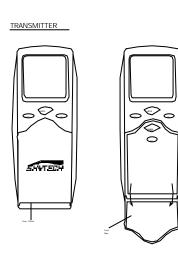
## 3301 INSTALLATION AND OPERATING INSTRUCTIONS

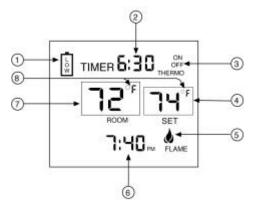
#### INTRODUCTION

This SKYTECH 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 or manually from the transmitter. The system operates on radio frequencies (RF) within a 20" 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.

Review communication safety section under transmitter section and thermo safety section under remote RECEIVER section. These signal/temperature safety features shut down the fireplace system when a potentially unsafe condition exists.



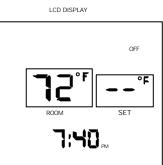
LCD DISPLAY SCREEN



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. **IMPORTANT** New or fully charged batteries are essential for proper operation of the multifunction transmitter. Insert 2 AAA-size 1.5 V batteries into the battery compartment on the back of the transmitter, positioning the (+) and (-) ends of the batteries as indicated on the casing. When the batteries are inserted, the screen at right (with similar numbers) will display.

Note: If a LOW battery icon appears on the screen. check the position of the batteries; a reversed battery will activate the LOW battery icon.

Note: Due to the sensitive temperature-monitoring components in the transmitter, it may be necessary to allow the transmitter to stabilize to room temperature before accurate room temperatures are displayed on the screen. If the transmitter is activated from a severe cold condition, it can take up to fifteen minutes for accurate temperature readings to appear.

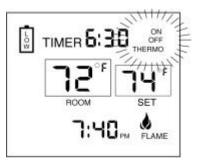


- LOW Battery power is low. Replace batteries within two weeks. 1.
- **TIMER** Indicates time remaining before system shuts off, when timer-programmed; 2. 9-hour maximum setting.
- MODE- Indicates operation MODE of system. ON indicates the system is on, either 3. manually or thermostatically. OFF indicates the entire system is turned off..THERMO indicates the system will automatically cycle on/off, depending on programmed
- SET Indicates desire SET room temperature for THERMO operation 4.
- FLAME Indicates burner/valve in operation. 5.
- 6. CLOCK – Indicates the current time in AM/PM
- 7.
- **ROOM** Indicates CURRENT room temperature. **° F** indicates degrees Fahrenheit ( **°C** indicates degrees Celsius). 8.

#### FUNCTIONS

To operate the system, press the MODE button on the front of the transmitter to select the operational MODE desired.

- ON indicates the system is on, either manually, timed or thermostatically.
- THERMO indicates the system will automatically cycle ON/OFF, depending
- on programmed set temperature.
- OFF indicates the entire system is turned off.

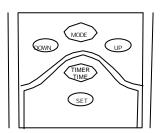


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#### SETTING THE CLOCK



BUTTON SETTINGS



Flip down the plastic cover on the front of the transmitter to expose the "SET" buttons. The flip cover protects the <u>SET</u> buttons from being changed accidentally. Close the cover after completing the following settings/programming.

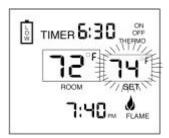
Flashing numbers on the display indicate the system is awaiting user input, such as using the UP and DOWN buttons to program a new setting. If no change is made to flashing digits within 15 seconds, the system will complete the procedure last programmed and reset the display to its normal state.

- Press and hold the TIMER/TIME button on the transmitter for more than two seconds. The 1. hour digit(s) will begin flashing.
- Press the <u>UP</u> or <u>DOWN</u> button until the desired hour is displayed in AM or PM. 2.
- After setting the desired hour, press and release the TIMER/TIME button again to set the 3. minutes; the minute digits will begin flashing.
- 4.
- Press the <u>UP</u> or <u>DOWN</u> button until the desired minutes are displayed. Press and hold the <u>TIMER/TIME</u> button again for more than two seconds. The time digits 5. will cease flashing, indicating the clock has been successfully set. You may also press the <u>SET</u> button on the transmitter to stop the time digits from flashing and set the time.

#### SETTING<sup>0</sup> F / <sup>0</sup>C SCALE

The factory setting for temperature is <sup>o</sup> F. To change this setting to <sup>o</sup>C, first press and hold the <u>UP</u> button and the <u>DOWN</u> button on the transmitter at the same time. Follow this same procedure to change from °C back to °F. When changing between the °F and °C scales, the temperature in the SET frame defaults to the lowest temperature (45° F, or 6° C). The highest SET temperature is 99° Fahrenheit (32° Celsius).

#### SETTING DESIRED ROOM TEMPERATURE



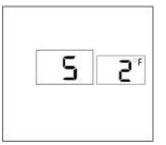
This remote control system can be thermostatically controlled when the transmitter is in the THERMO mode (**THERMO** must be displayed on the screen). To set the DESI RED room temperature, press the MODE button to place the transmitter into THERMO mode, then press the <u>UP</u> or <u>DOWN</u> button to select the desired room temperature. The highest SET temperature is 99° **Fahrenheit** (32° **Celsius**).

#### OPERATIONAL NOTE: TO CONSERVE BATTERY POWER, CHANGES IN ROOM TEMPERATURE ARE AUTOMATICALLY UPDATED EVERY TWO MINUTES TO THE TRANSMITTER.

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 normal operating cycle of an appliance may be 2-4 times per hour depending on how well the room or home is insulated from the cold or drafts. A smaller "swing number" increases the number of cycles so the room temperature is more constant. A larger "swing number" decreases the number of cycles, which saves energy, in most cases. The factory setting for the "swing number" is 2. This represents a temperature variation of  $+/-2^{\circ}$  F (1°C) between SET temperature and ROOM temperature, which determines when the fireplace will be activated. The "SWING" number values are:  $1=\pm 1^{\circ} F$  (.5° C),  $2=\pm 2^{\circ} F$  (1° C) and  $3=\pm 3^{\circ} F$  (1.6° C).

#### SETTING THE TEMPERATURE SWING (TEMPERATURE DIFFERENTIAL)



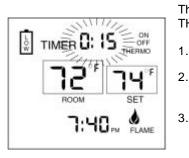
- 1. To change the temperature "SWING" setting (1-3), press the TIMER/TIME and DOWN buttons simultaneously to display the current "SWING" setting in the SET TEMP frame. The letter "S" will display in the ROOM TEMP frame on the LCD screen.
- 2. Press the <u>UP</u> or <u>DOWN</u> button to change the temperature differential or "SWING" (1-3). See above for 1-3 "SWING" temperature valves.

Skytech 3001 REV 12/01 Page 2 of 8 To store the "swing number press the <u>SET</u> button or allow 15 seconds to lapse, and the new "swing number' will be automatically programmed.

#### MANUAL CHECK OF "SWING" OR TEMPERATURE DIFFERENTIAL

The operation of the factory set "THERMO SWING" can be checked by adjusting the SET TEMP  $2^{0}$  **F** above or below the room temperature. This will cause the system to turn ON or OFF. Normally the system will only respond to temperature changes every two minutes. Manually changing the SET temperature will activate the system in less than 10 seconds. IF the "SWING" is changed, then a new room temperature  ${}^{0}$  **F**.

#### SETTING THE COUNTDOWN TIMER



This remote control system can operate with a built-in countdown timer when the transmitter is in the ON or THERMO modes (**THERMO or ON must be displayed on the screen**).

- Press and release the <u>TIME R/TIME</u> button on the transmitter. The word TIMER and 0:15 flash on the screen.
- Press the <u>UP</u> or <u>DOWN</u> button on the transmitter to begin advancing through each of the countdown time options. Available countdown times are 15 minutes, 30 minutes, 45 minutes, 1 hour, 1 hour 30 minutes, 2 hours, 2 hours 30 minutes, and each additional half-hour up to nine hours.
- To set the TIMER press the <u>SET</u> button on the transmitter if the system is ON. It will remain on until the time has expired. If the system is in the THERMO mode, it will cycle on and off as the room temperature requires until the "time" has expired.

OPERATIONAL NOTE: When the timer is used in the THERMO mode, the THERMO operation will discontinue when the "time" has expired.

#### LOW/BATTERY NDICATOR

The word LOW outlined by a battery on the left side of the LCD screen will appear when battery power has dropped significantly. At this time, approximately two weeks of battery power remains until the transmitter may experience partial or complete loss of functions. NOTE: A reversed battery will activate the LOW battery icon.



#### CHILDPROOF "LOCK-OUT" - (CP)

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



#### SETTING "LOCK-OUT" -(CP)

- 1. To activate the "LOCK-OUT" feature, press and hold the UP and <u>TIMER/TIME</u> buttons, together, for 5 seconds. The letters CP will appear in the TEMP frame on the LCD screen.
  - To disengage the "LOCK-OUT", press and hold the UP and TIMER buttons, together for 5 seconds or more, and the letters CP will disappear from the LCD screen and the transmitter will return to its normal operating condition.

<u>NOTE:</u> If the appliance is <u>already</u> operating in the ON or THERMO MODES, engaging the "LOCK-OUT" <u>will not</u> cancel the operating MODE. Engaging the "LOCK-OUT" prevents only the <u>manual operation of the TRANSMITTER</u>. If in the auto modes, the THERMO operation will continue to operate normally. To totally "LOCK- peration of the TRANSMITTER' S operating signals; the transmitter' s MODE must be set to OFF.

#### TRANSMITTER

The SKYTECH remote control operates, on RF (radio frequency) signals that are sent by the TRANSMITTER (remote) to the RECEIVER that operates the appliance. It is recommended that the TRANSMITTER <u>always</u> be located within the 20 foot operating range, preferably in the same room in which the appliance is located.

#### THERMOUPDATING FEATURE -TRANSMITTER - (T/S -TX)

This SKYTECH remote control has a THERMO UPDATING Feature built into its software. The THERMO UPDATING Feature operates in the following manner, but only in the THERMO MODES:

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The transmitter normally reads the ROOM temperature every 2 minutes checking the ROOM temperature against the SET temperature and then sends a signal to the receiver.

COMMUNICATION - SAFETY - TRANSMITTER - (C/S - TX) This SKYTECH 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.

The COMMUNICATION - SAFETY feature operates in the following manner, in all OPERATING MODES - ON/ ON THERMO/ ON TIMER.

At all times and in all OPERATING MODES, the transmitter sends an RF signal every 60 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 60 minutes, the IC software, in 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. The intermittent 4 second beeping will go on for as long as the receiver' sbatteries last which could be in excess of one year.

To "reset" the RECEIVER and operate the appliance, you must press the MODE button on the transmitter. The word ON must display on the LCD screen. By turning the system to ON, the COMMUNICATION -SAFETY operation is overridden and the system will return to normal operation depending on the MODE selected at the transmitter. The COMMUNICATION -SAFETY feature will reactivate should the transmitter be taken out of the normal operating range or should the transmitter's batteries fail or be removed.

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#### REMOTE 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. It emits one beep when it receives an ON or OFF command manually, but no beep when cycling on and off automatically in THERMO mode. The remote receiver has a 3-position slide switch for selecting the MODE of operation: ON/REMOTE/OFF

- 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.
- With the slide switch in the REMOTE position (centered), the system will only operate if the remote receiver receives commands from the transmitter.
- With the slide switch in the OFF position (away from the LEARN button), the system is off.
- 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 -out" by both turning the system off and rendering the

remote receiver inoperative.

#### THERMO-SAFETY FEATURE - RECEIVER (T/S -RX)

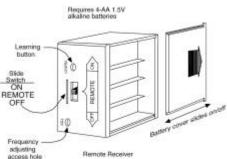
This SKYTECH remote control has a THERMO- SAFETY feature that is built into the system's RECEIVER. This feature is temperatureactivated and provides an extra margin of safety when the RECEIVER is operating where ambient temperatures exceed 130° F degrees inside the receiver case.

The THERMO-SAFETY feature, in the RECEIVER, operates in the following manner, when the appliance is in operation.

The receiver is thermally protected from extreme heat conditions. Heat can have negative effect on the operation of the receiver's microprocessors.

For REMOTE RECEIVERS that operate on BATTERY POWER, these heat conditions can cause batteries to discharge when temperatures exceed 115° F. Studies show that alkaline batteries, when exposed to a constant temperature of 115° F can lose up to 50% of their operating power. When the battery cools down, it will partially recharge itself, but constant heating and cooling will reduce the battery's normal life expectancy.

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When the ambient temperature at the THERMISTOR, *inside the receiver case*, reaches 130° **F**, the THERMISTOR will automatically shut the appliance down and the RECEIVER will begin emitting a series of 2 "beeps", every 4 seconds. When the ambient temperature, at the RECEIVER, drops between 120° **F** and 130° **F**, the user can reactivate the appliance by pushing the MODE button on the transmitter. The word ON must display on the LCD screen. When the MODE button is pressed to ON, the THERMISTOR "resets" itself and the fireplace will begin operating again. However, the "beeping" will continue, <u>if the ambient temperature remains between 120° **F** and 130° **F**. This "beeping" alerts the user that the RECEIVER should be repositioned so the ambient temperature drops below 120° **F**.</u>

When the temperature drops below  $120^{\circ}$  F, the "beeping" will cease, providing the user has "reset" the THERMISTOR by pushing the MODE button to ON to operate the appliance, either manually or thermally. Allow sufficient time for the receiver to cool below  $120^{\circ}$  F, and then press MODE button to stop beeping.

## **INSTALLATION INSTRUCTIONS**

#### 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 warranty 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 an d/or electronic module for correct wiring procedures. Improper installation of electric components can cause damage to electronic module, gas valve and remote receiver.

#### 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 130<sup>o</sup> 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 stranded or solid 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 stranded or solid wire, with no splices and measuring no longer than 20 ft.

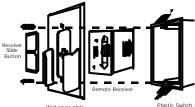
#### WALL MOUNTING

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 wall mount cover Plate/Transmitter holder to Receiver box: Position the receiver as shown in diagram to the left with lower tab on wall mount cover plate into groove of receiver (Make sure ADJ hole and LEARN hole on cover plate properly aligns with remote receiver) Pull receiver up and snap into top tab of cover plate.

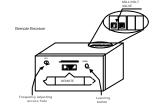
Position the wall mount cover plate so the word ON is facing up; then, install the remote receiver into the plastic switch box using the two long screws provided. Push the slide Button over the receiver slide switch only after making sure the remote receiver has LEARNED the transmitter's security code (see MATCHING SECURITY CODES). NOTE: slide Button covers both ADJ and Learn holes when properly installed.

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 MATCHING SECURITY CODES, and recheck battery positions in the remote receiver.









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#### HEARTH MOUNT

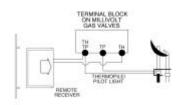
The remote receiver can be placed on the fireplace hearth or under the fireplace, behind the control access panel. Position where the ambient temperature inside the receiver case does not exceed  $130^{\circ}$  **F**. NOTE: Black Slide Button is used for Hearth Mount applications.

#### 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 **WL** cause damage to the gas valve or electronic module operating the gas appliance and may also damage the remote receiver.

#### WRING MILLIVOLT VALVES

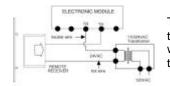
The remote receiver is connected to the millivolt valve using the TH (thermostat) terminals on the terminal block on the millivolt gas valve. Connect 18 gauge stranded or solid wires from the remote receiver to the gas valve.



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.

#### 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 (not included) between the other receiver wire terminal and the TH (thermostat) terminal on the ELECTRONIC MODULE.

# SYSTEM CHECK

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), then press the <u>MODE</u> button on the transmitter to change the system to ON. The main gas flame should ignite.
- Press the MODE button on the transmitter to change the system to OFF. The flame should extinguish (the pilot flame will remain on).
- Press the MODE button on the transmitter to change the system to THERMO. Advance the SET temperature on the transmitter to a temperature of a least 2° F (1° C) above the ROOM temperature displayed on the LCD screen. With this manual setting, the normal thermostatic cycle is overridden and the system flame will ignite. Set the SET temperature to at least 2° F (1° C) below the room temperature and the system flame will extinguish in a few seconds. Thereafter, it should continue to cycle to on and off thermostatically approximately every two minutes as the ROOM temperature changes, but only when the temperature differential between ROOM and SET temperatures differential step 2° F (1°C). The 2° F differential is the factory setting.

#### 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 flam e 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), then press the <u>MODE</u> 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.
- Press the MODE button on the transmitter to OFF. The main gas flame and pilot flame should BOTH extinguish.
- Press the MODE button on the transmitter to change the system to THERMO. Advance the SET temperature on the transmitter to a temperature of at least 2<sup>o</sup> F (1<sup>o</sup> C) above the ROOM temperature displayed on the LCD screen. With this manual setting the normal thermostatic cycle is overridden and the system flame will ignite. Set the SET temperature to at least 2<sup>o</sup> F (1<sup>o</sup> C) below the room temperature and the system flame will extinguish in a few seconds. Thereafter, it should continue to cycle to on and off thermostatically

Skytech 3001 REV 12/01 Page 6 of 8 approximately every two minutes as the ROOM temperature changes, but only when the temperature differential between ROOM and SET temperatures differ at least 2° F (1°C). (The 2° F differential is the factory setting).

#### TIMER

The countdown timer will operate in either the manual ON or THERMO mode. Once the appliance is in an operating mode, set the countdown timer to turn off in 15 minutes. The timer function will allow operation to continue until the countdown "time" on the LCD screen expires. After 15 minutes elapses, the system should turn OFF.

If you have any problems with operation, recheck you connections and ensure transmitter batteries are fully charged. If no problem is found, contact the dealer where you purchased your appliance/remote control.

## **GENERAL INFORMATION**

#### MATCHING SECURITY CODES

Each transmitter can use one of 1,048,576 unique security codes. It <u>may</u> be necessary to program the remote receiver to LEARN the security code of the transmitter <u>upon initial use</u>, if batteries are replaced, or if a replacement transmitter is purchased from your dealer or the factory. When matching security codes, be sure slide button on the receiver is in the REMOTE position; the code will NOT "LEARN" if the slide switch is in the ON or OFF position. Program the remote receiver to LEARN a new security code by pushing in the LEARN button on the top of the remote receiver and then pressing the MODE button on the transmitter. A change in the beeping pattern, at the receiver, indicates the transmitter's code has been programmed into the receiver. When an existing receiver is matched to a new transmitter, the new security code will override the old one.

The microprocessor that controls the security code matching procedure is controlled by a timing function. If you are unsuccessful in matching the security code on the first attempt, wait 1-2 minutes before trying again – this delay allows the microprocessor to reset its timer circuitry – and try up to two or three more times.

#### TRANSMITTER WALL BRACKET

The transmitter can be hung on a wall using the bracket provided. Locate the bracket on an inside wall sufficiently far away from direct sources of heat such as a fireplace, incandescent lighting, or sunlight so it detects ambient room temperatures, not a single heat source. If the bracket is installed on a solid wood wall, drill 1/8" pilot holes and install with the screws provided. If it is installed on a plaster/wallboard wall, first drill two 1/4" holes into the wall, then use a hammer to tap in the two plastic wall anchors flush with the wall, then install the screws provided. Place hole cover label over the center holes.



#### THERMO FUNCTION

When the transmitter is in the THERMO mode, it should be kept away from direct sources of heatsuch as fireplaces, incandescent lighting, and direct sunlight. Leaving the transmitter in direct sunlight, for example, will cause its heat-sensing diode to read the room temperature higher than it actually is; if in THERMO mode, it may not turn on the appliance even if the ambient ROOM temperature is below the SET temperature.

#### BATTERY LIFE

Life expectancy of alkaline batteries in the SKYTECH 3301 should be at least 12 months. Check all batteries annually. When the Transmitter or Wall Transmitter no longer operates the 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, providing a combined output voltage of at least 5.3 volts. The length of the wire between the remote receiver and the 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. The Transmitter or Wall Transmitter should operate with as little as 2.5 volts battery power, Measuring at the (2) 1.5 volt batteries.

#### TROUBLE SHOOTING

Should you encounter problems with your fireplace system, the problem may be with the fireplace itself or it could be with the SKYTECH remote control. 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:

- 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 2.5 volts or more. (Slide switch is independent of battery condition.)
- 2. Be sure the transmitter's batteries are properly installed and that the battery output is 2.5 V or more.
- 3. Check to make sure the transmitter is communicating with the receiver.

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- If the receiver beeps when the MODE button is depressed on the transmitter they are communicating.
- If the receiver does not beep when the <u>MODE</u> button is depressed on the transmitter, you will need to teach the receiver the code of the transmitter. This is done by holding the <u>LEARN</u> button down on the receiver (NOTE: Slide Button, Gray or Black, covers the LEARN access hole when installed), and at the same time depress the MODE button on the transmitter. A change in the beeping pattern, at the receiver indicates the transmitter's code has been programmed into the receiver.
- 4. Make sure the transmitter is within the 15' -20' range of 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. It is suggested that a heat shield be installed to protect the receiver from extreme heat. If the receiver is "\_\_\_\_\_\_ in a metal surround, this can:
  - Cause the RF signal to get lost and not communicate with the receiver.
  - Cause the working distance to be shorter than normal.
  - <u>NOTE</u>: A receiver located in an area, where the ambient temperature inside the case exceeds 130 <sup>o</sup>F, will cause THERMO-SAFETY feature to cut in, requiring you to reposition the receiver to stop the warning beeps, and to "reset" the receiver's operation.
- 6. Due to handling and shipping of the unit, handling or dropping of the transmitter by the customer, and heat conditions to the receiver, some units may need an occasional frequency adjustment. This adjustment is made to improve the communication and operating distance between the transmitter and the receiver. See RECEIVER ADJUSTMENT.

#### RECEIVER ADJUSTMENT - RECOMMENDED ADJUSTMENT

NOTE: The slide button, Gray or Black, covers the ADJ access hole when i nstalled.

- A To adjust at the receiver, use a small slotted screwdriver. Turn the adjustment screw counter-clockwise about 5 degrees or a maximum of 1/8 turn. This should correct the distance problem.
- B. If that does not correct the problem, return adjustment screw to original position and then turn adjustment screw clockwise.

This adjustment is like tuning your radio. If you keep turning the adjustment screw, in either direction, you will go past the proper setting (tuning).

#### SPECIFICATIONS

BATTERIES: Transmitter 3V-2 ea. AAA 1.5V, Alkaline Remote Receiver 6V -4ea. AA 1.5 Alkaline Operating Frequency: 303.2MHZ FCC ID No.' s: transmitter (K9L3301TX); Canadian ISC ID No.' s: transmitter (XXXXX); receiver -2439-102-760A

#### 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.

#### WARRANTY

All warranty information is listed on the warranty sheet packed with this product. If you did not receive this warranty sheet, please contact Skytech Systems, Inc. at the following: 9230 Conservation Way, Fort Wayne, IN 46809 (888) 672-8929 or (260) 459-1703

#### INDUSTRY CANADA NOTICE (APPLICABLE FOR USE WITHIN CANADA)

This device complies with Canadian RSS-210.

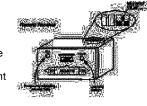
To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website www.hc-sc.gc.ca/rpb.

FOR TECHNICAL SERVICE, CALL:

U.S. INQUIRIES 888/672-8929 or 260/459-1703 Website: skytechsystem.com CANADIAN INQUIRIES 877-472-3923 Skytech 3001 REV 12/01 Page 8 of 8

MANUFACTURED EXCLUSIVELY FOR SKYTECH ILINC



#### 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 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 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.

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