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US MARINE CORPS TM 08168A-14/1

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

TEST SET TS-3354/PRC-68

(NSN6625-01-091-3157)

DEPARTMENTS OF THE ARMY AND THE US MARINE CORPS

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TECHNICAL MANUAL
No. 11-6625-2946-14 (Army)
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DEPARTMENTS OF THE ARMY
AND THE US MARINE CORPS
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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, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in back of this manual direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703.

Marine Corps Units should submit NAVMC 10772.

In either case, a reply will be furnished direct to you.

LIST OF ILLUSTRATIONS

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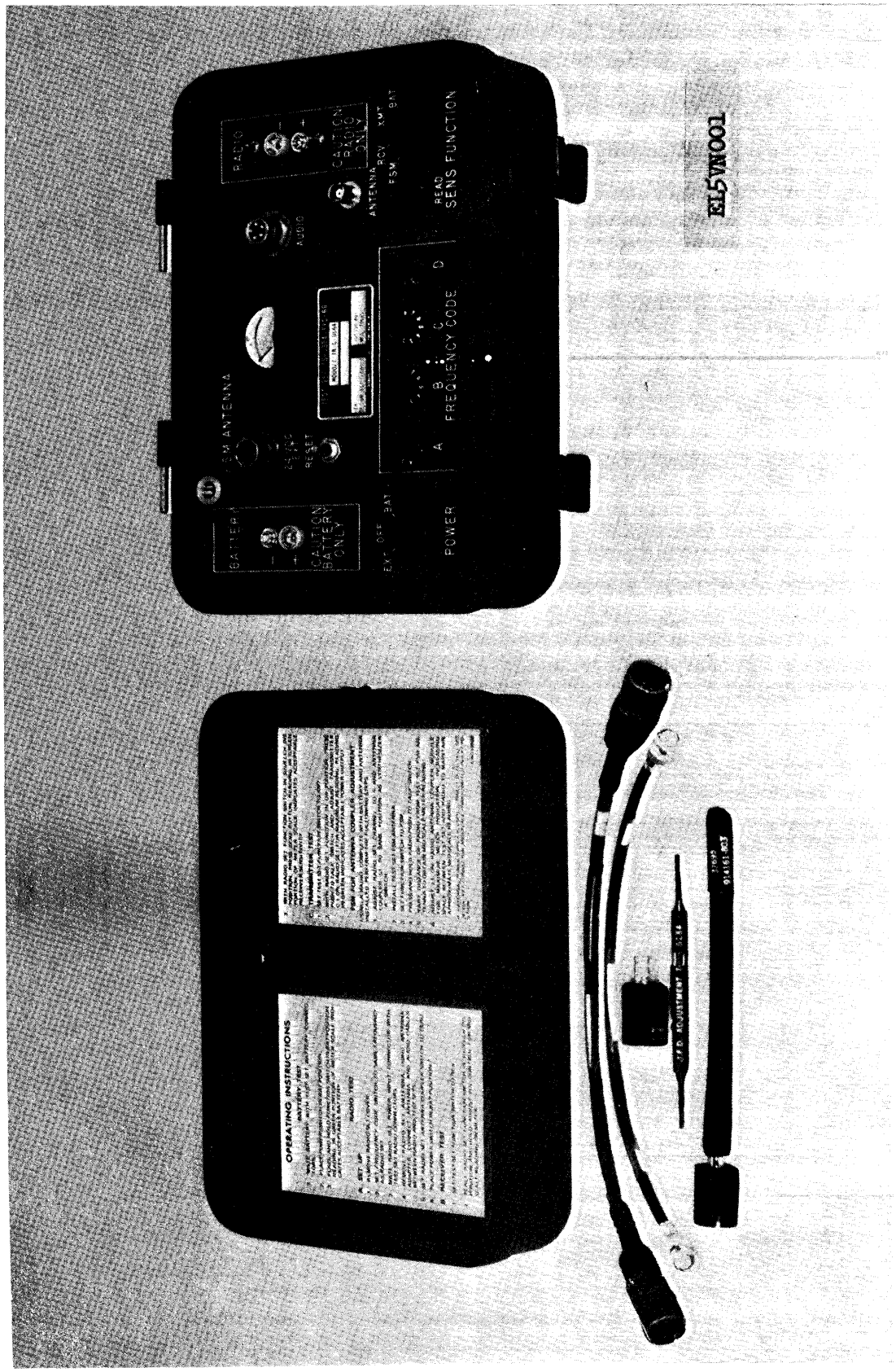

Figure 1-1. Test Set TS-3354/PRC-68

CHAPTER 1
INTRODUCTION

Section 1. GENERAL

1-1. Scope

This manual contains operating and maintenance instructions for Test Set TS-3354/PRC-68 (fig. 1-1) at the Operator (Echelon 1 Maintenance), Organizational (Echelon 2 Maintenance), and General Support (Echelon 4 Maintenance) levels. Direct Support maintenance is not authorized.

1-2. Indexes of Publications

a. DA Pam 310-4. Refer to 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.

1-3. Maintenance Forms, Records and Reports

a. Reports of Maintenance and Unsatisfactory Equipment. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750, the Army Maintenance Management System. Marine Corps should refer to current edition of TM 4700-15/1.

b. Report of Item and Packaging Discrepancies. Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/NAVSUPINST 4440.127E/AFR 400.54/MCO 4430E and DSAR 4140.55.

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/ NAVSUPINST 4610.33 B/AFR 75-18/MCO P4610.19C and DLAR 4500.15.

1-4. Destruction of Army Electronics Materiel.

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

1-5. Administrative Storage

Administrative storage of equipment issued to and used by Army activities will have preventive maintenance performed in accordance with the PMCS charts before storing. When removing the equipment from administrative storage, the PMCS should be performed to assure operational readiness. Disassembly and repacking of equipment for shipment or limited storage are covered in paragraphs 3-4 and 3-5.

1-6. Reporting Equipment Improvement Recommendations (EIR)

If your Test Set TS-3354/PRC-68 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 and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. We'll send you a reply.

Section II. DESCRIPTION AND DATA

1-7. Purpose and Use

The Test Set TS-3354/PRC-68 (test set), is a portable auxiliary test set used primarily for in-the-field maintenance of Radio Set AN/PRC-68. The test set provides capability for the measurement of the radio set battery condition, receiver sensitivity, and transmitter power output without the need for additional common or special test equipment items. When operated in the portable or field mode, the battery of the radio set under test provides the + 14 vdc input power for both the test set and the radio set. The test set may also be operated from an external +24 vdc source, which it reduces to a + 14 vdc regulated level to provide power for both itself and the radio set under test.

1-8. Description

The test set is mounted in a waterproof, removable cover, portable fiberglass case. The input circuit breaker and all operating controls, input and output connectors, and indicators, are located on the test set front panel.