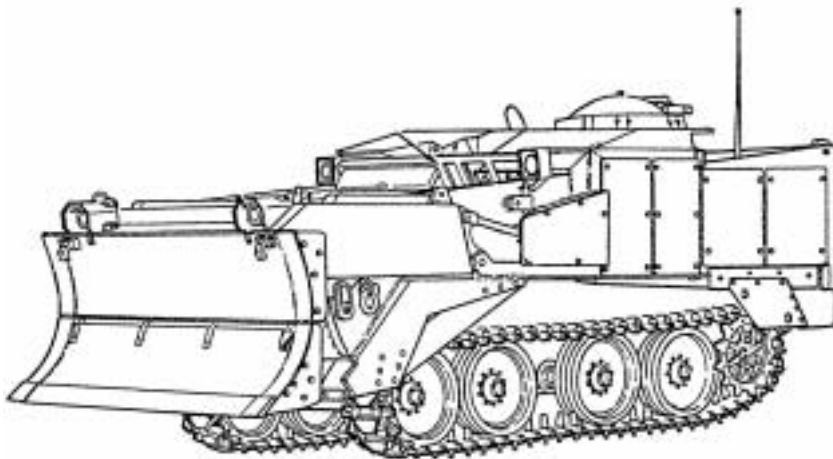


TM 5-2350-262-34*

TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL



ARMORED COMBAT EARTHMOVER (ACE), M9 [NSN 2350-00-808-7100]

* This manual supersedes TM 5-2350-262-34, dated October 1990, and all related changes.

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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JANUARY 1997

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DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL

**ARMORED COMBAT EARTHMOVER (ACE), M9
(2350-00-808-7100)**

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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HOW TO USE THIS MANUAL

GENERAL

This manual contains direct support and general support maintenance procedures for the M9 vehicle.

Chapter 1 contains general information.

Chapter 2 contains the following:

- Special tools list
- Checklists for vehicle services, adjustments, final inspections, and road tests
- General maintenance procedures

Chapter 3 contains troubleshooting procedures.

Chapter 4 contains instructions for direct support and general support maintenance of M9 components.

Appendix A contains references, such as technical manuals and other publications, to which you may need to refer.

Appendix B contains a list of special tools and equipment.

Appendix C contains a list of expendable/durable supplies and materials you will need.

Appendix D contains wiring schematic diagrams.

Appendix E contains an illustrated list of manufactured/fabricated items.

Appendix F contains torque limit data for screws and nuts used on M9 vehicles.

IMPORTANT

Read and be sure you understand the entire maintenance procedure before beginning any maintenance task.

Also, read the general information in Chapter 1 and general repair methods (p 2-8).

SAMPLE PROBLEM NO. 1

How do I repair the apron hydraulic cylinder?

- Look at the Table of Contents (p a) for Group AP, Bolted Hull Assembly Installation.
- Turn to the page listed (p 4-88). There you will find a table of contents for group AP. Locate apron hydraulic cylinder in this table.
- Turn to the page listed (p 4-89). Follow the repair instructions.

SAMPLE PROBLEM NO. 2

The engine stalls out. How do I find what is wrong?

- A** Turn to the Symptom Index (p 3-28). Find the symptom that best describes the malfunction (ABNORMAL ENGINE OPERATION).
- B** Find the problem with the item (ROUGH IDLING OR STALLING).
- C** Turn to the page referenced for troubleshooting (p 3-32).
- D** Follow the troubleshooting steps until you find what is wrong (e.g., CHECK FOR A MISFIRING CYLINDER).
- E** Follow instructions to correct the problem (REPLACE TIMING GEARS).

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CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

SCOPE

Type of Manual: Direct Support and General Support Maintenance.

Model Number and Equipment Name: M9, Armored Combat Earthmover (ACE).

Purpose of Equipment: A combat engineer vehicle, used for dozing, grading, hauling, and defilade preparation.

MAINTENANCE FORMS, RECORDS, AND REPORTS

Department of the Army forms and procedures used for equipment and maintenance will be those prescribed by DA Pam 738-750, The Army Maintenance Management System (TAMMS).

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

When the tactical situation requires that Army materiel be abandoned, refer to TM 750-244-6, Procedures for Destruction of Tank-automotive Equipment to Prevent Enemy Use.

PREPARATION FOR STORAGE OR SHIPMENT

Instructions for storage and shipment are found in TM 55-2350-262-14, Transportability Guidance, Armored Combat Earthmover, M9.