

***TB 9-6625-2243-35**

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR MULTIMETER FLUKE, MODELS 73, 73 SERIES III, 75, 75 SERIES II, 75 SERIES III, 77, 77 SERIES II, 77 SERIES III, 77/AN, AND 77/BN

Headquarters, Department of the Army, Washington, DC
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*This bulletin supersedes TB 9-6625-2243-35, dated 3 March 1995.

SECTION I IDENTIFICATION AND DESCRIPTION

1. Test Instrument Identification. This bulletin provides instructions for the calibration of Multimeter, Fluke, Models 73, 73 Series III, 75, 75 Series II, 75 Series III, 77, 77 Series II, 77 Series III, 77/AN, and 77/BN. The manufacturer's manuals were used as the prime data sources in compiling these instructions. The equipment being calibrated will be referred to as the TI (test instrument) throughout this bulletin.

a. Model Variations. Variations among models are described in text and tables.

b. Time and Technique. The time required for each 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. Tables containing TI parameters, performance specifications, and performance checks which pertain to this calibration are listed in table 1.

Table 1. Test Instrument

Models	Tables
73	3
73 Series III	4
75	5
75 Series II	6
75 Series III	7
77	8
77 Series II	9
77 Series III	10
77/AN	11
77/BN	12

SECTION II EQUIPMENT REQUIREMENTS

4. Equipment Required. Table 2 identifies the specific equipment to be used in this calibration procedure. This equipment is issued with Secondary Transfer Calibration Standards Set AN/GSM-286. Alternate items may be used by the calibrating activity. The items selected must be verified to perform satisfactorily prior to use and must bear evidence of current calibration. The equipment must meet or exceed the minimum use specifications listed in table 2. The accuracies listed in table 2 provide a four-to-one ratio between the standard and TI. Where the four-to-one ratio cannot be met, the actual accuracy of the equipment selected is shown in parenthesis.