L MULTIPLEX TERMINAL

LMX-2

CARRIER AND PILOT SUPPLY

GROUP CARRIER

GROUP PRIMARY DISTRIBUTION CIRCUIT TEST

PURPOSE OF TEST

To measure and, if necessary, adjust the output power of each carrier frequency in the J68857F group carrier supply (see Fig. 1).

REASON FOR ISSUE

This section is reissued to update Table A and Fig. 2 for the testing of latest equipment configurations.

SYNOPSIS

The J68857F group carrier supply, (Fig. 1), in addition to containing the J68857E 12-kHz group harmonic generator unit, contains five group carrier plug-in modules. Each module (one per group carrier frequency) contains a filter, a 232A plug-in amplifier, and a distribution bus with nine taps. The distribution bus supplies six group secondary distribution units and an alarm circuit. The spare tap of the distribution bus furnishes a carrier signal to the spare 232A and 230A amplifiers mounted on the J68857E group harmonic generator unit.

A panel lamp on each group carrier distribution module indicates a failure (when lighted).

APPARATUS:

This test 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 a power level of approximately +1.5 dBm.

In addition to the above, the following is required:

P2BJ Cord

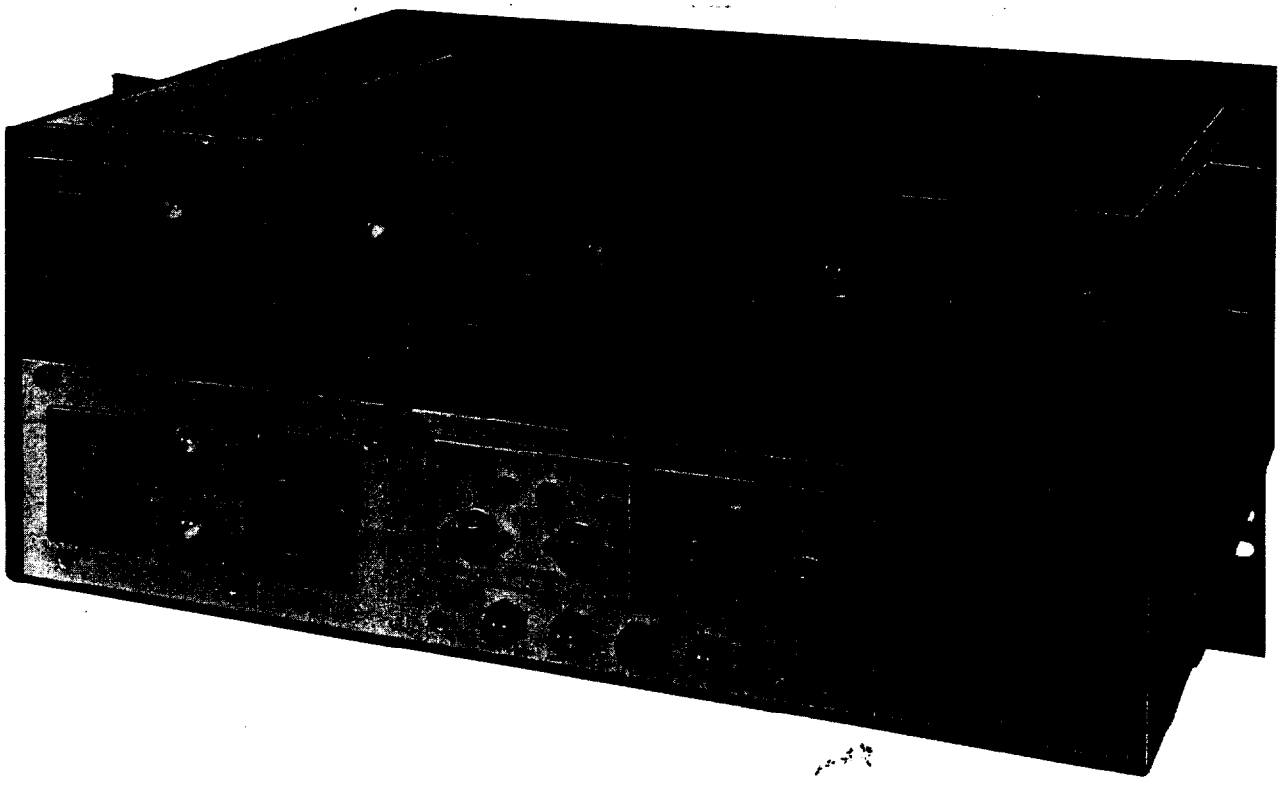

Fig. 1—J68857F Primary Group Carrier Supply—Front View

STEP	PROCEDURE
	Caution: Service interruption will occur with removal of a 232A plug-in amplifier module or a group primary distribution module.
1	Prepare the RTE (receiving test equipment) for a 75-ohm terminated measurement of the group carrier frequency to be tested at a power level of approximately +1.0 dBm.
	Note: The group carrier frequencies are listed in Table A.
2	Identify the equipment carrier test panel in use and refer to Fig. 2.
3	(a) On test panel J68857J( ) connect the RTE to the CARR TST 1 jack [Patch (1) Fig. 2], and set the CARR TST switch for the group frequency under test. See Table A.
	(b) On test panel ED-51994-30( ), connect the RTE to the G( ) test jack [Patch (2) Fig. 2] for the group frequency under test. See Table A.
4	Measure the power at the test jack.
	Requirement: 1.5 dBm ±1.5 dB

STEP	PROCEDURE
5	If the requirement of Step 4 is met, proceed to Step 6. If it is not met, perform the following steps (in the order listed), as necessary, to meet the requirement. (a) Adjust the associated 232A AMPL ADJ control. (b) Check the input signals from the 12-kHz harmonic generator as prescribed in Section 356-265-501. (c) Replace the associated 232A amplifier. (d) Replace the associated group primary carrier distribution module.
6	Repeat Steps 1 through 5 for each group carrier frequency to be tested.
7	Remove P2BJ patch cord in Fig. 2.
8	At J68857J carrier supply test panel, set the CARR TST switch to the OFF position.

TABLE A

PRIMARY GROUP CARRIER FREQUENCIES

GROUP	FREQUENCY (KHZ)	CARRIER SUPPLY TEST PANEL							
		L600A (OLD)		L600A (NEW)		L1860A (OLD)		L1860A (NEW)	
		CARR TST SWITCH POSITION	TEST JACK	CARR TST SWITCH POSITION	TEST JACK	CARR TST SWITCH POSITION	TEST JACK	PRI & SEC GROUP TEST PANEL	TEST JACK
1	420	Group 1	CARR TST	Group NO 1	CARR TST 1	Group NO 1	CARR TST 1	PRI	G1
2	468	Group 2	CARR TST	Group NO 2	CARR TST 1	Group NO 2	CARR TST 1	PRI	G2
3	516	Group 3	CARR TST	Group NO 3	CARR TST 1	Group NO 3	CARR TST 1	PRI	G3
4	564	Group 4	CARR TST	Group NO 4	CARR TST 1	Group NO 4	CARR TST 1	PRI	G4
5	612	Group 5	CARR TST	Group NO 5	CARR TST 1	Group NO 5	CARR TST 1	PRI	G5

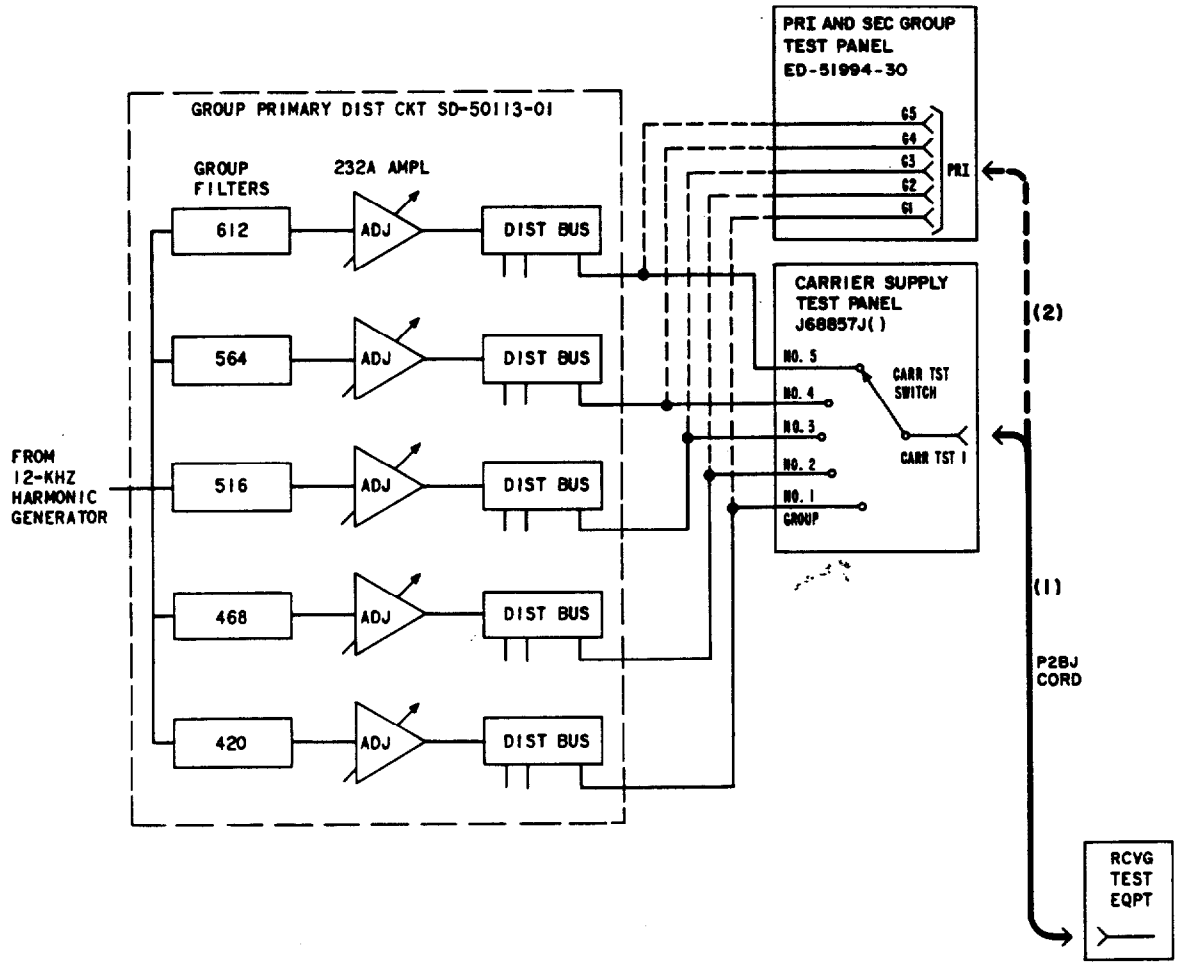

Fig. 2—Group Carrier Supply—Measurement of Group Primary Distribution Circuit Output Power