

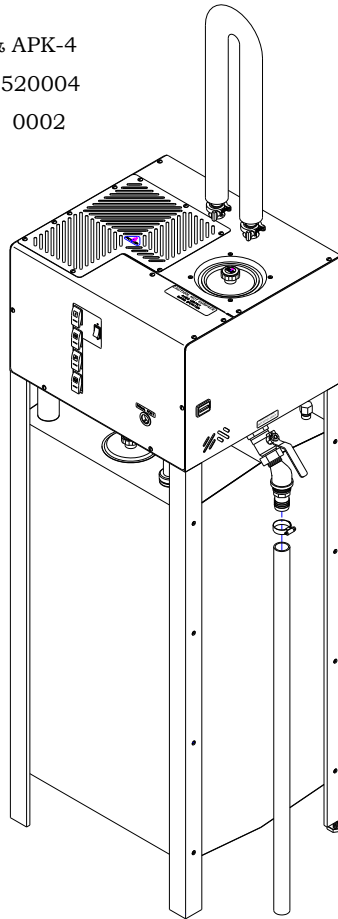


REPLACEMENT PARTS MANUAL

FOR MODEL: PWS 45-75, AED-2 & APK-4

PART # 520000 520003 520004

SERIES 0009 0002 0002



PRECISION WATER SYSTEMS

MANUFACTURED BY:

WATER DISTILLER

PRECISION DESIGN & MANUFACTURING INC.

9024-100 STREET

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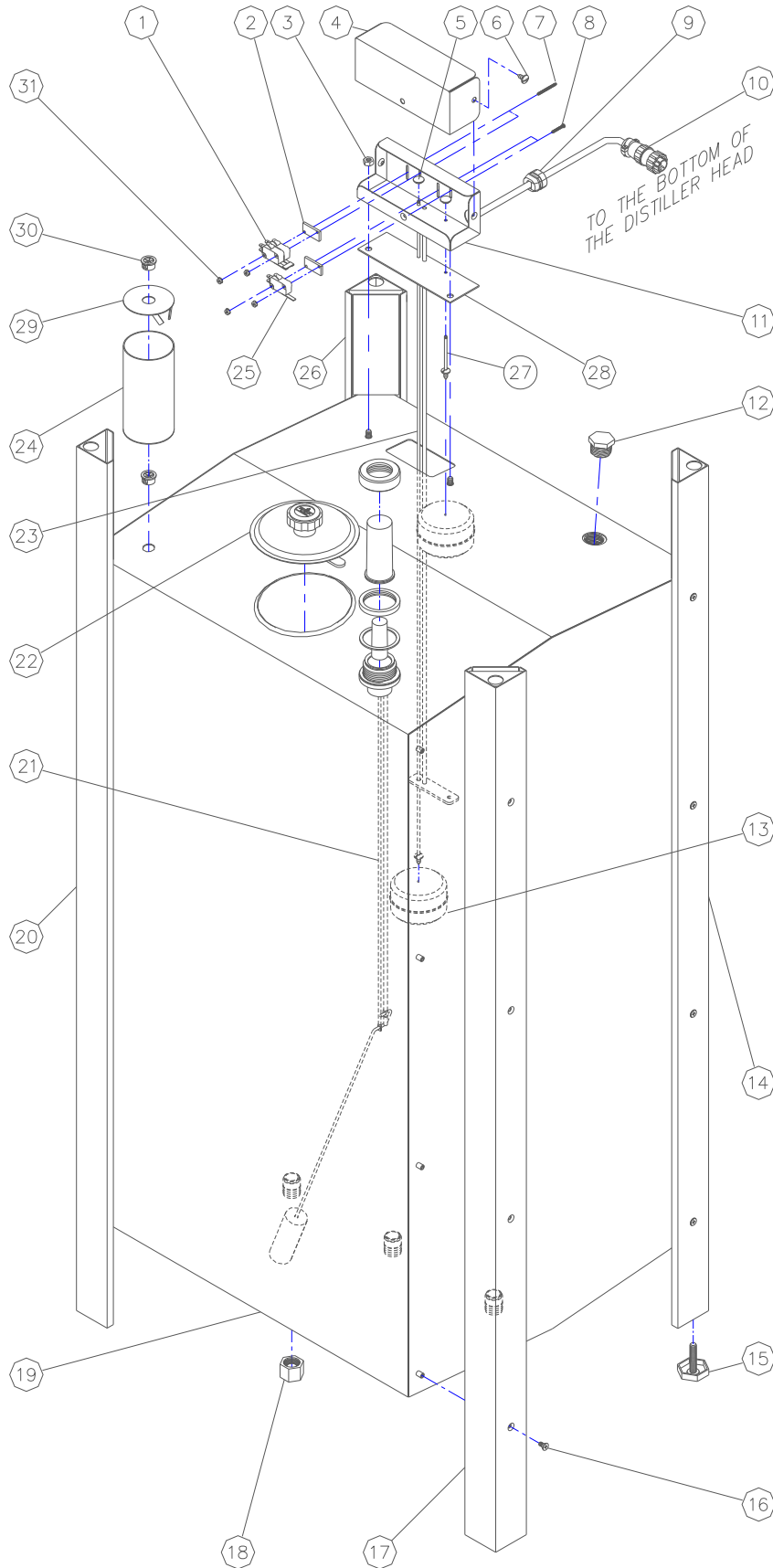
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094150, Exploded Parts List

Holding Tank Assembly, 45-75

Item #	Part #	Description	Qty
1	520149	Dual Micro Switches WA, Short Arm	1
2	520147	Shim, Micro Switch, Lexan	2
3	025000	Nut, Hex, SS, 1/4"-20	2
4	520146	Cover, Level Sensor, CD	1
5	520159	Cap Nut WA, #6-32	2
6	010000	Screw, Sheet Metal, SS, #10-12 X 1/2"	3
7	016017	Screw, Nylon, #4-40 X 1.25", Fillips Head	2
8	012003	Screw, Machine, Plated, #4-40 X 3/4"	2
9	054002	Stain Relief, 7K-2	1
10	520174	Harness, Circular Plug, Level Sensor, CD	1
11	520160	Level Sensor Box WA, CD	1
12	034092	Plug, 3/4"-14MPT, Poly	1
13	080187	Float, PF-24, Puck	2
14	520115	Leg WA, Rear Right, CD	1
15	080126	Appliance Foot, 5/16" X 1-1/2"	2
16	012008	Screw, Machine, SS, #10-24 X 3/8" Oval	16
17	520117	Leg WA, Front Right, CD	1
18	036041	Cap, SS, 1/2"-14 FNTF	3
19	520112	Holding Tank WA, 45-75	1
20	520116	Leg WA, Front Left, CD	1
21	080174	Sight, Gauge Assembly, 40"	1
22	500248	Lid Assembly, Holding Tank	1
23	520157	Rod WA, 1/8" X 39-1/4"	1
24	520176	Filter Housing WA, 2-1/2", CD	1
25	400006	Micro Switch, Short Arm	1
26	520114	Leg WA, Rear Left, CD	1
27	520168	Rod WA, 1/8" X 2"	1
28	520144	Gasket, Level Sensor Box, CD	1
29	520178	Filter Cap WA, 2-1/2"	1
30	054005	Bushing, Wire Plastic, 5/8" Hole	2
31	026007	Nut, Kep, #18-8 SS, #4-40UNC	4

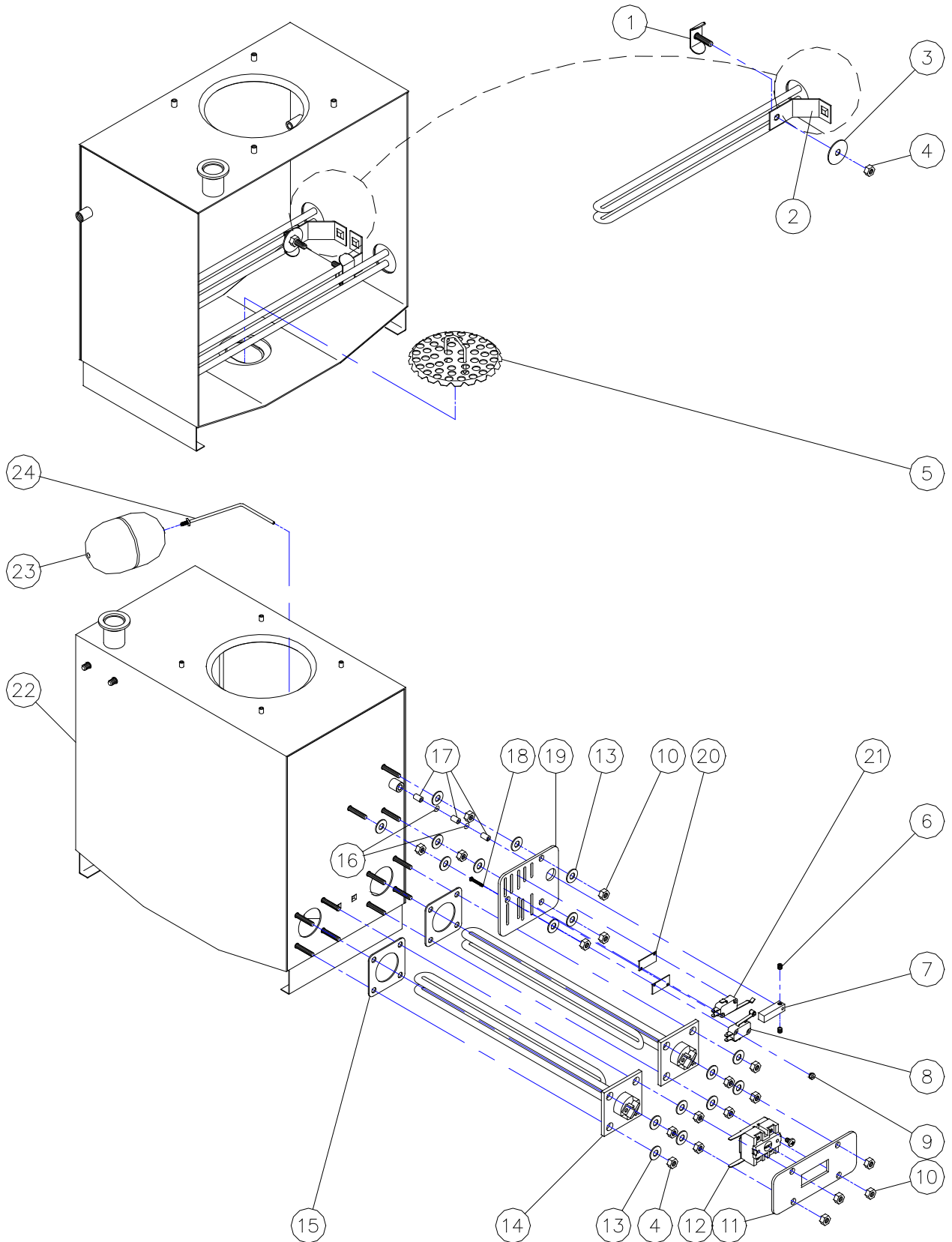
094150, Exploded Parts List Holding Tank Assembly, 45-75



094151, Exploded Parts List Boiling Tank Assembly, 45-75

Item #	Part #	Description	Qty
1	500182	Clip, Heater Studded	2
2	500132	Bracket, Heater	1
3	018009	Washer, Flat, 5/16" X 1-1/4" X 18ga, SS	2
4	025000	Nut, Hex, SS, 1/4"-20	9
5	520108	Strainer WA, CD	1
6	016035	Set Screw, SS, #10-32 X 1/4", Cup Point	2
7	530333	Bar, Actuator, Boiler Float	1
8	060058	Micro Switch, Short Roller Arm	1
9	026007	Nut, Kep, 18-8 SS, #4-40UNC	4
10	025000	Nut, Hex, SS, 1/4-20	10
11	520218	Plate, Reset Switch, 66TM, Lexan, CD	1
12	060104	Switch, Thermo, Manual Reset, DPST, RT	1
13	018004	Washer, Flat, 20ga, SS, 5/16" X 11/16"	17
14	060005	Heating Element, 208V, 2500W	2
	060006	Heating Element, 220V, 2500W	2
	060007	Heating Element, 240V, 2500W	2
15	500100	Gasket, Heater	2
16	080128	O-Ring, Viton, 1/16" X 1/8" X 1/4"	2
17	080127	Bushing, Teflon, 1/4" X 1/8"	3
18	012003	Screw, Machine, Plated, #4-40 X 3/4"	4
19	500266	Plate, Micro Switch, Lexan	1
20	500289	Shim, Micro Switch, 20ga, SS	2
21	060059	Micro Switch, Long Arm, Formed	1
22	520105	Boiler Tank WA, CD	1
23	080044	Float Ball, SS, 2.5" X 4", #8-32	1
24	520173	Rod WA, Boiler Float, CD	1

094151, Exploded Parts List Boiling Tank Assembly, 45-75



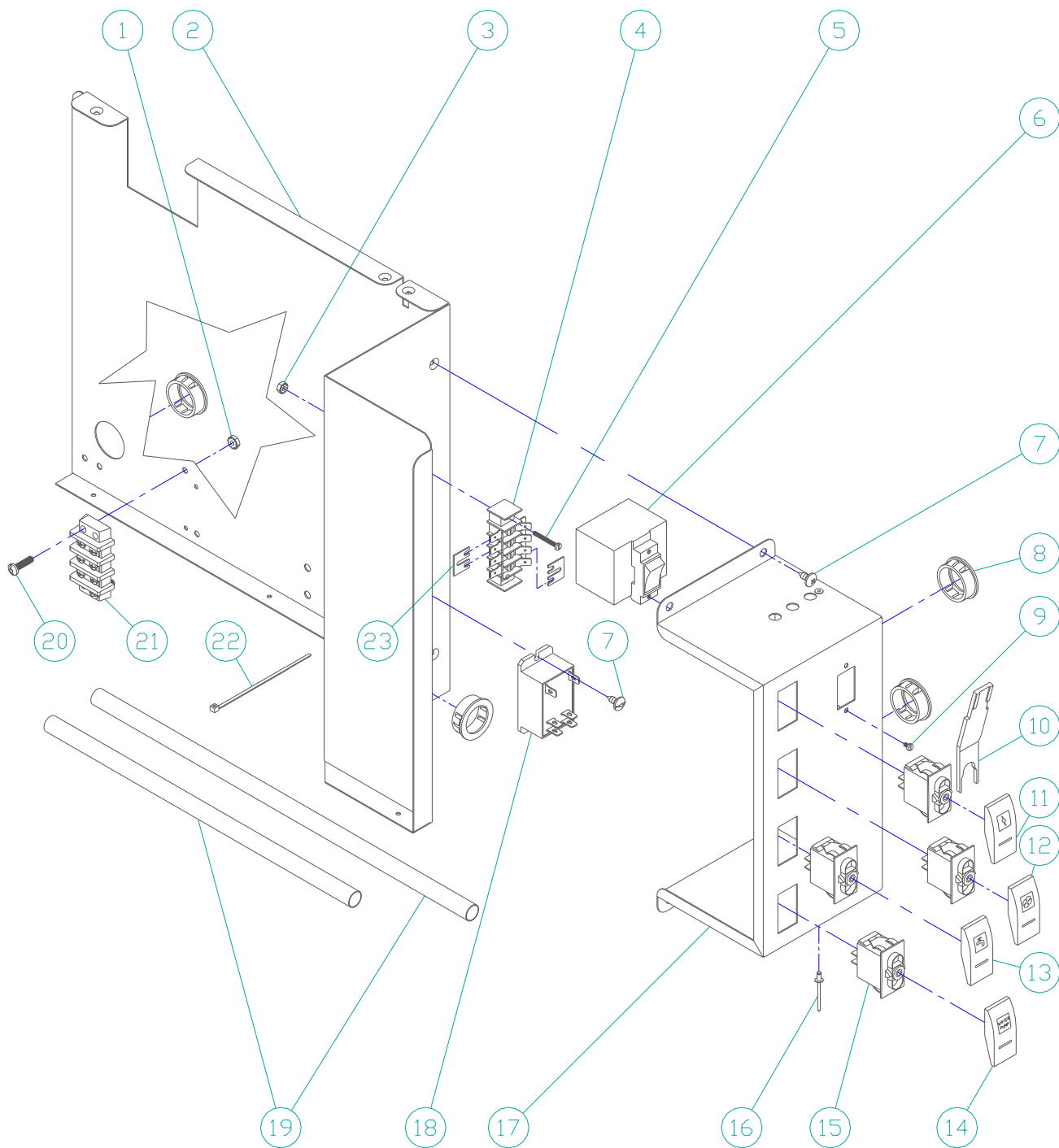
094155, Exploded Parts List

Electrical Panel Assembly, 45GPD

Item #	Part #	Description	Qty
1	026004	Nut, Kep, 18-8 SS, #10-24UNC	2
2	520123	Divider, Commercial Distiller	1
3	026006	Nut, Kep, 18-8 SS, #6-32UNC	4
4	060072	Terminal Block, 4" X 4" F250 Double Tab	1
5	012002	Screw, Machine, Plated, #6-32 X 1", Round	2
6	060066	Rocker, 30A Breaker Double Pole	1
7	010002	Screw, Sheet Metal, Plated, #10-12 X ½"	6
8	054004	Bushing, Snap, 1.25" Hole	4
9	012020	Screw, Machine, Plated, #6-32 X 3/16"	2
10	080134	Tool, Removal, Actuator	1
11	060073	Actuator, Black, Red-Power	1
12	060074	Actuator, Black, Amber-Fan	1
13	060075	Actuator, Black, White-Water	1
14	060225	Actuator, Black, White-Water Pump	1
15	060028	Switch Base, 120/240V, Dual Light	4
16	016004	Rivet, Aluminum, 1/8" X 5/16"	2
17	520128	Panel, Electrical, Commercial Distiller	1
18	060067	Relay, T92, DPST, 30A, 240V	1
19	080108	Sleeve, Fiberglass, ½" X 13"	1
	080108	Sleeve, Fiberglass, ½" X 16"	1
20	012011	Screw, Machine, SS, #10-24 X ¾"	2
21	060231	Double Row Terminal Block, 30A, 600V, 3 Positions	1
22	054011	Wire Tie, Plastic, 4"	20
23	520166	Jumper, 2 Poles	2

094155, Exploded Parts List

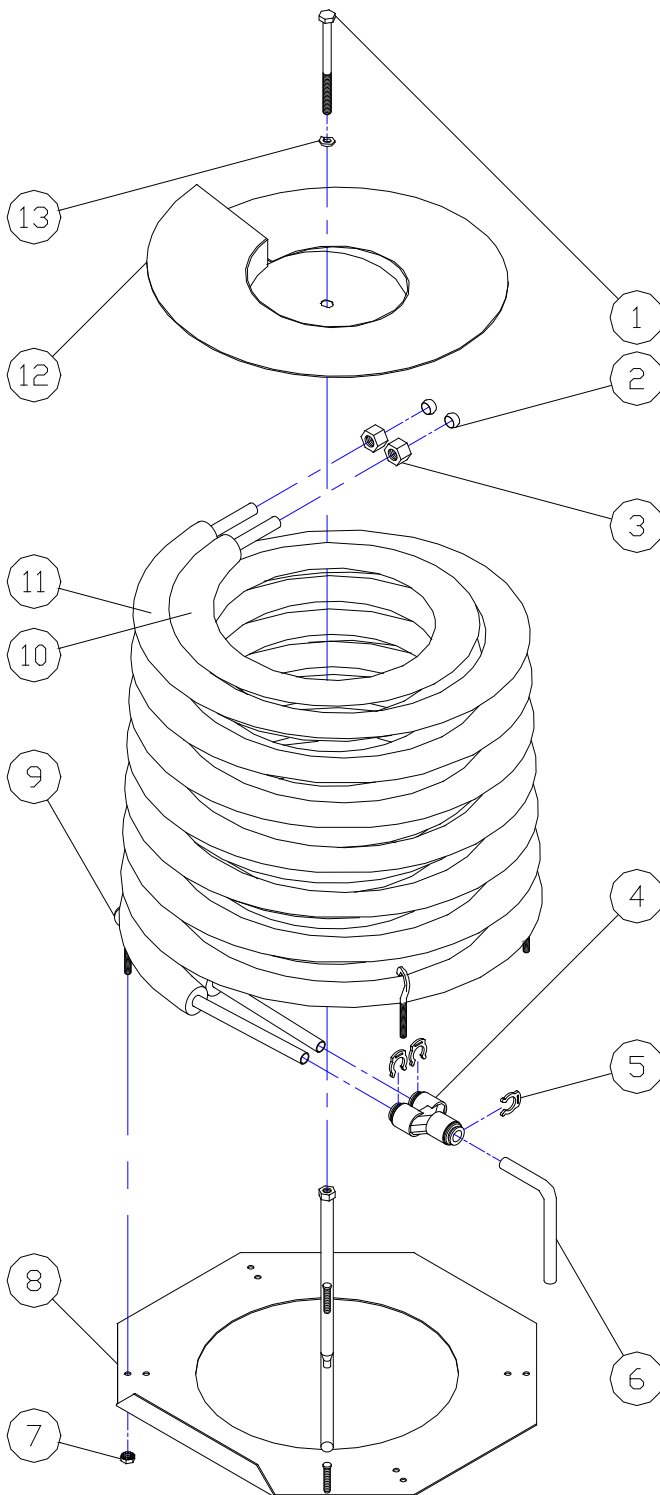
Electrical Panel Assembly, 45GPD



094156, Exploded Parts List Cooling Coils Assemblies, 45GPD

Item #	Part #	Description	Qty
1	014009	Capscrew, SS, 1/4"-20 X 3-1/2"	1
2	030012	Ferrule, Brass, 3/8" Compression	2
3	030013	Nut, Plated, 3/8" Compression	2
4	034017	Divider, 3/8", JG	1
5	034021	Locking Clip, 3/8", JG	3
6	520169	Tube, Adapter, Coil, CD	1
7	026004	Nut, Kep, 18-8 SS, #10-24UNC	4
8	520189	Coil Support WA, CD	1
9	520225	W.A., Coil Hook, #10 "	4
10	520171	Coil WA, Inner, CD	1
11	520170	Coil WA, Outer, CD	1
12	520188	Plate WA, Coil Top, CD	1
13	024000	Washer, Lock, SS, Helicoil, 1/4"	1

094156, Exploded Parts List Cooling Coils Assemblies, 45GPD

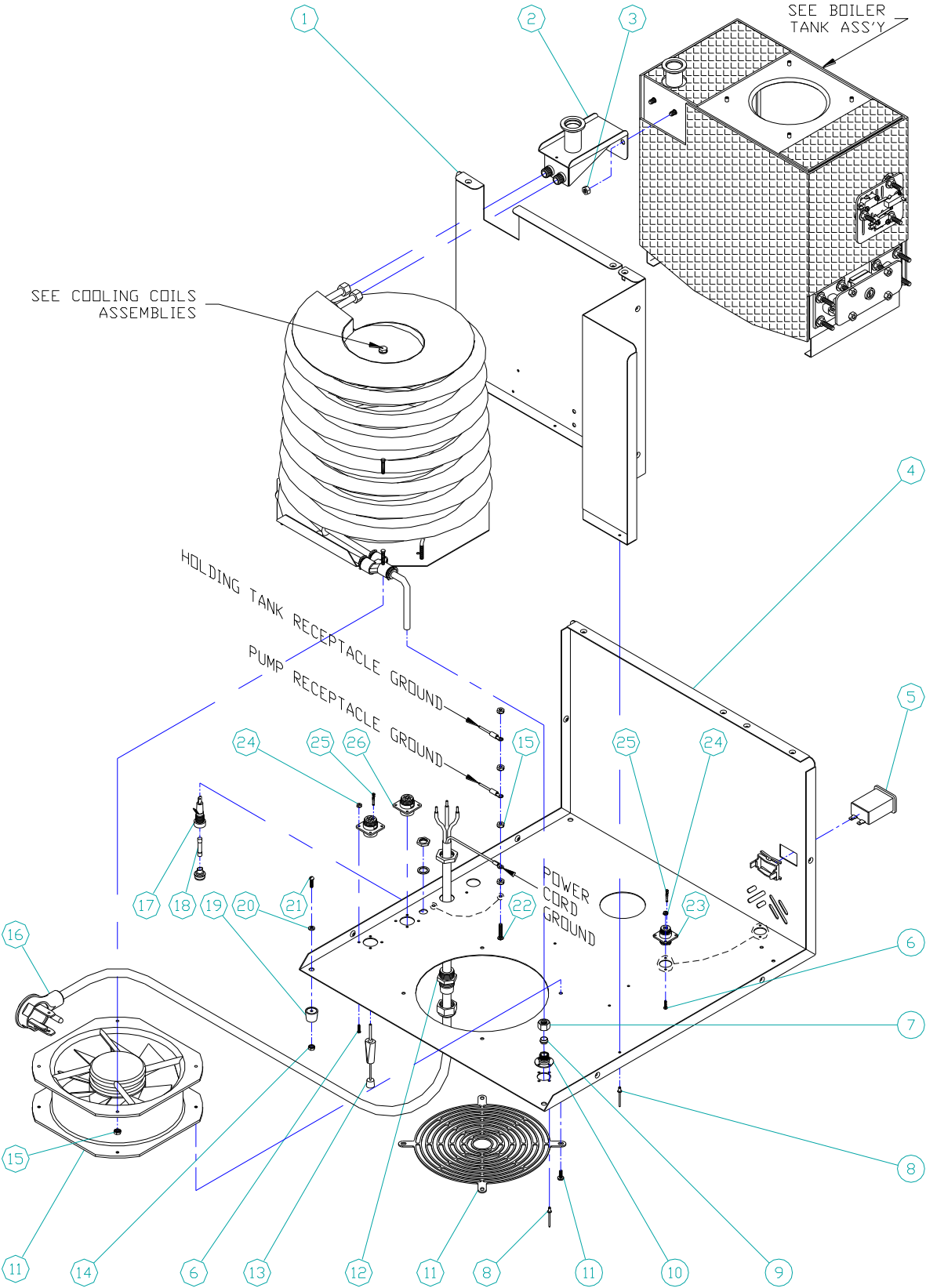


094152, Exploded Parts List

Distiller Body Assembly, 45GPD

Item #	Part #	Description	Qty
1	520123	Divider, CD	1
2	520120	Manifold WA, CD	1
3	025000	Nut, Hex, SS, 1/4"-20	2
4	520109	Body, Commercial Distiller	1
5	060070	Hour Meter, 5 Digit, 240V	1
6	012019	Scw, Mach, Pltd, #4-40 X 1/2", Rnd/Sk	6
7	030013	Nut, Pltd, 3/8" Compression	1
8	016004	Rivet, Aluminum, 1/8" X 5/16"	8
9	030012	Ferrule, Brass, 3/8" Compression	1
10	530344	MOUNT, WA, CC COMPRESSION	1
11	060069	Fan, Tubeaxial, 600CFM, 240V, W/Shield	1
12	054022	Strain Relief, LT Fitting, 1/2" Black	1
13	080135	Tool, Extraction, Circular Pin	1
14	026005	Nut, Kep, 18-8 SS, #8-32UNC	4
15	026004	Nut, Kep, 18-8 SS, #10-24UNC	8
16	520118	Power Cord Assembly, #10-4, CD	1
17	060036	Fuse Holder, Chassis, 15 Amp	1
18	060022	Fuse, 1 Amp, Slow Blow	1
19	054010	Leg, Plastic, 3/4" OD X 5/8" High	4
20	018017	Washer, Flat, SS, 0.203" X 0.375"	4
21	012012	Screw, Machine, Plated, #8-32 X 5/8"	4
22	012000	Screw, Machine, Plated, #10-24 X 1", Round	1
23	060130	Receptacle, 4 Pin, Circular	1
24	026007	Nut, Kep, 18-8 SS, #4-40UNC	6
25	060017	Pin, Female, Circular	12
26	060044	Receptacle, 7 Pin, Circular	2

094152, Exploded Parts List Distiller Body Assembly, 45GPD

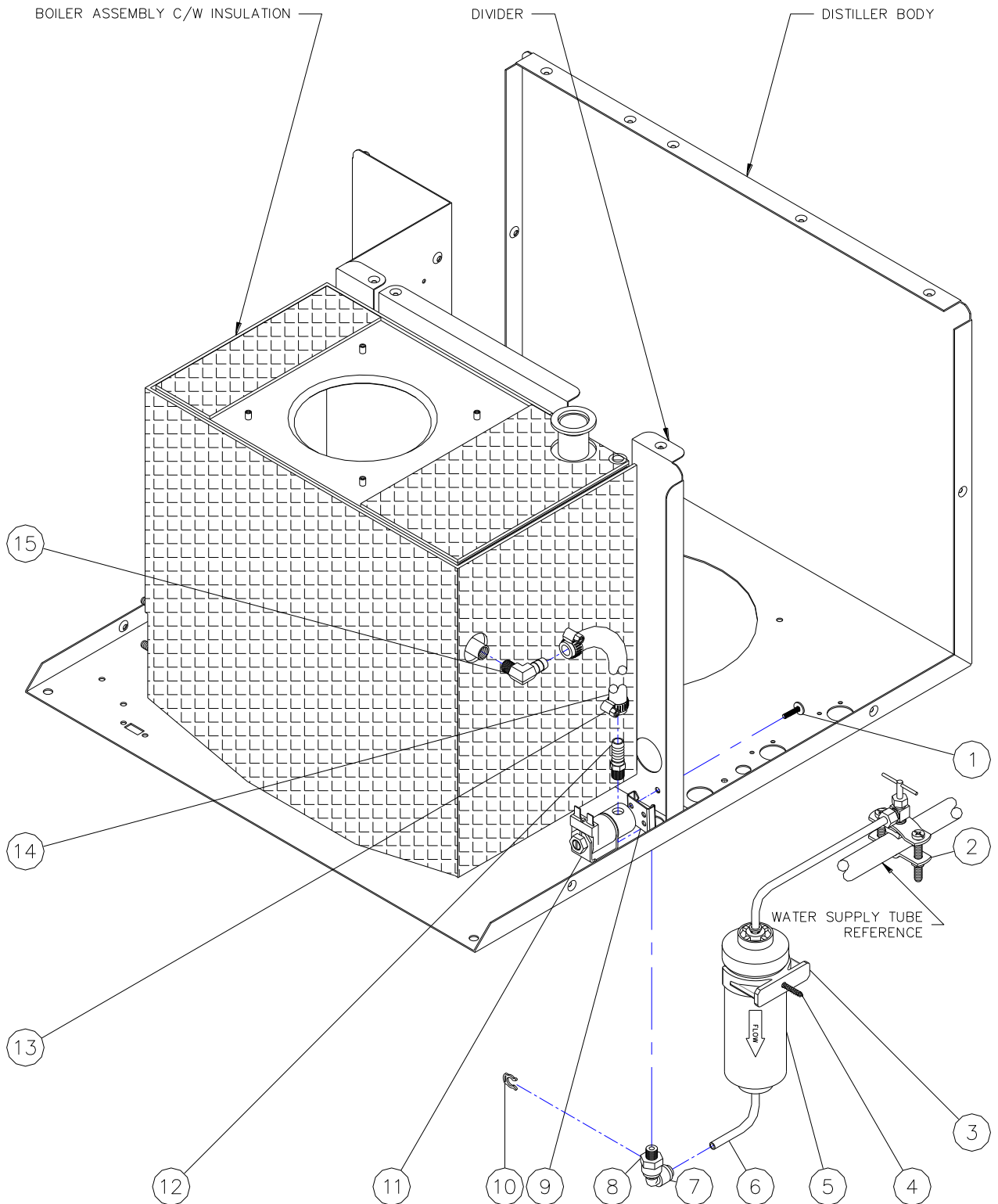


094153, Exploded Parts List

45GPD Solenoid Valve Assembly

Item #	Part #	Description	Qty
1	012012	Screw, Machine, Plated, #8-32 X 5/8", Round/Ph	2
2	036005	Valve, Self Piercing Kit	1
3	054073	Nylon Mounting Clip, Single, 2" Diameter	1
4	010008	Screw, Sheet Metal, Plated, #10-12 X 1", Pan Socket	1
5	080054	Filter, Sediment, CL6-RO, Red	1
6	052000	Tubing, LDPE, 1/4" X 0.170", PER FT	25'
7	034057	Gray Acetal Plug in Elbow, 1/4 Stem - 1/4Tube, JG	1
8	034054	Gray Acetal Male Connector 1/4 x 1/8 NPTF, JG	1
9	520224	Spacer, Brass Solenoid Valve, CD	1
10	034009	Locking Clip, 1/4", JG	1
11	060027	Valve, Solenoid, Black, 1/8"FPT BE 240V	1
12	034024	Coupler, Nylon, 1/8"MPT X 3/8"HB	1
13	080056	Clamp, Gear, 1/4" SS	2
14	052004	Tubing,Braided PVC,3/8"x .6	1'
15	030003	Elbow, 90 Degree, 1/8"MPT X 3/8"HB	1

094153, Exploded Parts List 45GPD Solenoid Valve Assembly

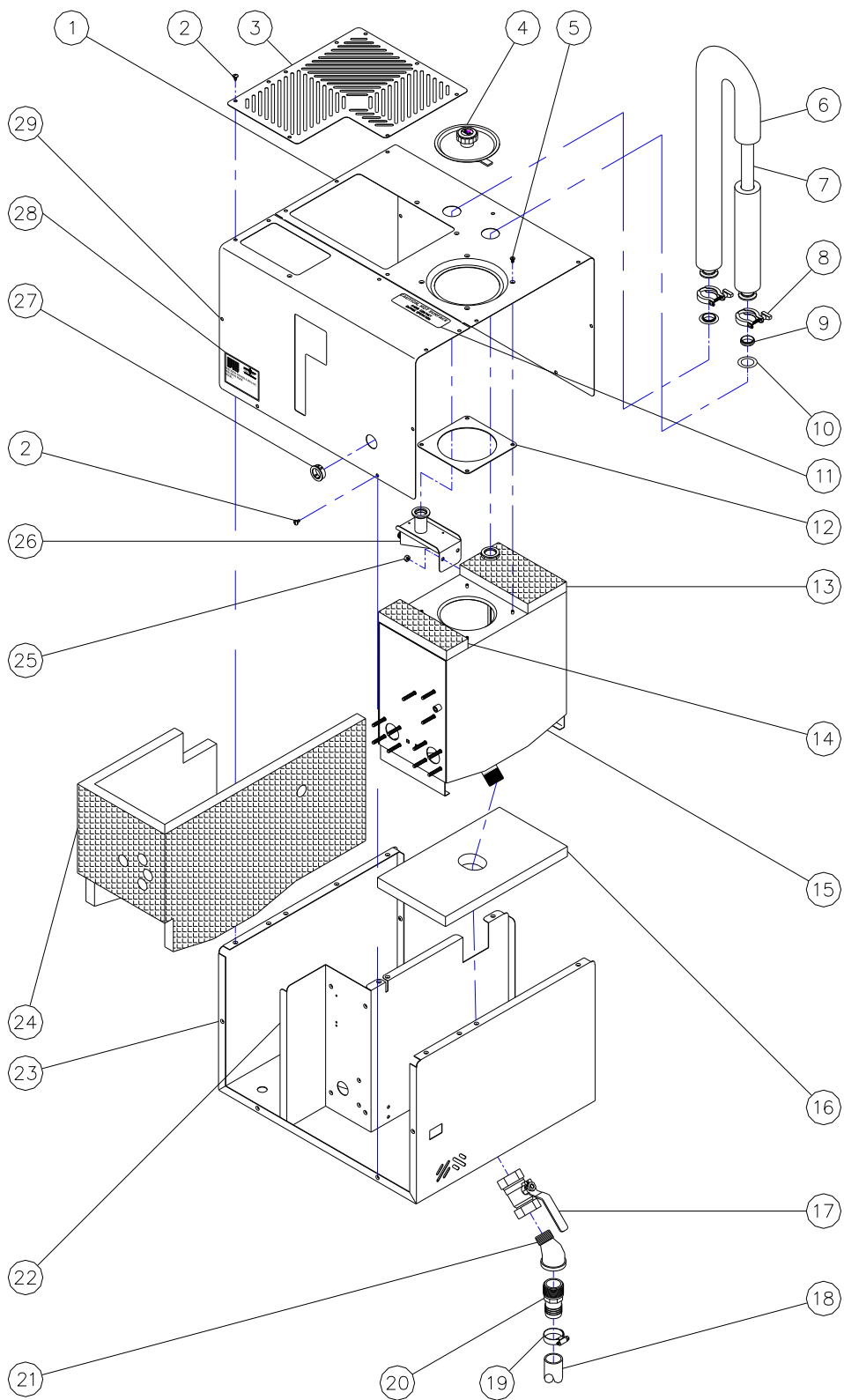


094154, Exploded Parts List

Distiller Head Assembly, 45GPD

Item #	Part #	Description	Qty
1	520125	Rear Cover, CD	1
2	010000	Screw, Sheet Metal, SS, #10-12 X ½"	24
3	520126	Grate, Vent, CD	1
4	500184	Lid Assembly, Boiling Tank	1
5	012008	Screw, Machine, SS, #10-24 X 3/8", Oval	4
6	080180	Insulation, Tube, 1-1/8" X 2-1/8"	4'
7	400123	Regular Tower WA, 200-L	1
8	080177	Clamp, Flange, W/Bolt & Knob	2
9	080175	Ring, Centering, 1" Round	2
10	080176	O-Ring, Flange	2
11	080119	Sheet,Imprintable Poly,Silver 8.5 x 11	0.25
12	500111	Gasket, Lid, PWS	1
13	520139	Insulation, CD, Boiler Top Rear	1
14	520140	Insulation, CD, Boiler Top Front	1
15	520105	Boiler Tank WA, CD	1
16	520137	Insulation, CD, Boiler Bottom	1
17	030024	Valve, 1-1/4" Ball, Brass, Full Flow	1
18	052008	Tubing, PVC, 1-1/4" X 1-1/2"	6'
19	080121	Clamp, Gear, 1-1/4", SS	1
20	034032	Coupler, 1-1/4"MPT X 1-1/4"HB	1
21	030025	Elbow, 45 Degree, 1-1/4"MPT X 1-1/4"FPT	1
22	520123	Divider, CD	1
23	520109	Body, CD	1
24	520138	Insulation, CD, Boiler Sides	1
25	025000	Nut, Hex, SS, ¼"-20	2
26	520120	Manifold WA, CD	1
27	054004	Bushing, Snap, 1.25" Hole	1
28	080120	Decal, Sht, PWS, Distillers	0.25
29	520124	Front Cover, CD	1

094154, Exploded Parts List Distiller Head Assembly, 45GPD



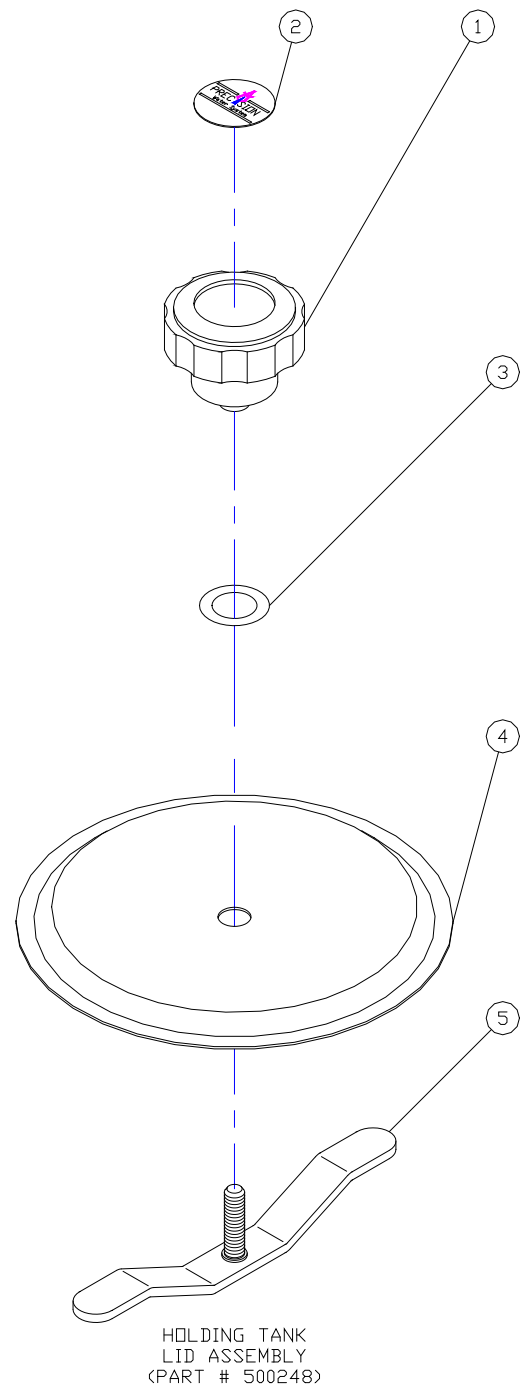
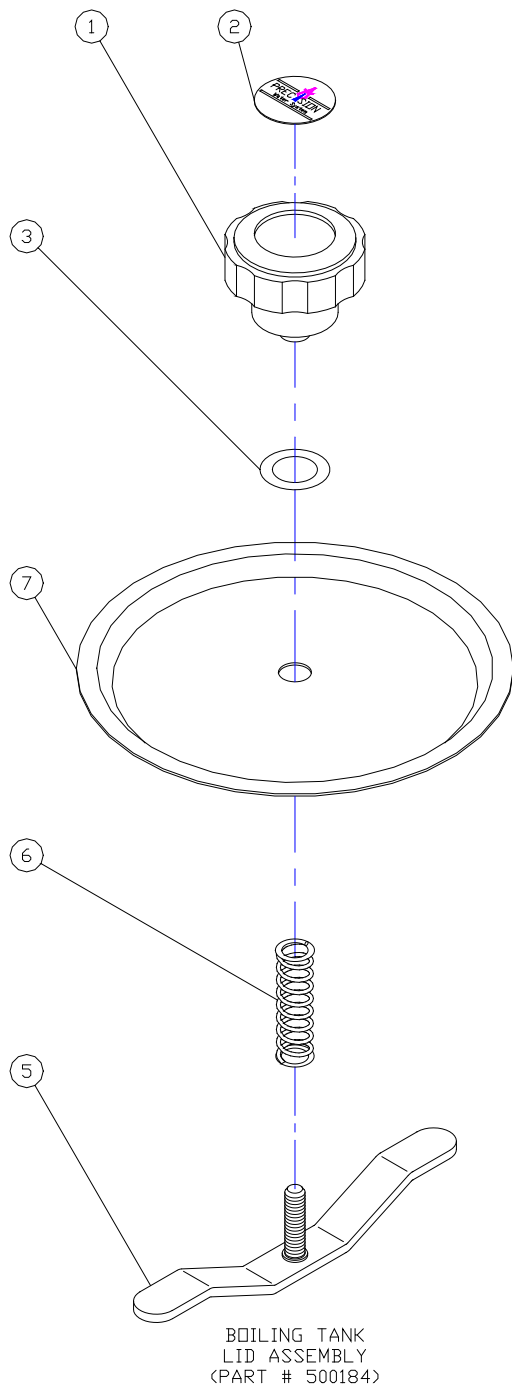
094074, Exploded Parts List

Boiling & Holding Tank Lids Assemblies, PWS

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, H/T, Disc, SS, 5.5"	1
5	500115	Tee Bar, Studded, 5.5"	2
6	080058	Spring, BT, Lid, SS	1
7	500118	Lid, B/T, Disc, SS, 5.5"	1

094074, Exploded Parts List

Boiling & Holding Tank Lids Assemblies, PWS



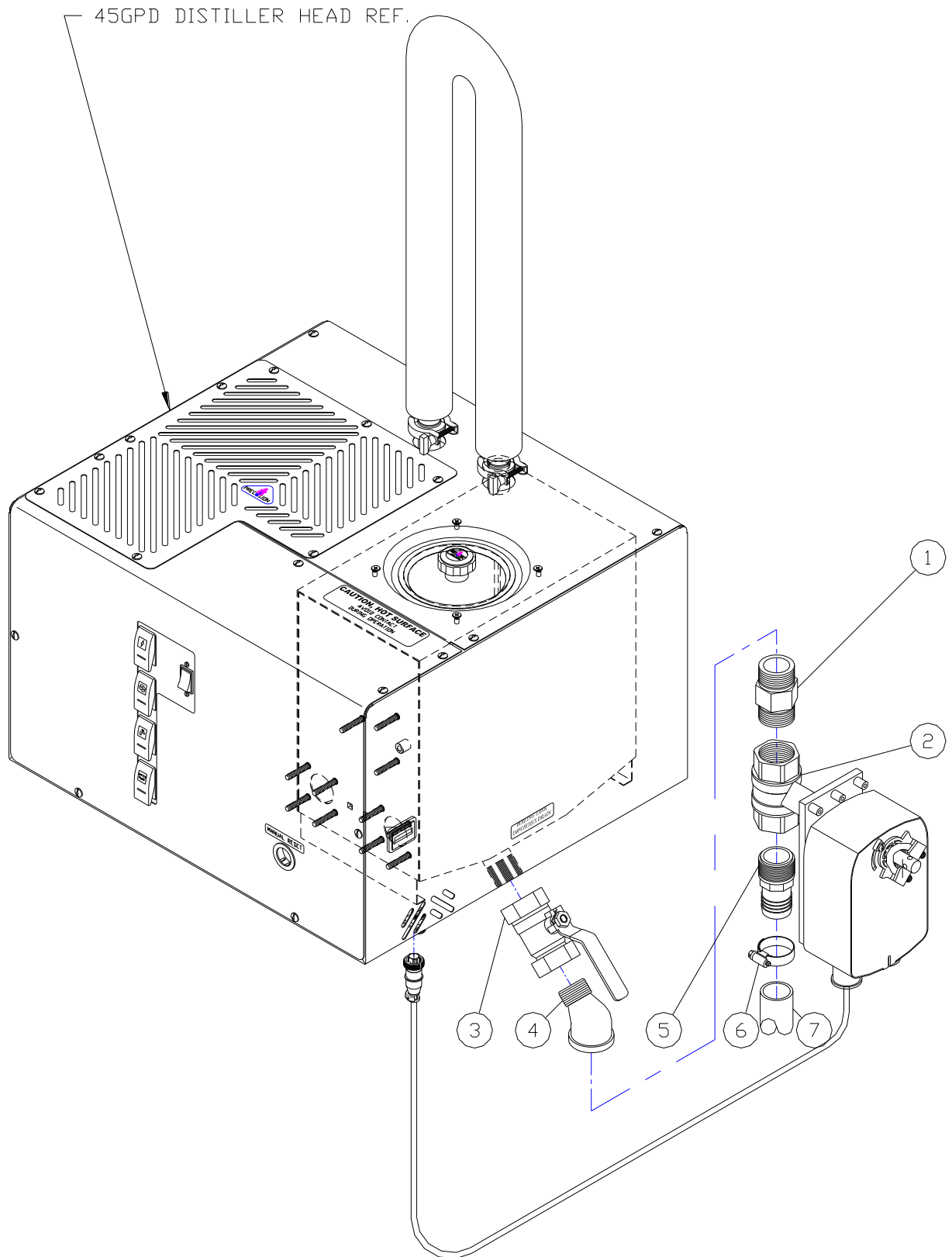
094157, Exploded Parts List

Automatic Electric Drain Assembly, AED-2

Item #	Part #	Description	Qty
1	030041	Nipple, Hex, 1-1/4"MPT Both Ends	1
2	520219	Motorized Ball Valve Ass'y, AED-2, S2, 230V	1
3	030024	Valve, 1-1/4" Ball, Brass, Full Flow	1
4	030025	Elbow, 45 Degree, 1-1/4"MPT X 1-1/4"FPT	1
5	030032	Coupler, 1-1/4"MPT X 1-1/4"HB	1
6	080121	Clamp, Gear, 1-1/4", SS	1
7	052008	Tubing, PVC, 1-1/4" X 1-1/2"	6'

094157, Exploded Parts List

Automatic Electric Drain Assembly, AED-2



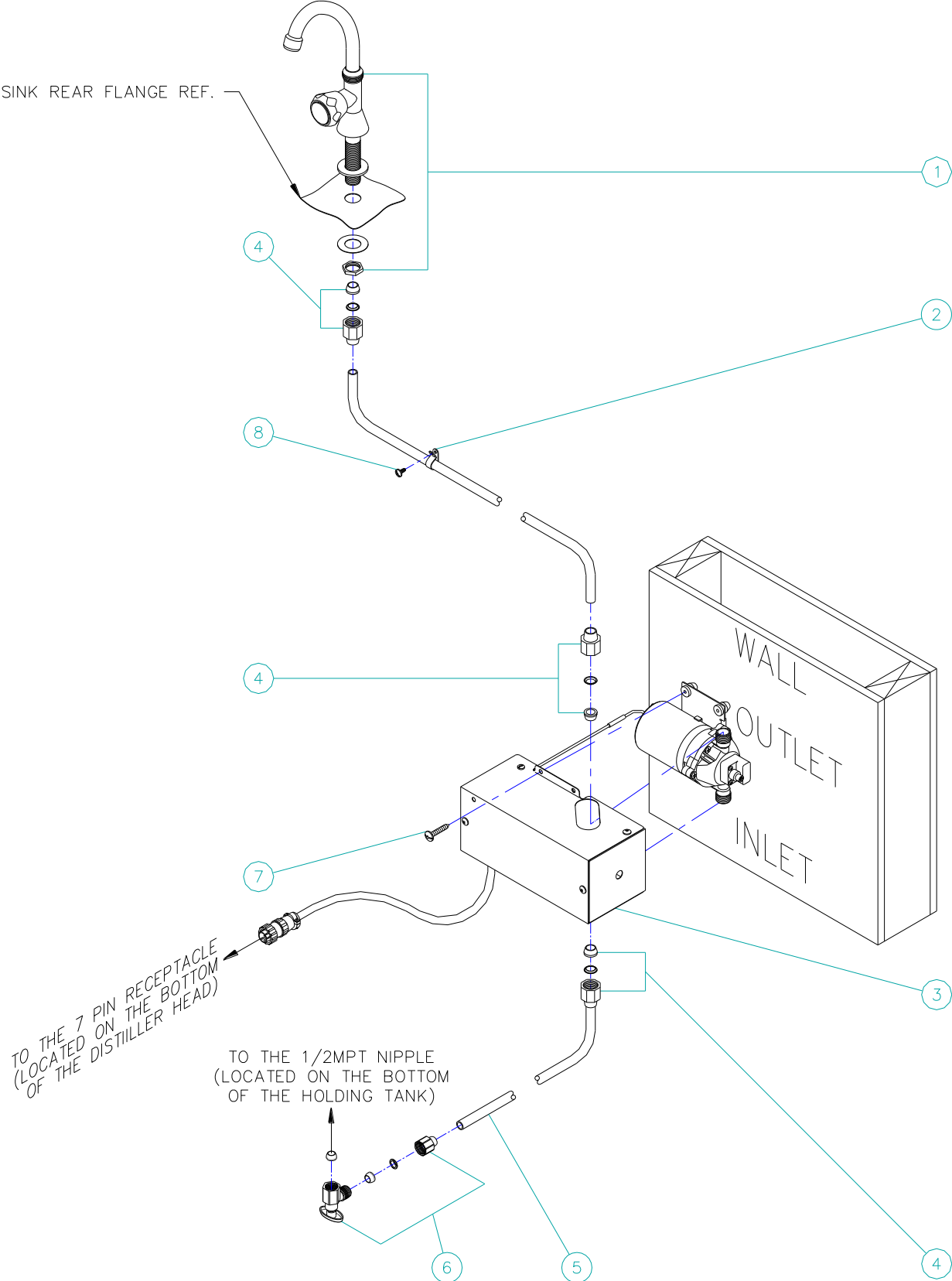
094158, Exploded Parts List Automatic Pump Assembly, APK-4

Item #	Part #	Description	Qty
1	080052	Faucet, Chrome	1
2	054006	Clamp, Cable, Nylon, ½"	8
3	520143	Pump Assembly, APK-4, 220V, 3GPM	1
4	034003	Nut/Ring/Ring Set, ½" OD	3
5	052001	Tubing, LDPE, 3/8" ID X ½" OD	25'
6	034028	Valve, ½"FPT X ½"OD Tube	1
7	010008	Screw, Sheet Metal, Plated, #10-12 X 1"	4
8	010002	Screw, Sheet Metal, Plated, #10-12 X ½", Trs/Skt	8

Note: Replacement pump assembly #520005.
Replacement pump kit #520004.

094158, Exploded Parts List

Automatic Pump Assembly, APK-4



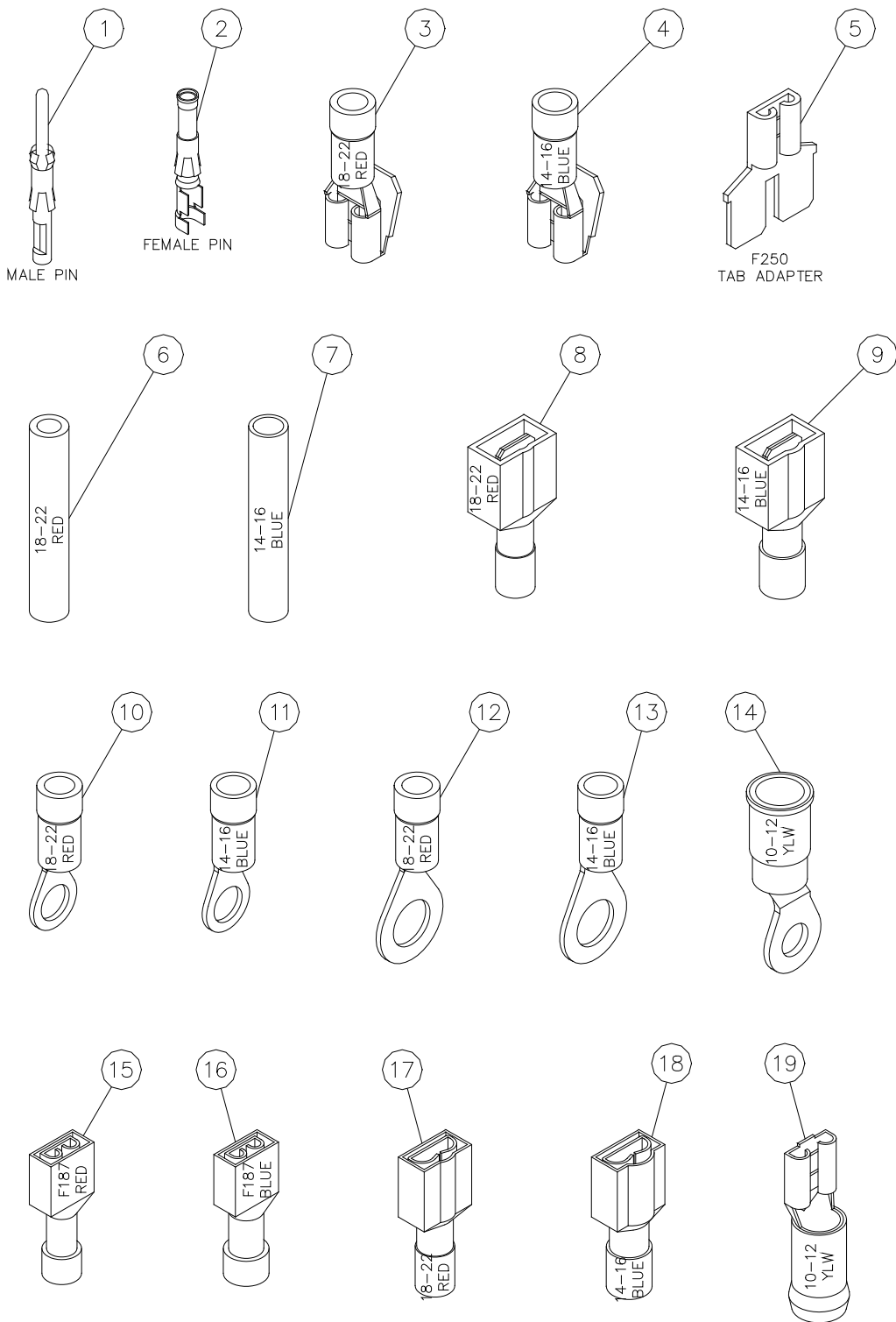
094109, Exploded Parts List

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 - PWS (45GPD Auto) Part # 520129-S8-							
				SERIES 8			
No.	Part#	Color	Ga	Length	From Conn.	To Conn.	To Location
1	520118	GRN	10	6"	#10RING#10-#12	POWER CORD	GROUND
2	520118	BLK	10	6"	#10RING#10-#12	POWER CORD	TERMINAL BLOCK #3
3	520118	WHT	10	6"	#10RING#10-#12	POWER CORD	TERMINAL BLOCK #2
4	520118	RED	10	6"	#10RING#10-#12	POWER CORD	TERMINAL BLOCK #1
5	095077	BLK	10	28"	#10RING#10-#12	#10RING#10-#12	BREAKER SWITCH 30A
6	095078	RED	10	28"	#10RING#10-#12	#10RING#10-#12	BREAKER SWITCH 30A
7	095079	BLK	10	10"	F250#10-#12	#10RING#10-#12	RELAY #4
8	095080	RED	10	10"	F250#10-#12	#10RING#10-#12	RELAY #8
9	095081	BLK	10	12"	F250#10-#12	#10RING#10-#12	RESET SWITCH #1
10	095082	WHT	10	5"	#10RING#10-#12	#10RING#10-#12	HEATING ELEMENT 1 A
11	095083	RED	10	11"	#10RING#10-#12	F250#10-#12	HEATING ELEMENT 1 B
12	095084	WHT	10	6"	#10RING#10-#12	#10RING#10-#12	HEATING ELEMENT 2 A
13	095085	BLK	10	7"	#10RING#10-#12	#10RING#10-#12	HEATING ELEMENT 2 B
14	095041	ORG	16	5"	F250#14-#16	#10RING#14-#16	HOURLMETER
15	095042	BRN	16	5"	F250#14-#16	#10RING#14-#16	HOURLMETER
16	095043	BRN	16	14"	#10RING#14-#16	#10RING#14-#16	RESET SWITCH #3
17	095044	BLK	16	19"	F250#14-#16	#10RING#14-#16	TERMINAL BLOCK #3 BLK
18	095045	RED	16	13"	F250#14-#16	#10RING#14-#16	TERMINAL BLOCK #9 RED
19	095046	BRN	16	12"	F187#14-#16	F250#14-#16	LOWER MICROSWITCH NC
20	095047	ORG	16	13"	BARE	PIGG	FAN MOTOR-N
21	095048	GRN	16	27"	PIGG	PIGG	SOLENOID VALVE A
22	095049	WHT	16	10"	FPIN	F250#14-#16	HOLDING TANK RECEPTACLE #2
23	095050	BRN	16	33"	F250#14-#16	F250#14-#16	WATER SWITCH #6
24	095051	BLU	16	20"	F250#14-#16	BARE	FAN SWITCH #3
25	095052	GRN	16	17"	F250#14-#16	F250#14-#16	HEATER SWITCH #2
26	095053	BLK	16	14"	F250#14-#16	F250#14-#16	WATER SWITCH #2
27	095054	BRN	16	13"	F250#14-#16	F250#14-#16	PUMP SWITCH #2
28	095055	ORG	16	30"	FPIN	F250#14-#16	HOLDING TANK RECEPTACLE #1
29	095056	ORG	16	14"	F250#14-#16	F187#14-#16	HEATER SWITCH #3
30	095040	BLK	16	5"	F250#14-#16	PIGG	FAN SWITCH #2
31	095057	YLW	16	16"	F250#14-#16	F187#14-#16	WATER SWITCH #3
32	095040	BLK	16	5"	F250#14-#16	PIGG	HEATER SWITCH #7
33	095058	BLK	16	29"	FPIN	F250#14-#16	HOLDING TANK RECEPTACLE #4
34	095059	YLW	16	10"	F250#14-#16	PIGG	FAN SWITCH #7
35	095060	BLK	16	7"	PIGG	FPIN	FUSE SIDE
36	095061	YLW	16	5"	FPIN	F250#14-#16	HOLDING TANK RECEPTACLE #5
37	095062	BLU	16	29"	F250#14-#16	FPIN	TERMINAL BLOCK #11 RED
38	095063	GRN	16	4"	FPIN	#10RING#14-#16	HOLDING TANK RECEPTACLE #7
39	095064	GRN	16	7"	FPIN	#10RING#14-#16	PUMP RECEPTACLE #7
40	095190	GRN	16	42"	FPIN	#10RING#14-#16	4 PIN RECEPTACLE #4 AUTO DRAIN
41	095066	YLW	16	14"	F250#14-#16	F250#14-#16	HEATER SWITCH #8
42	095010	WHT	16	3"	PIGG	F250#14-#16	HEATER SWITCH #3
43	095010	WHT	16	3"	PIGG	F250#14-#16	FAN SWITCH #3
44	095086	BLU	16	7"	F250#14-#16	F250#14-#16	WATER SWITCH #7
45	095067	RED	16	14"	PIGG	F187#14-#16	WATER SWITCH #6
46	520174	GRN	18	10"	MPIN	#1/4RING#18-#22	HOLDING TANK PLUG #7
47	095069	WHT	16	14"	F250#14-#16	F250#14-#16	TERMINAL BLOCK #12 RED
48	095070	BLU	16	30"	F250#14-#16	F250#14-#16	FUSE SIDE
49	095040	BLK	16	5"	F250#14-#16	PIGG	FAN SWITCH #8
50	095040	BLK	16	5"	F250#14-#16	PIGG	WATER SWITCH #8
51	095040	BLK	16	5"	F250#14-#16	PIGG	PUMP SWITCH #8
52	520174	ORG	18	10"	F187#18-#22	MPIN	HT MICROSWITCH NC
53	520174	WHT	18	10"	F187#18-#22	MPIN	HT MICROSWITCH COM
54	520174	BLK	18	10"	F187#18-#22	MPIN	PUMP #1 MICROSWITCH NO
55	520174	YLW	18	10"	F187#18-#22	MPIN	PUMP #1 MICROSWITCH COM
56	520174	BLU	18	10"	F187#18-#22	MPIN	PUMP #2 MICROSWITCH COM
57	520174	RED	18	10"	F187#18-#22	MPIN	PUMP #2 MICROSWITCH NO
58	095087	RED	16	6"	FPIN	FPIN	PUMP RECEPTACLE #6
59	095189	BRN	16	27"	FPIN	#10RING#14-#16	4 PIN RECEPTACLE #3 AUTO DRAIN
60	095188	BLK	16	21"	FPIN	PIGG	4 PIN RECEPTACLE #2 AUTO DRAIN

520129, Exploded Parts List

Wiring Diagram-Precision Pure, 45-75

