

TB 9-4931-541-50

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR DIAL INDICATOR CALIBRATOR ITALL MODEL 700

Headquarters, Department of the Army, Washington, DC

2 December 2002

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REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can improve this manual. If you find any mistakes or if you know of a way to improve these procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to Commander, U.S. Army Aviation and Missile Command, ATTN: AMSAM-MMC-MA-NP, Redstone Arsenal, AL 35898-5000. A reply will be furnished to you. You may also provide DA Form 2028 information to AMCOM via e-mail, fax, or the World Wide Web. Our FAX number is: DSN 788-6546 or Commercial 256-842-6546. Our e-mail address is: 2028@redstone.army.mil. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028. For the World Wide Web, use: <https://amcom2028.redstone.army.mil>.

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SECTION I IDENTIFICATION AND DESCRIPTION

1. Test Instrument Identification. This bulletin provides instructions for the calibration of Dial Indicator Calibrator, ITALL Model 700. The manufacturer's instruction manual was used as the prime data source in compiling these instructions. The dial indicators 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 1 hour for each TI using the physical technique.

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

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

Table 1. Calibration Description

Test instrument parameters	Performance specifications
Range	0.0 to 1 in.
Accuracy	± 0.000021 in.

SECTION II EQUIPMENT REQUIREMENT

4. Equipment Required. Table 2 identifies the specific equipment to be used in this calibration procedure. This equipment is issued with Secondary Reference Calibration Standard Set, NSN 4931-00-621-7878. 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.

5. Accessories Required. The accessories used in this calibration procedure are furnished with length gauge (table 2). The following peculiar accessory is also required for this calibration: Gimbaled Fixture, Model 638.

Table 2. Minimum Specifications of Equipment Required.

Common Name	Minimum Use Specifications	Manufacturer, Model and Part Number
LENGTH GAUGE	Range: 0.0 to 1 in. Accuracy: ± 0.000005 in.	CT 2502 (CT 2502)