

LUBRICATION ORDER

2 JULY 1973 (Supersedes LO 5-2420-221-12-1 dated 22 JAN 71)

TRACTOR, WHEELED INDUSTRIAL; D E D 2 SINGLE FRONT WHEELS,
 NON DRIVING STEERABLE; 2 SINGLE REAR WHEELS DRIVING,
 NON-STEERABLE, W/15 CU FOOT FRONT END LOADER AND
 22 INCH WIDE BACKHOE (J. I. CASE MODEL M48OCK)
 W/ENGINE J. I. CASE MODEL 188

Reference: L05-2420-221-12-2 and FEDERAL SUPPLY CATALOG C9100-IL

Intervals are based on normal hours of operation. Adjust to compensate for abnormal operation and severe conditions. During inactive periods, sufficient lubrication must be performed for adequate preservation.

Clean parts with SOLVENT, dry-cleaning, or with OIL, fuel, Diesel. Dry before lubricating.

Lubricate points indicated by dotted arrow shaft on both sides of equipment.

Relubricate after washing.

Drain gearcase when hot. Fill and check level.

Clean fitting before lubricating.

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

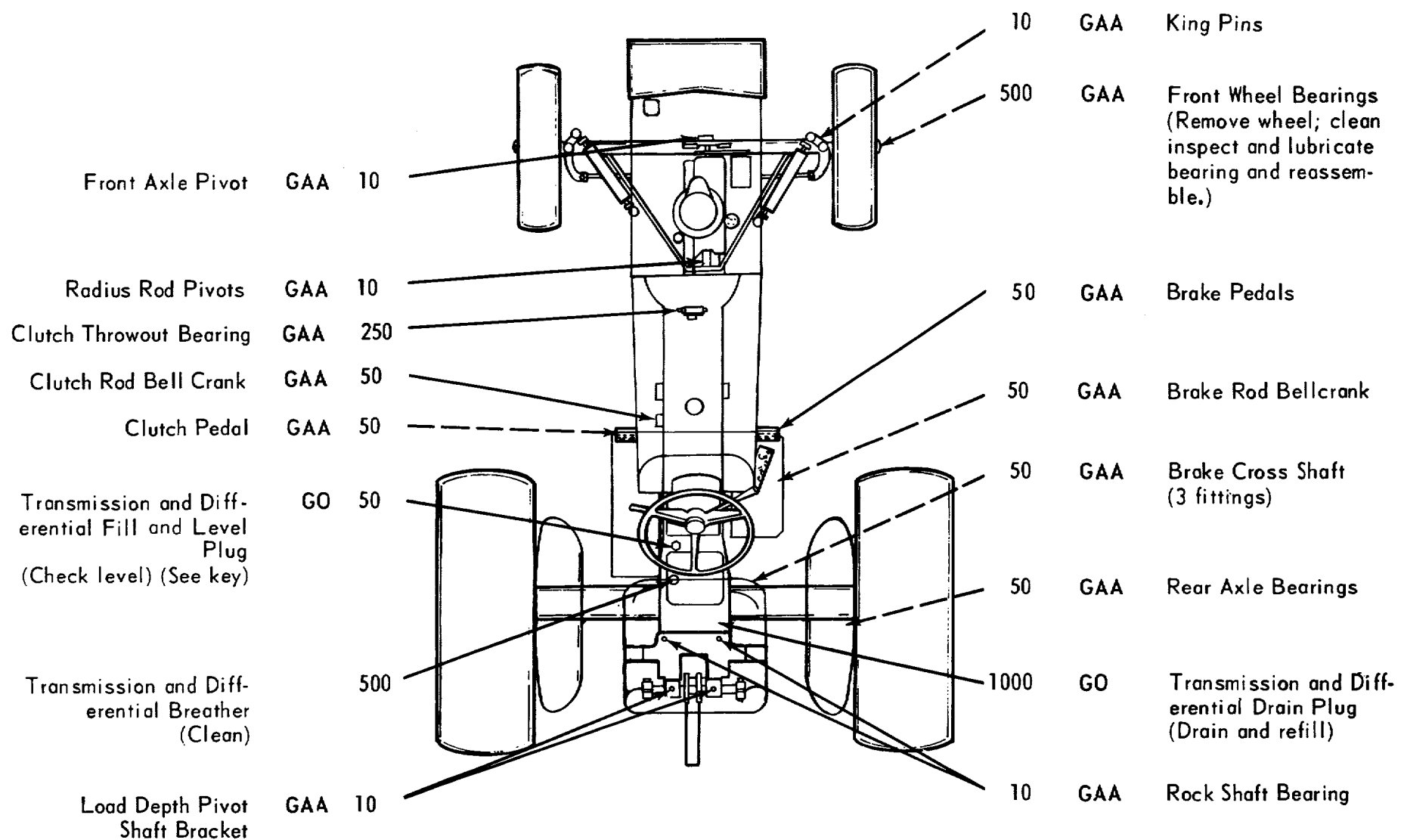
* TOTAL MAN-HR		*TOTAL MAN-HR	
INTERVAL	MAN-HR	INTERVAL	MAN-HR
10	0.6	250	1.7
50	1.1	500	2.2
100	1.6	1000	3.1

FOLD

FOLD

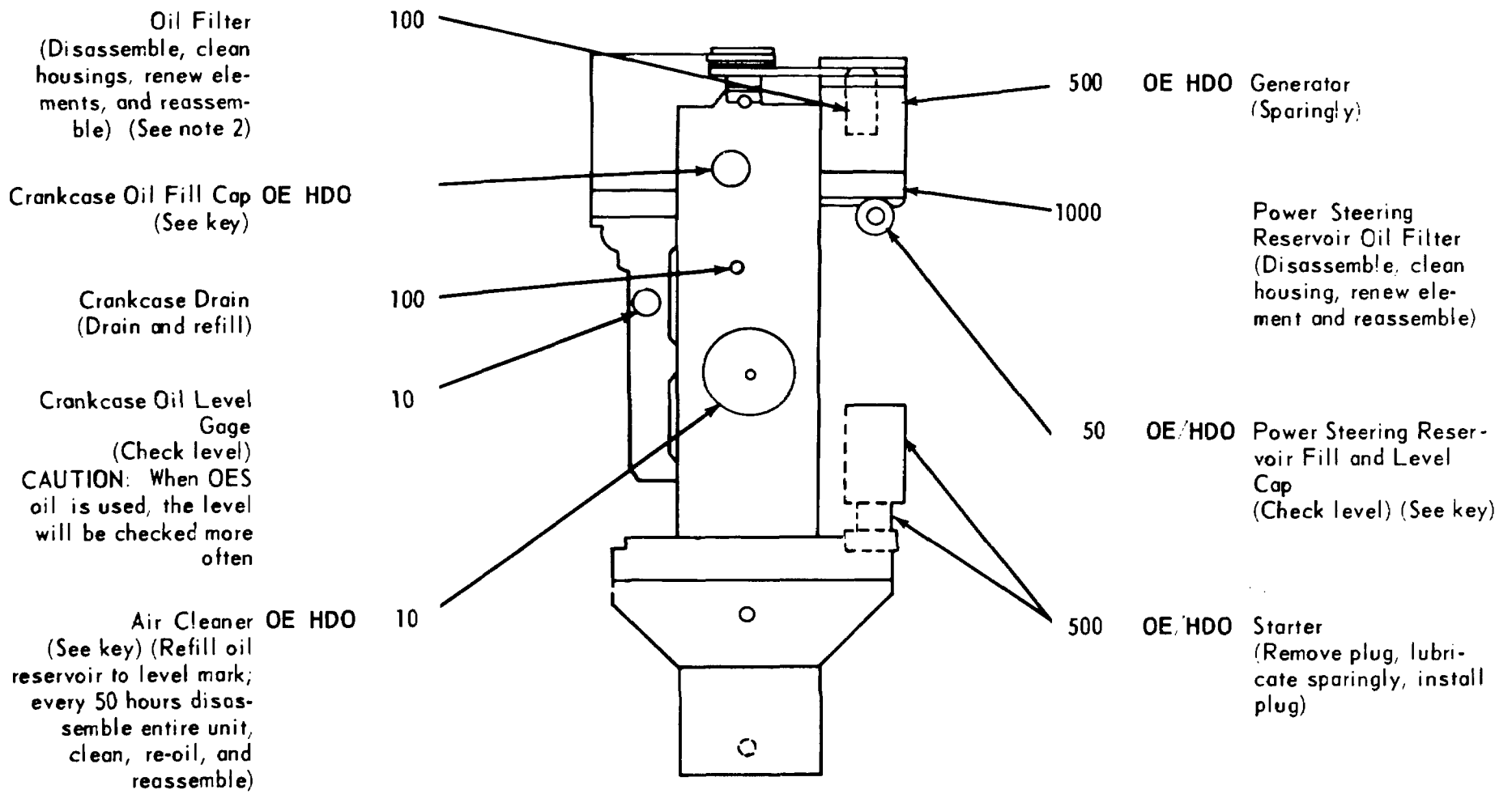
INTERVAL ● LUBRICANT

LUBRICANT ● INTERVAL



LUBRICANT ● INTERVAL

INTERVAL ● LUBRICANT



FOLD

FOLD

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES			INTERVALS
		Above +32°F	+ 40°F to -10° F	0°F to -65°F	
OE/HDO-LUBRICATING OIL, Engine		OE/HDO 30	OE/HDO 10	OES	Intervals given are in hours of normal operation
Crankcase includes Oil Filter	5 qts				
Air Cleaner	1/2 qt				
Oil Can Points					
Hydraulic System	44 qts	OE/HDO 10			
Steering Oil Reservoir	1 qt				
OES-LUBRICATING OIL, Engine Sub-zero					
GO-LUBRICATING OIL, Gear		GO 90	GO 90	GOS	
Transmission & Differential	17 qts				
GOS-LUBRICATING OIL, Gear, Sub-zero					
GAA - Auto & Artillery		ALL TEMPERATURES			

NOTES:

1. FOR OPERATION OF EQUIPMENT IN PROTRACTED COLD TEMPERATURES BELOW - 10°F. Remove lubricants prescribed in the key for temperatures above -10°F. Relubricate with lubricants specified in the key for temperatures below -10°F.

2. ENGINE OIL FILTERS. Every 100 hours remove filter elements, clean housings, install new elements, fill crankcase, operate engine for 5 minutes, check for leaks, check crankcase oil level and bring to full mark.

3. OIL CAN POINTS. Every 50 hours lubricate throttle linkage, and all exposed adjusting threads with OE/HDO.

4. LUBRICANTS. The following is a list of lubricants with the Military Symbols and applicable specification numbers.

OE/HDO MIL-L-2104C OES MIL-L-10295
 GAA MIL-G-10924 GO MIL-L-2105 GOS MIL-L-10324

DISTRIBUTION: To be distributed in accordance with DA Form 12-25B (qty rqr block no. 489) Operator's Maintenance requirements for Tractor, Wheeled, Medium.

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:

CREIGHTON W. ABRAMS
 General, United States Army
 Chief of Staff

OFFICIAL:

VERNON L. BOWERS
 Major General, United States Army
 The Adjutant General

