

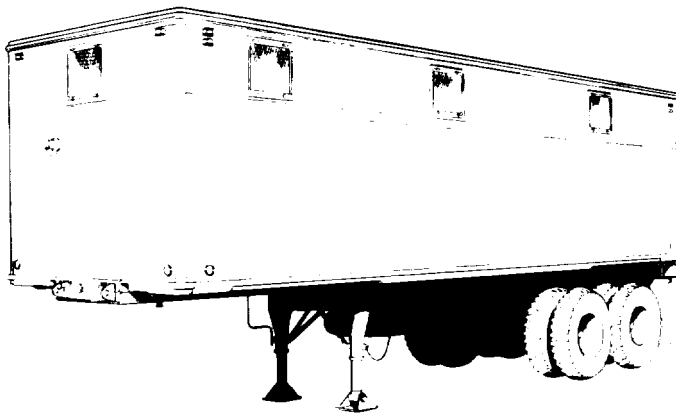
# TM9-2330-374-14&P

## TECHNICAL MANUAL

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

FOR

**SEMITRAILER, VAN: SUPPLY, 12-TON,  
4-WHEEL M129A3 (2330-01-175-7379)**



M129A3

INTRODUCTION	1-1
--------------	-----

OPERATING INSTRUCTIONS	2-1
------------------------	-----

OPERATOR MAINTENANCE INSTRUCTIONS	3-1
-----------------------------------	-----

ORGANIZATIONAL MAINTENANCE INSTRUCTIONS	4-1
---	-----

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS	5-1
---	-----

HEADQUARTERS, DEPARTMENT OF THE ARMY

JULY 1986

TECHNICAL MANUAL  
No. 9-2330-374-14&P

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
Washington, D.C., 18 July, 1986

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

FOR

**SEMITRAILER, VAN: SUPPLY, 12-TON, 4-WHEEL,  
M129A3 (2330-01-175-7379)**

Current as of 20 June 1986

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

	Page
<b>CHAPTER 1. INTRODUCTION</b>	
Section I. General Information . . . . .	1-1
Section II. Equipment Description . . . . .	1-2
Section III. Technical Principles of Operation . . . . .	1-5
<b>CHAPTER 2. OPERATING INSTRUCTIONS</b>	
Section I. Description and Use of Operator's Controls and Indicators . . . . .	2-1
Section II. Operator/Crew Preventive Maintenance Checks and Services . . . . .	2-9
Section III. Operation Under Usual Conditions . . . . .	2-17
Section IV. Operation Under Unusual Conditions . . . . .	2-26
<b>CHAPTER 3. OPERATOR MAINTENANCE INSTRUCTIONS</b>	
Section I. Lubrication Instructions . . . . .	3-1
Section II. Operator Troubleshooting Procedures . . . . .	3-5
Section III. Maintenance Procedures . . . . .	3-9

		Page
<b>CHAPTER</b>	<b>4.</b>	<b>ORGANIZATIONAL MAINTENANCE INSTRUCTIONS</b>
Section I.		Repair Parts, Special Tools, TMDE and Support Equipment . . . 4-1
Section II.		Service Upon Receipt of Materiel . . . . . 4-2
Section III.		Organizational Preventive Maintenance Checks and Services (PMCS) . . . . . 4-3
Section IV.		Organizational Troubleshooting Procedures . . . . . 4-6
Section V.		Maintenance of Electrical System . . . . . 4-14
Section VI.		Maintenance of Brakes . . . . . 4-44
Section VII.		Maintenance of Wheels, Hubs and Drums . . . . . 4-65
Section VIII.		Maintenance of Spare Tire Carrier . . . . . 4-71
Section IX.		Maintenance of Landing Legs . . . . . 4-74
Section X.		Maintenance of Body . . . . . 4-79
Section XI.		Maintenance of Miscellaneous Body Accessories . . . . . 4-91
Section XII.		Preparation for Storage and Shipment . . . . . 4-95
Section XIII.		Maintenance Under Unusual Conditions . . . . . 4-97
<b>CHAPTER</b>	<b>5.</b>	<b>DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS</b>
Section I.		Repair Parts, Special Tools, TMDE and Support Equipment . . . 5-1
Section II.		Maintenance of Axle Assembly . . . . . 5-1
Section III.		Maintenance of Brakes . . . . . 5-6
Section IV.		Maintenance of Frame . . . . . 5-7
Section V.		Maintenance of Suspension . . . . . 5-9
Section VI.		Rebuild of the Deck . . . . . 5-13
<b>APPENDIX</b>	<b>A.</b>	<b>REFERENCES . . . . . A-1</b>
<b>APPENDIX</b>	<b>B.</b>	<b>MAINTENANCE ALLOCATION CHART . . . . . B-1</b>
<b>APPENDIX</b>	<b>C.</b>	<b>COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LIST . . . . . C-1</b>
<b>APPENDIX</b>	<b>D.</b>	<b>ADDITIONAL AUTHORIZATION LIST . . . . . D-1</b>
<b>APPENDIX</b>	<b>E.</b>	<b>EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST. . . . . E-1</b>
<b>APPENDIX</b>	<b>F.</b>	<b>REPAIR PARTS AND SPECIAL TOOLS LIST . . . . . F-1</b>
Section I.		Introduction . . . . . F-1
Section II.		Repair Parts List
		Illus/Figure
Group	06	<b>ELECTRICAL SYSTEM</b>
		0608 Electrical System . . . . . 1
		0608 Van Electrical System (sheet 1 of 3) . . . . . 2
		0608 Van Electrical System (sheet 2 of 3) . . . . . 2
		0608 Van Electrical System (sheet 3 of 3) . . . . . 2
		0608 Electrical Plates . . . . . 3
		0608 Circuit Breaker and Switch Box . . . . . 4
		0608 Dome Light Switches . . . . . 5
		0608 Ventilating Fan . . . . . 6
		0609 Clearance Light. . . . . 7
		0609 12 Volt Taillight . . . . . 8
		0609 24 Volt Composite Taillight . . . . . 9
		0609 110 Volt Dome Light . . . . . 10
		0609 24 Volt Dome Light . . . . . 11
		0613 Chassis Electrical System Components (sheet 1 of 2) . . . . . 12

		Illus/Figure
	0613 Chassis Electrical System Components (sheet 2 of 2) . . . . .	12
Group 11	REAR AXLE	
	1100 Axle Assembly (serial numbers 1HzV2920XE1007033 to 1HZV29201E1007439) . . . .	13
	1100 Axle Assembly (serial numbers 1HZV29201E1007440 to 1HzV29208E1007709) . . . .	14
Group 12	BRAKES	
	1202 Brake Shoes (serial numbers 1HZV2920XE1007033 to 1HZV29201E1007439) . . . .	15
	1202 Brake Shoes (serial numbers 1HzV29201E1007440 to 1HZV29208E1007709) . . . .	16
	1206 Slack Adjuster . . . . .	17
	1208 Air Brake Chamber . . . . .	18
	1208 Brake System (sheet 1 of 2) . . . . .	19
	1208 Brake System (sheet 2 of 2) . . . . .	19
Group 13	WHEELS	
	1311 Hub and Brake Drum.... . . . .	20
	1311 Tire and Wheel Assembly . . . . .	21
Group 15	FRAME, TOWING ATTACHMENTS AND DRAWBARS	
	1501 Mud Flap . . . . .	22
	1501 Chock Block . . . . .	23
	1501 Step . . . . .	24
	1501 Ladder Assembly . . . . .	25
	1501 Float Pad Assembly (Ground Board) . . . . .	26
	1504 Spare Tire Carrier Assembly . . . . .	27
	1507 Landing Legs . . . . .	28
Group 16	SPRINGS AND SHOCK ABSORBERS	
	1607 Suspension . . . . .	29
Group 18	BODY ASSEMBLY	
	1800 Van Fasteners . . . . .	30
	1801 Right Door Assembly . . . . .	31
	1801 Left Door Assembly . . . . .	32
	1801 Door Holdbacks . . . . .	33
	1801 Retractable Sash . . . . .	34
	1801 Stationary Sash . . . . .	35
	1805 Floor . . . . .	36
Group 22	BODY CHASSIS AND ACCESSORY ITEMS	
	2202 Reflectors . . . . .	37
	2210 Data Plate . . . . .	38
<b>APPENDIX</b>	<b>G. MANUFACTURED ITEMS</b> . . . . .	Page G-1
<b>APPENDIX</b>	<b>H. TORQUE LIMITS</b> . . . . .	H-1

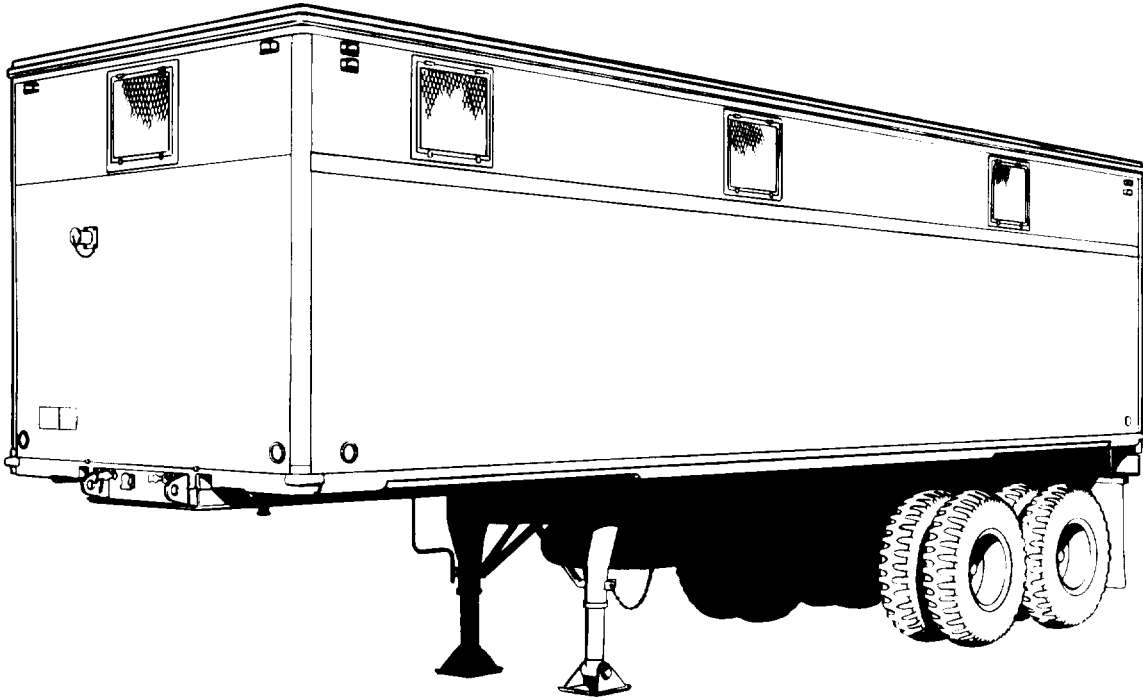


Figure 1-1. Semitrailer, M129A3, left front view

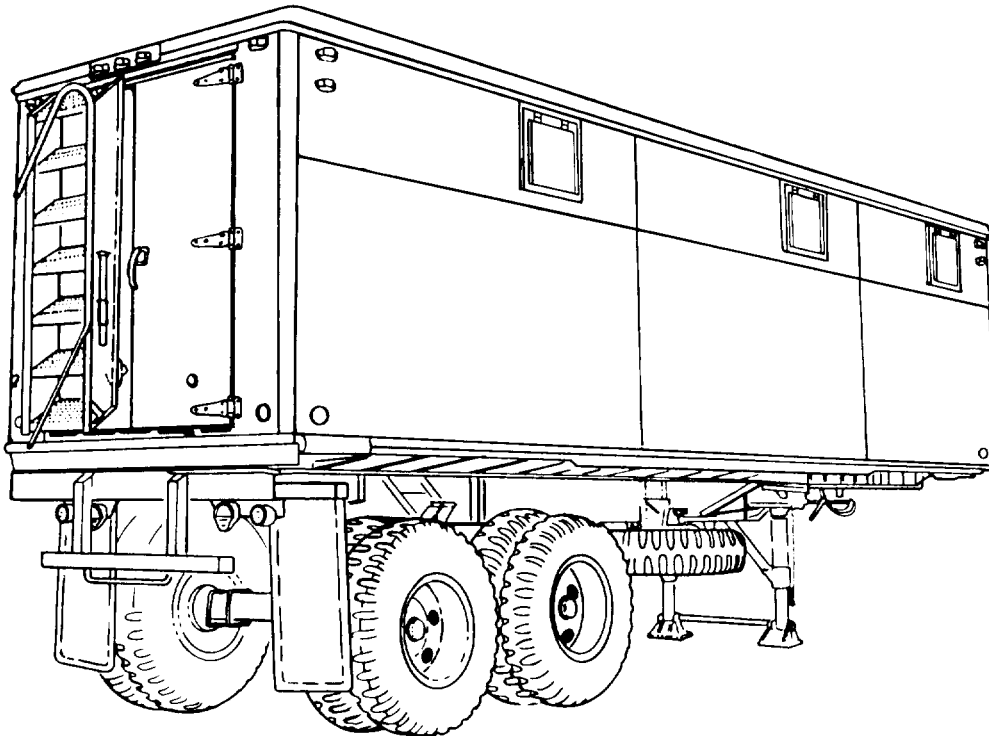


Figure 1-2. Semitrailer, M129A3, right rear view

**CHAPTER 1****INTRODUCTION****SECTION 1. GENERAL INFORMATION****1-1. SCOPE**

a. Type of Manual. Operator's, Organizational, Direct Support and General Support Maintenance Manual (including Repair Parts and Special Tools Lists).

b. Model Number and Equipment Name.

M129A3 Semitrailer, Van: Supply, 12-ton, 4-wheel

c. Purpose of Equipment. The semitrailers are intended for use in transporting military supplies.

d. Special Limitations on Equipment. Do not exceed the load and speed limitation of the semitrailer. The semitrailer is designed to be towed over smooth, hard-surfaced roads with loads up to 12-tons (10,900 kg) at speeds as high as 50 mph (80 km/h). It can also be towed-over unimproved roads, trails and open rolling terrain with loads up to 12-tons (10,900 kg) at a sustained speed of 20 mph (32 km/h). The semitrailer should be operated only after being serviced and equipped for existing climatic conditions.

**1-2. MAINTENANCE FORMS AND RECORDS**

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**

Refer to TM 750-244-6, Procedures for Destruction of Equipment to Prevent Enemy Use (Us. Army Tank-Automotive Command).

**1-4. PREPARATION FOR STORAGE OR SHIPMENT**

See Chapter 4 for storage and shipment information.

**1-5. REPORTING EQUIPMENT 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 or performance. Put it on an SF368 (Quality Deficiency Report). Mail it to Commander, U.S. Army Tank-Automotive Command, Attn: AMSTA-MP, Warren, MI 48397-5000. We'll send you a reply.