

19 July 1984

(Supersedes LO 5-3820-235-15-1 and -2, 19 MAY 1967)

**DRILL, PNEUMATIC, DRIFTER, CRAWLER MTD,
 SELF-PROPELLED: DRY TYPE, 220 LB CLASS MINIMUM
 4 1/2-INCH BORE; POWER FEED 1 1/2-INCH LUGGED
 SHANK CHUCK W112 EACH SHANK, ROCK DRILL
 (CHICAGO PNEUMATIC TOOL CO, MODEL G-900)
 (NSN 3820-00-930-1917)**

Reference: TM 5-3820-235-15 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 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.

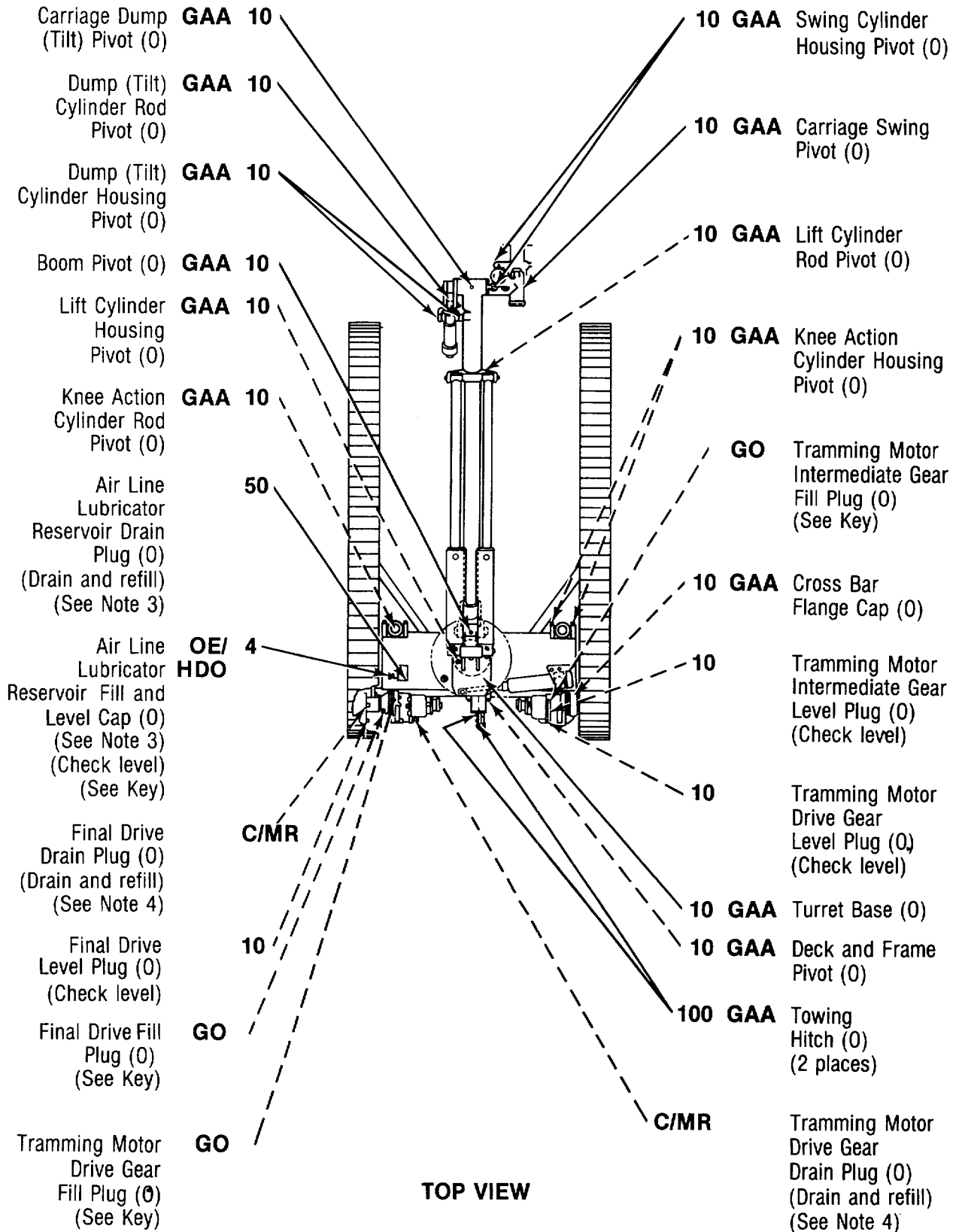
*The time specified is the time required to perform all services at the particular interval.

*TOTAL MAN-HOURS		*TOTAL MAN-HOURS	
INTERVAL	MAN-HOURS	INTERVAL	MAN-HOURS
4	0.4	50	0.3
5	0.1	100	0.2
10	3.0	250	0.5

TA 220568

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT



- Carriage Dump (Tilt) Pivot (0) **GAA 10**
- Dump (Tilt) Cylinder Rod Pivot (0) **GAA 10**
- Dump (Tilt) Cylinder Housing Pivot (0) **GAA 10**
- Boom Pivot (0) **GAA 10**
- Lift Cylinder Housing Pivot (0) **GAA 10**
- Knee Action Cylinder Rod Pivot (0) **GAA 10**
- Air Line Lubricator Reservoir Drain Plug (0) (Drain and refill) (See Note 3) **50**
- Air Line Lubricator Reservoir Fill and Level Cap (0) (See Note 3) (Check level) (See Key) **OE/ HDO 4**
- Final Drive Drain Plug (0) (Drain and refill) (See Note 4) **C/MR**
- Final Drive Level Plug (0) (Check level) **10**
- Final Drive Fill Plug (0) (See Key) **GO**
- Tramming Motor Drive Gear Fill Plug (0) (See Key) **GO**

- Swing Cylinder Housing Pivot (0) **10 GAA**
- Carriage Swing Pivot (0) **10 GAA**
- Lift Cylinder Rod Pivot (0) **10 GAA**
- Knee Action Cylinder Housing Pivot (0) **10 GAA**
- Tramming Motor Intermediate Gear Fill Plug (0) (See Key) **GO**
- Cross Bar Flange Cap (0) **10 GAA**
- Tramming Motor Intermediate Gear Level Plug (0) (Check level) **10**
- Tramming Motor Drive Gear Level Plug (0) (Check level) **10**
- Turret Base (0) **10 GAA**
- Deck and Frame Pivot (0) **10 GAA**
- Towing Hitch (0) (2 places) **100 GAA**
- Tramming Motor Drive Gear Drain Plug (0) (Drain and refill) (See Note 4) **C/MR**

TOP VIEW

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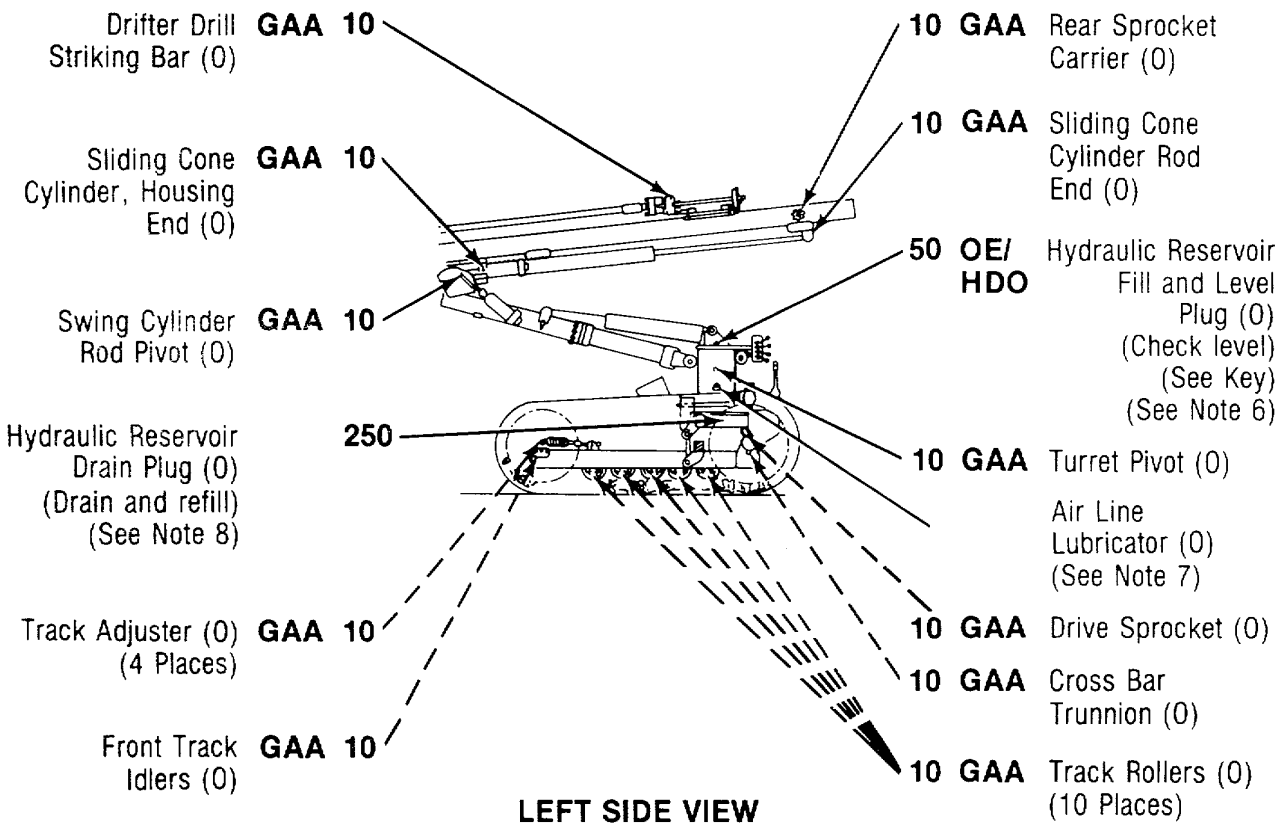
LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

- Idler Sprockets (0) **GAA 10**
- Centralizer (0) **GAA 10**
- Front Sprocket Carrier (0) **GAA 5**
- Feed Motor Gearcase Fill Plug (0) (See Key) **GO**
- Feed Motor Gearcase Level Plug (0) (Check level) (See Note 5) **10**

- C/MR** Feed Motor Gearcase Drain Plug (0) (Drain and refill) (See Note 4)
- 10 GAA** Feed Motor Rear Bearing (0)
- 10 GAA** Feed Motor Front Bearing (0)

FEED MOTOR CENTRALIZER, AND FRONT SPROCKET CARRIER.



*- KEY -

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES			INTERVALS
		Above + 15°F (Above - 9°C)	+ 40° to -15° (+ 4° to - 26°C)	+ 40° to - 65° (+ 4° to - 54°C)	
OE/ HDO - Lubricating Oil, Internal Combustion Engine, Tactical Service OEA - Lubricating Oil, Internal Combustion, Arctic - Air line Lubricator Reservoir	8 qts. (7.56 L)	OE/HDO 30	OE/HDO 10		C/MR-Condition Monitor Intervals given are in hours of normal operation.
- Hydraulic Reservoir - Oil Can Points (See Note 2)	28 qts. (26.48 L)		OEA (See Note 1)		
GO - Lubricating Oil, Gear Multipurpose - Feed Motor Gearcase - Final Drive - Trammig Motor Drive Gear - Trammig Motor Intermediate Gear	1/4 qt. (0.118 L) 1/2 qt. ea (0.473L) 1-13/16 qts. ea (1.74 L) 1/16 qt. ea (0.06 L)	GO 80W/90	GO 80W/90	GO 75W	
GAA - Grease, Automotive and Artillery		ALL TEMPERATURES			

For Arctic operation refer to FM 9-207

* See Note 10 for lubricant specification number.

NOTES:

1. FOR OPERATION OF EQUIPMENT in PROTRACTED COLD TEMPERATURES BELOW -150F (-26°C). Remove lubricants prescribed in Key for temperatures above -150F (-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 linkage, pins, springs, hinges and all exposed adjusting threads with OE/HDO.

3. AIR LINE LUBRICATOR RESERVOIR. Fill cap must be tight for proper operation. Before removing fill cap or drain plug, close air supply line valve and run air motor until pressure is relieved.

4. FINAL DRIVE-TAMMING MOTOR DRIVE GEAR-FEED MOTOR GEARCASE. Check level each 10 hours. Change gear lubricant only when required by maintenance repair action, contamination by water, or other foreign material. After refill, operate for five minutes, check for leaks and bring oil level to level plug opening.

5. FEED MOTOR GEARCASE. Check oil level with boom horizontal.

6. HYDRAULIC RESERVOIR FILL. Check level each 50 hours. After filling the hydraulic reservoir, operate the hydraulic system for 5 minutes. Check level and add oil as required to maintain the level within 6 inches from top of reservoir (3/4 full.)

7. AIR LINE LUBRICATOR. Adjust to permit 30 to 45 drops per minute to enter air lines.

8. HYDRAULIC RESERVOIR DRAIN. Before draining hydraulic reservoir, lower the boom and rest the drill carriage on the ground.

9. SLIDE SURFACES. Each 4 hours clean and lightly coat the drifter drill mounting slide, drill carriage mounting slide and the sliding cone cylinder hanger slide with GAA.

10. 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
(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 Rock Drilling Equipment.

TA 220572

