

DEPARTMENTS OF THE ARMY AND AIR FORCE TECHNICAL BULLETIN

WARRANTY PROGRAM

FOR

M1078A1 SERIES, 2-1/2 TON, 4X4,
LIGHT MEDIUM TACTICAL VEHICLES (LMTV)

Contract Number DAAE07-98-C-M005
Contract Number DAAE07-03-C-S023

Headquarters, Department of the Army, Washington, DC
Headquarters, Department of the Air Force, Washington, DC
29 January 2007

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 2028-2 (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, DA Form 2028, or DA Form 2028-2 direct to: Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-LC-CIP-WT, 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.

SECTION I

FMTV A1's Serial Numbers Through 099999
Contract Number DAAE07-98-C-M005

(See Section II for FMTV A1's, Serial Numbers 100001 and up)

1. General. The FMTVA1, serial numbers up through 099999, has an S&S Extended Warranty and Pass-Through Warranties, which are Vendor's (Allison, Caterpillar, Michelin) Commercial Warranties. These vehicles may also have some additional warranty coverage described in paragraphs 6 through 9. All are administered by Armor Holdings Tactical Vehicle Systems Division (TVS). The items identified in Table 1. Supplier Summary Section are items which have Pass-Through Warranties available. The terms, duration,

warranty start dates, etc., vary greatly between the Vendors. For example, some Vendor's Warranties begin when the item is manufactured, others begin when the end item ships from TVS. For some warranties, TVS must review documentation to find out if an item is still covered by warranty. The items identified in Table 2. S&S Extended Summary Section are items warranted by TVS. To find out if a Pass-Through Warranty for an item listed in Table 1. Supplier Summary Section, an S&S Extended Warranty for an item listed in Table 2, or

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additional warranty coverage described in paragraphs 6 through 9 are still in effect, simply contact your local WARCO. Your local WARCO can contact TVS at 1-800-221-3688, and ask for the Warranty Department, or contact them through their website at www.tvsonlinesupport.com. The Warranty Department will need the information in paragraph 3.b. to determine if the Warranty is still in effect. This bulletin provides implementation instructions for the Pass-Through, S&S Extended Warranties, and additional warranty coverage described in paragraphs 6 through 9 on the M1078A1 Series, 2-1/2 Ton, 4X4, Light Medium Tactical Vehicles (LMTV). It contains instructions for obtaining services and/or supplies covered under warranty. This bulletin also describes methods of processing warranty claims. For additional warranty information on the M1078A1 Series, 2-1/2 Ton, 4X4, Light Medium Tactical Vehicles (LMTV) or any U.S. Army Tank-automotive and Armaments Command (TACOM) equipment, contact your local Warranty Control Office/Officer (WARCO) or TACOM Logistics Assistance Representative (LAR). If your WARCO or TACOM LAR is not available, or if additional information is required, contact TACOM. The number to call is DSN 786-8081, COMMERCIAL (810) 574-8081. The caller should be prepared to provide: (1) name, (2) DSN and commercial telephone numbers, (3) complete unit designation, (4) identification of the vehicle, to include the serial number(s), (5) a brief description of the problem, (6) the contract number (see paragraph 3), and (7) operating hours or miles on the equipment.

2. Explanation of Terms.

- a. Abuse.** The improper use, maintenance, repair or handling of warranted items that may cause the warranty of those items to become void, for example, not following service intervals, using the vehicle for other than what is intended.
- b. Acceptance.** The execution of the Acceptance Block and signing of DD Form 250, by the authorized Government representative.
- c. Acceptance Date.** The date an item of equipment is accepted into the Army's inventory by the execution of the Acceptance Block and signing of a DD Form 250 or, in case of S&S Extended Warranty, date of shipment for purposes of fielding. Pass-Through Warranties may be different.
- d. Contractor.** The supplier of equipment who enters into an agreement directly with the Government to furnish supplies.
- e. Correction.** The elimination of a defect.
- f. Defect.** Any condition or characteristic in supplies furnished by the Contractor that does not function as intended.
- g. Pass-Through Warranty.** A vendor's (e.g., Caterpillar) commercial warranty that provides warranty coverage.
- h. Failure.** A part, component, or end item that fails to perform its intended use.
- i. Owning Unit.** The Army Unit authorized to operate, maintain, and use the equipment.
- j. Repair.** A maintenance action required to restore an item to serviceable condition without affecting the warranty.
- k. Supplies.** All assemblies, subassemblies, and down parts to the lowest level that comprise an end item.
- l. WARCO.** Serves as the intermediary between the troops owning the equipment and the local dealer, Contractor, or manufacturer. All warranty claim actions will be processed through the WARCO.
- m. Warranty.** A written agreement between a Contractor and the Government which outlines the rights and obligations of both parties for defective supplies.
- n. Warranty Claim.** Action started by the equipment user for authorized warranty repair or reimbursement.
- o. Warranty Expiration Date.** The date the warranty is no longer valid. This date will vary depending on each vendors Pass-Through Warranty. The S&S Extended Warranty expires 16 months after the Government Acceptance Date. Additional warranty coverages identified in paragraphs 6 through 9 will vary.
- p. Warranty Period.** Time during which the warranty is in effect. Normally measured as the

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maximum number of years, months, days, miles, or hours used.

q. Warranty Start Date. The date the warranty is put into effect.

3. Coverages-Specific. The FMTVA1, serial numbers up through 099999, has S&S Extended and Pass-Through Warranties, which are Vendor's (Allison, Caterpillar, Michelin) Commercial Warranties, as well as some additional warranty coverage described in paragraphs 6 through 9, that are administered by Armor Holdings Tactical Vehicle Systems (TVS). The items identified in Table 1. Supplier Summary Section are items which have Pass-Through Warranties available. The terms, duration, warranty start dates, etc., vary greatly between the Vendors. For example, some Vendor's Warranties begin when the item is manufactured, while others begin when the end item ships from TVS. For some warranties, TVS must review documentation to find out if an item is still covered by warranty. The items identified in Table 2. S&S Extended Summary Section are items warranted by TVS. The additional coverages identified in paragraphs 6 through 9 may be warranted by a Vendor or TVS. To find out if a Pass-Through Warranty for an item listed in Table 1. Supplier Summary Section, an S&S Extended Warranty for an item listed in Table 2., or any additional coverage as described in paragraphs 6 through 9 are still in effect, simply contact your local WARCO. Your local WARCO can contact TVS at 1-800-221-3688, and ask for the Warranty Department, or online through their website at www.tvsonlinesupport.com. The Warranty Department will need the information in paragraph 3.b. to determine if the Warranty is still in effect. This Technical Bulletin applies to the vehicles listed. The items are manufactured by Armor Holdings, Tactical Vehicle Systems (TVS) under contract number DAAE07-98-C-M005. Inquiries to TVS can be made by calling 1-800-221-3688 or going to the website at www.tvsonlinesupport.com. These are the M1078A1 series models and the National Stock Numbers (NSN) for each:

- TRUCK, CARGO, LMTV, M1078A1; w/o wn 2320-01-447-6343, w/wn 2320-01-447-3888
- TRUCK, CHASSIS, LMTV, M1080A1, w/o wn 2320-01-447-6345
- VAN, LMTV, M1079A1; w/o wn 2320-01-447-4938, w/wn 2320-01-447-4933

a. Defects. If a defect/failure is caused by (or falls within) any of the following categories, it is not considered warrantable and a claim should not be initiated:

- (a) Misuse or negligence
- (b) Accidents
- (c) Improper operation
- (d) Improper storage
- (e) Improper transport
- (f) Improper or insufficient maintenance service
- (g) Improper alterations or repairs
- (h) Defect/failure discovered or occurring after warranty expiration date
- (i) Fair wear and tear items (brake shoes, CTIS seals, pads, armatures, brushes, etc)
- (j) Foreign object damage
- (k) Improper packing or handling
- (l) Combat damage
- (m) Consequential damages resulting from a defect or failure

b. Pass-Through, S&S Extended Warranties, and Additional Coverages Described in Paragraphs 6 Through 9. Take advantage of coverage provided by these warranties. Pass-Through Warranties are provided by the vendors in Table 1. Supplier Summary Section, but will be administered by TVS through your local WARCO. S&S Extended Warranties, in Table 2. S&S Extended Summary Section, are supplied by TVS through your local WARCO. Additional coverages described in paragraphs 6 through 9 may be supplied by either source. To obtain services for Pass-Through, S&S Extended Warranties, or additional coverages described in paragraphs 6 through 9, your local WARCO simply contacts TVS at 1-800-221-3688 and asks for the Warranty Department, or goes to their website at www.tvsonlinesupport.com, and provides the following information:

- 1) Vehicle S/N
- 2) Vehicle mileage
- 3) Defective Component P/N
- 4) Description of the Defect
- 5) Component Serial No. or Date Code, if available
- 6) Quantity
- 7) Person to Contact on the Request for Warranty, to include: telephone, fax number and shipping address. This

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information can be sent by your local WARCO through the TVSLP website at www.tvsonlinesupport.com, or via electronic mail (warranty@armorholdings.com) utilizing DA Form 2407.

coverages described in paragraphs 6 through 9 outline start dates in their respective paragraphs.

(b) For Pass-Through, S&S Extended Warranty, or additional coverages described in paragraphs 6 through 9 your local WARCO simply contacts TVS online at www.tvsonlinesupport.com or calls 1-800-221-3688, asks for the Warranty Department, and provides the information in paragraph 3.b. TVS will obtain the warranty start date and notify the Government if the warranty period has expired.

c. Warranty Start Dates.

(a) Information to determine Pass-Through Warranty start dates for Allison, Caterpillar, and Michelin are listed later in this Bulletin. S&S Extended Warranties start at shipment of the vehicle for purposes of fielding. Additional

4. Pass-Through Warranties. Serial numbers up through 099999

Table 1. Supplier Summary Section

VENDOR	GOV'T PART NO	NSN	DESCRIPTION
Allison	12421787-002	2520-01-460-9681	ECU
Allison	12421786	-	Shift Selector
Allison	29534235	2520-01-467-8473	Transmission, Hydraulic
Caterpillar	129-3191	2815-01-470-5796	Camshaft Assembly
Caterpillar	7E6794	2815-01-360-4450	Camshaft Followers
Caterpillar	12422551-001	-	Electronic Control Module
Caterpillar	12421794-001	-	Engine, Diesel ¹
Caterpillar	173-9267	2910-01-470-6177	Fuel Injector
Caterpillar	144-3472	-	Intake Manifold Gasket
Caterpillar	143-5985	-	Turbo Compressor Housing
Caterpillar	166-0331	-	Turbo Turbine Housing
Caterpillar	145-6098	-	Turbocharger Cartridge
Michelin	12378858	2610-01-356-9098	Tire, Pneumatic

¹ Engine for Dressed Engine 12414398-005, NSN 2815-01-467-8471.

a. Allison

1. **Warranty Period.** The warranty start date is 3 months from date indicated in Block 3 of the DD Form 250 and expires 24 months from that date, unless a failure occurs within the first 3 months from DD250 date, that failure date then becomes the warranty start date and expires 24 months later. It does not cover accident damage, misuse, alterations, damage due to lack of maintenance or use of fluids not recommended, normal maintenance such as filters, screens, and fluids, repairs by unauthorized dealers, and use of other than Allison transmission parts. The warranty

includes the transmission, ECU and Shift Selector.

2. **Coverage.** Repairs or replacement, at Allison's option, to correct any transmission malfunction resulting from defects in material or workmanship during the warranty period. All repairs will be performed using the method Allison determines most appropriate under the circumstances. Labor costs for the removal and reinstallation of the transmission are covered when necessary to make a repair. An authorized Allison distributor must perform all warranty repairs.

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3. **Towing.** Towing to the nearest Allison Distributor or authorized Dealer is covered only when necessary to prevent further transmission damage. Field service is provided under this warranty. If the vehicle can be driven, at Allison's request, they may require the vehicle be delivered to the nearest authorized repair center within a reasonable amount of time. A reasonable amount of time must be allowed for the repair center to perform repairs.

4. **Procedure.** Unit will submit a DA Form 2407 to their WARCO for submittal to TVS for warranty consideration.

b. Caterpillar

1. **Warranty Period.** 36 months or 150,000 miles, from TVS's warranty start date, whichever occurs first. This is a worldwide warranty. In addition, Caterpillar provides the 60 month, 100,000 mile, emissions warranty for vehicles operating in the United States. Both warranties cover genuine Caterpillar components only; this is not a dressed engine warranty.

2. **Towing.** The user must deliver the vehicle to the nearest Caterpillar dealer. If the vehicle is not in driving condition, Caterpillar will pay for towing.

3. **Procedure.** After submittal of warranty request to TVS, a Notification of Failure will be submitted to the nearest authorized Caterpillar dealer. The dealer is requested to contact the

WARCO to arrange for warranty evaluation. The customer must provide access to electronic data stored in the ECU and the engine must remain in the vehicle.

4. **Emissions Warranty Parts Covered.** Fuel Injectors, Camshaft Assembly, Engine Rocker Arms, Turbocharger, Intake Manifold Gasket, Electronic Control Module (ECM). (See Parts Listing for Part Numbers). Items such as aftercooler core, pipes, hoses and clamps are TVS supplied items and are not covered by this warranty.

c. Michelin

1. **Warranty Period.** 5 years from the date of manufacture of the tire or the life of the original usable tread down to 2/32nds of an inch of tread remaining.

2. **Coverage.** User must pay for the cost of a new tire on a pro-rata basis calculated by multiplying the current negotiated TACOM replacement price or the Government Open Market price, whichever is applicable, by the percentage of usable tread. This does not include any mounting, balancing or other charges.

3. **Procedure.** ALL CONUS claims must be addressed through the Michelin Government Sales Department at 1-800-TIRE-HELP. ALL OCONUS claims must be forwarded to TVS for processing through Michelin's 1-800-TIRE-HELP line.

5. S&S Extended Warranties. Serial numbers up through 099999

Table 2. S&S Extended Summary Section

VENDOR	GOV'T PART NO	NSN	DESCRIPTION
C.E. Niehoff	N1506-1	6115-01-419-4033	Generator, Alternator
C.E. Niehoff	N2003	6130-01-502-2579	Device, Control, Load
Dana Chelsea	12378814-001	2520-01-362-3573	Power Take-off (PTO)
Dana Spicer	12421947-002	-	Cable Assembly, CTIS
Dana Spicer	12378682-001	2920-01-470-5711	ECU, CTIS
Dana Spicer	12417381	5930-01-372-9484	Switch, Pressure
Dana Spicer	12417383-002	4820-01-370-2751	Valve, Angle
Dana Spicer	12378688	2530-01-360-6198	Valve, Brake, Pneumatic
Dana Spicer	12418057	4820-01-372-2769	Valve, Regulating

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Table 2. S&S Extended Summary Section (Cont)

VENDOR	GOV'T PART NO	NSN	DESCRIPTION
Haldex	12414366-001	4730-01-361-2173	Air Drier and Cooler
Haldex	12378830-001	2530-01-361-5075	Compressor, Reciprocating
Holland	MS51117-1	2540-00-047-3926	Pintle Assembly
Kysor Cooling	12421971	2930-01-331-6660	Clutch, Fan
Meritor	12421817	2520-01-463-9188	Axle Assembly ²
Meritor	12421816	2520-01-464-4568	Axle Assembly ²
Meritor	483-49-050-145	2520-01-478-7612	Drive Shaft Assembly
Meritor	483-49-050-433	2520-01-480-9675	Drive Shaft Assembly
Meritor	12422207	-	ECU, ABS
Sauer Sundstrand	12414372-001	2530-01-368-9501	Pump Assembly, Power
Sauer Sundstrand	12414359	4320-01-363-2294	Pump, Rotary
Serck	12422174	-	Cooler, Fluid, Transmission
Sprague	12417597	6220-01-376-3676	Control, Directional
Sprague	12414349	2540-01-361-5201	Motor, Windshield Wiper
Steyr	12417493-002	2540-01-376-3998	Handle, Door
Steyr	12417493-001	2540-01-376-3999	Handle, Door
Steyr	12417511	2430-01-377-6614	Housing, Steering
Steyr	12417884	2530-01-378-6001	Steering Wheel
Steyr	12418168	2510-01-420-9972	Support, Cab Assembly
Williams Controls	12422047	2540-01-470-6026	Pedal, Control, Accelerator

² Applies to down parts of axle assemblies only, not the complete axle assembly.

a. Warranty Period. The warranty period for all items listed in Table 2. S&S Extended Summary Section is 16 months and begins with shipment of the vehicle for purposes of fielding.

b. Coverage. This is a replacement part warranty only. Labor is not included. In the case of axles, this warranty only provides for

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replacement down parts of the axle assembly. Fair wear and tear items are not included

c. Procedure. Unit will submit a DA Form 2407 to their WARCO for submittal to TVS for warranty consideration. Upon claim approval, TVS will ship replacement parts to their Field Service Representative. The Field Service Representative will exchange the replacement part for the defective part with the WARCO. OCONUS requirements (excluding Alaska and Hawaii) will be shipped to a Government provided APO. If the part is too heavy for APO shipment, the unit and WARCO must provide a CONUS Port of Embarkation and make arrangements for shipment from that CONUS Port. Installations not represented by a Field Service Representative will be provided replacement parts through their WARCO. The WARCO will be responsible for returning defective supplies to TVS using the replacement part/container.

- 6. Exhaust Brake Solenoid (Vehicles S/N 11438 - 17413. P/N 12421985-001, NSN 5945-01-480-0484).** Warranty period for exhaust brake solenoid on above listed vehicles is forty-eight (48) months from DD250 date. If exhaust brake fails to exhaust, remove exhaust brake from vehicle and check butterfly for damage. If butterfly is damaged, request brake kit P/N C10374. Kit comes with installation instructions. Both parts, the solenoid and brake kit, will be shipped to field location directly from Pac Brake.
- 7. Radiator (Vehicles S/N 11438 – 21,728. P/N 12378882-005, NSN 2930-01-363-8145).** Warranty period for radiator on above listed vehicles is thirty-six (36) months from DD250 date. Radiator is warranted if it has poor fin-tube bonding, tank to header joint seam leaks, or outlet/inlet tube to header joint seam leaks. Follow the instructions in paragraphs 3b and 5c, S&S Extended Warranties.
- 8. Secondary Battery Box Latch (Vehicles S/N ranges: 16307 – 16431, 16446 – 16710, 16759 – 16948, 16995 – 17211, 17264 – 17432, 17477 – 17689, 17739 – 17891, 17955 – 18101, 18117 – 18320, 18376 – 18514. P/N 12420089, NSN 6160-01-442-9783).** Warranty period for secondary battery box latch on above vehicles is thirty-six (36) months from shipment of vehicle. If plastic latch breaks, replacement latch kit and installation instructions

will be shipped to repair battery box. Follow the instructions in paragraphs 3B and 5C, S&S Extended Warranties.

- 9. Ohio Casting Produced Parts (Vehicle S/N range 21604 – 25268).** Warranty Period for Ohio Casting produced parts installed in above listed vehicles is fifty-four (54) months from DD250 date. Follow the instructions in paragraphs 3b & 5c, S&S Extended Warranties. Part numbers applying to Light Medium Tactical Vehicles (LMTV) include:

<u>Gov't P/N</u>	<u>NSN</u>	<u>Description</u>
12414306	2590-01-443-2208	Bracket, Alt
12417307	2530-01-377-6617	Bracket, Steering
12417393	5340-01-371-1077	Plate, Spring Clamp
12417403	2510-01-377-3040	Frame Sect, Struct
12417407	2510-01-370-2726	Bracket Spring, Ft
12417411	2510-01-387-8469	Bracket, Stiffener

- 10. Contractor Responsibilities.** The Pass-Through Warranties are provided by vendors in Table 1. Supplier Summary Section, but will be administered by TVS through your local WARCO. S&S Extended Warranties in Table 2. S&S Extended Summary Section are provided by TVS through your local WARCO. To obtain services for Pass-Through or S&S Extended Warranties, your local WARCO simply contacts TVS through their website at www.tvsonlinesupport.com, or at 1-800-221-3688, asks for the Warranty Department, and provides the information in paragraph 3.b.

- 11. Government Responsibilities.** The Major Subordinate Command for the M1078A1 Series, 2-1/2 Ton, 4X4, Medium Tactical Vehicles (MTV) is the U.S. Army Tank-automotive and Armaments Command (TACOM), Warren, MI 48397-5000. TACOM is responsible for managing and implementing the warranty. Warranty claims will be reported to:

Commander
U.S. Army Tank-automotive and Armaments
Command
ATTN: AMSTA-AC-NML
Rock Island, IL 61299-7630
Email: tacom-tech-pubs@ria.army.mil
Fax: DSN 793-0726
Commercial: (309) 782-0726

- a. TACOM will:**

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(a) Verify, review, process and if valid and complete, submit claims (reimbursable and/or disputes) to the Contractor.

(b) Reject claims that are not valid and send them back to the local WARCO with a short explanation of why the claim is rejected.

(c) Request additional information for incomplete claims.

(d) Provide warranty claim acknowledgment/closeout letters and/or parts/assemblies disposition instructions to the local WARCO.

(e) Ensure the Contractor performs in accordance with the terms of the contract.

b. Equipment owning unit will:

(a) Identify defects/failures and verify that the defects/failures are warrantable.

(b) Submit warranty claims, using DA Form 2407 and DA Form 2407-1 Maintenance Request Claims through channels to the supporting repair facility.

(c) Tag and retain parts, pieces of parts and/or assemblies removed at the owning unit level and as a result of a warrantable defect/ failure and/or correction, in accordance with DA PAM 738-750 The Army Maintenance Management System (TAMMS) and this Technical Bulletin.

c. Supporting repair facility will:

(a) Identify defects/failures as warrantable (if owning unit has not already identified them). Verify defects/ failures are warrantable.

(b) Review, process and submit valid warranty claims to the local WARCO if the DA Form 2407 and DA Form 2407-1 are complete and correctly filled out.

(c) Reject invalid warranty claims or request additional information for incomplete and incorrect claims.

(d) Coordinate with the owning unit and decide which option for repair is desired to correct the warrantable defect/failure.

(e) Depending upon which repair option was selected (Government or contract repair), provide labor/parts required to accomplish the warrantable repairs.

(f) Tag and retain (in accordance with DA PAM 738-750 The Army Maintenance Management System (TAMMS) and this Technical Bulletin) all parts, pieces or parts and/or assemblies removed as a result of warrantable defect/failure and/or correction.

d. Local WARCO will:

(a) Verify, administer, and process warranty claims to the TACOM WARCO (in accordance with DA PAM 738-750 The Army Maintenance Management System (TAMMS) and this Technical Bulletin).

(b) Act as a liaison with the owning unit, the Contractor, supporting repair facility, and TACOM.

(c) Notify the owning units of all warranty claim acknowledgments/closeouts, information and/or instructions received from TACOM or the Contractor.

(d) Act as a liaison between local dealers and the Army.

e. Alterations/Modifications. Alterations/modifications shall not be applied unless authorized by TACOM.

f. Lubrication and Service. The manufacturer's lubrication and service intervals must be followed at all times.

12. Claim Procedures.

a. The procedures for reporting warranty claims are found in DA PAM 738-750 The Army Maintenance Management System (TAMMS) and this Technical Bulletin. Responsibilities of the Major Army Command (MACOM) are found in AR 700-139 Army Warranty Program, Concepts and Policies. Units should use DA Form 2407 and DA Form 2407-1 for making warranty claims. It is very important

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to fill in the blocks on the forms as accurately as possible.

b. The Contractor shall be notified in writing via the website (www.tvsonlinesupport.com), or electronic mail (warranty@armorholdings.com) utilizing DA Form 2407 by the local WARCO following the discovery of a defect in supplies which requires Contractor/vendor repair and/or replacement parts. This shall constitute formal notification of a warranty claim. The notification shall include, but not be limited to furnishing the equipment serial number, operating hours, part number or NSN of the defective part and circumstances surrounding the defect(s). Upon completion of Contractor/vendor repair, forward completed warranty claims (Information Only) to TACOM.

c. Identification of Failed Items. Failed warranty items shall be tagged/identified to prevent improper repair or use. Documents that describe the use of DA Form 2402 Exchange Tag and DA Form 2407 Maintenance Request shall be referenced. Items requiring special handling, storage or shipment during the processing of claims shall be identified.

d. Disposition. The repair activity shall return defective supplies to the Contractor's representative or ship them back at their expense using the replacement part carton/container.

e. Invalid Warranty Claims. When supplies are inspected by the Contractor/vendor and found to be non-warrantable, or the supplies are found to be serviceable, the repair activity submitting the claim will be required to make reimbursement for Contractor/vendor services. Additionally, regarding Contractor/ vendor repair, the local WARCO must stipulate at the time of request for services that either non-warranty work be stopped at the time it is determined non-warrantable or be prepared to pay for completion of such work. In either case, the WARCO must be prepared to pay for diagnosis and trip charges for non-warranty service.

f. Air Force Warranty Claims. Air Force warranty claims shall be submitted as follows:

(1) For letter warranty claims:
WR-ALC/LVR
225 Ocmulgee CT
Robbins AFB, GA 31098-1647
DSN 468-7161
COML (912) 926-7126

(2) For Teletype warranty claims:
WR-ALC ROBBINS AFB GA//LVR

13. Reimbursement for Army Repair. The Contractor shall reimburse the Government by submitting monies quarterly to United States Army Tank-automotive and Armaments Command, ATTN: SFAE-CSS-TV-M (PM, MTV Office), Warren, Michigan 48397-5000. All checks will be made payable to the "Treasurer of the United States". In the event that the repair activity should receive any reimbursement from the Contractor, the monies must be forwarded to the above address.

14. Claim Denials/Disputes. TACOM will handle all denials or disputes.

15. Reporting. Reporting or recording action on a failed item shall be as specified in DA PAM 738-750 The Army Maintenance Management System (TAMMS). Forms that are unique to the Contractor or Repair Activity shall not be used.

16. Storage/Shipment/Handling.

a. Storage. Not applicable.

b. Shipment. See paragraphs 5.c, 11.b, 11.c, 12.c and 12.d.

c. Handling. See paragraphs 5.c, 11.b, 11.c, 12.c and 12.d.

SECTION II

FMTV A1's Serial Numbers 100001 Through 199999

Contract Number DAAE07-03-C-S023

(See Section I for FMTV A1's Serial Numbers up to 099999)

1. General. This Section provides information and implementation instructions for the

Warranty on the FMTVA1, serial numbers 100001 through 199999, manufactured under

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contract DAAE07-03-C-S023. It contains instructions for obtaining services and/or supplies covered under warranty. This Section also describes methods of processing warranty claims. For additional information on the FMTV or any U.S. Army Tank-automotive and Armaments Command (TACOM) equipment, contact your local Warranty Control Office/Officer (WARCO) or TACOM Logistics Assistance Representative (LAR). If your WARCO or TACOM LAR is not available or if additional information is required, contact TACOM. The number to call is DSN 786-8081, COMMERCIAL (810) 574-8081. The caller should be prepared to provide: (1) name, (2) DSN and commercial telephone numbers, (3) complete unit designation, (4) identification of the vehicle, to include the serial number(s), (5) a brief description of the problem, (6) the contract number (see paragraph 3), and (7) operating hours or miles on the equipment.

2. Explanation of Terms.

- a. **Abuse.** The improper use, maintenance, repair, or handling of warranted items that may cause the warranty of those items to become void, for example, not following service intervals, using the vehicle for other than what is intended.
- b. **Acceptance.** The execution of the Acceptance Block and signing of DD Form 250, by the authorized Government representative.
- c. **Acceptance Date.** The date an item of equipment is accepted into the Army's inventory by the execution of the Acceptance Block and signing of a DD Form 250 or, in case of Material and Workmanship Warranty, date of hand off as evidenced by the user's hand receipt or property book. Pass-Through Warranties may be different.
- d. **Contractor.** The supplier of equipment who enters into an agreement directly with the Government to furnish supplies.
- e. **Correction.** The elimination of a defect.
- f. **Defect.** Any condition or characteristic in supplies furnished by the Contractor that does not function as intended.
- g. **Pass-Through Warranty.** A vendor's (e.g., Caterpillar) commercial warranty that provides warranty coverage.
- h. **Failure.** A part, component, or end item that fails to perform its intended use.
- i. **Owning Unit.** The Army Unit authorized to operate, maintain, and use the equipment.
- j. **Reimbursement.** A written provision in this warranty in which the Using/Support Unit requests replacement parts from the Contractor to make the necessary repairs, and the Government will be reimbursed for the labor required to correct or repair the end item.
- k. **Repair.** A maintenance action required to restore an item to serviceable condition without affecting the warranty.
- l. **Supplies.** All assemblies, subassemblies, and down parts to the lowest level that comprise an end item.
- m. **WARCO.** Serves as the intermediary between the troops owning the equipment and the local dealer, Contractor, or manufacturer. All warranty claim actions will be processed through the WARCO.
- n. **Warranty.** A written agreement between the Contractor and the Government which outlines the rights and obligations of both parties for defective supplies.
- o. **Warranty Claim.** Action started by the equipment user for authorized warranty repair or reimbursement.
- p. **Warranty Expiration Date.** The date the warranty is no longer valid. This date will vary depending on each vendor's Pass-Through Warranty. The Material and Workmanship Warranty expires 24 months after the Government Acceptance Date. Ohio Cast parts described in

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paragraph 6 expire 60 months from the DD250 date.

q. Warranty Period. Time during which the warranty is in effect. Normally measured as the maximum number of years, months, days, miles, or hours used.

r. Warranty Start Date. The date the warranty is put into effect.

3. Coverages-Specific. The FMTVA1R, serial numbers 100001 through 199999, have Material and Workmanship and Pass-Through Warranties, which are Vendor's (Allison, Caterpillar, Michelin) Commercial Warranties, as well as Ohio Casting warranty described in paragraph 6, that are administered by Armor Holdings Tactical Vehicle Systems (TVS). The items identified in Table 1. Supplier Summary Section are items which have Pass-Through Warranties available. The terms, durations, warranty start dates, etc., vary greatly between the Vendors. For example, some Vendor's Warranties begin when the item is manufactured, while others begin then the end item ships from TVS. Regardless of Pass-Through Warranties, all items may be warranted by TVS under the 24 month Material and Workmanship Warranty which covers parts and labor for claims having a total value of \$300.00 or more, parts and labor combined, calculated at Contractor cost of parts plus labor. Ohio Casting warranty, described in paragraph 6, begins with DD250 date. To find out if a Pass-Through Warranty for an item listed in Table 1. Supplier Summary Section, the Material and Workmanship Warranty, or Ohio Casting warranty described in paragraph 6 are still in effect, simply contact your local WARCO. Your local WARCO can inquiry TVS's website (www.tvsonlinesupport.com) or contact TVS at 1-800-221-3688, and ask for the Warranty Department. The Warranty Department will need the information in paragraph 3.b. to determine if the warranty is still in effect. This Technical Bulletin, Section II, applies to the vehicles listed. The items are manufactured by Armor Holdings Tactical Vehicle Systems (TVS) under contract number DAAE07-03-C-S023. Inquiries to TVS can be made by calling 1-800-221-3688 or visiting their website at www.tvsonlinesupport.com. These are the M1078A1 series models and the National Stock Numbers (NSN) for each:

- TRUCK, CARGO, LMTV, M1078A1; w/o wn 2320-01-447-6343, w/wn 2320-01-447-3888
- VAN, LMTV, M1079A1; w/o wn 2320-01-447-4938, w/wn 2320-01-447-4933
- TRUCK, CHASSIS, LMTV, M1080A1; w/o wn 2320-01-447-6345

a. Defects. If a defect/failure is caused by (or falls within) any of the following categories, it is not considered warrantable and a claim should not be initiated:

- i. Misuse or negligence
- ii. Accidents
- iii. Improper operation
- iv. Improper storage
- v. Improper transport
- vi. Improper or insufficient maintenance service
- vii. Improper alterations or repair
- viii. Defect/failure discovered or occurring after warranty expiration date
- ix. Fair wear and tear items (brake shoes, CTIS seals, pads, armatures, brushes, etc)
- x. Foreign object damage
- xi. Improper packing or handling
- xii. Combat damage
- xiii. Consequential damages resulting from a defect or failure
- xiv. Failure of parts/components resulting in less than \$300.00 combined, labor and contractor cost of parts (Not applicable to Pass-Through Warranties)

b. Pass-Through, Material and Workmanship, and Ohio Casting Warranties. Pass-Through Warranties are provided by the vendors in Table 1. Supplier Summary Section, but will be administered by TVS through your local WARCO. Material and Workmanship Warranties and Ohio Casting warranty as described in paragraph 6 are supplied by TVS through your local WARCO. To obtain services for Pass-Through, Material and Workmanship, or Ohio Casting Warranties, your local WARCO contacts TVS through their website (www.tvsonlinesupport.com)

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or calls 1-800-221-3688, asks for the Warranty Department, and provides the following information:

- i. Customer work order number
- ii. Customer complete address
- iii. Vehicle serial number
- iv. Vehicle mileage
- v. Defective component part number
- vi. Manufacturer cage code
- vii. Defective component National Stock Number
- viii. Description of the defect including codes from the electronic boxes
- ix. Component serial number or date code, if available
- x. Quantity
- xi. Person to contact on the request for warranty, to include: telephone, fax number and shipping address. This information can be sent by your local WARCO to TVS's website (www.tvsonlinesupport.com) or

electronic mail
(warranty@armorholdings.com).

c. Warranty Start Dates.

- i. Information to determine Pass-Through Warranty start dates for Allison, Caterpillar, and Michelin are listed later in this Bulletin. Material and Workmanship Warranties start at hand off as evidenced by the user's hand receipt or property book and expire 24 months later. Ohio Casting warranty described in paragraph 6 starts at DD250 and expires 60 months later.
- ii. For Pass-Through, Material and Workmanship, or Ohio Casting Warranty, your local WARCO contacts TVS through their website (www.tvsonlinesupport.com) or calls 1-800-221-3688, asks for the Warranty Department, and provides the information in paragraph 3.b. TVS will obtain the warranty start date and notify the Government if the warranty period has expired.

4. Material and Workmanship Warranties.

a. Warranty Period. The warranty period for the Material and Workmanship Warranty is 24 months and begins with hand off to the unit as evidenced by the unit's hand receipt or property book.

b. Coverage. The Material and Workmanship Warranty covers the complete vehicle, parts and labor, excluding those items identified in paragraph

3.a. No warranty claims will be submitted for less than \$300.00 total value, contractor cost of parts and labor.

c. Procedure. The unit will submit a DA Form 2407 or DA Form 5504 to their local WARCO for submittal to TVS for warranty consideration. Upon claim approval, TVS will begin appropriate repair action as identified by the warranty claim.

5. Pass-Through Warranties. FMTV A1's serial numbers 100001 through 199999

Table 1. Supplier Summary Section

VENDOR	VENDOR PART NO	NSN	DESCRIPTION
Allison	ECB007AW		ECU
Allison	29538371	-	Shift Selector
Allison	12378396-009		Transmission, Hydraulic
Caterpillar	212-4284		Camshaft Assembly
Caterpillar	7E6794	2815-01-360-4450	Camshaft Followers
Caterpillar	12422551-001	-	Electronic Control Module
Caterpillar	209-2394	-	Engine, Diesel ¹
Caterpillar	222-5962		Fuel Injector
Caterpillar	229-9769	-	Intake Manifold Gasket
Caterpillar	192-0953	-	Turbo Compressor Housing
Caterpillar	223-9087	-	Turbo Turbine Housing
Caterpillar	224-4859	-	Turbocharger Cartridge
Michelin	12378858	2610-01-356-9098	Tire, Pneumatic

¹ Engine for Dressed Engine 12414398-005, NSN 2815-01-467-8471.

a. Allison

1. Warranty Period. The warranty start date is 90 days from the date indicated in Block 3 of the DD Form 250 and expires 24 months from that date, unless the vehicle is placed in service prior to the 90 days. When placed into service prior to the 90 days, then the actual in-service date becomes the warranty start date. It does not cover accident damage, misuse, alterations, or damage due to lack of maintenance, use of fluids not recommended, normal maintenance such as filters, screens, and fluids, repairs by unauthorized dealers, and use of other than Allison transmission parts. This warranty includes the transmission, ECU and shift selector.

2. Coverage. Repairs or replacement, at Allison's option, to correct any transmission malfunction resulting from defects in material and workmanship during the warranty period. All repairs will be performed using the method Allison determines most appropriate under the circumstances. Labor costs for the removal and reinstallation of the transmission are covered when necessary to make a repair. An authorized Allison Distributor must perform all warranty repairs.

3. Towing. Reasonable towing (i.e., motor pool to Dealer, hazard free area, etc.) to the nearest Allison Distributor or authorized Dealer is covered only when necessary to prevent further transmission damage. Field service is provided under this warranty. If the vehicle can be driven, at Allison's request, they may require the vehicle be delivered to the nearest authorized repair center within a reasonable amount of time. A reasonable amount of time must be allowed for the repair center to perform repairs.

4. Procedure. Unit will submit a DA Form 2407 or DA Form 5504 to their WARCO for submittal to TVS for warranty consideration.

b. Caterpillar

1. Warranty Period. The warranty period is 36 months or 150,000 miles and begins with

shipment of the vehicle from TVS. This is a worldwide warranty to U.S. military FMTV trucks. In addition, Caterpillar provides the 60 month, 100,000 mile emissions warranty for vehicles operating in the United States. Both warranties cover genuine Caterpillar components only; this is not a dressed engine warranty. Accident damage, misuse, alterations, or damage due to lack of maintenance, use of fluids not recommended, normal maintenance such as filters, screens, and fluids, repairs by unauthorized dealers, and use of other than Caterpillar engine parts are not covered by this warranty

2. Coverage. Repair or replacement, at Caterpillar's option, to correct any engine malfunction resulting from defects in material and workmanship during the warranty period. All repairs will be performed using the method Caterpillar determines most appropriate under the circumstances. Labor costs for the removal and reinstallation of the engine are covered when necessary to make a repair. An authorized Caterpillar Dealer must perform all warranty repairs. The engine must remain in the vehicle and historical ECM codes must be made available to Caterpillar.

3. Towing. The user must deliver the vehicle to the nearest Caterpillar Dealer. If the vehicle is not in driving condition, as determined by Caterpillar, Caterpillar will pay for reasonable towing (i.e., motor pool to Dealer, hazard free area, etc.) for the first 12 months of the warranty period.

4. Procedure. Unit will submit a DA Form 2407 or DA Form 5504 to their WARCO for submittal to TVS for warranty consideration.

5. Emissions Warranty Parts Covered. Camshaft Assembly, Electronic Control Module (ECM), Fuel Injectors, Intake Manifold Gasket, Turbocharger. (See Table 1. Supplier Summary Section for part numbers.)

c. Michelin

1. **Warranty Period.** The warranty is 5 years from the date of tire manufacture, or the life of the original usable tread down to 2/32nds of an inch of tread remaining. The date of manufacture is determined from the "DOT" number on the lower side above the bead. It will end in "X" and 4 numerics. The numerics represent the week and year of manufacture (i.e., "4804" = 48th week of 2004)
2. **Coverage.** The user must pay for the cost of a new tire on a pro-rata basis calculated by multiplying the current negotiated TACOM replacement price or the Government Open Market price, whichever is applicable, by the percentage of usable tread. This warranty does not include any mounting, balancing or other charges.
3. **Procedure.** Unit will submit a DA Form 2407 or DA Form 5504 to their WARCO for warranty consideration. During the first 2 years of vehicle warranty, the WARCO will address all claims to TVS under the Material and Workmanship Warranty. Upon expiration of the Material and Workmanship Warranty, the WARCO will address all claims to the Michelin Government Sales Department at webtruck@us.michelin.com.

6. **Ohio Casting Produced Parts (Vehicle S/N Range 100001 – 100050).** Warranty Period for Ohio Casting produced parts installed in above listed vehicles is sixty (60) months from DD250 date. Follow the instructions in paragraphs 3.b. to submit a claim for these components. When the contractor cost of the part and labor combined is \$300.00 or more total value, follow paragraph 4. Material and Workmanship Warranty. If the vehicle is outside of the Material and Workmanship Warranty, TVS will provide replacement material to complete Government repair. Part numbers applying to Light Medium Tactical Vehicles (LMTV) include:

Gov't P/N	NSN	Description
12414306	2590-01-443-2208	Bracket, Alt
12417307	2530-01-377-6617	Bracket, Steering
12417393	5340-01-371-1077	Plate, Spring Clamp
12417403	2510-01-377-3040	Frame Sect, Struct
12417407	2510-01-370-2726	Bracket Spring, Ft
12417411	2510-01-387-8469	Bracket, Stiffener

7. Contractor Responsibilities.

a. **Government Correction.** When the owning unit has elected to perform corrective action, the Contractor will ship all replacement parts required to affect correction within 3 calendar days of notification. If the Contractor is unable to meet the 3 calendar days, the repair site will be notified of any delay and the anticipated ship date. CONUS requirements, including Alaska and Hawaii, will be shipped to the repair location. OCONUS requirements will be shipped to a Government provided APO or CONUS Port of Embarkation. The Contractor shall reimburse the Government for the cost of labor involved in Government correction. Labor will be calculated at the current fiscal years labor rate for the maintenance level identified in the Maintenance Allocation Chart (MAC) multiplied by the actual number of labor hours incurred, not to exceed the labor hours in the MAC. The Government will notify the Contractor in writing via DA Form 2407 for the reimbursement required.

b. **Contractor Correction.** When the owning unit has directed the Contractor to correct the Supplies, the Contractor will furnish all material required to correct the defective supplies. The Contractor will complete repairs on site or at an approved repair facility, and will maintain an overall repair time equal to 5 calendar days or less from the notification date.

c. **Defective Parts.** The Contractor has the right to inspect parts found to be defective and will be allowed to take possession of failed parts following their replacement. All freight charges for the return of defective/failed parts are the responsibility of the Contractor.

8. **Government Responsibilities.** The Major Subordinate Command for the M1078A1 Series, 2-1/2 Ton, 4X4, Medium Tactical Vehicles (MTV) is the U.S. Army Tank-automotive and Armaments Command (TACOM), Warren, MI 48397-5000. TACOM is responsible for managing and implementing the warranty. Warranty claims will be reported to:

Commander
U.S. Army Tank-automotive and Armaments Command

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ATTN: AMSTA-AC-NML
Rock Island, IL 61299-7630
Email: tacom-tech-pubs@ria.army.mil
Fax: DSN 793-0726
Commercial: (309) 782-0726

a. TACOM will:

- a. Verify, review, process and if valid and complete, submit claims (reimbursable and /or disputes) to the Contractor.
- b. Reject claims that are not valid and send them back to the local WARCO with a short explanation of why the claim is rejected.
- c. Request additional information for incomplete claims.
- d. Provide warranty claim acknowledgement/closeout letters and/or parts/assemblies disposition instructions to the local WARCO.
- e. Ensure the Contractor performs in accordance with the terms of the contract.

b. Equipment owning unit will:

- a. Identify defects/failures and verify that the defects/failures are warrantable.
- b. Submit warranty claims, using DA Form 2407 and DA Form 2407-1 or DA Form 5504 Maintenance Request through channels to the supporting repair facility.
- c. Tag and retain, pieces of parts and/or assemblies removed at the owning unit level and as a result of a warrantable defect/failure and/or correction, in accordance with DA PAM 738-750 The Army Maintenance Management System (TAMMS) and this Technical Bulletin.

c. Supporting repair facility will:

- a. Identify defects/failures as warrantable (if owning unit has not already identified them). Verify defects/failures are warrantable.
- b. Review, process, and submit valid warranty claims to the local WARCO if the Maintenance Request is complete and correctly filled out.

c. Reject invalid warranty claims or request additional information for incomplete and incorrect claims.

d. Coordinate with the owning unit and decide which option for repair is desired to correct the warrantable defect/failure.

e. Depending upon which repair option was selected (Government or Contractor repair), provide labor and Contractor furnished parts to accomplish the warrantable repairs.

f. Tag and retain (in accordance with DA PAM 738-750 The Army Maintenance Management System (TAMMS) and this Technical Bulletin) all parts, pieces or parts and/or assemblies removed as a result of warrantable defect/failure and/or correction.

d. Local WARCO will:

a. Verify, administer, and process warranty claims to the TACOM WARCO (in accordance with DA PAM 738-750 The Army Maintenance Management System (TAMMS) and this Technical Bulletin).

b. Act as a liaison with the owning unit, the Contractor, supporting repair facility, and TACOM.

c. Notify the owning units of all warranty claim acknowledgements/closeouts, information and/or instructions received from TACOM or the Contractor.

d. Act as a liaison between local dealers and the Army.

e. Alterations/Modifications.

Alterations/modifications shall not be applied unless authorized by TACOM.

f. Lubrication and Service.

The manufacturer's lubrication and service intervals must be followed at all times.

9. Claim Procedures.

a. The procedures for reporting warranty claims are found in DA PAM 738-750 The Army Maintenance Management System (TAMMS)

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and this Technical Bulletin. Responsibilities of the Major Army Command (MACOM) are found in AR 700-139 Army Warranty Program, Concepts and Policies. Units should use DA Form 2407 or DA Form 5504 for making warranty claims. It is very important to fill in the blocks on the forms as accurately as possible.

b. The Contractor may be notified in writing via their website (www.tvsonlinesupport.com), electronic mail (warranty@armorholdings.com), or telephonically (1-800-221-3688), followed up in writing by DA Form 2407 or DA Form 5504 from the local WARCO following the discovery of a defect in supplies which requires Contractor/Vendor repair and/or replacement parts. This shall constitute formal notification of a warranty claim. The notification shall include all items identified in paragraph 3.b of this Technical Bulletin. At this time, the Contractor will further be informed whether the owning unit has elected: (1) to correct the defect themselves or; (2) to direct the Contractor to correct the defect. Upon completion of Contractor/Vendor repair, forward completed warranty claims (Information Only) to TACOM. Additionally, the local WARCO will forward claims to TACOM utilizing DA Form 2407 or DA Form 5504 for any warrantable repairs accomplished by the owning unit which requires Contractor reimbursement to the Government.

c. The Contractor shall reimburse the Government for the cost of labor involved in the Government correction of a defect. The cost of labor involved will be computed at the current Fiscal Years labor rate for the maintenance level identified in the Maintenance Allocation Chart (MAC) multiplied by the number of actual hours incurred, not to exceed the labor hours in the MAC. The Contractor shall ship replacement parts for Government correction in accordance with paragraph 7.a.

d. Identification of Failed Items. Failed warranty items shall be tagged/identified to prevent improper repair or use and must identify the vehicle number and mileage from the vehicle which they were removed. Documents that describe the use of DA Form 2402 Exchange Tag and DA Form 2407 Maintenance Request shall be referenced. Items requiring special handling, storage or shipment during the processing of claims shall be identified.

e. Disposition. The repair activity shall return defective supplies to the Contractor's representative or ship them back at the Contractor's expense using the replacement part carton/container.

f. Invalid Warranty Claims. When supplies are inspected by the Contractor/Vendor and found to be non-warrantable, or the supplies are found to be serviceable, the repair activity submitting the claim will be required to make reimbursement for Contractor/Vendor services. Additionally, regarding Contractor/Vendor repair, the local WARCO must stipulate at the time of request for services that either non-warranty work be stopped at the time it is determined non-warrantable or be prepared to pay for completion of such work. In either case, the WARCO must be prepared to pay for diagnosis and trip charges for non-warranty service.

g. Air Force Warranty Claims. Air Force warranty claims shall be submitted as follows:

(1) For letter warranty claims:

WR-ALC/LVR
225 Ocmulgee Ct
Robbins AFB, GA 31098-1647
DSN 468-7161
COML (912) 926-7126

(2) For teletype warranty claims:

WR-ALC ROBBINS AFB GS/LVR

10. Reimbursement for Army Repair. The Contractor shall remit payment by the fifteenth (15) day of the month for all warrantable claims by the Government for reimbursement which were received by the Contractor in the previous month. Payment shall be sent to the PM, MTV, Attn: Business Management Office, with checks made payable to "The Treasurer of the United States". In the event that the repair activity should receive any reimbursement from the Contractor, the monies must be forwarded to the PM, MTV.

11. Claim Denials/Disputes. TACOM will handle all denials or disputes.

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12. Reporting. Reporting or recording action on a failed item shall be as specified in DA PAM 738-750 The Army Maintenance Management System (TAMMS). Forms that are unique to the Contractor or Repair Activity shall not be used.

13. Storage/Shipment/Handling.

a. Storage. See paragraphs 2.c, 3.a, 3.c, 5.a and TM Care and Storage Requirements for the Vehicle, Refer to TM 9-2320-391-20..

b. Shipment. See paragraphs 3.a, 7.a, 7.c, 8.b, 8.c, 9.d, and 9.e.

c. Handling. See paragraphs 3.a, 7.a, 7.c, 8.b, 8.c, 9.d, and 9.e.

By Order of the Secretary of the Army:

Official:



JOYCE E. MORROW
*Administrative Assistant to the
Secretary of the Army*
0630605

PETER J. SCHOOMAKER
*General, United States Army
Chief of Staff*

By Order of the Secretary of the Air Force:

MICHAEL T. MOSELEY
*General, United States Air Force
Chief of Staff*

Official:

GREGORY S. MARTIN
*General, United States Air Force
Commander, Air Force Materiel Command*

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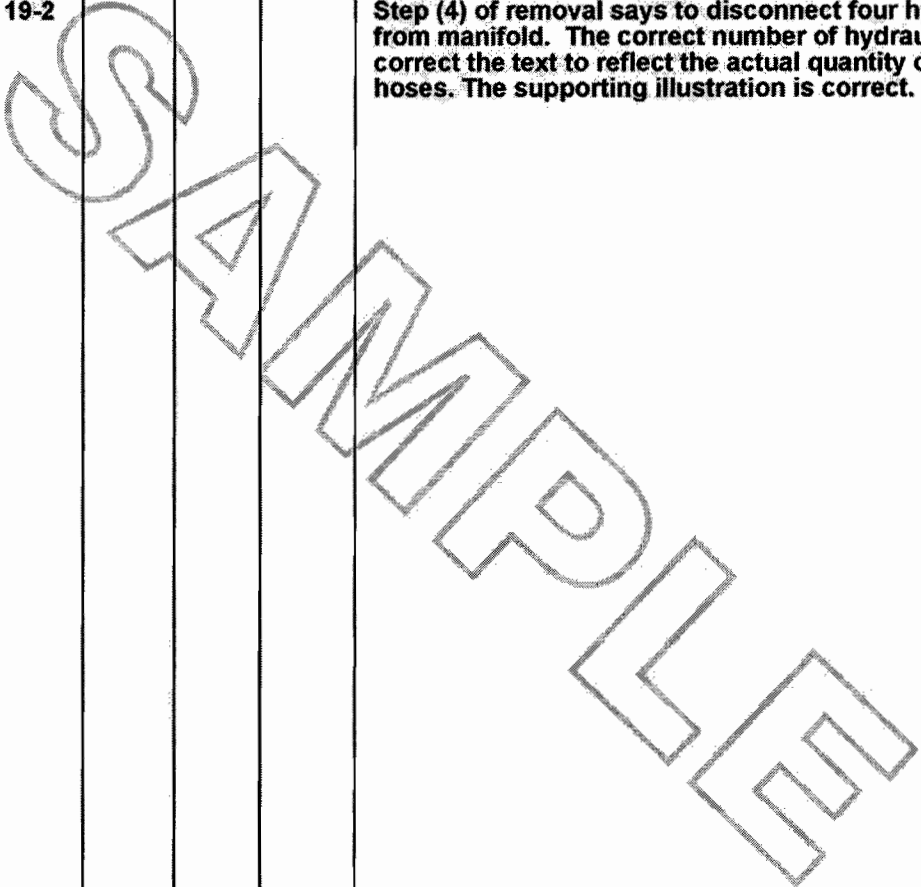
RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is OAASA	Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE Date you filled out this form
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PART I - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS

PUBLICATION/FORM NUMBER	DATE Publication Date	TITLE Publication Title
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ITEM	PAGE	PARA-GRAPH	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON
10	15-33	15-7		4		<p>Item 10. Change illustration. Reason: Text calls out 90-degree fitting. Art shows straight fitting. Text is correct.</p> <p>Step (4) of removal says to disconnect four hydraulic hoses from manifold. The correct number of hydraulic hoses is five. correct the text to reflect the actual quantity of hydraulic hoses. The supporting illustration is correct.</p>
	19-6	19-2				



* Reference to line numbers within the paragraph or subparagraph.

TYPED NAME, GRADE OR TITLE Your title	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION Your telephone number	SIGNATURE Your signature
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TO: <i>(Forward direct to addressee listed in publication)</i>	FROM: <i>(Activity and location) (Include ZIP Code)</i>	DATE
Enter your mailing address		Date you filled out this form.

PART II - REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER			DATE	TITLE				
			Publication Date	Your Title				
PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

PART III - REMARKS *(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)*

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
Your title	Your telephone number	Your signature

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS						Use Part II (<i>reverse</i>) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
For use of this form, see AR 25-30; the proponent agency is OAASA							
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PART I - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER						DATE	TITLE
ITEM	PAGE	PARA-GRAPH	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON	
<i>* Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE					TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE

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PART II - REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER			DATE		TITLE			
PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

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RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS						Use Part II (<i>reverse</i>) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
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PUBLICATION/FORM NUMBER						DATE	TITLE
ITEM	PAGE	PARA- GRAPH	LINE	FIGURE NO.	TABLE	RECOMMENDED CHANGES AND REASON	
<i>* Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE	

TO: <i>(Forward direct to addressee listed in publication)</i>	FROM: <i>(Activity and location) (Include ZIP Code)</i>	DATE
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PART II - REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER			DATE		TITLE			
PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

PART III - REMARKS *(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)*

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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