P/N 127160-01
Rev. B, 04/2017

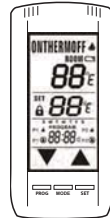**TSRC TOUCHSCREEN
REMOTE CONTROL KIT**

TSRC TOUCHSCREEN REMOTE CONTROL KIT

[FOR USE WITH MODELS ALPHA32/36, GAMMA26, BLAZE&GLOW18/24, MAGNIFLAME24/30, MULTI-SIDED27 NORTHERNOAK27, DUAL-FLAME EOS18, SHERIDAN18/24, RIOLIGHTS24/30, VRT4032/36, VCT4032/36, VCM3026, CIS VF, GLOW-RAMP BGE18/24, MULTI-SIDED FVFM27, VF18/24, DUAL BURNER VD1824, ODYSSEY36/42, VRE3036/42, CHELSEA21, CONCORD26]

KIT CONTENTS

1 ea. Remote Control
4 ea. AA 1.5 volt batteries (for receiver)
4 ea. 1 ea. Instruction Sheet

Cat. No.	Model	Description
F1079	TSRC	Receiver & Touchscreen Remote Kit

REQUIRED TOOLS AND SUPPLIES
Flat Blade Screwdriver

GENERAL INFORMATION

The hand-held touchscreen remote control allows the fireplace to be operated in a manually or thermostatically controlled mode.

READ ALL THE STEPS BEFORE STARTING THE INSTALLATION

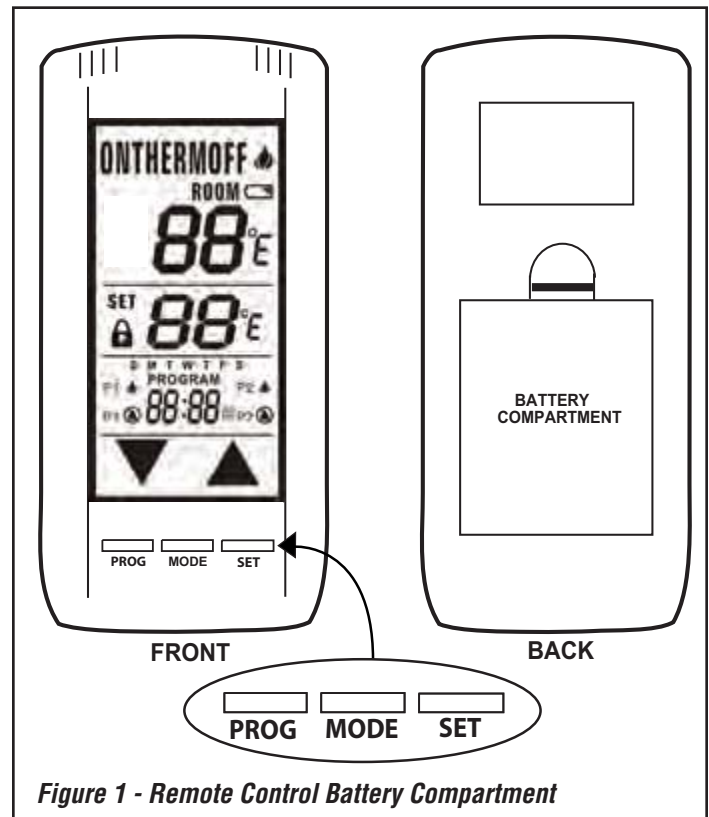**THE APPLIANCE MUST BE OFF AND COLD BEFORE BEGINNING.**

ALL WARNINGS, PRECAUTIONS AND INSTRUCTIONS IN THE INSTALLATION AND OPERATION MANUAL PROVIDED WITH THE APPLIANCE APPLY TO THESE INSTRUCTIONS.

If you encounter any problems, need clarification of these instructions or are not qualified to properly install this kit, contact you local distributor or dealer.

If any of these parts are missing or damaged, contact your dealer or IHP.us.com for referral information.

INTRODUCTION
This remote control system was developed to provide a safe, reliable, and user-friendly remote control system for gas heating appliances or other compatible appliances. The system can be operated manually from the transmitter.

The transmitter operates with (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 they LCD screen does not illuminate when you touch it, check battery position and if the batteries are fully charged.

Figure 1 - Remote Control Battery Compartment

KEY 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.
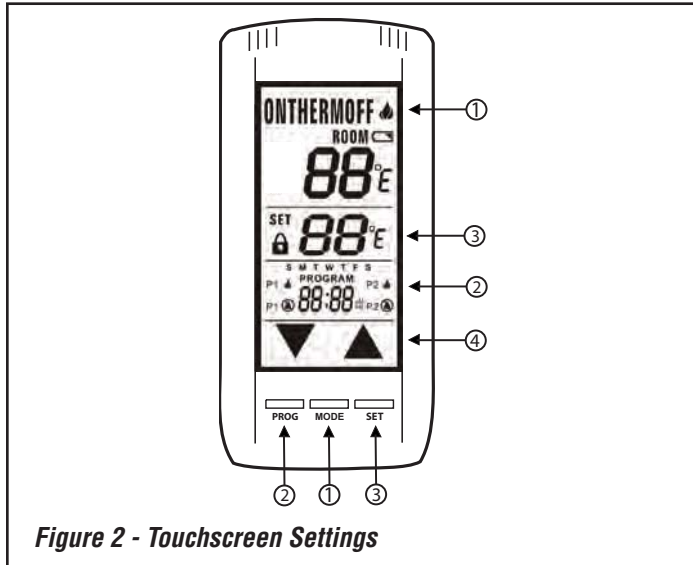4. **UP** and **DOWN** - Used to change the time, set temp, and programming functions.

Figure 2 - Touchscreen Settings

MODE FUNCTION

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** - Child lock out.
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.
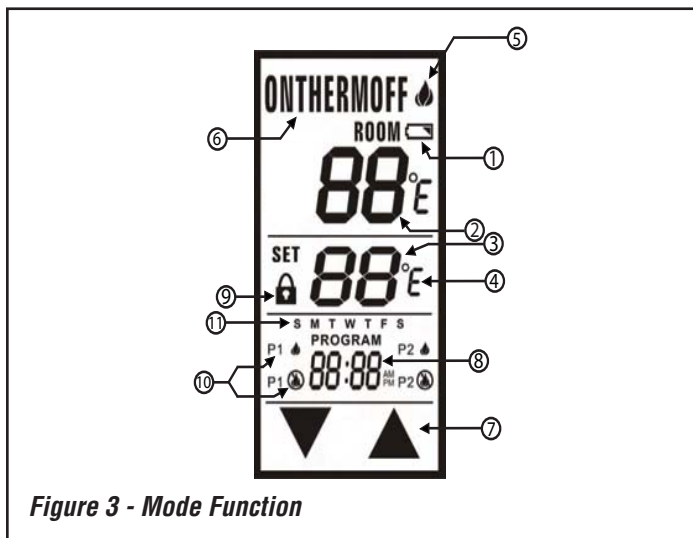

Figure 3 - Mode Function

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

To select an operation mode, press the MODE button or touch the MODE SECTION at the top of the LCD screen.

- **ON** turns the appliance ON, the flame icon will appear.
- **THERMO** sets the remote to Thermo mode.
- **OFF** turns the appliance OFF, the flame icon will disappear.

SETTING ºF/ ºC SCALE

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

NOTE: When changing between the ºF and ºC scales, the set temperature defaults to the lowest temperature (45 ºF, or 6 ºC).
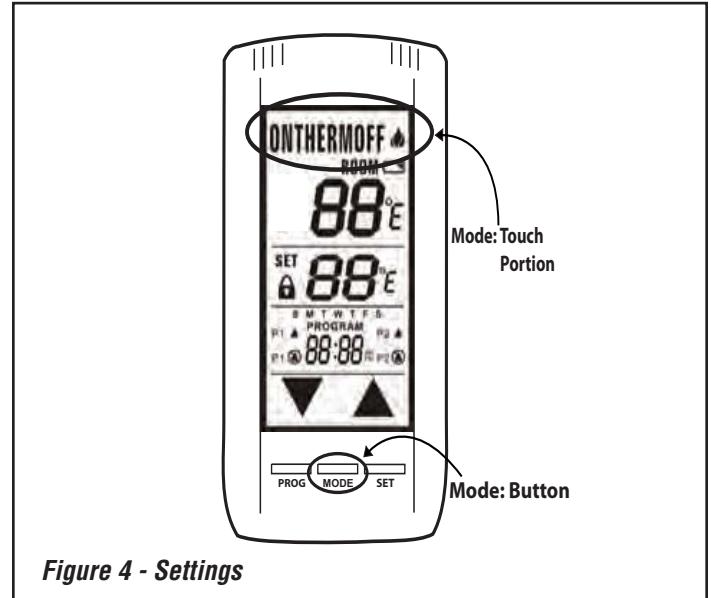

Figure 4 - Settings

SETTING THE CLOCK

1. Press and hold the **SET** button, or touch the **SET** section on the touch screen, for 5 seconds. The hour section should begin to flash. (Fig. 5).
2. Use the **UP** and **DOWN** touch buttons to select the hour, then press **SET**.
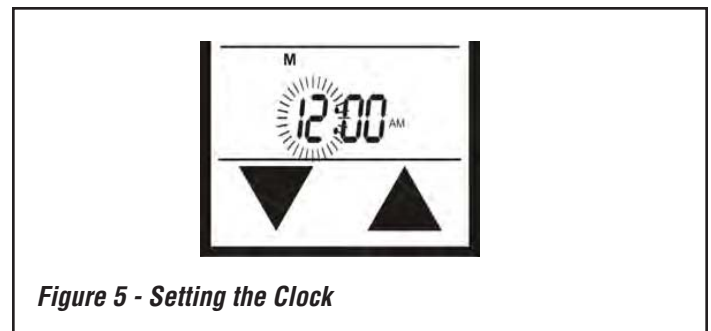

Figure 5 - Setting the Clock

3. The minutes will be flashing. Use the **UP** and **DOWN** touch buttons to select the minute, then press **SET**. (Fig. 5A, page 3).
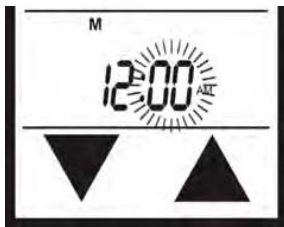
IHP.us.com

Figure 5A - Setting the Clock

4. The AM PM will be flashing. Use the **UP** and **DOWN** touch buttons to select one of them, then press SET. (Fig. 5B).

Figure 5B - Setting the Clock

5. 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. (Figure 5C).

Figure 5C - Setting the Clock

THERMOSTAT FUNCTION

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 ºF (32 ºC).

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 ºF (1 ºC) above or below the set temperature of the room. This is to cushion the number of times the appliance is turned ON and OFF.
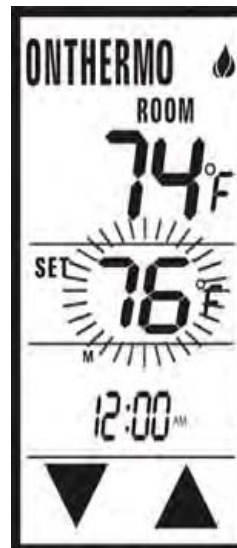

Figure 6 - Setting Thermostat

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.

PROGRAM FUNCTION

This remote has two program segments: A weekday segment and a weekend segment. To enter program mode, push the PROG button or touch the program portion of the touch screen the word PROGRAM will appear above the display time to indicate program operation is active.

THE FACTORY PRESETS ARE:

WEEKDAYS
''P1 ON'' 5:00 AM at 72ºF
''P1 OFF'' 9:00 AM
''P2 ON'' 4:00 PM at 72ºF
''P2 OFF'' 10:00 PM

WEEKDAYS
''P1 ON'' 6:00 AM at 72ºF
''P1 OFF'' 10:00 AM
''P2 ON'' 5:00 PM at 72ºF
''P2 OFF'' 10:00 PM

Figure 7 - Factory Presets

The user may override the program function by putting the remote in manual ON mode. When the user turns the remote back to OFF mode, the remote will resume regular program mode (the word PROGRAM is above the display time). To turn the program function OFF, touch the program portion on the touch screen or press the PROG button. The word PROGRAM will disappear from the LCD screen.

EDITING FACTORY PROGRAM SETTINGS
1. Program Segment: Program 1, or Program 2 (other side of LCD screen).
2. Flame On: Time when you want your appliance to turn ON.
3. Flame Off: Time when you want your appliance to turn OFF.
4. Weekend Segment: Saturday and Sunday.
5. Weekday Segment: Monday through Friday.

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

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

Press either the PROG button or touch the Program portion of the touch screen and hold for 5 seconds, the program section of the LCD screen will begin to flash.
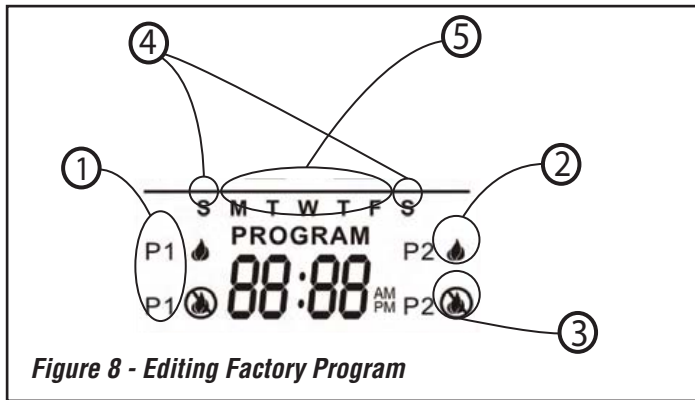

Figure 8 - Editing Factory Program

- 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 Figure 9).

Figure 9

- P1 OFF will be flashing. Select the time you want your appliance to turn off. Then press SET (See Figure 10).

Figure 10

- The set temperature will begin to flash. Use the UP and DOWN touch buttons to select a temperature for P1, then press SET *(See Figure 11)*.
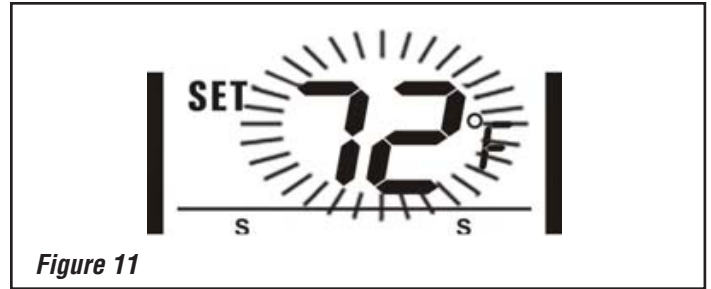

Figure 11

- 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 Figure 12).
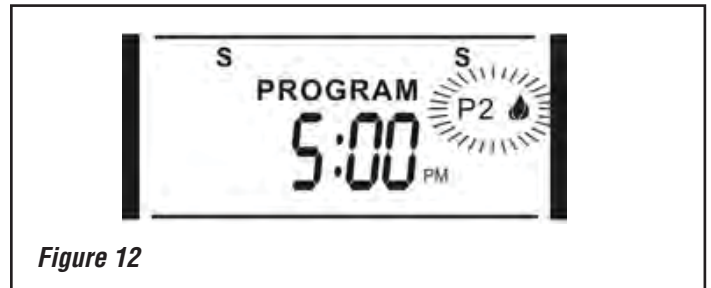

Figure 12

- P2 OFF will be flashing. Select a time you want your appliance to turn off. Then press SET (See Figure 13).
- The set temperature will begin to flash. Use the UP and DOWN touch buttons to select a temperature for P2, then press SET.
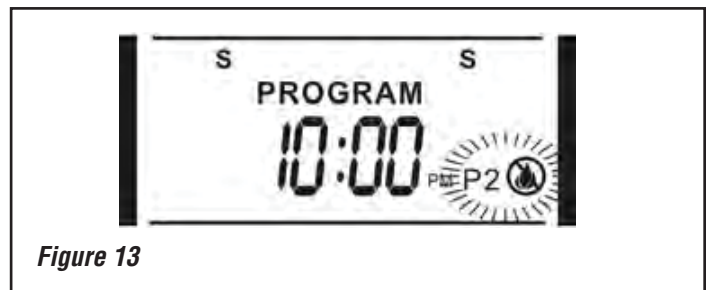

Figure 13

- "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 Figure 14).

Figure 14

SETTING 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 ºF (1 ºC). 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 (1º-3º F) (1º-2º C).

• To store the "swing" setting press the SET button, and the new "swing" setting will be automatically programmed.
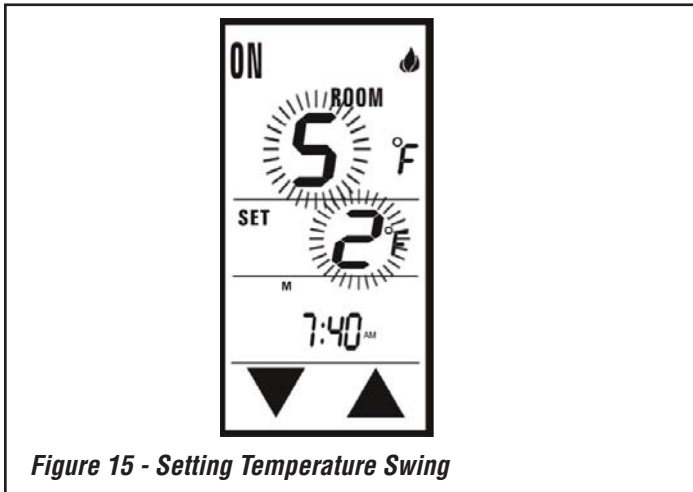

Figure 15 - Setting Temperature Swing

COMMUNICATION - SAFETY

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.
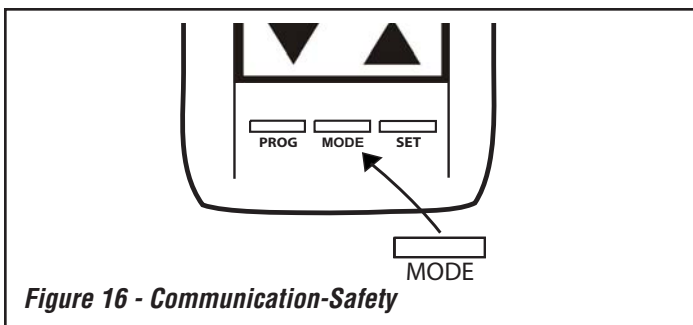

Figure 16 - Communication-Safety

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.
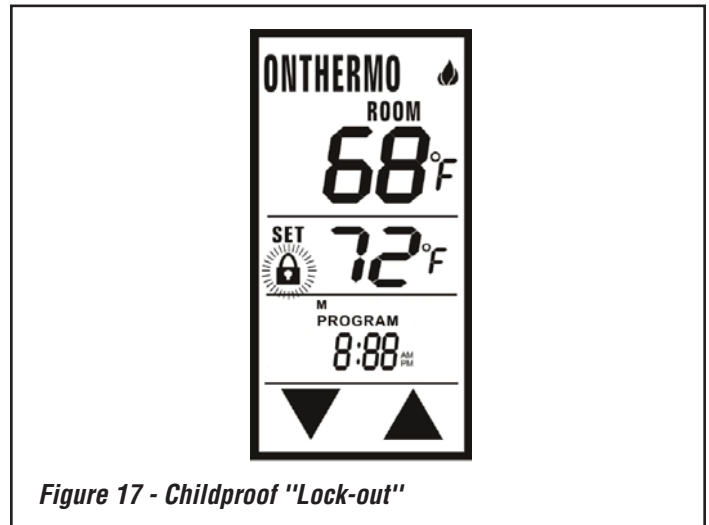

Figure 17 - Childproof "Lock-out"

RECEIVER

Install the 4 AA-size batteries supplied with the unit. 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.

The remote receiver has a 3-position slide switch for selecting the mode of operation.

ON/REMOTE/OFF

• 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, check the battery positions in the remote. If that does not work, see the LEARNING TRANSMITTER TO RECEIVER section.

• OFF: will disable the remote receiver.

• It is suggested that the slide switch be placed in the OFF position if you will be away from your home for an extended period of time.
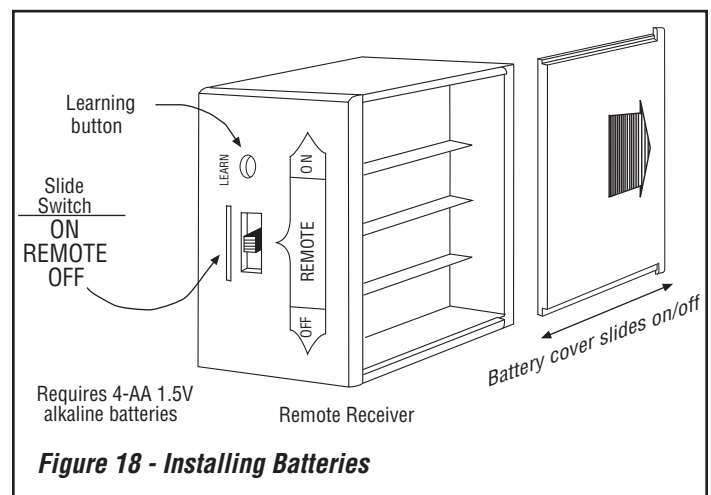

Figure 18 - Installing Batteries

INSTALLATION

The remote receiver can be either wall-mounted in a standard plastic switch box (not metal) or placed on or near the fireplace hearth.

Preferably, the remote receiver should be wall-mounted in a plastic switch box, as this will protect its electronic components from the heat produced by the gas appliance. The remote receiver should be kept away from temperatures exceeding 130° F. Battery life is also significantly shortened if batteries are exposed to temperatures 130°F or higher.

Before installation make sure the remote receiver slide switch is in the OFF position. After installation be sure that the slide switch is moved to the REMOTE position.

MOUNTING REMOTE RECEIVER WALL MOUNT

When wall mounting the remote receiver, longer wires (not included) are required to connect to the gas valve or electronic module.

These wires must: Be at least 18 Gauge (AWG), no longer than 20-feet and have no splices.

Position the receiver as shown in diagram to the left with lower tab on cover plate inserted into groove of receiver (Make sure LEARN hole on cover plate properly aligns with remote receiver). Pull receiver up and snap into top tab of cover plate.
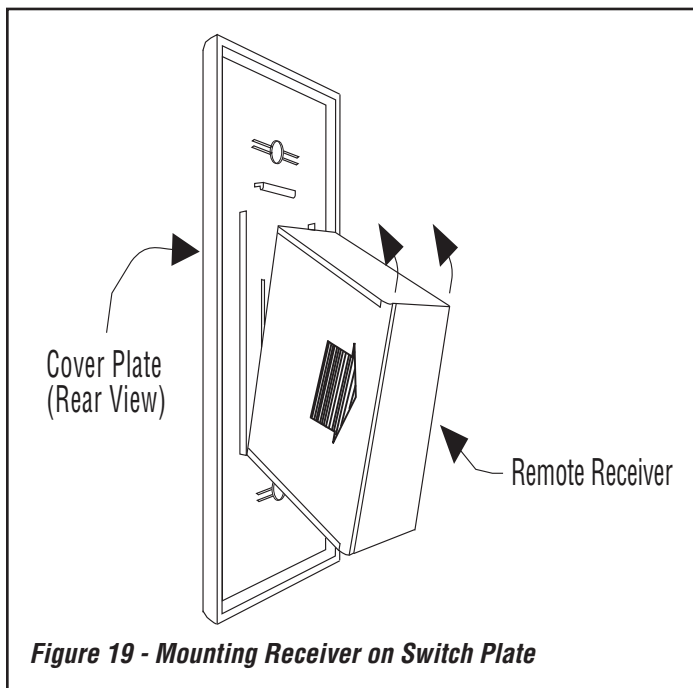

Figure 19 - Mounting Receiver on Switch Plate

Position the cover plate so the word ON is facing up; then, install the remote receiver into the plastic switch-box using the two long screws provided. Push the white button over the receiver slide switch.
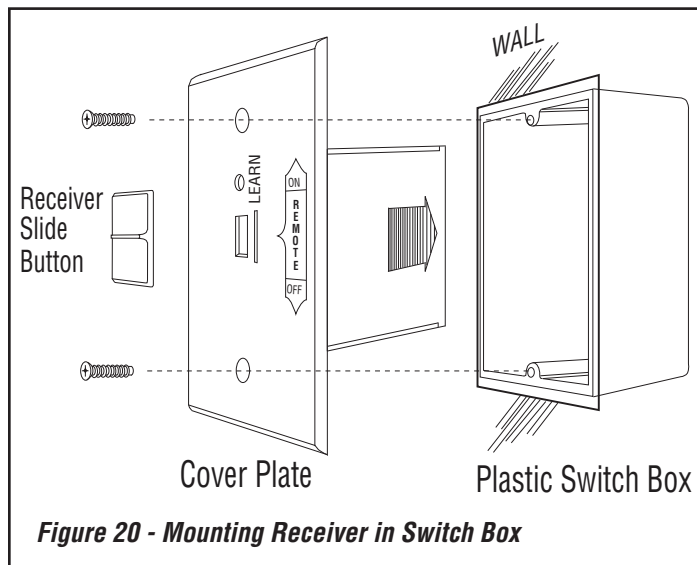

Figure 20 - Mounting Receiver in Switch Box

HEARTH MOUNT

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.
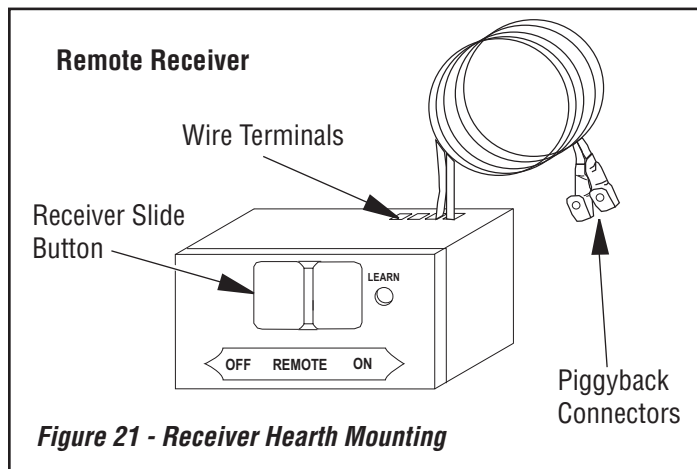

Figure 21 - Receiver Hearth Mounting

WIRING INSTRUCTIONS

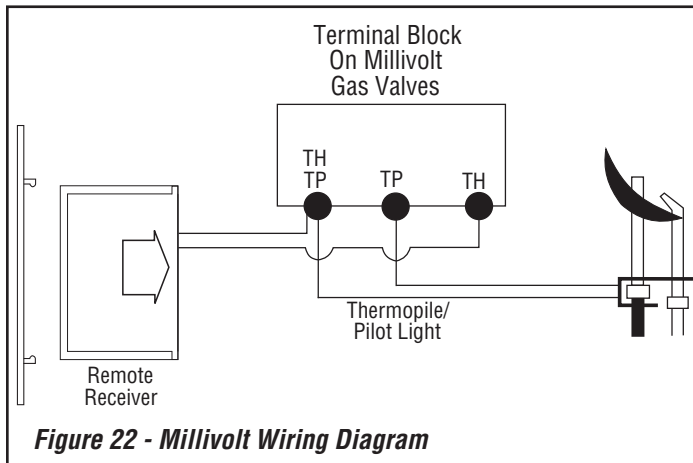A qualified electrician should install the remote control system.

WIRING MILLIVOLT VALVES

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.
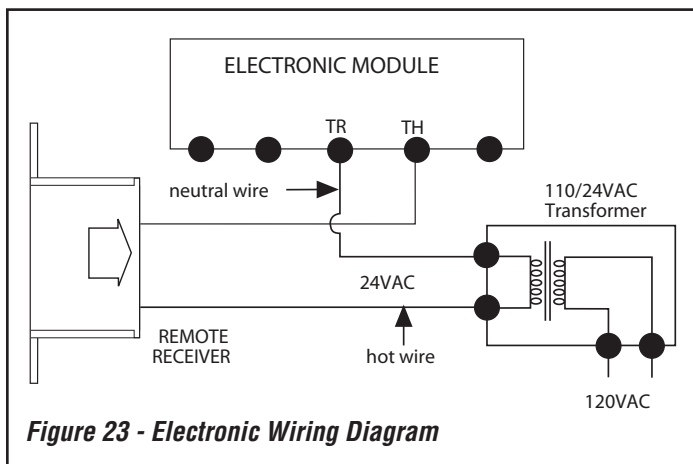

Figure 22 - Millivolt Wiring Diagram

WIRING ELECTRONIC SPARK IGNITIONS

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 wire terminals on the remote receiver. Connect another wire between the other receiver wire terminal and 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.

Figure 23 - Electronic Wiring Diagram

GENERAL INFORMATION
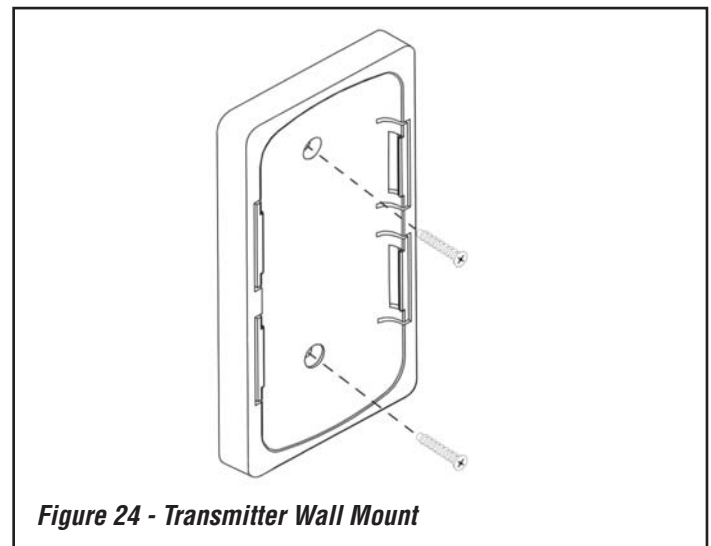## LEARNING TRANSMITTER TO RECEIVER

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, if batteries are replaced, 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 in located on the front face of the receiver; inside the small hole labeled LEARN. Using a small screwdriver or end of a paperclip gently 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.

THERMO SAFETY FEATURE

If the receiver should reach 130°F, the receiver will automatically shut down and you'll hear 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 key, 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 relocated so it will not reach temperatures in excess of 130°F.

TRANSMITTER WALL MOUNT

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.

Figure 24 - Transmitter Wall Mount

BATTERY LIFE

Life expectancy of the alkaline batteries in the transmitter and receiver 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 remote receiver batteries measure less than 5.3 volts (all four batteries in combination).

If the hand held transmitter batteries measure less than 5.3 volts (all 4 batteries in combination).

TROUBLESHOOTING

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 make sure contacts are touching (+) and (-) ends of battery. Bend metal contacts in for tighter fit.
- Be sure receiver and transmitter is within 20 to 25-foot operating range.
- Keep receiver from temperatures exceeding 130° F. Battery life will be shortened if exposed to high temperatures.
- 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 section).

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.*

TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. Please contact your IHP dealer for any questions or concerns. When contacting your dealer please have your model and serial numbers of your appliance ready. You can also visit our web site at IHP.us.com.

INNOVATIVE HEARTH PRODUCTS