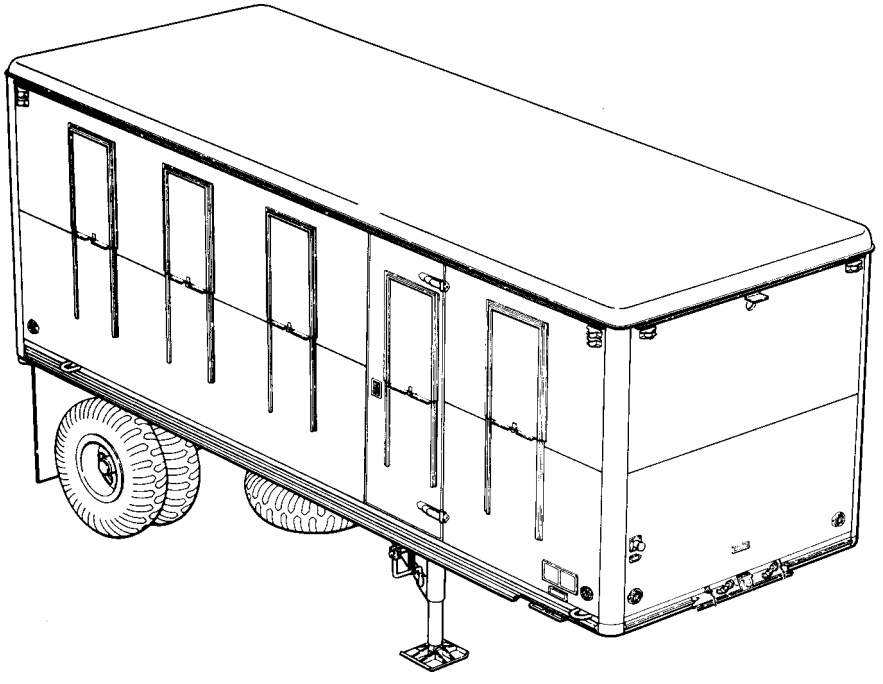
TECHNICAL MANUAL

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



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SEMITRAILER, VAN: SHOP, 6-TON, SINGLE AXLE, M146 (NSN 2330-00-569-9372)

HEADQUARTERS, DEPARTMENT OF THE ARMY

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DEPARTMENT OF THE ARMY
WASHINGTON, D.C. *11 June 1985*

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

SEMITRAILER, VAN: SHOP
6-TON, SINGLE AXLE
M146 (NSN 2330-00-569-9372)
M146F (NSN 2330-00-015-6620)

Current as of 26 October 1984

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 directly to: Commander, US Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 48397-5000. A reply will be sent to you.

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CHAPTER 1

INTRODUCTION

OVERVIEW

The purpose of this chapter is to acquaint you with the M146 shop van semitrailer's equipment, size, shape, and how the semitrailer system works.

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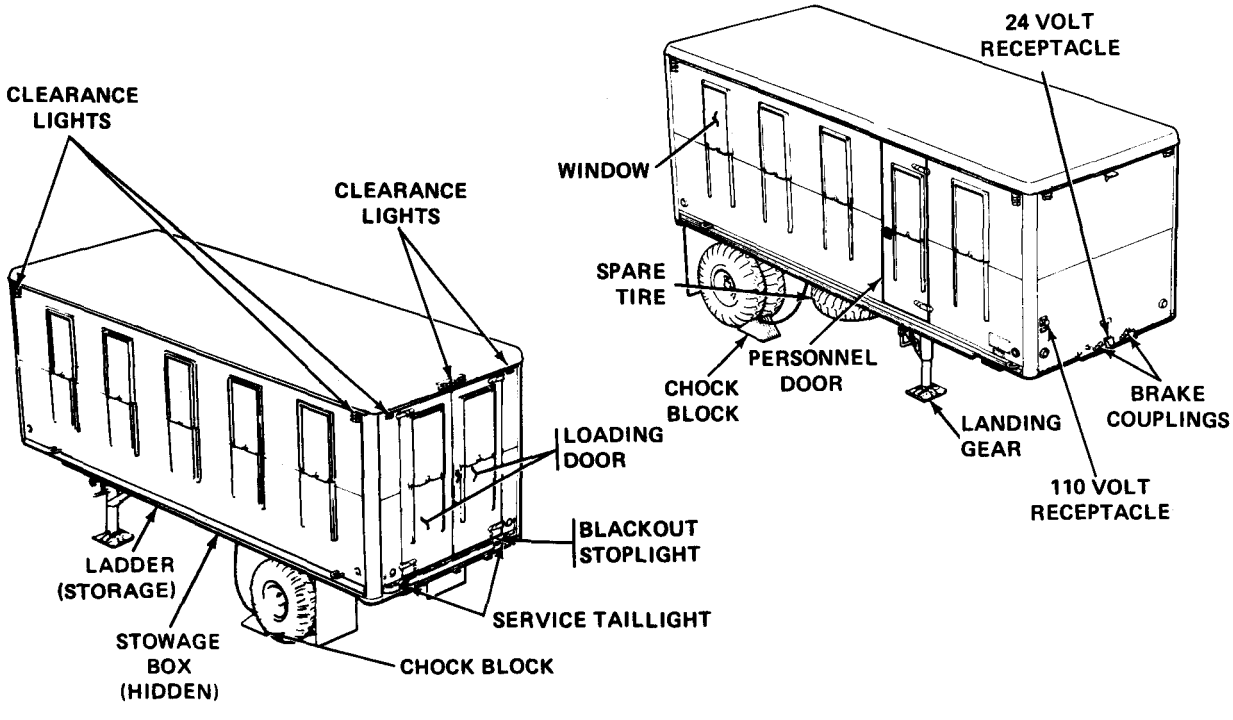
Section I. GENERAL INFORMATION



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TA231187

SCOPE

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

Model Number and Equipment Name: M146 Shop Van Semitrailer. Early and late models.

Purpose of Equipment: To provide quarters for field shop equipment.

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).

EQUIPMENT IMPROVEMENT REPORT AND MAINTENANCE DIGEST (EIR MD)

The quarterly Equipment Improvement Report and Maintenance Digest, TB 43-0001-39 series, contains valuable field information on the equipment covered in this manual. The information in the TB 43-0001-39 series is compiled from some of the Equipment Improvement Reports that you prepared on the vehicle covered in this manual. Many of these articles result from comments, suggestions, and improvement recommendations that you submitted to the EIR program. The TB 43-0001-39 series contains information on equipment improvements, minor alterations, proposed Modification Work Orders (MWO;s), warranties (if applicable), actions taken on some of your DA Form 2028's (Recommended Changes to Publications), and advance information on proposed changes that may affect this manual. The information will help you in doing your job better and will help in keeping you advised of the latest changes to this manual. Also refer to DA PAM 310-1 Consolidated Index of Army Publications and Blank Forms, and Appendix A, References, of this manual.

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

Refer to TM 750-244-6, Procedures for Destruction of Tank-Automotive Equipment to Prevent Enemy Use.

PREPARATION FOR STORAGE OR SHIPMENT

Requirements for packaging and administrative storage are contained in Chapter 4.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR'S)

If your 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 (Product Quality Deficiency Report). Mail it to us at: Commander, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MP, Warren, MI 48397-5000. We'll send you a reply.

Section II. EQUIPMENT DESCRIPTION AND DATA

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EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

CHARACTERISTICS

The M146 semitrailer is designed to be pulled by a truck tractor equipped with a fifth wheel and to provide quarters for shop equipment.

The semitrailer has four wheels mounted on a single axle with two landing gear legs for parking.

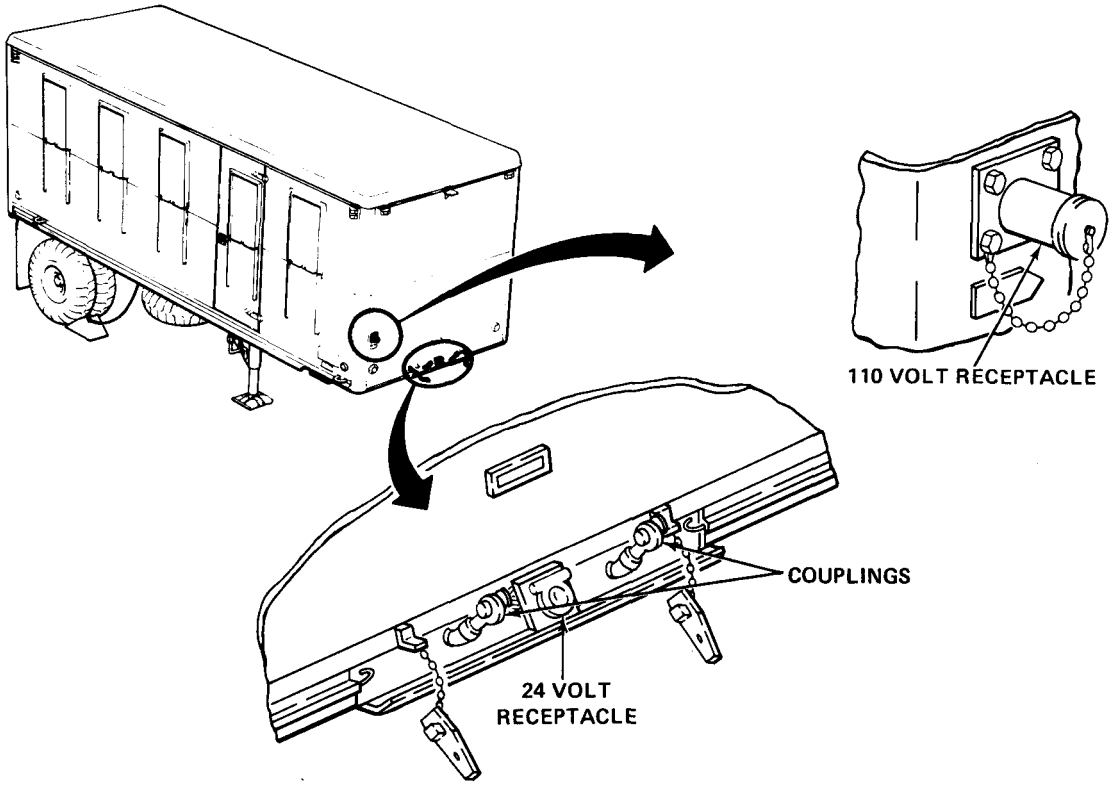
There is an air over hydraulic service brake system for this semitrailer.

CAPABILITIES AND FEATURES

The semitrailer is designed to haul equipment of up to 6 tons (5.44 metric tons (mton)) cross-country and 8 tons (7.26 mton) on the highway.

There is a van-type body attached to the frame of this semitrailer with both a 24-volt and 110-volt electrical system. There are electrical receptacles inside the van body which run off the 110-volt system. The 110-volt system receives its power from an outside source.

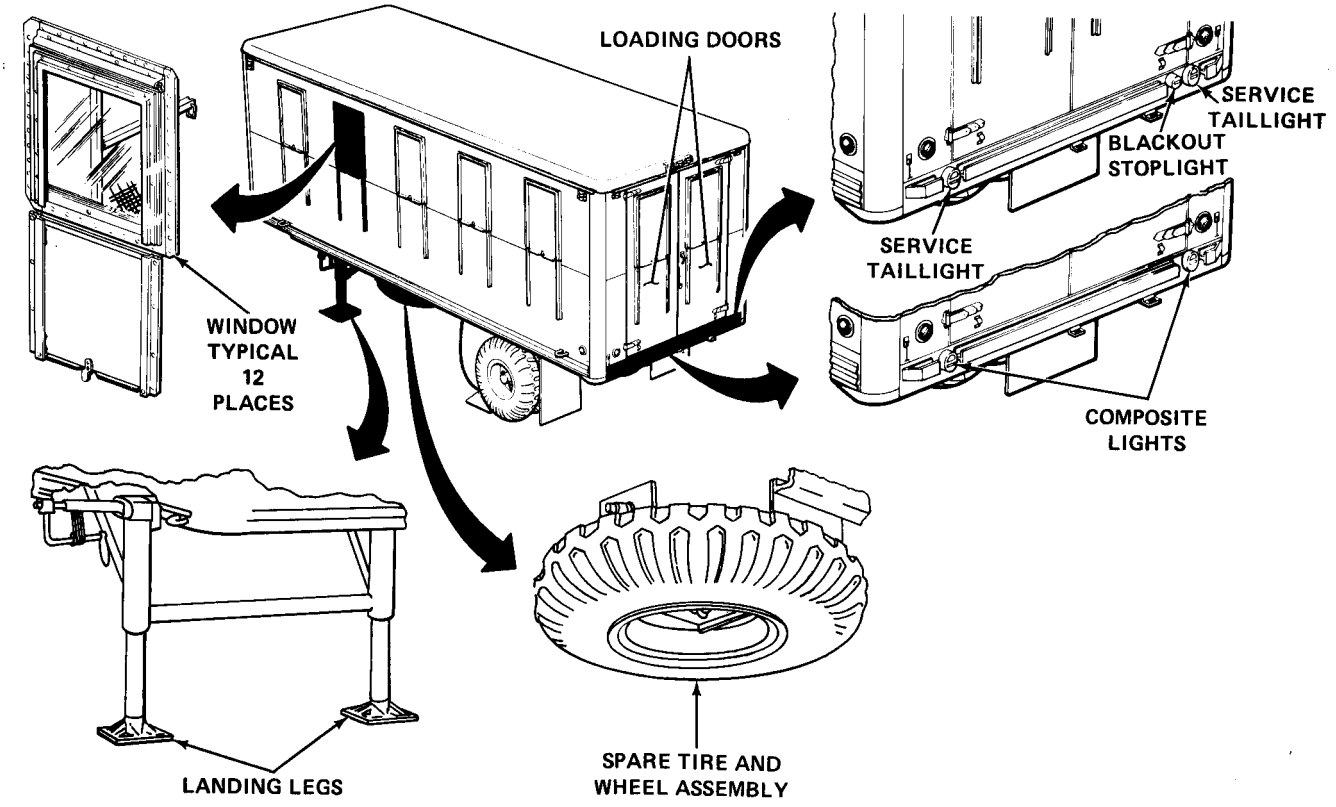
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS



Combinations of 24 volts direct current (vdc) and 110 volts alternating current (vac) systems may vary on the early and late model M146 semitrailer.

The M146 semitrailer is equipped with a van body which has the 110-volt and 24-volt electrical receptacles located at the front along with the airbrake couplings. The 110-voit receptacle receives power from an outside source for inside lights and wall receptacles. The 24-volt receptacle receives power from the towing vehicle for outside and inside lighting. The airbrake couplings connect the semitrailer and the towing vehicle's brake systems. TA231188

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED

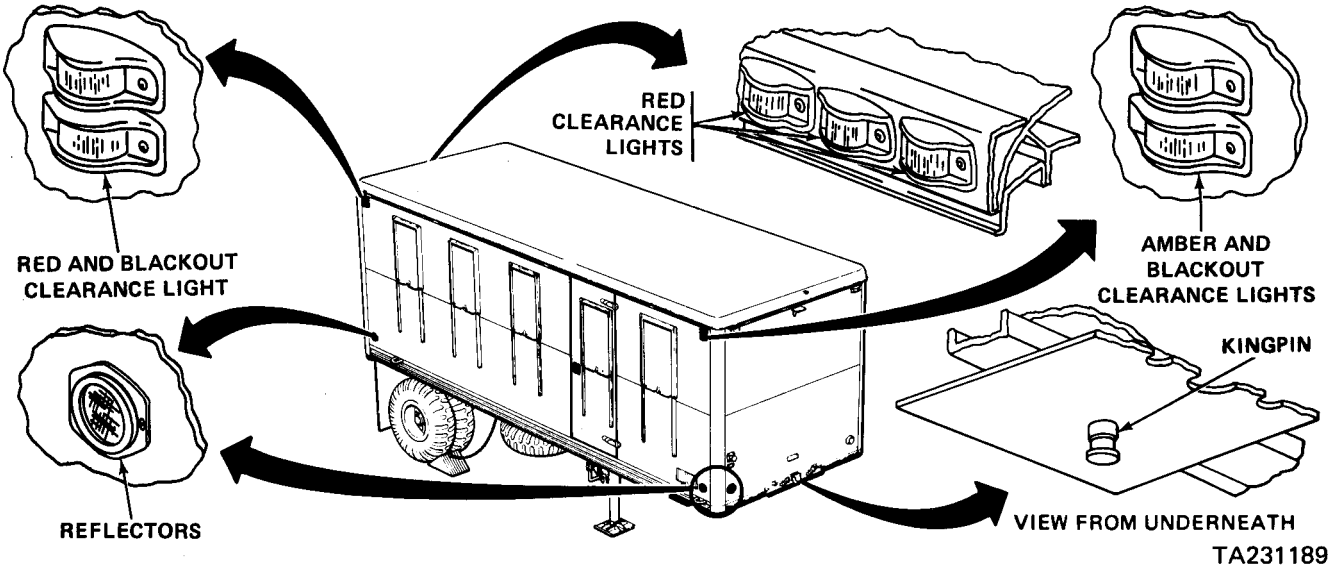


The two-speed manual landing gear legs are operated separately. They are used to support and level the front end of the semitrailer when not coupled.

The spare tire and wheel assembly is located under the right rear portion of the frame. It is mounted to a winch designed so that the spare wheel does not have to be lifted by hand.

There are two loading doors at the rear of the semitrailer. The van body is equipped with twelve windows, five on either side and two in the back. The windows have blackout panels and screens.

There are two service taillights located at each lower rear corner with a blackout stoplight on the lower right rear corner. Some semitrailers may have two composite lights in place of the service taillights and blackout stoplight.



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