

CARRIER, PERSONNEL, FULL TRACKED, ARMORED, M113A2:

2350-01-068-4077

CARRIER, COMMAND POST, LIGHT, TRACKED, M577A2:

2350-01-068-4089

CARRIER, MORTAR, 107-MM, SELF-PROPELLED, M106A2:

2350-01-069-6931

CARRIER, MORTAR, 81-MM, SELF-PROPELLED, M125A2:

2350-01-068-4087

CARRIER, SMOKE GENERATOR, FULL TRACKED, M1059:

2350-01-203-0188

CARRIER, MORTAR, 120-MM, SELF-PROPELLED, M1064:

2350-01-338-3116

**CARRIER, STANDARDIZED INTEGRATED COMMAND POST
SYSTEM, M1068:**

2350-01-354-5657

Reference: TM 9-2350-261-10; TM 9-2350-261-20; TM 11-7010-256-12&P; PAM 738-750 ;
IL 9100SL; TB 43-0211; FOR ARCTIC OPERATIONS, FM 9-207; FOR
DESERT OPERATIONS, FM 90-3; FOR MOUNTAIN OPERATIONS, FM 90-6

REPORTING OF ERRORS

You can improve this publication by calling attention to errors, 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, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-AC-NML, Rock Island, IL 61201-9948. A reply will be furnished directly to you.

Intervals (on-condition or hard time) and the related man-hour times are based on normal operation. The man-hour time specified is the time you need to do all the services prescribed for a particular interval. Hard time intervals will be indicated by one of the following symbols as appropriate: Daily (D), Weekly (W), Monthly (M), Semiannually (S),

and Annually (A). 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 lubricants are contaminated or if you are operating equipment under adverse operating conditions, including longer-than-usual operating hours. The hard time intervals may be extended during periods of low

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activity if adequate preservation precautions are taken. Hard time intervals will be applied to oil changes in the event AOAP Laboratory support is not available.

NOTE

Hard time intervals will always apply to oil filter elements.

On-condition (OC) AOAP Laboratory determined oil change intervals shall be applied instead of hard time intervals such as hourly, calendar, or mileage, unless otherwise notified. The services will be required when directed by an Army Oil Analysis Program (AOAP) Laboratory which has analyzed the oil for serviceability.

WARNING

Dry cleaning solvent PD-680 is toxic and flammable. Wear protective goggles and gloves; use only in well ventilated area; avoid contact with skin, eyes and clothes, and do not breathe vapors. Keep away from heat and flame. Never smoke when using solvent; the flash point for Type I dry cleaning solvent is 100°F (380C) and for Type II is 138°F (500°C). Failure to do so may result in injury or death.

Clean fittings before lubricating. Clean parts with dry cleaning solvent, PD-680, Type III. Dry before lubricating.

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 Unit Maintenance (O). Unless specifically identified, all procedures apply to M113A2, M577A2, M106A2, M125A2, M1059, M1064, and M1068 carriers.

NOTE

Park carrier on level ground to check oil levels. Check/lubricate all oil and grease fitting points after washing or fording.

ARMY OIL ANALYSIS PROGRAM (AOAP)

AOAP is an effective maintenance diagnostic tool and not a maintenance substitute. TB 43-0211 must not be interpreted to mean AOAP minimizes, in any way, the need to employ good maintenance practices and strong maintenance disciplines.

SAMPLING REQUIREMENTS

Samples may be taken without WARMING a component to operating temperature if the equipment has been operated within the last 30 days. If the equipment has not been operated within the last 30 days, the components must be brought to operating temperature. These requisites apply to both routine and special sampling. Oil samples must not be taken immediately after oil is added. When oil sampling valve is not available to take oil sample, use a vampire pump.

SAMPLING PROCEDURES

1. Perform DAILY operation checks and services.

NOTE

DO NOT ADD OIL immediately prior to taking oil samples. When operation checks and services indicate the need to replenish oil levels WAIT until after taking samples. New oil added immediately prior to taking samples or before pro-longed operation of components will adversely effect oil analysis results.

2. Obtain two sample bottles (NSN 8125-01-082-9697) and two DA Form 2026s from the unit AOAP monitor.
3. Start engine (TM 9-2350-261-10). If required (refer to Sampling Requirements), operate carrier to bring engine and transmission up to normal operating temperatures.
4. Stop carrier and lock steering levers (TM 9-2350-261-10).

LUBRICATION ORDER

10 JULY 1990

LO 9-2350-261-12

(Supersedes LO 9-2350-261-12, July 1985)

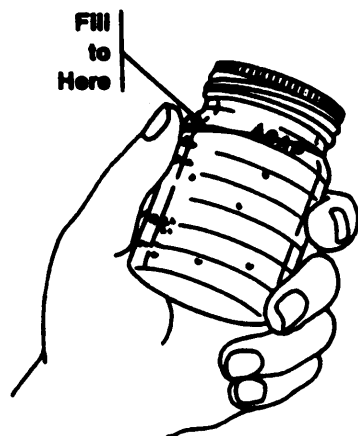
5. Place range selector in N position and keep engine running.
6. Remove driver's power plant access panel (TM 9-2350-261-10).
7. With engine running remove dust caps from engine and transmission oil sampling valves.
8. Open sample valve on engine oil filter and drain a small amount of oil into a container to clear valve of grit and contamination. (Properly dispose of container and oil upon completion of sample taking.) Fill sampling bottle to the neck shoulder and seal it. Attach DA Form 2026 to sample bottle.
9. Close oil sample valve and install dust cap.
10. Take oil sample from transmission in the same manner (steps 7 thru 9).
11. Stop engine (TM 9-2350-261-10).
12. Install driver's compartment power plant access panel and secure carrier.
13. Deliver sample bottles to the unit AOAP monitor.

LUBRICATION TABLE

The lubrication table on cards 4 and 5 summarizes the types of lubricants and quantities used on the carrier. Charts A thru E, referred to in the table, are located at the back of this Lubrication Order.

NOTE

For location of nearest AOAP Laboratory and complete information about AOAP, refer to TB 43-0210.



KEY

LUBRICANT	CAPACITIES	EXPECTED TEMPERATURE	INTERVALS
OE/HDO Lubricating Oil, ICE (MIL-L-2104) OEA Lubricating Oil, ICE, (MIL-L-46167) Arctic Engine Transfer Gearcase Differential Final Drives Fan Gearbox Ramp Wire Rope Oil Can Points	18 qt. (17.1 L) 2.5 qt. (2.4 L) 20 qt. (19.0 L) 3.5 qt. (3.3 L) 1 pt. (.47 L) As Required As Required	SEE CHART A	OC — On Condition Service When Directed by AOAP Laboratory D — Daily W — Weekly M — Monthly S — Semiannually 150 Hours, or 1500 Miles A — Annually 300 Hours, or 3000 Miles
Transmission	16 qt. (15.2 L)	SEE CHART B	
GAA Grease, Automotive and Artillery (MIL-G-10924) Towing Pintle & Steering Control Lever Universal Joint Road & Idler Wheel Bearings Road & Idler Wheel Support Arm Bearings	As Required As Required As Required As Required	GAA (G-403) ALL TEMPERATURES	
FRH Hydraulic Fluid, Rust Inhibited, Fire Resistant, Synthetic Hydrocarbon Base (MIL-H-46170) Pivot Steer System Ramp System	1 pt. (.47 L) 2 qt. (1.9 L)	SEE CHART C	

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(Supersedes LO 9-2350-261-12, July 1985)

KEY

LUBRICANT	CAPACITIES	EXPECTED TEMPERATURE	INTERVALS
GIA Grease, Aircraft and (MIL-G-23827) Instrument, Gear and Actuator Screw Tachometer and Speedometer Shaft CW-II Lubricating Oil: Chain, (VV-L-751) Wire Rope, and Exposed Gear GO Lubricating Oil, Gear (MIL-L-2105) Multipurpose Ramp Wire Rope	 As Required As Required	 GIA (G-354) ALL TEMPERATURES SEE CHART D	 OC — On Condition Service When Directed by AOAP Laboratory D — Daily W — Weekly M — Monthly S — Semiannually 150 Hours, or 1500 Miles
PL-S Lubricating Oil, General (VV-L-800) Purpose, Preservative, Water Displacing, Low Temperature PL-M Lubricating Oil, (MIL-L-3150) Preservative, Medium Machine Gun Mount & Bipod Assembly	 As Required	 SEE CHART E	 A — Annually 300 Hours, or 3000 Miles
CLP Lubricant, Cleaner and (MIL-L-63460) Preservative, For Weapons and Weapon Systems	 As Required	 CLP (S-758) ALL TEMPERATURES	

KEY NOTES:

1. **DEXTRON II** may be used when expected temperatures are above -40°F (-40°C). For temperatures below -40°F (-40°C) use OEA meeting specification MIL-L-46167.

LUBRICANT • INTERVAL

**ENGINE OIL
LEVEL**
(Check Level)
(See NOTES
3 & 9) (C)

OE/HDO

D

**Fill Mark
(Do Not Overfill)**

Gage Rod

**Engine Oil
Level**

ENGINE OIL FILL
(See NOTES
1, 2 & 3) (C)

OE/HDO

D

**ENGINE OIL
SAMPLE**
(See NOTES
4 & 5) (O)

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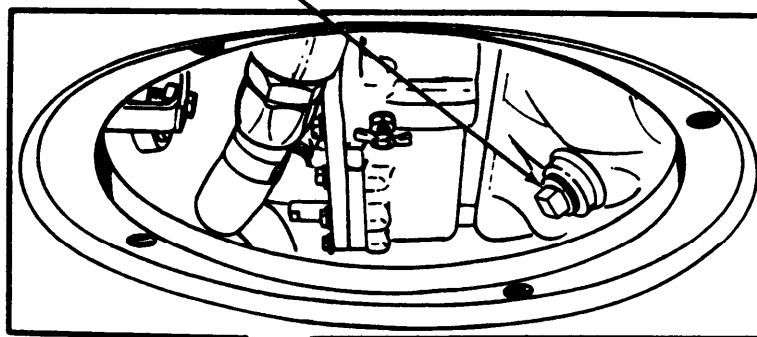
OC

**Engine
Oil Sampling
Valve**

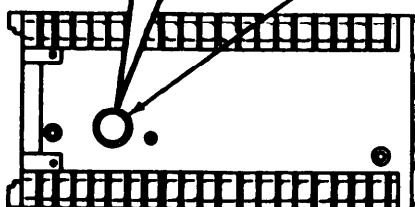
**ENGINE OIL
DRAIN**
(See NOTES
7 & 8) (O)

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OC



**Hull Button
Access Cover**



TOTAL MAN-HR	
INTERVAL	MAN-HR
D	0.3
OC	0.5