WARNING: Failure to read and carefully follow these instructions may jeopardize subscriber security!

INTRODUCTION: The NNT-RF7 is a Long Range Alarm Radio Transmitter for use on the NearNet Alarm Radio Network (see coverage map below). NearNet processors forward these radio signals to the Central Station via standard communicator techniques. The unit automatically communicates with the network at pre-selected intervals, and the network will generate and report a Communications Failure signal in the event that the network does not receive any of these supervisory test signals over a specified period.

INSTALLATION GUIDELINES

(Complete Installation Instructions Begin on Next Page)

- Mounting locations can **ONLY** be selected based on RF performance, therefore, it is **HIGHLY** recommended that the installer follow the SELECTING A MOUNTING LOCATION section below **BEFORE** any wires are run to the alarm control panel.

- Generally, high locations are best. **DO NOT** mount radio in basement or below grade as unpredictable performance may result.

- Whenever possible, keep the transmitter in a climate controlled environment. Attics may reach extremely high temperatures in summer months. Unheated garages may reach extremely cold temperatures in winter months.

- Avoid locations within 3 feet of large metal objects (air conditioners, metal garage doors, etc.), AC power lines, and fluorescent light fixtures.

- A fair amount of care may be required to mount the unit so as to achieve an optimal RF path. While NearNet does not place restrictions on installers to reach a certain number of receive sites (see map below), it is always best to reach as many sites as possible to ensure reliable performance now and in the future.

- Unlike smoke detectors, motion detectors, etc., these transmitters draw a substantial amount of current (approximately 1 Amp during transmit) and require a "clean" 12VDC power source, free from any AC ripple or "noise". Therefore, follow the instructions for POWER contained herein **EXACTLY!** Power the unit from a battery as shown. DO NOT power from the alarm control panel "AUX" power output or directly from a power supply. **DO NOT** vary from the Wiring Size Chart. Failure to properly power the unit may cause unpredictable performance over time.

SELECTING A MOUNTING LOCATION

- Install the antenna as shown in Section 2 on the reverse side.

- Temporarily connect power to the transmitter from a fully charged 12V (4AH minimum) battery. DO NOT mount the transmitter at this time. Temporarily position the unit in the desired mounting location.

- Follow the MANUAL TEST (Section 4) instruction on the reverse side. Move the unit as required for reliable results. It is best to be received by more than one receive site, however it is acceptable to be received by only one receive site provided that 90% (9 out of 10) of signals sent are received.

NORTH EAST ALARM RADIO NETWORK COVERAGE AREA

Map is not drawn to scale.

⋀ = NEARNET RECEIVING SITE

⚹ = PLANNED SITE
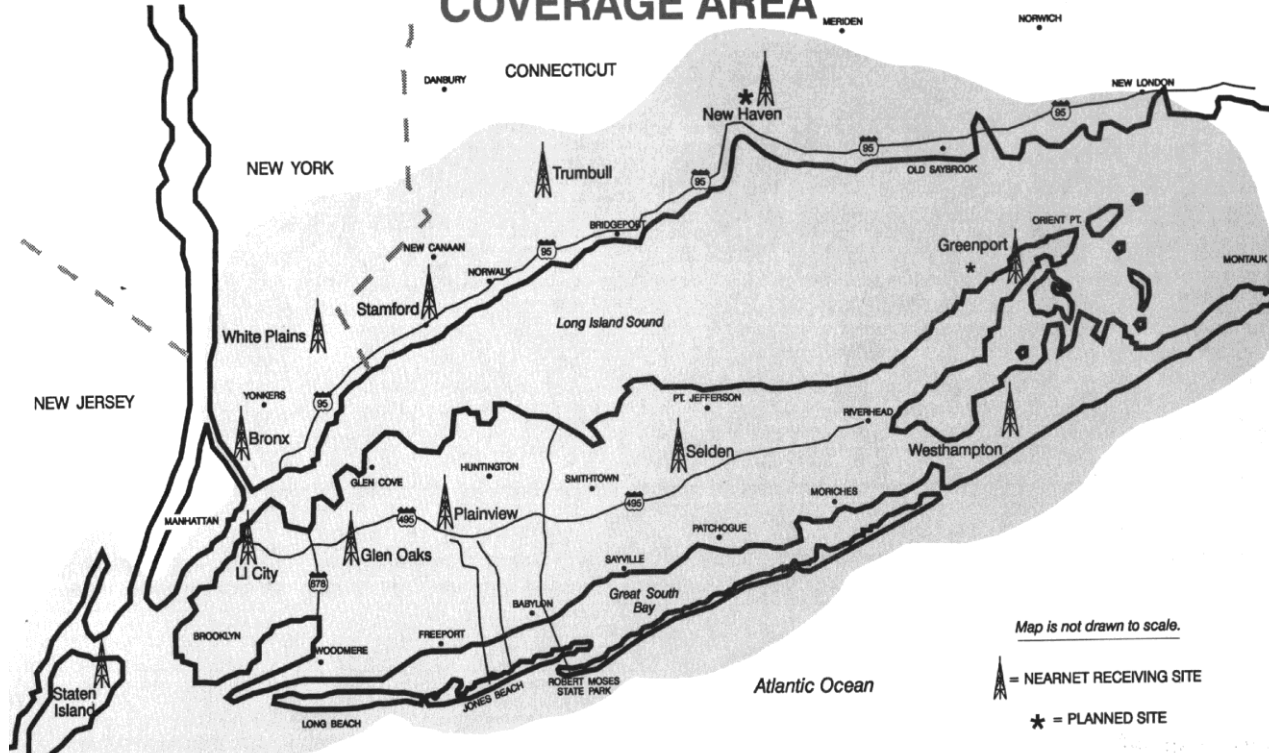
1 COMPLETE & SUBMIT PAPERWORK

- Complete the enclosed data form and fax or email.
- This should be done before installation so a complete end-to-end test can be performed at the time of install.

2 ANTENNA INSTALLATION

- Gently push Antenna BNC male connector onto Subscriber Unit BNC female connector. Twist Antenna BNC bayonet to lock Antenna onto Subscriber Unit.
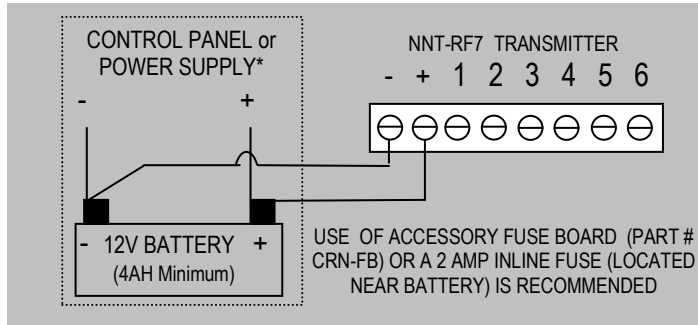
TRANSMITTER - TOP VIEW

ANTENNA JACK
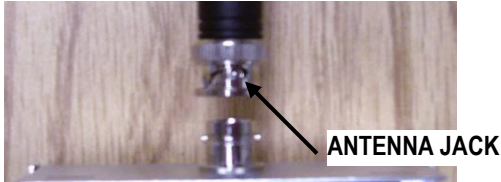
*NEVER POWER UNIT
WITHOUT ANTENNA INSTALLED!*

3 POWER

- Connect 12VDC from battery as shown.

CONTROL PANEL or POWER SUPPLY*

NNT-RF7 TRANSMITTER
- + 1 2 3 4 5 6

- 12V BATTERY +
(4AH Minimum)

USE OF ACCESSORY FUSE BOARD (PART # CRN-FB) OR A 2 AMP INLINE FUSE (LOCATED NEAR BATTERY) IS RECOMMENDED

*WIRE AS SHOWN ABOVE ONLY!
DO NOT POWER FROM "AUX" OUTPUT OR
DIRECTLY FROM POWER SUPPLY!*

| WIRE SIZE CHART		
UP to 10 FEET	10 to 50 FEET	50 to 100 FEET
22 Gauge	18 Gauge	14 Gauge

4 MANUAL TEST

- Send manual test (Code ∅) signals by pressing TEST BUTTON (S1). The LED will light for approximately 1 second each time a signal is transmitted. Call the NearNet Automated Signal Verification System at **(631) 736-7123 (select option 5)** to verify which sites are receiving the signals.

5 SUPERVISORY TIMEOUT

- The radio will send a code 0 every 7 hours, in the event that the network does not receive any of these supervisory tests a communication failure will be sent at interval determined per your data form.

6 INPUT CHANNEL WIRING

- **Input 1** - Choose either **SmartChannel** for Fire and Burg **OR Direct Trigger**
- **Inputs 2** – 6 use direct trigger option only

Power
- + R1 R2 R3 R4 R5 R6

LED

R7

TEST BUTTON
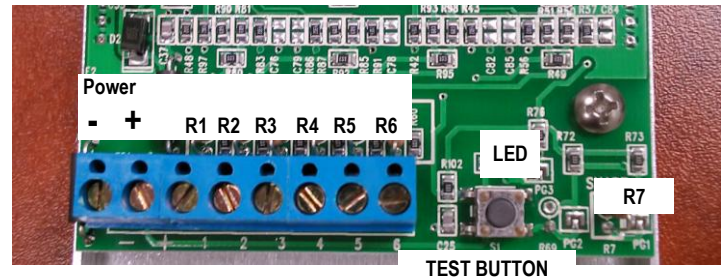
SMARTCHANNEL (Input 1 only)

SmartChannel will analyze Bell output to determine if trigger is Fire or Burg, and has a 7 second integration delay. NOTE: WILL NOT WORK ON CONTROL PANELS WITH BUILD IN SIREN DRIVER, MUST HAVE VOLTAGE OUTPUT

VOLTAGE TRIGGER:
For HONEYWELL, NAPCO, and other Alarm Control Panels with switched "BELL POSITIVE" terminals
WITH POWER REMOVED, **CUT** RESISTOR R7 (Smart) **DO NOT** CUT RESISTOR R1. CONNECT INPUT 1 TO CONTROL PANEL "BELL **+**" – UNIT WILL SEND CODE 7 FOR PULSATING VOLTAGE (Typically FIRE) and CODE 8 FOR STEADY VOLTAGE (Typically BURG)

GROUND TRIGGER:
For DSC and other Alarm Control Panels with switched "BELL NEGATIVE" terminals
WITH POWER REMOVED, **CUT** RESISTOR R7 (Smart) AND RESISTOR R1. CONNECT INPUT 1 TO CONTROL PANEL "BELL -" – UNIT WILL SEND CODE 7 FOR PULSATING GROUND (Typically FIRE) and CODE 8 FOR STEADY GROUND (Typically BURG)

DIRECT TRIGGER (Inputs 1 – 6)

VOLTAGE TRIGGER:
for HONEYWELL and most other Alarm Control Panels with voltage trigger outputs
DO NOT CUT RESISTOR ABOVE CORRESPONDING INPUT. CONNECT CHANNEL TO CONTROL PANEL "BELL +" or OTHER VOLTAGE (+4.5 to 14.5VDC) TRIGGER – UNIT WILL SEND CODE OF INPUT #

GROUND TRIGGER:
for DSC, NAPCO and most other Alarm Control Panels with electronic pull-to-ground trigger outputs
WITH POWER REMOVED, **CUT** RESISTOR ABOVE CORRESPONDING INPUT. CONNECT CHANNEL TO CONTROL PANEL "BELL -" (DSC) or "E-LUG" (NAPCO) OR OTHER PULL-TO-GROUND TRIGGER – UNIT WILL SEND CODE OF INPUT #

- All input channels send 5 signals when triggered, with a random delay between signals. LED will light for approximately 1 second each time a signal is transmitted.

7 VERIFY INSTALLATION

- Confirm each input is triggered by the control panel by calling the NearNet Automated Signal Verification System at **(631) 736-7123 OPTION 5,** and verify which sites are receiving signals. Note: Central station will not receive signals until the Transmitter data form is completed and faxed (see Step 1 above).