

***TB 9-6695-300-50**

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR RADAR GUN TUNING FORKS (GENERAL)

Headquarters, Department of the Army, Washington, DC

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*This bulletin supersedes TB 9-6695-300-35, dated 20 June 2000.

SECTION I IDENTIFICATION AND DESCRIPTION

1. Test Instrument Identification. This bulletin provides instructions for the calibration of Radar Gun Tuning Forks (General). 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. None.

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

3. Calibration Description. Some typical TI parameters and performance specifications for known tuning forks are listed in table 1 by manufacturer and model.

Table 1. Calibration Description

Test instrument parameters	Performance specifications
Frequency: General X-Band	Range: X-Band (Carrier, 10.525 GHz) 35 MPH, 1099 Hz 50 MPH, 1569 Hz 65 MPH, 2040 Hz 80 MPH, 2511 Hz 88 MPH, 2762 Hz Accuracy: ± 0.5 MPH or ± 15.6 Hz
Frequency: Specific X-Band (Kustom Electronics, Model KR-10SP)	Range: X Band 35 MPH, 1115 Hz 50 MPH, 1582 Hz 65 MPH, 2057 Hz Accuracy: ± 10 Hz
Frequency: General K-Band	Range: K-Band (Carrier, 24.15 GHz) 35 MPH, 2521 Hz 50 MPH, 3601 Hz 65 MPH, 4681 Hz 65 MPH, 4732 Hz ¹ 80 MPH, 5762 Hz 88 MPH, 6338 Hz Accuracy: ± 35.8 Hz or $\pm .5$ MPH
Frequency: Specific K-Band (Kustom Electronics, Model 0640053, 0640054)	Range: K Band 35 MPH, 2542 Hz 50 MPH, 3650 Hz 65 MPH, 4732 Hz Accuracy: ± 10 Hz

See footnote at end of table.