

SS-4D MIDI-STILL
DIRECTIONS FOR USE AS
AUTOMATIC DIRECT WATERLINE UNIT

When you receive your SS-4D Midi-Still, it will be set up to be used as a manual-fill, portable unit.

To change the unit for direct waterline use, follow the steps and illustrations on sheet #3 by using parts in the kit furnished.

KIT TO INCLUDE: See Illustrations on sheet #3

1. Flexible tubing 1/4 O.D. x 20 ft.
2. Straight adapter 1/8 NPT female x 1/4 O.D. compression fitting.
3. Nylon stiffener (for use with flexible tubing only).
4. Nylon compression ring (for use with flexible tubing only).
5. Saddle clamp assembly packet (see illustration).

DIRECTIONS FOR HOOKING UP DIRECT WATERLINE:

- A. Remove 1/8 NPT pipe cap in rear of unit.
- B. Connect straight adapter to pipe fitting in rear of unit after 1/8 NPT pipe cap has been removed.
- C. If the flexible tubing is to be used, the nylon stiffener insert must be placed inside the flexible tubing and the nylon compression ring must be used in place of the metal compression ring. With the nylon stiffener and compression ring in place, tighten compression nut to adapter making the connection at the rear of unit complete.
- D. For Direct Waterline connection, select water pipe and location which will be convenient for connection.
- E. Turn water off in the line you selected. Then, drill a 1/4" diameter hole into the waterline preferably on top or on the side of a horizontal line.
CAUTION: Care should be taken in not getting water into the power drill or electrical lines when drilling the hole.
- F. The 90° valve must be screwed into the saddle and the rubber washer placed on the underside which will fit next to the water pipe.
- G. Assemble the saddle clamp onto the waterline (See illustrations on sheet #3).

- H. Refer to Step C for a similar procedure in assembling of flexible line into 90° valve.
- I. Turn main waterline on and open 90° valve completely. Check for leaks (The fittings may have to be tightened if any leaks occur).

DIRECTIONS FOR OPERATING AUTOMATIC DIRECT WATERLINE UNIT

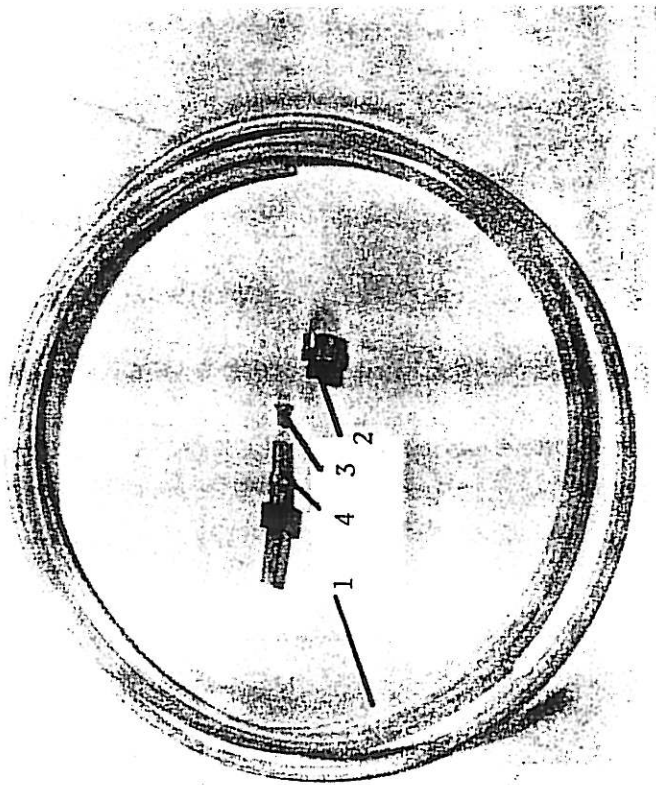
You have completed hooking your SS-4D unit up for automatic waterline use.

When you start the unit for the first time, add water up to the heating element to protect the heating element while it is filling. Turn unit on and it will fill automatically.

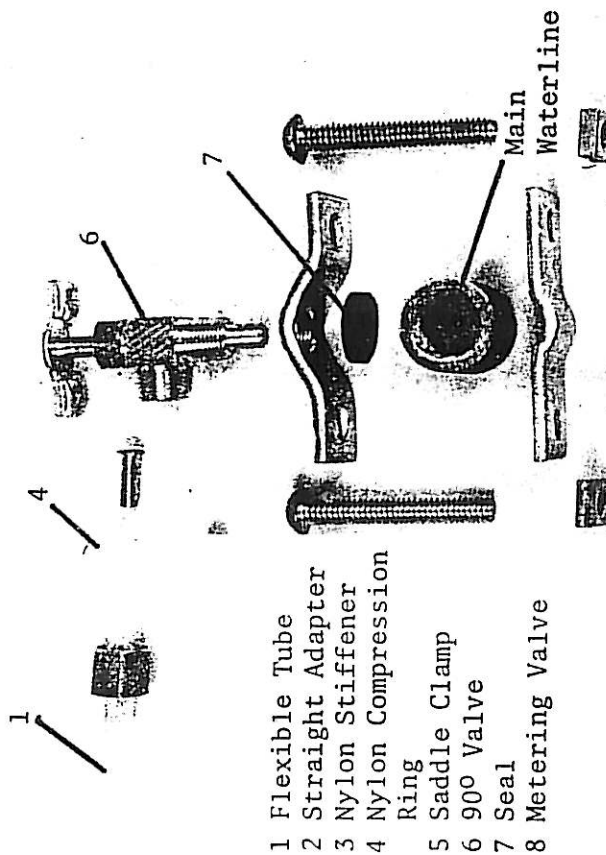
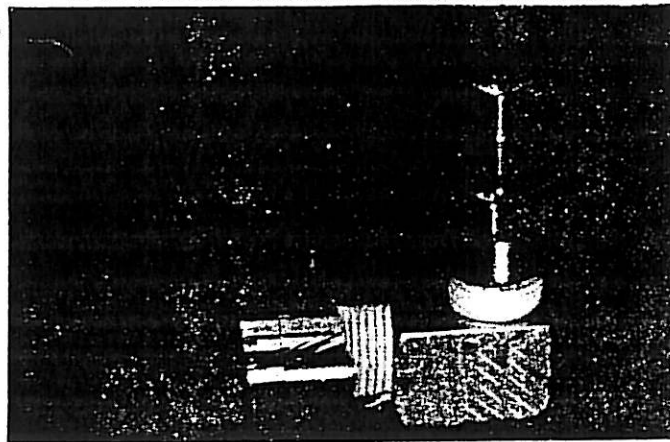
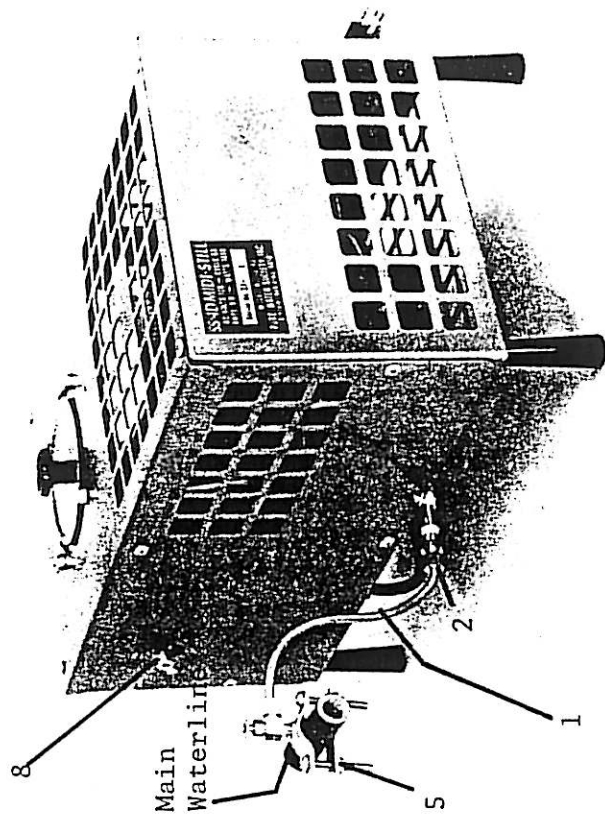
To operate the unit, follow the same steps as for manual fill-portable operation except fill your unit and select the size container you wish to distill into. Set the timer control selector for desired production up to 4 gallons.

A metering valve has been installed in the rear of the unit. This valve has been set at the factory 1/4 turn on. It can be adjusted if you find your machine producing more distilled water than is running into the boiling tank causing the water level to be down or below the heating element, the valve can be turned on approximately 1/8 of a turn at a time until you reach proper flow.

To clean your unit when hooked up for direct waterline use, turn the unit off, add water up to the water level gauge and add cleaner. Let soak, then open residue drain valve and drain residue and resin out thoroughly.



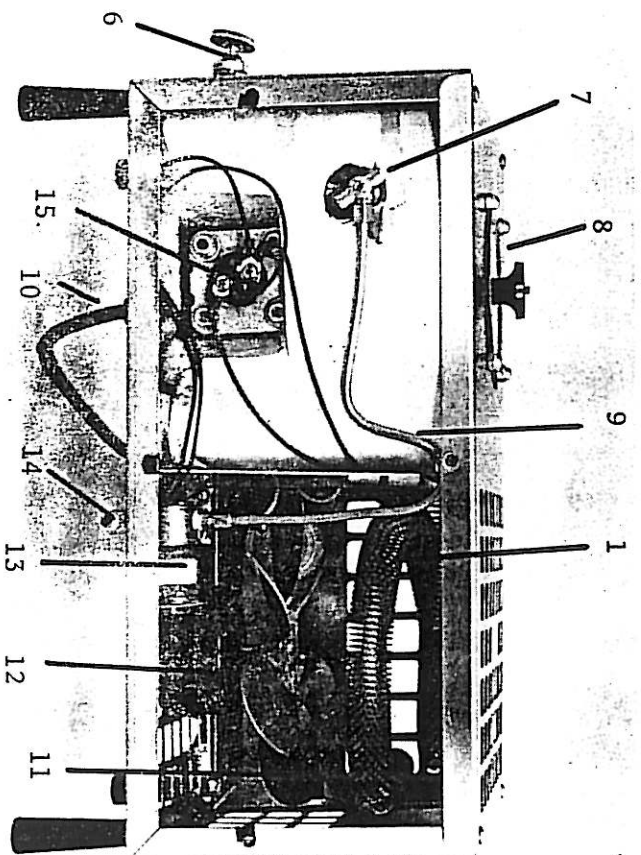
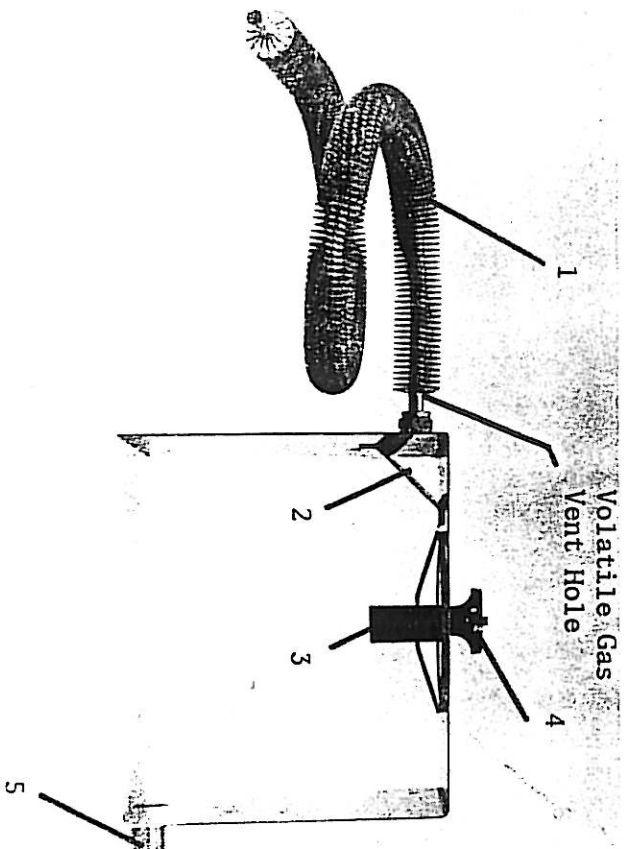
Rear View of Unit Showing Direct Waterline Hookup



Direct Waterline Hookup Kit

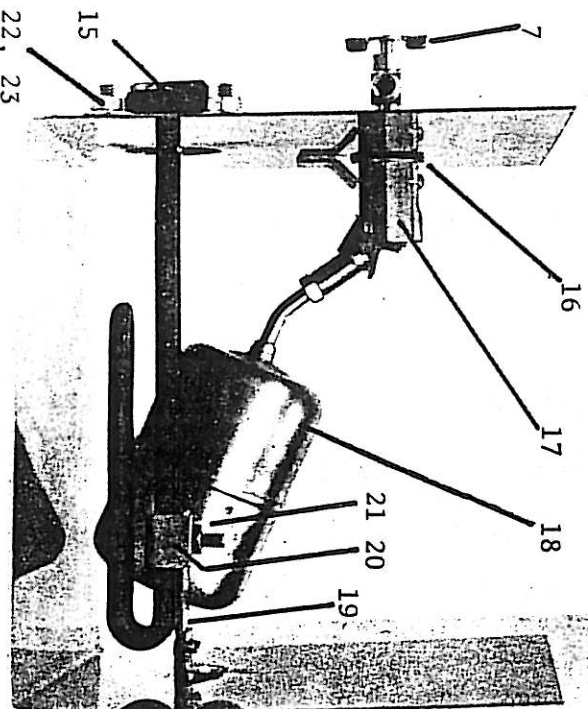
Connection at Rear of Unit

Saddle Clamp Assembly Connection to Main Waterline



Top of Boiling Tank - Side View

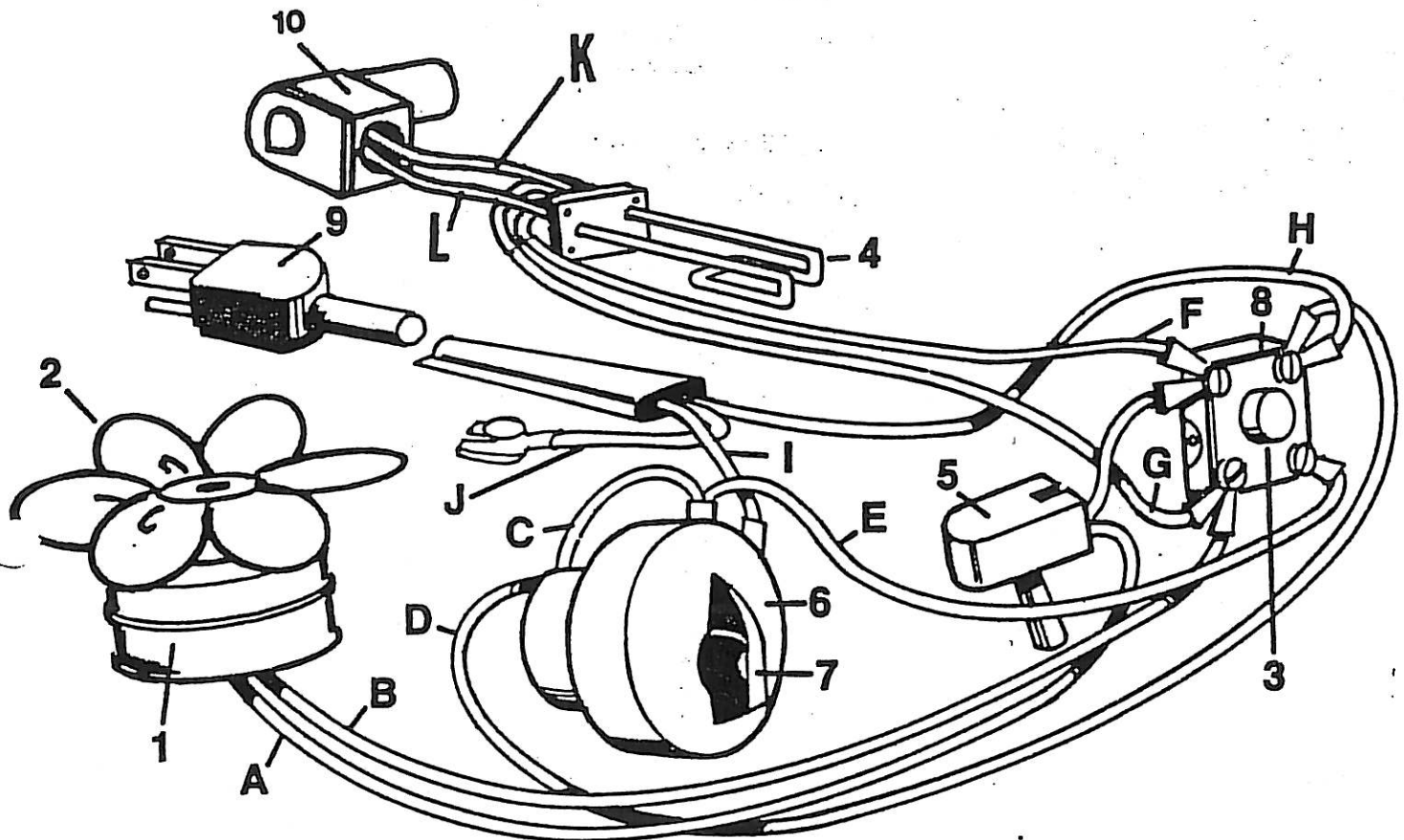
Rear View of Unit with Back Panel Removed



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|----|---------------------------|----|-----------------|
| 1 | Condensing Coil | 20 | U-Clamp |
| 2 | Baffle | 21 | 1/4 SS Nut |
| 3 | Level Gauge | 22 | 1/4 20 Nut |
| 4 | Lid Knob | 23 | 1/4 Dia. Washer |
| 5 | Drain For Residue | | |
| 6 | Residue Drain Valve | | |
| 7 | Metering Valve | | |
| 8 | Lid | | |
| 9 | Waterline To Boiling Tank | | |
| 10 | Main Power Cord | | |
| 11 | Fan Blade | | |
| 12 | Fan Motor | | |
| 13 | Solenoid Shut Off Valve | | |
| 14 | Pipe Cap | | |
| 15 | Heating Element | | |
| 16 | Seal | | |
| 17 | Float Valve | | |
| 18 | Float | | |
| 19 | Heat Tab | | |

Bottom of Boiling Tank - Side View

Parts & Wiring Diagram



A Fan Motor Wire
 B Fan Motor Wire
 C Timer Motor Wire
 D Timer Motor Wire
 E Timer to Reset Switch Wire
 F Heating Element Wire
 G Heating Element Wire
 H Main Cord Wire to Reset Switch
 I Main Cord Wire to Timer
 J Main Cord Ground Wire
 K Soleniod Valve Wire
 L Soleniod Valve Wire

1 Motor
 2 Fan Blade
 3 Reset Switch
 4 Heating Element
 5 Fan Switch
 6 Timer
 7 Control Knob
 8 Heat Plate
 9 Main Cord
 10 Soleniod Valve

SS-4D Parts List

<u>Part #</u>	<u>Description</u>
	<u>Price</u>
68	Bib Washer for drain valve
636	Cap nuts
607	Condensing coil w/ fittings
517	Condensing coil extension tube
9508	Drain valve (side)
95	Drain valve (bottom)
518	Drain valve extension tube
639	Fan blade w/ push nut fastener
653	Fan motor w/ blade
71	Fan switch, toggle style
602	Float, old style
618	Float valve
633	Heating element w/ gasket & clamp
409	Lid complete
610	Lid knob w/gasket,washer & o ring
402	Lid crossbar w/stud
8010	Leg, black plastic
9081	Leg riser, metal
76	Metering valve
7039	Reset
638	Screws, sheetmetal (12 pak)
53	Solenoid, brass
637	Speed clips (12 pak)
19005	Strainer, micron w/ comp. nuts
640	Timer w/ conn.