



Remote Electronic Ignition and Control System

A. BEFORE OPERATING verify that no gas is in the area around the appliance, including near the floor.

WHAT TO DO IF YOU SMELL GAS:

- Open a window.
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in the building.
 - Immediately call the gas supplier from a neighbor's phone. Follow gas supplier's instructions.
 - If you cannot reach the gas supplier, call the fire department.
- B. Use only your hand to push in or turn the gas control knobs. Never use tools. If a knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.**
- C. Do not use this control or any gas appliance if any part has been under water or in contact with water. Immediately call a qualified service technician to replace the control system and any gas control system which has been under water or in contact with water.**
- D. These instructions are to be referenced as a user guide in addition to the burner system owner's manual.**

WARNING

Fire or explosion hazard. Attempted disassembly or repair of controls can cause property damage, severe injury or death. Do not disassemble the gas valve; it contains no serviceable components.

IMPORTANT: Read these instructions carefully. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life. The product must be installed and operated according to all local regulations.



APPLICATION

The remote system is a battery-powered electronic remote ignition and control system for gas appliances with pilot burners and ODS systems.

GENERAL NOTES

Radio Frequency Remote

433.92 MHz for Europe; 315 MHz for U.S. (FCC 10: RTD-G6R) and for Canada (IC: 4943A-G6R).

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Batteries - Remote Handset:

1 x 9V block (quality alkaline recommended)

Batteries - Receiver:

4 x 1.5V "AA" (quality alkaline recommended)

AUTOMATIC OPERATION

IMPORTANT: Wiring of valve and receiver must be completed before starting ignition. Failure to do so could damage the electronics.

Note: This remote handset and receiver is not interchangeable with previous versions.

Please also refer to the burner system owner's manual.

SETTING THE ELECTRONIC CODE

(First time use only)

Radio Frequency Remote

(see Fig. 3-1)

A code is selected automatically for all remote systems from among 65,000 random codes available. The receiver has to learn the code of the handset:

- Press and hold the receiver's reset button (Fig. 2-1) until you hear two (2) acoustic signals. After the second, longer acoustic signal, release the reset button.
- Within the subsequent 20 seconds press the  (small flame) button on the remote handset until you hear an additional long signal confirming the code is set.

Note: This is a one time setting only, and is not required when changing the batteries in the remote or receiver.

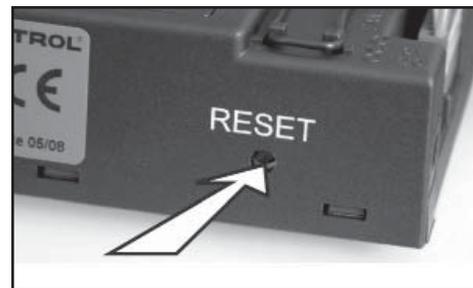


Fig. 2-1 Receiver reset button

AUTOMATIC OPERATION (Cont.)

TO TURN ON APPLIANCE

Warning: When pilot ignition is confirmed, motor turns automatically to maximum flame height.

- Turn MANUAL knob to the ON, full counterclockwise ↶ position (see Fig. 5-2).
- Place ON/OFF switch in **I** (ON position). See Fig. 3-2.
- Simultaneously press and hold the **OFF** and 🔥 (large flame) buttons until a short acoustic signal confirms the start sequence has begun; release buttons (see Fig. 3-1).
- Continuing signals confirm the ignition is in process.
- Once pilot ignition is confirmed, there will be main gas flow.
- After the ignition the remote will go automatically into temperature control mode.

TO TURN OFF APPLIANCE

Press OFF button on remote handset.

Note: Press 🔥 (small flame) to turn main gas to pilot gas.

ADJUSTMENT - FLAME HEIGHT

(see Fig. 3-1)

- In standby mode: Press 🔥 (large flame) to increase flame height.
- Press 🔥 (small flame) to decrease flame height or to set appliance at pilot flame.
- For fine adjustment tap the large/small flames.

SETTING °C/24 HOUR OR °F/12 HOUR CLOCK

(see Fig. 3-1)

- Press OFF and 🔥 (small flame) until display changes from Fahrenheit/12 hour clock to Celsius/24 hour clock and vice versa.



Fig. 3-1 Remote handset detail

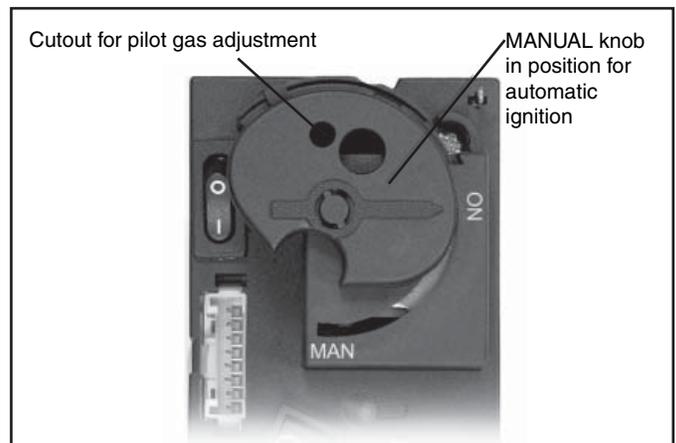


Fig. 3-2 Combination control, view manual knob

SETTING THE TIME

(see Fig. 3-1)

- The display will flash after either:
 - a. Installing the battery or
 - b. Simultaneously pressing the 🔥 (large flame) and 🔥 (small flame).
- Then press 🔥 (large flame) to set the hour and the 🔥 (small flame) to set the minute.
- Press OFF to return to manual mode or simply wait and it will automatically return to the manual mode.

AUTOMATIC OPERATION (cont.)

CHANGING THE MODE OF OPERATION

Briefly pressing the SET button changes the mode of operation in the following order:



Note: MANUAL mode can also be reached by pressing either the (large flame) or the (small flame).

Mode - Manual Flame Height Adjustment

- Press (large flame) to turn on the main burner.
- Press (large flame) to increase the flame height.
- Press (small flame) to decrease the flame height or to go to pilot standby position.

Note: While pressing either button a symbol indicating transmission appears on the display. The receiver confirms transmission with an acoustic signal.

- Daytime Temperature Mode

(appliance must be in standby mode; pilot ignited):

The room temperature is measured and compared to the set temperature. The flame height is then automatically adjusted to achieve the Daytime set temperature.

- Nighttime Setback Temperature Mode

(appliance must be in standby mode; pilot ignited):

The room temperature is measured and compared to the Nighttime Setback temperature. The flame height is then automatically adjusted to achieve the Nighttime Setback temperature.

- Timer Mode

(appliance must be in standby mode; pilot ignited):

The Timer setting allows you to set two (2) burner times and two (2) burner times every 24 hours.

For to operate as a thermostat, TEMP must be set at 40°F 4°C) or higher.

If the setting is decreased to -- , the motor will turn the valve to the standby position in the moon times and await the next burner cycle.

Note: The display shows the set temperature every 30 seconds.

SETTING THE TEMPERATURE

- Select either the MODE or the MODE by briefly pressing the SET button.
- Hold the SET button until the TEMP display flashes.
- Set the desired temperature with (large flame) or (small flame).
- Press OFF or simply wait to complete programming.

SETTING THE TIMER

- Select Timer mode by briefly pressing the SET button.
- Press and hold the SET button until the P1 (sun symbol is displayed) and the time flashes. Set the hour by pressing the (large flame) and set the minutes by pressing the (small flame).
- Briefly press SET button for the next burner cycle time.
- Example: P1 (moon symbol) continue through P2 (sun symbol) and P2 (moon symbol).
- Once all four (4) times are set, press OFF or simply wait to complete programming.

MANUAL OPERATION

(Only possible, when MANUAL knob is used)

Follow the burner system owner's manual for gaining access to the gas control and the pilot burner. Access to the pilot burner is only required for ignition with a match.

When turning main valve knob, do not force. Knob has a slip clutch that clicks until the end stops are reached. This allows for manual flame height adjustment as well as adjustment to pilot standby position (see Fig. 5-1).

1. **STOP!** Read the safety information included before proceeding.
2. Turn main valve knob to the OFF, full clockwise ↻ position.
3. Turn MANUAL knob to the MAN, full clockwise ↻ position.
4. Place ON/OFF switch in **O** (OFF position).
5. Wait five (5) minutes to clear out any gas. Verify that no gas is in the area around the appliance, including near the floor. **If you detect gas STOP!** Follow "A" in the safety information on page 1. If no gas is present, proceed to step 6.
6. Place ON/OFF switch in **I** (ON position).
7. With the MANUAL knob in MAN position a manual pilot valve operator and piezo igniter (optional) are accessible.
8. Change the ignition cable from the receiver (see Fig.5-2a) to the valve (see Fig. 5-2b).
9. Fully push down manual pilot valve operator (using a small bladed screwdriver or similar) and hold in, to start pilot gas flow (see Fig. 5-1).

Ignition with match:

Immediately light the pilot with a match, while continuing to hold in the manual pilot valve operator for about one (1) minute after the pilot is lit. Release manual pilot valve operator. If pilot does not stay lit, wait five (5) minutes and repeat.

Ignition with piezo igniter:

Use the push piezo igniter to ignite. If pilot does not stay lit, wait five (5) minutes and repeat.

Note: If the pilot does not stay lit after several tries, follow the instructions "TURN OFF GAS TO APPLIANCE" and call the service technician or gas supplier.

10. Turn MANUAL knob to the **ON**, full counterclockwise ↻ position.

11. Turn main valve knob to the full **ON**, full counterclockwise ↻ position.

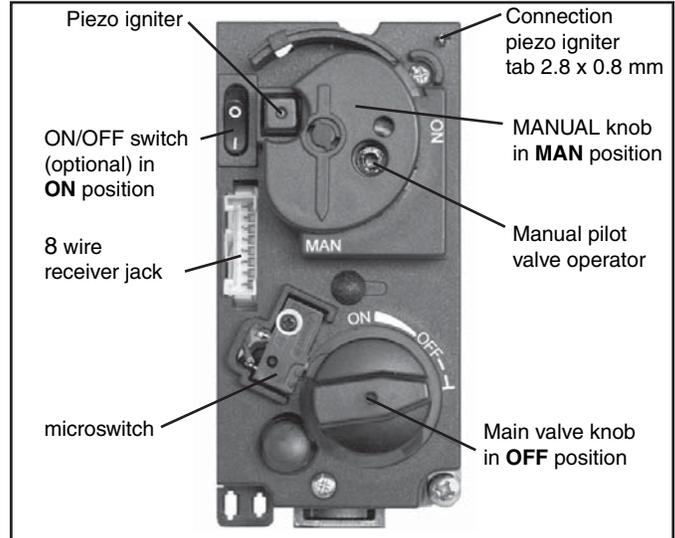


Fig. 5-1 Combination control, cover

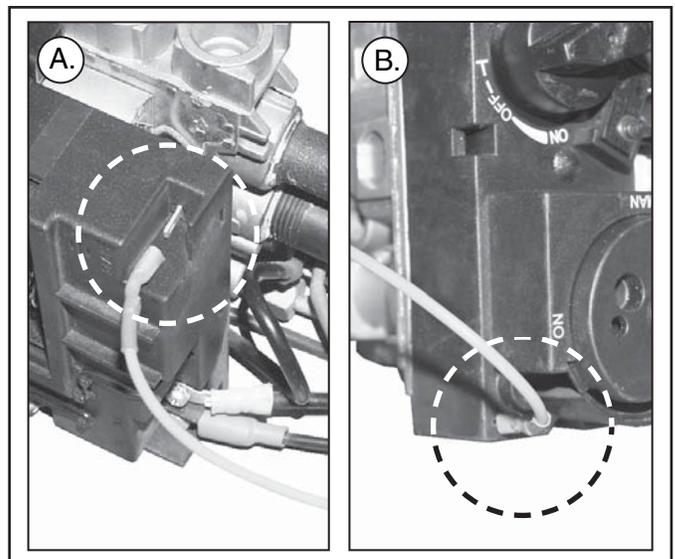


Fig. 5-2a/b Piezo igniter wiring

12. If the appliance will not operate, follow the instructions "TURN OFF GAS TO APPLIANCE" and call the service technician or gas supplier.

PRIOR TO ANY FUTURE AUTOMATIC OPERATION; THE IGNITION CABLE MUST BE CONNECTED BACK TO THE RECEIVER (WHEN COOL).

TURN OFF GAS TO APPLIANCE

- Press OFF button on remote.
- Follow burner system owner's manual for gaining accessibility to the gas control.
- Place ON/OFF switch in **O** (off position).
- Turn main valve knob to the OFF full clockwise ↻ position.

Low Battery Indication

Receiver:

three short beeps will sound when motor turns

Remote with display:

"BATT" will appear on display

Note: If the battery of the handset is low or if the transmitter is out of the communication range, the motor turns down the valve to pilot gas after 6 hours.

Note: With very low battery the system shuts off the fire completely. This will not happen if the power supply is interrupted.

Battery Replacement

Battery replacement is recommended at the beginning of each heating season. Pull ribbon to remove batteries. Do not use metal tools to remove batteries. Using a metal tool could cause a short that may damage the receiver.

Location of Receiver

When the RF-receiver is placed in the appliance, the surrounding metal can reduce reception considerably. The position of the antenna on the receiver also influences reception. It is recommended to straighten the antenna. The antenna must not come in contact or cross the ignition wire, this may render the receiver inoperable.

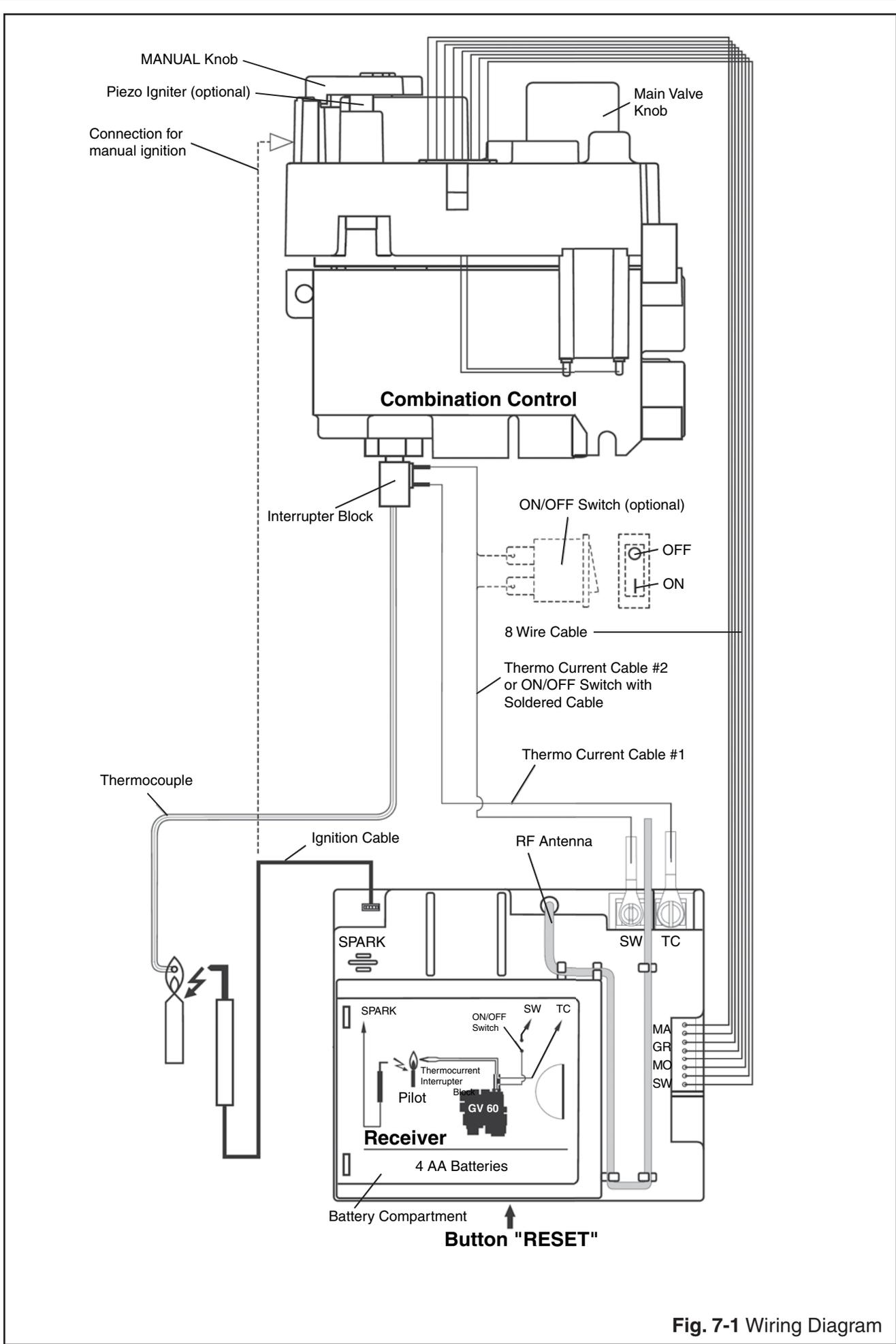


Fig. 7-1 Wiring Diagram

Please use this page to record any information about your remote system that you may want to have at hand.