

**TANK AND PUMP UNIT, LIQUID DISPENSING
FOR TRUCK MOUNTING
(ADVANCED INDUSTRIES MODEL 1800)
NSN 4930-00-070-1181**

References: TM 5-4930-228-14 and C9100-IL

Reporting errors and recommending improvements. You can improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to Commander, U.S. Army Troop Support Command, ATTN: AMSTR-MMTS, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished to you.

This LO is for Operator/crew (C) or Unit (0) maintenance. Lube intervals (on-condition or hard time) are based on normal operation. Lube more during constant use, and less during periods of low activity. Use correct grade of lubricant for seasonal temperature expected.

Intervals (on-condition or hard time) and the related work-hour times are based on normal operation. The work-hour 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 conditions, including longer than usual operating hours.

The hard time interval may be extended during periods of low activity. If extended, adequate preservation precautions must be taken. Hard time intervals will be applied in the event AOAP laboratory support is not available or required.

Ensure Tank and Pump Unit is level before checking oil levels.

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

On the picture a dash line (--) means lube points on both sides.

Clean parts with dry cleaning solvent (SD), type II or equivalent. Dry before lubricating. Drain oils while they are warm.

Before you start your lube service:

ALWAYS

- a. Clean grease fittings before lubrication.
- b. Use the lubrication order as your guide.

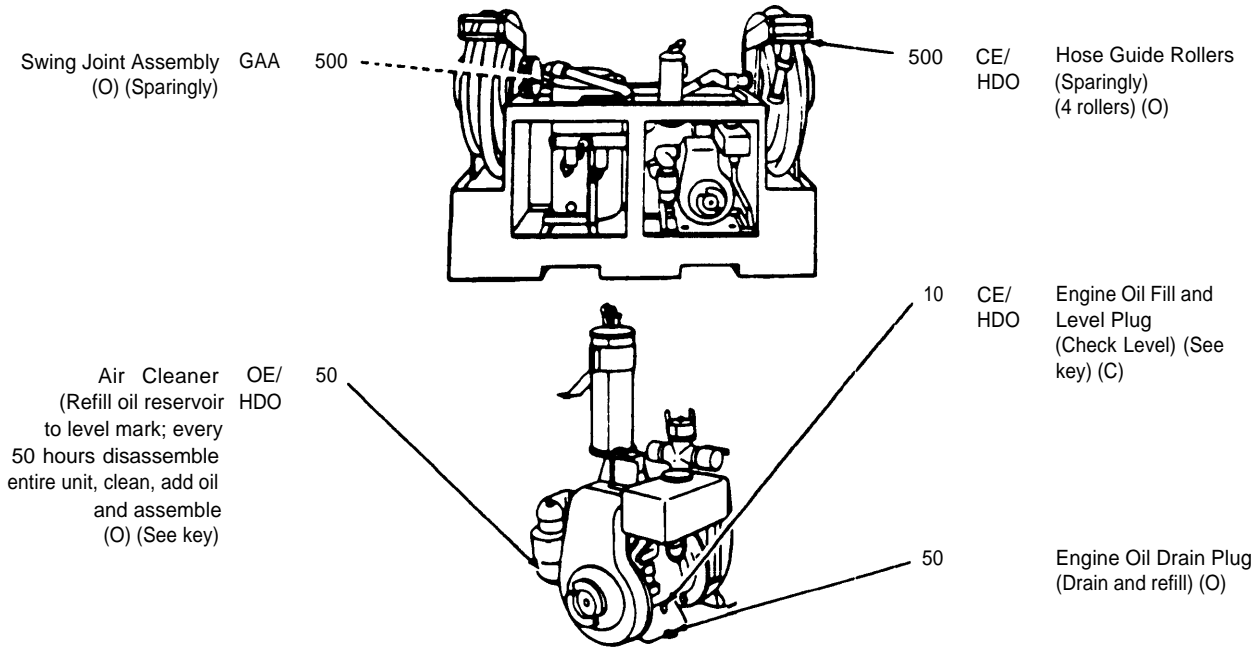
NEVER

- a. Use wrong type/grade grease.
- b. Use too much lubricant.

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

LUBRICANT ● INTERVAL

INTERVAL ● LUBRICANT



*TOTAL WORK-HR		*TOTAL WORK-HR	
INTERVAL	WORK-HR	INTERVAL	WORK-HR
10	0.4	500	0.1
50	0.3		

* The time specified is the time required to perform all services at the particular interval (on-condition or hard time).

KEY

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURE	INTERVALS
OE/HDO Lubricating oil, ICE, Tactical MIL-L-2104 OEA Lubricating Oil, ICE, Arctic MIL-L-46167 Engine Crankcase Oil Can Points		SEE CHART A	Intervals Are Given In Hours of Normal Operation
Air Cleaner	0.25 qt (0.24 L)	SEE CHART B	
GAA Grease, Automotive and MIL-G-10924 Artillery Wheel Bearings	As required All temperatures	GAA (G-403) All temperatures	

CHART A

LUBRICANT	EXPECTED TEMPERATURES																			
	°F	-70	-60	-50	-40	-30	-20	-10	0	+10	+20	+30	+40	+50	+60	+70	+80	+90	+100	+120
	°C	-57	-51	-46	-40	-34	-29	-23	-18	-12	-7	-1	+4	+10	+16	+21	+27	+32	+38	+49
OE/HDO Lubricating Oil, ICE, Tactical (MIL-L-2104) OEA Lubricating Oil, ICE, Arctic (MIL-L-46167)																				
OE/HDO-15/40 (0-1236)																				
OE/HDO-10* (0-237)																				
OE/HDO-30 (0-238)																				
OE/HDO-40 (N/A)																				
OEA* (0-183)																				

* 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 OE/HDO-10 is specified.

CHART B: LUBRICANTS FOR USE IN THE AIR CLEANER.

LUBRICANT	EXPECTED TEMPERATURES																			
	°F	-70	-60	-50	-40	-30	-20	-10	0	+10	+20	+30	+40	+50	+60	+70	+80	+90	+100	+120
	°C	-57	-51	-46	-40	-34	-29	-23	-18	-12	-7	-1	+4	+10	+16	+21	+27	+32	+38	+49
OE/HDO Lubricating Oil, ICE, Tactical (MIL-L-2104) OEA Lubricating Oil, ICE, Arctic (MIL-L-46167)																				
OE/HDO-15/40 (0-1236)																				
OE/HDO-10* (0-237)																				
OEA* (0-183)																				

*If OEA lubricant is required to meet the low expected-temperature range, OEA lubricant is to be used in lieu of OE-HDO-10 and OE/HDO-15/40 lubricant for all expected temperatures where OE/HDO-10 and OE/HDO-15/40 is specified.

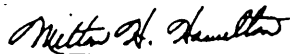
NOTES

1. FOR OPERATION OF EQUIPMENT IN PROTRACTED COLD TEMPERATURES BELOW -10°F (-23°C). Remove lubricants prescribed in the key for temperatures above -10° F (-23°C). Clean parts with SOLVENT, dry cleaning. Relubricate with lubricants specified in the key for temperatures below -10°F (-23°C).
2. OIL CAN POINTS. Every 500 hours clean and lightly coat control linkage, hose guide rollers and all exposed adjusting threads with OE/HDO.
3. If OEA lubricant is required to meet the low temperature range, OEA lubricant is to be used in lieu of OE/HDO 10 lubricants for all expected temperatures where OE/HDO 10 is specified.

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:

Official:



MILTON H. HAMILTON

*Administrative Assistant to the
Secretary of the Army*

00488

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

Distribution:

To be distributed in accordance with DA Form 12-25E, (qty rqr block no. 3817)