

LUBRICATION ORDER

28 FEBRUARY 1984

(Supersedes LO 10-3930-631-12, 12 MARCH 1975)

**TRUCK, LIFT, FORK, EMD, SOLID RUBBER TIRES,
4000 LB CAPACITY, 144 AND 180 INCH LIFT
(ALLIS-CHALMERS MODELS ACE 40AEE-144
AND ACE 40AEE-180, ARMY MODEL MHE-227)
(NSN 3930-00-327-1603), 144-INCH LIFT
(3930-00-327-1600) (180-INCH)**

Reference: TM 10-3930-631-12 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 you 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 us 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.

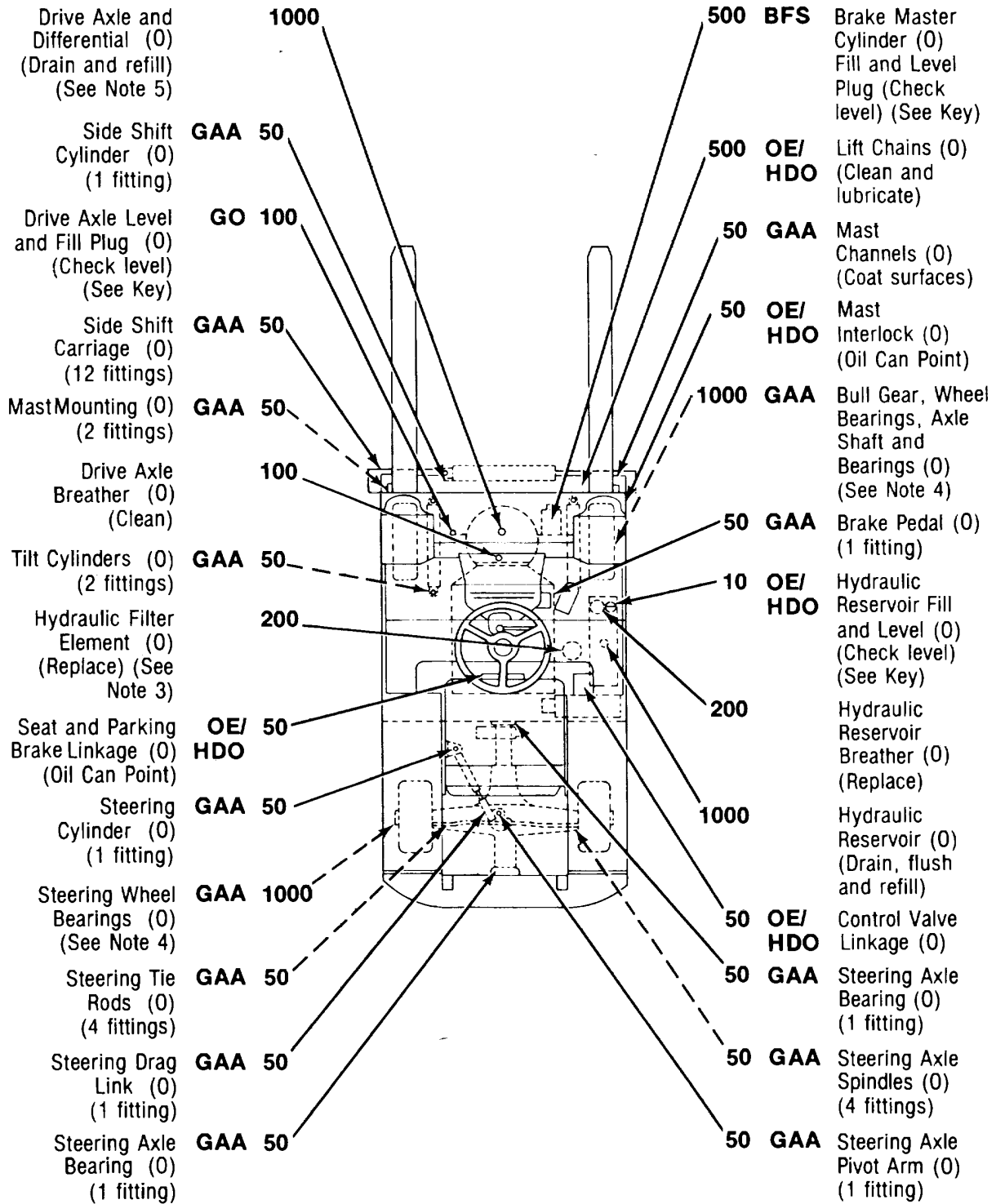
- The time specified is the time required to perform all services at the particular interval.

*TOTAL MAN-HOURS		*TOTAL MAN-HOURS	
INTERVAL	MAN-HOURS	INTERVAL	MAN-HOURS
10	0.10	200	0.30
50	1.5	500	3.2
100	0.30	1000	2.00

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LUBRICANT • INTERVAL

INTERVAL • LUBRICANT



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*** KEY -**

		EXPECTED TEMPERATURES			
LUBRICANTS	CAPACITY	Above +150F	+40°to -15°F	+40°to -650F	INTERVALS
		(Above -9°C)	(+4°to -260C)	(+4°to -54°C)	
OE/ - Lubricating HDO Oil, Internal Combustion Engine, Tactical Service OEA- Lubricating Oil, Internal Combustion, Arctic - Oil Can. Points (See Note 2) Hydraulic Reservoir GO - Lubricating Oil, Gear Multipurpose - Drive Axle.	5.9 gals. in hours (22.3L) 5 pts (2.4L)	OE/HDO 10 GO 85W/140	OEIHDO 10 GO80W/ 90	OEA (See Note 1) 190GO 75W	Intervals given are of normal
BFS - Brake Fluid, Automotive - Brake Master Cylinder	3 pts. (1.4L)	ALL TEMPERATURES			
GAA- Grease, Automotive and Artillery		ALL TEMPERATURES			

*See Note 6 for lubricant specification number

NOTES:

1. FOR OPERATION OF EQUIPMENT IN PROTRACTED COLD TEMPERATURE BELOW -15°F (-260C). Remove lubricant prescribed in Key for temperatures above +150F (-260C). Relubricate with lubricant 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 a temperature range where OE/HDO-10 is specified in the Key.

2. OIL CAN POINTS. Each 50 hours lubricate seat and parking brake linkage, most interlock, and control valve linkage, pins, and devices and all exposed adjusting threads with OE/HDO-10.

3. HYDRAULIC FILTER ELEMENT. Each 200 hours, remove element, clean filter housing and install new element, after replacement, operate hydraulic system for 5 minutes, check for leaks, check level and bring to "FULL" mark

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NOTES - CONTINUED:

- 4. STEERING WHEEL BEARINGS AND BULL GEARS. Each 1000 hours or annually, remove wheels, clean and inspect all parts, repack bearings and assemble. Fill bull gear spaces to 3/4 height of teeth with GAA grease.
- 5. DRIVE AXLE AND DIFFERENTIAL. Check level each 100 hours. Change gear lubricant each 1000 hours or when contaminated by water, or other foreign material. After refill, operate for five minutes, check for leaks and bring oil level to level plug opening.
- 6. 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

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