

Sunpak Infrared Heater

-Two Stage Remote-

**Operating, Programming,
and Gas Type Conversion Instructions
for**

Model S34 TSR

These instructions are designed to be used in conjunction with Sunpak Installation, Operation & Maintenance Manual (P/N 65132). Should you have any questions regarding these instructions or need a copy of the Sunpak Manual, please contact the factory.

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Sunpak S34-TSR

The Sunpak S34 heater with the TSR hand held remote control provides radiant heat with both a high and low heat setting.

The Sunpak TSR is turned on and off with the wireless remote only, no wall switch is needed. Each heater comes pre-programmed with a remote control. Each heater can be programmed to recognize a total of three different wireless devices. Conversely multiple heaters can be programmed to operate off one device. Should a heater lose its programming, or if additional remote devices are to be used, see section below, "Programming Heater".

Initial Power-up of Sunpak S34-TSR

Once the heater has been mounted, the clearance from combustible material verified and the gas and electric power hooked up you are ready to POWER-UP.

POWER-UP

Always start the Sunpak heater on the high setting. Once the heater is at full heat, the low setting can be used. The heaters will not turn-on properly using the low setting on the remote for initial power-up.

TO TURN HEATER 'ON':

Press the 'ON' Button on the wireless remote, then the "HI" button. You may select the 'LOW' once the heater is warmed up.

TO TURN HEATER 'OFF':

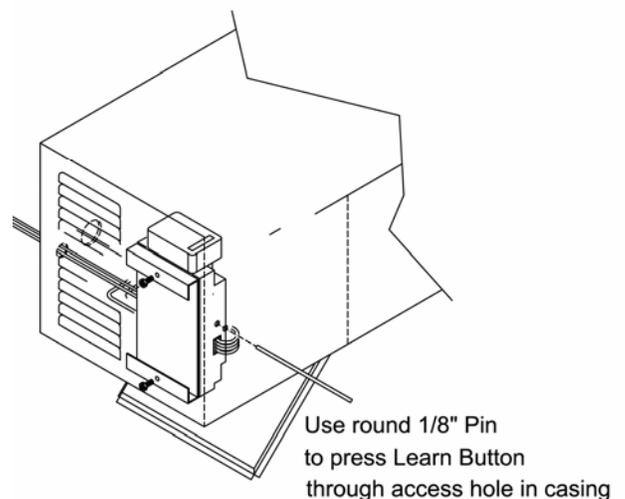
Press the 'OFF' button on the wireless remote.

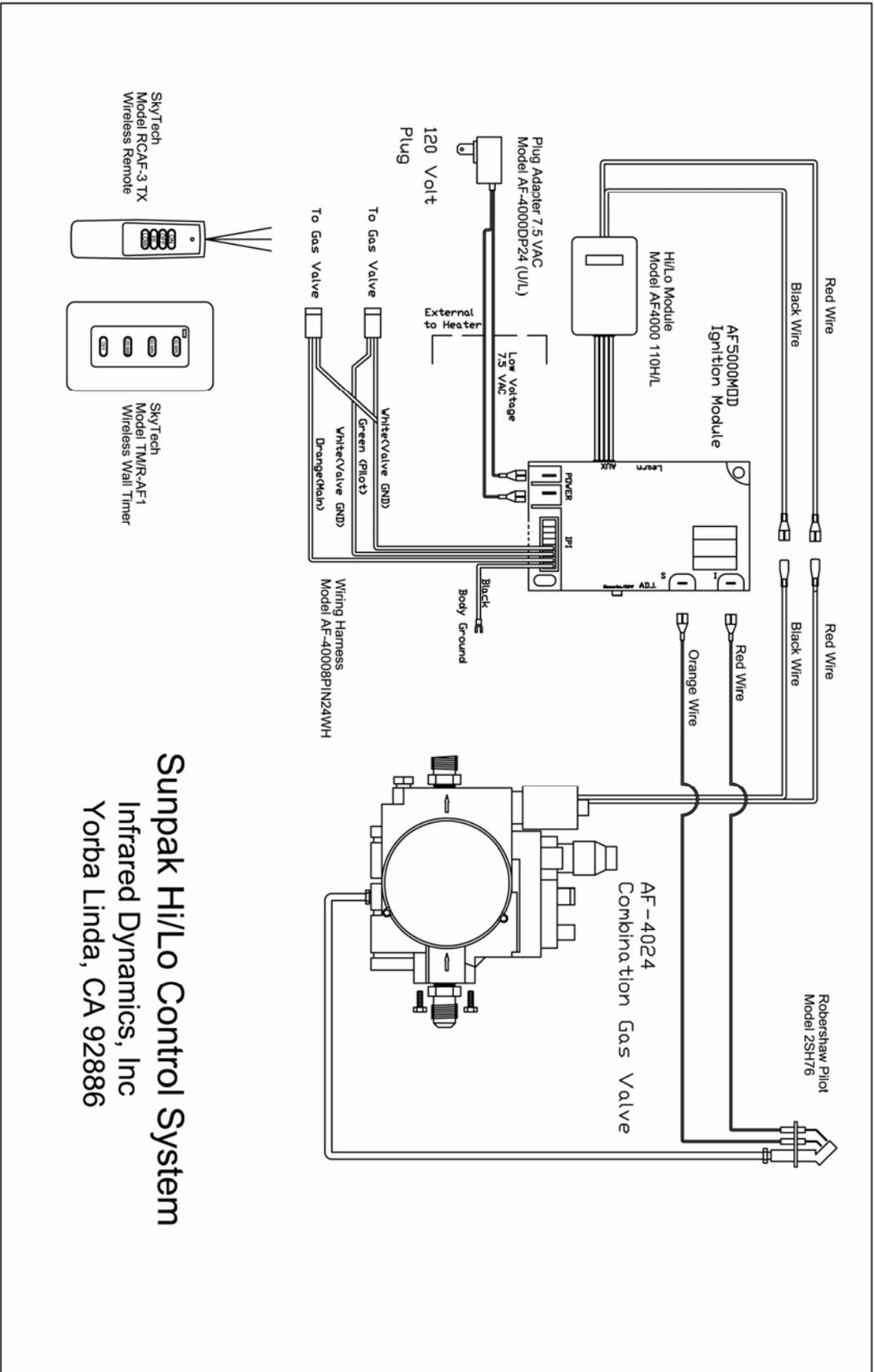
WARNING: If the burner fails to ignite, press the 'OFF' button to reset control. Wait 5 minutes before attempting to relight the heater.

Programming Heater

Should the heater lose its original programming or a new remote device is to be used, the heater will need to be programmed for each wireless device. Each wireless device sends out a unique signal. Each heater can be programmed to respond to three different wireless devices include a handheld remote and wireless wall timer.

Before you program the heater for a new wireless device, there must be power to the heater. The new device is programmed or "learned" by depressing the learn button on the heater module while pressing the ON button on the device. Locate the learn button access port on the front side of heater adjacent to louvers. Using the blunt end of small drill bit (1/8") or other thin tool press and release the learn button on the side of the module. There will be a beeping sound from the control module inside the heater. Then press any key on the remote control. Once the internal receiver accepts the transmitter code there will be a series of confirming beeps. The remote system is ready for use.





Sunpak Hi/Lo Control System
Infrared Dynamics, Inc
Yorba Linda, CA 92886

Converting to Propane or Natural Gas

In order to convert the heater to Propane from Natural Gas or vice versa you must change three parts, properly label the new gas type on the heater and adjust the regulator.

1. Main Burner Orifice
2. Pilot Burner Orifice
3. Adj Plug (for low setting)
4. Adjust Regulator
5. Label with new gas type

Conversion of gas types with this heater should only be performed by a licensed profession who is familiar with this type of product. It is important that you follow all the steps including gas leak and operation testing.

WARNING: Improper adjustment, alteration, service or maintenance can cause death, injury or property damage. Read the installation instructions thoroughly before installing or servicing this equipment.

Step 1: Using a Phillips screwdriver loosen the six (6) screws to remove the top of the heater. Using a 1/2 inch closed end wrench remove the main burner orifice. Replace orifice with a #50 (provided) for Propane Gas or # 38 (provided) for Natural Gas.

Step 2: Remove the front grill by loosening the two (2) screws next to the

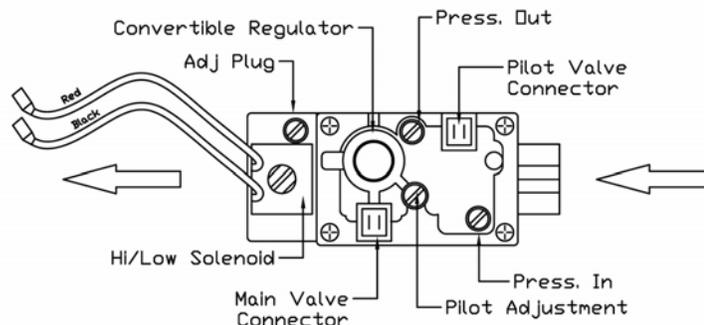
control door. Disconnect pilot tubing from bottom of the gas valve using a 7/16 inch open end wrench and disconnect ignition and sensor wires from module. Remove pilot by loosening two (2) screws on the face of the pilot bracket and carefully pulling the pilot tubing and wiring through fire wall. Replace pilot orifice with .010 (Provided) for Propane or number .016 (Provided) for Natural Gas.

Step 3: Remove clip holding solenoid on the top side of the valve. Gently pull solenoid off shaft. Use a flat blade screw driver to remove brass adjustment (Adj) plug. Replace with #31 for natural gas or #47 for propane gas.

Step 4: Unscrew metal cap from regulator on top of valve. The marker on the shaft should point to the current gas type. To convert the regulator to propane gas, push in the small white plastic shaft and turn 90 degrees. The marker should now point to LP. To convert regulator to Natural Gas push and turn shaft 90 degrees to NAT and the shaft should pop up.

Step 5: Re-assembly heater and verify proper operation. Check for leaks with soapy water. Adjust pilot if necessary to allow for proper flame sensing. Observe main burner for redness and insure that flame is not floating off the burner face. Mark heater with the new gas type.

Gas Valve from View Top

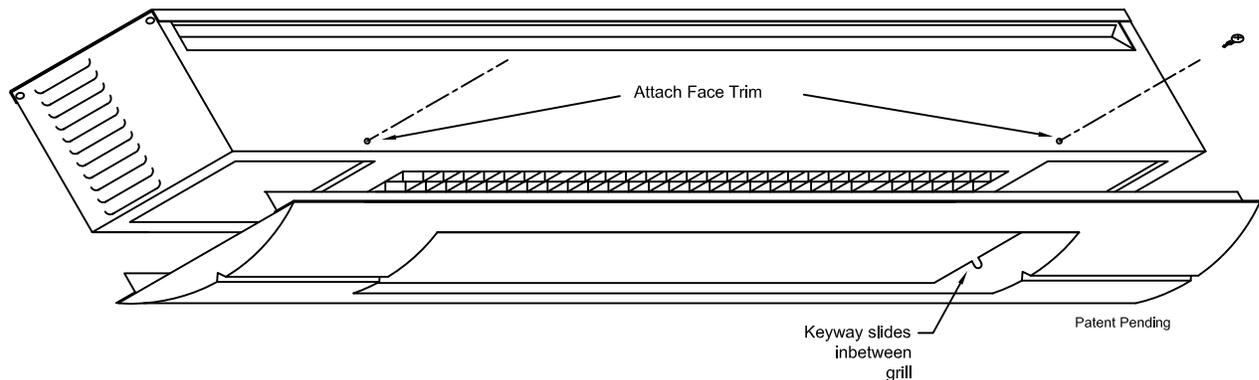


Sunpak Face Trim Instructions

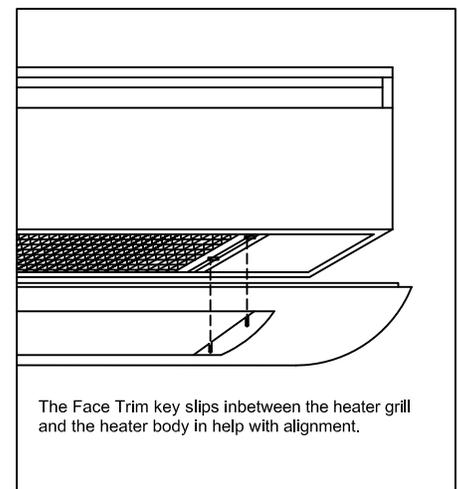
The Sunpak Face Trim was designed to act as a decorative component that does not effect the function of the heater.

The Sunpak Face Trim is design to mount on to Sunpak Heater with the FT marking (see below). These Sunpaks have four threaded holes that allow the Face Trim to be installed.

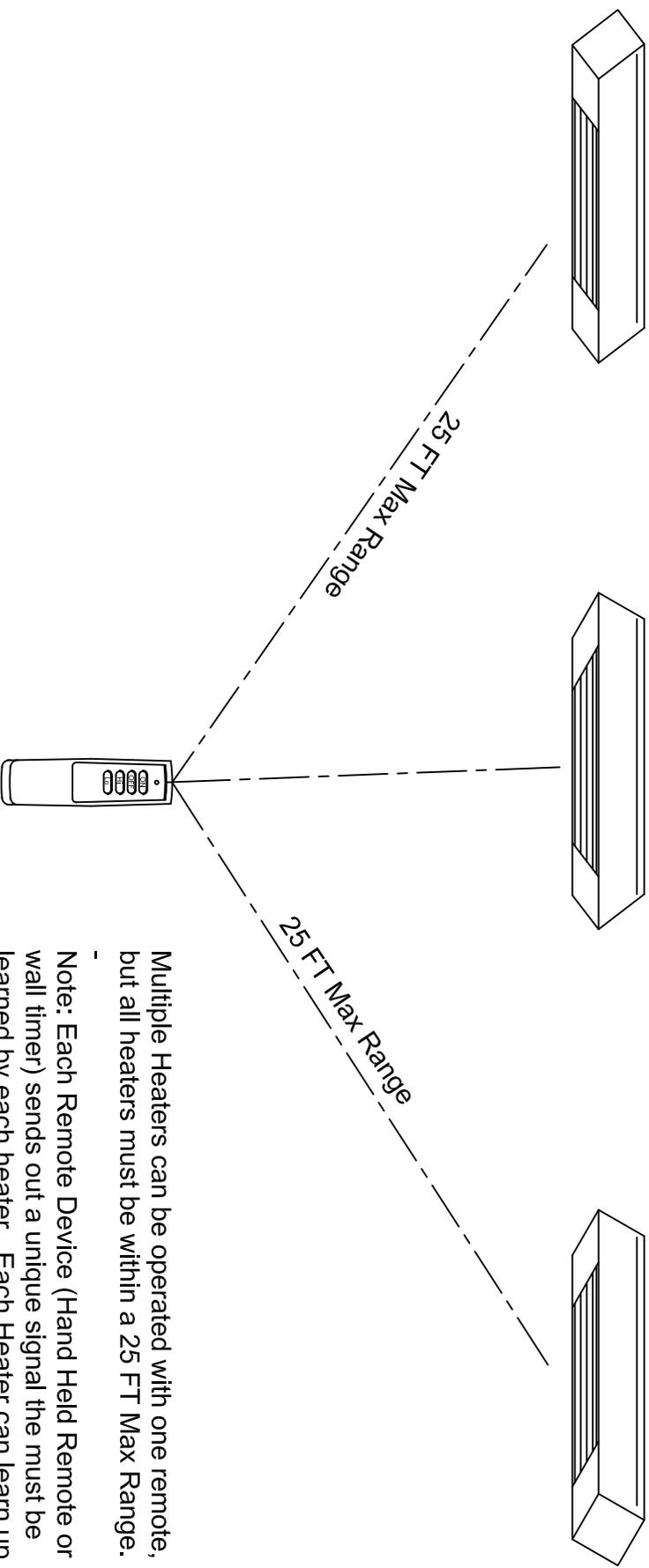
- The face trim is shipped seperately (P/N 12020)
- The face trim is easily removable for servicing
- The face trim can only be install in one direction.
- Four (4) screws easily mount Face Trim to Heater



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Sunpak Heater with Wireless Remote

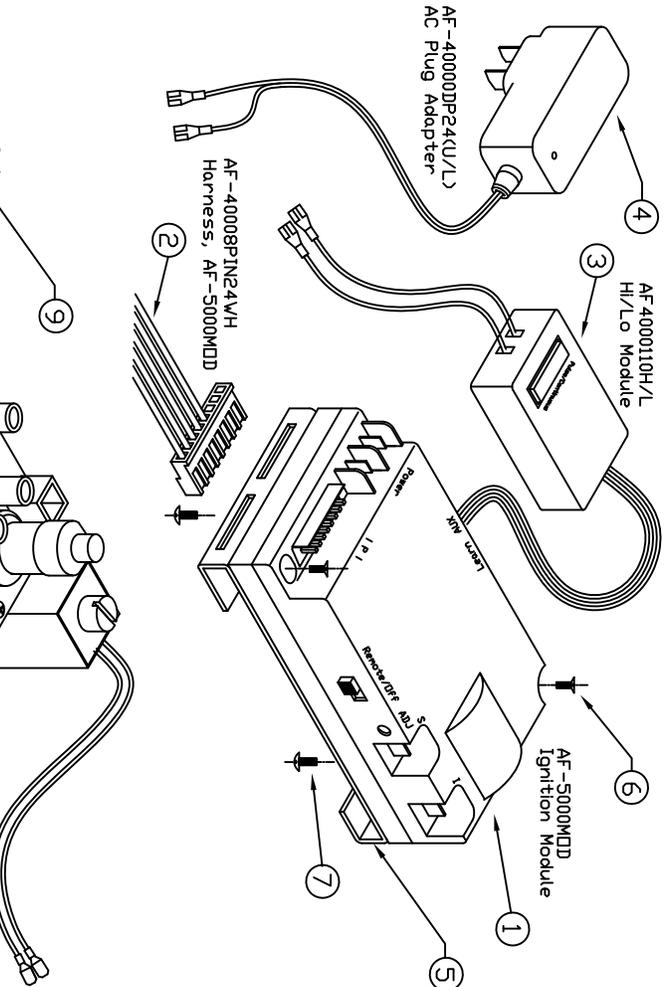


Multiple Heaters can be operated with one remote, but all heaters must be within a 25 FT Max Range.

Note: Each Remote Device (Hand Held Remote or wall timer) sends out a unique signal the must be learned by each heater. Each Heater can learn up to three wireless devices.

Sunpak S34-TSR

Control Components



No.	Part No.	Description
1	92002	Module, AF-5000
2	92003	Harness, AF-40008
3	92004	Module, AF-400010 H/L
4	92005	Adpt, AF-4000APD24(U/L)
5	32030	Brkt, AF5000 Module
6	70069	Screw, 6-32 Flat Hd Machine
7	70072	Screw, #8-32 1/2 Zn
8	92001-1	Control, AF-4024 HL #31
9	Part No.	Assy, Pilot -TSR
10	92006	Remote, RCAF-3TX
11	92007	Time, TM/R-AF 1 Wall

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