



TECHNICAL SERVICES MEMO

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CATEGORY: MOBILES/BASE STATIONS (MASTR II)

SUBJECT: NEW ICOM INTERCHANGEABILITY

A new ICOM (19A137763) is replacing the old familiar 19A129393 in MASTR II. In most cases this is a direct replacement, except:

1. In 450 MHz (VHF) applications the waveform of the new ICOM is insufficient to drive the exciter without modification.

On exciter 19D423865 G2 and G4, replace R-143 (2.2K) with 19A700104783 (6.8K). Advance revision letter from E to F.
2. In radios with multi-frequency CG options there was a frequency selection problem caused by raising the selection line one diode drop above ground.

The cure came in Revision "A" to the ICOM which went into production Week 18. (Date code 180J means 18th week of 1980 inspected by "J").

3. Because the loading capacitance of the two types of ICOMs is different, a staggered tuning procedure may be required, especially in receivers using both ICOMs. Engineering has assured that the slight retuning will not degrade the radio from specs regardless of which ICOM, or mixture of ICOMs, is used.

If the receiver is fully loaded with eight ICOMs of the new design, there may be problems tuning to the high end on VHF and UHF.

On UHF osc./mult. board 19D423264G3 and G7, replace C407M with 19A116656P1230 (12 pf NPO). Advance revision letter from "U" to "H".

On VHF osc./mult. board 19D423241, replace C407L with 19A116656P153E (15pf - 80 ppm), or replace C407M with 19A116656P130 (3 pf NPO). Advance revision letter for G1 & G3 boards from "D" TO "E"; for G2 & G4, from "Z" to "Y".