*TB 9-6625-2268-35

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR DIGITAL MULTIMETER JOHN FLUKE, MODELS 8050A AND 8050A-01

Headquarters, Department of the Army, Washington, DC
15 January 2003

Approved for public release; distribution is unlimited

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. For the World Wide Web, use: https://amcom2028.redstone.army.mil.

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*This bulletin supersedes TB 9-6625-2268-35, dated 20 September 2001.

SECTION I
IDENTIFICATION AND DESCRIPTION

1. Test Instrument Identification. This bulletin provides instructions for the calibration of Digital Multimeter, John Fluke, Models 8050A and 8050A-01. 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. Model 8050A-01 has rechargeable batteries; otherwise, both models are the same.

b. Time and Technique. The time required for this calibration is approximately 1 hour 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. 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

<table>
<tr><td>Test instrument parameters</td><td colspan="6">Performance specifications
(4 1/2 digit display)</td></tr>
<tr><td>Dc voltage</td><td colspan="6">Range: 0 to 1000 V (in 5 ranges)
Accuracy: ±(.03% of reading + 2 digits)</td></tr>
<tr><td rowspan="5">Ac voltage</td><td colspan="6">Range: 0 to 750 V (in 5 ranges)
Frequency: 20 Hz to 50 kHz[1]
Accuracy: ±(% of reading + digits)</td></tr>
<tr><td>Range</td><td colspan="5">Frequency</td></tr>
<tr><td rowspan="2"></td><td>20 Hz</td><td>45 Hz</td><td>1 kHz</td><td>10 kHz</td><td>20 kHz</td><td>50 kHz</td></tr>
<tr><td>200 mV through 200 V</td><td>1.0 + 10</td><td colspan="2">.5 + 10</td><td>1.0 + 10</td><td>5.0 + 30</td></tr>
<tr><td>750 V</td><td colspan="4">NOT SPECIFIED</td></tr>
<tr><td colspan="6"></td></tr>
</table>

See footnotes at end of table.