

***TB 11-6625-417-35/1**

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR Q METERS TS-617/U, TS-617A/U, TS-617B/U, AND TS-617C/U

Headquarters, Department of the Army, Washington, DC

10 April 1972

		Paragraph	Page
SECTION	I. IDENTIFICATION AND DESCRIPTION		
	Purpose and scope	1-1	2
	General instructions.....	1-2	2
	Reporting of technical bulletin improvements	1-3	2
	Descriptive data.....	1-4	2
	Differences among models	1-5	4
	II. CALIBRATION		
	Equipment required	2-1	4
	Preliminary procedure.....	2-2	5
	Set level (TS-617B/U and TS-617C/U)	2-3	7
	Q Calibration (TS-617/U and TS-617A/U).....	2-4	8
	Q Calibration (TS-617B/U and TS-617C/U)	2-5	9
	Oscillator frequency.....	2-6	10
	Capacitance	2-7	13
	Final procedure.....	2-8	13

SECTION I IDENTIFICATION AND DESCRIPTION

1-1. Purpose and Scope

a. This bulletin provides information for the periodic calibration of Q Meters, TS-617/U, TS-617A/U, TS-617B/U, and TS-617C/U, and is used by maintenance calibration personnel. Since maintenance calibration personnel are trained and qualified in the use of test and measuring equipment, detailed instructions concerning the operation and use of these equipment are not contained in this bulletin.

b. Integrated within this bulletin are illustrations showing the location of all controls and components used in this calibration procedure.

1-2. General Instructions

a. Calibration Data Card. During the performance of this procedure, annotate DA Form 2416 (Calibration Data) in accordance with TM 38-750.

b. Unit Under Test. Q Meters TS-617/U, TS-617A/U, TS-617B/U, and TS-617C/U will be referred to as "unit under test."

c. Removal. Do not remove the unit under test from its protective case unless necessitated by equipment connections and/or components to be adjusted which are not accessible from external parts provided on the unit under test.

1-3. Reporting of Technical Bulletin Improvements. The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commanding General, US Army Electronics Command, ATTN: AMSEL-MA-CA, Fort Monmouth, NJ 07703.

1-4. Descriptive Data. Q Meters TS-617/U, TS-617A/U, TS-617B/U, and TS-617C/U are a general purpose instrument for use in tests where measurement of Q inductance, capacitance, resistance, and resonant frequencies of tuned circuits is to be made. Additional data are listed in **a**, **b**, and **c** below.

a. Identification

Nomenclature	Q Meters TS-617/U, TS-617A/U, TS-617B/U, and TS-617C/U
Size	21 x 12 x 9 (approx)
Weight	66 lb (approx)
Reference	TM 11-2635A w/C 1, 2, and 4