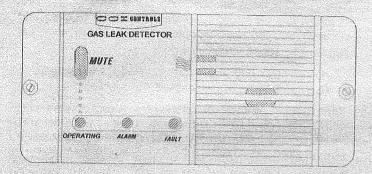
## OPERATING INSTRUCTIONS PROPANE GAS LEAK DETECTOR MODEL 7770 for Recreational Vehicles

### INSTRUCTIONS

Model 7770 Gas Leak Detector



### HOW TO OPERATE:

Your gas leak detector is operating at all times when it is connected to its power source. This detector is a safety device, and must not be connected in such a way as to allow it to be switched off or become disconnected from its power supply. When the coach is equipped with a master cutoff switch, the detector will be turned off when this switch is turned OFF. When the detector is powered or turned ON by the master cutoff switch, the 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 indicator 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 reenter the effected 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 to the source of the gas leak. The mute button only stops the alarm from sounding for 60 seconds. The alarm will reoccur if gas is still present. This detector only indicates the presence of Propane Gas at the sensor. Propane Gas may be present in other areas. This device is intended for detection of Propane Gas leaks ONLY.

### 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 gas from a leaking pipe or gas fitting is heavier than air and will build up its heaviest concentration at floor level first. Gas from open burners is intentionally mixed with air to induce burning and will dissipate into the air. The primary purpose of this detector is to detect gas leaks, thus it is located near the floor for optimum performance.

### IMPORTANT

- 1. Cut the instructions from the supplied extended warranty return card and tack, paste, or tape them to the inside of a cupboard door for easy access.
- 2. Fill in your warranty card and mail it in today. Also fill in the date below.

The date the warranty card was mailed

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

Also see; Most common cause of apparent malfunction on the other side.

The propane from open burners is mixed with air (oxygen) so that it will burn. When mixed with air, the gas becomes only marginally heavier than air and may not sink to the floor. If a burner is left on, the area around the burner, range, and adjoining counter space will be combustible and will cause injury and damage if ignited. This condition may exist for an extended time period before the gas can reach the detector's location and be detected. This detector only indicates the presence of LP gas at the sensor. LP gas may be present in other areas.

Other combustibles which may be detected by the detector include alcohol, liquor, deodorants, colognes, perfumes, wine, adhesives, lacquer, kerosene, gasoline, glues, most all cleaning agents and the propellants of aerosol cans. Most are lighter than air in their vapor state and will only be detected when the area is closed up. Glues and adhesives may exhaust hydrocarbon vapors for months after they are applied. They are easily activated by high temperatures. If you close up a RV coach on a hot day, the chemicals used in its construction may be detected for months after the coach was manufactured.

When installed in an RV, the detector is powered by your RV battery and/or your converter. This detector draws less current than drawn by one instrument panel lamp. Your detector will operate to detect gas until your battery is drained down to 8.5 volts. (Your low battery condition is 10.4 volts). When your battery is reduced to 8.5 volts, your detector's orange fault indicator 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 is intended for the detection of propane gas only. It has not been tested to detect any other gas.

Your Gas 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.

### **TESTING & TROUBLESHOOTING INSTRUCTIONS - MODEL 7770**

Propane Gas Leak Detector for Recreational Vehicles

### MOST COMMON CAUSES OF APPARENT MALFUNCTION:

- 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: The gas detector appears to beep about once every minute. The problem is a weak battery in the smoke detector which causes the smoke detector to produce short beeps which sound similar to the sound of the Gas Leak Detector. This is a high pitch tone and bounces off the walls, making its location very hard to pinpoint. Replace the battery in the smoke detector.
- 3. Hair spray triggers the detector: Most aerosol hair sprays use butane gas as the propellent. Butane and propane have similar characteristics. The detector is doing its job because butane is combustible.
- 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: If the fault indicator is lit, it is the failure alarm and will occur if the battery is low or in the event that the circuitry fails.

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







Listing # 1P74

Tested to UL 1484 LR 85089-7 5275-106

### HOW TO TEST

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 should be repeated every week; or if power has been interrupted for more than one hour; or every time the RV is taken on a trip, whichever occurs first.

THIS TEST MUST BE PERFORMED BY AN ADULT.

\* 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 indicated above.

### SERVICE

This detector contains no user 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 familiar with this product, have them call CCI for assistance. If service is not available in your area, call CCI, you will be given a return authorization number if the detector is under warranty. DO NOT discard this detector. Send it to CCI Controls at the address below. DO NOT sell detector if used. To remove the detector, first disconnect the power source. Then remove the two mounting screws which hold the detector to the wall. Pull the detector forward and disconnect the wires connecting the detector. Tape over the wires left in the wall to prevent them from shorting. Do not open the detector - this will void the warranty. Mail the detector to the address on the back of the detector. Allow 10 days for service and return. Be sure to include your return address, a daytime phone number (with area code) with the detector. You must place your return authorization number on the outside of the package.

# CCICONTROLS

5052 Cecelia Street South Gate, CA 90280-3511 800 521 - 5228 FAX 213-560-1136

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.

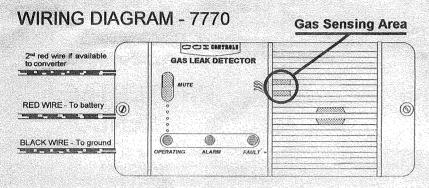
THE MANUFACTURER MAKES NO WARRANTY OF MERCHANTABILITY OF THE EQUIPMENT DESCRIBED HEREIN OR OF THE FITNESS OF THE EQUIPMENT FOR ANY PARTICULAR PURPOSE.

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 one year 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



Red line(s) with not less than a 3 amp fuse.

#### CONNECTIONS:

For RV use on batteries. This installation requires a dedicated line for the positive supply. Connect the red wire to the plus or positive side of the RV battery. Connect only at the battery, DO NOT connect to a service line. Connect the black wire to ground or common side of the supply. If a second red wire is available, connect it to a second supply such as the auxiliary battery or the battery side of a converter.

For RV use on a converter. Connect the red wire to the plus or positive side of the converter's BATTERY output terminal. Connect the black wire to ground or common side of the converter.

For AC or DC: Connect the black and a red wire to any AC source of 12 to 24 volts. The red wire is positive if connected to 12 to 14 volts DC.

### SPECIFICATIONS

Power Supply:

12 - 24 Volts DC or AC (50-60 Hz)

**Power Consumption:** 

0.441 watts (average)

Current Draw:

Dimensions:

35 mA (0.035 A) Typical at 12.6 volts DC 6.25 " wide

3.875" tall 1.5" depth

**Operating Temperature:** 

-35 to +66 °C (-31 to 150 °F)

**Agency Listings:** 

CSA / CSFM / UL 1484 for Recreational Vehicles 4000 ppm (20% of combustible level of propane)

Alarm Threshold: Alarm Output:

Audible - 85 dB @ 10 feet

Visual - Flashing RED Alarm LED

Mute Feature:

Silences the alarm and resets the detector

for 60 seconds.

Case Construction:

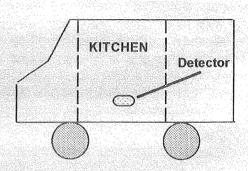
ABS Plastic - Meets UL 94-V0

This unit will detect gas only when supplied with the stated operating voltage.

### **MOUNTING INFORMATION**

The recommended location for mounting is as close to gas appliances as possible; e.g. near the heater or stove. The recommended height is 4 inches from the floor to the horizontal center line of the detector case (mounting screw location). Do not mount in the floor, in the outside walls of the RV, nor in enclosed areas, such as closets.

### RECOMMENDED LOCATION



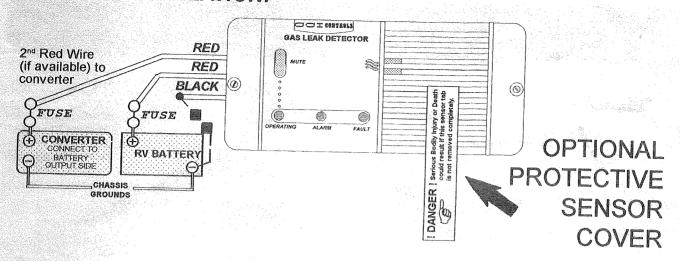
### INSTALLATION NOTES

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 slots on the rear edge of the case, the unit will not work correctly.

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 or become disconnected from its power supply.

Do not cover or allow the detector to be obstructed. It may not detect propane gas if obstructed. Exposure of this detector 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. Then 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 flat head wood screws 3/8 to ½ inch long.

If the detector is equipped with a Protective Sensor Cover, the tab must be removed before the detector can operate as intended. Simply grasp and pull in a continuous downward motion. Verify that the complete red target (a circle) is visible after tab is removed.

