

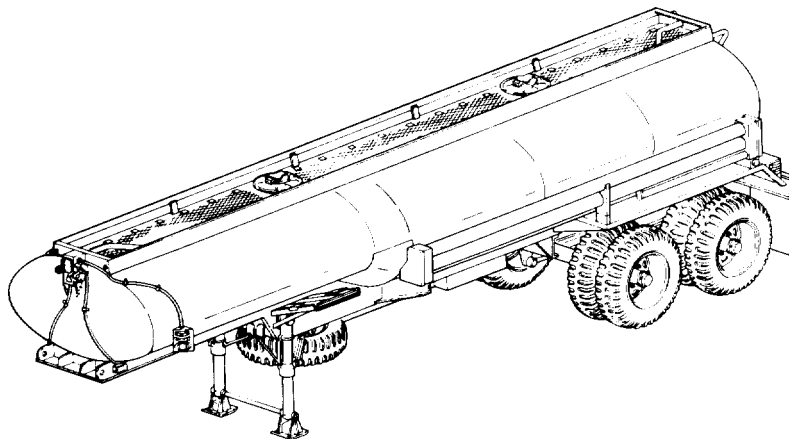
TM 9-2330-272-14

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT,
AND GENERAL SUPPORT MAINTENANCE MANUAL
FOR

SEMITRAILER, TANK: FUEL, 5000 GALLON, 4-WHEEL
M131A4 (NSN 2330-00-994-9459)
M131A5 (NSN 2330-00-226-6079)

SEMITRAILER, TANK: FUEL SERVICING,
5000 GALLON, 4-WHEEL
M131A4C (NSN 2330-00-994-9458)
M131A5C (NSN 2330-00-226-6080)



Operating
Instructions

2-1

Operator/Crew
PMCS

2-12

Lubrication
Instructions

3-1

Operator/Crew
Troubleshooting
Procedures

3-10

Organizational
PMCS

4-

Organizational
Troubleshooting
Procedures

4-9

Maintenance
Allocation Chart
(MAC)

B-1

This manual and TM 9-2330-272-24 supersede TM 9-2330-272-14&P dated 21 July 1983, and all changes.

Approved for public release; distribution is unlimited

HEADQUARTERS, DEPARTMENT OF THE ARMY JUNE 1992

TECHNICAL MANUAL

TM 9-2330-272-14

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington D. C., 30 June 1992

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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, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 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
Section III. General Safety Regulations	1-26
CHAPTER 2 <u>OPERATING INSTRUCTIONS</u>	
Section I. Description and Use of Operator's Controls and Indicators	2-1
Section II. <u>Operator/Crew Preventive Maintenance Checks and Services (PMCS)</u>	2-12
Section III. Operation Under Usual Conditions.. . . .	2-19
Section IV. Operation Under Unusual Conditions.	2-83

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TABLE OF CONTENTS (Con't)

	Page
CHAPTER 3 OPERATOR MAINTENANCE	
Section I. <u>Lubrication Instructions</u>	3-1
Section II. <u>Operator/Crew Troubleshooting Procedures</u>	3-10
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. <u>Organizational Preventive Maintenance Checks and Services (PMCS)</u>	4-3
Section IV. <u>Organizational Troubleshooting Procedures</u>	4-9
Section V. General Maintenance Instructions	4-20
Section VI. Electrical System Maintenance	4-23
Section VII. Brake System Maintenance	4-47
Section VIII. Wheels, Hubs. and Brakedrums Maintenance	4-79
Section IX. Frame and Towing Attachments Maintenance	4-88
Section X. Springs Maintenance	4-104
Section XI. Body Maintenance	4-112
Section XII. Body and Chassis Accessory items Maintenance	4-141
Section XIII. Auxiliary Engine Maintenance	4-147
Section XIV. Filter-separator Maintenance	4-175
Section XV. Pumps, Meters, Valves, Lines, and Fittings Maintenance	4-189
Section XVI. Painting and identification Marking	4-229
Section XVII. Preparation for Storage or Shipment	4-230
CHAPTER 5 DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE	
Section I. Rear Axle Maintenance	5-1
Section II. Brake System Maintenance	5-3
Section III. Brakedrum and Tire Maintenance	5-5
Section IV. Frame Maintenance	5-8
Section V. Springs Maintenance	5-12
Section VI. Body Maintenance	5-16
Section VII. Pumps, Meters, Valves, Lines, and Fittings Maintenance	5-24
Section VIII. Fire Extinguisher System Maintenance	5-29
APPENDIX A REFERENCES	A-1
APPENDIX B <u>MAINTENANCE ALLOCATION CHART</u>	B-1
APPENDIX C COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS	C-1

TABLE OF CONTENTS (Con't)

	Page
APPENDIX D ADDITIONAL AUTHORIZATION LIST.	D-1
APPENDIX E EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST	E-1
APPENDIX F ILLUSTRATED LIST OF MANUFACTURED ITEMS	F-1
APPENDIX G TORQUE LIMITS	G-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 (EIRs)	1-1
Scope	1-1

1-1. SCOPE.

a. This manual describes the operation and Organizational, Direct Support, and General Support Maintenance for:

- Semitrailer, Tank: Fuel, 4-Wheel, 5000 Gallon, M131A4.
- Semitrailer, Tank: Fuel Servicing, 4-Wheel, 5000 Gallon, M131A4C.
- Semitrailer, Tank: Fuel, 4-Wheel, 5000 Gallon, M131A5.
- Semitrailer, Tank: Fuel Servicing, 4-Wheel, 5000 Gallon, M131A5C.

b. Throughout the manual the terms “curbside” and “roadside” are used to describe views of the semitrailers. As viewed from the rear, curbside is right side and roadside is left side.

c. Similar models of semitrailers were produced by different manufacturers. As a result, minor differences in design among these semitrailers exist. These differences will be identified by serial number.

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 semitrailers for storage or shipment, refer to Chapter 4, Section XVII.

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

If your semitrailer 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 Form 368 (*Product Quality Deficiency Report*). Mail it to us at: Commander, U.S. Army 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..	1-20
Equipment Characteristics, Capabilities, and Features	1-2
Equipment Data	1-21
Location and Contents of Data Plates	1-14
Location and Contents of Stencil Markings	1-11
Location and Description of Major Components	1-3

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

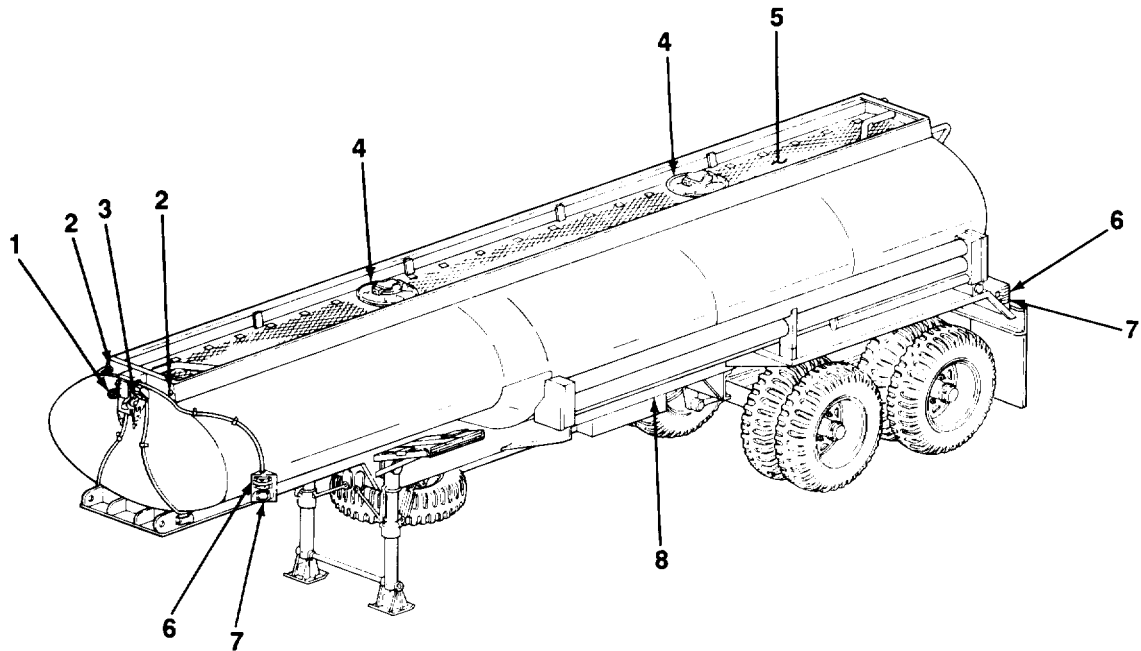
a. The M131 Series Fuel Tank Semitrailers are designed to be towed by the M52A2, M818, M931, or M932 5-Ton, 6 x 6 Tractor.

b. The semitrailers are equipped with:

- (1) A 24-volt electrical system capable of operating under standard and blackout modes.
- (2) Early model lighting system consisting of two service taillights, blackout taillight assemblies, and clearance marker lights.
- (3) Late model lighting system consisting of two composite taillights and clearance maker lights.
- (4) Air-over-hydraulic brake system which receives air pressure from the towing vehicle.
- (5) Spare wheel and tire carrier which uses a cable lift to raise and lower spare wheel and tire.
- (6) A two-speed retractable handcrank-type adjustable landing gear. The landing gear supports the semitrailer when not coupled to towing vehicle and is used to raise and lower chassis when preparing to couple and uncouple semitrailer and towing vehicle.
- (7) A two-or four-compartment stainless steel tank with a total capacity of 5000 gl (18,925 l). Each compartment is equipped with an emergency relief valve and a removable manhole cover and fill cover.
- (8) Air-cooled auxiliary engine and fuel dispensing pump unit used to load and unload fuel into individual compartments.
- (9) A slip resistant catwalk which provides access to the manholes. Two drain plugs are provided at front of catwalk for draining water or spilled fuel from the top of the tank.
- (10) Portable and fixed fire extinguisher systems.
- (11) Dual wheel tandem axle with leaf spring and torque rod suspension to absorb road shock.
- (12) Chock blocks to prevent accidental movement of semitrailer when parked.

c. The M131A4C and M131A5C are equipped with a filter-separator which removes any solid contaminants and water from the fuel.

1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.



M131A4 AND M131A5 ROADSIDE

Key	Component	Description
1	Service Air Coupling	Connects towing vehicle service air supply to semitrailer.
2	Drain Plug	When removed, allows water or spilled fuel to drain from top of semitrailer. Plugs must be installed at all times, except when washing semitrailer.
3	Emergency Air Coupling	Connects towing vehicle emergency air supply to semitrailer.
4	Manhole Cover	Allows access to inside of tank. M131A4 is equipped with four. M131A5 is equipped with two.
5	Catwalk	Nonskid surface on top of semitrailer.
6	Lights	Contain service, blackout, stoplight, and clearance marker lights on early models and composite light and clearance marker lights on late models.
7	Reflector	Marks outline of semitrailer.
8	Stowage Tube Assembly	Provides stowage for transfer hoses, ground rod, and petroleum gage stick.

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