

## TECHNICAL MANUAL OPERATOR'S MANUAL

### HEMTT TANKER AVIATION REFUELING SYSTEM (HTARS)

NSN 4930-01-269-2273

MODEL NUMBER  
50-0051

INTRODUCTION

OPERATING INSTRUCTIONS

OPERATOR MAINTENANCE  
INSTRUCTIONS

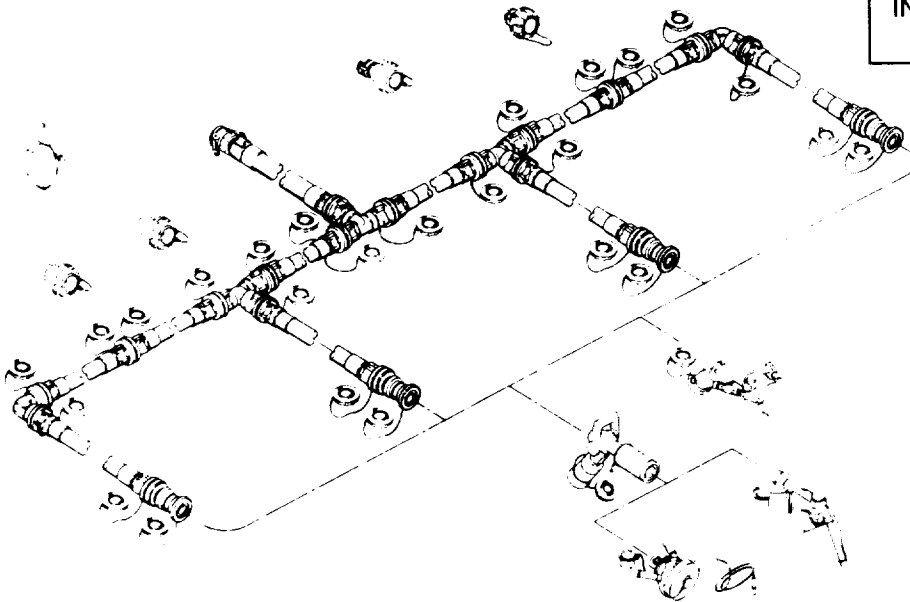
REFERENCES

COMPONENTS OF END  
ITEM/BASIC ISSUE ITEMS

ADDITIONAL  
AUTHORIZATION LIST

EXPENDABLE/DURABLE  
SUPPLIES AND MATERIALS LIST

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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DEPARTMENT OF THE ARMY  
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Operator's Manual

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NSN 4930-01-269-2273 MODEL NUMBER 50-0051

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can 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, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-AC-NML, Rock Island, IL 61299-7630. A reply will be furnished to you. You may also provide DA Form 2028-2 information to TACOM via datafax or e-mail: TACOM's fax number is DSN 786-6323. TACOM's e-mail address is [tacom-tech-pubs@cc.tacom.army.mil](mailto:tacom-tech-pubs@cc.tacom.army.mil)

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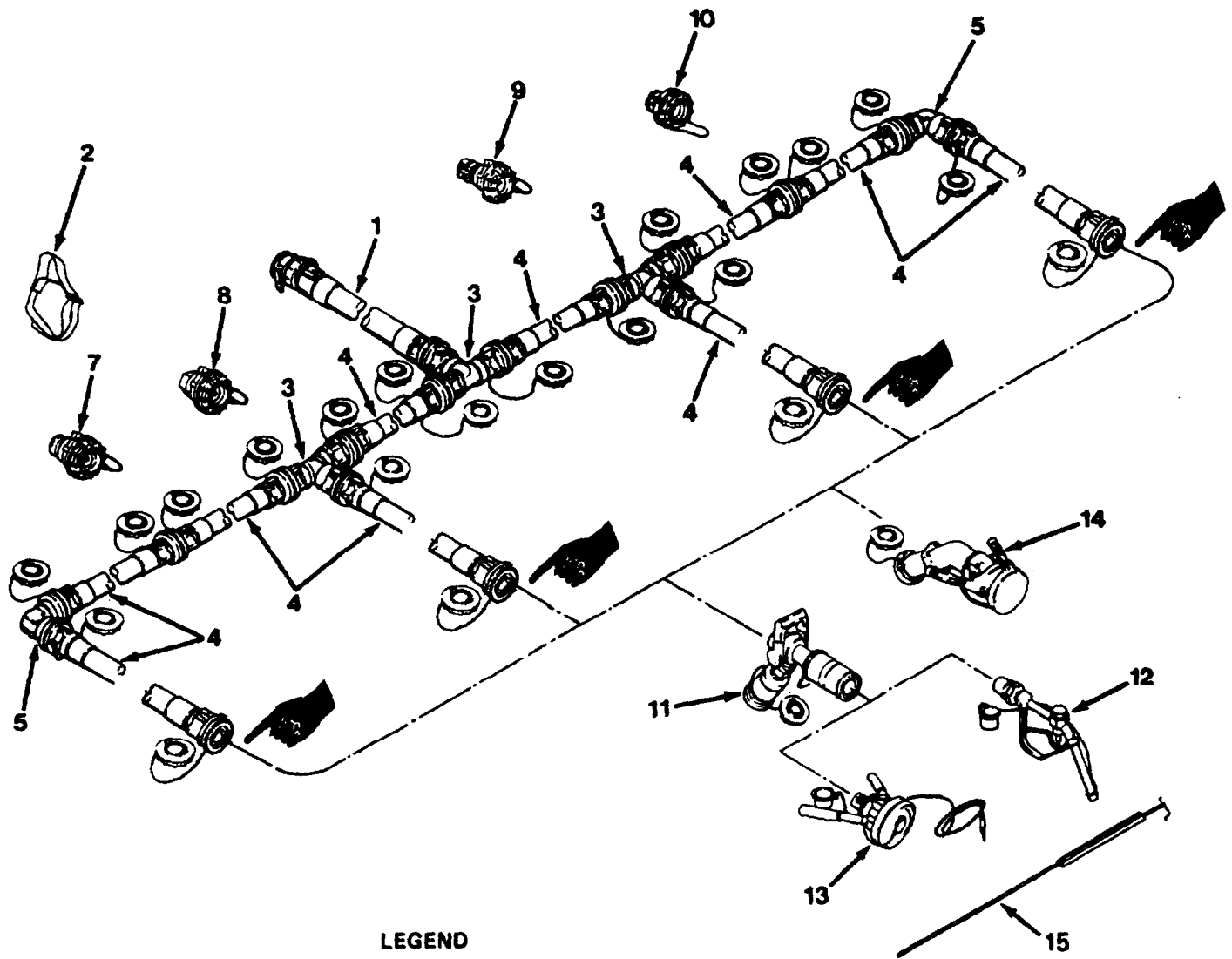
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Section 1. GENERAL INFORMATION

**1-1. Scope.** This is an Operator's Manual and supports the Heavy Expanded Mobility Tactical Truck (HEMTT) Tanker Aviation Refueling System, model number 50-0051. The system is used to dispense aviation fuel to from one to four aircraft. Throughout this manual the HEMTT Tanker Aviation Refueling System (HTARS) shall be referred to as the equipment. (See Figure 1-1).



LEGEND

- |                          |                          |
|--------------------------|--------------------------|
| 1. 3 INCH DISCHARGE HOSE | 9. ADAPTER - VALVED      |
| 2. CARRYING STRAP        | 10. SWIVEL ADAPTER       |
| 3. TEE CONNECTOR         | 11. CCR NOZZLE           |
| 4. 2 INCH DISCHARGE HOSE | 12. OVERWING NOZZLE      |
| 5. ELBOW CONNECTOR       | 13. RECIRCULATION NOZZLE |
| 6. DELETED               | 14. D1 NOZZLE            |
| 7. ADAPTER - VALVED      | 15. GROUNDING ROD        |
| 8. ADAPTER - VALVED      |                          |

Figure 1-1. HEMTT Tanker Aviation Refueling System (HTARS)

**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 738-750, The Army Maintenance Management System (TAMMS).

**1-3. Reporting Equipment Improvement Recommendations (EIR's).** If your equipment needs improvement, let us know. Send 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 or performance. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at: Commander, U.S. Army TACOM, ATTN: AMSTA-TR-E/MPA, Warren, MI 48395-5000. A reply will be furnished to you.

**1-4. Warranty Information.** Refer to TB5-4930-237-23, Technical Warranty Bulletin, for all warranty information.

**1-5. Destruction of Army Material to Prevent Enemy Use.** The equipment shall be destroyed in accordance with TM 750-244-3, Procedures for Destruction of Equipment to Prevent Enemy Use.

**1-6. Preparation for Storage or Shipment-** Refer to Chapter 2, Section III, Operation Under Usual Conditions,

**1-7. Quality Assurance/Quality Control (QA/QC).** Refer to FM 55-0411, Aviation Maintenance Quality Assurance/Quality Control, for appropriate QA/QC information.

**1-8. Safety, Care, and Handling.**

### **WARNING**

Aviation fuel is highly flammable. No smoking or open flames are permitted during fueling operations or near refueling areas. Failure to comply can result in injury or death to personnel.

Ground clips and plugs must be connected before attaching nozzles to aircraft. Failure to comply can result in injury or death to personnel from static discharge.

- a. Do not use any nozzle, part, or hose that is damaged and/or leaking fuel.
- b. Keep equipment clean. Remove dirt, fuel, moisture, snow, or mud with a clean cloth (item 1, Appendix D).
- c. Keep flow handles in closed (off) position when not in use.
- d. Keep dust caps in place when not in use. Dust, dirt, moisture, or contaminants can cause damage to internal parts.
- e. Hand-carry all equipment. Do not drag or throw on ground.

## **Section II. EQUIPMENT DESCRIPTION AND DATA**

**1-9. Equipment Characteristics, Capabilities, and Features.**

- a. Equipment is light-weight and can be carried to and from the aircraft.
- b. All controls are manually operated.
- c. Nozzles will not dispense fuel unless connected to aircraft receptacle (except overwing nozzle).
- d. One nozzle or combination of nozzles will connect to aircraft receptacle without an adapter.