

**User / Operational Manual***Tune-Up Procedure (Draft)*

See the following manual excerpts (Chapter 10 and Chapter 13 of **MOTOTRBO MTR3000 Base Station / Repeater, Basic Service Manual**) for instruction on performing the field digital upgrade, operational verification, and programming / tuning.

All adjustments are software controlled and are pre-set at the factory. Certain station operating parameters can be changed using Customer Programming Software (CPS), within predetermined limits. Examples include transmit / receiver operating frequencies and transmitter power level.

After the base station / repeater and ancillary equipment have been mechanically installed, properly cabled, and power applied, the equipment must then be optimized; that is, before placing the base station / repeater in operation. The cable required is a standard "USB A to B" cable. Optimization is performed through the Customer Programming Software (CPS), kit number RVN5115.

After the base station / repeater is operational, the base station / repeater's codeplug data must be copied to a PC- compatible computer.

Optimization involves the following tasks:

1. Reading the base station / repeater codeplug from the base station / repeater (this ensures a match between the base station / repeater serial number (resident in the codeplug) and the serial number (part of the customized base station / repeater codeplug data) that is written back to the base station / repeater (see task 5).
2. Customizing the base station / repeater codeplug and saving the data to the base station / repeater.
3. Aligning the base station / repeater for:
  - Modulation Limit
  - Speaker Level
  - Station Reference
  - MTR2000 PA Calibration
  - Receiver Squelch Adjust
4. Performing post-optimization procedures.
5. Writing the customized codeplug to the base station / repeater codeplug.

For details on these tasks, refer to the Customer Programming Software (CPS) Online Help.