

Service Bulletin #4

June 7, 1977

CP300/400

The following modification procedure is designed to significantly reduce the ambient noise level, and increase the overall signal to noise ratio of the radio. In general operation the radio will be significantly quieter, more sensitive, and less susceptible to bleedover noise.

MODIFICATION PROCEDURE:

Parts required:

- 1 - 470 ohm $\frac{1}{4}$ watt resistor
- 1 - 1 K ohm $\frac{1}{4}$ watt resistor
- 1 - 1.5 K ohm $\frac{1}{4}$ watt resistor
- 1 - 220 K ohm $\frac{1}{4}$ watt resistor

Refer to component layout on following page for location of changes.

1. Unscrew two audio processor mounting screws, unsolder purple blanker wire, and swing away board to allow access to the RT board (7H016).
2. Remove and discard can at front left of RT board.
3. Remove and discard: Q213, R302, and R303
4. Jumper base pad to emitter pad of Q213 location (left and right hand pads where transistor was mounted).
5. Change R304 from 2700 ohm to 470 ohm.
6. Change R333 from 47 K ohm to 220 K ohm.
7. Change R285 from 470 ohm to 1500 ohm.
8. On front panel, install a 1000 ohm resistor in parallel across R820 (6800), see layout. This can be done on the back of the front panel board.

Tune up:

- a. Set R306 (IF AGC) on LSB for 3 volts p-p, 1 KC audio at TP 8, with 1000 microvolt signal at antenna.

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