

SERVICE BULLETIN

MODEL: GRANT, WASHINGTON, ADAMS, & MADISON using UHIC-005A VCO Integrated Circuit.

COMPLAINT: Transmitted signal cannot be clarified. Transmitted signal has "warble". Sounds like transmitting with microphone under water.

CORRECTIVE ACTION:

Install a 330 ohm 1/8 or 1/4 watt carbon resistor in series with the center conductor of the coaxial cable providing local oscillator injection to the first receiver mixer, FET-1. The resistor is to be installed with one end mounted in the printed circuit board hole provided for the center conductor of the coaxial cable at the "FET-1 end" of the cable. Lead lengths on the resistor must not exceed 1/4 inch overall length.

NOTE TO TECHNICIANS:

Use of the UHIC-005 was discontinued recently and the UHIC-005A used in its place. Measurements made at the factory indicate only a very small percentage of the units shipped have the indicated problem and it is confined to radios using the UHIC-005A.

Technicians should make the indicated change when the complaint is as indicated above or on any unit requiring service for other reasons although this specific complaint is not registered.

MODEL: TEDDY R

COMPLAINT: NOISE BLANKER CAUSES DISTORTION OF INCOMING SIGNALS. UNIT OPERATES BETTER WITH NOISE BLANKER OFF.

CORRECTIVE ACTION:

This problem is normally related to an installation which has a higher than normal amount of ignition impulse noise. The problem may be identified by observing that when a signal strength indication of S-7 (25mV) or higher is present and the noise blanker is on, intelligibility of the incoming signal is poorer than when the noise blanker is turned off.

Installations with usual amounts of ignition noise will not have the problem. Modifications are to be performed only when a specific complaint is received and the symptoms verified.

The parts required are:

2 each 1S2473 Silicon Diode	P/N 2000-303	(1N914)
1 each 0.47uf, 16V Capacitor	P/N 1800-301	
1 each 56K ohm, 1/8 W resistor	P/N 1900-067	

Install these parts as indicated on the following schematic.

INSTALL CIRCUIT SHOWN BELOW IN HEAVY LINES ON FOIL SIDE. SLEEVE PARTS TO AVOID SHORTING CIRCUIT TRACES.

