

## INSTALLATION AND OPERATING INSTRUCTION

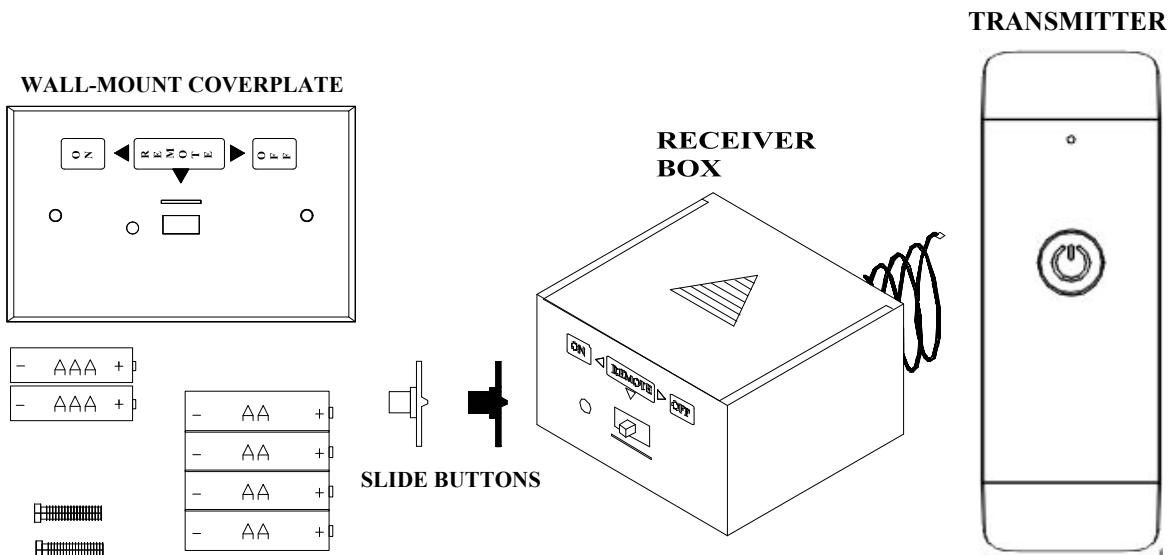
If you are unable to read or understand these instructions  
do not attempt to install or operate

Please keep these Instructions for future reference.

### ★ INTRODUCTION

The **ON/OFF model** thermal remote control system was developed with the latest radio frequency (RF) technology. The **ON/OFF model** is easy to install. It allows the user to operate a gas appliance manually with a user-friendly remote control system which does not require any household electric current. The range of operation is approximately 20 feet (7 meters). The operating code of this remote control system has been pre-programmed for instant operation after installation. However, its special code-learning feature (on the receiver) allows the user to regulate the codes for operating with other transmitters for a maximum flexibility. **Note:** installation in metal cabinets may limit the range of operation

### ★ COMPONENTS INCLUDED



Description	QTY
Transmitter	1
"AAA" Batteries	2
Wall Mount Bracket (with Screws)	1
Receiver	1
"AA" Batteries	4
Wall Mount faceplate (with Screws)	1
Hearth Mount Slide knob (Black)	1

Wall Mount Slide knob (White)	1
Velcro	1

## ☆ INSTALLING Wall Hanging Style REMOTE SYSTEM

### (A) Getting the Transmitter Ready:

#### 1. Installing Batteries

The transmitter operates on 2 AAA-size 1.5V batteries. It is recommended that **ALKALINE** batteries always be used for longer battery life and maximum operational performance. **Rechargeable batteries are not recommended.**

- (1) Open the lid of the battery compartment on the back of the transmitter.
- (2) Insert 2 new or fully charged AAA-size 1.5V batteries into the battery compartment. Make sure the (+) and (-) ends of the batteries are correctly positioned as indicated on the casing.
- (3) When the batteries are installed, the LED on the font panel of the transmitter will flash five times.

**Note 1:** *On initial start up if there is no reaction mentioned in (3), you should either check the positions of the batteries or replace with new batteries.*

#### 2. LED Display

- ① **RF SINGAL**– When sending the ON command , the LED of transmitter will flash 3 times,when sending the OFF command , the LED will flash one time.

#### 3. Operation Functions

**Note:** *The slide switch on the receiver must be placed in the **REMOTE** position for receiving commands from the transmitter. In other words, the transmitter (remote control) only works when the receiver is set in the **REMOTE** mode (Also refer to instructions in the RECEIVER section in this manual). To change the settings on the receiver, install the black slide knob on the receiver by pushing the knob gently on the control.*

#### **(1) Turning ON/OFF the Fireplace:**

- ① To turn the fireplace on, press the  (ON/OFF) button on the transmitter.
- ② Press the  (ON/OFF) button again to turn off the fireplace.

#### 4. Communication Safety

The **ON/OFF** model has a communication-safety function built in its software. It provides an

extra margin of safety when the transmitter is out of the normal 20-foot operating range of the receiver or has a power failure.

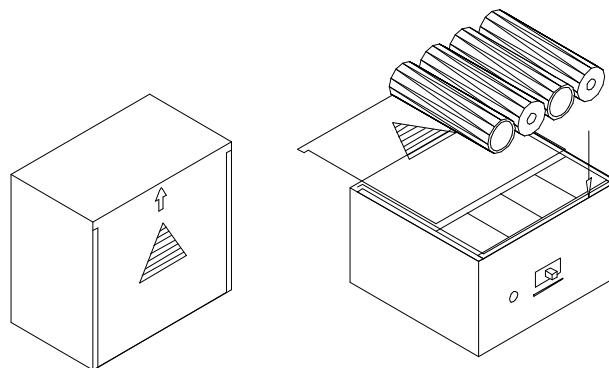
- (1) If the receiver DO NOT receive a signal from the transmitter within **24 hours** with the receiver being in **ON** mode, the receiver will automatically shut down the appliance being controlled by the receiver.

**Note:** To **reset** the receiver and operate the appliance,

- (1) Make sure the transmitter is powered by good batteries. Replace them if necessary.
- (2) Press the **⊕ (ON/OFF)** button on the transmitter to turn on the fireplace again.
- (3) Be sure to place the transmitter within 20 feet to the receiver.

### **(B) Installing the Remote Receiver:**

#### ***1. Inserting Batteries***



The receiver operates on 4 AA-size 1.5V batteries. It is recommended that **ALKALINE** batteries always be used for longer battery life and maximum operational performance. Rechargeable batteries are not recommended.

- (1) Move the slide switch to the **OFF** position.
- (2) Slide-open the battery cover on the top of the receiver.
- (3) Insert 4 new or fully charged AA-size 1.5V batteries into the battery compartment. Make sure the (+) and (-) ends of the batteries are correctly positioned as indicated on the casing.
- (4) Replace the battery cover.

#### ***2. Matching Security Code with the Transmitter***

The code of this remote control system has been pre-programmed for instant operation after installation. However, its code-learning feature allows the user to regulate the codes for

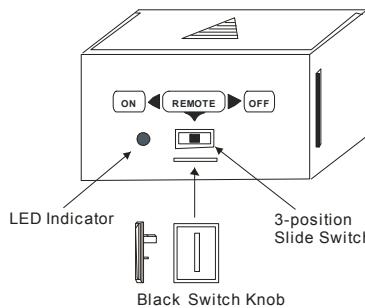
operating with other transmitters for a maximum flexibility.

### **(1) Initial Set Up**

- ① After the batteries have been inserted, slide the switch on the front panel to **REMOTE** position in the center.
- ② The red LED on the front panel will flash twice. If the transmitter press ON/OFF button 6 times within 10 seconds after power on , The receiver is ready to operate with the transmitter.

### **(2) Reset Operating Code**

It may be necessary to program the remote receiver to LEARN the security code of the transmitter upon **initial use**, if **batteries are replaced**, if a **replacement transmitter** is purchased from your dealer or the factory, or any time **the receiver does not respond to the transmitter** due to the loss of codes.



#### **● To program the remote receiver to LEARN a new security code:**

- ① Move the slide switch on the front of the remote receiver to the **OFF** position, then move it to the **REMOTE** position, the red LED on the front panel will flash twice, indicating it's ready to learn a code from the transmitter.
- ② **Press the ⏪ (ON/OFF) button** on a ready-to-use transmitter (refer to the TRANSMITTER section in this instruction manual).
- ③ If the transmitter press ON/OFF button 6 times within 10 seconds after power on, The receiver is ready to operate with the transmitter.

**Note 1:** When matching security codes, be sure the slide button on the receiver is placed in the **REMOTE** setting from the **OFF** or **ON** position and stays in the **REMOTE** position; the code will NOT "LEARN" if the slide switch is in the **ON** or **OFF** positions.

**Note 2:** When an existing receiver is matched to a new transmitter, the new security code will override the old one.

**Note 3:** If the security code matching the old one ,the receiver will exit the learn mode .

### **3. Control Panel**

**<Slide Switch>**

The remote receiver has a 3-position slide switch for selecting the mode of operation: **ON-REMOTE-OFF**.

- With the slide switch on the receiver in the **ON** position, the appliance being controlled by the remote system will remain on until the slide switch is placed in the OFF or REMOTE position.
- With the slide switch in the **REMOTE** position, the appliance will only operate if the remote receiver receives commands from the transmitter.
- With the slide switch in the **OFF** position, the appliance is off

**Note 1:** *The remote receiver will only respond to the transmitter when the 3-position slide button on the remote receiver is in the **REMOTE** (center) position.*

**Note 2:** 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. If the remote receiver is mounted out of children's reach, placing the slide switch in the OFF position also functions as a safety "lock-out" by both turning the system off and rendering the remote receiver inoperative. If the transmitter is misplaced or damaged, the appliance can be operated in the ON or OFF position until the transmitter is replaced or located.

#### **<LED Indicator>**

The LED on the front of the receiver serves for three functions:

- (1) **Communicating with Transmitter:** One flash whenever it receives the ON signal from the transmitter.
- (2) **Low Battery warning:** It'll flash twice every minute – indicating the batteries are low – to remind you to change batteries as soon as possible.

#### **4. Installation**

● The remote receiver can be either wall-mounted in a standard plastic switch box 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 both the heat produced by the gas appliance and potential damage or abuse that can occur if it is left exposed on the hearth.

● **PROTECTION FROM EXTREME HEAT IS VERY IMPORTANT.** Like any piece of electronic equipment, the remote receiver should be kept away from temperatures exceeding 140° F inside the receiver case. Battery life is also significantly shortened if batteries are exposed to high temperatures.

● **Make sure the remote receiver switch is in the OFF position.** Install the 18 gauge wire leads (included) from the receiver to the appropriate terminal wiring block connections on the millivolt gas valve or electronic module. When installing the receiver in a wall mount application an additional length of 18 gauge stranded or solid wire, with no splices and measuring no longer than 20 feet total run, can be used to install the receiver box to the gas appliance. Do not install the receiver in a metal electrical box.

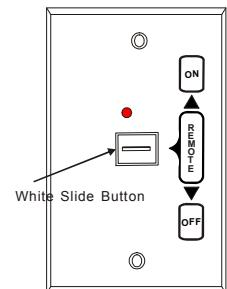
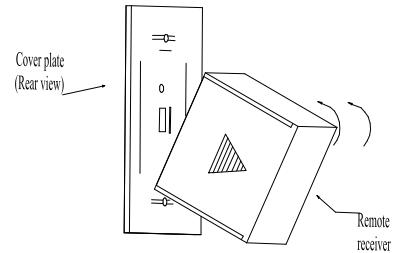
This can create problems with the RF transmission of the remote system.

### ● Hearth Mount

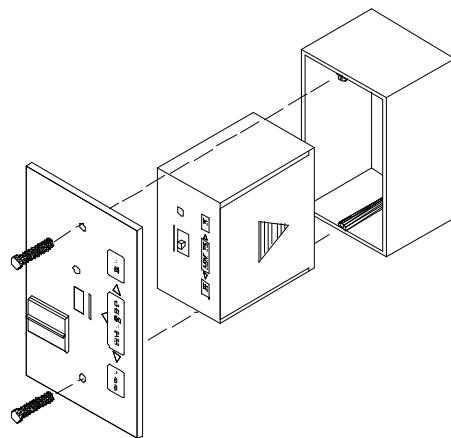
- (1) The remote receiver can be placed on the fireplace hearth or under the fireplace, behind the control access panel.
- \*(2) Position it where the ambient temperature inside the receiver case does not exceed 140 degree F.**
- (3) With the battery compartment on top, push the **Black slide Button** over the receiver slide switch. (Do not use the white slide button which is to use with the wall-mount plate.).  
**Make sure tab on slide button fits into groove on the receiver front panel.**
- (4) Use the Velcro included in the package to adhere the receiver onto the hearth.

### ● Wall Mount

- ① Attach the wall cover plate to the receiver box: Position the receiver as shown in diagram with lower tab on wall cover plate into groove of receiver (**Make sure LED hole on cover plate properly aligns with remote receiver**)
- ② Pull receiver up and snap into top tab of cover plate.
- ③ Position the wall cover plate so the word ON is facing up.
- ④ Install the remote receiver into the plastic switch box using the two long screws provided.
- ⑤ Push the **White slide Button** (not the black one) over the receiver slide switch. Make sure tab on slide button fits into groove of wall cover plate.



**Note:** When the remote receiver is installed as a wall switch, it **should be installed in a PLASTIC switch box**. Remote functions may not operate properly if the remote receiver is installed in a steel switch box.

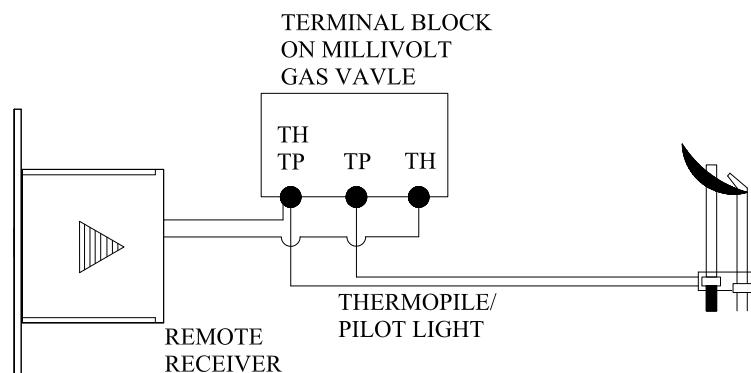


## ***5. Wiring Instructions***

A qualified electrician or a gas technician who is familiar with the gas appliance and gas valves that will be operated by this remote should install the remote control system. **Incorrect wiring connections WILL CAUSE DAMAGE to the gas valve or electronic module operating the gas appliance and may also damage the remote receiver.**

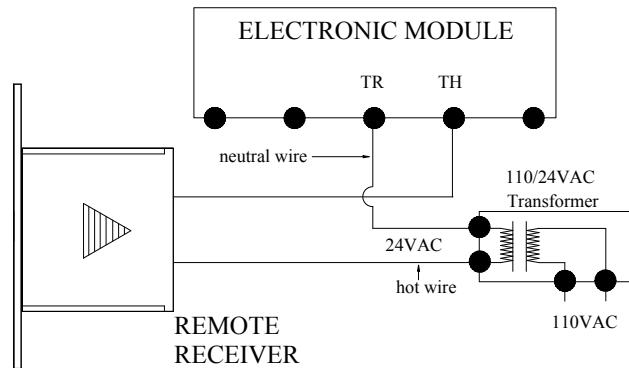
### **WIRING MILLIVOLT VALVES**

- The remote receiver is connected to the millivolt valve using the **TH** (thermostat) terminals on the terminal block on the millivolt gas valve. Connect 18 gauge stranded or solid wires from the remote receiver to the gas valve.
- Operation of the remote receiver is similar to that of a thermostat in that both turn the gas valve on and off based on input signals. A thermostat's input signals are different temperatures. The remote receiver's input signals come from the transmitter.
- Connect each of the two wires leading from the **TH** and **TH/TP** terminals on the millivolt gas valve to either of the two wire terminals on the remote receiver. Normally it does not matter which wires go to which terminal. Always consult your appliance manufacturer's installation instructions before installing the remote control system.



### **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 (18 gauge - not included) 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. Consult your manufacturer's installation instructions on this installation procedure to avoid damage to the remote system.



## 6. Thermo Safety

**Note:** The receiver will automatically turn off the fireplace if the ambient temperature in the receiver box exceeds 140 degree F.

The **ON/OFF model** has a **THERMO- SAFETY** feature that is built into the system's RECEIVER. This feature is temperature- activated and provides an extra margin of safety when the receiver is operating where ambient temperatures exceed **140 °F** degrees inside the receiver case. The receiver is thermally protected from extreme heat conditions. Heat in excess of the normal operating range can have negative effect on the operation of the receiver's microprocessors.

**Note:** To reset the receiver and operate the appliance after overheating shutdown,

- ① Allow sufficient time for the receiver to cool below 120° F,
- ② Then press ON button on the transmitter to reactivate the appliance.

## ★ TROUBLE SHOOTING

Should you encounter problems with your fireplace system, **the problem may be with the fireplace itself or it could be with the AVANTI remote control**. Review the fireplace manufacturer's operation manual to make sure all connections are properly made. Then **check the operation of the AVANTI remote in the following manner:**

- ① Make sure **receiver** batteries are installed properly. If one battery is installed backward, receiver will

not operate in remote mode. Be sure battery output is 5.0 volts or more. (Receiver slide switch is independent of battery condition in ON or OFF settings.)

- ② Be sure the **transmitter**'s batteries are properly installed and that the battery output is 5.0 V or more.
- ③ Check to make sure the transmitter is communicating with the receiver.
  - If the slide switch on the receiver is placed in the **REMOTE** position.
  - If the **LED on the receiver** flashes once when the ON button is depressed on the transmitter they are communicating.
  - If the LED on the receiver does not flash when the ON button is depressed on the transmitter, you will need to **teach the receiver the code of the transmitter**. This is done by sliding the slide switch on the receiver to OFF then to REMOTE again and the LED on the receiver flashes twice. Press the ON button on the transmitter and the LED on the receiver will flash twice again indicating the transmitter's code has been programmed into the receiver.
- ④ Make sure the transmitter is **within 20 feet** to the receiver.
- ⑤ Positioning of the receiver is important. If the receiver is "enclosed" in a metal surround, the operation of the receiver may be affected as noted below. Reposition the receiver to improve operating range. Installation of the receiver where metal can block the receiver will sometimes:
  - Cause the RF signal to get lost and not communicate with the receiver.
  - Cause the working distance to be shorter than normal.

**Note:** A receiver located in an area, where the ambient temperature inside the case exceeds 140 oF, will cause **THERMO-SAFETY** feature to activate. This will require the receiver to be repositioned and then "reset" the receiver's operation.

#### **<Specifications>**

- BATTERIES:
  - Transmitter 3V- 2 ea. AAA 1.5V, Alkaline
  - Receiver 6V –4ea. AA 1.5 Alkaline
- Operating Frequency: 303.825MHZ
- FCC ID No.'s: xxxxxxxx
- Canadian IC ID No.'s: xxxxxxxx00

#### **FCC REQUIREMENTS**

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

**FCC Caution:**

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** 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.