

**TRUCK, FORKLIFT, DED, PNEUMATIC TIRE,  
ARTICULATED FRAME STEER, 4,000 LB CAPACITY  
ROUGH TERRAIN, ARMY MODEL MHE 237  
(J.I. CASE MODEL M4K)  
(NSN 3930-01-076-4237)**

**References:** TM 10-3930-638-10, TM 10-3930-638-24, TM 10-3930-638-24P, FM 9-207, and TM 9-238

**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this publication. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Submit your DA Form 2028 (Recommended Changes to Equipment Technical Publications), through the Internet, on the Army Electronic Product Support (AEPS) web-site. The Internet address is <https://aeprs.ria.army.mil>. The DA Form 2028 is located under the Public Applications section in the AEPS Public Home Page. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, fax or E-mail your letter or DA Form 2028 direct to: AMSTA-LC-LMPP/TECH PUBS, TACOM-RI, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. The E-mail address is ROCK-TACOM-TECH-PUBS@conus.army.mil. The fax number is DSN 793-0726 or Commercial (309) 782-0726.

\*This LO supersedes LO 10-3930-638-12 dated 25 March 1991.

**DISTRIBUTION STATEMENT A** - Approved for public release; distribution is unlimited.

**NOTICE** - Copy of this lubrication order will remain with the equipment at all times; instructions contained herein are mandatory.

Hard time intervals and the related man-hour times are based on normal operation. The man-hour time specified is the time you need to do all the services prescribed for a particular interval. Change the hard time interval if your lubricants are contaminated or if you are operating the equipment under adverse operating conditions, including dust, sand, and longer than usual operating hours. The hard time interval may be extended during periods of low level activity.



**WARNING**

Dry cleaning solvent P-D-680 type III is toxic and flammable. Wear protective goggles and gloves and use only in a well-ventilated area. Avoid contact with skin, eyes, and clothes and do not breathe vapors. Do not use near open flame or excessive heat. The solvent's flash point is 200°F (94°C). If you become dizzy while using dry cleaning solvent, get fresh air immediately and get medical help. If solvent contacts eyes, wash your eyes and get medical aid immediately.

Wipe grease fittings clean before lubricating. Clean parts with dry cleaning solvent, type III or equivalent. Wipe dry before lubricating.

Dashed arrows indicate that lubrication is required on both sides of the equipment.

**Maintenance Levels.** The lowest level of maintenance authorized to lubricate a point is indicated on the Lubrication Chart by either Operator/Crew (C) and Organizational Maintenance (O).

For lubrication before and after fording, refer to TM 9-238.

Interval	Man-Hour
Daily	0.5
Weekly	0.5
Annually	0.1
300 Hours	3.0
900 Hours	4.0

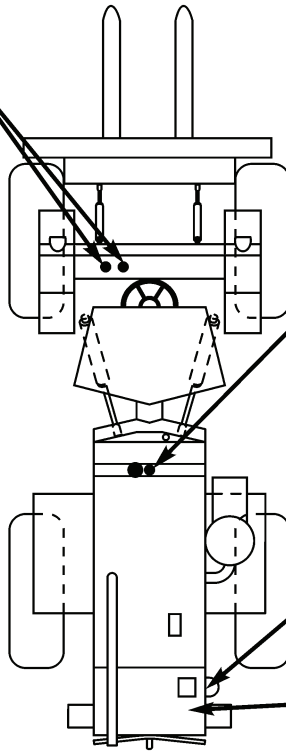
**LUBRICANT • INTERVAL**

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**Brake Pivot Shafts  
(C)**

**GAA**

**D**



**D OE/HDO**

**Hydraulic Reservoir  
Fill (O)  
Check level and add  
if necessary  
(See note 2)**

**D DF**

**Fuel Tank Fill (C)  
Capacity 27 gallons  
(102 liters)  
Check and add if  
necessary**

**D**

**Coolant Level (C)  
Check level and add  
if necessary**

**TOP VIEW**

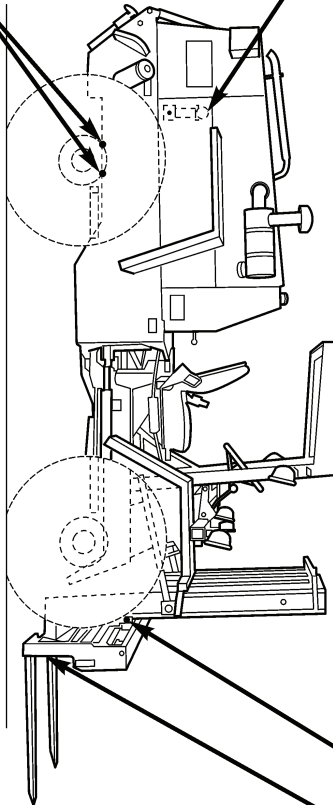
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Rear Axle Trunnion Pin (C) GAA D

D OE/HDO Engine Dipstick and Fill (C)  
Check level and add if necessary



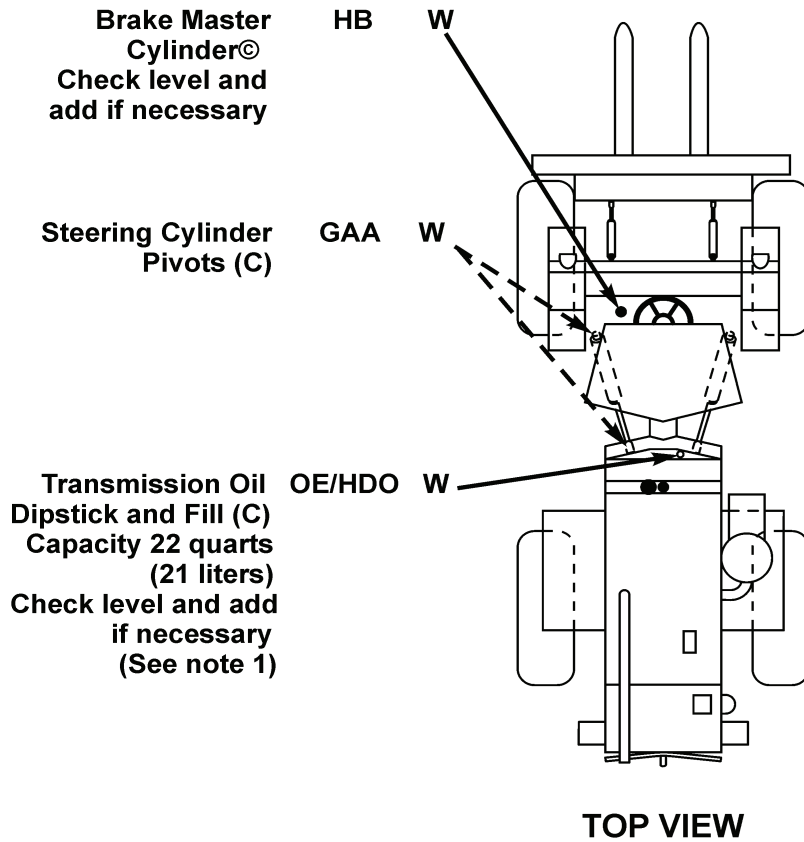
SIDE VIEW

D GAA Rotation Bearing (C)  
D GAA Carriage Travel Bar (C)

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**Brake Master  
Cylinder©**  
Check level and  
add if necessary

HB

W

**Steering Cylinder  
Pivots (C)**

GAA

W

**Transmission Oil**  
Dipstick and Fill (C)  
Capacity 22 quarts  
(21 liters)  
Check level and add  
if necessary  
(See note 1)

OE/HDO

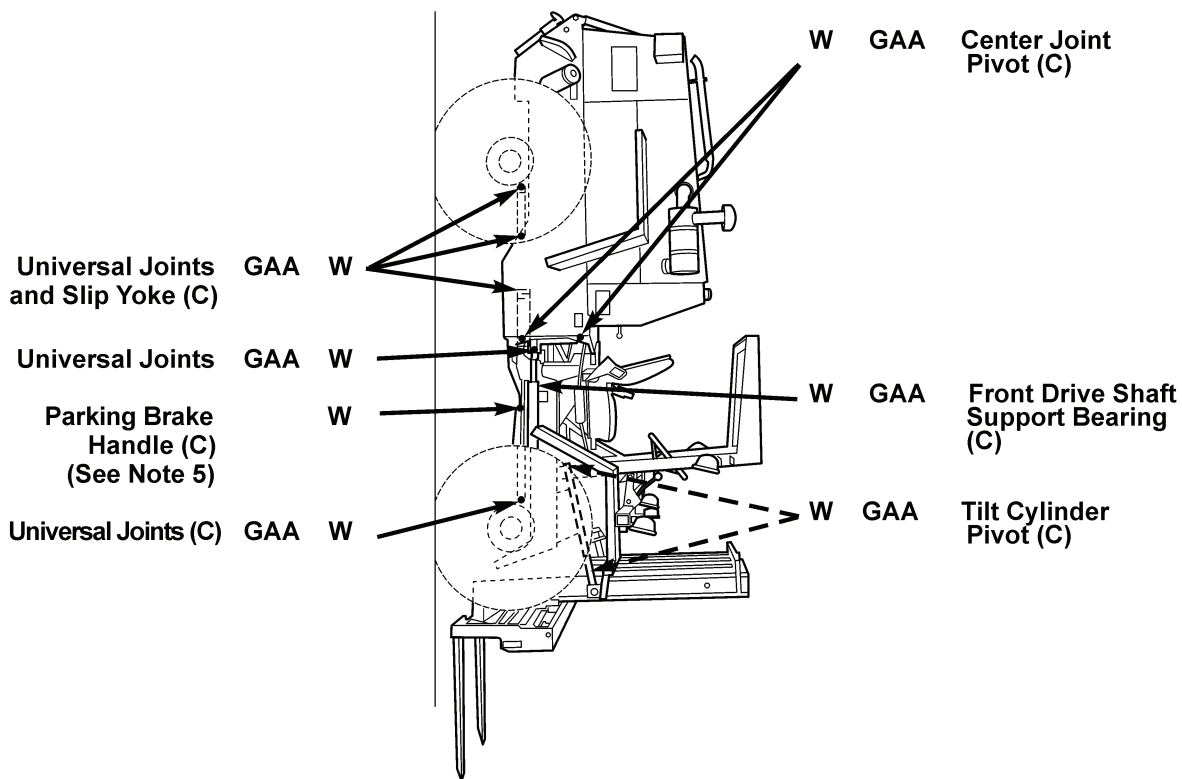
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**TOP VIEW**

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SIDE VIEW

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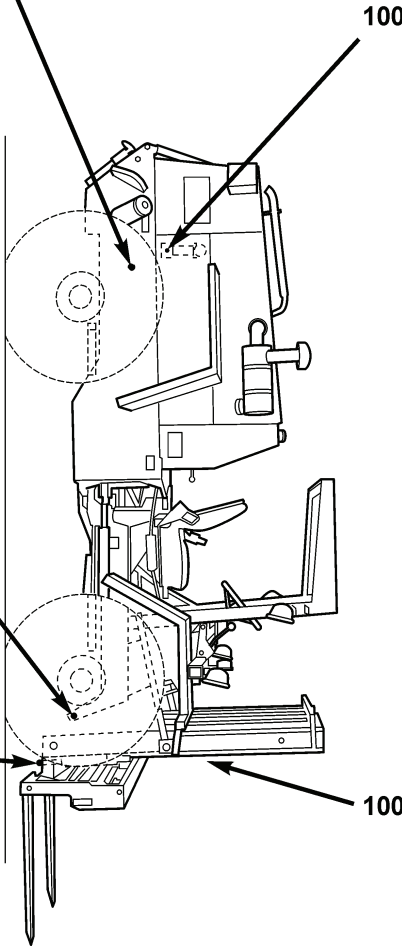
Engine Crankcase  
Drain (O)  
Capacity 7 quarts  
(6.6 liters)  
10 quarts (9.5 liters)  
for replacement  
engine  
(See note 3)

Engine Oil Filter (O)  
Replace at each oil  
change  
(See note 3)

Mast Pivot (C) GAA 100

Rotation Cylinder  
Pivot Point (C) GAA 100

100 GAA Rotation Cylinder  
Pivot Point (C)



**SIDE VIEW**

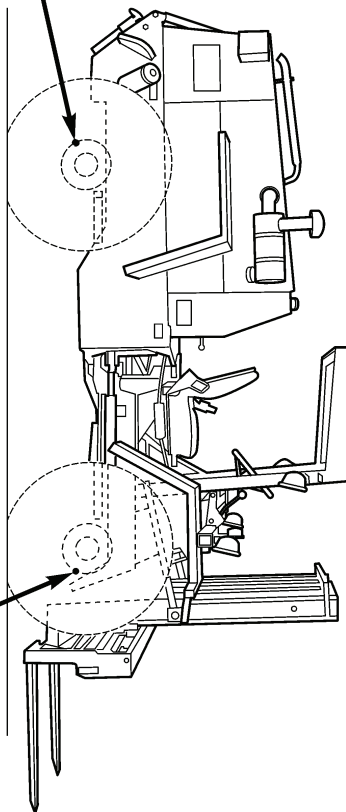
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Differential Oil  
Front and Rear (O)  
Check level and add  
if necessary  
(See note 4)

GO M



Differential Oil  
Front and Rear (O)  
Check level and add  
if necessary  
(See note 4)

GO M

SIDE VIEW

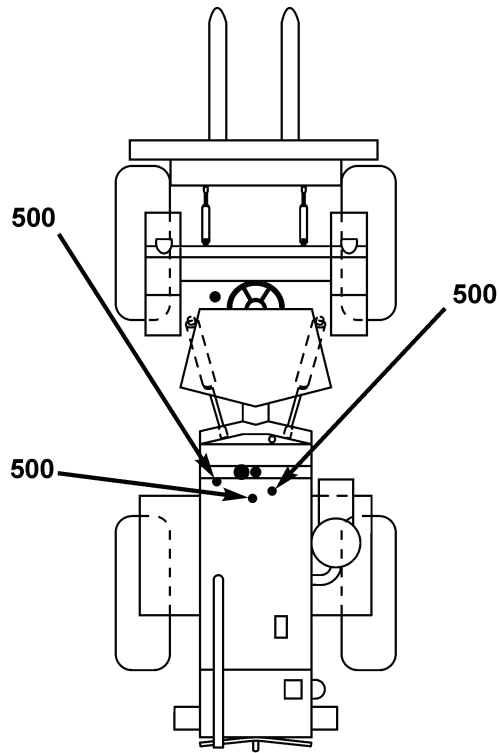
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Transmission Drain  
(O)  
(See note 1)

Transmission  
Suction Screen  
Assembly (O)  
Remove and clean  
in solvent  
(See note 1)



Transmission Air  
Breather (O)  
Clean at each trans-  
mission oil change  
(See note 1)

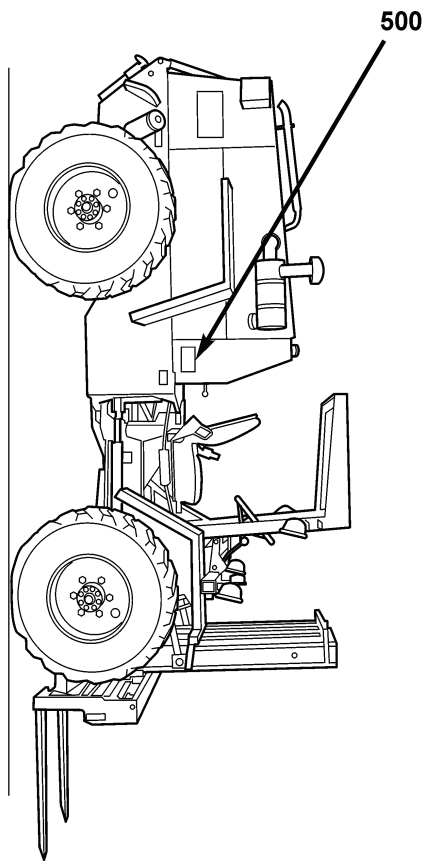
TOP VIEW

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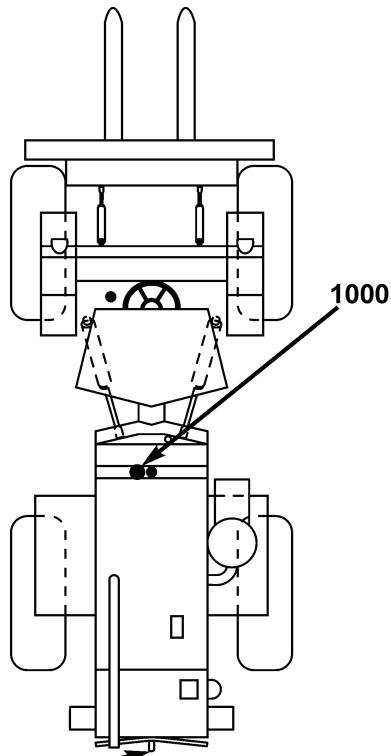
Transmission Oil  
Filter (O)  
Replace at each  
transmission oil  
change  
(See note 1)

SIDE VIEW

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**Hydraulic Reservoir Breather (O)  
Replace at each hydraulic reservoir oil change  
(See note 2)**

**Pintle Hook (C) GAA A TOP VIEW**

444-0178

KEY

LUBRICANT	COMPONENT	EXPECTED TEMPERATURES*			INTERVALS
		ABOVE +32°F (0°C)	+40°F TO - 10°F (+4°C TO - 23°C)	-0°F TO - 65°F (-18°C TO 54°C)	
Oil, Engine OE/HDO (MIL-PRF-2104) Lubricating Oil, Tactical  OEA (MIL-L-46167)  GO (MIL-PRF-2105)	Engine Crank- case	OE/HDO 30	OE/HDO 10	OEA	D - Daily W - Weekly A - Annually M - Monthly 100 - 100 Hours 500 - 500 Hours 1000 - 1000 Hours  For Arctic Operation, Refer to TM 9-207.
	Hydraulic Res- ervoir	OE/HDO 10			
	Transmission	OE/HDO 10			
	Front and Rear Differential	GO-80W-90			
	Mast Chains Parking Brake Handle	OE/HDO 30			
Fuel, Oil, Diesel DF (VV-F-800)	Fuel Tank	DF-2	DF-1	DF-A	
Brake Fluid HB (SAE J1703c)	Brake Master Cylinder	ALL TEMPERATURES			
Grease, Automotive and Artillery GAA (MIL-G-10924)	Rotating Bear- ing and Pintle Hook				

## NOTES:

1. **Transmission.** Drain only when oil is hot. After draining oil, remove screen assembly and clean using cleaning solvent. Reinstall screen assembly using new gasket, tighten to 10-15 lb-ft (14-20 Nm). Remove and clean transmission breather using cleaning solvent. Tighten new oil filter to 20-25 lb-ft (27-34 Nm). Check oil level with engine at idle speed and transmission oil warm.
2. **Hydraulic Reservoir.** Check level daily and add OE as necessary. Clean area around filler cap thoroughly before removing. Drain only when oil is hot. Clean suction screen and replace breather at each oil change.
3. **Engine Crankcase.** Drain only when oil is hot. Refill to FULL mark on dipstick. Operate engine for a few minutes and recheck level. Add OE if necessary. Replace oil filter at each oil change.
4. **Differential (Front And Rear).** Drive vehicle for 10 minutes to warm lubricant. Clean area around fill and drain plugs before removing. After draining, install drain plug and fill to fill plug opening with GO then install fill plug.
5. **Parking Brake Handle.** Oil can point. BLOCK WHEELS. Release brake and apply two drops on each side of weldment.

By Order of the Secretary of the Army:

GEORGE W. CASEY, JR.  
General, United States Army  
Chief of Staff

Official:



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Administrative Assistant to the  
Secretary of the Army  
0818203

**DISTRIBUTION:** To be distributed in accordance with the initial distribution requirements for IDN: 252914, requirements for LO 10-3930-638-13.

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