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Service bulletin

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X-2 Mute opens on short transient signals .

Scope

This service bulletin outlines the modification that has occurred to the X2 transceiver to facilitate improvements in the operation of the mute.

Note:- The modification mentioned in this service bulletin is incorporated in X2 transceivers from Serial No. A5166 onwards.

1.1 Symptom.

The mute gate operates, ie opens, on short transient signals. It is not possible to correct for this using the mute adjustment potentiometer as it is related to the attack time of the mute circuit.

1.2 Parts required.

1 x 100K ohm resistor (Codan Part number 40-51000-020).

1.3 Details.

The remedy requires R362 on the Receiver/Exciter PCB assembly, 08-04840-001, to be changed from 3K9 ohms to 100K ohms. With the transceiver disconnected and removed from the installation, remove the top cover. Identify R362, which is located in the bottom right corner of the PCB (with the front panel towards you) to the left of IC308, LM339. Check the value of this resistor. If it is 100K ohms then there is no need to perform this change. If R362 is 3K9 ohms, then proceed as follows. Disconnect the two ribbon cables at the front edge of the PCB and disconnect the coaxial loom at the rear of the PCB. Remove the 6 cross head screws securing the PCB in place and withdraw the PCB.

Using the appropriate desoldering tool, carefully remove R362 and replace it with a 100K ohm resistor. There is no need to readjust the mute following this procedure.

Refit the PCB into place and secure with the 6 screws. Replace the coaxial loom and the ribbon cables correctly onto their corresponding connectors and replace the top cover.