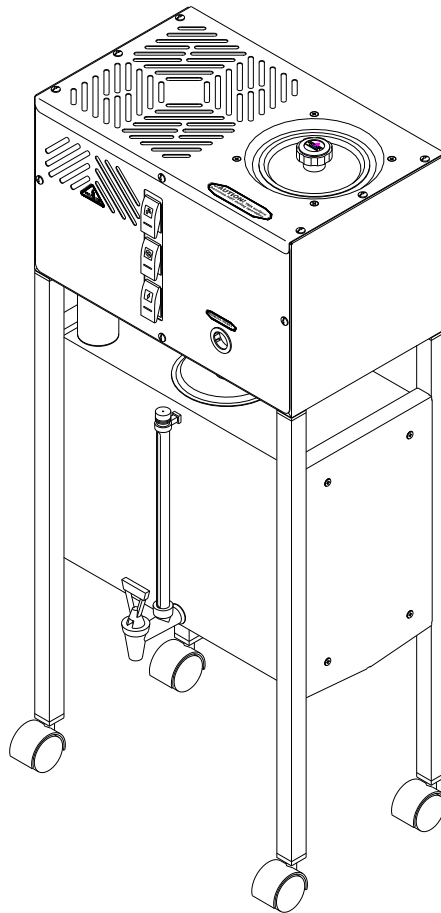




REPLACEMENT PARTS MANUAL

FOR MODEL: PWS 8-8(120VAC), PWS 8-8(240VAC), AED-1(120VAC), AED-1(240VAC), APK-1(120VAC) & APK-1(240VAC)

PART #	500003	500014	500006	500015	500007	500016
SERIES	0004	0004	0001	0001	0001	0001



PRECISION WATER SYSTEMS WATER DISTILLER

MANUFACTURED BY:
PRECISION DESIGN & MANUFACTURING INC.
10331 - 105th STREET
WESTLOCK, ALBERTA, CANADA, T7P 2H7
e-mail: info@precisioncanada.com
PHONE (780) 349-4933
FAX (780) 349-4957
01/03/18

TABLE of CONTENTS

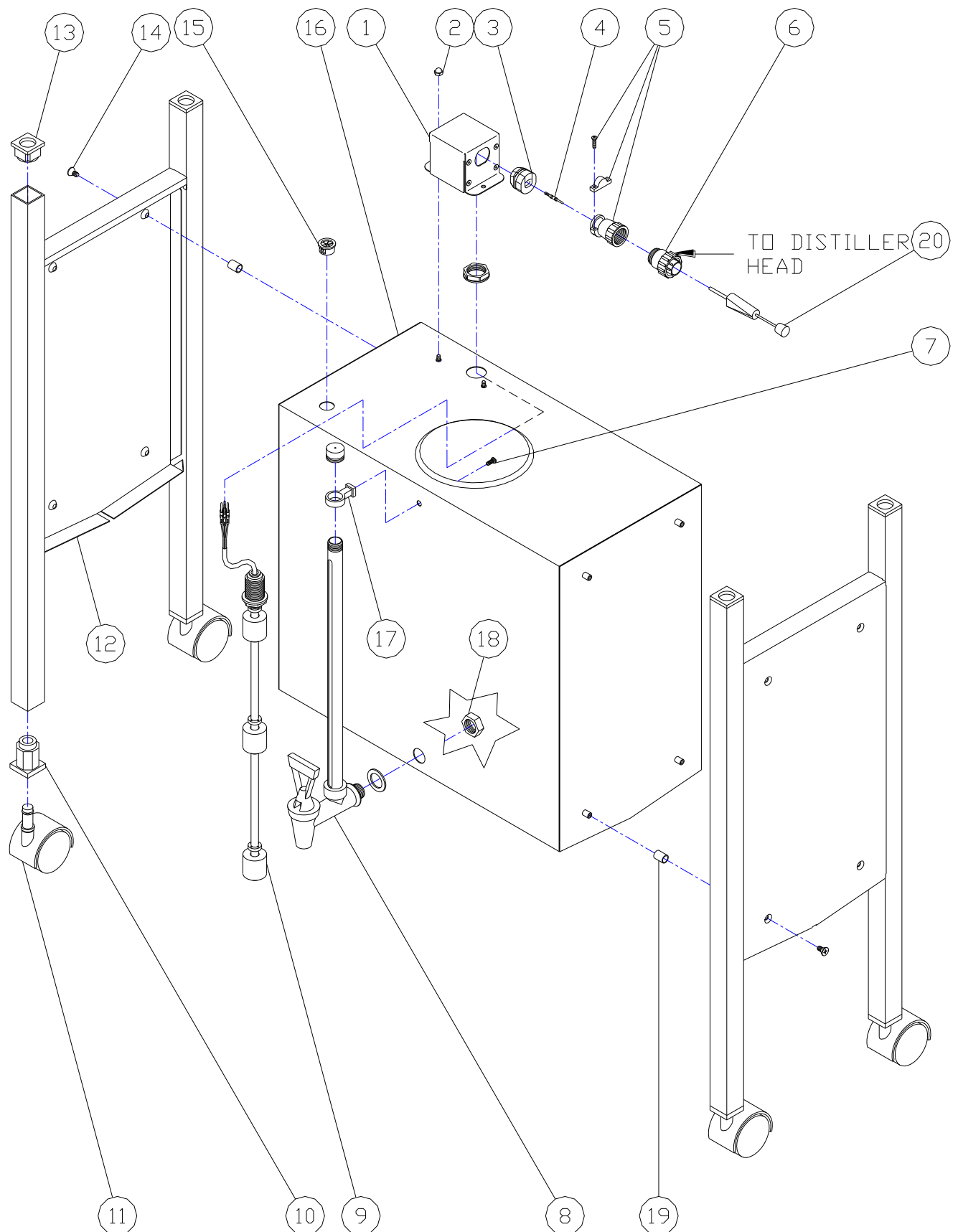
	<u>Page</u>
1. 094093 Holding Tank Assembly, 8-8 Automatic	4 & 5
2. 094110 Boiler Assembly, 8GPD Automatic	6 & 7
3. 094075 Distiller Body Assembly, 8GPD Automatic	8 & 9
4. 094070 8GPD Solenoid Valve Assembly	10 & 11
5. 094076 Distiller Head Assembly, 8GPD Automatic	12 & 13
6. 094123 Boiling Tank & Holding Tank Lids Assemblies	14 & 15
7. 094071 Automatic Electric Drain Assembly, AED-1	16 & 17
8. 094094 Automatic Pump Assembly, APK-1	18 & 19
8. 094109 Electrical Terminals	20 & 21
10. 500247 Wiring Schematic	22 & 23

094093, Exploded Parts List

Holding Tank Assembly, 8-8 Automatic

Item #	Part #	Description	Qty
1	500133	Cover, Holding Tank Wires	1
2	028001	Nut, Acorn, #6-32 Plated	2
3	054002	Strain Relief. 7K-2	1
4	060016	Male Pin	4
5	060045	Strain Relief, 7 pin, Circular	1
6	060043	Plug, 7 pin, Circular	1
7	012013	Screw, Mach, #10-24 x 3/8" SS	1
8	080122	Valve, HT, 13" (includes nut, washer & support)	1
9	500255	HT 16" Level Sensor Assembly	1
10	054014	Socket, 1" Square, tem Mt, Castor	4
11	054013	Castor, 2" Twin Wheel, Stem Mount	4
12	500159	Leg End WA, 8-8	2
13	500279	Glide, Leg, 1" Square, Punched	4
14	012008	Screw, Mach, #10-24x3/8", Oval Hd	8
15	054005	Bushing, Wire, 5/8"	1
16	500197	Holding Tank WA, 8 Gallon	1
17	080130	Support, SG, 5/8, Black	1
18	080132	Nut, Jam, 3/8, Black	1
19	500274	Tube, 3/8" X 0.0496"	8
20	080135	Circular Pin Extraction Tool	1

094093, Exploded Parts List Holding Tank Assembly, 8-8 Automatic

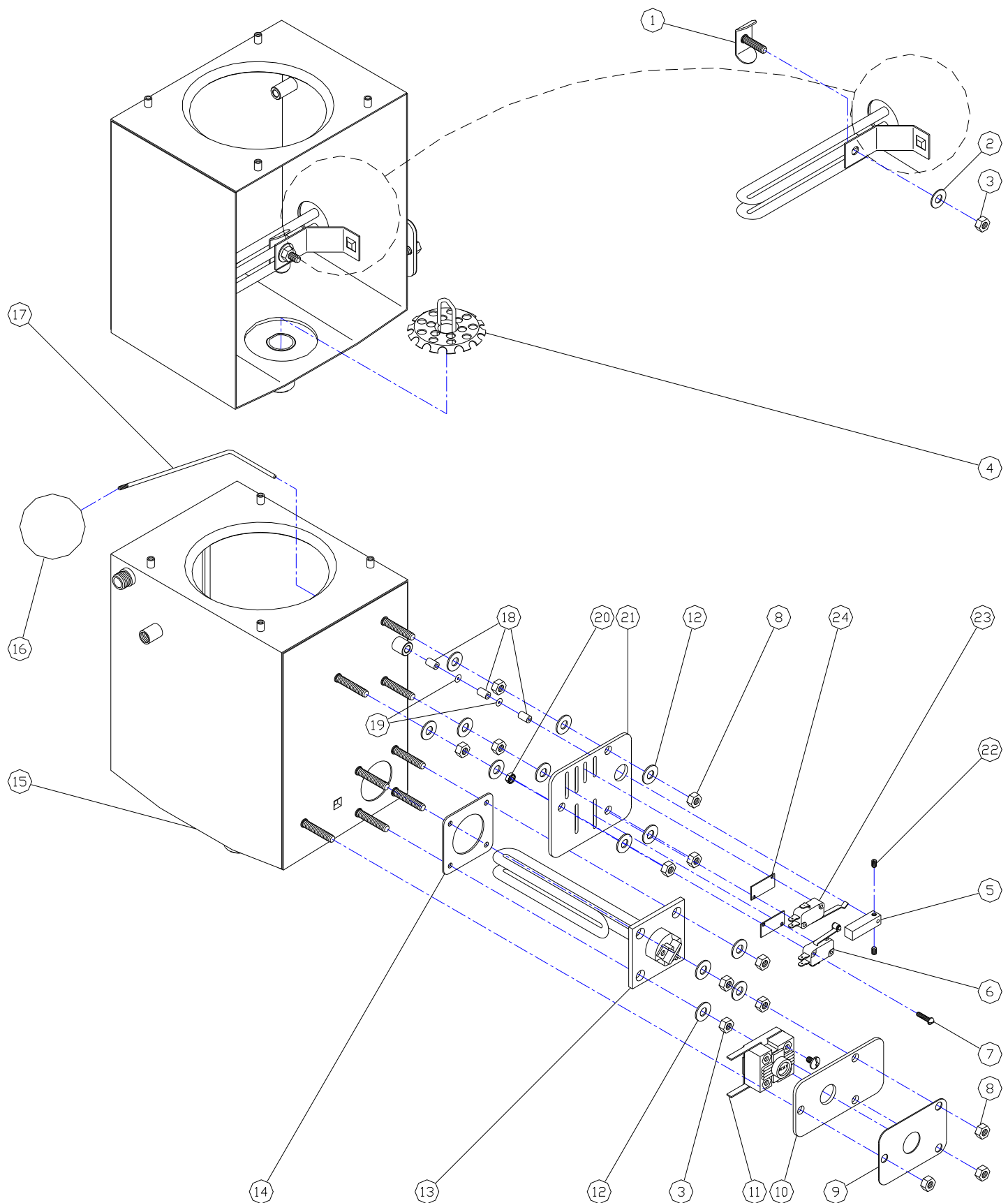


094110, Exploded Parts List

Boiling Tank Assembly, 8GPD Automatic

Item #	Part #	Description	Qty
1	500182	Clip, Heater, Studded	1
2	018009	Washer, 5/16" x 1-1/4" x 18ga SS	1
3	025000	Nut, Hex, 1/4" SS	5
4	500208	Drain Strainer WA	1
5	500278	Bar Actuator, Boiler Float	1
6	060058	Microswitch, Short Roller Arm	1
7	012003	Screw, Machine, Plated, #4-40 X 3/4"	4
8	025002	Nut, Hex, 1/4" Plated.	
9			
9	500153	Cover, Reset, SS	1
10	400010	Reset Plate, Lexan	1
11	060000	Switch, Thermo-reset	1
12	018004	Washer, 5/16" X 11/16" X 20ga SS	11
13	060001	Heating Element, 120V, 1100W	1
	060002	Heating Element, 240V, 1100W	1
14	500100	Gasket, Heater	1
15	500269	Boiler WA, 8GPD Auto	1
16	080162	Float Ball, SS, 2-1/4" Round, #6-32	1
17	500264	Rod, Boiler Float	1
18	080127	Bushing, Nylon	3
19	080128	O-Ring, 1/16" x 1/8" x 1/4"	2
20	026003	Nut, Kep, #4-40	4
21	500266	Plate, Microswitch	1
22	016014	Set Screw, Black, #6-32 X 0.25", Cup Pt.	2
23	060059	Micro Switch, Long Arm, Formed	1
24	500289	Shim, Micro Switch	2

094110, Exploded Parts List Boiling Tank Assembly, 8GPD Automatic



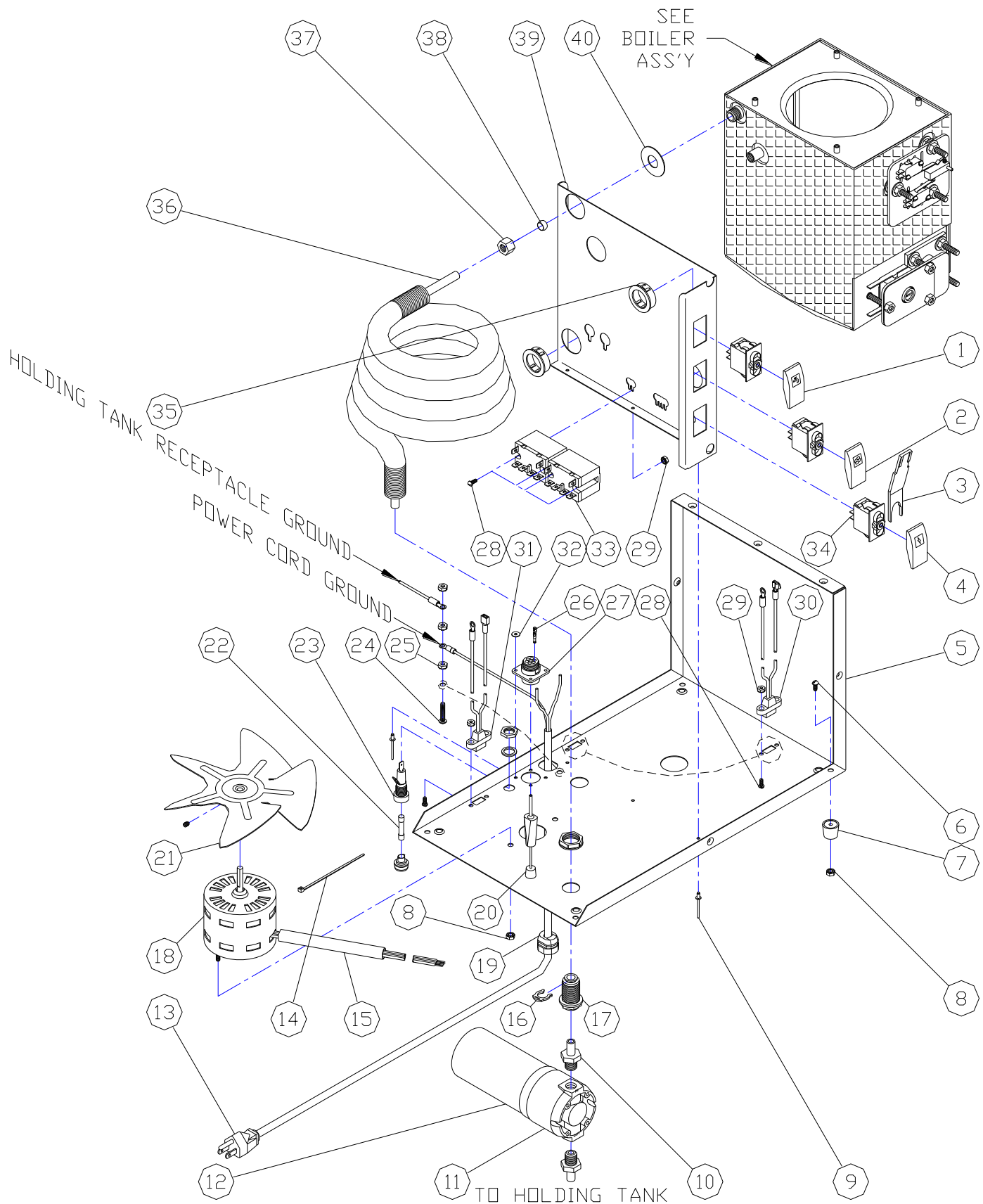
094075, Exploded Parts List

Distiller Body Assembly, PWS, 8GPD Automatic

Item #	Part #	Description	Qty
1	060031	Actuator, Grey, White-Water	1
2	060030	Actuator, Grey, Amber-Fan	1
3	080134	Tool, Actuator Removal	1
4	060029	Actuator, Grey, Red-Power	1
5	500126	Body, 8GPD Auto	1
6	012012	Screw, Machine, Plated, #8-32 X 5/8"	4
7	054010	Leg, 3/4" OD X 5/8" High	4
8	026001	Nut, Kep, Plated, #8-32	6
9	016004	Rivet, Aluminum, 1/8" x 5/16"	6
10	034018	Coupler, 1/4" MPT x 3/8" Stem	2
11	080075	Filter Head, 1/4"FPT, Screw-on	1
12	080071	Filter, Cartridge, Charcoal, 6"	1
13	500232	Power Cord Assembly, 16-3 NA, 8GPD Automatic	1
14	054011	Wire Tie, Plastic, 4"	1
15	080108	Sleeve, Fiberglass, 1/2"	5"
16	034021	Locking Clip, 3/8" JG	1
17	034011	Bulkhead, 3/8" JG	1
18	060049	Motor, 120/240 Dual Voltage	1
19	054002	Strain Relief, 7K-2	1
20	080135	Circular Pin Extraction Tool	1
21	080045	Fan Blade, 7"	1
22	060022	Fuse, 1 Amp, Slow Blow	1
23	060036	Fuse Holder, Chassis, 15Amp (includes nut & gasket)	1
24	012000	Screw, Machine, Plated, #10-24 x 1"	1
25	026000	Nut, Kep, Plated, #10-24	3
26	060017	Female Pin	4
27	060044	Receptacle, 7 pin Receptacle	1
28	012009	Screw, Machine, Plated, #6-32 X 1/2"	8
29	026002	Nut, Kep, Plated, #6-32	8
30	500237	Drain Receptacle Assembly, 8GPD Auto	1
31	500236	Pump Receptacle Assembly, 8GPD Auto	1
32	018001	Washer, Flat, 1/8" x 3/8" Aluminum	2
33	060018	Relay, Aromat, Black, 120V	2
	060019	Relay, Aromat, Black, 240V	2
34	060028	Switch Base, 120/240V SPST	3
35	054004	Bushing, Snap, 1-1/4"	2
36	500239	Cooling Coil Assembly, 8GPD Auto	1
37	030013	Nut, Plated, 3/8" Compression	1
38	030012	Ferrule, 3/8"	1
39	500114	Divider, 8GPD Auto	1
40	018023	Washer, Flat, 5/8" X 1-1/2", 20ga. SS	1

094075, Exploded Parts List

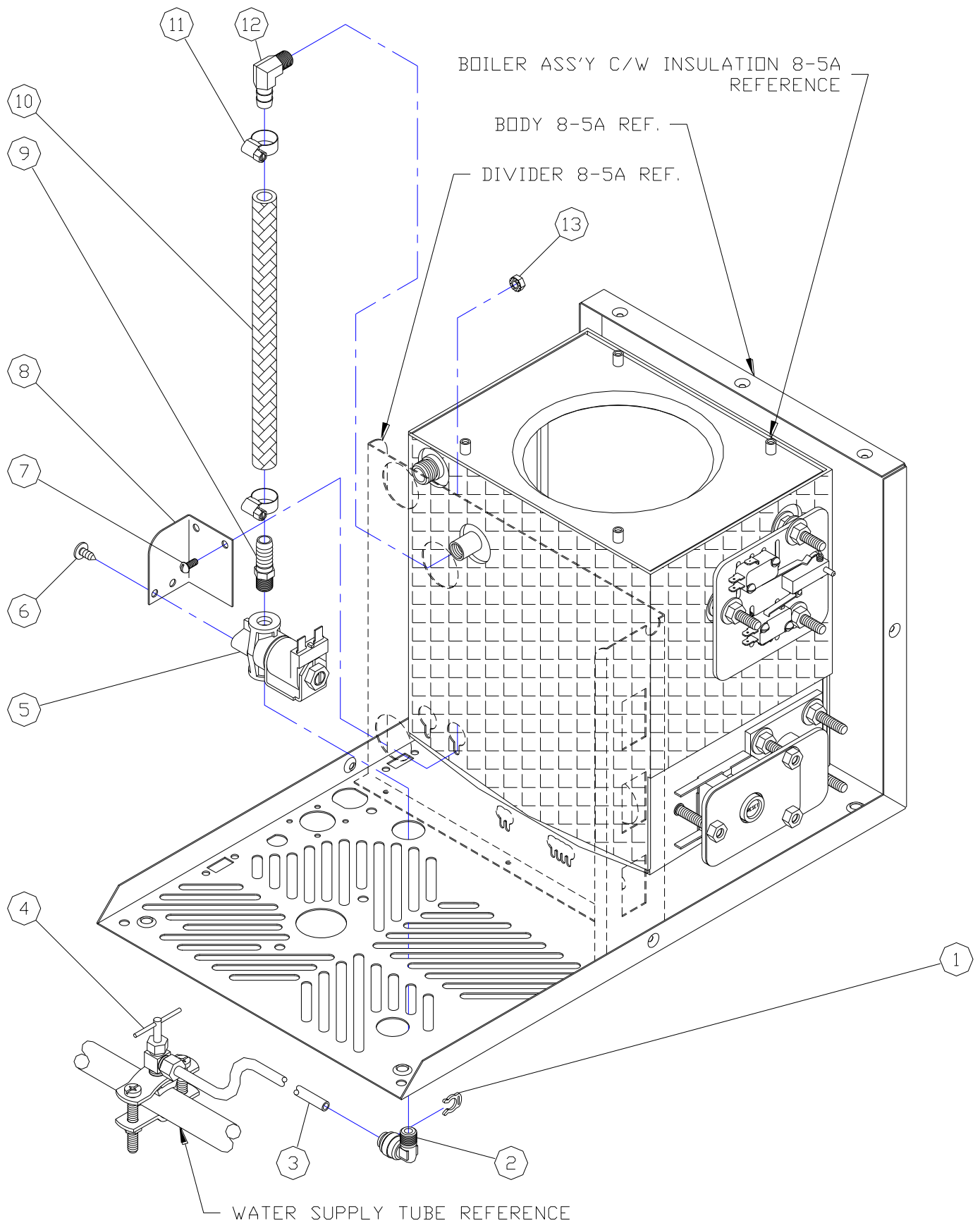
Distiller Body Assembly, PWS, 8GPD Automatic



094070, Exploded Parts List 8GPD Solenoid Valve Assembly

Item #	Part #	Description	Qty
1	034009	Locking Clip, 1/4" JG	1
2	034006	Elbow, 90, 1/8MPTx1/4" JG	1
3	052000	Tubing, 1/4" Feed-line	1
4	036005	Valve, Self Piercing Kit	1
5	060026	Solenoid Valve, 1/8FPT BE, 120V	1
	060027	Solenoid Valve, 1/8FPT BE, 240V	1
6	010000	Screw, ShtMtl #10-12x1/2", SS	2
7	012012	Screw, Mach, #8-32x5/8", Plated	2
8	500166	Bracket, Solenoid Valve	1
9	034024	Coupler, Nylon, 1/8"MPTx3/8"HB	1
10	052004	Tubing, 3/8x0.6 Braided	1
11	080056	Gear Clamp, SS, 1/4"	2
12	030003	Elbow, 90, 1/8"MPTx3/8"HB	1
13	026001	Nut, Kep, #8-32	2

094070, Exploded Parts List 8GPD Solenoid Valve Assembly

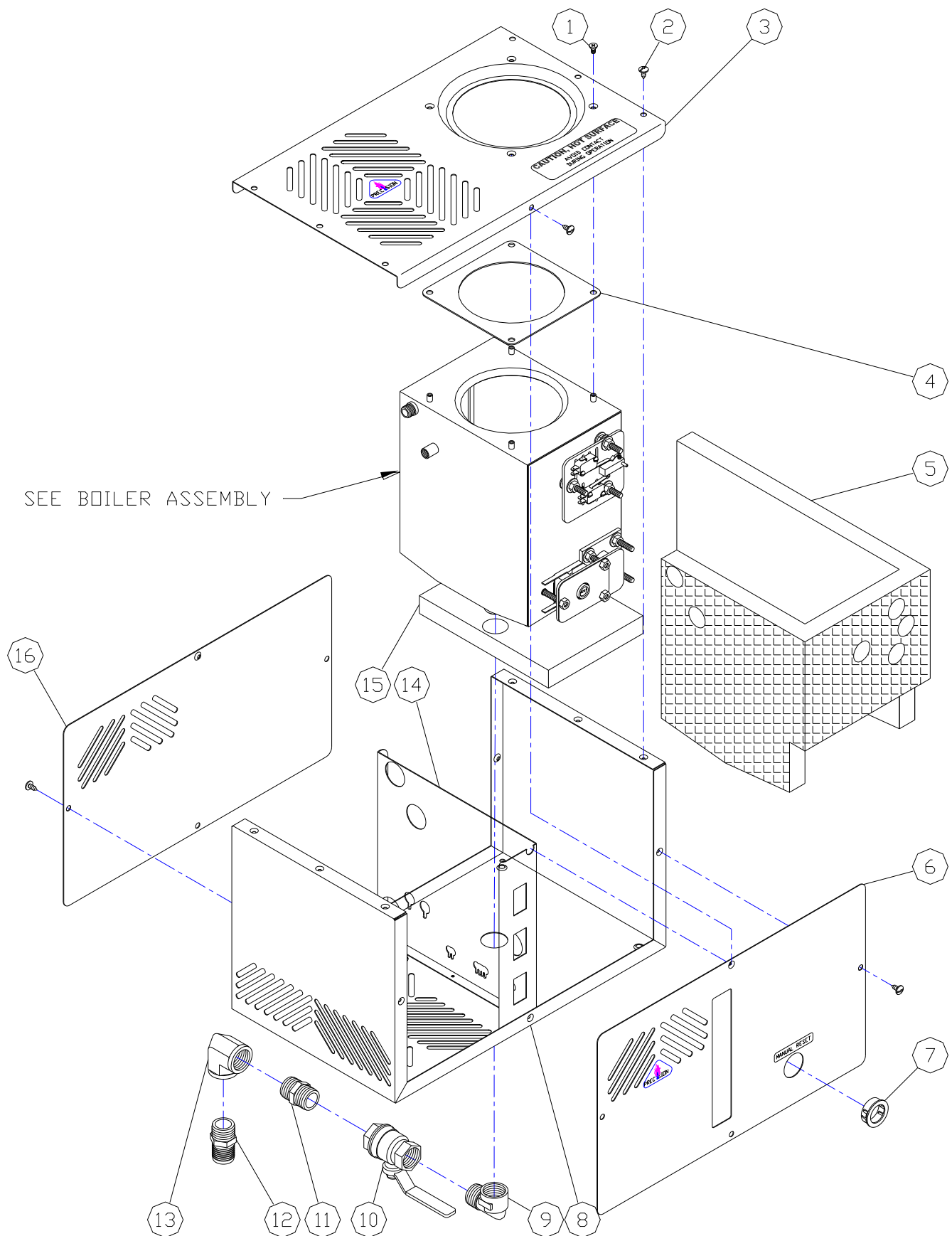


094076, Exploded Parts List

Distiller Head Assembly, PWS, 8GPD Automatic

Item #	Part #	Description	Qty
1	012008	Screw, Mach, #10-24x3/8",Oval Hd 4	4
2	010000	Screw, Sht Mtl, #10-12 x 1/2", SS	14
3	500127	Cover, Top, 8GPD, Auto	1
4	500111	Gasket, Lid	1
5	500240	Insulation, 8GPD Auto Boiler Sides	1
6	500128	Cover, Front, 8GPD Auto	1
7	054004	Bushing, Snap, 1.25"	1
8	500126	Body, 8GPD Automatic	1
9	030016	Elbow, 90, 3/4 MPT x 3/4 FPT	1
10	030009	Valve, Ball, 3/4 FPT BE, FF	1
11	030017	Nipple, Close, 3/4 MPT	1
12	030015	Coupler, 3/4 MPT x 1"HB	1
13	030018	Elbow, 90, 3/4FPT Both Ends	1
14	500114	Divider, 8GPD Auto	1
15	500241	Insulation, 8GPD Auto Boiler Bot.	1
16	500129	Cover, Rear, 8GPD Auto	1

094076, Exploded Parts List **Distiller Head Assembly, PWS, 8GPD Automatic**

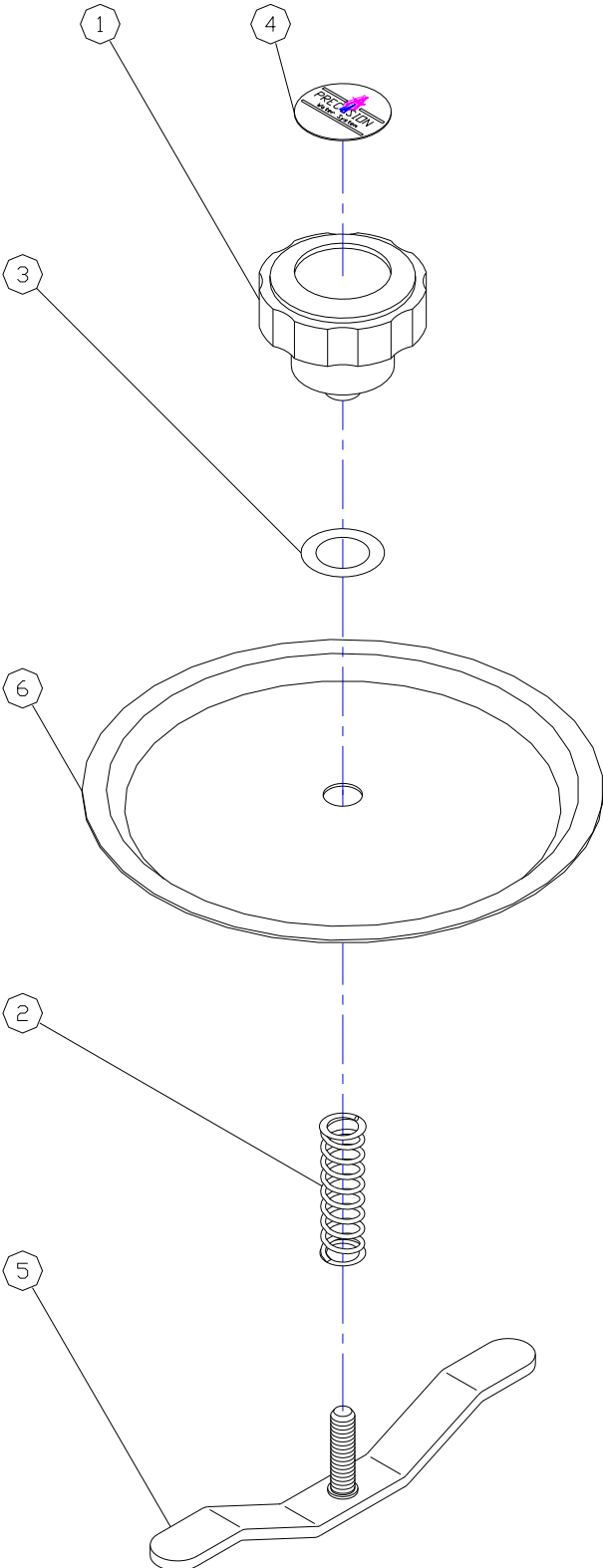


094074, Exploded Parts List

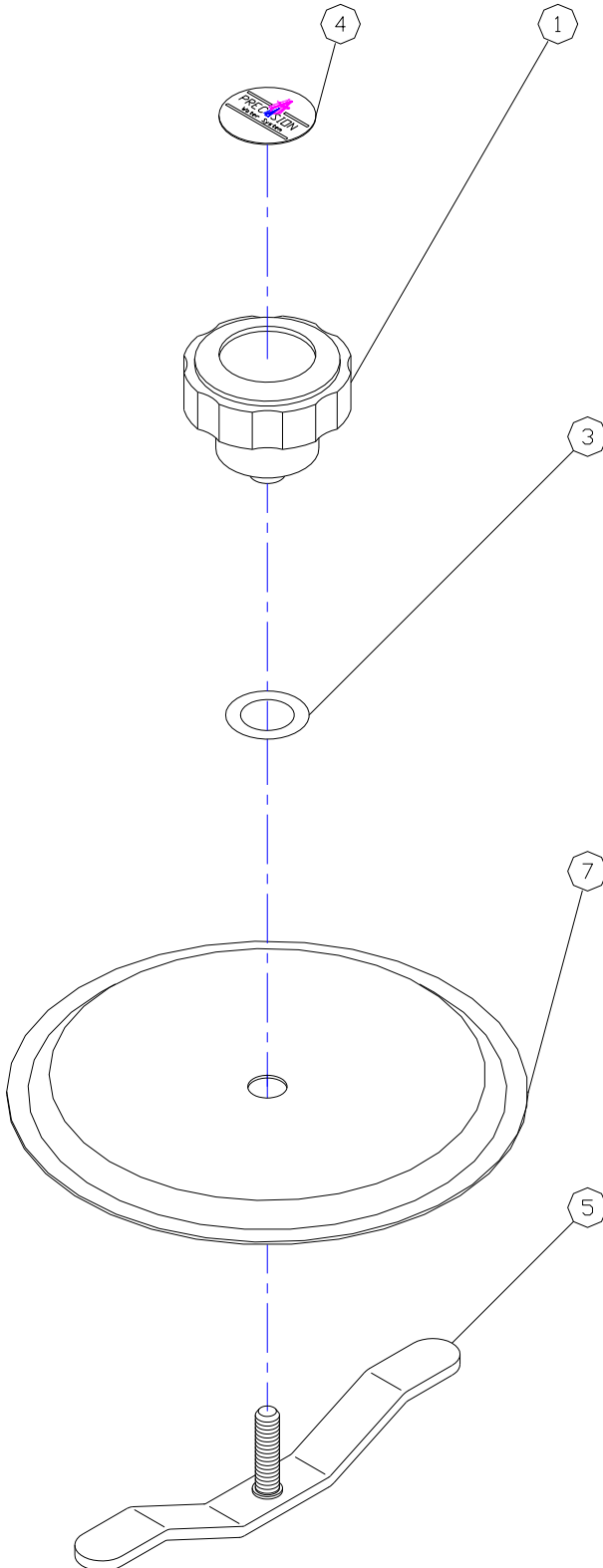
Boiling Tank & Holding Tank Lids Assemblies

Item #	Part #	Description	Qty
1	080053	Knob, Black Phenolic, 1/4-20	1
2	080058	Spring, BT, Lid, SS	1
3	080064	O-Ring, Lid Knob, Buna 112	1
4	080106	Inlay, Knob, PWS	1
5	500115	Tee Bar, Studded, 5.5"	1
6	500118	Lid, B/T, Disc, SS, 5/5"	1
7	500119	Lid, H/T, Disc, SS, 5.5"	1

094074, Exploded Parts List
Boiling & Holding Tank Lids Assemblies, PWS



BOILING TANK
LID ASSEMBLY
(PART # 500184)



HOLDING TANK
LID ASSEMBLY
(PART # 500248)

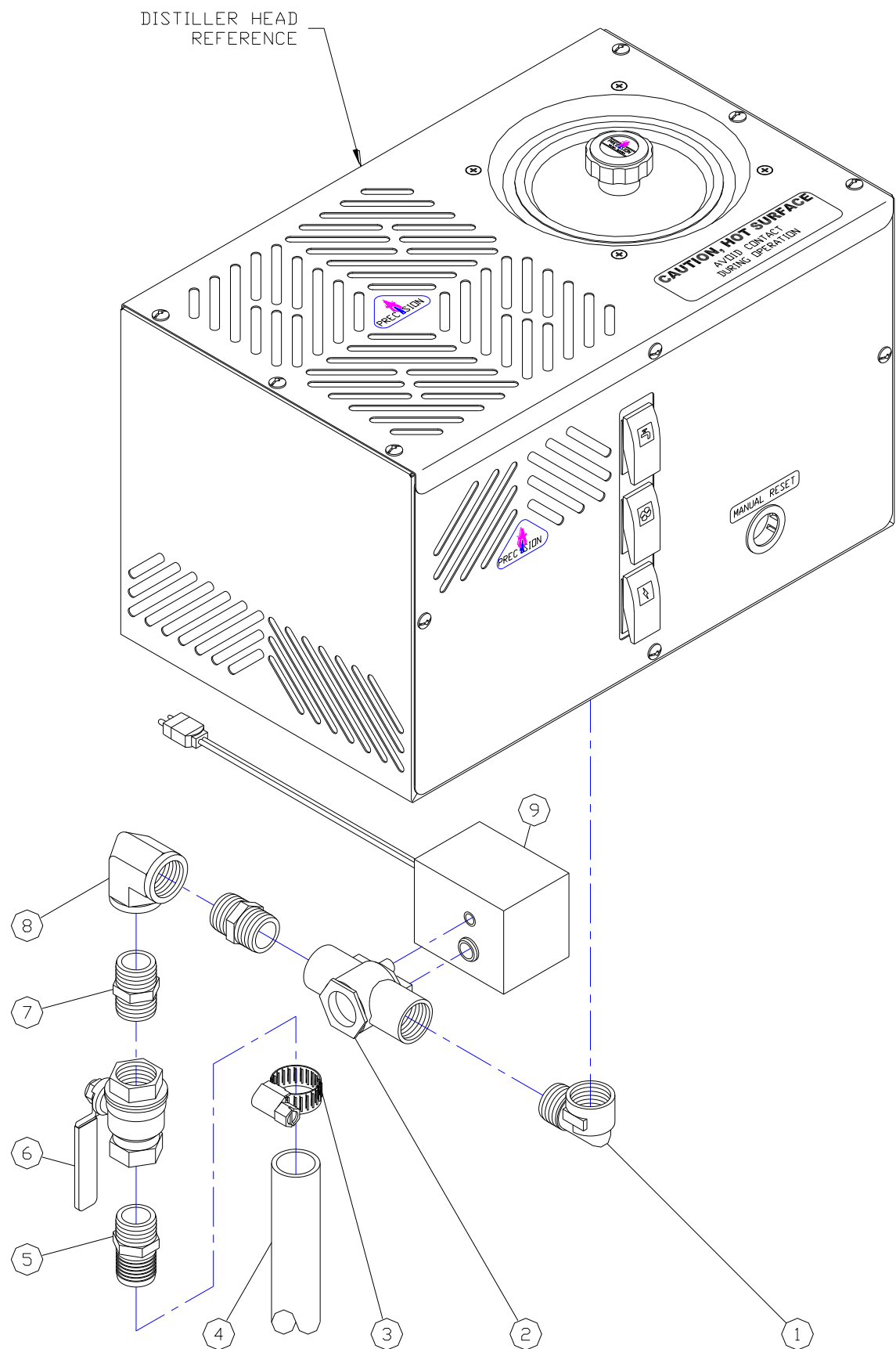
094071, Exploded Parts List

Automatic Electric Drain Assembly, AED-1

Item #	Part #	Description	Qty
1	030016	Elbow,90, 3/4 "FPT x 3/4" MPT	1
2	080077	Valve, Drain, 3/4FPT, NO	1
3	080121	Clamp, Gear, 1-1/4"	1
4	052005	Tubing, 1x1-1/4"	1
5	030015	Coupler, 3/4MPTx1"HB	1
6	030009	Valve, Ball, 3/4FPT BE, FF	1
7	030017	Nipple, Close, 3/4MPT	2
8	030018	Elbow, 90, 3/4FPT	1
9	500310	PWS AED Motor Ass'y, W/Cord, 120V	1
	500311	PWS AED Motor Ass'v, W/Cord, 240V	1

094071, Exploded Parts List

Automatic Electric Drain Assembly, AED-1



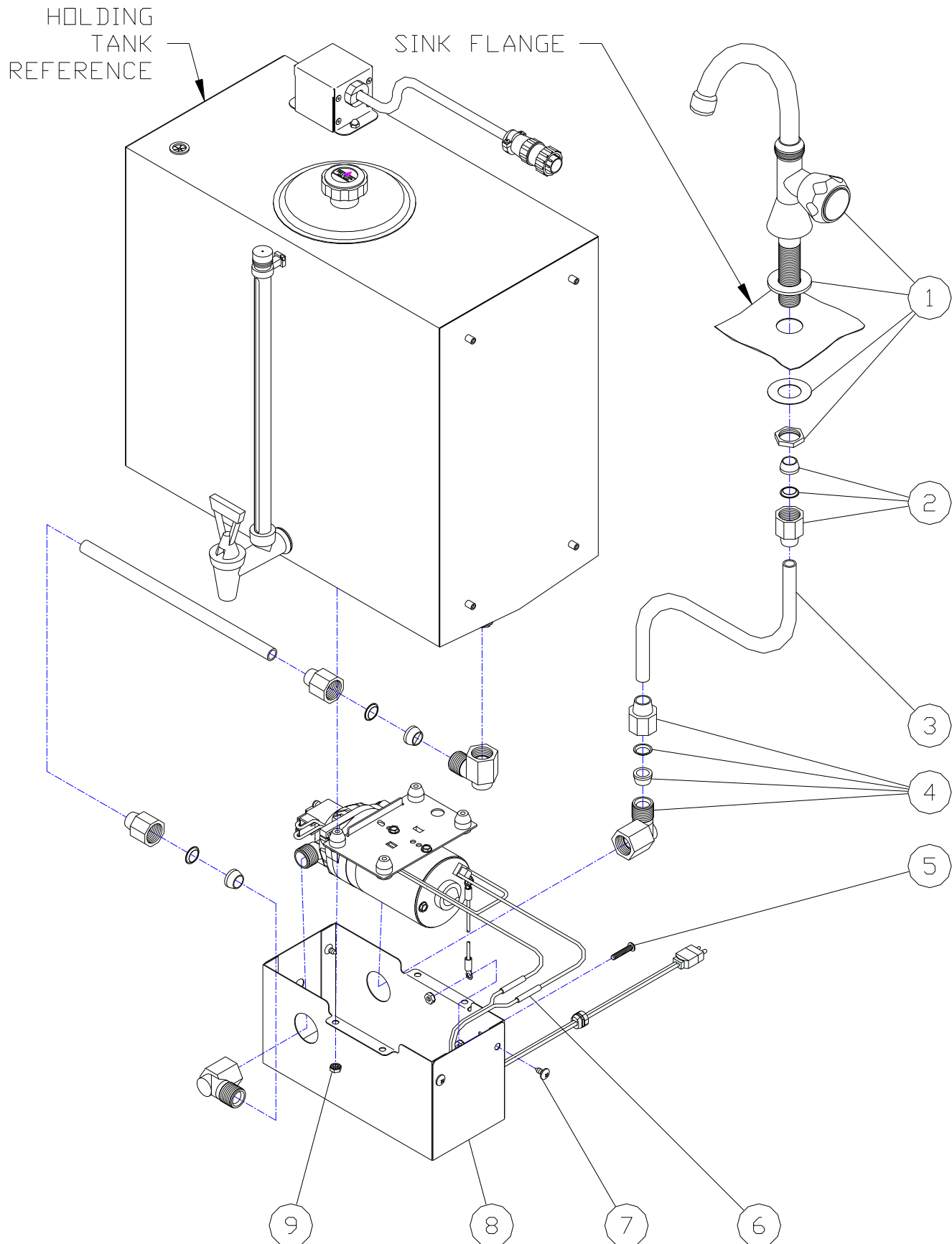
094094, Exploded Parts List

Automatic Pump Assembly, APK-1

Item #	Part #	Description	Qty
1	080052	Faucet, Chrome	1
2	034003	Nut/Cone/Ring Set, ½" OD	1
3	052001	Tubing, LDPE, 3/8" x ½"	1
4	034022	Elbow, 90, 1/2FPT x 1/2OD Tube	3
5	012000	Screw, Mach, Plated, #10-24 x1"	1
6	066006	Butt Splice, 18-22AWG, Red	2
7	010002	Screw, Shtmtl, Plated, #10-12 x ½"	4
8	500191	Pump Box	1
9	026000	Nut, Kep, #10-24	6

094094, Exploded Parts List

Automatic Pump Assembly, APK-1



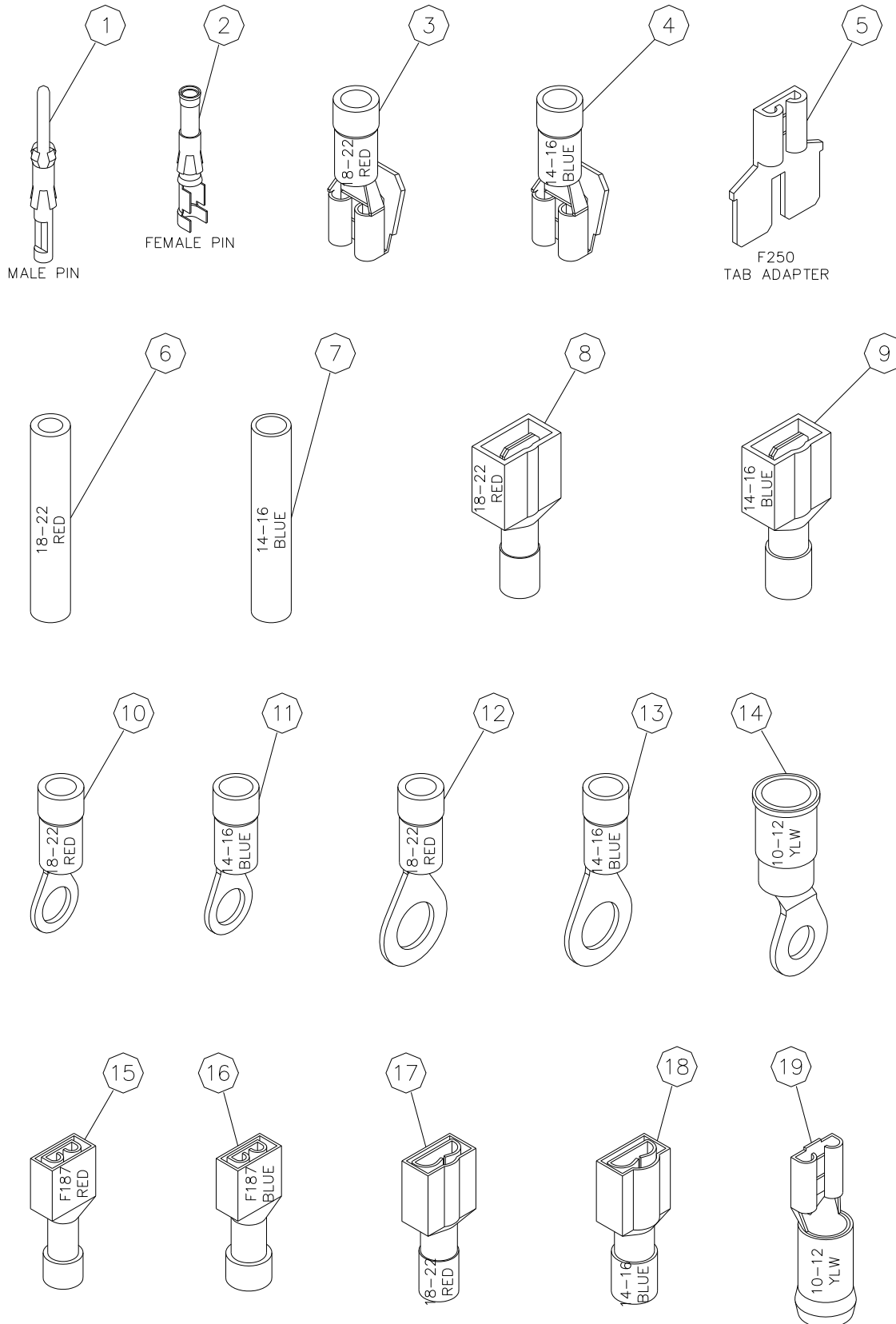
094109, Exploded Parts List

Electrical Terminals

Item #	Part #	Description
1	060016	Pin, Male, Circular
2	060017	Pin, Female, Circular
3	066014	Receptacle, Pigg, F250, #18-22 AWG, Red
4	066004	Receptacle, Pigg, F250, #14-16 AWG, Blue
5	066013	Tab Adapter, F250
6	066006	Butt Splice, #18-22 AWG, Red
7	066005	Butt Splice, #14-16 AWG, Blue
8	060012	Tab, 250, #18-22 AWG, Red
9	066011	Tab, 250, #14-16 AWG, Blue
10	066008	Ring, #10, #18-22 AWG, Red
11	066007	Ring, #10, #14-16 AWG, Blue
12	066010	Ring, 1/4", #18-22 AWG, Red
13	066009	Ring, 1/4", #14-16 AWG, Blue
14	066016	Ring, #10, #10-12 AWG, Yellow
15	066003	Receptacle, F187, #18-22 AWG, Red
16	066001	Receptacle, F187, #14-16 AWG, Blue
17	066002	Receptacle, F250, #18-22 AWG, Red
18	066000	Receptacle, F250, #14-16 AWG, Blue
19	066015	Receptacle, F250, #10-12 AWG, Yellow

094109, Exploded Parts List

Electrical Terminals



Wiring List, Precision Pure8-8 (8GPD Auto), Part # 500247

No.	Part#	Color	Ga	Length	From Conn.	ToConn.	From Location	To Location
1	500232	GRN	16	3"	#10RING#14-#16	POWER CORD	GROUND	POWER CORD
2	500232	BLK	16	14.5"	F250 #14-#16	POWER CORD	POWER SWITCH #2	POWER CORD
3	500232	WHT	16	14.5"	#10RING#14-#16	POWER CORD	RESET SWITCH #4	POWER CORD
4	500233	BLKor	18	10"	PIGG & PIGG	FAN MOTOR (ORG/BLU)	HEATER RELAY #1	FAN MOTOR
5	500233	BLKor	18	11"	F250 #18-#22 & PIGG	FAN MOTOR (YLW/WHT)	FAN SWITCH #2	FAN MOTOR
6								
7								
8								
9	095001	BLK	16	7"	#10RING#14-#16	F187 #14-#16	RESET SWITCH #1	Lower Microswitch COM
10	095000	GRN	16	20"	PIGG	F250 #14- #16	HEATER RELAY "B" (5)	SOLENOID VALVE A
11	095030	BLK	16	19"	F187 #14-#16	F250 #14- #16	Upper Microswitch COM	SOLENOID VALVE B
12	500236	BLK	18	3.5"	F250 #18-#22	PUMP RECEPTACLE	FUSE SIDE	PUMP RECEPTACLE (SMOOTH)
13	500236	BLK	18	20"	#10RING#18-#22	PUMP RECEPTACLE	RESET SWITCH #3	PUMP RECEPTACLE
14	095002	ORG	16	16"	#10RING#14-#16	FPIN	RESET SWITCH #3	HOLDING TANK RECEPTACLE #1
15	095003	BLU	16	16"	F250 #14-#16	FPIN	HEATER RELAY #3	HOLDING TANK RECEPTACLE #2
16	095004	YLW	16	7"	PIGG	FPIN	SOLENOID VALVE A	HOLDING TANK RECEPTACLE #3
17	095005	RED	16	19"	F250 #14-#16	FPIN	PUMP RELAY "B" (5)	HOLDING TANK RECEPTACLE #4
18	095006	RED	16	8"	F250 #14-#16	#10 RING #14-#16	POWER SWITCH #3	RESET SWITCH #2
19	500237	BLK	18	16"	PIGG	DRAIN RECEPTACLE	HEATER RELAY #4	DRAIN RECEPTACLE
20	500237	BLK	18	16"	#10RING#18-#22	DRAIN RECEPTACLE	RESET SWITCH #1	DRAIN RECEPTACLE
21	095007	WHT	16	4"	#10RING#14-#16	#10 RING #14-#16	RESET SWITCH #1	HEATING ELEMENT "A"
22	095008	YLW	16	13"	F250 #14-#16	#10 RING #14-#16	HEATER RELAY #1	HEATING ELEMENT "B"
23	095009	BRN	16	7"	F250 #14-#16	PIGG	PUMP RELAY "A" (6)	POWER SWITCH #2
24	095010	WHT	16	3"	PIGG	F250 #14-#16	PUMP RELAY #3	PUMP RELAY "A" (6)
25	095011	GRN	16	19"	F250 #14-#16	F250 #14-#16	PUMP RELAY #4	FUSE END
26	095010	WHT	16	3"	PIGG	F250 #14-#16	HEATER RELAY "B" (5)	HEATER RELAY #4
27	095012	BRN	16	12"	F250 #14-#16	#10 RING #14-#16	HEATER RELAY #2	RESET SWITCH #3
28	095013	ORG	16	8"	F250 #14-#16	#10 RING #14-#16	FAN SWITCH #3	RESET SWITCH #1
29	095014	RED	16	11"	#10 RING #14-#16	F250 #14-#16	HEATING ELEMENT "B"	POWER SWITCH #7
30	095010	WHT	16	3"	F250 #14-#16	PIGG	FAN SWITCH #6	POWER SWITCH #7
31	095010	WHT	16	3"	F250 #14-#16	PIGG	FAN SWITCH #7	FAN SWITCH #2
32	095015	BRN	16	12"	F250 #14-#16	#10 RING #14-#16	FAN SWITCH #8	RESET SWITCH #4
33	095016	BLU	16	11"	F250 #14-#16	#10 RING #14-#16	POWER SWITCH #8	RESET SWITCH #4
34	095010	WHT	16	3"	F250 #14-#16	PIGG	POWER SWITCH #6	POWER SWITCH #3
35	095017	BLU	16	10"	F250 #14-#16	F250 #14-#16	HEATER RELAY B (6)	WATER SWITCH #7
36	095018	GRN	16	14"	F250 #14-#16	#10 RING #14-#16	WATER SWITCH #8	RESET SWITCH #4
37	095019	BRN	16	21"	F250 #14-#16	PIGG	WATER SWITCH #6	SOLENOID VALVE B
38	095020	YLW	16	5"	F250 #14-#16	PIGG	WATER SWITCH #2	FAN SWITCH #3
39	095021	GRN	16	13"	F187 #14-#16	F250 #14-#16	Lower Microswitch NC	HEATER RELAY "A" (6)
40	095022	ORG	16	14"	F187 #14-#16	F250 #14-#16	Upper Microswitch NC	WATER SWITCH #3

500247, Exploded Parts List Wiring Diagram, PWS, 8GPD Auto

