

Parts List For:

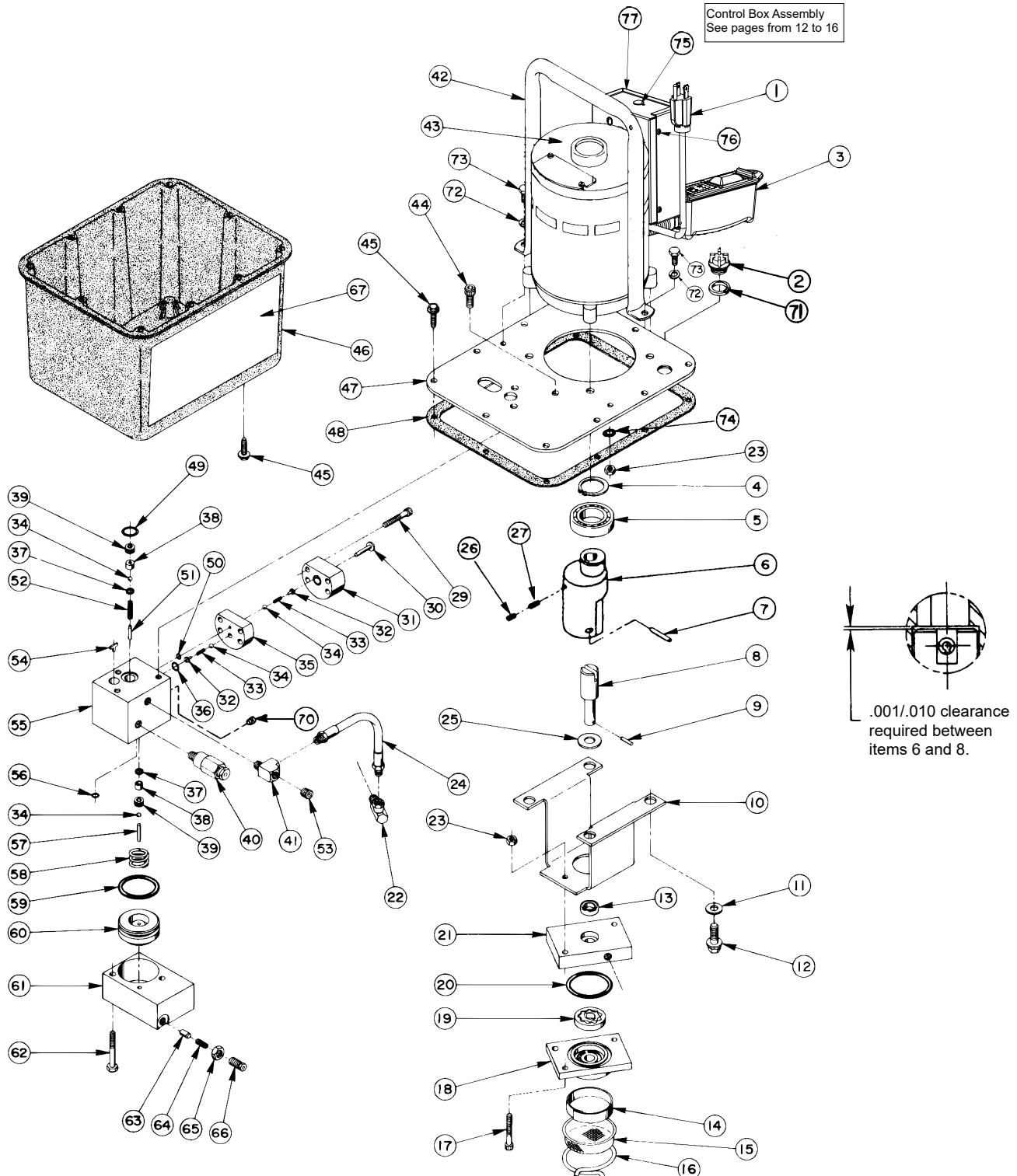
PA172
PA174
*PE172
*PE172A

*PE172AM
PE172AM-50-220
*PE172M
*PE172M-50-220

*PE174
*PE174M
PE174M-50-220

* Model B Units

HYDRAULIC PUMP



PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY.
1	24733	CORD SET (Elect. Version)	1
2	20937	FILLER/VENT PLUG	1
	†27142	FILLER/VENT PLUG	1
3	25017	REMOTE HAND SWITCH ASS'Y (Elect. Version; See Form NO. 101644)	1
4	209798	RETAINING RING (1-3/16 Shaft)	1
5	209805	BALL BEARING	1
6	45596	ECCENTRIC	1
7	10973	SLOTTED SPRING PIN	1
8	304835	DRIVE SHAFT	1
9	209794	GEROTOR DRIVE PIN	1
10	52174	PUMP MOUNTING BRACKET	1
11	10258	WASHER (3/8 Bolt)	4
12	213663	CAP SCREW (3/8-16 UNC X 1" Lg.; Torque to 230/250 In. Lbs.)	4
13	*304830	SEAL	1
	†250156	SEAL	1
14	21846	FILTER SUPPORT	1
15	21608	FILTER	1
16	11461	CLAMP RING	1
17	10854	CAP SCREW (1/4-20 UNC X 1-3/4 Lg.; Torque to 60/80 In. Lbs.)	2
18	61169	LOWER GEROTOR HOUSING	1
19	304826	GEROTOR SET	1
20	*10922	O-RING (2-1/8 X 1-15/16 X 3/32)	1
	†250158	O-RING (2-1/8 X 1-15/16 X 3/32)	1
21	61170	UPPER GEROTOR HOUSING	1
22	14440	SWIVEL ELBOW FITTING	1
23	10199	NUT (Air & Electric Versions)	4
24	304819	HOSE ASS'Y	1
25	12595	BRASS WASHER (1/2 Bolt)	1
26	10519	SET SCREW (Torque to 60/80 In. Lbs.)	1
27	10136	SET SCREW (Air Version)	1
29	10022	CAP SCREW (1/4-20 UNC X 1-1/2 Lg.; Torque to 110/130 In. Lbs.)	4
30	304820	HIGH PRESSURE PISTON	1
31	45560	PISTON BLOCK	1
32	24549	VALVE GUIDE	2
33	*10445	COMPRESSION SPRING (5/32 O. D. X 3/4 Lg.)	2
34	*12223	BALL (3/16 Dia.)	4
35	45559	CHECK BLOCK	1
36	*14763	O-RING (7/16 X 5/16 X 1/16)	1
	†13472	O-RING (7/16 X 5/16 X 1/16)	1

Parts List Continued

ITEM	PART NO.	DESCRIPTION	QTY.
37	*10442	COPPER WASHER (3/8 X 1/4 X 1/32 THK.)	2
38	*209787	REPLACEABLE SEAT	2
39	209797	HOLLOW LOCK SCREW (7/16-20 UNF-3A; Torque to 110/130 In. Lbs.)	2
40	21278	RELIEF VALVE ASS'Y	1
41	19463	TEE FITTING	1
42	47492	HANDLE (Air & Electric Versions)	1
43	58196WH2	ELECTRIC MOTOR (115/230V 60HZ 1PH .5HP 3450: For *PE172, *PE172A, *PE172AM, *PE172M, *PE174 and *PE174M)	1
	59314BK2	ELECTRIC MOTOR (115/230V 50/60HZ 1PH .5HP; For PE172AM-50-220, *PE172M-50-220 and PE174M-50-220)	1
44	10030	CAP SCREW (5/16-18 UNC X 3/4 Lg.; Torque to 220/240 In. Lbs.)	1
45	209799	SELF-TAPPING SCREW (1/4-10 X 7/8 Lg.)	AR
	10177	SCREW (1/4-20 UNC X 3/4 Lg.; For pumps with metal reservoirs.)	10
46	61165	RESERVOIR (For PA172, PA174, *PE172, *PE172A, *PE174)	1
	64538OR9	RESERVOIR (For *PE172M, *PE172AM, *PE174M, PE172AM-50-220, PE172A-50-220 and *PE174M-50-220)	1
47	61166BK2	COVER PLATE	1
48	*40164	COVER GASKET	1
49	*10273	O-RING (13/16 X 5/8 X 3/32)	1
	†250157	O-RING (13/16 X 5/8 X 3/32)	1
50	*10265	O-RING (5/16 X 3/16 X 1/16)	1
	†17714	O-RING (5/16 X 3/16 X 1/16)	1
51	12149	DOWEL PIN (1/8 Dia. X 3/4 Lg.)	1
52	*16057	COMPRESSION SPRING (3/16 O.D. X 1" Lg.)	1
53	10427	PIPE PLUG (1/8 NPTF)	1
54	209795	OUTLET BALL STOP	1
55	61167	CHECK BODY	1
56	*10266	O-RING (3/8 X 1/4 X 1/16)	1
	†17715	O-RING (3/8 X 1/4 X 1/16)	1
57	211843	DOWEL PIN (3/16 Dia. X 1" Lg.; Loctite pin in piston hole with radius end out)	1
58	*16346	COMPRESSION SPRING (1" O.D. X 7/8 Lg.)	1
59	*10283	O-RING (2" X 1-5/8 X 3/16)	1
	†250159	O-RING (2" X 1-5/8 X 3/16)	1
60	46063	AUTOMATIC VALVE PISTON	1
61	52167	AUTOMATIC VALVE BLOCK	1
62	13037	CAP SCREW (1/4-20 UNC X 2" Lg.; Torque to 40/50 In. Lbs.)	2
63	15156	DOWEL PIN (1/4 Dia. X 1/2 Lg.; Tapered end toward spring)	1
64	11221	COMPRESSION SPRING (1/4 O.D. X 1" Lg.)	1
65	10386	LOCKNUT (3/8-24 UNF)	1
66	*29786	ADJUSTING SCREW	1

Parts List Continued

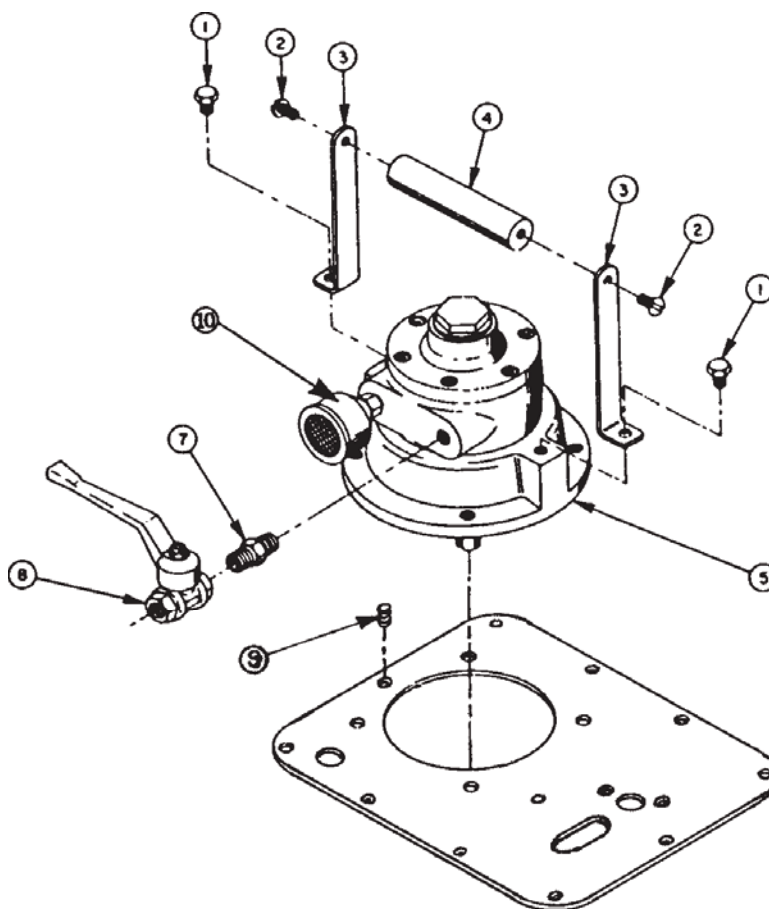
ITEM	PART NO.	DESCRIPTION	QTY.
67	309219	TRADE NAME DECAL (For PE17 Series and PA17 Series)	2
70	15130	PIPE PLUG (1/8 NPTF)	1
71	200415	RUBBER SEAL	1
	†17723	RUBBER SEAL	1
72	10245	LOCKWASHER (1/4 Bolt; Air & Electric Versions)	2
73	10009	CAP SCREW (1/4-20 UNC X 3/4 Lg.; Torque to 60/80 In. Lbs.; Air & Electric Versions)	2
74	11351	WASHER (Electric Versions)	2
75	17782	SNAP BUTTON PLUG (1/2" Dia Hole)	1
76	11141	PAN SCREW (6-20 X 0.38)	4
77	42576WH2	CONTROL BOX COVER (For *PE172, *PE172A, *PE172AM, *PE172M, *PE174 and *PE174M)	1
	42576BK2	CONTROL BOX COVER (For PE172AM-50-220, *PE172M-50-220 and PE174M-50-220)	1
PARTS INCLUDED BUT NOT SHOWN			
	*200188	WARNING DECAL (Elect. Versions)	1
	†250328	DECAL (EPR Seals)	1
	11278	TUBE ELBOW	1
	†15061	MALE CONNECTOR	1
	251229	OIL LINE	1
	351060	GASKET (Between Motor and Cover Plate)	1
	†15052	90° ELBOW FITTING	1
Part numbers marked with an asterisk (*) are contained in Repair Kit NO. 300430 Part numbers marked with a dagger (†) are contained in EPR Seal Kit NO. 300648			

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!**

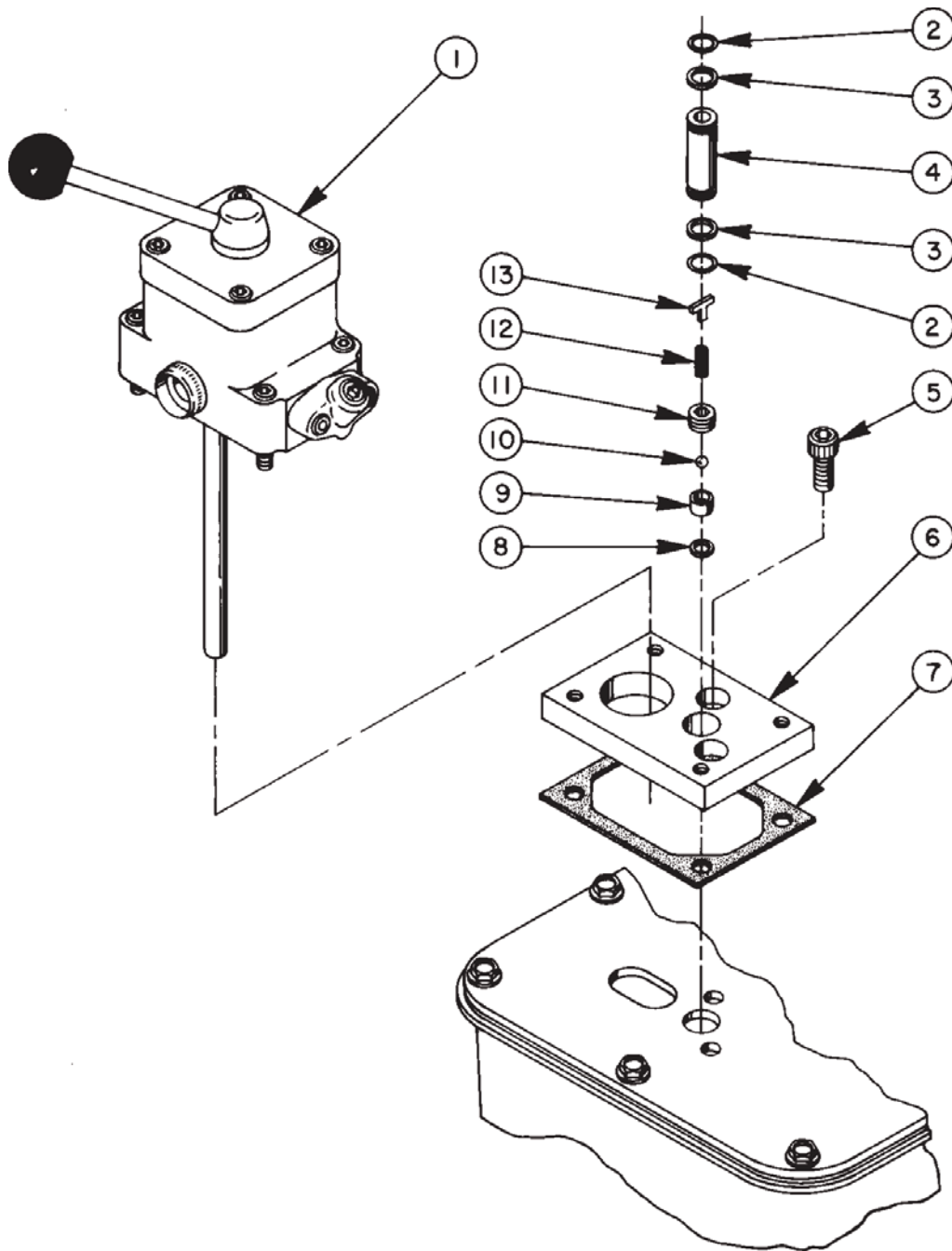
Additional questions can be directed to our Technical Services Department.

AIR MOTOR VERSION



ITEM	PART NO.	DESCRIPTION	QTY.
1	11573	CAP SCREW (5/16-18 UNC X 1/2 Lg.)	2
2	10174	MACHINE SCREW (1/4-20 UNC X 1/2 Lg.)	2
3	28157	BRACKET	2
4	28158	HANDLE	1
5	*13643	AIR MOTOR (Includes muffler)	1
6	15668	SET SCREW (1/4-20 UNC X 1/2 Lg.; Turn in until flush with cover plate)	1
7	12328	STRAIGHT FITTING (For PA172 & PA174)	1
8	13645	DIRECTIONAL VALVE (For PA172 & PA174)	1
10	252579	MUFFLER	1
*Note: For air motor repair kit, order no. 252170.			

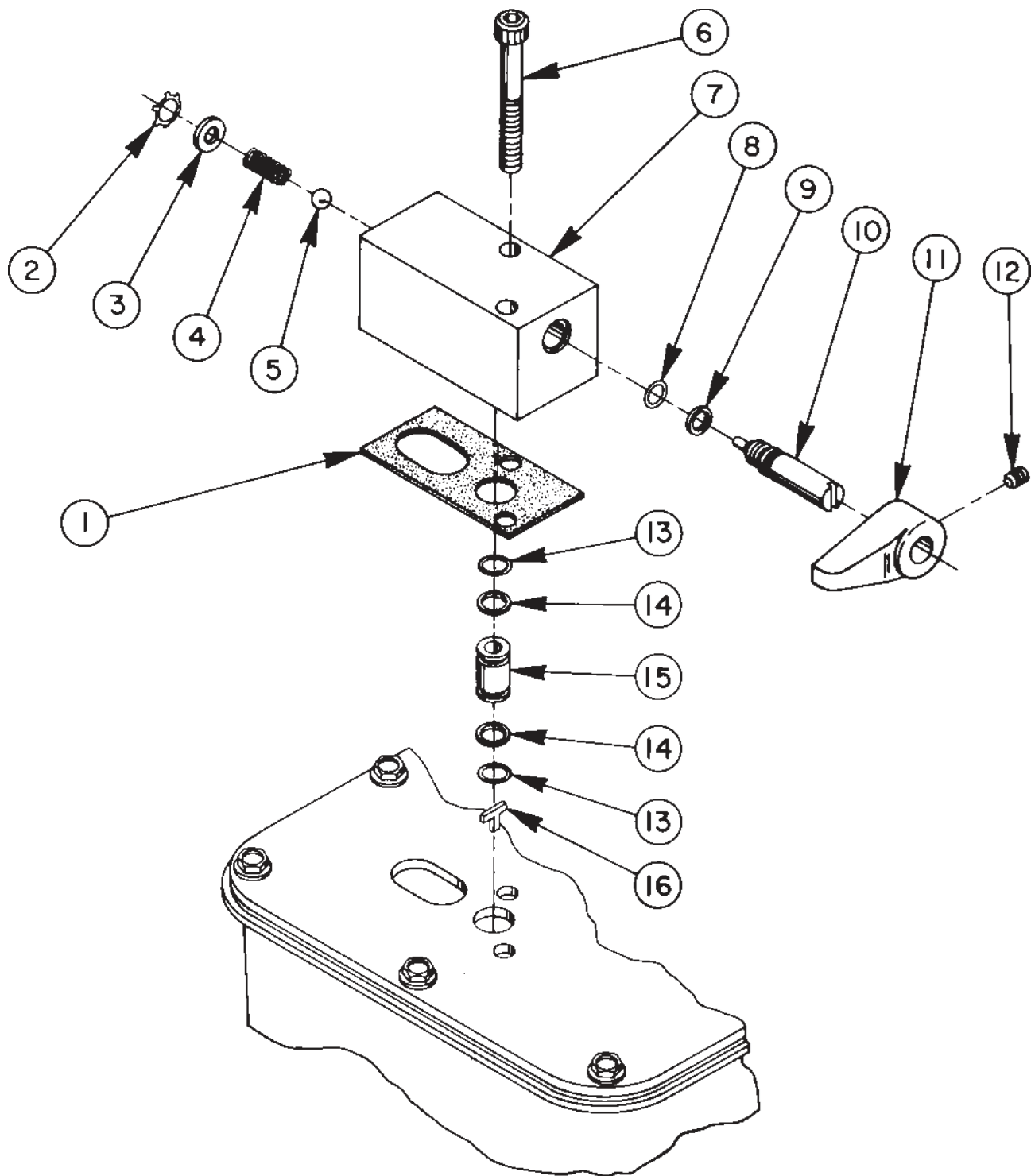
OPTIONAL VALVE ASSEMBLIES
4-Way Tandem Center Directional Valve



Parts List Continued

ITEM	PART NO.	DESCRIPTION	QTY.
1	9500	4-WAY VALVE ASS'Y (See Form NO. 100623)	1
2	•*10268	O-RING (1/2 X 3/8 X 1/16)	2
	†17716	O-RING (1/2 X 3/8 X 1/16)	2
3	•*11863	BACKUP WASHER (1/2 X 3/8 X 1/16)	2
4	209809	COUPLING	1
5	10030	CAP SCREW (5/16-18 UNC X 3/4 Lg.; Torque to 220/240 In. Lbs.)	2
6	52165	ADAPTER BLOCK MANIFOLD	1
7	*200395	GASKET	1
8	•*10442	COPPER WASHER (1/4 bolt)	1
9	•*209787	REPLACEABLE SEAT	1
10	•*12223	STEEL BALL (3/16 Dia.)	1
11	209797	HOLLOW LOCK SCREW (7/16-20 UNF-3A; Torque to 110/130 In. Lbs.)	1
12	*211797	COMPRESSION SPRING (5/32 O.D. X 5/8 Lg.)	1
13	•209795	OUTLET BALL STOP	1
Part numbers marked with an asterisk (*) are contained in Repair Kit NO. 300430. Part numbers marked with a dagger (†) are contained in EPR Seal Kit NO. 300648. Part numbers marked with a bullet (•) are contained in outlet check Repair Kit NO. 300606.			

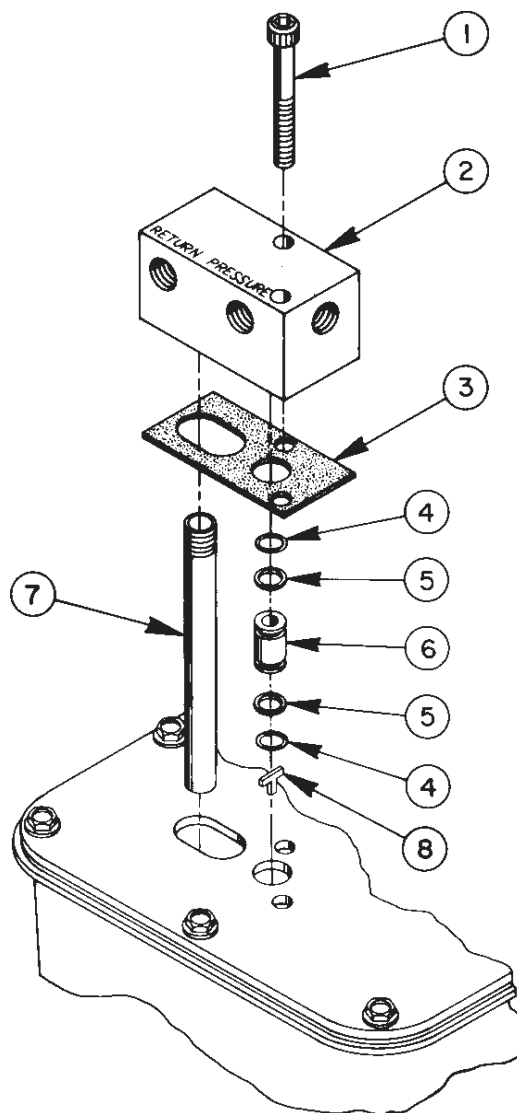
OPTIONAL VALVE ASSEMBLIES
2 Position, 2-Way Manual Valve



Parts List Continued

ITEM	PART NO.	DESCRIPTION	QTY.
1	*304829	GASKET	1
2	*11088	RETAINING RING (9/16 Shaft)	1
3	11089	WASHER (3/16 Bolt)	1
4	*11024	COMPRESSION SPRING (1/4 O.D. X 5/8 Lg.)	1
5	*10423	STEEL BALL (9/32 Dia.)	1
6	209945	CAP SCREW (5/16-18 UNC X 2-1/2 Lg.; Torque to 220/240 In. Lbs.)	2
7	52168	VALVE BODY	1
8	*10267	O-RING (7/16 X 5/16 X 1/16)	1
	†13472	O-RING (7/16 X 5/16 X 1/16)	1
9	*15085	BACKUP WASHER (7/16 X 5/16 X 3/64 THK.)	1
10	304849	RELEASE VALVE SCREW	1
11	213109	RELEASE VALVE HANDLE	1
12	10556	SET SCREW (1/4-20 UNC X 1/4 Lg.; Torque to 30/50 In. Lbs.)	1
13	*10268	O-RING (1/2 X 3/8 X 1/16)	2
	†17716	O-RING (1/2 X 3/8 X 1/16)	2
14	*11863	BACKUP WASHER (1/2 X 3/8 X 1/16)	2
15	202505	COUPLING	1
16	209795	OUTLET BALL STOP (Part of the basic pump ass'y)	1
	52170	COMPLETE VALVE ASS'Y (Consists of items 1 thru 15)	1
Part numbers marked with an asterisk (*) are contained in Repair Kit NO. 300430. Part numbers marked with a dagger (†) are contained in EPR Seal Kit NO. 300648.			

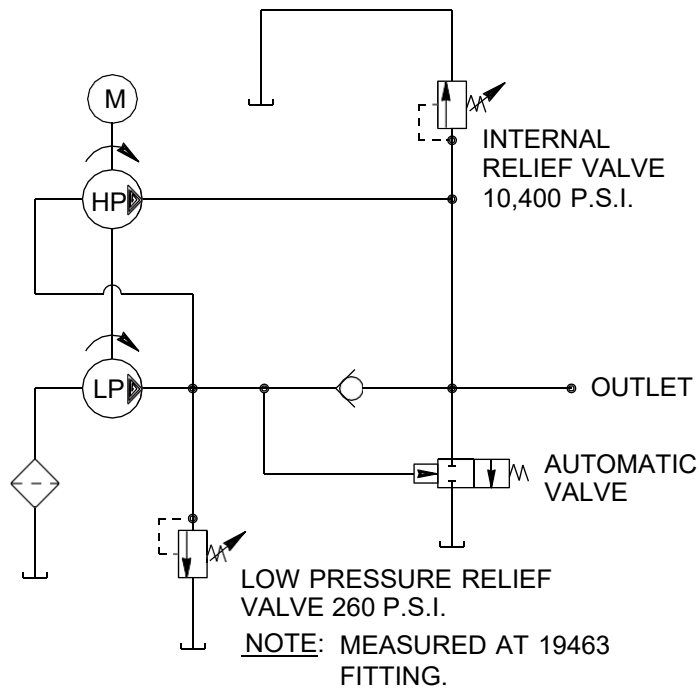
MANIFOLD ASSEMBLY



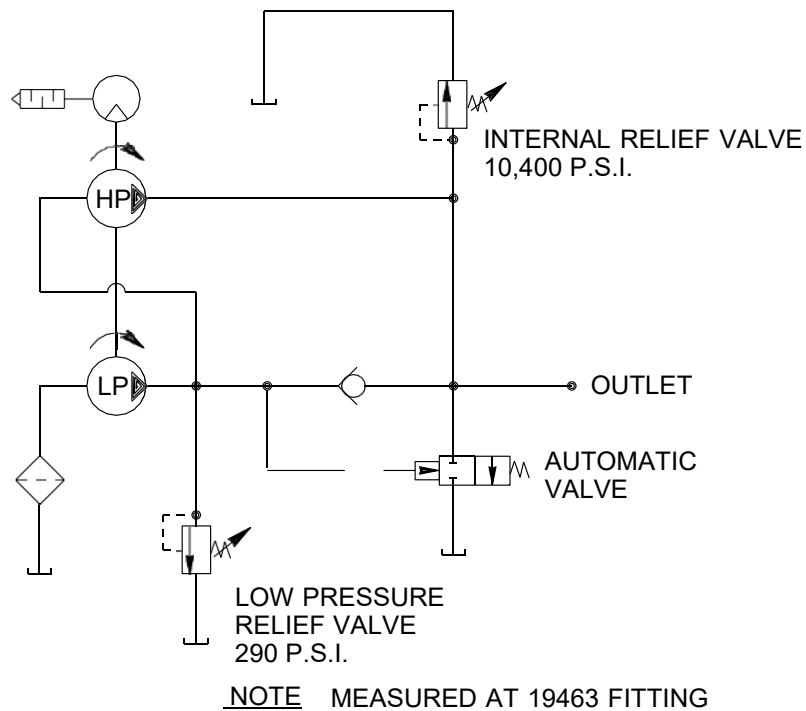
ITEM	PART NO.	DESCRIPTION	QTY.
1	209945	CAP SCREW (5/16-18 UNC X 2-1/2 Lg.; Torque to 220/240 In. Lbs.)	2
2	45554	MANIFOLD	1
3	*304829	GASKET	1
4	*10268	O-RING (1/2 X 3/8 X 1/16)	2
	†17716	O-RING (1/2 X 3/8 X 1/16)	2
5	*11863	BACKUP WASHER (1/2 X 3/8 X 1/16)	2
6	202505	COUPLING	1
7	200609	DRAIN LINE	1
8	209795	OUTLET BALL STOP (Part of the basic pump ass'y)	1

Part numbers marked with as asterisk (*) are contained in Repair Kit NO. 300430.
 Part numbers marked with a dagger (†) are contained in EPR Seal Kit NO. 300648.

HYDRAULIC SCHEMATIC FOR ELECTRIC MOTOR PUMPS



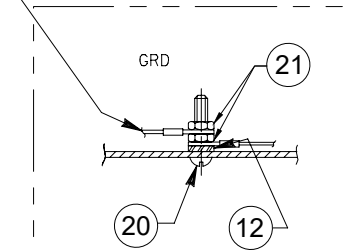
HYDRAULIC SCHEMATIC FOR AIR MOTOR PUMPS



Parts List Continued

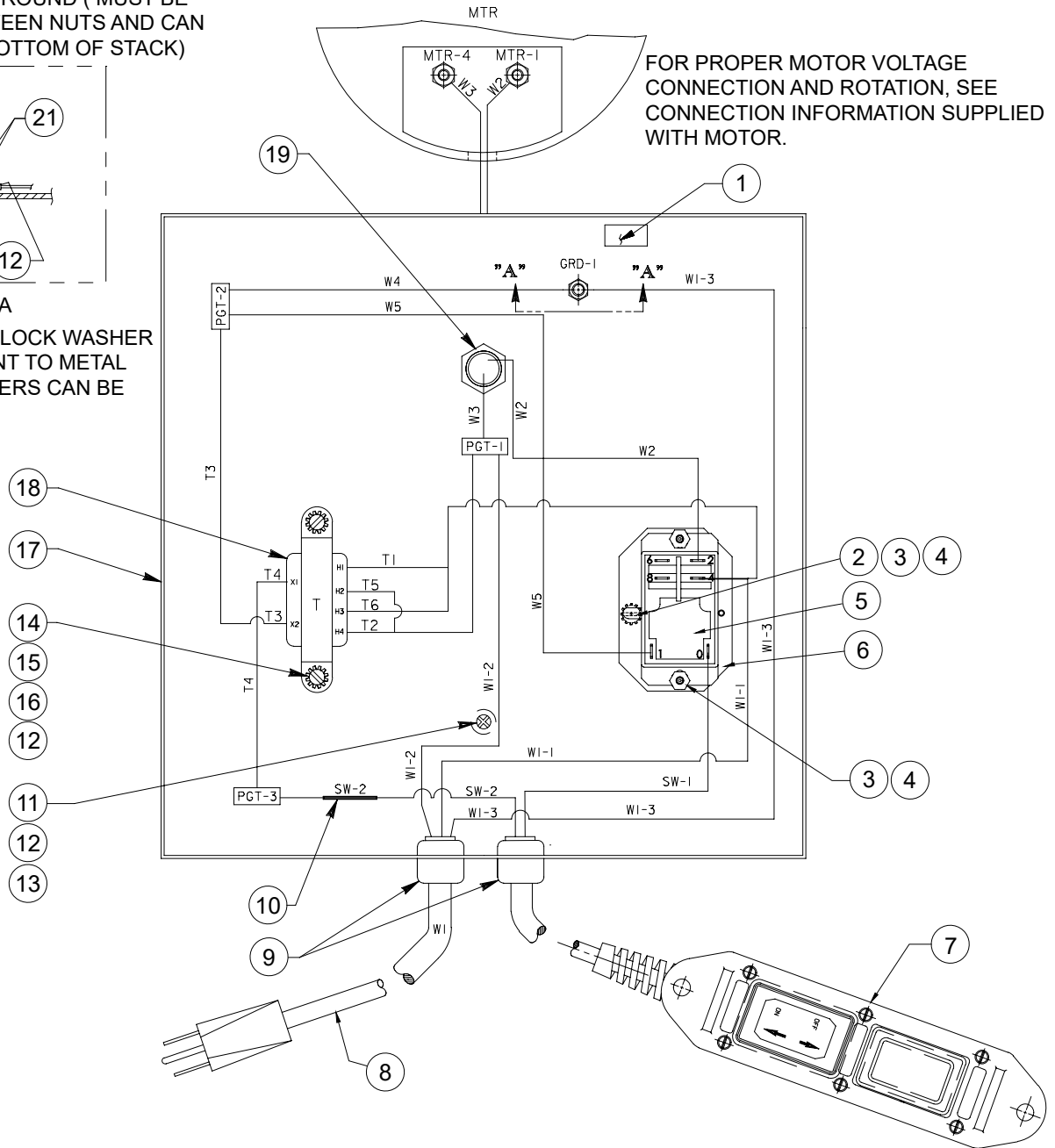
MOTOR CONTROL ASSEMBLY 52185WH2-110 (FOR *PE172, *PE172A, *PE172AM, *PE172M, *PE174 and *PE174M)

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



VIEW A-A

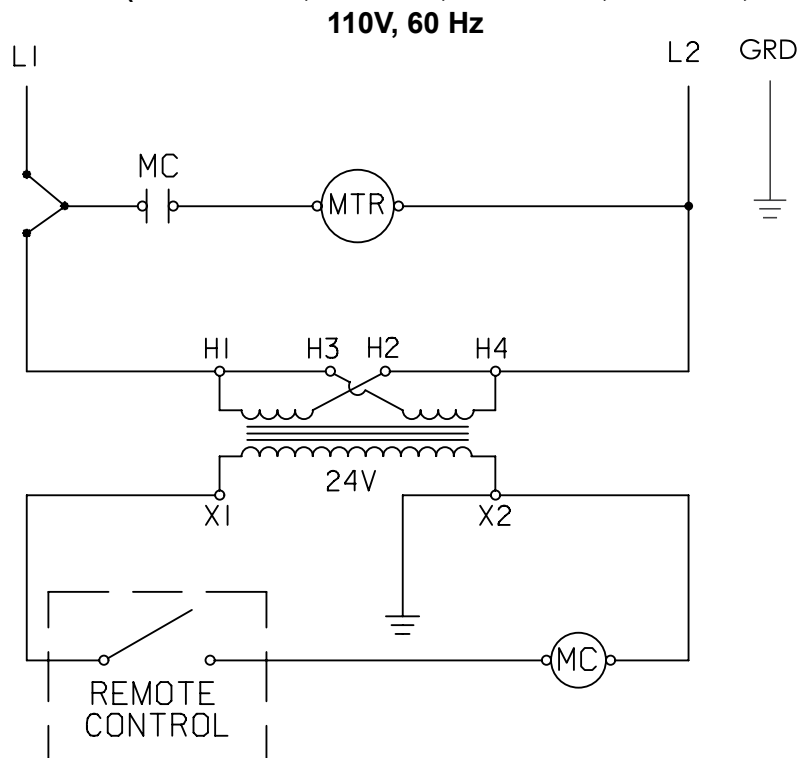
NOTE: SERRATED LOCK WASHER MUST BE ADJACENT TO METAL BOX. MORE WASHERS CAN BE USED IF DESIRED.



Parts List Continued

ITEM	PART NO.	DESCRIPTION	QTY.
1	205189	DECAL, LABEL GROUND	1
2	10159	SCREW, RND (6-32 X 0.31)	1
3	15906	WASHER, TOOTH EXT (0.310 x 0.150)	4
4	10195	NUT #6-32 HEX	4
5	2007913	RELAY, DPST 24 VAC	1
6	3000641	BRACKET, RELAY MOUNTING	1
7	25017	REMOTE PUMP HAND SWITCH ASSY (11' 18/3)	1
8	2007912	CORD SET - (115V 16/3 SJTO)	1
9	15993	BUSHING, STR REL (.325/.360 OD .625 hole)	2
10	16782	TUBING, HEAT SHRINK RED (1/8")	0.16 FT
11	252253	SCREW, PAN (8-32 X 0.38)	1
12	11108	WASHER, TOOTH EXT (0.400 x0.200)	4
13	12355	WASHER, PLAIN (0.19 x 0.44 x 0.051 STEEL)	1
14	10962	SCREW, FLAT (8-32 X 0.50)	2
15	10196	NUT, HEX (8-32)	2
16	11388	WASHER, TOOTH EXT (0.370 x0.170)	2
17	42575WH2	BOX, ELECTRICAL CONTROL	1
18	305665	TRANSFORMER, (120V/240V TO 24V, 20VA)	1
19	11202	NIPPLE, CONDUIT (1/2-14 NPSM)	1
20	10167	SCREW, RND (10-24 X 0.75)	1
21	10197	NUT, HEX (10-24)	2

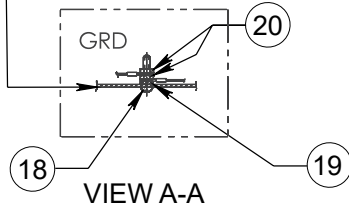
ELECTRICAL SCHEMATIC (FOR *PE172, *PE172A, *PE172AM, *PE172M, *PE174 and *PE174M)



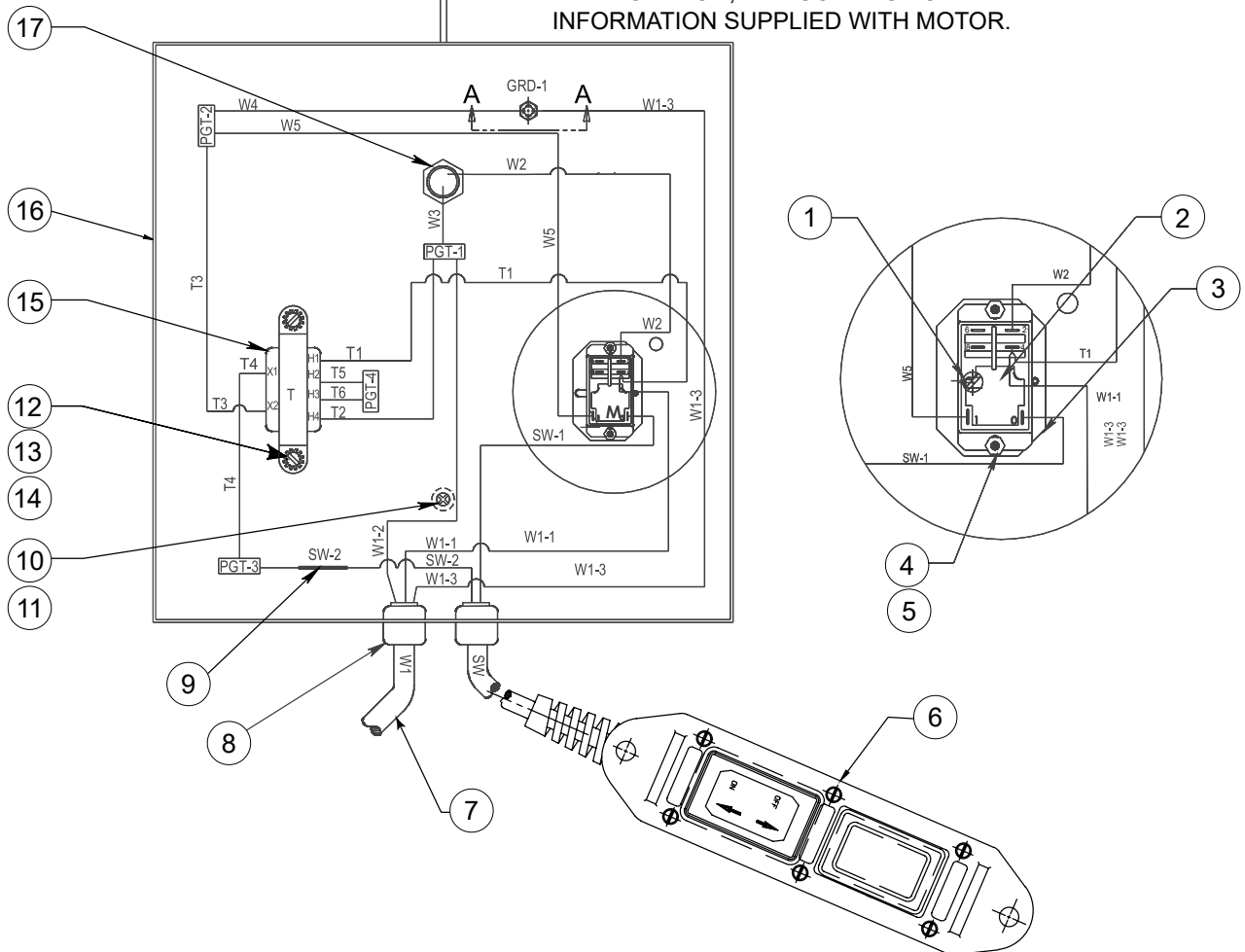
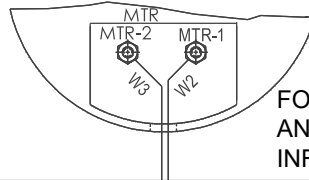
Parts List Continued

MOTOR CONTROL ASSEMBLY 52185BK2 (FOR PE172AM-50-220, *PE172M-50-220 and PE174M-50-220)

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



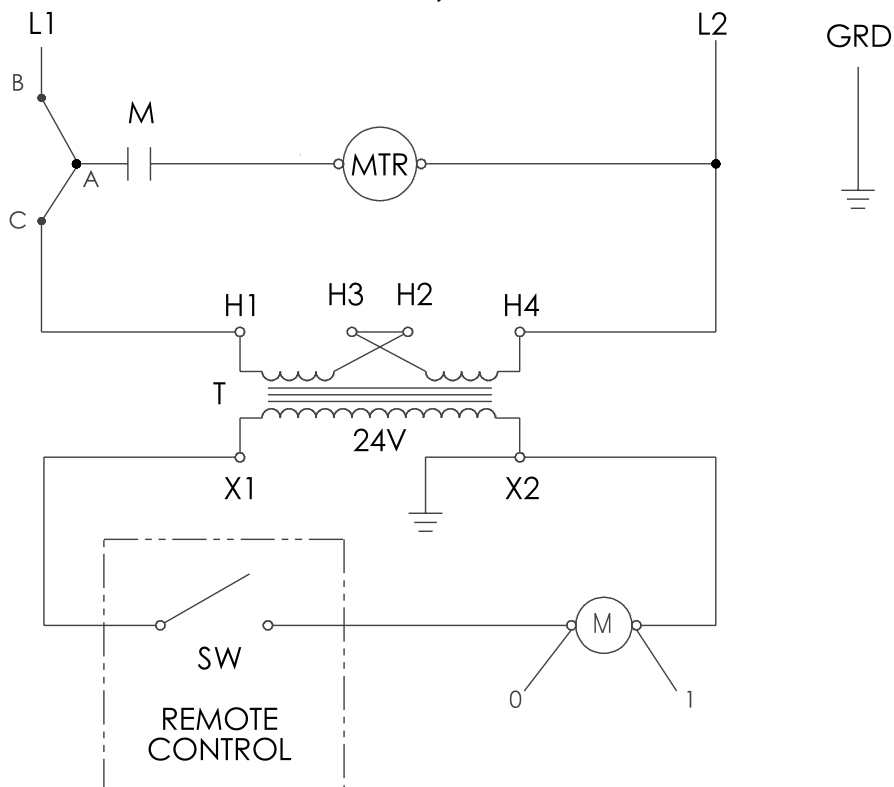
NOTE: SERRATED LOCK WASHER
MUST BE ADJACENT TO METAL
BOX. MORE WASHERS CAN BE
USED IF DESIRED.



Parts List Continued

ITEM	PART NO.	DESCRIPTION	QTY.
1	10159	SCREW, RND (6-32 X 0.31)	1
2	2007913	RELAY, DPST 24 VAC	1
3	3000641	BRACKET, RELAY MOUNTING	1
4	15906	WASHER, TOOTH EXT (0.310 x 0.150)	2
5	10195	NUT #6-32 HEX	2
6	25017	REMOTE PUMP HAND SWITCH ASSY (11' 18/3)	1
7	12293	CABLE, 16/3 SJTO	7.25 FT
8	15993	BUSHING, STR REL (.325/.360 OD .625 hole)	2
9	16782	TUBING, HEAT SHRINK RED (1/8")	0.16 FT
10	252253	SCREW, PAN (8-32 X 0.38)	1
11	12355	WASHER, PLAIN (0.19 x 0.44 x 0.051 STEEL)	2
12	10962	SCREW, FLAT (8-32 X 0.50)	2
13	10196	NUT, HEX (8-32)	2
14	11388	WASHER, TOOTH EXT (0.370 x 0.170)	2
15	305665	TRANSFORMER, (120V/240V TO 24V, 20VA)	1
16	42575BK2	BOX, ELECTRICAL CONTROL	1
17	11202	NIPPLE, CONDUIT (1/2-14 NPSM)	1
18	10167	SCREW, RND (10-24 X 0.75)	1
19	11108	WASHER, TOOTH EXT (0.400 x 0.200)	1
20	10197	NUT, HEX (10-24)	2

ELECTRICAL SCHEMATIC (FOR PE172AM-50-220, *PE172M-50-220 and PE174M-50-220) **220V, 50 Hz**



ELECTRICAL SCHEMATIC FOR PUMPS WITH REMOTE CONTROLS

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

North American and International Color Codes

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

