

**TECHNICAL MANUAL**

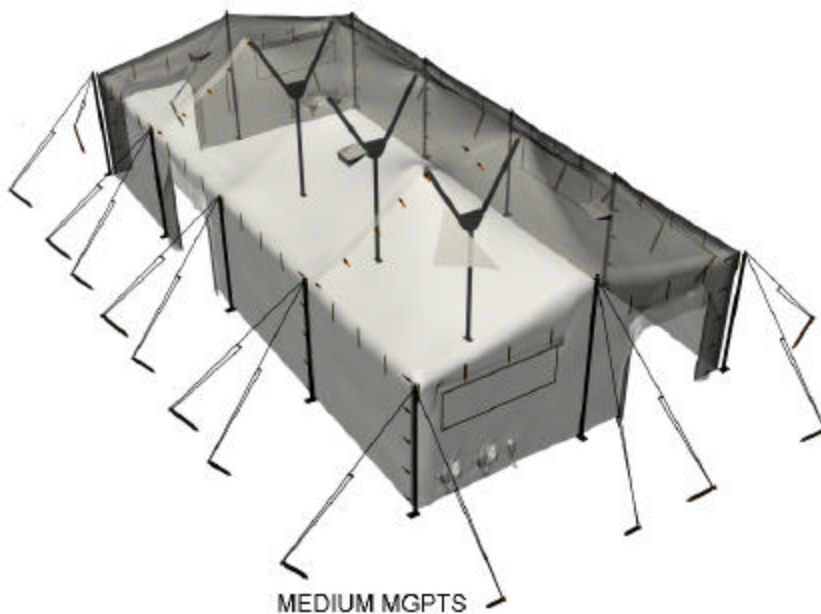
**OPERATOR'S AND UNIT MAINTENANCE MANUAL,  
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST  
FOR**

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)**

NSN 8340-01-456-3633 (SMALL)

NSN 8340-01-456-3628 (MEDIUM)

NSN 8340-01-456-3674 (LARGE)



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**21 JUNE 2000**

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TM 10-8340-240-12&P

CHANGE  
NO. 1

HEADQUARTERS, DEPARTMENT OF THE ARMY  
WASHINGTON, DC, 16 JULY 2001

TECHNICAL MANUAL

OPERATOR'S AND UNIT  
MAINTENANCE MANUAL, INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST  
FOR

MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)

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TM 10-8340-240-12&P  
C1

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- All tent guy ropes must be staked down.
- Lethal voltage is present when light set is connected to power source. Disconnect from power source before inspecting or repairing any electrical component. *Electrical shock or death* may result from failure to acknowledge this warning.
- Do not use any type of non vented heaters. The use of non vented heaters will cause the accumulation of Carbon monoxide gas. Carbon monoxide gas is not visible and has no smell. If symptoms of headache, dizziness, fatigue, nausea, or irregular breathing occur, move affected personnel to fresh air. **Failure to comply with this warning may result in personal injury or death.**
- All fuel burning heaters consume oxygen. Adequate ventilation must be maintained at all times. Keep roof vents clear of snow, ice or debris. Open doors, windows, flaps, hook and loop fastener wall closures as needed to introduce sufficient fresh air to replace oxygen consumed by heaters. If symptoms of headache, dizziness, fatigue, nausea, or irregular breathing occur, move affected personnel to fresh air. **Failure to comply with this warning may result in personal injury or death.**
- Do not run internal combustion engines inside tent without sidewalls rolled up. **Failure to comply with this warning may result in personal injury or death.**
- Mid and End Sections are heavy. Four personnel are required to lift each section. Always lift with your legs *not* with your back.
- Side pole bottoms may slip or kick out on hard or slippery surfaces. Maintain control of side pole and center poles at all times when lifting. Two persons are required to lift and position each side pole, and three persons are required to lift each center pole.
- Always begin raising the tent from downwind, lowering from upwind side. This will prevent wind from getting underneath and moving partially raised unsecured tent.
- Use care to ensure fingers, or other parts are not caught in center pole hinge point.
- Three personnel are required to put center pole in tent and raise it. Always lift with your legs, *not* your back.
- Ensure all personnel and equipment have been removed from tent before striking or lowering.
- *Do not smoke when using seam sealer or adhesive. Do not use seam sealer, or adhesive around open flame.* Seam sealer is flammable.
- Use seam sealer and adhesive in well ventilated areas only. Use personal protective equipment to prevent inhalation of fumes. In case of dizziness *leave area immediately.*
- Stakes at pole feet must be used to prevent excessive movement of the MGPTS in high winds. Failure to stake and tie down tent may result in personal injury or damage to equipment.

- Eliminate the possibility of tripping. Clear fabric and guy lines. Injury to personnel may result from falls.

**CAUTIONS**

- Do not twist or turn center pole arms when handling. Damage to equipment may result.
- Allow slack in electrical cables. Strain on cable can damage equipment.
- Avoid damage to fabric and guy lines. Do not stand on fabric or guy lines. Material may rip or lacerate.

INSERT LATEST UPDATED PAGES/WORK PACKAGES, DESTROY SUPERSEDED DATA

**LIST OF EFFECTIVE PAGES/WORK PACKAGES**

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

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

Original .. 0 .. 21 June 00

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TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 12 AND TOTAL NUMBER OF WORK PACKAGES IS 35 CONSISTING OF THE FOLLOWING:

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HEADQUARTERS  
DEPARTMENT OF THE ARMY  
Washington, D.C., 21 JUNE 2000

**TECHNICAL MANUAL**

**OPERATOR'S AND UNIT MAINTENANCE MANUAL,  
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST  
FOR**

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)**

**NSN 8340-01-456-3633 (SMALL)**

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**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 Soldier and Biological Chemical Command, ATTN: AMSSB-RIM-EC(N), Kansas Street, Natick, MA 01760-5052. You may also send in your recommended changes via electronic mail directly to : <amsscsr@natick-amed02.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.

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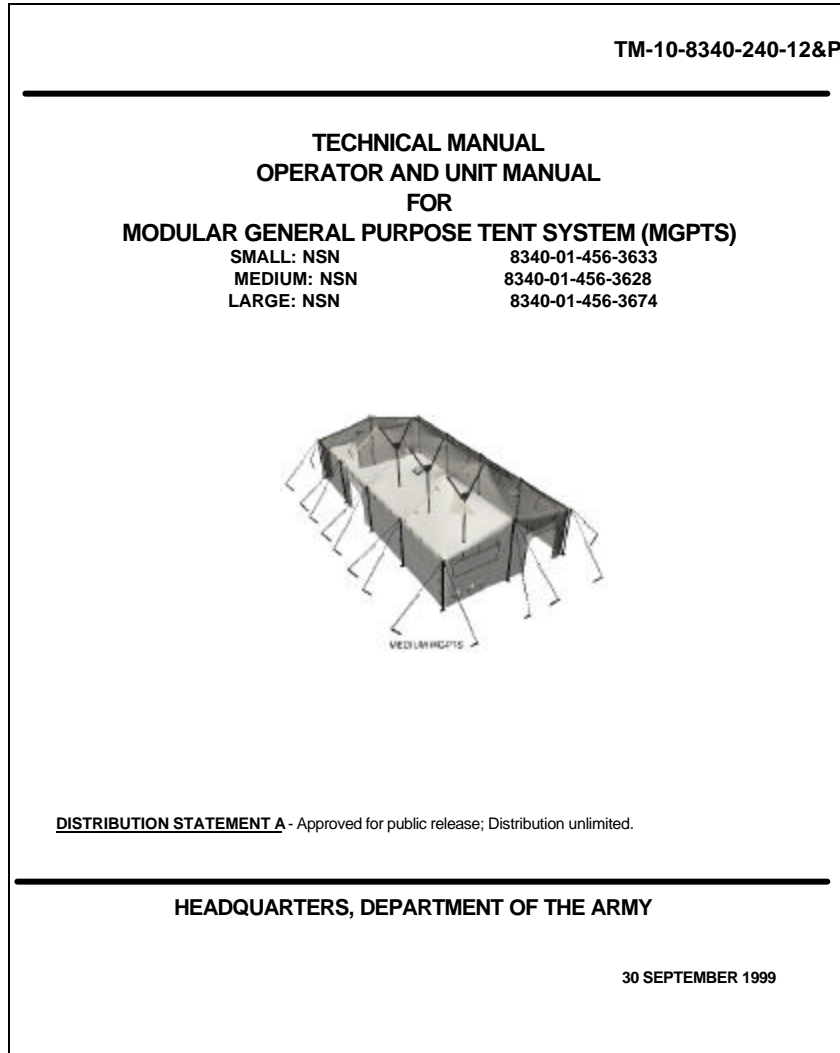
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## HOW TO USE THIS MANUAL

This Operator's and Unit Manual for Modular General Purpose Tent System (MGPTS) contains general information, operating instructions, and operator Preventive Maintenance Checks and Services (PMCS) for the MGPTS. Use the front cover index to quickly find the sections of the manual shown on the cover.



The manual is divided into chapters, sections and paragraphs that are numbered in sequence. Pages, paragraphs and tables are numbered by chapter. For example, page 3 of chapter 2 is marked 2-3, the second table of chapter 1 is labeled Table 1-2. To quickly find specific information, use the Table of Contents on pages iv and v. The Table of Contents lists paragraph and page numbers by chapter and section. For example, the front cover index tells you that Chapter 1, General Information, begins on page 1-1. The Table of Contents on pages v and vi tells you the exact page where each section of each chapter is located. Detailed Tables of Contents have been placed at the beginning of each chapter. A comprehensive alphabetical index starts on page Index-1 at the end of the manual.

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**CHAPTER 1  
GENERAL INFORMATION**

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)**  
**CHAPTER 1 INDEX**

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
GENERAL INFORMATION**

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0001 00

**SCOPE**

This manual contains operator and user's instructions/operation and care/maintenance for the Modular General Purpose Tent System (MGPTS). The Manual covers site preparation, erection, care/maintenance, striking, cleaning, repair and storage of the MGPTS.

The MGPTS was designed to provide protection for personnel and equipment from debilitating effects of continuous exposure in climatic categories: hot, basic, cold, and severe cold. It can also be utilized for medical units, troop billeting, command and control, humanitarian/disaster relief, storage applications, and limited organizational maintenance functions.

This system will replace the current General Purpose (GP) Tents, which require excessive time to erect and strike, lack commonality of parts, and cannot be complexed together with other tents in the inventory.

**MAINTENANCE FORMS AND RECORDS**

Department of Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS).

**REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRs)**

If your MGPTS needs improvement, let us know. You, the user, are the only one who can tell us what you do not like about your equipment. Let us know why you do not like the design or performance. Put it on SF 368 (Product Quality Deficiency Report). 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 Soldier and Biological Chemical Command, ATTN: AMSSB-RIM-EC(N), Kansas Street, Natick, MA 01760-5052. You may also send in your recommended changes via electronic mail directly to : <amsscsr@natick-amed02.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.

**CORROSION PREVENTION AND CONTROL (CPC)**

Corrosion Prevention and Control (CPC) of Army material is always a concern. MGPTS corrosion problems must be reported. If reported, the problems can be corrected. This helps make better tents.

Corrosion is often associated with rusting of metals. It can also include rotting of other materials, such as rubber and plastic. Cracking, softening, swelling of rubber and plastic may be a corrosion problem.

If a corrosion problem is found, it can be reported using a Standard Form 368, Quality Deficiency Report. Use of 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 the address specified in DA PAM 738-750.

**DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE**

Destruction of Army material to prevent enemy use shall be in accordance with TM 750-244-3, Procedure for Destruction of Army Material to Prevent Enemy Use.

**PREPARATION FOR STORAGE OR SHIPMENT**

Refer to WP 0006 00 to prepare the MGPTS for storage and shipment.

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
GENERAL INFORMATION**


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0001 00

**WARRANTY INFORMATION**

Warranty. A Product Registration card with identification numbers is packed with each tent. The Registration card is packaged along with set-up instructions in a clearly identifiable envelope inside the shipping container. This envelope will instruct the user how to send in the Product Registration card to Eureka! Tent when the tent is first deployed. The three-year warranty will begin on the date the Registration is received at Eureka! Tent. No warranty claims will be allowed against a product where a Product Registration card has not been received.

Limited Warranty. Eureka! Tent warrants the Modular General Purpose Tent Systems are free from major defects in materials or workmanship and will meet performance specifications as listed in sections 3.3 - 3.6.6 in solicitation number DAAK60-97-R-9622 for a period of three years after first deployment. If defects are found, call our Customer Service Center at 1-800-847-1460 for a return authorization. If, after inspection, we find that the product was defective in material or workmanship, we shall, at our option, either repair or replace it without charge. We are not responsible for normal wear and tear or for damage caused by accidents, misuse, alterations, or improper installations. Additionally, although we manufacture our products with quality fabrics, we are not responsible for the negative effects of climate, pollution or acts of God beyond those outlined in sections 3.3 - 3.6.6 in solicitation number DAAK60-97-R-9622. Because tents are temporary structures, it is necessary that each unit be installed and maintained according to the manufacturer's instructions.

There are no other express warranties beyond the terms of this limited warranty. In no event shall Eureka! Tent be liable for incidental or consequential damages.

**NOMENCLATURE CROSS-REFERENCE LIST**

| Common Name | Official Name                       |
|-------------|-------------------------------------|
| Tent        | Modular General Purpose Tent System |
| Vestibule   | Vestibule                           |
| Lights      | Light Set, Fluorescent, Portable    |

**ABBREVIATIONS LIST**

|        |  |
|--------|--|
| BII    | Basic Issue Item                             |
| COEI   | Component of End Item                        |
| CPC    | Corrosion Prevention Control                 |
| DS2    | Decontamination Solution (Ready to Use)      |
| ECU    | Environmental Control Unit                   |
| EIR    | Equipment Improvement Recommendation         |
| GP     | General Purpose                              |
| ISO    | International Standards Organization         |
| MGPTS  | Modular General Purpose Tent System          |
| MTOE   | Modified Table of Organization and Equipment |
| PMCS   | Preventative Maintenance Checks and Services |
| RPSTL  | Repair Parts and Special Tools List          |
| STB    | Supertropical Bleach—Decontamination Agent   |
| TAMMS  | The Army Maintenance Management System       |
| TEMPER | Tent, Extendable, Modular, Personnel         |
| TOE    | Table of Organization and Equipment          |
| U/M    | Unit of Measure                              |
| UOC    | Useable On Code                              |

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
GENERAL INFORMATION**

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**0001 00**

**SAFETY, CARE AND HANDLING**

Always observe Warnings, Cautions, and Notes in the manual. They appear before appropriate procedures. Be sure you read and understand each of the Warnings, Cautions, and Notes. Failure to observe them may cause damage to yourself, others, or equipment.

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
EQUIPMENT DESCRIPTION**

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0002 00

**EQUIPMENT CHARACTERISTICS, CAPABILITIES AND FEATURES**

The MGPTS is a pole supported modular structure that can be quickly erected under normal conditions. The MGPTS is issued in three sizes: Small, Medium, and Large. The MGPTS can also be complexed in various combinations of length and width.

a. Characteristics.

- Modular
- Lightweight structure
- Pole supported

b. Capabilities and Features.

- Provides environmental protection for personnel, command and control, support, or maintenance
- Flexible configuration
- Can be complexed to other types of shelters
- Accommodates external environmental control unit
- Setup:     Small                             four personnel in 27 minutes  
              Medium                            four personnel in 36 minutes  
              Large                              six personnel in 67 minutes

**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS**

The Major components of the MGPTS are identified in Figure 002 00-1. The components are described in paragraphs (a) through (e).

a. **Side Poles** (1) are seven foot long fixed length aluminum poles. At the top of the side poles, there is a cap assembly. The base of the poles have a base plate with a stake tube. Guy ropes are attached to the cap assembly.

b. **End Poles** (2) are seven foot long aluminum poles extendable to nine foot. The End Poles are extended by first pulling out a locking pin on the upper leg assembly. Then pulling the upper leg assembly to the upper hole and pushing in the pin. At the top of the end poles there is a cap assembly, and the base of the poles have a stake tube. Guy ropes are attached to the cap assembly.

c. **Center Poles** (3) are aluminum poles that resemble a Y. The upper arms of the Y fold down for storage and transport. The base of the Center Pole also has a stake tube.

d. **End Sections** (4) are made of polyester fabric that is white inside and green on the outside. The roof, side and end walls are part of the End Section. Attachment of the End Section to the

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
EQUIPMENT DESCRIPTION**

---

0002 00

Mid Section is made using grommets and becket lacing. Two flaps are buckled over the becket lacing. This makes a weather proof, light secure joint. Every End Section has a door, window, ECU and electrical feed throughs.

e. **Mid Sections** (5) are made of polyester fabric that is white inside and green on the outside. The roof and sidewalls are part of the Mid Section. Attachments to other sections are made using grommets and becket lacing. Two flaps are buckled over the becket lacing. This creates a weather proof, light secure joint. Every Mid Section has a door and a window.

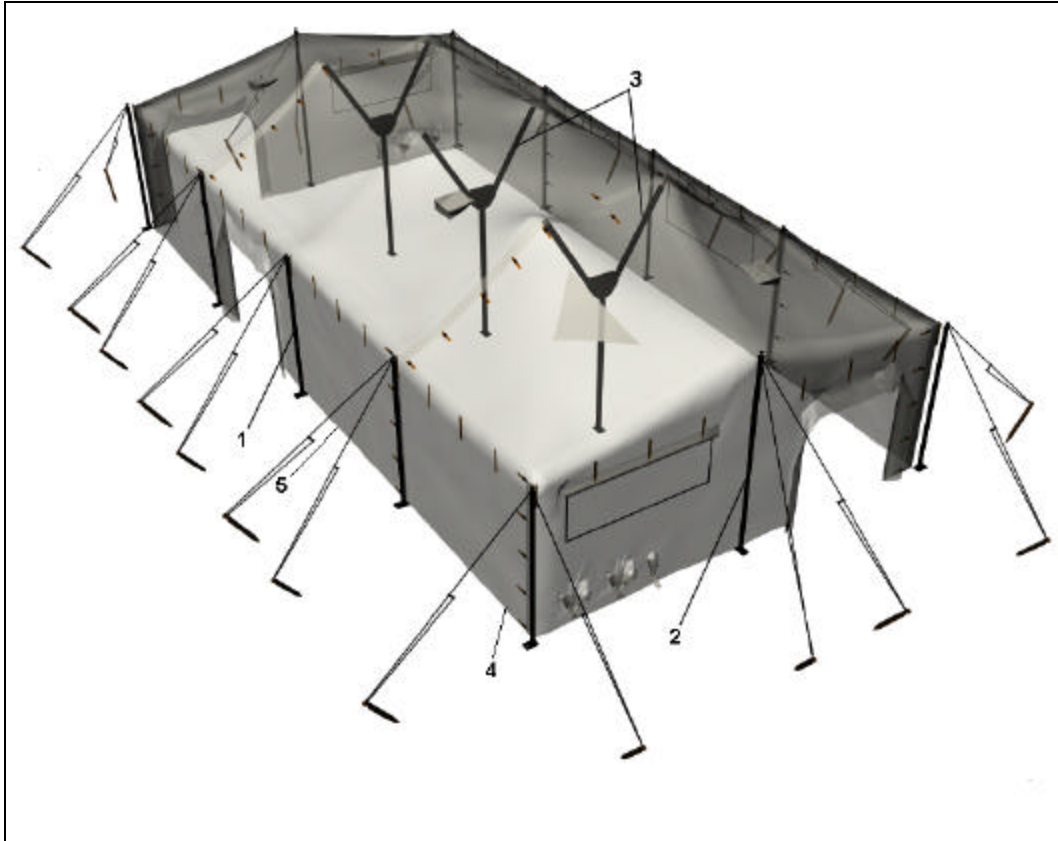
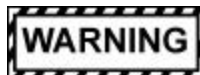
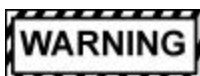


Figure 0002 00-1 Medium MGPTS



Do not use any type of non vented heaters. The use of non-vented heaters will cause the accumulation of Carbon monoxide gas. Carbon monoxide gas is not visible and it has no smell. If symptoms of headache, dizziness, fatigue, nausea, or irregular breathing occur, move affected personnel to fresh air. **Failure to comply with this warning may result in personal injury or death.**

## EQUIPMENT DESCRIPTION



All fuel-burning heaters consume oxygen. Adequate ventilation must be maintained at all times. Keep roof vents clear of snow, ice or debris. Open doors, windows, flaps, hook and loop fastener wall closures as needed to introduce sufficient fresh air to replace oxygen consumed by heaters. If symptoms of headache, dizziness, fatigue, nausea, or irregular breathing occur, move affected personnel to fresh air. **Failure to comply with this warning may result in personal injury or death.**

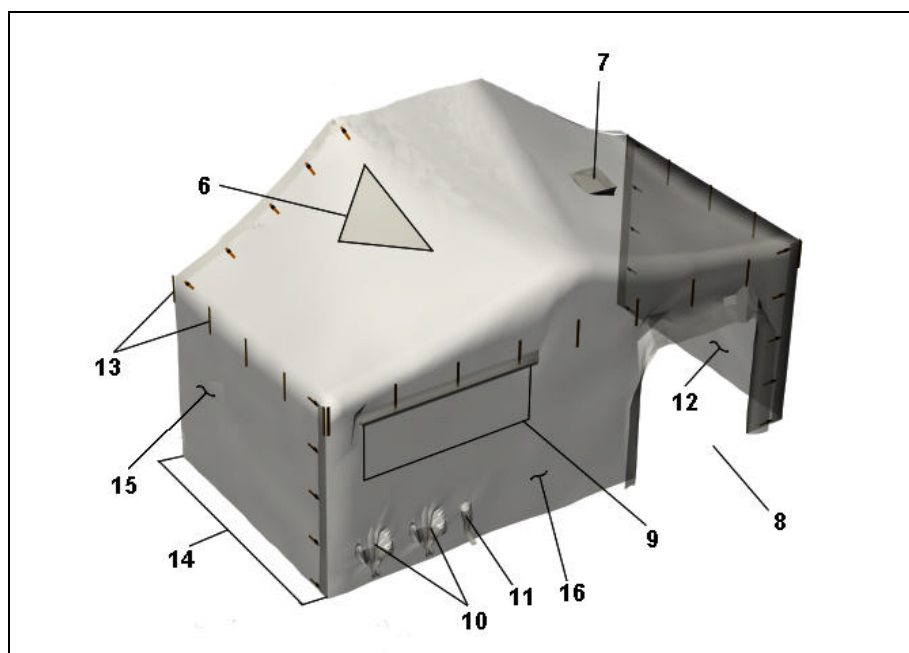


Figure 0002 00-2 End Section

The Major components of the End Section are identified in Figure 0002 00-2 and described in paragraphs (f) through (n).

- f. **Stovepipe Opening** (6) allows passage for a four inch stovepipe. It has a protective cover that is secured with a hook and loop fastener.
- g. **Vent** (7) is a passive vent type that involves porous foam, which is always open.
- h. **Door** (8) is a light secure type with integrated vestibule adapter. The vestibule adapter is compatible with TEMPER vestibule.

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)**

**0002 00**

**EQUIPMENT DESCRIPTION**

- i. **Window** (9) consists of a fixed screen section, clear plastic and fabric panels secured with hook and loop fasteners. The clear panel allows light in while providing weather security. The fabric panel covers the screen and plastic panels for weather and light security. The fabric and plastic panels can be rolled up and secured.
- j. **ECU Feed Throughs** (10) are two environmental control feed-throughs provided near ground level. Heating or ventilation ducts can enter through these. The ECU feed-throughs can be closed using tie straps. This makes them weather proof and light secure.
- k. **Electrical Feed Through** (11) is provided near the ground level for cables to enter the tent. The feed through can be closed using tie strap. This makes it weather proof and light secure.
- l. **Screen Walls** (12) allow ventilation while keeping out insects. They can be rolled up to allow access.
- m. **Tie Tapes** (13) are provided to secure rolled up fabric, screen, or clear plastic panels.
- n. **Mudskirts** (14) are fabric sections attached to the bottom edge of sidewalls (15) and End Sections (16). The mudskirts help keep moisture, debris, insect, and small animals out of tent. Sandbags may be placed on mudskirt to secure it.

**DIFFERENCES BETWEEN MODELS**

The differences between the three MGPTS models are the quantity of Mid Sections, Side Poles, and Center Poles.

| Table 0002 00-1 Quantity of End and Mid Sections, Side, End and Center Pole Assemblies |  |       |        |       |
|--|--|-------|--------|-------|
| MODEL:   |  | Small | Medium | Large |
| End Section Qty.   |  | 2     | 2      | 2     |
| Mid Section Qty.   |  | 0     | 1      | 2     |
| Side Pole Qty.   |  | 6     | 10     | 14    |
| End Pole Qty.  |  | 2     | 2      | 2     |
| Center Pole Qty.   |  | 1     | 3      | 5     |



**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)**

**0002 00**

**EQUIPMENT DESCRIPTION**

**EQUIPMENT DATA**

**Table 0002 00-2 Component Weights**

| <b>COMPONENT WEIGHTS:</b> |        |           |              |         |             |           |              |
|---------------------------|--------|-----------|--------------|---------|-------------|-----------|--------------|
| Items                     | Weight | Small Qty | Small Weight | Med Qty | Med. Weight | Large Qty | Large Weight |
| End Section               | 150    | 2         | 300          | 2       | 300         | 2         | 300          |
| Mid Section               | 190    | 0         | 0            | 1       | 190         | 2         | 380          |
| Center Pole               | 38     | 1         | 38           | 3       | 114         | 5         | 190          |
| Side Pole                 | 8      | 6         | 48           | 10      | 80          | 14        | 112          |
| End Pole                  | 15     | 2         | 30           | 2       | 30          | 2         | 30           |
| Stakes and Bags           |        |           | 54           |         | 81          |           | 95           |
| <b>Actual Weight</b>      |        |           | <b>470</b>   |         | <b>795</b>  |           | <b>1107</b>  |

**Table 0002 00-3 Environmental Capabilities**

| <b>ENVIRONMENTAL CAPABILITIES:</b> |                                     |
|------------------------------------|-------------------------------------|
| Setup Temp.                        | -60 to 120 F                        |
| Setup Wind                         | 25 mph max                          |
| Operate Temp.                      | -60 to 120 F                        |
| Operate Wind                       | 55 mph steady state<br>65 mph gusts |

**Table 0002 00-4 Packaged Volumes**

| <b>COMPONENT PACKAGED VOLUME:</b> |           |
|-----------------------------------|-----------|
| End Section Bag                   | 7.59 ft3  |
| Mid Section Bag                   | 15.04 ft3 |
| End Poles Bag                     | 5.43 ft3  |
| Mid Poles Bag                     | 3.48 ft3  |

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**CHAPTER 2**  
**OPERATING INSTRUCTIONS**

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)**  
**CHAPTER 2 INDEX**

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**NOTE**

These instructions are based on the medium MGPTS. For other tent sizes, the number of Mid Sections and poles will differ. Make modifications as required.

**SITE SELECTION**

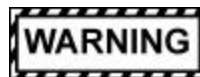
Select an area to erect the tent. Ensure the area will be large enough for the tent and guy ropes that will be erected (see Table 0004 00-1). The area should be clear of trees, rocks and debris. Choose a relatively flat area, the ground should not vary by more than 6 inches. A trench should be dug around the perimeter of the tent about 2 feet away from the edge. A drainage ditch should also be dug for water to exit the perimeter trench.

**Table 0004 00-1 Area Setup Requirements**

| AREA SETUP REQUIREMENTS: |        |       |        |
|--------------------------|--------|-------|--------|
| Tent                     | Length | Width | Height |
| Small                    | 34 ft  | 34 ft | 12 ft  |
| Medium                   | 52 ft  | 34 ft | 12 ft  |
| Large                    | 70 ft  | 34 ft | 12 ft  |

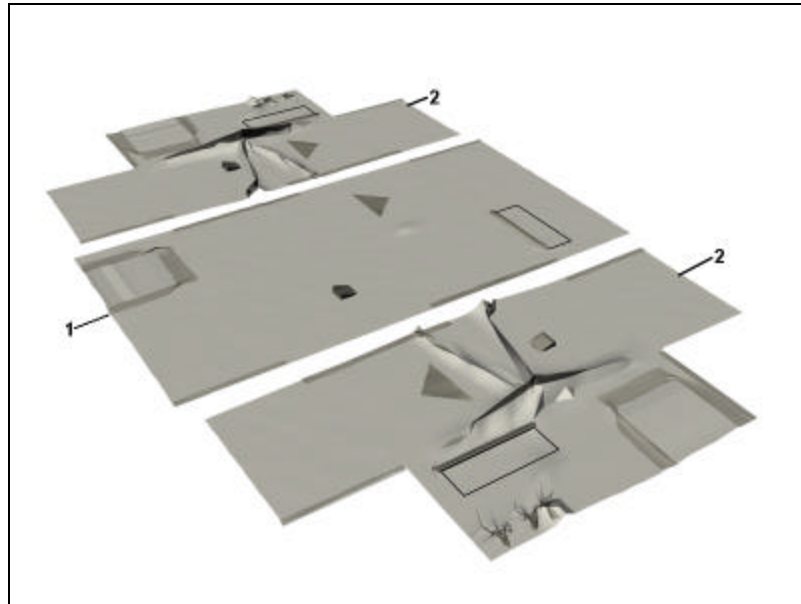
**LAYOUT FABRIC SECTIONS**

- a. Identify each Fabric Section required. For the medium MGPTS you will need two End Fabric Sections and one Mid Fabric Section.



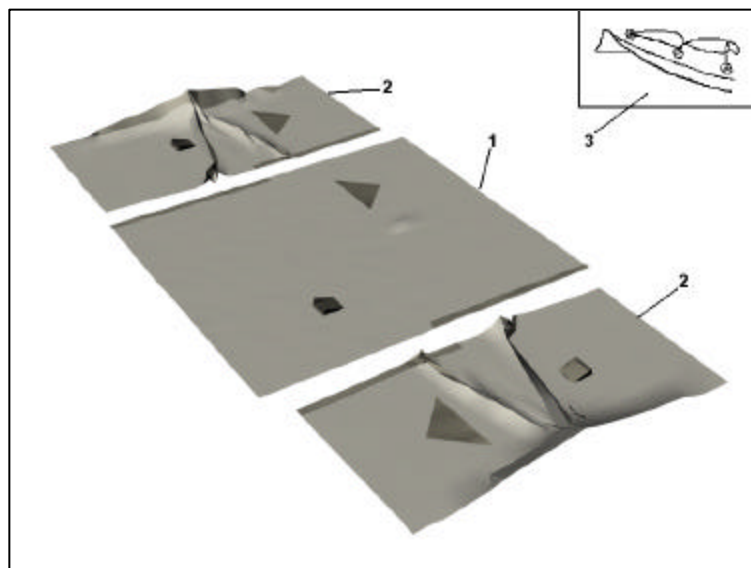
Fabric Sections are heavy. Observe lifting requirements printed on the tent and pole bags. Always lift with your legs ***not*** your back. Failure to observe this warning may result in back injury.

- b. Transport each required fabric section into area where tent will be erected.
- c. Unfold each End Section (2) and Mid Fabric Section (1) so that the inside (white side) is down and the green side is up. Place these sections in center area where tent is to be setup. (See Figure 0004 00-1).



**Figure 0004 00-1 Fabric Sections**

- d. The Mid Fabric Section (1) has lace and grommets on both ends.
- e. The End Sections (2) have lace and grommets on one end.
- f. Position End Sections (2) on either side of the Mid Section (1) so that Becket Laces (3) align. Lay tent out flat. Fold side walls and End Walls of Mid (1) and End Sections (2) under roof section so that only roof portions are exposed. This will allow easier access to the pole attachment points. (See Figure 0004 00-2).



**Figure 0004 00-2 Fabric Sections**

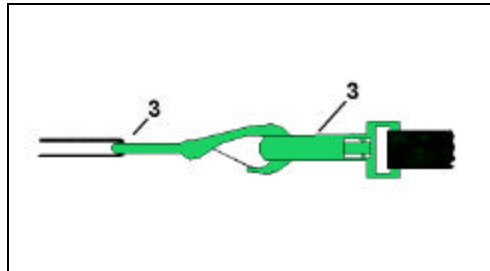
**CONNECT FABRIC SECTIONS**

Use the following procedures to connect Becket Lace between each End Section and Mid Section:

**NOTE**

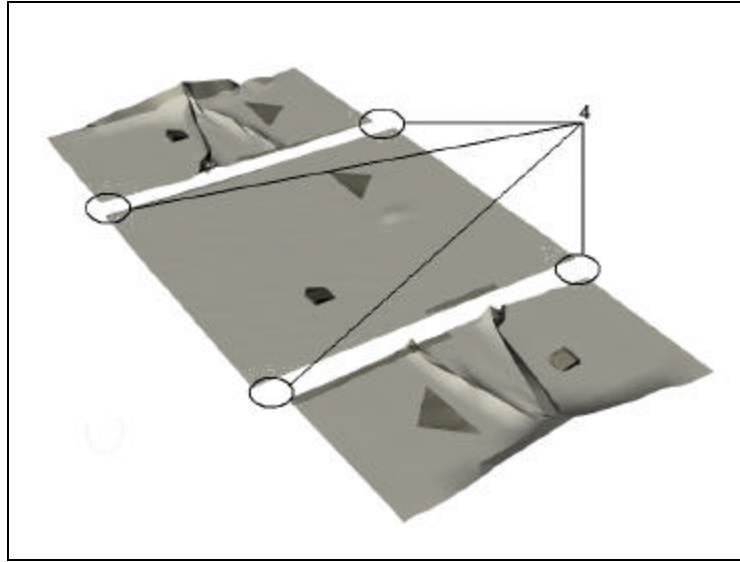
Split the four personnel into two person teams. Each team should perform steps (a) through (l) at the same time on opposite ends of the tent.

- a. Find the two large snap hooks (3) at the middle edge of End Section and Mid Section roofs on underside of tent. Connect the snap hooks (3). (See Figure 0004 00-3).



**Figure 0004 00-3 Snap Hook Connection**

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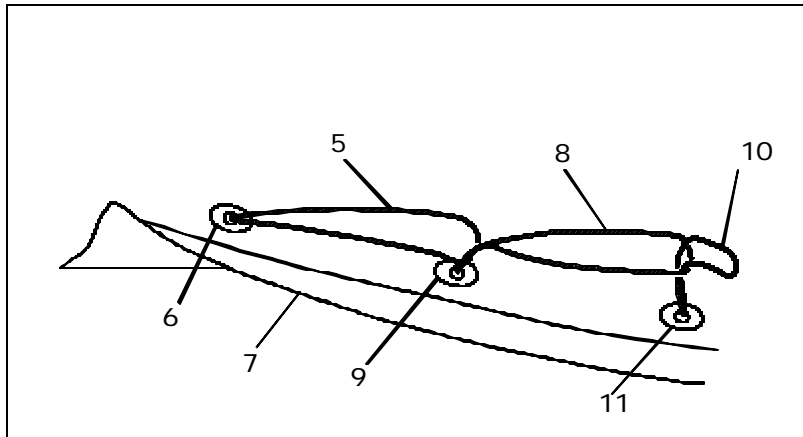
**Figure 0004 00-4 Fabric Sections**

- b. Find Becket Lace (4) at one end of roof. You may start at either end of roof. (See Figure 0004 00-4).

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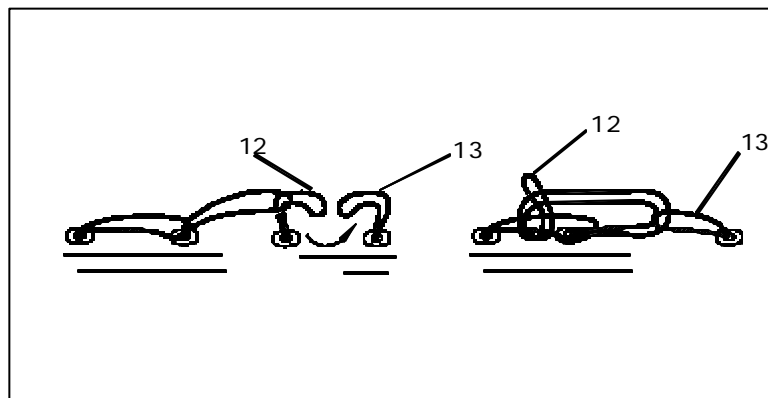


- c. Lace the Fabric Sections together by using the following instructions and figure 0004 00-5. Insert the first rope loop (5) on one roof section through the first small grommet (6) of the adjoining roof section (7). Loops always enter the white side of the fabric and exit the green side. **All loops should be pulled tight.** Insert the second loop (8) through the second grommet (9) and through the first loop (5). Insert the third loop (10) through the third grommet (11) and the second loop (8). Repeat this pattern until reaching the other side of the tent.



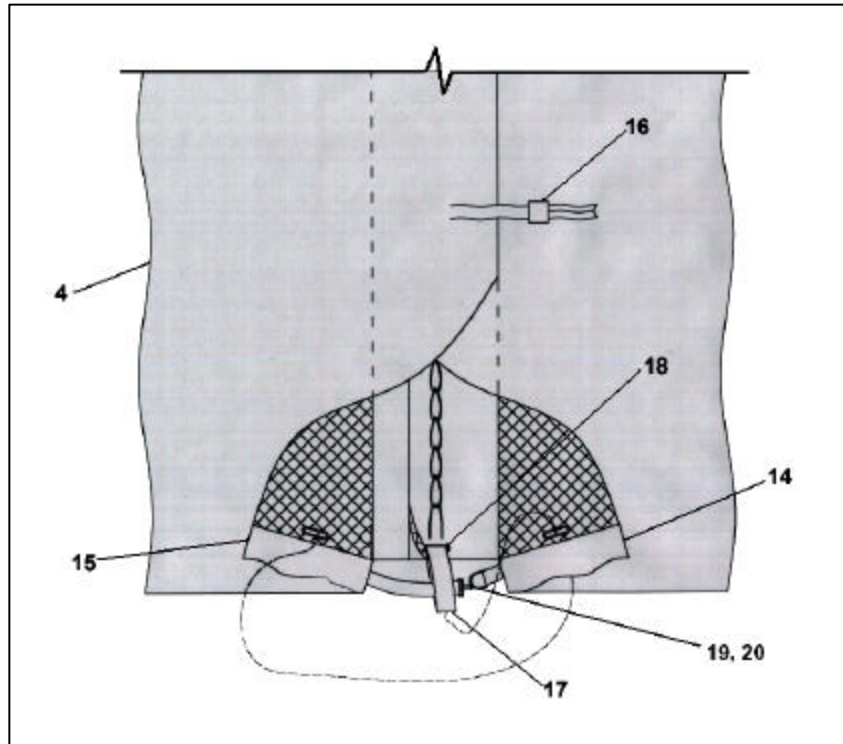
**Figure 0004 00-5 Becket Lace**

- d. At the end, tie off last Becket Lace by using the following instructions and Figure 0004 00-6. Insert the next-to-last Becket Lace (12) through loop of last Becket Lace (13). Pull the next-to-last Becket Lace (12) back towards the ridge and tie off with half-hitch knot.



**Figure 0004 00-6 End of Becket Lace**

- e. Flaps are identical. It does not matter which is on top or bottom.
- f. Fold one flap (14) over Becket Lace. (See Figure 0004 00-7).
- g. Folds other flap (15) over first flap (14) and connect buckles (16). (See Figure 0004 00-7).



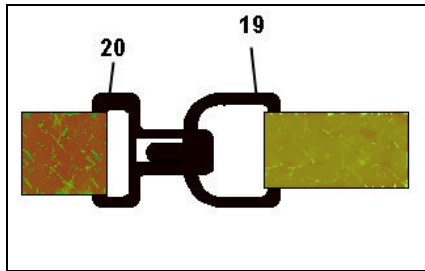
**Figure 0004 00-7 Mid Section Connection**

- h. Repeat procedures (a) through (g) for remaining End Sections to Mid Section connection.
- i. Pull 1-1/2 inch web pole loop (17) through grommet (18) at perimeter.
- j. Feed 1-1/2 inch web pole loop (17) through slots in outer flaps (14 and 15).
- k. The web pole loop (17) will pass through the slit in the rain/light flap located at intersection of all sections.
- l. Connect D-ring (19) on 3/4 inch strap at the eave to adjoining section's snap hook (20). (See Figure 0004 00-8).

**NOTE**

Make sure D-ring strap is **below**  
1-1/2 inch web pole loop.

- m. With one person at each corner of the tent, fabric should be stretched tight to remove slack.



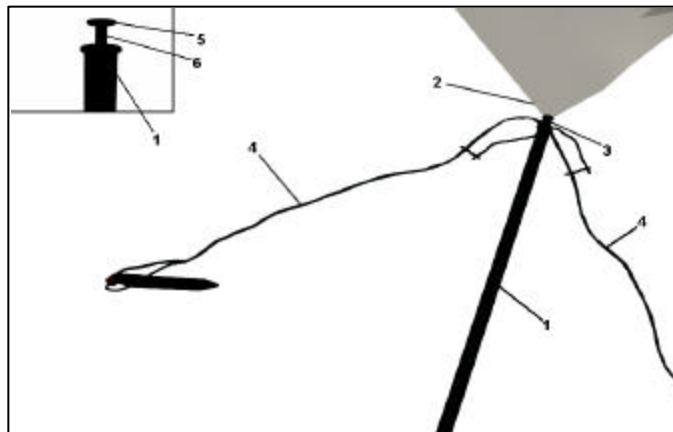
**Figure 0004 00-8 Snap Hook Connection**

**SETUP POLE SYSTEM**

**NOTE**

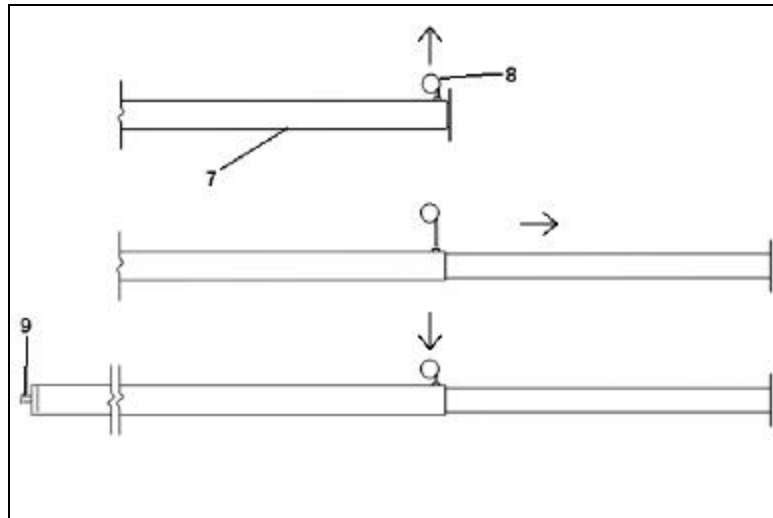
Split the four personnel into two person teams. Each team should perform steps (a) through (h) on opposite ends of the tent.

- a. Locate Side Poles (1).
- b. Make sure each Side Pole (1) has two guy ropes (4) attached to cap assembly (5).
- c. Place one Side Pole (1) at each corner of tent (2), and at each 1-1/2 inch web loop along the side eave. Place cap assembly spindle (6) through 1-1/2 inch web loop (3) at eave.



**Figure 0004 00-9 Tent Pole Attached to Tent Fabric**

- d. Find two End Poles (7). Adjust them to maximum height by pulling pin (8) out at bottom of pole. Push pin (8) back in when holes are aligned. Place cap assembly spindle (9) through 1-1/2 inch web loop at middle of each tent End Section's roof edge. Place flat side of End Pole towards tent so that guyropes slide freely through ring at top. (See Figure 0004 00-10).



**Figure 0004 00-10 Extending End Pole**

- e. Corner Poles should be aligned with fabric seam (10) in end section roof. Stakes may then be placed 6 feet out along pole and 1 foot on either side of pole. (See Figure 0004 00-11).
- f. Follow staking diagram below in Figure 0004 00-11. Drive in 36-inch Wood Stakes at all points indicated on diagram.
- g. It is important to have a stake at each of the marked points.

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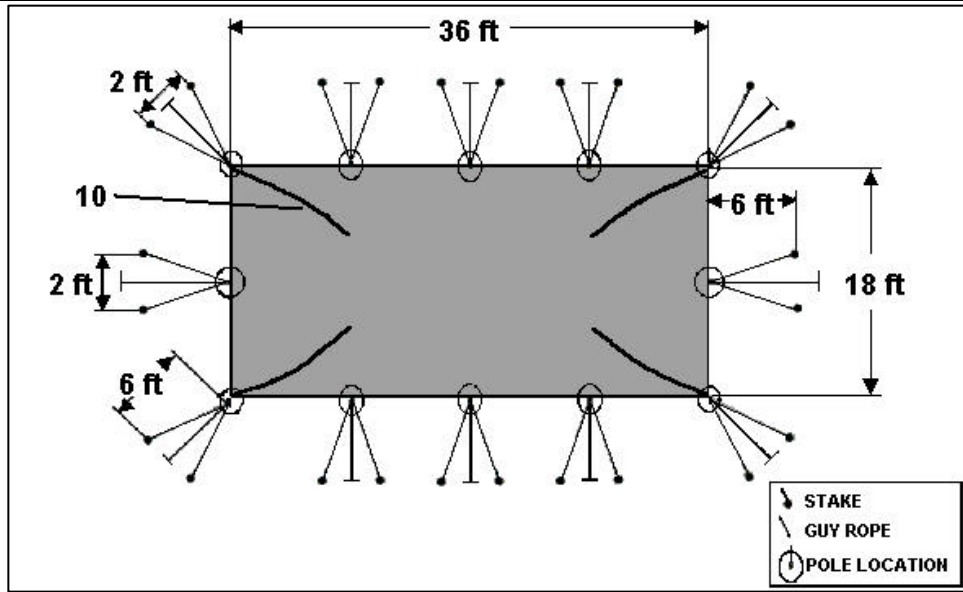


Figure 0004 00-11 Stake Diagram

**NOTE**

Align corner poles with fabric seam.

- h. Drive stakes six feet out from tent edge and angle stake slightly away from tent.
- i. Wood stakes should be driven in until only six inches extend above the ground. (See Figure 0004 00-12).

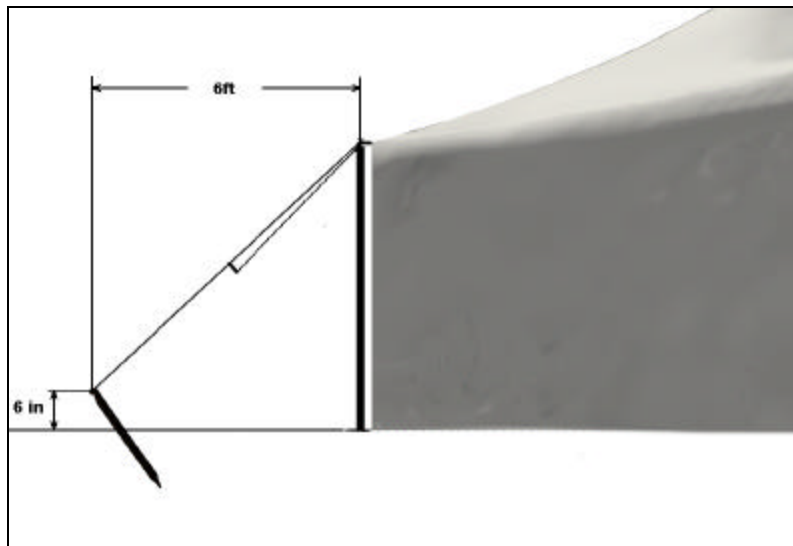
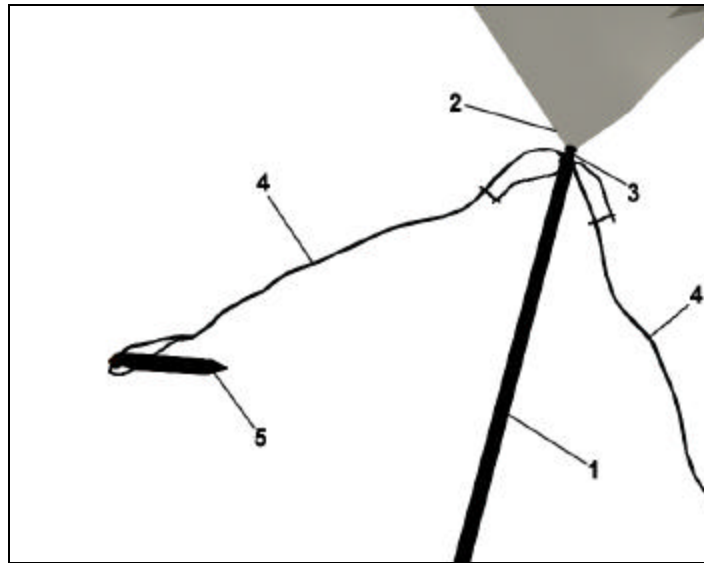


Figure 0004 00-12 Staked MGPTS

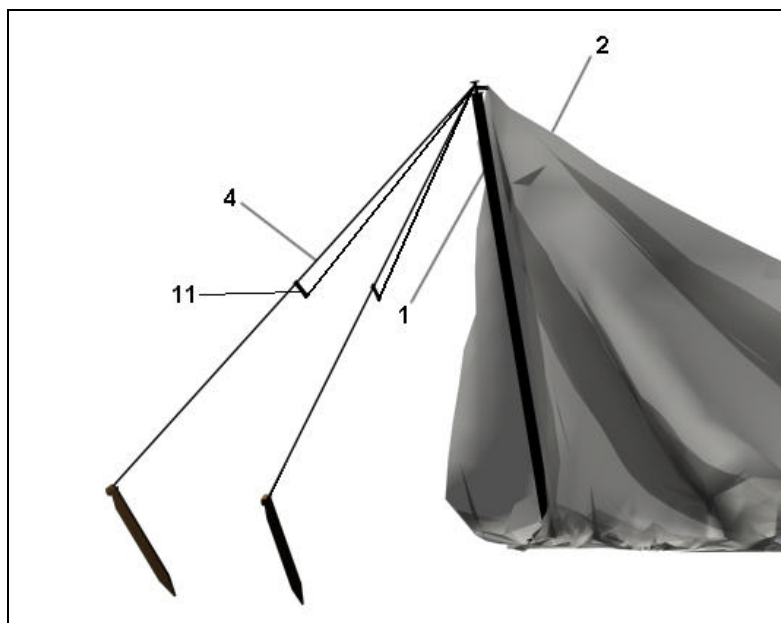
**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
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- j. Place guy ropes (4) over wood stakes (5), making sure that ropes are not twisted. Loosen rope adjustment to leave plenty of slack. This will make it easier to stand poles up. Connect guy ropes at all pole locations. (See Figure 0004 00-13).


**Figure 0004 00-13 Tent Poles**

- k. Two persons are required. Start at one corner. One person lifts corner roof fabric (2) while the second person grasps pole (1) and rotates bottom of pole under roof fabric (2) and stands pole up so that bottom of pole is angled in toward center of tent. Snug guy ropes (4), by sliding tensioner (11), to keep poles from falling. (See Figure 0004 00-14)


**Figure 0004 00-14 Tent Pole Attached to Tent Fabric**

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- l. Repeat step (k) for other three corners.

**NOTE**

Guy ropes must be snug,  
to keep poles from falling.

- m. Two persons are required. Stand Side Poles up along each side of the tent. One person lifts roof fabric (2). Other person grasps pole (1), rotates bottom of pole under roof fabric (2) and stands pole up so that bottom of pole is angled slightly in towards center of tent. Snug guy ropes (4) to keep poles from falling. (See Figure 0004 00-14).
- n. Repeat step (m) for all Side Poles.
- o. Two persons are required. Stand End Poles up along each end of the tent. One person lifts roof fabric (2). Other person grasps pole (1), rotates bottom of pole under roof fabric (2) and stands pole up so that bottom of pole is angled slightly in towards center of tent. Snug guy ropes (4) to keep poles from falling. (See Figure 0004 00-14).
- p. Repeat step (o) for all end Poles. Make sure that flat side of End Pole is toward tent, so that guy ropes slide freely.

**RAISING TENT**

- a. Roll up one 9-foot long Sidewall of tent. Use tie straps at eave to secure the rolled up section.

**WARNING**

Use care to ensure fingers, or other parts  
are not caught in center pole hinge point.

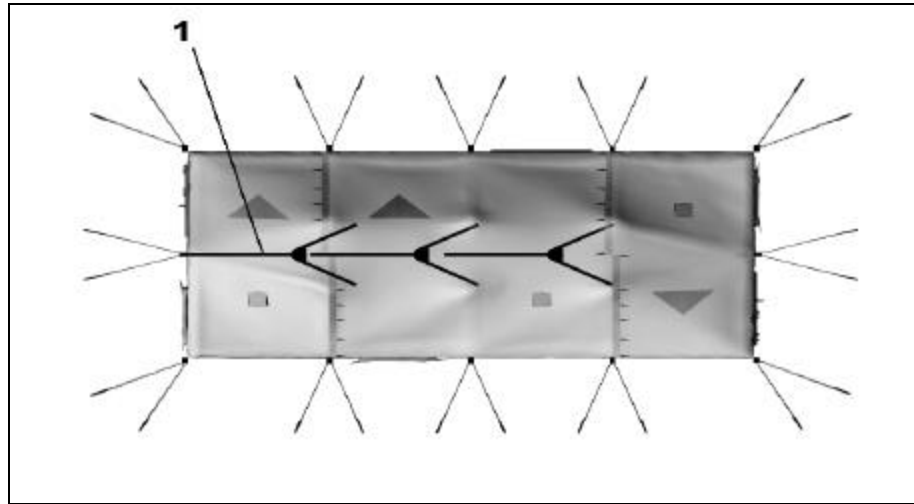
**NOTE**

If lights are authorized, install light  
assemblies before raising center poles.  
(See pg. 004 00-15).

- b. Locate Center Poles (1). Identify the peak fittings (2) (see Figure 0004 00-16) which are metal tubes attached to flat metal plates located on the inside of the roof fabric. Using three people carry each Center Pole into tent through the sidewall opening. **Do not open Y-Arms while carrying Center Pole.** Position Center Poles (1) on ground. Unfold arms and position poles under the tent (see Figure 0004 00-15). Tops of Y-Arms should be located under peak fittings (2) on bottom side of tent. (See Figure 0004 00-15).

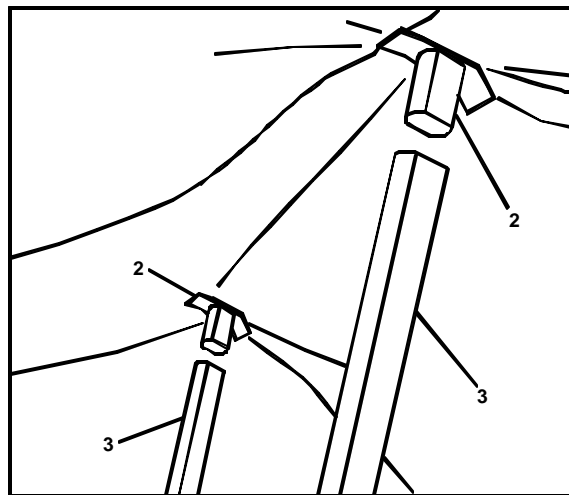
**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
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**Figure 0004 00-15 MGPTS with Center-Poles**

- c. Start with Center Pole at either end. With one person holding each Y-Arm (3) and the third person grasping the pole body, place peak fittings (2) all the way into ends of Y-Arms (3). (See Figure 0004 00-16).
- d. Once both peak fittings (2) are inserted into Y-Arms (3) (see Figure 0004 00-16), lift Center Pole (1) (see Figure 0004 00-15) to a vertical position.
- e. Repeat steps (c) and (d) for two remaining Center Poles (1). (See Figure 0004 00-15).
- f. From one end view Center Poles and make sure they are aligned.

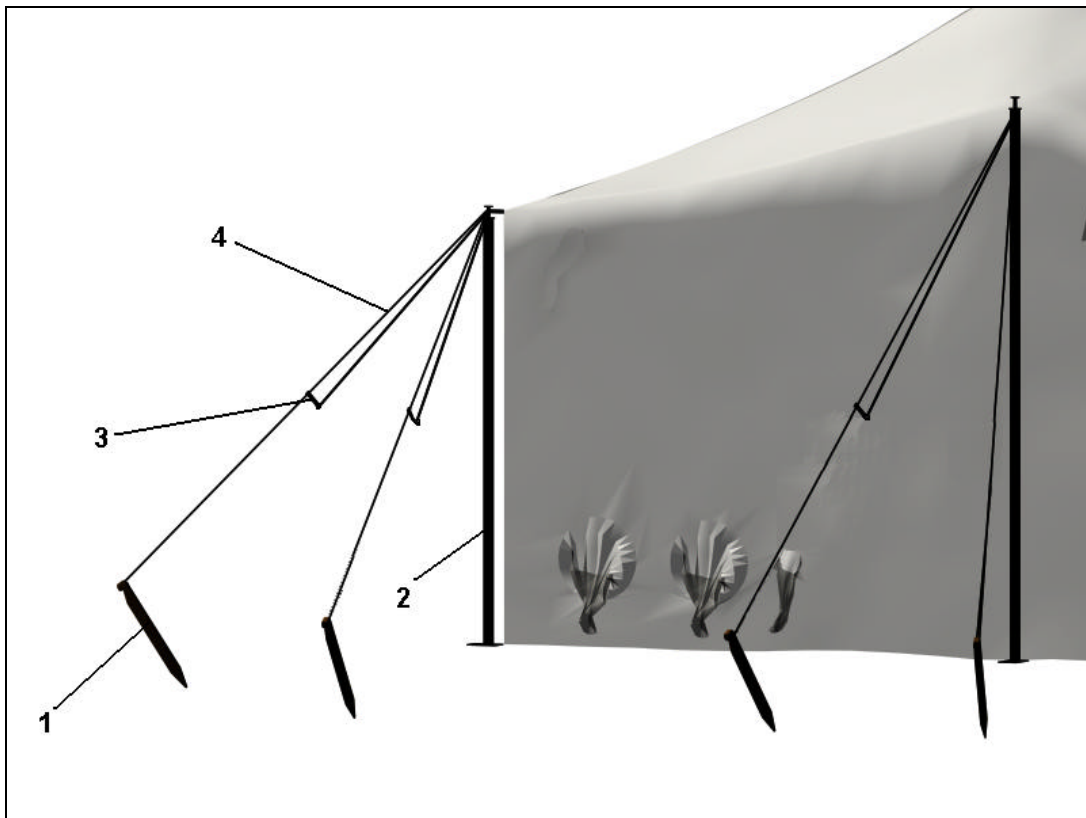


**Figure 0004 00-16 Y-Pole Arm and Peak Fitting**



**TENSIONING TENT**

- a. Tensioning tent. Corners should be tensioned first. Tension one corner at a time.
- (1) Start at a corner. The first person should position himself between stakes (1) and pole (2). He should grasp pole (2) at top, below cap assembly with both hands. This person rocks back towards stake (1) keeping base of pole in place. Second person tightens guy ropes, by sliding tensioner (3) down guy rope (4). Both people grasp Side Pole and straighten Side Pole (2) to vertical position. (See Figure 0004 00-17).



**Figure 0004 00-17 Tent Pole Attached to Tent**

- (2) Repeat procedure on other three corners.
- (3) Repeat this procedure on Side Poles.
- (4) Repeat this procedure for the two End Poles until entire tent is tensioned.

**NOTE**

Sidewall can be configured in three different ways:

- All walls down.
- Cloth walls rolled up with screen walls down.
- Both cloth walls and screen walls rolled up.

b. Attach vertical Fabric Sections together with hook and loop fasteners and buckles on flaps.

c. Staking sidewalls and poles:

- (1) Locate the 12-inch polycarbonate stakes.
- (2) Locate the rope loops at the base of the Side Walls.
- (3) Rope loops at side and end pole locations, should be looped over stake tubes.
- (4) A stake should be driven through both the rope loop and stake tube.
- (5) After stakes have been driven at all pole locations, find the remaining rope loops.
- (6) All remaining rope loops should be staked using the 12-inch polycarbonate stakes.

**NOTE**

Do not drive 12-inch stakes all the way into the ground; leave them about two inches out. This will make it easier to remove the stakes.

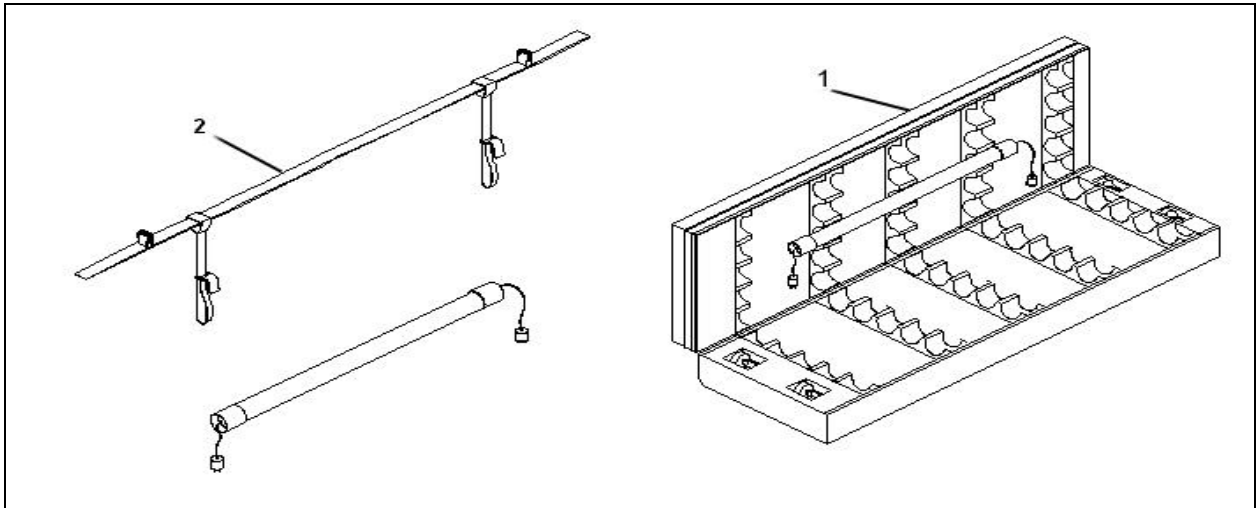
- (7) Tie sidewalls to poles using straps attached to tent fabric at pole locations.
- (8) At wall intersections, stake rope loops must pass through all four layers of fabric and grommets.

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**INSTALL LIGHT ASSEMBLIES**

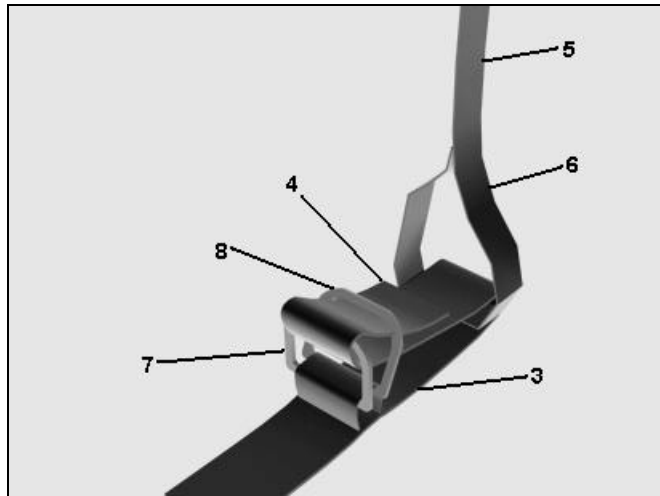
Use these procedures to complete installation of the light hangers. (WP 0034 00, Item 3)

- a. Inside light set case (1), locate light support strap assembly (2). (See Figure 0004 00-18).



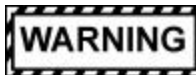
**Figure 0004 00-18 Light Assemblies**

- b. Inside tent, locate light hanger (5) at peak of End Section fabric. (See Figure 0004 00-19).
- c. Place one end (4) of light support strap assembly (2) through loop (6) on end of lighting hanger (5). The D-rings should now be facing the ground.
- d. Light support strap assembly (2) is then folded over itself so that D-rings (7) and (8) face the tent roof. (See Figure 0004 00-19).
- e. Pull the end (4) of light support strap assembly (2) through both D-rings (7) and (8) on assembly. Loop end (4) of assembly around the second D-ring (7) and through the first D-ring (8) to secure.
- f. Locate light hanger attached on inside of fabric near socket for Center Pole.
- g. Secure other end of light support strap assembly (2) to light hanger and secure in similar manner.
- h. Repeat procedure (b) through (g) for light strap assembly between the Mid and End Section.



**Figure 0004 00-19 Light Hanger Attachment**

- i. Install lights.



Two persons are required to lift light set case to avoid injury to personnel.



To prevent damage, leave luminaires in case until ready to install. Make sure male plug end is toward external power source.

- (1) Wrap strap loops around each end of light on inside of rubber end caps.
- (2) Pull strap up through D-ring and press down to engage hook and loop fasteners.
- (3) Mate plug properly to next light, ensuring reflecting surface faces up and lamp faces down.
- (4) Repeat step (1) through (3) for additional lights.

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**CAUTION**

Do not connect more than 12 lights together. Damage to electrical circuit may result.

- (5) Connect lights.

**INSTALL VESTIBULE**

When authorized, vestibule may be used as a passageway or blackout entryway. It may be connected to an End or Mid Section doorway. Erect the vestibule as follows for all configurations.

- a. Unroll vestibule adapter on tent door.
- b. Locate and lay out guy ropes from vestibule.
- c. Identify and spread out vestibule fabric.
- d. Locate, lay out and assemble vestibule arch sections.
- e. Identify ridge spindle grommet at one end of vestibule and vestibule adapter.
- f. Align vestibule spindle grommets with vestibule adapter spindle grommet.
- g. Insert vestibule arch spindles in vestibule adapter and vestibule spindle grommets. Secure ridge grommets with hitch clip pins.

**CAUTION**

Position hitch clip pins towards inside of vestibule at vestibule doorframe. Vestibule door fabric may tear if positioned towards outside.

- h. Use hook and pile to attach the vestibule fabric to the adapter starting at the ridge and working towards each eave. Secure adapter and vestibule using the tie tapes at all frame locations.
- i. Install vestibule door and secure with ridge hitch clip pins.
- j. Extend arch and fabric.
- k. Install two guy ropes under hitch clip pins on eave spindles of last vestibule arch.

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
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- l. Place 24-inch wooden stakes about 6 feet out, facing towards vestibule door.
- m. Tie guy ropes to stakes and tighten.
- n. Secure vestibule fabric to vestibule arch with tie tapes.
- o. Install a 12-inch stake in base plates of end vestibule arch.
- p. Repeat procedures (a) through (p) for the remaining vestibules.

End of Work Package

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
OPERATING INSTRUCTIONS**

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**OPERATE DOORS**

Use following procedures to operate door on MGPTS:

- a. Door is opened and closed using hook and loop fasteners. The inner door can be rolled up and secured with straps at the top.
- b. Outside the tent there is a sliding door. The sliding door can be secured in the open position with attached straps, and secured in the closed position with buckles.

**OPERATE WINDOWS**

Use following procedures to operate tent windows. Windows can be opened for ventilation or closed due to inclement weather. Windows have three panels.

- a. The fabric cover and clear windows are closed by hook and pile fasteners.
- b. The fabric cover and clear window can each be held open with tie tapes.
- c. Each layer must be rolled up towards the inside to prevent rain from being trapped within the folds.
- d. To fully close the fabric cover, the clear window must first be unrolled and secured.

## ROOF VENTS



Do not use any type of non-vented heaters. The use of non-vented heaters will cause the accumulation of carbon monoxide gas. Carbon monoxide gas is not visible and it has no smell. If symptoms of headache, dizziness, fatigue, nausea, or irregular breathing occur, move affected personnel to fresh air. **Failure to comply with this warning may result in personal injury or death.**

All fuel-burning heaters consume oxygen. Adequate ventilation must be maintained at all times. Keep roof vents clear of snow, ice, or debris. Open doors, windows, flaps, hook and loop fastener wall closures as needed to introduce sufficient fresh air to replace oxygen consumed by heaters. If symptoms of headache, dizziness, fatigue, nausea, or irregular breathing occur, move affected personnel to fresh air. **Failure to comply with this warning may result in personal injury or death.**

### NOTE

Roof vent is made from foam and is always open, no operation is required.

## OPERATE FABRIC WALLS

Outside walls can be rolled up and tied off for ventilation if needed.

## OPERATE STOVEPIPE OPENINGS

The stovepipe vent is opened and closed by pulling the cord (1) attached to the vent cover (2). To open, pull the cord (1) to the opposite side of the tent. To close, pull cord to the near side. The vent cover will secure itself when it is closed.

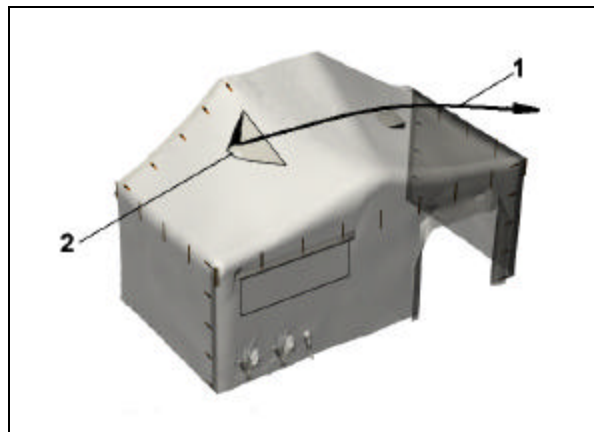


Figure 0005 00-01 Opening Stove Pipe Vent



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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
PREPARATION FOR MOVEMENT**

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**REMOVE VESTIBULE**

Use following procedures to remove the vestibule:

- a. Remove the 12-inch pins in base plates of end vestibule arch.
- b. Loosen guy lines to stakes.
- c. Remove 24-inch wooden stakes.
- d. On last vestibule arch remove two guy ropes on eave spindles.
- e. On tent door, untie Becket Lace from ridge to eave, unseal weather flap, remove the remaining hitch clip pins and complete becket unlacing.
- f. Remove vestibule door and unsecure ridge clip pins.
- g. Remove vestibule arch spindles from grommets.
- h. Remove vestibule arch and fabric from adapter.
- i. Repeat procedures (a) through (h) for remaining vestibule(s).

**REMOVE LIGHT ASSEMBLIES**

Use the following procedures to remove the light support strap assemblies.



Disconnect power source to avoid injury to personnel during removal of light assemblies.

- a. Locate light case.
  - (1) Turn off light and disconnect from power source.
  - (2) Pull light support strap down through D-ring and disengage hook and loop fasteners.
  - (3) Unwrap light support strap around each end of light.
  - (4) Place light in light case.
  - (5) Repeat steps (1) through (4) for removal of additional lights.

---

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
PREPARATION FOR MOVEMENT**

---

0006 00

(6) Remove light support strap assembly.

(7) Place light support strap assembly in light case.

**STRIKING TENT**

Use following procedures to strike the tent:

- a. Make sure fabric is dry before disassembly.
- b. Loosen Guy Ropes to reduce tension on fabric. Do not remove Guy Ropes.
- c. Remove Center Poles.
  - (1) Go inside of tent, using three persons, remove Center Poles from Peak Fittings one at a time.
  - (2) Position Center Pole on ground then fold arms down.



While folding down Center Pole arms  
caution must be used to avoid pinching  
fingers.

- (3) Move Center Poles to outside of tent for placement in pole bag.
- d. Unfasten buckles.
  - (1) Unfasten buckles on sidewalls. Open outer and inner flap.
  - (2) Detach hook and loop fasteners at sidewall connections.
  - (3) Repeat this procedure until all of side and corner wall connections are detached.
- e. Drop poles.
  - (1) Loosen guy ropes for poles.
  - (2) Lower poles to the ground in the following order: Side, End and Corner Poles.
  - (3) Remove poles from 1-1/2 inch web loop.
  - (4) Move poles to location for placement in pole bags.

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
PREPARATION FOR MOVEMENT**

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0006 00

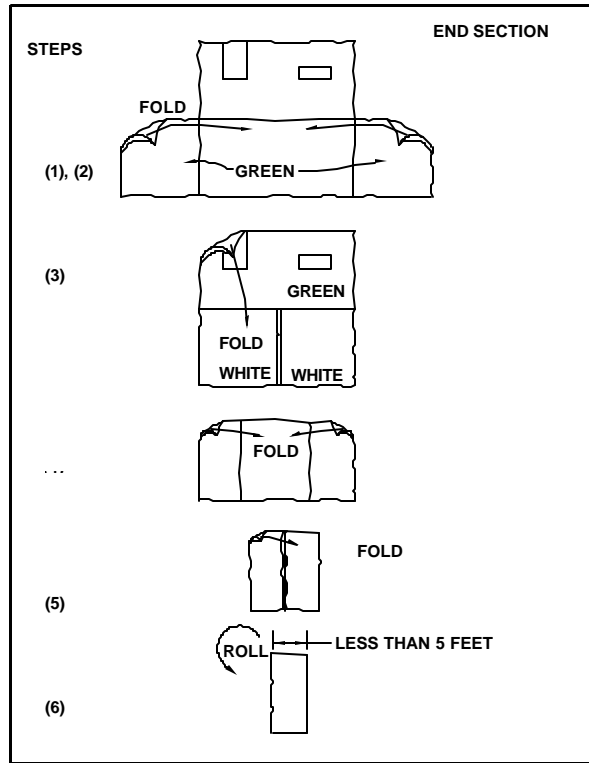
- f. Separate Fabric Sections.
  - (1) Lift flap and remove 1 1/2-inch web loop at the becket lace between each End and Mid Section.
  - (2) Unhook D-ring and undo snap hook at eave joint sections.
  - (3) Unhook buckles on roof and unfold flaps.
  - (4) Unlace Becket Lace.
  - (5) Remove Becket Lace from grommets.
  - (6) Unhook snap hook at the middle edge of the End and Mid Section.
  - (7) Repeat (1) through (6) for remainder of roof sections.
  - (8) Move Fabric Sections for folding and placement in transport bags.

**FOLD FABRIC SECTION**

The following section will demonstrate tent packing procedures for the MGPTS.

- a. The End Sections are to be folded as follows. (See Figure 0006 00-1).
  - (1) Start with the End Fabric Section spread out flat, with the green side facing upward.
  - (2) Fold each End Section wall over the End Section roof as shown.
  - (3) Fold end wall over End Section roof.
  - (4) Fold edges of roof inward on themselves, so that both meet at the center of the End Section roof.
  - (5) Fold fabric in half, so that the entire width of the folded section is less than 5 feet.
  - (6) Roll fabric as illustrated.

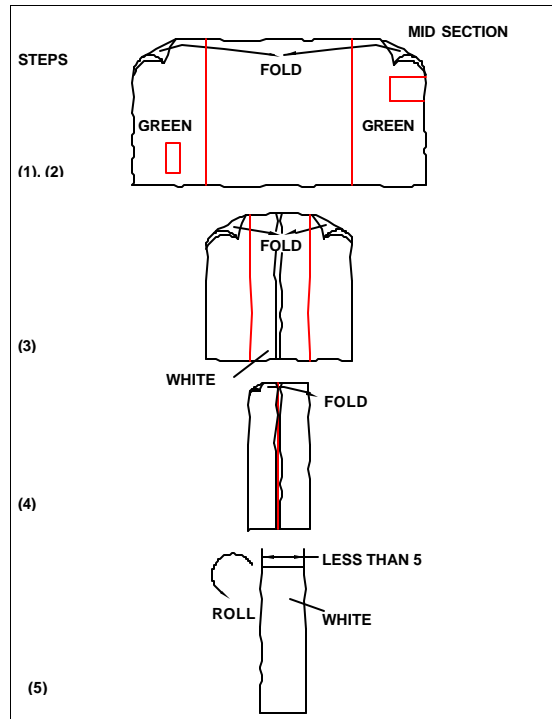
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**Figure 0006 00-1**

- c. The Mid sections (if used) are to be folded as follows. (See Figure 0006 00-2).
- (1) Start with the Mid Section spread out with the green side up, as shown below.
  - (2) Fold Mid Section walls over Mid Section roof so that the two outer edges of the fabric meet at the middle of the roof. Fold walls with the windows and door onto roof cloth, up to the perimeter edge, where wall meets roof cloth.
  - (3) Fold the Mid Section fabric in on itself as illustrated, so that the edges meet at the middle of the roof.
  - (4) Fold the edges of the Mid Section one final time, so that the width of the folded section is less than five feet.
  - (5) Roll fabric as illustrated.

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**Figure 0006 00-2**

- d. Ensure that all elements of the MGPTS are inspected as specified in the Preventive Maintenance Checks and Services (PMCS), WP 0018 00.
- e. Check all poles to ensure they are folded and locked in their original shipped condition.
  - (1) End poles should be retracted and locked at their original 7-foot height.
  - (2) Side and End Poles should have guy ropes and all original equipment attached as specified in the RPSTL WP 0021 00.
  - (3) Center poles should have the y-arms folded down to their original shipped condition.
- f. Place tent contents in properly labeled bags.
  - (1) The folded End Section fabric should be packed in the bag labeled "End Fabric Module."
  - (2) The bag labeled "End Poles," should have the following contents stored in it:
    - 1 Center Pole Assembly
    - 2 End Pole Assemblies
    - 6 Side Pole Assemblies
    - 16 - 36-inch wood stakes
    - 24 - 12-inch polycarbonate stakes

---

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
PREPARATION FOR MOVEMENT**

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0006 00

- (3) The folded Mid Section Fabric should be packed in the bag labeled "Mid Fabric Module."
- (4) The bag labeled "Mid Poles," should have the following contents stored in it:
  - 2 Center Poles Assemblies
  - 4 Side Pole Assemblies
  - 8 - 36-inch wood stakes
  - 12 - 12-inch polycarbonate stakes
- g. Ensure that transport bags are in one location and ready for shipment or storage.
- h. Storage of the MGPTS should be short, if not maintained. Items should be mission readied for deployment within 24 hours. While in storage, maintenance records should be kept.

**NOTE**

Before placing the MGPTS in long term storage, all problems should be fixed. All Modification Work Orders (MWO's) should be incorporated.

- i. Storage Site Selection. Inside storage is preferred for items selected for long term storage. If inside storage is not available; trucks, vans, and other containers may be used.

**IDENTIFICATION LABELS**

- a. Transport bags are labeled on outside of bag.
- b. Labels show contents, loaded weight, and personnel lift requirements.

---

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
OPERATION UNDER UNUSUAL CONDITIONS**

---

0007 00

**GENERAL**

While it is not possible to prepare for all of the unusual conditions to which the MGPTS will be exposed, the following information should be helpful during unusual climatic conditions.

## a. Operation in high winds



All guy ropes must be staked down. Failure to properly stake and tie down tent may result in injury to personnel and damage to equipment.

- (1) Replace wooden stakes with ground anchor kit. (WP 0034, Item 2).  
If ground anchor kit is not available use 36-inch wood stakes. (WP 0034, Item 11).
- (2) Close and fasten all windows, doors and pass-throughs.
- (3) Check all tent stakes and tighten guy ropes.
- (4) Secure base of tent, by placing sandbags or snow on mudskirts, position outside of tent.

## b. Wet climate

**NOTE**

Small amounts of moisture may accumulate in the upper corners of the MGPTS when rain rate is 4 inches per hour and 65-mph winds are present. Moisture accumulation will be small to unmeasurable. Users are advised that the MGPTS may not offer a completely sealed environment for some extreme conditions.

- (1) If heavy rain is expected, or MGPTS is going to be set up for a long period of time dig a perimeter trench around outside.
- (2) Dry all MGPTS components before packing.

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
OPERATION UNDER UNUSUAL CONDITIONS**

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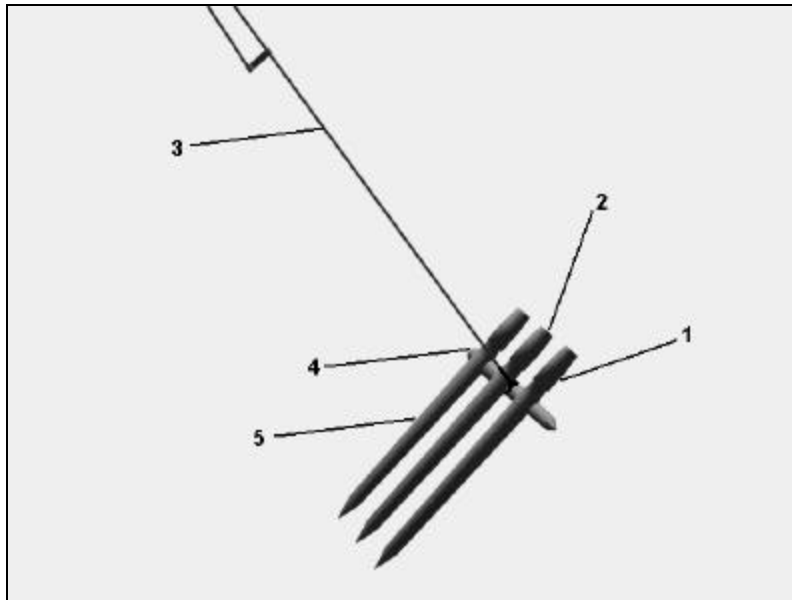
0007 00

## c. Soft Soil

**CAUTION**

If the soil is soft additional stakes are required. Failure to properly stake in soft soil may result in injury to personnel and damage to equipment

- (1) Install an additional wood stake (1) (WP 0034 00, Item 11) at each guy rope location six inches from the original stake (2). See Figure 0007 00-01.
- (2) Connect the guy rope (3) to a third wood stake (4), which should be placed horizontally behind the two stakes (1) and (2).
- (3) If necessary add a fourth stake (5) at each guy rope location.

**Figure 0007-00 01**

## d. Operation in Snow/Extreme Cold

- (1) Inspect all roof vents for snow and ice accumulations. If accumulations exist, clear all snow and ice from roof vent.
- (2) Gently push up on roof from inside the MGPTS to remove snow that may have piled up.



- (3) Before erecting the MGPTS in snow, gently tamp snow down to provide a firm surface on which to set up.

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
OPERATION UNDER UNUSUAL CONDITIONS**

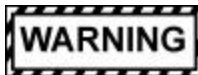
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0007 00

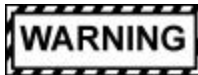
- (4) When erecting the MGPTS in severe cold, use care in handling and unfolding fabric components. Rough handling can cause component damage.



Do not use non-vented type heaters. The use of non-vented heaters will cause the accumulation of Carbon monoxide gas. Carbon monoxide gas is not visible and it has no smell. If symptoms of headache, dizziness, fatigue, nausea, or irregular breathing occur, move affected personnel to fresh air. **Failure to comply with this warning may result in personal injury or death.**



All fuel-burning heaters consume oxygen. Adequate ventilation must be maintained at all times. Keep roof vents clear of snow, ice or debris. Open doors, windows, flaps, and hook and loop fastener wall closures as needed to introduce sufficient fresh air to replace oxygen consumed by heaters. If symptoms of headache, dizziness, fatigue, nausea, or irregular breathing occur, move affected personnel to fresh air. **Failure to comply with this warning may result in personal injury or death.**



Stay alert to weather conditions and adjust all guy ropes at tent slips as required, before snow, ice, or water weight damages tent or injures personnel.

e. Extreme Heat

- (1) Roll up End walls and window/roof section fabric to provide maximum ventilation.
- (2) Open weather flaps on both sides of the tent sections.

- (3) Untie and disconnect hook and loop fastener connection as high as eave.

---

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
OPERATION UNDER UNUSUAL CONDITIONS**

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0007 00

- (4) Open the entranceway door and tie back.
- (5) Fold and roll fabric underneath itself and towards top. Tie with tie tape.
- f. Nuclear, Biological, and Chemical (NBC) decontamination
- (1) If Chemical or Biological contamination is expected, close all MGPTS openings such as windows, doors, stove pipe openings and pass-throughs.

**NOTE**

Perform unit level decontamination of the MGPTS only under supervision of unit NBC personnel.

- (2) If MGPTS is set up, decontaminate the fabric around the entranceway area of nuclear, chemical or biological contamination by applying STB slurry or brushing with hot soapy water.
- (3) Prepare slurry by mixing approximately equal parts of water with STB. Scrub slurry into fabric.
- (4) Remove slurry promptly with brushes (Work package 0035 00-2, Table 0035 00-1, Item 2) and liberal quantities of hot water and soap (Work package 0035 00-2, Table 0035 00-1, Item 1) then rinse with clear water.

**NOTE**

STB slurry may leave a harmless, white chalky residue. This is not a cause for concern.

- (5) Decontaminate the remaining sections of the MGPTS by natural methods. Expose the erected tent to the effects of weather and aeration for approximately 2-3 days.

**CAUTION**

Heavy concentration of DS2 is harmful to the MGPTS fabric. A fine spray mist is recommended. Do not scrub with mop or broom.

**NOTE**

DS2 will cause some change in fabric color.

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
OPERATION UNDER UNUSUAL CONDITIONS**

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**0007 00**

- (6) Aeration is not effective against V-agents. If contaminated by V-agent entire MGPTS must be decontaminated with DS2 slurry.

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**CHAPTER 3**  
**OPERATOR MAINTENANCE**

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
CHAPTER 3 INDEX**

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| STRUCTURAL INTEGRITY    |                    |
| Damaged Assemblies..... | 0009 00-1          |
| MAINTENANCE PROCEDURES  |                    |
| Repair.....             | 0010 00-1          |

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
TENT MAINTENANCE**

---

**0008 00****GENERAL**

The preventative maintenance required to keep the MGPTS functional should include regular inspection of the structure (refer to WP 0018 00). After severe weather is a good time to do so. Make sure that all guy ropes are properly tensioned. Make sure that all wooden and plastic tent stakes are properly secured (refer to WP 0007 00). A walk around inspection should also include a close look at becket lacing panels, and security of flaps and feed throughs.

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
STRUCTURAL INTEGRITY**

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**0009 00**

**DAMAGED ASSEMBLIES**

Damaged assemblies should be replaced when further structural damage or injury to personnel is possible. (Refer to WP 0021 00 and WP 0011 00 through WP 0019 00).

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
MAINTENANCE PROCEDURES**

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**0010 00**

**REPAIR**

Torn fabric will be mended by using tentage repair kit listed in WP 0034 00, item 1, for the MGPTS. This procedure is described in more detail in WP 0014 00.

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**CLEANING**

Proper cleaning of the MGPTS components is an integral part of maintenance. It can help prevent possible problems in the future, so make it a habit to clean all MGPTS components whenever necessary. The fabric sections must be dry before being folded and stored. Clean all MGPTS fabric components with a brush and mild soapy water (Refer to WP 0035 00, Item 2), and then let fabric dry.

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**CHAPTER 4**  
**UNIT MAINTENANCE INSTRUCTIONS**

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)**  
**CHAPTER 4 INDEX**

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**CLEANING**

Proper cleaning of the MGPTS components is an integral part of maintenance. It can help prevent possible problems in the future, so make it a habit to clean all MGPTS components whenever necessary. The fabric sections must be dry before being folded and stored. Clean all MGPTS fabric components with a brush and mild soapy water (Refer to WP 0035 00, Item 2), and then let fabric dry.

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
SERVICE UPON RECEIPT**

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**0012 00****UNPACKING**

The Unit Maintenance technician must inspect equipment before it is used. The technician will make the following checks when equipment is unpacked:

- a. Inspect equipment for damage incurred during shipment. If equipment has been damaged in shipment, report damage on SF 364 (Report of Discrepancy).
- b. Check equipment against packing list to see if shipment is complete.
- c. Report all discrepancies in accordance with DA Pam 738-750.
- d. Check to see whether equipment has been modified.
- e. Service damaged equipment as necessary, using Unit Maintenance procedures in WP 0013 00 to restore equipment to operable condition.

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)****0013 00**

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**MAINTENANCE INSTRUCTIONS**

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**GENERAL**

- a. This section contains unit maintenance applicable to the MGPTS as authorized by the Maintenance Allocation Chart (MAC) in WP 0020 00 of this manual. Unit Maintenance personnel may also perform all functions allocated to Operator Maintenance Level. The following topics are included as applicable: inspect, service, and repair.
- b. One person can perform all maintenance procedures in this section unless otherwise indicated in initial setup. Read all warnings, cautions, notes and instructions carefully before attempting procedures. Read and understand all warnings at front of this manual.
- c. Fabric Repair and Stitching. Unit Maintenance repairs to tent fabric assemblies will be limited to capabilities of Tentage Repair Kit (WP 0034 00, Item 1). Repair punctures up to 1/8" (3.2mm) in diameter using procedures in WP 0014 00. For rips, tears and holes not larger than 4 inches in diameter, refer to WP 0014 00. Refer to WP 0015 00 for hand stitching instructions. Whenever possible, repairs to fabric-requiring stitching should be accomplished by sewing machine at the Unit Support Maintenance Level. Consult FM 10-16 for more guidance on repairing fabric.

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
REPAIR OF HOLES AND TEARS IN FABRIC ASSEMBLES.**


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0014 00

**THIS SECTION COVERS:**

Repair

**INITIAL SETUP**

Fabric Assembly, End Wall and Mid Module Assembly, Unpacked

**Maintenance Level**

Unit

**Tools:**

Tentage Repair Kit (WP 0034 00, Item 1)

**Materials/Parts:**

Fabric (WP 0030 00)

**Equipment Conditions:**

Although fabric assemblies can be repaired during operational use of MGPTS when necessary, it is recommended that fabric be repaired when MGPTS is not in use. Fabric assemblies should be clean and dry.

- a. (See Figure 0014 00-1). Obtain a clean, round patch (1) from bulk material that is at least 1 inch larger than the damaged fabric area (2) in all directions.
- b. Place the damaged fabric area (2) on a flat surface, or place a piece of softwood under the damaged fabric area (2).
- c. Center patch (1) over damaged fabric area (2). Draw a circle on fabric (2) around patch (1), then remove patch (1).
- d. Clean damaged fabric area (2) inside circle.

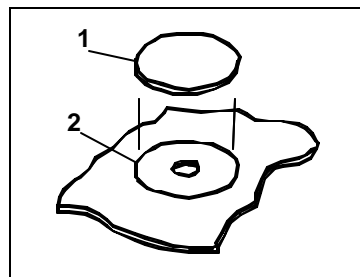
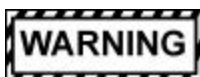


Figure 0014 00-1



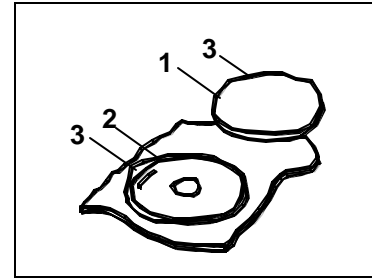
The adhesive has a high alcohol content and is highly flammable. Use only in well ventilated areas away from open flame. Do not smoke. In case of dizziness, leave area immediately and allow to ventilate. **Failure to observe this warning may result in injury or death.**

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
REPAIR OF HOLES AND TEARS IN FABRIC ASSEMBLES.**

0014 00

- e. (See Figure 0014 00-2). Place patch (1) face-down over circle. Coat patch evenly with adhesive (3), allowing adhesive to overlap onto fabric to form an adhesive circle. Remove patch (1) and set aside with adhesive side up.



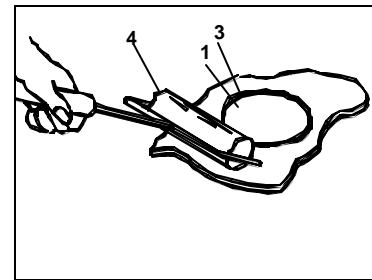
**Figure 0014 00-2**

- f. Coat damaged fabric (2) with adhesive (3) inside circle. Allow adhesive (3) on patch and adhesive circle to dry.

- g. Apply a second coat of adhesive (3) to patch and inside adhesive circle.

- h. Wait ten to fifteen minutes for adhesive (3) to become tacky to touch.

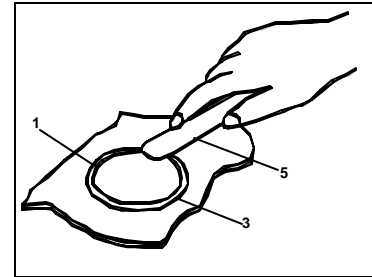
- i. (See Figure 0014 00-3). Center patch (1) over circle, adhesive side down, and press the two sticky surface together.



**Figure 0014 00-3**

- j. Using hand roller (4), press excess adhesive (3) and air bubbles from under patch. Roll first in one direction, then in opposite direction.

- k. (See Figure 0014 00-4). Using tongue depressor (5), apply a small amount of adhesive (3) to edge of patch (1). Run tongue depressor (5) around patch (1) to seal and prevent fraying.



**Figure 0014 00-4**

- l. Allow adhesive (3) to dry.



**THIS SECTION COVERS:**

Repair

**INITIAL SETUP:**

Fabric Assembly, End Wall and Mid Module Assembly, Unpacked

**Maintenance Level:**

Unit

**Tools:**

Size FF Needle,  
II Class, Sailmaker No. 14 FM 10-16 Field Manual.  
Tentage Repair Kit (WP 0034 00, Item 1)

**Materials/Parts:**

Thread, Polyester Type I or  
Bees Wax

**Equipment Conditions:**

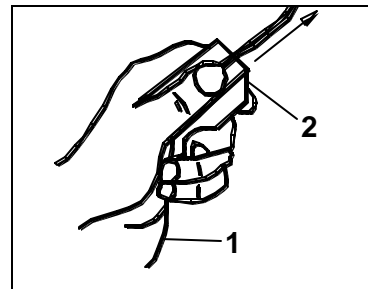
Although the fabric assemblies can be repaired during operational use of the MGPTS when necessary, it is recommended that the fabric be repaired when the MGPTS is not in use (refer to WP 0006 00 for striking instructions). The fabric assemblies should be clean and dry.

- a. Preparing Needle and Thread.

**NOTE**

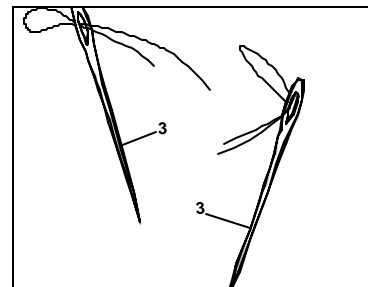
If you use two-strand thread you will need twice as much; if you use four-strand, you will need four times as much.

- (1) Estimate amount of thread required to complete stitching and cut thread to length.
- (2) (See Figure 0015 00-1). Wax thread (1) by pressing between thumb and beeswax (2) and drawing entire length over beeswax (2).
- (3) (See Figure 0015 00-2). Thread sailmaker's needle (3) with waxed thread to form a single, two, or four-strand thread as follows:



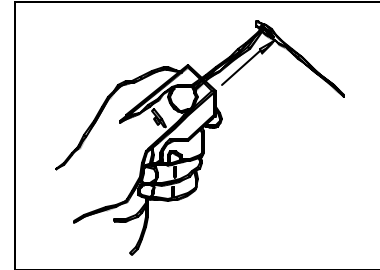
**Figure 0015 00-1**

- (a) One end and push the loop through the eye of the needle.
- (b) Two-Strand. To make a double strand thread, pull the thread through the needle until the needle is at the midpoint of the single thread strand.
- (c) Four-Strand. To form four-strand thread, bend a length of thread in half and insert the loop end into the eye of the needle, pulling it through so that the eye is at the midpoint of the double strand of thread.



**Figure 0015 00-2**

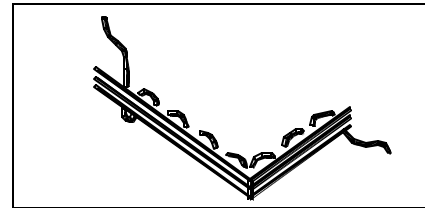
- (4) Twist the strand together and rewax the entire length of thread.
- (5) Tie knot at far end of the single, two, or four-strand thread.



**Figure 0015 00-3**

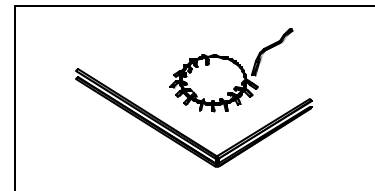
b. Handstitches. There are five common hand stitches used to mend fabric in different situations. Choose the one that most closely resembles the repair you are making.

- (1) Flat Stitch. (See Figure 0015 00-4). This stitch is used as a temporary fastening until machine repairs can be made. Pass the needle over and under an equal amount of material, each successive entering the material from the opposite side.



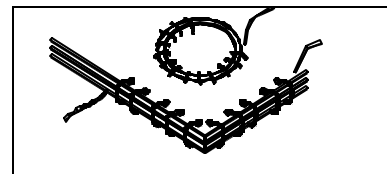
**Figure 0015 00-4**

- (2) Round Stitch. (See Figure 0015 00-5). This stitch is used to handwork grommets. Insert the materials at right angles to the edge of materials and bring around edge before making the next stitch.



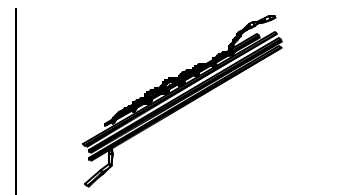
**Figure 0015 00-5**

- (3) Overcast Stitch. (See Figure 0015 00-6). This stitch is used to apply a hand-sewn patch. Insert the needle through the material at an angle so that it comes out to one side and ahead of the point of insertion, and bring the cord over to the original line of insertion before making the next stitch.



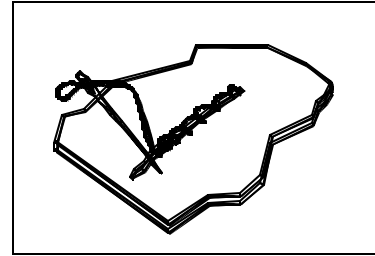
**Figure 0015 00-6**

- (4) Backstitch. (See Figure 0015 00-7). This Stitch is used to secure an open seam. It is so named because the needle is always set back one half of a stitch length into the last stitch made. Make two small stitches in the same place to secure the cord ends. Continue by inserting the needle into the middle of the preceding stitch and bringing it out on the same side of the material one stitch length in advance of preceding stitch.



**Figure 0015 00-7**

- (5) Fishbone Stitch. (See Figure 0015 00-8). This stitch is used to join edges of a tear unit; a patch can be applied. Insert needle between two edges of material to be sewn together. Take a diagonal stitch from one side toward the other, bringing the needle out between the two edges. Repeat this operation on the opposite side, and continue alternating stitches from side to side. To keep the stitches uniform, hold the edges smoothly together. Make stitches firmly, but do not pull them tight enough to pucker the fabric.

**Figure 0015 00-8**

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
GROMMET MAINTENANCE INSTRUCTION**


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0016 00

**This Task Covers:**

Removal and Replacement.

**INITIAL SETUP****Maintenance Level:**

Unit

**Tools:**

Repair kit, Tentage (WP 0034 00, Item 1)  
Cutting Punch, Rawhide Mallet  
Set-Punch and Die

**Materials/Parts:**

Lumber, softwood  
(WP 0023 00, Item 3)  
Grommet No. 4 or 5  
(WP 0030 00)

---

**Equipment Condition:**

MGPTS removed from service (refer to WP 0006 00).

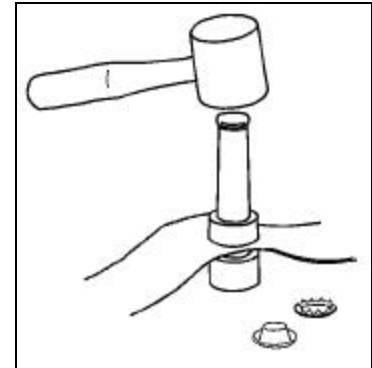
- a. If still attached, cut the damaged grommet from fabric.

**NOTE**

If fabric repair is required, refer to WP 001400 and 0015 00 for repair and stitching instructions.

A die-inserted grommet consists of two brass parts. The male half, called a barrel, is smooth. The female half, called a washer, has spurs that grip the fabric.

- b. Insert a grommet.
  - (1) Position fabric face up on end grain surface of softwood lumber. (See Figure 0016 00-1).
  - (2) Using a size 5 cutting punch for a size 4 grommet (or a size 6 cutting punch for a size 5 grommet) and a rawhide mallet, cut a grommet hole in patch by hitting top of cutting punch with rawhide mallet.

**Figure 0016 00-1**

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
GROMMET MAINTENANCE INSTRUCTION****0016 00**

- (3) Insert grommet barrel into hole of fabric from the underside.  
(See Figure 0016 00-2).
- (4) Place fabric and bottom (flat) part of grommet barrel on grommet die.
- (5) Place the grommet washer, spurs down, over grommet barrel.
- (6) Insert setting punch into grommet barrel and hold in place.
- (7) Hit top of setting punch with rawhide mallet hard enough to clinch the parts to fabric without damaging grommet or fabric.

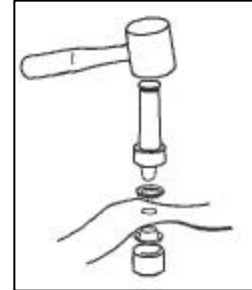


Figure 0016 00-2

**NOTE**

When parts are clinched properly, the edge of the grommet barrel has a smooth roll.

---

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
END POLES**

---

**0017 00**

**This task covers:**

Remove, Replace

---

**INITIAL SETUP**

**Tools:**

**Materials/Parts:**

Lower End Pole Weldment ,P/N 2490301  
End Pole Upper Assy, P/N 2500002  
Split Ring

---

**Equipment Condition:**

Pole removed from service (WP 0006 00)

- a. Replace End Pole Assembly
  - (1) Remove
    - (a) Remove damaged End Pole assembly drilling out from pole assembly.
  - (2) Install
    - (a) Obtain serviceable spindle assembly. Slide spindle assembly into pole assembly and align rivet holes.
    - (b) Install rivets.

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
PREVENTIVE MAINTENANCE CHECK AND SERVICES (PMCS)**

---

0018 00

**INTRODUCTION**

Preventive Maintenance Checks and Services (PMCS) are performed to keep the MGPTS in good operating condition. The checks are used to find, correct, or report problems. Unit personnel are to do the PMCS jobs as shown in the PMCS tables. PMCS are done every day the MGPTS is operated, using the PMCS table.

"**During**" refers to PMCS inspection intervals, while using the MGPTS.

"**After**" refers to PMCS inspection intervals, after using the MGPTS.

If you find something wrong when performing PMCS, fix it using maintenance procedures (WP 0013 00 through WP 0017 00).

The right-hand column of the PMCS table lists conditions that make the MGPTS not fully mission capable. Write up the faults not fixed on DA Form 2404 for unit support maintenance. For further information on how to use this form, see DA 738-750.

If tools required to perform PMCS are not listed in procedure, notify your supervisor.

**INSPECTION**

Look for signs of trouble. Using your senses helps here. You can feel, smell, hear, or see many problems that can be eliminated before they get worse. Inspect to see if items are in good condition. Are components correctly installed and secured? Is any damage to the fabric or frame components visible? Correct any faults or notify unit support maintenance.

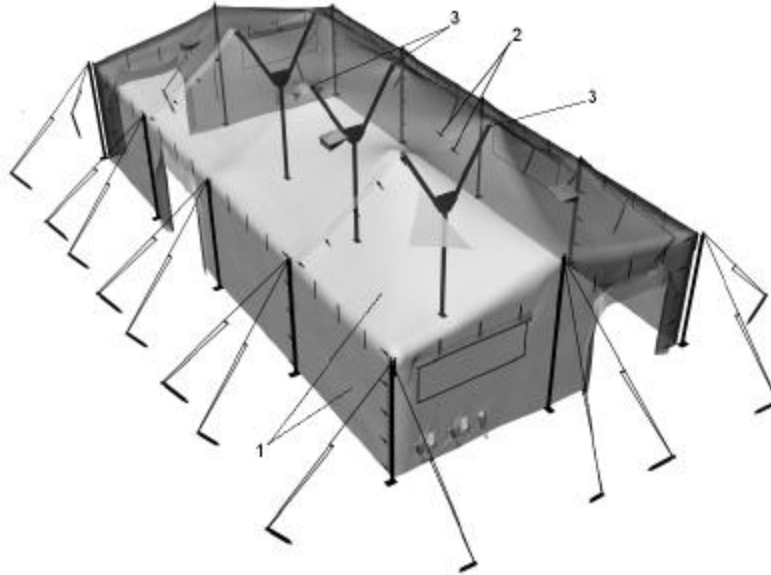
There are some common items to check on the MGPTS. These include the following:

- Fabric sections, including windows, and personnel doors.
- Pole sections, including attached hardware and pike fittings.
- Lights, including power cords.
- Transport Covers and Bags

Be sure to observe all special information and notes that appear in your table.

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
PREVENTIVE MAINTENANCE CHECK AND SERVICES (PMCS)**

**0018 00**

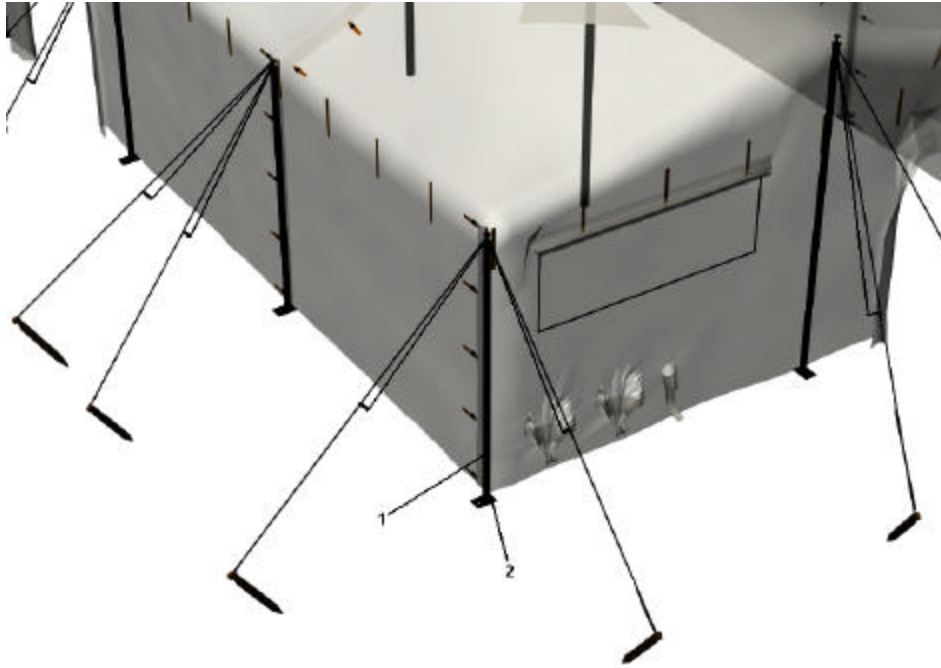


**Table 0018 00-1 FABRIC SECTIONS**

| Item No. | Interval        | Location Item to Check/ Service     | Procedure  | Not Fully Mission Capable If:                                 |
|----------|-----------------|-------------------------------------|--|---|
|          |                 | <b>End Sections<br/>Mid Section</b> |  |   |
| 1        | During<br>After | Roof and<br>Wall                    | Inspect roof fabric and<br>Wall fabric (1) for punctures,<br>Holes, and tears. | Roof or wall fabric has<br>punctures, holes, or tears.        |
| 2        | During<br>After | Buckles                             | Ensure all quick disconnect<br>Fasteners (2) are present<br>and serviceable.   | Quick disconnect fasteners are<br>missing or not serviceable. |
| 3        | During<br>After | Center Pole                         | Ensure all peak fittings (3)<br>are present                                    | Peak fittings missing.  |

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
PREVENTIVE MAINTENANCE CHECK AND SERVICES (PMCS)**

**0018 00**

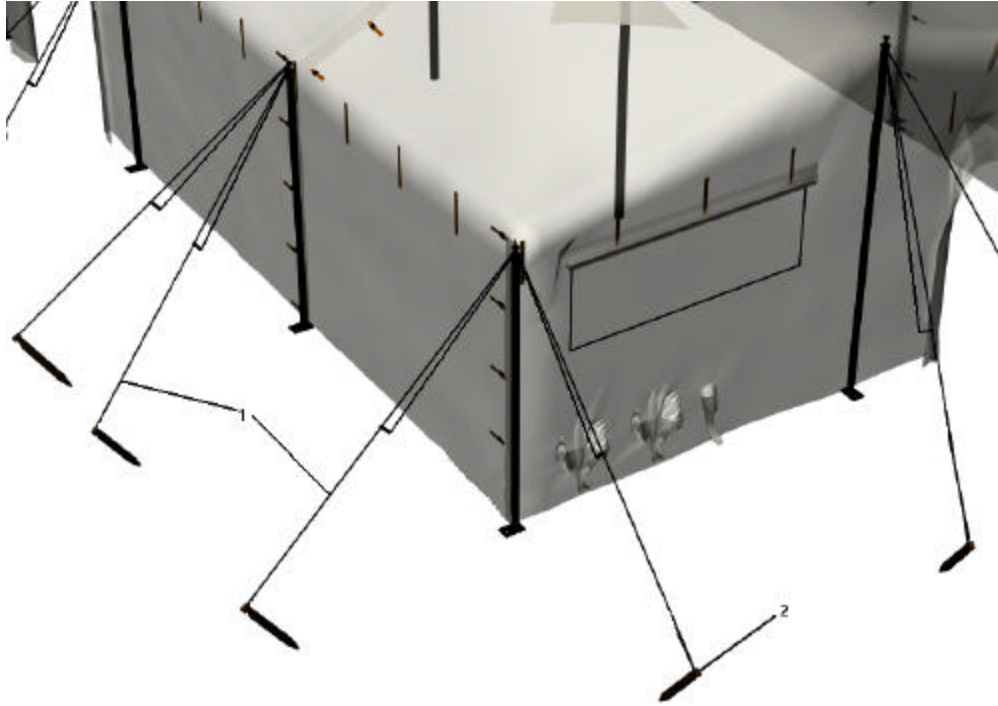


**Table 0018 00-2. POLE ASSEMBLIES**

| Item No. | Interval        | Location Item to Check/ Service | Procedure                                     | Not Fully Mission Capable If:         |
|----------|-----------------|---------------------------------|---|---------------------------------------|
|          |                 | <b>Pole Assemblies</b>          |   |                                       |
| 1        | During<br>After | Tubing                          | Inspect poles (1) for bends and cracks.       | Pole components have bends or cracks. |
| 2        | During<br>After | Base                            | Inspect base (2) for cracked or broken areas. | Base is cracked or broken             |

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
PREVENTIVE MAINTENANCE CHECK AND SERVICES (PMCS)**

**0018 00**



**Table 0018 00-3. GUY ROPES AND STAKES**

| Item No.                    | Interval | Location Item to Check/ Service | Procedure  | Not Fully Mission Capable If:            |
|-----------------------------|----------|---------------------------------|--|--|
| <b>Guy Ropes and Stakes</b> |          |                                 |  |  |
| 1                           | During   | Guy Ropes                       | Ensure all guy ropes (1) are installed, serviceable, and snug. | Guy ropes not installed, not serviceable |
| 2                           | During   | Stakes                          | Ensure stakes (2) are firmly in ground.                        | Stakes are missing, or not serviceable.  |

End of Work Package

**CHAPTER 5**  
**SUPPORTING INFORMATION**

---

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
CHAPTER 5 INDEX**

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)**

**0019**

**00**

**REFERENCES**

**SCOPE**

This work package lists all forms, pamphlets, field manuals, technical manuals, army regulations, military specifications, and military standards referenced in the manual.

**DA PAMPHLETS**

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

**FEDERAL STANDARDS**

Colors .....FED-STD-595  
 Stitches, Seams and Stitching .....FED-STD-751

**FIELD MANUALS**

Decontamination Procedures ..... FM 3-5  
 First Aid for Soldiers ..... FM 21-11  
 General Fabric Repair ..... FM 10-16

**FORMS**

Discrepancy in Shipment Report ..... SF 361  
 Equipment Inspection and Maintenance Worksheet ..... DA Form 2404  
 Quality Deficiency Report ..... SF 368  
 Recommended Changes to Equipment Technical Publications ..... DA Form 2028-2  
 Report of Discrepancy ..... SF 364  
 Report of Packaging and Handling Deficiencies ..... SF 362

**MILITARY STANDARDS**

Palletizing Unit Loads ..... MIL-STD-147  
 Quality of Wood Members for Containers and Pallets ..... MIL-STD-731  
 Treatment and Painting of Material ..... MIL-STD-704

**TECHNICAL MANUALS**

Camouflage Screen and Screen Support Systems ..... TM 5-1080-200-13&P  
 Destruction of Army Material to Prevent Enemy Use ..... TM 750-244-3  
 Administrative Storage of Equipment ..... TM 740-90-1  
 Preservation, Packaging, and Packing of Military Supplies and Equipment ..... TM 38-230-2

**MISCELLANEOUS**

Army Medical Department Expendable Items ..... CTA 8-100  
 Expendable/Durable Items ..... CTA 50-97

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
MAINTENANCE ALLOCATION CHART (MAC)**

---

0020 00

**INTRODUCTION****The Army Maintenance System MAC**

This introduction provides a general explanation of all maintenance and repair functions authorized at various maintenance levels under the Standard Army maintenance System concept.

The 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 will be consistent with the capacities and capabilities of the designated maintenance levels, which are shown on the MAC in column (4) as:

Unit - includes two sub-columns, C (operator/crew) and O (unit) maintenance.

Direct Support - includes an F sub-column.

General Support - includes an H sub-column.

Depot - includes a D sub-column.

The tools and test equipment (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) contains supplemental instructions and explanatory notes for a particular maintenance function.

**MAINTENANCE FUNCTIONS**

Maintenance functions are limited to and defined as follows:

- a. 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).
- b. Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards.
- c. 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.
- d. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specified parameters.
- e. Align. To adjust specified variable elements of an item to bring about optimum performance
- f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test, measuring, and diagnostic equipment's 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.

- g. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of placing, 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.
- h. 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 3d position code of the SMR code.
- i. Repair. The application of maintenance services<sup>1</sup> including fault location/ trouble-shooting<sup>2</sup>, removal/installation, and disassembly/assembly<sup>3</sup> procedures, and maintenance actions<sup>4</sup> to 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.
- j. 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 (i.e., DMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
- k. Rebuild. Consists of those service/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 materiel 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's/components.

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<sup>1</sup> Services - Inspect, test, service, adjust, align, calibrate, and/or replace.

<sup>2</sup> 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 (ULTT).

<sup>3</sup> 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).

<sup>4</sup> Actions - Welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
MAINTENANCE ALLOCATION CHART (MAC)**

---

0020 00

**EXPLANATION OF COLUMNS IN THE MAC**

- a. Column 1, Group Number. Column 1 lists functional group code numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the next higher assembly.
- b. Column 2, Component/Assembly. Column 2 contains the item names of components, assemblies, subassemblies, and modules for which maintenance is authorized.
- c. Column 3, Maintenance Functions. Column 3 lists the functions to be performed on the item listed in Column 2. (For detailed explanation of these functions, see maintenance functions in WP 0020 00).
- d. 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 man-hours in whole hours or decimals) in the appropriate sub-column. 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 vary 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 maintenance allocation chart. The symbol designations for the various maintenance levels are as follows:  
  
C Operator or crew maintenance  
O Unit maintenance  
F Direct support maintenance  
L Specialized Repair Activity (SRA)  
H General support maintenance  
D Depot maintenance
- e. Column 5, Tools and Test Equipment Reference Code. Column 5 specifies by code, those common tool sets (not individual tools), common TMDE, and special tools, special TMDE, and special support equipment required to perform the designated function. Codes are keyed to tools and test equipment in Table 0020 00-2.
- f. Column 6, Remarks. When applicable, this column contains a letter code, in alphabetical order, which is keyed to the remarks contained in Table 0020 00-3.

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
MAINTENANCE ALLOCATION CHART (MAC)**

**0020 00**

| Table 0020 00-1 MAC for MGPTS |  |   |                                |   |            |   |   |                                     |                |
|-------------------------------|--|---|--------------------------------|---|------------|---|---|-------------------------------------|----------------|
| (1)<br>Group<br>Number        | (2)<br>Component/Assembly  | (3)<br>Maintenance<br>Function          | (4)<br>Maintenance<br>Category |   |            |   |   | (5)<br>Tools &<br>Test<br>Equipment | (6)<br>Remarks |
|                               |  |   | Unit                           |   |            |   |   |                                     |                |
|                               |  |   | C                              | O | F          | H | D |                                     |                |
| 00                            | Modular General Purpose Tent System (MGPTS) (Small, Medium, Large) | Inspect<br>Service<br>Repair<br>Replace | 2.2<br>.3                      |   | 2.1<br>2.2 |   |   | 1                                   | A<br>B<br>C    |
| 01                            | Section Assembly, End Module Fabric                                | Inspect<br>Repair<br>Replace            | .3                             |   | .5<br>.2   |   |   | 1                                   | A<br>C         |
| 02                            | Section Assembly, Mid Module Fabric                                | Inspect<br>Repair<br>Replace            | .3                             |   | .5<br>.2   |   |   | 1                                   | A<br>C         |
| 03                            | Tent Pole (Side)   | Inspect<br>Replace                      | .2                             |   | .4         |   |   | 1                                   | A<br>C, D      |
| 04                            | Tent Pole (End)  | Inspect<br>Repair<br>Replace            | .2                             |   | .5<br>.1   |   |   | 1                                   | A<br>C, D,E    |
| 0401                          | DELETED  |   |                                |   |            |   |   |                                     |                |
| 0402                          | DELETED  |   |                                |   |            |   |   |                                     |                |

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
MAINTENANCE ALLOCATION CHART (MAC)**

**0020 00**

| Table 0020 00-1 MAC for MGPTS (continued) |                           |                                |                                |    |   |   |   |                                  |                |
|---|---------------------------|--------------------------------|--------------------------------|----|---|---|---|----------------------------------|----------------|
| (1)<br>Group<br>Number                    | (2)<br>Component/Assembly | (3)<br>Maintenance<br>Function | (4)<br>Maintenance<br>Category |    |   |   |   | (5)<br>Tools & Test<br>Equipment | (6)<br>Remarks |
|   |                           |                                | Unit                           |    |   |   |   |                                  |                |
|   |                           |                                | C                              | O  | F | H | D |                                  |                |
| 05  | Tent Pole (Y)             | Inspect<br>Replace             | .2                             | .3 |   |   |   | A<br>C                           |                |
| 06  | Stake, Hold Down, Tent    | Inspect<br>Replace             | .4                             | .4 |   |   |   | A                                |                |
| 0601                                      | DELETED                   |                                |                                |    |   |   |   |                                  |                |
| 0602                                      | DELETED                   |                                |                                |    |   |   |   |                                  |                |
| 07  | Bags, Tent                | Inspect<br>Replace             | .6                             | .6 |   |   |   | A                                |                |
| 0701                                      | DELETED                   |                                |                                |    |   |   |   |                                  |                |
| 0702                                      | DELETED                   |                                |                                |    |   |   |   |                                  |                |
| 0703                                      | DELETED                   |                                |                                |    |   |   |   |                                  |                |
| 0704                                      | DELETED                   |                                |                                |    |   |   |   |                                  |                |

| <b>Table 0020 00-2 Tools and Test Equipment for MGPTS</b> |                          |                     |                              |                    |
|---|--------------------------|---------------------|------------------------------|--------------------|
| <b>Tools or Test Equipment Ref Code</b>                   | <b>Maintenance Level</b> | <b>Nomenclature</b> | <b>National Stock Number</b> | <b>Tool Number</b> |
| 1   | 0                        | Tentage Repair Kit  | 8340-00-262-5767             |                    |

**REMARKS FOR MGPTS**

| <b>Table 0020 00-3 REMARKS</b> |  |
|--------------------------------|--|
| <b>Remarks Code</b>            | <b>Remarks</b>   |
| A                              | Inspect in accordance with PMCS  |
| B                              | Clean all fabric components with soapy water                               |
| C                              | Unit level repair is limited to the capabilities of the Tentage Repair Kit |
| D                              | Replace Guy Rope Assembly if frayed or unraveled                           |
| E                              | Replace Split Ring if broken or elongated                                  |

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
REPAIR PARTS LIST**

**0021 00**

**INTRODUCTION**

**SCOPE**

This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment for performance or unit maintenance of the Modular General Purpose Tent System (MGPTS). 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. Bulk materials are listed by item name in WP 0030 00, at the end of the work packages. Repair parts for separate 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. These are two cross-reference indexes work packages in this RPSTL: the National Stock Number (NSN) Index work package and the Part Number (P/N) Index work package. The National Stock Number Index work package refers you to the figure and item number. The part Number Index work package refers you to the figure and item number.

**EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST WORK PACKAGE.**

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:

| <u>Source Code</u>                        | <u>Maintenance Code</u>   | <u>Recoverability Code</u>  |
|---|---|---|
| <u>Xx</u>                                 | <u>xx</u>   | <u>x</u>  |
| 1st two positions:<br>How to get an item. | 3rd position:<br>Who can install,<br>replace, or use the<br>item. | 4th position:<br>Who can do complete<br>repair* on the item                         |
|   |   | 5th position:<br>Who determines<br>disposition action<br>on unserviceable<br>items. |

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
REPAIR PARTS LIST**

**0021 00**

\* Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

Source Code: The source code tells you how you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow:

| <u>Source Code</u>         | <u>Application/Explanation</u>  |
|----------------------------|---|
| PA                         | 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.   |
| PB                         |   |
| PC                         |   |
| PD                         |   |
| PE                         |   |
| PF                         |   |
| PG                         |   |
|                            | <b>NOTE</b>   |
|                            | Items coded PC are subject to deterioration.  |
| KD                         | 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.   |
| KF                         |   |
| KB                         |   |
| MO-Made at unit            | Items with these codes are not to be requisitioned requested individually.  |
| MF-Made at DS level        | 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 RPSTL. 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 higher level, order the item from the higher level of maintenance                    |
| MH-Made at GS level        |   |
| ML-Made at SRA             |   |
| MD-Made at depot           |   |
| AO-Assembled by unit level | 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 3rd position 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 |
| AF-Assembled by DS level   |   |
| AH-Assembled by GS level   |   |
| AL-Assembled by SRA        |   |
| AD-Assembled by depot      |   |



**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
REPAIR PARTS LIST**

**0021 00**

- the higher level of maintenance.
- XA Do not requisition an "XA" coded item. Order the 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 those items 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 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 the following levels of maintenance:

| <u>Maintenance Code</u> | <u>Application/Explanation</u>                                     |
|-------------------------|--|
| C                       | Crew or operator maintenance done within unit maintenance.         |
| O                       | Unit level maintenance can remove, replace, and use the item.      |
| F                       | Direct support 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 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).

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)**  
**REPAIR PARTS LIST**


---

0021 00

**NOTE**

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

| <b><u>Maintenance Code</u></b> | <b><u>Application/Explanation</u></b>  |
|--------------------------------|--|
| O                              | Unit is the lowest level that can do complete repair of the item.  |
| F                              | Direct support 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 (Designate the 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 maintenance of "B" coded items. 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:

| <b><u>Recoverability Code</u></b> | <b><u>Application/Explanation</u></b>  |
|-----------------------------------|--|
| Z                                 | Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code.  |
| O                                 | Reparable item. When uneconomically repairable, condemn and dispose of the item at the unit level  |
| F                                 | Reparable item. When uneconomically repairable, condemn and dispose of the item at the direct support level.   |
| H                                 | Reparable item. When uneconomically repairable, 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 are 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 five 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.

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
REPAIR PARTS LIST**

---

**0021 00****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 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.

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**GROUP 00 Modular General Purpose Tent System (MGPTS)  
REPAIR PARTS LIST**

**0022 00**

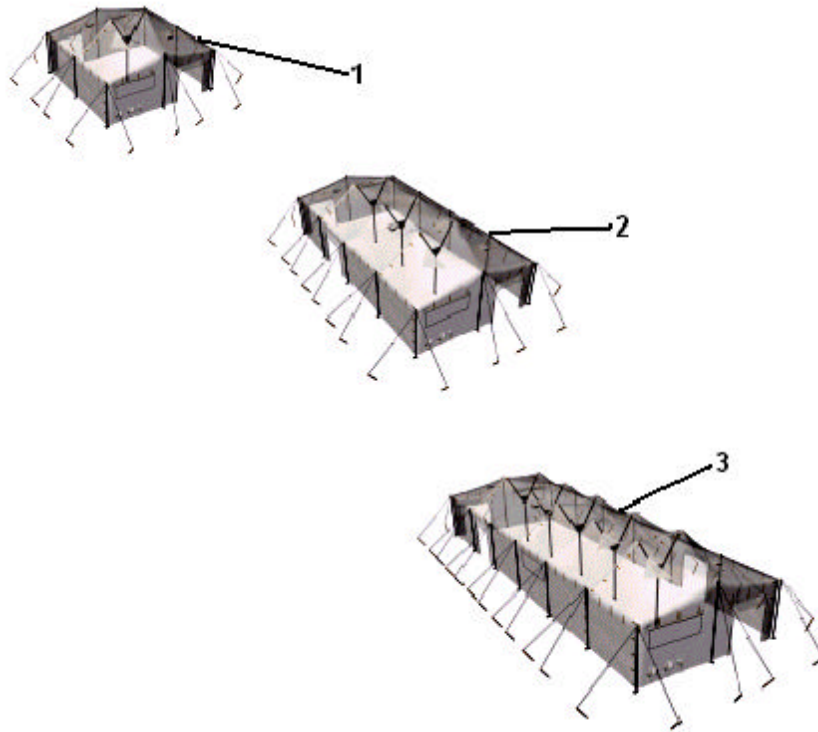


Figure 1. Modular General Purpose Tent System (MGPTS) Small, Medium, Large

| (1)<br>ITEM<br>NO.  | (2)<br>SMR<br>CODE | (3)<br>NSN       | (4)<br>CAGEC | (5)<br>PART<br>NUMBER | (6)<br>DESCRIPTION AND<br>USABLE ON CODE<br>(UOC) | (7)<br>QTY |
|---|--------------------|------------------|--------------|-----------------------|---|------------|
| GROUP 00 MGPTS  |                    |                  |              |                       |   |            |
| Figure 1. Modular<br>General Purpose Tent<br>System (MGPTS) |                    |                  |              |                       |   |            |
| 1   | PDOZZ              | 8340-01-456-3633 | 73005        | 2480107               | MGPTS, Small<br>UOC:FQJ                           | 1          |
| 2   | PDOZZ              | 8340-01-456-3628 | 73005        | 2480108               | MGPTS, Medium<br>UOC:FQK                          | 1          |
| 3   | PDOZZ              | 8340-01-456-3674 | 73005        | 2480109               | MGPTS, Large<br>UOC:FQL                           | 1          |
| END OF FIGURE   |                    |                  |              |                       |   |            |

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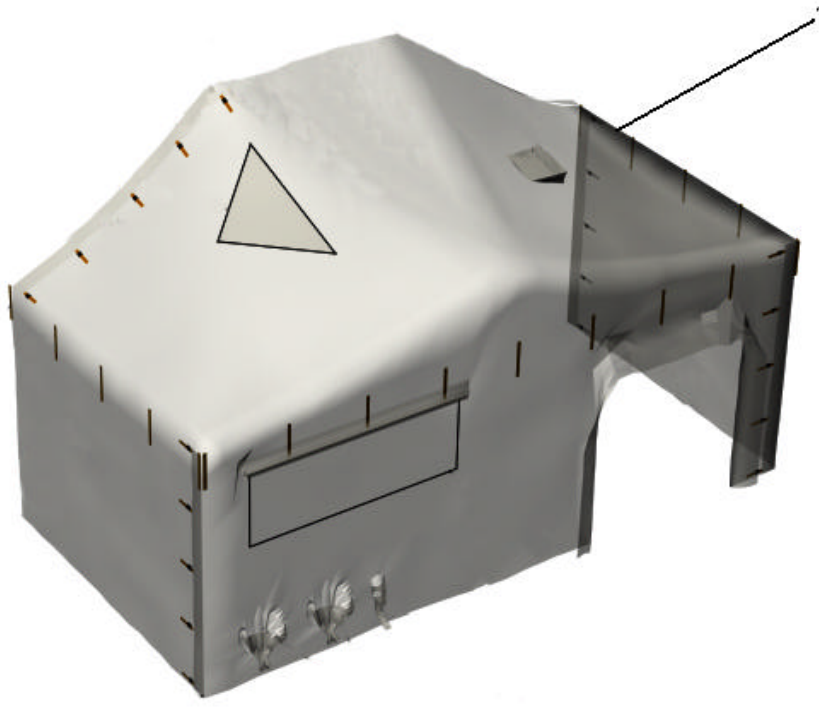


Figure 2. Section Assembly, End Module Fabric

| (1)<br>ITEM<br>NO. | (2)<br>SMR<br>CODE | (3)<br>NSN       | (4)<br>CAGEC | (5)<br>PART<br>NUMBER | (6)<br>DESCRIPTION AND<br>USABLE ON CODE<br>(UOC)   | (7)<br>QTY |
|--------------------|--------------------|------------------|--------------|-----------------------|---|------------|
|                    |                    |                  |              |                       | GROUP 02 SECTION<br>ASSEMBLY, END<br>MODULE FABRIC  |            |
|                    |                    |                  |              |                       | Figure 2. Section<br>Assembly, End Module<br>Fabric |            |
| 1                  | PAOOZ              | 8340-01-477-9569 | 73005        | 2481000               | SECTION ASSEMBLY<br>END MODULE FABRIC               | 2          |
|                    |                    |                  |              |                       | END OF FIGURE                                       |            |

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**GROUP 02 SECTION ASSEMBLY, MID MODULE FABRIC  
REPAIR PARTS LIST**

**0024 00**

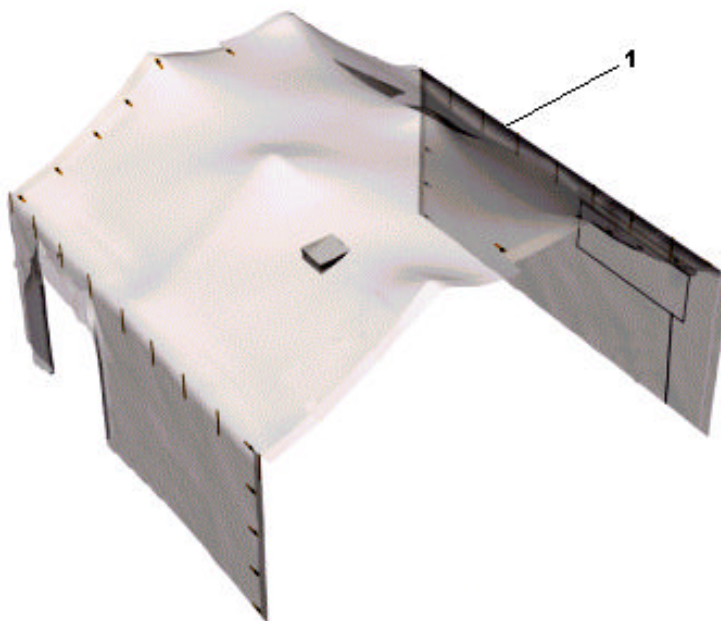


Figure 3. Section Assembly, Mid Module Fabric

| (1)<br>ITEM<br>NO. | (2)<br>SMR<br>CODE | (3)<br>NSN       | (4)<br>CAGEC | (5)<br>PART<br>NUMBER | (6)<br>DESCRIPTION AND<br>USABLE ON CODE<br>(UOC)   | (7)<br>QTY |
|--------------------|--------------------|------------------|--------------|-----------------------|---|------------|
|                    |                    |                  |              |                       | GROUP 02 SECTION<br>ASSEMBLY , MID<br>MODULE FABRIC |            |
|                    |                    |                  |              |                       | Figure 3. Section<br>Assembly, Mid Module<br>Fabric |            |
| 1                  | PAOZZ              | 8340-01-477-9567 | 73005        | 2482000               | SECTION, ASSEMBLY<br>MID MODULE FABRIC              |            |
|                    |                    |                  |              |                       | UOC:FQJ   | 0          |
|                    |                    |                  |              |                       | UOC:FQK   | 1          |
|                    |                    |                  |              |                       | UOC:FQL   | 2          |
|                    |                    |                  |              |                       | END OF FIGURE                                       |            |

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**GROUP 03 TENT POLE (SIDE)  
REPAIR PARTS LIST**

**0025 00**

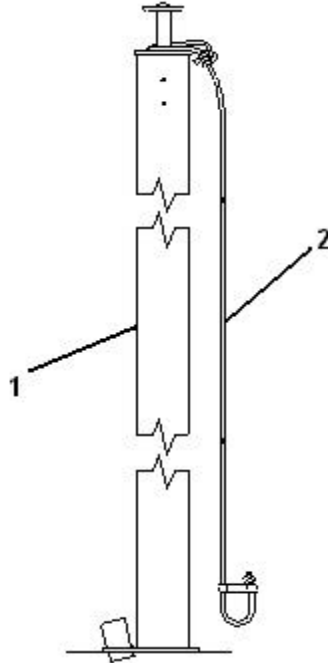


Figure 4. Tent Pole (Side)

| (1)<br>ITEM<br>NO. | (2)<br>SMR<br>CODE | (3)<br>NSN       | (4)<br>CAGEC | (5)<br>PART<br>NUMBER | (6)<br>DESCRIPTION AND<br>USABLE ON CODE<br>(UOC)  | (7)<br>QTY    |
|--------------------|--------------------|------------------|--------------|-----------------------|--|---------------|
|                    |                    |                  |              |                       | GROUP 03 TENT<br>POLE (SIDE)                       |               |
|                    |                    |                  |              |                       | Figure 4. Tent Pole<br>(Side)                      |               |
| 1                  | PAOZZ              | 8340-01-477-9566 | 73005        | 2490000               | POLE, TENT (SIDE)<br>UOC:FQJ<br>UOC:FQK<br>UOC:FQL | 6<br>10<br>14 |
| 2                  | PAOZZ              | 4020-01-477-9670 | 73005        | 2490001               | FIBER ROPE ASSY<br>UOC:FQJ.FQK,FQL                 | 1             |
| END OF FIGURE      |                    |                  |              |                       |  |               |

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**GROUP 04 TENT POLE (END)  
REPAIR PARTS LIST**

**0026 00**

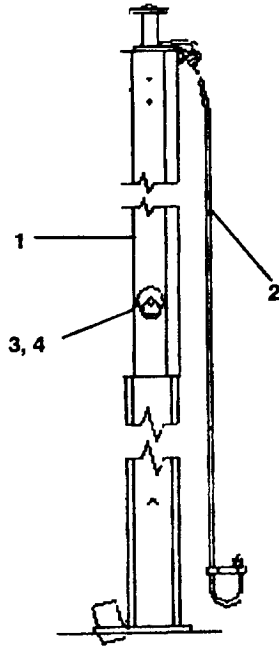


Figure 5. Tent Pole (End)

| (1)<br>ITEM<br>NO. | (2)<br>SMR<br>CODE | (3)<br>NSN       | (4)<br>CAGEC | (5)<br>PART<br>NUMBER | (6)<br>DESCRIPTION AND<br>USABLE ON CODE<br>(UOC) | (7)<br>QTY |
|--------------------|--------------------|------------------|--------------|-----------------------|---|------------|
|                    |                    |                  |              |                       | GROUP 04 TENT POLE<br>(END)                       |            |
|                    |                    |                  |              |                       | Figure 5. Tent Pole<br>(End)                      |            |
| 1                  | PAOZZ              | 8340-01-477-9525 | 73005        | 2500002               | TENT POLE (END)                                   | 2          |
| 2                  | PAOZZ              | 4020-01-477-9670 | 73005        | 2490001               | FIBER ROPE ASSY                                   | REF        |
| 3                  | PAOZZ              | 5365-01-477-9351 | 73005        | 2600011               | RING, RETAINING                                   | 2          |
| 4                  | PAOZZ              | 5315-01-477-9244 | 73005        | 2500009               | PIN, STRAIGHT,<br>HEADED                          | 2          |
| 5                  |                    | DELETED          |              |                       |   |            |
| 6                  |                    | DELETED          |              |                       |   |            |
| END OF FIGURE      |                    |                  |              |                       |   |            |

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**GROUP 05 TENT POLE (Y)  
REPAIR PARTS LIST**

**0027 00**

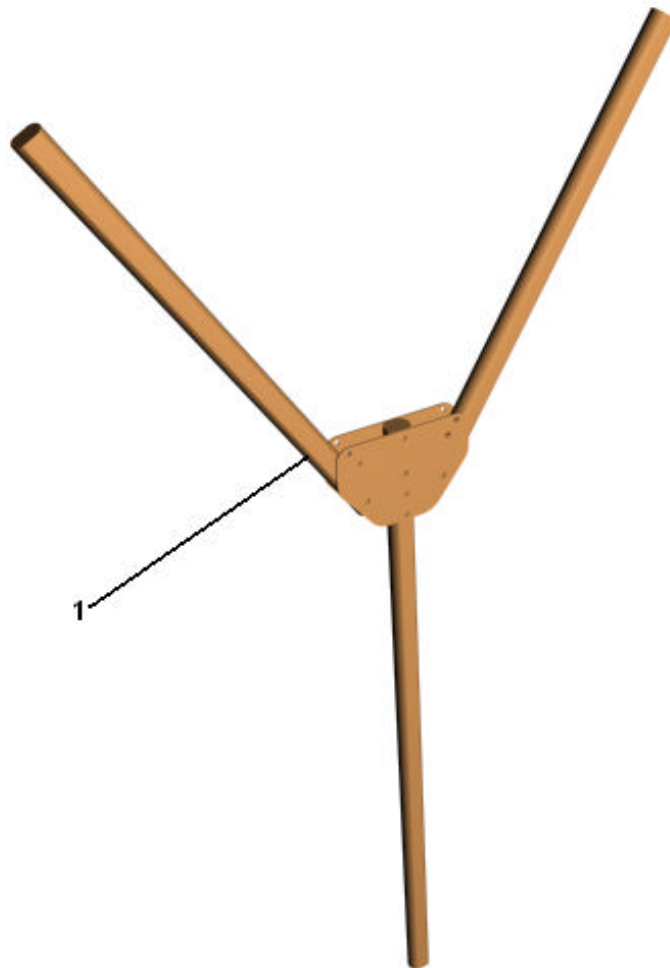


Figure 6. Tent Pole (Y)

| (1)<br>ITEM<br>NO. | (2)<br>SMR<br>CODE | (3)<br>NSN       | (4)<br>CAGEC | (5)<br>PART<br>NUMBER | (6) DESCRIPTION AND<br>USABLE ON CODE<br>(UOC) | (7)<br>QTY    |
|--------------------|--------------------|------------------|--------------|-----------------------|--|---------------|
|                    |                    |                  |              |                       | GROUP 05 TENT POLE (Y)                         |               |
|                    |                    |                  |              |                       | Figure 6. Tent Pole (Y)                        |               |
| 1                  | PAOZZ              | 8340-01-477-9570 | 73005        | 2500020               | POLE, TENT                                     |               |
|                    |                    |                  |              |                       |  | 1             |
|                    |                    |                  |              |                       |  | 3             |
|                    |                    |                  |              |                       |  | 5             |
|                    |                    |                  |              |                       |  | END OF FIGURE |

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**GROUP 06 STAKE, HOLD DOWN, TENT  
REPAIR PARTS LIST**

**0028 00**

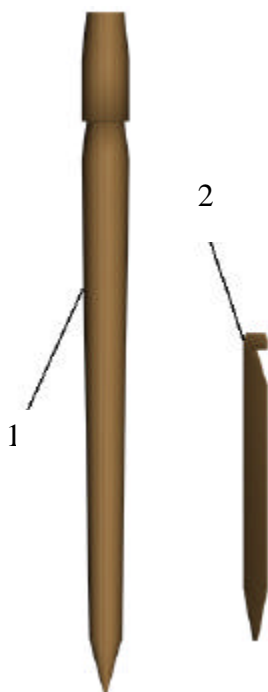


Figure 7. Stake, Hold Down, Tent

| (1)<br>ITEM<br>NO. | (2)<br>SMR<br>CODE | (3)<br>NSN       | (4)<br>CAGEC | (5)<br>PART<br>NUMBER | (6)<br>DESCRIPTION AND<br>USABLE ON CODE<br>(UOC) | (7)<br>QTY |
|--------------------|--------------------|------------------|--------------|-----------------------|---|------------|
|                    |                    |                  |              |                       | GROUP 06 STAKE, HOLD<br>DOWN, TENT                |            |
|                    |                    |                  |              |                       | Figure 7. Stake, Hold<br>Down, Tent               |            |
| 1                  | PAOZZ              | 8340-01-478-0133 | 73005        | 5440664               | STAKE, HOLD DOWN, TENT                            |            |
|                    |                    |                  |              |                       |   | 16         |
|                    |                    |                  |              |                       |   | 24         |
|                    |                    |                  |              |                       |   | 32         |
| 2                  | PAOZZ              | 8340-01-478-0136 | 73005        | 5685537               | STAKE, HOLD DOWN, TENT                            |            |
|                    |                    |                  |              |                       |   | 24         |
|                    |                    |                  |              |                       |   | 36         |
|                    |                    |                  |              |                       |   | 48         |
| END OF FIGURE      |                    |                  |              |                       |   |            |

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**GROUP 07 BAGS, TENT & POLE  
REPAIR PARTS LIST**

**0029 00**

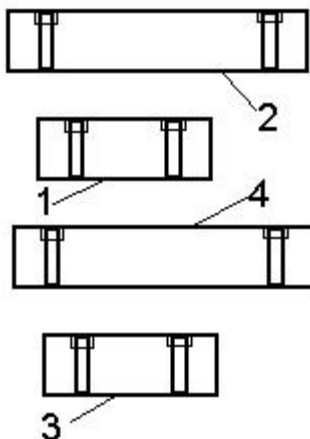


Figure 8. Bags, Tent & Pole

| (1)<br>ITEM<br>NO. | (2)<br>SMR<br>CODE | (3)<br>NSN       | (4)<br>CAGEC | (5)<br>PART<br>NUMBER | (6)<br>DESCRIPTION AND<br>USABLE ON CODE<br>(UOC) | (7)<br>QTY  |
|--------------------|--------------------|------------------|--------------|-----------------------|---|-------------|
|                    |                    |                  |              |                       | GROUP 07 BAGS, TENT &<br>POLE                     |             |
|                    |                    |                  |              |                       | Figure 8. Bags, Tent &<br>Pole                    |             |
| 1                  | PAOZZ              | 8340-01-477-9561 | 73005        | 2480115               | BAG, TENT   | 2           |
| 2                  | PAOZZ              | 8340-01-477-9564 | 73005        | 2480117               | BAG, POLE   | 1           |
| 3                  | PAOZZ              | 8340-01-477-9563 | 73005        | 2480116               | BAG, TENT<br>UOC:FQJ<br>UOC:FQK<br>UOC:FQL        | 0<br>1<br>2 |
| 4                  | PAOZZ              | 8340-01-477-9562 | 73005        | 2480118               | BAG, POLE<br>UOC:FQJ<br>UOC:FQK<br>UOC:FQL        | 0<br>1<br>2 |
| END OF FIGURE      |                    |                  |              |                       |   |             |

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**GROUP 08 BULK ITEMS  
REPAIR PARTS LIST**

**0030 00**

| (1)<br>ITEM<br>NO. | (2)<br>SMR<br>CODE | (3)<br>NSN | (4)<br>CAGEC | (5) PART<br>NUMBER | (6)<br>DESCRIPTION AND<br>USABLE ON CODE<br>(UOC)                                | (7)<br>QTY     |
|--------------------|--------------------|------------|--------------|--------------------|--|----------------|
| GROUP 08 BULK      |                    |            |              |                    |  |                |
| BULK               | PAOZZ              |            | 82399        | 5000-B             | BUCKLE, MALE, 1"<br>UOC:FQJ<br>UOC:FQK<br>UOC:FQL                                | AR<br>AR<br>AR |
| BULK               | PAOZZ              |            | 57771        | 5691812            | GROMMET/SPUR,<br>WASHER, ROLLED<br>RIM, #4<br>UOC:FQJ<br>UOC:FQK<br>UOC:FQL      | AR<br>AR<br>AR |
| BULK               | PAOZZ              |            | 57771        | 671/264            | GROMMET, OVAL,<br>TY VCL3, SI#1<br>MIL-G-16491F<br>UOC:FQJ<br>UOC:FQK<br>UOC:FQL | AR<br>AR<br>AR |
| BULK               | PAOZZ              |            | 34918        | 8218               | VINYL/GREEN/<br>WHITE<br>UOC:FQJ<br>UOC:FQK<br>UOS:FQL                           | AR<br>AR<br>AR |
| BULK               | PAOZZ              |            |              |                    | WEBBING<br>UOC:FQJ<br>UOC:FQK<br>UOC:FQL   | AR<br>AR<br>AR |
| BULK               | PAOZZ              |            | 82399        | 618-000-6024       | DOG BONE,<br>MIL-S-1734<br>UOC:FQJ<br>UOC:FQK<br>UOC:FQL                         | AR<br>AR<br>AR |
| END OF FIGURE      |                    |            |              |                    |  |                |

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)**  
**NATIONAL STOCK NUMBER INDEX**

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0031 00

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| STOCK NUMBERS    | FIG. | ITEM |
|------------------|------|------|
| 4020-01-477-9670 | 5    | 2    |
| 5315-01-477-9244 | 5    | 4    |
| 5365-01-477-9351 | 5    | 3    |
| 8340-01-477-9525 | 5    | 1    |
| 8340-01-477-9561 | 8    | 1    |
| 8340-01-477-9562 | 8    | 2    |
| 8340-01-477-9563 | 8    | 3    |
| 8340-01-477-9564 | 8    | 4    |
| 8340-01-477-9566 | 4    | 1    |
| 8340-01-477-9567 | 3    | 1    |
| 8340-01-477-9569 | 2    | 1    |
| 8340-01-477-9570 | 6    | 1    |
| 8340-01-478-0133 | 7    | 1    |
| 8340-01-478-0136 | 7    | 1    |
| 9999-01-477-9881 | 7    | 2    |

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End of Work Package

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)**  
**PART NUMBER INDEX**

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0032 00

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| PART NUMBER | FIG. | ITEM |
|-------------|------|------|
| 2480115     | 8    | 1    |
| 2480116     | 8    | 3    |
| 2480117     | 8    | 2    |
| 2480118     | 8    | 4    |
| 2481000     | 2    | 1    |
| 2482000     | 3    | 1    |
| 2490000     | 4,5  | 1    |
| 2490001     | 4    | 2    |
| 2500002     | 5    | 1    |
| 2500009     | 5    | 4    |
| 2500020     | 6    | 1    |
| 2600011     | 5    | 3    |
| 5440664     | 7    | 1    |
| 5685537     | 7    | 2    |

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End of Work Package

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII)**

**0033 00**

**INTRODUCTION**

**SCOPE**

This appendix lists components of end item (COEI) and basic issue items (BII) for MGPTS. Use it to help inventory items required for safe and efficient operation.

**GENERAL**

The COEI and BII Lists are divided into the following sections:

- a. Components of MGPTS List. This listing is for informational purposes only, and does not give authority to requisition replacements. These items are part of the end item. They are removed and separately packaged for transportation or shipment only when necessary. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Illustrations are furnished to assist you in identifying the items.
- b. Basic Issue Items List. These are the minimum essential items required to place the MGPTS in operation and to perform emergency repairs. Although shipped separately packaged, BII must be with the MGPTS during operation and whenever it is transferred between property accounts. This manual is your authority to request/requisition replacement BII based on TOE/MTOE authorization of the end item.

**EXPLANATION OF COLUMNS**

The following provides an explanation of columns found in the tabular listings:

- a. Column (1) - Illustration/Item Number. Indicates the number of the illustration in which the item is shown and the number of the item.
- b. Column (2) - National Stock Number. Indicates the National stock number assigned to the item and is used for requisitioning purposes.
- c. Column (3) - Description. Indicates the federal item name and if required a minimum description to identify and locate the item. The last line for each item indicates the Federal Supply Code for Manufacturer (FSCM) or Commercial and Government Entity Code (CAGEC) in parentheses, followed by the part number. If the item you need is not the same for different models of the equipment, a Usable On Code (UOC) will appear on the right side of the description column on the same line as the part number. These codes are identified below:

| <u>UOC</u> | <u>MODEL</u>  |
|------------|---------------|
| FQJ.....   | MGPTS, Small  |
| FQK.....   | MGPTS, Medium |
| FQL.....   | MGPTS, Large  |

Column (4) - Unit of Measure (U/M). Indicates the measure item is issued for the national stock number shown in column (2).

- e. Column (5) - Quantity Required. Indicates the quantity of the item authorized to be used with/on the equipment.

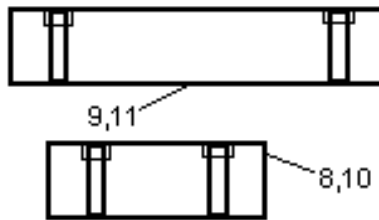
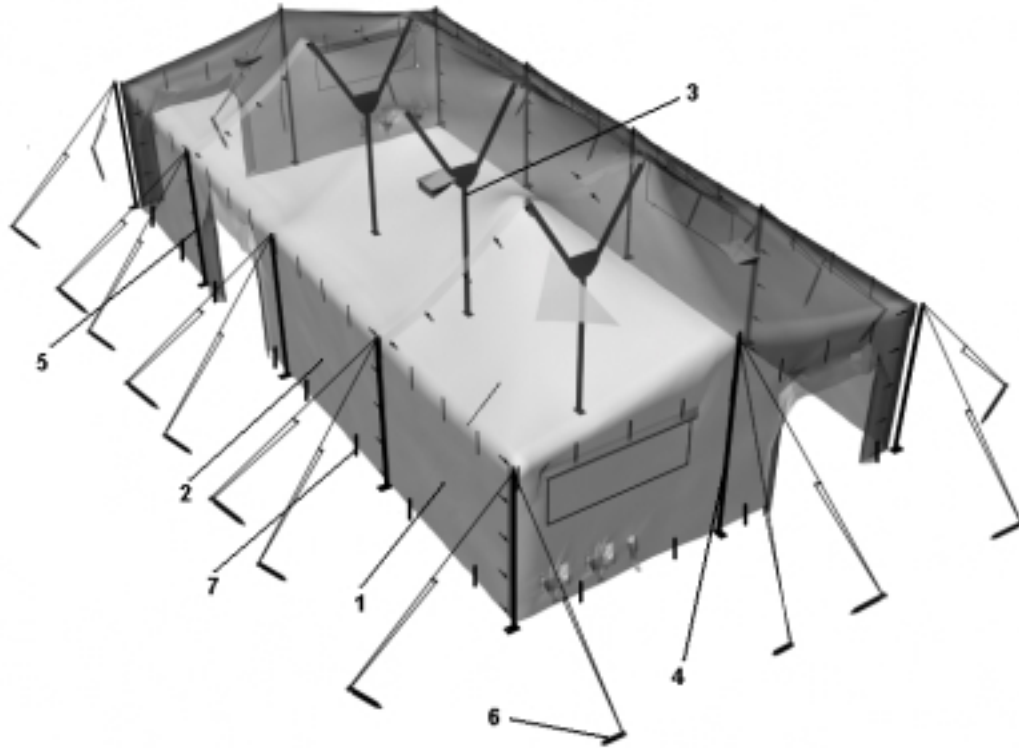
**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII)**

**0033 00**

**Table 0033 00-1 Components of End Item**

| (1)<br>ILLUS/<br>ITEM NO. | (2)<br>NATIONAL STOCK<br>NUMBER | (3)<br>DESCRIPTION, PART NO.,<br>AND CAGEC    | (4)<br>USABLE<br>ON CODE | (5)<br>U/M | (6)<br>QTY/<br>REQD. |
|---------------------------|---------------------------------|---|--------------------------|------------|----------------------|
| 1                         | 8340-01-477-9569                | SECTION ASSEMBLY<br>MOD, END, 2481000 (73005) | FQJ                      | EA         | 2                    |
|                           |                                 |   | FQK                      | EA         | 2                    |
|                           |                                 |   | FQL                      | EA         | 2                    |
| 2                         | 8340-01-477-9567                | SECTION ASSEMBLY MOD<br>END , 2482000 (73005) | FQJ                      | EA         | 0                    |
|                           |                                 |   | FQK                      | EA         | 1                    |
|                           |                                 |   | FQL                      | EA         | 2                    |
| 3                         | 8340-01-477-9570                | POLE ASSY, TENT, 2500020<br>(73005)           | FQJ                      | EA         | 1                    |
|                           |                                 |   | FQK                      | EA         | 3                    |
|                           |                                 |   | FQL                      | EA         | 5                    |
| 4                         | 8340-01-477-9525                | POLE, TENT, 2500002<br>(73005)                | FQJ                      | EA         | 2                    |
|                           |                                 |   | FQK                      | EA         | 2                    |
|                           |                                 |   | FQL                      | EA         | 2                    |
| 5                         | 8340-01-477-9566                | POLE, TENT, 2490000<br>(73005)                | FQJ                      | EA         | 6                    |
|                           |                                 |   | FQK                      | EA         | 10                   |
|                           |                                 |   | FQL                      | EA         | 14                   |
| 6                         | 8340-01-478-0133                | STAKES, HOLD DOWN,<br>TENT, 5440664, (73005)  | FQJ                      | EA         | 16                   |
|                           |                                 |   | FQK                      | EA         | 24                   |
|                           |                                 |   | FQL                      | EA         | 32                   |
| 7                         | 8340-01-478-0136                | STAKES, HOLD DOWN,<br>TENT, 5685537, (73005)  | FQJ                      | EA         | 24                   |
|                           |                                 |   | FQK                      | EA         | 36                   |
|                           |                                 |   | FQL                      | EA         | 48                   |
| 8                         | 8340-01-477-9561                | BAGS, TENT & FRAME<br>PARTS, 2480115, (73005) | FQJ                      | EA         | 2                    |
|                           |                                 |   | FQK                      | EA         | 2                    |
|                           |                                 |   | FQL                      | EA         | 2                    |
| 9                         | 8340-01-477-9564                | BAGS, TENT & FRAME<br>PARTS, 2480117, (73005) | FQJ                      | EA         | 1                    |
|                           |                                 |   | FQK                      | EA         | 1                    |
|                           |                                 |   | FQL                      | EA         | 1                    |
| 10                        | 8340-01-477-9563                | BAGS, TENT & FRAME<br>PARTS, 2480116, (73005) | FQJ                      | EA         | 0                    |
|                           |                                 |   | FQK                      | EA         | 1                    |
|                           |                                 |   | FQL                      | EA         | 2                    |
| 11                        | 8340-01-477-9562                | BAGS, TENT & FRAME<br>PARTS, 2480118, (73005) | FQJ                      | EA         | 0                    |
|                           |                                 |   | FQK                      | EA         | 1                    |
|                           |                                 |   | FQL                      | EA         | 2                    |

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII)**



**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII)****0033 00****BASIC ISSUE ITEM LIST****Table 0033 00-2 Basic Issue Item List**

| (1)<br>Illus/<br>Item No. | (2)<br>National Stock<br>Number | (3)<br>Description<br>(CAGEC) Part Number | UOC               | (4)<br>U/M | (5)<br>Qty. Reqd. |
|---------------------------|---------------------------------|---|-------------------|------------|-------------------|
| 1                         | N/A                             | TM 10-8340-240-12&P                       | FQJ<br>FQK<br>FQL | EA         | 1                 |

End of Work Package

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
ADDITIONAL AUTHORIZATION LIST**

**0034 00**

**INTRODUCTION**

**SCOPE**

This appendix lists additional items that you are authorized for the support of the MGPTS.

**GENERAL**

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

**EXPLANATION OF LISTING**

National stock number, descriptions, and quantities are provided to help you identify and request the additional items you require to support this equipment. If the item required differs for different models of this equipment, see the "USED ON CODE" (UOC) column for the applicable model or models. Codes used are:

UOC.....MODEL  
 FQJ.....MGPTS, Small  
 FQK.....MGPTS, Medium  
 FQL.....MGPTS, Large

Section II. ADDITIONAL AUTHORIZATION LIST

**Table 0034 00-1 Additional Authorization List**

| Item | NSN              | Description, CAGE, Part Number                       | U/M | Qty Auth.                  |
|------|------------------|--|-----|----------------------------|
| 1    | 8340-00-262-5767 | Tentage Repair Kit<br>(81337) 8340-90-CL-POL         | EA  | 1                          |
| 2    | 8340-00-951-6423 | Ground Anchor Kit<br>(81337)                         | EA  | 1                          |
| 3    | 6230-01-242-2016 | Light Set, Portable, Fluorescent,<br>Type I, (81337) | EA  | 2                          |
| 4    | 4520-01-329-3451 | Radiant Type Portable 45K Btu/hr<br>(H-45)           | EA  | 2-FQJ<br>4-FQK<br>6-FQL    |
| 5    | 8340-00-261-7451 | Pin, Tent, Metal, Type II<br>(12" Long) (81337)      | EA  | 24-FQJ<br>36-FQK<br>48-FQL |

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
ADDITIONAL AUTHORIZATION LIST**

**0034 00**

|    |                  |   |    |                            |
|----|------------------|---|----|----------------------------|
| 6  | 8340-00-261-9751 | Pin, Tent, Wood, Size 2 (24" Long)<br>(81337) | EA | 16-FQJ<br>24-FQK<br>32-FQL |
| 7  | 5120-00-926-7116 | Mallet, Wood<br>(81337)                       | EA | 1                          |
| 8  | 8340-01-186-3010 | Vestibule, Frame Assy.<br>(81337)             | EA | 6-FQJ<br>9-FQK<br>12-FQL   |
| 9  | 8340-01-186-3026 | Vestibule, Green<br>(81337)                   | EA | 2-FQJ<br>3-FQK<br>4-FQL    |
| 10 | 8340-01-198-7261 | Vestibule, Tan<br>(81337)                     | EA | 2-FQJ<br>3-FQK             |
| 11 |                  | Stake, Wood<br>(7N088)                        | EA | 16-FQJ<br>24-FQK<br>32-FQL |

End of Work Package

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
EXPENDABLE AND DURABLE ITEMS LIST**

**0035 00**

**INTRODUCTION**

**SCOPE**

This work package lists expendable and durable items that you will need to operate and maintain the MGPTS. This listing is for information only and does not give authority to requisition the listed items. These items are authorized to you by 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.

**EXPLANATION OF COLUMNS**

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 (e.g. "Use dry cleaning solvent, (Item 4, WP 0022 00).").

Column (2). Level. This column identifies the lowest level of maintenance that requires the item.

- C.....Crew/Operator
- O.....Unit Maintenance

Column (3). National Stock Number. This is the NSN assigned to the item. Use it to requisition the item.

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

**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
EXPENDABLE AND DURABLE ITEMS LIST**

**0035 00**

**EXPENDABLE AND DURABLE ITEMS LIST**

**Table 0035 00-1 Expendable and Durable Items List**

| (1)<br>Item<br>No | (2)<br>Level | (3)<br>National Stock<br>Number                          | (4)<br>Description<br>(CAGEC) Part Number   | (5)<br>U/M |
|-------------------|--------------|--|---|------------|
| 1                 | C            | 8520-00-129-0803   | SOAP, TOILET, HAND,<br>CAKE   | BX         |
| 2                 | C            | 7920-00-240-7174   | BRUSH, SCRUB, W/OUT<br>HANDLE   | EA         |
| 3                 | C            |  | GLOVES, LATEX-NITRILE<br>(55799)695456 [SIZE 8-8 1/2]<br>(55799)695457 [SIZE 9-9 1/2]<br>(55799)695458 [SIZE 10-10 1/2] | PR         |
| 4                 | C            | 4240-01-204-2827   | FILTER CARTRIGE<br>(55799)464023  | EA         |
| 5                 | C            | 4240-01-244-2698   | GOGGLES, CHEMICAL<br>SPLASH<br>(55799)695877  | EA         |
| 6                 | C            | 4240-01-315-1864<br>4240-01-315-1863<br>4240-01-315-9013 | RESPIRATOR, AIR FILTERING   | GL         |
| 7                 | C            | 7920-00-205-1711   | WIPING RAGS   | BL         |
| 8                 | O            |  | RAKE, SNOW<br>(62840) 89-416  | EA         |

End of Work Package

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
ALPHABETICAL INDEX**

|  |   |
|--|---|
| <p><b>A</b></p>  |   |
| <p><b>B</b></p> <p>Basic issue items, WP0033 00-4</p>  | <p><b>I</b></p> <p>Improvement recommendations (EIR),<br/>WP0001 00-1</p>   |
| <p><b>C</b></p> <p>Characteristics, capabilities, and features,<br/>equipment, WP0002 00-1<br/>Chart (MAC), maintenance allocation,<br/>WP0020 00-4<br/>Common tools and equipment, WP0020 00-6<br/>Components of end item and basic issue<br/>items list, WP0033 00-2</p> | <p><b>J</b></p> <p><b>K</b></p> <p><b>L</b></p> <p>Light hangers,<br/>-install, WP0004 00-15<br/>-remove, WP0006 00-2<br/>Location and description of major<br/>components, WP0002 00-1</p>   |
| <p><b>D</b></p> <p>Data, equipment, WP0002 00-5<br/>Destruction of Army material to prevent enemy<br/>use, WP0001 00-1<br/>Doors, operating, WP0005 00-1</p>   | <p><b>M</b></p> <p>Maintenance allocation chart (MAC),<br/>WP0020 00-4<br/>Maintenance forms, records, and<br/>reports, WP0001 00-1<br/>Maintenance procedures, WP0013 00<br/>Major components, location and description<br/>of, WP0002 00-1<br/>Material, service upon receipt of,<br/>WP0012 00-1</p> |
| <p><b>E</b></p> <p>End item, components of, WP0033 00-2<br/>Equipment characteristics, capabilities,<br/>and features, WP0002 00-1<br/>Equipment, common tools, WP0020 00-6<br/>Expendable and durable items list,<br/>WP0035 00-2</p>                                     | <p><b>O</b></p> <p>Operations under unusual conditions,<br/>WP0007 00</p>   |
| <p><b>F</b></p> <p>Forms, records and reports, maintenance,<br/>WP0001 00-1</p>  | <p><b>P</b></p> <p>Pole support tent<br/>-setup, WP0004 00-7<br/>-strike, WP0006 00-2<br/>Preparation for storage or shipment,<br/>WP0006 00<br/>Prevent enemy use, destruction of army<br/>material to, WP0001 00-1<br/>Preventive maintenance checks and<br/>services procedures, WP0018 00</p>       |
| <p><b>G</b></p> <p>Grommet maintenance instructions,<br/>WP0016 00-1</p>   | <p><b>R</b></p>   |
| <p><b>H</b></p> <p>Hole and tear repair instructions,<br/>WP0014 00-1</p>  |   |

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**MODULAR GENERAL PURPOSE TENT SYSTEM (MGPTS)  
ALPHABETICAL INDEX**

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Receipt of material, service upon,  
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Removal procedures, WP0006 00  
Reporting equipment improvement  
recommendations (EIR), WP0001 00-1

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Service upon receipt of material,  
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-remove, WP0006 00-1

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Warranty, WP0001 00-2  
Windows, operating, WP0005 00-1

**X**

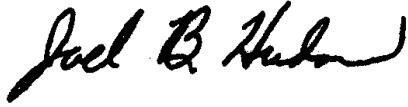
**Y**

**Z**

By Order of the Secretary of the Army:

ERIC K. SHINSEKI  
General, United States Army  
Chief of Staff

Official:

A handwritten signature in black ink that reads "Joel B. Hudson". The signature is written in a cursive style with a large, sweeping initial "J".

JOEL B. HUDSON  
Administrative Assistant to the  
Secretary of the Army  
0017205

**DISTRIBUTION:**

To be distributed in accordance with initial distribution IDN 256618, requirements for TM 10-8340-240-12&P.

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## ***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: amssb-rim-e@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.

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RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



**SOMETHING WRONG** WITH THIS PUBLICATION?

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

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

PFC John DOE  
 Co A 3rd Engineer Bn  
 Ft. Leonardwood, MO 63108

DATE SENT  
 22 August 1992

PUBLICATION NUMBER  
 TM 1-1520-250-10

PUBLICATION DATE  
 15 June 1992

PUBLICATION TITLE  
 Operator's manual MH60K Helicopter

BE EXACT PIN-POINT WHERE IT IS

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

| PAGE NO | PARA-GRAPH | FIGURE NO | TABLE NO |
|---------|------------|-----------|----------|
| 6       | 2-1<br>a   |           |          |
| B1      |            | 4-3       |          |

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

Callout 16 in figure 4-3 is pointed out bolt. In key to figure 4-3, item 16 is called a shim. Please correct one or the other

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

JOHN DOE, PFC (268) 317-7111

SIGN HERE

JOHN DOE *John Doe*

DA FORM 2028-2  
 1 JUL 79

PREVIOUS EDITIONS ARE OBSOLETE.  
 DRSTS-M verprint2, 1 Nov 80

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

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UNITS ADDRESS



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COMMANDER  
U.S. ARMY SOLDIER SYSTEMS COMMAND  
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KANSAS STREET  
NATICK, MA 01760-5000

TEAR ALONG PERFORATED LINE

## The Metric System and Equivalents

### *Linear Measure*

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

### *Weights*

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

### *Liquid Measure*

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

### *Square Measure*

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

### *Cubic Measure*

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

## Approximate Conversion Factors

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

## Temperature (Exact)

|    |                           |                               |                        |    |
|----|---------------------------|-------------------------------|------------------------|----|
| _F | Fahrenheit<br>temperature | 5/9 (after<br>subtracting 32) | Celsius<br>temperature | _C |
|----|---------------------------|-------------------------------|------------------------|----|

**PIN: 078213-001**