

**OPERATOR'S AND ORGANIZATIONAL
MAINTENANCE MANUAL**

MODEM, DIGITAL DATA MD-1002/G

This copy is a reprint which includes current
pages from Change 1.



**Operator's and Organizational Maintenance Manual
MODEM, DIGITAL DATA MD-1002/G (NSN 5820-01-043-7646)**

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.

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

For Navy, mail comments to the Commander, Naval Electronics Systems Command, ATTN: ELEX 4053 (O.H.), Washington, DC 20360.

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

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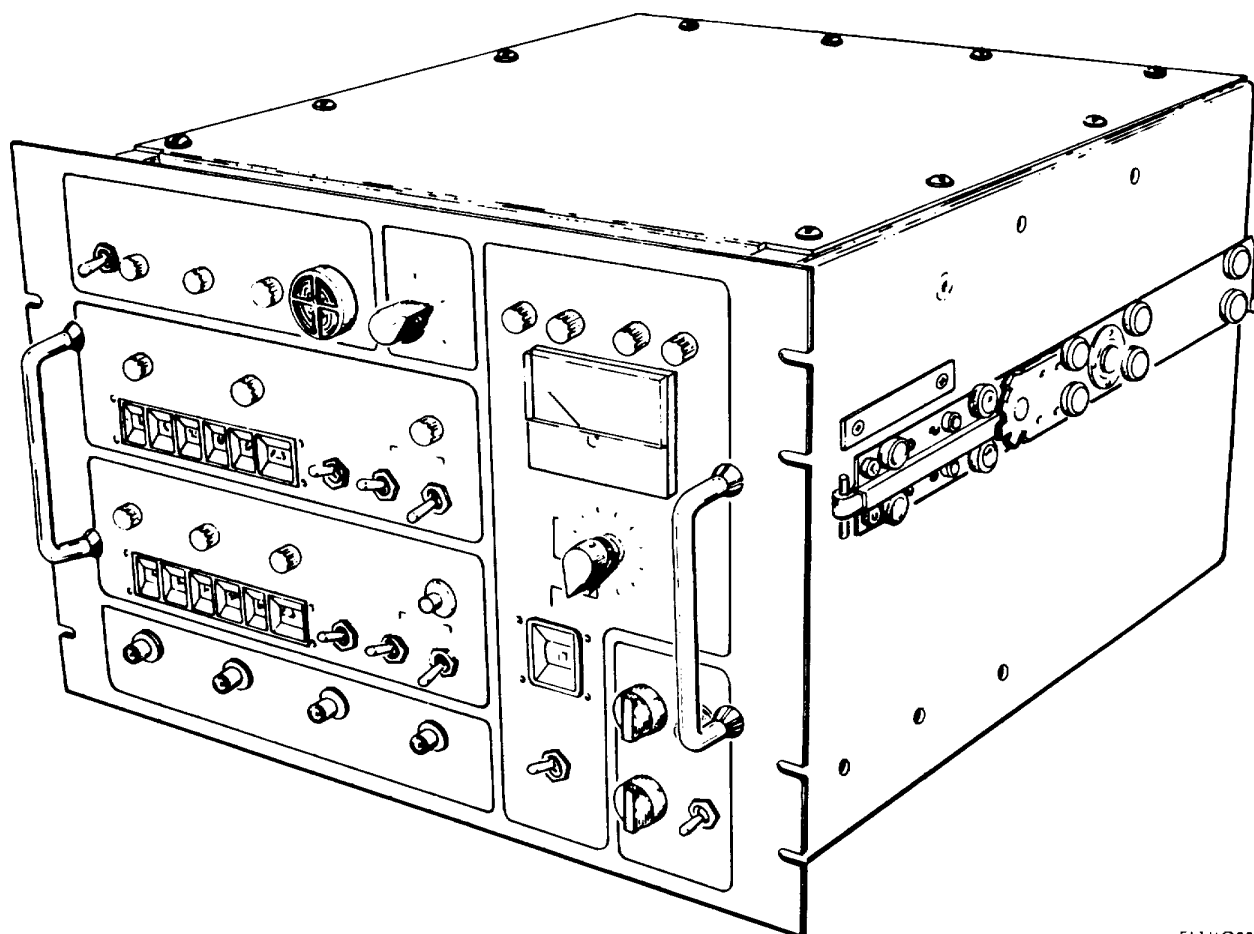
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Figure 1-1. Modem, Digital Data MD-1002/G.

CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope

This manual describes Modem, Digital Data MD-1002/G, hereafter called QPSK/BPSK modem (fig. 1-1). It includes installation, operation, maintenance, and troubleshooting for operator/ organizational maintenance. Appendix B contains a listing of components; appendix C contains the maintenance allocation chart. Organizational re- pair parts are listed in TM 11-5820-847-20P. A Hand Receipt Manual, TM 11-5820-847-12-HR may be used for property accountability. It contains a preprinted DA Form 2062 for use by property officers to transfer accountability of the MD-1002/G.

1-2. Indexes of Publications

a. *DA Pam 310-4.* 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.

1-3. 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 DD Form 6 (Packaging Improvement Report) as prescribed in AR 735-11-2/DLAR 4140.55/NAVSUPINST 4440.127E/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 P4610.19C and DLAR 4500.15.

1-4. 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.

1-5. Destruction of Army Electronics Materiel

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

1-6. Reporting Equipment Improvement Recommendations (EIR)

a. *Army.* If your QPSK/BPSK modem 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.

b. *Air Force.* Air Force personnel are encouraged to submit EIR's in accordance with AFM 900-4.

c. *Navy.* Navy personnel are encouraged to submit EIR's through their local Beneficial Suggestion Program.

1-7. Equipment Designators

Throughout this manual, assemblies and subassemblies are identified by reference designation; e.g., A2A1, A2A1A1, etc. These designators are the same as those marked on the equipment. The maintenance allocation chart in appendix C, and