

TM 9-1767A

WAR DEPARTMENT TECHNICAL MANUAL

ORDNANCE MAINTENANCE

Engine and Engine Accessories for
Tractor Truck M26, Component
of 40-Ton Tank Transporter
Trailer Truck M25

WAR DEPARTMENT

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18 DECEMBER 1943

FOR ORDNANCE PERSONNEL ONLY

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Engine and Engine Accessories for
Tractor Truck M26, Component
of 40-Ton Tank Transporter
Trailer Truck M25



WAR DEPARTMENT

Washington 25, D. C., 18 December 1943

TM 9-1767A—Ordnance Maintenance, Engine and Engine Accessories for Tractor Truck M26, Component of 40-Ton Tank Transporter Trailer Truck M25, is published for the information and guidance of all concerned.

[A.G. 300.7 (10 Aug. 43)
O.O. M. 461/Rar. Ars. (12-20-43)]

BY ORDER OF THE SECRETARY OF WAR:

G. C. MARSHALL,
Chief of Staff.

OFFICIAL:

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

DISTRIBUTION: R 9(4); Bn 9(2); C 9(8).

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

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CHAPTER 1

INTRODUCTION

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1. SCOPE.

a. Instructions contained in this manual are for the information and guidance of personnel charged with the maintenance and repair of the engine and engine accessories for Tractor Truck M26, component of 40-ton Tank Transporter Trailer Truck M25. These instructions are supplementary to field and technical manuals prepared for the using arms. This manual does not contain information which is intended primarily for the using arms, since such information is available to ordnance maintenance personnel in TM 9-767.

b. This manual contains a description of, and procedure for, the removal, disassembly, inspection, repair, assembly, and installation of the engine and the disassembly, inspection, repair and assembly of engine accessories (except those listed in step d below) and the engine clutch. The cooling, intake and exhaust, and lubrication systems of the engine are included.

c. TM 9-767 contains procedures for the removal, and installation, of engine, engine accessories, and clutch.

d. Complete maintenance information on the electrical equipment, carburetor, fuel pump, and air compressor is contained in the following manuals:

- (1) TM 9-1825B Electrical Equipment.
- (2) TM 9-1826C Carburetors.
- (3) TM 9-1827A Power Brake Systems.
- (4) TM 9-1828A Fuel Pumps.

e. TM 9-1767B contains maintenance information on the power train, which comprises transmission, auxiliary transmission, transfer case, front axle declutch, top and side power take-off, propeller shafts and universal joints, front axle, rear axle tandem unit, wheels, hubs, and tires.

f. TM 9-1767C contains maintenance information on the cab and frame, vertical lifting device, winches, cables, winch drive shafts with universal joints, the vehicle electrical system, and the hydraulic pump for steering control.

2. MAINTENANCE ALLOCATION.

a. **Scope.** The scope of maintenance and repair by the crew and other units of the using arms is determined by the availability of

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suitable tools, availability of necessary parts, capabilities of the mechanics, time available, and the tactical situations. All of these are variable and no exact system of procedure can be prescribed.

b. Allocation of Maintenance. Indicated below are the maintenance duties for which tools and parts have been provided for the using arm and ordnance maintenance personnel. Replacements and repairs which are the responsibility of ordnance maintenance personnel may be performed by using arm personnel when circumstances permit, within the discretion of the commander concerned. Echelons and words as used in this list of maintenance allocations are defined as follows:

<p>FIRST AND SECOND ECHELON: Table III AR 850-15</p>	<p>Operating organizations, driver, operator, or crew, companies and detachments, battalions, squadrons, regiments, and separate companies and detachments (first and second echelons, respectively).</p>
<p>THIRD ECHELON: Table III AR 850-15</p>	<p>Technical light and medium maintenance units, including post and port shops.</p>
<p>FOURTH ECHELON: Table III AR 850-15</p>	<p>Technical heavy maintenance and field depot units, including designated post and service command shops.</p>
<p>FIFTH ECHELON: Table III AR 850-15</p>	<p>Technical base units.</p>
<p>SERVICE: Par. 24a (2) and (3) in part AR 850-15</p>	<p>Preventive maintenance, checking and replenishing fuel, oil, grease, water and antifreeze, air, and battery liquid; checking and tightening nuts and bolts; cleaning; and making external adjustment of subassemblies or assemblies and controls.</p>
<p>REPLACE: Par. 24a (5) AR 850-15</p>	<p>To remove an unserviceable part, assembly, or subassembly from a vehicle and replace it with a serviceable one.</p>
<p>REPAIR: Par. 24a (4) in part AR 850-15</p>	<p>To restore to a serviceable condition, such parts, assemblies or subassemblies as can be accomplished without completely disassembling the assembly or subassembly, and where heavy riveting, or precision machining, fitting, balancing, or alining is not required.</p>
<p>REBUILD: Par. 24a (6) AR 850-15</p>	<p>Consists of stripping and completely reconditioning and placing in serviceable condition any vehicle or unserviceable part, subassembly, or</p>

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assembly of the vehicle, including welding, riveting, machining, fitting, alining, balancing, assembling, and testing.

RECLAMATION: AR 850-15
 Par. 24a (7) and in part CIR. 75, dated 3/16/43

Salvage of serviceable or economically reparable units and parts removed from vehicles, and their return to stock. This includes the process which recovers and/or reclaims unusable articles or component parts thereof and places them in a serviceable condition.

NOTES:

- (1) Operations allocated will normally be performed in the echelon indicated by "X".
- (2) Operations allocated to the third echelon as indicated by "E" may be performed by these units in emergencies only.
- (3) Operations allocated to the fourth echelon by "E" are normal fifth echelon operations. They will not be performed by the fourth echelon, unless the unit is expressly authorized to do so by the chief of the service concerned.
- (4) Technical Bulletins of the 2830-series should be consulted for detailed information relative to reclamation procedure.

TRACTOR

ABSORBERS, SHOCK

	Echelons			
	2nd	3rd	4th	5th
Absorber assemblies, shock (w/linkage)—replace .	X			
Absorber assemblies, shock (w/linkage)—repair .		X		
Absorber assemblies, shock (w/linkage)—rebuild .			E	X

AXLE, FRONT

Arm, steering knuckle—replace		X		
*Axle assembly—replace	*	X		
Axle assembly—repair		X		
Axle assembly—rebuild			E	X
Bearings, wheel—service, adjust and/or replace .	X			
Drums, brake—replace	X			
Gears, bevel and pinion—adjust		X		
Hub assemblies—replace	X			
Hub assemblies—repair		X		
Hub assemblies—rebuild			X	
Retainers, wheel grease—replace	X			
Rod assembly, tie—replace	X			
Rod assembly, tie—repair		X		
Seals, trunnion housing oil—replace		X		

*The second echelon is authorized to remove and reinstall items marked by an asterisk. However, when it is necessary to replace an item marked by an asterisk with a new or rebuilt part, subassembly or unit assembly, the assembly marked by an asterisk may be removed from the vehicle by the second echelon *only after authority has been obtained from a higher echelon of maintenance.*

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	Echelons			
	2nd	3rd	4th	5th
Shafts, axle—replace		X		
Wheel alinement, toe-in—adjust	X			
Wheel alinement, camber and caster—check		X		
Wheel alinement, camber and caster—aline			E	X
AXLES AND SUSPENSION, REAR (TANDEM)				
*Axle and jackshaft assembly—replace		X		
Axle and jackshaft assembly—repair		X		
Axle and jackshaft assembly—rebuild			E	X
Carrier assembly, differential—replace and/or repair		X		
Carrier assembly, differential—rebuild			E	X
Chains, drive—replace and/or repair	X			
Chains, drive oiler assembly—replace	X			
Chains, drive oiler assembly—repair		X		
Hub assemblies, jackshaft—replace	X			
Hub assemblies, jackshaft—repair		X		
Hub assemblies, jackshaft—rebuild			X	
Hub and drum assemblies—replace	X			
Retainers, wheel grease—replace	X			
Rod assemblies, radius—adjust	X			
Rod assemblies, radius—replace and/or repair		X		
Rod assemblies, radius—rebuild			X	
Shafts, axle—replace	X			
Springs, coil—replace	X			
Sprockets, jackshaft—replace	X			
Sprockets, jackshaft—repair		X		
BRAKE, PARKING				
Controls and linkage—adjust and/or replace	X			
Controls and linkage—repair		X		
Shoe assemblies—replace	X			
Shoe assemblies—repair (reline)		X		
BRAKES, SERVICE (AIR)				
Adjuster assemblies, slack—adjust and/or replace	X			
Adjuster assemblies, slack—rebuild			X	
Chamber assemblies, air, front brake—replace	X			
Chamber assemblies, air, front brake—repair		X		
Chamber assemblies, air, front brake—rebuild			X	

*The second echelon is authorized to remove and reinstall items marked by an asterisk. However, when it is necessary to replace an item marked by an asterisk with a new or rebuilt part, subassembly or unit assembly, the assembly marked by an asterisk may be removed from the vehicle by the second echelon *only after authority has been obtained from a higher echelon of maintenance.*