

29 July 1994

(Supersedes LO 10-4610-215-12, 24 January 1992)

**WATER PURIFICATION UNIT, REVERSE OSMOSIS
600 GPH, TRAILER MOUNTED, FLATBED CARGO
5 TON 4 WHEEL TANDEM ROWPU
MODEL 600-1, NSN 4610-01-093-2380
AND
600 GPH, SKID MOUNTED ROWPU
MODEL 600-3, NSN 4610-01-113-8651**

**References: TM 5-4610-215-10 and
Federal Supply Catalog C9100-IL.**

REPORTING OF ERRORS

You can improve this publication by calling attention of errors and by recommending improvements and by stating our reasons for the recommendations. Your letter or DA Form 2028, Recommended Changes to Publications and Forms, should be mailed directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. Marine Corps users submit NAVMC 10772 form to: Commanding General (Code 850), Marine Corps Logistics Base, 814 Radford Blvd, Albany, GA 31704-5000. A reply will be furnished directly to you.

NOTES

Level of maintenance. 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).

Intervals and the related task hour times are based on normal 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.

Lubricate immediately after fording, or as soon after as unit movement permits.

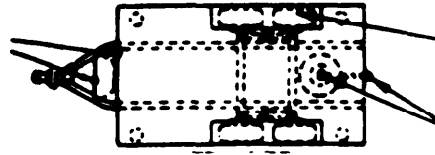
WARNING - Dry cleaning solvent, P-D-680, used to clean parts is potentially dangerous to personnel and property. Avoid repeated or prolonged skin contact. Do not use near open flame or excessive heat. Flashpoint of solvent is 100- 138°F (38°C).

Clean fittings before lubricating. Clean parts with solvent, dry cleaning P-D- 680 or an approved solvent. Dry fitting before lubricating.

DISTRIBUTION STATEMENT A — Approved for public release; distribution is unlimited.

LUBRICANT ● INTERVAL INTERVAL ● LUBRICANT

SAFETY STOP HINGES
(C) OE/HDO Q

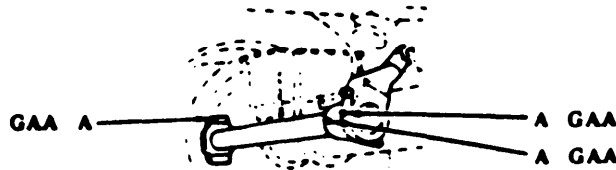


WHEEL BEARINGS (O) (SEE
NOTE 1) (4 PLACES)
A GAA

Q OE/HDO SPARE TIRE
CARRIER WINCH AND
RATCHET (C)

TRAILER

BRAKE SPIDER (C)
(SEE NOTE 1)



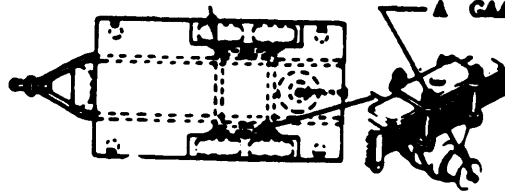
SLACK ADJUSTER (C)

CAM BRACKET (C)

BRAKE SPIDER AND SLACK ADJUSTER

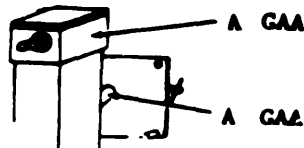
LUBRICANT • INTERVAL

(TYPICAL EIGHT PLACES)



Axle trunnion (C)

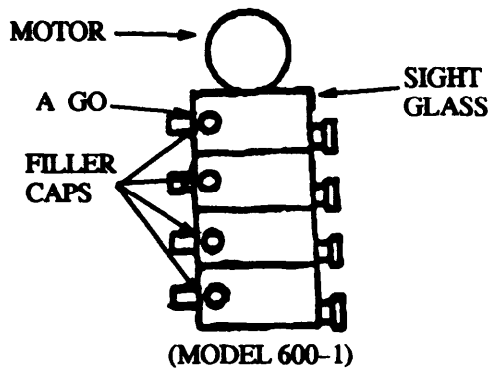
AXLE TRUNNION
(Typical Two Places)



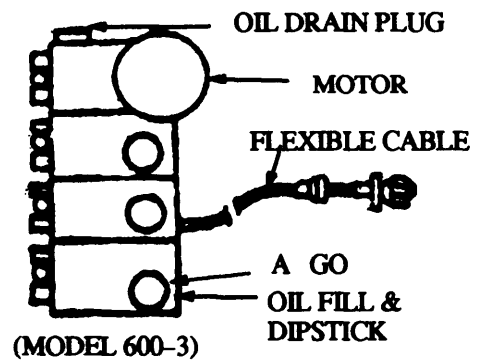
Jack assembly gear housing (C)

Swivel assembly (C)

SWIVEL AND JACK ASSEMBLIES
(TYPICAL FOUR PLACES)

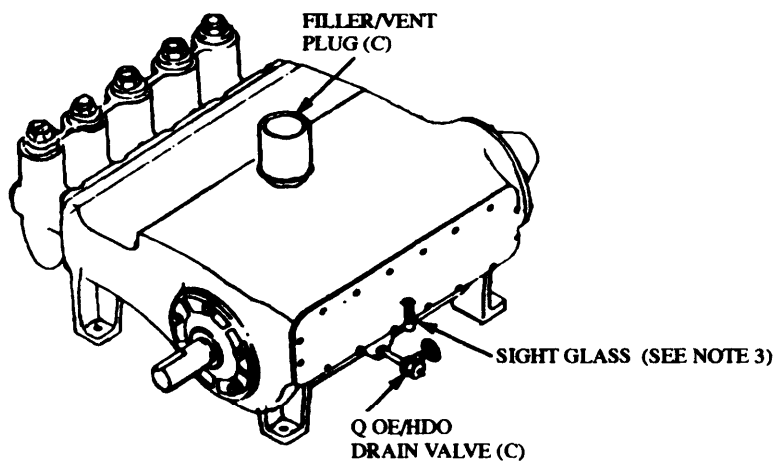


(MODEL 600-1)



(MODEL 600-3)

CHEMICAL FEED PUMP (SEE NOTE 2)



REVERSE OSMOSIS PUMP CRANKCASE (C)
(SEE NOTE 3)

KEY

INTERVALS																																																																																																																					
Q - 100 Hours or quarterly (3 months); A - 4000 Hours or annually (12 months)																																																																																																																					
Lubricants	Component	Capacity	EXPECTED TEMPERATURE																																																																																																																		
OE/HDO (Mil-L-2104) Lubricating Oil, ICE, Comba/ Tactical Service OEA (Mil-L-46167) Lubricating Oil, ICE, Arctic	Crankcase	8 Qt (7.7L)	<table border="1"> <thead> <tr> <th>*F</th> <th><-50</th> <th>-40</th> <th>-30</th> <th>-20</th> <th>-10</th> <th>0</th> <th>10</th> <th>20</th> <th>30</th> <th>40</th> <th>50</th> <th>60</th> <th>70</th> <th>80</th> <th>90</th> <th>100</th> <th>110</th> <th>120</th> </tr> <tr> <th>*C</th> <th><-46</th> <th>-40</th> <th>-34</th> <th>-29</th> <th>-23</th> <th>-18</th> <th>-12</th> <th>-7</th> <th>-1</th> <th>4</th> <th>10</th> <th>16</th> <th>21</th> <th>27</th> <th>32</th> <th>38</th> <th>44</th> <th>49</th> </tr> </thead> <tbody> <tr> <td colspan="19"> </td> </tr> <tr> <td colspan="19"> </td> </tr> <tr> <td colspan="19"> </td> </tr> <tr> <td colspan="19"> </td> </tr> </tbody> </table>	*F	<-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	100	110	120	*C	<-46	-40	-34	-29	-23	-18	-12	-7	-1	4	10	16	21	27	32	38	44	49																																																																												
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GAA (Mil-G-10924) Grease, Automotive and Artillery		As Rqrd	GAA (G-403) ALL TEMPERATURES																																																																																																																		
GO (Mil-L-2105) Lubricating Oil, Gear, Multipurpose	Chemical Feed Pump Blocks	3.63 Pt (1.76L)	<table border="1"> <thead> <tr> <th colspan="19">EXPECTED TEMPERATURES</th> </tr> <tr> <th>*F</th> <th><-50</th> <th>-40</th> <th>-30</th> <th>-20</th> <th>-10</th> <th>0</th> <th>10</th> <th>20</th> <th>30</th> <th>40</th> <th>50</th> <th>60</th> <th>70</th> <th>80</th> <th>90</th> <th>100</th> <th>110</th> <th>120</th> </tr> <tr> <th>*C</th> <th><-46</th> <th>-40</th> <th>-34</th> <th>-29</th> <th>-23</th> <th>-18</th> <th>-12</th> <th>-7</th> <th>-1</th> <th>4</th> <th>10</th> <th>16</th> <th>21</th> <th>27</th> <th>32</th> <th>38</th> <th>44</th> <th>49</th> </tr> </thead> <tbody> <tr> <td colspan="19"> </td> </tr> <tr> <td colspan="19"> </td> </tr> <tr> <td colspan="19"> </td> </tr> </tbody> </table>	EXPECTED TEMPERATURES																			*F	<-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	100	110	120	*C	<-46	-40	-34	-29	-23	-18	-12	-7	-1	4	10	16	21	27	32	38	44	49																																																									
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1. FOR ARCTIC OPERATIONS, REFER TO FM9-207. IF OEA LUBRICANT IS REQUIRED TO MEET THE LOW EXPECTED TEMPERATURE RANGE, OEA LUBRICANT IS TO BE USED IN LIEU OF OE/HDO-10 LUBRICANT FOR ALL EXPECTED TEMPERATURES WHERE OEA IS SPECIFIED.

2. OE/HDO IS ONLY APPROPRIATE DOWN TO 0° FAT WHICH TIME THE USE OF OEA IS RECOMMENDED.

INTERVALS: Q - 100 HOURS OR QUARTERLY (3 MONTHS)
 A - 4,000 HOURS OR ANNUALLY (12 MONTHS)

1. Under extremely dusty conditions, repack the wheel bearings after 125 hours or 3,000 miles, whichever comes first. Jack up the flatbed cargo trailer. Remove the bolts and washers securing the hub cap to the hub. Remove the hub cap and gasket. Bend tab of spindle tongue washer up to allow removal of outer spindle nut. Using spindle nut wrench and handle, available from a towing vehicle, remove outer spindle nut. Remove spindle tongue washer. Using the spindle nut wrench and handle, remove inner spindle nut; then, remove spindle lock washer.

Carefully remove tire and wheel assembly and hub and drum assembly as single unit. Remove grease retainer assembly from hub; then, remove the inner bearing cone. Clean bearing cones, grease retainer assembly and inside portion of hub with solvent. Pack Bearing cones with GAA grease. Lubricate brake spider fitting when hub assembly has been removed. Use care not to over lubricate and cause excessive amount of grease to contaminate brake shoes.

2. Check oil level in sight glass daily. Add oil when necessary to return oil to level indicator mark on the sight glass. Use lubricating oil, gear, multi-purpose MIL-L-2105.

CAUTION — The chemical feed pump must not be operated on preservative oil, or oil that has had preservative added to it. Damage to pump can result and will void warranty. If in doubt, drain and refill with fresh oil.

To add oil, remove fill plug from pump body. Add a small amount of oil at a time to allow time for oil to seep through pump body. Then recheck oil level.

Drain oil quarterly. To drain oil, remove drain plug.

Refill with fresh oil to level indicated on sight glass.

3. Check oil level in sight glass daily. Add oil when necessary to maintain oil level between indicator marks on the sight glass. Use lubricating oil, internal combustion engine, tactical service MIL-L-2104.

CAUTION — The reverse osmosis pump must not be operated on preservative oil, or oil that has had preservative added to it. Damage to pump can result and will void warranty. If in doubt, drain and refill with fresh oil.

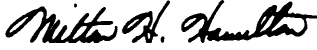
After first week of operation with a new pump, drain crankcase by opening drain valve. Remove magnetic plug and wipe contaminants from plug end. Refill through filler/vent plug.

Drain oil quarterly and refill.

LO 10-4610-215-12
LI 08580A-12A

By Order of the Secretaries of the Army and Navy (Including the Marine Corps):

Official:



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DISTRIBUTION:

To be distributed in accordance with DA Form 12-25-E, block no. 5349, requirements for LO 10-4610-215-12.

Copy of this lubrication order will remain with the equipment at all times; instructions contained herein are mandatory.

