LUBRICATION ORDER

8 November 1993

SUPERSEDES L05-2350-262-12, 26 JUNE 1992

ARMORED COMBAT EARTHMOVER (ACE), M9 (2350-00-808-7100)

Reference: TM 5-2350-262-10, TM 5-2350-262-20-1, -2, TB 43-0210, and Supply Catalog C9100-IL

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help 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 Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 48397-5000. A reply will be furnished to you.

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

This lubrication order is divided into six sections, based on lubrication intervals (daily, monthly, quarterly, semiannually, annually, and on-condition).

An overall view showing lubrication points precedes each set of detailed notes.

A dotted leader line (- - -) means there are lubrication points on both sides of the vehicle.

Intervals are based on normal operation.

- Lubricate more often during constant operation.
- Relubricate all items found contaminated after fording, swimming, or high-pressure washing.

On-condition intervals for oil changes shall be determined by the Army Oil Analysis Program (AOAP) laboratory and shall be applied unless otherwise notified. See card 3 for oil sampling procedures.

- Oil filters shall be changed at prescribed hardtime intervals or sooner when:
 - a. They are known to be contaminated, or clogged:
 - b. Service is recommended by AOAP laboratory analysis.
- For equipment under manufacturer's warranty, hardtime oil service intervals shall be followed. Intervals shall be shortened if lubricants are known to be contaminated or if operation is under adverse conditions (such as longer-than-usual operating hours, extended idling periods, extreme dust).
- WARNING: Drycleaning solvent (SD-2) is toxic and flammable. Wear protective goggles and gloves, and use only in well-ventilated area. Avoid contact with skin, eyes, and clothes, and do not breathe vapors. Do not use near open flame or excessive heat. If you become dizzy while using drycleaning solvent, get fresh air immediately, and get medical aid. If contact with skin or clothing is made, flush with water. If contact with eyes is made, wash your eyes with water, and get medical aid immediately.
- For operation of vehicle in prolonged cold temperatures below -10~F (-23~C): remove lubricants prescribed in the key for temperatures above -10~F (-23~C), clean parts with drycleaning solvent (SD-2), and relubricate with lubricants specified in the key for temperatures 0~F to -65~F (-18~C to -54~C).

Operation in dusty or sandy areas requires more frequent cleaning and servicing of filters to prevent dust from entering engine, transmission, steer unit, and hydraulic system.

MAN-HOUR TIMES

The man-hour time specified is the time you need to do all the services prescribed for a particular interval. These times are based on normal vehicle operation.

LEVEL OF MAINTENANCE: C - - Operator

O -- Unit Maintenance

LUBRICATION POINTS

Type of lubricants used at each point are identified by arrows:



PL

GAA

OBSERVE THE FOLLOWING: NEVER use the wrong type grease. **NEVER** use too much lubrication.

ALWAYS clean grease fittings with drycleaning solvent (SD),

type II or equivalent, and dry before lubricating.

ALWAYS use the lubrication order.

—KEY—								
	EXPECTED TEMPERATURES							
LUBRICANTS	CAPACITIES	Above +15°F (Above -9°C)	+40° to -15°F (44° to -26°C)	+40° to -65°F (+4° to -54°C)		INTERVALS		
OE/HDO LUBRICATING OIL, (MIL-L-2104) Internal Combustion Engine Tactical Service		,				D-Daily M-Monthly or 33 hours of oper-		
OEA LUBRICATING OIL, (MIL-L-46167) Internal Combustion Engine Artic		OE/HDO-30	OE/HDO-10	OEA		ation, whichever occurs first.		
Engine Crankcase, add 4 additional quarts (3.785 L) for filters	Refill 22 qts (20.812 L) Dry 30 qts (28.380 L)					Q-Quarterly (3 months) or 100 hours of oper- ation, whichever		
Winch	3.5 qts (3.312 L)					occurs first.		
Transmission, Steer Unit, Transfer Case, Oil Cooler and Lines	Refill 50 qts (47.300 L) Dry 78 qts (73.815 L)	OE/HDO-10	OE/HDO-10	OEA		S-Semiannually (6 months) or 200 hours of oper- ation, whichever occurs first.		
Hydraulic Tank	Refill 108 ats (102.206 L) Dry 128 ats (121.133 L)							
Hydraulic Tank Return Line Filter	4 qts (3.785 L)					A-Annually (12 months) or 400 hours of oper-		
GO LUBRICATING OIL, (MIL-L-2105) Gear, Multi-purpose		GO-85/140	GO-80/90	GO-75		ation, whichever occurs first.		
Final Drives (2)	8 qts each (7.571 L)		GO-80/90			OC-On-condition.		
GAA GREASE, Automotive (MIL-G-10924) and Artillery	ALL TEMPERATURES							
Roadwheel Hub Bearing		GAA	GAA	GAA				
CMD Molybdenum (MIL-G-21164) Disulfide	ALL TEMPERATURES							
Hatch Hinge Assembly		GMD	GMD	GMD				
PL (Medium General Purpose (MIL-L-3150) (special W-L-800)		PL-M Medium	PL-S Special	PL-S Special				
SD-2 SOLVENT, Drycleaning (P-D-680)	ALL TEMPERATURES							
	EXPECTED TEMPERATURES							

FUEL REQUIF	UEL REQUIREMENT'S – TEMPERATURE LIMITS (VV-F-800)						
Grade DF-2 Fue	ade DF-2 Fuel For use above +10°F (-12°C)*						
Grade DF-1**	For use below +10°F (-12°C) to above -20°F (-29°C)						
Grade DF-A	For use below -20°F (-29°C)						
Grade JP8	For use above -60°F (-51°C)						
* Usage temperature may vary dependent on the cloud point of the actual DF-2 fuel being supplied in the geographical area							
** DF-1 is not normally procured in CONUS or OCONUS Refineries will blend DF-2 with kerosene to meet temperature requirements of DF-1.							

(MIL-G-18458) GREASE, Wire Rope and Exposed Gear

WINCH CABLE and Drum

TOTAL MAN-HOU	IRS T	TOTAL MAN-HOURS			
INTERVAL MAN-HO	DURS INTE	INTERVAL MAN-HOURS			
D 0.3 M 1.0 Q 3.7	A	2.8 4.6 1.0			

Grease, Wire Rope and Exposed Gear

ALL TEMPERATURES

Grease, Wire Rope and Exposed Gear

GENERAL NOTE 1 If OEA lubricant is required to meet the temperature ranges specified in key, OEA is to be used in all places where OE/HDO-10 is specified.

Grease, Wire Rope and Exposed Gear

GENERAL NOTE 2 The use of OE/HDO 15W-40 in lieu of OE/HDO-30 is authorized. The OE/HDO 15W-40 can be used at all temperatures above 5°F (-15°C) for all components except the transmission, transfer case, steer unit and final drives.

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OIL ANALYSIS PROGRAM SAMPLING PROCEDURES

Note

Oil samples must be submitted to an assigned Army Oil Analysis Program (AOAP) laboratory every 25 engine hours or 30 days, whichever comes first, in accordance with TB 43-0210.

Three oil sampling valves (1) are located on the oil sampling manifold (2). The valves are identified by the plate (3) above the valves (1), and are used to sample oil from the following:

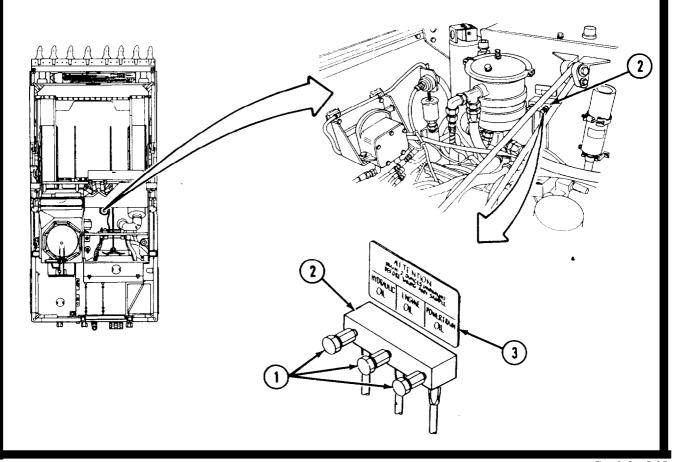
HYDRAULIC OIL SAMPLE — Samples oil from the entire vehicle hydraulic system.

ENGINE OIL SAMPLE — Samples vehicle engine oil.

POWERTRAIN OIL SAMPLE — Samples lubricating oil from the transmission and steer unit.

When a lubrication note specifies that an oil sample must be taken, use the following procedures:

- A Open engine intake grilles (TM 5-2350-262-10).
- B Ensure that oil to be sampled is at its normal operating temperature (TM 5-2350-262-10).
- C Open valve (1) of system or component to be sampled, and drain at least 2 oz (59 ml) of oil into a container. Close valve (1), and discard this oil.
- D Place sample bottle (TB 43-0210) under valve of system or component to be sampled, open valve (1), and fill sample bottle to approximately 1/2 in. (1.3 cm) below neck of bottle. Close valve (1).
- E Send oil sample to AOAP laboratory.
- F If no other tasks will be performed in the engine compartment, close engine intake grilles (TM 5-2350-262-10).

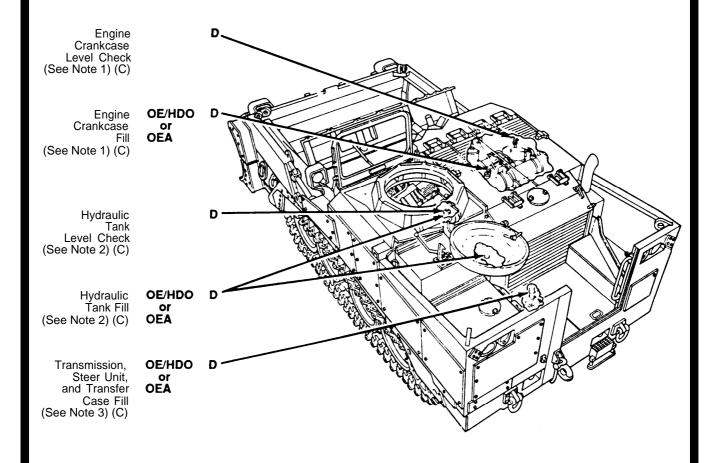


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DAILY NOTES

This page shows what to check or lubricate each day the vehicle is operated or driven.

LUBRICANT • INTERVAL



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DAILY NOTES (CONTINUED)

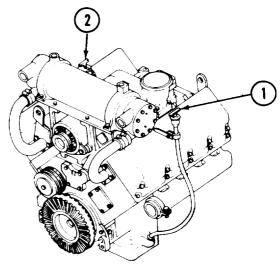
Note 1

ENGINE CRANKCASE

Access through intake grilles (TM 5-2350-262-10).

- A Check oil level before starting engine
- B Level should be between low (L) and high (H) marks on gage (1).
- C Add or drain OE/HDO or OEA as required. To add oil, remove filler cap (2) from rocker cover. Install cap (2) when done filling oil.
- D Take oil samples every 30 days. Refer to TB 43-0210 for sampling requirements and card 3 for oil sampling procedures.





Note 2

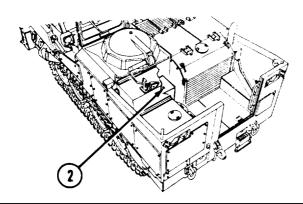
HYDRAULIC TANK

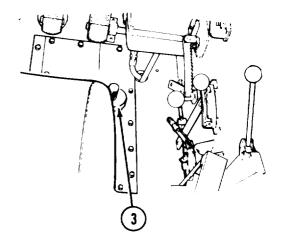
Note

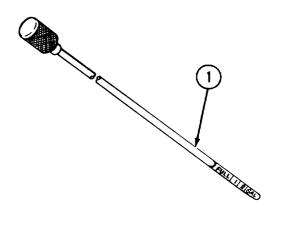
- Take oil sample (card 3) five days prior to annual lubrication. Submit oil sample to AOAP laboratory.
 Change oil only as directed by AOAP laboratory.
- Check hydraulic oil level with ejector retracted (back), apron down, and hydraulic pressure relieved.

Access through operator's hatch (TM 5-2350-262-10).

- A Check oil level on gage (1).
- **B** Oil level should be within the FULL marks.
- Add or drain OE/HDO-10 or OEA, as required. Add oil through either the primary fill point (2) or optional fill point (3).







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DAILY NOTES (CONTINUED)

Note 3

TRANSMISSION, STEER UNIT, AND TRANSFER CASE

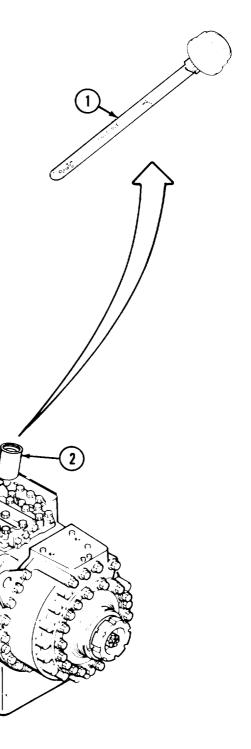
Access through rear floor plates (TM 5-2350-262-10).

CAUTION

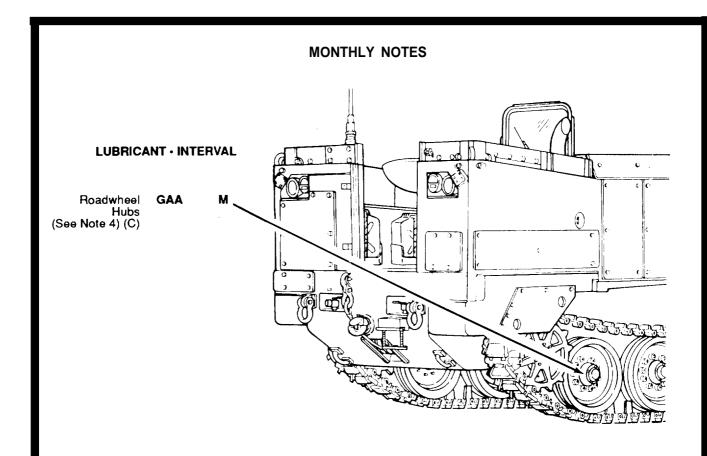
Do not overfill steer unit. Failure to comply may result in damage to equipment.

Note

- · The level on the steer unit gage is the level of all three units.
- · Engine must be running.
- A Start engine and run at idle speed (750 to 850 rpm) for 3 to 5 minutes.
- **B** Check oil level on gage (1). Oil should be in COLD IDLE or OPERATING RANGE of gage (1).
- **C** Add oil, OE/HDO-10 or OEA, through fill point (2), as necessary.
- D Remove excess oil if necessary. Use oil sample hose or syringe, if available.
- E Take oil samples every 30 days. Refer to TB 43-0210 for sampling requirements and card 3 for oil sampling procedures.



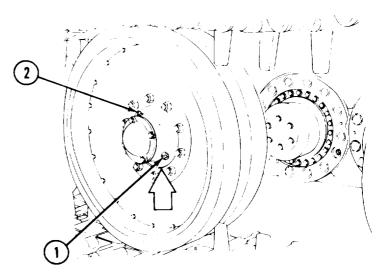
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Note 4

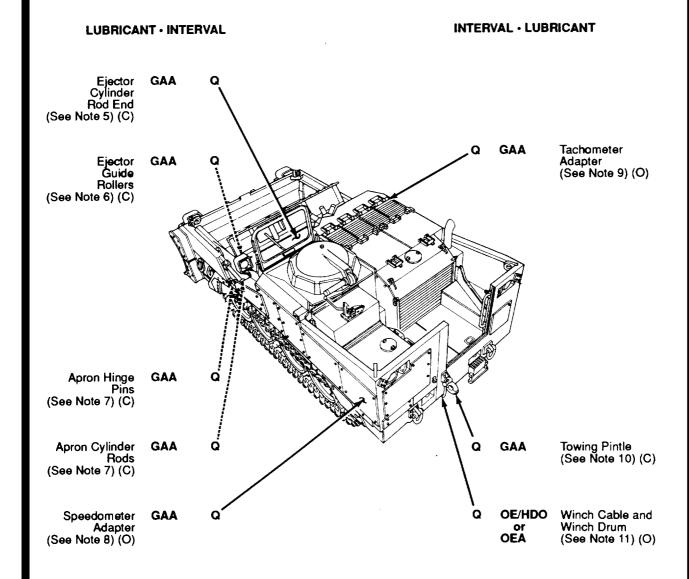
ROADWHEEL HUBS

Lubricate fitting (1) with GAA until grease comes out of safety relief valve (2).



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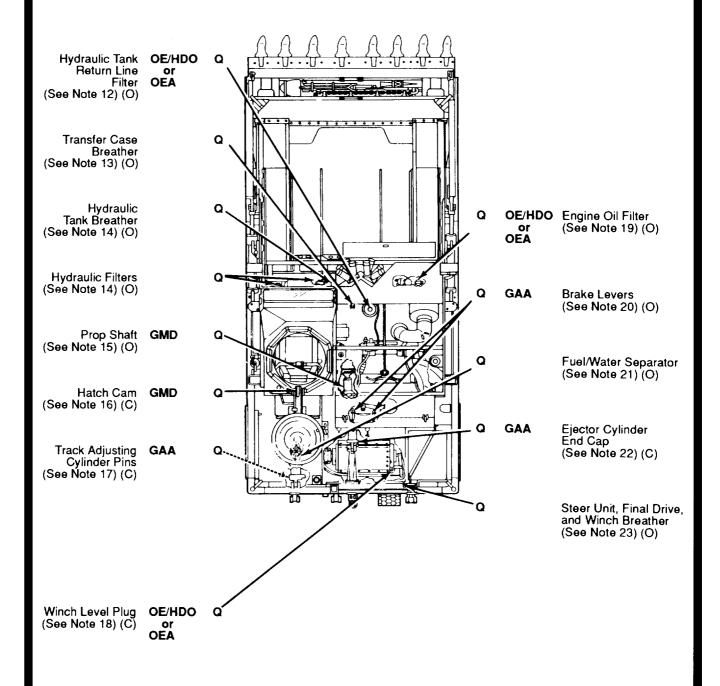
QUARTERLY NOTES



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LUBRICANT • INTERVAL

INTERVAL · LUBRICANT



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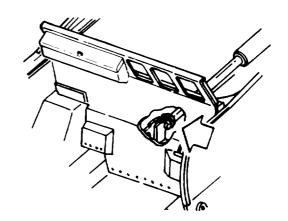
Note 5

EJECTOR CYLINDER ROD END

WARNING

Do not operate ejector when personnel are in bowl. Do not work in bowl unless ejector lock is engaged. Failure to comply may result in severe injury to personnel.

- A Move ejector forward.
- B Lubricate fitting with GAA.



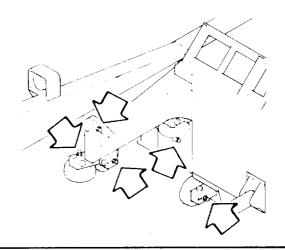
Note 6

EJECTOR GUIDE ROLLERS

WARNING

Do not operate ejector when personnel are in bowl. Do not work in bowl unless ejector lock is engaged. Failure to comply may result in severe injury to personnel.

- A Move ejector forward.
- B Lubricate 10 fittings (one on each roller shaft) with GAA.

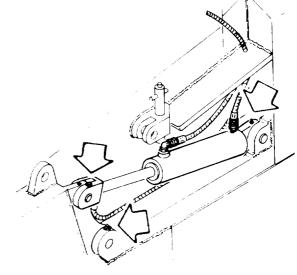


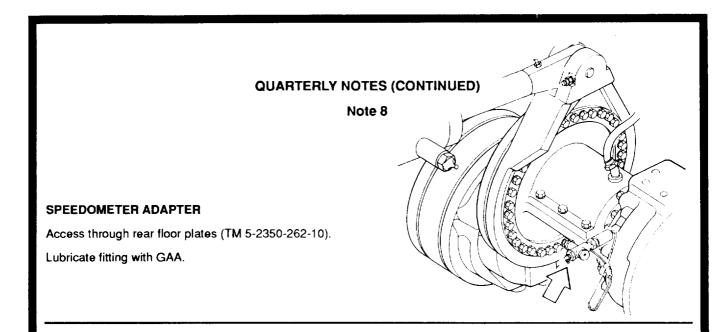
Note 7

APRON HINGE PINS AND CYLINDER RODS

Access through armor plate (TM 5-2350-262-10).

Lubricate three fittings with GAA.

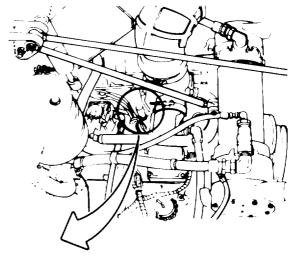


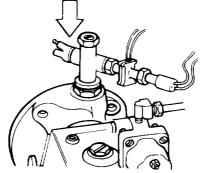


Note 9

TACHOMETER ADAPTER

Access through engine intake grilles (TM 5-2350-262-10). Lubricate with GAA.





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TOWING PINTLE Lubricate two fittings with GAA.

Note 11

WINCH CABLE AND DRUM

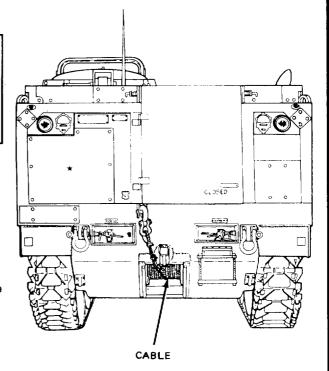
WARNING

Always wear leather gloves when handling wire rope. Never allow wire rope to run through hands. Broken or frayed wires may cause severe injury to personnel.

After use, clean cable and oil with OE/HDO or OEA.

Quarterly

- A Unwind and clean entire cable.
- **B** Brush-soak cable with oil (OE/HDO-30 or OEA).
- Wipe off excess oil. Coat cable and drum with wire rope grease.
- D Rewind cable.



Note 12

HYDRAULIC TANK RETURN LINE FILTER

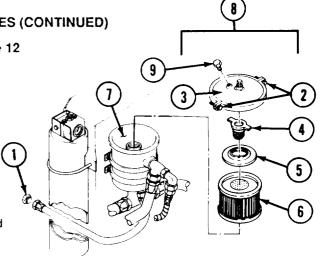
Access through intake grilles (TM 5-2350-262-10). Change filter quarterly or as a result of oil analysis.

- A Remove plug (1) and drain oil into suitable container.
- **B** Loosen two screws (2) and remove cover (3).

Note

Inspect gaskets for damage. Replace if necessary.

- C Unscrew valve (4) and remove retainer (5) and element (6).
- D Clean retainer (5) and inside of housing (7).
- E Install retainer (5) and new element (6) and reassemble filter assembly (8).
- F Remove plug (9) and fill filter with 4 qt (3.758 L) of OE/HDO-10 or OEA.



Note 13

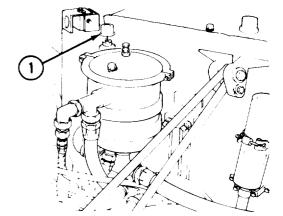
TRANSFER CASE BREATHER

Access through intake grilles (TM 5-2350-262-10).

WARNING

Refer to card 1.

- A Remove breather (1) and clean with drycleaning solvent (SD-2).
- **B** Dry, inspect, and install breather (1).



Note 14

HYDRAULIC FILTERS AND HYDRAULIC TANK BREATHER

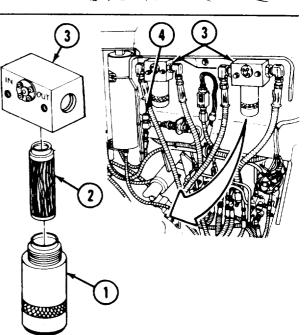
Change filters quarterly or as a result of oil analysis.

- A Move ejector forward (TM 5-2350-262-10).
- B Remove two filter bowls (1) and filter elements (2) from filters heads (3).
- C Clean two filters bowls (1) and replace filter elements (2).

WARNING

Refer to card 1.

- Install two filter bowls (1) and elements (2) in filter heads (3).
- **E** Remove breather (4) and clean with drycleaning solvent (SD-2).
- F Dry, inspect, and install breather (4).



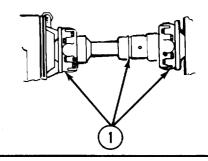
LO 5-2350-262-12

Note 15

PROP SHAFT

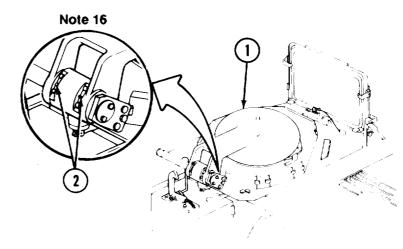
Access through left rear hull access cover (TM 5-2350-262-20-1).

Lubricate three fittings (1) with GMD.



HATCH CAM

- A Close hatch cover (1).
- B Lubricate two fittings (2) with GMD.

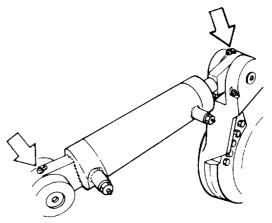


Note 17

TRACK ADJUSTING CYLINDER PINS

Access through rear floor plates (TM 5-2350-262-10).

Lubricate two fittings with GAA on left and right track adjusting cylinders.



Note 18

WINCH LEVEL PLUG

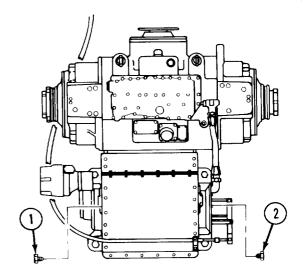
Access through rear floor plates (TM 5-2350-262-10).

- A Remove level plug (1).
- B Remove fill plug (2).
- C Fill winch slowly with OE/HDO or OEA until oil appears at level plug hole.

WARNING

Refer to card 1.

D Clean plugs (1) and (2) with drycleaning solvent (SD-2) and install.



ENGINE OIL FILTER

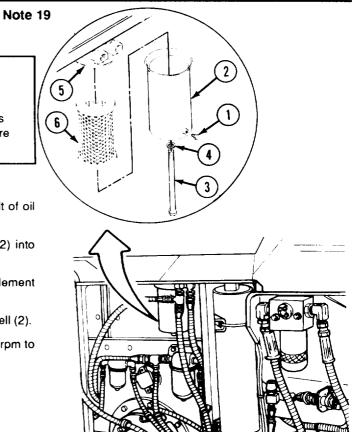
WARNING

Do not operate ejector when personnel are in bowl. Do not work in bowl unless ejector lock is engaged. Failure to comply may result in severe injury to personnel.

Move ejector forward.

Change element quarterly, at oil change, or as a result of oil analysis.

- A Remove drainplug (1) and drain oil from shell (2) into suitable container. Replace drainplug (1).
- Remove screw (3), washer (4), shell (2), and element (6) from filter head (5). Discard element (6).
- C Clean shell (2), and install new element (6) in shell (2).
- D Start and operate engine for 5 minutes at 1,000 rpm to circulate oil.
- E Stop engine and check oil level. Check for leaks.
- F Add OE/HDO or OEA as required.

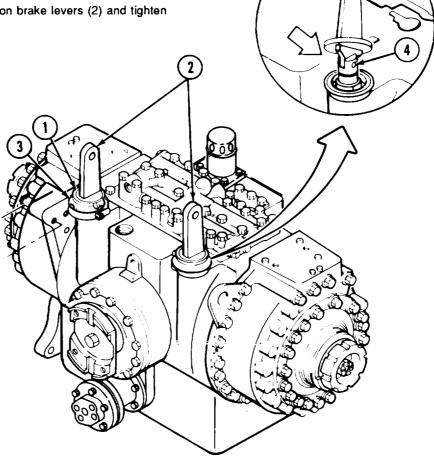


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BRAKE LEVERS

Access through rear floor plates (TM 5-2350-262-10).

- Loosen two clamps (1) and slide clamps (1) up on brake levers (2).
- В Slide boots (3) down from each brake lever (2).
- С Lubricate brake lever pivots (4) with GAA.
- For installation, slide two boots (3) up onto each brake D lever (2).
- Slide clamps (1) down on brake levers (2) and tighten Ε two clamps (1).



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Note 21

FUEL/WATER SEPARATOR

Access through rear floor plates (TM 5-2350-262-10).

WARNING

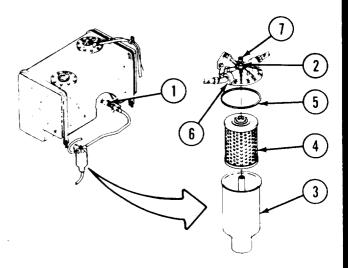
- Fuel is a combustible material. Do not smoke or allow sparks or open flames into areas where fuel is present. Failure to comply may result in severe injury to personnel or death. If injured, seek medical attention immediately.
- Components in bowl of fuel/water separator are under spring pressure and can fly out and injure personnel when retaining ring is removed.
- A Close fuel shutoff valve (1).
- **B** Loosen screw (2) and remove bowl (3). Pour fuel from bowl (3) into a 1 gal. (3.785 L) container.
- C Remove element (4) and gasket (5). Discard element (4) and gasket (5).

WARNING

Refer to card 1.

D Clean bowl (3) and cover (6) with drycleaning solvent (SD-2) and wipe dry with clean, lint-free cloth.

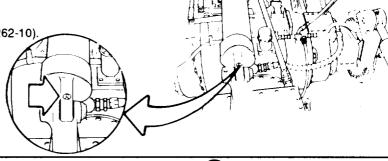
- E Install new gasket (5) and new element (4) in bowl (3).
- F Install bowl (3) on cover (6), and secure by tightening screw (2).
- G Loosen screw (7) and fuel shutoff valve (1).
- H When bowl (3) is filled with fuel, tighten screw (7).



EJECTOR CYLINDER END CAP

Access through rear floor plates (TM 5-2350-262-10)

Lubricate fitting with GAA.



Note 23

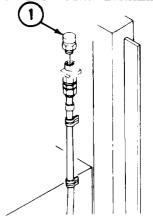
Note 22

STEER UNIT, FINAL DRIVE, AND WINCH BREATHER

WARNING

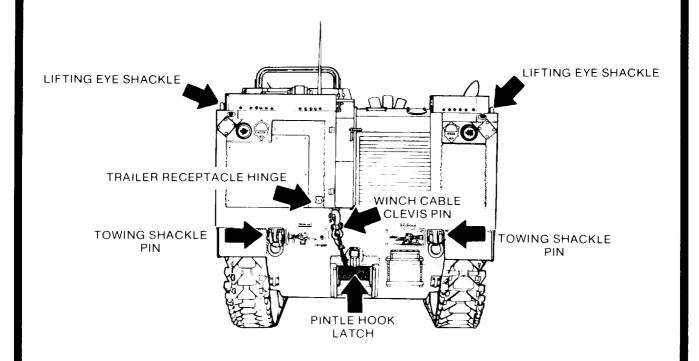
Refer to card 1.

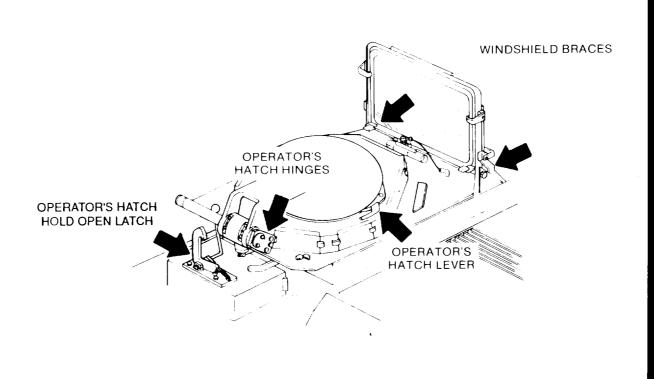
- A Remove breather (1) and clean with drycleaning solvent (SD-2).
- B Dry, inspect, and install breather (1).



OIL CAN POINTS

Lubricate quarterly with PL-M or PL-S





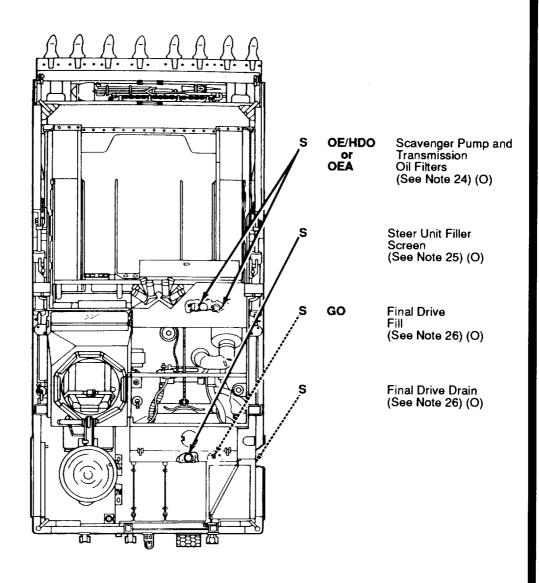
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QUARTERLY NOTES (CONTINUED) Lubricate quarterly with PL-M or PL-S LIFTING EYE SHACKLES APRON LOCKPINS DOZER LATCHES DOZER PIVOT PINS DOZER BLADE SHACKLE AND PIN TIEDOWN **DOZER** SHACKLES LOCKPINS FIRE EXTINGUISHER **HANDLE** BRAKE OPERATOR'S SEAT SLIDES LINKAGE HANDBRAKE **HANDLE** HULL DRAIN VALVE

LO 5-2350-262-12

SEMIANNUAL NOTES

INTERVAL - LUBRICANT



Note 24

SCAVENGER PUMP AND TRANSMISSION OIL FILTERS

WARNING

Do not operate ejector when personnel are in bowl. Do not work in bowl unless ejector lock is engaged. Failure to comply may result in severe injury to personnel.

Change semiannually or as a result of an oil analysis.

Move ejector forward (TM 5-2350-262-10).

- A Remove nut (1), packing (2), and bowl (3) from scavenger pump filter head (4). Discard packing (2).
- **B** Remove screw (5), washer (6), and shell (7) from transmission oil filter head (8).

WARNING

Refer to card 1.

- C Remove two nuts (9), scavenger pump filter element (10), and packing (11). Discard packing (11). Clean scavenger pump filter element (10) and bowl (3) with drycleaning solvent (SD-2) and install, using new packing (11).
- D Clean shell (7) with drycleaning solvent (SD-2). Replace transmission oil filter element (12) and gasket (13) and install.
- E Start and operate engine for 3 to 5 minutes at idle with the transmission in N (neutral) to circulate oil.
- F Check oil level at steer unit. Check for leaks.
- G Add OE/HDO or OEA, as required.

Note 25

STEER UNIT FILLER SCREEN

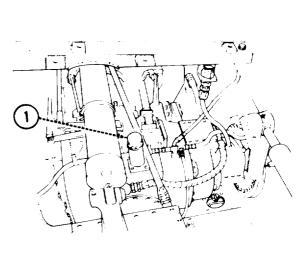
Access through rear floor plates (TM 5-2350-262-10).

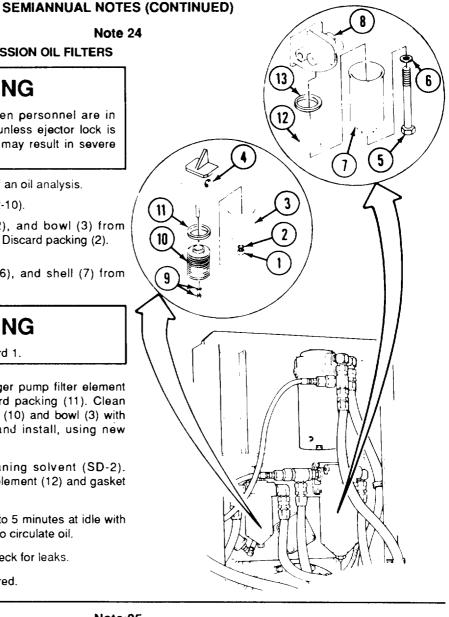
WARNING

Refer to card 1.

Remove steer unit filler neck (TM 5-2350-262-20-2).

- A Remove screen (1) and clean with drycleaning solvent (SD-2).
- B Dry, inspect screen (1), and install.





LO 5-2350-262-12 Card 21 of 28

SEMIANNUAL NOTES (CONTINUED)

Note 26

FINAL DRIVE DRAIN AND FILL

WARNING

Hot oil can cause severe injuries. Avoid splashing or spilling hot oil during draining. Failure to comply may result in injury to personnel.

Access through rear floor plates (TM 5-2350-262-10).

Note

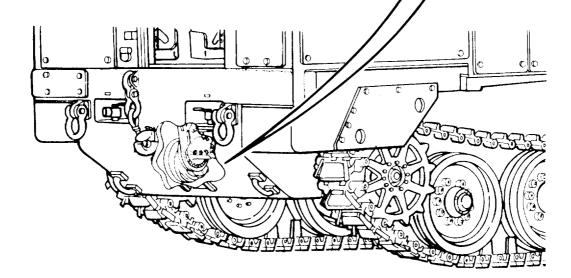
Drain oil only when hot.

A Remove drainplug (1) and drain final drive oil into suitable container.

WARNING

Refer to card 1.

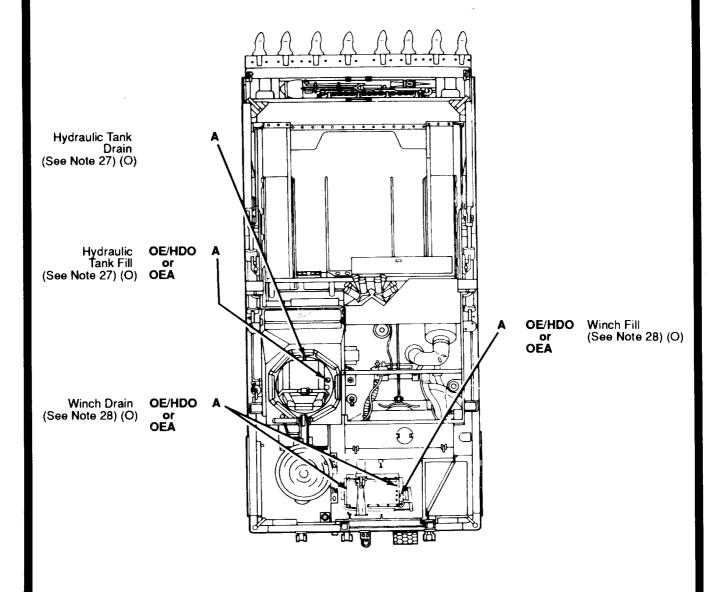
- **B** After draining, clean drainplug (1) in drycleaning solvent (SD-2) and install.
- C Tighten drainplug (1) to 75 to 83 lb-ft (102 to 112 N•m).
- Page 10 Below Properties of the Properties of
- E Clean fill plug (2) in drycleaning solvent (SD-2), wipe dry, and install.



ANNUAL NOTES

LUBRICANT - INTERVAL

INTERVAL - LUBRICANT



LO 5-2350-262-12 Card 23 of 28

ANNUAL NOTES (CONTINUED)

Note 27

HYDRAULIC TANK DRAIN AND FILL

Note

- Take oil sample (card 3) five days prior to annual lubrication. Submit oil sample to AOAP laboratory.
 Change oil only if directed by AOAP laboratory.
- Hydraulic tank capacity is 108 qt (102 L).

Access through plate on bottom of hull, under operator's compartment (TM 5-2350-262-20-1).

WARNING

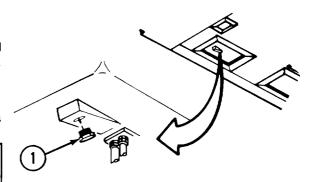
- Do not work under vehicle unless hull is blocked. Failure to comply may result in severe injury or death to personnel.
- Do not operate ejector when personnel are in bowl. Failure to comply may result in severe injury to personnel.
- A Retract ejector (TM 5-2350-262-10).
- B Remove plug (1) and drain oil into suitable container. Remove dipstick (2) to speed oil flow.

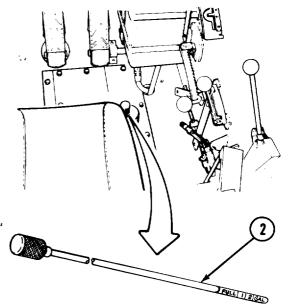
WARNING

Refer to card 1.

After draining, clean plug (1) in drycleaning solvent (SD-2) and install.

Fill hydraulic tank with OE/HDO or OEA, until dipstick
 indicates FULL.





Note 28

WINCH DRAIN AND FILL

С

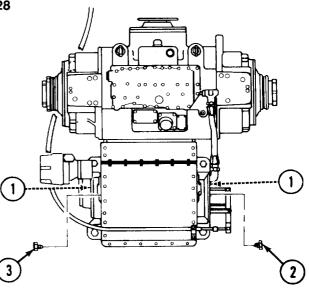
Access through rear floor plates (TM 5-2350-262-10).

A Remove two drainplugs (1) and drain oil into suitable container.

WARNING

Refer to card 1.

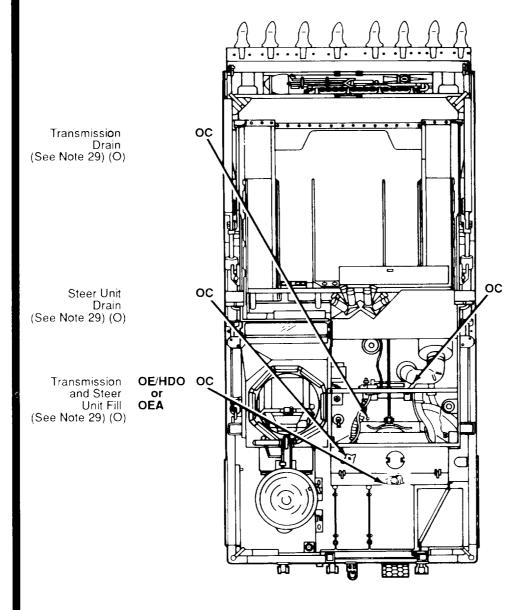
- **B** After draining, clean drainplugs (1) in drycleaning solvent (SD-2) and install.
- C Remove fill plug (2) and level plug (3).
- **D** Fill winch slowly with OE/HDO or OEA, until oil appears at level plug hole.
- E Clean plugs (2) and (3) with drycleaning solvent (SD-2) and install.



ON-CONDITION NOTES

LUBRICANT - INTERVAL

INTERVAL - LUBRICANT



Engine Crankcase Drain (See Note 30) (O)

LÕ 5-2350-262-12 Card 25 of 28

ON-CONDITION NOTES (CONTINUED)

Note 29

STEER UNIT AND TRANSMISSION DRAIN AND FILL

Note

- Steer unit and transmission refill capacity is 50 qt (47 L).
- · Drain oil only when hot.
- Drain when notified by the Army Oil Analysis Program (AOAP) laboratory.

Access through hull plug and plate under steer unit and transmission (TM 5-2350-262-20-1).

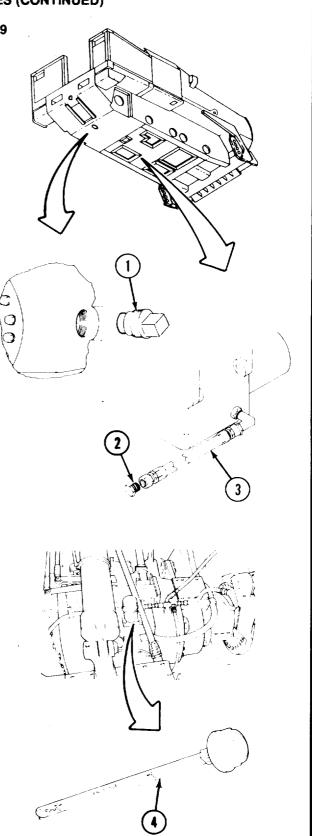
WARNING

- Do not work under vehicle unless hull is blocked. Failure to comply may result in severe injury to personnel or death.
- Hot oil can cause serious injuries. Avoid splashing or spilling hot oil during draining.
 Failure to comply may result in injury to personnel.
- A Remove plug (1) from steer unit and drain oil into suitable container.
- Remove plug (2) from hose (3) and drain residual oil from transmission and transfer case into suitable container.

WARNING

Refer to card 1.

- C After draining, clean plugs (1) and (2) in drycleaning solvent (SD-2) and install.
- D Remove gage (4) from steer unit and fill with OE/HDO or OEA.
- E Start engine and run at idle speed (750 to 850 rpm) for 3 to 5 minutes.
- F Check for leaks, and add oil to COLD IDLE or OPERATING RANGE indication on gage (4). Add oil if necessary, but do not overfill.
- G Stop engine.



ON-CONDITION NOTES (CONTINUED)

Note 30

ENGINE CRANKCASE DRAIN

Note

- Engine crankcase refill capacity is 22 qt (20.8 L).
- Drain oil only when hot.
- Drain when notified by the Army Oil Analysis Program (AOAP) laboratory.

Access through plate under engine (TM 5-2350-262-20-1).

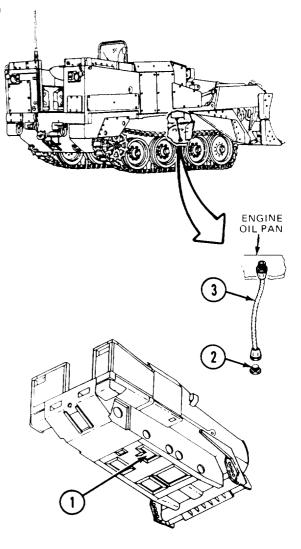
WARNING

- Do not work under vehicle unless hull is blocked. Failure to comply may result in severe injury to personnel.
- Hot oil can cause serious injuries. Avoid splashing or spilling hot oil during draining. Failure to comply may result in injury to personnel.
- Remove hull plate (1). Remove drainplug (2) from crankcase drain hose (3) and drain oil into suitable container.

WARNING

Refer to card 1.

- B Clean drainplug (2) in drycleaning solvent (SD-2) and install.
- C Replace oil filter element (See Note 19, Steps A, B, and C only).
- D Refill crankcase (See Note 1)



Copy of this Lubrication Order will remain with the vehicle 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:

Milto A. Samto MILTON H. HAMILTON Administrative Assistant to the Secretary of the Army

Distribution:

To be distributed in accordance with DA Form 12-37, Operator and Organizational level maintenance requirements for the ACE. M9.