CHANGE No. 1 HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C., 13 October 1965

Operator and Organizational Maintenance Manual

RADIO SET AN/GRC-106, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST

TM 11-5820-520-12, 25 August 1965, is changed as follows:

Change the title of the manual as shown above. $Paqe \delta$, paragraph 3c. Delete subparagraph c and substitute:

c. Reporting of Equipment Manual Improvements. The direct reporting by the individual user of errors, omissions, and recommendations for improving this manual is authorized and encouraged. DA Form 2028 (Recommended Changes to DA Publications) will be used for reporting these improvements. This form will be completed using pencil, pen, or typewriter and forwarded direct to Commanding General, U.S. Army Electronics Command, ATTN: AMSEL-MR-(NMP)-MA, Fort Monmouth, N.J., 07703.

Page 6, paragraph 6, after the heading. Delete "(fig. 2, 3, 5, and 7)" and substitute: (fig. 1.1, 2, 3, 5, and 7).

Page 7. Add figure 1.1 after paragraph 6

^{*}This change supersedes TM 11-5820-520-20P, 25 August 1964.

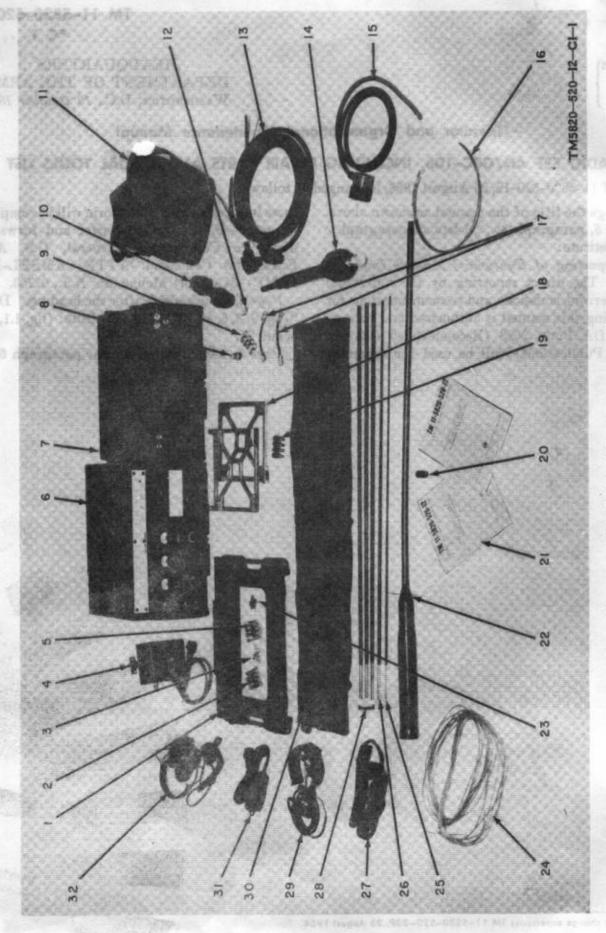


Figure 1.1. Radio Set AN/GRC-106, less spare parts.

- 1 Mounting MT-3140/GRC-106.
- 2 Capscrew, hexagonal head, 1/4-28, 2.0 in. (8).
- 3 Lockwasher, internal and external teeth for ¼ in. dia bolt (8).
- 4 Dynamic Loudspeaker LS-166/U.
- 5 Capscrew, hexagonal head, 1/4-28, 2.5 in. (8).
- 6 Amplifier, Radio Frequency AM-3349/GRC-106.
- 7 Receiver-Transmitter, Radio RT-662/GRC.
- 8 Adapter, Connector UG-201A/U.
- 9 Lug, terminal for % in. stud (4).
- 10 Cable Assembly, Special Purpose, Electrical CX-10099/U (7 in.).
- 11 Antenna Group AN/GRA-50.
- 12 Adapter, Connector UG-306/U.
- 13 Cable Assembly, Special Purpose, Electrical CX-10071/U (10 ft 0 in.) (2).
- 14 Mast Base AB-652/GR.
- 15 Lead, Electrical CX-10171/U (6 ft 0 in.).
- 16 Bonding jumper.

- 17 Cable Assembly, Radio Frequency CG-409G/U (8 in.) (2).
- 18 Crossbar, welded assembly, long (2).
- 19 Mounting hardware for crossbar, welded assembly, long (4).
- 20 Brass antenna sheath clamp.
- 21 TM 11-5820-520-12 (2).
- 22 Antenna cover.
- 23 Nut, plain, hexagonal, 1/4-28 (8).
- 24 Rope, braided filament, 20 ft (2):
- 25 Mast Section MS-118-A.
- 26 Mast Section MS-117-A.
- 27 Handset H-33/PT.
- 28 Mast Section MS-116-A (3).
- 29 Telegraph Key KY-116/U.
- 30 Bag CW-206/GR (including running spares).
- 31 Microphone M-29/U.
- 32 Headset H-227/U.

Page 12, paragraph 12. Add the following under the paragraph heading: (fig. 6.1). Add figure 6.1 after figure 6.

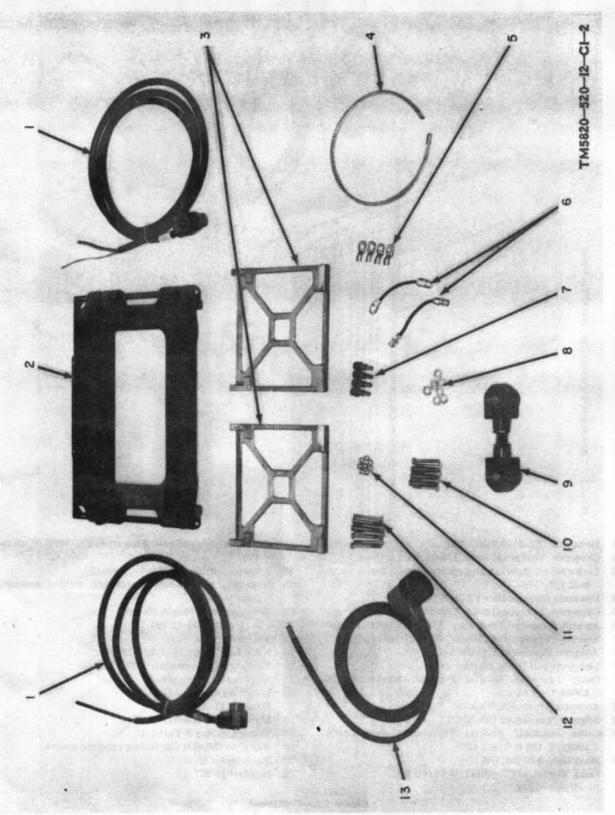


Figure 6.1. Radio Set AN/GRC-106, mounting system components.

- 1 Cable Assembly, Special Purpose, Electrical CX-10071/U (10 ft 0 in.) (2).
- 2 Mounting MT-3140/GRC-106.
- 3 Crossbar, welded assembly, long (2).
- 4 Bonding jumper.

TB SIG 364

- 5 Lug, terminal for % in. stud (4).
- 6 Cable Assembly, Radio Frequency CG-409G/U (8 in.) (2).
- 7 Mounting hardware for crossbar, welded assembly, long (4).
- 8 Lockwasher, internal and external teeth for ¼ in. dia bolt (8).
- 9 Cable Assembly, Special Purpose, Electrical CX-10099/U (7 in.).
- 10 Capscrew, hexagonal head, ¼-28, 2.0 in. (8).
- 11 Nut, plain, hexagonal, 14-28 (8).
- 12 Capscrew, hexagonal head, 1/4-28, 2.5 in. (8).
- 13 Lead, Electrical CX-10171/U (6 ft 0 in.).

Figure 6.1.—Continued

Page 54, appendix I. Add the following references:

SB 11-573 Painting and Preservation Supplies Available for Field Use for Electronics Command Equipment.

Field Instructions for Painting and Preserving Electronics Command

Equipment.

TM 11-5820-467-25P Organizational, Field and Depot Maintenance Repair Parts and Special Tool Lists: Antenna Group AN/GRA-50.

Page 70. Delete section II and substitute:

		SECTION II. OPERATOR'S FUNCTIONAL PARTS LIST					90	
FEDERAL STOCK NUMBER	DESIGNATION BY MODEL	DESCRIPTION	UNIT	EXP	QTY			
STOCK HUMBER			ISSUE		Avin	FIGURE NO.	ITEM NO	
5820-082-3491		RADIO SET AN/GRC-106		NX				
		ITEMS COMPRISING AN OPERABLE EQUIPMENT						
ORD THRU AGC		TECHNICAL MANUAL TM 11-5820-520-12			2			
5935-666-1649		ADAPTER, CONNECTOR UG-306/U: MS35368 (Not installed)			1	8		
5935-201-3090		ADAPTER CONNECTOR UG-201A/U: Sig dwg SC-D-72309 (Not installed)			1	8		
5820-078-4771		AMPLIFIER, RADIO FREQUENCY AM-3349/GRC-106: 2-30 mc freq range output; 400 w oper power reqt 28 v dc; 8 in x 13 in x 18 in o/a (Not installed)		NX	1	3		
5820-078-4769		COVER, ANTENNA: Polyethylene; 49-1/4 in lg x 1.8 in OD (base) x 0.64 in OD (neck) Colvin-Friedman p/n CF-457B (Not installed)			1	8		
5985-892-0758		ANTENNA GROUP AN/GRA-50 (Not installed)		NX	. 1	8, 9, 12		
5995-985-8014	Ш	LEAD ELECTRICAL CX-10171/U (6 ft) G-D p/n 666275-844; Sig dwg SM-C-502182 (Not installed)			1	12		
5820-571-1828		ANTENNA SHEATH CLAMP: Brass, Collins Radio #542-3032-002 (Not installed)			• 1	9		
5820-497-9644		BAG CW-206/GR: Sig dwg SC-DL-23003 (Not installed)			1	2		
5820-078-4770		MAST, BASE AB-652/GR: F/mtg 15 ft whip antenna, Sig dwg SC-DL-49678 (Not installed)			1	8		
5995-170-5573		LEAD, ELECTRICAL: 24 in 1g; Sig dwg SC-B-27840 (Not installed)			1			
5995-985-8005		CABLE ASSEMBLY, SPECIAL PURPOSE ELECTRICAL CX-10099/U (7 in): Sig dwg SC-C-52115 (Not installed)			1	12		
5995-985-8006		CABLE ASSEMBLY, RADIO FREQUENCY CG-409G/U (8 in): Sig dwg SC-DL-157329 (Not installed)			2	12	W6, W7	
5995-985-7898		CABLE ASSEMBLY, SPECIAL PURPOSE ELECTRICAL CX-10071/U (10 ft) SC-C-52115 (Not installed)			2	12	W2, W3	
5995-349-4844		CABLE ASSEMBLY, SPECIAL PURPOSE ELECTRICAL CX-1852/U (6 ft): Sig dwg SC-0-72385 (Not installed)			1	12		
5820-226-5727		CROSSBAR: Welded assy lg; G-D p/n 666274-138; Sig dwg SM-C-500868 (Not installed)			2			
5965-243-6420		DYNAMIC LOUDSPEAKER LS-166/U: Sig dwg SC-DL-2677 (Not installed)		NX	1	7		
5920-280-4960	11111	FUSE, CARTRIDGE: 2 amp, 250v; type FO2A250V2A (Installed in equip)			1	2		

FEDERAL STOCK NUMBER	DESIGNATION BY MODEL	DESCRIPTION	UNIT OF ISSUE	EXP	AUTH	FIGURE NO.	ITEM NO.
		AN/GRC-106 (continued)			4		
965-163-9947	Ш	HANDSET H-33E/PT, H-33F/PT (Not installed)		NX	1	7	
965-226-2915		HEADSET, ELECTRICAL H-227/U: Sig dwg SC-DL-436200 (Maintenance parts in TM 11-5965-260-15F are applicable for maintenance support of H-227/U.) (Not installed)		NX	1	7	
970-498-3745		INSULATOR IN-104: Sig dwg SC-D-4779 (Not installed)			4		
5805-503-3395		KEY, TELEGRAPH KY-116/U: Sig dwg SC-DL-45824 (Not installed)		NX	.1	7	
5940-636-5761		LUG TERMINAL; F/3/8 in stud; Sherman #316 (Not installed)			4	2	
5820-199-8831		MAST SECTION MX-116-A: Sig dwg SC-DL-100588 (Not installed)			3	2	
5820-199-8843		MAST SECTION MS-117-A: Sig dwg SC-DL-100588 (Not installed)		1000	1	2	
5820-199-8841		MAST SECTION MS-118-A: Sig dwg SC-DL-100588 (Not installed)	10		, 1	2	-Vinci
5965-892-0722		MICROPHONE, M-29/U (Not installed)		NX	1	7	
5820-078-5614		MOUNTING MT-3140/GRC-106: GD/E #666274-097; Sig dwg SM-C-500797 (Not installed)			,		
5310-543-4568		NUT, PLAIN HEXAGON: 1/4-28 MS35690-422 (Not installed)			8		
5820-078-4766		RECEIVER-TRANSMITTER RADIO RT-662/GRC: Al, A3a, A9c emission; 2-30 mc freq range; one band; 28vdc; 7 in x 12 in x 18 in o/a (Not installed)		NX	1	5	
4020-073-3276		ROPE: Polyethelene glycol terphthalate; 1/8 in dia; Ashaway #9-CS-0022X 2 ea 20 ft lengths (Not installed)	rt		40	8	
5305-582-6744		SCREW, CAP, HEXAGON HEAD: 1/4-28 x 2 in 1g; MS35292-14 (Not installed)			8	2	
5305-753-4367		SCREW, CAP, HEXAGON HEAD: 1/4-28 x 2-1/2 in lg; MS35292-16 (Not installed)				3 2	
5310-889-2528		WASHER, LOCK: Internal and external tooth for 1/4 dia bolt; MS45904-68 (Not installed)			1	2	
5120-226-5790		WRENCH, OPEN END, FIXED: 1/2 x 9/16 in opening; Snap-on-Tool Corp #VS-1618 (Not installed)		-		2 2	
		RUNNING SPARE ITEMS		-	1		
5920-280-4960		FUSE, CARTRIDGE: 2 amp, 250v; type FO2A250V2A (Not installed)		-	10	5 2	1.1

AN/GRC-106

FEDERAL STOCK NUMBER		B	M	ATIO	~	DESCRIPTION ·	UNIT OF ISSUE	EXP	QTY	ILLUST	RATION
Section 1	1		1	1	1		ISSUE	-	AUTH	FIGURE NO.	ITEM N
			1	†	t	AN/GRC-106 (continued)					
5970-498-3745			1	1	1	INSULATOR, IN-104: Sig dwg SC-D-4779 (Not installed)			1	2	
5940-636-5761			1	1		LUG, TERMINAL: F/ 3/8 in stud; Sherman #316 (Not installed)			1	2	
5820-199-8831			1	1		MAST SECTION MS-116-A: Sig dwg SC-DL-100588 (Not installed)			2	2	
5820-199-8843	-		1	T	T	MAST SECTION MS-117-A: Sig dwg SC-DL-100588 (Not installed)			1	2	
5820-199-8841			1	T	T	MAST SECTION MS-188-A: Sig dwg SC-DL-100588 (Not installed)			1	2	+
5310-543-4568			1	T		NUT, PLAIN HEXAGON: 1/4-28 MS35690-422 (Not installed)			2	2	
5305-582-6744						SCREW, CAP, HEXAGON HEAD: 1/4-28 x 2 in lg; MS35292-14 (Not installed)	T		2	2	
5305-753-4367		1	1			SCREW, CAP, HEXAGON HEAD: 1/4-28 x 2-1/2 in lg; MS35292-16 (Not installed)			2	2	
5310-889-2528		1	1	T		WASHER, LOCK: Internal and external tooth for 1/4 dia bolt; MS45904-68 (Not installed)			2	2	
			1	1	T						
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APPENDIX IV

ORGANIZATIONAL REPAIR PARTS LIST

Section I. INTRODUCTION

General

a. This manual lists the quantities of repair parts authorized for organizational maintenance and constitutes a basis of requisitioning when the major item of equipment is authorized to the organization. These equipments are issued on the basis of allowances prescribed in equipment authorization tables and other documents which are a basis of requisitioning. This equipment is combat essential.

b. Columns are as follows:

- Federal stock number. This column lists the 11-digit Federal stock number.
- (2) Designation by model. Not used.
- (3) Description. Nomenclature or the standard item name and brief identifying data for each item are listed in this column. When requisitioning, enter the nomenclature and description.
- (4) Unit of issue. The unit of issue is each unless otherwise indicated and is the supply term by which the individual item is counted for procurement, storage, requisitioning, allowances, and issue purposes.
- (5) Expendability. Nonexpendable items are indicated by NX. Expendable items are not annotated.
- (6) Quantity incorporated in unit. This column lists the quantity of each part found in a given assembly, component, or equipment.
- (7) Organizational. The quantities indicated in this column are maximum levels of repair parts authorized to be kept on

- hand by units performing organizational maintenance. The quantities are based on 100 equipments to be maintained for a 15-day period.
- (8) Illustration. The "Item No." column lists the reference designations that appear on the part in the equipment. These same designations are also used on any illustrations of the equipment. The numbers in the "Figure No." column refer to the illustrations where the part is shown.

2. Parts for Maintenance

When this equipment is used by signal service organizations organic to theater headquarters or communication zones to provide theater communications, those repair parts authorized up to and including general support are authorized for stockage by the organization operating this equipment.

3. Additional Repair Parts Authorization

An asterisk (*) indicates that an item is not authorized for stockage but if required, may be requisitioned for immediate use only.

4. Electron Tubes

The consumption rates given for tubes are conservative theoretical estimates and are provided for use only when more complete information, such as data based on operating experience, is not available. These figures are based on levels and requirements for equipment actually in use, not on authorizations or equipment stored in depots.

5. Requisitioning Information

a. The allowance factors are based on 100 equipments. In order to determine the number of parts authorized for the specific number of equipments supported, the following formula will be used and carried out to two decimal places.

Specific number of equipments supported $\times \frac{\text{allowance factor}}{100} = \frac{\text{Number of parts authorized.}}{\text{ized.}}$

- b. Fractional values obtained from above computation will be rounded to whole numbers as follows:
 - When the total number of parts authorized is less than one, the quantity authorized will be one.
 - (2) For all values above one, fractional values below 0.5 will revert to the next

lower number, fractional values of 0.5 or larger will advance to the next higher whole number.

- c. The number of parts authorized, determined after application of a and b above, represent one prescribed load for a 15-day period. The items and computed quantities thereof must be on hand or on order at all times.
- d. Major commanders will determine the number of prescribed loads second echelon units and organizations will carry. Unit and organizations authorized additional prescribed loads will utilize the formula explained in a above but will multiply the number of equipments supported by the number of authorized prescribed loads before completing the formula. Fractional values will be rounded to whole numbers as described above.

SECTION II. ORGANIZATIONAL FUNCTIONAL PARTS LIST

PEDERAL STOCK NUMBER		BY MODEL		BY MODEL		Y MODEL DESCRIPTION		UNIT OF ISSUE	EXP	QTY IN UNIT	MAINT	"""	STRATION
5820-082-3491					RADIO SET AN/GRC-106		NX				T		
5935-666-1649	1	T			ADAPTER CONNECTOR UG-306/U: MS35368			1		8	T		
5935-201-3090		T	Ť		ADAPTER, CONNECTOR UG-201A/U: Sig dwg SC-D-72309			1	•	8	T		
5820-497-9644		1	1		BAG CW-206/QR			1	•	2			
5995-349-4844		1	T		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-1852/U (6 ft 6 in)			1	•	7			
5995-985-8005	1	T	T	Ħ	CABLE ASSEMBLY SPECIAL PURPOSE ELECTRICAL CX-10099/U (7 in)		1	1	•		1		
5820-078-4769		1			COVER, ANTENNA: Colvin-Friedman p/n CF-457B			1	•	8	+		
5970-498-3745	1	1			INSULATOR, IN-104:		1	4	•		1		
5820-078-4770	T	T			MAST BASE AB-652/GR			1	•	8			
5820-199-8831	1			T	MAST SECTION MS-116-A		1	3		2	1		
5820-199-8843	T				MAST SECTION MS-117-A	1	1	1	•	2	+		
820-199-8841	T	ľ		1	MAST SECTION MS-118-A		1	1	•	2			
020-073-3276					ROPE, POLYETHELENE: 1/8 in dia, Ashaway p/n 9-CS-0022X (Authorized allowances will be a minimum of or a multiple of 20 ft.)	1	+	40	•		Ť		
940-636-5761				1	TERMINAL LUG: Sherman p/n 316	1	1	4	•	2			
					RECEIVER-TRANSMITTER RT-662/GRC								
820-078-4766					RECEIVER-TRANSMITTER, RADIO RT-662/GRC: Al, A3a, A9c emission, 2-30 mc freq range; one band; 28 v dc; 7 in x 12 in x 18 in o/a	1	1	1		4			
355-727-8506				-	DIAL, CONTROL: rd w/bar face shape; marked 0 to 9 CCN; 1.940 in OD x 0.900 in thk; w/skirt SM-D-500501			3	•	5			
355-727-8500					DIAL, CONTROL; rd w/bar shape face; marked 0 to 9 CCW; 1.940 in OD x 0.900 in thk; 2 blank spaces between 9 and 0 Sig dwg SM-D-500502	1		2	•	5	MP94 MP95		
960-543-0219				T	ELECTRON TUBE: MIL type JAN 6AN5WA		1	1	32.9	6	V2		
960-892-0910				T	ELECTRON TUBE: MIL type JAN 6BZ6	+	+	1	32.9		V1		

AN/GRC-106

FEDERAL	DESIGNATION BY MODEL			DESCRIPTION	UNIT		QTY	MAINT	ILLUSTRATION		
STOCK NUMBER	BY	MODEL	1	DESCRIPTION	ISSUE	EXP	UNIT	ORG ALLOW.			
-	1	\dagger	ľ	AN/GRC-106 (continued)							
5920-280-4960	H	\parallel		PUSE, CARTRIDGE: 2 amp, 250V; type FO2A250V2A			1	•	2		
5355-727-8497		Ħ		KNOB: rd w/bar face; 0.719 in OD x 0.469 in h; f/1/4 in shaft; Vemaline p/n V24-1; Sig dwg SM-C-500407			6	•			
5355-727-8499		T		KNOS: rd w/fin lever shape; 1-3/16 in lg x 7/8 in wd x 15/32 in thk; Vemaline p/n V25-12			2	•			
5960-728-2075				SHIELD ELECTRON TUBE: Sig dwg SM-C-500860			2	•			
				AMPLIFIER RADIO FREQUENCY AM-3349/GRC-106							
5820-078-4771				AMPLIFIER, RADIO FREQUENCY AM-3349()/GRC-106: 2-30 mc freq range output; 400 watts; oper power reqt; 28 v dc dia 8 in x 13 in x 18 in					5		
5960-052-0080				ELECTRON TUBE: MIL type 8322/4CX350F 2A1V1, V2			2	32.8		V1 V2	
5960-777-4320				ELECTRON TUBE: Amperex p/n 8233 (2A8V1)			1	21.9		V1	
5355-613-7120		П		KNOB: MIL type MS91522-1			2	•			
5355-656-1326		П		KNOB: MIL type MS91525-1			3	•			
5960-892-8356				RETAINER, ELECTRICAL SHIELD: F/electron tube shield; 1 in 1g x 1.562 in dia o/a; Int Elec Research Corp #T9-3000-7H			. 1	•			
5960-985-9139				SHIELD, ELECTRON TUBE: 2.188 in 1g x 1.562 in dia o/a; mts on shock shield base; Int Elec Research Corp #T9-3022-5H			1	•			
										1.5	
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54		I									

By Order of the Secretary of the Army:

HAROLD K. JOHNSON, General, United States Army, Chief of Staff.

Official:

J. C. LAMBERT,

Major General, United States Army, The Adjutant General.

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USACDCEA (1) WRAMC (1) 5-147 17-35 USACDCBRA (1) USACDCEC (10) 6-37 17-36 USACDCCEA (1) Instl (2) except 6-185 17-51	7
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USACDCCEA (1) Instl (2) except 6-185 17-51	
77. 27. 27. 27. 27. 27. 27. 27. 27. 27.	
USACDCOA (1) Ft Monmouth (70) 6-168 17-52	
USACDCQMA (1) Ft Hancock (4) 6-200 17-55	
USACDCTA (1) Ft Gordon (10) 6-501 17-56	
USACDCADA (1) Ft Huachuca (10) 7 17-57	
USACDCARMA (1) Ft Carson (25) 7-35 17-75	
USACDCAVNA (1) Ft Knox (12) 7-45 17-10	2
USACDCARTYA (1) WSMR (5) 7-46 29-56	
USACDCSWA (1) Army Pic Cen (2) 11-16 31-10	5
USACDCCEA (Ft Huachuca) (1) Army Dep (2) except SAAD (30), 11-57 37	
USAMC (5) TOAD (14), FTWOAD (10), 11-97 37-10	2
USCONARC (5) LEAD (3), SHAD (3), NAAD 11-98 44-23	5
ARADCOM (5) (5), SVAD (5), CHAD (3), 11-117 44-23	3
ARADCOM Rgn (2) ATAD (10), LBAD (14) 11–155 44–23	7
OS Maj Comd (4) Gen Dep (2) 11-157 55-56	
LOGCOMD (2) Sig Sec, Gen Dep (5) 11-377 55-58	
USAECOM (30) Sig Dep (12) 11-500 (Tms 57	
USAMICOM (4) USAERDAA (2) AA-AE) (4)	
USASMC (2) USAERDAW (13)	
USASCC (4) Sig Fld Maint Shops (2)	

NG: State AG (3).

USAR: None.

For explanation of abbreviations used see AR 320-50.