DEPARTMENT OF THE TECHNICAL MANUAL TM 11-6625-667-45

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NAVAL AIR TECHNICAL SERVICES FACILITY TECH. MANUAL NAVAIR 16-30APM123-2

DEPARTMENT OF THE AIR FORCE TECHNICAL MANUAL TO 33A1-3-367-22

GENERAL SUPPORT AND DEPOT MAINTENANCE MANUAL

TEST SET, TRANSPONDER

AN/APM-123[V] 1

AN/APM-123[V] 2

AN/APM-123[V] 3

(NSN 6625-00-948-0071)

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

DEPARTMENTS OF THE ARMY, THE NAVY, AND THE AIR FORCE

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TECHNICAL ORDER
T031A1-3-367-22

DEPARTMENTS OF THE ARMY,
THE NAVY, AND THE AIRFORCE

WASHINGTON, DC, *26 June 1968*

GENERAL SUPPORT AND DEPOT MAINTENANCE MANUAL

TRANSPONDER TEST SET AN/APN-123(V)1

(NSN 6625-00-948-0071) AN/AP/123(V)2,

(NSN 6625-00-948-0077) AND AN/APM-123(V)3

(NSN 6625-00-948-0076)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of away to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Commander, US Army Communications Electronics Command, ATTN: DRSEL ME-MQ, Fort Monmouth, NJ 07703.

For Air Force, submit AFTO Form 22 (Technical Order System Publication Improvement Report and Reply) in accordance with paragraph 6-5, Section VI, TO 00-5-1. Forward direct to prime ALC/MST.

For Navy, mail comment to the Commander, Naval Electronics Systems Command ATTN: ELEX 45053 (0. H.) Washington, D.C. 20360. In any case, a reply will be furnished direct to you.

• This manual supersedes TM 11-6625-667-35, 12 0ctober 1966.

LIST OF ILLUSTRATIONS

LIST OF ILLUSTRATIONS—Continued

LIST OF ILLUSTRATIONS—Continued

CHAPTER I

GENERAL

1-1. Scope

a. This manual contains general support and depot maintenance instructions for Test Set, Transponder AN/APM-123V. It includes instructions for troubleshooting, testing, aligning, and repairing the equipment. It also lists tools, materials, and test equipment required for general support and depot maintenance, Functional analysis of the equipment is covered in chapter 2. A schematic diagram of the cable required to perform mode 4 checks with the auxiliary computer is shown in figure 8-46.

NOTE

For equipment modified by MWO 11-6625-667-40-1, a visual indicator light (A15XDS4) to provide a code zeroize alarm and protection diode (A15CR6) to prevent overloading of the power supply have been added. In addition, MWO 11-6625-667-40-2 changed the prf from 400 pps to 230 pps and eliminated the SPI pulse.

b. The complete manual for this equipment includes one other publication, TM 11-6625-667-12.

1-2. Indexes of Publication

a. DA Pam 310-4. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, additional publications, or modification work orders 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. Navy personnel will report maintenance performed utilizing the Maintenance Data Collection Subsystem (MDCS) IAW OPNAVINST 4790.2, Vol 3 and unsatisfactory material conditions (UR submissions) IAW OPNAVINST 4790.2, Vol 2, chapter 17.

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 4430.3E.

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 4610.19C/DLAR 45.0015.

1-4. Report Equipment Improvement Recommendation (EIR)

a. Army. 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 dont like about your equipment. Let us know why you dont 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, ATTN: DRSEL ME-MQ, Fort Monmouth, NJ 07703. We 11 send you a reply.

b. Air Force. Air Force personnel are encouraged to submit EIRs in accordance with AFM 900-4.

c. *Navy.* Navy personnel are encouraged to submit EIRs through their local Beneficial Suggestion Program.

1-5. (Army Only) Destruction of Army Materiel to Prevent Enemy Use

Demolition of the test set will be accomplished only upon the order of the Commander. Refer to TM 750-244-2 for procedures to prevent the enemy from using or salvaging this equipment.

1-6. (Army Only) Administrative Storage

Administrative storage of equipment issued to and used by Army activities shall be maintained in a maximum Readiness Condition (REDCON). Equipment placed in administrative storage should be capable of being readied to perform its mission within a 24 hour period or as otherwise prescribed by the approving authority. Before equipment is placed in administrative storage, current maintenance service should be performed; shortcomings and deficiencies should be corrected: and all modification work orders (MWOs) as listed in DA Pam 310-4 should be applied. Particular attention is directed to security and calibration of installed electronic equipments in or out of aircraft or surface equipment prior and during administrative storage. Special procedures include protection from dust and humidity and the cleanliness and inspection of the electronic equipments. Upon removal from storage, the electronic equipments must be prepared for operation and tested in accordance with the PMCS charts and procedures in pertinent technical manuals.