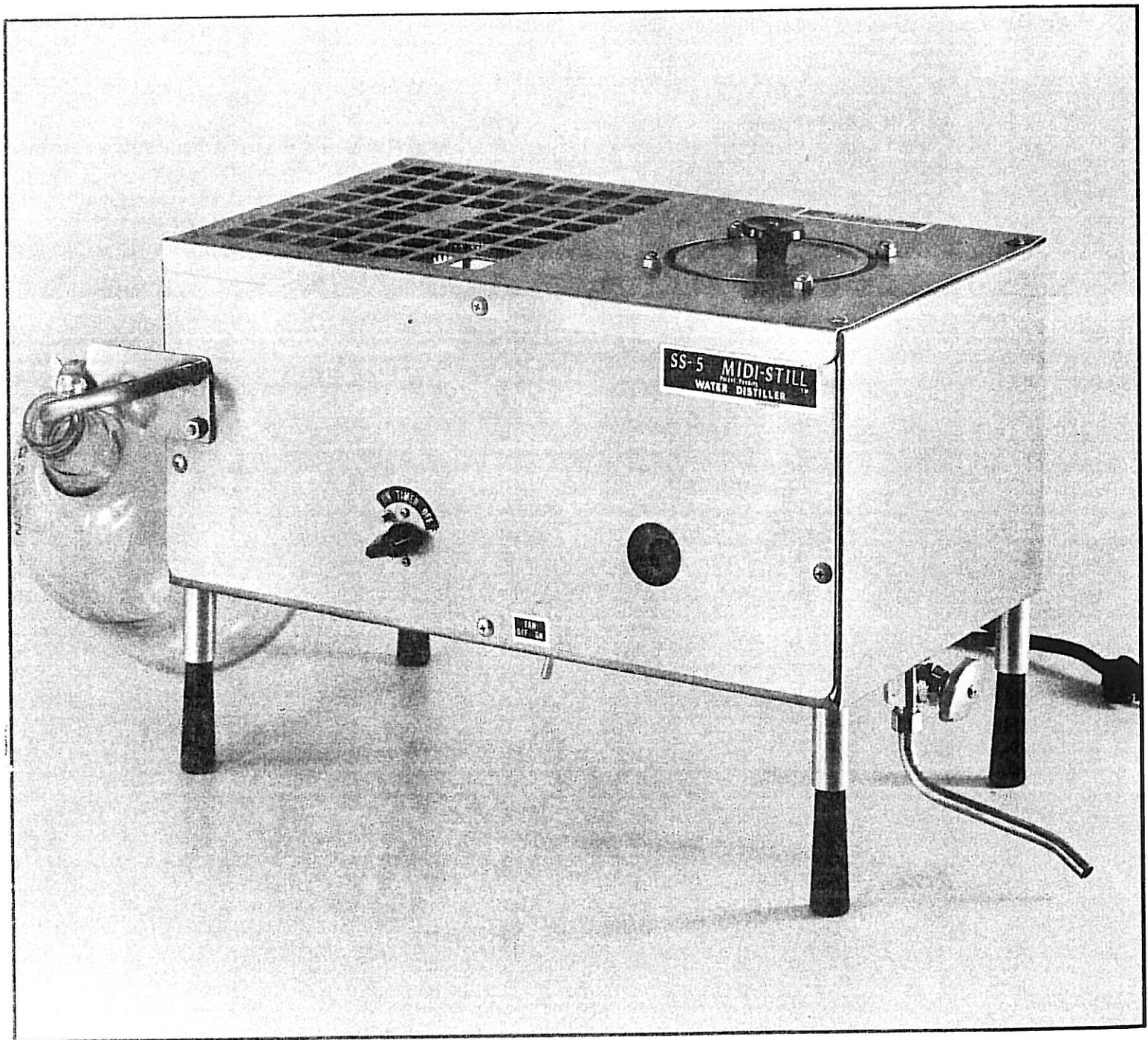


# SS-5 MIDI STILL

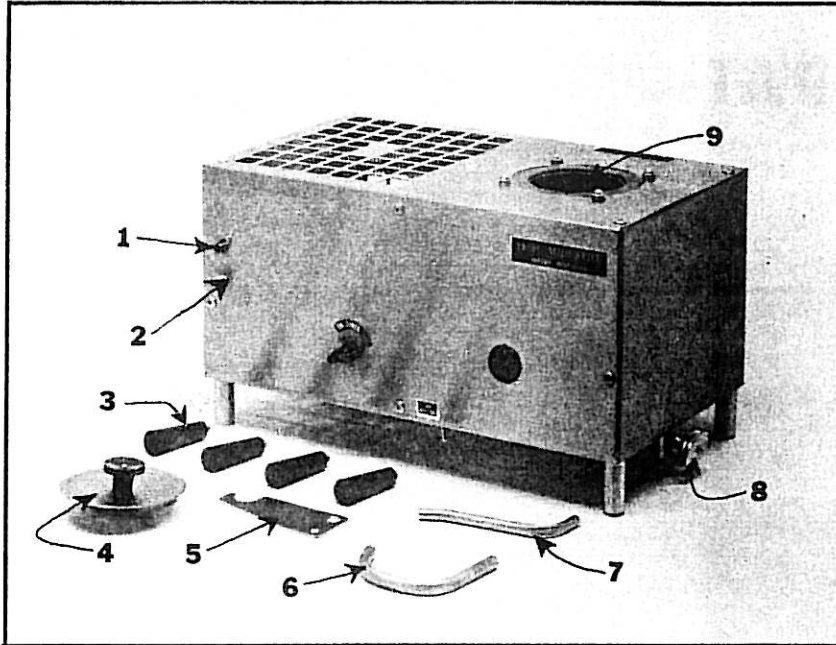
## INSTRUCTIONS FOR ASSEMBLY AND OPERATION



IT WOULD BE HELPFUL IF THE USER WOULD STUDY THE FOLLOWING ILLUSTRATIONS PRIOR TO AND DURING ASSEMBLY AND OPERATING THIS UNIT.

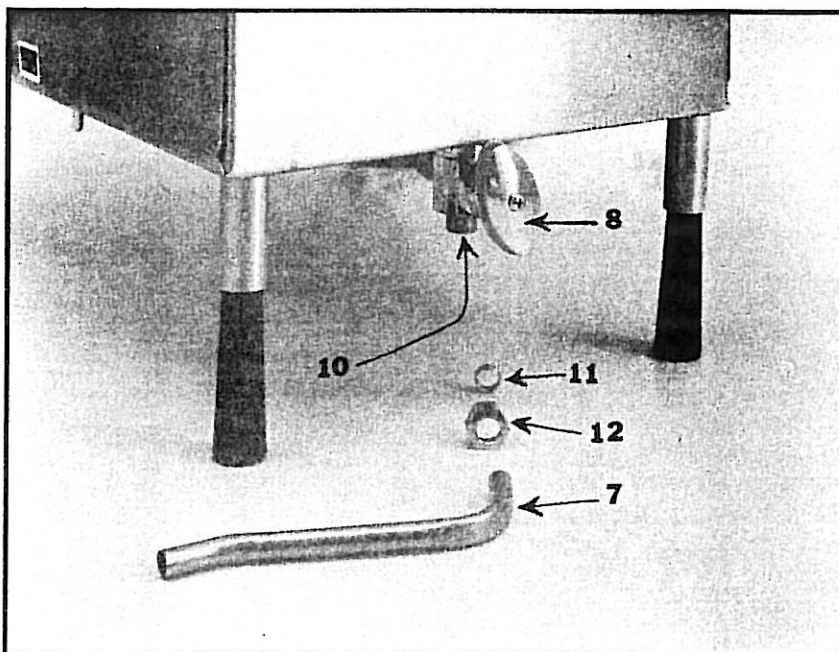
FIG-1 SS-5 MIDI-STILL AND PARTS

SS-5 MIDI-STILL UNASSEMBLED



1. Condensing Coil outlet tube
2. Stud and nut for holding Bottle Hook
3. Legs
4. Boiling Tank Lid
5. Bottle Hook
6. Condensing Coil Extension Tube
7. Boiling Tank Drain Extension Tube
8. Boiling Tank Drain Valve
9. Boiling Tank Opening

FIG-2 INSTALLATION OF BOILING TANK DRAIN EXTENSION TUBE



7. Boiling Tank Drain Extension Tube
8. Boiling Tank Drain Valve
9. Boiling Tank Opening
10. Drain Valve Opening
11. Brass Compression Ring
12. Compression Nut

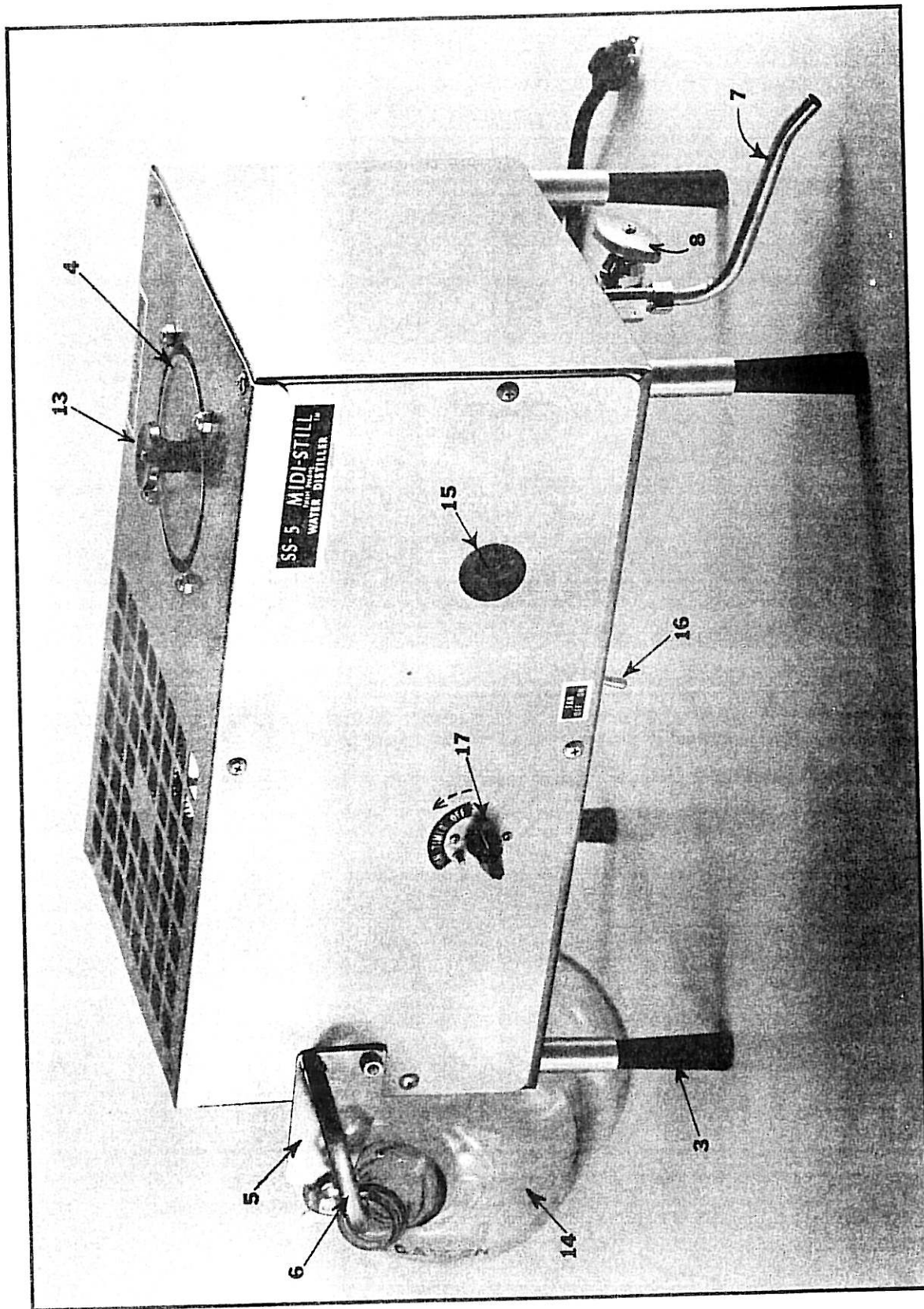
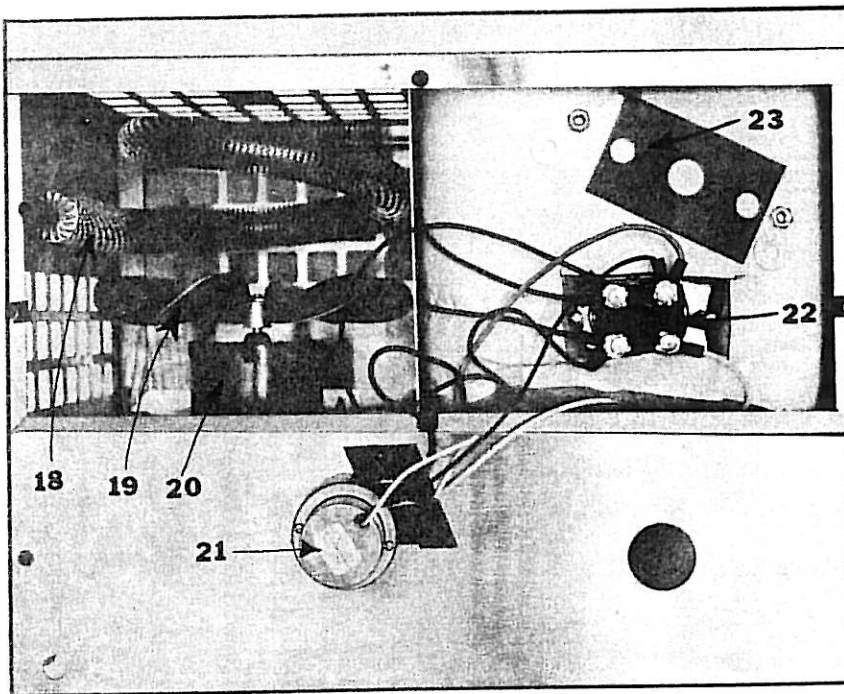


FIG-3 - MIDI-STILL ASSEMBLED

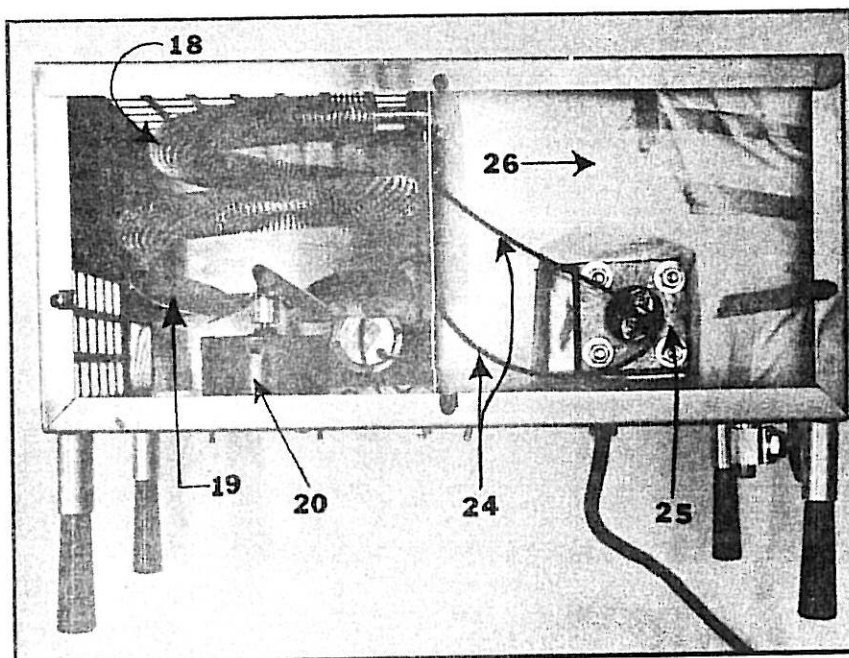
- |                                   |                                      |
|-----------------------------------|--------------------------------------|
| 3. Legs                           | 15. Reset                            |
| 4. Boiling Tank Lid               | 16. Fan Switch                       |
| 5. Bottle Hook                    | 17. Timer Knob                       |
| 6. Condensing Coil Extension Tube |                                      |
|                                   | 7. Boiling Tank Drain Extension Tube |
|                                   | 8. Boiling Tank Drain Valve          |
|                                   | 13. Lid Knob                         |
|                                   | 14. One Gallon Glass Jug             |

FIG-4 - VIEW OF UNIT FRONT COVER REMOVED



- 18. Condensing Coil
- 19. Fan
- 20. Motor
- 21. Timer
- 22. Reset
- 23. Reset Retaining Plate

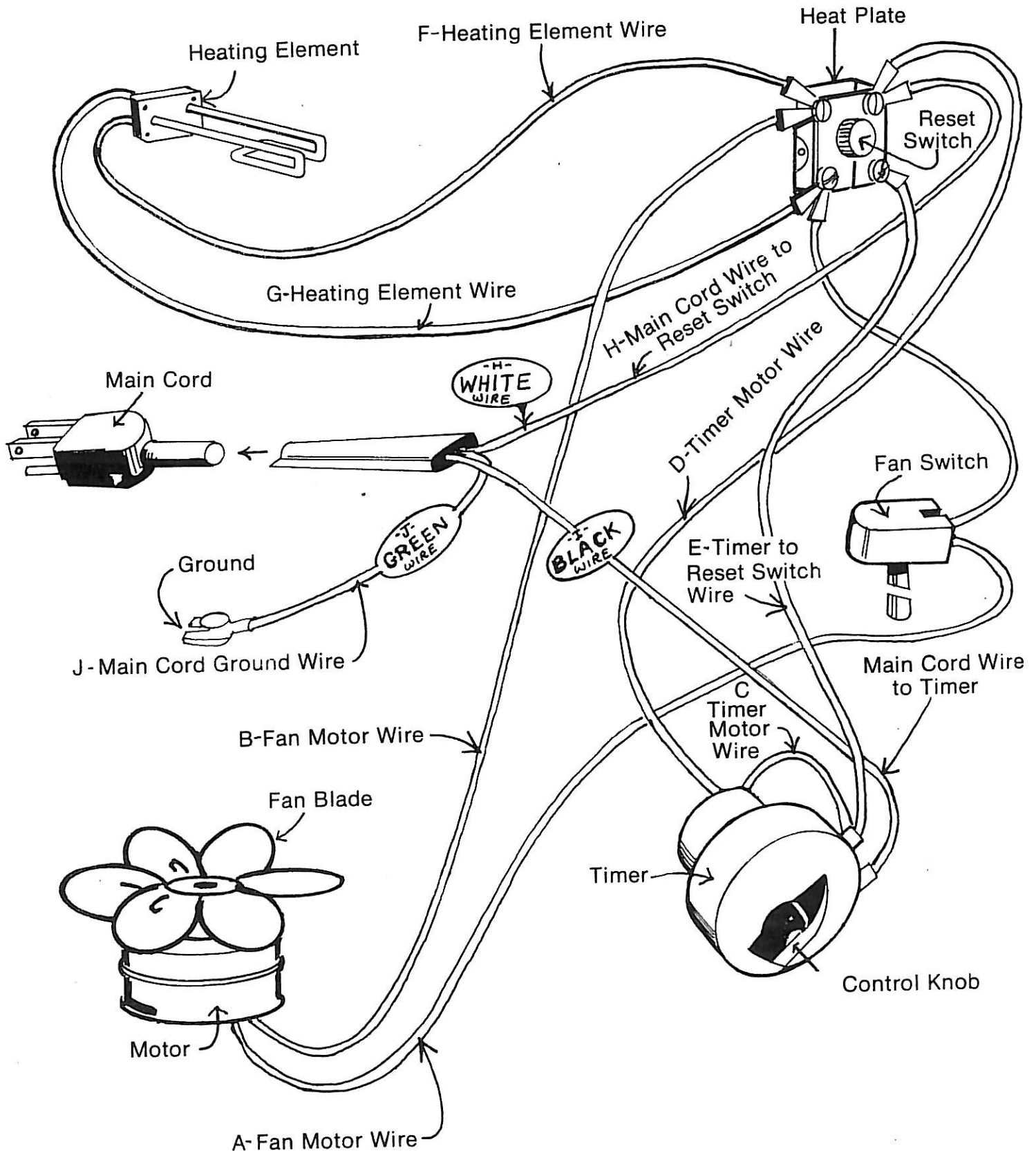
FIG-5 - REAR VIEW OF UNIT COVER REMOVED



- 18. Condensing Coil
- 19. Fan
- 20. Motor
- 24. Heat Element Wire
- 25. Heat Element
- 26. Boiling Tank



# Parts & Wiring Diagram



- 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 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 when not in use, 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, and 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.

- 8) 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 Society, Inc., 3725 Touzalin, P. O. Box 83226, Lincoln, NE 68501.

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

## A S S E M B L Y

When opening box, save everything until unit is in operation. When unpacking the unit, you will find the following parts packed in a bag. (See FIG-1)

- |                    |                                     |
|--------------------|-------------------------------------|
| 4 Black Legs       | 1 Boiling Tank Drain Extension Tube |
| 1 Bottle Hook      | 1 Condensing Coil Extension Tube    |
| 1 Boiling Tank Lid |                                     |

(The container to catch the distilled water must be furnished by the owner. The unit is designed to be used with a one gallon glass jug as shown in the illustrations.)

1. Install Legs (Fig 3-3). Turn unit upside down and screw legs into threaded holes provided.
2. Install Bottle Hook (Fig 3-5). Remove nut from stud located on front unit just below condensing coil outlet. Large hole in bottle hook fits over condensing coil outlet, and small hole over stud. Secure bottle hook in place by replacing nut on stud and tightening snugly.
3. Install Condensing Coil Extension Tube (Fig 3-6). The long end of tube should be slipped over the short tube of the condensing coil which comes out at the front of the unit. The other end then goes into the one gallon glass jug. Leave approximately a  $\frac{1}{4}$ " gap between the condensing coil extension tube and the "fins" of the condensing coil.
4. The Boiling Tank Lid (Fig 3-4) will not be used until the unit is filled with water. You may note that by loosening the black knob (Fig 3-13) 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 filled with water.
5. Install Boiling Tank Drain Extension Tube (Fig 2-7). The boiling tank drain extension tube will allow the user to drain the boiling tank into the sink 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 (2-12) over the tube, small opening first; then, slip on the brass sleeve (Fig 2-11).
  - b. Push the tube into the opening of the drain valve (Fig 2-10).
  - c. Next, thread the nut onto the boiling tank drain valve.

## OPERATION OF UNIT

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 and two distillation cycles prior to distilling water for usage. In addition, we strongly recommend that the container used to catch the distilled water be made of either stainless steel or glass and that this container be cleaned with hot, soapy water and rinsed thoroughly before being used to catch distilled water.

### STEAM STERILIZATION

1. Place container to catch water on bottle hook (Fig 3). Although mostly steam will come out of the extension tube, some condensation may possibly occur.
2. Remove lid, fill with water until the water touches the water level gauge. (Water level gauge is located just to the rear, inside of tank opening. Fig 1-9).
3. Replace lid and make sure it fits in proper groove so that steam does not escape. Tighten lid knob. (Fig 3-13).
4. Place the fan switch (Fig 3-16) in the "OFF" position. This will allow steam to pass through the condensing coil and sterilize the unit.
5. Plug the cord into an electrical outlet (120 Volt AC, Single Phase).
6. Turn the timer knob (Fig 3-17) left, counterclockwise, to the "ON" position. Run unit for about 10 minutes after water comes to a "full boil."
7. Drain water from boiling tank.
8. Should unit fail to run, refer to the "Trouble Shooting" section at the back of the instructions.

**CAUTION:** DO NOT plug unit into electrical outlet unless the water in the tank is at the proper depth; to do so would shorten the life of the heating element unnecessarily.



## DISTILLATION

1. Place one gallon glass jug to catch water on the bottle hook (Fig 3).
2. Remove lid and fill with water until the water just touches the water level gauge.
3. Replace the lid and tighten the knob. (Fig 3-13).
4. Place the fan switch in the "ON" position. (Fig 3-16)
5. Plug cord into electrical outlet (120 Volt AC, Single Phase).
6. Turn timer knob left, counterclockwise, to the "ON" position (Fig 3-17).
7. The boiling tank must be refilled before each distillation cycle.
8. Should unit fail to run, refer to the "Trouble Shooting" section at the back of the instructions.

NOTE: FILLING WATER ABOVE BOTTOM OF LEVEL GAUGE MAY ALLOW UNDISTILLED WATER TO FLOW INTO THE CONDENSING COIL AND OUT INTO USER'S CONTAINER. DO NOT OVERFILL!

THIS UNIT SHOULD BE OPERATED IN A SPOT AWAY FROM OTHER HEAT SOURCES. THE LOWER THE TEMPERATURE OF THE ROOM THE BETTER FOR DISTILLATION.

## 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 3rd distillation cycle. This will 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 noticable amount of mineral build up around the outside of the heating element. The frequency in which the unit is cleaned will vary from one area to another, depending upon the mineral content present in that area.

For cleaning we suggest that you use either a solution of white vinegar and water, 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 Boiling Tank:

1. Make sure the unit is turned "OFF" and disconnected from electrical source
2. Drain the boiling tank.
3. Fill boiling tank half full of water.
4. Add cleaning solution - white vinegar, Lumen No. 2, or cleaner of your choice to the water in boiling tank.
  - a. If white vinegar is used, add  $\frac{1}{2}$  to 1 quart of vinegar to water.
  - b. If Lumen No. 2 is used, add 3 to 5 tablespoonsful to water.
  - c. If cleaner of your choice is used, use manufacturer's recommended dosage.

(The amount of cleaner you use may need to be increased depending upon the kind and type of mineral deposits in your boiling tank.)

5. Mix well.
6. Fill with water to the water level gauge.
7. 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.
8. The next morning drain and rinse the boiling tank thoroughly.
9. Be sure to refill the unit with water before beginning to distill water again.

## TROUBLE SHOOTING

A. Should your unit not run, do the following:

1. Reset may have "kicked" off. (Fig 3-15)

- a. If unit is hot, allow to cool down. Cooling may be hastened by draining the boiling tank and refilling with cold water.
- b. Fill with water to water level gauge.
- c. When the unit is cool, take a pencil, use the eraser end and push firmly against the reset button. Listen for a "click." If you do not hear a "click," it may be necessary to let the unit cool down a little longer.

2. Plug the unit in.

3. Turn fan switch to "ON" position. (Fig 3-16)

4. Turn timer left, counterclockwise, to the "ON" position. (Fig 3-17)

5. 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.

B. Should it ever be necessary for you to install parts, always disconnect the unit from the electrical wall outlet.

C. Do not use an extension cord.

D. This machine, like all electrical appliances, should be properly grounded.

E. Should a leak appear where the condensing coil and condensing coil extension tube are joined together, this is not a defect in the machine but rather an indication of a low spot somewhere in the coil or at the condensing coil extension tube. To correct this problem, place the extension tube on the condensing coil as for normal use and push down on the end of the extension tube which will in turn raise the back of the coil. There must be gravity or downward flow from where the condensing coil hooks to the boiling tank to where the distilled water is collected.