

# SpreadNet®

## Model SN972-RAIL RF Footrail Transmitter Installation Instructions

The SpreadNet® Model SN972-RAIL Footrail Transmitter is a foot actuated alarm device, incorporating a wireless RF transmitter.

Using Spread Spectrum technology, the SN972-RAIL provides higher power, lower noise levels, less interference, and longer range than obtainable with most single-frequency RF transmitters, resulting in increased reliability.

The SN972-RAIL has a red flag showing at the opening near the key reset switch to indicate that an alarm has been activated. To reset the alarm flag, insert the key and rotate 1/4 turn clockwise. (Refer to Figure 1 for location of Reset Switch and Alarm Indicator Flag.)

### FEATURES

- Spread Spectrum Technology
- Simple Installation
- Cover Tamper Switch
- Latching Alarm Indicator
- Programmable Check-In Rate
- EEPROM Memory
- Lithium Batteries (Included)
- Up To 5-year Battery Life

### MOUNTING LOCATION

The SN972-RAIL Footrail Transmitter is normally mounted on the floor. (See Figure 1 below.) Do NOT mount the transmitter near screens or large metal objects. When mounting the transmitter, select a location and temporarily mount the unit while verifying reception of the RF signal. (See "Scan for One Transmitter" in the SN900-PROG RF Programming Manual P/N 5-051-136-00.)

**Warning:** Do NOT use the antenna to remove the board. Handling or bending the antenna could damage the transmitter or reduce range.

### SETUP AND PROGRAMMING

The SN972-RAIL comes pre-wired from the factory and no additional setup is required. Figure 2 below, shows the location of the tamper switch (S3), the antenna, and the programming connector (J1).

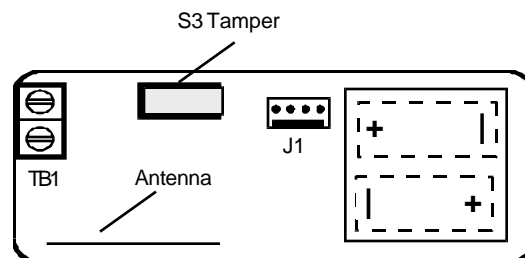


Figure 2 - PCB Layout

Prior to programming and testing the transmitter, activate the batteries. This is accomplished by removing the Battery Activator Tab, as shown in Figure 3.

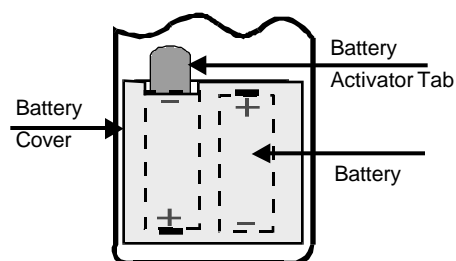


Figure 3 - Battery Tab Location

To program the SN972-RAIL Footrail Transmitter, refer to the SN 900-PROG Programming Manual (P/N 5-051-136-00).

### TRANSMITTER DEVICE ID

After the SN972-RAIL has been programmed and tested, fill out the Transmitter Device ID Label (included in the installation package) and mount the label inside the unit, under the transmitter PCB.

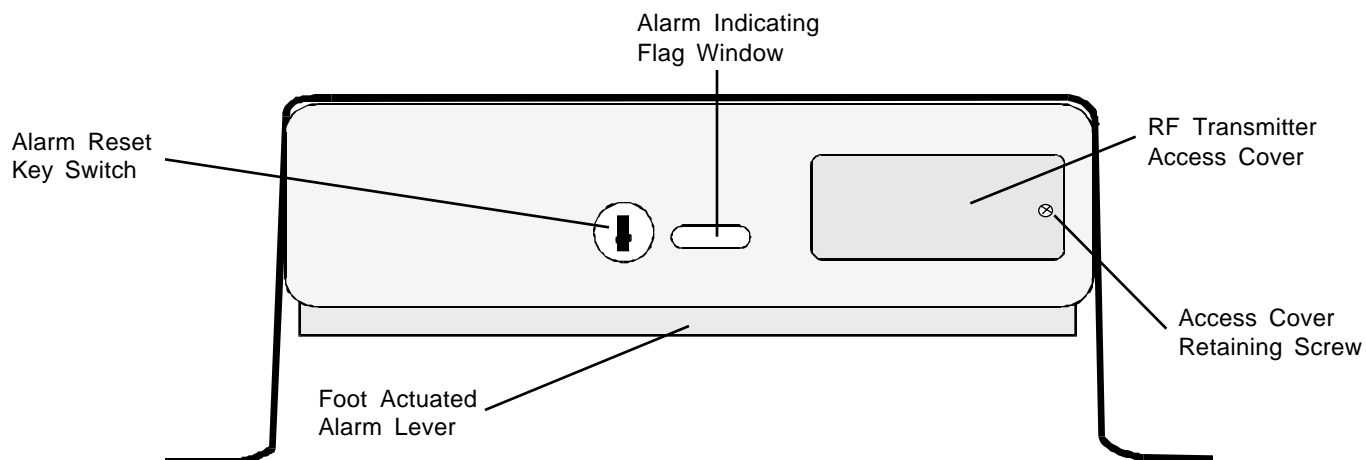


Figure 1 - Transmitter Housing

## TRANSMITTER DEVICE ID (continued)

The following procedure is recommended for mounting the label:

1. Open the transmitter access door by removing the retaining screw.
2. Remove the PCB from the housing.
3. Remove the adhesive backing from the label and place the label on the transmitter housing door.
4. Replace the PCB and close the access door.

A sample of a completed Transmitter Device ID Label is shown below:

P. CODE	0253
CHANNEL	2
ZONE	01
DEVICE	01
CHECK-IN	30
BATTERY	4/27/93

P. CODE - The System Property Code.  
CHANNEL - Spread Spectrum selected by the system.

ZONE - Control panel zone number associated with the transmitter.

DEVICE - The number of the device associated with the zone.\*

CHECK-IN - Supervisory interval (in seconds)

BATTERY - Date batteries installed

\* For systems using the SN910-RCVI/O, this value must be 1. If additional devices are installed on the same zone, only one device will be supervised. Also, systems having more than one device per zone cannot determine which device generated the alarm, low battery, or supervisory failure.

## FCC NOTICE

The Model SN972-RAIL Footrail Transmitter generates and uses radio frequency energy. If not installed and used in accordance with the manufacturer's instructions, it may cause interference to radio and television reception. The SN972-RAIL Footrail Transmitter has been tested and found to comply with the specifications in Part 15 of FCC Rules for Class B Computing Devices and FCC Part 15 Subpart C, Specifications for Intentional Spread Spectrum Radiators.

If this equipment causes interference to radio or television reception - which can be determined by turning the equipment on and off - the installer is encouraged to correct the interference by one or more of the following measures: 1) Reorient the antenna of the radio/television. 2) Relocate the SN972-RAIL transmitter with respect to the radio/television.

If necessary, the installer should consult an experienced radio/television technician for additional suggestions, or send for the "Interference Handbook" prepared by the Federal Communications Commission. This booklet is available from the U.S. Government Printing Office, Washington D.C., 20402, stock number 004-000-00450-7.

**CAUTION:** C&K does not support field changes or modifications to any of the SpreadNet RF equipment unless they are specifically covered in this manual. All adjustments must be made at the factory under the specific guidelines set forth in our manufacturing processes. Any modification to the equipment could void the user's authority to operate the equipment and render the equipment in violation of FCC Part 15, Subpart C, 15.247.

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.

## SPECIFICATIONS

- **Dimensions:**  
Transmitter and Housing:  
18" W x 4.75" H x 3.25" D  
(45.72 cm x 12.06 cm x 8.25 cm)
- **Input Power:**  
Two 3.6VDC 1/2AA lithium batteries (included)
- **Supervisory Rate:**  
30 - 300 sec (10 sec intervals)  
0 is unsupervised
- **Replace Batteries only with**  
C&K Model # SN31L-BAT  
SAFT Model # LS3, LS14250  
Tadiran Model # TL-2150 /S
- **Operating Environment:**  
32° to 140° F (0° to 60° C);  
up to 95% relative humidity  
(non-condensing)
- **Operating Frequency:**  
902 - 928 MHz Spread Spectrum
- **RF Emission Standards:**  
**USA:** FCC Part 15  
**CANADA:** Industry Canada
- **Weight:**  
2.4 lb. (1.1 kg)

**NOTE: Batteries should be replaced following a low battery indication or every 5 years, whichever occurs first.**

## Industry Canada Notice

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.

This Class B digital apparatus meets all requirements for the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

**Note:** The contents of this manual have been revised. For your convenience, dashed lines have been added to the margins of the document to show the locations of the changes.