



CODAN

Cut out in the power supply from Power Supply Units 9113B and 9114

Introduction

This Service Bulletin affects users of the Power Supply Units (PSUs) 9113B and 9114:

- fitted with IC1 (type LMC7101)
- with serial numbers B1771 to B1851 (PSU 9113B only)
- with serial numbers A4620 to A4700 (PSU 9114 only)



PSUs 9113B with serial numbers later than B1851, and PSUs 9114 with serial numbers later than A4700 have been modified in the factory.

IC1 (type LMC7101) was fitted to PSUs 9113B and 9114 to replace IC1 (type LM307), which is obsolete.

During transmission, IC1 (type LMC7101) is sensitive to RF on the positive lead from the transceiver. This activates the current limit circuit in the PSU, which causes the PSU to switch off.

Symptom

While the transceiver is transmitting, the PSU will incorrectly activate the current limit circuit and switch off.



This usually occurs on the higher frequencies.

Equipment

The following equipment is required:

- wire cutters
- Philips-head screw driver

Action

Checking if IC1 (type LMC7101) is fitted

- Switch off the power to the PSU.
- Disconnect the PSU from the transceiver.
- Remove the 10 screws from the cover of the PSU, including 4 on the top and 3 on either side of the cover, and remove the cover.
- Locate IC1 and check the type (see Figures 1 and 2).

If you have IC1 (type LM307) fitted, continue from page 3, *Reassembling the system*.

If you have IC1 (type LMC7101) fitted, continue from *Removing C13 or C14 from the power supply units*.

Removing C13 or C14 from the power supply units

- Locate the capacitor on the PCB of the PSU.

If you have a PSU 9113B, locate C13 on the PCB (part number 08-5616-001) of the PSU (see Figure 1).

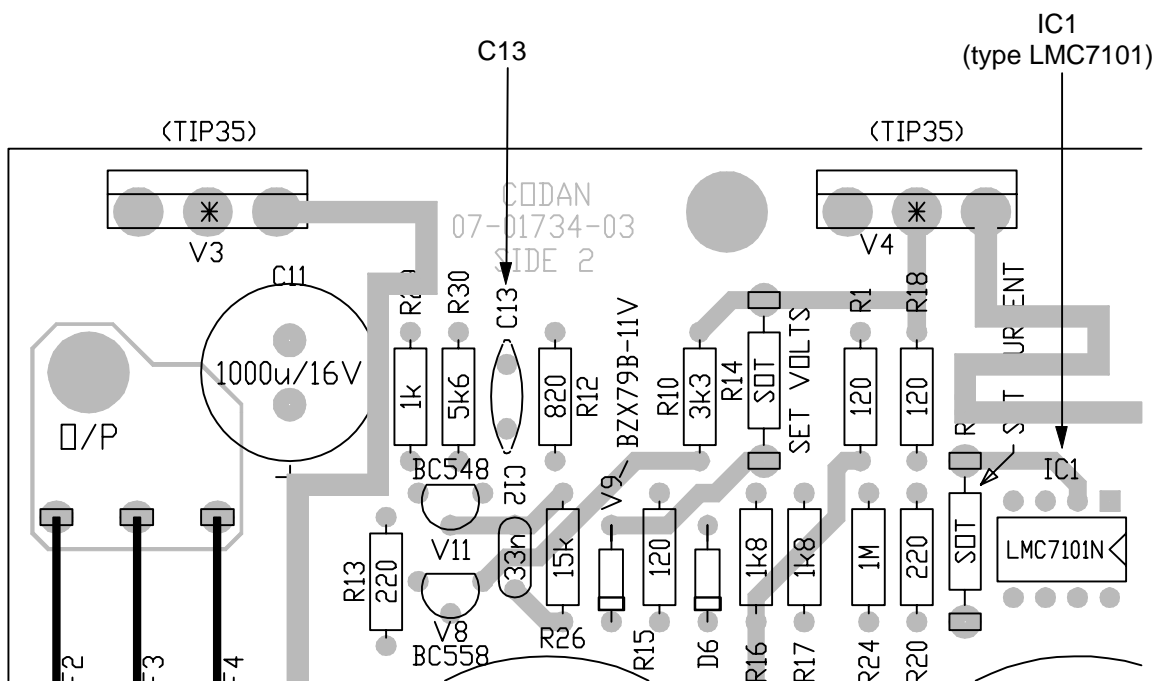


Figure 1: Location of capacitor C13 in PSU 9113B

If you have a PSU 9114, locate C14 on the PCB (part number 08-5615-001) of the PSU (see Figure 2).

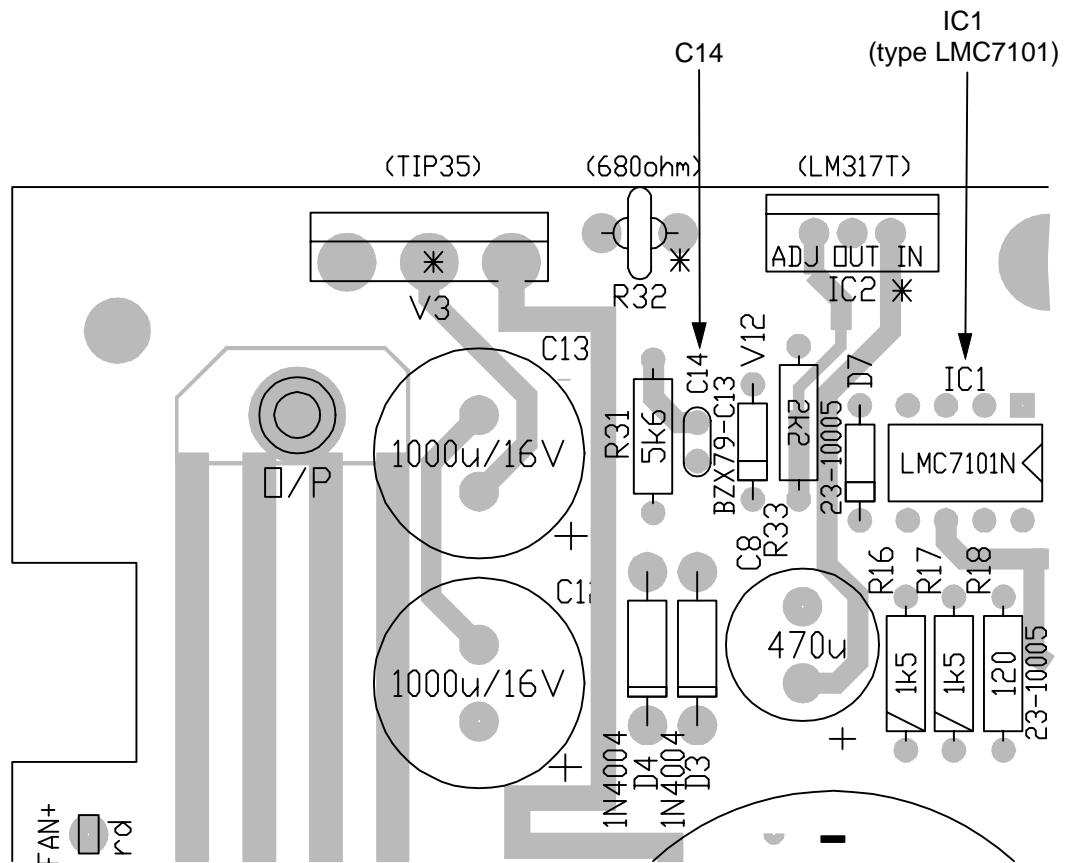


Figure 2: Location of capacitor C14 in PSU 9114

- Using wire cutters, remove the capacitor from the PCB.

Reassembling the system

- Replace the cover of the PSU and secure it into position with the screws.
- Reconnect the PSU to the transceiver.
- Switch on the power to the PSU.
- Check that the system is operating correctly.

If you have any problems, please contact your Codan representative.

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