L MULTIPLEX TERMINALS
COMMON EQUIPMENT
J68918 SCANNER, TEST, AND ALARM EQUIPMENT
SUPERGROUP PILOT MEASURING CIRCUIT CALIBRATION

This section provides a procedure for calibrating the SUPERGROUP LEVEL meter.

The pilot level and gain measuring panel of the scanner includes a test frequency supply circuit which permits calibrating the pilot level measuring circuit. The pilot level measuring circuit is so selective that it is impractical to calibrate using a test signal from sending test equipment.

Calibration of the pilot level measuring circuit is performed by first adjusting the power of the 315.92-kHz test signal at the SG CAL jack. The gain of the pilot measuring circuit is then adjusted to obtain the proper indication on the SUPERGROUP LEVEL meter of the scanner meter assembly.

This section is reissued to include significant information extracted from the J68918 procedure in Section 356-012-505, Issue 2. ***Equipment Test Lists are not affected.*** Due to extensive changes, arrows are not used.

APPARATUS

Receiving Test Equipment (RTE) (Section 356-010-500)

Frequency: 315.92 kHz

Power: −48.2 dBm

Impedance: 75 ohms, unbalanced

P2BJ Cords (for 75-ohm patches)

19A Pad (1-dB loss)

STEP	PROCEDURE
1	Adjust the RTE as follows: Impedance: 75 ohms, unbalanced Frequency: 315.92 kHz Power: −48.2 dBm

STEP	PROCEDURE

2 Connect the RTE to the SG CAL jack [patch (1), Fig. 1)].

3 Measure the 315.92-kHz signal power at the SG CAL jack.

Requirement: −48.2 dBm ±0.05 dB

4 If the requirement of Step 3 is ***not*** met, adjust the CAL ADJ control (on the SG PIL MEAS panel) for −48.2 dBm at the SG CAL jack.

5 Remove patch (1), Fig. 1.

6 Remove the patch plug between the SG DEM OUT B and SG MEAS jacks and insert this patch plug between the SG CAL and SG MEAS jacks. [patch (2), Fig. 1].

7 Read the SUPERGROUP LEVEL meter indication.

Requirement: 0 ±0.0 dB

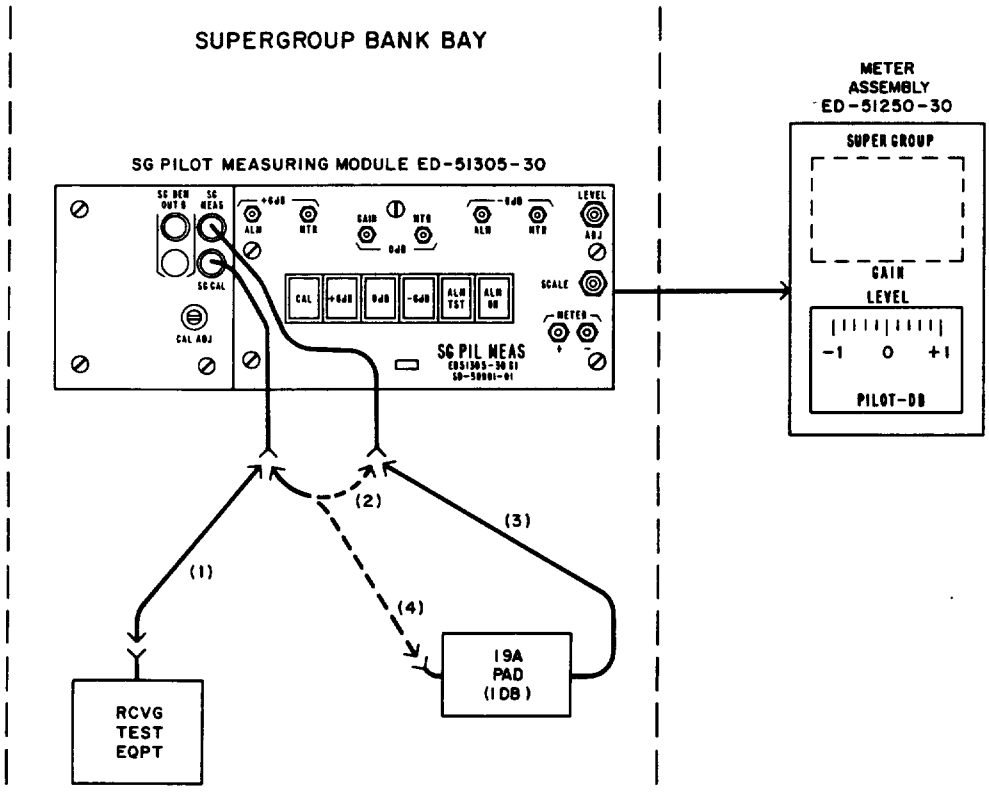

Fig. 1—315.92 kHz Pilot Measuring Circuit Calibration For J68918 Scanner

STEP	PROCEDURE
8	If the requirement of Step 7 is ***not*** met, adjust the LEVEL ADJ control (on the SG PIL MEAS panel) to meet the requirement.
9	Remove the patch plug from between the SG CAL and SG MEAS jacks.
10	(a) Connect the 1-dB pad between the SG CAL and SG MEAS jack [patches (3) and (4), Fig. 1]. or (b) Readjust the CAL ADJ control to obtain −49.2 dBm at the SG CAL jack and then replace the patch plug between the SG CAL and SG MEAS jacks. ***Note:*** The 315.92-kHz signal applied to the SG MEAS jack is 1 dB below nominal at this time.
11	Read the SUPERGROUP LEVEL meter indication. ***Requirement:*** -1.0 ± 0.0 dB
12	If the requirement of Step 11 is ***not*** met, adjust the SCALE control (on the SG PIL MEAS panel) to meet the requirement.
13	If Step 10(a) was performed, (a) Remove the 1-dB pad from between the SG CAL and SG MEAS jacks. (b) Insert the patch plug between the SG CAL and SG MEAS jacks.
14	Repeat Steps 1 through 13 until the requirements of Steps 7 and 11 are met. ***Note:*** There is interaction between the LEVEL ADJ and SCALE controls.
15	Remove all test connections.
16	Replace the patch plug between the SG DEM OUT B and SG MEAS jacks.