(Supersedes LO 55-1905-219-12, 10 July 1978)

LANDING CRAFT, UTILITY BOSTON MARINE CORPORATION HULL NUMBERS 1667-1670 NSN 1905-00-168-5764

References: TM 55-1905-219-14-1 Thru-11

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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 Forms, should be mailed directly to Commander, US Army Troop Support Command, ATTN: AMSTR-MMTS, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished directly to you.

GENERAL NOTES

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

Intervals and related task-hour times are based on normal hours of operation. The task-hour time specified (*) is the time you need to do all the services prescribed for a particular interval. Change the interval if your lubricants are contaminated or if you are operating the equipment under adverse operating conditions, including longer-than-usual operating hours. You may extend the interval during periods of low activity, but you must take adequate preservation precautions.

Clean fittings before lubricating. Relubricate all areas exposed to water after amphibious operation.

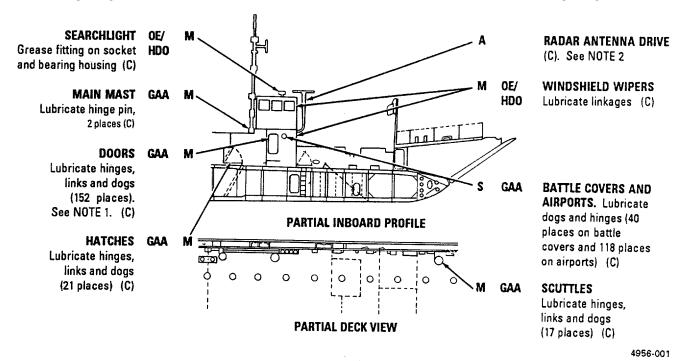
Lubricate points indicated by dotted arrow shaft on both sides of equipment.

Clean parts with SOLVENT, dry cleaning, or with OIL, fuel, diesel. Dry before lubricating.

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LUBRICANT • INTERVAL

INTERVAL • LUBRICANT



*TOTAL TASK HOURS		*TOTAL TASK HOURS		
INTERVAL	INTERVAL TASK-HOURS		TASK-HOURS	
М	2.5	S A	0.75 10	

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		EXPE	CTED TEMPERAT	URES	
LUBRICANTS	CAPACITY	Above +32°F	+ 40°F to-10°F	0°F to -65°F	INTERVALS
		Above 0°C	+ 5°C to-23°C	-18°C to-54°C	
GAA Grease, automotive (MIL-G-10924F) and artillery OE/HDO Lubricating oil, (MIL-L-2104) engine OEA Lubricating oil, ice (MIL-L-10295) arctic	As Required		All Temperatures	OEA	M - Monthly S - Semiannually A - Annually

NOTES

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

WARNING

High voltage is used in the operation of this equipment. Death on contact may result if personnel fail to observe safety precautions. Deenergize the equipment before attempting to perform maintenance.

2. RADAR ANTENNA DRIVE. Add 4-6 drops of OE/HDO oil to oil can on the motor gear assembly yearly. Add teaspoonful of GAA to the rotary joint seal yearly.

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4956-002

LUBRICANT • INTERVAL INTERVAL • LUBRICANT THROTTLE CONTROL OE/ Lubricate Throttle HDO Control Linkage (C) See NOTE 3 -500 HRS AIR CLEANER (C) See NOTE 5 monog BREATHER CAP OE/ Clean breather with HDO OE/HDO (C) OIL FILLER CAP (C) GENERATOR BEARING OE/ Check sight gage HDO and add oil 300 HRS OIL FILTER (C) as required (C) See NOTE 6 **OIL LEVEL GAGE** (C) See NOTE (1) `300 HRS CRANKCASE DRAIN (C) See NOTE 7 ALTERNATOR OE/ Add 5 to 6 drops of HDO SHIPS SERVICE GENERATOR oil at hinge cap **ENGINE, DETROIT DIESEL**

oiler (C)

*TOTAL TA	SK HOURS	*TOTAL TASK HOURS		
INTERVAL	INTERVAL TASK-HOURS		TASK-HOURS	
D M	0.1 1.2	Q S	0.1 0.1	

MODEL 1033-7005

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		EXPECTED TEMPERATURES			
LUBRICANTS	CAPACITY	Above + 32°F Above 0°C	+ 40°F to-10°F + 5°C to-23°C	0°F to -65°F -18°C to-54°C	INTERVALS
OE/HDO Lubricating oil, (MIL-L-2104) engine OEA Lubricating oil, ice, (MIL-L-10295) arctic	15 qts (14.19-liters)	OE/HDO 30	OE/HDO 10	OEA	D - Daily M - Monthly Q- Quarterly
GAA Grease, automotive (MIL-G-10924F) and artillery	As Required		All Temperatures		S- Semiannually

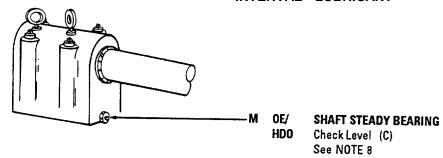
NOTES

- 3. OIL CAN POINTS. Lubricate control linkages, clevises, pins and all exposed adjusting threads with OE/ HDO.
- 4. OIL LEVEL GAGE. Check oil level daily before starting engine. Add oil as required to bring it to full mark.
- 5. AIR CLEANER. Disassemble and remove dirty oil and sludge from reservoir. Wash all parts in clean fuel oil. Refill reservoir with OE/HDO.
- 6. OIL FILTER. Drain oil from crankcase (See note 7). Remove filter element, clean housing and install new element. Fill crankcase with 15 qts (14.19 liters) of oil (OE/HDO). Operate engine 5 minutes, check for leaks, check crankcase oil level and bring to full mark.
- 7. CRANKCASE DRAIN. Do not drain oil into bilges. Use oil separation system to collect drained oil.

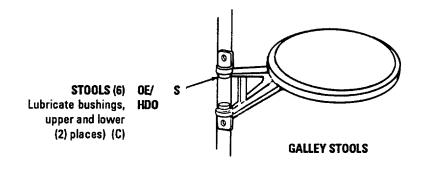
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LUBRICANT • INTERVAL

INTERVAL • LUBRICANT



SHAFT PILLOW BLOCK IN AFT ENGINE ROOM



*TOTAL TA	SK HOURS	*TOTAL TASK HOURS		
INTERVAL	INTERVAL TASK-HOURS		TASK-HOURS	
M	0.1	S	0.1	

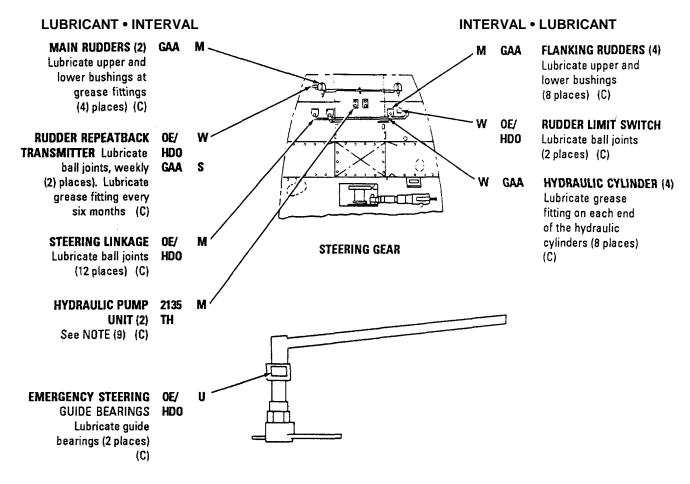
Card 6 of 30

E			EXPEC	CTED TEMPERATU	IRES	
LUBR	RICANTS	CAPACITY	Above +32°F Above 0°C	+ 40°F to-10°F + 5°C to -23°C	0°F to-65°F -18°C to - 54°C	INTERVALS
OE/HDO	Lubricating oil,	As Required		All Temperatures		
(MIL-L-2104)	engine					M - Monthly
OEA Lubrica (MIL-L-10295)	ating oil, ice, arctic				OEA	S - Semiannually

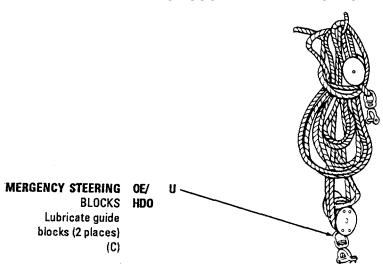
NOTES

8. SHAFT STEADY BEARING. Remove plug from fitting and check oil level with finger. Oil level is correct if finger touches oil. Add oil as required.

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DECK SOCKET AND EMERGENCY TILLER GUIDE BEARINGS



EMERGENCY STEERING BLOCK AND TACKLE STOWED

*TOTAL TA	SK HOURS	*TOTAL TA	ASK HOURS
INTERVAL	INTERVAL TASK-HOURS		TASK-HOURS
M S	0.8 2.1	W U	0.2 0.2

- KEY -

		EXPECTED TEMPERATURES			
LUBRICANTS	CAPACITY	Above+32°F Above0°C	+ 40°F to-10°F + 5°C to-23°C	0°F to-65°F -18°C to-54°C	INTERVALS
OE/HDO Lubricating oil, (MIL-L-2104) engine	As Required	OE/HDO	OE/HDO		U - Before Using
GAA Grease, automotive (MIL-G-10924F) and artillery	As Required				W-Weekly M-Monthly
FRH Hydraulic Fluid, petroleum,	30 gal		All Temperatures		S-Semiannually
(MIL-H-46170B) (H-544) inhibited	(113.55-liters)				
OEA Lubricating oil, ice (MIL-L-10295 arctic	As Required			OEA	

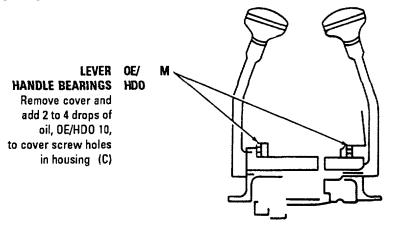
NOTES

- 9. HYDRAULIC PUMP UNIT. Change the hydraulic fluid after the first month of operation and once a year for hard continuous service or every two years for light service. Change hydraulic fluid as follows:
- Step a. Operate the hydraulic system until the oil is warm. Stop the pump and drain all oil from tank and remainder of system.
- Step b. Remove tank access plate and clean sump. Remove strainer element and clean with diesel oil. Reinstall strainer element and access plate.
- Step c. Refill tank with clean FRA hydraulic oil, 30 gal (113.55 liters). Operate the system and maintain the tank oil level. Continue to operate system to purge air from the lines for smooth and quiet operation. Add hydraulic oil as required to maintain the proper level as system fills.

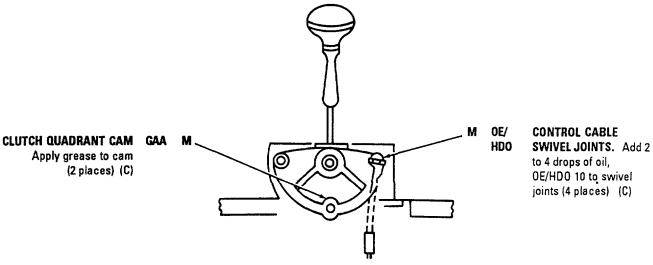
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LUBRICANT • INTERVAL

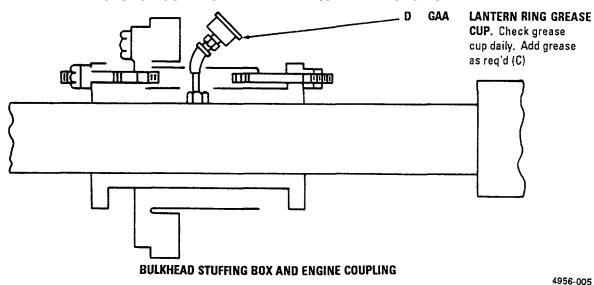
INTERVAL • LUBRICANT



PILOT HOUSE CONTROL LEVERS, SECTIONAL VIEW



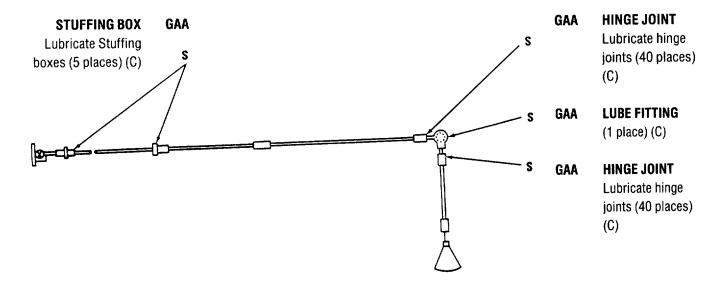
CLUTCH CONTROL LEVER AND QUADRANT SECTIONAL VIEW



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LUBRICANT • INTERVAL

INTERVAL • LUBRICANT



*TOTAL TA	SK HOURS	*TOTAL TA	ASK HOURS
INTERVAL	INTERVAL TASK-HOURS		TASK-HOURS
D M	0.1 0.5	S	1.5

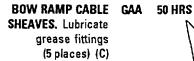
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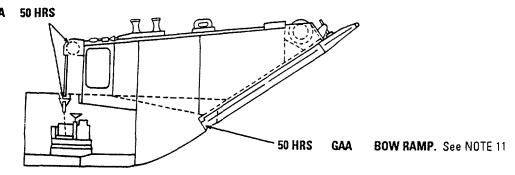
-1KL1-						
			EXPECTED TEMPERATURES			
LUBR	RICANTS	CAPACITY	Above +32°F Above 0°C	+ 40°F to-10°F + 5°C to -23°C	0°F to-65°F -18°C to -54°C	INTERVALS
OE/HDO	Lubricating oil,	As Required	OE/HDO	OE/HDO		
(MIL-L-2104)	engine	As Required		All		D - Daily
				Temperatures		
	ating oil, ice,				OEA	M - Monthly
(MIL-L-10295)	arctic					S - Semiannually

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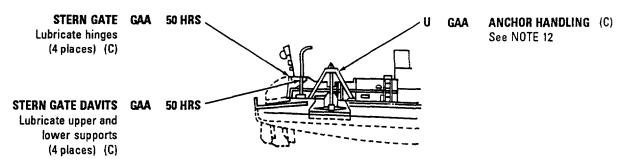
LUBRICANT.• INTERVAL

INTERVAL.• LUBRICANT

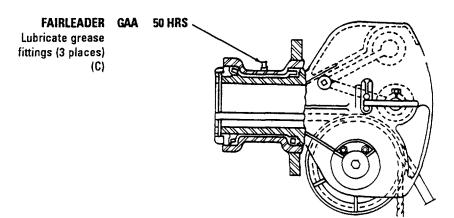




BOW RAMP AND WINCH



STERN GATE AND HINGED ANCHOR "A" FRAME



SMITH BERGER FAIRLEADER MODEL 714

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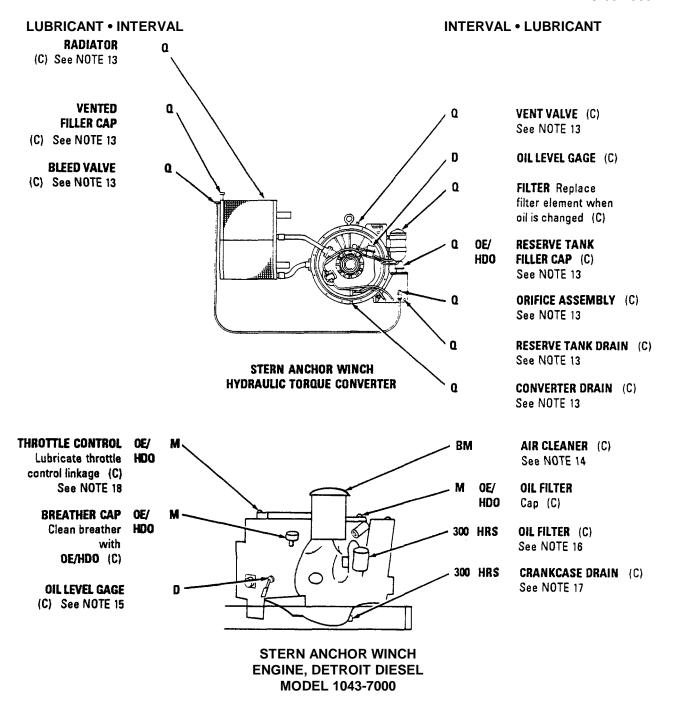
*TOTAL TA	SK HOURS	*TOTAL TA	ASK HOURS
INTERVAL	INTERVAL TASK-HOURS		TASK-HOURS
D M	0.3 1.0	U S	0.3 0.1

		EXPE			
LUBRICANTS	CAPACITY	Above + 32°F Above 0°C	+ 40°F to -10°F +5°C to -23°C	0°F to -65°F -18°C to-54°C	INTERVALS
OE/HDO Lubricating oil, (MIL-L-2104) engine	As Required				U - Before Using
G090 Lubricating oil, gear,	1 gal		D - Daily		
(MIL-L-2105) multipurpose	(3.78 liters)		W - Weekly		
GAA Grease, automotive (MIL-G-10924F) and artillery	As Required				M - Monthly
OEA Lubricating oil, ice (MIL-L-10295) arctic	As Required			OEA	S - Semiannually A - Annually

NOTES

- 10. BOW RAMP WINCH. Lubricate pawl, when used, with OE/HDO. Check reducer oil level monthly. Add G090 as required. Replace reducer oil with 1 gal (3.78 liters) every six months. Lubricate coupling with OE/HDO annually. Lubricate brake nut with OE/HDO annually.
- 11. BOW RAMP. Lubricate ramp hinge (10 places) with GAA. Lubricate cable and sheaves with GAA. Lubricate wildcat (2 places) with GAA. Lubricate dog assembly (2 places) with GAA.
- 12. ANCHOR HANDLING. Lubricate wire rope cutter, when used with GAA. Lubricate slack puller daily with GAA. Lubricate "A" frame leg hinge pin weekly (2 places) with GAA. Lubricate "A" frame fairleader weekly (2 places) with GAA. Lubricate "A" Frame Guide Sheave weekly with GAA.

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*TOTAL TA	*TOTAL TASK HOURS		ASK HOURS
INTERVAL	TASK-HOURS	INTERVAL	TASK-HOURS
BM D	0.2 0.1	Q M	1.0 0.5

		EXPEC			
LUBRICANTS	CAPACITY	Above +32°F Above 0°C	+40°F to-10°F + 5°C to -23°C	0°F to -65F -18°C to -54°C	INTERVALS
OE/HDO Lubricating oil, (MIL-L-2104) engine		OE/HDO 30	OE/HDO 10		BM - Bi-monthly
OFA Lubricating all ica	As Beguired			OEA	D - Daily
OEA Lubricating oil, ice, (MIL-L-10295) arctic	As Required			OEA	M-Monthly
GAA Grease, automotive			All Temperatures		
(MIL-G-10924F) and artillery			remperatures		Q - Quarterly

NOTES

- 13. CHANGING TORQUE CONVERTER FLUID. Change the torque converter fluid every three months. Make certain the winch engine is not operating. Do not drain oil into bilges; use the oil separation and recovery system to collect the drained oil. To drain converter remove plug in bottom of turbine housing. Remove plug in reserve tank. Drain radiator. Clean screen element in bottom of reserve tank and remove orifice assembly. Clean filter screen and hole in orifice. Install orifice assembly and drain plug. Open vent valve on top of the turbine housing and bleed valve on top of the radiator. Remove radiator filler cap. Add approximately 7 gallons (26.5 liters) of oil (OE/HDO) through the radiator filler opening until fluid flows from the vent on top of the turbine housing. Close vent valve and continue filling, until the oil level reaches the filler opening. Then close bleed valve. Tightly install filler cap to prevent leakage when operating. Remove filler cap from reserve tank. Fill tank with approximately 3 qts (2.84 liters) of oil (OE/H DO), to one inch below the full mark on dip stick. Install filler cap, start engine and operate at half throttle. Check all fittings for leaks. Check pressure gage for operating pressure. Normal operating pressure is 45 to 65 PSI, and fluid temperature is under 200°F when converter is properly filled and vented. The pressure gage responds instantly to full pressure upon starting engine and zero pressure upon stopping. Sluggishness indicates air trapped within unit requiring further venting at the high point bleed valve. At part-throttle operation, check reserve tank oil level frequently to ensure adequate fluid level. Add fluid as required.
- 14. DRY TYPE AIR CLEANER. Clean air cleaner element with compressed air every two months, and replace annually.

CAUTION Air pressure at nozzle of air hose must not exceed 100 PSI.

Inspect cleaned element. If thin spots, pin holes or rupture is found, replace element.

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NOTES (Cont)

- 15. OIL LEVEL GAGE. Check oil level daily before starting engine. Add oil as required to bring it to full level mark.
- 16. OIL FILTER. Drain oil from crankcase (see note 17). Remove filter element, clean housing and install new element. Fill crankcase with 15 qts (14.19 liters) of oil (OE/HDO). Operate engine for 5 minutes, check for leaks, check crankcase oil level and bring to full mark.
- 17. CRANKCASE DRAIN. Do not drain oil into bilges; use oil separation system to collect drained oil.
- 18. OIL CAN POINTS. Lubricate control linkages, clevises, pins and all exposed adjusting threads with OE/ HDO oil.

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LUBRICANT • INTERVAL INTERVAL • LUBRICANT WORM SHAFT BEARINGS GAA DRUM BEARINGS GAA Lubricate worm shaft Lubricate drum bearings (2 places) bearings (2 places) (C) GAA **INTERMEDIATE SHAFT WORM SHAFT** GAA W BEARINGS **CARRIAGE GUIDE RODS** Lubricate shaft bearings Lubricate carriage GAA D (2 places) (C) guide rods, 2 places (C) 2110TH HYDRAULIC TANK **VERTICAL ROLLERS** (See NOTE 20) (C) Lubricate vertical **GAA FILTER** rollers, 2 places (C) Clean or replace **FAIRLEAD GEARS** monthly (C) Pour on fairlead **UNIVERSAL JOINTS** gears while winch Lubricate universal is operating (C) joints (2 places) **FAIRLEAD PINION SHAFT** GAA (C) Lubricate fairlead pinion shaft grease **GAA DRIVE BRAKE** Lubricate drive fittings (C) STERN ANCHOR WINCH brake (C) **TOP VIEW FAIRLEAD DRIVE CHAINS** DRUM BEARING **GAA** Add oil to oil can D Lubricate drum fitting (C) bearings (2 places) (C) TOP ROLLERS GAA D Lift Cap & Add GAA CW **DRUM GEARS** Pour on drum gears **FLANGE BUSHINGS** OE/ D while winch is Add oil to oil can HDO operating (C) fitting (3 places) (C) GAA **DRIVE COUPLING** Foot Brake Pedestal GAA D Lubricate drive Lubricate foot brake coupling (C) pedestal (2 places) GAA DISCONNECT CLUTCH **GEAR DRIVE BREATHER** G090 M Lubricate Clean Breather and disconnect clutch change oil (C) (2 places) (C) D SLACK PULLER **GAA** Lubricate slack puller GAA **HANDLE LUBE** STERN ANCHOR WINCH SIDE VIEW (4 places) (C) POINT. (1 place) (C)

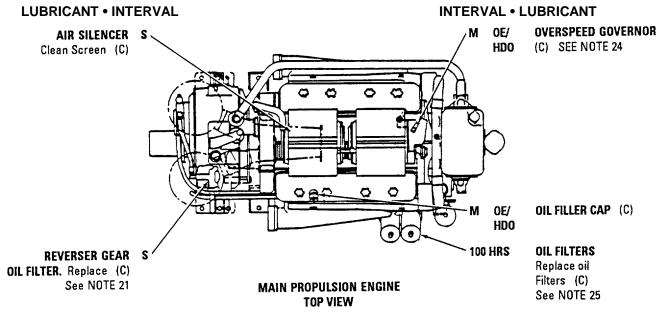
*TOTAL TA	*TOTAL TASK HOURS		ASK HOURS
INTERVAL	TASK-HOURS	INTERVAL	TASK-HOURS
D W	1.0 0.3	M A	1.1 2.0

		EXPE	CTED TEMPERAT	TURES	
LUBRICANTS	CAPACITY	Above + 32°F	+ 40°F to -	0°F to -65°F	INTERVALS
		Above 0°C	10°F + 5°C to -23°C	-18°C to -54°C	
OE/HDO Lubricating oil, (MIL-L-2104) engine	As Required				
GAA Grease, automotive (MIL-G-10924F) and artillery	As Required				D- Daily
GAA Grease (MIL-G-81322)	As Required				W - Weekly
G090 Lubricating oil, gear	10 gal		All Temperatures		,
(MIL-L-2105) multipurpose	(37.85 liters)		Temperatures		M - Monthly
CW Lubricating oil, (W-L-751) exposed gear	As Required				A - Annually
FRH Hydraulic fluid, petroleum, (MIL-H-46170B) (H-544) inhibited	55 gal (208.18 liters)				-
OEA Lubricating oil, ice (MIL-L-10295) arctic	As Required			OEA	

NOTES

- 19. GEAR DRIVE ASSEMBLY. Clean breather and change G090 oil, 1 pt (.47 liters) monthly. Change GO oil, 10 gal (37.85 liters) in gear drive assembly every six months. Do not drain oil into bilges; use oil separation and recovery system to collect the drained oil.
- 20. HYDRAULIC TANK. Clean strainer monthly. Clean breather monthly. Change FRH oil, 55 gal (208.18 liters) annually. Do not drain oil into bilges; use oil separation and recovery system to collect the drained oil.

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LUBRICANT-• INTERVAL

INTERVAL • LUBRICANT

ENGINE OIL LEVEL GAGE (C) **REVERSE GEAR** (C). See NOTE 2 OIL **STRAINER REVERSE GEAR OIL FILLER CAP** Clean (C) Breather Type Strainer (C) **REVERSE GEAR OIL LEVEL** CRANKCASE OIL DRAIN 100 hrs GAGE (C) (C) See NOTE 22 W GAA S

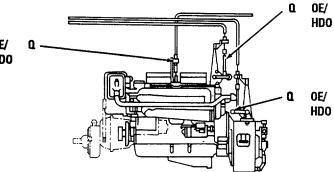
OUTPUT BEARING

REVERSE GEAR OIL DRAIN (C). See NOTE 26

REVERSE GEAR, END VIEW

ENGINE EMERGENCY OE/ SHUT DOWN LINKAGE HDO

Lubricate Control Linkage with 2 to 4 drops of oil (12 places) (C) See NOTE 23



ENGINE CONTROLS MAIN PROPULSION ENGINE **DETROIT DIESEL MODEL 7122-700** **ENGINE CONTROL DISCONNECT.** Lubricate control disconnects (2) with 2 to 4 drops of oil (C). See NOTE 23

ENGINE CONTROL UNIT BEARING Lubricate control unit bearings (4) with 2 to 4 drops of oil (C)

See NOTE 23

4956-011

*TOTAL TASK HOURS		*TOTAL T/	ASK HOURS
INTERVAL	TASK-HOURS	INTERVAL	TASK-HOURS
D M	0.10 1.00	Q S	0.5 0.80

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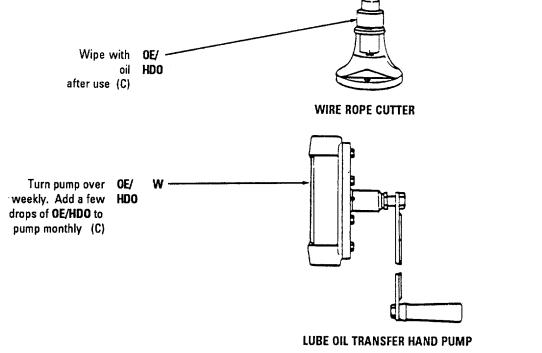
		EXF	EXPECTED TEMPERATURES			
LUBRICANTS	CAPACITY	Above +32°F	+ 40°F to-10°F	0°Fto-65°F	INTERVALS	
		Above 0°C	+ 5°C to -23°C	-18°C to -54°C		
OE/HDO Lubricating oil, (MIL-L-2104) engine OEA Lubricating oil, ice, (MIL-L-10295) arctic	58 qts (54.9 liters)	OE/HDO 30	OE/HDO 10	OEA	D- Daily M - Monthly Q-Quarterly	
GAA Grease, Automotive (MIL-G-10924F) and artillery	As Required		All Temperatures		S - Semiannually	

NOTES

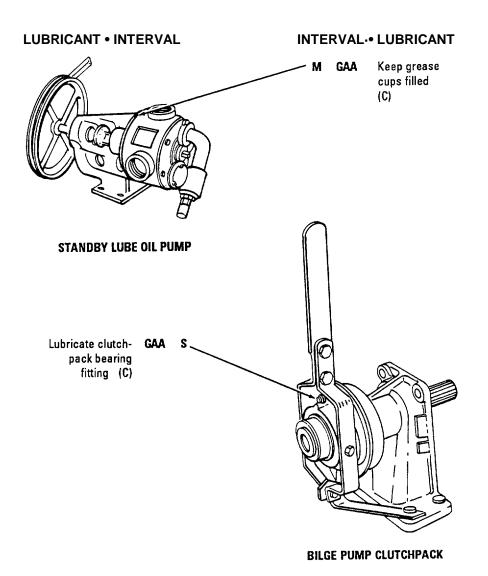
- 21. REVERSE GEAR OIL FILTER. Drain oil from reverse gear reservoir (See Note 26). Remove filter element and install new element. Fill reverse gear reservoir with 24 qts (22.7 liters) of OE/HDO. Operate engine 5 minutes. Check for leaks, check reservoir oil level and bring to full mark.
- 22. CRANKCASE DRAIN. Do not drain oil into bilges; use oil separation system to collect drained oil.
- 23. OIL CAN POINTS. Lubricate control linkages, devises, pins and all exposed adjusting threads with OE/HDO.
- 24. OVERSPEED GOVERNOR. Do not lubricate the overspeed governor while the engine is operating. Avoid excessive lubrication. Add 5 or 6 drops of OE/HDO to hinge-type cap oiler or oil cups.
- 25. ENGINE OIL FILTERS. Drain oil from crankcase (See note 20). Remove filter elements, clean housings and install new elements. Fill crankcase with 34 qts (32.2 liters) of OE/HDO. Operate engine 5 minutes. Check for leaks, check crankcase oil level and bring to full mark.
- 26. REVERSE GEAR OIL DRAIN. Do not drain oil into bilges. Use oil separation system to collect drained oil.

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LUBRICANT • INTERVAL



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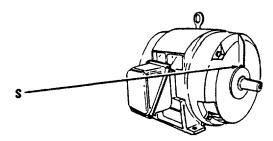


*TOTAL TA	*TOTAL TASK HOURS		ASK HOURS
INTERVAL	TASK-HOURS	INTERVAL	TASK-HOURS
W M	0.1 0.1	S	0.1

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		EXPE	EXPECTED TEMPERATURES			
LUBRICANTS	CAPACITY	Above + 32°F Above 0°C	+ 40°F to -10°F + 5°C to -23°C	0°F to -65°F -18°C to - 54°C	INTERVALS	
OE/HDO Lubricating oil, (MIL-L-2104) engine GAA Grease, automotive (MIL-G-10924F) and artillery	As Required		All Temperatures		W - Weekly S - Semiannually	
OEA Lubricating oil, ice, (MIL-L-10295) arctic		OEA			M - Monthly	

LUBRICANT • INTERVAL



BALL BEARINGS GAA (See NOTE 27) (C)

STANDARD INTEGRAL HORSEPOWER INDUCTION MOTORS FIRE PUMP MOTOR, 30 HP SALT WATER CIRC. PUMP MOTOR, 5 HP RED GEAR LUBE OIL PUMP MOTOR, 1-1/2 HP AIR COMPRESSOR, 10 HP

(See NOTE 28)

FRACTIONAL HORSEPOWER MOTORS
FRESH WATER PUMP MOTOR, 3/4 HP
FLUSH WATER PUMP MOTOR, 1-1/2 HP
SEA WATER COOLING PUMP MOTOR, 3/4 HP
VESTIBULE FAN MOTOR, 1/5 HP
FAN MOTOR, 1-114 HP
FAN MOTOR, 3/4 HP
FAN MOTOR, 1/3 HP
NAVIGATION HORN AIR COMPRESSOR MOTOR, 1/2 HP

*TOTAL TA	*TOTAL TASK HOURS		ASK HOURS
INTERVAL	TASK-HOURS	INTERVAL	TASK-HOURS
S	0.1		

		EXPECTED TEMPER	ATURES	
LUBRICANTS	CAPACITY	Above + + 40°F to-10°F 32°F	0°F to-65°F	INTERVALS
		Above 0°C + 5°C to -23°C	-18°C to -54°C	
GAA Grease, automotive (MIL-G-10924F) and artillery	As Required	All Temperature	S	S - Semiannually

NOTES

27. BALL BEARINGS. Use only clean grease from clean container, and use care to keep it clean. Never open a bearing housing in a dusty atmosphere. Never open a bearing housing without cleaning off all dirt from adjacent surfaces.

Always protect an exposed bearing with a protective cover.

Remove plug from filling hole.

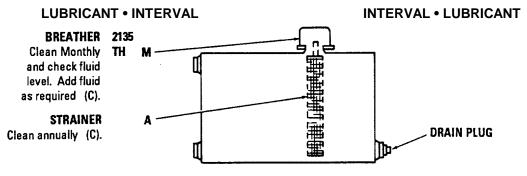
Force GAA grease through filling hole until grease appears at drain hole or along shaft.

Replace plug after motor has run for at least 2 hours.

Wipe away excess grease.

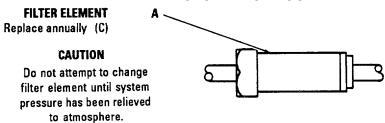
28. No lubrication is required. The initial lubrication is adequate for up to 10 years of operation under normal conditions. The initial lubricant is supplemented by a supply packed into reservoirs in the end shield at time of assembly.

Card 25 of 30



HYDRAULIC STARTING SYSTEM RESERVOIRS AFT ENGINE ROOM

FWD ENGINE ROOM ANCHOR WINCH ROOM



HYDRAULIC STARTING SYSTEM
HIGH PRESSURE FILTER (3 PLACES)
SUCTION FILTER (3 PLACES)

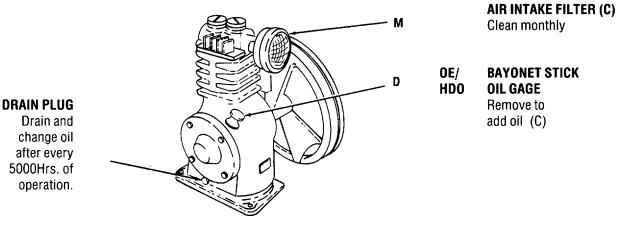
*TOTAL TA	*TOTAL TASK HOURS		ASK HOURS
INTERVAL	TASK-HOURS	INTERVAL	TASK-HOURS
M D	0.1 0.1	А	0.1

Card 26 of 30

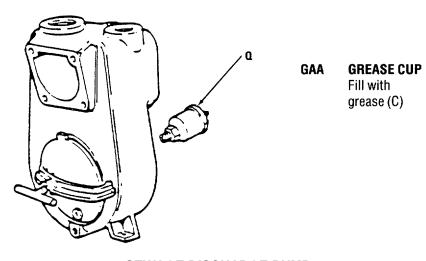
	EXPECTED TEMPERATURES				
LUBRICANTS	CAPACITY	Above	+40°F to-10°F	0°F to -65°F	INTERVALS
		+32°F Above 0°C	+ 5°C to-23°C	-18°C to-54°C	
FRH Hydraulic fluid, (MIL-L-46170B) petroleum, inhibited					M - Monthly
(H-544)	As Required		All Temperatures		A - Annually
CW Lubricating oil (VV-L-825) Compressor					D - Daily

LUBRICANT • INTERVAL

INTERVAL • LUBRICANT







SEWAGE DISCHARGE PUMP

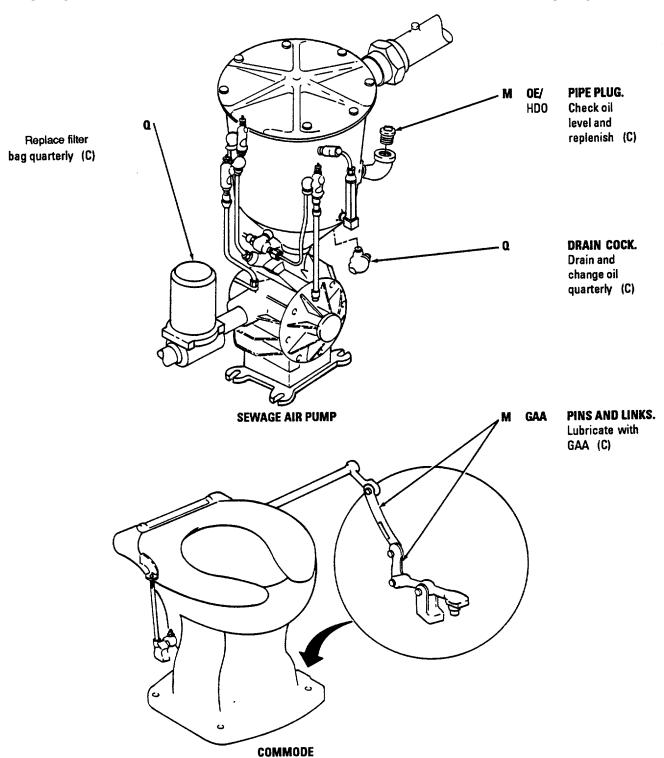
Card 27 of 30

*TOTAL TA	ASK HOURS	*TOTAL TASK HOURS		
INTERVAL	TASK-HOURS	INTERVAL	TASK-HOURS	
D Q	0.1 1.0	М	0.2	

- KEY -

		EXPE			
LUBRICANTS	CAPACITY	Above + 32°F Above 0°C	+ 40°F to -10°F + 5°C to -23°C	0°F to -65°F -18°C to -54°C	INTERVALS
GAA Grease, automotive (MIL-G-10924F) and artillery					D-Daily
OE/HDO Lubricating oil, (MIL-L-2104) engine	As Required		All Temperatures		Q - Quarterly M - Monthly
OEA Lubricating oil, ice MIL-L-10295) arctic				OEA	j

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Card 29 of 30

*TOTAL T/	ASK HOURS	*TOTAL TASK HOURS			
INTERVAL	TASK-HOURS	INTERVAL	TASK-HOURS		
Q	1.0	М	0.2		

		EXPECTED TEMPERATURES			
LUBRICANTS	CAPACITY	Above +32°F Above 0°C	+40°F to-10°F + 5°C to-23°C	0°F to -65°F -18°C to-54°C	INTERVALS
OE/HDO Lubricating oil, (MIL-L-2104) engine GAA Grease, automotive (MIL-G-10924F) and artillery	As Required		All Temperatures		D - Daily M - Monthly Q - Quarterly
OEA Lubricating oil, ice, MIL-L-10295) arctic	-53			OEA	Q - Quarterly

By Order of the Secretary of the Army:

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

Official:

MILTON H. HAMILTON Administrative Assistant to the Secretary of the Army 01051

DISTRIBUTION:

To be distributed in accordance with DA Form 12-25E, (qty rqr bl no. 4248.)

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RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

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PUBLICAT	TION NUMBE	iR .			PUBLICATION D	ATE	PUBLICATION TITLE		
PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.	AND V	VHAT SHOUL		AT IS WRONG PONE ABOUT IT.		

DA 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE.

P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

THE METRIC SYSTEM AND EQUIVALENTS

Linear Measure

1 centimeter = 10 millimeters = .39 inch 1 decimeter = 10 centimeters = 3.94 inches 1 meter = 10 decimeters = 39.37 inches 1 dekameter = 10 meters = 32.8 feet 1 hectometer = 10 dekameters = 328.08 feet

1 kilometer = 10 hectometers = 3.2808.8 feet

Weights

1 centigram = 10 milligrams = .15 gram 1 decigram = 10 centigrams = 1.54 grains 1 gram = 10 decigram = .035 ounce 1 dekagram = 10 grams = .35 ounce 1 hectogram = 10 dekagrams = 3.52 ounces 1 kilogram = 10 hectograms = 2.2 pounds 1 quintal = 100 kilograms = 220.46 pounds 1 metric ton = 10 quintals = 1.1 short tons

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu in. 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Square measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. in. 1 sq. decimeter = 100 sq. centimeters = 15.5 inches 1 sq. meter (centare) = 100 sq. decimeters = 10.76 feet 1 sq. dekameter (are) = 100 sq. meters = 1.076.4 sq. ft. 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres

Liquid Measure

1 sq. kılometer = 100 hectometers = .386 sq. mıles

1 dekaliter = 10 liters = 2.64 gallons 1 hectoliter = 10 dekaliters = 26.42 gallons 1 kiloliter = 10 hectoliters = 264.18 gallons 1 liter = 10 deciliters = 33.81 fl. ounces 1 centiliter = 10 milliliters = .34 fl. ounce 1 deciliter = 10 centiliters = 3 38 fl. ounces 1 metric ton = 10 quintals = 1.1 short tons

Approximate Conversion Factors

To change	То	Multiply by	To change	То	Multiply by
inches	centimeters	2.540	ounce inches	newton-meters	.0070062
feet	meters	.305	centimeters	ınches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
sq. inches	sq. centimeters	6.451	kılometers	miles	.621
sq. feet	sq. meters	.093	sq. centimeters	sq. inches	.155
sq. yards	sq. meters	.836	sq. meters	sq. yards	10.764
sq. miles	sq. kilometers	2.590	sq. kilometers	sq. miles	1.196
acres	sq. hectometers	.405	sq. hectometers	acres	2.471
cubic feet	cubic meters	.028	cubic meters	cubic feet	35.315
cubic yards	cubic meters	.765	milliliters	fluid ounces	.034
fluid ounces	milliliters	29.573	liters	pints	2.113
pints	liters	.472	liters	quarts	1.057
quarts	liters	.946	grams	ounces	.035
gallons	liters	3.785	kilograms	pounds	2.205
ounces	grams	28.349	metric tons	short tons	1.102
pounds	kilograms	.454	pound-feet	newton-meters	1.356
short tons	metric tons	.907	•		
pound inches	newton-meters	.11296			

Temperature (Exact)

°F Fahrenheit temperature 5/9 (after subtracting 32) Celsius Temperature °C

PIN: 034785/000