

All wiring should be done by a qualified electrician. This unit complies with local codes and with the National Electrical Code (NFPA 70) in the United States, or with the national C.S.A. C22.1 Canadian Code in Canada.



## Acumen AC Receiver Modular

### Fireplace Remote Control

#### Installation and Operation Instructions:

The Acumen AC Receiver Modular Remote Control is designed for use with decorative gas fireplace and wall heaters using SIT 852 Nova gas valve.

The AC Receiver Modular Transmitter is an eight-button hand held transmitter, which turn the gas on/off or as a thermostat, adjust the flame height, and turn the blower on/off and adjust its speed to Hi-Medium-Low. The display of the transmitter shows the clock, current room temperature, target temperature, timer setting, on/off status and low battery indicator.

#### Installation Precautions:

The AC Receiver Modular Remote Control is tested safe when installed in accordance with this installation manual. It is your responsibility to read all instruction before starting installation and to follow these instructions carefully during installation.

The AC Receiver Modular Remote Control **MUST** be installed by a qualified service technician.

The AC Receiver Modular Remote Control is carefully engineered and **MUST** be installed only as specified. If you modify it or any of its components, you may possibly cause a fire hazard.

#### FCC Requirements

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 to 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 receiver 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 present appareil numerique n'met pas de bruits radioelectriques depassant 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.

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).

## 1.0 Installation Instruction

### 1.1 Installing the Receiver

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

1. Connect the electrical service wires to the junction box of the fireplace.
2. Place the receiver onto the base pan of the fireplace.
3. Connect the wires labeled "Main Valve" to the Millivolt generator and Millivolt valve (see Fig.1).

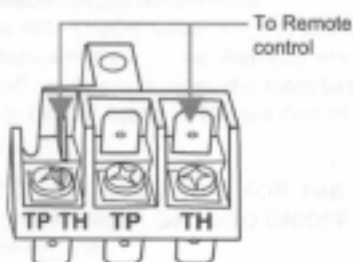


Figure 1

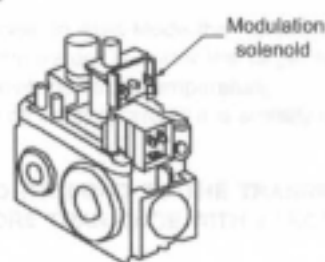


Figure 2

4. Plug the cord from the blower (2-prong male plug) into the black cord (2-hole female plug end) of the receiver.
5. Plug the orange cable labeled "Solenoid" to the modulation solenoid of the gas valve. See Fig. 2.

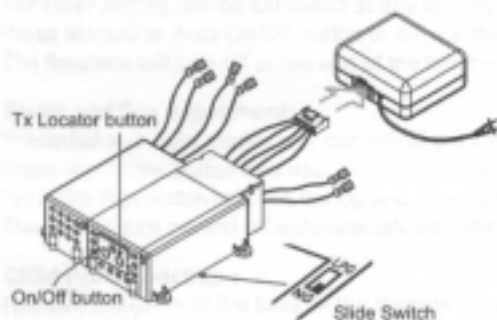


Figure 3

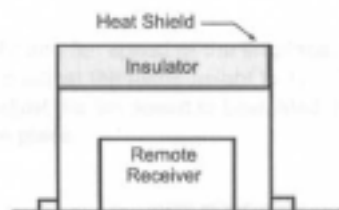


Figure 4

6. Slide the slide switch at the bottom of the Receiver to NG for natural gas and LPG for Liquid petroleum gas. See Fig. 3.
7. Plug the black cord (2-prong male plug end) of the receiver into the junction box.
8. In order to prevent the Remote Receiver from overheating, put a Heat shield (option item) above the Remote Receiver. See Fig. 4.
9. Turn the electrical power "ON" at the circuit breaker.
10. Follow the Lighting Instruction section in the fireplace instruction manual. Be certain that the pilot light is on and the gas control valve is in the "ON" position.

## 2.0 Operation Instructions

The AC Receiver Modular Remote Control has 5 operating modes. They are: Manual, Auto, Timer Flame Adjustment and Fan Adjustment.

You can only operate the Flame Adjustment and Fan modes in Manual or Auto Modes.

Use the Up and Down buttons to set the target temperature between 45°F and 90 °F, or 8 °F and 32 °F.

## 2.1 Operating Modes

### A. Manual Mode:

1. Press the Manual On/Off button once to light the fireplace. Push the button again to turn it off.
2. In Manual mode the Remote Transmitter will not turn the fireplace off even if the room temperature exceeds the target temperature.

**CAUTION: THE REMOTE RECEIVER WILL AUTOMATICALLY TURN OFF THE FIREPLACE AFTER SIX HOURS OF UNINTERRUPTED OPERATION. PRESS AUTO ON/OFF BUTTON ON THE REMOTE TRANSMITTER TO RESET THE REMOTE CONTROL, THEN PRESS AUTO ON/OFF BUTTON AGAIN TO RESUME OPERATION.**

### B. Auto Mode:

1. Set the desired target temperature.
2. Press the Auto On/Off button once to activate the Auto mode. In Auto Mode the Remote Transmitter will automatically turn on the fireplace when the room temperature is below the target temperature and turn off the fireplace when the room temperature is above the target temperature.
3. Press Auto On/Off button or Manual On/Off buttons to turn off the fireplace (if it is already on) and exit Auto Mode.

**WARNING: IT TAKES SOME TIME FOR THE RECEIVER TO RESPOND TO THE TRANSMITTER. DO NOT PRESS THE MANUAL OR AUTO ON/OFF BUTTONS MORE THAN ONCE WITH 2 SECONDS FOR CORRECT OPERATION.**

### C. Timer Mode:

1. You can set the timer to the length of time you want the fireplace to operate (1 to 120 minutes).
2. Press the "TIMER" button once. The Timer display "----" will blink.
3. Press the Up and Down buttons to set the timer. The LCD will display the time chosen.
4. The timer setting can be cancelled at any time by press and hold the "TIMER" button.
5. Press Manual or Auto On/Off button to turn on the fireplace.
6. The fireplace will turn off at the end of the timer setting.

### D. Flame and Fan Adjustment:

1. In Manual and Auto modes you can adjust the flame height and fan speed of the fireplace.
2. Press the Flame button and use the Up and down arrow to adjust the flame height to 1, 2, 3 and 4.
3. Press the Fan button and use the Up and Down arrow to adjust the fan speed to Low, Med, High or off.
4. The fan will turn on and off automatically with the fireplace place.

### E. Child-Proof Function :

1. Remove the cover at the back of the Remote Transmitter to expose the CHILD-PROOF switch.
2. Slide the CHILD-PROOF switch to position marked C/P to activate the CHILD-PROOF function. "Child-Proof" will appear on the LCD. See Fig 6.
3. In CHILD-PROOF the Remote Transmitter will not operate the Remote Receiver until the "child-proof" code is used or the switch is returned to the other position.
4. Press the Up and Down buttons in the following sequence, Up-Down-Down-Up-Down, within 2 seconds button function will be temporarily restored, "Child-Proof" will disappear from the LCD.
5. If no button is pressed within 2 minutes, the Remote Transmitter will return to Child-Proof function and "Child-Proof" will reappear on the LCD until the Child-Proof switch is slide back to the other position.

### F. Settings :

1. Press and hold clock button for about 2 seconds.
2. The hour display will flash. Use the Up and Down buttons to set the hour.
3. Press the clock button again and the minute display will flash. Use the Up and Down buttons to set the minutes.
4. Press the clock button again and the °F or °C display will flash. Use the Up and Down button to select the Remote Transmitter to display temperature in °F or °C.
5. Press the clock button again to exit setting.

**G. Batteries**

1. The Remote Transmitter uses fresh AAA NI-MH charge batteries. Replace these batteries at least every 6 months or when the Low battery indicator on the LCD is on, or the batteries can store in the charger for a long period without any discharge.
2. After you take out the batteries, wait for at least 1 minute before putting fresh batteries into the Remote Transmitter.
3. Can be used for rechargeable Ni-MH batteries only.

**WARNING: THE REMOTE TRANSMITTER WILL AUTOMATICALLY SWITCH OFF THE FIREPLACE WHEN THE BATTERIES IN THE REMOTE TRANSMITTER ARE LOW.**

**H. EON Charger**

EON Charger can charge 3 rechargeable Ni-MH AAA batteries at a time. Charger can automatically measure charging status of batteries. The power of the charger will turn off when the fully charged. The batteries can store in the charger for a long period without any discharge.

**Notes and Warnings:**

- 1 The charger uses 120V AC as input voltage.
- 2 EON Charger can be used for rechargeable Ni-MH batteries only. Batteries will be damaged if they are other type batteries.
- 3 Never try to charge the non-rechargeable batteries, as it will cause explosion.
- 4 Do not mix new and old batteries. Non-proper operation will cause explosion, electric shock or damage of the batteries and charger.
- 5 For 3XAAA batteries charging, make sure install the rechargeable batteries into the transmitter first before put them into the charger.
- 6 LED of the charger turn on in red during charging; LED turn to dark when the charging transform into a tiny stream; LED turn off when full charged.
- 7 Disconnect the plug of the charger from the outlet after charging and do not pull the wire of the plug directly.

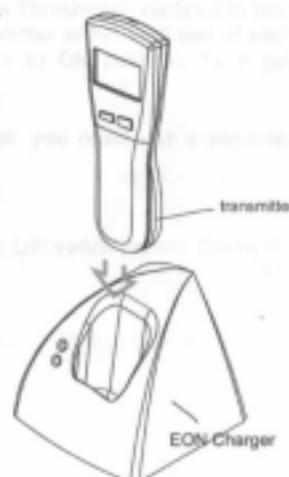


Figure 5

**I. Transmitter Location Function**

Acumen's Remove Control's location function can help user to find the Remove Transmitter easily. Turn on the Transmitter Location function by pressing the "Tx Locator" button on the Remove Receiver, and then transmitter will beep continuously (Two short and one long beep). Press any button on the Remove Transmitter to turn it off. See Fig. 3.

**3.0 IMPORTANT SAFETY FEATURE:**

You can set a private code into your system to prevent accidental operation by another transmitter nearby. See Fig.6.

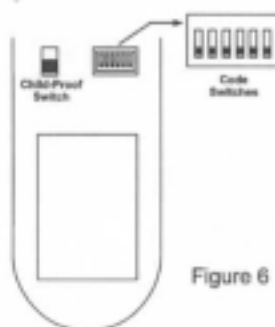


Figure 6

**3.1 Coding Instructions:**

1. Remove the cover on the back of the Remote Transmitter to expose the code switches. Slide the code switches to you choice of ON or OFF positions. **FACTORY SETTING IS ALL "OFF"**.
2. Remove power from the Remote Receiver by unplugging the power cord or power off at the circuit breaker.
3. Take the Remote Transmitter close to the fireplace or the Remote Receiver (less than 2-10 feet from the fireplace or Remote Receiver is recommended.)
4. Powering-up the Remote Receiver.
5. Install 3 rechargeable Ni-MH AAA batteries into the Remote Transmitter.
6. Press a button on the Remote Transmitter. The Remote Receiver will produce a 'beep' sound when it receives the code from the Remote Transmitter.
7. If you do not hear a 'beep' sound from the Remote Receiver, removes batteries from the Remote Transmitter and power from the Remote Receiver. Wait for 1 minute and repeat step 3 to 6.
8. Replace the cover of the Remote Transmitter and the Receiver. The system is now ready to operate.
9. If you desire to operate multiple Remote Receivers with the one Remote Transmitter, continue to hold the button on the Remote Transmitter as you bring the Remote Transmitter within 2-10 feet of each Remote Receiver then slide the switch on the Remote Receivers to ON position. Each will acknowledge receipt of coding with a beep.

**Caution: When installing more than one remote control within 30 feet, you must use a separate coding for each remote control.**

1. Follow the set-up procedure for remote control number one as described.
2. Turn receiver number one to OFF position.
3. Before installing batteries into remote transmitter number two, change the DIP switch pattern. Follow the set-up procedure for remote control number two.
4. Return all receivers to remote position to ensure proper operation.

The user is advised that this device is a Class B digital device. It must be installed only as permitted in the user manual and must be used in accordance with the instructions.

This user manual contains information that is necessary for the safe and proper use of the equipment. It is the responsibility of the user to read this manual and to follow the instructions. The user is advised that the equipment is not to be used in a manner that could cause interference with other equipment. The user is also advised that the equipment is not to be used in a manner that could cause damage to the equipment or to other property.

- Read and understand the instructions.
- Follow the operation manual for equipment and its use.
- Connect the equipment to a power source as instructed.
- Connect the antenna or other accessories as instructed.

**Customer Equipment Requirements**

If you wish to use the equipment, you must have a power source that is capable of providing the power required for the equipment. The power source must be a standard AC power source. The equipment is not to be used in a manner that could cause interference with other equipment. The user is also advised that the equipment is not to be used in a manner that could cause damage to the equipment or to other property.

**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.**

**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.**

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