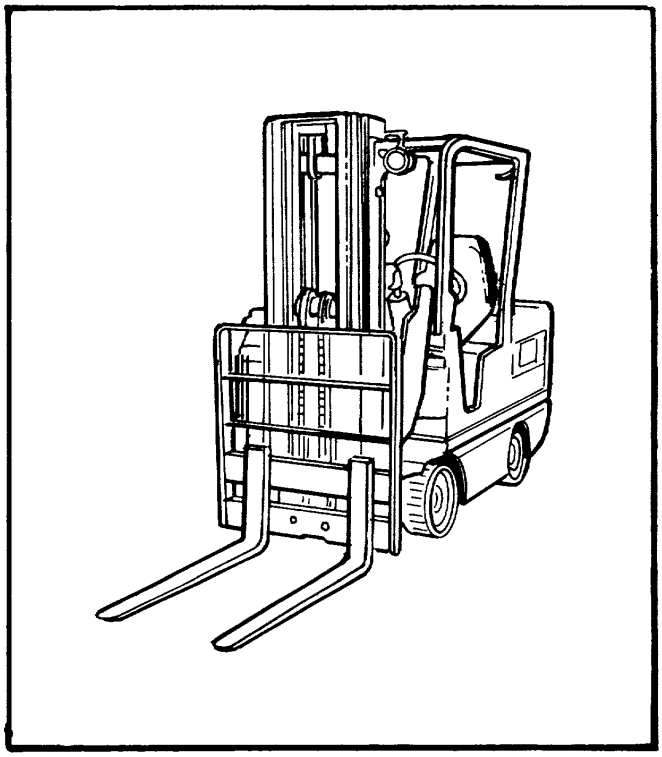
TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS INFORMATION)



OPERATING SECTION

OPERATOR AND ORGANIZATIONAL PMCS

TROUBLESHOOTING

PARTS

MAINTENANCE

APPENDIX B MAC

APPENDIX E EXPENDABLE SUPPLIES

TRUCK, FORKLIFT, ELECTRIC, FRONT/SIDELOADER, SRT, 4000/3000 LB CAPACITY, MHE 256, DREXEL MODEL NO. SL-44/3-ESS (EE), NSN 3930-01-123-1300

HEADQUARTERS, DEPARTMENT OF THE ARMY

APRIL 1984

TM 10-3930-652-14&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC. *2 April 1984*

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS INFORMATION)

TRUCK, FORKLIFT, ELECTRIC, FRONT/SIDELOADER, SRT, 4000/3000 LB CAPACITY ARMY MODEL MHE 256 DREXEL MODEL SL-44/3-EES(EE) NSN 3930-01-123-1300

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 direct to: Commander, US Army Tank-Automotive Command, ATTN: DRSTA-MB, Warren, MI 48090. A reply will be furnished to you.

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PREVENTIVE MAINTENANCE SECTION **Page**

TROUBLE SHOOTING SECTION

PARTS BREAKDOWN SECTION

MAINTENANCE SECTION

NOTE

This manual is published for the purpose of identifying an authorized commercial manual for the use of personnel to whom this Forklift Truck is issued.
Manufactured by:

Drexel Industries, Inc.
Horsham, PA 19044

Procured under Contract No. DTAAE07-81-C-6214

This technical manual is an authentication of the manuafacturer's commercial literature and does not conform with the format and content specified in AR 310-3, Military Publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment.

SCOPE

1. Type of Manual. Operator's, organizational, direct support and general support maintenance manual, including repair parts list.

2. Model Number and Equipment Name. MHE 256, front/sideloader, 4000/3000 lb capacity, solid rubber tire forklift truck.

3. Purpose of Equipment. The front/sideloader is intended to be used for stacking, moving cargo in and around warehouses, loading platforms and docks. It is also intended for moving cargo in and out of highway trailers and railroad cars. Trucks are intended for operation over paved, semi prepared and other hard surfaces for short distances.

MAINTENANCE FORMS, RECORDS AND REPORTS Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR) If your front/sideloader forklift truck needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at Commander, US Army Tank-Automotive Command, ATTN: DRSTA-MP, Warren, MI 48090. We'll send you a reply.

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE Refer to TM 750-244-6.

PREPARATION FOR STORAGE OR SHIPMENT

1. Administrative Storage. Refer to page iii of this section of the manual and to TM 740-90-1.

2. Shipment. Refer to TB 749-97-2 for procedures covering preservation of equipment for shipment. General procedures for shipment are found in FM 55-15, with more specific information in TM 55-2200-001-12 for rail and TM 55-450 series for air transport.

PERSONNEL

Military Occupational Specialty (MOS). Qualitative and Quantitative Personnel Requirements Information (QQPRI) will be disseminated in accordance with AR 611-1.

The following MOS can operate and maintain the forklift:

(a) Operator, 57H and 76V

(b) Organizational Maintenance, 63B

(c) Direct Support and General Support, 63W, 52D, and 63G

TRAINING

1. New Equipment Training Team (NETT) are available to major field commands. Request for NETT should be addressed to: Commander, US Army Tank Automotive Command, ATTN: DRSTA-MLT, Warren, MI 48090. Training teams should be requested

TRAINING Cont.

only when trained personnel are not available in the Command to operate and/or maintain the truck.

2. New Materiel Introductory Team (NMIT) are available. Major field commands requiring briefings to Command Staff and users should forward their requests to Commander, US Army Tank-Automotive Command, ATTN: DRSTA-MLT, Warren, MI 48090. Receiving Commands are responsible for NMIT itinerary.

LOGISTIC ASSISTANCE US Army Tank-Automotive Command Field Maintenance Technicians stationed at CONUS and OCONUS installations are available to furnish onsite training and or technical assistance. Assistance may be obtained by contacting the appropriate Logistics Assistance Office (LAO) listed in Appendix B, AR 700-4.

WARRANTY INFORMATION

1. Do not attempt to conduct negotiations directly with the manuafacturer in the event of warranty dispute. These negotiations are the reponsibility of the contracting officer.

2. The MHE 256, front/sideloader, 4000/3000 lb capacity solid rubber tire forklift truck are warranted by Drexel Industries, Inc. for 15 months or 1500 hours of operation after acceptance, whichever comes first. It starts on the date, found in block 23, DA Form 2408-9, in the logbook. Report all defects in material or workmanship to your supervisor, who will take appropriate action through your organizational maintenance shop.

3. Drexel Industries, Inc. is required to extend to the Government the full benefits of the warranties granted by suppliers of major assemblies or components used in the end item.

4. If a Drexel Industries Service Agency is not available, CONUS units should notify the National Maintenance Point (NMP) by telephone, AUTOVON 786-7363. OCONUS units should follow warranty reporting procedures in TM 38-750.

5. All warranty claims, whether they are settled locally with a manufacturer's representative or processed through normal Army maintenance channels, must be reported to: Commander, US Army Tank-Automotive Command, ATTN: DRSTA-MP, Warren, MI 48090

WARRANTY

Drexel Industries, Inc. ('"Drexel") warrants for 15 months or 1500 hours of operation after acceptance, whichever occurs first, all supplies furnished under this contract will be free from defects in design, material, and workmanship and all other requirements of the contract as applicable. If the Government, prior to placing vehicles in service, elects to place quantities of such newly delivered vehicles in Government depot storage, the time period of the warranty will not begin to run for such vehicles until each vehicle is withdrawn from Government storage or until six months from the date of acceptance, whichever occurs first provided that the Government, prior to placing in storage of each new vehicle, notifies Drexel of the date in and the date of withdrawal and certifies that the units are stored in accordance with specifications for the storage of forklifts and batteries.

Using activity personnel should be advised that sometimes, even though the majority of repairs are covered by the warranty, there may be a small charge for normal maintenance items. Further, the cause of damage or repairs may later be determined by the dealer or factory to be directly related to misuse, neglect, alterations, or lack of proper maintenance and/or service. In either of these cases, the Government may be obligated to pay for teardown or inspection services, even though the repairs are no longer desired.

NOTIFICATION

At the option of the Government: The Government shall deliver the vehicle to the local Drexel facility or dealership for Drexel corrective warranty repair or replacement, or the Government shall notify Drexel Industries, Inc. in writing (Maple Avenue, Horsham, PA 19044), or by telephone ((215)4-672-2200), or by telex (902020), of any breach of the warranty provisions promptly within 10 days after the receipt of notice Drexel will submit to the Contracting Officer a written recommendation as to the corrective action required to remedy. All remedies and notifications shall be processed in accordance with the terms of the contract.

STORAGE

Forklifts

Storage conditions must be indoors, with a minimum temperature of +35°F. and a maximum of +115°F. and 90% max. relative humidity conditions, also units shall be stored per MIL-Std 162D (live storage) appendix I for storage conditions with the weight of vehicle removed from tires (i.e., units "blocked" with tires 1/8" to 1/4" off floor).

Batteries

Storage conditions must be indoors, with a minimum temperature of +35°F. and should not exceed +95°F. and 90% max. humidity. Batteries are shipped charged and dry, with the electrolyte separate. It is recommended that the storage period does not exceed 12 months, or the battery life cannot be expected to achieve a normal life cycle (i.e., battery plates will experience damaging sulphation after one year).

PUTTING TRUCK INTO SERVICE

1. Open the hydraulic door (left side) and remove the manuals in the plastic bag. Read the manual thoroughly before operating the truck.

2. Cut the wire securing the key.

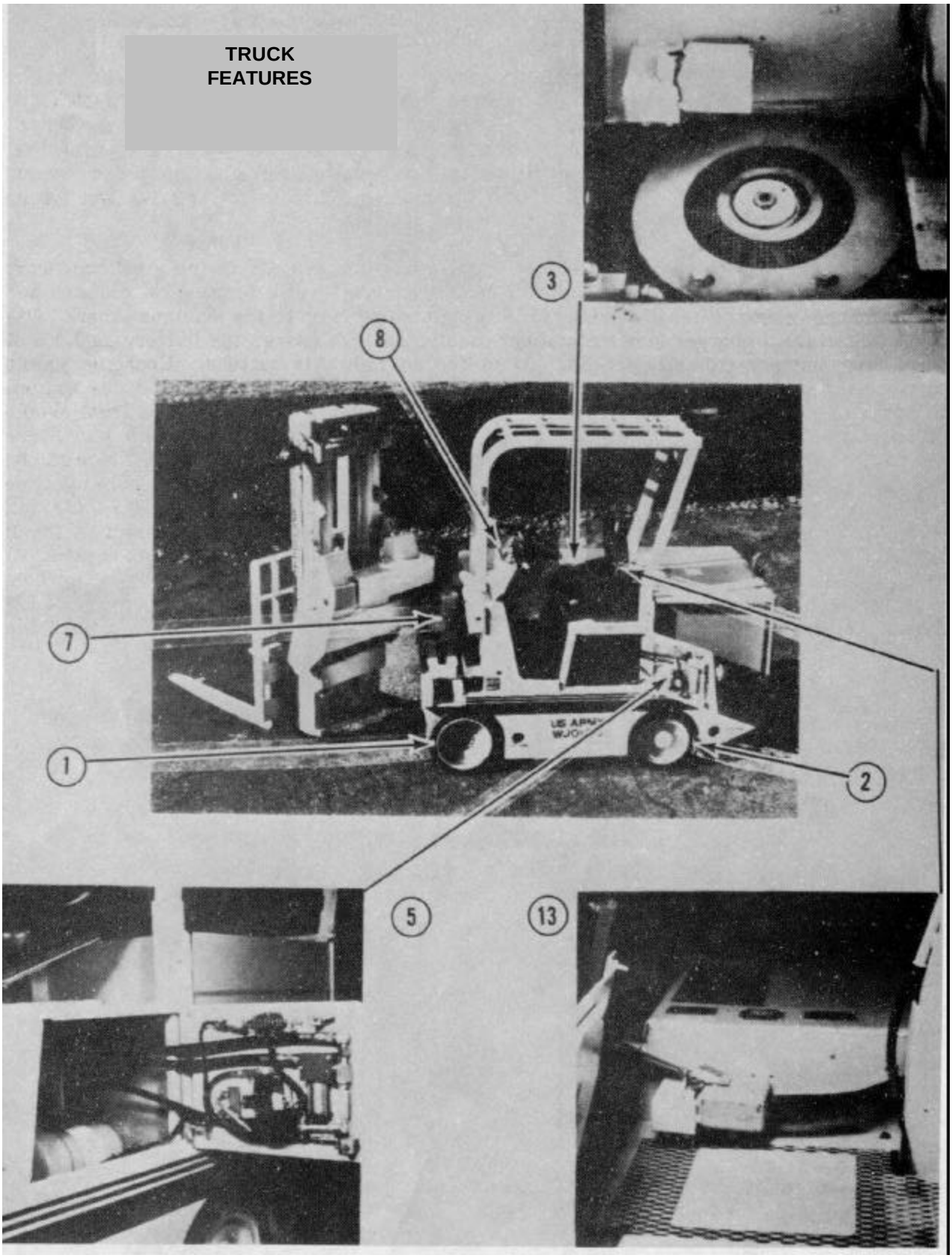
3. Check hydraulic oil level.

4. For batteries which are received charged and wet, remove each vent cap and check electrolyte levels. Ambient temperature should be as close as possible to 77°F. (25°C) or the apparent level may be misleading. In cold weather, batteries may look dry. Do not add water until an accurate estimate of electrolyte level has been made. Ensuring that the electrolyte level is at least above the plates, connect the battery to the recommended charger for six (6) hours. At the end of this period, recheck electrolyte level and top up with water if necessary.

5. For batteries which are received dry-charged, fill the cells to the maximum level with electrolyte of a specific gravity of 1.260. Recheck level after several minutes and add additional electrolyte, if necessary, to bring the levels up to the maximum mark. Use a **constant current charger** (not the charger usually used) to charge the battery at 3.5% of the 6-hour battery capacity, or 38.5 Amps for an 1100 AH battery. Charging should continue for a minimum of 150 hours and should terminate when specific gravities and on-charge cell voltages have remained constant for 3 hours. Electrolyte temperature should be about 125°F. (52°C) for at least half the charge. If this temperature cannot be reached, the charging rate should be increased. If this is done, the charging times can be reduced. If charging current is increased to 150% of normal, minimum charging time should be 110 hours minimum. If charging current is increased to 200% of normal, charging time will be 90 hours. Do not allow electrolyte temperature to exceed 1300°F (54°C). Check levels continually. Add 1.260 specific gravity electrolyte as needed. If specific gravities at the end of the charge exceed 1.290, dilute with water. Continue charge for two hours. If specific gravity is below 1.280, add 1.400 electrolyte until the proper specific gravity of 1.280-1.290 is reached. Continue for two hours. Be certain that vented cell caps are installed.

RESHIPMENT

Secure all loose items. Be certain that all fasteners are tight, doors closed, status of battery, hydraulic fluid, etc. is clearly marked.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