

TECHNICAL MANUAL

OPERATOR'S AND AVIATION INTERMEDIATE
MAINTENANCE (AVIM) MANUAL INCLUDING
REPAIR PARTS AND SPECIAL TOOLS LIST FOR
MACHINE/WELDING SHOP

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HEADQUARTERS, DEPARTMENT OF THE ARMY
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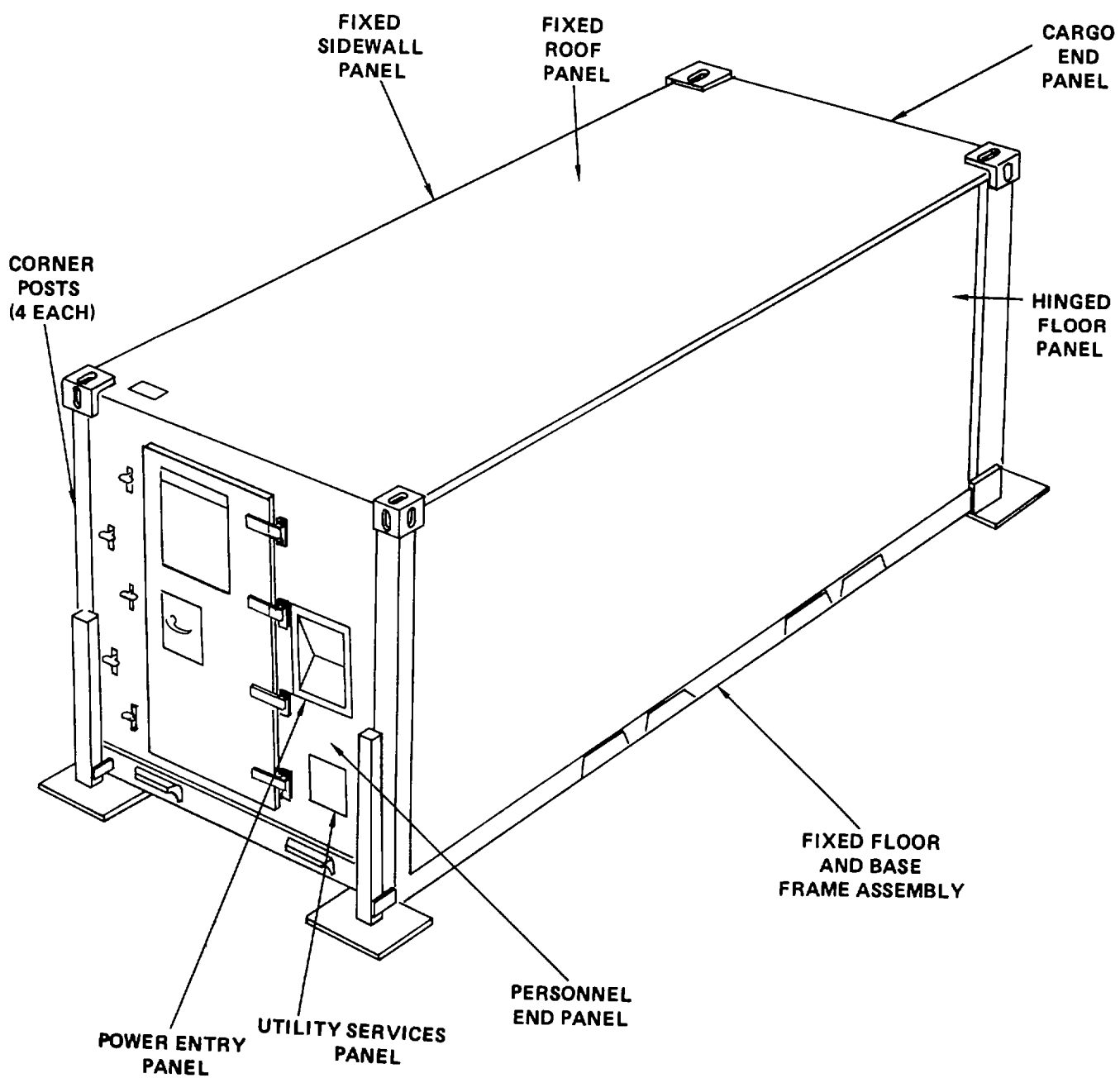
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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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 the back of this manual direct to: Commander, US Army Aviation Systems Command, ATTN: AMSAVMPD, 4300 Goodfellow Blvd. , St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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CHAPTER 1 INTRODUCTION

SECTION I. GENERAL INFORMATION

1-1. Scope.

Type of Manual: Operator and Intermediate Level

Equipment Name: Machine/Welding Shop, NSN 4920-01-139-4533.

Purpose of Equipment: To provide machine and welding shop repair/fabrication support for non-divisional aviation units. This shop is utilized in conjunction with other maintenance shops in the AVIM support unit.

1-2. Maintenance forms, records and reports.

Department of the Army forms and records used to maintain this equipment will be those prescribed by DA PAM 738-751, The Army Maintenance Management System - Aviation (TAMMS-A).

1-3. Reporting equipment Improvement recommendations (EIR).

If your Machine/Welding Shop 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. Put it on an SF 368 (Quality Deficiency Report). Mail it to: Commander, US Army Aviation Systems Command, ATTN: AMSAV-MMD, 4300 Goodfellow Blvd. , St. Louis, MO 63120-1798. We will send you a reply.

1-4. Destruction of Army materiel to prevent enemy use.

Instructions for destruction of this equipment are contained in TM 750-244-1-4, Procedures for Destruction of Aviation Ground Support Equipment (FSC 4920), to Prevent Enemy Use.

1-5. Preparation for storage or shipment.

For general technical information on preparation for storage and shipment refer to TM 55-1500-204-25/1 and TM 743-200-1. For regulatory requirements pertaining to equipment placed in administrative storage refer to AR 750-1.

SECTION II. EQUIPMENT DESCRIPTION AND DATA

1-6. Characteristics.

- a. This Machine/Welding Shop is housed in a tactical, one side expandable, shelter (NSN 5411-01-124-1377).
- b. Once the shelter has been erected the additional floor space provides the work area necessary for the Machine/Welding Shop to perform its maintenance function.
- c. The shop is equipped with tools, machines and equipment necessary to provide mission support of machine and welding repair and fabrication for the AVIM unit.
- d. The shelter can be transported by highway, rail, marine or air (C-130, C-141 or C-5 aircraft, Army CH-47 and CH-54 helicopter).
- e. As designed, the Machine/Welding Shop can be operated in any geographic area and under any climatic condition in support of Army non-divisional units.

1-7. Location and description of major components.

- a. Shelter closed for transport or storage.
- b. Equipment location in transport/storage mode.

- (1) ENGINE LATHE
- (2) ECU
- (3) AUTOMOTIVE TABLE
- (4) VISE
- (5) CABINET BIN STORAGE
- (6) WELDING TABLE
- (7) ELECTRIC ARC WELDER
- (8) WATER CIRCULATOR UNIT
- (9) MILLING MACHINE MTD ON CABINET BIN STORAGE W/DRAWERS
- (10) ANVIL
- (11) OXYACETYLENE WELDER CART
- (12) GRINDER
- (13) CABINET W/DRAWERS
- (14) HYDRAULIC PRESS
- (15) DRILL PRESS
- (16) TOOL BOX RACK

NOTE

ITEMS (7) AND (8) MAY NOT BE ISSUED WITH THIS SHOP SET; BUT IF REQUIRED, CAN BE OBTAINED BY SEPARATE REQUISITION.

