

**TD-3 MICROWAVE RADIO  
J68386G AND J68386H TRANSMITTER-RECEIVER BAYS  
IN-SERVICE FREQUENCY CHECKS ON 40-MHz OSCILLATOR  
USING KRUSE 52011 IF/RF TEST SET**

This appendix supplements Section 411-500-501.

It contains procedures to be followed when making in-service checks on 40-MHz oscillator using Kruse 52011 IF/RF Test Set.

**IN-SERVICE FREQUENCY CHECKS ON 40-MHz OSCILLATOR**

**APPARATUS**

1—Kruse 52011 IF/RF Test Set

STEP	PROCEDURE						
1	<p>To measure the in-service frequency of 40-MHz oscillator, connect test arrangement as shown in Fig. 1.</p> <div style="text-align: center; margin: 20px 0;"> <pre> graph LR     FC[FREQUENCY COUNTER] -- INPUT A --- C[9105-6 CORD]     C --- OSC_MON[OSC MON]     OSC_MON --- SO[SHIFT OSC]                     </pre> </div> <p style="text-align: center;"><b>COUNTER CONTROL SETTINGS</b></p> <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">CONTROL</th> <th style="width: 50%;">POSITION</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">ATTENUATOR</td> <td style="text-align: center;">X1</td> </tr> <tr> <td style="text-align: center;">RESOLUTION</td> <td style="text-align: center;">1</td> </tr> </tbody> </table> <p style="text-align: center; margin-top: 20px;"><b>Arrangement for Measuring In-Service Frequency 40-MHz Oscillator Fig. 1</b></p>	CONTROL	POSITION	ATTENUATOR	X1	RESOLUTION	1
CONTROL	POSITION						
ATTENUATOR	X1						
RESOLUTION	1						

SECTION 411-500-501PT  
APPENDIX 2

STEP	PROCEDURE
2	<p>Observe Frequency on Counter.</p> <p><i>Requirement: 40 MHz ±400 Hz (limits: 39,999,600 to 40,000,400 Hz).</i></p> <p>If unable to meet the requirement, refer to Section 411-502-500, Common Equipment Tests — Preliminary Checks.</p> <p><i>Caution: Under no circumstances should the frequency of the 40-MHz oscillator be adjusted while the bay is in-service. The 40-MHz oscillator may become disabled if the FREQ control is adjusted.</i></p>