T	NO. S 1044		
REV:			
COMPILED: RRH	CHECKED:	APPD:	SHEET 1 OF 4
TITLE:		11/29/65	
Typed by mtp			

TEST PROCEDURE FOR RTO-1

TM	C SPECIFICATION	ON	NO. S 1044
REV:			
COMPILED: RRH	CHECKED:	APPD:	SHEET 2 OF 4
TITLE: TEST PROCEDUR	E FOR RTO-1		<u> </u>
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## A. EQUIPMENT REQUIRED

- 1. 12 volt DC power supply (battery may be used as a substitute).
- 2. 24 volt DC power supply (battery may be used as a substitute).
- 3. Simpson 260 VOM.
- 4. Tektronix type 541A scope with a type L plug-in head.
- 5. Hewlett-Packard 5244L frequency counter.
- 6. 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 push-to-test button is pushed, the VOM should read 12 VDC.
- 4. Connect 24 volt supply between terminal 4 of TB101 and ground, (negative to ground).
  - 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 near-est 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 1 ad of th volt-chmmeter over to Pin 1 of the oscillator board near st K102, (n gative 1 ad to ground).

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B. PROCEDURE - Cont'd

- 8. When the left push-to-test button is pushed, the meter should r ad 12 VDC.
- 9. Move the positive lead of the 24V 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. This completes the testing. Remove all equipment.

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