

TECHNICAL MANUAL

OPERATOR'S AND ORGANIZATIONAL

MAINTENANCE MANUAL

SIMULATOR, RADAR

SIGNAL SM-674/UPM

(NSN 6940-01-031-5887)

AND

TEST ADAPTER, RADAR

SIGNAL MX-9848/APR-39(V)

(NSN 5841-01-025-0379)

HEADQUARTERS, DEPARTMENT OF THE ARMY

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TEST ADAPTER, RADAR SIGNAL MX-9848/APR-39(V)

(NSN 5841-01-025-0379)

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 Forma), or DA form 2028-2 located in the back of this manual direct to: Commander, US Army Communication-Electronic Command and Fort Monmouth, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703.

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

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1 Scope.

a. This manual describes and provides instructions for operation and organizational maintenance for Simulator, Radar Signal SM-674/UPM (figs. 1-1 and 1-2) and Test Adapter, Radar Signal MX-9849/APR-39(V) (fig. 1-3), items of special test equipment for Detecting Set, Radar Signal AN/APR-39(V). It includes instructions for preventive maintenance, testing, troubleshooting, and replacement of parts available at organizational maintenance level. It also lists the tools, materials, and test equipment required. A related classified manual, TM 11-6940-211-34, supplements this manual and contains classified information and higher category maintenance instructions for the SM-674/UPM and MX-9848/APR-39(V).

b. The organizational maintenance functions for the SM-674/UPM in this manual include Aviation Unit Maintenance functions and are to be performed by Aviation Unit Maintenance (AVUM) personnel. Organizational maintenance functions for the MX-9848/APR-39(V) in this manual are to be performed by direct/general support maintenance (Aviation Intermediate Maintenance (AVIM)) personnel.

c. Repair parts and special tools list are contained in TM 11-6940-211-24P.

d. Prescribed maintenance responsibilities apply as indicated in the maintenance allocation chart provided in Appendix B.

1-2. Index of Technical Publication

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.

1-3. Maintenance Forms, Records, and Reports

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

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.

1-4. Destruction of Army Electronic 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 information is contained in TM 740-90-1.

1-6. Reporting Equipment Improvement Recommendations (EIR)

If your SM-674/UPM and MX-9848/APR-39(V) 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 and Fort Monmouth, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. We'll send you a reply.

1-6.1. Hand Receipt

This manual has a companion document with a TM number followed by -HR (which stands for Hand Receipt). The TM 11-6940-211-12-HR consists of preprinted hand receipt (DA Form 2062) that list end item related equipment (i.e., COEI, BII, and AAL) you must account for. As an aid to property accountability, additional -HR manuals may be requisitioned from the US Army Adjutant General Publications Center, Baltimore, MD in accordance with procedures in Chapter 3, AR 310-2 and DA Pam 310-10-2.

Section II. DESCRIPTION AND DATA

1-7. Purpose and Use

Simulator, Radar Signal SM-674/UPM and Test Adapter, Radar Signal MX-9848/APR-39(V) are items of special test equipment used for organizational and direct/general support maintenance of Detecting Set, AN/APR-39(V)1.

a. *Simulator, Radar Signal SM-674/UPM.* This unit comprises Simulator, Radar Signal SM-736/UPM (simulator) and Case, Simulator, Radar Signal CY-7583/UPM (transit case).

(1) *Simulator Radar Signal SM-736/UPM (Simulator).* The simulator is a hand-held, battery