

LUBRICATION ORDER
1 July 1985

TRUCK TRACTOR, YARD TYPE, 43500 LB GVW, DED, 4X2
M878A1 (2320-01-121-2102)

Reference TM 9-2320-285-10, TM 9-2320-285-24, TM 9-2320-285-24P

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 interval if your lubricants are contaminated or if you are operating the equipment under adverse operating conditions, including long-than-usual operating hours. You may extend the interval during periods of low activity, but you must take adequate preservation precautions. Clean fittings before lubricating. Clean parts with solvent, dry cleaning (SD-2). Dry before lubricating. Dashed arrow points indicate lubrication on both sides of the equipment.

The lowest level of maintenance authorized to lubricate a point is indicated by one of the following symbols as appropriate: Operator/crew (C); and Organizational Maintenance (O).

You can improve this publication by calling attention to errors and by recommending improvements and by stating your reasons for the recommendations. Your letter or DA Form 2028, Recommended Changes to Publications and Forms should be mailed directly to Commander, US Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 48397-5000. A reply will be furnished directly to you.

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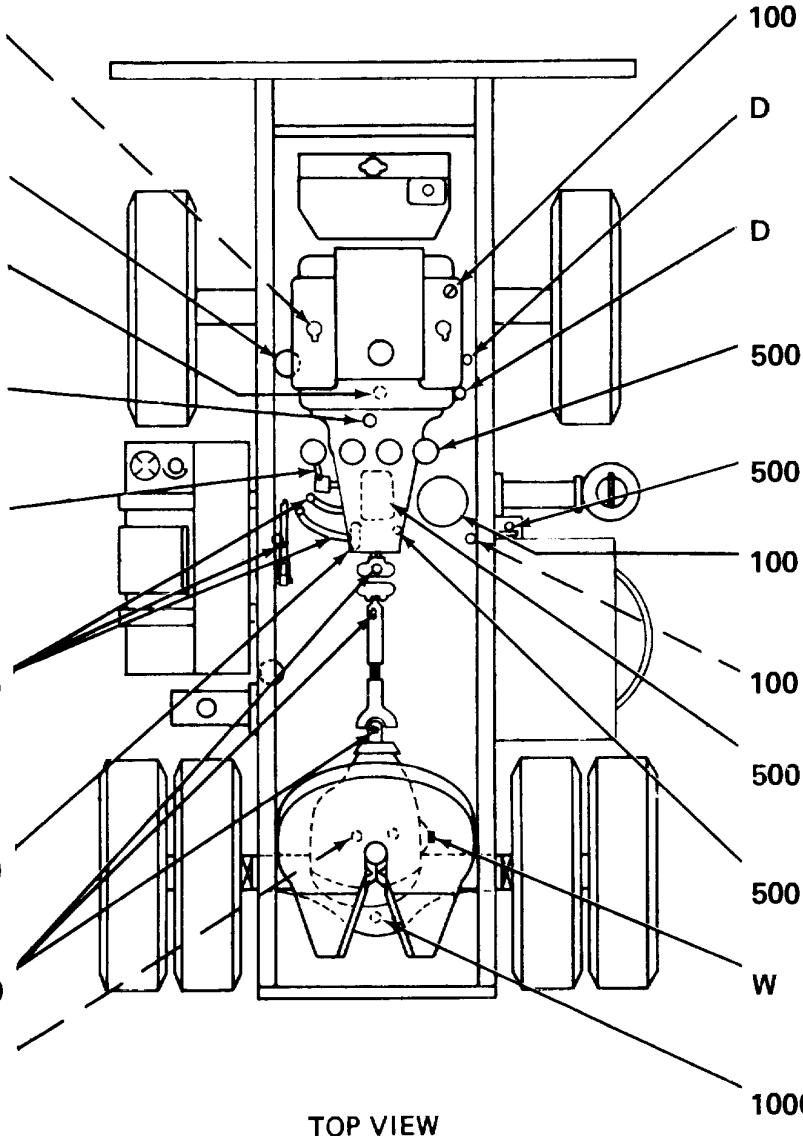
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LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

- Rocker Arm Cover Breathers
Remove, clean, dry, (O) and install
- Engine Oil Filter (O) (See note 1)
- Engine Crankcase Drain (O) (See note 1)
- Transmission Vent (O) Remove, clean, dry, and install
- Transmission Modulator Cable (O) Apply at engine end of cable; use Dexron-II fluid only
- Gear Shift, Control Valve, and Speedometer Cables (O) Grease both ends of cables
- Transmission Governor Filter (O) (See note 3)
- Universal Joints and (O) Slip Yoke
- Fifth Wheel Jaw Pins (C) 2 oil can points

- SD-2 500
- 100
- 100
- SD-2 500
- FTD 500
- GIA 500
- 500
- GAA 500
- OE 50

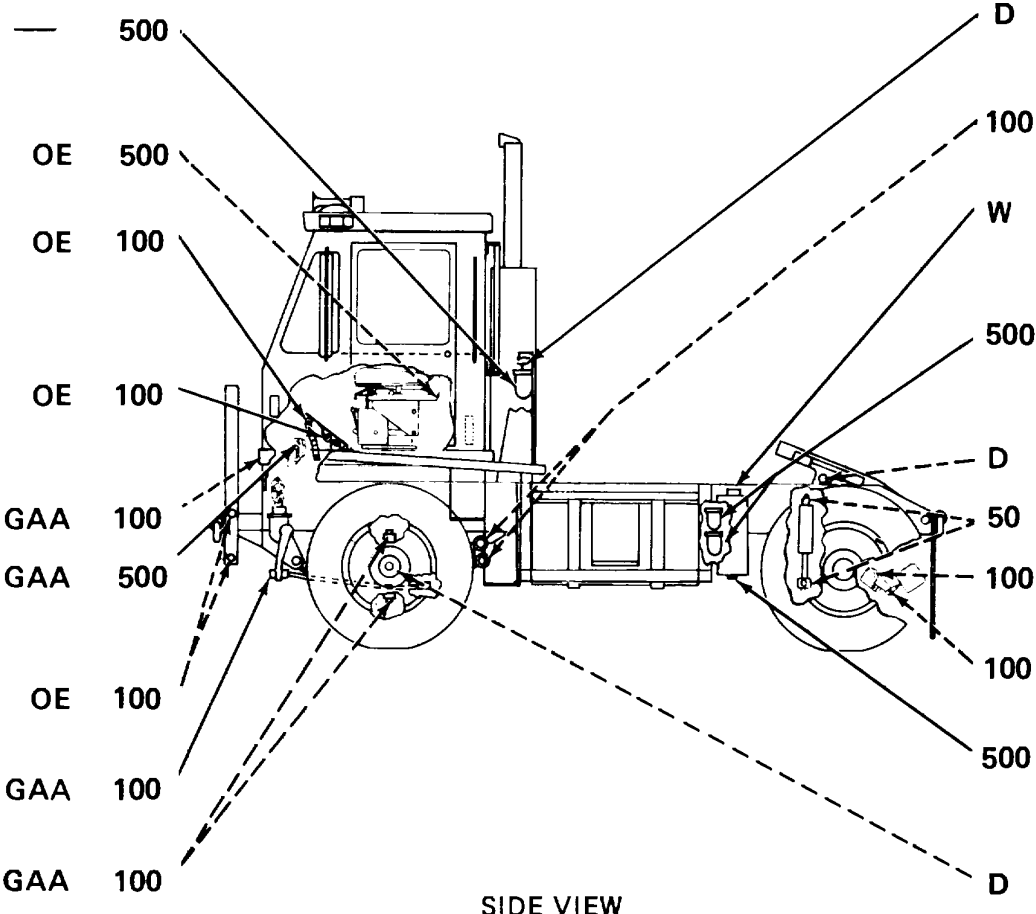


- 100 OE Engine Crankcase Fill (See note 1) (C)
- D — Engine Oil Level Dipstick Check level (C)
- D FTD Transmission Dipstick and Fill (See note 3) (C)
- 500 — Transmission External Fluid Filter (See note 3) (O)
- 500 FTD Cab Tilt Reservoir Fill (See note 4) (O)
- 100 — Engine Oil Filter Pack and Drain (See note 1) (O)
- 100 GAA Boom Pivot Pins 2 Fittings (O)
- 500 — Transmission Sump Fluid Filter (See note 3) (O)
- 500 FTD Transmission Drain (See note 3) (O)
- W GO Differential Check and Fill (See note 2) (O)
- 1000 GO Differential Drain (See note 2) (O)

LUBRICANT • INTERVAL

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- Power Steering Oil Filter (O) (See note 7) — 500
- Seat End Caps (O) 2 oil can points OE 500
- Accelerator Pedal Hinge, Roller, and Shaft (O) 3 oil can points OE 100
- Brake Pedal Hinge and Roller (O) 2 oil can points OE 100
- (O) Cab Pivot Pins GAA 100
- Steering Universal Joints and Slip Yoke (O) 3 Fittings GAA 500
- Grille Guard Pins (C) 4 oil can points OE 100
- Drag Link Sockets (O) 2 Fittings GAA 100
- Front Axle Kingpins (O) 4 Fittings GAA 100



SIDE VIEW

- D OHA Power Steering Reservoir Dipstick and Fill (See note 7) (C)
- 100 GAA Spring Pins 6 Fittings (O)
- W OHA Hydraulic Reservoir Fill (See note 6) (C)
- 500 — Hydraulic Oil Filters (See note 6) (O)
- D GAA Fifth Wheel (C)
- 50 GAA Lift Cylinders (O)
- 100 GAA Slack Adjuster Pivots (O)
- 100 OE Brake Clevis 2 oil can points (O)
- 500 — Hydraulic Reservoir Drain (See note 6) (O)
- D GO Front Axle Hubs (See note 5) (C)

TOTAL MAN-HR		TOTAL MAN-HR	
INTERVAL	MAN-HR	INTERVAL	MAN-HR
D	0.4	100	2.3
W	0.5	500	2.7
50	0.3	1000	0.5

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KEY

LUBRICANTS		REFILL CAPACITY' (APP)	EXPECTED TEMPERATURES			INTERVALS	
			Above +32 °F	+40 °F to-10 °F	0 °F to-65 °F	SYMBOL	INTERVAL
OE (MIL-L-2104)	Oil, engine Engine crank-case	16 qts	OE-40	OE-30	OES Oil, sub-zero (MIL-L-10295)	D	-Daily
	Oil can points	As req.				OE-10	W
GO (MI L-L-2105)	Oil, hypoid gear Differential	38 pts	GO-140	GO-85W/140	GO-80W/90	50	-50 hours
	Front axle hubs	1-1/2 pts				GO-80W/90	100
OHA (MIL-H-5606)	Hydraulic fluid Hydraulic reservoir	10 gals	ALL TEMPERATURES			100	-100 hours
	Power steering reservoir	4 qts				500	-500 hours
GAA (MIL-L-10924)	Grease, automotive and artillery	As req.				1000	-1000 hours
GIA (MIL-G-23827)	Grease, aircraft and instrument	As req.					
SD-2 (P-D-680)	Solvent, dry cleaning	As req.					
FTD (GM 6137-M)	Fluid, Dexron-II Transmission	16 qts					
	Cab tilt pump	2 qts					
	Modulator cable	As req					

LUBRICATION ORDER

NOTES

1. ENGINE CRANKCASE AND OIL FILTERS.

Check daily for level between ADD and FULL marks on dipstick. Add oil (OE) as required. Drain crankcase and filter pack only when oil is hot. Refill to FULL mark on dipstick. Operate engine for a few minutes, stop engine, and recheck level. Add OE if necessary. Replace engine oil filter and filter pack at each oil change.

2. DIFFERENTIAL AND REAR AXLE.

Drive vehicle for 10 minutes to warm lubricant. Clean area around fill and drain plugs with solvent (SD-2) before removing. Inspect magnetic end of drain plug. If metal chips are found, notify direct support maintenance personnel. Clean and install drain plug. Fill with lubricant (GO) to fill plug opening and install fill plug. Alternately raise axle ends several inches with jack to lubricate hubs. Drive vehicle for 10 minutes and recheck level. Add GO if necessary.

3. TRANSMISSION FLUID AND FILTERS. Check daily for level between ADD and FULL marks on dipstick with engine idling, transmission in neutral, and fluid warm. Add Dexron-II fluid (FTD) as required. Remove drain plug only when fluid is hot. Install drain plug with washer and tighten to 15-20 pounds foot. Remove pan and inspect drained fluid and inside of pan. If metal chips or engine coolant are found, notify direct support maintenance personnel. Replace transmission governor, sump, and external fluid filters at each oil change. Tighten pan and sump filter capscrews to 10-15 pounds foot. Refill with 15 quarts Dexron-III (FTD), start engine, and shift through all ranges. Shift to neutral, check level, and fill to ADD mark. Drive vehicle to warm fluid and recheck level. Add fluid to FULL mark.

4. CAB TILT RESERVOIR. Lower cab fully, remove fill plug, and check level. Add Dexron-II fluid (FTD) to 1/4-inch below fill plug opening. Install fill plug. Fluid drain and refill not required.

5. FRONT AXLE HUBS. Check daily for lubricant at OIL LEVEL mark in sight glass. Pull out rubber plug, add lubricant (GO) to OIL LEVEL mark as necessary, and push in rubber plug.

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6. HYDRAULIC RESERVOIR AND FILTERS.

Check weekly for level at reservoir screen with oil warm and fifth wheel lowered fully. Add oil (OHA) as required. Drain reservoir only when oil is hot. Inspect magnetic end of drain plug. If metal chips are found, notify direct support maintenance personnel. Clean drain plug with solvent (SD-2), dry, coat threads with sealant (MIL-STD-46163), and install. Replace hydraulic oil filters at each oil change. Refill with OHA to level of screen. Open bleed valve, raise and lower fifth wheel several times to purge air, and close bleed valve. Lower fifth wheel fully and recheck level. Add OHA if necessary.

7. POWER STEERING RESERVOIR AND FILTER.

Check daily for level at FULL mark on dipstick with oil warm and engine off. Add oil (OHA) as required. To drain, disconnect hose at power steering gear. Replace power steering oil filter at each oil change. Refill through dipstick opening to FULL mark on dipstick. Start engine and turn steering wheel several times. Stop engine and recheck oil level. Add OHA if necessary.

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

BY ORDER OF THE SECRETARY OF THE ARMY:

John A. Wickham, Jr.
General, United States Army
Chief of Staff

OFFICIAL:

DONALD J. DELANDRO
Brigadier General, United States Army
The Adjutant General

DISTRIBUTION:

To be distributed in accordance with DA Form 12-25A, Operation, Organizational, Direct and General Support Maintenance requirements for Truck Tractor, Yard Type, 4x2, M878(w/5th Wheel).

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BE EXACT... PIN-POINT WHERE IT IS

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TABLE NO.

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

TEAR ALONG PREPARED LINE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SIGN HERE:

DA FORM 2028-2
1 JUL 79

PREVIOUS EDITIONS ARE OBSOLETE.

P.S.—IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

