



June 9, 1977

CP300/CP400 SERVICE MANUAL REVISIONS

Due to several radio circuit and performance improvements, it is necessary to change the radio tuning procedure. Two radio sections are affected, the audio processor and R/T board.

AUDIO PROCESSOR:

Due to improvement of the transmit audio quality and elimination of the sometimes troublesome processor offset control, a new tune up procedure is required. This change is for board series 7H020-4 and higher only. Refer to the service manual, Section IV:

IV. CP-300/400 Audio Processor tune up (7H020-4 series and higher only).

1. Unchanged.
2. Change to: Set R570 (MIC) at full CCW (counter-clockwise) rotation.
3. This step is eliminated.
4. Unchanged

R/T BOARD:

This board has been changed for improved noise blanker performance, receive sensitivity, and receiver noise. Radios so changed are identified by a green dot on the rear TA label. This tuning procedure is for these green dot radios or radios modified to field service notes 3 and 4 only! Refer to Section VI.

VI. R/T TUNE UP (7H016 board). Change:

Step 3. On channel 23, tune L208, L209, L214, L211, L212, and L213 on LSB for peak S-meter reading. Adjust generator frequency to keep audio output at 1KC. Use R286 (SM) to keep the S-meter at S-9 and R306 (IF AGC) to keep the 1 KC audio on TP 8 at 3.0v p-p. Be sure audio is unsquelched. Keep reducing the rf generator input level as the receiver is tuned, to just barely keep the level in full AGC. Full AGC is usually at signal levels above 10 UV. Check clarifier operation by its rotation causing a change in receive audio frequency.

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