

**ARMY TM 9-2320-365-10
AIR FORCE T.O. 36A12-1B-1095-1**

**OPERATOR'S INSTRUCTIONS
MANUAL
M1078 SERIES, 2-1/2 TON, 4x4,
LIGHT MEDIUM TACTICAL
VEHICLES (LMTV)**

MODEL	NSN	EIC
TRK, CAR., LMTV, M1078		
W/WN	2320-01-360-1898	BHH
W/O WN	2320-01-354-3385	BHD
TRK, VAN., LMTV, M1079		
W/WN	2320-01-360-1891	BHG
W/O WN	2320-01-354-3384	BHE
TRK, CHAS, LMTV, M1080	2320-01-353-9098	BHC
TRK, CAR., LMTV, AIR DROP M1081		
W/WN	2320-01-360-1899	BHJ
W/O WN	2320-01-355-3064	BHF

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**HEADQUARTERS, DEPARTMENTS OF THE
ARMY AND THE AIR FORCE**

17 JUNE 1998

WARNING SUMMARY

WARNING

CARBON MONOXIDE (EXHAUST GAS) CAN KILL YOU.

Carbon monoxide is a colorless, odorless, **DEADLY POISONOUS** gas and when breathed deprives body of oxygen and causes **SUFFOCATION**. Breathing air with carbon monoxide produces symptoms of headache, dizziness, loss of muscular control, a sleepy feeling, and coma. Permanent **BRAIN DAMAGE** or **DEATH** can result from severe exposure.

The following precautions **MUST** be followed to ensure personnel are safe whenever any type of personnel heater or engine is operated for any purpose. Failure to comply may result in serious injury or death to personnel.

DO NOT operate heater or engine in an enclosed area without adequate ventilation.

DO NOT drive any vehicle with inspection plates, cover plates, or engine compartment covers removed unless necessary for maintenance purposes.

NEVER sleep in a vehicle when heater is operating or the engine is idling.

BE ALERT at all times during vehicle operation for exhaust odors and exposure symptoms. If either is present, **IMMEDIATELY VENTILATE** personnel compartments. Treatment of affected personnel shall be: exposure to fresh air; keep warm; **DO NOT PERMIT PHYSICAL EXERCISE**. If necessary, give cardiopulmonary resuscitation, as described in FM 21-11, and get immediate medical attention. Failure to comply may result in serious injury or death to personnel.

THE BEST DEFENSE AGAINST CARBON MONOXIDE POISONING IS GOOD VENTILATION.

WARNING

CARBON MONOXIDE (EXHAUST GAS) CAN KILL YOU.

DO NOT operate engine in an enclosed area without adequate ventilation. **NEVER** sleep in a vehicle when heater is operating or the engine is idling. Failure to comply may result in serious injury or death to personnel. ■

WARNING SUMMARY (CONT)

WARNING

Nuclear, Biological, or Chemical (NBC) contaminated air filters must be handled and disposed of only by authorized and trained personnel. The unit commander or senior officer in charge of maintenance personnel must ensure that prescribed protective clothing (FM 3-4) is used, and prescribed safety measures and decontamination procedures (FM 3-5 and TB 700-4) are followed. The unit standard operating procedures are responsible for final disposal of contaminated air filters. Failure to comply may result in serious injury or death to personnel.

WARNING

Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. Keep away from open fire and use in well-ventilated area. If adhesive, solvent, or sealing compound gets on skin or clothing, wash immediately with soap and water. Failure to comply may result in serious injury to personnel.

WARNING

When required to remain inside the vehicle during extreme heat, occupants should follow the water intake, work/rest cycle, and other heat stress preventive medicine measures contained in FM 21-10 Field Hygiene and Sanitation, and FM 21-11 First Aid for Soldiers. Failure to comply may result in serious injury or death to personnel.

WARNING

Do not touch extremely cold metal (below -26°F, -32°C). Bare skin may freeze to cold metal. Failure to comply may result in injury to personnel.

WARNING

Pressure in coolant reservoir must be released before removing cap. Failure to comply may result in injury to personnel.

WARNING

Never raise cab while occupied or when parked uphill on a steep grade. Failure to comply may result in serious injury or death to personnel.

b Change 1

WARNING

Cab hydraulic latch must be locked before driving vehicle. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Do not pull seat belt more than 1 in. (2.54 cm) away from shoulder. Seat belt will not be effective if accident occurs. Failure to comply may result in serious injury or death to personnel.

WARNING

Vehicle must be secure. Chock tires when stopped on incline. Vehicle may roll downhill. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Ensure vehicle is parked on level ground before changing flat tire. Vehicle may roll. Failure to comply may result in serious injury or death to personnel.

WARNING

Both suspension compression plates must be installed on axle studs. Failure to comply may result in serious injury or death to personnel.

WARNING

Engine compartment and accessories may be extremely hot when engine is running or has been running recently. Use caution around engine when cab is raised. Failure to comply may result in injury to personnel.

WARNING SUMMARY (CONT)

WARNING

Engine compartment contains a partially exposed fan blade. Extreme care should be taken when working in engine compartment. Failure to comply may result in injury to personnel.

WARNING

Cargo cover weighs approximately 60 lbs (27 kgs). An assistant is required to lift cargo cover. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Ensure engine oil is cool before performing any maintenance. Failure to comply may result in serious injury or death to personnel.

WARNING

Ensure both doors are securely closed before cab is raised/lowered. Do not allow personnel near cab when cab is being raised/lowered. Cab doors could open. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Ensure safety strap is fastened across back and front of vehicle before transporting troops. Failure to comply may result in serious injury or death to personnel.

WARNING

Data and instruction plates given below must be followed at all times to safely operate vehicle. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Extreme care should be taken when removing coolant fill cap if temperature gage reads above 180°F (80°C). Contact with steam or hot coolant under pressure may result. Failure to comply may result in injury to personnel.

WARNING

Tire weighs approximately 350 lbs (159 kgs). If treads of tire catch on tool box during lowering, raise tire and pull tire away from tool box and continue lowering. Use extreme care when lowering or handling tire. Failure to comply may result in injury to personnel.

WARNING

Tire weighs approximately 350 lbs (159 kgs). Use extreme care when handling tire. Failure to comply may result in injury to personnel.

WARNING

Place hydraulic jack on flat surface. Do not allow personnel under vehicle when jacking. Failure to comply may result in serious injury or death to personnel.

WARNING

Handle tire with care. Tire may have exposed broken metal cords or sharp debris in it. Failure to comply may result in injury to personnel.

WARNING

Use caution when inflating tire. Overinflation may cause tire to blow apart. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Wheels must be chocked and service brakes applied before parking brake is released. Vehicle may roll if wheels are not chocked. Failure to comply may result in serious injury or death to personnel.

WARNING

All cleaning procedures must be accomplished in well-ventilated areas. Failure to comply may result in injury to personnel or damage to equipment.

WARNING SUMMARY (CONT)

WARNING

Protective gloves, clothing, and/or respiratory equipment must be worn whenever caustic, toxic, or flammable cleaning solutions are used. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

A fire extinguisher must be available and ready during all cleaning operations involving solvents. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Manifold operator must stand near hydraulic manifold and observe spare tire. Guide person must stand to the right front of vehicle, well clear of spare tire. Failure to comply may result in serious injury or death to personnel.

WARNING

- Cab roof weighs approximately 130 lbs (59 kgs). Use care when handling cab roof. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Vehicle must not be operated until rear panel and side panels are raised and properly secured. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Manifold operator must stand near hydraulic manifold and observe spare tire while it is being lowered from cargo bed. Spare tire will gain momentum as it is being lowered. Failure to comply may result in serious injury or death to personnel.

WARNING

Ensure tires have correct tire pressure for terrain conditions and driving speed (refer to Table 3-3). Failure to comply may result in serious injury or death to personnel.

WARNING

Dry Cleaning Solvent (P-D-680) is TOXIC and flammable. Wear protective goggles and gloves; use only in well-ventilated area; avoid contact with skin, eyes, and clothes, and do not breath vapors. Keep away from heat or flame. Never smoke when using Dry Cleaning Solvent; the flashpoint for Type I Dry Cleaning Solvent is 100 °F (38 °C) and for Type II is 138 °F (50 °C). Failure to comply may result in serious injury or death to personnel.

WARNING

If personnel become dizzy while using cleaning Dry Cleaning Solvent, immediately get fresh air and medical help. If Dry Cleaning Solvent contacts skin or clothes, flush with cold water. If Dry Cleaning Solvent contacts eyes, immediately flush eyes with water and get medical attention. Failure to comply may result in serious injury to personnel.

WARNING

Hydraulic fluid (MIL-H-5606A) is TOXIC. Wear protective goggles and gloves; use only in well ventilated area; avoid contact with skin, eyes, and clothes. Skin and clothing that come in contact with hydraulic fluid should be washed immediately. Saturated clothing should be removed immediately. Failure to comply may result in injury to personnel.

WARNING

Lead-acid battery gases can explode. Do not smoke, have open flames, or make sparks around a battery, especially if caps are off. Battery may give off gas which can explode. Failure to comply may result in serious injury or death to personnel.

WARNING

Do not back up vehicle without an assistant. Operator has limited vision while backing vehicle. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Remove rings, bracelets, wristwatches, neck chains, and any other jewelry before working around the vehicle. Jewelry may catch on equipment or may short across an electrical circuit or battery terminal. Failure to comply may result in serious injury or death to personnel.

WARNING SUMMARY (CONT)

WARNING

■ Do not smoke, have open flame, or make sparks near batteries when starting vehicle. Batteries can explode. Failure to comply may result in serious injury or death to personnel.

WARNING

Ensure master power switch on both vehicles are turned to off before connecting NATO power cable. Vehicles must not touch each other. Failure to comply may result in serious injury or death to personnel.

WARNING

Engine dipstick is located close to starter solenoid connectors which contain 24 vdc and high amperage. Use caution removing/installing engine dipstick to prevent shorting across starter solenoids when checking engine oil level. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Diesel fuel is flammable. Do not fill fuel tank with engine running, while smoking, or when near an open flame. Never overfill the tank or spill fuel. If fuel is spilled, clean it up immediately. Failure to comply may result in serious injury or death to personnel.

WARNING

Do not perform fuel/water separator checks, inspections, or draining while smoking, or when near fire or sparks. Fuel could ignite. Failure to comply may result in serious injury or death to personnel.



WARNING

Diesel fuel or gasoline must never be used for cleaning. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Applying brakes on slick surfaces may cause vehicle to skid. Apply brake pedal very lightly. Failure to comply may result in serious injury or death to personnel.

WARNING

Operating in water or mud causes brake linings to get wet and can impair vehicle braking. Dry brakes by driving vehicle about 500 ft (153 m) while applying service brakes often. If adequate braking is not restored by drying brakes, notify Unit Maintenance. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Rear axle service brakes will not operate if REAR BRAKE AIR pressure gage reads below 65 psi. Rear axle braking will be provided by rear spring brakes for a limited time. Allow greater stopping distance. Discontinue vehicle operation as soon as possible. Failure to comply may result in serious injury or death to personnel.

WARNING

Front axle service brakes will not operate if FRONT BRAKE AIR pressure gage reads below 65 psi (448 kPa). Allow greater stopping distance. Discontinue vehicle operation as soon as possible. Failure to comply may result in serious injury or death to personnel.

WARNING SUMMARY (CONT)

WARNING

Notify Unit Maintenance that lugnuts need to be tightened to 415-475 lb-ft (563-644 N·m) as soon as possible. Tire may come loose if lugnuts are not tightened to proper torque. Failure to comply may result in serious injury or death to personnel.

WARNING

Do not exceed maximum vehicle speed and grade limitations during normal operations. Do not exceed maximum approach or departure angles or ford water greater than maximum depth. Failure to comply may result in serious injury or death to personnel.

WARNING

Bridges along your route may be marked with a class number. The bridge class number shows the safe capacity of the bridge. If the bridge class number on your vehicle is equal to or less than the bridge class number, the bridge will hold your vehicle. If the bridge class number on your vehicle is greater than the bridge class number; **DO NOT CROSS BRIDGE**. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Do not use **HAND THROTTLE** lever while driving vehicle. The **HAND THROTTLE** lever is not to be used as a cruise control. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Vehicle speed should be reduced to 5-10 mph (8-16 km/h) during blackout conditions. Failure to comply may result in serious injury or death to personnel.

WARNING

Do not press brake pedal hard three or four times in a row. Air supply will be used up and service brakes will not work until air pressure builds up again. Do not operate vehicle until **FRONT** and **REAR BRAKE AIR** pressure reaches at least 100 psi (690 kPa).
■ Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Transmission incorporates a hold feature to prohibit upshifting above selected gear during normal driving. However, during downhill operation, transmission may upshift above selected gear. On downgrades, vehicle speed may need to be restricted by using service brakes. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Avoid driving diagonally across a hill. Vehicle could roll over. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Do not straddle or drive on sides of sand mounds. Loose sand will not support vehicle on steep slopes. Avoid driving diagonally across a hill. Vehicle may roll over. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Do not leave vehicle at any time without first returning **HAND THROTTLE** lever to full down position and placing transmission to **Neutral**. Failure to comply may result in serious injury or death to personnel.

WARNING

Brake pedal must be held down and personnel kept clear of vehicle path while **WTEC II Transmission ECU Pushbutton Shift Selector (TEPSS)** or **WTEC III Transmission Pushbutton Shift Selector (TPSS)** is in **DRIVE**. Transmission will sometimes shift into third gear when in cold operation. Transmission will shift into second when engine reaches operating temperature (165° F (74°C) on **WATER TEMP** gage) causing the vehicle to lurch or move forward. The vehicle cannot move if **SYSTEM PARK** is engaged and the brake pedal is held down. Failure to comply may result in serious injury or death to personnel.

WARNING

Engine must be shut down prior to exhaust restrictor removal. Failure to comply may result in serious injury or death to personnel.

WARNING SUMMARY (CONT)

WARNING

Do not handle exhaust restrictor or tailpipe with bare hands. Failure to comply may result in injury to personnel.

WARNING

Towing vehicle and disabled vehicle must have parking brakes applied before connecting/disconnecting towbar. Failure to comply may cause vehicles to roll into each other and may result in serious injury or death to personnel or damage to equipment.

WARNING

- Towbar weighs approximately 150 lbs (68 kgs) and requires two or more personnel to carry. Failure to comply may result in injury to personnel.

WARNING

Do not place hands near pintle hook when connecting/disconnecting towbar with pintle hook. Failure to comply may result in injury to personnel.

WARNING

Personnel must not occupy towed vehicle during towing operation. vehicle may become disconnected while being towed. Failure to comply may result in serious injury or death to personnel.

WARNING

Ground guide is required to guide vehicle backing up. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Wear heavy leather-palmed work gloves when handling cable. Cables can become frayed or contain broken wires. Never let moving cable slide through hands, even when wearing gloves. Failure to comply may result in serious injury or death to personnel.

WARNING

There must always be at least five wraps of cable on 11K Self-Recovery Winch (SRW). If load is applied with less than five wraps of cable on 11K SRW, cable may come loose on drum and result in serious injury or death to personnel.

WARNING

Keep all personnel clear of area when tension is on cable. Failure to comply may result in serious injury or death to personnel.

WARNING

Ensure line pull does not exceed capacity of 11K Self-Recovery Winch (SRW). Failure to comply may result in serious injury or death to personnel.

WARNING

Use care when removing debris from engine fan. Engine components will be hot. Failure to comply may result in injury to personnel.

WARNING

Ground rod must be driven into ground 18-24 in. (46-61 cm) and ground cable connected to the chassis before power can be taken from outside source or equipment operated inside van. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING SUMMARY (CONT)

WARNING

- Cargo bed is approximately 5 ft (1.5 m) above ground level. Use care during any Light Material Handling Crane (LMHC) operation. Failure to comply may result in serious injury or death to personnel.

WARNING

Ensure that wheels are chocked prior to setting up Light Material Handling Crane (LMHC). Failure to comply may result in injury to personnel.

WARNING

Power cable must be connected to Light Material Handling Crane (LMHC) before being connected to circuit breaker box. Failure to comply may result in serious injury or death to personnel.

WARNING

Ensure that engine is shut down before connecting power cable at vehicle NATO connector. Failure to comply may result in serious injury or death to personnel.

WARNING

Determine required Light Material Handling Crane (LMHC) settings prior to raising boom. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Ensure there are at least two wraps of cable on hoist drum at all times. Cable could come off hoist drum while load is being lifted. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

- Ensure that engine is shut down before disconnecting circuit breaker box NATO connector at vehicle NATO connector. Failure to comply may result in serious injury or death to personnel.

WARNING

Ensure that ground cable terminal makes good metal-to-metal contact with bare metal on van body. If required, scrape contact area clean of dirt, paint, or rust. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Use caution when entering or leaving van. Failure to comply may result in serious injury or death to personnel.

WARNING

Power source must be turned off before disconnecting power cable. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Ensure that engine is not running before disconnecting circuit breaker box NATO connector from vehicle NATO connector. Failure to comply may result in injury to personnel.

WARNING

Light Material Handling Crane (LMHC) boom and winch weighs approximately 110 lbs (50 kgs). The aid of an assistant is required to remove LMHC boom and winch. Failure to comply may result in injury to personnel.

WARNING

Light Material Handling Crane (LMHC) mast weighs approximately 110 lbs (50 kgs). Use the aid of an assistant to remove mast from cargo bed pocket. Failure to comply may result in injury to personnel.

WARNING

Light Material Handling Crane (LMHC) boom and winch weighs approximately 110 lbs (50 kg). The aid of an assistant is required to install boom and winch. Failure to comply may result in injury to personnel.

WARNING SUMMARY (CONT)

WARNING

Ensure that engine is not running before disconnecting circuit breaker box NATO connector from vehicle NATO connector. Failure to comply may result in injury to personnel.

WARNING

- Heavy objects/loads, such as tool boxes and heavy parts, must always be carried on the floor with the weight distributed as equally as possible between left and right sides of M1079 van. Failure to comply decreases the stability of the M1079 van and will increase the likelihood of a rollover.
- Heavy cabinets must always be mounted as low as possible with the weight distributed as equally as possible between left and right sides of M1079 van. Remember to consider the weight of the items that will be stored in the cabinets. Failure to comply decreases the stability of the M1079 van and will increase the likelihood of a rollover.
- Always keep in mind, when placing items inside the M1079 van, that heavier items must always be positioned as low as possible and the weight distributed as equally as possible between left and right sides of M1079 van. Failure to comply decreases the stability of the M1079 van and will increase the likelihood of a rollover.

WARNING

When operating vehicle in snowy or icy conditions, apply the brake pedal momentarily, every few miles. This will ensure that brake linings do not become encrusted with snow or ice. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Do not change tire pressure with tire chains installed. Changing tire pressure with tire chains installed could result in chain slippage. Failure to comply may result in serious injury to personnel or damage to equipment.

WARNING

DO NOT flat tow a fully loaded MTV and trailer combination. The MTV wrecker towbar can be damaged if weight capacity is exceeded. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

When towing a vehicle with nonfunctional brakes, use extreme caution and reduce/adjust speed accordingly. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Vehicle Operator and all crew members must wear properly fitted and approved hearing protection devices when operating the M1079 Van at speeds of 50 MPH (80 km/h) and above. Failure to comply may result in injury to personnel.

WARNING

All personnel working within 12 ft (3.5 m) of an operating M1079 Van must wear properly fitted and approved hearing protection devices. Failure to comply may result in injury to personnel.

WARNING

Personnel firing the M240/M2HB machine gun or Mark 19 grenade launcher from an FMTV vehicle during training exercises must be wearing properly fitted and approved hearing protection devices. Failure to comply may result in injury to personnel.

WARNING

All personnel within 180 ft (55 m) of weapons being fired from an FMTV vehicle during training exercises must be wearing properly fitted and approved hearing protection devices. Failure to comply may result in injury to personnel.

WARNING

When mission requires the vehicle Operator and crew to remain in a stationary FMTV vehicle with the engine running in outside temperatures above 90°F (32°C), vehicle Operator and crew must observe proper safety precautions to prevent heat stress injury. Refer to FM 21-10 Field Hygiene and Sanitation, and FM 21-11 First Aid for Soldiers for proper precautions and preventive measures. Failure to comply may result in injury to personnel.

WARNING SUMMARY (CONT)

WARNING

When mission requires the vehicle Operator and crew to operate the FMTV vehicle in outside temperatures above 90°F (32°C) with the windows closed, vehicle Operator and crew must observe proper safety precautions to prevent heat stress injury. Refer to FM 21-10 Field Hygiene and Sanitation, and FM 21-11 First Aid for Soldiers for proper precautions and preventive measures. Failure to comply may result in injury to personnel.

LIST OF EFFECTIVE PAGES

Insert latest changed pages. Destroy superseded pages.

NOTE: New or changed material is indicated by a vertical bar in the outer margin of the page.

Dates of issue for original and changed pages are:

Original..... 0 17 June 1998
 Change..... 1 31 May 2001

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Blank	0	2-22	1	2-105	1
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k	0	2-25	1	2-107 thru 2-109	1
l thru n	1	2-26 Blank	1	2-110 thru 2-112	0
o	0	2-27 thru 2-34	0	2-113	1
p	1	2-35 and 2-36	1	2-114 thru 2-120	0
q and r Added	1	2-37 and 2-38	0	2-121 and 2-122	1
A and B Added	1	2-39 and 2-40	1	2-123 thru 2-129	0
i	1	2-40.1 Added	1	2-130	1
ii and iii	0	2-40.2 Blank Added	1	2-131	0
iv	1	2-41 and 2-42	1	2-132	1
v thru vii	0	2-42.1 Added	1	2-132.1 Added	1
viii Blank	0	2-42.2 Blank Added	1	2-132.2 Blank Added	1
1-1	1	2-43 thru 2-50	1	2-133 and 2-134	1
1-2 thru 1-9	0	2-51 thru 2-54	0	2-135	0
1-10 and 1-11	1	2-55 thru 2-57	1	2-136 thru 2-140	1
1-12 thru 1-14	0	2-58	0	2-141 and 2-142	0
1-15 and 1-16	1	2-59 and 2-60	1	2-143 thru 2-145	1
1-17 thru 1-20	0	2-60.1 Added	1	2-146	0
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1-40	1	2-66 and 2-67	0	2-162 thru 2-164	1
1-41 thru 1-47	0	2-68 thru 2-71	1	2-165	0
1-48	1	2-72	0	2-166 and 2-167	1
1-49 and 1-50	0	2-73 and 2-74	1	2-168 and 2-169	0
2-1	0	2-74.1 Added	1	2-170	1
2-2 thru 2-4	1	2-74.2 Blank Added	1	2-171 and 2-172	0
2-5	0	2-75 thru 2-79	0	2-173	1
2-6	1	2-80	1	2-174 and 2-175	0
2-7	0	2-81 thru 2-83	0	2-176	1
2-8 and 2-9	1	2-84 thru 2-87	1	2-177 and 2-178	0
2-10	0	2-88	0	2-179	1
2-11	1	2-89 thru 2-92	1	2-180 thru 2-191	0
2-12	0	2-93 and 2-94	0	2-192 and 2-193	1
2-13	1	2-95	1	2-194 thru 2-198	0
2-14 thru 2-19	0	2-96 and 2-97	0	2-199	1
2-20	1	2-98 and 2-99	1		

* Zero in this column indicates an original page.

Change 1 A

LIST OF EFFECTIVE PAGES			Insert latest changed pages. Destroy superseded pages.		
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2-200 thru 2-207	0	2-405	1	B-1 and B-2	0
2-208	1	2-406	0	B-3 thru B-12	1
2-209 and 2-210	0	2-407	1	B-13 and B-14 Deleted	1
2-211 thru 2-213	1	2-408	0	C-1 thru C-3	1
2-214	0	2-409 and 2-410	1	C-4 Blank	0
2-214.1 thru 2-214.3		2-410.1 Added	1	D-1	0
Added	1	2-410.2 Blank Added	1	D-2 thru D-4	1
2-214.4 Blank Added	1	2-411 and 2-412	0	E-1 thru E-4	0
2-215 thru 2-234	1	2-413 thru 2-415	1	E-5 and E-6	1
2-234.1 thru 2-234.19		2-416 Blank	0	E-7	0
Added	1	3-1 thru 3-70	1	E-8 Blank	0
2-234.20 Blank Added	1	3-70.1 thru 3-70.12		F-1	0
2-235	1	Added	1	F-2 thru F-4	1
2-236 thru 2-279	0	3-71	1	F-5	0
2-280 thru 2-282	1	3-72 and 3-73	0	F-6	1
2-283 thru 2-286	0	3-74 thru 3-76	1	F-7	0
2-286.1 Added	1	3-77 thru 3-79	0	F-8	1
2-286.2 Blank Added	1	3-80 thru 3-84	1	F-8.1 Added	1
2-287 thru 2-291	0	3-85	0	F-8.2 Blank Added	1
2-292	1	3-86	1	F-9	1
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2-295	1	3-92	1	F-11	1
2-296 thru 2-306	0	3-93 thru 3-101	0	F-12 Blank	0
2-307 thru 2-310	1	3-102	1	INDEX-1 thru INDEX-29	1
2-310.1 Added	1	3-103	0	INDEX-30 Blank	1
2-310.2 Blank Added	1	3-104 and 3-105	1		
2-311 thru 2-317	0	3-106	0		
2-318	1	3-107 thru 3-110	1		
2-318.1 Added	1	3-110.1 thru 3-110.6			
2-318.2 Blank Added	1	Added	1		
2-319 and 2-320	1	3-111	1		
2-320.1 Added	1	3-112 and 3-113	0		
2-320.2 Blank Added	1	3-114	1		
2-321	0	3-114.1 Added	1		
2-322	1	3-114.2 Blank Added	1		
2-323 thru 2-328 Deleted	1	3-115 thru 3-126	1		
2-329	1	3-126.1 and 3-126.2			
2-330 thru 2-346	0	Added	1		
2-347	1	3-127 thru 3-130	1		
2-348 Blank	1	3-130.1 and 3-130.2			
2-349 thru 2-354 Deleted	1	Added	1		
2-355	0	3-131 thru 3-138	1		
2-356 thru 2-360	1	3-138.1 thru 3-138.3			
2-361 and 2-362	0	Added	1		
2-362.1 thru 2-362.9		3-138.4 Blank Added	1		
Added	1	3-139 thru 3-146	1		
2-362.10 Blank Added	1	3-147 thru 3-156	0		
2-363	1	3-157 thru 3-159 Added	1		
2-364 thru 2-375	0	3-160 Blank Added	1		
2-376 thru 2-379	1	A-1 and A-2	0		
2-380 Blank	1	A-3	1		
2-381 thru 2-404 Deleted	1	A-4	0		

* Zero in this column indicates an original page.

B Change 1

**CHANGE
NO. 1**

**HEADQUARTERS
DEPARTMENTS OF THE ARMY
AND THE AIR FORCE**

Washington, D.C., 31 May 2001

**OPERATOR'S INSTRUCTIONS MANUAL
M1078 SERIES, 2-1/2-TON, 4x4,
LIGHT MEDIUM TACTICAL VEHICLE (LMTV)**

TM 9-2320-365-10, 17 June 1998, is changed as follows:

1. Remove old pages and insert new pages as indicated below.
2. New or changed material is indicated by a vertical bar in the outer margin of the page.
3. Added or revised illustrations are indicated by a vertical bar adjacent to the illustration.

Remove Pages	Insert Pages	Remove Pages	Insert Pages
a thru p	a thru p	2-133 thru 2-140	2-133 thru 2-140
none	q and r	2-143 thru 2-148	2-143 thru 2-148
none	A and B	2-153 and 2-154	2-153 and 2-154
i thru iv	i thru iv	2-157 thru 2-170	2-157 thru 2-170
1-1 and 1-2	1-1 and 1-2	2-173 thru 2-176	2-173 thru 2-176
1-9 thru 1-12	1-9 thru 1-12	2-179 and 2-180	2-179 and 2-180
1-15 and 1-16	1-15 and 1-16	2-191 thru 2-194	2-191 thru 2-194
1-21 thru 1-40	1-21 thru 1-40	2-199 and 2-200	2-199 and 2-200
1-47 and 1-48	1-47 and 1-48	2-207 and 2-208	2-207 and 2-208
2-1 thru 2-14	2-1 thru 2-14	2-211 thru 2-214	2-211 thru 2-214
2-19 thru 2-22	2-19 thru 2-22	none	2-214.1 thru 2-214.3/ (2-214.4 Blank)
2-25 and 2-26	2-25/(2-26 Blank)	2-215 thru 2-234	2-215 thru 2-234
2-35 and 2-36	2-35 and 2-36	none	2-234.1 thru 2-234.19/ (2-234.20 Blank)
2-39 and 2-40	2-39 and 2-40	2-235 and 2-236	2-235 and 2-236
none	2-40.1/(2-40.2 Blank)	2-279 thru 2-282	2-279 thru 2-282
2-41 and 2-42	2-41 and 2-42	none	2-286.1/(2-286.2 Blank)
none	2-42.1/(2-42.2 Blank)	2-291 and 2-292	2-291 and 2-292
2-43 thru 2-50	2-43 thru 2-50	2-295 and 2-296	2-295 and 2-296
2-55 thru 2-60	2-55 thru 2-60	2-307 thru 2-310	2-307 thru 2-310
none	2-60.1/(2-60.2 Blank)	none	2-310.1/(2-310.2 Blank)
2-61 thru 2-74	2-61 thru 2-74	2-317 and 2-318	2-317 and 2-318
none	2-74.1/(2-74.2 Blank)	none	2-318.1/(2-318.2 Blank)
2-79 and 2-80	2-79 and 2-80	2-319 and 2-320	2-319 and 2-320
2-83 thru 2-92	2-83 thru 2-92	none	2-320.1/(2-320.2 Blank)
2-95 thru 2-100	2-95 thru 2-100	2-321 and 2-322	2-321 and 2-322
2-105 thru 2-110	2-105 thru 2-110	2-323 thru 2-328	none
2-113 and 2-114	2-113 and 2-114	2-329 and 2-330	2-329 and 2-330
2-121 and 2-122	2-121 and 2-122	2-347 and 2-348	2-347/(2-348 Blank)
2-129 thru 2-132	2-129 thru 2-132		
none	2-132.1/(2-132.2 Blank)		

Place this change sheet in the front of the publication for reference purposes.


Remove Pages	Insert Pages	Remove Pages	Insert Pages
2-349 thru 2-354	none	DA Form 2028-2	none
2-355 thru 2-360	2-355 thru 2-360	DA Form 2028-2	none
none	2-362.1 thru 2-362.9/ (2-362.10 Blank)	Metric Conversion Chart	Metric Conversion Chart
2-363 and 2-364	2-363 and 2-364		
2-375 thru 2-380	2-375 thru 2-379/ (2-380 Blank)		
2-381 thru 2-404	none		
2-405 thru 2-410	2-405 thru 2-410		
none	2-410.1/(2-410.2 Blank)		
2-413 thru 2-415/ (2-416 Blank)	2-413 thru 2-415/ (2-416 Blank)		
3-1 thru 3-70	3-1 thru 3-70		
none	3-70.1 thru 3-70.12		
3-71 thru 3-76	3-71 thru 3-76		
3-79 thru 3-86	3-79 thru 3-86		
3-91 and 3-92	3-91 and 3-92		
3-101 thru 3-110	3-101 thru 3-110		
none	3-110.1 thru 3-110.6		
3-111 thru 3-114	3-111 thru 3-114		
none	3-114.1/(3-114.2 Blank)		
3-115 thru 3-126	3-115 thru 3-126		
none	3-126.1 and 3-126.2		
3-127 thru 3-130	3-127 thru 3-130		
none	3-130.1 and 3-130.2		
3-131 thru 3-138	3-131 thru 3-138		
none	3-138.1 thru 3-138.3/ (3-138.4 Blank)		
3-139 thru 3-146	3-139 thru 3-146		
none	3-157 thru 3-159/ (3-160 Blank)		
A-3 and A-4	A-3 and A-4		
B-3 thru B-12	B-3 thru B-12		
B-13/(B-14 Blank)	none		
C-1 thru C-3/ (C-4 Blank)	C-1 thru C-3/ (C-4 Blank)		
D-1 thru D-4	D-1 thru D-4		
E-5 thru E-7/ (E-8 Blank)	E-5 thru E-7/ (E-8 Blank)		
F-1 thru F-8	F-1 thru F-8		
None	F-8.1/(F-8.2 Blank)		
F-9 thru F-11/ (F-12 Blank)	F-9 thru F-11/ (F-12 Blank)		
INDEX-1 thru INDEX-30	INDEX-1 thru INDEX-29/ (INDEX-30 Blank)		
DA Form 2028-2 Sample	none		
DA Form 2028-2	none		

Place this change sheet in the front of the publication for reference purposes.

By Order of the Secretary of the Army:

ERIC K. SHINSEKI
General, United States Army
Chief of Staff

Official:


JOEL B. HUDSON

Administrative Assistant to the
Secretary of the Army
0034205

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NO. 9-2320-365-10

HEADQUARTERS
DEPARTMENTS OF THE ARMY
AND THE AIR FORCE

TECHNICAL ORDER
NO. 36A12-1B-1095-1

Washington, D.C., 17 June 1998

**Operator's Instructions Manual
M1078 SERIES, 2-1/2 TON, 4x4
LIGHT MEDIUM TACTICAL VEHICLES (LMTV)**

MODEL	NSN	EIC
TRK, CAR., LMTV, M1078		
W/WN	2320-01-360-1898	BHH
W/O WN	2320-01-354-3385	BHD
TRK, VAN., LMTV, M1079		
W/WN	2320-01-360-1891	BHG
W/O WN	2320-01-354-3384	BHE
TRK, CHAS, LMTV, M1080	2320-01-353-9098	BHC
TRK, CAR., LMTV, AIR DROP, M1081		
W/WN	2320-01-360-1899	BHJ
W/O WN	2320-01-355-3064	BHF

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this publication. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Submit your DA Form 2028 (Recommended Changes to Equipment Technical Publications), through the Internet, on the Army Electronic Product Support (AEPS) website. The Internet address is <http://aeeps.ria.army.mil>. If you need a password, scroll down and click on "ACCESS REQUEST FORM". The DA Form 2028 is located in the ONLINE FORMS PROCESSING section of the AEPS. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, fax or Email your letter or DA Form 2028 direct to: AMSTA-LC-CI/TECH PUBS, TACOM-RI, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. The email address is TACOM-TECH-PUBS@ria.army.mil. The fax number is DSN 793-0726 or Commercial (309) 782-0726.

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HOW TO USE THIS MANUAL

OVERVIEW

This Technical Manual (TM) is provided to help you operate and maintain the Light Medium Tactical Vehicles (LMTV). It is divided into the following major sections in order of appearance:

- **FRONT COVER INDEX.** The front cover index contains a list of the most important topics contained in the manual. It features a black box at the right edge of the cover which corresponds with a black box on the page containing the topic. The topics listed on the front cover are highlighted in the table of contents with a box.
- **WARNING SUMMARY.** Provides a summary of the warnings that appear throughout the manual. Read all WARNINGS and CAUTIONS before performing any operation, troubleshooting or maintenance procedures.
- **TABLE OF CONTENTS.** Lists the Chapters, Sections, Appendixes, and alphabetical Index with Page Number in order of appearance.
- **CHAPTER 1, INTRODUCTION.** Describes the LMTV and provides equipment data.
- **CHAPTER 2, OPERATING INSTRUCTIONS.** Describes operator's controls and indicators, preventive maintenance, and operating instructions.
- **CHAPTER 3, MAINTENANCE INSTRUCTIONS.** Provides instructions for Troubleshooting and operator maintenance.
- **APPENDIX A, REFERENCES.** Lists publications used with the LMTV and reference publications which contain information regarding the equipment.
- **APPENDIX B, COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LISTS.** Lists and illustrates COEI and BII items issued with the LMTV.
- **APPENDIX C, ADDITIONAL AUTHORIZATION LIST (AAL).** Lists additional items you are authorized for support of the LMTV.
- **APPENDIX D, EXPENDABLE AND DURABLE ITEMS LIST.** Lists expendable and durable Items used in the performance of maintenance procedures.