TM 9-765

WAR DEPARTMENT

TECHNICAL MANUAL

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BOMB SERVICE TRUCK M6 (Chevrolet)

AUGUST 13, 1942

TECHNICAL MANUAL
No. 9-765

WAR DEPARTMENT
Washington, August 13, 1942

BOMB SERVICE TRUCK M6 (Chevrolet)

Prepared under the direction of the Chief of Ordnance

(With the cooperation of the Chevrolet Motor Division, General Motors Corporation)

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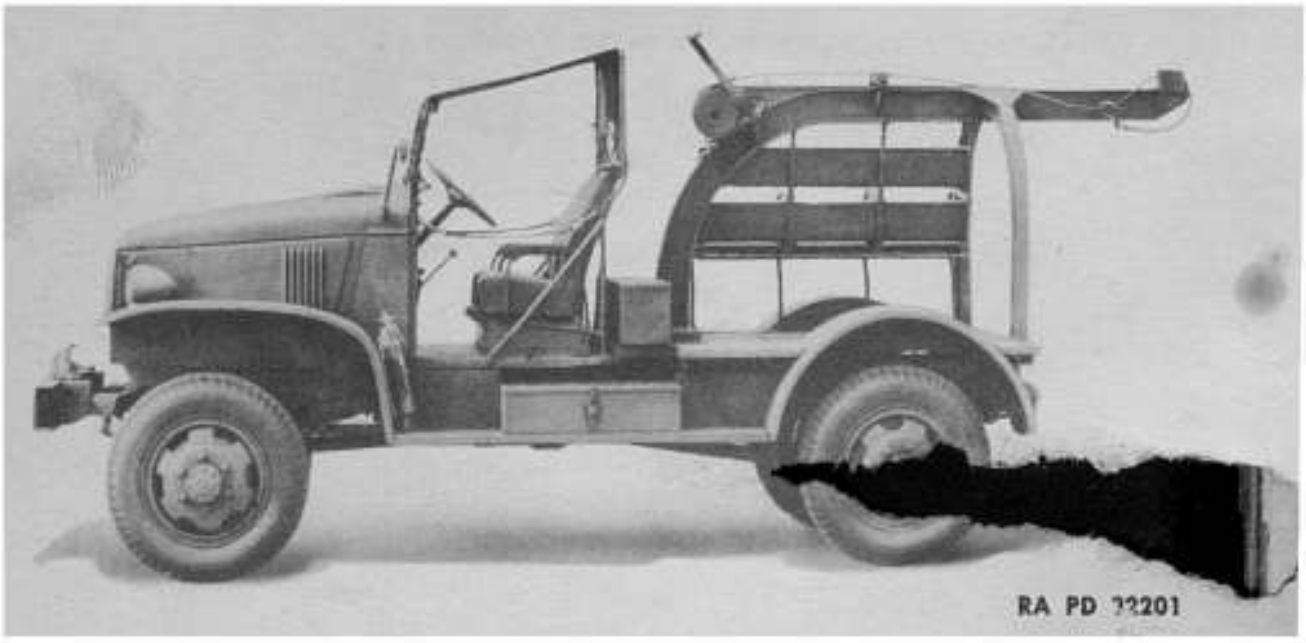

Figure 1—Chevrolet Bomb Service Truck—Left Side

Figure 2—Chevrolet Bomb Service Truck—Right Side

Figure 3—Chevrolet Bomb Service Truck—Left Front

PART ONE — OPERATING INSTRUCTIONS

Section I

INTRODUCTION

	Paragraph
Scope	1
General description	2
Data	3

1. SCOPE.

a. This manual is published for the information and guidance of the using arms and services.

b. In addition to a description of the CHEVROLET 4 x 4 MODEL G-7128 BOMB SERVICE TRUCK M6, this manual contains technical information required for the identification, use and care of the materiel.

c. Disassembly, assembly and such repairs as may be handled by using arms personnel will be undertaken only under the supervision of an officer or the chief mechanic.

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

2. GENERAL DESCRIPTION.

a. The bomb service truck is used to load, unload and tow bomb trailers. It is powered by a six-cylinder valve-in-head engine. A single plate dry disk clutch with a diaphragm spring is used.

b. A selective sliding gear type transmission supplies four forward speeds and one reverse speed.

c. In order to provide a drive to the front axle as well as an auxiliary low speed, a two-speed transfer case is mounted back of the transmission.

d. Tubular drive shafts with needle type universal joints are used between the transfer case and axles as well as between the transfer case and transmission.

e. The frame, constructed of heavy channel steel, supports the open type body and platform on which a hoist for loading and unloading the bomb trailer is mounted.

INTRODUCTION

3. DATA.

a. General.

Wheelbase	125 in.
Weight (shipping)	6040 lb
Weight (road)	6325 lb
Ground clearance	18 $\frac{5}{16}$ in.
Tread (center to center of tracks)	60 $\frac{5}{16}$ in.
Width over-all	72 in.
Height over-all	91 $\frac{7}{8}$ in.
Length over-all	220 $\frac{3}{8}$ in.
Tire pressure	55 lb

b. Engine.

Number of cylinders	6
Firing order	1-5-3-6-2-4
Bore and stroke	3 $\frac{9}{16}$ x 3 $\frac{5}{16}$
Piston displacement	235.5 cu in.
Compression ratio	6.62 to 1
Rated horsepower (at 3100 rpm)	93
Weight of engine and clutch ass'y.	574 lb

c. Fuel, Oil, and Cooling Capacities.

Fuel capacity	Main tank, 30 gal Auxiliary tank, 18 gal
Oil capacity, engine	5 qt
Transmission	5 ½ pt
Transfer case	4 pt
Front axle	13 ½ pt
Rear axle	14 pt
Cooling system	17 ¼ qt
Cruising range	250 miles

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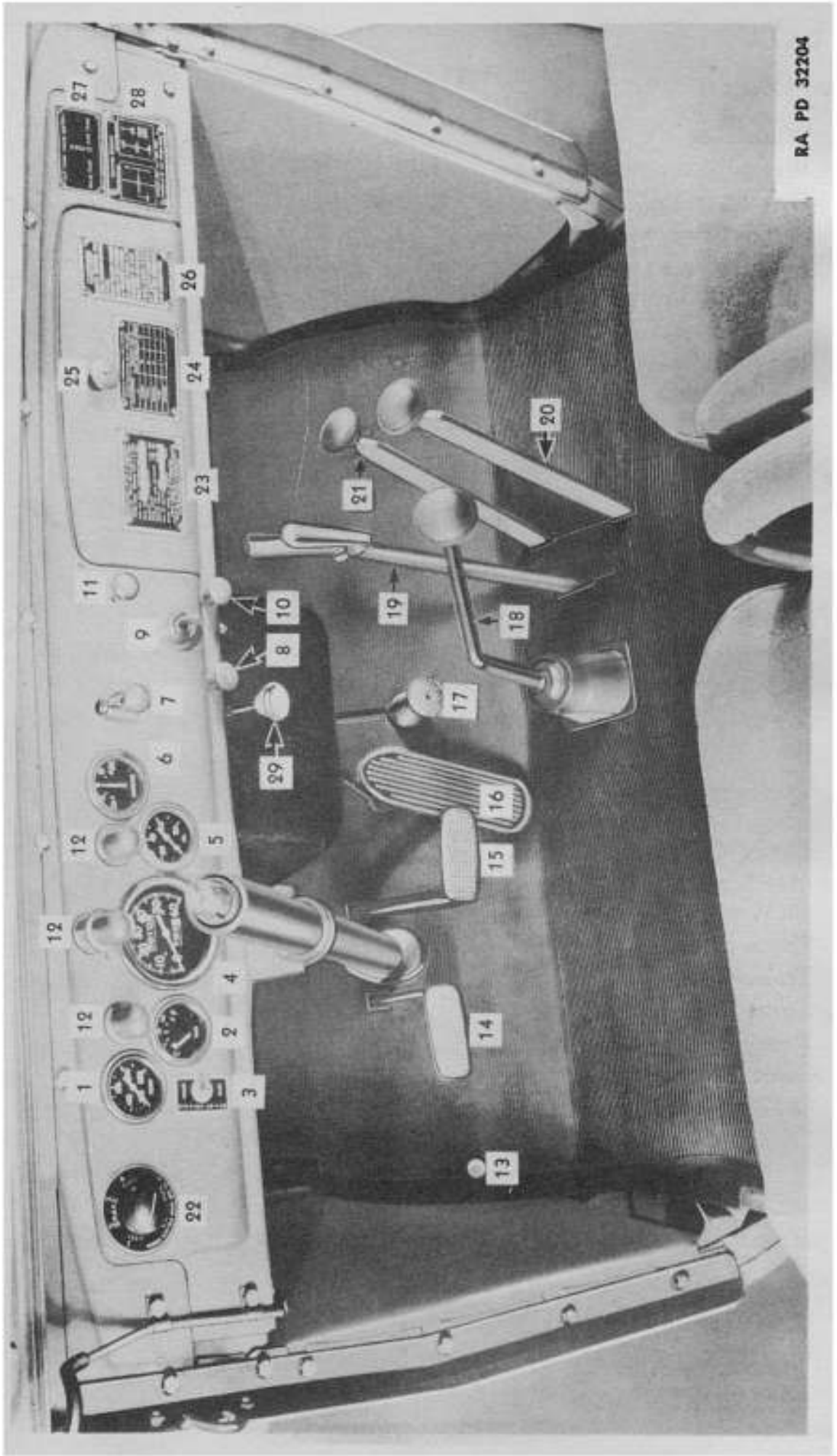

Figure 4—Driver's Compartment

INTRODUCTION

1—Temperature Gage Indicator
2—Fuel Gage
3—Fuel Gage Gas Tank Selector Switch
4—Speedometer
5—Oil Pressure Gage
6—Ammeter
7—Lighting Switch
8—Carburetor Choke
9—Ignition Switch
10—Hand Throttle
11—Panel Light Switch
12—Panel Lights
13—Headlight Dimmer Switch
14—Clutch Pedal
15—Brake Pedal
16—Accelerator
17—Starter Switch Pedal
18—Transmission Gearshift Lever
19—Hand Brake Lever
20—Transfer Case Shifting Lever
21—Front Axle Control Lever
22—Trailer Electric Brake Load Control
23—Serial Number and Load Data Plate
24—Maximum Permissible Road Speeds Plate
25—Glove Compartment Lock
26—Cooling System Draining Caution Plate
27—Gas Tank Valve Control Plate
28—Shifting Diagram Plate
29—Ventilator Control Lever

RA PD 32204A

Nomenclature for Figure 4—Driver's Compartment

Section II

OPERATION AND CONTROLS

	Paragraph
General information on instruments and controls	4
Prestarting inspection	5
Starting the engine	6
Operating the vehicle	7

4. GENERAL INFORMATION ON INSTRUMENTS AND CONTROLS.

a. It is of definite importance that the driver of one of these vehicles be thoroughly familiar with the various controls and their proper use. Even the experienced driver should study the controls shown in figures 4, 5, 6, 7, 8, 9, and 10 as there are a number which are not ordinarily found on standard vehicles.

b. Figure 4 illustrates the controls, instruments and instruction plates and their location. In the following instructions we will refer to this illustration by the key number of the control or instrument being discussed so that the reader may easily follow the instructions.

c. Temperature Indicator No. 1 indicates the temperature of the liquid in the cooling system at all times. The dial of the instrument indicates temperature in degrees Fahrenheit. The driver should watch this instrument closely for any indication of excessive temperature. Whenever the indicator hand shows over 180 degrees, the driver should immediately investigate the cause of the excessive temperature. Continuing to drive an over-heated engine may cause permanent damage to its working parts.

d. Fuel Gage No. 2 registers the amount of fuel in either the main tank or the auxiliary tank, according to the position of the gas tank gage selector switch No. 3, when the ignition switch is also turned on. The gage has gradations for empty, ¼, ½, ¾ and full.

e. Fuel Gage Gas Tank Selector Switch No. 3. When it is desired to check the quantity of fuel in the main tank, the switch lever should be up, and when checking the auxiliary tank the switch lever should be down. The position of this switch should coincide with the position of the gasoline tank selector valve shown in figure 5.

f. Speedometer No. 4 indicates the speed at which the vehicle is being driven. The odometer registers the total number of miles the vehicle has been driven.