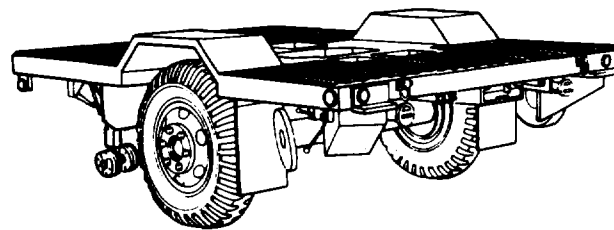
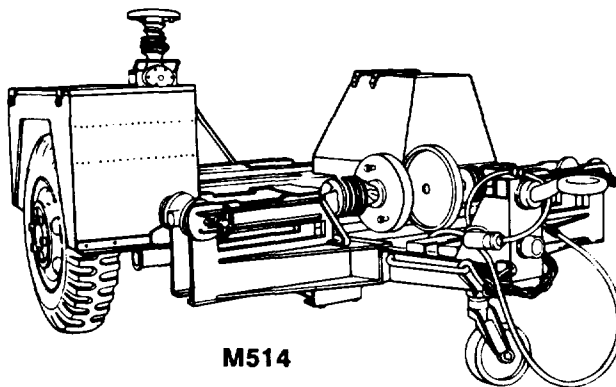


**TECHNICAL MANUAL
OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT,
AND GENERAL SUPPORT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS)**

**FOR
TRAILER, CHASSIS: 1-TON, 2-WHEEL
M514 (NSN 2330-00-542-5753)
AND
TRAILER, CHASSIS: 2-TON, 2-WHEEL
M390C (NSN 2330-00-542-3491)**



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This manual supersedes TM 9-2330-235-14&P, dated 26 October 1990.

Approved for public release; distribution is unlimited.

**HEADQUARTERS, DEPARTMENT OF THE ARMY
NOVEMBER 1992**

TECHNICAL MANUAL
TM 9-2330-235-14&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington D.C., 10 November 1992

**OPERATOR’S, ORGANIZATIONAL, DIRECT SUPPORT,
AND GENERAL SUPPORT MAINTENANCE MANUAL
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FOR
TRAILER, CHASSIS: 1-TON, 2-WHEEL
M514 (2330-00-542-5753)
AND
TRAILER, CHASSIS: 2-TON, 2-WHEEL
M390C (2330-00-542-3491)
Current as of 21 February 1992**

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 20282, 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.

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CHAPTER 1 INTRODUCTION

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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 Numbers and Equipment Names.**

(1) Trailer, Chassis: 1-Ton, 2-Wheel, M514.

(2) Trailer, Chassis: 2-Ton, 2-Wheel, M390C.

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 information on 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 XIV.

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

If your trailer needs improvement, let us know. 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 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'll send you a reply.

Section II. EQUIPMENT DESCRIPTION AND DATA

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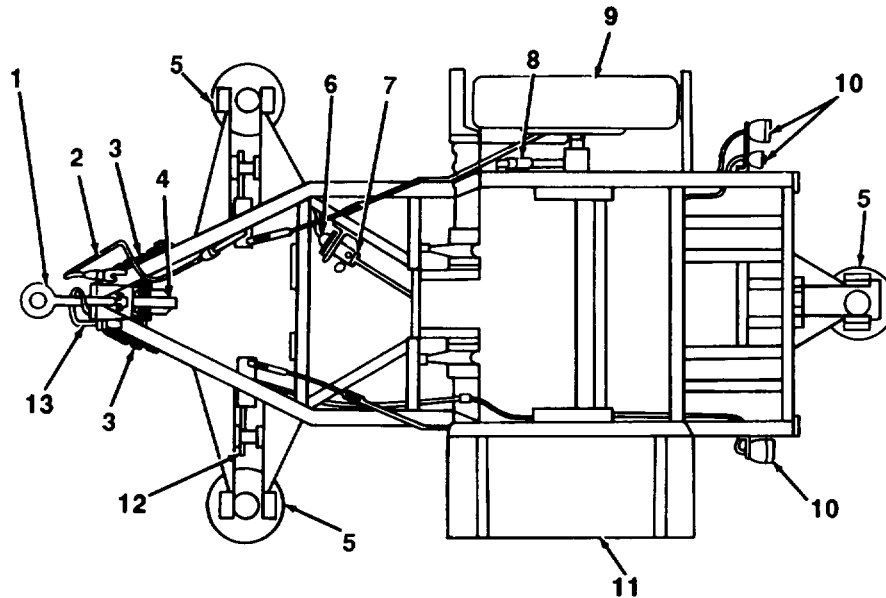
1-6. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

a. The M514 and M390C Chassis Trailers are designed to be towed by a towing vehicle with a minimum air supply of 100 psi (690 kPa) and a 24volt electrical system.

b. Maximum towing speed is 50 mi/h (80 km/h) highway and 25 mi/h (40 km/h) cross-country.

c. Major features of the trailers include:

- (1) Electrical system operates in standard and blackout modes.
- (2) Leveling jacks provide a method of leveling and stabilizing the trailer.
- (3) Air-over-hydraulic service brakes use air pressure from the towing vehicle.
- (4) Retractable support assembly supports the front of the trailer when not coupled to the towing vehicle.
- (5) Stepladder allows the operator to board the trailer (M390C).

1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.a. M514.

Key	Component	Description
1	Drawbar Coupler	Couples trailer to the towing vehicle pintle.
2	Intervehicular Air Hose	Connects towing vehicle airbrake system to the trailer.
3	Safety Chains	Reinforce trailer-to-towing vehicle coupling.
4	Retractable Support Assembly	Supports the front of the trailer when not coupled to the towing vehicle.
5	Leveling Jacks	Level and stabilize the trailer.
6	Airbrake Chamber	Converts air pressure to mechanical force to actuate the brakes.
7	Master Cylinder	Converts mechanical force to hydraulic pressure to actuate the brakes.
8	Shock Absorbers	Cushion road shock.
9	Tires	Support trailer load.
10	Lights	Consist of stoplight-taillight assemblies or composite light assemblies.
11	Toolboxes	Store tools. Part of trailer fenders.
12	Handbrake Levers	Actuate the brakes when trailer is stopped or parked.
13	Intervehicular Cable	Connects towing vehicle electrical system to the trailer.

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