

L MULTIPLEX TERMINALS
LMX-2
CARRIER AND PILOT SUPPLY
J68857D AND N INTERMEDIATE FREQUENCY SUPPLIES
OUTPUT POWER TEST

PURPOSE OF TEST

To measure the output power of the J68857() intermediate frequency supply unit (see Fig. 1).

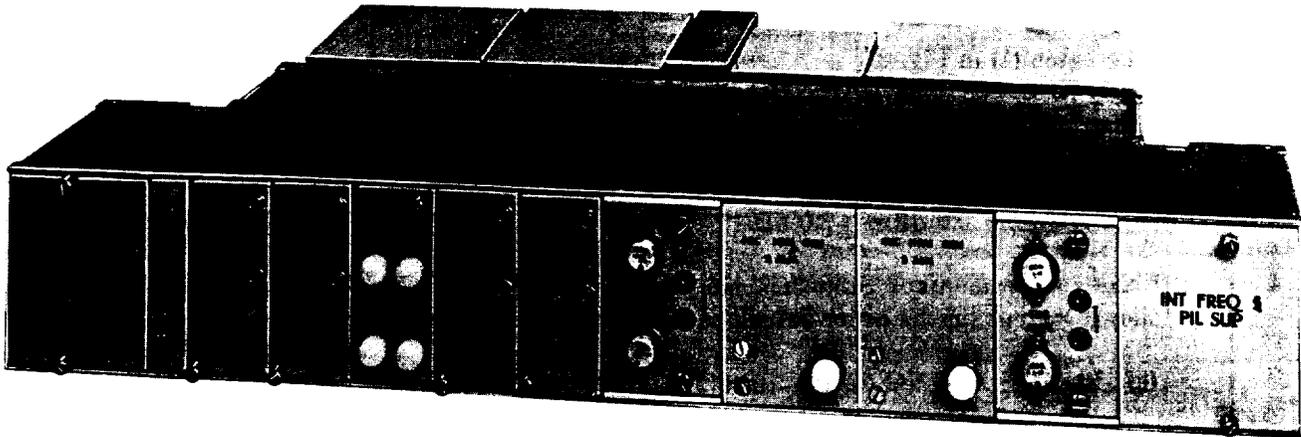


Fig. 1—J68857N Intermediate Frequency Supply Unit—Front View

REASON FOR ISSUE

The information in this section was previously in Section 356-250-502. It is updated and renumbered in the process of reorganizing the 356- division of practices.

Reference to the 92-kHz pilot frequency has been deleted. *Equipment Test Lists are affected.*

SYNOPSIS (SEE FIG. 2)

The J68857N intermediate frequency supply unit receives two 4-kHz input signals from the distribution bus of a primary frequency supply. After amplification, both 4-kHz signals are fed to individual harmonic generators where filters select harmonics of 12, 64, 80, and 124 kHz for distribution to the L1860A pilot and carrier supply circuits. For L600A application, the J68857D intermediate frequency is used and is identical to the J68857N unit, except the 80-kHz provision has been eliminated. To ensure system reliability, two electrically independent amplifiers, harmonic generators, alarm circuits, and filter circuits are provided in each intermediate frequency supply unit.

APPARATUS:

34A TMS or suitable receiving test equipment, per Section 356-010-500, capable of detecting from 135-ohm circuits, a 12-kHz signal at approximately 0.0 dBm.

In addition, the following is required:

3P20B Cord

STEP	PROCEDURE
	<p>Note: Wiring options provide for the measurement of 12 kHz at the carrier supply test panel. If troubleshooting is required at frequencies other than 12 kHz, refer to SD-50105-012, Fig. 16.</p> <p>1 Prepare the RTE (receiving test equipment) for a 135-ohm terminated measurement of 12 kHz at approximately 0.0 dBm.</p> <p>2 Make patch (1) in Fig. 2.</p> <p>3 Measure the 12-kHz output power at the INT FREQ SUP 1 jack on the carrier supply test panel.</p> <p>Requirement: 0.0 dBm \pm2.0 dB.</p> <p>4 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 required, to meet the requirement.</p> <p>(a) Replace the 4 KC AMPL 1 (see Fig. 1) and repeat Step 3.</p> <p>(b) Check the 4-kHz input signals from the primary frequency supply.</p> <p>5 Remove patch (1) in Fig. 2 and make patch (2).</p> <p>6 Measure the 12-kHz output power at the INT FREQ SUP 2 jack on the carrier supply test panel.</p> <p>Requirement: 0.0 dBm \pm2.0 dB.</p> <p>7 If the requirement of Step 6 is met, proceed to Step 8.</p> <p>If it is not met, perform the following steps (in the order listed), as required, to meet the requirement.</p> <p>(a) Replace the 4 KC AMPL 2 and repeat Step 6.</p> <p>(b) Check the 4-kHz input signals from the primary frequency supply.</p> <p>8 Remove patch (2) in Fig. 2.</p>

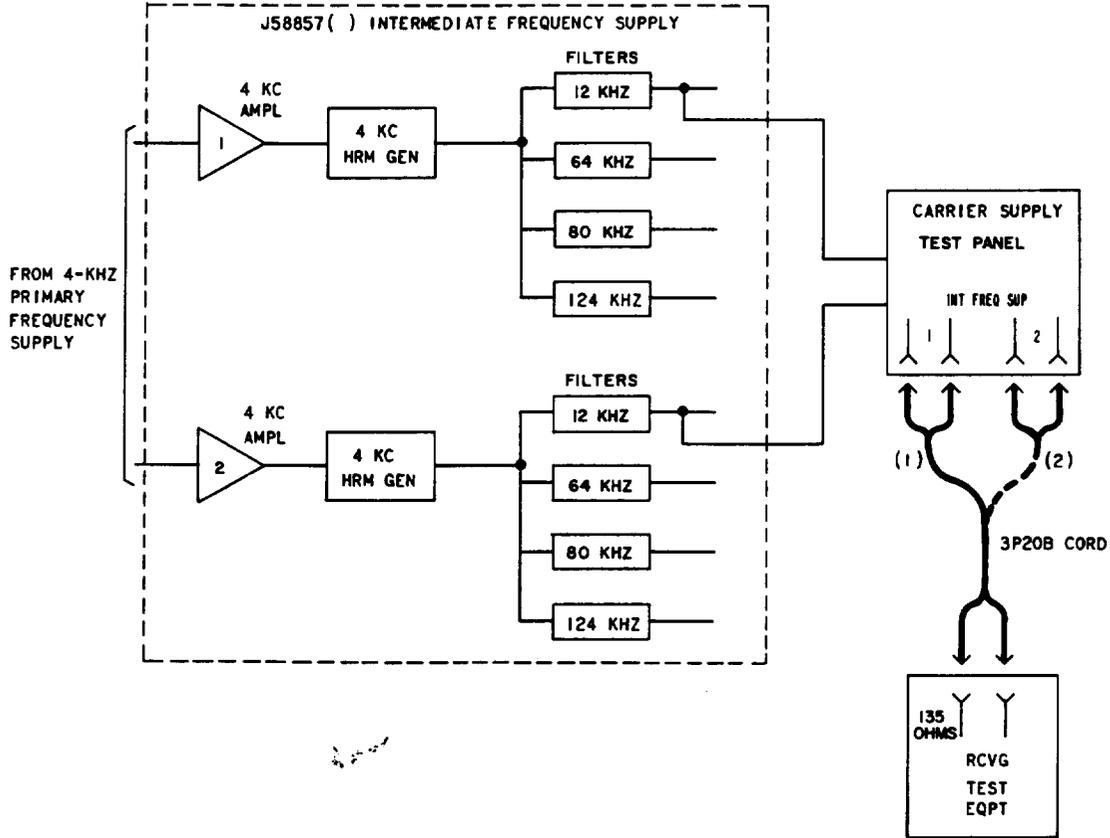


Fig. 2—Intermediate Frequency Supply—Measurement of Output Power