

---

**TRUCK, LIFT, FORK; POWER SHIFT, GED; 6,000 LB  
CAPACITY (ALLIS-CHALMERS MODEL F60-24PS,  
ARMY MODEL MHE-205) (NSN 3930-00-935-7856)  
100-INCH LIFT (NSN 3930-00-935-7855) 128-INCH  
LIFT AND (NSN 3930-00-935-7857) 168-INCH LIFT**

Reference: TM 10-3930-606-15, and FEDERAL SUPPLY CATALOG C9100-IL.

---

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 longer-than-usual operating hours. The hard time interval may be extended during periods of low activity. If extended, adequate preservation precautions must be taken.

**WARNING**

Dry cleaning fluid is flammable. Do not use near a flame or excessive heat. Use only with adequate ventilation. Avoid prolonged breathing of vapors and minimize skin contact.

Clean parts or fittings with dry cleaning solvent (SD), Type II or equivalent. Dry before lubricating. Dotted arrow shafts indicate lubrication on both sides of equipment. A dotted circle indicates a drain below. Relubricate all items found contaminated after fording or washing.

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).

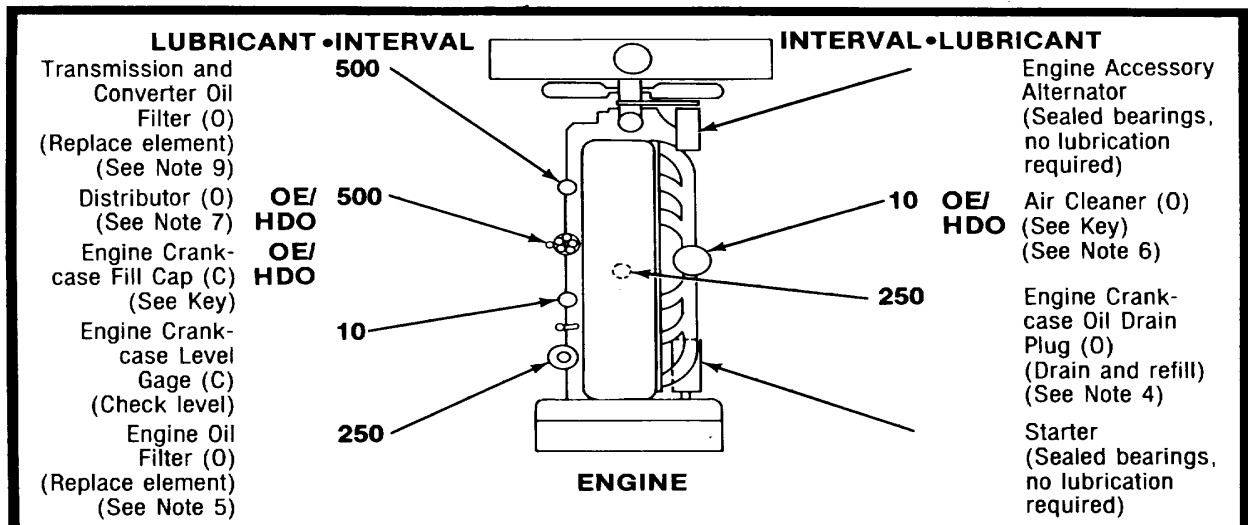
**Reporting errors and recommending improvements.** You can help improve this manual. If you find any mistakes, or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Commander, US Army Tank-Automotive Command, ATTN: DRSTA-MB, Warren, MI 48090. A reply will be furnished to you.

\*The time specified is the time required to perform all services at the particular interval.

*TOTAL MAN-HOURS		*TOTAL MAN-HOURS	
INTERVAL	MAN-HOURS	INTERVAL	MAN-HOURS
10	0.3	500	2.5
50	0.4	1000	2.5
250	2.6		

TA220578

---



— KEY —

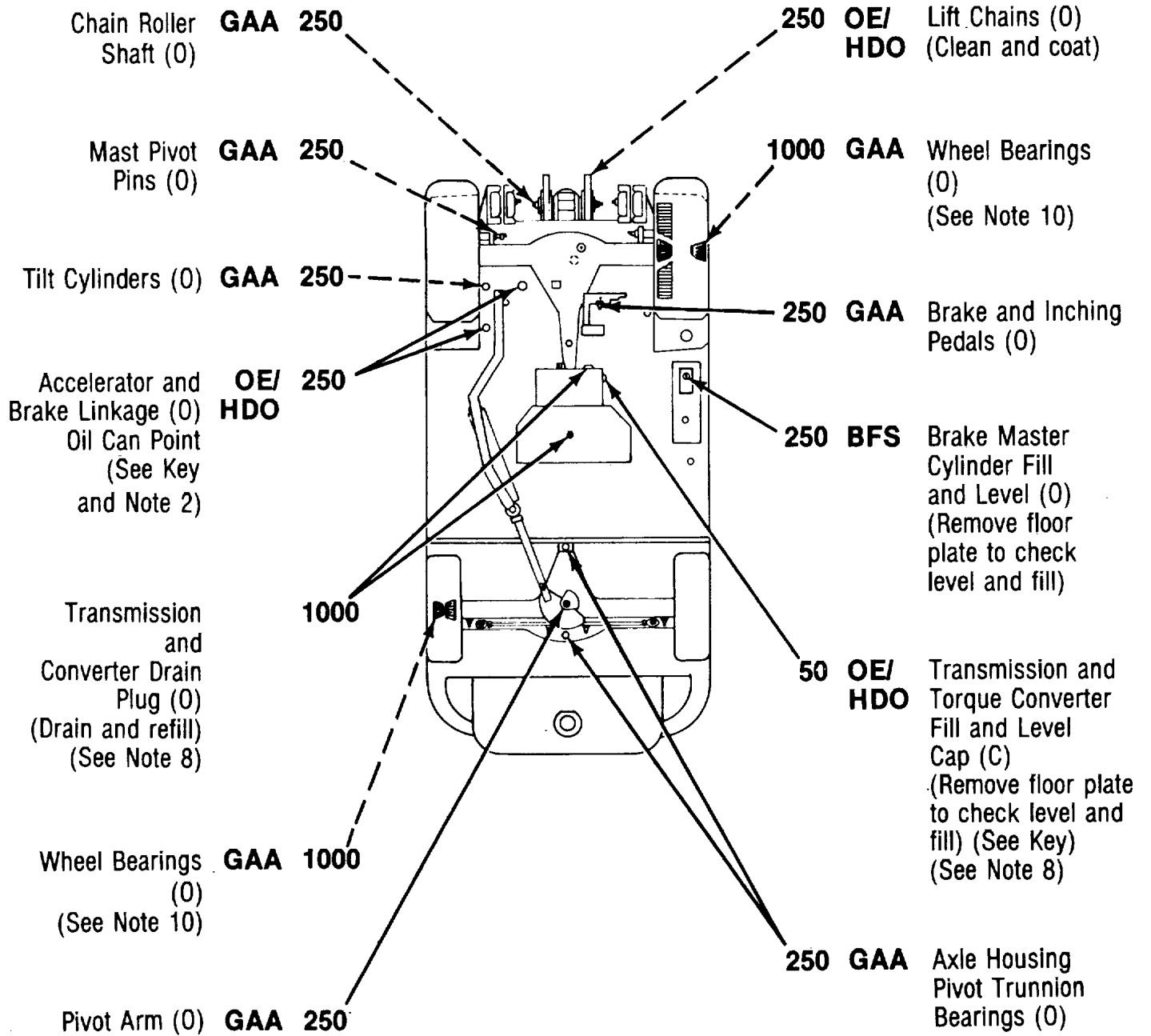
LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES			INTERVALS
		Above +15°F (Above -9°C)	+40° to -15°F (+4° to -26°C)	+40° to -65°F (+4° to -54°C)	
<b>OE/HDO</b> - Lubricating Oil, Internal Combustion Engine, Tactical Service  <b>OEA</b> - Lubricating Oil, Internal Combustion, Arctic - Engine Crankcase - Oil Can Points (See Note 2)	8 qts. (7.56 L)	OE/HDO 30	OE/HDO 10	<b>OEA</b> (See Note 1)	<b>C/MR - Condition Monitor</b>  Intervals given are in hours of normal operation.
- Transmission and Converter - Hydraulic Oil Reservoir with Filters - Air Cleaner	11 qts. (10.40 L)  38 qts. (34.95 L)  1/2 qt. (0.473 L)				
<b>For Arctic operation refer to FM 9-207</b>					

\*See Note 15 for lubricant specification number.

TA220579

**LUBRICANT • INTERVAL**

**INTERVAL • LUBRICANT**



**LUBRICANT • INTERVAL**

**INTERVAL • LUBRICANT**

Carriage and Mast Wear Plates (0)  
(Clean and coat)

**GAA 250**

250 **GAA** Carriage Fork and Latch (0)  
(Clean and coat)

Differential Drain Plug (0)  
(Drain and refill)  
(See Note 11)

**C/MR**

500 **GAA** Bull Gears (0)  
(Clean and coat)

Front Drag Link (0)

**GAA 250**

250 **GO** Differential Fill and Level Plug (0)  
(Check level and fill) (See Key)

Steering Gear Fill and Level Plug (0)  
(Check level and fill) (See Key)

**GO 250**

500 Hydraulic Filter (0)  
(Replace element)  
(See Note 13)

Universal Joint (0)  
(See Note 12)

**GAA 500**

50 **OE/HDO** Hydraulic Reservoir Fill and Level Cap (C)  
(Remove floor plate to check level and fill) (See Key)

King Pin (0)  
(4 fittings)

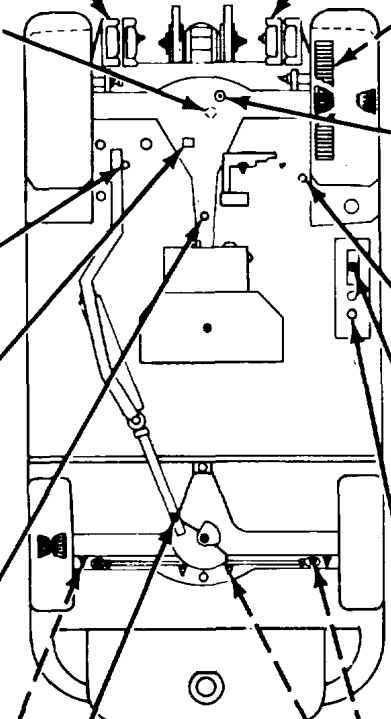
**GAA 250**

1000 Hydraulic Reservoir Drain Plug (0)  
(Drain and refill)  
(See Note 14)

Rear Drag Link (0)

**GAA 250**

250 **GAA** Tie Rods (0)



\* KEY -

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES			INTERVALS
		Above +15°F (Above -9°C)	+40° to -15°F (+4° to -26°C)	+40° to -65°F (+4° to -54°C)	
<b>GO</b> - Lubricating Oil, Gear  - Differential Axle  - Steering Gear	5 pts. (2.36 L)  1/2 pt. (0.236 L)	GO 85W/140	GO 80W/90	GO 75W	For Arctic operation refer to FM 9-207  C/MR-Condition Monitor  Intervals given are in hours of normal operation.
<b>GAA</b> - Grease, Automotive and Artillery	ALL TEMPERATURES				
<b>BFS</b> - Brake Fluid, Silicone, Automotive - Brake Master Cylinder	5/16 qt. (0.3 L)	ALL TEMPERATURES			

\*See Note 15 for lubricant specification number.

**NOTE**

1. FOR OPERATION OF EQUIPMENT IN PROTRACTED COLD TEMPERATURES BELOW -150F (-260C). Remove lubricants prescribed in Key for temperatures above -150F (-260C). Relubricate with lubricants specified in Key for temperatures below -150F (-260C). If OEA lubricant is required to meet the temperature ranges prescribed in the Key, OEA lubricant is to be used in place of OE/HDO-10 lubricant for all temperature ranges where OE/HDO-10 is specified in the Key.
2. OIL CAN POINTS. Each 250 hours, lubricate shift linkage, control valve linkage, brake linkage, and all other oil can points with OE/HDO.
3. ENGINE OIL LEVEL HOT OR COLD CHECK. Cold engine, oil level should be at high mark on dipstick. Hot engine, oil level must be between high and low marks on dipstick (allow to set 5 minutes before checking).
4. ENGINE. Oil is to be changed each 250 hours. Drain when lubricant is warm.

5. ENGINE OIL FILTER. Each 250 hours, remove filter element, clean housing and install new filter element. After installing new filter element, fill crankcase, operate engine for 5 minutes, check housing for leaks, check crankcase oil level and bring to "FULL" mark.
6. AIR CLEANER. Each 10 hours, refill reservoir to level mark. Each 100 hours disassemble entire unit, clean, re-oil and assemble.
7. DISTRIBUTOR. Each 500 hours, remove filter plug from side of drive shaft housing and add OE/HDO-10 as necessary to bring level to filter plug opening. Lubricate rotor wick with 3 or 4 drops of OE/HDO-10. Apply very light coat of GAA to breaker cam.
8. TRANSMISSION AND TORQUE CONVERTER. Check level each 50 hours with engine running, oil at operating temperature and transmission in neutral. Maintain oil level at "FULL" mark. Each 1000 hours remove transmission and

TA220582

NOTES CONTINUED:

converter drain plugs and drain. Access to converter drain plug is gained through timing cover opening on engine flywheel housing. Rotate flywheel until drain plug is in opening, remove plug and rotate flywheel until plug opening is aligned with drain opening at bottom of flywheel housing. Drain when lubricant is warm. Fill transmission to low mark. Run engine at idle speed to fill converter and lines. With engine running at idle speed, oil at operating temperature and transmission in neutral, add oil to bring oil level to "FULL" mark. Operate for 5 minutes and check for leaks.

9. TRANSMISSION AND CONVERTER OIL FILTER. Each 500 hours, remove filter element, clean filter housing and install new filter element and seal. fill transmission to low mark. With engine running at idle speed, oil at operating temperature and transmission in neutral, add oil to bring oil level to "FULL" mark. Operate for 5 minutes and check filter housing for leaks.

10. WHEEL BEARINGS. Each 1000 hours, remove wheels, clean and inspect all parts, replace damaged or worn parts, repack bearings, and assemble.

11. DIFFERENTIAL. Check level each 250 hours. Change gear lubricant only when required by maintenance repair action, contamination by water, or other foreign material. After refill, operate for five minutes, check for leaks and bring oil level to level plug opening.

12. UNIVERSAL JOINT. Each 500 hours, remove joint, disassemble, clean and inspect all parts, replace damaged or worn parts, repack bearings and assemble.

13. HYDRAULIC OIL FILTER. Each 500 hours, remove element, clean filter shell and install new element. After replacement, operate hydraulic system for 5 minutes, check for leaks, check level and bring to "FULL" mark.

14. HYDRAULIC RESERVOIR. Each 50 hours check level. Each 1000 hours drain, flush and refill reservoir, operate hydraulic system for 5 minutes, check for leaks, check level and bring to "FULL" mark.

15. LUBRICANTS. The following is a list of lubricants with military symbols and applicable specification numbers.

OE/HDO	MIL-L-2104
GO	MIL-L-2105 GAA
MIL-G-10924 OEA	MIL-L-46167
BFS	MIL-B-46176
(SD), Type II	P-D-680

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:

ROBERT M. JOYCE  
Major General, United States Army  
The Adjutant General

DISTRIBUTION:

To be distributed in accordance with DA Form 12-25A, Operator and Organizational maintenance requirements for Warehouse Equipment.

- U.S. GOVERNMENT PRINTING OFFICE: 1984-420-903/249

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



THEN... JOT DOWN THE DOPE ABOUT IT ON THIS FORM, CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL!

**SOMETHING WRONG WITH THIS PUBLICATION?**

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

PUBLICATION DATE

PUBLICATION TITLE

BE EXACT... PIN-POINT WHERE IT IS

PAGE NO.

PARA-GRAPH

FIGURE NO.

TABLE NO.

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

TEAR ALONG PERFORATED LINE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SIGN HERE:

DA FORM 2028-2 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.

