

TM9-1729C

WAR DEPARTMENT TECHNICAL MANUAL

ORDNANCE MAINTENANCE
LIGHT TANK M24
AND
155-MM HOWITZER
MOTOR CARRIAGE M41
TRACKS, SUSPENSION
HULL AND TURRET

WAR DEPARTMENT TECHNICAL MANUAL

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WAR DEPARTMENT • SEPTEMBER 1947

United States Government Printing Office

Washington : 1947

WAR DEPARTMENT

WASHINGTON 25, D. C., 9 September 1947

TM 9-1729C, Ordnance Maintenance, Light Tank M24 and 155-mm Howitzer Motor Carriage M41: Tracks, Suspension, Hull and Turret, is published for the information and guidance of all concerned.

Information in this manual is effective as of 11 June 1947.

[AG 300.7 (9 Jan 47)]

BY ORDER OF THE SECRETARY OF WAR:

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

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CHAPTER 1

INTRODUCTION

1. Scope

a. These instructions are published for information and guidance of personnel responsible for field and base maintenance on light tank M25, and 155-mm howitzer motor carriage M41. They contain information on maintenance which is beyond the scope of the tools, equipment, or supplies normally available to using organizations. This manual does not contain information which is intended primarily for the using arm, since such information is available to ordnance maintenance personnel in 100-series TM's or FM's.

b. This manual contains a description of, and procedure for, removal, disassembly, inspection, repair, and assembly of the track suspension system, hull, hull electrical equipment, turret, howitzer mount, and spade assembly.

c. TM 9-729 contains operating and lubricating instructions for the light tank T24 (M24) and contains all maintenance operations allocated to second echelon.

d. TM 9-744 contains operating and lubricating instructions for the 155-mm howitzer motor carriage M41 and contains all maintenance operations allocated to organizational maintenance units.

e. TM 9-1729A contains a description and procedure for disassembly, cleaning, inspection, repair, and assembly of the engines, and of the components of the cooling systems and fuel systems of light tank M24, and twin 40-mm gun motor carriage M19.

f. TM 9-1729B contains the same essential information on the transmission, transfer unit, propeller shafts, controlled differential, and final drives of light tank M24, and twin 40-mm gun motor carriage M19.

g. TM 9-1731G contains service information on the hydraulic turret traversing mechanism used in these vehicles.

h. TM 9-1825A contains service information on the Delco-Remy electrical equipment used in these vehicles.

i. TM 9-1826A contains service information on the Carter carburetor used in these vehicles.

- j.* TM 9-1829A contains information on speedometers and tachometers.
- k.* TM 9-1731D contains information on azimuth indicators.
- l.* TM 9-1828A contains information on fuel pumps.
- m.* TM 9-1313 contains overhaul and maintenance information on the Gun, 75-mm, M6 and the mount, combination gun, M64.

2. Forms, Records, and Reports

a. GENERAL. Forms, records, and reports are designed to serve necessary and useful purposes. Responsibility for the proper execution of these forms rests upon commanding officers of all units maintaining this equipment. It is emphasized, however, that forms, records, and reports are merely aids. They are not a substitute for thorough practical work, physical inspection, and active supervision.

b. AUTHORIZED FORMS. The forms, records, and reports generally applicable to units maintaining this equipment are listed below with brief explanations of each. No forms other than approved War Department Forms will be used. Pending availability of forms listed, old forms may be used. For a current and complete listing of all forms, see current FM 21-6 (lists and index of War Department publications).

(1) *War Department Lubrication Order.* War Department Lubrication Order No. 9-729 and 9-744 prescribes lubrication maintenance for this equipment. A lubrication order is issued with each vehicle and is to be carried with it at all times. Instructions contained herein are mandatory to all users of the equipment and supersede all conflicting lubrication instructions of prior date.

(2) *WD AGO Form 9-71 (Locator and Inventory Control Card).* Except when specified otherwise by the War Department, this form will be used as a bin tag, locator card, or inventory control card by all units authorized automotive spare parts.

(3) *WD AGO Form 9-72 (Ordnance Stock Record Card).* This form is prescribed for use by ordnance maintenance and depot companies.

(4) *WD AGO Form 9-74 (Motor Vehicle Operator's Permit).* This form will be issued by commanders to all operators of vehicles who are qualified to operate the particular vehicles noted on the permit.

(5) *WD AGO Form 9-76 (Request for Work Order).* This form will be used for requesting repairs, alterations, or other type of work within or between organizations and departments.

(6) *WD AGO Form 9-77 (Job Order Register).* This form will be used to keep a chronological record of work orders.

(7) *WD AGO Form 13-1 (Automotive Disability Report of Vehicles Disabled More Than 3 Days)*. This form will be accomplished and submitted as directed in current War Department instructions.

(8) *WD AGO Form 462 (Work Sheet for Full-track and Tank-like Wheeled Vehicles)*. This form will be used for maintenance services and for all technical inspections of these vehicles.

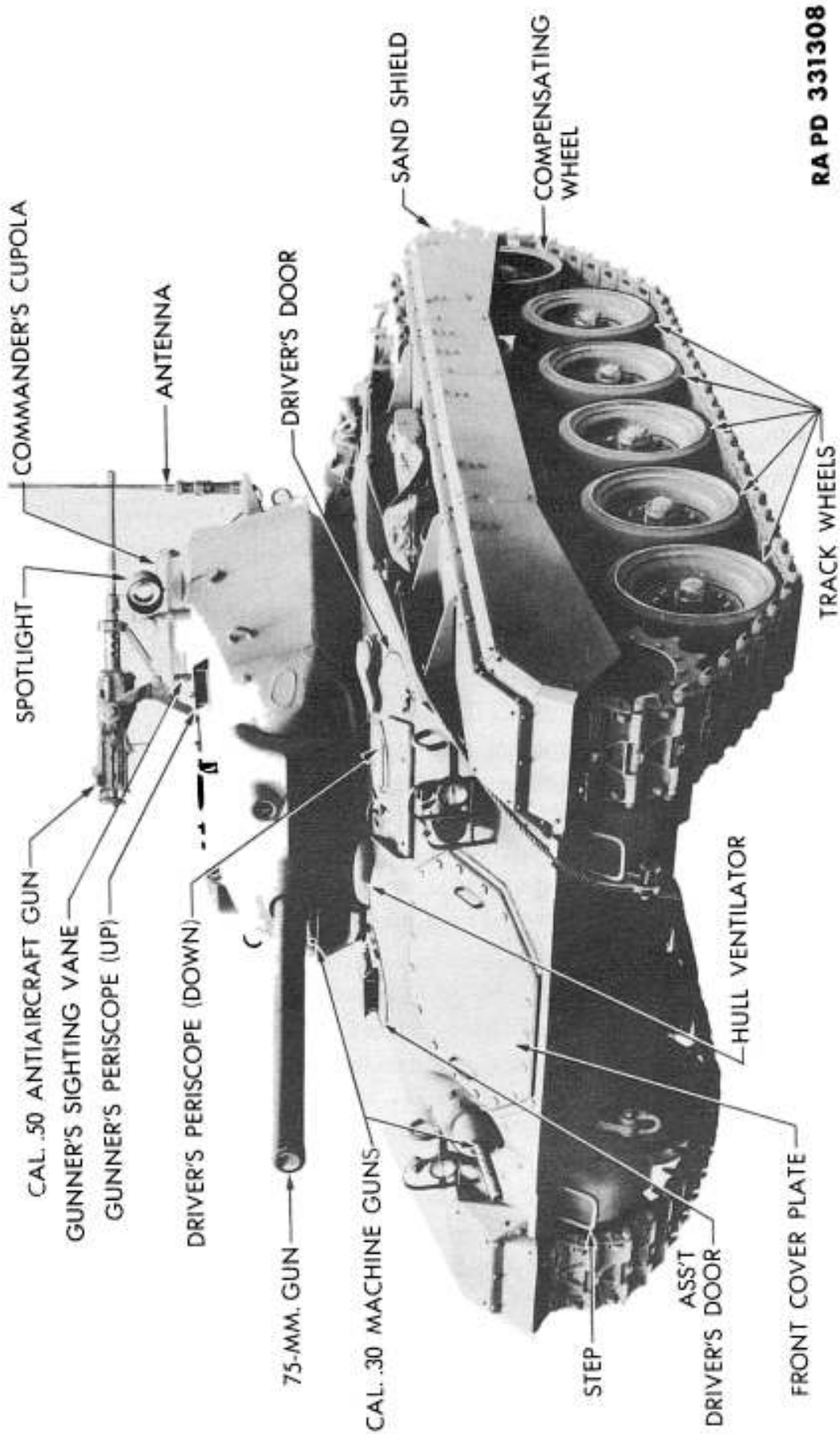
(9) *WD AGO Form 461-5 (Limited Technical Inspection)*. This form will be used for limited technical inspections to classify vehicles as to general over-all condition.

(10) *WD AGO Form 478 (Modification Work Order and Major Unit Assembly Replacement Record and Organization Equipment File)*. This form will be kept in possession of organizational maintenance personnel and will accompany vehicles upon transfer and evacuation to higher maintenance units. It will be a record of all modifications made and exchanges of major unit assemblies. Minor repairs, parts and accessory replacements will not be recorded. In the field, where no filing facilities are available, this form will be kept in a filing jacket.

(11) *WD AGO Form 811 (Work Request and Job Order)*. This form will be used by organizational maintenance units when requesting repair by a higher repair unit.

(12) *WD AGO Form 866 (Consolidation of Parts)*. This form will be used by a maintenance company for the periodic report required by higher headquarters showing the parts and materials used and issued by the company for a given period.

(13) *WD AGO Form 867 (Status of Modification of Work Order)*. This form provides a record of the status at any time of any modification work order being performed by a maintenance shop.



RA PD 331308

Figure 1. Light tank M24