



OPERATION & SERVICE INSTRUCTIONS

SOLAR*PAL WALL FURNACE MODEL 8610C

The SOLAR*PAL is available in a choice of three control configurations. The furnace may be equipped with a wall thermostat, or with a remote bulb thermostat, for completely automatic operation. The furnace is also available with a manual operated valve.

The 8610C SOLAR*PAL wall furnace, designed for travel trailers, is a high output vented wall furnace, occupying a minimum of space. The furnace has been manufactured to exacting tolerances, requiring little or no maintenance.

OPERATING INSTRUCTIONS

Wall Thermostat or Remote Thermal Bulb Thermostat Control Lighting:

CAUTION:

Be sure gas valve knob has been in the "OFF" position at least five minutes before proceeding with any of the following lighting instructions.

- Be sure the wall thermostat or control dial is set below room temperature. Remove the lighter door from the furnace.
- Turn the gas valve knob to "PILOT". Press knob in and light burner. Keep knob depressed for 1 minute, or until pilot remains lit, and release.
- Turn knob counter-clockwise to "ON".

Operation:

With the furnace pilot lit and the control knob in the "ON" position, the furnace will operate automatically from the wall or bulb thermostat. Set the wall thermostat to the desired temperature. If the furnace is equipped with a bulb thermostat, set the temperature dial to the desired number (1 through 9). Settings may be made on or between any of the numbers 1 (minimum heat) through 9 (maximum heat).

Shut Down:

Press the knob in and turn clockwise to "OFF". Use this position when complete shutdown is desired. If the furnace is to be shut off temporarily, turn the knob to "PILOT".

OPERATING INSTRUCTIONS

With Manual Valve Lighting:

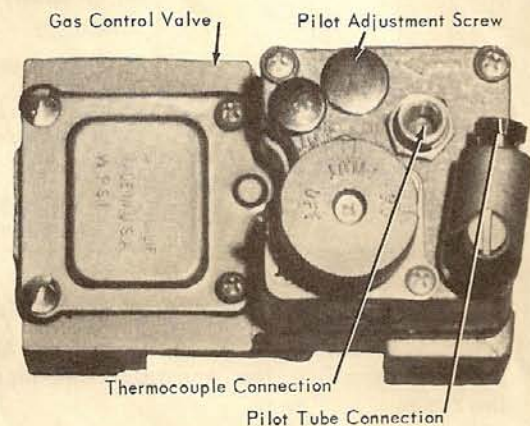
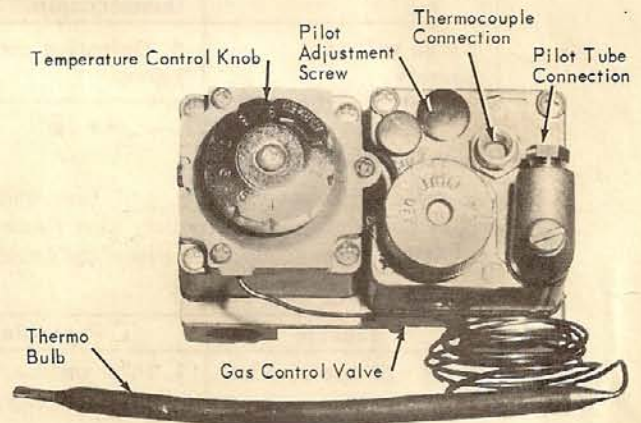
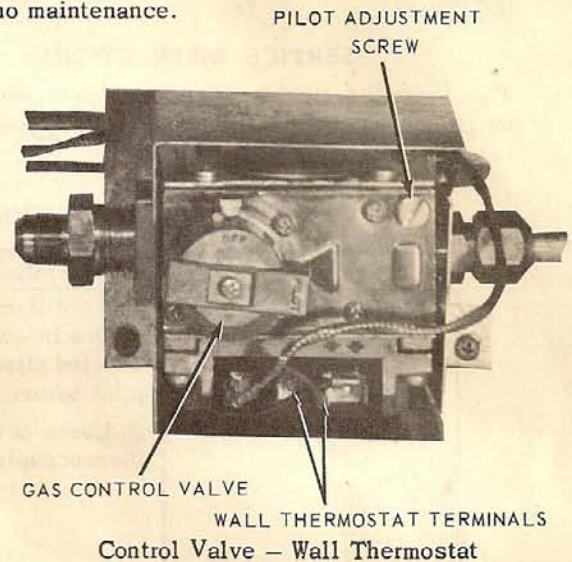
CAUTION:

Be sure the gas valve knob has been in the "OFF" position at least five minutes before proceeding with any of the following lighting instructions.

- Remove the lighter door from the furnace.
- Turn the gas valve knob to "PILOT". Press knob in and light pilot burner. Keep knob depressed for 1 minute, or until pilot remains lit, and release.
- Replace the lighter door.

Operation:

With the furnace pilot lit, the main burner may be operated between "ON" and "OFF" by turning the knob.



Control Valve - Manual

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Shut Down:

Press the knob in and turn clockwise to "OFF". Use this position when complete shutdown is desired. If the furnace is to be shut off temporarily, turn the knob to "PILOT".

SERVICE INSTRUCTIONS

The following trouble shooting charts should prove helpful in locating and eliminating any possible malfunctions.

MANUAL AND THERMAL BULB CONTROLS

Trouble	Probable Cause	Remedy
Pilot will not stay lit.	1. Pilot flame too small or yellow in color due to restricted pilot line, or dirty pilot burner.	Clean pilot line and pilot burner. Adjust pilot flame.
	2. Loose or dirty pilot thermocouple connection.	Disconnect pilot generator from valve, clean contacts with fine sandpaper. Tighten finger tight plus ¼ turn.
	3. Defective pilot thermocouple.	Replace thermocouple.
Valve will not operate.	4. Defective control valve.	Replace control valve.

Pilot Burner Adjustment

Remove pilot adjustment cover and turn underlying adjustment screw to produce steady blue flame covering top 1/4" of thermocouple. Replace the cover.

THERMOSTAT CONTROLS

Trouble	Probable Cause	Remedy
Pilot will not stay lit.	1. Pilot orifice, gas line, or pilot filter dirty.	Remove pilot assembly and clean.
	2. Pilot flame out of adjustment.	Readjust pilot flame.
	3. Thermostat wires open or grounded to furnace frame.	Locate damaged thermostat wiring and replace.
	4. Defective Pilot generator.	Replace pilot generator.
Valve will not open or close.	1. Defective wall thermostat.	Recalibrate or replace wall thermostat.
	2. Defective valve or valve operator.	Replace control valve.

Pilot Burner Adjustment:

Remove pilot burner adjustment cover and turn underlying adjustment screw to produce a steady blue flame surrounding the generator cartridge. Replace the cover.

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