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TECHNICAL MANUAL

OPERATOR'S  
AVIATION UNIT  
AND INTERMEDIATE  
MAINTENANCE MANUAL  
(INCLUDING REPAIR PARTS AND  
SPECIAL TOOLS LIST)

FOR

STANDARD AIRCRAFT  
MAINTENANCE TRAILER  
P/N 4920-EG-081  
NSN 1730-01-086-1653

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 DEPARTMENT OF THE ARMY  
 WASHINGTON, D. C., 9 January 1984

OPERATOR'S AND ORGANIZATIONAL  
 MAINTENANCE MANUAL  
 INCLUDING  
 REPAIR PARTS AND SPECIAL TOOLS LIST  
 FOR STANDARD AIRCRAFT MAINTENANCE TRAILER

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, 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: AMSAV-MMD, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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01 - Rail Assembly	
02 - Pallet Assembly	
03 - Trailer Undercarriage	
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# CHAPTER 1 INTRODUCTION

## SECTION I. GENERAL INFORMATION

1-1. Scope.

Type of Manual: Operator's Aviation Unit Maintenance, and Intermediate Maintenance including Repair Parts and Special Tools List.

Model Number and Equipment Name: Part Number 4920-EG-081 Trailer, Standard Aircraft Maintenance.

Purpose of Equipment: Transports materiel during aircraft maintenance.

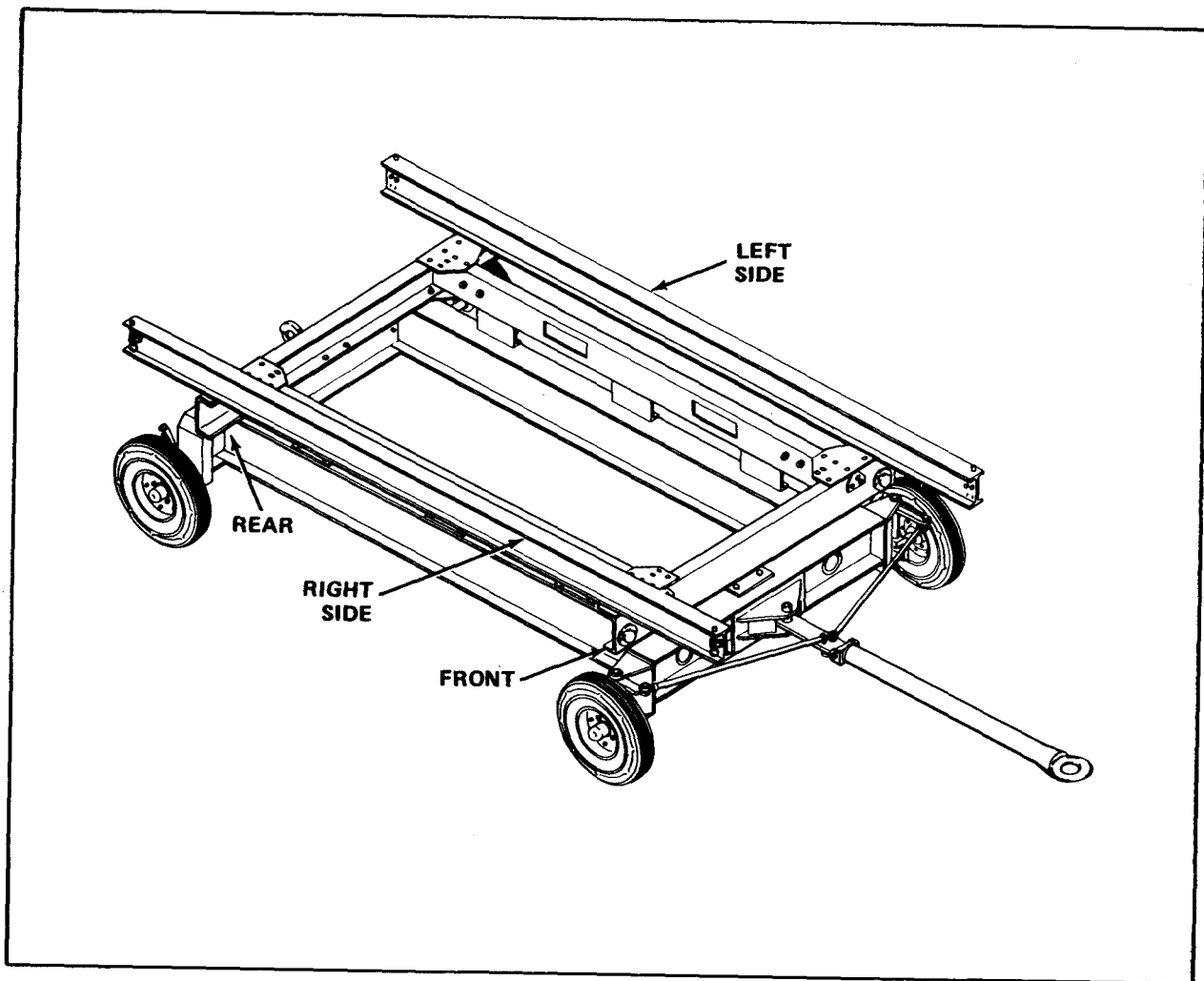


Figure 1-1. Trailer, Standard Aircraft Maintenance

1-2. Maintenance forms, records, and reports.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-751, Functional Users Manual for the Army Maintenance Management System-Aviation (TAMMS-A).

1-3. Destruction of Army materiel to prevent enemy use.

Refer to TM 750-244-1-3, Procedure for Destruction of Aviation Support Equipment (FSC 1700) for instructions on destroying this equipment.

1-4. Preparation for storage and shipment. Refer to TM 740-90-1, Administrative Storage of Equipment and TM 743-200-1, Storage and Materiel Handling. In preparation for shipment, the towbar is to be removed (see paragraph 3-38, towbar removal) and secure to the trailer pallet.

1-5. Quality assurance quality control (QAQC). For quality assurance quality control requirements, refer to FM 55-411.

1-6. Reporting equipment improvement recommendations (EIR's). If your maintenance trailer 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 us at: Commander, US Army Aviation Systems Command, ATTN: AMSAV - MMD, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. We'll send you a reply.

## SECTION II. EQUIPMENT DESCRIPTION AND DATA

1-7. Equipment characteristics, capabilities and features,

### CHARACTERISTICS

- Transports

### CAPABILITIES AND FEATURES

- All weather operational
- Can be loaded and unloaded by sliding load to or from another trailer
- Can be loaded and unloaded by lifting with a fork lift
- Can be towed together with other trailers



1-8. Location and description of major components.

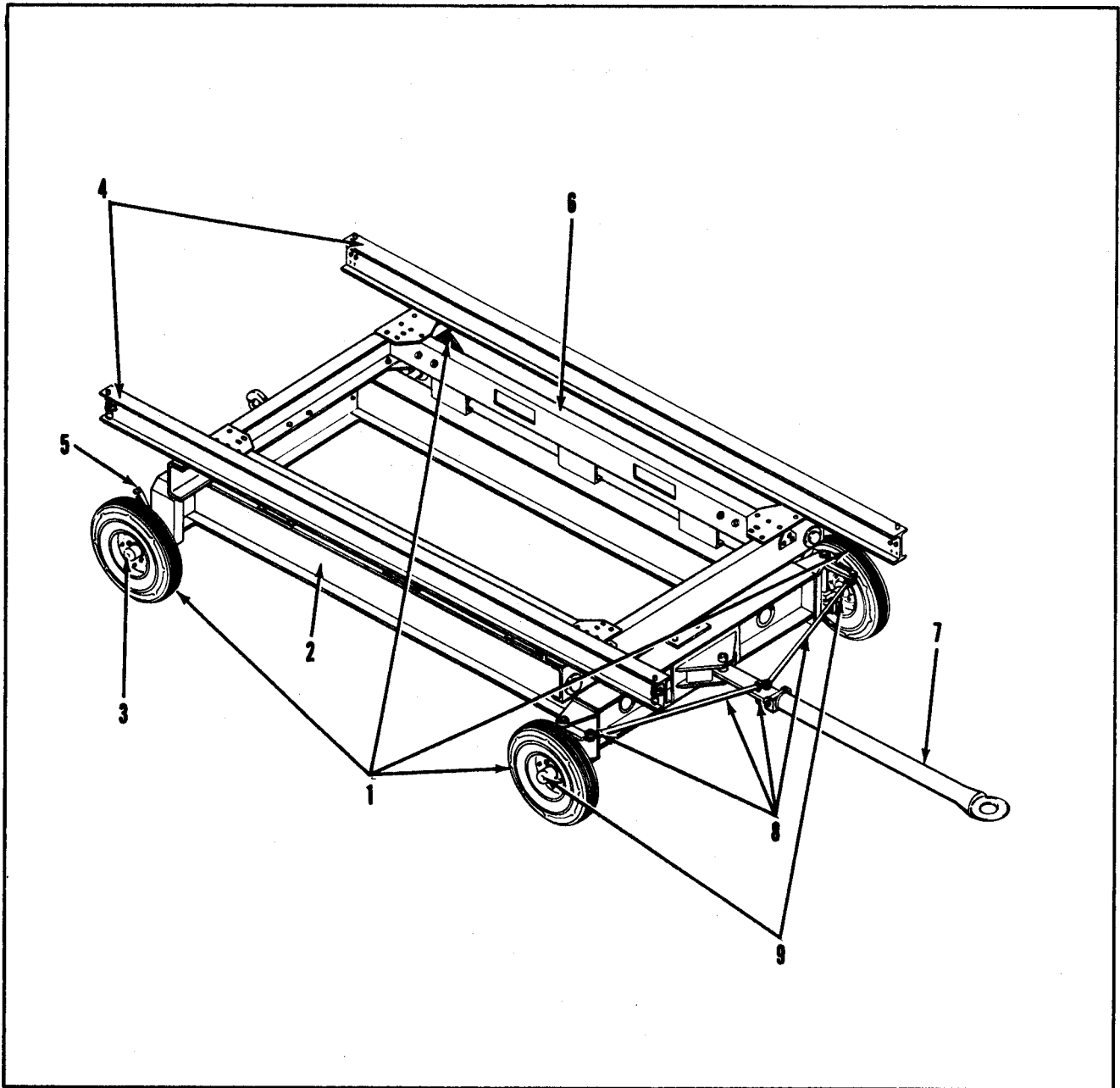


Figure 1-2. Location and Description of Major Components

1-8. Location and description of major components (cont).

TIRE AND RIM ASSEMBLY (1). Consists of a 6.00-9, 6-ply pneumatic tire, a 6.00-9 inner tube, and a 4.00-9 two-piece remountable type rim.

BASE ASSEMBLY (2). Consists of a welded I-beam frame assembly and provisions for mounting the front and rear mounting plate, towing bracket assembly, king pin support assemblies, and the rear corner assemblies.

REAR CORNER ASSEMBLY (3). Consists of an axle shaft, brake flanges, and rear axle support assembly.

RAIL ASSEMBLY (4). The rail assembly is comprised of an I-beam which is attached to the pallet assembly (6) in one of two different configurations to compensate for different load dimensions. The rail assembly is equipped with two rail stop assemblies.

PARKING BRAKE ASSEMBLY (5). Consists of a brake drum, pedal assembly, hub assembly, and studs.

PALLET ASSEMBLY (6). A welded-channel structure, equipped with corner plates to secure rail assemblies (4), slots to allow forklift removal from the trailer undercarriage, and tiedown mounting provisions.

TOWBAR ASSEMBLY (7). A tubular assembly with an eye fixed to one end, and a tongue pivot assembly fixed to the opposite end.

STEERING ASSEMBLY (8). Consists of two tie rod assemblies connected to the king pin pivot assemblies at one end, and the towbar tongue assembly at the opposite end.

FRONT AXLE ASSEMBLY (9). An axle shaft connected to the king pin pivot assembly by a mounting block.