

**TYPE O AND ON CARRIER TELEPHONE SYSTEMS — TERMINALS AND JUNCTIONS**  
**GROUP UNIT LINE-UP — TRANSMITTING**  
**ADJUSTMENT OF 76 KC LEVEL CONTROL OSCILLATOR OUTPUT**

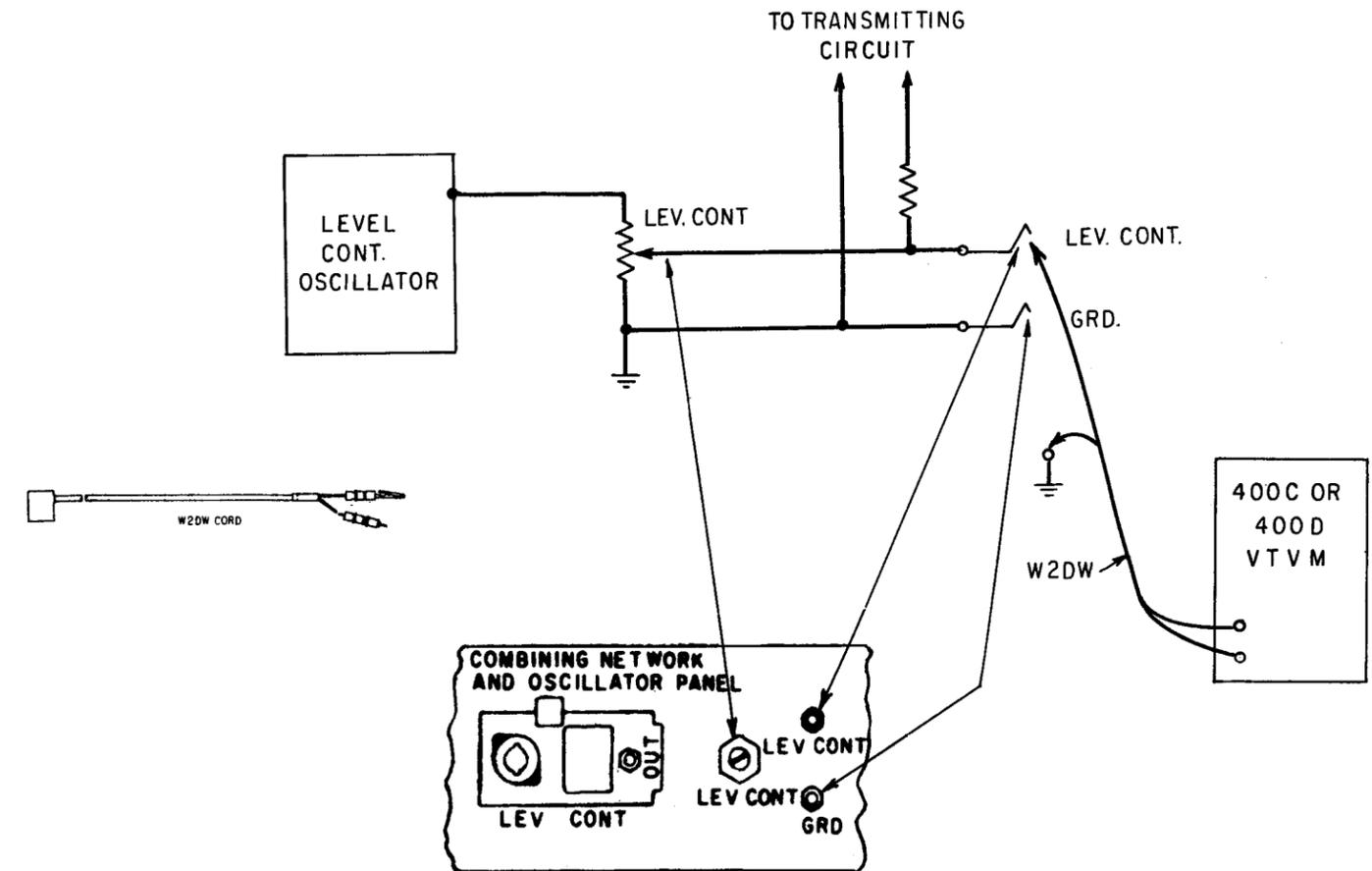
The 76 kc level control oscillator is used when an ON system is not fully equipped. The output of the oscillator is adjusted to simulate the power of the missing carriers to maintain the correct output level for the following ON and N repeaters. The LEV CONT potentiometer permits the adjustment of the output of the control oscillator to the value required by the number of ON groups equipped.

The purpose of this test is to measure the output of the level control oscillator and adjust if necessary the oscillator output to meet the requirement.

**APPARATUS:**

- 1 — Hewlett-Packard Model 400C or D Vacuum Tube Voltmeter
- 1 — W2DW Cord (used to connect VTVM to test points)

STEP	PROCEDURE															
1	Connect the 400C or D VTVM to the LEV CONT jack located on the combining network and oscillator panel.															
2	Measure the 76 kc output. <i>Requirements:</i>															
	<b>ON1</b>															
	<table border="1"> <thead> <tr> <th>GROUPS EQUIPPED</th> <th>TEST</th> <th>READJUST</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>+3.8 to +4.7 db</td> <td>+4.2 db</td> </tr> <tr> <td>1,2</td> <td>+1.8 to +2.7 db</td> <td>+2.2 db</td> </tr> <tr> <td>1,2,3</td> <td>+0.3 to +1.2 db</td> <td>+0.8 db</td> </tr> <tr> <td>1,2,3,5</td> <td>-2.8 to -1.9 db</td> <td>-2.4 db</td> </tr> </tbody> </table>	GROUPS EQUIPPED	TEST	READJUST	1	+3.8 to +4.7 db	+4.2 db	1,2	+1.8 to +2.7 db	+2.2 db	1,2,3	+0.3 to +1.2 db	+0.8 db	1,2,3,5	-2.8 to -1.9 db	-2.4 db
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1,2,3	+0.3 to +1.2 db	+0.8 db														
1,2,3,5	-2.8 to -1.9 db	-2.4 db														
	<b>ON2</b>															
	<table border="1"> <tbody> <tr> <td>1</td> <td>+4.9 to +5.8 db</td> <td>+5.3 db</td> </tr> <tr> <td>1,2</td> <td>+3.3 to +4.2 db</td> <td>+3.8 db</td> </tr> <tr> <td>1,2,3</td> <td>+2.4 to +3.3 db</td> <td>+2.9 db</td> </tr> <tr> <td>1,2,3,6</td> <td>+0.4 to +1.3 db</td> <td>+0.8 db</td> </tr> <tr> <td>1,2,3,6,5</td> <td>-2.6 to -1.7 db</td> <td>-2.2 db</td> </tr> </tbody> </table>	1	+4.9 to +5.8 db	+5.3 db	1,2	+3.3 to +4.2 db	+3.8 db	1,2,3	+2.4 to +3.3 db	+2.9 db	1,2,3,6	+0.4 to +1.3 db	+0.8 db	1,2,3,6,5	-2.6 to -1.7 db	-2.2 db
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3	Adjust the LEV CONT potentiometer to meet the requirement.															
4	Remove test connections.															



**Adjustment of 76 KC  
Oscillator Output**