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DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE MANUAL

INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS

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

CONTROL, FREQUENCY SELECTOR

C-2742/VRC

AND

CONTROL, RADIO SET

C-2299/VRC

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DEPARTMENTS OF THE ARMY AND THE NAVY

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TECHNICAL MANUAL  
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DEPARTMENTS OF THE ARMY  
AND THE NAVY  
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**DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE  
MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS  
CONTROL, FREQUENCY SELECTOR C-2742/VRC  
AND  
CONTROL, RADIO SET C-2299/VRC**

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\*This manual supersedes so much of TM 11-5820-401-35, 2 May 1962, including changes as pertains to Control, Frequency Selector C-2742/VRC and Control, Radio Set C-2299/VRC.

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CHAPTER 1  
INTRODUCTION

1-1. Scope

- a. This manual covers direct support (DS), general support (GS), and depot maintenance of Control, Frequency Selector C-2742/VRC (fig. 1-1) (ch. 2) and Control, Radio Set C-2299/VRC (fig. 1-2) (ch. 3). Repair parts lists for the controls are provided in appendixes B and C.
- b. Operation, operator, and organizational maintenance, and organizational repair parts are provided in TM 11-5820-401-12.

1-2. Maintenance Forms and Records

Department of the Army forms and procedures used for equipment maintenance will be those prescribed in TM 38-750.

1-3. Reporting of Errors

The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be made on DA Form 2028 (Recommended Changes

to Publications) and forwarded direct to Commander, US Army Electronics Command, ATTN: AMSEL-MA-CR, Fort Monmouth, N.J. 07703.

1-4. Official Nomenclature and Common Names

- a. *Official Nomenclature.* Official nomenclature followed by (\*) indicates all models of the equipment; thus-
  - (1) Receiver-Transmitter, Radio RT-246- (\*)/VRC represents RT-246/VRC and RT-246A/VRC.
  - (2) Receiver-Transmitter, Radio RT-524-VRC represents RT-524/VRC and RT-524A/VRC.
  - (3) Receiver, Radio R-442(\*)/VRC represents R-442/VRC and R-442A/VRC.

- b. *Common Names.* The following common names are used to represent the indicated equipment:

| Item                                                                                                                           | Common name                                                                            | Publication       |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------|
| Radio Sets AN/VRC-12 and AN/VRC-43 through AN/VRC-49.                                                                          | AN/VRC-12-series radios.                                                               | TM 11-5820-401-12 |
| Receiver-Transmitter, Radio RT-246(*)/VRC or RT-524 (*)/VRC.                                                                   | Receiver-transmitter.                                                                  | TM 11-5820-401-12 |
| Microphone, Dynamic M-80/U; Headsets H-140A/U and H-251/U; Headset-Microphone H-1 161/U; Loudspeaker LS-454/U; and CVC helmet. | Audio accessories is a term used in this manual to apply to these and similar devices. |                   |
| Combat Vehicle Crewman Helmet T56-6 with Headset-Microphone Kit MK-1039/U as the audio accessory installed in it.              | CVC helmet.                                                                            |                   |

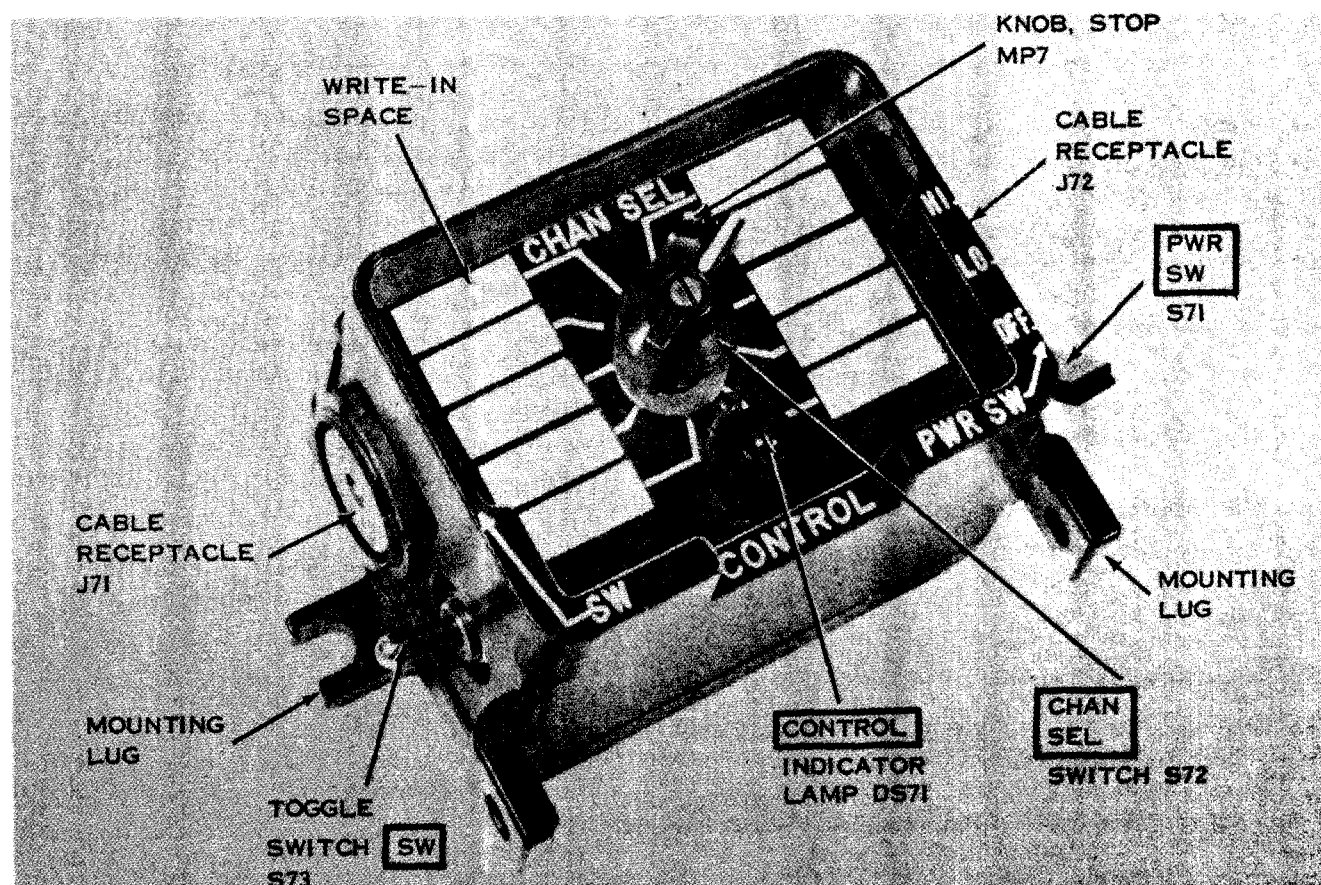
1-5. Purpose and Use

- a. *Control, Frequency Selector C-2742/VRC* (fig. 1-1). The C-2742/VRC is used with the RT-246(\*)/VRC (fig. 2-1) to provide remote automatic selection of the 10 present frequencies that

- have been set up in the RT-246 (\*)/VRC. It can also turn off the power to the RT-246 (\*)/VRC and turn it on again to control the radio frequency (RF) output power (high and low) of the RT-246(\*)/VRC,
- b. *Control, Radio Set C-2299/VRC* (fig. 1-2).

The C-2299/VRC is used with the receiver-transmitters of Radio Sets AN/VRC-49 and AN/VRC-45 to enable the radios to perform automatic re-

transmission of signals between radios that are too far apart to communicate directly with each other.



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Figure 1-1. Control, Frequency Selector C-2742/VRC.