TMC SPECIFICATION

NO. S 1091

REV: ø A

COMPILED: RRH | CHECKED: | APPD: | SHEET 1 OF 5

TITLE:

Typed by mtp

S1091

TEST PROCEDURE FOR RTO-1A

A. EQUIPMENT REQUIRED

1. Two (2) 12 volt DC power supplies (batteries may be used as a substitute).

2. Simpson 260 VOM.

3. Tektronix type 541A scope with a type L plug-in head.

4. Hewlett-Packard 5244L frequency counter.

5. Ballantine 314A VTVM.

B. PROCEDURE

1. Connect the volt-ohmmeter, set to read 12 volts, between Pin 1 and ground of the oscillator board nearest K101, (negative lead to Pin 1).

2. Connect 12V supply between terminal 3 of TB101 and ground, (negative to Pin 3).

3. When the right hand push-to-test button is pushed, K101 should energize and the VOM should read -12 VDC.

4. Connect 12 volt supply between terminal 4 of TB101 and ground, (negative to pin #4).

   a. You should hear K101 energize, and the meter should again read -12 VDC.

5. Connect scope to junction of C206 and R205 on the oscillator board nearest K101.

   a. Connect the counter to the vertical output on the scope.
   b. Adjust C202 for the frequency marked on the crystal.

6. Connect the VTVM to the junction of C214 and T201.

   a. Peak C215 for maximum on the meter (1 mv minimum).
   b. Connect the scope to the VTVM amplifier output and set the meter on the 100 mv scale.

      (1) Adjust R215 for approximately 30% modulation on the scope.

7. Move the negative lead of the volt-ohmmeter over to Pin 1 of the oscillator board nearest K102, (positive lead to ground).

B. PROCEDURE - Cont'd

8. When the left hand push-to-test button is pushed, K102 should energize and the meter should read -12 VDC.

9. Move the negative lead of the 12V supply from Pin 4 to Pin 5 on TB101.

   a. You should hear K102 energize and the meter should again read-12 VDC.

10. Move the scope to the junction of C206 and R205 on the oscillator board nearest K102.

   a. Adjust C202 for the frequency marked on the crystal.

11. Move the VTVM to the junction of C214 and T201 on the board nearest K102.

   a. Peak C215 for maximum (1 mv minimum).
   b. Connect the scope to the amplifier output on the VTVM, and set the meter to the 100 mv scale.

      (1) Adjust R215 for approximately 30% modulation on the scope.

12. Connect 12 volt supply between terminal 3 of TB101 and ground. (Neg. to pin #3)

   a. Connect Simpson VOM (set for ohms) to J101 and J103. Should read Ø ohms.
   b. Depress S101. Meter should read infinite.
   c. Repeat for J102 and J104 using S102.

THE TECHNICAL MATERIEL CORP.

MAMARONECK, N.Y.

TEST DATA SHEET
for
RTO-1A

MFG. NO._____

SERIAL NO._____

	OSCILLATOR #1	OSCILLATOR #2
1. Voltage check at Pin 1 by pressing pust-to-test button.		
2. Voltage check at Pin 1 by energizing relay.		
3. Frequency.		
4. Voltage measured at junction of C214 and T201.		

DATE:_____

TESTER:_____

REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK

S1091
LIST NO.

DATE	REV.	SHEET	EMN #	DESCRIPTION sheet 5 of 5	APP.
4/25/66	Ø			ORIGINAL RELEASE FOR PRODUCTION	
9/28/66	A	2&3	16929	Revised per EMN	

TMC FORM MLR-1 8-65—AINS.