

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR'S MANUAL

RADIO SET
AN/GRC-26D

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

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Technical Manual }
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DEPARTMENT OF THE ARMY
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**Operator's Manual
RADIO SET AN/GRC-26D**

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*This manual supersedes TM 11-5820-256-10, 20 July 1961, Including all changes.

Change 1 i

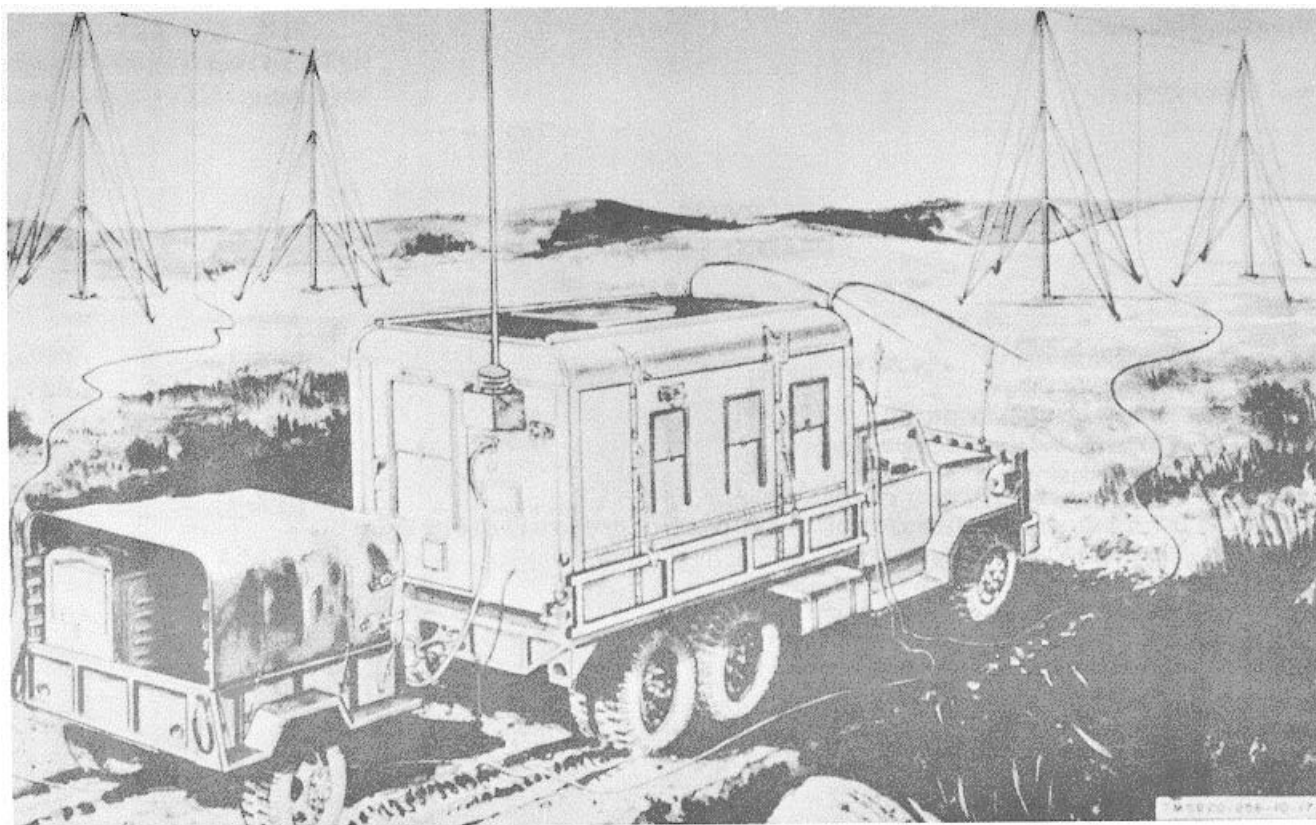


Figure 1-1. Radio Set AN/GRC-26D, mounted on truck.

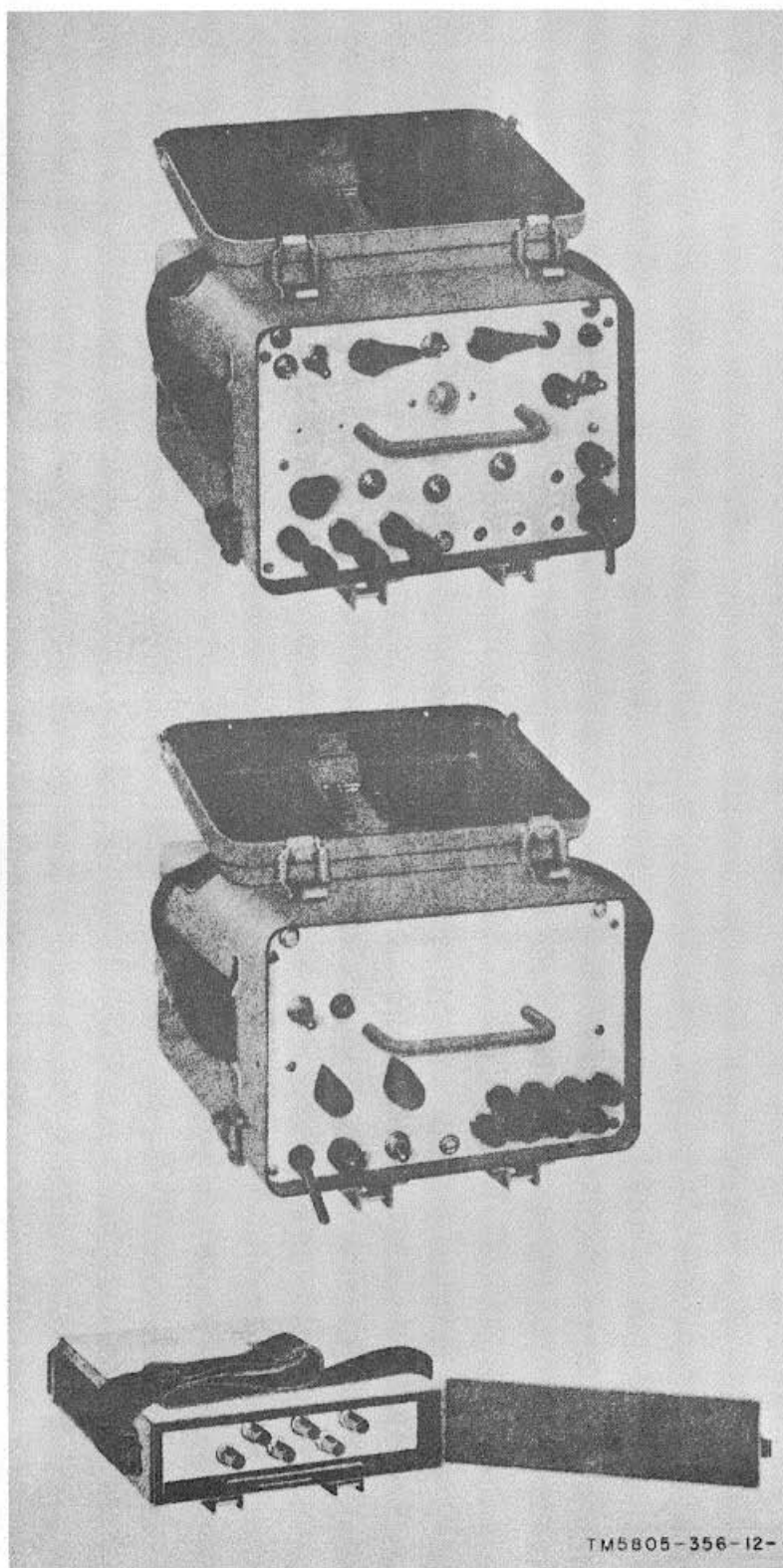


Figure 1-1. Terminal, Telegraph-Telephone AN/TCC-29

CHAPTER 1 INTRODUCTION

1-1. Scope

a. This manual describes Radio Set AN/GRC-26D (fig. 1-1) and covers its installation, operation, and operator's maintenance. It includes operation under usual conditions, as well as operation with security equipment; cleaning and inspection of equipment; and replacement of the parts available to the operator. Detailed discussion of Modulator, Radio MD239(*)/GR; Switch Box SA-331/U; Control, Radio Set C-1123/GRC; and Control, Remote Switching C1474/GRC is provided. Detailed information pertaining to the remainder of the major components comprising Radio Set AN/GRC-26D is contained in the technical manuals listed in appendix A.

b. Official nomenclature followed by (*) is used to indicate all models of the equipment. The chart below is a list of such equipments discussed in this manual.

Nomenclature	Models represented
Receiver, Radio R-390(*)/URR.	R-390/URR, R-390A/URR
Mast Bracket MP-50--(*)	MP-50, MP-50-A
Converter, Frequency Shift CV-116(*)/URR	CV-116/URR, CV-116A/URR, CV-116B/URR, CV-116C/URR.
Loudspeaker Assembly LS-206(*)/U.	LS-206/U, LS-206A/U
Reperforator-Transmitter, Teletypewriter TT-76 (*)/GGC.	TT-76/GGC, TT-76A/GGC, TT-76B/GGC.
Teletypewriter TTF-98 (*)/FG	TT-98/FG, TI98A/FG, TT-98B/FG.
Cabinet, Storage CY-1721 (*)/GRC.	CY-1721/GRC, CY-1721A/GRC
Mast AB-155(')/U	AB-155/U, AB155A/U, AB-155B/U.
Modulator, Radio MD 239(*)/GR.	MD-239 GR, MD-239A/GR
Transmitter, Radio T-368 (*)/URT.	T-368/URT, T-368A/URT, T-368B/URT, T-368C/URT, T-368D/URT, T-368E/URT, T-368F/URT.
Microphone M-29(*)/U.....	M-29/U, M-29A/U
Shelter, Electrical Equipment S-56(*)/G.	S-56A/G, S-56B/G
Mast Section MS-44-(*).....	MS-44, MS44:A
Guy MX-381(')/GRA4.....	MX-381/GRA-4, MX-381A/GRA-4.
Guy MX-382(*)/GRA-4	MX-382/GRA-4, MX-382A/GRA-4.
Guy MX-383(*)/GRA-4	MX-383/GRA-4, MX-516A/GRA-4.
Halyard MX-516(*)/GRA-4	MX-515/GRA-4, MX-516A/GRA-4.

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 this 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 70058/NAVSUPINST 4030.29/AFR 71-13/MCO P4030.29A, and DLAR 4145.8.

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 4610.53B/AFR 75-18/MCO P4610.19C, DLAR 4500.15.

1-3.1. Reporting of Errors

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 Blank Forms) and forwarded direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703.

1-3.2. Administrative Storage

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

1-3.3. Destruction of Army Electronics Materiel

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

1-3.4. Reporting Equipment Improvement Recommendations (EIR)

EIR's will be prepared using Standard Form 368 (Quality Deficiency Report). 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 Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

1-4. Purpose and Use

a. *Purpose.* Radio Set AN/GRC-26D (fig. 1-1) is a self-contained radio-teletypewriter station operating over a frequency range of 1.5 to 20.0 megahertz (MHz) with a power output of approximately 450 watts. The AN/GRC-26D provides facilities for transmission and reception of

frequency-shift keying (fsk), amplitude-modulated (am.) voice, continuous-wave (cw), and combination frequency-shift keying and amplitude-modulated (fsk-am.) signals. Facilities are also provided for operation with security equipment. Normally, am. voice or cw service is used only in an emergency or when operating conditions prevent the use of the fsk facilities. Voice communication may be superimposed upon an fsk signal without modifying.

1-5.1. Items Comprising Operable Radio Sets AN/GRC-26D (FSN 5815-518-0399), and AN/GRC-26D modified by MWO 11-5820-256-35/1

FSN.	QUANTITY		Nomenclature, part No., and mfr code
	AN GRC-26D	AN/GRC-26D with MWO	
			NOTE The part number is followed by the applicable 5-digit Federal supply code for manufacturers (FSCM) identified in SB 708-42 and used to identify manufacturer, distributor, or Government agency, etc. Modification Kit: For AN/GRC-26D Axle, RL-27D Blower Assembly, Electrical HD-223/G Bracket MP-50-A Bracket MT-657/GRC Cabinet, Electrical, CY-1807/G Cable Assembly, Power, Electrical: (5 ft 5 in) SC-C-7548A; 80063 Cable Assembly, Radio Frequency CG-409/G: (3 ft 0 in.) Cable Assembly, Radio Frequency CG409G/U: (8 ft) Cable Assembly, Radio Frequency CG-629A/U: (75 ft) Cable Assembly, Radio Frequency CG-718A/U: (8 ft) Cable Assembly, Radio Frequency CG-718A/U: (25 ft 6 in) Cable Assembly, Special Purpose Electrical CX-1200: (3 ft 9 in) Cable Assembly, Special Purpose, Electrical CX-1201/U: (5 ft 2 in) Cable Assembly, Radio Frequency CG-1 333/U: (4 ft) Cable Assembly, Power Electrical CX-1 166/U: (50 ft) Cable Assembly CG-1334/U: (500 ft) Cable Assembly, Special Purpose, Electrical CX-1852/U: (6 ft) Cable Assembly, Power Electrical CX-2254/U: (10 ft) Cable Assembly, Special Purpose CX-3267/U: (12 ft 6 in.) Cable Assembly, Special Purpose CX-3268/U: (14 ft) Cable Assembly, Power Electrical CX-6485/U: (12 ft 6 in.) Cable Assembly, Special Purpose, Electrical CX-9994A/U: (3 ft) Cable Assembly, Special Purpose, Electrical CX-9995A/U: (3 ft 0 in.) Cable Assembly, Special Purpose, Electrical CX-9995A/U: (8 ft 6 in.) Cable Assembly, Special Purpose, Electrical CX-9996A/U: (10 ft) Cable Assembly, Special Purpose, Electrical CS-9997A/U: (8 ft 6 in.) Cable Assembly, Special Purpose, Electrical CX-9998/U: (8 ft 6 in.) Cable Assembly, Special Purpose, Electrical CX-11411/U: (8 ft 6 in.) Cable Assembly, Special Purpose, Electrical CX-11412: (18 ft 10 in.) Cable Assembly, Special Purpose, Electrical CX-1 1413: (8 ft 6 in.) Cable Assembly, Special Purpose, Electrical CX-1 1414/U: (8 ft 6 in.) Cable Assembly, Special Purpose, Electrical CX-11415/U: (2 ft 6 in.) Cable Assembly, Special Purpose, Electrical CX-11415/U: (6 ft 6 in.) Cable Assembly, Special Purpose, Electrical CX-11416/U: (10 ft) Cable Assembly, Special Purpose, Electrical CX-11417: (35 ft 0 in.) Cable Assembly, Special Purpose, Electrical CX-11418: (8 ft 6 in.) Clamp, Loop: SC-B-19491; 80063 Connector, Adapter, UG-643/U Connector, Adapter, UG-971 /U Connector, Adapter, UG-27C/U Connector, Adapter, UG-567A/U Connector, Adapter, UG-637/U Control, Radio Set C-1123/GRC Control, Radio Set C-11 23/URC (Modification Kit) Control, Remote, C-1474/GRC Control, Remote Switching C-1474/GRC: (Modification Kit) Cord CG-55E/U: (3 ft 4 in.) Cord Assembly, Electrical CX-3296/U: (13 ft 6 in.) Cord Assembly, Electrical CX-3270/U: (5 ft) Cord Assembly, Electrical CX-3271/U: (5 ft) Cord Assembly, Electrical: (15 ft 8 in.) SC-C-75544; 80063 Cord, CD-307A: (6 ft) Filter Assembly: SM-D-536227; 80063 Filter Assembly: SM-D-536226: 80063 Filter: 109-D50-52; 02777
5815-082-3868		1	
3895-356-3937	1		
4140-347-6807	1		
5820-404-2718	1		
5820-497-8596	1		
5820-503-0951	1		
5995-519-1146	1		
5995-889-0751		1	
5995-823-2974	1		
5995-752-1362	1		
5995-752-2056	2		
5995-636-3329	1		
5995-170-8780	2		
	2		
5995-752-2335	1		
5995-170-7929	2		
5995-823-2012	2		
5995-349-4844	1		
5995-903-7725	2		
5995-752-2139	1		
5995-510-0615	2		
5995-752-2511	1		
5995-926-0772		1	
5995-926-0774		1	
5885-926-0775		1	
5995-926-0773		1	
5995-926-0831		1	
5995-926-0818		1	
5995-999-0116		1	
5995-926-0819		1	
5995-926-0807		1	
5995-926-0817		1	
5995-926-0836		1	
5995-926-0833		1	
5995-999-2650		1	
5995-999-2649		1	
5995-926-0835		1	
5340-286-2491	3		
5935-259-0019	2		
5935-201-2410	2		
5935-204-8382	1		
5935-201-2735	1		
5935-259-0099	2		
5820-537-3847	1		
5820-082-3950	1		
5820-503-3468	1		
		1	
5995-889-1314	1		
5995-523-1789	1		
5995-538-9764	2		
5995-752-2135	2		
6145-283-9634	1		
5995-164-7716	2		
		1	
		1	
		1	

Change 1-2.1