

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

Operator, Organizational, DS, GS, and Depot
Maintenance Manual

HEADSET-MICROPHONE H-182/PT

Headquarters, Department of the Army, Washington, D.C.
4 March 1968

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

CHAPTER I

INTRODUCTION

1-1. Scope

a. This manual describes Headset-Microphone H-182 PT and covers equipment installation, operation, functioning, and maintenance. Appendix A contains a list of publications applicable to this manual. Appendix B contains the list of major components required for initial operation. Appendix C contains the assignment of maintenance functions and repair operations to be performed at the appropriate maintenance levels.

b. Appendixes B and C are current as of 17 January 1968.

1-2. Indexes of Equipment Publications

a. *DA Pam 310-4*. Refer to DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. *DA PAM 310-7*. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWOs) pertaining to the equipment.

1-3. Forms and Records

a. *Reports of Maintenance and Unsatisfactory Equipment*. Use equipment forms and records in accordance with instructions given in TM 38-750.

b. *Report of Packaging and Handling Deficiencies*. Fill out and forward DD Form 6 (Report of Packaging and Handling Deficiencies) as prescribed in AR 700-58 (Army), NAVSUP Publication 378 (Navy), AFR 71-4 (Air Force), and MCO P4610-5 (Marine Corps).

c. *Discrepancy in Shipment Report (DISREP) (SF361)*. Fill out and forward Discrepancy in Shipment Report (DISREP) (SF361) as prescribed in AR 55-38 (Army), NAVSUP Pub 459 (Navy), AFM 75-34 (Air Force), and MCO P4610.19 (Marine Corps).

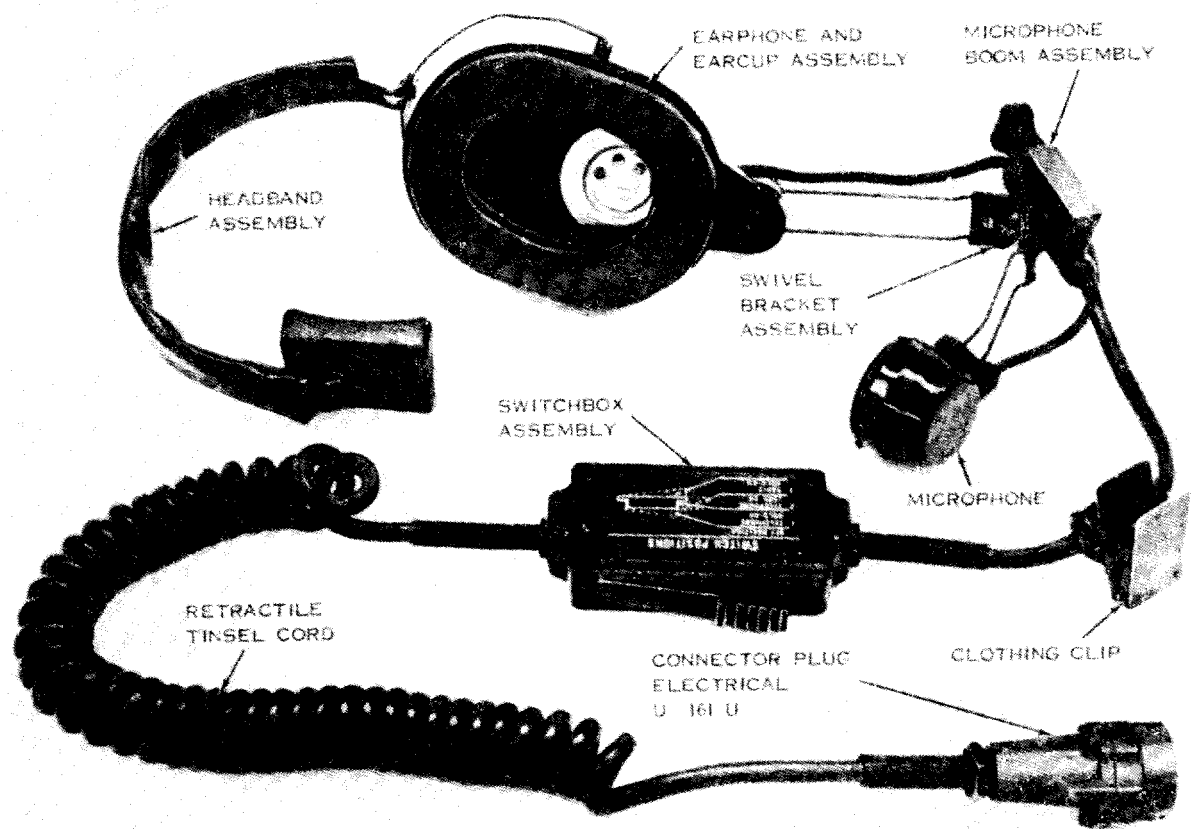
d. *Reporting of Equipment Manual Improvements*. Report of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to DA Publications) and forwarded direct to Commanding General, U.S. Army Electronics

Command, ATTN: AMSEL-ME-NMP-AD, Fort Monmouth, N.J., 07703.

1-4. Purpose and Use

(fig. 1-1)

The H-182 PT is a lightweight headset-microphone used with Telephone Set TA-312 PT and Manual Telephone Switchboard SB-22A PT to continuously monitor telephone or radio signal transmissions. The earphone portion of the H-182 PT is thin enough to slip under Combat Helmet M1.



TM 5965 283 15 J

Figure 1-1. Headset-Microphone H-182/PT.

1-5. Technical Characteristics

Frequency response. 800 to 4,000 cps.
Microphone impedance. 15 ohms.
Microphone dc resistance. 350hms.
Earphone impedance. 150hms.
Output level. 46 db above 1 milli-watt.

1-6. Description

Headset-Microphone H-182/PT is comprised of the assemblies described in *a* through *e* below.

a. Earphone and Earcup Assembly. The earphone and earcup assembly consists of Receiver Element TA-235/PT, a high-impact plastic earcup, a two-conductor terminal block and cover plate, and a soft-rubber ear cushion.

b. Boom Microphone Assembly. The boom microphone assembly consists of a high-impact plastic boom case containing a carbon microphone element, a ball and socket device, a wire loop, and a swivel bracket assembly.

c. Switchbox Assembly. The switchbox assembly consists of a high-impact plastic case housing, a push-to-talk lever and bar-actuated switch, a cover assembly, and a clothing clip.

d. Headband Assembly. The adjustable, flexible, headband assembly consists of a tubular, plastic-covered headband, a fold-away earphone adjusting assembly, and a cushion adjusting assembly.

e. Cord Assembly. The cord assembly consists of a two-conductor straight cord with solderless connectors, a four-conductor straight cord with stay cords and solderless connectors, and a seven-conductor retractile tinsel cord with stay cords and solderless connectors on one end and a Connector Plug, Electrical U-161/U on the other end.

1-7. Installation and Operating Instructions

(fig. 1-1 and 1-2)

a. Headset Installation.

(1) Extend the fold-away earphone adjusting assembly and cushion adjusting assembly to their outward limits.

(2) Place the headband assembly on the head.

(3) Hold the earphone and earcup assembly (para 1-6a) in place over the ear and press down on the crown of the headband to slide the headband assembly smoothly into position.

(4) Position the cushion adjusting assembly for the maximum degree of comfort.

(5) Readjust both assemblies ((3) and (4) above) for maximum comfort.

(6) Loosen the tension nut on the swivel bracket assembly (para 1-6b).

(7) Adjust the microphone boom assembly so that the microphone is approximately one-half inch from the lips.

(8) Tighten the tension nut ((6) above) on the swivel bracket assembly.

(9) Insert Connector Plug, Electrical U-161/U into the proper receptacle on the equipment and slowly rotate the connector clockwise with a steady forward pressure.

(10) When the guide pins of the connector ((9) above) are in the proper grooves, the connector will move forward and seat itself.

(11) Twist the knurled portion of the connector to the right and pull sharply to set the connector.

b. Operating Procedures. The four positions of the H-182/PT push-to-talk lever and bar-actuated switch are illustrated in figure 1-2 and are described in (1) through (4) below.

(1) *Monitoring telephone or radio transmission (position No. 1).*

(a) Operate the appropriate switching mechanism on the associated (external) equipment to energize the incoming telephone or radio circuit transmission.

(b) Disengage the switchbox locking mechanism (if previously locked) by sliding the push-to-talk lever downward.

(c) Release the push-to-talk lever to position No. 1.

(2) *Monitoring telephone transmissions (position No. 2).*

(a) Operate the appropriate switching mechanism on the associated (external) equipment to energize the outgoing telephone circuit.

(b) Squeeze the push-to-talk lever so that it is depressed against the bar-actuated switch.

Caution: Do not apply pressure with a force great enough to engage the bar-actuated switch.

(c) Hold the push-to-talk lever in the depressed position ((b) above) throughout the transmission.

(3) *Continuous telephone transmission (position No. 3).*