

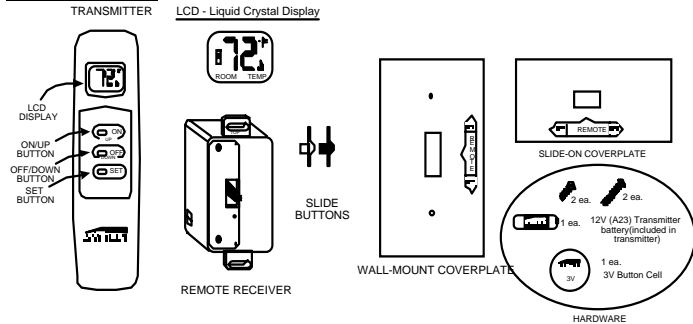
CJY2020

INSTALLATION AND OPERATING INSTRUCTIONS

INTRODUCTION

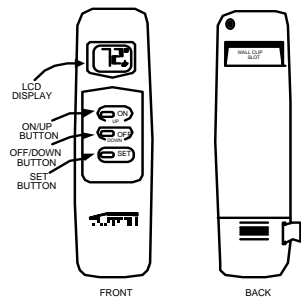
CJY2020 remote control system was developed to provide a safe, reliable and user-friendly remote control system for gas heating appliances. Its battery operation allows the system to operate independently of household current. The system operates on radio frequencies with non-directional signals. CJY2020 operating range is approximately 20 feet. The system operates on one of 255 security codes programmed at the factory.

COMPONENT



THE CJY2020 MUST BE INSTALLED EXACTLY AS OUTLINED IN THESE INSTRUCTIONS COMPLETELY BEFORE ATTEMPTING INSTALLATION. FOLLOW INSTRUCTIONS CAREFULLY DURING INSTALLATION OF THE CJY2020 OR ANY OF ITS COMPONENTS WILL VOID THE WARRANTY AND MAY POSE A FIRE HAZARD

TRANSMITTER



The transmitter operates on a 12V battery (included) and it which powers the LCD screen (Included) made specifically for remote controls and electronic lighters. Before using the transmitter, remove both insulation tabs protecting one end of the battery in the battery compartment.

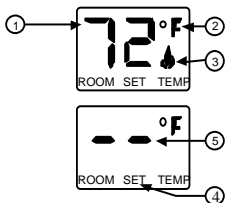
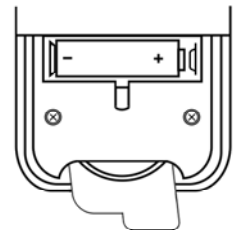
It is recommended that AKALINE batteries always be used for longer battery life and maximum operational performance.

Upon initial use, there may be a delay of five seconds before the remote receiver will respond to the transmitter. This is part of the system's design. If the LCD screen will not come on, check the 12V battery.

BUTTON CELL BATTERY

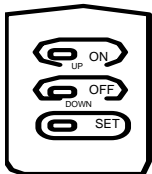
To activate LCD screen, remove tab under the button cell battery.

To remove the button cell battery, insert a small screwdriver into the slot in-between the two screws and slide the button cell battery out of the bottom. (as shown in picture to the right.) To reinstall the battery, slide button cell battery in from the bottom with the positive (+) side up.



1. ROOM TEMP – Current room temperature.
2. F – Degrees Fahrenheit (**C** Indicates degrees Celsius)
3. FLAME ICON – Indicates APPLIANCE IS ON.
4. SET- Indicates transmitter is in thermostat mode.
5. DASHES – Indicate thermostat mode is being disabled. When transmitter is not in the thermostat mode. The word **(SET)** will not appear.

FUNCTIONS



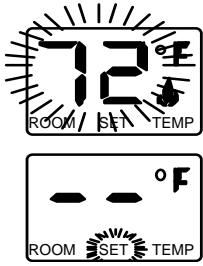
1. The CJY2020 transmitter has **ON**, **OFF**, and **SET** functions that are activated by pressing the buttons on the face of the transmitter.
2. Upon initial use, there may be a delay of five seconds before the remote receiver will respond to the transmitter. This is part of the system's design. If the LCD will not come on, check the 3V-button cell battery.

SETTING MANUAL OPERATION



1. When the **ON** button on the transmitter is pressed a flame icon on the LCD screen will appear when the appliance is **ON**.
2. When the appliance is **OFF** the flame icon will not appear.

SETTING THERMOSTAT OPERATION



1. If the transmitter is in the thermostat mode the word **(SET)** will appear on the LCD screen.
2. When the **SET** button is pressed the temperature digits will begin to flash.
3. While the temperature digits are flashing use the **ON** button to increase the set temperature or use the **OFF** button to decrease the set temperature to your desired temperature.
4. When the desired temperature setting is reached press the **SET** button, again and the word **SET** will appear on the LCD screen and now the transmitter will automatically send an **ON** or **OFF** signal to the receiver.
5. To disengage the thermostat mode push and hold the **SET** button until (2) dashes appear on the LCD screen. When you release the **SET** button this will disengage the thermostat mode and the word **SET** will disappear from the LCD screen.

SETTING °F / °C SCALE

The factory setting for temperature is degrees Fahrenheit (°F). To change this setting to Centigrade (°C), you must press and hold both the **ON** and **OFF** buttons on the transmitter **at the same time** until the LCD displays the change. If you want to convert back, repeat the above procedure.

REMOTE RECEIVER

IMPORTANT: THE REMOTE RECEIVER SHOULD BE POSITIONED WHERE AMBIENT TEMPERATURES DO NOT EXCEED 130 DEGREE F.

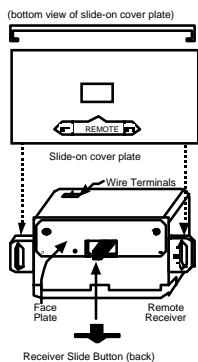
The remote receiver (right) operates on four 1.5V AA size batteries (included). It is recommended that ALKALINE batteries be used for longer battery life and maximum microprocessor performance. **IMPORTANT:** New or fully charged batteries are essential to proper operation of the remote receiver.

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INSTALLATION

NOTE: When the remote receiver is installed as a wall switch, It is recommended that it be installed In a **PLASTIC** switch box. Remote functions may not operate properly if the remote Receiver is installed in a steel switch box.

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 does not exceed 130 degrees F. With the battery compartment on bottom, install the slide-on cover and receiver slide button. Reverse installation of the slide button if it appears off center.

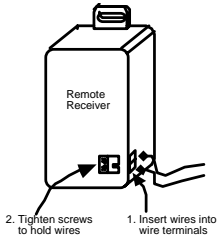
PROTECTION FROM EXTREME HEAT IS VERY IMPORTANT. Like any piece of electronic equipment, the remote receiver should be kept away from temperatures exceeding 130 degrees F. Battery life is also significantly shortened if batteries are exposed to high temperatures.

WIRING INSTRUCTIONS

WARNING

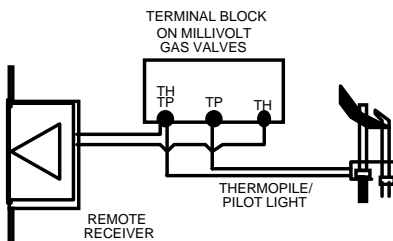
DO NOT CONNECT REMOTE RECEIVER DIRECTLY TO 110-120 VAC POWER. THIS WILL BURN OUT THE REMOTE RECEIVER AND THE ELECTRONIC MODULE. CONSULT GAS APPLIANCE MANUFACTURER'S INSTRUCTIONS AND WIRING SCHEMATICS FOR PROPER PLACEMENT OF ALL WIRES. ALL ELECTRONIC MODULES ARE TO BE WIRED TO MANUFACTURER'S SPECIFICATIONS

THE DIAGRAMS THAT FOLLOW ARE FOR ILLUSTRATION PURPOSES 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.



This remote control system should be installed by a qualified electrician or a gas technician who is familiar with the gas appliance and gas valves that will be operated by this remote. Incorrect wiring connections **WILL** cause damage to the gas valve or electronic module operating the gas appliance and may also damage the remote receiver. Attach the two 18 gauge wires provided to the receiver as shown.

WIRING MILLIVOLT VALVES

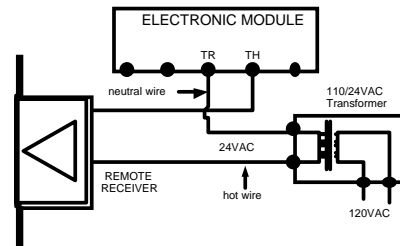


Installer must connect two 18 gauge wires from the remote receiver to the TH and TH/TP terminals on the millivolt gas valve. (It does not matter which receiver wires are connected to the designated terminals listed above.)

Operation of the remote receiver is similar to a wall switch in that both turn the gas valve on and off. The remote receiver's input signals come from the **ON/OFF** buttons on the transmitter. **SETTING ON TIME** press the **ON** and **SET** at same time, into change the take on time, press **ON(OFF)**, you may change take on time at 0---24hour.

WIRING ELECTRONIC SPARK IGNITIONS

Connect the neutral wire from the ELECTRONIC MODULE. Connect terminals on the remote receiver. receiver wire terminal and the TH



24VAC transformer to the TR (transformer) terminal on the the hot wire from the 24VAC transformer to either of the wire Connect another wire (not included) between the other (thermostat) terminal on the ELECTRONIC MODULE

BATTERY LIFE

Life expectancy of alkaline batteries in the CJY2020 should be at least 6 months. Check all batteries 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 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 should operate with as little as 9.0 volts battery power, measuring the 12 volt battery.

TROUBLE SHOOTING

If you encounter problems with your fireplace system, the problem may be with the fireplace itself or it could be with the CJY2020 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:

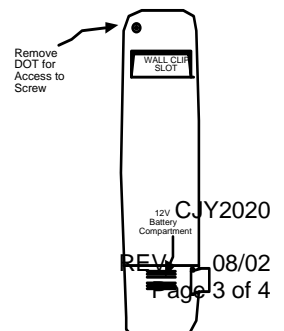
- Make sure the batteries are correctly installed in the RECEIVER. One reversed battery will keep receiver from operating properly.
- Check battery in TRANSMITTER to make sure contacts are touching (+) and (-) ends of battery. Bend metal contacts in for tighter fit.
- Be sure RECEIVER and TRANSMITTER are within 20'-25' operating range.
- Keep RECEIVER from temperatures exceeding 130 degrees F. Battery life shortened when ambient temperatures are above 115 degrees F.
- If RECEIVER is installed in tightly enclosed metal surround, the operating distance will be shortened. Reposition RECEIVER into "free air" space.

FREQUENCY (DISTANCE) ADJUSTMENT PROCEDURE

Due to handling/shipping of remote control, especially the TRANSMITTER, the TRANSMITTER may require a frequency (distance) adjustment to return the normal operating distance of 20'-25'. Follow instructions below to make the adjustment:

Check the battery level, If low, replace all batteries.

1. Remove the black, vinyl dot on the back of the TRANSMITTER.



2. Using a small screwdriver, (eyeglass screwdriver works best) turn the adjustment screw clockwise, no more than 1degree –2 degrees. Just a slight movement of this screw should improve the operating distance. If turning clockwise does not fix the problem, return screw to original position and turn 1 degree- 2 degrees counter-clockwise. This procedure is like turning your radio. Too much adjustment will cause complete loss of frequency match between the transmitter and receiver. You should not have to turn the adjustment screw more than 5 degrees, 1/8 turn, in either direction to improve operating distance.
3. Replace vinyl dot to keep dust out of transmitter.

SPECIFICATIONS

Batteries: 12V (A23)

Batteries: Remote Receiver 6V-4 ea. AA 1.5V

Operating Frequency: 433MHz

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.

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 warranty sheet packed with this product. If you did not receive this warranty sheet please contact Skytech Systems, Inc. at the following.

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