

***TB 9-6625-2204-35**

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR TRANSPONDER TEST SET, AN/APM-239A (INCLUDING TRANSPONDER SET TEST SET TS-2681/APM-239A AND MULTIMETER ME-358/APM-239A)

Headquarters, Department of the Army, Washington, DC

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		Paragraph	Page
SECTION	I. IDENTIFICATION AND DESCRIPTION		
	Test instrument identification	1	2
	Forms, records, and reports	2	2
	Calibration description	3	2
	II. EQUIPMENT REQUIREMENTS		
	Equipment required	4	3
	Accessories required	5	3
	III. CALIBRATION PROCESS		
	Preliminary instructions	6	4
	Equipment Setup	7	4
	Meter and output voltage accuracy.....	8	6
	Pulse characteristics	9	7
	Multimeter accuracy	10	8
	Final procedure	11	9

*This bulletin supersedes TB 9-6625-2204-35, dated 24 June 1988, including all changes.

SECTION I IDENTIFICATION AND DESCRIPTION

1. Test Instrument Identification. This bulletin provides instructions for the calibration of Transponder Test Set, AN/APM-239A (including Transponder Set Test Set TS-2681/APM-239A and Multimeter ME-358/APM-239A). TM 116625-842-15 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 specifications which pertain to this calibration are listed in table 1.

Table 1. Calibration Description

Test instrument parameters	Performance specifications
Voltmeter	Range: 0 to 150 V ac 0 to 50 V dc Accuracy: $\pm 4\%$ FS
Ammeter	Range: 0 to 2 A ac 0 to 10 A dc Accuracy: $\pm 4\%$ FS
Pulse characteristics	Amplitude: 5 V ± 0.5 V Width: 0.5 μ s ± 0.05 μ s Rise time: ≤ 0.1 μ s Delay: ≤ 0.25 μ s Negative overshoot: ≤ 1.5 V
Output voltage	Range: 20 V dc Accuracy: ± 1.5 V dc
MULTIMETER	
Dc voltage	Range: 10 to 30 V Accuracy: $\pm 4\%$ FS
Ac voltage	Range: 10 V Accuracy: $\pm 5\%$ FS
Dc current	Range: 5 to 10 mA Accuracy: $\pm 4\%$ FS