



## Model: TM-R-2A

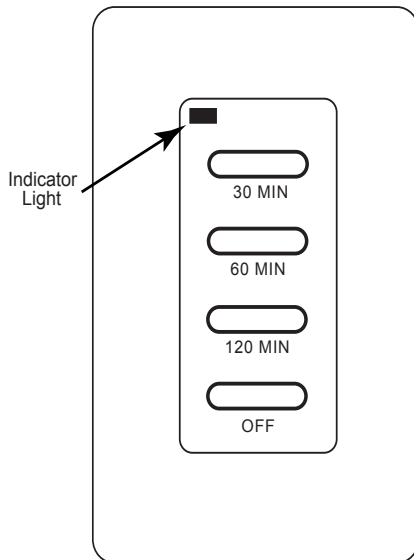
### INSTALLATION AND OPERATING INSTRUCTIONS

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

#### INTRODUCTION

This SKYTECH remote Wireless Wall Timer system was developed to provide safe, reliable, and user-friendly remote control system for gas heating appliances. This dry contact system can be operated manually from the transmitter. The system operates on one of 65,536 security codes that are programmed into the transmitter at the factory.

#### WALL TIMER



The wall timer operates on a (2) 3V button cell batteries (included) made specifically for remote controls and electronic lighters. Before using the wall transmitter, install the two (2) 3V button cell batteries. Follow the instructions below.

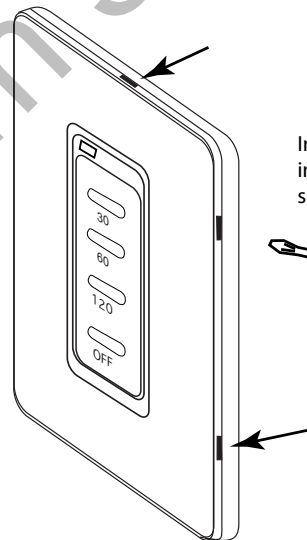
The wall timer has a 30 min, 60 min, 120 min, and OFF buttons. When any buttons on the wall timer are pressed, a signal light on the wall timer illuminates briefly to verify a signal has been sent. If the signal light does not illuminate, check the batteries. Upon initial use, there may be a delay of five seconds before the remote receiver will respond to the wall timer.

#### CALIFORNIA PROPOSITION 65

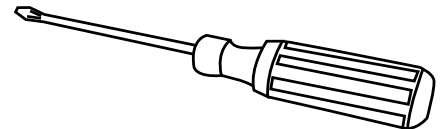


#### WARNING

This product can expose you to Tetrabromobisphenol-A, which is known to the state of California to cause cancer. (For more information, go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov))



Insert small screwdriver into slot at the top and sides to pop cover off

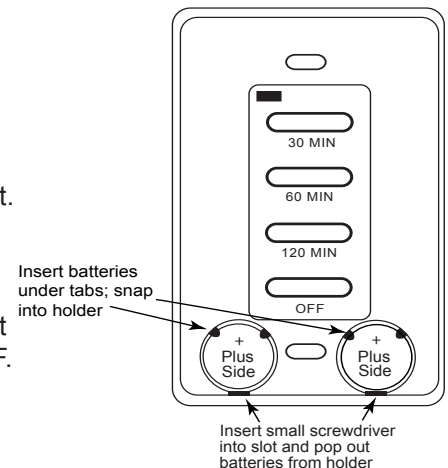


#### TO INSTALL BATTERIES

1. Remove face from backing plate by insetting a small screwdriver into the small slot at the top or bottom of the faceplate as shown below then snap OFF.
2. Locate the (2) holders for the 3V button cell batteries.
3. Place the button cell batteries into the battery holders and snap into place. (Make sure that the batteries are installed with the (+) plus side as shown to the right).
4. After the batteries are installed replace the faceplate on the base.

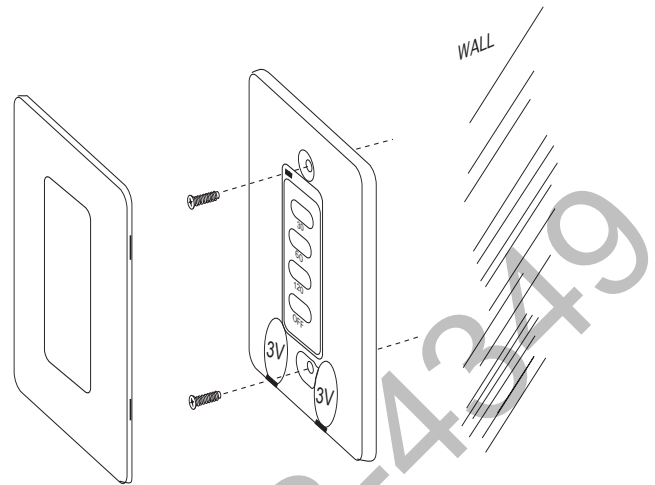
#### TO REMOVE THE BATTERIES

1. Remove face from backing plate by insetting a small screwdriver into the small slot on the side at the top or bottom of the faceplate as shown to the right then snap OFF.
2. Locate the (2) holders for the 3V button cell batteries.
3. Insert a small screwdriver into the slot at the button cell battery and pop the battery out (Slots shown in picture above).
4. After the batteries are installed replace the faceplate.



## WALL MOUNTING THE TIMER

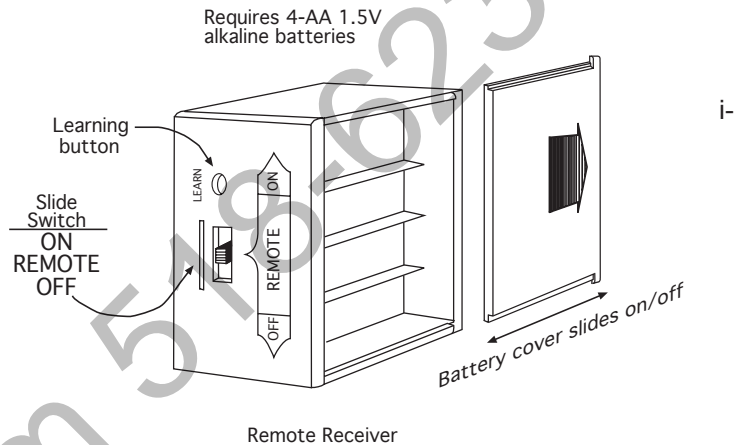
1. Remove face from backing plate by inserting a small screwdriver into the small slot at the top or bottom of the faceplate as shown to the right then snap OFF.
2. Locate the (2) two mounting holes and mark the holes on the wall.
3. Use the (2) two dry wall anchors and screws (that are supplied) to mount the base plate to the wall as shown.
4. The wall transmitter can also be mounted onto an existing (Plastic) electrical box.
5. Base plate should be mounted level on the wall for best operation.



## RECEIVER

The remote receiver operates on 4 AA-size 1.5V batteries. It is recommended that ALKALINE batteries be used for longer battery life and maximum microprocessor performance. **IMPORTANT:** New or fully charged batteries are essential for proper operation of the remote receiver.

The remote receiver houses the microprocessor that responds to commands from the transmitter to control system operation. The remote receiver has a 3-position slide switch for selecting the MODE of operation:



### ON/REMOTE/OFF

1. With the slide switch in the ON position (toward the LEARN button), the system will remain ON until the slide switch is placed in the OFF or REMOTE position.
2. With the slide switch in the REMOTE position (centered), the system will only operate if the remote receiver receives commands from the transmitter.
3. With the slide switch in the OFF position (away from the LEARN button), the system is OFF.
4. 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.

**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

### 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 the SKYTECH remote control or any of its components will void the warrant and may be pose a fire hazard.

Do not connect any gas valve or electronic module directly to 110-120VAC power. 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.

## INSTALLATION INSTRUCTIONS

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 130° F inside the receiver case. Battery life is also significantly shortened if batteries are exposed to high temperatures.

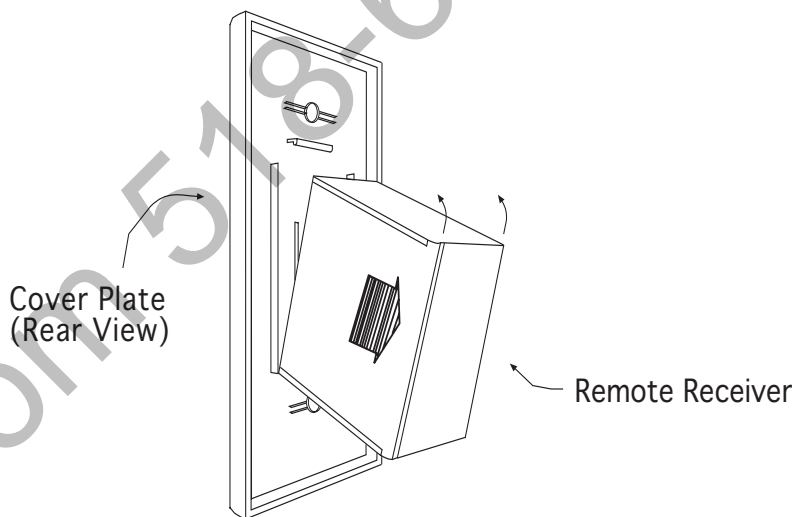
Make sure the remote receiver switch is in the OFF position. It is recommended that 18-gauge solid or stranded wires (included) be used to make connections between the terminal wiring block on the millivolt gas valve or electronic module and the wire terminals on the remote receiver. For the best results, use 18-gauge solid or stranded wire, with no splices and measuring no longer than 20-feet.

### WALL MOUNTING

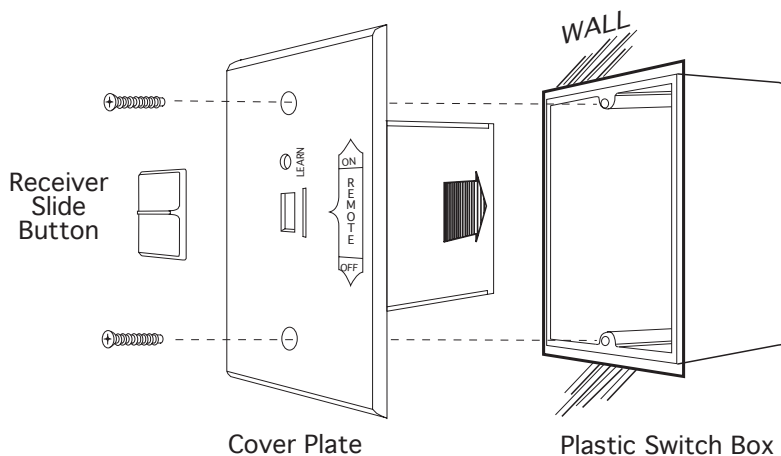
Install (4) AA-size 1.5 ALKALINE batteries in the remote receiver. For best performance, remote receiver batteries should be factory fresh when installed. Very little battery power is required to operate the remote receiver, but the electronics are tuned to operate best when battery output is greater than 5.3 volts. Four new AA batteries should provide an output voltage of 6.0 to 6.2 volts. Be sure batteries are installed with the (+) and (-) ends facing the correct direction.

To attach Cover Plate to Receiver box.

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.



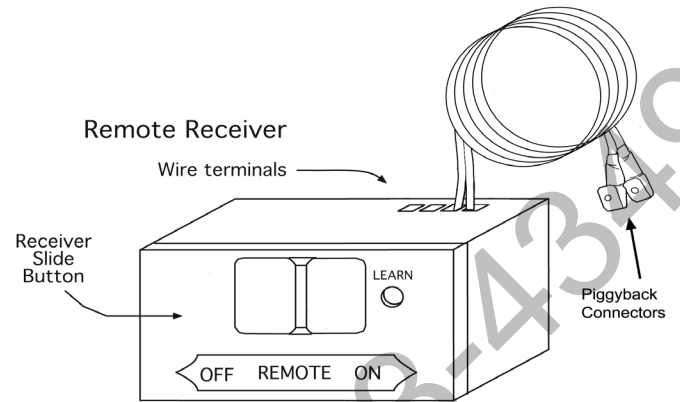
Position the cover plate so the word ON is facing up; then, install the remote receiver into the plastic switch box using the two long screws provided. Push the White Button over the receiver slide switch only after making sure the remote receiver has LEARNED the transmitter's security code (see LEARNING TRANSMITTER TO RECEIVER) section.



**NOTE:** The remote receiver will only respond to the transmitter when the 3-position slide button on the remote receiver is in the REMOTE position. If the system does not respond to the battery transmitter on initial use, see **LEARNING TRANSMITTER TO RECEIVER**, and recheck battery positions in the remote receiver.

## **HEARTH MOUNT**

The remote receiver can be placed on the fireplace hearth or under the fireplace, behind the control access panel. Position receiver where the ambient temperature inside the case does not exceed 130°F. **NOTE:** Black Slide Button is used for Hearth Mount applications.

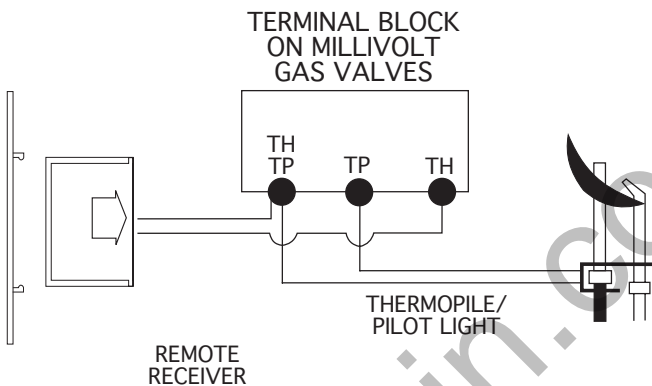


## **WIRING INSTRUCTIONS**

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**

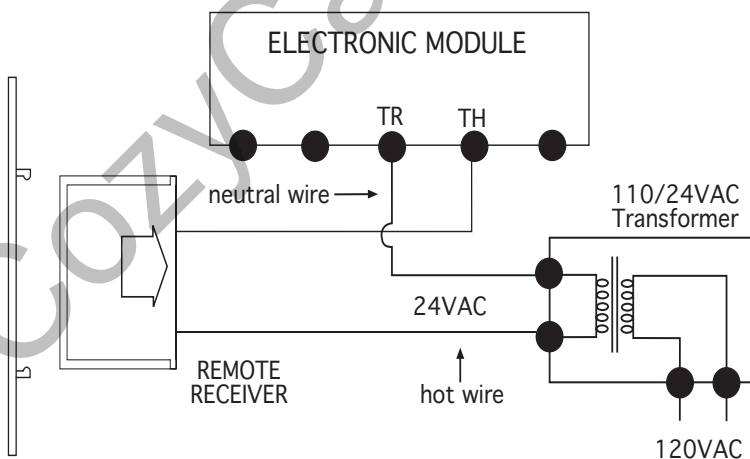
The remote receiver is connected to the millivolt valve using the TH (thermostat) terminals on the terminal block on the millivolt gas valve. Connect 18 gauge solid or stranded wires from the remote receiver to the gas valve.



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 one of the two wires leading from the receiver to the TH terminal and the other to the TH/TP terminal on the millivolt gas valve it does not matter which wires go to which terminal.

### **WIRING ELECTRONIC SPARK IGNITIONS**



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

## **SYSTEM CHECK**

### **MILLIVOLT VALVES**

Light your gas appliance following the lighting instructions that came with the appliance. Confirm that the pilot flame is ON; it must be in operation for the main gas valve to operate.

- 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 flame should extinguish (the pilot flame will remain on).
- Slide the button to REMOTE (the center position), and then press the ON button on the transmitter to change the system to ON. The main gas flame should ignite.

### **ELECTRONIC IGNITION SYSTEMS**

- Slide the 3-position button on the remote receiver to the ON position. The spark electrode should begin sparking to ignite the pilot (the pilot may ignite after only one spark). 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 (the center position), and 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.

## **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 is located on the front face of the receiver; inside the small hole labeled LEARN. Using a small screwdriver or end of a paper clip 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 ON button and release. The receiver will emit several beeps indicating that the transmitter's code has been accepted into the receiver.

### **PROGRAMING MULTIPLE TRANSMITTERS TO THIS RECEIVER**

**NOTE:** This receiver can hold from (1) to (3) different transmitter codes. This is for the times when a hand held transmitter or a second wall transmitter is required.

Press and release the LEARN button on the receiver.

1. When you hear the "Beep", **press and hold** the ON or OFF button for about 2 seconds on the transmitter.
2. A confirming series of "Beeps" will come from the receiver to indicate that the receiver has accepted the transmitter code. Then the receiver will operate with both transmitters.
3. When the LEARN button is pressed and the receiver makes NO "Beep" sound this indicates that the receiver is unable to accept any more transmitter codes.
4. To clear the codes from the receiver and start programming over or add new transmitters, **press and hold** the LEARN button in for (10) seconds and release. Then, the receiver will emit a series of three long "Beeps," indicating that the receiver has cleared all codes and is ready to accept new codes.

## **BATTERY LIFE**

Life expectancy of the alkaline batteries in the transmitter should be at least 12 months. Check and replace all batteries annually. When the transmitter no longer operates the remote receiver from a distance it did previously (i.e., the transmitter's range has decreased) or the remote receiver does not function at all, the batteries should be checked. It is important that the remote receiver batteries are fully charged and provides continuous output voltage of a least 5.3 volts. The length of the wire between the remote receiver and gas valve directly affects the operating performance of the remote system. The longer the wire, the more battery power is required to deliver signals between the remote receiver and the gas valve. Recommended length is no longer than 20 feet. The Wall Transmitter should operate with as little as 2.4 volts of battery power, measuring at each of the 3-volt button cell batteries.

## **TROUBLE SHOOTING**

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

- Make sure the batteries are correctly installed in the RECEIVER. One reversed battery will keep receiver from operating properly.
- Check battery in Wall Transmitter to make sure they are good and installed correctly.
- Be sure RECEIVER and Transmitter are within 20 to 25-foot operating range.
- Keep RECEIVER from temperatures exceeding 130°F. Battery life shortened when ambient temperatures are above 130°F.
- If RECEIVER is installed in tightly enclosed metal surround, the operating distance will be shortened.

## **SPECIFICATIONS**

BATTERIES: Transmitter (2) 3V Button Cell Batteries (CR-2032)

Remote Receiver 6V (4) AA 1.5V Alkaline FCC ID No.'s: transmitter –K9LTMR2A; receiver – K9L3301RX

Operating Frequency: 303.875MHZ

Canadian ISC ID No.'s: transmitter –2439A-TMR2A; receiver – 439A-3301RX

### **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.

**FOR TECHNICAL SERVICE, CALL:**

U.S. INQUIRIES  
(855) 498-8324 or (260) 459-1703

CANADIAN INQUIRIES  
(877) 472-3923

**Skytech Products Group**  
9230 Conservation Way  
Fort Wayne, IN 46809  
Sales Support: (888) 699-6167

**Website:** [www.skytechpg.com](http://www.skytechpg.com)

