

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR'S AND ORGANIZATIONAL
MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
TEST SET, CRYOGENIC REFRIGERATOR AN/AAM-40 AND
(NSN 4130-00-197-6347)
SERVICE KIT, REFRIGERANT MK-1171/AAS-24
(NSN 4940-00-403-1007)

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HEADQUARTERS
 DEPARTMENT OF THE ARMY
 WASHINGTON, DC, 31 August 1970

**Operator's and Organizational Maintenance Manual Including Repair
 Parts and Special Tools Lists**

**TEST SET, CRYOGENIC REFRIGERATOR AN/AAM-40
 (NSN 4130-00-197-6347)**

AND

**SERVICE KIT, REFRIGERANT MK-1171/AAS-24
 (NSN 4940-00-403-1007)**

Change No. 3 Current as of August 1977

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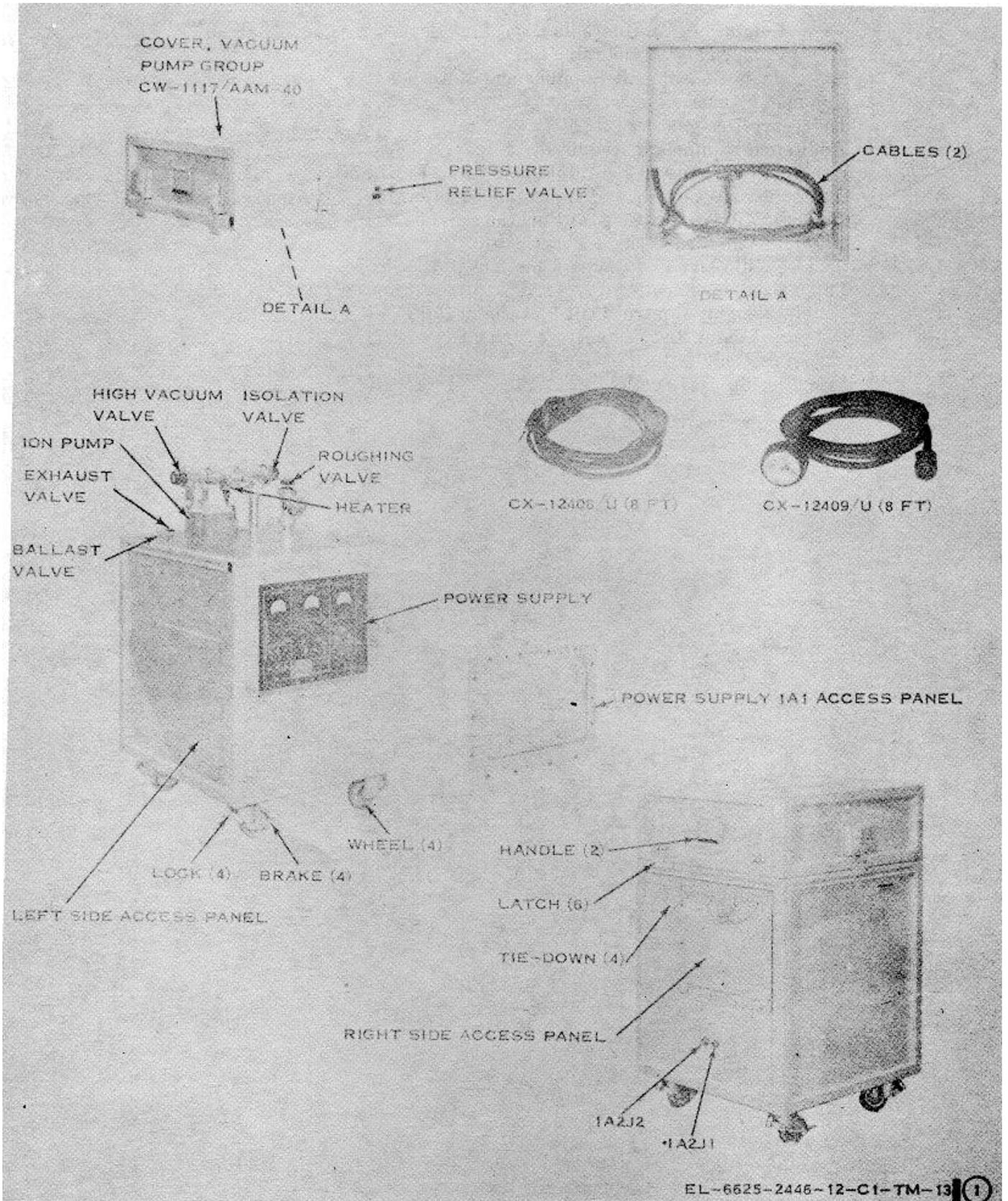


Figure 1-1 (1). Test Set, Cryogenic Refrigerator AN/AAM-40, components (1 of 5).

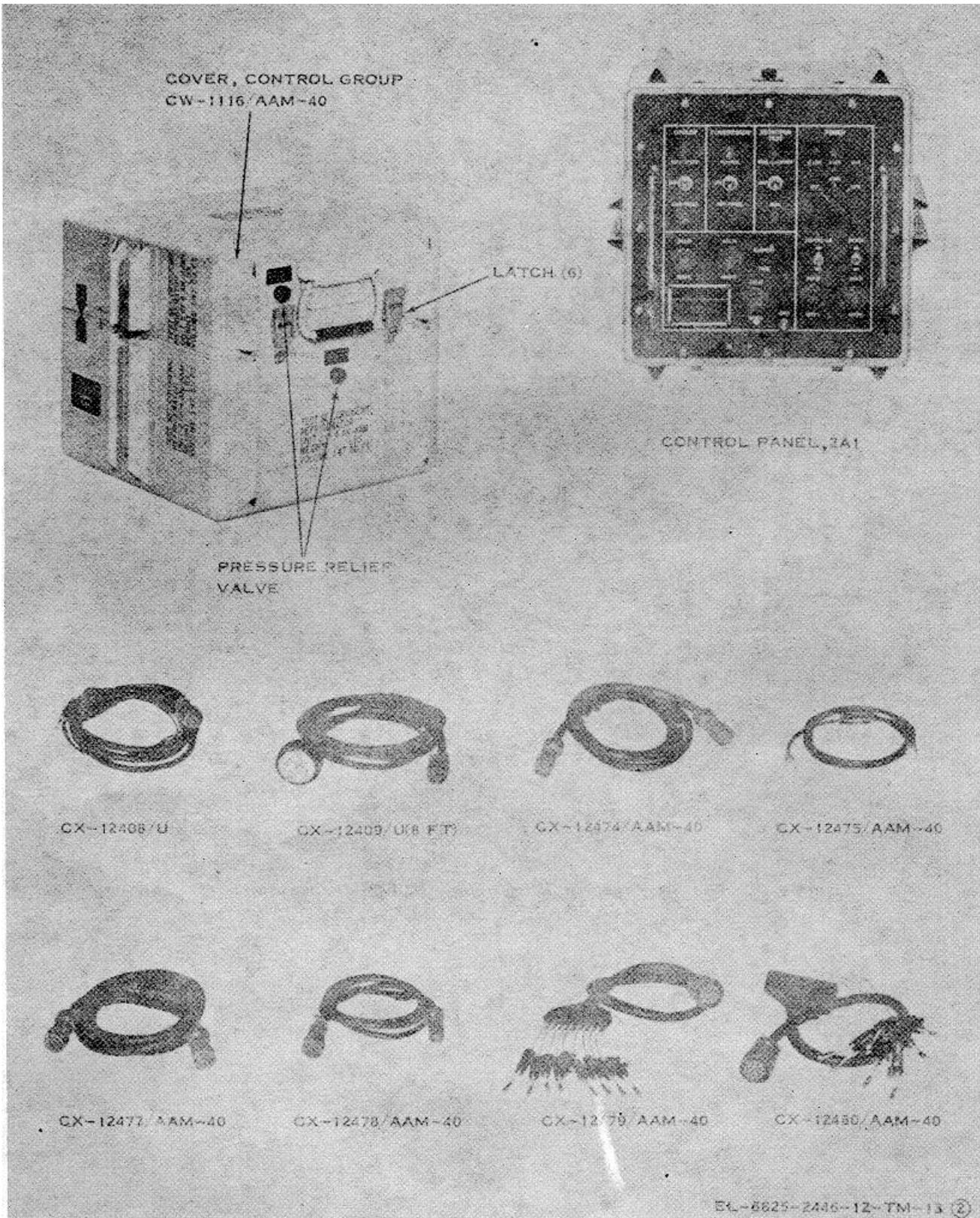


Figure 1-1 (2). Test Set, Cryogenic Refrigerator AN/AAM-40, components (2 of 5).

CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope of Manual

a. This manual describes Test Set, Cryogenic Refrigerator AN/AAM-40 (cryo test set) and Service Kit, Refrigerant, MK-1171/AAS-24 (service kit) and covers installation, operation, and organizational maintenance. It includes instructions for operation under unusual conditions, performing preventive and periodic maintenance services, and replacement of parts available to the organizational maintenance repairman. Instructions for using the cryo test set and service kit are contained in Technical Manual (TM) 11-5850-241-34 and TM 11-5850-241-12 respectively.

b. Major heads and paragraphs throughout this manual are applicable to the cryo test set. Information applicable to the service kit appears as required throughout the manual.

c. Appendix A contains references; appendix B contains the basic issue items list and items troop installed or authorized list; appendix C contains the maintenance allocation chart; and appendix D contains the repair parts and special tools list.

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. Forms and Records

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.

b. Report of Packaging and Handling Deficiencies.

Fill out and forward DD Form 6 (Packaging Improvement Report) as prescribed in AR 700-58/NAVSUPINST 4030.29/AFR 71-13/MCO P4030.29A, and DSAR 4145.8.

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 4610.33A/AFR 75-18/MCO P4610.19B, and DSAR 4500.15.

1-3.1. Reporting of Errors

You can help improve this manual by calling attention to errors and by recommending improvements and stating your reasons for the recommendations. Your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) should be mailed direct to Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

1-3.2. Reporting Equipment Improvement Recommendations (EIR)

EIR's will be prepared using DA Form 2407 (Maintenance Request). Instructions for preparing EIR's are provided in TM 38-750, The Army Maintenance Management System. EIRs should be mailed direct to Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

1-3.3. Administrative Storage

Administrative storage of equipment issued to and used by Army activities shall be in accordance with TM 740-90-1.

1-3.4. Destruction of Army Electronics Materiel

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