

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR
OSCILLOSCOPE
AN/USM-254 AND OS-185/U
(NSN 6625-00-069-5477)
(HEWLETT-PACKARD MODELS 130C AND 130 CR)

Headquarters, Department of the Army, Washington, DC
5 September 1978

TB 11-6625-1615-35, 13 February 1975, is changed as follows:

The title of the bulletin is changed as shown above.

Page 1. Table of contents, Section IV, line 5. The following is added after line 5. Vertical amplifier response (C-level only)13.1 10.

Page 2. Paragraph 3, lines 7 and 8. Lines 7 and 8 are superseded as follows: US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-MA-Q, Fort Monmouth, NJ, 07703.

Page 3. Paragraph 5, line 4. "4931-621-7877" is changed to read: 6695-00-621-7877, and in line 7, "4940-454-8710" is changed to read: 4940-00-454-8710.

Paragraph 6a, line 3. "4931-621-7877" is changed to read: 6695-00-621-7877.

Subparagraph 6b, line 3. "4940-454-8710" is changed to read: 4940-00-454-8710.

Page 4. Table 2, item A7, line 1. "Range: 0 to 3000 kHz" is changed to read: Range: 0 to 3000 Volts.

Table 3, item B6, line 1 in the description column. "AEG" is changed to read: AWG.

Page 7. Figure 2, lower left corner. "C17" is changed to read: C11. "C11" is changed to read: C17.

Page 10. The following paragraph is added after paragraph 13.

13.1. Vertical Amplifier Response (C-Level Only).

a. Performance Check.

(1) Connect test instrument VERTICAL input to square wave generator (A10) output with cable assembly and termination provided, and adapter (B1).

(2) Position test instrument controls as follows:

(a) VERTICAL SENSITIVITY switch to .2 VOLTS/CM.

(b) VERTICAL VERNIER control to CAL.

(c) SWEEP TIME switch to 5 u SECONDS/ CM.

(3) Adjust square wave generator for 50 kHz and test instrument CRT display of 8 cm p-p.

(4) Test instrument CRT displays square wave with minimum risetime and no overshoot.

(5) Set test instrument VERTICAL SENSITIVITY switch to .5 VOLTS/CM.

(6) Adjust square wave generator for 50 kHz and test instrument CRT display of 8 cm p-p.

(7) Test Instrument CRT displays square wave with minimum risetime and no overshoot.

(8) Set test instrument VERTICAL SENSITIVITY switch to 5 VOLTS/CM.

(9) Adjust square wave generator for 50 kHz and test instrument CRT display of 3 cm p-p.

(10) Test instrument displays square wave with minimum risetime and no overshoot.

b. Adjustments.

(1) Set test instrument VERTICAL SENSITIVITY switch to settings listed in table 5.1. At each setting adjust square wave generator for 50 kHz and test instrument CRT display listed. Adjust test instrument adjustments for minimum risetime and no overshoot.

(2) Reconnect test instrument ground strap at VERTICAL input terminal.

Table 5.1. Vertical Amplifier Response Adjustments

Test Instrument		
VERTICAL SENSITIVITY switch setting (VOLT/CM)	CRT Display cm p-p	Adjustment
.2	8	C 48 (Fig. 1) (R) C 49 (Fig. 1) (R)
.5	8	C 17 (Fig. 2) (R) *C 18 (Fig. 2) (R)
5	8	C 11 (Fig. 2) (R) *C 12 (Fig. 2) (R)

*Remove test instrument ground strap at VERTICAL input terminal and connect square wave generator between center terminal and ground.

Page 16. Table 10, lines 1 and 2, adjustment column. "R468" is changed to read: R468(R) and "R447" is changed to read: R447 (R).

Table 10, line 5. The -2850 volt check is deleted entirely.

By Order of the Secretary of the Army:

Official:

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Chief of Staff

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The Adjutant General

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