TM 9-2330-267-14&P

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS)

FOR

TRAILER, TANK, WATER: 400 GALLON, 1-1/2 TON, 2 WHEEL M149 (NSN 2330-00-542-2039) M149A1 (NSN 2330-00-832-8801) M149A2 (NSN 2330-01-108-7367)

Operating Instructions 2-1

Operator/Crew PMCS 2-4

Lubrication Instructions 3-1

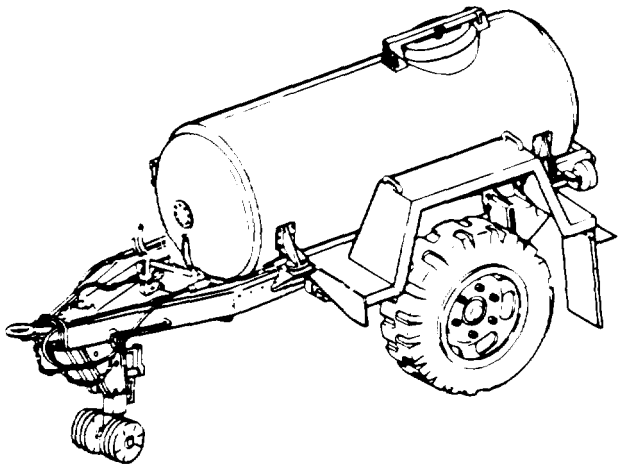
Operator/Crew Troubleshooting Procedures 3-7

Organizational PMCS 4-3

Organizational Troubleshooting Procedures 4-8

Maintenance Allocation Chart (MAC) B-1

Repair Parts and Special Tools Lists (RPSTL) F-1



M149A2

This manual supersedes TM9-2330-267-14&P, dated February 1981, and all changes.

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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TECHNICAL MANUAL

TM 9-2330-267-14&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington D.C., 30 July 1991

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS) FOR TRAILER, TANK, WATER: 400 GALLON, 1-1/2 TON, 2 WHEEL M149 (NSN 2330-00-542-2039) M149A1 (NSN 2330-00-832-8801) M149A2 (NSN 2330-01-108-7367)

Current as of 5 March 1991

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, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, Ml 48397-5000. A reply will be furnished to you.

TABLE OF CONTENTS

Page

CHAPTER 1 INTRODUCTION

Section I. General Information 1-1
Section II. Equipment Description and Data. 1-2

CHAPTER 2 **OPERATING INSTRUCTIONS**

Section I. Description and Use of Operator's Controls and Indicators 2-1
Section II. Operator/Crew Preventive Maintenance Checks and Services (PMCS) 2-4
Section Ill. Operation Under Usual Conditions 2-12
Section IV. Operation Under Unusual Conditions 2-18

CHAPTER 3 OPERATOR MAINTENANCE

Section I. Lubrication instructions 3-1
Section II. Operator/Crew Troubleshooting Procedures 3-7
Section Ill. Operator Maintenance 3-11

* This manual supersedes TM9-2330-267-14&P, dated February 1981, and all changes.

TABLE OF CONTENTS (Con't)

Page

CHAPTER 4 ORGANIZATIONAL MAINTENANCE

Section I. Repair Parts; Special Tools; Test, Measurement, and Diagnostic Equipment (TMDE); and Support Equipment 4-1
Section II. Service Upon Receipt 4-2
Section III. Organizational Preventive Maintenance Checks and Services (PMCS) 4-3
Section IV. Organizational Troubleshooting Procedures 4-8
Section V. General Maintenance Instructions 4-23
Section VI. Electrical System Maintenance 4-26
Section VII. Axle Maintenance 4-45
Section VIII. Brake System Maintenance. 4-48
Section IX. Wheel Maintenance 4-80
Section X. Frame and Towing Attachments Maintenance 4-85
Section Xl. Springs and Shock Absorber Maintenance 4-95
Section XII. Body Maintenance 4-102
Section XIII. Accessory Items Maintenance 4-118
Section XIV. Preparation for Storage or Shipment 4-122

CHAPTER 5 DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE

Section I. Wheel Maintenance 5-1
Section II. Body Maintenance 5-13

APPENDIX A REFERENCES. A-1
APPENDIX B MAINTENANCE ALLOCATION CHART B-1
APPENDIX C COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS C-1
APPENDIX D ADDITIONAL AUTHORIZATION LIST D-1
APPENDIX E EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST E-1
APPENDIX F REPAIR PARTS AND SPECIAL TOOLS LISTS F-1
Section I. Introduction F-1
Section II. Repair Parts List 1-1

Illus Fig — Page

GROUP 06 ELECTRICAL SYSTEM

0609 - LIGHTS 1-1
BLACKOUT LIGHTS (M149). 1 1-1
STOPLIGHT-TAILLIGHT (M149) 2 2-1
COMPOSITE STOPLIGHT-TAILLIGHT (M149A1 AND M149A2) . . . 3 3-1

TABLE OF CONTENTS (Con't)

	Illus Fig	Page
0613 - CHASSIS WIRING HARNESS		4-1
CHASSIS WIRING HARNESS (M149)	4	4-1
CHASSIS WIRING HARNESS (M149A1 AND M149A2)	5	5-1
INTERVEHICULAR CABLE (M149A1 AND M149A2)	6	6-1
GROUP 11 REAR AXLE		
1100 - REAR AXLE		7-1
REAR AXLE	7	7-1
GROUP 12 BRAKES		
1201 - HANDBRAKES		8-1
HANDBRAKES, CONTROLS AND LINKAGE	8	8-1
1202 - SERVICE BRAKES		9-1
SERVICE BRAKES	9	9-1
1204 - HYDRAULIC BRAKE SYSTEM		10-1
HYDRAULIC LINES AND FITTINGS (M149)	10	10-1
HYDRAULIC LINES AND FITTINGS (M149A1 AND M149A2)	11	11-1
BRAKE CHAMBER AND MASTER CYLINDER ASSEMBLY	12	12-1
1208 - AIRBRAKE SYSTEM		13-1
AIRBRAKE SYSTEM (M149)	13	13-1
GLADHAND/AIR HOSE ASSEMBLY COMPONENTS (M149)	14	14-1
AIRBRAKE SYSTEM (M149A1 AND M149A2)	15	15-1
AIRLINE FILTER ASSEMBLY	16	16-1
GROUP 13 WHEELS		
1311 - WHEEL ASSEMBLY		17-1
WHEEL ASSEMBLY AND HUB COMPONENTS	17	17-1
1313 - TIRES AND TUBES		18-1
TIRE AND TUBE	18	18-1
GROUP 15 FRAME, TOWING ATTACHMENTS, DRAWBARS, AND ARTICULATION SYSTEMS		
1501 - FRAME ASSEMBLY		19-1
FRAME ASSEMBLY (M149)	19	19-1
FRAME ASSEMBLY (M149A1 AND M149A2)	20	20-1
FAUCET BOX ASSEMBLY	21	21-1
1507 - LANDING GEAR, LEVELING JACKS		22-1
CASTER ASSEMBLY, FOLDING ADJUSTABLE	22	22-1
GROUP 16 SPRINGS AND SHOCK ABSORBERS		
1601 - SPRINGS		23-1
SPRINGS	23	23-1
1604 - SHOCK ABSORBER EQUIPMENT		24-1
SHOCK ABSORBERS	24	24-1
1605 - TORQUE, RADIUS, AND STABILIZER RODS		25-1
RADIUS RODS	25	25-1
GROUP 18 BODY, CAB, AND HOOD		
1811 - TANK BODIES		26-1
TANK BODY (M149 AND M149A1)	26	26-1

TABLE OF CONTENTS (Con't)

	Illus Fig	Page
1811 - TANK BODIES (Con't)		
TANK BODY (M149A2)	27	27-1
TANK PLUMBING,	28	28-1
TANK PLUMBING (M149A2)	29	29-1
GROUP 22 BODY AND CHASSIS ACCESSORY ITEMS		
2202 -ACCESSORY ITEMS		30-1
REFLECTORS	30	30-1
2210-DATA PLATES AND INSTRUCTION HOLDERS		31-1
DATA PLATES,	31	31-1
GROUP 94 REPAIR KITS		
9401 -R EPAIR KITS.		KITS-1
REPAIR KITS.	KITS	KITS-1
GROUP 95 GENERAL USE STANDARDIZED PARTS		
9501 - BULK MATERIEL		BULK-1
BULK MATERIEL	BULK	BULK-1
Section Ill. Special Tools List (Not Applicable)		
Section IV. Cross-reference Indexes		
NATIONAL STOCK NUMBER INDEX		I-1
PART NUMBER INDEX.		I-6
FIGURE AND ITEM NUMBER INDEX		I-18
APPENDIX G. ILLUSTRATED LIST OF MANUFACTURED ITEMS		G-1
APPENDIX H. TORQUE LIMITS		H-1
INDEX		Index 1

CHAPTER 1
INTRODUCTION

Section I. GENERAL INFORMATION

Paragraph Title	Page Number
Destruction of Army Materiel to Prevent Enemy Use	1-1
Maintenance Forms, Records, and Reports	1-1
Preparation for Storage or Shipment	1-1
Reporting Equipment Improvement Recommendations (EARs)	1-1
Scope	1-1

1-1. SCOPE.

a. This manual describes the operation and organizational, direct support, and general support maintenance, including repair parts and special tools lists for:

- Trailer, Tank, Water: 1½ Ton, 2 Wheel, 400 Gallon, M149, with fiberglass tank body.
- Trailer, Tank, Water: 1½ Ton, 2 Wheel, 400 Gallon, M149Al, with fiberglass tank body.
- Trailer, Tank, Water: 1½ Ton, 2 Wheel, 400 Gallon, M149A2, with stainless steel tank body.

b. Throughout the manual, the terms "tight" and "left" are used to describe views of the trailers, as viewed from the rear.

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. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.

For destruction of Army materiel to prevent enemy use, refer to TM 750-244-6.

1-4. PREPARATION FOR STORAGE OR SHIPMENT.

For information on preparing the trailers for storage or shipment, refer to Chapter 4, Section XIII.

1-5. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRs).

If your water tank 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. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at: Commander, U.S. Tank-Automotive Command, ATTN: AMSTA-MP, Warren, MI 48397-5000. We will send you a reply.

Section II. EQUIPMENT DESCRIPTION AND DATA

Paragraph Title	Page Number
Differences Between Models	1-6
Equipment Characteristics, Capabilities, and Features	1-2
Equipment Data	1-7
Location and Contents of Data Plates	1-4
Location and Description of Major Components	1-3

1-6. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

a. The M149, M149A1, and M149A2 Water Tank Trailers are designed to carry 400 gal. (15141) of potable or nonpotable water either highway or cross-country.

b. The trailers are designed to be towed by an M35 Series 2½ Ton Truck. Maximum allowable speed is 50 mi/h (80 km/h) highway and 30 mi/h (48 km/h) cross-country.

c. The trailers are equipped with:

(1) A 24-volt electrical system capable of operating under standard and blackout modes.

(2) An adjustable caster assembly to support the front of the trailer when not coupled to the towing vehicle.

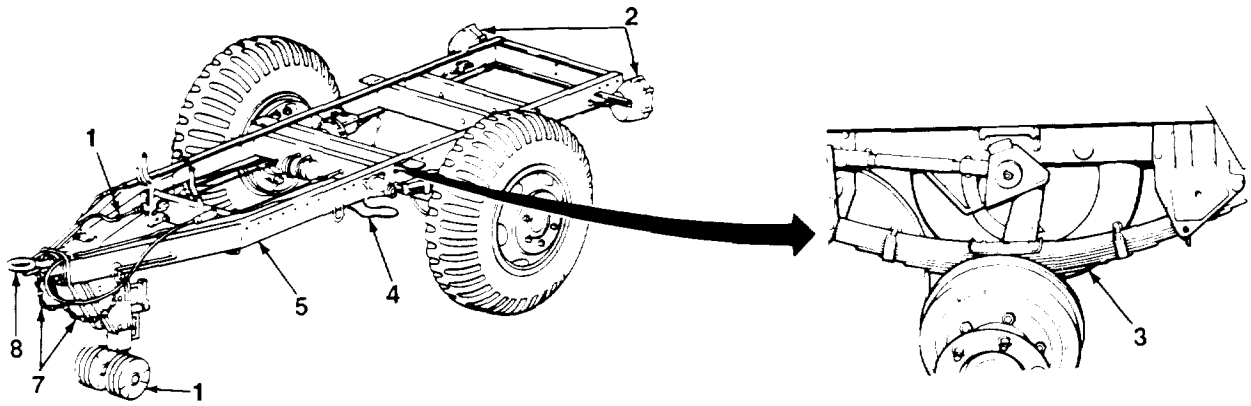
(3) Manually operated parking brakes used to secure the trailer when stopped or parked.

(4) Two wheel single axle with leaf spring suspension to absorb road shock.

(5) Dual-line air/hydraulic brake system which receives air pressure from towing vehicle.

1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.

a. M149, M149A1, and M149A2 Trailer Chassis.



Key	Component	Description
1	Intervehicular Cable	Connects trailer electrical system to the towing vehicle.
2	Light Assemblies	Consist of blackout, stop and tail, and composite. (Blackout light is separate stoplight assembly on the M149.) Indicate presence of trailer to vehicles traveling behind.
3	Suspension	Consists of two nine-piece leaf springs and two shock absorbers mounted on one axle. Restrains sudden and rapid vertical movement.
4	Handbrake Levers	Activate the handbrakes when the trailer is stopped or parked.
5	Frame Assembly	Composed of two pressed-steel siderails and six pressed-steel crossmembers. Supports the trailer load.
6	Adjustable Caster Assembly	Supports front of trailer when not coupled to towing vehicle.
7	Safety Chains	Prevent trailer from breaking away from towing vehicle.
8	Drawbar Ring	Attaches trailer to towing vehicle.

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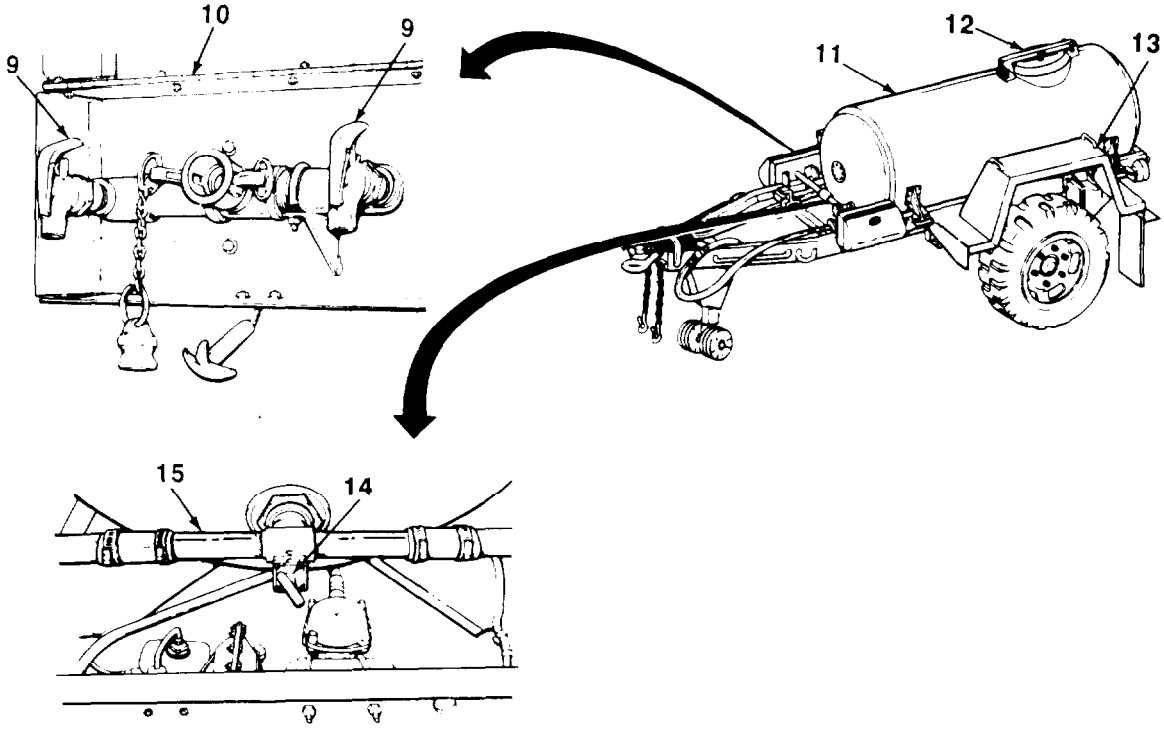
1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS (Con't).

b. M149, M149A1, and M149A2 Water Tank Body and Accessories.



Key	Component	Description
9	Faucets	Allow for the dispensing of water from the tank.
10	Faucet Box Assemblies	Protect faucets from weather or incidental damage.
11	Tank	Holds 400 gal. (1,514 l) of potable water or nonpotable water, if so marked, for transport.
12	Manhole	Provides access to interior of tank for filling, inspection, and cleaning.
13	Fender	Protects tires, tank, and vehicles traveling behind from thrown dirt or stones.
14	Manifold Valve	Directs flow of water to faucets.
15	Piping	Provides passageway for water from tank to the faucets.

1-8. LOCATION AND CONTENTS OF DATA PLATES.

a. The following illustrations show the location and contents of all data plates.

b. Maintain all data plates so that all information remains legible. If any data plate is missing or no longer legible, notify organizational maintenance.

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