

CRN Wireless, LLC.

INSTALLATION INSTRUCTIONS

Tel: (631) 736-7123

99 Mark Tree Rd. Suite 301

NNT-TDT+T FULL DATA WIRELESS SUBSCRIBER UNIT

Fax: (631) 698-7943

Centereach, New York 11720 USA

Automated Signal Verification: (631) 736-7123 (option 5)

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

INTRODUCTION: The NNT-TDT+T is a Full Data (Dial Capture) 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

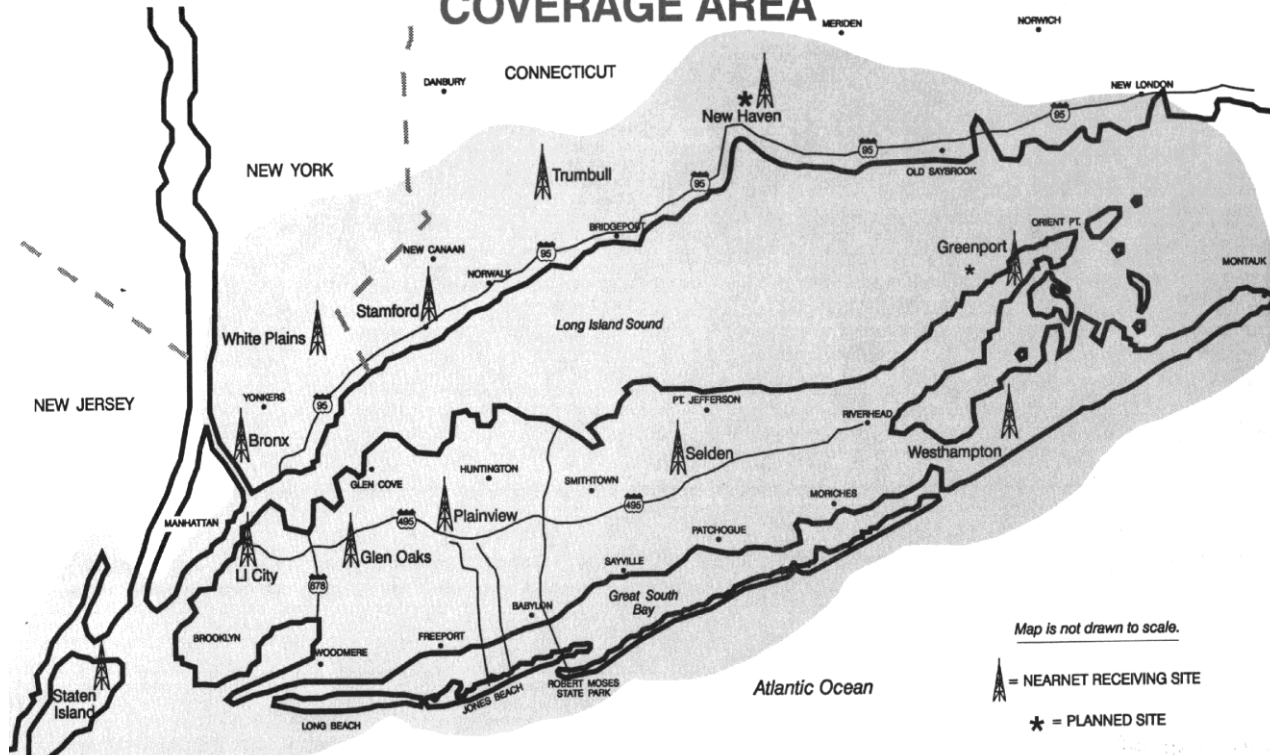
(Complete Installation Instructions Begin on Next Page)

- 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



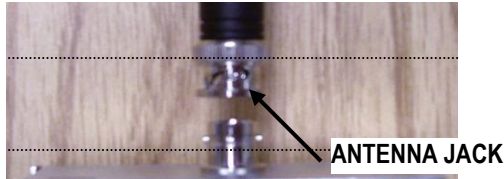
1 COMPLETE & SUBMIT PAPERWORK

- Complete the enclosed data form and fax it to the number shown on the top of the form.
- 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.

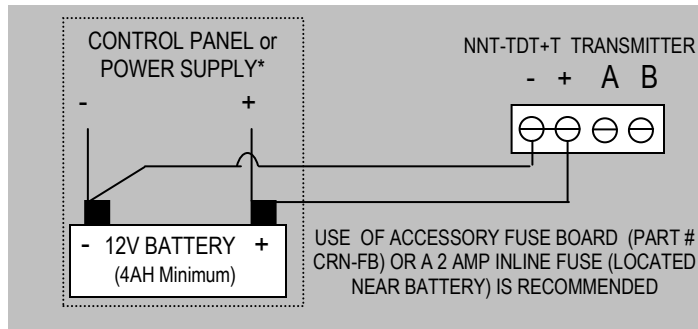
TRANSMITTER - TOP VIEW



NEVER POWER UNIT WITHOUT ANTENNA INSTALLED!

3 POWER

- Connect 12VDC from battery as shown.



**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 Panel Programming

- Panel must be set up to send in Contact ID and/or Pulsed 4/2. Program panel to dial any phone number, at least 7 digits. Enter any account number. Remove dial tone detection from programming if it delays the dialing of the panel. Install device as per diagram 6 below.
- This radio is designed to communicate up to 24 alarm signals at a time to the central stations when no phone lines are present.

6a Wiring Diagram – Radio PRIMARY (NO PHONE LINE)



NEG (-) POS (+)

12 VDC BATTERY

See Step 3 for full instructions

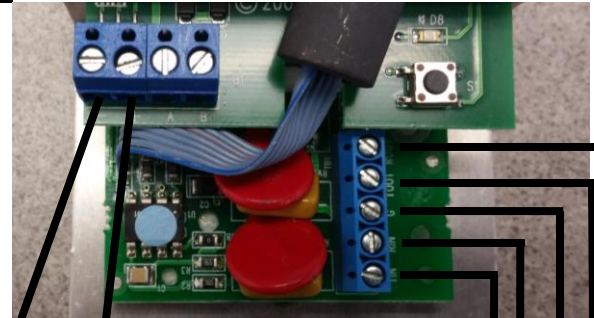
TIP RING

TELCO

CONTROL PANEL DIALER TERMINALS

DO NOT Connect Phone Line to Panel or Radio!

6b Wiring Diagram – Radio Backup (for USE with PHONE LINE)



NEG (-) POS (+)

12 VDC BATTERY

See Step 3 for full instructions

TIP RING

TELEPHONE LINE

Telephone line *MUST* be connected *directly* to Radio "TIN" and "RIN" terminals *ONLY!*
Make **NO** parallel connections!

To premise phones

Earth Ground
Must be grounded!

TIP RING
PHONES

TIP RING
TELCO

CONTROL PANEL DIALER TERMINALS

The Radio will only communicate with the panel when phone line voltage is not present due to a phone line cut. To test Radio, temporarily disconnect phone line from TIN and RIN or unplug the RJ jack. Reconnect after testing.

7 VERIFY INSTALLATION

- Confirm the NearNet radio is sending signals from the control panel output by calling the NearNet Automated Signal Verification System at (631) 736-7123 **OPTION 5**, and verify which sites are receiving signals. Make sure the **phone lines are not connected** to the telco board of the NearNet radio during this testing. Then call your central station to verify the proper alarms were sent. Note: Central station will not receive signals until the Transmitter data form is completed and faxed (see Step 1 above).