

TECHNICAL BULLETIN

**WARRANTY PROCEDURES
FOR**

**TRUCK, FIREFIGHTING, 1000 GPM
MULTIPURPOSE, MODEL 2500L**

**CONTRACT NO. DAAJ10-84-C-A239
NSN: 4210-01-193-3621**

This copy is a reprint which includes
current pages from Change 1.

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CHANGE }
NO. 1 }

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 20 February 1990

Technical Bulletin

**WARRANTY PROCEDURES
FOR
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TB 5-4210-220-24, 14 March 1988, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages

Insert pages

15 and 16

15 and 16

2. Retain this sheet in front of manual for reference purposes.

By Order of the Secretary of the Army:

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Chief of Staff

Official:

WILLIAM J. MEEHAN, II
Brigadier General, United States Army
The Adjutant General

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 14 March 1988

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistake or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Troop Support Command, ATTN: AMSTR-MCTS, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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SECTION I

GENERAL

1-1. GENERAL. The purpose of this technical bulletin is to outline the procedures for identifying warranted items/components of the Military Adapted Commercial Item (MACI) fire truck being procured from Canadian Commercial Corporation, (AMERTECH); Hull, Quebec, Canada.

1-2. EXPLANATION OF TERMS. Not applicable to this bulletin.

1-3. COVERAGE: The contractor, Canadian Commercial (AMERTECK) guarantees the MACI fire truck, and each component thereof, to be free of defects in materials and workmanship for a period of twelve (12) months from the time of acceptance as shown on the Material Inspection and Receiving Report (DD Form 250).

1-4. EXCEPTIONS TO WARRANTY. The warranty does not apply to repair or replacement required to restore the unit to operation in the following instances:

- a. Expendable items such as filters, light bulbs, belts, lubricants, fluids and items replaceable due to normal service requirements.
- b. Combat damage and liability for loss, damage or injury to third parties or consequential damages.

SECTION II**RESPONSIBILITIES****2-1. CONTRACTOR RESPONSIBILITIES.**

a. The contractor shall promptly repair or replace such parts as are necessary to achieve the specified performance requirements and the contractor shall bear the cost.

b. If the contractor fails to repair or replace such parts promptly, as determined by the contracting officer, the contractor shall pay costs incurred by the Government in procuring such parts from another source and in accomplishing the repair. Refer to paragraph 1-3 for warranty coverage.

c. On fire trucks used within the 50 states of the United States and the District of Columbia, the guarantee shall include the furnishing, without cost to the Government, Freight on Board to the original destination, of new items to replace any that prove to be defective within the warranty period. The cost of the labor involved in the replacement of the defective items at the contractor's plant, branch or dealer, facility shall be borne by the contractor. The contractor shall furnish during the first 90 days of the warranty period, a technical service representative to supervise and assist in replacing and adjustment of the failed items effected in any unresolved type warranty action. After 90 days the Government shall reimburse the contractor for travel and per diem expenses to and from the activity when a technical service representative is required for resolution of problems during the warranty period and thereafter. Response by the contractor shall be immediately after Government notification of this desired service.

d. On fire trucks used outside the 50 states of the United States and outside the District of Columbia, the guarantee shall include the furnishing of new items to replace defective ones. Return of defective items to the contractor shall be at the option and at the expense of the contractor. The replacement item(s) shall be delivered by the contractor to the Port of Embarkation in the United States designated by the Government.

e. The contractor shall not be required to bear the cost of the labor involved in correcting defects in fire trucks used outside the 50 states and outside the District of Columbia provided the contractor does not have established business facilities servicing the geographic area of concern. Replacement item(s) directed outside the 50 states and outside the District of Columbia shall be accompanied by detailed installation instructions.

2-2. TRANSPORTATION.

a. On Items used within the 50 states of the United States and the District of Columbia, the guarantee shall include the furnishing, without cost to the Government, Freight on Board (FOB) to the original destination, of new items to replace any that prove defective within the warranty period.

b. On items used outside the 50 states of the United States and District of Columbia, the guarantee shall include the furnishing of new items to replace defective ones. Return the defective items to the contractor shall be at the option and expense of the contractor. The replacement item(s) shall be delivered by the contractor to the Port of Embarkation in the United States designated by the Government.

c. When replacement requires transportation of the defective item(s), shipping costs not to exceed usual commercial method of shipment from delivery point to contractors plant and return shall be borne by the contractor.

d. When component items are shipped back to the contractor for warranty work, they should be packaged in such a manner as to prevent shipping damage. Proper containers and packaging materials shall be used.

2-3. GOVERNMENT RESPONSIBILITIES. Using Units are responsible for reporting failure to U.S. Army Troop Support Command, 4300 Goodfellow Blvd., ATTN: AMSTR-QE, St. Louis, MO 63120-1798, AUTOVON 693-9457, CMCL (314) 263-9457.

SECTION III**FORMS AND PROCEDURES**

3-1. CLAIMS. Warranty claims from using field units are to be forwarded to the TROSCOM Warranty Control Office (WARCO) AMSTR-Q, which will initiate Warranty Claim Actions for warranted items, and Quality Deficiency Reporting actions for systematic failures in accordance with DA PAM 738-750. See Appendix A for other WARCO offices and addresses.

3-2. NOTIFICATION OF FAILURES. The contractor must be notified by the Government in writing of any failure of the fire truck or component thereof that is covered under this warranty within 30 days after verification of the failure by an intermediate maintenance facility.

3-3. GOVERNMENT MAINTENANCE. Using units are allowed to perform troubleshooting, preventive maintenance and replacement of defective components as authorized by the Maintenance Allocation Chart.

3-4. ALTERATIONS. Alterations and/or modifications shall not be made to this equipment unless authorized by USATROSCOM.

3-5. NULLIFICATION. Failure to perform operation and maintenance in accordance with the applicable technical manuals and maintenance allocation chart may be cause for nullification of the warranty.

3-6. REPORTING. Reporting or recording action in a failure items shall be specified in DA PAM 738-750.

3-7. FORMS. DA Forms 2407 and 2402 are used by the field in reporting warranty claim actions (WCA's). The purpose of these forms are for the Seller to repair or replace any defective part so the equipment can be returned to an operational readiness mode.

3-8. GOVERNING OF WCA'S.

a. WCA's can be started by any maintenance level.

b. Selecting exhibits. A component, part or assembly under warranty that is defective due to design or workmanship becomes a warranty claim exhibit. All exhibits will carry a DA Form 2402 marked "Warranty Exhibit."

c. Local commands will set up an office to handle local warranty claims. The office will also deal with warranty actions between its activities, the local dealer or manufacturer, and the National Maintenance Point (NMP). Report warranties settled locally by printing "For Information Only" in Block 16a of the DA Form 2407.

d. Non-direct exchange (non-DX) claim items. When the warranted item is not handled through DX, the unit prepares and sends a completed DA Form 2402 (with exhibit) and DA Form 2407 to the warranty claims office. The office then deals with the DA Form 2407 as follows:

(1) Send copy #1, #2, and #5 to: CDR, TROSCOM, ATTN: AMSTR-Q, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. One of these copies will go to the item manager to show a supply demand.

(2) Keep copy #3 for 180 days (with exhibit and DA Form 2402), unless you are told differently. If you receive no instructions after 90 days, contact: CDR, TROSCOM, ATTN: AMSTR-Q, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798, telephone number, 314-263-9457 for information.

(3) Copy #4 gives you the authority to tell the claim creator to get the new item through supply. Copy #4 is kept, at most, for 180 days or until you get notice that the claim has been honored.

e. Direct exchange (DX) claim items. When the warranted item is handled through DX, the unit starting the claim action fills out the same forms and deals with them the way they do for a non-DX item except as follows:

(1) The unit running the DX shop starts the replacement action for supported units. The DX shop uses Copy #4 of the DA Form 2407 to start the action.

(2) Normal DX replacement actions will be made by the DX shop for like serviceable items in stock.

3-9. DA FORM 2407. The following are instructions on completing DA Form 2407 by block number and title heading:

MAINTENANCE REQUEST <small>For use of this form, see TM 38 780 the proponent agency is DCSLOG</small>		PAGE NO	NO. OF PAGES	REQUIREMENT CONTROL SYMBOL <small>REG. NO. CSGLD-1047(R.1)</small>	
SECTION I - EQUIPMENT DATA					
CONTROL NUMBER L08610	WORK ORDER NUMBER	WESOC	ORG PD	PD AUTHENTICATION	
<input type="checkbox"/> WORK REQUEST <input type="checkbox"/> MWO <input type="checkbox"/> WARRANTY CLAIM	1a ORGANIZATION	1b LOCATION		1c UNIT IDENT CODE	
2 SERIAL NO	3 NOUN NOMENCLATURE	4 LINE NO	5 MODEL	6 NATIONAL STOCK NUMBER	

Page No/No of Pages Enter the page number. Total pages will be entered when entries in Section II are complete.

Work Order Number Leave blank.

WESOC Leave blank.

ORG PO Leave blank.

PO Authentication Leave blank.

Work Request Leave blank.

MWO Leave blank.

Warranty Mark this block.

1a ORGANIZATION Enter location of organization sending in the report.

1b LOCATION Enter name of organization writing the request [overseas list APO only].

1c UNIT IDENT CODE Enter unit identification code (IUC) of the unit shown in block 1a.

2. SERIAL NO

- a. For nontactical wheeled vehicles, list the USA registration number.
- b. For ammunition, put in the lot number.
- c. For all other items, list the serial number, if known. For floating craft, list the Department of Army Hull number. If more than one serial number, leave blank.
- d. When using this Form for more than one item or component, leave blank.

3. NOUN NOMENCLATURE Put in name abbreviation of equipment for which the form was started.

4. LINE NO Leave blank.

5. Model Put in the item model number.

6. National Stock Number Put in the National Stock Number of equipment in block 3. When completing this form for many items having several NSNs, leave blank.

7. MAINTENANCE ACTIVITY	8. LEVEL	9. UTILIZATION CODE	10. MCSR ITEM	11. ERC	12. PACING ITEM	13. HOURS	14. MILES	15. ROUNDS	16. STARTS
14. FAILURE DETECTED DURING (Select one - use ✓ or X)					15. FIRST INDICATION OF TROUBLE (Select one - use ✓ or X)				
<input type="checkbox"/> A Scheduled Maintenance	<input type="checkbox"/> C Test	<input type="checkbox"/> E Storage	<input type="checkbox"/> G Flight	<input type="checkbox"/> 008 Inoperative	<input type="checkbox"/> 25B Overheating	<input type="checkbox"/> 790 Out of Adjustment			
<input type="checkbox"/> B Handling	<input type="checkbox"/> D Normal Op	<input type="checkbox"/> F Inspection	<input type="checkbox"/> H Other	<input type="checkbox"/> 008 Noisy	<input type="checkbox"/> 387 Low Performance	<input type="checkbox"/> Other			
16. DESCRIBE DEFICIENCIES OR SYMPTOMS ON THE BASIS OF COMPLETE CHECKOUT AND DIAGNOSTIC PROCEDURE IN EQUIPMENT TM (Do not prescribe repairs)									
16a. REMARKS									

7. **Maintenance Activity** Put in the name of your support activity.

- a. **Level** Put in the code of the maintenance level doing the maintenance.
- O Organizational (ORG)
 - F Direct Support (DS)
 - H General Support IGS)
 - O Depot
 - L Special Repair Activity

8. **Utilization Code** For nontactical wheeled vehicles in administrative use, use utilization code "V."

9. **MCSR Item** Leave blank.

9a. **ERC** Leave blank.

9b. **Pacing Item** Leave blank.

10. **Hours** Put in the hour reading (rounded to the nearest hour) from the hour meter on the equipment in block 3.

11. **Miles** Put in the mileage (rounded to the nearest mile) of the equipment in block 3.

12. **Rounds** Leave blank.

13. **Starts** For turbine engines. put in the number of hot starts. If not needed. leave blank.

14. **Failure Detected During** Mark the box that best describes when the failure was Found.

15. **FIRST INDICATION OF TROUBLE** Mark the box that best describes the conditions when you first found the trouble. Write in a code number from the table below. Leave blank if block 14 is left blank or when listing sampled items for unit maintenance.

Code	Description
008	Noisy
068	Inoperative
25B	Overheating
387	Low performance
790	Out of adjustment
*360	Intermittent
*432	Off frequency
*B0C	Unstable
*077	Accident [motor vehicle)
*777	Mid-service life
*099	Other

*The asterisk shows code numbers not listed in block 15, DA Form 2407. If you select one of these codes. the proper code number must be put in the space called "Other," block 15.

16 & 16a Leave blank.

SECTION II - WORK ACCOMPLISHED									
17a. REPAIR ORGANIZATION/ACTIVITY		c. UNIT IDENT CODE			18. TYPE ORGANIZATION/ACTIVITY AC. COMPLETING WORK (Select one - Use ✓ or X)			18. AMS ACCOUNT CODE	
b. LOCATION					<input type="checkbox"/> 1 TOE <input type="checkbox"/> 2 TD <input type="checkbox"/> 3 CONTRACTOR				
20a. ACT CODE	FAILURE CODE b	c. COMPONENT/PART NOUN, SVC. OR MNO NO.		MANHOURS (Pr & Mths)	NATIONAL STOCK NUMBER h	PART SOURCE CODE i	QTY j	PARTS COST k	
		d. CB CODE	e. REF DESIGNATOR	f. MFR CODE					
				l. TOTAL MANHOURS	m. TOTAL MANHOURS COST	n. TOTAL PARTS COST			
21. DELAY (Select one) <input type="checkbox"/> 1 Parts <input type="checkbox"/> 2 Manpower <input type="checkbox"/> 3 Facilities <input type="checkbox"/> 4 Funds <input type="checkbox"/> 5 Tools					22. DATA TRANSCRIBED				
23. SUBMITTED BY		24. RECEIVED BY		25. WORK STARTED BY		26. INSPECTED BY		27. ACCEPTED BY	
JULIAN DATE		JULIAN DATE		JULIAN DATE		JULIAN DATE		JULIAN DATE	
					28. DISPOSITION (Select one)				
					<input type="checkbox"/> A To User <input type="checkbox"/> C Salvaged <input type="checkbox"/> B To Stock <input type="checkbox"/> D Excessed <input type="checkbox"/> E Cannibalization				

DA FORM 2407 MAY 67 EDITION OF JUL 78 IS OBSOLETE. ORGANIZATION COPY 4

17a thru 19 Leave blank.

20d. **CB CODE** Put in the name of the part or assembly under warranty.

20e. **REF DESIGNATOR** Put in the serial number of the part or assembly under warranty.

20g. Put in the estimated number of hours needed to replace the bad part. Use the proper technical bulletin time schedule guide to get the estimated hours. If you can't get the guide. use actual hours.

20h. **NATIONAL STOCK NUMBER** Put in the NSN of the bad part. If an NSN is not found, use the part number.

20i. j. k. Leave blank.

20a thru 20k Using the remaining spaces in block 20a-20k. put in this information:

The NSN of the defective item.

The name of the defective item.

The date of the failure.

The complete telephone number [AUTOVON/commercial with area code) of the person creating the form. State clearly all factors which added to the failure. Include factors such as type of operation and land and weather conditions. State clearly your opinion as to why the part failed.

20l **Total Manhours** Self explained.

20m **Total Manhour Cost** Leave blank.

20n **Total Parts Cost** Self-explained.

21 thru 22 Leave blank.

23 **Submitted** The person authorized to send DA Form 2407 signs here

24 thru 28 Leave blank.

3-10. DA Form 2402. The following are instructions on completing DA Form 2402 by block number and title:



1. SUPPORT AGENCY (DODAAC)		2. DATE		COPY 1
3. ORGANIZATION (DODAAC)		4. <input type="checkbox"/> EIR EXHIBIT <input type="checkbox"/> EXCHANGE		
5. NSN		6. NOUN NOMENCLATURE		
7. PD	8. PD AUTHENTICATION			
END ITEM IDENTIFICATION	9. END ITEM NOUN NOMENCLATURE			
	10. MODEL	11. SERIAL NO.		
12. DEFICIENCY OR SYMPTOM				
13. DATE ACCEPTED	14. SIGNATURE		15. NMCS	
16. JON		17. INITIALS		
18. DATE REPAIRED		19. INITIALS		

EXCHANGE TAG (TM 38-760)

DA FORM 2402
MAY 81

1. **SUPPORT AGENCY (DODAAC)** Enter the DODAAC of the support activity that will exchange the item for you. When this form is used for other than exchanges, use the DODAAC or UIC.
2. **DATE** Enter the Julian date the item was prepared for exchange.
3. **ORGANIZATION (DODAAC)** Enter the DODAAC of the unit or organization needing to exchange the item. When this Form is used for other exchanges, use the DODAAC or UIC.
4. **EIR EXHIBIT/EXCHANGE** Mark the block to show an exchange or EIR exhibit. When used for warranty claims, put a "W" in the open space to the right of EIR EXHIBIT.
5. **NSN** Enter the NSN of the item.
6. **NOUN NOMENCLATURE** Print the noun abbreviation of the item to be exchanged.
7. **PD** Enter the priority designator (PD) that applies to the action. The unit or organization listed in Block 3 normally assigns the PD. When the exchange supports a customer maintenance request, use the PO of the maintenance request.

8. PD AUTHENTICATION

a. The commander or the designated representative signs when a PD of 01 through 10 is in Block 7.

b. Enter the job order number when a PO of 01 through 10 is taken from a maintenance request.

9. END ITEM NOMENCLATURE Enter the noun abbreviation of the end item for the part or component in Block 6.

10. MODEL Enter the model number of the end item.

11. SERIAL NO. Enter the serial number of the end item.

12. DEFICIENCY OR SYMPTOM Briefly describe the problem.

13. DATE ACCEPTED When the Form is used as a receipt, the exchange facility will enter the Julian date.

14. SIGNATURE The person who receives the item for exchange signs.

15. NMCS Print the word "Yes" for an NMCS condition.

16. JON The facility that will repair the item enters the job order number.

17. INITIALS The person receiving the item for repair initials in this block.

18. DATE REPAIRED The person doing the work enters the date the work was finished.

19. INITIALS The person doing the work initials in this block.

**SECTION IV
STORAGE AND SHIPMENT**

4-1. STORAGE. Storage of the equipment or its components shall be as prescribed in TM5-4210-220-12 and TM 5-4210-220-34.

4-2. SHIPMENT. Instructions for shipment of components will be provided by the TROSCOM Warranty Control Officer. Refer to Appendix A.

APPENDIX A

TROSCOM WARRANTY CONTROL OFFICES (WARCO's)

Command	Location/Station	Address	Phone AV/COMM
TROSCOM	HEADQUARTERS	Cdr, TROSCOM ATTN: AMSTR-Q 4300 Goodfellow Blvd. St. Louis, MO 63120-1798	693-3478
USAREUR	Belgium, Chivres	Cdr, 47th Area Spt Group ATTN: AERUK-Q APO NY 09075	243-1274
USAREUR	GE, ANSBACH	Crdr, 1st AD ATTN: AETS-KGD-M APO NY 09326	ETS 468-8467
USAREUR	GE, BAD KREUZNACH	Cdr, 8th DMMC ATTN: AETH-MC APO NY 09111	ETS 490-7181/7148
USAREUR	GE, BERLIN	Cdr, USA Berlin ATTN: AEBA-MA-O APO NY 09742	ETS 332-3249/3189
USAREUR	GE, BREMERHAVEN	Cdr, 543D Area Support Gp ATTN: AERB-GM APO NY 09069	ETS 342-8285/8588
USAREUR	GE, CHIVRES BERLIN	Cdr, 80th Area Support Gp ATTN: AERSH-LM APO NY 09088	ETS 361-5454
USAREUR	GE, DARMSTADT	Cdr, 32D AADCOM ATTN: AETL-GD-CM APO NY 09175	ETS 348-6532/7186
USAREUR	GE, FRANKFURT	Cdr, 3D DMMC (3d AD) ATTN: AETFOE-MMO-MAT APO NY 09039	ETS 328-7221/8281
USAREUR	GE, FRANKFURT	Cdr, V Corps ATTN: AETV-GDM-M APO NY 09079	ETS 320-6062/5773

APPENDIX A (Continued)

TROSCOM WARRANTY CONTROL OFFICES (WARCO's)

Command	Location/Station	Address	Phone AV/COMM
USAREUR	GE, FULDA	Cdr, 11th ACR ATTN: AETO-CSS-MMC APO NY 09146	ETS 321-3679/3779
USAREUR	GE, GARLSTEDT	Cdr, 2D Armd Div (FWD) ATTN: AEUAD-498-MAT APO NY 09355	ETS 342-6730-6728
USAREUR	GE, GOEPPINGEN	Cdr, 1st Inf Div Fwd ATTN: AETSGSB-MM-MMD APO NY 09137	ETS 425-3637/3753
USAREUR	GE, GRAFENWOEHR	Cdr, 7th ATC ATTN: AETT-DOL-SM-E APO NY 09114	ETS 476-2567/2767
USAREUR	GE, GRAFENWOEHR	Chief, M1 Mat Fielding Team ATTN: AMCPM-GCM-MFT-E APO NY 09114	ETS 476-2757/2612
USAREUR	GE, HEIDELBERG	Cdr, 7th MEDCOM ATTN: AEMLO-L APO NY 09102-3304	ETS 370-2718/2719
USAREUR	GE, HEIDELBERG	Cdr, 26th Spt Gp ATTN: AEUSG-LG-M APO NY 09102-0161	ETS 370-8319/6478
USAREUR	GE, KAEFERTAL	Cdr, 51st Maint Bn ATTN: AERAB-MO APO NY 09086	ETS 380-6773/7416
USAREUR	GE, KAISERSLAUTERN	Cdr, 9th Spt Ctr ATTN: AERLM-LS APO NY 09325-3704	ETS 483-7561/8625
USAREUR	GE KAISERSLAUTERN	Cdr, 29th Area Support Gp ATTN: AERAS-MM APO NY 09054	ETS 483-7347/8235
USAREUR	GE, KAISERSLAUTERN	Cdr, HHD 66th Maint Bn ATTN: AERAS-W-D APO NY 09227	ETS 489-6636/6676

APPENDIX A (Continued)

TROSCOM WARRANTY CONTROL OFFICES (WARCO's)

Command	Location/Station	Address	Phone AV/COMM
USAREUR	GE, KARLSRUHE	Cdr, 18th Eng Bde ATTN: AEUEG-S APO NY 09164-2934	ETS 376-6069/7102
USAREUR	GE, MANNHEIM	Cdr, CBT Equip Gp Europe ATTN: AERSE-M-SMO APO NY 09166-3768	ETS 380-7686/6285
USAREUR	GE, MOEHRINGEN	Cdr, VII Corps ATTN: AETS-GD-MR APO NY 09107	ETA 421-2622/2382
USAREUR	GE, MUNICH	Cdr, 66th MI GP ATTN: IAGPE-LO-MM APO NY 09108-4827	ETS 440-7306/6433
USAREUR	GE, NELLINGEN	Cdr, 800th CMMCS ATTN: AETS-SC-CMMC-OP APO NY 09061	ETS 421-6500/6372
USAREUR	GE, NELLINGEN	Cdr, 2d SUPCOM Corps ATTN: AETS-SC-GE-TAAEM APO NY 09160	ETS 421-6385
USAREUR	GE, NEU ULM	Cdr, 55th Maint Bn ATTN: AEUATS-MMC APO NY 09035	ETS 427-6189/7193
USAREUR	GE, NUERNBERG	Cdr, 2d ACR ATTN: AETSAC-AL-RMO APO NY 09093	ETS 460-5757/5805
USAREUR	GE, OBERURSEL	Cdr, 4th TRANSCOM ATTN: AEUTR-SVC-M APO NY 09451-4006	ETS 325-2743/2808
USAREUR	GE, PIRMASENS	Cdr, 59th Ord Bn ATTN: AEUSA-DMM APO NY 09189	ETS 495-7216/7276
USAREUR	GE, RHEINBERG	Cdr, 7th SUPCOM ATTN: AERSC-LM APO NY 09712	Comm 02843_70757
USAREUR	GE, RHEINBERG	Cdr, 54 Area Support GP ATTN: AERV-L APO NY 09712	Comm 02843-70674

APPENDIX A (Continued)

TROSCOM WARRANTY CONTROL OFFICES (WARCO's)

Command	Location/Station	Address	Phone AV/COMM
USAREUR	GE, SANDHOFEN	Cdr, 70th TRANS BN ATTN: AERSS-S APO NY 09028	ETS 382-6110/7236
USAREUR	GE, SECKENHEIM	Cdr, HQ AMC Europe ATTN: AMXEU-CQ APO NY 09333	380-6222 Comm 0621-478791
USAREUR	GE, WIESBADEN	Cdr, 19th Support Center ATTN: AETV-SCM-PF APO NY 09757-5000	ETS 337-5851/5377
USAREUR	GE, WUERZBERG	Cdr, 3d ID ATTN: AETSBGD-MR APO NY 09036	ETS 350-7188/6226
USAREUR	GE, WUERZBERG	Cdr, 3d ID ATTN: AETSBSC-DM-(WARCO) APO NY 09701	ETS 355-2603/2782
USAREUR	GE, ZWEIBRUECKEN	Cdr, 60th Ord Gp ATTN: AEROD-LM APO NY 09052-3818	ETS 494-6275/7398
USAREUR	GE, ZWEIBRUECKEN	Cdr, 200th TAMMC ATTN: AEAGD-MMC-RL-W APO NY 09052-5356	ETS 494-6568/8268
USAREUR	IT, LIVORNO	Cdr, 201st MMC (USASETAF) ATTN: AESE-MMX-M APO NY 09019	ETS 633-7002/7087
USARJ	JAPAN, ZAMA	Cdr, USA Garrison Honshu ATTN: AJGH-ID-MS-Q APO San Francisco 96343-0071	228-4194
EUSA	KOREA, SEOUL	Cdr, 8th US Army ATTN: DJ-M-S-M APO San Francisco 96301-0009	315-223-6361/3885
WESTCOM	FT. SHAFTER	Cdr, USASCH ATTN: APZV-DLM Ft. Shafter, HI 96858	438-1410
See also:	DA PAM 738-750, <u>MAINTENANCE MANAGEMENT UPDATE</u> , Issue Number 11, Table J-I		

**APPENDIX B
REFERENCES**

DA PAM 738-750
DA FORM 2407
DA FORM 2402
DA FORM 2408-9
Maintenance Management Update

The Army Maintenance Management System (TAMMS)
Maintenance Request
Exchange Tag
Acceptance Report
Issue Number 9, table J-1

By order of the Secretary of the Army:

Official:

R. L. DILWORTH
Brigadier General, United States Army
The Adjutant General

CARL E. VUONO
General, United States Army
Chief of Staff

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CAREFULLY TEAR IT OUT, FOLD IT
AND DROP IT IN THE MAIL.

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FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

PUBLICATION DATE

PUBLICATION TITLE

BE EXACT PIN-POINT WHERE IT IS

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FIGURE
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TABLE
NO.

IN THIS SPACE, TELL WHAT IS WRONG
AND WHAT SHOULD BE DONE ABOUT IT.

PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigrams = .035 ounce
 1 decagram = 10 grams = .35 ounce
 1 hectogram = 10 decagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 33.81 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	To	Multiply by	To change	To	Multiply by
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
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