

TM-9-2320-212-10

**M37
Series**

**OPERATOR'S
MANUAL**

DEPARTMENT OF THE ARMY TECHNICAL MANUAL
TRUCK, CARGO: 3/4-TON, 4x4, M37, M37B1
TRUCK, AMBULANCE: 4x4, M43, M43B1
TRUCK, MAINTENANCE: 4x4, M201, M201B1



TA 000616

HEADQUARTERS, DEPARTMENT OF THE ARMY 30 NOVEMBER 1973

SHE'S YOUR BABY NOW SOLDIER!

(ALL 8000 LBS.)



TA 000617

TABLE OF CONTENTS

	Para	Page
CHAPTER 1. INTRODUCTION		
Section I. GENERAL		
Purpose and Scope	1-1	1-1
Maintenance Forms and Records . .	1-2	1-1
Recommending Improvements . . .	1-3	1-1
II. DESCRIPTION AND DATA		
Description	1-4	1-2
Tabulated Data	1-5	1-3
Components of End Item	1-6	1-3
Expendable Consumable Maintenance Supplies and Materials	1-7	1-3
CHAPTER 2. OPERATING INSTRUCTIONS		
Section I. OPERATING PROCEDURES		
General	2-1	2-1
Preparation of Vehicle Before Operation	2-2	2-1
Operating Precautions	2-3	2-2
Before-Starting Operations	2-4	2-6
Starting the Engine	2-5	2-7
Driving the Vehicle	2-6	2-9
Stopping the Vehicle	2-7	2-12
Driving in Reverse	2-8	2-13
Parking the Vehicle	2-9	2-14
Use of the Transfer	2-10	2-15
Driving on Steep Grades	2-11	2-17
Operating Ambulance Truck	2-12	2-18
II. OPERATION OF AUXILIARY EQUIPMENT		
Top Operation (M37 and M201) . .	2-13	2-19
Winch and Power-Take-Off	2-14	2-24

TABLE OF CONTENTS – Continued

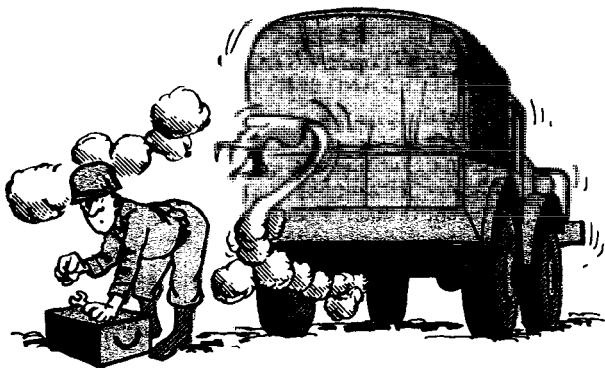
	Para	Page
CHAPTER 2. OPERATING INSTRUCTIONS – Continued		
Litter Racks (M43)	2-15	2-29
Ventilator Blowers (M43)	2-16	2-31
Personnel Heater (M43)	2-17	2-32
Ladder Rack Lock Control (M201)	2-18	2-33
Pole Rack Lock Control (M201)	2-19	2-33
Water Cask Fasteners (M201)	2-20	2-33
PR Reel (M201)	2-21	2-34
Spare Wheel Stowage	2-22	2-35
Fire Extinguisher	2-23	2-36
III. OPERATION UNDER UNUSUAL CONDITIONS		
General	2-24	2-37
Extreme-Cold Weather Conditions	2-25	2-38
Extreme-Cold Weather Operations	2-26	2-42
Extreme-Hot Weather Operations	2-27	2-52
Operation on Unusual Terrain	2-28	2-54
Fording Operations	2-29	2-67
Towing the Vehicle	2-30	2-71
Field Expedients	2-31	2-77

TABLE OF CONTENTS – Continued

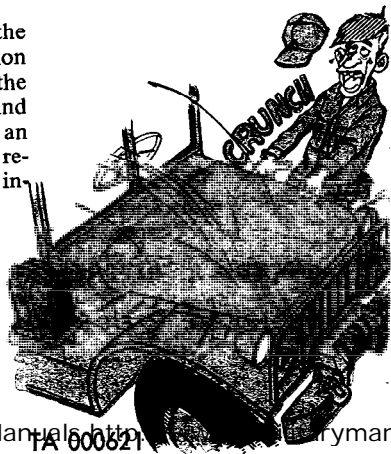
	Para	Page
CHAPTER 3. MAINTENANCE INSTRUCTIONS		
Section I. LUBRICATION		
Lubrication Instructions	3-1	3-1
Service Intervals	3-2	3-1
II. PREVENTIVE MAINTENANCE		
CHECKS AND SERVICES		
General	3-3	3-4
Procedures	3-4	3-5
Cleaning Instructions	3-5	3-7
Cleaning Precautions	3-6	3-8
Preventive Maintenance	3-7	3-8
III. TROUBLESHOOTING		
General	3-8	3-20
Procedures	3-9	3-20
IV. MAINTENANCE PROCEDURES		
General	3-10	3-29
Wheel and Tire Replacement	3-11	3-29
Draining and Filling		
Cooling System	3-12	3-30
Checking Electrolyte		
in Batteries	3-13	3-32
Checking and Filling Carburetor		
Air Cleaner	3-14	3-33
Checking Engine Oil Level	3-15	3-35
Checking and Filling		
Gear Cases	3-16	3-36
APPENDIX A. REFERENCES		A-1
APPENDIX B. BASIC ISSUE ITEMS LIST (BIIL)		B-0

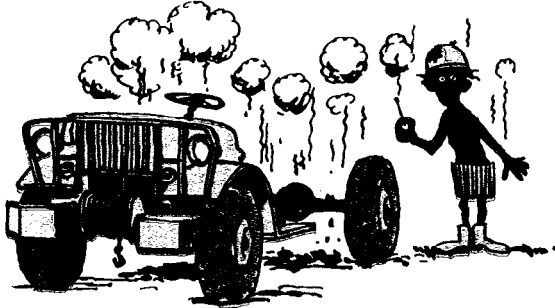
Warning Notes!

WARNING: Do not operate heater or engine in an enclosed area unless it is adequately ventilated. Exhaust fumes contain carbon monoxide, a colorless, odorless, poisonous gas. Permanent brain damage or death can result from prolonged exposure.



WARNING: Never leave the hood in the open position without securing it with the hood holder. A gust of wind or sudden jar may cause an unsupported hood to fall, resulting in serious or fatal injury to personnel.

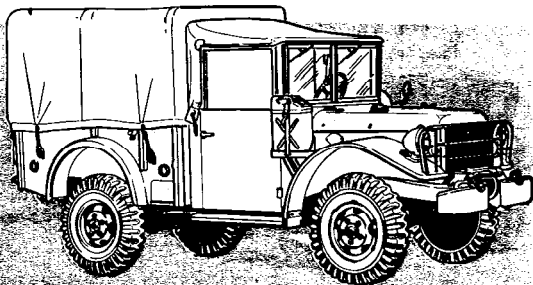




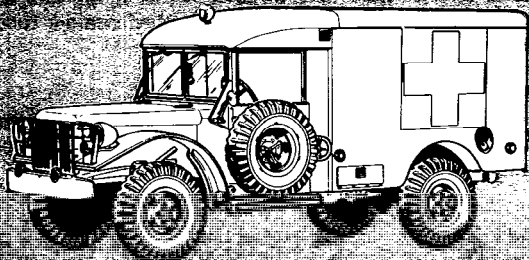
WARNING: Do not use an open flame type light to check fuel tank or tank filler neck strainer. When filling fuel tank, always hold pump hose nozzle firmly against strainer tube to prevent static sparks.

WARNING: Exercise extreme care when opening or removing the radiator cap, especially when coolant gage reads above 180°F. Do not fill radiator when vehicle is overheated.

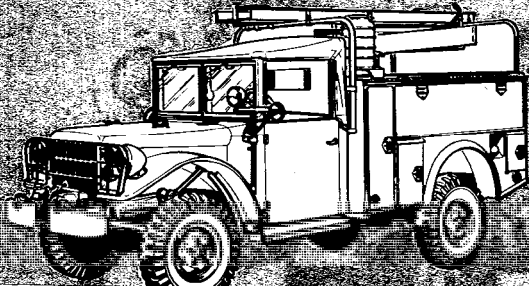




TRUCK, CARGO, 3/4-TON, M37 and M37B1
(2320-835-8323), (2320-542-4632)



TRUCK, AMBULANCE, 3/4-TON, M43 and M43B1
(2310-835-8516), (2310-542-4634)



TRUCK, MAINTENANCE, 3/4-TON, M201 and M201B1

(2320-392-3703), (2320-630-6801)

CHAPTER 1

INTRODUCTION

Section I - GENERAL

1-1. Purpose and Scope.

This manual is for your use in operating and maintaining all of the 3/4 ton, 4 x 4 M37 series vehicles. This series vehicle includes the M37 and M37B1 3/4 ton Cargo Truck, M43 and M43B1 3/4 ton Ambulance Truck, and the M201 and M201B1 3/4 ton Telephone Maintenance Truck. It also provides the operating and maintenance instructions for special purpose equipment supplied with these vehicles.

1-2. Maintenance Forms and Records.

Maintenance forms and records that you are required to use are explained in TM 38-750.

1-3. Recommending Improvements.

You can improve this manual by recommending improvements using DA Form 2028 (Recommended Changes to Publications), or a letter, and mail direct to the Commander, U.S. Army Tank-Automotive Command, Attn., AMSTA-MAPT, Warren, Michigan 48090. A reply will be furnished direct to you.

Section II - DESCRIPTION AND DATA

1-4. Description.

a. The 3/4 ton, 4 x 4 Cargo Truck, Models M37 and M37B1, Ambulance Truck M43 and M43B1, and Telephone Maintenance Truck M201 and M201B1, are designed for use over all types of roads as well as cross-country terrain and in all weather conditions. The vehicles have four driving wheels. Front wheel drive may be engaged as road conditions and terrain require. The four speed transmission and dual range transfer unit adapt to a wide variety of driving situations. The vehicles are powered by a six cylinder, in-line, liquid cooled, gasoline engine. Vehicles have four-wheel hydraulic service brakes and a mechanical hand brake. Many are equipped with a front mounted winch, and all, except the Ambulance M43 and M43B1, are provided with a rear towing pintle. The hinged type spare wheel carrier (except M201 and M201B1) mounted on the cab left door can be unlocked from either the inside or outside, providing full use of the door.

b. The M37 or M37B1, 3/4 ton, 4 x 4 Cargo Truck is a general purpose personnel or cargo carrier. The open-type steel body is separate from the soft top cab and is furnished with folding troop seats. A roof tarpaulin, supported by bows, covers the cargo compartment. Canvas front and rear end curtains are provided with windows.

c. The M43 or M43B1, 3/4 ton, 4 x 4 Ambulance Truck is designed to carry six ambulatory or four litter patients. The panel-type closed steel body is longer and higher and consists of the driver's compartment and the patient's compartment with a connecting partition door. A spotlight is mounted on the roof of the cab.

d. The M201 or M201B1, 3/4 ton, 4 x 4 Telephone Maintenance Truck is designed for telephone installation, light maintenance and cable splicing service. The all steel body is separate from the soft top cab and incorporates compartments for storage of tools and supplies. The spare wheel is located in