## 9323/9360 software and hardware upgrade for morse code



## Introduction

This Service Bulletin affects the users of 9323/9360 transceivers with Option M and software versions 4.34 or earlier, who need to send morse code at speeds of up to 68 words per minute. It applies to transceivers fitted with Microprocessor and Audio PCB, part number 07–01536–11 or earlier. The location of the PCB part number is shown in Figure 1.

## **Symptom**

The switching speed of the transceiver is too slow causing high speed morse transmissions to sound irregular.

## **Action**

To improve the morse switching speed of the transceiver, upgrade to software version 4.35 and perform the following hardware modification.

- ☐ Switch the power off.
- From the component side of the Microprocessor and Audio PCB (assembly part number 08–04966, PCB part number 07–01536–11), cut pin 9 of IC111 using side cutters (see Figure 1).

Ensure there is no connection between pin 9 of IC111 and R228 through visual examination or using an ohm–meter.

Route the multi–strand wire (part number 66–02072–005) from R228 to pin 4 of P204 (see Figure 1).

After the software and hardware upgrade the 9323/9360 transceivers will support sending morse code at speeds of up to 68 words per minute.

**Head Office** 

© 17-00195 Issue 1, February 1999

Page 1 of 2

Codan Pty Ltd ACN 007 590 605 81 Graves Street Newton South Australia 5074 Telephone +61 8 8305 0311 Facsimile +61 8 8305 0411 Codan (UK) Ltd Gostrey House Union Road Farnham, Surrey GU9 7PT United Kingdom Telephone +44 1252 717 272 Facsimile +44 1252 717 337 Codan Pty Ltd Suite 11A, 2 Hardy Street South Perth Western Australia 6151 Telephone +61 8 9368 5282 Facsimile +61 8 9368 5283

Worldwide Web: www.codan.com.au

Codan Comunicaciones Ltda.

Av. 11 de Septiembre 2155, Of. 701/A
Edificio Panorámico
Providencia
Santiago, CHILE
Teléfono +56 2 373 9577
Facsímile +56 2 373 9579

Email: radcom@codan.com.au

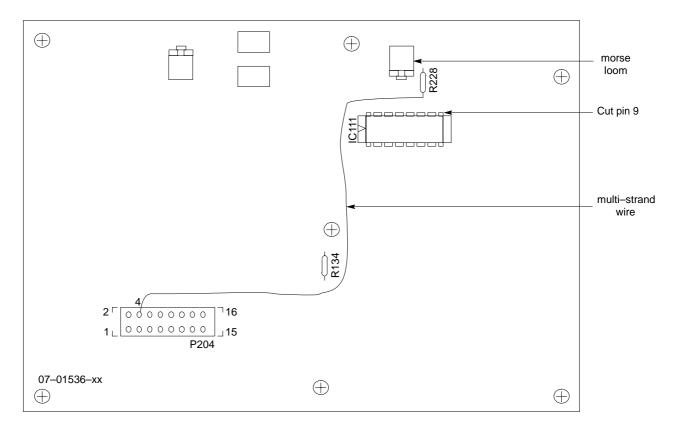


Figure 1: Hardware modification to the Microprocessor and Audio PCB (07–01536–11)