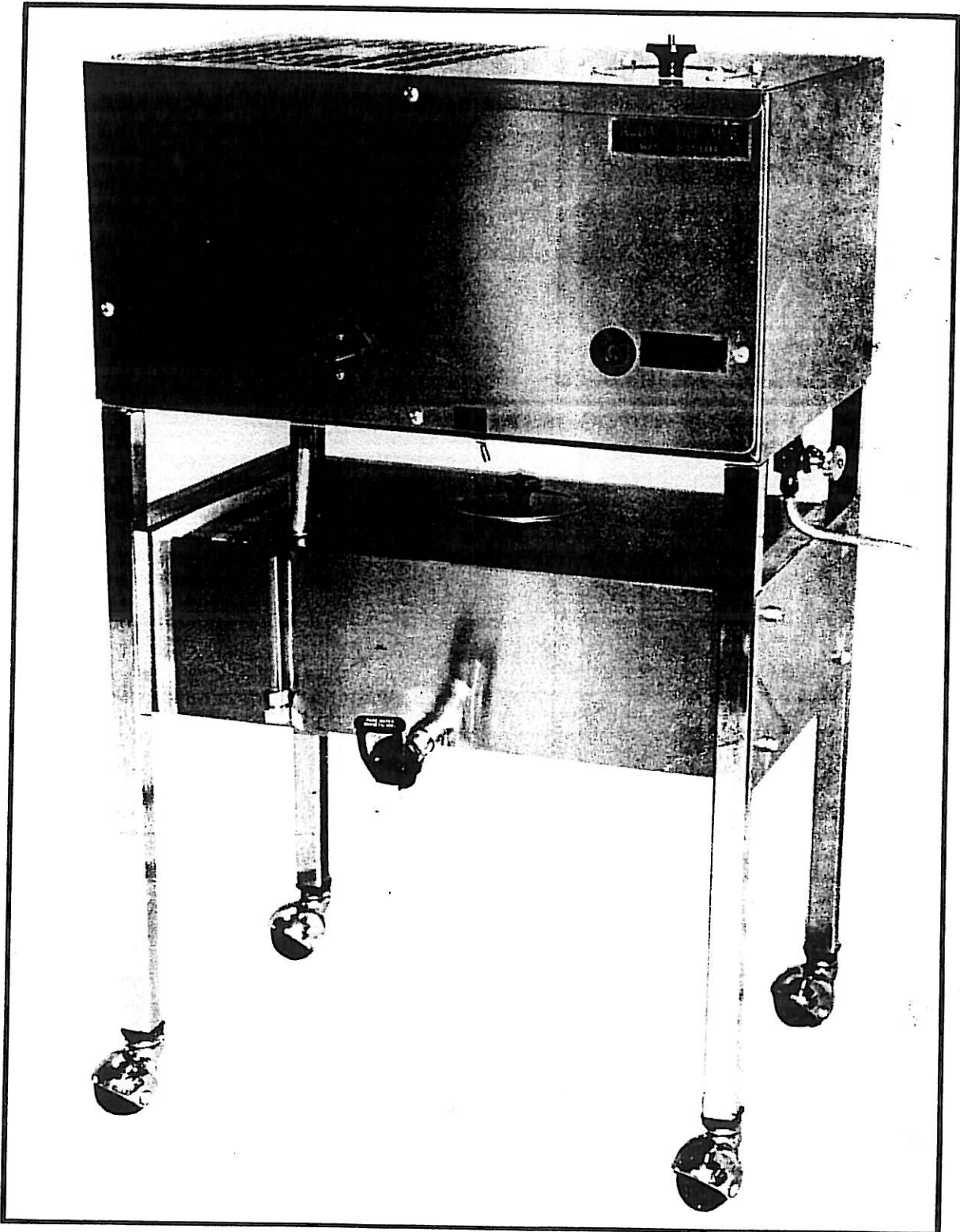


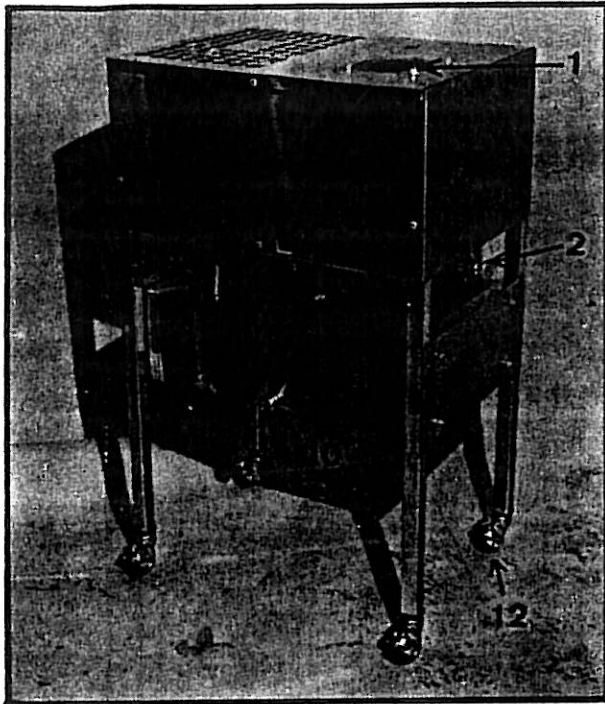
# M-6 AQUA STILL

## Instructions for Assembly and Operation



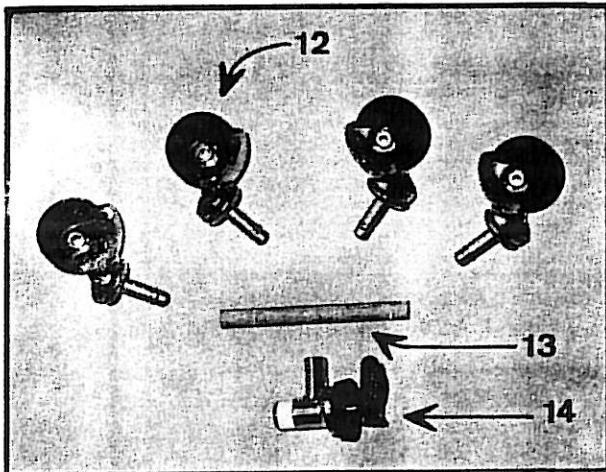
IT WOULD BE HELPFUL IF THE USER WOULD STUDY THE FOLLOWING ILLUSTRATIONS PRIOR TO AND DURING ASSEMBLY AND OPERATING THIS UNIT.

FIG 1 M- 6 AQUA STILL — FRONT VIEW UNASSEMBLED



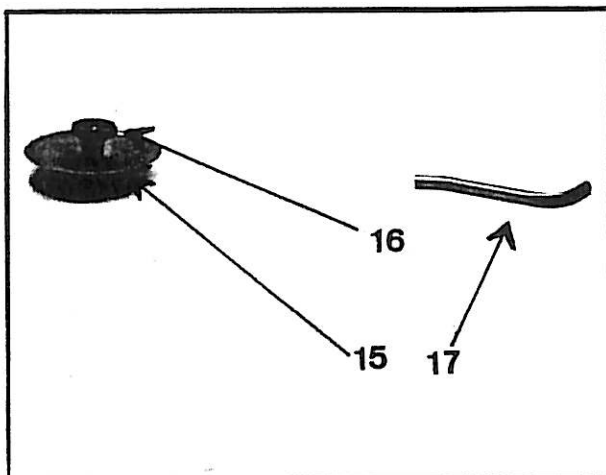
- 1. Boiling tank opening
- 2. Boiling tank drain valve
- 3. Reset
- 4. Timer knob
- 5. Fan switch
- 7. Condensing coil extension tube
- 8. Gasket and washer
- 9. Tank and stand
- 10. Coupling
- 11. Storage tank sight guage
- 12. Casters

FIG 2 CONTENTS OF STORAGE TANK PARTS BOX



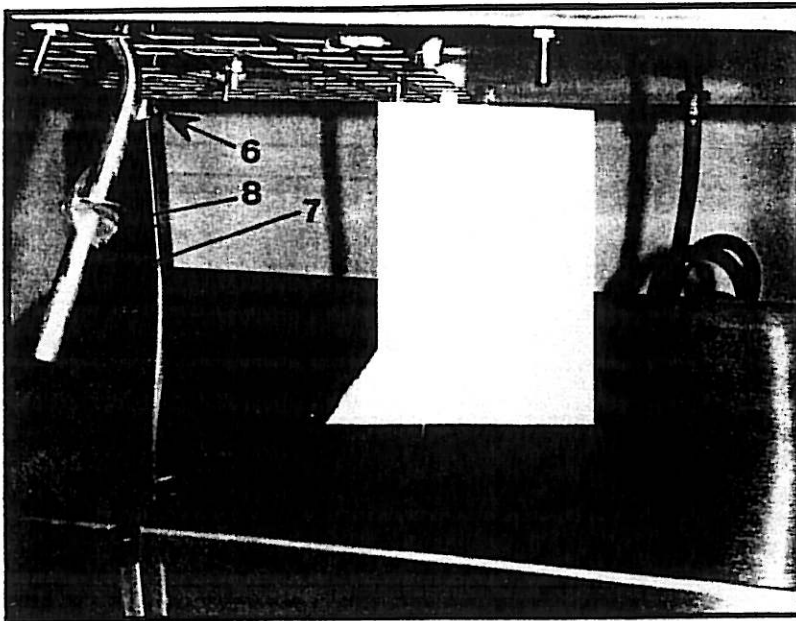
- 12. Casters
- 13. 3/8" wood dowel
- 14. Storage tank drain valve

FIG 3 PARTS WHICH COME WITH DISTILLER PORTION



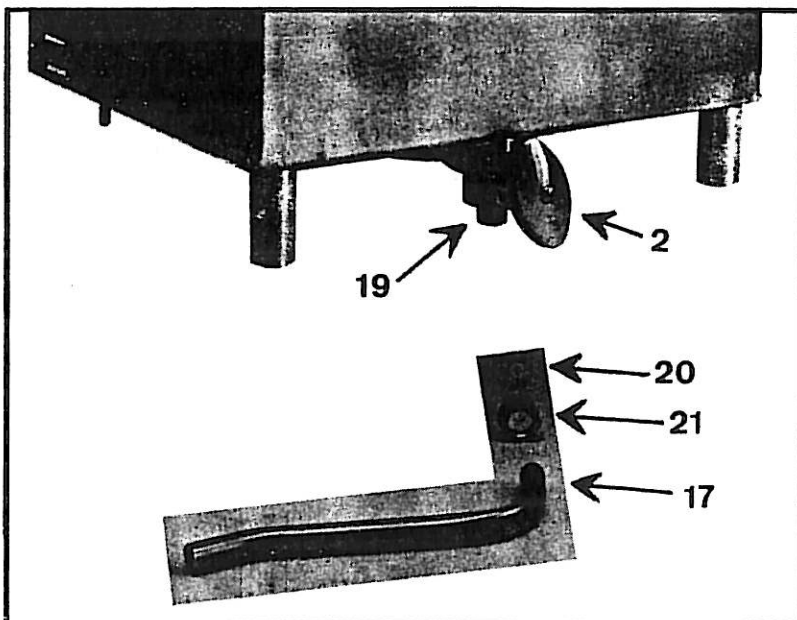
- 15. Boiling tank lid
- 16. Lid knob
- 17. Boiling tank drain extension tube

FIG 4 DETAIL SHOWING CONDENSING COIL EXTENSION TUBE BEING CONNECTED TO STORAGE TANK.



- 6. Leg
- 7. Condensing coil extension tube
- 8. Gasket and washer
- 18. hole for extension tube in storage tank.

FIG 5 INSTALLATION OF BOILING TANK DRAIN EXTENSION TUBE



- 2. Boiling tank drain valve
- 17. Boiling tank drain extension tube
- 19. Drain valve opening
- 20. Brass compression ring
- 21. Compression nut

FIG 6 M-6 AQUA STILL ASSEMBLED

- |                                   |                                       |
|-----------------------------------|---------------------------------------|
| 2. Boiling tank drain valve       | 11. Storage tank sight gauge          |
| 3. Reset                          | 12. Casters                           |
| 4. Timer knob                     | 14. Storage tank drain valve          |
| 5. Fan switch                     | 15. Boiling tank lid                  |
| 7. Condensing coil extension tube | 16. Lid knob                          |
| 8. Gasket and washer              | 17. Boiling tank drain extension tube |
| 9. Tank and stand                 | 22. Storage tank lid                  |

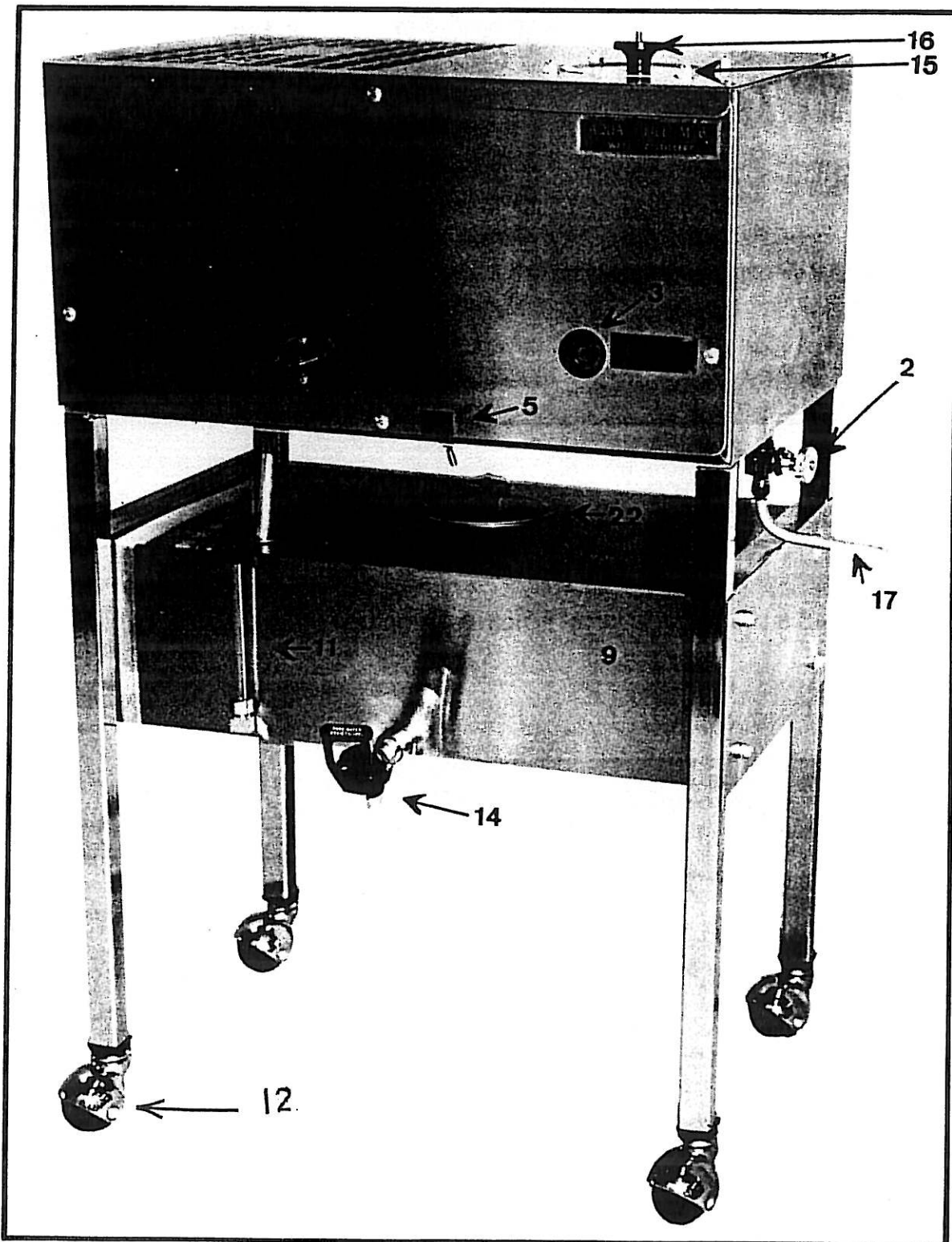
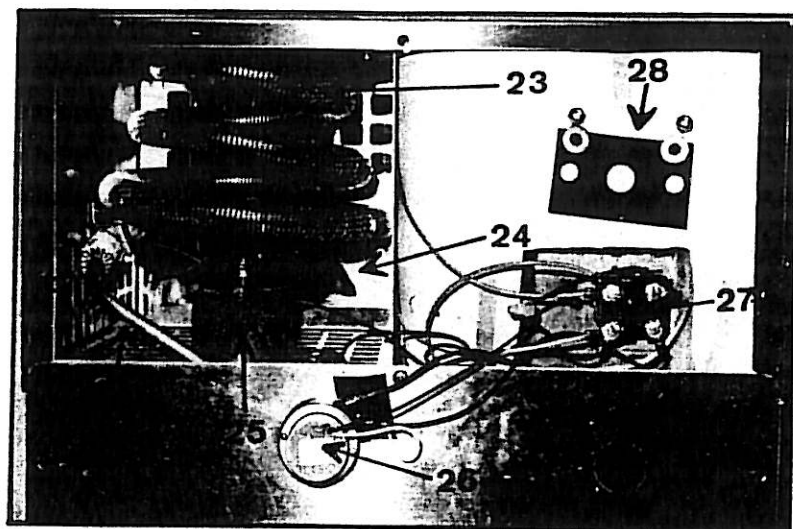
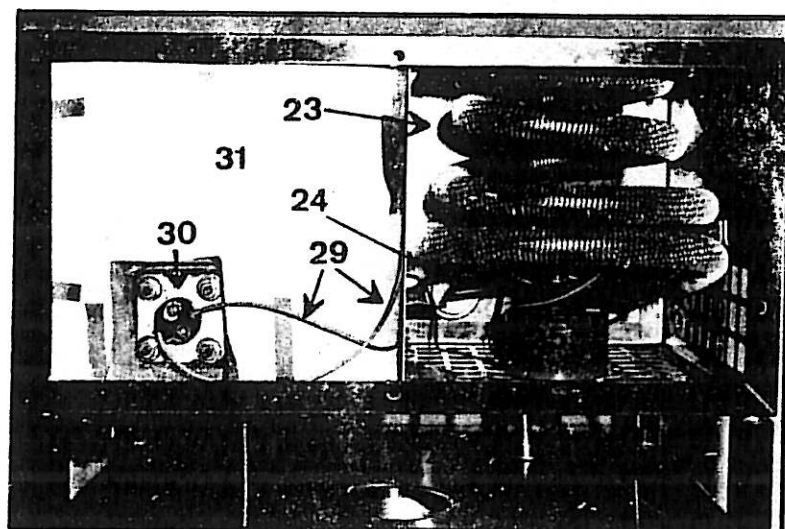


FIG 7 VIEW OF UNIT FRONT COVER REMOVED



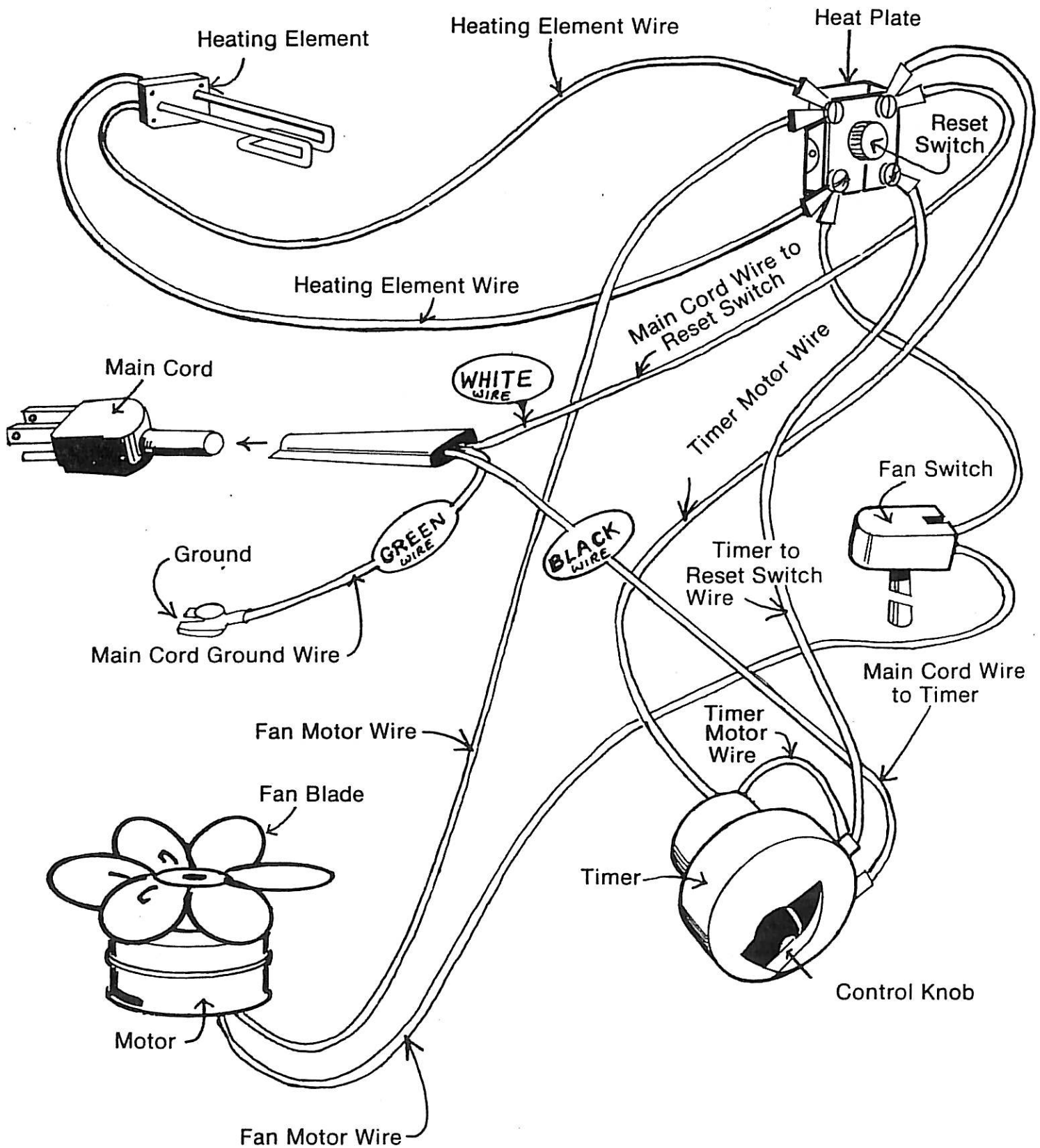
- 23. Condensing coil
- 24. Fan
- 25. Motor
- 26. Timer
- 27. Reset
- 28. Reset retaining plate
- 7. Condensing coil extension tube

FIG 8 REAR VIEW OF UNIT COVER REMOVED



- 23. Condensing coil
- 24. Fan
- 25. Motor
- 29. Heating element wires
- 31 Boiling tank.
- 30. Heating element

# 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 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. Do not leave this unit unattended overnight any more than you would a coffee pot or pan of boiling water.
  - c. Unplug the unit from the electrical source when not in use, before putting on or removing parts, and before cleaning.
  - d. 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.
  - e. Do not use an extension cord.
  - f. The unit should not be operated outdoors or be exposed to the natural elements (rain, snow, and so forth).
  - g. 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) You will notice that the condensing coil, located inside the unit at the left (as you face the front of the unit), will have one small hole drilled in its top. This hole is not a defect, rather, it is provided to release certain volatile gases. Should some steam escape from this hole, this should be of no alarm to you.
- 9) 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.

## ASSEMBLY

The M-6 Aqua Still will be shipped in two (2) separate boxes. One box contains the top "Distiller 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.

A. Assembling the unit — begin by unpacking the "Storage Tank and Stand." In addition to the "Storage Tank and Stand" you will find the following parts packed in a small box (FIG 2)

4 Casters  
1 Storage tank drain valve

1 3/8" Wood dowel

1. Install the Casters (FIG 2-11). Turn the "Tank and Stand" upside down. Push the metal stem of the casters into the plastic insert at the bottom of each leg.

2. Install Storage tank drain valve (FIG 2-13). Turn unit back in upright position. Thread the storage tank drain valve into the coupling (FIG 2-10) (DO NOT REMOVE THE WHITE THREAD TAPE FROM THE THREADS.) Using the 3/8" wood dowel (FIG 2-13), insert it into the drain valve outlet and tighten snugly.

B. Unpack the top distiller portion of the M-6 Aqua Still. When opening the box you will find the following parts (FIG 3):

1 Boiling tank lid

1 Boiling tank drain extension tube

1. Assemble Top Portion of Distiller to Storage Tank and Stand (See FIG 6)

a. The base of the distiller has one (1) short round leg at each corner (FIG 4-6). These round legs are to be inserted into the square tube legs at each corner of the stand. Put back leg in first and then guide condensing coil extension tube (FIG 4-7) into opening in storage tank as front legs are placed in top of stand.

b. Remove tape holding gasket and washer (FIG 4-8) and slip down tube to cover opening where tube is inserted. (FIG 6) shows distiller portion stand with condensing coil extension tube and gasket and washer installed.

2. The Boiling tank lid (FIG 3-15) will not be used until the unit is filled with water. You may note that by loosening the black knob (FIG 3-6) 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.

3. Install Boiling tank drain extension tube (FIG 5-17). 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 (FIG 5-21) over the tube, small opening first; then, slip on the brass sleeve (FIG 3-20)

b. Push the tube into the opening of the drain valve (FIG 5-19)

c. Next, thread the nut onto the boiling tank drain valve.

d. Push the tube firmly into the tube opening and using a wrench tighten the compression nut.

e. FIG 6-17 shows boiling tank drain extension tube installed.

Prior to using, it might be well to place water in the boiling tank and open drain valve to make sure that there are no leaks and that the connection is tight enough.



## 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.

### STEAM STERILIZATION

1. Remove Boiling Tank Lid (FIG 16-15), 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 1-1).
2. Replace lid and make sure it fits in proper groove so that steam does not escape. Tighten lid knob (FIG 6-16).
3. Make sure that reset button (FIG 6-3) is pushed in. Most people find that taking the eraser end of a pencil and pushing firmly against the reset button works better than using their finger; listen for a click.
4. Place the fan switch (FIG 6-5) in the "OFF" position. This will allow steam to pass through the condensing coil and sterilize the unit.
5. Open storage tank drain valve (FIG 6-14) and place container under opening. Although mostly steam is produced, some condensation may occur. After initial sterilization this cycle may be run periodically without storage tank drain valve open.
6. Plug the cord into an electrical outlet (120 Volt AC, Single Phase).
7. Turn the timer knob (FIG 6-4) left, counterclockwise, to the "ON" position.
8. Allow machine to run 15 to 20 minutes after water has come to full boil. Drain and rinse the boiling tank.

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

## DISTILLATION

1. Remove boiling tank lid and fill with water until the water just touches the water level gauge.
2. Replace the lid and tighten the knob. (FIG 6-16)
3. Make sure reset has been pushed in. (FIG 6-3) (Following a "Steam Sterilization Cycle," it may be necessary to wait a few minutes before pushing reset since a great amount of heat is produced in this cycle.) You should be able to hear the reset "Click." If you do not, it may be necessary to let the unit cool down a little longer. Most people find that taking the eraser end of a pencil and pushing firmly against the reset button works better than using their finger.
4. Place the fan switch in the "ON" position. (FIG 6-5)
5. Plug cord into electrical outlet (120 Volt AC, Single Phase).
6. Turn timer knob left, counterclockwise, to the "ON" position (FIG 6-4).
7. A full cycle will take approximately 4½ hours.
8. The boiling tank must be refilled before each distillation cycle.
9. Storage tank sight gauge (FIG 6-11) shows amount of distilled water in storage tank.

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

## M6- Aqua Still Parts List

<u>Part #</u>	<u>Description</u>
68	Bib washer
636	Cap nuts (4 pak)
941	Castors (set of 4) w/ inserts
606	Condensing coil w/ fittings
4032	Condensing coil extension tube
6010	Cover gasket, boiling tank
9508	Drain valve, side
95	Drain valve, bottom
518	Drain valve extension tube
639	Fan blade w/ fastener
653	Fan motor w/ blade & conn.
642	Fan switch, plastic
71	Fan switch, toggle style
9505	Faucet, Tomlinson - Storage Tank
9570	Faucet, stor. tank w/5 gal. site glas
9575	Faucet, stor. tank w/10 gal. site gla
4508	H-frame, 5-gallon tank - 1 side
4546	H-frame, 10-gallon tank - 1 side
634	Heating element w/ gasket & clamp
605	Level guage, plastic - Storage Tank
409	Lid complete
610	Lid knob w/gasket, washer & o ring
402	Lid crossbar w/stud
7039	Reset
638	Screws, sheetmetal (12 pak)
637	Speed clips (12 pak)
640	Timer w/ conn.

\* Storage tank faucets are not interchangeable with original style.