

TM 9-768

WAR DEPARTMENT TECHNICAL MANUAL

45-TON TANK TRANSPORTER TRUCK-TRAILER M19

WAR DEPARTMENT • 25 OCTOBER 1944

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This manual supersedes:

- a. WDTB ORD 91, dated 13 May 1944, and WDTB ORD 103, dated 10 June 1944.
 - b. OFSTB 811-1 and 10-1255-1, dated 22 October 1943 insofar as it applies to this manual. Together with TM 9-811, dated 25 January 1944, this manual completely supersedes OFSTB 811-1 and 10-1255-1.
 - c. The following publications insofar as they apply to this manual. These publications remain in force until such time as they are incorporated in other affected manuals or specifically rescinded: OFSTB 800-21, dated 30 November 1943; OFSTB 1700-32, 1800-3, and 10-1000-22, dated 8 July 1943; WDTB ORD 60, dated 13 March 1944; WDTB ORD 74, dated 8 July 1943; WDTB ORD 126, dated 19 July 1944; WDTB ORD 20, dated 24 January 1944.
 - d. The following 10-series Technical Manuals insofar as they apply to this manual: TM 10-1225, dated 25 October 1941; TM 10-1242, dated 15 August 1942; TM 10-1242 (revised), dated 15 February 1944; TM 10-1255, dated 6 July 1942; and TM 10-1322, dated 3 November 1941. The above 10-series manuals remain in effect until they are incorporated in TM 9-1768A, TM 9-1768B, TM 9-1768C, and SNL G-159, at which time they will be completely superseded.
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45-TON
TANK TRANSPORTER
TRUCK-TRAILER
M19



WAR DEPARTMENT

25 OCTOBER 1944

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WAR DEPARTMENT

Washington 25, D. C., 25 October 1944

TM 9-768, 45-ton Tank Transporter Truck-trailer M19, is published for the information and guidance of all concerned.

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Chief of Staff.

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The Adjutant General.

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IBn 9—T/O 9-65, 9-75, 9-315, 9-325.

IC 9—T/O 9-7, 9-9, 9-37, 9-67, 9-76, 9-127,
9-187, 9-197, 9-316, 9-318, 9-327, 9-328,
9-377, 9-500.

17—T/O 17-2, 17-60-1.

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

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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. They contain information on the operation and maintenance of the 45-ton Tank Transporter Truck-trailer M19, as well as descriptions of the major units and their functions in relation to the other components of this vehicle.

b. This manual has the following arrangement:

(1) Part One, General, contains description and data. It lists the tools, spare parts, and equipment carried on the vehicle. It also lists organization special tools for the vehicle.

(2) Part Two, Operating Instructions, contains instructions for the operation of the vehicle with description and location of the controls and instruments.

(3) Part Three, Maintenance Instructions, contains information needed for the performance of the scheduled lubrication and preventive maintenance services, and instructions for maintenance operations which are the responsibility of the using organizations (first and second echelons). Stock numbers in this part were obtained from the Organizational Spare Parts and Equipment List of SNL G-159.

*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.

General

(4) The appendix contains instructions for shipment and limited storage, and a list of references which includes standard nomenclature lists, 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 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.

(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 (engine, transmission, transfer case, and tracks) replacement to record clearly the description of work completed, data, 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 REPORT.** This form will be used for reporting manufacturing, design, or operational defects in materiel with a view to improving and cor-

Description and Data

recting 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.

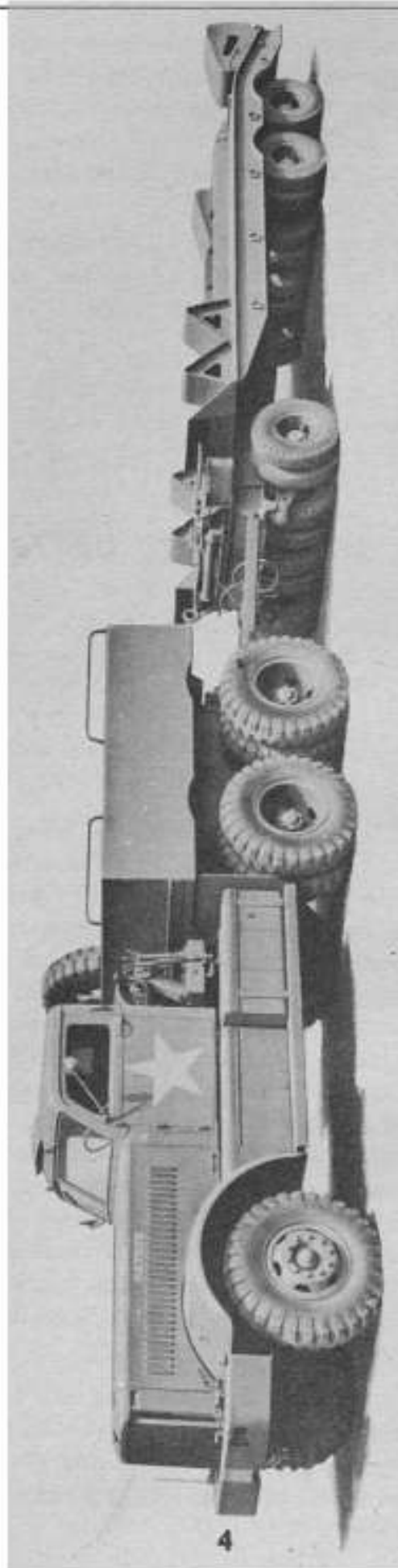
Section II**DESCRIPTION AND DATA****3. DESCRIPTION (figs. 1, 2, and 3).**

a. **General.** The 45-ton Tank Transporter Truck-trailer M19 is a combination of two units, the 12-ton, 6 x 4 truck M20 and the 45-ton, 12-wheel trailer M9. The unit is designed to recover and transport damaged tanks and materiel weighing up to 90,000 pounds.

b. **Truck.** The 12-ton, 6 x 4 truck M20 is a tandem-rear-axle, or 6-wheel, truck equipped with a rear pintle for towing the M9 trailer. The cab is a closed type on some models and open type on others. A ballast body and a winch are installed on the chassis behind the cab. The winch is operated through a power take-off installed on the auxiliary transmission and is controlled from outside the cab by means of an air-operated clutch control and remote throttle control. Recovery and loading is accomplished by means of the winch. Additional wheel traction can be obtained by filling the ballast body with any available materials such as gravel or sand. The spare wheel and tire are mounted in the forward end of the ballast body, and two stowage boxes are located inside the body at the rear end. A fuel tank is installed on each side of the truck immediately behind the cab. The storage batteries and fuel gate valves are carried in a compartment on each side under the cab doors. The truck is powered by a Diesel engine, which is equipped with a fuel oil burning heater to facilitate cold weather starting.

c. **Trailer.** The 45-ton, 12-wheel trailer M9 has a tandem axle at the rear which carries 8 dual wheels and a front axle which carries 4 dual wheels. A drawbar is provided for towing the trailer. The rear end of the trailer slopes down and two hinged ramps are provided to

General



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Figure 1—45-ton Tank Transporter Truck-trailer M19—Left Front View