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RELATED DOCUMENTS:  
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## 8525B/8528/9313/9480 - Erroneous Power up

### 1. Scope

This Service Bulletin refers to 8525B/8528/9313/9480 series transceivers that power up of their own accord.

8525B/8528/9313/9480 series transceivers invoiced from August 1995 are fitted with this modification.

### 2. Symptom

The radio will be found to be powered up despite the ON/OFF pad not having been pressed. It can be turned OFF, but *may* turn back ON again immediately. More often than not, it will stay OFF, only to power up again later.

No other front panel functions are affected.

### 3. Cause

The cause is a small leakage current in the Power On circuit via the switch substrate. This leakage current is sufficient to forward bias V2 (the Power On transistor) hence energising K2 and turning the radio ON.

### 4. Remedy

The problem can be corrected by applying some reverse bias to V2 negating the effect of the leakage current. This is done by installing a 2K2 ohm resistor between the Base and Emitter of V2.

### 5. Parts required

1 x 2K2 ohm CR25 resistor (Codan Part Number 40-32200-020).

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## 6. Where to fit the resistor

The resistor must be fitted between the Base and Emitter of V2 on the top side of the Motherboard. This is best achieved by fitting the resistor between R12 and C11 as follows.

## 7. Procedure

- 7.1 Remove the radio from the installation.
- 7.2 Remove the bottom cover.
- 7.3 Locate the Microprocessor Assembly. (Refer Figure 1)
- 7.4 Remove the Microprocessor Assembly.

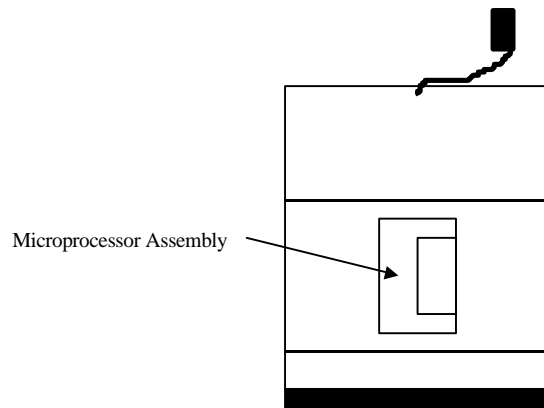


Figure 1. Location of Microprocessor Assembly

- 7.5 Locate R12 and C11. (Refer Figure 2)

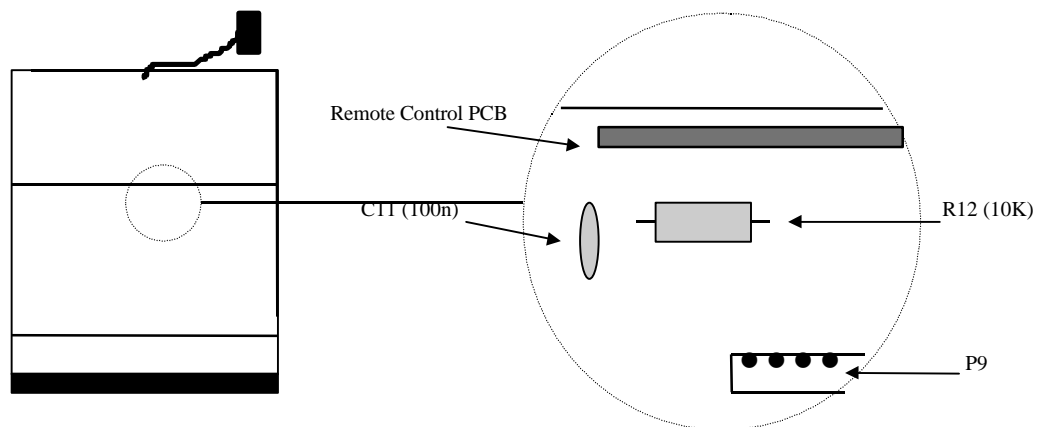


Figure 2. Location of R12 and C11

- 7.6 Solder the 2K2 resistor to R12 and C11 as shown in Figure 3.
- 7.7 Refit the Microprocessor Assembly. (Ensure that two adjacent connector pins do not go into the same socket.)
- 7.8 Refit the bottom cover.
- 7.9 Reinstall the transceiver.

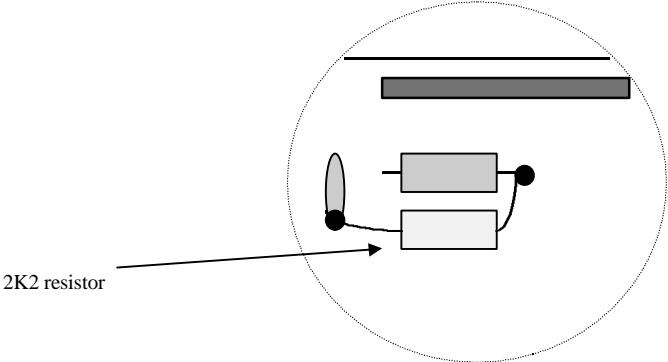


Figure 3. Location of 2K2 resistor