

L MULTIPLEX TERMINALS
LMX-2
CARRIER AND PILOT SUPPLY
GROUP CARRIER
GROUP SECONDARY DISTRIBUTION CIRCUIT TEST

PURPOSE OF TEST

To measure and, if necessary, adjust the output power of each group carrier frequency in the J68857G group secondary distribution unit (see Fig. 1).

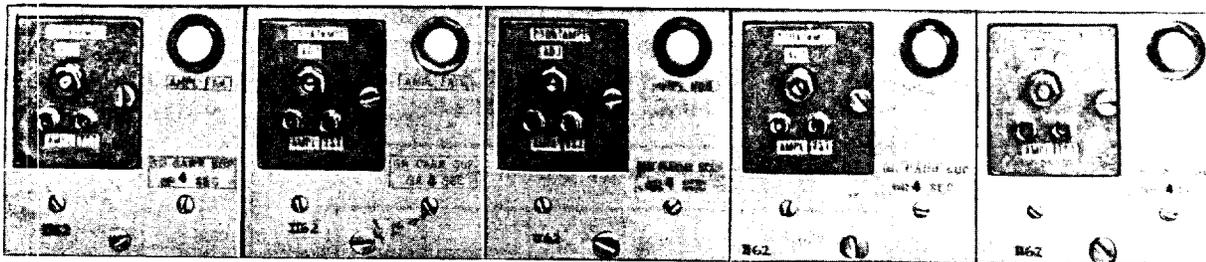


Fig. 1—J68857G Secondary Group Distribution Unit—Front View

REASON FOR ISSUE

The information in this section was previously in Section 356-251-503. It is updated and renumbered in the process of reorganizing the 356- division of practices. *Equipment Test Lists are affected.*

SYNOPSIS

The J68857G group secondary distribution unit provides amplification and distribution of the five group carrier frequencies. The unit contains five plug-in distribution modules, each consisting of a plug-in 230A amplifier, alarm circuit, and a 16-tap distribution bus. A panel lamp (when lighted) on each distribution module indicates a failure. The distribution bus distributes the five carrier frequencies to group modulators in the transmitting or receiving bay being served.

A spare 230A amplifier with its own alarm circuit is mounted in the J68857E group harmonic generator unit (see Section 356-265-502).

APPARATUS:

The test in this section requires a *34A TMS, or suitable receiving test equipment* per Section 356-010-500, capable of detecting from 75-ohm circuits signals between 420 and 612 kHz at 0.0 dBm.

In addition to the above, the following is required:

P2BJ Cord

| STEP | PROCEDURE | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|-----|-----|-----|--|--|----------------------------|--|--|--|--|--|-------|---|---|---|---|---|--------------------|-----|-----|-----|-----|-----|
| 1 | <p><i>Caution: Service interruption will occur with removal of a 230A amplifier or a group secondary distribution module.</i></p> <p>Prepare the receiving test equipment for a 75-ohm terminated measurement of the group carrier frequency to be tested, as indicated in Table A, at 0.0 dBm.</p> <p style="text-align: center;">TABLE A</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="6" style="text-align: center;">LMX TRANSMITTING OR RECEIVING BAY MISC TEST JACK FIELD</th> </tr> <tr> <th colspan="6" style="text-align: center;">GR CARR SEC DIST TST JACKS</th> </tr> <tr> <th style="text-align: center;">GROUP</th> <th style="text-align: center;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> <th style="text-align: center;">4</th> <th style="text-align: center;">5</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">FREQUENCY (KHZ)</td> <td style="text-align: center;">420</td> <td style="text-align: center;">468</td> <td style="text-align: center;">516</td> <td style="text-align: center;">564</td> <td style="text-align: center;">612</td> </tr> </tbody> </table> | LMX TRANSMITTING OR RECEIVING BAY MISC TEST JACK FIELD | | | | | | GR CARR SEC DIST TST JACKS | | | | | | GROUP | 1 | 2 | 3 | 4 | 5 | FREQUENCY (KHZ) | 420 | 468 | 516 | 564 | 612 |
| LMX TRANSMITTING OR RECEIVING BAY MISC TEST JACK FIELD | | | | | | | | | | | | | | | | | | | | | | | | | |
| GR CARR SEC DIST TST JACKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| GROUP | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | |
| FREQUENCY (KHZ) | 420 | 468 | 516 | 564 | 612 | | | | | | | | | | | | | | | | | | | | |
| 2 | <p>Make patch (1) in Fig. 2 for the frequency to be tested.</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | <p>Measure the power at the test jack.</p> <p>Requirement: 0.0 dBm \pm0.5 dB.</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | <p>If the requirement of Step 3 is met, proceed to Step 5. If it is not met, perform the following steps (in the order listed), as necessary, to meet the requirements:</p> <ul style="list-style-type: none"> (a) Adjust the associated 230A AMPL ADJ control. (b) Check the output signals from the group carrier supply as prescribed in Section 356-265-502. (c) At the J68857F group carrier supply, adjust the associated 232A AMPL ADJ control to meet the requirement of Step 3, but do <i>not</i> exceed the 1.5-dB tolerance prescribed in Section 356-265-502. | | | | | | | | | | | | | | | | | | | | | | | | |

| STEP | PROCEDURE |
|------|---|
| | <p>Note: Verify the correct output power from all associated secondary distribution circuits as prescribed in this section.</p> <p>(d) Replace the associated 230A amplifier and adjust the AMPL ADJ control.</p> <p>(e) Replace the associated group secondary distribution module.</p> |
| 5 | Repeat Steps 1 through 4 for each group carrier frequency to be tested. |
| 6 | Remove patch (1) in Fig. 2. |

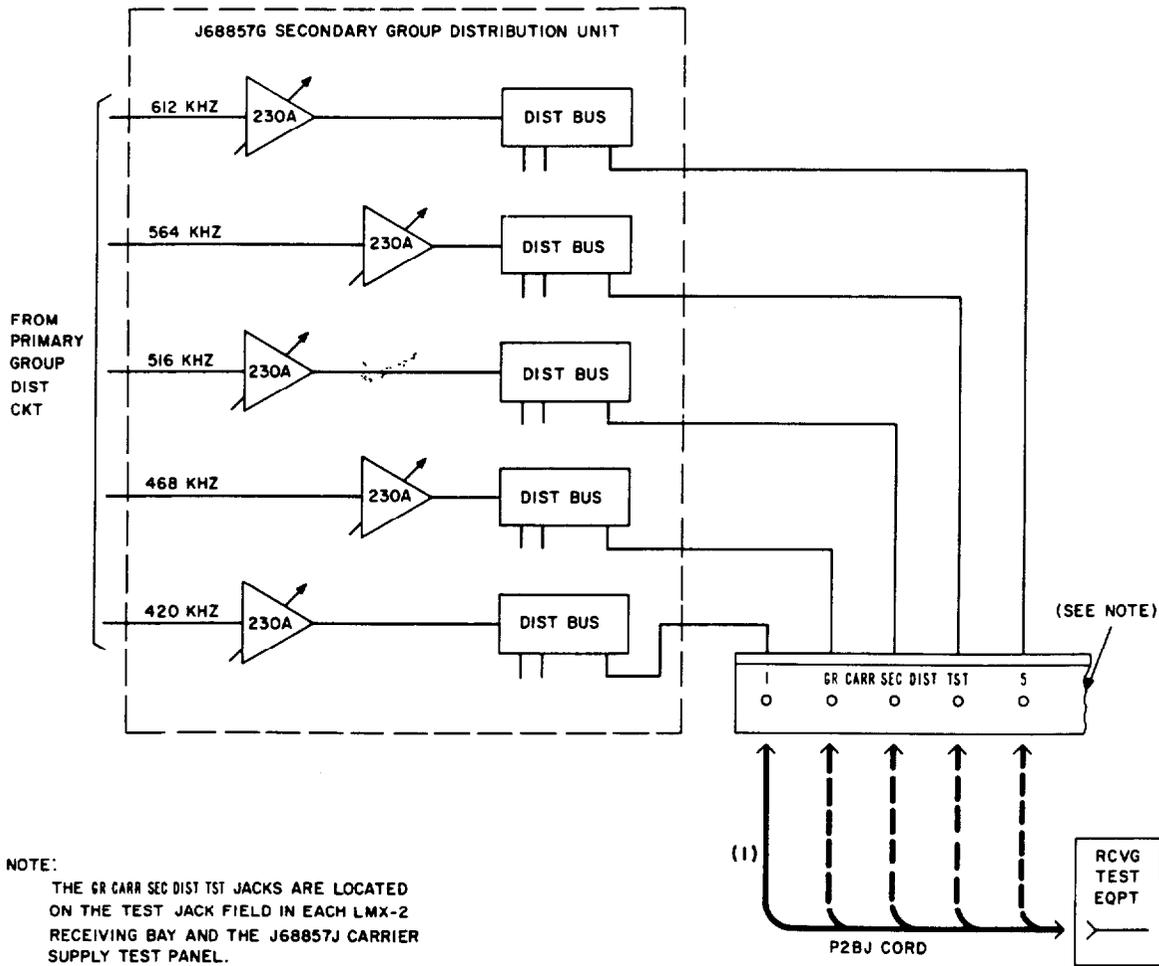


Fig. 2—Group Carrier Supply—Measurement of Secondary Group Distribution Circuit Output Power