

LANDING CRAFT, UTILITY
(LCU-2000 CLASS)
NSN 190S-01-1541191

Reference TM 55-1905-223-10, TM 55-1905-223-24 - Series. C 9100-IL

Reporting of Errors

you can improve this publication by calling attention to errors and by recommending improvements and by stating your reasons for the recommendations. Your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) should be mailed directly to Commander, US Army Troop Support Command, ATTN: AMSTR-MTS, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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Intervals (on condition or hard time) and the elated task-hour times are based on normal operations. The task-hour time specified is the time, you need to do all the services prescribed for a particular interval. On-condition (OC) oil sample intervals shall be applied unless changed by the Army Oil Analysis Program (AOAP) laboratory. 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 period so flow activity. If extended, adequate preservation precautions must be taken. Hard tire intervals will be applied in the event AOAP laboratory support is not available.

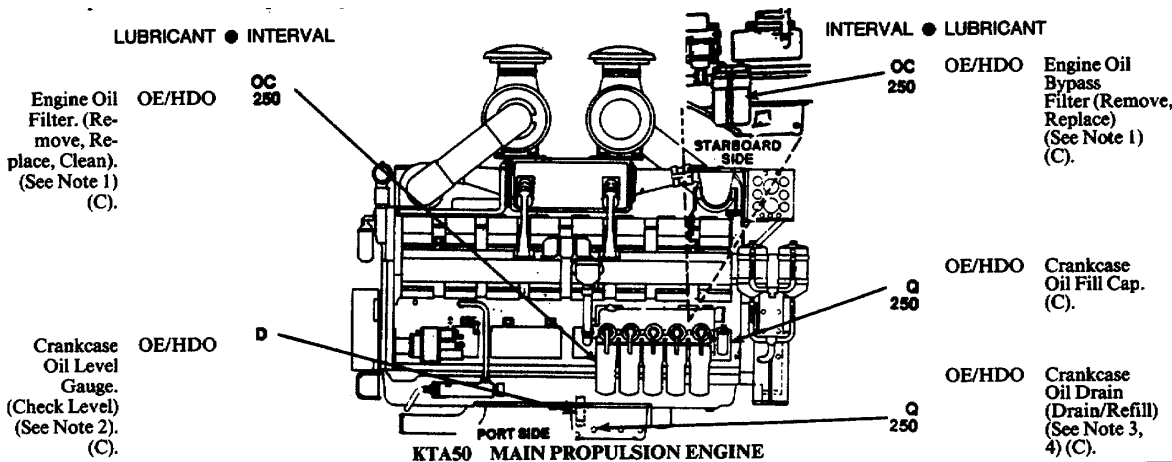
Clean fittings before lubricating. Clean parts with dry CLEANING SOLVENT (SD), type 11 or equivalent. Relubricate all areas exposed to water after vessel operation.

Dry before lubricating. Dotted arrow points indicate lubrication on both sides of the equipment.

Level of maintenance. The lowest level of maintenance authorized to lubricate a point is indicated by one of the following: (C) Operator/crew; (O) Unit Maintenance.

For arctic operation refer to FM 9-207.

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



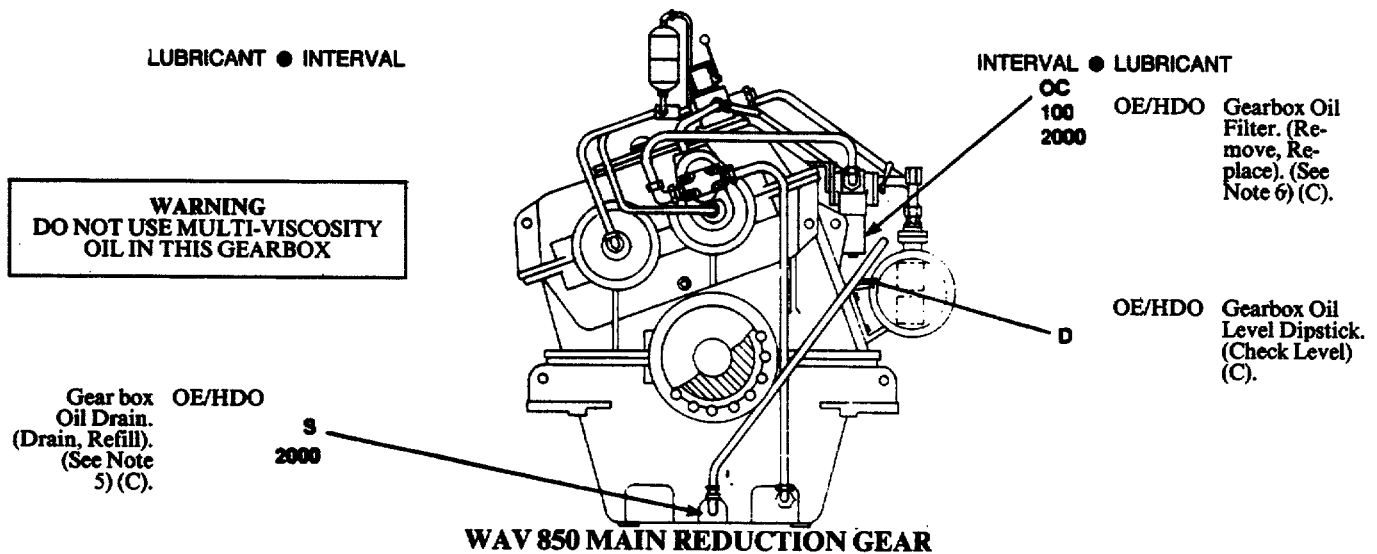
TOTAL TASK-HOURS*		TOTAL TASK-HOURS*	
INTERVAL	TASK HOURS	INTERVAL	TASK HOURS
Q OR 250	1.0	D	0.1
		OC OR 250	1.0

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
OE/HDO (MIL-L-2104) Lubricating oil, internal combustion engine, tactical service	55 gallons	15W/40		D-Daily Q-Quarterly (3 months) OC-On Condition

Notes:

1. Install filters, fill crankcase. Operate at idle and inspect for leaks. Shut off engine, and allow 5 minutes for oil to drain to crankcase. Check oil level with dipstick.
2. Check crankcase level with engine shutdown.
3. A sample of oil shall be sent to an AOAP Laboratory for analysis at an interval of 50 hours or 30 days. Refer to TB43-02 10 for sampling requirements.
4. When AOAP Laboratory support is not available, drain and refill crankcase at 250 hours or 6 months.



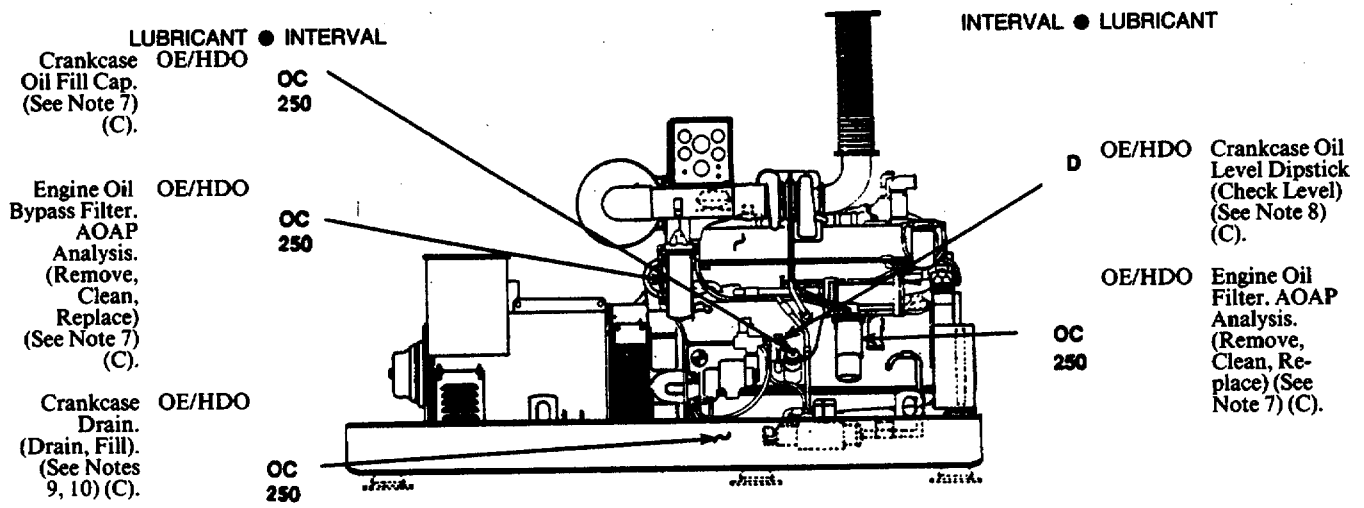
TOTAL TASK-HOURS*		TOTAL TASK-HOURS*	
INTERVAL	TASK HOURS	INTERVAL	TASK HOURS
S or 2000	1.0	D OC or 100,2000	0.1 1.0

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
OE/HDO Lubricating oil, internal combustion engine, tactical service (MIL-L-2104)	10.5 gallons	15W/40	D-Daily Q-Quarterly (3 months) OC-On Condition

Notes:

5. A sample of oil shall be sent to an AOAP Laboratory for analysis at an interval of 50 hours or 30 days. Refer to TB43-02 10 for sampling requirements.
6. There are two filters in the main oil circuit with a changeover lever.



NTA 855-GC SHIP SERVICE GENERATOR SET

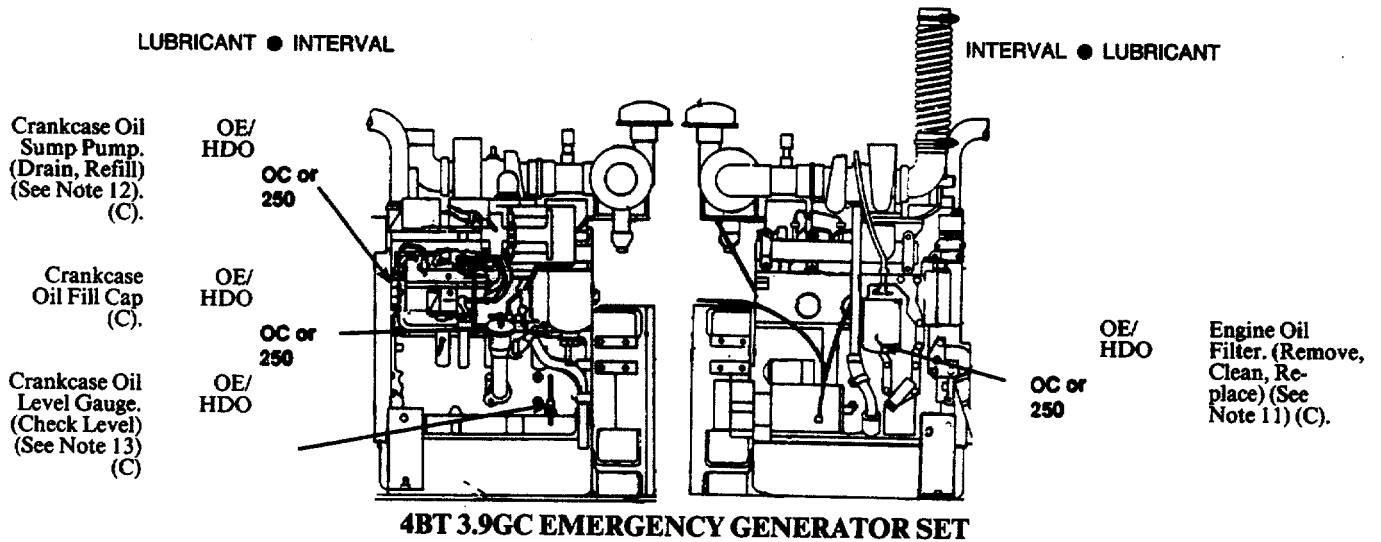
TOTAL TASK-HOURS*		TOTAL TASK-HOURS*	
INTERVAL	TASK HOURS	INTERVAL	TASK HOURS
OC or 250	1.0	D OC or 250	0.1 1.0

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
OE/HDO Lubricating oil, (MIL-L-2104) internal combustion engine, tactical service	11 gallons	15W/40		D-Daily OC-On Condition

Notes:

7. Install filters, fill crankcase. Operate at idle and inspect for leaks. Shut off engine, and allow 5 minutes for oil to drain to crankcase. Check oil level with dipstick.
8. Check crankcase level with engine shutdown.
9. A sample of oil shall be sent to an AOAP Laboratory for analysis at an interval of 50 hours or 30 days. Refer to TB43402 10 for sampling requirements.
10. When AOAP Laboratory support is not available, drain and refill crankcase at 250 hours or 6 months.



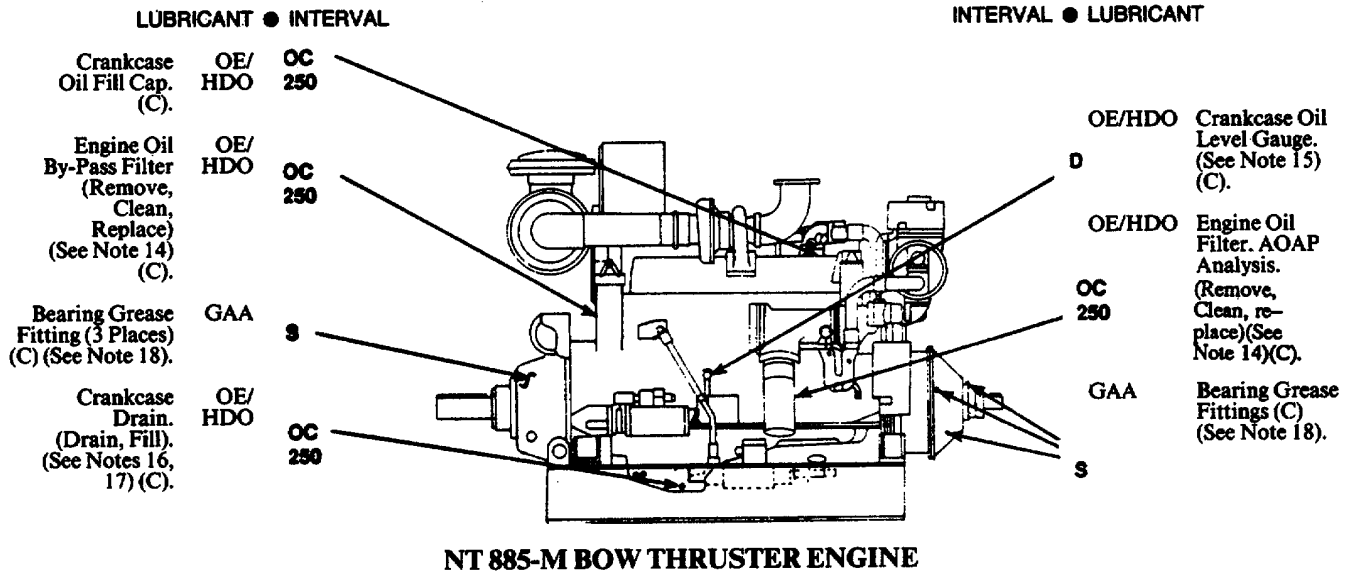
TOTAL TASK-HOURS*		TOTAL TASK-HOURS*	
INTERVAL OC or 250	TASK HOURS 1.0	INTERVAL D	TASK HOURS 0.1

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
OE/HDO (MIL-L-2104) Lubricating oil, internal combustion engine, tactical service	10 gallons	15W/40	D-Daily OC-On Condition

Notes:

11. Install filters, fill crankcase. Operate at idle and inspect for leaks. Shut off engine, and allow 5 minutes for oil to drain to crankcase. Check oil level with dipstick.
12. Check crankcase level with engine shutdown.
13. When AOAP Laboratory support is not available, drain and refill crankcase at 250 hours or 6 months.



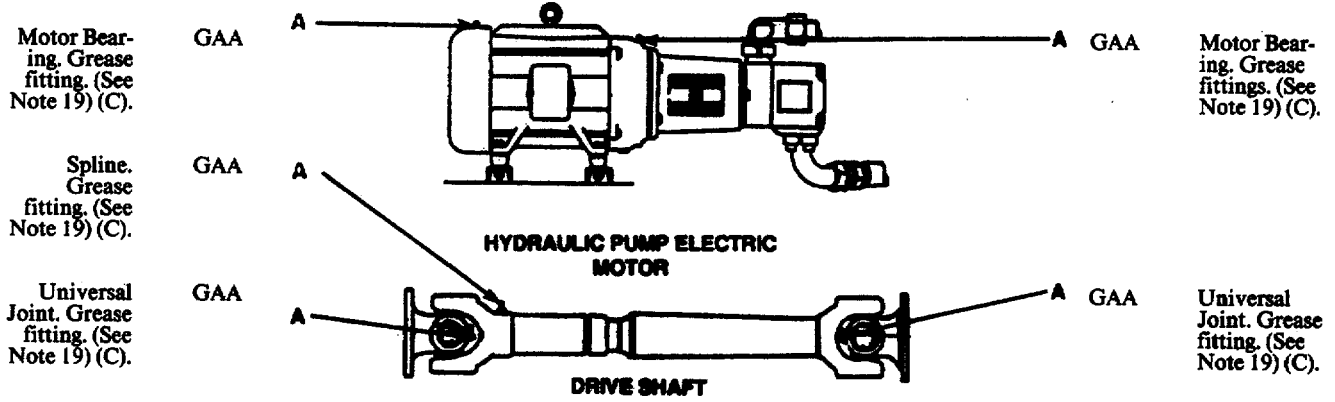
TOTAL TASK-HOURS*		TOTAL TASK-HOURS*	
INTERVAL	TASK HOURS	INTERVAL	TASK HOURS
OC or 250	1.0 0.5	D OC or 250 S	0.1 1.0

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
OE/HDO (MIL-L-2104) Lubricating oil, internal combustion engine, tactical service	11 gallons	15W/40		D-Daily S-Semiannually OC-On Condition
GAA (MIL-G-10924) Grease, automotive and artillery	As Required			

Notes:

14. Install filters, fill crankcase. Operate at idle and inspect for leaks. Shut off engine, and allow 5 minutes for oil to drain to crankcase. Check oil level with dipstick.
15. Check crankcase level with engine shutdown.
16. A sample of oil shall be sent to an AOAP Laboratory for analysis at an interval of 50 hours or 30 days. Refer to TB43-0210 for sampling requirements.
17. When AOAP Laboratory support is not available, drain and refill crankcase at 250 hours or 6 months.
18. Clean grease fitting. Apply 2 or 3 strokes of grease from a hand held lubrication gun. Wipe off excess.



SPJ-55 BOW THRUSTER WATER JET

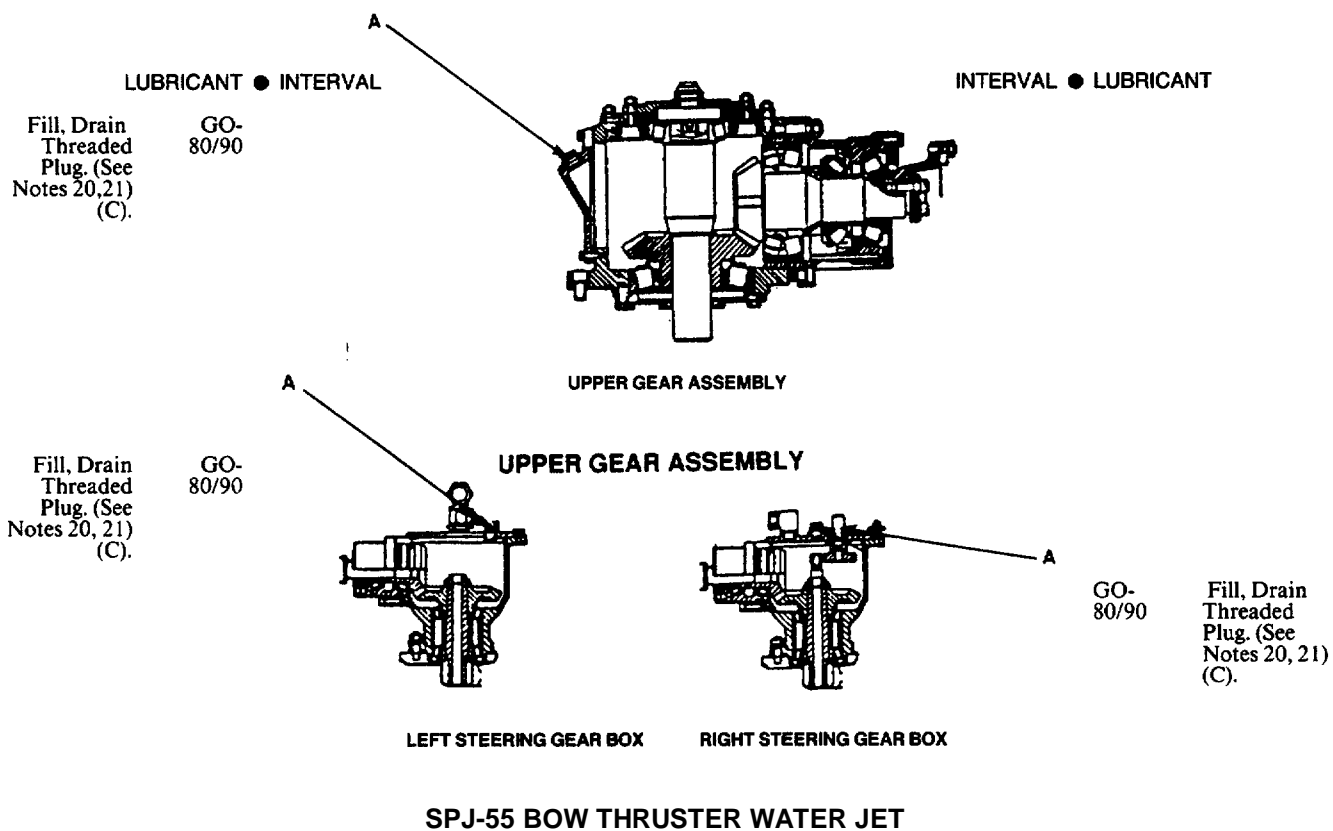
TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
A	0.4

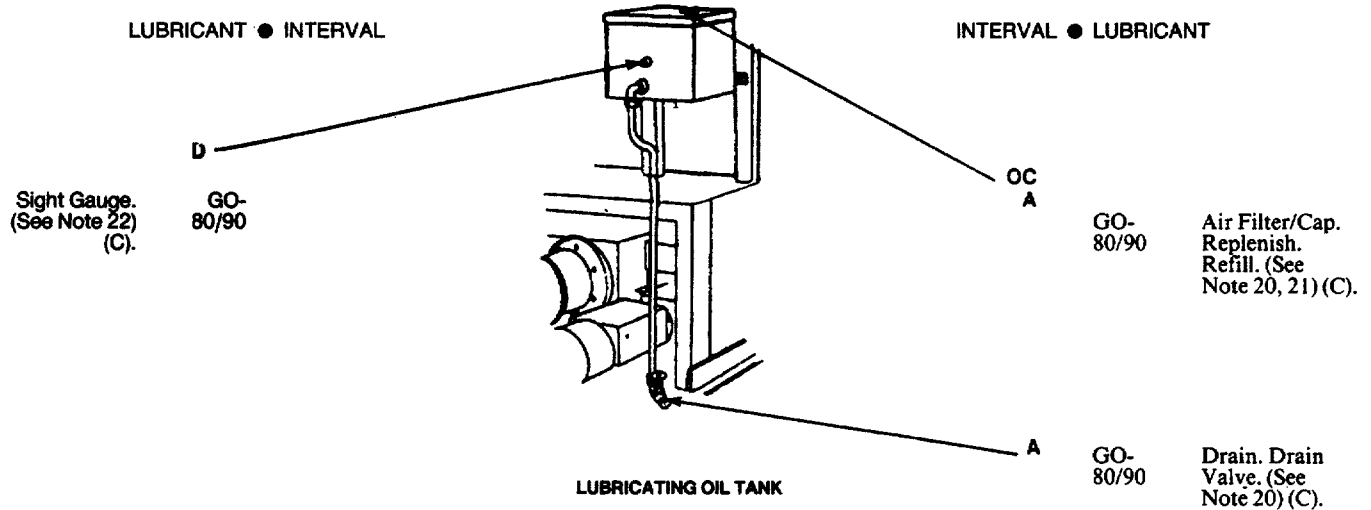
-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GAA Grease, automotive (MIL-G-10924) and artillery	11 gallons	Grease	A-Annually (12 months)

Notes:

19. Clean grease fitting. Apply 3 or 4 strokes of grease. Wipe off excess.





TOTAL TASK-HOURS*		TOTAL TASK-HOURS*	
INTERVAL	TASK HOURS	INTERVAL	TASK HOURS
D	0.1	A	1.0
A	1.0	OC	1.0

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GO-80/90 (MIL-L-2105) Lubricating oil, gear, multipurpose	44 quarts	80/90(0-226)	D-Daily A-Annually (12 months) OC-On Condition

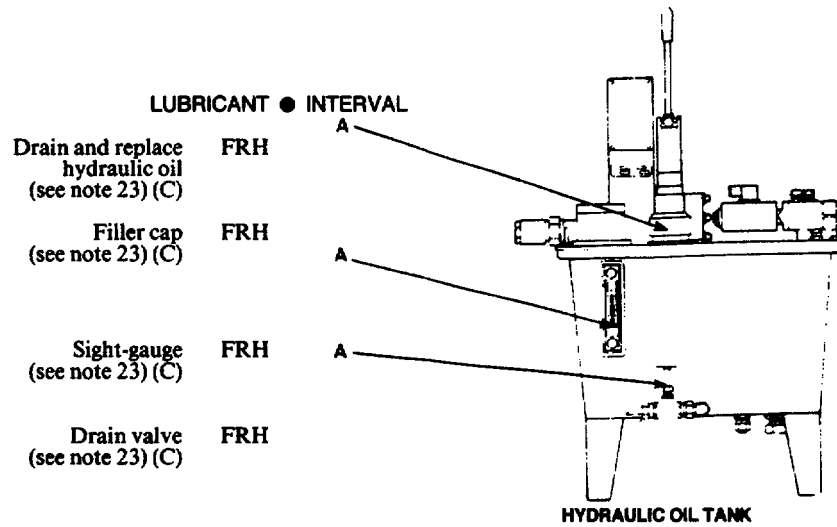
Notes:

20. Place drain pan under drain valve. Remove oil tank air filter. Open valve and drain oil. Close valve and wipe spillage. Remove screw plugs on both left and right steering gear boxes and upper gear assembly.

Use suction tube of oil evacuation pump to pump oil from both gear boxes and upper gear assembly. Reinstall screw plugs and add oil to oil tank until level reaches middle of gauge glass. Clean and reinstall air filter.

21. Recheck oil level during first few hours of operation.

22. Check oil level daily and replenish as needed to maintain level at middle of sight gauge.



- | LUBRICANT ● INTERVAL | |
|---|-----|
| Drain and replace hydraulic oil (see note 23) (C) | FRH |
| Filler cap (see note 23) (C) | FRH |
| Sight-gauge (see note 23) (C) | FRH |
| Drain valve (see note 23) (C) | FRH |

SPJ-55 BOW THRUSTER WATER JET

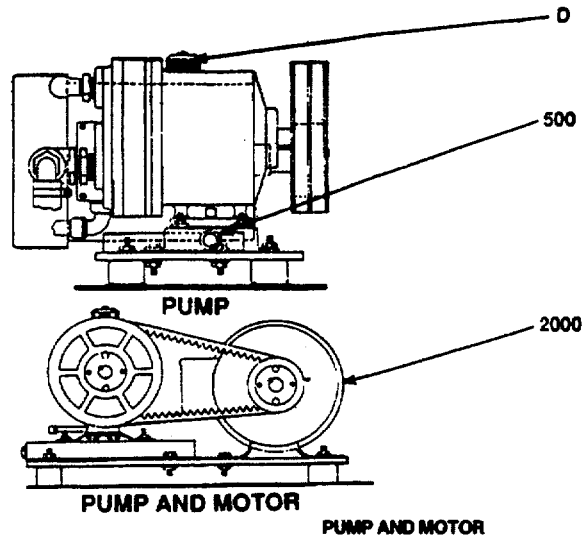
TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
A	1.0

- KEY -

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
FRH (MIL-H-46170B) (H-544) Fluid, hydraulic petroleum inhibited	11 gallons	Fluid, hydraulic	A-Annually (12 months)

Notes:

23. Open drain valve(s) and drain reservoir(s). Close drain valve(s). Remove filler cap(s) and fill reservoirs(s) to the HIGH mark on Sight-gauge(s) with hydraulic fluid.



- OE/ HDO Check oil.
Fill Plug/Dipstick (See Note 24)(C).
- OE/ HDO Change Oil. Drain, Refill. (See Note 25)(C).
- GAA Motor Bearings Grease Fittings. (See Note 26 (C).

PW800 REVERSE OSMOSIS WATER MAKER

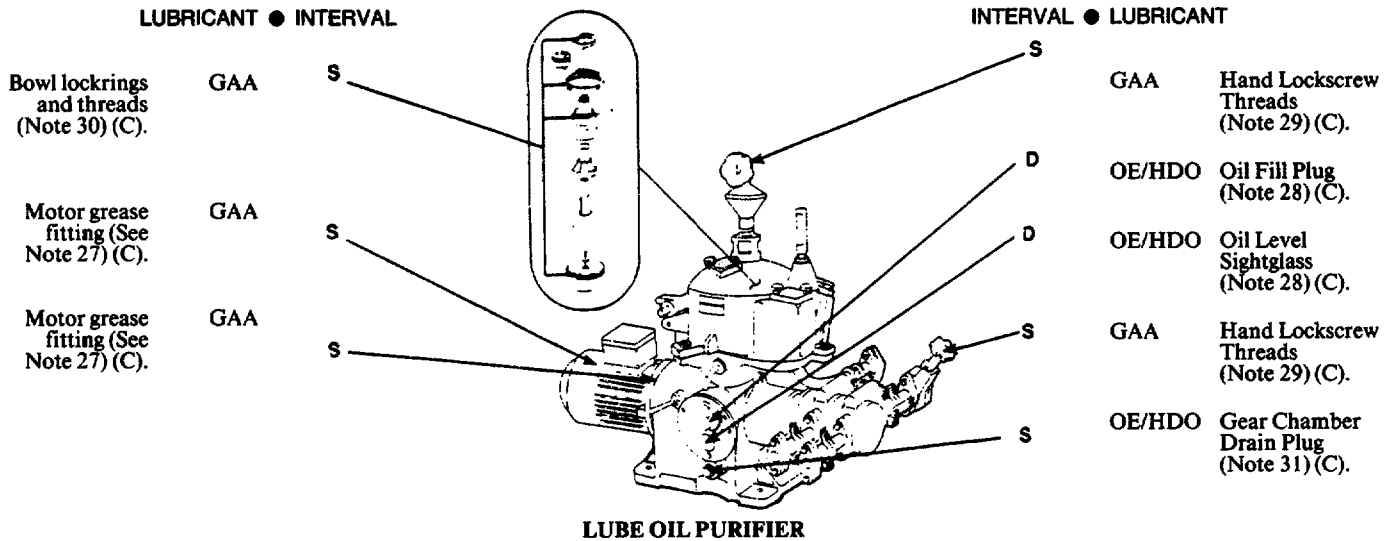
TOTAL TASK-HOURS*		TOTAL TASK-HOURS*	
INTERVAL	TASK HOURS	INTERVAL	TASK HOURS
D 500	1.0	200	0.2

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
OE/HDO (MIL-L-2104)	Lubricating oil, engine	1 quart	D-Daily
GAA (MIL-G-10924)	Grease, automotive and artillery	As required	

Notes:

- 24. Oil level check. Unscrew fill plug/dipstick and check oil level in pump. Firl to full mark on dipstick if required.
- 25. Change pump housing oil. Main power off. Remove panel. Remove oil plug. Slip tube over drain opening. Drain to container. Replace plug, refill, and reinstall panel.
- 26. Grease motor. Power off. Remove panel. Clean lube fitting Inject 2 or 3 strokes from grease gun. Wipe off excess. Reinstall panel.



TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
D	0.2
S	0.5

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
GAA (MIL-L-2104) Grease, automotive and artillery	As required	Grease		D-Daily S-Semiannually (6 months)
OE/HDO (MIL-L-2104) Lubricating oil, engine	As required	Lubricating oil 15W/40		

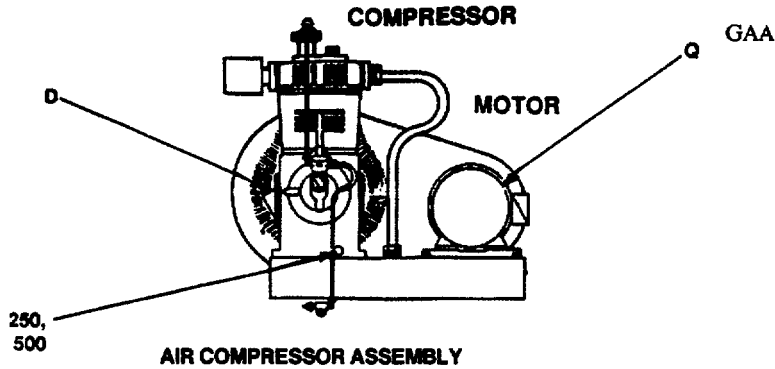
27. Clean grease fitting. Apply 3 or 4 strokes of grease. Wipe off excess.
28. Check oil level daily and replenish as needed to maintain level at middle of sight gauge.
29. Apply grease evenly with small brush or by hand.
30. Hood assembly cover must be opened for access to purifier bowl (TM55-1905- 223-24-18). Unscrew bowl lockrings and grease threads by hand or small brush.
31. Remove drain plug and drain gear oil. Replace drain plug and fill with clean oil until oil level is at half-way point in sightglass.

NOTE

Each fourth changing, gear chamber should be flushed with a thin-bodied oil (diesel) before refilling with new oil.

Oil Level Gauge. Check Level.(C)
OE/
HDO

Crankcase Oil Drain. (See Note 32.)(C).
OE/
HDO



GAA Motor Bearings. Grease fittings. (See Note 33)(C).

TOTAL TASK-HOURS*		TOTAL TASK-HOURS*	
INTERVAL	TASK HOURS	INTERVAL	TASK HOURS
D 250,500	0.1 1.0	Q	0.5

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS	
		ALL TEMPERATURES		
OE/HDO (MIL-L-2104)	Lubricating oil, engine	9.5 pints	15W/40	D-Daily Q-Quarterly (3 months)
GAA (MIL-G-10924)	Grease, automotive and artillery	As required	All Temperatures Grease	

Notes:

32. Change oil after 250 hours; then every 500 hours. Remove plug then flush crankcase and oil strainer with an approved petroleum based solvent. Drain solvent. Reinstall plug and fill with oil.

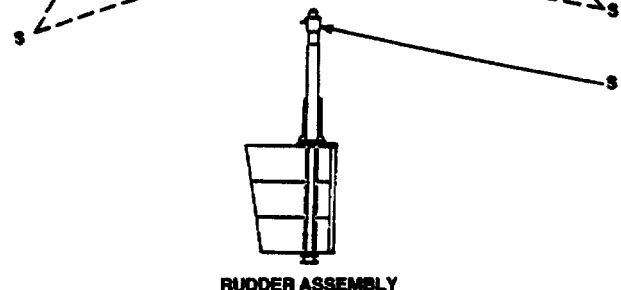
33. Grease motor bearings using hand lubricating gun. Apply one stroke (one quarter ounce) to grease fitting.

Tiller Arm, Grease fitting. (See Note 34) (C). GAA



GAA Tiller Arm, Grease fitting. (See Note 34) (C).

Hydraulic Cylinder, Grease fittings. (See Note 34) (C). GAA



GAA Hydraulic Cylinder, Grease fittings (See Note 34)(C).

GAA Upper Bearing Housing, Grease fitting. (See Note 34) (C) 2 places.

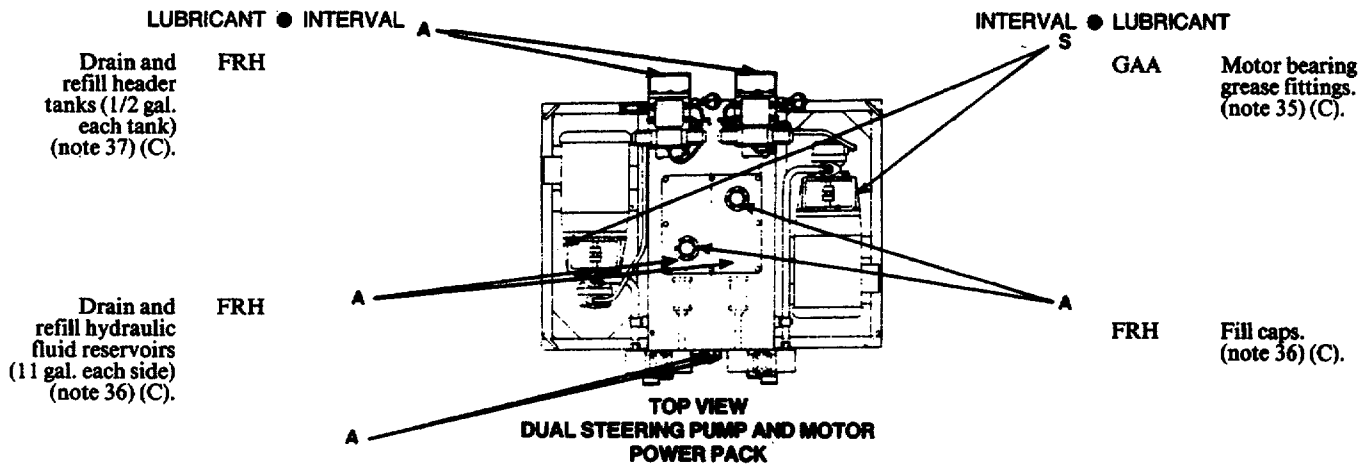
TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
S	1.0

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
GAA (MIL-G-10924) Grease, automotive and artillery	As required	Grease		S-Semiannually (6 months)

Notes:

34. Grease daily when in use. Use hand held lubrication gun. Apply until fresh grease exudes from bearing. Wipe off excess.



STEERING GEAR SYSTEM

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
S	0.5
A	1.0

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
GAA (MIL-G-10924)	Grease, automotive and artillery	As required		S-Semiannually (6 months) A-Annually (12 months)
FRH (MIL-H-46170B) (H-544)	Fluid, hydraulic petroleum inhibited	22 gal. (reservoir) ½ gal. (header tank)	Fluid, hydraulic	

Notes:

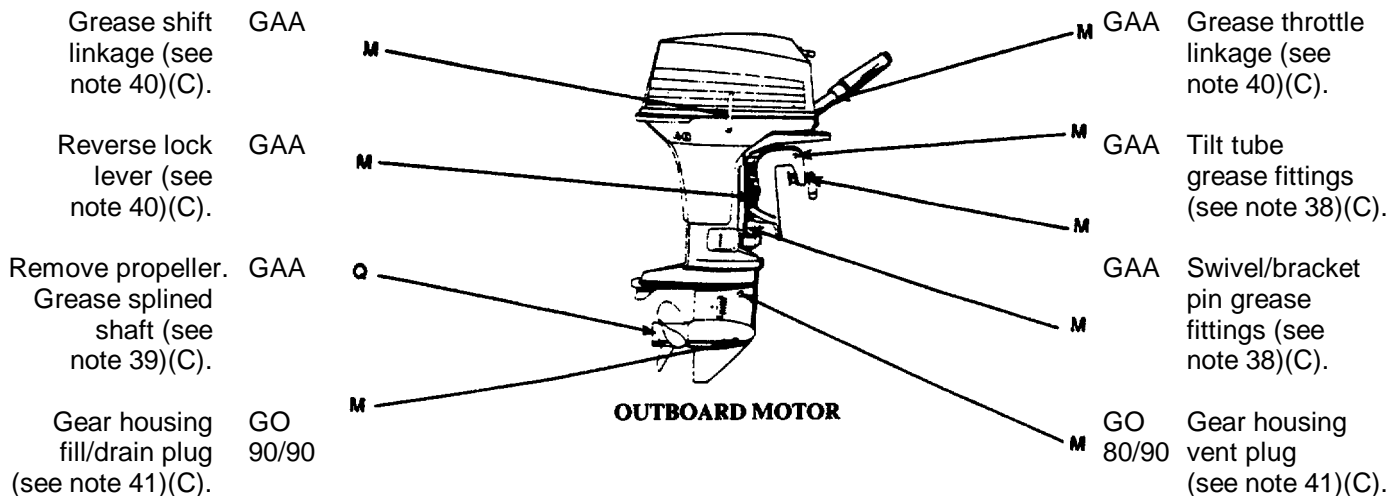
35. Grease daily when in use. Use hand held lubrication gun. Apply until fresh grease exudes from bearing. Wipe off excess.

36. Open drain valve(s) and drain reservoir(s). Close drain valve(s). Remove filler cap(s) and fill reservoir to the HIGH mark on Sight-gauge(s) with hydraulic fluid.

37. Disconnect line on bottom of header tanks and drain. Remove filler plug. Connect bottom line and refill header tanks with clean hydraulic fluid (112 gal. to each tank).

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT



TOTAL TASK-HOURS	
INTERVAL	TASK-HOURS*
M	0.2
Q	0.5

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
GAA Grease, automotive (MIL-G-10924) and artillery	As required	Grease		M-Monthly Q-Quarterly (3 months)
GO 80/90 Lubricating oil, (MIL-L-2105) gear, multipurpose	As required	Lubricating oil, gear, multipurpose		

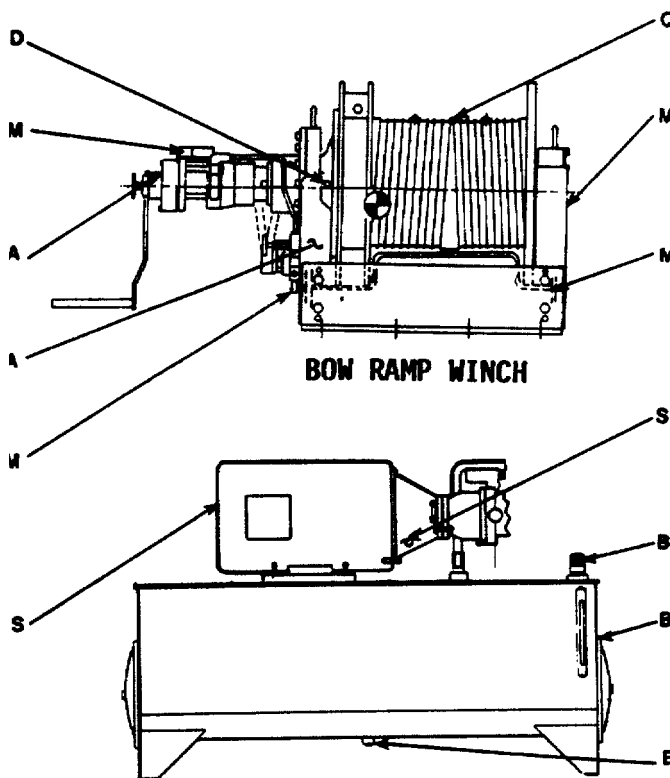
Notes:

- 38. Grease motor bearings using hand lubricating gun. Apply one stroke (one quarter ounce) to grease fitting.
- 39. Apply grease evenly with small brush or by hand.
- 40. Apply lubricant sparingly with small hand brush.
- 41. Remove fill/drain plug. Insert grease tube nozzle into fill/drain hole. Remove gear housing vent plug. Add gear oil until the oil starts to ooze from the vent plug hole. Install vent plug before removing grease tube nozzle. Install fill/drain plug.

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

- Oil level Check, (Note 47,42)(C). GO-80/90 D
- Interlock Switch, (See Note 45) (C). GAA M
- Emerg. Hand Crank. (See Note 46) (C). GAA A
- Gear Reducer. (See Note 47) (C). GO-80/90 H
- Slack Wire Limit Switch (See Note 45) (C). SSL S
- Grease Motor Bearing. (Note 43) (C). GAA



- GWR Wire Rope. (See Note 48) (C). Q
- GAA Outboard Drum Bearing. Grease Fitting. (See Note 44) (C). M
- GAA Slack Wire Detector Pivot Points. (See Note 48) (C). M
- GAA Hydraulic Power Pack. Grease Motor Bearings. (See Note 43) S
- FRH Sight glass. (Note 49) (C). B
- FRH Drain and Fill reservoir. (Note 49) (C). B

HYDRAULIC PUMP ELECTRIC MOTOR AND RESERVOIR FOR BOW RAMP WINCH BOW RAMP ASSEMBLY

TOTAL TASK-HOURS*		TOTAL TASK-HOURS*	
INTERVAL	TASK HOURS	INTERVAL	TASK HOURS
A	0.3	Q	0.3
M	0.5	S	0.3
D	0.1	B	1.0

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GO-80/90 Lubricating oil, (MIL-L-2105) gear, multipurpose	9 quarts	Lubricating oil, gear, multipurpose	D-Daily
GMP Grease, multipurpose	As Required	Grease, multipurpose	M-Monthly
GWR (MIL-G-18458)	As Required	Grease, wire rope, exposed gear	Q-Quarterly (3 months)
GAA (MIL-G-10924)	As Required	Grease	S-Semiannually (6 months)
SSL NSN 6850-00-880-7616 (MIL-S-8660)	As Required	Silicone Compound	A-Annually (12 months)
FRH (MIL-H-46170B)(H-544)	150 gallons	Fluid, hydraulic	B-Biennially (24 months)

Notes:

- 42. Recheck oil level during first few hours of operation.
- 43. Grease daily when in use. Use hand held lubrication gun. Apply until fresh grease exudes from bearing. Wipe off excess.
- 44. Five strokes of grease from hand lubricating gun at outboard drum bearings.
- 45. Clean and apply a light coat of silicone lubricant to slack wire limit switch and interlock switch.
- 46. Emergency hand crank, remove housing and apply a light coating of grease by hand or with a small brush to the ratchet dog and ratchet wheel teeth.

CAUTION

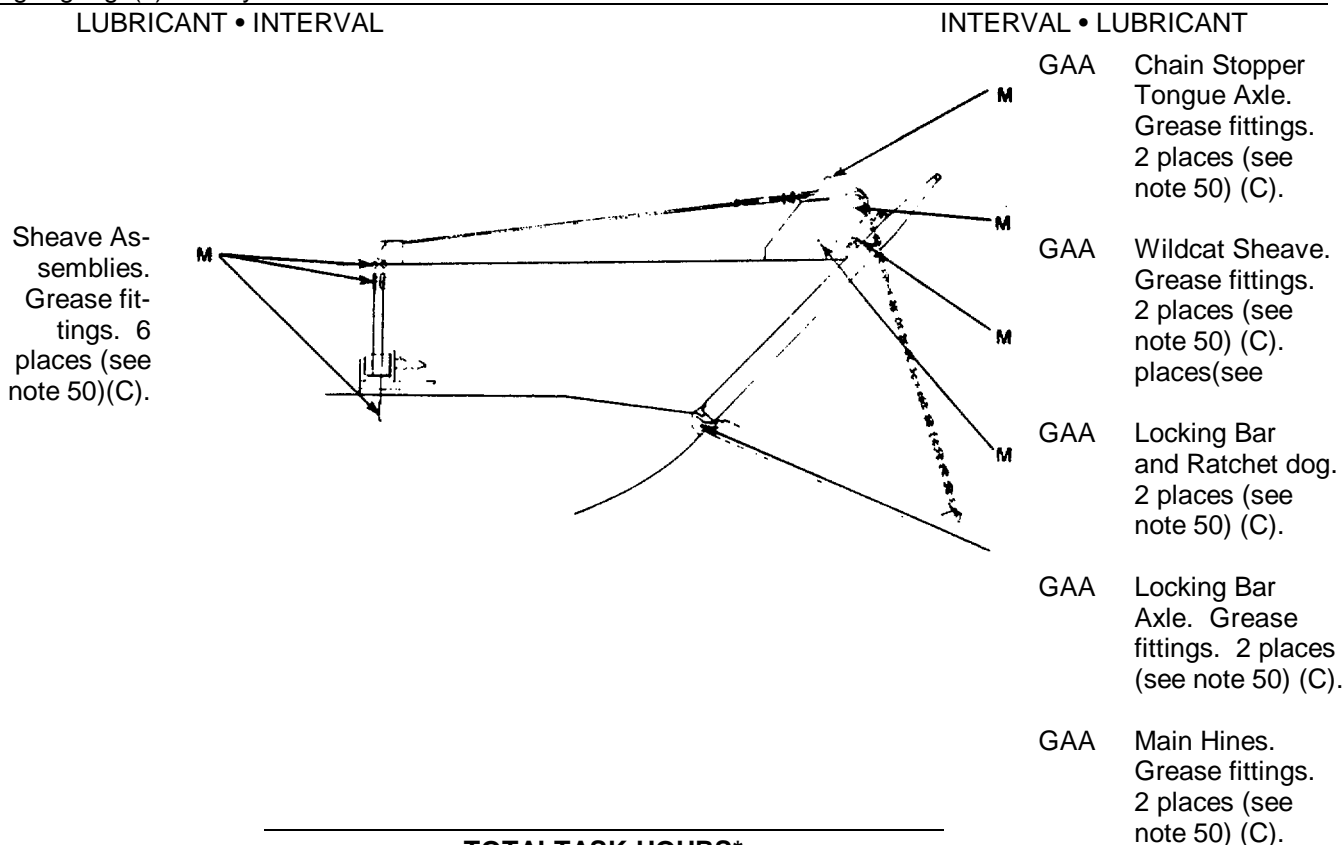
Do Not Contaminate Friction Discs With Grease.

- 47. Gear reducer. Remove plug at 6 o'clock position on reducer case and drain reducer completely. Refill with lubricant.

WARNING

When applying grease to wire rope by hand, broken strands of wire can cause injury to personnel. Use approved gloves.

- 48. Apply grease evenly with small brush or by hand.
- 49. Open drain valve(s) and drain reservoir(s). Close drain valve(s). Remove fill cap(s) and fill reservoir(s) to the HIGH mark on Sight-gauge(s) with hydraulic fluid.



LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

Sheave Assemblies. Grease fittings. 6 places (see note 50)(C).

- GAA Chain Stopper Tongue Axle. Grease fittings. 2 places (see note 50) (C).
- GAA Wildcat Sheave. Grease fittings. 2 places (see note 50) (C).
- GAA Locking Bar and Ratchet dog. 2 places (see note 50) (C).
- GAA Locking Bar Axle. Grease fittings. 2 places (see note 50) (C).
- GAA Main Hines. Grease fittings. 2 places (see note 50) (C).

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
M	0.2
Q	0.5

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GAA Grease (MIL-G-10924)	As Required	Grease	M-Monthly

- 50. Grease daily when in use. Use hand held lubrication gun. Apply until fresh grease exudes from bearing.

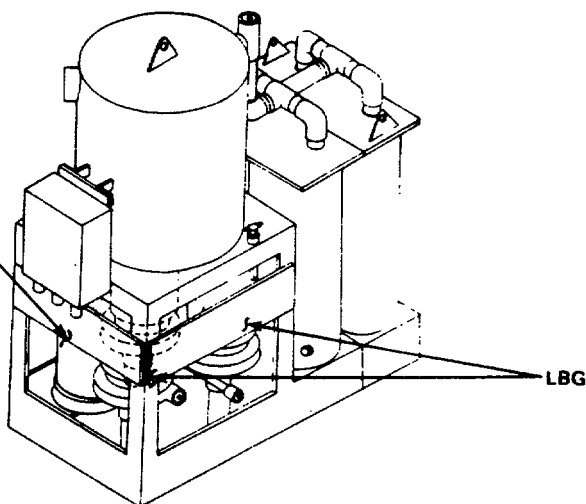
LUBRICANT • INTERVAL

INTERVAL * LUBRICANT

Motor Bearing Grease fittings. see notes 51,52) (C).

GAA

B



GAA Motor Bearings. Grease Fittings. (See Notes 51, 52) (C).

MARINE SANITATION SYSTEM

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
B	0.1

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GAA Grease, automotive (MIL-G-10924) and artillery	As Required	Grease	B-Biennially (24 Months)

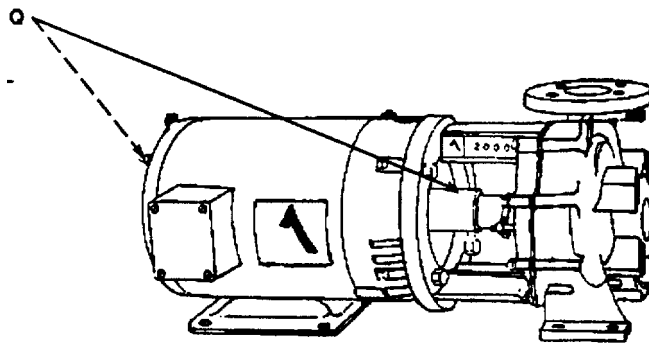
Notes:

51. The motor has a slotted head grease screw. Remove screw and apply 2 to 3 inches of grease string to each hole on the motor.

52. Keep grease clean. Lubricate or drain grease with motors at standstill.

LUBRICANT • INTERVAL

Motor Base Grease GAA
 ings. Grease
 Fittings. (See
 Note 53)(C).



CENTRIFUGAL PUMP UNIT

FIRE PUMPS SUBSYSTEM

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
Q	0.5

-KEY-

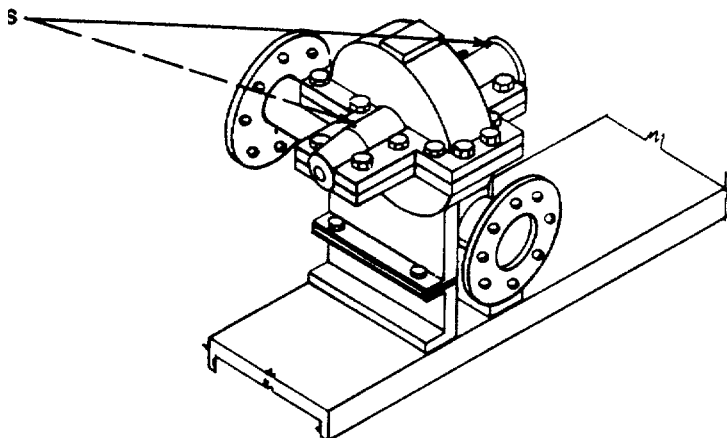
LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GAA Grease, automotive (MIL-G-10924) and artillery	As Required	Grease	Q-Quarterly (3 months)

Notes:

53. Motor bearings. Remove the drain plug from each end of the motor bearing housing. Attach a hand operated grease gun to one end of the motor's grease fitting. Apply grease until a small amount appears at the drain hole. Do not over grease. Repeat process at the other end of the motor. Wipe away excess grease from bearing housing drain holes and replace drain plugs. Wipe away excess grease on fittings.

LUBRICANT • INTERVAL

Pump Bearings. GAA
Grease fittings.
(C). (See Note
54).



TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
S	0.3

-KEY-

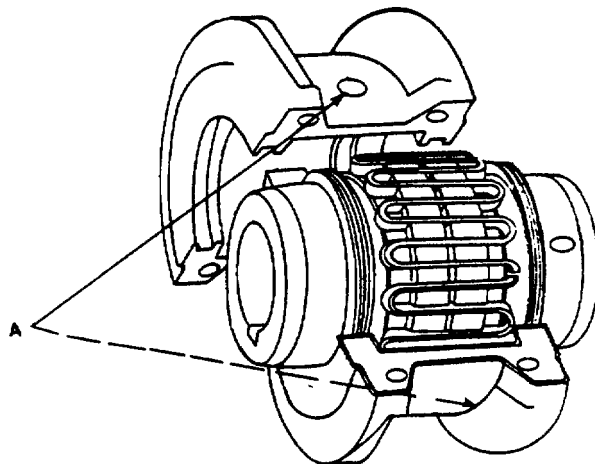
LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GAA Grease, automotive (MIL-G-10924) and artillery	As Required	Grease	S-Semiannually (6 months)

Notes:

54. Grease daily when in use. Use hand held lubrication gun. Apply until fresh grease exudes from bearing. Wipe off excess.

LUBRICANT INTERVAL

Grease fitting. GAA
(C). (See Note 55).



TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
A	0.3

-KEY-

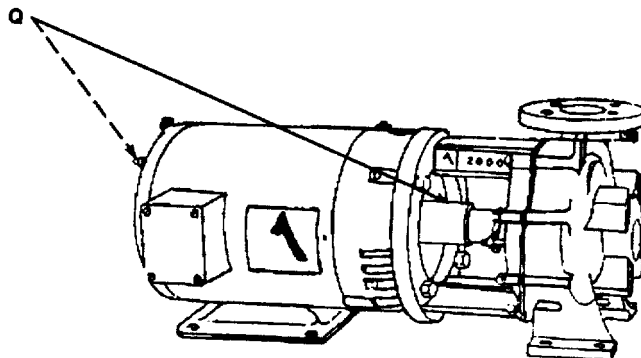
LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GAA Grease, automotive (MIL-G-10924) and artillery	As Required	Grease	A-Annually (12 Months)

Notes:

55. Grease daily when in use. Use hand held lubrication gun. Apply until fresh grease exudes from bearing. Wipe off excess.

LUBRICANT • INTERVAL

Motor Bearings. Grease Fittings. (See Note 56)(C).
 GAA



TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
Q	0.3

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GAA Grease, automotive (MIL-G-10924) and artillery	As Required	Grease	Q-Quarterly (3 months)

Notes:

56. Motor bearings. Remove the drain plug from each end of the motor bearing housing. Attach a hand operated grease gun to one end of the motor's grease fitting. Apply grease until a small amount appears at the drain hole. Do not over grease. Repeat process at the other end of the motor. Wipe away excess grease from bearing housing drain holes and replace drain plugs. Wipe away excess grease on fittings.

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

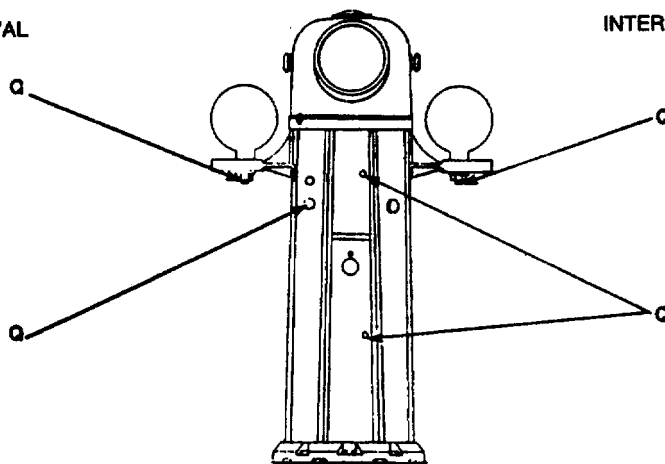
Quadrantal Spheres. (See Note 57)(C).
S-736

ERVAL

INTERVAL S-736 Quadrant Spheres. (See Note 57)(C).

Rheostat Shaft. (See Note 57)(C).
S-736

S-736 Door Latches. (See Note 57)(C).



MAGNETIC COMPASS

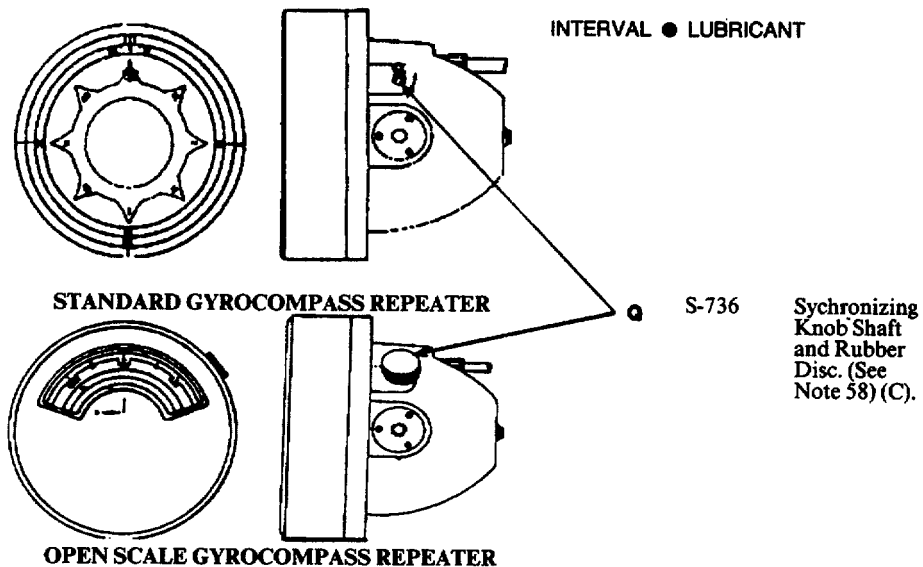
TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
Q	0.3

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
S-736 Silicone Compound (MIL-S-8660)	As Required	Silicone Compound	Q-Quarterly (3 months)

Notes:

57. Apply lubricant sparingly with small hand brush.



TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
Q	0.1

-KEY-

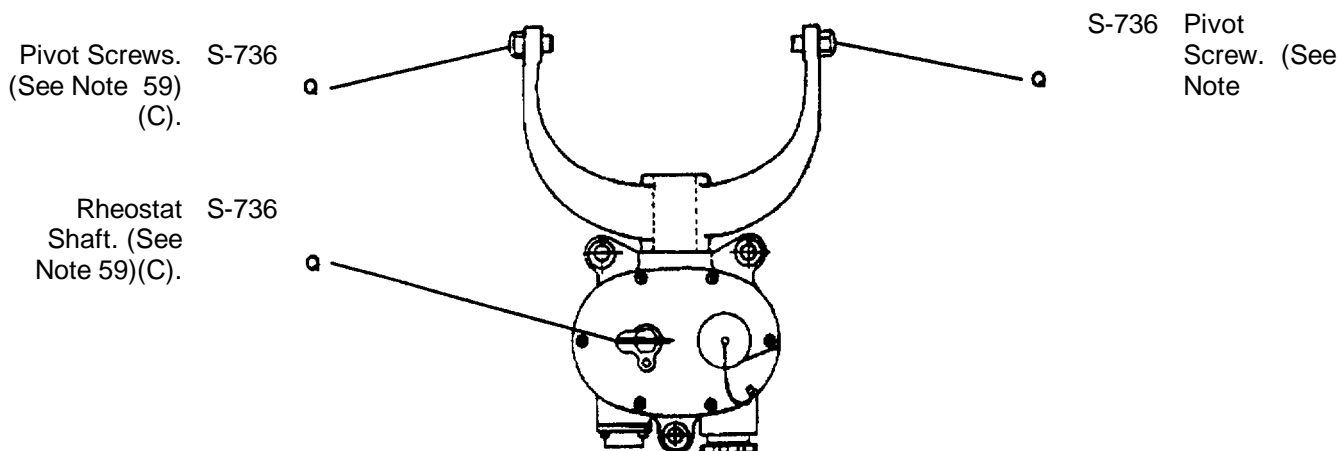
LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
S-736 (MIL-S-8660) Silicone Compound	As Required	Silicone Compound		Q-Quarterly (3 months)

Notes:

58. Apply lubricant sparingly with a small hand brush.

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT



GYROCOMPASS REPEATER BULKHEAD MOUNT

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
Q	0.2

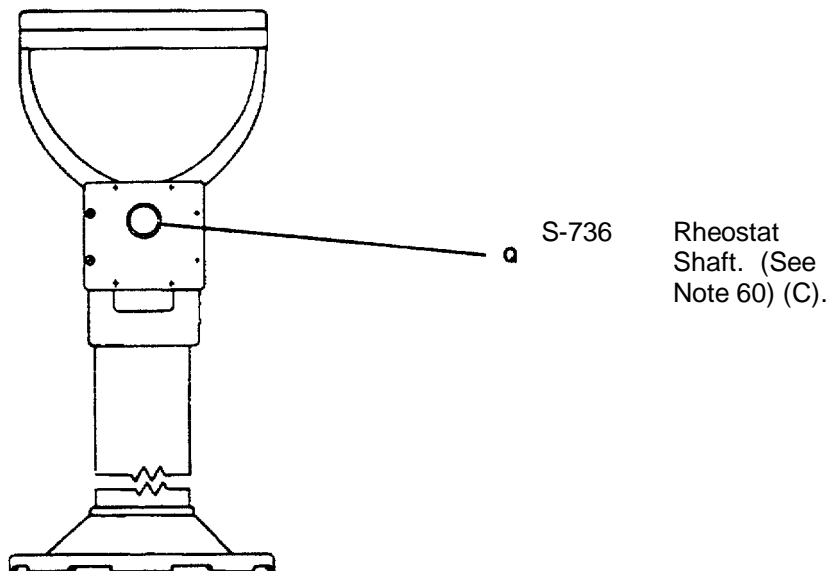
-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
S-736 (MIL-S-8660) SILICONE COMPOUND	As Required	Silicone Compound		Q-Quarterly (3 months)

Notes:

59. Apply lubricant sparingly with small hand brush.

INTERVAL • LUBRICANT



COLUMN BEARING STAND

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
A	0.1

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
S-736 SILICONE COMPOUND (MIL-S-8660)	As Required	Silicone Compound	Q-Quarterly (3 months)

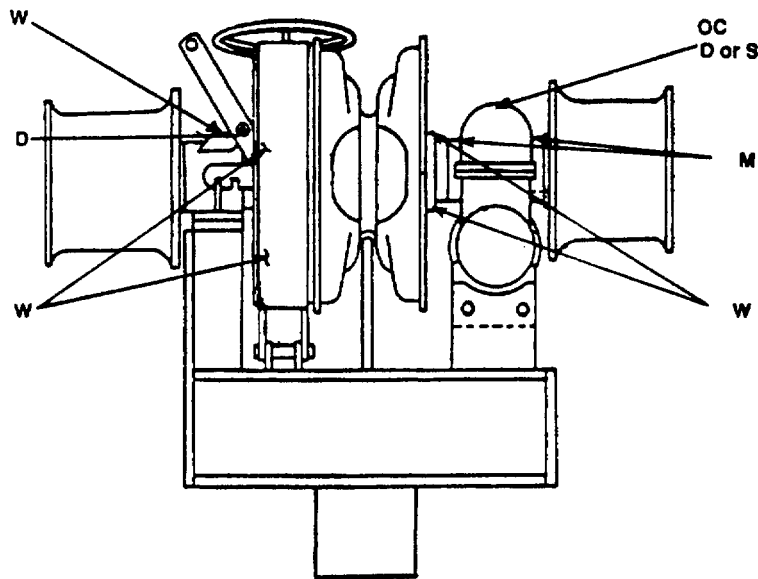
Notes:

60. Apply lubricant sparingly with small hand brush.

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

- Pillowblock, Grease fitting. (See Note 61). (C). GAA
- Clutch Groove. Grease fitting. (See Note 61). (C). GAA
- Sliding Jaw Clutch. Grease fittings (See Note 61) (C). GAA



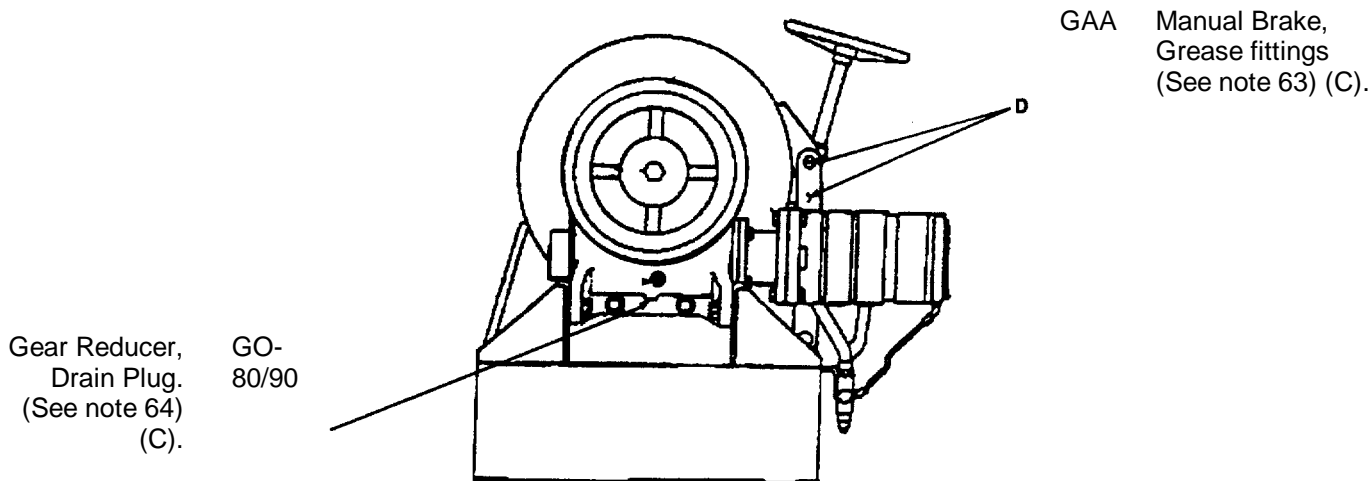
- GO- Gear Reducer, 80/90 Filler Plug. (See note 62) (C).
- GAA Gear Reducer Bushings. (See note 6 1) (C).
- GAA Wildcat, grease fittings. (See note 61) (C).

Notes:

- 61. Grease daily when in use. Use hand held lubrication gun. Apply until fresh grease exudes from bearing. Wipe off excess.
- 62. Remove fill plug. Check oil level. Fill reservoir as necessary to bring oil level to bottom of fill plug hole. Install fill plug.

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT



**BOW ANCHOR WINDLASS
PORT SIDE VIEW**

TOTAL TASK-HOURS*		TOTAL TASK-HOURS*	
INTERVAL D	TASK HOURS 0.3	INTERVAL S	TASK HOURS 0.6

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GO-80/90 Lubricating oil, (MIL-L-2105) gear, multipurpose	As Required	Lubricating oil, gear, multipurpose	D-Daily S-Semiannually (6 months)
GAA Grease, automotive (MIL-G-10924) artillery	As Required	Grease	

Notes:

63. Grease daily when in use. Use hand held lubrication gun. Apply until fresh grease exudes from bearing. Wipe off excess.

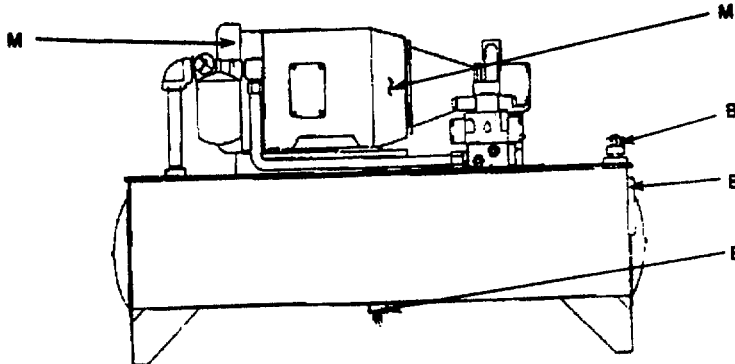
64. Gear reducer. Remove plug at 6 o'clock position on reducer case and drain reducer completely. Refill with lubricant. Install plug

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

Motor Bearing,
Grease, fitting,
(See Note 65)
(C)

GAA



GAA

Motor Bearing,
Grease fitting
(See Note 65)
(C).

B

FRH

Fill cap. (See
note 66) (C).

B

FRH

Sight glass.
(See note 66) (C).

FRH

Drain and
Fill reservoir.
(See note 66) (C).

**HYDRAULIC PUMP ELECTRIC
MOTOR AND RESERVOIR FOR BOW ANCHOR WINDLASS**

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
M	0.4
B	1.0

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
GAA (MIL-G-10924) GREASE, LITHIUM BASE	As Required	Grease		B-Biennially (24 months)
FRH (MIL-H-46170B) (H-544) Fluid, hydraulic	30 gallons	Fluid, hydraulic		

Notes:

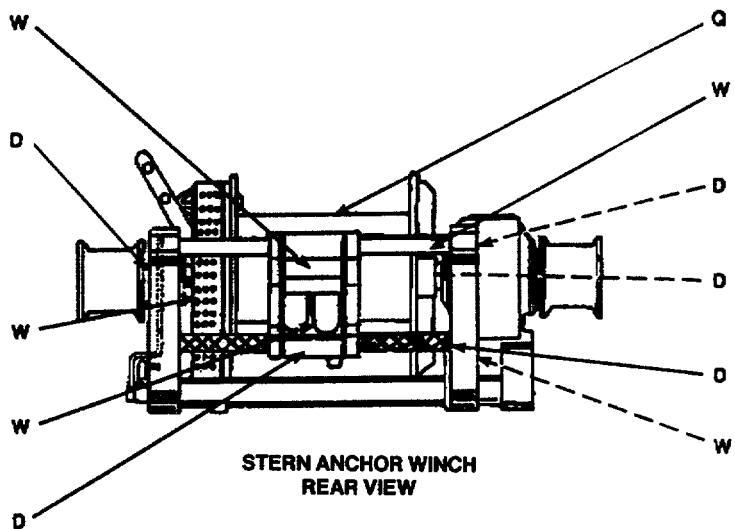
65. Grease daily when in use. Use hand held lubrication gun. Apply until fresh grease exudes from bearing. Wipe off excess.

66. Open drain valve(s) and drain reservoir(s). Close drain valve(s). Remove filler cap(s) and fill reservoir(s) to the HIGH mark on Sight-gauge(s) with hydraulic fluid. Install filler cap(s).

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

- Horizontal Roller Bushing. Grease fitting. (See Note 67). (C). GAA
- Clutch Groove, Grease fitting. (See note 67). (C). GAA
- Clutch Sliding Jaw Grease fitting. (See note 67). (C). GAA
- Vertical Roller Bushings, Grease fitting. (See not 67).(C). GAA



- GWR Anchor Cable. (See note 68). (C).
- GAA Levelwind Guideshaft. (See note 69). (C).
- GAA Pillowblock. Grease fitting. (See note 67). (C).
- GAA Spool Bushing. Grease fitting. (See note 67). (C).
- GAA Diamond Shaft. (See note 69). (C).
- GAA Levelwind Chain and Sprocket. (See note 69). (C).

STERN ANCHOR WINCH SYSTEM

TOTAL TASK-HOURS*		TOTAL TASK-HOURS*	
INTERVAL	TASK HOURS	INTERVAL	TASK HOURS
D	0.7	Q	7.0
W	1.0		

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GAA GREASE, AUTOMOTIVE (MIL-G-10924) and artillery	As Required	Grease	D-Daily W-Weekly
GWR Grease, wier, ripe (MIL-G-18485) exposed gear	As Required	Grease, wire rope, exposed gear	Q-Quarterly (3 months)

Notes:

67. Grease daily when in use. Use hand held lubrication gun. Apply until fresh grease exudes from bearing. Wipe off excess.

WARNING

When applying grease to wire rope by hand, wear appropriate gloves, broken strands of wire can cause injury to personnel.

68. Apply grease evenly with small brush or by hand.

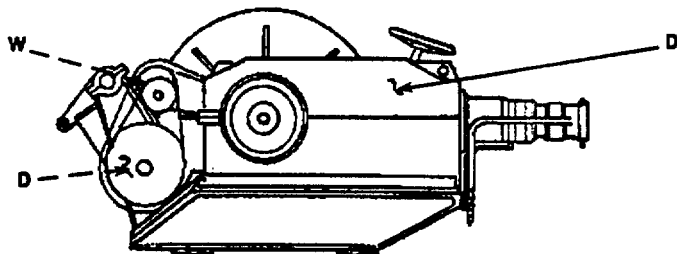
69. Apply lubricant sparingly with small hand brush.

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

Levelwind Sprocket and Chain Gear Surface. (See note 71)(XC). GWR

Levelwind Bearing, Grease fitting. (See note 70). (C). GAA



Brake Nut, Grease fitting. (See note 70). (C). GAA

TOTAL TASK-HOURS*		TOTAL TASK-HOURS*	
INTERVAL	TASK HOURS	INTERVAL	TASK HOURS
D	0.4	W	0.5

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GAA GREASE, AUTOMOTIVE (MIL-G-10924) and artillery	As Required	Grease	D-Daily W-Weekly
GWR Grease, wier, ripe exposed gear (MIL-G-18485)	As Required	Grease, wire rope, exposed gear	

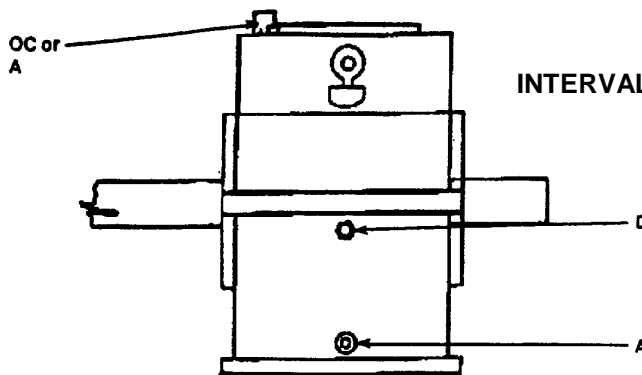
Notes:

70. Grease daily when in use. Use hand held lubrication gun. Apply until fresh grease exudes from bearing. Wipe off excess.

71. Apply grease evenly with small brush or by hand.

LUBRICANT • INTERVAL

Oil Filler. GO-80/90
(See note 72). (C).



INTERVAL • LUBRICANT

GO-80/90 Sight Gauge.
(See note 72). (C).

GO-80/90 Oil Drain Plug
(See note 72). (C).

TOTAL TASK-HOURS*		TOTAL TASK-HOURS*	
INTERVAL	TASK HOURS	INTERVAL	TASK HOURS
D	0.1	OC	0.2
A	1.5		

-KEY-

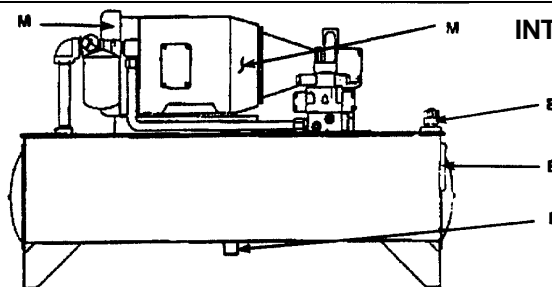
LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES			INTERVALS
		Above +32°F (Above 0°C)	+40°F to -10°F (+5°C to -50°C)	0°F to -65°F (-18°C to -50°C)	
GO-80/90 LUBRICATING OIL, (MIL-L-2105) gear, multipurpose	10 gallons	80/90 (0-226)	80/90 (0-186)	75 (0-186)	D-Daily W-Weekly Q-Quarterly (3 months)

Notes:

72. Check oil level daily and replenish as needed to maintain level at middle of sight gauge.

LUBRICANT • INTERVAL

Motor Bearing, Grease fitting
(See note 73)(C).



INTERVAL • LUBRICANT

GAA Motor Bearing,
Grease fitting,
(See note 73)
(C).

FRH Fill cap.
(See note 74)
(C).

FRH Sightglass.
(See note 74)
(C).

FRH Drain and
fill reservoir
(See note 74)
(C).

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
M	0.4
B	1.0

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
GAA GREASE, AUTOMOTIVE (MIL-G-10924) and artillery	As Required	Grease		B-Biennially (24 months)
FRH Fluid,hydraulic (MIL-H-46170B) (H-544)	75 gallons	Fluid, Hydraulic		

Notes:

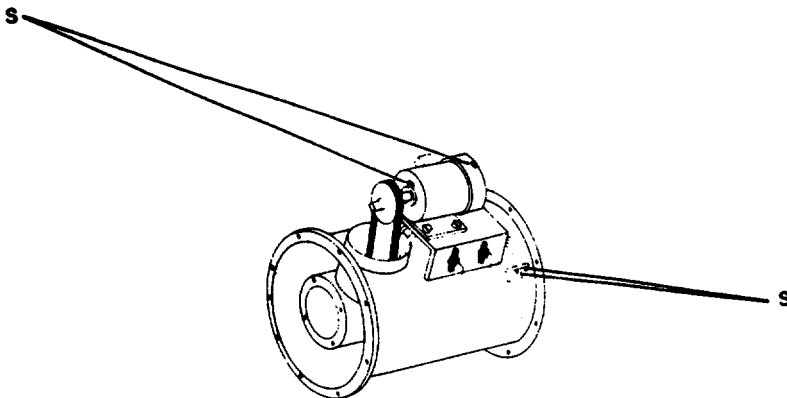
73. Grease daily when in use. Use hand held lubrication gun. Apply until fresh grease exudes from bearing. Wipe off excess.

74. Open drain valve(s) and drain reservoir(s). Close drain valve(s). Remove filter cap(s) and fill reservoir(s) to the HIGH mark on Sight-gauge(s) with hydraulic fluid. Install filler cap(s).C

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

Motor Bearing Grease Fittings
(See Note 75) (C).



GAA Fan Bearing Grease Fittings
(See Note 75),(C).

**BELT DRIVE AXIAL SUPPLY FANS
SF - 4 BOW THRUSTER COMPARTMENT
ENVIRONMENTAL CONTROL SUBSYSTEM**

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
S	0.2

-KEY-

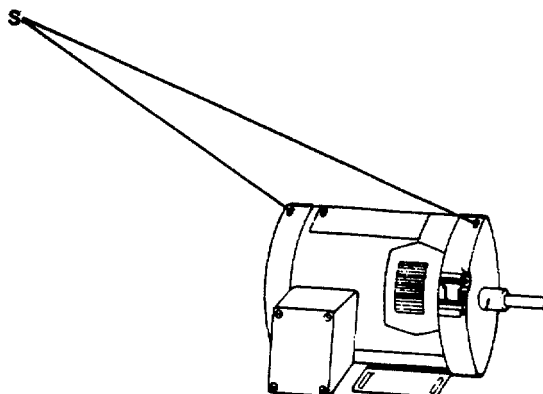
LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
GAA GREASE, AUTOMOTIVE (MIL-G-10924) and artillery	As Required	Grease		S-Semiannual (6 months)

Notes:

75. Grease motor bearings using hand lubricating gun. Apply one stroke (one quarter ounce) to grease fitting.

LUBRICANT • INTERVAL

Motor Bearing GAA
 Grease Fittings
 (See Note 76) (C).



**ELECTRIC MOTORS ON CENTRIFUGAL FANS
 EF-4 TOILET AND SHOWER
 EF4 GALLEY HOOD EXHAUST
 EF-7 PAINT LOCKER
 ENVIRONMENTAL CONTROL SUBSYSTEM**

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
S	0.3

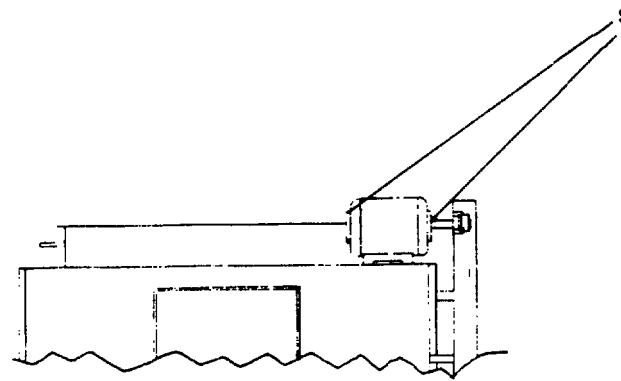
-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GAA (MIL-G-10924) GREASE, LITHIUM BASE	As Required	Grease	S-Semiannual (6 months)

Notes:

76. Grease motor bearings using hand held lubricating gun. Apply one stroke (one quarter ounce) to grease fitting.

INTERVAL • LUBRICANT



GAA Motor Bearings
Grease Fittings
(See Note 77) (C).

AIR CONDMONER BLOWER MOTOR
(A/C-2; ACCOMMODATIONS)

ENVIRONMENTAL CONTROL SUBSYSTEM

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
S	0.2

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
GAA (MIL-G-10924)	GREASE, LITHIUM BASE As Required	Grease		S-Semiannual (6 months)

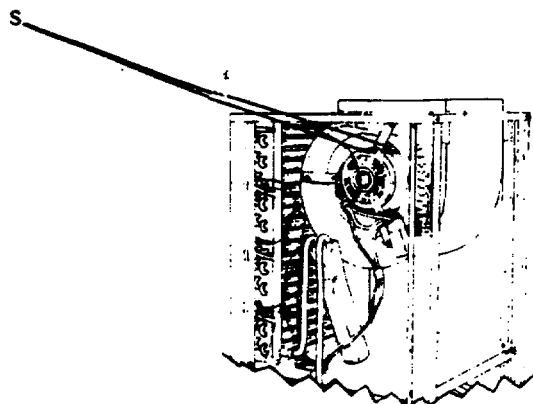
Notes:

77. Grease motor bearings using hand lubricating gun. Apply one stroke (one quarter ounce) to grease fitting.

LUBRICANT • INTERVAL

Motor Bearing
Oil Passages.
(See Note 78,
79) (C).

OEIHDO



AIR CONDITMONER, SELFCONTAINED
(A/C 1 and 3)

ENVIRONMENTAL CONTROL SUBSYSTEM

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
S	0.2

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
OE/HDO (MIL-L-2104) OIL, LUBRICATING INTERNAL COMBUSTION ENGINEER, TACTICAL SERVICE	6 to 8 drops	15W/40	S-Semiannually (6 months)

Notes:

78. Remove upper left cabinet panel for access to blower motor. Apply 6 to 8 drops of 20W lubricating oil to each molor bearing oil passage.

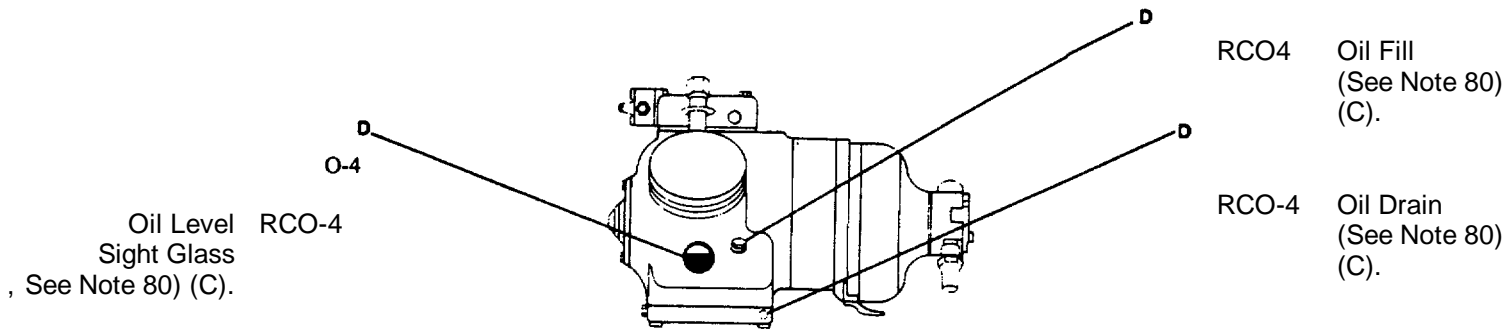
WARNING

Before opening the oil fill or oil drain plugs, close suction and discharge stop valves. Purge the refrigerant charge to remove oil pressure. Failure to remove oil pressure can cause the oil fill or oil drain plugs to come loose at high velocity injuring personnel.

79. Check sight glass after compressor has run for 10 minutes. Oil should be at the half-way point in the sight glass. Add compressor oil as required to maintain proper level. Loosen drain plug only enough for oil to seep from around the plug. Do not totally remove plug or too much oil may be lost.

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT



**AIR CONDITIONER COMPRESSOR
(A/C-2; ACCOMMODATIONS)
ENVIRONMENTAL CONTROL SUBSYSTEM**

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
D	0.3

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
RCO-4 (VV-L-825) OIL, COMPRESSOR REFRIGERATION, TYPE IV	As Required	Oil, Compressor, Refrigeration. Type IV		D-Daily

Notes:

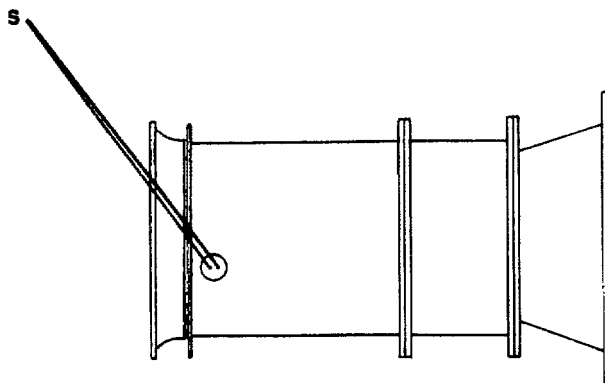
80. Check sight glass after compressor has run for 10 minutes. Oil should be at the half-way point in the sight glass. Add compressor oil as required to maintain proper level. Remove excess oil if above half-way point in sight glass. Loosen drain plug only enough for oil to seep from around the plug. Do not totally remove plug or too much oil may be lost.

WARNING

Insure that the suction and discharge service valves are front seated prior to loosening drain plug. Bleed compressor crankcase prior to placing system back on line.

Motor Bearing Grease Fittings (See Note 8 1) (C).

GAA



DIRECT DRIVE AXIAL SUPPLY AND EXHAUST FANS (SF#1,2, and 3; EF #1,2, and 3)

ENVIRONMENTAL CONTROL SUBSYSTEM

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
S	0.3

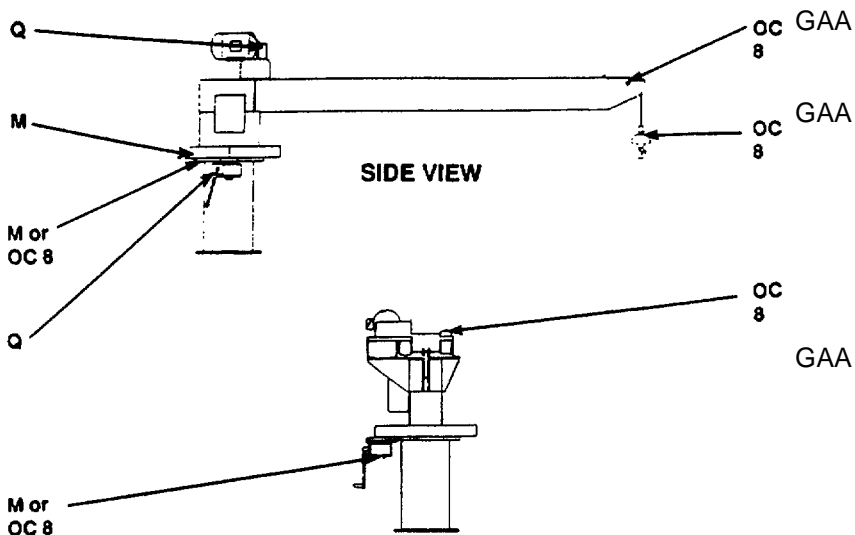
-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GAA GREASE, AUTOMOTIVE (MIL-G-10924) and artillery	As Required	Grease	S-Semiannual (6 months)

Notes:

81. Grease motor bearings using hand lubricating gun. Apply one stroke (one quarter ounce) to grease fitting.

- Gear Box Oil Level plug (See note 84) (C).
- Gear and GWR pinion Teeth (See note 82) (C).
- Turntable Bearing Grease Fitting (See note 83) (C).
- Swing Drive Oil Level Plug (See note 84) (C).
- Swing Drive Grease Fitting (See note 83) (C).



- Sheave Grease Fitting (See note 83) (C).
- Hook Swivel Grease Fitting (See note 83) (C).
- Drum Bearing Grease Fitting (See note 83) (C).

**BOOM END VIEW
WORKBOAT DAVIT/WINCH**

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
M	0.4
B	1.0

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
GAA (MIL-G-10924) GREASE, LITHIUM BASE	As Required	Grease		M - Monthly
GO 80/90 (MIL-I-2105) Lubricating oil, gear, multipurpose	As Required	Lubricating Oil, Gear, Multipurpose		Q-Quarterly (3 months)
GWR (MIL-L-23549) GREASE, WIRE ROPE EXPOSED GEAR	As Required	Grease, Wire Rope - Exposed Gear		OC - On Condition

Notes:

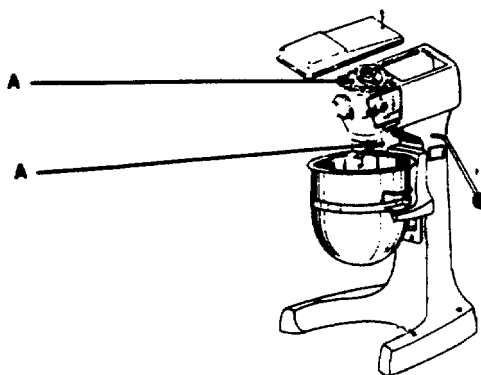
82. Apply lubricant sparingly with small hand brush.

83. Grease monthly or each 8 hours of operation, which ever occurs first. Clean grease fitting. Apply 3 or 4 strokes of grease from a hand lubricating gun. Wipe off excess.

84. Remove oil level plug. Add oil as required to fill gear box to plug level install plug.

LUBRICANT • INTERVAL

Fill plug (See note 85) (C). Food Grade
 Drain plug (See note 85) (C). Food Grade



FOOD MIXER

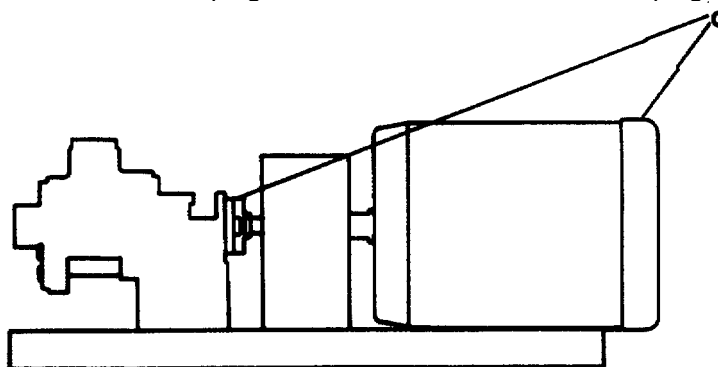
TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
A	0.5

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
(DOD-L-24651) LUBRICATING OIL, TYPE II	3 pints	Lubricating Oil, Food Grade	A-Annually (12 Months)

Notes:

85. Mixer cover must be removed for access to transmission oil fill plug. Place container under drain and remove drain plug. Drain oil from transmission. Install drain plug. Fill with clean oil. Install oil fill plug and mixer cover.



INTERVAL • LUBRICANT

GAA Grease Fittings. (See Note 86) (C).

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
Q	0.3

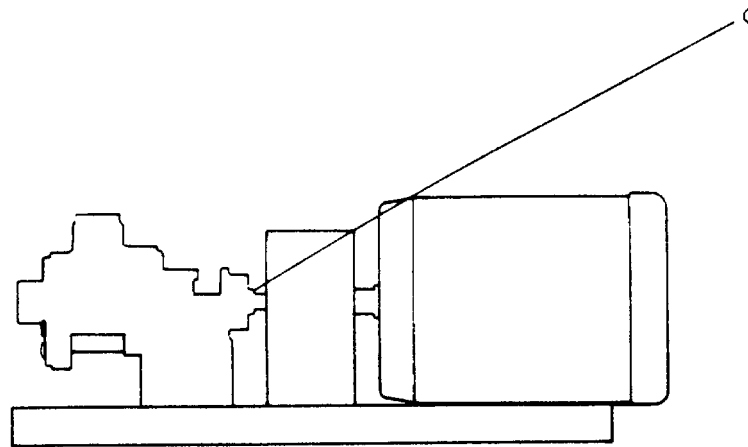
-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GAA GREASE, AUTOMOTIVE (MIL-G-10924) AND ARTILLERY	As Required	Grease	Q-Quarterly (3 months)

Notes:

86. Clean grease fitting. Apply 2 or 3 strokes of grease from a hand held lubrication gun. Wipe off excess.

INTERVAL • LUBRICANT



GAA Grease Fittings.
(See Note 87) (C).

FUEL OIL TRANSFER PUMPS (2)

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
Q	0.3

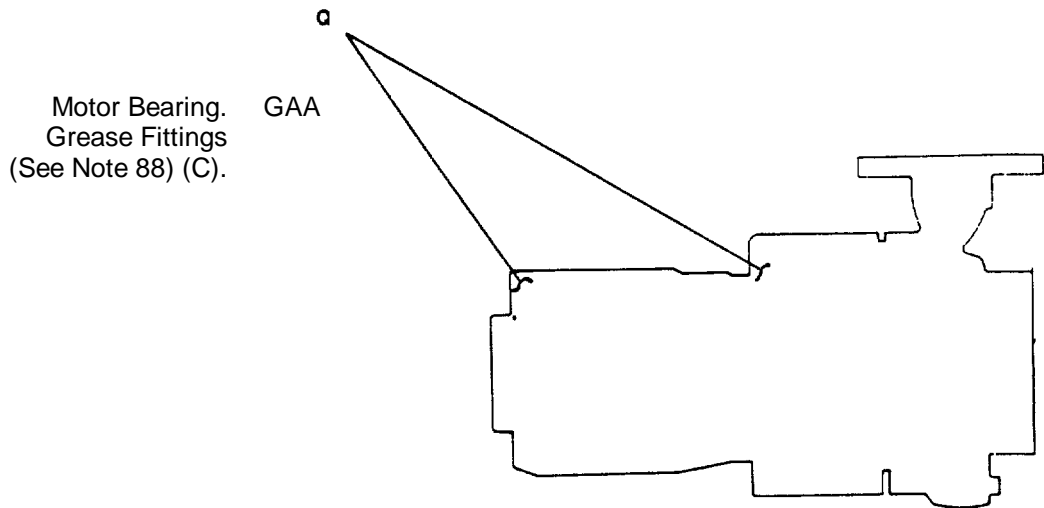
-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES	INTERVALS
		ALL TEMPERATURES	
GAA GREASE, AUTOMOTIVE (MIL-G-10924) AND ARTILLERY	As Required	Grease	Q-Quarterly (3 months)

Notes:

87. Clean grease fitting. Apply 2 or 3 strokes of grease from a hand held lubrication gun. Wipe off excess.

LUBRICANT • INTERVAL



AUXILIARY SEAWATER COOLING PUMP

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
Q	0.3

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
GAA GREASE, AUTOMOTIVE (MIL-G-10924) AND ARTILLERY	As Required	Grease		Q-QUARTERLY (3 MONTHS)

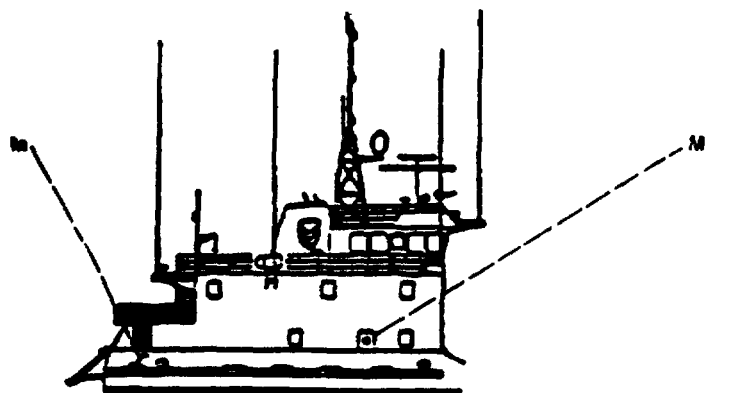
Notes:

88. Clean grease fittings. Apply 2 or 3 strokes of grease from a hand held lubrication gun. Wipe off excess.

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

Watertight hatches and Scuttles. GAA
Lubricate hinges, dog arms and pivot points. 5 places (See Note 89)(C).



GAA Watertight Doors. Lubricated hinges, links and dogs. 11 places (C).

**PARTIAL DECK VIEW
WATERTIGHT DOORS**

TOTAL TASK-HOURS*

INTERVAL	TASK-HOURS*
M	2.0

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
GAA GREASE, AUTOMOTIVE (MIL-G-10924) and artillery	As Required	Grease		M - Monthly

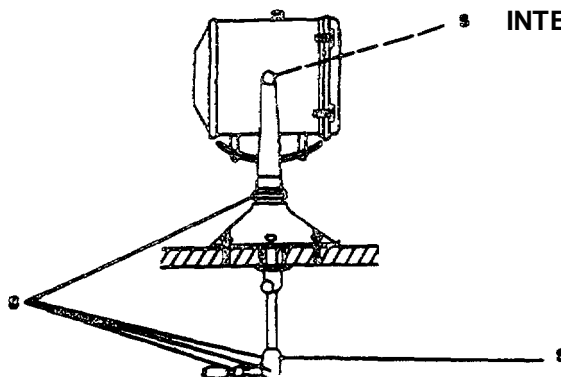
Notes:

89. Doors. Clean all paint from watertight door seals as required. Lubricate watertight door seals monthly with OE/HDO.

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT

Bearings(C). GAA



GAA Trunnion Bearings Grease fittings (C).

GAA Miter Gear(C).

SEARCHLIGHTS

TOTAL TASK-HOURS*

INTERVAL	TASK-HOURS*
S	0.5

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
GAA GREASE, AUTOMOTIVE (MIL-G-10924) and artillery	As Required	Grease		M-Monthly

LUBRICANT • INTERVAL

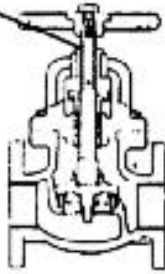
INTERVAL • LUBRICANT

Stern (C). GAA

S

GAA Stern (C).

S



GLOBE VALVES



GATE VALVES

TOTAL TASK-HOURS*	
INTERVAL	TASK-HOURS*
S	0.5

-KEY-

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES		INTERVALS
		ALL TEMPERATURES		
GAA GREASE, AUTOMOTIVE (MIL-G-10924) AND ARTILLERY	As Required	Grease		S-Semiannual (6 months)

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:


GORDON R. SULLIVAN
 General, United States Army
 Chief of Staff

Official:

Milton H. Hamilton
 MILTON H. HAMILTON
 Administrative Assistant to the
 Secretary of the Army
 00901

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