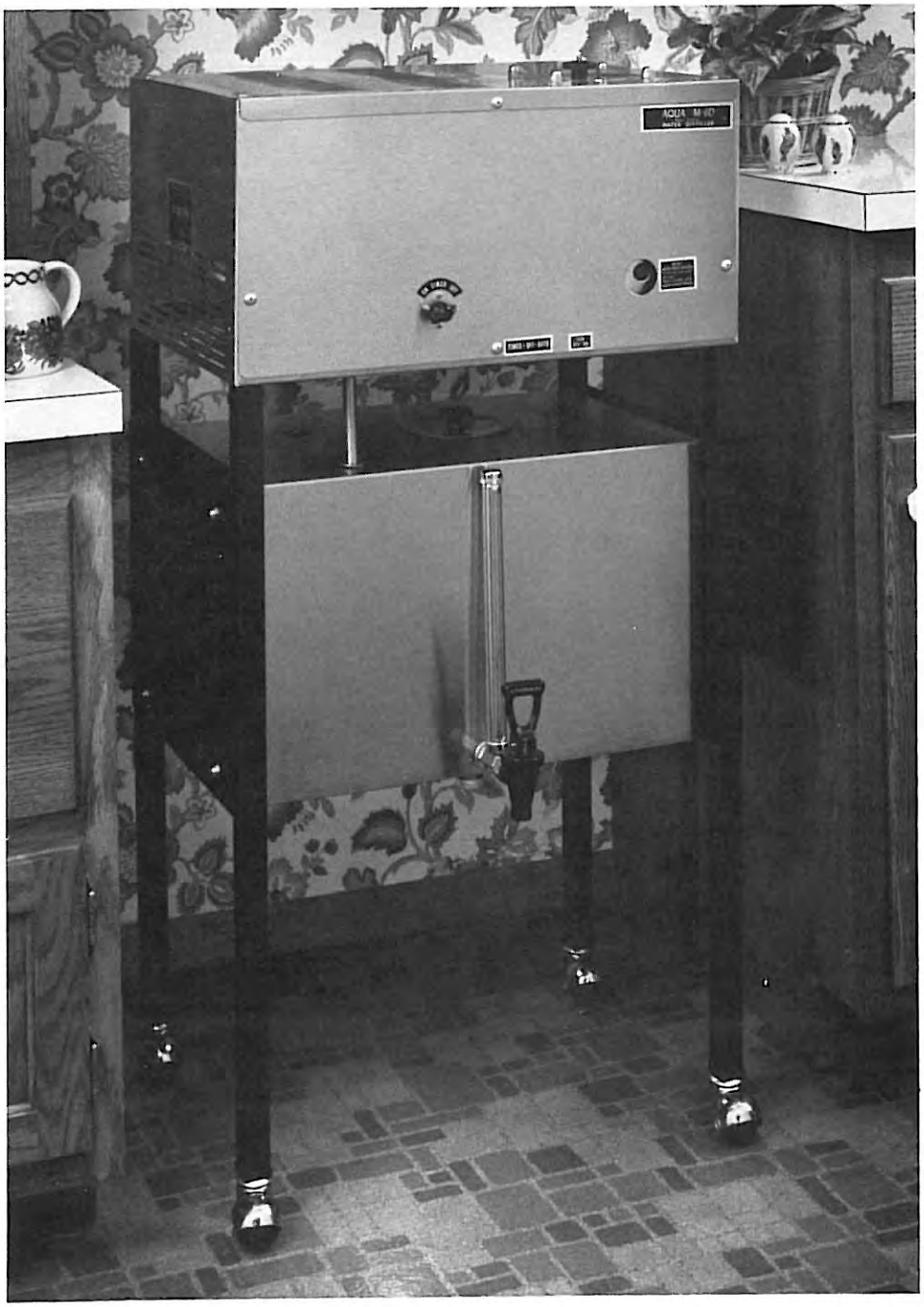
Aqua Still D™

INSTRUCTIONS FOR ASSEMBLY AND OPERATION



PureWater Inc.™
3725 TOUZALIN / BOX 83226 / LINCOLN, NEBRASKA 68501 / 402-467-2577

Model and serial number may be found at the left-hand side of the base.

You should record both model and serial number below for future use.

Model: _____

Serial Number: _____

1) PLEASE READ ALL INSTRUCTIONS THOROUGHLY BEFORE ASSEMBLING AND OPERATING YOUR NEW UNIT. KEEP THESE INSTRUCTIONS FOR FUTURE USE.

2) It is important to fill out and return the warranty card which is included with your instructions. This information is very helpful to us should you ever need parts or repairs for your machine.

3) Your distiller has been checked at the factory for leaks, proper working procedure, etc. Therefore, it may have a water ring.

4) The tank is heliarc welded and as you distill water, the mineral content may cling to the heliarc weld and will appear to be rust. This is T-304 Stainless Steel and what may appear to be rust is the mineral content clinging to the seams.

5) DO NOT subject your unit to misuse or abuse. Proper cleaning is very important and instructions are included as a part of this booklet.

6) When some people start drinking distilled water, they seem to think it has a taste; usually, this is not taste but a lack of taste. The taste buds will become accustomed to this the same as they did to the water in your area.

7) PLEASE GIVE CLOSE ATTENTION TO THE FOLLOWING ELECTRICAL PRECAUTIONS:

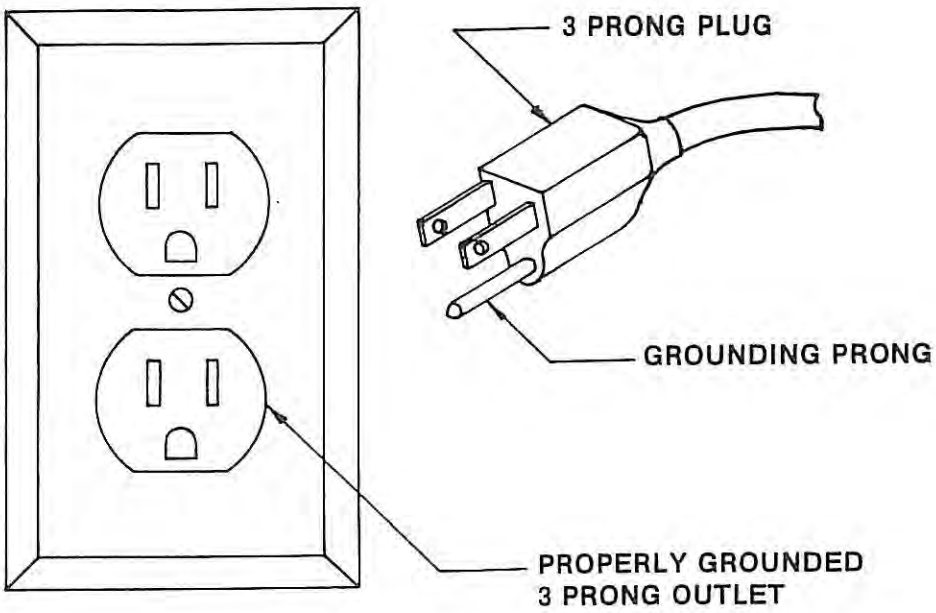
   a. Never immerse the unit in water or any other liquid.
   b. Unplug the unit from the electrical source before putting on or removing parts, and before cleaning.
   c. Never operate an appliance with a damaged cord. Do not let the cord hang over a sharp edge, such as a counter top or table, or be exposed to hot surfaces.
   d. Do not use an extension cord.
   e. The unit should not be operated outdoors or be exposed to the natural elements (rain, snow or so forth).
   f. THIS ELECTRICAL APPLIANCE, LIKE ALL OTHERS, SHOULD BE GROUNDED!

LIKE ALL OTHER ELECTRICAL APPLIANCES, THIS UNIT SHOULD NOT BE OPERATED AND FILLED DIRECTLY FROM THE KITCHEN SINK WITH THE UNIT CONNECTED TO AN ELECTRICAL SOURCE AS AN EXTRA PRECAUTIONARY MEASURE.

CONNECTING TO POWER SOURCE OUTLET:

This unit must be grounded while in use to protect the operator from electrical shock. If power cord is worn, cut or damaged in any way, have it replaced immediately.

Your unit has a plug that looks like the one illustrated below.



Plug power cord into 120V properly grounded type outlet protected by a 20-amp. time delay or circuit-saver fuse, or circuit breaker.

IF YOU ARE NOT SURE THAT YOUR OUTLET IS PROPERLY GROUNDED, HAVE IT CHECKED BY A QUALIFIED ELECTRICIAN.

WARNING: DO NOT PERMIT FINGERS TO TOUCH THE TERMINALS OF PLUG WHEN INSTALLING OR REMOVING THE PLUG TO OR FROM THE OUTLET.

This unit is equipped with a 3-conductor cord and grounding type plug which has a grounding prong, approved by Underwriter's Laboratories and the Canadian Standards Association. The ground conductor has a green plug and is attached to the base at one end and to the ground prong in the attachment plug at the other end.

This plug requires a mating 3-conductor grounded type outlet as shown.

You will notice that the condensing coil, located inside the unit at the left (as you face the front of the unit), will have two small holes drilled in its top. These holes are not defects, rather they are provided to release certain volatile gases. Should some steam escape from these holes, this should be of no alarm to you.

Although we inspect these machines before leaving the factory, we are subject to human error. So, should there be any defects or missing parts to your machine, correspond directly with Pure Water, Inc., 3725 Touzalin, P.O. Box 83226, Lincoln, NE 68501.

FIGURE 1 CONTENTS OF 5 OR 10 GALLON STORAGE TANK

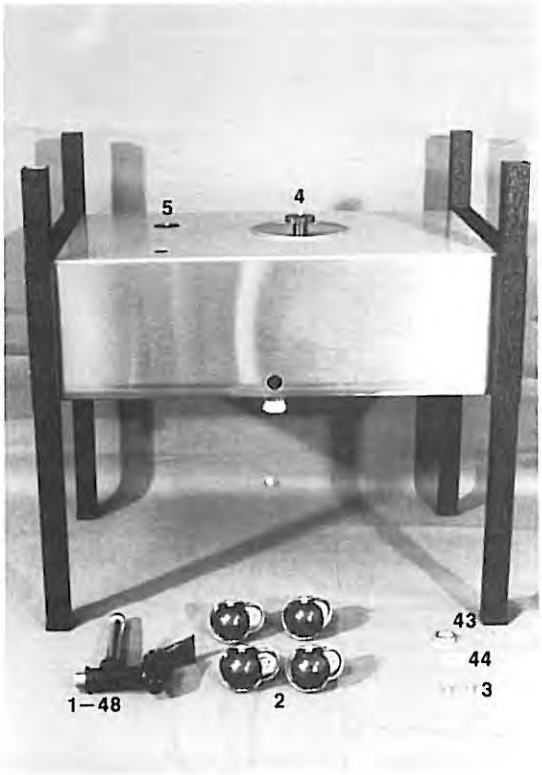


Figure 1

Key No.	Part Name
1	MS-10 faucet (10 gallon storage tank only)
2	Casters
3	Screws (two each)
4	Storage tank lid assembly
5	Vent plug assembly
43	Nut
44	Gasket
48	MS-5 faucet (5 gallon storage tank only)
49	S.S. Filter body (not shown)
50	S.S. Screen (not shown)
51	Fitler cap (not shown)

FIGURE 2 CONTENTS OF TOP UNIT AND PARTS

Figure 2

Key No.	Part Name
6	Drain valve extension tube
7	Inlet gasket
8	Transfer sleeve
9	¼" plastic nut (3 each)
10	Strainer
11	Boiling tank lid assembly
12	¼" OD water line tubing
13	Saddle tapping valve kit
45	Stainless steel washer

Key No.	Part Name
1	MS-10 faucet
43	Hex nut
44	Gasket
48	MS-5 faucet

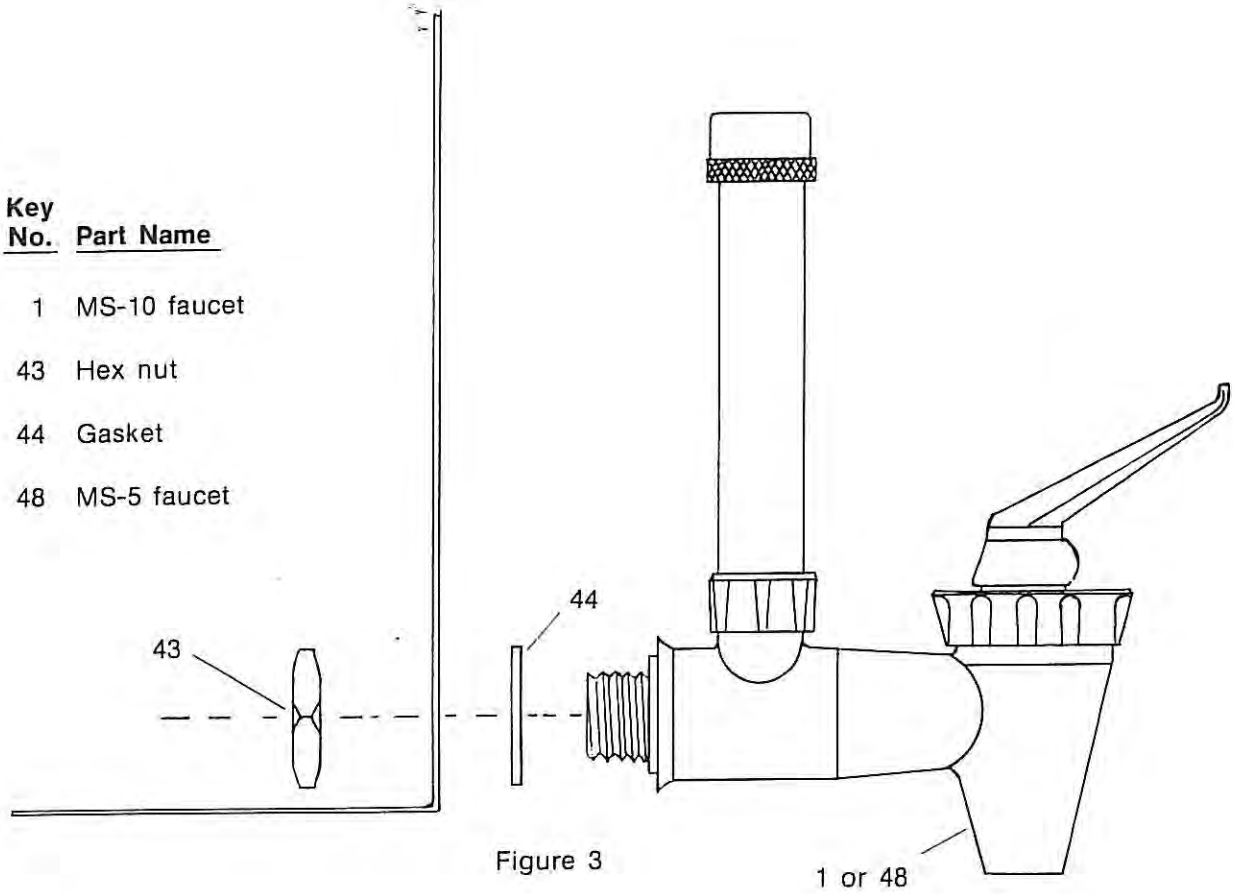


Figure 3

FIGURE 4 INSTALLATION OF TRANSFER SLEEVE

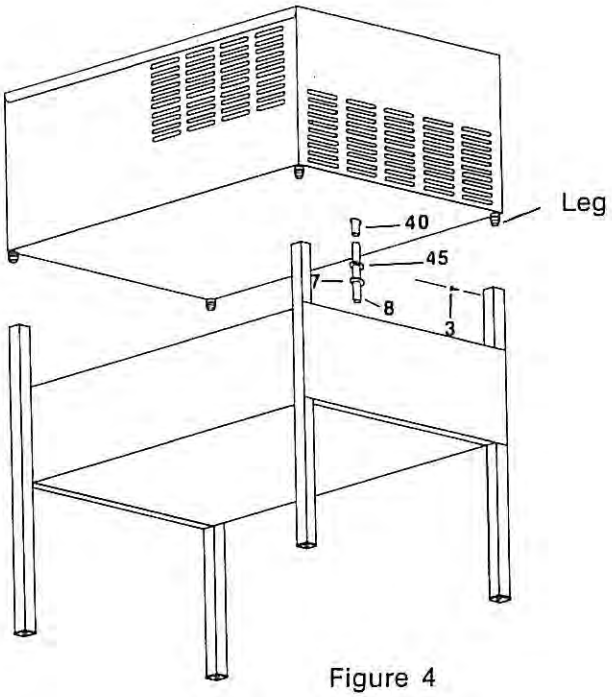


Figure 4

Key No.	Part Name
3	Screw
7	Inlet gasket
8	Transfer sleeve
40	Condensing coil extension tube
45	Stainless steel washer

FIGURE 5 AQUA-D STILL ASSEMBLED

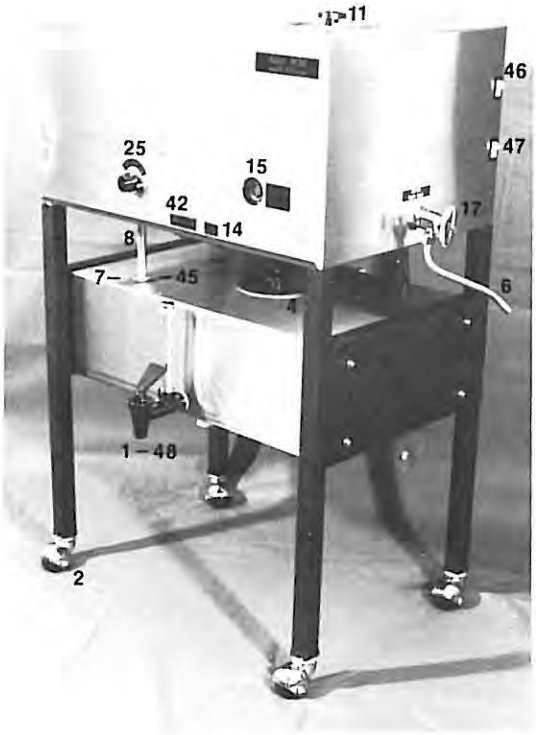


Figure 5

FIGURE 6 AQUA-D STILL BACK VIEW UNASSEMBLED

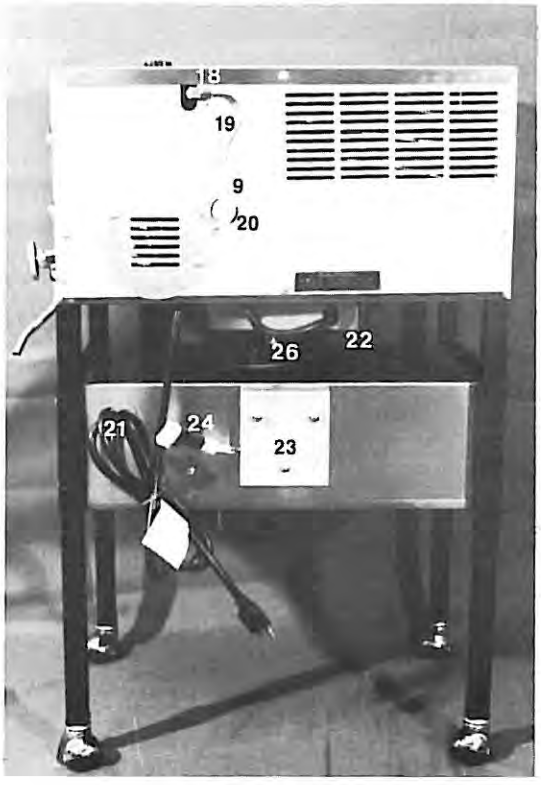


Figure 6

Key No.	Part Name
1	MS-10 faucet (10 gallon storage tank only)
2	Caster
4	Storage tank lid assembly
6	Drain valve extension tube
7	Inlet gasket
8	Transfer sleeve
11	Boiling tank lid assembly
14	Fan switch
15	Reset
17	R-17 drain valve
25	Timer assembly
42	Main switch (Timer-Off-Auto)
45	Stainless steel washer
46	Momentary water switch
47	Heating element switch
48	MS-5 faucet (5 gallon storage tank only)

Key No.	Part Name
9	¼" plastic nut
18	Elbow ¼" compression x ⅛" NPT
19	Water inlet tube
20	Solenoid water valve
21	Power cord
22	Electrical cover box
23	Switch cover box
24	8" cord assembly

FIGURE 7 AQUA-D STILL REAR VIEW ASSEMBLED

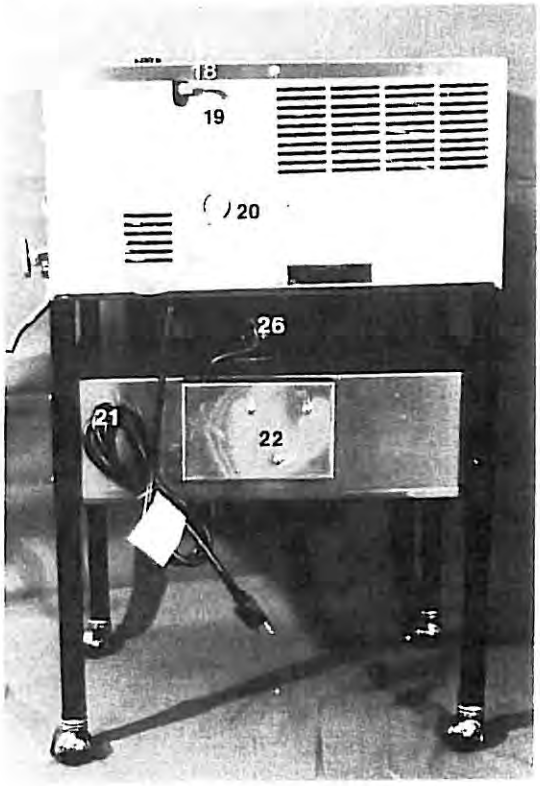


Figure 7

Key No.	Part Name
18	Elbow ¼" compression x ⅛" NPT
19	Water inlet tube
20	Solenoid water valve
21	Power cord
22	Electrical cover box
26	28" cord assembly

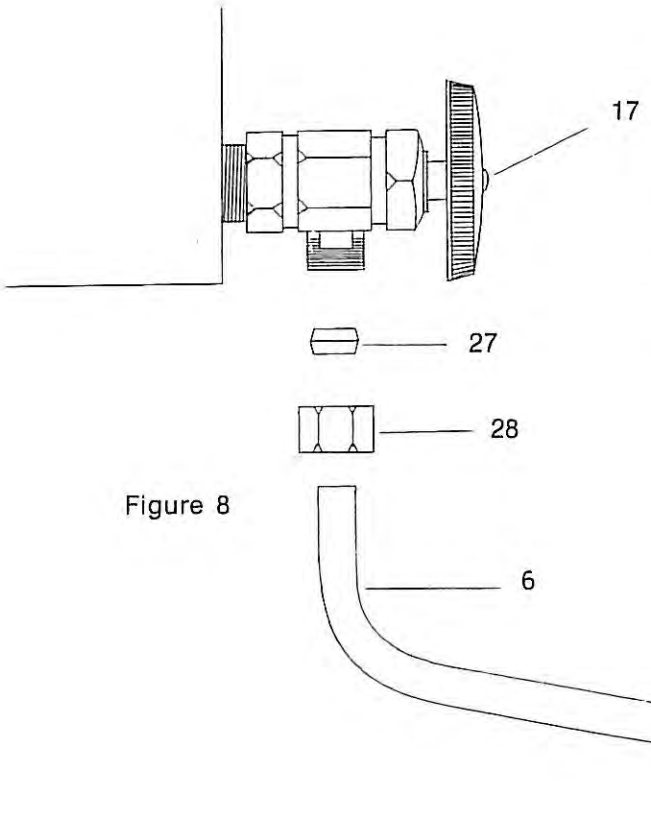


Figure 8

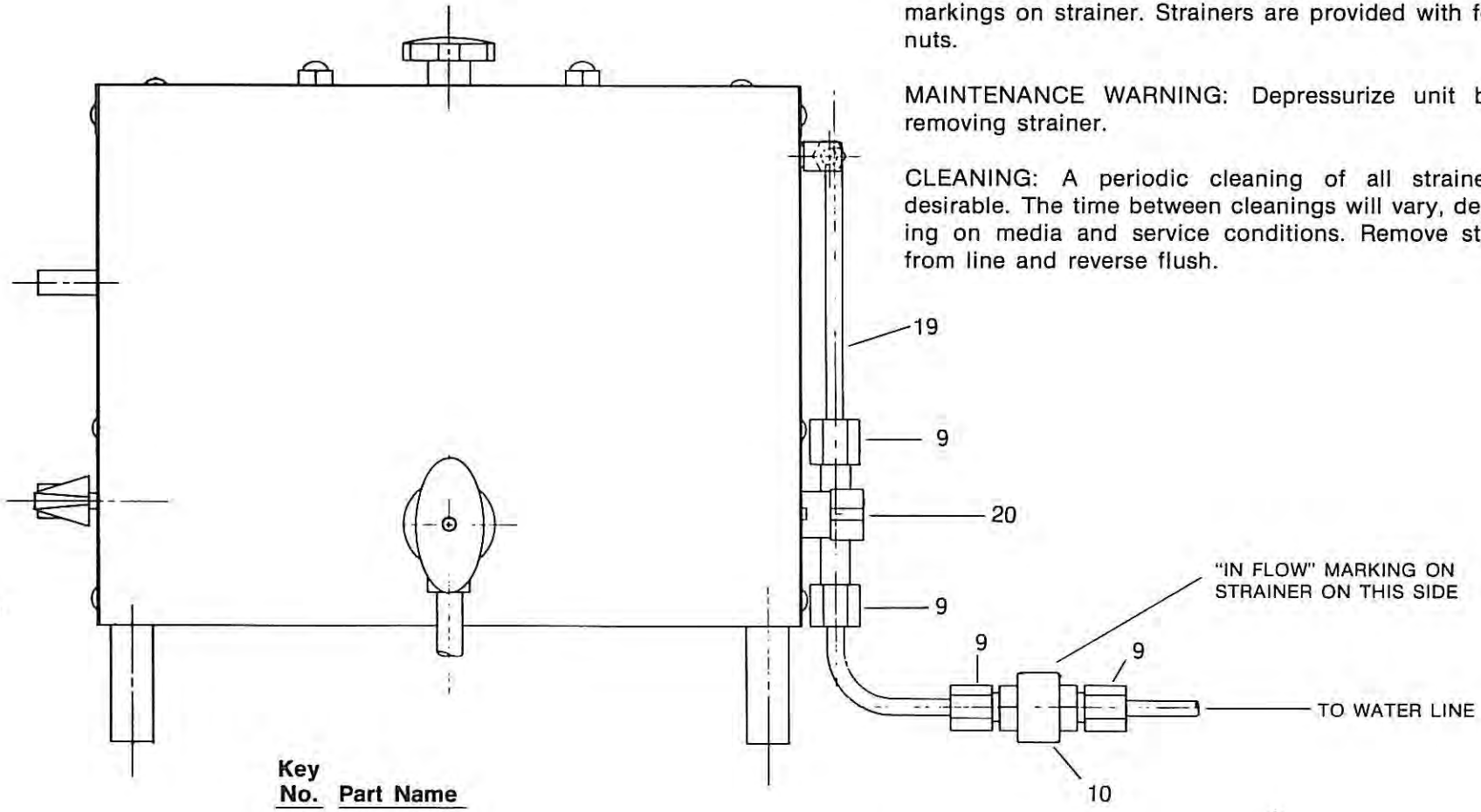
Key No.	Part Name
6	Boiling tank drain tube
17	R-17 drain valve
27	Brass compression ring
28	Compression nut

FIGURE 9 INSTALLATION OF STRAINER

INSTALLATION TUBING: This strainer can be installed anywhere in the water line. Cut water pressure off before installing strainer. Connect tubing to strainer according to markings on strainer. Strainers are provided with ferrule nuts.

MAINTENANCE WARNING: Depressurize unit before removing strainer.

CLEANING: A periodic cleaning of all strainers is desirable. The time between cleanings will vary, depending on media and service conditions. Remove strainer from line and reverse flush.



Key No.	Part Name
9	¼" plastic nut
10	Strainer
19	Water inlet tube
20	Solenoid water valve

NOTE:
cut plastic water feed line at any convenient place, and insert strainer

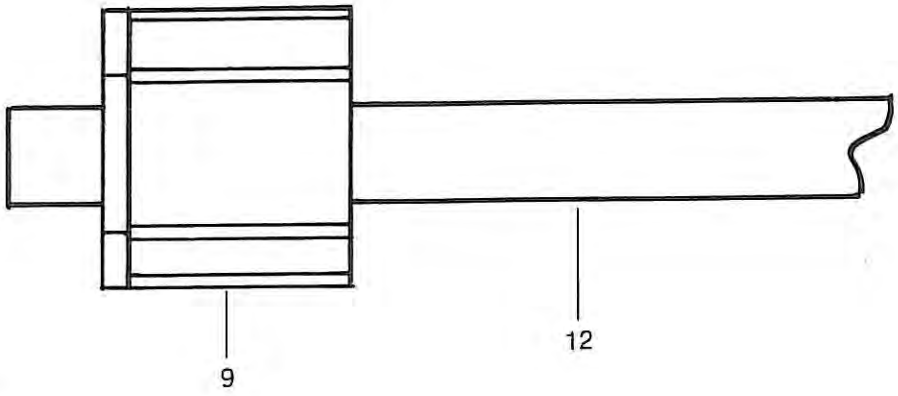


Figure 10

Key No.	Part Name
9	¼" plastic compression nut
12	¼" OD water line tubing

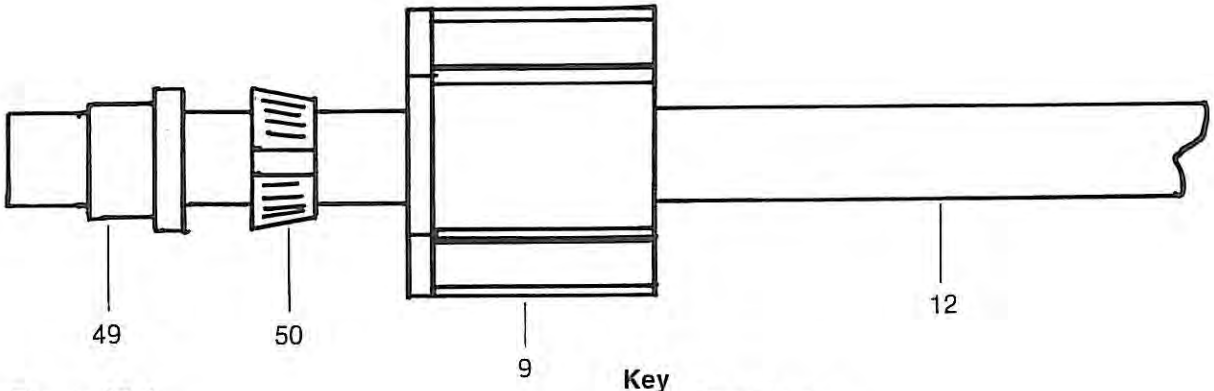


Figure 10-A

Key No.	Part Name
9	¼" plastic compression nut
12	¼" OD water line tubing
49	Compression sleeve
50	Gripper

Figure 11

FIGURE 11 SADDLE TAPPING VALVE KIT

Key No.	Part Name
13	Saddle tapping valve
29	Brass insert
30	Delrin sleeve
31	¼" compression nut
32	¼" brass sleeve (for use on copper line)

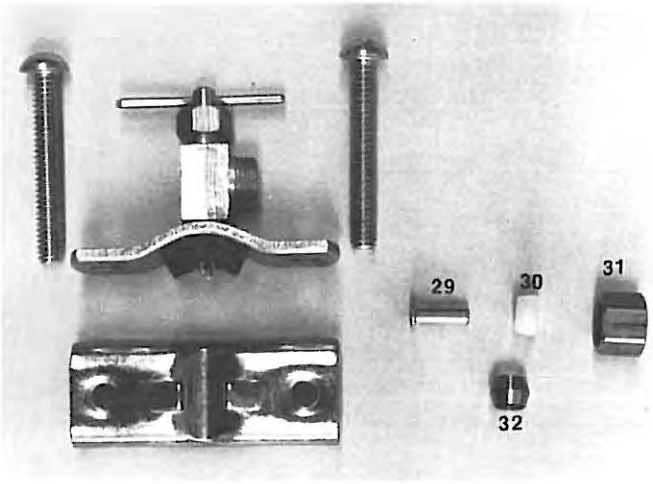


FIGURE 12 AQUA-D STILL VIEW OF UNIT FRONT COVER REMOVED

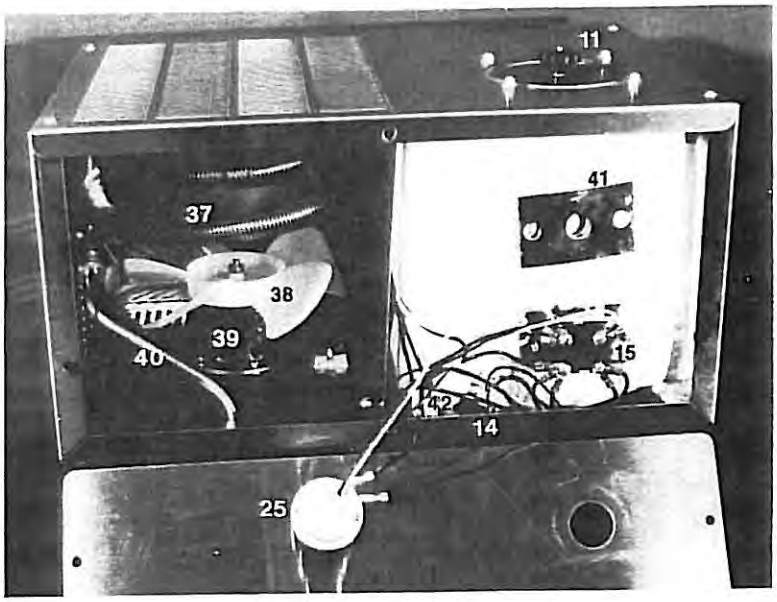


Figure 12

Key No.	Part Name
11	Boiling tank lid assembly
14	Fan switch
15	Reset
25	Timer assembly
37	Aqua condensing coil
38	Fan blade
39	Motor assembly
40	Condensing coil extension tube
41	S.S. reset retainer plate
42	Main switch (Timer-Off-Auto)

FIGURE 13 AQUA-D STILL VIEW OF UNIT BACK COVER REMOVED

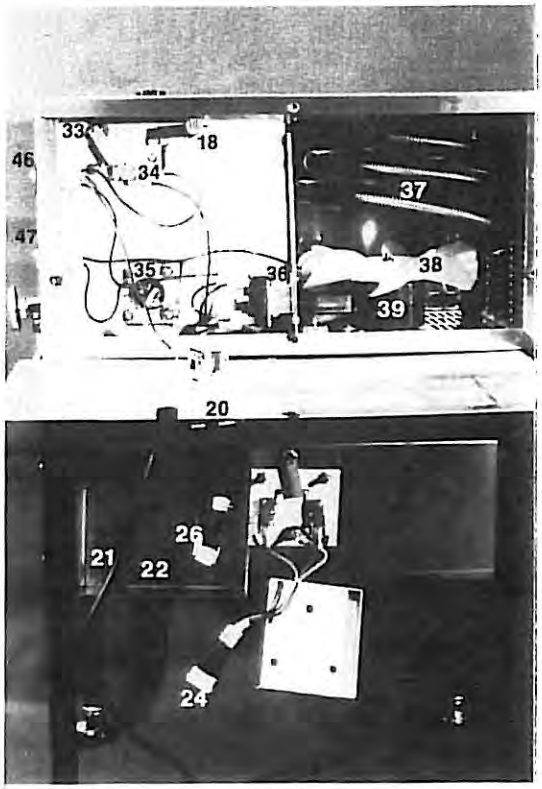


Figure 13

Key No.	Part Name
18	Elbow ¼" compression x ⅛" NPT
20	Solenoid water valve
21	Power cord
22	Electrical cover box
24	8" cord assembly
26	28" cord assembly
33	Actuating arm
34	Micro switch
35	Heating element 1500 watts
36	Relay
37	Aqua condensing coil
38	Fan blade
39	Motor assembly
46	Momentary water switch
47	Heating element switch

FIGURE 14 AQUA-D CLOSE UP VIEW OF TOP UNIT BACK COVER REMOVED

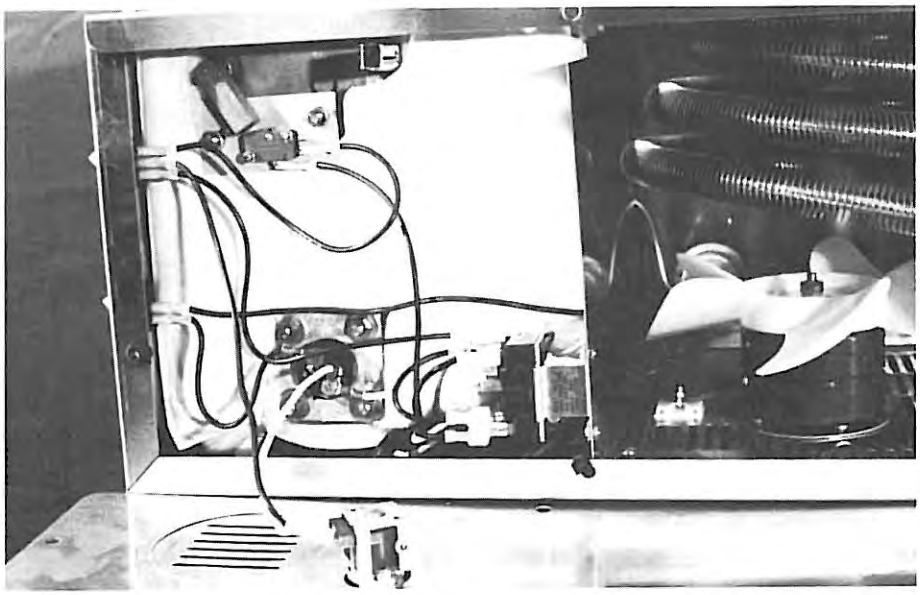
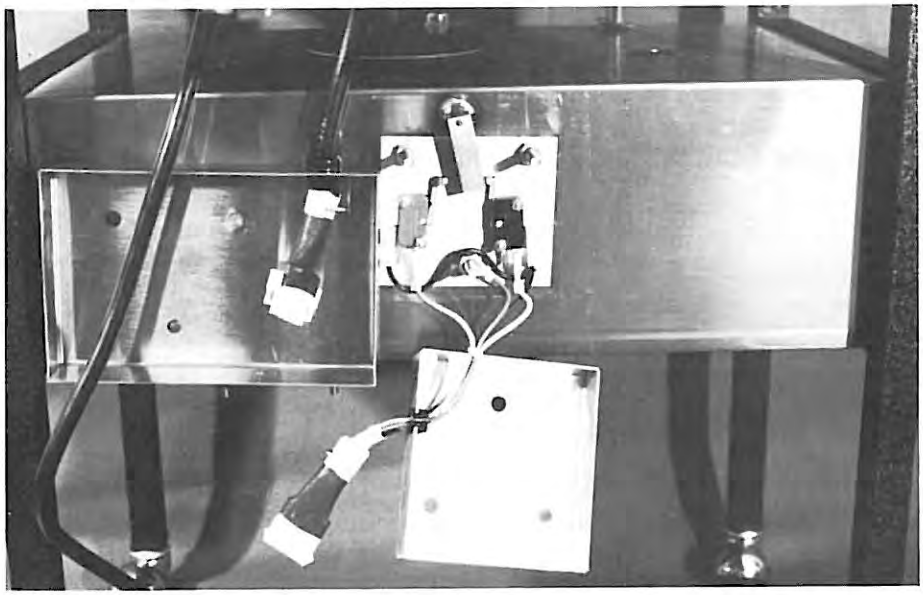


FIGURE 15 AQUA-D CLOSE UP VIEW OF STORAGE TANK COVER BOXES REMOVED



THE INSTRUCTIONS WHICH ARE GIVEN BELOW AND ON THE FOLLOWING PAGES SHOULD BE FOLLOWED CLOSELY IN ASSEMBLING AND PREPARING THE UNIT FOR OPERATION.

ASSEMBLY

The Aqua D will be shipped in two (2) separate boxes. One box contains the top "Purifier Portion" of the unit. The other box contains the "Storage Tank and Stand". When unpacking the boxes, save everything until the unit is in operation. NOTE: Save the boxes in case your purifier should require repair at the factory.

ASSEMBLING THE UNIT - Begin by unpacking the "Storage Tank and Stand".

1. 5- or 10-gallon Storage Tank - In addition to the "Storage Tank and Stand" you will find the following parts packed in the parts bag (Fig. 1).
   - 4 Casters
   - 1 Storage tank drain faucet
   - 2 Screws
   - 1 Nut
   - 1 Gasket
   - 1 S.S. filter body
   - 1 Filter Cap

2. Install the 4 casters (Fig. 1-2). Lay the tank and stand on its side. Push the metal stem of the casters into the plastic inserts at the bottom of each leg.

3. Install storage tank drain faucet (Fig. 1-1). Turn unit back in upright position. Install the drain faucet using the following procedure (Fig. 3):
   a. Place gasket on threaded section of the faucet.
   b. Insert the threaded section through the hole in the bottom front of the tank.
   c. Reaching through the access hole, while holding the faucet in position with other hand, install the nut.
   d. To tighten the nut, offset the faucet a few degrees counterclockwise; finger tighten the nut on the inside of the tank; then, while holding the nut, turn the faucet clockwise to tighten.

   CAUTION: GRASP THE BODY OF THE FAUCET TO TIGHTEN, NOT THE SIGHT GAUGE.

NOTE: For sanitation reasons the inside of the storage tank **must be cleaned** before assembling for steam cycle. Please use two tablespoons baking soda with a half tank of tap (or purified) water.

4. It is a requirement of safety codes that when two assemblies are electrically interconnected, they must be mechanically joined to prevent them from accidentally separating. In the parts bag you will find two self-tapping screws (Fig. 1-3). These are to be screwed into the small holes in the legs of the stand (Fig. 4-3). The holes are located 7/16 inch from the top of the leg, on the inside corners of two diagonally opposite legs. It is recommended that the screws be started before placing the purifier on the stand to avoid having to work in cramped quarters. The screws can then be backed out.

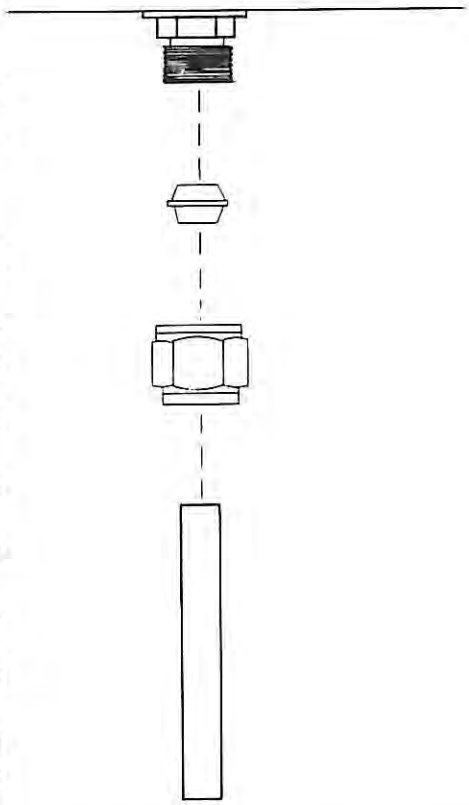
NOTE: DO NOT OMIT THESE SCREWS OR MACHINE WILL NOT BE IN COMPLIANCE WITH SAFETY CODES.

5. Unpack the top portion of the Agua D. You will find the following parts packed in the parts bag (Fig. 2):

1 Drain valve extension tube	1 Strainer
1 Inlet gasket	1 1/4" OD water line tubing
1 Transfer tube	1 Saddle tapping valve kit
3 1/4" Plastic nut	2 3/8" Compression nut
1 Stainless steel washer	2 3/8" Compression sleeve

6. INSTALLATION OF TOP PORTION OF PURIFIER TO STORAGE TANK (Fig. 5).

The Storage Tank comes with a filter body and filter lid.



a. Install purifier top unit on storage tank stand. The purifier has one short round leg at each corner (Fig. 4). These round legs are to be inserted into the square tube legs at each corner of the stand. Put back legs in first.
b. Insert the filter body into large hole in tank.
c. Insert the transfer tube through the small end of compression nut. Insert the compression sleeve onto transfer tube, see diagram to show which direction the brass sleeve is facing.
d. While holding transfer tube against the threaded fitting, slide compression nut and compression sleeve up to threaded fitting and start compression nut turning right (clockwise), tighten compression nut.

NOTE: 1. You must hold the threaded fitting with a wrench to keep the fitting from turning while tightening compression nut.
2. Do not let the transfer tube slip down from threaded fitting while you're tightening compression nut.

e. After you have crimped the compression sleeve it will be necessary to remove complete assembly and proceed with step f & g.
f. If you use the charcoal filter packet at this time, follow the instructions provided with packet.
g. Slip the stainless steel washer and inlet gasket (4-7, 4-45) about half way onto the transfer tube (Fig. 4-8).
h. Install the transfer sleeve assembly back onto the threaded fitting and push the stainless steel washer and inlet gasket down to the filter lid.

REPLACEMENT OF THE CHARCOAL FILTER PACKET WILL VARY FROM ONE AREA TO ANOTHER, DEPENDING UPON HOW MUCH WATER HAS BEEN PURIFIED AND THE DEGREE OF CONTAMINATION.

a. Remove the filter cup from storage tank.
b. Remove charcoal filter packet from filter and discard, wash and rinse the filter body thoroughly.
c. Drain the storage tank and wash and rinse thoroughly.
d. Install new filter packet and insert in tank, following packet instructions, and insert filter cup into tank.

7. INSTALLATION OF ELECTRICAL COVER BOX TO STORAGE TANK (Fig. 7022).

   a. During shipment of the top unit, the electrical cover box is attached to the bottom of the unit with a hex nut (Fig. 6-22). Remove this electrical cover box from the top unit.
   b. Remove the 3 cap nuts from the mounting studs. DO NOT REMOVE THE THIN NUTS THAT HOLD THE SWITCH COVER BOX ON THE STORAGE TANK (Fig. 6-23).
   c. Plug the two connectors together, one from the electrical box (Fig. 13-26) and the one protruding from the switch cover box (Fig. 13-24).
   d. Place the electrical cover box over the mounting studs with the connector inside of the electrical cover box and replace the cap nuts and tighten.

8. The Boiling Tank Lid (Fig. 5-11) will not be used until instructed to do later in directions. You may note that by loosening the black knob on top and then tipping the lid, the bar at the bottom slips under the opening in the top of the unit. Center the lid over the opening and tighten the black knob. This lid will need to be removed each time the unit is manually filled with water.

9. INSTALLATION OF BOILING TANK DRAIN EXTENSION TUBE (Fig. 8-6). The boiling tank drain extension tube will allow the user to drain the boiling tank more conveniently. To assemble, remove the compression nut and brass sleeve from the boiling tank drain valve; take the end of the tube with the 90° bend and do the following:

   a. Slip the compression nut (Fig. 8-28) over the tube, small opening first; then, slip on the brass sleeve (Fig. 8-27).
   b. Push the tube into the opening of the drain valve (Fig. 8-17).
   c. Next, thread the nut onto the boiling tank drain valve and tighten.

   NOTE:
   1. If unit is to be used as a MANUAL FILL, stop here and go to OPERATION MANUAL FILL.
   2. If the unit is to be used as a DIRECT WATERLINE HOOKUP, proceed with the following directions for assembling.

10. INSTALLATION OF WATERLINE TO UNIT FOR DIRECT WATERLINE HOOKUP.

   a. Install water line and strainer as per Figure 9.
   b. Installation of ¼" plastic nuts on fittings, insert the waterline tubing through the small end of plastic nut and let it protrude about ¼" (Fig. 10).

   NOTE:
   The compression nut comes in 3 parts; the nut, compression sleeve, and gripper. If the compression sleeve or gripper comes out while installing the water line, insert them back into the nut or on tubing. See Fig 10-A. The gripper has a split in it so it will compress into the tubing when you tighten the nut.

   c. Install plastic nut on fitting about ¼ turn. Push the water line as far as it will go and then tighten nut.
   d. Connect saddle tapping valve to home cold water supply, DO NOT USE HOT WATER LINE. See instructions on saddle tapping valve kit (Fig. 11) for saddle tapping valve assembly.

   NOTE:
   If you have a soft water unit in your home, you can use the cold water line from the water softener unit.

   NOTE:
   MAKE SURE THE BOILING TANK DRAIN VALVE IS CLOSED BEFORE PROCEEDING.

   e. Turn existing water supply on and open saddle tapping valve completely.

NOTE:
Should any leaks occur in step e, tighten all connections. Some areas where leaks may occur are: where the saddle tapping valve attaches to existing water line; where waterline tubing attaches to strainer and/or where waterline tubing attaches to saddle tapping valve.

11. OPERATION — DIRECT WATERLINE HOOKUP WITH MOMENTARY WATER SWITCH.

a. Turn Main switch, Heating element switch and Fan switch to the "OFF" position. Plug the unit into electrical outlet.
b. Fill the boiling tank with water by pressing the momentary water switch until water is just above the heating element, leave the boiling tank lid "OFF".
c. Turn fan switch, heating element switch to the "ON" position and main switch to the "AUTO" position. The boiling tank will stop filling when the water level is approximately 1½" above the heating element.

CAUTION:
DO NOT OPERATE THIS UNIT WITH THE MAIN SWITCH IN THE TIMER POSITION WHEN USED AS A DIRECT WATERLINE HOOKUP. WHEN THE UNIT IS IN THE TIMER POSITION IT TURNS "OFF" THE SOLENOID WATER VALVE.

d. To check operation of the automatic filling system hold a container under the drain valve, open the drain valve SLOWLY, and as the water level lowers to approximately 1" over the heating element - the unit should again allow water to refill the boiling tank.

CAUTION:
DO NOT OPERATE UNIT IF THE WATER GOES BELOW THE HEATING ELEMENT.

12. STEAM STERILIZATION.

This unit has been run several times at the factory in order to test its operation, parts and assembly; however, the user is encouraged to run the unit through a steam sterilization cycle. It is advisable to do it at this time.

NOTE:
When steam sterilizing the storage tank remove the stainless steel filter body from the tank. This will allow steam to enter the tank and not cause a back pressure in the filter body. Place the filter cap on tank during the steam sterilizing cycle.

a. Turn main switch, heating element switch and fan switch to the "OFF" position.
b. Drain water from boiling tank.
c. Refill boiling tank with water by pressing momentary water switch until water is just above heating element.
d. Turn heating element switch to the "ON" position.
e. Turn main switch to the "AUTO" position.
f. DO NOT turn the fan switch "ON" at this time! By placing the fan switch in the "OFF" position, this will allow steam to pass through the condensing coil and sterilize the unit.
g. Install boiling tank lid and tighten lid knob.
h. Open storage tank drain faucet and place a container under opening. Although mostly steam is produced, some condensation will occur. After initial sterilization, this cycle may be run periodically without storage tank drain faucet open.
i. Allow machine to run 20 minutes after water has come to full boil. Turn "OFF" all switches. Close the storage tank drain faucet.
j. After steam sterilizing install stainless steel filter body and cap into storage tank.

13. DISTILLATION — DIRECT WATERLINE HOOKUP WITH MOMENTARY WATER SWITCH.

a. Turn main switch, heating element switch and fan switch to the "OFF" position. Have the unit plugged into electrical outlet.
b. Fill the boiling tank with water by pressing the momentary water switch until water is just above the heating element.
c. Turn fan switch, heating element switch to "ON" position and main switch to "AUTO" position. The boiling tank will stop filling when the water level is approximately 1½" above the heating element. Install boiling tank lid and tighten lid knob.

NOTE:
The unit will run until the storage tank is full and automatically turn "OFF". When approximately two to three gallons of water are drawn from storage tank it automatically turns "ON".

NOTE:
To help prevent a concentration of chemicals, pollutants and other materials from building up in the bottom of the boiling tank, drain the boiling tank after approximately every third distillation cycle or at least once a week and refill with water. See cleaning instruction.

OPERATION — MANUAL FILL

1. STEAM STERILIZATION.

This unit has been run several times at the factory in order to test its operation, parts and assembly; however, the user is encouraged to run the unit through a steam sterilization cycle prior to distilling water for usage. For steam sterilization cycle, it is advisable to do it at this time.

a. Turn main switch, heating element switch, timer switch and fan switch to the "OFF" position.
b. Fill the boiling tank manually with water until the water just touches the water level gauge. (Water level gauge is located just to the rear, inside of tank opening.)
c. Install boiling tank lid and tighten lid knob.
d. Plug the unit into electrical outlet and turn heating element switch to the "ON" position.
e. Turn main switch to the "TIMER" position.

CAUTION:
DO NOT OPERATE THIS UNIT WITH THE MAIN SWITCH IN THE "AUTO" POSITION WHEN USED AS A MANUAL FILL UNIT. WHEN THE UNIT IS IN THE "AUTO" POSITION THE "TIMER" DOES NOT RUN.

f. Turn the timer knob left, counterclockwise, to the timer stop.
g. DO NOT turn the fan switch "ON" at this time! By placing the fan switch in the "OFF position, this will allow steam to pass through the condensing coil and sterilize the unit.
h. Open storage tank drain faucet and place a container under opening. Although mostly steam is produced, some condensation will occur. After initial sterilization this cycle may be run periodically without storage tank drain faucet open.
i. Allow machine to run 20 minutes after water has come to full boil. Turn all switches to the "OFF" position. Drain and rinse boiling tank.

CAUTION:
FILLING WATER ABOVE BOTTOM OF LEVEL GAUGE MAY ALLOW UNDISTILLED WATER TO FLOW INTO THE CONDENSING COIL AND INTO STORAGE TANK.

2. DISTILLATION — MANUAL FILL

a. Remove boiling tank lid, fill manually with water until the water touches the water level gauge.

CAUTION:
FILLING WATER ABOVE BOTTOM OF LEVEL GAUGE MAY ALLOW UNDISTILLED WATER TO FLOW INTO THE CONDENSING COIL AND INTO STORAGE TANK.

b. Install boiling tank lid and tighten lid knob.
c. Plug unit into electrical outlet and turn heating element switch to the "ON" position.
d. Turn main switch to the "TIMER" position.

CAUTION:
DO NOT OPERATE THIS UNIT WITH THE MAIN SWITCH IN THE "AUTO" POSITION WHEN USED AS A MANUAL FILL UNIT. WHEN THE UNIT IS IN THE "AUTO" POSITION THE "TIMER" DOES NOT RUN.
e. Turn the fan switch to the "ON" position.
f. Turn the timer knob left, counterclockwise, to the timer stop.

NOTE:
1. The boiling tank MUST BE refilled before each distillation cycle.
2. The storage tank has a set of switches on it. It operates the relay that is inside of the top portion of the distiller. When unit is used as a Manual Fill unit, the relay will stay energized until the storage tank is full and then automatically turns "OFF". Even if the timer hasn't turned "OFF", you will not be able to distill water again until you have drawn about 2 to 3 gallons of water from the storage tank. This will actuate the float switches on the storage tank and allow you to distill water again.
3. To help prevent a concentration of chemicals, pollutants and other materials from building up in the bottom of the boiling tank, drain the boiling tank after approximately every third distillation cycle or at least once a week and refill with water.

CLEANING INSTRUCTIONS

PROPER CLEANING IS IMPORTANT. Improper cleaning may shorten the life of the unit and particularly that of the heating element. We recommend draining the boiling tank of your unit after approximately every third distillation cycle. This will help prevent a concentration of chemicals, pollutants and other materials from building up in the bottom of the boiling tank.

Your unit should be cleaned whenever there is a noticeable amount of mineral build up around the outside of the heating element. The frequency of cleaning will vary from one area to another, depending upon the mineral content in that area and how much water has been distilled.

For cleaning we suggest that you use either a solution of our industrial grade cleaner called Lumen No. 2 (which may be purchased through your distributor), or a cleaner of your choice. DO NOT USE AN ABRASIVE CLEANER OR STEEL WOOL CLEANING PADS.

USE THE FOLLOWING PROCEDURE FOR CLEANING:

NOTE:
1. If unit is to be used as a MANUAL FILL, stop here and go to CLEANING MANUAL FILL.
2. If the unit is to be used as a DIRECT WATERLINE HOOKUP, proceed with the following directions for cleaning.

DIRECT WATERLINE HOOKUP WITH MOMENTARY WATER SWITCH:

a. Turn "OFF" heating element and fan switch, remove boiling tank lid.
b. Drain the boiling tank.
c. Rinse the boiling tank by pressing the momentary water switch.

d. Close drain valve and fill boiling tank half full of water by pressing momentary water switch.
e. Add Cleaner. When Lumen No. 2 or another commercial cleaner is used follow the directions on the package. (The amount of cleaner may need to be increased depending upon the kind and type of mineral deposits in your boiling tank.)
f. Mix well.
g. Fill boiling tank with water to the bottom of the water level gauge by pressing the momentary water switch.
h. Let solution stand overnight or until the mineral content softens. UNDER NO CIRCUMSTANCES SHOULD THE CLEANING SOLUTIONS BE HEATED AND RUN THROUGH A STEAM STERILIZATION OR DISTILLATION CYCLE!
i. The next morning drain and rinse the boiling tank thoroughly.
j. Be sure to refill the boiling tank with water to above the heating element before beginning to distill water again.
k. Turn "ON" heating element and fan switch.
l. Install boiling tank lid.

CLEANING WHEN USED AS MANUAL FILL UNIT.

a. Make sure the unit is turned "OFF" and DISCONNECTED FROM ELECTRICAL SOURCE.
b. Remove boiling tank lid.
c. Drain the boiling tank and rinse.
d. Close drain valve and fill boiling tank manually half full of water.
e. Add cleaner. When Lumen No. 2 or another commercial cleaner is used, follow the directions on the package. (The amount of cleaner may need to be increased depending upon the kind and type of mineral deposits in your boiling tank.)
f. Mix well.
g. Fill boiling tank manually with water to bottom of water level gauge.
h. Let solution stand overnight or until the mineral content softens. UNDER NO CIRCUMSTANCES SHOULD THE CLEANING SOLUTIONS BE HEATED AND RUN THROUGH A STEAM STERILIZATION OR DISTILLATION CYCLE!
i. The next morning drain and rinse the boiling tank thoroughly.
j. Be sure to refill the boiling tank with water to water level gauge before beginning to distill water again.
k. Install Boiling tank lid.
l. Plug unit into electrical outlet.
m. Turn switches "ON" for distilling.

TROUBLE SHOOTING

a. Reset may have "kicked" off. If unit is hot, allow to cool. Cooling may be hastened by draining the boiling tank and refilling with cold water to water level gauge. Using the eraser end of a pencil, push firmly against the reset button. If you hear a "click" the machine has been reset. If you do not hear a "click" allow the unit to cool for 15 minutes more and push reset button again. If no "click" is heard the problem is not with the reset.
b. Should the above fail, check to make sure you have power to the electrical wall outlet. A good check for this is to take an appliance or lamp you know works and plug it into the wall outlet.
c. If the storage tank is full, unit will not come on until approximately one to two gallons of distilled water are drawn from storage tank.
d. Common causes of machine failure:
   1. Unit "jarred" when nearly full.
   2. Power failure.
   3. Power cord pulled from wall outlet.
   4. Main switch "OFF".
   5. Reset kicked "OFF".

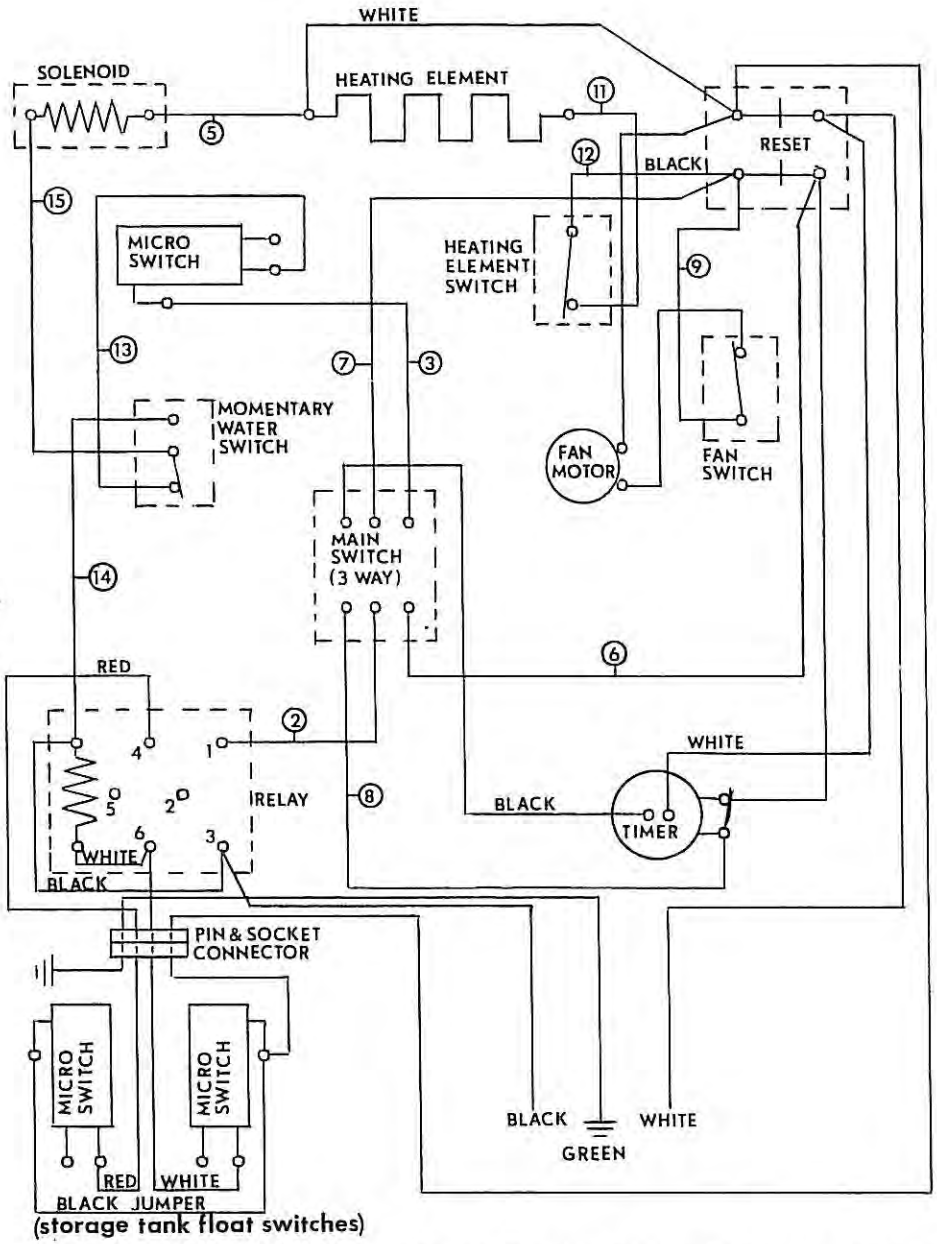
NOTE: If any of the above occurs, drain several gallons of water from the storage tank to check your unit.

HOW TO ORDER REPAIR PARTS

CAUTION: SHOULD IT EVER BE NECESSARY FOR YOU TO INSTALL PARTS, ALWAYS DISCONNECT THE UNIT FROM THE ELECTRICAL WALL OUTLET!

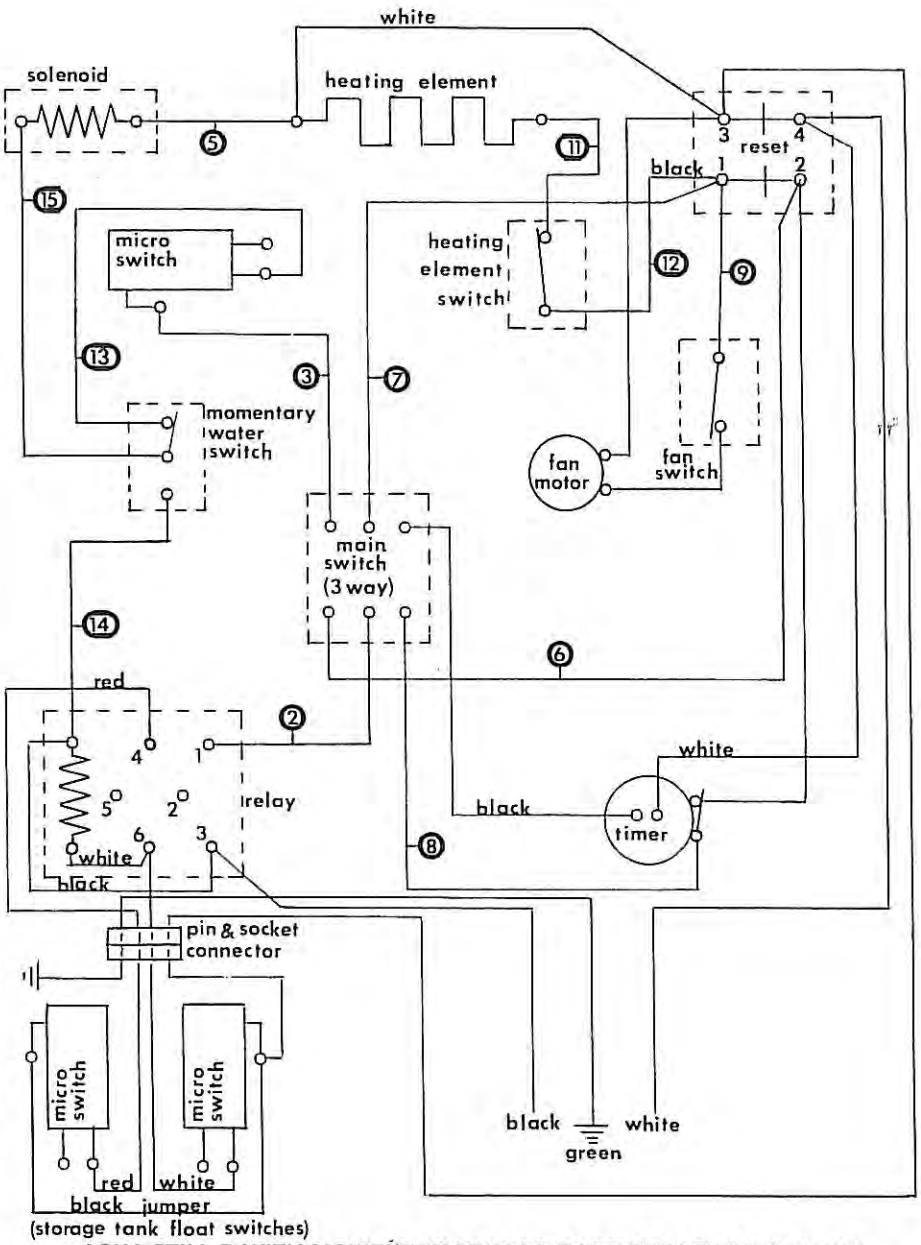
When ordering repair parts, always give the following information: Part Number, Part Name, Model Number and Serial Number. ALWAYS ORDER BY PART NUMBER — NOT BY KEY NUMBER.

KEY NO.	PART NO.	PART NAME
1	9575	MS-10 faucet
2	9060	Caster
5	411	Vent plug assembly
6	518	Drain valve extension tube
7	6009	Inlet gasket
8	4032	Transfer sleeve
9	9550	¼" plastic compression nut
10	9560	Strainer
12	9526	¼" OD water line tubing
13	9514	Saddle tapping valve kit
14	7052	Fan switch
15	7039	Reset
17	9508	R-17 drain valve
19	524	Water inlet tube
20	7222	Solenoid
21	4514	Power cord
22	4023	Electrical cover box
24	4516	8" cord assembly
25	4531	Timer assembly
26	4515	28" cord assembly
33	609	Actuating arm with set screws
34	7201	Micro switch
35	7025	Heating element 1500 watts
36	7203	Relay
37	606	Aqua condensing coil with fittings
38	7010	Fan blade
39	4512	Motor assembly
40	4509	Condensing coil extension tube
42	7053	Main switch (timer-off-outo)
45	9099	Stainless steel washer
46	7227	Momentary water switch
47	7228	Heating element switch
48	9570	MS-5 faucet
	519	Lid disc
	8001	Lid knob
	6022	Lid "O" ring
	402	Lid crossbar with stud
	604	Float "O" ring kit
	614	Short float rod assembly (storage tank) with "O" ring kit
	615	Long float rod assembly (boiling tank) with "O" ring kit
	68	Bib washer (for boiling tank drain valve)



(storage tank float switches)

AQUA STILL D WITH MOMENTARY WATER SWITCH MADE BY ARROW HART



(storage tank float switches)

AQUA STILL D WITH MOMENTARY WATER SWITCH MADE BY CARLING