



Wulfsberg Electronics Division
A Chelton Group Company
6400 Wilkinson • Prescott, AZ 86301 • U.S.A.
Telephone: (520) 708-1550 • Fax: (520) 541-7627

Cognizant Engineer: Tom Tammen

DOES NOT CHANGE ORIGINAL APPROVAL

SERVICE NOTIFICATION

EQUIPMENT: RT-5000

DATE: June 24, 1999

NOTIFICATION NUMBER: WSN RT-5000-3

APPLICABILITY

This service notification applies to customers with RT-5000 FLEXCOMM II TRANSCEIVERS P/N 400-015525-[].

REASON

This is notification of three RT-5000 transceiver deficiencies that will affect product performance under certain operating conditions.

The first is a software defect causing an incorrect active antenna tuning command when certain specific frequencies are tuned. Installations with active antenna systems, such as those listed below, may experience reduced transmitter output power and reduced receiver sensitivity on the affected channels.

The affected channels are those frequencies ending in xxx.950 and xxx.975 MHz in the range between 29.9 and 399.9MHz.

The active antenna systems affected by the tuning command include models AT-50, AT-51, AT-5000, AT-560, and to a lesser extent, AT-550. Systems with passive antennas are not affected.

The second software defect causes detection of a wrong CTCSS subaudible tone when Tone 51 is selected. Tone 51 should detect 69.4Hz, but the transceiver erroneously detects 254.1Hz (Tone 63). The effect is that an RT-5000 operating with CTCSS Tone 51 squelch enabled will not break squelch when receiving the desired signal with CTCSS Tone 51.

The third software defect causes the CTCSS Tone 48 (150.0Hz) to be transmitted at a lower FM deviation than that required for compatibility with military radios. The military radio requirement is greater than 1KHz deviation, The RT-5000 produces a nominal 750Hz. Thus, some military radios will not detect and break squelch on transmissions from the RT-5000.

IDENTIFICATION OF AFFECTED UNITS

All RT- 5000 P/N 400-015525-[] units with Unit Serial Numbers below 2174, plus SN 2175, 2176, 2178, and 2180 are affected.

CRITICALITY

The defect does not represent a safety hazard nor will it affect flight performance.

CORRECTIVE ACTION

The affected units may be repaired and returned to service by installation of Wulfsberg Service Bulletin WSB RT-5000-3. Customers may arrange for this repair by contacting:

Wulfsberg Electronics Division
Attention: Repair and Overhaul Department
6400 Wilkinson Drive
Prescott, AZ 86301
(502) 708-1518

The Service Bulletin is recommended to be performed at customer convenience for those needing the corrected antenna tuning operation an/or the specified CTCSS Tone operations. It is recommended at next scheduled maintenance period for all others.

Also, there is a work-around procedure to fix the antenna tuning command on those channels ending with xxx.950MHz. Those channels may be reprogrammed to a frequency of xxx.949Mhz. This will produce the correct tuning command. The channel will be tuned 1KHz below the ideal center frequency, but will still provide an acceptable transceiver channel.

WARRANTY INFORMATION

Units still in the warranty period may be returned for installation of this modification under the terms of the warranty agreement.