

DEPARTMENT OF THE ARMY

TECHNICAL MANUAL

DEPARTMENT OF THE AIR

FORCE TECHNICAL ORDER

TM 9-8240

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**OPERATION
ORGANIZATIONAL
MANNTENANCE
AND ORDNANCE
FIELD AND DEPOT
MAINTENANCE
12-TON, 4-WHEEL
WRECKER LOW-BED
SEMITRAILERS
M9, M270, AND M270A1**

This copy is a reprint which includes current
pages from Changes 1 thru 3.

DEPARTMENTS OF THE ARMY AND THE AIR FORCE

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TECHNICAL ORDER		
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**12-TON, 4-WHEEL WRECKER LOW-BED SEMITRAILERS
M269, M270, AND M270A1**

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1. Scope

a. This manual contains instructions for operation and organizational maintenance of the 12-ton 4-wheel wrecker low-bed semitrailers M270A1 (figs. 1, 4, and 7), M270 (figs. 2 and 5), and M269 (figs. 3, 6, and 8) for the using organization, and instructions for field and depot maintenance for ordnance maintenance personnel.

b. The appendix contains a list of current references, including supply manuals, technical manuals, and other available publications applicable to the materiel.

c. TM 9-1827C contains repair and rebuild instructions on the M270A1 brake mechanism and master cylinder. TM 9-1827A and TM 9-8601 contain repair and rebuild instructions on the air chambers, check valves, emergency relay valves, and air filters.

d. This first edition is published in advance of complete technical review. Any errors or omissions will be brought to the attention of Chief of Ordnance, Headquarters, Department of the Army, Washington 25, D. C. ATTN: ORDFM-Pub.

2. Maintenance Allocation

a. *Organizational Maintenance Allocation.* In general, the prescribed organizational maintenance responsibilities will apply as reflected in the allocation of tools and supply parts in the appropriate columns of the current ORD 7 supply manual pertaining to this materiel and in accordance with the extent of disassembly prescribed in this manual for the purpose of cleaning, lubricating, or replacing authorized spare parts. In all cases where the nature of the repair, modification, or adjustment is beyond the scope or facilities of the using organization, the supporting ordnance maintenance unit should be informed in order that trained personnel with suitable tools and equipment may be provided or other proper instructions issued.

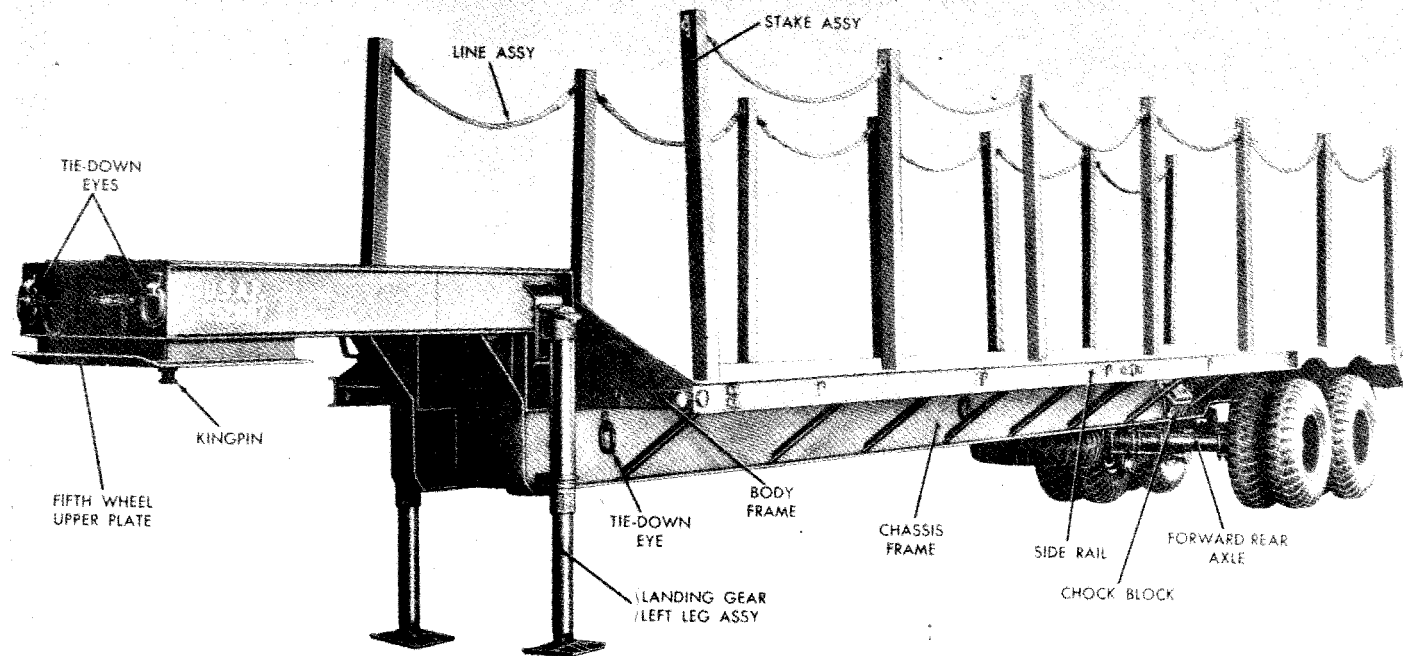


Figure 1. Wrecker low-bed semitrailer M270A1—left-front view.

Note. In cases of emergency and with prior approval of the supporting ordnance officer, the using organization may replace certain assemblies, such as axles, trunnion cross tube, and springs which are normally replaced by ordnance maintenance units. Replacement assemblies, necessary tools not carried by the using organization, special instructions regarding the assembly and associated accessories, etc., may be obtained from the supporting ordnance maintenance unit.

b. Field and Depot Maintenance Allocation. The publication here in of instructions for complete disassembly and rebuild is not to be construed as authority for the performance by field maintenance units of those functions which are restricted to depot shops and arsenals. In general, the prescribed maintenance responsibilities will be reflected in the allocation of maintenance parts listed in the appropriate columns of the current ORD 8 supply manual pertaining to this materiel. (When the ORD 8 supply manual is not available, the field and depot maintenance allocation may be determined in accordance with chapter 4 of this manual.) Instructions for depot maintenance are to be used by maintenance companies in the field only when the tactical situation makes the repair functions imperative. Supply of parts listed in the depot guide column of ORD 8 supply manuals will be made to field maintenance only when the emergency nature of the maintenance to be performed has been certified by a responsible officer of the requisitioning organization.

3. Forms, Records, and Reports

a. General. Responsibility for the proper execution of forms, records, and reports rests upon the officers of all units maintaining this equipment. However, the value of accurate records must be fully appreciated by all persons responsible for their compilation, maintenance, and use. Records, reports, and authorized forms are normally utilized to indicate the type, quantity, and condition of materiel to be inspected, repaired, or used in repair. Properly executed forms convey authorization and serve as records for repair or replacement of materiel in the hands of troops and for delivery of materiel requiring further repair to ordnance shops in arsenals, depots, etc. The forms, records, and reports establish the work required, the progress of the work within the shops, and the status of the materiel upon completion of its repair.

b. Authorized Forms. The forms generally applicable to units operating and maintaining this equipment are listed in the appendix., For a listing of all forms, refer to DA Pam 310-2. For instructions on use of these forms, refer to FM 9-10.

c. *Field Reports of Accidents.* The reports necessary to comply with the requirements of the Army safety program are prescribed in detail in SR 385-10-40. These reports are required whenever accidents involving injury to personnel or damage to materiel occur.

d. *Report of Unsatisfactory Equipment and Materiels.* Any deficiencies detected in the equipment covered herein which occur under the circumstances indicated in AR 700-38 should be immediately reported in accordance with the applicable instructions in those regulations.

Section II. DESCRIPTION AND DATA

4. Description

a. General.

- (1) The 12-ton 4-wheel wrecker low-bed semitrailers M270A1 (figs. 1, 4, and 7), M270 (figs. 2 and 5), and M269 (figs. 3, 6, and 8) are designed to be towed by the 5 ton 6 x 6 truck tractor M52 or similar vehicle equipped with fifth wheel (lower coupler).
- (2) Each semitrailer has two axles at the rear mounted on a leaf-spring suspension. A fifth wheel upper plate (figs. 1-3) under the front end or nose of the semitrailer includes a kingpin which is fitted into the fifth wheel on a towing vehicle to permit the semitrailer to be towed. A foot-type landing gear (retractable support) (figs. 1-3) supports the front end of the semitrailer when not coupled to a towing vehicle.
- (3) Each semitrailer is equipped with two chock blocks (fig. 14) to prevent rolling when parked. Each chock block is chained to the chassis frame to prevent loss. When not in use, chains and blocks are carried in brackets welded to the chassis frame beams near the rear end.
- (4) The spare tire is carried on a winch-type spare wheel and tire carrier assembly (figs. 4-6) under the right side of the chassis frame. A tool box, of which the tool box door (figs. 7 and 8) is part, is provided between the chassis frame beams at the front end or nose of the semitrailer, directly over the fifth wheel upper plate.
- (5) Lights on each semitrailer are supplied with current by and operated from the towing vehicle.

b. Semitrailer M270A1.

- (1) Semitrailer M270A1 has been designed to be towed