

# TM 9-894

**WAR DEPARTMENT TECHNICAL MANUAL**

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## 11-TON PAYLOAD, 15-TON GROSS, 2-WHEEL (2dt), VAN SEMITRAILER

OMAHA STANDARD BODY CORP. MODEL F16)



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*TM 9-894*

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**11-TON PAYLOAD,  
15-TON GROSS, 2-WHEEL  
(2dt), VAN SEMITRAILER  
(OMAHA STANDARD BODY CORP. MODEL F16)**



**WAR DEPARTMENT**  
Washington 25, D. C., 31 May 1944

TM 9-894, 11-ton Payload, 15-ton Gross, 2-wheel (2dt), Van Semi-trailer (Omaha Standard Body Corp. Model F16), is published for the information and guidance of all concerned.

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BY ORDER OF THE SECRETARY OF WAR:

**G. C. MARSHALL,**  
*Chief of Staff.*

**OFFICIAL:**

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*Major General,*  
*The Adjutant General.*

**DISTRIBUTION:** As prescribed in par. 9.a., FM 21-6; X.

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

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### **11-TON PAYLOAD, 15-TON GROSS, 2-WHEEL (2dt), VAN SEMITRAILER (OMAHA STANDARD BODY CORP. MODEL F16)**

#### **PART ONE**

#### **GENERAL**

##### **Section I**

### **INTRODUCTION**

#### **1. SCOPE.**

a. These instructions are published for the information and guidance of the personnel to whom this equipment is assigned. This manual\* contains information pertaining to the operation and maintenance of the 11-ton Payload, 15-ton Gross, 2-wheel (2dt), Van Semitrailer (Omaha Standard Body Corp. Model F16), as well as descriptions of the major units and their functions in relation to the other components of this equipment.

b. This manual is arranged in four parts.

(1) Part One, General, contains introduction, description, and data.

(2) Part Two, Operating Instructions, contains instructions for the operation of the vehicle.

(3) Part Three, Organizational Maintenance Instructions, contains information needed for the performance of the scheduled lubrication, preventive maintenance services, and instructions for maintenance operations which are the responsibility of the using organizations (first and second echelons).

(4) Part Four, Ordnance Maintenance Instructions, contains information for the guidance of the third and fourth echelon of maintenance.

c. Instructions for shipment and temporary storage, and a list of references which include standard nomenclature lists, technical manuals, and other ordnance publications applicable to the vehicle, are contained in the appendix.

#### **2. RECORDS.**

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

(1) 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.

## INTRODUCTION

(2) **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.

(3) **W.D., A.G.O. FORM NO. 478, MWO AND MAJOR UNIT ASSEMBLY REPLACEMENT RECORD.** This form 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.

(4) **W.D., A.G.O. FORM NO. 6, DUTY ROSTER.** This form, slightly modified, will be used for scheduling and maintaining a record of vehicle maintenance operations. It may be used for lubrication records.

(5) **W.D., 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.

(6) **W.D., O.O. FORM NO. 7353, 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.

(7) **W.D., A.G.O. FORM NO. 468, UNSATISFACTORY EQUIPMENT RECORD.** 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 of 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 operational or performance records.

(8) **W.D., O.O. FORM NO. 7370, EXCHANGE PART OR UNIT IDENTIFICATION TAG.** This tag, properly executed, may be used when exchanging unserviceable items for like serviceable assemblies, sub-assemblies, parts, vehicles, and tools.

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**11-TON PAYLOAD, 15-TON GROSS, 2-WHEEL (2dt), VAN SEMITRAILER (OMAHA STANDARD BODY CORP. MODEL F16)****Section II****DESCRIPTION AND DATA****3. DESCRIPTION.**

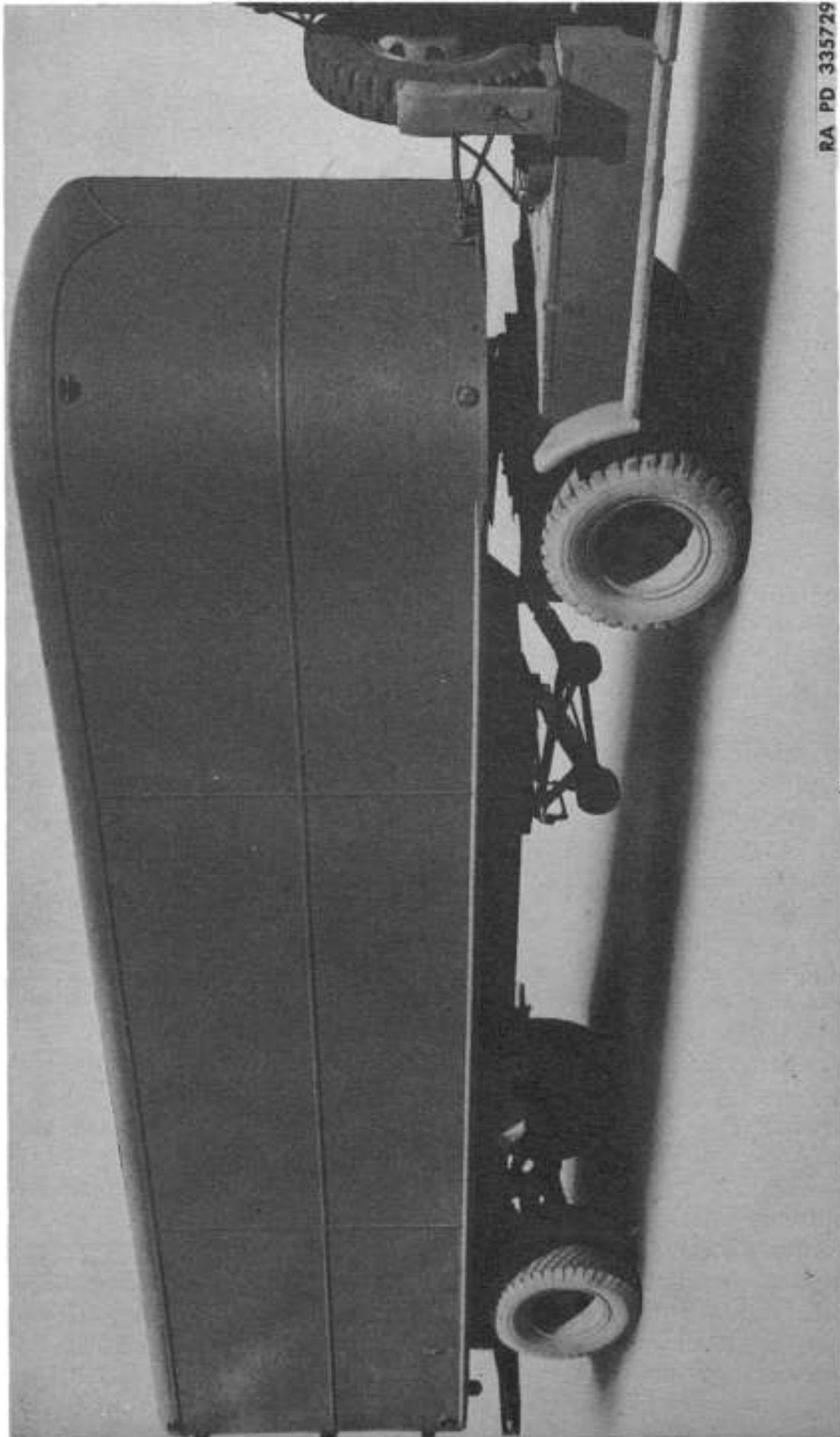
a. **General.** This semitrailer, having a van-type body, is designed to transport cargo (figs. 1 and 2). The semitrailer can be operated from any towing vehicle equipped with a conventional semi-automatic fifth wheel. This vehicle does not incorporate a hand brake, but provides chock blocks for use as a safety measure when the vehicle is uncoupled from the towing vehicle. The serial and model numbers are on a plate which is secured immediately to the rear of the frame drop on the right, or curb, side. A spare wheel and tire carrier is attached beneath the right-hand frame member. A retractable landing gear is attached to the frame at the point of the frame drop, or offset, and is operated by a worm screw and hand crank located on the right side of the frame. The body is constructed of wood and metal, permanently mounted on the frame. The frame is carried on a one-piece forged axle and slip-end, semielliptical, springs. The axle is held in alinement by means of adjustable radius arms equipped with rubber bushings and eccentric adjusting pins.

**4. DATA.****a. Specifications.**

Length, over-all .....	336 in.
Length, inside van, front center-to-rear .....	331 in.
Length, inside, straight wall .....	307 in.
Width, over-all .....	95½ in.
Width, inside van .....	88 in.
Height, over-all (loaded) .....	130¼ in.
Height, over-all (empty) .....	133½ in.
Height, inside van (roof center-to-floor) .....	76 in.
Height, inside van (side wall) .....	74¼ in.
Height at kingpin (empty) .....	48⅝ in.
Wheel size .....	20 in.
Rim width .....	8 in.
<b>Tires:</b>	
Size .....	10.00x20 in.
Inflation pressure .....	70 lb
Number of plies .....	12
Type of tread .....	Highway
Tread (center-to-center) .....	67 in.
Weight of vehicle (equipped) .....	8,000 lb
Maximum gross weight .....	30,000 lb
Ground clearance under raised landing gear .....	14½ in.



**DESCRIPTION AND DATA**

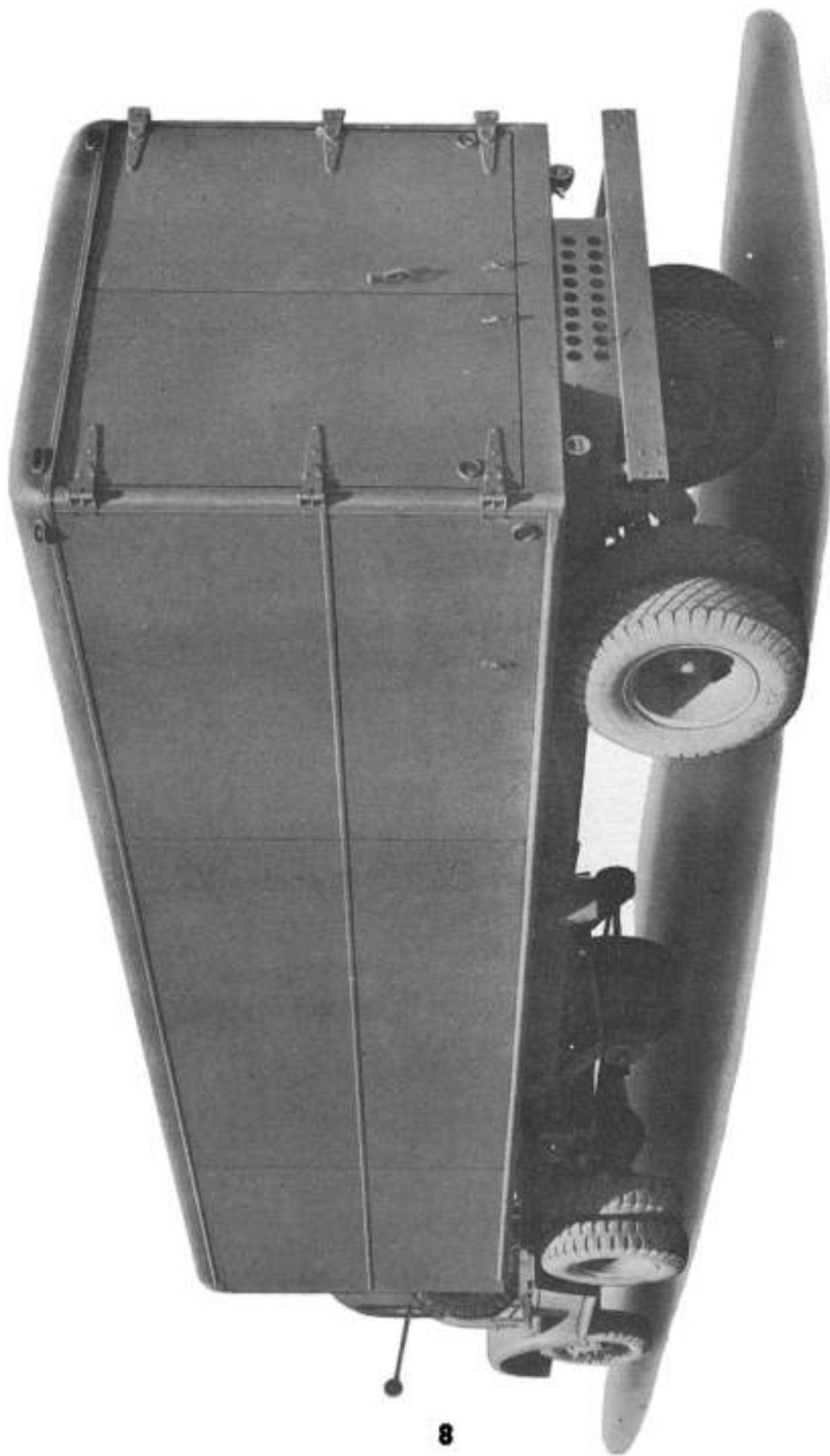


**Figure 1—11-ton Payload, 15-ton Gross, 2-wheel (2dt), Van Semitrailer—Right Front**

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**11-TON PAYLOAD, 15-TON GROSS, 2-WHEEL (2dt), VAN SEMITRAILER (OMAHA STANDARD BODY CORP. MODEL F16)**



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**Figure 2—11-ton Payload, 15-ton Gross, 2-wheel (2dt), Van Semitrailer—Left Rear**