

**DEPARTMENT OF THE ARMY TECHNICAL BULLETIN**

**WARRANTY PROGRAM  
FOR  
ELECTRICAL EQUIPMENT SHELTERS**

**MODEL S-250/G UNSHIELDED  
NSN: 5411-00-999-4935**

**A N D**

**MODEL S-250/G SHIELDED  
NSN: 5411-00-489-6076**

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**HEADQUARTERS, DEPARTMENT OF THE ARMY**

31 JANUARY 1990



# DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

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## WARRANTY PROGRAM

### FOR

### ELECTRICAL EQUIPMENT SHELTER

### MODEL S-250/G UNSHIELDED AND S-250/G SHIELDED

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Headquarters, Department of the Army, Washington, DC

31 January 1990

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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 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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**1. GENERAL.** This Warranty Technical Bulletin (WTB) describes the manufacturers warranty for the S-250/G Electrical Equipment Shelters. Gichner Shelter Systems warrants each shelter against defects in material or workmanship.

**2. EXPLANATION OF TERMS.** The following terms, applicable to this WTB, are explained to help the reader understand the application and extent of the warranty.

**a. Abuse.** The improper use, repair, or handling of warranted items such that the warranty may become void.

**b. 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 approved acceptance document, by an authorized representative of the Government.

**c. Acquiring command or activity.** An activity which procures the items or materiel for a user.

**d. Alterations/Modifications.** Any alteration after production such as retrofit, conversion, remanufacture, design change, engineering change and the like.

**e. Contractor support.** Those services that are to be performed and those responsibilities that are placed upon the contractor by the government as specified in the warranty contract/provisions. This support, which may include such things as labor, parts, tools, training technical packages, etc., will be used in support of the warranted equipment during the specified warranty period.

**f. Defect.** Any condition or characteristic in any supplies or services furnished by the contractor under the contract that is not in

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compliance with the requirements of the contract.

**g. Failed item.** A part, component, or end item that fails to perform its intended use.

**h. False return rate.** The return of suspected defective warranty items to the manufacturer that are eventually determined to be serviceable.

**i. Manufacturer's recall.**

(1) Safety recall. A manufacturer recalls an item to repair or replace a defective part or assembly which may affect public safety.

(2) Service recall. A manufacturer recalls an item to repair or replace a defective part or assembly which does not affect the safe use of the item.

**j. Primary damage.** The damage suffered by a part, component, or end item itself upon its failure.

**k. Prime contractor.** A party that enters into an agreement directly with the United States to furnish part or all of a system.

**l. Reimbursement.** A written provision in a warranty contract whereby the user may make the necessary repairs, with or without prior approval of the contractor, and the Government will be reimbursed for the repair parts and/or labor costs.

**m. Repair.** To restore an item to serviceable condition without affecting the warranty.

**n. Repairable.** An item that may be reconditioned or economically repaired for reuse when it becomes unserviceable.

**o. Secondary damage.** The damage suffered by an item because of a failure of another item within the same configuration.

**p. Serviceable.** The condition of an item which may be new or used that meets all the requirements and performs the functions for which it was originally intended.

**q. Subcontractor.** Any supplier, distributor, vendor or firm that furnishes supplies or service to or for a prime contractor or another subcontractor.

**r. Turnaround time.** That amount of time that's permitted for an item to be replaced/repared by the contractor/maintenance repair facility and returned to the user. The time is measured from the time the contractor/repair facility receives the request.

**s. Validation.** The process by which the contractor shall test/measure the WTB to assure its accuracy as it pertains to the warranty item(s).

**t. Verification.** The process of determining the accuracy and adequacy of the WTB provided by the contractor. This process is performed by the Government/user.

**u. WARCO.** Warranty Control Offices established at the General Support/Director of Industrial Operations Level, or equivalent, who serve 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.

**v. Warranty.** A promise or statement of fact from a seller to a purchaser on the nature, usefulness, or condition of the supplies or performance of services to be furnished, The main purposes of a warranty in a government contract are to outline the rights and obligations of the contractor and the government for defective items or services, It also serves to foster quality performance by the contractor but is not a substitute for an adequate quality assurance program.

**w. Warranty claim.** Action started by the equipment user for authorized warranty repair, replacement, or reimbursement made from the local dealer or manufacturer.

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

**y. Warranty start date.** The date the warranty is put into effect.

**3. COVERAGES-SPECIFIC.** The specifics of coverage for this warranty are listed in table 1. This warranty applies only to the S-250/G Unshielded and S-250/G Shielded Shelters as defined in TM 10-5411-205-13 and not to any other equipment installed in the shelters.

**Table 1. Specifics of Coverage**

<b>Nomenclature:</b>	Shelter, Electrical Equipment
<b>Line Item Number:</b>	S00792
<b>Model Numbers:</b>	S-250/G Unshielded and S-250/G Shielded
<b>National Stock Numbers:</b>	NSN 5411-00-999-4935 and 5411-00-489-6076
<b>Manufacturer and Part Numbers:</b>	Gichner Shelter Systems (GSS) (29381)
<b>Part Numbers:</b>	(81337) SM-D-649953 (Unshielded) (81337) SM-D-650124 (Shielded)
<b>Serial Numbers:</b>	001U thru 086U S-250/G Unshielded 087E thru 330E S-250/G Shielded
<b>Contract Number:</b>	DAAK01-88-C-0177
<b>Length of Time Coverage:</b>	Two years after acceptance or six months after deployment to a field unit, whichever occurs first.
<b>Type of Coverage:</b>	Warrants against defects in material and/or workmanship. This warranty does not cover damage resulting from accident, misuse or abuse, lack of reasonable care, and the affixing of any attachment not provided with the Shelters. Damage occurring during transit is not covered in this warranty.

**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, gaskets, 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.

**5. CONTRACTOR RESPONSIBILITIES.**

**a.** The contractor shall promptly repair, replace, or modify such parts as are necessary to achieve the specified performance requirements, as referenced herein, and the contractor shall bear the cost. Repair or replacement will be done only to the level originally supplied under the contract.

**b.** If the contractor fails to repair, replace or modify such parts promptly, as

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mutually agreed by the contracting officer and Gichner Shelter Systems, the contractor shall pay costs incurred by the Government in procuring such parts from another source and in accomplishing the repair. The contracting officer shall give Gichner Shelter Systems 30 days notification prior to exercising this option. Refer to paragraph 3 for warranty coverage.

**c.** On items used within the continental 48 states of the United States and the District of Columbia, the guarantee shall include the furnishing of new items to replace any that prove to be nonconforming and/or defective within the warranty period. Such items shall be furnished without cost to the Government, Free-on-Board (FOB) manufacturer's nearest dealer or branch, or to the original line item destination, whichever is more advantageous to the Government. The cost of any labor involved in the repair or replacement of items shall be borne by the contractor. Where warranty repairs exceed unit, direct support, general support, or depot level in accordance with the maintenance allocation chart, the contractor will provide at no cost to the Government, a technical service representative, on site, to remedy the situation during the warranty period. Response by the contractor shall be within a three (3) day working period after Government notification of this desired service. In all situations when repair or replacement requires transportation of the nonconforming or defective items(s), shipping costs from line item delivery point to contractor's plant and return, shall be at the expense of the contractor.

**d.** On items used outside the continental 48 states of the United States and the District of Columbia, the guarantee shall include the furnishing of new items to replace any that prove to be nonconforming and/or defective within the warranty period. Such items shall be delivered via air by the contractor to the destination point designated by the Government. The contractor shall be responsible for transportation costs not to exceed the greater of FOB manufacturer's nearest dealer/branch or the original line item destination. Return of defective items to the contractor shall be at the option and at the expense of the contractor. The cost of any labor involved in the repair or replacement of items shall be borne by the contractor. If the contractor maintains established business facilities servicing the geographic

area of concern, a technical service representative shall be furnished from such facility in accordance with the terms of paragraph c. that relate to technical service representatives. Where the contractor maintains no such facilities, the repair/or replacement of item(s) shall be accomplished by detailed installation instructions.

**e.** If the Government determines that a defective or nonconforming warranted item or component is within the maintenance capability of the user to repair or replace and does not require contractor repair or replacement, then the Government shall be entitled, from the contractor, those actual costs incurred, including detail parts, materials, and labor necessary to restore the item to an operational status.

**f.** Completion of warranty repair or replacement by the contractor will be documented in the quarterly Warranty Status Report. Whenever repairs or replacement are performed by the Government, the performing activity should notify the appropriate WARCO (Appendix A).

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

**7. GOVERNMENT RESPONSIBILITIES.** Using units are responsible for reporting failure to U.S. Army Troop Support Command, ATTN: AMSTR-QE, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798, AUTOVON 693-9457, Commercial (314) 263-9457. Only trained or qualified personnel having knowledge of the equipment requirements shall inspect the equipment for nonconformance deficiencies or for estimating repair cost(s). It shall be the responsibility of the Government to fully document the cause, if known, and description of each defect. 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.

**8. 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 locations and addresses.

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

**10. RETENTION OF FAILED COMPONENTS.** All failed components covered under this warranty shall be appropriately tagged and identified, and retained for 180 days for contractor examination, at contractor's option,

**11. GOVERNMENT MAINTENANCE.** Using units are allowed to perform troubleshooting, preventive maintenance, and replacement of defective components as authorized by the maintenance allocation chart.

**12. ALTERATIONS.** Alterations and/or modifications shall not be made to this equipment unless authorized by USATROSCOM.

**13. 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, If a failure is determined to be the result of modifications and/or repairs performed by any organization other than Gichner Shelter Systems, the warranty responsibilities are terminated for the modified item.

**14. FALSE RETURNS.** In the event it is determined that a failure was not subject to the guarantees described herein, the contractor will be reimbursed for any and all expenses incurred by the Warranty Claim Action (WCA).

**15. ABUSE DETERMINATION AND AVOIDANCE.** When damage to warranted items is not obvious, but suspected to be the result of abuse, the activity responsible for the equipment shall carefully document the nature, extent, probable cause, and estimated time and place of occurrence of the damage, The documented data shall be analyzed, and compared to similar cases (if existent), to determine whether the damage was accidental or intentional. Appropriate

action shall be taken to prevent recurrence of accidental or intentional abuse through training, added precautionary and/or handling and usage labeling or instruction, and personnel disciplinary measures.

**16. REIMBURSEMENT FOR ARMY REPAIR.** Request for reimbursement costs should be directed to the WARCO. In the event that the reimbursement costs requested exceed the costs estimated for equivalent Gichner Shelter Systems repair, the actual reimbursement amount will be negotiated with the contracting officer.

**17. REPORTING.** Reporting or recording action on a failed item shall be as specified in DA PAM 738-750.

**18. FORMS.** DA Forms 2407 and 2402 are used by the field in reporting WCA's. The purpose of these forms is for the seller to repair or replace any defective part so the equipment can be returned to an operational readiness mode. Instructions for completing these forms are in DA PAM 738-750.

**19. GOVERNING OF WCA'S.**

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

**b. Selecting exhibits.** A component or part of 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:

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(1) Send copies #1, #2, and #5 to: CDR, TROSCOM, ATTN: AMSTR-Q, 4300 Goodfellow Boulevard, 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 Boulevard, 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.

**20. STORAGE** Storage of the equipment or its components shall be as prescribed in TM 10-5411-205-14.

**21. SHIPMENT.** No shipment will be made without direct authority of the TROSCOM Warranty Control Officer. Refer to Appendix A.

**TB10-5411-205-23****APPENDIX A****TROSCOM WARRANTY CONTROL OFFICES (WARCOs)**

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	Crd, 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
USAREUR	GE, FULDA	Cdr, 11th ACR ATTN: AETO-CSS-MMC APO NY 09146	ETS 321-3679/3779

**APPENDIX A (Continued)**

**TROSCOM WARRANTY CONTROL OFFICES (WARCOs)**

Command	Location/Station	Address	Phone AV/COMM
USAREUR	GE, GARLSTEDT	Dcr, 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, MI 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
UWSREUR	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
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

**TB10-5411-205-23****APPENDIX A (Continued)****TROSCOM WARRANTY CONTROL OFFICES (WARCOs)**

Command	Location/Station	Address	Phone AV/COMM
USAREUR	GE, MOEHRINGEN	Cdr, V-II corps ATTN: AETS-GD-MR APO NY 09107	ETS 421-2622/2382
USAREUR	GE, MUNICH	Cdr, 66th MI GP ATTN: LAGPE-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
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 Cornm 0621-478791

**APPENDIX A (Continued)**

**TROSCOM WARRANTY CONTROL OFFICES (WARCOs)**

Command	Location/Station	Address	Phone AV/COMM
USAREUR	GE, WIESBADEN	Cdr, 19th Support Center ATTN: AETV-SCM-PF APO NY 09757-5000	ETS 337-5851/5377
USAREUR	GE, WORMS	Cdr, 5th SIGCOM ATTN: ASELG-M APO NY 09056	ETS 383-7554/7548
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
WESTCOM	FT. SHAFTER	Cdr, USASCH ATTN: APZV-DLM Ft. Shafter, HI 96858	438-1410

See also: "Maintenance Management Update"  
Issue Number 9  
Table J-1

**TB10-5411-205-23**

**APPENDIX B**

**REFERENCES**

DA PAM 738-750  
DA FORM 2407  
DA FORM 2402  
DA FORM 2408-9  
TM 10-5411-205-14

DD Form 250

The Army Maintenance Management System (TAMMS)  
Maintenance Request  
Exchange Tag  
Acceptance Report  
Technical Manual for Shelters, Electrical Equipment S-250/G  
Unshielded and S-250/G Shielded  
Material Inspection and Receiving Report  
Maintenance Management Update, Issue 9



**By Order of the Secretary of the Army:**

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

**Official:**

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

**DISTRIBUTION:**

To be distributed in accordance with DA Form 12-25A, Unit, Direct Support Maintenance requirements for Shelter, Expendable, 1-Side (5-4-2828-2).



RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



THEN... JOT DOWN THE DOPE ABOUT IT ON THIS FORM, CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL!

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

PFC JOHN DOE  
COA, 3d ENGINEER BN  
FT. LEONARDWOOD, MO 63108

DATE SENT

PUBLICATION NUMBER

TB 10-5411-205-23

PUBLICATION DATE

PUBLICATION TITLE Warranty Program For  
Electrical Equipment Shelters

BE EXACT... PIN-POINT WHERE IT IS

PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO
6	2-1 a		
B1		4-3	
125	line	20	

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

In line 6 of paragraph 2-1a the manual states the engine has 6 Cylinders. The engine on my set only has 4 Cylinders. Change the manual to show 4 Cylinders.

Callout 16 on figure 4-3 is pointing at a bolt. In key to figure 4-3, item 16 is called a shim - Please correct one or the other.

I ordered a gasket, item 19 on figure B-16 by NSN 2 910-00-762-3001. I got a gasket but it doesn't fit. Supply says I got what I ordered, so the NSN is wrong. Please give me a good NSN

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

JOHN DOE, PFC (268) 317-7111

SIGN HERE

JOHN DOE

DA FORM 2028-2  
1 JUL 79

PREVIOUS EDITIONS ARE OBSOLETE.  
DRSTS-M Overprint 1, 1 Nov 80

PS--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS

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UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

OFFICIAL BUSINESS

COMMANDER  
U S ARMY TROOP SUPPORT COMMAND  
ATTN: AMSTR-MCTS  
4300 GOODFELLOW BOULEVARD  
ST. LOUIS, MO 63120-1798

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PAGE NO

PARA-GRAPH

FIGURE NO

TABLE NO

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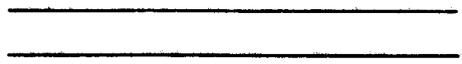


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TEAR ALONG PERFORATED LINE

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



THEN... JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT. FOLD IT AND DROP IT IN THE MAIL!

**SOMETHING WRONG WITH THIS PUBLICATION?**

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

TB 10-5411-205-23

PUBLICATION DATE

PUBLICATION TITLE Warranty Program For Electrical Equipment Shelters

BE EXACT... PIN-POINT WHERE IT IS

PAGE NO	PARA-GRAPH	FIGURE NO	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.

DA FORM 2028-2  
1 JUL 79

PREVIOUS EDITIONS ARE OBSOLETE.  
DRSTS-M Overprint 2, 1 Nov 80.

P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

TEAR ALONG PERFORATED LINE

FILL IN YOUR  
UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

\_\_\_\_\_  
\_\_\_\_\_

OFFICIAL BUSINESS

COMMANDER  
U S ARMY TROOP SUPPORT COMMAND  
ATTN: AMSTR-MCTS  
4300 GOODFELLOW BOULEVARD  
ST. LOUIS, MO 63120-1798

TEAR ALONG PERFORATED LINE

## 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

### *Weight*

1 centigram = 10 milligrams = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 1 gram = 10 decigrams = .035 ounce  
 1 dekagram = 10 grams = .35 ounce  
 1 hectogram = 10 dekagrams = 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

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply</i>
inches	centimeters	2.540	ounce-inches	newton-meters	.00706
feet	meters	.305	centimeters	inches	.39
yards	meters	.914	meters	feet	3.28
miles	kilometers	1.609	meters	yards	1.09
square inches	square centimeters	6.451	kilometers	miles	.62
square feet	square meters	.093	square centimeters	square inches	.15
square yards	square meters	.836	square meters	square feet	10.76
square miles	square kilometers	2.590	square meters	square yards	1.19
acres	square hectometers	.405	square kilometers	square miles	.38
cubic feet	cubic meters	.028	square hectometers	acres	2.47
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.31
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.30
pints	liters	.473	milliliters	fluid ounces	.03
quarts	liters	.946	liters	pints	2.11
gallons	liters	3.785	liters	quarts	1.05
ounces	grams	28.349	liters	gallons	.26
pounds	kilograms	.454	grams	ounces	.03
short tons	metric tons	.907	kilograms	pounds	2.20
pound-feet	newton-meters	1.356	metric tons	short tons	1.10
pound-inches	newton-meters	.11296			

## Temperature (Exact)

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

