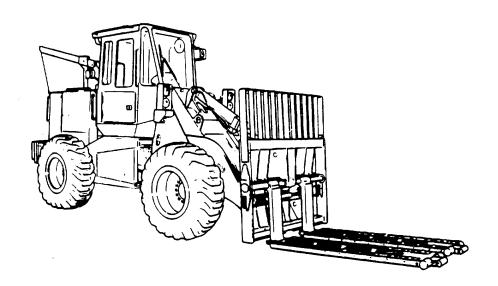
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TM 10-3930-659-10

OPERATOR'S MANUAL

FOR

TRUCK, FORKLIFT:
ADVERSE TERRAIN,
10,000 LB CAPACITY, M544E
(NSN 3930-01-301-8250)



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Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

NOVEMBER 1993

HEADQUARTERS DEPARTMENT OF THE ARMY Washington D.C., 8 November 1993

OPERATOR'S MANUAL FOR TRUCK, FORKLIFT: ADVERSE TERRAIN, 10,000 LB CAPACITY, M544E (NSN 3930-01-301-8250)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (*Recommended Changes to Publications and Blank Forms*), or DA Form 2028-2, located in the back of this manual, directly to: Commander, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 48397-5000. A reply will be furnished to you.

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This manual is designed to operate the M544E Forklift Truck

FEATURES OF THIS MANUAL:

- Bleed-to-edge Indicators on the cover and on the edge of the applicable manual pages provide quick access to chapters and sections most often used.
- WARNINGS, CAUTIONS, NOTEs, subject headings, and other important information are highlighted in BOLD print as a visual aid.

WARNING

A WARNING Indicates a hazard which can result In death or serious Injury.

CAUTION

A CAUTION is a reminder of safety practices or directs attention to usage practices that may result In damage to equipment.

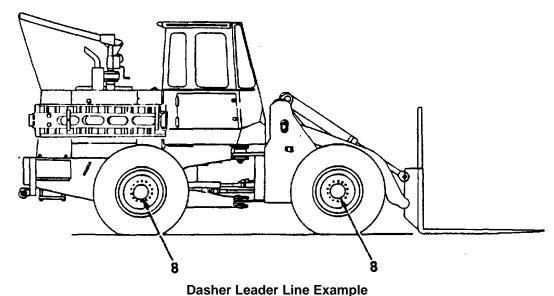
NOTE

A NOTE Is a statement containing Information that will make the procedure easier to perform.

• An alphabetized list of abbreviations and their meanings are Included in Chapter 1 for reference purposes.

HOW TO USE THIS MANUAL (Con't)

- Instructions are located together with illustrations that show the specific task on which the operator is working.
- Dashed leader lines used in illustrations indicate that called out items are not visible (i.e., they are located *within* the structure). The example illustrates that the drive axles (8) are located within the axle.



- Dasilei Leadei Lille Lxallipie
- An alphabetical index is provided at the end of the manual to assist in locating Information not readily found in the table of contents.
- Technical instructions Include metric units In addition to standard units. A metric conversion chart is provided on the Inside back cover.

FOLLOW THESE GUIDELINES WHEN YOU USE THIS MANUAL:

- Read through this manual and become familiar with its contents before attempting to operate this vehicle.
- A warning summary Is provided at the beginning of this manual and should be read before attempting to operate this vehicle.
- Within a chapter or section, headings are used to help group the material to assist in quickly finding tasks.

TA704469

FOR INFORMATION ON FIRST AID, REFER TO FM 21-11.

WARNING

CARBON MONOXIDE (EXHAUST GASES) CAN KILL!

Carbon monoxide is a colorless, odorless, deadly poisonous gas which, when breathed, deprives the body of oxygen and causes suffocation. Exposure to air containing carbon monoxide produces symptoms of headache, dizziness, loss of muscular control, apparent drowsiness, and coma. Permanent brain damage or death can result from severe exposure.

Carbon monoxide occurs in exhaust fumes of internal combustion engines. Carbon monoxide can become dangerously concentrated under conditions of inadequate ventilation. The following precautions must be observed to ensure safety of personnel when engine of forklift truck is operated for any purpose.

- (1) DO NOT operate forklift truck engine in enclosed areas.
- (2) DO NOT idle forklift truck engine with cab windows closed and without ventilator blower operating.
- (3) DO NOT drive forklift truck with inspection plates or cover plates removed.
- (4) BE ALERT at all times for exhaust odors.
- (5) BE ALERT for exhaust poisoning symptoms. They are:
 - Headache
 - Dizziness
 - Sleepiness
 - Loss of muscular control
- (6) If you see another person with exhaust poisoning symptoms:
 - Remove person from area.
 - Expose to fresh air.
 - Keep person warm.
 - Do not permit physical exercise.
 - Administer artificial respiration, If necessary.
 - Notify a medic.
- (7) BE AWARE: The field protective mask for chemical-biological-radiological (CBR) protection will not protect you from carbon monoxide poisoning.

The Best Defense Against Carbon Monoxide Poisoning Is Good Ventilation.

WARNING

BATTERIES

- Remove all jewelry such as rings, dog tags, bracelets, etc. If jewelry contacts battery terminal, a direct short will result, causing Instant heating of jewelry which will result in severe Injury to personnel.
- Battery gases can explode. DO NOT smoke or allow sparks or open flames near batteries. Wear safety glasses or goggles when checking batteries. Failure to follow this warning may result in death or serious Injury to personnel.
- Sulfuric acid contained in batteries can cause serious bums. If battery corrosion or electrolyte makes contact
 with skin, eyes, or clothing, take immediate action to stop the corrosive burning effects. Failure to follow
 these procedures may result in death or serious injury to personnel.
 - a. Eyes. Flush with cold water for no less than 15 minutes and seek medical attention immediately.
 - b. Skin. Flush with large amounts of cold water until all acid is removed. Seek medical attention as required.
 - c. <u>Internal</u>. If corrosion or electrolyte is Ingested, drink large amounts of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Seek medical attention Immediately.
 - d. <u>Clothing/Equipment</u>. Wash area with large amounts of cold water. Neutralize acid with baking soda or household ammonia.

WARNING

COMPRESSED AIR

Compressed air used for cleaning or drying purposes, or for cleaning restrictions, should never exceed 30 psi (207 kPa). Wear protective clothing (goggles/shield, gloves, etc.) and use caution to avoid injury to personnel.

WARNING

DIESEL FUEL HANDLING

- DO NOT smoke or permit any open flame In area of forklift truck while you are servicing diesel fuel system.
 Be sure hose nozzle is grounded against filler tube during refueling to prevent static electricity. Failure to follow this warning will result in injury to personnel or equipment damage.
- Diesel fuel Is combustible. DO NOT smoke or allow open flame near fuel tank. Failure to follow this warning will result in death or serious injury to personnel. If you are burned, Immediately seek medical aid.

WARNING

ENGINE OPERATION

Start engine only while properly seated on operator's seat, seatbelt fastened, cab door and cab right window latched in desired position, and mirror adjusted. Failure to follow this warning may result in Injury or death to operator or nearby personnel.

WARNING

EXHAUST PIPE AND MUFFLER

DO NOT touch hot exhaust pipe or muffler with bare hands. Severe Injury to personnel will result.

WARNING

FORKLIFT OPERATION

Never allow forks or load to contact power lines. If forklift truck must be operated in vicinity of power lines, follow these safety precautions. Failure to follow these procedures may result in death or serious injury.

- a. Contact power company and have all power lines and ground wires turned off.
- b. DO NOT allow any portion of equipment close to power lines.
- c. Know maximum height and reach of forklift truck and build a suitable barricade around all power sources.
- d. Warn all personnel in work area of power source and electrocution hazard.
- e. If contact with a power source does occur, DO NOT step off the forklift truck. Stay on the vehicle until power is turned off or equipment Is lowered and clear of power source.
- f. If fire or other conditions force operator to leave the forklift truck, Jump off and away keeping all parts of body clear of the equipment.

WARNING

ON-BOARD CRANE OPERATION

Crane Is heavy. Assistant Is required to raise or lower crane to various operating positions. Assistant may be required to help raise or lower load. Failure to follow this warning may result in injury to personnel.

WARNING

PARKING FORKLIFT TRUCK

DO NOT depend on direction selector lever alone to keep forklift truck from moving. ALWAYS apply parking brake. Failure to follow this warning may result in injury to personnel.

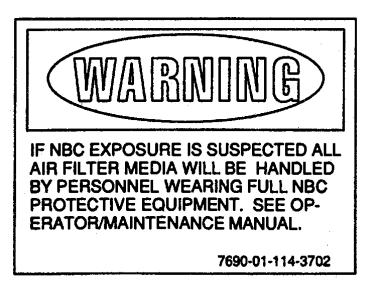
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WARNING

NBC EXPOSURE

If NBC exposure Is suspected, all engine air cleaner air filter media should be handled by personnel wearing protective equipment. Consult your NBC Officer or NBC NCO for appropriate handling or disposal procedures.



To order this NBC decal use:

National Stock Number (NSN) - 7690-01-114-3702 Part Number (PN) - 12296626 Commercial and Government Entity Code (CAGEC) - 19207

WARNING

PASSENGERS

DO NOT allow passengers to ride in cab or outside cab on forklift truck. Injury to personnel may result.

WARNING

PRESSURIZED COOLING SYSTEM

DO NOT remove radiator fill cap unless engine is cold. This is a pressurized cooling system and escaping steam, hot water, or coolant will cause serious burns.