

DATE May 21, 1954SH. 1 OF 1COMPILED BY  
GTO

## TMC SPECIFICATION NO. S-211

TITLE: Modification of FFRD-5 &amp; 6

JOB

APPROVED G.T.O.

United States Air Force Modification

## A. PURPOSE

To provide a modification procedure for Models FFRD-5 and FFRD-6 to provide greater HFO excursions. Requests from the field have indicated the desirability of increasing the deviation of the receiver HFO when used under certain remote control conditions. The Tuning Drawers as supplied from the factory provide a 1 Kc per Mc shift for an input voltage of  $\pm 3$  volts on the reactance tube (HFO). This modification makes possible a  $\pm 4$  Kcs per Mc minimum overall shift of the HFO for the input voltage.

## B. COMPONENTS REQUIRED

1. Model FFRD-6, C-625, replace with Part CC21SL270J

## C. WIRING PROCEDURE

1. Model FFRD-5: Remove capacitor C525 Part CC21SL470K lead from the terminal post (see cut below) and re-connect it directly to the grid tap of the oscillator coil L502. It may be necessary to increase the lead length to perform this operation.

2. Model FFRD-6: Remove capacitor C625, Part CC21SL470K. This capacitor is wired between pin #5 of V603 and a terminal post. Re-connect Part CC21SL270J between pin #5 of V603 and the grid tap of the oscillator coil L602. (Same as performed on FFRD-5). DO NOT apply too much heat to the coil lug. Rebalance reactance tube circuit by means of C623 followed by readjustment of the oscillator trimmer C627 at the high end of the tuning range. See FFR Instruction Manual for alignment procedures.

## D. PICTORIAL SCHEMATIC

