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DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE MANUAL

RADIO SETS AN/GRC-87 AND AN/VRC-34



*HEADQUARTERS, DEPARTMENT OF THE ARMY
10 APRIL 1963*

Technical Manual }
No. 11-5820-453-20 }

HEADQUARTERS,
DEPARTMENT OF THE ARMY
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RADIO SETS AN/GRC-87 AND AN/VRC-34

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*This manual supersedes so much of TM 11-263, 20 June 1956; C1, 15 October 1957; C2, 29 April 1960; C3, 15 November 1960; C4, 21 December 1961; C5, 23 November 1962; and C6, 8 April 1963 as pertains to organizational maintenance and maintenance allocation chart.

CHAPTER 1 INSTALLATION

Section I. SERVICE UPON RECEIPT OF EQUIPMENT

1. Scope

a. This manual covers installation and second echelon maintenance of Radio Sets AN/GRC-87 and AN/VRC-34. The manual includes disassembly and repackaging instructions for shipment and limited storage of the equipment. The operating instructions are contained in TM11-5820-453-10. The maintenance allocation chart is contained in appendix II.

b. Forward all comments on this publication direct to: Commanding Officer, U. S. Army Electronics Materiel Support Agency, ATTN: SELMS-MP, Fort Monmouth, New Jersey. (DA Form 1598 (Record of Comments on Publications), DA Form 2496 (Disposition Form), or letter may be used.)

Note: For applicable forms and records, refer to paragraph 2, TM 11-5820-453-10.

2. Index of Publications

Refer to the latest issue of DA PAM 310-4 to determine whether there are new editions, changes or additional publications pertaining to your

equipment. Department of the Army Pamphlet No. 310-4 is a current index of Technical Manuals, Technical Bulletins, Supply Bulletins, Lubrication Orders, and Modification Work Orders that are available through publications supply channels. The index lists the individual parts (-10, -20, -35P, etc.) and the latest changes and revisions of each equipment publication.

3. Unpacking

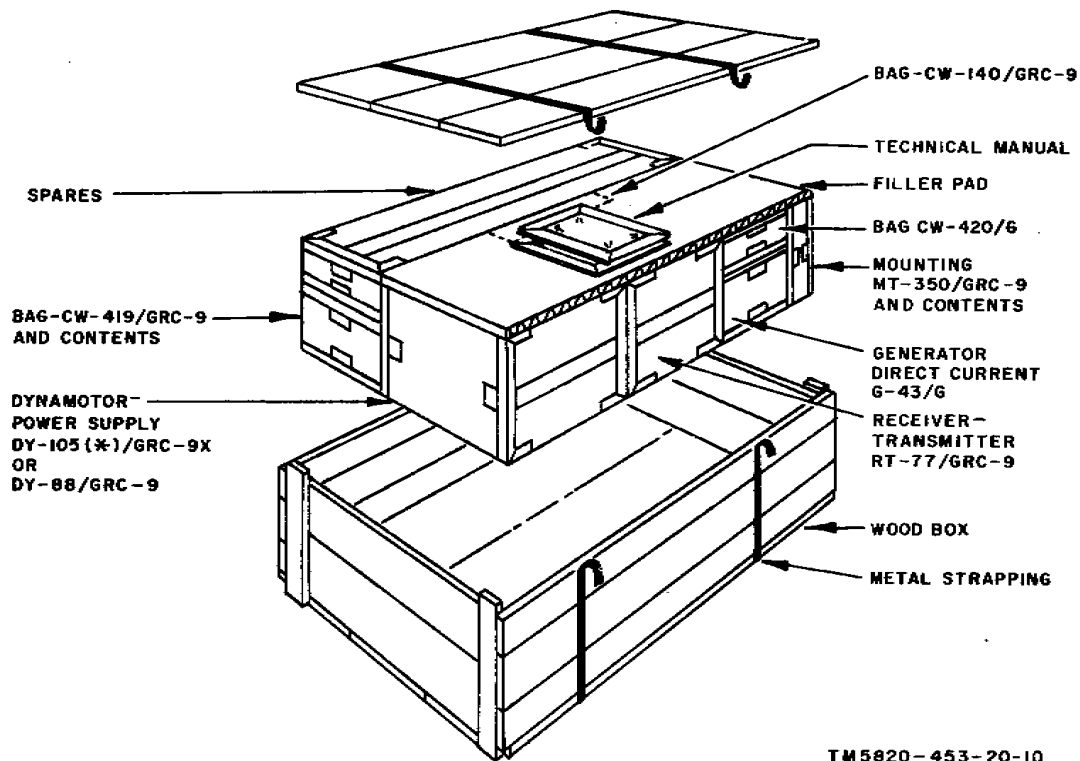
a. *Packaging Data.* For overseas or domestic shipment, the components of the AN/GRC-87 are placed in eight water resistant fiberboard cartons and packed in one wooden box. The components of the AN/VRC-34 are placed in six water resistant fiberboard cartons and packed in one wooden box. Typical packaging for overseas and domestic shipment is shown in figure 1. The dimensions, volume, and contents of each carton and the dimensions volume, and weight of each wooden box are listed in the following charts:

(1) Cartons .

Carton No.		Dimensions (in.)			Volume (cu ft)	Contents
AN/GRC-87	AN/VRC-34	Length	Width	Depth		
1 of 8	1 of 6	10-1/8	13-3/4	8	1.3	Receiver-Transmitter RT-77(*)/ GRC-9
2 of 8	2 of 6	16	13-1/2	10-1/8	1.2	Dynamotor-Power Supply DY-105(*)/ GRC-9X or DY-88/GRC-9
3 of 8	3 of 6	43	7-5/8	5-1/2	1.2	Spars and accessories
4 of 8	4 of 6	13-1/4	2-1/2	16-3/4	0.3	Mounting MT-350/GRC-9
5 of 8	5 of 6	6-3/4	3-5/8	10	0.1	Bag CW-420/GRC-9
	6 of 6	8-1/4	7-5/8	43	1.6	Bag CW-419/GRC-9 and accessories
6 of 8	-----	9-3/4	7-5/8	43	1.8	Bag CW-419/GRC-9 and accessories
7 of 8	-----	19-3/4	13-1/2	2	0.4	Bag CW-140/GRC-9
8 of 8	-----	9-3/4	6-1/2	9-3/4	0.3	Generator, Direct Current G-43/G

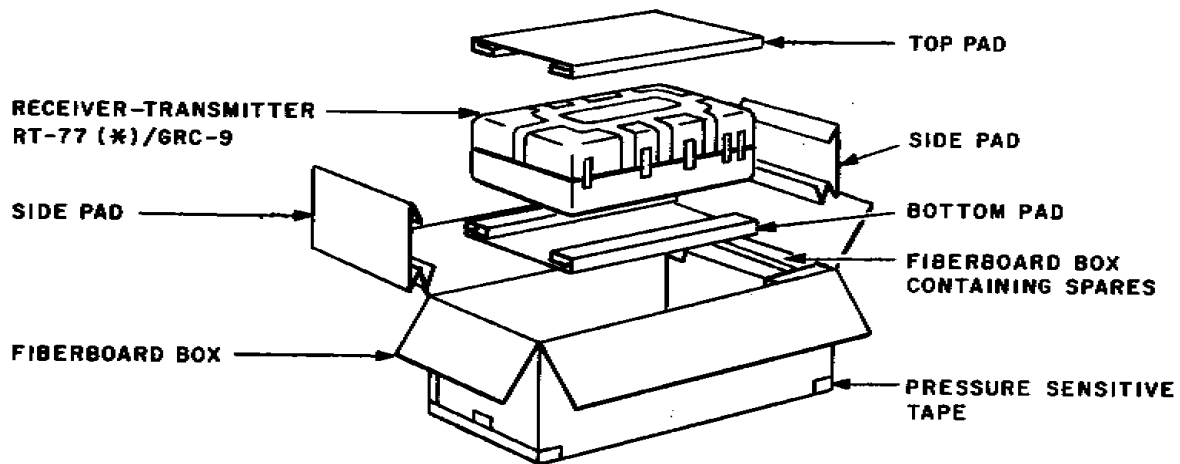
(2) Wooden boxes.

Wooden box No.	Radio Set	Dimensions (in.)			Volume (cu ft)	Weight (lb)
		Length	Width	Depth		
1 of 1	AN/GRC-87	49-1/3	20-3/4	17-1/2	10.2	244
1 of 1	AN/VRC-34	49-3/4	19-7/8	15-3/8	8.7	202



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Figure 1. Radio Set AN/GRC-87 or AN/VRC-34, typical packaging and packing diagram.



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Figure 2. RT-77(*)/GRC-9, typical packaging and packing diagram.

b. Removing Contents. Unpack equipment from the wooden box and fiberboard cartons (fig. 1 through 4) as follows:

- (1) Cut and fold back the steel straps.
- (2) Remove the nails from the wooden cover and remove the wooden cover. Do not attempt to pry off the cover because this may damage the equipment.
- (3) Remove the technical manuals and filler pad.
- (4) Remove the fiberboard cartons (eight for the AN/GRC-87, six for the AN/VRC-34).
- (5) Open each fiberboard carton and remove its contents (fig. 2 through 4). Refer to *a* above for contents of fiberboard cartons.