

DATE 1-31-62	TMC SPECIFICATION NO. S 654	
SHEET 1 OF		
F.R.D. COMPILED	CHECKED <i>MS</i>	TITLE: FFR RECEIVER MOD. CAN-1A
APPROVED <i>SM</i>		

1) PURPOSE

To improve HFO crystal stability in the FFR.

PROCEDURE

The Tuning drawer is modified by removal of reactance tube and associated components.

FFRD-1	FFRD-2	FFRD-3	FFRD-3M	FFRD-5	FFRD-6
R126	R226	R326	R21	R517	R617
R127	R227	R327	R22	R518	R618
R128	R228	R328	R23	R519	R619
R129	R229	R329	R25	L501	L601
R130	R230	R330	R26	R521	R621
C125	C225	C325	C24	C520	C620
C126	C226	C326	C25	C521	C621
C127	C227	C327	C26	C522	C622
C128	C228	C328	C27	C523	C523
C129	C229	C329	C30	C524	C624
C130	C230	C330	C31	C525	C625
R131	R231	R331	R24	R520	C620
V103	V203	V303	V4	V503	V603
			C28	C531	C631
			C42		

The existing crystal socket XY202 is removed and the hole left is blanked by a plate part #NP-10046.

The skirted type tube socket for the reactance tube is removed and replaced with a non skirted type part #TS-10006. Heater conductors disconnected are reconnected to supply 6.3V AC to the oven heater which is installed in the socket previously occupied by the reactance tube. The connections removed from the crystal socket are to be connected to the appropriate crystal pins of the new socket, i.e. heater connections to pins #2 and #6, crystal connections to pins #1 and #7.

In the FFRD-3M, FFRD-5 and FFRD-6 a 120 pfd ceramic capacitor (part #CC-101-4) is connected between the appropriate crystal pin and ground, i.e. the same point electrically as previously occupied by C42, C531 and C631 in the FFRD-3M, FFRD-5, and the FFRD-6 respectively.

This modification entails complete realignment of the tuning drawer, and also incorporation of MOD. CAN-1A to the receiver power supply.

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NOTE: A tuning drawer modified with MOD. CAN-1 should never be used with an unmodified receiver.

Incorporation of this modification renders the remote HFO reactance control in-operative.

## PARTS REQUIRED

1. Crystal oven 7 pin base Snelgrove #SO-2M.
1. Tube socket 7 pin miniature #TS-10006.
1. Blanking plate Part #NP-10046.
12. Inches MW 22 (7) wire.
1. Ceramic Capacitor #CC-101-4.

## MODIFICATION CAN-1A - FFR POWER SUPPLY

### 1) PURPOSE

This modification is to supply the additional heater current demand made by incorporation of MOD. CAN-1A to the FFRD.

### PROCEDURE


Locate TF-10017 transformer in power supply in accordance with drawing #MS-10341, locate stand-off mounting plate part #MS-10337 in accordance with drawings #MS-10339 and drawing #MS-10340.

Connect TF-10017 primary pins #1 and #2 in parallel with primary of T105, using existing fusing.

Remove connections from pins #8, #9 and #10 TF101, connect these leads to the stand-off insulators mounted on plate MS-10337, join these points to the appropriate terminals #3, #4 and #5 on the secondary winding of TF-10017.

## PARTS REQUIRED FFR MOD. CAN-1A

1. TF-100017 Transformer, power.
3. TE-102-2 Insulator, stand-off.
6. TE-117-1 Spacer.
4. SCBS-0632BN10 Screw.
1. MS-10337 Plate.
3. SCBS-0440BN4 Screw.
1. SCBS-0632BN4 Screw.
3. LWI-04MRN Lockwasher.
2. LWI-06MRN Lockwasher.
2. SCFS-0632BN10 Screw.
3. NTH-0632BN8 Nut.
1. EY-102-2 Grommet, Elastic.
1. CU-100-3 Clamp, tube.
2. FW-06LBN Washer.
- 22" MW-22-7 Wire.
- X CD 101-1MW Cord, lacing, nylon, flat.

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8" PX 100-1.48 Insulation, sleeving.

SUPPORTING DRAWINGS

- MS-10340.
- MS-10339.
- MS-10337.
- MS-10341.