



Skytech 5320P Programmable Fireplace Remote Control User Manual

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IF YOU CANNOT READ OR UNDERSTAND THESE INSTALLATION INSTRUCTIONS DO NOT ATTEMPT TO INSTALL OR OPERATE

NOTE: This product is designed for use with an attended hearth appliance or fire feature. Adults must be present when the Control System is operating. DO NOT program or thermostatically set this Control to operate a hearth appliance or fire feature when Adults are not physically present. Furthermore, DO NOT leave the hearth appliance or fire feature burning unattended; it may cause damage or serious injury. If an Adult is going to be away from the

hearth appliance or fire feature for any length of time, then the handheld/wall mount, receiver/control module and application should be in the “OFF” position.

INTRODUCTION

This remote control system was developed to provide a safe, reliable, and user-friendly remote control system for gas heating appliances. The system can be operated thermostatically, manually or with the built-in factory program inside the transmitter. The built-in program has two segments, a weekdays and a weekend segment. The factory presets are time periods for each day. SEE PROGRAM SEQUENCE BELOW. Custom programming may be achieved after the initial setup has been performed.

This system operates on radio frequencies (RF) within a 20-foot range using non-directional signals. The system operates one of 1,048,576 security codes that are programmed into the transmitter at the factory; the remote receiver’s code must be matched to that of the transmitter prior to initial use.

Built-in Factory Programs			
Weekdays - Mon. Tues. Wed. Thurs. Fri.			
Program 1 (P1)	5:00AM → 9:00AM	Program 2 (P2)	4:00PM → 10:00PM
	MORN 72°		DAY 72°
Weekends - Sat. Sun.			
Program 1 (P1)	6:00AM → 10:00AM	Program 2 (P2)	5:00PM → 10:00PM
	MORN 72°		DAY 72°

Table 1 Factory program.

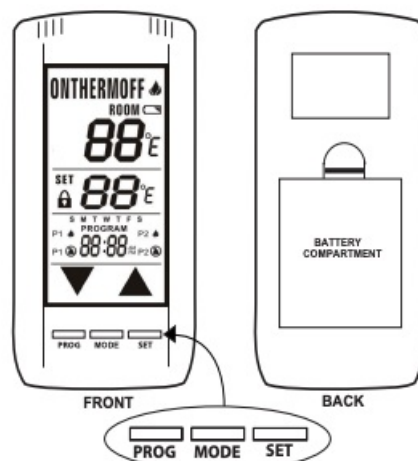


Fig. 1 Transmitter.

TRANSMITTER

The transmitter operates on (4) AAA 1.5V batteries that are included. Install the batteries supplied with the unit into the battery compartment. It is recommended that ALKALINE batteries always be used for this product. **Be sure the batteries are installed with the (+) and (-) ends facing the correct direction.**

When you start up the remote, if a low battery signal appears or if the LCD screen does not illuminate when you touch it, check battery position and if the batteries are fully charged.

Review **COMMUNICATION SAFETY** under **TRANSMITTER** section and **THERMO SAFETY** under **REMOTE RECEIVER** section. These signal and temperature safety features shut down the fireplace system when a potentially unsafe condition exists.

KEY AND TOUCHSCREEN SETTINGS

1. **MODE** – Switches the appliance On/Thermo/Off.
2. **PROGRAM** – Turns ON and OFF the program function.
3. **SET** – Used in different functions to confirm settings.
4. **UP** and **DOWN** – Used to change the time, set temp, and programming functions.

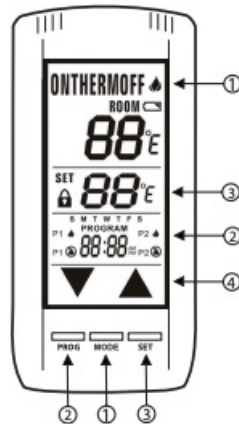


Fig. 2 Button settings.

LCD – LIQUID COLOR DISPLAY

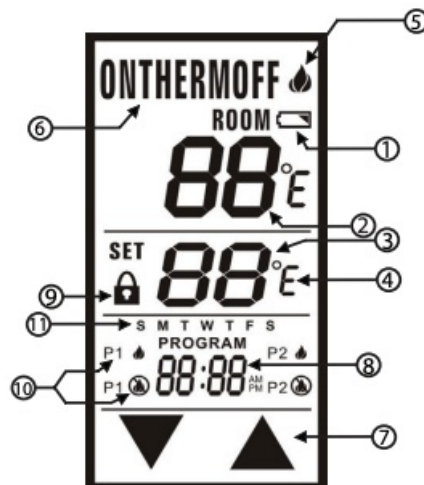


Fig. 3 LCD display.

1. **BATTERY ICON** – Battery power is low. Replace Batteries in 2 – 4 weeks.
2. **ROOM** – Indicates CURRENT room temperature.
3. **SET** – Indicates desired SET room temperature for THERMO operation.
4. **FAHRENHEIT/CELSIUS** – Indicates degrees Fahrenheit or Celsius.
5. **FLAME** – Indicates burner/valve in operation.
6. **MODE** – Indicates operation mode of system.
7. **UP and DOWN** – These are used to adjust the Time, Set temperature, and Program functions.
8. **TIME and PROGRAM TIME** – Indicates current time or program time setting when editing program settings.
9. **LOCK ICON** – Disables the transmitter when lock is visible on the LCD screen.
10. **PROGRAM ON/OFF** – Indicates when Program 1 (P1) is on or off, and indicates when Program 2 (P2) is on or off.
11. **DAY of WEEK** – Indicates current day of week, or program segment when editing program settings.

BASIC TRANSMITTER FUNCTIONS AND INITIAL SETUP

NOTE: Touch anyplace on the screen and the back light will light up and stay lit for 5 seconds.

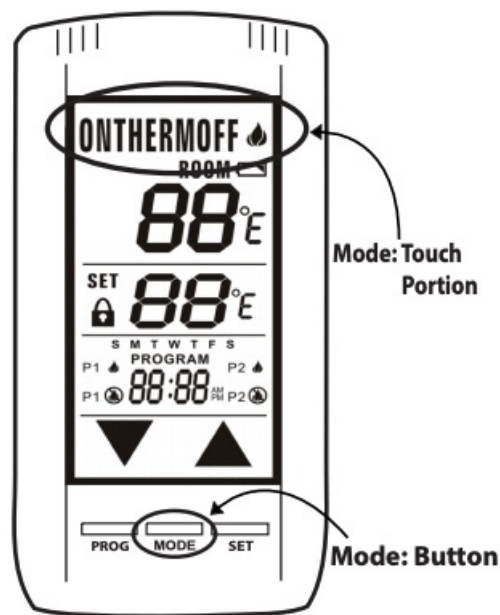


Fig. 4 Transmitter functions.

MODE FUNCTION

To select an operational mode, press the **MODE** (top) button or touch the **MODE**(top) **SECTION** of the touch screen.

- **ON** turns the appliance manually ON; the flame icon will appear.
- **THERMO** sets the remote to Thermostatic mode.
- **OFF** turns the appliance OFF; the flame icon will disappear.

SETTING °F / °C SCALE

The factory setting for temperature is °F. To change this setting to °C, first press and hold the **UP** touch button and the **DOWN** touch button on the transmitter at the same time. Follow this same procedure to change from °C back to °F.

SETTING THE CLOCK

- Press and hold the **SET** button, or touch the **SET** (middle) section on the touch screen, for 5 seconds. The hour section should begin to flash. (Fig. 5)
- Use the **UP** and **DOWN** touch buttons to select the hour, then press **SET**.
- The minutes will be flashing. Use the **UP** and **DOWN** touch buttons to select the minute, then press **SET**. (Fig. 6)
- The AM PM will be flashing. Use the **UP** and **DOWN** touch buttons to select one of them, then press **SET**. (Fig. 7)
- One of the days of the week will be flashing (above the clock). Select the correct day by pressing the **UP** and **DOWN** touch buttons, then press **SET**. Your time will automatically be accepted. (Fig. 8)

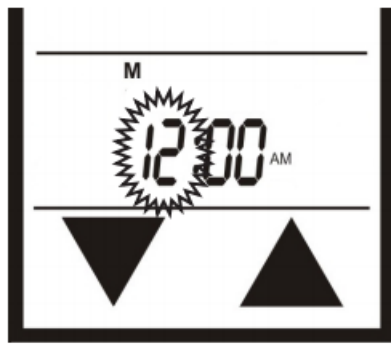


Fig. 5 Hours.

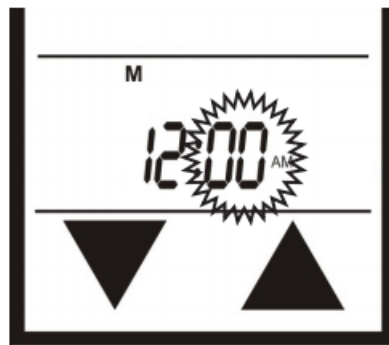


Fig. 6 Minutes.

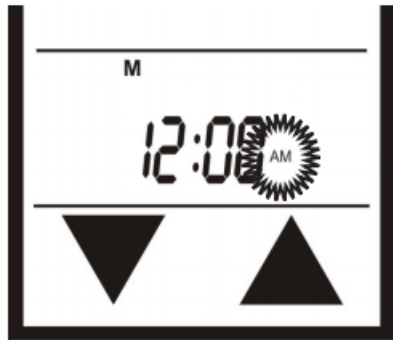


Fig. 7 AM/PM.



Fig. 8 Days of week.

THERMOSTAT FUNCTION

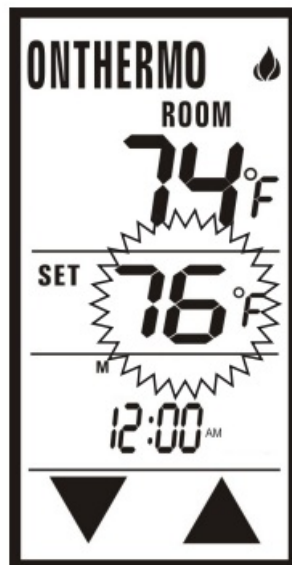


Fig. 9 Thermo mode.

This remote control system can be thermostatically controlled when the transmitter is in the THERMO mode (THERMO must be displayed on the screen). To set the desired room temperature, press the **MODE** button to place the transmitter into thermo mode, then press the **UP** or **DOWN** touch buttons to select the desired room temperature. The highest set temperature is 99° F (32° C).

THERMO UPDATING FEATURE – TRANSMITTER

When in thermo mode, the transmitter reads the ROOM temperature every 2 minutes, checks the room temperature against the SET temperature then sends a signal to the receiver.

NOTE: The thermo feature operates the appliance whenever the room temperature varies a certain number of degrees from the set temperature. This variation is called the “swing” or temperature differential. This feature lets

the appliance turn off and on 2° F (1° C) above or below the set temperature of the room. This is to cushion the number of times the appliance is turned ON and OFF. See Swing setting on page 6, Figure 19.

PROGRAM FUNCTION

This remote has two default program segments (P1) and (P2): A weekday segment and a weekend segment. To enter program mode, push the **PROG** button or touch the **PROGRAM** (bottom) portion of the touchscreen; the word PROGRAM will appear above the display time to indicate program operation is active.

The factory presets are:

<u>WEEKENDS</u>	<u>WEEKDAYS</u>
"P1 ON" 6:00 AM at 72°F	"P1 ON" 5:00 AM at 72°F
"P1 OFF" 10:00 AM	"P1 OFF" 9:00 AM
"P2 ON" 5:00 PM at 72°F	"P2 ON" 4:00 PM at 72°F
"P2 OFF" 10:00 PM	"P2 OFF" 10:00 PM

To turn the program function OFF, touch the **PROGRAM** portion on the touchscreen, or press the **PROG** Button at the bottom of the transmitter. The word PROGRAM will disappear from the LCD screen.

EDITING PROGRAM SETTINGS

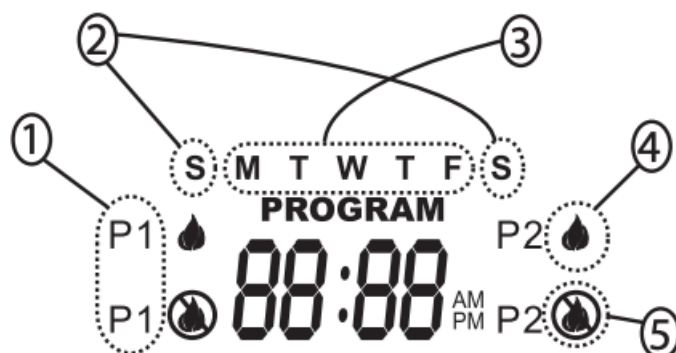


Fig. 10 Edit segments.

1. Program Segment: (P1) Program 1 (left side of LCD screen), or (P2) Program 2 (right side of LCD screen).
2. Weekend Segment: Saturday and Sunday.
3. Weekday Segment: Monday through Friday.
4. Flame ON: Flame icon shows your appliance to turn ON.
5. Flame OFF: Flame icon shows your appliance to turn OFF.

NOTE: P1 CAN ONLY BE SET FROM 12:00AM to 12:00PM

P2 CAN ONLY BE SET FROM 12:00PM to 12:00 AM

To edit the program settings press either the PROG button or touch the Program section of the touch screen and hold for 5 seconds, the program section of the LCD screen will begin to flash.



Fig. 11 Program ON at 6:00AM.



Fig. 12 Program OFF at 10:00AM.



Fig. 13 Temperature set 72°F.



Fig. 14 Program ON at 5:00PM.



Fig. 15 Program OFF at 10:00PM.



Fig.16 Weekday segments (Mon-Fri).

- P1 ON and “S S” (Weekend Segment) should be flashing. Select the time you want your appliance to turn ON by using the **UP** and **DOWN** touch buttons. Then press **SET** (See Fig. 11).
- P1 OFF will be flashing. Select the time you want your appliance to turn OFF. Then press **SET** (See Fig.12).
- The set temperature will begin to flash. Use the **UP** and **DOWN** touch buttons to select a temperature for P1, then press **SET** (See Fig. 13).
- Now the P2 ON will begin to flash. Select the time you want your appliance to turn ON by using the **UP** and **DOWN** touch buttons. Then press **SET**. (See Fig. 14).
- P2 OFF will be flashing. Select a time you want your appliance to turn OFF. Then press **SET** (See Fig. 15).
- The set temperature will begin to flash. Use the **UP** and **DOWN** touch buttons to select a temperature for P2, then press **SET** (See Fig. 11).
- “MTWTF” (Weekday Segment) will replace “S S”. P1 ON will be flashing. Repeat the above steps to set the ON and OFF times and set temperatures for weekdays. (See Fig. 16)

	Weekends (Sat. - Sun.)			Weekdays (Mon. - Fri.)		
Program	ON	OFF	TEMP	ON	OFF	TEMP
P1						
P2						

Table 2 To note custom programming

NOTE:

If you are in Manual Mode, then change to Program Mode during the Program Off segments, the transmitter will switch to Manual OFF.

If you are in the Thermostat Mode, then change to Program Mode during the Program OFF segments, the transmitter will switch back to Thermostat mode.

To turn the Program Mode OFF, press the PROG button. The word PROGRAM will disappear from the LCD screen remote.

COMMUNICATION – SAFETY (C/S – TX)

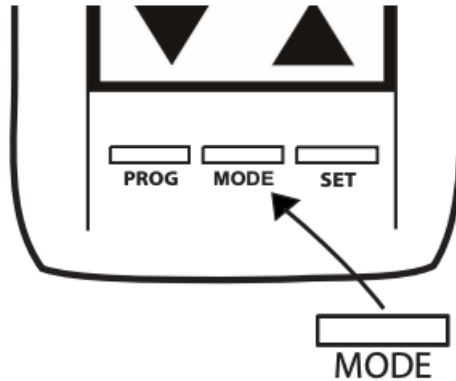


Fig. 17 Operating modes.

This remote control has a COMMUNICATION –SAFETY function built into its software. It provides an extra margin of safety when the Transmitter is out of the normal 20-foot operating range of the receiver.

At all times and in all OPERATING MODES, the transmitter sends an RF signal every 15 minutes, to the receiver, indicating that the transmitter is within the normal operating range of 20-feet. Should the receiver NOT receive a transmitter signal every 15 minutes, the receiver will begin a 2 hour (120 minute) countdown timing function. If during this 2-hour period, the receiver does not receive a signal from the transmitter, the receiver will shut down the appliance being controlled by the receiver. The receiver will then emit a series of rapid “beeps” for a period of 10 seconds. Then after 10 seconds of rapid beeping, the receiver will continue to emit a single “beep” every 4 seconds until a transmitter MODE button is pressed to reset the receiver.

CHILDPROOF “LOCK-OUT” – (CP)



Fig. 18 Childproof lock-out.

This remote control includes a CHILDPROOF “LOCK-OUT” feature that allows the user to “LOCK-OUT” operation of the appliance from the TRANSMITTER.

- To activate the “LOCK-OUT” feature, press and hold the **UP** touch button and the **SET** button together for 5

seconds. The lock icon will appear on the LCD screen.

- To disengage the “LOCK-OUT”, press and hold the **UP** touch button and the **SET** button together for 5 seconds or more, the lock icon will disappear from the LCD screen and the transmitter will return to its normal operating condition.
- When the Transmitter is in “LOCK-OUT” mode, programmed functions will go on without interruption; Only manual functions are prevented.

SETTING THE TEMPERATURE SWING (TEMPERATURE DIFFERENTIAL)

The Thermo Mode on the transmitter operates the appliance whenever the room temperature varies a certain number of degrees from the set temperature. This variation is called the “**SWING**” or **TEMPERATURE DIFFERENTIAL**. The factory preset swing temperature is 2° F (1° C). To change the “Swing Setting:”

- Press the **SET** button and the **DOWN** touch button simultaneously to display the current “swing” setting in the set temp frame. The letter “S” will display in the room temp frame on the LCD screen.
- Press the **UP** or **DOWN** touch button to adjust the “SWING” temperature (1°- 3° F) (1°- 2° C).
- To store the “swing” setting press the **SET** button, and the new “swing” setting will be automatically programmed.

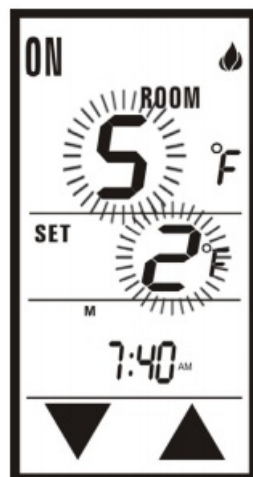


Fig. 19 Swing setting.

TRANSMITTER WALL MOUNT BRACKET

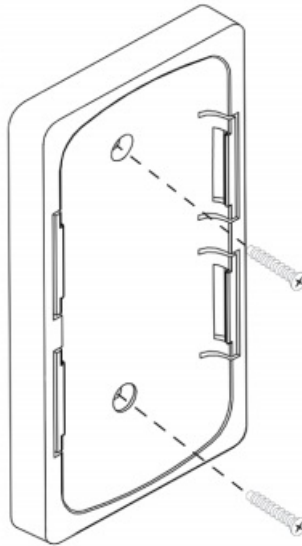


Fig. 20 Wall plate mounting.

The transmitter can be placed on a wall using the mount provided.

- Wood – Drill 1/8" pilot holes and install with screws provided.
- Plaster/Wallboard – Drill 1/4" holes, use a hammer to tap in the two plastic anchors. Then install with the screws provided.

WARNING

This remote control system must be installed exactly as outlined in these instructions. Read all instructions completely before attempting installation. Follow instructions carefully during installation. Any modifications of this remote control or any of its components will void the warranty and may pose a fire hazard.

Consult gas appliance manufacturer's instructions and wiring schematics for proper placement of all wires. All electronic modules are to be wired to manufacturer's specifications.

The following wiring diagrams are for illustration purpose only. Follow instructions from manufacturer of gas valve and/ or electronic module for correct wiring procedures. Improper installation of electric components can cause damage to electronic module, gas valve and remote receiver.

RECEIVER

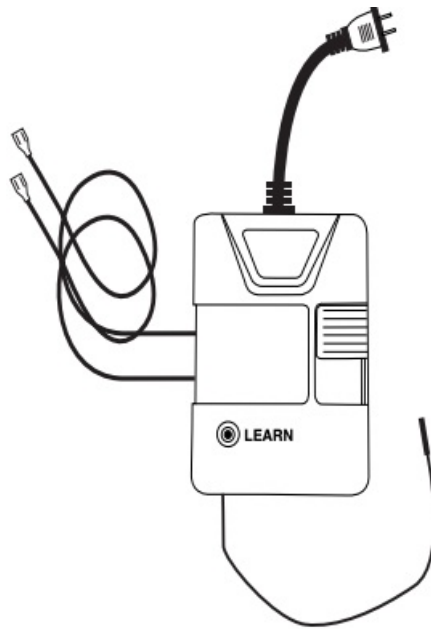


Fig. 21 Electric receiver.

When plugged into a standard 110-120 VAC receptacle, the remote receiver operates on commands from the transmitter or from the slide switch on the face of the receiver (This switch is to be used during a power outage to operate the appliance manually).

- **ON:** will manually turn ON the appliance.
- **REMOTE:** will allow use of handheld transmitter. If the system does not respond to the transmitter on initial use, ensure it is plugged into a 110- 120VAC receptacle . If that does not work, see the LEARNING TRANSMITTER TO RECEIVER section.
- **OFF:** will disable the remote receiver.
- **Place the slide switch in the OFF position if you will be away from your home for an extended period of time.**

The remote receiver is manufactured with a “dry contact” relay in its circuitry that operates like an ON/OFF switch. However, no power or current passes from the 110-120VAC input side to the wires leading from the output side of the remote receiver.

INSTALLATION

Protection from extreme heat is very important. The remote receiver should be kept away from temperatures exceeding 130°F. Extreme heat can cause damage, which is not covered under warranty.

- Before installation, make sure you turn the slide switch to **OFF**. After installation, make sure you turn the slide switch to **REMOTE**.
- The remote receiver can be placed on the fireplace hearth or under the fireplace behind the control access panel.
- Use the wires attached to the remote receiver to connect to the gas valve or the electric module (piggyback connectors have both male & female terminals for flexibility).
- Be sure that the connectors do not touch each other or other bare metal surfaces; this will cause the appliance to turn ON. The connectors may be wrapped with electrical tape to prevent this.

WIRING INSTRUCTIONS

A qualified electrician should install the remote control system.

MILLIVOLT VALVES

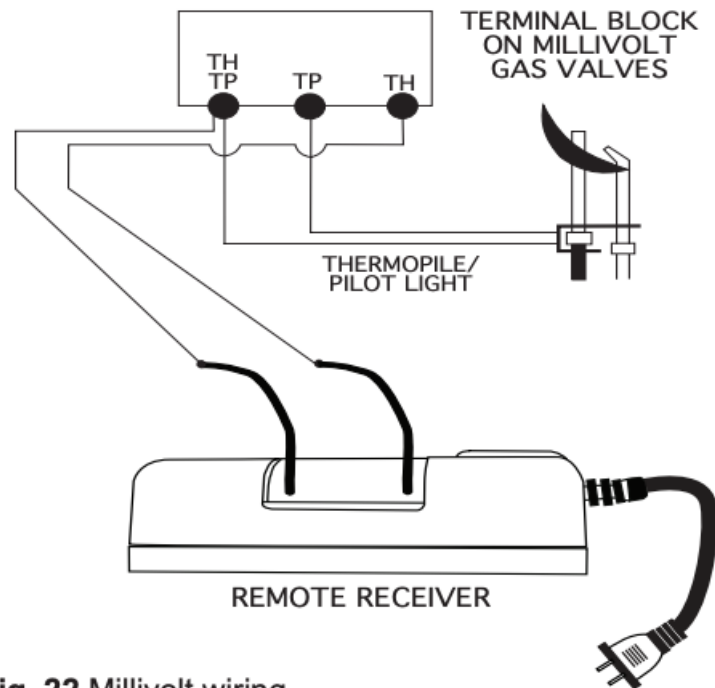


Fig. 22 Millivolt wiring.

- Connect one wire from the remote receiver to the TH terminal on the gas valve.
- Connect the other wire from the remote receiver to the TH/TP terminal on the gas valve.

MILLIVOLT SYSTEM CHECK

- Ensure that the pilot flame is lit.
- Slide the 3-position button on the remote receiver to the **ON** position. The main gas flame (i.e., the fire) should ignite.
- Slide the button to **OFF**. The main flame should extinguish (the pilot flame will remain on).
- Slide the button to **REMOTE**, then press the **ON** button on the transmitter to change the system to ON. The main gas flame should ignite.

ELECTRONIC SPARK IGNITIONS

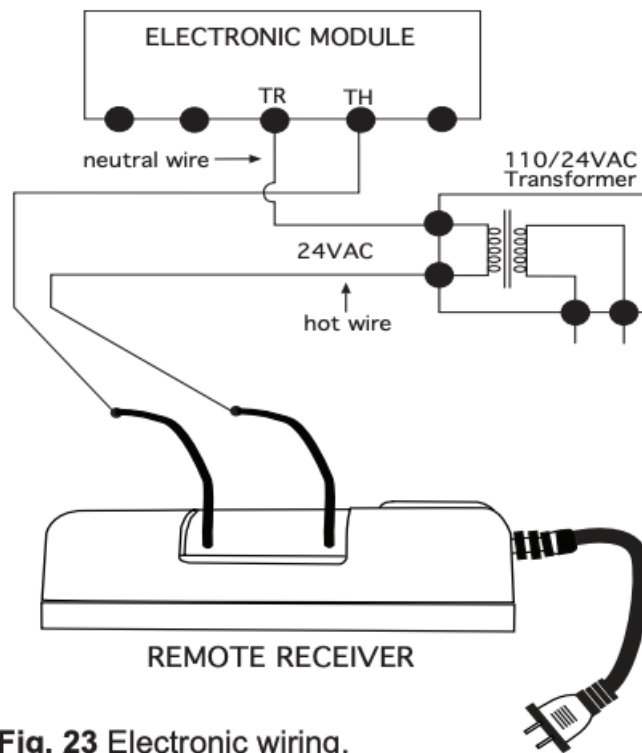


Fig. 23 Electronic wiring.

The remote control receiver can be connected, in series, to a 24VAC transformer to the TR (transformer) terminal on the ELECTRONIC MODULE. Connect the hot wire from the 24VAC transformer to either of the wires on the remote receiver. Connect the other wire from the receiver to the TH (thermostat) terminal on the ELECTRONIC MODULE.

ELECTRONIC SPARK SYSTEM CHECK

- Slide the 3-position button on the remote receiver to the **ON** position. The spark electrode should begin sparking to ignite the pilot. After the pilot flame is lit, the main gas valve should open and the main gas flame should ignite.
- Slide the button to **OFF**. The main gas flame and pilot flame should both extinguish.
- Slide the button to **REMOTE**, then press the ON button on the transmitter to change the system to ON. The spark electrode should begin sparking to ignite the pilot. After the pilot is lit, the main gas valve should open and the main gas flame should ignite.

LEARNING TRANSMITTER TO RECEIVER

Each transmitter uses a unique security code. It will be necessary to press the LEARN button on the receiver to accept the transmitter security code upon initial use or if a replacement transmitter is purchased from your dealer or the factory. In order for the receiver to accept the transmitter security code, be sure the slide button on the receiver is in the REMOTE position; the receiver will not LEARN if the slide switch is in the ON or OFF position. The LEARN button is located on the front face of the receiver; inside the small hole labeled LEARN. Press and Release the black LEARN button inside the hole. When you release the LEARN button the receiver will emit an audible "beep". After the receiver emits the beep press the transmitter MODE button and release. The receiver will emit several beeps indicating that the transmitter's code has been accepted into the receiver.

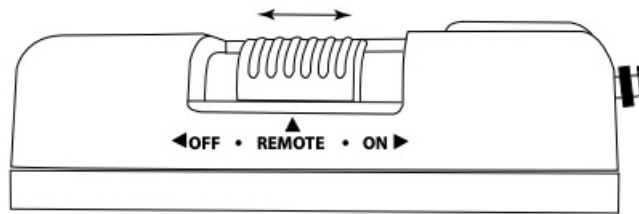


Fig. 24 Receiver slide switch.

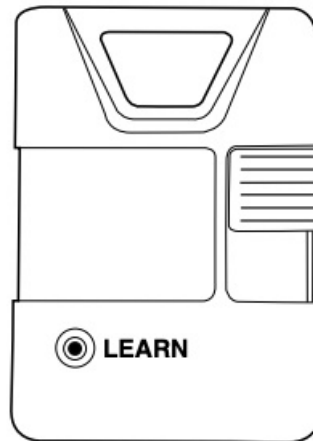


Fig. 25 Learn button.

THERMO SAFETY FEATURE

If the receiver at anytime should reach 130°F, the receiver will automatically shut down and begin to beep 3 beeps every 2 seconds. Once the temperature has dropped between 120°F and 130°F, the user can reactivate the appliance by pressing the MODE button, but the beeping will continue until temperatures drop below 120°F. This is to tell the user that the receiver needs to be relocated to reduce temperatures.

If this situation happens, the receiver should be placed somewhere else where it will not reach temperatures in excess of 130°F.

BATTERY LIFE

Life expectancy of the alkaline batteries in the transmitter should be at least 12 months. Check and replace all batteries:

- Annually.
- When operating range becomes reduced.
- When transmissions are not received by the remote receiver.
- If the hand held transmitter batteries measure less than 5.3 volts all (4) batteries in combination).

TROUBLE SHOOTING

If you encounter problems with your fireplace system, the problem may be with either the fireplace itself or with the remote. Review the fireplace manufacturer's operation manual to make sure all connections are properly made, then check the operation of the remote in the following manner:

- Make sure all batteries are correctly installed in the transmitter and receiver. Also check that the batteries are fully charged.
- Check batteries in transmitter to ensure contacts are touching (+) and (-) ends of battery. Bend metal contacts

in for tighter fit.

- Be sure receiver and transmitter are within 20 to 25-foot operating range.
- Keep receiver from temperatures exceeding 130° F.
- If no beeps are heard from the receiver clear codes by pressing and holding the learn button for 10 seconds, then release.
- Check to ensure the pilot knob (on gas valve) is in the ON position.
- If receiver is beeping, refer to page 5 for COMMUNICATION SAFETY.
- If receiver is installed in a tightly enclosed metal surrounding, the operating distance will be shortened.
- Make sure the hand-held transmitter and remote receiver are communicating properly (see LEARNING TRANSMITTER TO RECEIVER on page 8).

FCC REQUIREMENTS

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THE EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Industry Canada license – exempt RSS standard(s).

Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This device complies with RSS 210 of Industry Canada. This Class B device meets all the requirements of the Canadian interference causing equipment regulations.

FOR TECHNICAL SERVICE, CALL:

U.S. INQUIRIES

(855) 498-8324 or (260) 459-1703

CANADIAN INQUIRIES

(877) 472-3923

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