

**TECHNICAL MANUAL
MAINTENANCE INSTRUCTIONS
UNIT MAINTENANCE
M1078 SERIES, 2 1/2-TON, 4 X 4,
LIGHT MEDIUM TACTICAL VEHICLES (LMTV)
VOLUME NO. 1 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 vii
TRK, VAN, LMTV, M1079 W/WN W/O WN	2320-01-360-1891 2320-01-354-3384	BHG BHE	GENERAL INFORMATION PAGE 1-1
TRK, CHAS, LMTV, M1080	2320-01-353-9098	BHC	EQUIPMENT DESCRIPTION AND DATA PAGE 1-6
TRK, CAR., LMTV, AIR DROP, M1081 W/WN W/O WN	2320-01-360-1899 2320-01-355-3064	BHJ BHF	SERVICE UPON RECEIPT PAGE 2-3
			PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) INTRODUCTION PAGE 2-6.1
			INTRODUCTION TO LOGIC TREE TROUBLESHOOTING PAGE 2-53
			ENGINE SYSTEM TROUBLESHOOTING PAGE 2-63
			FUEL SYSTEM TROUBLESHOOTING PAGE 2-101
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DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENTS OF THE ARMY AND THE AIR FORCE

JUNE 1998

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. 1 OF 5

TM 9-2320-365-20-1, 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	2-317 thru 2-320	2-317 thru 2-320
none	A thru J	none	2-320.1 thru 2-320.8
i thru xi/(xii Blank)	i thru xii	2-321 thru 2-324	2-321 thru 2-324
2-1 thru 2-6	2-1 thru 2-6	none	2-324.1 thru 2-324.8
none	2-6.1/(2-6.2 blank)	2-325 and 2-326	2-325 and 2-326
2-7 and 2-8	2-7 and 2-8	2-331 thru 2-344	2-331 thru 2-344
2-15 thru 2-22	2-15 thru 2-22	none	2-344.1 thru 2-344.6
2-53 thru 2-70	2-53 thru 2-69/(2-70 Blank)	2-345 and 2-346	2-345 and 2-346
2-71 thru 2-74	(2-71 Blank)/2-72 thru 2-74	none	2-346.1 thru 2-346.6
2-99/(2-100 Blank)	2-99 and 2-100	2-347 thru 2-356	2-347 thru 2-356
none	2-100.1 thru 2-100.7/(2-100.8 Blank)	none	2-356.1 thru 2-356.8
2-101 thru 2-106	2-101 thru 2-106	2-357 thru 2-370	2-357 thru 2-370
none	2-106.1 thru 2-106.8	none	2-370.1 thru 2-370.12
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none	2-144.1 thru 2-144.4	none	2-380.1 thru 2-380.26
2-145/(2-146 Blank)	2-145/(2-146 Blank)	2-381 thru 2-384	2-381 thru 2-384
2-147 thru 2-152	2-147 thru 2-152	none	2-384.1 thru 2-384.6
none	2-152.1 thru 2-152.6	2-385 and 2-386	2-385 and 2-386
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none	2-274.1 thru 2-274.24	2-443 thru 2-460	2-443 thru 2-460
2-275 and 2-276	2-275/(2-276 Blank)	2-491 thru 2-496	2-491 thru 2-496
2-277 thru 2-298	none	none	2-496.1 and 2-496.2
2-299 and 2-300	(2-299 Blank)/2-300	2-497 thru 2-502	2-497 thru 2-502
2-301 thru 2-306	2-301 thru 2-306	none	2-502.1 and 2-502.2
none	2-306.1 thru 2-306.4	2-503 and 2-504	2-503 and 2-504
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none	2-312.1 and 2-312.2	none	2-518.1 and 2-518.2
2-313 thru 2-316	2-313 thru 2-316	2-519 and 2-520	2-519 and 2-520
none	2-316.1 thru 2-316.4	2-541 and 2-542	2-541 and 2-542

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

Remove Pages

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2-542.1 and 2-542.2
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 2-685/(2-686 Blank)
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 FO-1 FP-65/(FP-66 Blank)
 and FP-67/(FP-68 Blank)
 DA FORM 2028-2 Sample
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 DA FPRM 2028-2
 DA FORM 2028-2
 Metric Conversion Chart
 Cover

Insert Pages

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 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)
 DA FORM 2028-2 Sample
 DA FORM 2028-2
 DA FORM 2028-2
 DA FORM 2028-2
 Metric Conversion Chart
 Cover

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

By Order of the Secretary of the Army:

JOHN M. KEANE
General, United States Army
Acting Chief of Staff

Official:



JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
0110102

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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..... 1 July 2003

THE TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 5792, CONSISTING OF THE FOLLOWING:

Page No.	*Change No.	Page No.	*Change No.	Page No.	*Change No.
VOLUME 1					
		2-144.1 thru 2-144.4 Added	1	2-390 thru 2-392	1
Cover	1	2-145	1	2-392.1 thru 2-392.4 Added	1
Blank	0	2-146 Blank	0	2-393	1
a thru h	0	2-147 thru 2-152	1	2-394 thru 2-443	0
i	1	2-152.1 thru 2-152.6 Added	1	2-444 thru 2-459	1
j	0	2-153 thru 2-256	1	2-460 thru 2-491	0
A thru J Added	1	2-256.1 thru 2-256.34 Added	1	2-492 thru 2-496	1
i and ii	1	2-257 thru 2-274	1	2-496.1 and 2-496.2 Added	1
iii	0	2-274.1 thru 2-274.24 Added	1	2-497 thru 2-502	1
iv thru xii	1	2-275	1	2-502.1 and 2-502.2 Added	1
1-1 thru 1-27	0	2-276 Blank	1	2-503	1
1-28 Blank	0	2-277 thru 2-298 Deleted	1	2-504 thru 2-511	0
2-1 thru 2-6	1	2-299 Blank	1	2-512 thru 2-518	1
2-6.1 and 2-6.2 Added	1	2-300 thru 2-306	1	2-518.1 and 2-518.2 Added	1
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2-9 thru 2-15	0	2-307 thru 2-312	1	2-520 thru 2-541	0
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2-18	0	2-313 thru 2-316	1	2-542.1 and 2-542.2 Added	1
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2-20 and 2-21	0	2-317 thru 2-320	1	2-546.1 and 2-546.2 Added	1
2-22	1	2-320.1 thru 2-320.8 Added	1	2-547 and 2-548	1
2-23 thru 2-52	0	2-321 thru 2-324	1	2-548.1 thru 2-548.6 Added	1
2-53	1	2-324.1 thru 2-324.8 Added	1	2-549 thru 2-556	1
2-54	0	2-325	1	2-556.1 thru 2-556.4 Added	1
2-55 thru 2-69	1	2-326 thru 2-331	0	2-557 thru 2-560	1
2-70 Blank	1	2-332 thru 2-344	1	2-560.1 thru 2-560.6 Added	1
2-71 Blank	1	2-344.1 thru 2-344.6 Added	1	2-561 thru 2-574	1
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2-107	1	2-376.1 thru 2-376.14 Added	1	2-595	1
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2-118 Blank	0	2-380.1 thru 2-380.26 Added	1	2-616 thru 2-621	1
2-119	1	2-381 thru 2-384	1	2-622 Blank	1
2-120 thru 2-127	0	2-384.1 thru 384.6 Added	1	2-623 Blank	1
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LIST OF EFFECTIVE PAGES

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2-674 Blank	1	H-1.....	0	FO-1 FP-33	1
2-675 Blank	1	H-2 and H3.....	1	FO-1 FP-34 Blank.....	0
2-676 thru 2-685.....	1	H-4.....	0	FO-1 FP-35	1
2-686 Blank	1	H-5.....	1	FO-1 FP-36 Blank.....	0
2-687 Blank	1	H-6 and H-7.....	0	FO-1 FP-37	1
2-688 and 2-689.....	1	H-8.....	1	FO-1 FP-38 Blank.....	0
2-690 thru 2-709.....	0	H-9 thru H-17.....	0	FO-1 FP-39	1
2-710 thru 2-714.....	1	H-18 and H-19.....	1	FO-1 FP-40 Blank.....	0
2-714.1 and 2-714.2 Added.....	1	H-20.....	0	FO-1 FP-41	1
2-715 and 2-716.....	1	H-21.....	1	FO-1 FP-42 Blank.....	0
2-716.1 and 2-716.2 Added.....	1	H-22 Blank	0	FO-1 FP-43	1
2-717 and 2-718.....	1	J-1	0	FO-1 FP-44 Blank.....	0
2-718.1 and 2-718.2 Added.....	1	J-2 Blank	0	FO-1 FP-45	1
2-719 thru 2-722.....	1	K-1 thru K-4 Added	1	FO-1 FP-46 Blank.....	0
2-722.1 and 2-722.2 Added.....	1	INDEX-1 thru INDEX-38	1	FO-1 FP-47	1
2-723 thru 2-726.....	1	INDEX-39 Deleted.....	1	FO-1 FP-48 Blank.....	0
2-726.1 and 2-726.2 Added.....	1	INDEX-40 Blank Deleted.....	1	FO-1 FP-49	1
2-727 thru 2-739.....	1	Glossary-1 and Glossary-2.....	0	FO-1 FP-50 Blank.....	0
2-740 thru 2-749.....	0	FO-1 FP-1	1	FO-1 FP-51	1
2-750 thru 2-799.....	1	FO-1 FP-2 Blank.....	0	FO-1 FP-52 Blank.....	0
2-800 thru 2-803.....	0	FO-1 FP-3.....	1	FO-1 FP-53	1
2-804 thru 2-821.....	1	FO-1 FP-4 Blank.....	0	FO-1 FP-54 Blank.....	0
2-822 thru 2-905.....	0	FO-1 FP-5.....	1	FO-1 FP-55	1
2-906 thru 2-918.....	1	FO-1 FP-6 Blank.....	0	FO-1 FP-56 Blank.....	0
2-918.1 thru 2-918.6 Added.....	1	FO-1 FP-7.....	1	FO-1 FP-57	1
2-919.....	1	FO-1 FP-8 Blank.....	0	FO-1 FP-58 Blank.....	0
2-920 thru 2-1009.....	0	FO-1 FP-9.....	1	FO-1 FP-59	1
2-1010 thru 2-1016.....	1	FO-1 FP-10 Blank.....	0	FO-1 FP-60 Blank.....	0
2-1016.1 thru 2-1016.10 Added.....	1	FO-1 FP-11	1	FO-1 FP-61	1
2-1017.....	1	FO-1 FP-12 Blank.....	0	FO-1 FP-62 Blank.....	0
2-1018 thru 2-1085.....	0	FO-1 FP-13	1	FO-1 FP-63	0
2-1086 Blank.....	0	FO-1 FP-14 Blank.....	0	FO-1 FP-64 Blank.....	0
A-1	0	FO-1 FP-15	1	FO-1 FP-65	1
A-2 and A-3.....	1	FO-1 FP-16 Blank.....	0	FO-1 FP-66 Blank.....	0
A-4	0	FO-1 FP-17	1	FO-1 FP-67	1
B-1 thru B-13.....	0	FO-1 FP-18 Blank.....	0	FO-1 FP-68 Blank.....	0
B-14 thru B-19.....	1	FO-1 FP-19	1	FO-2 FP-1	0
B-20 Blank	1	FO-1 FP-20 Blank.....	0	FO-2 FP-2 Blank.....	0
C-1 and C-2.....	0	FO-1 FP-21	0	FO-2 FP-3.....	0
C-3 and C-4.....	1	FO-1 FP-22 Blank.....	0	FO-2 FP-4 Blank.....	0
D-1 thru D-6.....	1	FO-1 FP-23	1	FO-2 FP-5.....	0
E-1 and E-2.....	0	FO-1 FP-24 Blank.....	0	FO-2 FP-6 Blank.....	0
E-3 and E-4.....	1	FO-1 FP-25	0	FO-2 FP-7	0
E-5 thru E-20.....	0	FO-1 FP-26 Blank.....	0	FO-2 FP-8 Blank.....	0
E-21 and E-22 Added	1	FO-1 FP-27	1	FO-3 FP-1	0
F-1 thru F-8.....	0	FO-1 FP-28 Blank.....	0	FO-3 FP-2 Blank.....	0
G-1 thru G-10.....	1	FO-1 FP-29	1	FO-3 FP-3.....	0
G-11 Added	1	FO-1 FP-30 Blank.....	0	FO-3 FP-4 Blank.....	0
		FO-1 FP-31	1	FO-3 FP-5.....	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-3 FP-6 Blank	0	2-1595 and 2-1596	1	2-1902 Blank	0
FO-4 FP-1	0	2-1596.1 thru 2-1596.29 Added	1	2-1903	1
FO-4 FP-2 Blank	0	2-1596.30 Blank Added	1	2-1904 thru 2-1923	0
FO-4 FP-3	0	2-1597 thru 2-1601	1	2-1924 Blank	0
FO-4 FP-4 Blank	0	2-1602 Blank	0	2-1925	1
FO-5 FP-1	0	2-1603	1	2-1926 thru 2-1943	0
FO-5 FP-2 Blank	0	2-1604 thru 2-1605	0	2-1944 Blank	0
FO-5 FP-3	0	2-1606 Blank	0	2-1945	1
FO-5 FP-4 Blank	0	2-1607	1	2-1946 thru 2-1951	0
FO-5 FP-5	0	2-1608 thru 2-1643	0	2-1952 Blank	0
FO-5 FP-6 Blank	0	2-1644 thru 2-1665	1	2-1953	1
VOLUME 2		2-1666 Blank	1	2-1954 thru 2-1957	0
Cover	1	2-1667 and 2-1668 Deleted	1	2-1958 Blank	0
Blank	0	2-1669 Blank	1	2-1959 thru 2-1968	1
a thru h	0	2-1670 thru 2-1695	1	2-1968.1 thru 2-1968.18	
i	1	2-1696 Blank	1	Added	1
j	0	2-1697 Blank	1	2-1969 and 2-1970	1
A thru C Added	1	2-1698 and 2-1699	1	2-1970.1 thru 2-1970.14	1
D Blank Added	1	2-1700 thru 2-1711	0	2-1971 thru 2-1974	1
i	1	2-1712	1	2-1974.1 thru 2-1974.22	
li	0	2-1712.1 Added	1	Added	1
iii and iv	1	2-1712.2 Blank Added	1	2-1975	1
v and vi Added	1	2-1713 thru 2-1729	1	2-1976 Blank	0
2-1086.1 Added	1	2-1730 thru 2-1737	0	2-1977	1
2-1086.2 Blank Added	1	2-1738 thru 2-1742	1	2-1978 Blank	1
2-1087	1	2-1742.1 thru 2-1742.30 Added	1	2-1979 thru 2-2076 Deleted	1
2-1088 thru 2-1103	0	2-1743 thru 2-1747	1	2-2077 Blank	1
2-1104 thru 2-1107	1	2-1748 thru 2-1751	0	2-2078	1
2-1108 and 2-1175	0	2-1752 Blank	0	2-2079 thru 2-2113	0
2-1176 thru 2-1221	1	2-1753	1	2-2114 Blank	0
2-1222 thru 2-1229	0	2-1754 thru 2-1759	0	2-2115 and 2-2116	1
2-1230 thru 2-1243	1	2-1760 Blank	0	2-2116.1 Added	1
2-1244 thru 2-1357	0	2-1761	1	2-2116.2 Blank Added	1
2-1358 Blank	0	2-1762 thru 2-1765	0	2-2116.3 thru 2-2116.9 Added	1
2-1359 and 2-1360	1	2-1766 Blank	0	2-2116.10 Blank Added	1
2-1361 Blank	0	2-1767 thru 2-1769	1	2-2116.11 and 2-2116.12 Added	1
2-1362 and 2-1363	0	2-1770 thru 2-1821	0	2-2117 and 2-2118	1
2-1364 thru 2-1462	1	2-1822 thru 2-1831	1	2-2118.1 Added	1
2-1462.1 and 2-1462.2 Added	1	2-1832 Blank	1	2-2118.2 Blank Added	1
2-1463 thru 2-1482	1	2-1833 thru 2-1852 Deleted	1	2-2118.3 thru 2-2118.7 Added	1
2-1482.1 thru 2-1482.42		2-1853 Blank	1	2-2118.8 Blank Added	1
Added	1	2-1854 and 2-1855	1	2-2118.9 and 2-2118.10 Added	1
2-1483	1	2-1856 thru 2-1861	0	2-2119	1
2-1484 and 2-1485	0	2-1862 thru 2-1869	1	2-2120 Blank	0
2-1486	1	2-1870 Blank	1	2-2121	1
2-1486.1 thru 2-1486.4 Added	1	2-1871 Blank	1	2-2122 thru 2-2125	0
2-1487 thru 2-1568	1	2-1872 and 2-1873	1	2-2126 Blank	0
2-1568.1 and 1568.2 Added	1	2-1874 thru 2-1893	0	2-2127 thru 2-2132	0
2-1569 thru 2-1593	1	2-1894 Blank	0	2-2132.1 Added	1
2-1594	0	2-1895 thru 2-1901	1	2-2132.2 Blank Added	1

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LIST OF EFFECTIVE PAGES

Insert latest changed pages. Destroy superseded pages.

Page No.	*Change No.	Page No.	*Change No.	Page No.	*Change No.
2-2133.....	1	FO-1 FP-11	1	FO-1 FP-61	1
2-2134 thru 2-2136	0	FO-1 FP-12 Blank	0	FO-1 FP-62 Blank	0
3-1.....	1	FO-1 FP-13	1	FO-1 FP-63	0
3-2 thru 3-14	0	FO-1 FP-14 Blank	0	FO-1 FP-64 Blank	0
3-15 thru 3-17	1	FO-1 FP-15	1	FO-1 FP-65	1
3-18 thru 3-21	0	FO-1 FP-16 Blank	0	FO-1 FP-66 Blank	0
3-22 Blank	0	FO-1 FP-17	1	FO-1 FP-67	1
A-1	0	FO-1 FP-18 Blank	0	FO-1 FP-68 Blank	0
A-2 and A-3.....	1	FO-1 FP-19	1	FO-2 FP-1	0
A-4.....	0	FO-1 FP-20 Blank	0	FO-2 FP-2 Blank	0
B-1 thru B-13.....	0	FO-1 FP-21	0	FO-2 FP-3	0
B-14 thru B-19.....	1	FO-1 FP-22 Blank	0	FO-2 FP-4 Blank	0
B-20 Blank	1	FO-1 FP-23	1	FO-2 FP-5	0
C-1 and C-2.....	0	FO-1 FP-24 Blank	0	FO-2 FP-6 Blank	0
C-3 and C-4.....	1	FO-1 FP-25	0	FO-2 FP-7	0
D-1 thru D-6.....	1	FO-1 FP-26 Blank	0	FO-2 FP-8 Blank	0
E-1 and E-2.....	0	FO-1 FP-27	1	FO-3 FP-1	0
E-3 and E-4.....	1	FO-1 FP-28 Blank	0	FO-3 FP-2 Blank	0
E-5 thru E-20.....	0	FO-1 FP-29	1	FO-3 FP-3	0
E-21 and E-22 Added	1	FO-1 FP-30 Blank	0	FO-3 FP-4 Blank	0
F-1 thru F-8.....	0	FO-1 FP-31	1	FO-3 FP-5	0
G-1 thru G-10.....	1	FO-1 FP-32 Blank	0	FO-3 FP-6 Blank	0
G-11 Added	1	FO-1 FP-33	1	FO-4 FP-1	0
G-12 Blank Added	1	FO-1 FP-34 Blank	0	FO-4 FP-2 Blank	0
H-1	0	FO-1 FP-35	1	FO-4 FP-3	0
H-2 and H-3.....	1	FO-1 FP-36 Blank	0	FO-4 FP-4 Blank	0
H-4	0	FO-1 FP-37	1	FO-5 FP-1	0
H-5	1	FO-1 FP-38 Blank	0	FO-5 FP-2 Blank	0
H-6 and H-7.....	0	FO-1 FP-39	1	FO-5 FP-3	0
H-8.....	1	FO-1 FP-40 Blank	0	FO-5 FP-4 Blank	0
H-9 thru H-17.....	0	FO-1 FP-41	1	FO-5 FP-5	0
H-18 and H-19.....	1	FO-1 FP-42 Blank	0	FO-5 FP-6 Blank	0
H-20.....	0	FO-1 FP-43	1	VOLUME 3	
H-21.....	1	FO-1 FP-44 Blank	0	Cover.....	1
H-22 Blank	0	FO-1 FP-45	1	Blank	0
J-1.....	0	FO-1 FP-46 Blank	0	a thru h.....	0
J-2 Blank	0	FO-1 FP-47	1	i.....	1
K-1 thru K-4 Added.....	1	FO-1 FP-48 Blank	0	j.....	0
INDEX-1 thru INDEX-12.....	1	FO-1 FP-49	1	A thru D Added	1
Glossary-1 and Glossary-2.....	0	FO-1 FP-50 Blank	0	i.....	1
FO-1 FP-1.....	1	FO-1 FP-51	1	ii.....	0
FO-1 FP-2 Blank	0	FO-1 FP-52 Blank	0	iii thru vi.....	1
FO-1 FP-3.....	1	FO-1 FP-53	1	4-1	1
FO-1 FP-4 Blank	0	FO-1 FP-54 Blank	0	4-2 thru 4-4.....	0
FO-1 FP-5.....	1	FO-1 FP-55	1	4-5.....	1
FO-1 FP-6 Blank	0	FO-1 FP-56 Blank	0	4-6 thru 4-8.....	0
FO-1 FP-7.....	1	FO-1 FP-57	1	4-9.....	1
FO-1 FP-8 Blank	0	FO-1 FP-58 Blank	0	4-10.....	0
FO-1 FP-9.....	1	FO-1 FP-59	1	4-10.1 and 4-10.2 Added.....	1
FO-1 FP-10 Blank	0	FO-1 FP-60 Blank	0	4-11	0

* Zero in this column indicates an original page.

LIST OF EFFECTIVE PAGES (CONT)

Insert latest changed pages. Destroy superseded pages.

Page No.	*Change No.	Page No.	*Change No.	Page No.	*Change No.
4-12 and 4-13.....	1	6-35 thru 6-38.....	0	7-146 and 7-147	1
4-14.....	0	6-39.....	1	7-148	0
4-15.....	1	6-40 thru 6-48.....	0	7-149	1
4-16 and 4-17.....	0	6-49.....	1	7-150	0
4-18.....	1	6-50 thru 6-52.....	0	7-151	1
4-19 thru 4-41	0	6-53.....	1	7-152 thru 7-159.....	0
4-42 and 4-43.....	1	6-54 thru 6-66.....	0	7-160	1
4-44.....	0	6-67.....	1	7-160.1 Added.....	1
4-45.....	1	6-68 and 6-69.....	0	7-160.2 Blank Added.....	1
4-46.....	0	6-70 and 6-71	1	7-161 thru 7-165.....	1
4-47.....	1	6-72.....	0	7-166 thru 7-168.....	0
4-48 thru 4-59	0	6-72.1 Added.....	1	7-169	1
4-60.....	1	6-72.2 Blank Added.....	1	7-170 and 7-171	0
4-61 and 4-62.....	0	6-73 thru 6-78.....	1	7-172	1
4-63.....	1	7-1 thru 7-4.....	1	7-173	0
4-64 thru 4-68	0	7-5 and 7-6.....	0	7-174	1
4-69.....	1	7-7 and 7-9.....	1	7-175 thru 7-188.....	0
4-70 thru 4-81	0	7-10 thru 7-24.....	0	7-189 and 7-190	1
4-82 thru 4-84	1	7-25 thru 7-31.....	1	7-191 and 7-192	0
4-85 thru 4-105.....	0	7-32 thru 7-35.....	0	7-193	1
4-106 Blank	0	7-36.....	1	7-194	0
5-1.....	1	7-36.1 thru 7-36.3 Added.....	1	7-195 thru 7-200.....	1
5-2 thru 5-6	0	7-36.4 Blank Added.....	1	7-200.1 and 7-200.2 Added	1
5-7 and 5-8	1	7-37 thru 7-40.....	0	7-201 thru 7-203.....	1
5-9.....	0	7-41	1	7-204 thru 7-218.....	0
5-10 and 5-11.....	1	7-42 thru 7-44.....	0	7-219 thru 7-223.....	1
5-12 and 5-13.....	0	7-45.....	1	7-224 thru 7-228.....	0
5-14 and 5-15.....	1	7-46 thru 7-51.....	0	7-229 thru 7-231	1
5-16 Blank	0	7-52.....	1	7-232	0
6-1 thru 6-3	1	7-53 thru 7-55.....	0	7-233 thru 7-237	1
6-4.....	0	7-56.....	1	7-238	0
6-4.1 and 6-4.2 Added.....	1	7-57 thru 7-64.....	0	7-239	1
6-5.....	1	7-65.....	1	7-240 thru 7-242.....	0
6-6.....	0	7-66.....	0	7-243 and 7-244	1
6-7.....	1	7-67 and 7-68	1	7-245	0
6-8 and 6-9	0	7-69 thru 7-74.....	0	7-246	1
6-10 thru 6-13	1	7-75.....	1	7-247 thru 7-258.....	0
6-14.....	0	7-76 thru 7-78.....	0	7-259	1
6-15 thru 6-18	1	7-79.....	1	7-260 thru 7-268.....	0
6-19.....	0	7-80 thru 7-86.....	0	7-269	1
6-20 thru 6-22	1	7-87.....	1	7-270 thru 7-274.....	0
6-22.1 Added	1	7-88.....	0	7-275 and 7-276	1
6-22.2 Blank Added.....	1	7-89.....	1	7-277	0
6-23 thru 6-25	1	7-90 thru 7-102.....	0	7-278	1
6-26 and 6-27.....	0	7-103	1	7-279 thru 7-287	0
6-28.....	1	7-104 thru 7-118.....	0	7-288	1
6-29 thru 6-31	0	7-119	1	7-289	0
6-32.....	1	7-120 thru 7-142.....	0	7-290 and 7-291	1
6-33.....	0	7-143 and 7-144	1	7-292 and 7-293	0
6-34.....	1	7-145	0	7-294	1

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7-295 thru 7-297.....	0	8-70 Blank Added	1	11-78 and 11-79	0
7-298.....	1	9-1 and 9-2.....	1	11-80 thru 11-83.....	1
7-299 thru 7-302.....	0	9-2.1 and 9-2.2 Added.....	1	11-84 thru 11-90.....	0
7-303 thru 7-316.....	1	9-3 and 9-4.....	1	11-91	1
7-316.1 thru 7-316.4 Added.....	1	9-5 Added.....	1	11-92	0
7-317 and 7-318.....	1	9-6 Blank Added.....	1	11-93 and 11-94	1
7-319 thru 7-326.....	0	10-1.....	1	11-95 and 11-96	0
7-327 thru 7-329.....	1	10-2.....	0	11-97 thru 11-104	1
7-330 thru 7-342.....	0	10-3 and 10-4	1	11-105.....	0
7-343 thru 7-346.....	1	10-5.....	0	11-106.....	1
7-347 and 7-348.....	0	10-6 and 10-7	1	11-106.1 Added	1
7-349 and 7-350.....	1	10-8.....	0	11-106.2 Blank Added.....	1
7-350.1 and 7-350.2 Added.....	1	10-9.....	1	11-107	1
7-351	1	10-10 and 10-11	0	11-108 thru 11-110.....	0
7-352 and 7-353.....	0	10-12.....	1	11-111 and 11-112.....	1
7-354 thru 7-356.....	1	10-13	0	11-112.1 Added.....	1
7-357.....	0	10-14	1	11-112.2 Blank Added.....	1
7-358 and 7-359.....	1	10-15 and 10-16	0	11-113.....	0
7-360.....	0	10-17 thru 10-19.....	1	11-114 thru 11-116.....	1
7-361.....	1	10-20 Blank	0	11-117	0
7-362.....	0	11-1.....	1	11-118 and 11-119.....	1
7-363.....	1	11-2 thru 11-8.....	0	11-120 thru 11-122.....	0
7-364.....	0	11-9 and 11-10	1	11-123.....	1
7-365 thru 7-368.....	1	11-11.....	0	11-124.....	0
7-369 thru 7-380.....	0	11-12.....	1	11-125 and 11-126.....	1
7-381 thru 7-383 Added.....	1	11-13.....	0	11-127.....	0
7-384 Blank Added	1	11-14.....	1	11-128 and 11-129.....	1
8-1.....	1	11-15	0	11-130.....	0
8-2 thru 8-9.....	0	11-16	1	11-131	1
8-10.....	1	11-17 thru 11-32.....	0	11-132 and 11-133.....	0
8-11.....	0	11-33 thru 11-39.....	1	11-134 and 11-135.....	1
8-12.....	1	11-40 thru 11-42.....	0	11-136 thru 11-138.....	0
8-12.1 Added	1	11-43 thru 11-45.....	1	11-139 thru 11-142.....	1
8-12.2 Blank Added.....	1	11-46.....	0	11-143.....	0
8-13 thru 8-15	0	11-47 thru 11-53.....	1	11-144.....	1
8-16.....	1	11-54	0	11-144.1 thru 11-144.4 Added	1
8-16.1 Added	1	11-55 thru 11-57.....	1	11-145 and 11-146.....	1
8-16.2 Blank Added.....	1	11-58	0	12-1.....	1
8-17 thru 8-31	0	11-58.1 and 11-58.2 Added	1	12-2 thru 12-7.....	0
8-32.....	1	11-59	1	12-8.....	1
8-33.....	0	11-60 Blank	1	12-9 thru 12-15.....	0
8-34 thru 8-40	1	11-61 and 11-62	1	12-16	1
8-40.1 Added	1	11-63 thru 11-65.....	0	12-16.1 Added.....	1
8-40.2 Blank Added	1	11-66 thru 11-68.....	1	12-16.2 Blank Added.....	1
8-41 thru 8-47	1	11-69	0	12-17 thru 12-19.....	1
8-48 and 8-49.....	0	11-70 thru 11-72.....	1	12-20 and 12-21	0
8-50.....	1	11-73	1	12-22	1
8-51 and 8-52.....	0	11-74	1	12-23 and 12-24	0
8-53 and 8-54.....	1	11-75	0	13-1	1
8-55 thru 8-69 Added.....	1	11-76 and 11-77	1	13-2 and 13-3.....	0

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Page No.	*Change No.	Page No.	*Change No.	Page No.	*Change No.
13-4.....	1	H-22 Blank	0	FO-1 FP-45.....	1
13-4.1 Added	1	J-1	0	FO-1 FP-46 Blank	0
13-4.2 Blank Added	1	J-2 Blank	0	FO-1 FP-47.....	1
13-5 thru 13-8	1	K-1 thru K-4 Added	1	FO-1 FP-48 Blank	0
13-8.1 Added	1	Index-1 thru Index-12.....	1	FO-1 FP-49.....	1
13-8.2 Blank Added	1	Glossary-1 and Glossary-2.....	0	FO-1 FP-50 Blank	0
13-9 thru 13-25.....	0	FO-1 FP-1	1	FO-1 FP-51.....	1
13-26 thru 13-32.....	1	FO-1 FP-2 Blank	0	FO-1 FP-52 Blank	0
13-33 thru 13-35 Added.....	1	FO-1 FP-3.....	1	FO-1 FP-53.....	1
13-36 Blank Added	1	FO-1 FP-4 Blank	0	FO-1 FP-54 Blank	0
14-1 thru 14-8	1	FO-1 FP-5.....	1	FO-1 FP-55.....	1
14-9 and 14-10 Deleted	1	FO-1 FP-6 Blank	0	FO-1 FP-56 Blank	0
14-11 Blank	1	FO-1 FP-7	1	FO-1 FP-57.....	1
14-12 thru 14-20.....	1	FO-1 FP-8 Blank	0	FO-1 FP-58 Blank	0
14-20.1 thru 14-20.4 Added.....	1	FO-1 FP-9.....	1	FO-1 FP-59.....	1
14-21.....	1	FO-1 FP-10 Blank	0	FO-1 FP-60 Blank	0
14-22 thru 14-34.....	0	FO-1 FP-11	1	FO-1 FP-61.....	1
14-35 thru 14-38 Added.....	1	FO-1 FP-12 Blank	0	FO-1 FP-62 Blank	0
15-1.....	1	FO-1 FP-13	1	FO-1 FP-63.....	0
15-2 and 15-3.....	0	FO-1 FP-14 Blank	0	FO-1 FP-64 Blank	0
15-4.....	1	FO-1 FP-15	1	FO-1 FP-65.....	1
15-5 thru 15-13.....	0	FO-1 FP-16 Blank	0	FO-1 FP-66 Blank	0
15-14 Blank	0	FO-1 FP-17	1	FO-1 FP-67.....	1
A-1	0	FO-1 FP-18 Blank	0	FO-1 FP-68 Blank	0
A-2 and A-3.....	1	FO-1 FP-19	1	FO-2 FP-1.....	0
A-4	0	FO-1 FP-20 Blank	0	FO-2 FP-2 Blank	0
B-1 thru B-13.....	0	FO-1 FP-21	0	FO-2 FP-3.....	0
B-14 thru B-19.....	1	FO-1 FP-22 Blank	0	FO-2 FP-4 Blank	0
B-20 Blank	1	FO-1 FP-23	1	FO-2 FP-5.....	0
C-1 and C-2.....	0	FO-1 FP-24 Blank	0	FO-2 FP-6 Blank	0
C-3 and C-4.....	1	FO-1 FP-25	0	FO-2 FP-7.....	0
D-1 thru D-6.....	1	FO-1 FP-26 Blank	0	FO-2 FP-8 Blank	0
E-1 and E-2.....	0	FO-1 FP-27	1	FO-3 FP-1.....	0
E-3 and E-4.....	1	FO-1 FP-28 Blank	0	FO-3 FP-2 Blank	0
E-5 thru E-20.....	0	FO-1 FP-29	1	FO-3 FP-3.....	0
E-21 and E-22 Added	1	FO-1 FP-30 Blank	0	FO-3 FP-4 Blank	0
F-1 thru F-8.....	0	FO-1 FP-31	1	FO-3 FP-5.....	0
G-1 thru G-10.....	1	FO-1 FP-32 Blank	0	FO-3 FP-6 Blank	0
G-11 Added	1	FO-1 FP-33	1	FO-4 FP-1.....	0
G-12 Blank Added	1	FO-1 FP-34 Blank	0	FO-4 FP-2 Blank	0
H-1	0	FO-1 FP-35	1	FO-4 FP-3.....	0
H-2 and H3	1	FO-1 FP-36 Blank	0	FO-4 FP-4 Blank	0
H-4	0	FO-1 FP-37	1	FO-5 FP-1.....	0
H-5.....	1	FO-1 FP-38 Blank	0	FO-5 FP-2 Blank	0
H-6 and H-7.....	0	FO-1 FP-39	1	FO-5 FP-3.....	0
H-8.....	1	FO-1 FP-40 Blank	0	FO-5 FP-4 Blank	0
H-9 thru H-17.....	0	FO-1 FP-41	1	FO-5 FP-5.....	0
H-18 and H-19.....	1	FO-1 FP-42 Blank	0	FO-5 FP-6 Blank	0
H-20.....	0	FO-1 FP-43	1	VOLUME 4	
H-21.....	1	FO-1 FP-44 Blank	0	Cover	1

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Page No.	*Change N*o.	Page No.	*Change No.	Page No.	*Change No.
Blank	0	16-96.1 and 16-96.2 Added	1	18-52 thru 18-55	0
a thru h	0	16-97	1	18-56 and 18-57	1
i	1	16-98 thru 16-104	0	18-58 thru 18-67	0
j	0	16-105 thru 16-110	1	18-68	1
A and B Added	1	16-110.1 and 16-110.2 Added	1	18-69	0
i thru iv	1	16-111	1	18-70 Blank	0
v Added	1	16-112 thru 16-115	0	19-1	1
vi Blank Added	1	16-116 thru 16-119	1	19-2 thru 19-4	0
16-1 thru 16-4	1	16-120 thru 16-127	0	19-5 thru 19-8	1
16-4.1 Added	1	16-128 and 16-129	1	19-8.1 thru 19-8.10 Added	1
16-4.2 Blank Added	1	16-130 thru 16-132	0	19-9 thru 19-20	1
16-5	1	16-133	1	19-20.1 thru 19-20.14 Added	1
16-6 and 16-7	0	16-134 thru 16-139	0	19-21	1
16-8	1	16-140	1	19-22 and 19-23	0
16-9	0	16-141 thru 16-143	0	19-24 and 19-25	1
16-10 thru 16-12	1	16-144 thru 16-150	1	19-26 thru 19-46	0
16-12.1 Added	1	16-151	0	19-47	1
16-12.2 Blank Added	1	16-152	1	19-48 thru 19-51	0
16-13 thru 16-15	0	16-153 thru 16-158	0	19-52	1
16-16	1	16-159	1	19-53	0
16-17	0	16-160 thru 16-177	0	19-54 thru 19-58	1
16-18	1	16-178 thru 16-180	1	19-59 thru 19-64	0
16-19 thru 16-21	0	16-181 thru 16-211	0	A-1	0
16-22	1	16-212	1	A-2 and A-3	1
16-23	0	16-213 thru 16-289	0	A-4	0
16-24 and 16-25	1	16-290 thru 16-302	1	B-1 thru B-13	0
16-26 thru 16-30	0	16-303 thru 16-392	0	B-14 thru B-19	1
16-31 and 16-32	1	16-393 thru 16-395	1	B-20 Blank	1
16-33 thru 16-37	0	16-396 thru 16-415	0	C-1 and C-2	0
16-38 and 16-39	1	16-416	1	C-3 and C-4	1
16-40	0	16-417 thru 16-486	0	D-1 thru D-6	1
16-40.1 Added	1	16-487 thru 16-497 Added	1	E-1 and E-2	0
16-40.2 Blank Added	1	16-498 Blank Added	1	E-3 and E-4	1
16-41	1	17-1	1	E-5 thru E-20	0
16-42	0	17-2 thru 17-6	0	E-21 and E-22 Added	1
16-42.1 Added	1	17-7 thru 17-9	1	F-1 thru F-8	0
16-42.2 Blank Added	1	17-10 thru 17-12	0	G-1 thru G-10	1
16-43 thru 16-57	1	17-13 and 17-14	1	G-11 Added	1
16-58 and 16-59	0	17-15 thru 17-27	0	G-12 Blank Added	1
16-60 thru 16-62	1	17-28	1	H-1	0
16-62.1 Added	1	17-29 and 17-30	0	H-2 and H-3	1
16-62.2 Blank Added	1	18-1	1	H-4	0
16-63 thru 16-73	1	18-2 thru 18-5	0	H-5	1
16-74	0	18-6 thru 18-8	1	H-6 and H-7	0
16-75 thru 16-78	1	18-9 thru 18-29	0	H-8	1
16-79	0	18-30	1	H-9 thru H-17	0
16-80	1	18-31	0	H-18 and H-19	1
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16-83 thru 16-96	0	18-51	1		

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H-21	1	FO-1 FP-43	1	VOLUME 5	
H-22 Blank	0	FO-1 FP-44 Blank	0	Cover	1
J-1	0	FO-1 FP-45	1	Blank	0
J-2 Blank	0	FO-1 FP-46 Blank	0	a thru h	0
K-1 thru K-4 Added	1	FO-1 FP-47	1	i	1
INDEX-1 thru INDEX-7	1	FO-1 FP-48 Blank	0	j	0
INDEX-8 Blank	0	FO-1 FP-49	1	A and B Added	1
Glossary-1 and Glossary-2	0	FO-1 FP-50 Blank	0	i thru iv	1
FO-1 FP-1	1	FO-1 FP-51	1	v Added	1
FO-1 FP-2 Blank	0	FO-1 FP-52 Blank	0	vi Blank Added	1
FO-1 FP-3	1	FO-1 FP-53	1	20-1 and 20-2	1
FO-1 FP-4 Blank	0	FO-1 FP-54 Blank	0	20-2.1 Added	1
FO-1 FP-5	1	FO-1 FP-55	1	20-2.2 Blank Added	1
FO-1 FP-6 Blank	0	FO-1 FP-56 Blank	0	20-3	1
FO-1 FP-7	1	FO-1 FP-57	1	20-4 Blank	1
FO-1 FP-8 Blank	0	FO-1 FP-58 Blank	0	20-5 thru 20-184 Deleted	1
FO-1 FP-9	1	FO-1 FP-59	1	20-185 thru 20-280	0
FO-1 FP-10 Blank	0	FO-1 FP-60 Blank	0	20-281	1
FO-1 FP-11	1	FO-1 FP-61	1	20-282 Blank	1
FO-1 FP-12 Blank	0	FO-1 FP-62 Blank	0	20-283 thru 20-312 Deleted	1
FO-1 FP-13	1	FO-1 FP-63	0	20-313 Blank	1
FO-1 FP-14 Blank	0	FO-1 FP-64 Blank	0	20-314	1
FO-1 FP-15	1	FO-1 FP-65	1	20-315 thru 20-318	1
FO-1 FP-16 Blank	0	FO-1 FP-66 Blank	0	20-319 thru 20-326	0
FO-1 FP-17	1	FO-1 FP-67	1	20-327 thru 20-330	1
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FO-1 FP-21	0	FO-2 FP-3	0	20-334	1
FO-1 FP-22 Blank	0	FO-2 FP-4 Blank	0	20-335 thru 20-343	0
FO-1 FP-23	1	FO-2 FP-5	0	20-344	1
FO-1 FP-24 Blank	0	FO-2 FP-6 Blank	0	20-345 thru 20-347	0
FO-1 FP-25	0	FO-2 FP-7	0	20-348 and 20-349	1
FO-1 FP-26 Blank	0	FO-2 FP-8 Blank	0	20-350 and 20-351	0
FO-1 FP-27	1	FO-3 FP-1	0	20-352 thru 20-354	1
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FO-1 FP-29	1	FO-3 FP-3	0	20-465 and 20-466	1
FO-1 FP-30 Blank	0	FO-3 FP-4 Blank	0	20-467 thru 20-471	0
FO-1 FP-31	1	FO-3 FP-5	0	20-472 thru 20-475	1
FO-1 FP-32 Blank	0	FO-3 FP-6 Blank	0	20-476 thru 20-480	0
FO-1 FP-33	1	FO-4 FP-1	0	20-481 thru 20-488	1
FO-1 FP-34 Blank	0	FO-4 FP-2 Blank	0	21-1 thru 21-11	1
FO-1 FP-35	1	FO-4 FP-3	0	21-12 and 21-13	0
FO-1 FP-36 Blank	0	FO-4 FP-4 Blank	0	21-14 Blank	0
FO-1 FP-37	1	FO-5 FP-1	0	22-1	1
FO-1 FP-38 Blank	0	FO-5 FP-2 Blank	0	22-2 thru 22-5	0
FO-1 FP-39	1	FO-5 FP-3	0	22-6 Blank	0
FO-1 FP-40 Blank	0	FO-5 FP-4 Blank	0	23-1	1
FO-1 FP-41	1	FO-5 FP-5	0	23-2	0
FO-1 FP-42 Blank	0	FO-5 FP-6 Blank	0	23-3 and 23-4	1

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23-5 thru 23-8	0	H-22 Blank	0	FO-1 FP-43	1
23-9 thru 23-11	1	J-1	0	FO-1 FP-44 Blank	0
23-12	0	J-2 Blank	0	FO-1 FP-45	1
23-13	1	K-1 thru K-4 Added	1	FO-1 FP-46 Blank	0
23-14	0	INDEX-1 thru INDEX-6	1	FO-1 FP-47	1
23-15 and 23-16	1	INDEX-7 Deleted	1	FO-1 FP-48 Blank	0
23-17	0	INDEX-8 Blank Deleted	1	FO-1 FP-49	1
23-18	1	Glossary-1 and Glossary-2	0	FO-1 FP-50 Blank	0
23-19	0	FO-1 FP-1	1	FO-1 FP-51	1
23-20	1	FO-1 FP-2 Blank	0	FO-1 FP-52 Blank	0
23-21 and 23-22	0	FO-1 FP-3	1	FO-1 FP-53	1
23-23	1	FO-1 FP-4 Blank	0	FO-1 FP-54 Blank	0
23-24 and 23-25	0	FO-1 FP-5	1	FO-1 FP-55	1
23-26	1	FO-1 FP-6 Blank	0	FO-1 FP-56 Blank	0
23-27	0	FO-1 FP-7	1	FO-1 FP-57	1
23-28	1	FO-1 FP-8 Blank	0	FO-1 FP-58 Blank	0
23-29 and 23-30	0	FO-1 FP-9	1	FO-1 FP-59	1
23-31 and 23-32	1	FO-1 FP-10 Blank	0	FO-1 FP-60 Blank	0
23-32.1 and 23-32.2 Added	1	FO-1 FP-11	1	FO-1 FP-61	1
23-33 and 23-34	1	FO-1 FP-12 Blank	0	FO-1 FP-62 Blank	0
23-35 and 23-36 Added	1	FO-1 FP-13	1	FO-1 FP-63	0
24-1	1	FO-1 FP-14 Blank	0	FO-1 FP-64 Blank	0
24-2	0	FO-1 FP-15	1	FO-1 FP-65	1
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A-2 and A-3	1	FO-1 FP-17	1	FO-1 FP-67	1
A-4	0	FO-1 FP-18 Blank	0	FO-1 FP-68 Blank	0
B-1 thru B-13	0	FO-1 FP-19	1	FO-2 FP-1	0
B-14 thru B-19	1	FO-1 FP-20 Blank	0	FO-2 FP-2 Blank	0
B-20 Blank	1	FO-1 FP-21	0	FO-2 FP-3	0
C-1 and C-2	0	FO-1 FP-22 Blank	0	FO-2 FP-4 Blank	0
C-3 and C-4	1	FO-1 FP-23	1	FO-2 FP-5	0
D-1 thru D-6	1	FO-1 FP-24 Blank	0	FO-2 FP-6 Blank	0
E-1 and E-2	0	FO-1 FP-25	0	FO-2 FP-7	0
E-3 and E-4	1	FO-1 FP-26 Blank	0	FO-2 FP-8 Blank	0
E-5 thru E-20	0	FO-1 FP-27	1	FO-3 FP-1	0
E-21 and E-22 Added	1	FO-1 FP-28 Blank	0	FO-3 FP-2 Blank	0
F-1 thru F-8	0	FO-1 FP-29	1	FO-3 FP-3	0
G-1 thru G-10	1	FO-1 FP-30 Blank	0	FO-3 FP-4 Blank	0
G-11 Added	1	FO-1 FP-31	1	FO-3 FP-5	0
G-12 Blank Added	1	FO-1 FP-32 Blank	0	FO-3 FP-6 Blank	0
H-1	0	FO-1 FP-33	1	FO-4 FP-1	0
H-2 and H-3	1	FO-1 FP-34 Blank	0	FO-4 FP-2 Blank	0
H-4	0	FO-1 FP-35	1	FO-4 FP-3	0
H-5	1	FO-1 FP-36 Blank	0	FO-4 FP-4 Blank	0
H-6 and H-7	0	FO-1 FP-37	1	FO-5 FP-1	0
H-8	1	FO-1 FP-38 Blank	0	FO-5 FP-2 Blank	0
H-9 thru H-17	0	FO-1 FP-39	1	FO-5 FP-3	0
H-18 and H-19	1	FO-1 FP-40 Blank	0	FO-5 FP-4 Blank	0
H-20	0	FO-1 FP-41	1	FO-5 FP-5	0
H-21	1	FO-1 FP-42 Blank	0	FO-5 FP-6 Blank	0

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NO. 9-2320-365-20-1

HEADQUARTERS
DEPARTMENTS OF THE ARMY
AND THE AIR FORCE

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

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. 1 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

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