Technical Services Memo

Volume: 16 Number: 10 Date: September 13, 1994

Product Code: PA
Subject Code: DC
Part Number: I9D902282
LBI: 38383

CATEGORY: PORTABLES

SUBJECT: MPA BATTERY FLAG, TX HUM & NOISE

PROBLEM:

Some MPA radios may exhibit transmit motor boating, hum and noise, or delay of the battery flag display. The 10 Ω resistor, (R75) in series with the battery and the voltage regulator, can drop the regulator input to very near the threshold level. This drop is more severe when using intrinsically safe batteries since their voltage drops more during transmit.

SOLUTION:

To improve the performance of UHF MPA portable radios at low battery voltage, change R75 from 19B801251P100 (10 Ω) to 19B801251P1R0 (1 Ω) on all groups of 19D902282 T/R boards.

Mark all groups of 19D902282 boards to Revision "F" after this modification to match the factory revision level change.