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RELATED DOCUMENTS:
C/R

Failure of 8580 to establish link OR very slow data transfer

1. Scope

This Service Bulletin refers to Codan 8580 modems used with a 9323/9360/9390/9780 transceiver.

2. Symptom

A link fails to be established or the software status bar of the 9102 repeatedly reports 'RQ' or 'ERROR' messages whilst operating on an otherwise good HF channel.

The fault is related to VCO2 within the transceiver. It may only occur intermittently.

3. Equipment affected

Only 9323/9360/9390/9780 transceivers with E prefix serial numbers dispatched from Codan up to 11 September 1997 may be affected.

Any 9323/9360/9390/9780 transceivers with A, B, C or D serial numbers also need to be considered if the Receiver/Exciter Printed Circuit Board (PCB) has been changed to the 08-05322 version.

4. Modification

The modification involves the changing of a capacitor value on the Receiver/Exciter Printed Circuit Board (PCB), part number 08-05322-001 or 002.

4.1 Parts required

1 x 220 pF, 10%, 100 V ceramic capacitor, Codan part number 46-22200-200.

4.2 Tools required

Pozidrive screwdriver (1 point)
Desoldering tool
60/40 Tin/Lead resin core solder
Soldering iron
Side Cutters

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4.3 Procedure

1. Remove the transceiver from the installation.
2. Remove the top cover.
3. Disconnect the three plugs connected to the Receiver/Exciter PCB.
4. Remove the seven screws securing the PCB.
5. Withdraw the PCB from the chassis.
1. Locate C127, 33 nF. Refer Figure 1.

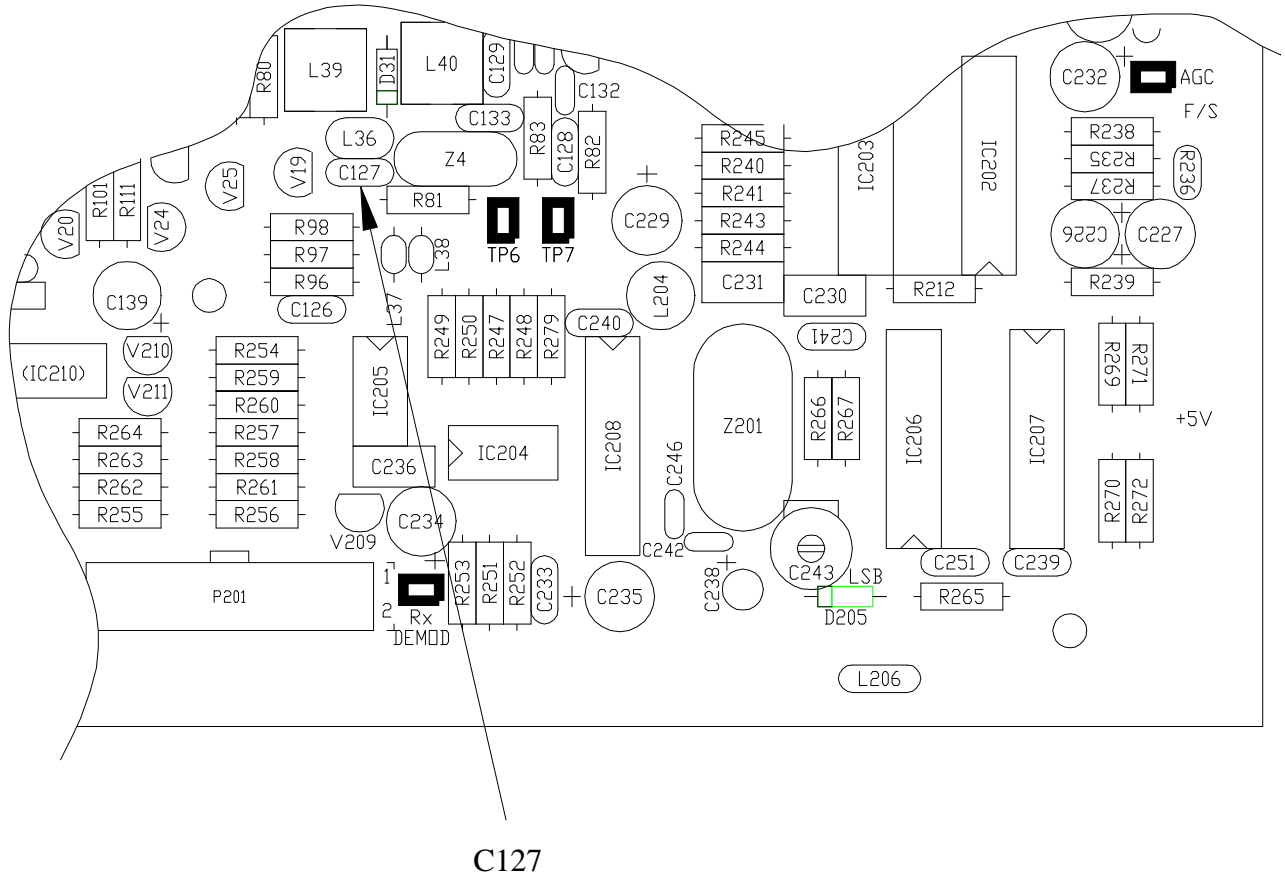


Figure 1: Portion of Receiver/Exciter PCB

2. Using the appropriate desoldering tool, remove C127 from the PCB.
3. Replace C127 with a 220 pF capacitor.
4. Fit and secure the PCB into the chassis with the seven screws.
5. Refit the plugs ensuring the lead with the red identification (P502) connects to J2 (the connector closest to the large VCO1 can).
6. Fit the top cover and secure.
7. Reinstall the transceiver.
8. Connect power.