

*Hermann Mtz 111*

TM 9-731B

**RESTRICTED**

**WAR DEPARTMENT**

**TECHNICAL MANUAL**



**MEDIUM TANK  
M4A2**

**JANUARY 13, 1943**

**72/336**



**RESTRICTED****TM 9-731B****TECHNICAL MANUAL  
No. 9-731B }****WAR DEPARTMENT,  
Washington, January 13, 1943****MEDIUM TANK M4A2**

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

(with the cooperation of Fisher Body Division, General Motors Corporation)

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## **NOTE**

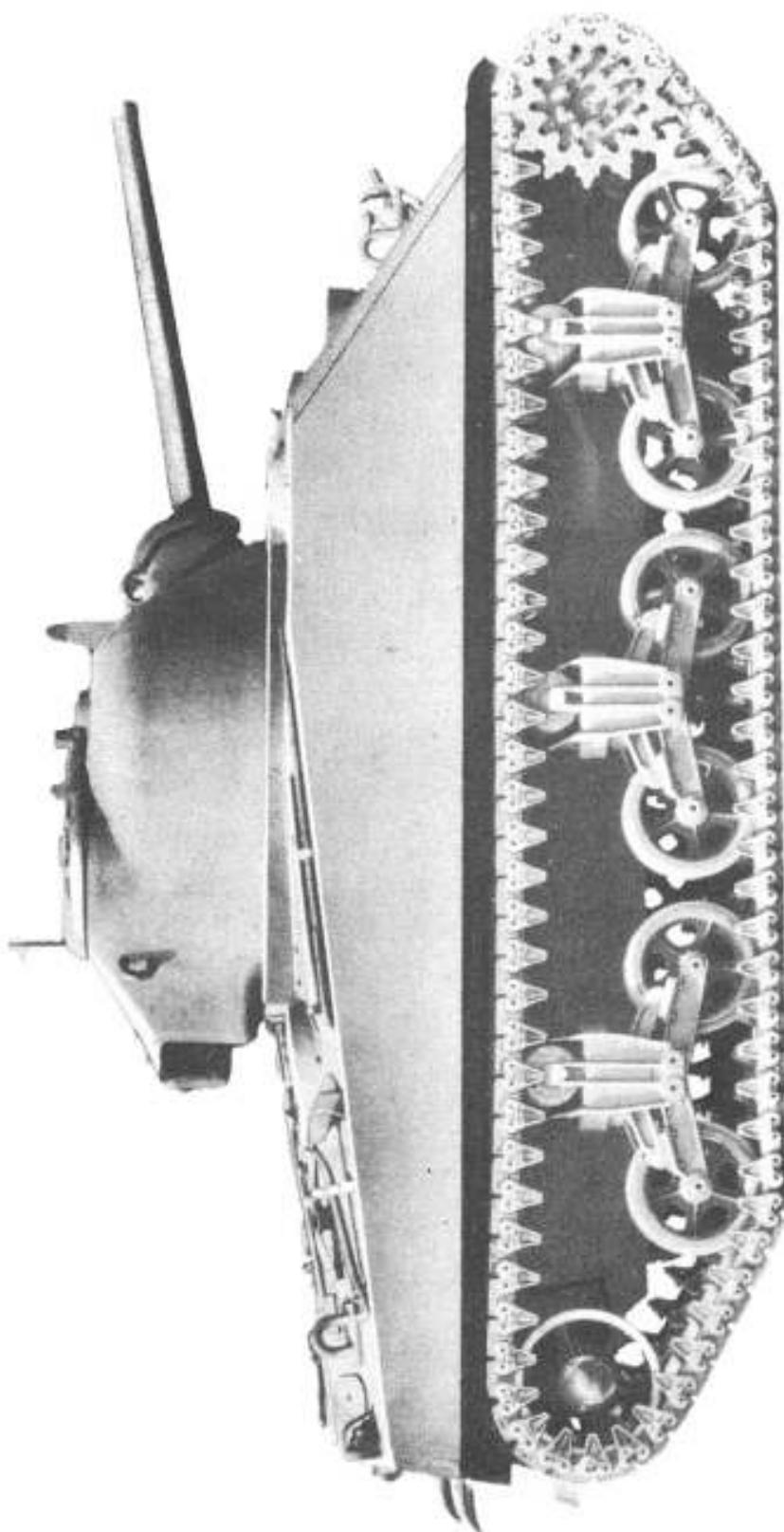
# **3-INCH GUN MOTOR CARRIAGE M10**

The power plant, propeller shaft, transmission, differential and final drives, controls, instrument panel and many other units and accessories on the Medium Tank M4A2 are identical with those used in the 3-Inch Gun Motor Carriage M10.

Therefore, this Temporary Operator's Manual for Medium Tank M4A2, which contains later information may be used as a reference and guide in operating and servicing those units which are common to both vehicles until Temporary Operator's Manual TM 9-752A for the 3-Inch Gun Motor Carriage, M10, is revised.

The following Sections will apply to both vehicles in main or in part.

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*Frontispiece—Medium Tank M4A2, with Rubber Tracks and  
First Type Suspensions*

**PART I—OPERATING INSTRUCTIONS****Section I****INTRODUCTION**

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**1. SCOPE.**

This technical manual is intended to serve temporarily (pending the publication of a more complete revision) to give information and guidance to personnel of the using arms charged with the operation, maintenance and minor repair of this materiel.

**2. CONTENT AND ARRANGEMENT.**

- a. Part I (Sections 1 through X) contains information chiefly for the guidance of operating personnel.
- b. Part II (Sections XI through XXVI) contains information intended chiefly for the guidance of the using arms personnel doing maintenance work.

**3. REFERENCES.**

Sections XXVII, at the end of Part II, lists all Standard Nomenclature Lists, Technical Manuals, and other publications, also Training Films, applying to the materiel described herein.

**4. DESCRIPTION, MEDIUM TANK M4A2 (figs. 1, 2, 3, and 4).**

- a. **General.** The Medium Tank M4A2 is a heavily armored full-track-laying vehicle powered by twin six-cylinder two-cycle liquid-cooled Diesel engines. Its chief armament is a 75-mm. gun in a cast armor steel turret, which is mounted on an all-welded hull of armor plate.

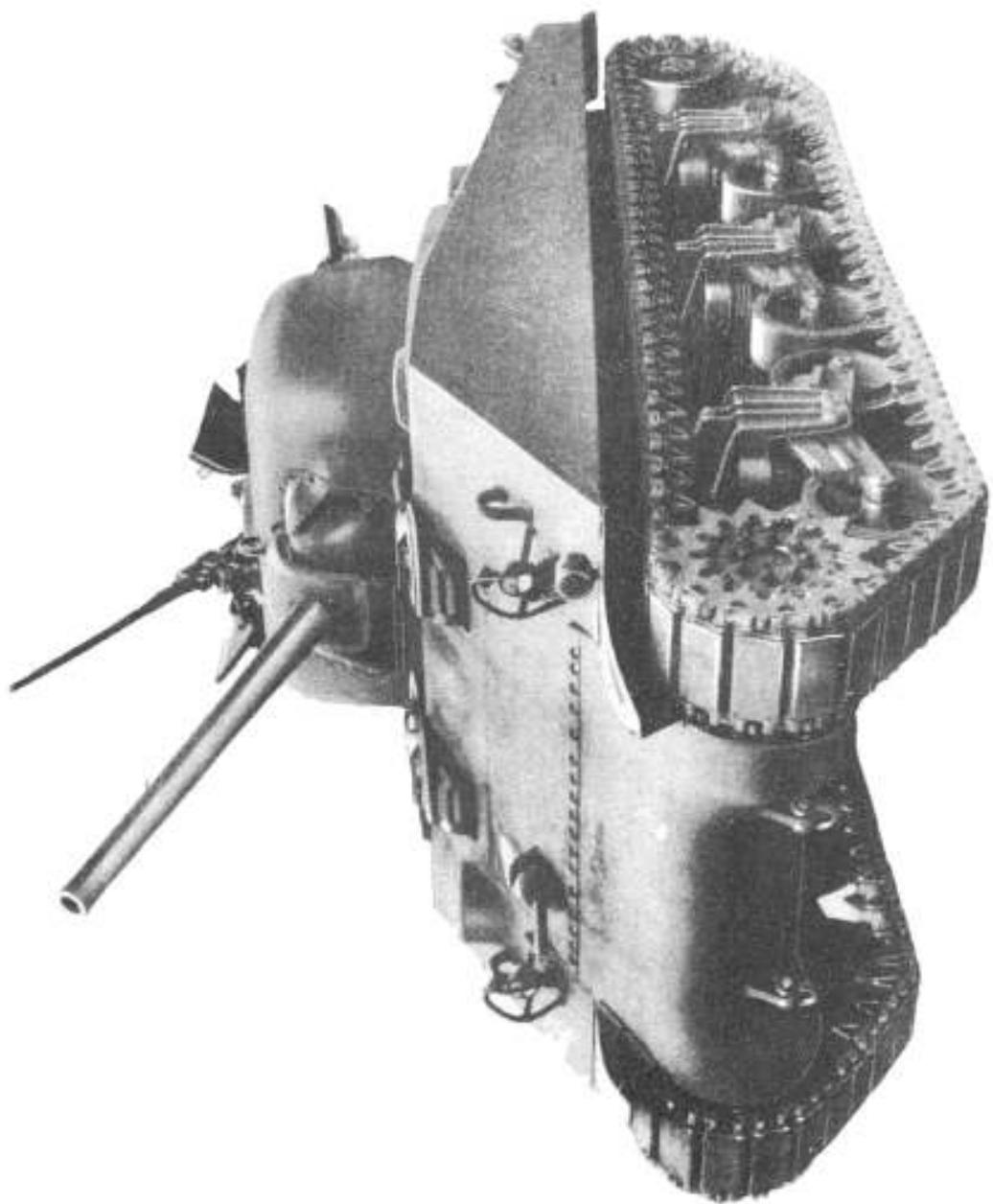
- b. Turret and hull.** The turret carries a combination mount for a 75-mm. gun and a cal. .30 machine gun. The turret platform, or basket,

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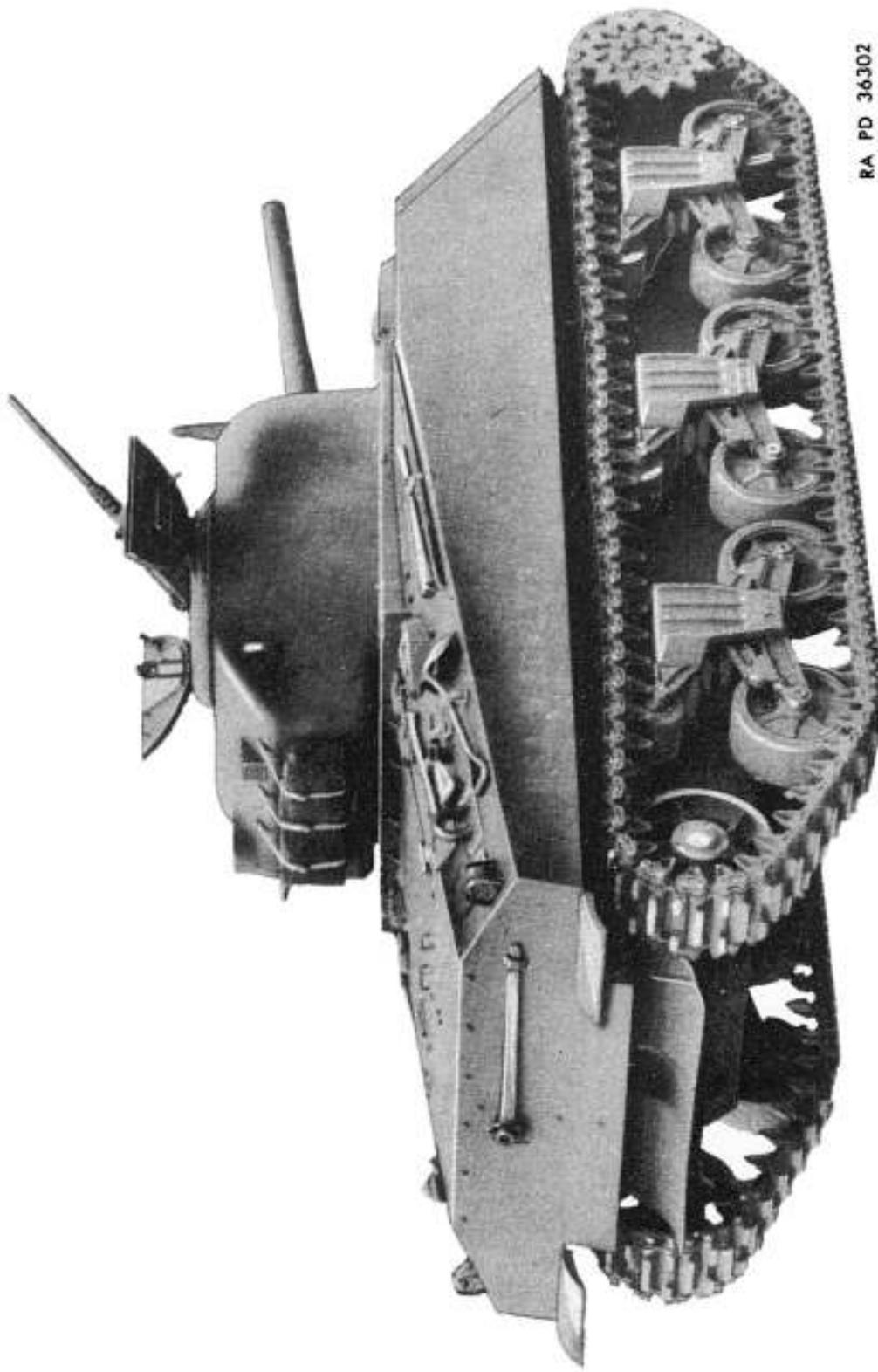
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MEDIUM TANK, M4A2

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INTRODUCTION



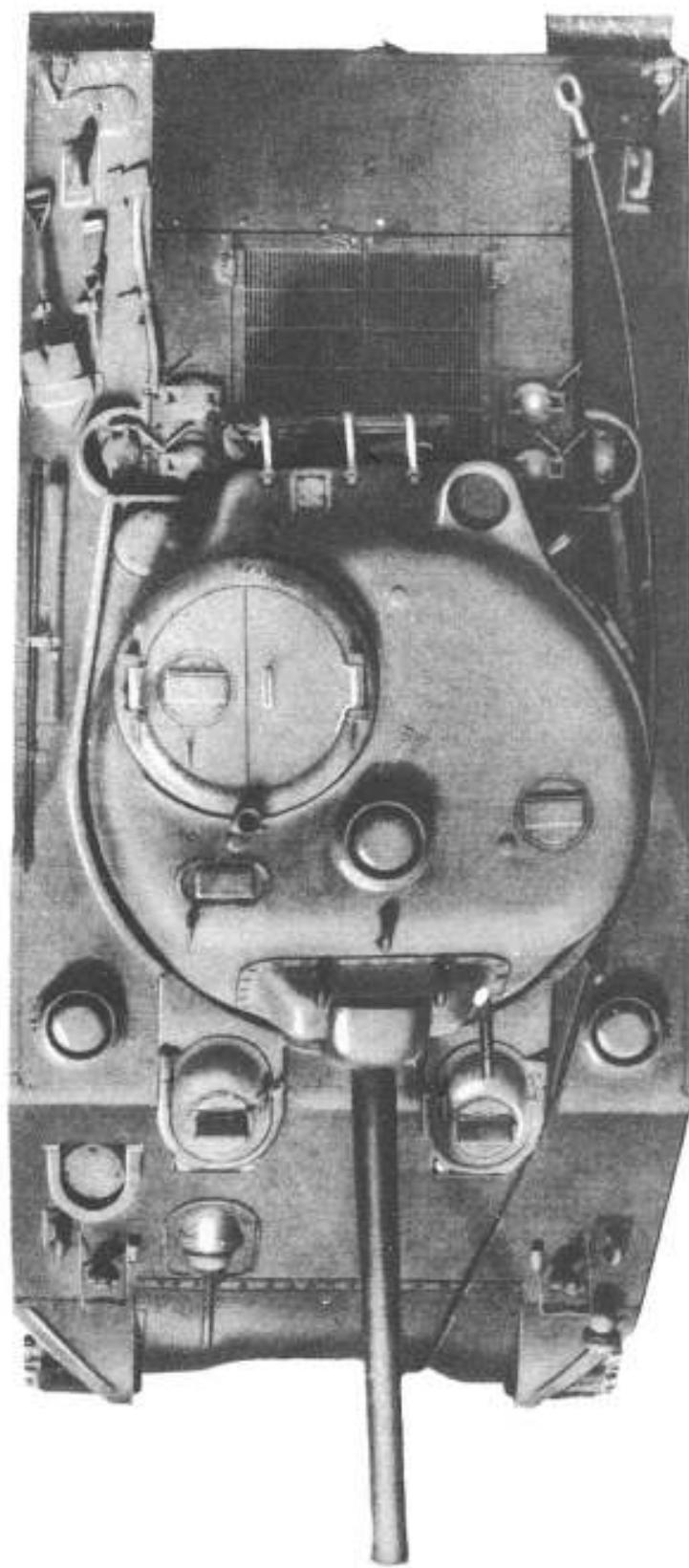
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Figure 2—Medium Tank M4A2, with Steel Tracks and Second Type Suspensions

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MEDIUM TANK, M4A2



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*Figure 3—Medium Tank M4A2, Top, Pioneer Equipment in Place*