

***TB 9-4931-413-50**

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR SOUND-LEVEL METER, GENERAL RADIO MODELS 1551-C AND 1565-A

Headquarters, Department of the Army, Washington, DC
25 February 1972

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		Paragraph	Page
SECTION	I.	IDENTIFICATION AND DESCRIPTION	
		Test instrument identification.....	1 2
		Calibration data card, (DA Form 2416).....	2 2
		Calibration description	3 2
	II.	EQUIPMENT REQUIREMENTS	
		Equipment required	4 2
		Accessories required	5 2
	III.	CALIBRATION PROCESS	
		Preliminary instructions	6 3
		Sound-level meter sensitivity	7 3
		Frequency response	8 4
		Weighting network response	9 6
		Final procedure.....	10 7

*This bulletin supersedes TB 9-4931-413-50, 8 July 1970.

SECTION I IDENTIFICATION AND DESCRIPTION

1. Test Instrument Identification. This bulletin provides instructions for the calibration of sound-level meter, General Radio Models 1551-C and 1565-A. The manufacturer's instruction manual was used as the prime data source in compiling these instructions. The sound level meter will be referred to as the "test instrument" throughout this bulletin.

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

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

2. Calibration Data Card (DA Form 2416). Maintenance forms, records, and reports which are to be used by calibration personnel at all calibration levels are listed in and prescribed by TM 38-750.

3. Calibration Description. Test instrument parameters and performance specifications which pertain to this calibration are listed in table 1.

Table 1. Calibration Description

Test instrument parameters	Performance specifications
Sound-level range	Model 1551-C: 24 to 150 db above 0.0002 μ bar at 1000 Hz Model 1565-A: 44 to 144 db above 0.0002 μ bar at 1000 Hz

SECTION II EQUIPMENT REQUIREMENTS

4. Equipment Required. Table 2 identifies the specific equipment used in this calibration procedure. This equipment is issued with secondary reference calibration standards set 4931-621-7878 and is to be used in performing this procedure.

5. Accessories Required. The accessories furnished with the test instrument are the only items required to perform this procedure.

Table 2. Minimum Specifications of Equipment Required

Common Name	Minimum Use Specification	Manufacturer, Model, and Part Number
SOUND-LEVEL CALIBRATOR	No substitute	General Radio, Model 1562-A (MIS-10219)