#### DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

#### WARRANTY PROGRAM

#### **FOR**

#### TRAILER MOUNTED LAUNDRY UNIT

MODEL M85-100, NSN 3510-01-291-8169

Headquarters, Department of the Army, Washington, D. C. 1 May 1990

Approved for public release; distribution is unlimited.

#### REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this bulletin. If you find any mistakes 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.

- 1. General. This warranty technical bulletin identifies warranty conditions and procedures that apply to the Trailer Mounted Laundry Unit, Model M85-100, NSN 3510-01-291-8169, as supplied under Contract DAAK01-88-D-0041. This warranty will be for twelve (12) months from the date of supplies/equipment acceptance as shown on the Material Inspection Report (DD Form 250).
- **2. Explanation of Terms.** The following terms apply to the Laundry

- Unit warranty program:
- a. Abuse. The improper use, repair or handling of warranted items such that the warranty may become void. Failure to perform preventive maintenance or improperly performed corrective maintenance also constitutes abuse.
- b. Acceptance Date. The date an item of equipment is accepted into DOD inventory by the execution and signing of a DD Form 250 or an approved acceptance document by an

authorized Government representative.

- c. Contractor support. Those services that are to be performed and those responsibilities that are placed on the contractor by the Government as specified in the warranty contract/provisions of contract DAAK01 88-D-0041. This support, which may include items such as labor, parts, tools, training, technical packages, etc., will be used in support of the warranted equipment during the specified warranty period.
- d. Latent defects. Latent defects are defects that are not immediately obvious as a result of systematic engineering review of designs or documentation.
- 3. Coverage Specific. Engineered Air System, Inc., (the contractor) warrants that each Laundry Unit and each component of the Laundry Unit is manufactured to conform to specific performance requirements identified in DAAK01-88-D-0041. contract Additionally, Engineered Air Systems, Inc. warrants that each Laundry Unit and components of that same Laundry Unit are free from defects in materials and workmanship that would cause the Laundry Unit to fail to conform to performance requirements specified in contract DAAK01-88-D-0041. These conditions apply for a period of twelve months from the date supplies/equipment acceptance as shown on the Material Inspection Receiving Report (DD Form 250). This warranty applies only to components originally installed by Engineered Air Systems, Inc which can be identified by serial number factory-installed on Laundry Unit or to components repaired under the conditions of this warranty. The sole obligation of Engineered Air Systems shall be, at its option, to repair or replace any article or part which is proven to be other than warranted. For Engineered Air Systems to be obligated under this warranty, Engineered Air Systems, Inc. must be notified in writing within sixty days of discovery of a failed

component or item. Upon determination. that a defect is covered by this warranty, Engineered Air Systems, Inc. will replace or repair (at its option) without charge to the U.S. Government. If the defect is determined not to be covered by this warranty, EASI will advise the WARCO and will not proceed until written authorization and costing information is agreed upon. Under this warranty, the contractor is limited to the repair or replacement of a defective article. If repair or replacement is impossible or cannot be accomplished in time to meet Government schedules, the contractor will refund the purchase price including transportation. If the contractor determines that a unit or component is not for any reason covered by this Warranty, no warranty work will be performed except at the written direction of the Contracting Officer for DAAK01-88-D-0041. Contract Thereafter the matter will proceed through the "Disputes" clause of this document.. In the case of Governmentfurnished equipment or property, Engineered Air Systems, Inc. warrants that installation to (or of ) Governmentfurnished property by Engineered Air Systems will not degrade performance or reliability of that Government-furnished property. Modification of Government-furnished property by Engineered Air Systems, Inc. (other than installation of equipment) is warranted for two years from the date of acceptance.

4. Contractor Responsibilities. Engineered Air Systems, Inc. is responsible for providing repair or replacement of warranted items/components within 30 days after notification. Engineered Air Systems, Inc. is located at 1270 North Price Road, St. Louis, MO. 63132-2316 (314) 993-5880. The items determined to be defective due to defective material or workmanship, will be replaced with new or rebuilt items at no cost to the Government. Transportation costs for warranty service will be borne by the contractor.

- a. On items located within the continental United States and where warranty repairs exceed unit, direct, or general support or depot maintenance level in accordance with the Maintenance Plan in the statement of work, the contractor will provide at no cost to the government, a technical service representative, on site, to remedy the situation during the warranty period. Responce by the contractor shall be within a three (3) working day period after government notification of this desired service.
- b. On items located outside the continental United States and if the contractor maintains established business facilites servicing the geographic area of concern, a technical service representative shall be furnished from such facility in accordance with the terms of paragraph a. relating to technical service representatives. Where the contractor maintains no such facilities, the repair/ or replacement item (s) shall be accompanied by detailed installation instructions.
- 5. Government Responsibilities. Using activities are responsible for reporting failures 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 during the hours of 0800 1600 CST. U. S. Army Troop Support Command shall be responsible for administering the warranty program for the Laundry Unit.
- 6. Government Maintenance. The Government will be responsible for completing preventive and corrective maintenance in accordance with the approved Maintenance Allocation Chart. The Government will also be responsible for maintaining and providing to EASI appropriate maintenance records for each Laundry Unit by serial number and each maintenance action performed on each Laundry Unit or Laundry Unit component by serial number (if applicable). The Government will make

- these records available for contractor examination to determine warranty coverage for components and/or end items.
- 7. Owning Unit Responsibilities. The owning unit responsibilities shall be the same as those identified in the Government Responsibilities and Government Maintenance paragraphs.
- 8. Warranty Control Office (WARCO) Responsibilities. The Warranty Control Office for the Laundry Unit is U. S. Army Troop Support Command, 4300 Goodfellow, St. Louis, MO. WARCO responsibilities are identified in the Government Responsibilities paragraph.
- **9. Army Oil Analysis Program** (AOAP). The Army Oil Analysis Program does not apply to the Laundry Unit.
- 10. Alterations/Modifications. Alterations and modifications shall not be made unless expressly authorized or directed by: U. S Army Troop Support Command, 4300 Goodfellow Blvd., St. Louis. MO 63120-1798.

# 11. Design/Performance Specifications.

Equipment performance is as specified in the appropriate technical manual. The warranty tag for the unit is located on the unit control panel or on the frame.

- **12. Nullification.** Actions taken by Government personnel which will void Laundry Unit end item or component warranties are:
  - **a.** Failure to operate the Laundry Unit and/or components in accordance with approved Technical Manuals;
  - **b.** Failure to maintain the Laundry Unit and/or components in accordance with approved Maintenance Allocation Chart recommendation and Technical Manual procedures;

- **c.** Failure to properly install, connect, position or adjust the end item and/or components as prescribed by the appropriate Technical Manuals;
- **d.** Failure to adequately preserve a Laundry Unit before placing said unit into storage or failure to adequately depreserve a Laundry Unit when said unit is removed from storage;
- e. Transportation or storage of a Laundry Unit under conditions determined to be detrimental to the performance of the unit;
- **f.** Operation of the end item and/or components outside stated performance parameters;
- **g.** Operation of the end item and/or components for purposes other than intended.
- h. Removal of components from one serial numbered Laundry Unit for reinstallation on a different serial numbered Laundry Unit (cannibalization). (Installation of components that have been repaired under this warranty program being an exception);
- i. Modification or retrofit of components or equipment not expressly authorized by Engineered Air Systems, Inc.;
- **j.** Failure to maintain approproriate documentation that would resolve conclusively any question concerning the use, maintenance or deployment of the end item resulting in a warranty claim;
- **k.** Deployment of the end item in a combat zone or exposure of the end item to combat conditions.
- 1. This warranty does not apply to damage resulting from latent defects in maintenance philosophy, Maintenance Allocation Charts.

technical manuals or literature. This warranty does not apply to equipment damaged as a result of incorrect Technical Manuals or literature.

m. This warranty does not apply to spare parts or equipment supplied by contractors other than Engineered Air Systems, Inc. or as noted otherwise in this bulletin.

Actions required to keep this warranty in effect are:

- a. Proper maintenance (both preventive and corrective) of equipment as prescribed by approved Maintenance Allocation Charts and technical publications;
- **b.** Transportation, preservation, depreservation and storage in accordance with technical documentation:
- c. Operation of the end item and components within stated performance envelope(s);
- **d.** Use of the end item for its intended purpose.
- 13. Abuse Determination. When abuse is suspected but not obvious, it is the Government's responsibility to provide documentation of the maintenance of the item to allow the contractor or a joint contractor/Government panel to determine if abuse has occurred. If abuse (as defined in this bulletin) becomes evident, the Government will reimburse the contractor for the repair and associated repair and transportation costs.. Warranties for replacement parts will be the same as the warranty on replacent parts supplied in non-abuse situations.
- **14. Abuse Avoidance.** When abuse (intentional or unintentional) has been determined, a statement shall be made by the abuse determining activity as to how abuse can be avoided in the future.

- **15. Claim Procedures.** When the need for warranty service becomes evident, the following steps must be completed:
  - **a. Identification of Failed Items.** Failed items should be identified as follows:
    - (1.) Failed warranty items should be tagged/identified to prevent improper repair or use. DA Form 2402 Exchange Tag shall be completed and attached to the defective component. Refer to Appendix A for instructions on completing DA Form 2402.
    - (2.) DA Form 2407 Maintenance Request is to be completed. Refer to Appendix B for instructions on completing DA Form 2407.
    - (3.) The Warranty Control Office and Engineered Air Systems, Inc. must be notified of the failure in writing within 30 days of failure occurrence. A list of Warranty Control Offices is supplied as Appendix C.
    - (4.) 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:
      - (a.) 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.
      - (b.) 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.
- (c.) 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.
- (5.) 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:
  - (a.) 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.
  - (b.) Normal DX replacement actions will be made by the DX shop for like serviceable items in stock.
- (6.) Final processing of approved Support of depot claims. maintenance units will handle all claims promptly. These units will send approved claims to the creator whose adress and MILSTRIP document number is in Block 20 of DA Form 2407. The support or depot unit will also return to the replacing unit all labor costs used in replacing the bad items. Refer to Appendix B for information on completing DA Form 2407 and Appendix A for information on completing DA Form 2402.
- **b. Disposition of Failed Items.** Failed items will be dispositioned in accordance with instructions issued by the appropriate WARCO after review of the documentation submitted.

- (1.) False Returns. Government units returning items to the contractor for repair which are found to be serviceable will be penalized for the cost, loss of time, nonavailability of items or other restrictions. False returns will be monitored by TROSCOM.
- (2.) Receipts/verification of contractor repairs.
- c. Special Area Requirements. If an item or component is located in the continental United States (CONUS), the item will be returned to the destination identified for that component or to Seller's plant, whichever is advantageous to the Government. In the event components are located outside CONUS, the appropriate WARCO listed in Appendix C shall be contacted for disposition instructions.
- d. Reimbursement for Army Repair. The Army shall proceed with

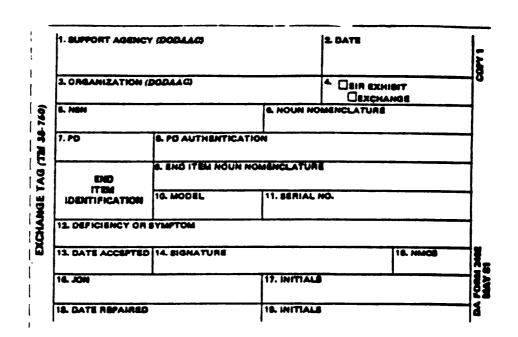
non-contractor repair only after negotiation and settlement with the contractor concerning the scope of repairs to be performed by Army personnel.

Army repair of hardware shall proceed only upon reciept of written instructions from the contractor and appropriate WARCO.

- e. Claim Denials/Disputes. Claim denials/disputes will be addressed through the WARCO and by Engineered Air Systems. When a dispute arises, settlement will be established by negotiation between TROSCOM and the Contracts department of Engineered Air Systems, Inc.
- **f. Reporting.** Reporting or recording action on a failed item shall be as specified in DA Pam 738-750 or DA Pam 738-751.

### Appendix A DA Form 2402





- **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 DOOAAC 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 nounabbreviation of the item to be exchanged.
- **7. PD.** Enter the priority designator (PD) that applies to the action. The unit or organization lised in Block 3 normally assigns the PD. When the exchange supports a customer maintenance request, use the PD 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 PD 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 5.
- 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 number.
- ${\bf 17.}$   ${\bf INITIALS.}$  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.

#### APPENDIX B DA FORM 2407

	MAINTENANCE REQUEST  For use of the family as The 25-760; the programm operator in SCELOG			4.00	COSLS—FORTROL SYMBOL			
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I SEMAL NO.	3. HOUR HOMENCLATURE	A. LINE NO.	e mooge		& national stock humber			

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.

WESDC. Leave blank.

ORG PD. Leave blank.

PD 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 (UIC) 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. WANTERANCE ACTIVITY	a Lavel a.	71112A 8. MG	ITSM	_	11. 10.44	12 ASSOCIATION
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- **7. Maintenance Activty.** Put in the name of your support activity.
- **a.** Level. Put in the code of the maintenance level doing thee maintenance.
- O Organizational (ORG)
- F Direct Support (DS)
- H General Support (GS)
- D Depot
- L Special Repair Activity
- **8. Utilization Cod..** For nontactical wheeled vehicles in administrative use, use utilization code "V."
- 9. MCSR Item. Leave blank.
- 9a. ERC. Leave blank.
- 9b. Pacing Items. 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 failture 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
258	Overheating
387	Low performance
790	Out of adjustment
* 380	Intermittent
* 432	Off frequency
* 580	Unstable
* 077	Accident (motor vehicle)
* 777	Accident (motor vehicle)
* 099	Other

<sup>\*</sup> 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,

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17a thru 18. Leave blank.

19. CONTRACT NUMBER (DAAK01-87-C-A018).

**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.

201. Total Manhouse. 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.

# APPENDIX C TROSCOM WARRANTY CONTROL OFFICES (WARCO)

Command	Location/Station	Address	Phone AV/COMM
TROSCOM	HEADQUARTERS	Cdr, TROSCOM ATTN: AMSTR-Q 4300 Goodfeallow Blvd. St. Louis, MO 63120-1798	693-9457
USACSLA	FT. HUACHUCA	Cdr, USA CSLA ATTN: SELCL-MMP-MM Ft. Huachuca, AZ 85613-7090	879-6037
USAEMRA	VINT HILL FARMS	Cdr, USA EMRA ATTN: SELEM-A Vint Hill Farms Station Warrenton, VA 22186	249-6781
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 468-8461
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, 5430 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

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
USAREUR	GE, KARLSRUHE	Cdr, 18th Eng Bde ATTN: AEUEG-S APO NY 09164-2934	ETS 376-6069/7102

Command	Location/Station	Address	Phone AV/COMM
USAREUR	GE, MANNHEIM	Cdr, CBT Equip Go 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
USAREUR	GE, SANDHOFEN	Cdr, 70th TRANS BN ATTN: AERSS-S APO NY 09028	ETS 382-61 10/7236

Command	Location/Station	Address	Phone AV/COMM
USAREUR	GE, SECKENHEIM	Cdr, HQ AMC Europe ATTN: AMXEU-CQ APO NY 09333	380-6222 Comm 0621-478791
USAREUR	GE, WEISBADEN	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, SWEIBRUECKEN	Cdr, 60th Ord Gp ATTN: AEROD-LM APO NY 09052-3818	ETS 494-6275/7398
USAREUR	GE, SWEIBRUECKEN	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

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 Genera/

#### DISTRIBUTION:

To be distributed in accordance with DA Form 12-25E, Unit and Direct Support and General Support Maintenance requirements for Laundry Unit, Single Trailer Mounted, with Canvas Cover, Type M532.



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PUBLICATION TITLE

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FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

PFC JOHN DOE

COA, 3d ENGINEER BN

FT. LEANER DWOOD, MQ 63108

DATE SENT

PUBLICATION NUMBER

TEAR ALONG PERFORATED LINE

TB 10-3510-220-24

PUBLICATION DATE

1 May 1990

TRAILER MOUNTED LAUNDRY UNIT

BE EXAC	PARA-	FIGURE	RE IT IS	IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
6	GRAPH 2-/	NO	NO	In line 6 g paragraph 2-10 the
				manual states the engine has
				be Cylinder. The engine on my set only has 4 Cylinder.
				change the manual to show L
				Cylenders.
ВІ		4-3		Callant 16 on figure 4-3 is
				pointing at a bolt. In key
				to figure 4-3, item 16 is celled a shim - Please Correct
				one or the other.
125	le	سف ح	20	I ordered a gasket, item
				19 on figure B-16 ley NSN
				2910-00-762-3001. I get a
				gasket bist it dress t fit.
	:			Supply says I got what
			İ	I ordered, so the NSN is
				Wrong. Please give me a
				SIGN HERE STATE DOE
JOHN	DOE	PFC	(268)	317.7111 JOHN DOE

DA 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE.

DRSTS-M Overprint 1, 1 Nov 80

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i						
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### The Metric System and Equivalents

#### Linear Manager

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

#### بغفيته

1 centigram = 10 milligrams = .15 grain 1 decigram = 10 centigrams = 1.54 grains 1 gram = 10 decigram = .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 milliters = .84 fl. ounce 1 deciliter = 10 centiliters = 3.85 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

#### Could Manage

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	n	Makipiy by	To change	76	Multiply by
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.894
yards	meters	.914	meters	foot	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	equare inches	.155
square yards	square meters	.836	equare meters	equare feet	10.764
square miles	square kilometers	2.590	equare meters	equare yards	1.196
acres	square hectometers	.406	equare kilometers	equare miles	.386
cubic feet	cubic meters	.028	equare hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	<b>35.3</b> 15
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pinte	liters	.473	milliliters	fluid ounces	.034
quarte	liters	.946	liters	pints	2.113
galions	liters	3.785	liters	guarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grame	ounces	.036
short tons	metric tons	.907	kilograms	pounds	2,206
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

## Temperature (Exact)

• P	Fahrenheit	5/9 jafter	Colsius	•C
	temperature	subtracting 32)	temperature	

PIN: 067764-000