

Bulletin

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Manual Supplement

From: Subscriber Product Group

Subject: **VHF** of HT1000, JT1000, MTX838, MT2000, and MTS2000 Radio Alignment Procedure:

New Radio Alignment Procedure for the Front-End Pre-Selector

It is important to follow this new front-end pre-selector tuning procedure. Failure to do so will result in sensitivity problems for some VHF radios.

Front-End Pre-selector *NOTE:* This Procedure is only required for tuning the front-end filter varactors in the VHF and UHF models. The 800 and 900 MHz models utilize a stripline pre-selector.

- 1 Set the Test Box (RTX4005B) meter selection switch to the "VOL" position, and connect a dc voltmeter capable of 1 mV resolution on a 2V scale to the Test Box AC/DC meter port to monitor the Received Signal Strength Indicator (RSSI).
 - 2 From the SERVICE menu, press F3 to select RECEIVER alignment.
 - 3 Press F2 to select the FRONT END FILTER softpot. The screen will indicate the receive frequencies at which the filter is to be tuned.
 - 4 Set the RF test generator to the first receive frequency +150Hz. Set the RF level at the radio standard antenna port to 4.0 ? Volts with no modulation.
 - 5 Adjust the UP/DOWN arrow keys to obtain a peak voltage on the dc voltmeter.
- NOTE for VHF only:* Write down this softpot value. Go to a softpot value of 121 and adjust UP to see if there is another peak voltage for the same frequency. If a new peak is found, disregard the first reading and start adjusting UP/DOW arrow keys from a softpot value above 121 for all test frequencies. If no other peak voltage is found use the original softpot value. This is only necessary for the first test frequency; if another peak is found do not go below 121 for the remaining frequencies.
- 6 Press F8 to program the soft pot value.
 - 7 Repeat steps 4-6 for the remaining frequencies.
 - 8 Press F10 and F2 to return to the RECEIVER menu.

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If applicable, enter this information or note this bulletin number and subject material in the appropriate equipment instruction manuals and make necessary schematic diagram changes. Enter this bulletin in the correct MASTER and CLASSIFIED INDICES for future reference. **Labor and/or parts warranty reference is limited to products sold and in use in the United States. For products sold and in use Internationally, this bulletin is for informational purposes only. Radios that are Agency Approved must follow designated agency guidelines.**

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