

TECHNICAL MANUAL

**OPERATOR'S ORGANIZATIONAL, DIRECT SUPPORT
AND GENERAL SUPPORT MAINTENANCE MANUAL**

**HEAD-MICROPHONE KIT MK-1697/G
(NSN 5965-00-313-8958)**

**This copy is a reprint which includes current pages from Changes
1 and 2.**

HEADQUARTERS, DEPARTMENT OF THE ARMY

22 JANUARY 1974

Technical Manual

No. 11-5965-286-14

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 22 January 1974

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CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope (fig. 1-1)

This manual describes Headset-Microphone Kit MK-1697/G and covers its installation, operation, and organizational, direct, and general support- maintenance. It includes cleaning and inspection of the equipment, and replacement of parts available to organizational, DS, and GS maintenance personnel.

1-2. Index of Technical Publications

Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, additional publications or modification work orders pertaining to the equipment.

1-3. Maintenance Forms, Records, and Reports

a. *Reports of Maintenance and Unsatisfactory Equipment.* Department of the Army forms and procedures for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System.

b. *Report of Packaging and Handling Deficiencies.* Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/DLAR 4140.55/NAVMATINST 4355.73/AFR 400-54/MCO 4430.3E.

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 4610.33B/AFR 75-18/MCO P4610.19C/DLAR 4500.15.

1-3.1. Reporting Errors and Recommending Improvements

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Commander, US Army Communications-Electronics Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. In either case, a reply will be furnished direct to you.

1-3.2. Reporting Equipment Improvement Recommendations (EIR)

If your Headset-Microphone Kit MK-1697/G needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it to Commander, US Army Communications- Electronics Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. We'll send you a reply.

1-4. Destruction of Army Electronic Materiel

Demolition and destruction of electronic equipment will be under the direction of the commander and in accordance with TM 750-244-2,

1-5. Administrative Storage

For procedures, forms and records, and inspections required during administrative storage of this equipment, refer to TM 740-90-1.

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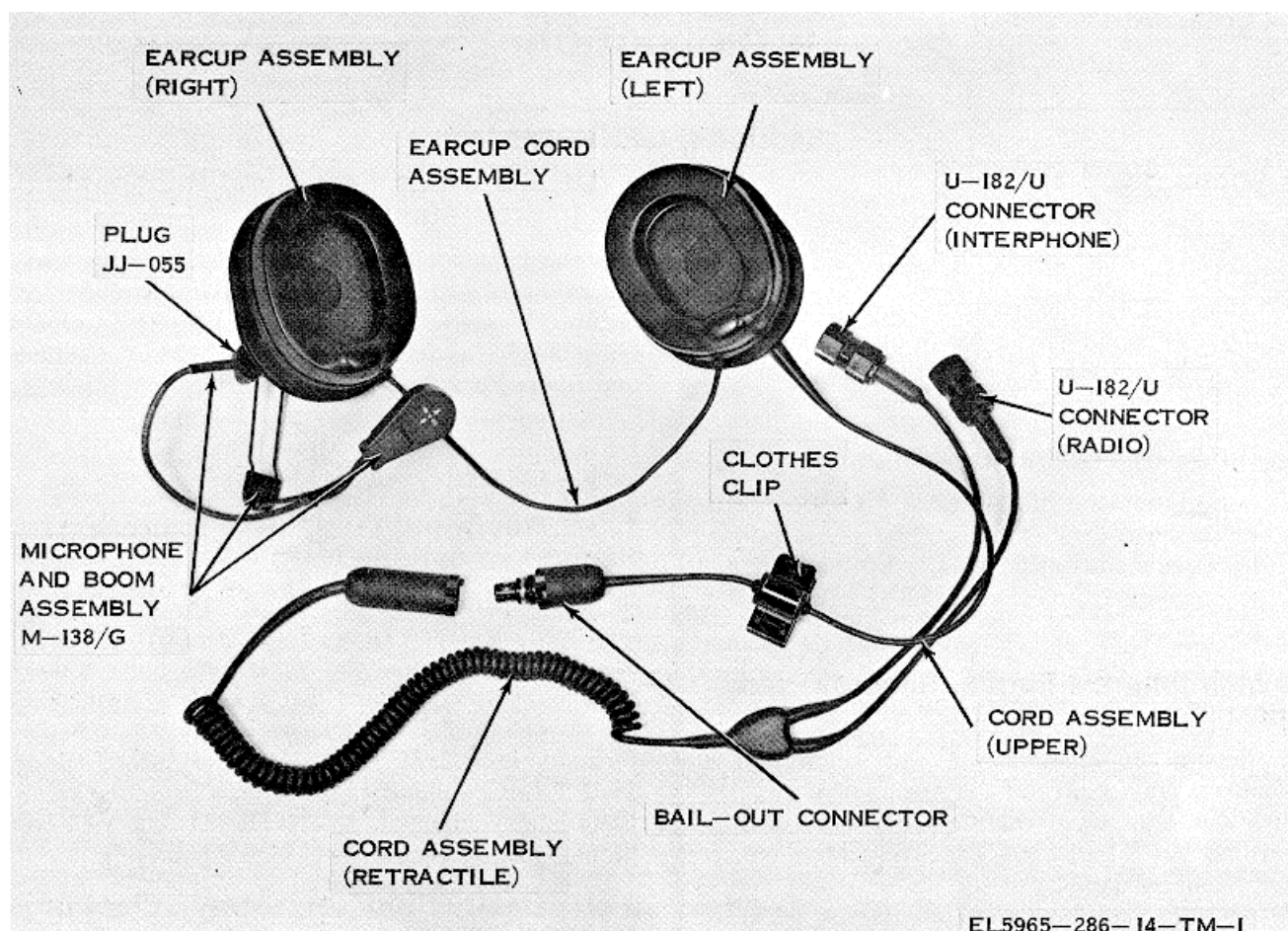


Figure 1-1. Headset-Microphone Kit MK-1697/G.

Section II. DESCRIPTION AND DATA

1-6. Purpose and Use

Headset-Microphone Kit MK-1697/G, a direct replacement for MK-1039/G, is used with Radio Sets AN/VRC-43 through AN/VRC49, AN/VRC-53, and AN/VRC-125. The kit is installed in combat vehicle crewmen's helmets and is connected to vehicular combat radio equipment by two 5-pin Connectors, Plug, Electrical U-229/U. It is used by the operator for two-way communication over the radio system or over the intercommunication system.

1-7. Technical Characteristics

Frequency response	300 to 3500 Hertz (Hz).
Earphones	Dynamic.
Earphone Impedance	1,000 ohms.
Microphone	Dynamic.
Microphone Impedance	150 ohms.

Operating Temperature + 150(F (66° C) to -400 F (40' C).

1-8. Description of Headset-Microphone Kit MK-1697/G

(fig. 1-2 and 1-3)

a. *Headset.* The headset consists of two earphones (dynamic) mounted in ear cups. The earphones are connected electrically by wiring between the ear cups and through the main cable to the radio.

b. *Microphone Boom Assembly.* The microphone boom assembly consists of Microphone, Dynamic M-138/G encased in a holder, a ball joint assembly, an adjustable boom, and a microphone cord with Plug JJ-055 attached. The microphone boom assembly is attached directly to the right ear

Change 1 1-2

cup. The boom may be adjusted by loosening or tightening the microphone boom adjusting knob (fig.1-3).

c. *Switch Assembly.* (fig. 1-2). The switch assembly consists of a radio-interphone switch assembly and a switch handle, both mounted in the left ear cup.

d. *Upper Cord Assembly.* The upper cord assembly consists of a six-conductor cord, a clothes clip, and the male half of the bail-out connector. The upper end is secured to the switch assembly; the other end terminated on the male half of the bailout connector.

e. *Lower Cord Assembly.* The lower cord assembly consists of retractile cord, assembly with the female half of the bailout connector on one end, and two branches, each terminating in Connector, Plug, Electrical U-229/U on the other end. The U-229/U plugs are used to connect the headset and the microphone to mating receptacles on the vehicle radio and interphone equipment.

1-9. Items Comprising An Operable Headset-Microphone Kit MK-1697/G

Headset-Microphone Kit MK-1697/G comprises an operable equipment.

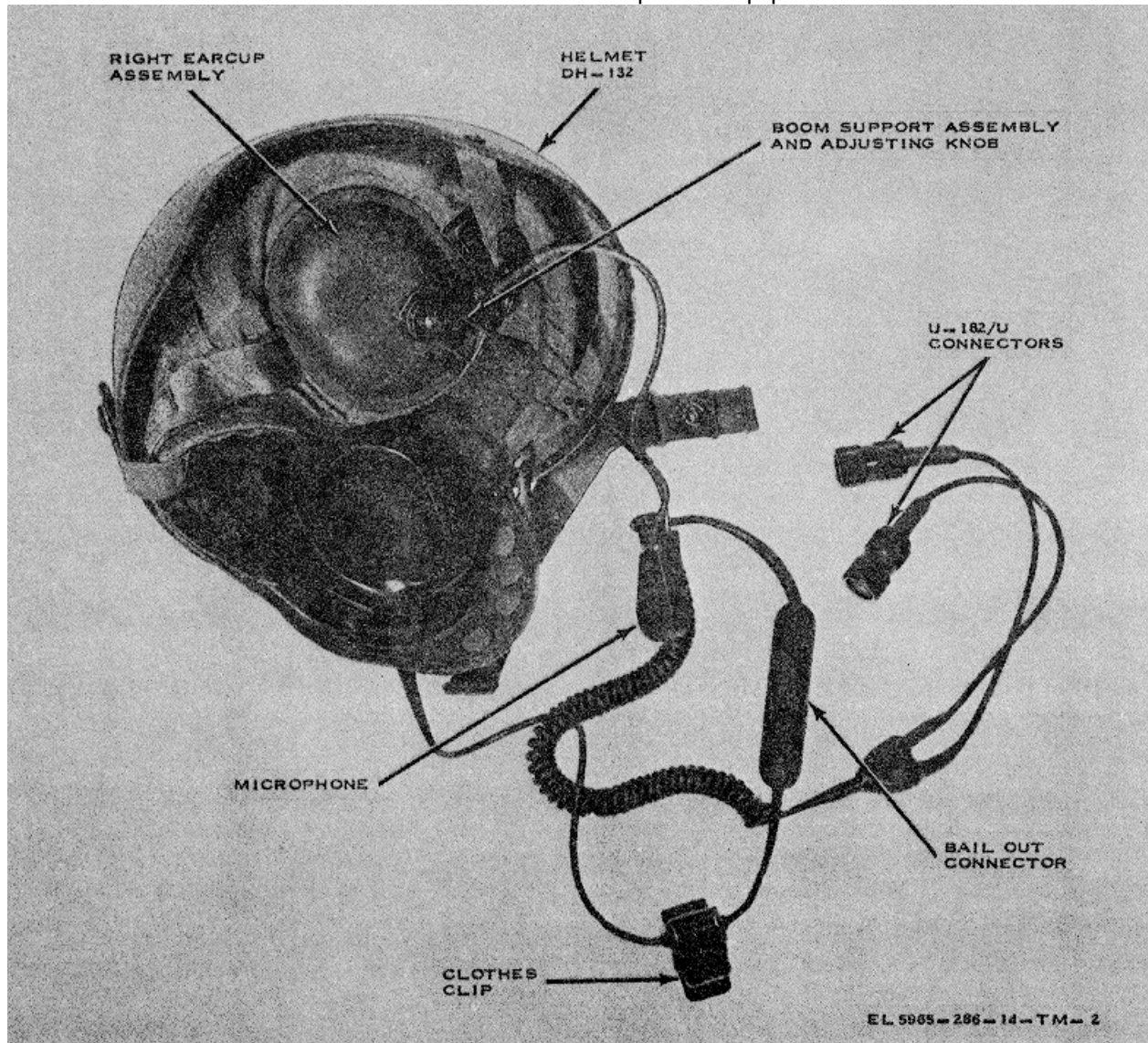


Figure 1-2. Headset-Microphone Kit MK-1697/G installed in combat vehicle crewman's helmet DH-132, showing switch handle assembly mounted on left earcup.