

TM 9-2800

RESTRICTED

WAR DEPARTMENT

TECHNICAL MANUAL

**STANDARD MILITARY
MOTOR VEHICLES**

MARCH 6, 1943

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No. 9-2800 }

WAR DEPARTMENT
Washington, March 6, 1943

STANDARD MILITARY MOTOR VEHICLES

**Prepared under the direction of the
 Chief of Ordnance**

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STANDARD MILITARY MOTOR VEHICLES

1. PURPOSE AND SCOPE. — a. This manual is published to provide identification, illustrations, and logistical data on Standard Military Motor Vehicles for personnel of the using arms and services.

b. Because of data variations within models of vehicles, and variations in production, the information contained in this manual is typical rather than specific. It cannot properly be used for technical purposes.

Figures herein have been compiled from various reliable sources and can be accepted as sufficiently accurate for logistical needs. Data to be used for actual maintenance purposes should be obtained directly from the technical manual issued for the vehicle concerned.

c. This is a preliminary edition. A revision, which will be larger in scope and include more data of value to the using services, is contemplated in the future. All interested personnel are requested to review this publication and to report any errors or omissions, and also any suggestions for the improvement of this manual, either in scope or in style, direct to the Military Publications Section, Office of the Chief of Ordnance, Pentagon Building, Washington, D. C.

2. CONTENTS AND ARRANGEMENT OF MANUAL. — The vehicles contained in this manual are those most commonly used by the various arms and services. Vehicle types are designated in the manner prescribed by Army Regulations 850-15 and are arranged accordingly. The group designations are as follows:

Section 1—Ambulances. Vehicles designed or intended for transport of sick and wounded personnel.

Section 2—Amphibians (Omitted from this preliminary edition). Vehicles designed primarily for amphibious operations.

Section 3—Armored Cars. Armored wheeled vehicles designed primarily as personnel carriers or for reconnaissance.

Section 4—Cargo or Personnel Carriers. Track-laying, half-track, or convertible vehicles designed for carrier use in combat.

Section 5—Command Cars. Vehicles designed primarily for use of commanders and staff of units in the field.

Section 6—Motorcycles. Vehicles designed or intended for messenger use or traffic control purposes.

Section 7—Passenger Cars. Vehicles designed for passenger use.

Section 8—Scout Cars. Armored wheeled vehicles designed primarily as personnel carriers or for reconnaissance.

Section 9—Self-propelled Artillery. Motor propelled vehicles, wheeled or track, designed primarily as carriages for artillery.

Section 10—Semitrailers. Wheeled trailers resting on and attached

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to the chassis of the truck tractor by means of a fifth wheel arrangement. They may be detached at will from the latter.

Section 11—Tanks. Armored track-laying vehicles designed for combat.

Section 12—Tractors. Vehicles designed primarily for towing.

Section 13—Trailers. Vehicles without motive power unit but provided with suitable drawbars or tongues for attachment to trucks or other vehicles equipped with pintles.

Section 14—Trucks. Motor propelled vehicles designed primarily for carrying cargo or equipment. They may be used for carrying personnel or for towing purposes.

Section 15—Truck Tractors. Motor propelled vehicles equipped with a fifth wheel arrangement, designed for towing semitrailers.

Section 16—Miscellaneous Vehicles. Vehicles not definitely included in any preceding category.

Each vehicle group designation constitutes one section of the manual and is assigned a number as above. Thus, all ambulances will be found in Section 1, amphibians in Section 2, armored cars in Section 3, with other sections following in alphabetical sequence.

Two facing pages are devoted to each vehicle. Vehicles within each section are arranged in sequence, beginning with the lightest weight or lowest model number. Vehicles within any one weight group appear in alphabetical order.

3. CLASSIFICATION.—The vehicles in this manual are classified in the following manner, in accordance with Army Regulations 850-25, Par. 13:

a. **Standard Vehicles** are the most advanced and satisfactory that have been adopted by the Secretary of War and are those which are preferred for procurement to meet supply demands.

b. **Substitute Standard Vehicles** are those which do not have as satisfactory military characteristics as standard vehicles but are usable substitutes for standard vehicles. They are not normally in use or available for issue to meet supply demands but would, when necessary, be procured to supplement the supply of standard vehicles.

c. **Limited Standard Vehicles** are those which do not have as satisfactory military characteristics as standard vehicles, but are usable substitutes for standard vehicles, and are either in use or available for issue to meet supply demands. Complete major units will not be reproduced but component parts and complementary articles, even though they may be limited standard articles, may be procured if necessary to maintain the complete major units in serviceable condition.

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STANDARD MILITARY MOTOR VEHICLES

AMBULANCE, ½-TON, 4 x 4

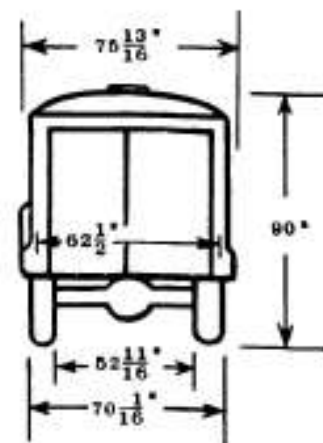
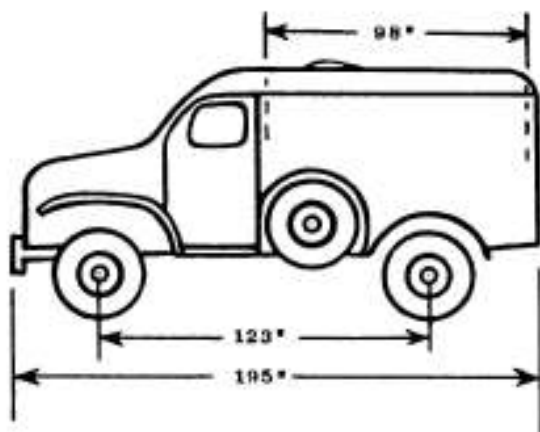
Manufacturer: DODGE Model: WC-9, WC-18, WC-27 Year: 194

Technical Manuals: TM 10-1442, 10-1443 SNL G-505



Classification: Limited Standard.

Purpose: To transport sick and wounded personnel.



SECTION I—AMBULANCES

AMBULANCE, ½-TON, 4 x 4

ARMAMENT	
GUN MOUNTS	
CREW	2
WHEELBASE (inches)	123
OVERALL DIMENSIONS (inches)	
Length 195	Width 75 ¹³ / ₁₆
Height 90	
Reducible to	
INSIDE BODY DIMENSIONS (inches)	
Length 98	Width 62 ¹ / ₂
Panel Height	
TRACK WIDTH (inches)	
Width between inside edges of rear tires or track (inches)	52 ¹¹ / ₁₆
Width between outside edges of rear tires or track (inches)	70 ¹ / ₁₆
Distance from front axle center to first rear bogie axle center (inches)	
Distance between rear bogie axle centers (inches)	
SHIPPING DIMENSIONS (not boxed)	
Square feet	102.7
Cubic feet	
with top up	770.3
with top down	
ROAD WEIGHT, less personnel (lbs.)	
Net 5,340	Payload 1,000
Gross	6,340
GROUND PRESSURE	
(lbs. per sq. in.)	
GROUND CLEARANCE,	
Min. (inches)	9
NORMAL FORDABILITY (inches)	32
MAX. GRADABILITY (per cent)	54
ANGLE OF APPROACH	
(degrees)	62 ¹ / ₂
ANGLE OF DEPARTURE (degrees)	30
TRENCH-CROSSING ABILITY	
(feet)	
TURNING RADIUS (feet)	
Left 27	Right 27
TOP GOVERNED SPEED (r.p.m.)	3,100
SPEED AT MAX. GOVERNED R.P.M.	
(m.p.h.)	55
MILES PER GALLON	
(hard-surface roads)	
With Towed Load	10
Without Towed Load	12
CRUISING RANGE (miles)	250
CAPACITIES	
Fuel Tank (gals.)	25
Cooling System (qts.)	17
Crankcase (qts.)	5
Oil Reservoir (qts.)	
Transmission (pts.)	6
Tank Differential (pts.)	
Final Drive (pts. ea.)	
Transfer Case (pts.)	4
Front Axle (pts.)	4 ¹ / ₂
Rear Axle (pts. ea.)	4 ¹ / ₂
Steering Gear (pts.)	¹ / ₂
Brake System (pts.)	As required
ENGINE	
Make	Dodge
Model	T-207, 211, 215
Type	In-Line, 6 cyl., 4 cycle
Displacement (cu. in.)	217.7
Fuel	Gasoline, 70 octane
COOLING SYSTEM	
Type	Liquid
No. of Draining Points	2
ELECTRICAL SYSTEM	
Ignition (type)	Battery
Batteries (No.) .. 1	(Volts ea.) .. 6
BRAKES (Service)	
Type	Hydraulic
TIRES	
Size 7.50-16	Ply
Recommended Pressure (lbs.)	40
No. of Spares	1
WINCH CAPACITY (lbs.)	
ADDITIONAL DATA	
WC-18 after engine No. 42,001 has 230.2 cu. in. displacement. Maximum gradability with this engine is 58.6%.	

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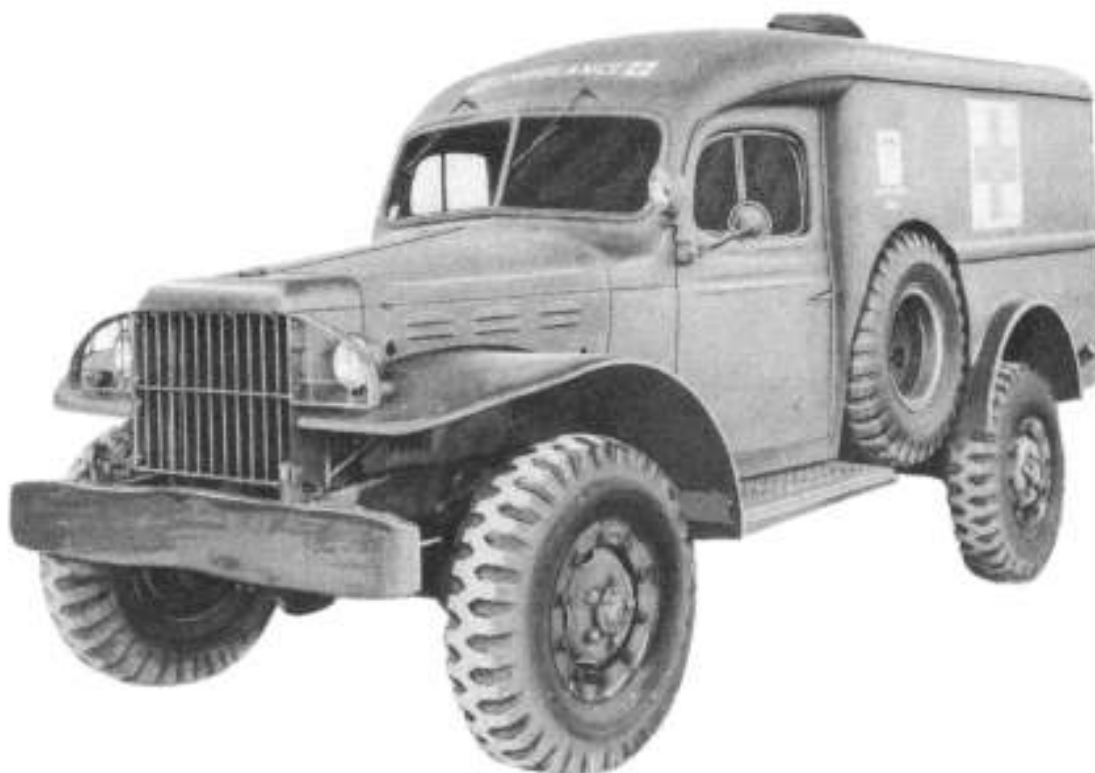
AMBULANCE, 3/4-TON, 4 x 4

Manufacturer: DODGE Model: WC-54

Year: 1942-3

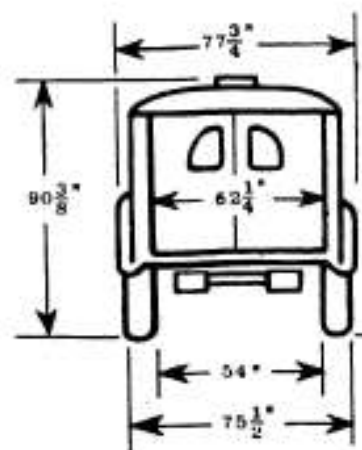
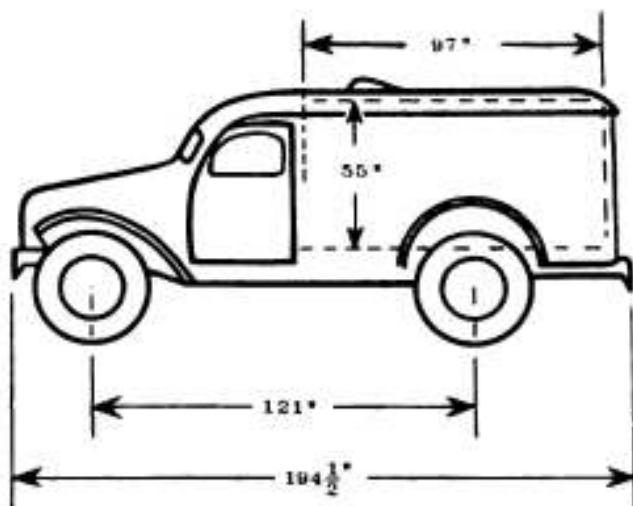
Technical Manuals: TM 10-1531, 10-1530

SNL G-502



Classification: Standard.

Purpose: To transport sick and wounded personnel.



SECTION I—AMBULANCES**AMBULANCE, 3/4-TON, 4 x 4**

ARMAMENT	
GUN MOUNTS	
CREW	2
WHEELBASE (inches)	121
OVERALL DIMENSIONS (inches)	
Length ... 194½	Width 77¾
Height	90¾
Reducible to	
INSIDE BODY DIMENSIONS (inches)	
Length 97	Width 62¼
Panel Height	55
TRACK WIDTH (inches)	
Width between inside edges of rear tires or track (inches)	54
Width between outside edges of rear tires or track (inches)	75½
Distance from front axle center to first rear bogie axle center (inches)	
Distance between rear bogie axle centers (inches)	
SHIPPING DIMENSIONS (not boxed)	
Square feet	105
Cubic feet	
With top up	790
With top down	
ROAD WEIGHT, less personnel (lbs.)	
Net .. 5,920	Payload 1,500
Gross	7,420
GROUND PRESSURE	
(lbs. per sq. in.)	
GROUND CLEARANCE,	
Min. (inches)	10⅝
NORMAL FORDABILITY (inches) ..	34
MAX. GRADABILITY (per cent) ..	54.4
ANGLE OF APPROACH (degrees) ..	53
ANGLE OF DEPARTURE (degrees) ..	24
TRENCH-CROSSING ABILITY	
(feet)	
TURNING RADIUS (feet)	
Left 26¼	Right 26¼
TOP COVERED SPEED (r.p.m.) ..	3,200
	SPEED AT MAX. GOVERNED R.P.M.
	(m.p.h.)
	54
	MILES PER GALLON
	(hard-surface roads)
	With Towed Load.....
	Without Towed Load.....
	7
	8
	CRUISING RANGE (miles)
	210
	CAPACITIES
	Fuel Tank (gals.)
	Cooling System (qts.)
	Crankcase (qts.)
	Oil Reservoir (qts.)
	Transmission (pts.)
	Tank Differential (pts.)
	Final Drive (pts. ea.)
	Transfer Case (pts.)
	Front Axle (pts.)
	Rear Axle (pts. ea.)
	Steering Gear (pts.)
	Brake System (pts.)
	As required
	ENGINE
	Make .. Dodge
	Model T-214
	Type .. In-Line, 6 Cyl., 4 Cycle
	Displacement (cu. in.)
	230.2
	Fuel
	Gasoline, 70 octane
	COOLING SYSTEM
	Type
	Liquid
	No. of Draining Points
	2
	ELECTRICAL SYSTEM
	Ignition (type)
	Battery
	Batteries (No.) .. 1 (Volts ea.) ..
	6
	BRAKES (Service)
	Type
	Hydraulic
	TIRES
	Size ... 9.00-16 Ply
	8
	Recommended Pressure (lbs.)
	40
	No. of Spares
	1
	WINCH CAPACITY (lbs.) ..
	ADDITIONAL DATA

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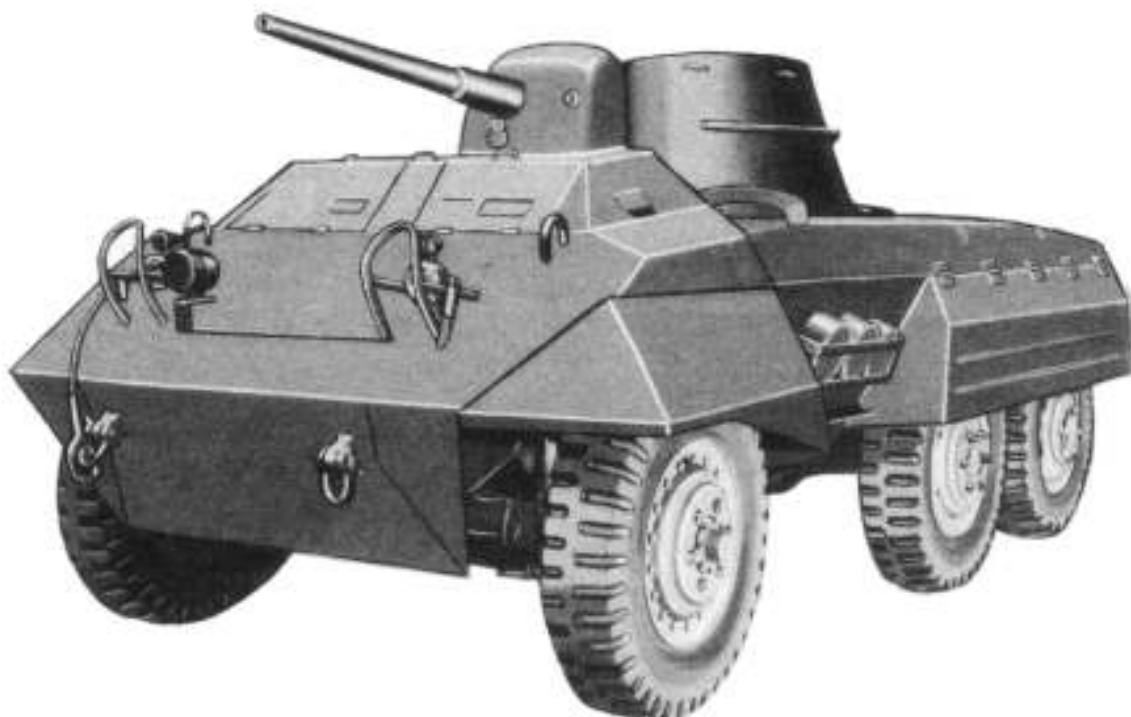
CAR, 6 x 6, ARMORED, LIGHT, M8

Manufacturer: FORD Model: M8

Year: 1942

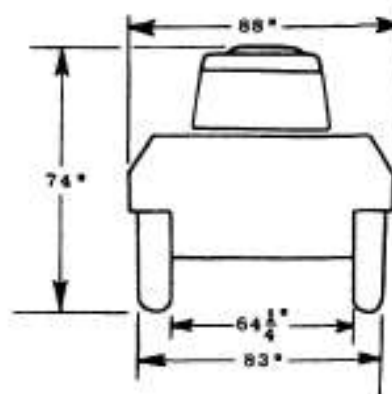
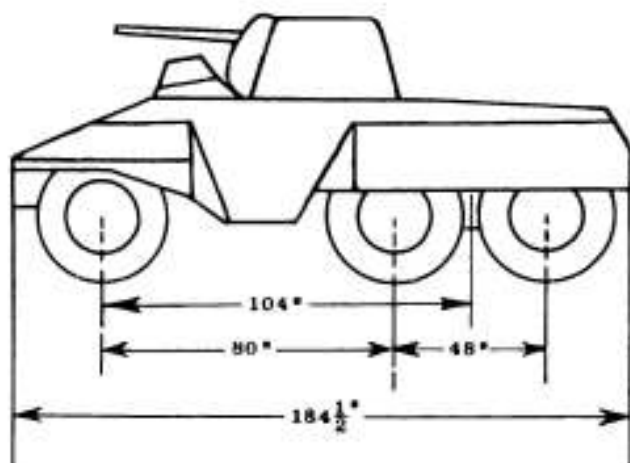
Technical Manuals:

SNL G-1336



Classification: Standard.

Purpose: To provide high speed mobility, defensive firepower, and crew protection for reconnaissance.



SECTION III—ARMORED CARS

CAR, 6 x 6, ARMORED, LIGHT, M8

ARMAMENT One gun, 37 mm; one gun, machine, cal. .30

GUN MOUNTS			
CREW	4	SPEED AT MAX. GOVERNED R.P.M.	
WHEELBASE (inches)	104	(m.p.h.)	55
OVERALL DIMENSIONS (inches)		MILES PER GALLON	
Length .. 184½	Width	(hard-surface roads)	
Height	74	With Towed Load	
Reducible to		Without Towed Load	7½
INSIDE BODY DIMENSIONS (inches)		CRUISING RANGE (miles)	420
Length	Width	CAPACITIES	
Panel Height		Fuel Tank (gals.)	59
TRACK WIDTH (inches)		Cooling System (qts.)	20
Width between inside edges of		Crankcase (qts.)	7
rear tires or track (inches)	64¼	Oil Reservoir (qts.)	
Width between outside edges of		Transmission (pts.)	9
rear tires or track (inches)	83	Tank Differential (pts.)	
Distance from front axle center		Final Drive (pts. ea.)	
to first rear bogie axle center		Transfer Case (pts.)	5
(inches)	80	Front Axle (pts.)	7
Distance between rear bogie axle		Rear Axle (pts. ea.)	7
centers (inches)	48	Steering Gear (pts.)	2
SHIPPING DIMENSIONS (not boxed)		Brake System (pts.)	5
Square feet	193.75	ENGINE	
Cubic feet		Make	Hercules
With top up	695.29	Model	JXD
With top down		Type	In-line, 6 cyl., 4 cycle
ROAD WEIGHT, less personnel (lbs.)		Displacement (cu. in.)	320
Net		Fuel	Gasoline, 70 octane
Gross	16,180	COOLING SYSTEM	
GROUND PRESSURE		Type	Liquid
(lbs. per sq. in.)	59.5	No. of Draining Points	1
GROUND CLEARANCE,		ELECTRICAL SYSTEM	
Min. (inches)	11½	Ignition (type)	Battery
NORMAL FORDABILITY (inches) ..	34	Batteries (No.) .. 1	(Volts ea.) .. 12
MAX. GRADABILITY .. (per cent) ..	60	BRAKES (Service)	
ANGLE OF APPROACH (degrees) ..	60	Type	Hydraulic
ANGLE OF DEPARTURE (degrees) ..	60	TIRES	
TRENCH-CROSSING ABILITY		Size	9.00-20 Ply
(feet)	1½	Recommended Pressure (lbs.)	65
TURNING RADIUS (feet)		No. of Spares	
Left	27½	WINCH CAPACITY (lbs.)	
Right	27½	ADDITIONAL DATA	
TOP GOVERNED SPEED (r.p.m) ..	3,200		