DEPARTMENT OF THE ARMY TECHNICAL MANUAL

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

RADIO SETS AN/URC-10, AN/URC-10A, AND ACR RT-10

This copy is a reprint which includes current pages from Changes 1 through 5.

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OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT, GENERAL SUPPORT AND DEPOT MAINTENANCE MANUAL
RADIO SETS AN/URC-10, AN/URC-10A, AND ACR RT-10

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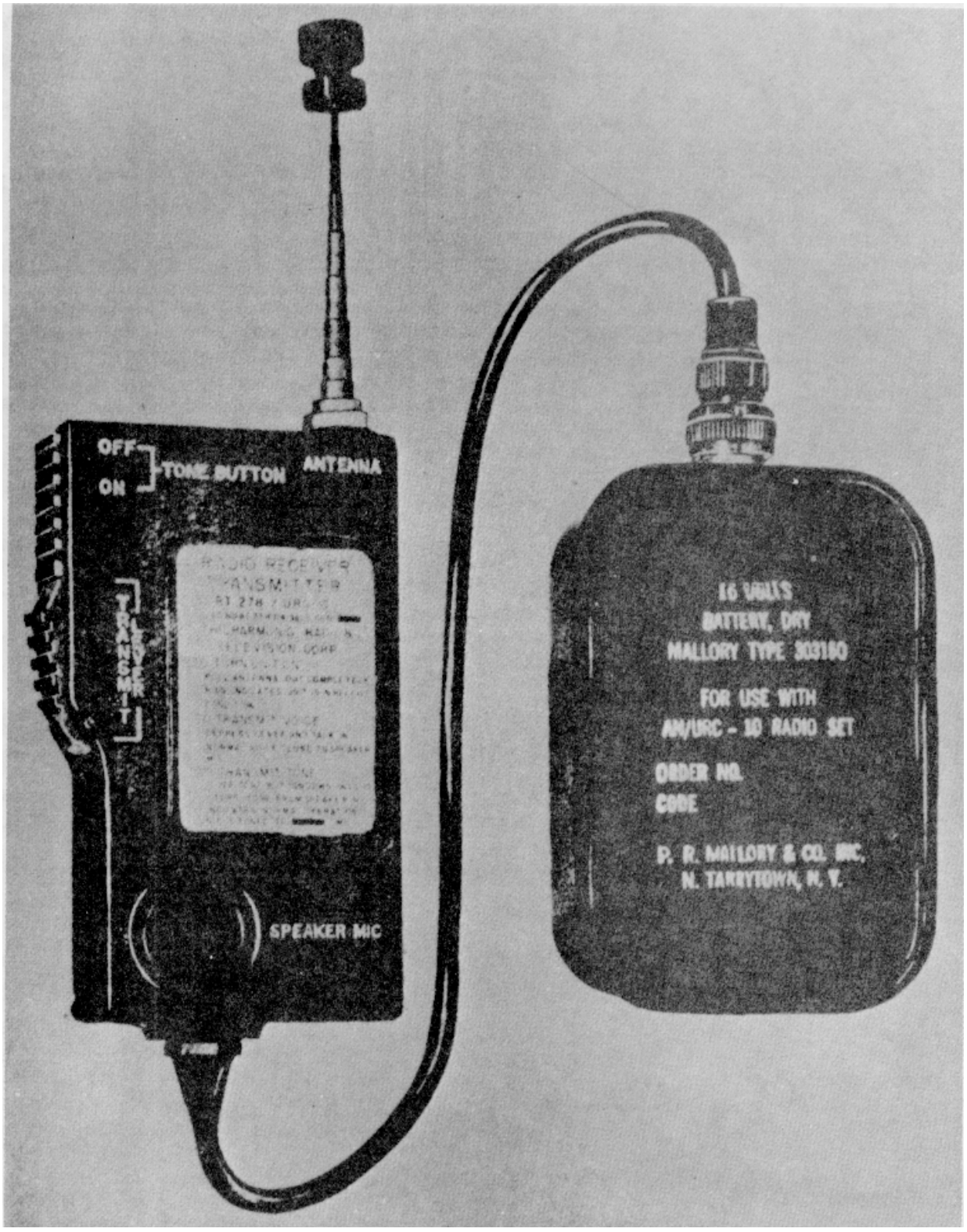

Figure 1-1. Radio Set AN/URC-10 (Receiver-Transmitter RT-278)

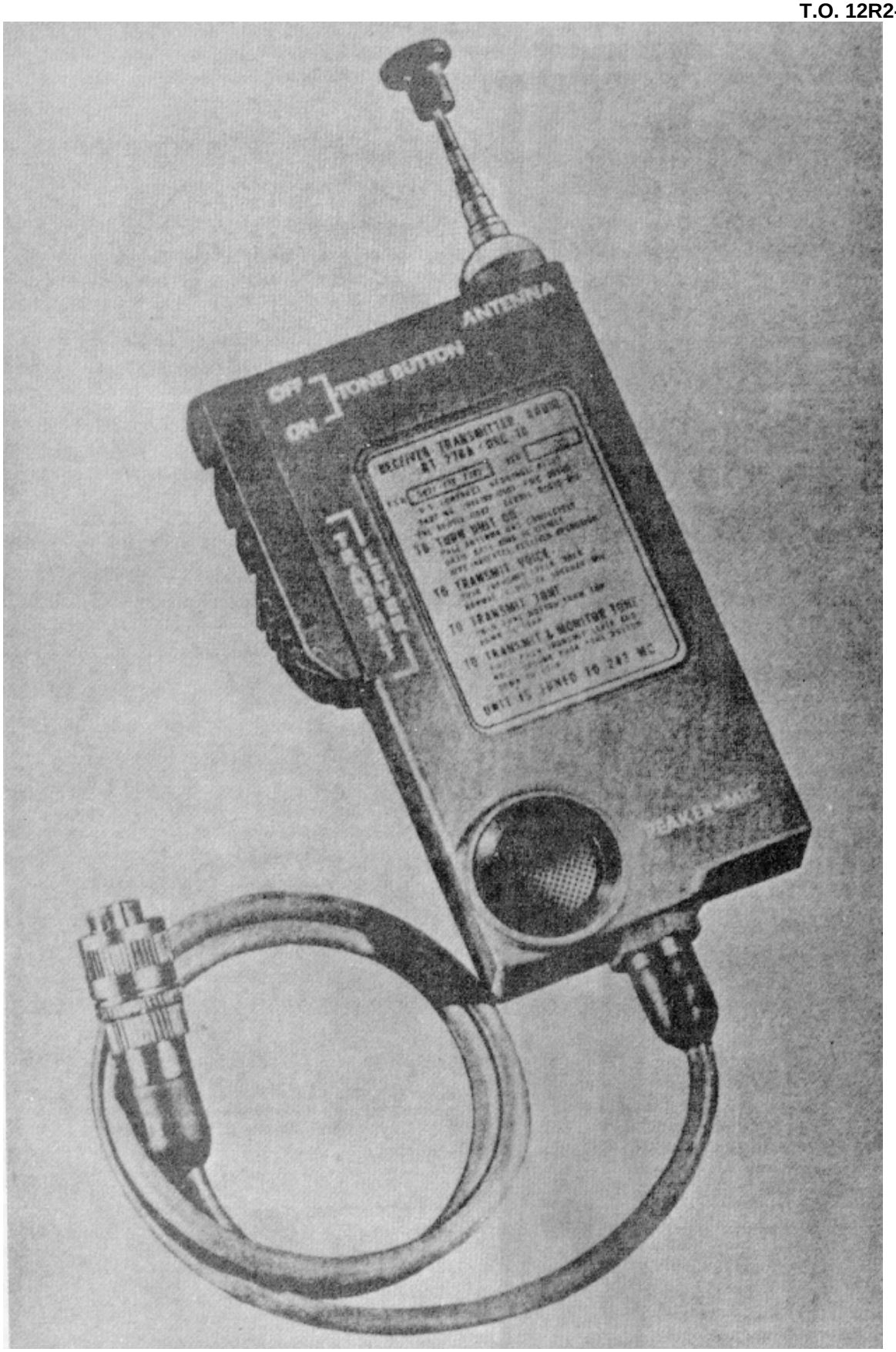

Figure 1-2. Receiver-Transmitter RT-278A/URC-10

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SECTION I
INTRODUCTION AND DESCRIPTION

1-1. Scope

This manual provides instructions for operation, maintenance, and functioning of the radio sets indicated below:

Receiver-Transmitter, Radio RT-278/URC-10
Receiver-Transmitter, Radio RT-278A/URC-10
Receiver-Transmitter, Radio ACR RT-10
Receiver-Transmitter, Radio RT-278B/URC-10A

Refer to figures 1-1, 1-2, 1-3, and 1-3.1, respectively, for illustrations of the above equipment. Appendixes include the maintenance allocation chart, and illustrated parts lists.

1-2. Indexes of Publications

a. DA Pam 810-4. Refer to the latest issue of 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 (MWO's) pertaining to the equipment.

1-2.1. Forms and Records

a. Reports of Maintenance and Unsatisfactory Equipment. Maintenance forms, records, and re- ports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

b. Report of Packaging and Handling Deficiencies. Fill out and forward DD Form 6 (Report of Packaging and Handling Deficiencies) as pre- scribed in AR 700-58 (Army)/NAVSUP PUB 378 (Navy)/AFR 71-4 (Air Force)/and MCO P4030.29 (Marine Corps).

c. Discrepancy in Shipment Report (DISREP) (SF S61). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 5538 (Army)/NAVSUP PUB 459 (Navy)/ AFM 75-34 (Air Force)/and MCO P4610.19 (Marine Corps).

1-2.2. Reporting of Equipment Publication Improvements

The reporting 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 Publications) and forwarded direct to: Commander, US Army Electronics Command, ATTN: AMSEL-MA-C, Fort Monmouth, NJ 07703.

1-3. Unless otherwise specified, all information given herein applies to all four radio sets.

1-4. Purpose

1-5. The radio set is a portable radio receiver-transmitter designed to transmit and receive voice signals on the frequencies reserved, for air-sea- rescue. The transmitter also emits a tone-beacon signal for homing use. This tone-beacon signal may be manually locked-in during unattended operation.

1-6. General Characteristics

1-7. The radio set is a lightweight, compact, battery-operated portable unit which uses modular construction for basic circuit functions to simplify maintenance and replacement procedures.

1-8. Four encapsulate modules are utilized: Receiver module; transmitter module; audio module; and tone generator module. Interconnections are accomplished by a printed circuit board which provides mating module connectors. The waterproof case is provided with speaker/microphone, antenna (including an ON/OFF switch), a function switch and a tone switch. Battery power is provided through an external battery connected to the radio set by a waterproof cable (RT-278/URC-10 and RT-278A/URC-10, figures 1-1 and 1-2, respectively); or by an integral battery pack (ACR RT-10 and RT-278B/URC-10A) only (figures 1- and 1-3.1 respectively.