

DATE 24/6/60  
SH. 1 OF 4

TMC SPECIFICATION NO. S-10036

COMPILED BY  
R.W.T.

TITLE: PRODUCTION TESTING OF CRYSTAL B.F.O.

JOB

APPROVED *R.W.T.*

GPR-90-RX MOD. CAN-1B

*ABC*

INSTRUCTIONS

FOR THE

PRODUCTION TESTING OF CRYSTAL B.F.O.

GPR-90-RX MOD. CAN-1B

DATE 24/6/60

SH. 2 OF 4

COMPILED BY

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GPR-90-RX MOD. CAN-1B *100*

1. TEST EQUIPMENT REQUIRED

- 1.1 Oscilloscope; Tektronix Model 545  
with type 53/54B drawer.
- 1.2. Counter; Berkeley Eput Meter Model 5558.
- 1.3. Power Supply Unit; 150V DC stabilized 6.3V A.C.
- 1.4. 4 pin plug to octal socket adaptor.

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2. TEST INSTRUCTIONS

2.1. General and Visual Inspection

- 2.1.1. Inspect the unit for obvious electrical and mechanical errors by comparison with the prototype.
- 2.1.2. Ensure particularly that there are no dry joints or short circuits.
- 2.1.3. Check that soldered connections to the crystal unit have been made at the tips of the pins using a heat shunt.
- 2.1.4. Check that screws are tight.

2.2. Electrical Performance Tests

- 2.2.1. Connect the crystal B.F.O. to the power supply by means of the adaptor provided and switch on.
- 2.2.2. Give the crystal B.F.O. a minimum of 5 minutes to warm up.
- 2.2.3. Connect the output of the crystal B.F.O. to the oscilloscope and the "Vertical Signal Out" terminal on the oscilloscope to the input of the Counter.
- 2.2.4. Measure the peak-to-peak amplitude of oscillation on the scope. This should be within  $\pm 10\%$  of 1 volt.
- 2.2.5. Measure the frequency of oscillation on the counter. This should be between the limits 452.465 kc/s and 452.445 kc/s.

3. APPLICABLE DRAWINGS.

A-10267	Assembly.
CK-10315	Schematic.
ML-10097	Material List.