

-KEY- (Cont'd)

LUBRICANTS	CAPACITIES	EXPECTED TEMPERATURES			INTERVALS
		Above +15°F (Above -9°C)	+40° to -15°F (+4° to -26°C)	+40° to -65°F (+4° to -54°C)	
GAA-GREASE, AUTOMOTIVE AND ARTILLERY (MIL-G-10924)	X	ALL TEMPERATURES			X
CW-LUBRICATING OIL, CHAIN, WIRE-ROPE, AND EXPOSED-GEAR (VV-L-751) WINCH WIRE ROPE	X	Above +80°F(+27°C)	+80° to +30°F (+27° to -1°C)	+30° to -30°F (-1° to -34°C)	-30° to -65°F (-34° to -54°C)
	X	CW-IIC	CW-IIB	CW-IIA	GO 75
GW-GREASE, WIRE-ROPE AND EXPOSED GEAR (MIL-G-18458)	X	ALL TEMPERATURES			X

FOR ARCTIC OPERATION, REFER TO FM 9-207

TOTAL MAN-HOURS

	D	W	M	Q	S	3/S	A	B	C/MR	OC
TRUCK, CHASSIS: 5-TON, 6X6, M939, M939A1, M940, M940A1, M941, M941A1, M942, M942A1, M943, M942A2, M943, M944, M944A1, M944A2, M945, M945A1	.3		.7	5.4	2.0	.5	2.1	.5	3.9	1.5
TRUCK, CARGO, DROPSIDE: 5-TON, 6X6, M923, M923A1, M923A2, M925, M925A1, M925A2	.3		.7	5.4	2.0	.5	2.1	.5	3.9	1.5
TRUCK, CARGO: 5-TON, 6X6, M924, M924A1, M926, M926A1	.3		.7	5.4	2.0	.5	2.1	.5	3.9	1.5
TRUCK, CARGO: 5-TON, 6X6, M927, M927A1, M927A2, M928, M928A1, M928A2	.3		.7	5.4	2.0	.6	2.1	.5	3.9	1.5
TRUCK, DUMP: 5-TON, 6X6, M929, M929A1, M929A2, M930, M930A1, M930A2	.3	.1	.7	5.4	2.3	.7	2.5	.5	3.9	1.5
TRUCK, TRACTOR: 5-TON, 6X6, M931, M931A1, M931A2, M932, M932A1, M932A2	.3		.7	5.7	2.0	.5	2.1	.5	3.9	1.5
TRUCK, VAN, EXPANSIBLE: 5-TON, 6X6, M934, M934A2, M935	.3		.7	5.4	2.7	.7	2.7	.5	4.9	1.5
TRUCK, VAN, EXPANSIBLE: 5-TON, 6X6, M934A1, M935A1, M935A2	.3		.7	5.4	2.7	.7	3.0	.5	4.9	1.5
TRUCK, WRECKER: 5-TON, 6X6, M936, M936A1, M936A2	.5	.2	1.0	5.4	9.8	.9	3.1	.5	4.9	1.5

NOTE

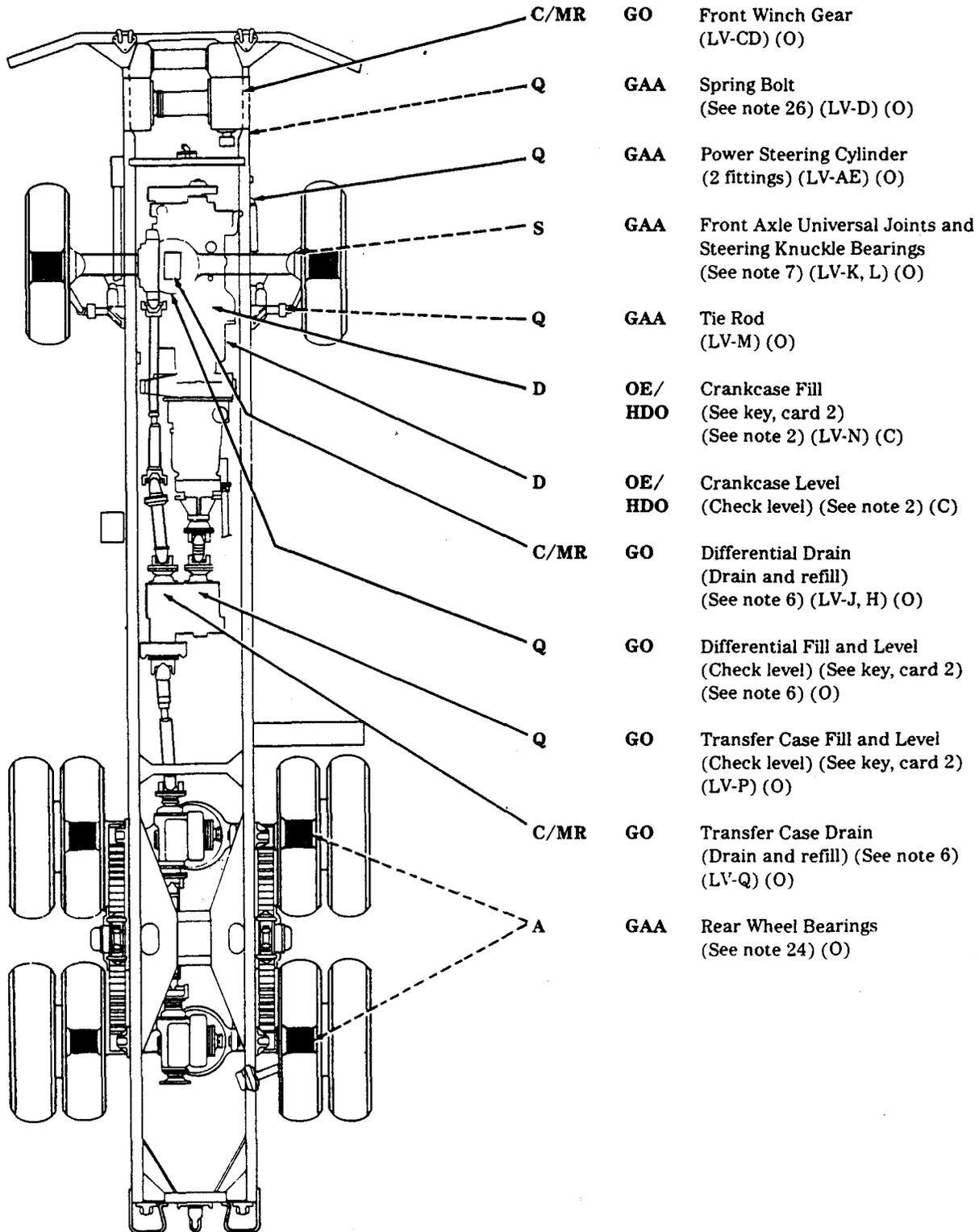
The man-hours shown above have been established on an individual vehicle basis and therefore are not applicable at maintenance facilities where production line methods are used.

TA 350537

NOTE

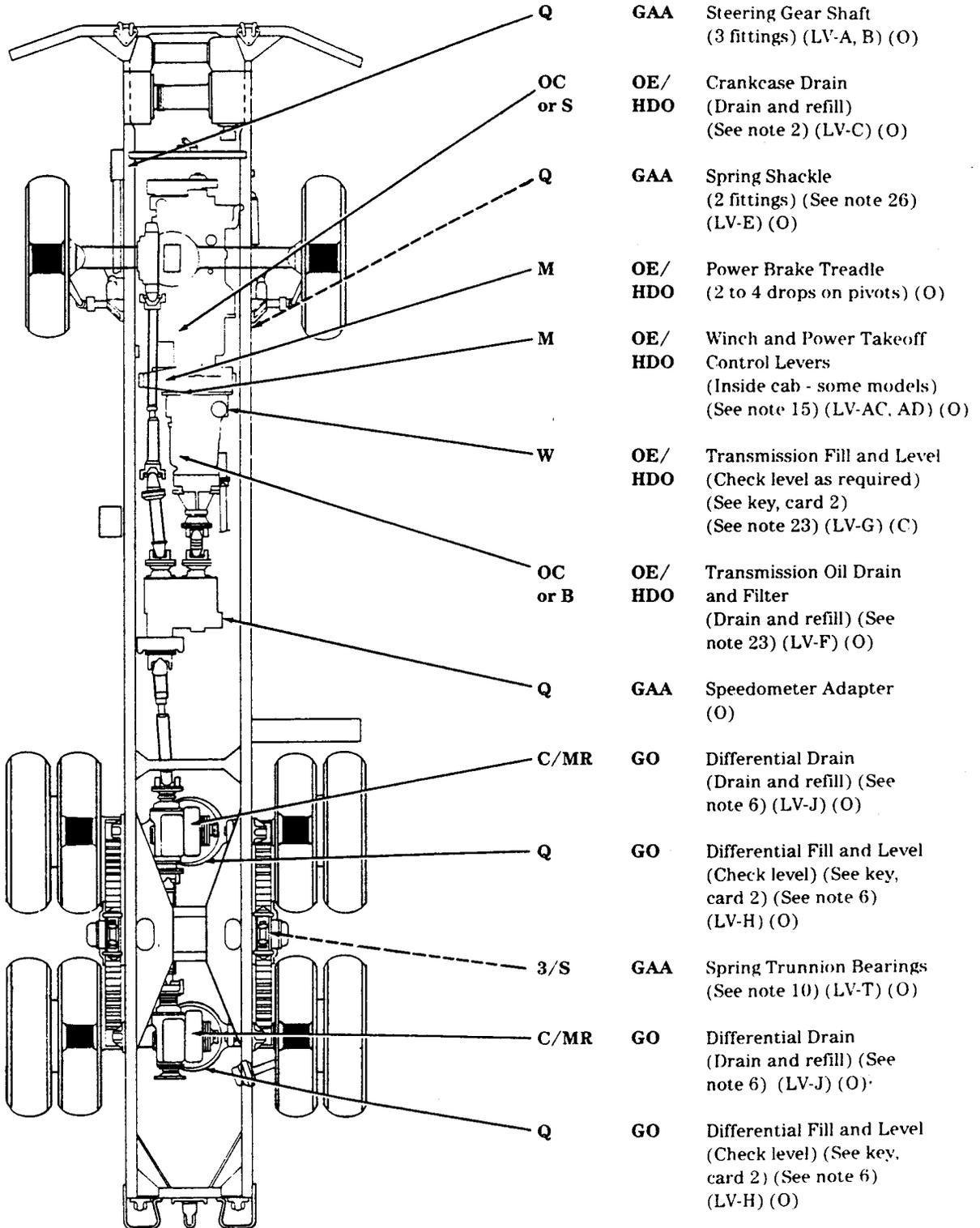
Lubrication entries followed by (LV) have localized views showing the appropriate lubrication points. Localized views begin on card 17.

INTERVAL • LUBRICANT

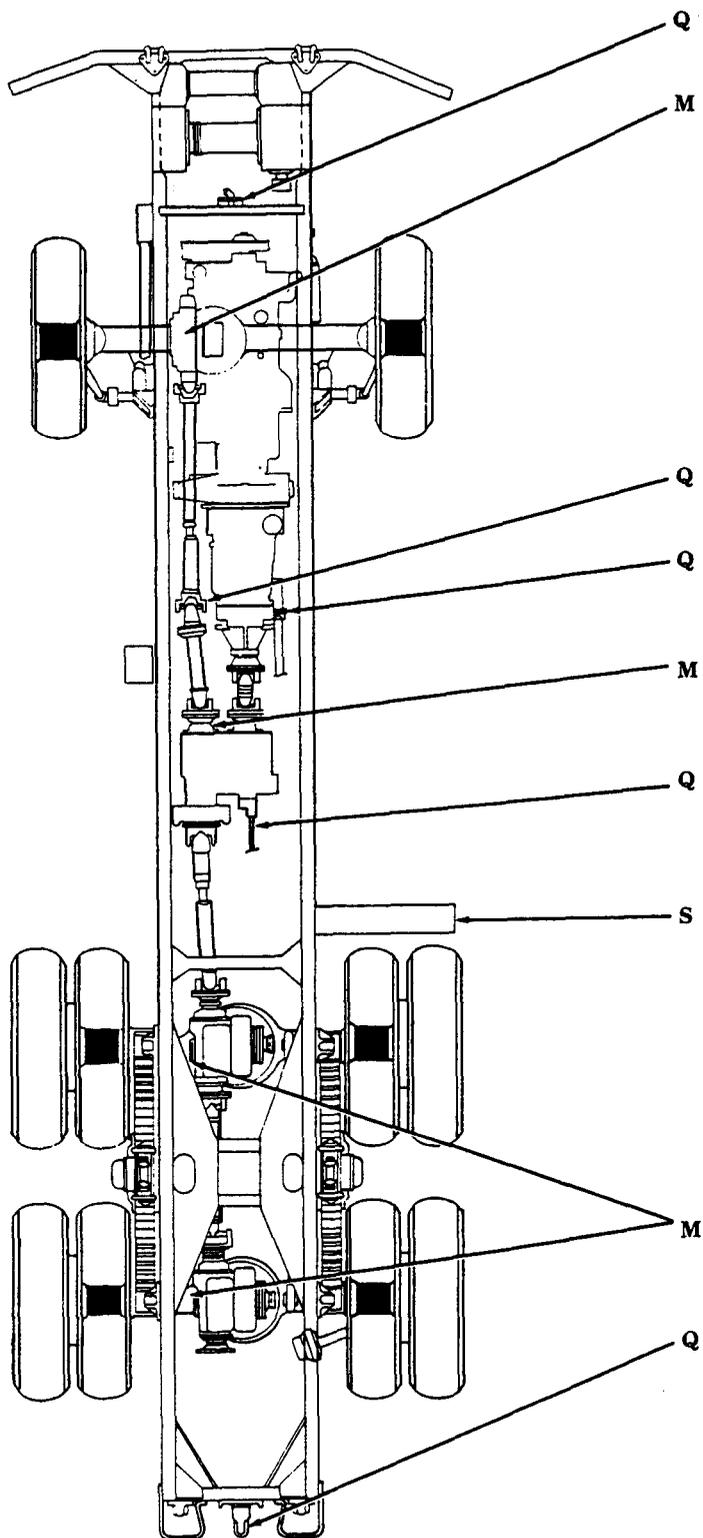


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- Q** **GAA** Hood Trunnion
(1 fitting) (O)

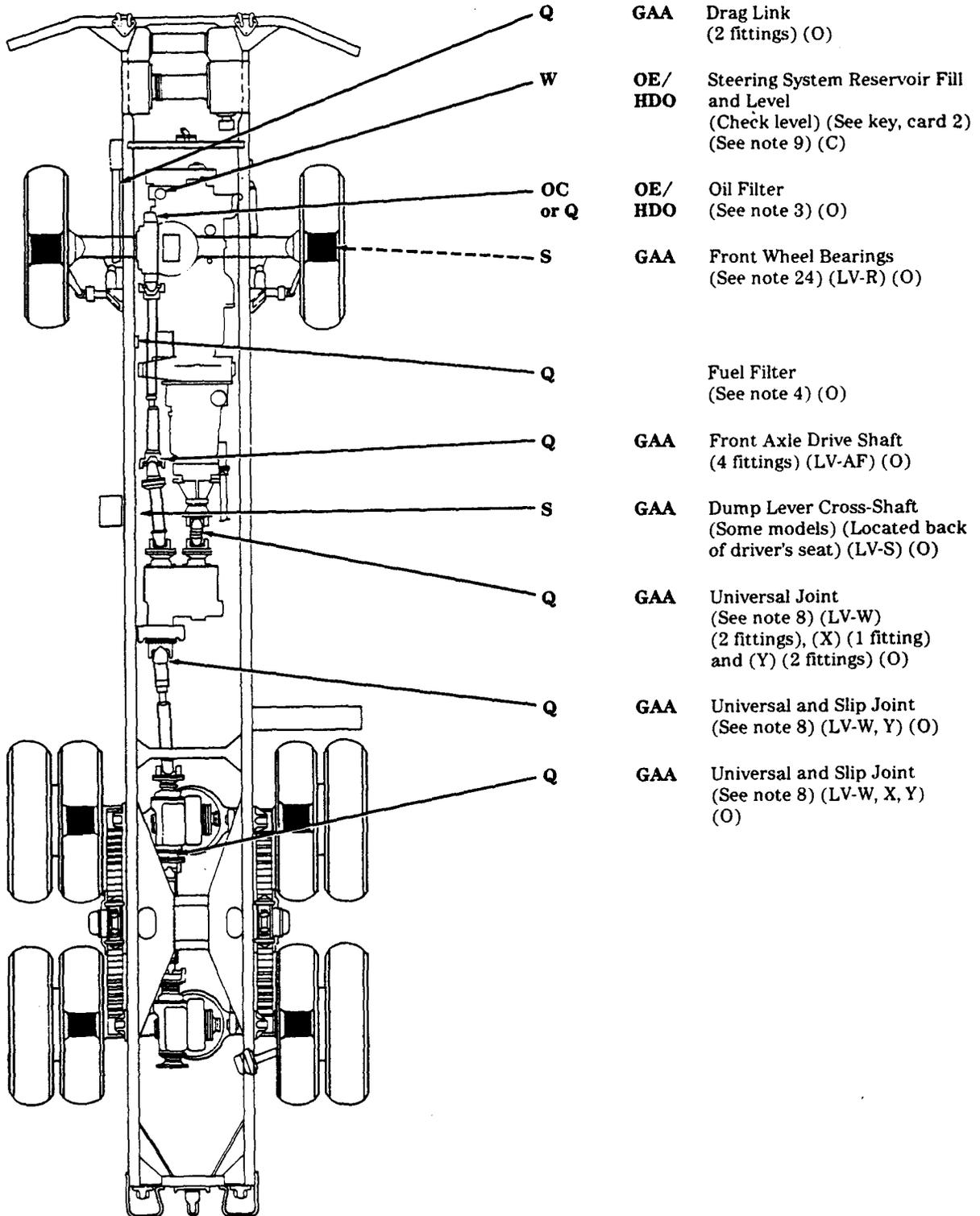
- M** **OE/
HDO** Axle Breather
(All axles) (Keep breather
and area clean) (LV-AB) (O)

- Q** **GAA** Universal and Slip Joint
(See note 8) (LV-X, Y) (O)
- Q** **GAA** Power Takeoff Universal Joint
(Some models) (See note 8)
(LV-U, V) (O)
- M** **OE/
HDO** Transfer Case Shift
Linkage Pins
(See note 15) (LV-Z) (O)
- Q** **GAA** Power Takeoff Universal
and Slip Joint
(Some models) (See note 8)
(LV-X, Y) (O)
- S** **OE/
HDO** Winch Reservoir
(Fill to top notch on
dipstick) (See key, card 2) (C)

- M** **OE/
HDO** Axle Breather
(All axles) (Keep breather
and area clean) (LV-AB) (O)

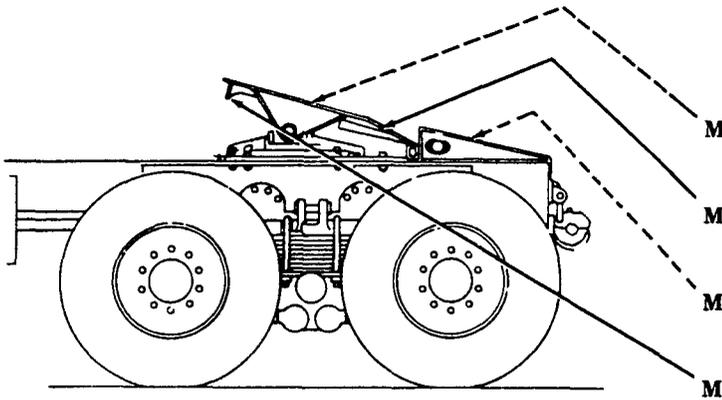
- Q** **GAA** Towing Pintle
(3 fittings) (LV-AA) (O)

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INTERVAL • LUBRICANT



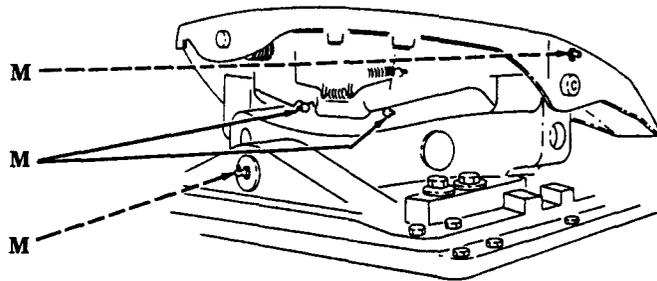
FIFTH WHEEL —
M931, M931A1, M931A2, M932, M932A1, M932A2
(LEFT SIDE VIEW)

- M GAA Base Plate (Grease Well) (LV-AK) (C)
- M GAA Base Plate (Clean and coat) (C)
- M GAA Approach Plate (Clean and coat) (C)
- M OE/HDO Lock Plunger Shaft (LV-AL)(O)

LUBRICANT • INTERVAL

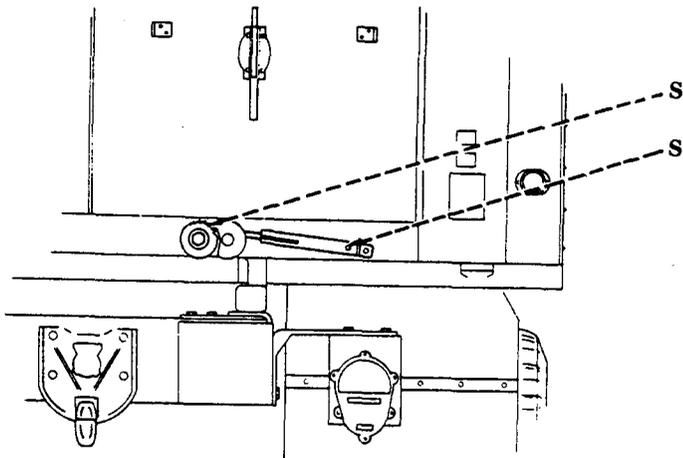
- Bushing Pin (2 fittings) (LV-AH) (O)
- Coupler Jaw Pin (LV-AJ) (O)
- Walking Beam (2 fittings) (LV-AG) (O)

- GAA M
- GAA M
- GAA M



FIFTH WHEEL —
M931, M931A1, M931A2, M932, M932A1, M932A2

INTERVAL • LUBRICANT

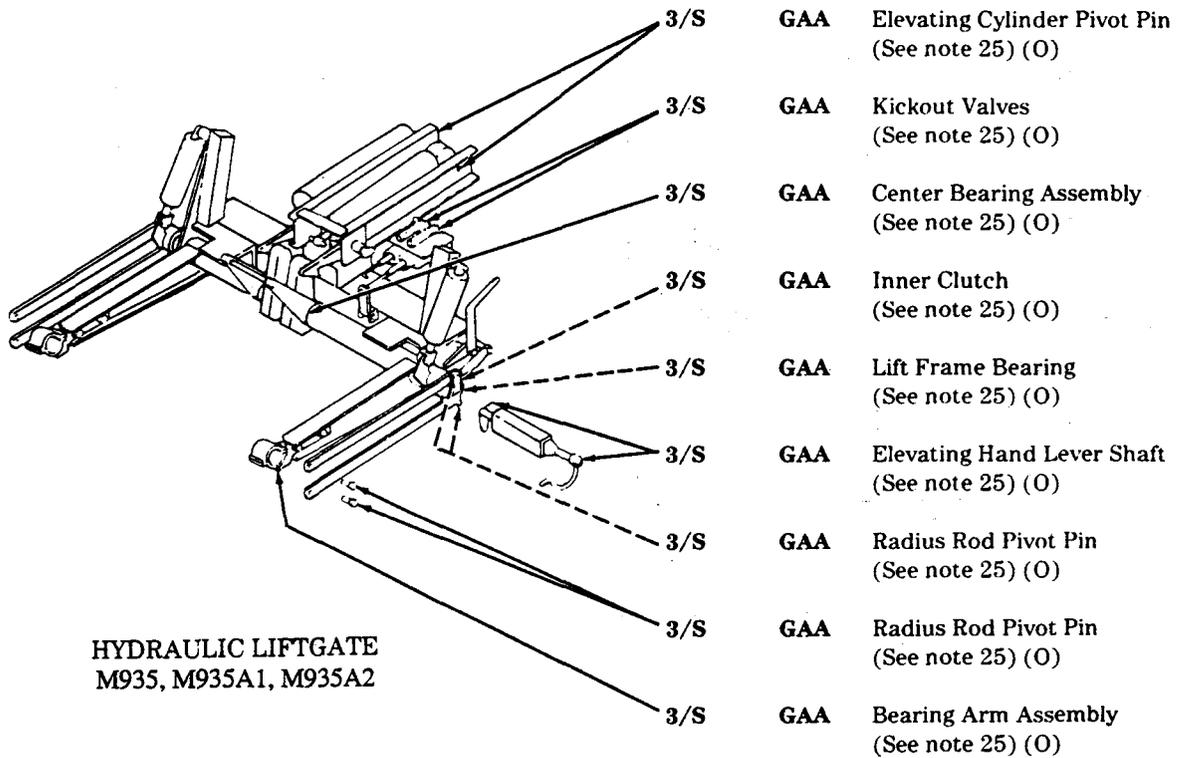


VAN BODY —
M934, M943A1, M934A2, M935, M935A1, M935A2
(REAR VIEW)

- S GAA Ratchet (O)
- S GAA Pawl Plunger (O)

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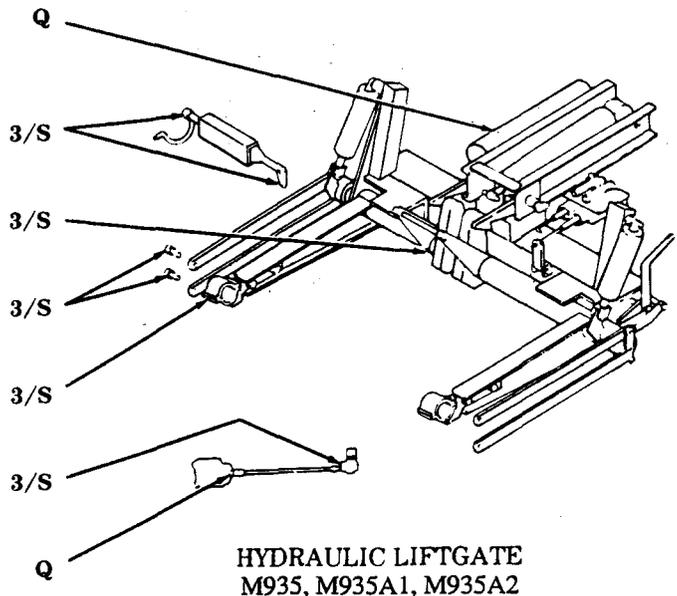
INTERVAL • LUBRICANT



**HYDRAULIC LIFTGATE
M935, M935A1, M935A2**

LUBRICANT • INTERVAL

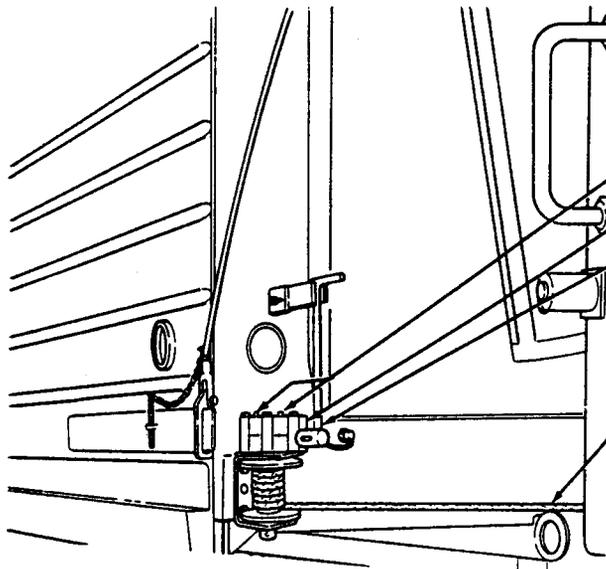
Hydraulic Oil Reservoir Fill and Level (See key, card 2) (See note 20) (O)	OE/ HDO
Elevating Hand Lever Shaft. (See note 25) (O)	GAA
Center Bearing Assembly (See note 25) (O)	GAA
Radius Rod Pivot Pin (See note 25) (O)	GAA
Bearing Arm Assembly (See note 25) (O)	GAA
Hydraulic Pump Universal Joint (See note 25) (O)	GAA
Power Takeoff Universal Joint (See note 25) (O)	GAA



**HYDRAULIC LIFTGATE
M935, M935A1, M935A2**

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**VAN BODY - M934A1, M935A1, M935A2
(LEFT SIDE VIEW)**

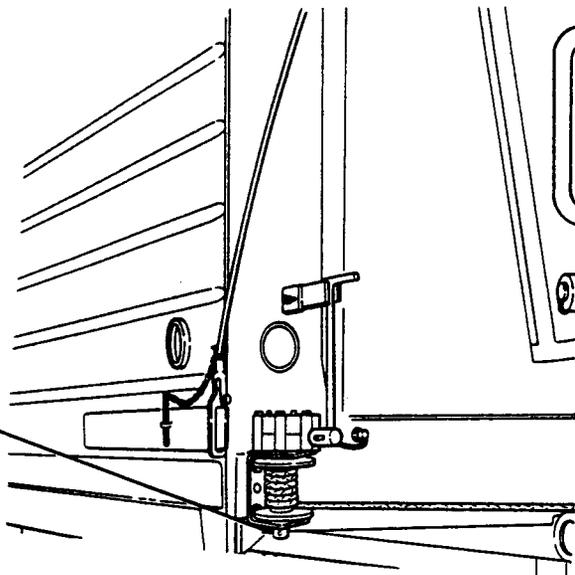
- GW** Worm Gear Fill (O)
- GW** Worm Fill (O)
- GW** Winch Handle Shaft Fill (O)
- GW** Wire Rope (C)

LUBRICANT • INTERVAL

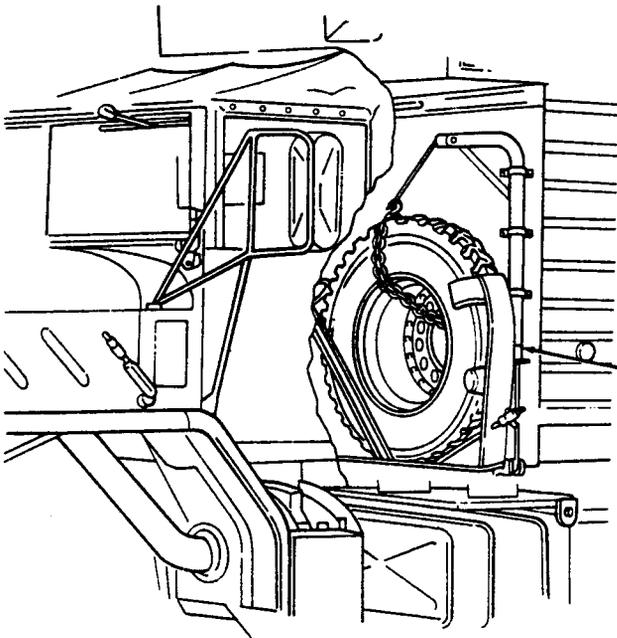
Winch Barrel Shaft
Fill (O)

GW

A



**VAN BODY - M934A1, M935A1, M935A2
(LEFT SIDE VIEW)**



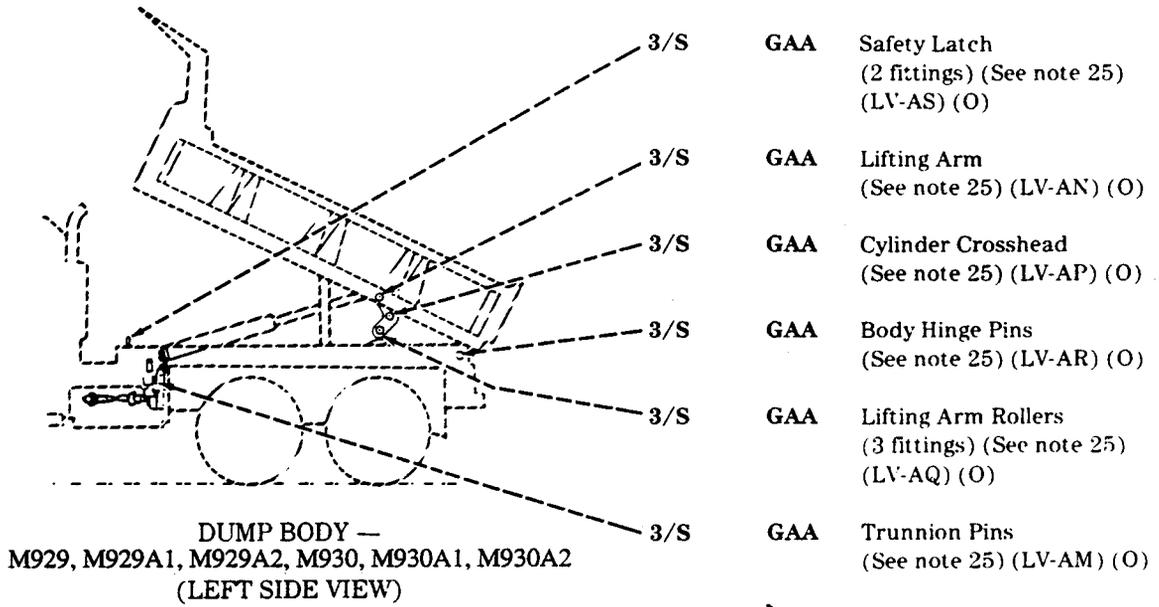
**VAN BODY - M934A1, M935A1, M935A2
(RIGHT SIDE VIEW)**

INTERVAL • LUBRICANT

- GW** Swing Davit Base (See note 27) (O)

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INTERVAL • LUBRICANT



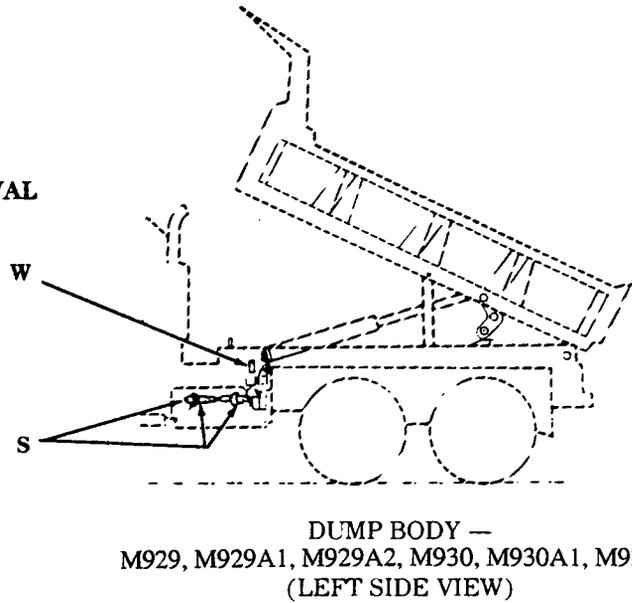
LUBRICANT • INTERVAL

Hydraulic Oil Reservoir Fill
and Level
(Check level) (See key,
card 2) (See note 14)
(LV-AT) (O)

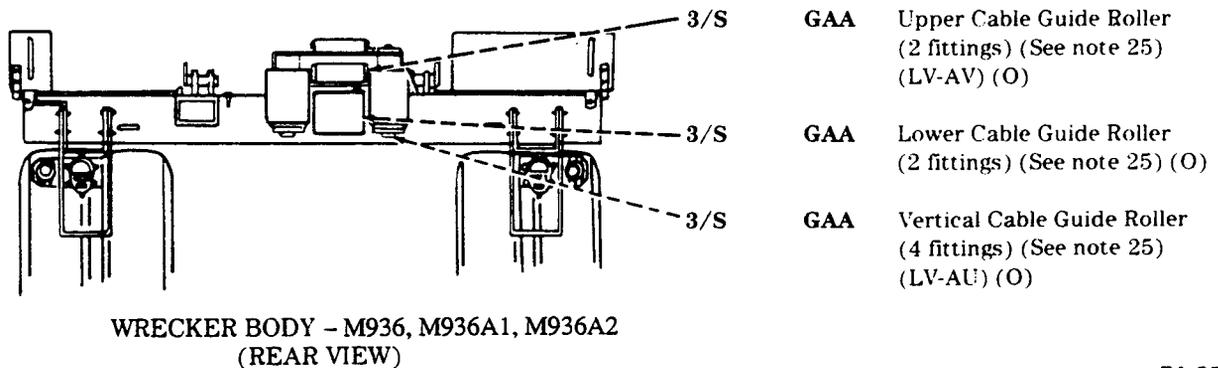
Universal and Slip Joints
(See note 8) (LV-W, Y) (O)

OE/
HDO

GAA

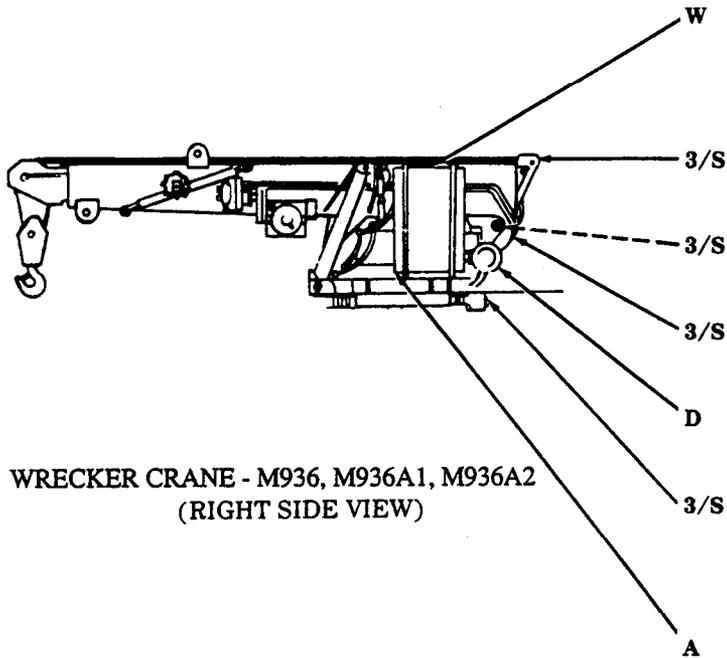


INTERVAL • LUBRICANT



TA 350545

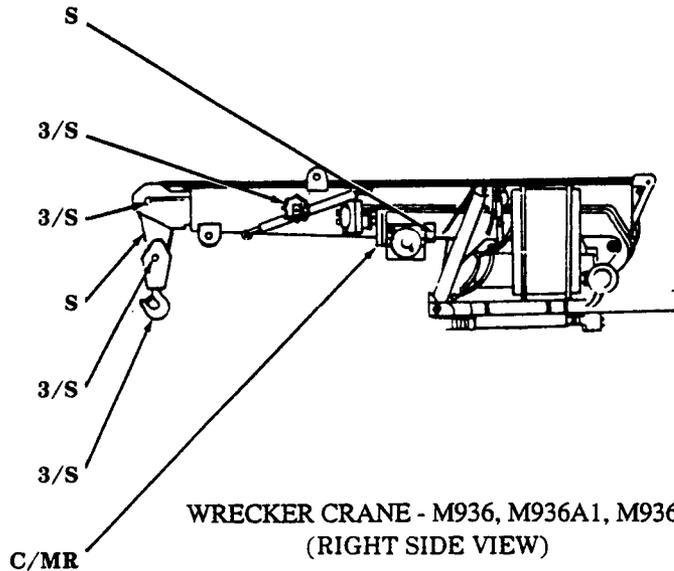
INTERVAL • LUBRICANT



- OE/
HDO** Hydraulic Oil Reservoir
Fill and Level
(Check level) (See key, card 2)
(See note 13) (LV-AW) (O)
- GAA** Hoist Cable Sheave
(See note 12) (O)
- GAA** Boom Hinge Pin
(See note 25) (LV-AX) (O)
- GAA** Hoist Cable Sheave
(See note 12) (O)
- OE/
HDO** Hydraulic System Filter
(See note 19) (O)
- GO** Swinger Gearcase Fill
and Level
(Check level) (See key, card 2)
(See note 6) (LV-BA, BB) (O)
- OE/
HDO** Hydraulic Oil Reservoir Drain
(Drain and refill) (See
note 13) (LV-AZ) (O)

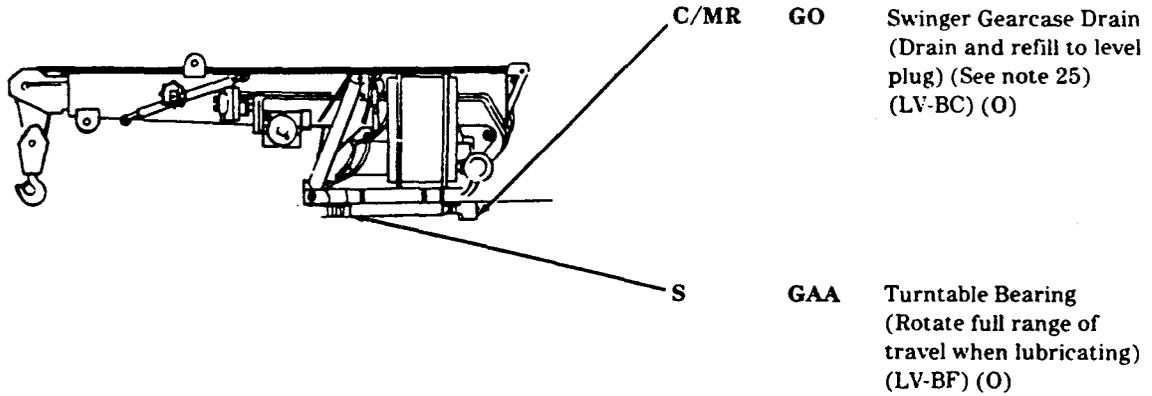
LUBRICANT • INTERVAL

- GO** Hoist Gearcase Fill
(See key, card 2)
(See note 11) (O)
- GAA** Boom Cylinder Pin
(See note 25) (O)
- GAA** Boom Sheave Pin
(See note 25) (O)
- CW** Hoist Cable
(See note 12) (LV-BD) (O)
- GAA** Block Sheave Pin
(See note 25) (LV-BE) (O)
- GAA** Block Hook
(See note 25) (O)
- GO** Hoist Gearcase Fill and Level
(Check level) (See key, card 2)
(See note 11) (LV-BH) (O)



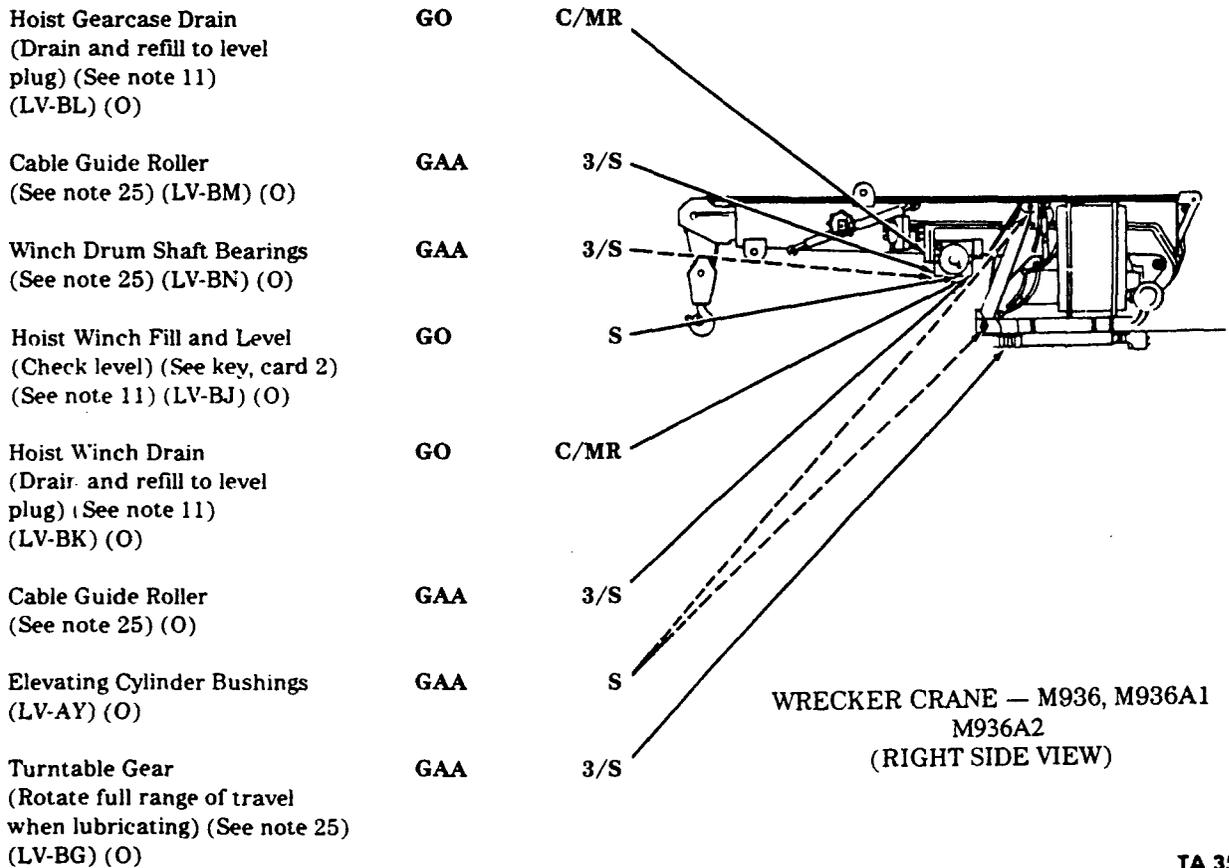
TA 350546

INTERVAL • LUBRICANT



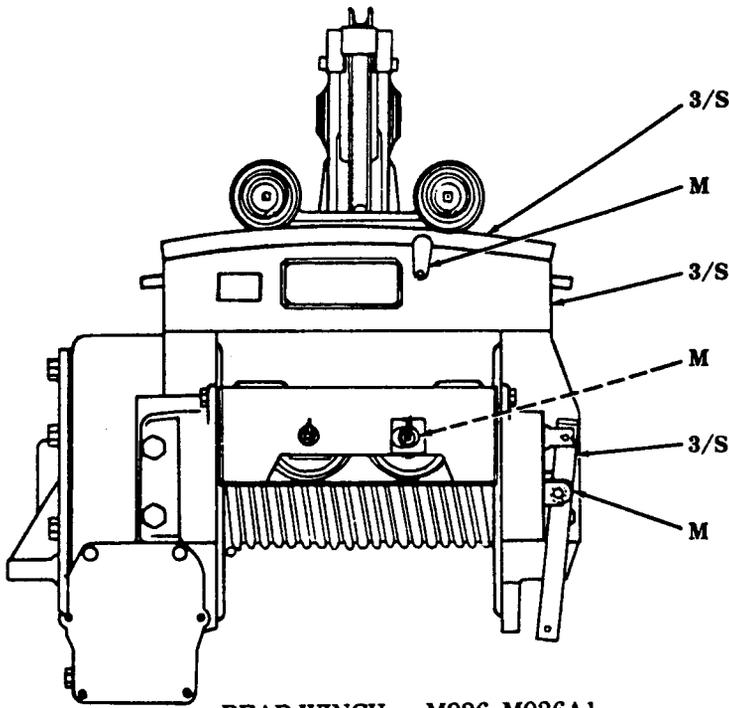
**WRECKER CRANE — M936, M936A1,
M936A2
(RIGHT SIDE VIEW)**

LUBRICANT • INTERVAL



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INTERVAL • LUBRICANT



REAR WINCH — M936, M936A1
M936A2
(REAR VIEW)

- GAA Level Wind Frame
(See note 25) (O)
- OE/
HDO Level Wind Trolley Lock
(See note 15) (O)
- GAA Sheave Frame Pin Bearing
(See note 25) (O)
- GAA Tensioner Sheave Pins
(LV-BP) (O)
- GAA End Frame Bearing
(See note 25) (LV-BS) (O)
- OE/
HDO Tensioner Rocker Lever Pins
(See note 15) (O)

LUBRICANT • INTERVAL

Level Wind Sheave Bearing
(LV-BR) (O)

GAA

M

Level Wind Trolley Wheels
(LV-BQ) (O)

GAA

M

Gearcase Fill
(See key, card 2)
(See note 6) (O)

GO

C/MR

Winch Cable
(See note 12) (C)

CW

OC

Gearcase Level
(Check level) (See note 6)
(LV-BT) (O)

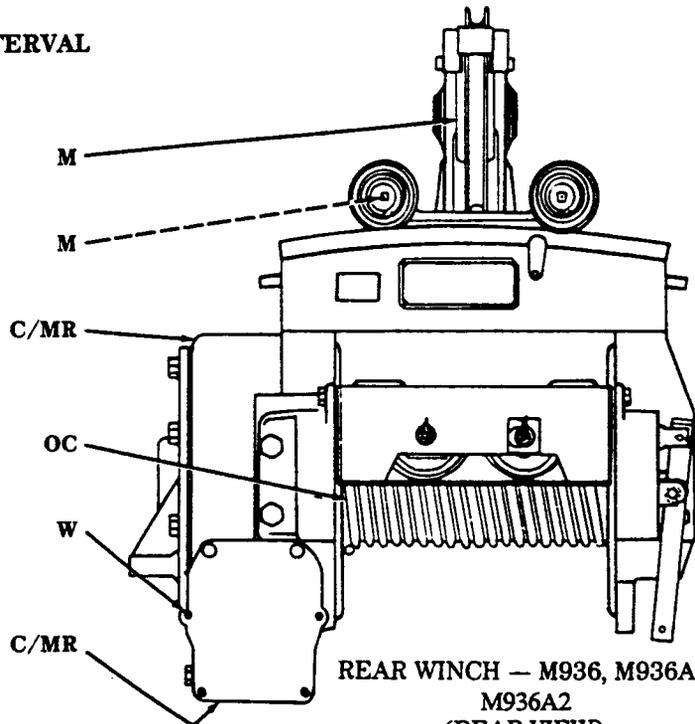
GO

W

Gearcase Drain
(Drain and refill to level
plug) (See note 6)
(LV-BU) (O)

GO

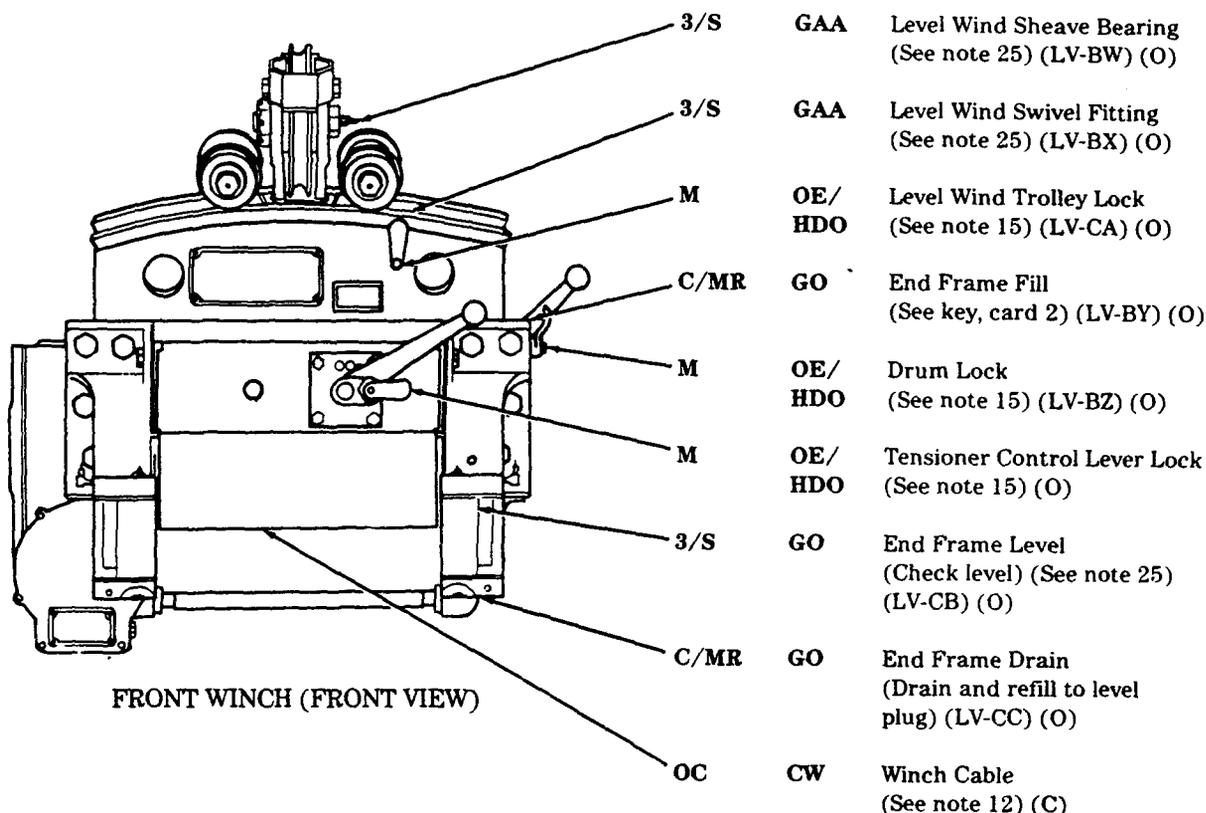
C/MR



REAR WINCH — M936, M936A1
M936A2
(REAR VIEW)

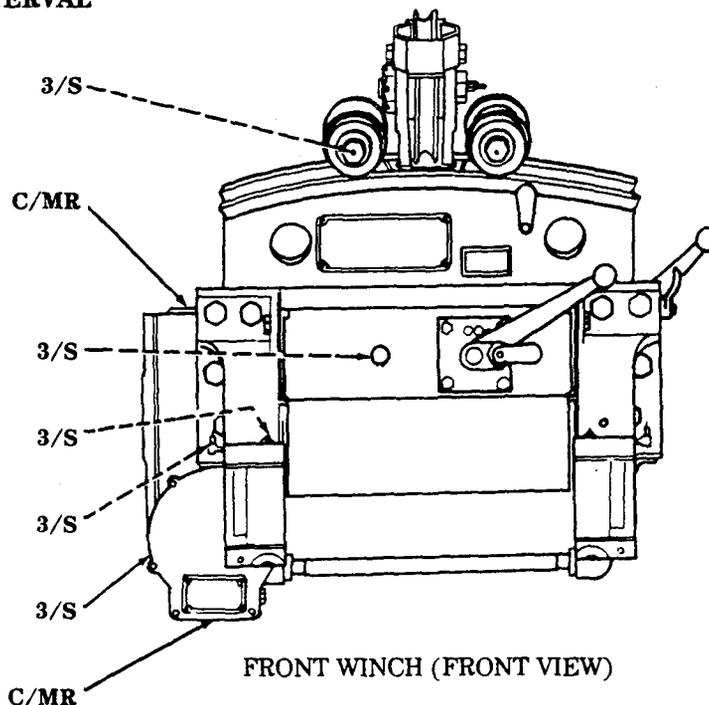
TA 350548

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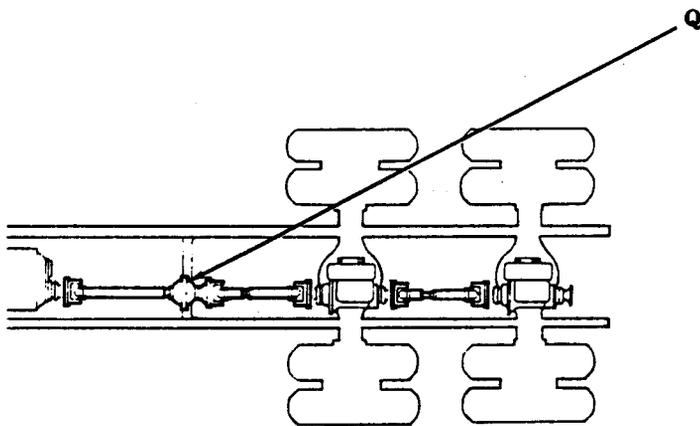
LUBRICANT • INTERVAL

- Level Wind Trolley Wheels
(2 fittings) (See note 25)
(LV-BV) (O)
- Gearcase Fill
(See key, card 2)
(See note 6) (O)
- Tensioner Sheave Pins
(2 fittings) (See note 25) (O)
- Vertical Cable Rollers
(See note 25) (O)
- Horizontal Cable Roller
(See note 25) (O)
- Gearcase Level
(Check level) (LV-CD) (O)
- Gearcase Drain
(Drain and refill to level
plug) (See note 6) (LV-CE) (O)



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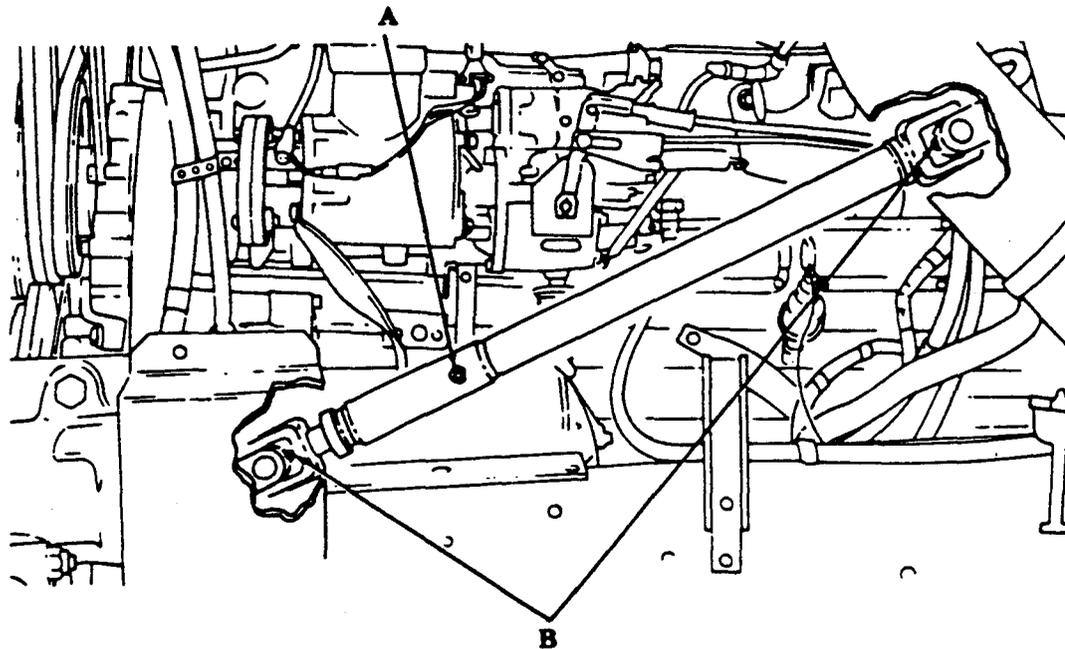
INTERVAL • LUBRICANT



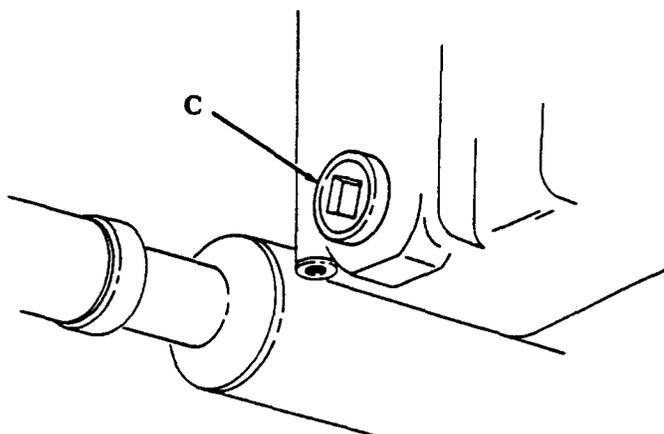
GAA Propeller Shaft Center Bearing
(See note 8) (O)

PROPELLER SHAFT CENTER BEARING —
M927, M927A1, M927A2, M928, M928A1, M928A2
M934, M934A1, M934A2, M935, M935A1, M935A2
(TOP VIEW)

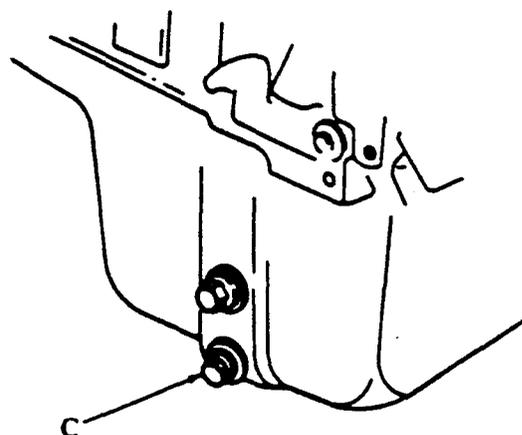
TA 350550



STEERING GEAR SHAFT



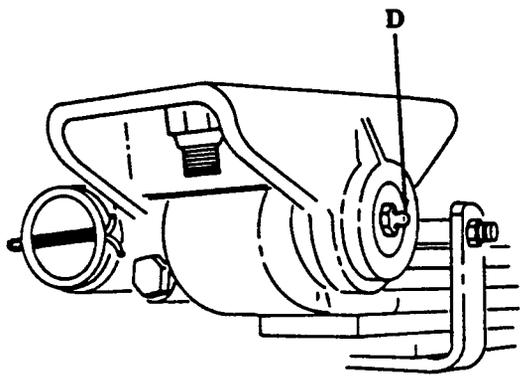
CRANKCASE DRAIN
M939 AND M939A1



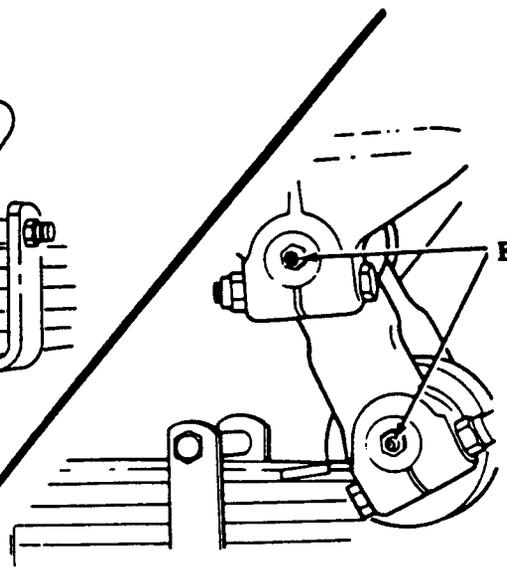
CRANKCASE DRAIN
M939A2

LOCALIZED LUBRICATION POINTS (A THROUGH C)

TA 350551

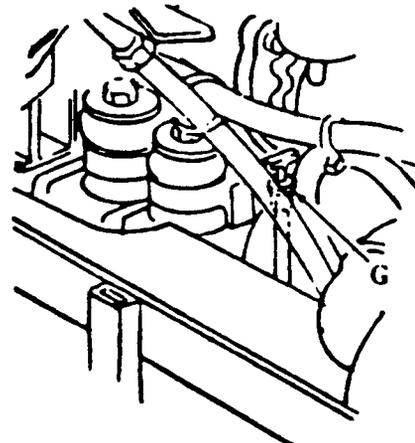


SPRING
BOLT

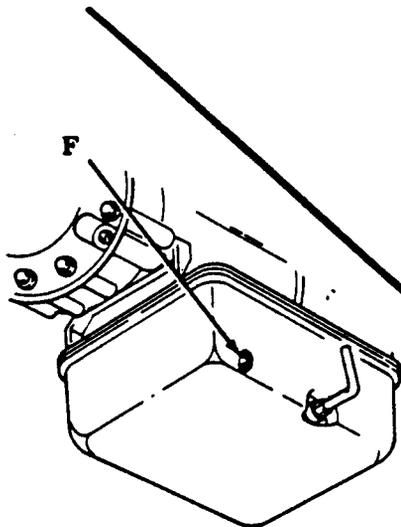


SPRING
SHACKLE

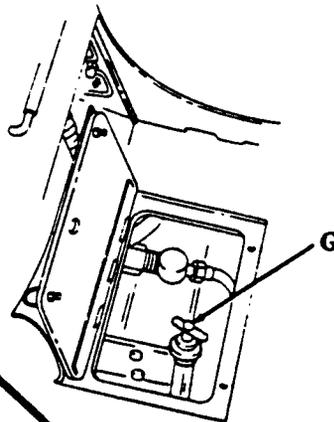
TRANSMISSION
FILL AND LEVEL



M939A2



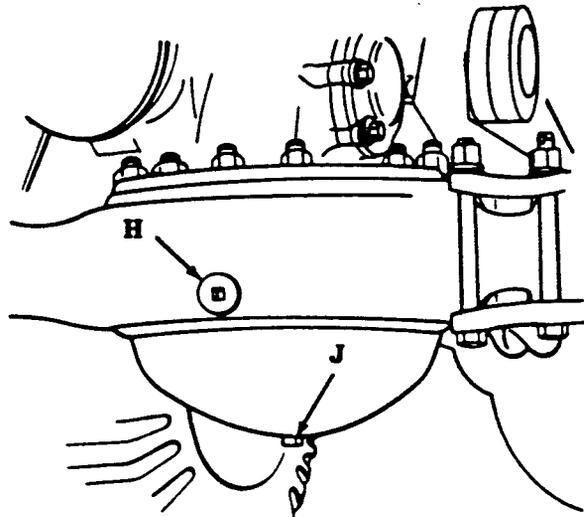
TRANSMISSION
OIL DRAIN



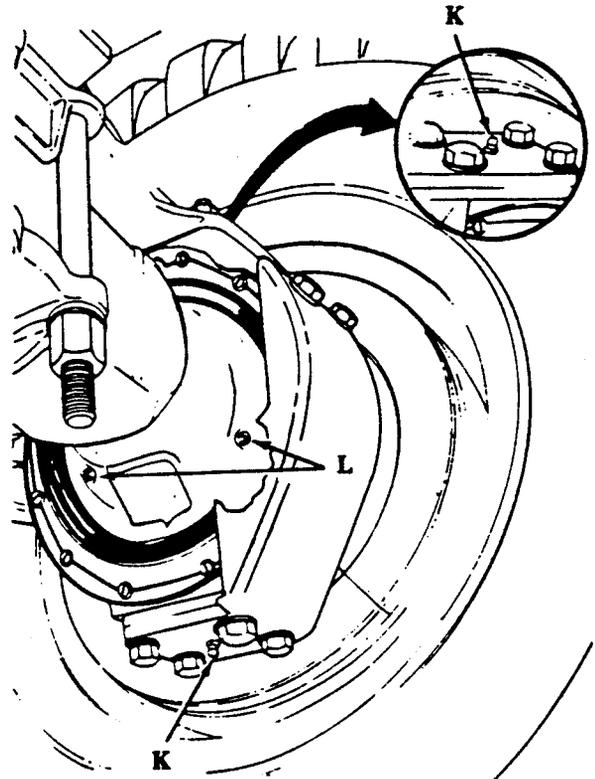
M939 AND M939A1

LOCALIZED LUBRICATION POINTS (D THROUGH G)

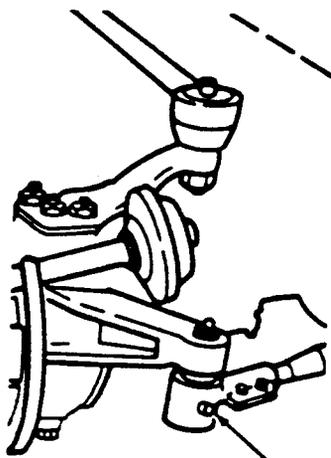
TA 350552



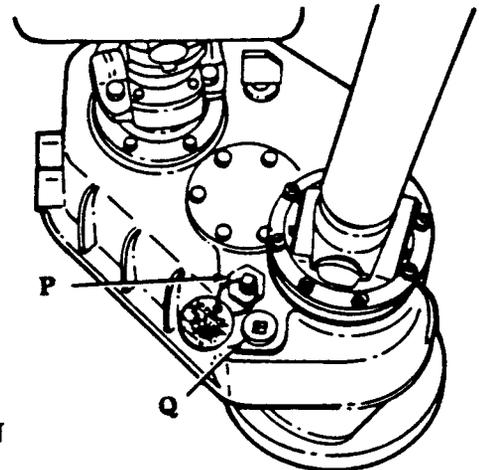
DIFFERENTIAL



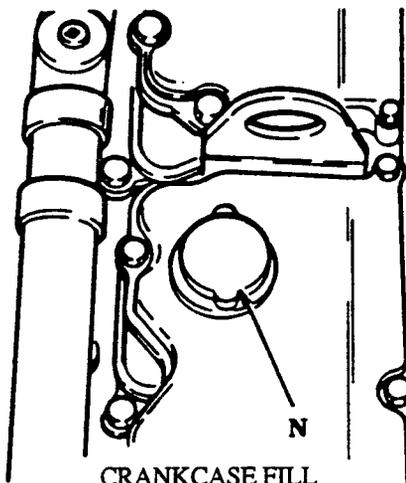
FRONT AXLE



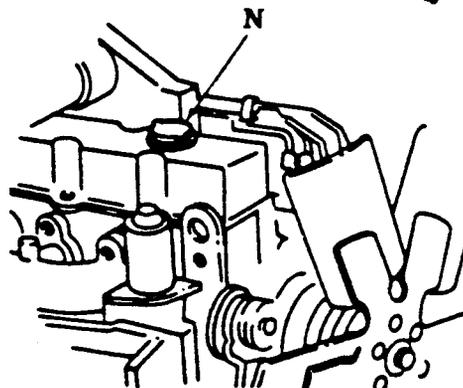
TIE ROD



TRANSFER CASE



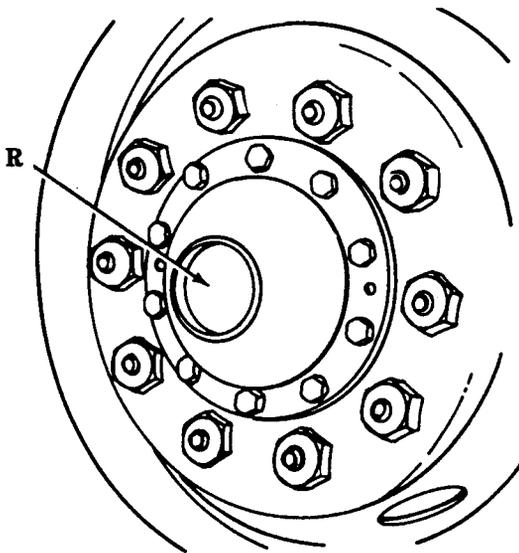
CRANKCASE FILL
M939, M939A1



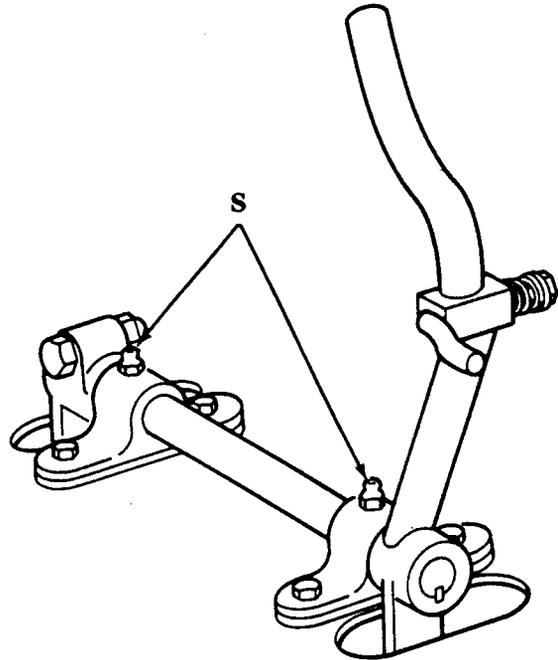
CRANKCASE FILL
M939A2

LOCALIZED LUBRICATION POINTS (H THROUGH Q)

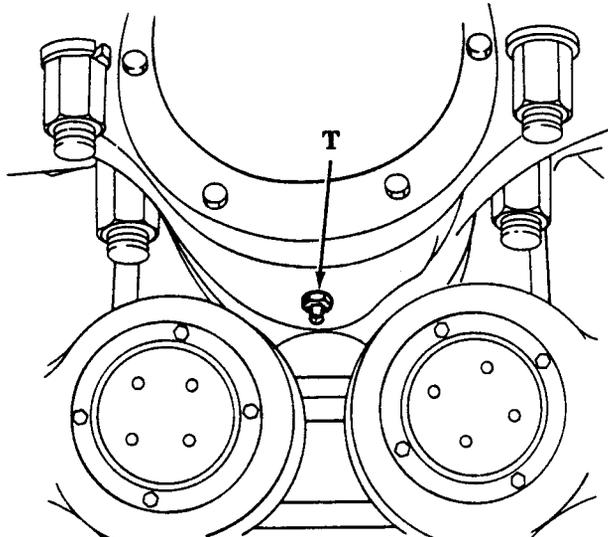
TA 350553



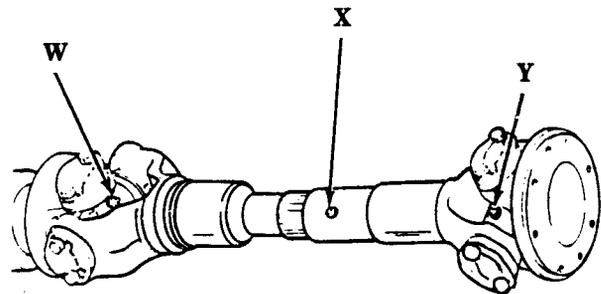
FRONT WHEEL BEARINGS



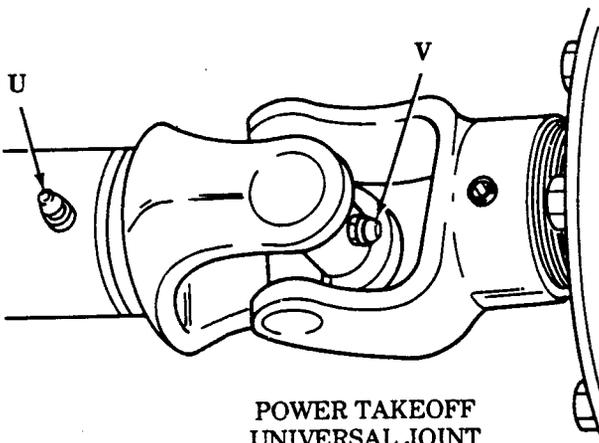
DUMP LEVER
CROSS-SHAFT



SPRING TRUNNION BEARINGS



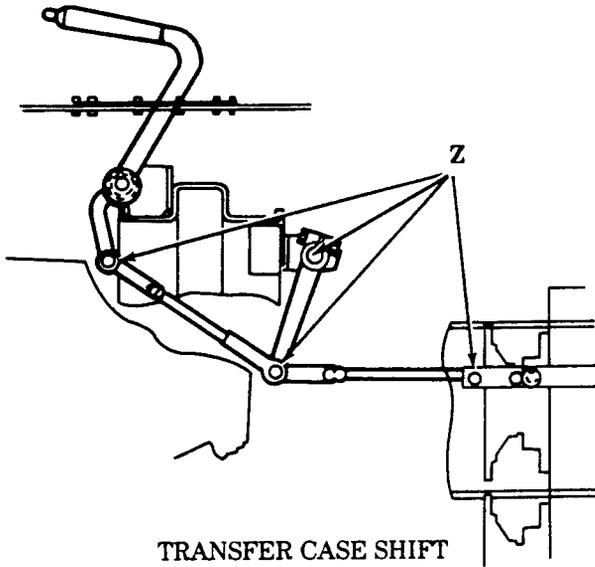
UNIVERSAL AND
SLIP JOINT



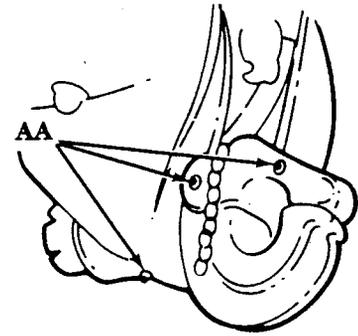
POWER TAKEOFF
UNIVERSAL JOINT

LOCALIZED LUBRICATION POINTS (R THROUGH Y)

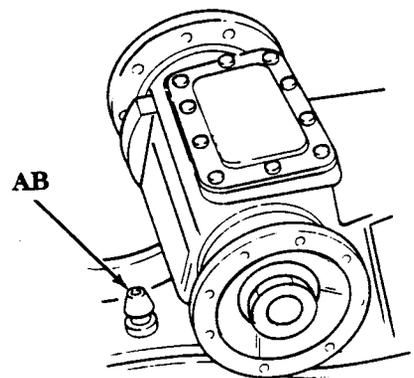
TA 350554



TRANSFER CASE SHIFT
LINKAGE PINS



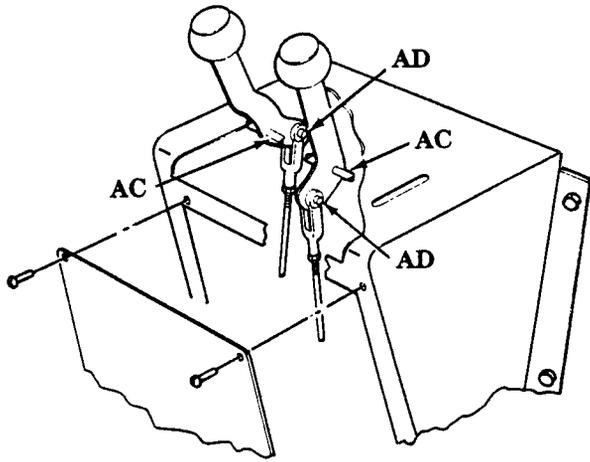
TOWING PINTLE



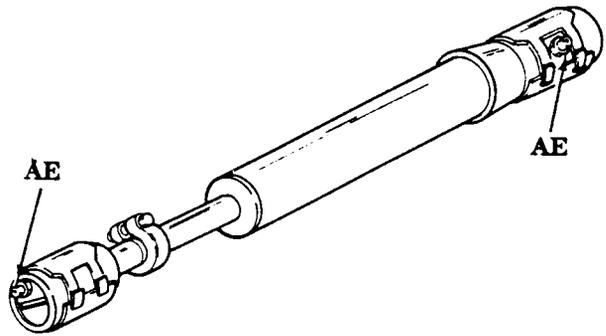
AXLE BREATHER

LOCALIZED LUBRICATION POINTS (Z THROUGH AB)

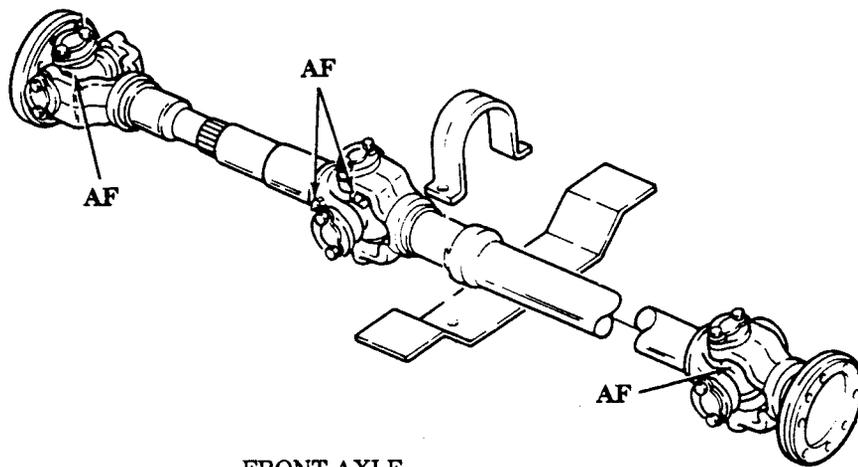
TA 350555



WINCH AND POWER
TAKEOFF CONTROL LEVERS



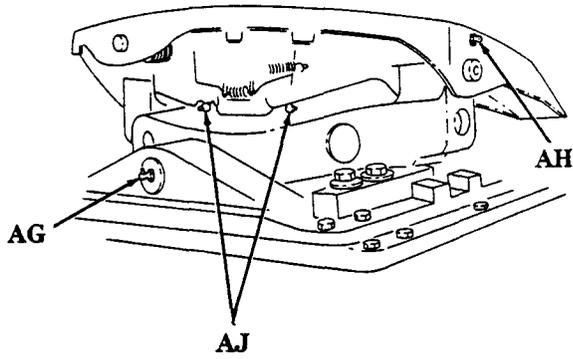
POWER STEERING
CYLINDER



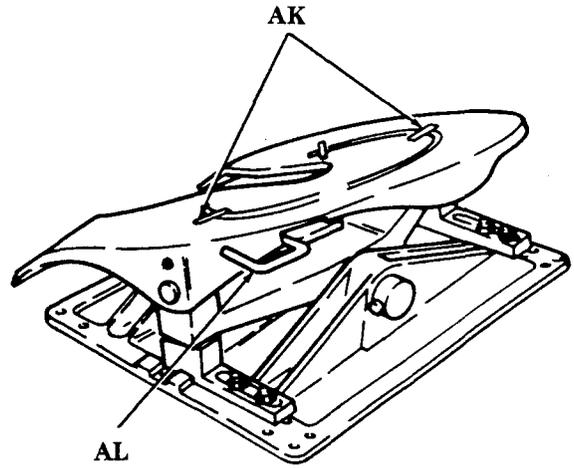
FRONT AXLE
DRIVE SHAFT

LOCALIZED LUBRICATION POINTS (AC THROUGH AF)

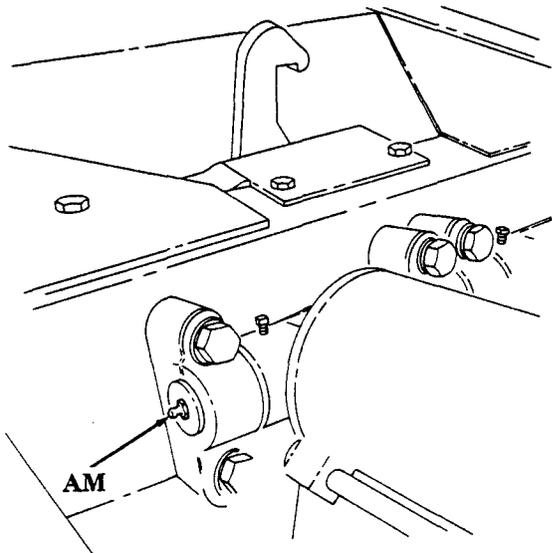
TA 350556



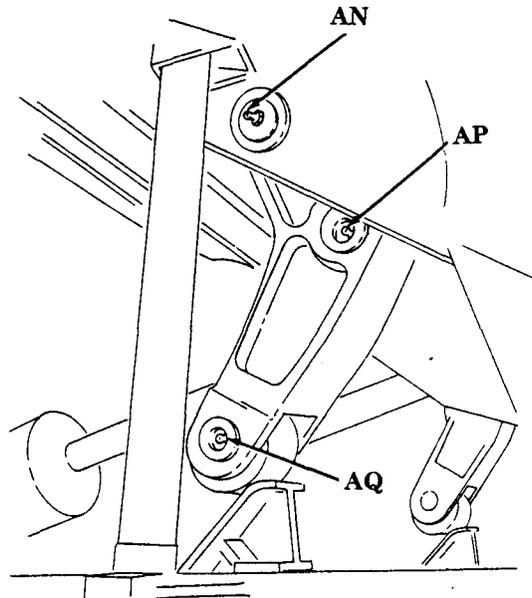
FIFTH WHEEL



FIFTH WHEEL



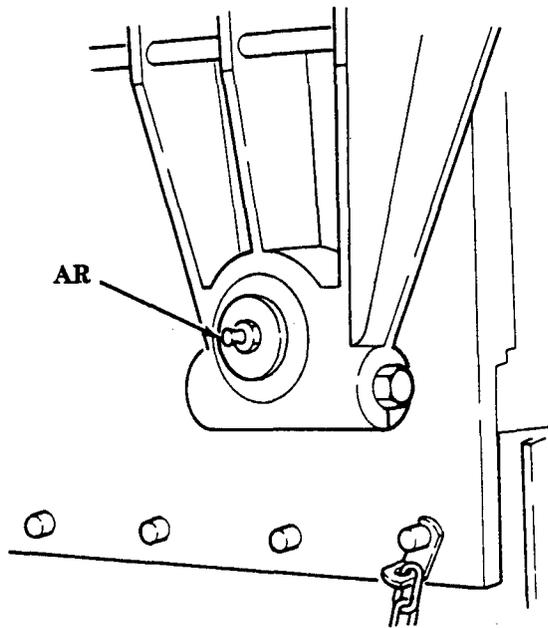
TRUNNION PIN



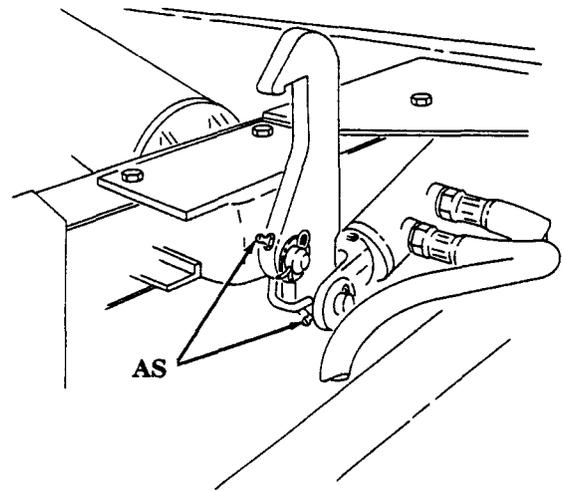
DUMP LIFTING ARM
CYLINDER CROSSHEAD
AND LIFTING ARM ROLLERS

LOCALIZED LUBRICATION POINTS (AG THROUGH AQ)

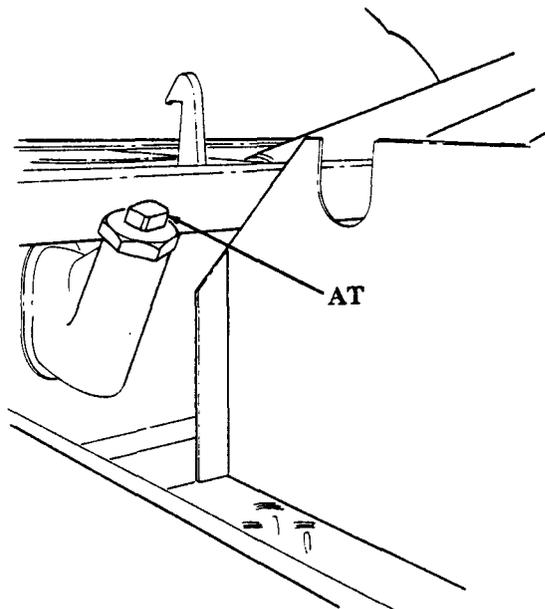
TA 350557



DUMP BODY HINGE PINS



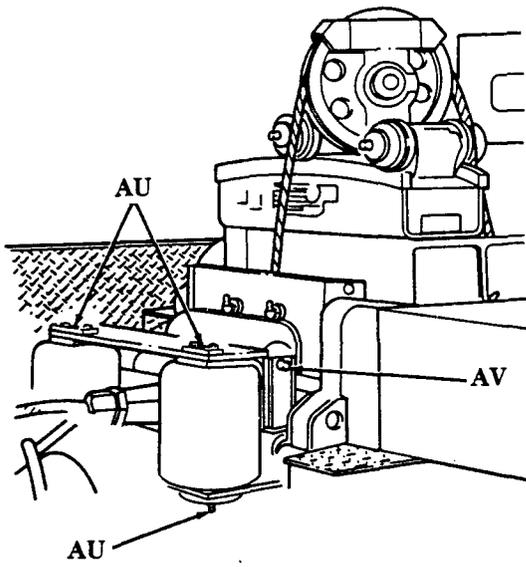
SAFETY LATCH



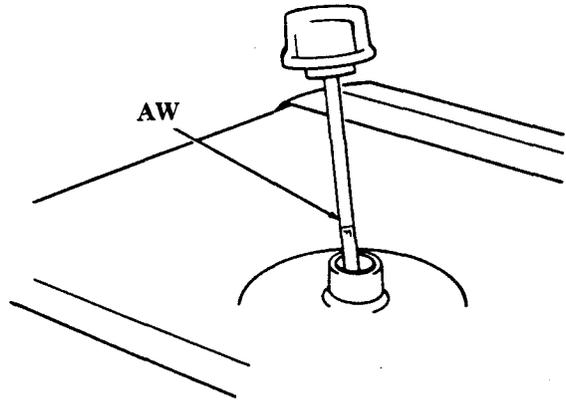
HYDRAULIC OIL RESERVOIR
FILL AND LEVEL

LOCALIZED LUBRICATION POINTS (AR THROUGH AT)

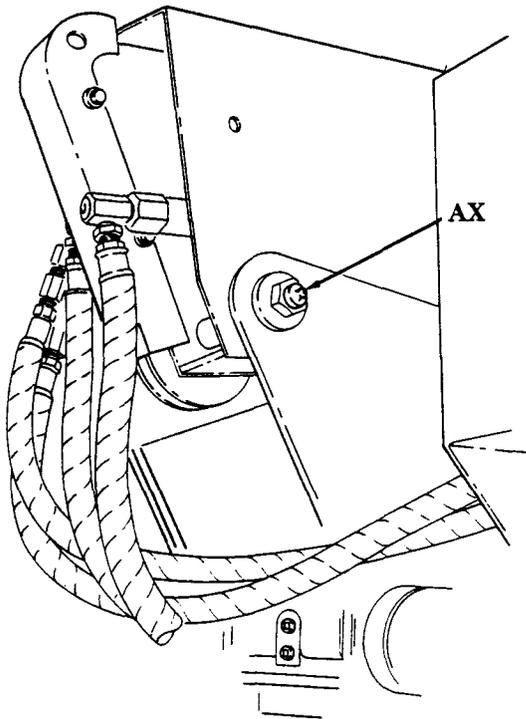
TA 350558



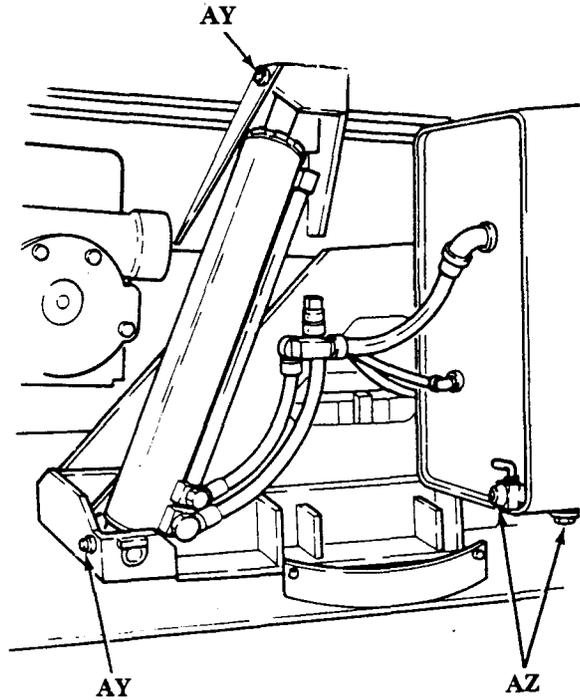
WRECKER BODY — M936, M936A1



WRECKER HYDRAULIC OIL RESERVOIR



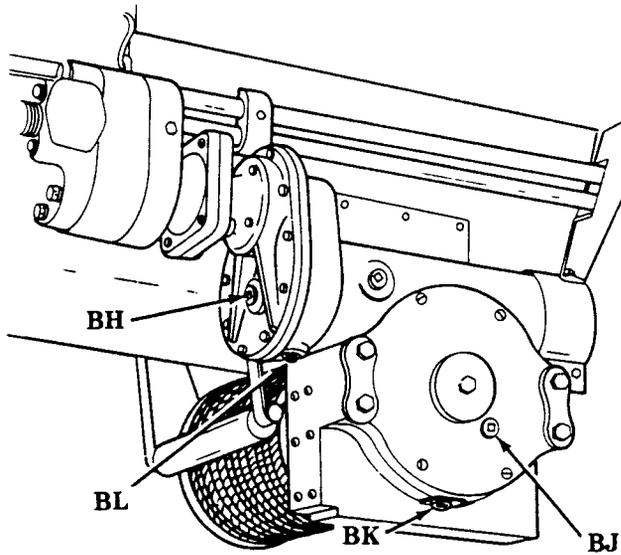
WRECKER BOOM HINGE PIN



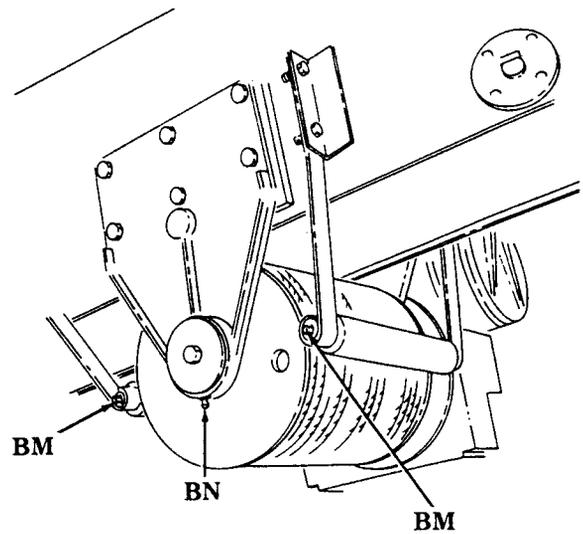
WRECKER ELEVATING CYLINDER

LOCALIZED LUBRICATION POINTS (AU THROUGH AZ)

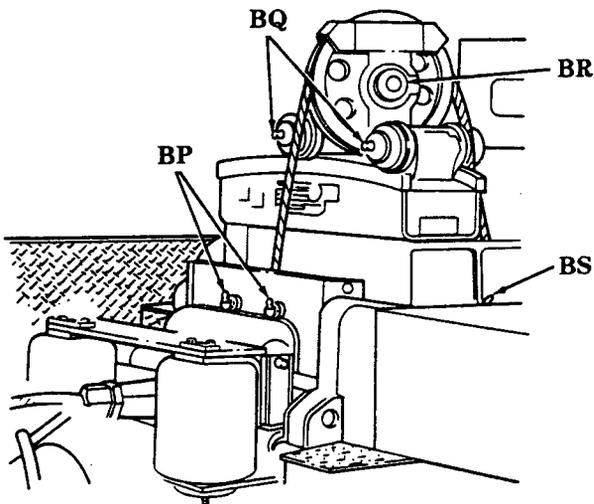
TA 350559



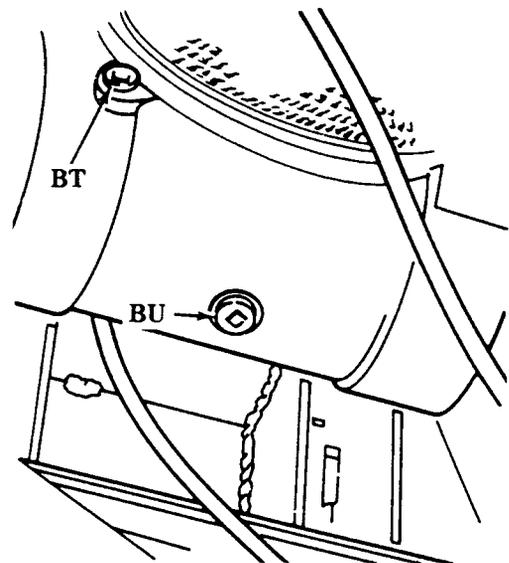
WRECKER HOIST GEARCASE
(RIGHT SIDE)



WRECKER HOIST GEARCASE
(LEFT SIDE)



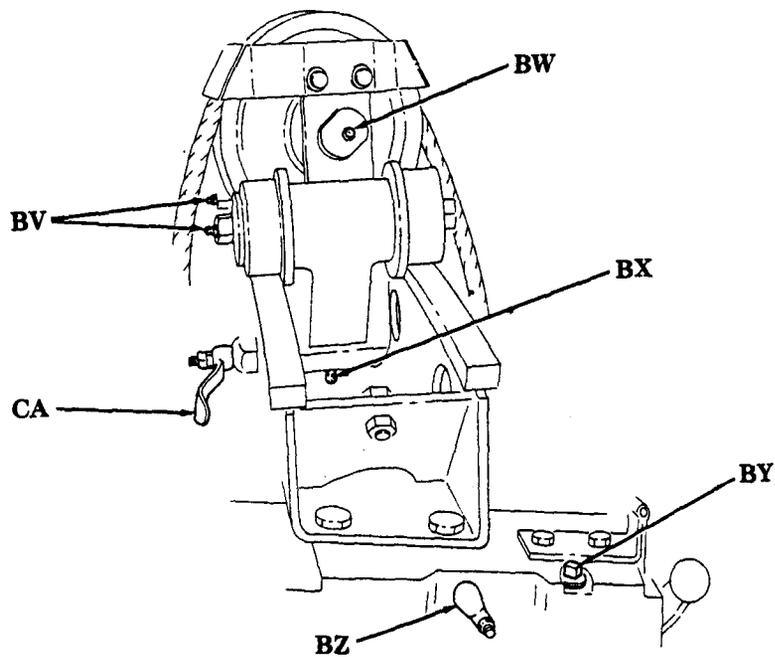
REAR WINCH — M936, M936A1



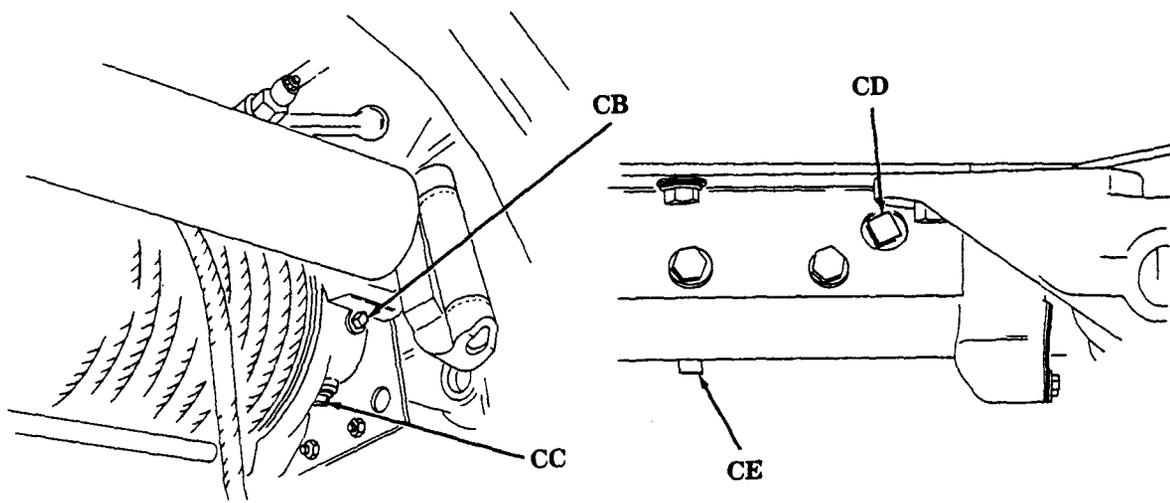
REAR WINCH GEARCASE

LOCALIZED LUBRICATION POINTS (BH THROUGH BU)

TA 350561



FRONT WINCH (LEFT SIDE)



FRONT WINCH ENDFRAME

FRONT WINCH GEARCASE

LOCALIZED LUBRICATION POINTS (BV THROUGH CE)

TA 350562

NOTES

1. INTERVALS

This LO has been revised to comply with DA programing to extend intervals and conserve lubricants. When practicable, lubrication services will be made to coincide with the Vehicle "S" Preventive Maintenance Service. For this purpose, a 10% tolerance (variation) in specified lubrication point mileage is permissible.

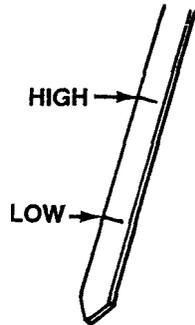
2. CRANKCASE

CAUTION

If water or metal particles are detected during crankcase draining and filter element changing, notify Direct Support Maintenance Personnel before refilling crankcase.

NOTE

- Withdraw dipstick slowly to ensure accurate reading. There are two marks on the dipstick, H (HIGH) and L (LOW). The quantity of oil required to raise the oil level from L (LOW) mark to H (HIGH) mark is approximately 7 quarts (6.6 liters) for M939 and M939A1 and 4 quarts (3.6 liters) for the M939A2.



- Replace oil filter element each time crankcase is drained. Fill crankcase with engine oil.

M939 AND M939A1 SERIES VEHICLES

Crankcase Capacity	Oil Filter Capacity
23 quarts (21.8 liters)	4 quarts (3.8 liters)

M939A2 SERIES VEHICLES

Crankcase Capacity	Oil Filter Capacity
18 quarts (17 liters)	2 quarts (1.9 liters)

- Start engine and visually check for oil leaks at drain plug and oil filter case. Stop engine and allow approximately one minute for oil to drain back into oil pan; recheck oil level with dipstick. The dipstick is equipped with a seal which fits into the opening of the dipstick tube. The seal is seated within the tube and must be turned counterclockwise to be released before dipstick is withdrawn. Turn clockwise to seat after oil level has been checked and dipstick installed.
- Do not hold oil samples. Submit oil samples as soon as they have been taken.

Sample oil every 60 days or 1,000 miles (1,600 kilometers). Army Reserve Units will sample every 120 days or 1,000 miles (1,600 kilometers). Oil will be changed only when directed by oil analysis laboratory. When AOAP laboratory support is not available, change oil and filter element each 6,000 miles (9,600 kilometers) or 6 months, whichever occurs first.

Bring engine up to operating temperature and remove drain plug from oil pan. Inspect for presence of metal particles and water while draining oil into a drainage container. Allow sufficient draining time so that all oil has time to drain. Install drain plug and tighten to 60-70 lb-ft (81-95 N*m).

NOTE

Seasonal oil changes will be made due to expected temperatures. See the key on card 2.

TA. 350563 J

NOTES (Cont'd)

3. ENGINE OIL FILTER

Oil filter will be changed only when directed by oil analysis laboratory. Remove filter drain plug, drain oil, and remove filter case assembly (with element) from filter head. Remove filter element from filter case and inspect for presence of metal particles or water. Discard element after inspection has been completed. Remove seal ring from filter head and discard. Clean filter case thoroughly. Check to ensure element end seals are in place and install new element over spring support assembly. Position new seal ring on filter head with drain plug pointing down. Tighten center screw 25-35 lb-ft (34-47 N*m). When AOAP support is not available, change oil filter each 3,000 miles (4,800 kilometers) or 3 months, whichever occurs first. (Follow procedure outlined in NOTE 2.)

M939A2 series vehicle oil filters will be changed only when directed by oil analysis laboratory. Remove spin-on filter head. Drain oil from filter and observe for metal or water contamination. Discard spin-on filter. Install new spin-on filter. Tighten filter 3/4 turn after seal contacts filter head. When AOAP support is not available, change oil filter each 3,000 miles (4,800 kilometers) or 3 months, whichever occurs first. (Follow procedure outlined in NOTE 2). Look under for NOTE 4.

4. ENGINE FUEL FILTER

Replace every 3,000 miles (4,800 kilometers) or 3 months, whichever occurs first.

5. CRANKCASE BREATHER

Check crankcase breather and tube every 6,000 miles (9,600 kilometers) under normal operating conditions. When operating under unusual conditions, check crankcase breather daily. Refer to TM 9-2320-272-20-1.

6. GEARCASE

Change gear lubricant only when required by maintenance repair action, or if contaminated by water or other foreign material. Drain only after operation when hot. Place vehicle **in level position**. Remove drain and filler plugs from case. If drain plug is magnetic, check for evidence of metal particles. If bits of metal are seen, notify DS maintenance. After draining reinstall drain plugs. Fill axle differentials and transfer case within 1/2 inch (12.7 millimeters) of filler plug opening, when lubricant is cold, or to plug level when hot. Fill other gearcases to plug openings at all times, and install filler plugs. Clean vents after operation in mud or water.

7. FRONT AXLE UNIVERSAL JOINTS AND STEERING KNUCKLE BEARINGS

Every 6,000 miles (9,600 kilometers) or 6 months, whichever occurs first, disassemble and lubricate front axle shaft and universal joints. Refer to TM 9-2320-272-20-1.

8. PROPELLER SHAFT UNIVERSAL AND SLIP JOINTS

Every 3,000 miles (4,800 kilometers) or 3 months, whichever occurs first, lubricate using low pressure lubrication gun until grease is observed coming from all four trunnions. If operating conditions are severe or abnormal, service at 1,000 miles (1,600 kilometers).

9. STEERING HYDRAULIC SYSTEM

CAUTION

Do not overfill power steering reservoir. Oil will overflow into vent system on the M939A1 or thru vent capon the M939A2.

Reservoir level is checked with engine stopped. If engine is cold, fill until oil is visible on dipstick at mark designated COLD FULL. If engine has been warmed-up, fill until oil is visible at mark designated HOT FULL. The steering gear receives lubrication from the power steering pump. If oil in reservoir is contaminated, notify DS maintenance.

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NOTES (Cont'd)

10. REAR SPRINGS TRUNNION BEARINGS

Every 3,000 miles (4,800 kilometers) or 6 months, whichever occurs first, loosen screws on bearing cap, lubricate through fitting until lubricant appears around cap, and tighten screws. Every 12,000 miles (19,000 kilometers) or 12 months, whichever occurs first, remove, clean, dry, and repack trunnion bearings.

11. M936, M936A1 AND M936A2 HOIST WINCH

Weekly, with boom in horizontal position, remove level plug from winch worm gearcase and winch input drive reduction gearcase; if level is below level plug hole, replenish to bottom of hole. Every 6 months, remove level plugs, fill plug, and drain plugs, and drain gearcases. Install drain plugs and fill to level plugs. Install level plugs and fill plug.

12. WINCH AND CRANE HOIST CABLES

Clean and oil with new OE\HDO 30 after each operation. If used infrequently or in very damp or salty conditions, lubricate with CW-II. Do not lubricate winch cable in dry, dusty conditions. Every 6 months, unwind entire cable soak and clean with new OE\HDO 30. Wipe off excess and coat cable and drum with CW before rewinding.

13. M936, M936A1 AND M936A2 CRANE HYDRAULIC OIL RESERVOIR

Weekly, with boom in horizontal position, remove oil filler cap and gage from top of reservoir. If level is below full mark on gage, replenish to full mark. Every 12,000 miles (19,000 kilometers) or 12 months, whichever occurs first, remove pipe plug from drain valve, attach hose (furnished with vehicle), and drain oil into a container. Remove plug in bottom of reservoir to completely drain. Always install plug in drain valve after draining. Refill reservoir to full mark on oil level gage (approximately 100 gallons (378.5 liters)), operate crane several times to completely fill system check level.

14. DUMP BODY HYDRAULIC OIL RESERVOIR

WARNING

Support weight of dump body on safety braces when performing maintenance on hoist mechanism with dump body in raised position.

CAUTION

Remove filler plug slowly to release pressure. Do not overfill.

Weekly, remove filler plug, gage, and screen; clean and install screen, replenish with oil to third mark from top on gage with body down in traveling position. Install gage and plug. Raise and lower body several times slowly and recheck oil level. Drain every 12 months. Remove drain plug from reservoir and drain with dump body in lowered position. Clean and install drain plug. Refill reservoir, install screen, gage, and filler plug. Raise and lower body several times slowly and recheck oil level.

15. OIL CAN POINTS

Every 1,000 miles (1,600 kilometers) or monthly, whichever occurs first, lubricate hinges and latches, transfer case and power takeoff shift linkage, parking brake lever, rear winch control lever linkage, dump truck tailgate bearings, and spare tire carrier boom roller with seasonal grade OE/HDO.

16. DO NOT LUBRICATE

Springs, alternator, water pump, or shock absorbers.

NOTES (Cont'd)

17. LUBRICATED AT TIME OF DISASSEMBLY BY DS & GS PERSONNEL

Item lubricated as part of maintenance repair procedure.

18. OPERATOR PARTICIPATION

"D" and "W" maintenance is performed by the operator. The operator will assist organizational maintenance when "M", "Q", "S", "3/S", "A", "B", "OC", and "C/MR" maintenance is performed.

19. M936, M936A1 AND M936A2 CRANE HYDRAULIC SYSTEM FILTER

CAUTION

Do not operate crane when indicator is at "BYPASSING" position.
Refer to TM 9-2320-272-20-2.

To maintain adequate filtering, remove and clean filter element when indicator points to "NEEDS CLEANING". Check indicator with pump running and oil at operating temperature. Stop engine and remove and clean filter if indicated.

20. M935, M935A1 AND M935A2 LIFTGATE HYDRAULIC OIL RESERVOIR

Every 3 months check hydraulic oil level. Place liftgate in lowered position at ground level and remove filler plug. Oil supply is minimum at 2 inches (5.1 centimeters) and maximum at 3 inches (7.6 centimeters) as indicated on dipstick.

When necessary to add oil, operate liftgate several times up and down; open and close with filler plug removed. If there is excessive oil in the system it will overflow. Replace filler plug.

21. TEMPERATURE RISES

If ambient temperature rises to +70°F (+21°C) for no more than one week, use of OE/HDO 10 is permissible. If ambient temperature rises to +30°F (-1°C) for no more than one week, use of OEA is permissible.

22. FOR OPERATION OF EQUIPMENT IN PROLONGED COLD TEMPERATURE BELOW -10° F (-23°C)

Remove lubricants prescribed in the key for temperatures above -10°F (-23°C). Clean parts with drycleaning solvent. Relubricate with lubricants specified in the key for temperatures below -10°F (-23°C).

23. TRANSMISSION

Check and fill transmission to proper level weekly.

Check oil level of automatic transmission using the following procedure:

- (1) Allow engine to idle. Shift transmission to neutral and apply parking brake.
- (2) Withdraw dipstick slowly to prevent a false reading. If transmission oil temperature gage reads 180°F (82°C) or below, level on dipstick should show between marks designated for normal run. If transmission oil temperature is above 180°F (82°C) allow transmission oil to cool.
- (3) If transmission oil level is low, add oil through filler tube. Return dipstick to filler tube, tighten dipstick handle and wipe away any oil spilled.

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NOTES (Cont'd)

CAUTION

Do not overfill transmission. Internal transmission component damage will result.

When AOAP laboratory support is not available, change oil every 24,000 miles (38,000 kilometers) or 24 months, whichever occurs first. (Refer to TM 9-2320-272-20-2 for transmission oil filter, transmission oil cooler filter, and transmission governor filter removal and installation instructions.)

24. WHEEL BEARINGS

Every 6,000 miles (9,600 kilometers) or 6 months, whichever occurs first, remove, clean, dry, repack, and install front wheel bearings. Every 12,000 miles (19,000 kilometers) or 12 months, whichever occurs first, remove, clean, dry, repack, and install inner and outer rear wheel bearings.

25. WINCHES, CRANES, WRECKERS, DUMP BODY AND LIFTGATE

Service every 3,000 miles (4,800 kilometers) or 6 months, whichever occurs first. If operation is frequent, continuous, or under severe conditions, service weekly.

26. FRONT SPRING SHACKLES

CAUTION

Wipe fittings clean before servicing to prevent damage to shackle pins and bushings.

Every 3,000 miles (4,800 kilometers) or 3 months, whichever occurs first, lubricate with GAA until grease appears between shackle pin and bushing at both ends of spring shackle. If shackle pin does not accept GAA, remove pin. Clean and inspect shackle pin and bushing. Replace if necessary.

27. M934A1, M935A1 AND M935A2 SWING DAVIT BASE

Remove three screws and swing davit base. Lubricate inside of base and mating surface of swing davit. Install swing davit base.

Copy of this lubrication order will remain with the vehicle at all times. Instructions contained herein are mandatory and supersede all conflicting lubrication instructions dated prior to the date of this lubrication order.

BY ORDER OF THE SECRETARIES OF THE ARMY AND THE AIR FORCE:

CARL E. VUONO

*General, United States Army
Chief of Staff*

OFFICIAL:

THOMAS F. SIKORA

*Brigadier General, United States Army
The Adjutant General*

LARRY D. WELCH

*General, United States Air Force
Chief of Staff*

OFFICIAL:

CHARLES C. McDONALD

*General, United States Air Force
Commander, Air Force Logistics Command*

Distribution:

To be distributed in accordance with DA Form 12-38-E, Block 0625, Operator and Unit maintenance requirements for LO 9-2320-272-12.

TA 350475

