TECHNICAL BULLETIN

CALIBRATION PROCEDURES FOR RADAR TEST SET GROUP OQ-270/APS-94F (NSN 6625-01-069-7058)

HEADQUARTERS, DEPARTMENT OF THE ARMY

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-ME-MP, Fort Monmouth, New Jersey 07703. In either case, a reply will be furnished direct to you.

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Section I. IDENTIFICATION AND DESCRIPTION

1-1. Test Instrument (TI) Identification

a. This technical bulletin provides calibration procedures for Radar Test Set Group OQ-270/ APS-94F. The OQ-270/APS-94F (fig. 1-1) is used for bench testing, alinement, calibration, and troubleshooting the following equipment:

(1) Radar Receiver/Transmitter RT-1283/ APS-94F.
(2) Power Supply-Mount PP-7508/APS-94F.
(3) Interconnecting Box J-2794A/APS-94F.
(4) Antenna AS-3322/APS-94F.

b. The OQ-270/APS-94F contains one component which requires calibration: Radar Test Set TS-3770/APS-94F (test set). The test set is used in testing and troubleshooting Radar Receiver/Transmitter RT-1283/APS-94F and Power Supply-Mount PP-7508/APS-94F.

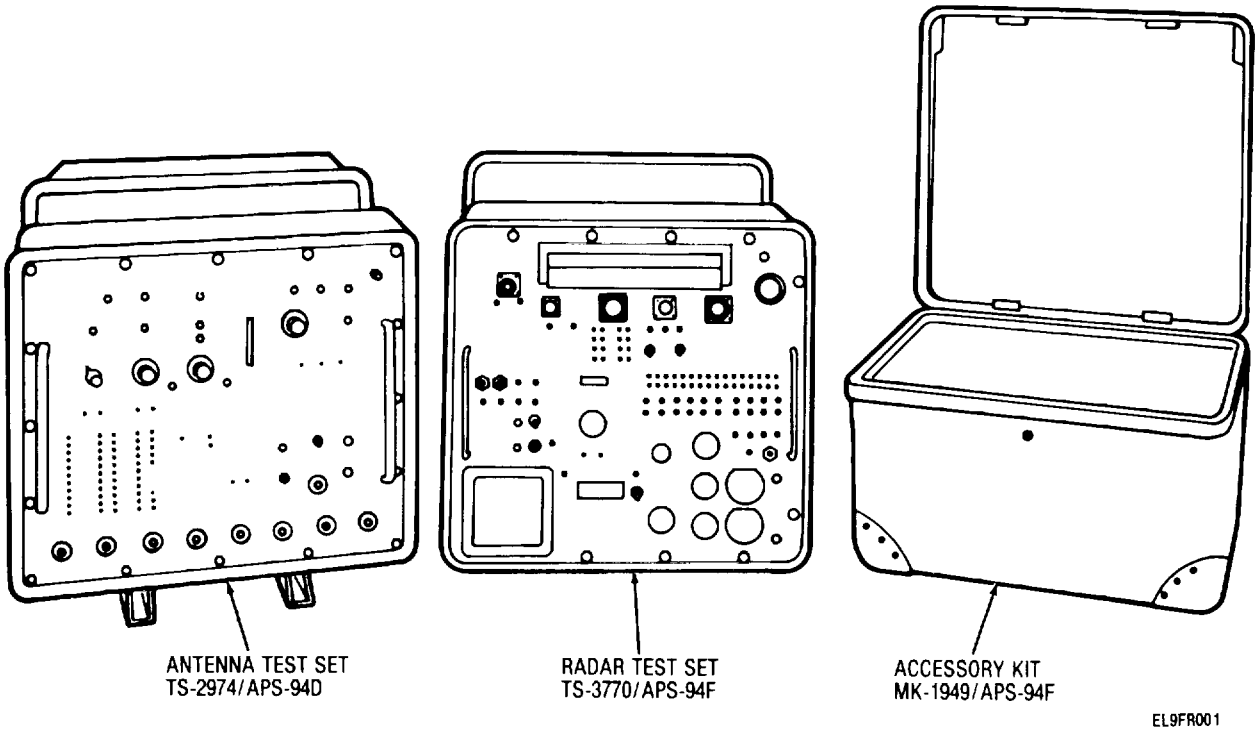

Figure 1-1. Radar Test Set Group OQ-270/APS-94F.

1-2. Calibration Description. Table 1-1 lists the parameters to be calibrated and the performance specifications for each parameter.

Table 1-1. Calibration Description

Test Instrument Parameters	Performance Specifications
Regulator Filter A6AI	
Dc output levels	+ 15.0 ± 0.3 V + 10.0 ± 0.3 V -15.0 + 0.3V
+ 5.2 Volt Regulator A3A4	
Dc output level	+5.20 ± 0.05 V
Detector/Amplifier A3A2	
Gain adjustment	0.0 + 0.1 Vdc
DVM Logic Module A5AI	
ANT DETECTION Signal	Calibrate at 0.0 ± 0.1 Vdc
Front panel METER display	Calibrate at O V and + 5 V
BITE Module A5A3	
SYNTH LOCK signal threshold	0.4 ± 0.1 Vdc above SYNTH output
ECCM Module A5A4	
MT video threshold	-1.2 ± 0.1 V
ECCM pulse width	500 ± 5OnS, 1100 ± 50 nS
Power Supply A1A1	
Dc output levels	+ 10.0 ± 0.4 V + 15.0 ± 0.6 V (3 outputs) -15.0 ± 0.6 V (2 outputs) +5.0 ± 0.2 V (2 outputs)

1-3. Reports of Maintenance Forms, Records, and Reports

a. Reports of Maintenance and Unsatisfactory Equipment. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System (TAMMS).

b. Report of Packaging and Handling Deficiencies. Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/DLAR 4140.NAVMATINST 4355. /AFR 400-54/MCO 4430.3E.

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/ NAVSUPINST 4610./AFR 75-18/MCO P4610.19C /DLAR 4500.

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