

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR'S AND ORGANIZATIONAL
MAINTENANCE MANUAL

TEST SET, AUDIO

AN/GRM-65

(NSN 6625-00-9351500)

This copy is a reprint which includes current pages
from Changes 1 through 3

HEADQUARTERS, DEPARTMENT OF THE ARMY

Operator's and Organizational Maintenance Manual

**TEST SET, AUDIO FREQUENCY AN/GRM-65
(NSN 6625-00-9351500)**

		Paragraph	Page
CHAPTER 1	INTRODUCTION		
SECTION I	General		
	Scope	1-1	1-1
	Indexes of publication	1-2	1-1
	Forms and records	1-3	1-1
	Reporting of errors	1-3.1	1-1
	Reporting equipment improvement recommendations (EIR)	1-3.2	1-1
	Administrative storage	1-3.3	1-1
	Destruction of Army electronics materiel	1-3.4	1-1
II.	Description and data		
	Purpose and use	1-4	1-1
	Technical characteristics	1-5	1-3
	Items comprising an operable equipment	1-5.1	1-3
	List of components and spares	1-6	1-3
	Description of Test Set. Audio AN/GRM-65	1-7	1-3
	Additional equipment required	1-8	1-4
CHAPTER 2.	INSTALLATION		
	Service upon receipt of equipment		
	Unpacking	2-1	2-1
	Checking unpacked equipment	2-2	2-1
CHAPTER 3.	OPERATING INSTRUCTIONS		
SECTION I.	Operator's controls and indicators		
	Placement of equipment	3-1	3-1
	Test Set, Audio TS-212.4GRM-65 controls and indicators	3-2	3-1
	Power and switching section controls and indicators	3-3	3-1
	Current regulation section controls and indicators	3-4	3-2
	Baseband section controls indicators and connectors	3-5	3-2
	Signaling unit section controls and indicators	3-6	3-5
	Connector and receptacle section	3-7	3-6
II.	Operation under usual conditions		
	Types of operation	3-8	3-6
	Preliminary starting procedures	3-9	3-7
	Starting procedure	3-10	3-7
	Testing transmitter baseband assembly 2A3	3-11	3-7
	Testing receiver baseband assembly 3A3	3-12	3-7
	Testing current regulator assembly 2A6	3-13	3-7
	Testing signaling unit 3A6	3-14	3-8
	Stopping procedures	3-15	3-8
CHAPTER 4.	MAINTENANCE		
SECTION I.	General		
	Scope of maintenance	4-1	4-1
	Preventive maintenance	4-2	4-1
	Preventive maintenance checks and services periods	4-3	4-1
II.	Operator's maintenance		
	Operator's daily preventive maintenance checks and services charts	4-4	4-3
	Operator's weekly preventive maintenance checks and services chart	4-5	4-5
	Cleaning	4-6	4-5

TABLE OF CONTENTS - Continued

		Paragraph	Page
III.	Organizational maintenance		
	Monthly preventive maintenance checks and services chart	4-7	4-5
	Quarterly preventive maintenance checks and services charts.....	4-8	4-6
	Touchup painting instructions.....	4-9	4-6
	Organizational general troubleshooting information.....	4-10	4-6
	Organizational troubleshooting chart.....	4-11	4-6
	Supplementary troubleshooting information	4-12	4-8
	Repairs and adjustments.....	4-13	4-8
CHAPTER 5.	SHIPMENT, LIMITED STORAGE, AND DEMOLITION TO PREVENT ENEMY USE		
SECTION I.	Shipment and limited storage		
	Disassembly of equipment	5-1	5-1
	Repacking for shipment or limited storage	5-2	5-1
SECTION II.	Demolition of materiel to prevent enemy use		
	Authority for demolition.....	5-3	5-2
	Methods of destruction.....	5-4	5-2
APPENDIX A	REFERENCES		A-1
B	DELETED		B-1
C	MAINTENANCE ALLOCATION		
SECTION I	Introduction.....		C-1
II	Maintenance allocation chart.....		C-3
III	Tool and test equipment requirements		C-4
IV	Remarks		C-5
APPENDIX D	DELETED		D-1

CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This manual describes Test Set, Audio frequency AN/GRM-65 (fig. 1-1) and covers its installation, limited operation, and operator's and organizational maintenance. It includes instructions for operation under usual conditions, cleaning and inspection of the equipment, and replacement of parts available to the operator and organizational repairman.

b. Operation of Test Set, Audio frequency AN/GRM-65, in conjunction with other test equipment (para 1-8) to test components of Radio Set AN/GRC-50(*) (V) (para 1-4a) is covered in TM 11-5820-461-35.

c. Official nomenclature followed by (*) is used to indicate all models of the equipment items covered in this manual; therefore, Radio Set AN/GRC-50(*) (V) represents Radio Sets AN/ GRC-50(V) 1, 2, 3, 4, 5, and AN/GRC-50A(V) 1, 2, 3, 4, 5, 6, and 7.

1-2. Indexes of Publications

a. DA Pam 310-4. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. DA Pam 310-7. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO's) pertaining to the equipment.

1-3. Forms and Records

a. Reports of Maintenance and Unsatisfactory Equipment. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

b. Report of Packaging and Handling Deficiencies. Fill out and forward DD Form 6 (Packaging Improvement Report) as prescribed in AR 700-58/NAVSUPINST 4030.29iAFR 7113/MCO P4030.29A, and DSAR 4145.8.

c. Discrepancy in Shipment Report (DISREP) (SF .61). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-

38/NAVSUPINST 4610.33A/ AFR 75-18/MCO P4610.19B and DSAR 4500.15.

1-3.1. Reporting of Errors

You can help improve this manual by calling attention to errors and by recommending improvements and stating your reasons for the recommendations. Your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) should be mailed direct to Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, New Jersey 07703. A reply will be furnished direct to you.

1-3.2. Reporting Equipment

Improvement Recommendations (EIR) EIR's will be prepared using DA Form 2407 (Maintenance Request). Instructions for preparing EIR's are provided in TM 38-750, The Army Maintenance Management System. EIR's should be mailed direct to Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, New Jersey 07703. A reply will be furnished direct to you.

1-3.3. Administrative Storage

Administrative storage of equipment issued to and used by Army activities shall be in accordance with TM 740-90-1.

1-3.4. Destruction of Army Electronics Materiel

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

Section II. DESCRIPTION AND DATA

1-4. Purpose and Use

a. Test Set, Audio frequency AN/GRM-65 (audio test set) when used with additional test equipment (para 1-8) permits the operator to check the performance, alignment, and trouble