

LUBRICATION ORDER

LO 10 3930-607 12

22 February 84

(Supersedes LO 10-3930-607-12-1 and -2, 26 MAY 1969)

**TRUCK, LIFT, FORK; GASOLINE ENGINE DRIVEN,
SOLID RUBBER TIRES, 4,000 LB CAPACITY
(HYSTER MODEL S40CP, ARMY MODEL MHE-203)
(NSN 3930-00-935-7866) 100-INCH LIFT AND
(3930-00-935-7865) 180-INCH LIFT**

Reference: TM 10-3930-607-15 and FEDERAL SUPPLY CATALOG C9100-IL.

Hard time intervals and the related manhour 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	0.5
50	0.1	1000	2.3
250	2.0		

TA220090

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

Carriage Rollers
(Sealed bearings
no lubrication
required)

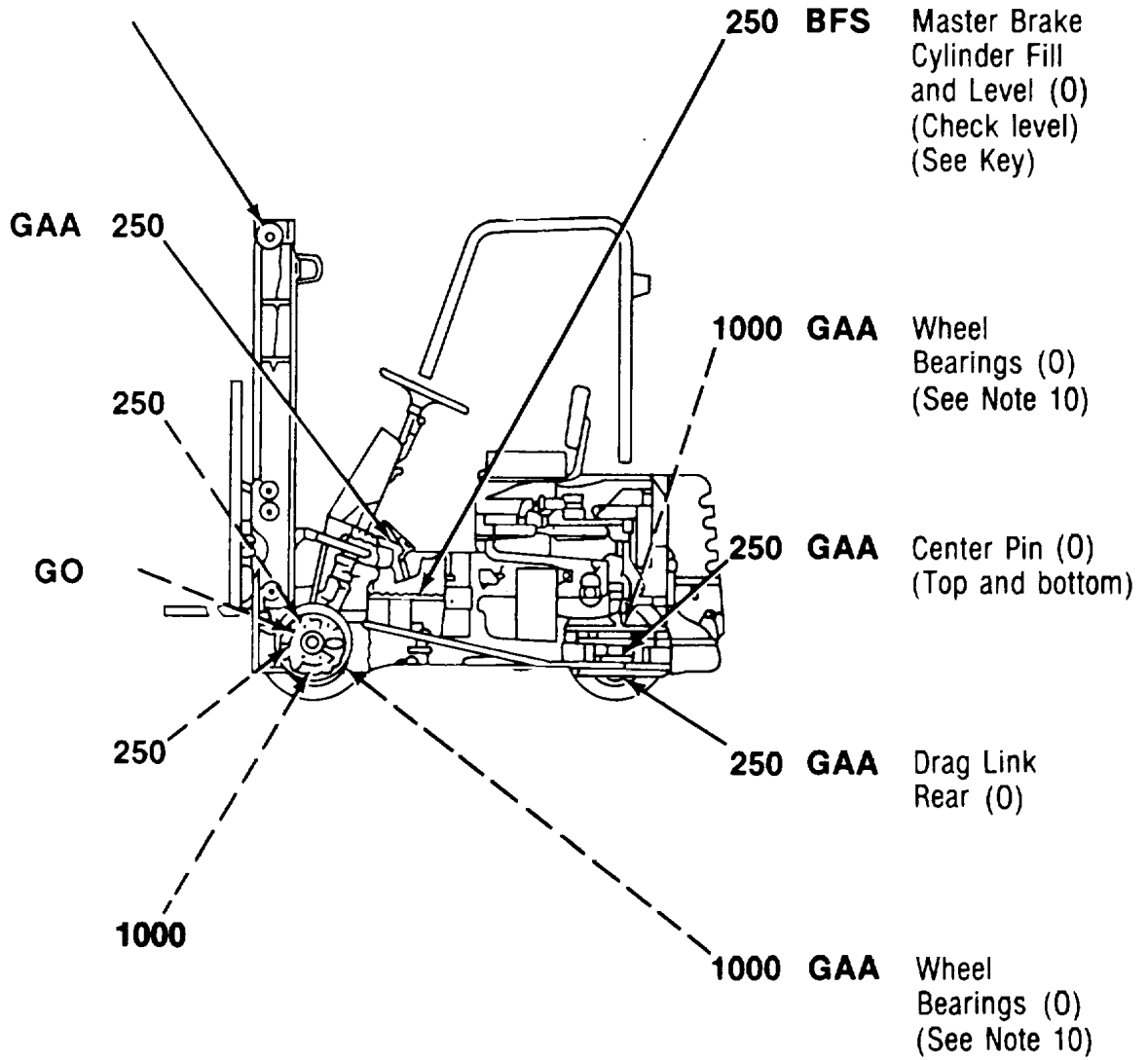
Brake Inching
Pedal Pivot
Points (0)

Drive Axle
Breather (0)
(Clean)

Drive Axle
Fill Plug (0)
(See Key)

Drive Axle
Level Plug (0)
(Check level)

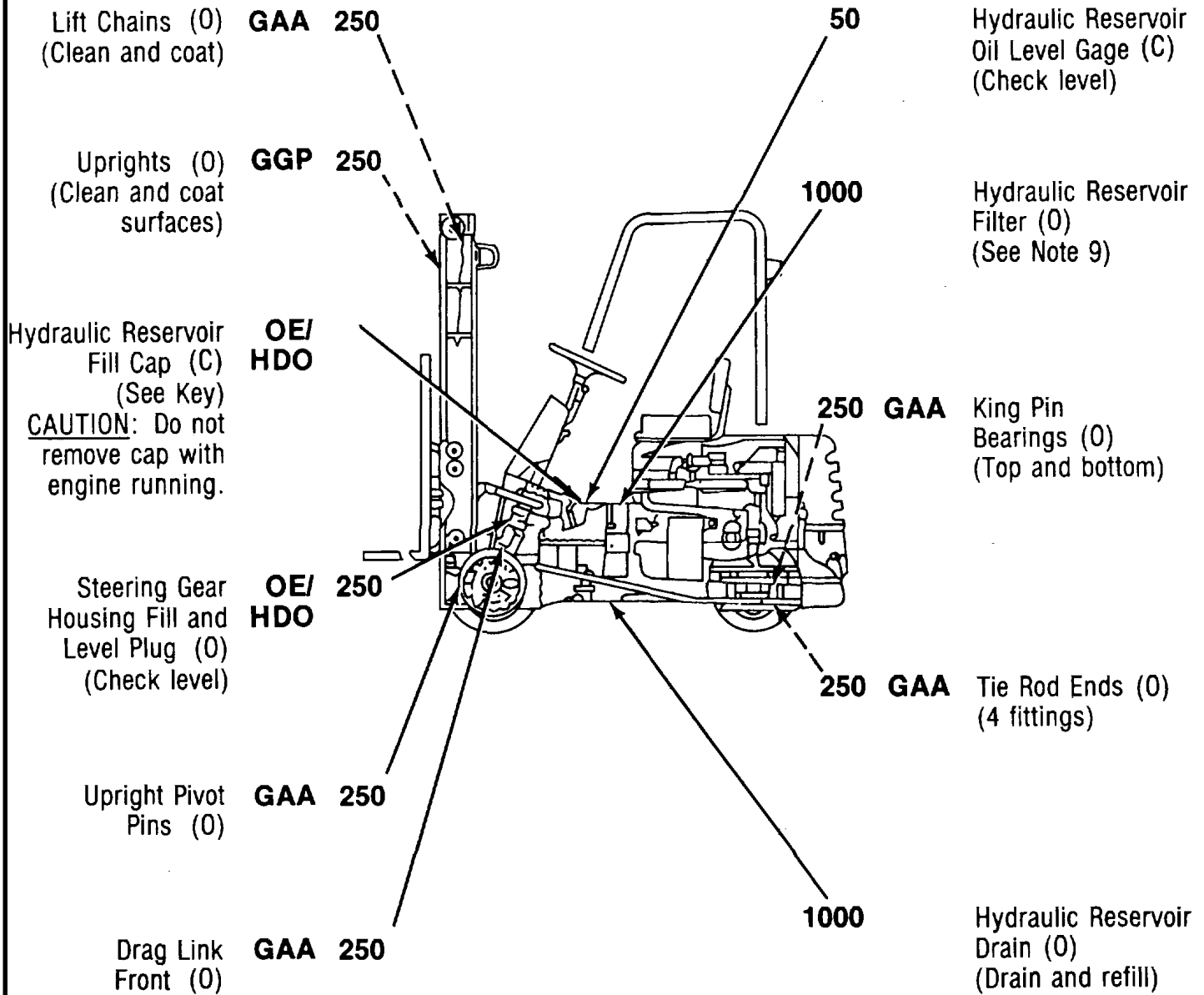
Drive Axle
Drain Plug (0)
(Drain and refill)
(See Note 11)



TA220091

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT



TA220092

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

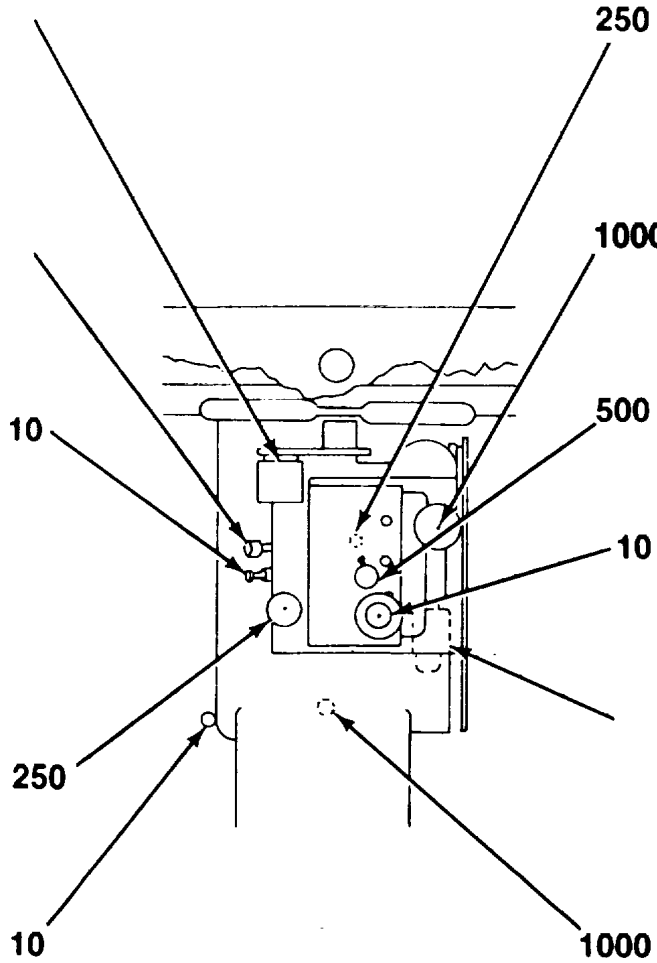
Battery Charging
Alternator
(Sealed bearings,
no lubrication
required)

Crankcase Oil
Fill Cap (C) **OE/
HDO**
(See Key)

Crankcase Level
Gage (C)
(Check level)
CAUTION: When
OEA oil is used,
the level will be
checked more
often. (See Note 3)

Engine Oil
Filter (O)
(See Note 5)

Transmission Fill
and Level Cap (C) **OE/
HDO**
(See Key)
(See Note 8)



250
Crankcase Oil
Drain Plug (O)
(Drain and refill)
(See Note 4)

1000
Transmission Oil
Filter (O)
(See Note 8)

500 **OE/
HDO** Distributor (O)
(See Note 6)

10 **OE/
HDO** Air Cleaner (C)
(See Key)
(See Note 7)

Starter
(Sealed bearings,
no lubrication
required)

1000
Transmission Drain
Plug (C)
(Drain and refill)
(See Note 8)

TA220093

* 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)	
OE/ HDO - Lubricating Oil, Internal Combustion Engine, Tactical Service OEA - Lubricating Oil, Internal Combustion, Arctic - Crankcase - Oil Can Points (See Note 2) - Transmission - Hydraulic Reservoir - Air Cleaner	4-1/2 qts. (4.25 L) 13 qts. (12.29 L) 32 qts. (30.27 L) 1/2 pt. (0.24 L)	OE/HDO 30	OE/HDO 10	OEA (See Note 1)	Intervals given are in hours of normal operation. For Arctic operation refer to FM 9-207
GO - Lubricating Oil, Gear, Multipurpose - Drive Axle Gearcase	10-1/2 qts. (9.93 L)	GO 85W/140	GO 80W/90	GO 75W	
BFS - Brake Fluid, Silicone, Automotive - Brake Master Cylinder	1 pt. (0.473 L)	ALL TEMPERATURES			
GGP - Grease, General Purpose		ALL TEMPERATURES			
GAA - Grease, Automotive and Artillery		ALL TEMPERATURES			

*See Note 12 for lubricant specification number.

NOTES:

1. FOR OPERATION OF EQUIPMENT IN PROTRACTED COLD TEMPERATURES BELOW -15°F (-260C). Remove lubricants prescribed in Key for temperatures above -15°F (-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 throttle linkage, and all exposed adjusting threads 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 200 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. DISTRIBUTOR. Each 500 hours use one drop of OE/HDO oil on breaker lever pivot and on felt wick under rotor. Each 500 hours lightly coat cam with GAA and lubricate shaft sparingly through lube fitting.
7. AIR CLEANER. Each 10 hours, refill reservoir to level mark. Each 50 hours disassemble entire unit, clean, re-oil and assemble.
8. TRANSMISSION AND TRANSMISSION OIL FILTER. Check level each 10 hours with engine running at idle speed, oil at operating temperature and transmission in neutral. Maintain oil at "FULL" mark. Oil and oil filter element are to be changed each 1000 hours. Remove filter element, clean filter housing, install new filter element and seal. After replacement, fill transmission to low mark. with

engine running, oil at operating temperature, and transmission in neutral (to fill lines and converter), add oil to bring to "FULL" mark. Operate for five minutes and check for leaks.

9. HYDRAULIC RESERVOIR FILTER.

Each 1000 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.

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

11. DRIVE AXLE. Check level each 250 hours. Change gear lubricant each 1000 hours. After refill, operate for five minutes, check for leaks and bring oil level to level plug opening.

12. 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
GGP	MIL-G-23549

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 Fork Lift Trucks.

TA220095

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
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.

