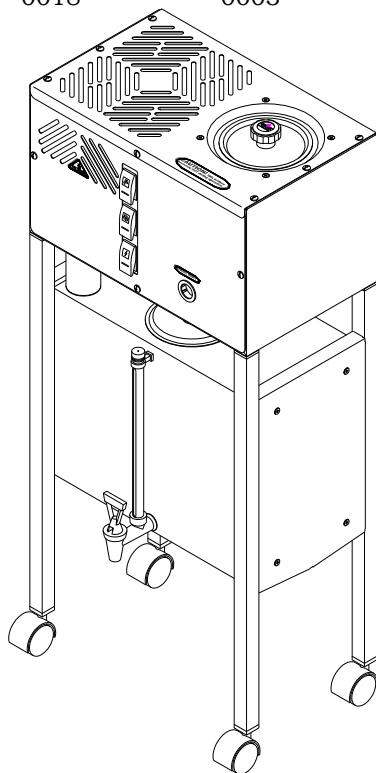




REPLACEMENT PARTS MANUAL

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	0018	0018	0003	0003	0002	0002



MODEL PWS 8-8

PRECISION WATER SYSTEMS

WATER DISTILLER

MANUFACTURED BY:

PRECISION DESIGN & MANUFACTURING INC.

9024-100th STREET

WESTLOCK, ALBERTA, CANADA, T7P 2L4

email: info@precisioncanada.com

PHONE (780) 349-4933 FAX (780)349-4957

TABLE of CONTENTS

	<u>Page</u>
1. 094093 Holding Tank Assembly, 8-5 Automatic	4 & 5
2. 094110 Boiler Assembly, 8GPD Automatic	6 & 7
3. 094947 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. 094074 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
9. 094109 Electrical Terminals	20 & 21
10. 500247 Wiring Schematic	22 & 23

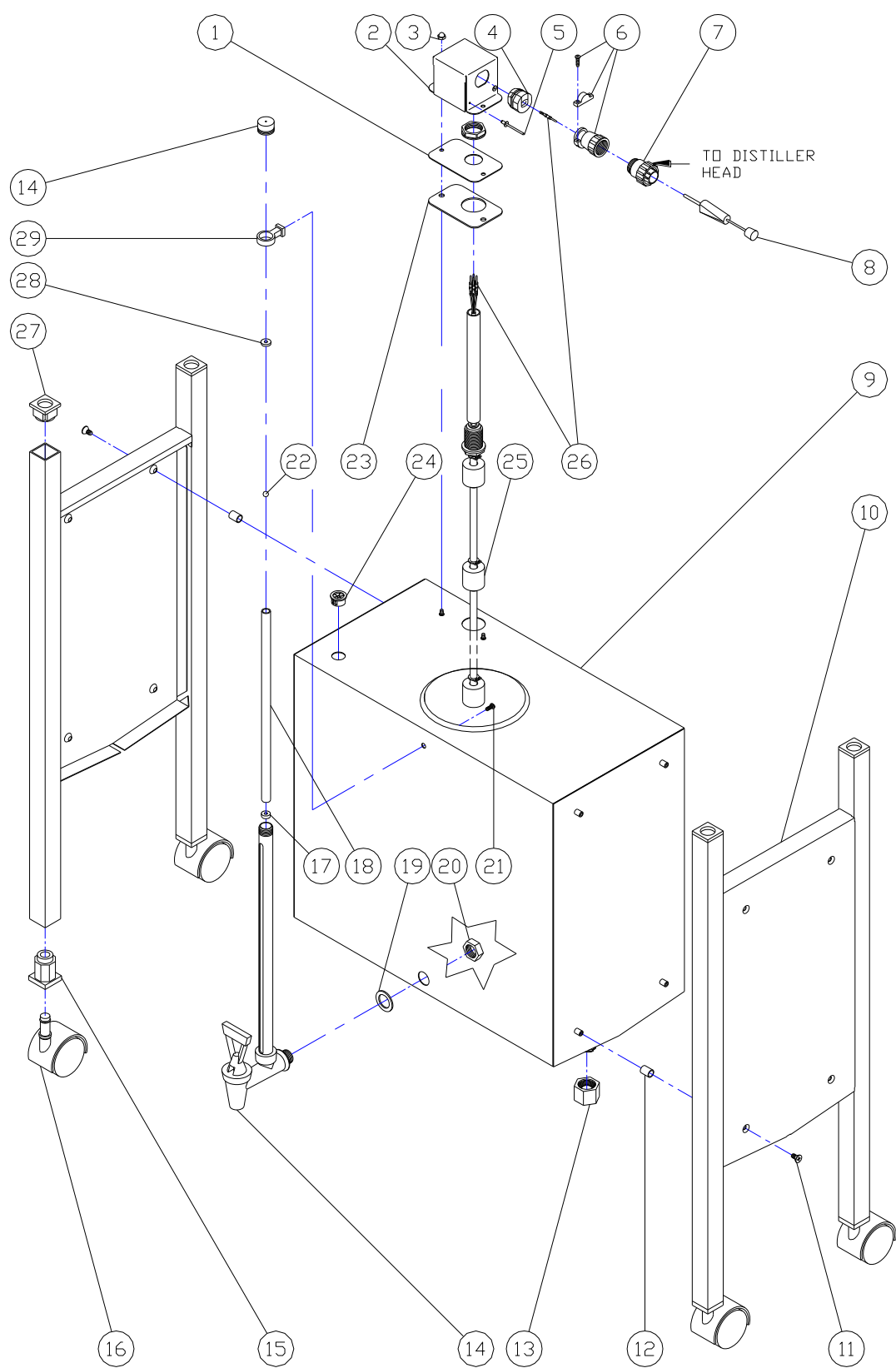
094093, Exploded Parts List

Holding Tank Assembly, PWS, 8-8 Automatic

Item #	Part #	Description	Qty
1	500325	Plate, Level Sensor	1
2	500133	Cover,Holding Tank Wires	1
3	028001	Nut,Acorn,Pltd,#6-32	2
4	054002	Strain Relief,7K-2	1
5	016004	Rivet, Alum, 1/8" x 5/16"	4
6	060045	Strain Relief,7 Pin, Circular	1
7	060043	Plug,7 Pin, Circular	1
8	080135	Tool, Extraction, Circular Pin	1
9	500330	Holding Tank, WA, PWS 8-8,S-7	1
10	500159	Leg End, WA, 8 Gallon	2
11	012008	Scw,Mach,SS,10-24x3/8",Oval/Ph	8
12	500274	Tube, 3/8" x 0.496"	8
13	034023	Cap, Grey, 1/2"FPT	1
14	080122	Valve, HT, 13",Sight Gauge WITHOUT Glass Tube	1
15	054014	Socket,1"Sq,Stem Mnt,Castor	4
16	054013	Castor, 2" Twin Wheel, Stem Mount.	4
17	080448	Washer, Lower Shield, Valve 4"&6"&7.5"&13", HoldingT.	1
18	080452	Sight Gauge Tube, Acrylic, 13"	1
19	080148	Gasket,Washer,1/16",Silicone	1
20	080132	Nut,Jam,3/8",Black	1
21	012013	Scw, Mach, SS, 10-24 x 3/8", Trss Phl	1
22	080217	Ball,Red,Level Indicator	1
23	500326	Gasket, Level Sensor	1
24	054005	Bushing,Wire Plastic, 5/8" Hole	1
25	500355	H.T., 16", MLS ASSY, SS STEM	1
26	060016	Pin,Male,Circular	4
27	054017	Glide,Leg,1"Sq,Vinyl,Black	4
28	080447	Washer, Upper Shield, Valve 4"&6"&7.5"&13", Holding T.	1
29	080130	Support,Sight Gauge,5/8",Blk	1

094093, Exploded Parts List

Holding Tank Assembly, PWS 8-8 Automatic



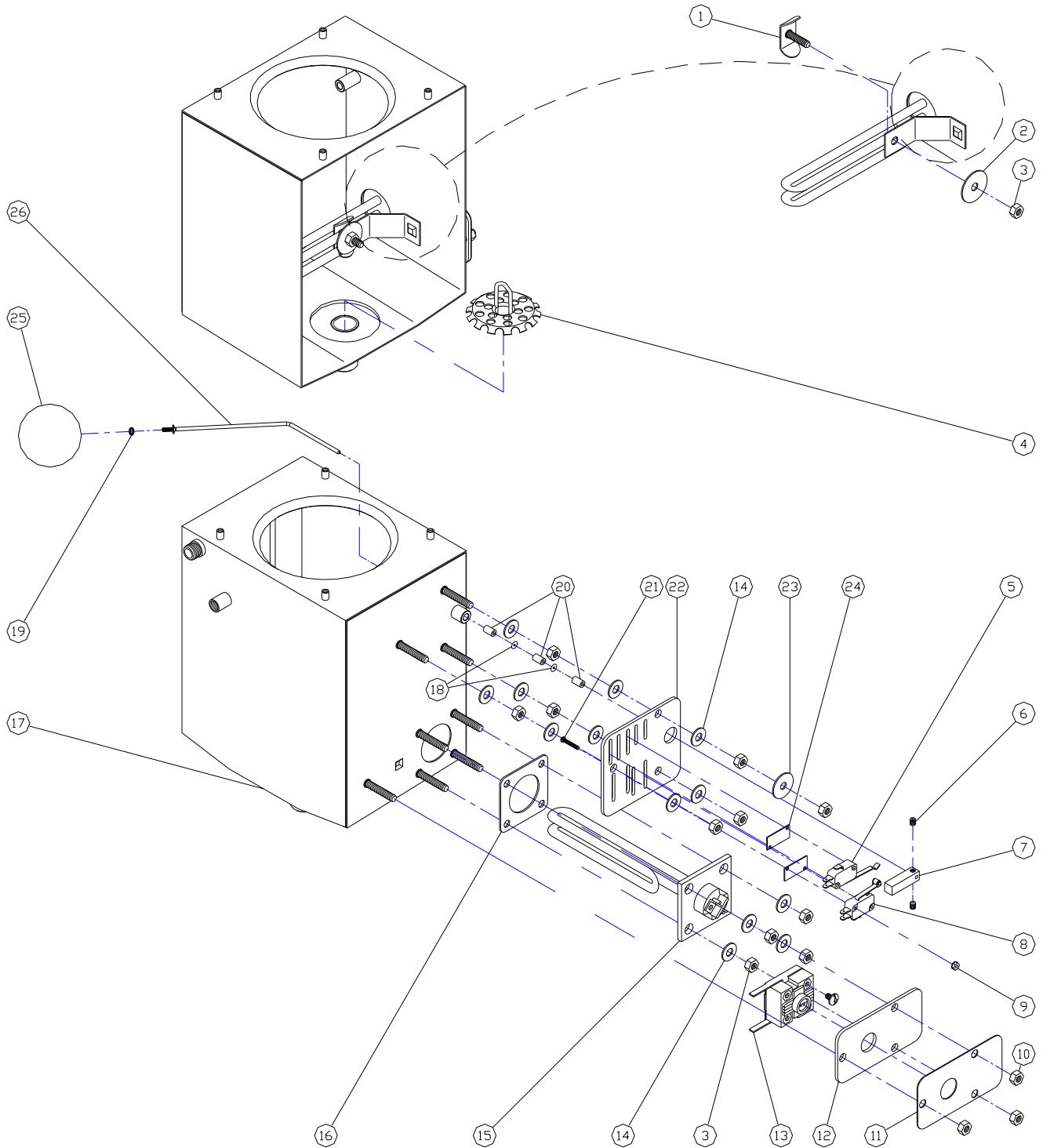
094110, Exploded Parts List

Boiler 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	060059	Micro Switch, Long Arm, Formed	1
6	016035	Set Screw, SS, #10-32 X .25", Cup Point	2
7	530333	Bar Actuator, Boiler Float	1
8	060058	Microswitch, Short Roller Arm	1
9	026003	Nut, Kep, #4-40	4
10	025002	Nut, Hex, 1/4" Plated	10
11	500153	Cover, Reset, SS	1
12	500408	Plate, Reset Switch, 66TM, Lexan	1
13	060104	Switch, Thermo, Manual Reset, DPST, RT	1
14	018004	Washer, 5/16" X 11/16" X 20ga SS	13
15	060001	Heating Element, 120V, 1100W	1
	060002	Heating Element, 240V, 1100W	1
16	500100	Gasket, Heater	1
17	500269	Boiler WA, 8GPD Auto	1
18	080128	O-Ring, 1/16" X 1/8" X 1/4"	2
19	020002	Washer, Lock, SS, M3.5, External Tooth	1
20	080127	Bushing, Teflon, 1/4" X 1/8"	3
21	012003	Screw, Machine, Plated, #4-40 X 3/4"	4
22	500266	Plate, Microswitch	1
23	018028	Washer, Flat, SS, 0.281"ID X 1"OD X 18ga.	1
24	500289	Shim, Micro Switch	2
25	080162	Float Ball, SS, 2-1/4" Round, #6-32	1
26	500487	Rod WA, Boiler Float, Auto	1

094110, Exploded Parts List

Boiler Assembly, 8GPD Automatic

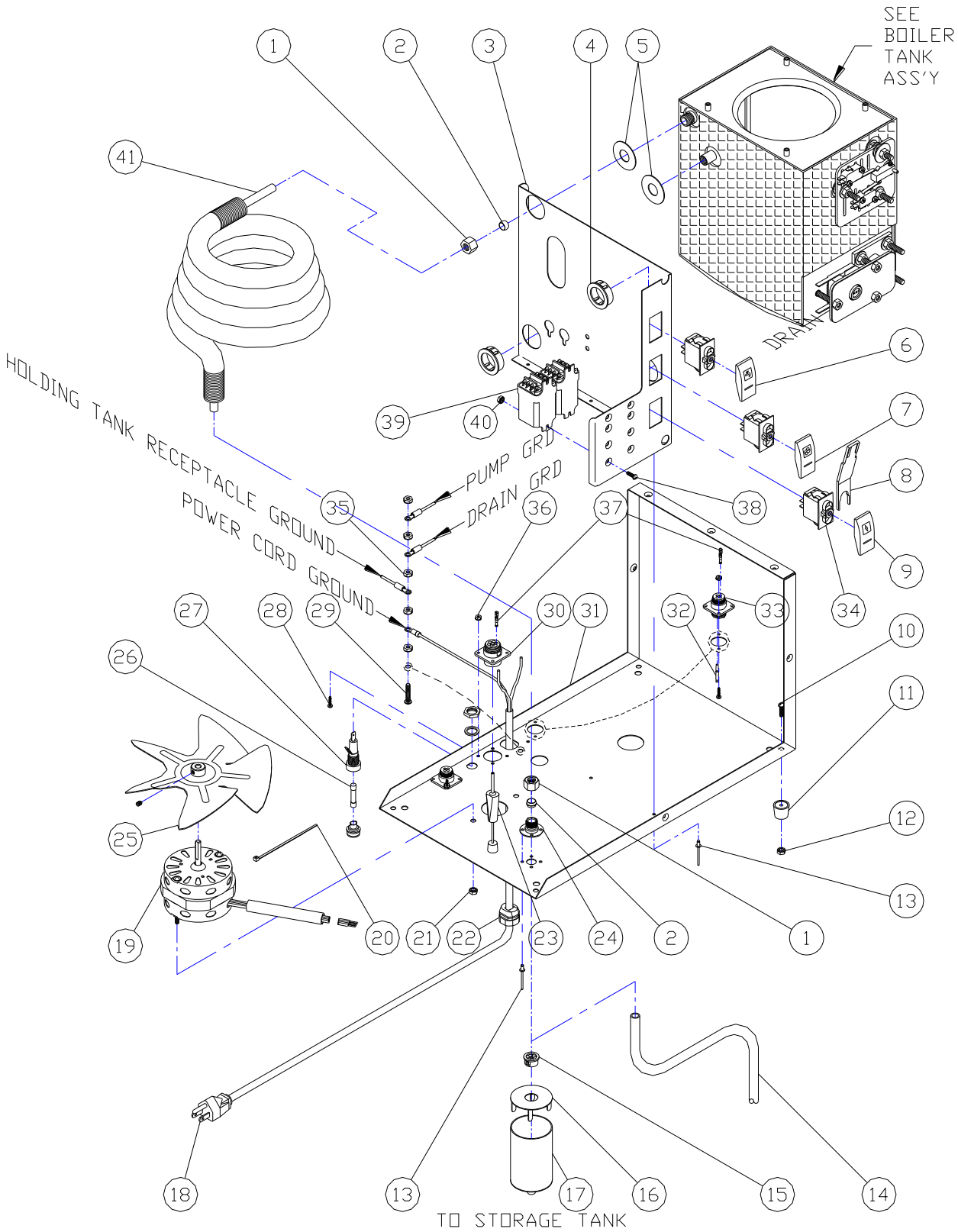


094947, Exploded Parts List

Distiller Body Assembly, PWS, 8GPD Automatic

Item #	Part #	Description	Qty
1	030013	Nut, Plated, 3/8" Compression	2
2	030012	Ferrule, Brass, 3/8" Compression	2
3	500114	Divider, 8 GPD, Auto, SS, PWS	1
4	054004	Bushing, Snap, Plastic, 1-1/4"Hole	2
5	018023	WASHER, FLAT, 5/8"ID x 1-1/2"OD, 20ga, SS	2
6	060031	Actuator, Grey, White - Water	1
7	060030	Actuator, Grey, Amber- Fan	1
8	080134	Tool, Removal, Actuator	1
9	060029	Actuator, Grey, Red-Power	1
10	012012	Screw, Mach, Plated, 8-32x5/8",Rnd/Ph	4
11	500194	Leg, SS, 3/4"OD X 5/8"High	4
12	026001	Nut, Kep, Plated,#8-32	6
13	016004	Rivet, Alum, 1/8" x 5/16"	8
14	052002	Tubing,PVC,5/16"x7/16"	2'
15	054005	Bushing, Wire Plastic, 5/8" Hole	1
16	500260	Filter Cap, W.A., PWS	1
17	500300	Filter, Housing W.A., Auto	1
18	500232	Power Cord Assy,16-3 NA,8GPD	1
19	500233	Motor Assy, 120V, 8GPD, Auto	1
20	054011	Wire Tie, Plastic, 4"	Ref.
21	054002	Strain Relief, 7K-2	1
22	080135	Tool, Extraction, Circular Pin	1
23	530344	MOUNT, WA, CC COMPRESSION	1
24	080045	Fan Blade, 7" Alum.	1
25	060022	Fuse,1 Amp, Slow Blow	1
26	060036	Fuse Holder, Chassis, 15 AMP	1
27	012019	Screw, Machine, Plated, #4-40 X 1/2", Rnd/Sk	6
28	012000	Scw,Mach,Pltd,#10-24x1",Rnd/Sk	1
29	060044	Receptacle,7 Pin, Circular	1
30	500126	Body,8 GPD, Auto	1
31	060084	Keying Plug, Circular	2
32	060130	Receptacle, 4 Pin, Circular	2
33	060028	Switch Base,120/240V,Dual Lght	3
34	026000	Nut, Kep, Pltd, #10-24	5
35	026003	Nut,Kep,Pltd,#4-40	6
36	060017	Pin, Female, Circular	10
37	012009	Scw, Mach, Pltd, 6-32 x 1/2" Rnd/Skt	4
38	060020	Relay, Schrack, DPDT, 120V	2
	060021	Relay, Schrack, DPST, 240V	2
39	026002	Nut, Kep, Pltd, #6-32	4
40	4500239	Cooling Coil Assy,8 GPD,Auto	1

094947, Exploded Parts List
Distiller Body Assembly, PWS, 8GPD Automatic



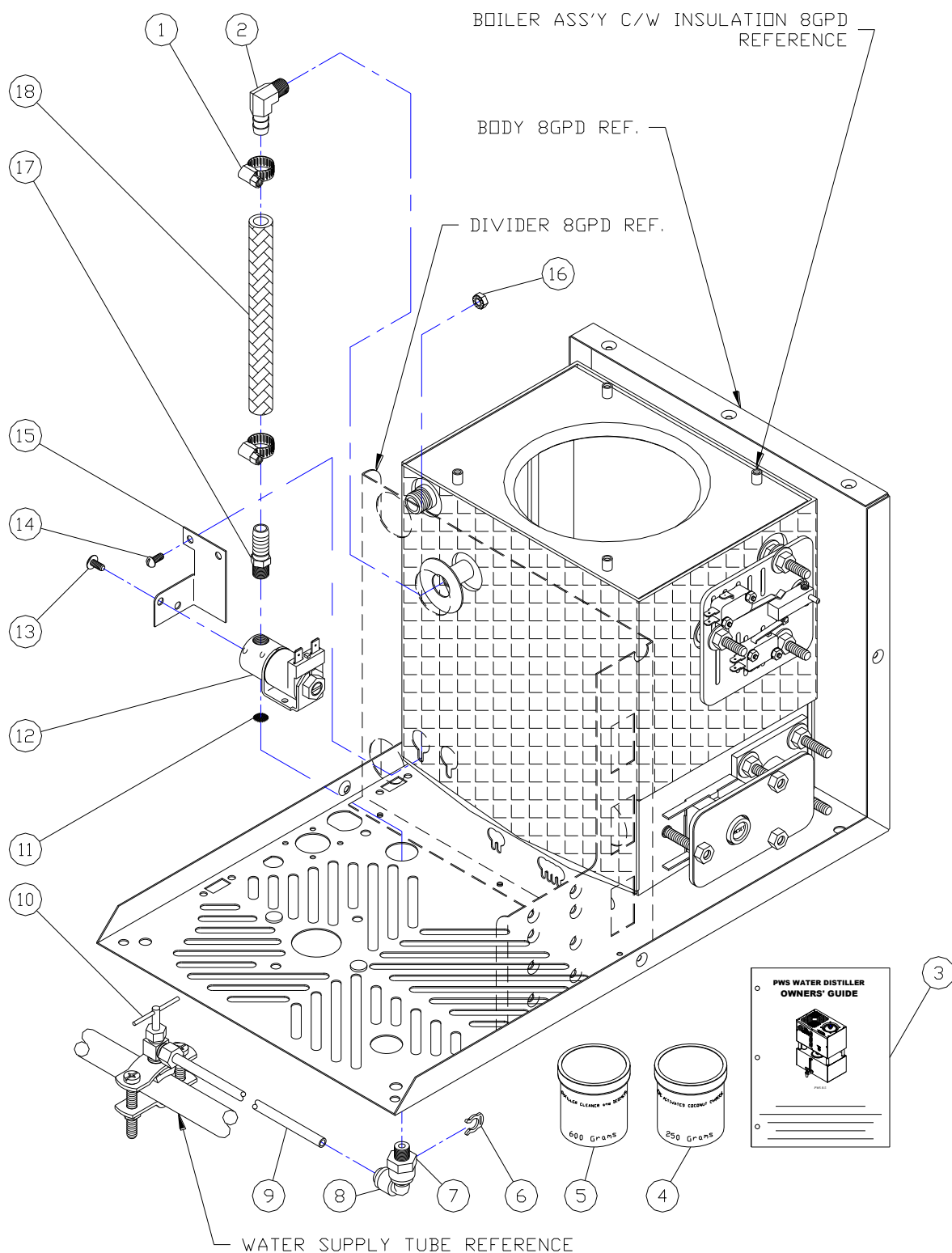
094070, Exploded Parts List

8GPD Solenoid Valve Assembly

Item #	Part #	Description	Qty
1	080056	Gear Clamp, SS, 1/4"	2
2	030003	Elbow, 90 Degree, 1/8"MPT X 3/8"HB	1
3	097122	Owners Guide, PWS 8-8	1
4	080115	Descaler, Sample, 300Gr. Jar	1
5	080116	Charcoal, Sample, 100Gr. Jar	1
6	034009	Locking Clip, 1/4" JG	1
7	034054	Gray Acetal Male Connector 1/4 x 1/8 NPTF, JG	1
8	034057	Gray Acetal Plug in Elbow, 1/4 Stem - 1/4 Tube, JG	1
9	052000	Tubing, 1/4" Feed-line	16'
10	036005	Valve, Self Piercing Kit	1
11	080197	Screen, 50 Mesh, Solenoid Valve	1
12	060026	Solenoid Valve, 1/8"FPT BE, 120V	1
	060027	Solenoid Valve, 1/8"FPT BE, 240V	1
13	012017	Screw, Machine, SS, #8-32UNC X 3/8"	2
14	012012	Screw, Machine, Plated, #8-32 X 5/8"	2
15	500469	Bracket, Brass Solenoid Valve	1
16	026001	Nut, Kep, Plated, #8-32UNC	2
17	030001	Coupler, 1/8"MPT x 3/8"HB	1
18	052004	Tubing, 3/8" X 0.6" Braided	0.479'

094070, Exploded Parts List

8GPD Solenoid Valve Assembly



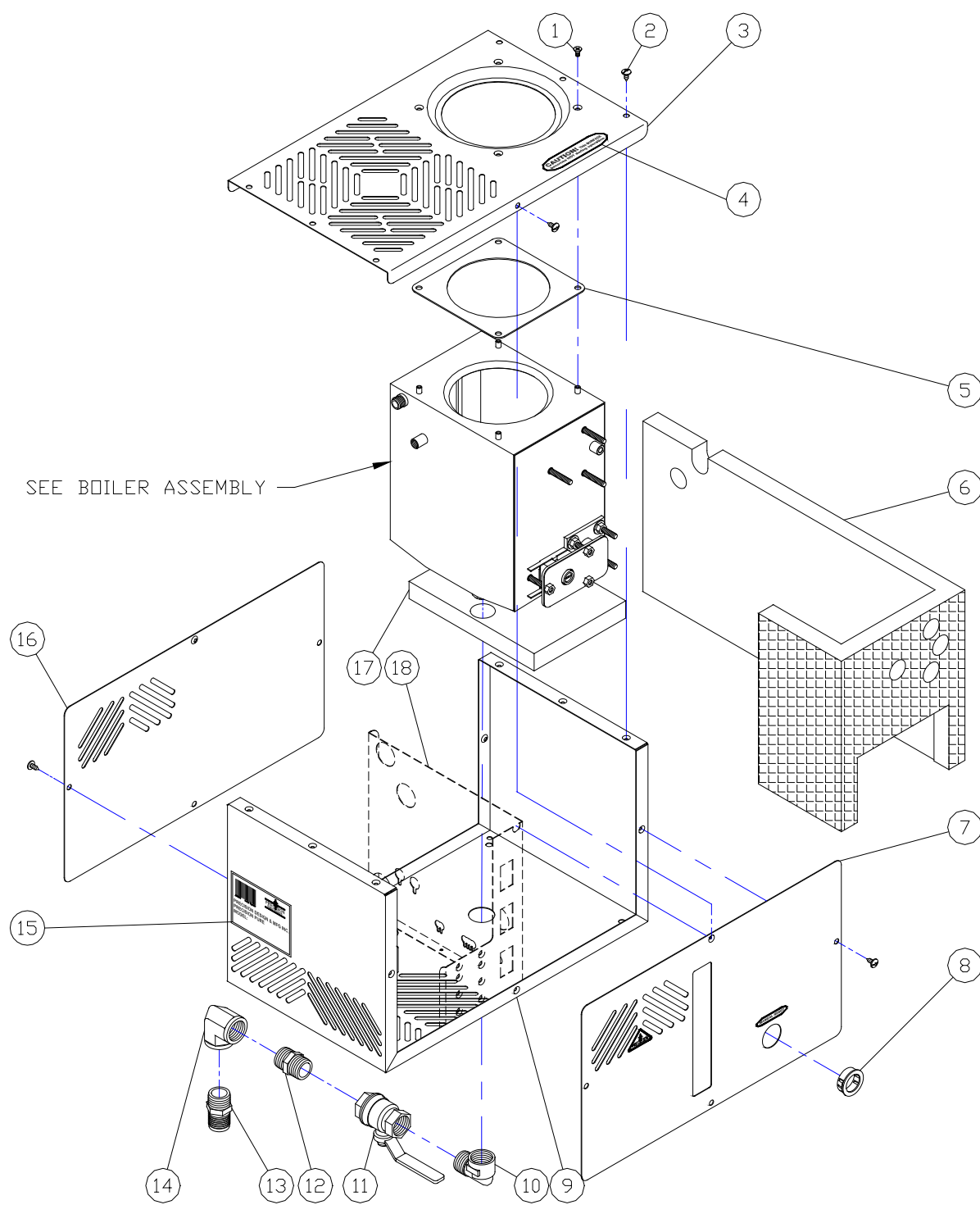
094076, Exploded Parts List

Distiller Head Assembly, PWS, 8GPD Automatic

Item #	Part #	Description	Qty
1	012008	Screw, Machine, #10-24 X 3/8", Oval Head	4
2	010000	Screw, Sheet Metal, #10-12 X 1/2", SS	14
3	500127	Cover, Top, 8GPD, Auto	1
4	080120	Decal, Sht, PWS, Distillers	0.25
5	500111	Gasket, Lid	1
6	500240	Insulation, 8GPD Auto Boiler Sides	1
7	500128	Cover, Front, 8GPD Auto	1
8	054004	Bushing, Snap, 1.25"	1
9	500126	Body, 8GPD Automatic	1
10	030016	Elbow, 90 Degree, 3/4"MPT X 3/4"FPT	1
11	030009	Valve, Ball, 3/4"FPT, Both Ends	1
12	030017	Nipple, Close, 3/4"MPT	1
13	030015	Coupler, 3/4"MPT X 1"HB	1
14	030018	Elbow, 90 Degree, 3/4"FPT, Both Ends	1
15	080119	Sheet,Imprintable Poly,Silver 8.5 x 11	0.25
16	500129	Cover, Rear, 8GPD Auto	1
17	500241	Insulation, 8GPD Auto Boiler Bottom	1
18	500114	Divider, 8GPD Auto	1

094076, Exploded Parts List

Distiller Head Assy, PWS, 8GPD Automatic



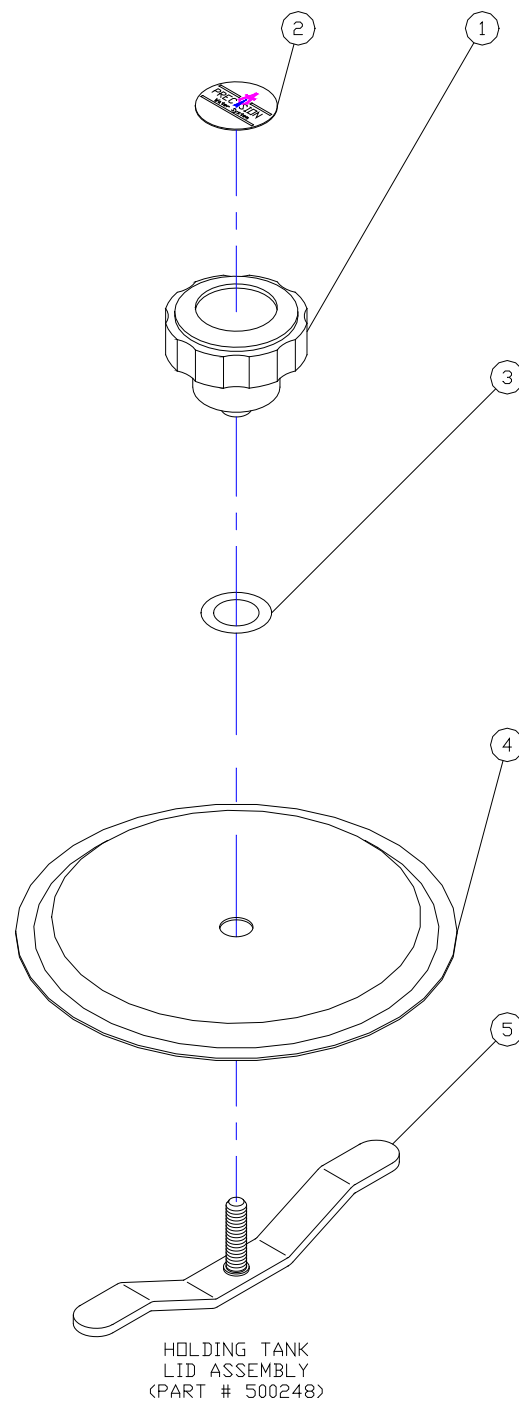
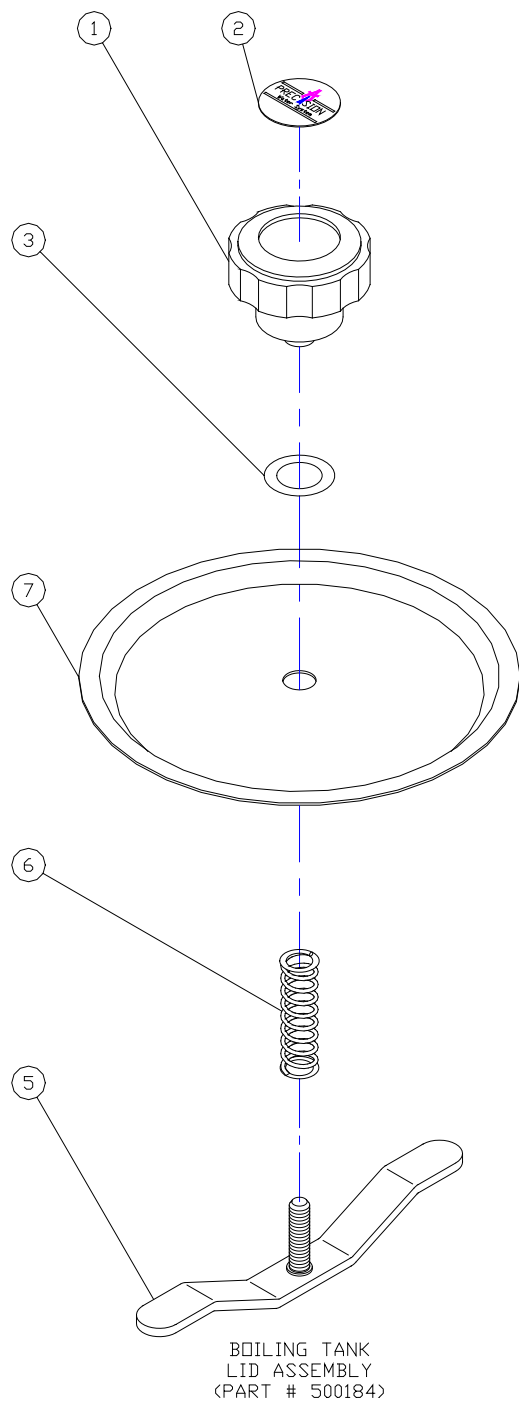
094074, Exploded Parts List

Boiling Tank & Holding Tank Lids Assemblies

Item #	Part #	Description	Qty
1	080053	Knob, Black Phenolic, ¼"-20	2
2	080106	Inlay, Knob, PWS	2
3	080064	O-Ring, Lid Knob, Buna 112	2
4	500119	Lid, Holding Tank, Disc, SS, 5.5"	1
5	500115	Tee Bar, Studded, 5.5"	2
6	080058	Spring, Boiling Tank, Lid, SS	1
7	500118	Lid, Boiling Tank, Disc, SS, 5.5"	1

094074, Exploded Parts List

Boiling & Holding Tank Lids Assemblies, PWS



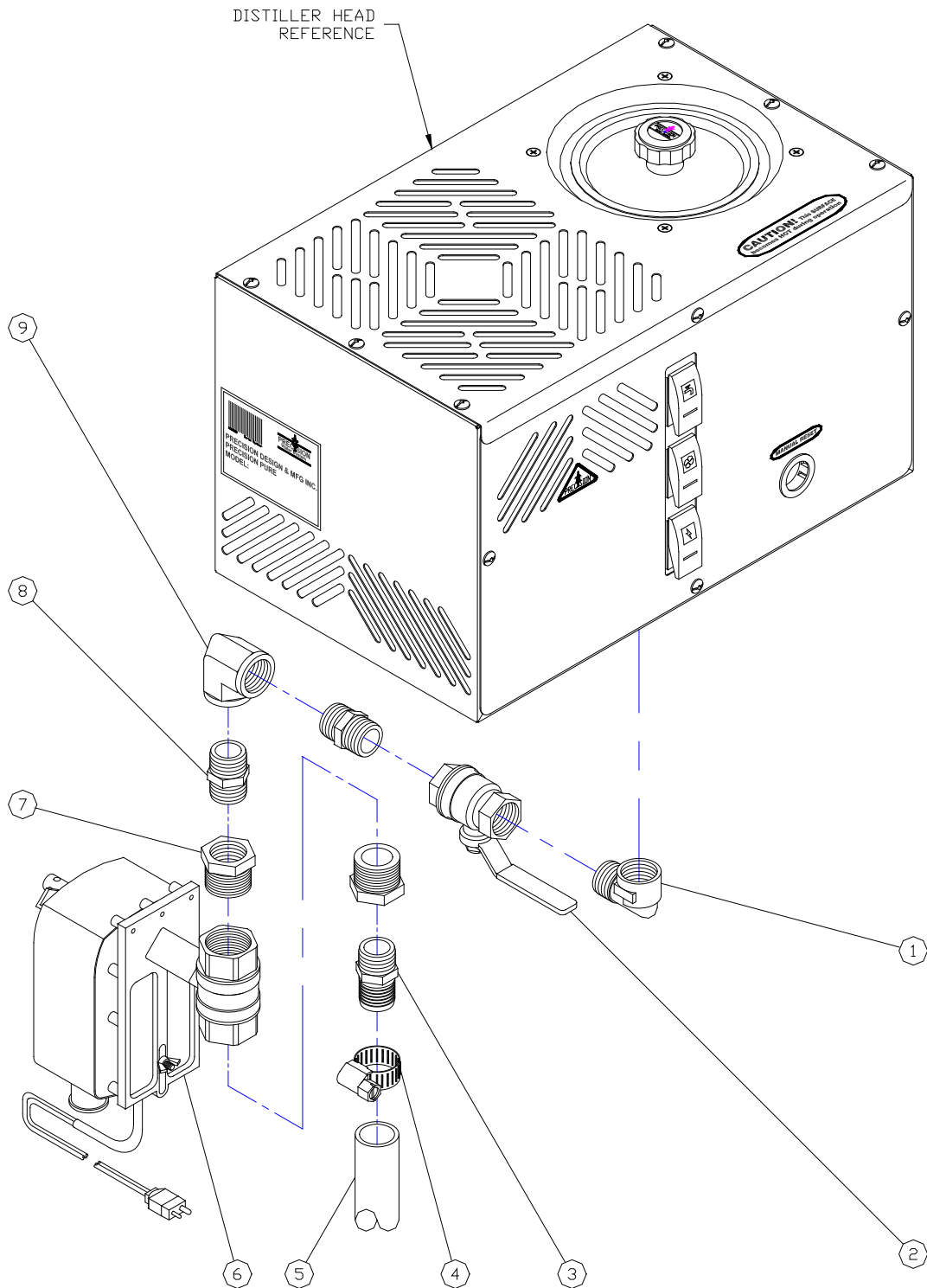
094071, Exploded Parts List

Automatic Electric Drain Assembly, AED-1

Item #	Part #	Description	Qty
1	030016	Elbow, 90 Degree, ¾"FPT X ¾"MPT	1
2	030009	Valve, Ball, ¾"FPT, Both Ends	1
3	030015	Coupler, ¾"MPT X 1"HB	1
4	080121	Clamp, Gear, 1-1/4"	1
5	052005	Tubing, 1" X 1-1/4"	4'
6	500448	Motorized Ball Valve, w/Cord, 115V	1
	500452	Motorized Ball Valve, w/Cord, 230V	1
7	030031	Reducer, 1"MPT X ¾"FPT	2
8	030017	Nipple, Close, ¾"MPT	2
9	030018	Elbow, 90 Degree, ¾"FPT, Both Ends	1

094071, Exploded Parts List

Automatic Electric Drain Assembly, AED-1

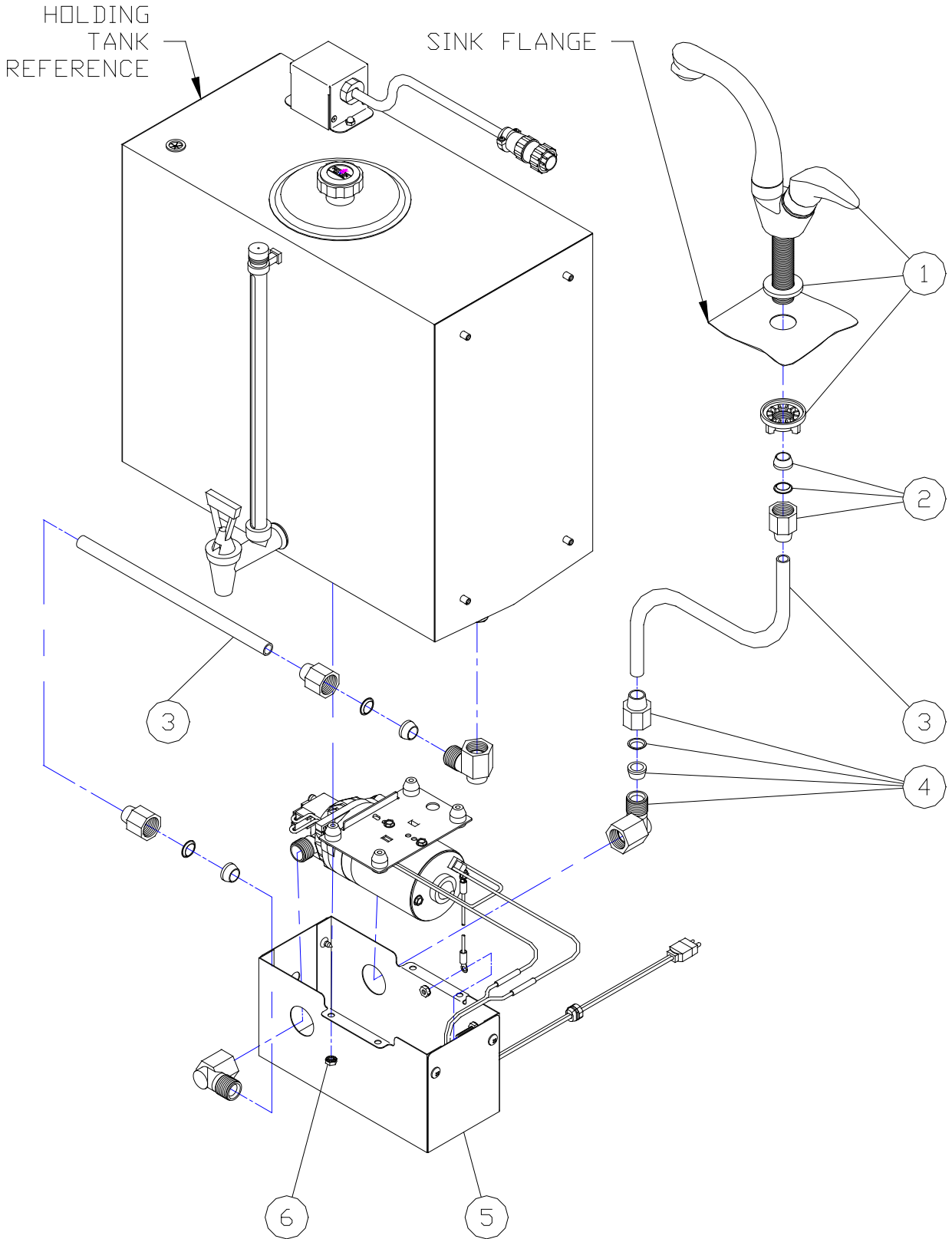


094094, Exploded Parts List Automatic Pump Assembly, APK-1

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"	25'
4	034002	Elbow, 90 Degree, ½"FPT X ½"OD Tube	3
5	500358	Pump Ass'y, W/Cord, 1.4GPM, 120V, 2P	1
6	026000	Nut, Kep, Plated, #10-24	4

094094, Exploded Parts List

Automatic Pump Assembly, APK-1



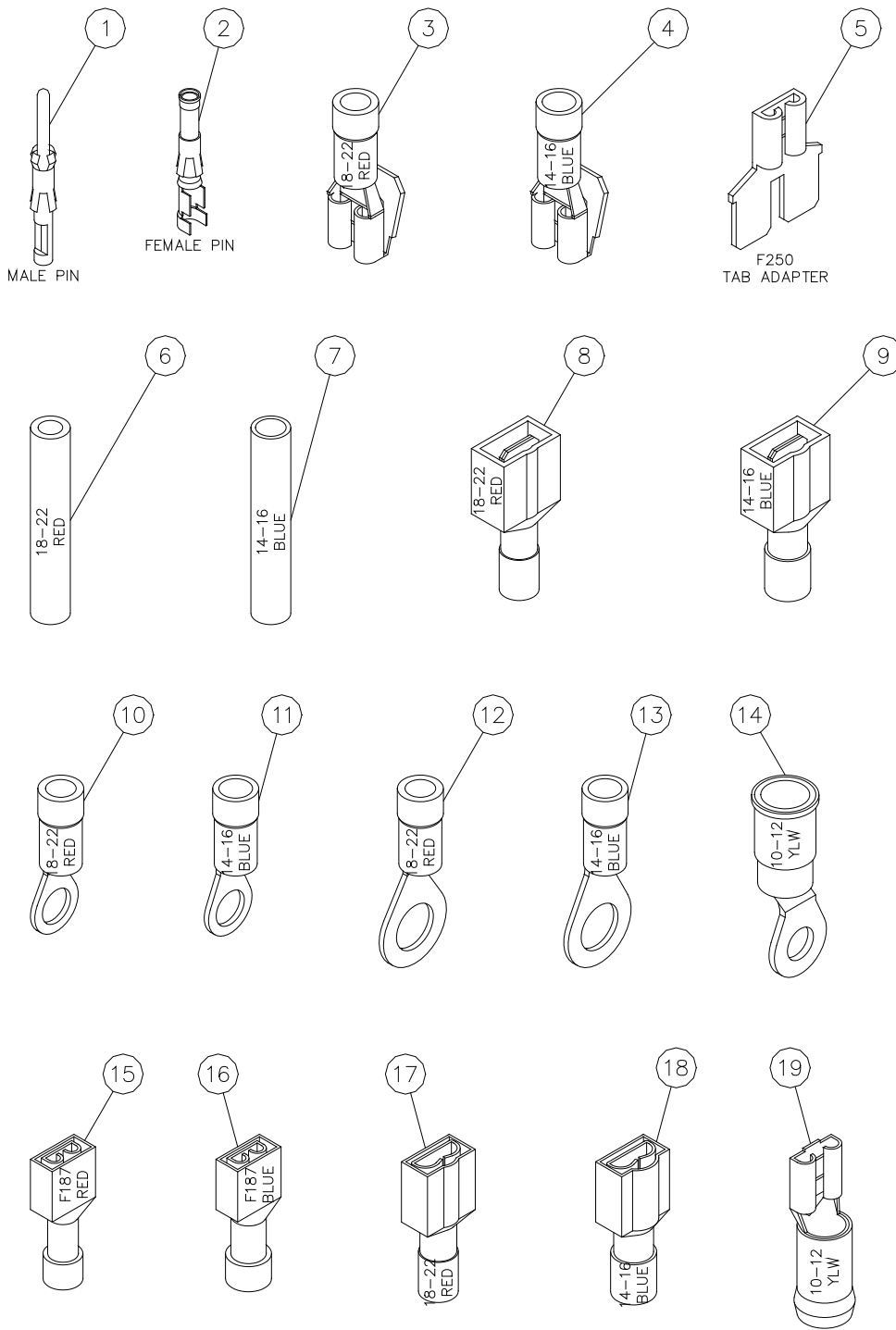
094109, Exploded Parts List

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	066012	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, ¼", #18-22 AWG, Red
13	066009	Ring, ¼", #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

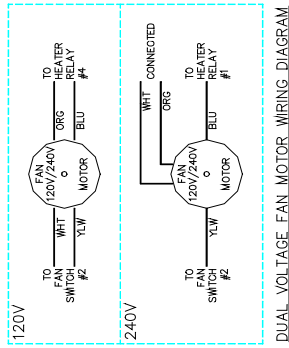
Electrical Terminals



Wiring List - PRECISION PURE 8-5/8-8 (8GPD AUTO) -120V PART # 500247-S13							
No.	Part#	Color	Ga	Length	From Conn.	SERIES 13 To Conn.	From Location To Location
1	500232	GRN	16	3"	#10RING #14-#16	POWER CORD	GROUND
2	500232	BLK	16	14.5"	F250 #14-#16	POWER CORD	POWER SWITCH #2
3	500232	WHT	16	14.5"	#10RING #14-#16	POWER CORD	RESET SWITCH #4
4	500233	BLK	18	10"	PIGG#18-#22&F250#18-#22	FAN MOTOR (ORG/BLU)	HEATER RELAY #4
5	500233	BLK	18	11"	F250 #18-#22&PIGG#18-#22	FAN MOTOR (YLW/WHT)	FAN SWITCH #2
6							
7							
8							
9	095001	BLK	16	7"	#10RING #14-#16	F187 #14-#16	RESET SWITCH #1
10	095000	GRN	16	20"	PIGG #14-#16	F250 #14-#16	HEATER RELAY "B"
11	095030	BLK	16	19"	F187 #14-#16	F250 #14-#16	Upper Microswitch COM
12	500236	BLK	18	3.5"	F250 #18-#22	PUMP RECEPTACLE	FUSE SIDE
13	500236	BLK	18	20"	#10RING #18-#22	PUMP RECEPTACLE	RESET SWITCH #3
14	095002	ORG	16	16"	#10RING #14-#16	FPIN	RESET SWITCH #3
15	095003	BLU	16	16"	F250 #14-#16	FPIN	HEATER RELAY #6
16	095004	YLW	16	7"	PIGG #14-#16	FPIN	SOLENOID VALVE A
17	095005	RED	16	19"	F250 #14-#16	FPIN	PUMP RELAY "B"
18	095006	RED	16	8"	F250 #14-#16	#10RING #14-#16	POWER SWITCH #3
19	500237	BLK	18	16"	PIGG #18-#22	DRAIN RECEPTACLE	WATER SWITCH #7
20	500237	BLK	18	16"	#10RING #18-#22	DRAIN RECEPTACLE	RESET SWITCH #1
21	095007	WHT	16	4"	#10RING #14-#16	#10RING #14-#16	RESET SWITCH #1
22	095008	YLW	16	13"	F250 #14-#16	#10RING #14-#16	HEATER RELAY #4
23	095009	BRN	16	7"	F250 #14-#16	PIGG #14-#16	PUMP RELAY "A"
24	095010	WHT	16	3"	PIGG#14-#16	F250 #14-#16	PUMP RELAY #6
25	095011	GRN	16	19"	F250 #14-#16	F250 #14-#16	PUMP RELAY #9
26	095010	WHT	16	3"	PIGG#14-#16	F250 #14-#16	HEATER RELAY "B"
27	095012	BRN	16	13"	F250 #14-#16	#10RING #14-#16	HEATER RELAY #7
28	095013	ORG	16	9"	F250 #14-#16	#10RING #14-#16	FAN SWITCH #3
29	095014	RED	16	11"	#10RING #14-#16	F250 #14-#16	HEATING ELEMENT "B"
30	095010	WHT	16	3"	F250 #14-#16	PIGG #14-#16	FAN SWITCH #6
31	095010	WHT	16	3"	F250 #14-#16	PIGG #14-#16	FAN SWITCH #7
32	095012	BRN	16	13"	F250 #14-#16	#10RING #14-#16	FAN SWITCH #8
33	095016	BLU	16	11"	F250 #14-#16	#10RING #14-#16	POWER SWITCH #8
34	095010	WHT	16	3"	F250 #14-#16	PIGG #14-#16	POWER SWITCH #6
35	095017	BLU	16	10"	F250 #14-#16	F250 #14-#16	HEATER RELAY #9
36	095018	GRN	16	14"	F250 #14-#16	#10RING #14-#16	WATER SWITCH #8
37	095019	BRN	16	21"	F250 #14-#16	PIGG #14-#16	WATER SWITCH #6
38	095020	YLW	16	5"	F250 #14-#16	PIGG #14-#16	WATER SWITCH #2
39	095021	GRN	16	13"	F187 #14-#16	F250 #14-#16	Lower Microswitch NC
40	095022	ORG	16	14"	F187 #14-#16	F250 #14-#16	Upper Microswitch NC

500247, Exploded Parts List

Wiring Diagram, PWS 8GPD, Auto



DUAL VOLTAGE FAN MOTOR WIRING DIAGRAM

