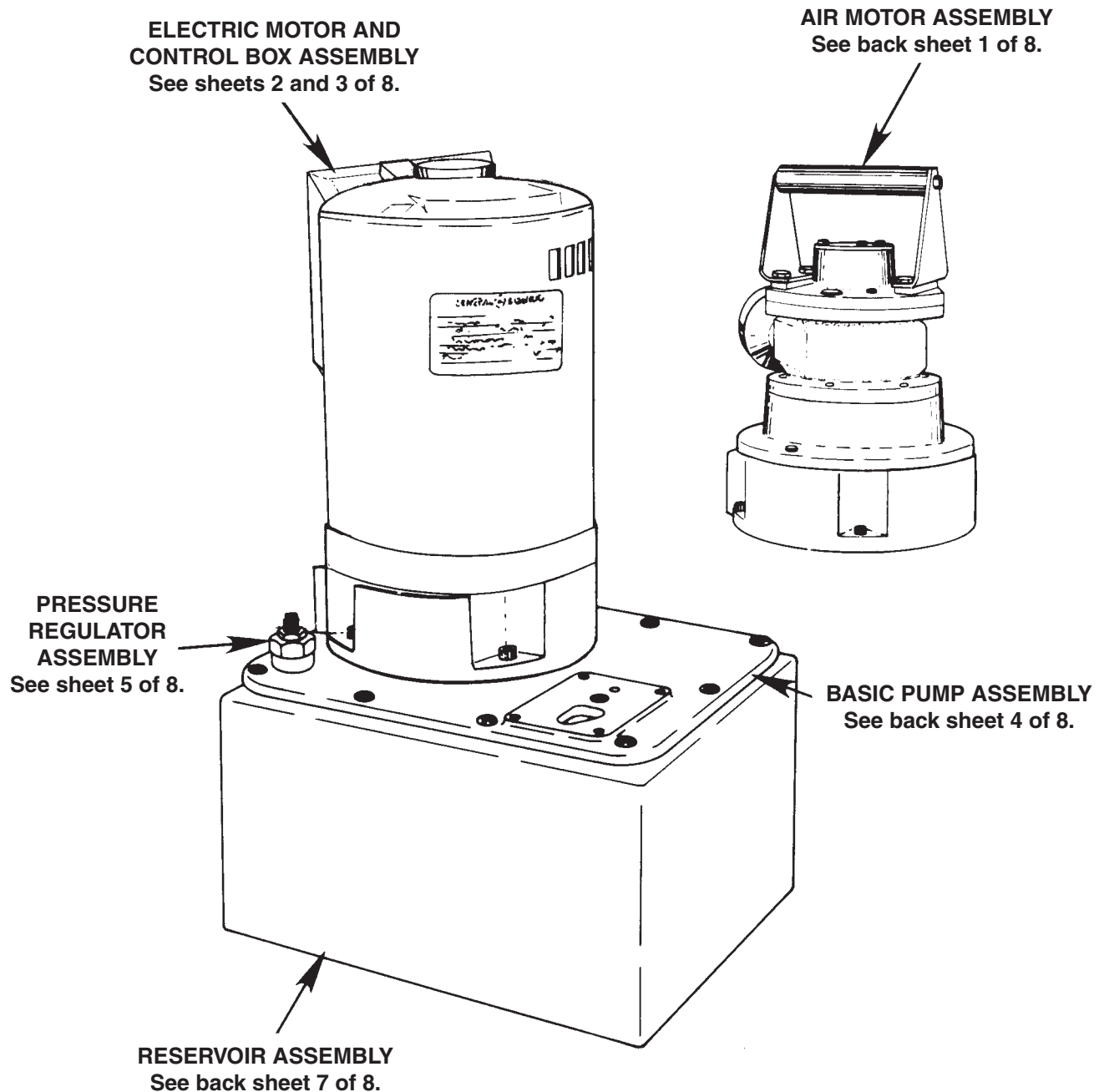


Parts List for:

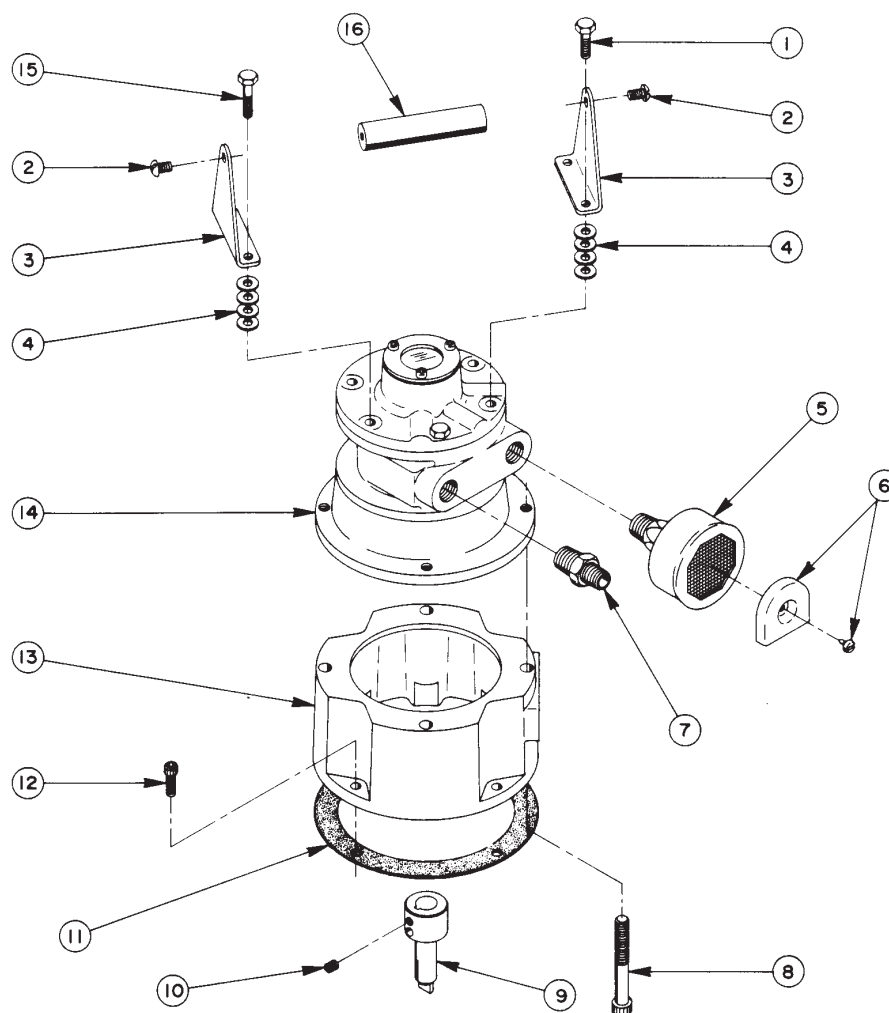
PA55A	PE55D50
PA55A-EMP	PE554V-5
PA90A	PE90C
PE55C	PE90C50
PE55C50	PE90D
PE55D	PE90D50

MODEL B
HYDRAULIC PUMP
GENERAL SECTION



AIR MOTOR ASSEMBLY

(For PA55A, PA55A-EMP & PA90A)



Item No.	Part No.	No. Req'd	Description
1	10014	1	Cap Screw (1/4-28 UNF x 1" Lg.)
2	10174	2	Mach. Screw (1/4-20 UNC x 1/2 Lg.)
3	33808	2	Handle Bracket
4	12719	16	Washer (For 1/4" bolt)
5	13966	1	Muffler
6	205505	1	Deflector
7	14056	1	Reducing Nipple
8	17816	4	Cap Screw (3/8-16 UNC x 3" Lg.)
9	37842	1	Shaft Extension
10	10556	1	Set Screw (1/4-20 UNC x 1/4 Lg.)
11	†30650	1	Gasket
12	10008	4	Cap Screw (1/4-20 UNC x 3/4 Lg.)
13	51158	1	Motor Base
14	*14717	1	Air Motor (For PA55A & PA90A; See Form No. 16138)
15	10018	3	Cap Screw (1/4-28 UNF x 1-1/4 Lg.)
16	28158	1	Handle

Item No.	Part No.	No. Req'd	Description
51159		1	Complete Air Motor Ass'y (Includes Items 1 thru 16)
PARTS INCLUDED BUT NOT SHOWN (FOR PA55A-EMP ONLY)			
10619		1	Tee Fitting (3/8 NPTF)
12203		1	Straight Fitting (3/8 NPTF)
12546		1	Plastic Cap
14056		1	Straight Fitting (3/8 NPFT)
14680		1	Elbow Fitting (90 deg. 1/8 NPTF)
203770		1	Label Run Decal
208218		4	Straight Fitting (1/8 NPTF)
250643		1	Straight Fitting (1/2 NPTF)
308608		1	Air Operated 2-Way Valve
421339		1	Remote Control
421340		1	Two Strand Hose (25')

Part numbers marked with a dagger (†) are contained in Repair Kit No. 300839.

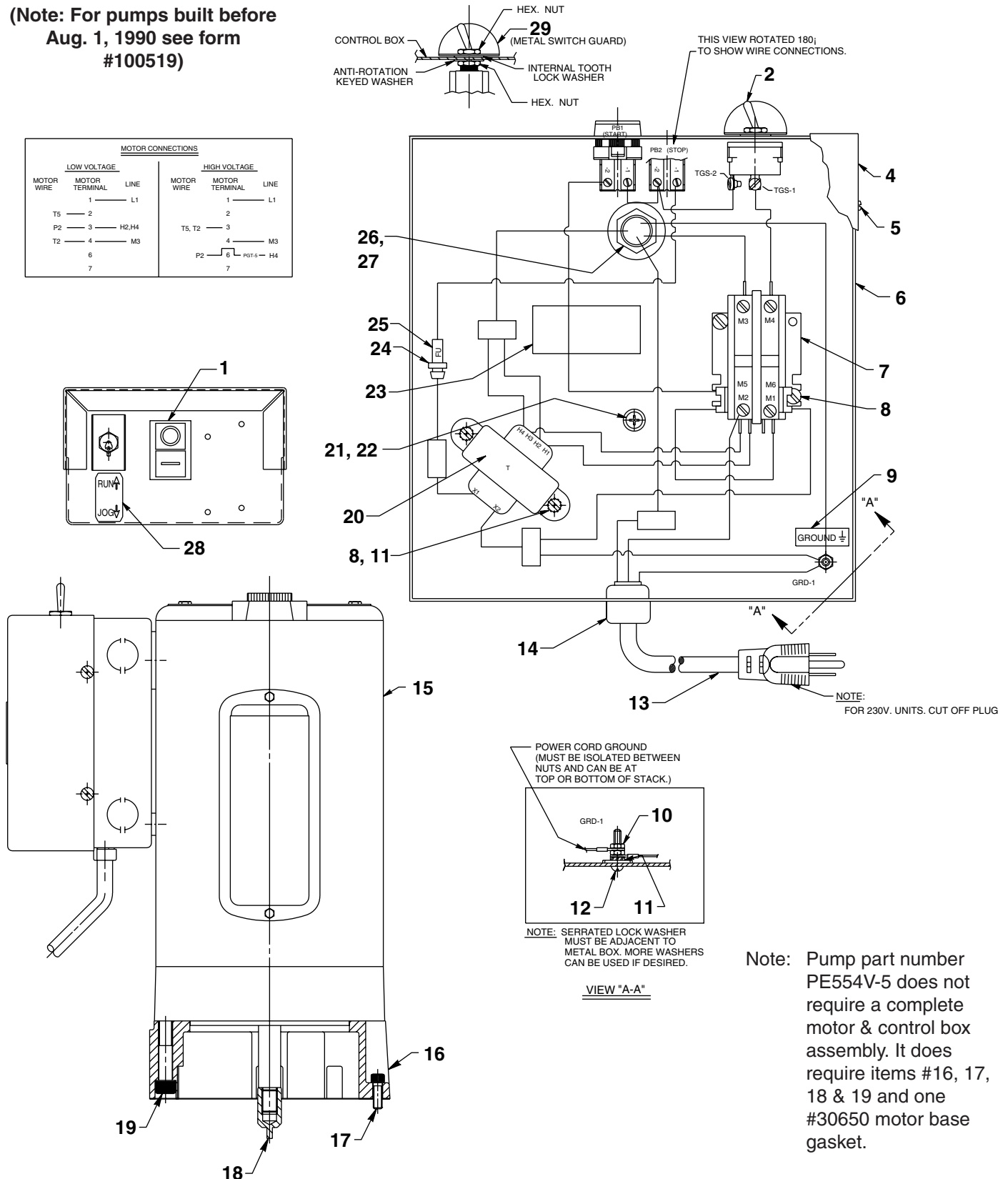
*Note: For air motor repair kit, order #252100.

ELECTRIC MOTOR AND CONTROL BOX ASSEMBLY

(For PE55C, PE55D, PE554V-5, PE90C, & PE90D)

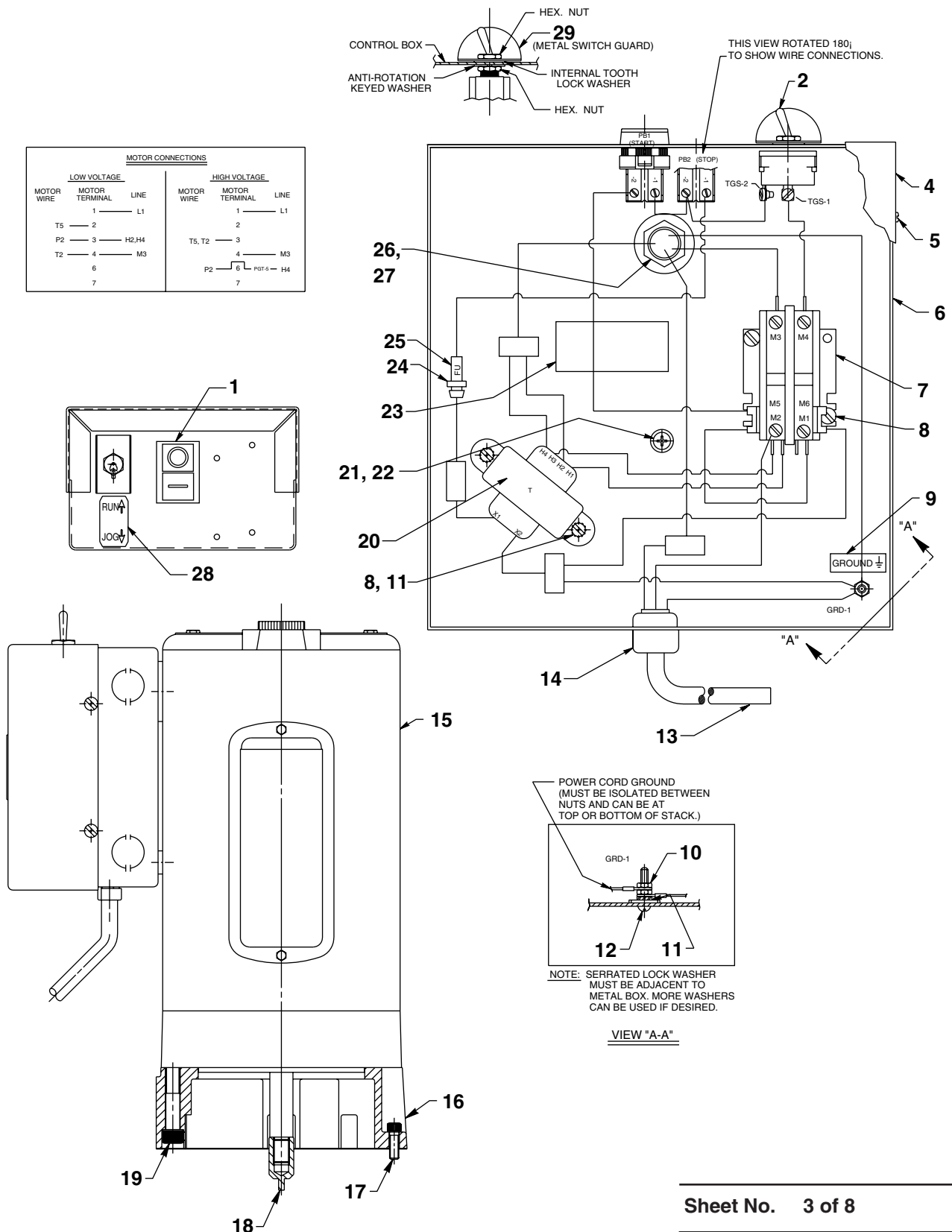
(Note: For pumps built before
Aug. 1, 1990 see form
#100519)

MOTOR CONNECTIONS					
LOW VOLTAGE			HIGH VOLTAGE		
MOTOR WIRE	MOTOR TERMINAL	LINE	MOTOR WIRE	MOTOR TERMINAL	LINE
	1	L1		1	L1
T5	2			2	
P2	3	H2, H4	T5, T2	3	
T2	4	M3		4	M3
	6		P2	6	POT-6 - H4
	7			7	

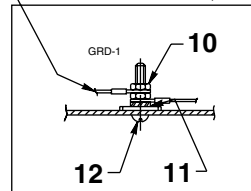


ELECTRIC MOTOR AND CONTROL BOX ASSEMBLY **(For PE55C50, PE55D50, PE90C50, & PE90D50)**

MOTOR CONNECTIONS					
LOW VOLTAGE			HIGH VOLTAGE		
MOTOR WIRE	MOTOR TERMINAL	LINE	MOTOR WIRE	MOTOR TERMINAL	LINE
	1	L1		1	L1
T5	2			2	
P2	3	H2, H4	T5, T2	3	
T2	4	M3		4	M3
	6		P2	6	PST-5 H4
	7			7	



POWER CORD GROUND
 (MUST BE ISOLATED BETWEEN
 NUTS AND CAN BE AT
 TOP OR BOTTOM OF STACK.)



NOTE: SERRATED LOCK WASHER
 MUST BE ADJACENT TO
 METAL BOX. MORE WASHERS
 CAN BE USED IF DESIRED.

VIEW "A-A"

Item No.	Part No.	No. Req'd	Description	Item No.	Part No.	No. Req'd	Description
1	309019	1	Double Push Button Switch	18	21274	1	Shaft Adapter
2	12301	1	Toggle Switch (On-Off)	19	12866	4	Soc. Hd. Cap Screw (5/16-18 x 2-1/2 Lg.)
3	204577	1	Decal (On-Off)	20	11852	1	Transformer
4	43126BK2	1	Control Box Cover		*350072	1	Transformer
5	14812	4	Pan Hd. Tapping Screw (#8-18 x 3/8 Lg.)	21	13532	1	Pan Hd. Tapping Screw (#8-32 x 3/8 Lg.)
6	51218BK2	1	Control Box	22	206857	1	Washer (17/32 x 3/16 x 1/8)
7	420718-4	1	Contact	23	250150	1	Decal (Fuse)
8	11539	4	Machine Screw (#10-24 x 1/4 Lg.)		*250272	1	Decal (Fuse)
9	205189	1	Decal (Ground)	24	206962	1	Fuse (3 amp)
10	10197	2	Hex Nut (#10-24)		*16888-8	1	Fuse (8 amp)
11	11108	3	Washer (#10 External Tooth)	25	16887	1	Fuse Holder
12	11856	1	Rd. Hd. Machine Screw (#10-24 x 1" Lg.)	26	11202	1	Conduit Nipple
13	307439	1	Cord Set (12/3 SJT0)	27	18286	1	Washer (1-23/64 x 57/64 x 1/16 thk.)
14	210112	1	Strain Relief Bushing	28	352081	1	Run/Jog Label Decal
15	10865	1	Electric Motor	29	352061	1	Switch Guard
16	40118BK2	1	Motor Base				
17	10008	4	Soc. Hd. Cap Screw (1/4-20 x 3/4 Lg.)				

PARTS INCLUDED BUT NOT SHOWN

†200188 1 Warning Decal

*For pumps equipped with solenoid valve
Part numbers marked with a dagger (†) are contained in Repair Kit No. 300839.

ELECTRIC SCHEMATIC
(110/220 V., 60Hz.; SINGLE PHASE)

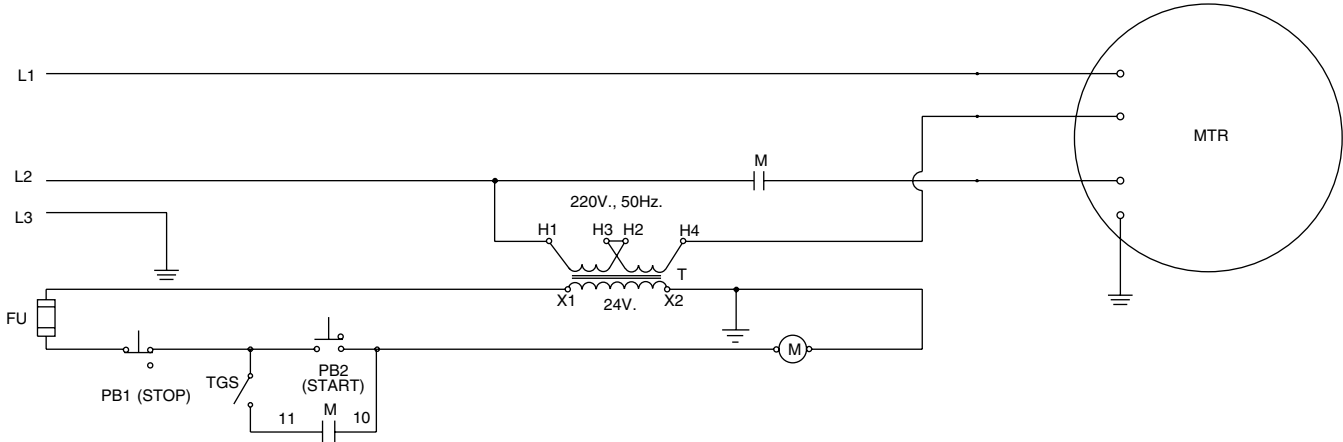


WARNING

To help avoid personal injury, all electrical work must be done by a qualified electrician.

North American & International Color Codes

Conductors	North American	International
Line	Black	Brown
Neutral	White	Blue
Ground	Green	Green/Yellow

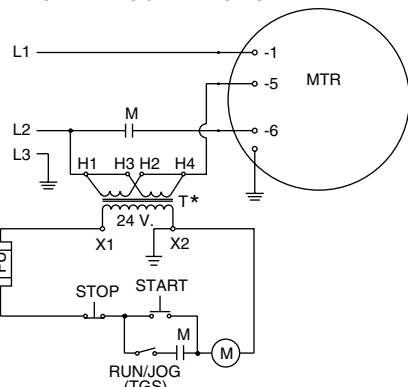


NOTE:
Unless otherwise specified all units are to be wired for 220V. - 50 Hz. (CCW rotation from lead end)
Transformer connections are as shown for 220V. - 50 Hz.
For 110V. - 50 Hz. units, transformer connections to be as follows:

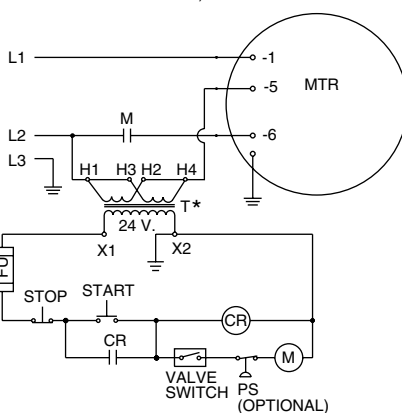
- H1 to L1
- H2 to H3
- H4 to MTR-5

Note: Shaded areas reflect last revision(s) made to this form.

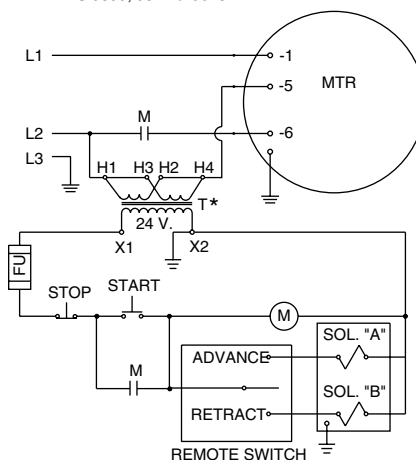
ELECTRICAL SCHEMATICS

ELECTRICAL SCHEMATIC FOR UNITS WITH
MANUAL VALVES OR MANIFOLDS

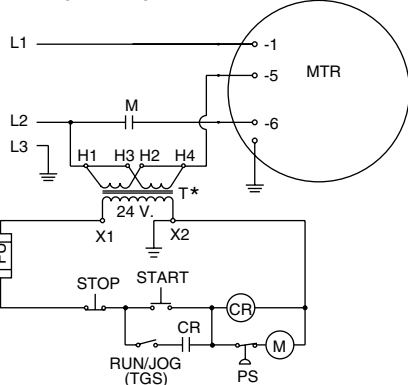
1

ELECTRICAL SCHEMATIC FOR UNITS WITH
VALVE SWITCH 9583 (WITH OR WITHOUT
PRESSURE SWITCH 9625)

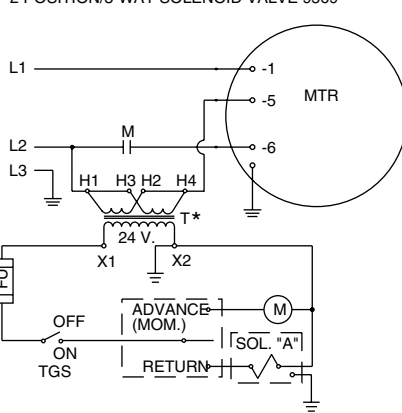
4

ELECTRICAL SCHEMATIC FOR UNITS WITH
3 POSITION/3-WAY OR 4-WAY SOLENOID
VALVES 9599, 9512 & 9615

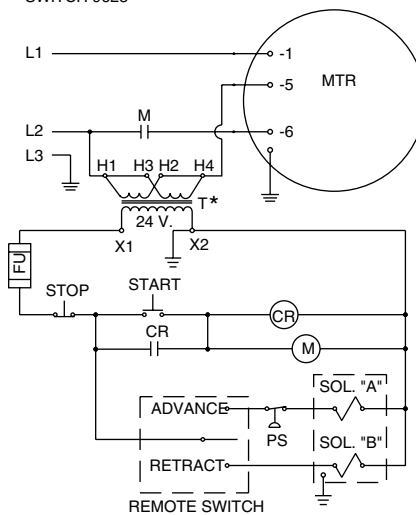
7

ELECTRICAL SCHEMATIC FOR UNITS WITH
PRESSURE SWITCH 9625 AND MANUAL
VALVE OR MANIFOLD

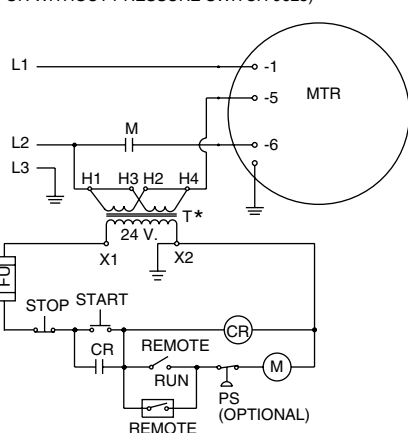
2

ELECTRICAL SCHEMATIC FOR UNITS WITH
2 POSITION/3-WAY SOLENOID VALVE 9569

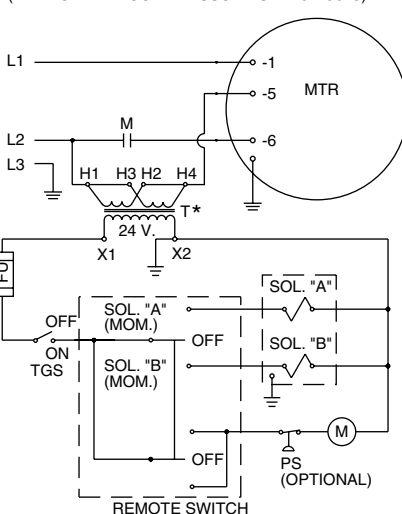
5

ELECTRICAL SCHEMATIC FOR UNITS WITH
3 POSITION/3-WAY OR 4-WAY SOLENOID
VALVES 9599, 9512 & 9615 WITH PRESSURE
SWITCH 9625

8

ELECTRICAL SCHEMATIC FOR UNITS WITH
REMOTE MOTOR CONTROL SWITCH (WITH
OR WITHOUT PRESSURE SWITCH 9625)

3

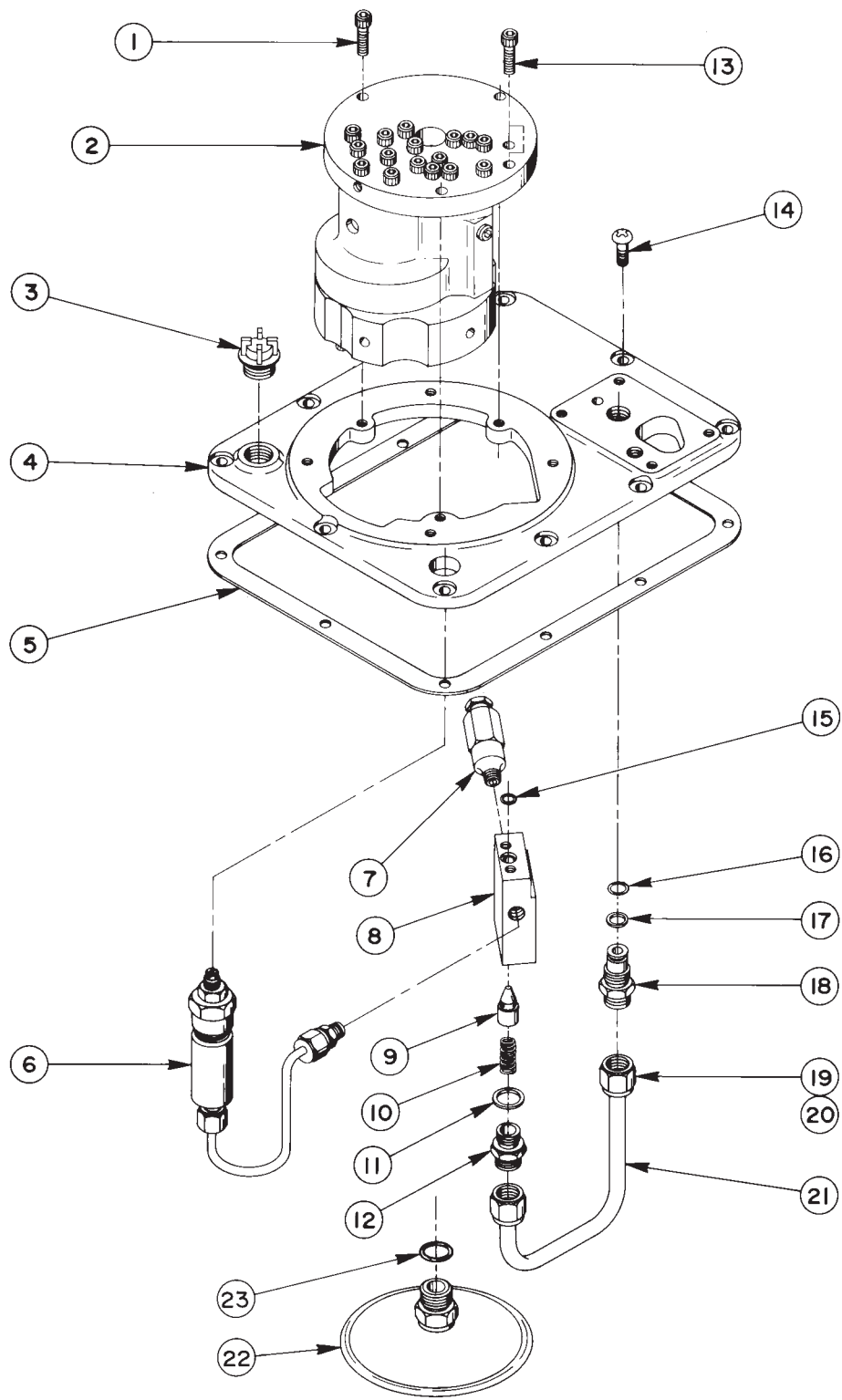
ELECTRICAL SCHEMATIC FOR UNITS WITH
2 POSITION/4-WAY SOLENOID VALVE 9572
(WITH OR WITHOUT PRESSURE SWITCH 9625)

6

* NOTE: TRANSFORMER CONNECTIONS SHOWN
ARE FOR 115 V., 60 HZ. FOR 230 V.,
60 HZ. UNITS, TRANSFORMER CONNECTIONS
TO BE AS FOLLOWS:

H1 TO L1
H2 & H3 TOGETHER
H4 TO MTR-3

GENERAL PUMP ASSEMBLY



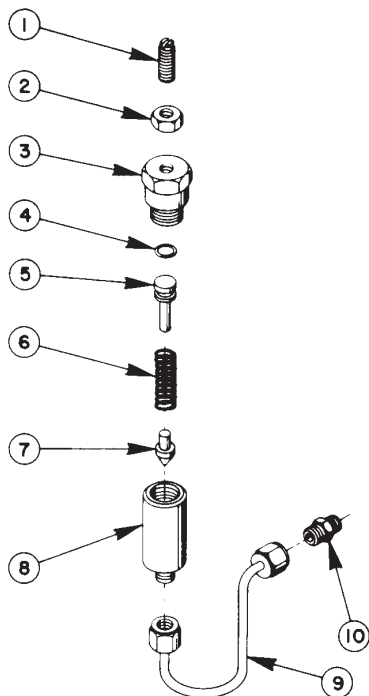
Item No.	Part No.	No. Req'd	Description	Item No.	Part No.	No. Req'd	Description
1	10016	3	Soc. Hd. Cap Screw (1/4-20 UNC x 1" Lg.)	9	20771	1	Poppet
2	*27206	1	Basic Pump Assembly Replacement (See chart below)	10	10425	1	Compression Spring (3/8 O.D. x 3/4 Lg.)
	*28349	1	Basic Pump Assembly Replacement (See chart below)	11	10261	1	Copper Washer (3/4 x 19/32 x 1/32)
3	20937	1	Filler Plug	12	20770	1	Connector (Torque to 40/45 in. lbs.)
4	40064WH2	1	Cover (For PA55A, PA55A-EMP & PA90A)	13	10015	2	Soc. Hd. Cap Screw (1/4-28 UNF x 1" Lg.; Torque to 180 in. lbs.)
	40064BK2	1	Cover (For PE55C, PE55C50, PE55D, PE55D50, PE90C, PE90C50, PE90D & PE90D50)	14	10177	10	Machine Screw (1/4-20 UNC x 3/4 Lg.)
5	†40164	1	Gasket	15	†10266	1	O-ring (3/8 x 1/4 x 1/16)
6	22360	1	Pressure Regulator Assembly (See below)	16	†10268	1	O-ring (1/2 x 3/8 x 1/16)
7	21278	1	Relief Valve (Set at 10,100/10,700 PSI)	17	†11863	1	Teflon Backup Washer (1/2 x 3/8 x 1/16)
	21278-50	1	Relief Valve (Set at 5,100/5,700 PSI)	18	20787	1	Valve Connector
8	20776	1	Valve Body	19	10430	2	Tube Sleeve
				20	10431	2	Tube Nut
				21	21045	1	Oil Line
				22	21345	1	Filter Assembly (Includes Item #23)
				23	†10527	1	O-ring (13/16 x .644 x .087)

Part numbers marked with a dagger (†) are contained in Repair Kit No. 300839.

*Includes all items on back sheet 5 of 8 and items 1, 7, 8, 9, 10, 11, 12, 13, 15 & 22 on this sheet.

LOW SPEED (3,450 RPM)

Models	Max. PSI	Basic Pump & Cover Plate Ass'y	Basic Pump Ass'y Replacement	High Press. Pump Ass'y	No. of Pistons
PA55A, PA55A-EMP	10,000	50404	*27206	33113	3
PE55C, PE55C50, PE55D, PE55D50	10,000	58867	*27206	33113	3
PA90A	5,000	50406	*28349	33114	6
PE90C, PE90C50, PE90D, PE90D50	5,000	58868	*28349	33114	6

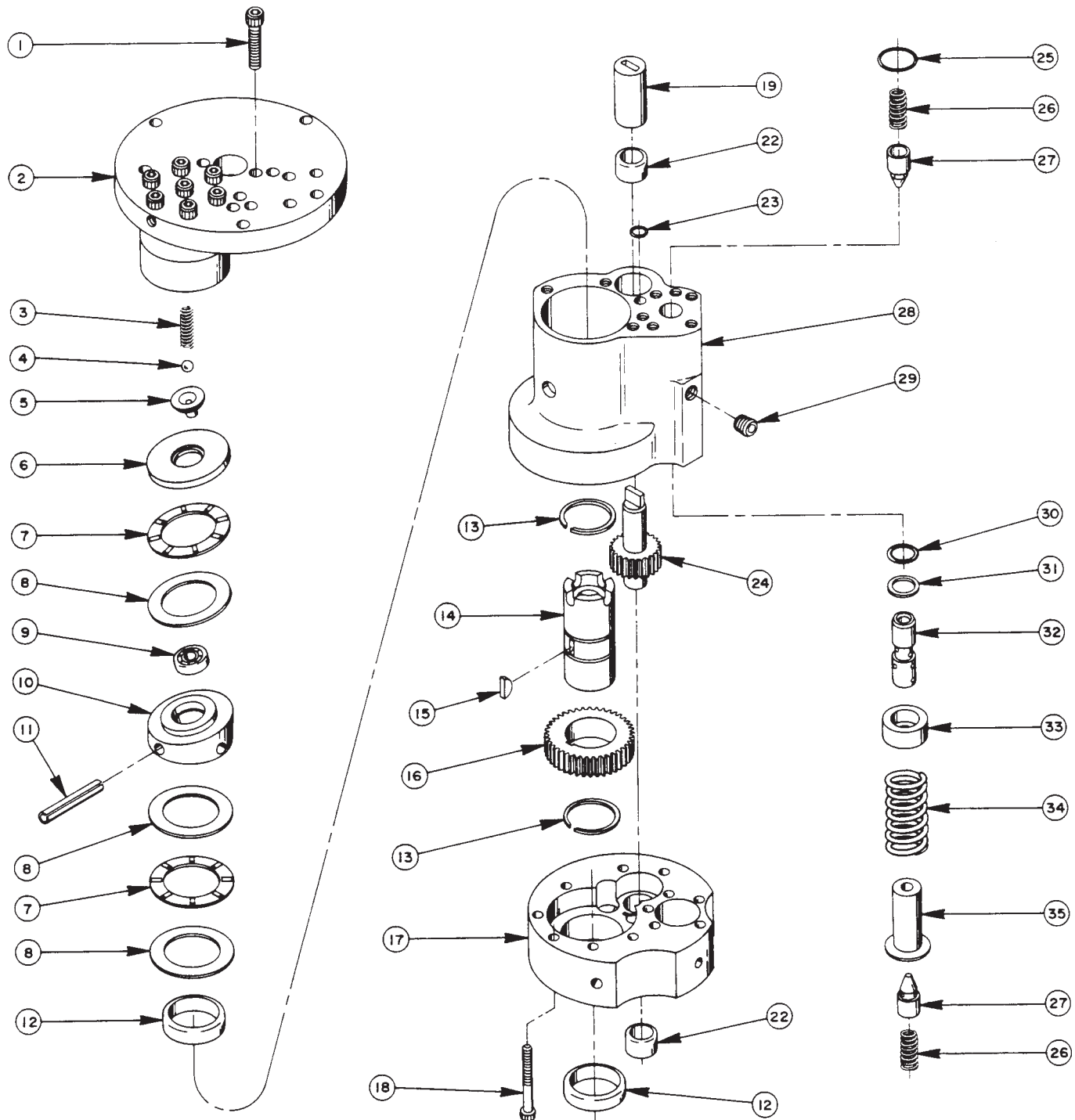


PRESSURE REGULATOR ASSEMBLY

Item No.	Part No.	No. Req'd	Description
1	22362	1	Adjusting Screw
2	10386	1	Hex Jam Nut (3/8-24 UNF)
3	21305	1	Valve Cap
4	†10268	1	O-ring (1/2 x 3/8 x 1/16)
5	21306	1	Spring Guide
6	10495	1	Compression Spring
7	21046	1	Valve Stem
8	22361	1	Body
9	29267	1	Oil Line Assembly (with nuts)
10	14844	1	Connector Fitting

Part numbers marked with a dagger (†) are contained in Repair Kit No. 300839.

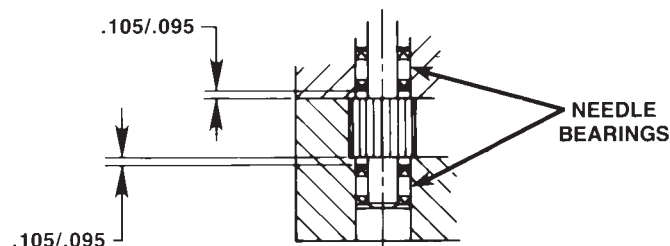
BASIC PUMP ASSEMBLY



Item No.	Part No.	No. Req'd	Description
1	10020	9	Soc. Hd. 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 back sheet 6 of 8 and chart on sheet 5 of 8)
	33114	1	High Pressure Pump Assembly (See back sheet 6 of 8 and chart on sheet 5 of 8)
3	10361	1	Compression Spring (1/4 O.D. x 1" Lg.)
4	10375	1	Steel 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
14	23556	1	Shaft
15	11821	1	Woodruff Key
16	23557	1	Gear
17	30533	1	Pump End Plate
18	10001	12	Soc. Hd. Cap Screw (#10-32 UNF x 1-3/4 Lg.; Torque to 50 in. lbs.)
19	21091	1	Zinc Coupling
22	11199	2	Needle Thrust Bearing (See note below)
23	†10266	1	O-ring (3/8 x 1/4 x 1/16)
24	21272	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	40120	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

Part numbers marked with a dagger (†) are contained in Repair Kit No. 300839.

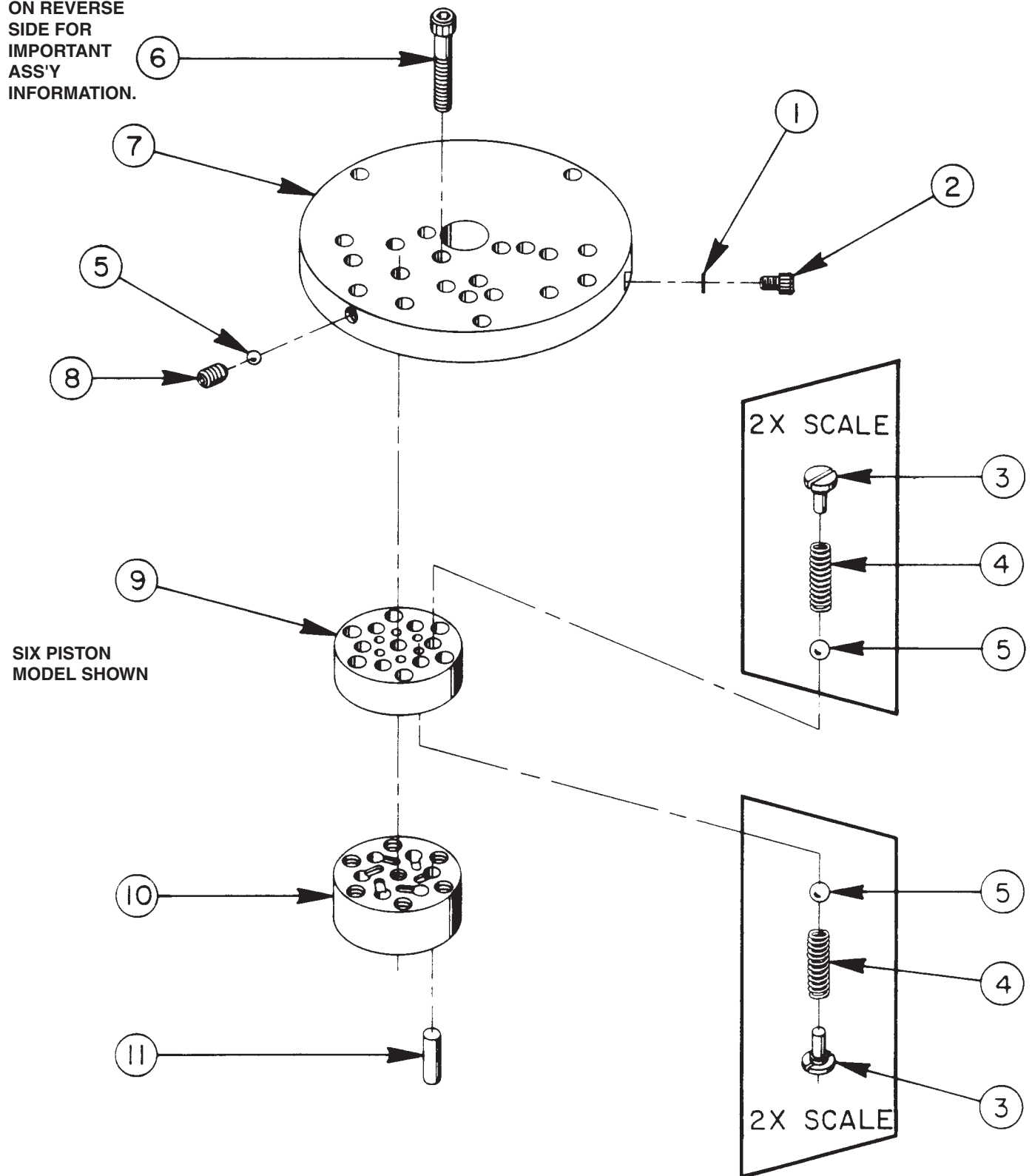
NEEDLE BEARING INSTALLATION SPECIFICATIONS



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

HIGH PRESSURE PUMP ASSEMBLY

SEE DIAGRAM
ON REVERSE
SIDE FOR
IMPORTANT
ASS'Y
INFORMATION.



33113 PUMP ASSEMBLY

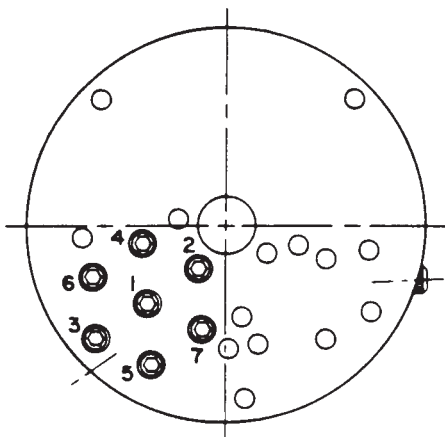
3 Pistons - 9/32 Dia.

Item No.	Part No.	No. Req'd	Description
1	10442	1	Copper Washer (3/8 x 1/4 x 1/32)
2	10002	1	Soc. Hd. 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	Soc. Hd. Cap Screw (1/4-28 UNF x 1-1/2 Lg.; Torque to 170/180 in. lbs.; See note below)
7	50411	1	Top Plate
8	10519	1	Soc. 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

33114 PUMP ASSEMBLY

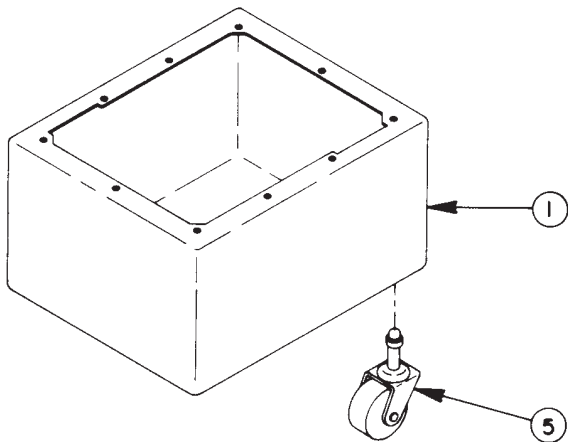
6 Pistons - 9/32 Dia.

Item No.	Part No.	No. Req'd	Description
1	10442	1	Copper Washer (3/8 x 1/4 x 1/32)
2	10002	1	Soc. Hd. Cap Screw (1/4-20 UNC x 3/8 Lg.; Torque to 140/160 in. lbs.)
3	24549	12	Valve Guide
4	10445	12	Compression Spring (5/32 O.D. x 3/4 Lg.)
5	12223	13	Steel Ball (3/16 dia.)
6	10023	7	Soc. Hd. Cap Screw (1/4-28 UNF x 1-1/2 Lg.; Torque to 170/180 in. lbs.; See note below)
7	50411	1	Top Plate
8	10519	1	Soc. Set Screw (1/4-20 UNC x 3/8 Lg.; Torque to 65/70 in. lbs.)
9	41048	1	Valve Head
10	41063	1	Pump Barrel
11	21628	6	Piston

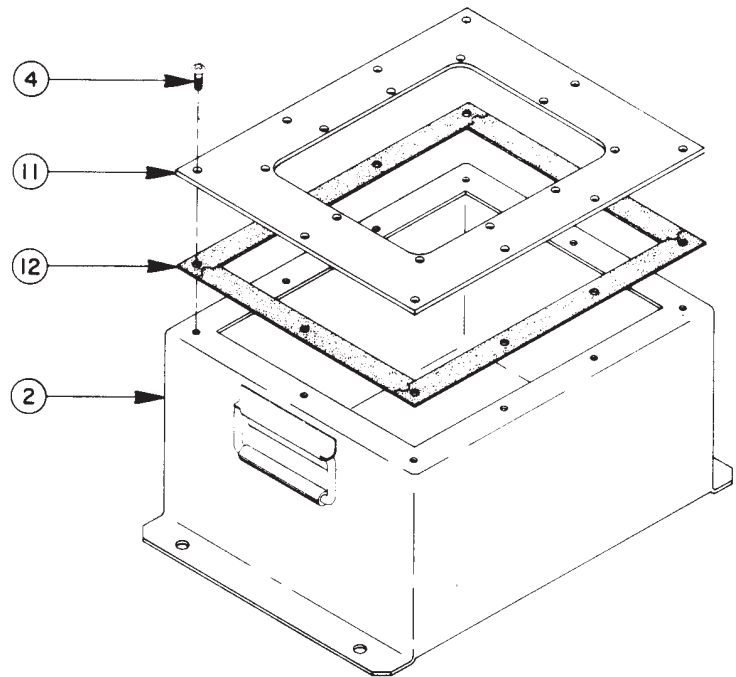
**BOLT TIGHTENING SEQUENCE**

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

2 GAL. RESERVOIRS

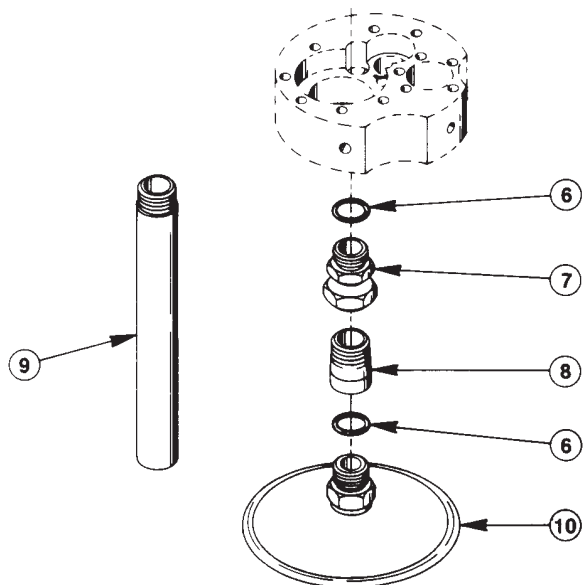


5 & 10 GAL. RESERVOIRS

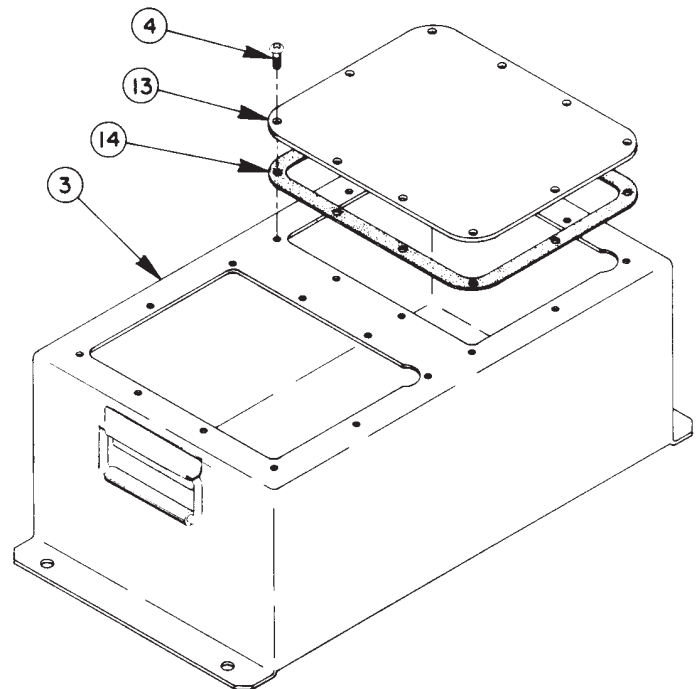


FILTER & EXTENSIONS

Used on 5, 7 & 10 Gas. Reservoirs as Applicable



7 GAL. RESERVOIR



RESERVOIR ASSEMBLIES**NOTE: For complete Reservoir Assembly order the following:**

RP50	---	5 Gal. Reservoir Assembly
209124	---	7 Gal. Reservoir Assembly
RP100	---	10 Gal. Reservoir Assembly

These numbers include the following parts listed below as applicable.

Item No.	Part No.	No. Req'd	Description
1	40063OR9	1	2 Gal. Reservoir
	60597OR9	1	2 Gal. Reservoir with handles & drain
	61799OR9	1	2 Gal. Reservoir with drain
2	40137OR9	1	5 Gal. Reservoir
	40193OR9	1	10 Gal. Reservoir
3	50051OR9	1	7 Gal. Reservoir
4	10177	10	Machine Screw (1/4-20 UNC x 3/4 Lg.)
5	10494	4	Swivel Caster (For 2 Gal. Reservoir)
6	10527	2	O-ring (13/16 x .644 x .087)
7	10528	1	Adapter Union
8	22033	1	Suction Line (For 5 & 7 Gal. Reservoirs)
9	22037	1	Suction Line (For 10 Gal. Reservoir)
10	21345	1	Filter Assembly
11	40194AL2	1	Adapter Cover Plate (For 5 & 10 Gal. Reservoirs)
	40194BK2	1	Adapter Cover Plate (For PE554V-5)
12	40490	1	Gasket (For 5 & 10 Gal. Reservoirs)
13	40188AL2	1	Cover Plate (For 7 Gal. Reservoir)
14	†40164	1	Gasket (For 7 Gal. Reservoir)

PARTS NOT SHOWN

309219	2	Trade Name Decal
19779	1	Seal Washer (.73 x .42; For 2 gal. reservoir drain plug, For PA55A-EMP)
10412	1	Socket Hd Screw (3-8/16 x 1/2; For 2 gal. reservoir drain plug, For PA55A-EMP)

Part numbers marked with a dagger (†) are contained in Repair Kit No. 300839.

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.