
L MULTIPLEX TERMINALS
COMMON EQUIPMENT
J68918 SCANNER, TEST, AND ALARM EQUIPMENT
GAIN MEASUREMENT AND END-OF-RANGE ALARM FUNCTION

This section provides procedures for calibrating the SUPERGROUP GAIN meter, for setting the end-of-range (EOR) alarm threshold, and for testing the alarm circuit.

This section is reissued to correct the gain adjustment procedure and to make minor corrections. Arrows are used to indicate significant changes. *Equipment Test Lists are not affected.*

APPARATUS

Volt-ohm-milliammeter (VOM), such as KS-14510, List 5, or dc voltmeter capable of measuring 6 volts with an accuracy of ± 0.1 volt

STEP

PROCEDURE

Note: If any requirement in this section cannot be met, remove the pilot level and gain measuring panel and insert a spare. Visually inspect the defective panel to determine if the trouble can be located and cleared. If not, send the panel to a repair center.

- 1 On the scanner control panel, press the MAN pushbutton.

◆ *SUPERGROUP GAIN Meter* ◆

- 2 Set the VOM to the 12-volt dc scale and connect the VOM leads to the METER pin jacks on the pilot level and gain measuring panel (Fig. 1).

Note: Connect the VOM black lead to the - jack and the VOM red lead to the + jack.

- 3 Press the 0dB pushbutton. Then press and hold the CAL pushbutton.

Requirement: An indication of 6 volts dc on the VOM

- 4 ◆ If the requirement of Step 3 is *not* met, adjust the 0dB GAIN control to meet the requirement.

- 5 Observe the SUPERGROUP GAIN meter indication.

Requirement: 0 dB

STEP

PROCEDURE

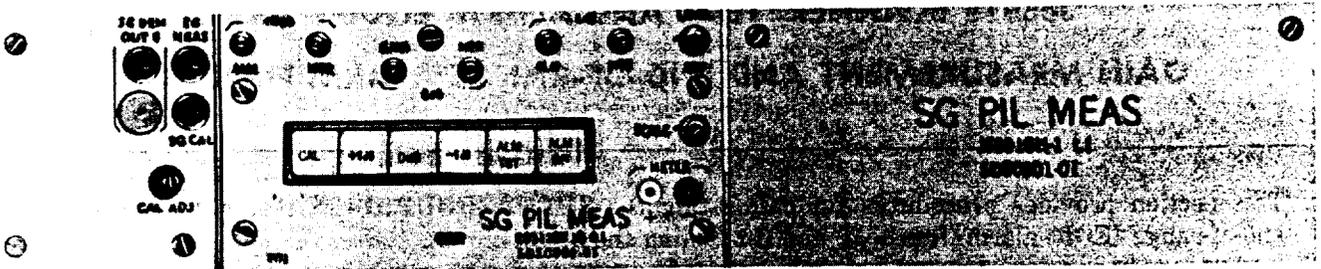


Fig. 1—Pilot Level and Gain Measuring Panel

6 If the requirement of Step 5 is *not* met, adjust the 0dB MTR control to meet the requirement.

7 Repeat Steps 3 through 6 until the requirements of Steps 3 and 5 are met.

Note: There is some interaction between the 0dB GAIN and 0dB MTR controls.

8 Remove the VOM leads from the METER pin jacks.

9 Press the +6dB pushbutton.

10 Press and hold the CAL pushbutton. Then observe the SUPERGROUP GAIN meter.

Note: If the EOR alarm is activated, turn the +6dB ALM control counterclockwise. Then press the ACO and ACO RLS pushbuttons on the scanner control panel to reset the alarm.

Requirement: An indication of 6-dB HIGH GAIN (full scale to left) on the SUPERGROUP GAIN meter

11 If the requirement of Step 10 is *not* met, adjust the +6dB MTR control to meet the requirement.

12 Press the -6dB pushbutton.

13 Press and hold the CAL pushbutton. Then observe the SUPERGROUP GAIN meter.

Note: If the EOR alarm is activated, turn the -6dB ALM control counterclockwise. Then press the ACO and ACO RLS pushbuttons on the scanner control panel to reset the alarm.

Requirement: An indication of 6-dB LOW GAIN (full scale to right) on the SUPERGROUP GAIN meter

STEP	PROCEDURE
14	If the requirement of Step 13 is <i>not</i> met, adjust the -6dB MTR control to meet the requirement.
15	Repeat Steps 9 through 14 until the requirements of Steps 10 and 13 are met. <i>Note:</i> There is some interaction between the $+6\text{dB}$ MTR and -6dB MTR controls.
	◆End of Range◆
16	Press the $+6\text{dB}$ pushbutton.
17	Press and hold the CAL pushbutton. Then adjust the $+6\text{dB}$ ALM control until the ALM ON pushbutton just lights.
18	Press the -6dB pushbutton.
19	Press and hold the CAL pushbutton. Then adjust the -6dB ALM control until the ALM ON pushbutton just lights.
	◆Alarm Circuit◆
20	Press the ALM TST pushbutton and hold depressed for at least 2 seconds. <i>Requirement:</i> ◆(a) On the scanner control panel, the RST () pushbutton corresponding with the operated BK () pushbutton lights. (b) The bay summary RANGE lamp lights. (c) The office minor alarms operate.◆
21	On the scanner control panel, press the ACO and ACO RLS pushbuttons and the lighted EOR RST () pushbutton.
22	On the scanner control panel, press the AUTO pushbutton to restore the scanner to normal operation.
