

# OPERATING INSTRUCTIONS PROPANE GAS LEAK DETECTOR

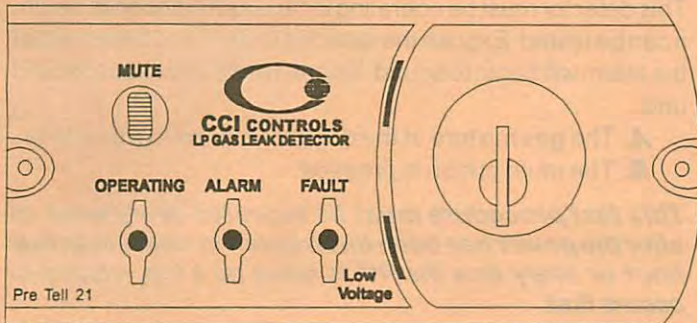
## MODEL 7770 *for Recreational Vehicles*

### INSTRUCTIONS

#### *Model 7770 Gas Leak Detector*



## CCI CONTROLS



When mixed with air, the gas becomes only marginally heavier than air and will expand outward. If a gas burner is left on, the area around the burner, range, and adjoining counter space will be combustible and can cause injury and damage if ignited. This condition will exist for an extended time period and eventually the gas will reach the detector's location and be detected. **This detector only indicates the presence of propane gas at its sensor. Combustible levels of propane gas may be present in other areas.**

**This detector is intended for the detection of propane gas ONLY.** It has not been tested to detect any other gas. However, other volatile gases (nuisance gases), most of them flammable in various concentrations, may cause the detector to alarm. Some products that may cause the detector to alarm are alcohol, liquor, kerosene, gasoline, deodorants, colognes, propellants used in spray cans and cleaning solvents. In some cases vapors from the glues and adhesives used in the manufacture of new RVs may also cause the detector to alarm for several months after the vehicle's date of manufacture. If you determine that the detector has false alarmed because of the above mentioned nuisance gases, reset the detector and air out the vehicle with fresh outside air. Take these precautions to be sure one of these nuisances has not masked an actual gas alarm condition.

When installed in an RV, the detector is powered by your RV battery and/or your converter. This detector draws less current than one instrument panel lamp. Your detector will operate to detect gas until your battery is drained down to 8.5 volts. Your detector must be supplied with a voltage higher than 8.5 volts, for it to operate properly. When your battery voltage is reduced below 8.5 volts, your detector's orange fault LED will light. If the power source (battery and/or converter) is disconnected, or if the power is otherwise interrupted, the detector will not operate.

Your gas leak detector has a self-check circuit which runs at all times while the detector is powered. In the event that the circuitry fails, a failure alarm will sound and the operating indicator will cease to light.

### **HOW TO OPERATE:**

Your gas leak detector is operating at all times when it is connected to its power source. This detector will only operate when supplied with the stated operating voltage. This detector is a safety device. It must not be connected in such a way as to allow it to be switched off by the use of a wall switch or similar device, or to become disconnected from its power supply due to the use of a GFCI protected circuit. When the coach is equipped with an optional master cutoff switch for storage only, the detector will be turned off when this switch is turned **OFF**. This is acceptable as the coach is not to be used with the optional master cutoff switch in the off position. When the coach is powered or turned **ON** by the master cutoff switch, the detector's green operating LED will light. After 60 seconds, the detector will begin monitoring the environment for combustible vapors. The propane you use to cook, refrigerate, and heat with is combustible. Should a leak occur, when the gas reaches the detector in sufficient concentration, your detector will produce a pulsating alarm sound and the RED alarm LED will light. This alarm will continue to sound until the gas has dissipated or until the mute button is pressed. **When the alarm sounds, open all doors and major windows to air out the area, and turn the gas off at the tank. Do not re-enter the affected area until the alarm stops sounding. If the alarm sounds a second time after the gas is turned back on, leave the gas off and have a qualified Gas Dealer or RV Service Center make the necessary repairs.** The mute button only stops the alarm from sounding for 60 seconds. The alarm will recur if gas is still present.

### **ABOUT YOUR GAS DETECTOR:**

It is important to be aware of the difference between a gas leak versus gas escaping from an unlit, open burner. Pure propane vapors from a leaking pipe or gas fitting are heavier than air and will build up their heaviest concentration at the leak and float down until they mix with air. Gas from open burners is intentionally mixed with air to induce burning and will dissipate into the air.

**Call (800) 521-5228**  
**if you have any questions**  
**about your Gas Leak Detector.**

**Also see: *Most common causes of apparent malfunction on the other side.***



# TESTING & TROUBLESHOOTING INSTRUCTIONS - MODEL 7770

## Propane Gas Leak Detector for Recreational Vehicles

### **MOST COMMON CAUSES OF APPARENT MALFUNCTION:**

1. **New Coach Odor:** The glues and other materials used in manufacturing the coach produce vapors which may be detected when the coach is closed up on a warm day. **Air out the coach thoroughly.**
2. **Keeps Beeping:** If the Gas Leak Detector appears to beep about once every minute but the gas leak detector's orange fault indicator is not lit, the problem may be a weak battery in a **smoke detector** or a **Carbon Monoxide detector**. These devices produce short beeps that sound similar to the sound of the Gas Leak Detector. These are high pitched tones that bounce off hard surfaces, making their detection very hard to pinpoint. **Replace the battery in the smoke detector and/or the Carbon Monoxide (CO) detector.**
3. **Hair spray triggers the detector:** Most aerosol hair sprays use butane gas as the propellant. Butane and propane have similar characteristics. The detector is doing its job because butane is combustible.
4. **Other Gases:** Other gases which can cause the detector to alarm include the vapors from any fuel, liquor, alcohol, deodorants, colognes, perfumes, wine, adhesives, lacquer, and most cleaning agents.
5. **Fault Mode:** This is a malfunction. The fault indicator is the Orange LED. It will be lit if the battery is low or in the event that the circuitry fails.
6. **Low Voltage:** When voltage drops below 8.5 volts the Orange LED will be illuminated.

After reviewing the above, if the problem still exists, call CCI for assistance.



Underwriters  
Laboratories Inc.  
Listing # 1P74



Tested by CSA  
to UL 1484

### **HOW TO TEST**

**THIS TEST MUST BE PERFORMED BY AN ADULT.**

This detector must be operating for at least 60 seconds before it can be tested. Expose the detector to gas\* and observe that the alarm will begin to sound. The alarm will continue to sound until:

- A. The gas mixture at the detector returns to a safe level.
- B. The mute button is pressed.

***This test procedure must be repeated every week or after the power has been interrupted for more than one hour or every time the RV is taken on a trip, whichever occurs first.***

\* One method of simulating gas is to use a butane lighter (i.e.: BIC™). **DO NOT** rotate the flint wheel. Just press on the gas release button for **five seconds** while pointing the exit nozzle into the **gas sensing area**, as shown in the illustration on the last page.

### **SERVICE**

This detector contains no serviceable parts. Contact CCI Controls if service is required. Contact your dealer for a replacement detector. See your RV Dealer or a qualified Gas Service Center should service be required. If they are not available in your area, call CCI. **DO NOT** discard or resell this detector. Do not open this detector. Warranty voided if case opened.



**CCI CONTROLS**  
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**THIS PRODUCT MADE IN THE UNITED STATES**

### **LIMITED WARRANTY**

The manufacturer warrants the equipment described herein to be free from defects in material and workmanship under normal use and service when installed and used in accordance with all applicable state and local laws and regulations. The manufacturer's sole obligation hereunder shall be limited to repairing or replacing the component or components shown to have been defective at time of shipment or to have become inoperative within the term of this warranty.

THE MANUFACTURER MAKES NO WARRANTY OF MERCHANTABILITY OF THE EQUIPMENT DESCRIBED HEREIN OR OF THE FITNESS OF THE EQUIPMENT FOR ANY PARTICULAR PURPOSE.

This warranty does not cover damage resulting from abuse, misuse, negligence, or accident; nor from problems resulting from failure to comply with all applicable state and local laws and regulations or problems caused, in whole or in part, by alteration or modification to the product. This warranty does not cover transportation to and from service locations, loss of time or use, inconvenience, commercial loss, loss of use, incidental charges or other consequential damages.

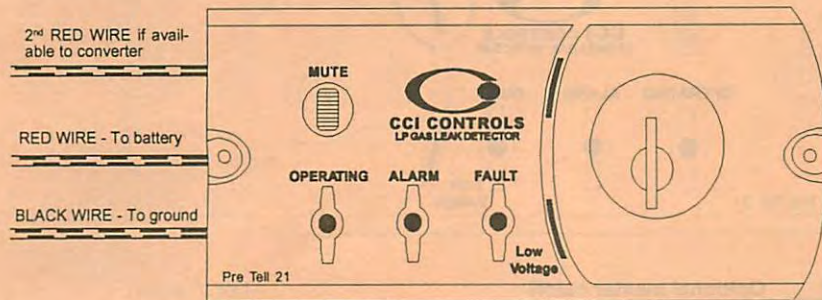
This warranty shall be for the term of two years from and after the date of the first sale by a dealer to the consumer. Upon demand by the manufacturer, the consumer shall produce the original sales contract or receipt to identify the date of purchase.



# INSTALLATION INSTRUCTIONS - MODEL 7770

## Propane Gas Leak Detector for Recreational Vehicles

### WIRING DIAGRAM -7770



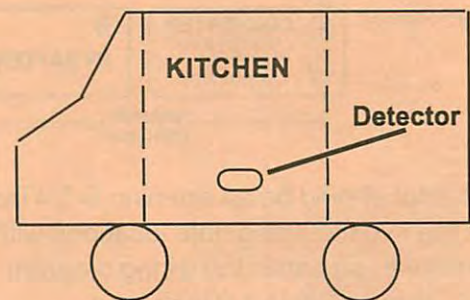
(Not to scale)

If the detector is fused separately, use an appropriate value fuse for the wire size.

### MOUNTING INFORMATION

The recommended location for mounting the detector is as close to gas appliances as practical; e.g. near the stove. The recommended height is within twelve inches from the floor to the horizontal center line of the detector case (*mounting screw location*). **Do not mount in closed areas, such as closets.**

### RECOMMENDED LOCATION



### SPECIFICATIONS

#### Operating Voltage:

Nominal: 12 Volts dc  
Operating Range: 9 Vdc to 16 Vdc

#### Power Consumption:

.58 watts (average)

#### Current Draw:

46 mA (0.046 A) Typical at 12.6 volts DC,  
0.1 Amps maximum

#### Dimensions:

6.25 " (159 mm) wide  
3.875" (98 mm) tall  
1.5" (38 mm) deep

#### Storage Temperature:

-40 to +37.8°C (-40 to 100 °F)

#### Operating Temperature:

4.4 to +37.8 °C (40 to 100 °F)

#### Alarm Threshold:

4000 ppm (20% of combustible level of propane)

#### Operating:

Green LED illuminated

#### Fault:

Audible-1 beep every 30 seconds  
Visual-Orange LED illuminated

#### Alarm:

Audible - 85 dB @ 10 feet  
Visual - Flashing RED Alarm LED

#### Low Voltage:

When voltage drops below 8.5 volts the Orange LED will be illuminated.

#### Mute Feature:

Silences the alarm and resets the detector for 60 seconds.

### INSTALLATION NOTES

The detector will detect gas from both the front and rear side of its case. If the unit is mounted in such a way that air cannot flow freely through the hole on the rear of the case, the unit will not detect gas from behind.

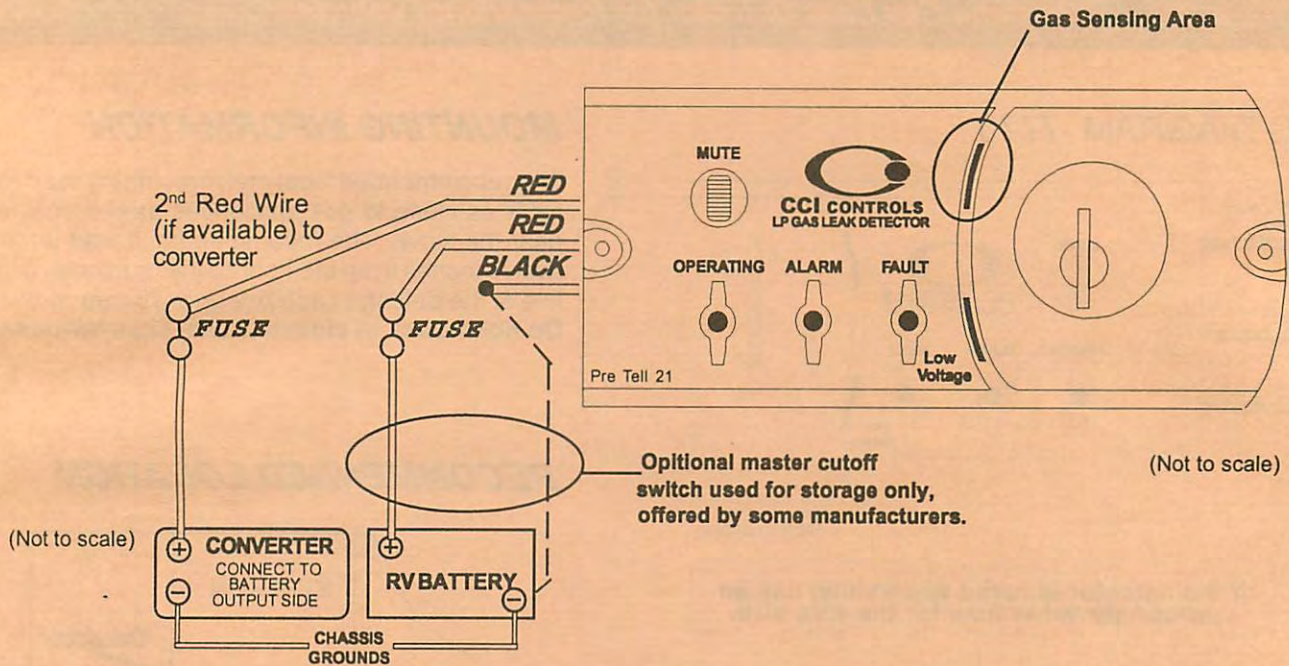
This gas leak detector is a safety device. It must not be connected in such a way as to allow it to be switched off by the use of a wall switch or similar device or to become disconnected from its power supply due to the use of a GFCI protected circuit.

When the coach is equipped with an optional master cutoff switch for storage only, the detector will be turned off when this switch is turned **OFF**. This is acceptable as the coach is not to be used with the optional master cutoff switch in the off position.

Do not cover or paint over the detector, or allow the detector to be obstructed. It may not detect propane gas if obstructed. Exposure of this unit to an intense electromagnetic field may produce unpredictable operation. For example, a radio transmitter in close proximity to the detector may cause the detector to malfunction when the transmitter is transmitting.



# TYPICAL INSTALLATION:



The cutout should be an opening 5-3/4 inch long by 2-1/4 inch high. Place the detector in the opening and mark the two mounting hole locations with an ice pick or any other sharp object. Remove the detector and connect it as shown in the wiring diagram. Install the detector to the opening and secure it with two number 4 or 5 screws 3/8 to 1/2 inch long.

