

***TB 11-6625-2713-50**

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR OSCILLOSCOPE AN/USM-296A (NSN 6625-00-115-9201)

Headquarters, Department of the Army, Washington, DC
29 December 1978

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		Paragraph	Page
SECTION	I.	IDENTIFICATION AND DESCRIPTION	
		Test instrument identification.....	1
		Calibration data card, DA Form 2416.....	2
		Calibration description	3
	II.	EQUIPMENT REQUIREMENTS	
		Equipment required	4
		Accessories required	5
	III.	PRELIMINARY OPERATIONS	
		Preliminary instructions	6
		Equipment Setup	7
	IV.	CALIBRATION PROCESS	
		Intensity limit, astigmatism, and trace alignment	8
		Dc balance.....	9
		Channels 1 and 2 gain	10
		Vertical position.....	11
		Attenuator and input capacitance.....	12
		X5 gain.....	13
		Risetime	14
		Triggering	15
		Horizontal sweep	16

*This technical bulletin supersedes TB 11-6625-2713-50, 3 February 1977.

	Paragraph	Page
Horizontal bandwidth.....	17	
Sweep length	18	
Sweep calibration	19	
Sweep delay	20	
Power supply	21	
Final procedure.....	22	21

SECTION I IDENTIFICATION AND DESCRIPTION

1. Test Instrument Identification. This bulletin provides instructions for the calibration of Oscilloscope AN/USM-296A and is to be used by calibration personnel. The manufacturer's manual was used as the prime data source in compiling these instructions. The above equipment will be referred to as the "TI" (test instrument) throughout the bulletin.

a. Model Variations. None.

b. Time and Technique. The time required for this calibration is approximately 6 hours, using the dc and low frequency technique.

2. Calibration Data Card, DA Form 2416

a. Forms, records, and reports required for calibration personnel at all levels are prescribed by TB 750-25. DA Form 2416 (Calibration Data Card) must be annotated in accordance with TB 750-25 for each calibration performed.

b. Adjustments to be reported on DA Form 2416 are designated (R) at the end of the sentence in which they appear tables, the (R) follows the designated adjustment. Report only those adjustments made and designated with (R).

3. Calibration Description. TI parameters and performance specifications which pertain to this calibration are listed in table 1.

Table 1. Calibration Description

Test Instrument Parameters	Performance Specifications
Calibrator	
Square wave	Duty cycle 50% $\pm$ 5%
Polarity	Positive going with baseline at zero volts
Output voltage	1 v or 0.3 peak to peak $\pm$ 1%
Repetition rate	1 kHz $\pm$ 20%
Risetime	Less than 1 microsecond
Z axis amplifier:	
Sensitivity	2 volts peak to peak
Risetime	70 nanoseconds
Input resistance	5 kohms, approximately