

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR AND ORGANIZATIONAL MAINTENANCE MANUAL
 TEST HARNESS, RADIO SET AN/URM-157

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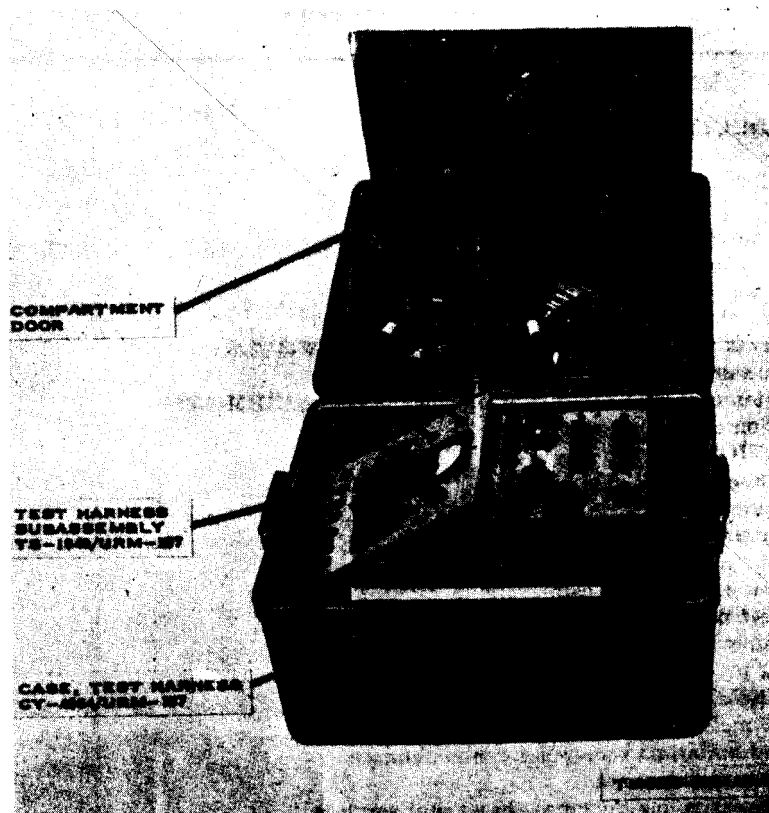


Figure 1-1. Test Harness, Radio Set AN/URM-157.

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope of Manual

This manual describes Test Harness, Radio Set AN/URM-157 (fig. 1-1) (Collins type 678P-2) and covers its operation and operator and organizational maintenance. The manual includes operation under usual and unusual conditions, cleaning and inspection of the equipment, and replacement of parts available to organizational maintenance personnel.

1-2. Index of Publications

Refer to the latest issue of DA Pamphlet 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment. Department of the Army Pamphlet No. 310-4 is an index of current technical manuals, technical bulletins, supply manuals (types 4, 6, 7, 8, and 9), supply catalogs (type CL), 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 to and revisions of each equipment publication.

1-3. Forms and Records

a. Report of Unsatisfactory Equipment. Use equipment forms and records in accordance with instructions in TM 38-750.

b. Report of Damaged or Improper Shipment. Fill out and forward DD Form 6 (Report of Damaged or Improper Shipment) as prescribed in AR 700-58 (Army), NAVSANDA Publication 378 (Navy), and AFR 71-4 (Air Force).

c. Reporting Equipment Manual Improvement. The direct reporting, by the individual user, of errors, omissions, and recommendations for improving this equipment manual is authorized and encouraged. DA Form 2028 will be used for reporting these improvements. This form may be completed by the use of pencil, pen, or typewriter. DA Form 2028 will be completed in triplicate and forwarded by the individual using the manual. The original and one copy will be forwarded direct to: Commanding General, U.S. Army Electronics Command, ATTN: AMSEL-MR-MA, Fort Monmouth, New Jersey 07703. One information copy will be furnished to the individual's immediate supervisor (officer, noncommissioned officer, supervisor, etc).

Section II. DESCRIPTION AND DATA

1-4. Purpose and Use

a. Purpose. Test Harness, Radio Set AN/URM-157 (fig. 1-1) (Collins type Test Harness 678P-1 and transit case, which together are designated a 678P-2) provides the means of connecting and controlling Receiver-Transmitter, Radio RT-698/ARC-102 (Collins type 618T-3) to facilitate testing, troubleshooting, and aligning the receiver-transmitter. The AN/URM-157 controls power, radiofrequency (rf), and audio signals and facilitates interconnection of system units. An rf wattmeter for measuring

transmitter power output is incorporated in the AN/URM-157.

b. Use. The AN/URM-157 is used by the repairman to perform bench troubleshooting of the RT-698/ARC-102 (Collins type 618T-3).

1-5. Technical Characteristics

a. General.

Ambient temperature range:

Operating	0° C to +50° C.
Nonoperating	0° C to +50° C.