

***TB 9-6625-2324-35**

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR TRUE RMS VOLTMETER JOHN FLUKE, MODELS 8922A AND 8922A/AA

Headquarters, Department of the Army, Washington, DC

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REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

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* This bulletin and TB 9-6625-2325-35 supersede TB 9-6695-258-35, dated 28 August 1995.

SECTION I IDENTIFICATION AND DESCRIPTION

1. Test Instrument Identification. This bulletin provides instructions for the calibration of True RMS Voltmeter, John Fluke, Models 8922A and 8922A/AA. The manufacturer's manual was used as the prime data source in compiling these instructions. The equipment being calibrated will be referred to as the TI (test instrument) throughout this bulletin.

a. Model Variations. None.

b. Time and Technique. The time required for this calibration is approximately 2 hours, using the dc and low frequency technique.

2. Forms, Records, and Reports

a. Forms, records and reports required for calibration personnel at all levels are prescribed by TB 750-25.

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

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

Table 1. Calibration Description

Test instrument parameters	Performance specifications							
Ac voltage	Range: 0 to 700 V							
	Accuracy: ± % of voltage reading or (± dB)							
	Frequency ^{1, 2}	Range						
		2 mV	20 mV	200 mV	2 V	20 V	200 V	700 V
	10 to 20 Hz	5 (.5)						
	20 to 50 Hz	3 (.35)	2 (.25)	1 (.15)				
	50 Hz to 10 kHz	2 (.25)	1 (.15)	.5 (.1)				
	10 to 200 kHz	4 (.4)	1 (.15)	.5 (.1)				
	200 kHz to 1 MHz	4 (.4)	2 (.25)	.7 (.15)				
1 to 2 MHz	4 (.4)		3 (.35)			N/A		
2 to 11 MHz	5 (.5)					N/A		

See footnotes at end of table.