 X 1/4 X 1/16)
24	20774	1	Drive Gear
25	10303	1	O-ring (7/8 X 3/4 X 1/16)
26	10425	2	Compression Spring (3/8 O.D. X 3/4 Lg.)
27	20771	2	Poppet
28	40071	1	Pump Body
29	10427	1	Pipe Plug (1/8 NPTF)
30	10271	1	O-ring (11/16 X 1/2 X 3/32)
31	12389	1	Teflon Backup Washer (11/16 x 1/2 X 1/16)
32	20849	1	Spool
33	23255	1	Spring Guide
34	10426	1	Compression Spring (1" O.D. X 1-13/16 Lg.)
35	23256	1	Spring Guide
36	10016	3	Cap Screw (1/4-20 UNC X 1" Lg.)

NOTE: Tandem Pump Units. The quantities listed above are for one assembly.
Two assemblies are required for SST-230T.

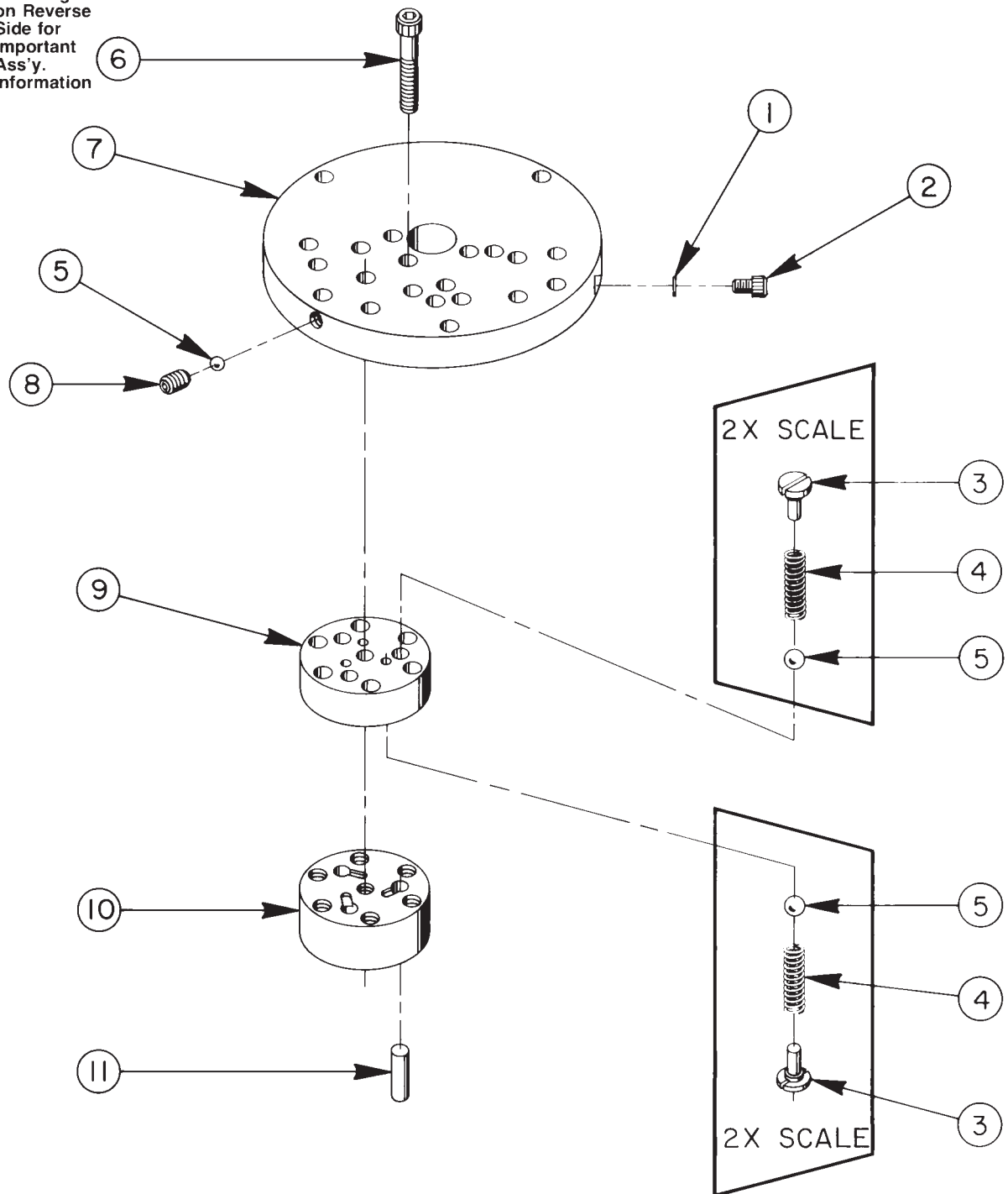
NEEDLE BEARING INSTALLATION SPECIFICATIONS

When replacing the needle bearings on the drive gear of the basic pump, the dimensions shown must be as specified.



HIGH PRESSURE PUMP ASSEMBLY

See Diagram
on Reverse
Side for
Important
Ass'y.
Information

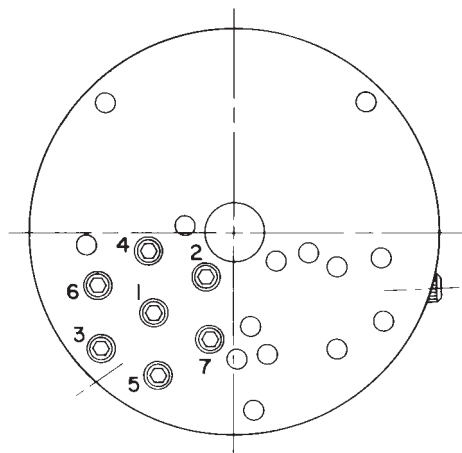


33113 HIGH PRESSURE PUMP ASSEMBLY (3 Pistons – 9/32 Dia.)

Item No.	Part No.	No. Req'd	Description
1	10442	1	Copper Washer (3/8 X 1/4 X 1/32)
2	10002	1	Cap Screw (1/4-20 UNC X 3/8 Lg.; Torque to 140/160 in. lbs.)
3	*24549	6	Valve Guide
4	*10445	6	Compression Spring (5/32 O.D. X 3/4 Lg.)
5	*12223	7	Steel Ball (3/16 Dia.)
6	*10023	7	Cap Screw (1/4-28 UNF X 1-1/2" Lg.; Torque to 170/180 in. lbs.)
7	*50411	1	Top Plate
8	10519	1	Socket Set Screw (1/4-20 UNC X 3/8 Lg.; Torque to 65/70 in. lbs.)
9	*40630	1	Valve Head
10	*41062	1	Pump Barrel
11	*21628	3	Piston

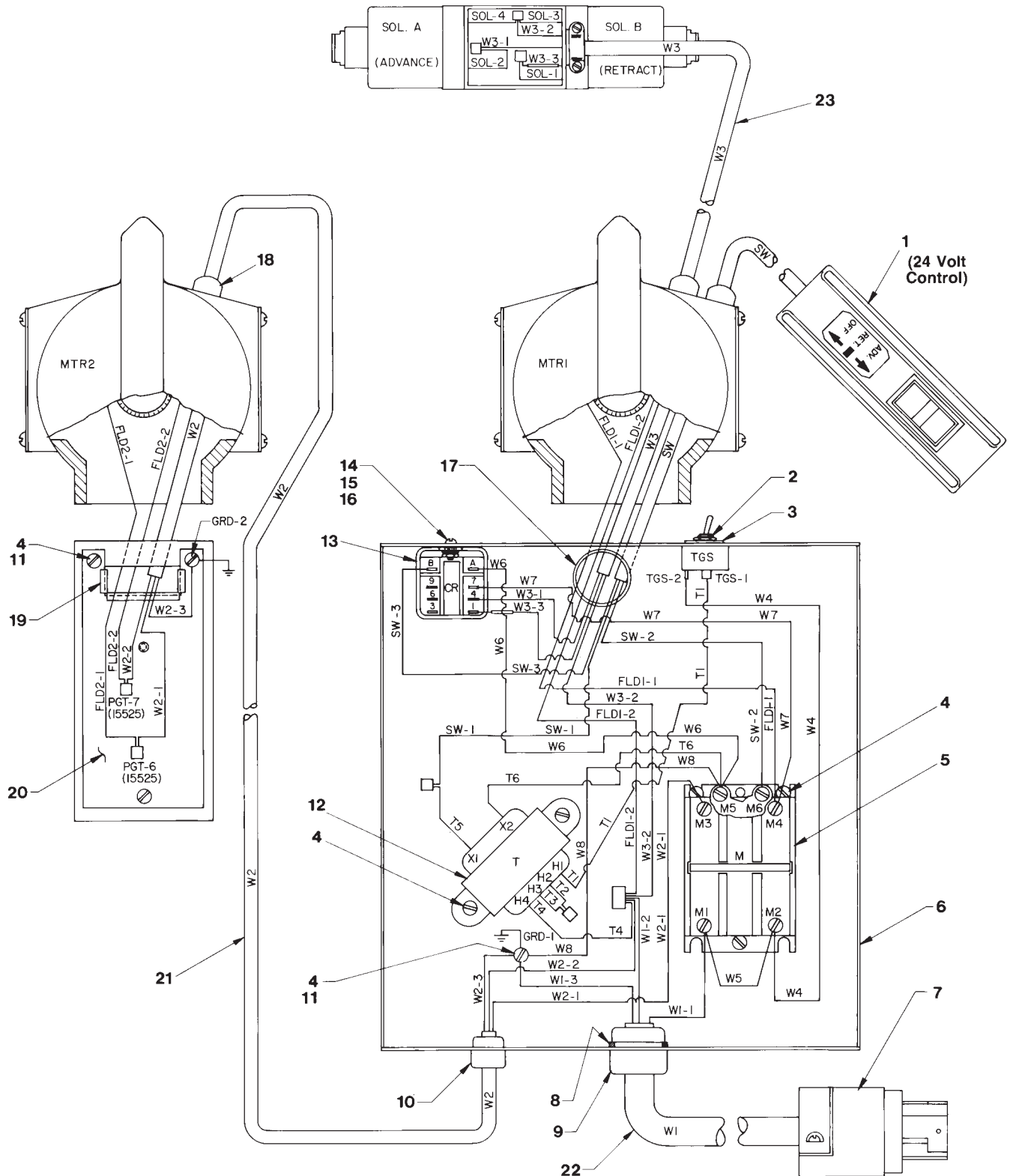
Consult factory when replacing items marked with an asterisk (*).

BOLT TIGHTENING SEQUENCE



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

ELECTRICAL CONTROL ASSEMBLY

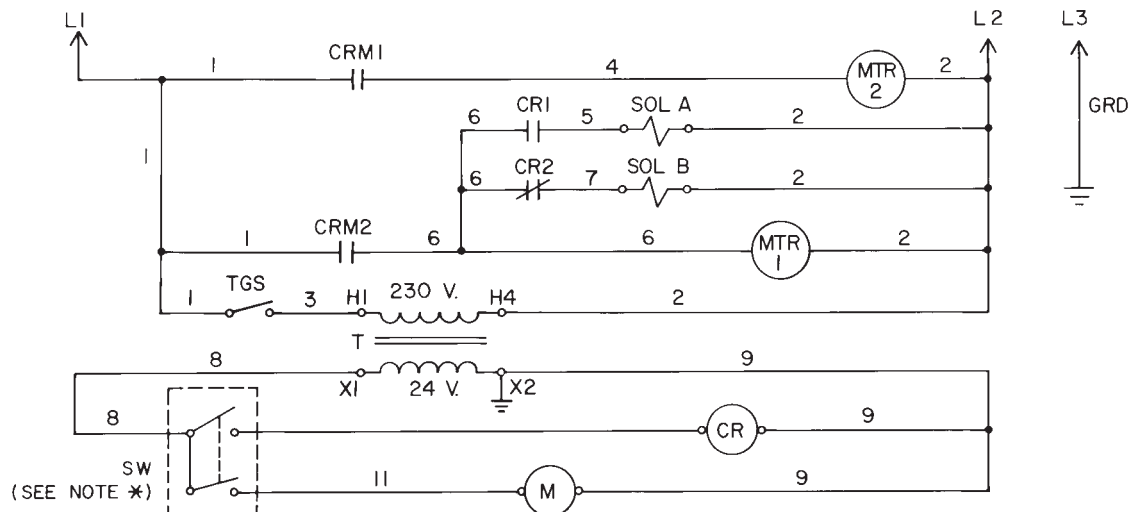


Item No.	Part No.	No. Req'd	Description
1	203083	1	Remote Control Assembly (24 Volt)
2	12301	1	Switch
3	13890	1	Switch Plate
4	10164	11	Machine Screw (#10-24 UNC X 3/8 Lg.)
5	11379-4	1	Starter Relay
	**52060-4	1	Starter Relay
6	51218WH2	1	Electrical Box
7	11338	1	Electrical Plug
8	23506	1	Spacer
9	11431	1	Cord Grip
10	15993	1	Cord Grip
11	11456	6	Lockwasher (#10 External Tooth)
12	11852	1	Transformer
13	39092	1	General Purpose Relay
14	10159	2	Machine Screw (#6-32 UNC X 5/16 Lg.)
15	15906	2	Washer (#6 External Tooth)
16	10195	2	Hex Nut (#6-32 UNC)
17	16022	.24 ft.	Grommet Strip
18	12176	3	Cord Grip
19	22821	1	Rubber Channel
20	304423GY8	1	Mounting Plate
21	12293	2.6 ft.	Electric Cord
22	11859	8 ft.	Electric Cord
23	12908	2 ft.	Electric Cord

** For units built after March, 1983.

ELECTRICAL SCHEMATIC

220/230 V., 50/60 Hz.

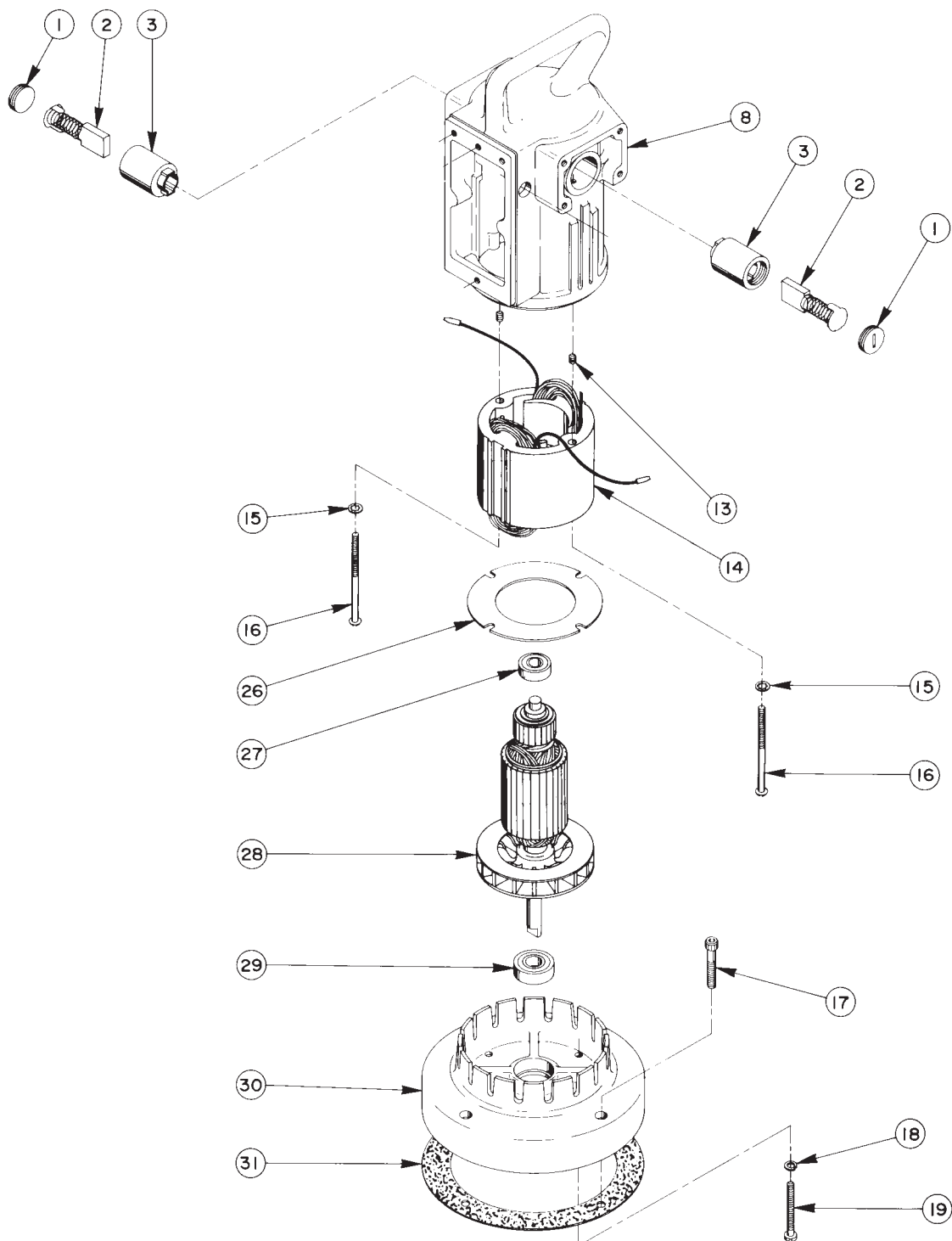


NOTE *

PROGRESSIVE REMOTE CONTROL SWITCH.
 POSITION 1 (OFF): MOTOR OFF, SOLENOID OFF.
 POSITION 2 (RET.): MOTOR ON, SOLENOID "B" ON.
 POSITION 3 (ADV.): MOTOR ON, SOLENOID "A" ON. (MOMENTARY)
 MOTOR STAYS ON BETWEEN POSITION 2 and 3.

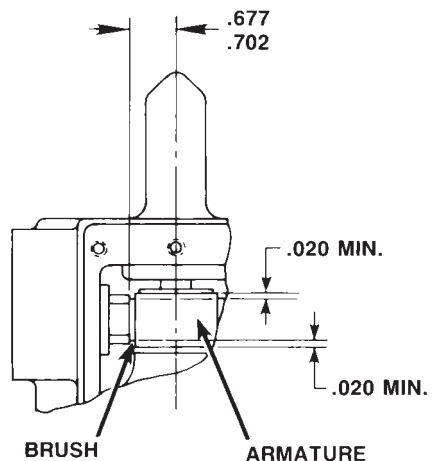
UNIVERSAL MOTOR ASSEMBLY

12,000 RPM – 220/230 V., 50/60 Hz.



Item No.	Part No.	No. Req'd	Description
1	10806	2	Brush Holder Cap
2	10804	2	Brush Assembly
3	10805	2	Brush Holder
8	50160	1	Motor Shell
13	10133	2	Set Screw (#10-24 UNC X 1/4 Lg.)
14	10803	1	Field
15	12356	2	Lockwasher (#10 Internal Tooth)
16	10170	2	Machine Screw (#10-24 UNC X 3-1/4" Lg.)
17	10022	4	Cap Screw (1/4-20 UNC X 1-1/2" Lg.)
18	10241	4	Lockwasher (#10 Bolt)
19	10169	4	Machine Screw (#10-24 UNC X 2" Lg.; Torque to 20/25 in. lbs.)
26	20786	1	Baffle Plate
27	10438	1	Ball Bearing
28	10801	1	Armature
29	10439	1	Ball Bearing
30	40059	1	Motor Base
31	30650	1	Gasket

BRUSH HOLDER & ARMATURE INSTALLATION SPECIFICATIONS



When replacing brushes or the armature, the dimensions shown must be as specified.