

# TM 9-767

WAR DEPARTMENT TECHNICAL MANUAL

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40-TON  
TANK TRANSPORTER  
TRUCK-TRAILER M25

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*WAR DEPARTMENT*

*FEBRUARY 1944*



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TANK TRANSPORTER  
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**WAR DEPARTMENT**  
**Washington 25, D. C., 23 February 1944**

TM 9-767, 40-Ton Tank Transporter Truck-trailer M25, 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:

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

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

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# **PART I—VEHICLE OPERATING INSTRUCTIONS**

## **Section I**

### **INTRODUCTION**

|             |                  |
|-------------|------------------|
|             | <b>Paragraph</b> |
| Scope ..... | <b>1</b>         |

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

**a.** This technical manual is published for the information and guidance of the using arm personnel charged with the operation and maintenance of this materiel.

**b.** In addition to a description of the 40-ton, Tank Transporter Truck-trailer M25, this manual contains technical information required for the identification, use, and care of materiel. The manual is divided into four parts. Part One, section I through section VIII, contains vehicle operating instructions. Part Two, section IX through section XXXIII, contains vehicle maintenance instructions for using arm personnel charged with the responsibility of doing tractor maintenance work within their jurisdiction. Part Three, section XXXIV through section XL, contains semitrailer maintenance instructions for using arm personnel. Part Four, section XLI, contains instructions for shipment, and temporary storage.

**c.** In all cases where the nature of the repair, modifications, or adjustment is beyond the scope or facilities of the unit, the responsible ordnance service should be informed so that trained personnel with suitable tools and equipment may be provided, or proper instructions issued.

#### **d. MWO and Major Unit Assembly Replacement Record.**

(1) **DESCRIPTION.** Every vehicle is supplied with a copy of A.G.O. Form No. 478, which provides a means of keeping a record of each MWO (FSMWO) completed or major unit assembly replaced. This form includes spaces for the vehicle name and U. S. A. Registration Number, instructions for use, and information pertinent to the work accomplished. It is very important that the form be used as directed and that it remain with the vehicle until the vehicle is removed from service.

(2) **INSTRUCTIONS FOR USE.** Personnel performing modifications or major unit assembly replacements must record clearly on the form a description of the work completed and must initial the form in the columns provided. When each modification is completed, record the date, hours and/or mileage, and MWO number. When major unit assemblies, such as engines, transmissions, transfer cases, are replaced, record the date, hours and/or mileage and nomenclature of the unit assembly. Minor repairs and minor parts and accessory replacements need not be recorded.

(3) **EARLY MODIFICATIONS.** Upon receipt by a third or fourth echelon repair facility of a vehicle for modification or repair, maintenance personnel will record the MWO numbers of modifications applied prior to the date of the A.G.O. Form No. 478.

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**40-TON TANK TRANSPORTER TRUCK-TRAILER M25**

**Section II**

**DESCRIPTION AND TABULATED DATA**

|                   | <b>Paragraph</b> |
|-------------------|------------------|
| Description ..... | 2                |
| Data .....        | 3                |

**2. DESCRIPTION.**

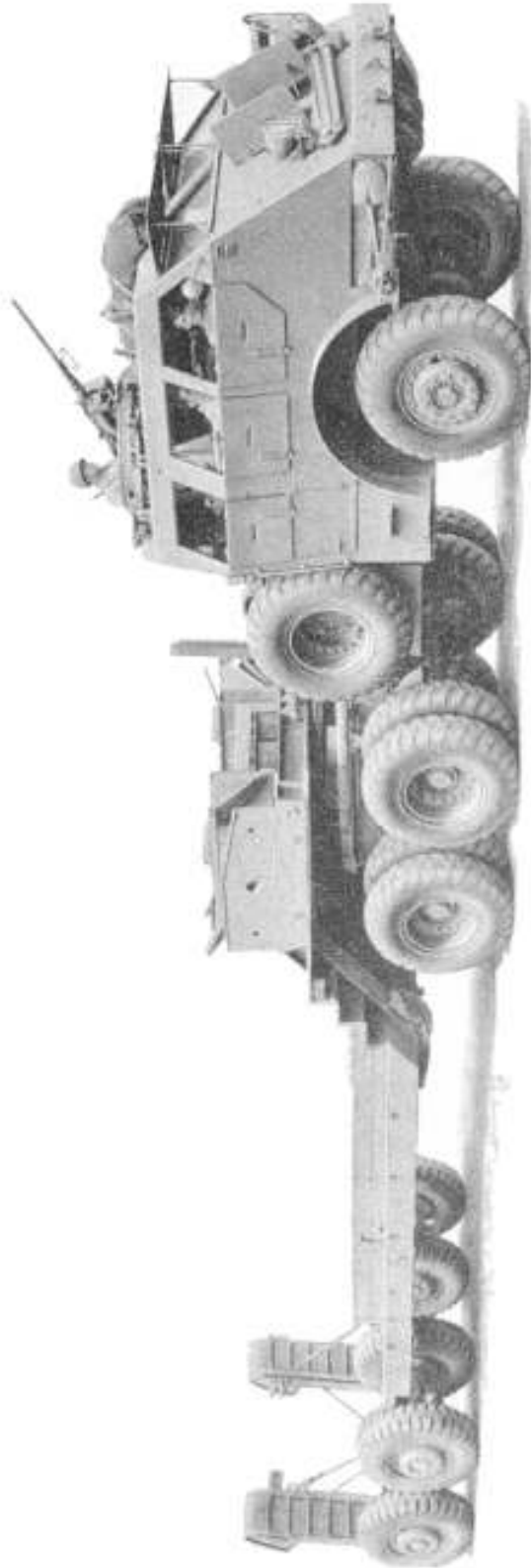
a. The 40-ton, Tank Transporter Truck-trailer M25 is designed for use in recovering a piece of damaged materiel and transporting it to a place where necessary repairs can be accomplished. The M25 unit consists of the tractor truck (M26) and semitrailer (M15), the semitrailer being coupled to the tractor by means of a fifth wheel on the tractor, which automatically locks the trailer to the tractor. Air brakes on the trailer wheels and lighting equipment on the trailer are connected to the tractor air and lighting systems by means of air hose and a jumper cable (carried on the trailer). The trailer air brakes and lights are controlled by the driver of the tractor. The trailer air brakes are automatically set in case the trailer is accidentally, or purposely, disconnected from the tractor.

b. The tractor truck M26 is a self-propelled motor vehicle, powered by a 6-cylinder internal-combustion gasoline engine. There are two front and eight rear dual wheels equipped with desert, or combat type, pneumatic tires. The rear wheels are driven by roller type chains operating on sprockets fastened to the wheel hubs. The power to drive the rear wheels is obtained from the engine, through the clutch, main and auxiliary transmissions, rear differential and jackshafts to the drive sprockets which are bolted to the jackshaft hubs. Roller chains on the jackshaft hub sprockets and on the wheel hub sprockets, drive the wheels. The tractor can be used as a recovery vehicle without the semitrailer, since it is equipped with a front mounting winch, a rear tandem winch, and a vertical lifting device. The cab is armor plated and has hinged armor plate covers for the windshield, radiator, doors, and cab windows. All of these armor plate covers are operated from inside the cab and have peep ports. A pintle hook is bolted to the rear end of the frame. Towing shackles are fastened to the front and rear of the frame. A drawbar and whiffletree are carried on the tractor, for recovery operations. Oxygen and acetylene tanks with equipment for welding or cuttings; vise, Pioneer, and maintenance tools are also carried on the tractor.

c. The semitrailer (M15) is designed to be pulled by the tractor truck (M26) and consists of a low drop frame having a low bed-type platform. Eight single wheels equipped with pneumatic tires are used to carry the semitrailer, which has a maximum pay load of 40 tons to be carried at a maximum speed of 26 miles per hour. The use of walking beams operating on trunnion shafts, allows any one wheel to pass over a 9-inch obstacle while all other wheels remain



**DESCRIPTION AND TABULATED DATA**

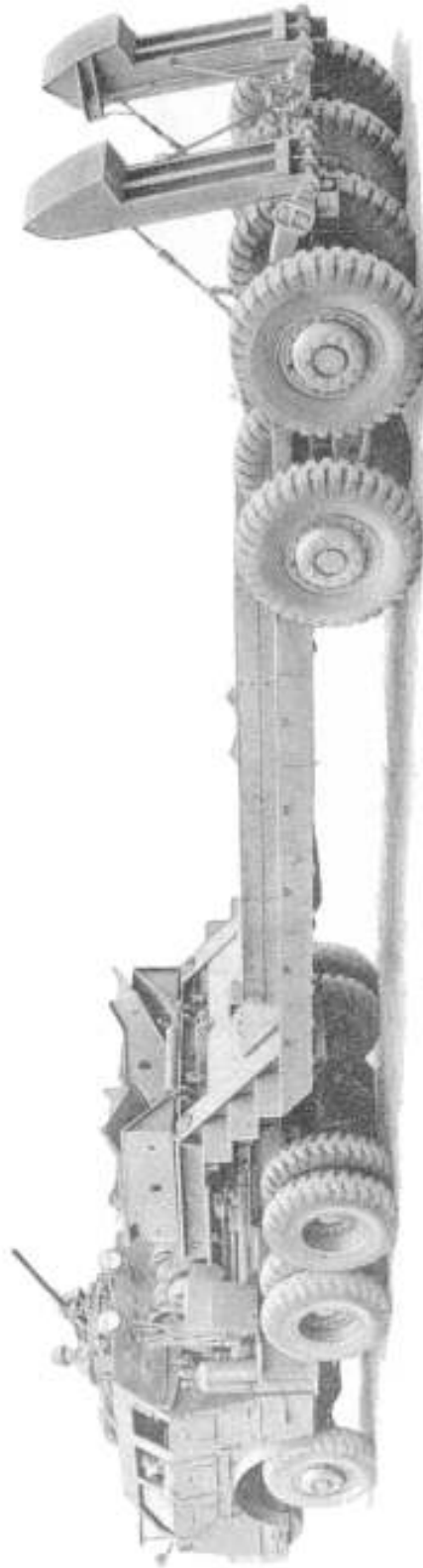


RA PD 48208

**Figure 1—Right Front Three-quarter View of 40-ton Tank Transporter Truck-Trailer M25**

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**RA PD 48207**

**Figure 2—Left Rear Three-quarter View of 40-ton Tank Transporter Truck-Trailer M25**