Technical Services Memo

Volume: 18 Number: 9 Date: May 21, 1996

Product Code: PA
Subject Code: MC
Part Number: 19D903081
LBI: 38828

CATEGORY: PORTABLE

SUBJECT: WET UDC CONNECTOR MAY CAUSE RADIO LOCK UP PROBLEMS

PROBLEM:
MPA radios of all bands and splits built with 19D903081G1 or G3 controller boards may exhibit blanked displays, or inoperative keypads if the UDC connector gets wet during normal service. This is caused by the by the 7.5 VDC always present on the UDC leaking over to pin 8, the VPP input. A voltage of 1.5 VDC or greater, depending on component tolerances, may cause the MPA radio to switch from normal operation to internal boot ROM code (used when flashing the radio).

If the MPA radio displays “VG 9600” when the personality programming sequence begins, it has a 19D903081 controller board.

SOLUTION:
Radios affected by this condition can be modified as follows to raise the threshold of the flash voltage detection circuit.

On the 19D903081G1 and G3 controller boards change R50 from a 19A149818P103 (10Kohm) to a 19A149818P104 (100Kohm).

Controller boards manufactured with the above changes will be marked as follows:
19A149818G1 to rev “M”
19A149818G3 to rev “H”