

TM 9-2800

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

MILITARY VEHICLES

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This Manual Supersedes TM 9-2800, 1 September 1943, and TB 9-2800-1, 26 February 1945.

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DEPARTMENT OF THE ARMY

Washington 25, D. C., 27 October 1947

TM 9-2800, Military Vehicles, is published for the information and guidance of all concerned.

The information in this manual is correct as of 15 August 1946.

[AG 300.7 (30 Aug 46)]

BY ORDER OF THE SECRETARY OF THE ARMY

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For explanation of distribution formula, see TM 38-405.

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RESTRICTED

This manual supersedes TM 9-2800, 1 September 1943, and TB 9-2800-1, 26 February 1945.

Section I. Introduction

1. SCOPE

a. This manual is published for the information and guidance of all concerned. It contains illustrations of and pertinent data for military vehicles used or maintained by the Army. The data includes classification, purpose, characteristics, and performance of each vehicle. Data and illustrations have been obtained from the most reliable sources available at time of publication. These sources include the manufacturers of the vehicle and the services which use them. For more detailed information, refer to the technical manuals listed for each vehicle.

b. Each section of this manual contains one class of vehicles. Within each section the vehicles are arranged according to weight. When two or more different vehicles have identical weights, further arrangement is made according to other distinctive characteristics, such as size of armament or number of wheels.

c. Material which has been declared obsolete since publication of the superseded edition, 1 September 1943, has not been included in the revision.

d. The appendix contains a list of references to other useful publications, and an alphabetical index of all vehicles contained in the manual.

2. EXPLANATION OF TERMINOLOGY

a. *Technical Data.* (1) *Wheels.* Where such data as "6 x 4" and "4 x 4" appears in vehicular nomenclature, the first figure indicates total number of wheels, and the second figure indicates number of driving wheels. Dual wheels are considered as one wheel.

(2) *Net Weight.* Weight of fully equipped vehicle in operating condition with fuel, lubricants, and water, but without crew or payload.

Note. It is emphasized that weights given in this manual are for tactical use only, and are not intended as official shipping weights for use in shipment by commercial carriers, due to variations between vehicles, variations resulting from changes in stowage, etc. Official vehicular shipping weights are contained in SB-OSSC-G.

(3) *Payload.* Weight of cargo or passengers, including crew, which may be safely imposed on vehicle.

(4) *Gross Weight or Fighting Weight.* Weight of vehicle fully equipped and serviced for operation, including crew, plus maximum allowable payload of cargo or passengers.

(5) *Shipping Dimensions.* Minimum dimensions to which a completely assembled vehicle may be reduced by lowering cab top or windshield, removing body bows, gun mounts, etc.

(6) *Ground Clearance.* Minimum clearance under lowest point of chassis.

(7) *Brake Dimensions.* Brake band width.

(8) *Maximum Computed Gradability.* The steepest slope, measured in percent, a vehicle will traverse with transmission in lowest forward gear, and transfer case or auxiliary transmission in low range. Percent of slope is defined as the ratio between the vertical rise and the horizontal distance traveled. Examples of slopes measured in terms of degree of angle and percent of slope follow:

<i>Degree of angle</i>	<i>Percent of slope</i>
0.....	0
10.....	17.633
30.....	57.735
45.....	100

(9) *Turning Radius.* Radius of minimum circle within which vehicle can negotiate a complete turn.

(10) *Fording Depth.* Depth of water through which vehicle may be successfully operated at slowest speed.

(11) *Cruising Range.* Average distance vehicle will travel on one full tank of fuel at rated fuel consumption.

b. Classification. Vehicles are classified from the standpoint of suitability for use as follows:

(1) *Standard.* Standard vehicles are the most advanced and satisfactory that have been adopted, and are those which are preferred for procurement.

(2) *Substitute Standard.* Substitute standard vehicles are those which do not have as satisfactory military characteristics as standard vehicles, but are usable substitutes for standard vehicles and when necessary may be procured to supplement the supply of standard vehicles.

(3) *Limited Standard.* Limited standard vehicles are those which do not have as satisfactory military characteristics as stand-

ard vehicles, but are usable substitutes for standard vehicles, and are either in use or available for issue to meet supply demands. Complete vehicles will not be procured, but component parts, even though they may be limited procurement articles, may be procured if necessary to maintain these vehicles in serviceable condition throughout a reasonable life expectancy.

(4) *Limited Procurement.* Limited procurement vehicles are those which have passed service tests favorably but are not ready for classification as an adopted type before they have been subjected to more extended service tests. The approval as to limited procurement type signifies that the item is probably suited for service use, but requires refinement in design or further use by troops to establish complete suitability.

(5) *Unclassified.* Unclassified vehicles are those for which classification was not obtainable from the services using the vehicles.

