INTRODUCTION
The remote control system can be operated manually from the transmitter. The system operates on radio frequencies (RF) within a 20 foot range. Can be used with DSI, IPI or Standing Pilot systems.

This remote control kit has a hand held transmitter that can be used as a remote on/off or in series with a separate thermostat. The transmitter display shows the current room temperature, low battery indicator and burner/valve operation. Electrical ratings for the receiver are: 110 VAC, 60 Hz.

If pertinent, see additional fireplace wiring diagrams on pages 7 to 9.

INSTALLATION PRECAUTIONS
This remote control kit is tested and safe when installed in accordance with this installation manual. Installation of this kit MUST be done by a qualified service technician. It is the responsibility of the installer to read all instructions before starting installation and to follow these instructions carefully during installation. Modification of the remote control system or any of its components will void the warranty and may cause a fire hazard.

NOTE: The factory installed junction box in the gas fireplace must be wired with 110 VAC before installing this kit. See Installation Instructions section.

CAUTION: All wiring should be done by a qualified electrician and shall be in compliance with local codes and with the National Electric Code ANSI/NFPA No. 70-current (in the United States), or with the current CSA C22.1 Canadian Electric Code (in Canada).

FCC REQUIREMENTS

WARNING: CHANGES OR MODIFICATIONS TO THIS UNIT 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.

Canadian Equipment Requirements
This digital apparatus does not exceed the (Class A/Class B)* limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications. Le présent appareil numerique n’émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numeriques (de la class A/de la class B)* prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

This device complies with RSS-210 of Industry and Science Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
INSTALLATION INSTRUCTIONS

Installing Electrical Service to the Junction Box

WARNING: TURN ELECTRICAL POWER OFF AT THE CIRCUIT BREAKER BEFORE BEGINNING THIS INSTALLATION.

NOTE: Some appliances do not have a cover plate. Instead, there is a hole through which the Romex clamp is attached to the outer wrap.

1. Remove the electrical cover plate from the lower side of the fireplace. Remove the knock-out from the plate and attach the Romex clamp (screws to the outside) (see Figure 1).

2. Feed the electrical service wires through the Romex clamp and secure the wires to the clamp.

3. Using the wire nuts provided, connect the service wires to the junction box. The black wires to the black service wire, the white wires to the white service wire, and the service ground wire to the ground stud of the junction box.

4. Re-attach the cover plate to the outside of the fireplace.

WARNING: LEAVE ELECTRICAL POWER OFF AT THIS TIME. DO NOT RESTORE POWER UNTIL THE REMOTE CONTROL SYSTEM IS COMPLETELY INSTALLED.

REMOTE RECEIVER

Important: The remote receiver should be positioned close to front in right or left corner where ambient temperatures do not exceed 170°F.

The remote receiver is powered by 110-120VAC. It plugs into a standard polarized duplex receptacle.

Locating Receiver and Operating Functions

This remote receiver can be positioned under the firebox in the control compartment of the fireplace if ambient temperatures do not exceed 170°F. This system is designed to remotely operate the gas valve.

RECEIVER WIRING INSTRUCTIONS

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 Standing Pilot Valves

Connect the remote receiver by connecting each of the two wires leading from the remote receiver to either of the two wire TH terminals on the gas valve (see Figure 2). Normally it does not matter which wires go to which terminal.

Figure 2. Wiring Millivolt Valves

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Choosing Remote Control or Thermostatic Operation (with a wall thermostat wired in series)

To operate appliance with a WALL THERMOSTAT only:
The slide switch on the remote receiver must be in the ON position. To operate the system by remote control again, return the slide switch on the remote receiver to the REMOTE position and set the wall thermostat ON or at a high-heat setting.

The remote receiver has a 3-position slide switch: OFF/REMOTE/ON (see Figure 3).

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 transmitter on initial use, see section ‘Matching Security Codes’.

1. With the slide switch in the ON position, the system is on.

2. With the slide switch in the REMOTE position, the system only operates if the remote receiver receives commands from the transmitter.

3. With the slide switch in the OFF position, the system is off.

NOTE: The slide switch should be placed in the OFF position if you will be away from your home for an extended period of time. Placing the switch in the OFF position also functions as a safety “lock out” by turning the system off and rendering the remote receiver inoperative.

TRANSMITTER

Important: Before operating remote control, transmitter and receiver must have matching security codes. See section ‘Matching Security Codes’.

Important: Review Communication-Safety Features’ under ‘Transmitter Safety Features’ section. This safety feature shuts down the fireplace system when a potentially unsafe condition exists.

Important: Review ‘Auto Shutdown’ section. This safety feature shuts down the fireplace after 9 hours of continuous operation, in ON mode only.

Important: New or fully charged batteries are essential for proper operation of the multi-function transmitter. The transmitter operates on 2 AAA-size 1.5V batteries. Use Alkaline batteries for longer battery life and maximum operational performance.

Insert 2 AAA-size 1.5V batteries into the battery compartment on the back of the transmitter. When the batteries are correctly inserted, the screen will display numbers (see Figure 4 for LCD Display Screen).

1. ROOM TEMP - Current room temperature.
2. °F - Degrees Fahrenheit (°C indicates degrees Celsius).
3. FLAME - Indicates burner/valve operational.
4. LOW - Battery power low. Replace batteries within two weeks.
MATCHING SECURITY CODES

It may be necessary to program the remote receiver to the security code of the transmitter upon initial use, if batteries are replaced, or if a replacement transmitter is purchased from your dealer. To program the remote receiver:

1. Set the slide button on the receiver to the REMOTE position.
2. Push the LEARN button (one beep will be heard) on the top of the remote receiver.
3. Then press the ON/OFF button on the transmitter. Several beeps indicate 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 overwrite the old one. 

NOTE: When the LEARN button is depressed, “beeping” sounds should be heard. If no “beeping” is heard check to see that the receiver has 110-120VAC power to it.

If you are unsuccessful in matching the security code on the first attempt, wait 1-2 minutes before trying again.

Setting °F/°C Scale

The factory setting for temperature is degrees Fahrenheit (°F). To change this setting to degrees Centigrade (°C):

1. Remove the battery cover on the back of the transmitter and locate the “setting button” at the top center of battery compartment (see Figure 5).
2. Push setting button and °F will begin flashing on the LCD screen (see Figure 4, Location #2).
3. Push the ON/OFF button on the transmitter to change °F to °C.
4. Push “setting button” on transmitter and Centigrade (°C) degree readings will display on LCD screen.
5. Repeat this process to change back to Fahrenheit (°F) reading. 

NOTE: LCD screen will return to normal state if setting button is not pushed within 15 seconds.

Room Temperature

The room temperature is displayed in either °F or °C.

The transmitter should be kept away from direct sources of heat such as fireplaces, incandescent lighting and direct sunlight. Leaving the transmitter in direct sunlight, for example, will cause it to read the room temperature higher than it actually is.

Fireplace Control - ON/OFF

The flame icon will display on the LCD screen (see Figure 4 Location #3) when the ON/OFF button has been pushed and the fireplace is ON. The flame icon will disappear when the ON/OFF button is pushed again and the fireplace is off.

Low/Battery Indicator

An “X” outlined by a battery (see Figure 4, Location #4) 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.

Child Proof Lockout (CP)

The transmitter contains a “Child Proof” lockout feature that prevents unauthorized use of the remote control. To access the “Child Proof” activation button, remove cover on BACK of transmitter. To activate LOCKOUT:

1. Press and hold in the “setting button” for 5 seconds. The letters CP will display on the LCD screen (see Figure 7). This prevents the activation of fireplace. When ON/OFF button is pressed, the letters CP will display on the LCD screen.

To deactivate LOCKOUT:

1. Press and hold in the “setting button” for 5 seconds. The LCD will display CP until 5 seconds have elapsed, and then the LCD screen will return to its normal state.
TRANSMITTER SAFETY FEATURES

It is recommended that the TRANSMITTERS always be located within a 20 foot operating range of the fireplace, preferably in the same room in which the fireplace system is located. The TRANSMITTER features several safety features that alert the user when the TRANSMITTER is placed outside the 20 foot normal operating range.

Communication-Safety Feature

This 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.

In the COMMUNICATION-SAFETY feature, at all times and in all OPERATING MODES the transmitter sends a signal every fifteen (15) 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 15 minutes, 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 fireplace being controlled by the receiver. The RECEIVER will then emit a series of rapid “beeps”. Then, after 10 rapid “beeps”, the RECEIVER will continue to emit a single “beep” every 4 seconds until a transmitter signal is again received. The intermittent 4 second beeping will go on indefinitely until reset.

To “reset” the RECEIVER and operate the fireplace system:
1. Press the ON/OFF button on the transmitter. The COMMUNICATION-SAFETY operation is overridden and the system will return to normal operation.

Auto Shutdown

This remote control has an Auto Shutdown feature incorporated into its system. When the transmitter is operating the fireplace, it will continuously operate for 9 hours. After 9 hours, the fireplace will shut down. To relight the fireplace:
1. Press the ON/OFF button. The Auto Shutdown signal comes from the transmitter. The transmitter must be positioned within a 20 foot operating range for the Auto Shutdown feature to operate.

SYSTEM CHECK

Millivolt Valves

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

1. Slide the 3-position button on the remote receiver to the ON position. The main gas flame (i.e., the fire) should ignite.
2. Slide the button to OFF. The flame should extinguish (the pilot flame will remain on).
3. Slide the button to REMOTE (the center position), then press the ON/OFF button on the transmitter to change the system to ON. The main gas flame should ignite.
4. Press the ON/OFF button on the transmitter to change the system to OFF. The flame should extinguish (the pilot flame will remain on).

IPI/DSI System

1. 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 is lit, the main gas valve should open and the main gas flame should ignite.
2. Slide the button to OFF. The main gas flame and pilot flame should BOTH extinguish.
3. Slide the button to REMOTE (the center position).
4. Then press the ON/OFF 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.
5. Press the ON/OFF button on the transmitter to OFF. The main gas flame and pilot flame should BOTH extinguish.
GENERAL INFORMATION

Transmitter Wall Bracket
The transmitter can be hung on a wall using the bracket provided. 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.

Battery Life
Life expectancy of the alkaline batteries in the transmitter should be at least 12 months. Check 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) the batteries should be checked.

Specifications
- Batteries: Transmitter - 3V 2 ea.; AAA 1.5V, Alkaline
- Remote - 110-120 VAC; 60Hz
- Operating Frequency: 303.8 MHZ
- FCC ID No.’s: Transmitter - K9L300ITX
  Receiver - K9L3003RX
- Canadian ISC ID No.’s:
  Transmitter - 2439 102 760
  Receiver - 2439 102 760A

Service Parts List

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SERVICE PART NO.</th>
</tr>
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<tbody>
<tr>
<td>TRANSMITTER WALL HOLDER</td>
<td>HTI-16-003</td>
</tr>
<tr>
<td>BATTERIES-TRANSMITTER</td>
<td>HTI-14-003</td>
</tr>
<tr>
<td>RECEIVER</td>
<td>HTI-13-003</td>
</tr>
<tr>
<td>TRANSMITTER (RC-Smart-HNG)</td>
<td>HTI-12-003-HNG</td>
</tr>
<tr>
<td>TRANSMITTER (RC-Smart-HTL)</td>
<td>HTI-12-003-HTL</td>
</tr>
<tr>
<td>HARDWARE PACKAGE</td>
<td>HTI-11-003</td>
</tr>
</tbody>
</table>

Limited Warranty

This REMOTE CONTROL SYSTEM is warranted for 12 months from the date of purchase or installation to the original purchaser to be free from defects in materials and workmanship. Damage to the SYSTEM caused by accident, misuse, abuse, or installation error whether performed by a contractor, service company, or owner, is not covered by this warranty. Seller will not be responsible for labor charges and/or damage incurred in installation, repair, replacement or for incidental or consequential damages. Batteries and any damage caused by them are not covered by this warranty.

Some states, provinces, and nations do not allow exclusion or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply. This warranty gives you specific legal rights. You may have other rights that vary by state, province or nation.
Figure 6. Intermittent Pilot Ignition (IPI) Wiring Diagram

Figure 7. Standing Pilot Ignition Wiring Diagram
Figure 8. Intermittent Pilot Ignition (IPI) Wiring Diagram

Figure 9. Standing Pilot Ignition Wiring Diagram
Remote Control Wiring Diagrams

Figure 10. Remote Control Intermittent Pilot Ignition (IPI) Wiring Diagram

Figure 11. Remote Control Standing Pilot Ignition Wiring Diagram