

Fig. 1 - Jack Arrangement at Output of Receiving Group Unit

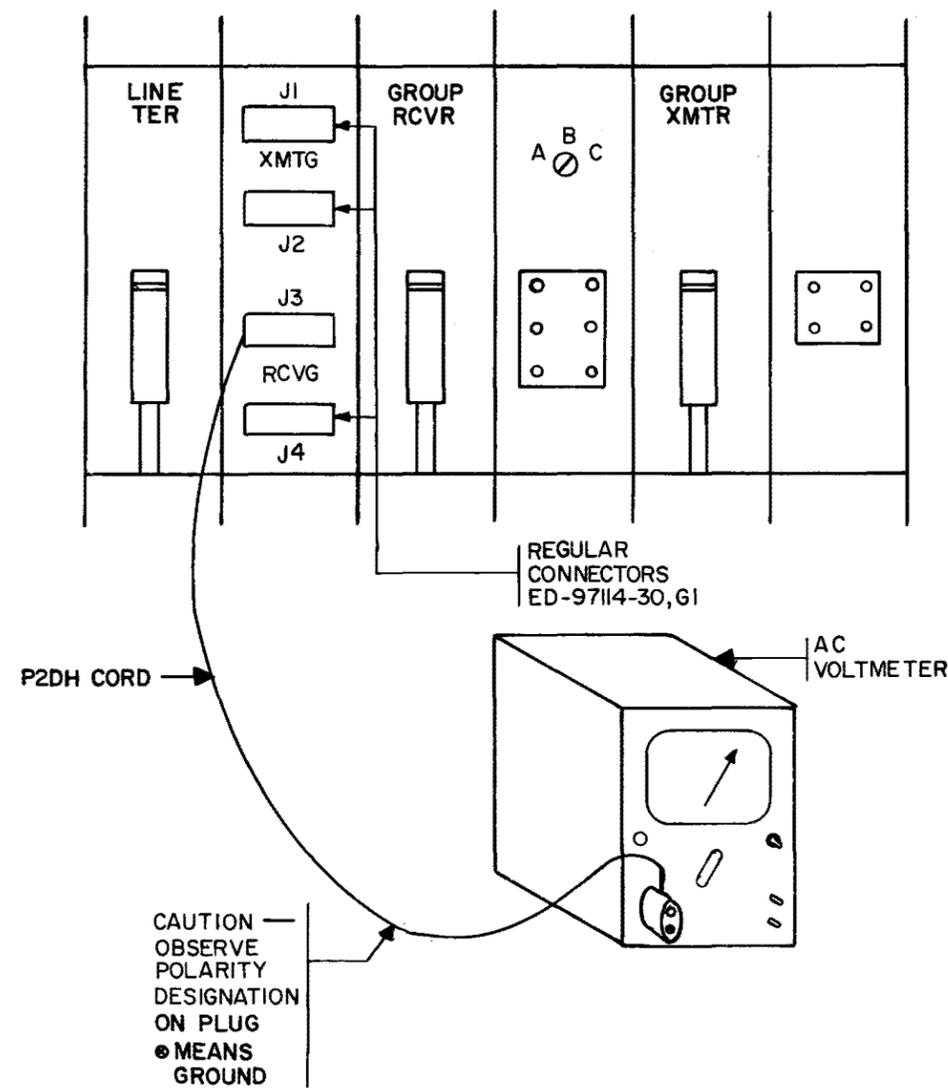


Fig. 2 - Test Setup

**TYPE N2 CARRIER TELEPHONE
TRANSMITTING AND RECEIVING GROUP UNITS
TOTAL CARRIER POWER OUTPUT — RECEIVING**

The channel carrier frequencies generated at the distant transmitting terminal are received at the line terminating unit, amplified and regulated by the group receiving unit, and fed through the line terminating unit into the channel units.

The purpose of this test is to measure the total carrier power output of the receiving group unit.

A bridged measurement at this point is as accurate as a terminated measurement; therefore, only a bridged measurement will be described. This measurement may be made on an in-service basis.

A schematic of the jack arrangement at the output of the receiving group unit when making this measurement is shown in Fig. 1. Care must be taken when connecting the voltmeter to observe the polarity designation on the P2DH cord plug. Reversing the plug will ground and short out the received signal.

When measuring on working systems, caution should be exercised to avoid causing hits on systems carrying SAGE, telegraph, or other data transmissions.

APPARATUS:

Hewlett-Packard 400-type Vacuum Tube Voltmeter (VTVM), or equivalent *average reading* ac voltmeter, calibrated such that 0.775 volt (1 mw into 600 ohms) reads zero db.

P2DH Cord (9-pin plug to banana plug)

STEP	PROCEDURE
1	Check that both connectors are in J3 and J4.
2	Remove the connector from J3, and connect the VTVM using the P2DH cord as shown in Fig. 2. <i>Caution: Note polarity designation on banana plug.</i>
3	Set the range switch on the voltmeter to obtain the maximum on-scale reading. <i>Requirement: Meter reading shall equal -13 ± 2.5 db (corresponds to actual power of -3 ± 2.5 dbm into 75 ohms).</i>
4	Remove the P2DH cord and replace the connector in the switching jack J3.

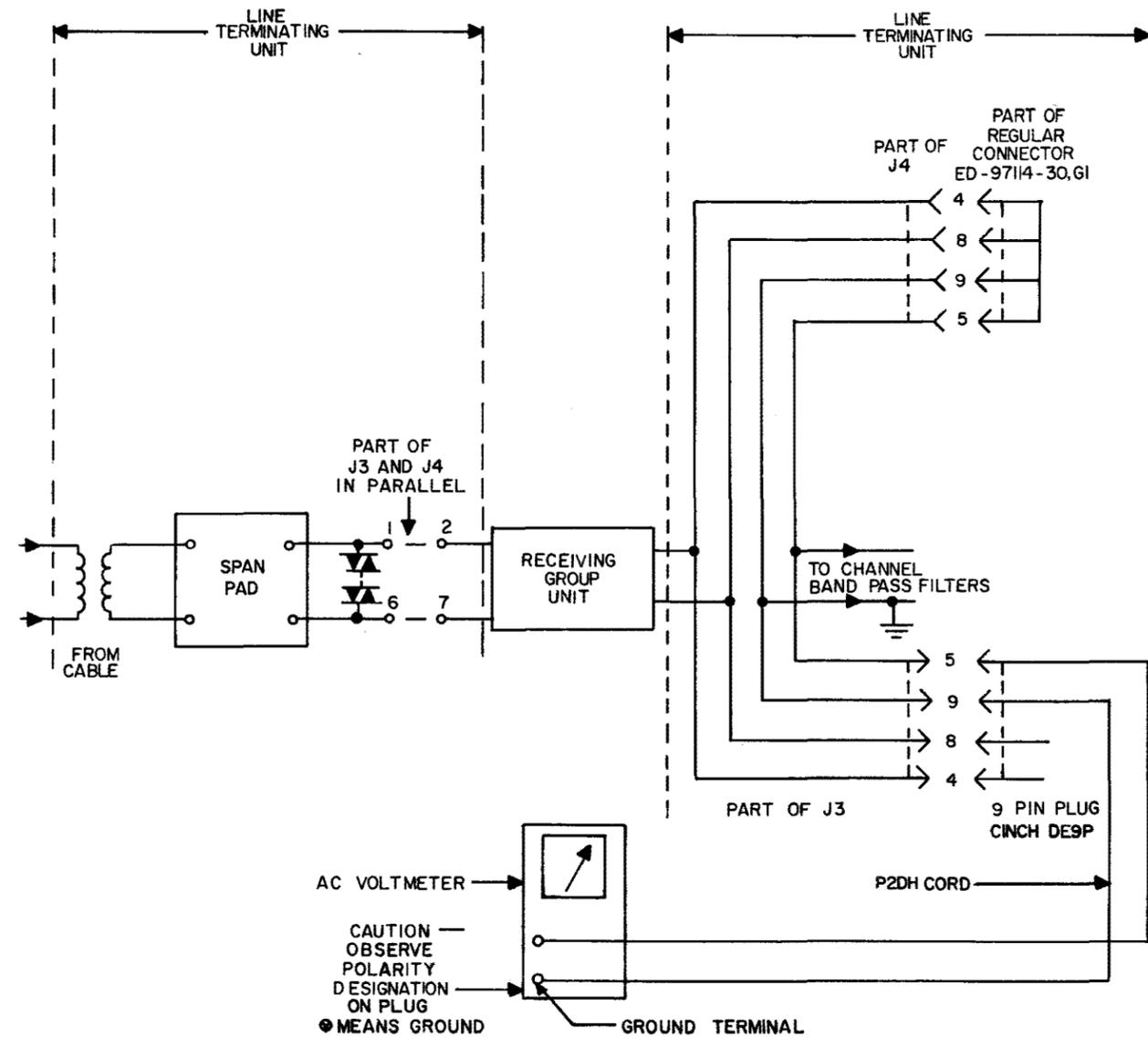


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