

ORDER

26 MARCH 1971 (Supersedes L.05-3810-201-12-4, dtd 9 Feb 1968 and L05-3810-206-12-4, dtd 18 Mar 1968)

**CRANE-SHOVEL, BASIC UNIT, CRAWLER MOUNTED, 40 TON, 2 CU YD,
DIESEL DRIVEN, (HARNISCHFEGER MODEL 855 BG, 855 BG-2 AND
855 BG-3) W/HARNISCHFEGER ENGINE MODEL 687C-18-ES AND
CATERPILLAR ENGINE MODELS D333TA AND D333C**

Reference L05-3810-206-12-1,-3, and -5 C9100-IL

Intervals are based on normal hours of operation. Adjust to compensate for abnormal operations 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.

Clean fittings before lubrication. sides of equipment.

Lubricate points Indicated by dotted arrow shafts on both

Relubricate after washing or fording.

A dotted circle Indicates a drain below.

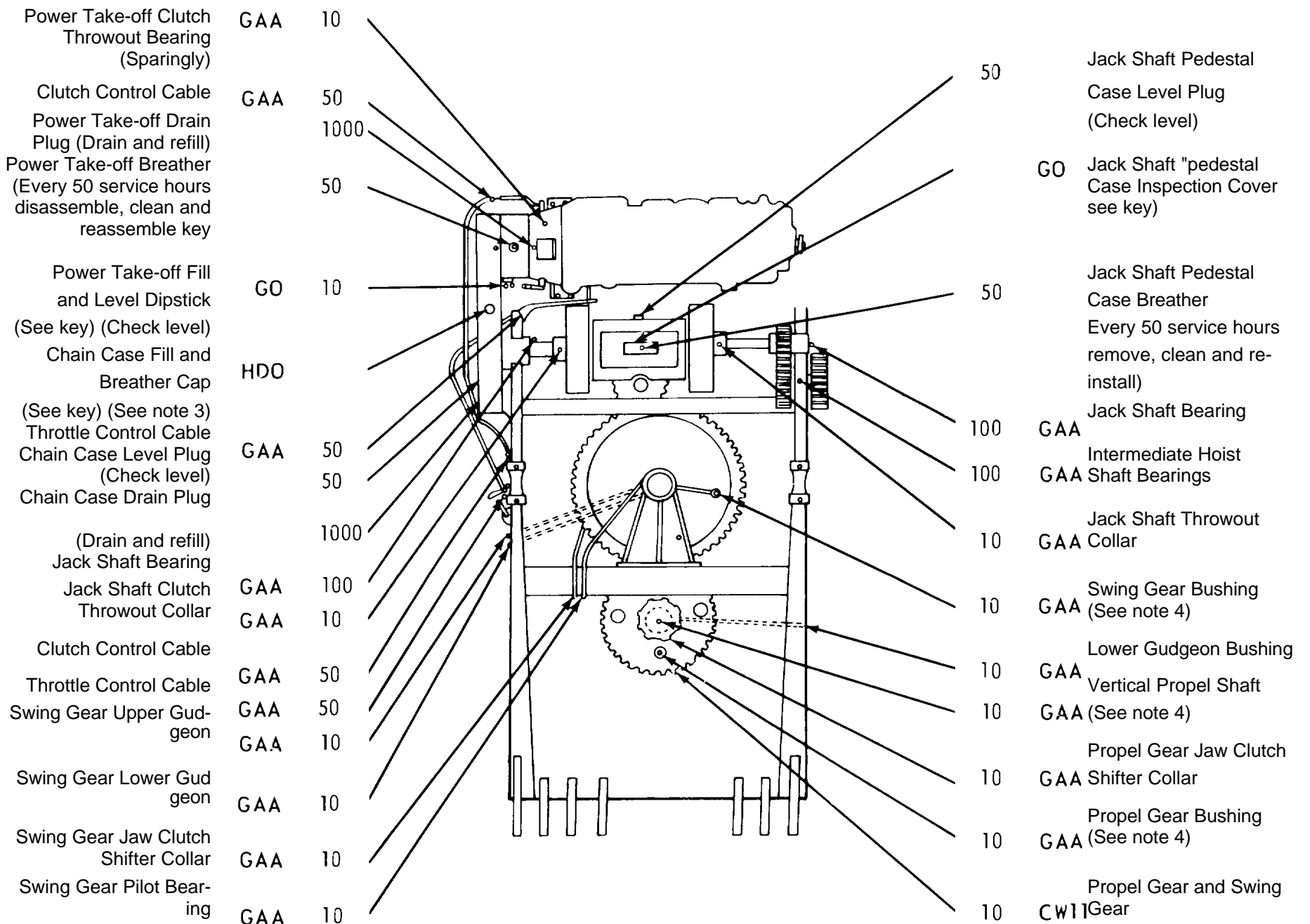
Drain gearcases when hot. Fill and check level.

LUBRICANT • INTERVAL

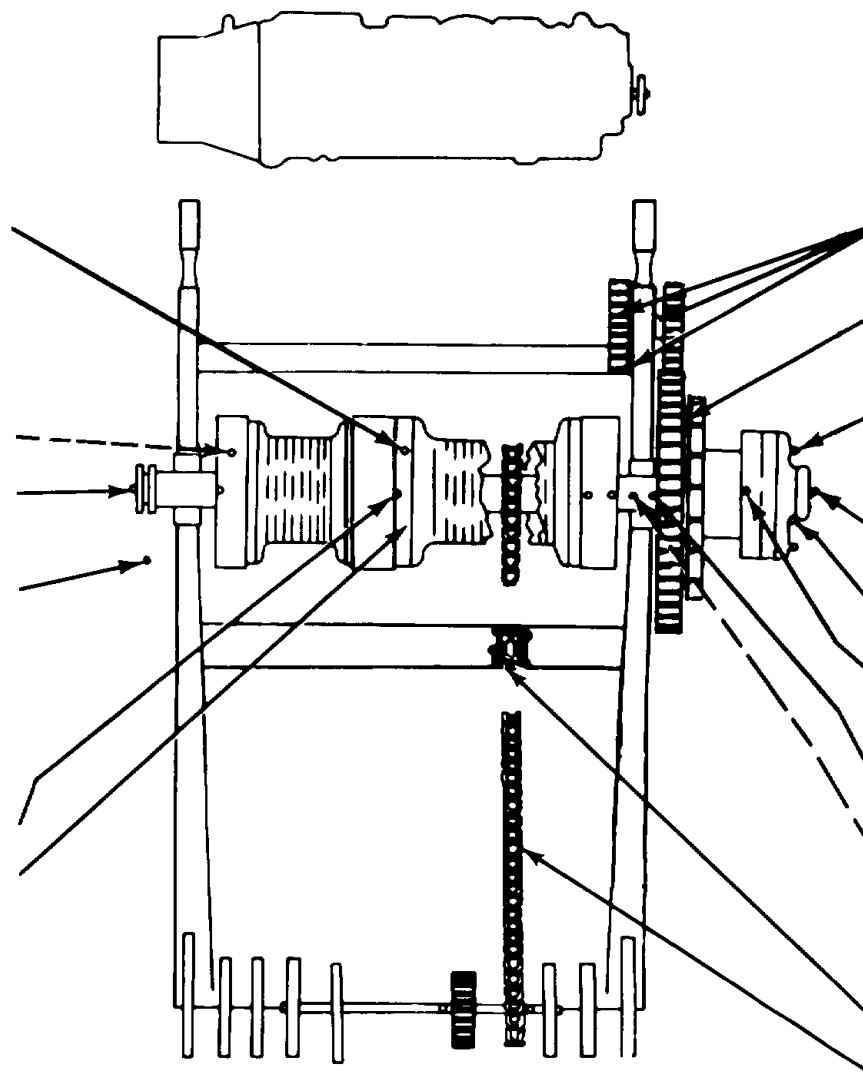
INTERVAL • LUBRICANT

FOLD

FOLD



Planetary Pinion Gear (2 fittings (These points are removed when equipment is being utilized as clamshell or dragline) Drum Bearing GAA 100
 Drum Shaft Outboard End Bearing GAA 100
 Dipper Trip Lever Assembly GAA 10
 (Located beneath floor panel) (Necessary only when equipment is being utilized as shovel)
 Drum Shaft Bearing GAA 10
 Planetary Gear and Pinions CW11 10
 (Clean and coat)



10 CW11 Intermediate Hoist and Pinion Shaft Gears
 10 GAA Safety Pawl Pin (3 fittings)
 10 GAA Planetary Pinions (2 fittings)
 100 GAA Drum Shaft Outboard End Bearing
 10 GAA Planetary Spider
 100 GAA Boom Hoist Drum Bearing
 100 GAA Drum Shaft Bearing
 250 GAA Clutch Drum Bearing Plug
 (Remove plugs and insert fitting to lubricate)
 10 GAA Chain Tightener
 10 HDO Crowd Chain (Clean and Coat)

FOLD

FOLD

-KEY-

| LUBRICANTS | CAPACITY | EXPECTED TEMPERATURES | | | INTERVALS |
|---------------------------------------|----------|-----------------------|------------------|----------------|--|
| | | Above +32° F | +40° F to -10° F | 0° F to -65° F | |
| HDO-OIL, Engine Heavy Duty | | | | | Intervals given are in hours of normal operation |
| Chain Case | 14 qts | HDO 30 | HDO 10 | OES | |
| Oil Can Points | | | | | |
| OES-Oil, Engine, Sub-zero | | | | | |
| GO-LUBRICATING OIL, Gear | | | | | |
| Power Take-off | 8 qts | GO 90 | GO 90 | GOS | |
| Jack Shaft Pedestal Case | 24 qts | | | | |
| GOS-LUBRICATING OIL, Gear, Sub-zero | | | | | |
| CW-11-B LUBRICATING OIL, Exposed Gear | | ALL TEMPERATURES | | | |
| GAA-GREASE, Automotive and Artillery | | | | | |

NOTES:

- 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 - 1° F.
- OIL CAN POINTS.** Every 10 service hours lubricate all linkage, pins and clevises with HDO.
- CHAIN CASE BREATHER.** Every 250 service hours remove breather cap and clean in approved cleaning SOLVENT. Dry, reoil and re-install.
- TRAVELING.** When traveling, lubricate the following points every 2 service hours, swing gear bushing, vertical propel shaft and propel gear bushing.

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

- HDO MIL-L-45199
- GO MIL-L-2105
- OES MIL-L-10295
- GOS MIL-L-10324
- GAA MIL-L-10924
- CW-11B VV-L-751

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.
 W. C. WESTMORELAND
 General, United States Army,
 Chief of Staff

OFFICIAL

KENNETH G. WICKHAM
 Major General, United States Army,
 The Adjutant General.

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