



TECHNICAL NOTE 03-94

MOBILE MAP PLUS SYSTEM FIELD TESTING GUIDELINES

You have sent us a portion of your system for testing and repair. We have tested and repaired (if necessary) that component, Serial No. _____. However, our testing has shown that some other component of your system may be affecting the operation of your system. We recommend that you perform the following field tests and alignment. The items marked are numbered as priorities 1, 2, and 3. We recommend performing the items numbered 1 first, then 2, and 3 if necessary. If you need any assistance and have questions, please do not hesitate contacting CDT.

TRANSMITTER UNIT

- _____ Test transmitter output (record and compare to factory test listed inside unit).
- _____ Test for amount of reflected power (record and compare to factory test).
- _____ Test Transmit radio frequency (should be .0005% of listed frequency).
- _____ Measure deviation of FM transmitted data signal (should be 3.5-4 kHz.)

BASE ANTENNA CONDITION

- _____ Inspect antenna for loose or corroded wiring and connectors.
- _____ Inspect outdoor connectors for proper silicone protection and wrapping.
- _____ Measure DC resistance of antenna and cable (should be open circuit).
- _____ Inspect antenna for solid mounting.
- _____ Inspect antenna for good earth ground.
- _____ Measure VSWR of antenna and cable (See transmitter power above).

VEHICLE ANTENNA CONDITION

- _____ Inspect antenna for loose or corroded wiring and loose connectors.
- _____ Measure DC resistance of antenna and cable (should be open circuit).

- _____ Inspect antenna for solid mounting.
- _____ Check that antenna is mounted on metal vehicle surface at least 2 ft. from obstructions and/or other antennas.
- _____ Verify antenna mount is properly grounded to vehicle surface.

ALARM ENCODER UNIT (tests should be performed in conjunction with mobile display)

- _____ Operation of test signal (reception at mobile display)
- _____ Measure and adjust data frequency (8.33 kHz \pm 2%)
- _____ Send test alarm messages (per manual)

MOBILE GRAPHIC DISPLAY UNIT(S) (perform some tests in conjunction with encoder unit)

- _____ Audio quality of received signal (use earphone provided with system).
- _____ Operation next to encoder (requires test antenna and power supply).
- _____ Proper operation of front panel REC and INT lamps.
- _____ Measure and adjust data frequency (8.33 kHz \pm 2%)
- _____ Align radio receiver module (requires service monitor and special test set up).