TECHNICAL MANUAL
OPERATOR'S MANUAL
FOR

TRUCK, UTILITY: CARGO/TROOP CARRIER, 1-1/4 TON, 4X4, M998 NSN 2320-01-107-7155 (EIC: BBD)
TRUCK, UTILITY: CARGO/TROOP CARRIER, 1-1/4 TON, 4X4, M998A1 NSN 2320-01-371-9577 (EIC: BBN)
TRUCK, UTILITY: CARGO/TROOP CARRIER, 1-1/4 TON, 4X4, W/WINCH, M1038 NSN 2320-01-107-7156 (EIC: BBE)
TRUCK, UTILITY: CARGO/TROOP CARRIER, 1-1/4 TON, 4X4, W/WINCH, M1038A1 NSN 2320-01-371-9578 (EIC: BBP)
TRUCK, UTILITY: HEAVY VARIANT, 4X4, M1097 NSN 2320-01-346-9317 (EIC: BBM)
TRUCK, UTILITY: HEAVY VARIANT, 4X4, M1097A1 NSN 2320-01-371-9583 (EIC: BBU)
TRUCK, UTILITY: HEAVY VARIANT, 4X4, M1097A2, M1097R1 NSN 2320-01-380-8604 (EIC: BB6)
TRUCK, UTILITY: HEAVY VARIANT, 4X4, M1123 NSN 2320-01-455-9593 (EIC: B6G)
TRUCK, UTILITY: TOW CARRIER, ARMORED, 1-1/4 TON, 4X4, M966 NSN 2320-01-107-7153 (EIC: BBC)
TRUCK, UTILITY: TOW CARRIER, ARMORED, 1-1/4 TON, 4X4, M966A1 NSN 2320-01-372-3932 (EIC: BBX)
TRUCK, UTILITY: TOW CARRIER, ARMORED, 1-1/4 TON, 4X4, M1121 NSN 2320-01-456-1282 (EIC: B6H)
TRUCK, UTILITY: TOW CARRIER, W/SUPPLEMENTAL ARMOR, 1-1/4 TON, 4X4, M1045 NSN 2320-01-146-7191
TRUCK, UTILITY: TOW CARRIER, W/SUPPLEMENTAL ARMOR, 1-1/4 TON, 4X4, M1045A1 NSN 2320-01-371-9580 (EIC: BBR)
TRUCK, UTILITY: TOW CARRIER, W/SUPPLEMENTAL ARMOR, 1-1/4 TON, 4X4, M1045A2 NSN 2320-01-380-8229 (EIC: BB5)
TRUCK, UTILITY: TOW CARRIER, W/SUPPLEMENTAL ARMOR, 1-1/4 TON, 4X4, W/WINCH, M1046 NSN 2320-01-146-7188
TRUCK, UTILITY: TOW CARRIER, W/SUPPLEMENTAL ARMOR, 1-1/4 TON, 4X4, W/WINCH, M1046A1 NSN 2320-01-371-9582 (EIC: BBT)
TRUCK, UTILITY: ARMAMENT CARRIER, ARMORED, 1-1/4 TON, 4X4, M1025 NSN 2320-01-128-9551 (EIC: BBF)
TRUCK, UTILITY: ARMAMENT CARRIER, ARMORED, 1-1/4 TON, 4X4, M1025A1 NSN 2320-01-371-9584 (EIC: BBV)
TRUCK, UTILITY: ARMAMENT CARRIER, ARMORED, 1-1/4 TON, 4X4, M1025A2, M1025R1 NSN 2320-01-380-8233 (EIC: BB3)
TRUCK, UTILITY: ARMAMENT CARRIER, ARMORED, 1-1/4 TON, 4X4, W/WINCH, M1026 NSN 2320-01-128-9552 (EIC: BBG)
TRUCK, UTILITY: ARMAMENT CARRIER, ARMORED, 1-1/4 TON, 4X4, W/WINCH, M1026A1 NSN 2320-01-371-9579 (EIC: BBQ)
TRUCK, UTILITY: ARMAMENT CARRIER, W/SUPPLEMENTAL ARMOR, 1-1/4 TON, 4X4, M1043 NSN 2320-01-146-7190
TRUCK, UTILITY: ARMAMENT CARRIER, W/SUPPLEMENTAL ARMOR, 1-1/4 TON, 4X4, M1043A1 NSN 2320-01-372-3933 (EIC: BBY)
TRUCK, UTILITY: ARMAMENT CARRIER, W/SUPPLEMENTAL ARMOR, 1-1/4 TON, 4X4, M1043A2 NSN 2320-01-380-8213 (EIC: BB4)
TRUCK, UTILITY: ARMAMENT CARRIER, W/SUPPLEMENTAL ARMOR, 1-1/4 TON, 4X4, W/WINCH, M1044 NSN 2320-01-146-7189
TRUCK, UTILITY: ARMAMENT CARRIER, W/SUPPLEMENTAL ARMOR, 1-1/4 TON, 4X4, W/WINCH, M1044A1 NSN 2320-01-371-9581 (EIC: BBS)
TRUCK, UTILITY: S250 SHELTER CARRIER, 4X4, M1037 NSN 2320-01-146-7193 (EIC: BBK)
TRUCK, UTILITY: S250 SHELTER CARRIER, 4X4, W/WINCH, M1042 NSN 2320-01-146-7187
TRUCK, AMBULANCE, 2-LITTER, ARMORED, 4X4, M996 NSN 2310-01-111-2275 (EIC: BBB)
TRUCK, AMBULANCE, 2-LITTER, ARMORED, 4X4, M996A1 NSN 2310-01-372-3935 (EIC: BB2)
TRUCK, AMBULANCE, 4-LITTER, ARMORED, 4X4, M997 NSN 2310-01-111-2274 (EIC: BBA)
TRUCK, AMBULANCE, 4-LITTER, ARMORED, 4X4, M997A1 NSN 2310-01-372-3934 (EIC: BBZ)
TRUCK, AMBULANCE, 4-LITTER, ARMORED, 4X4, M997A2 NSN 2310-01-380-8225 (EIC: BB8)
TRUCK, AMBULANCE, 2-LITTER, SOFT TOP, 4X4, M1035 NSN 2310-01-146-7194
TRUCK, AMBULANCE, 2-LITTER, SOFT TOP, 4X4, M1035A1 NSN 2310-01-371-9585 (EIC: BBW)
TRUCK, AMBULANCE, 2-LITTER, SOFT TOP, 4X4, M1035A2 NSN 2310-01-380-8290 (EIC: BB9)

***SUPERSEDURE NOTICE:** This TM supersedes TM 9-2320-280-10 dated 31 January 1996 and all changes.

DISTRIBUTION STATEMENT C: Distribution authorized to U.S. Government agencies and their contractors. REASON: Critical Technology. DATE OF DETERMINATION: 4 October 2007. Other requests for this document shall be referred to the U.S. Army TACOM Life Cycle Management Command, ATTN: AMSTA-LCL-MPP/ TECH PUBS, MS 727, 6501 E. 11 Mile Road, Warren, MI 48397-5000.

EXPORT CONTROL NOTICE: This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., Sec. 2751 et seq) or the Export Administration Act of 1979, as amended, Title 50, U.S.C., App. 2401 et seq. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25.

DESTRUCTION NOTICE: Destroy by any method that will prevent disclosure of contents or reconstruction of the document.

HEADQUARTERS, DEPARTMENTS OF THE ARMY, AIR FORCE, AND HEADQUARTERS, US MARINE CORPS
27 SEPTEMBER 2013 Marine Corps PCN 180 002321 00

OPERATOR MAINTENANCE
PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) - BEFORE

INITIAL SETUP:

References

WP 0092

AR 385-10

Table 1. Preventive Maintenance Checks and Services - Before.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			WARNING Always remember WARNINGS, CAUTIONS, and NOTES before operating this vehicle and prior to PMCS. **NOTE** Perform your before, after, and weekly checks if: 1. You are the assigned driver but have not operated the vehicle since the last weekly inspection. 2. You are operating the vehicle for the first time. 3. See separate manual for smoke generator, TOW launcher, and radios.	
1.	Before	Left Front, Side Exterior	**DRIVER** **CAUTION** If leaks are detected in area of transfer case oil cooler, do not attempt to tighten retaining nuts. Internal damage to transfer case oil cooler may result. Notify field maintenance. **NOTE** If leakage is detected, further investigation is needed to determine location and cause of leak.	

Table 1. Preventive Maintenance Checks and Services - Before - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			a. Visually check underneath vehicle for any evidence of fluid leakage.	Any brake fluid leaks; class III leak of oil, fuel, or coolant.
			b. Visually check front and left side of vehicle for obvious damage that would impair operation.	Any damage that prevents operation.
			c. Check and adjust mirror.	Mirror cracked, broke, or missing.
2.	Before	Left Side Tires	**DRIVER** **WARNING** Operating a vehicle with a tire in an underinflated condition or with a questionable defect may lead to premature tire failure. Failure to comply may result in equipment damage and injury or death to personnel.	
			Visually check tires for underinflation and defects.	Tire missing, deflated, or unserviceable.
3.	Before	Rear Exterior	**DRIVER** **NOTE** If leakage is detected, further investigation is needed to determine location and cause of leak.	
			a. Visually check underneath vehicle for evidence of fluid leakage.	Any brake fluid leaks; class III leak of oil, fuel, or coolant.
			b. Visually check rear of vehicle for obvious damage that would impair operation.	Any damage that prevents operation.
			c. Inspect bumper supports for cracks before towing trailer.	Any damage that prevents operation.

Table 1. Preventive Maintenance Checks and Services - Before - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			NOTE Perform following check prior to airlift procedure.	
			d. Inspect shackle for loose or missing mounting hardware.	Loose or missing hardware.
4.	Before	Exhaust Louvers (M996, M996A1)	**DRIVER** Check air exhaust louvers to ensure they are clear and free of debris that would restrict air flow. Clean any dirt or debris from louvers.	
5.	Before	Right Front, Side Exterior	**DRIVER** **NOTE** If leakage is detected, further investigation is needed to determine location and cause of leak.	
			a. Visually check underneath vehicle for evidence of fluid leakage.	Any brake fluid leaks; class III leak of oil, fuel, or coolant.
			b. Visually check front and right side of vehicle for obvious damage that would impair operation.	Any damage that prevents operation.
			c. Check and adjust mirror.	Mirror cracked, broke, or missing.
6.	Before	Right Side Tires	**DRIVER** **WARNING** Operating a vehicle with a tire in an underinflated condition or with a questionable defect may lead to premature tire failure. Failure to comply may result in equipment damage and injury or death to personnel.	
			Visually check tires for underinflation and defects.	Tire missing, deflated, or unserviceable.

Table 1. Preventive Maintenance Checks and Services - Before - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
7.	Before	Front	**DRIVER** **NOTE** If leakage is detected, investigation is needed to determine location and cause of leak.	
			a. Visually check front of vehicle for obvious damage that would impair operation.	Any damage that prevents operation.
			b. Visually check underneath vehicle for evidence of fluid leakage.	Any brake fluid leaks; class III leak of oil, fuel, or coolant.
8.	Before	Power Steering Reservoir (All models excepts A2 and M1123)	**DRIVER** **CAUTION** • Do not permit dirt, dust, or grit to enter power steering reservoir. Damage to power steering system will result if power steering fluid becomes contaminated. • Do not overfill power steering reservoir. Damage to power steering system will result. Check fluid in power steering reservoir (WP 0092). Fluid should be between **HOT** and **COLD** marks. Add fluid if level is below **COLD** mark.	

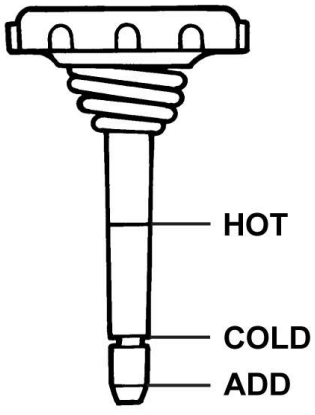


Figure 1. Power Steering Reservoir Cap (Basic and A1 Vehicles Only).

Table 1. Preventive Maintenance Checks and Services - Before - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
9.	Before	Power Steering Reservoir (A2 and M1123 models only)	**DRIVER** **CAUTION** • Do not permit dirt, dust, or grit to enter power steering reservoir. Damage to power steering system will result if power steering fluid becomes contaminated. • Do not overfill power steering reservoir. Damage to power steering system will result. Check sightglass for proper fluid level. If fluid is **HOT**, level should be at top of sightglass. If fluid is **COLD**, fluid should be in center of sightglass. Add fluid if level is at bottom of sightglass.	

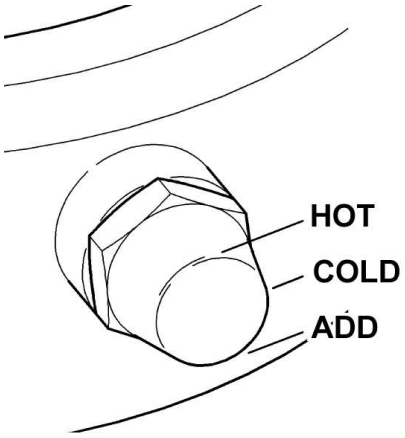


Figure 2. Power Steering Reservoir Cap (A2, R1, M1123 Vehicles Only).

10.	Before	Cooling System	**DRIVER** **WARNING** If engine has been recently operated, do not remove radiator cap to check coolant level. Cooling system is under pressure, and escaping steam or coolant can cause burns. **CAUTION** Overheating, caused by lack of coolant, will cause engine damage.	

Table 1. Preventive Maintenance Checks and Services - Before - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			Check coolant level in coolant tank. Level should be at or above **FULL COLD** line. Add coolant if below **FULL** line.	
11.	Before	Seat and Seatbelts	**DRIVER** **NOTE** Vehicle operation with inoperative seatbelts may violate AR 385-10.	
			a. Check all seatbelts, including troop seat safety strap for security, damage, and proper operation.	Seatbelts inoperable, buckles or clasps damaged, retractor damaged, or straps frayed.
			b. Check gunner's restraint for security, damage, and operation of harness, tail strap, sling seat assembly, turret brackets, mount retractor, rotary buckle quick release and clasp ends.	Harness, tail strap, sling seat assembly is missing, frayed, damaged or does not fasten, adjust, retract or operate.
			c. Check operation of seat adjusting mechanism (driver's seat only).	Seat adjusting lock inoperative, or missing.
12.	Before	Fire Extinguisher	**DRIVER** a. Check for missing or damaged fire extinguisher.	Fire extinguisher missing or damaged.
			b. Check gauge for proper pressure of about 150 psi (1,034 kPa).	Pressure gauge needle in recharge area.
			c. Check for damaged or missing seal.	Seal broken or missing.

Table 1. Preventive Maintenance Checks and Services - Before - Continued.

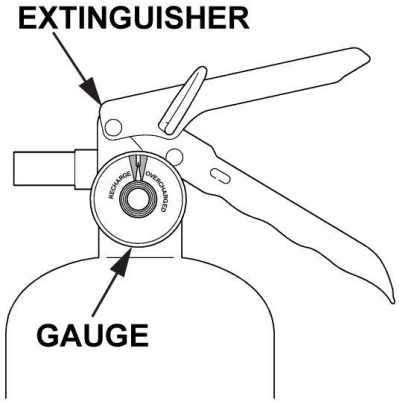
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			 *Figure 3. Fire Extinguisher.*	
13.	Before	Instrument Panel	**DRIVER** **WARNING** If gauges, instruments, or instrument lights are inoperable or not within ranges described in these checks, immediately shut off engine and notify your supervisor or unit maintenance personnel. Continued operation of vehicle may result in injury to personnel or damage to equipment. **NOTE** If engine is warm, wait to start light may not come on. During cranking or after starting, light may go on and off a few times. a. Check wait to start light and brake warning light. Turn rotary switch to **RUN**. Wait to start and brake warning light should come on.	Wait to start light does not come on when engine is cold, or wait light stays on continually. Brake warning light does not come on.

Table 1. Preventive Maintenance Checks and Services - Before - Continued.

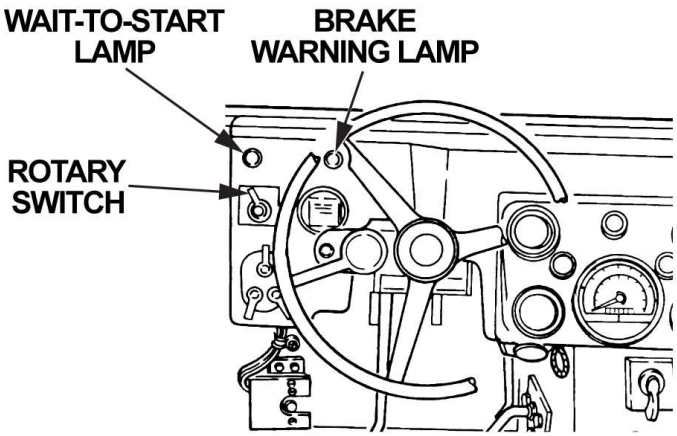
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			 *Figure 4. Rotary Switch, Wait-To-Start Lamp, and Brake Warning Lamp.*	
			b. Start engine and check following:	Engine will not start.
			1. Engine oil pressure gauge.	Oil pressure is less than 10 psi (69 kPa) at idle.
			2. Voltmeter.	Voltmeter needle stays in yellow or red range.
			3. Air restriction gauge.	Air restriction indicator reaches red zone.
			4. Brake warning light should go off when hand brake is released.	Brake warning light stays on after hand brake is released or comes on while driving.
			5. Check fuel gauge.	

Table 1. Preventive Maintenance Checks and Services - Before - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			6. Check coolant temperature gauge.	Coolant temperature gauge inoperative or reads greater than 240° F (116° C) and/or overheat lamp illuminates.

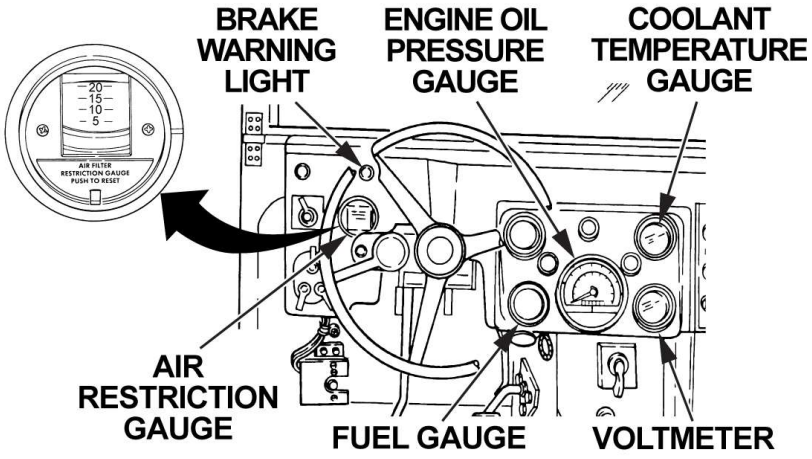


Figure 5. Instrument Panel Gauges.

			7. Check transmission indicator lamp.	Transmission indicator lamp stays illuminated.

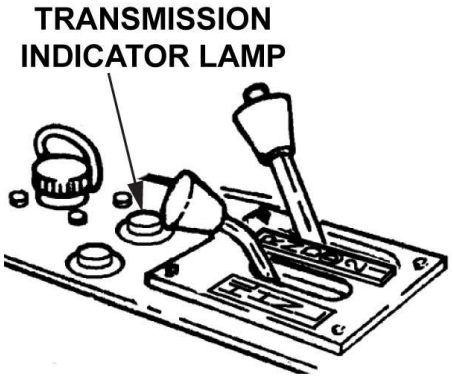


Figure 6. Transmission Indicator Lamp.

Table 1. Preventive Maintenance Checks and Services - Before - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
14.	Before	Brakes	**DRIVER** **NOTE** Engine must be warmed up and idling, transmission in drive (**D**), transfer in high (**H**), and parking brake released to perform following check.	
			a. Check brake pedal travel. With vehicle at idle, transfer in high (**H**), transmission in drive (**D**), allow vehicle to move forward. As vehicle moves, slowly depress brake pedal. Pedal should travel 1 to 1 ½ in. (2.5 to 3.8 cm) before brakes take hold. After brakes take hold, pedal may exceed 1 to 1 ½ in. (2.5 to 3.8 cm) travel. This is normal.	Brakes will not stop vehicle.
			b. Check parking brake. With parking brake fully applied, transmission in drive (**D**) or reverse (**R**), and transfer in high (**H**), vehicle should not move.	Parking brake inoperable or unable to hold vehicle.
			c. Check parking brake lever safety mechanism to ensure that it latches when parking brake is applied.	Parking brake lever safety mechanism (if equipped) is not functioning properly.
15.	Before	NBC (CBRN) System (M996, M996A1, M997, M997A1, M997A2)	**DRIVER** a. Check NBC (CBRN) system power switch for proper operation and security of mounting. All system fuses, including spares, should be present.	
			b. Check NBC (CBRN) heater for proper operation. When knob is turned clockwise, the light should come on, indicating heater is working.	Light does not come on. Heater inoperable.

Table 1. Preventive Maintenance Checks and Services - Before - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			c. Check for steady flow of air at hose outlets.	Flow of air not steady or no flow of air.
16.	Before	Weapon Station (M966, M966A1, M1045, M1045A1, M1045A2, M1046, M1046A1, M1025, M1025A1, M1025A2/R1, M1026, M1026A1, M1043, M1043A1, M1043A2, M1044, M1044A1, M1121)	**DRIVER** **NOTE** Weapon station binding should be checked with weapon system or equivalent weight applied to turret. Refer to appropriate system TM to determine weight of weapon system.	
			a. Check weapon station for binding by rotating 360° in both directions at least five times.	Weapon station binds.
			b. (Armament carriers only) Check armament mounting plate and bearing sleeve for security of mounting and obvious damage that would impair operation.	Armament weapons required for missions: Mounting plate or bearing sleeve missing or any damage that prevents or impair mounting of armament weapons.
			c. (TOW vehicles only) Check inclinometer for proper operation. Check level vial for breaks and/or bubbles.	Level vial is broken or no bubble is present.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) - DURING

INITIAL SETUP: NOT APPLICABLE

Table 1. Preventive Maintenance Checks and Services - During.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1.	During	Controls and Indicators	**DRIVER** a. Monitor all gauges.	Engine oil pressure gauge reads less than approximately 25 psi (172 kPa) under normal driving conditions or less than 10 psi (69 kPa) at idle. Coolant temperature gauge reads greater than 240° F (116° C). Air restriction gauge indicates restriction in air cleaner. Voltmeter indicates loss of voltage.
			b. Check speedometer operation.	Speedometer not operational.
			c. (Marine Corps Only) Check hour/tachometer operation.	Hour/tachometer not operational.
2.	During	Brakes	**DRIVER** Check brakes for pulling or grabbing.	Brakes pull or grab.
3.	During	Steering	**DRIVER** Be alert for excessive sway, leaning to one side, or unstable handling. Check steering response for unusual free play, binding, or shimmy.	Handling is unstable; turning is difficult; unusual free play, binding, or shimmy detected.
4.	During	Accelerator Pedal	**DRIVER** Check response to accelerator feed. Check for sticking or binding pedal.	Pedal sticking or binding.

Table 1. Preventive Maintenance Checks and Services - During - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
5.	During	Powertrain	**DRIVER** Be alert for unusual noises or vibrations from engine, transmission, transfer case, differentials, propeller shafts (especially under load), axle shafts, or wheels.	Unusual noise or vibration detected.
6.	During	Transmission	**DRIVER** Check transmission for proper operation.	Transmission slips or will not shift.
7.	During	Air Conditioner (M997, M997A1, M997A2)	**NOTE** Perform following inspection only if air conditioner is required for climatic conditions.	
			Turn air conditioner on and set blower to maximum cooling speed settings. Wait 5 minutes to allow temperature to stabilize. Check outlet ducts for cool air.	Climatic conditions require air-conditioning and A/C is inoperable, or outlet duct air is not cooler than ambient temperature.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) - AFTER

INITIAL SETUP:

References

AR 385-10

Table 1. Preventive Maintenance Checks and Services - After.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1.	After	Gear Shifter Lever	**DRIVER** a. Check transmission shift lever operation. Shift transmission through all operating ranges. Lever should move freely through all range positions.	Lever inoperable or binds between range detents.
			b. Check transfer shift lever operation. With transmission in neutral (**N**), shift transfer lever through all range positions. Lever should move freely through all range positions.	Lever inoperable or does not engage in all ranges with engine not running.

Table 1. Preventive Maintenance Checks and Services - After - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
2.	After	Transmission Fluid	**DRIVER** **CAUTION** • Do not permit dirt, dust, fluid or grit to enter transmission oil dipstick tube. Internal transmission damage will result if transmission oil becomes contaminated. • Do not overfill transmission. Damage to transmission will result. An over-full transmission can also indicate a transfer case fluid leak. Notify field maintenance if transmission fluid is above crosshatch mark. **NOTE** • With foot on brake, move shift lever through each gear range. Pause for about three seconds in each range, ending in park (**P**) for vehicles that have 4L80-E/4L85-E transmission and in neutral (**N**) for vehicles that have 3L80 transmission. • Transmission fluid level should be checked with engine running, parking brake set, transmission shift lever in park (**P**) for vehicles that have 4L80-E/4L85-E transmission and in neutral (**N**) for vehicles that have 3L80 transmission, and vehicle on level ground. Fluid level should be at crosshatch marks on dipstick. • Let vehicle idle with all accessories off for three minutes. • Engine operating temperature of 190–240° F (88–116° C) must be reached before performing AFTER checks. Check transmission fluid level. If level is below crosshatch marks, add sufficient fluid to bring level to crosshatch marks.	

Table 1. Preventive Maintenance Checks and Services - After - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			 *Figure 1. Transmission Oil Dipstick.*	
3.	After	Fuel Filter	**DRIVER** **WARNING**  Do not perform fuel system checks, inspections, or maintenance while smoking or near fire, flames, or sparks. Fuel may ignite, causing damage to vehicle and injury or death to personnel. **NOTE** A rubber hose can be attached to drain valve to catch fuel in container before opening drain valve. If fuel is clear, put fuel back in fuel tank. a. Check fuel for contamination. With engine running, open drain valve. Allow fuel to drain into suitable container until it runs clear and close valve.	Fuel is not clear after draining 1 pt (0.47 L).

Table 1. Preventive Maintenance Checks and Services - After - Continued.

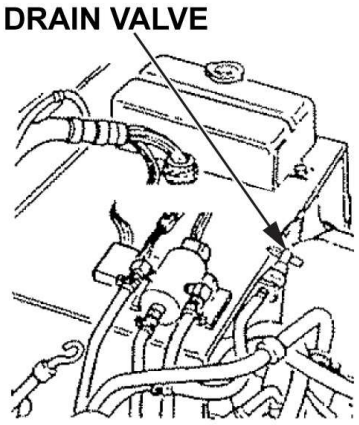
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			NOTE Fuel retained in drain valve may drip when vehicle vibrations occur. This is normal and does not constitute a leak. Wipe drain valve with rag until excess fuel is removed.	
			b. Check for leaks.	Any Class III leakage evident.
			c. Stop engine and remove rubber hose from drain valve, if installed.	
				
			Figure 2. Fuel Filter Drain Valve.	
4.	After	Left Side Tires	**DRIVER** **WARNING** Operating a vehicle with a tire in an underinflated condition or with a questionable defect may lead to premature tire failure. Failure to comply may result in equipment damage and injury or death to personnel.	
			Visually check tires for underinflation, cuts, gouges, cracks, or bulges. Remove all penetrating objects.	Tires deflated or otherwise unserviceable.

Table 1. Preventive Maintenance Checks and Services - After - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
5.	After	Left Side Mirror	**DRIVER** **NOTE** Vehicle operation with damaged or missing outside rearview mirrors may violate AR 385-10. Check mirror for defects, cracks, and serviceability.	
6.	After	Left Front, Side Exterior	**DRIVER** **NOTE** If leakage is detected, further investigation is needed to determine location and cause of leak.	
			a. Visually check underneath vehicle for evidence of fluid leakage.	Any brake fluid leaks; Class III leak of oil, fuel, or coolant.
			b. Visually check halfshaft cv boots and ball joint boots for rips, tears, or cuts.	
			c. Inspect frame crossmembers and underbody support for missing hardware, cracks, bends, and breaks. Notify field maintenance if rust is present, but base metal is sound.	Crossmembers or underbody support are missing any hardware, are cracked, broken, or bent or rusted-through condition is present that would affect vehicle operation.
			d. Visually check for body damage that would impair operation of vehicle.	Any damage that prevents operation.
7.	After	Rear Exterior	**DRIVER** **NOTE** If leakage is detected, further investigation is needed to determine location and cause of leak.	

Table 1. Preventive Maintenance Checks and Services - After - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			a. Visually check underneath vehicle for evidence of fluid leakage.	Any brake fluid leaks; Class III leak of oil, fuel, or coolant.
			b. Visually check halfshaft cv boots and ball joint boots for rips, tears, or cuts.	
			c. Inspect frame crossmembers and underbody support for missing hardware, cracks, bends, and breaks. Notify field maintenance if rust is present, but base metal is sound.	Crossmembers or underbody support are missing any hardware, are cracked, broken, or bent or rusted-through condition is present that would affect vehicle operation.
			d. Inspect bumper or crossmember and inner braces in area around towing pintle for cracks or breaks.	Bumper, crossmember, or an inner brace is cracked or broken.
8.	After	Patient Compartment (M996, M996A1, M997, M997A1, M997A2)	**DRIVER**	
			a. Check presence and operation of ceiling white lights, blackout lights, and spotlights.	One or more lights inoperative or unserviceable.
			b. Check operation of blackout switches at rear step, rear doors, and bulkhead door.	Any blackout switch inoperable.
			c. Inspect condition and security of litter racks and components.	
			d. Inspect upper litter rack hinges and latches for proper operation, damage, and missing components.	Hinges or latches inoperative, damaged, or missing.
			e. Inspect tension straps, support straps, litter straps, and footman loops for security of mounting, damage, and missing components.	

Table 1. Preventive Maintenance Checks and Services - After - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			f. Inspect oxygen bottles and mounting components for security of stowage when oxygen bottles are in stowed position.	
			g. Inspect IV straps and hangers for security of mounting, damage, and missing components.	
			h. Check operation of rear doors, handles, and latching mechanisms. Check for loose or missing components. Door should not bind and should close securely when latched shut.	Rear door handles and latching mechanisms do not operate properly.
			i. Inspect rear door seals, step seals, bulkhead door and rear door vent seals (M996 and M996A1 only) for proper installation and condition. Door seals must not allow emission of light signature under blackout conditions.	Door seals allow emission of light signature under blackout conditions (detectable from 50 ft [15 mi] of vehicle).
9.	After	Right Side Tires	**DRIVER** **WARNING** Operating a vehicle with a tire in an underinflated condition or with a questionable defect may lead to premature tire failure. Failure to comply may result in equipment damage and injury or death to personnel.	
			Visually check tires for underinflation, cuts, gouges, cracks, or bulges. Remove all penetrating objects.	Tire deflated or otherwise unserviceable.
10.	After	Right Side Mirror	**DRIVER** **NOTE** Vehicle operation with damaged or missing outside rearview mirrors may violate AR 385-10.	

Table 1. Preventive Maintenance Checks and Services - After - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			Check mirror for defects, cracks, and serviceability.	
11.	After	Right Front, Side Exterior	**DRIVER** **NOTE** If leakage is detected, further investigation is needed to determine location and cause of leak.	
			a. Visually check underneath vehicle for evidence of fluid leakage.	Any brake fluid leaks; Class III leak of oil, fuel, or coolant.
			b. Visually check halfshaft cv boots and ball joint boots for rips, tears, or cuts.	
			c. Inspect frame crossmembers and underbody support for missing hardware, cracks, bends, and breaks. Notify field maintenance if rust is present, but base metal is sound.	Crossmembers or underbody support are missing any hardware, are cracked, broken, or bent or rusted-through condition is present that would affect vehicle operation.
			d. Visually check front and right side of vehicle for obvious damage that would impair operation.	Any damage that prevents operation.
12.	After	Engine Oil	**DRIVER** **CAUTION** • Do not permit dirt, dust, or grit to enter engine oil dipstick tube. Internal engine damage will result if engine oil becomes contaminated. • Do not overfill engine crankcase. Damage to engine will result.	

Table 1. Preventive Maintenance Checks and Services - After - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			Check engine oil level. Level should be between **ADD** and **FULL**. If level is below **ADD**, add oil to bring level between **ADD** and **FULL** marks.	Oil appears milky.

Figure 3. Engine Oil Dipstick.

13.	After	Power Steering Lines and Fittings	**DRIVER** **CAUTION** Notify field maintenance if power steering system has class III leak. Loss of power assist could occur if this condition exists. Check power steering lines and fittings for leaks.	Class III leakage evident.
14.	After	Cooling System	**DRIVER** Inspect radiator hoses for leakage.	Class III leakage evident.
15.	After	Master Cylinder	**DRIVER** Visually check master cylinder lines for leaks and security of cover.	Any leak, or cover missing.
16	After	Windshield Washer Bottle	**DRIVER** a. Visually check windshield washer bottle for damage. b. Check windshield washer fluid level.	

Table 1. Preventive Maintenance Checks and Services - After - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
17.	After	Lights	**DRIVER W/ASSISTANT** **CAUTION** Never set rotary switch to **RUN** to check lights. This drains batteries and can burn out glow plugs and control box. **NOTE** Vehicle operation with damaged or inoperable headlights may violate AR 385-10. a. Check for presence and operation of service drive, turn signal, blackout marker, marker, blackout drive, and side marker lights. b. Check operation of tail/stoplights. Push down brake pedal approximately 1/4 in. (6.4 mm). Tail/stoplights should come on.	
18.	After	Horn	**DRIVER** **NOTE** • Vehicle operation with inoperative horn may violate AR 385-10. • Ensure all light switches are in **OFF** position when complete. Check operation of horn if tactical situation permits.	
19.	After	Windshield and Wipers	**DRIVER** **NOTE** Vehicle operation with damaged windshield may violate AR 385-10. a. Check windshield for damage that would impair operator's vision.	Windshield is cracked, broken, or discolored (cloudy) sufficiently to impair operator's vision.

Table 1. Preventive Maintenance Checks and Services - After - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			NOTE Vehicle operation with inoperative wipers may violate AR 385-10. b. Check windshield wiper and blade for defects, damage, and proper operation. c. Check windshield wipers and washer for proper operation.	

END OF WORK PACKAGE

OPERATOR MAINTENANCE
PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) - WEEKLY

INITIAL SETUP:

Materials/Parts

Distilled Water (WP 0107, Item 12)

References

WP 0002
WP 0072
WP 0100
DA Form 2404
TM 9-2610-200-14

Table 1. Preventive Maintenance Checks and Services - Weekly.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1.	Weekly	Hand Throttle	**DRIVER** a. Check hand throttle and mounting bracket for security. Check throttle release lever to ensure hand throttle cable operates properly. b. Check hand throttle cable for corrosion, nicks, breaks, or burns.	

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
2.	Weekly	Tires	**DRIVER** **WARNING** • Do not exceed 30 psi (207 kPa) cold bias tire inflation pressure. Overinflation of tire may result in damage to equipment and injury or death to personnel. • Do not exceed 50 psi (345 kPa) cold radial tire inflation pressure. Overinflation of tire may result in damage to equipment and injury or death to personnel. • Goodyear MT radial tires are not to be mixed with either Goodyear MT/R radial tire or Goodrich Baja radial tire. Failure to comply may result in injury to personnel or damage to equipment. Goodyear MT/R tire and Goodrich Baja tire are compatible and can be mixed in any combination on vehicles. **NOTE** • Check tire size designator on sidewall for tire construction identification: 36x12.50-16.5 LT-Bias ply, 37x12.50R 16.5 LT-Radial. • Both radial and bias tires are non-directional. They provide equal traction and performance when installed in either direction. • Refer to TM 9-2610-200-14 for additional tire information. • Refer to Table 24. Tire Pressure (Bias Tires) (WP 0002) or Table 25. Tire Pressure (Radial Tire) (WP 0002) for vehicle tire pressures.	

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			a. Check tire tread depth. Tread should not be worn beyond level of wear bar (1/16 in. (1.59 mm) or less). Wear bars are molded across tread pattern in the valley between center rib and lugs. Tread Wear Indicator letters (TWI) are molded on sidewall to aid in locating wear bar.	Any tread is worn even to height of tread wear indicator (1/16 in. (1.59 mm) or less). Any cut, gouge, or crack that extends to the cord body or any bulges. Tires exhibit excessive inner and outer wear or balance.

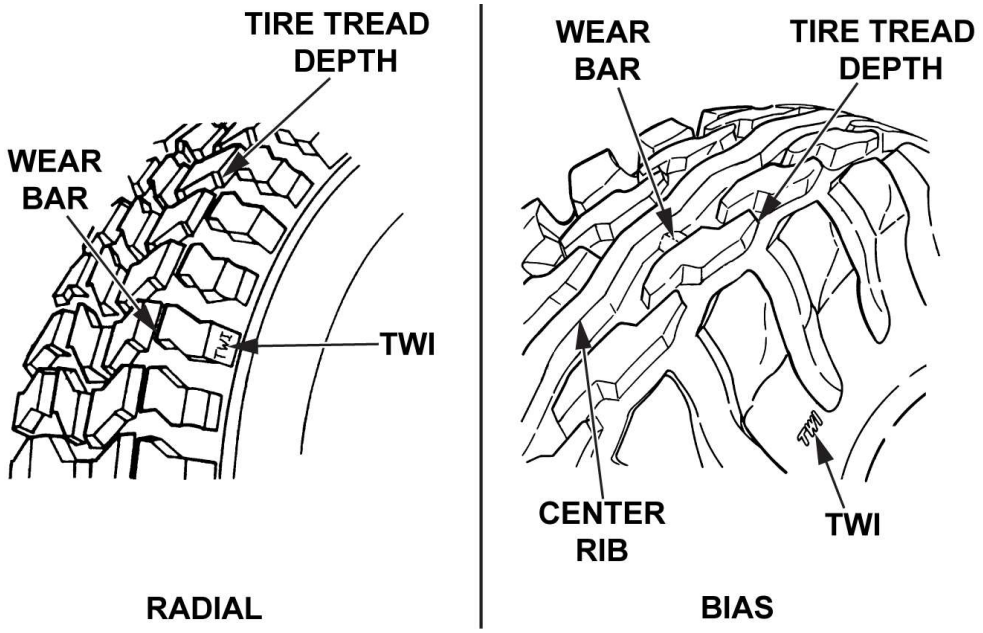


Figure 1. Tire Tread.

			NOTE Wear bars are not evident on new or very low mileage tires. Wear bars will appear after usual use.	
			b. Check for missing or loose wheel stud nuts and lug nuts. Tighten loose lug nuts and have field maintenance tighten stud nuts and lug nuts to proper torque.	Any wheel stud nut or lug nut is missing or broken.

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

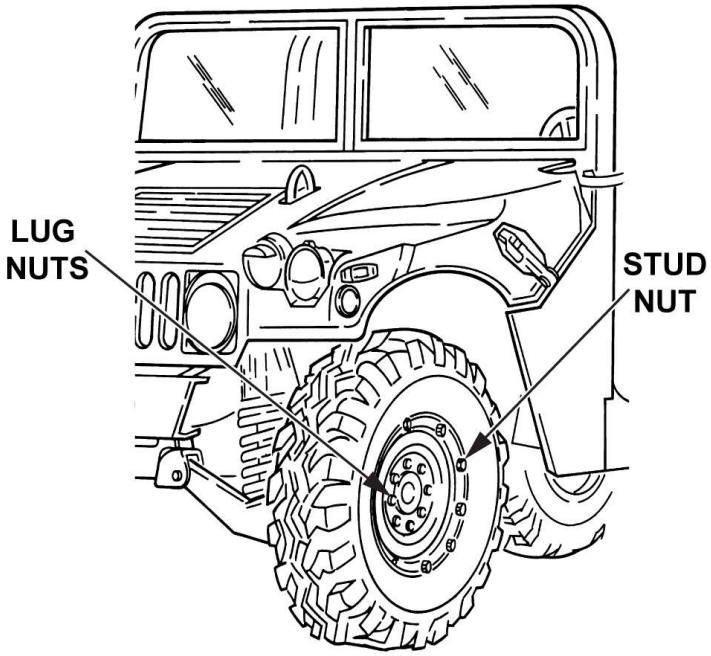
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			 *Figure 2. Tire Nuts.*	
			WARNING Do not exceed 30 psi (207 kPa) cold radial tire inflation pressure. Overinflation of tire may result in damage to equipment and injury or death to personnel. **NOTE** • Perform Step c for bias tires only. • Check tire size designator on sidewall for tire construction identification: 36x12.50-16.5 LT-Bias ply. c. Gauge tires for correct air pressure using tire inflation gauge. Adjust as necessary. Refer to Table 24. Tire Pressure (Bias Tires) (WP 0002) for vehicle tire pressures.	

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			WARNING Do not exceed 50 psi (345 kPa) cold radial tire inflation pressure. Overinflation of tire may result in damage to equipment and injury or death to personnel. **NOTE** • Perform Step d for radial tires only. • Check tire size designator on sidewall for tire construction identification: 37x12.50R- 16.5 LT-Radial. d. Gauge tires for correct air pressure using tire inflation gauge. Adjust as necessary. Refer to Table 25. Tire Pressure (Radial Tire) (WP 0002) for vehicle tire pressures.	
3.	Weekly	Exhaust System	**DRIVER** Check exhaust system for security of all mounts, tightness of clamps and bolts, rusted conditions, damaged pipes, and any indication of an exhaust leak.	Any mounts are broken, pipes are rusted through or broken, or any indication of an exhaust leak.
4.	Weekly	Shock Absorbers	**DRIVER** a. Visually inspect shock absorbers for leaks, damage, and security of mounting.	Class III leakage or damage is evident; mounting damaged or loose.
			b. Check that coil spring is centered on shock absorber.	Coil spring has shifted off center.

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

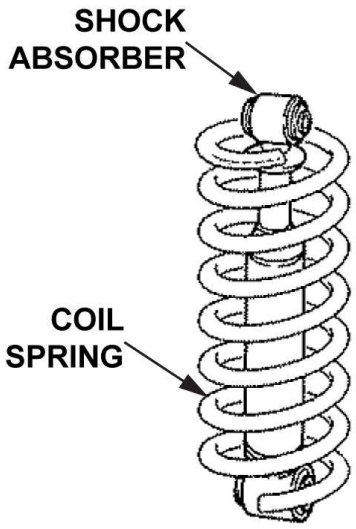
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			 *Figure 3. Shock Absorber.*	
5.	Weekly	Doors and Windows	**DRIVER** Check operation of doors and windows.	
6.	Weekly	Tailgate	**DRIVER** Check operation of tailgate. Check that tailgate latches securely and operates properly.	
7	Weekly	Armament Carriers (M966, M966A1, M1045, M1045A1, M1045A2, M1046, M1046A1, M1025, M1025A1, M1025A2/R1, M1026, M1026A1, M1043, M1043A1, M1043A2, M1044, M1044A1, M1121)	**DRIVER** **(TOW and Armament Carriers)** a. Inspect cargo shell door for bends, warping, binding, and ease of operation. Inspect latching mechanisms for proper operation. Inspect lift cylinders for bends and security of mounting.	Lift cylinders or latches bent, warped, binding, or inoperative.

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			b. Inspect retaining wire rope for damage and security of mounting.	Retaining wire rope is damaged, missing, or not secured.
			c. Inspect strap assembly for frays and security of mounting.	
			d. Check cargo shell door for alignment as follows:	
			1. Insert a piece of paper between door seal and door opening.	
			2. With door closed, seal should offer resistance to pulling out paper. If door seal does not offer resistance, adjustment is required.	
8.	Weekly	Patient Compartment (M996, M996A1, M997, M997A1, M997A2)	**DRIVER** **WARNING** Be sure cables are securely connected to steps before using. Failure to comply may result in injury to personnel.	
			a. Inspect step assembly.	
			b. Check operation of step latch. Latch should securely engage step striker to secure step assembly in stowed position.	
			c. Check operation of attendant seat and rail. Inspect seat and rail for damage, missing components, and binding during operation. Ensure proper adjustment and operation of seatbelt.	Seatbelt, attendant seat, or rail is broken or missing.
			d. (M996, M996A1 only) Check operation of ambulatory patient seat. Check for damage or missing components.	

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			e. (M996, M996A1 only) Inspect handhold straps and footman loops for security, damage, or missing components.	
9.	Weekly	Front Arctic Heater and/or Rear Troop/Cargo Heater/Ambulance Patient Compartment Heater (M996, M966A1, M996, M996A1, M997, M997A1, M997A2)	**DRIVER (Vehicle w/Arctic Winterization Kit and/or Troop/Cargo Winterization Kit)**	
			a. Check heater and heater controls for proper operation.	Heater inoperable and mission requires heater.
			b. Check fuel lines and fittings for leaks, cracks, or breaks.	Any fuel leakage is evident and mission requires heater.
			c. Check electrical cables and connections for security of mounting, and missing components.	Frayed or broken wires.
			d. Check heater exhaust pipe for damage, security of mounting, and missing components.	Heater exhaust damaged or components missing.
			e. Check fuel filter for leaks or damage.	Any fuel leak evident.
10.	Weekly	Crew Door (M966, M966A1, M996, M996A1, M997, M997A1, M997A2, M1025, M1025A1, M1025A2/R1, M1026, M1026A1, M1121)	**DRIVER**	
			a. Check crew door assembly for visible cracks that would make door unserviceable or unable to secure properly.	Visible cracks, or door does not secure properly.

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			b. Check crew door assembly latch, hinges, and door handle for damage, looseness, or missing parts.	Loose, missing, or unserviceable parts.
11.	Weekly	Air Cleaner	**DRIVER** **WARNING**  If NBC (CBRN) exposure is suspected, all air filter media should be handled by personnel wearing protective equipment. Consult your unit NBC (CBRN) officer or NBC (CBRN) NCO for appropriate handling or disposal instructions.	
			Check air cleaner weathercap, air cleaner assembly, air intake hose, and air horn for security of mounting and damage.	Damage to air cleaner weathercap, body, air intake hose, or mounting allows unfiltered air to enter engine.
12.	Weekly	Alternator Brackets	**DRIVER** Visually check power steering and alternator brackets for cracks, damage, or loose bolts.	Bracket is cracked or bolts damaged, loose, or missing.
13.	Weekly	Cooling System	**DRIVER** a. Check fan and fan pulley for damage.	Fan blade or pulley is bent, broken, cracked, or loose.
			b. Check radiator for damaged fins, leaks, clogged or damaged hoses to and from engine.	Class III leakage evident.

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			c. Check support mounts, side brackets, and side bracket weldments on radiator for missing hardware, damage, or broken welds.	Support mounts broken, damaged, or missing hardware. Side brackets damaged of two or more weldments broken, allowing movement of radiator.

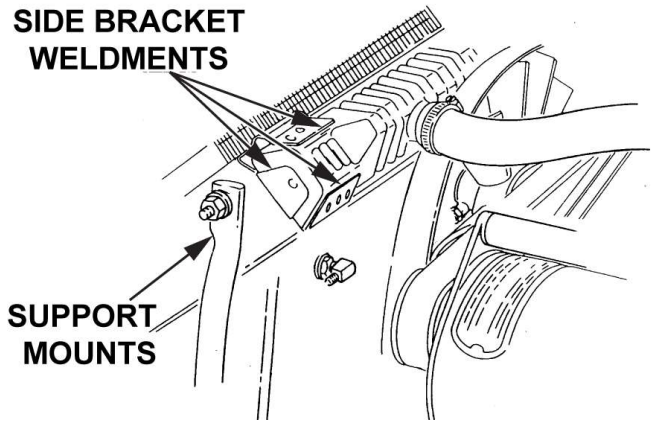


Figure 4. Cooling System Side Bracket and Support Mounts.

			NOTE Belt flutter at idle is normal in HMMWV belt drive system. It does not necessarily indicate that belts are loose. Belt flutter should disappear as engine is accelerated.	
			d. (All models except A2, R1, and M1123 only) Check for loose, missing, broken, cracked, or frayed drivebelts. Notify supervisor is loose drivebelts are suspected.	Any drivebelt is missing, broken, or frayed (fibers exposed). Belt fiber has more than one crack 1/8 in. (3.18 mm) in depth or 50% of total belt thickness or frays more than 2 in. (5.1 cm) long.

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			NOTE Belt flutter at idle is normal in HMMWV belt drive system. It does not necessarily indicate that belts are loose. Belt flutter should disappear as engine is accelerated.	
			e. (A2, R1, and M1123 models only) Check for looseness, misalignment, breaks, splits, or frayed serpentine belt.	Serpentine belt is loose, misaligned (off one or more grooves on any pulley), breaks, or splits in outer surface, frays on either edge if cord is broken.
			f. Check fan shroud for damage.	Fan shroud broken, cracked, or loose that would affect its intended function or mounting.
			g. Check engine oil cooler and hoses for damage and leaks.	Class III leak evident.

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
14.	Weekly	Batteries	**DRIVER** **WARNING**  Do not smoke, have open flames, or make sparks around batteries, especially if caps are off. Batteries can explode and may cause injury or death. **WARNING**  Remove all jewelry such as rings, identification tags, bracelets, etc. If jewelry contacts battery terminal, a direct short may result, causing severe injury to personnel, or damage to equipment.	
			a. Remove commander seat and check batteries for damaged casing, terminal posts, and security of mounting. Notify field maintenance if any defects are found.	One or more batteries missing, unserviceable, or leaking; terminal or cables loose, corroded, or holddowns not secure or missing.
			b. Electrolyte should be filled to level/split ring in the battery filler opening (vent). If fluid is low, fill with distilled water (WP 0107, Item 12) to split ring. If fluid is gassing (boiling), notify field maintenance.	

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			NOTE Water in battery box can be caused by debris plugging battery box drain holes. If water is present, clean debris from battery box drain holes.	
			c. Check battery box for corrosion or water on bottom of battery tray.	
15.	Weekly	Weapon Station (M966, M966A1, M1045, M1045A1, M1045A2, M1046, M1046A1, M1025, M1025A1, M1025A2/R1, M1026, M1026A1, M1043, M1043A1, M1043A2, M1044, M1044A1, M1121)	**DRIVER** a. Inspect weapon station hatch and hinge for bends, cracks, warped, or damaged areas.	Hatch or hinges inoperable.
			b. Inspect brake handle for ease of operation.	Brake handle does not operate.
			c. Inspect gunner's sling for tears, frays, or damaged hook.	Sling is torn, shows wear, or hook is damaged.
16.	Weekly	TOW Missile Rack (M966, M966A1, M1045, M1045A1, M1045A2, M1046, M1046A1, M1121)	**DRIVER** a. Inspect TOW missile rack latch assembly and support braces for presence and ease of operation.	Rack will not support or stow six TOW missiles.
			b. Inspect straps for tears and frays.	

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
17.	Weekly	Floorboard	**DRIVER** Check for presence of TU adapter.	TU adapter missing or damaged.
18.	Weekly	Gunner's Platform	**DRIVER** Inspect gunner's platform riser for binding, ease of operation, or missing lockpins.	Gunner's platform cannot be adjusted or lockpins are missing.
19.	Weekly	Tiedowns	**DRIVER** a. Inspect stored equipment footman loops for presence and security of mounting. Inspect straps for tears or frays. b. Inspect stowage brackets, footman loops, and tiedowns for security of mounting, damage, and missing components. c. Inspect all tiedown strap assemblies for proper operation, frays, damage, cleanliness, and security of mounting.	
20.	Weekly	Bulkhead Doors (M996, M996A1, M997, M997A1, M997A2)	**DRIVER** Check operation of bulkhead doors. Door should securely latch when closed or fully opened. Inspect all door components for damage, adjustment, or missing component.	
21.	Weekly	Environment Control System (M996, M996A1, M997, M997A1, M997A2)	**DRIVER** a. Check security of A/C heater control box mounting. b. Check Heating, Ventilation and Air Conditioning (HVAC) filter (WP 0100) for dirt or debris. Clean filters of dirt and debris that would restrict air flow.	

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
			c. Inspect exposed HVAC system ducts, hoses, fitting lines, vents, and mounting hardware for damage, leaks, missing components, and security of mounting.	A/C inoperable or any leaks evident.
			d. Inspect exposed wiring harnesses for breaks, frayed insulation, loose or damaged connectors, and loose, damaged, or missing mounting hardware.	Wiring harness broken, frayed, or damaged. Mounting hardware missing.
22.	Weekly	NBC (CBRN) System (M996, M996A1, M997, M997A1, M997A2)	**DRIVER** a. Inspect exposed NBC (CBRN) equipment for security of mounting, damage, and missing components. b. Inspect NBC (CBRN) stowage compartment door seals, hinges, latches, and straps for proper operation, damage, and missing components. c. Inspect M13 patient protective mask, hoses, and end connectors for damage, leaks, or missing components. Inspect adapter for stripped threads or other damage.	
23.	Weekly	Canvas and Bows (M998, M998A1, M1038, M1038A1)	**DRIVER** **(W/Soft Top Enclosure)** a. Inspect cargo cover for tears, punctures, and ripped seams. b. Inspect windows for cracks and scratches. c. Inspect bows and mounting brackets for damage and security of mounting. d. Inspect footman loops and straps for tears, frays, and security of mounting.	

Table 1. Preventive Maintenance Checks and Services - Weekly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
24.	Weekly	Tow Pintle	**DRIVER** **WARNING** If tow pintle is damaged, do not tow trailer. Failure to comply may result in damage to equipment or injury to personnel. Check pintle hook for looseness, damaged locking mechanism, and presence of cotter pin.	
25.	Weekly	Tow Hooks	**DRIVER** Check presence and condition of tow hooks (front and rear).	
26.	Weekly	Trailer Electrical Connector	**DRIVER** Check trailer electrical connector for damage.	
27.	Weekly	Parking Brake	**DRIVER** Check combination service/parking brake assemblies; inspect parking brake for obstruction of actuating lever or broken or missing spring.	Actuating lever or spring is broken or missing.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) - MONTHLY

INITIAL SETUP:

Materials/Parts
Lubricant (WP 0107, Item 31)

References
WP 0027

Table 1. Preventive Maintenance Checks and Services - Monthly.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1.	Monthly	Corrosion	**DRIVER** Visually inspect vehicle body for indication of corrosion, cracks, and/or breaks.	Any corroded-through condition, cracks or breaks that would affect vehicle operation.
2.	Monthly	Tailgate	**DRIVER** Check tailgate for corroded-through condition and/or damage. If tailgate does not latch securely or is damaged, notify field maintenance.	Any corroded-through condition, or damage that would affect vehicle operation.
3.	Monthly	Red Cross Plate (M996, M996A1, M997, M997A1, M997A2)	**DRIVER** a. Check cross marking latches and hinges for proper operation, security of mounting, damage, or missing components. b. Inspect stowage component door hinge, seal, and latch for proper operation, damage, or missing components.	
4.	Monthly	Shelter Mount Kit (M1037, M1042, M1097, M1097A1, M1097A2, M1097R1, M1123)	**DRIVER** Inspect shelter mounting bracket for security of mounting and loose or missing bolts.	Any mounting bolt loose or missing.

Table 1. Preventive Maintenance Checks and Services - Monthly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
5.	Monthly	Winch	**DRIVER (Vehicles W/Winch)** **WARNING** Do not operate winch with damaged cable. Failure to comply may result in damage to equipment or injury to personnel. a. Check winch controls for proper operation. **NOTE** Pull out cable leaving four windings on spool. b. Check winch cable for kinks, frays, or breaks. c. Inspect tree saver strap for cuts and abrasions. If red safety thread is visible in main body of strap, notify field maintenance for replacement of strap. d. If it is known strap has been overloaded, notify field maintenance for replacement of strap. e. Wrap winch cable (WP 0027).	
6.	Monthly	Troop Seats (M998, M998A1, M1038, M1038A1)	**DRIVER (W/Troop Seat Kit)** a. Inspect troop seats for missing or damaged lockpins. b. Inspect troop seats and backrest for security of mounting.	Mission requires troop seats and troop seats are inoperative or damaged.

Table 1. Preventive Maintenance Checks and Services - Monthly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:

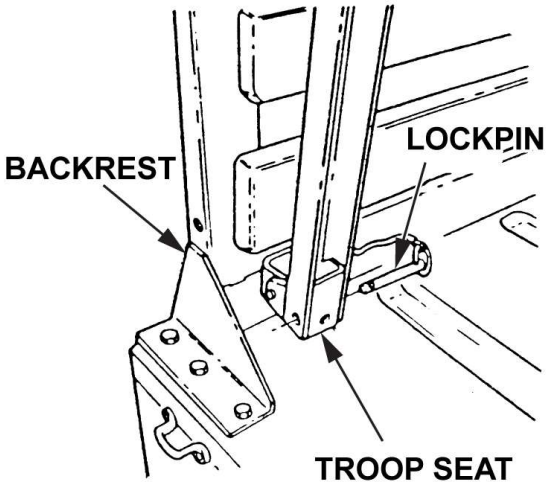


Figure 1. Troop Seats.

			c. Inspect troop seat straps for frays or damage.	Troop seat straps are frayed or damaged.
7.	Monthly	TOW Power Cable (M966, M1025, M1046)	**DRIVER (Serial Numbers 19,410 and Below)** Inspect TOW power cable at the point where it exits the battery box. Chafing of the nylon braid that covers the cable is acceptable. If there is evidence that the wire inside is exposed, notify field maintenance.	

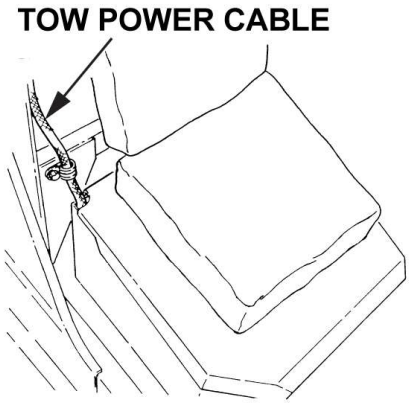


Figure 2. TOW Power Cable.

Table 1. Preventive Maintenance Checks and Services - Monthly - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
8.	Monthly	Zippers	**DRIVER** a. Check canvas top and door zippers for corrosion and/or damage. b. Clean zippers with toothbrush. Apply interlock lubricant (WP 0107, Item 31) to canvas top and door zippers.	
9.	Monthly	Skid Plates	**DRIVER (Vehicles Equipped W/Skid Plate)** a. Inspect skid plate and shield for bends, breaks, or cracks. b. Inspect shields for loose fasteners, or damaged or missing components. Tighten loose fasteners, or replace damaged or missing components.	

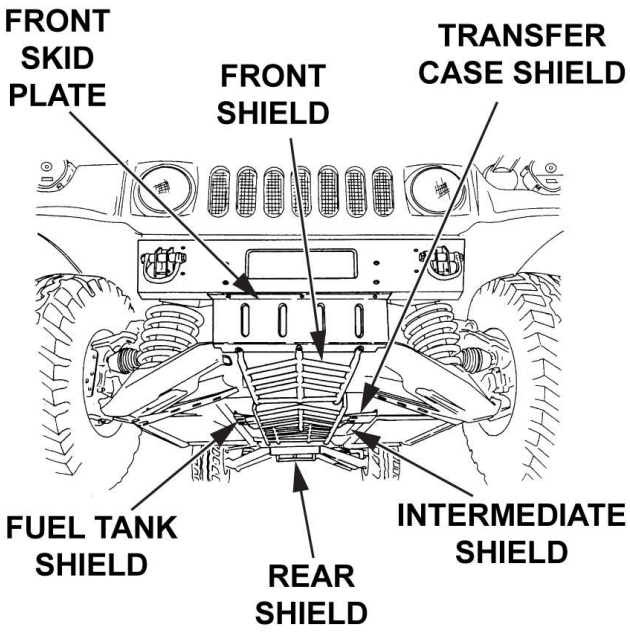


Figure 3. Skid Plates.

END OF WORK PACKAGE