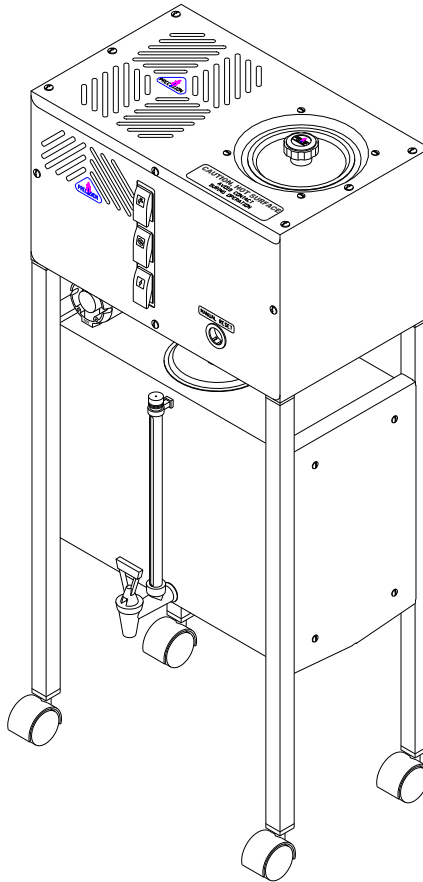




# REPLACEMENT PARTS MANUAL

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 | 0002   | 0002   | 0001   | 0001   | 0001   | 0001   |



*MODEL PWS 8-8*

## PRECISION WATER SYSTEMS WATER DISTILLER

MANUFACTURED BY:  
PRECISION DESIGN & MANUFACTURING INC.  
10331 - 105<sup>th</sup> STREET  
WESTLOCK, ALBERTA, CANADA, T7P 2H7  
e-mail: [info@Precisioncanada.com](mailto:info@Precisioncanada.com)  
PHONE (780) 349-4933  
FAX (780) 349-4957



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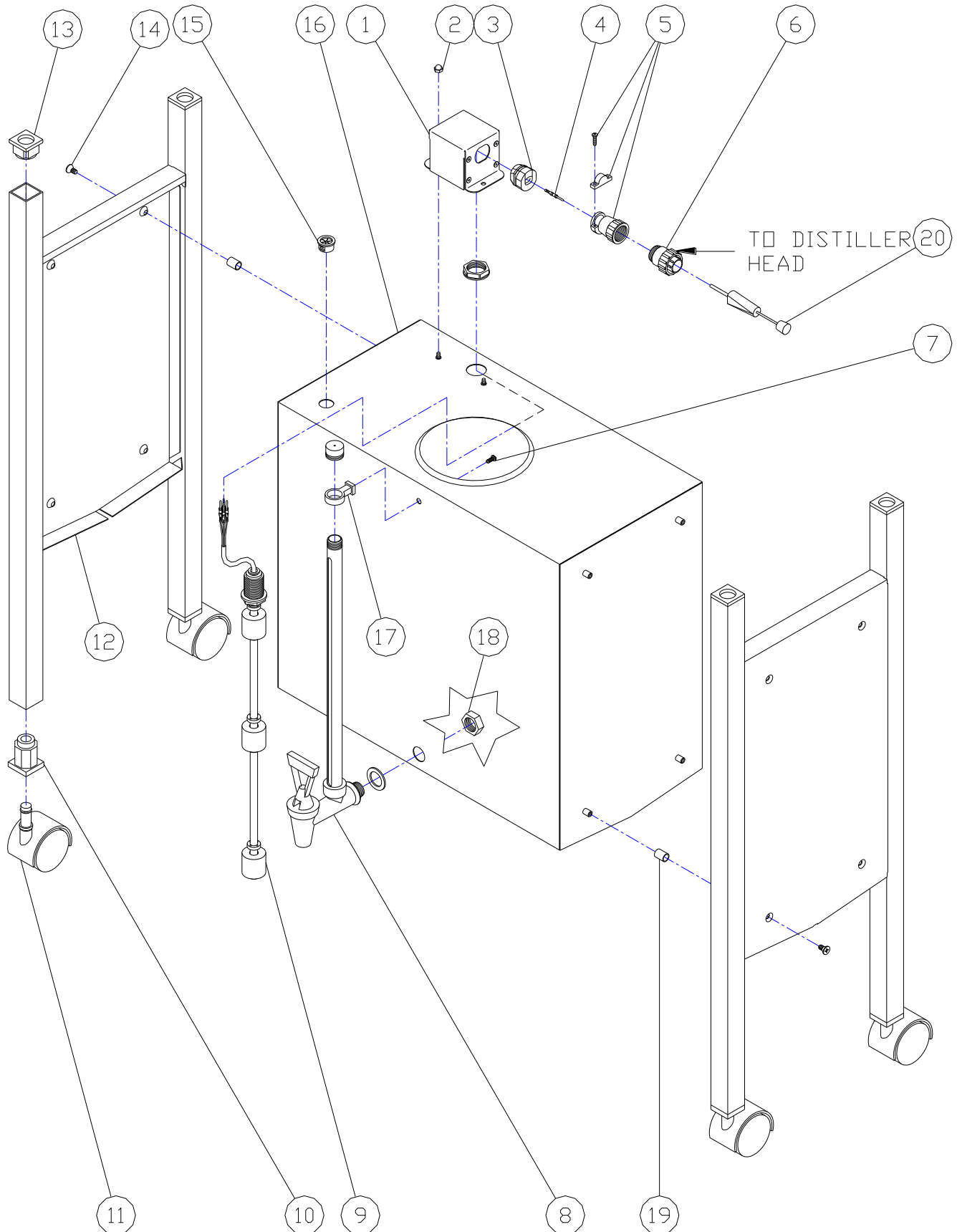
|                                                       | <u>Page</u> |
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| 2. 094110 Boiler Assembly, 8GPD Automatic             | 6 & 7       |
| 3. 094075 Distiller Body Assembly, 8GPD Automatic     | 8 & 9       |
| 4. 094070 8GPD Solenoid Valve Assembly                | 10 & 11     |
| 5. 094076 Distiller Head Assembly, 8GPD Automatic     | 12 & 13     |
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| 10. 500247 Wiring Schematic                           | 22 & 23     |

## 094093, Exploded Parts List

### Holding Tank Assembly, 8-8 Automatic

| <b>Item #</b> | <b>Part #</b> | <b>Description</b>                                 | <b>Qty</b> |
|---------------|---------------|----------------------------------------------------|------------|
| 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"<br>(includes nut, washer & support) | 1          |
| 9             | 500255        | HT 16" Level Sensor Assembly                       | 1          |
| 10            | 054014        | Socket, 1" Sq, Stem Mt, Castor                     | 4          |
| 11            | 054013        | Castor, 2" Twin Wheel, Stem Mt                     | 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



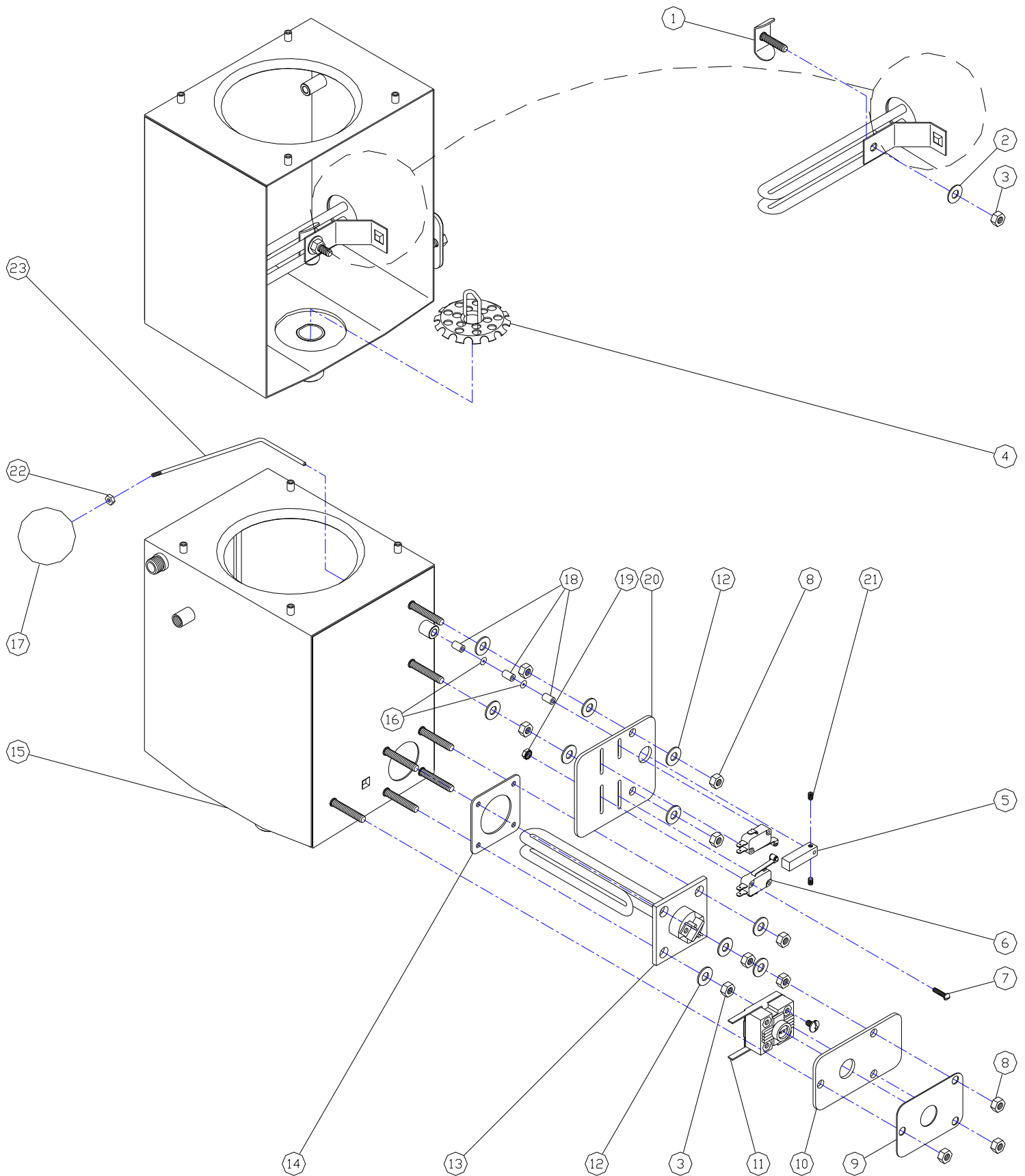
## 094110, Exploded Parts List

### Boiling Tank Assembly, PWS, 8GPD Automatic

| <b>Item #</b> | <b>Part #</b> | <b>Description</b>                       | <b>Qty</b> |
|---------------|---------------|------------------------------------------|------------|
| 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            | 2          |
| 7             | 012003        | Screw, Machine, Plated, #4-40 x 3/4"     | 4          |
| 8             | 025002        | Nut, Hex, 1/4" Plated                    |            |
| 7             |               |                                          |            |
| 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         | 10         |
| 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            | 080128        | O-Ring, 1/16" x 1/8" x 1/4"              | 2          |
| 17            | 080117        | Float Ball, SS, 2" Round, #6-32          | 1          |
| 18            | 080127        | Bushing, Nylon                           | 3          |
| 19            | 026003        | Nut, Kep, #4-40                          | 4          |
| 20            | 500266        | Plate, Microswitch                       | 1          |
| 21            | 016014        | Set Screw, Black, #6-32 X 0.25", Cup Pt. | 2          |
| 22            | 025007        | Nut, Hex, SS, #6-32                      | 1          |
| 23            | 500264        | Rod, Boiler Float                        | 1          |

# 094110, Exploded Parts List

## Boiling Tank Assembly, PWS, 8GPD Automatic



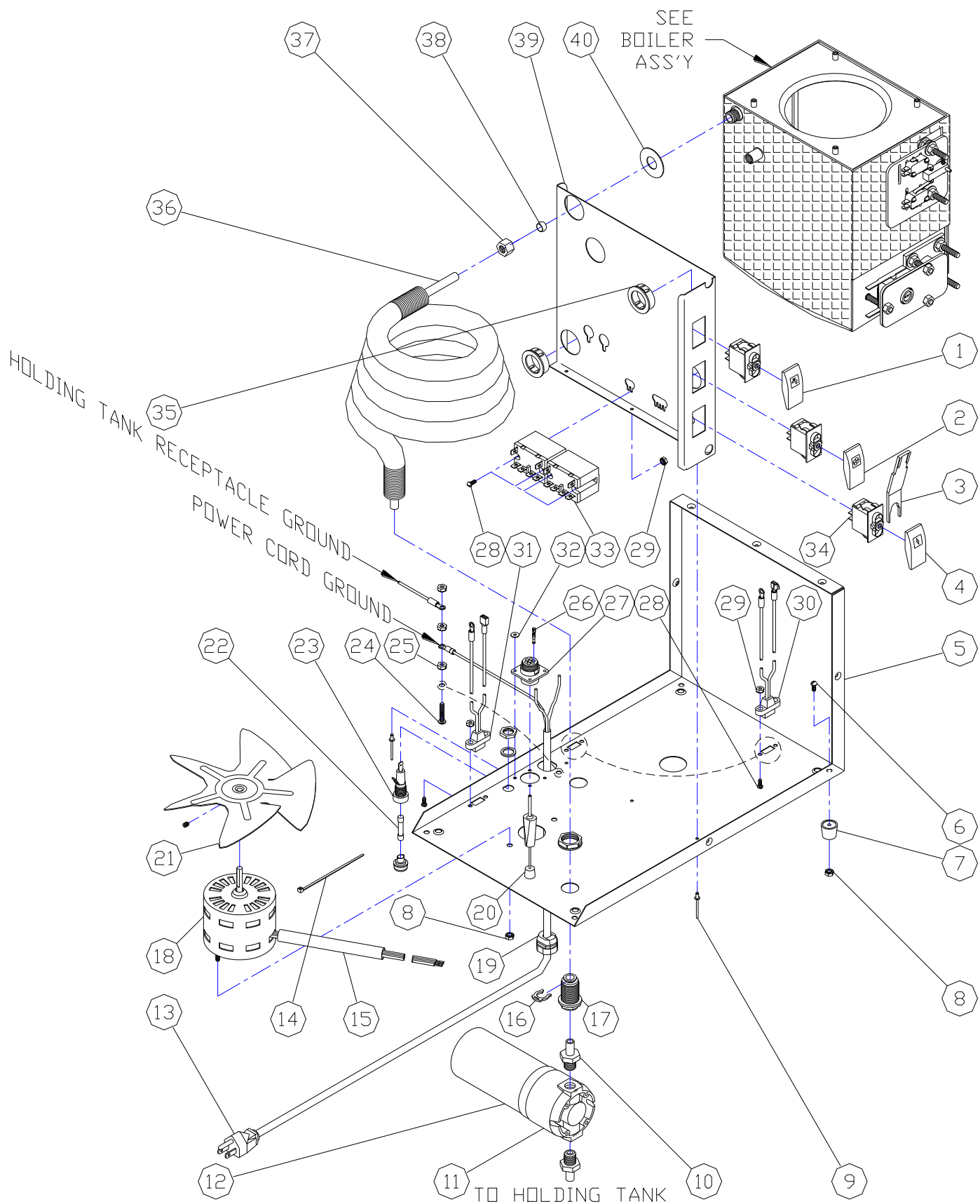
## 094075, Exploded Parts List

### 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

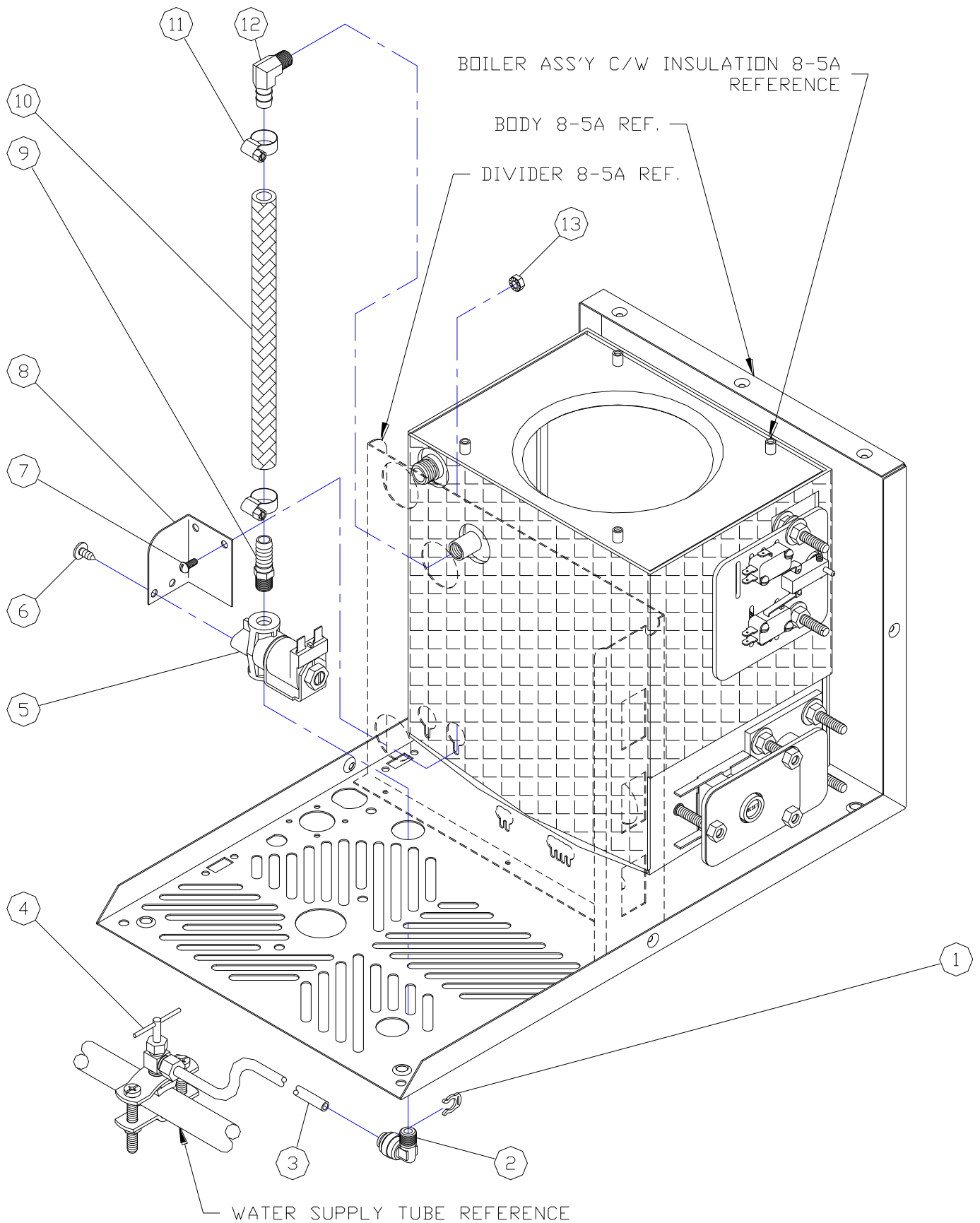
## Distiller Body Assembly, PWS, 8GPD Automatic



## 094070, Exploded Parts List 8GPD Solenoid Valve Assembly

| <b>Item #</b> | <b>Part #</b> | <b>Description</b>              | <b>Qty</b> |
|---------------|---------------|---------------------------------|------------|
| 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", Pltd.  | 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

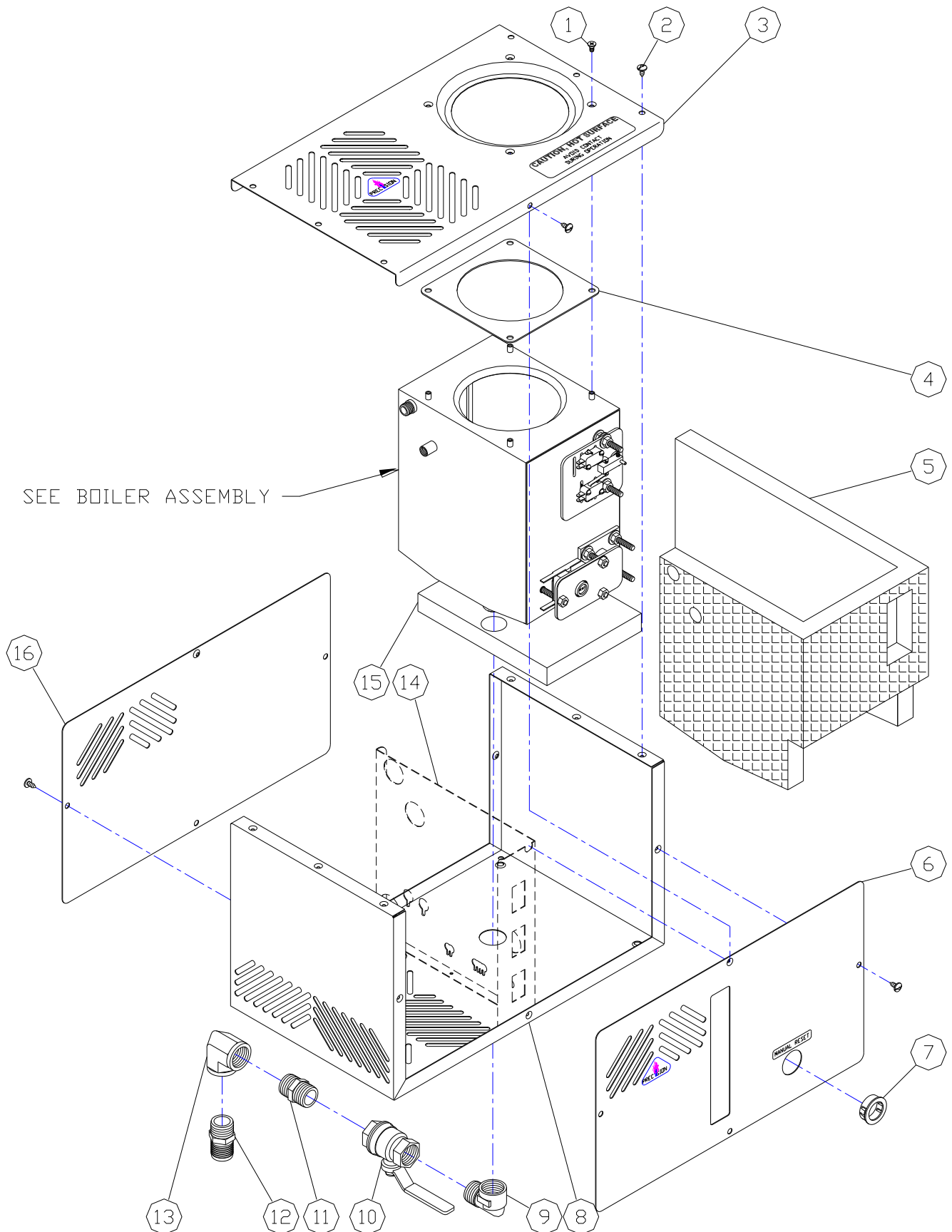


## 094076, Exploded Parts List

### Distiller Head Assembly, PWS, 8GPD Automatic

| <b>Item #</b> | <b>Part #</b> | <b>Description</b>                 | <b>Qty</b> |
|---------------|---------------|------------------------------------|------------|
| 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 Boil. 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 BE                | 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

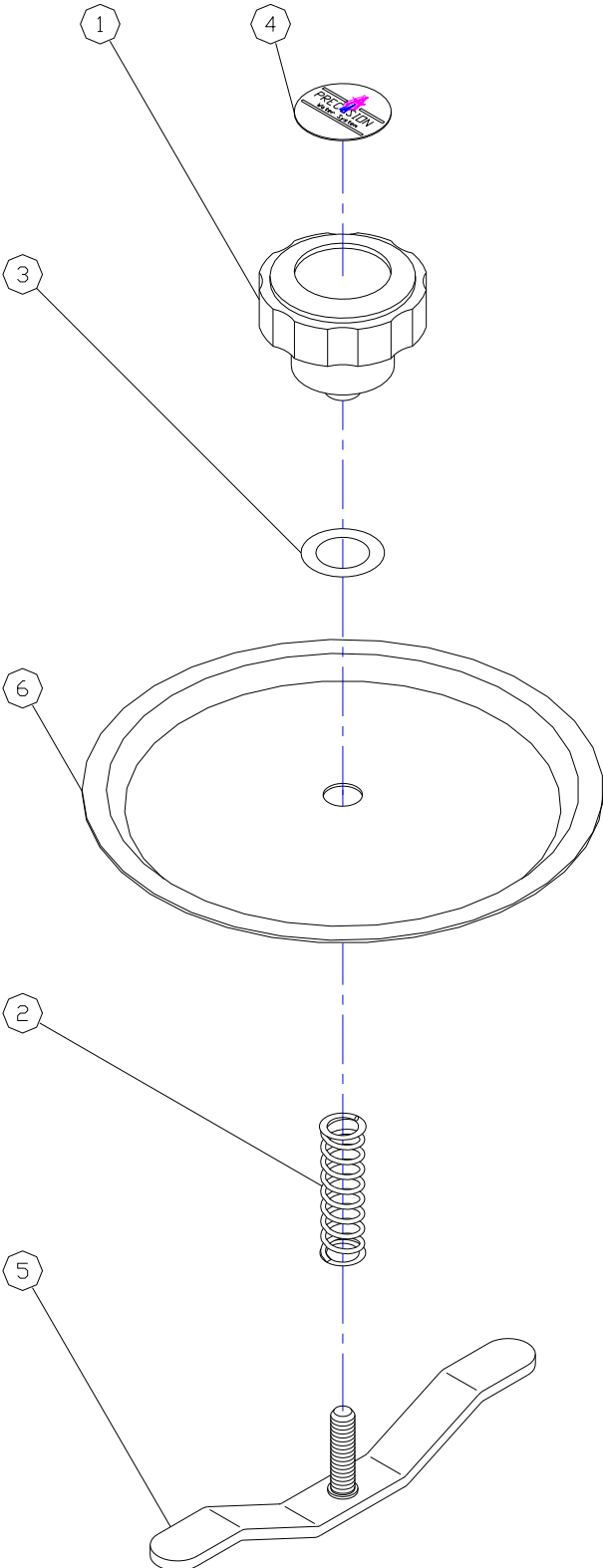


## 094074, Exploded Parts List

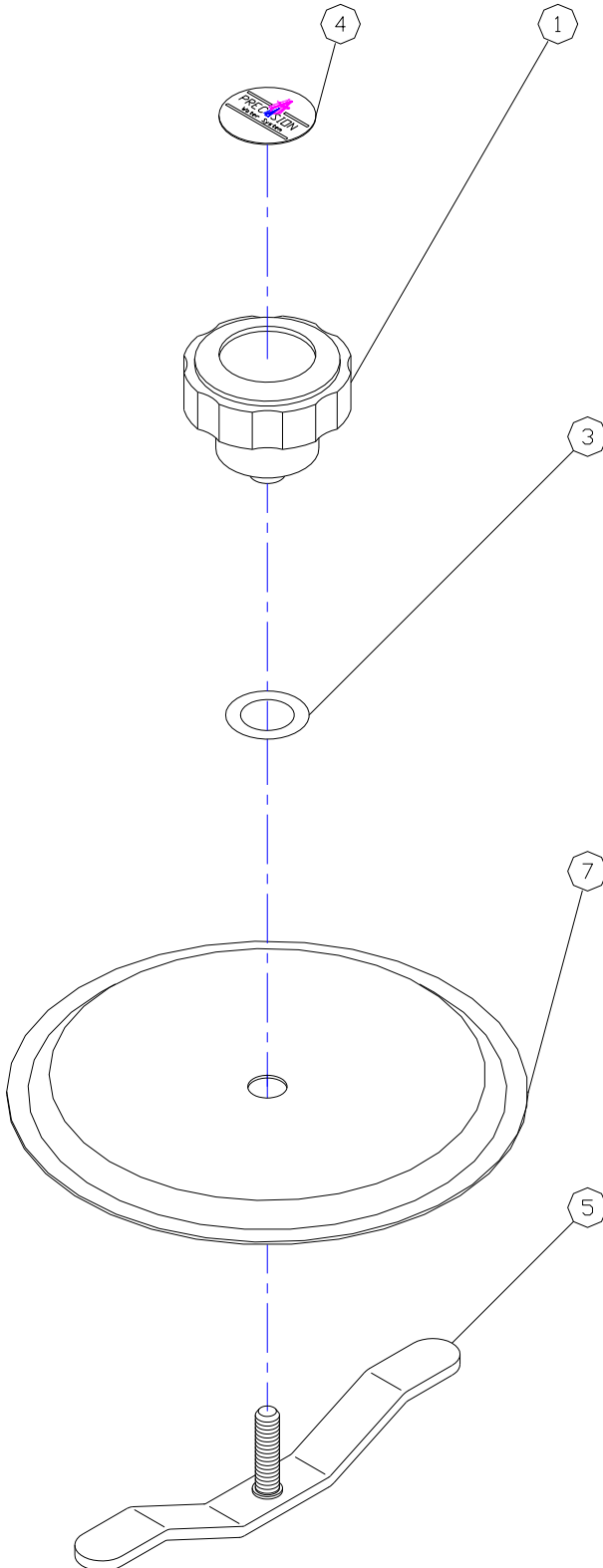
### Boiling Tank & Holding Tank Lids Assemblies

| 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)

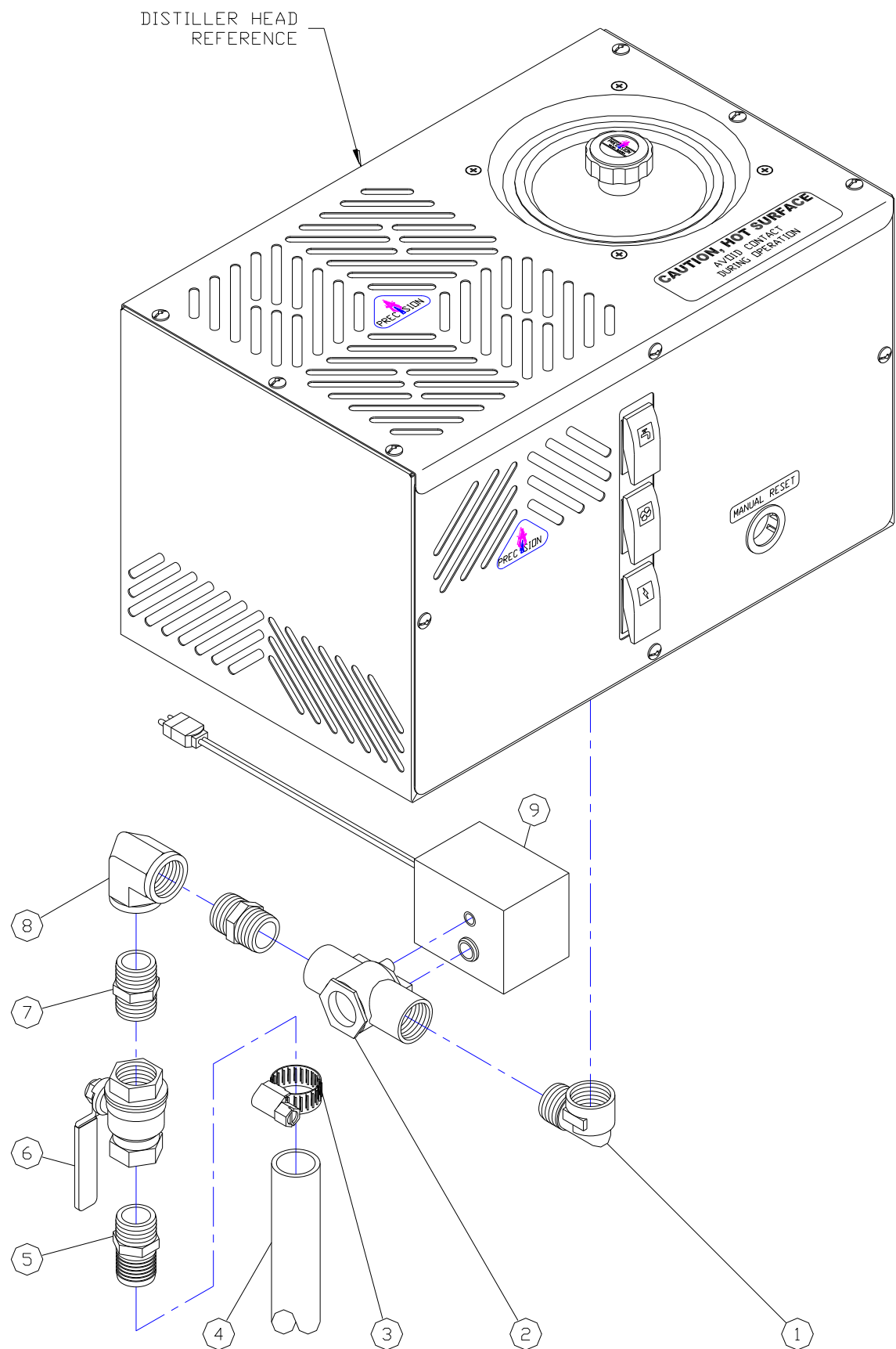
## 094071, Exploded Parts List

### Automatic Electric Drain Assembly, AED-1

| <b>Item #</b> | <b>Part #</b> | <b>Description</b>                   | <b>Qty</b> |
|---------------|---------------|--------------------------------------|------------|
| 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 Assembly, W/Cord, 120V | 1          |
|               | 500311        | PWS AED Motor Assembly, W/Cord, 240V | 1          |

# 094071, Exploded Parts List

## Automatic Electric Drain Assembly, AED-1

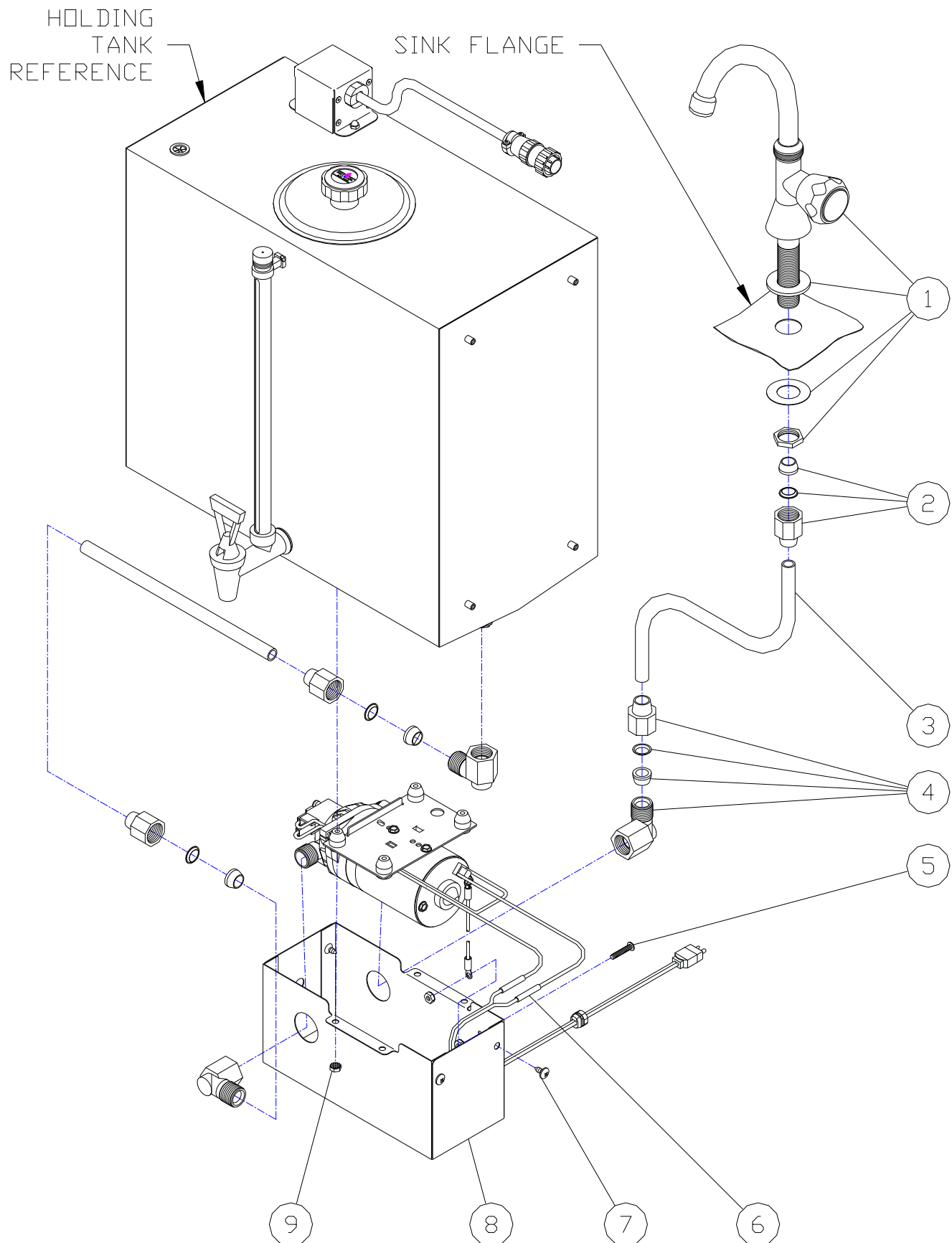


## 094094, Exploded Parts List

### Automatic Pump Assembly, APK-1

| <b>Item #</b> | <b>Part #</b> | <b>Description</b>                 | <b>Qty</b> |
|---------------|---------------|------------------------------------|------------|
| 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

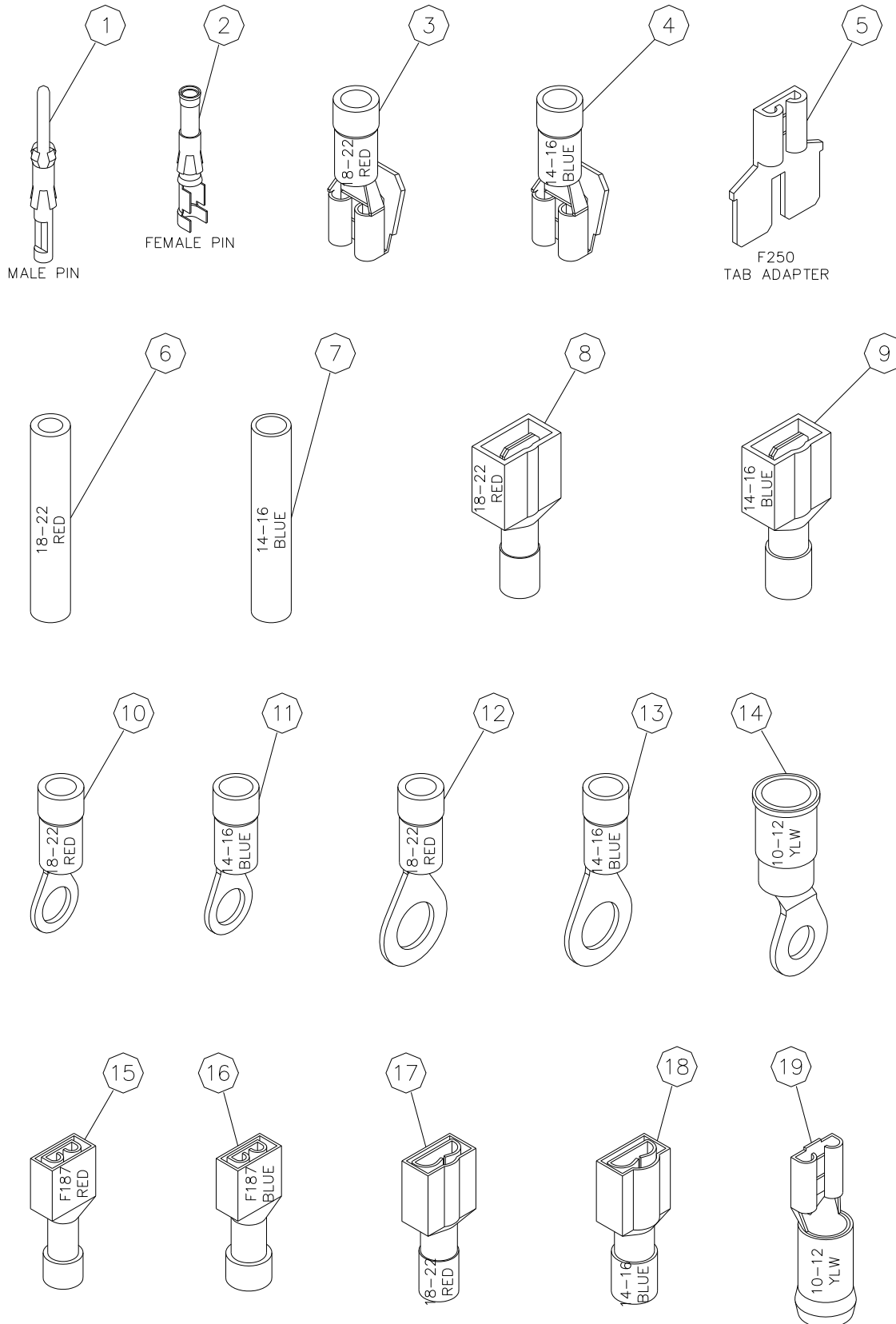


## 094109, Exploded Parts List Electrical Terminals

| 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 Pure 8-8 (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"     | F250 #14-#16        | PIGG                | 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

