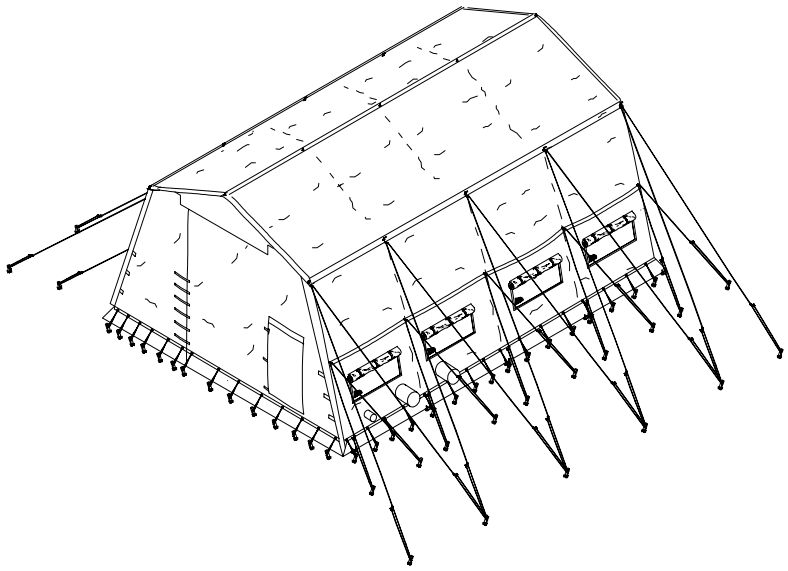
OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL) FOR THE LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I NSN 8340-01-456-3637 (GREEN) LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I NSN 5410-01-512-6865 (DESERT TAN) LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE II NSN 5410-01-512-6867 (GREEN) LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE II NSN 5410-01-512-6868 (DESERT TAN)



***SUPERSEDURE NOTICE** **This technical manual supersedes TM 10-5410-284-13&P, dated 30 July 1999**

HEADQUARTERS, DEPARTMENT OF THE ARMY

31 MARCH 2004

PCN 182 106020 00

WARNING SUMMARY

This warning summary contains general safety warnings that must be understood and applied during the operation of this equipment. Failure to observe these precautions could result in serious injury or death to personnel. Also included are explanations of safety icons that are used within this technical manual.

EXPLANATION OF SAFETY WARNING ICONS

ELECTRICAL – Electrical wire to arm with electricity symbol running through human body shows that shock hazard is present.

HEAVY PARTS – Heavy object on human figure shows that heavy parts present a danger to life or limb.

HEAVY OBJECT – Human figure stooping over heavy object shows physical injury potential from improper lifting technique.

FALLING – Legs prone shows that there is a danger of falling due to unstable footing.

MOVING PARTS – Hand with fingers caught between gears shows that the moving parts of the equipment present a danger to life or limb.

FALLING PARTS/EQUIPMENT – Sufficient personnel should be available and placed properly to prevent any parts or equipment from falling. Use care when carrying or swinging assemblies around.

DESCRIPTION OF GENERAL SAFETY WARNINGS

WARNING

When end loading and unloading is required, LONG FORKS must be used. Failure to comply may result in serious injury or death to personnel.

WARNING

Use care when unfolding frame assemblies. Hands and fingers can be pinched when placed on hinge joints. Failure to comply may result in serious injury to personnel.

WARNING

Ensure sufficient personnel are available and placed properly to prevent any frame assemblies from falling when being disassembled. Use care when carrying or swinging assemblies around or carrying them to their transport bags. Be aware of personnel nearby. Failure to comply may cause serious injury or death to personnel.

WARNING

Do not repair a fabric panel of an erected LME when the damage is located above standing height. Strike, or lower the LME as described in Chapter 2 to affect repairs. If the lights are in use, limit the inspection of individual lights to a visual inspection from a standing position to avoid injuries from falls. Failure to comply may result in serious injury.

WARNING

Lethal voltage is present when the power distribution box is connected to a power source. Disconnect the power source before attempting any repairs to the box. Failure to comply may result in serious injury or death to personnel.

WARNING

Remain clear of the packed LME while it is being moved by forklift or any other mechanical means. Failure to comply may result in serious injury or death to personnel.

WARNING

Carrying fabric assemblies and raising the frame structure requires 12 persons. Use proper lifting techniques to prevent injury to personnel. Serious injuries may result if less than 12 persons attempt these tasks.

TM 10-5410-284-13&P

CHANGE NO. 1

HEADQUARTERS, DEPARTMENT OF THE ARMY
WASHINGTON, DC, 31 AUGUST 2005

TECHNICAL MANUAL

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL,
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)
FOR

LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I
NSN: 8340-01-456-3637 (GREEN)
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I
NSN: 5410-01-512-6865 (DESERT TAN)
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE II
NSN: 5410-01-512-6867 (GREEN)
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE II
NSN: 5410-01-512-6868 (DESERT TAN)

DISTRIBUTION STATEMENT A: - Approved for public release; distribution is unlimited.

TM 10-5410-284-13&P, 31 March 2004, is updated as follows:

1. File this sheet in front of the manual for reference.

2. This change implements Army Maintenance Transformation and changes the Maintenance Allocation Chart (MAC) to support Field and Sustainment Maintenance.

3. New or updated change information is indicated by a vertical bar in the outer margin of the page.

4. Remove old pages and insert new pages as indicated below:

Remove Pages	**Insert Pages**
A/(B Blank)	A/(B Blank)

5. Replace the following work packages with their revised version:

Work Package Number	**Work Package Number**	**Work Package Number**	**Work Package Number**
WP 0033 00			
WP 0034 00			

By Order of the Secretary of the Army:

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

Official:

SANDRA R. RILEY
Administrative Assistant to the
Secretary of the Army
0521008

R.P. SHOCKEY
Director, Program Support
Marine Corps System Command

Distribution: To be distributed in accordance with initial distribution number (IDN) 256530 requirements for TM 10-5410-284-13&P.

INSERT LATEST UPDATED PAGES / WORK PACKAGES. DESTROY SUPERSEDED DATA.

LIST OF EFFECTIVE PAGES / WORK PACKAGES

NOTE: The portion of text affected by the update is indicated by a vertical line in the outer margins of the page. Updates to illustrations are indicated by miniature pointing hands.

Dates of issue for original and changed pages / work packages are:

Original .. 0 .. 31 March 04

Change .. 1 .. 31 August 05

Total number of pages for front and rear matter is 26. The total number of work packages is 50 consisting of the following:

Page/ Work Package No.	*Change No.	Page/ Work Package No.	*Change No.
Title	0		
a - b	0		
i-v/(vi Blank)	0		
WP 0001 00 – WP 0032 00	0		
WP 0033 00 – WP 0034 00	1		
WP 0035 00 – WP 0050 00	0		
Glossary 1/(2 Blank)	0		
Index 1 – Index 5/(6 Blank)	0		

***Zero in this column indicates an original page or work package**

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 31 MARCH 2004

TECHNICAL MANUAL

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I
NSN 5410-01-456-3637 (GREEN)
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I
NSN 5410-01-512-6865 (DESERT TAN)
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NSN 5410-01-512-6867 (GREEN)
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE II
NSN 5410-01-512-6868 (DESERT TAN)

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 together with DA Form 2028 (Recommended Changes to Publications and Blank Forms), located in the back of this manual, directly to: Commander, U.S. Army Tank-automotive and Armament Command, ATTN: AMSTA-LC-CECT, Kansas Street, Natick, MA 01760-5052. You may also send in your recommended changes via electronic mail directly to amssbriml@natick.army.mil. A reply will be furnished to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

***SUPERSEDURE NOTICE** This technical manual supersedes TM 10-5410-284-13&P, dated 30 July 1999.

TABLE OF CONTENTS

WP Sequence No.

TABLE OF CONTENTS - Continued

TABLE OF CONTENTS - Continued

WP Sequence No.

HOW TO USE THIS MANUAL

This manual contains General Information, Operating Instructions, Operator Preventive Maintenance Checks and Services (PMCS), Troubleshooting, and Maintenance/Repair instructions for the Lightweight Maintenance Enclosure (LME).

Chapter 1 contains introductory information on the LME and its associated equipment as well as Theory of Operation. Chapter 2 includes operating instructions under usual and unusual conditions. Chapter 3 contents include operator troubleshooting, and service procedures. Chapter 4 contains PMCS procedures, and operator maintenance instructions. Chapter 5 contains Unit Maintenance Instructions and repair procedures. Direct Support maintenance information can be found in Chapter 6. Chapter 7 contains references, other supporting information, and includes the Repair Parts and Special Tools List (RPSTL). The RPSTL identifies those parts or tools that are unique to the operation and maintenance of this equipment.

Manual Organization and Page Numbering System. The Manual is divided into seven major chapters that detail the topics mentioned above. Within each chapter there are work packages covering a wide range of topics. Each work package is numbered sequentially starting at page 1. The work package has its own page numbering scheme and is independent of the page numbering used by other work packages. Each page of a work package has a page number in the form of XXXX YY-ZZ, where XXXX is the work package number (e.g. 0010 is work package 10) and YY is the revision number for that work package and ZZ represents the number of the page within that work package. A page number such as 0010 00-1/(2 blank) means that page 1 contains information but page 2 of that work package has been intentionally left blank.

Finding Information. This manual has a master Table of Contents (TOC) on page i through iii and permits the reader to find information in the manual quickly. The reader should start here when looking for a specific topic. The master TOC lists the topics contained within a chapter and where it can be found.

Figures. Illustrations in this manual are not numbered when presented within maintenance instructions; they are located immediately following the paragraph, which contains their callouts. Only the RPSTL has illustrations that are numbered.

An Alphabetical Index is in the back of the manual, and lists specific topics with the corresponding work package.

A Glossary of terms is provided to explain terms and words that are unique to this equipment.

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME), TYPE I AND TYPE II
NSN 8340-01-456-3637, TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867, TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
GENERAL INFORMATION

SCOPE

This manual contains equipment description, operating instructions, and maintenance procedures for the Lightweight Maintenance Enclosure (LME) Type I, Type II, the 8-Foot Extension Assembly Kit. It also includes references to publications that contain information on separately documented components of the LME Type I, Type II.

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, Functional Users Manual for the Army Maintenance Management System (TAMMS); DA PAM 738-751, Functional Users Manual for the Army Maintenance Management Systems – Aviation (TAMMS – A); or AR 700-138, Army Logistics Readiness and Sustainability.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your LME Type I, Type II or LME Extension kit 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 a Standard Form 368 (Product Quality Deficiency Report). Mail the report to:

Commander, U.S. Army Tank-automotive and Armament Command
ATTN: AMSTA-LC-R
Kansas Street, Natick, MA 01760-5052

We will send you a reply. Instructions for sending an electronic 2028 may be found in the back of this manual immediately preceding the hardcopy 2028.

HAND RECEIPT (HR) MANUALS

This manual has a companion document with a TM number followed by "-HR" (which stands for Hand Receipt). TM 10-5410-284-13&P-HR consists of preprinted hand receipts that list end item related equipment (i.e., COEI, BII and AAL) that must be accounted for. As an aid to property accountability, additional HR manuals may be requisitioned through normal publication channels.

CORROSION PREVENTION AND CONTROL (CPC)

Corrosion Prevention and Control (CPC) of U.S. Army materiel is a continuing concern. It is important that any corrosion problems with the LME Type I, Type II, or 8-ft Extension Assembly Kit be reported so that the problem can be corrected and improvements made to prevent the problem in future items. While corrosion is typically associated with the 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 considered a corrosion problem. If a corrosion problem is identified, report it using a Standard Form 368 Product Quality Deficiency Report. Using key words such as "corrosion," "rust," "deterioration," or "cracking" will assure that the information is identified as a CPC problem. This form should be submitted to:

Commander, U.S. Army Soldier System Command
Attn: AMSSB-RIM-E(N)
Kansas Street, Natick, MA 01760-5052

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE
Destruction of Army materiel to prevent enemy use shall be in accordance with TM 750-244-3.

PREPARATION FOR STORAGE AND SHIPMENT
Before placing the LME Type I, Type II or 8 foot Extension Assembly kit in administrative storage or preparing the system for shipment, current maintenance services must be applied, defects and failures corrected, and Modification Work Orders (MWO's) applied. Prepare the system for storage and shipment as described in Chapter 2.

Placement of equipment in storage
Equipment should be placed in storage for limited periods only, when a shortage of maintenance capability exists. Items should be mission ready within 24 hours, or within time factors set by the directing authority. During storage periods, maintenance records must be kept current.

Storage site selection
Covered space is preferred. When sufficient covered space is not available, priority should be given to items that are most susceptible to deterioration from the elements. Open sites should be improved hardstand, if available. Unimproved sites should be firm, well-drained locations, and free of excessive vegetation.

WARRANTY INFORMATION
For equipment under manufacturer's warranty, hard time oil service intervals shall be followed. Intervals shall be shortened if lubricants are known to be contaminated or if operation is under adverse conditions (such as longer-than-usual operating hours, extended idling periods, extreme dust).

NOMENCLATURE CROSS-REFERENCE LIST
The following lists cross-reference, common names used throughout this manual to official nomenclature.

Common Name	Official Nomenclature
Tent	Lightweight Maintenance Enclosure
Power Box	Power Distribution Box
Lights	Assembly, Light Kit
LME Repair Kit	Repair Kit, Tentage

LIST OF ABBREVIATIONS/ACRONYMS

AC	Alternating Current	MOS	Military Occupational Specialty
AAL	Additional Authorized List	MTOE	Modified Table of Organization and equipment
Assy	Assembly	NBC	Nuclear, Biological, Chemical
BII	Basic Issue Item	NSN	National Stock Number
COEI	Component of End Item	p	Position
CPC	Corrosion Prevention Control	PMCS	Preventive Maintenance Checks and Services
CTA	Common Table of Allowances	PDB	Power Distribution Box
ECU	Environmental Control Unit	POL	Petroleum, Oil and Lubricant
EIR	Equipment Improvement Recommendation	RPSTL	Repair Parts and Special Tools List
FGC	Function Group Code	TOE	Table of Organization and Equipment
ft^2	Square Foot	U/M	Unit of Measure
Hz	Hertz	UOC	Usable On Code
in.	Inch	v	Volt
kW	Kilowatt	VAC	Volts Alternating Current
LADS	Laundry, Advanced System	W	Watt
LME	Lightweight Maintenance Enclosure	WP	Work Package
MAC	Maintenance Allocation Chart		

SUPPORTING INFORMATION FOR REPAIR PARTS, SPECIAL TOOLS, AND SUPPORT EQUIPMENT
Refer to the Maintenance Allocation Chart (MAC) in Work Package 0034 00 for a listing of maintenance items and tools or test equipment. Refer to the Repair Parts and Special Tools List (RPSTL) beginning in Work Package 0036 00 for details concerning repair parts. No special tools are required for the LME.

SAFETY, CARE, AND HANDLING
Be alert and note **WARNINGS**, **CAUTIONS**, and **NOTES**. These provide for safe operation of the equipment, and protect you and your equipment from injury and damage.

CHAPTER 1

DESCRIPTION
AND
THEORY OF OPERATION
FOR THE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME), TYPE I AND TYPE II
NSN 8340-01-456-3637, TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867, TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
EQUIPMENT DESCRIPTION AND DATA

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

The LME features a modular frame assembly and consists of collapsible aluminum sections that unfold and assemble into a single rigid structure. The LME can be set up quickly under normal operating conditions by MOS non-specific personnel.

Characteristics	Capabilities
Lightweight Structure	Can be erected within 1 hour by 12 personnel
No special tool requirements to erect	Accommodates large tracked and wheeled vehicles
Modular construction	Internal fluorescent lighting
Internal power distribution box	Accommodates heating or cooling ducts
Separate personnel and vehicle entrances	Side windows / ventilation
Can be set up by MOS non-specific personnel	Internal coated fabric sections maximize light diffusion
	Flexible configuration

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

The major components of the tent fabric sections are identified and described in the following paragraphs. For the differences between Type I and Type II, refer to the Differences Between Models section.

The Lightweight Maintenance Enclosure (LME) frame sections are made of aluminum components and assemblies. These are secured by means of turn-and-lock mechanisms or attached quick release pins. No special tools are required to erect the LME. These components, together with the power distribution box and light set, are illustrated on the next page and described in the following paragraphs.

Fabric Assembly, End Panel (1) - Two end fabric panels, made of flame resistant and mildew resistant polyester, enclose the ends of the structure. These attach with grommets and becket lacing to the large intermediate fabric panels. A hook and loop wind flap covers the becket lacing, making the joint weather-proof.

Fabric Assembly, Intermediate Section (2) - Two large rectangular fabric panels, made of flame resistant and mildew resistant polyester, make up the bulk of the LME enclosure. The panels are secured together using built-in grommets and becket lacing. A hook and loop wind flap covers the becket lacing, making it weatherproof. The fabric is coated white on the inside for maximum light distribution and green on the outside for low visibility.

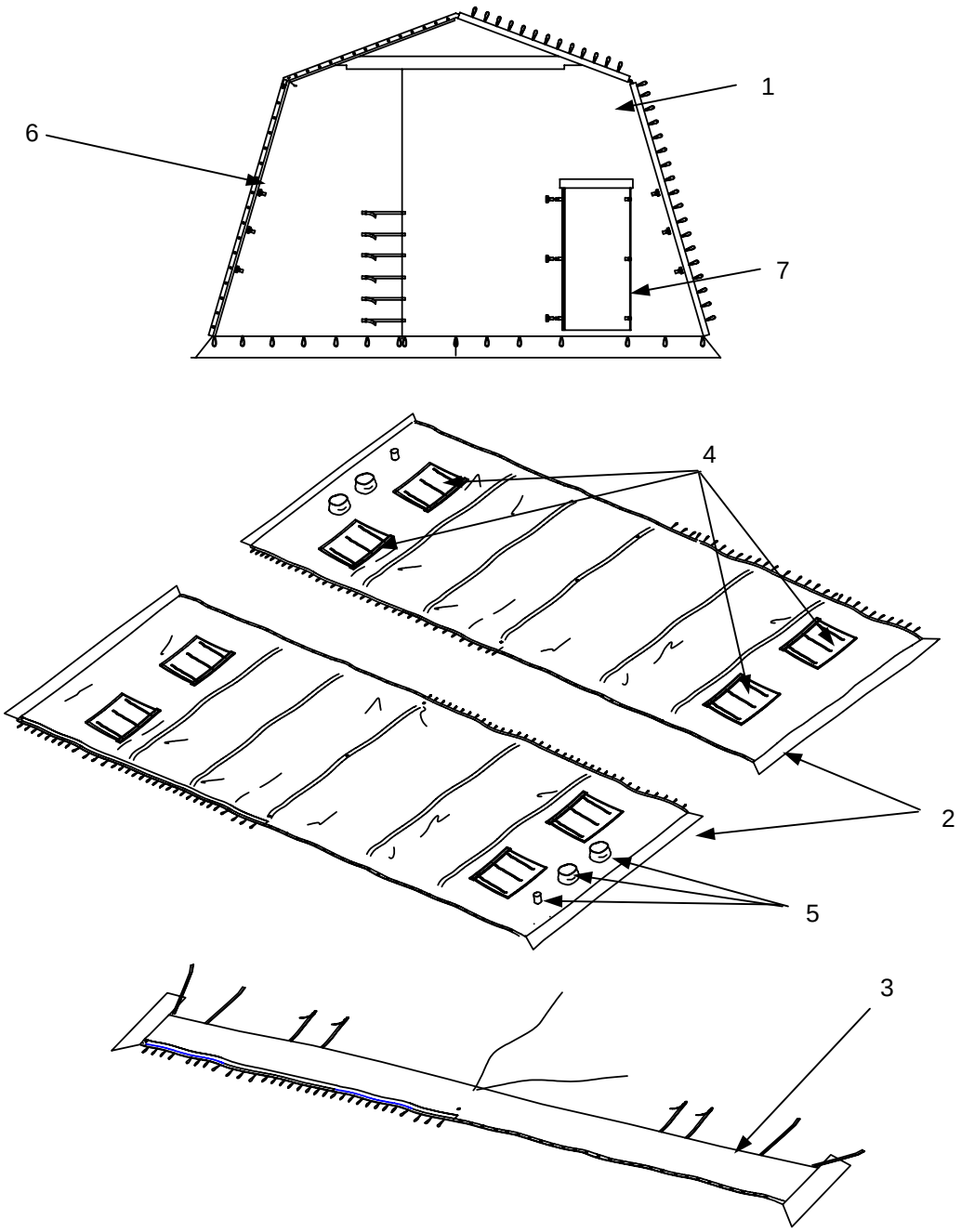
Extension Assembly (3) - The fabric extension assembly is made of the same flame resistant, mildew resistant, polyester material as the intermediate and end fabric panels. Its purpose is to connect the intermediate sections of two completed LMEs. The extension assembly is available as an additional item.

Windows (4) - Four rectangular windows are built into each intermediate fabric section. Each window consists of a screen section for ventilation and a clear plastic window panel that can be removed and replaced if damaged. The plastic window panel attaches by means of hook and loop fastener tape. A roll - down exterior flap, which is part of the intermediate fabric section, covers each window section making them weather proof and light secure.

Ducts (5)- Three ducts are built into each intermediate fabric section near ground level. Use the two large ducts to provide heating or ventilation and the small duct for external power cable access. The ducts can be closed using tie straps to make them weather proof and light secure.

Vehicle Access Door (6) - A large vehicle access door is built into each end fabric panel. This door is attached to the door header track, allowing the upper section of the door to slide. Secure the door in the open position using buckles that are attached to the end fabric panels. When closed, the vehicle access door is weatherproof and light secure.

Personnel Access Door (7) - A smaller personnel access door is also built into each end fabric panel. This allows access into the structure without opening the large vehicle door. The personnel access door is secured with hook and loop fasteners, making it weatherproof and light secure.



Upper Arch Assembly (1) - The upper arch assembly forms the ridge of the structure. It folds for storage and has a built-in ridge post for securing the grommet of the intermediate fabric panel.

Lower Arch Assembly (2) - The lower arch assembly forms the eave section of the structure. It plugs into the lower end of the upper arch assembly and is secured with the attached quick release pin. The hinged portion has a built-in eave post for securing the eave grommet on the intermediate and end fabric panels.

Lower Leg Assembly (3) - The lower leg assembly plugs into the lower end of the lower arch assembly and is secured using the attached quick release pin. The footpad has a stud, which is pressed, into the ground to help stabilize the structure.

Purlin Assembly (4) - The Purlin Assemblies are made of tubular aluminum approximately 96 inches long and 1 1/2 inches in diameter. U shaped brackets are riveted near each end of the purlin. These provide a hinge point for the folding braces that lock the purlin to the arch frame assembly. At the end of each folding brace is a rotating shackle that is inserted into a matching hole in the arch frame assembly.

Door Header Assembly (5) - The door header assembly is used to strengthen the arch frame assembly and to mount the vehicle access door. It is secured using the attached quick release pins.

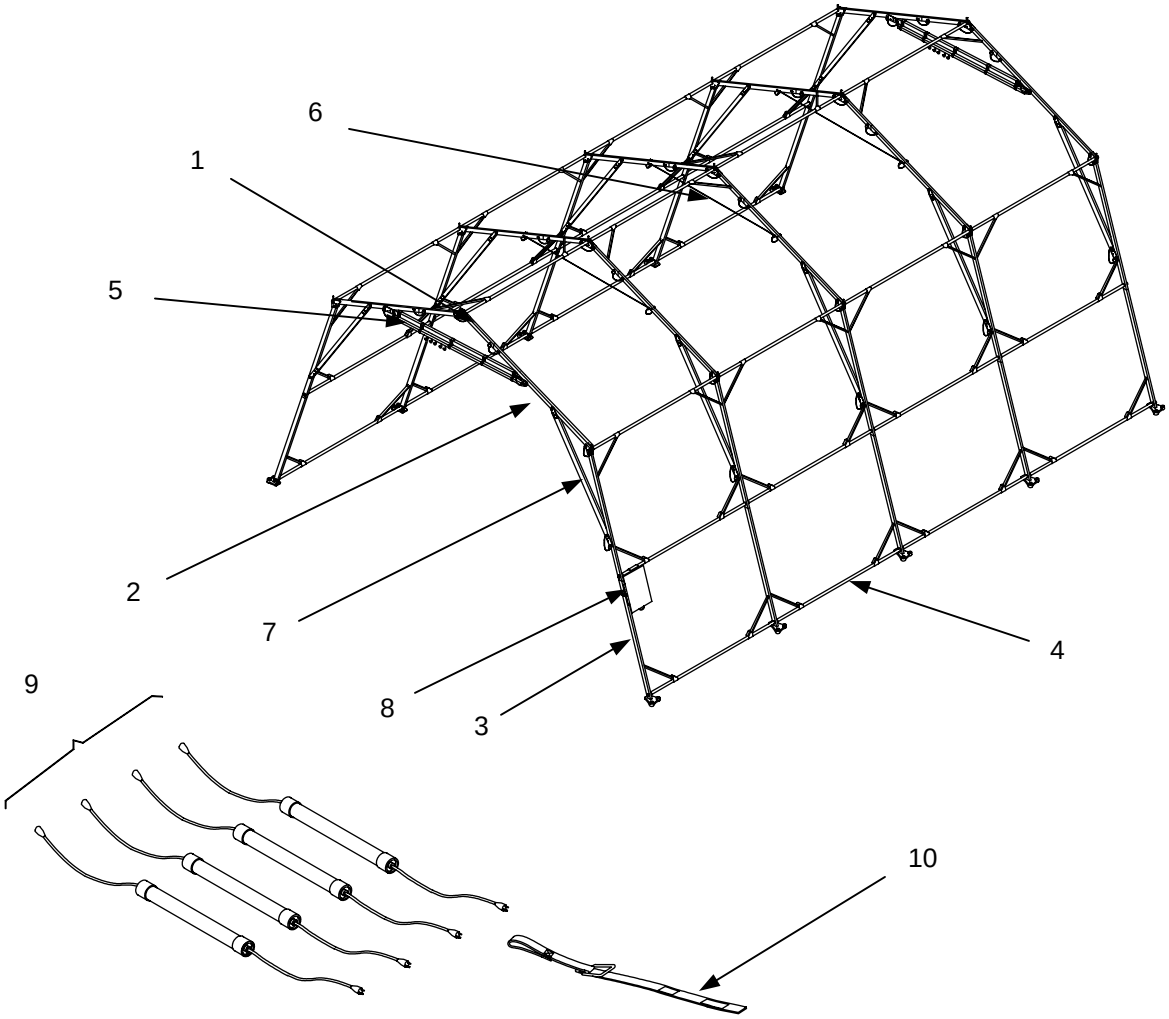
Cable Header Assembly (6) - The cable header assembly is made from stranded steel cable with steel fittings at the ends. It is used to strengthen the remaining arch frame assemblies and is secured with quick release pins.

Side, Assembly (7) - The side assemblies add strength to the eave sections of the structure. The upper slotted end of the side is installed over the pins on the arch frame assembly and the side is swung outward. When the holes in the side align with the holes in the arch frame assembly, it is secured with the attached quick release pin.

Power Distribution Box (8) - The box is mounted on the frame structure and brings external power into the LME. The power distribution box contains a lighted switch, which controls the light string. Four ground fault protected convenience outlets have separate circuit breakers. A 25-ft extension cord is provided to connect the lights to the Power Distribution Box. A 10-ft extension cord is provided to connect power tools.

Assembly, Light Kit (9) - Four fluorescent lights are provided with the LME. Each light consists of a fluorescent bulb mounted in a reinforced plastic tube with a molded cap and cable assembly at each end. The lights are suspended, one to each bay, using the eight light support straps provided.

Light Support Strap Assembly (10) – Eight light support straps are provided with the LME. Each strap consists of a looped end, loop strap fastener, and hook and loop fastener. The light support straps are secured to the ridge purlin and suspend the lights in place.



DIFFERENCES BETWEEN MODELS

The LME Type I, Type II, or 8-ft Extension Assembly kit may be provided in Monotone Camouflage Green 483 (Class I) or Monotone Desert Tan 459 (Class II, US Air Force). Fabric color will have no effect on operation or maintenance.

The Type II LME is configured to house the Laundry Advanced System (LADS), and has appropriate vents in the intermediate fabric sections to meet the operational requirements of the LADS.

The 8-ft Extension Assembly kit consists of an additional 8-ft fabric section added to the LME to provide a 40 foot long enclosure. The 8-ft fabric section, additional frame members, guy lines and tent stakes are provided in a kit form and packed in a plywood container.

EQUIPMENT DATA

The following tables provide dimensions, weight, cube, and operational, electrical and mechanical aspects of the Lightweight Maintenance Enclosure (LME), Type I, Type II and the 8-ft Extension Assembly kit.

Table1. Equipment Data for the LME Type I.

Item	Dimensions	Weight (lbs)/Cube (ft^3)	Lift Limit
LME Type I	Height (at Eaves) 11-ft 8-7/8-in. Height (at Ridge) 15-ft 1-in Width (at Base) 23-ft 11-5/16-in. Length (at Base) 32-ft	1659/109 (Crated) 1339/109 (Uncrated)	
Frame Transport Covers	Frame Transport Covers vary in size from 8 to 11 inches in width, and a maximum length of 96 inches.	78	2 persons
Cover No.1		149	8 persons
Cover No.2		149	8 persons
Cover No.3		149	8 persons
Cover No.4		149	8 persons
Cover No.5		153	8 persons
Fabric Transport Covers	9-ft 8-1/2-in. x 8-ft 8-1/2-in.		
Cover No.1		208	8 persons
Cover No.2 w/repair kit		212	8 persons
Power Distribution Box		16	1 person
Power Requirements	110 VAC 50/60 Hz		
Assembly, Light Kit, 4 ea	35 x 3-in.	5 lbs/0.197 cube	1 person

Table 2. Equipment Data for the LME Type II.

Item	Dimensions	Weight (lbs)/Cube (ft^3)	Lift Limit
LME Type II	Height (at Eaves) 11-ft 8-7/8-in. Height (at Ridge) 15-ft 1-in. Width (at Base) 23-ft 11-5/16-in. Length (at Base) 32-ft	1659/109 (Crated) 1339/109 (Uncrated)	
Frame Transport Covers	Frame Transport Covers vary in size from 8 to 11 inches in width, and a maximum length of 96 inches.	78	2 persons
Cover No.1		149	8 persons
Cover No.2		149	8 persons
Cover No.3		149	8 persons
Cover No.4		149	8 persons
Cover No.5		153	8 persons
Fabric Transport Covers	9-ft 8-1/2-in. x 8-ft 8-1/2-in.		
Cover No.1			
Cover No.2 w/repair kit			
Power Distribution Box			
Power Requirements	110 VAC 50/60 Hz		
Assembly, Light Kit, 4 ea	35 x 3-in.	5 lbs/0.197 cube	1 person

Table 3. Equipment Data for the 8-ft Extension Assembly Kit.

Item	Dimensions	Weight (lbs)/Cube (ft^3)	Lift Limit
8-ft Extension Assembly Kit	Height (at Eaves) 11-ft 8-7/8 in. Height (at Ridge) 15-ft 1in. Width (at Base) 23-ft 11-5/16 in. Length (at Base) 40-ft		
Tent Frame Bag		130	4 persons
Tent Fabric Cover		212	8 persons
Tent Pin Bag		16	1 person
8-ft Fabric Section			
Purlin			
Upper Arch Assembly			
Lower Arch Assembly			
Lower Leg Assembly			
Cable Header			
Assembly, Light Kit			
Tent Fabric Cover			
Tent Frame Bag			
Tent Pin Bag			
Tent Stake, Wood 16 in.			
Tent Stake, Wood 24 in.			
Tent Pin, Steel 18 in.			
Guy line w/slip, 14-ft 1-in.			
Guy line, w/slip 23-ft 1-in.			
Foot stop			
Plywood container			

EQUIPMENT CONFIGURATION

Its modular construction allows the LME to be set up as a single unit, or in multiple units, using the fabric Extension assembly to cover the area between each structure.

COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE), CTA 50-970, Expendable/Durable Items (Except: Medical, Class V, Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items, as applicable to your unit. Repair parts are listed and illustrated in Work Package 0036 00 to 0046 00 of this manual.

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637, TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867, TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
THEORY OF OPERATION

The LME is a self-contained portable enclosure intended to accommodate wheeled and tracked vehicle field maintenance operations. It is a frame-supported enclosure that is erected without the use of special tools. A system of guy ropes and tie-downs enhances structure stability in high winds. Access to the structure is gained through a vehicle door or a personnel door at each end.

The fabric is coated white on the inside to enhance light distribution, and on the outside woodland green or desert tan for camouflage and low visibility. The structure, when properly closed, is light secure and weather proof. Duct connectors incorporated into the side walls near ground level allow heating or air conditioning duct attachment as required, or can be closed when not used.

Windows on each side of the structure can be opened for ventilation, leaving a screen in place, or can have a clear plastic section installed using hook and pile fasteners to admit daylight. A fabric cover on the outside of each window can be rolled down and secured using hook and pile fasteners to maintain light security.

The modular design of the LME permits combining of multiple structures to accommodate a variety of operational requirements and uses such as staging areas or as emergency shelter in disaster relief operations.

The frame structure consists of lightweight components that are locked together using attached quick release pins and turn-and-lock mechanisms. The components fold for storage and shipping in the transport covers provided. The arch frame assemblies consist of upper arch, lower arch and lower leg subassemblies that are locked together using attached quick release pins. The header and side assemblies provide lateral strength to the frame assemblies.

Purlins are used to space the arch frame assemblies apart. As each frame assembly is erected, the purlins are used to join them into self standing bays. The structure is completed when all the bays are standing. Door header assemblies are used at each end of the structure and cable header assemblies are used on the frame assemblies in the middle of the structure. Side assemblies provide strength to the eave sections of the arch assemblies.

Four fabric panels enclose the LME. Two large intermediate fabric panels form the roof section and are held together using becket lacing and hook and pile wind flaps for security. Two end fabric panels enclose the ends of the structure and provide access through vehicle or personnel doors. The vehicle access doors are secured open using buckles provided in the fabric panels.

External electrical power is provided to the LME through a power distribution box that is mounted on the frame structure. The distribution box contains a lighted switch to control the string of fluorescent lights that provide interior lighting. Four ground fault protected convenience outlets for power tool use have separate circuit breakers. The fluorescent lights are secured to the structure using the straps provided.

CHAPTER 2
OPERATOR INSTRUCTIONS
FOR THE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637, TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867, TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
DESCRIPTION AND USE OF OPERATOR CONTROLS AND INDICATORS

GENERAL

The following paragraphs contain illustrations that show the location of each control and indicator on the LME. Each control and indicator is clearly labeled as it appears on the equipment. Find numbers on the illustration are keyed to the tabular listing that contains the name of each control and indicator.

POWER DISTRIBUTION BOX CONTROLS AND INDICATORS

Table 1 describes the controls and indicators for the power distribution box.

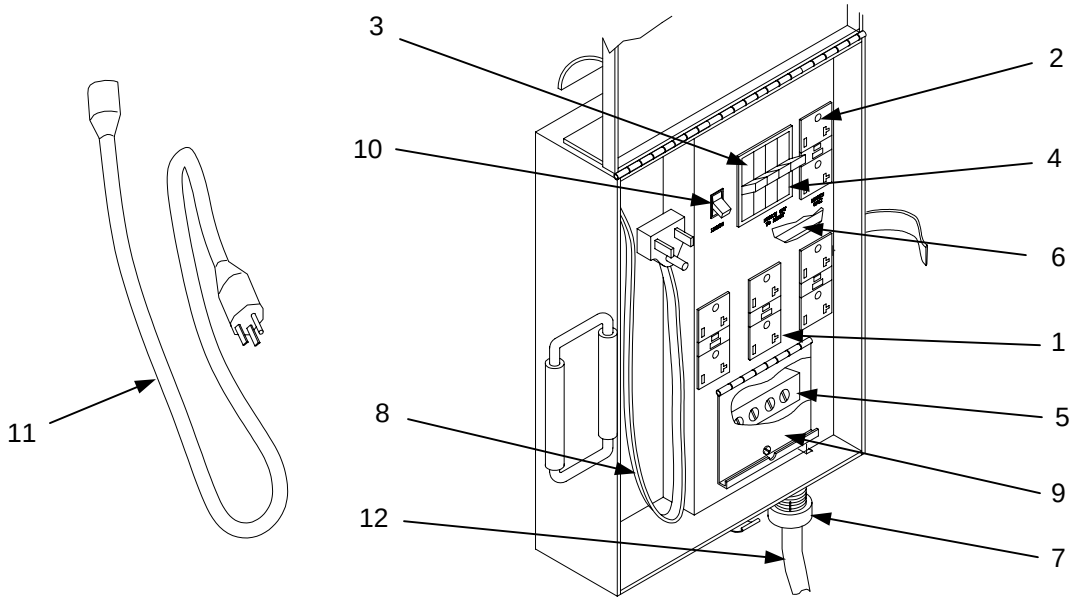


Table 1. Power Distribution Box Controls and Indicators.

Key	Control and Indicator	Function
1	Ground Fault Receptacle 20A 120 VAC (3)	Utility Receptacles
2	Ground Fault Receptacle 20A 120 VAC	Lights only Receptacle
3	Circuit Breaker 10A 120 VAC	Protects/Resets Lights only Receptacle
4	Circuit Breaker 20A 120 VAC (3)	Protects/Resets Utility Receptacles
5	H.D. Terminal Block 6P, 70A 600 v	Facilitates Connection of External Power
6	Neutral Block 70A 120 VAC	Facilitates Connection of External Power Neutral Wire
7	Cord Grip	Secures External Power Cord
8	Extension Cord 25-ft	Connects Lights to Power Distribution Box
9	Terminal Access Cover	Provides Access to the Box
10	Lighted Toggle Switch 15A 120 VAC	Turns Lights On and Off
11	Extension Cord, 10-ft	Power to auxiliary tools
12	Power Supply Cable	Provided by/with the Generator, not part of the System

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637, TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
OPERATION UNDER USUAL CONDITIONS

PACKING

The LME is shipped in separate transport covers and bags, each of which is labeled with its contents and lifting requirements. Always ensure that sufficient personnel are available for lifting and carrying the components. Refer to the applicable procedures in this manual or the panel illustration on the inside of the end fabric panels for assembly and setup procedures. Identify and inventory all components before beginning to set up the LME.

SITING REQUIREMENTS

During site selection for the LME the following considerations are relevant:

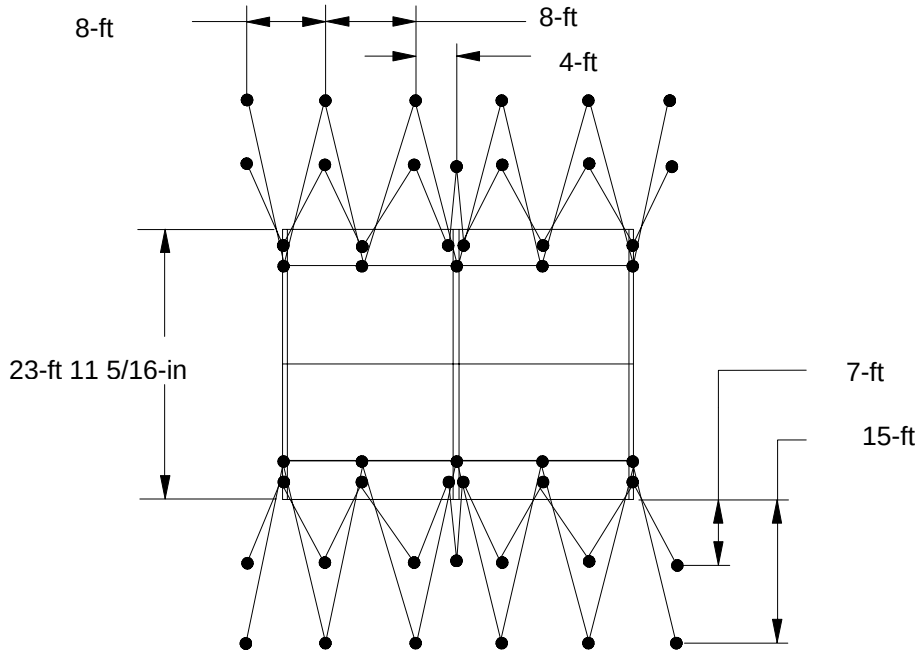
For example, when used as a maintenance facility, vehicle access and proximity to a roadway is important. However, when used as a troop assembly or billeting facility, concealment and other factors may be more important.

The site must be free of debris. The ground should be level, varying no more than 3-inches in 10-ft on unprepared soil.

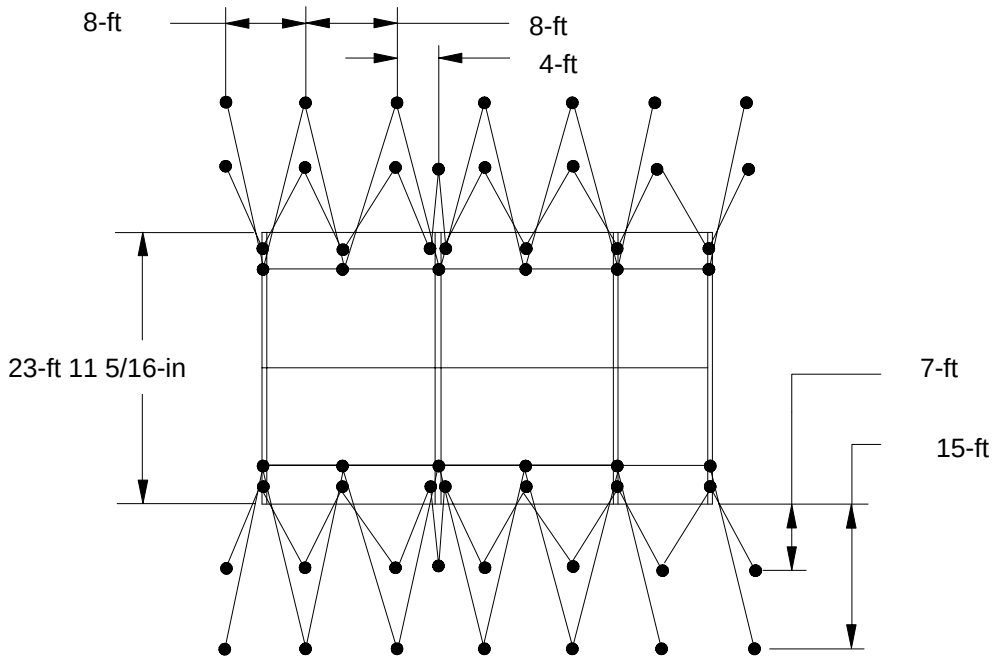
Choose a site that affords some protection from prevailing winds. The site should also be firm and dry, away from any potential flood areas and clear of trees that may create problems in high winds.

The LME Type I and Type II are 23-ft 11 5/16-in. wide at the base and 32-ft long, requiring an area approximately 40x40-ft (1600 ft^2) to erect the structure, not including the additional space required to place the stakes and guy lines and to maneuver the laundry, advanced system (LADS).

The LME with the 8-ft Extension Assembly kit implemented is 23-ft 11 5/16-in. wide at the base and 40-ft long, requiring an area approximately 40 x 50-ft (2000 ft^2) to erect the structure, not including the additional space required to place the stakes and guy lines as shown below.



LME Type I and Type II



LME Type I or Type II with 8-foot Extension kit Implemented

ASSEMBLY AND PREPARATION FOR USE

NOTE

When unpacking the fabric from the transport bags, ensure that all snap hooks on the end fabric panel assembly are secured in accompanying D rings.

Frame Assembly

WARNING

The frame hinge joints can pinch or crush hands or fingers. Use care when placing hands near these joints. Be careful when carrying components near other personnel. Failure to comply may cause serious injury to personnel.

1. Locate and identify one upper arch assembly **(1)**, two lower arch assemblies **(2)**, and one door header assembly **(3)**.

CAUTION

Do not twist or turn the frame components when handling them. Damage to equipment may result.

CAUTION

Ensure that the quick release pins on the upper and lower arch assemblies face toward the interior. Failure to do so may cause damage to the fabric.

2. Lock the upper arch assembly **(1)** into position using the attached quick release pin **(4)**. Align the white tape strips **(5)** that are attached to the upper arch assembly **(1)** and the lower arch assembly **(2)**.

3. Insert the tongue **(6)** of one upper arch assembly **(1)** into the leg **(7)** of one lower arch assembly **(2)** and lock it in place with the attached quick release pin **(8)**.

4. Unfold the lower arch assembly **(2)** but do not lock it into position at this time. Repeat this procedure for the other arch assembly **(9)**.

5. Repeat procedures 1 through 4 above for the remaining upper and lower arch assemblies. Then, lay the complete assemblies flat on the ground.

6. Starting at one end, lift the upper and lower arch assembly to a vertical position. Lift the end and next interior upper and lower arch assembly into a vertical position as well.

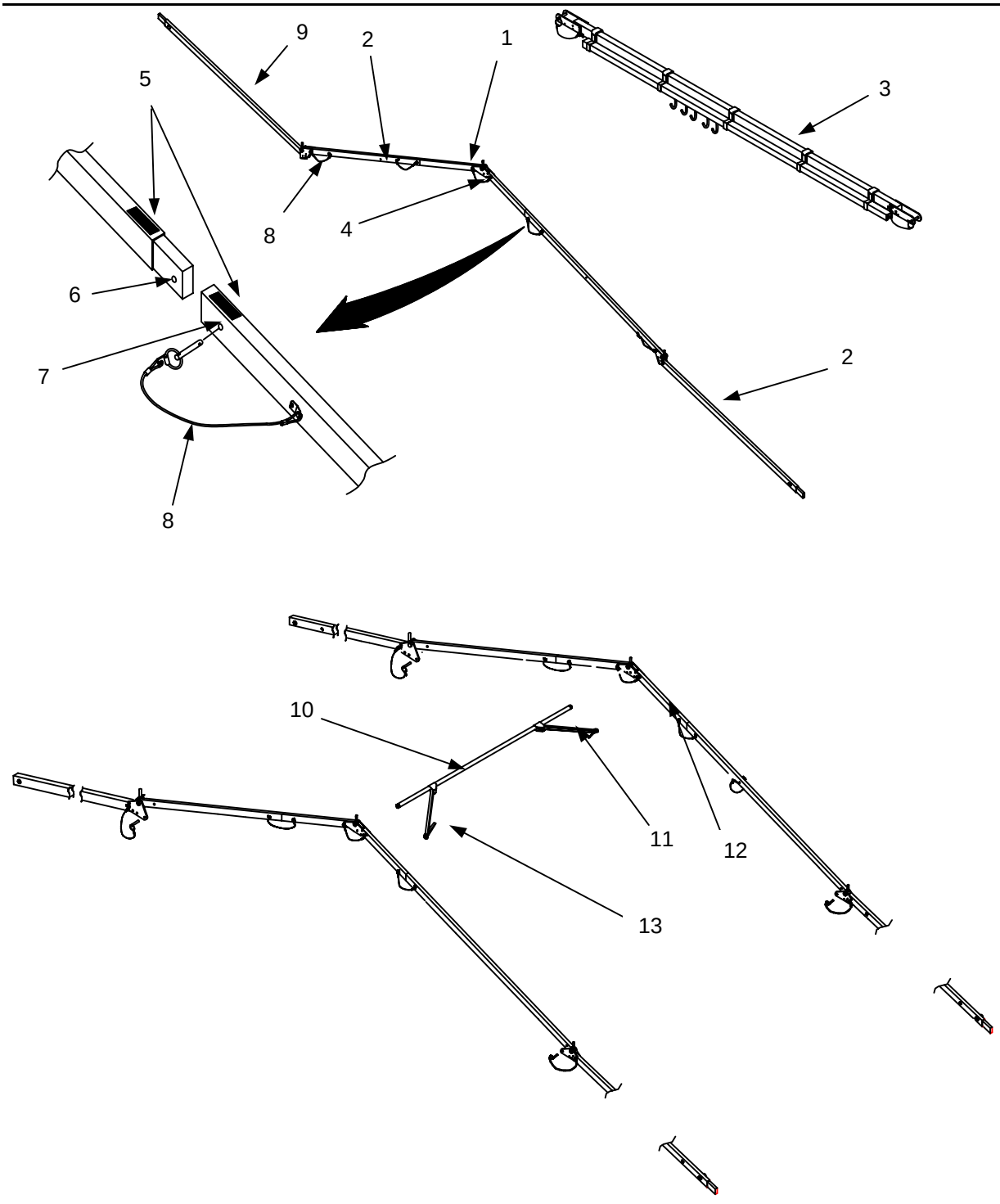
NOTE

Apply slight pressure to the purlin to align the holes. This will assist you in inserting the remaining end of the purlin.

7. Install one purlin **(10)** at the ridge between the two assemblies.

8. Unstrap the purlin's movable braces **(11)** and insert them into the notches **(12)** provided in the arch frame assemblies **(2)** using the rotating handles **(13)** to lock into place.

9. Install the remaining purlins to the rest of the upper and lower arch assemblies.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Door Header

CAUTION

When inserting the quick release pin, keep the rope on the same side of the frame. Failure to do so may damage equipment.

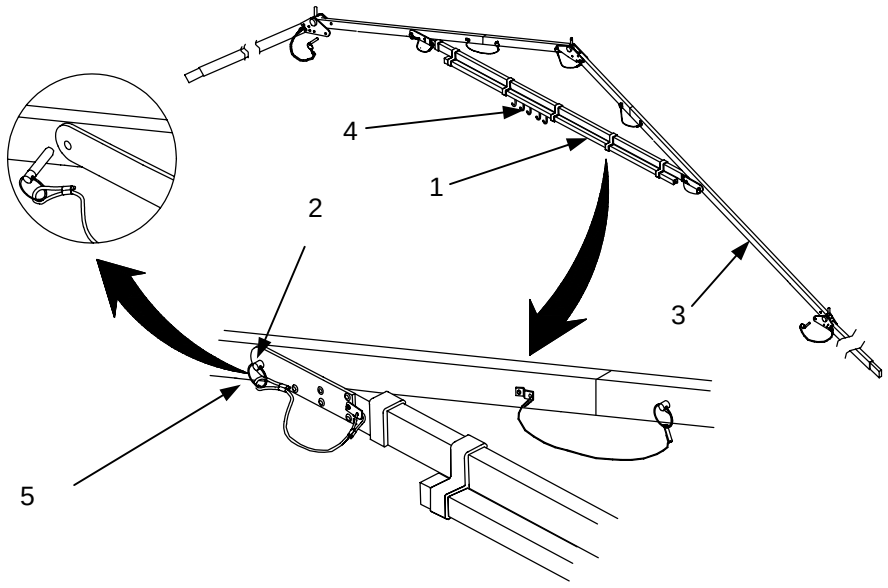
NOTE

Door headers are labeled ‘this side out’.

NOTE

Lift the upper arch assembly and align the holes to insert the door header assembly.

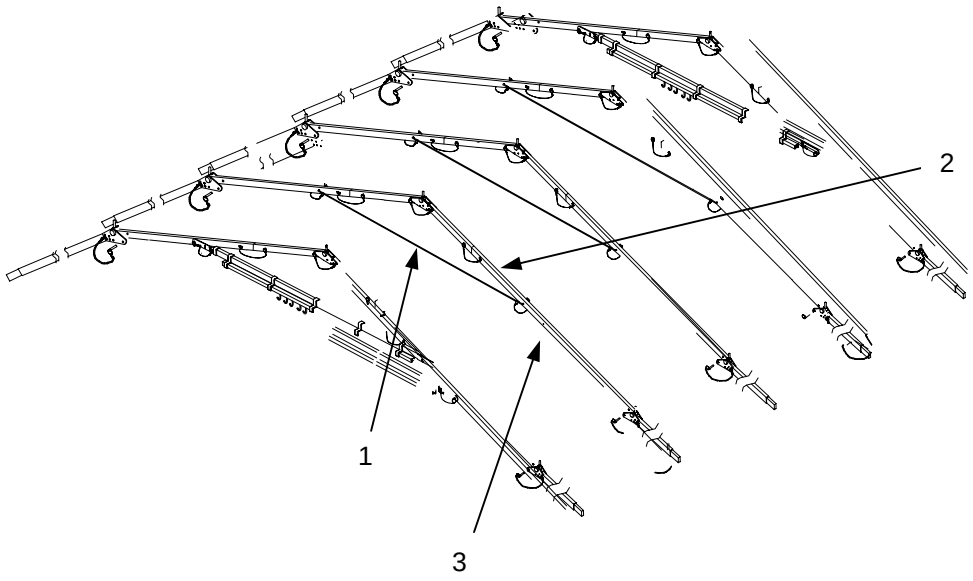
1. Install the door header assembly **(1)** by aligning its holes **(2)** with those in the lower arch assembly **(3)** with the carrier hooks **(4)** facing towards the outside of the LME.
2. Secure with the attached quick release pin **(5)**.
3. Repeats steps 1 and 2 for the opposite end of the LME.



Cable Header

1. Install a cable header assembly **(1)** into the lower arch assembly **(2),** and secure it with the attached quick release pins **(3).**

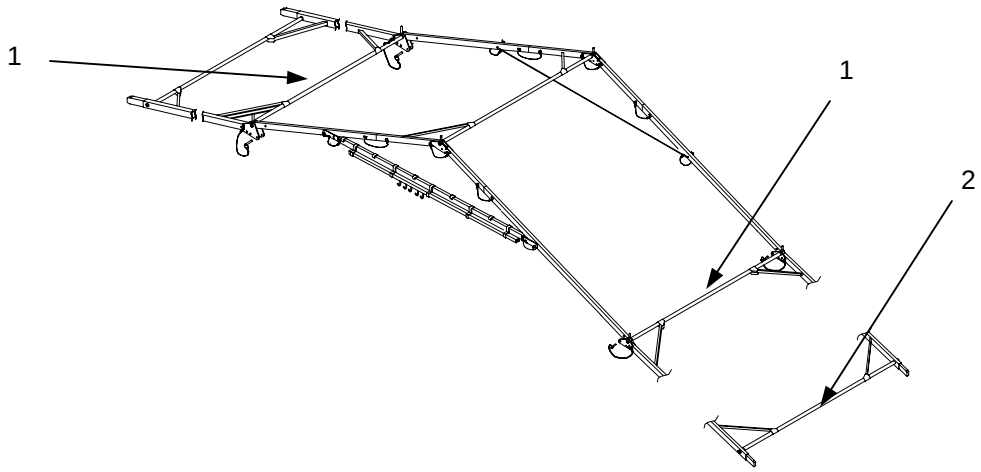
2. Continue this procedure until all three cable header assemblies are completed.



Installing the Purlins

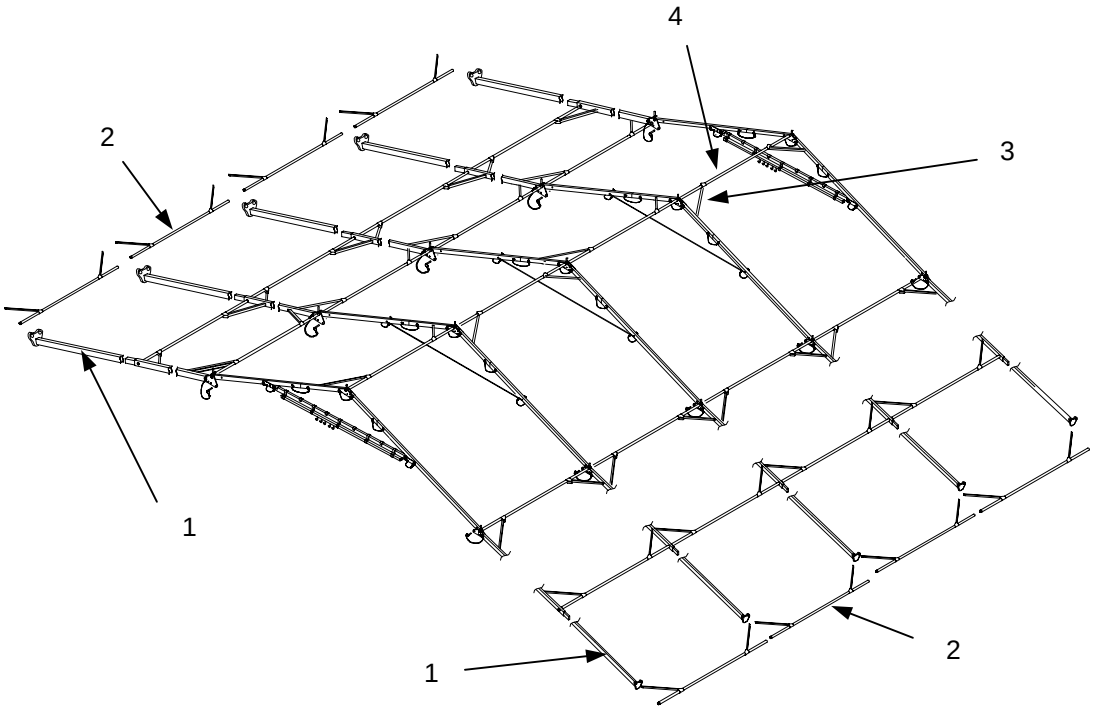
1. The purlins at the eaves **(1)** should be installed second, followed by the purlins at the mid-height location **(2).**

2. Apply slight pressure to align holes to insert the remaining end of the purlin.



Completing the Frame Assembly

1. Pre-position all lower leg assemblies **(1)** and purlin assemblies **(2)** as shown but do not attach them.
2. Alternate the purlin brace direction **(3)** on the ridge purlins **(4),** changing sides from bay to bay.



Intermediate Fabric Panel Installation

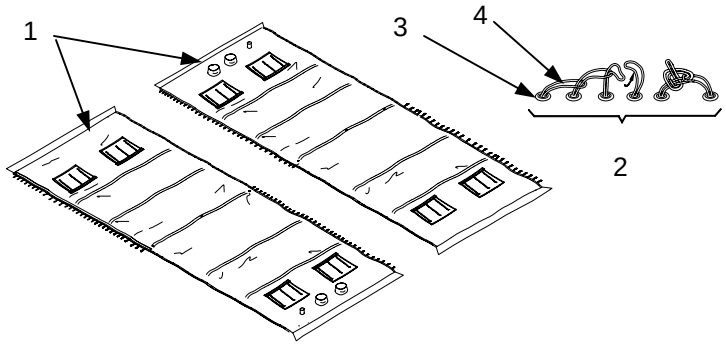
To lace the intermediate fabric panels together and place them on the frame, proceed as follows:

1. Place two intermediate fabric panels **(1)** close together on the ground as shown.

NOTE

If you are deploying an LME Type II in support of the LADS, refer to WP 0006, LME Type II, Operation Under Usual Conditions to install the intermediate fabric panel.

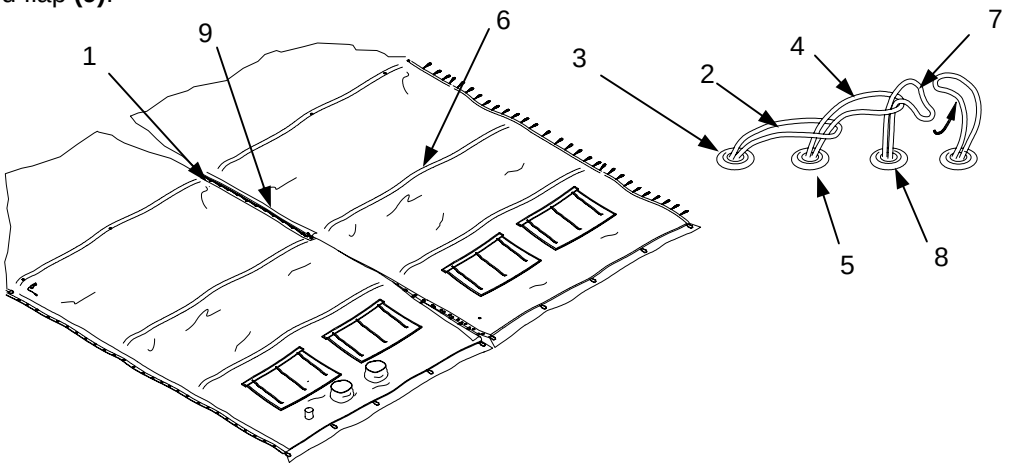
2. Lace the two panels together using the becket lacing method **(2).** This procedure requires alignment of the sewn-in grommets **(3)** in one fabric panel, with the sewn-in becket laces **(4)** in the fabric panel to be joined.



3. Beginning at the ridge **(1),** center large grommet, pull the first becket lace in one panel **(2)** through the aligned grommet **(3)** in the second panel. Then, grasp the second becket lace **(4)** and thread it through the grommet **(5)** and loop of the first becket lace **(2),** pulling it tight toward the eave **(6)**.

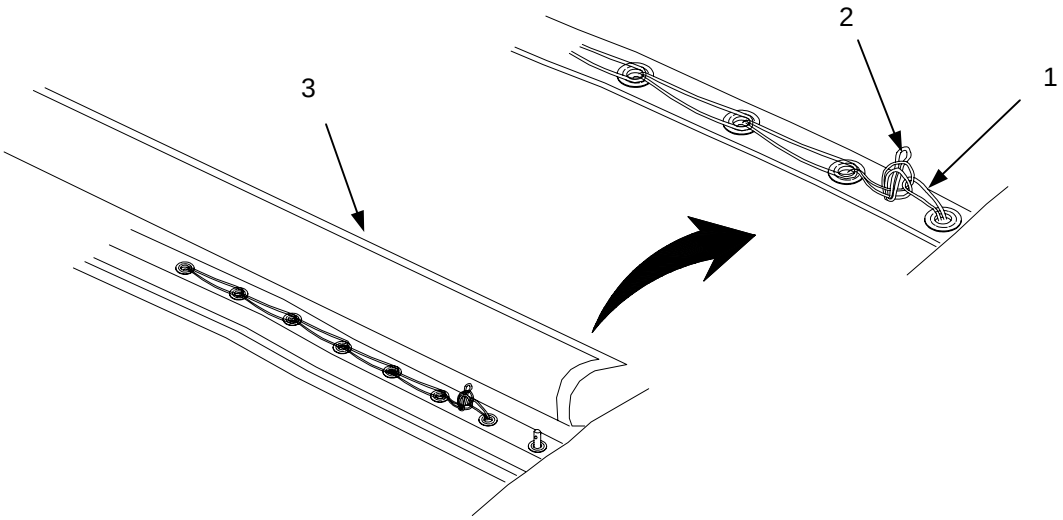
4. Grasp the third becket lace **(7)** and thread it through the aligned grommet **(8)** and the loop of the second becket lace **(4)** pulling it tight toward the eave **(6)**.

5. Continue this procedure until the eave **(6)** is reached. As the lacing progresses, close the hook and pile wind flap **(9)**.



6. Upon reaching the last becket lace **(1)**, insert the next-to-last becket lace **(2)** through the loop of the last becket lace **(1)**.

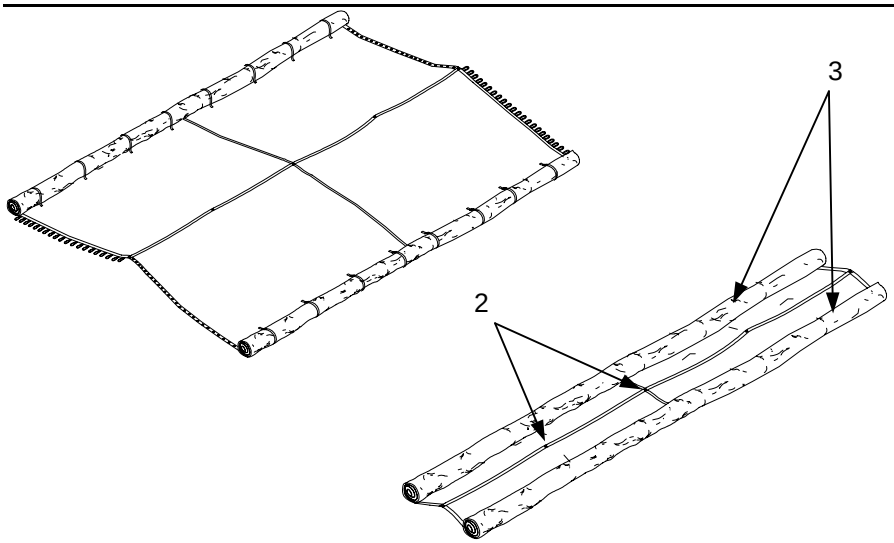
7. Pull the next-to-last becket lace **(2)** tight back toward the ridge and tie it off with a half-hitch knot. Seal the remaining section of the hook and loop wind flap **(3)**.



CAUTION

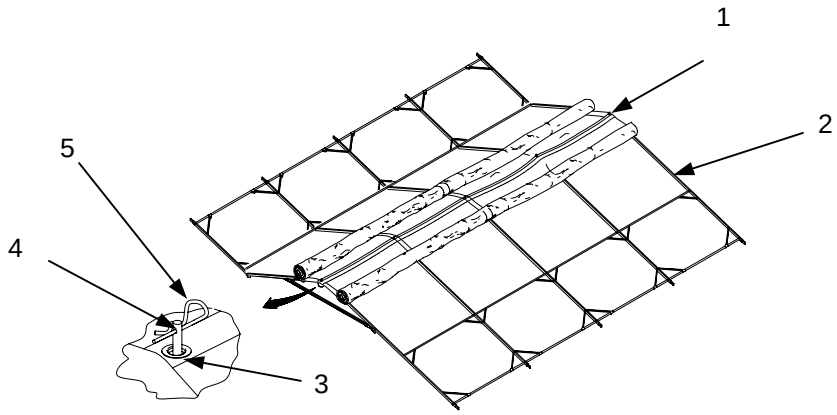
Be careful not to catch the window pane on the fabric panel. Failure to do so may tear the fabric.

8. Partially roll the assembly from both sides to mid-height, just above the windows. Buckle and secure the rolls. Continue rolling the assembly to the ridge so that the center grommets **(1)** are visible between the rolls **(2)**.



9. Gather personnel and, on command, lift the fabric assembly and carry it into position over the ridge **(1)**, stepping carefully through the frame **(2)**.

10. Place the ridge grommets **(3)** over the ridge posts **(4)** and secure with hitch clip pins **(5)** attached to the fabric assembly.



11. Unroll the fabric uniformly toward the eaves until the eave grommets align with the eave posts.

12. Pull the fabric away from the eaves to avoid pinching the fabric and secure with hitch clip pins attached to fabric assembly.

End Fabric Panels

Place one end fabric panel near the end of the structure.

1. Remove the hitch clip pins **(1)** on the end arch assemblies and lift the intermediate fabric panel center grommet **(2)** off the ridge post **(3)**.

2. Place the end fabric panel center grommet **(4)** over the ridge post **(3)**, and secure it with the attached hitch clip pin **(1)**.

3. Repeat the procedure at both eaves.

NOTE

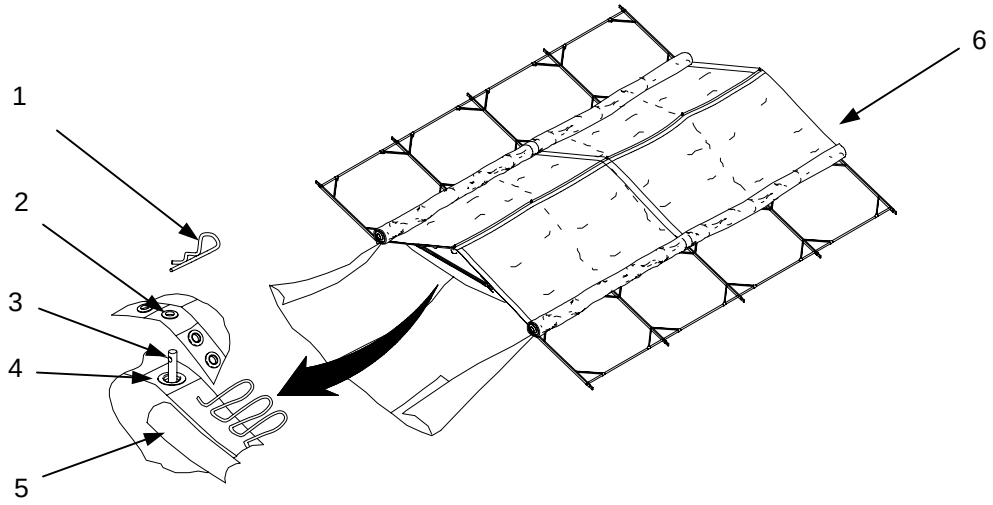
Ensure the becket lacing is not twisted. Do this by running your finger through the length of the lace.

4. Begin lacing the End Fabric Panel to the Intermediate Fabric Panel, starting at the ridge and proceeding toward the eaves, closing the weatherseal flap **(5)** as the lacing progresses.

5. When lacing the last loop, insert the last loop in the next-to-last loop. Pull the becket lace to tighten and tie it off using a half-hitch knot.

6. Secure the intermediate and end panels with a hitch-clip pin.

7. Repeat the procedure at the other end of the structure **(6)**.



Lifting the Structure

WARNING

To carry the fabric assemblies and raise the frame structure requires 12 persons lifts should be done on command, using proper lifting techniques to prevent injury to personnel. Serious injuries may result if less than 12 persons attempt these tasks.

CAUTION

Ensure all quick release pins in the lower arch assemblies are disengaged before lifting. Keep material clear of hinge joints during lifting. The structure must be lifted uniformly. Do not twist or turn frame components when handling.

To raise the LME to its full position, gather personnel and coordinate procedures, then proceed as follows:

LIFT 1

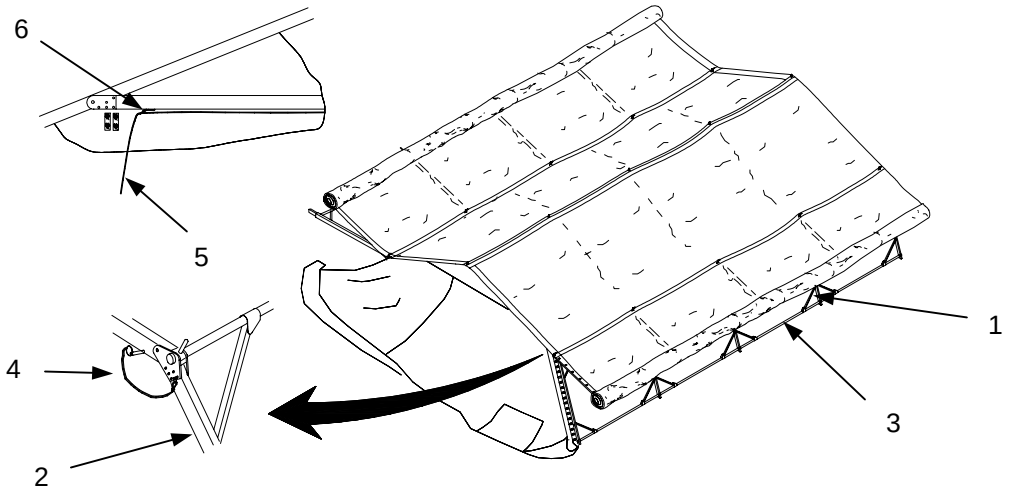
1. Place personnel outside the structure, two at each arch frame assembly **(1)** and two available to swing the lower arch assemblies **(2)** out.

2. Grasp the purlins **(3)** near the arch frame assemblies **(1)** for safety.

3. On command, lift one side of the structure and swing the lower arch assemblies **(2)** out, locking them into position with the attached quick release pins **(4)**.

4. Place the five grommets in one vehicle door section over the five carrier hooks in the door header. Repeat for the other vehicle door section.

5. Thread the braided draw cord **(5)** attached to the inner door section through the D ring **(6)** on the underneath side of the door header. Repeat at the other end of the structure.



NOTE

If setting up the LME Type II in support of the LADS, do not set up the lights yet.

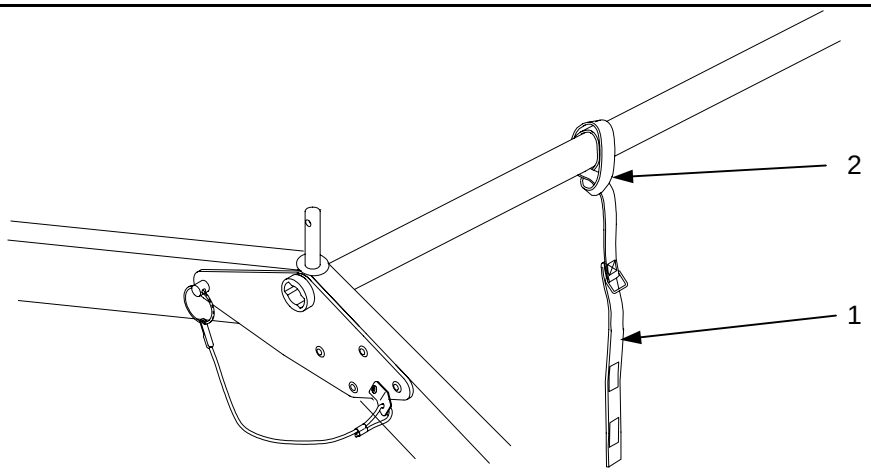
Lighting
To install the lights, proceed as follows:

1. Install the light support straps **(1)** by laying the looped end over the ridge purlin.

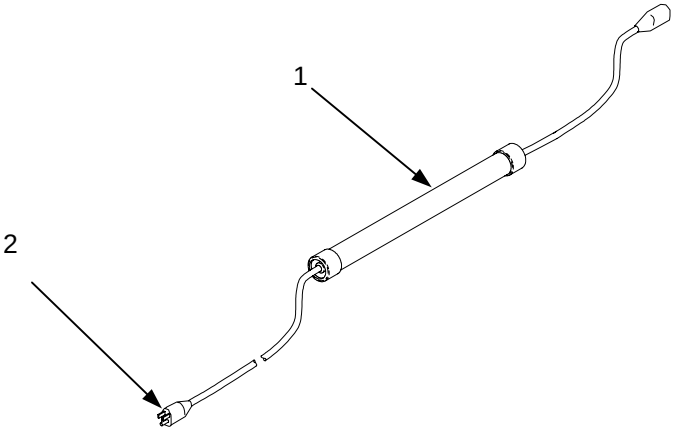
2. Insert the free end through the large loop **(2)** and let the free end hang.

3. Repeat the procedure for the second strap.

4. Repeat the procedure for the remaining three bays.

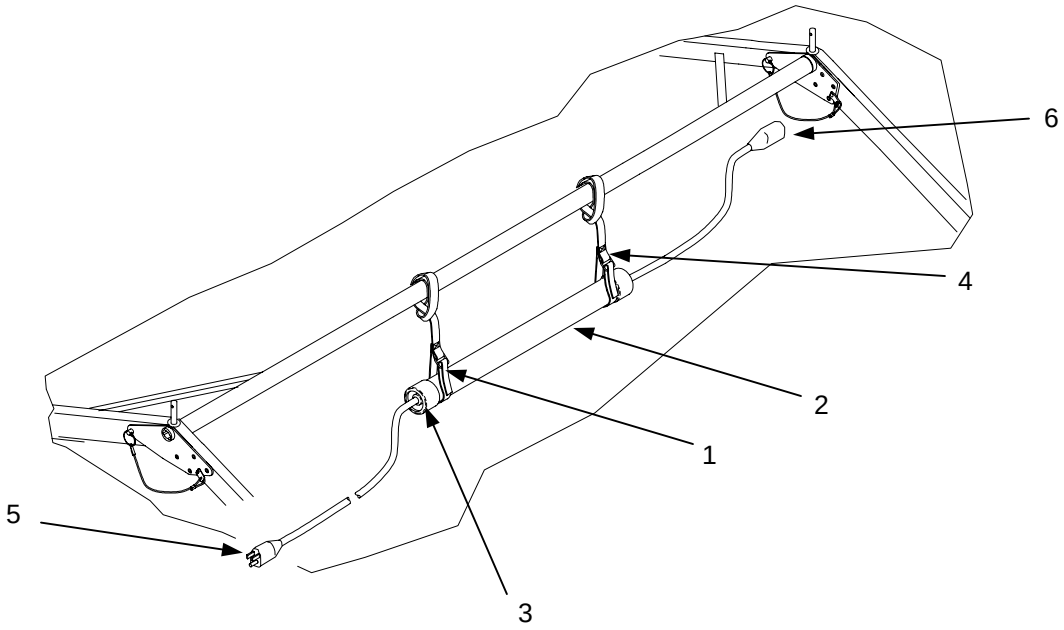


5. Position the lights **(1)** with the male plug end **(2)** closest to the personnel door.

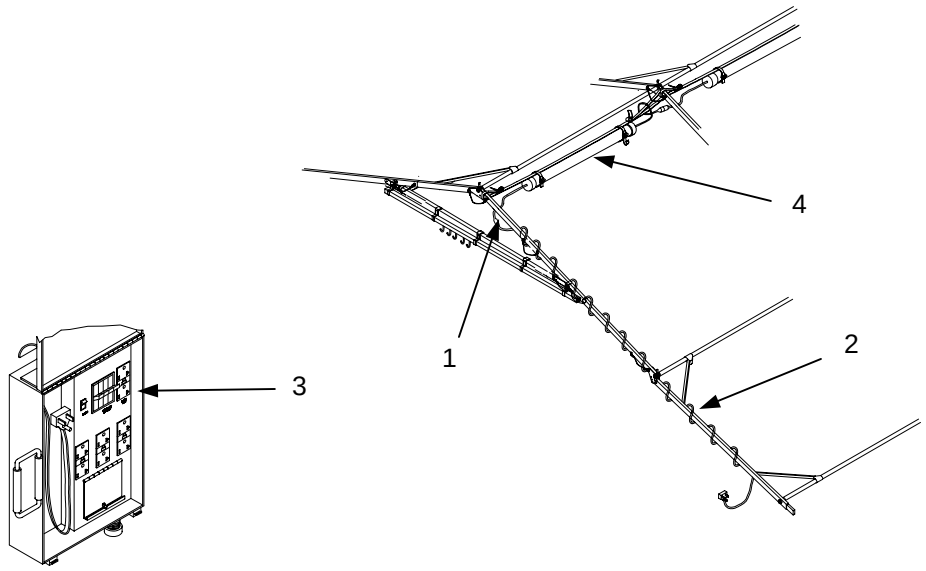


6. Wrap the free end of the light support strap **(1)** under each end of the light **(2),** inside the rubber end cap **(3).** Pass the free end through the loop strap fastener **(4)**, and engage the pile fastener.

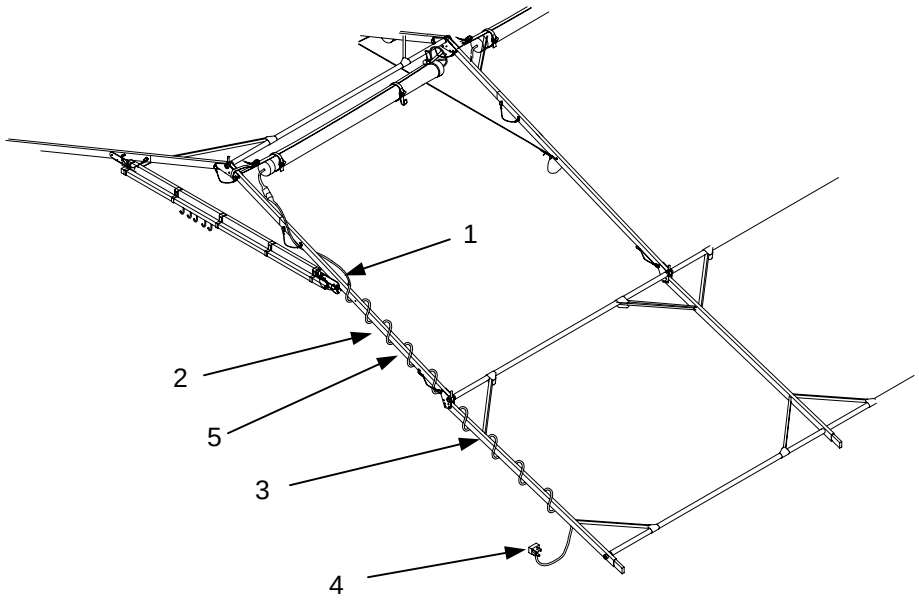
7. Mount the remaining lights, properly connecting the plugs **(5)** to the receptacles **(6)**.



8. Connect the receptacle **(1)** from the 25-foot cord **(2)**, stored in the power distribution box **(3)**, to the male plug of the light unit 1 **(4)**.

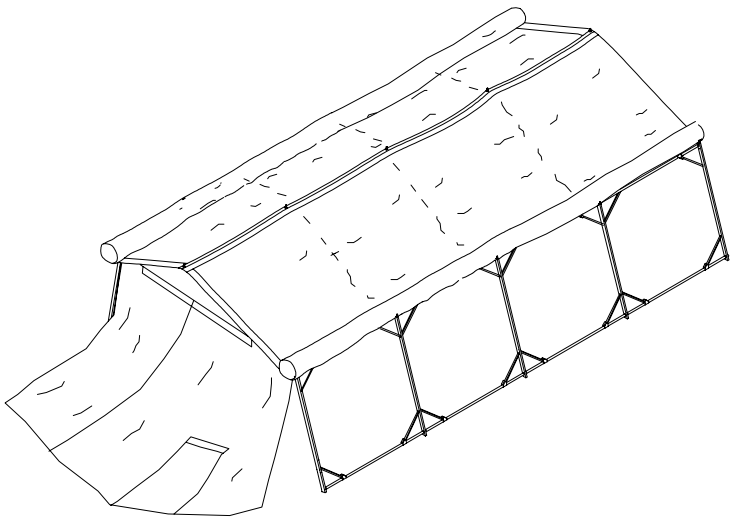


9. Wrap the 25-ft cord **(1)** around the end arch frame assembly **(2)**, moving outward and down the outer leg **(3)**, leaving the plug **(4)** no more than 4 feet from the ground when the LME is fully erected. When facing the entrance, this must be on the right side of the frame assembly **(5)**.



LIFT 2

1. Gather personnel at the other side of the structure and repeat the steps described in LIFT 1.



2. Install all side assemblies **(1)** by sliding the upper, slotted end **(2)**, over the pins **(3)** provided, and rotating the bottom end **(4)** out until the holes **(5)** in the side assemblies **(1)** align with the holes **(6)** in the arch assemblies.

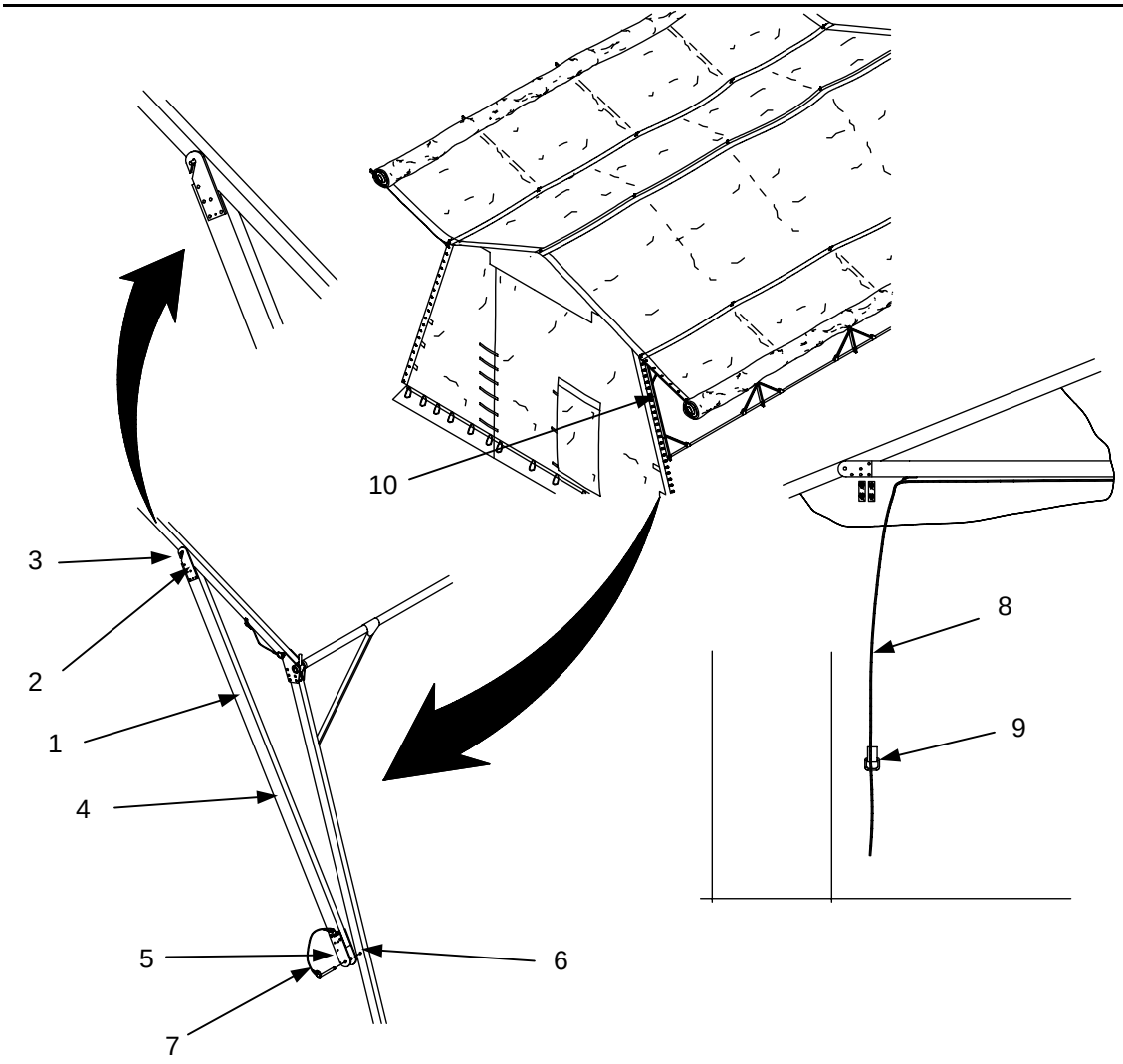
NOTE

If setting up the LME Type II in support of the LADS, leave off the three interior side assemblies on the opposite side of the vents. The two side assemblies on the ends are installed.

3. Thread the braided cord **(8)** through the D ring **(9)** attached to the inside of the door section near the personnel door.

4. Lock the side assemblies **(1)** in place using the attached quick release pins **(7)**. Ensure that the intermediate fabric panels on both sides are lowered to mid-wall height.

5. Continue lacing toward the ground at the corners of the structure, closing the weatherseal flap **(10)**.



LIFT 3

NOTE

Ensure that the white tape strips on the lower leg assemblies are aligned prior to installation.

1. Gather personnel on the exterior of the structure, two at each arch assembly as previously described.

2. On command, lift one side of the structure. Install the lower leg assemblies **(1)** with any and all personnel available, and lock them in place using the attached quick release pins **(2)**.

3. Starting at one end, install the purlins **(3)** at the base of the lower leg assemblies **(1)** as shown.

4. Unroll the intermediate panel fabric **(4)** onto the ground, and finish lacing the end wall panels **(5)** to the intermediate panels **(4)**.

LIFT 4

1. Gather personnel at the other side of the structure and repeat the steps as described in lift 3.

NOTE

If setting up the LME Type II in support of the LADS, do not use the power distribution box. Power from the LADS will be used.

2. Hang the power distribution box **(7)** onto the mid-height horizontal purlin adjacent to the personnel door and near the 25 foot cord.

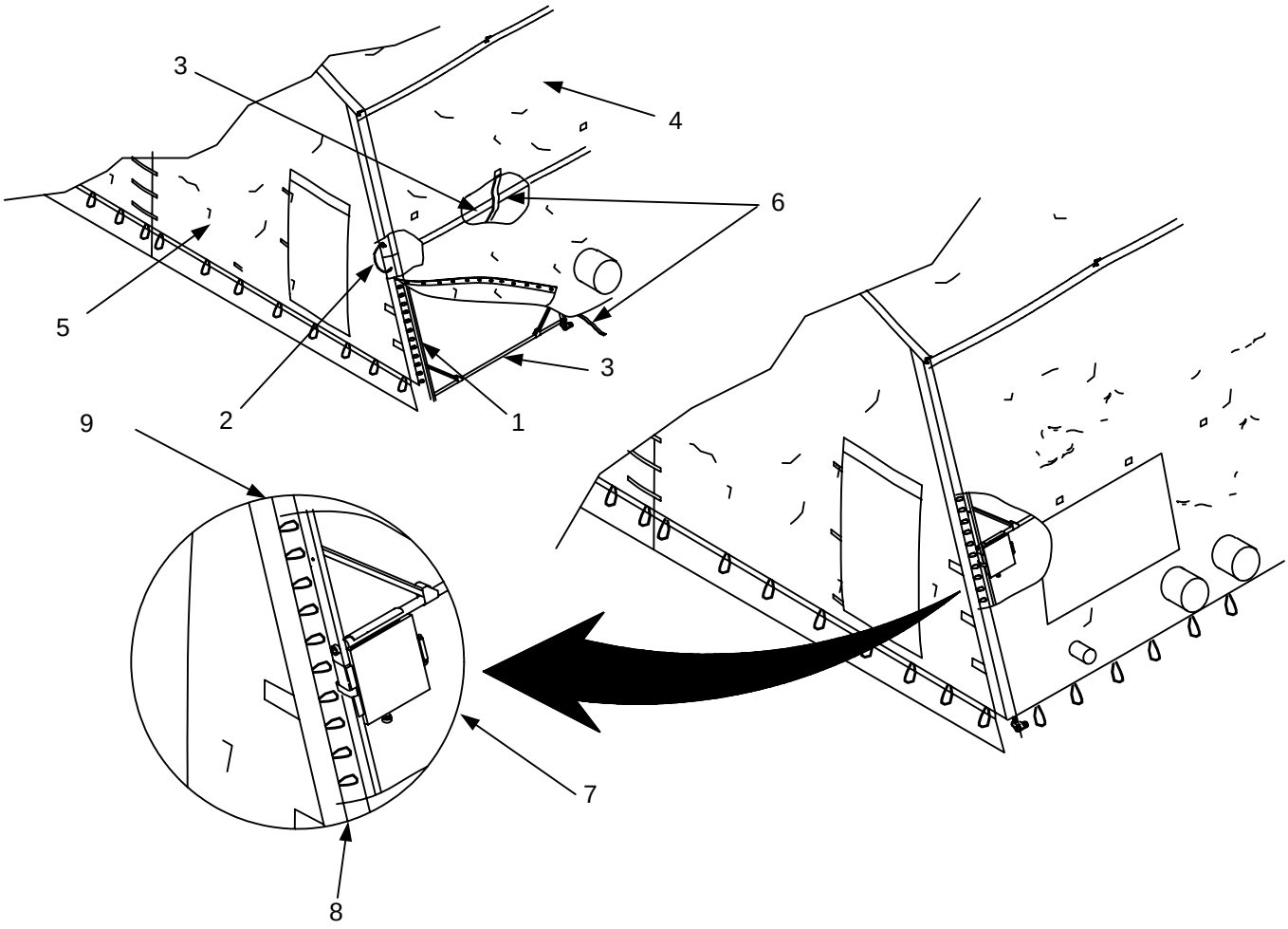
3. Open the side strap **(8).** Slide the box to the right until the side bracket **(9)** wraps around the vertical leg of the frame. Secure the side strap **(8).**

NOTE

Measure the width of the LME at the end fabric panels using the base of the structure as a guide. The base width of the LME should be 23-ft 11 5/16-in apart. If the LME is not this distance apart, the LADS will not fit correctly in the tent.

4. When properly erected, the LME should measure 23-ft 11 5/16-in wide at the base, measured from the outside of the left arch assembly to the outside of the right arch assembly.

5. Complete the lacing at the corners of the structure and wrap the interior straps **(6)** (attached to the interior of the Intermediate Fabric Section), around the purlins **(3),** to secure the fabric to the frame.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Staking the Structure

NOTE

If you are setting up the LME Type II in support of the LADS, do not stake the structure until the LADS has been positioned in the LME. Refer to WP 0006 00, LME Type II, Operation Under Usual Conditions, to continue setting up the Type II.

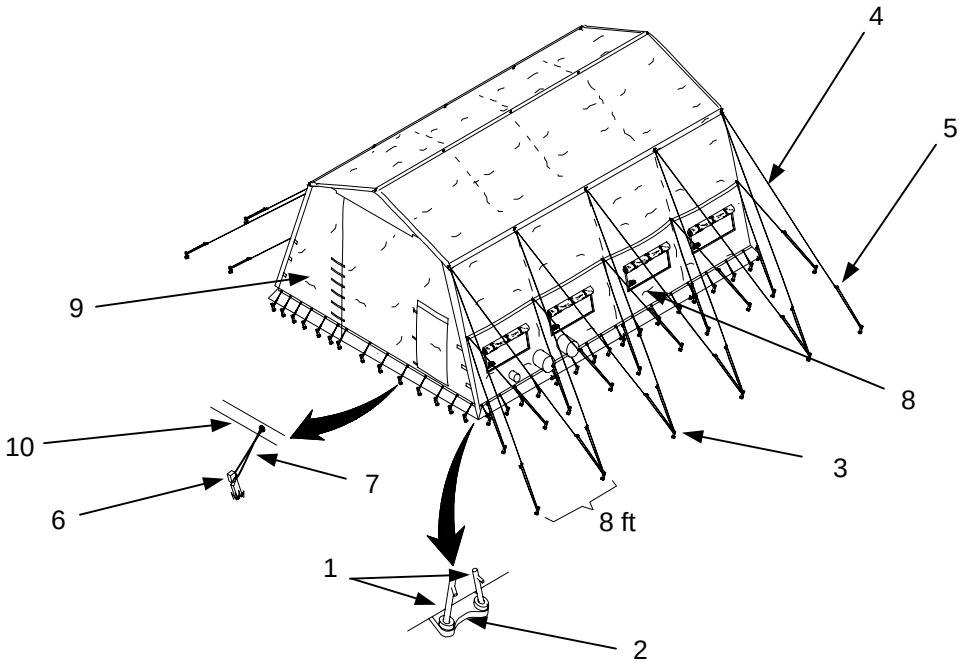
LME system performance depends on correct placement of the arch feet, the use of all guy lines, proper staking and maintenance of guy line tension. The LME should measure 23-ft 11 5/16-in. measured outside to outside at the base of the lower legs. To properly stake the structure, see “Siting Requirements” in WP 0005 00 and proceed as follows:

1. Install two steel pins **(1)** in each of the arch frame feet **(2)** to secure the structure to the ground, leaving 1 to 2 in. of the pin exposed for ease of removal.

2. Install 24-in. wooden stakes **(3)** as directed and attach guy lines **(4)** and tent slips **(5)**.

3. Install 16-in. wooden stakes **(6)** through the foot loops **(7)** on the base of the intermediate fabric panels **(8)** and along the end wall **(9)**.

4. Fold the sod cloths **(10)** toward the inside of the LME and cover them with dirt or sand to help prevent entry of insects and rodents. This will also prevent light from escaping during night operation.



Extension Assembly
The extension assembly joins two LMEs. If you are authorized to use the extension assembly, refer to the Additional Authorization List in WP 0049 00 for more information.

1. Ensure that the site for the new LME is clear, level and free of debris.

2. Erect the new LME as near as possible to the existing one, allowing working space for personnel.

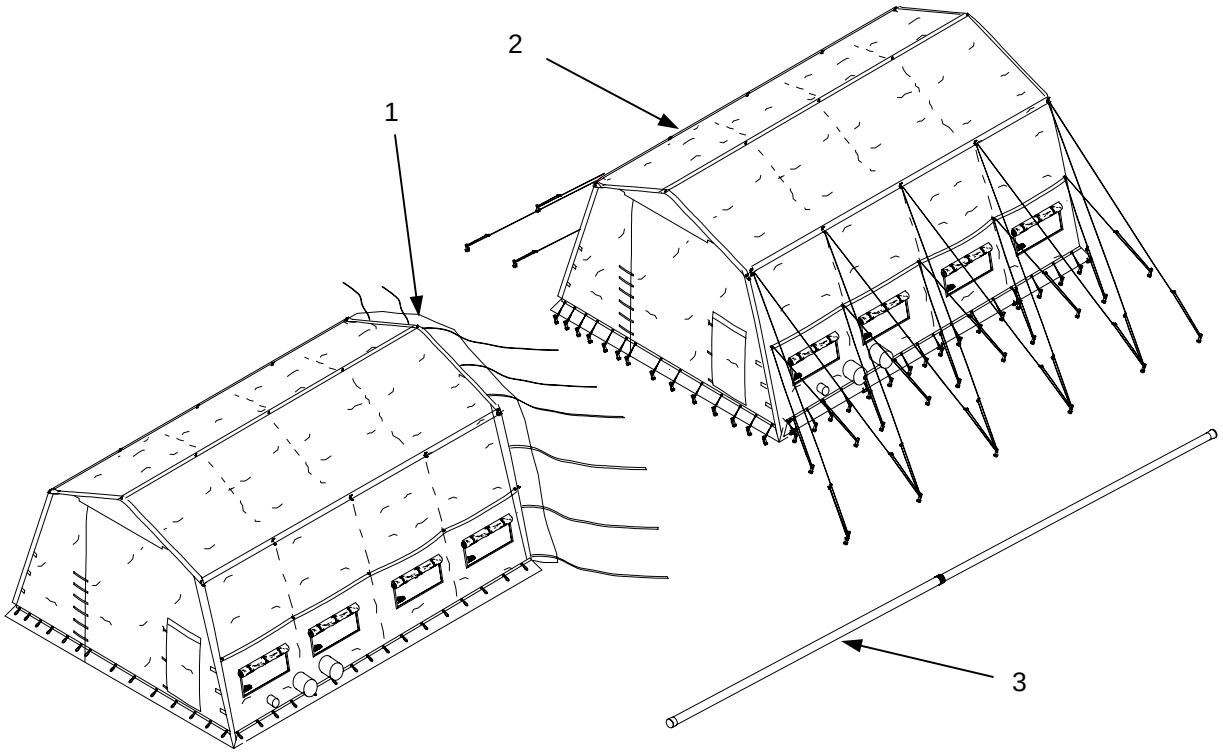
3. Follow the procedures detailed in this work package regarding frame assembly and fabric installation, but do not install the end fabric section nearest the existing LME.

4. Install the extension assembly **(1)** at the end of the structure nearest the existing LME **(2),** lacing it to the intermediate fabric section.

5. Lift the structure as detailed earlier in this work package observing all warnings and cautions.

6. Gather personnel and move the structure until both are aligned and touching.

7. Using the Painter's Pole **(3)** (also listed on the AAL), gently push the extension assembly **(1)** up between the two structures until the fabric guy lines and web straps are resting on the roof of the existing LME.



8. Route the center line guy line **(1)** around the eave post **(2)** and tie off the end.

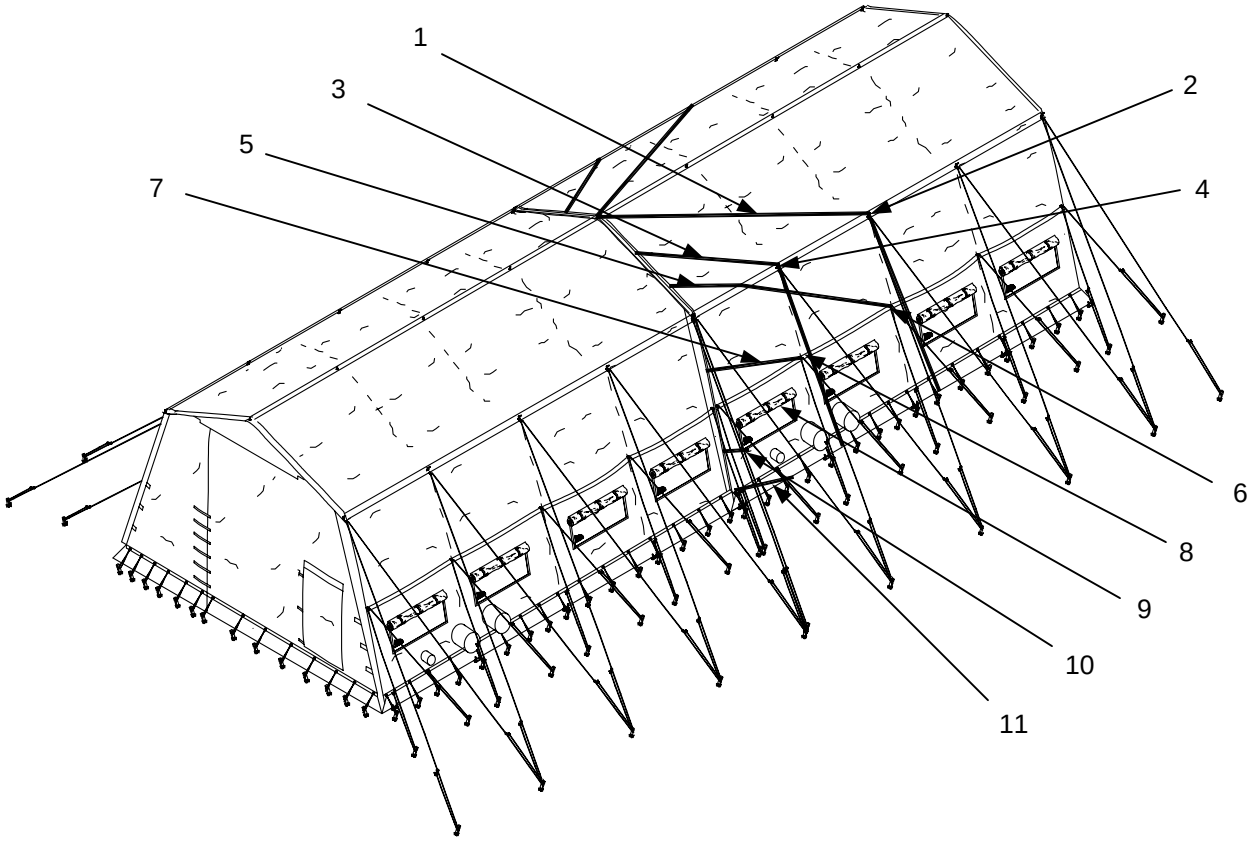
9. Route the mid-roof guy line **(3)** around the eave post **(4)** and tie off the end.

10. Pass the web strap **(5)** through the mid-height buckle **(6)** and secure. Pass the web strap **(7)** through the mid height buckle **(8)** and secure.

11. Lift the window flap **(9)** and attach the hook and loop strap **(10)**. Close the window flap.

12. Pass the base strap **(11)** around the base purlin.

13. Repeat the procedure for both sides of the structure.



Connecting External Power

1. Open the power distribution box main cover latch located on the bottom of the box **(1),** by depressing the safety catch and pivoting the cover **(2)** forward.

2. Lift the cover **(2)** up all the way and secure it with the hook and loop fastener **(3)**.

WARNING

Lethal voltage is present when the power distribution box is connected to a power source. The generator should be off while the following steps are performed. Serious injury or death by electrocution may result if this warning is not followed.

3. Strip the outer jacket of the generator cable **(4)** approximately 4 inches long. Using a wire stripping tool, strip the individual wires **(5)** approximately 2 inches long.

4. Open the terminal access cover **(6)** by turning the screw 1/4 turn counter-clockwise.

5. Route the cable in through the cord grip **(7).**

6. Position the wires as follows under the set screws **(8)** and secure.

Black wire	L1
Red wire	L2
Blue wire	L3 (provided)
White wire	L0
Green wire	Ground

7. Tighten the cord grip **(7)** by hand until the cable **(4)** is secure.

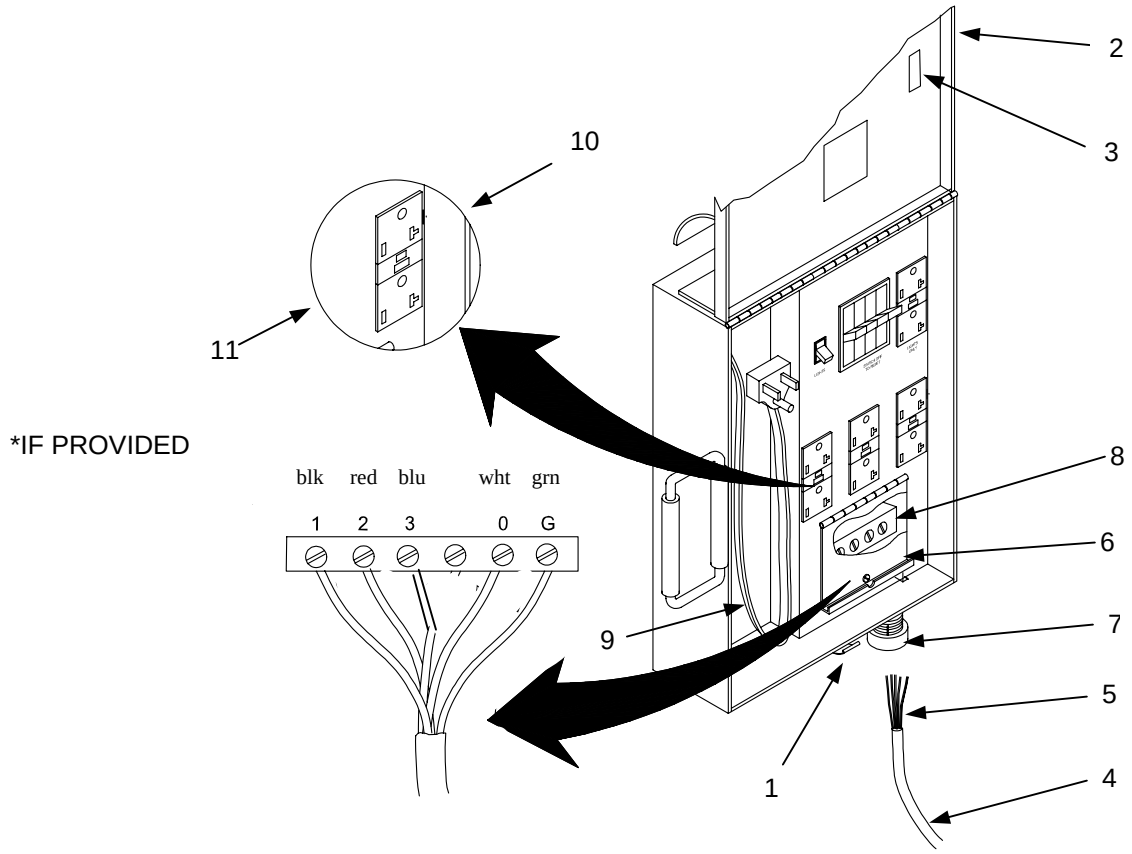
8. Close the terminal access cover **(6)** and secure.

9. Plug the male end of the 25-foot light cord **(9)** into the receptacle marked “LIGHTS ONLY”.

10. Power from the generator may now be applied.

11. Test each receptacle by pressing the blue button **(10)** marked “TEST”.

12. Reset by pressing the red button **(11)** marked “RESET”.



Power Cable for the Lightweight Maintenance Enclosure
The LME, as used by the Army, does not use a 50-foot or 100-foot power cable that has an NSN. The power distribution box was designed to be used with a cable of approximately 25 to 50 feet in length. The cable does not have a connector at either end because the cable is connected to the power distribution box as shown. The same method of wire stripping and connection is used at the generator.

Military cable type CO-04-MGF 4/8 having four conductors of number eight wire size may be used, or the commercial equivalent. Flexible, medium duty commercial type SO having four conductors of wire size number 8 is suitable to connect the power distribution box to the load terminals of the electric power generator.

The attachment of the cable to the power distribution box, generator load terminals and the operation of the electric power generator should be accomplished by a qualified generator operator in accordance with the technical manual for the generator being used.

OPERATING PROCEDURES

CAUTION

The LME should not be operated with one end closed and one end open. This causes a wind sock effect and can cause damage to the structure.

Operation of Doors
Personnel and vehicle doors are located at each end of the structure. These can be rolled to the inside and secured open with the attached buckles if desired, or left closed in inclement weather or blackout conditions.

Operation of Windows
Four windows are located on each side of the structure. These consist of three layers: a fabric cover on the outside, a screen on the inside, and a detachable/replaceable clear plastic window in the middle. The plastic windows are secured by hook and loop fasteners. The fabric cover can be held open with tie tapes. These must be rolled up towards the inside to prevent rain from being trapped within the folds.

Operation of Power Distribution Box
The operation of the power distribution box, once it is connected to a power source, consists of the following:

Operation of the interior lights using the "LIGHTS" switch
After the 25-ft light cord has been connected to the receptacle marked "LIGHTS ONLY", the interior lights are turned on and off using this switch.

Operation of the circuit breakers
The circuit breakers are manually reset when the breakers may have tripped due to a circuit overload or a short circuit.

Operation of the "LIGHTS ONLY" receptacle
The 25-ft light cord is plugged into this receptacle only. It must be connected before the lights are operated using the "LIGHTS" switch.

Operation of the utility receptacles
Electrical equipment and power tools operating on 120 V may be plugged into these receptacles.

Operation of Lights
The lights are operated using the "LIGHTS" switch located in the Power Distribution Box.

DECALS AND INSTRUCTION PLATES
The following labels, decals, and instruction plates are found on the LME components indicated.

Fabric Panels.
Various fabric panels have identification and instruction labels attached as specified below:

Intermediate Fabric Assembly
The following identification label is attached to the intermediate fabric assembly.

US	Nationality Marking
INTERMEDIATE FABRIC ASSEMBLY	Part Nomenclature
DAAD16-01-D-0013	Contract Number
5-4-7893	Part Number
(81337)	CAGE
TELE: (423) 562-0527	Manufacturer Phone No.

Fabric Transport Cover
The following identification labels are attached to the fabric transport cover.

US	Nationality Marking
FABRIC TRANSPORT COVER	Part Nomenclature
DAAD16-01-D-0013	Contract Number
5-4-7951	Part Number
(81337)	CAGE
TELE: (423) 562-0527	Manufacturer Phone No.

Frame Assembly
The following identification label is attached to a lower leg of the frame assembly.

US	Nationality Marking
FRAME ASSEMBLY	Part Nomenclature
DAAD16-01-D-0013	Contract Number
5-4-7862	Part Number
(81337)	CAGE
TELE: (423) 562-0527	Manufacturer Phone No.

Fabric Extension Assembly

The following identification label is attached to the fabric extension assembly.

US	Nationality Marking
FABRIC EXTENSION ASSEMBLY	Part Nomenclature
DAAD16-01-D-0013	Contract Number
5-4-7950	Part Number
(81337)	CAGE
TELE: (423) 562-0527	Manufacturer Phone No.

Fabric Transport Cover W/Repair Kit

The following identification label is attached to the fabric transport cover w/repair kit.

US	Nationality Marking
FABRIC TRANSPORT COVER W/REPAIR KIT	Part Nomenclature
DAAD16-01-D-0013	Contract Number
5-4-7952	Part Number
(81337)	CAGE
TELE: (423) 562-0527	Manufacturer Phone No.

Pin Transport Bag

The following identification label is attached to the pin transport bag.

US	Nationality Marking
PIN TRANSPORT BAG	Part Nomenclature
DAAD16-01-D-0013	Contract Number
5-4-7955	Part Number
(81337)	Manufacturer and CAGE
TELE: (423) 562-0527	Manufacturer Phone No.

Intermediate Fabric Assembly

The following identification label is attached to the intermediate fabric assembly.

US	Nationality Marking
INTERMEDIATE FABRIC ASSEMBLY	Part Nomenclature
DAAD16-01-D-0013	Contract Number
5-4-7893	Part Number
(81337)	Manufacturer and CAGE
TELE: (423) 562-0527	Manufacturer Phone No.

End Fabric Panel

The following identification label is attached to the end fabric panel.

US	Nationality Marking
END FABRIC PANEL	Part Nomenclature
DAAD16-01-D-0013	Contract Number
5-4-7895	Part Number
(81337)	Manufacturer and CAGE
TELE: (423) 562-0527	Manufacturer Phone No.

Power Distribution Bag

The following identification label is attached to the power distribution bag.

US	Nationality Marking
POWER DISTRIBUTION BAG	Part Nomenclature
DAAD16-01-D-0013	Contract Number
5-4-7966	Part Number
(81337)	Manufacturer and CAGE
TELE: (423) 562-0527	Manufacturer Phone No.

Transport Cover, Fabric, 8 foot Extension Assembly kit

The following identification label is attached to the transport cover, fabric, 8-ft extension assembly kit.

US	Nationality Marking
TRANSPORT COVER, FABRIC, 8 FOOT EXTENSION ASSEMBLY KIT	Part Nomenclature
DAAD16-01-D-0013	Contract Number
5-4-9010	Part Number
(81337)	Manufacturer and CAGE
TELE: (423) 562-0527	Manufacturer Phone No.

Transport Cover, Frame, Extension kit

The following identification label is attached to the transport cover, frame, 8-ft extension assembly kit.

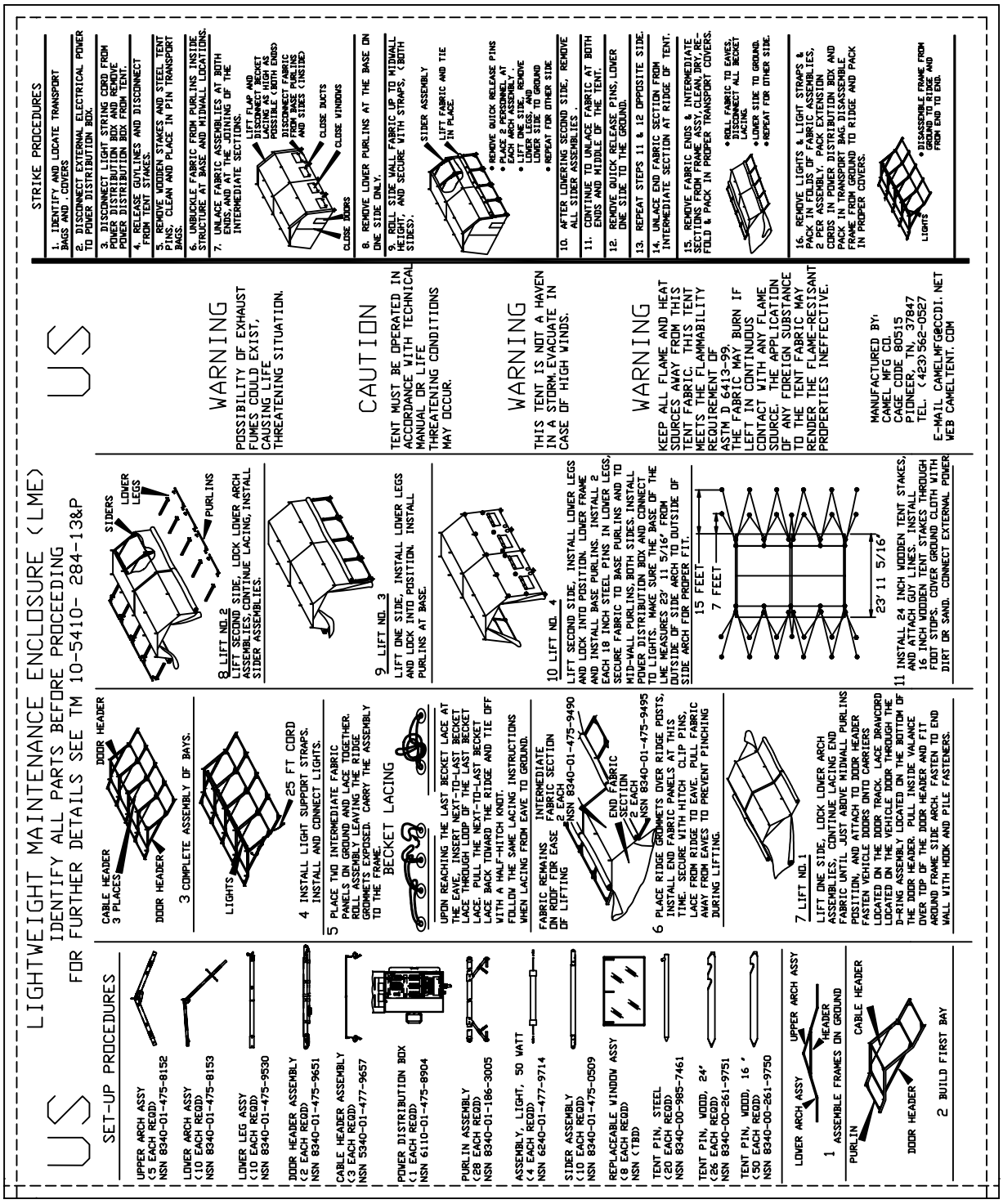
US	Nationality Marking
TRANSPORT COVER, FRAME, 8 FOOT EXTENSION ASSEMBLY KIT	Part Nomenclature
DAAD16-01-D-0013	Contract Number
5-4-9020	Part Number
(81337)	Manufacturer and CAGE
TELE: (423) 562-0527	Manufacturer Phone No.

Bag, Tent Pin, Extension kit

The following identification label is attached to the bag, tent pin, 8 foot extension assembly kit.

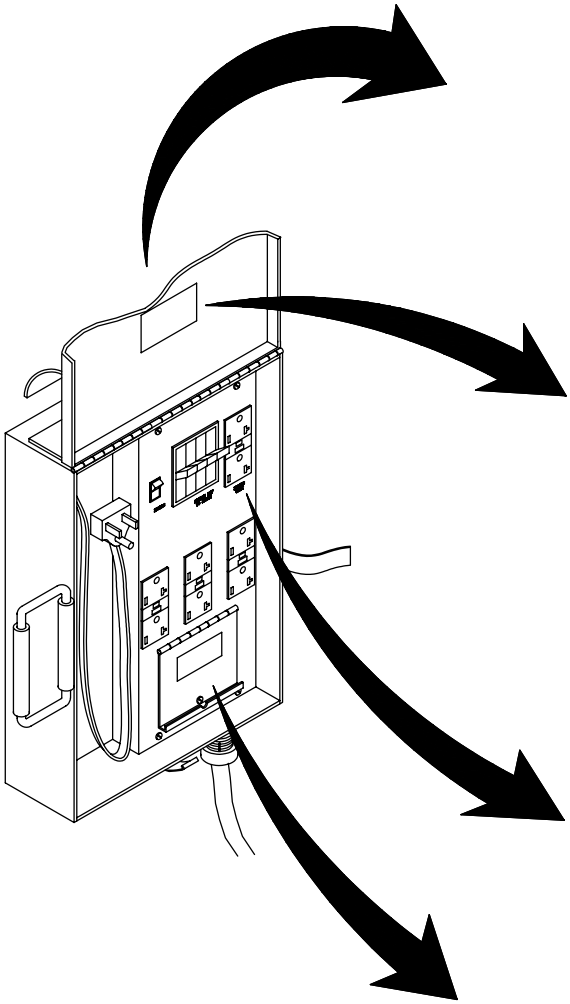
US	Nationality Marking
BAG, TENT PIN, 8 FOOT EXTENSION ASSEMBLY KIT	Part Nomenclature
DAAD16-01-D-0013	Contract Number
5-4-9030	Part Number
(81337)	Manufacturer and CAGE
TELE: (423) 562-0527	Manufacturer Phone No.

An instruction/erection label containing LME component identification, abbreviated setup/strike procedures, as well as WARNINGS and CAUTIONS is located on the inside of each end wall fabric assembly.


US
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
IDENTIFY ALL PARTS BEFORE PROCEEDING
FOR FURTHER DETAILS SEE TM 10-5410- 284-13&P
SET-UP PROCEDURES
UPPER ARCH ASSY (5 EACH REQD) NSN 8340-01-475-8152
LOWER ARCH ASSY (10 EACH REQD) NSN 8340-01-475-8153
LOWER LEG ASSY (10 EACH REQD) NSN 8340-01-475-9530
DOOR HEADER ASSEMBLY (2 EACH REQD) NSN 8340-01-475-9651
CABLE HEADER ASSEMBLY (3 EACH REQD) NSN 5340-01-477-9657
POWER DISTRIBUTION BOX (1 EACH REQD) NSN 6110-01-475-8904
PURLIN ASSEMBLY (28 EACH REQD) NSN 8340-01-186-3005
ASSEMBLY, LIGHT, 50 WATT (4 EACH REQD) NSN 6240-01-477-9714
SIDER ASSEMBLY (10 EACH REQD) NSN 8340-01-475-0509
REPLACEABLE WINDOW ASSY (8 EACH REQD) NSN (TBD)
TENT PIN, STEEL (20 EACH REQD) NSN 8340-00-985-7461
TENT PIN, WOOD, 24" (26 EACH REQD) NSN 8340-00-261-9751
TENT PIN, WOOD, 16" (50 EACH REQD) NSN 8340-00-261-9750
1 ASSEMBLE FRAMES ON GROUND
LOWER ARCH ASSY
UPPER ARCH ASSY
HEADER
PURLIN
CABLE HEADER
DOOR HEADER
2 BUILD FIRST BAY
CABLE HEADER 3 PLACES
DOOR HEADER
3 COMPLETE ASSEMBLY OF BAYS.
LIGHTS
25 FT CORD
4 INSTALL LIGHT SUPPORT STRAPS. INSTALL AND CONNECT LIGHTS.
5 PLACE TWO INTERMEDIATE FABRIC PANELS ON GROUND AND LACE TOGETHER. ROLL ASSEMBLY LEAVING THE RIDGE GROMMETS EXPOSED. CARRY THE ASSEMBLY TO THE FRAME.
BECKET LACING
UPON REACHING THE LAST BECKET LACE AT THE EAVE, INSERT NEXT-TO-LAST BECKET LACE THROUGH LOOP OF THE LAST BECKET LACE. PULL THE NEXT-TO-LAST BECKET LACE BACK TOWARD THE RIDGE AND TIE OFF WITH A HALF-HITCH KNOT. FOLLOW THE SAME LACING INSTRUCTIONS WHEN LACING FROM EAVE TO GROUND.
FABRIC REMAINS ON ROOF FOR EASE OF LIFTING
INTERMEDIATE FABRIC SECTION 2 EACH NSN 8340-01-475-9490
END FABRIC SECTION 2 EACH NSN 8340-01-475-9495
6 PLACE RIDGE GROMMETS OVER RIDGE POSTS. INSTALL END FABRIC PANELS AT THIS TIME. SECURE WITH HITCH CLIP PINS. LACE FROM RIDGE TO EAVE. PULL FABRIC AWAY FROM EAVES TO PREVENT PINCHING DURING LIFTING.
7 LIFT NO. 1
LIFT ONE SIDE. LOCK LOWER ARCH ASSEMBLIES, CONTINUE LACING END FABRIC UNTIL JUST ABOVE MIDWALL PURLINS POSITION, AND ATTACH TO DOOR HEADER FASTEN VEHICLE DOORS ONTO CARRIERS LOCATED ON THE DOOR TRACK. LACE DRAWCORD LOCATED ON THE VEHICLE DOOR THROUGH THE D-RING ASSEMBLY LOCATED ON THE BOTTOM OF THE DOOR HEADER. PULL INSIDE VALANCE OVER TOP OF THE DOOR HEADER AND FIT AROUND FRAME SIDE ARCH. FASTEN TO END WALL WITH HOOK AND PILE FASTENERS.
SIDERS
LOWER LEGS
PURLINS
8 LIFT NO. 2
LIFT SECOND SIDE. LOCK LOWER ARCH ASSEMBLIES, CONTINUE LACING, INSTALL SIDER ASSEMBLIES.
9 LIFT NO. 3
LIFT ONE SIDE. INSTALL LOWER LEGS AND LOCK INTO POSITION. INSTALL PURLINS AT BASE.
10 LIFT NO. 4
LIFT SECOND SIDE. INSTALL LOWER LEGS AND LOCK INTO POSITION. LOWER FRAME AND INSTALL BASE PURLINS. INSTALL 2 EACH 18 INCH STEEL PINS IN LOWER LEGS, SECURE FABRIC TO BASE PURLINS AND TO MID-WALL PURLINS, BOTH SIDES. INSTALL POWER DISTRIBUTION BOX AND CONNECT TO LIGHTS. MAKE SURE THE BASE OF THE LME MEASURES 23' 11 5/16" FROM OUTSIDE OF SIDE ARCH TO OUTSIDE OF SIDE ARCH FOR PROPER FIT.
15 FEET
7 FEET
23' 11 5/16"
11 INSTALL 24 INCH WOODEN TENT STAKES, AND ATTACH GUY LINES. INSTALL 16 INCH WOODEN TENT STAKES THROUGH FOOT STOPS. COVER GROUND CLOTH WITH DIRT OR SAND. CONNECT EXTERNAL POWER.
US
WARNING
POSSIBILITY OF EXHAUST FUMES COULD EXIST, CAUSING LIFE THREATENING SITUATION.
CAUTION
TENT MUST BE OPERATED IN ACCORDANCE WITH TECHNICAL MANUAL OR LIFE THREATENING CONDITIONS MAY OCCUR.
WARNING
THIS TENT IS NOT A HAVEN IN A STORM, EVACUATE IN CASE OF HIGH WINDS.
WARNING
KEEP ALL FLAME AND HEAT SOURCES AWAY FROM THIS TENT FABRIC. THIS TENT MEETS THE FLAMMABILITY REQUIREMENT OF ASTM D 6413-99. THE FABRIC MAY BURN IF LEFT IN CONTINUOUS CONTACT WITH ANY FLAME SOURCE. THE APPLICATION OF ANY FOREIGN SUBSTANCE TO THE TENT FABRIC MAY RENDER THE FLAME-RESISTANT PROPERTIES INEFFECTIVE.
MANUFACTURED BY:
CAMEL MFG CO.
CAGE CODE 80515
PIONEER, TN, 37847
TEL. (423)562-0527
E-MAIL CAMELMFG@CCDI.NET
WEB CAMELTENT.COM
STRIKE PROCEDURES
1. IDENTIFY AND LOCATE TRANSPORT BAGS AND COVERS
2. DISCONNECT EXTERNAL ELECTRICAL POWER TO POWER DISTRIBUTION BOX.
3. DISCONNECT LIGHT STRING CORD FROM POWER DISTRIBUTION BOX AND REMOVE POWER DISTRIBUTION BOX FROM TENT.
4. RELEASE GUYLINES AND DISCONNECT FROM TENT STAKES.
5. REMOVE WOODEN STAKES AND STEEL TENT PINS, CLEAN AND PLACE IN PIN TRANSPORT BAGS.
6. UNBUCKLE FABRIC FROM PURLINS INSIDE STRUCTURE AT BASE AND MIDWALL LOCATIONS.
7. UNLACE FABRIC ASSEMBLIES AT BOTH ENDS AND AT JOINING OF THE INTERMEDIATE SECTIONS.
LIFT FLAP AND DISCONNECT BECKET LACING AS HIGH AS POSSIBLE (BOTH ENDS)
REMOVE PINS FROM BASE PURLINS AND SIDES (INSIDE)
CLOSE DUCTS
CLOSE WINDOWS
CLOSE DOORS
8. REMOVE LOWER PURLINS AT THE BASE ON ONE SIDE ONLY.
9. ROLL SIDE WALL FABRIC UP TO MIDWALL HEIGHT, AND SECURE WITH STRAPS, (BOTH SIDES).
SIDER ASSEMBLY
LIFT FABRIC AND TIE IN PLACE
• REMOVE QUICK RELEASE PINS
• PLACE PEDESTAL AT EACH ARCH ASSEMBLY.
• LIFT ONE SIDE, REMOVE LOWER LEGS, AND LOWER SIDE TO GROUND
• REPEAT FOR OTHER SIDE
10. AFTER LOWERING SECOND SIDE, REMOVE ALL SIDER ASSEMBLIES.
11. CONTINUE TO UNLACE FABRIC AT BOTH ENDS AND MIDDLE OF THE TENT.
12. REMOVE QUICK RELEASE PINS, LOWER ONE SIDE TO THE GROUND.
13. REPEAT STEPS 11 & 12 OPPOSITE SIDE.
14. UNLACE END FABRIC SECTION FROM INTERMEDIATE SECTION AT RIDGE OF TENT.
15. REMOVE FABRIC ENDS & INTERMEDIATE SECTIONS FROM FRAME ASSY, CLEAN, DRY, RE-FOLD & PACK IN PROPER TRANSPORT COVERS.
• ROLL FABRIC TO EAVES. DISCONNECT ALL BECKET LACING.
• LOWER SIDE TO GROUND.
• REPEAT FOR OTHER SIDE.
16. REMOVE LIGHTS & LIGHT STRAPS & PACK IN FOLDS OF FABRIC ASSEMBLIES, 2 PER ASSEMBLY. PACK EXTENSION CORDS IN POWER DISTRIBUTION BOX AND PACK IN TRANSPORT BAG. DISASSEMBLE FRAME FROM GROUND TO RIDGE AND PACK IN PROPER COVERS.
LIGHTS
• DISASSEMBLE FRAME FROM GROUND TO RIDGE AND FROM END TO END.

Power Distribution Box

The following warning, instruction and identification labels are attached to the power distribution box.



POWER DISTRIBUTION BOX
MODEL AM 2526
VOLTS: 120 VAC
MAXIMUM LOAD: 70 AMPS
176 LUTHER SEIBER LANE
PIONEER, TN 37847

US MFG DATE CODE
CONTRACT # DAAD16-01-D-0013
CAGE CODE 80515
176 LUTHER SEIBER LANE
PIONEER, TN 37847, USA

LIGHTS	**SWITCH OFF TO RESET**	**LIGHTS ONLY**

WARNING: POTENTIAL SHOCK HAZARD!
BE SURE POWER SUPPLY TO THIS UNIT IS OFF BEFORE SERVICING.
DO NOT INSERT OR REMOVE PLUGS UNDER DAMP OR WET CONDITIONS.

Light Set

The following combination identification, instruction, and caution label is attached to each individual light.


CAUTION
1. ELECTRICAL OUTLET PLUG IS FOR LIGHT-SET USE ONLY.
2. MAXIMUM LIGHT CONNECTION, 12 PER STRING.
3. THIS LIGHT SET IS NOT EXPLOSION PROOF.
4. CONNECT TO 120VAC 50 OR 60 CYCLE POWER ONLY.

PREPARATION FOR MOVEMENT

WARNING

To carry the fabric assemblies and lower the frame structure requires 12 persons. All lowering should be done on command, using proper lifting techniques to prevent injury to personnel. Serious injuries may result if less than 12 persons attempt these tasks.

WARNING

Be careful when removing quick release pins. Your fingers and hands may be pinched or crushed. Failure to remove quick release pins when instructed to do so may result in injury to personnel.

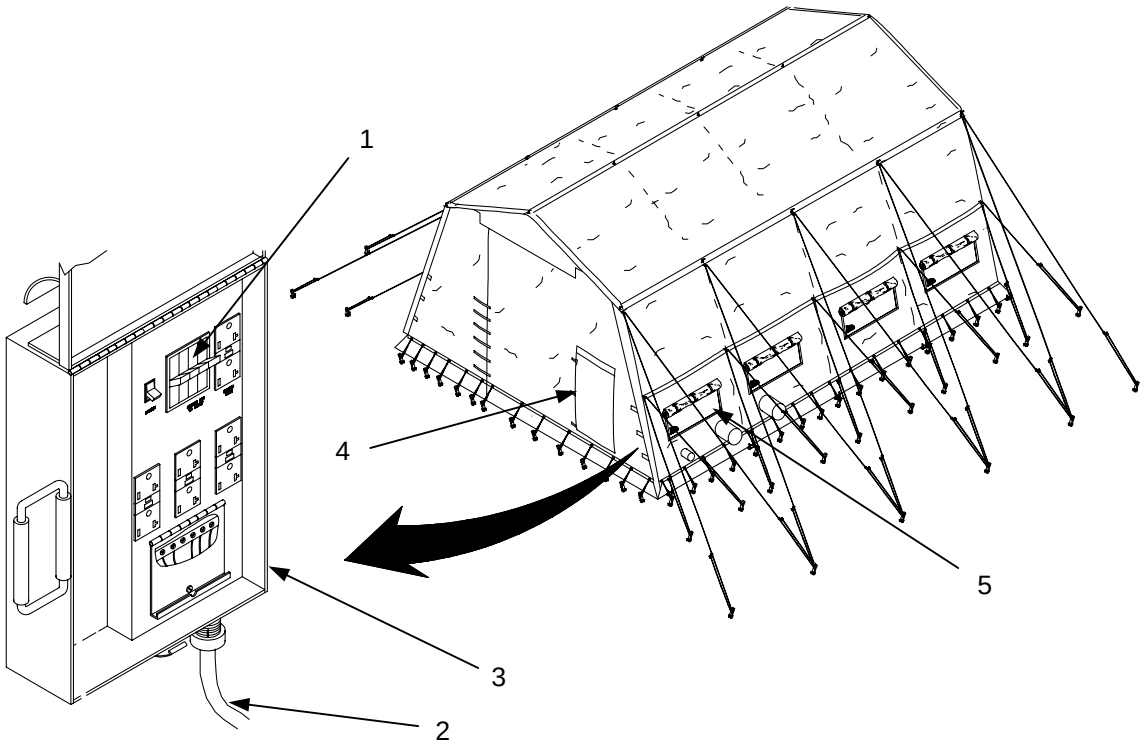
CAUTION

The structure must be lowered uniformly. Do not twist or turn frame components when handling. Ensure all quick release pins in the arch assemblies are disengaged before lowering. Damage to equipment may result.

In preparation for striking of the LME, locate and identify all transport covers and bags. Place them within easy reach.

Preparation for Striking

1. Turn off all power distribution box circuit breakers **(1)**.
2. Disconnect the external power supply at the source.
3. Disconnect the external power supply cable **(2)** from the power distribution box **(3)**.
4. Remove the power distribution box **(3)** and close the personnel doors **(4)** and windows **(5)**.
5. Ensure that the vehicle doors are unfastened.


1
2
3
4
5

Striking the LME

1. Release the guy lines **(1)** and disconnect them from the wooden stakes **(2)**.

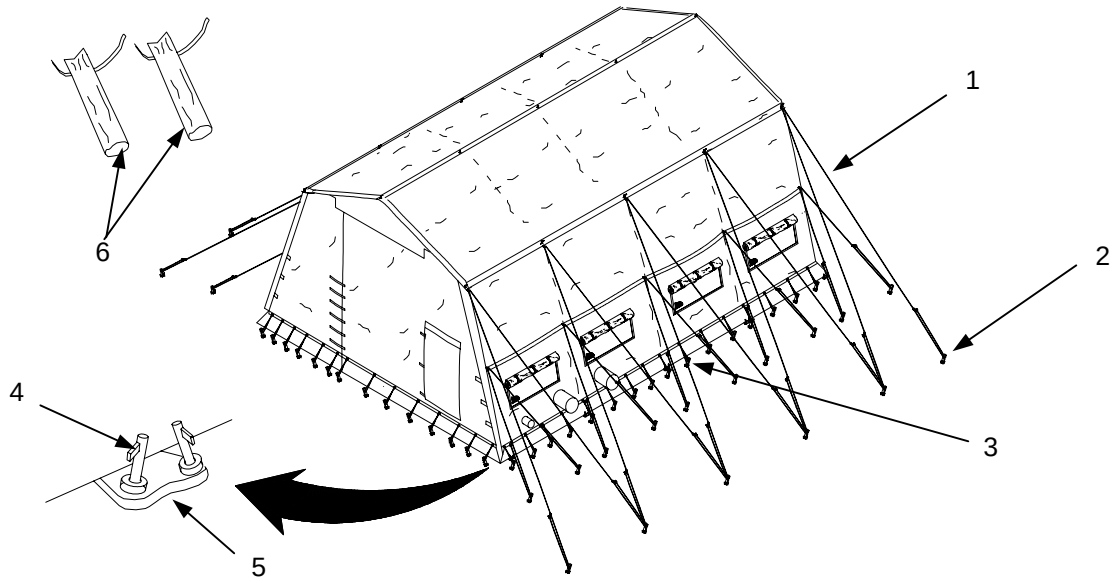
2. Coil the guy lines **(1)**.

3. Remove the wooden guy line stakes **(2)**, the wooden stakes securing the bottom of the fabric assemblies to the ground **(3)** and the steel tent pins **(4)** from the frame feet **(5)**.

4. Clean the stakes and pins and place them in their pin transport bags **(6)**.

NOTE

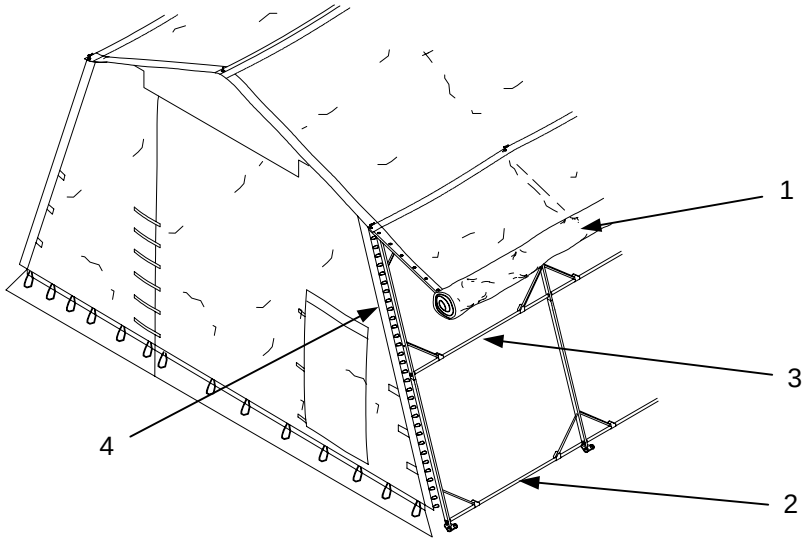
Refer to WP 0006 00, LME Type II, Operation Under Usual Conditions, Positioning the LME in Preparation for Striking, prior to staking the LME.



5. Unbuckle the fabric panels **(1)** from the base **(2)** and from the mid-height purlins **(3)** on the inside of the structure.

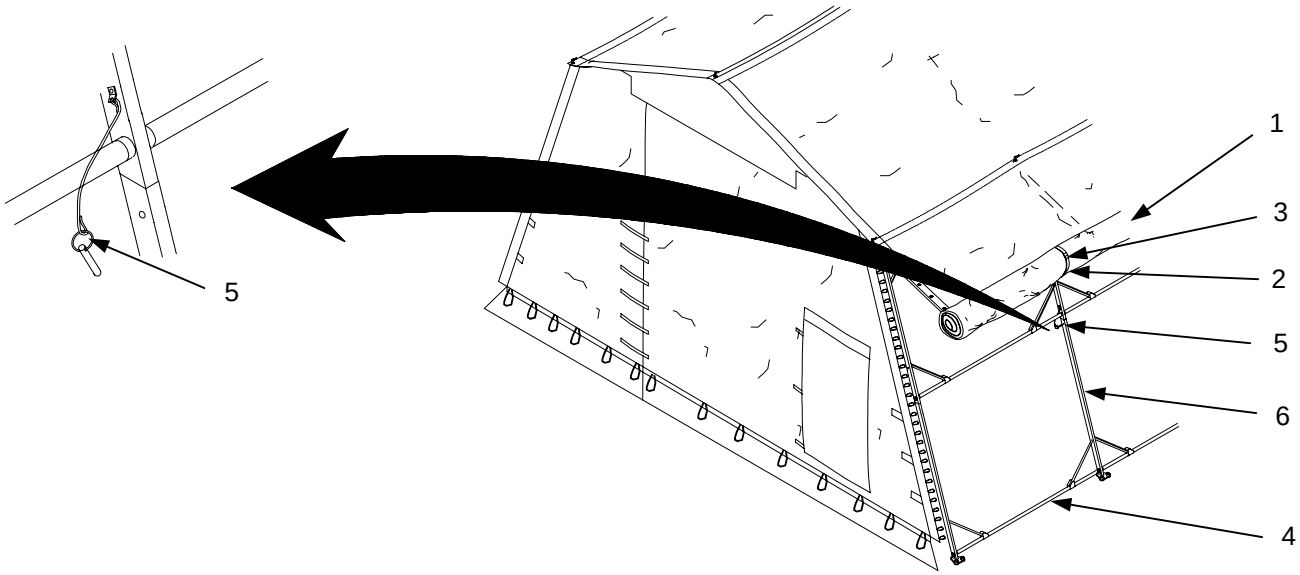
6. Unlace the end fabric panel **(4)** at the joining of the intermediate and end fabric panels to the mid-height level. Roll the fabric to the mid-height level and secure with the buckles.

7. Close and secure all window sections with hook and loop fasteners.



8. Remove the base purlins **(4)** on the side of the structure being lowered to the ground, and secure the movable braces with straps.

9. Remove the quick release pins **(5)** holding the lower leg assemblies **(6)**.

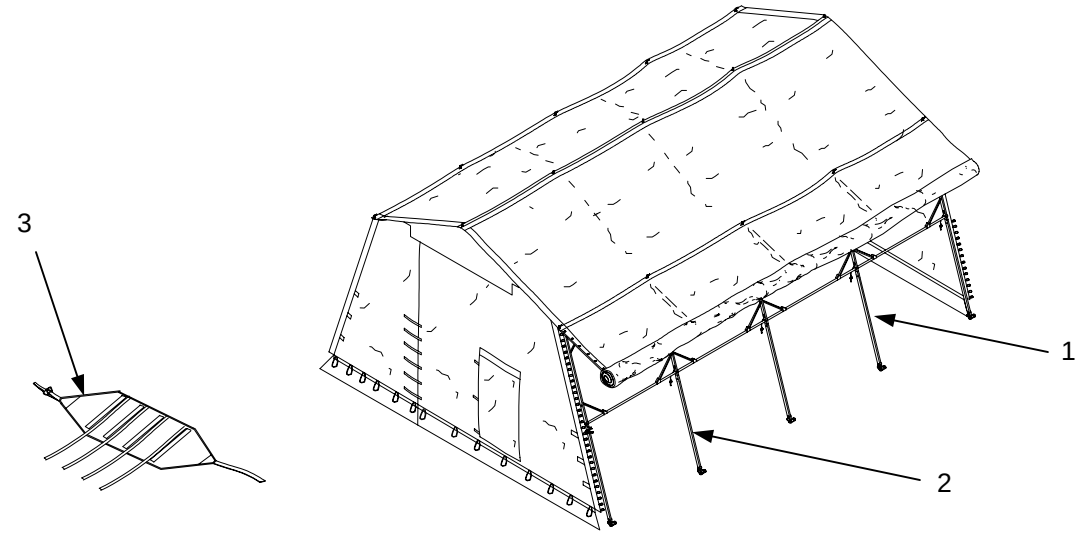


10. Gather personnel, two at each arch frame assembly **(1),** one person to lift the structure and one to remove the lower leg. On command, lift one side of the structure off the ground.

11. Remove the lower leg assemblies **(2)** and lower the structure to the ground.

12. Clean the legs **(2)** if necessary and pack them in the proper transport covers **(3).**

13. Move the personnel to the opposite side of the structure and repeat the procedure.



WARNING

To carry the fabric assemblies and lower the frame structure requires 12 persons. All lowering should be done on command, using proper lifting techniques to prevent injury to personnel. Failure to comply may result serious injuries if less than 12 persons attempt these tasks.

WARNING

Be careful when removing quick release pins. Your fingers and hands may be pinched or crushed. Failure to remove quick release pins when instructed to do so may result in injury to personnel.

CAUTION

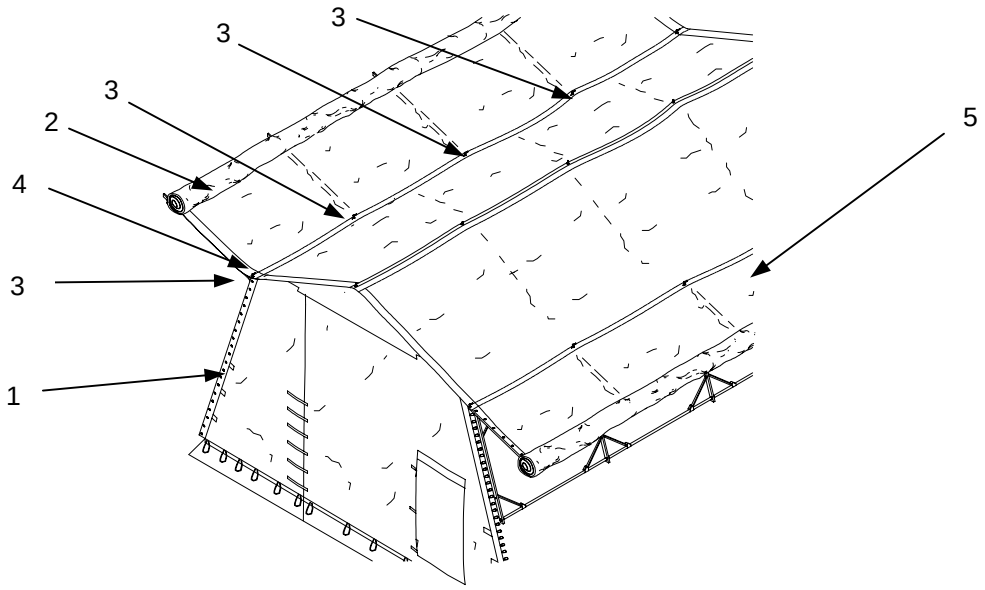
The structure must be lowered uniformly. Do not twist or turn frame components when handling. Damage to equipment may result. Ensure all quick release pins in the arch assemblies are disengaged before lowering.

14. Unlace the end fabric panels **(1)** at the eaves from the intermediate fabric panels **(2)** at both ends of the structure.

15. Remove all hitch clip pins **(3)** at the eave posts **(4)**, and roll the fabric **(2)** up onto the roof. Repeat the procedure on the opposite of the structure **(5)**.

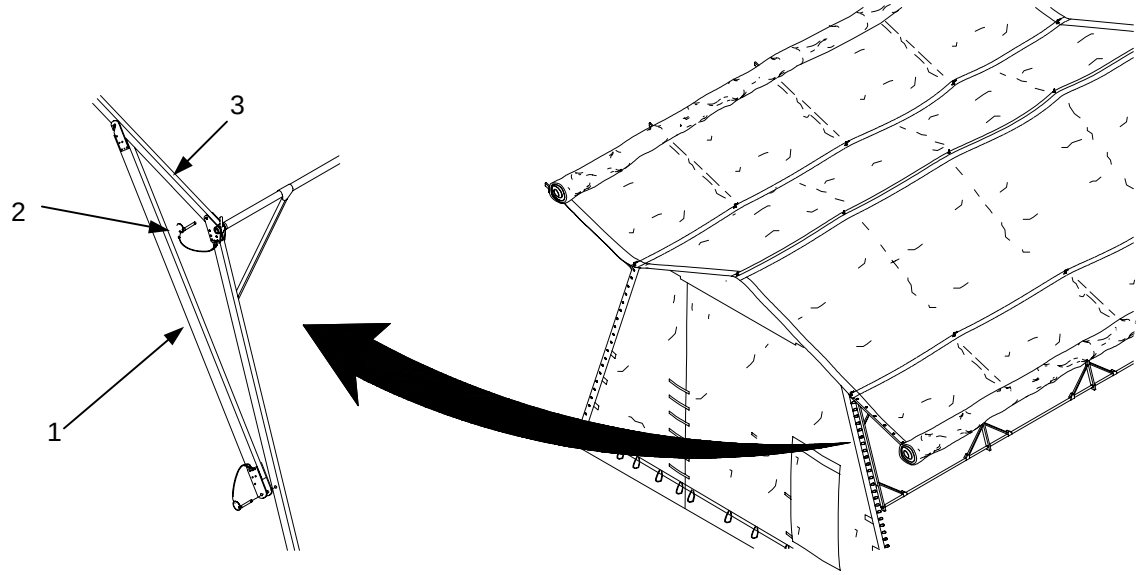
16. Pull the fabric away from the eaves **(4)** to avoid pinching.

17. Remove and stow the bottom purlins on one side of the structure.



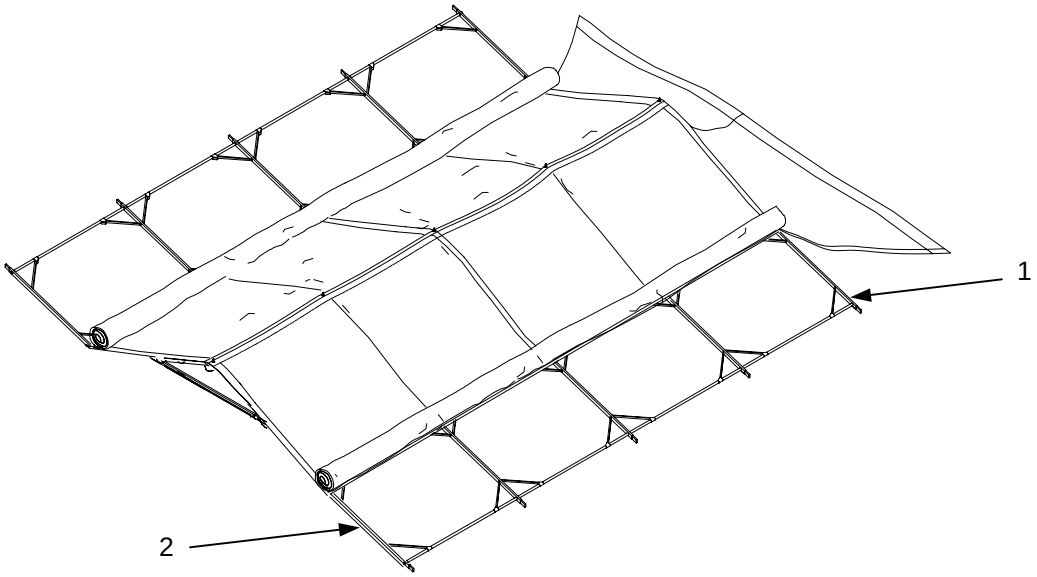
18. Remove all side assemblies **(1)**.

19. Remove the quick release pins **(2)** in the lower arch assemblies **(3)** on one side of the structure.



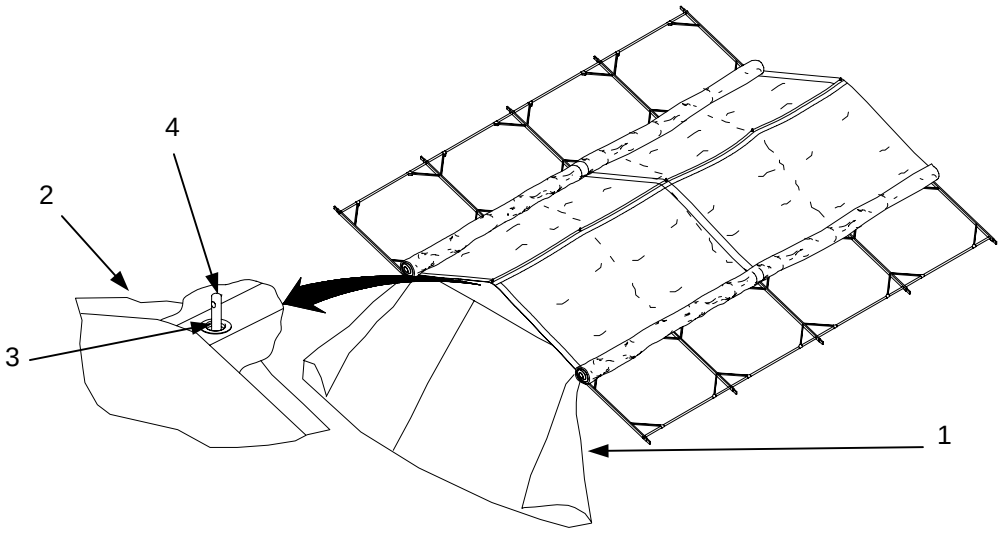
20. On command, lift one side **(1)** of the structure off the ground and swing the lower arch assembly legs **(2)** outward.

21. Lower the structure to the ground. Repeat the procedure on the other side of the structure. Remove the upper door grommets from the door header hooks.



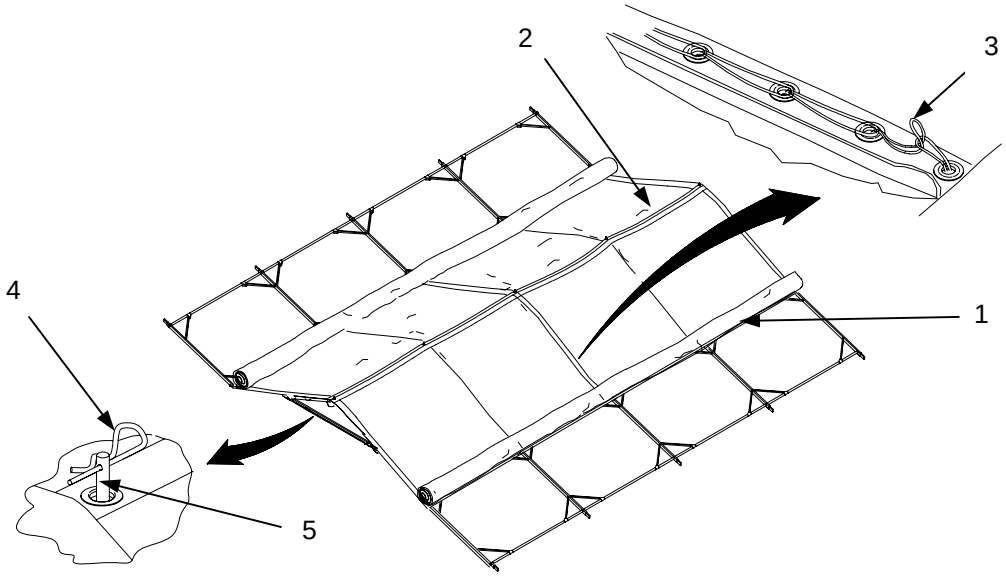
22. Remove the end fabric panels **(1)** at this time by removing the hitch clip pins at the eave and the ridge. Then disconnect the remaining becket lacing **(2)** and lift the ridge grommet **(3)** off the ridge post **(4)**.

23. Remove the end fabric panel to a clear area to be cleaned and folded.



24. Roll the intermediate fabric panels **(1)** toward the ridge **(2)**, disconnecting the becket lacing **(3)** while rolling the fabric.

25. When within reach of the ridge, remove the ridge hitch clip pins **(4)** from the ridge posts **(5)**.



26. On command, lift the fabric panels **(1)** off the ridge posts **(2).** Stepping carefully through the frame **(3)**, carry the fabric panels away from the structure.

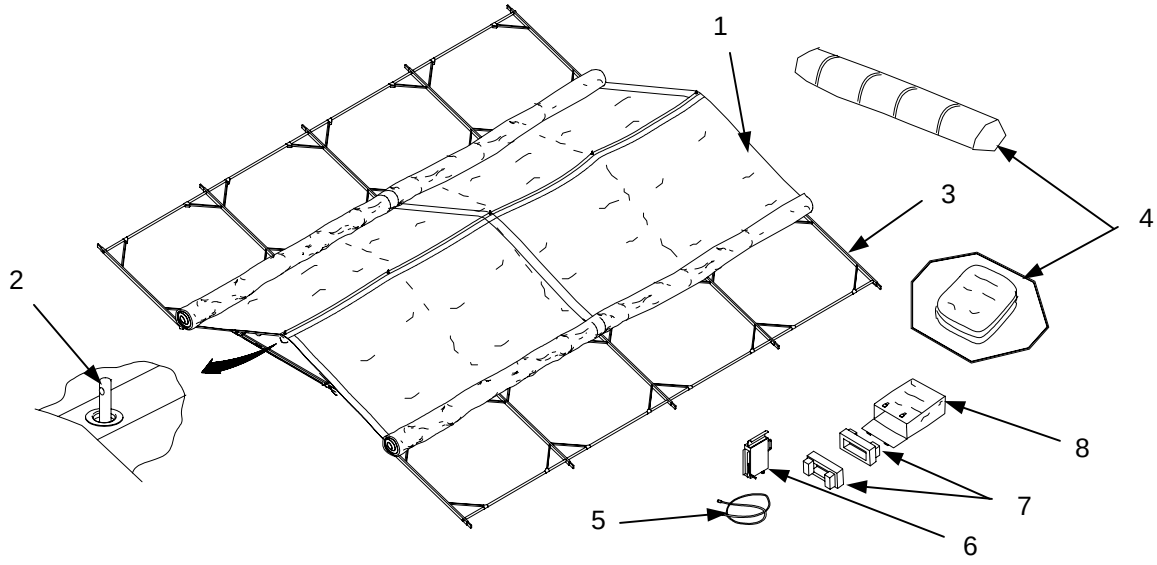
NOTE

If the LME Type II is deployed, proceed to Frame Disassembly in this work package (next section).

27. Pack the panels in their proper transport covers **(4)**. The contents of each cover are clearly marked, both on the inside and outside of the cover.

28. Unplug the 25-ft power cord **(5)** from the light string, unwrap it from the frame, and pack it in the power distribution box **(6)**.

29. Pack the power distribution box **(6)** into its foam cushions **(7)**, and then into its transport bag **(8)**.



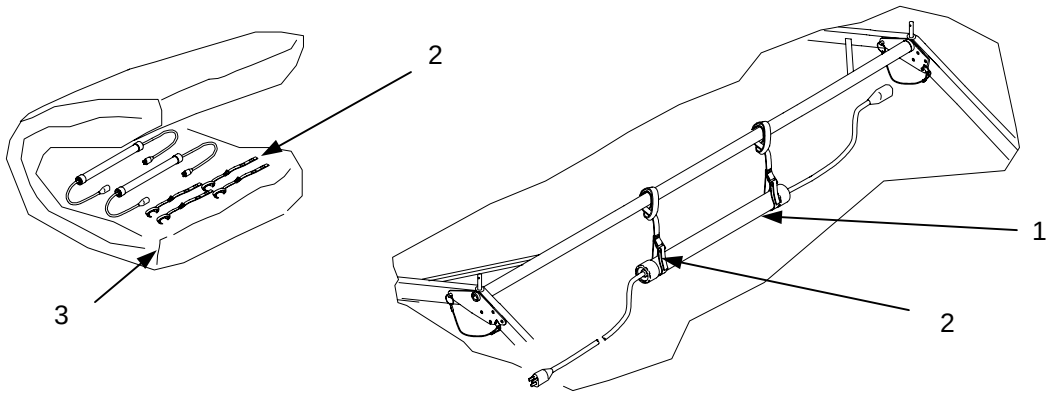
Light Disassembly

1. Stepping into the frame structure, unplug all the lights **(1)** in the light string.

2. Disconnect the light support straps **(2)** supporting one light and place the light into the folds of the fabric sections **(3)**.

3. Remove the light support straps **(2)** from the purlin and wrap them around the lights, two per light.

4. Repeat the procedure for all other lights, taking care not to damage them when removing them from the frame structure.



Frame Disassembly

The frame structure is disassembled from the ground to the ridge and from end to end.

1. Remove the purlins **(1)** at the eaves **(2),** then remove the door header **(3)** and cable header **(4)** assemblies.

2. Remove the ridge purlins, starting from one end and moving to the other, **(5)** ensuring personnel are in place to lower the arch assemblies **(6)** to the ground.

3. Ensure that all packed transport covers are collected at one location to be ready for shipment or storage.

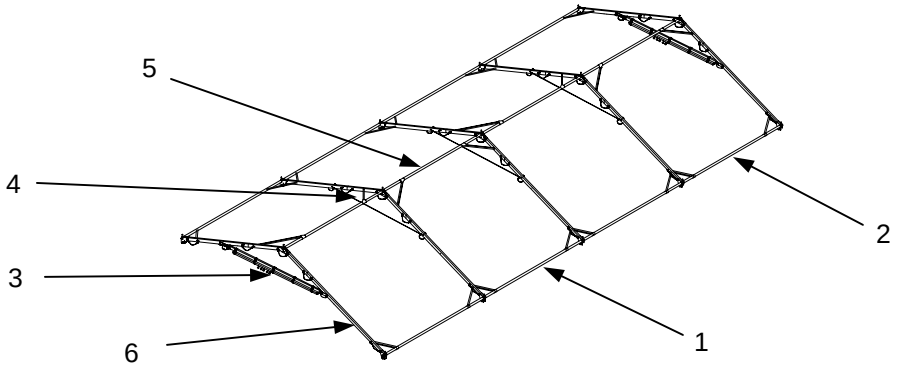
WARNING

Ensure sufficient personnel are available and placed properly to prevent any frame assemblies from falling when being disassembled. Use care when carrying or swinging assemblies around or carrying them to their transport bags. Be aware of personnel nearby. Failure to comply may cause serious injury or death to personnel.

4. Pull the quick release pins and remove the upper arch assemblies from the lower arch assemblies.

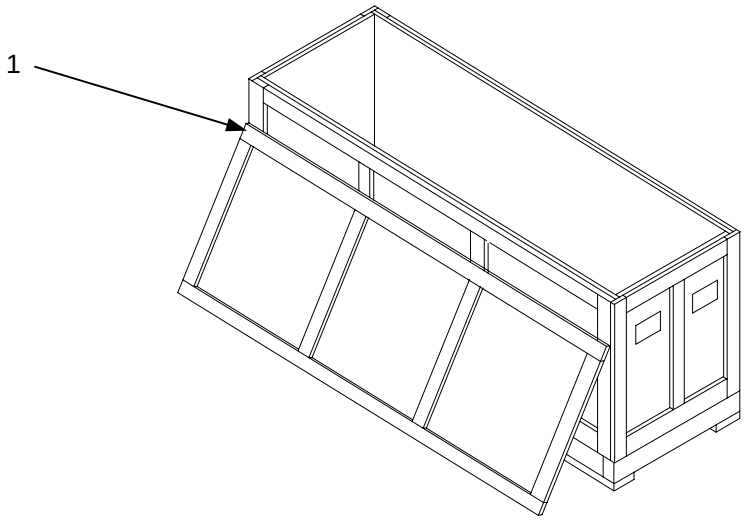
5. Fold the lower arch assemblies and secure them with the attached straps.

6. Pull the quick release pins and fold the upper arch assemblies.



Storage and Shipment

If the LME is being prepared for storage, ensure that all components are clean and dry before packing them into the transport bags. Assemble and inventory all components using the components of end item listing (Work Package 0049 00) of this manual. After all components are accounted for, pack the transport bags into the shipping crate **(1)** in which the LME was delivered, or a suitable substitute. Store the crate **(1)** in a dry place if possible.



END OF WORK PACKAGE

OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 5410-01-512-6867, TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
OPERATION UNDER USUAL CONDITIONS

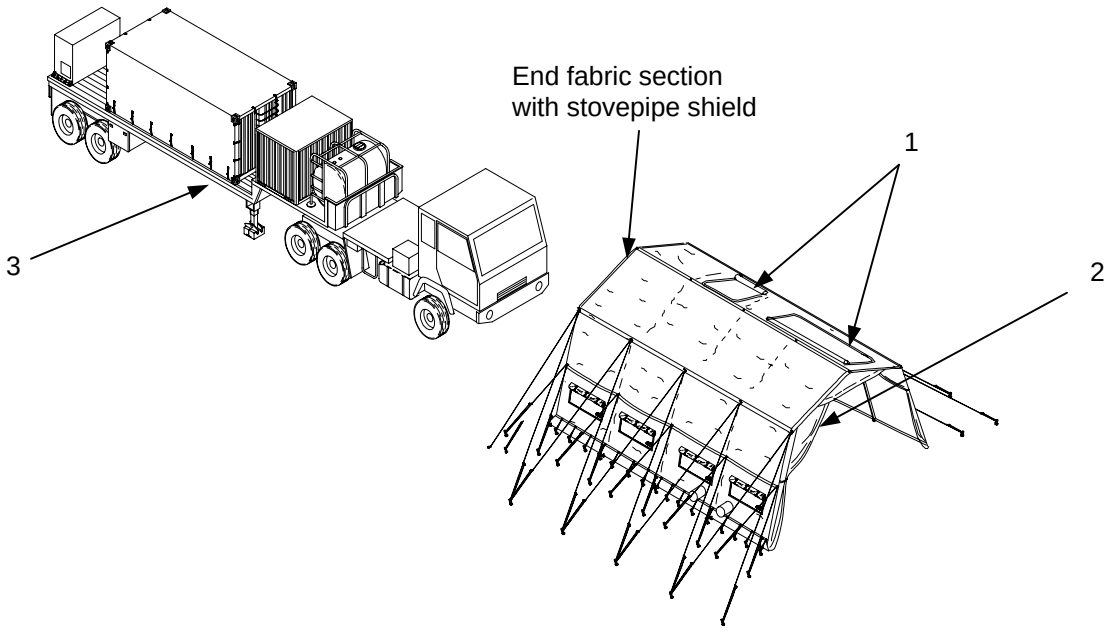
SET UP AND OPERATION OF THE TYPE II LME WITH LAUNDRY ADVANCED SYSTEM (LADS)
The Type II LME is a standard Type I LME frame, with unique end fabric panels and intermediate fabric panels, which meet the requirements of the Laundry Advanced System (LADS). The installation and lacing of the panels is identical to that of the Type I LME.

Refer to WP 0005 00, LME Type I, Operation Under Usual Conditions for assembly and preparation for use of the LME. Use the fabric sections provided with the LME Type II in place of the standard Type I LME fabric panels.
Assemble the intermediate fabric sections with the 7-foot vent and 10-foot vent, **(1)** oriented as shown below.

NOTE

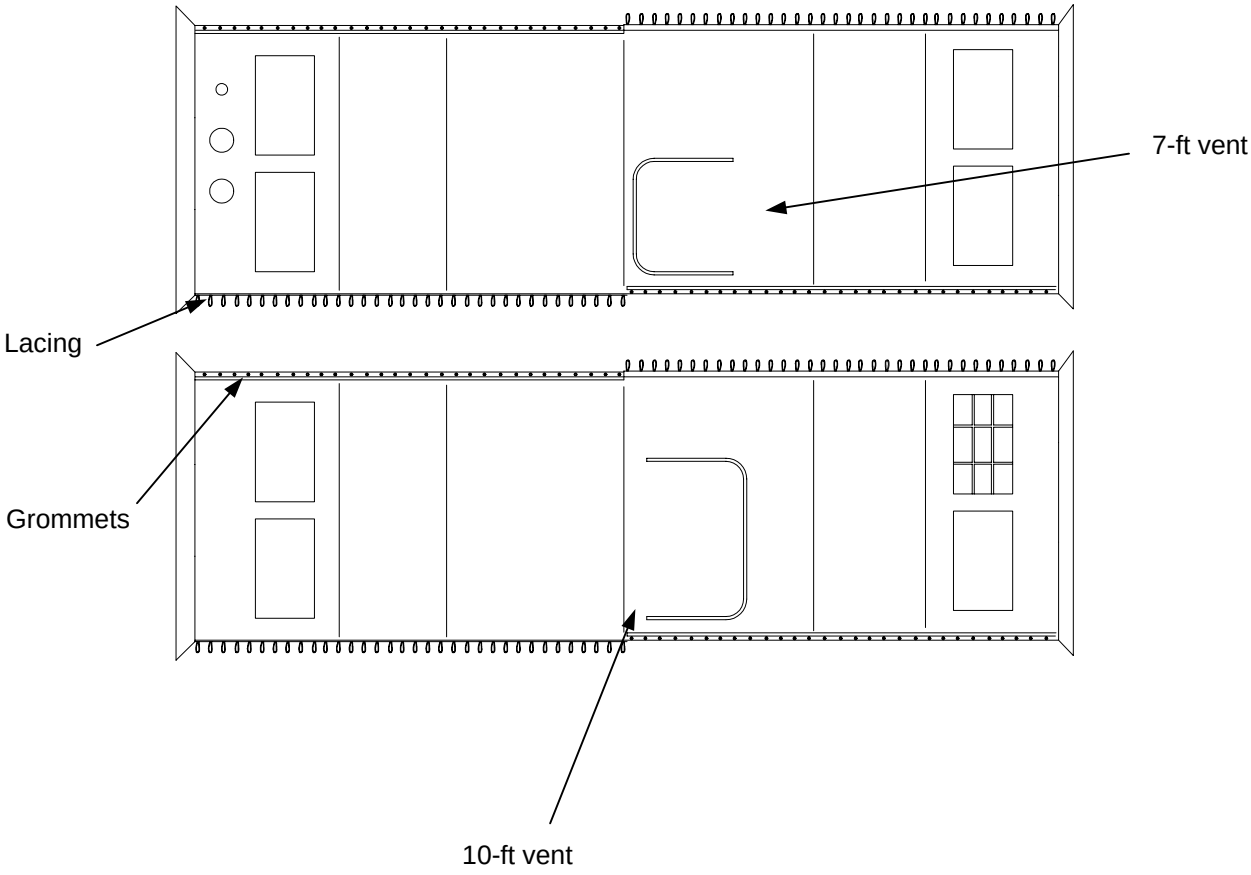
Observe all warnings and cautions in WP 0005 00 of this manual when erecting the Type II LME. Refer to TM 10-3510-221-24 for information pertaining to the setup and operation of LADS.

1. With the LME Type II erected, open the vehicle doors **(2)** at both ends of the LME and tie them back.
2. Center the vehicle with the mounted LADS **(3)** centered with the open end of the LME.
3. Drive or back-in the vehicle through the LME, keeping the vehicle aligned with the center of the LME.



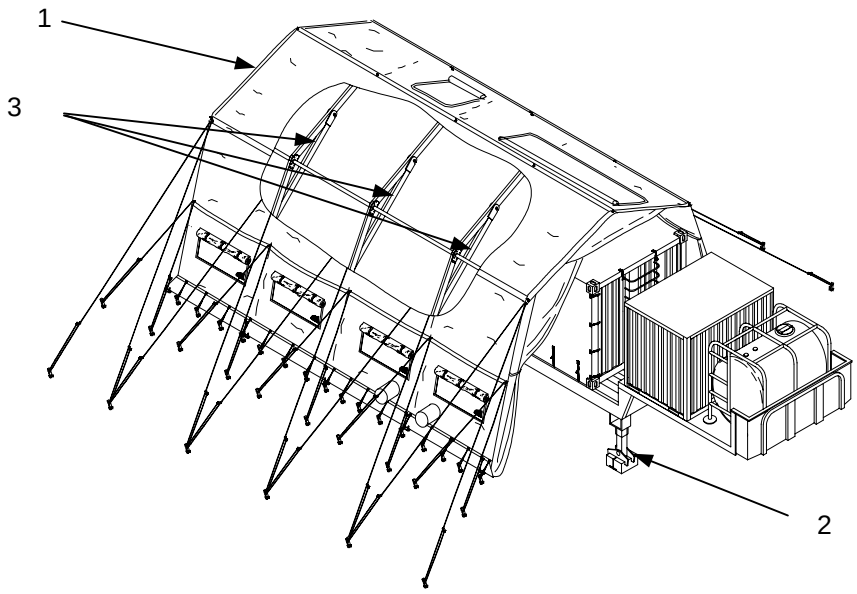
NOTE

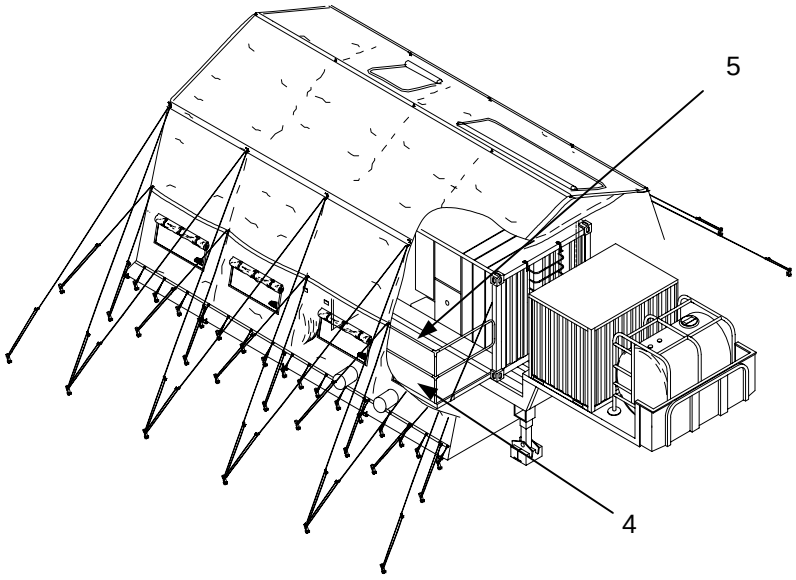
Ensure that the 7-ft and the 10-ft vents are positioned on the same side of the tent. If you are driving through the tent, the fabric section with the 7-ft vent should be first and then the fabric section with the 10-ft vent should be next.



LME Type II Intermediate Fabric Panel Orientation

4. Position the back end of the LADS unit trailer approximately two feet from the end **(1)** of the LME.
5. Open the LME vehicle doors at that end **(1)**.
6. Lower the support legs **(2)** to stabilize the LADS unit.
7. Remove the three interior side assemblies **(3)** from the LME.
8. Lower the LADS working platform **(4)**, and erect the guard rails **(5)** in accordance with TM 10-3510-221-10.





9. Untie the left vehicle door **(6)** and fit the reinforced cutout **(7)** around the trailer frame.

10. Untie the right vehicle door **(8)** and fit the reinforced cutout **(9)** around the vehicle frame. Seal the hook and loop closures **(10)** around the reinforced cutouts.

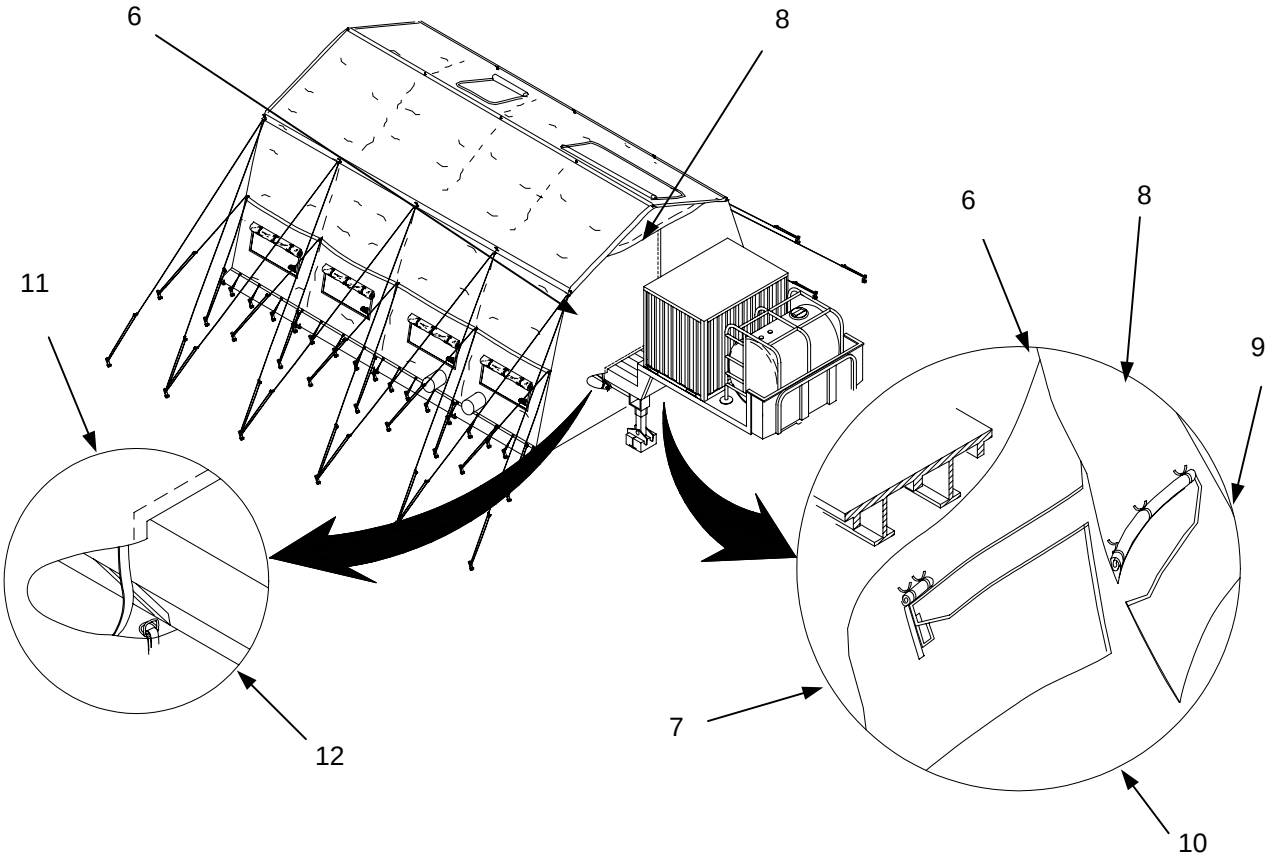
11. Use either one of the LME personnel doors to access the interior of the LME for setup and operation of the LADS.

12. Secure the LME Type II support straps **(11)** on both sides to the trailer frame **(12)** (angular support frame member).

13. Refer to WP 0005 00, LME Type I, Operation Under Usual Conditions, to stake the LME.

NOTE

The LADS awning and auxiliary lighting will not be used in this application. Use the lighting provided with the LME. Install lighting in accordance with TM 10-3510-221-10. The LME lighting is powered from the auxiliary power connector on the LADS generator.



Positioning the LME in Preparation for Striking

1. Remove the structural straps **(11)** that are wrapped around the trailer members **(12)**.

2. With the proper number of personnel, lift and shift the LME until it is centered over the LADS. Ensure that the LADS will clear the ridge of the LME.

NOTE

Use the available side assemblies to lift the LME vehicle doors so that the LADS will clear the tent.

3. Carefully drive the LADS trailer out of the LME.

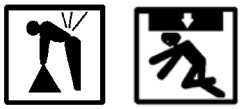
4. Lower and re secure the personnel doors.

5. Re secure the hook and loop fasteners for the end fabric panel.

END OF WORK PACKAGE

SET UP AND OPERATION OF THE 8-FOOT EXTENSION ASSEMBLY KIT

The 8-foot extension assembly kit is attached to a standard 32-foot Type I LME using the 8-foot intermediate fabric panel included in the kit and associated frame components, which adds 8-ft to the length of the structure.



WARNING

Some of the 8-ft extension assembly kit components are heavy. Four persons are required to unpack the container and position the items. Use material handling equipment of at least 2,000 pounds capacity. Keep away when the container is being moved. Failure to comply may result in serious injury or death.

Unpacking and inventory

Unpack and inventory the 8-ft extension assembly kit upon receipt. At least four persons are required to perform the following steps.

Use the following table as a reference of required contents. Check the condition of components during unpacking, and report any discrepancy to your supervisor.

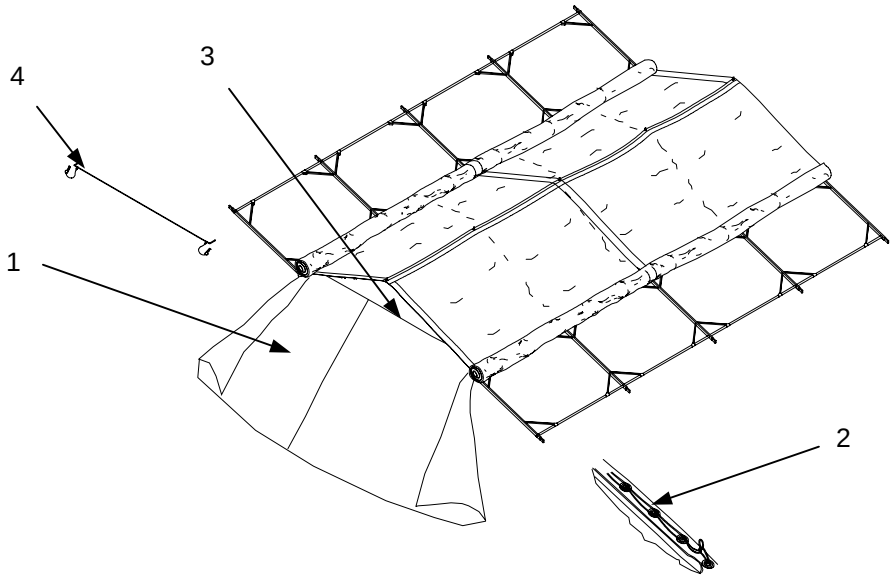
Nomenclature	Qty
Transport Cover, Fabric	1
8-ft Intermediate Fabric Panel	1
Assembly, Light Kit	1
Light Support Strap Assembly	2
Transport Cover, Frame	1
Purlin	7
Upper Arch Assembly	1
Lower Arch Assembly	2
Cable Header	1
Lower Leg	2
Tent Pin Bag	1
Wood Tent Stakes 16 in.	8
Wood Tent Stakes 24 in.	8
Steel Tent Pins 18 in.	4
Guy line w/slip, 14 ft 1 in.	8
Guy line w/slip, 23 ft 1 in.	6
Foot Stop	8

1. Follow the striking procedures in WP 0005 00, LME Type I, Operation of Usual Conditions, steps 1 through 21.

2. Remove one end fabric panel **(1)** by disconnecting the becket lacing **(2)**.

3. Remove the door header assembly **(3)**.

4. Install the cable header assembly **(4)**, provided in the 8-foot extension assembly kit, in its place.



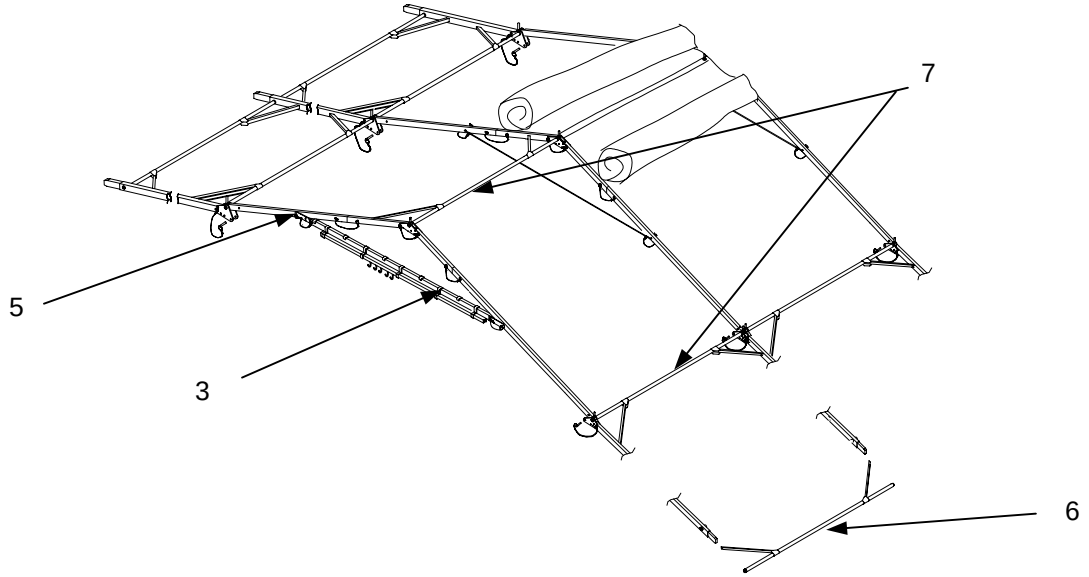
5. Assemble one frame assembly **(5)** as shown in WP 0005 00, Frame Assembly, steps 1 through 4, observing all warnings and cautions.

6. Install the door header **(3)** that was removed into the new structure. Stand the assembly upright.

7. Space the assembly one purlin length **(6)** from the existing LME.

8. Install the Purlins **(7)**.

9. The 8-ft extension assembly frame is now completed.

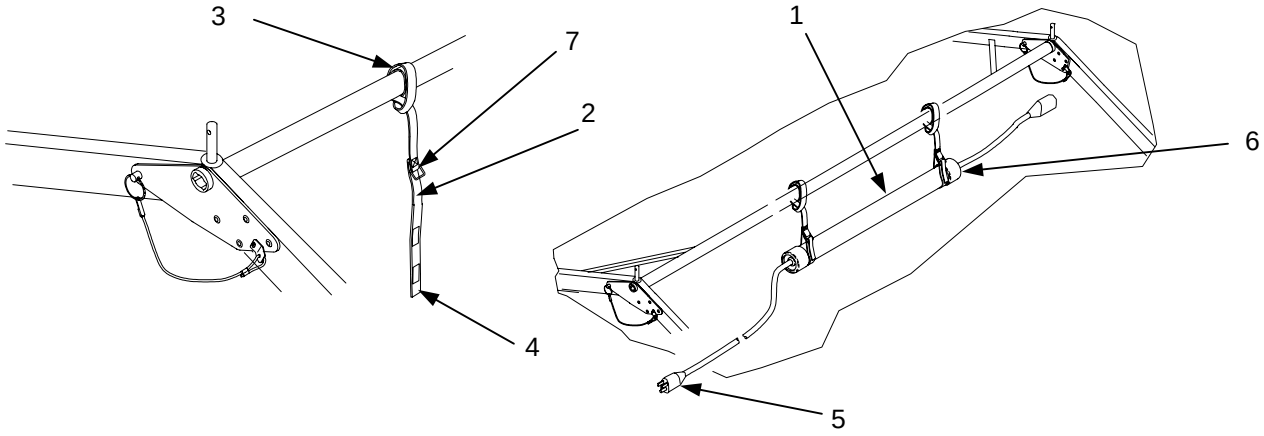


Lighting

1. Install the light assembly **(1)** provided in the kit by laying the looped end of the light support strap **(2)** over the ridge purlin. Insert the free end of the strap through the large loop **(3)** and let the free end **(4)** hang. Repeat the procedure for the second strap.

2. Position the light with the male connector end **(5)** toward the existing light female connector.

3. Wrap a light support strap free end **(4)** under each end of the light, inside the rubber end caps **(6)**, and through the loop strap fastener **(7)**. Engage the pile fastener. Plug the light into the existing light string.



WARNING

Four people are required to perform the following steps. The 8-foot intermediate fabric panel is heavy and awkward. Failure to do so may result in serious injury to personnel.

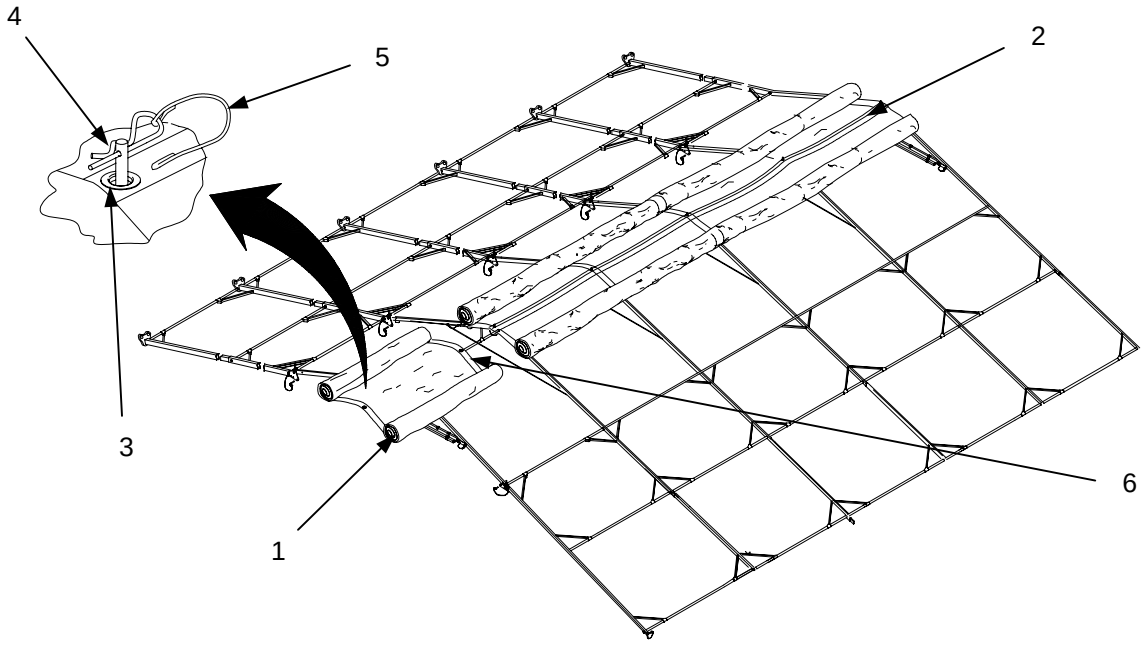
Installing the 8-foot Intermediate Fabric Panel

1. Roll the 8-foot intermediate fabric panel **(1)** up from the ends toward the ridge centerline **(2)**, leaving the ridge center grommets **(3)** exposed.

2. Stepping carefully through the frame, carry the intermediate fabric panel to the ridge.

3. Place the ridge center grommets **(3)** over the ridge pins **(4)** and secure them with the attached hitch clip pins **(5)**.

4. Roll the fabric panel toward the eaves attaching the becket lacing **(6)** to the existing intermediate fabric panel.



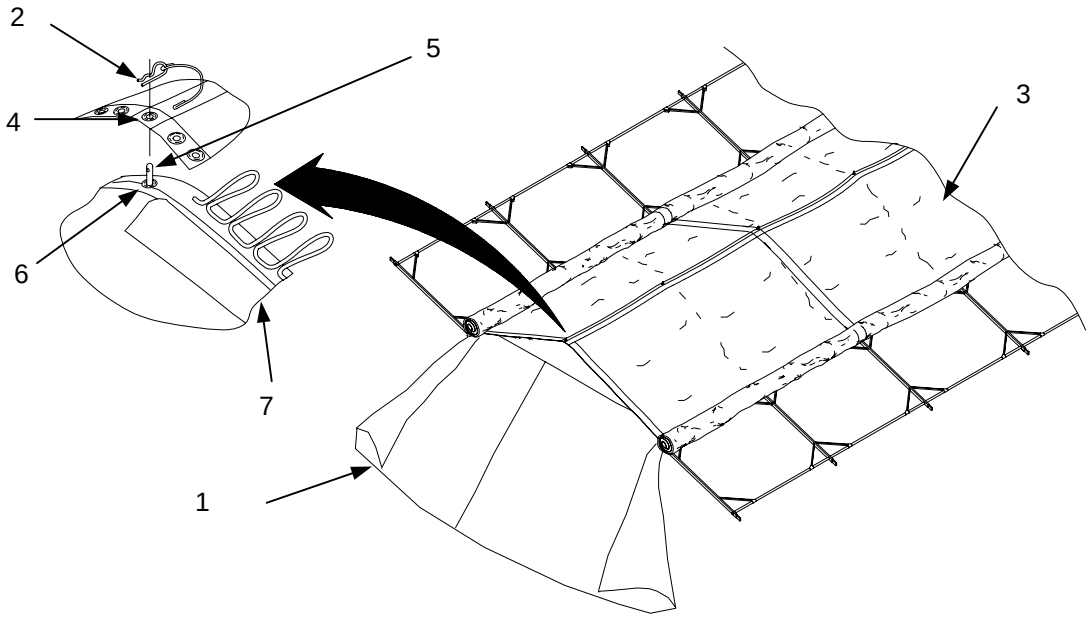
Installing the End Fabric Panel

1. Place the end fabric panel **(1)** that was removed, near the end of the structure.

2. Remove the hitch clip pin **(2)** on the end arch assembly of the existing intermediate fabric panel **(3)** and lift the center grommet **(4)** off the ridge post **(5)**.

3. Place the end fabric panel center grommet **(6)** over the ridge post **(5)** and secure it with the attached hitch clip pin **(2)**.

4. Begin lacing the end fabric panel **(1)** to the 8-foot extension, starting at the ridge and proceeding toward the eaves, closing the weatherseal flap **(7)** as the lacing progresses.



Lifting the structure
Refer to WP 0005 00 Lifting the structure.
The lifting procedures are identical to the Type I LME with the exception of the procedures referring to the power distribution box and the 25-foot cord, which are already installed.

Staking the structure
Refer to WP 0005 00 in this manual, Staking the Structure.
The procedures are identical to the Type I LME with the exception of the addition of one more segment of stakes and guy lines, using those provided in the 8-foot extension assembly kit to secure the 8-foot addition.

END OF WORK PACKAGE

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
OPERATION UNDER UNUSUAL CONDITIONS

OPERATION IN UNUSUAL ENVIRONMENT/WEATHER CONDITIONS

Take precautions to lessen the effect of unusual and potentially dangerous weather or other environmental conditions. The following steps are designed to prevent damage to the LME and avoid possible injury to personnel.

High Winds

During operation in windy conditions:

- Check that all guy lines are in place, taut, and securely staked.
- Close and secure all doors and windows.
- Ensure that the bottom of intermediate and end fabric sections are staked securely to the ground.
- Check the steel pins in the frame assembly feet for security.
- Frequently check all tent pins and guy lines.

CAUTION

The LME should not be operated with one end closed and one open. This causes a "wind sock" effect. Failure to comply may cause damage to the structure.

Rain/Wet Climate

During operation in rain and in wet climates:

- Close and secure all doors and windows.
- Repair known leaks in the fabric sections before heavy rains, using the LME repair kit.
- Keep guy lines relatively loose to allow for shrinking due to dampness, unless high winds are also expected.
- Check the condition of the power distribution box frequently. If the box is wet due to leaks, disconnect the power.
- To minimize the effects of potential flooding, dig a trench around the LME to evacuate water.

Snow and Extreme Cold

During operation of snow and extreme cold climates:

- Remove snow from the roof using a snow rake. Gently push up on the roof from the inside to remove snow that may have accumulated.
- Close and secure all doors and windows.
- When setting up the LME on snow covered ground, either remove the snow or stamp it down to provide a firm footing.

Extreme Heat

During operation in extreme heat conditions:

- Open all doors and tie them back.
- Open all windows and tie up the flaps.

CHAPTER 3

OPERATOR TROUBLESHOOTING PROCEDURES FOR THE LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)

OPERATOR TROUBLESHOOTING PROCEDURES
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-10-512-6868 (TAN)
TROUBLESHOOTING INDEX

GENERAL

This chapter provides operator maintenance information and includes troubleshooting and general maintenance procedures. Refer to appropriate technical manuals for associated equipment maintenance instructions and item-specific troubleshooting instructions (See Work Package 0032 00 for References). Troubleshooting instructions covered in this section are unique to the LME.

MALFUNCTION SYMPTOM INDEX

The malfunction symptom index lists common malfunctions that may occur during inspection and operation of the LME. Find the malfunction and go to the indicated troubleshooting paragraph that follows. The index cannot list all malfunctions that may occur, or all tests or inspections needed to find the fault, nor all actions required to correct the fault. If the existing malfunction is not listed, or cannot be corrected through this troubleshooting index, notify unit maintenance.

OPERATOR MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
TROUBLESHOOTING PROCEDURES

INITIAL SETUP:

Tools
None

Personnel Required
One

Materials/Parts
None

Equipment Condition
Operational

No Power At Distribution Box

Table 1. Troubleshooting Procedure for the LME.

Malfunction	Test or Inspection	Corrective Action
1. No power at the power distribution box.	 **WARNING** Lethal voltage is present when the power distribution box **(1)** is connected to a power source **(2)**. Disconnect the power source before touching any wires in the box. Failure to comply may result in serious injury to personnel.	
	Step 1. Check that the external power supply **(2)** is functioning and properly connected to the power distribution box. Ensure proper connection to the terminal block **(3)**.	Ensure that an external power source (commercial power or a generator, providing 110 VAC), is properly connected to the power distribution box terminal block. Refer to WP 0005 00.
	Step 2. Check the circuit breakers for secure mounting, damage or tripped condition	Reset circuit breakers. If further corrective action is required, notify direct support.

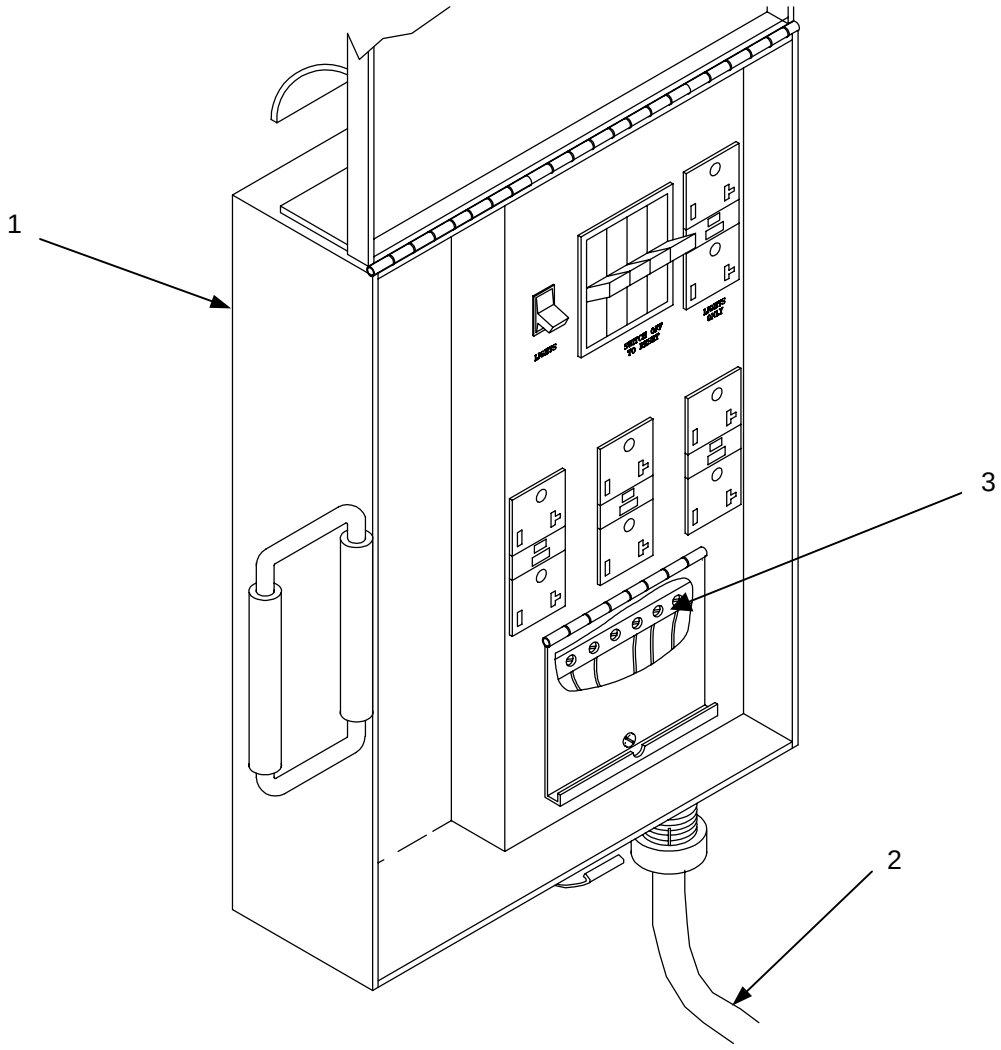

1
2
3

Table 1. Troubleshooting Procedure for LME-(Continued).

Malfunction	Test or Inspection	Corrective Action
2. Lights inoperative.	 **WARNING** Lethal voltage is present when the power distribution box **(1)** is connected to a power source **(2)**. Disconnect the power source before touching any wires in the box. Failure to comply may result in serious injury to personnel.  **WARNING** If the lights are in use, limit the inspection to a visual inspection from the ground to avoid injuries from falling. If light replacement is necessary, use a proper step aid to perform the procedure. Failure to comply may result in serious injury.	
	Step 1. If all the lights are inoperative, check the external power and cable connection to the power distribution box **(1)** as in procedure 1.	Ensure that an external power source (commercial power or a generator, providing 110 VAC) is properly connected to the power distribution box terminal block. Refer to WP 0005 00.
	Step 2. Verify the light circuit breaker **(3)** in the power distribution box **(1)** is turned on.	Reset the light circuit breaker.
	Step 3. If only individual lights **(4)** are inoperative, check the power cords **(5)** for proper connection.	Reconnect power cords.
	Step 4. Check the fluorescent bulbs **(6)** in individual lights.	Replace fluorescent bulbs in individual light as necessary. If condition persists or light circuit breaker activates repeatedly, notify unit maintenance.

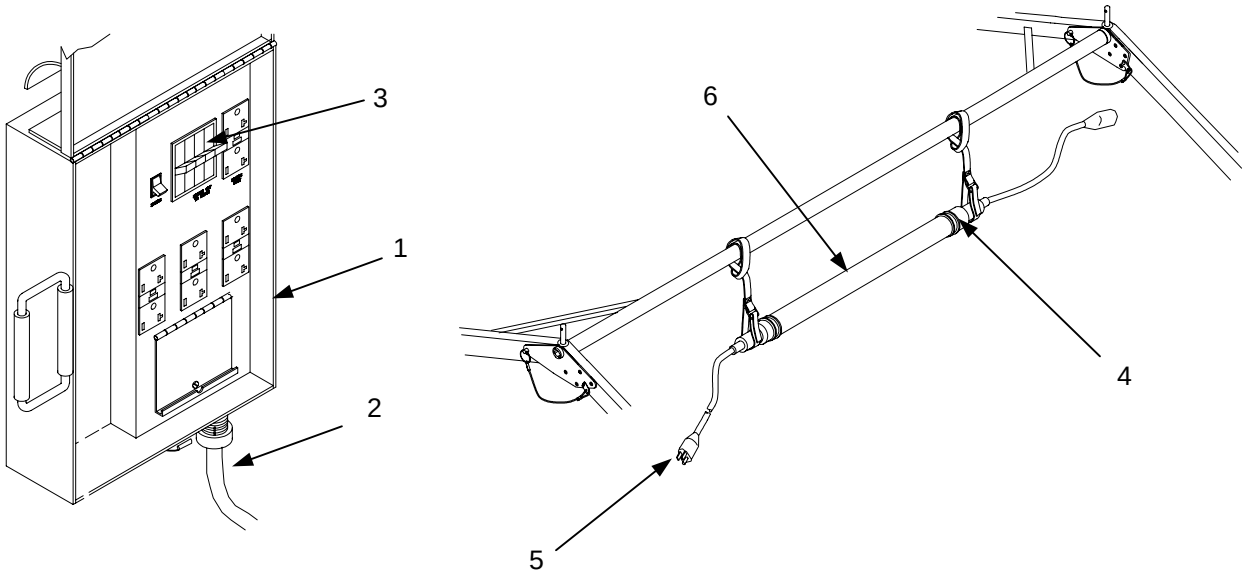

3
1
2
6
4
5

Table 1. Troubleshooting Procedure for LME-(Continued).

Malfunction	Test or Inspection	Corrective Action
3. Power outlets inoperative.	 **WARNING** Lethal voltage is present when the power distribution box **(1)** is connected to a power source. Disconnect the power source before touching any wires in the box.	
	1. If all the power outlets **(2)** are inoperative, check the external power connection **(3)** to the power distribution box.	Ensure that an external power source (commercial or a generator providing 110 VAC) is connected to the power distribution box.
	2. Check that the power outlet circuit breakers **(4)** are not tripped.	Reset power outlet circuit breakers. If condition persists or power outlet circuit breakers activate repeatedly, notify unit maintenance.

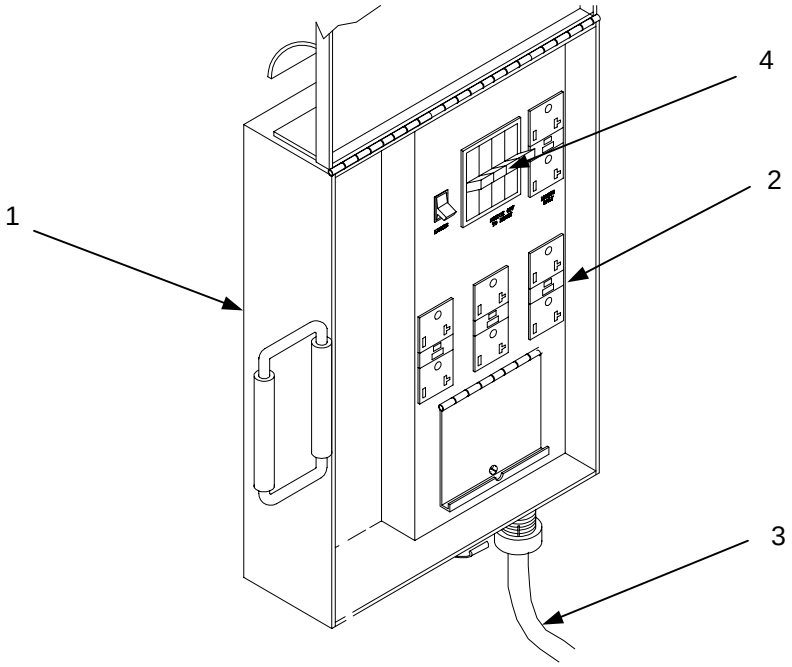


Table 1. Troubleshooting Procedure for LME-(Continued).

Malfunction	Test or Inspection	Corrective Action
4. LME leaking.	1. Inspect the fabric sections For rips, tears or improperly secured wind flaps **(1)**, doors **(2)**, or window flaps **(3)**.	Repair any rips or tears in the fabric sections, located within working height, using the LME repair kit. Follow the directions in WP 0024 00. Secure the doors and wind flaps that are within working height. If rips, tears in fabric, or improperly secured wind flaps are above working height, notify unit maintenance.

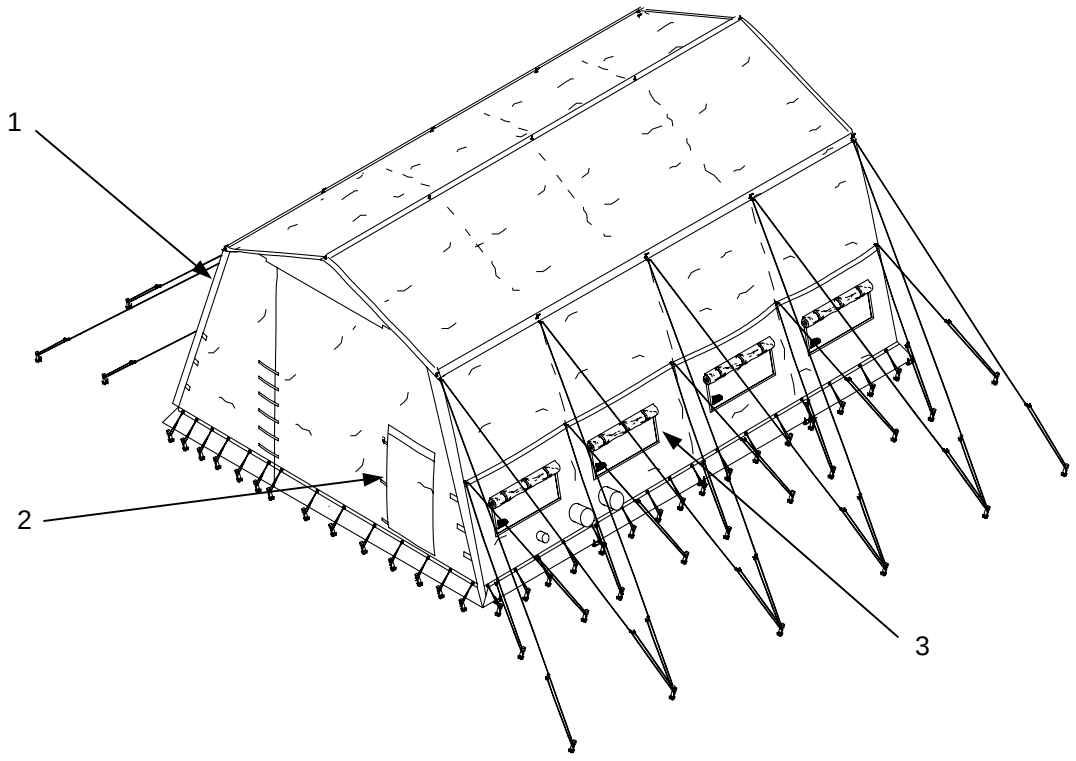


Table 1. Troubleshooting Procedure for LME-(Continued).

Malfunction	Test or Inspection	Corrective Action
5. LME guy lines will not stay taut.	1. Inspect the guy lines **(1)** and tent pins **(2)** for security and proper alignment.	Secure and/or tighten any loose guy lines. Anchor any loose tent stakes or tent pins again. If condition persists, notify unit maintenance.

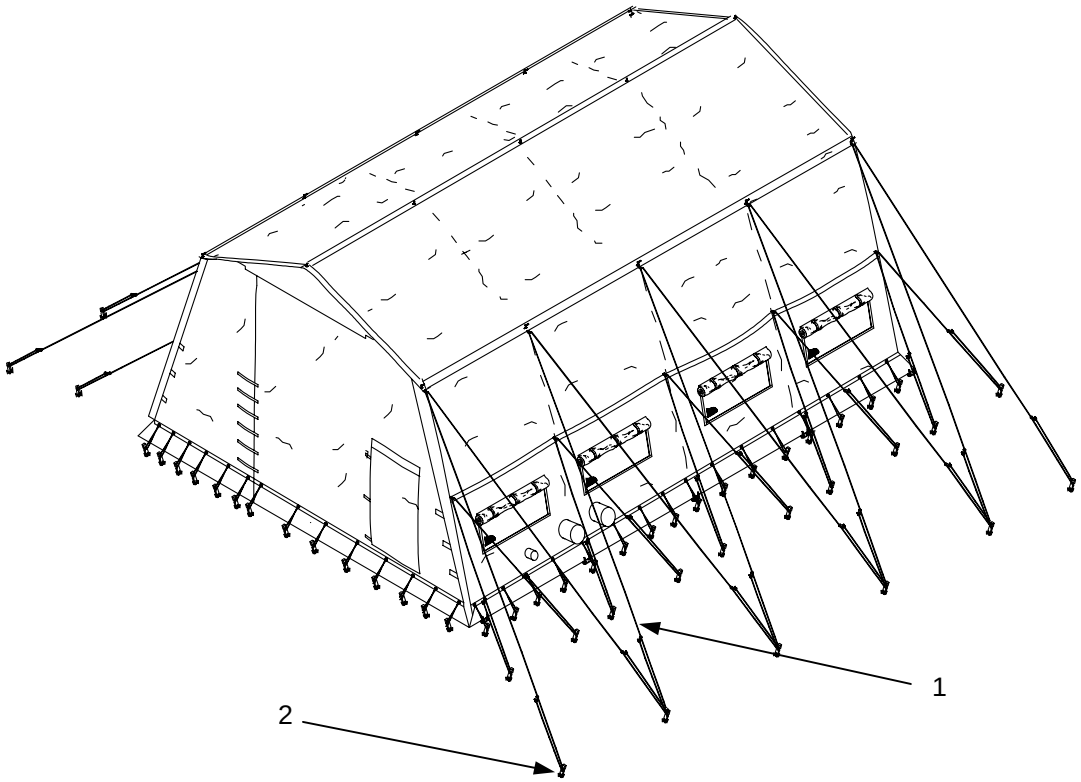


Table 1. Troubleshooting Procedure for LME-(Continued).

Malfunction	Test or Inspection	Corrective Action
6. LME frame components are damaged.	1. Inspect the support frame assemblies **(1)**, cable headers **(2)**, door headers **(3)**, purlins **(4)**, and siders **(5)** for damage.	If support frame assemblies **(1)**, cable headers **(2),** door headers **(3)**, purlins **(4)**, or siders **(5)** are damaged, notify unit maintenance.

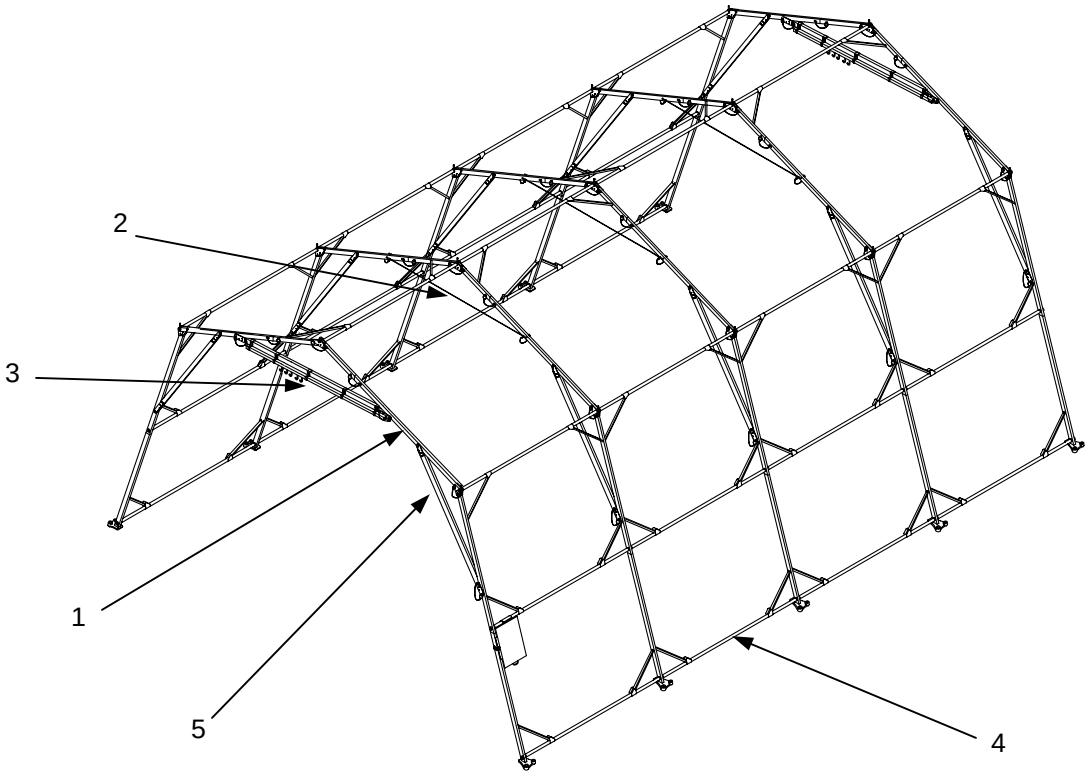
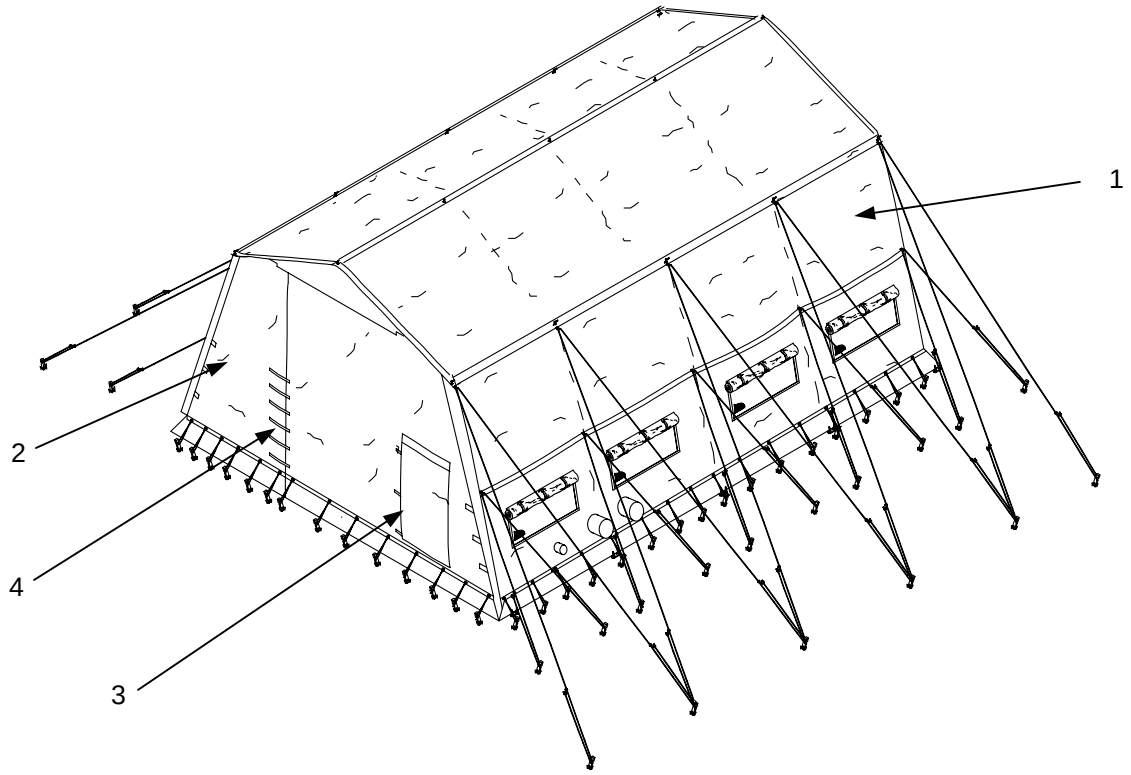


Table 1. Troubleshooting Procedure for LME-(Continued).

Malfunction	Test or Inspection	Corrective Action
7. LME fabric sections damaged.	1. Inspect the fabric assembly intermediate section **(1)**, fabric assembly end panel **(2)**, personnel door **(3)**, and vehicle doors **(4)** for rips or tears.	If the fabric assembly intermediate section, **(1)**, fabric assembly end panel **(2)**, personnel door **(3)**, or vehicle doors **(4)** are damaged, notify unit maintenance.



CHAPTER 4
OPERATOR MAINTENANCE INSTRUCTIONS
FOR THE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)

UNIT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE
NSN 5410-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
SERVICE UPON RECEIPT

INITIAL SETUP:

Tools
Wrecking Bar (WP 0034 00, Table 2, Item 9)
Forklift (4000-lbs)
Hammer, Claw (WP 0034 00, Table 2, Item 2)
Band Cutter (WP 0034 00, Table 2, Item 1)

Personnel Required
Forklift Operator
8 Personnel (Non MOS specific)

Materials/Parts
None

Equipment Condition

UNPACKING

The LME is shipped in one wooden box with a permanently attached four-way entry wooden skid. Its dimensions are 102.5 inches long, 44.5 inches high, and 41.5 inches wide, with a cube of 109 ft^3. The box contains the LME components packed into the transport covers and bags. A 4,000 lb forklift is required to move the box. The following warning **(1)** and caution labels **(2)** are stenciled onto the box:

WARNING

When end loading and unloading is required, LONG FORKS must be used. Serious injury to personnel may result from an unbalanced load.

CAUTION

When stacking, assure boxes are stacked squarely. Damage to the container and equipment will result from structural failure of box.

Using a forklift, place the box containing the LME in an open area, preferably under cover and with sufficient space to facilitate unpacking.

INSPECTION

Conduct a walk-around inspection of the box, noting any damage sustained during shipping or handling. Use the criteria in Table 1 Inspecting criteria for Packaging in this work package. Report all discrepancies in accordance with DA PAM 738-750.

Using a bandcutter, wrecking bar, and claw hammer, open the box carefully without destroying it so that it can be reused. Unpack the box and inventory its contents against the packing slip to see if the shipment is complete. Also inspect the equipment for damage incurred during shipment. Use criteria in Table 2 LME component inspection in this work package. If the equipment has been damaged, report the damage on SF 361, Transportation Discrepancy Report, or SF 368, Product Quality Deficiency Report.

Check the equipment to see if it has been modified. If so, notify your supervisor.

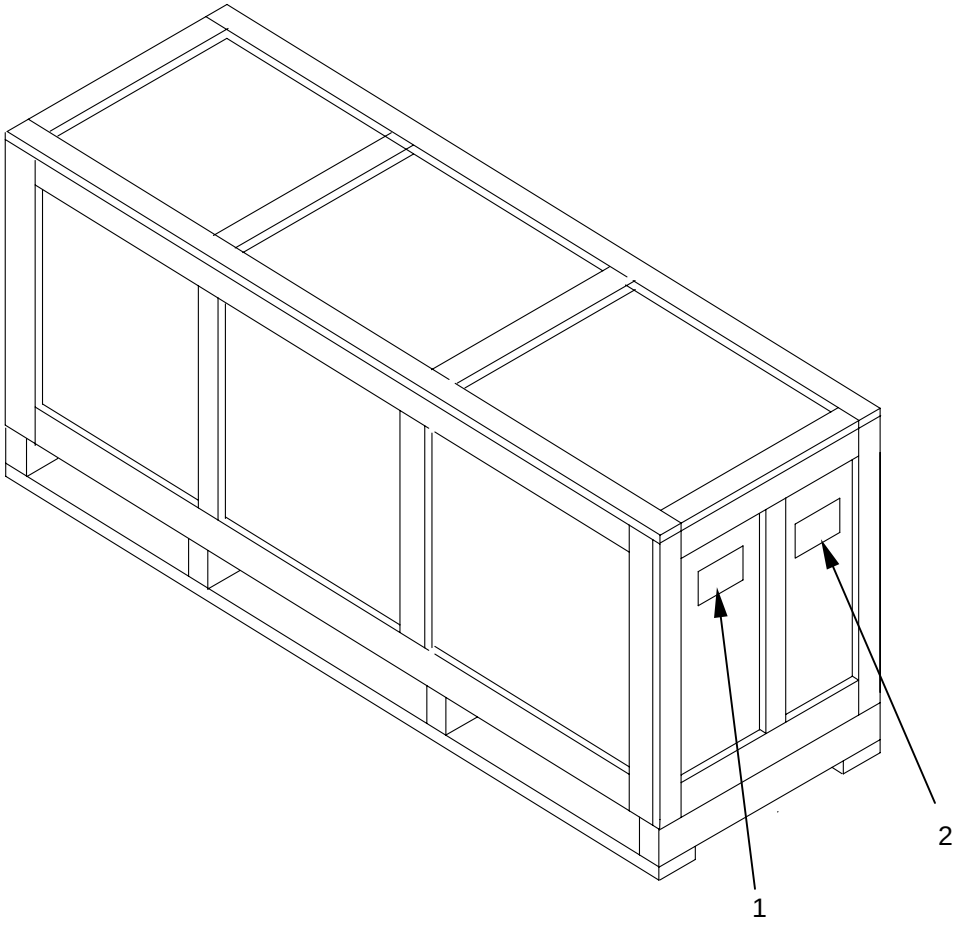

1
2

Table 1. Inspection Criteria for Packaging.

Component	Acceptable	Repairable	Non-repairable
Wooden Boxes and Crates			
Hardware	Operative and tight. Nails, screws, and strapping present and in good condition.	Inoperative or loose. Nails, screws, and strapping that can be replaced or sealed.	None.
Ends	Free from damage.	Broken or missing nails and bands.	Damage that requires disassembly of box.
Wood	Splits less than three inches long, no closer than 1 inch to the edge of the board or adjoining split. The board must be secured by at least one nail on each side of the split when it extends to the end of the board.	Splits more than three inches, but no closer than 1 inch to the edge of the board or adjoining split, or ½ inch wide that can be repaired by use of corrugated fasteners.	Splits closer than 1 inch to the edge of the board or adjoining split or over ½ inch wide.
Fabric and Frame Transport Covers and Tent Pin Bag			
Covers and bags	Fabric has rips or tears less than ½ inch long and at least 1 inch away from a seam. All seams are tightly closed.	Fabric has rips or tears more than ½ inch long and at least 1 inch away from a seam. Some seams are not tightly closed or have thread remnants attached.	Rips and tears are not repairable with LME repair kit.
Handles	Handles are securely attached.	Handles have some loose stitching or thread remnants.	Handles are not repairable with tentage repair kit.

Table 2. LME Component Inspection.

Location	Item	Inspect	Action
1. Fabric Covers	Fabric Sections	Inspect for rips, tears, open seams and condition of hook and pile fasteners, loose or missing grommets or missing/ripped becket loops and fabric discoloration. Inspect for damage to or improper attachment of window components or vehicle door curtain mechanism.	Reject a fabric section that cannot be repaired with a tentage repair kit.
2. Frame covers	Frame sections	Inspect frame sections for damage such as bends and deformations, missing parts, corrosion or loose hardware.	Reject a frame section that does not unfold properly, or has any of the above conditions.
3. Tent Pin Bag	Steel tent pins and wooden stakes	Inspect pins and stakes for correct quantity. Check for splits in wooden stakes and bent steel pins.	Reject entire tent pin bag with above conditions.
4. Power Distribution Box Container	Power Distribution Box	Inspect Power Distribution Box for damage, such as deformities, loose or missing hardware, and corrosion. Check main panel, circuit breakers, and light switch for free and proper operation. Check condition of 25-ft and 10-ft extension cords.	Reject a Power Distribution Box with any of the above conditions.
5. Lights	Lights	Inspect lights for damage to end caps and plastic cover, missing parts such as power cords, and presence of fluorescent bulbs. Inspect extension cord for frayed insulation and missing/damaged plugs.	Reject a damaged light set, or one with any of the above conditions.

END OF WORK PACKAGE

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN) NSN 5410-01-512-6868 (TAN)
PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) INTRODUCTION

INTRODUCTION

Preventive Maintenance Checks and Services (PMCS) are performed to keep the LME in good operating condition and ready for its primary mission. The checks are used to find, correct, and report problems. PMCS is performed every day the LME is in operation, and is done according to the PMCS table provided. Pay attention to **WARNING**, **CAUTION**, and **NOTE** statements. A **WARNING** indicates that someone could be hurt or killed. A **CAUTION** indicates that equipment could be damaged. A **NOTE** may make your maintenance or repair task easier.

Be sure to perform scheduled PMCS. Always perform PMCS in the same order so it becomes habit. With practice, you will quickly recognize problems with the equipment.

Use DA Form 2404, Equipment Inspection and Maintenance Worksheet, to record any discovered faults. Do not record faults that you fix!

PMCS PROCEDURES

Table 1, Preventive Maintenance Checks and Services lists inspections and care required to keep your equipment in good operating condition. It is arranged so that you can perform before operation checks as you walk around the equipment.

Explanation of Table 1 columns

Item Number
Indicates the reference number. When completing DA Form 2404, Equipment Inspection and Maintenance Worksheet, include the item number for the item to check/service indicating a fault. Item numbers appear in the order you must perform the checks/services listed.

Interval
Indicates when you must perform the procedure in the procedure column.

before - perform before equipment operation
during - perform during equipment operation
after - perform after equipment has been operated
weekly - perform every week
monthly - perform each month
hours - perform at the noted hourly interval

Item to be Checked/Serviced
Indicates the item to be checked or serviced.

Procedure
Indicates the procedure you must perform on the item listed in the Item to be Checked/Serviced column. You must perform the procedure at the time specified in the Interval column.

Equipment not Ready or Available If:
Indicates faults which will prevent your equipment from performing its primary mission. If you perform procedures listed in the Procedure column which show faults listed in this column, do not operate the equipment. Follow standard procedures for maintaining the equipment or reporting equipment failure.

Other special entries
Observe all special information and notes that appear in Table 1.

When a procedure is required for both weekly and before intervals, it is not necessary to perform the procedure twice if the equipment is operated during the weekly period.

Common Checks and Cleaning

Cleaning
Always keep the LME clean. Remove dirt, sand, and debris from the interior. The fabric sections must be dry before being stored. Clean all LME components with a soft brush and mild soapy water, then let the fabric air dry.

Bolts, Nuts, and Screws
Check them for obvious looseness, missing, bent, or broken condition on equipment. If you find a bolt, nut, or screw you think is loose, tighten it or report it to your supervisor.

Leakage Definition for Performing PMCS

It is necessary for you to know how fluid leakage affects the status of the equipment. The following are the types/classes of leakage an operator needs to know to be able to determine the status of the water system. Learn these leakage definitions and remember - when in doubt, notify your supervisor.

CAUTION

Equipment operation is allowable with minor leakages (Class I or II).

Class I - Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.

Class II - Leakage of fluid great enough to form drops, but not enough to cause drops to drip from item being checked/inspected.

Class III - Leakage of fluid great enough to form drops that fall from items being checked/inspected.

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
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PMCS, INCLUDING LUBRICATION INSTRUCTIONS

Table 1. Preventive Maintenance Checks and Services for LME.

Item No.	Interval	Item To Be Checked Or Serviced	Procedure	Equipment Not Ready/ Available If:
1	Before	Frame Assembly	Inspect the frame components for damage, such as bends, cracks and dents. Check for missing parts such as quick release pins **(1)** and lanyards **(2)**. Check for free movement of hinged parts **(3)**. Check the lower leg assemblies **(4)** for bends or deformities in the end sleeve, and the feet **(5)**. Check the condition of the eave **(6)** and ridge **(7)** gusset plates. Inspect the upper arch assembly **(8)** for free movement of hinged parts or missing or damaged parts. Inspect the door header **(9)** for bends, deformities, or missing components.	Frame component does not (un)fold. Frame parts bent or deformed. Quick release pins missing or broken. Feet on lower leg assemblies broken.

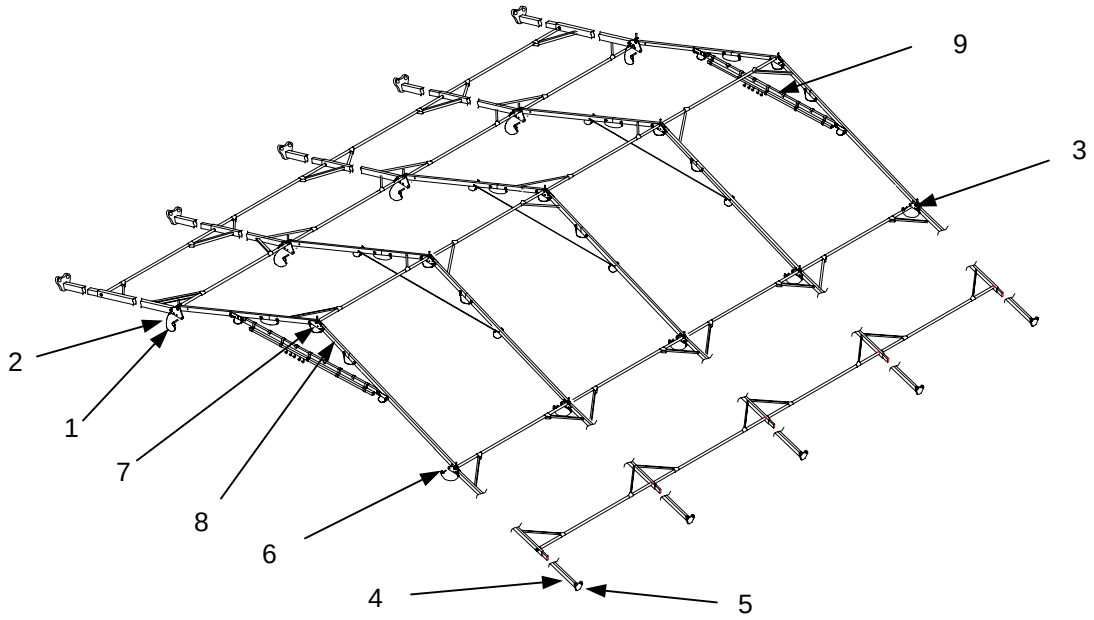


Table 1. Preventive Maintenance Checks and Services for LME - continued.

Item No.	Interval	Item To Be Checked Or Serviced	Procedure	Equipment Not Ready/ Available If:
2	During	Frame Assembly	Visually inspect frame components for damages, such as bends, cracks or dents. Check for missing parts such as quick release pins **(1),** and lanyards **(2)**. Check the lower leg assemblies **(3)** for damage to the feet **(4)**. Check the condition of the eave **(5)** and ridge gusset plates **(6)**.	Frame parts bent or deformed. Quick release pins missing or broken. Feet on the lower leg assemblies broken.

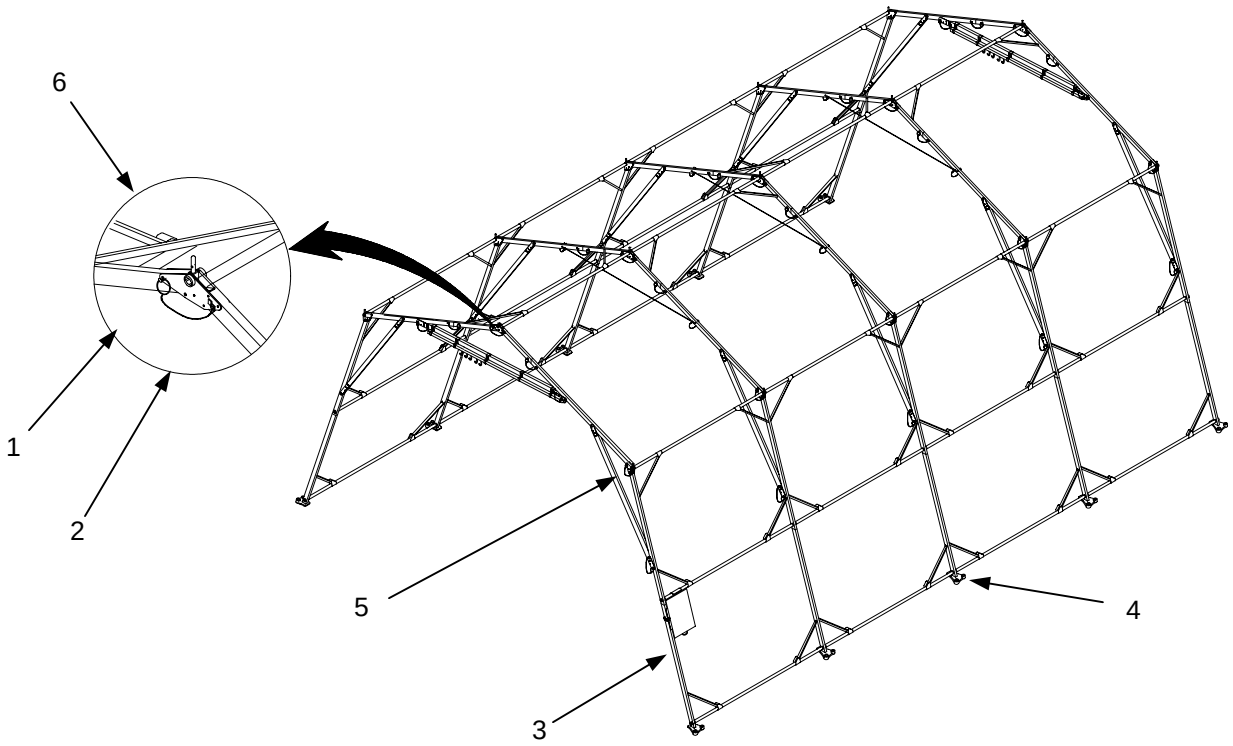


Table 1. Preventive Maintenance Checks and Services for LME - continued.

Item No.	Interval	Item To Be Checked Or Serviced	Procedure	Equipment Not Ready/ Available If:
3	Before, During	Fabric Assemblies	Inspect fabric components for damage such as rips, tears and open seams **(1)**. Check for ripped or frayed web straps **(2)** and missing hardware **(3)**. Check the window components **(4)** for proper operation and condition of the hook and pile fasteners **(5)**. Inspect the becket lace loops **(6)** for fraying. Check for damaged or missing grommets **(7)** and missing hitch clip pins **(8)**. Inspect the foot loops **(9)** for damage or fraying.	Rips, tears or open seams in fabric components. Missing becket loops, hitch clip pins, or torn grommets. Vehicle door inoperable.

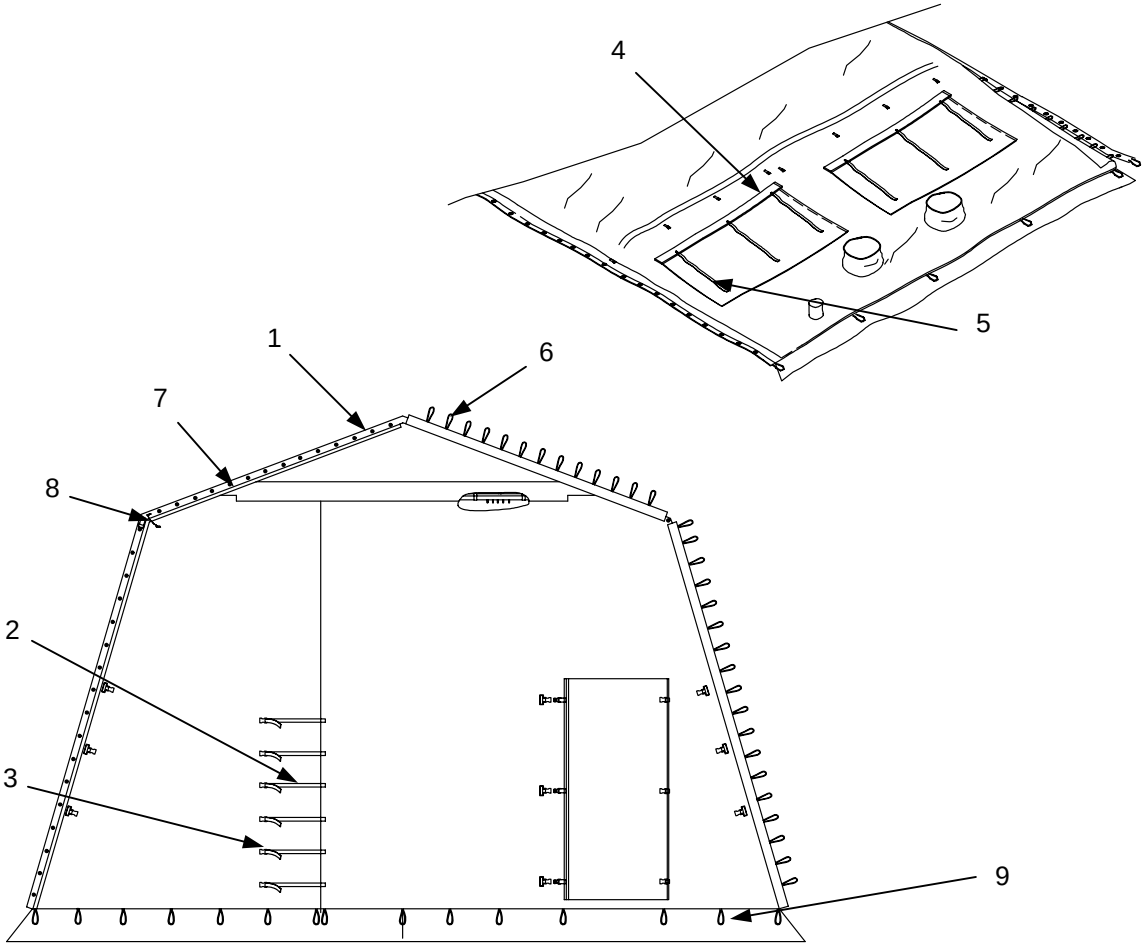


Table 1. Preventive Maintenance Checks and Services for LME - continued.

Item No.	Interval	Item To Be Checked Or Serviced	Procedure	Equipment Not Ready/ Available If:
4	Before, During	Lights	 **WARNING** Lethal voltage is present if the lights are connected to the power distribution box. If the lights are in use during PMCS, limit procedure to a visual inspection. Serious injury or death by electrocution may occur if a live wire is touched. Inspect for missing or damaged components such as plastic covers **(1)** on individual lights, and end caps **(2)**. Inspect for missing or frayed light support straps **(3)** or missing hardware **(4)**. Ensure that light bulbs **(5)** are installed.	Lights are damaged, web strap hangers are missing or frayed, or if hardware is missing. No light bulbs available. Lights inoperative

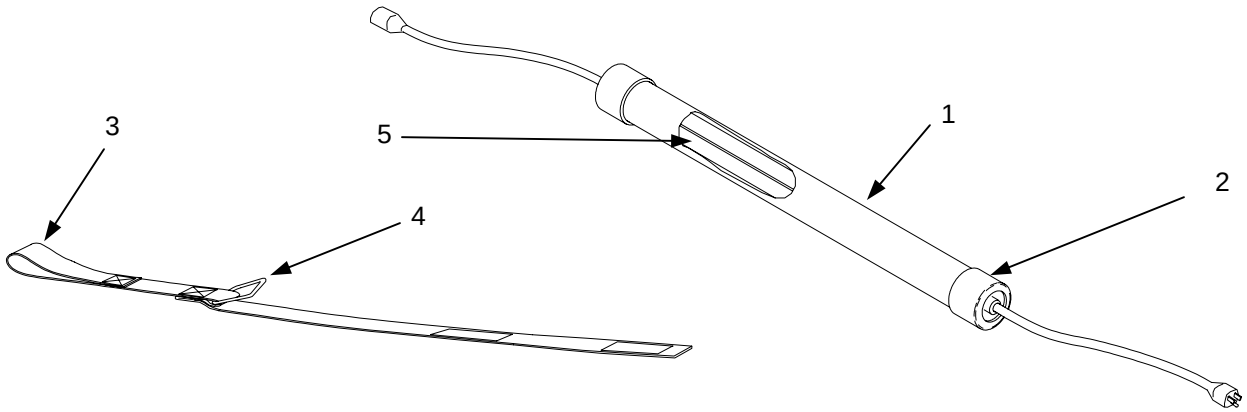


Table-1. Preventive Maintenance Checks and Services for LME - continued.

Item No.	Interval	Item To Be Checked Or Serviced	Procedure	Equipment Not Ready/ Available If:
5	Before, During	Power Distribution Box	 **WARNING** Lethal voltage is present if the power distribution box is connected to a power source. If the box is in use during PMCS, limit procedure to a visual inspection. Serious injury or death by electrocution may occur if component under power is touched.	
			Inspect the power distribution box for external damage to the housing **(1)** and main cover **(2)**. Inspect the condition of the extension cord **(3)**. If the cord is in use during PMCS, inspect it as part of the Lights by checking for frayed areas and/or missing/damaged plugs **(4)**. Check the condition of the power receptacles **(5)**, light switch **(6)** and circuit breakers **(7)**. Check for damage to the terminal block **(8)**.	Housing or main panel is damaged. Light switch, power receptacle, or circuit breaker is inoperative. Terminal block is damaged.

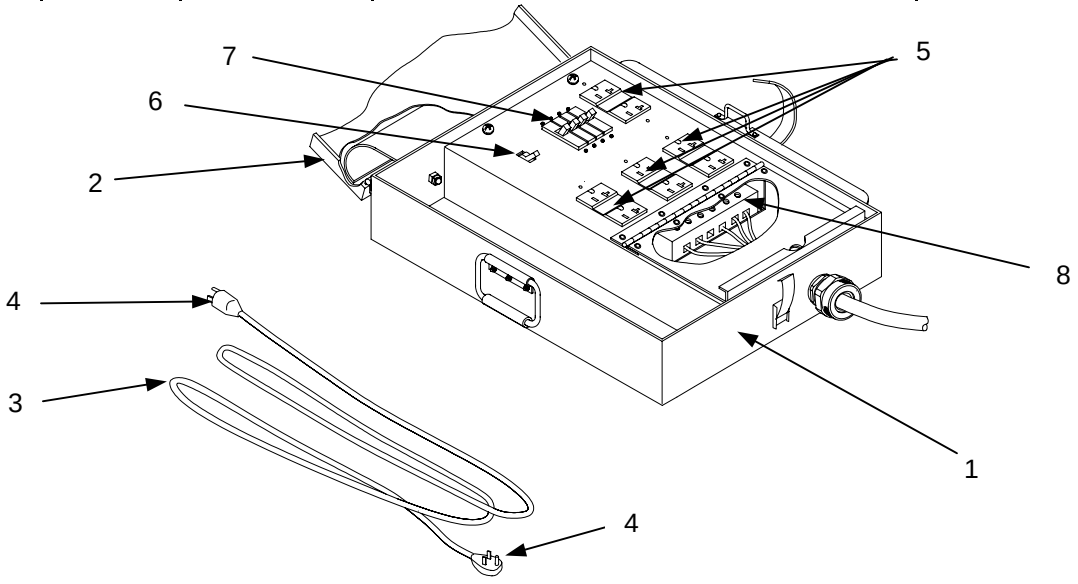
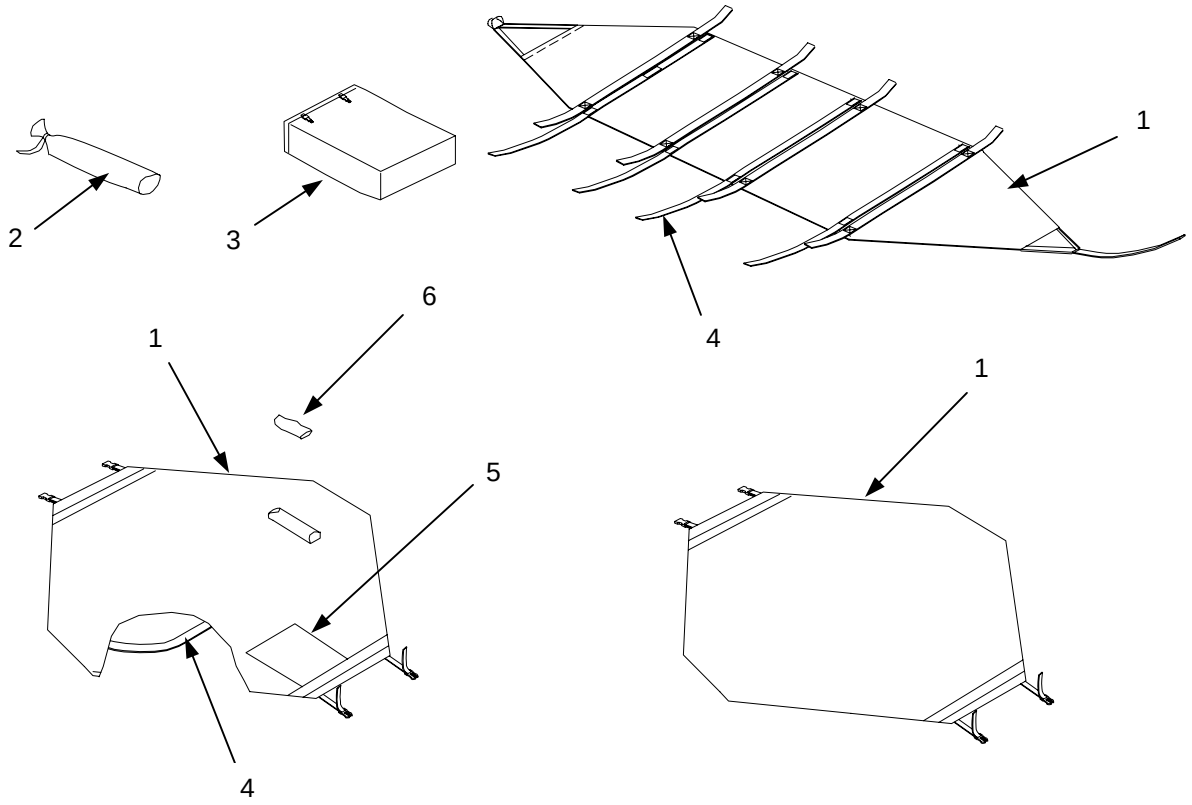


Table-1. Preventive Maintenance Checks and Services for LME – continued.

Item No.	Interval	Item To Be Checked Or Serviced	Procedure	Equipment Not Ready/ Available If:
6	Before	Transport Covers and Bags	Inspect frame and fabric transport covers **(1)**, tent pin bag **(2)**, and power distribution bag **(3)** for rips, tears and open seams. Check for security of handles **(4)** and presence of labels **(5)**. Check the condition of the LME repair kit **(6)** in one of the fabric transport covers **(1)**. Inspect for missing repair parts.	Covers or bags are torn. Seams are open. Handles are missing.



MANDATORY REPLACEMENT PARTS LIST (LME)

Item No.	Part Number	NSN	Nomenclature	Qty
			No Requirements	

OPERATOR MAINTENANCE
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WINDOW ASSEMBLY
INSPECT, REPLACE

INITIAL SETUP:

Tools
None

Personnel Required
Operator

Materials/Parts
None

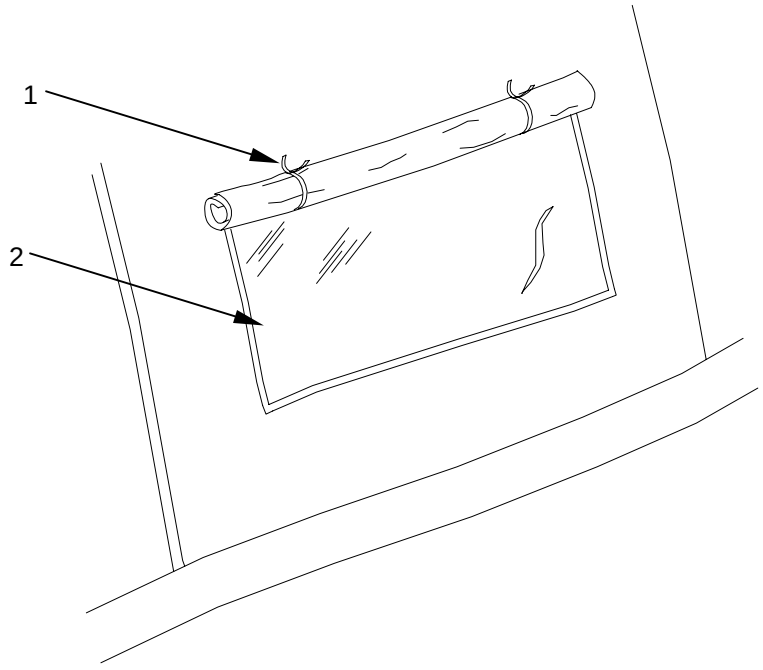
Equipment Condition
LME Operational

GENERAL

This procedure contains information and instructions to keep the LME in good working order by inspecting and replacing a damaged window assembly.

INSPECT

1. Roll the window flap up to expose the top edge of the window and tie it with the tie straps **(1)**.
2. Inspect the window assembly **(2)** for tears, cracking, crazing or any other condition which would render it unserviceable.

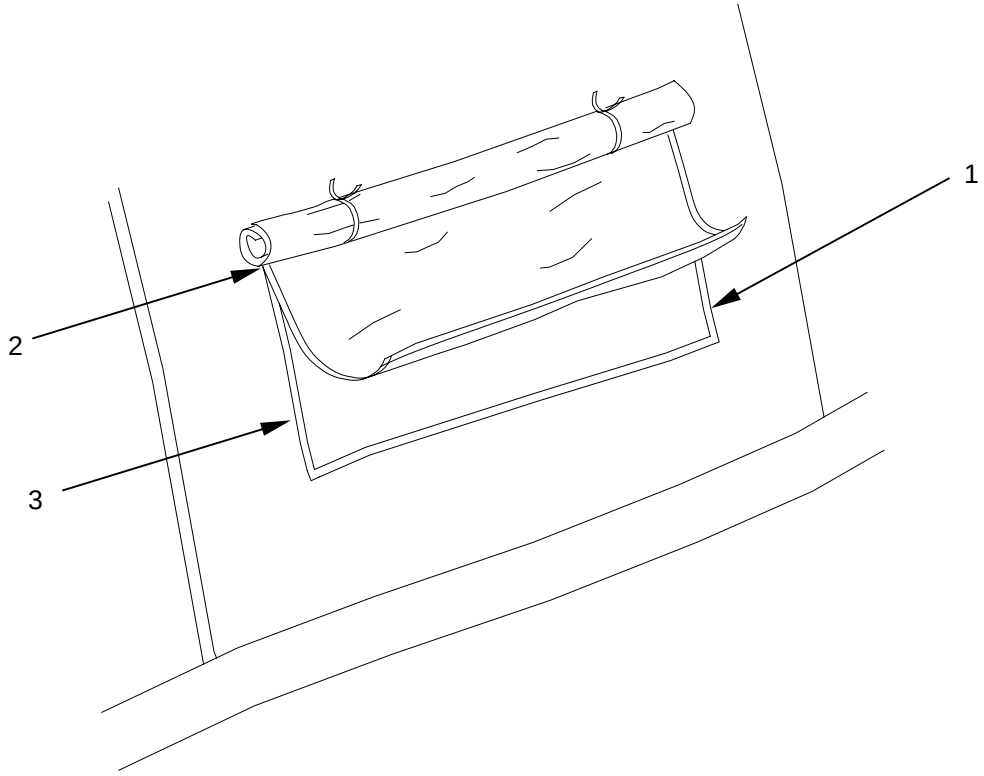


REPLACE

1. Remove the unserviceable window assembly by disconnecting the hook and pile seal **(1)** around the perimeter of the window frame.

2. Align the hook and pile strips **(2)** along the top edge of the replacement window and press in place.

3. Continue pressing down both sides **(3)** and across the bottom of the window until the window is sealed in place.



END OF WORK PACKAGE

OPERATOR MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
CABLE HEADER ASSEMBLY
INSPECT, REPLACE

INITIAL SETUP:

Tools
None

Personnel Required
Operator

Materials/Parts
None

Equipment Condition
Cable Header Assembly Unpacked

GENERAL

This procedure contains information and instructions to keep the LME in good working order by inspecting and replacing a damaged cable header assembly.

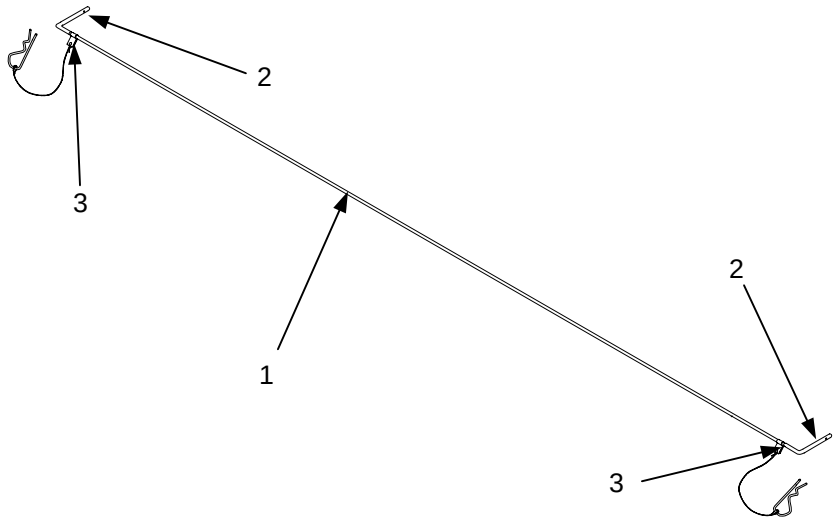
INSPECT

1. Inspect the cable header assembly vinyl covered wire rope **(1)** for fraying, for secure attachment to the cable ends **(2)**, and for security of the compression fittings **(3)**.

2. Check for cracks at the area of the bend in the cable ends **(2)**.

REPLACE

If the cable header assembly is damaged, bent or has frayed wire, replace the entire cable header assembly.



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OPERATOR MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE
NSN 8340-01-456-3637 TYPE I (GREEN), 5410-01-512-6865 (TAN)
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PURLIN
INSPECT, REPLACE

INITIAL SETUP:

Tools
None

Personnel Required
Operator

Materials/Parts
None

Equipment Condition
Purlin unpacked

GENERAL

This procedure contains information and instructions to keep the purlin assembly in good working order by inspecting and replacing a damaged purlin.

INSPECT

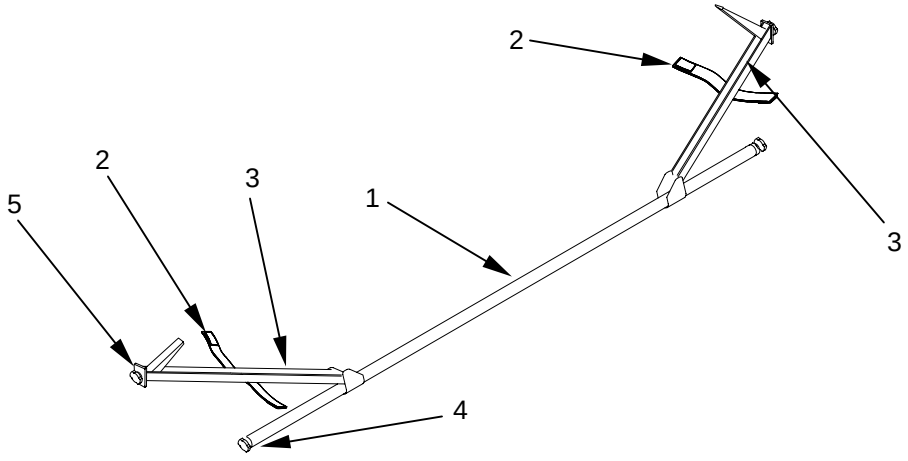
1. Inspect the purlin tube **(1)**, the retaining straps **(2)**, and the diagonal braces **(3)** for bends and deformities.

2. Check the turn-and-lock mechanisms on the purlin tube ends **(4)** and braces **(5)** for proper functioning.

3. Inspect the retaining straps **(2)** for fraying and the hook and pile fasteners for serviceability.

REPLACE

If any part of the purlin is damaged to the extent that the purlin cannot be properly put in place, replace the entire purlin assembly.



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OPERATOR MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
TENT PINS, GUY LINES, AND TENT SLIPS
INSPECT, REPLACE

INITIAL SETUP:

Tools
None

Personnel Required
Operator

Materials/Parts
None

Equipment Condition
LME erect

GENERAL

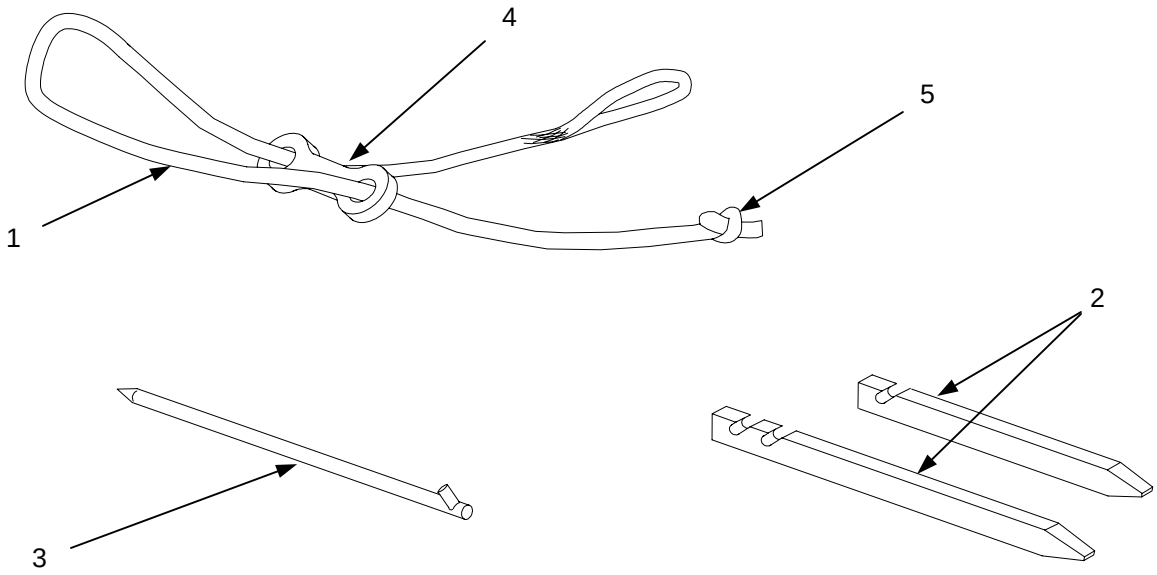
This procedure contains information and instructions to keep the LME in good working order by inspecting and replacing damaged guy lines, tent slips, tent stakes and tent pins.

INSPECT

1. Inspect the guy lines **(1)** for fraying, cuts, or loose knots.
2. Inspect the wood tent stakes **(2)** and steel tent pins **(3)** for wood splitting, dents, or cuts.
3. Inspect the tent slips **(4)** for deformities, cracks, or chips that could damage the guy lines.
4. If these items are damaged or show signs of deterioration, replace as follows.

REPLACE

1. Replace a damaged wood tent stake **(2)** as necessary.
2. Replace a damaged steel tent pin **(3)** as necessary.
3. Undo the knot **(5)** securing the tent slip **(4)** to the guy line **(1)**.
4. Remove the tent slip **(4)** from the guy line **(1)**.
5. Replace a damaged guy line **(1)** or tent slip **(4)** as necessary.
6. Tie an overhand knot **(5)** at the end of the guy line **(1)**.



END OF WORK PACKAGE

OPERATOR MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE
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ASSEMBLY, LIGHT KIT
REPAIR, REPLACE

INITIAL SETUP:

Tools
None

Personnel Required
One

Materials/Parts
None

Equipment Condition
Lights, unpacked or in operation

GENERAL

This procedure contains information and instructions to keep the LME lights in good working order by repairing or replacing individual lights.

WARNING

If the lights are in use, limit inspection of the individual lights to a visual inspection of the lights from the ground to avoid injuries from falls. When replacing the light use a proper step aid. Failure to comply may result in serious injury or death to personnel.

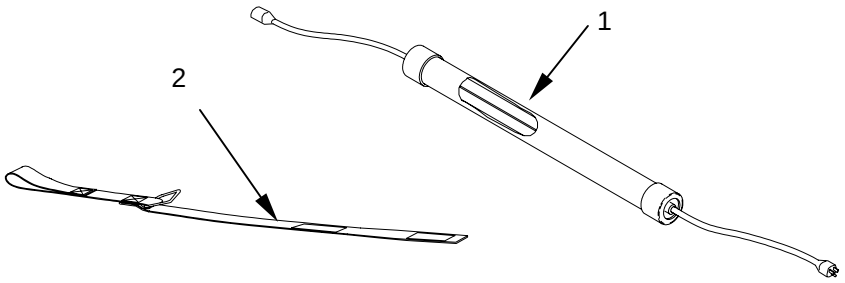
REPAIR

1. Repair the lights by replacing individual components described under the Replace procedure below.
2. If the power receptacle, circuit breaker, or the light switch needs replacing, notify unit maintenance.

REPLACE

1. Replace the light bulbs **(1)** in individual lights as necessary.
2. Replace frayed, ripped, or missing support straps **(2)** as necessary.

3. If the light power receptacle or the light switch needs replacing, notify unit maintenance.



END OF WORK PACKAGE

CHAPTER 5

UNIT MAINTENANCE INSTRUCTIONS
FOR THE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)

UNIT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
UPPER ARCH ASSEMBLY
INSPECT, REPLACE

INITIAL SETUP:

Tools
Tool Kit, General Mechanics (WP 0034 00, Table 2, Item 8)

Personnel Required
One

Materials/Parts
None

Equipment Condition
Upper Arch Assembly unpacked

GENERAL

This procedure contains information and instructions to keep the LME frame assembly in good working order by inspecting and replacing damaged parts on the upper arch assembly.

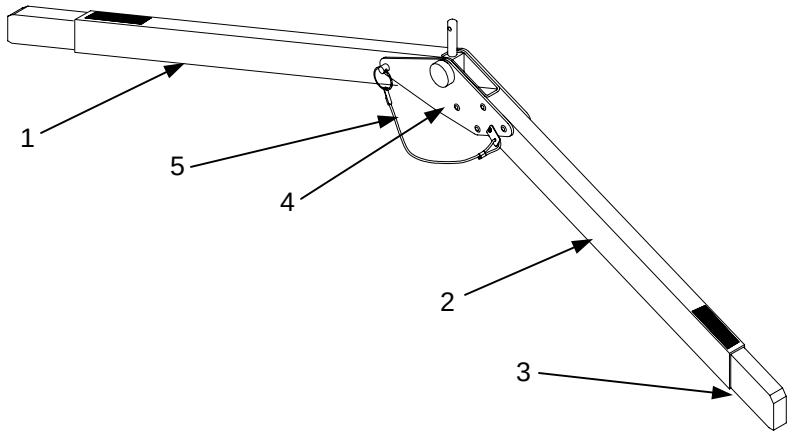
WARNING

Use care when unfolding the frame assemblies. Hands and fingers can be pinched when placed on hinge joints. Failure to comply may result in serious injury to personnel.

INSPECT

1. Unfold and inspect the upper arch assembly left arch segment **(1)** and right arch segment **(2)** for bends, damage to the connectors **(3)**, cracks or deformation in the ridge gusset plates **(4)**, and presence and proper functioning of the quick release pin and lanyard assembly **(5)**. Replace any damaged or missing quick release pin and lanyard assemblies.

2. If the upper arch assembly is damaged, bent, or will not unfold, replace the entire upper arch assembly.

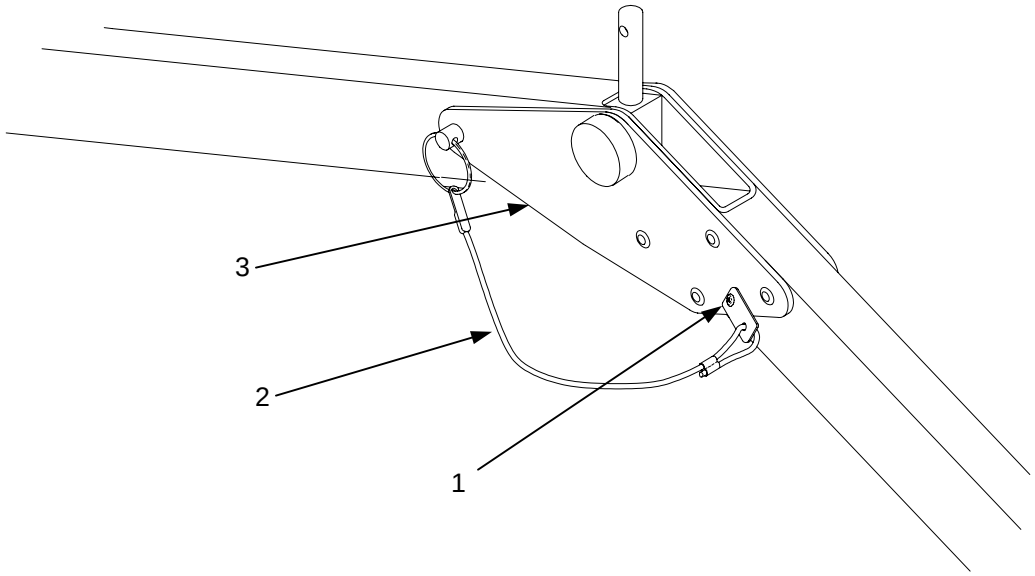


REPLACE

To replace a damaged Quick Release Pin and Lanyard Assembly

1. Remove the screw **(1)** holding the quick release pin and lanyard assembly **(2)** in place on the ridge gusset plate **(3)**.

2. Install a new quick release pin and lanyard assembly **(2)** into the ridge gusset plate **(3)** using the screw **(1)** provided with the new lanyard assembly.



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UNIT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
LOWER ARCH ASSEMBLY
INSPECT, REPLACE

INITIAL SETUP:

Tools
Tool Kit, General Mechanics (WP 0034 00, Table 2, Item 8)

Personnel Required
One

Materials/Parts
None

Equipment Condition
Lower Arch Assembly unpacked

GENERAL

This procedure contains information and instructions to keep the LME frame assembly in good working order by inspecting and replacing damaged parts on the lower arch assembly.

WARNING

Use care when unfolding the frame assemblies. Hands and fingers can be pinched when placed on hinge joints. Failure to comply may result in serious injury to personnel.

INSPECT

1. Unfold and inspect the lower arch assembly, eave arch segment **(1)**, and lower leg arch **(2)** for bends, damage to the connectors **(3)**, for cracks or deformities in the eave gusset plates **(4)**.

2. Check for the presence and proper functioning of the quick release pin and lanyard assemblies **(5)**.

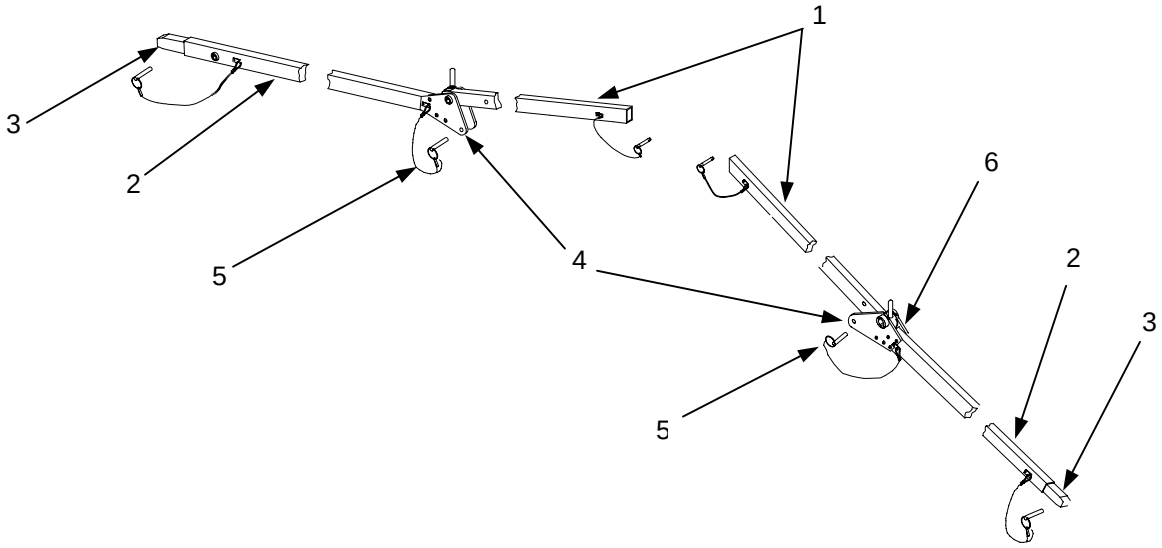
REPLACE

To replace a damaged Quick Release Pin and Lanyard Assembly

1. Remove the screw **(6)** holding the quick release pin and lanyard assembly **(5)** in place.

2. Install a new quick release pin and lanyard assembly **(5)** into the gusset plate **(4)**, using the screw **(6)** provided with the new lanyard assembly.

3. If the lower arch assembly is damaged, bent, or will not unfold, replace the entire lower arch assembly.



END OF WORK PACKAGE

UNIT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
LOWER LEG ASSEMBLY
INSPECT, REPLACE

INITIAL SETUP:

Tools
None

Personnel Required
(1)

Materials/Parts
None

Equipment Condition
Lower Leg Assembly unpacked

GENERAL

This procedure contains information and instructions to keep the lower leg assembly in good working order by inspecting and replacing damaged parts, or the entire lower leg assembly.

INSPECT

Inspect the lower leg assembly for bends or deformities in the end sleeve, and foot.

REPLACE

1. If the lower leg assembly is damaged, or bent, replace the entire lower leg assembly.
2. If the foot is damaged, replace the entire lower leg assembly.

END OF WORK PACKAGE

UNIT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
DOOR HEADER ASSEMBLY
INSPECT, REPLACE

INITIAL SETUP:

Tools
Tool Kit, General Mechanics (WP 0034 00, Table 2, Item 8)

Personnel Required
Unit Maintenance

Materials/Parts
None

Equipment Condition
Door Header Assembly unpacked

GENERAL

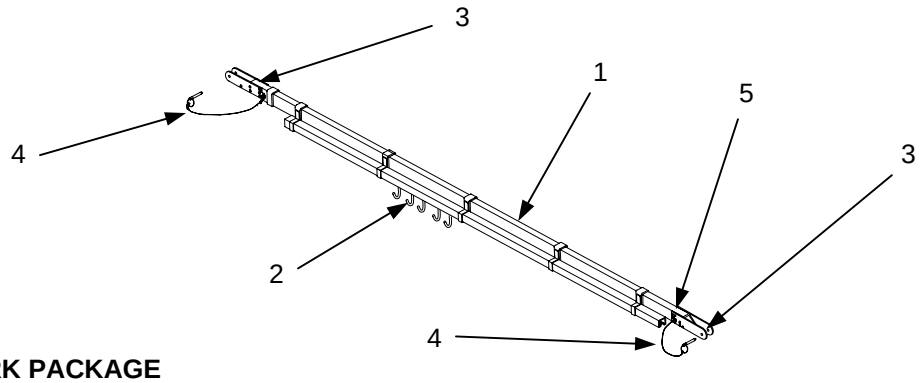
This procedure contains information and instructions to keep the LME frame assembly in good working order by inspecting and replacing damaged parts, or replacing the entire door header assembly.

INSPECT

1. Inspect the door header **(1)** for bends, deformities, or missing components.
2. Inspect the pulleys **(2)** for free movement, or deformities in the end plates **(3)**, and the presence and proper functioning of the quick release pin and lanyard assemblies **(4)**.

REPLACE

1. If the door header assembly is damaged, bent, or the pulleys won't operate, replace the entire door header assembly.
2. If the quick release pin and lanyard assemblies are missing or damaged, remove the screw **(5)** holding the quick release pin and lanyard assembly in place.
3. Install a new quick release pin and lanyard assembly using the screw **(5)** provided with the new lanyard assembly.



END OF WORK PACKAGE

UNIT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
SIDE, ASSEMBLY
INSPECT, REPLACE

INITIAL SETUP:

Tools
Tool Kit, General Mechanics (WP 0034, Table 2, Item 8)

Personnel Required
Unit Maintenance

Materials/Parts
None

Equipment Condition
Side, Assembly unpacked

GENERAL

This procedure contains information and instructions to keep the LME frame assembly in good working order by inspecting and replacing damaged parts, or replacing the entire side assembly.

INSPECT

1. Inspect the side **(1)** and the end plates **(2)** for bends or deformities.

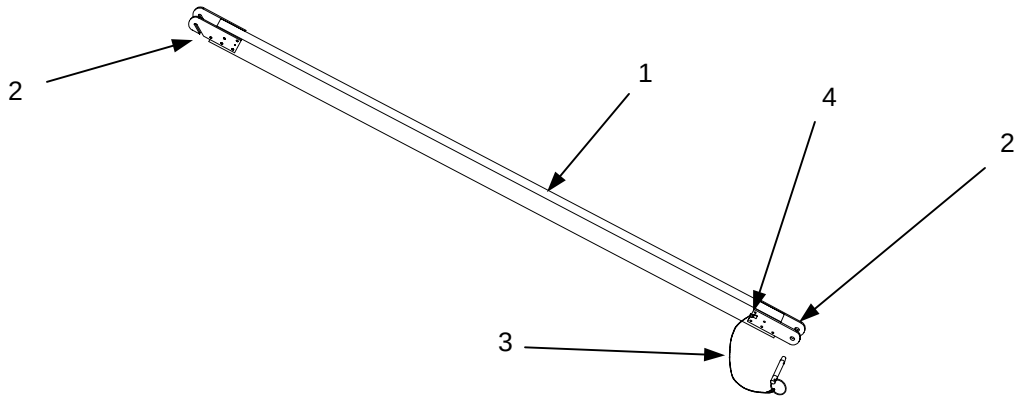
2. Check for the presence and proper functioning of the quick release pin and lanyard assembly **(3)**.

REPLACE

1. If the side or the end plates are damaged or bent, replace the entire side assembly.

2. If the quick release pin and lanyard assemblies are missing or damaged, remove the screw **(4)** holding the quick release pin and lanyard assembly in place.

3. Install a new quick release pin and lanyard assembly **(3)** into the side using the screw **(4)** provided with the new lanyard assembly.



END OF WORK PACKAGE

UNIT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-10-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
FABRIC ASSEMBLY, END PANEL
INSPECT, REPLACE, REPAIR

INITIAL SETUP:

Tools
Repair Kit, Tentage (WP 0034 00, Table 2, Item 4)
Tentage, Repair Kit (WP 0034 00, Table 2, Item 7)

Personnel Required
Unit Maintenance

Materials/Parts
None

Equipment Condition
Fabric Assembly, End Panel, unpacked

GENERAL

This procedure contains information and instructions to keep the LME fabric assembly end panel in good working order by inspecting, repairing, or replacing the entire end fabric panel.

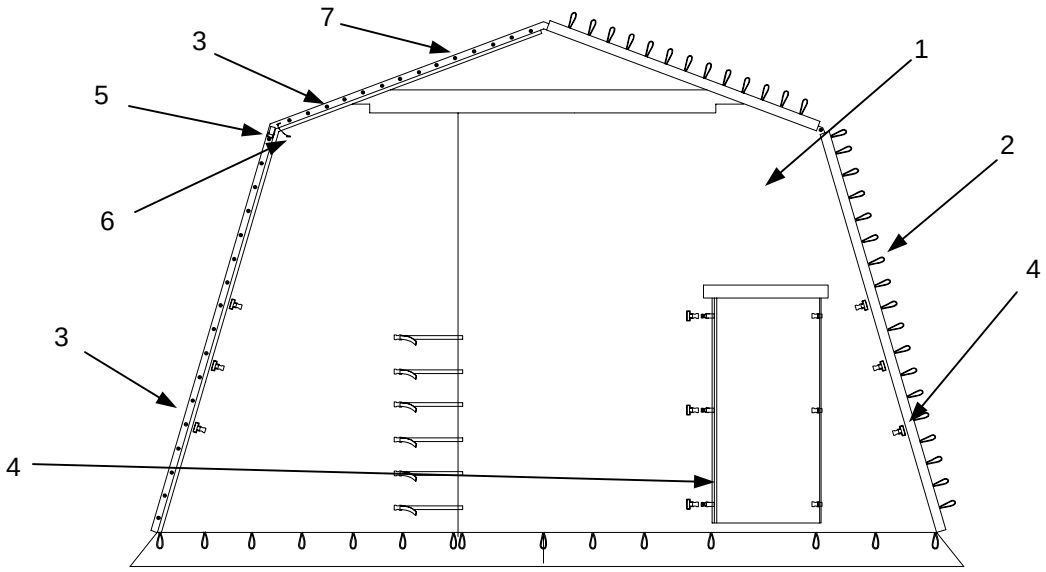
INSPECT

1. Inspect the fabric assembly end panel **(1)** for tears, cuts, perforations and open seams.

2. Check condition of becket loops **(2)** and security and serviceability of grommets **(3)**.

3. Check the serviceability and condition of the hook and pile fasteners **(4)**. Check for presence of D-Rings **(5)** and hitch clip pin and holder assemblies **(6)**.

4. Inspect the seams along the reinforcing webbing **(7)** for security.



REPLACE

If the end fabric assembly has tears or cuts longer than 12 inches, or deteriorated becket loops, replace the entire end fabric assembly.

REPAIR

1. Repair any tears, perforations or cuts in the fabric up to 6 inches long, using the LME Repair Kit. Also make temporary repairs to seam openings (not longer than 6 inches) and loose hardware. Replace the hitch clip pin and holder if necessary.

2. If cuts or tears are less than 12 inches but more than 6 inches are noted, if seams are opening, or if grommets are damaged, refer the fabric assembly end panel to direct support maintenance.

WARNING

Do not repair a fabric panel of an erected LME when it is located above working height. Strike, or lower the LME as described in Chapter 2 to affect repairs above normal working height. Serious injury to personnel may occur from falls.

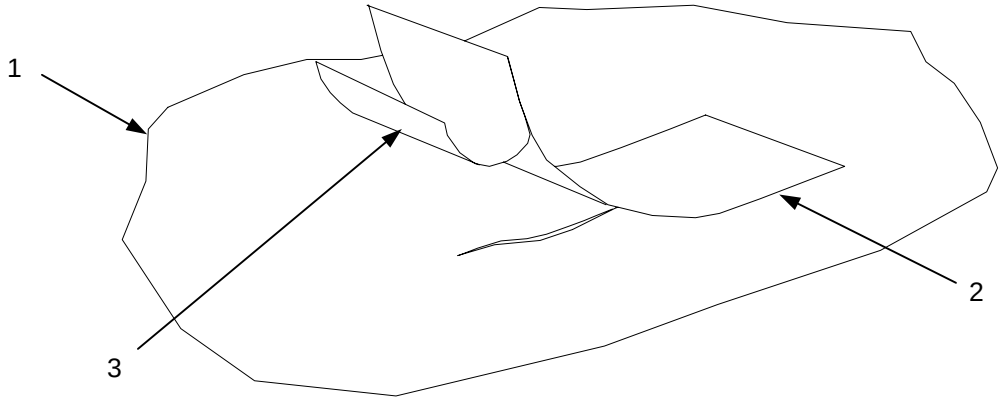
Rips, Tears, Cuts and Perforations
To repair a rip, tear, cut or perforation in the fabric, proceed as follows:

1. Clean the area **(1)** surrounding the damage with a mild cleanser. Do not use harsh chemicals such as Acetone.

2. Locate the LME Repair Kit and the 3 in. wide adhesive tape **(2)** within it. Cut a piece of this tape slightly longer than the area to be repaired.

3. If the LME is in use, station another person on the inside of the panel with a flat hard surface held up against the damaged area to provide a working surface to effect the repair.

4. Peel the protective backing **(3)** off the tape and apply it to the damaged area.



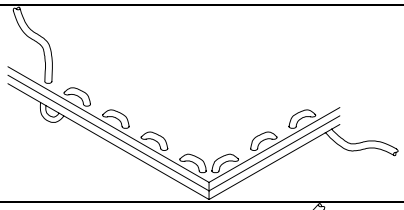
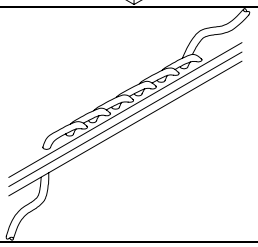
Open Seam and loose Hardware
To make temporary repairs to an open (less than 6 inches long) seam, or re attach loose hardware proceed as follows:

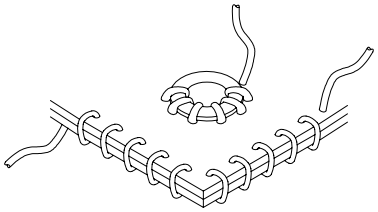
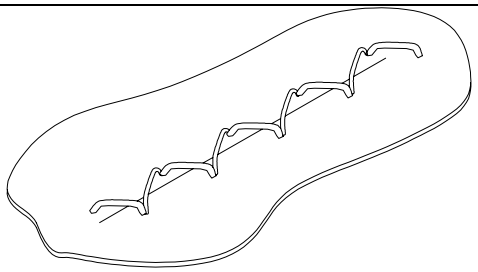
1. Remove any loose thread hanging from the open seam.

2. Locate the LME Repair Kit and find the needle pusher, thread, and needle.

3. Cut a sufficient length of thread and thread it through the needle.

4. Repair the damaged area with one of the common hand stitching methods shown below:

Flat Stitch. Pass the needle over and under an equal amount of material, each successive stitch entering the material from the opposite side.	
Backstitch. Make two small stitches in the same place to secure the cord end. Continue by inserting the needle into the preceding stitch and bringing it out on the same side of the material, one stitch length in advance of the preceding stitch.	

Round Stitch. Use this stitch to temporarily repair grommets or secure other hardware. Insert the thread at right angles to the edge of the material and bring the cord around the edge before making the next stitch.	
Zigzag Stitch. Use this stitch to repair materials that have sustained cut or tear damage, provided the damaged area does not have any material missing and the cut or tear is straight. A zigzag sewing repair will be accomplished using a zigzag sewing machine.	

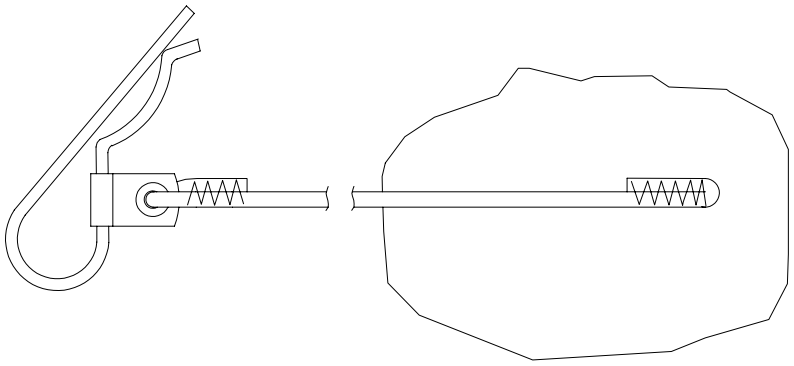
Hitch Clip Pin and Holder
To replace a hitch clip pin and holder, proceed as follows:

1. Remove remnants of old fibrous cord and thread securing the cord, pin, and holder to the panel.

2. Cut a length of new fibrous cord and stitch it to the panel using a zigzag stitch.

3. Thread the holder through the other end of the cord, fold the cord over and stitch it together using a zigzag stitch.

4. Insert the pin into the holder.



END OF WORK PACKAGE

UNIT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
FABRIC ASSEMBLY, INTERMEDIATE PANEL
INSPECT, REPLACE, REPAIR

INITIAL SETUP:

Tools
Repair Kit, Tentage (WP 0034 00, Table 2, Item 4)
Tentage, Repair Kit (WP 0034 00, Table 2, Item 7)

Personnel Required
One

Materials/Parts
None

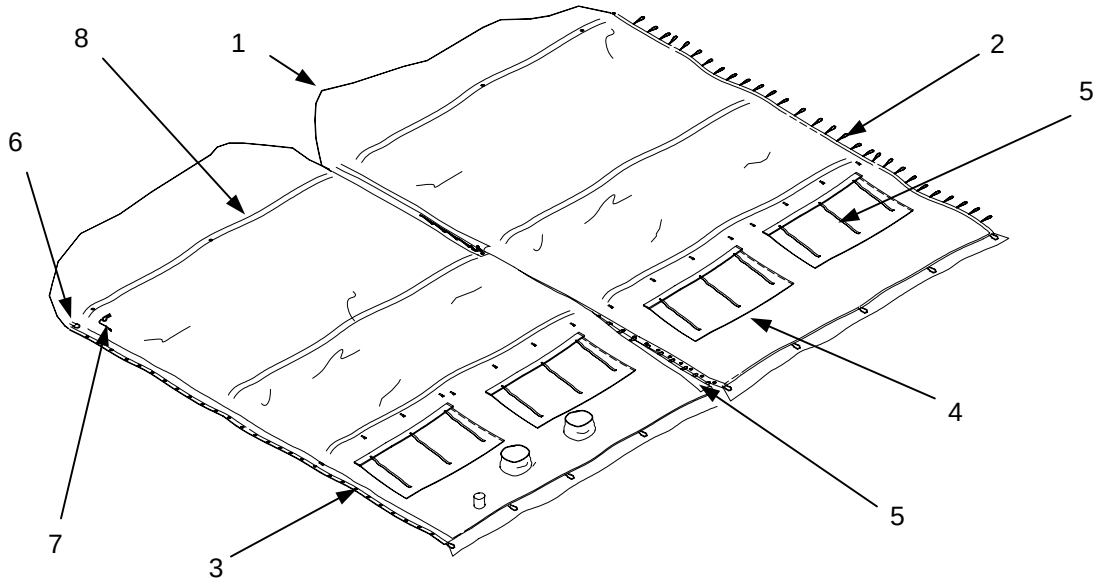
Equipment Condition
Fabric Assembly, Intermediate Panel, Unpacked

GENERAL

This procedure contains information and instructions to keep the LME intermediate fabric panel assembly in good working order by inspecting, repairing, or replacing the entire intermediate fabric assembly.

INSPECT

1. Inspect the intermediate fabric assembly **(1)** for tears, cuts, perforations and open seams.
2. Check the condition of the becket loops **(2)** and security and serviceability of grommets **(3)**.
3. Check the serviceability of windows/screens **(4)** and the condition of hook and pile fasteners **(5)**.
4. Check for the presence of “D” Rings **(6)** and hitch clip pin and holder assemblies **(7)**.
5. Inspect the seams along the reinforcing webbing **(8)** for security.



REPLACE

If the intermediate fabric assembly has tears or cuts longer than 12 inches, deteriorated becket loops, or substantial damage, replace the entire intermediate fabric assembly.

REPAIR

1. Repair any cuts, tears or perforations in the fabric up to 6 inches long using the LME Repair Kit. Also make temporary repairs to seam openings (not longer than 6 inches) and loose hardware. Replace the hitch clip pin and holder if necessary. Windows and screens may be temporarily repaired with tape until replacement windows can be installed.

2. If cuts or tears less than 12 inches but more than 6 inches are noted, seams are opening, or grommets are damaged, refer the intermediate fabric assembly to direct support maintenance.

WARNING

Do not repair a fabric panel or an erected LME when it is located above working height. Strike, or lower the LME as described in Chapter 2 to affect repairs above normal working height. Serious injury to personnel may occur from falls.

Rips, Tears, Cuts and Perforations

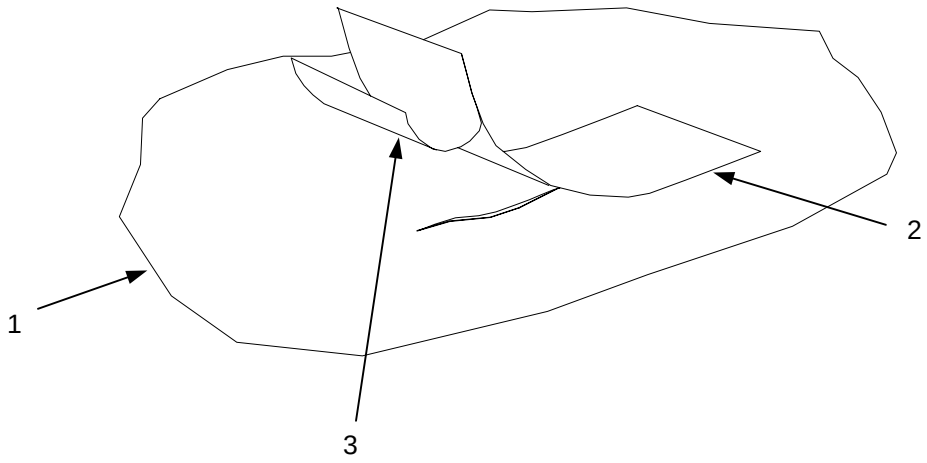
To repair a rip, tear, cut or perforation in the fabric, proceed as follows:

1. Clean the area **(1)** surrounding the damage with a mild cleanser. Do not use harsh chemicals such as Acetone.

2. Locate the LME Repair Kit and the 3 in. wide adhesive tape **(2)** within it. Cut a piece of this tape slightly longer than the area to be fixed.

3. If the LME is in use, station another person on the inside of the panel with a flat hard surface held up to the damaged area to provide a working surface to effect the repair.

4. Peel the protective backing **(3)** off the tape and apply it to the damaged area.



Open Seam and loose Hardware

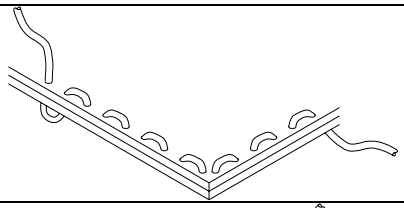
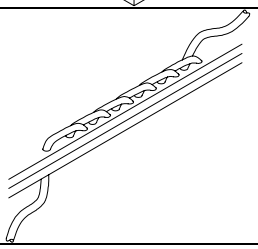
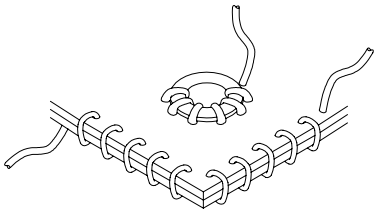
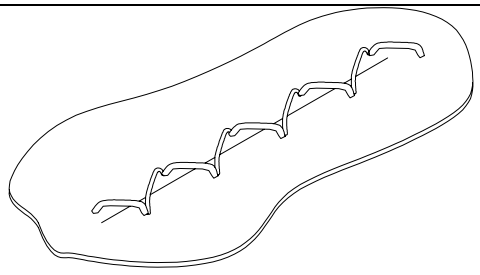
To make temporary repairs to an open (less than 6 inches long) seam, or to re-attach loose hardware, proceed as follows:

1. Remove any loose thread from the open seam.

2. Locate the LME repair kit and the needle pusher, thread, and the needle.

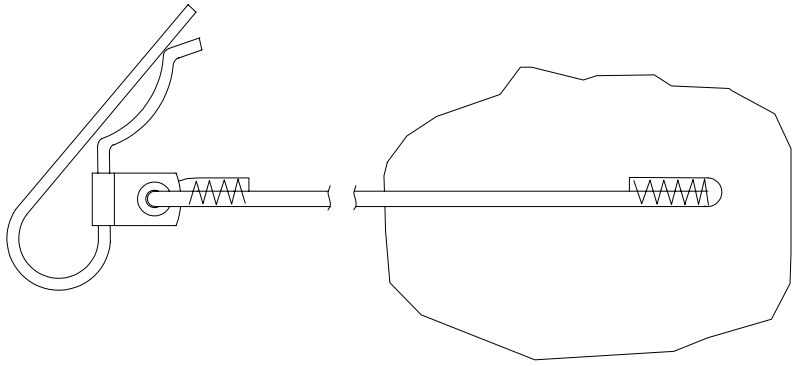
3. Cut a sufficient length of thread and thread it through the needle.

4. Repair the damaged area with one of the common hand stitching methods shown below:

Flat Stitch. Pass the needle over and under an equal amount of material, each successive stitch entering the material from the opposite side.	
Backstitch. Make two small stitches in the same place to secure the cord end. Continue by inserting the needle into the preceding stitch and bringing it out on the same side of the material, one stitch length in advance of the preceding stitch.	
Round Stitch. Use this stitch to temporarily repair grommets or secure other hardware. Insert the thread at right angles to the edge of the material and bring the cord around the edge before making the next stitch.	
Zigzag Stitch. Use this stitch to repair materials that have sustained cut or tear damage, provided the damaged area does not have any material missing and the cut or tear is straight. A zigzag sewing repair may be accomplished using a zigzag sewing machine.	

Hitch Clip Pin and Holder
To replace a hitch clip pin and holder, proceed as follows:

1. Remove remnants of old fibrous cord and thread securing the cord, pin, and holder to the panel.
2. Cut a length of new fibrous cord and stitch it to the panel using a zigzag stitch.
3. Thread the holder through the other end of the cord, fold the cord over and stitch it together using a zigzag stitch.
4. Insert the pin into the holder.



END OF WORK PACKAGE

UNIT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
EXTENSION ASSEMBLY
INSPECT, REPAIR, REPLACE

INITIAL SETUP:

Tools
Repair Kit, Tentage (WP 0034, Table 2, Item 4)
Tentage, Repair Kit (WP 0034, Table 2, Item 7)

Personnel Required
Unit Maintenance

Materials/Parts
None

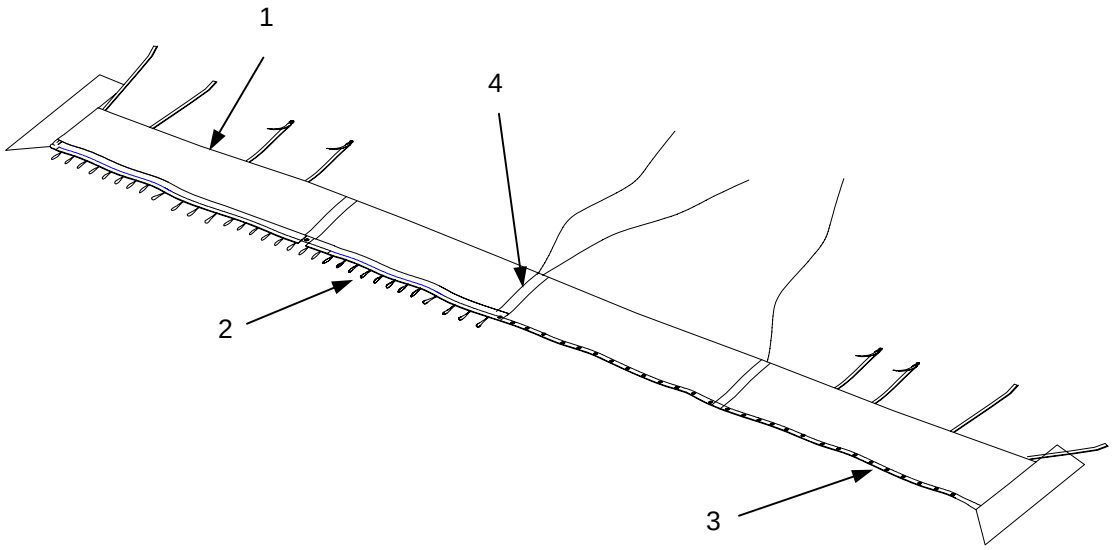
Equipment Condition
Extension assembly unpacked

GENERAL

This procedure contains information and instructions to keep the extension assembly in good working order by inspecting, repairing, or replacing the entire extension assembly.

INSPECT

1. Inspect the extension assembly **(1)** for tears, cuts, perforations and open seams.
2. Check the condition of becket loops **(2)** and the security and serviceability of grommets **(3)**.
3. Inspect the seams **(4)** along the reinforcing webbing for security.



REPLACE

If the extension assembly has tears or cuts longer than 12 inches, deteriorated becket loops, or open seams, replace the entire extension assembly.

REPAIR

1. Repair any cuts, tears or perforations in the extension assembly up to 6 inches long using the LME Repair Kit. Make temporary repairs to seam openings (not longer than 6 inches) and loose hardware. Replace the hitch clip pin and holder if necessary. See directions at the end of this work package.

2. If cuts or tears of less than 12 inches but more than 6 inches are noted, if seams are opening, or if grommets are damaged, refer the extension assembly to direct support maintenance.

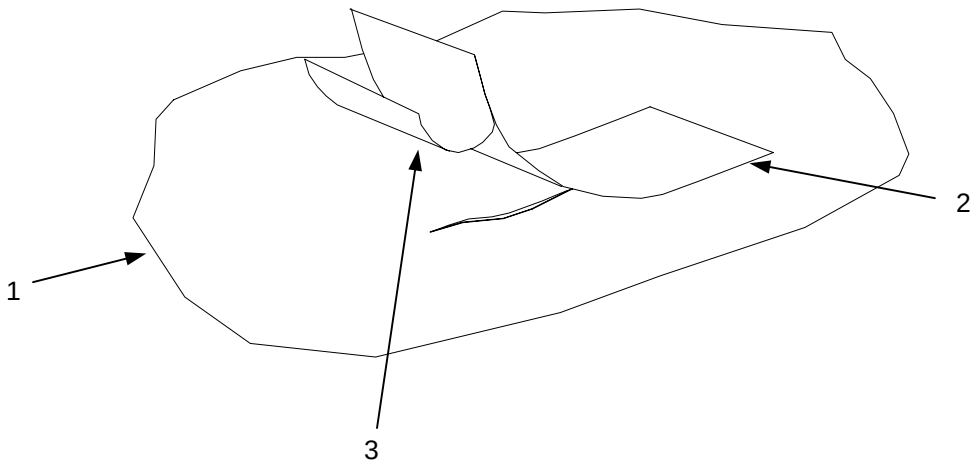
Rips, Tears, Cuts and Perforations
To repair a rip, tear, cut or perforation in the fabric, proceed as follows:

1. Clean the area **(1)** surrounding the damage with a mild cleanser. Do not use harsh chemicals such as Acetone.

2. Locate the LME Repair Kit and the 3 in. wide adhesive tape **(2)** within it. Cut a piece of this tape slightly longer than the area to be fixed.

3. If the LME is in use, station another person on the inside of the panel with a flat hard surface held up to the damaged area to provide a working surface to effect the repair.

4. Peel the protective backing **(3)** off the tape and apply it to the damaged area.



Open Seam and loose Hardware

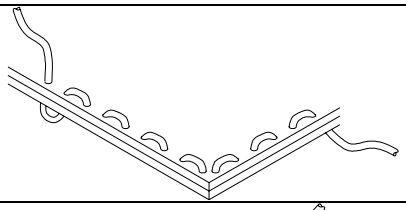
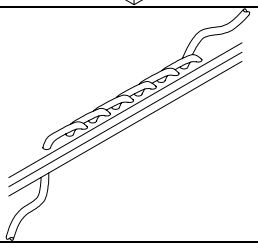
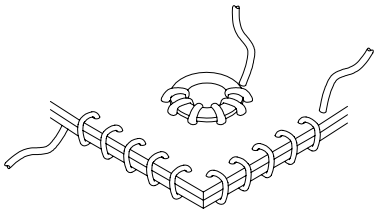
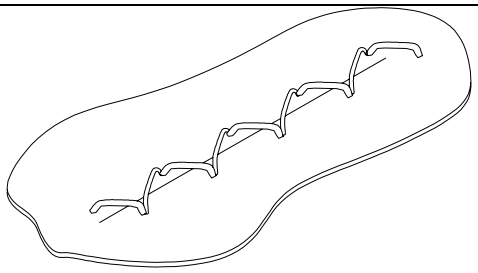
To make temporary repairs to an open (less than 6 inches long) seam, or to re-attach loose hardware, proceed as follows:

1. Remove any loose thread from the open seam.

2. Locate the LME repair kit and the needle pusher, thread, and the needle.

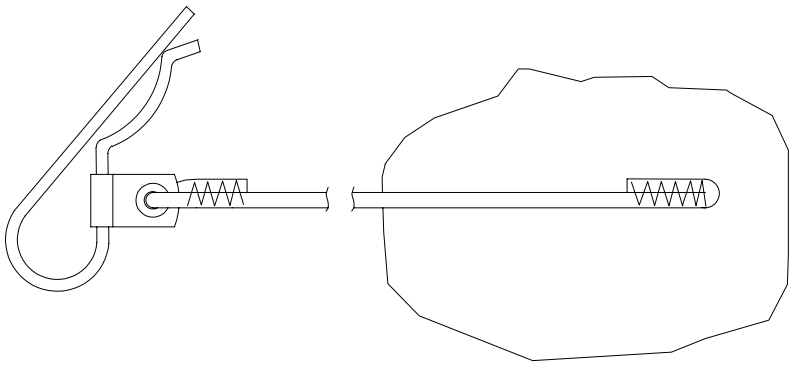
3. Cut a sufficient length of thread and thread it through the needle.

4. Repair the damaged area with one of the common hand stitching methods shown below:

Flat Stitch. Pass the needle over and under an equal amount of material, each successive stitch entering the material from the opposite side.	
Backstitch. Make two small stitches in the same place to secure the cord end. Continue by inserting the needle into the preceding stitch and bringing it out on the same side of the material, one stitch length in advance of the preceding stitch.	
Round Stitch. Use this stitch to temporarily repair grommets or secure other hardware. Insert the thread at right angles to the edge of the material and bring the cord around the edge before making the next stitch.	
Zigzag Stitch. Use this stitch to repair materials that have sustained cut or tear damage, provided the damaged area does not have any material missing and the cut or tear is straight. A zigzag sewing repair may be accomplished using a zigzag sewing machine.	

Hitch Clip Pin and Holder
To replace a hitch clip pin and holder, proceed as follows:

1. Remove remnants of old fibrous cord and thread securing the cord, pin, and holder to the panel.
2. Cut a length of new fibrous cord and stitch it to the panel using a zigzag stitch.
3. Thread the holder through the other end of the cord, fold the cord over and stitch it together using a zigzag stitch.
4. Insert the pin into the holder.



END OF WORK PACKAGE

UNIT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
FOOT LOOP
INSPECT, REPLACE

INITIAL SETUP:

Tools
Took Kit, General Mechanics (WP 0034 00, Table 2, Item 8)

Personnel Required
Unit Maintenance

Materials/Parts
Rope, Manila, Type 1, Cl2, ¼-in Diameter

Equipment Condition
Foot Loop Installed

GENERAL

This procedure contains information and instructions to keep the LME fabric assemblies in good working order by inspecting and replacing damaged foot loops.

INSPECT

1. Inspect the foot loop for fraying, cuts or loose knots.

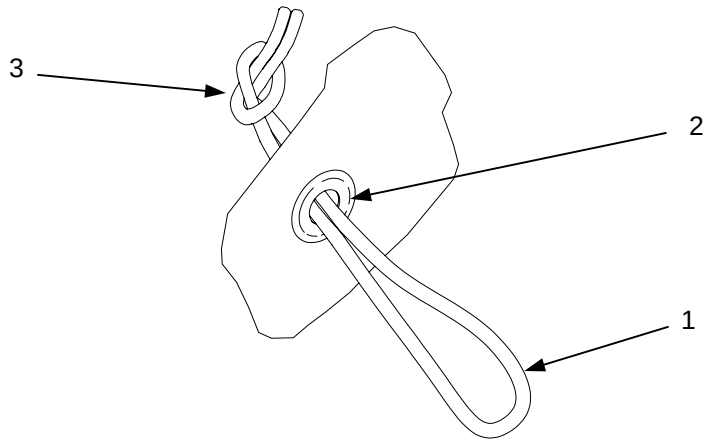
2. If the foot loop is damaged or shows signs of deterioration, replace as follows.

REPLACE

1. Remove the damaged foot loop.

2. Cut a 19-in. length of manila rope **(1)**, pass both ends through the grommet **(2)** and tie off using an overhand knot **(3)**.

3. Ensure that the knot is tight. Draw the finished foot loop back through the grommet **(2)** until the knot **(3)** is against the grommet.



END OF WORK PACKAGE

UNIT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
POWER DISTRIBUTION BOX
INSPECT, REPLACE

INITIAL SETUP:

Tools
Tool Kit, General Mechanics (WP 0034 00, Table 2, Item 8)

Personnel Required
Unit Maintenance

Materials/Parts
None

Equipment Condition
Power Distribution Box, in container or in operation

GENERAL

This procedure contains information and instructions to keep the LME power distribution box in good working order by inspecting and replacing the handle, cord grip, side strap assembly, or the entire power distribution box.

WARNING

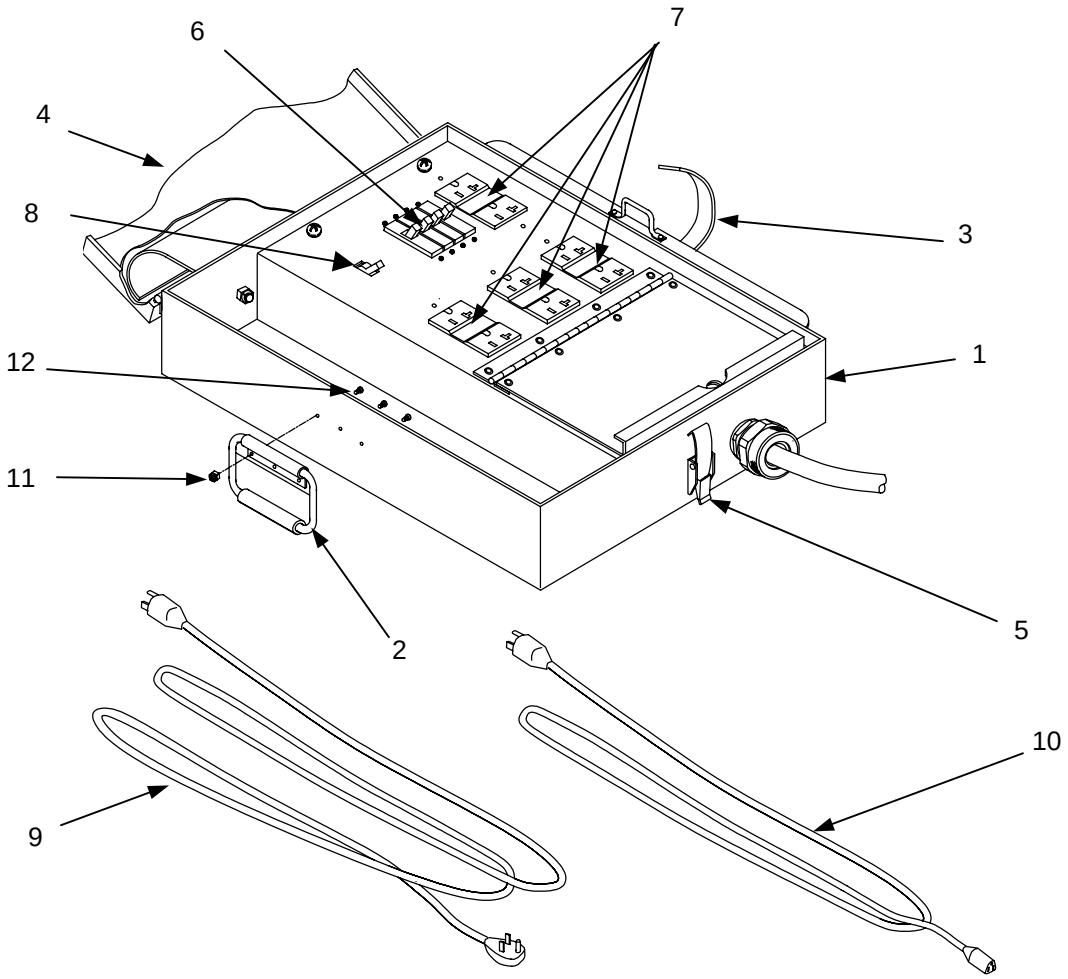
Lethal voltage is present when the power distribution box is connected to a power source. Disconnect the power source before affecting any repairs to the box. Failure to comply may result in serious injury or death.

INSPECT

1. Inspect the power distribution box housing **(1)** and handle **(2)** are not bent, twisted, and that the cover closes properly.
2. Verify that the side strap **(3)** is installed and in good condition.
3. Open the cover **(4)** and check the latch **(5)** for proper operation.
4. Visually inspect the inside of the power distribution box for cleanliness and corrosion. Notice the condition of the circuit breakers **(6)**, power receptacles **(7)**, and the light switch **(8)**.
5. Refer a power distribution box with damaged or inoperative circuit breakers, receptacles, or light switch to direct support maintenance.
6. Inspect the 25-foot **(9)** and the 10-foot **(10)** extension cords for cuts or damaged ends.

REPLACE

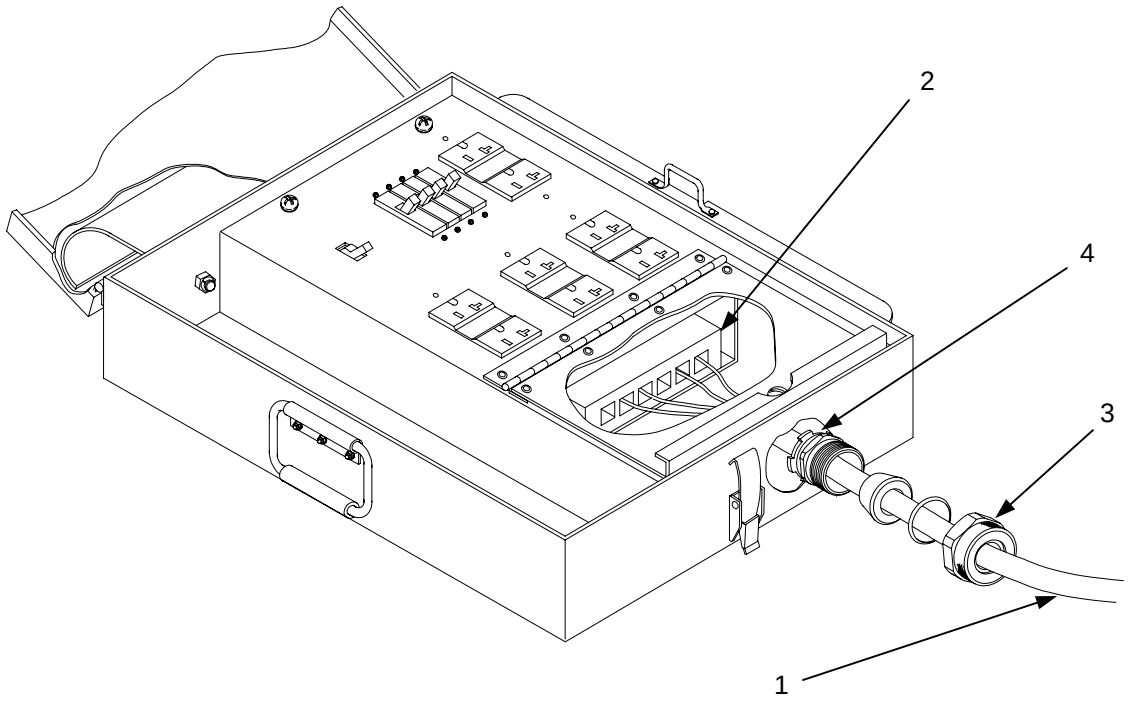
1. Replace a frayed or otherwise damaged side strap assembly **(3)** as required.
2. To replace a defective handle **(2)**, remove the self-locking hex nuts **(11)** and truss head screws **(12)** securing the handle **(2)** to the box **(1)**. Retain the truss head screws.
3. Remove the old handle and place a new handle into position.
4. Install and tighten three new self-locking hex nuts **(11)**. Install the three truss head screws.



Cord Grip Assembly

To replace a defective cord grip assembly, proceed as follows:

1. Disconnect the external power cord **(1)** from the terminal block **(2)**.
2. Loosen the retainer nut **(3)** on the cord grip assembly and pull the wires out of the cord grip assembly.
3. Loosen the lock nut **(4)** holding the cord grip assembly to the box.
4. Remove the cord grip assembly.
5. Place a new cord grip assembly into position through the bottom of the box and secure it with the lock nut **(4)**.
6. Loosen the cord grip assembly retainer nut **(3)** and insert the external power cord **(1)**.
7. Reattach the power cord **(1)** to the terminal block **(2)** and tighten the cord grip assembly retainer nut **(3)**.



END OF WORK PACKAGE

UNIT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
TRANSPORT COVERS AND BAGS
INSPECT, REPLACE, REPAIR

INITIAL SETUP:

Tools
Repair Kit, Tentage (WP 0034, Table 2, Item 4)
Tentage, Repair Kit (WP 0034, Table 2, Item 7)

Personnel Required
Unit Maintenance

Materials/Parts
None

Equipment Condition
Transport Covers and Bags, empty

GENERAL

This procedure contains information and instructions to keep the LME transport covers and bags in good working order by inspecting, repairing, or replacing individual covers and bags as necessary.

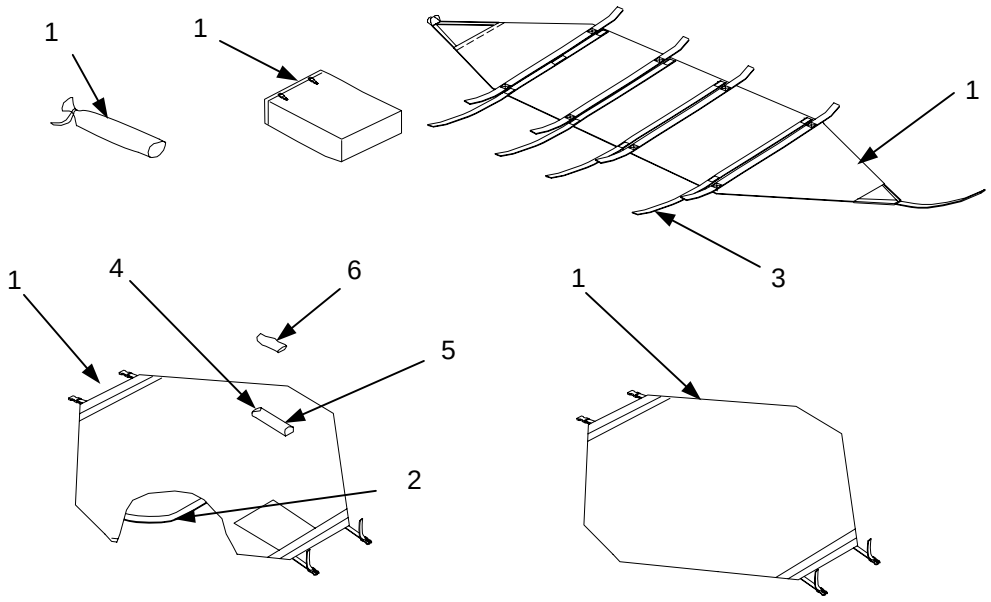
INSPECT

1. Inspect the transport covers and bags **(1)** for tears, cuts, rips and open seams.

2. Check condition and secure attachment of the handles **(2)**, binding tape **(3)**, and hook and pile fasteners **(4)**.

3. Check condition of the repair kit pocket **(5)** inside the fabric transport cover marked “1 each repair kit”.

4. Inspect the repair kit **(6)** and its contents for serviceability.



REPLACE

1. Replace a transport cover or bag that is torn, has cuts or rips that cannot be repaired, ripped or missing handles, or is contaminated.

2. Replace a repair kit if its contents are depleted or unusable.

REPAIR

1. If cuts or tears of more than 6 inches are noted, if seams are opening, or if binding tape is loose, refer the transport cover or bag to direct support maintenance.

2. Repair any cuts, tears or perforations in the fabric of up to 6 in. long using the LME Repair Kit. Also make temporary repairs to seam openings (not longer than 6 in.).

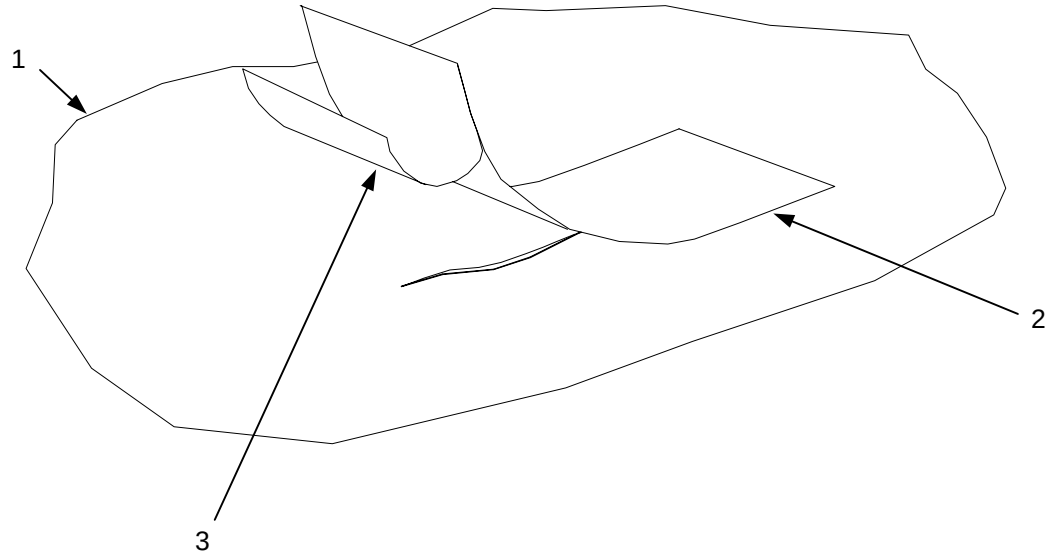
Rips, Tears, Cuts and Perforations
To repair a rip, tear, or cut in the fabric, proceed as follows:

1. Clean the area surrounding the damage **(1)** with a mild cleanser. Do not use harsh chemicals such as Acetone.

2. Locate the LME Repair Kit and the 3 in. wide adhesive tape **(2)** within it.

3. Cut a piece of this tape slightly longer than the area to be repaired. If the bag is in use, unpack it and have another person hold a flat hard surface on the opposite of the bag against the damaged area to provide a working surface to effect the repair.

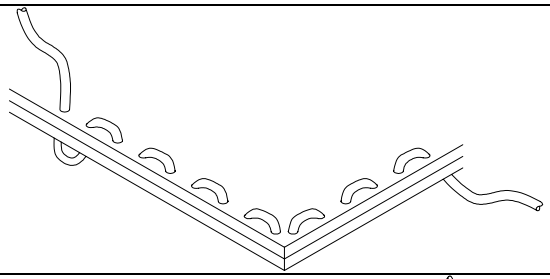
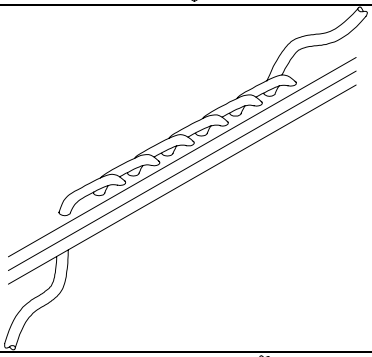
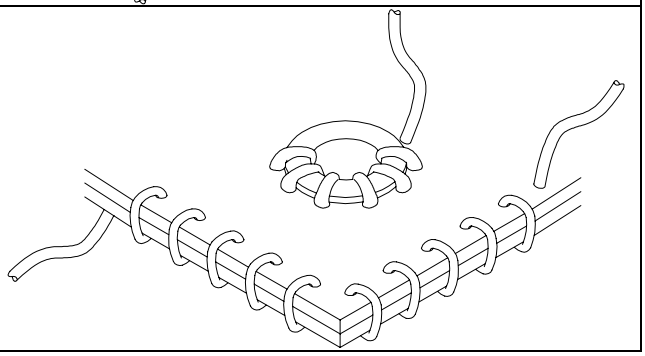
4. Peel the protective backing **(3)** off the tape **(2)** and apply it to the damaged area.



Open Seams and loose Hardware

To make temporary repairs to an open seam (less than 6 in. long), proceed as follows:

1. Remove any loose thread hanging from the open seam.
2. Locate the LME Repair Kit and find the needle pusher, thread, and needle.
3. Cut a sufficient length of thread and thread it through the needle.
4. Repair the damaged area with one of three common hand-stitching methods shown below:

Flat Stitch. Pass the needle over and under an equal amount of material, each successive stitch entering the material from the opposite side.	
Backstitch. Make two small stitches in the same place to secure the cord end. Continue by inserting the needle into the preceding stitch and bringing it out on the same side of the material one stitch length in advance of the preceding stitch.	
Round Stitch. Use this stitch to temporarily repair grommets or secure other hardware. Insert the thread at right angles to the edge of the material and bring the cord around the edge before making the next stitch.	

END OF WORK PACKAGE

CHAPTER 6

DIRECT SUPPORT MAINTENANCE INSTRUCTIONS FOR THE LIGHTWEIGHT MAINTENANCE ENCLOSURE

DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
FABRIC ASSEMBLIES
REPAIR

INITIAL SETUP:

Tools
Sewing Machine, Industrial (WP 0034 00, Table 2, Item 5)

Personnel Required
Direct Support Maintenance

Materials/Parts
None

Equipment Condition
Fabric Assemblies Removed

GENERAL

Direct Support maintenance functions identified in this section consist of repairing rips, tears, perforations and open seams in LME fabric panels. Procedures for machine stitching are provided in the following paragraphs. Specific tentage repair procedures are provided in FM 10-16. Pay attention to WARNING and CAUTION statements. A WARNING means someone could be hurt. A CAUTION means equipment could be damaged.

REPAIR

Machine-Stitching of Fabric
All stitching, except bartacking shall conform to FED-STD 751. Type 301 and 401 stitching requires 5-8 stitches per inch. Bartacking shall be 1/8 inch in width and free of thread breaks and loose stitching.

Thread Breaks
Thread breaks in stitching shall be overstitched not less than 1 inch at each break on stitch type 301, and not less than 1 inch at each break on stitch type 401. Thread breaks in type 401 may be overstitched with stitch type 301. Thread breaks noted during inspection must be repaired by overstitching the existing stitching starting from the distance of 1 inch beyond the break. The ends of repair stitching are not required to be backstitched.

Stitching Ends
The ends of type 301 stitching shall be overstitched not less than 1 inch except where ends are turned under in the hem or held down by other stitching. Where type 301 stitching, performed automatically on stitch patterns such as box stitch, box with cross stitch, W stitching, or straight line tacking are used, at least three tying, overlapping, or back stitches shall be used to secure the ends of stitching.

Skipped Stitches
Two or more consecutively skipped stitches occurring in type 301 stitching shall be overstitched not less than 1 inch. Any skipped stitches in type 401 stitching shall be overstitched not less than 1 2 inches. Skipped stitches in 401 stitching may be overstitched with type 301 stitching. Skipped stitches noted during inspection shall be repaired as specified for thread breaks above.

Automatic-Stitching of Fabric
Automatic stitching machines may be used to perform any of the required stitch patterns provided the requirements of the stitch pattern, stitch per inch, as well as size and types of thread are met. At least three or more overlapping, tying, or backstitches shall secure the ends of the stitching.

Inspection of Components
When LME components are referred to Direct Support Maintenance, inspect the components using Work Package 0018 00 Table 1, Inspection Criteria for Packing, and correct any faults and deficiencies noted.

Repair the following Fabric Assemblies:

Extension Assembly
Fabric Assembly, End Panel
Fabric Assembly, intermediate Panel

Repair rips, tears, holes or separated seams, and replace, as necessary, quick disconnect fasteners, hook and pile fasteners, buckles, labels, grommets, windows, straps, tie tapes, and reinforcements. Follow the procedures outlined in FM 10-16 to perform the repairs to the items noted above and in the RPSTL.

END OF WORK PACKAGE

CHAPTER 7

SUPPORTING INFORMATION
FOR THE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)

DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE I, (GREEN), NSN 5410-01-512-6868 (TAN)
POWER DISTRIBUTION BOX
TEST, REPAIR, REPLACE

INITIAL SETUP:

Tools
Tool Kit, General Mechanics (WP 0034 00, Table 2, Item 8)
Multimeter (WP 0034 00, Table 2, Item 3)

Personnel Required
Direct Support Maintenance

Materials/Parts
Tags, Marking (WP 0050 00, Table 1, Item 2)

Equipment Condition
Power Distribution Box in container, or in operation

GENERAL

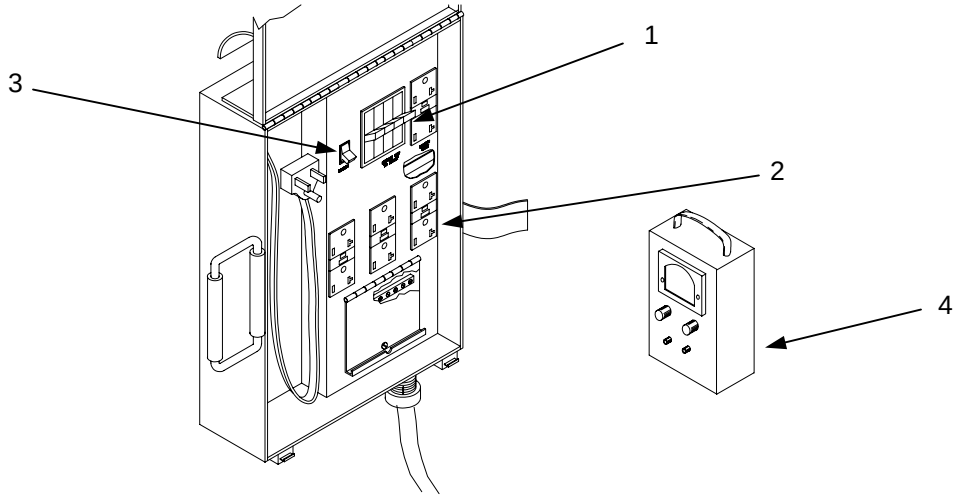
This procedure contains information and instructions to keep the LME power distribution box in good working order by inspecting, testing, repairing or replacing the entire power distribution box assembly.

WARNING

Lethal voltage is present when the power distribution box is connected to a power source. Disconnect the power source before affecting any repairs to the box. Serious injury or death to personnel may result from touching any component under power.

TEST

Test inoperative circuit breakers **(1)**, power receptacles **(2)**, and the LIGHTS switch **(3)** for continuity using a multimeter **(4)**.

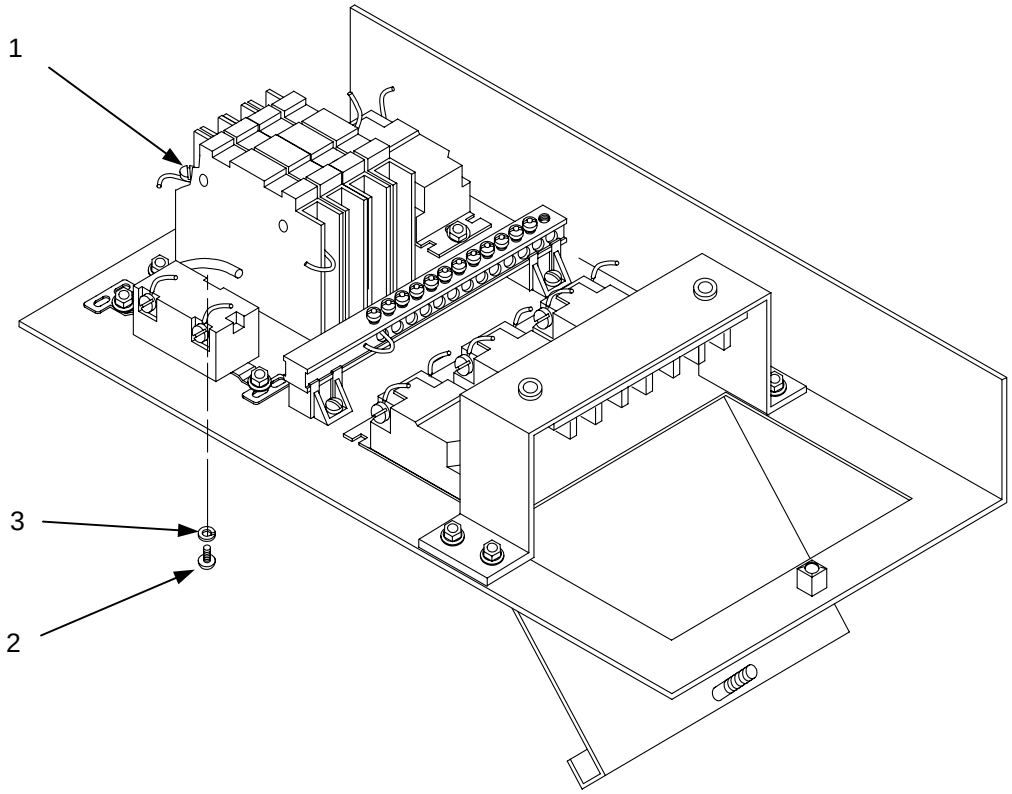


REPAIR

If no continuity is indicated, repair the power distribution box by replacing the defective component.

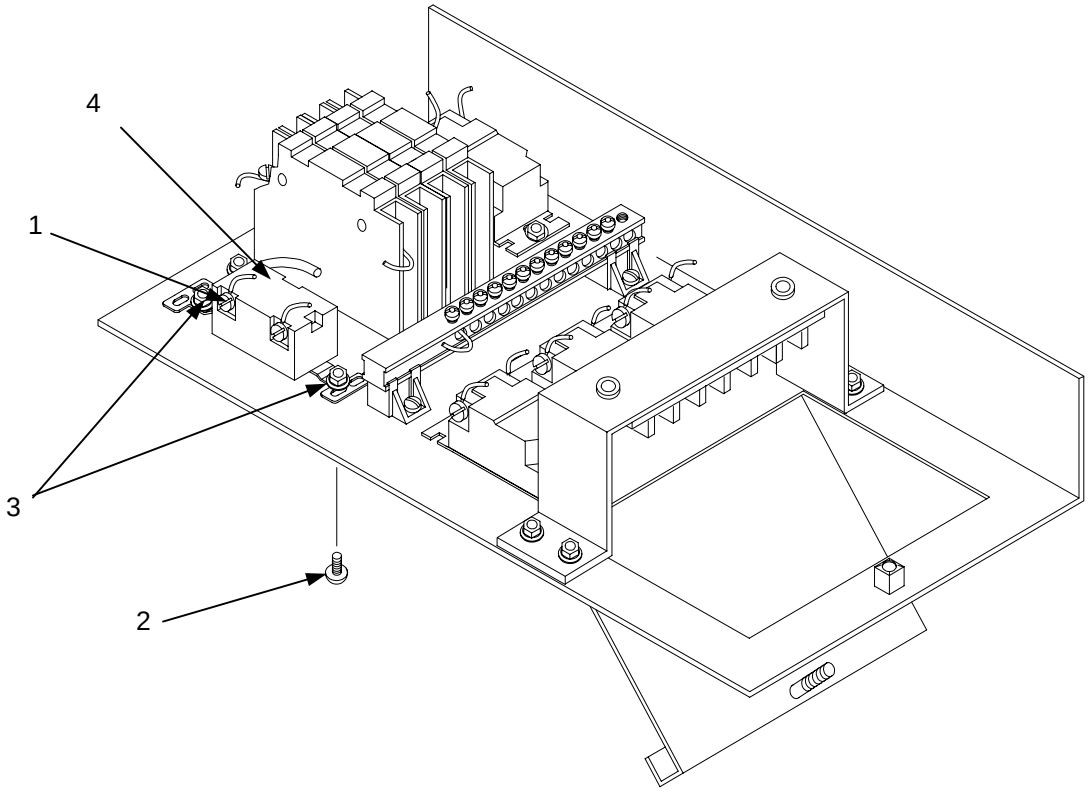
To replace a defective circuit breaker, proceed as follows:

1. Loosen the screws **(1)** to release wires from the rear of the circuit breaker. (Tag the wires.)
2. Loosen and remove the 2 screws **(2)** and washers **(3)** securing the circuit breaker to the front panel.
3. Remove the circuit breaker.
4. Place a new circuit breaker into position and secure it with 2 screws **(2)** and washers **(3)** to the front of the panel.
5. Attach the tagged wires and secure them with screws **(1)**.



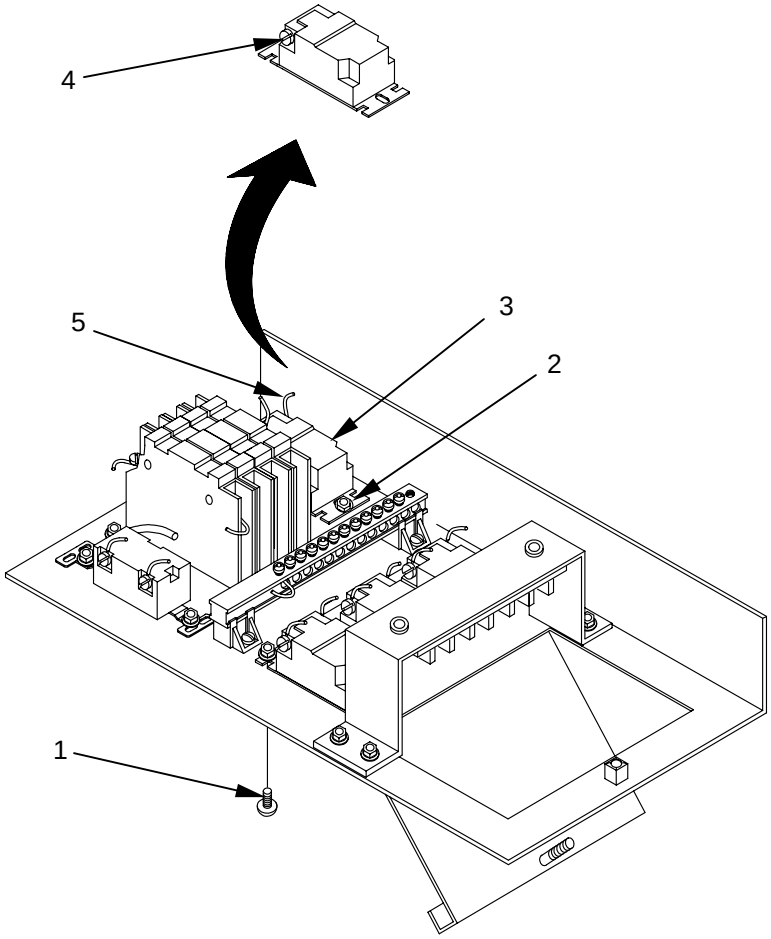
To replace a defective light switch, proceed as follows:

1. Loosen the screws **(1)** holding the wires.
2. Remove the wires. (Tag the wires.)
3. Remove the screws **(2)** and lock nuts **(3)** securing the light switch **(4)** to the panel, and retain the screws.
4. Remove the light switch from the panel.
5. Place a new light switch **(4)** into position and secure it with screws **(2)** and lock nuts **(3)**.
6. Attach the tagged wires and secure them with screws **(1)**.



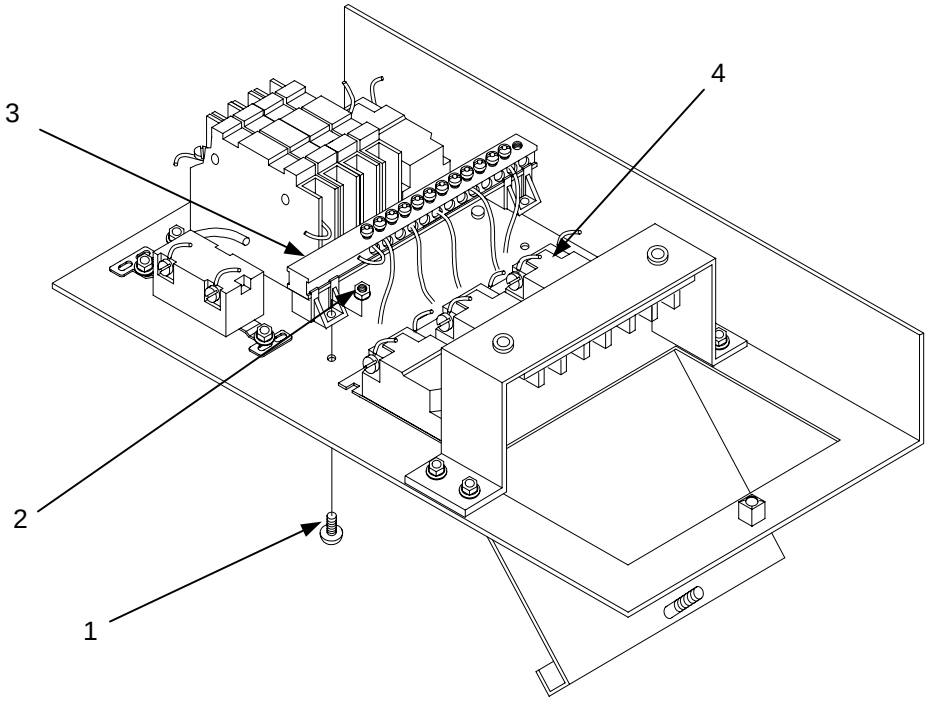
To replace a defective light receptacle:

1. Remove the screws **(1)** and lock nuts **(2)** securing the receptacle **(3)** to the panel and retain the hardware.
2. Lift the receptacle **(3)** off the panel.
3. Loosen the screws **(4)** securing the wires **(5)**.
4. Remove and tag the wires **(5)**.
5. Place a new receptacle **(3)** on the panel.
6. Tighten the screws **(1)** and lock nuts **(2)** to secure the receptacle to the panel.
7. Attach the tagged wires with screws **(4)**.



To replace a defective GFCI receptacle:

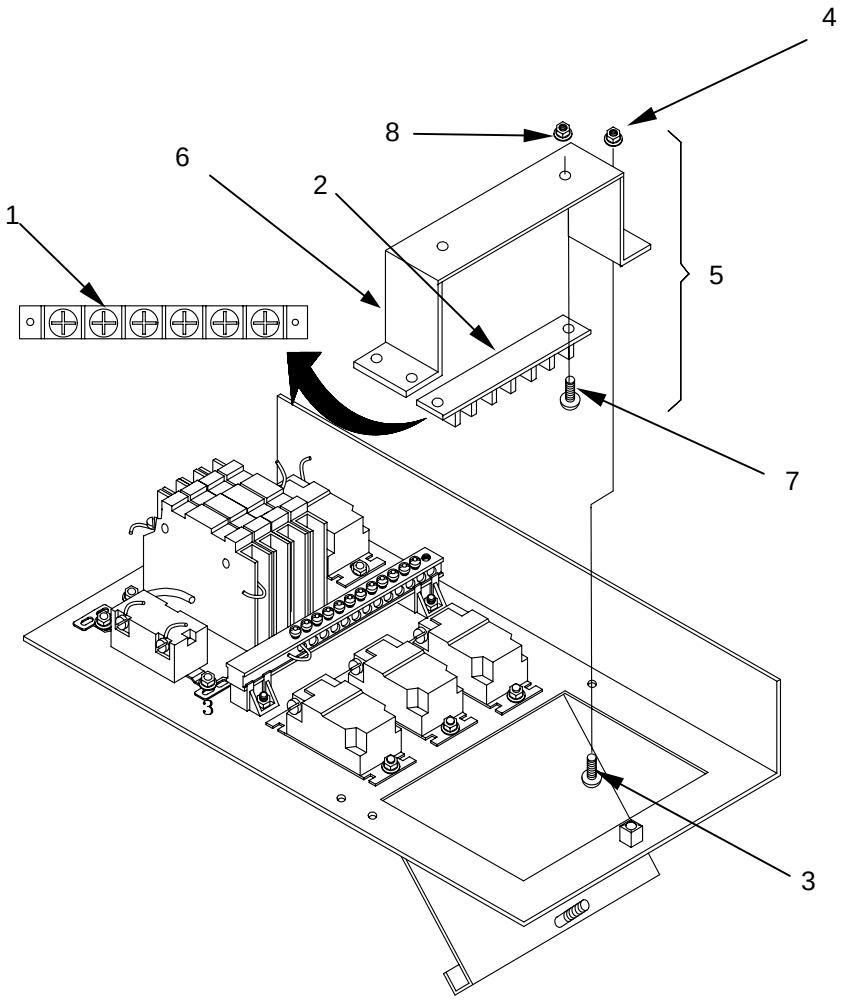
1. Remove the screws **(1)** and lock nuts **(2)** securing the PDB assembly **(3)** to the panel.
2. Leave the wires attached.
3. Move the PDB distribution block assembly **(3)** out of the way.
4. Remove and replace the GFCI receptacle **(4)** as in the light receptacle procedure above.
5. Install the PDB distribution block **(3)** with securing screws **(1)** and lock nuts **(2)**.



To remove a defective terminal block:

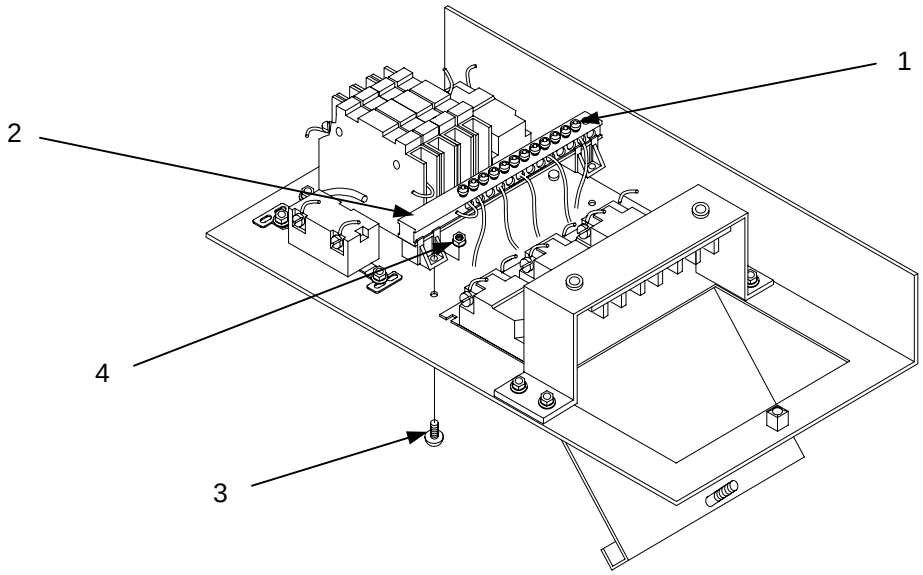
1. Loosen the screws **(1)** securing the wires to the terminal block **(2)**.
2. Remove and tag the wires.
3. Remove the screws **(3)** and lock nuts **(4)** securing the PDB terminal block assembly **(5)** to the component panel.
4. Separate the terminal block **(2)** from the terminal plate **(6)** by removing two hex socket screws **(7)** and lock nuts **(8)**. Retain the screws and lock nuts
5. Install a new terminal block **(2)** onto the terminal plate **(6)** with two hex socket screws **(7)** and lock nuts **(8)**.
6. Install the terminal block assembly **(5)** onto the component panel using the two retained screws **(3)** and lock nuts **(4)**.

7. Install the tagged wires onto the terminal block and secure them.



To replace a defective power distribution block assembly:

1. Loosen the screws **(1)** holding the wires to the distribution block assembly **(2)**.
2. Remove the wires from the distribution block assembly **(2)**.
3. Tag the wires.
4. Remove the two screws **(3)** and lock nuts **(4)** holding the distribution block assembly **(2)** to the panel.
5. Slide the distribution block assembly **(2)** from the panel. (Slide it to the side.)
6. Slide a new distribution block in from the side.
7. Secure the two screws **(3)** and lock nuts **(4)** holding the distribution block assembly **(2)** to the panel.
8. Attach the tagged wires to the distribution block by tightening the screws **(1)**.



REPLACE

1. Replace a power distribution box that has been warped, bent, the cover does not close properly, or the mounting bracket is broken or bent.
2. Replace an inoperative circuit breaker, GFCI receptacle, or light switch as required.

END OF WORK PACKAGE

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
REFERENCES

SCOPE

This Work Package lists all field manuals, technical manuals, forms, pamphlets, Army regulations, and military standards referenced throughout this manual.

Field Manuals

Basic Cold Weather Manual	FM 31-70
First Aid for Soldiers	FM 21-11
Mountain Operations	FM 90-6
Chemical and Biological Contamination Avoidance	FM 3-3
Northern Operations	FM 31-71
Operation and Maintenance of Ordnance Material in Cold Weather	FM 9-207
General Fabric Repair	FM 10-16

Technical Manuals

Procedures for Destruction of Army Materiel to Prevent Enemy Use	TM 750-244-3
Administrative Storage of Equipment	TM 740-90-1
Packing of Materiel	TM 38-230-2

Forms

Equipment Control Record	DA Form 2408-9
Equipment Inspection and Maintenance Worksheet	DA Form 2404
Hand Receipt/Annex Number	DA Form 2062
Transportation Discrepancy Report	SF 361
Product Quality Deficiency Report	SF 368
Recommended Changes to Equipment Technical Publications	DA Form 2028-2
Recommended Changes to Publications and Blank Forms	DA Form 2028

DA Pamphlets

The Army Maintenance Management System (TAMMS)	DA PAM 738-750

Federal Standards

Stitches, Seams and Stitchings	FED STD 751

UNIT MAINTENANCE
LIGHTWIEGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
MAINTENANCE ALLOCATION CHART, INTRODUCTION

INTRODUCTION

The Army Maintenance System MAC

This introduction provides a general explanation of all maintenance and repair functions authorized at the two maintenance levels under the Two-Level Maintenance System concept.

This MAC (immediately following the introduction) designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component shall be consistent with the capacities and capabilities of the designated maintenance levels, which are shown on the MAC in column (4) as:

Field - includes two columns, Unit maintenance and Direct Support maintenance. The Unit maintenance column is divided again into two more subcolumns, C for Operator or Crew and O for Unit maintenance.

Sustainment – includes two subcolumns, General Support (H) and Depot (D).

The tools and test equipment requirements (immediately following the MAC) list the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from the MAC.

The remarks (immediately following the tools and test equipment requirements) contain supplemental instructions and explanatory notes for a particular maintenance function.

Maintenance Functions

Maintenance functions will be limited to and are defined as follows:

1. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel.) This includes scheduled inspection and gagings and evaluation of cannon tubes.

2. Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.

3. Service. Operations required periodically to keep an item in proper operating condition, e.g., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging of recoil mechanisms. The following are examples of service functions:

    a. Unpack. To remove from packing box for service or when required for the performance of maintenance operations.

    b. Repack. To return item to packing box after service and other maintenance operations.

    c. Clean. To rid the item of contamination.

    d. Touch up. To spot paint scratched or blistered surfaces.

e. Mark. To restore obliterated identification.

4. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specified parameters.

5. Align. To adjust specified variable elements of an item to bring about optimum or desired performance

6. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments of test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

7. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

8. Paint. To prepare and spray color coats of paint so that the ammunition can be identified and protected. The color indicating primary use is applied, preferably, to the entire exterior surface as the background color of the item. Other markings are to be repainted as original so as to retain proper ammunition identification.

9. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. “Replace” is authorized by the MAC and assigned maintenance level is shown as the third position code of the Source, Maintenance and Recoverability (SMR) code.

10. Repair. The application of maintenance services, including fault location/troubleshooting, removal/installation, disassembly/assembly procedures and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

NOTE

The following definitions are applicable to the “repair” maintenance function:

Services. Inspect, test, service, adjust, align, calibrate, and/or replace.

Fault location/troubleshooting. The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or Unit Under Test (UUT).

Disassembly/assembly. The step-by-step breakdown (taking apart) of a spare/functional group coded item to the level of its least component, that is assigned an SMR code for the level of maintenance under consideration (i.e., identified as maintenance significant).

Actions. Welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.

11. Overhaul. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

12. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

Explanation of Columns in the MAC

Column (1) Group Number. Column (1) lists Functional Group Code (FGC) numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the Next Higher Assembly (NHA).

Column (2) Component/Assembly. Column (2) contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

Column (3) Maintenance Function. Column (3) lists the functions to be performed on the item listed in column (2). (For a detailed explanation of these functions refer to “Maintenance Functions” outlined above).

Column (4) Maintenance Level. Column (4) specifies each level of maintenance authorized to perform each function listed in column (3), by indicating work time required (expressed as manhours in whole hours or decimals) in the appropriate subcolumn. This work time figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function varies at different maintenance levels, appropriate work time figures are to be shown for each level. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC. The system designations for the various maintenance levels are as follows:

Field:

C Operator or Crew maintenance
O Unit maintenance
F Direct Support maintenance

Sustainment:

L Specialized Repair Activity
H General Support maintenance
D Depot maintenance

NOTE

The “L” maintenance level is not included in column (4) of the MAC. Functions to this level of maintenance are identified by work time figure in the “H” column of column (4), and an associated reference code is used in the REMARKS column (6). This code is keyed to the remarks and the SRA complete repair application is explained there.

Column (5) Tools and Equipment Reference Code. Column (5) specifies, by code, those common tool sets (not individual tools), common Test, Measurement and Diagnostic Equipment (TMDE), and special tools, special TMDE and special support equipment required to perform the designated function. Codes are keyed to the entries in the tools and test equipment table.

Column (6) Remarks Code. When applicable, this column contains a letter code, in alphabetic order, which is keyed to the remarks table entries.

Explanation of Columns in the Tools and Test Equipment Requirements

Column (1) - Tool or Test Equipment Reference Code. The tool or test equipment reference code correlates with a code used in column (5) of the MAC.

Column (2) - Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.

Column (3) - Nomenclature. Name or identification of tool or test equipment.

Column (4) - National Stock Number (NSN). The NSN of the tool or test equipment.

Column (5) - Tool Number. The manufacturer’s part number.

Explanation of Columns in Remarks

Column (1) - Remarks Code. The code recorded in column (6) of the MAC.

Column (2) - Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC.

UNIT MAINTENANCE
LIGHTWIEGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
MAINTENANCE ALLOCATION CHART (MAC)

Table 1. Maintenance Allocation Chart (MAC) for the LME.

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REFERENCE CODE	(6) REMARKS
			FIELD			SUSTAINMENT			
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
00	LME								
01	ASSEMBLY, FRAME, LME	Inspect Repair Replace	0.5	 0.3 0.5				8	A
0101	ASSEMBLIES, SUPPORT FRAME (DOOR HEADER & CABLE HEADER)	Inspect Repair Replace	0.5	 0.3 0.5				8	A
010101	ASSEMBLY, UPPER ARCH	Inspect Replace	0.3	0.3 0.3					A
010102	ASSEMBLY, LOWER ARCH	Inspect Replace	0.3	0.3 0.3					A
010103	ASSEMBLY, DOOR HEADER	Inspect Replace	0.3	0.3 0.3				8	A
010104	ASSEMBLY, CABLE HEADER	Inspect Replace	0.3 0.3						
010105	ASSEMBLY, LOWER LEG	Inspect Replace	0.3	0.3 0.3					
010106	ASSEMBLY, SIDE	Inspect Replace	0.3	0.3 0.3				8	A
010107	ASSEMBLY, PURLIN	Inspect Replace	0.3 0.3						
02	FABRIC ASSEMBLY, INTERMEDIATE PANEL	Inspect Repair Replace	0.3	0.3 0.3 1.0	1.0			3,5,7	A
0201	ASSEMBLY, REPLACEABLE WINDOW	Inspect Replace	0.1 0.5						
03	FABRIC ASSEMBLY, END PANEL	Inspect Repair Replace	0.3	0.3 0.3 0.3	1.0			3,5,7	A
04	EXTENSION OF LENGTH	Inspect Repair Replace	1.0	1.0 0.3 1.0	1.0			4,5,7	B
05	ASSEMBLY, LIGHT KIT	Inspect Test Repair Replace	0.5 0.3 0.5		 0.5			3,8	

Table 1. Maintenance Allocation Chart (MAC) for the LME. - continued

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REFERENCE CODE	(6) REMARKS
			FIELD			SUSTAINMENT			
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT		
			C	O	F	H	D		
06	POWER DISTRIBUTION BOX, 70 A	Inspect Test Repair Replace	1.0	1.0 0.3	 0.3 0.5 1.0			3,8	
07	FABRIC TRANSPORT COVER WITH REPAIR KIT	Inspect Repair Replace	0.1 0.3	 0.3	 0.5			4,5,7	
0701	FABRIC TRANSPORT COVER	Inspect Repair Replace	0.1	 0.3 0.3	 0.5			4,5,7	
0702	FRAME TRANSPORT COVERS	Inspect Repair	0.1	0.1	 0.5			4,5,7	
0703	ASSEMBLY, TENT PIN TRANSPORT BAG, LME	Inspect Repair Replace	0.1	0.1 0.3	 0.5			4,5,7	
08	TENT PINS, GUY LINES AND TENT SLIPS	Inspect Replace	0.1 0.5					4	
0801	PIN, TENT, STEEL, 18”	Inspect Replace	0.1	 0.3				6	
0802	PIN, TENT, WOOD, 16”	Inspect Replace	0.1	 0.3				6	
0803	PIN, TENT, WOOD, 24”	Inspect Replace	0.1	 0.3				6	
0804	GUY LINE W/SLIP, 14’ 1”	Inspect Replace	0.1	 0.3				4	
0805	GUY LINE W/SLIP, 23’ 1”	Inspect Replace	0.1	 0.3				4	
0806	FOOT LOOP	Inspect Replace	0.1	 0.2				4	
09	FABRIC ASSEMBLY, INTERMEDIATE PANEL, TYPE II	Inspect Repair Replace	0.3	 0.3 1.9				4,5,7	C
10	FABRIC ASSEMBLY, INTERMEDIATE PANEL, 8-FOOT EXTENSION ASSEMBLY	Inspect Repair Replace	0.3	 0.3	 1.0			4,5,7	D

Table 2. Tools and Test Equipment for the LME.

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE LEVEL	NOMENCLATURE	NATIONAL STOCK NUMBER	TOOL NUMBER
1	O	Band Cutter		
2	O	Hammer, Claw		
3	F	Multimeter	6625-01-139-2512	AN/PS45
4	O	Repair Kit, Tentage		5-4-8159
5	F	Sewing Machine, Industrial	3530-00-892-4631	
6	O	Sledge Hammer, 12 lb, Fiberglass Handle	5120-00-900-6098	
7	O	Tentage, Repair Kit	8340-00-282-5767	
8	O	Tool Kit, General Mechanics		
9	O	Wrecking Bar	5100-00-242-0762	

Table 3. Remarks for the LME.

REMARKS CODE	REMARKS
A	Replace and Repair Times are for components not part of an erected frame.
B	Repair at Unit Level is limited to the Capabilities of the Tentage Repair Kit.
C	Repair and Maintenance of the Type II LME Fabric Intermediate Panel is similar to MAC Group 02.
D	Repair and Maintenance of the LME Fabric Intermediate Panel for the 8-ft extension assembly is similar to MAC Group 2.

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
REPAIR PARTS AND SPECIAL TOOLS LIST, INTRODUCTION

SCOPE

This RPSTL lists and authorizes spare and repair parts; special tools; special test, measurement and diagnostic equipment (TMDE); and other special support equipment required for performance of Unit and Direct Support maintenance of the Lightweight Maintenance Enclosure (LME). It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the source, maintenance, and recoverability (SMR) codes.

GENERAL

In addition to the Introduction Work Package, this RPSTL is divided into the following work packages.

1. Repair Parts List Work Packages. Work packages containing lists of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. These work packages also include parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Sending units, brackets, filters, and bolts are listed with the component they mount on. Bulk materials are listed by item name in FIG. BULK at the end of the work packages. Repair parts kits are listed separately in their own functional group and work package. Repair parts for reparable special tools are also listed in a separate work package. Items listed are shown on the associated illustrations.

2. Special Tools List Work Packages. Work packages containing lists of special tools, special TMDE, and special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in the DESCRIPTION AND USABLE ON CODE (UOC) COLUMN). Tools that are components of common tool sets and/or Class VII are not listed.

3. Cross-Reference Indexes Work Packages. There are two cross-reference indexes work packages in this RPSTL: The National Stock Number (NSN) Index work package and the Part Number (P/N) work package. The National Stock Number (NSN) Index work package refers you to the figure and item number. The Part Number (P/N) work package refers you to the figure and item number.

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGES

ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration.

SMR CODE (Column (2)). The (SMR) code containing supply/requisitioning information, maintenance level authorization criteria and disposition instruction, as shown in the following breakout:

Source Code	**Maintenance Code**			**Recoverability Code**
XX		X	X	X
1 st two Positions: How to get an item.	3 rd Position: Who can install, Replace or use the item.		4 th Position: Who can do complete repair* on the item	5 th Position: Who determines disposition action on unserviceable items

* Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function Source Code. The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanation of source codes follows.

Source Code	**Application/Explanation**
PA PB PC PD PE PF PG	Stock items; use the applicable NSN to requisition/request items with these source codes. They are authorized to the level indicated by the code entered in the 3rd position of the SMR code. NOTE: Items coded PC are subject to deterioration.
KB KD KF	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance level indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied.
MO-Made at unit/ AVUM Level MF-Made at DS/ AVIM Level MH-Made at GSRPSTL. level ML-Made at SRA MD-Made at depot	Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the P/N in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the bulk material group work package of the If the item is authorized to you by the 3rd position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.
AO-Assembled by unit/AVUM Level AF-Assembled by DS/AVIM Level AH-Assembled by GS level AL-Assembled by SRA AD-Assembled by depot	Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the third position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance.

XA Do not requisition an "XA" coded item. Order its next higher assembly. (Refer to NOTE below.)

XB If an item is not available from salvage, order it using the CAGEC and P/N.

XC Installation drawings, diagrams, instruction sheets, field service drawings, identified by manufacturer's P/N.

XD Item is not stocked. Order an XD-coded item through normal supply channels using the CAGEC and P/N given, if no NSN is available.

NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

Maintenance Code. Maintenance codes tell you the level(s) of maintenance authorized to use and repair support items. The maintenance codes are entered in the third and fourth positions of the SMR Code as follows:

Third Position. The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following levels of maintenance:

Maintenance Code	Application/Explanation
C	Crew or operator maintenance done within unit/AVUM maintenance.
O	Unit level/AVUM maintenance can remove, replace, and use the item.
F	Direct support/AVIM maintenance can remove, replace, and use the item.
H	General support maintenance can remove, replace, and use the item.
L	Specialized repair activity can remove, replace, and use the item.
D	Depot level can remove, replace, and use the item.

Fourth Position. The maintenance code entered in the fourth position tells you whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (perform all authorized repair functions).

NOTE

Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

Maintenance Code		Application/Explanation
O	—	Unit/AVUM is the lowest level that can do complete repair of the item.
F	—	Direct support/AVIM is the lowest level that can do complete repair of the item.
H	—	General support is the lowest level that can do complete repair of the item.
L	—	Specialized repair activity is the lowest level that can do complete repair of the item.
D	—	Depot is the lowest level that can do complete repair of the item.
Z	—	Nonreparable. No repair is authorized.
B	—	No repair is authorized. No parts or special tools are authorized for the maintenance of a "B" coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

Recoverability Code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is shown in the fifth position of the SMR Code as follows:

Recoverability Code		Application/Explanation
Z	—	Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in third position of SMR Code.
O	—	Reparable item. When uneconomically reparable, condemn and dispose of the item at unit level.
F	—	Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support level.
H	—	Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support level.
D	—	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
L	—	Reparable item. Condemnation and disposal not authorized below Specialized Repair Activity (SRA).

A — Item requires special handling or condemnation procedures because of specific reasons (such as precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

NSN (Column (3)). The NSN for the item is listed in this column.

CAGEC (Column (4)). The Commercial and Government Entity Code (CAGEC) is a 5-digit code which is used to identify the manufacturer, distributor, or Government agency/activity that supplies the item.

PART NUMBER (Column (5)). Indicates the primary number used by the manufacturer (individual company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When you use an NSN to requisition an item, the item you receive may have a different P/N from the number listed.

DESCRIPTION AND USABLE ON CODE (UOC) (Column (6)). This column includes the following information:

1. The federal item name and, when required, a minimum description to identify the item.
2. P/Ns of bulk materials are referenced in this column in the line entry to be manufactured or fabricated.
3. Hardness Critical Item (HCI). A support item that provides the equipment with special protection from electromagnetic pulse (EMP) damage during a nuclear attack.
4. The statement END OF FIGURE appears just below the last item description in column (6) for a given figure in both the repair parts list and special tools list work packages.

QTY (Column (7)). The QTY (quantity per figure) column indicates the quantity of the item used in the breakout shown on the illustration/figure, which is prepared for a functional group, subfunctional group, or an assembly. A “V” appearing in this column instead of a quantity indicates that the quantity is variable and quantity may change from application to application.

EXPLANATION OF CROSS-REFERENCE INDEXES WORK PACKAGES FORMAT AND COLUMNS

1. National Stock Number (NSN) Index Work Package.

STOCK NUMBER Column. This column lists the NSN in National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN.

NSN (e.g., 5308-01-574-1476) NIIN	When using this column to locate an item, ignore the first four digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

FIG. Column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in the repair parts list and special tools list work packages.

ITEM Column. The Item number identifies the item associated with the figure listed in the adjacent FIG. Column. This item is also identified by the NSN listed on the same line.

2. Part Number (P/N) Index Work Package. P/Ns in this index are listed in ascending alphanumeric sequence (vertical arrangement of letter and number combinations which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9, and each following letter or digit in like order).

PART NUMBER Column. Indicates the P/N assigned to the item.

FIG. Column. This column lists the number of the figure where the item is identified/located in the repair parts list and special tools list work packages.

ITEM Column. The item number is the number assigned to the item as it appears in the figure referenced in adjacent figure number column.

SPECIAL INFORMATION

UOC. The UOC appears in the lower left corner of the Description Column heading. Usable on codes are shown as "UOC: …" in the Description Column (justified left) on the first line under the applicable item/nomenclature. Uncoded items are applicable to all models. Identification of the usable on codes used in this RPSTL are:

Code	Used On"
FQH	Type I Lightweight Maintenance Enclosure – (Green)
FTD	Type I Lightweight Maintenance Enclosure – (Tan)
FTE	Type II Lightweight Maintenance Enclosure Modification for LADS – (Green)
FTF	Type II Lightweight Maintenance Enclosure Modification for LADS - (Tan)

"Fabrication Instructions. Bulk materials required to manufacture items are listed in the bulk material functional group of this RPSTL. Part numbers for bulk material are also referenced in the Description Column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for items source coded to be manufactured or fabricated are found in this TM.

Index Numbers. Items which have the word BULK in the figure column will have an index number shown in the item number column. This index number is a cross-reference between the NSN/P/N index work packages and the bulk material list in the repair parts list work package.

HOW TO LOCATE REPAIR PARTS

1. When NSNs or P/Ns Are Not known.

First. Using the table of contents, determine the assembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and lists are divided into the same group

Second. Find the figure covering the functional group or subfunctional group to which the item belongs.

Third. Identify the item on the figure and note the number(s).

Fourth. Look in the repair parts list work packages for the figure and item numbers. The NSNs and part numbers are on the same line as the associated item numbers.

2. When NSN is Known.

First, if you have the NSN, look in the STOCK NUMBER column of the NSN index work package. The NSN is arranged in NIIN sequence. Note the figure and item number next to the NSN.

Second. Turn to the figure and locate the item number. Verify that the item is the one you are looking for.

3. When P/N is Known.

First. If you have the P/N and not the NSN, look in the PART NUMBER column of the P/N index work package. Identify the figure and item number.

Second. Look up the item on the figure in the applicable repair parts list work package.

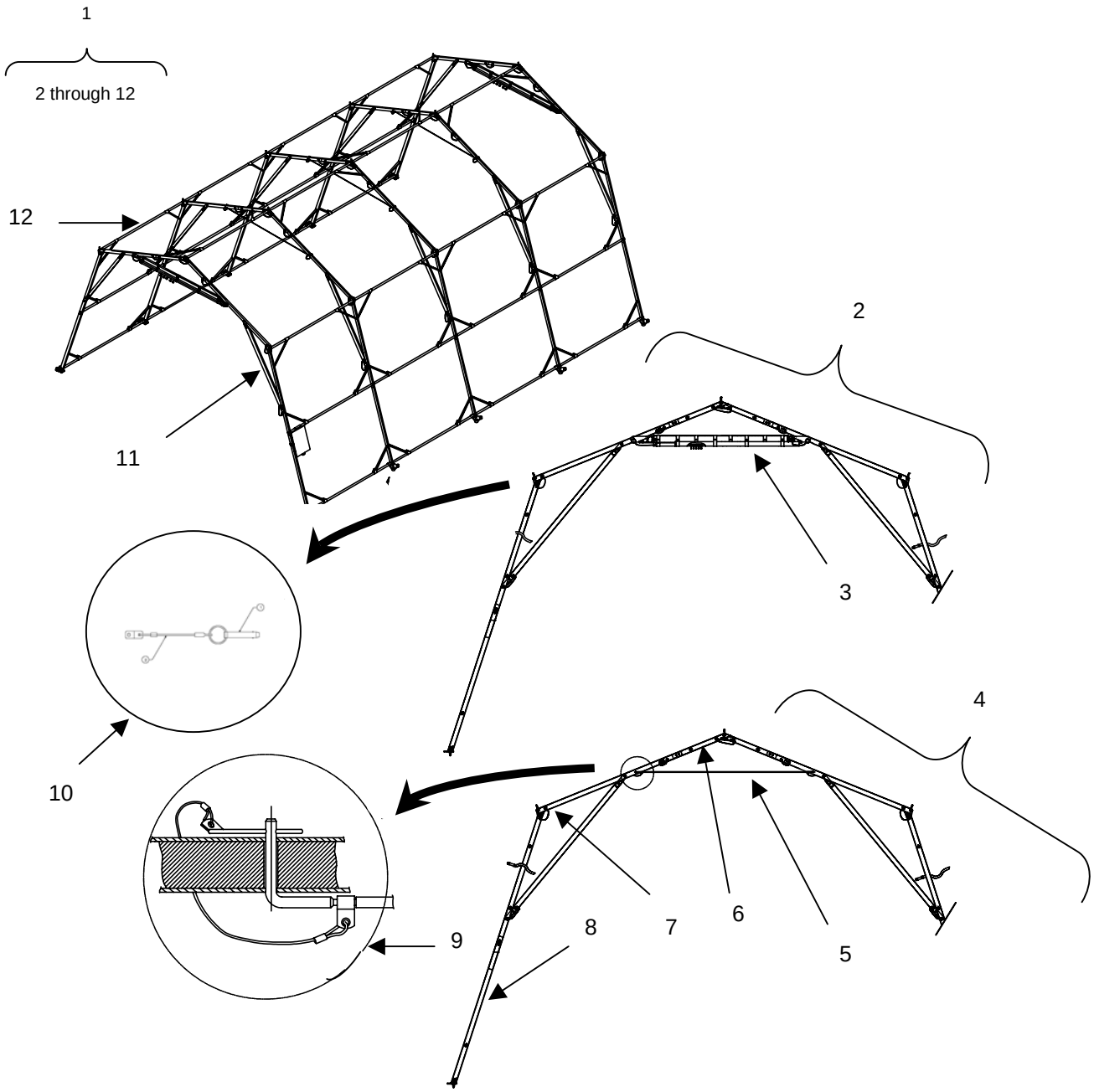


Figure 1. Frame Assembly.

(1) Item No	(2) SMR Code	(3) NSN	(4) CAGEC	(5) Part Number	(6) Description and Usable on Code (UOC)	(7) QTY
					GROUP 01 Frame, Assembly FIG. 1. Frame Assembly.	
1	PAOOO	8340-01-475-8132	81337	5-4-7862	Frame, Assembly UOC: FQH, FTD, FTE, FTF	1
2	PAOOO	8340-01-475-8150	81337	5-4-7863-1	. Support Frame Assy, w/Door Header UOC: FQH, FTD, FTE, FTF	2
3	PAOOO	8340-01-475-9651	81337	5-4-7885	.. Door Header Assembly Tent UOC: FQH, FTD, FTE, FTF	2
4	PAOOO	8340-01-475-9279	81337	5-4-7863-2	. Support , Frame Assy w/Cable Header UOC: FQH, FTD, FTE, FTF	3
5	PACOO	5340-01-477-9657	81337	5-4-7889	.. Cable, Header, Assembly UOC: FQH, FTD, FTE, FTF	3
6	PAOOO	8340-01-475-8152	81337	5-4-7864	.. Arch Tent Frame, Upper UOC: FQH, FTD, FTE, FTF	5
7	PAOOO	8340-01-475-8153	81337	5-4-7869	.. Arch Tent Frame, Lower UOC: FQH, FTD, FTE, FTF	10
8	PAOOO	8340-01-475-9530	81337	5-4-7877	..Lower Leg Assembly UOC: FQH,FTD,FTE,FTF	10
9	PAOZZ	5340-01-477-9709	81337	5-4-3342	… Hitch Clip Pin Assembly UOC: FQH, FTD, FTE, FTF	6
10	PAOZZ	5315-01-260-6624	81337	5-4-4154	… Pin, Quick Release UOC: FQH, FTD, FTE, FTF	38
11	PAOOO	8340-01-475-9509	81337	5-4-7879	.. Side, Assembly UOC: FQH, FTD, FTE, FTF	10
12	PACZZ	8340-01-186-3005	81337	5-4-3336	. Purlin, Tent UOC: FQH, FTD, FTE, FTF END OF FIGURE	28

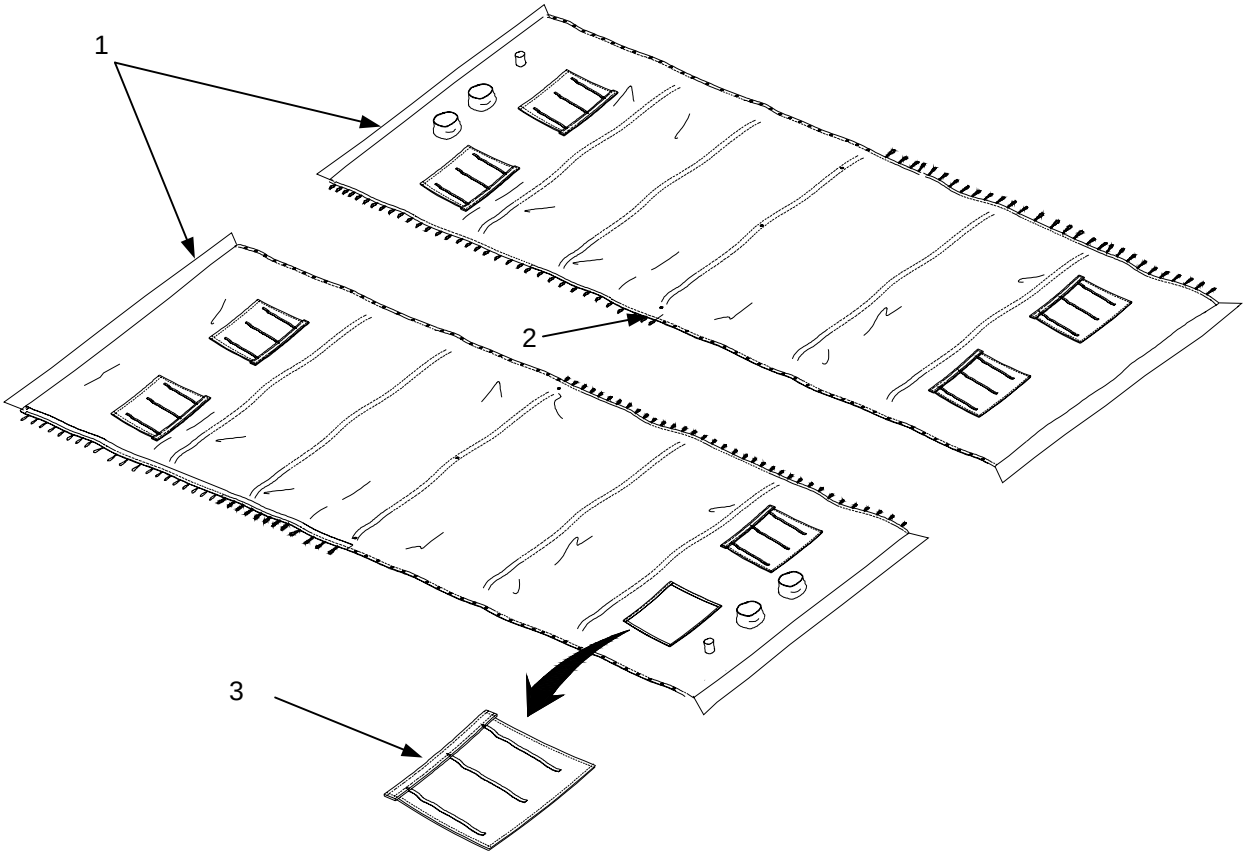


Figure 2. Intermediate Panel Fabric Assembly.

(1) Item No	(2) SMR Code	(3) NSN	(4) CAGEC	(5) Part Number	(6) Description and Usable on Code (UOC)	(7) QTY
					GROUP 02 Fabric Assembly, Intermediate Panel FIG. 2. Intermediate Panel Fabric Assembly.	
1	PAOFF	8340-01-475-9490	81337	5-4-7893-1	Fabric Assembly, Intermediate Panel, Green UOC: FQH	2
	PAOFF	8340-01-507-4376	81337	5-4-7893-2	Fabric Assembly, Intermediate Panel, Tan UOC: FTD	2
2	PAOZZ		81337	5-4-8736	. Hitch Clip Pin, Assembly UOC: FQH, FTD	14
3	PACZZ		81337	5-4-8727	. Fabric Section, Window Replaceable Assembly UOC: FQH, FTD END OF FIGURE	8

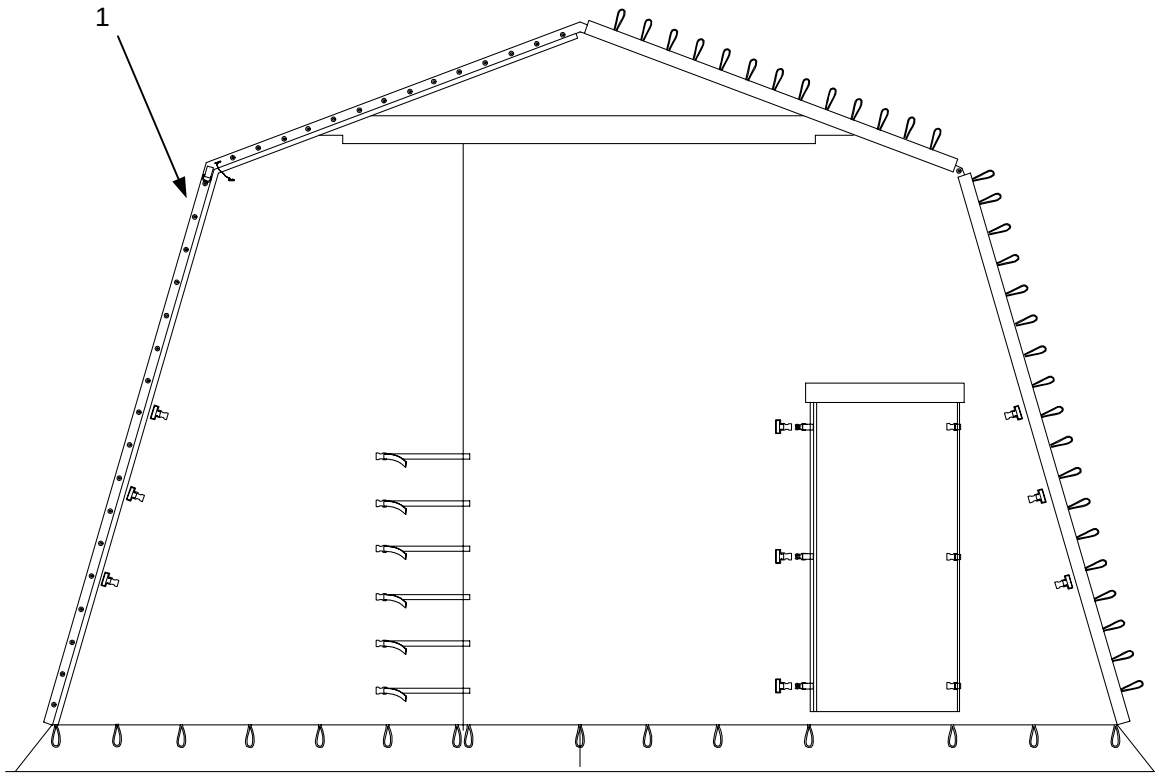


Figure 3. End Panel Fabric Assembly.

(1) Item No	(2) SMR Code	(3) NSN	(4) CAGEC	(5) Part Number	(6) Description and Usable on Code (UOC)	(7) QTY
					GROUP 03 Fabric Assembly, End Panel	
					FIG. 3. Fabric Assembly, End Panel.	
1	PAOFF	8340-01-475-9495	81337	5-4-7895-1	Fabric Assembly, End Panel, Green UOC: FQH	2
	PAOFF	8340-01-507-4378	81337	5-4-7895-2	Fabric Assembly, End Panel, Tan UOC: FTD END OF FIGURE	2

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I
GROUP 04 EXTENSION ASSEMBLY
5-4-7950
REPAIR PARTS LIST

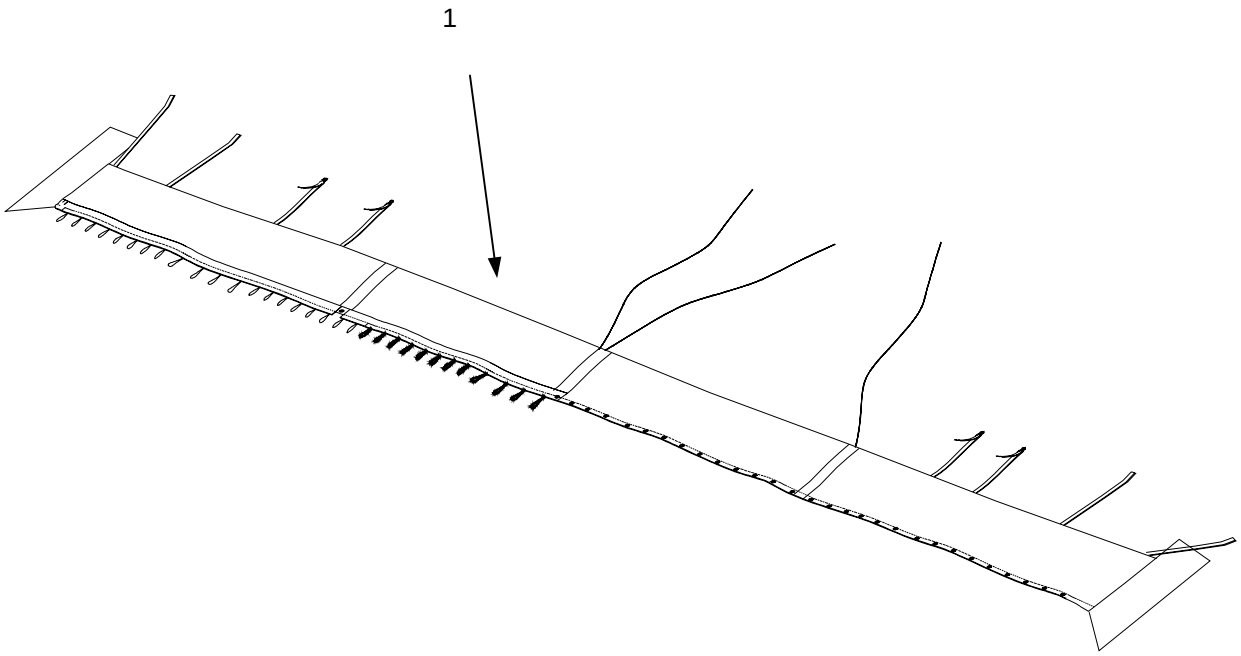


Figure 4. Extension Assembly.

(1) Item No	(2) SMR Code	(3) NSN	(4) CAGEC	(5) Part Number	(6) Description and Usable on Code (UOC)	(7) QTY
					GROUP 04 Extension Assembly FIG. 4. Extension Assembly.	
1	PAOFF	8340-01-475-9648	81337	5-4-7950-1	Extension Assembly, Green UOC: FQH	1
	XDOFF		81337	5-4-7950-2	Extension Assembly, Tan UOC: FTD END OF FIGURE	1

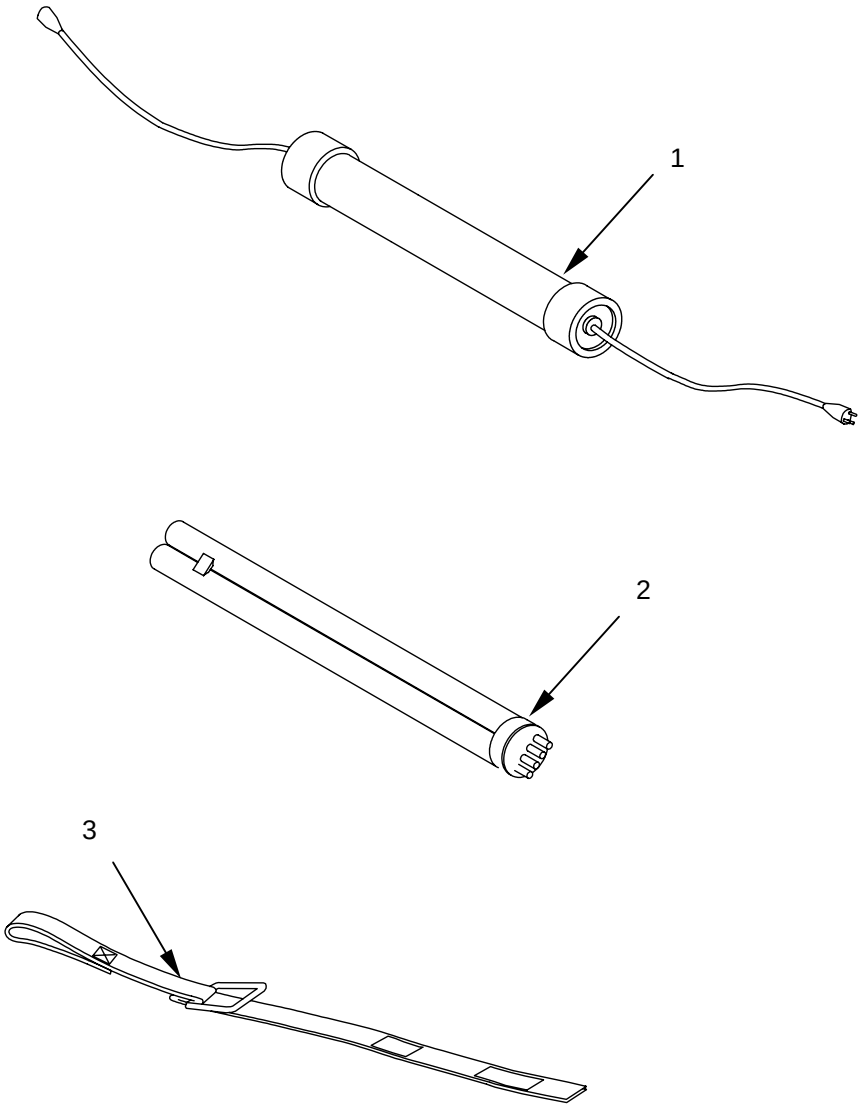


Figure 5. 50-W Light Kit Assembly.

(1) Item No	(2) SMR Code	(3) NSN	(4) CAGEC	(5) Part Number	(6) Description and Usable on Code (UOC)	(7) QTY
					GROUP 05 Assembly, Light Kit FIG. 5. 50-W Light Kit Assembly.	
1	PACOO		81337	5-4-8179	Assembly, Light Kit UOC: FQH, FTD, FTE, FTF	4
2	PACZZ	6240-01-477-9718	81337	5-4-8745	. Bulb, 50 W, Double Tube, 4 Pin UOC: FQH, FTD, FTE, FTF	4
3	PACZZ	5340-01-475-8205	81337	5-4-8734	. Light Support Strap Assembly UOC: FQH, FTD, FTE, FTF END OF FIGURE	8

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I
GROUP 06 POWER DISTRIBUTION BOX, 70 A
5-4-8785
REPAIR PARTS LIST

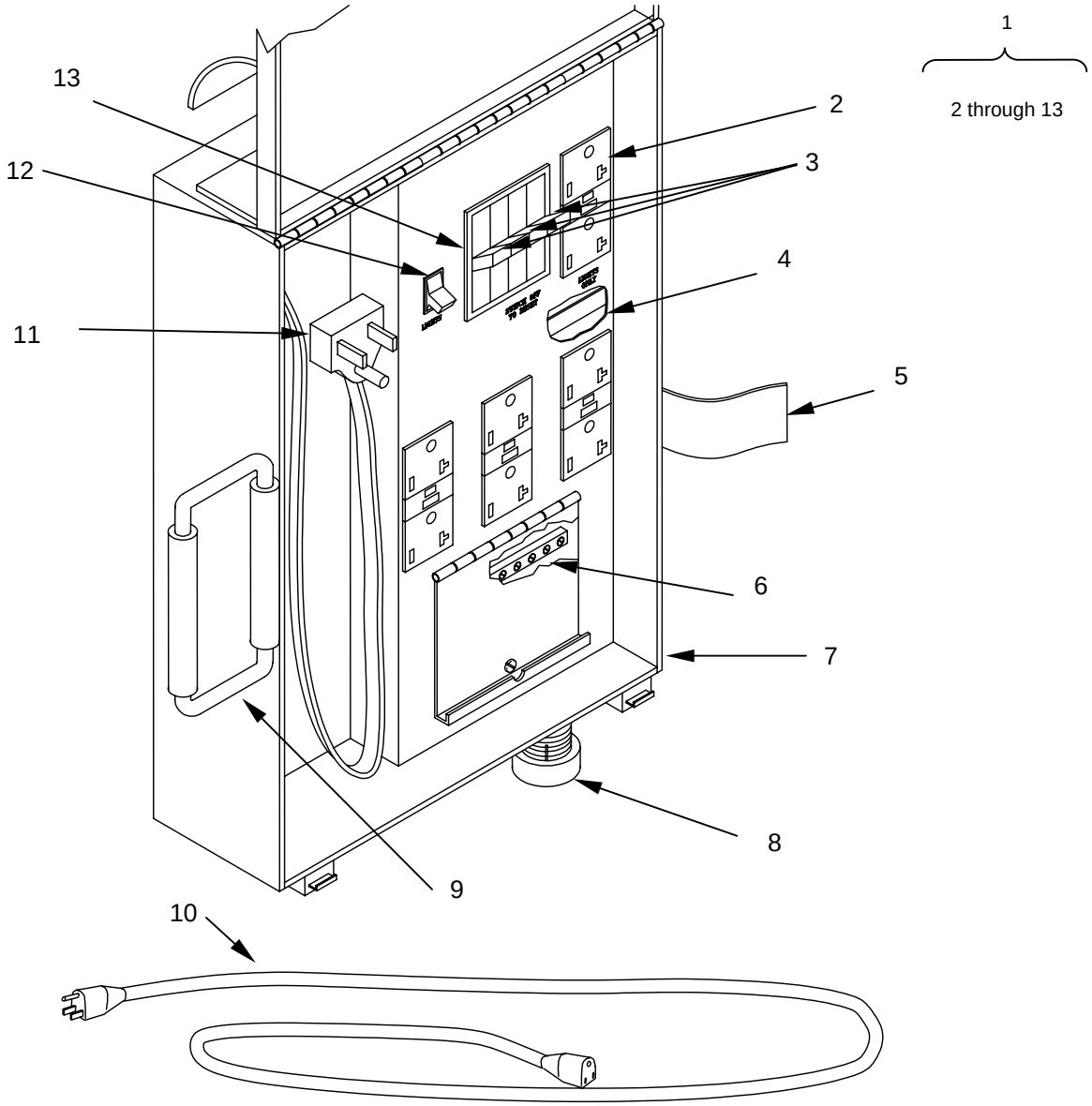


Figure 6. Power Distribution Box.

(1) Item No	(2) SMR Code	(3) NSN	(4) CAGEC	(5) Part Number	(6) Description and Usable on Code (UOC)	(7) QTY
					GROUP 06 Power Distribution Box, 70 A FIG. 6. Power Distribution Box.	
1	PAFFF	6120-01-475-8904	81337	5-4-8785	Power Distribution Box, 70 A UOC: FQH, FTD	1
2	PAFZZ	5925-01-271-6053	56365	GFDR-120BC	. G.F.C.I. Receptacle, 20 A, 120 VAC UOC: FQH, FTD	4
3	XDFZZ		OMYT8	C-HQCF1020	. Panel Mount Circuit Breaker 20 A UOC: FQH, FTD	3
4	XDFZZ		OMYT8	5-4-8717	. Power Distribution Neutral Block UOC: FQH, FTD	1
5	XDOZZ		81337	5-4-8721	. Side Strap Assembly, PDB UOC: FQH, FTD	1
6	XDFZZ		OMYT8	MTN1206	. H.D. Terminal Block, 6p, 70 A, 600 v UOC: FQH, FTD	1
7	XDFZZ		81337	5-4-8783	. Housing Assembly, Tent Light PDB UOC: FQH, FTD	1
8	XDOZZ		OMYT8	KILZS412	.. Cord Grip, Range 1-1.25 UOC: FQH, FTD	1
9	XDOZZ		OMYT8	A500-32-M21-SP	.. Collapsible Handle, Tent Light PDB UOC: FQH, FTD	1
10	XDCZZ		81337	5-4-8151	. Extension Cord, 25 in. UOC: FQH, FTD	1
11	XDCZZ		81337	5-4-8742	. Extension Cord, 10 in. UOC: FQH, FTD	1
12	XDFZZ		OMYT8	20AC1CPL	. Lighted Toggle Switch, 15A, 277 V UOC: FQH, FTD	1
13	XDFZZ		OMYT8	C-HQCF1010	. Panel Mount Circuit Breaker, 10 A UOC: FQH, FTD END OF FIGURE	1

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I AND TYPE II
GROUP 07 FABRIC TRANSPORT COVER WITH REPAIR KIT, FABRIC AND FRAME TRANSPORT COVERS AND BAGS
5-4-8728, 5-4-8158, 5-4-7953, 5-4-7954, 5-4-7951, 5-4-8159, 5-4-7952
REPAIR PARTS LIST

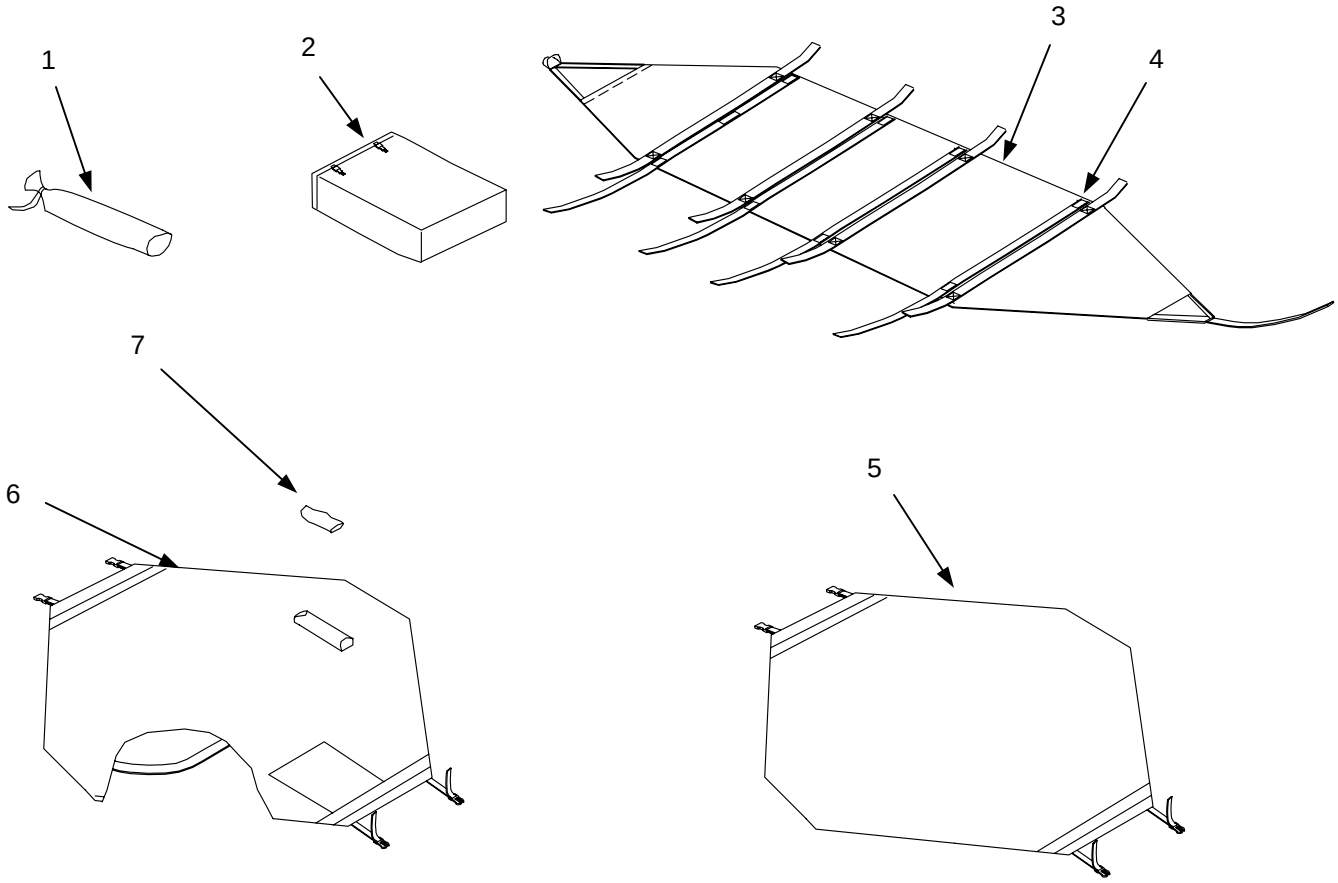


Figure 7. Fabric and Frame Transport Covers, and Power Distribution Bag and Tent Pin Bag.

(1) Item No	(2) SMR Code	(3) National Stock Number	(4) CAGEC	(5) Part Number	(6) Description and Usable on Code (UOC)	(7) QTY
					GROUP 07 Fabric Transport Cover w/ Repair Kit, and Fabric Transport Covers and Bags FIG. 7. Fabric and Frame Transport Covers, Power Distribution Bag and Tent Pin Bag.	
1	PACFF	8340-01-475-9486	81337	5-4-8728-1	Bag, Tent Pin, Transport, Green UOC:FQH, FTE	2
	PACFF		81337	5-4-8728-2	Bag, Tent Pin, Transport, Tan UOC:FTD, FTF	2
2	PACFF	6110-01-475-8275	81337	5-4-8158-1	Bag, Power Distribution, Green UOC:FQH	1
	PACFF		81337	5-4-8158-2	Bag, Power Distribution, Tan UOC:FTD	1
3	PACFF	8340-01-475-9499	81337	5-4-7953-1	Transport Cover, Frame, Green UOC:FQH, FTE	1
	PACFF		81337	5-4-7953-2	Transport Cover, Frame, Tan UOC:FTD, FTF	1
4	PACFF	8340-01-475-9504	81337	5-4-7954-1	Transport Cover, Frame, Green UOC:FQH, FTE	4
	PACFF		81337	5-4-7954-2	Transport Cover, Frame, Tan UOC:FTD, FTF	4
5	PACFF	8340-01-475-9860	81337	5-4-7952-1	Cover, Fabric Transport, Green UOC:FQH, FTE	1
	PACFF		81337	5-4-7952-2	Cover, Fabric Transport, Tan UOC:FTD, FTF	1
6	PACFF	8340-01-475-9864	81337	5-4-7951-1	Cover, Fabric Transport w/ Repair Kit, Green UOC:FQH, FTE	1
	PACFF		81337	5-4-7951-2	Cover, Fabric Transport w/ Repair Kit, Tan UOC:FTD, FTF	1
7	PAOFF	6110-01-475-8229	81337	5-4-8159-1	. Repair Kit, Tentage (Green) UOC:FQH, FTE	1
	PAOFF		81337	5-4-8159-2	. Repair Kit, Tentage (Tan) UOC:FTD, FTF	1
					END OF FIGURE	

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
GROUP 08 TENT PINS, GUY LINES AND TENT SLIPS
NSN 8340-01-456-3637, TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867, TYPE II (GREEN), NSN 5410-01-512-6868 (TAN)
REPAIR PARTS LIST

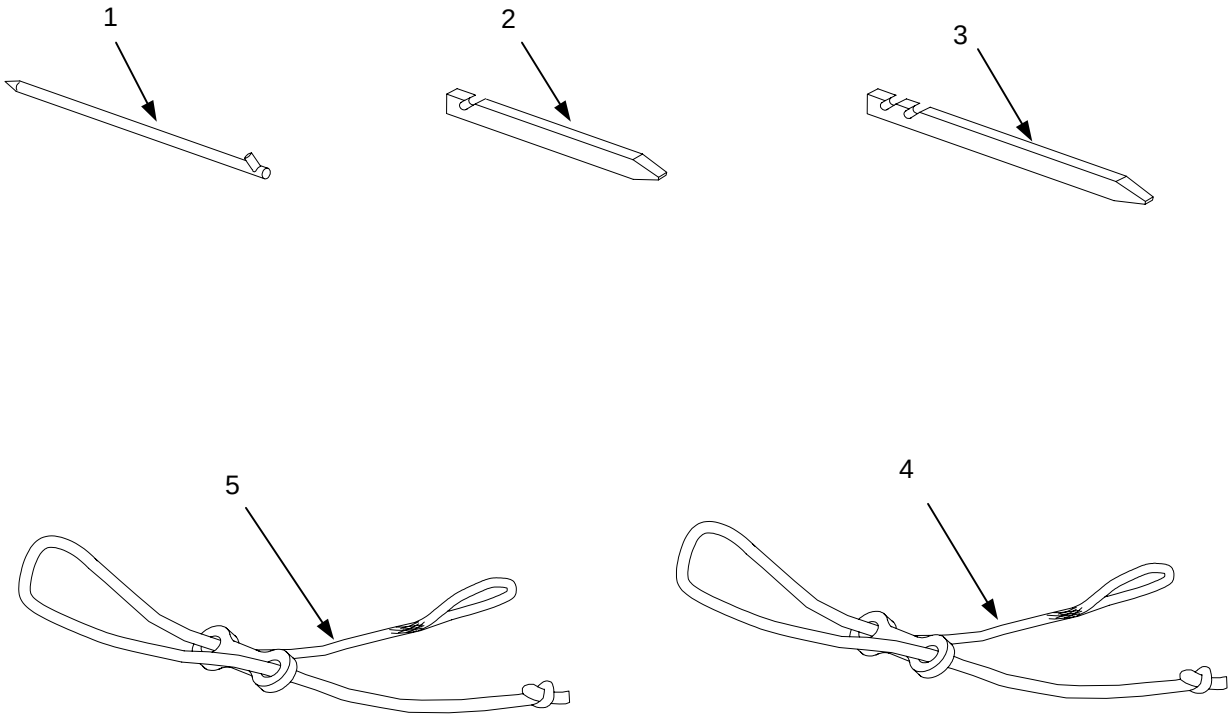


Figure 8. Type I and Type II - Tent Pins, Guy Lines and Slips.

(1) Item No	(2) SMR Code	(3) NSN	(4) CAGEC	(5) Part Number	(6) Description and Usable on Code (UOC)	(7) QTY
					GROUP 08 Tent Pins and Guy Lines and Tent Slips FIG. 8. Type I and Type II - Tent Pins and Guy Lines and Tent Slips.	
1	PACZZ	8340-00-985-7461	81337	5-4-8176	Tent Pin, Steel, 18-in. UOC: FQH, FTD, FTE, FTF	20
2	PACZZ	8340-00-261-9750	81337	5-4-8175	Tent Stake, Wood, 16-in. UOC: FQH, FTD, FTE, FTF	50
3	PACZZ	8340-00-261-9751	81337	5-4-8177	Tent Stake, Wood, 24-in. UOC: FQH, FTD, FTE, FTF	26
4	PACZZ	4010-01-475-9502	81337	5-4-7967	Guy Line w/Slip Assembly, 14-ft 1-in. UOC: FQH, FTD, FTE, FTF	24
5	PACZZ	4010-01-476-0210	81337	5-4-7966	Guy Line w/Slip Assembly, 23-ft 1-in. UOC: FQH, FTD, FTE, FTF END OF FIGURE	20

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
GROUP 09 LME TYPE II, LAUNDRY ADVANCED SYSTEM (LADS)
NSN 5410-01-512-6867 (GREEN), NSN 5410-01-512-6868 (DESERT TAN)
REPAIR PARTS LIST

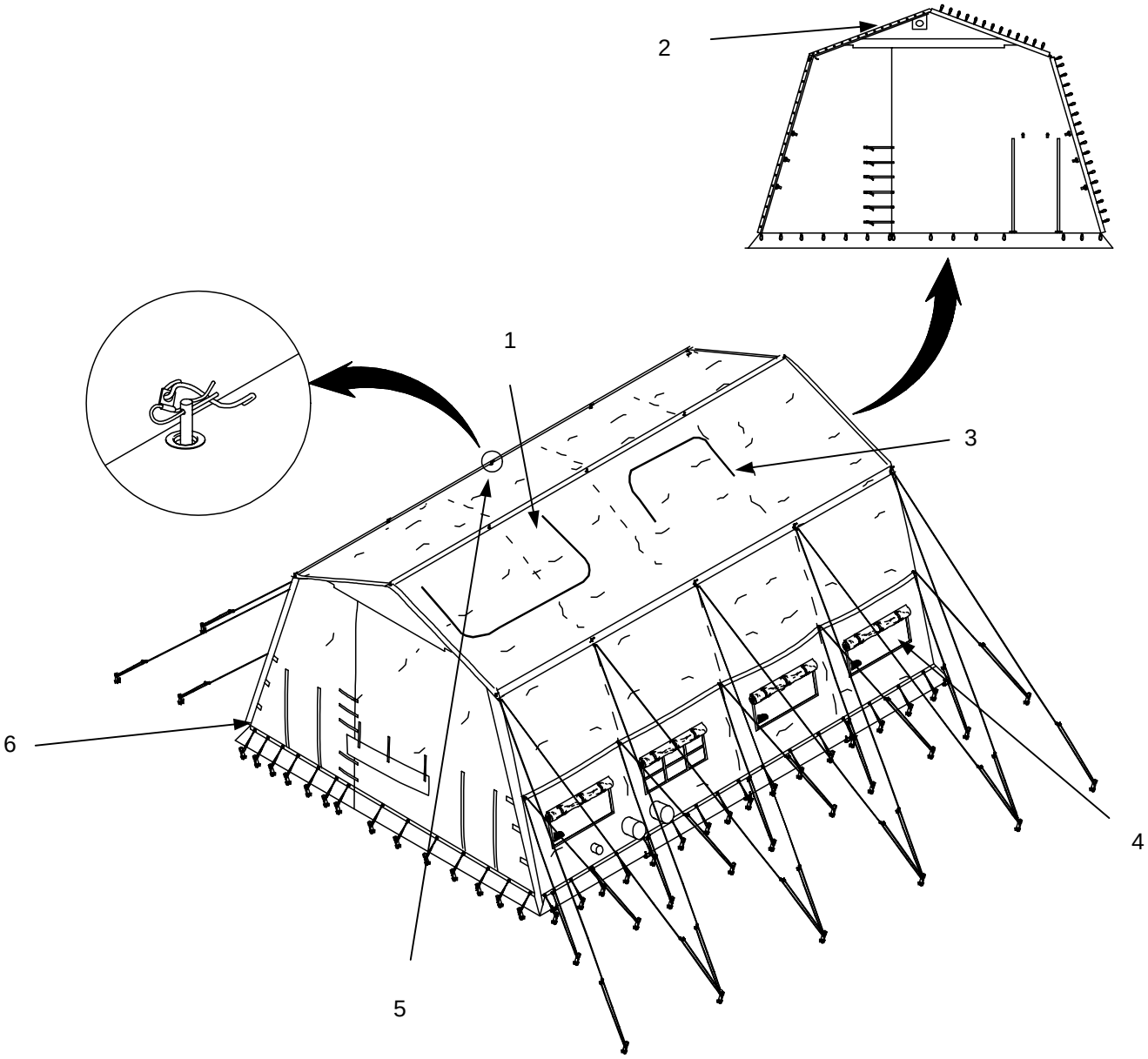


Figure 9. LME, Type II, LADS.

(1) Item No	(2) SMR Code	(3) NSN	(4) CAGEC	(5) Part Number	(6) Description and Usable on Code (UOC)	(7) QTY
					GROUP 09 LME Type II, Laundry Advanced System (LADS)	
					FIG. 9. LME, TYPE II, LADS.	
1	PAOFF		81337	5-4-8764-1	Fabric Assembly, Intermediate Panel, with 10-ft Vent, Green UOC: FTE	1
	PAOFF		81337	5-4-8764-2	Fabric Assembly, Intermediate Panel, with 10-ft Vent, Tan UOC: FTF	1
2	PAOFF		81337	5-4-8765-1	Fabric Assembly, End Panel, LADS with Stove Pipe, Green UOC: FTE	1
	PAOFF		81337	5-4-8765-2	Fabric Assembly, End Panel, LADS with Stove Pipe, Tan UOC: FTF	1
3	PAOFF		81337	5-4-8763-1	Fabric Assembly, Intermediate Panel, with 7 ft Vent, Green UOC: FTE	1
	PAOFF		81337	5-4-8763-2	Fabric Assembly, Intermediate Panel, with 7-ft Vent, Tan UOC: FTF	1
4	PACZZ		81337	5-4-8727	. Fabric Section, Window Replaceable Glass Assembly UOC: FTF, FTE	8
5	PAOZZ		81337	5-4-8736	. Hitch Clip Pin Assembly UOC: FTE, FTF	14
6	PAOFF		81337	5-4-8767-1	Fabric Assembly, End Panel, LADS, Green UOC: FTE	1
	PAOFF		81337	5-4-8767-2	Fabric Assembly, End Panel, LADS, Tan UOC: FTF END OF FIGURE	1

OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME)
GROUP 10 KIT ASSEMBLY, 8-FOOT EXTENSION, LME
5-4-8770-1, 5-4-8770-2
REPAIR PARTS LIST

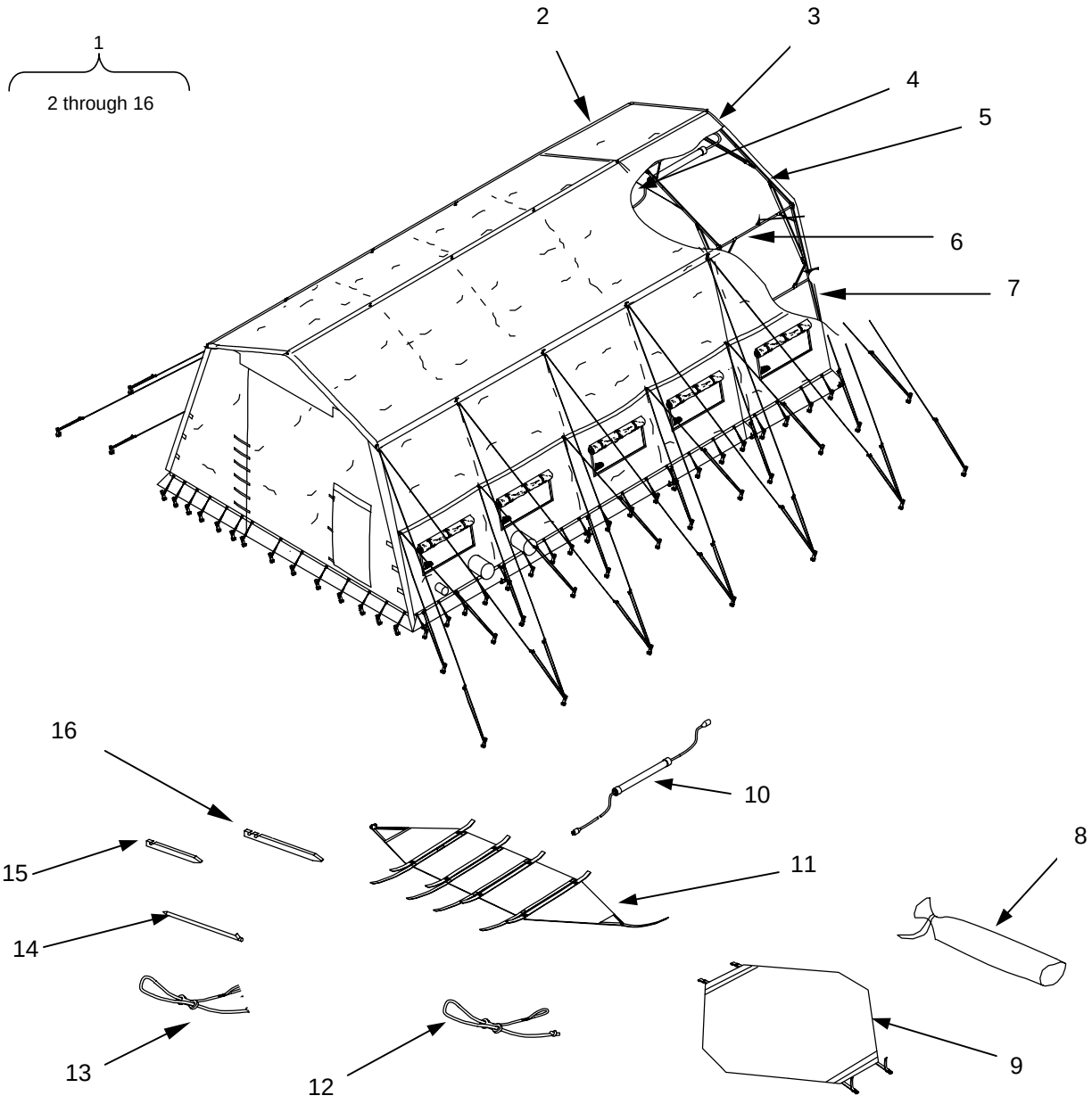


Figure 10. 8-Foot Extension Assembly Kit.

(1) Item No	(2) SMR Code	(3) NSN	(4) CAGEC	(5) Part Number	(6) Description and Usable on Code (UOC)	(7) QTY
					GROUP 10 Kit Assembly, 8-ft Extension, LME FIG. 10. 8-Foot Extension Assembly Kit.	
1	PAOFF	5410-01-512-6844	81337	5-4-8770-1	Kit Assembly, 8-ft Extension, LME, Green UOC: FQH	1
	PAOFF	5410-01-512-6860	81337	5-4-8770-2	Kit Assembly, 8-ft Extension, LME, Tan UOC: FTD	1
2	PAOFF		81337	5-4-8771-1	. Fabric Assembly, Intermediate Panel, 8-ft, Green UOC: FQH	1
	PAOFF		81337	5-4-8771-2	. Fabric Assembly, Intermediate Panel, 8-ft, Tan UOC: FTD	1
3	PAOOO	8340-01-475-8152	81337	5-4-7864	. Arch, Tent Frame, Upper UOC: FQH, FTD	1
4	PACOO	5340-01-477-9657	81337	5-4-7889	. Cable, Header, Assembly UOC: FQH, FTD	1
5	PAOOO	8340-01-475-8153	81337	5-4-7869	. Arch, Tent Frame, Lower UOC: FQH, FTD	2
6	PACZZ	8340-01-186-3005	81337	5-4-3336	. Purlin, Tent UOC: FQH, FTD	7
7	PAOOO	8340-01-475-9530	81337	5-4-7877	. Lower Leg Assembly UOC: FQH, FTD	2
8	PACFF	8340-01-475-9486	81337	5-4-8760-1	. Tent Pin Transport Bag, Green UOC: FQH	1
	PACFF		81337	5-4-8760-2	. Tent Pin Transport Bag, Tan UOC: FTD	1
9	PACFF		81337	5-4-8758-1	. Fabric Transport Cover, Green UOC: FQH	1
	PACFF		81337	5-4-8758-2	. Fabric Transport Cover, Tan UOC: FTD	1
10	PACOO		81337	5-4-8179	. Assembly, Light Kit UOC: FQH, FTD	1
11	PACFF		81337	5-4-8759-1	. Frame Transport Cover, Green UOC: FQH	1
	PACFF		81337	5-4-8759-2	. Frame Transport Cover, Tan UOC: FTD	1
12	PACZZ	4010-01-475-9502	81337	5-4-7967	. Guy Line w/Slip, 14-ft 1 in. UOC: FQH, FTD	8
13	PACZZ	4010-01-476-0210	81337	5-4-7966	. Guy Line w/Slip, 23-ft 1in. UOC: FQH, FTD	6
14	PACZZ	8340-00-985-7461	81337	5-4-8176	. Tent Pin, Steel, 18 in. UOC: FQH, FTD	4
15	PACZZ	8340-00-261-9750	81337	5-4-8175	. Tent Stake, Wood, 16 in. UOC: FQH, FTD	8
16	PACZZ	8340-00-261-9751	81337	5-4-8177	. Tent Stake, Wood, 24 in. UOC: FQH, FTD END OF FIGURE	8

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I AND II
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN) NSN 5410-01-512-6868 (TAN)
NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM
8340-00-261-9750	8	2
	10	15
8340-00-261-9751	8	3
	10	16
8340-00-985-7461	8	1
	10	14
8340-01-186-3005	1	12
	10	6
5315-01-260-6624	1	10
5925-01-271-6053	6	2
6230-01-465-8931	10	10
6150-01-475-7840	6	7
8340-01-475-8132	1	1
8340-01-475-8150	1	2
8340-01-475-8152	1	6
	10	3
8340-01-475-8153	1	7
	10	5
5340-01-475-8205	5	3
8340-01-475-8229	7	6
	12	1
6110-01-475-8275	7	2
6120-01-475-8904	6	1
8340-01-475-9279	1	4
8340-01-475-9486	7	1
	10	8
8340-01-475-9490	2	1
8340-01-475-9495	3	1
8340-01-475-9499	7	3
4010-01-475-9502	8	4
	10	13
8340-01-475-9504	7	4
8340-01-475-9509	1	11
8340-01-475-9530	1	8
	10	7
8340-01-475-9648	4	1
8340-01-475-9651	1	3
8340-01-475-9657	1	5
8340-01-475-9860	7	7
	10	1
8340-01-475-9864	7	6
8340-01-476-0020	11	2
8340-01-476-0037	11	1

STOCK NUMBER	FIG.	ITEM
4010-01-476-0210	8	5
	10	12
4040-01-476-0389	11	3
8340-01-477-9657	1	8
	10	4
5340-01-477-9709	1	9
6240-01-477-9718	5	2
8340-01-507-4376	2	1
8340-01-507-4378	3	1
5410-01-512-6844	10	1
5410-01-512-6868	10	1
8340-01-985-7461	8	1

OPERATOR'S, UNIT AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I AND TYPE II
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN) NSN 5410-01-512-6868 (TAN)
PART NUMBER INDEX

PART NUMBER	FIG NO.	ITEM NO.
20AC1CPL	6	12
5-4-3336	1	12
5-4-3336	10	6
5-4-3342	1	9
	3	1
5-4-4154	1	10
5-4-7862	1	1
5-4-7863-1	1	2
5-4-7863-2	1	4
5-4-7864	1	6
5-4-7864	10	3
5-4-7869	1	7
5-4-7869	10	5
5-4-7877	1	8
5-4-7877	10	7
5-4-7879	1	11
5-4-7885	1	3
5-4-7889	1	5
5-4-7889	10	4
5-4-7893-1	2	1
5-4-7893-2	2	1
5-4-7895-1	3	1
5-4-7895-2	3	1
5-4-7950-1	4	1
5-4-7950-2	4	1
5-4-7951-1	7	6
5-4-7951-2	7	6
5-4-7952-1	7	5
5-4-7952-2	7	5
5-4-7953-1	7	3
5-4-7953-2	7	3
5-4-7954-1	7	4
5-4-7954-2	7	4
5-4-7966	8	5
	10	13
5-4-7967	8	4
	10	12
5-4-7971	5	3
5-4-8151	6	10

PART NUMBER	FIG NO.	ITEM NO.
5-4-8158-1	7	2
5-4-8158-2	7	2
5-4-8159-1	7	7
	12	1
5-4-8159-2	7	6
	12	1
5-4-8175	8	2
5-4-8175	10	15
5-4-8176	8	1
5-4-8176	10	14
5-4-8177	8	3
5-4-8177	10	16
5-4-8179	5	1
	10	10
5-4-8185	5	2
5-4-8194	5	1
5-4-8195	10	12
5-4-8196	10	13
5-4-8717	6	4
5-4-8721	6	5
5-4-8727	2	3
5-4-8727	9	4
5-4-8728-1	7	1
5-4-8728-2	7	1
5-4-8734	5	3
5-4-8736	2	2
5-4-8736	9	5
5-4-8742	6	11
5-4-8745	5	2
5-4-8758-1	10	9
5-4-8758-2	10	9
5-4-8759-1	10	11
5-4-8759-2	10	11
5-4-8760-1	10	8
5-4-8760-2	10	8
5-4-8763-1	9	3
5-4-8763-2	9	3
5-4-8764-1	9	1
5-4-8764-2	9	1

PART NUMBER	FIG NO.	ITEM NO.
5-4-8765-1	9	2
5-4-8765-2	9	2
5-4-8767-1	9	6
5-4-8767-2	9	6
5-4-8770-1	10	1
5-4-8770-2	10	1
5-4-8771-1	10	2
5-4-8771-2	10	2
5-4-8765-1	9	5
5-4-8765-2	9	5
5-4-8767-1	9	6
5-4-8767-2	9	6
5-4-8783	6	7
5-4-8785	6	1
5-4-9000	2	2
5-4-9010	10	9
5-4-9020	10	11
5-4-9030	10	8
5-4-9050	10	7
5-4-9090	10	10
A500-32-M21-SP	6	9
C-HQCF1010	6	13
C-HQCF1020	6	3
GFDR-120BC	6	2
KILZS412	6	8
MTN1206	6	6

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I AND TYPE II NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN) NSN 5410-01-512-6867 TYPE II (GREEN) NSN 5410-01-512-6868 (TAN) COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST

INTRODUCTION

Scope

This work package lists COEI and BII for the LME to help you inventory items for safe and efficient operation of the equipment.

General

The COEI and BII information is divided into the following lists:

Components of End Item (COEI). This list is for information purposes only and is not authority to requisition replacements. These items are part of the LME. As part of the end item, these must be with the end item whenever it is issued or transferred between property accounts. Items of COEI are removed and separately packaged for transportation or shipment only when necessary. Illustrations are furnished to help you find and identify the items.

Basic Issue Items (BII). These essential items are required to place the LME in operation, operate it, and to do emergency repairs. Although shipped separately packaged, BII must be with the LME during operation and when it is transferred between property accounts. Listing these items is your authority to request/requisition them for replacement based on authorization of the end item by the TOE/MTOE. Illustrations are furnished to help you find and identify the items.

Explanation of Columns in the COEI List and BII List

Column (1)- Illus Number, gives you the number of the item illustrated.

Column (2)- National Stock Number (NSN), identifies the stock number of the item to be used for requisitioning purposes.

Column (3)- Description, CAGEC, and Part Number. Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The stowage location of COEI and BII is also included in this column. The last line below the description is the CAGEC (commercial and Government entity code) (in parenthesis) and the part number.

Column (4), Usable on code. When applicable, gives you a code if the item you need is not the same for different models of equipment. These codes are identified below:

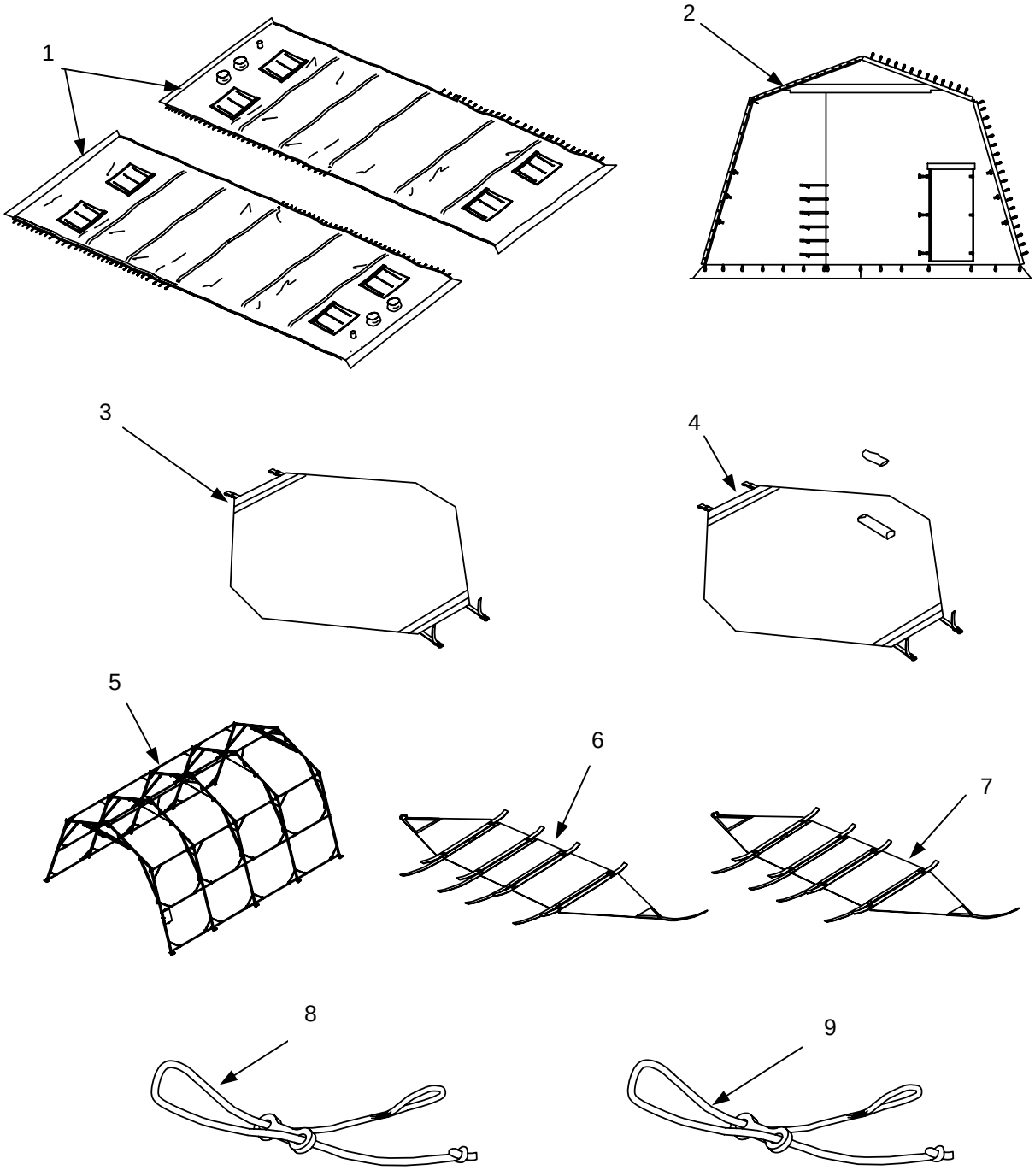
Code	Used On
FQH	LME Type I (Green)
FTD	LME Type I (Tan)
FTE	LME Type II (LADS) (Green)
FTF	LME Type II (LADS) (Tan)

Column (5)- (U/M). Indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (2).

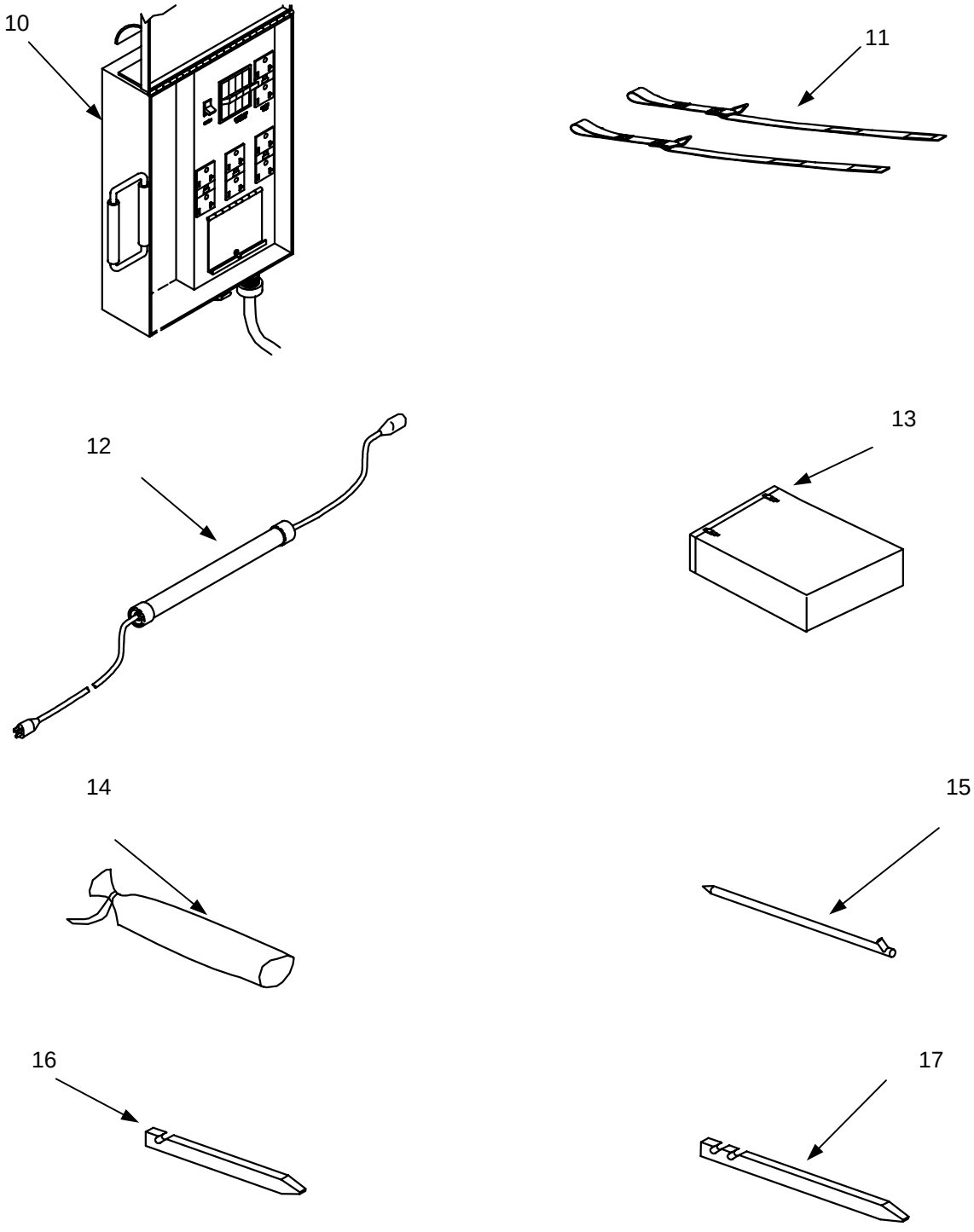
Column (6)- Qty Rqr. Indicates the quantity required.

COMPONENTS OF END ITEM (COEI) LIST

LME Type I



Components of End Item, Type I LME

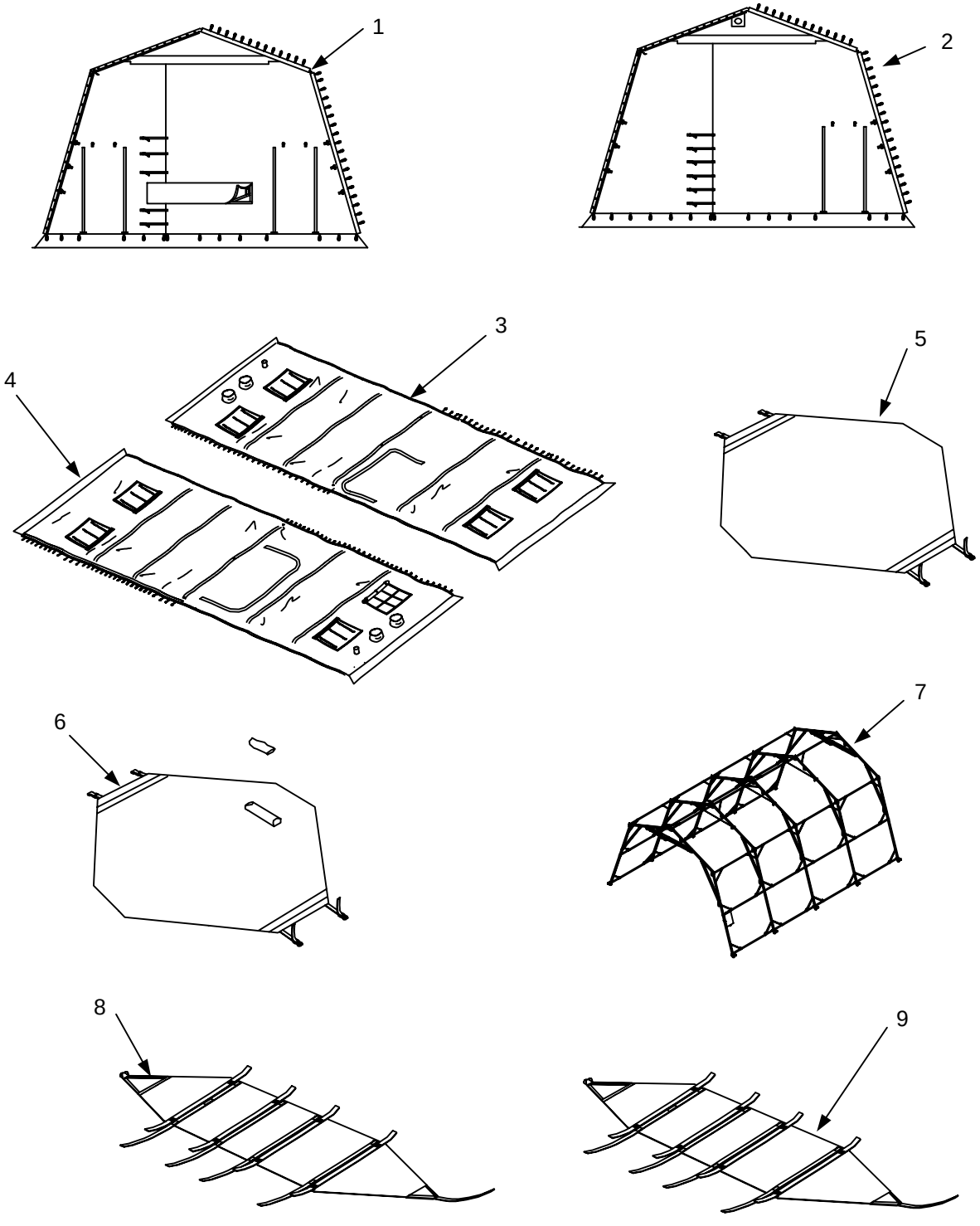


Components of End Item, Type I LME – Continued

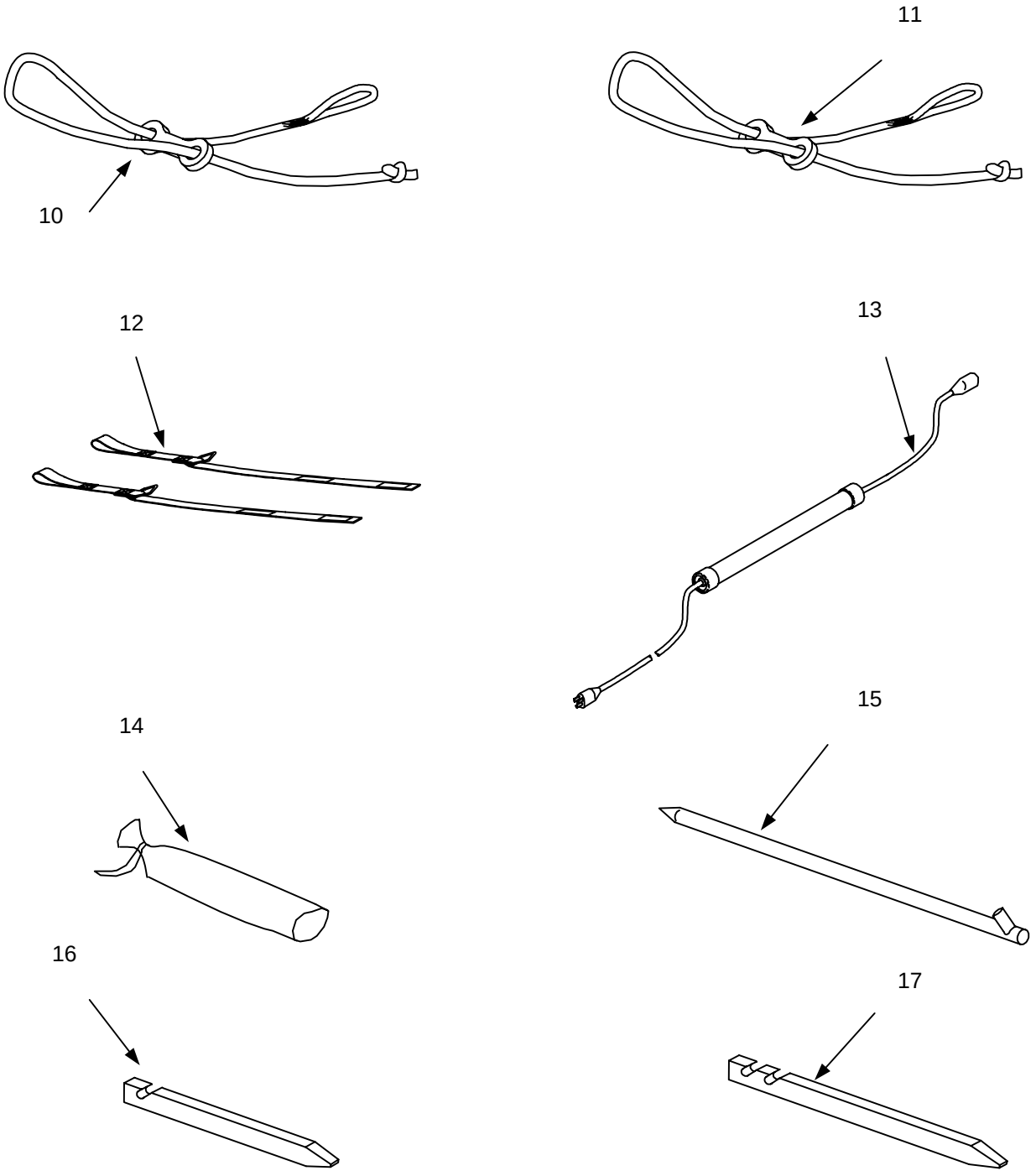
Table 1. Components of End Item List, Type I LME.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, CAGEC, and Part Number	(4) Usable on Code	(5) Unit of Measure U/M	(6) Qty Rqr
1	8340-01-475-9490	Fabric Assembly, Intermediate Panel,Green (81337)	FQH	ea	2
		Fabric Assembly, Intermediate Panel, Tan (81337)	FTD	ea	2
2	8340-01-475-9495	Fabric Assembly, End Panel, Green (81337)	FQH	ea	2
		Fabric Assembly, End Panel, Tan (81337)	FTD	ea	2
3	8340-01-475-9860	Fabric Transport Cover, Green (81337)	FQH	ea	1
		Fabric Transport Cover, Tan (81337)	FTD	ea	1
4	8340-01-475-9864	Fabric Transport Cover / Repair Kit, Green (81337)	FQH	ea	1
		Fabric Transport Cover / Repair Kit, Tan (81337)	FTD	ea	1
5	8340-01-475-8132	Frame Assembly, LME (81337)	FQH, FTD	ea	1
6	8340-01-475-9504	Frame Transport Cover, Green (81337)	FQH	ea	4
		Frame Transport Cover, Tan (81337)	FTD	ea	4
7	8340-01-475-9499	Frame Transport Cover, Green (81337)	FQH,	ea	1
		Frame Transport Cover, Tan (81337)	FTD	ea	1
8	4010-01-475-9502	Guy Line w/ Slip, 14-ft 1 in. (81337)	FQH, FTD	ea	24
9	4010-01-476-0210	Guy Line w/Slip, 23-ft 1 in. (81337)	FQH, FTD	ea	20
10	6120-01-475-8904	Power distribution Box (81337)	FQH, FTD	ea	1
11	5340-01-475-8205	Light strap (81337)	FQH, FTD	ea	8
12		Light Assembly, 50 Watt (81337)	FQH, FTD	ea	4
13	6110-01-475-8275	Bag, Power Distribution (81337)	FQH, FTD	ea	1
14	8340-01-475-9486	Tent Pin Bag (81337)	FQH, FTD	ea	2
15	8340-00-985-7461	Tent Pin, Steel, 18 in. (81337)	FQH, FTD	ea	20
16	8340-00-261-9750	Tent Pin, Wood, 16 in. (81337)	FQH, FTD	ea	50
17	8340-00-261-9751	Tent Pin, Wood, 24 in. (81337)	FQH, FTD	ea	26

LME Type II



Components of End Item, Type II LME – Continued



Components of End Item, Type II LME – Continued

Table 2. Components of End Item List, Type II LME.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, CAGEC, and Part Number	(4) Usable on Code	(5) Unit of Measure U/M	(6) Qty Rqr
1		Fabric Assembly, End Panel, LADS, Green (81337) 5-4-8767-1	FTE	ea	1
		Fabric Assembly, End Panel, LADS, Tan (81337) 5-4-8767-2	FTF	ea	1
2		Fabric Assembly, End Panel, w/Stovepipe Shield, Green (81337) 5-4-8765-1	FTE	ea	1
		Fabric Assembly, End Panel, w/Stovepipe Shield, Tan (81337) 5-4-8765-2	FTF	ea	1
3		Fabric Assembly, Intermediate Panel with 7-foot Vent, Green (81337) 5-4-8763-1	FTE	ea	1
		Fabric Assembly, Intermediate Panel with 7-foot Vent, Tan (81337) 5-4-8763-2	FTF	ea	1
4		Fabric Assembly, Intermediate Panel with 10-foot Vent, Green (81337) 5-4-8764-1	FTE	ea	1
		Fabric Assembly, Intermediate Panel with 10-foot Vent, Tan (81337) 5-4-8764-2	FTF	ea	1
5	8340-01-475-9860	Fabric Transport Cover (81337)	FTE, FTF	ea	1
6	8340-01-475-9864	Fabric Transport Cover / Repair Kit (81337)	FTE, FTF	ea	1
7	8340-01-475-8132	Frame Assembly, LME (81337)	FTE, FTF	ea	1

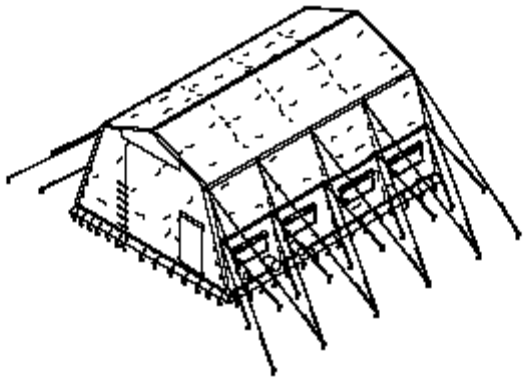
Table 2. Components of End Item List, Type II LME - Continued.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, CAGEC, and Part Number	(4) Usable on Code	(5) Unit of Measure U/M	(6) Qty Rqr
8	8340-01-475-9499	Frame Transport Cover (81337)	FTE, FTF	ea	4
9	8340-01-475-9504	Frame Transport Cover (81337)	FTE, FTF	ea	1
10	4010-01-475-9502	Guy Line w/ Slip, 14-ft 1 in. (81337)	FTE, FTF	ea	24
11	4010-01-476-0210	Guy Line w/Slip, 23-ft 1 in. (81337)	FTE, FTF	ea	20
12	5340-01-475-8205	Light strap (81337)	FTE, FTF	ea	8
13		Light Assembly, 50 Watt (81337) 5-4-8179	FTE, FTF	ea	4
14	8340-01-475-9486	Tent Pin Bag (81337)	FTE, FTF	ea	2
15	8340-00-985-7461	Tent Pin, Steel, 18 in. (81337)	FTE, FTF	ea	20
16	8340-00-261-9750	Tent Pin, Wood, 16 in. (81337)	FTE, FTF	ea	50
17	8340-00-261-9751	Tent Pin, Wood, 24 in. (81337)	FTE, FTF	ea	26

BASIC ISSUE ITEMS LIST

TM 10-5410-284-13&P

OPERATOR'S, UNIT, AND DIRECT SUPPORT
MAINTENANCE MANUAL, INCLUDING
REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)
FOR THE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I
NSN 8340-01-456-3637 (GREEN)
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I
NSN 5410-01-512-6865 (DESERT TAN)
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE II
NSN 5410-01-512-6867 (GREEN)
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE II
NSN 5410-01-512-6868 (DESERT TAN)



DISTRIBUTION STATEMENT A - Approved for public release: Distribution is unlimited.

SUPERSEDURE NOTICE This technical manual supersedes TM 10-5410-284-13&P, dated 30 July 1999, which should be destroyed in accordance with applicable security regulations.

HEADQUARTERS, DEPARTMENT OF THE ARMY
31 MARCH 2004

Table 3. Basic Issue Items List.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, CAGEC, and Part Number	(4) Usable on Code	(5) Unit of Measure U/M	(6) Qty Rqr
1	N/A	TM 10-5410-284-13&P	N/A	ea	1

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I AND TYPE II NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN) NSN 5410-01-512-6867 TYPE II (GREEN) NSN 5410-01-512-6868 (TAN) ADDITIONAL AUTHORIZATION LIST (AAL)

INTRODUCTION

Scope

This work package lists additional items you are authorized for the support of the *(enter short item name)*.

General

This list identifies items that do not have to accompany the LME and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA.

Explanation of Columns in the AAL

Column (1) — National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.

Column (2) — Description, Commercial and Government Entity Code (CAGEC), and Part Number (P/N). Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The last line below the description is the CAGEC (in parentheses) and the part number.

Column (3) — Usable On Code. When applicable, gives you a code if the item you need is not the same for different models of equipment. *(Add the following only as applicable. Replace Xs with appropriate codes and model numbers.) These codes are identified below:*

Code	Usable On
FQH	LME Type I (Green)
FTD	LME Type I (Tan)
FTE	LME Type II (LADS) (Green)
FTF	LME Type II(LADS) (Tan)

Column (4) — Unit of Measure (U/M). Indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (1).

Column (5) — Qty Recm. Indicates the quantity recommended.

ADDITIONAL AUTHORIZED LIST

(1) National Stock Number (NSN)	(2) Description, Commercial and Government Entity Code (CAGEC), and Part Number (P/N)	(3) Usable on Code	(4) Unit of Measure U/M	(5) Qty Recm.
8340-01-475-9648	Extension Assembly, (81337) 5-4-7950	FQH, FTD	ea	1
5120-00-900-6098	Hammer, Sledge, 12-lb (80244)	FQH, FTD, FTE, FTF	ea	1
5120-00-926-7116	Mallet, Wood	FQH, FTD, FTE, FTF	ea	1
	Painter's Pole (088W9) R057	FQH, FTD	ea	1
8340-00-262-5767	Tentage, Repair Kit (81349) MIL-C-3372	FQH, FTD, FTE, FTF	ea	1
5410-01-512-6844	Kit, Assembly, 8-ft Extension, LME, Green	FQH	ea	1
5410-01-512-6860	Kit, Assembly, 8-ft Extension, LME, Tan	FTD	ea	1

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
LIGHTWEIGHT MAINTENANCE ENCLOSURE (LME) TYPE I AND TYPE II
NSN 8340-01-456-3637 TYPE I (GREEN), NSN 5410-01-512-6865 (TAN)
NSN 5410-01-512-6867 TYPE II (GREEN) NSN 5410-01-512-6868 (TAN)
EXPENDABLE AND DURABLE ITEMS LIST

EXPENDABLE AND DURABLE ITEMS LIST

This work package lists expendable and durable items that you will need to operate and maintain the Lightweight Maintenance Enclosure (LME). This listing is for information only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-790, Expendable/Durable Items (except medical, Class V repair parts, and heraldic items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

Explanation of Columns in the Expendable/Durable Items List

Column (1), Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the item.

Column (2), Level. This column identifies the lowest level of maintenance that requires the item.

Column (3), National Stock Number. This is the national stock number assigned to the item which you can use to requisition it.

Column (4), Item Name, Description, Commercial and Government Entity Code (CAGEC), and Part Number. This provides the other information you need to identify the item.

Column (5), Unit of Measure (U/M). This code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

EXPENDABLE AND DURABLE ITEMS LIST

Table 1. Expendable and Durable Items List.

(1) Item Number	(2) Level	(3) National Stock Number	(4) Item Name, Description, Commercial and Government Entity Code (CAGEC), and Part Number	(5) Unit of Measure (U/M)
1	C	5120-01-464-6340	Snow Rake (81337) SNORK -618	ea
2	C	9950-00-537-8954	Tags, Marking (81349) MIL-T-12755	bd
3	C	5120-00-221-1882	Tape Measure (81348) GGG-T-106	ea
4	C	7920-00-205-1711	Wiping Rags (81348) DDD-R-30	be
5	O	5120-00-242-0762	Wrecking Bar (81348) GGG-B-101	ea

GLOSSARY

Term	Definition
Becket Lacing	A lacing procedure used to join the fabric panels together. The procedure requires aligning the sewn in grommets of one fabric panel with the sewn-in becket laces of another panel. Each lace is pulled through the corresponding grommet as well as the preceding lace loop. Becket lacing is a strong but flexible method of attachment that helps mitigate the effects of wind and load stress on the fabric panels.
Door Header	The door headers are used to suspend the vehicle access doors and incorporate a curtain mechanism.
Cable Header	These are used to provide lateral rigidity to the frame upper arch assembly.
Side Assembly	The side assemblies enhance structural stability of the frame arch assemblies.
Purlin	A horizontal member of the frame that connects the arch frame assemblies together and provides structural stability.

ALPHABETICAL INDEX

A

B

C

D

E

F

ALPHABETICAL INDEX – continued

ALPHABETICAL INDEX – continued

O

P

R

ALPHABETICAL INDEX - continued

ALPHABETICAL INDEX – continued

W

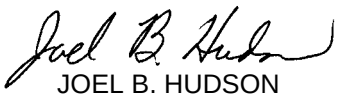
X, Y, Z

No listing

By Order of the Secretary of the Army:

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

Official:



JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
0405702

Distribution:
To be distributed in accordance with initial distribution number (IDN) 256530 requirements for TM 10-5410-284-13&P.

These are the instructions for sending an electronic 2028

The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17, and 27.

From: "Whomever" <whomever@avma27.army.mil>
To: amssbriml@natick.army.mil

Subject: DA Form 2028

1. ***From:*** Joe Smith
2. *Unit:* home
3. ***Address:*** 4300 Park
4. ***City:*** Hometown
5. ***St:*** MO
6. ***Zip:*** 77777
7. ***Date Sent:*** 19−OCT−93
8. ***Pub no:*** 55−2840−229−23
9. ***Pub Title:*** TM
10. ***Publication Date:*** 04−JUL−85
11. *Change Number:* 7
12. *Submitter Rank:* MSG
13. ***Submitter FName:*** Joe
14. *Submitter MName:* T
15. ***Submitter LName:*** Smith
16. ***Submitter Phone:*** 123−123−1234
17. ***Problem:*** **1**
18. *Page:* 2
19. *Paragraph:* 3
20. *Line:* 4
21. *NSN:* 5
22. *Reference:* 6
23. *Figure:* 7
24. *Table:* 8
25. *Item:* 9
26. *Total:* 123
27. ***Text:***

This is the text for the problem below line 27.

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is ODISC4.	Use Part II *(reverse)* for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE *21 October 2003*

TO: *(Forward to proponent of publication or form) (Include ZIP Code)* COMMANDER U.S. ARMY TANK-AUTOMOTIVE AND ARMAMENT COMMAND ATTN: AMSTA LC-CECT KANSAS STREET NATICK, MA 01760-5052	FROM: *(Activity and location) (Include ZIP Code)* *PFC Jane Doe* *CO A 3rd Engineer BR* *Ft. Leonardwood, MO 63108*

PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS

PUBLICATION/FORM NUMBER	DATE	TITLE
TM 10-1670-296-23&P	30 October 2002	Unit Manual for Ancillary Equipment for Low Velocity Air Drop Systems

ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON ***(Provide exact wording of recommended changes, if possible).***
	0036 00-2				*1*	*In table 1, Sewing Machine Code Symbols, the second sewing machine code symbol should be MD ZZ not MD 22.* *Change the manual to show Sewing Machine, Industrial: Zig-Zag; 308 stitch; medium-duty; NSN 3530-01-181-1421 as a MD ZZ code symbol.*

**Reference to line numbers within the paragraph or subparagraph.*

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
Jane Doe, PFC	508-233-4141	Jane Doe *Jane Doe*

DA FORM 2028, FEB 74 REPLACES DA FORM 2028, 1 DEC 68, WHICH WILL BE USED. USAPPC V3.00

TO: (*Forward direct to addressee listed in publication)*	FROM: (*Activity and location) (Include ZIP Code)*	DATE
COMMANDER U.S. ARMY TANK-AUTOMOTIVE AND ARMAMENT COMMAND ATTN: AMSTA LC-CECT KANSAS STREET NATICK, MA 01760-5052	*PFC Jane Doe* *CO A 3rd Engineer BR* *Ft. Leonardwood, MO 63108*	*21 October 2003*

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

PUBLICATION NUMBER	DATE	TITLE
TM 10-1670-296-23&P	30 October 2002	Unit Manual for Ancillary Equipment for Low Velocity Air Drop Systems

PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION
0066 00-1					*4*			*Callout 16 in figure 4 is pointed to a D-Ring. In the Repair Parts List key for figure 4, item 16 is called a Snap Hook. Please correct one or the other.*

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

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

UASPPC V3.00

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TO: *(Forward to proponent of publication or form) (Include ZIP Code)* Commander, U.S. Army Tank-automotive and Armament Command ATTN: AMSTA-LC-CECT Kansas Street, Natick, MA 01760-5052	FROM: *(Activity and location) (Include ZIP Code)*	

PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS

PUBLICATION/FORM NUMBER	DATE	TITLE
TM 10-5410-284-13&P	31 March 2004	Operator's, Unit and Direct Support Maintenance Manual including Repair Parts and Special Tools List for the Lightweight Maintenance Enclosure (LME)

ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON *(Provide exact wording of recommended changes, if possible).*

**Reference to line numbers within the paragraph or subparagraph.*

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

TO: (*Forward direct to addressee listed in publication)*	FROM: (*Activity and location) (Include ZIP Code)*	DATE

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

PUBLICATION NUMBER TM 10-5410-284-13&P	DATE 31 March 2004	TITLE Operator's, Unit and Direct Support Maintenance Manual including Repair Parts and Special Tools List for the Lightweight Maintenance Enclosure (LME)

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

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

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 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 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*
inches	centimeters	2.540
feet	meters	.305
yards	meters	.914
miles	kilometers	1.609
square inches	square centimeters	6.451
square feet	square meters	.093
square yards	square meters	.836
square miles	square kilometers	2.590
acres	square hectometers	.405
cubic feet	cubic meters	.028
cubic yards	cubic meters	.765
fluid ounces	milliliters	29,573
pints	liters	.473
quarts	liters	.946
gallons	liters	3.785
ounces	grams	28.349
pounds	kilograms	.454
short tons	metric tons	.907
pound-feet	newton-meters	1.356
pound-inches	newton-meters	.11296

To change	*To*	*Multiply by*
ounce-inches	newton-meters	.007062
centimeters	inches	.394
meters	feet	3.280
meters	yards	1.094
kilometers	miles	.621
square centimeters	square inches	.155
square meters	square feet	10.764
square meters	square yards	1.196
square kilometers	square miles	.386
square hectometers	acres	2.471
cubic meters	cubic feet	35.315
cubic meters	cubic yards	1.308
milliliters	fluid ounces	.034
liters	pints	2.113
liters	quarts	1.057
liters	gallons	.264
grams	ounces	.035
kilograms	pounds	2.205
metric tons	short tons	1.102

Temperature (Exact)

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

PIN: 077464-000