

LUBRICATION ORDER

(Supersedes LO 5-3895-221-15-1, 10 JULY 1962 and
LO 5-3895-221-15-2, 23 JULY 1962)

9 JAN 84

**MIXER, CONCRETE, TRAILER MOUNTED:
GASOLINE DRIVEN, 16 CU FT (CHAIN BELT
MODEL HBG) (NSN 3895-00-835-4512)**

Reference: TM 5-3895-221-15 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.

Clean parts or fittings with dry cleaning solvent (SD), Type II or equivalent. Dry before lubricating. Dotted arrowshafts 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).

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

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	2.5	250	0.7
50	0.6	1000	2.0
100	1.3		

TA 220407

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

Freeway Valve Stem and Plunger Shaft (0) (2 fittings)

GAA 10

Skip Cable (C) (Clean and coat)

CW 250

Freeway Valve Level Shaft Bearing (0)

GAA 10

Discharge Chute Control Gears and Bearings (0)

GAA 50

Skip Clutch Control Lever Tube (0)

GAA 10

Front Wheel Bearings (0) (Service) (See Note 3)

GAA 1000

King Pin Bushings (0)

GAA 50

10 GAA

Skip Hoist Shaft Bearings (0)

250 CW

Skip Hoist Shaft Winding Cable (C) (Clean and coat)

10 GAA

Skip Linkage Support Bearings (0)

10 GAA

Skip Shaker Rollers (0)

10 GAA

Skip Clutch Shaft Bearing (0)

Skip Winding Cable Drum (Sealed bearings, no lubrication required)

10 GAA

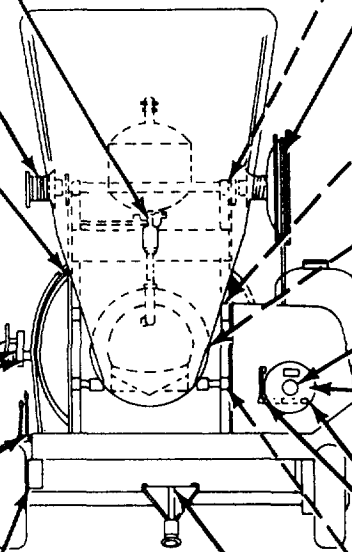
Skip Clutch Cross Shaft (0)

10 GAA

Skip Linkage Bearings (0)

50 GAA

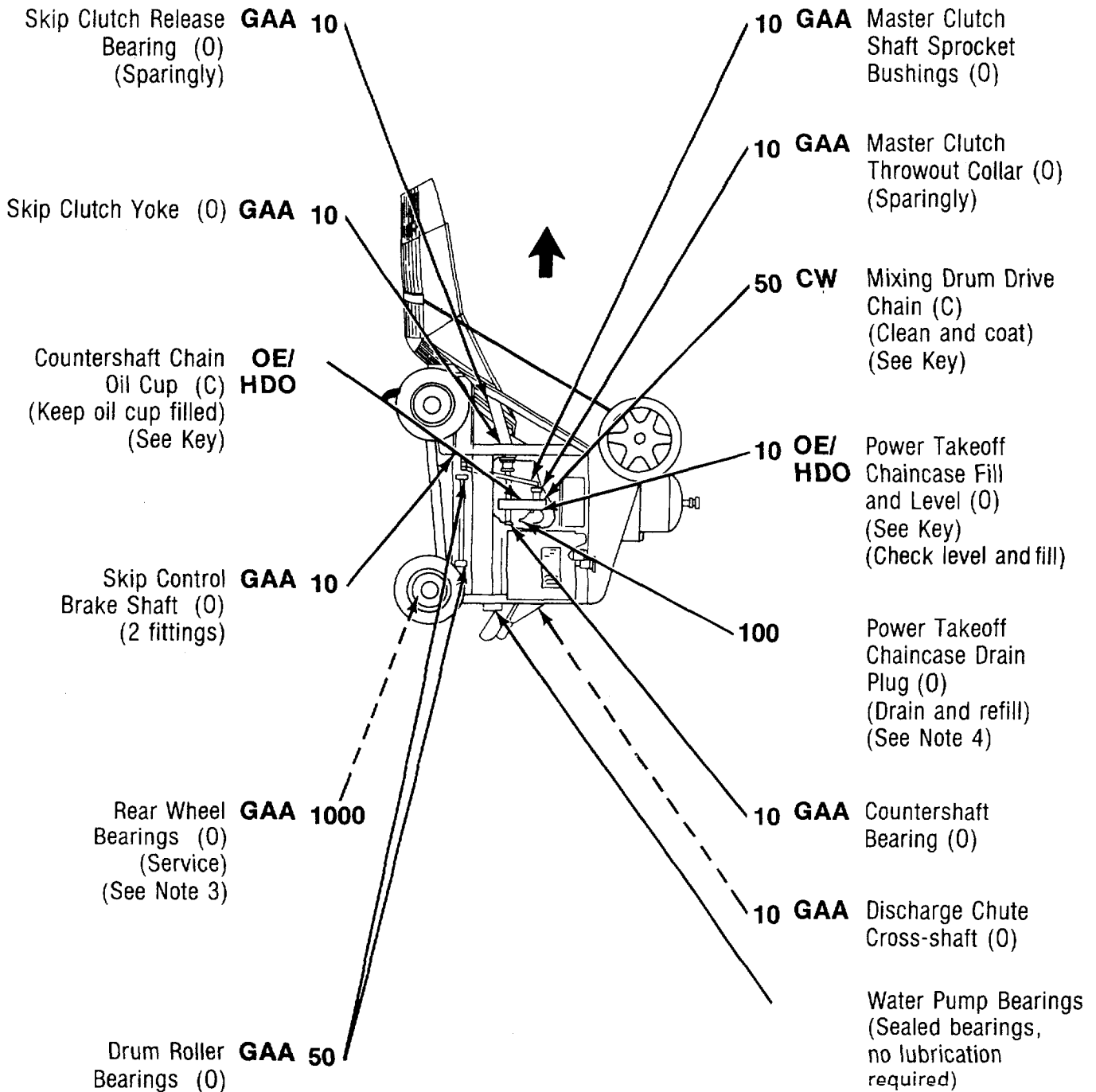
Towing Tongue Pivot Pin (0)



FRONT VIEW

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT



LEFT SIDE VIEW

LUBRICANT - INTERVAL

INTERVAL - LUBRICANT

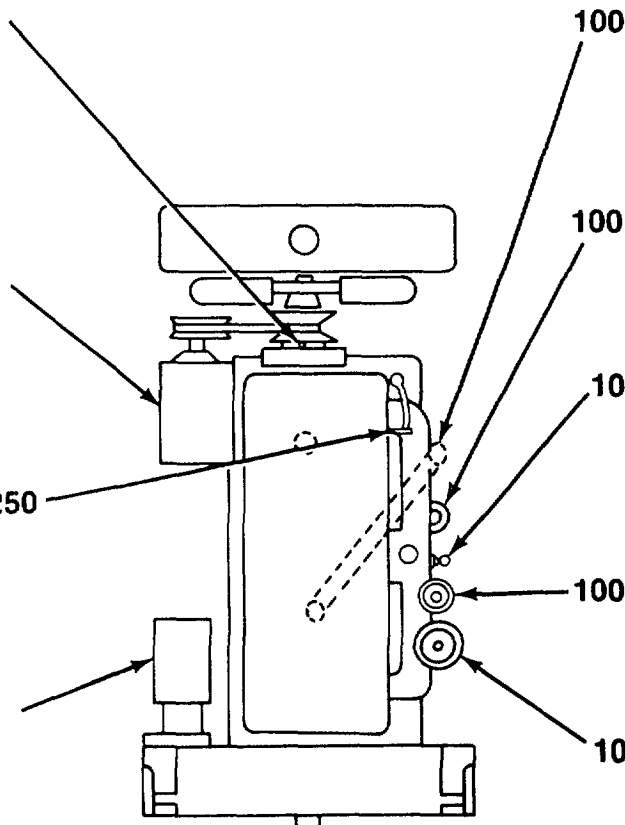
Water Pump Bearings
(Sealed bearings, no lubrication required)

Generator
(Sealed bearings, no lubrication required)

Tachometer Drive Cable (C)
(Clean and coat)

Starting Motor
(Sealed bearings, no lubrication required)

OE/ HDO 250



Crankcase Drain Plug (O)
(Drain and refill)
(See Note 6)

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

Oil Level Gage (C)
(Check level)
(See Note 5)

Oil Filter (C)
(Change element)
(See Note 7)

OE/ HDO Air Cleaner (C)
(Service) (See Key and Note 8)

ENGINE, HERCULES
MODEL IXB-3ER

* KEY -

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES			INTERVALS
		Above +15°F (Above -9°)	+40°F to -15° F (+4° to -26°)	+40°F to -65°F (+4° to -54°)	
OE/HDO - Lubricating Oil, Internal Combustion Engine, Tactical Service OEA - Lubricating Oil, Internal Combustion Arctic - Oil Can Points (See Note 2) - Engine Crankcase - Power Take-off - Chaincase - Air Cleaner	5 1/2 qts. (5.2 L) 3/4 qt. (0.7 L) 3/4 qt. (0.7 L) 3/4 qt. (0.7 L)	OE/HDO 30	OE/HDO 10	OEA (See Note 1)	For Arctic operation refer to FM 9-207 Intervals given are in hours of normal operation.
CW - Lubricating Oil, Chain Wire Rope Exposed Gear		CW II B	CW II A	CW II A	
GAA - Grease, Automotive and Artillery		ALL TEMPERATURES			

* See Note 9 for lubricant specification number.

NOTES:

1. FOR OPERATION OF EQUIPMENT IN PROTRACTED COLD TEMPERATURES BELOW -15°F (-26°C). Remove lubricants prescribed in Key for temperatures above -15°F (-26°C). Relubricate with lubricants specified in Key for temperatures below -15°F (-26°C). 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 50 hours lubricate throttle and governor linkage, all hinges, pins, devices and exposed adjusting threads with OE/HDO.

3. WHEEL BEARINGS. Each 1,000 hours, remove wheels, clean and inspect all parts, replace damaged or worn parts, repack bearings, and assemble.

4. POWER TAKEOFF CHAINCASE. Check level each 10 hours. Each 100 hours change oil. Drain when lubricant is warm.

5. 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)

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NOTES - CONTINUED:

6. ENGINE. Oil is to be changed each 100 hours. Drain when lubricant is warm.

7. ENGINE OIL FILTER. Each 100 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.

8. AIR CLEANER. Each 10 hours, refill reservoir to level mark. Each 50 hours disassemble entire unit, clean, re-oil and assemble.

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

OE/HDO	MIL-L-2104
GAA	MIL-G-10924
OEA	MIL-L-46167
CW	VV-L-751
(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 12-25B, Operator and Organizational maintenance requirements for Concrete Mixers.

TA 220412

