



01V SERIES UNVENTED REMOTE SYSTEM INSTRUCTIONS

WARNING

WHAT TO DO IF YOU SMELL GAS:

- **Do NOT operate any appliance.**
- **Do NOT touch any electrical switch; do NOT use any phone in your building.**
- **Immediately evacuate the area and contact the gas supplier. Follow the gas supplier's instructions.**
- **If you cannot reach the gas supplier, call the fire department.**

Read these instructions carefully and completely before installing or operating. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life. Service and installation must be performed by a qualified professional service technician.

WARNING

ELECTRIC SHOCK HAZARD

- Read these instructions carefully. Failure to follow them could result in property damage, personal injury, or loss of life.
- This control must be electrically wired and operated in accordance with all codes and local regulations. Service and installation must be performed by a qualified professional service technician.
- Do NOT use the control if you suspect it may be damaged.

WARNING

Installation and service must be performed by a qualified installer, service agency, or the gas supplier. Installation shall conform with local codes, or in the absence of local codes, in accordance with the National Fuel Gas Code ANSI Z223.1/NFPA 54 or the IFGC or CSA B149.1. All piping and tubing must comply with local codes and ordinances.

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, do not try to repair it. Call a qualified service technician. Force or attempted repair can result in a fire or explosion.

Do NOT use a product if you suspect it has been subjected to high temperatures, damaged, tampered with, or taken apart. Do NOT use a product if you suspect it has been under water or that liquid has seeped into the product. Any of these incidents can cause leakage or other damage that may affect proper operation and cause potentially dangerous combustion problems.

Do NOT store or use gasoline or other flammable vapors and liquids in the vicinity of this control or other appliances.

Follow all instructions supplied with your unvented burner system.



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APPLICATION

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

OPERATING INSTRUCTIONS

GENERAL NOTES

Radio Frequency Handset

433.92 MHz for Europe; 315 MHz for U.S. and for Canada.

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 - Handset:

- 1 x 9V (alkaline recommended)
- Low battery indicator on handsets with display.
- Battery replacement is recommended after 2 years.

Batteries - Receiver:


- 4 x 1.5V "AA" (alkaline recommended)
- Low battery indication: frequent beeps for 3 seconds when motor turns.
- Battery replacement is recommended at the beginning of each heating season.

SETTING THE ELECTRONICS CODE

(First time use only)

Radio Frequency Handset

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 (see Fig. 3-2) until you hear two (2) beeps. The first beep is short and the second beep is long. After the second beep, release the reset button.
- Within the subsequent 20 seconds press the  (small flame) button on the handset until you hear two additional short beeps confirming the code is set. If you hear one long beep, this indicates the code learning sequence has failed or the wiring is incorrect.

Note: This is a one time setting only, and is not required after changing the batteries of the handset or receiver.

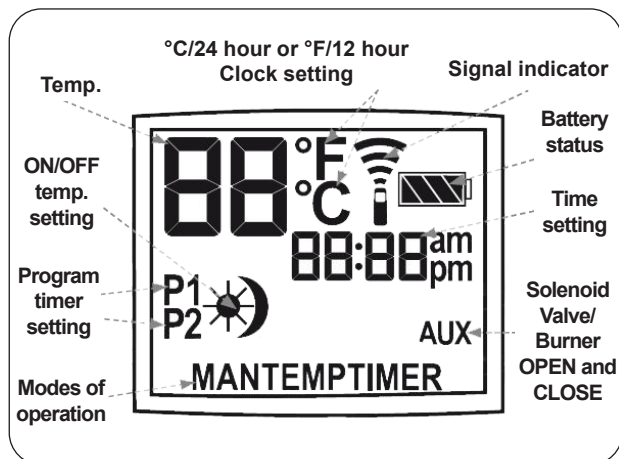


Fig. 3-1 Handset display detail

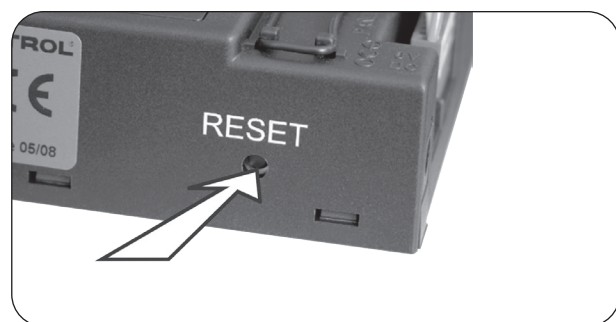
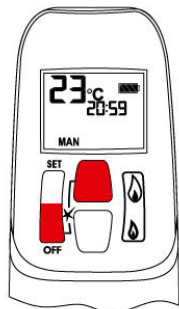


Fig. 3-2 Receiver reset button.

TO TURN ON APPLIANCE

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

- Turn MANUAL knob on valve to the **ON**, full counterclockwise ↺ position (see Fig. 4-1).
- Place ON/OFF switch in I (ON) position (see Fig. 4-1).
- Simultaneously press the **OFF** and 🔥 (large flame) buttons until a short beep confirms the start sequence has begun; release buttons.
- Continuing beeps confirm the ignition is in process.
- Once pilot ignition is confirmed, there is main gas flow.
- After main burner ignition the handset will automatically go into manual mode.



WARNING: If the pilot does not stay lit after several tries, turn the main valve knob to **OFF** and follow the TURN OFF GAS TO APPLIANCE section.

Standby Mode (Pilot Flame)

- Press and hold 🔥 (small flame) to set appliance at pilot flame.

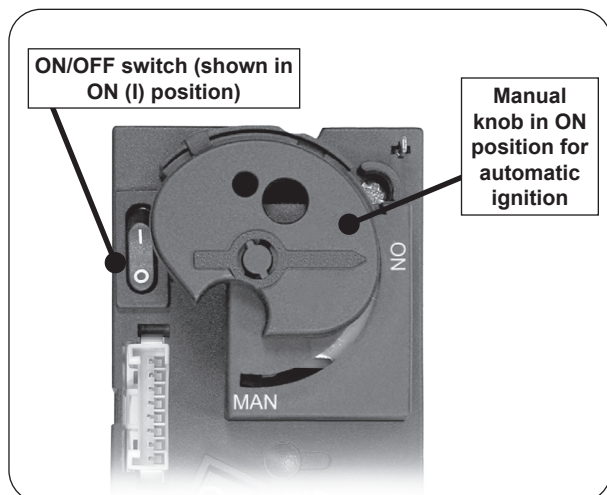
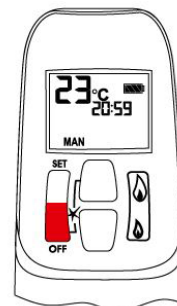


Fig. 4-1 Manual knob detail (automatic ignition)

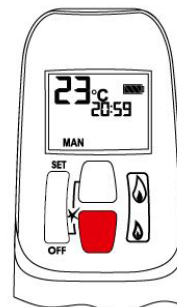
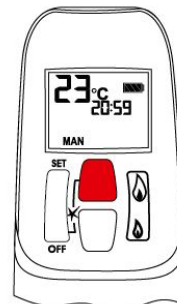
TO TURN OFF APPLIANCE

- Press **OFF** button.




FLAME HEIGHT ADJUSTMENT


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



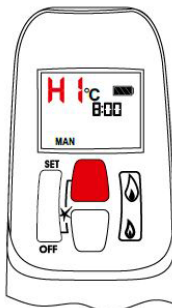
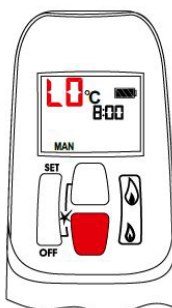
Designated Low Fire and High Fire

- Double-click  (small flame) button. "LO" will be displayed.

Note: Flame goes to high fire first before going to designated low fire.

- Double-click  (large flame) button. Flame automatically goes to high fire. "HI" will be displayed.



WARNING: If the appliance will not operate, follow the TURN OFF GAS TO APPLIANCE section.



MODES OF OPERATION

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

MAN →  **TEMP** →  **TEMP** → **TIMER** → back to the beginning.


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



- MAN – Manual Mode**

Manual flame height adjustment.



-  – **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.

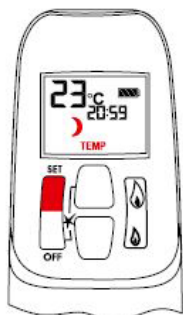


OPERATING INSTRUCTIONS (cont.)

• **☾ – Nighttime Setback Temperature Mode**

(Appliance must be in standby mode; pilot ignited)

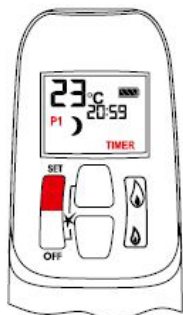
The room temperature is measured and compared to the Nighttime Setback Temperature. The flame height is then automatically adjusted to achieve the Nighttime Setback Temperature.



• **TIMER – Timer Mode**

(Appliance must be in standby mode; pilot ignited)

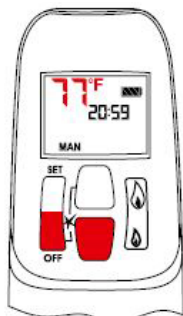
The Timers P1 and P2 (Program 1, Program 2) each can be programmed to go ON and OFF at specific times. For instructions see Timer Programming Mode.



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

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

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

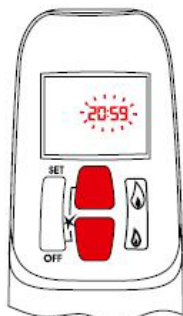


SETTING THE TIME

- The Time display will flash after either:

- Installing the battery or
- Simultaneously pressing the (large flame) and (small flame) buttons.

- Press (large flame) button to set the hour.
- Press (small flame) button to set the minute.
- Press **OFF** or simply wait to return to manual mode.



SETTING THE ON/OFF TEMPERATURES

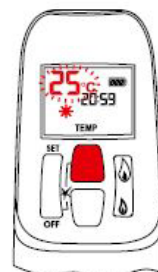
Setting the “DAYTIME” Temperature

DEFAULT SETTINGS: **TEMP**, 73 °F / 23 °C

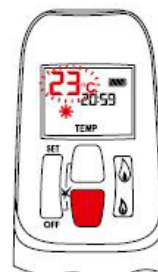
- Briefly press **SET** button to scroll to **TEMP**. Hold the **SET** button until the **TEMP** flashes.



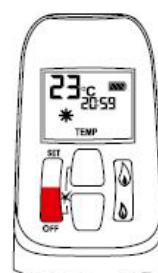
- Press (large flame) button to increase Daytime Set Temperature.



- Press (small flame) button to decrease Daytime Set Temperature.



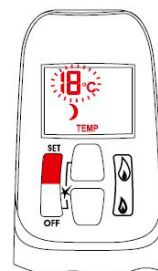
- Press **OFF** or simply wait to complete programming.



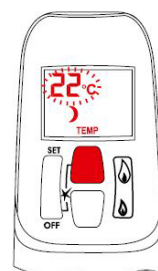
Setting the “NIGHTTIME SETBACK” Temperature

DEFAULT SETTINGS: **TEMP**, “--” (OFF)



- Briefly press **SET** button to scroll to **TEMP** mode. Hold the **SET** button until the Temperature flashes.

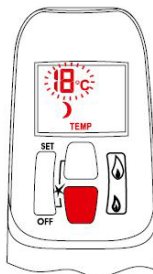


- Press (large flame) button to increase Nighttime Setback Temperature.

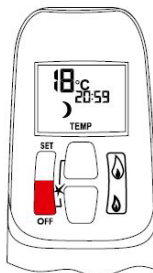



OPERATING INSTRUCTIONS (cont.)

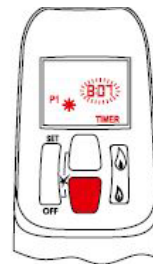
- Press  (small flame) button to decrease  Nighttime Setback Temperature.




- Press **OFF** or simply wait to complete programming.




- Set the minutes by pressing the  (small flame) button.




Setting P1 OFF Time

- Briefly press **SET** button to scroll to setting P1 OFF time. P1 and  are displayed and the time flashes.



- Set the hour by pressing the  (large flame) button.







- Set the minutes by pressing the  (small flame) button.














SETTING PROGRAM TIMERS

Default Settings

Program 1: P1  6:00am P1  8:00am

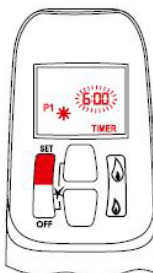
Program 2: P2  11:50pm P2  11:50pm


- 2 ON times can be programmed  per day.
- The day starts at 12:00am, ends at 11:50pm.
- The ON/OFF times have to be programmed in the order P1  ≤ P1  < P2  ≤ P2 .
- If P1  = P1  or P2  = P2  the timer is deactivated.
- To have the fire over night, it can be set: P2  11:50am and P1  12:00am
- Select Timer Mode by briefly pressing the **SET** button.

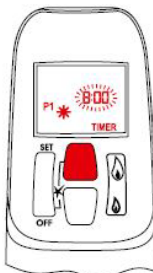


Setting P1 ON Time


- Hold the **SET** button until P1 and  are displayed and the time flashes.




- Set the hour by pressing the  (large flame) button.



Setting P2 ON Time

- Briefly press **SET** button to scroll to setting P2 ON time. P2  is displayed and the time flashes.
- See instructions "Setting P1 ON Time".

Setting P2 OFF Time

- Briefly press **SET** button to scroll to setting P2 OFF time. P2  is displayed and the time flashes.
- See instructions "Setting P1 OFF Time".
- This concludes programming Timers P1 and P2. Press **OFF** or wait. The handset will automatically save your changes.

OPERATING INSTRUCTIONS (cont.)

MANUAL OPERATION

(Only possible, when MANUAL knob is used)

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.

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 "WHAT TO DO IF YOU SMELL GAS" 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 ignitor (optional) are accessible.
8. Using a small screwdriver (or similar), fully push down manual pilot valve operator and hold in, to start pilot gas flow (see Fig. 8-1).

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 IGNITOR:

Change the ignition cable from the receiver to the valve (see Fig. 8-2). Push in the piezo ignitor to ignite. If pilot does not stay lit, wait five (5) minutes and repeat.

WARNING: If the pilot does not stay lit after several tries, turn the main valve knob to OFF and proceed to step 12.

9. If applicable, replace pilot access panel before proceeding.
10. Turn MANUAL knob to the **ON**, full counter-clockwise ↺ position.
11. Turn main valve knob to the full **ON**, full counter-clockwise ↺ position.
12. If the appliance will not operate, follow the TURN OFF GAS TO APPLIANCE section.

TO TURN OFF GAS TO APPLIANCE

1. Place ON/OFF switch in **O** (OFF position).
2. If gas control is accessible turn main valve knob to the **OFF** full clockwise ↻ position.

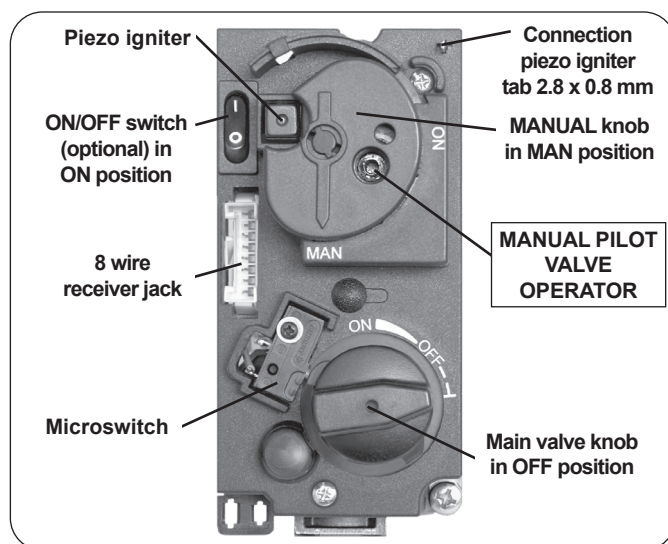


Fig. 8-1 Combination control, cover

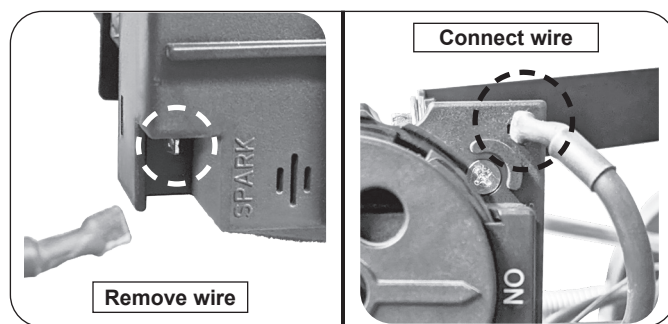


Fig. 8-2 Piezo igniter rewiring (if desired)

AUTOMATIC TURN DOWN

8 Hour No Motor Movement

The valve will turn to pilot flame if there is no motor movement for an 8-hour period. To deactivate or activate the 8-hour no motor movement turn down, the handset must be synchronized with the Receiver and the Receiver must be powered ON.

Note: 8-hour No Motor Movement turn down is the default setting. Deactivation is only possible using the display/thermostat handset.

Deactivate 8-hour no motor movement turn down

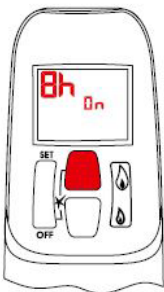
1. Press and hold the Down button.
2. Install the battery in the handset while continuing to press and hold the Down button.
3. Continue to press and hold the Down button for 8 sec.
4. During the 8 sec., 8h is displayed and the last set status (ON/OFF) will flash.
5. When deactivation is completed, 8h and OFF will appear on the display for 4 sec.
6. The Receiver confirms deactivation with 3 short beeps.



Note: Deactivation remains in effect after changing the batteries in the Receiver and Handset.

Activate 8-hour no motor movement turn down

1. Press and hold the Up button.
2. Install the battery in the handset while continuing to press and hold the Up button.
3. Continue to press and hold the Up button for 8 sec.
4. During the 8 sec., 8h is displayed and the last set status (ON/OFF) will flash.
5. When activation is completed, 8h and ON will appear on the display for 4 sec.
6. The Receiver confirms activation with 2 short beeps.



Note: Activation remains in effect after changing the batteries in the Receiver and Handset.

Receiver Overheating

Valve turns to pilot flame if the temperature in the receiver is higher than 176 °F (80 °C) or 140 °F (60 °C) when batteries installed in the receiver battery compartment. The main burner comes back on only when the temperature is below 176 °F (80 °C).

AUTOMATIC SHUT OFF


Low Battery Receiver

With low battery power in the receiver the system shuts off the fire completely. This will not happen if the power supply is interrupted.

On-Demand Pilot (7 Day Shut-Off)

- This green feature eliminates gas energy consumption during extended appliance inactivity. When the appliance is inactive for an extended period of time the system automatically extinguishes the pilot. This feature helps the consumer realize cost benefits by automatically eliminating energy consumption during non-heating months and limited use.
- The programmed length of inactivity to activate the system is specified by the appliance manufacturer and cannot be altered in the field.

System Shut Off

The system shuts off the fire if the main burner does not completely ignite approximately 20 seconds after ignition or after pushing  (large flame) button.

Note: Before the next ignition there is a 2 minute waiting period. If the thermocouple is then still too hot, you will hear a long beep.

WIRING DIAGRAM

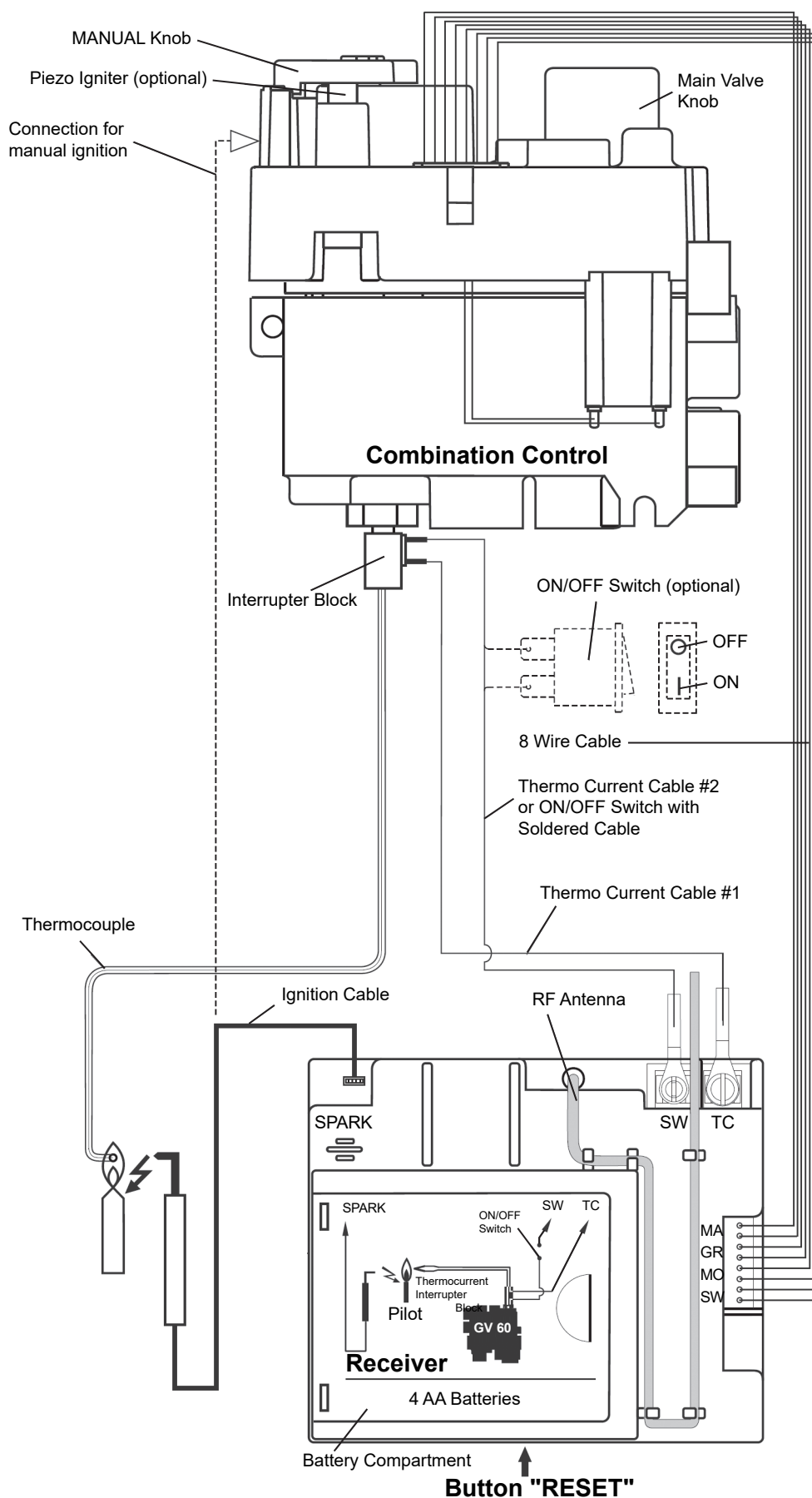


Fig. 10-1 Wiring diagram