



# TECHNICAL SERVICES MEMO

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CATEGORY: MOBILE UNITS

SUBJECT: POTENTIALLY HAZARDOUS CAPACITORS IN TRANSMITTER POWER AMPLIFIERS

There is a potential problem with General Electric CUSTOM MVP MASTR II and Exec II transmitter power amplifiers (VHF, UHF, and 800 MHz) shipped between July 1, 1980, and February 1, 1981. These units are further identified by serial numbers whose first three digits sequence from "014" through "104". General Electric has experienced a problem with the 19A134202P8 and 19A134202P15 capacitors used on both mobile and station transmitter power amplifiers.

In short, when voltage is applied to the unit, certain of the above named capacitors break down due to a rapid burn-up. When the capacitor breaks down it may spray tantalum, which could injure the face of someone servicing the radio. No such danger is associated with use of the unit, since any breakdown will be contained within the enclosed amplifier. (No damage to the power amplifier board is caused by the burn-up.) The problem is confined to those parts supplied by only one of General Electric's capacitor vendors. The particular capacitors are identified by a teardrop shape and black color, with a red dot on the body.

It is not necessary that special servicing be done to change the two capacitors. However, General Electric recommends that all affected power amplifiers be inspected during regular service. Anyone performing service should first -- prior to applying power to the unit -- determine whether capacitors fitting the above description and part numbers are present. If so, they should be replaced by capacitors manufactured by other vendors identifiable by a different body color. Customers receiving this Technical Service Memo who do not have their units serviced at GE-franchised service shops should bring this transmittal to the attention of the person performing the service.