



1001 BE

INSTALLATION AND OPERATING INSTRUCTIONS

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

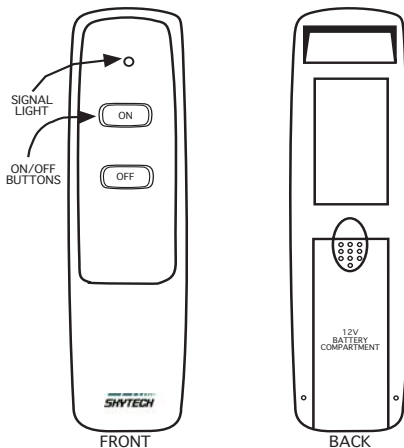
INTRODUCTION

This SKYTECH remote control system was developed to provide safe, reliable, and user-friendly remote control system for gas heating appliances. The system can be operated manually from the transmitter. The system operates on one of 255 security codes that are programmed into the transmitter at the factory.

WARNING

THE SKYTECH 1001BE MUST BE INSTALLED EXACTLY AS OUTLINED IN THESE INSTRUCTIONS. FOLLOW INSTRUCTIONS CAREFULLY DURING INSTALLATION. ANY MODIFICATION OF THE SKYTECH 100BE OR ANY OF ITS COMPONENTS WILL VOID THE WARRANTY AND MAY POSE A FIRE HAZARD.

TRANSMITTER



The transmitter operates on a 12V battery (included) made specifically for remote controls and electronic lighters. Install the 12V battery supplied with the unit into the battery compartment.

It is recommended that ALKALINE batteries always be used for longer battery life and maximum operational performance.

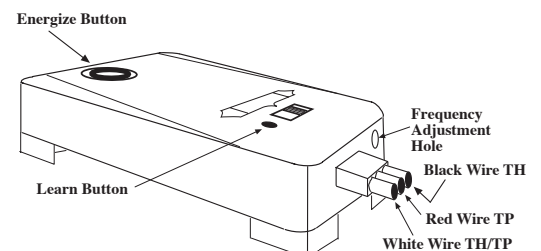
The transmitter has ON and OFF functions that are activated by pressing either button on the face of the transmitter. When a button on the transmitter is pressed, a signal light on the transmitter illuminates briefly to verify that a signal has been sent. Upon initial use, there may be a delay of three seconds before the remote receiver will respond to the transmitter. This is part of the system's design. If the signal light does not illuminate, check the position of the transmitter's battery.

REMOTE RECEIVER

The remote receiver operates on power from the thermopile. It is recommended that the thermopile voltage with the main burner OFF be no less than 450 millivolts for proper microprocessor performance. **IMPORTANT:** It is essential that proper voltage from the thermopile be maintained 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. 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.**



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 temperature-activated and provides an extra margin of safety when the RECEIVER is operating where ambient temperatures exceed 160⁰ F degrees inside the receiver case.

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

When the ambient temperature at the THERMISTOR, *inside the receiver case*, reaches 160⁰ 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 150⁰ F and 160⁰ F, the user can reactivate the appliance by pushing the ON button on the transmitter. When the ON button is pressed, the THERMISTOR "resets" itself and the fireplace will begin operating again. However, the "beeping" will continue, if the ambient temperature remains between 150⁰ F and 160⁰ F. This "beeping" alerts the user that the RECEIVER should be repositioned so the ambient temperature drops below 150⁰ F.

When the temperature drops below 150⁰ F, the "beeping" will cease, providing the user has "reset" the THERMISTOR by pushing the MODE button to ON to operate the appliance. Allow sufficient time for the receiver to cool below 150⁰ F, and then press ON 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 to 110-120VAC power. Consult gas appliance manufacturer's instructions and wiring schematics for proper placement of all wires.

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 gas valve and remote receiver.

HEARTH MOUNT INSTALLATION

The remote receiver is to be placed on the fireplace hearth or under the fireplace, behind the control access panel due to the connections to the TH, TP, & TH/TP terminals on the gas valve. PROTECTION FROM EXTREME HEAT IS VERY IMPORTANT. Position where the ambient temperature inside the receiver case does not exceed 160⁰ F.

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

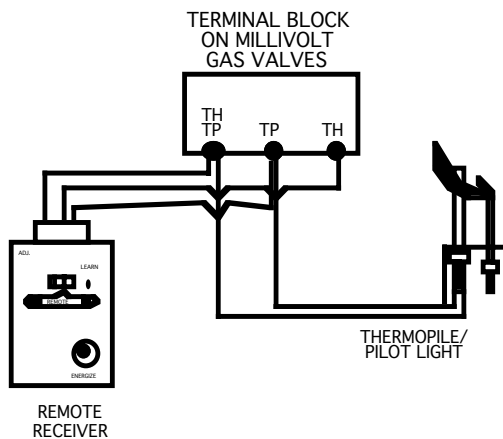
WIRING INSTRUCTIONS

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 and may also damage the remote receiver.

WIRING MILLIVOLT VALVES ONLY (WILL NOT OPERATE ON ELECTRONIC SPARK IGNITION SYSTEMS)

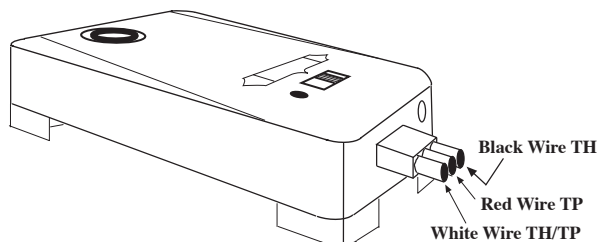
The remote receiver is connected to the TH, TP, & TH/TP terminals on the millivolt gas valve. Connect the (3) 18" gauge stranded wires from the remote receiver to the gas valve. These (3) wires are marked TH (Black Wire), TP (Red Wire), and TH/TP (White Wire).

Note: The RED wire from the thermopile must match up with the RED wire from the 1001BE on the (TP) terminal of the gas valve. The WHITE/YELLOW wire from the thermopile must match up with the WHITE wire from the 10011BE on the (TH/TP) terminal of the gas valve. The reason for this is the 1001BE is polarity based. These changes will make the gas valve and the thermopile match the 1001BE.



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 three (3) wires leading from the receiver to the TH, TP, and TH/TP terminals on the millivolt gas. These (3) wires are marked TH, (Black Wire) TP, (Red Wire) and TH/TP (White Wire)



MILLIVOLT VALVES

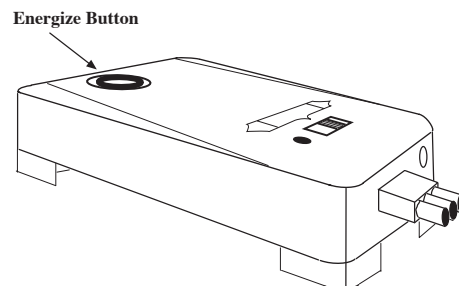
Light your gas appliance following the lighting instructions that came with the appliance. Confirm that the pilot flame is on; it must be in operation for the main gas valve to operate.

Note: Always check for any gas leaks and follow all the instructions from the manufacturer of the appliance on the start up procedures of the appliance.

1. Allow the thermopile to completely heat up, for at least 5 minutes. (Note: If you have a Ventfree product, you may want to allow a longer heat up time, up to 10 minutes).
2. Once the thermopile has heated up, turn the main valve knob from the **PILOT** position to the **ON** position.
3. To activate the power going to the remote control receiver from the thermopile you will need to PUSH and HOLD the **System Energize** button on the receiver for a minimum of 60 seconds before releasing the button. This will start the process of converting millivolts from the thermopile into DC volts required to operate the receiver. This will continue for as long as the thermopile is in operation.
4. Use the transmitter of the remote control to activate the main burner of the appliance.
5. Slide the 3-position button on the remote receiver to the **ON** position. The main gas flame (i.e., the fire) should ignite.
6. Slide the button to **OFF**. The flame should extinguish (the pilot flame will remain on).
7. Slide the button to **REMOTE** (the center position)
8. Press the ON button on the transmitter to turn the system to **ON**. The main gas flame should ignite.
9. Press the OFF button on the transmitter to turn the system to **OFF**. The flame should extinguish (the pilot flame will remain on).

Note: The 1001 BE system will need to be re-energized if the remote receiver has been turned to the manual ON or OFF position. This is done by depressing and holding the SYSTEM ENERGIZER BUTTON for minimum of 60 seconds.

Note: The 1001 BE system will need to be re-energized every time the pilot light is turned to the OFF position or the pilot light goes out for any reason. This is done by depressing and holding the SYSTEM ENERGIZER BUTTON for minimum of 60 seconds.



Note: The Energizer Button must be held in for minimum of 60 seconds

GENERAL INFORMATION

MATCHING SECURITY CODES

Each transmitter can use one of 255 unique security codes. It may be necessary to program the remote receiver to LEARN the security code of the transmitter upon initial use, 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 ON 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.

TROUBLE SHOOTING

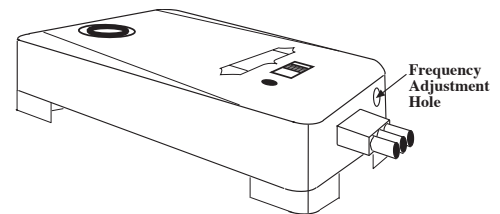
Should you encounter problems with your fireplace system, the problem may be with the fireplace itself or it could be with the SKYTECH remote control. Review the fireplace manufacturer's operation manual to make sure all connections are properly made. Then check the operation of the SKYTECH remote in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

1. Check connections from the receiver to the control valve for good positive connections. (Move the slide switch on the receiver to the ON position if the appliance operates this will confirm that the wiring connections should be good).
2. Check for power from the thermopile to the receiver the voltage with the main burner OFF be no less than 450 millivolts. (Press the learn button on the receiver if there is a beep sound from the receiver this will confirm there is power to the receiver from the thermopile).
3. Be sure the transmitter's batteries are properly installed and that the battery output is 12.0 V or more.
4. Check to make sure the transmitter is communicating with the receiver. If the receiver beeps when the ON button is depressed on the transmitter they are communicating. If the receiver does not beep when the ON or OFF button is depressed on the transmitter, you will need to teach the receiver the code of the transmitter. This is done by holding the LEARN button down on the receiver and at the same time depress the ON or OFF button on the transmitter. A change in the beeping pattern, at the receiver indicates the transmitter's code has been programmed into the receiver.
5. Make sure the transmitter is within the 15'-20' range of the receiver.
6. 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. If the receiver is "enclosed" in a metal surround, this can: cause the RF signal to get lost and not communicate with the receiver or causing the working distance to be shorter than normal. **NOTE:** A receiver located in an area, where the ambient temperature inside the case exceeds 160 °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.
7. 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

- 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).



BATTERY LIFE

Life expectancy of alkaline battery in the SKYTECH 1001BE transmitter should be at least 12 months. Replace the transmitter battery annually. When the 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 battery should be checked in the transmitter. The Transmitter should operate with as little as 9.0 volts of battery power, measuring at the 12.0 volt battery.

SPECIFICATIONS

BATTERIES: Transmitter 12V (A23)

Remote Receiver (NO BATTERIES)

Operating Frequency: 303.875MHZ

FCC ID No.'s: transmitter –K9L1002TX; receiver – K9L3001RX

Canadian ISC ID No.'s: transmitter –2439 102 728; 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

FOR TECHNICAL
SERVICE, CALL:

U.S. INQUIRIES

888/672-8929 or

260/459-1703

Website: skytechsystem.com

CANADIAN INQUIRIES

877/472-3923

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