

**TECHNICAL MANUAL
MAINTENANCE INSTRUCTIONS
UNIT MAINTENANCE
M1078 SERIES, 2 1/2-TON, 4 X 4,
LIGHT MEDIUM TACTICAL VEHICLES (LMTV)
VOLUME NO. 2 OF 5**

MODEL	NSN	EIC	
TRK, CAR., LMTV, M1078 W/WN W/O WN	2320-01-360-1898 2320-01-354-3385	BHH BHD	HOW TO USE THIS MANUAL PAGE iv
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HEADQUARTERS, DEPARTMENTS OF THE ARMY AND THE AIR FORCE

JUNE1998

WARNING SUMMARY**WARNING****EXHAUST GASES CAN KILL**

1. **DO NOT** operate your vehicle engine in an enclosed area.
2. **DO NOT** idle vehicle engine with cab windows closed.
3. **DO NOT** drive vehicle with inspection plates or covers removed.
4. **BE ALERT** at all times for exhaust odors.
5. **BE ALERT** for exhaust poisoning symptoms, they are:
 - Headache
 - Dizziness
 - Sleepiness
 - Loss of Muscular Control
6. **IF YOU SEE** another person with exhaust poisoning symptoms:
 - Remove person from area.
 - Expose to open air.
 - Keep person warm.
 - Do not permit person to move.
 - Administer cardiopulmonary resuscitation, if necessary.*

* For cardiopulmonary resuscitation, refer to FM 21-11.

WARNING

Remove rings, bracelets, watches, necklaces, and any other jewelry before working around vehicle. Jewelry can catch on equipment and cause injury or short across electrical circuit and cause severe burns or electrical shock. Batteries can explode from a spark. Battery acid is harmful to skin and eyes. Always wear eye protection and rubber gloves when working with batteries.

WARNING

Battery acid (electrolyte) is extremely harmful. Always wear safety goggles and rubber gloves, and do not smoke when performing maintenance on batteries. Injury will result if acid contacts skin or eyes. Wear rubber apron to prevent clothing being damaged.

WARNING SUMMARY (CONT)

WARNING

Adhesives, solvents, and sealing compounds can burn easily, can give off harmful vapors, and are harmful to skin and clothing. To avoid injury or death, keep away from open fire and use in a 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 injury 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 breathe vapors. Keep away from heat or flame. Never smoke when using solvent; the flashpoint for Type I Dry Cleaning Solvent is 100 degrees F (38 degrees C) and for Type II is 130 degrees F (50 degrees C). Failure to comply may result in serious injury or death to personnel.
- If personnel become dizzy while using 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 immediate medical attention. Failure to comply may result in injury to personnel.

WARNING

Diesel fuel is flammable. If fuel is spilled, clean it up immediately. Failure to comply may result in serious injury or death to personnel.

WARNING

After Nuclear, Biological, or Chemical (NBC) exposure of vehicle, all air filters shall be handled with extreme caution. Unprotected personnel may experience serious injury or death if residual toxic agents or radioactive material are present. If vehicle is exposed to chemical or biological agents, servicing personnel shall wear protective mask, hood, protective overgarments, and chemical protective gloves and boots in accordance with FM-3-4. All contaminated air filters shall be placed in double-lined plastic bags and moved swiftly to a segregation area away from the worksite. The same procedure applies for radioactive dust contamination. The Company NBC team should measure radiation prior to filter removal to determine extent of safety procedures required per the NBC Annex to the unit Standard Operating Procedures (SOP). The segregation area in which the contaminated air filters are temporarily stored shall be marked with appropriate NBC placards. Final disposal of contaminated air filters shall be in accordance with local SOP. Decontamination operation shall be in accordance with FM-3-5 and local SOP. Failure to comply may result in serious injury or death to personnel.

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

Adhesive sealant MIL-S-46163 can damage your eyes. Wear safety goggles/glasses when using; avoid contact with eyes. If sealant contacts eyes, flush eyes with water and get immediate medical attention. Failure to comply may result in injury to personnel.

WARNING

Use care when removing/installing springs. Springs are under tension and can act as projectiles when being removed. Failure to comply can cause injury to personnel.

WARNING

Retaining rings are under tension and can act as projectiles when released causing severe eye injury. Use care when removing retaining rings. Failure to comply may result in injury to personnel.

WARNING

Ensure exhaust system is cool before performing maintenance. Failure to comply may result in injury to personnel.

WARNING

Wear appropriate eye protection when working under vehicle due to the possibility of falling debris. Failure to comply may result in injury to personnel.

WARNING

Do not operate LMTV vehicle with muffler removed. Toxic exhaust fumes may enter cab, resulting in serious injury or death to personnel.

WARNING

Do not work on fuel system when engine is hot; fuel can be ignited by a hot engine.

WARNING SUMMARY (CONT)

WARNING

Post signs that read "NO SMOKING WITHIN 50 FEET" when working with open fuel, fuel lines or fuel tanks. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Exhaust pipe, transmission oil lines, and transmission scavenge pump hose may be hot to the touch. Extreme care should be taken when checking exhaust pipe, transmission oil lines, and transmission scavenge pump hose for leaks. Failure to comply may result in injury to personnel.

WARNING

Compressed air used for cleaning purposes will not exceed 30 psi (207 Kpa). Use only with effective chip guarding and personal protective equipment (goggles/shield, gloves, etc). Failure to comply may result in injury to personnel.

WARNING

Wheel drum weighs approximately 90 lb (41 Kg). Use the aid of an assistant to help remove wheel drum. Failure to comply may result in injury to personnel.

WARNING

Wheel drum weighs approximately 90 lb (41 kg). Use the aid of an assistant to help install wheel drum. Failure to comply may result in injury to personnel.

WARNING

Brake shoes may be covered with dust. Breathing this dust may be harmful to your health. Do not use compressed air to clean brake shoes. Wear a filter mask approved for use against brake dust. Failure to comply may result in injury to personnel.

WARNING

Cage spring brake before air chamber is removed or severe injury to personnel will occur.

WARNING

Ensure air chamber is caged prior to installation. Failure to comply may result in injury to personnel.

WARNING

Ensure that tire is totally deflated before removing self-locking nuts. Failure to comply may result in serious injury or death to personnel.

WARNING

Spring brakes must be caged before attempting replacement of a rear axle wheel stud. Failure to comply may result in severe injury to personnel.

WARNING

Wear protective goggles to protect against possible injury from release of high pressure air. Failure to comply may result in injury to personnel.

WARNING

Prolonged contact with lubricating oil (MIL-L-2104) may cause a skin rash. Skin and clothing that come in contact with lubricating oil should be thoroughly washed immediately. Saturated clothing should be removed immediately. Areas in which lubricating oil is used should be well ventilated to keep fumes to a minimum. Failure to comply may result in injury to personnel.

WARNING

Hydraulic fluid (MIL-H-5606) 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 oil should be washed immediately. Saturated clothing should be removed immediately. Failure to comply may result in injury to personnel.

WARNING

Wire rope can become frayed or contain broken wires. Wear heavy leather-palmed gloves when handling wire rope. Frayed or broken wires can injure hands. Failure to comply may result in injury to personnel.

WARNING

Never let moving wire rope slide through hands, even when wearing gloves. A broken wire could cut through gloves and cut hands.

WARNING SUMMARY (CONT)

WARNING

Wear appropriate eye protection when removing rivets. Failure to comply may result in injury to personnel.

WARNING

Wear appropriate eye protection when drilling holes. Failure to comply may result in injury to personnel.

WARNING

Wear leather gloves at all times when handling winch cable. Do not allow cable to slide through hands even with gloves on. Broken wires may cause injury to personnel.

WARNING

Use extreme caution when working around moving cable. Failure to do so may result in serious injury to personnel.

WARNING

Caution must be exercised while cab is raised. Ensure that locking mechanism is functioning properly before proceeding. Failure to comply may result in death or serious injury to personnel and damage to equipment.

WARNING

Diesel fuel is flammable. Arctic heater components and fuel lines may contain small amounts of fuel. If fuel is spilled, clean up immediately. Failure to comply may result in serious injury or death to personnel.

WARNING

Coolant may be very hot and under pressure from engine operation. Ensure engine is cool before performing maintenance. Failure to comply may result in injury to personnel.

WARNING

Do not remove oil filter while engine is hot. Failure to comply may result in injury to personnel.

WARNING

Sling spreader weighs approximately 200 lbs (91 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Remove all loose equipment from van body. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Van body weighs approximately 3,360 lbs (1525 kgs) empty. Attach a suitable lifting device prior to removal. Failure to comply may result in serious injury or death to personnel.

WARNING

Guide ropes must be attached at opposite corners of van body to aid in controlling van body during removal. Failure to comply may result in serious injury or death to personnel.

WARNING

Center of gravity will change depending on equipment installed in van body. Attach and adjust lifting device so that van body lifts level. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

Pod frame weighs approximately 80 lbs (36 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Do not install pod frame on van body for 72 hours after installing blind rivet nuts and spacers. Failure to comply may result in injury to personnel and/or damage to equipment.

WARNING

Goggles and gloves must be worn when working with glass. Failure to comply may result in injury to personnel.

WARNING SUMMARY (CONT)

WARNING

RH door assembly weighs approximately 85 lbs (39 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

LH door assembly weighs approximately 85 lbs (39 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Wear appropriate eye protection when handling fluorescent lamps. 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

Diesel fuel is flammable. Arctic heater components and fuel hoses may contain small amounts of fuel. If fuel is spilled, clean it up immediately. Failure to comply may result in serious injury or death to personnel.

WARNING

Extreme care must be taken when lowering gravel deflector. Coolant hoses could be pulled loose. Failure to comply could result in serious eye injury.

WARNING

- Do not open coolant fill cap if temperature reads above 110°F (43°C). Steam or hot coolant is under pressure. Failure to comply may result in injury to personnel.
- Pressure in reservoir tank must be released before removing cap. Failure to comply may result in injury to personnel.

WARNING

Heater weighs approximately 120 lbs (54 kgs). Use the aid of an assistant when lifting. Failure to comply may result in injury to personnel.

WARNING

200 amp alternator weighs approximately 70 lbs (32 kgs). The aid of an assistant is required to install 200 amp alternator. Failure to comply may result in injury to personnel.

WARNING

Light Material Handling Crane (LMHC) mast weighs approximately 110 lbs (50 kgs). Attach a suitable lifting device prior to installation. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Light Material Handling Crane (LMHC) boom assembly weighs approximately 150 lbs (68 kgs). Use an assistant when removing LMHC boom assembly. Failure to comply may result in injury to personnel.

WARNING SUMMARY (CONT)

WARNING

Light Material Handling Crane (LMHC) boom weighs approximately 60 lbs (27 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel or damage to equipment.

WARNING

Light Material Handling Crane (LMHC) weighs approximately 250 lbs (114 kgs). Attach a suitable lifting device prior to removal. Failure to comply may result in injury to personnel.

WARNING

Use care when removing/installing springs. Springs are under tension and can act as projectiles when released. Failure to comply may result in injury to personnel.

WARNING

Air conditioner weighs approximately 300 lbs (136 kg). Attach a suitable lifting device prior to installation. Failure to comply may result in injury to personnel.

WARNING

Ensure cargo bed is free of equipment and debris, and is not warped or damaged in any way. Failure to comply may result in serious injury or death to personnel or damage to equipment.

WARNING

S-280 shelter weighs approximately 1500 lbs (680 kgs) empty. Attach a suitable lifting device prior to installation. Failure to comply may result in serious injury or death to personnel or damage to equipment.

CHANGE
NO. 1

HEADQUARTERS
DEPARTMENTS OF THE ARMY
AND THE AIR FORCE

Washington, D.C., 1 July 2003

TECHNICAL MANUAL
MAINTENANCE INSTRUCTIONS
UNIT MAINTENANCE
M1078 SERIES, 2 1/2-TON, 4x4,
LIGHT MEDIUM TACTICAL VEHICLE
(LMTV)

VOLUME NO. 2 OF 5

TM 9-2320-365-20-2, 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 out 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
i and j	i and j	2-1699 and 2-1700	2-1699 and 2-1700
none	A and C/(D Blank)	2-1711/(2-1712 Blank)	2-1711 and 2-1712
i thru iv	i thru iv	none	2-1712.1/(2-1712.2 Blank)
none	v and vi	2-1713 thru 2-1730	2-1713 thru 2-1730
none	2-1086.1/(2-1086.2 Blank)	2-1737 thru 2-1742	2-1737 thru 2-1742
2-1087 and 2-1088	2-1087 and 2-1088	none	2-1742.1 thru 2-1742.30
2-1103 thru 2-1108	2-1103 thru 2-1108	2-1743 thru 2-1748	2-1743 thru 2-1748
2-1175 thru 2-1222	2-1175 thru 2-1222	2-1753 and 2-1754	2-1753 and 2-1754
2-1229 thru 2-1244	2-1229 thru 2-1244	2-1761 and 2-1762	2-1761 and 2-1762
2-1359 and 2-1360	2-1359 and 2-1360	2-1767 thru 2-1770	2-1767 thru 2-1770
2-1363 thru 2-1462	2-1363 thru 2-1462	2-1821 thru 2-1830	2-1821 thru 2-1830
none	2-1462.1 and 2-1462.2	2-1831 and 2-1832	2-1831/(2-1832 Blank)
2-1463 thru 2-1482	2-1463 thru 2-1482	2-1833 thru 2-1852	none
none	2-1482.1 thru 2-1482.42	2-1853 and 2-1854	(2-1853 Blank)/2-1854
2-1483 thru 2-1486	2-1483 thru 2-1486	2-1855 and 2-1856	2-1855 and 2-1856
none	2-1486.1 thru 2-1486.4	2-1861 thru 2-1868	2-1861 thru 2-1868
2-1487 thru 2-1568	2-1487 thru 2-1568	2-1869 and 2-1870	2-1869/(2-1870 Blank)
none	2-1568.1 and 2-1568.2	2-1871 and 2-1872	(2-1871 Blank)/2-1872
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none	2-1596.1 thru 2-1596.29/ (2-1596.30 Blank)	2-1895 thru	2-1895 thru
2-1597 thru 2-1601/ (2-1602 Blank)	2-1597 thru 2-1601/ (2-1602 Blank)	2-1901/(2-1902 Blank)	2-1901/(2-1902 Blank)
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		none	2-1974.1 thru 2-1974.22
		2-1975/(2-1976 Blank)	2-1975/(2-1976 Blank)
		2-1977 and 2-1978	2-1977/(2-1978 Blank)

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

Remove Pages

Insert Pages

Remove Pages

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2-1979 thru 2-2076		none
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none	2-2116.11 and 2-2116.12	
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H-1 thru H-8	H-1 thru H-8	
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none	K-1 thru K-4	
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FO-1 PF-1/(FP-2 Blank) thru FP-19/(FP-20 Blank)	FO-1 FP-1/(FP-2 Blank) thru FP-19/(FP-20 Blank)	
FO-1 FP-23/(FP-24 Blank)	FO-1 FP-23/(FP-24 Blank)	
FO-1 FP-27/(FP-28 Blank) thru FP-61/(FP-62 Blank)	FO-1 FP-27/(FP-28 Blank) thru FP-61/(FP-62 Blank)	
FO-1 FP-65/(FP-66 Blank) and FP-67/(FP-68 Blank)	FO-1 FP-65/(FP-66 Blank) and FP-67/(FP-68 Blank)	
DA FORM 2028-2 Sample	DA FORM 2028-2 Sample	
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Metric Conversion Chart	Metric Conversion Chart	
Cover	Cover	

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

By Order of the Secretary of the Army:

Official:



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*Administrative Assistant to the
Secretary of the Army*

0110103

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*General, United States Army
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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..... 1 July 2003

THE TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 1376, CONSISTING OF THE FOLLOWING:

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a thru h.....	0	Added.....	1	2-1853 Blank.....	1
i.....	1	2-1596.30 Blank Added.....	1	2-1854 and 2-1855.....	1
j.....	0	2-1597 thru 2-1601.....	1	2-1856 thru 2-1861.....	0
A thru C Added.....	1	2-1602 Blank.....	0	2-1862 thru 2-1869.....	1
D Blank Added.....	1	2-1603.....	1	2-1870 Blank.....	1
i.....	1	2-1604 thru 2-1605.....	0	2-1871 Blank.....	1
ii.....	0	2-1606 Blank.....	0	2-1872 and 2-1873.....	1
iii and iv.....	1	2-1607.....	1	2-1874 thru 2-1893.....	0
v and vi Added.....	1	2-1608 thru 2-1643.....	0	2-1894 Blank.....	0
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2-1087.....	1	2-1667 and 2-1668 Deleted.....	1	2-1903.....	1
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* Zero in this column indicates an original page.

LIST OF EFFECTIVE PAGES

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2-2116.1 Added.....	1	H-5	1	FO-1 FP-38 Blank	0
2-2116.2 Blank Added.....	1	H-6 and H-7.....	0	FO-1 FP-39.....	1
2-2116.3 thru 2-2116.9 Added.....	1	H-8	1	FO-1 FP-40 Blank	0
2-2116.10 Blank Added	1	H-9 thru H-17.....	0	FO-1 FP-41	1
2-2116.11 and 2-2116.12 Added.....	1	H-18 and H-19.....	1	FO-1 FP-42 Blank	0
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2-2118.1 Added.....	1	H-21	1	FO-1 FP-44 Blank	0
2-2118.2 Blank Added	1	H-22 Blank.....	0	FO-1 FP-45.....	1
2-2118.3 thru 2-2118.7 Added.....	1	J-1	0	FO-1 FP-46 Blank	0
2-2118.8 Blank Added	1	J-2 Blank	0	FO-1 FP-47	1
2-2118.9 and 2-2118.10 Added.....	1	K-1 thru K-4 Added.....	1	FO-1 FP-48 Blank	0
2-2119.....	1	INDEX-1 thru INDEX-12.....	1	FO-1 FP-49.....	1
2-2120 Blank	0	Glossary-1 and Glossary-2.....	0	FO-1 FP-50 Blank	0
2-2121.....	1	FO-1 FP-1	1	FO-1 FP-51	1
2-2122 thru 2-2125.....	0	FO-1 FP-2 Blank.....	0	FO-1 FP-52 Blank	0
2-2126 Blank	0	FO-1 FP-3	1	FO-1 FP-53.....	1
2-2127 thru 2-2132.....	0	FO-1 FP-4 Blank.....	0	FO-1 FP-54 Blank	0
2-2132.1 Added.....	1	FO-1 FP-5	1	FO-1 FP-55.....	1
2-2132.2 Blank Added	1	FO-1 FP-6 Blank.....	0	FO-1 FP-56 Blank	0
2-2133.....	1	FO-1 FP-7	1	FO-1 FP-57.....	1
2-2134 thru 2-2136.....	0	FO-1 FP-8 Blank.....	0	FO-1 FP-58 Blank	0
3-1.....	1	FO-1 FP-9	1	FO-1 FP-59.....	1
3-2 thru 3-14.....	0	FO-1 FP-10 Blank.....	0	FO-1 FP-60 Blank	0
3-15 thru 3-17.....	1	FO-1 FP-11	1	FO-1 FP-61.....	1
3-18 thru 3-21.....	0	FO-1 FP-12 Blank.....	0	FO-1 FP-62 Blank	0
3-22 Blank	0	FO-1 FP-13	1	FO-1 FP-63.....	0
A-1	0	FO-1 FP-14 Blank.....	0	FO-1 FP-64 Blank	0
A-2 and A-3.....	1	FO-1 FP-15	1	FO-1 FP-65.....	1
A-4	0	FO-1 FP-16 Blank.....	0	FO-1 FP-66 Blank	0
B-1 thru B-13.....	0	FO-1 FP-17	1	FO-1 FP-67.....	1
B-14 thru B-19.....	1	FO-1 FP-18 Blank.....	0	FO-1 FP-68 Blank	0
B-20 Blank	1	FO-1 FP-19	1	FO-2 FP-1.....	0
C-1 and C-2.....	0	FO-1 FP-20 Blank.....	0	FO-2 FP-2 Blank	0
C-3 and C-4.....	1	FO-1 FP-21	0	FO-2 FP-3.....	0
D-1 thru D-6	1	FO-1 FP-22 Blank.....	0	FO-2 FP-4 Blank	0
E-1 and E-2.....	0	FO-1 FP-23	1	FO-2 FP-5.....	0
E-3 and E-4.....	1	FO-1 FP-24 Blank.....	0	FO-2 FP-6 Blank	0
E-5 thru E-20.....	0	FO-1 FP-25	0	FO-2 FP-7.....	0
E-21 and E-22 Added	1	FO-1 FP-26 Blank.....	0	FO-2 FP-8 Blank	0
F-1 thru F-8.....	0	FO-1 FP-27	1	FO-3 FP-1.....	0
G-1 thru G-10.....	1	FO-1 FP-28 Blank.....	0	FO-3 FP-2 Blank	0
G-11 Added.....	1	FO-1 FP-29	1	FO-3 FP-3.....	0
		FO-1 FP-30 Blank.....	0	FO-3 FP-4 Blank	0
		FO-1 FP-31	1	FO-3 FP-5.....	0
		FO-1 FP-32 Blank.....	0	FO-3 FP-6 Blank	0
		FO-1 FP-33	1	FO-4 FP-1.....	0

* Zero in this column indicates an original page.

LIST OF EFFECTIVE PAGES

Insert latest changed pages. Destroy superseded pages.

Page No.	*Change No.	Page No.	*Change No.	Page No.	*Change No.
FO-4 FP-2 Blank	0				
FO-4 FP-3	0				
FO-4 FP-4 Blank	0				
FO-5 FP-1	0				
FO-5 FP-2 Blank	0				
FO-5 FP-3	0				
FO-5 FP-4 Blank	0				
FO-5 FP-5	0				
FO-5 FP-6 Blank	0				

* Zero in this column indicates an original page.

TECHNICAL MANUAL
 NO. 9-2320-365-20-2

HEADQUARTERS
 DEPARTMENTS OF THE ARMY
 AND THE AIR FORCE

TECHNICAL ORDER
 NO. 36A12-1B-1095-2-2

Washington, D.C., 17 June 1998

Unit Maintenance Manual
**M1078 SERIES, 2 1/2-TON, 4 x 4,
 LIGHT MEDIUM TACTICAL VEHICLES (LMTV)
 VOLUME NO. 2 OF 5**

MODEL	NSN	EIC
TRK, CAR., LMTV, M1078 W/WN W/O WN	2320-01-360-1898 2320-01-354-3385	BHH BHD
TRK, VAN, LMTV, M1079 W/WN W/O WN	2320-01-360-1891 2320-01-354-3384	BHG BHE
TRK, CHAS, LMTV, M1080	2320-01-353-9098	BHC
TRK, CAR., LMTV, AIR DROP, M1081 W/WN W/O WN	2320-01-360-1899 2320-01-355-3064	BHJ 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://aeps.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 maintain the LMTV at the Unit Maintenance level. Because of its size, it is divided into five volumes. Volume 2 contains the following major sections in order of appearance:

- **WARNING SUMMARY.** Provides a summary of the most important warnings that apply throughout the manual.
- **CHAPTER 2, VEHICLE MAINTENANCE.** This chapter contains the continuation of the troubleshooting tables.
- **CHAPTER 3, ENGINE MAINTENANCE.**

- **APPENDIX A, REFERENCES.** Lists publications used with the LMTV.
- **APPENDIX B, MAINTENANCE ALLOCATION CHART.** The maintenance allocation chart denotes the level of maintenance which performs specific maintenance tasks and the time required. It also lists tools and special tools required for each task.
- **APPENDIX C, TOOLS IDENTIFICATION LIST.** Lists equipment used in the performance of maintenance and references publications which contain information regarding the equipment.
- **APPENDIX D, EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST.** Lists expendable and durable items used in the performance of maintenance.
- **APPENDIX E, ILLUSTRATED LIST OF MANUFACTURED ITEMS.** Illustrates and describes items that must be fabricated from bulk materials for repair of the LMTV.
- **APPENDIX F, TORQUE LIMITS.** Lists the standard torque values for specific attaching hardware.
- **APPENDIX G, MANDATORY REPLACEMENT PARTS.**
- **APPENDIX H, LUBRICATION ORDER.**
- **APPENDIX J, ADDITIONAL AUTHORIZATION LIST (AAL).**
- **APPENDIX K, TRANSMISSION/TRANSMISSION CONTROLS ADAPTABILITY CHART.**
- **SUBJECT INDEX.** Lists important subjects contained in volume 2 in alphabetical order and gives the associated paragraph number.

FINDING INFORMATION

There are several ways to find the information you need in this manual. They are as follows:

- **FRONT COVER INDEX.** The front cover index contains a list of the most important topics contained in each volume. 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.
- **TABLE OF CONTENTS.** Lists chapters, sections, appendixes, and indexes with page numbers in order of appearance.
- **CHAPTER INDEXES.** List paragraphs contained in the individual chapters with paragraph and page numbers in order of appearance.
- **SYMPTOM INDEX.** Lists malfunctions contained in the troubleshooting table with page numbers in order of appearance.

TROUBLESHOOTING

Troubleshooting is contained in chapter 2. When a malfunction occurs, look at the symptom index for the vehicle troubleshooting table in chapter 2. Find the malfunction in the index. Turn to the page number listed for the malfunction in the troubleshooting table. Perform the steps required to correct the malfunction. If you can't find the malfunction, or the malfunction is not corrected, notify your supervisor.

MAINTENANCE

- **SCHEDULED MAINTENANCE.** Your scheduled maintenance is located in table 2-1, PMCS. These checks and services are mandatory at the intervals listed. Always follow the **WARNINGS** and **CAUTIONS**.
- **UNSCHEDULED MAINTENANCE.** Unscheduled maintenance is located in chapters 3 through 22. The PMCS and troubleshooting tables often reference you to these procedures. When you perform maintenance, look over the entire procedure before starting. Make sure you have the necessary tools and materials at hand. Always follow the **WARNINGS** and **CAUTIONS**.

FOLLOW THESE GUIDELINES WHEN USING THIS MANUAL:

- Become familiar with the entire maintenance procedure before beginning a maintenance task.
- Read all **WARNINGS** and **CAUTIONS** before performing any procedures.

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e99. M1079 FAN DOES NOT OPERATE	
INITIAL SETUP	
Equipment Condition Engine shut down (TM 9-2320-365-10). AC power disconnected (TM 9-2320-365-10).	Tools and Special Tools Tool Kit, Genl Mech (Item 44, Appendix C) STE/ICE-R (Item 39, Appendix C) Multimeter, Digital (Item 22, Appendix C)
Personnel Required (2)	
References TM 9-4910-571-12&P	

