REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. 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 directly to: Commander, US Army Soldier and Biological Chemical Command, ATTN: AMSSB–RIM–L(N), Kansas St., Natick, MA 01760. You may also submit your recommended changes by E–mail directly to: <amssbriml@natick.army.mil>. A reply will be furnished directly to you. Instructions for sending electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.
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FRONT MATTER. Front matter consists of front cover, warning summary, title block, table of contents, and how to use this manual page.

CHAPTER 1 – INTRODUCTION. Chapter 1 contains general information, equipment description, and theory of operation.

CHAPTER 2 – OPERATOR INSTRUCTIONS. Chapter 2 contains a description and use of operator controls and indicators, operating procedures under usual conditions, and operating procedures under unusual conditions.

CHAPTER 3 – TROUBLESHOOTING PROCEDURES. Chapter 3 contains general troubleshooting information, a troubleshooting index, and troubleshooting procedures authorized at operator level.

CHAPTER 4 – MAINTENANCE INSTRUCTIONS. Chapter 4 provides preventive maintenance checks and services (PMCS), lubrication instructions, and maintenance procedures authorized at operator level.

CHAPTER 5 – SUPPORTING INFORMATION. Chapter 5 contains references, components of end item (COEI) list, basic issue items list (BII) list, additional authorization list (AAL), and expendable and durable items list.

REAR MATTER – Rear matter consists of alphabetical index, DA Form 2028, authentication page, and back cover.
SCOPE
This manual contains instructions for operation, troubleshooting, PMCS and maintenance procedures for the Laundry Advanced System (LADS).

Type of Manual: Operator.

Model Number and Equipment Names: Laundry Advanced System.

Purpose of Equipment: The system is used to perform field laundering of Army clothing and equipment.

MAINTENANCE FORMS, RECORDS, AND REPORTS
Department of the Army forms and procedures used for equipment maintenance will be those prescribed by (as applicable) DA PAM 738–750, The Army Maintenance Management System (TAMMS), DA PAM 738–751, The Army Maintenance Management System–Aviation (TAMMS–A); or AR 700–138, The Army Logistics Readiness and Sustainability.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)
If your Laundry Advanced System needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don’t like about your equipment. Let us know why you don’t like the design or performance. Put it on an SF 368 (Product Quality Deficiency Report). Mail it to the address specified in DA PAM 738–750, The Army Maintenance Management System (TAMMS), or as specified by the contracting activity. We will send you a reply.

CORROSION PREVENTION AND CONTROL (CPC)
Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using Standard Form SF 368, Product Quality Deficiency Report. Use of keywords such as “corrosion,” “rust,” “deterioration,” or “cracking” will ensure that the information is identified as a CPC problem.

The form should be submitted to the address specified in DA PAM 738–750, The Army Maintenance Management System (TAMMS).

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE
References to “destruction of Army materiel to prevent enemy use” are contained in TM 750–244–3.

PREPARATION FOR STORAGE AND SHIPMENT
Refer to PREPARATION FOR MOVEMENT [WP 0014 00].

WARRANTY INFORMATION
The Laundry Advanced System does not contain warranty provisions.
### NOMENCLATURE CROSS-REFERENCE LIST

<table>
<thead>
<tr>
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<th>Official Nomenclature</th>
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<tbody>
<tr>
<td>LADS</td>
<td>Laundry Advanced System</td>
</tr>
<tr>
<td>Laundry Unit</td>
<td>Laundry Advanced System</td>
</tr>
</tbody>
</table>

### LIST OF ABBREVIATIONS

- **ac**: alternating current
- **C**: Centigrade
- **CAGEC**: Commercial and Government Entity Code
- **cm**: centimeter
- **CCW**: Counter-Clockwise
- **CW**: Clockwise
- **CPC**: Corrosion Prevention and Control
- **DA**: Department of the Army
- **dc**: direct current
- **EIR**: Equipment Improvement Recommendation
- **ESD**: Electrostatic Discharge Sensitive
- **F**: Fahrenheit
- **FRS**: Finish Reapplication System
- **ft**: foot
- **Gal**: gallon
- **GFI**: Ground Fault Interrupt
- **hp**: horsepower
- **h**: hour
- **Hz**: Hertz (frequency or cycles per second)
- **in**: inches
- **I/O**: Input/Output
- **ISO**: International Organization for Standardization
- **kg**: Kilogram
- **kW**: Kilowatt
- **kPa**: Kilopascal
LIST OF ABBREVIATIONS – Continued

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>I</td>
<td>liter</td>
</tr>
<tr>
<td>ltrs</td>
<td>liters</td>
</tr>
<tr>
<td>lbs</td>
<td>pounds</td>
</tr>
<tr>
<td>MAC</td>
<td>Maintenance Allocation Chart</td>
</tr>
<tr>
<td>NSN</td>
<td>National Stock Number</td>
</tr>
<tr>
<td>PCB</td>
<td>Printed Circuit Board</td>
</tr>
<tr>
<td>PMCS</td>
<td>Preventive Maintenance Checks and Services</td>
</tr>
<tr>
<td>psi</td>
<td>Pounds per square inch</td>
</tr>
<tr>
<td>psig</td>
<td>Pounds per square inch gage</td>
</tr>
<tr>
<td>RPM</td>
<td>Revolutions Per Minute</td>
</tr>
<tr>
<td>RPSTL</td>
<td>Repair Parts and Special Tools List</td>
</tr>
<tr>
<td>SCF</td>
<td>Standard Cubic Feet</td>
</tr>
<tr>
<td>SMR</td>
<td>Source, Maintenance, and Recoverability [Code]</td>
</tr>
<tr>
<td>SSR</td>
<td>Solid State Relays</td>
</tr>
<tr>
<td>TM</td>
<td>Technical Manual</td>
</tr>
<tr>
<td>TMDE</td>
<td>Test, Measurement, and Diagnostics Equipment</td>
</tr>
<tr>
<td>VAC</td>
<td>Volts Alternating Current</td>
</tr>
<tr>
<td>VDC</td>
<td>Volts Direct Current</td>
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</table>

END OF WORK PACKAGE
CHAPTER 1
INTRODUCTORY INFORMATION WITH THEORY OF OPERATION FOR LAUNDRY ADVANCED SYSTEM
EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

The Laundry Advanced System (LADS) consists of two washing/drying systems. The LADS also includes a water recycle system, heating system, air system, and control system. These systems support the operation of both washing/drying systems. The LADS components are mounted on an International Organization for Standardization (ISO) frame which is mounted on a 22-1/2 ton M871A3 semi-trailer. The LADS uses external electrical power. This power is normally provided by a 30 kilowatt (kW), MEP-805A Tactical Quiet Generator Set. The LADS can also be operated with other field generators or commercial power. The LADS requires an external supply of potable water and an external supply of JP-8 fuel. Fuel is normally provided from a 400-gallon fuel tank. A storage locker is provided to store accessories, auxiliary equipment, and consumables.
LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

ISO FRAME

The LADS components are mounted to an 8 foot (ft) wide X 8 ft high X 20 ft long ISO frame. The frame mounts to the M871A3 Trailer via ISO locks. Ladder rungs are provided at both ends of the frame to access the top of the LADS. A protective tarp is provided to cover the front, rear, and top of the LADS during transport.
PLATFORM
A work platform is provided at the curbside of the LADS to facilitate laundry and maintenance operations. A hand winch is used to raise and lower the platform. Two adjustable legs are provided to support the front of the platform. Hand rails are provided at the platform sides to prevent personnel from falling. Stairs are located on the side of the platform for ground-level access. The protective tarp used to cover the LADS during transport converts into an awning to protect personnel on the platform from exposure to rain, sun, and wind.