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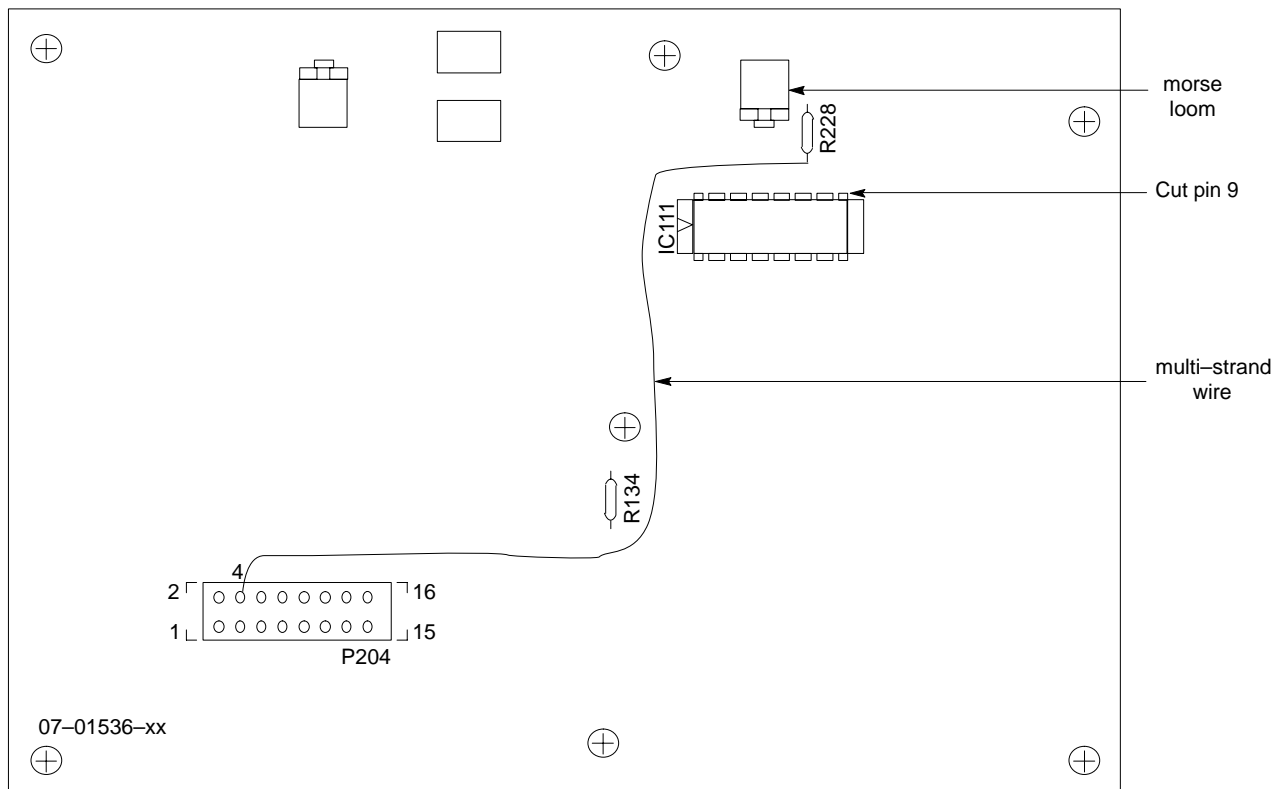
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Figure 1: Hardware modification to the Microprocessor and Audio PCB (07–01536–11)