

TM 9-884

WAR DEPARTMENT TECHNICAL MANUAL

7-TON PAYLOAD, 4-WHEEL, VAN SEMITRAILER W/DOLLY

(ORDNANCE M26 AND
SIGNAL CORPS V-9/MPG-1)

RESTRICTED. DISSEMINATION OF RESTRICTED MATTER.
No person is entitled solely by virtue of his grade or position
to knowledge or possession of classified matter. Such matter
is entrusted only to those individuals whose official duties
require such knowledge or possession. (See also paragraph
23b, AR 380-5, 15 March 1944.)

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• 2 MARCH 1945

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WAR DEPARTMENT
Washington 25, D. C., 2 March 1945

TM 9-884, 7-ton Payload, 4-wheel, Van Semitrailer w/Dolly (Ordnance M26 and Signal Corps V-9/MPG-1), is published for the information and guidance of all concerned.

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G. C. MARSHALL,
Chief of Staff.

OFFICIAL:

J. A. ULIO,
Major General,
The Adjutant General.

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(For explanation of symbols, see FM 21-6.)

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RESTRICTED**PART ONE—INTRODUCTION****Section I****GENERAL****1. SCOPE.**

a. These instructions* are published for information and guidance of all concerned. They contain information on operation and maintenance of the equipment as well as descriptions of major units and their functions in relation to other components of this vehicle. They apply to the 7-ton Payload, 4-wheel, Van Semitrailer M26 w/dolly, and the 10-ton gross, 4-wheel Tandem, Semitrailer V-9/MPG-1 w/dolly, and are arranged in four parts; Part One, Introduction; Part Two, Operating Instructions; Part Three, Maintenance Instructions; and Part Four, Auxiliary Equipment.

b. The appendix at the end of the manual contains instructions for shipment and limited storage, and a list of references including standard nomenclature list, technical manuals, and other publications applicable to the vehicle.

2. RECORDS.

a. Forms and records applicable for use in performing prescribed operations are listed below with a brief explanation of each:

(1) W.D., A.G.O. FORM NO. 9-74, ARMY MOTOR VEHICLE OPERATOR'S PERMIT. This form will be issued by commanding officers of posts, camps, stations, or organizations, to all operators of military vehicles who have passed the driver's examination (TM 21-300) and are qualified to drive the particular vehicles noted on the permit.

(2) WAR DEPARTMENT LUBRICATION ORDER. War Department Lubrication Order LO 9-844 prescribes lubrication maintenance for this vehicle. A lubrication order is issued with each vehicle and is to be carried with it at all times.

(3) STANDARD FORM NO. 26, DRIVER'S REPORT—ACCIDENT, MOTOR TRANSPORTATION. One copy of this form will be kept with the vehicle at all times. In case of an accident resulting in injury or property damage, it will be filled out by the driver on the spot, or as promptly as practical thereafter.

*To provide operating instructions with the materiel, this technical manual has been published in advance of complete technical review. Any errors or omissions will be corrected by changes or, if extensive, by an early revision.

(4) **WAR DEPARTMENT FORM NO. 48, DRIVER'S TRIP TICKET AND PREVENTIVE MAINTENANCE SERVICE RECORD.** This form, properly executed, will be furnished to the driver when his vehicle is dispatched on nontactical missions. The driver and the official user of the vehicle will complete in detail appropriate parts of this form. These forms need not be issued for vehicles in convoy or on tactical missions. The reverse side of this form contains the driver's daily and weekly preventive maintenance service reminder schedule.

(5) **W.D., A.G.O. FORM NO. 478, MWO AND MAJOR UNIT ASSEMBLY REPLACEMENT RECORD.** This form, carried with the vehicle, will be used by all personnel completing a modification or major unit assembly replacement to record clearly the description of work completed, date, vehicle hours and/or mileage, and MWO number or nomenclature of unit assembly. Personnel performing the operation will initial in the column provided. Minor repairs, parts, and accessory replacements will not be recorded.

(6) **W.D., A.G.O. FORM NO. 460, PREVENTIVE MAINTENANCE ROSTER.** This form will be used for scheduling and maintaining a record of motor vehicle maintenance operations.

(7) **W.D., A.G.O. FORM NO. 6, DUTY ROSTER.** This form, slightly modified, may be used for scheduling and maintaining a record of vehicle maintenance operations if W.D., A.G.O. Form No. 460 is not available. It may be used for lubrication records.

(8) **WD., A.G.O. FORM NO. 461, PREVENTIVE MAINTENANCE SERVICE AND TECHNICAL INSPECTION WORK SHEET FOR WHEELED AND HALF-TRACK VEHICLES.** This form will be used for all 1,000-mile (monthly) and 6,000-mile (semiannual) maintenance services and all technical inspections performed on wheeled or half-track vehicles.

(9) **W.D., A.G.O. FORM NO. 9-70, SPOT-CHECK INSPECTION REPORT FOR ALL MOTOR VEHICLES.** This form may be used by all commanding officers or their staff representatives in making spot-check inspections on all vehicles.

(10) **W.D., A.G.O. FORM 468, UNSATISFACTORY EQUIPMENT REPORT.** This form will be used for reporting manufacturing, design, or operational defects in materiel with a view to improving and correcting such defects, and for use in recommending modifications on materiel. This form will not be used for reporting failures, isolated materiel defects, or malfunctions of materiel resulting from fair wear and tear or accidental damage; nor for the replacement, repair, or the issue of parts and equipment. It does not replace currently authorized operation or performance records.

(11) **W.D., A.G.O. FORM NO. 9-81, EXCHANGE PART OR UNIT IDENTIFICATION TAG.** The tag, properly executed, may be used when exchanging unserviceable items for like serviceable assemblies, parts, vehicles, and tools.

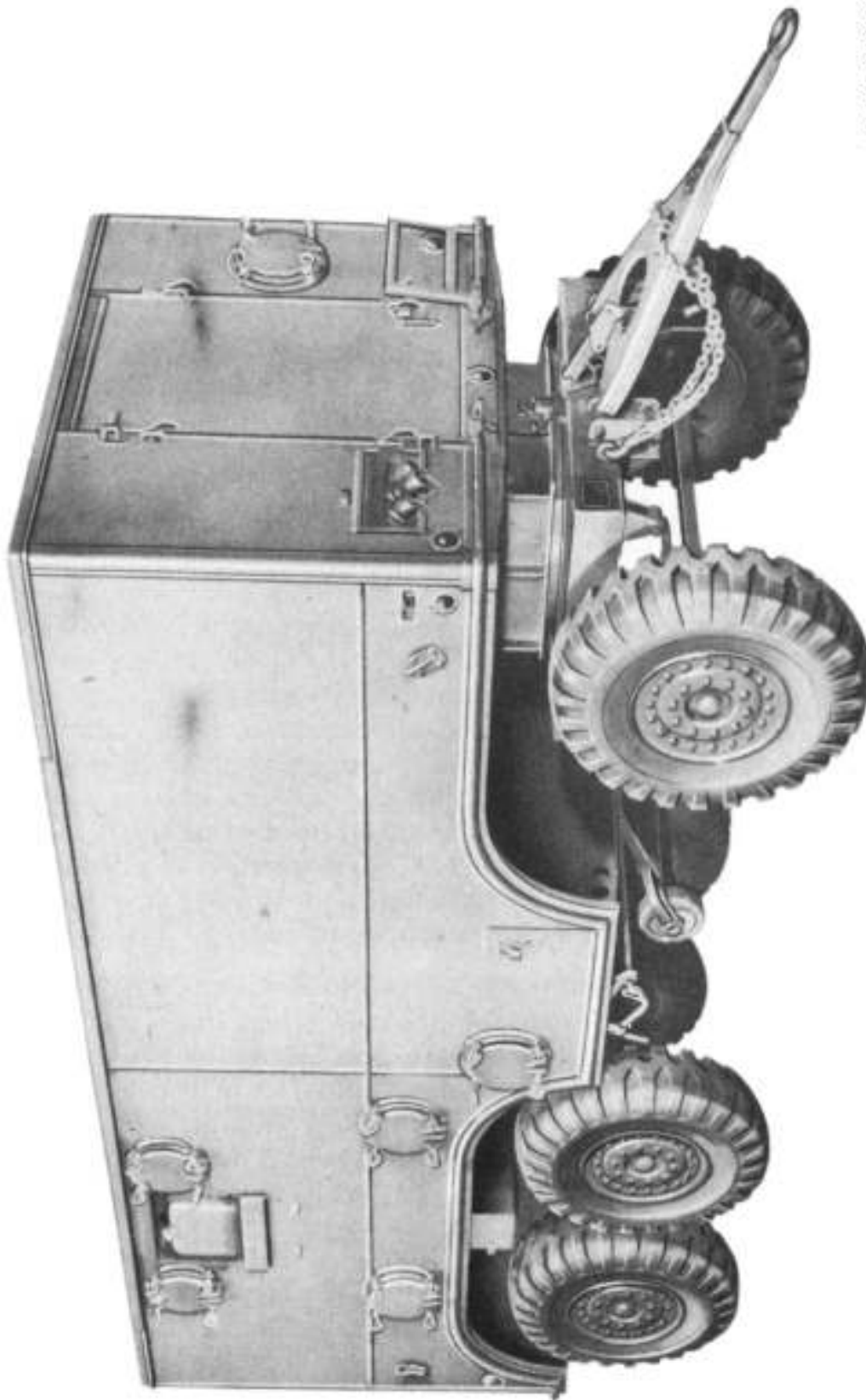
Section II

DESCRIPTION AND DATA**3. DESCRIPTION.**

a. **General** (figs. 1 and 3). The vehicle consists of two units; one semitrailer and one dolly. The two units when coupled together make a full trailer. This combination is known as the M26 when used for the transporting of Gun Computer M8N and M8P and as the V-9/MPG-1 when used for transporting of radio equipment.

b. **Semitrailer** (figs. 2 and 4). The semitrailer is of the single-wheel, tandem type. A roll-back type support (landing gear) is provided ahead of the rear underconstruction. The supports hold up the front of semitrailer when dolly is disconnected. The body frame is built integral with the chassis. The body is of the van type. The semi-trailer is provided with one double door at the rear and one single door at the front. The doors and portholes are provided with rubber gaskets which are secured to the door frames for sealing purposes. Screw-type lugs are fastened to the door and porthole frames for locking, thus making the vehicle watertight for amphibious operations. The underconstruction consists of four springs and two axles. The axles are fastened between the springs with a trunnion shaft and hanger assembly. The underconstruction is suspended from each side of vehicle through a series of hangers, tubing, and trunnion stub shafts. Brakes are actuated by air and are of the internal-expanding, two-shoe type. The brakes are controlled by a foot or hand control on the towing vehicle. The semitrailer is towed by a tractor truck equipped with a fifth wheel and can be converted into a full trailer by attaching dolly to the semitrailer.

c. **Dolly** (fig. 5). The dolly is used to convert the semitrailer into a full trailer. The dolly is equipped with a box, roller, and bolster assembly for attaching to the semitrailer. The dolly box assembly is attached to the dolly frame. It is mounted on a roller assembly which permits ease of turning when the dolly is bolted to the semitrailer. The box assembly acts as a fifth wheel. The box assembly is provided with four dummy holes. The mounting bolts are installed in the dummy holes to prevent the mounting bolts from becoming lost when they are not in use. A drawbar is hinged from the front crossmember and can be adjusted to two heights; 31 inches and 39 inches. An eye is riveted to front of drawbar. The eye is locked into the pintle hook of the towing vehicle, and all pulling is done from the drawbar. The dolly has two wheels, single axle, and single tires. The springs are of the semielliptic type, and are mounted at the front in a stationary bracket. The rear ends are of the slip-end type.



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Figure 1—M26 Semitrailer With Dolly