

Introduction of new surface mount PCBs in 9323/9360/9390/9680/9780 Transceivers

Introduction

This Service Bulletin affects users of the 9323/9360/9390/9680/9780 Transceivers. The thru-hole printed circuit boards (PCBs) of the Receiver Exciter and the Power Amplifier assemblies have been replaced with surface mount PCBs (see Table 1). The new PCBs increase the reliability of the transceiver, and meet the changing availability of some components.

Table 1: Comparison of new and old PCBs/assemblies

PCB/assembly	Part number	Circuit diagram ²
New Receiver Exciter PCB	08-05798-001	04-03349
Old Receiver Exciter PCB	08-05322-001	04-03135
New 26.5 MHz Power Amplifier Assembly	08-05749-001	04-03269
Interim 26.5 MHz Power Amplifier Assembly ¹	08-05872-001	04-03372
Old 26.5 MHz Power Amplifier Assembly	08-04963-001	04-02973
New 30 MHz Power Amplifier Assembly	08-05749-002	04-03268
Interim 30 MHz Power Amplifier Assembly ¹	08-05872-002	04-03373
Old 30 MHz Power Amplifier Assembly	08-05237-001	04-03096
New 50 W Power Amplifier Assembly	08-05749-003	04-03360
Old 50 W Power Amplifier Assembly	08-04963-002	04-03177

1 The interim Power Amplifier assemblies were fitted to transceivers to overcome component supply problems.

2 The circuit diagrams are available from Codan if required.

Details

The 9323/9360/9390/9680/9780 Transceivers that have been fitted with the new PCBs have a serial number prefix of J or greater. The serial number prefixes of the transceivers fitted with the old and new PCBs are listed in Table 2.



During the transition period from thru-hole to surface mount PCBs, some transceivers may have been manufactured using both thru-hole and surface mount PCBs.

Table 2: Serial number prefixes of the transceivers fitted with the old and new versions of the PCBs

Type of transceiver	Old serial number prefix	Interim serial number prefix	New serial number prefix
9323	F	K	J
9323 H	F	K	J
9323 low power	Q	K	J
9360 C	F	K	J
9360 low power	Q	K	J
9360 MR (Arabic)	B	K	J
9360 MR (Cyrillic Russian)	B	K	J
9360 V	B	K	J
9360-30	F	K	J
9390	F	K	J
9390 H	C	K	J
9680	F	K	J
9780	C	K	J
9780 low power	Q	K	J

Software compatibility

Receiver Exciter PCB

Transceivers using software versions earlier than version 4.20

To fit the new Receiver Exciter PCB in transceivers using software versions earlier than version 4.20, complete the following:

- ☐ Upgrade the software to at least version 4.20 (for details see Information Bulletin IB-00001 and the Service Bulletin *9323/9360/9390 Series—Receiver Exciter* (Codan part number 17-00167)).
- ☐ Modify the PCB of the control panel, according to the Application Note *9323 software upgrade* (Codan part number 17-60056).
- ☐ Fit the new Receiver Exciter PCB.

Transceivers using software versions 4.20 or later

The new Receiver Exciter PCB can be used as a direct replacement in all transceivers using software versions 4.20 or later.

Power Amplifier Assembly PCBs

The new Power Amplifier Assembly PCBs can be used as a direct replacement in all transceivers.

Repair issues

The surface mount PCBs cannot be repaired in the field and should be considered for module level repairs only.