

TM 11-5820-498-35

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DS,GS, AND DEPOT MAINTENANCE MANUAL

RADIO SETS

AN/VRC-53, AN/VRC-64, AN/GRC-125

AND AN/GRC-160

AND

AMPLIFIER-POWER SUPPLY GROUPS

OA-3633/GRC AND OA-3633A/GRC

This copy is a reprint which includes current
pages from Changes 1 through 4.

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DS, GS, and Depot Maintenance Manual
RADIO SETS AN/VRC-53, AN/VRC-64, AN/GRC-125
AND AN/GRC-160, AND AMPLIFIER-POWER SUPPLY GROUPS
OA-3633/GRC AND OA-3633A/GRC

	Paragraphs	Page
CHAPTER 1. INTRODUCTION	1-1—1-4	1-1
2. CIRCUIT FUNCTIONING		
Section I. Radio, and radio with intercom, circuit functioning	2-1—2-5	2-1
II. Retransmission circuit functioning	2-6—2-8	2-8
III. Amplifier-Power Supply Group OA-3633(*)/GRC, circuit functioning	2-9—2-11	2-11
CHAPTER 3. DS AND GS MAINTENANCE, AMPLIFIER-POWER SUPPLY GROUP OA-3633(*)/GRC.		
Section I. General troubleshooting techniques.	3-1—3-4	3-2
II. OA-3633(*)/GRC; troubleshooting procedure	3-5—3-11	3-5
III. OA-3633(*)/GRC, parts removal and replacement procedures	3-12—3-16	3-13
IV. OA-3633(*)/GRC, testing procedures	3-17—3-24	3-18
CHAPTER 4. DEPOT OVERHAUL STANDARDS	4-1—4-4	4-1
APPENDIX A. REFERENCES		A-1

*This manual supersedes TM 11-5820-498-35, 7 February 1963, including all changes.

CHAPTER 1 INTRODUCTION

1-1. Scope

This manual covers direct support (DS), general support (GS), and depot maintenance of Amplifier-Power Supply Group OA-3633(*)/GRC, including detailed circuit functioning, troubleshooting, testing, and repair procedures. This manual also covers circuit functioning of Radio Sets AN/VRC-53, AN/VRC-64, AN/GRC-125, and AN/GRC-160.

NOTE

(OA-3633(*)/GRC represents OA-3633/GRC and OA-3633A/GRC (para 14).

a. Operation of the radio sets (which include the OA-3633(*)/GRC), with and without crew-member control boxes in the radio-intercom system, and the operator's and organizational maintenance of the radio sets is covered in TM 11-5820-498- 12.

b. Following is a list of publications covering circuit functioning, maintenance, and repair parts for various components of the radio sets covered in this manual.

<i>Item</i>	<i>Technical manual</i>	<i>Coverage</i>
AN/VRC-53, AN/VRC-64, AN/GRC-125, and AN/GRC-160.	TM 11-5820-498-12.	Operation and organizational maintenance.
	TM 11-5820-498-35.	DS/GS maintenance
RT-505/PRC-25.	TM 11-5820-398-12.	Operation and organizational maintenance repair parts.
	TM 11-5820-398-35.	Circuit functioning and DS, GS, and depot maintenance.
	TM 11-5820-497-34P.	DS, GS, and depot maintenance repair parts.
	TM 11-6625-514-12.	DS maintenance using Test Set, Electronic Circuit, Plug-In Unit AN/GRM-56, -55A, -55B, or -55C to locate faulty modules.
RT-841/PRC-77.	TM 11-5820-667 -12.	Organizational maintenance repair parts.
	TM 11-5820-667-35.	Circuit functioning and DS, GS, and depot maintenance, including troubleshooting for defective modules.
	TM 11-5820-667-34P.	DS, GS, and depot maintenance repair parts.
OA-3633(*)/GRC.	TM 11-5820-498-12.	Organizational maintenance.
	TM 11-5820-498-20P.	Organizational, maintenance repair parts.
MT-1029/VRC.	TM 11-5820-401-12 and TM 11-5820-401-35-9	Operator, organizational, DS, GS, and depot maintenance, and repair parts.
AT-912/VRC.	TM 11-5820-401-12.	Operator, organizational, DS, GS, and depot maintenance, and repair parts.
AS-1729/VRC.	TM 11-5985-262-15.	Operator, organizational, DS, GS, and depot* maintenance, circuit functioning, and repair parts.
H-138/U and H-138A/U.	TM 11-5965-257-15.	All maintenance levels and repair parts.
H-189/GR.	TM 11-5965-280-15.	All maintenance levels and repair parts.

c. Following are publications covering various audio accessories and crewmember radio-intercom equipment used with the radio sets covered in this manual.

<i>Item</i>	<i>Publication</i>	<i>Coverage</i>
Headset-Microphone H-161/U and H-161/U.	TM 11-5965-262-13.	All maintenance and repair parts.
Headset Microphone Kit MK-1039/G (also used in CVC Helmet).	TM 11-5965-282-15.	All maintenance and repair parts.
Intercom equipment:.....	TM 11-5830-340-12	
Amplifier, Audio Frequency	TM 11-5820-401-30-4,	
AM-1780/VRC, and Controls,	TM 11-5820-401-35-6, -7, and -8	
Intercommunication Set		
C-2296/VRC, C-2297/VRC, and C-2298/VRC.		
Interunit cabling, mounting.	SB 11-131.	Items comprising installation kit, including Federal stock numbers for kit parts.
hardware, audio accessories, etc.; provided in installation kits as required for particular vehicle installation.		
Head, Mic Kit MK-1697/G (in new CVC Helmet).	TM 11-2300 series; refer to DA Pam 310-4. TM 11-5965-286-14	Instructions for installing particular radio and radio-Intercom configuration.