

LUBRICATION

12-19. LUBRICATION.

The lubrication chart (figure 12-2) illustrates each area which requires lubrication with grease-type lubricant. The legend of this illustration lists items to be lubricated.

1. After each day of operation in rain, snow, or after washing helicopter, all exposed control bearings should be purge-lubricated to remove trapped moisture and ensure a lube film is applied to susceptible surfaces.
2. Parking helicopters outside in a heavy dew environment requires that all exposed control bearings be purge-lubricated every seven days to ensure that no voids exist that could trap moisture.
3. If helicopter is stored for periods in excess of 45 days without operation or service, purge-lubricate all bearings.

12-20. LUBRICATION SYMBOLS.

The lubrication chart uses symbols and abbreviations to indicate the required lubricant, method of application, and time interval for lubrication of each component listed. A key on the chart indicates meaning of symbols and abbreviations.

12-21. LUBRICANT, 204-040-755-005, RESTRICTIONS.

MATERIALS REQUIRED

Refer to BHT-ALL-SPM for specification and source.

| NUMBER | NOMENCLATURE |
|--------|-----------------------|
| C-015 | Lubricant (Tube Pack) |

NOTE

Do not exceed lubrication intervals specified on lubrication chart.

1. Lubricant, 204-040-755-005, lubricant (tube pack) (C-015) shelf life is 4 years from packing date on container.

2. In-stock components which utilize 204-040-755-005 lubricant must be pulled from stock and relubricated upon expiration of the original 4-year shelf life of the lubricant.

3. Once a component lubricated with 204-040-755-005 lubricant goes into service, the relubrication interval is dictated by the calendar and service-time schedule whether the component is installed on a helicopter or is subsequently removed and returned to stock as a spare on the shelf.

4. Lubricant in original tubes and components containing 204-040-755-005 lubricant should be stored at moderate ambient temperatures, preferably less than 80°F(26.7°C). Elevated storage temperatures promote oil separation from the lubricant.

12-22. FLEXIBLE COUPLING LUBRICATION LOG.

MATERIALS REQUIRED

Refer to BHT-ALL-SPM for specification and source.

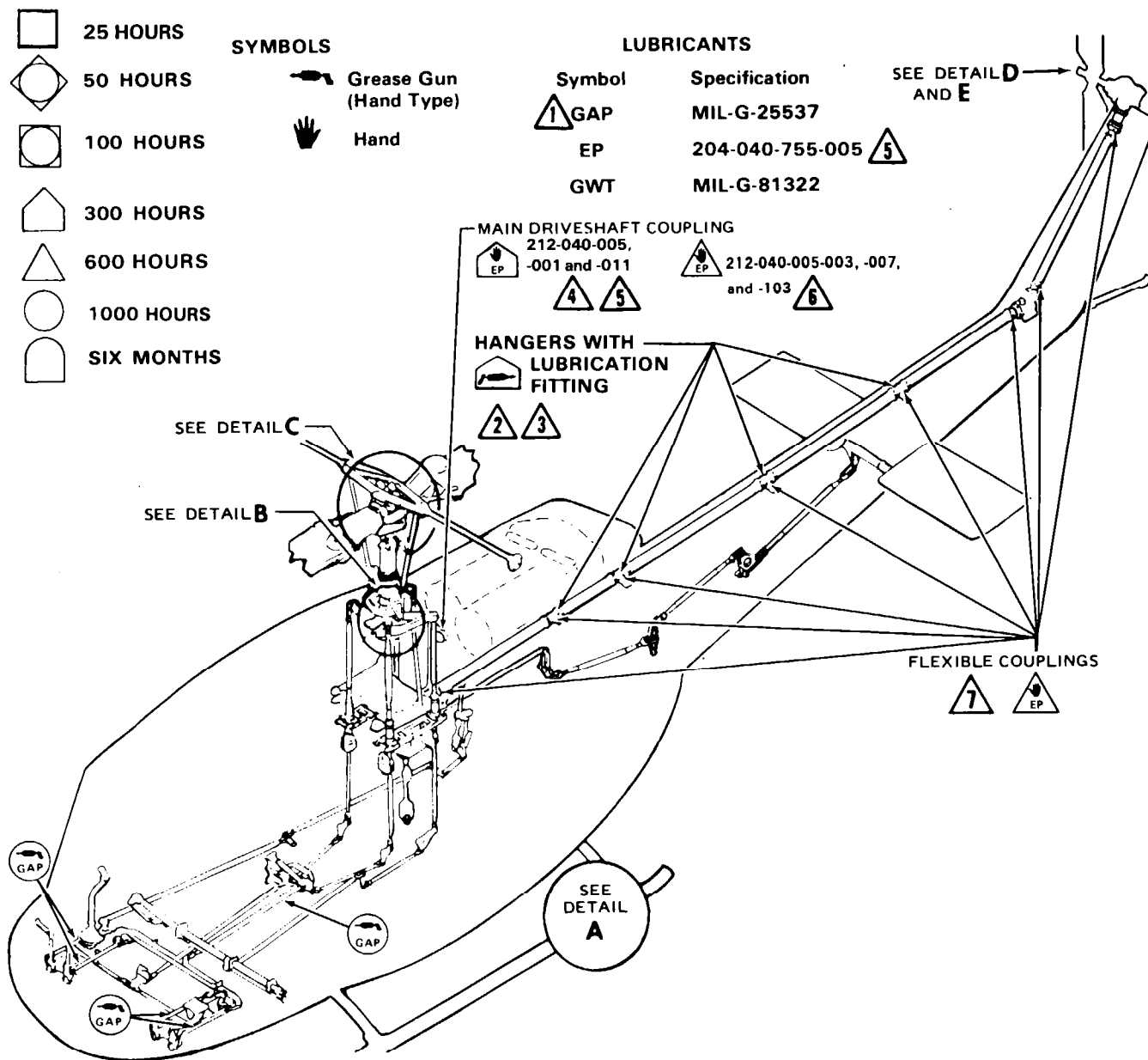
| NUMBER | NOMENCLATURE |
|--------|-----------------------|
| C-015 | Lubricant (Tube Pack) |

A flex coupling lubrication log similar to one shown on table 12-2 shall be maintained any time a component using lubricant (tube pack) (C-015) is installed on the helicopter. This log shall list date lubricant was applied in component. This lubricant carries an operational hour and a calendar requirements specified in this chapter. Lubricant shall be replaced at requirement occurring first (hours/months).

Table 12-2. Flex couplings lubrication log (EXAMPLE ONLY)

| PART NUMBER | NOMENCALTURE | DATE LUBRICATED | AIRFRAME HOURS | DATE LUBRICATED | AIRFRAME HOURS |
|-------------|---|-----------------|----------------|-----------------|----------------|
| | Main Driveshaft | | | | |
| | Transmission Tail Rotor Drive Output Coupling | | | | |
| | Tail Rotor Driveshaft Hanger (8) | | | | |
| | Intermediate Gearbox Input Quill | | | | |
| | Intermediate Gearbox Output Quill | | | | |
| | Tail Rotor Gearbox Input Quill | | | | |
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(TABLE I.D. 911246)



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Figure 12-2. Lubrication chart (sheet 1 of 4)

1. Axle pivot point
2. Actuating cylinder trunnions $\triangle 9$
3. Wheel bearings
4. Pin assembly
5. Securing pin
6. Collective sleeve bearing
7. Scissor bearings
8. Swashplate bearings
9. Collective lever trunnion $\triangle 9$
10. Outer control plate trunnions $\triangle 9$
11. Control plate trunnions $\triangle 9$
12. Scissors pivot cover plate $\triangle 8$
13. Collective sleeve splines
14. Scissors pivot needle bearing $\triangle 8$
(P/N 212-010-407 Scissors)
15. Crosshead bearing $\triangle 10$
16. Antitorque control lever
17. Pitch change link universal
18. Stabilizer centerframe bearing $\triangle 8$
19. Mixing lever bearings
20. Trunnion bearing $\triangle 12$
21. Link assembly $\triangle 14$

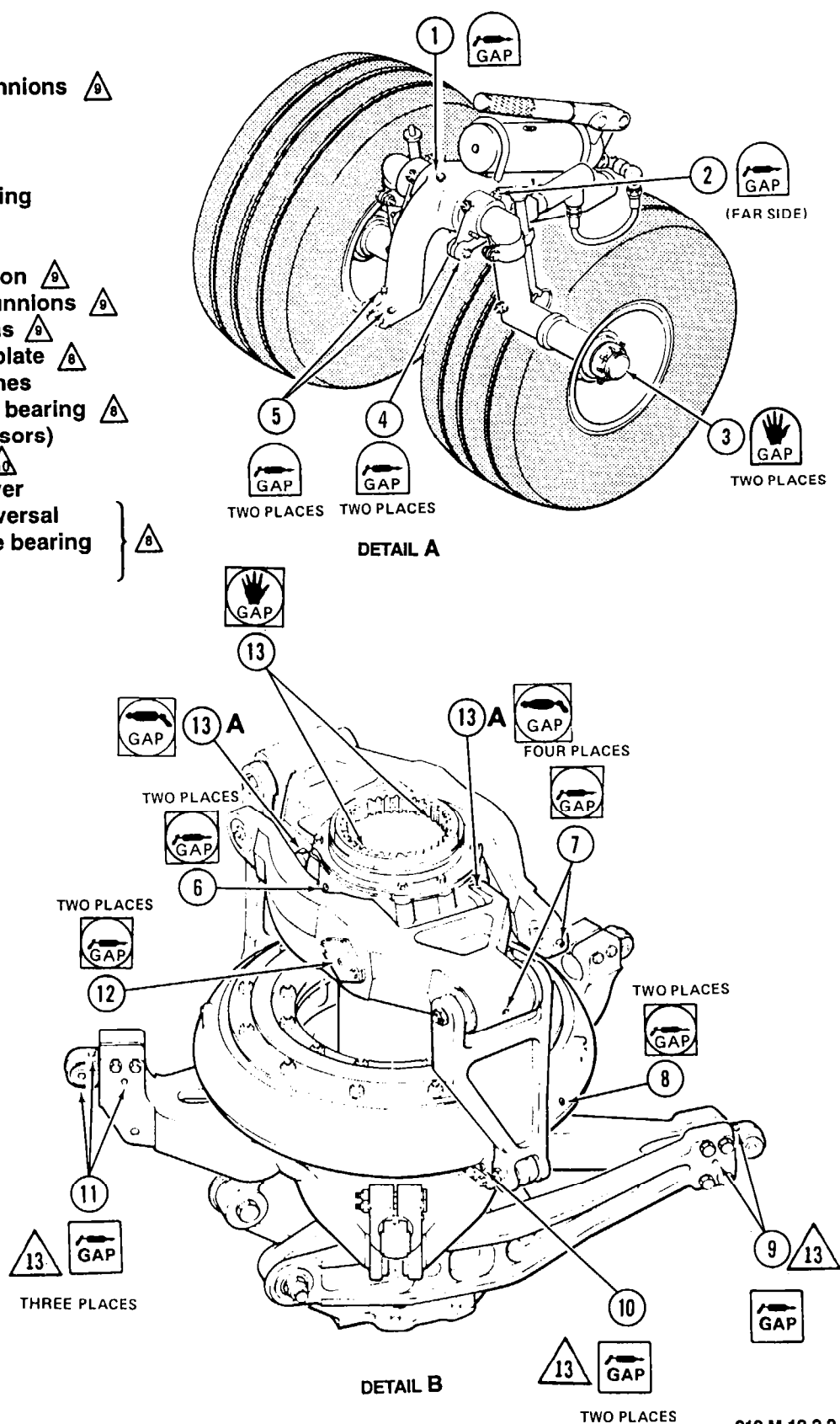


Figure 12-2. Lubrication chart (sheet 2)

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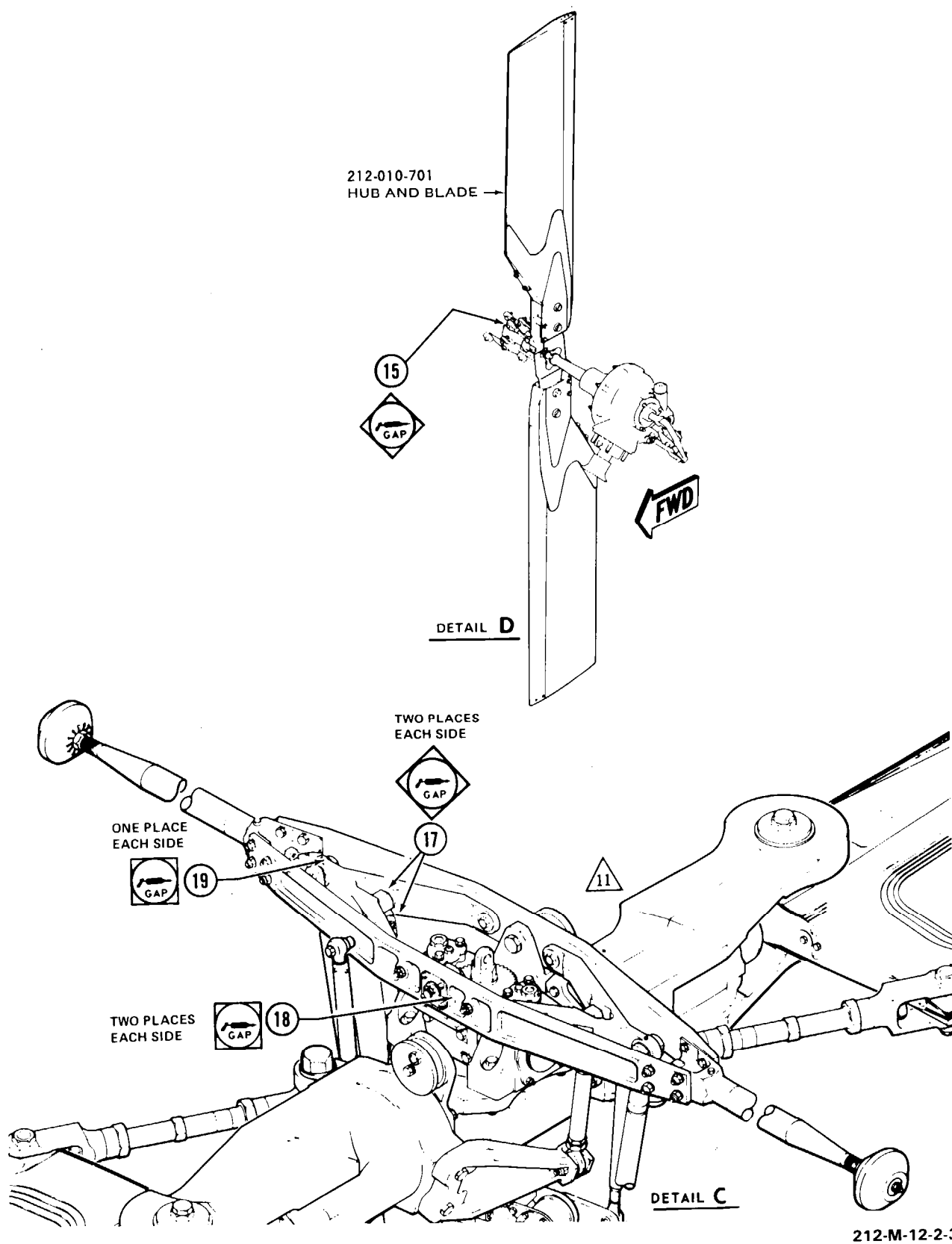
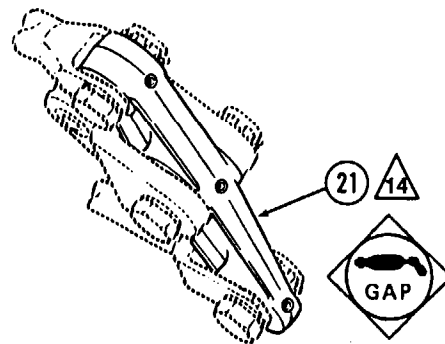
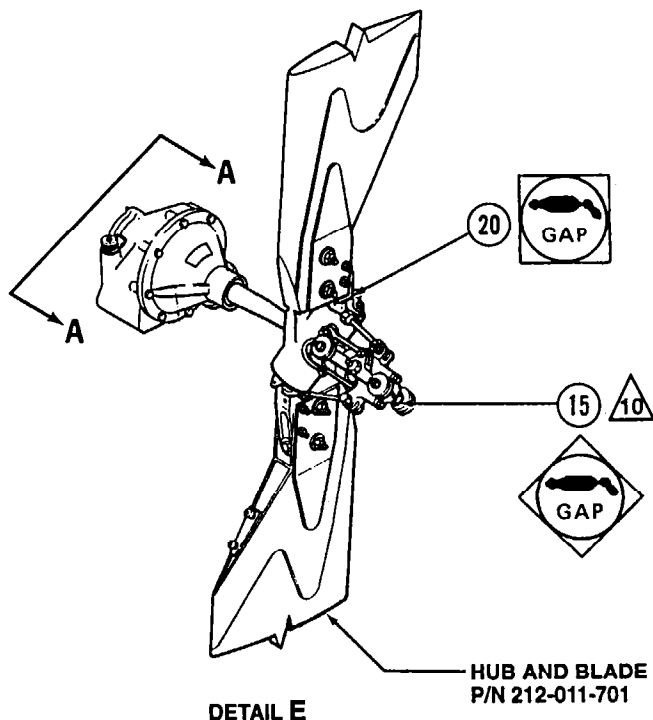


Figure 12-2. Lubrication chart (sheet 3)



VIEW A-A

NOTES

- 1 MIL-G-81322 grease is recommended for use in all applications which previously used MIL-G-25537 grease; however, intermixing of grease is prohibited. When changing from one grease to the other, purge until previous grease is depleted. Exercise same care when switching brands of grease as when switching types of grease.
- 2 Lubricate hanger bearing by slowly pumping grease into fitting until grease may be seen around bearing seal. Use caution because excessive pump pressure may push seal from bearing.
- 3 Lubricate tail rotor hanger bearing with Mobil 28 conforming to MIL-G-81322 grease.
- 4 Lubricate couplings on P/N 212-040-005-011 main driveshaft ever 300 hours or 3 months; whichever occurs first.
- 5 Grease, 204-040-755-5, has a shelf storage life of 4 years whether stored in original container or in a component. If a component is not put in service prior to expiration of the 4 year shelf life of the grease, component shall be relubricated prior to installation on a helicopter. After initial operation of component on the helicopter, refer to lubrication chart for lubrication intervals.
- 6 Lubricate couplings on P/N 212-040-005-003, -007, and -103 main driveshaft ever 600 hours or 12 months; whichever occurs first.
- 7 Lubricate tail rotor driveshaft couplings ever 600 hours or six months; whichever occurs first.
- 8 Lubricate more frequently if conditions warrant.
- 9 Purge lubricate.
- 10 Do not overlubricate crosshead bearing. Two shots of grease each 50 hours of operation is considered adequate.
- 11 If T.B. 212-81-56 has been complied with, purge lubricate main rotor grips and trunnions with MIL-G-81322 each 50 hours of operation. Refer to T.B. 212-81-56 for lubrication instructions.
- 12 Lubricate until grease passes seal.
- 13 Every 4th 25 (100 hours) rotate bearing 180° and purge lubricate (Chapter 5).
- 14 Lubricate lever assembly P/N 209-011-712-101 every 50 hours of operation.

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Figure 12-2. Lubrication chart (sheet 4)