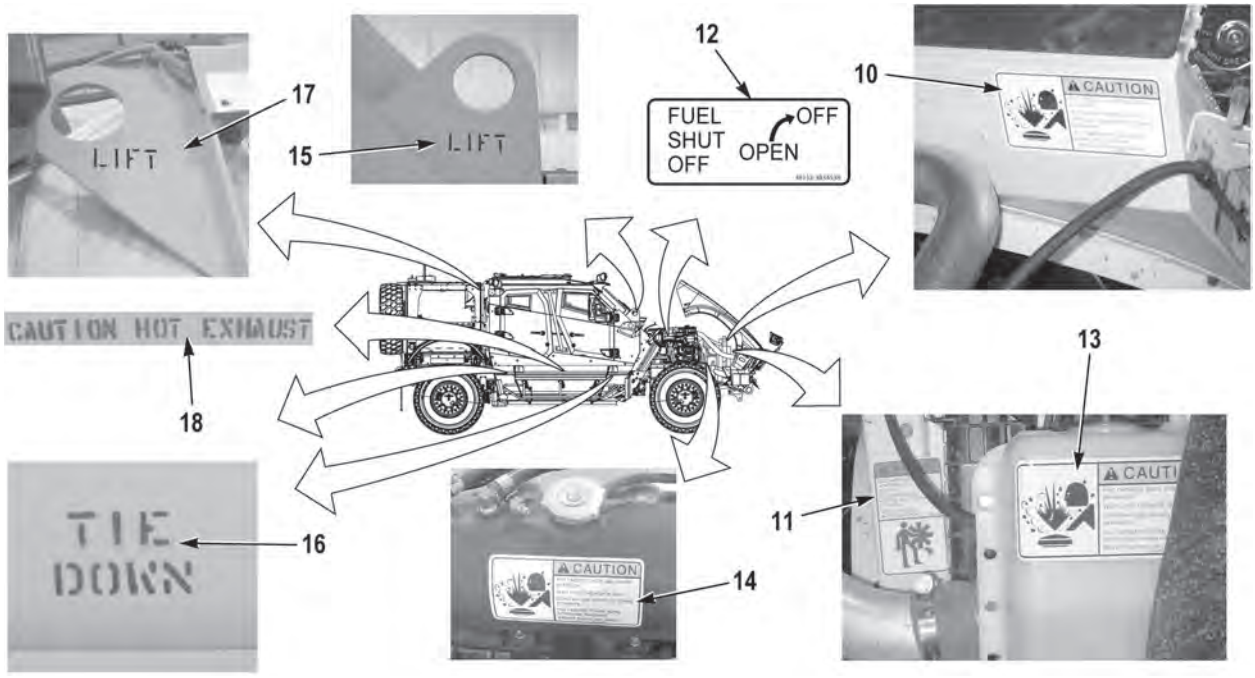


Figure 1. Data Plates, Decals, and Stencils (sheet 2 of 5).

Data Plate Number	Data Plate Description
10	Label, CAUTION, RADIATOR FLUID
11	Label, WARNING, FAN
12	Label, FUEL SHUT OFF
13	Label, CAUTION, RADIATOR FLUID (coolant overflow reservoir)
14	Label, CAUTION, RADIATOR FLUID (coolant surge tank)
15	Stencil, LIFT
16	Stencil, TIE DOWN
17	Stencil, LIFT
18	Stencil, CAUTION HOT EXHAUST

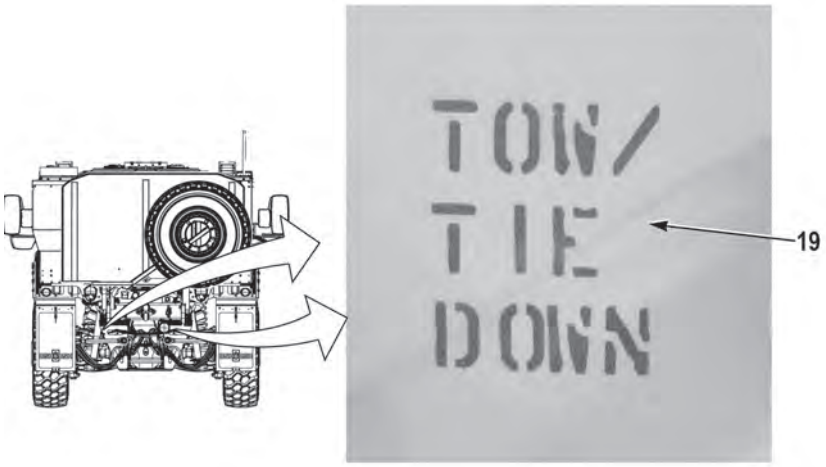


Figure 1. Data Plates, Decals, and Stencils (sheet 3 of 5).

Data Plate Number	Data Plate Description
19	Stencil, TOW/TIE DOWN

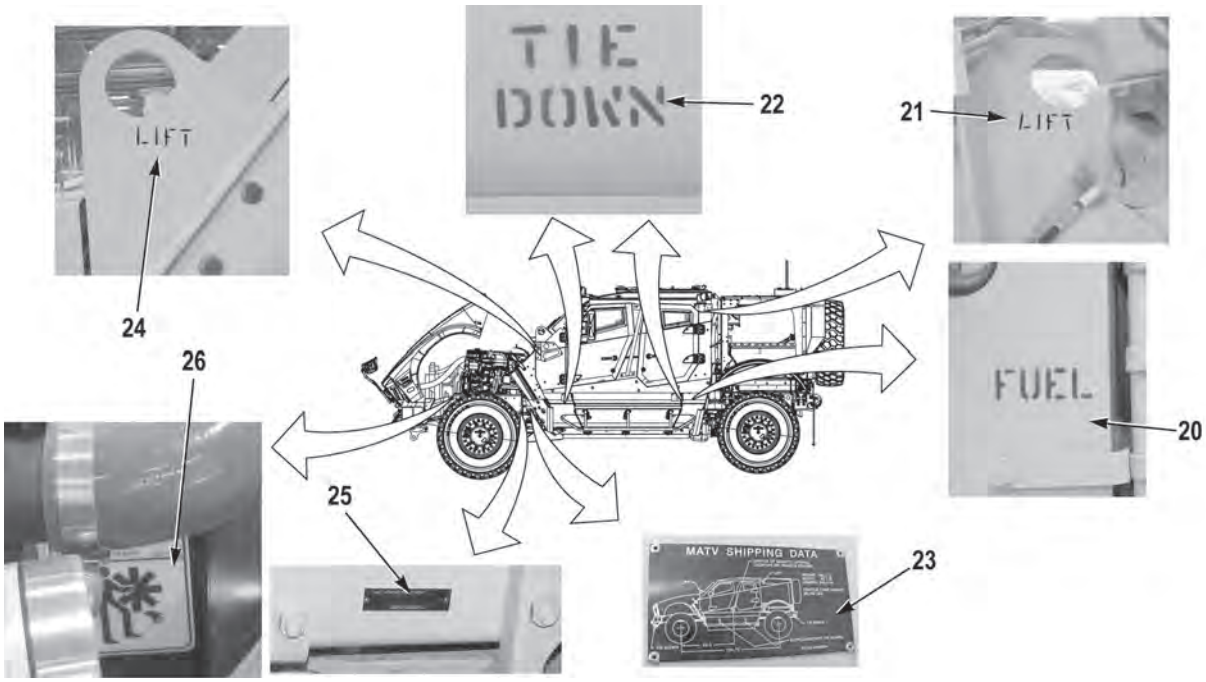


Figure 1. Data Plates, Decals, and Stencils (sheet 4 of 5).

Data Plate Number	Data Plate Description
20	Stencil, FUEL
21	Stencil, LIFT
22	Stencil, TIE DOWN
23	Plate, MATV SHIPPING DATA
24	Stencil, LIFT
25	Plate, VIN NUMBER
26	Label, FAN

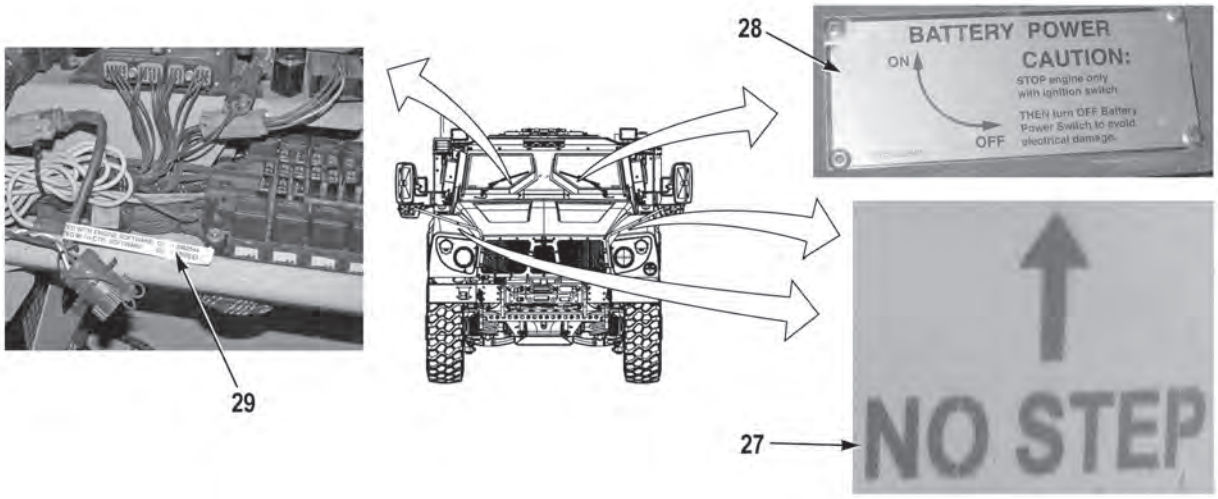


Figure 1. Data Plates, Decals, and Stencils (sheet 5 of 5).

Data Plate Number	Data Plate Description
27	Stencil, NO STEP
28	Plate, CAUTION, BATTERY DISCONNECT (inside vehicle)
29	Label, Info, Software Version (M1240A1) (located inside dash cover)

END OF WORK PACKAGE

STOWAGE GUIDE (M1240/M1240A1)

This work package identifies the stowage location for the BII and COEI equipment of the M1240 and M1240A1.

CAUTION

Use care when stowing BII and COEI to ensure items are not broken or deformed. Failure to comply may result in damage to equipment.

Table 1. Equipment Stowed in Capsule.

Description	NSN	Quantity
Cutter, Strap	2590-01-576-2424	5
Fire Extinguisher	4210-01-577-3170	2

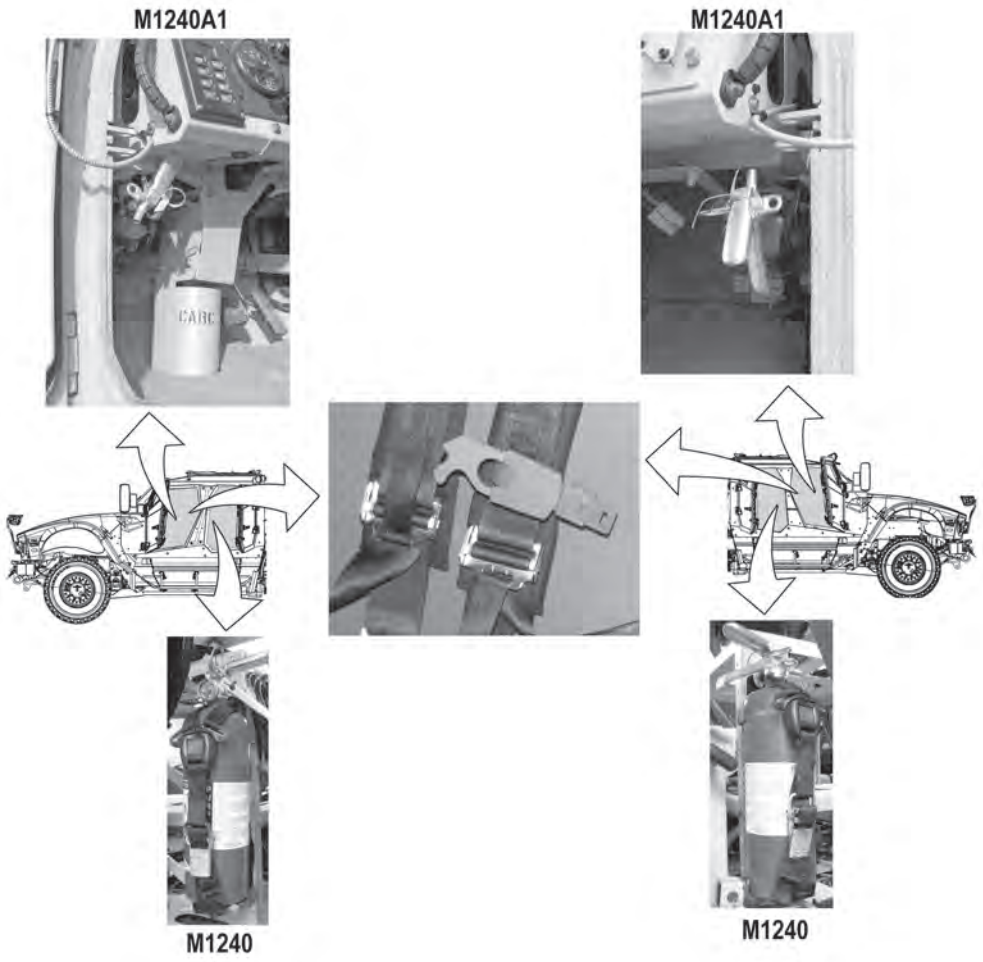


Table 2. Equipment Stowed in Driver Side Fender Box.

Description	NSN	Quantity
Bag, Stowage	8105-01-439-6178	2
Bar, Pinch, 26 in.	5120-00-224-1372	1
Chain Assembly, Tire (M1240A1)	2540-01-593-1152	2
Chain Assembly, Tire (M1240)	2540-01-492-2489	4
Chock, Wheel	2540-01-500-6119	2
Combination Tool, Hand, Set	5120-01-416-8568	1
a. Axe, Single Bit	5110-01-416-7827	1
b. Bag, Carrying, Combination Tool	5140-01-416-8569	1
c. Broad Pick Attachment	5120-01-416-8572	1
d. Lock Pin Set (Set of 12)	5120-01-416-8575	1
e. Mattock Attachment	5120-01-416-8571	1
f. Pick Attachment	5120-01-416-8573	1
g. Rake-Hoe Attachment	5120-01-416-8577	1
h. Rake-Hoe Fastener	5120-01-416-8574	1
i. Sheath, Ax Head	5110-01-416-7830	1
j. Shovel Attachment	5120-01-416-8570	1
Controller, Winch	6110-01-575-8471	1
Flashlight	6230-00-264-8261	2
Hammer, Sledge	5120-00-243-2957	1
Jack, Hydraulic, 20 Ton	5120-01-351-2074	1
Lubricating Gun, Hand	4930-01-480-9063	1
Padlock (Secures Fender Box)	5340-00-158-3807	1
Panel, Marker	8345-00-174-6865	2
Shackle, Screw Pin, 1-1/4 in.	2510-01-321-1221	1
Spout, Flexible, Can	7140-00-177-6154	1
Chain, Recovery, ASSY	4010-01-577-4959	1
Shackle	4030-01-504-7788	2

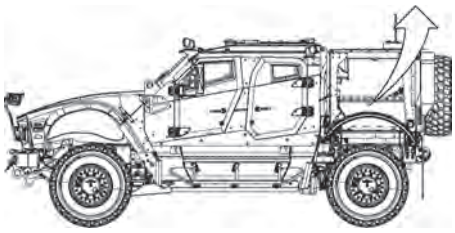


Table 3. Equipment Stowed In Passenger Side Fender Box.

Description	NSN	Quantity
Adapter, Grease Gun	4930-00-204-2550	1
Adapter, Jack (M1240A1)	4910-01-600-4974	1
Bag, Assembly, Pamphlet	8105-01-353-2497	1
Bag, Tool	5140-00-473-6256	1
Bar, Emergency	2590-01-550-2593	1
Binder, Loose-Leaf	7510-00-889-3494	1
Brush, Wire	7920-00-269-1259	1
Cable Assy, NATO Slave	6150-01-577-2785	1
Equipment Record Folder	7510-01-065-0166	1
Extension, Socket, 10.0 x 1/2” Drive	5120-00-022-9797	1
Extension, Socket, 5.0 x 1/2” Drive	5120-01-335-1050	1
First Aid Kit, General Purpose	6545-00-922-1200	2
Fitting, Lubrication, Straight	4730-00-050-4208	1
Funnel, Steel, Flex Mount	7240-00-559-7364	1
Hammer, Ball Peen, 32 oz.	5120-00-061-8546	1
Handle, Sliding Tee, 3/4 in. Drive	5120-01-242-7218	1
Handle, Socket, Wrench	5120-00-230-6385	1
Inflator-Gauge, Pneumatic Tire, 18 ft.	4910-01-038-2820	1
Key Set, Socket Head	5120-01-335-1508	1
Lug Nut Wrench Extension, 8 in.	5120-00-243-7328	1
Padlock (Secures Fender Box)	5340-00-158-3807	1
Pliers, Side Cutting, 8 in.	5120-00-239-8251	1
Pliers, Slip Joint, 8 in.	5120-00-223-7397	1
Screwdriver, Phillips #3, 6 in.	5120-01-398-8053	1
Screwdriver, Standard, 10 in.	5120-00-293-3309	1
Socket, 10MM X 1/2 in. Drive	5120-01-349-1042	1
Socket, 13MM X 1/2 in. Drive	5120-01-398-8033	1
Socket, 14MM X 1/2 in. Drive	5120-01-398-7943	1
Socket, 16MM X 1/2 in. Drive	5120-01-348-9035	1
Socket, 18MM X 1/2 in. Drive	5120-01-348-9037	1
Socket, 19MM X 1/2 in. Drive	5120-01-398-7919	1
Socket Wrench, 1/2 in. Drive, 1/2 in. 6 pt	5120-01-398-7937	1
Socket Wrench, 1/2 in. Drive, 15/16 in. 6 pt, Deep Well, Impact	5130-00-714-0600	1
Socket Wrench, 1/2 in. Drive, 3/4 in.	5120-00-189-7985	1
Socket Wrench, 1/2 in. Drive, 5/8 in.	5120-00-189-7946	1
Socket Wrench, 1/2 in. Drive, 7/16 in.	5120-01-366-8399	1

Table 3. Equipment Stowed In Passenger Side Fender Box. (Continued)

Description	NSN	Quantity
Socket Wrench, 1/2 in. Drive, 7/8 in.	5120-00-189-7934	1
Socket Wrench, 1/2 in. Drive, 9/16 in.	5120-00-189-7932	1
Socket, Lug Nut, 33MM, Impact 3/4 in. Drive	5130-01-400-0196	1
Strap, Nylon (M1240A1 only)	5340-01-599-0234	1
Strap, Rubber	5340-00-340-0980	3
Technical Manual, Operators	TM 9-2355-335-10	1
Adapter, HMMWV	2530-01-520-6537	2
Harness, Intervehicular, 24 V	5995-00-772-8813	1
Hose ASSY, Intervehicular	4720-01-582-5006	1
Hose ASSY, Intervehicular	4720-01-582-5003	1
Pin, Quick Release	5310-01-490-7325	4
Pin, Straight, Headed	5315-01-520-6541	2
Pin, Straight, Headed	5315-01-500-5324	2
Pin, Straight, Headed	5315-01-228-0416	2
Warning Kit, Highway	9905-01-480-0644	1
Wrench, Adjustable, 12 in.	5120-00-264-3796	1
Wrench, Adjustable, 8 in.	5120-00-240-5328	1
Wrench, Plier, Curve	5120-00-494-1911	1

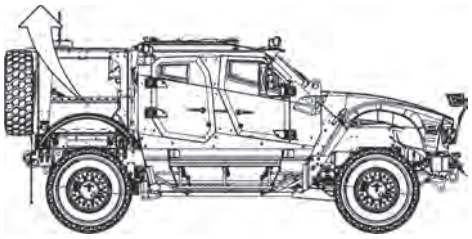


Table 4. Equipment Stowed in Rear Deck.

Description	NSN	Quantity
Blanket, Fire	4210-01-324-2734	2
Can, Military, Fuel, Tan	7240-01-337-5268	2
Can, Military, Water, Plastic	7240-00-089-3827	2
Plate, Jack Support	4910-01-577-1432	1
Ring Assembly, Tie Down	5340-01-582-5124	4
Strap, Tie Down	5340-01-577-2673	2

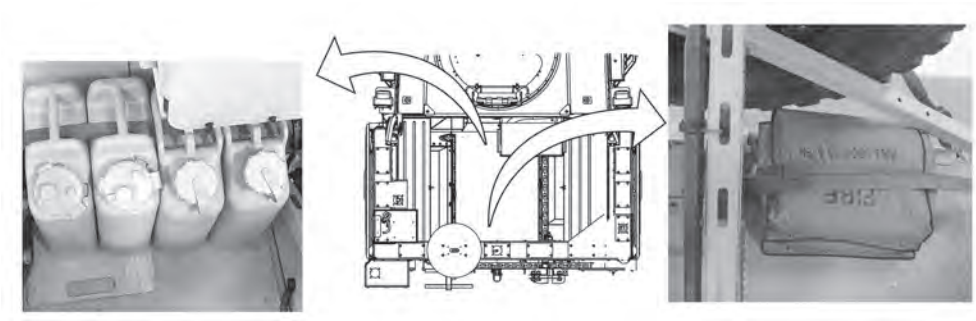


Table 5. Equipment Stowed on Front Tie Down Eyes.

Description	NSN	Quantity
Shackle	4030-01-187-0964	2

Table 6. Equipment Stowed on Rear Tie Down Eyes.

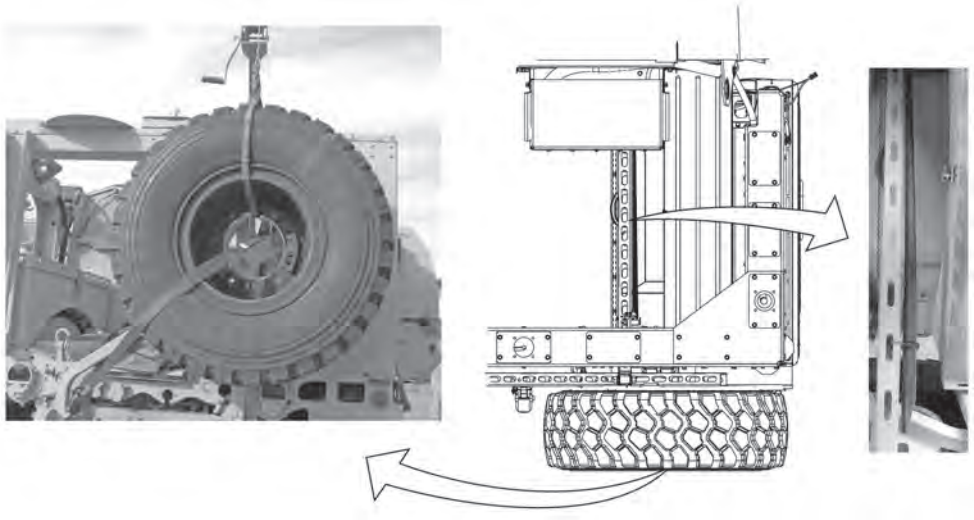
Description	NSN	Quantity
Shackle	4030-01-187-0964	2

Table 7. Equipment Stowed on Spare Tire Carrier.

Description	NSN	Quantity
Crowbar 58 in. (147.3 cm)	5120-00-224-1390	1
Instl, Wire Rope (Located on Spare Tire Winch)	4010-01-153-9403	1
Nut, Self-Locking (Located on Spare Tire Winch)	5310-01-288-1116	3
Screw, Cap, Hex (Located on Spare Tire Winch)	5306-01-287-5714	3

Table 7. Equipment Stowed on Spare Tire Carrier. (Continued)

Strap, Nylon (Located on Spare Tire), 60 in. 395/85R20	5340-01-599-0238	1
Strap, Tie Down (Secures Spare Tire), 70 in. 16.00R20	5340-01-577-2673	1
Winch Bracket (Installed in Spare Tire Carrier)	2590-01-577-3992	1
Winch, Drum, Hand Operated (Installed on Winch Bracket)	3950-01-154-6794	1



END OF WORK PACKAGE

STOWAGE GUIDE (M1245)

This work package identifies the stowage location for the BII equipment of the M-ATV SOCOM Variant.

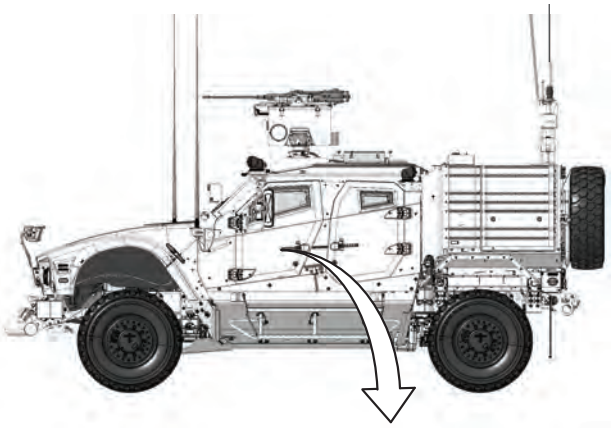


Table 1. Equipment Stowed in Cab.

Description (Part Number)	NSN	Qty
Cutter, Strap (22-01943)	7510-01-065-0166	5
Extinguisher, Fire, Portable, CO2, 2.5 lbs. (3828332)	4210-01-577-3170	2

CAUTION

Use care when stowing BII and COEI to ensure items are not broken or deformed. Failure to comply may result in damage to equipment.

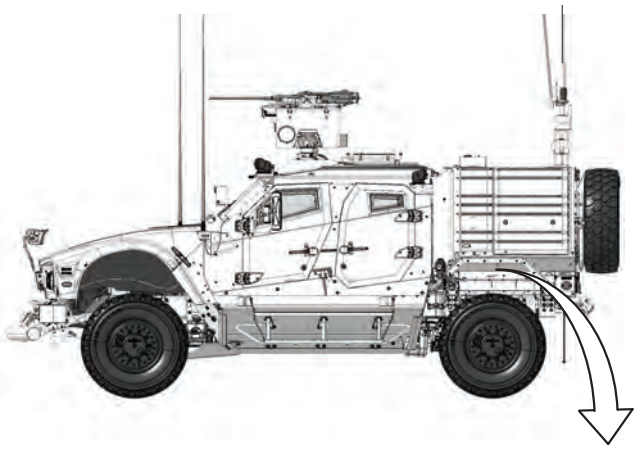


Table 2. Equipment Stowed Driver Side Fender Box.

Description	NSN/Part Number	Qty
Padlock W-Chain (1362720)	5340-00-158-3807	1
Panel Marker Signal, Ground to Air, Red/Yellow (3819270)	8345-00-174-6865	2
Shackle, Screw Pin (3819275)	2510-01-321-1221	1
Tow Bar, Kit, M-ATV (3829488)	2540-01-577-2423	1
a. Link, Adaptor, Towbar (3834756)	2540-01-577-3987	2
b. Hose ASSY, Intervehicular, Blue (3410504)	4720-01-582-5006	1
c. Hose ASSY, Intervehicular, Red (3410503)	5120-00-240-5003	1
d. Pin, Assembly (3379668)	5315-01-228-0416	2
e. Pin, 1, 54 x 5.13 Tow Bar (3390992)	4030-01-504-7788	2
f. Pin, Klick, 31 x 2.34 (3406240)	5315-01-490-7325	4
g. Pin, Assembly (3379668)	5315-01-520-6541	2
h. Anchor, Shackle (3442534)	4030-01-504-7788	2
i. Adapter, HMMVV Machining (3406264)	2530-01-520-6537	2
j. Adapter, MTVR, IBIS TEK (3834905)	2540-01-577-3988	2
l. Harness, Intervehicular (64297CX)	5995-00-772-8813	1
m. Chain, Recovery Assy, 62-10 ft. (3829510)	4010-01-577-4959	1

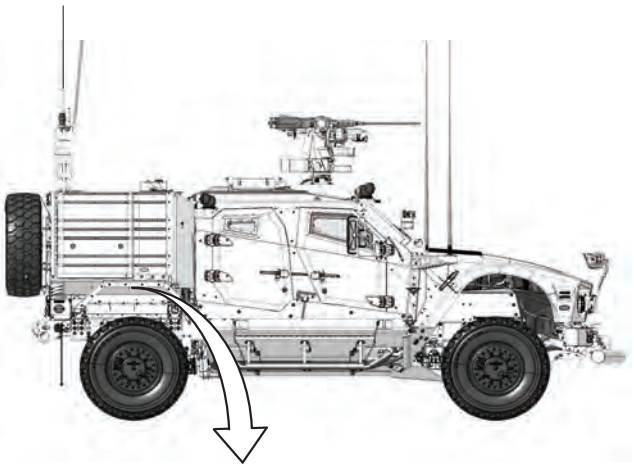


Table 3. Equipment Stowed Passenger Side Fender Box.

Description	NSN/Part Number	Qty
Adapter, Grease Gun (3819243)	4930-00-204-2550	1
Brush, Wire Scratch (3494194)	7920-00-269-1259	1
Cable, Assembly Nato Slave (3827228)	6150-01-577-2785	1
Fitting, Lubrication, Straight (3821396)	4730-00-050-4208	1
Funnel, Steel, Flex Mount (3819260)	7240-00-559-7364	1
Gauge, tire pressure w/hose (3819261)	4910-01-038-2820	1
Lubricating Gun, Hand (1429580)	4930-01-480-9063	1
Padlock W-Chain (1362720)	5340-00-158-3807	1
Spout, Can, Flexible w/Filter Screen, 2 1/2 in. OD, 16 in. lg. (1167020)	7240-00-177-6154	1
Strap, Ratchet (3703803)	5340-01-577-2673	2
Tool, Emergency Ingress (3821246)	2590-01-550-2593	1
Winch System, Tackle Block (3825996)	3940-01-577-3646	1

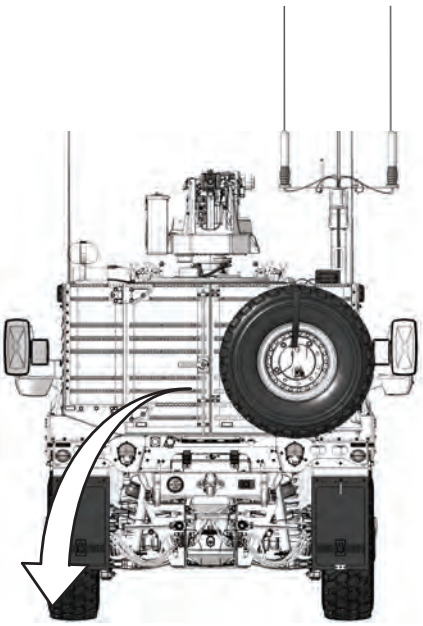


Table 4. Equipment Stowed Rear Deck.

Description	NSN/Part Number	Qty
Bag, Stowage, Pamphlet (1362710)	8105-01-353-2497	1
Bag, Stowage, Pamphlet (3819244)	8105-01-439-6178	1
Bar, Pinch, 26 in. (1362550)	5120-00-224-1372	1
Binder, Loose Leaf, 3 Ring, Green (1362730)	7510-00-889-3494	1
Can, Fuel, Military, Tan (3819249)	7240-01-337-5268	2
Can, Water, Military, Plastic, 5 Gallon, Tan (3819249)	7240-00-089-3827	2
Crowbar, Pinch Point, 59 to 62 in.(1362590)	5120-00-224-1390	1
Fire Blankets (1612440)	4210-01-324-2734	2
First Aid Kit, General Purpose (1728180)	6545-00-922-1200	2
Flashlight MX 991U (3336840)	6545-00-922-1200	2
Folder, Equipment Record, 2.5 in.x 8 in.x 10 in. (in pamphlet bag) (3434387)	7510-01-065-0166	1
Hammer, Hand, Sledge, Double-Faced, 10 lbs. (3819263)	5120-00-243-2957	1
Jack, Hydraulic, Hand, 20 ton (1919670)	5120-01-351-2074	1
Max Tool Kit, Combination Tool, Hand (3252183)	5120-01-416-8568	1
a. Carry Case (595-030)	5140-01-416-8569	1
b. Ax (595-010)	5110-01-416-7827	1

Table 4. Equipment Stowed Rear Deck. (Continued)

Description	NSN/Part Number	Qty
c. Ax Sheath (595-020)	5110-01-416-7830	1
d. Shovel Attachment (595-040)	5120-01-416-8570	1
e. Mattock Attachment (595-050)	5120-01-416-8571	1
f. Pick Attachment (595-060)	5120-01-416-8573	1
g. Broad pick Attachment (595-070)	5120-01-416-8572	1
h. Rake Hoe Attachment (595-080)	5120-01-416-8577	1
i. Rake Hoe Fastener (595-090)	5120-01-416-8574	1
j. Safety Locking Pin (595-999)	5120-01-416-8575	7
Ring, Single Stud (3848524)	5340-01-582-5124	4
Strap, Ratchet (3703803)	5340-01-577-2673	1
Snow Chains (1885700)	2510-01-321-1221	4
Support Plate, Jacking (3819327)	4910-01-577-1432	1
Technical Manual, Operators (3829256)	5340-21-914-1589	1
Winch Remote Control (3851415)	6110-01-575-8471	1
Wire, Rope (66295AX)	4010-01-153-9403	1
a. Winch, Brake (3320108)	3950-01-154-6794	1
b. Winch, Bracket (3838929)	2950-01-577-3992	1
c. Choker, Strap (3841145)	5340-01-577-3586	1
d. Nut, Flg, LKDT (10823-00318)	5310-01-288-1116	3
e. Scr, Flg, Hex (0155849)	5306-01-287-5714	3
Wrench, Bar Socket (3819334)	5120-00-243-2419	1

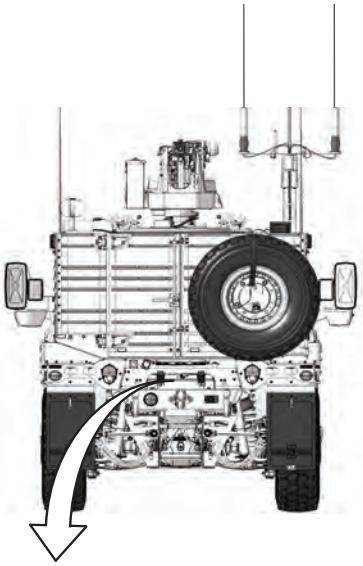


Table 5. Equipment Stowed Rear Tow Bar Stowage.

Description	NSN/Part Number	Qty
k. Tow Bar, Medium-Duty, IBISTEK (3834791)	2540-01-577-3683	1

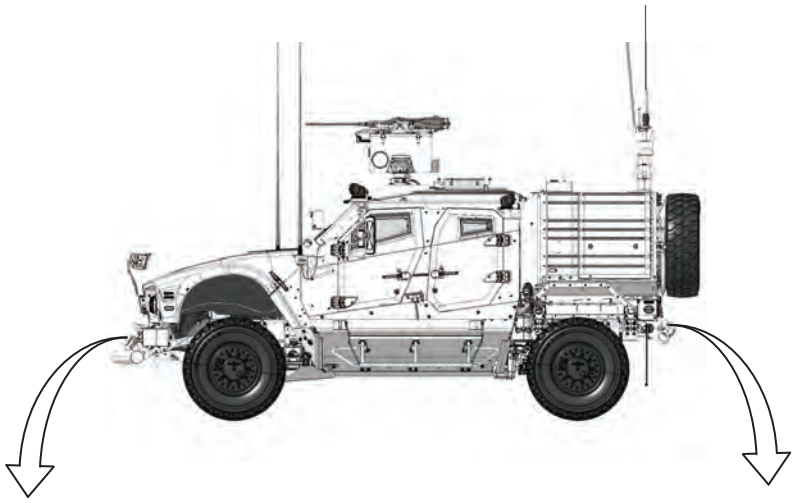


Table 6. Equipment Stowed Front and Rear Tie Down Eye.

Description	NSN/Part Number	Qty
Shackle, Safety Anchor (3F19274)	4030-01-187-0964	4

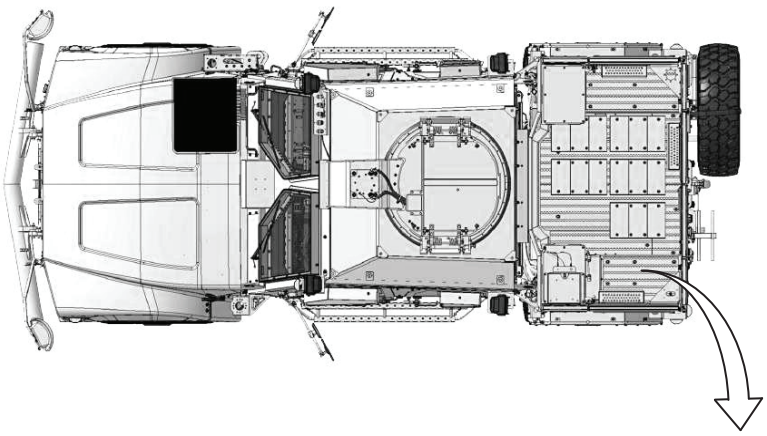


Table 7. Equipment Stowed Top of Driver Fender Stowage Box.

Description	NSN/Part Number	Qty
Chock, Wheel (3819250)	2540-01-500-6119	2
Strap, Rubber (44583AX)	5340-00-340-0980	2

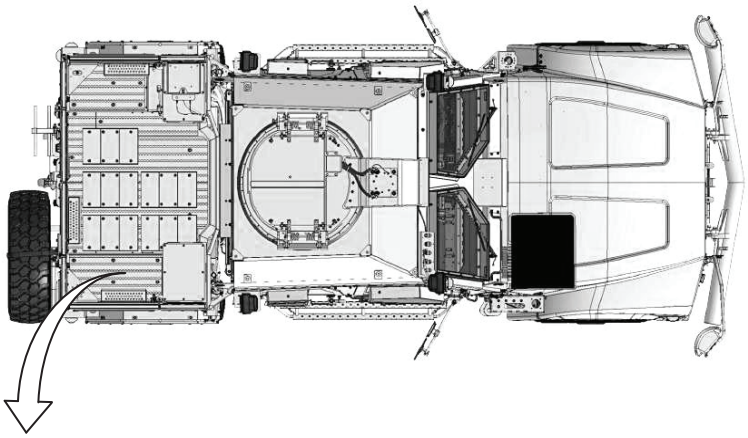


Table 8. Equipment Stowed Top of Passenger Fender Stowage Box.

Description	NSN/Part Number	Qty
Strap, Rubber (44583AX)	5340-00-340-0980	1
Bag, Tool Satchel (3819246)	5140-00-473-6256	1
Extension, Socket Wrench, 5 in. long,1/2 inch Drive (3819253)	5120-01-335-1050	1
Extension, Socket Wrench, 10 in. Long, 1/2 in. Drive (3819254)	5120-00-227-8074	1
Hammer, Hand, Machinist's Ball Peen (3819262)	5120-00-061-8546	1
Handle, Socket Wrench, 1/2 in. Drive (3819264)	5120-00-230-6385	1
Key Set, Socket Head (3819267)	5120-01-335-1508	1
Pliers, Linemans Side Cutting, 8 in. (3819271)	5120-00-239-8251	1
Pliers, Combination, Slip Joint, 8 in. long (3819272)	5120-00-223-7397	1
Screwdriver, Cross Tip, #3, 6 in. long (32746AX)	5120-01-398-8053	1
Screwdriver, Flat Tip, #2, 6 in. long (1350160)	5120-00-293-3309	1
Socket, Socket Wrench, 1/2 inch Drive, 7/16 inch, 12 pt.(3819276)	5120-00-237-0984	1
Socket, Socket Wrench, 1/2 inch Drive, 1/2 inch, 6 pt.(3819314)	5120-01-398-7937	1
Socket, Socket Wrench, 1/2 inch Drive, 9/16 inch, 12 pt.(3819315)	5120-00-189-7932	1
Socket, Socket Wrench, 1/2 inch Drive, 5/8 inch, 12 pt.(3819316)	5120-00-189-7946	1
Socket, Socket Wrench, 1/2 inch Drive, 3/4 inch, 12 pt.(3819317)	5120-00-189-7985	1

Table 8. Equipment Stowed Top of Passenger Fender Stowage Box. (Continued)

Description	NSN/Part Number	Qty
Socket, Socket Wrench, 1/2 inch Drive, 7/8 inch, 12 pt. (3819318)	5120-00-189-7394	1
Socket, Socket Wrench, 1/2 inch Drive, 15/16 inch, 6 pt.(3819320)	5130-00-714-0600	1
Socket, Socket Wrench, 1/2 inch Drive, 10 mm, 6 pt. (3819321)	5120-01-349-4547	1
Socket, Socket Wrench, 1/2 inch Drive, 13 mm, 6 pt. (3819322)	5120-01-398-8033	1
Socket, Socket Wrench, 1/2 inch Drive, 14 mm, 6 pt. (3819323)	5120-01-398-7937	1
Socket, Socket Wrench, 1/2 inch Drive, 16 mm, 6 pt. (3819324)	5120-01-348-9035	1
Socket, Socket Wrench, 1/2 inch Drive, 18 mm, 6 pt. (3819325)	5120-01-348-9037	1
Socket, Socket Wrench, 1/2 inch Drive, 19 mm, 6 pt. (3819326)	5120-01-398-7919	1
Socket, Socket Wrench, 33 mm (3819333)	5130-01-400-0196	1
Wrench, Adjustable, 8 in. (3819329)	5120-00-240-5328	1
Wrench, Adjustable, 12 in. (120405A)	5120-00-264-3796	1
Wrench, Lug Nut-Extension, Socket Wrench, 8 in., 3/4 in. Drive (3819331)	5120-00-243-7328	1
Wrench, Lug Nut - Handle, Socket Wrench, 19.5 in. Sliding Tee, 3/4 in. Drive(1505380)	5120-01-242-7218	1
Wrench, Plier (1362660)	5120-01-522-0827	1
Wrench, Socket (3819335)	5120-00-316-9217	1

END OF WORK PACKAGE

CHAPTER 3

TROUBLESHOOTING PROCEDURES FOR M1240, M1240A1, AND M1245

TROUBLESHOOTING PROCEDURES

INTRODUCTION

This work package contains operator troubleshooting procedures. Table 1 lists most common malfunctions found during operation of the M-ATV and its components. Tests or inspections and corrective actions should be performed in the order listed. If a malfunction is not listed on the table refer to Field Maintenance.

To quickly find the troubleshooting procedure you need, use the Fault Symptom Index (Table 1). Components and symptoms are listed first; common malfunctions are listed under those components or system headings.

This manual cannot list all malfunctions that may occur. Nor can it list all tests, inspections, and corrective actions. If a malfunction is not listed, or if listed corrective actions are not adequate, notify your Supervisor.

Table 1. Symptom Index.

Table 1. Symptom Index.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

ENGINE

ENGINE FAILS TO CRANK WHEN IGNITION SWITCH IS TURNED TO START POSITION

Step 1. Check that instrument panel lights illuminate with ignition switch on.

If instrument panel lights do not illuminate, check battery disconnect switch.

Step 2. Check for tripped circuit breakers (WP 0063). If tripped, reset. If circuit breakers trip again, notify Field Maintenance.

Step 3. Check that transmission range selector is switched to N (neutral).

If transmission range selector is not in neutral (N), position transmission range selector to neutral (N). Attempt to restart engine.

WARNING

Do not wear watches, rings, or other jewelry when servicing batteries which could short out battery terminals. Do not smoke or use open flame around batteries. Batteries can explode from sparks. Battery acid is harmful to skin and eyes. Failure to comply may result in injury to personnel.

NOTE

Notify Field Maintenance to open battery covers for M1245.

Step 4. Remove battery covers (WP 0062, M1240/M1240A1).

a. Check for dirty battery connectors, and loose or broken battery cables.

b. If battery cables are loose, corroded, or damaged, notify Field Maintenance.

Step 5. Attempt to start, if problem still exists, notify Field Maintenance.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

ENGINE CRANKS BUT FAILS TO START

Step 1. Check for tripped circuit breakers (WP 0063). If tripped, reset. If circuit breaker trips again, notify Field Maintenance.

WARNING

Fuel is flammable and can explode. To avoid injury or death, keep fuel away from open flame and keep fire extinguisher within easy reach when working with fuel. Do not work on fuel system when engine is hot. Fuel can be ignited by hot engine. Smoking is prohibited while working with fuel. Failure to comply may result in injury or death to personnel.

Step 2. Check indication on FUEL gauge.

If fuel gauge indicates fuel tank is empty, fill fuel tank, prime engine (WP 0065), and attempt to restart engine.

Step 3. Reset and check air filter restriction indicator.

If indicator shows RED after resetting, notify Field Maintenance.

Step 4. Check fuel/water separator for contamination or water.

NOTE

Refer to local procedures and plans for use, storage or disposal of drained fluids.

If water or contamination is present, drain fuel from sediment bowl until clean fuel flows out. Attempt to restart engine.

Step 5. Check fuel filter and fuel/water separator for damage or leaks.

a. If fuel filter or fuel/water separator is loose and leaking, notify Field Maintenance.

b. If fuel filter or fuel/water separator is damaged, notify Field Maintenance.

Step 6. Check fuel lines and connections for leaks or damage.

If hoses are leaking or damaged, notify Field Maintenance.

Step 7. Attempt to start engine, if problem still exists, notify Field Maintenance.

ENGINE SHUTS DOWN WHILE RUNNING

Step 1. Check indication on fuel gauge.

If fuel gauge indicates fuel tank is empty, fill fuel tank, prime engine (WP 0065), and attempt to restart engine.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

Step 2. Reset and check air filter restriction indicator.

If indicator shows RED after resetting, notify Field Maintenance.

Step 3. Check fuel/water separator for contamination or water.

NOTE

Refer to local procedures and plans for use, storage or disposal of drained fluids.

If water or contamination is present, drain fuel from sediment bowl until clean fuel flows out. Attempt to restart engine. If problem still exists, notify Field Maintenance.

ENGINE RUNS ROUGHLY AFTER PROPER WARM-UP, DOES NOT DEVELOP FULL POWER, OR MAKES EXCESSIVE EXHAUST SMOKE

Step 1. Check air filter restriction indicator.

a. If indicator reads below RED, go to Step 2.

b. If indicator reads in RED, reset indicator.

c. If indicator still reads in RED after resetting, notify Field Maintenance.

WARNING

Fuel is flammable and can explode. To avoid injury or death, keep fuel away from open flame and keep fire extinguisher within easy reach when working with fuel. Do not work on fuel system when engine is hot. Fuel can be ignited by hot engine. Smoking is prohibited while working with fuel. Failure to comply may result in injury or death to personnel.

Step 2. Check fuel/water separator for contamination or water.

NOTE

Refer to local procedures and plans for use, storage or disposal of drained fluids.

If water or contamination is present, drain fuel from sediment bowl until clean fuel flows out.

Step 3. With engine OFF, check fuel filter (on engine) and fuel/water separator for damage or leaks.

If fuel filter or fuel/water separator is loose, leaking, or damaged, notify Field Maintenance.

Step 4. Check fuel lines and connections for leaks or damage.

If hoses are leaking or damaged, notify Field Maintenance.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

Step 5. Attempt to start engine.

If problem still exists, notify Field Maintenance.

ENGINE OVERHEATS

Step 1. Check that FAN FORD switch is in the OFF (down) position (WP 0007).

WARNING

Cooling system components are very hot and pressurized during vehicle operation. Let cooling system cool before checking hoses. Failure to comply may result in burns to personnel.

Step 2. With engine OFF and hood open, check coolant level in coolant overflow reservoir.

If coolant level is low, add coolant to overflow reservoir until level is at COLD mark.

a. For vehicles fitted with a coolant overflow reservoir, add coolant until level is at COLD mark

b. For vehicles fitted with a coolant surge tank, add coolant until level is visible in sight glass.

Step 3. Check radiator cooling fins, charge air cooler fins, and hood grill for obstructions (leaves, paper, etc.).

If obstructed, clear obstruction.

Step 4. Check radiator hoses, clamps, and radiator for leaks.

If surge tank, radiator, or hoses leak, notify Field Maintenance.

Step 5. Attempt to start vehicle, if problem still exists, notify Field Maintenance.

LOW ENGINE OIL PRESSURE GAUGE INDICATION

Step 1. With engine OFF and hood open, check engine oil level (WP 0059).

If engine oil level is low, add oil as required.

Step 2. Check under vehicle for Class III leaks.

If Class III leaks are found, notify Field Maintenance.

Step 3. If problem still exists, notify Field Maintenance.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

EXCESSIVE ENGINE OIL CONSUMPTION

Step 1. Check underneath vehicle for Class III leaks.

If Class III leaks are found, notify Field Maintenance.

Step 2. If problem still exists, notify Field Maintenance.

TRANSMISSION

NOISY WHEN OPERATING

Step 1. Check transmission fluid level (WP 0059).

If fluid level is low, add necessary amount of oil. If fluid level is high, notify Field Maintenance.

Step 2. If problem still exists, notify Field Maintenance.

TRANSMISSION TEMPERATURE GAUGE OR HIGH TRANSMISSION TEMP LIGHT INDICATES OVERHEATING DURING NORMAL OPERATION

Step 1. Check that FAN FORD switch is in OFF (down) position (WP 0007).

Step 2. Check transmission fluid level (WP 0059).

If transmission fluid level is low, add necessary amount of oil. If fluid level is high, notify Field Maintenance.

WARNING

Cooling system components are very hot and pressurized during vehicle operation. Let cooling system cool before checking hoses. Failure to comply may result in burns to personnel.

Step 3. With engine OFF and hood open, check coolant level.

If coolant level is low, add coolant.

a. For vehicles fitted with a coolant overflow reservoir, add coolant until level is at COLD mark

b. For vehicles fitted with a coolant surge tank, add coolant until level is visible in sight glass.

Step 4. Check if radiator cooling fins, charge air cooler fins, and hood grill are obstructed (leaves, paper, etc.).

If obstructed, clear obstruction.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

Step 5. Check radiator hoses, clamps, and radiator for leaks.

a. Tighten loose hose clamps.

b. If radiator or hoses leak, notify Field Maintenance.

Step 6. If problem still exists, notify Field Maintenance.

TRANSMISSION WILL NOT SHIFT INTO GEAR OR SHIFT OUT OF GEAR (CHECK TRANSMISSION INDICATOR ON)

WARNING

- **The driver's field of vision is limited. Ground guides must be used when operating in congested areas or when operating in reverse. Ground guides must stand clear of the vehicle and remain within view of the driver. Failure to comply may result in injury or death to personnel and damage to equipment.**
- **Single hearing protection is required in and around an operating vehicle. Double hearing protection is required during weapons firing. Failure to comply may result in injury to personnel.**

NOTE

When transmission oil is below 19°F (-7°C), the only gears available are reverse (R), neutral (N), and third gear when drive (D) is selected. Remaining gears in drive (D) will not be available until oil in sump warms above 19°F (-7°C).

CHECK TRANSMISSION INDICATOR COMES ON DURING OPERATION

If check transmission indicator comes on when operating vehicle, apply service brakes, stop vehicle, do NOT shift into neutral (N), and perform Transmission Limp Home procedure (WP 0022).

CHECK TRANSMISSION INDICATOR COMES ON AND REMAINS ON AFTER STARTUP

If check transmission indicator remains on after startup, prior to operating vehicle, stop engine, wait 15 seconds, and restart engine. If check transmission indicator does not stay on, the fault has cleared and the vehicle can be operated normally. Notify Field Maintenance at earliest opportunity.

If check transmission indicator comes on and remains on after second startup, turn off engine, do not operate vehicle, and notify Field Maintenance.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

WHEELS

WHEEL WOBBLES

Step 1. Check wheels for loose, missing, or broken lug nuts.

Tighten loose lug nuts and notify Field Maintenance to have lug nuts tightened to proper torque requirements.

Step 2. Check tires for bulges and visually inspect for bent wheel.

If wheel is bent or tire has bulges, notify Field Maintenance.

Step 3. If problem still exists, notify Field Maintenance.

STEERING

VEHICLE SHIMMIES, WANDERS, OR PULLS TO ONE SIDE

Step 1. Check wheels for loose, missing, or broken lug nuts.

Tighten loose lug nuts and notify Field Maintenance to have lug nuts tightened to proper torque requirements.

Step 2. Check for obvious damage to steering components.

If steering components are damaged, notify Field Maintenance.

Step 3. Check tires for proper pressure.

If tire pressure is not correct, adjust tire to proper pressure (WP 0031 and WP 0061).

Step 4. Check CTIS for proper operation.

If CTIS is not operating properly, notify Field Maintenance.

Step 5. If problem still exists, notify Field Maintenance.

VEHICLE IS HARD TO STEER OR STEERING IS SLOW TO RESPOND OR INTERMITTENT

Step 1. Check hydraulic steering reservoir fluid level.

If fluid level is low, notify Field Maintenance.

Step 2. Check for loose or leaking hydraulic steering connections and damaged hydraulic steering lines.

If lines are loose or damaged, notify Field Maintenance.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

Step 3. Check tires for proper pressure.

If tire pressure is not correct, adjust tire to proper pressure (WP 0031 and WP 0061).

Step 4. If problem still exists, notify Field Maintenance.

AIR SYSTEM

LOW AIR BUZZER SOUNDS AND LOW AIR INDICATOR LIGHTS ARE ON

Step 1. Check air pressure gauges.

a. If red and green needles show 75 psi (517 kPa) or more, but buzzer and lights are still on, notify Field Maintenance.

b. If red and green needles show below 75 psi (517 kPa) and does not build up after several minutes, go to Step 2.

Step 2. Check that TRAILER AIR SUPPLY control is pulled out (OFF position) (WP 0007).

Pull out TRAILER AIR SUPPLY control.

Step 3. Check that all air reservoir drain valves are closed.

Close all drain valves.

Step 4. Check for leaks at hoses, lines, fittings, and connectors.

If leaks are found, notify Field Maintenance.

Step 5. If problem still exists, notify Field Maintenance.

TRAILER BRAKES DO NOT APPLY WHEN SERVICE BRAKE PEDAL OR PARKING BRAKE IS USED

Check to make sure that service and emergency air hoses are secure and properly connected.

a. Connect air hoses.

b. If problem still exists, notify Field Maintenance.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

ELECTRICAL

NO ELECTRICAL CIRCUITS OPERATE

Step 1. Make sure that battery disconnect switch is in the ON position (WP 0007).

Step 2. Check for tripped circuit breakers (WP 0063). If tripped, reset. If circuit breaker trips again, notify Field Maintenance.

WARNING

Do not wear watches, rings, or other jewelry when servicing batteries which could short out battery terminals. Do not smoke or use open flame around batteries. Batteries can explode from sparks. Battery acid is harmful to skin and eyes. Failure to comply may result in injury to personnel.

NOTE

Notify Field Maintenance to open battery covers for M1245.

Step 3. Remove battery covers (WP 0062, M1240/M1240A1).

a. Check for dirty battery connectors, and loose or broken battery cables.

b. If battery cables are loose, corroded, or damaged, notify Field Maintenance.

Step 4. If problem still exists, notify Field Maintenance.

VOLTMETER READS LESS THAN 26 VOLTS WHILE ENGINE IS RUNNING

Step 1. Check for tripped circuit breakers (WP 0063). If tripped, reset. If circuit breaker trips again, notify Field Maintenance.

WARNING

Do not wear watches, rings, or other jewelry when servicing batteries which could short out battery terminals. Do not smoke or use open flame around batteries. Batteries can explode from sparks. Battery acid is harmful to skin and eyes. Failure to comply may result in injury to personnel.

NOTE

Notify Field Maintenance to open battery covers for M1245.

Step 2. Remove battery covers (WP 0062, M1240/M1240A1).

a. Check for dirty battery connectors, and loose or broken battery cables.

b. If battery cables are loose, corroded, or damaged, notify Field Maintenance.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

Step 3. If problem still exists, notify Field Maintenance.

WINDSHIELD WASHER WILL NOT OPERATE

Step 1. Check washer fluid level in reservoir (WP 0059).

WARNING

Engine components become extremely hot during normal operation. Use extreme care when working around hot components. Failure to comply may result in injury to personnel.

If fluid is low, fill reservoir with fluid.

Step 2. If washers do not operate, or if only one washer operates, check that hoses are securely connected.

Tighten any loose connections.

Step 3. If problem still exists, notify Field Maintenance.

ONE OR MORE LIGHTING SYSTEMS NOT OPERATING (HEADLIGHTS, BLACKOUT LIGHTS, TURN SIGNALS, BRAKE LIGHTS, SPOTLIGHTS, MARKER LIGHTS, REVERSE LIGHTS, TRAILER LIGHTS)

NOTE

Blackout select switch must be in OFF position when operating service lights (WP 0007).

Step 1. Check to make sure lighting system controls are in ON or operating position.

If lighting system controls are OFF, turn to ON position.

Step 2. Check for tripped circuit breakers.

If tripped, reset (WP 0063). If circuit breaker trips again, notify Field Maintenance.

Step 3. If trailer is attached and trailer lighting system is not working, check intervehicular connection.

If cable connector is loose, reconnect cable connector.

Step 4. If problem still exists, notify Field Maintenance.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

WINCH

WINCH DOES NOT OPERATE

NOTE

For more information on the winch refer to WP 0049.

Step 1. Reset OLI by turning battery disconnect switch to OFF for three to five seconds.

Step 2. If problem still exists, notify Field Maintenance.

WINCH UNUSUALLY NOISY WHEN OPERATING

WARNING

- **Keep all personnel away from winch cable during winch operation. Failure to comply may result in injury or death to personnel.**
- **Cable is under tension when wrapped around drum. Keep hands away from drum when operating winch. Failure to comply may result in injury or death to personnel.**

Step 1. Check to make sure cable is not twisted, tangled, or causing drum to bind.

Pay out or take up cable as necessary to straighten cable.

Step 2. If problem still exists, notify Field Maintenance.

CAPSULE FIRE SUPPRESSION SYSTEM

NO LED'S ILLUMINATED

Step 1. Check if dimmer switch is on.

Place dimmer switch to OFF.

Step 2. If problem still exists, notify Field Maintenance.

POWER LED NOT ILLUMINATED

Step 1. Check for tripped circuit breaker CB10.

Reset circuit breaker if tripped (WP 0063).

Step 2. If problem still exists, notify Field Maintenance.

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

ENGINE FIRE SUPPRESSION SYSTEM

SERVICE SYSTEM LED IS FLASHING ONCE

Step 1. Check for tripped circuit breaker CB10.

Reset circuit breaker if tripped (WP 0063).

Step 2. If problem still exists, notify Field Maintenance.

UNDERCARRIAGE FIRE SUPPRESSION SYSTEM

NO LED'S ILLUMINATED

Step 1. Check for tripped circuit breaker CB10.

Reset circuit breaker if tripped (WP 0063).

Step 2. If problem still exists, notify Field Maintenance.

GOVERNMENT FURNISHED EQUIPMENT (GFE)

GOVERNMENT FURNISHED EQUIPMENT (GFE) DOES NOT OPERATE

Step 1. Check if main GFE circuit breaker is tripped.

Reset circuit breaker if tripped (WP 0063).

Step 2. Check if inoperative GFE equipment circuit breaker is tripped.

Reset circuit breaker if tripped (WP 0063).

Step 3. If problem still exists, notify Field Maintenance.

END OF WORK PACKAGE

CHAPTER 4

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) INSTRUCTIONS FOR M1240, M1240A1, AND M1245

PMCS INTRODUCTION

GENERAL

This paragraph contains the operator PMCS requirements for the M-ATV. The PMCS table contains checks and services necessary to ensure that the M-ATV is ready for operation. All M-ATV variants are addressed within the PMCS table. Multiple configuration/model specific items are called out with notes and Steps. Using the PMCS table, perform the maintenance at the specified intervals.

USE OF THE PMCS TABLE

1. Interval Column. This column describes when and how often the checks are to be made. Pay close attention to all CAUTIONS and WARNINGS. Checks and services given in table are for normal operation. Extreme weather conditions, periods of high use, or combat conditions may dictate that the PMCS is performed more often than is mentioned in the PMCS table.

    (a) B (Before): Perform your BEFORE (B) PMCS just before you operate the vehicle and/or its components.

    (b) D (During): Perform your DURING (D) PMCS while the vehicle and/or its components are in operation.

    (c) A (After): Perform your AFTER (A) PMCS right after operating the vehicle and/or its components.

    (d) M (Monthly): Perform your MONTHLY (M) PMCS on a monthly basis. Perform all B and A PMCS tasks when performing monthly checks.

2. Equipment is Not Mission Capable Column. This column contains the criteria that causes the equipment to be classified as not ready/not available because of the inability to perform its primary mission. If severity of the problem is such that the operator thinks the vehicle cannot be operated, the operator should contact their Supervisor.

3. Item to Be Inspected Column. This column lists specific items to be checked and a brief description of the procedure by which the check is to be performed.

4. Always perform your PMCS in the same order.

5. If you find a problem that is beyond your echelon of repair, report the problem to Field Maintenance.

GENERAL MAINTENANCE PROCEDURES

1. *Cleanliness.* Dirt, grease, oil, and debris get in the way and may cover up a serious problem. Always perform PMCS on a clean vehicle.
2. *Nuts and Screws.* Check for obvious looseness, missing, bent, or broken nuts and screws. Look for chipped paint, bare metal, or rust around screw heads.
3. *Welds.* Look for loose or chipped paint, rust, or gaps where parts are welded together.
4. *Electrical Wires and Connectors.* Look for cracked or broken insulation, bare wires, and loose or broken connectors.
5. *Fluid Lines and Fittings.* Look for wear, damage, or leaks and make sure clamps and fittings are tight. Wet spots show leaks but a stain around a fitting or connector can also mean a leak.
6. *Damage.* Damage is defined as any condition that affects safety or would render the vehicle unserviceable for mission requirements.

FLUID LEAKAGE

The following are definitions of the types/classes of leakage for determining the status of fluid systems. Become familiar with them, and remember - **WHEN IN DOUBT, NOTIFY YOUR SUPERVISOR**.

1. **Class I**. Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.
2. **Class II**. Leakage of fluid great enough to form drops but not enough to cause drops to drip from item being checked/inspected.
3. **Class III**. Leakage of fluid great enough to form drops that fall from item being checked/inspected.

END OF WORK PACKAGE

PMCS TABLE

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS).

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
					MAKE THE FOLLOWING WALK AROUND CHECKS:	
1.					**CAPSULE AND HOOD EXTERIOR**	
					NOTE Cracked mirrors can impair driver's vision.	
	•				a. Inspect side view mirrors (1) for damage and to ensure mirrors are securely attached.	Any mirror that is missing, unusable or has cracks that impair driver's vision.
	•				b. Inspect auxiliary mirrors (2) for damage and to ensure mirrors are securely attached.	Any mirror that is missing, unusable or has cracks that impair driver's vision.
	•		•		c. Check under vehicle for fuel, oil, transmission fluid, or coolant leakage.	Any fuel leak or Class III oil or coolant leak.
				•	d. Inspect capsule (3) and hood (4) for damage.	
				•	e. Check hood latches for damage (cracks, dry rot, separated rubber).	

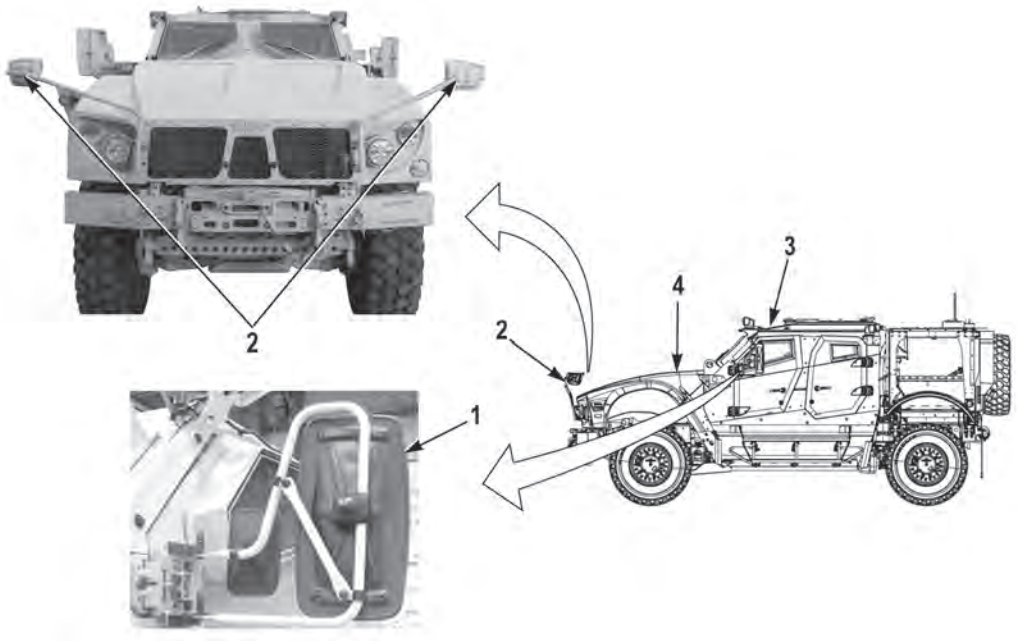


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
2.					**WINDSHIELD WIPER ARMS AND BLADES**	
	•				Check windshield wiper arms (1) and blades (2) for damage or wear.	Windshield wiper arms cracked or missing. Blades worn, cracked or torn.

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
3.					**WINDSHIELD AND DOORS** **WARNING** **Ballistic glass may become very hot when exposed to sun or when in a hot environment. Avoid contacting hot ballistic glass with hands or skin. Failure to comply may result in injury to personnel.** **CAUTION** **• Do not use cool water when cleaning hot ballistic glass. Putting cool water on hot ballistic glass may cause window to crack or delaminate. Failure to comply may result in damage to equipment.** **• Ballistic glass must only be cleaned with a lint-free cloth and a mild solution of warm water and soap. Failure to comply may result in damage to equipment.**	
	•				a. Check for broken, scratched, or cracked ballistic glass on windshield (1), front driver and passenger side windows (2), and rear driver and passenger side windows (3).	Ballistic glass cracked or broken. Poor visibility due to scratches.
	•				b. Check both front doors (4) and both rear doors (5) for damage.	Hinges not functional.
	•				c. Check latches (6) and shackles (7) (if equipped) on both front doors (4) and both rear doors (5) for damage and proper operation.	Latch not operable or door binds.
	•				d. Check combat locks (8) for proper operation.	

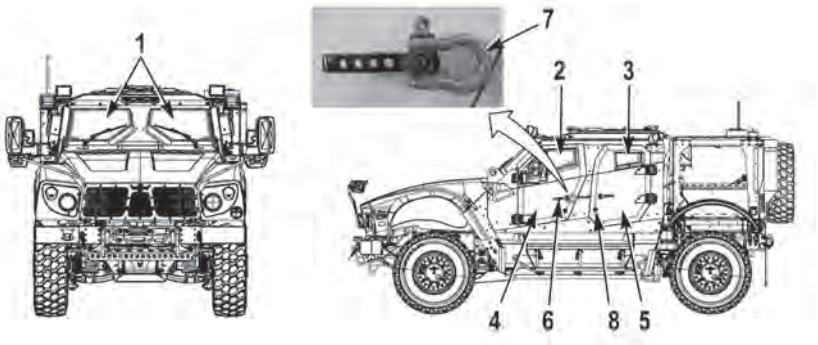


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
4.					**SHOCK ABSORBERS** **NOTE** • Lower shock bearing wear is normal and does not impair vehicle operation. • Shock absorbers may have a thin film of oil on the outer surface due to a normal condition known as “misting.” Misting is not considered a leak and will not be evident as a stream of fluid.	
	•				Check shock absorbers (1) for leaks and damage.	Leak or damage to shock absorbers that impairs vehicle operation.

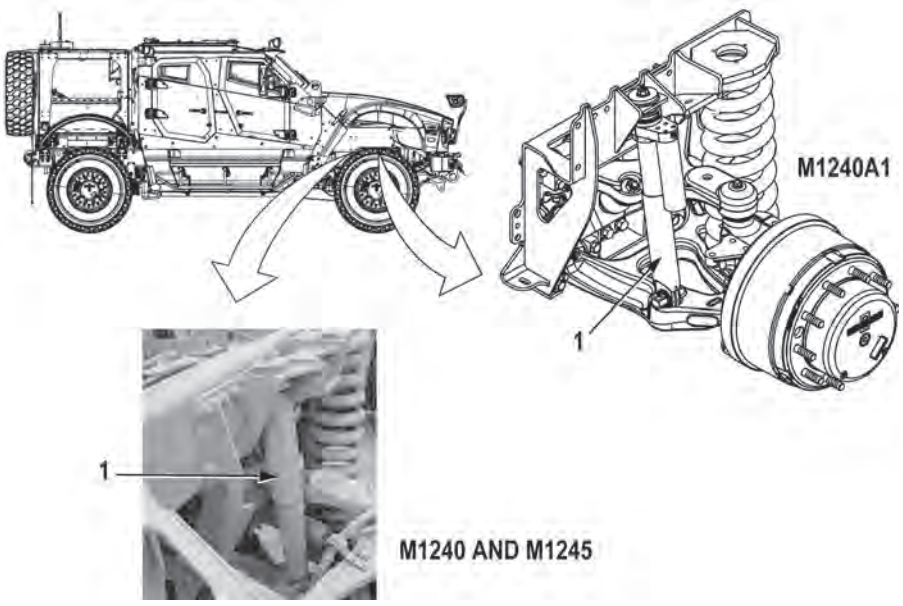


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
5.					**TIRES**	
	•		•		a. Check tires (1) for cuts, gouges, cracks, leaks, or other damage.	Any tire has wear or damage that allows ply or belt material to be exposed through the tread or sidewall. Any tire has tread or sidewall separation. Any tire that has an audible leak.
	•			•	b. Check wheels (2) for broken, cracked, or bent surfaces.	Wheel is broken, cracked, or bent.
	•			•	c. Check wheel nuts (3) and wheel studs (4) for obvious looseness or damage.	One or more wheel nuts and/or wheel studs are missing, loose, or damaged.
				•	d. Check that valve caps (5) are securely tightened.	

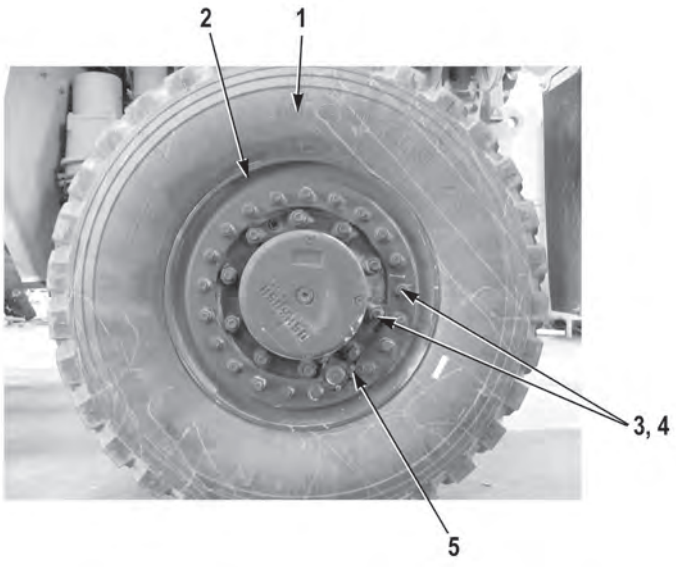


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
6.					**UNDERCARRIAGE FIRE SUPPRESSION SYSTEM (VEHICLES EQUIPPED WITH SENSOR WIRES)** **NOTE** • For vehicles equipped with nitrogen detection lines go to Item 7. • Location of undercarriage sensor wires are shown in undercarriage sensor wires chart.	
	•				a. Check undercarriage fire suppression system detection wires for damage.	Wires kinked or damaged.

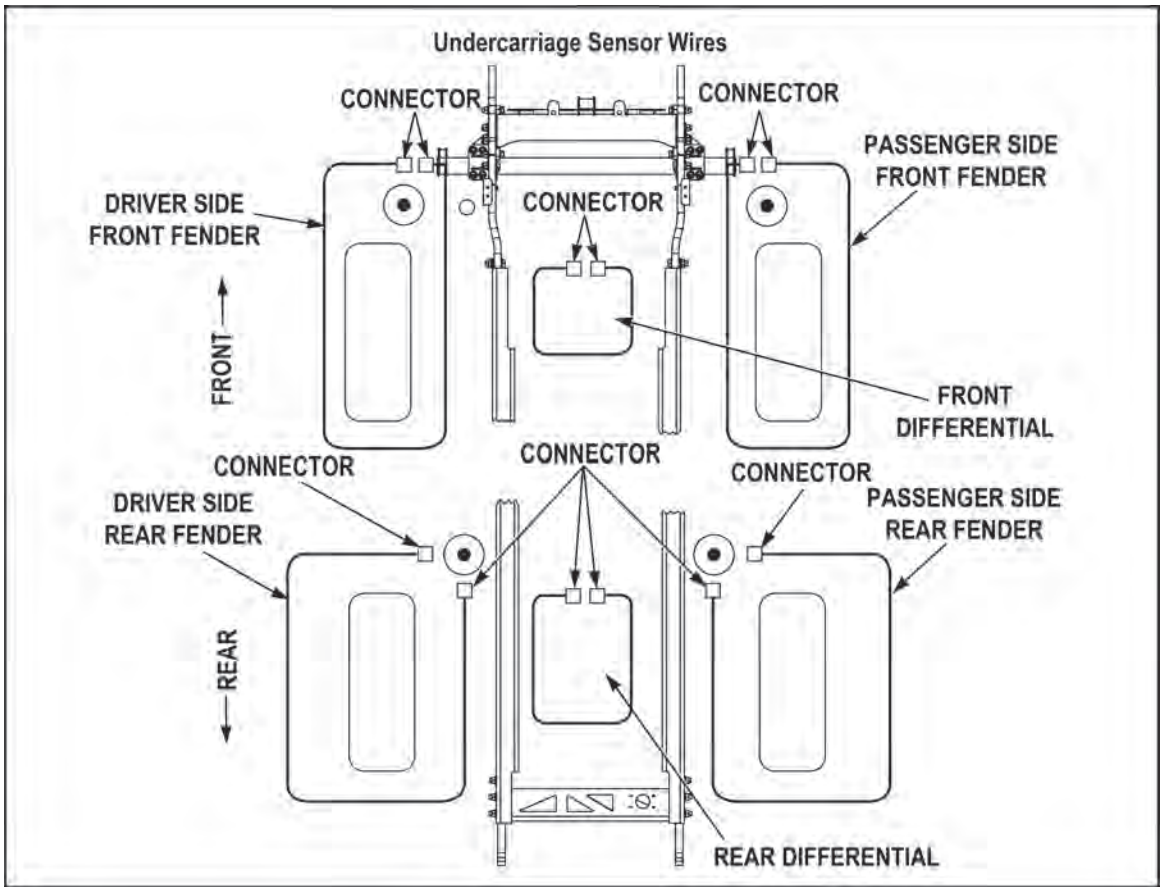


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
6.					**UNDERCARRIAGE FIRE SUPPRESSION SYSTEM (VEHICLES EQUIPPED WITH SENSOR WIRES) (Continued)**	
					NOTE Inspection mirror and flashlight may be required to check date stamp on top of cylinders.	
	•			•	b. Check fire suppression cylinder gauge (1) for proper charge and four digit date stamp (2) on top of cylinder (3).	Gauges read below green or date stamp is more than five years old.
	•			•	c. Check fire suppression cylinders (3) for damage.	Cylinder(s) is damaged.
	•				d. Check fire suppression system hoses (4) for kinks or damage.	Hoses kinked or damaged.

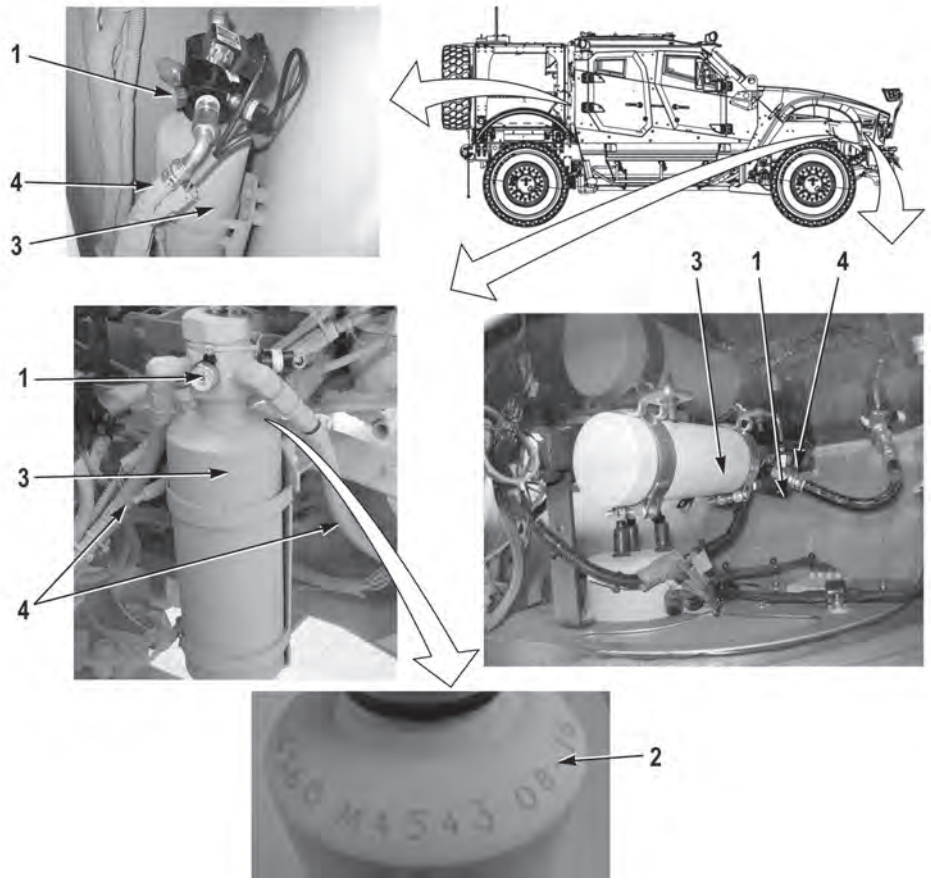


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
6.					**UNDERCARRIAGE FIRE SUPPRESSION SYSTEM (VEHICLES EQUIPPED WITH SENSOR WIRES) (Continued)**	
	•				e. Check for missing fire suppression nozzle protection caps (5) and proper installation.	Nozzle protection caps missing.
	•				f. Check wire harness (6) to control switch for proper connection and damage.	
	•				g. Ensure that control switch safety cover (7) is secured with wire.	Missing or broken wire.
	•				h. Turn battery disconnect switch to ON (WP 0007).	
	•				i. Turn ignition switch to ON position (WP 0007) (engine OFF).	
	•				j. Check that two fire suppression system LED's (8) are green.	Either LED is not green.
	•				k. Turn ignition switch to OFF position (WP 0007).	

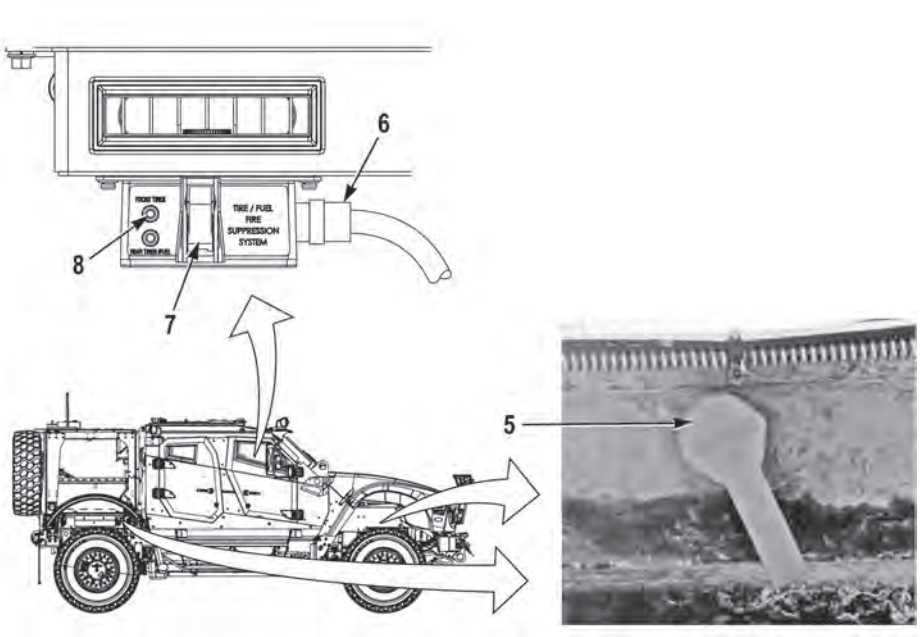


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
7.					**UNDERCARRIAGE FIRE SUPPRESSION SYSTEM (VEHICLES EQUIPPED WITH NITROGEN LINES)**	
	•				a. Check undercarriage fire suppression system detector tube pressure gauges (1) for proper pressure (indicator in green range of dial).	Indicator is not in green range of dial.

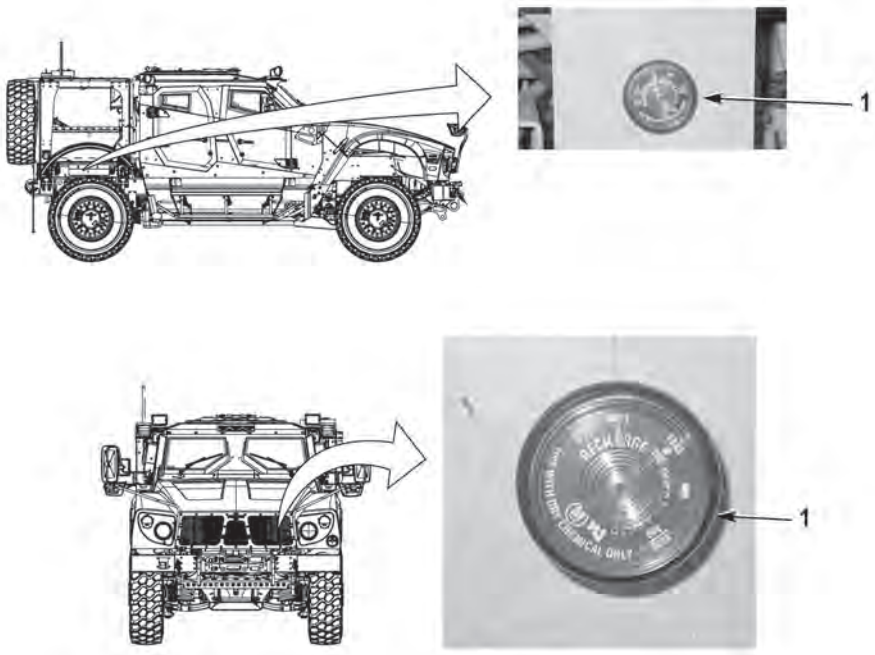


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
7.					**UNDERCARRIAGE FIRE SUPPRESSION SYSTEM (VEHICLES EQUIPPED WITH NITROGEN LINES) (Continued)**	
	•				b. Check undercarriage fire suppression system detector lines for kinks or damage.	Lines kinked or damaged.

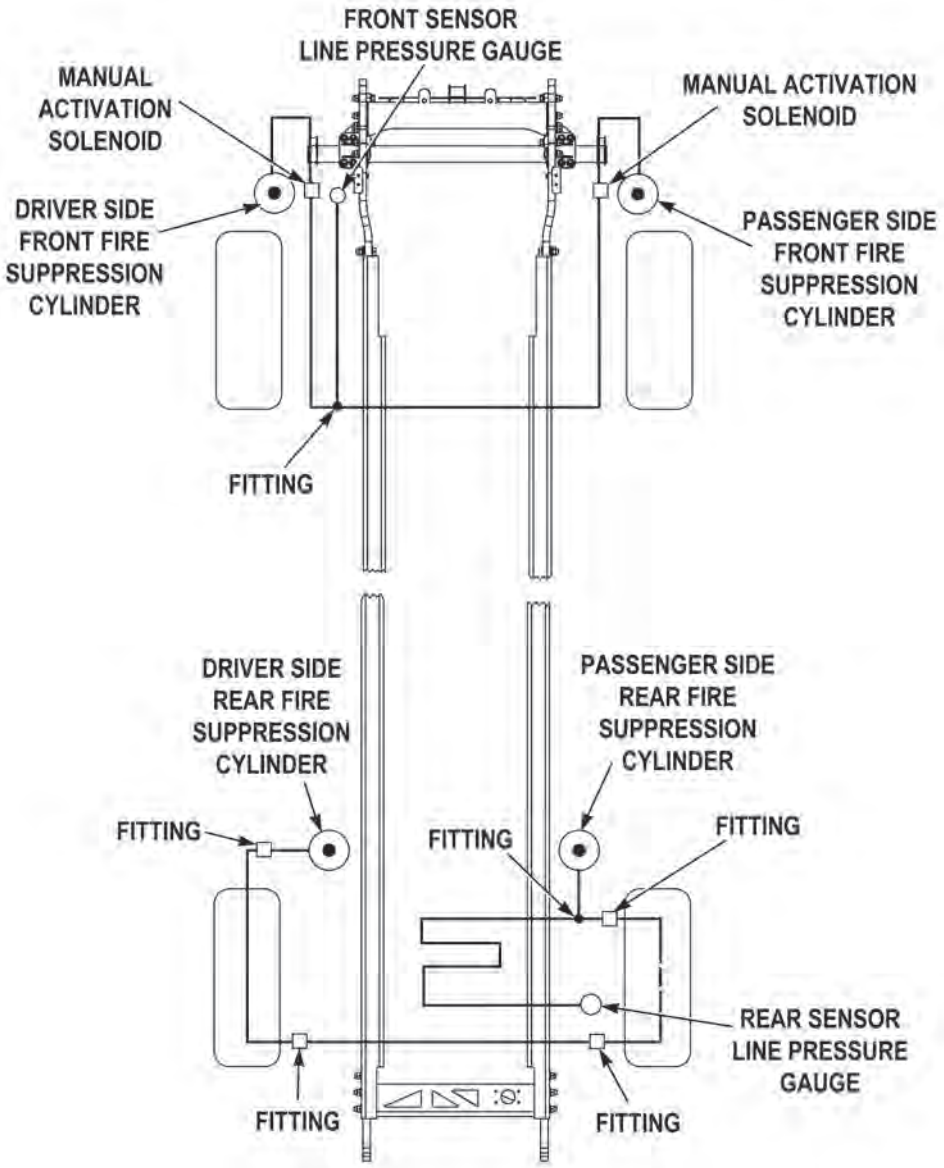


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
7.					**UNDERCARRIAGE FIRE SUPPRESSION SYSTEM (VEHICLES EQUIPPED WITH NITROGEN LINES) (Continued)**	
	•				c. Check that undercarriage fire suppression system cylinder ball valves (2) are in open position.	If valves are in closed position notify Field Maintenance.

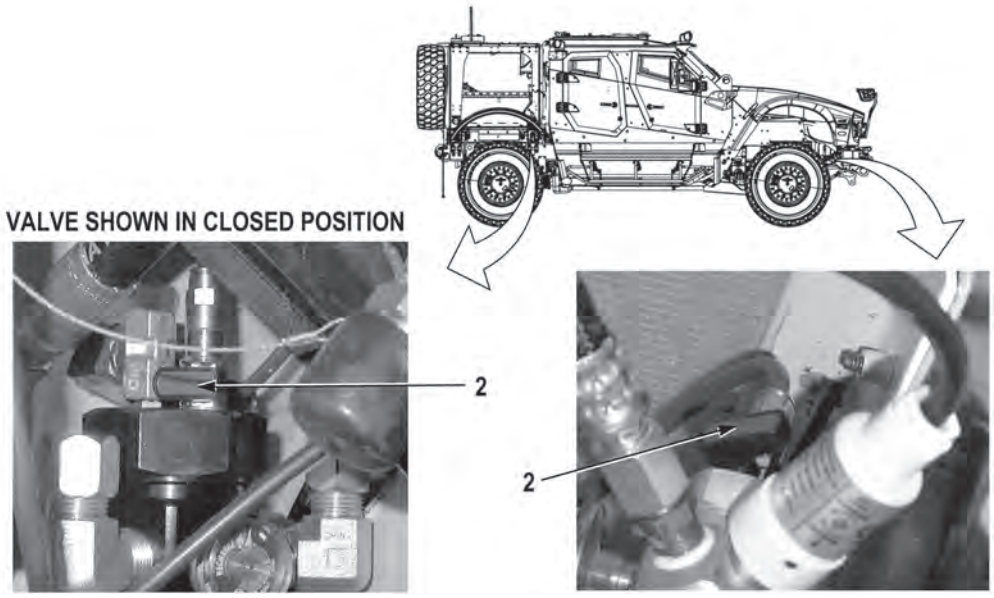


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
7.					**UNDERCARRIAGE FIRE SUPPRESSION SYSTEM (VEHICLES EQUIPPED WITH NITROGEN LINES) (Continued)**	
	•				d. Check for missing fire suppression nozzle protection caps (3) and proper installation.	Nozzle protection cap missing.
	•				e. Check wire harness (4) to control switch for proper connection and damage.	
	•				f. Ensure that control switch safety cover (5) is secured with wire.	Missing or broken wire.
	•				g. Check that two fire suppression system LED's (6) are green.	Either LED is not green.

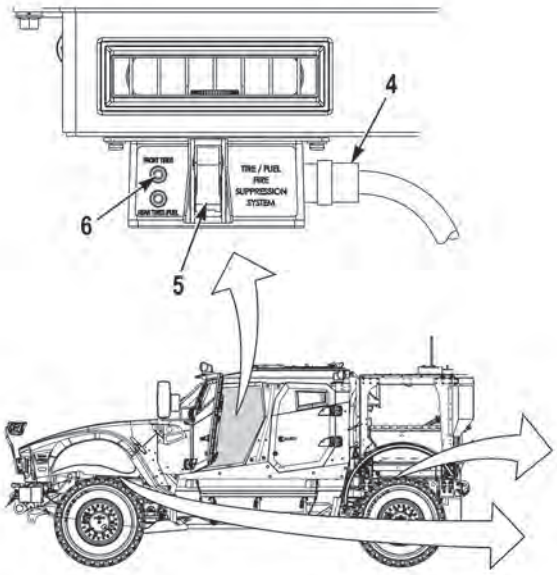


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
8.					**FUEL TANK**	
					WARNING **Do not perform fuel system checks while smoking or near flames, fire, or sparks. Fuel could ignite, causing damage to vehicle, severe injury, or death to personnel.**	
					CAUTION **Do not overfill fuel tank or fuel spillage will occur. Failure to comply may cause damage to equipment.**	
	•				a. Ensure fuel cap (1) is securely tightened.	Fuel cap is missing.
	•				b. Check fuel tank (2) and undercarriage for evidence of leaks.	Any fuel leak.
	•				c. Check fuel hoses and connections for leaks and damage.	Any leakage or loose connections.

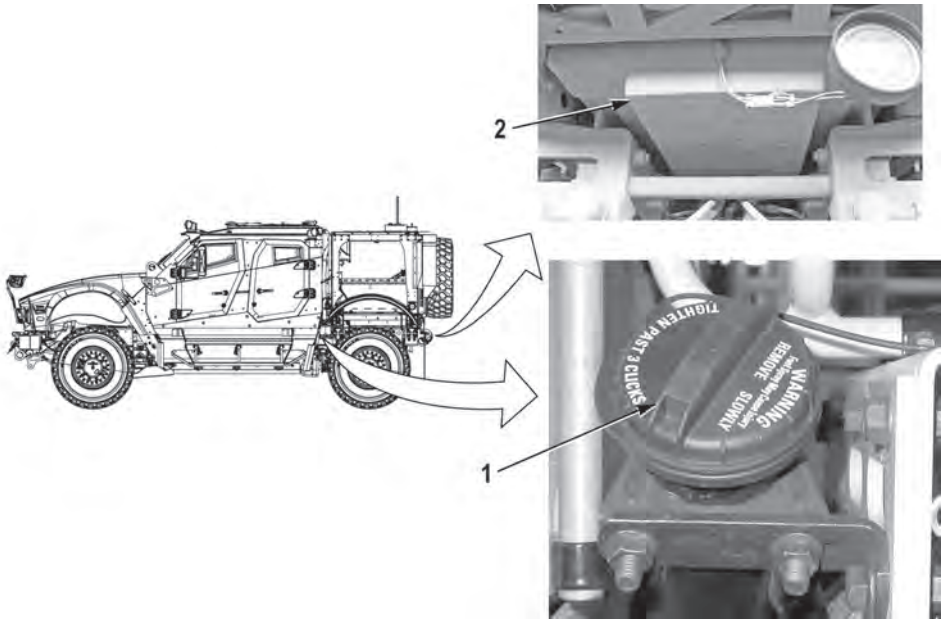


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

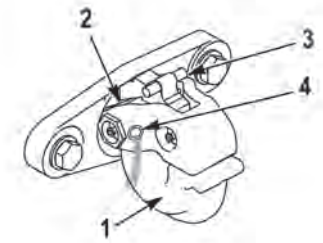
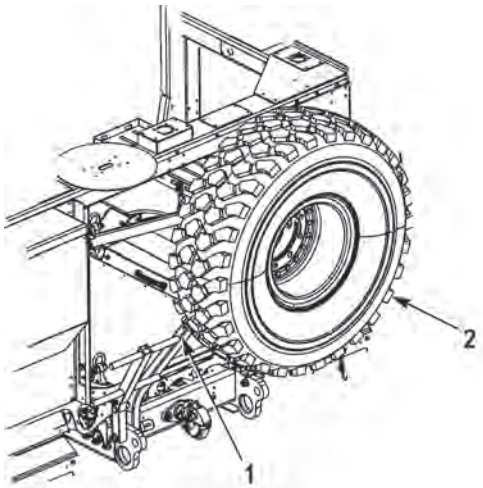
Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
9.					**PINTLE HOOK**	
	•				a. Check pintle hook (1) for secure mounting and proper operation. Ensure safety latch (2) engages hook lock (3).	Pintle hook is unserviceable.
	•		•		b. Ensure safety pin (4) is secured and functional.	
			•		c. Lubricate pintle hook (1) after each use (WP 0068).	
						
10.					**TIRE CARRIER ASSEMBLY** **NOTE** • Perform checks (a) and (b) for M1240 and M1240A1. • Perform checks (c) and (d) for M1245.	
	•		•		a. Check spare tire carrier assembly (1) for loose or missing hardware.	
	•		•		b. Check spare tire carrier assembly (1) for corrosion, cracks, and secure tire (2) attachment.	
						

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
10.					**TIRE CARRIER ASSEMBLY (Continued)**	
	•		•		c. Check spare tire carrier assembly (3) for loose or missing hardware.	
	•		•		d. Check spare tire carrier assembly (3) for corrosion, cracks, and secure tire (4) attachment.	

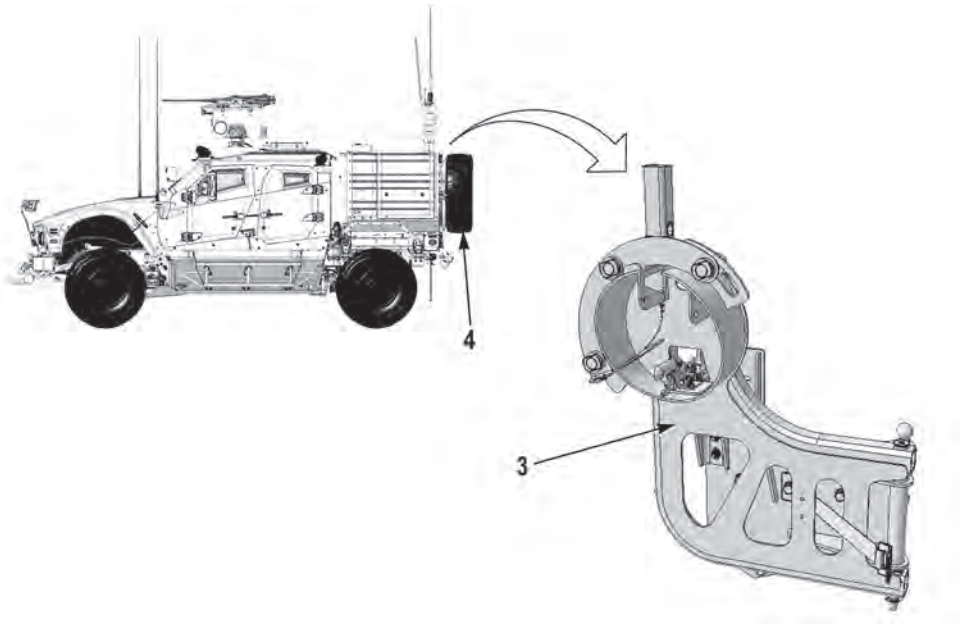


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
11.					**FRONT AND REAR GLADHANDS**	
	•				a. Check front and rear gladhands (1) and air lines for damage or obstruction.	Air line is damaged or obstructed.
	•				b. Inspect front and rear gladhands (1) for missing or rotted seals (rubber grommet).	Seal missing or rotted.
	•				c. Check lanyards (2) on both front gladhands for damage and serviceability.	Any air leak.

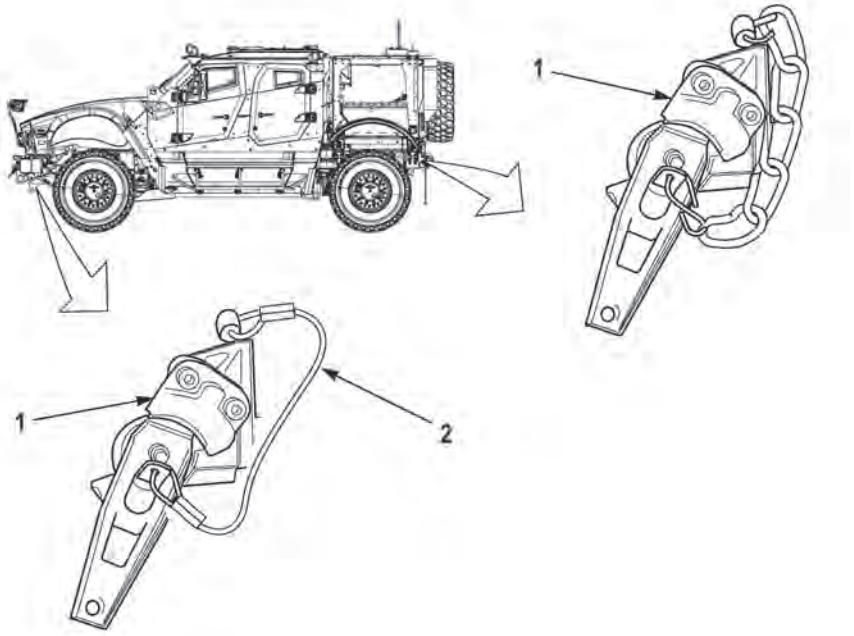


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

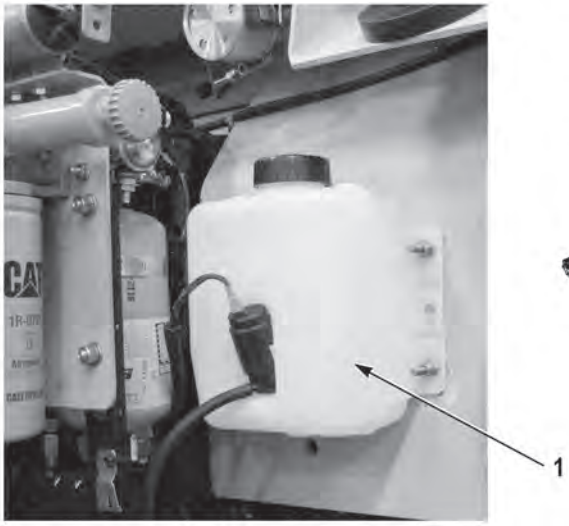
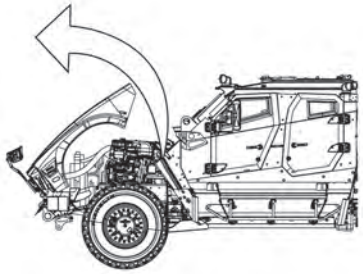
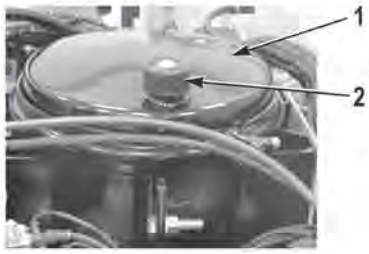
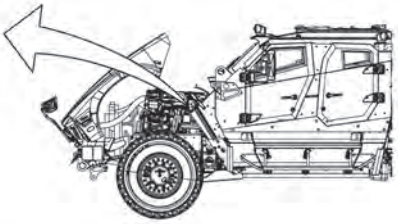
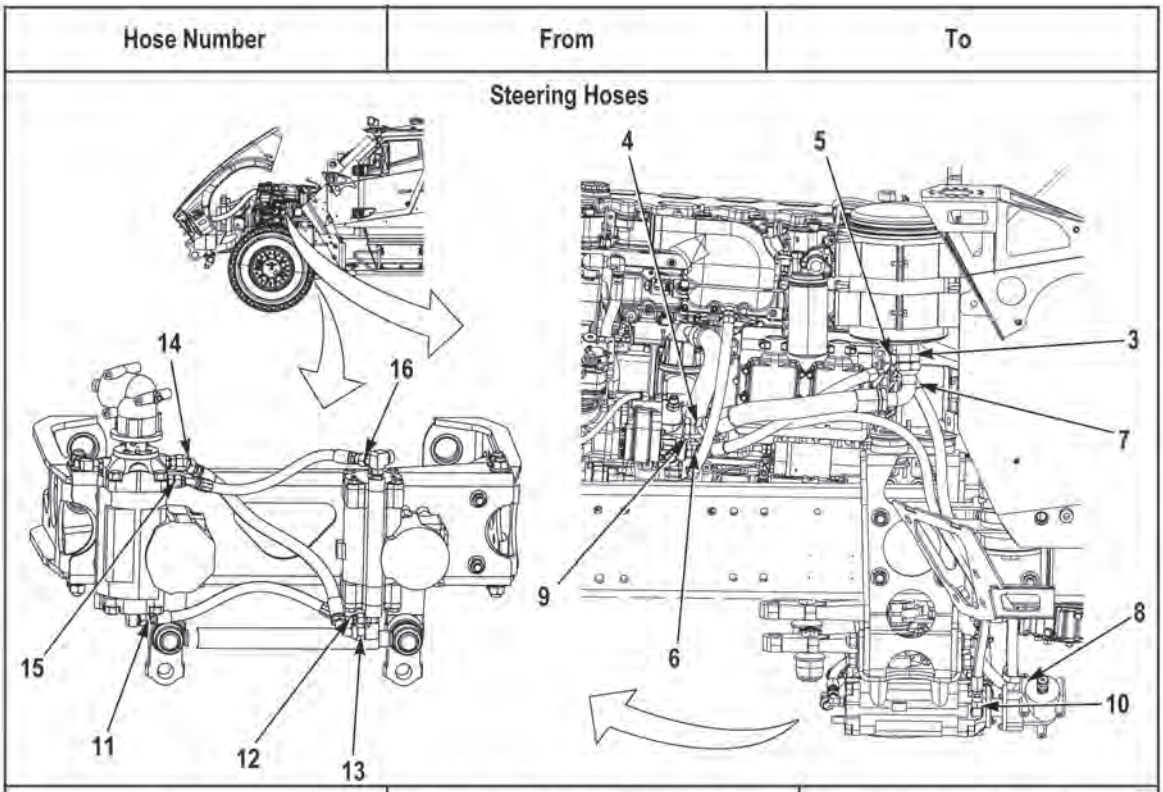
Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
12.					**WINDSHIELD WASHER FLUID BOTTLE**	
	•		•		Check to ensure there is fluid in windshield washer bottle (1) and that there is no damage to bottle or hoses. Add windshield washer fluid as necessary.	Any Class III leak.
					 	
13.					**HYDRAULIC STEERING SYSTEM**	
	•				a. Check hydraulic steering reservoir (1) for damage or leaks.	Any Class III leak.
					NOTE When checking steering hydraulic oil level, the oil temperature should be at outside air temperature.	
	•				b. Check hydraulic steering reservoir (1) and ensure steering oil level is between ADD and FULL marks on dipstick (2). Add fluid as required (WP 0068).	Oil level not between add and full marks. Any Class III leak.
					 	

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval B	D	A	M	ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
13.					**HYDRAULIC STEERING SYSTEM (Continued)** **NOTE** Refer to steering hose chart for location of steering hoses and fittings.	
	•				c. Check hydraulic steering hoses and fittings for damage, leakage, or looseness.	Any Class III leak.



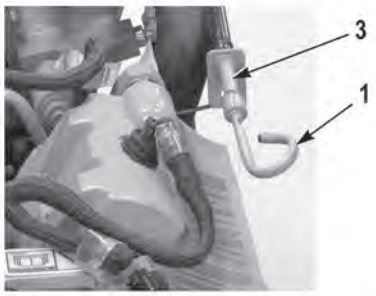
Hose Number	From	To
2278	HYDRAULIC RESERVOIR FITTING (3)	HYDRAULIC PUMP FITTING (4)
2701	HYDRAULIC RESERVOIR FITTING (5)	HYDRAULIC PUMP FITTING (6)
2883	HYDRAULIC RESERVOIR FITTING (7)	HYDRAULIC PUMP FITTING (8)
2393	HYDRAULIC RESERVOIR FITTING (9)	HYDRAULIC PUMP FITTING (10)
2878	HYDRAULIC RESERVOIR FITTING (11)	HYDRAULIC PUMP FITTING (12)
2879	HYDRAULIC RESERVOIR FITTING (13)	HYDRAULIC PUMP FITTING (14)
2877	HYDRAULIC RESERVOIR FITTING (15)	HYDRAULIC PUMP FITTING (16)

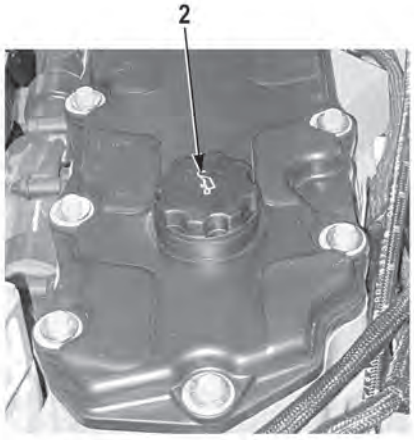
Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
14.					**ENGINE OIL** **CAUTION** **If engine oil needs to be drained, contact Field Maintenance. Failure to comply may result in damage to equipment.** **NOTE** If engine has been running, wait approximately 20 minutes after engine shutdown before checking engine oil.	
	•		•		a. Check engine oil on dipstick (1). Oil should be between the ADD and FULL mark. Add oil as required (WP 0068).	Oil level is too high or too low. Any Class III leak.
	•		•		b. Ensure dipstick (1) and fill cap (2) are properly installed.	
				•	c. Check dipstick tube assembly (3) and oil fill cap (2) for damage or leakage.	





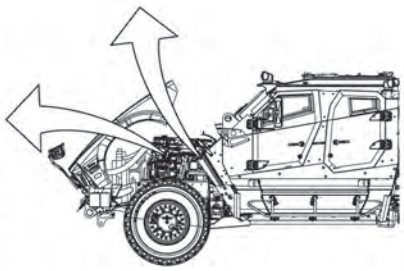


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
15.					**ETHER START SYSTEM** **WARNING** • **Use care when working around ether canister as ether canister is pressurized and is flammable. Failure to comply may result in injury or death to personnel.** • **Canisters are considered hazardous material and must be handled with care and disposed of in accordance with current directives. Failure to comply may result in injury or death to personnel.** • **Ether canister contains diethyl ether with carbon dioxide as a propellent. Keep away from heat and flame. NEVER smoke near contents. Do not incinerate or puncture container. Do not store at temperatures above 120ºF (49ºC). Avoid contact with skin and eyes. Avoid breathing of fumes. Do not store spare containers in capsule. If swallowed, do not induce vomiting. Contact physician immediately. Failure to comply may result in injury or death to personnel.** •	
				•	Inspect ether canister (1) for punctures or obvious damage.	

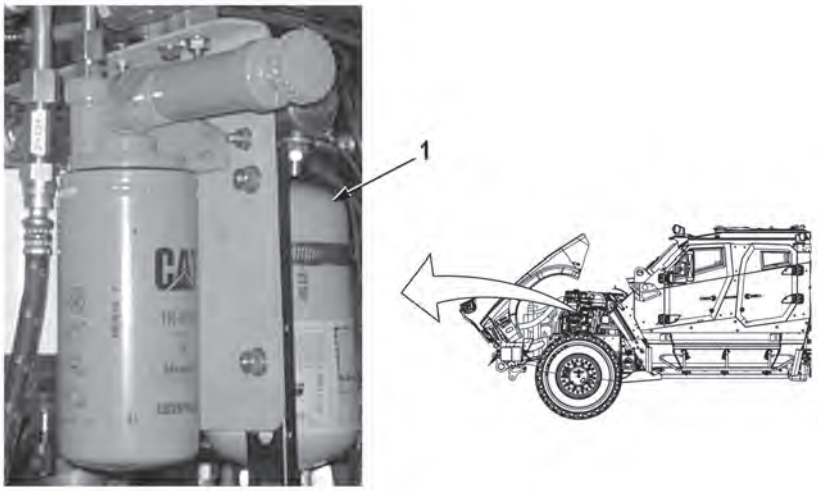


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
16.					**FUEL/WATER SEPARATOR**	
					WARNING **Fuel is flammable and can explode. Keep fuel away from open flame and keep fire extinguisher within easy reach when working with fuel. Do not work on fuel system when engine is hot. Fuel can be ignited by hot engine. Smoking is prohibited while working with fuel. Failure to comply may result in injury or death to personnel.**	
					NOTE Refer to local procedures and plans for the use, storage or disposal of drained fluids.	
	•		•		a. Check sediment bowl (1) for water. If water is present, drain fuel from bowl into suitable container until clean fuel flows out. To drain fuel from sediment bowl, open drain valve (2) until water and contaminated fuel are allowed to drain from sediment bowl. Close drain valve (2) once all water and contaminated fuel is drained from sediment bowl.	
				•	b. Check fuel water separator (3) for leaks, damage, or loose connections.	Any fuel leak.

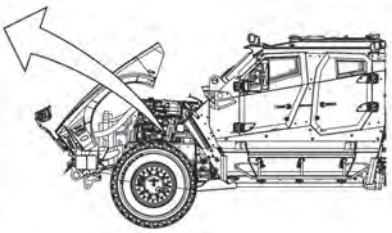


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

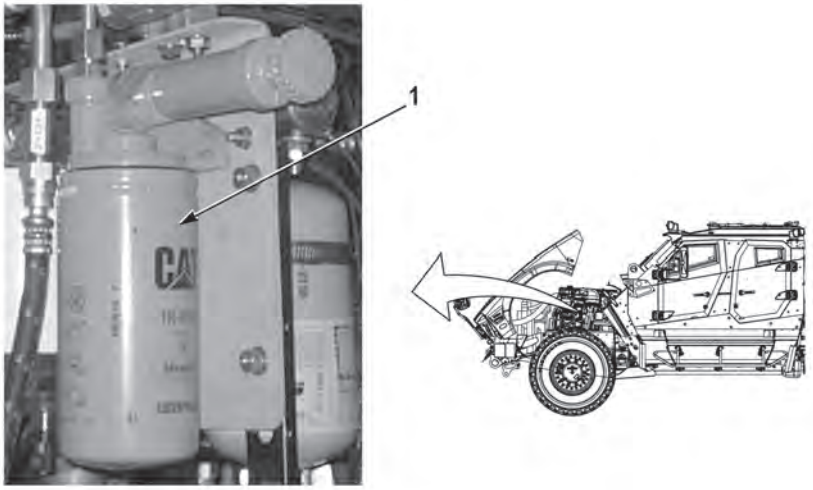
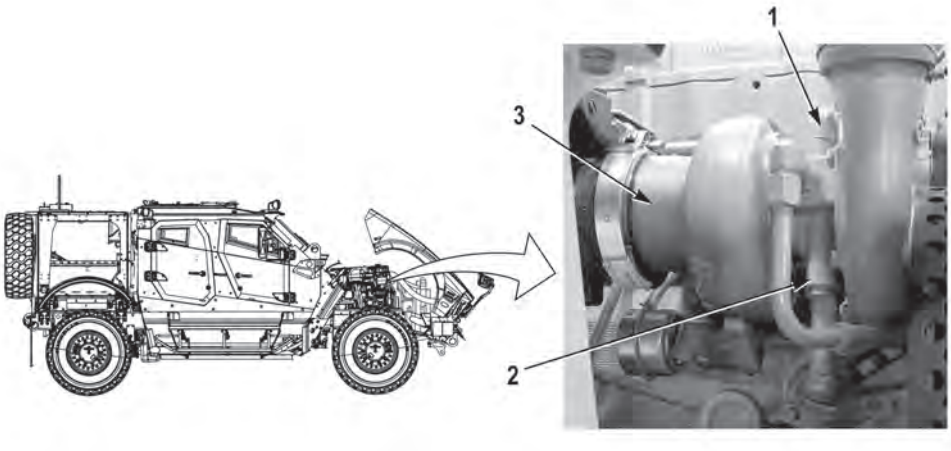
Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
17.					**FUEL FILTER AND LINES**	
	•				Check fuel filter (1) for damage or leaks.	Any fuel leak.
						
18.					**TURBOCHARGER**	
	•				a. Check turbocharger oil supply line (1) and the drain line (2) for damage or signs of leakage.	Any Class III leak.
				•	b. Inspect mounting screws and clamps on turbocharger (3) for looseness, damage, and exhaust leaks.	
						

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
19.					**BATTERIES** **WARNING** • **Do not smoke or use open flame near batteries. Batteries may explode from spark. Failure to comply may result in injury or death to personnel.** • **Lead-acid batteries contain sulfuric acid, which can cause severe burns. Avoid contact with skin, eyes, or clothing. Wear safety goggles and gloves. If battery electrolyte is spilled, take immediate action to stop its corrosive (burning) effects. If battery acid is spilled on clothing or vehicle, wash immediately with cold water. Neutralize with baking soda or household ammonia solution. If battery acid comes in contact with skin, flush with cold water to remove acid. If eyes are contacted, flush with cold water for at least 15 minutes. If swallowed, drink large amounts of water or milk, follow with milk of magnesia, beaten egg, or vegetable oil. Seek immediate medical attention.** • **Remove all jewelry, such as rings, dog tags, bracelets, etc. If jewelry contacts battery terminal or positive electrical circuit, a direct short may result in instant heating of tools, injury or death to personnel, or damage to equipment.** • **To prevent arcing, do not allow tools to contact batteries or other battery terminals. Failure to comply may result in injury or death to personnel.** **NOTE** • Prior to performing battery PMCS, ensure battery disconnect switch is OFF (WP 0007). Turn battery disconnect switch to ON when battery PMCS is completed. • Batteries are located in cargo deck over rear wheel wells along side cargo deck. Two on driver side and two on passenger side. • Perform check (a) for M1240/M1240A1. • Perform check (b) for M1245. a. Open battery covers (M1240/M1240A1) (WP 0062).	
	•					

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
19.					**BATTERIES (Continued)**	
	•				b. Notify Field Maintenance to open battery covers for M1245.	
	•				c. Inspect for any missing or damaged batteries (1).	Battery is missing or damaged.
	•				d. Inspect all batteries (1) for cracks or leaking casing.	Battery is damaged or leaking.
	•				e. Inspect terminal posts (2), cables and connections (3) for secure attachment, damage and evidence of burning.	Terminals or cables are broken, burned or loose.
	•			•	f. Check battery posts (2) and terminals (3) for corrosion.	Battery posts or terminals are corroded.
	•			•	g. Inspect battery isolator (4) for cracks and damage as well as loose, broken, corroded, or burned terminals (5), cables, and connections (3).	
	•				h. Inspect battery hold down (6) for proper installation, security, and missing hardware.	Battery hold down is not installed, secured, or is missing hardware.

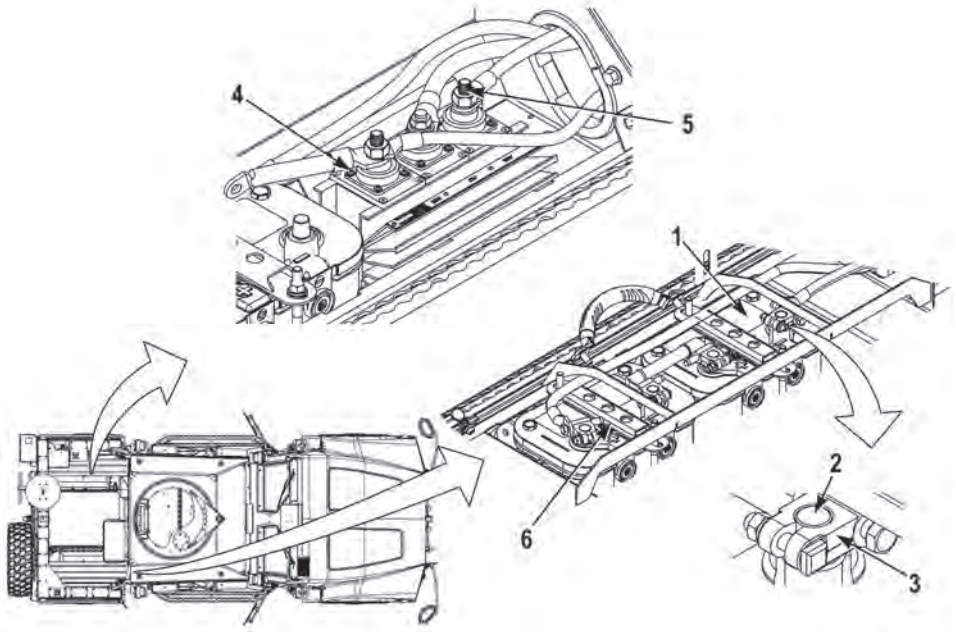


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
20.					**NATO SLAVE** **WARNING** **Use extreme care not to short out slave receptacle terminals. Remove all jewelry such as rings, ID tags, bracelets, etc. prior to working on or around slave receptacle. Jewelry and tools can catch on equipment, contact positive electrical circuits, and cause severe burns or electrical shock. Failure to comply may result in injury or death to personnel.**	
	•			•	Inspect slave receptacle (1) for loose cables, damage, or missing cover.	

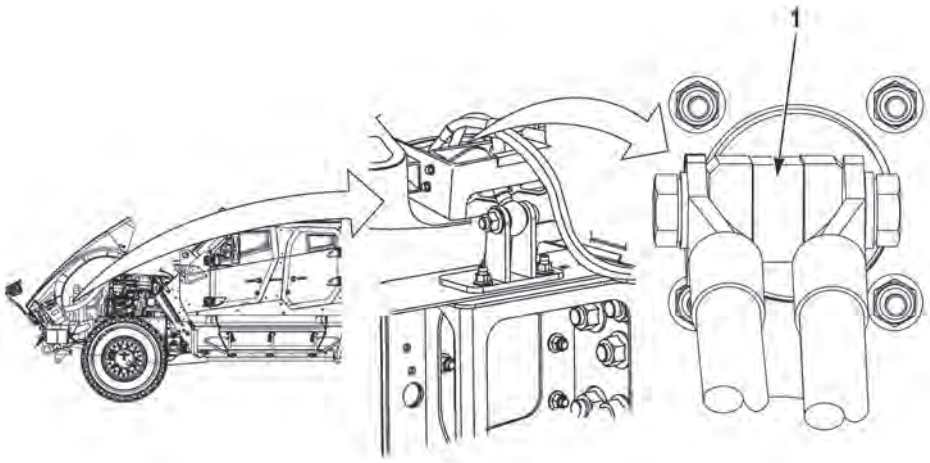


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

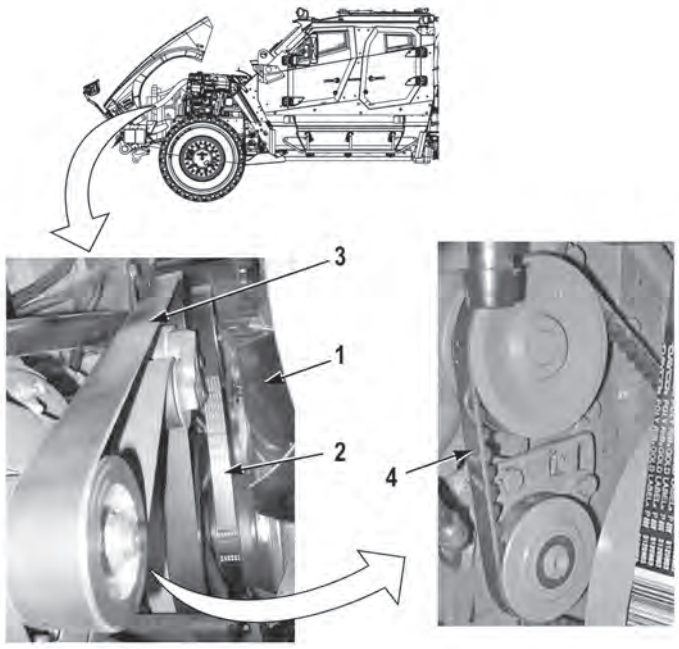
Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
21.					**COOLING FAN AND BELTS** **WARNING** **Keep hands and clothing clear of moving parts in engine compartment. Rotating parts can cause severe injury to personnel. Ensure that all guards are in place and do not wear loose clothing when conducting maintenance. Always check to ensure that area is clear of personnel and obstructions before starting engine. Failure to comply may result in injury to personnel.**	
	•				a. Check cooling fan (1) for looseness or damage.	Loose or damaged fan.
	•				b. Check air conditioner belt (2), alternator belt (3), and water pump belt (4) for cracking, fraying, or other damage.	Any damage that would prevent the fan belt or alternator belt from driving the cooling fan.
	•				c. Check air conditioner belt (2), alternator belt (3), and water pump belt (4) for proper tension. Belt has proper tension when belt can be depressed approximately 1/2 in. (1.3 cm) by normal pressure (10 to 15 lbs. [4.5 to 6.8 kg]).	Any belt that is broken or cracked to the belt fiber, has more than one crack (1/8 in. (3.2 mm) in depth or 50% of belt thickness) or has frays more than 2 in. (51 mm) long. Any belt is loose.
						

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
22.					**RADIATOR AND COOLANT LINES**	
					WARNING **Engine cooling system is hot and pressurized. Do not remove radiator cap while engine is hot; steam and hot coolant can escape and burn personnel. Allow the system to cool and remove cap slowly to relieve pressure. Failure to comply may result in serious injury or death to personnel.**	
					CAUTION **Use extreme care when cleaning radiator fins, charge air cooler fins, and A/C condenser fins to prevent damage to equipment.**	
	•		•		a. Check radiator (1) for damage and leaks. Check charge air cooler fins (2) for obstructions and clear obstructions as required.	Any Class III leak.
	•		•		b. Check A/C condenser fins (3) for obstructions and clear obstructions as required.	
	•		•		c. Check coolant hoses for leaks, cuts, loose hose clamps, and other obvious damage.	Any Class III leak.
		•			d. Check air conditioning compressor housing (4) for obvious damage.	
		•			e. Check air conditioning hoses for leaks, cuts, and other obvious damage.	

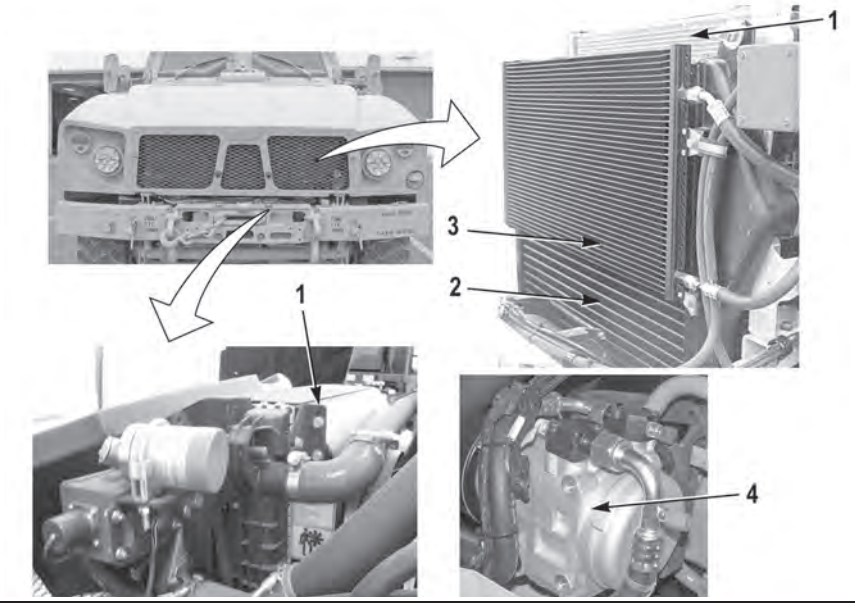


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
23.					**COOLANT OVERFLOW TANK AND COOLANT LEVEL (FOR VEHICLES EQUIPPED WITH COOLANT OVERFLOW TANK)**	
					WARNING • **Engine cooling system is hot and pressurized. Do not remove radiator cap while engine is hot; steam and hot coolant can escape and burn personnel. Allow the system to cool and remove cap slowly to relieve pressure. Failure to comply may result in serious injury or death to personnel.** • **Cooling system components become pressurized and extremely hot during normal operation. Use extreme care when working around hot components. Failure to comply may result in injury or death to personnel.**	
	•				a. Check coolant overflow tank (1) and cap (2) for damage or leakage.	Any Class III leak.
	•				b. Check coolant level in coolant overflow tank (1) to ensure it is above the COLD mark. If coolant is low, add coolant to bring it up above the COLD mark.	

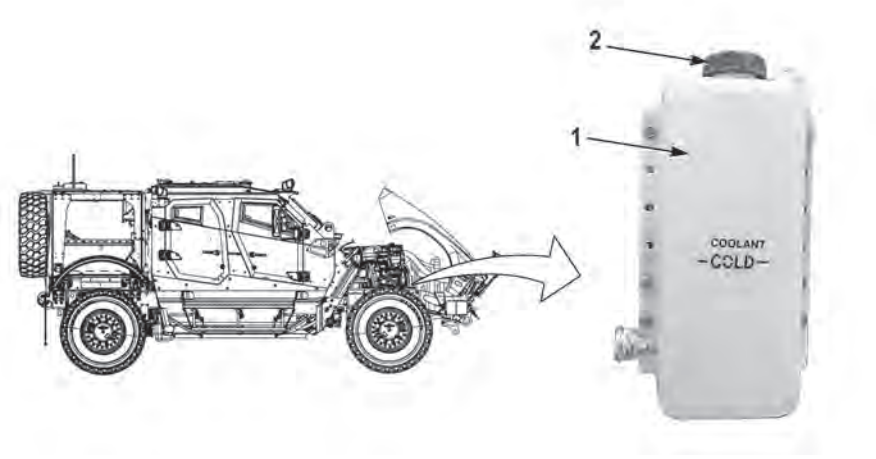


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
24.					**COOLANT SURGE TANK AND COOLANT LEVEL (FOR VEHICLES EQUIPPED WITH COOLANT SURGE TANK)** **WARNING** • **Engine cooling system is hot and pressurized. Do not remove radiator cap while engine is hot; steam and hot coolant can escape and burn personnel. Allow the system to cool and remove cap slowly to relieve pressure. Failure to comply may result in serious injury or death to personnel.** • **Cooling system components become pressurized and extremely hot during normal operation. Use extreme care when working around hot components. Failure to comply may result in injury or death to personnel.**	
	•				a. Check coolant surge tank (1) and cap (2) for damage or leakage.	Any Class III leak.
	•				b. Check coolant level in coolant surge tank (1) to ensure it is visible in sight glass (3). If coolant is low, add coolant until visible in sight glass (3).	

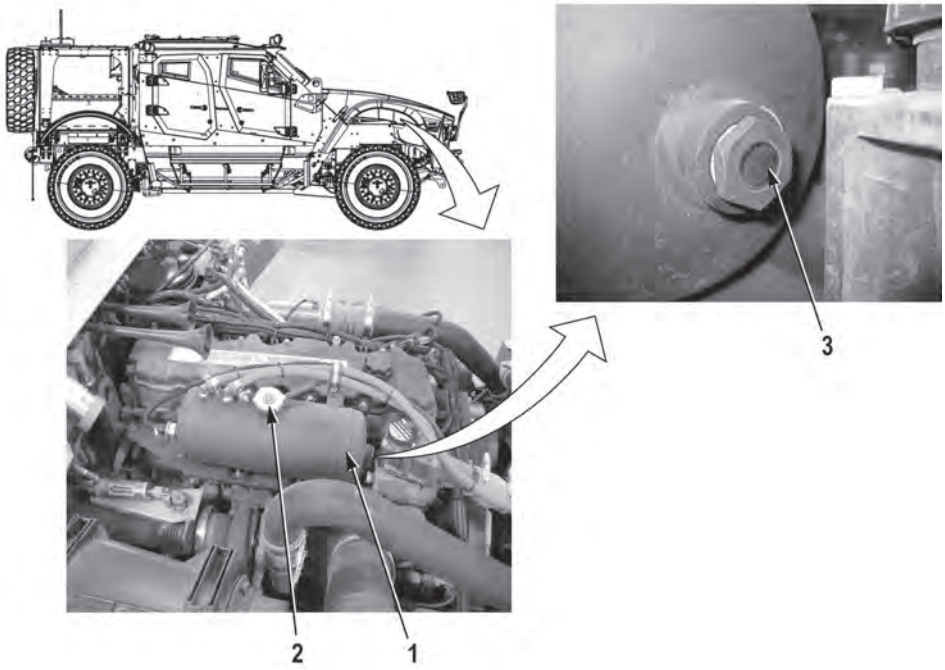


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

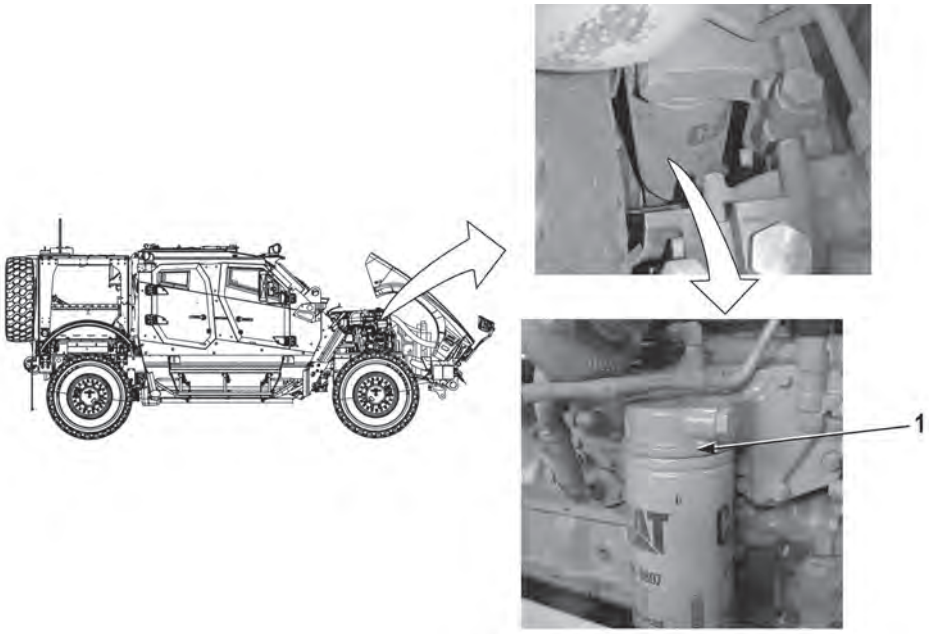
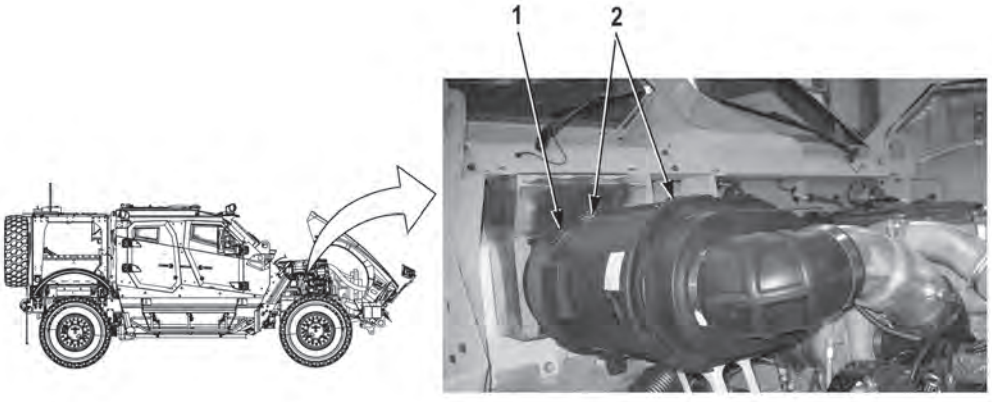
Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
25.					**OIL FILTER**	
	•				Check engine oil filter (1) for leaks or damage.	Any Class III leak.
						
26.					**AIR INTAKE SYSTEM**	
	•				a. Check air intake system for loose clamps and punctured or damaged hoses or tubes.	Any damage that would allow unfiltered air to enter engine.
	•				b. Check air cleaner housing (1) for loose clips (2) and damage. Secure clips as required.	Any damage that would allow unfiltered air to enter engine.
	•				c. Check rest of engine compartment for serviceability and looseness of tubes, hoses, wires, nuts, and bolts.	
						

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

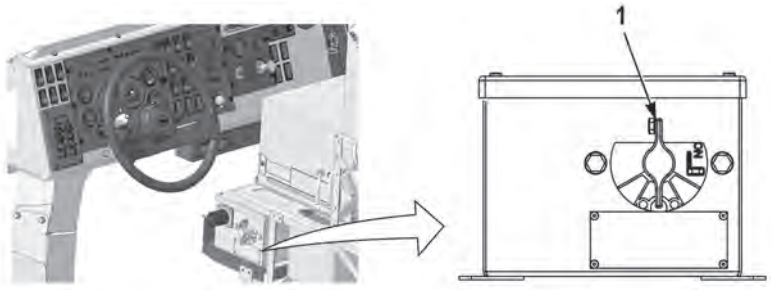
Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
27.					**ENGINE COMPARTMENT FIRE SUPPRESSION SYSTEM**	
					WARNING • **Ensure vehicle battery disconnect switch is OFF before inspecting engine compartment fire suppression system. Failure to comply may result in injury or death to personnel.** • **Do not smoke or have open flame inside engine compartment, as fire suppression system may activate. Failure to comply may result in injury to personnel.**	
	•				a. Turn vehicle battery disconnect switch (1) to OFF (WP 0007).	
						
					NOTE Vehicles will be equipped with either four or five aerosol generators.	
	•				b. Check aerosol generators (2) for damage, discharged condition, and date stamp.	Aerosol generators are damaged, discharged, or date stamp is more than ten years old.
						

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
27.					**ENGINE COMPARTMENT FIRE SUPPRESSION SYSTEM (Continued)**	
					WARNING **Blue transportation caps must be removed from aerosol generators prior to vehicle operation. Failure to comply may result in injury or death to personnel.**	
					NOTE • Perform checks (c) and (d) for vehicles equipped with five aerosol generators and sensor wire detection. • Perform checks (e) and (f) for vehicles with four aerosol generators and thermal sensor detection.	
	•				c. Check blue transportation caps (3) are removed from five aerosol generators (2).	Blue transportation caps are present.
	•				d. Check sensor line (4) for damage, dirt, or grease.	Sensor line is damaged.

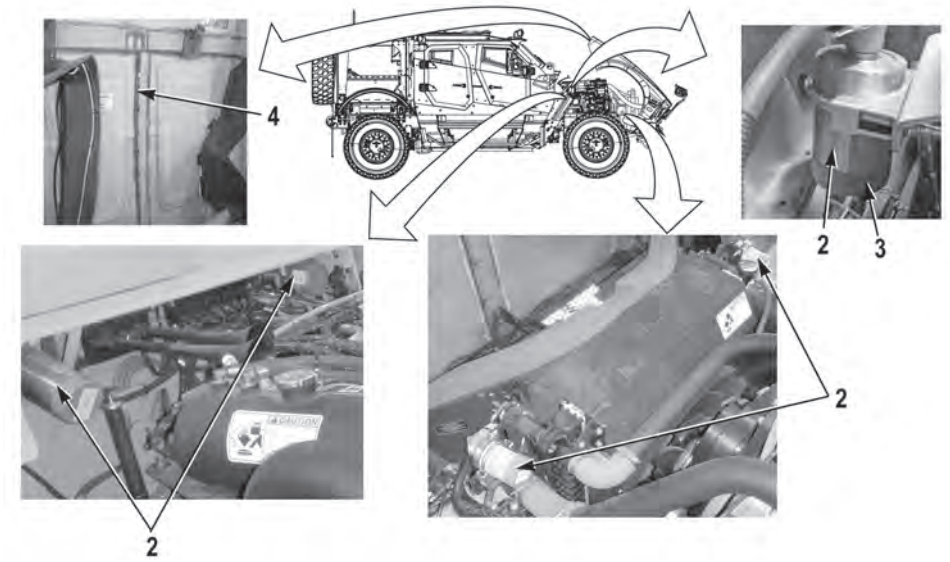


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

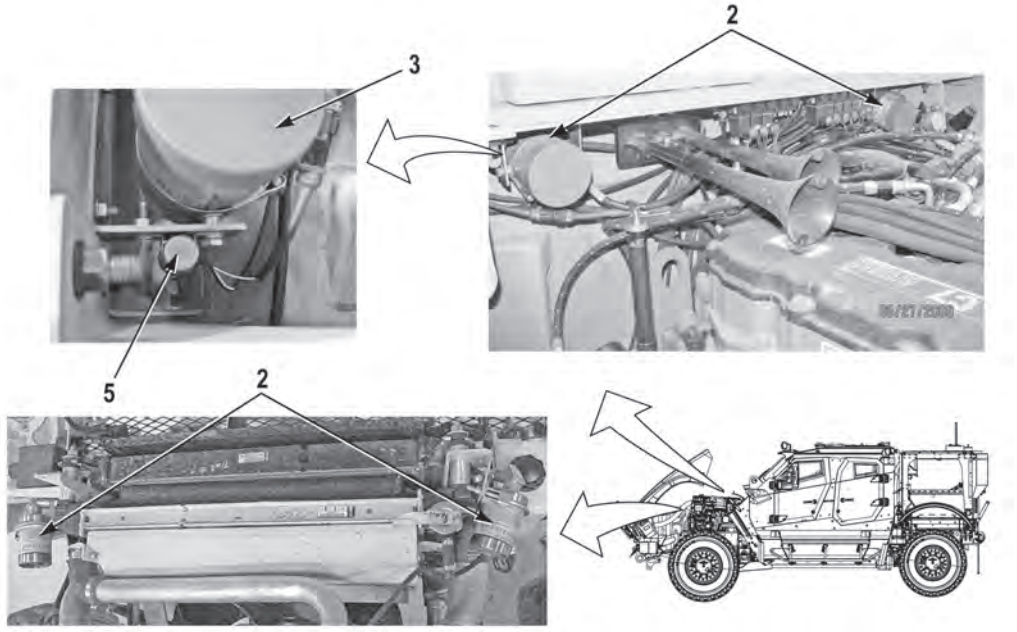
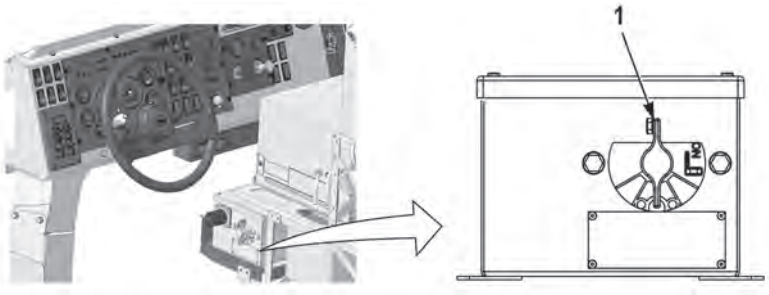
Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
27.					**ENGINE COMPARTMENT FIRE SUPPRESSION SYSTEM (Continued)**	
	•				e. Check blue transportation caps (3) are removed from four aerosol generators (2).	Blue transportation caps are present.
	•				f. Check thermal sensors (5) for damage, dirt, dust, or grease. Clean sensors, as required.	Thermal sensors are damaged.
						
	•				g. Turn vehicle battery disconnect switch (1) to ON (WP 0007).	
						

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
27.					**ENGINE COMPARTMENT FIRE SUPPRESSION SYSTEM (Continued)**	
	•				h. Turn vehicle start switch to ON (engine OFF) (WP 0007) and check the LEDs (6 and 7) on engine fire suppression system control panel (8) in capsule interior for illumination.	If green system OK LED (5) is not illuminated or SERVICE SYSTEM LED (6) is flashing.
	•				i. Ensure toggle switch safety cover (9) is secured with wire.	Safety wire is missing.

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
28.					**CAPSULE INTERIOR FIRE SUPPRESSION SYSTEM**	
					WARNING	
					Capsule interior fire suppression system uses optical fire detectors. Do not smoke or have open flame inside the capsule, as fire suppression system may activate. Failure to comply may result in injury to personnel.	
	•				a. Verify optical sensors (1) are not damaged, are in position, clear of dirt and dust and not obstructed.	Sensors are damaged or out of position/missing.
	•				b. Ensure both self-test LED's (2) are flashing.	
	•				c. Turn vehicle battery disconnect switch (3) to ON position (WP 0007).	
					NOTE Wait 15 seconds after turning vehicle start switch to ON before checking POWER LED for illumination.	
	•				d. Turn vehicle start switch to ON (engine OFF) (WP 0007) and check capsule interior fire suppression system control panel (4) POWER LED (5) for solid illumination.	POWER LED is red, flashing, or not illuminated.
	•				e. Check capsule interior fire suppression system control panel (4) FAULT LED (6) for fault indication.	FAULT LED flashes.

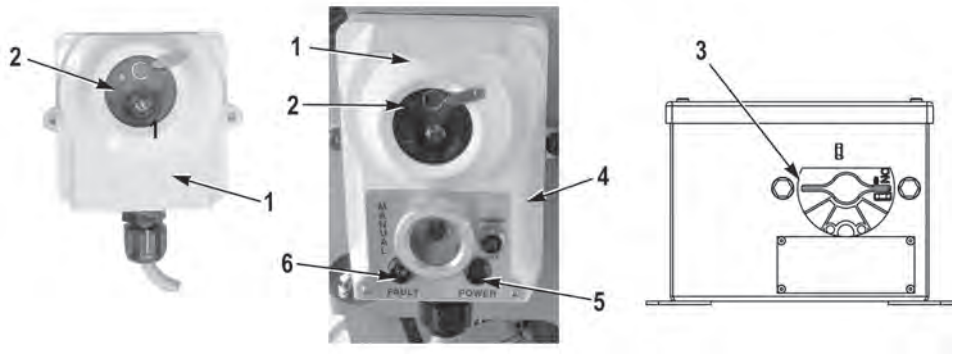


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
28.					**CAPSULE INTERIOR FIRE SUPPRESSION SYSTEM (Continued)** **NOTE** • Inspection mirror and flashlight may be required to check pressure gauge. • Pressure gauge must be checked when capsule temperature is above 0ºF (-17.8ºC). If capsule temperature is below 0ºF (-17.8ºC), utilize HVAC to heat vehicle to the minimum inspection criteria (WP 0007).	
	•		•		f. Check pressure gauge (7) on extinguisher cylinder (8) for indicator needle positioning, discharged condition, and check extinguisher cylinder (8) for damage and date stamp (9).	Gauge indicator is not in green range of gauge, extinguisher cylinder is damaged, or date stamp is more than six years old.

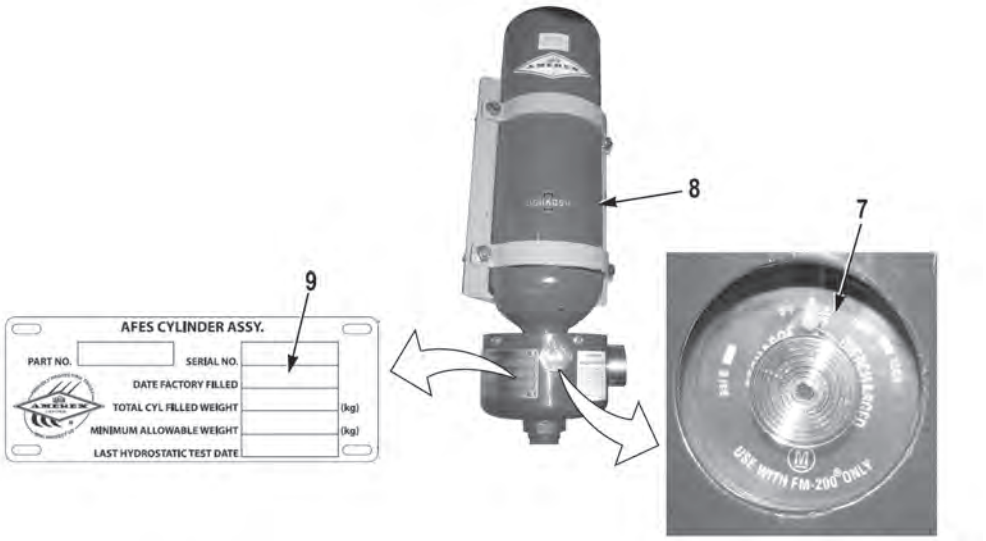


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
29.					**LIGHTS** **NOTE** • To determine location of switches needed to operate lights for the following checks, refer to Location and Function of Controls and Indicators (WP 0007). • Prior to turning on lights, battery disconnect switch must be turned ON (WP 0007). • An assistant is needed to perform the light checks. • When light checks are completed, ensure all lights are turned OFF (WP 0007).	
	•	•			a. Position blackout select switch (1) in down position and headlight switch (2) in full up position. Ensure headlights (3) and parking light function (4) of front composite lights (5) illuminate. Operate dimmer switch (6) and ensure headlights (3) change from high beam to low beam and ensure high beam indicator (7) on dash operates properly.	Headlights are inoperable.
	•	•			b. With headlight switch (2) ON, ensure dash light dimmer (8) switch operates properly.	

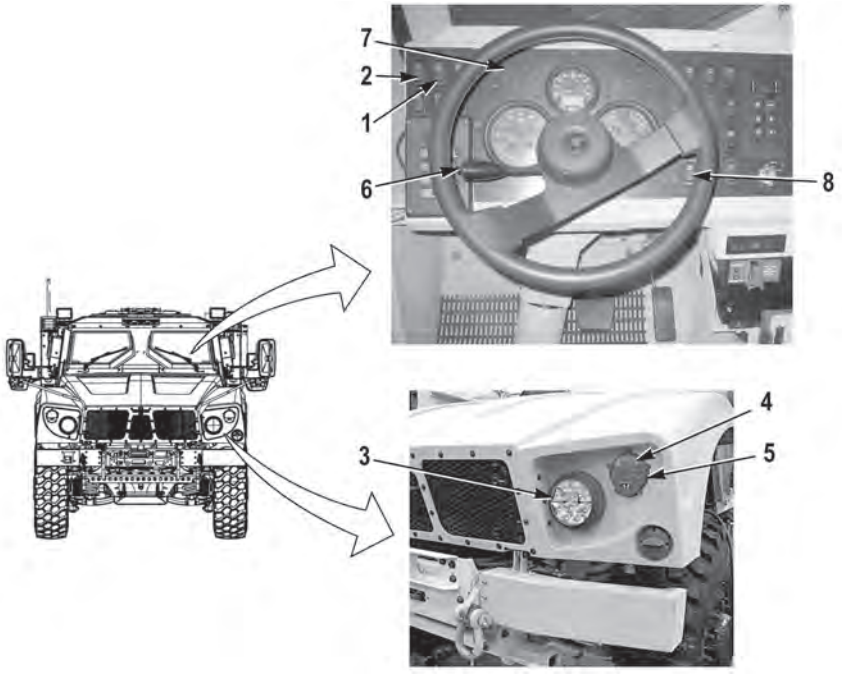


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
29.					**LIGHTS (Continued)**	
	•				c. Operate turn signal lever (9) and ensure turn signals (10) and (11) function.	
	•				d. Push in emergency flasher control switch (12) and ensure turn signals (10) and (11) blink.	
	•				e. Position blackout select switch (1) to up position and blackout light switch (13) in full up position, and ensure blackout drive headlight (14) and blackout marker lights (15) illuminate.	
	•				f. Check marker lights (16) and reflectors (17) for serviceability.	

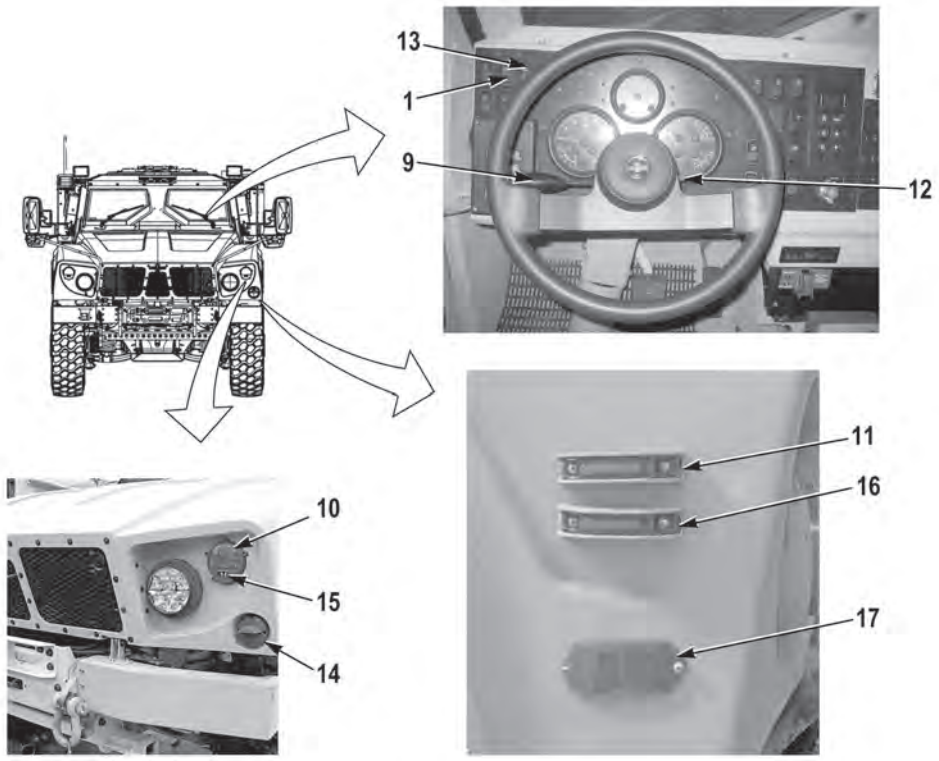


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
29.					**LIGHTS (Continued)**	
	•				g. Position blackout select switch (1) in down position and headlight switch (2) in full up position. Ensure parking light function (16) of rear composite lights (17) illuminate. Operate service brake pedal and ensure brake light function (18) of rear composite lights (17) illuminate.	Brake lights are inoperable or half of LED's are unserviceable.
	•				h. Operate turn signal lever (9) and ensure turn signal function (19) of rear composite lights (17) blink.	
	•				i. Push in emergency flasher control switch (12) and ensure parking light function (16) of rear composite lights (17) blink.	
	•				j. Position blackout select switch (1) in up position and blackout light switch (13) in full up position, and ensure blackout parking light function (20) of rear composite lights (17) illuminate. Operate service brake pedal and ensure blackout marker brake light function (21) of rear composite lights (17) illuminate.	

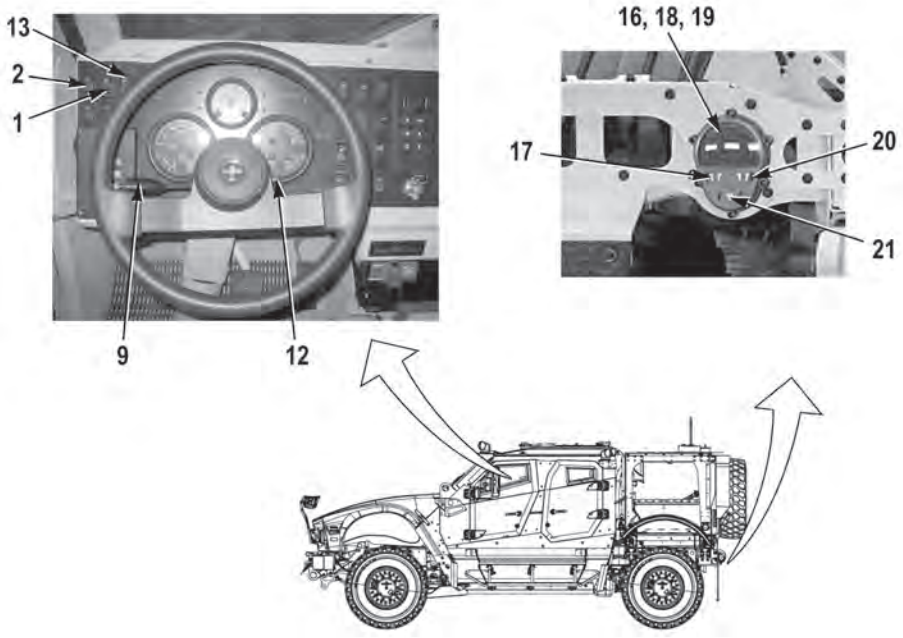


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
29.					**LIGHTS (Continued)**	
	•				k. Move front spotlight ON/OFF switch (22) to ON position and ensure spotlight ON indicator (23) and both front spotlights (24) illuminate.	
	•				l. Operate front spotlight joystick (25) and ensure both front spotlights (24) move properly.	
	•				m. Move rear spotlight ON/OFF switch (26) to ON position and ensure spotlight ON indicator (27) and both rear spotlights (28) illuminate.	
	•				n. Operate rear spotlight joystick (29) and ensure both rear spotlights (28) move properly.	

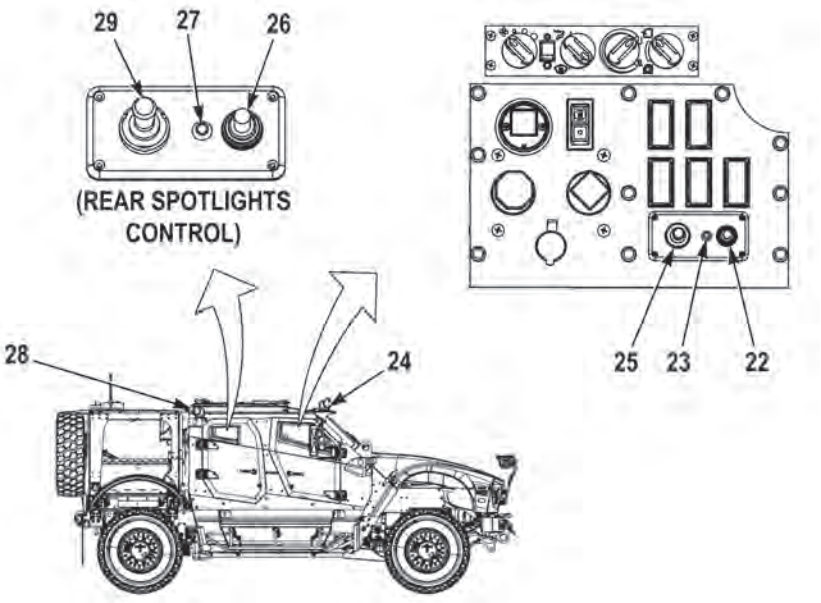


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

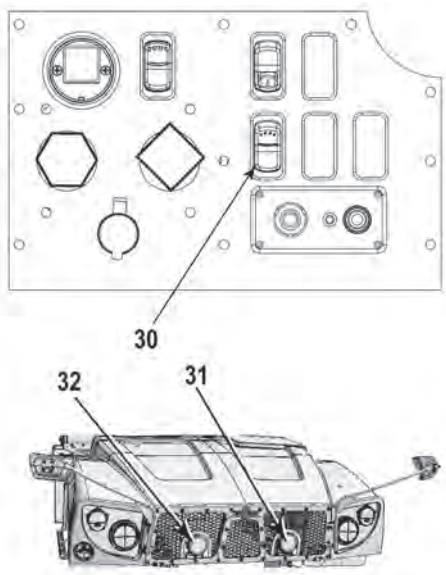
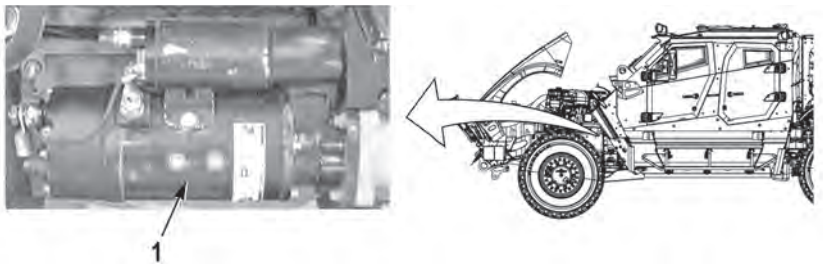
Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
29.					**LIGHTS (Continued)**	
					NOTE Perform check (o) for M1245.	
	•				o. Move IR light switch (30) to center position and ensure driver side IR light (31) illuminates. Move IR light switch (30) to upper position and ensure both IR lights (31, 32) illuminate.	
						
30.					**ENGINE OPERATION**	
				•	a. Inspect starter (1) for secure mounting and loose or damaged wires.	Starter is loose or has loose or damaged wires.
	•				b. Start engine (WP 0020) and check starter (1) for slow operation or unusual noises when cranking.	Starter is noisy or cranks slowly.
		•			c. While running, check engine for excessive smoke, unusual noise, rough running, or misfiring.	Any of these conditions are found.
		•			d. Drive vehicle and ensure engine brake operates (WP 0024).	
						

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
31.					**CAPSULE INTERIOR**	
	•				a. Drain air system (WP 0060).	
	•				b. Start engine (WP 0020).	
	•				c. Ensure low air indicator light (1) remains illuminated and warning buzzer sounds until front air pressure gauge (2) and rear air pressure gauge (3) reach 64 to 76 psi (441 to 524 kPa).	Low air indicator light or warning buzzer fails to operate.
	•				d. Check to ensure front air pressure gauge (2) and rear air pressure gauge (3) indicate a reading between 90 and 125 psi (621 and 862 kPa).	Air pressure is below 90 psi (621 kPa) or exceeds 125 psi (862 kPa).
	•				e. Check to ensure oil pressure gauge (4) indicates pressure at idle and increases with engine speed.	Oil pressure does not increase as engine speed increases.
	•				f. Check to ensure water temperature gauge (5) reads below 220°F (104°C).	Water temperature exceeds 220°F (104°C).
	•				g. Check to ensure transmission oil temperature gauge (6) reads below 250°F (121°C).	Transmission oil temperature exceeds 250°F (121°C).
	•				h. Check to ensure voltage (7) reads between 24 and 30 volts, refer to (WP 0027).	Voltage is below 24 volts or above 30 volts.
		•			i. Check to ensure air restriction indicator (8) reads below 20 inches.	Air restriction indicator reads above 20 inches.

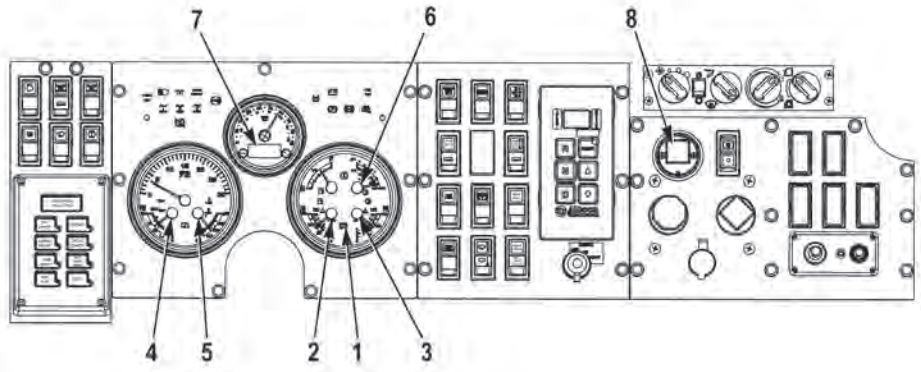


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
31.					**CAPSULE INTERIOR (Continued)**	
	•				j. Check seat belts (9) and buckles (10) for serviceability and proper operation (WP 0016).	Damaged, missing, or inoperable seat belts.

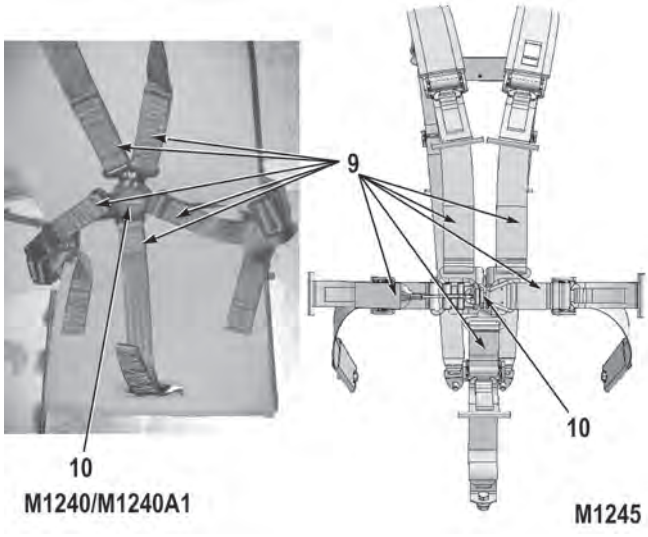


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
31.					**CAPSULE INTERIOR (Continued)**	
	•				k. Ensure fuel gauge (11) operates.	
	•				l. Check horn button (12) for proper operation.	
					NOTE With ignition switch OFF, tachometer will not return to zero. Tachometer will “zero out” and indicate correct rpm when ignition switch is ON and engine is operating.	
	•				m. Ensure tachometer (13) indicates 600 to 800 rpm with engine idling.	
					NOTE With ignition switch OFF, speedometer will not return to zero. Speedometer will “zero out” and indicate correct speed when ignition switch is ON and vehicle is in motion.	
		•			n. Drive vehicle and ensure speedometer (14) operates properly.	

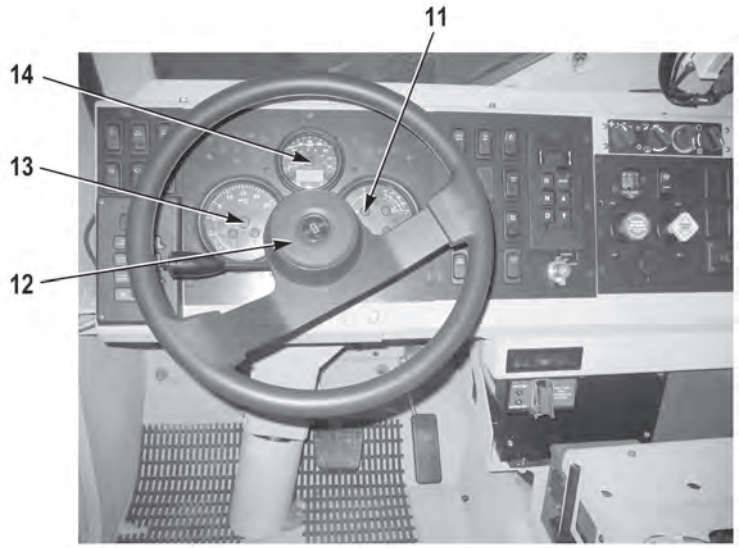


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
31.					**CAPSULE INTERIOR (Continued)**	
	•				o. Check windshield washer control (15) and windshield wiper control (16) for proper operation.	
	•	•			p. Check front fan control (17) for proper fan operation in all settings.	
	•	•			q. Check heat and defrost controls (18) for proper operation. Check for warm airflow.	
	•	•			r. Check front air conditioner (19) for proper operation (WP 0007). Wait 5 minutes to allow temperature to stabilize. Check vents for cool air.	Climatic conditions require air conditioning and A/C is inoperable, or vented air is not cooler than ambient temperature.
	•	•			s. Check vent control switch (20) for proper operation.	

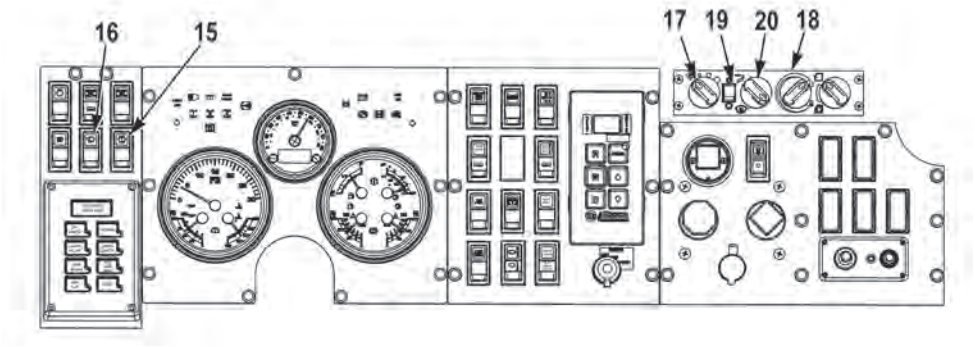


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

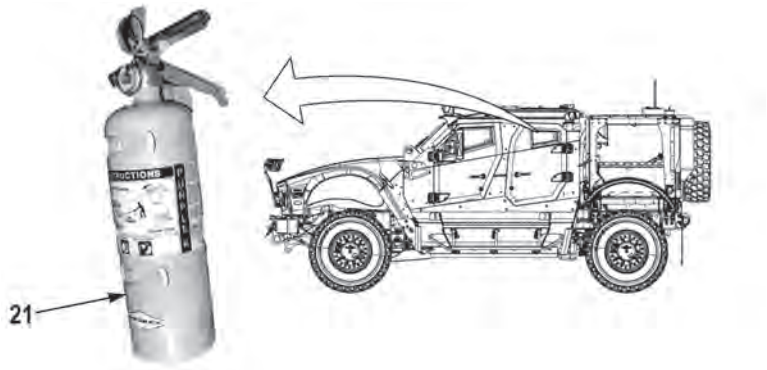
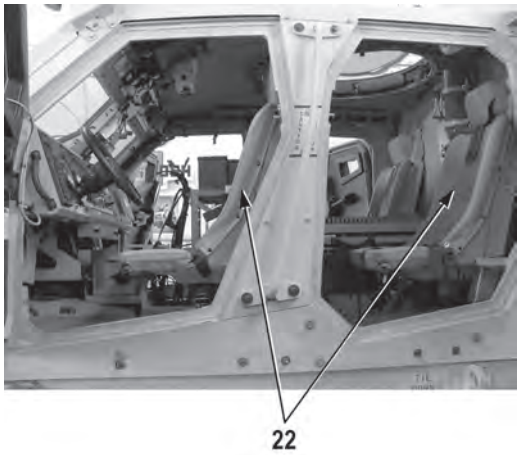
Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
31.					**CAPSULE INTERIOR (Continued)** **NOTE** • M1240 fire extinguishers are located on radio rack. • M1240A1/M1245 fire extinguishers are located under dash on driver and passenger side.	
	•				t. Check two fire extinguishers (21) for proper charge, damage, or broken or missing seal.	Fire extinguisher not present, not properly charged, or seal broken or missing.
						
				•	u. Inspect driver and passenger seats (22) for serviceability.	Front seats do not adjust. Seat pans or welds are cracked or bent. Frame missing seat cushion. Shocks do not properly support weight of occupant. Shocks bent or leaking oil. Seats not securely mounted.
						

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

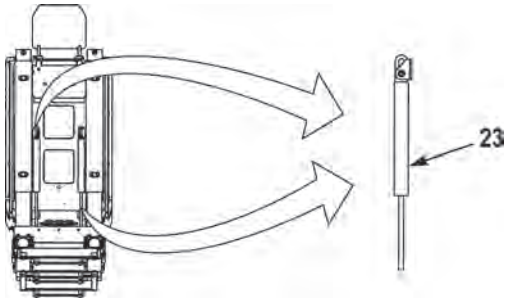
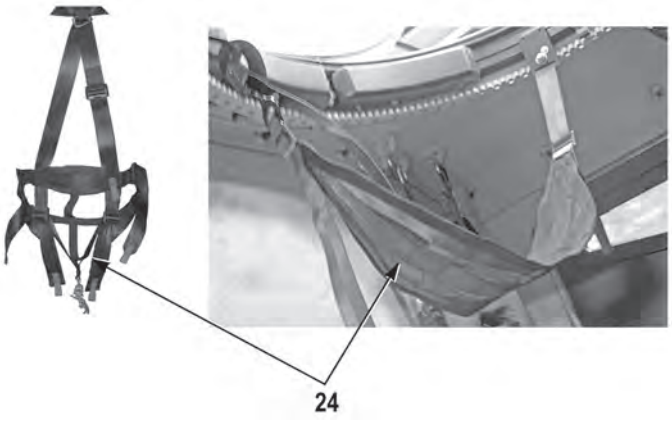
Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
31.					**CAPSULE INTERIOR (Continued)**	
					NOTE Perform check (v) for M1240A1.	
	•		•		v. Inspect for bent or leaking seat shocks (23) and verify shocks (23) properly support weight of occupant.	Leaking or damaged.
						
					NOTE Turret Gunner Restraint System (TGRS) is considered a personnel restraint device and falls under requirements outlined in AR 385-10. If the TGRS harness is not present, is unserviceable, or is inoperable refer to the Commander or their representative who can make the decision to authorize dispatch of the vehicle if the gunners position is manned based on urgency of mission requirements (refer to AR750-1).	
	•		•		w. If equipped inspect Turret Gunner Restraint System (TGRS) harness (24) for any frayed, cut, broken, clips or straps.	Frayed, cut, broken, clips or straps. TGRS harness not present.
						

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
31.					**CAPSULE INTERIOR (Continued)**	
	•		•		x. Inspect gunners retractor belt (25) for any cuts or damage. If retractor fails to lock with a swift pull in any direction report damage to field maintenance.	
	•		•		y. Inspect barrel nut (26) for tightness and exposed threads.	Barrel nut is not tight or threads are exposed or damaged.
	•		•		z. Inspect emergency relief swivel (27) for connection and ensure emergency relief swivel (27) remains secure on retractor (28).	

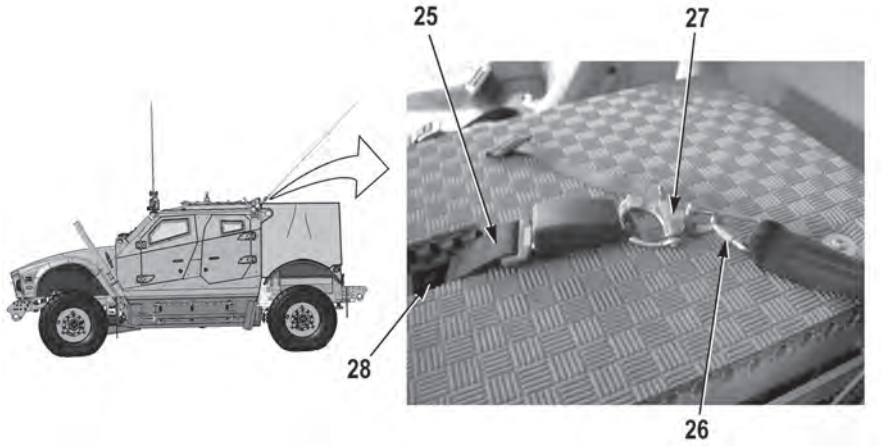


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
31.					**CAPSULE INTERIOR (Continued)**	
	•	•			aa. Check rear air conditioner (25) for proper operation (WP 0007). Wait 5 minutes to allow temperature to stabilize. Check vents for cool air.	Climatic conditions require air conditioning and A/C is inoperable, or vented air is not cooler than ambient temperature.
	•	•			ab. Check rear heat control (26) (M1240/M1240A1) for proper operation.	
	•	•			ac. Check rear fan control (27) for proper operation in all settings.	
	•	•			ad. Check all visible nuts and bolts for looseness and corrosion.	
	•				ae. Check air conditioner louvers (28) for damage or debris.	

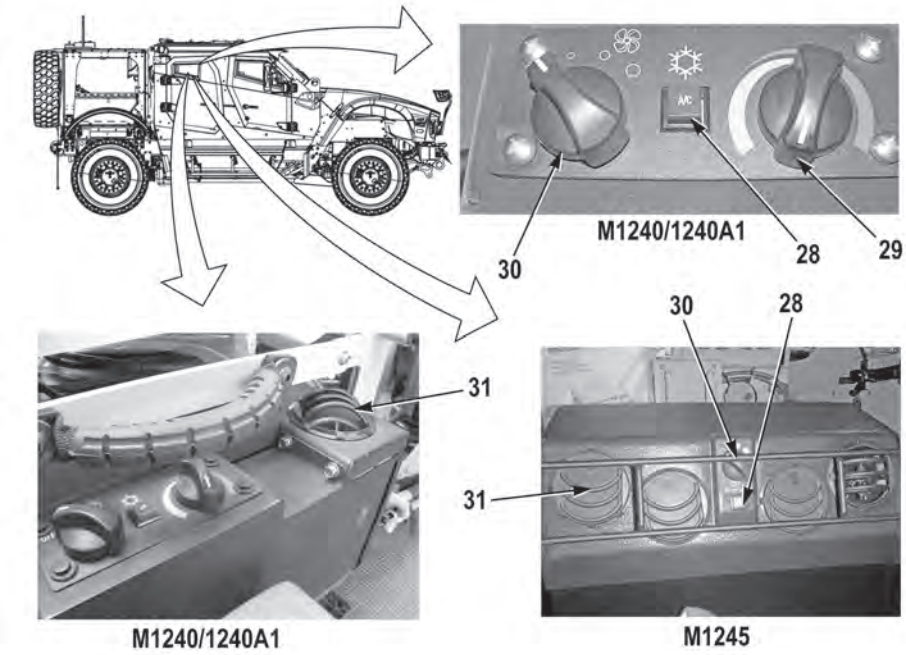


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
32.					**CHECK-6 COMPONENTS**	
	•		•		a. Check control boxes (1) for obvious damage and secure mounting.	
	•		•		b. Check mounting bracket (2) for missing or loose hardware.	
	•		•		c. Check connectors (3) for security.	
					NOTE Refer to Check-6 operation (WP 0036) for detailed information on operating Check-6 vision system.	
	•		•		d. Turn power switch (4) to ON position.	
					NOTE • The LAMP TEST button illuminates three LEDs (PWR, VIDEO IN, VIDEO OUT). Power LED will stay illuminated green indicating power. • VIDEO IN and VIDEO OUT will illuminate amber when LAMP TEST button is pressed or loss of signal is indicated.	
	•		•		e. Check three LEDs (5) by pressing the LAMP TEST button (6).	
	•		•		f. Check that the PWR LED (5) is the only one illuminated.	

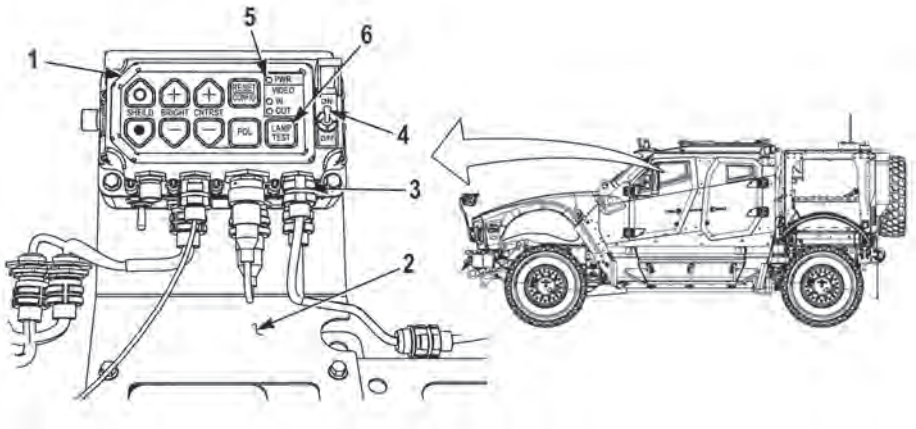
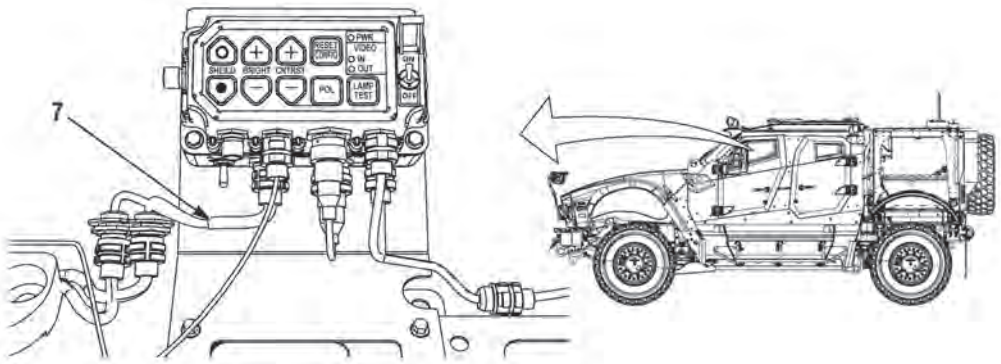


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
32.					**CHECK-6 COMPONENTS (Continued)**	
	•		•		g. Check all cables (7) for obvious damage.	Cables are damaged.
	•		•		h. Check that all cables (7) are secure and away from moving parts.	



	•		•		i. Check taillights (8) for obvious damage, dirt, and debris.	

CAUTION

Do not move camera shields by hand. Failure to comply may result in damage to equipment.

NOTE

Refer to Check-6 operation (WP 0036) for detailed information on operating Check-6 vision system.

	•		•		j. Check operation of camera shields (9).	

NOTE

Perform Step (k) if DVE display is present.

	•		•		k. Verify that image is being displayed on DVE display (10).	

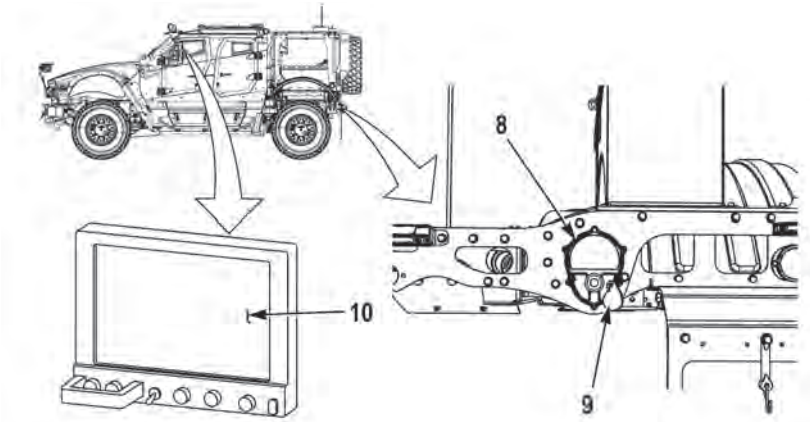


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
32.					**CHECK-6 COMPONENTS (Continued)** **WARNING** **Camera glass may become very hot when exposed to sun or when in a hot environment. Avoid contacting hot glass with hands or skin. Failure to comply may result in injury to personnel.** **CAUTION** **Glass must only be cleaned with a lint-free cloth and a mild solution of warm water and soap. Failure to comply may result in damage to equipment.**	
	•		•		l. Check for broken, scratched, or dirty camera lens glass (11).	

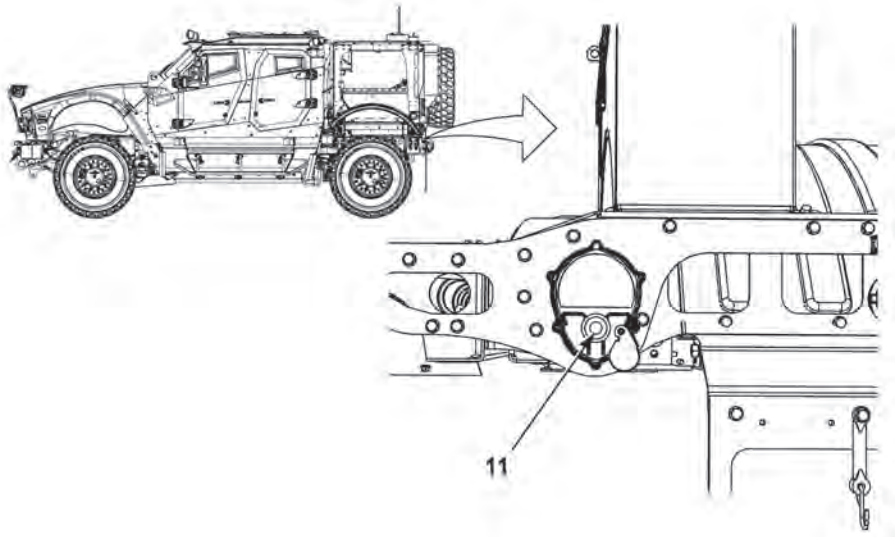


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
32.					**CHECK-6 COMPONENTS (Continued)**	
		•			m. Check that the BRIGHT buttons (12) function properly.	
		•			n. Check that the CNTRST buttons (13) function properly.	
		•			o. Check that the POL button (14) functions properly.	
		•			p. Check for missing or loose mounting hardware (15).	

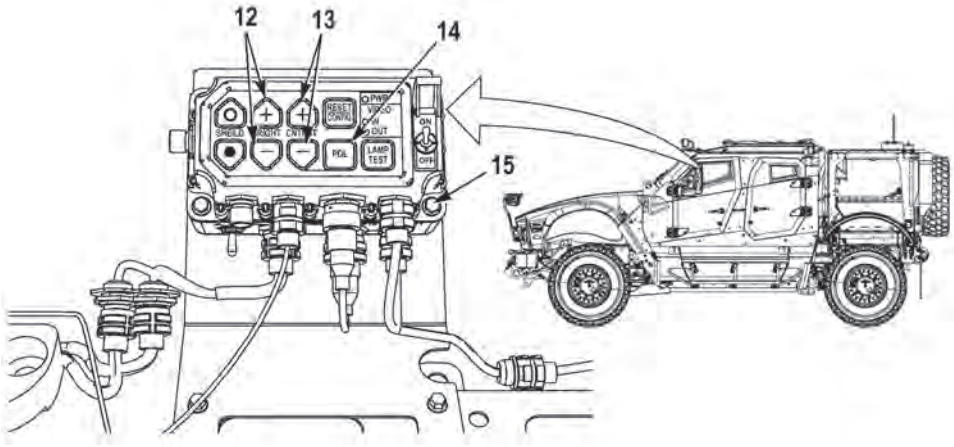


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

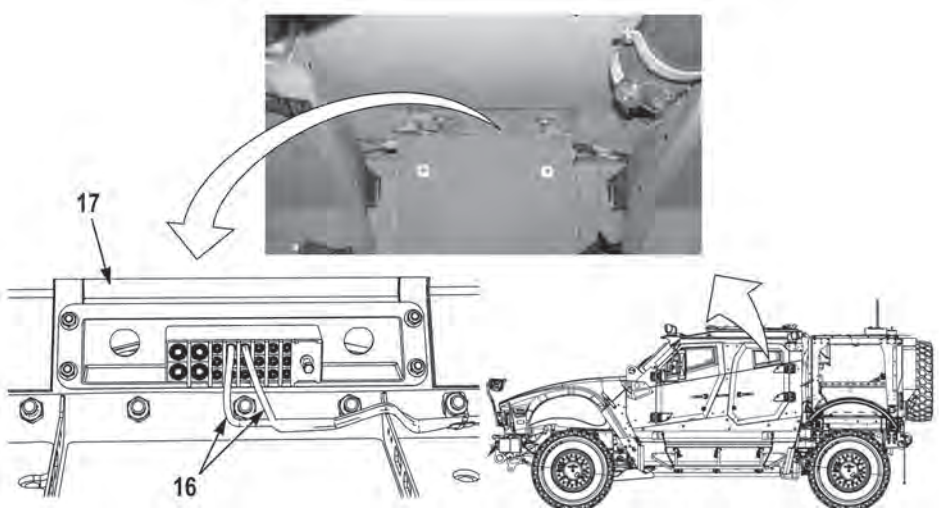
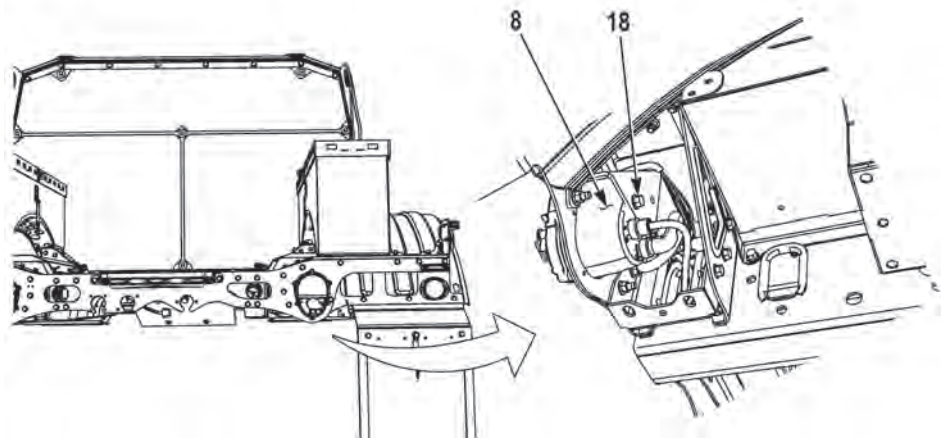
Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
32.					**CHECK-6 COMPONENTS (Continued)**	
			•		q. Check GFE and camera cables (16) for secure mounting on Roxtec assembly (17).	Mounting is not secure.
						
				•	r. Check taillights (8) for loose or missing mounting hardware (18).	Mounting hardware is missing.
				•	s. Check taillights (8) for obvious damage.	Taillights are damaged.
						

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
33.					**AIR DRYER**	
				•	a. Inspect air dryer (1) for punctures and obvious damage.	Air dryer is punctured.
				•	b. Check air dryer (1) for loose mounting screws and loose or damaged air lines and fittings.	Air lines or fittings loose or damaged.
				•	c. Check wires to air dryer (1) for proper connection and damage.	Wires are damaged or disconnected.
	•				d. Start engine (WP 0020).	
	•				e. Check that air dryer (1) purges when governor shuts off air compressor at 125 psi (862 kPa).	Air dryer does not purge. Air dryer is leaking.

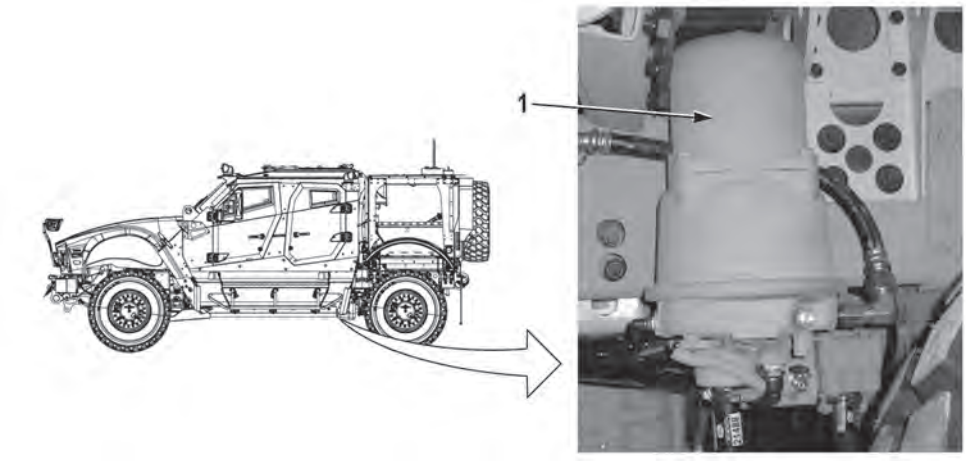


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
34.					**PARKING BRAKE** **WARNING** **Prior to performing brake test, ensure area 30 ft. (9 m) to front of vehicle is clear of objects and personnel. Failure to comply may result in injury or death to personnel.**	
	•	•			Apply parking brake (1). Select D (drive) on transmission range selector (2) and run engine at 1000 rpm. Vehicle should not move. Park vehicle (WP 0025).	Vehicle moves when parking brake is applied.

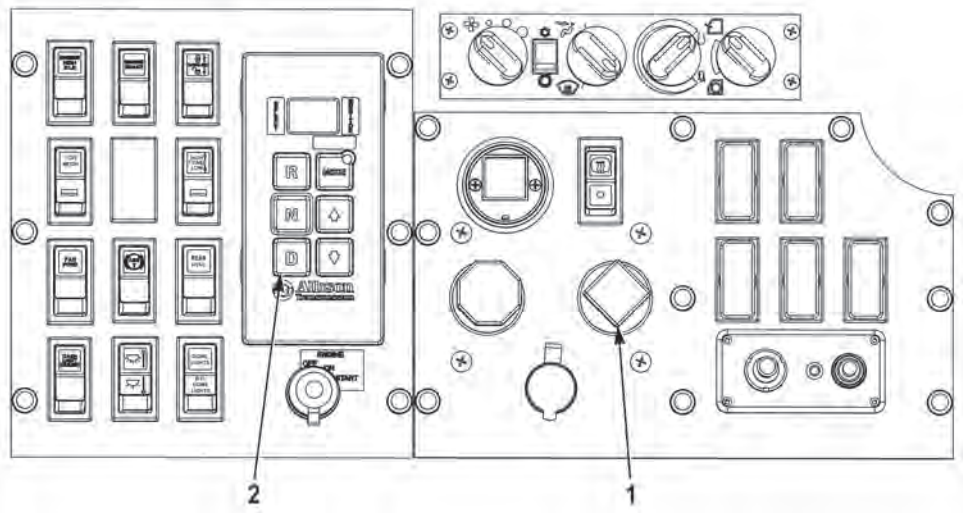


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
35.					**SERVICE BRAKE STALL TEST** **WARNING** **Prior to performing brake test, ensure area 30 ft. (9 m) to front of vehicle is clear of objects and personnel. Failure to comply may result in injury or death to personnel.**	
	•	•			Apply service brake (1). Select D (drive) on transmission range selector (2) and run engine at 1000 rpm. Vehicle should not move. Park vehicle (WP 0025).	Vehicle moves when service brake is applied.

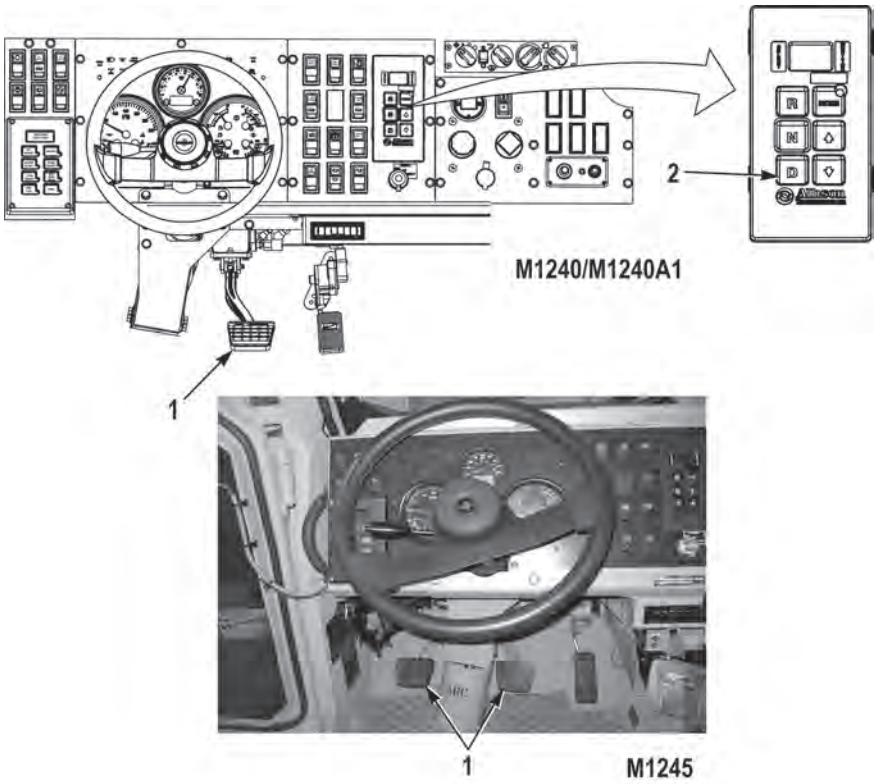


Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
36.					**TRANSMISSION FLUID** **CAUTION** **Do not permit dirt, dust, or grit to enter transmission filler tube. Thoroughly clean dipstick handle and end of filler tube. Serious internal transmission damage can result if transmission is contaminated.** **NOTE** If the transmission oil temperature is between 160° and 250°F (71° and 121°C), go directly to the HOT CHECK procedure. If there is evidence of transmission oil leakage, contact Field Maintenance. If the transmission oil temperature is less than 160°F (71°C), go to the next Step, COLD CHECK procedure. **COLD CHECK:** The COLD CHECK determines if the transmission has enough fluid to be operated safely until a HOT CHECK can be made. a. Apply parking brake (WP 0025). b. If the engine has been shut down for an extended time, park the vehicle on a level surface and apply the parking brake. c. Idle engine at (500 to 800 rpm) in N (neutral) for about one minute. Shift to D (drive) and then to R (reverse) to clear the hydraulic circuits of air. Shift to N (neutral) and leave engine at idle.	
	•					
	•					
	•					

Table 1. Operator/Crew Preventive Maintenance Checks and Services (PMCS). (Continued)

Note: These checks are to be made in the order listed, within designated intervals.

B-Before Operation D-During Operation A-After Operation M-Monthly

Item No.	Interval				ITEM TO BE INSPECTED/ PROCEDURE: Check for and have repaired, filled, or adjusted as needed.	Not Mission Capable If:
	B	D	A	M		
36.					**TRANSMISSION FLUID (Continued)**	
	•		•		d. Remove transmission dipstick (1).	
					CAUTION **If transmission fluid is too high and needs to be drained, notify Field Maintenance. Failure to comply may result in damage to equipment.**	
	•		•		e. After wiping the transmission dipstick (1) clean, check the fluid level. If the fluid on the dipstick is within the COLD RUN band, the level is satisfactory. If the fluid level is not within this band, add fluid as necessary to bring the level within the COLD RUN band. Refer to Lubrication Instruction (WP 0068).	Transmission fluid level is too high or too low. Any Class III leak.
	•		•		f. Install transmission dipstick (1).	
		•			g. Perform HOT CHECK at the first opportunity after normal operating temperature (160° to 250°F [71° to 121°C]) is reached.