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TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, AND  
DIRECT SUPPORT MAINTENANCE MANUAL  
TEST SET, ELECTRONIC SYSTEMS  
AN/UKMm5 INSN 6625u01-073-9858)  
AND  
ADAPTER, TEST MX-10062/U  
(NSN 6625u01-074-7320)

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HEAD QUARTERS, DEPARTMENT OF THE ARMY

15 OCTOBER 1980

**OPERATOR'S, ORGANIZATIONAL, AND DIRECT SUPPORT  
 MAINTENANCE MANUAL  
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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, New Jersey 07703.  
 In either case, a reply will be furnished direct to you.

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## CHAPTER 1 INTRODUCTION

### Section I. GENERAL INFORMATION

#### 1-1. Scope

This manual contains detailed instructions for operator's, organizational and direct support maintenance of Test Set, Electronic Systems ANIUKM-5 (test set group) and Adapter, Test MX-10062/U (analog test adapter). The test set group includes Test Set, Electronic Systems AN/UKM-4 (data link tester) and Test Set, Electronic Systems AN/UYM-7 (digital tester). Information pertaining to the digital tester is contained in TM 11-6625-2951-13 and is repeated in this manual only to the extent necessary to define the relationship of the two test sets and to eliminate excessive cross-referencing.

#### 1-2. Indexes of Publications

a. *DA Pam 3104*. 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 3107*. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO) 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 Management System (Army). Air Force personnel will use AFM 66-1 for maintenance reporting and TO-00-35D54 for unsatisfactory equipment reporting

b. *Report of Item and Packaging Discrepancies*. Fill out and forward SF 364 (Report of Discrepancy(ROD)) as prescribed in AR 735-11-2/DLAR 4140.55/NAVSUPINST 4440.127EIAFR 400.54/MCO 430.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/NAVSUPNST 4610.33BIAFR 75-18IMCO P4610.19C and DLAR 4500.15.

#### 1-4. Reporting Equipment Improvement Recommendations (EIR)

If your equipment 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, New Jersey 07703. We'll send you a reply.

#### 1-5. Destruction of Army Materiel to Prevent Enemy Use

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

#### 1-6. 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 paragraph 2-1.

#### 1-7. Calibration

Refer to TM 11-6625-2951-13 for digital tester calibration procedures. Calibration procedures for the data link tester are contained in TB 11-6625-2937-35.

#### 1-8. Hand Receipt

Hand receipts for End Item/Components of End Item (COEI), Basic Issue Items (BB), and Additional Authorization List (AAL) item are published in a Hand Receipt Manual. The Hand Receipt Manual numerical designation is the same as the related Technical Manual with the letters HR added to the number. These manuals are published to aid in property accountability and are available through: Commander, US Army Adjutant General Publication Center, ATTN: AGDL-OD, 1655 Woodson Road, SL Louis, MO 63114.

### Section II. DESCRIPTION AND DATA

#### 1-9. Purpose and Use

a. *Test Set Group*. The test set group is used for direct support (DS) and depot maintenance of Encoder, Video KY-865/AKT-18B (encoder) and Decoder, Video KY-87 1 /PIQ2B (decoder). These units are components of Radar Surveillance System AN/UPD-7. The encoder is part of Transmitting Set, Radar Data AN/AKT-18B (data transmitting set) and the decoder is part of Receiving Set, Radar Data AN/TKQ-2B (data

receiving set). At the DS level, the test set group tests the encoder and decoder microprocessor, as well as standard logic and analog circuit cards, for a pass/fail condition. At the depot level, the test set group is used to isolate the cause of fire to failure or group of parts on the circuit card.

b. *Adapter, Test MX-100621U*. Analog circuit cards are checked using Adapter, Test MX-10062/U (analog test