

ARMY TM 10-8340-244-13&P

TECHNICAL MANUAL

OPERATOR AND FIELD MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), AIR-SUPPORTED

Type XXXI	NSN 8340-01-558-4701 (Tan) NSN 8340-01-559-3852 (Green)	Type XL	NSN 8340-01-558-8705 (Tan) NSN 8340-01-558-8704 (Green)
Type XXXII	NSN 8340-01-559-3853 (Tan) NSN 8340-01-559-3851 (Green)	Type XLI	NSN 8340-01-558-8707 (Tan) NSN 8340-01-558-8706 (Green)
Type XXXIII	NSN 8340-01-559-3854 (Tan) NSN 8340-01-559-3856 (Green)	Type XLII	NSN 8340-01-558-8709 (Tan) NSN 8340-01-558-8708 (Green)
Type XXXIV	NSN 8340-01-558-4699 (Tan) NSN 8340-01-558-8698 (Green)	Type XLIII	NSN 8340-01-558-8711 (Tan) NSN 8340-01-558-8710 (Green)
Type XXXV	NSN 8340-01-559-3859 (Tan) NSN 8340-01-559-3855 (Green)	Type XLIV	NSN 8340-01-558-8712 (Tan) NSN 8340-01-558-9813 (Green)
Type XXXVI	NSN 8340-01-558-8699 (Tan) NSN 8340-01-559-3858 (Green)	Type XLV	NSN 8340-01-558-8694 (Tan) NSN 8340-01-558-8695 (Green)
Type XXXVII	NSN 8340-01-558-4702 (Tan) NSN 8340-01-558-8701 (Green)	Type XLVI	NSN 8340-01-558-8693 (Tan) NSN 8340-01-558-9818 (Green)
Type XXXVIII	NSN 8340-01-558-4703 (Tan) NSN 8340-01-558-8703 (Green)	Type XLVII	NSN 8340-01-558-8696 (Tan) NSN 8340-01-558-8697 (Green)
Type XXXIX	NSN 8340-01-558-4704 (Tan) NSN 8340-01-558-8702 (Green)		



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

HEADQUARTERS, DEPARTMENT OF THE ARMY

17 JULY 2009

WARNING SUMMARY

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

For First Aid, refer to FM 4-25.11.

EXPLANATION OF SAFETY WARNING ICONS



HEAVY OBJECTS - human figure stooping over heavy object shows physical injury potential from improper lifting technique.



HEAVY PARTS - human figure shows that heavy parts present a danger to life or limb.



FALLING PARTS - arrow bouncing off human shoulder and head shows that falling parts present a danger to life or limb.



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



PRESSURIZED FITTINGS - arrows leaving structure shows that structure under pressure presents a danger to life or limb.



ELECTRICAL - electrical wire to hand with electricity symbol running through hand shows that shock hazard is present.



EXPLOSION - rapidly expanding symbol shows that the material may explode if subjected to high temperatures, sources of ignition or high pressure.



HOT AREA - hand over object radiating heat shows that part is hot and can burn.



VAPOR - human figure in a cloud shows that material vapors present a danger to life or health.

EXPLANATION OF SAFETY WARNING ICONS - CONTINUED



CHEMICAL - drops of liquid on hand shows that the material will cause burns or irritation to human skin or tissue.



SHARP OBJECT - pointed object in hand shows that a sharp object presents a danger to limb.

GENERAL SAFETY WARNINGS DESCRIPTION

WARNING



Use sufficient personnel and equipment when moving heavy components. Components should be lifted using legs not back to prevent injury.

WARNING



Do not lift airbeams by fill ports or inflation hoses. Doing so may result in damage to airbeams and serious injury to personnel.

WARNING



Exercise extreme care when using petroleum products, solvents, and/or adhesives, as these materials are highly flammable. Improper handling may cause injury to personnel.

WARNING



Air compressor heads are exposed when air filter cover is removed and have hot surfaces. Allow the air compressor to cool prior to servicing. Failure to do so may cause burn injury to personnel.

WARNING



Exercise extreme care when installing power distribution and lighting equipment. Voltages dangerous to life may be present. Failure to do so may cause death or serious injury by electrocution.

GENERAL SAFETY WARNINGS DESCRIPTION - CONTINUED

WARNING



Exercise great care when operating the inflation system. The TEMPER, Air-Supported shelter can deflate rapidly, which can cause attached lighting, power or user installed items to fall. Failure to do may cause injury to personnel or damage to equipment.

WARNING



Airbeams are inflated and deflated using pressurized air hoses, which can move about with extreme force when under pressure. Exercise control of air hoses under pressure. Failure to do may cause injury to personnel or damage to equipment.

EXPLANATION OF HAZARDOUS MATERIALS ICONS



EXPLOSION - rapidly expanding symbol shows that the material may explode if subjected to high temperatures, sources of ignition or high pressure.



VAPOR - human figure in a cloud shows that material vapors present a danger to life or health.



CHEMICAL - drops of liquid on hand shows that the material will cause burns or irritation to human skin or tissue.

WARNING



HH-66 Vinyl Cement is highly combustible, DO NOT use near an open flame or spark. Use only in a well ventilated area as the chemical vapors are hazardous. Be sure to protect yourself with gloves and goggles and avoid skin and eye contact. If your skin should come in contact with the vinyl cement, flush the area with water and seek medical attention. Failure to adhere to these warnings may result in injury or death.

LIST OF EFFECTIVE PAGES/WORK PACKAGES

NOTE: Zero in the "Change No." column indicates an original page or work package.

Date of issue for the original manual is:

Original 17 JULY 2009

TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 42 AND TOTAL NUMBER OF WORK PACKAGES IS 66, CONSISTING OF THE FOLLOWING:

Page/WP No.	Change No.	Page/WP No.	Change No.
Front Cover	0	WP 0030 (14 pgs)	0
Blank	0	WP 0031 (6 pgs)	0
Warning summary (3 pgs)	0	WP 0032 (14 pgs)	0
Blank	0	WP 0033 (10 pgs)	0
i-xxxii	0	WP 0034 (14 pgs)	0
Chp 1 title page	0	WP 0035 (8 pgs)	0
Blank	0	WP 0036 (64 pgs)	0
WP 0001 (6 pgs)	0	WP 0037 (2 pgs)	0
WP 0002 (12 pgs)	0	Chp 7 title page	0
WP 0003 (4 pgs)	0	Blank	0
Chp 2 title page	0	WP 0038 (6 pgs)	0
Blank	0	WP 0039 (4 pgs)	0
WP 0004 (8 pgs)	0	WP 0040 (10 pgs)	0
WP 0005 (34 pgs)	0	WP 0041 (6 pgs)	0
WP 0006 (24 pgs)	0	WP 0042 (10 pgs)	0
WP 0007 (34 pgs)	0	WP 0043 (4 pgs)	0
WP 0008 (36 pgs)	0	WP 0044 (8 pgs)	0
Chp 3 title page	0	WP 0045 (6 pgs)	0
Blank	0	WP 0046 (4 pgs)	0
WP 0009 (2 pgs)	0	WP 0047 (20 pgs)	0
Chp 4 title page	0	WP 0048 (14 pgs)	0
Blank	0	Chp 8 title page	0
WP 0010 (10 pgs)	0	Blank	0
WP 0011 (10 pgs)	0	WP 0049 (6 pgs)	0
Chp 5 title page	0	WP 0050 (8 pgs)	0
Blank	0	WP 0051 (4 pgs)	0
WP 0012 (2 pgs)	0	WP 0052 (4 pgs)	0
WP 0013 (4 pgs)	0	WP 0053 (8 pgs)	0
Chp 6 title page	0	WP 0054 (12 pgs)	0
Blank	0	WP 0055 (4 pgs)	0
WP 0014 (6 pgs)	0	WP 0056 (4 pgs)	0
WP 0015 (2 pgs)	0	WP 0057 (2 pgs)	0
WP 0016 (18 pgs)	0	WP 0058 (2 pgs)	0
WP 0017 (12 pgs)	0	WP 0059 (4 pgs)	0
WP 0018 (2 pgs)	0	Chp 9 title page	0
WP 0019 (6 pgs)	0	Blank	0
WP 0020 (2 pgs)	0	WP 0060 (2 pgs)	0
WP 0021 (14 pgs)	0	WP 0061 (4 pgs)	0
WP 0022 (14 pgs)	0	WP 0062 (4 pgs)	0
WP 0023 (12 pgs)	0	WP 0063 (16 pgs)	0
WP 0024 (16 pgs)	0	WP 0064 (2 pgs)	0
WP 0025 (8 pgs)	0	WP 0065 (2 pgs)	0
WP 0026 (22 pgs)	0	WP 0066 (2 pgs)	0
WP 0027 (10 pgs)	0	INDEX-1 - INDEX-4	0
WP 0028 (4 pgs)	0	Inside back cover	0
WP 0029 (6 pgs)	0	Back cover	0

A/B blank

HEADQUARTERS,
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 17 JULY 2009

TECHNICAL MANUAL
OPERATOR AND FIELD MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
FOR

TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), AIR-SUPPORTED

Type XXXI	NSN 8340-01-558-4701 (Tan) NSN 8340-01-559-3852 (Green)	Type XL	NSN 8340-01-558-8705 (Tan) NSN 8340-01-558-8704 (Green)
Type XXXII	NSN 8340-01-559-3853 (Tan) NSN 8340-01-559-3851 (Green)	Type XLI	NSN 8340-01-558-8707 (Tan) NSN 8340-01-558-8706 (Green)
Type XXXIII	NSN 8340-01-559-3854 (Tan) NSN 8340-01-559-3856 (Green)	Type XLII	NSN 8340-01-558-8709 (Tan) NSN 8340-01-558-8708 (Green)
Type XXXIV	NSN 8340-01-558-4699 (Tan) NSN 8340-01-558-8698 (Green)	Type XLIII	NSN 8340-01-558-8711 (Tan) NSN 8340-01-558-8710 (Green)
Type XXXV	NSN 8340-01-559-3859 (Tan) NSN 8340-01-559-3855 (Green)	Type XLIV	NSN 8340-01-558-8712 (Tan) NSN 8340-01-558-8713 (Green)
Type XXXVI	NSN 8340-01-558-8699 (Tan) NSN 8340-01-559-3858 (Green)	Type XLV	NSN 8340-01-558-8694 (Tan) NSN 8340-01-558-8695 (Green)
Type XXXVII	NSN 8340-01-558-4705 (Tan) NSN 8340-01-558-8701 (Green)	Type XLVI	NSN 8340-01-558-8693 (Tan) NSN 8340-01-558-9818 (Green)
Type XXXVIII	NSN 8340-01-558-4703 (Tan) NSN 8340-01-558-8703 (Green)	Type XLVII	NSN 8340-01-558-8696 (Tan) NSN 8340-01-558-8697 (Green)
Type XXXIX	NSN 8340-01-558-4704 (Tan) NSN 8340-01-558-8702 (Green)		

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

ARMY

You can help improve this publication. If you find any errors, or if you would like to recommend any improvements to the procedures in this publication, please let us know. The preferred method is to submit your DA Form 2028 (Recommended Changes to Publications and Blank Forms) through the internet, on the Army Electronic Product Support (AEPS) website. The Internet Address is <https://aeeps.ria.army.mil>. The DA Form 2028 is located under the Public Applications section in the AEPS Public Home Page. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, e-mail, or fax your comments or DA Form 2028 directly to the U.S. Army TACOM Life Cycle Management Command. The postal mail address is U.S. Army TACOM Life Cycle Management Command, ATTN: AMSTA-LCL-MPP/TECH PUBS, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. The e-mail address is tacomlcmc.daform2028@us.army.mil. The fax number is DSN 793-0726 or Commercial (309) 782-0726.

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

TABLE OF CONTENTS

	<u>Page No.</u>	<u>WP Sequence No.</u>
Warning Summary	a	
How to Use This Manual	xxxi	
Chapter 1 – General Information, Equipment Description and Theory of Operation		
General Information.....		WP 0001
Table 1. Nomenclature Cross-Reference List.....	0001-4	
Table 2. List of Acronyms and Abbreviations.....	0001-4	
Equipment Description and Data		WP 0002
Figure 1. Tent, Extendable, Modular, Personnel (TEMPER), Air-Supported.....	0002-1	
Figure 2. Main Body Skin	0002-2	
Figure 3. End Section.....	0002-3	
Figure 4. Main Liner.....	0002-4	
Figure 5. Liner End Section.....	0002-4	
Figure 6. Airbeam Assembly	0002-5	
Figure 7. Manifold Assembly	0002-5	
Figure 8. Pressure Regulator	0002-6	
Figure 9. Air Compressor	0002-7	
Figure 10. Lighting Assembly.....	0002-8	
Figure 11. Power Distribution System.....	0002-9	
Figure 12. Vestibule Assembly.....	0002-10	
Figure 13. External Bracing.....	0002-11	
Theory of Operation		WP 0003
Figure 1. Shelter in Shipping Container	0003-2	
Figure 2. Tent Unfolded/Unrolled	0003-2	
Figure 3. Tent During Inflation.....	0003-2	
Figure 4. Airbeams Lifted Into Position	0003-2	
Figure 5. TEMPER, Air Supported Inflated	0003-3	
Figure 6. Vestibule Installation	0003-3	
Figure 7. Power Distribution and Lighting	0003-3	
Chapter 2 – Operator Instructions		
Description and Use of Operator Controls and Indicators		WP 0004
Figure 1. Air Compressor.....	0004-1	
Table 1. Air Compressor Controls and Indicators	0004-1	

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Figure 2. Inflation System.(Sheet 1 of 2).....	0004-2
Table 2. Inflation System Controls and Indicators.....	0004-2
Figure 2. Inflation System (Sheet 2 of 2).....	0004-3
Table 2. Inflation System Controls and Indicators (Continued).....	0004-3
Figure 3. Power Distribution Box Front Panel.	0004-4
Table 3. Power Distribution Box Front Panel Controls and Indicators.....	0004-4
Figure 4. Power Distribution Box Left Side.....	0004-5
Table 4. Power Distribution Box Left Side Controls and Indicators.....	0004-5
Figure 5. Power Distribution Box Right Side.	0004-6
Table 5. Power Distribution Box Right Side Controls and Indicators.....	0004-6
Figure 6. Lighting System Controls and Indicators.	0004-7
Table 6. Lighting System Controls and Indicators.....	0004-7
Operation Under Usual Conditions - Deployment.....	WP 0005
Figure 1. TEMPER, Air-Supported Site Dimensions.	0005-2
Figure 2. Relationship of External Bracing To Tent Position.....	0005-2
Figure 3. Positioning TEMPER, Air-Supported Package.	0005-3
Figure 4. Untie and Layout Transportation Cover.	0005-4
Figure 5. Remove Transportation Cover.	0005-4
Figure 6. TEMPER AS Deployment Guide.....	0005-5
Figure 7. Unfold TEMPER Air-Supported.....	0005-5
Figure 8. Vestibule End External Bracing Straps.	0005-6
Figure 9. External Bracing Straps to Tent Pin.....	0005-7
Figure 10. Drive 36-Inch Tent Pin.	0005-7
Figure 11. Adjusting Bracing Straps.....	0005-8
Figure 12. Align Lower Ratchet External Bracing Strap.....	0005-8
Figure 13. Tensioning Ratchet Strap Excess.	0005-9
Figure 14. Position Bracing Strap End Rings.	0005-9
Figure 15. Drive 36 Inch Ground Pin.....	0005-10
Figure 16. Remove Slack From Lower Ratchet External Bracing Strap.	0005-10
Figure 17. Vestibule End External Bracing Straps.	0005-11
Figure 18. Attach External Bracing Straps to Tent Pin.....	0005-11
Figure 19. Attach Fixed External Bracing Straps to Tent Pin.....	0005-12

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Figure 20. Align Lower Ratchet External Bracing Straps.....	0005-12
Figure 21. Tensioning Ratchet Strap Excess.....	0005-13
Figure 22. Position Bracing Strap End Rings.....	0005-13
Figure 23. Drive 36 Inch Ground Pin.....	0005-14
Figure 24. Remove Slack from Lower Ratchet External Bracing Strap.....	0005-14
Figure 25. External Bracing Straps Attached and Loose.....	0005-15
Figure 26. Snow Straps.....	0005-16
Figure 27. Attaching Snow Strap Loops to 36 Inch Tent Pins.....	0005-16
Figure 28. Removing Slack from Upper Ratchet Snow Straps.....	0005-17
Figure 29. Tighten Snow Strap Tensioning Ratchet.....	0005-18
Figure 30. Air Compressor Placement.....	0005-19
Figure 31. Connect Air Compressor to Power Source.....	0005-19
Figure 32. Connect Air Compressor Hose to Air Compressor.....	0005-20
Figure 33. Ball Valve Handle Positions.....	0005-21
Figure 34. Airbeam Inflation Ball Valves Open.....	0005-21
Figure 35. Inflation and Deflation Air Hose Ball Valves Closed.....	0005-22
Figure 36. Connect Inflation Air Hose to Air Compressor.....	0005-23
Figure 37. Open Inflation Air Hose Ball Valve.....	0005-23
Figure 38. Connect Pressure Gauge to Deflation Air Hose.....	0005-24
Figure 39. Open Deflation Air Hose Ball Valve.....	0005-24
Figure 40. Upper Ratchet External Bracing Straps Attached and Loose.....	0005-25
Figure 41. Tensioning Ratchet Strap Excess.....	0005-25
Figure 42. Turn on Air Compressor.....	0005-26
Figure 43. Deflation Air Hose Pressure Gauge.....	0005-26
Figure 44. Tent Inflated to 7-10 psi.....	0005-27
Figure 45. Assisting the End Air Beams into Position.....	0005-27
Figure 46. Inflated Airbeams.....	0005-28
Figure 47. Monitor Inflation Pressure.....	0005-28
Figure 48. Turn Off Air Compressor.....	0005-29
Figure 49. Close Inflation Hose Ball Valve.....	0005-29
Figure 50. Disconnect Inflation Air Hose from Adapter Hose.....	0005-30
Figure 51. Close Deflation Air Hose Ball Valve.....	0005-30
Figure 52. Disconnect Pressure Gauge from Deflation Air Hose.....	0005-31

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Figure 53. Disconnect Adapter Hose from Air Compressor.	0005-31
Figure 54. Stow Inflation and Deflation Air Hoses.	0005-32
Figure 55. Airbeam Inflation Pigtail Ball Valves Closed.	0005-33
Figure 56. Door End External Bracing Straps.	0005-34
Figure 57. External Bracing Tensioned.	0005-35
Figure 58. Tighten Upper Ratchet External Bracing Strap.	0005-35
Figure 59. Tighten Lower Ratchet External Bracing Straps.	0005-36
Figure 60. TEMPER Vestibule Kit.	0005-37
Figure 61. Assemble Vestibule Frame.	0005-38
Figure 62. Position Vestibule Frame.	0005-39
Figure 63. Place Center Vestibule Frame Spindle through Grommets.	0005-39
Figure 64. Fasten Hitch Clip Pin to Vestibule Frame Spindle.	0005-40
Figure 65. Place Vestibule Frame Spindles through Grommets.	0005-40
Figure 66. TEMPER Vestibule End Panel.	0005-41
Figure 67. Vestibule End Panel Becket Lace Loops.	0005-41
Figure 68. Attach Vestibule Door Panel.	0005-42
Figure 69. Plastic Tent Slip.	0005-43
Figure 70. Vestibule Guy Line Locations.	0005-43
Figure 71. Staking Vestibule Guy Lines.	0005-44
Figure 72. Release Vestibule Door Clips.	0005-44
Figure 73. Unzip Vestibule Door.	0005-45
Figure 74. Roll Up Vestibule Door.	0005-45
Figure 75. Position Vestibule Frame Leg Base on Mud Flap.	0005-45
Figure 76. Tie Vestibule Frames to Vestibule Material.	0005-46
Figure 77. Position Vestibule Floor Panel.	0005-46
Figure 78. Open TEMPER, Air-Supported Door Panel.	0005-47
Figure 79. Roll Up Tent Door Panel.	0005-47
Figure 80. Side Ropes.	0005-48
Figure 81. Staking Side Rope.	0005-49
Figure 82. Tensioning Side Rope.	0005-49
Figure 83. Mud Flap Grommets.	0005-50
Figure 84. Secure Door Panel.	0005-51
Figure 85. Prepare Door Panel Mud Flap.	0005-51
Figure 86. Secure Door Panel Straps.	0005-52

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Figure 87. Door Panel Secured.....	0005-52
Figure 88. Roll Up Window Cover.....	0005-53
Figure 89. Roll Up Clear Window Panels.....	0005-53
Table 1. Decals, Data Blocks and Instructional Plates.....	0005-54
Operation Under Usual Conditions - Power Distribution and Lighting Kit Installation.....	WP 0006
Figure 1. Power Distribution Kit.....	0006-1
Figure 2. Power Distribution Box Stand Securing Pins.....	0006-2
Figure 3. Position Power Distribution Box Stand.....	0006-3
Figure 4. Upper Power Distribution Box Stand Section.....	0006-3
Figure 5. Power Distribution Box Stand.....	0006-4
Figure 6. Power Distribution Mounting Block.....	0006-4
Figure 7. Power Distribution Box Stand Height Adjustment.....	0006-5
Figure 8. Power Distribution Box Mounting.....	0006-6
Figure 9. Left and Right Lighting Toggle Switches.....	0006-7
Figure 10. Outlet Circuit Breakers.....	0006-7
Figure 11. Primary Power Circuit Breaker.....	0006-8
Figure 12. Power Out Circuit Breaker.....	0006-8
Figure 13. Convenience Outlet Cables.....	0006-9
Figure 14. Layout Power Distribution Cables.....	0006-10
Figure 15. Connect Convenience Outlet Cables.....	0006-10
Figure 16. Remove J8 RIGHT OUTLET 1 Jack Cover.....	0006-11
Figure 17. Connect P8 RIGHT OUTLET 1 to J8 RIGHT OUTLET 1.....	0006-11
Figure 18. Remove J7 LEFT OUTLET 1 Receptacle Jack Cover....	0006-12
Figure 19. Connect P7 LEFT OUTLET 1 Power Distribution Cable to J7 LEFT OUTLET 1.....	0006-12
Figure 20. Attach Left Power Distribution Cable Over Doorway.....	0006-13
Figure 21. Secure Power Distribution Cables With Attached Ties.....	0006-13
Figure 22. Lighting Kit Installed.....	0006-14
Figure 23. Lighting Unit Installation.....	0006-14
Figure 24. Remove Lighting Fixture from Storage Case.....	0006-15
Figure 25. Wrap Connecting Strap Around Lighting Fixture.....	0006-16
Figure 26. Fasten Connector Strap Hook and Loop Tape Sections.....	0006-16
Figure 27. Connect Light Fixture Power Cords.....	0006-17

TABLE OF CONTENTS - Continued

	<u>Page No.</u>	<u>WP Sequence No.</u>
Figure 28. Secure Excess Lighting Power Cord Slack.....	0006-17	
Figure 29. Connect Lighting Unit Plug to Lighting Extension Cord ..	0006-18	
Figure 30. Lighting Unit Installed.....	0006-18	
Figure 31. Remove J5 LEFT LIGHT Jack Cover.....	0006-19	
Figure 32. Connect P5 LEFT LIGHT to J5 LEFT LIGHT.....	0006-19	
Figure 33. Remove J6 RIGHT LIGHT Jack Cover	0006-20	
Figure 34. Connect P6 RIGHT LIGHT to J6 RIGHT LIGHT	0006-20	
Figure 35. Attach Left Lighting Unit Power Extension Cable Over Doorway.....	0006-21	
Figure 36. Power Distribution Inlet Port.....	0006-22	
Figure 37. Remove POWER IN J1 Jack Cover.....	0006-22	
Figure 38. Connect Primary Power Cable to J1 POWER IN.....	0006-23	
Figure 39. Power Distribution Inlet Port.....	0006-24	
Figure 40. Left and Right Lighting Toggle Switches.....	0006-24	
Operation Under Usual Conditions - Preparation For Movement		WP 0007
Figure 1. Convenience Outlet Locations.	0007-2	
Figure 2. Left and Right Lighting Toggle Switches.....	0007-2	
Figure 3. Disconnect Primary Power Cable from J1 POWER IN.	0007-3	
Figure 4. Remove Primary Power Cable.....	0007-3	
Figure 5. Remove Power Distribution and Lighting Cable Plugs.	0007-4	
Figure 6. Remove Power Distribution Convenience Outlet Cables....	0007-5	
Figure 7. Disconnect Lighting Cable Plugs.	0007-6	
Figure 8. Remove Lighting Extension Cables.	0007-6	
Figure 9. Disconnect Lighting Fixtures.....	0007-7	
Figure 10. Lighting Storage Container.	0007-7	
Figure 11. Remove Power Distribution Box.	0007-8	
Figure 12. Remove Power Distribution Box Mounting Pole.	0007-9	
Figure 13. Collapse Power Distribution Box Mounting Pole.....	0007-9	
Figure 14. Roll Down Window Panels.	0007-10	
Figure 15. Tent Mud Flaps.	0007-10	
Figure 16. Remove Side Ropes and Tent Pins.....	0007-11	
Figure 17. Remove Side Ropes and Tent Pins.....	0007-11	
Figure 18. Roll Down Tent Door Panel.....	0007-12	
Figure 19. Remove Vestibule Floor Panel.....	0007-12	
Figure 20. Untie Vestibule Material from Vestibule Frames.....	0007-12	

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Figure 21. Roll Down and Secure Vestibule Door.....	0007-13
Figure 22 Plastic Tent Slip.....	0007-13
Figure 23 Lift Vestibule Material from Frame Spindles.	0007-14
Figure 24 Remove Vestibule End Panel.	0007-14
Figure 25 Remove Hitch Clip Pins from Vestibule Frame Spindles.	0007-14
Figure 26. Remove Vestibule Frame Sections.....	0007-15
Figure 27. Slacken External Bracing Straps.....	0007-16
Figure 28. Airbeam Inflation Valves Open.....	0007-17
Figure 29. Deflation and Inflation Air Hose Ball Valves Closed.	0007-18
Figure 30. Open Deflation Air Hose Ball Valve.	0007-19
Figure 31. Knuckle Over the TEMPER, Air-Supported Shelter.....	0007-20
Figure 32. Airbeam Purge Vacuum Placement.....	0007-21
Figure 33. Connect Airbeam Purge Vacuum Hose Over Deflation Air Hose.....	0007-21
Figure 34. Walking the Airbeams During Deflation.	0007-22
Figure 35. Remove 36 Inch Ground Pins.....	0007-23
Figure 36. First Fold of TEMPER, Air-Supported Shelter.	0007-24
Figure 37. Second Fold of TEMPER, Air-Supported Shelter.	0007-25
Figure 38. Position Transport Cover under TEMPER, Air-Supported.	0007-26
Figure 39. Roll TEMPER, Air-Supported.....	0007-27
Figure 40. Rolled Tent on Transport Cover.....	0007-28
Figure 41. Wrap Transport Cover over Tent	0007-29
Figure 42. Attach Tie Lines to Transport Cover	0007-30
Figure 43. Route Tie Lines on Transport Cover.....	0007-31
Figure 44. Cinch Tie Lines on Transport Cover	0007-32
Figure 45. Tie Off Transport Cover Side Ropes.....	0007-32
Operation Under Usual Conditions - System Configuration Information	WP 0008
Table 1. TEMPER, Air-Supported System Configurations.....	0008-1
Figure 1. Force Provider Type XXXI Billet/Admin Configuration.....	0008-2
Table 2. Force Provider Type XXXI Billet/Admin Configuration Included Components (Tan)	0008-2
Table 3. Force Provider Type XXXI Billet/Admin Configuration Included Components (Green)	0008-3

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Table 4. Force Provider Type XXXI Billet/Admin Configuration	
Components Not Provided But Required.....	0008-3
Figure 2. Force Provider Type XXXII CSS Configuration.	0008-4
Table 5. Force Provider Type XXXII CSS Configuration	
Included Components (Tan)	0008-4
Table 6. Force Provider Type XXXII CSS Configuration	
Included Components (Green)	0008-5
Table 7. Force Provider Type XXXII CSS Configuration	
Components Not Provided But Required	0008-7
Figure 3. Force Provider Type XXXIII EK1 Configuration.	0008-6
Table 8. Force Provider Type XXXIII EK1 Configuration	
Included Components (Tan)	0008-6
Table 9. Force Provider Type XXXIII EK1 Configuration	
Included Components (Green)	0008-7
Table 10. Force Provider Type XXXIII EK1 Configuration	
Components Not Provided But Required.....	0008-7
Figure 4. Force Provider Type XXXIV MWR Configuration.	0008-8
Table 11. Force Provider Type XXXIV MWR Configuration	
Included Components (Tan)	0008-8
Table 12. Force Provider Type XXXIV MWR Configuration	
Included Components (Green)	0008-9
Table 13. Force Provider Type XXXIV MWR Configuration	
Components Not Provided But Required.....	0008-9
Figure 5. Force Provider Type XXXV CBL/EK2 Configuration.....	0008-10
Table 14. Force Provider Type XXXV CBL/EK2 Configuration	
Included Components (Tan)	0008-10
Table 15. Force Provider Type XXXV CBL/EK2 Configuration	
Included Components (Green)	0008-11
Table 16. Force Provider Type XXXV CBL/EK2 Configuration	
Components Not Provided But Required.....	0008-11
Figure 6. Force Provider Type XXXVI EK3 Configuration.....	0008-12
Table 17. Force Provider Type XXXVI EK3 Configuration	
Included Components (Tan)	0008-12
Table 18. Force Provider Type XXXVI EK3 Configuration	
Included Components (Green)	0008-13

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Table 19. Force Provider Type XXXVI EK3 Configuration	
Components Not Provided But Required.....	0008-13
Figure 7. Force Provider Type XXXVII ETS-Kitchen Configuration.	0008-14
Table 20. Force Provider Type XXXVII ETS-Kitchen Configuration	
Included Components (Tan)	0008-14
Table 21. Force Provider Type XXXVII ETS-Kitchen Configuration	
Included Components (Green)	0008-15
Table 22. Force Provider Type XXXVII ETS-Kitchen Configuration	
Components Not Provided But Required.....	0008-15
Figure 8. Force Provider Type XXXVIII ETS-Hygiene	
Configuration.	0008-16
Table 23. Force Provider Type XXXVIII ETS-Hygiene	
Configuration Included Components (Tan)	0008-16
Table 24. Force Provider Type XXXVIII ETS-Hygiene Configuration	
Included Components (Green)	0008-17
Table 25. Force Provider Type XXXVIII ETS-Hygiene Configuration	
Components Not Provided But Required.....	0008-17
Figure 9. Force Provider Type XXXIX ETS-CBL Configuration.	0008-18
Table 26. Force Provider Type XXXIX ETS-CBL Configuration	
Included Components (Tan)	0008-18
Table 27. Force Provider Type XXXIX ETS-CBL Configuration	
Included Components (Green)	0008-19
Table 28. Force Provider Type XXXIX ETS-CBL Configuration	
Components Not Provided But Required.....	0008-19
Figure 10. Force Provider Type XL Cold Weather Configuration.....	0008-20
Table 29. Force Provider Type XL Cold Weather Configuration	
Included Components (Tan)	0008-20
Table 30. Force Provider Type XL Cold Weather Configuration	
Included Components (Green)	0008-21
Table 31. Force Provider Type XL Cold Weather Configuration	
Components Not Provided But Required.....	0008-21
Figure 11. Force Provider Type XLI Billet Configuration.....	0008-22
Table 32. Force Provider Type XLI Billet Configuration	
Included Components (Tan)	0008-22

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Table 33. Force Provider Type XLI Billet Configuration	
Included Components (Green)	0008-23
Figure 12. Force Provider Type XLII ISO End 32 Configuration.	0008-24
Table 34. Force Provider Type XLII ISO End 32 Configuration	
Included Components (Tan)	0008-24
Table 35. Force Provider Type XLII ISO End 32 Configuration	
Included Components (Green)	0008-25
Figure 13. Type XLIII Billet II Configuration.....	0008-26
Table 36. Type XLIII Billet II Configuration Included	
Components (Tan).....	0008-26
Table 37. Type XLIII Billet II Configuration Included	
Components (Green).....	0008-27
Figure 14. Type XLIV ISO Side 32 Configuration.	0008-28
Table 38. Type XLIV ISO Side 32 Configuration	
Included Components (Tan)	0008-28
Table 39. Type XLIV ISO Side 32 Configuration	
Included Components (Green)	0008-29
Figure 15. Type XLV Tricon 32 Configuration.....	0008-30
Table 40. Type XLV Tricon 32 Configuration	
Included Components (Tan)	0008-30
Table 41. Type XLV Tricon 32 Configuration	
Included Components (Green)	0008-31
Figure 16. Type XLVI ISO 21 Configuration.....	0008-32
Table 42. Provider Type XLVI ISO 21 Configuration	
Included Components (Tan)	0008-32
Table 43. Provider Type XLVI ISO 21 Configuration	
Included Components (Green)	0008-33
Figure 17. Type XLVII Billet, Small Configuration.	0008-34
Table 44. Type XLVII Billet, Small Configuration	
Included Components (Tan)	0008-34
Table 45. Type XLVII Billet, Small Configuration	
Included Components (Green)	0008-35

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Chapter 3 – Troubleshooting Index	
Troubleshooting Index.....	WP 0010
Table 1. Troubleshooting Index.....	0009-1
Chapter 4 – Troubleshooting Procedures	
Operator Troubleshooting Procedures.....	WP 0010
Maintainer Troubleshooting Procedures	WP 0011
Chapter 5 – PMCS Maintenance Instructions	
Preventive Maintenance Checks and Services Introduction.....	WP 0012
Preventive Maintenance Checks and Services (PMCS) Procedures	WP 0013
Table 1. Preventive Maintenance Checks and Services for	
TEMPER, Air Supported.....	0013-1
Chapter 6 – Operator Maintenance Instructions	
Service Upon Receipt.....	WP 0014
Figure 1. Turn Off Air Compressor.	0014-3
Figure 2. Reset Quick Disconnect Collars.....	0014-3
Figure 3. Connect Air Compressor to Power Source	0014-4
Figure 4. Open Air Tank Drain Valve	0014-4
Figure 5. Air Compressor On/Auto/Off Lever	0014-5
Figure 6. Close Air Tank Drain Valve	0014-5
Clear Window Panel Service, Replace	WP 0015
Figure 1. Roll Up Window Cover.	0015-1
Figure 2. Remove Defective Clear Window Panel.	0015-2
Figure 3. Install Clear Window Panel	0015-2
End Section Service, Repair, Replace	WP 0016
Figure 1. TEMPER, Air-Supported End Section.....	0016-1
Figure 2. End Section.	0016-2
Figure 3. Measure and Cut Temporary Patch.....	0016-3
Figure 4. Prepare Adhesive Patch Area.....	0016-4
Figure 5. Apply Temporary Patch.....	0016-4
Figure 6. Completed Temporary Patch	0016-5
Figure 7. Measure and Cut Patch Material.....	0016-6
Figure 8. Preparing Damaged Area with Alcohol Prep Patch	0016-7
Figure 9. Preparing Patch with Alcohol Pad.....	0016-7
Figure 10. Trace Patch Perimeter with Pencil.....	0016-7
Figure 11. Apply Adhesive to Damaged Area	0016-8

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Figure 12. Apply Adhesive to Patch	0016-8
Figure 13. Apply Patch to Damaged Area	0016-9
Figure 14. Remove Air Pockets from Patch	0016-9
Figure 15. Applying Permanent Patch to Damaged End Section	0016-10
Figure 16. TEMPER, Air-Supported End Section.....	0016-11
Figure 17. End Section with TEMPER Vestibule Interface	0016-12
Figure 18. Untie Becket Loop Half Hitch Knot.....	0016-12
Figure 19. Untie End Section Becket Lacing.....	0016-13
Figure 20. TEMPER, Air-Supported End Section.....	0016-13
Figure 21. Aligning TEMPER, Air-Supported End Section.....	0016-14
Figure 22. Pull First Becket Lace Through Top Grommet in End Section	0016-14
Figure 23. Pull Second Becket Lace through Grommet and First Becket Lace.....	0016-15
Figure 24. Becket Lacing Sequence	0016-15
Figure 25. Thread last Becket Lace through next to last Loop.....	0016-16
Figure 26. Tie Becket Loop Half-Hitch Knot	0016-16
Main Body Skin Service Repair, Replace	WP 0017
Figure 1. Main Body Skin	0017-1
Figure 2. Main Body Skin	0017-2
Figure 3. Measure and Cut Temporary Patch.....	0017-3
Figure 4. Prepare Adhesive Patch Area.....	0017-4
Figure 5. Apply Temporary Patch.....	0017-4
Figure 6. Completed Temporary Patch	0017-5
Figure 7. Measure and Cut Patch Material.....	0017-6
Figure 8. Preparing Damaged Area with Alcohol Prep Pad	0017-7
Figure 9. Preparing Patch with Alcohol Prep Pad	0017-7
Figure 10. Trace Patch Perimeter with Pencil	0017-7
Figure 11. Apply Adhesive to Damaged Area	0017-8
Figure 12. Apply Adhesive to Patch	0017-8
Figure 13. Apply Patch to Damaged Area.....	0017-9
Figure 14. Remove Air Pockets from Patch	0017-9
Figure 15. Applying Permanent Patch.....	0017-10

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
18-Inch Ground Pin Service, Replace.....	WP 0018
Figure 1. Clean 18-Inch Tent Pin	0018-1
Figure 2. 18-Inch Tent Pin	0018-2
36-Inch Ground Pin Service, Replace.....	WP 0019
Figure 1. Clean 36-Inch Tent Pin	0019-1
Figure 2. Relax Side Rope Tent Slips	0019-2
Figure 3. Slacken External Bracing Straps.....	0019-3
Figure 4. Stake Removal Tool.....	0019-4
Figure 5. Position Bracing Strap End Rings	0019-5
Figure 6. Position Bracing Strap End Rings	0019-5
Shelter Support Rope Service, Replace	WP 0020
Figure 1. Remove Rope from 18 Inch Tent Pin.....	0020-1
Figure 2. Cut and Remove Side Rope Securing Knot.....	0020-2
Figure 3. Remove Side Rope from D-Ring.....	0020-2
Figure 4. Thread New Shelter Support Rope through D-Ring	0020-3
Figure 5. Tie Overhand Knot to Secure Shelter Support Rope.....	0020-4
Liner End Section Service, Repair, Replace.....	WP 0021
Figure 1. Liner End Section	0021-1
Figure 2. Detach Liner End Section from Main Liner.	0021-2
Figure 3. Measure and Cut Temporary Patch.....	0021-3
Figure 4. Prepare Adhesive Patch Area.....	0021-3
Figure 5. Apply Temporary Patch.....	0021-4
Figure 6. Completed Temporary Patch.	0021-4
Figure 7. Detach Liner End Section from Main Liner	0021-5
Figure 8. Measure and Cut Patch Material.....	0021-6
Figure 9. Prepare Adhesive Patch Area.....	0021-6
Figure 10. Preparing Patch with Alcohol Prep Pad.	0021-7
Figure 11. Trace Patch Perimeter with Pencil	0021-7
Figure 12. Apply Adhesive to Damaged Area	0021-8
Figure 13. Apply Adhesive to Patch	0021-8
Figure 14. Apply Patch to Damaged Area.....	0021-9
Figure 15. Remove Air Pockets from Patch	0021-9
Figure 16. Applying Permanent Patch to Damaged Liner End Section	0021-10
Figure 17. Remove Liner End Section	0021-11

TABLE OF CONTENTS - Continued

	<u>Page No.</u>	<u>WP Sequence No.</u>
Figure 18. Lay Out Liner End Section	0021-12	
Figure 19. Attach Liner End Section Hook and Pile Fastening Tapes.....	0021-12	
Figure 20. Installed Liner End Section	0021-13	
Main Liner Service, Repair, Replace.....		WP 0022
Figure 1. Detach Main Liner from Airbeams.....	0022-2	
Figure 2. Measure and Cut Patch	0022-3	
Figure 3. Prepare Adhesive Patch Area.....	0022-3	
Figure 4. Apply Liner Patch.	0022-4	
Figure 5. Main Liner Patch Repair.....	0022-4	
Figure 6. Detach Main Liner from Airbeams.....	0022-5	
Figure 7. Measure and Cut Patch Material.....	0022-6	
Figure 8. Prepare Adhesive Patch Area.....	0022-6	
Figure 9. Preparing Patch with Alcohol Prep Pad	0022-7	
Figure 10. Trace Patch Perimeter with Pencil.....	0022-7	
Figure 11. Apply Adhesive to Damaged Area	0022-8	
Figure 12. Apply Adhesive to Patch	0022-8	
Figure 13. Apply Patch to Damaged Area.....	0022-9	
Figure 14. Remove Air Pockets from Patch	0022-9	
Figure 15. Applying Permanent Patch to Damaged Liner.....	0022-10	
Figure 16. Detach Main Liner Window Openings.....	0022-11	
Figure 17. Untie Main Liner Fastening Ties	0022-12	
Figure 18. Detach Main Liner Fastening Straps.....	0022-12	
Figure 19. Attach Main Liner Fastening Straps.....	0022-13	
Figure 20. Tie Main Liner Fastening Ties.....	0022-14	
Figure 21. Attach Main Liner Window Openings.....	0022-14	
Plenum Service, Repair, Replace		WP 0023
Figure 1. Lay Out Plenum for Patch Repair.	0023-1	
Figure 2. Measure and Cut Patch	0023-2	
Figure 3. Prepare Adhesive Patch Area.....	0023-3	
Figure 4. Apply Plenum Patch.....	0023-3	
Figure 5. Main Liner Patch Repair.....	0023-3	
Figure 6. Lay Out Plenum for Patch Repair	0023-4	
Figure 7. Measure and Cut Patch Material.....	0023-5	
Figure 8. Prepare Adhesive Patch Area.....	0023-5	

TABLE OF CONTENTS - Continued

	<u>Page No.</u>	<u>WP Sequence No.</u>
Figure 9. Preparing Patch with Alcohol Prep Pad	0023-6	
Figure 10. Trace Patch Perimeter with Pencil	0023-6	
Figure 11. Apply Adhesive to Damaged Area	0023-7	
Figure 12. Apply Adhesive to Patch	0023-7	
Figure 13. Apply Patch to Damaged Area	0023-8	
Figure 14. Remove Air Pockets from Patch	0023-8	
Figure 15. Applying Permanent Patch to Damaged Plenum.....	0023-9	
Figure 16. Remove Plenum from Main Liner.....	0023-10	
Figure 17. Lay Out Plenum.....	0023-10	
Figure 18. Prepare Plenum for Installation.....	0023-11	
Figure 19. Attach Plenum to Main Liner	0023-11	
Figure 20. Installed Plenum.....	0023-12	
Airbeam Assembly Repair, Replace		WP 0024
Figure 1. TEMPER, Air-Supported Airbeam Assembly	0024-1	
Figure 2. Ball Valve Handle Positions	0024-2	
Figure 3. Airbeam Pigtail Ball Valves Closed	0024-2	
Figure 4. Disconnect Inflation Air Hose from Airbeam	0024-3	
Figure 5. Open Airbeam Inflation Ball Valve	0024-3	
Figure 6. Cut Airbeam Footer Cable Ties.....	0024-4	
Figure 7. Untie External Tensioning Snout Securing Ties	0024-4	
Figure 8. Disconnect External Tensioning Carabiners.....	0024-5	
Figure 9. Detach Airbeam Attachment Bands.....	0024-5	
Figure 10. Detach Devices at Airbeam Attachment Loops	0024-6	
Figure 11. Airbeam Laid Out Flat	0024-6	
Figure 12. Rolling Up the Airbeam	0024-7	
Figure 13. Position Airbeam Inflation Pigtail Inside Roll.....	0024-7	
Figure 14. Ball Valve Handle Positions	0024-8	
Figure 15. Airbeam Pigtail Ball Valves Closed.....	0024-8	
Figure 16. Unrolling the Airbeam.....	0024-9	
Figure 17. Securing Airbeam Attachment Bands	0024-10	
Figure 18. Connect External Tensioning Carabiners	0024-10	
Figure 19. Wrap and Tie External Tensioning Snouts	0024-11	
Figure 20. Ball Valve Handle Positions	0024-11	
Figure 21. Pass Airbeam Inflation Pigtail to Inflation Ball Valve Access Pocket	0024-12	

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Figure 22. Connect Airbeam Inflation Pigtail to Inflation Manifold Air Hose	0024-12
Figure 23. Airbeam Pigtail Ball Valves Open	0024-13
Figure 24. Airbeam Inflation Ball Valve Open	0024-14
Figure 25. Airbeam Inflation Ball Valve Open	0024-14
Figure 26. Adjust Airbeam Attachment Bands	0024-15
Figure 27. Airbeam Inflation Ball Valve Open	0024-15
Figure 28. Connect Pressure Gauge to Deflation Air Hose	0024-16
Figure 29. Open Deflation Air Hose Ball Valve	0024-16
Figure 30. Monitor Inflation Pressure	0024-17
Figure 31. Secure Airbeam Footers with Cable Ties	0024-17
Manifold Assembly Service, Replace	WP 0025
Figure 1. Manifold Assembly Location	0025-1
Figure 2. Ball Valve Handle Positions	0025-2
Figure 3. Airbeam Pigtail Ball Valves Closed	0025-2
Figure 4. Disconnect Manifold Assembly from Airbeams.....	0025-3
Figure 5. Convenience Outlet Assembly Locations.....	0025-4
Figure 6. Manifold Assembly Location	0025-4
Figure 7. Connect Manifold Assembly to Airbeams	0025-5
Figure 8. Convenience Outlet Assembly Locations.....	0025-6
Figure 9 Airbeam Pigtail Ball Valves Closed	0025-6
Figure 10. Connect Air Pressure Gauge to Deflation Air Hose	0025-7
Figure 11. Open Deflation Air Hose Ball Valve	0025-7
Lighting Assembly , Lighting Strap Assembly, Fluorescent Bulb Repair, Replace	WP 0026
Figure 1. Left and Right Lighting Toggle Switches.....	0026-1
Figure 2. Disconnect Lighting Fixtures	0026-2
Figure 3. Disconnect Light Fixture Power Cords.....	0026-2
Figure 4. Disconnect Lighting Fixture from Main Liner.....	0026-3
Figure 5. Lighting Fixture Fluorescent Bulb Access	0026-4
Figure 6. Remove Wire Tie from Lighting Fixture Small End Cap	0026-4
Figure 7. Loosen Strain Relief Nut	0026-5
Figure 8. Remove End Cap	0026-5
Figure 9. Remove Shock Fitting	0026-6
Figure 10. Grasp Bulb Puller and Remove Fluorescent Bulb	0026-6
Figure 11. Outer Tube, Bulb and Replacement Fluorescent Bulb	0026-7

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Figure 12. Install Bulb Puller on Replacement Fluorescent Bulb	0026-7
Figure 13. Insert Replacement Fluorescent Bulb into Outer Tube	0026-8
Figure 14. Install Shock Fitting	0026-8
Figure 15. Install End Cap on Outer Tube.....	0026-9
Figure 16. Tighten Strain Relief Nut	0026-9
Figure 17. Install Wire Tie on Lighting Fixture Small End Cap.....	0026-10
Figure 18. Left and Right Lighting Toggle Switches.....	0026-10
Figure 19. Wrap Connecting Strap around Lighting Fixture	0026-11
Figure 20. Fasten Connector Strap Hook and Loop Tape Sections.....	0026-12
Figure 21. Connect Light Fixture Power Cords	0026-12
Figure 22. Secure Excess Lighting Power Cord Slack.....	0026-13
Figure 23. Left and Right Lighting Toggle Switches.....	0026-13
Figure 24. Left and Right Lighting Toggle Switches.....	0026-14
Figure 25. Disconnect Light Fixture Power Cords.....	0026-14
Figure 26. Disconnect Lighting Fixture from Main Liner.....	0026-15
Figure 27. Left and Right Lighting Toggle Switches.....	0026-15
Figure 28. Wrap Connecting Strap around Lighting Fixture	0026-16
Figure 29. Fasten Connector Strap Hook and Loop Tape Sections.....	0026-17
Figure 30. Connect Light Fixture Power Cords	0026-17
Figure 31. Secure Excess Lighting Power Cord Slack.....	0026-18
Figure 32. Left and Right Lighting Toggle Switches.....	0026-18
Figure 33. Remove Lighting Strap Assembly	0026-19
Figure 34. Lay Out Lighting Strap Assembly	0026-20
Figure 35. Pass End of Lighting Strap Assembly through Liner End Panel Loop.....	0026-20
Figure 36. Fasten Lighting Strap Assembly through Double D-Ring	0026-21
Figure 37. Pull Lighting Strap Assembly Secure	0026-21
Figure 38. Pass Lighting Strap Assembly through Liner Ceiling Loops.....	0026-22
Figure 39. Lighting Strap Assembly Installed	0026-22

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Lighting Extension Cord Replace	WP 0027
Figure 1. Left and Right Lighting Toggle Switches.....	0027-1
Figure 2. Disconnect Lighting Extension Cord Plug	0027-2
Figure 3. Disconnect End Lighting Unit Plug from Lighting Extension Cord Jack.....	0027-3
Figure 4. Remove Lighting Extension Cord.....	0027-4
Figure 5. Route Lighting Extension Cord	0027-5
Figure 6. Connect End Lighting Unit to Lighting Extension Cord	0027-6
Figure 7. Remove Light Jack Cover	0027-6
Figure 8. Connect Power Extension Cord Plug to Power Distribution Jack.....	0027-7
Figure 9. Secure Lighting Extension Cord.....	0027-8
Figure 10. Secure Doorway Tie.....	0027-9
Figure 11. Left and Right Lighting Toggle Switches.....	0027-10
Power Distribution Stand Strap And Block Assembly, Replace.....	WP 0028
Figure 1. Airbeam Attachment Band over Power Distribution Block ..	0028-2
Figure 2. Power Distribution Strap and Block Assembly.....	0028-2
Figure 3. Install Power Distribution Strap and Block Assembly	0028-3
Figure 4. Attach Airbeam Attachment Band	0028-3
Power Distribution Box Stand, Replace	WP 0029
Figure 1. Remove Power Distribution Box Stand.....	0029-2
Figure 2. Power Distribution Box Stand Securing Pins	0029-2
Figure 3. Position Power Distribution Box Stand.....	0029-3
Figure 4. Upper Power Distribution Box Stand Section	0029-3
Figure 5. Power Distribution Box Stand Footer Section.....	0029-4
Figure 6. Airbeam Power Distribution Box Mounting Block.....	0029-4
Figure 7. Power Distribution Box Stand Height Adjustment.....	0029-5
Power Distribution Box, Replace.....	WP 0030
Figure 1. Convenience Outlet Locations	0030-1
Figure 2. Left and Right Lighting Toggle Switches.....	0030-2
Figure 3. Disconnect Primary Power Cable from J1 POWER IN.....	0030-3
Figure 4. Remove Power Distribution Extension Cable Plugs	0030-3
Figure 5. Disconnect Lighting Cable Plugs	0030-3
Figure 6. Remove Power Distribution Box	0030-4
Figure 7. Power Distribution Box Mounting	0030-5

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Figure 8. Left and Right Lighting Toggle Switches.....	0030-5
Figure 9. Outlet Circuit Breakers	0030-6
Figure 10. Primary Power Circuit Breaker.....	0030-6
Figure 11. Power Out Circuit Breaker	0030-7
Figure 12. Remove J8 RIGHT OUTLET 1 Jack Cover	0030-7
Figure 13. Connect P8 RIGHT OUTLET 1 to J8 RIGHT OUTLET 1	0030-8
Figure 14. Remove J7 LEFT OUTLET 1 Receptacle Jack Cover.....	0030-9
Figure 15. Connect P7 LEFT OUTLET 1 Power Distribution Cable to J7 LEFT OUTLET 1	0030-9
Figure 16. Remove J5 LEFT LIGHT Jack Cover.....	0030-10
Figure 17. Connect P5 LEFT LIGHT to J5 LEFT LIGHT.....	0030-10
Figure 18. Remove J6 RIGHT LIGHT Jack Cover	0030-11
Figure 19. Connect P6 RIGHT LIGHT to J6 RIGHT LIGHT	0030-11
Figure 20. Remove POWER IN J1 Jack Cover.....	0030-12
Figure 21. Connect Primary Power Cable to J1 POWER IN.....	0030-12
Figure 22. Left and Right Lighting Toggle Switches.....	0030-13
Vestibule Assembly Service, Repair, Replace.....	WP 0031
Figure 1. Measure and Cut Temporary Patch.....	0031-2
Figure 2. Prepare Adhesive Patch Area.....	0031-2
Figure 3. Apply Temporary Patch.....	0031-3
Figure 4. Completed Temporary Patch	0031-3
Figure 5. Measure and Cut Patch Material.....	0031-4
Figure 6. Preparing Damaged Area with Alcohol Prep Pad	0031-5
Figure 7. Preparing Patch with Alcohol Prep Pad	0031-5
Figure 8. Trace Patch Perimeter with Pencil.....	0031-5
Figure 9. Apply Adhesive to Damaged Area	0031-6
Figure 10. Apply Adhesive to Patch	0031-6
Figure 11. Apply Patch to Damaged Area.....	0031-7
Figure 12. Remove Air Pockets from Patch	0031-7
Figure 13. Applying Permanent Patch to Damaged End Section	0031-8
Figure 14. Remove Vestibule Floor Panel.....	0031-9
Figure 15. Roll Down Tent Door Panel.....	0031-9
Figure 16. Untie Vestibule Material from Vestibule Frames.....	0031-10

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Figure 17. Roll Down and Secure Vestibule Door.....	0031-10
Figure 18. Plastic Tent Slip.....	0031-11
Figure 19. Lift Vestibule Material from Frame Spindles	0031-11
Figure 20. Remove Vestibule End Panel	0031-12
Figure 21. Remove Hitch Clip Pins from Vestibule Frame Spindles	0031-12
Figure 22. Remove Vestibule Frame Sections.....	0031-12
Figure 23. Untie Becket Loop Half-Hitch Knot.....	0031-13
Figure 24. Untie Vestibule Assembly to End Section Becket Lacing.....	0031-13
Figure 25. TEMPER, Air-Supported End Section.....	0031-14
Figure 26. Pull First Becket Lace through Top Grommet in Vestibule	0031-14
Figure 27. Pull Second Becket Lace through Grommet and First Becket Lace.....	0031-15
Figure 28. Becket Lacing Sequence	0031-15
Figure 29. Thread Last Becket Lace through Next to Last Loop.....	0031-16
Figure 30. Tie Becket Loop Half-Hitch Knot.....	0031-16
Upper Ratchet External Bracing Assembly Service, Replace.....	WP 0032
Figure 1. Upper Ratchet External Bracing Assembly	0032-1
Figure 2. Upper Ratchet External Bracing.....	0032-2
Figure 3. Slacken Upper External Bracing Straps.....	0032-3
Figure 4. Untie External Tensioning Snout Securing Ties	0032-4
Figure 5. Disconnect External Tensioning Carabiners.....	0032-5
Figure 6. Slacken Lower External Bracing Straps.....	0032-6
Figure 7. Stake Removal Tool.....	0032-7
Figure 8. Connect External Tensioning Carabiners	0032-8
Figure 9. Wrap and Tie External Tensioning Snouts	0032-8
Figure 10. Position Bracing Strap End Rings.....	0032-9
Figure 11. Tension Lower Ratchet External Bracing Straps	0032-10
Figure 12. Removing Slack from Upper Ratchet External Bracing Straps.....	0032-11
Figure 13. External Bracing Tensioned.....	0032-12
Figure 14. Tighten Upper Ratchet External Bracing Strap with Tensioning Ratchet.....	0032-12
Figure 15. Tighten Lower Ratchet External Bracing Straps	0032-13

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Lower Ratchet External Bracing Assembly Service, Replace.....	WP 0033
Figure 1. Lower Ratchet External Bracing Assembly.....	0033-1
Figure 2. Upper Ratchet External Bracing.....	0033-2
Figure 3. Slacken Upper External Bracing Straps.....	0033-3
Figure 4. Slacken Lower External Bracing Straps.....	0033-4
Figure 5. Disconnect External Tensioning Carabiners.....	0033-4
Figure 6. 36 Inch Tent Pin Removal.....	0033-5
Figure 7. Disconnect External Tensioning Carabiners.....	0033-6
Figure 8. Position Bracing Strap End Rings.....	0033-6
Figure 9. Tension Lower Ratchet External Bracing Strap.....	0033-7
Figure 10. Removing Slack from Upper External Bracing Straps.....	0033-8
Figure 11. External Bracing Tensioned.....	0033-9
Figure 12. Tighten Upper Ratchet External Bracing Strap.....	0033-9
Figure 13. Tighten Lower Ratchet External Bracing Straps.....	0033-10
Fixed External Bracing Assembly Service, Replace.....	WP 0034
Figure 1. Fixed External Bracing Assembly.....	0034-1
Figure 2. Upper Ratchet External Bracing.....	0034-2
Figure 3. Slacken Upper External Bracing Straps.....	0034-3
Figure 4. Slacken Lower External Bracing Straps.....	0034-4
Figure 5. Untie External Tensioning Snout Securing Ties.....	0034-5
Figure 6. Disconnect External Tensioning Carabiners.....	0034-6
Figure 7. Disconnect External Tensioning Carabiners.....	0034-6
Figure 8. Stake Removal Tool.....	0034-7
Figure 9. Connect Lower Corner Fixed Bracing Carabiners.....	0034-8
Figure 10. Connect External Tensioning Carabiners.....	0034-8
Figure 11. Wrap and Tie External Tensioning Snouts.....	0034-9
Figure 12. Attach External Bracing Straps to Tent Pin.....	0034-9
Figure 13. Drive 36-Inch Tent Pin.....	0034-10
Figure 14. Tension Lower Ratchet External Bracing Straps.....	0034-11
Figure 15. Removing Slack from Upper Ratchet External Bracing Straps.....	0034-12
Figure 16. External Bracing Tensioned.....	0034-13
Figure 17. Tighten Upper Ratchet External Bracing Strap with Tensioning Ratchet.....	0034-13
Figure 18. Tighten Lower Ratchet External Bracing Straps.....	0034-14

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Ratchet Snow Strap Assembly Service, Replace	WP 0035
Figure 1. Upper Ratchet Snow Strap Assembly.....	0035-1
Figure 2. Slacken Snow Straps.....	0035-2
Figure 3. Releasing the Carabineers from the External Tensioning Snout Securing Loop.....	0035-3
Figure 4. Remove Snow Strap Loops from 36 Inch Tent Pins	0035-4
Figure 5. Securing the Ratchet Snow Strap Carabineer	0035-5
Figure 6. Attach Snow Strap Loops to 36 Inch Tent Pins	0035-6
Figure 7. Removing Slack from Upper Ratchet Snow Straps	0035-6
Figure 8. External Bracing Tensioned	0035-7
Figure 9. Tighten Upper Ratchet Snow Strap with Tensioning Ratchet.....	0035-7
Air Compressor Service	WP 0036
Figure 1. Air Compressor Safety Valve Ring.....	0036-1
Figure 2. Air Compressor ON/AUTO/OFF Lever.....	0036-2
Figure 3. Set Regulator Outlet Pressure to Zero.....	0036-2
Figure 4. Disconnect Tools or Accessories from Air Compressor QD Fittings	0036-3
Figure 5. Air Compressor Safety Valve Ring.....	0036-3
Figure 6. Air Tank Drain Valve	0036-3
Figure 7. Air Compressor On/Auto/Off Lever	0036-4
Figure 8. Open Air Tank Drain Valve	0036-4
Figure 9. Air Filter Cover	0036-5
Figure 10. Remove Air Filter from Air Filter Cover	0036-6
Figure 11. Replace Air Filter in Air Filter Cover.....	0036-6
Figure 12. Replace Air Filter Cover	0036-6
Airbeam Purge Vacuum Service, Replace.....	WP 0037
Figure 1. Airbeam Purge Vacuum.....	0037-1
Figure 2. Open Vacuum and Check Filter	0037-2
Figure 3. Repair Airbeam Purge Vacuum Hose.....	0037-2

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Chapter 7 – Service Maintenance Instructions	
Airbeam Ball Valve Replace.....	WP 0035
Figure 1. Ball Valve Handle Positions	0038-1
Figure 2. Remove Quick Disconnect Fitting from Airbeam Ball Valve.....	0038-2
Figure 3. Remove Debris from Quick Disconnect Fitting Threads	0038-2
Figure 4. Remove Airbeam Ball Valve from Inflation Hose Fitting.....	0038-2
Figure 5. Remove Debris from Airbeam Inflation Hose Fitting Threads.....	0038-3
Figure 6. Wrap Airbeam Inflation Hose Fitting Threads with Thread Sealant Tape	0038-4
Figure 7. Install Replacement Airbeam Ball Valve	0038-4
Figure 8. Wrap Quick Disconnect Fitting Threads with Thread Sealant Tape.....	0038-5
Figure 9. Install Quick Disconnect Fitting	0038-5
Figure 10. Replacement Airbeam Ball Valve.....	0038-6
Airbeam Quick Disconnect Fitting Replace.....	WP 0039
Figure 1. Ball Valve Handle Positions	0039-1
Figure 2. Remove Airbeam Quick Disconnect Fitting	0039-2
Figure 3. Wrap Quick Disconnect Fitting Threads with Thread Sealant Tape.....	0039-2
Figure 4. Install Quick Disconnect Fitting	0039-3
Figure 5. Replacement Airbeam Quick Disconnect Fitting.....	0039-3
Pressure Regulator Replace	WP 0040
Figure 1. Ball Valve Handle Positions.	0040-1
Figure 2. Airbeam Pigtail Ball Valves Closed.	0040-1
Figure 3. Pressure Regulator Location.....	0040-2
Figure 4. Manifold Assembly Location.	0040-2
Figure 5. Pressure Regulator Direction of Flow.	0040-3
Figure 6. Disconnect Manifold Assembly Fittings from Pressure Regulator.....	0040-3
Figure 7. Disconnect Outlet Adapter from Pressure Regulator.....	0040-4
Figure 8. Remove Debris from Fitting Threads.	0040-4
Figure 9. Wrap Fitting Threads with Thread Sealant Tape.	0040-5

TABLE OF CONTENTS - Continued

	<u>Page No.</u>	<u>WP Sequence No.</u>
Figure 10. Install Outlet Adapter In Pressure Regulator.	0040-5	
Figure 11. Wrap Hose Fitting Threads with Thread Sealing Tape.	0040-6	
Figure 12. Install Manifold Air Hose Fitting in Pressure Regulator.	0040-6	
Figure 13. Install Pressure Regulator in Manifold Assembly.	0040-7	
Figure 14. Position Manifold Assembly Components.	0040-8	
Figure 15. Securing Manifold Assembly Components.	0040-8	
Figure 16. Airbeam Pigtail Ball Valves Closed.	0040-9	
Figure 17. Connect Air Pressure Gauge to Deflation Air Hose.	0040-9	
Figure 18. Open Deflation Air Hose Ball Valve.	0040-10	
Pressure Relief Valve Replace.....		WP 0041
Figure 1. Ball Valve Handle Positions.	0041-1	
Figure 2. Airbeam Pigtail Ball Valves Closed.	0041-1	
Figure 3. Pressure Relief Valve Location.	0041-2	
Figure 4. Manifold Assembly Location.	0041-2	
Figure 5. Disconnect Pressure Relief Valve from Manifold.	0041-3	
Figure 6. Wrap Fitting Threads with Thread Sealant Tape.	0041-3	
Figure 7. Install Pressure Relief Valve into Manifold Assembly.	0041-4	
Figure 8. Position Manifold Assembly Components.	0041-4	
Figure 9. Securing Manifold Assembly Components.	0041-5	
Figure 10 Airbeam Pigtail Ball Valves Open.	0041-5	
Figure 11. Connect Air Pressure Gauge to Deflation Air Hose.	0041-6	
Figure 12. Open Deflation Air Hose Ball Valve.	0041-6	
Manifold Ball Valve Replace.....		WP 0042
Figure 1. Close all Airbeam Inflation Valves.....	0042-2	
Figure 2. Inflation Manifold	0042-3	
Figure 3. Close Manifold Ball Valve	0042-4	
Figure 4. Remove QD Fitting from Manifold Ball Valve.....	0042-4	
Figure 5. Remove Debris from Quick Disconnect Fitting Threads.....	0042-5	
Figure 6. Remove Manifold Ball Valve from Air Hose Fitting	0042-5	
Figure 7. Remove Debris from Manifold Hose Fitting Threads	0042-6	
Figure 8. Wrap Manifold Hose Fitting Threads with Thread Sealant Tape.....	0042-7	
Figure 9. Install Replacement Manifold Ball Valve	0042-7	
Figure 10. Wrap Quick Disconnect Fitting Threads with Thread Sealant Tape.....	0042-8	

TABLE OF CONTENTS - Continued

	<u>Page No.</u>	<u>WP Sequence No.</u>
Figure 11. Install Quick Disconnect Fitting	0042-8	
Figure 12. Open All Airbeam Inflation Valves.....	0042-9	
Figure 13. Replacement Manifold Ball Valve	0042-10	
Manifold Quick Disconnect Fitting Replace.....		WP 0043
Figure 1. Ball Valve Handle Positions	0043-1	
Figure 2. Remove Manifold Quick Disconnect Fitting	0043-2	
Figure 3. Wrap QD Fitting Threads with Thread Sealant Tape.....	0043-2	
Figure 4. Install Quick Disconnect Fitting	0043-3	
Figure 5. Replacement Manifold Quick Disconnect Fitting	0043-3	
Air Compressor Repair, Replace.....		WP 0044
Figure 1. Air Compressor On/Auto/Off Lever.	0044-1	
Figure 2. Set Regulator Outlet Pressure To Zero.....	0044-2	
Figure 3. Disconnect from Air Compressor QD Fittings.	0044-3	
Figure 4. Air Compressor Safety Valve Ring.....	0044-3	
Figure 5. Air Tank Drain Valve.	0044-3	
Figure 6. Remove Outlet Tube From Check Valve	0044-4	
Figure 7. Remove Pressure Relief Tube	0044-5	
Figure 8. Replace or Clean Check Valve	0044-6	
Figure 9. Verify Check Valve Disc Movement.....	0044-6	
Figure 10. Apply Sealant to Check Valve Threads.....	0044-7	
Figure 11. Reinstall Check Valve with Elbow Fitting	0044-7	
Figure 12. Install Pressure Relief Tube	0044-7	
Figure 13. Install Outlet Tube onto Check Valve.....	0044-8	
Figure 14. Close Air Tank Drain Valve	0044-8	
Air Compressor Hose Assembly Service Repair.....		WP 0045
Figure 1. Isolate Shelter from Air Compressor.	0045-1	
Figure 2. Set Air Compressor On/Auto/Off Lever to OFF.	0045-2	
Figure 3. Disconnect Air Compressor Hose Assembly.	0045-2	
Figure 4. Disconnect Air Compressor Hose from Inflation Hose.....	0045-3	
Figure 5. Remove Manifold Quick Disconnect Fitting.	0045-3	
Figure 6. Wrap Threads with Sealant Tape.....	0045-4	
Figure 7. Connect Air Compressor Hose Assembly Fittings.	0045-4	
Figure 8. Connect Air Compressor Hose To Inflation Hose.	0045-5	
Figure 9. Connect Air Compressor Hose Assembly.....	0045-5	
Figure 10. Set Air Compressor On/Auto/Off Lever To ON.	0045-6	

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Pressure Gauge Replace	WP 0046
Figure 1. Loosen and Remove Pressure Gauge from Female QD Fitting.....	0046-1
Figure 2. Remove Thread Sealant Tape Residue from Female QD Fitting.....	0046-2
Figure 3. Wrap Pressure Gauge Fitting Threads with Thread Sealant Tape.....	0046-2
Figure 4. Install Pressure Gauge	0046-3
Outlet Assembly Test, Repair, Replace	WP 0047
Figure 1. Outlet Assembly Locations.....	0047-1
Figure 2. Outlet Circuit Breakers.....	0047-2
Figure 3. Outlet Assembly Voltage Test.....	0047-3
Figure 4. Remove Power Distribution Cable Plug.....	0047-3
Figure 5. Outlet Continuity Test.....	0047-4
Figure 6. Connect Power Distribution Cable to Power Distribution Box.....	0047-4
Figure 7. Remove Power Distribution Cable Plug.....	0047-5
Figure 8. Remove Outlet Box Cover Plate.....	0047-5
Figure 9. Remove Gasket From Outlet Box.....	0047-6
Figure 10. Unscrew Receptacle.....	0047-6
Figure 11. Transfer Electrical Wires to Replacement Receptacle.....	0047-7
Figure 12. Install Receptacle.....	0047-7
Figure 13. Install Gasket On Outlet Box.....	0047-8
Figure 14. Install Outlet Box Cover Plate.....	0047-8
Figure 15. Connect Power Distribution Cable to Power Distribution Box.....	0047-9
Figure 16. Remove Power Distribution Cable Plug.....	0047-10
Figure 17. Remove Outlet Box Cover Plate	0047-10
Figure 18. Remove Gasket from Outlet Box	0047-11
Figure 19. Unscrew Receptacle	0047-11
Figure 20. Transfer Electrical Wires to Replacement Receptacle....	0047-12
Figure 21. Install Receptacle	0047-12
Figure 22. Install Gasket on Outlet Box.....	0047-13
Figure 23. Install Outlet Box Cover Plate	0047-13

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Figure 24. Connect Power Distribution Cable to Power Distribution Box.....	0047-14
Figure 25. Outlet Assembly Locations.....	0047-15
Figure 26. Remove Power Distribution Cable Plug.....	0047-16
Figure 27. Outlet Assembly Locations.....	0047-16
Figure 28. Disconnect Power Distribution Cable.....	0047-17
Figure 29. Layout Outlet Assembly	0047-17
Figure 30. Connect Power Cable	0047-18
Figure 31. Outlet Circuit Breakers	0047-18
Figure 32. Connect Power Cable to Power Distribution Box.....	0047-19
Power Distribution Box Repair	WP 0048
Figure 1. Replace Receptacle Cover.	0048-1
Figure 2. Power Distribution Box Back Cover	0048-2
Figure 3. Power Distribution Box Wiring.....	0048-2
Figure 4. Circuit Breakers and Toggle Switches	0048-3
Figure 5. Removing Circuit Breaker	0048-3
Figure 6. New Circuit Breaker	0048-4
Figure 7. Attaching Circuit Breaker Wiring	0048-4
Figure 8. Securing Circuit Breaker	0048-5
Figure 9. Reconnecting Heavy Gauge Leads	0048-5
Figure 10. Replace Power Distribution Box Back Cover.....	0048-6
Figure 11. Power Distribution Box Back Cover	0048-7
Figure 12. Removing Power Outlet Receptacle	0048-7
Figure 13. Removing Circuit Breaker	0048-8
Figure 14. Disconnecting Circuit Breaker Wiring.....	0048-8
Figure 15. New Circuit Breaker	0048-9
Figure 16. Connecting Circuit Breaker Wiring.....	0048-9
Figure 17. Installing Circuit Breaker	0048-10
Figure 18. Replace Power Distribution Box Back Cover.....	0048-10
Figure 19. Removing GFCI Receptacle	0048-11
Figure 20. Separate GFCI Receptacle Cover	0048-11
Figure 21. Removing GFCI Receptacle	0048-12
Figure 22. Installing GFCI Receptacle	0048-12
Figure 23. Installing Screws in GFCI Receptacle Cover.....	0048-13
Figure 24. Install GFCI Receptacle in Power Distribution Box.....	0048-13

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Chapter 8 - Parts Information	
Repair Parts and Special Tools List (RPSTL), Introduction	WP 0049
Table 1. SMR Code	0049-1
Group 01 Outer Skin	WP 0050
Figure 1. Skin, Outer (Sheet 1 of 3)	0050-2
Figure 1. End Section (Sheet 2 of 3)	0050-3
Figure 1. Pins (Sheet 3 of 3).....	0050-4
Group 02 Assembly, Liner.....	WP 0051
Figure 2. Assembly, Liner (Sheet 1 of 2).....	0051-2
Figure 2. Assembly, Liner (Sheet 2 of 2).....	0051-3
Group 03 Assembly, Airbeam	WP 0052
Figure 3. Assembly, Airbeam	0052-2
Group 04 System, Inflation	WP 0053
Figure 4. System, Inflation (Four Airbeam) (Sheet 1 of 5)	0053-1
Figure 4. System, Inflation (Four Airbeam) (Sheet 2 of 5)	0053-2
Figure 4. System, Inflation (Three Airbeam) (Sheet 3 of 5)	0053-3
Figure 4. System, Inflation (Three Airbeam) (Sheet 4 of 5)	0053-4
Figure 4. System, Inflation (Purge Vacuum and Compressor) (Sheet 5 of 5).....	0053-5
Group 05 System, Electrical.....	WP 0054
Figure 5. System, Electrical (Lighting) (Sheet 1 of 6).....	0054-1
Figure 5. System, Electrical (Convenience Outlets) (Sheet 2 of 6)....	0054-2
Figure 5. System, Electrical (Power Distribution Box Stand) (Sheet 3 of 6).....	0054-3
Figure 5. System, Electrical (Power Distribution Box) (Sheet 4 of 6).....	0054-4
Figure 5. System, Electrical (Power Distribution Box) (Sheet 5 of 6).....	0054-5
Figure 5. System, Electrical (Connecting Cables) (Sheet 6 of 6).....	0054-6
Group 06 Assembly, Vestibule.....	WP 0055
Figure 6. Assembly, Vestibule.....	0055-2
Group 07 Bracing, External.....	WP 0056
Figure 7. Bracing, External	0056-2
Group 99 Bulk Material List.....	WP 0057
National Stock Number Index.....	WP 0058
Part Number Index	WP 0059

TABLE OF CONTENTS - Continued

	<u>WP Sequence No.</u>
	<u>Page No.</u>
Chapter 9 - Supporting Information	
References	WP 0060
Maintenance Allocation Chart (MAC) Introduction	WP 0061
Maintenance Allocation Chart (MAC)	WP 0062
Table 1. MAC for TEMPER, Air Supported Shelter	0062-1
Table 2. Tools and Test Equipment for TEMPER, Air Supported	0062-4
Table 3. Remarks for TEMPER, Air Supported Shelter	0062-4
Components Of End Item (COEI) and Basic Issue Items (BII) Lists	WP 0063
Table 1. Components of End Item (COEI) List	0063-3
Table 2. Basic Issue Items (BII)	0063-16
Expendable and Durable Items List	WP 0064
Table 1. Expendable and Durable Items List	0064-1
Tool Identification List	WP 0065
Table 1. Tools Identification List	0065-1
Mandatory Replacement Parts	WP 0066
Table 1. Mandatory Replacement Parts List	0066-1
Alphabetical Index	

HOW TO OBTAIN TECHNICAL MANUALS

When a new system is introduced to the Army inventory, it is the responsibility of the receiving units to notify the Unit Publications Clerk that a Technical Manual is available for the new system. Throughout the life cycle of the new system, the Publications Proponent will also provide updates to the Technical Manual.

To receive new Technical Manuals or change packages to fielded Technical Manuals, provide the Unit Publications Clerk the full Technical Manual number, title, date of publication, and number of copies required. The Unit Publications Clerk will then justify the request through the Unit Publications Officer. When the request is approved, DA Form 12-R is used to order the Technical Manual from the Army Publishing Directorate (APD). Obtain the form and request a publications account from the APD Web site at <http://www.apd.army.mil>. Once on the Website click on the "Orders/Subscriptions/Reports" tab. From the dropdown menu, select "Establish an Account," then select "Tutorial" and follow the instructions in the tutorial presentation.

Complete information for obtaining Army publications can be found in DA PAM 25-33.

HOW TO USE THIS MANUAL

In this manual, primary chapters appear in upper case/capital letters; work packages are presented in numeric sequence, e.g., 0001, 0002; paragraphs within a work package are not numbered and are presented in a titled format. For a first level paragraph, titles are in all upper case/capital letters, e.g., FRONT MATTER. Subordinate paragraph titles will have the first letter of the first word of each principle word all upper case/capital letters, e.g., Manual Organization and Page Numbering System. The location of additional material that must be referenced is clearly marked. Illustrations supporting maintenance procedures/text are located underneath, or as close as possible to, their referenced paragraph.

FRONT MATTER. Front matter consists of front cover, warning summary, title block, table of contents, and how to use this manual page.

CHAPTER 1 – GENERAL INFORMATION, EQUIPMENT DESCRIPTION, AND THEORY OF OPERATION. Chapter 1 contains introductory information on the TEMPER, Air-Supported and its associated equipment, as well as theory of operation.

CHAPTER 2 – OPERATOR INSTRUCTIONS. Chapter 2 contains shelter operating procedures.

CHAPTER 3 – TROUBLESHOOTING MASTER INDEX. Chapter 3 contains the index of troubleshooting symptoms to troubleshoot the TEMPER, Air-Supported.

CHAPTER 4 – TROUBLESHOOTING PROCEDURES. Chapter 4 provides the troubleshooting procedures to identify symptoms, and perform corrective actions.

CHAPTER 5 – PMCS INSTRUCTIONS. Chapter 5 contains Preventive Maintenance Checks and Services procedures.

CHAPTER 6 – OPERATOR MAINTENANCE INSTRUCTIONS. Chapter 6 provides maintenance procedures authorized at the operator level.

CHAPTER 7 – SERVICE MAINTENANCE INSTRUCTIONS. Chapter 7 provides maintenance procedures authorized at the service level.

CHAPTER 8 – PARTS INFORMATION. Chapter 8 contains Repair Parts and Special Tools List (RPSTL), national stock number index and part number index.

CHAPTER 9 – SUPPORTING INFORMATION. Chapter 9 contains references, maintenance allocation chart and expendable and durable items list.

REAR MATTER. Rear matter consists of alphabetical index, DA Form 2028, authentication page, and back cover.

HOW TO USE THIS MANUAL - CONTINUED

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

Finding Information. The table of contents permits the reader to find information in the manual quickly. The reader should start here first when looking for a specific topic. The table of contents lists the topics, figures, and tables contained within each chapter and the work package sequence number where it can be found.

Example: If the reader were looking for the Preparation for Movement Procedures for the TEMPER, Air-Supported, which is an Operation topic, the table of contents indicates that preparation for movement information and procedures can be found in chapter 2. Scanning down the listings for chapter 2, information on how to take down the TEMPER, Air-Supported can be found in WP 0007, Preparation for Movement, (i.e. Work Package 0007).

An Alphabetical Index can be found at the back of the manual; specific topics are listed with the corresponding work package number.

CHAPTER 1

GENERAL INFORMATION, EQUIPMENT DESCRIPTION, AND THEORY OF OPERATION FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), AIR- SUPPORTED

OPERATOR AND FIELD MAINTENANCE**GENERAL INFORMATION**

SCOPE**Type of Manual**

This technical manual provides operator and field maintenance instructions for the TEMPER, Air-Supported. This manual also provides a Repair Parts and Special Tools List (RPSTL), located in WP 0049 through WP 0059.

Equipment Name

Tent, Extendable, Modular, Personnel (TEMPER), Air-Supported

Purpose of Equipment

The TEMPER, Air-Supported provides a strong and durable shelter that is rapidly deployed in the field. The TEMPER, Air-Supported series offers a wide array of size, configuration, and complexing options for various field applications.

MAINTENANCE FORMS, RECORDS, AND REPORTS

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your TEMPER, Air-Supported needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance.

If you have Internet access, the easiest and fastest way to report problems or suggestions is to go to <https://aeps.ria.army.mil/aepspublic.cfm> (scroll down and choose the "Submit Quality Deficiency Report" bar). The Internet form lets you choose to submit an Equipment Improvement Recommendation (EIR), a Product Quality Deficiency Report (PQDR) or a Warranty Claim Action (WCA).

You may also submit your information using an SF 368 (Product Quality Deficiency Report). You can send your SF 368 via e-mail, regular mail, or facsimile using the addresses/facsimile numbers specified in DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual. We will send you a reply.

CORROSION PREVENTION AND CONTROL (CPC)

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

Corrosion specifically occurs with metals. It is an electrochemical process that causes the degradation of metals. It is commonly caused by exposure to moisture, acids, bases, or salts. An example is the rusting of iron. Corrosion damage in metals can be seen, depending on the metal, as tarnishing, pitting, fogging, surface residue, and/or cracking.

Plastics, composites, and rubbers can also degrade. Degradation is caused by thermal (heat), oxidation (oxygen), solvation (solvents), or photolytic (light, typically UV) processes. The most common exposures are excessive heat or light. Damage from these processes will appear as cracking, softening, swelling, and/or breaking.

CORROSION PREVENTION AND CONTROL - CONTINUED

SF Form 368, Product Quality Deficiency Report should be submitted to the address specified in DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual.

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE**Objective**

Methods of destruction used to inflict damage on equipment should make it impossible to restore equipment to a usable-condition in a combat zone, by either repair or cannibalization.

Authority

Destruction of equipment that is in imminent danger of capture by an enemy is a command decision that must be made by a battalion or higher commander, or the equivalent.

Implementation Plan

All units that possess equipment should have a plan for the implementation of destruction procedures.

Training

All personnel who use or perform such functions as packing, maintenance, or storage of equipment should receive thorough training on equipment destruction procedures and methods. The destruction methods demonstrated during training should be simulated. Upon completion of training, all applicable personnel should be thoroughly familiar with equipment destruction methods and be capable of performing destruction without immediate reference to any publication.

Specific Methods

Specific methods of destroying Army materiel to prevent enemy use shall be by mechanical means, fire, or by use of natural surroundings.

Destruction by Mechanical Means

Equipment metal assemblies, parts, and packing aids shall be destroyed using hammers, bolt cutters, files, hacksaws, drills, screwdrivers, crowbars, or other similar devices used to smash, break, bend, or cut.

WARNING

Exercise extreme care when using petroleum products to destroy equipment by fire, as these materials are highly flammable. Improper handling may cause injury to personnel.

Destruction by Fire

Items that can be destroyed by fire shall be burned. The destruction of equipment by use of fire is an effective method of destroying low-melting-point metal items (e.g., side rails, threaded portions of nuts and bolts, and platforms). However, mechanical destruction should be completed first, whenever possible, before initiating destruction by fire. When items to be destroyed are made of metal, textile materials (or some comparable low combustible material) they should be packed under and around the items, then soaked with a flammable petroleum product and ignited. Proper concentration of equipment that is suitable for burning will provide a hotter and more destructive fire.

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE - CONTINUED**Destruction by Use of Natural Surroundings**

Small vital parts of assemblies that are easily accessible may be disposed of as follows: Disposal or denial of equipment to an enemy may be accomplished through use of natural surroundings. Accessible vital parts of assemblies may be removed and scattered through dense foliage, buried in dirt or sand, or thrown into a lake, stream, or other body of water. Total submersion of equipment in a body of water will provide water damage as well as concealment. Salt water will inflict extensive damage to equipment.

PREPARATION FOR STORAGE AND SHIPMENT

To prepare the TEMPER equipment for storage, clean and dry the fabric sections and other components as needed. Perform operator PMCS as specified in WP 0013.

Pack the main skin, end sections, and airbeams in accordance with WP 0007 entitled Preparation for Movement. Pack all ancillary components in their respective storage cases or containers. Place all packed components onto a wooden pallet and store in a building, shed, or other dry place. Store the light set in its storage container.

Special Instructions for Administrative Storage

Placement of equipment in administrative storage should be for short periods of time when a shortage of maintenance resources exist. Items should be in mission readiness within 24 hours or within the time factors as determined by the directing authority. Appropriate maintenance records will be kept during storage.

Before placing equipment in administrative storage, current maintenance services and Equipment Serviceability Criteria (ESC) evaluations should be completed, shortcomings and deficiencies should be corrected, and all Modification Work Orders (MWOs) should be applied.

Storage Site Selection. Inside storage is preferred for items selected for administrative storage. If inside storage is not available trucks, vans, CONEX or other containers may be used.

Preservation. If the TEMPER components are to be stored without regular PMCS performed, consult TM 38-470 for preservation requirements.

Preparation for Storage. Prepare the TEMPER, Air-Supported for shipment by packing components into the wooden crate, using the original packing material, in which they were received. Strap crates onto wooden pallet.

WARRANTY INFORMATION

The TEMPER, Air-Supported shelter is warranted by the manufacturer Vertigo Inc., against defects in material and workmanship under normal use for a period of one year from date of initial shipment from their factory, and for a period of 90 days for repairs. Vertigo will repair or replace, at its option, defective products during the warranty period provided that such defects developed under normal and proper use with no user alteration. Transportation costs to Vertigo's Lake Elsinore, California facility are the responsibility of the buyer. Return costs within CONUS will be paid by Vertigo.

NOMENCLATURE CROSS-REFERENCE LIST

Table 1. Nomenclature Cross-Reference List.

Common Name	Official Nomenclature
GFCI Outlet	electrical receptacle connector (ground fault protected)
Ground Fault Circuit Interrupter Outlet	electrical receptacle connector (ground fault protected)
Main Liner	Thermal Tent Liner
Power Distribution Box Mounting Pole	Distribution Box Stand (Modified)
TEMPER, Air-Supported	Tent, Extendable, Modular, Personnel (TEMPER), Air-Supported
Thermal Liner	Thermal Tent Liner

LIST OF ABBREVIATIONS/ACRONYMS

Table 2. List of Abbreviations/Acronyms.

Acronym/Abbreviation	Meaning
AGL	above ground level
BER	beyond economical repair
BOI	basis of issue
C	Centigrade
CAGEC	commercial and government entity code
CBL	Containerized Batch Laundry
cm.	centimeter
CONEX	container express (military shipping container)
CPC	corrosion prevention and control
CSS	Containerized Shower System
CTA	Common Table of Allowance
DA	Department of the Army
dBA	A-weighted decibels
Dtd.	dated
EA	each
ECU	Environmental Control Unit
EIR	Equipment Improvement Recommendation
EK	Electric Kitchen
ETS	Expeditionary TRICON System
F	Fahrenheit
FSC	Federal Supply Classification
ft.	feet
GFCI	ground fault circuit interrupter
GFE	government furnished equipment

LIST OF ABBREVIATIONS/ACRONYMS - CONTINUED

Table 2. List of Abbreviations/Acronyms - Continued.

Acronym/Abbreviation	Meaning
HVAC	heating, ventilation and air conditioning
IAW	in accordance with
ID	identification
in.	inches
ISO	International Standards Organization
Lbs	pounds
LG	long
Ltrs	liters
MAC	Maintenance Allocation Chart
MAM	Maintenance Advisory Message
MOS	Military Occupational Specialty
MTG	mounting
MTOE	Modified Table of Organization and Equipment
MWO	Modification Work Order
MWR	Morale, Welfare and Recreation
NEMA	National Electrical Manufacturers Association
NF	national fine (thread)
NIIN	National Item Identification Number
NLT	no later than
NMP	National Maintenance Point
No.	number
NSN	National Stock Number
OD	olive drab
oz.	ounces
PIS	Placed In Service
PMCS	Preventive Maintenance Checks and Services
PQDR	Product Quality Deficiency Report
psi	pounds per square inch
PVC	polyvinyl chloride
QD	quick disconnect
RPSTL	Repair Parts and Special Tools List
SF	Standard Form
SMR	Source, Maintenance and Recoverability
SOUM	Safety Of Use Message
TAMMS	The Army Maintenance Management System
TB	Technical Bulletin
TDA	Table of Distribution and Allowances
TDR	Transportation Discrepancy Report
TEMPER	Tent, Extendable, Modular, Personnel
TMDE	Test Measurement and Diagnostic Equipment
UOC	Usable on Code
VAC	volts of alternating current
WP	Work Package

QUALITY OF MATERIAL

Material used for replacement, repair, or modification must meet the requirements of this manual. If quality of material is not stated in this manual, the material must meet the requirements of the drawings, standards, specifications, or approved engineering change proposals applicable to the subject equipment.

SAFETY, CARE AND HANDLING

The following subparagraphs summarize the safety, care and handling requirements for the TEMPER, Air-Supported.

Safety

Use care in handling packed parachutes as carelessness could result in injury or damage to equipment.

Care and Handling

Every effort shall be made to protect the shelter from oil, grease, and acid. An unassembled TEMPER, Air-Supported should be placed in a storage shipping container. Air-Supported TEMPERs should be stored in dry, well-ventilated location and protected from pilferage, dampness, fire, dirt, insects, rodents, and direct sunlight.

COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE), CTA 50-970, Expendable/Durable Items (Except Medical, Class V, Repair Parts and Heraldic Items), CTA 50-909, Field and Garrison Furnishings and Equipment or CTA 8-100, Army Medical Department Expendable/Durable Items, as applicable to your unit.

SUPPORTING INFORMATION FOR REPAIR PARTS, SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

Special tools, TMDE, and support equipment are not required.

CALIBRATION

There is no calibration procedures required for the TEMPER, Air-Supported.

REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)

Repair parts are listed and illustrated in WP 0049 through WP 0059 of this manual.

END OF WORK PACKAGE

OPERATOR AND FIELD MAINTENANCE**EQUIPMENT DESCRIPTION AND DATA**

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

The TEMPER, Air-Supported is a three or four airbeam tent. The characteristics, features and capabilities of both TEMPER versions are described for the following major components in the sections that follow in this work package.

The four airbeam version of the TEMPER, Air-Supported has an airbeam spacing of 10 feet 8 inches. The TEMPER, Air-Supported four airbeam version has a lightweight thermal liner with HVAC and power interfaces on the side wall.

The three airbeam version of the TEMPER, Air-Supported has an airbeam spacing of 10 feet 8 inches. It has the same end panel features of the four airbeam version.

All Air-Supported TEMPERs are designed to withstand a snow load of 10 pounds per square foot, and designed to withstand a 55-mph steady wind with gusts up to 65 mph.

The TEMPER, Air-Supported is normally shipped in crates or containers larger than required for the tent, air compressor, thermal liner, light set, power distribution equipment, and other GFE.

With the exception of common hand tools, all supplies and equipment needed to deploy the unit on soil are provided with the TEMPER, Air-Supported.



Figure 1. Tent, Extendable, Modular, Personnel (TEMPER), Air-Supported.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

Main Body Skin

NOTE

The TEMPER, Air-Supported is usually shipped with pre-installed airbeam assemblies, end sections, TEMPER Vestibule, thermal liner, liner end sections, lighting strap assemblies, external bracing assemblies and shelter support ropes attached to the main body skin.

The main body skin (Figure 2, Item 1) consists of a 15 oz., waterproof PVC coated fabric top skin, with an integrated floor. The main body skin has installed fittings and attachments for the installation of: external tensioning devices, end sections, window panels, thermal liner components, Environmental Control Units (ECUs), a power distribution system and a lighting system.



Figure 2. Main Body Skin.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED**End Section**

The end sections (Figure 3, Item 1) are 15 oz., waterproof PVC coated fabric panels with grommeted mud flaps designed for becket lacing connection to the ends of the TEMPER, Air-Supported main body skin. The end sections are usually shipped with door panels and are capable of connection to a standard TEMPER Vestibule assembly.



Figure 3. End Section.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED**Liner Assembly and Plenum**

The thermal liner center section (Figure 4, Item 1) consists of a lightweight woven polyester fabric coated in vinyl designed to provide a dead air space between occupants and the main outer skin. The thermal liner is held in place by hook and pile fastening straps that attach the thermal liner to straps on the airbeams. The thermal liner has loops inside the shelter at the airbeam connection points for hanging lights.

The plenum (Figure 4, Item 2) is fabricated from the same material as the thermal liner and distributes the air flow from the environmental control unit to promote a more even temperature distribution throughout the shelter. The plenum has ties that are used to connect to the D-rings along the peak of the liner.

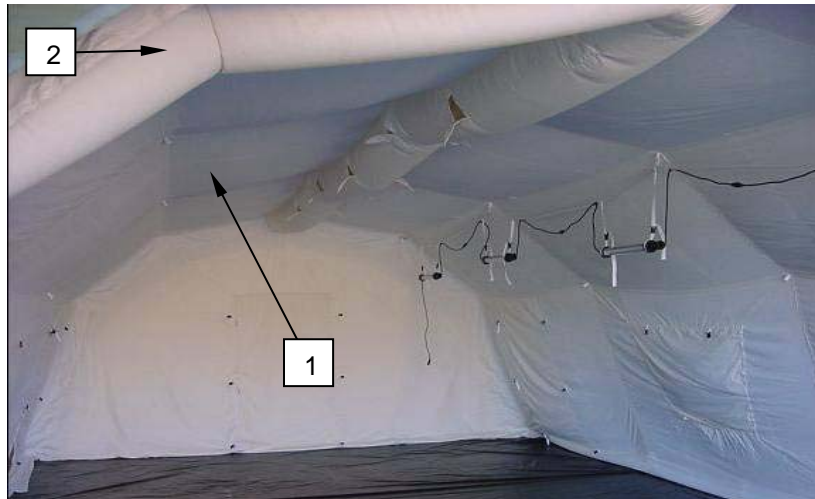


Figure 4. Main Liner.

Liner End Section

The liner end section (Figure 5) consists of a lightweight woven polyester fabric coated in vinyl, designed to provide a dead air space between occupants and the main outer skin. The liner end section is attached to the main liner and TEMPER Air-Supported end section with hook and pile fastening straps. The liner end section has a personnel door, and an opening for the power distribution box.



Figure 5. Liner End Section.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED

Airbeam Assembly

The airbeam assembly (Figure 6, Item 1) is an 11 feet high, 21 feet wide, semicircular, inflatable textile composite airbeam, which is the primary load bearing component of the TEMPER, Air-Supported shelter. The airbeam assembly consists of the airbeam, a footer attachment to the main body skin, and an inflation hose assembly for connection to the manifold assembly for inflation and deflation of all airbeams together. Additionally, the airbeam assembly has fastening straps and fittings used to securely fasten the airbeam to the main body skin and the thermal liner. Airbeam assemblies are shipped installed in the main body skin, connected to the manifold assembly.

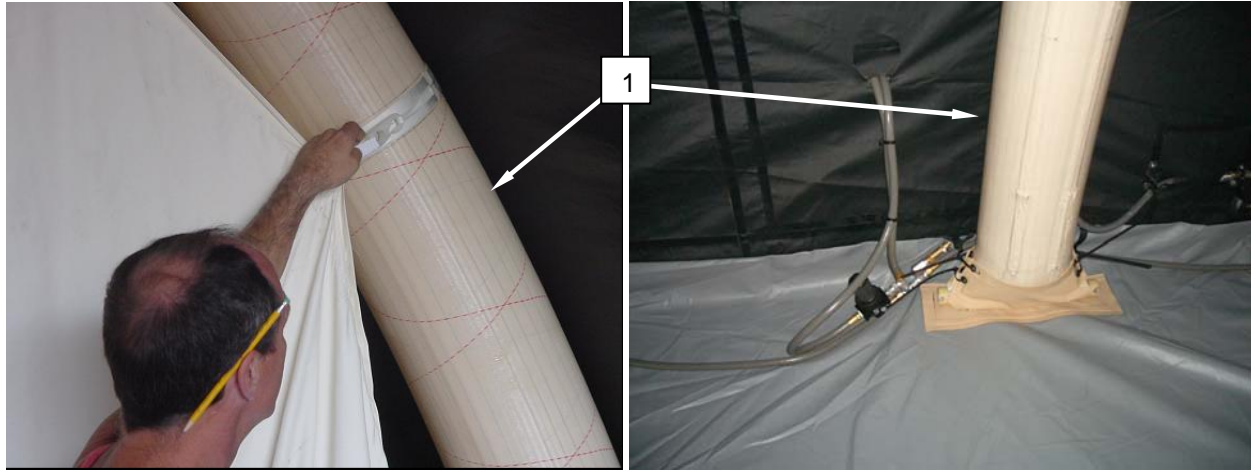


Figure 6. Airbeam Assembly.

Inflation System Manifold Assembly

The Inflation System Manifold Assembly is located between the outer main skin and thermal liner along the side of the shelter. The Manifold Assembly consists of inflation (Figure 7, Item 1) and deflation air hoses (Figure 7, Item 2), a pressure regulator (Figure 7, Item 3), a pressure relief valve (Figure 7, Item 4), connection fittings, and air hoses with quick disconnect fittings to connect to all of the airbeam assemblies in the shelter. The inflation system manifold assembly is fastened to the outer main skin with attached securing ties.

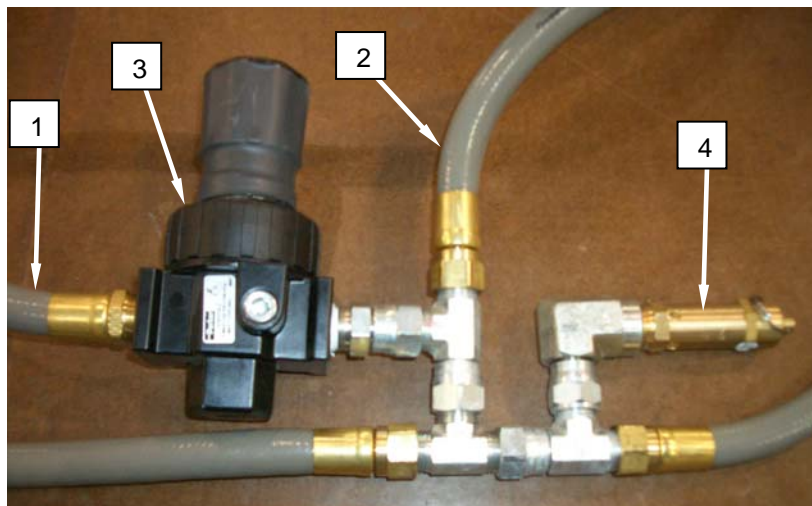


Figure 7. Manifold Assembly.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED**Inflation System - Pressure Regulator**

The Inflation System Pressure Regulator (Figure 8, Item 1) is part of the inflation system manifold assembly, and is located between the outer main skin and thermal liner along the side of the shelter. The pressure regulator regulates the inflation pressure at 50 PSIG (± 5 PSI) for the manifold pressure to the airbeam assemblies.

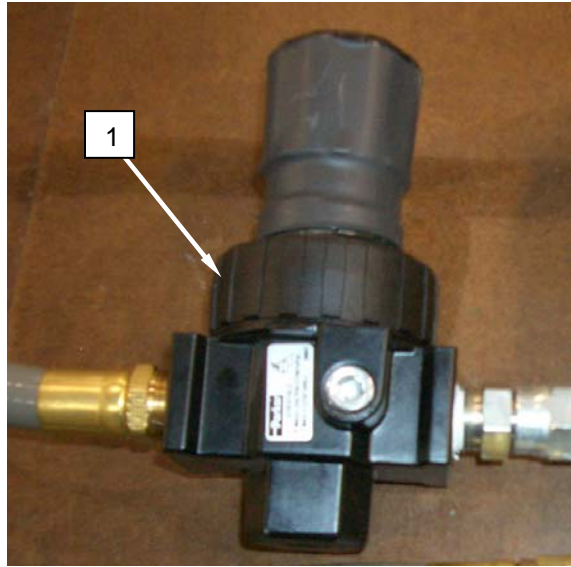


Figure 8. Pressure Regulator.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED**Inflation System - Air Compressor**

The electric air compressor is a portable 1.7 horsepower air compressor that delivers 0 - 150 PSIG compressed air for TEMPER, Air Supported inflation. The compressor requires 120 VAC external input power using a standard power receptacle plug. The compressor has a 4.5 gallon storage capacity air tank and an automatic shutoff function that shuts off the electric air compressor when 120 PSIG is reached and the onboard air storage tank is full. The compressor has an output air pressure gauge and quick-disconnect fittings on the front panel. The electric air compressor has a maximum sound level of 85 dBA (Decibel ISO3744). The compressor weight is 85 lbs.



Figure 9. Air Compressor.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED**Electrical System - Lighting Assembly**

The TEMPER, Air-Supported Lighting Assembly is made up of two lighting kits, power distribution extension cords, and connecting straps pre-installed into the thermal liner, to suspend the lighting units from the shelter thermal liner (Figure 10).



Figure 10. Lighting Assembly.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED**Electrical System - Power Distribution System**

The electrical power distribution system provided with the tent consists of a power distribution box (Figure 11, Item 1), a power distribution box mounting pole (Figure 8, Item 2), an external power cable to connect to a generator or external power source, two power distribution cables with that have three, 4 plug 110 VAC convenience outlet receptacle boxes, and extension power cords.

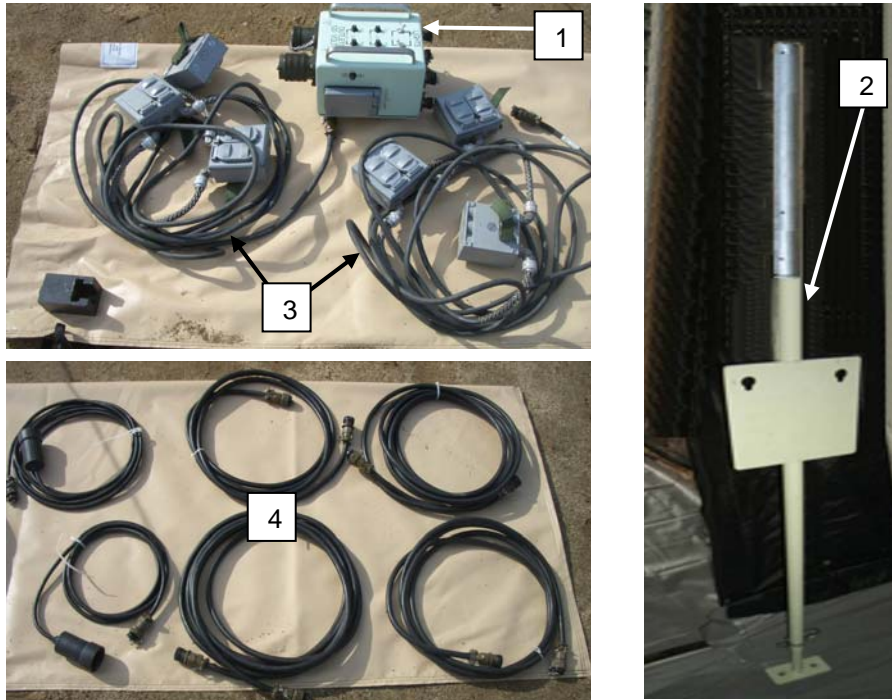


Figure 11. Power Distribution System.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED**Vestibule Assembly**

The vestibule is made from a 15 oz., waterproof PVC coated fabric. It is supported by three aluminum vestibule frame assemblies. Becket loops and grommets are used to attach a removable door to the vestibule, and for attaching the other side of the vestibule to either a tent end section or door section adapter. The vestibule without a door can be used as a passageway when connecting one tent to another.



Figure 12. Vestibule Assembly.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - CONTINUED

External Bracing

The TEMPER, Air-Supported shelter is secured with external bracing straps on both ends of the tent, as well as side ropes and vestibule guy lines for additional stability. The vestibule end (Figure 13, Item 1) of the tent has fixed external bracing straps (Figure 13, Item 2), and the door end of the tent (Figure 13, Item 3) has adjustable external bracing straps (Figure 13, Item 4) with tensioning ratchets (Figure 13, Item 5). Snow straps are provided for inclement weather and high wind stability.

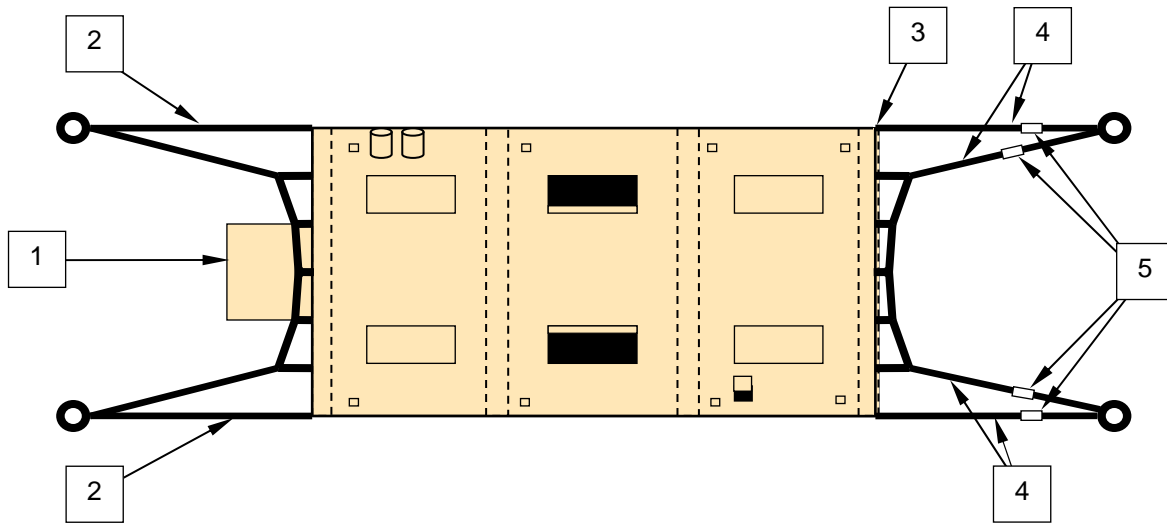


Figure 13. External Bracing.

DIFFERENCES BETWEEN MODELS

There are seventeen different configurations of the TEMPER, Air-Supported shelter, identified separately by Type, color and NSN. TEMPER, Air-Supported shelter Types are numbered Type XXXI through Type XLVII (31 through 47) with Types XXXII through XLVII are Force Provider only configurations. Many of these different configurations are interchangeable and inter-connectible by 'complexing' shelters together. Complexing procedures are provided in the appropriate Force Provider technical manual.

Operator and maintenance actions are common to all TEMPER, Air Supported shelter types. There are no differences associated with equipment models or units of the same model that affect operator or maintenance actions.

To identify all components prior to beginning deployment, refer to WP 0008 Table 1 'TEMPER, Air-Supported System Configurations.'

To identify items required for deployment but not part of the end item, refer to WP 0063 'Components of End Items (COEI) and Basic Issue Items (BII) Lists.'

EQUIPMENT DATA

TEMPER, AIR-SUPPORTED

(System, Crated For Shipping)

Weight 1,200 lbs
 Length 85 in
 Width 47 in
 Height 46 in
 Cube (Shelter System, Crated for Shipping) 106.34 ft³ (85 in x 47 in x 46 in)

(4 Airbeam Shelter, Deployed)

Weight 600 lbs
 Length 32 ft
 Width 21 ft
 Height 11 ft

(3 Airbeam Shelter, Deployed)

Weight 525 lbs
 Length 21 ft
 Width 21 ft
 Height 11 ft

ELECTRIC AIR COMPRESSOR

Weight (packed) 94 lbs. (approx)
 Weight 85 lbs
 Input Power 120 VAC
 Output 120 PSIG (Regulated)
 Storage Tank 4.5 GAL
 Sound Level (Decibel ISO3744) 85 dBA

END OF WORK PACKAGE

OPERATOR AND FIELD MAINTENANCE**THEORY OF OPERATION**

TEMPER, AIR-SUPPORTED THEORY OF OPERATION

The TEMPER, Air-Supported is a self-contained portable shelter that is rapidly deployed in the field. It is an inflatable enclosure that is erected without the use of special tools. A system of shelter side support ropes and tie downs enhance stability in high winds or inclement weather conditions. Access to the structure is gained through a vestibule or personnel door at each end. The TEMPER, Air-Supported series offers a wide array of size, configuration, and connection options (also known as complexing) for various field applications.

The fabric is coated black on the inside with a lightweight white polyester liner to support interior light control and blackout conditions, and on the outside woodland green or desert tan for camouflage and low visibility. The structure, when properly closed, is light secure and weather proof. Duct connectors incorporated into the side walls near ground level allow heating or air conditioning duct attachment as required, or can be closed when not used.

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

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

The frame structure consists of lightweight semi-circular airbeam components that are attached to the tent fabric using attached fastener mechanisms. The TEMPER, Air-Supported is deflated and folds for storage and shipping in the shipping crate provided.

The TEMPER, Air-Supported airbeams are inflated together using an attached manifold and air hose system. The tent is secured loosely, prior to inflation, using external bracing straps and tent pins. The structure is completed when all of the airbeams are inflated, the external bracing is completed and power distribution and lighting accessories are installed and connected. A standard TEMPER vestibule is provided, attached to one end of the structure.

Fabric panels make up the TEMPER, Air-Supported outer skin, with two end panels attached using becket lacing and hook and pile wind flaps for security. The end fabric panels enclose the ends of the structure and provide access through the vestibule or personnel doors. Vestibule and personnel doors are secured open using ties provided in the fabric panels.

External electrical power is provided to the TEMPER, Air-Supported through a power distribution box that is mounted on a stand connected to the airbeam structure. The power distribution box contains lighting switches to control two strings of fluorescent lights that provide interior lighting. Six ground fault protected convenience outlets have separate circuit breakers. The fluorescent lights are secured to the structure using the lighting straps provided and pre-installed in the main liner.

TEMPER, AIR-SUPPORTED DEPLOYMENT SEQUENCE

The TEMPER, Air-Supported is intended to be deployed from a shipping container (Figure 1).



Figure 1. Shelter in Shipping Container.

The TEMPER Air-Supported deployment sequence begins when the tent is unfolded/unrolled out from the shipping container to a reasonably flat location 30 feet wide by 62 feet long (four airbeam tent) or 30 feet wide by 50 feet long (three airbeam tent) (Figure 2).



Figure 2. Tent Unfolded/Unrolled.

External bracing is applied at right angles to the TEMPER Air-Supported orientation and the tent airbeams are inflated with the air compressor provided (Figure 3).



Figure 3. Tent During Inflation.

Manual assistance is recommended as the airbeams inflate, to lift them into correct position (Figure 4).



Figure 4. Airbeams Lifted Into Position.

TEMPER, AIR-SUPPORTED DEPLOYMENT SEQUENCE - CONTINUED

The TEMPER tent snaps into position at 12 -15 psi and is fully inflated at 50 psig.



Figure 5. TEMPER, Air-Supported Inflated.

The vestibule is erected with internal metal frame pieces, and final external bracing adjustments are made (Figure 6).



Figure 6. Vestibule Installation.

The liner, plenum, and lighting strap assembly is preinstalled.

The power distribution system and lighting units are then installed (Figure 7).

Ready for use.



Figure 7. Power Distribution and Lighting.

END OF WORK PACKAGE

CHAPTER 2

OPERATOR INSTRUCTIONS
FOR
TEMPER, AIR SUPPORTED SHELTER

OPERATOR AND FIELD MAINTENANCE

DESCRIPTION AND USE OF OPERATOR CONTROLS AND INDICATORS

GENERAL

The following information describes the controls and indicators for the TEMPER, Air-Supported, which includes the Air Compressor, Inflation System, Power Distribution System and Lighting System.

AIR COMPRESSOR

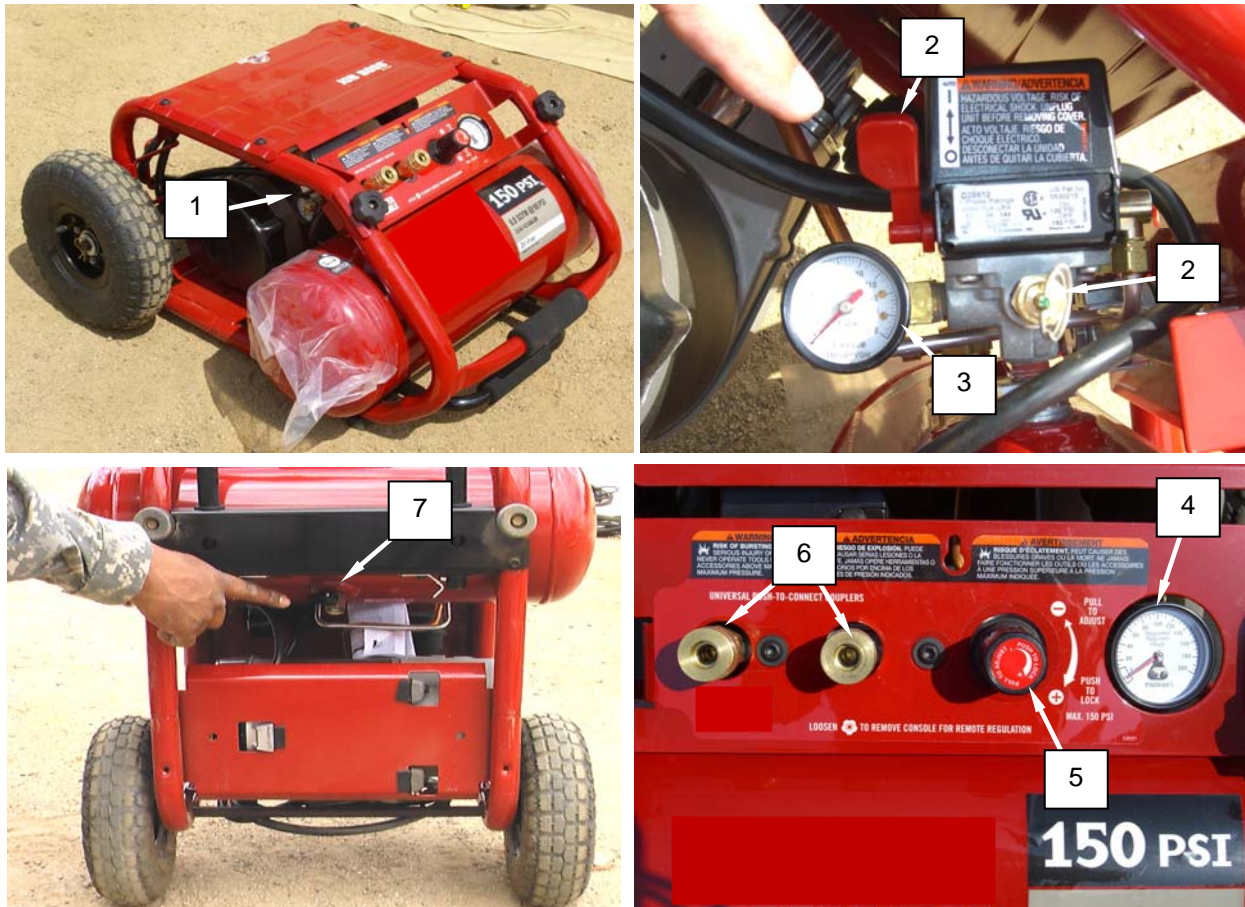


Figure 1. Air Compressor.

Table 1. Air Compressor Controls and Indicators.

Key	Control / Indicator	Function
1	On/Auto/Off Switch	Controls unit power "ON/AUTO" or "OFF."
2	Safety Valve	Releases at factory setting if the pressure switch does not shut off the compressor at "cut-out" setting.
3	Tank Pressure Gauge	Indicates the reserve air pressure in the air tank.
4	Outlet Pressure Gauge	Indicates air pressure available at the regulator outlet.
5	Regulator	Controls air pressure to outlet pressure gauge. Pull knob out & turn clockwise to increase pressure, turn counter-clockwise to decrease pressure. Push knob in to lock.
6	Quick-Connect Body	One hand push-to-connect operation.
7	Drain Valve	Drain condensation from the air tank.

INFLATION SYSTEM

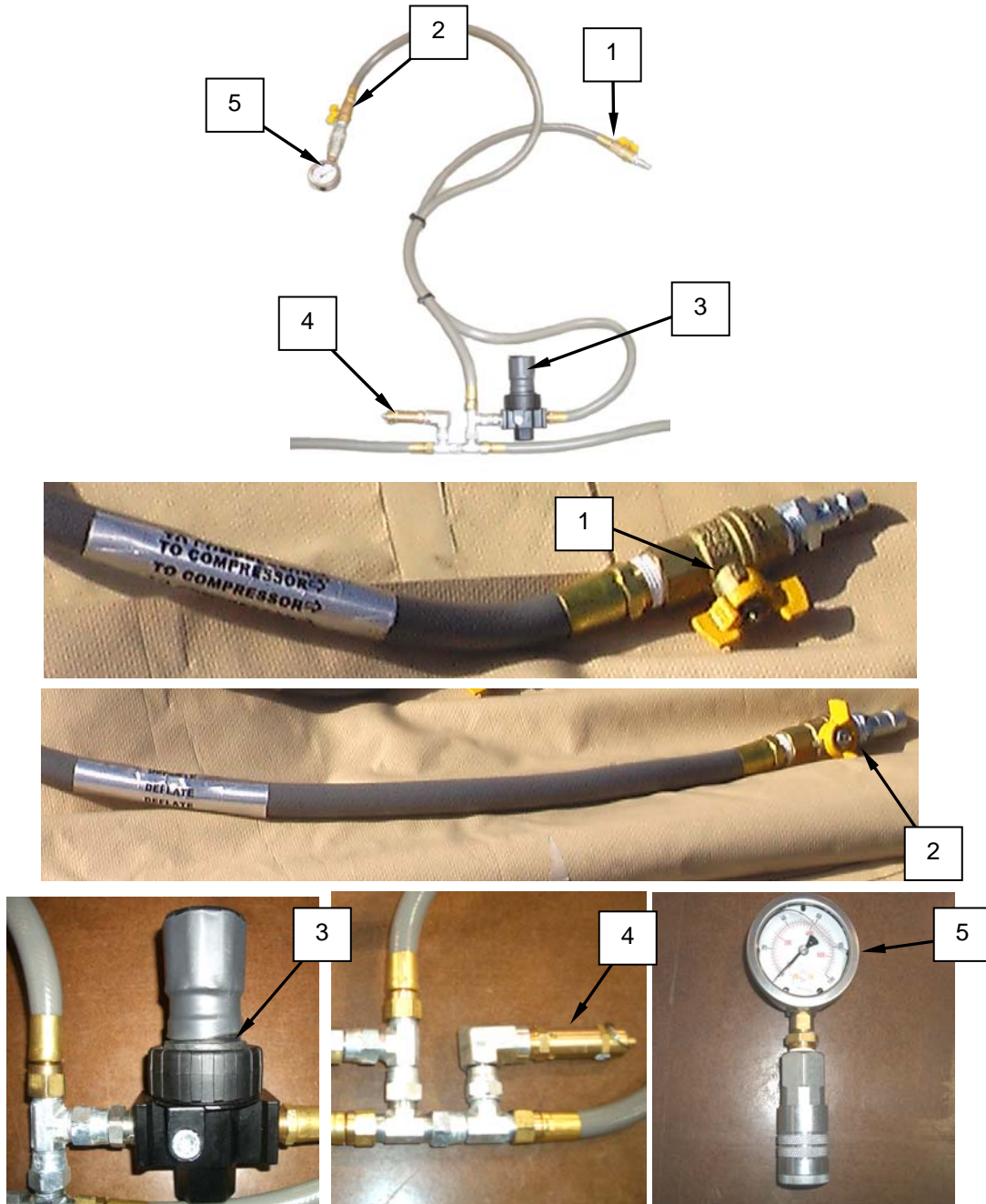


Figure 2. Inflation System (Sheet 1 of 2).

Table 2. Inflation System Controls and Indicators.

Key	Control / Indicator	Function
1	Inflation Ball Valve	Labeled 'TO COMPRESSOR' - Controls inlet air pressure at the inflation manifold "On" (Open) or "Off" (Closed). Used to inflate all shelter airbeams together.
2	Deflation Ball Valve	Labeled 'DEFLATE' - Controls outlet air pressure from the inflation manifold "On" (Open) or "Off" (Closed). Used to deflate all shelter airbeams together.
3	Pressure Regulator	Controls air pressure to inflation manifold outlet at factory set pressure of 55 PSI.
4	Relief Valve	Releases (Lifts) at factory set pressure (higher than the pressure regulator setting.)
5	Pressure Gauge	Displays Air Pressure 0 - 100 PSI.

INFLATION SYSTEM - CONTINUED

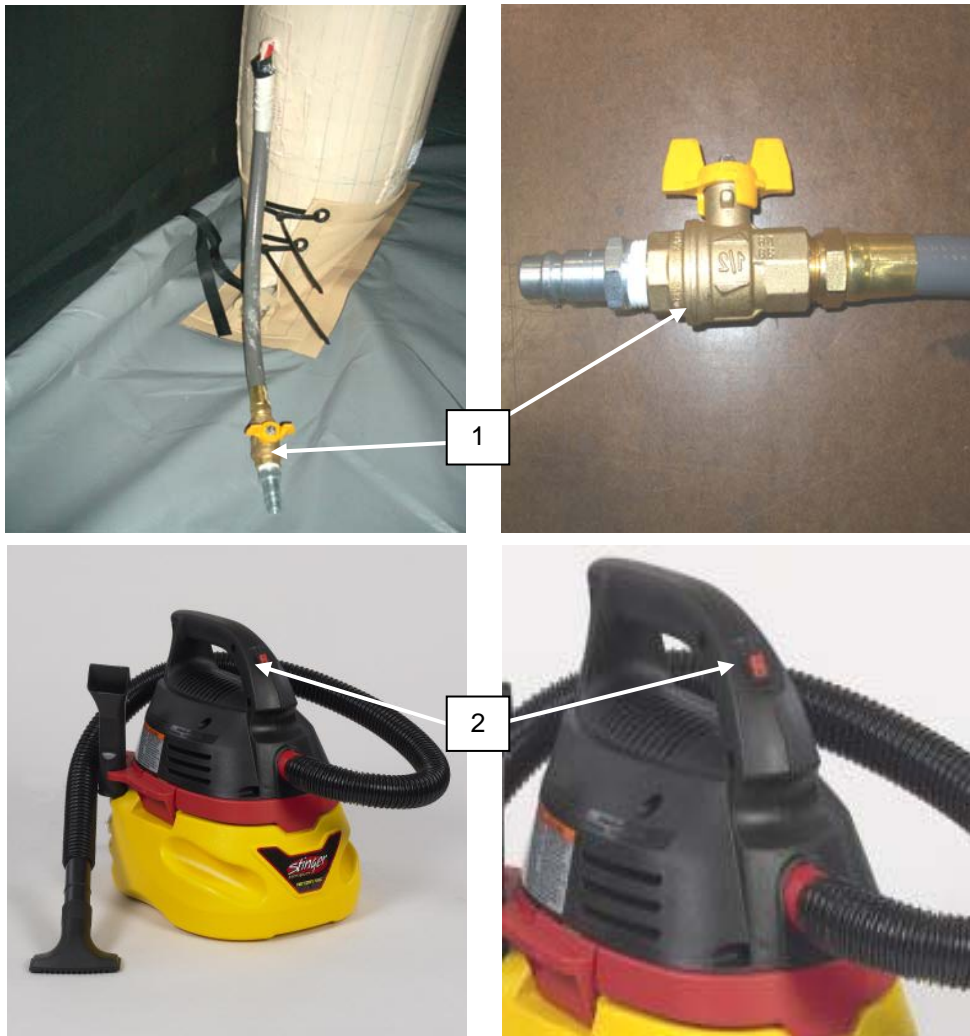


Figure 2. Inflation System (Sheet 2 of 2).

Table 2. Inflation System Controls and Indicators - Continued.

Key	Control / Indicator	Function
1	Airbeam Inflation Ball Valve (8)	Controls air pressure to airbeam "On" (Open) or "Off" (Closed). Two ball valves per airbeam assembly.
2	Deflation Scavenge Vacuum Power On/Off Switch	Controls unit power "On" or "Off."

POWER DISTRIBUTION SYSTEM

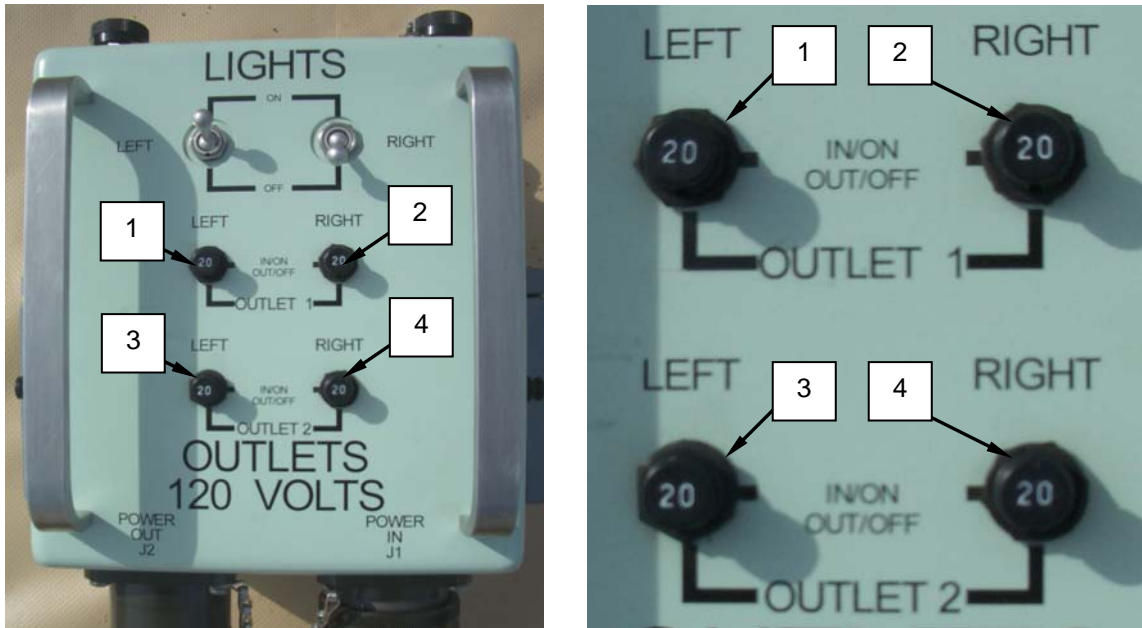


Figure 3. Power Distribution Box Front Panel.

Table 3. Power Distribution Box Front Panel Controls and Indicators.

Key	Control / Indicator	Function
1	Outlet 1 Left Circuit Breaker, Pushbutton 20 A	Controls current to Left Convenience Outlet Assembly 1, "In" (On), "Out" (Off), Push to Reset.
2	Outlet 1 Right Circuit Breaker, Pushbutton 20 A	Controls current to Right Convenience Outlet Assembly 1, "In" (On), "Out" (Off), Push to Reset.
3	Outlet 2 Left Circuit Breaker, Pushbutton 20 A	Controls current to Left Convenience Outlet Assembly 2 "In" (On), "Out" (Off), Push to Reset.
4	Outlet 2 Right Circuit Breaker, Pushbutton 20 A	Controls current to Right Convenience Outlet Assembly 2 "In" (On), "Out" (Off), Push to Reset.

POWER DISTRIBUTION SYSTEM - CONTINUED

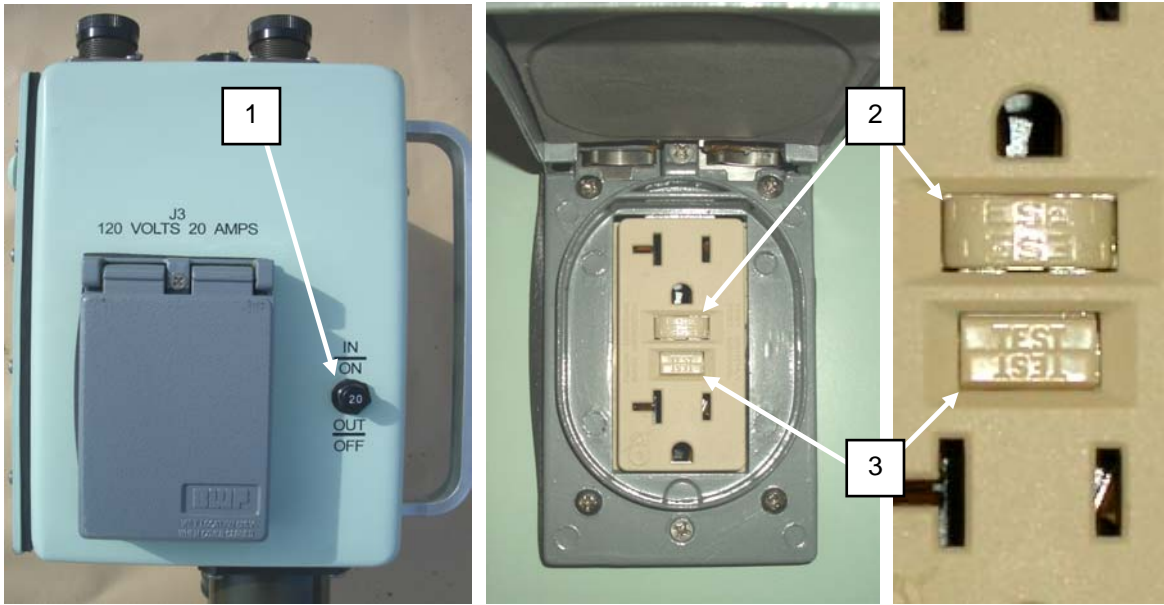


Figure 4. Power Distribution Box Left Side.

Table 4. Power Distribution Box Left Side Controls and Indicators.

Key	Control / Indicator	Function
1	J3 Output Circuit Breaker, Pushbutton 20 A	Controls current to J3, "In" (On), "Out" (Off), Push to Reset.
2	Outlet Ground Fault Interrupter RESET Pushbutton	Push to Reset Outlet Ground Fault Interrupter Circuit Breaker.
3	Outlet Ground Fault Interrupter TEST Pushbutton	Push to Test Outlet Ground Fault Interrupter Circuit Breaker.

POWER DISTRIBUTION SYSTEM - CONTINUED

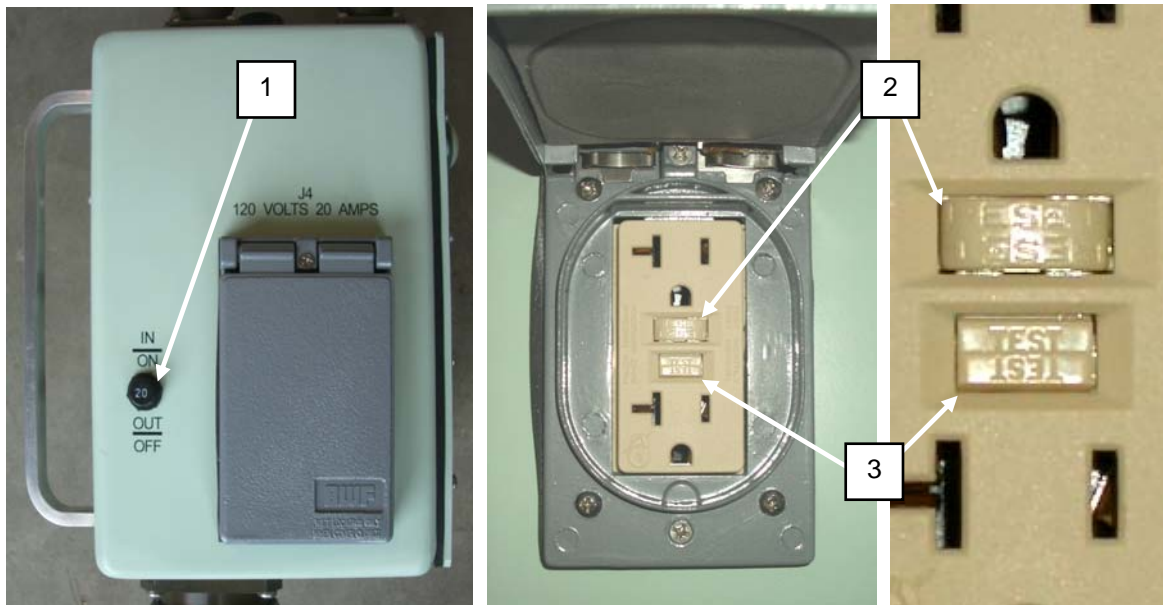


Figure 5. Power Distribution Box Right Side.

Table 5. Power Distribution Box Right Side Controls and Indicators.

Key	Control / Indicator	Function
1	J4 Output Circuit Breaker, Pushbutton 20 A	Controls current to J4, "In" (On), "Out" (Off), Push to Reset.
2	Outlet Ground Fault Interrupter RESET Pushbutton	Push to Reset Outlet Ground Fault Interrupter Circuit Breaker.
3	Outlet Ground Fault Interrupter TEST Pushbutton	Push to Test Outlet Ground Fault Interrupter Circuit Breaker.

LIGHTING SYSTEM

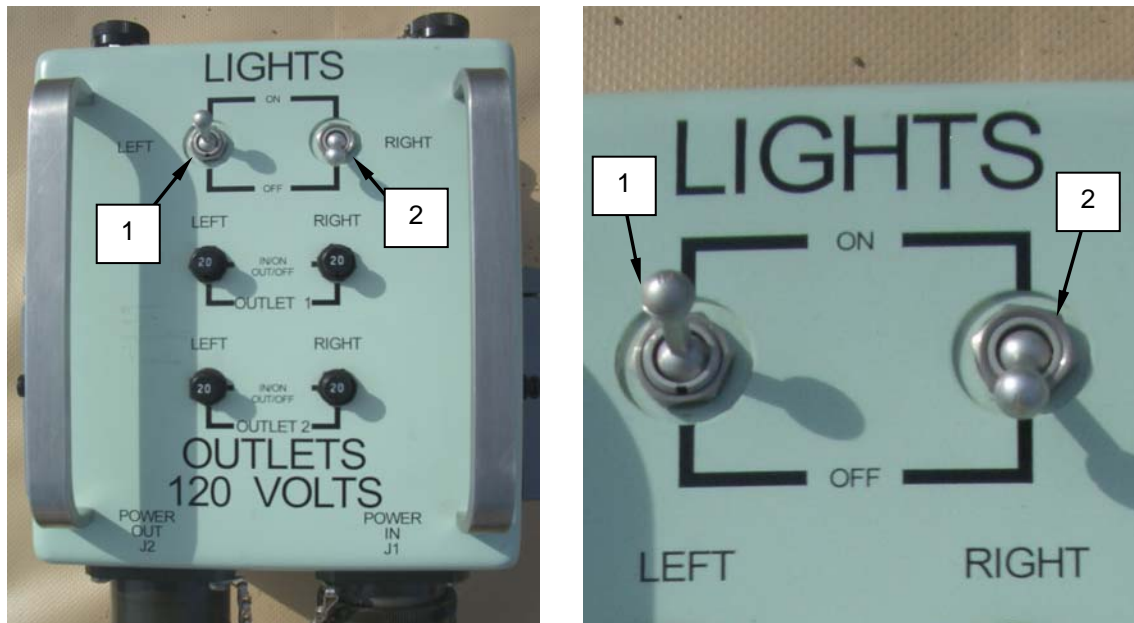


Figure 6. Lighting System Controls and Indicators.

Table 6. Lighting System Controls and Indicators.

Key	Control / Indicator	Function
1	Left Lighting Assembly On/Off Toggle Switch	Controls power to Left Lighting Assembly, "Up" (On) or "Down" (Off).
2	Right Lighting Assembly On/Off Toggle Switch	Controls power to Right Lighting Assembly, "Up" (On) or "Down" (Off).

END OF WORK PACKAGE

OPERATOR MAINTENANCE**OPERATION UNDER USUAL CONDITIONS
DEPLOYMENT****INITIAL SETUP:****Tools and Special Tools**

Hammer, Sledge (WP 0065, Item 1)
Tape, Measuring (WP 0065, Item 3)

Personnel Required

Non-MOS Specific (4)

References

WP 0006, WP 0008, WP 0014, WP 0063

Equipment Condition

Shelter in shipping container or struck.

OPERATING PROCEDURES**CAUTION**

Ensure that the air compressor break-in procedures are followed prior to initial use of the air compressor IAW WP 0014. Failure to follow air compressor break-in on initial use may result in serious damage to the air compressor.

Temper, Air-Supported Configurations

Before proceeding with deployment, refer to WP 0008 entitled "Operation Under Usual Conditions - System Configurations" for a detailed listing of the type and number of components that have been provided for the specific TEMPER, Air-Supported shelter configuration that you are about to deploy.

Siting Requirements

1. Ensure that the site is free of debris, and allow for adequate drainage.

NOTE

For a 3 or 4 airbeam shelter, 4 personnel are recommended to safely and efficiently setup the TEMPER, Air-Supported shelter.

TEMPER, Air-Supported siting dimensions include length and width for external bracing straps and tent pins under tension, as well as takedown space requirements.

The three-airbeam shelter configuration requires a space approximately 30 feet wide and 50 feet long.

OPERATING PROCEDURES - CONTINUED

2. Ensure that the site has a clear and reasonably level space that is approximately 62 feet long (Figure 1, Item 1) and 30 feet wide (Figure 1, Item 2) for the four airbeam configuration shelter.
 - a. The width allows for a knuckle-over takedown of the airbeam-supported structure.



Figure 1. TEMPER, Air-Supported Site Dimensions.

- b. The length addresses the stake-to-stake distance for the external bracing (Figure 2).

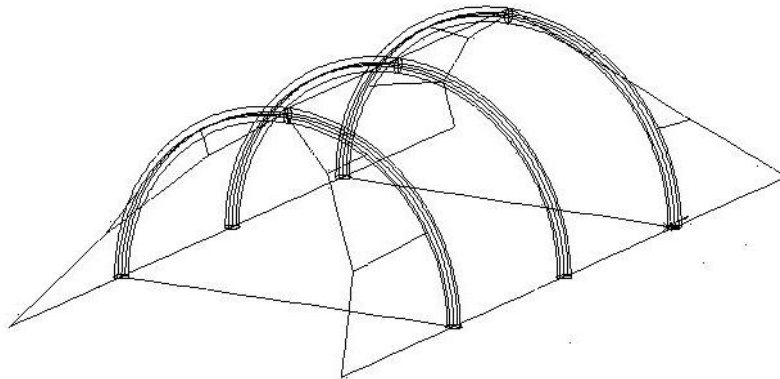


Figure 2. Relationship of External Bracing To Tent Position.

END OF TASK**Inventory System Components****CAUTION**

If items essential for deployment are not present, do not continue the deployment process until all necessary materials are available. Equipment damage may result.

Open shipping crate and inspect inventory listed for the TEMPER, Air-Supported configuration being deployed IAW WP 0063.

END OF TASK

POSITION AND UNROLL/UNFOLD TEMPER, AIR-SUPPORTED**WARNING**

The TEMPER, Air-Supported package in the transportation cover weighs approximately 600 lbs. Use sufficient personnel and lifting equipment when moving. Failure to do so could result in death or serious injury to personnel and damage to equipment.

NOTE

The following instructions depict the setup of the 4 Airbeam TEMPER, Air-Supported. However, the setup procedure for the other TEMPER, Air-Supported series is similar.

The TEMPER, Air-Supported is delivered with the main body skin, floor, airbeams, liner and TEMPER vestibule pre-assembled inside the shelter in the shipping crate.

Users have found it easiest to move the TEMPER, Air-Supported while still in the shipping crate, then maneuver the tent into final setup position while still in the shipping cover.

1. Using suitable lifting equipment, remove the TEMPER, Air-Supported package in the transportation cover (Figure 3) from the shipping container.

NOTE

The TEMPER, Air-Supported is folded towards the inflation manifold side of the shelter, and rolled to the end away from the ECU openings. Positioning the tent is easiest in the transportation cover.

A ground cloth may be used to extend the life of the shelter, however it is not a component of the system.

2. Using suitable lifting equipment, position the TEMPER, Air-Supported package in transportation cover (Figure 3) at the final setup location.



Figure 3. Positioning TEMPER, Air-Supported Package.

POSITION AND UNROLL/UNFOLD TEMPER, AIR-SUPPORTED - CONTINUED

3. Untie transportation cover fasteners (Figure 4, Item 1) and layout transport cover (Figure 4, Item 2).

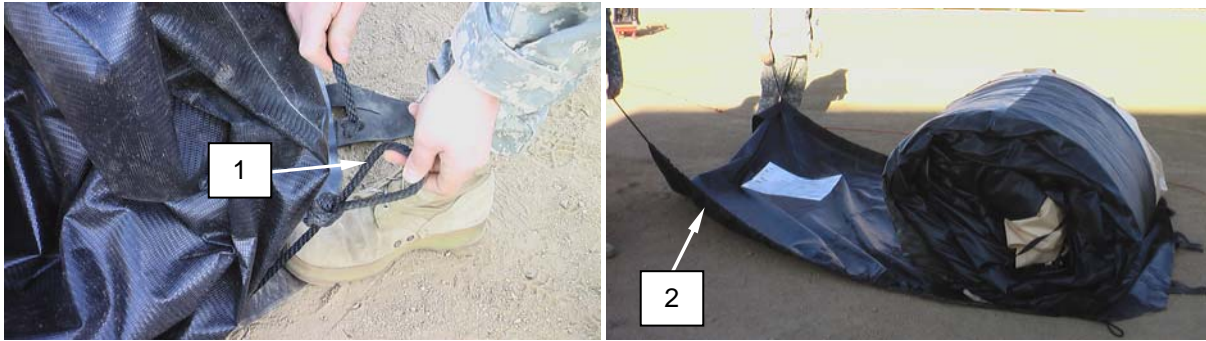


Figure 4. Untie and Layout Transportation Cover.

4. Unroll the TEMPER, Air-Supported unit and remove the transportation cover (Figure 5). Retain the transportation cover for future use.



Figure 5. Remove Transportation Cover.

POSITION AND UNROLL/UNFOLD TEMPER, AIR-SUPPORTED - CONTINUED

- Affixed to the inside of the transport cover, there is a simplified TEMPER AS DEPLOYMENT GUIDE (Figure 6), which can be used when the technical manual is not available.

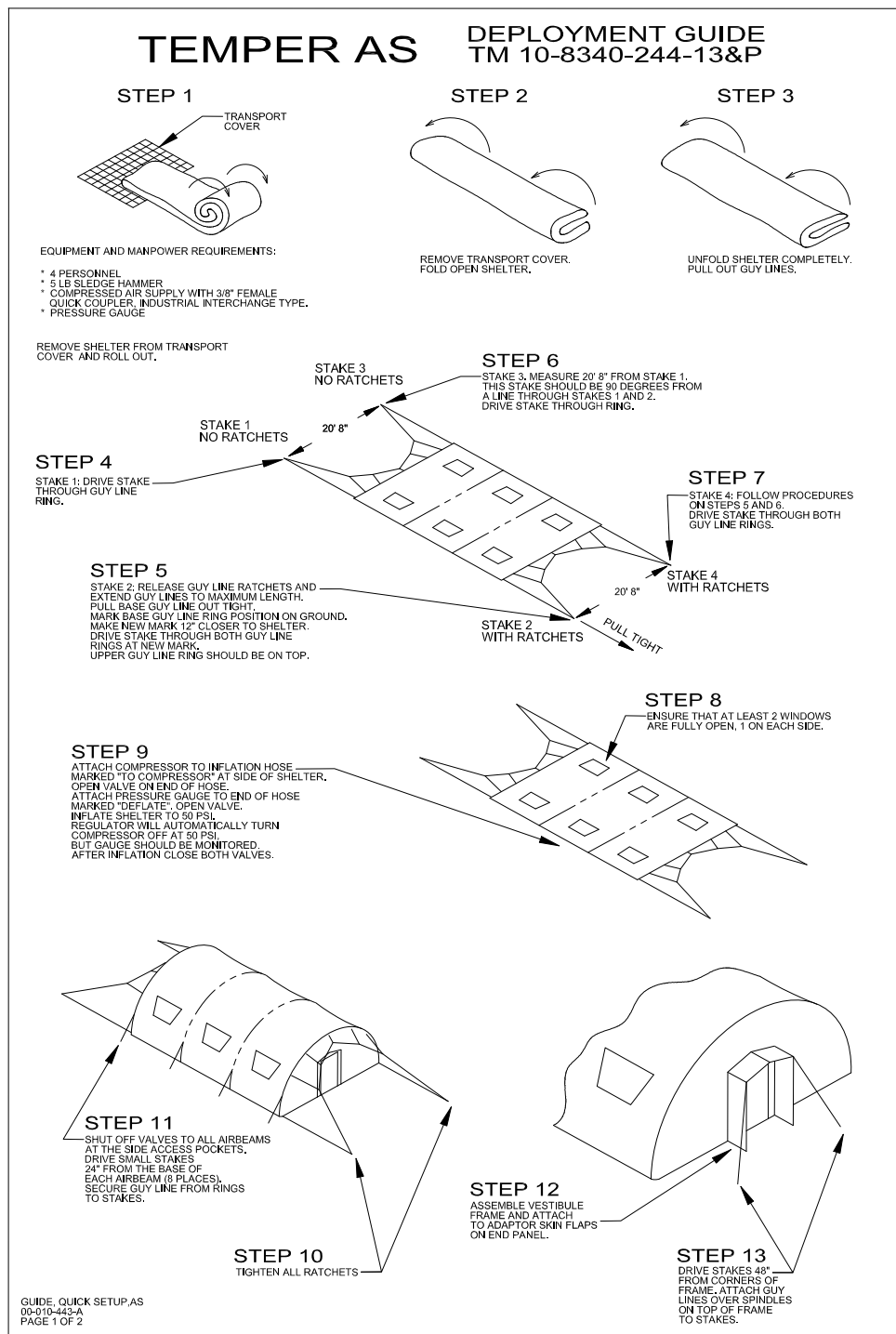


Figure 6. TEMPER AS Deployment Guide

POSITION AND UNROLL/UNFOLD TEMPER, AIR-SUPPORTED - CONTINUED

6. Unfold the TEMPER, Air-Supported until the tent is flat and positioned properly (Figure 7).



Figure 7. Unfold TEMPER, Air-Supported.

END OF TASK

ATTACH EXTERNAL BRACING**NOTE**

External bracing should be as square as possible. The long side of the tent to be staked first does not matter, but one fixed length strap must be staked first (on the vestibule end), followed by staking an adjustable strap (Figure 8, Item 2) on the same long side of the tent (at the opposite end). One long side of the tent must be staked as straight as possible before the other long side.

External bracing consists of fixed length (non-ratchet) straps (Figure 8, Item 1), and adjustable (tensioning ratchet) straps (Figure 8, Item 2) that are attached to both ends of the tent. In addition, snow straps (Figure 8, Item 3) are pre-attached to the top connection point at both ends of the shelter.

NOTE

Ensure that the non-ratchet straps are laid out and aligned with the long side of the shelter. Failure to do so can result in a misaligned shelter.

7. From the non-ratchet end of the shelter, extend and lay out a fixed bracing strap (Figure 8, Item 1) parallel with the long side of the tent.

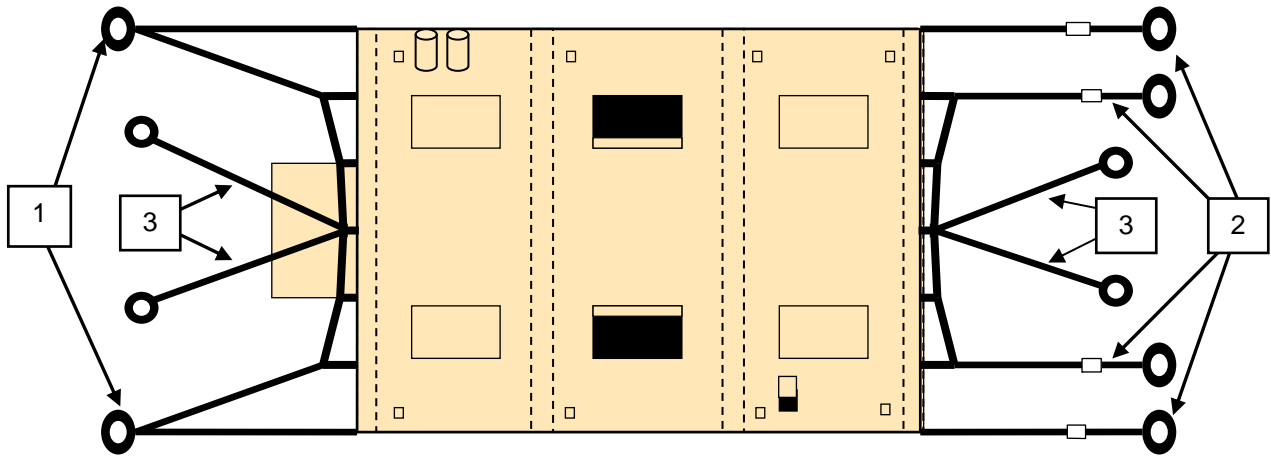


Figure 8. Vestibule End External Bracing Straps.

ATTACH EXTERNAL BRACING - CONTINUED

8. Insert a 36-inch tent pin (Figure 9, Item 2) through the end ring (Figure 9, Item 3).

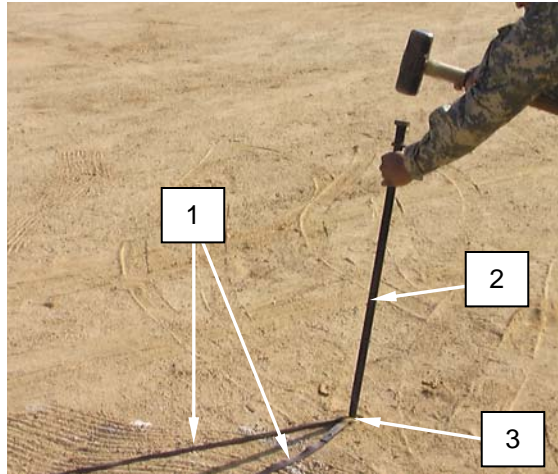


Figure 9. External Bracing Straps to Tent Pin.

9. Angle the 36 inch tent pin outward, away from the tent, and drive the pin into the ground with a sledge hammer until the lower collar (Figure 10, Item 2) is at ground level.

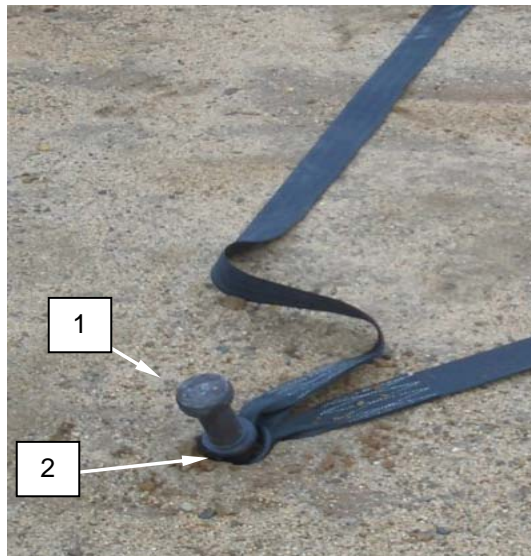


Figure 10. Drive 36-Inch Tent Pin.

10. Proceed to the ratchet end of the shelter, to align and secure the adjustable bracing straps, on the same long side of the tent.

ATTACH EXTERNAL BRACING - CONTINUED

NOTE

The ratchet strap end of the tent has four external bracing straps with tensioning ratchets (Figure 11, Item 1), and snow straps (Figure 11, Item 2) pre-attached to the top connection point of the shelter.

11. At the ratchet end of the shelter, extend the four adjustable straps with tensioning ratchets (Figure 11, Item 1) away from the tent, parallel with the long sides of the tent as shown in Figure 11.

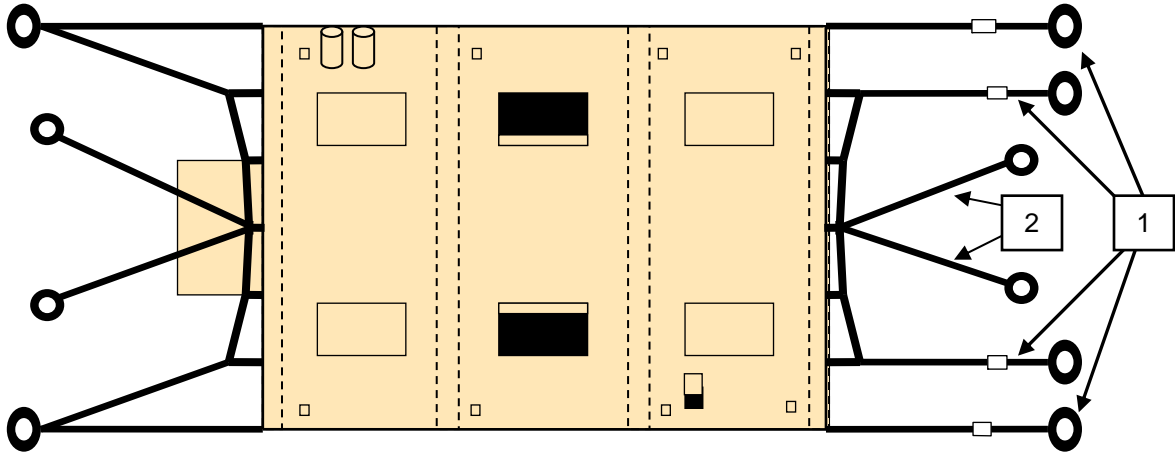


Figure 11. Adjustable Bracing Straps.

12. At the ratchet strap attached to the corner of the shelter (Figure 12, Item 1), pull the slack out, and align the ratchet strap with the long side of the tent. Manually adjust the shelter positioning as necessary, to ensure that the tent is as flat and square as possible.

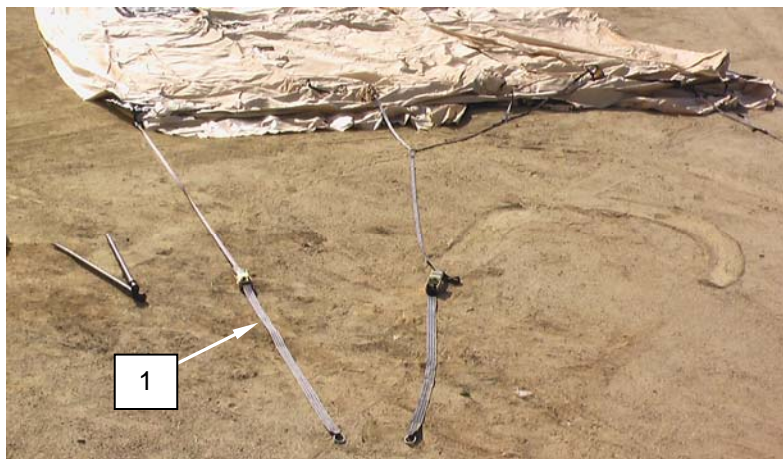


Figure 12. Align Lower Ratchet External Bracing Strap.

ATTACH EXTERNAL BRACING - CONTINUED

13. At the tensioning ratchet (Figure 13, Item 1), release the ratchet bail handle, and ensure that approximately 12 inches of strap (Figure 13, Item 1) extends from the tensioning ratchet.

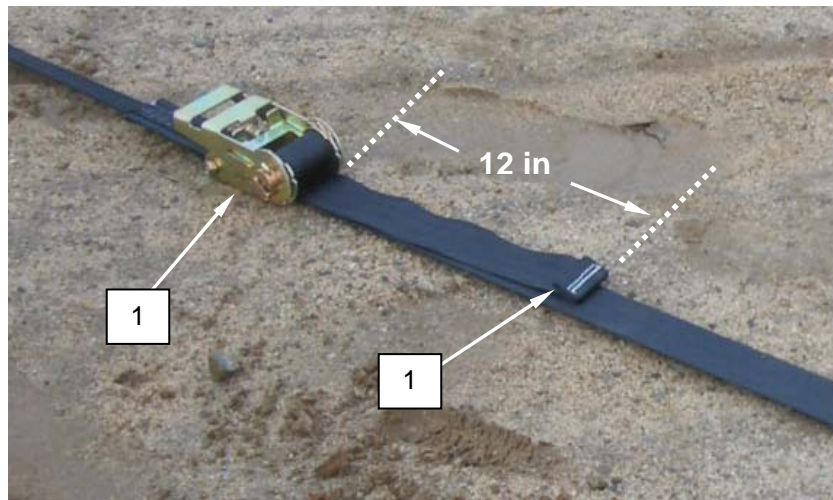


Figure 13. Tensioning Ratchet Strap Excess.

CAUTION

Ensure that the end ring of the upper ratchet external bracing strap is placed on the tent pin BEFORE (on top of) the end ring of the lower ratchet external bracing strap. Failure to do so may compromise the structural integrity of the tent.

14. Position the upper ratchet external bracing strap end ring (Figure 14, Item 1) on top of the lower ratchet external bracing strap end ring (Figure 14, Item 2). This position should be approximately 15 feet from the base of the shelter.

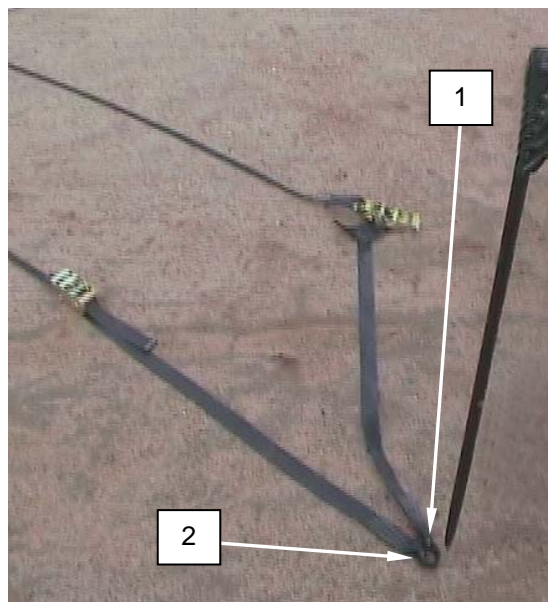


Figure 14. Position Bracing Strap End Rings.

ATTACH EXTERNAL BRACING - CONTINUED

15. Insert the large tent pin through both of the bracing strap end rings (Figure 15, Items 1 and 2), angle the large tent pin away from the tent, and drive the large tent pin into the ground with a sledge hammer until the lower collar (Figure 15, Item 2) is at ground level.

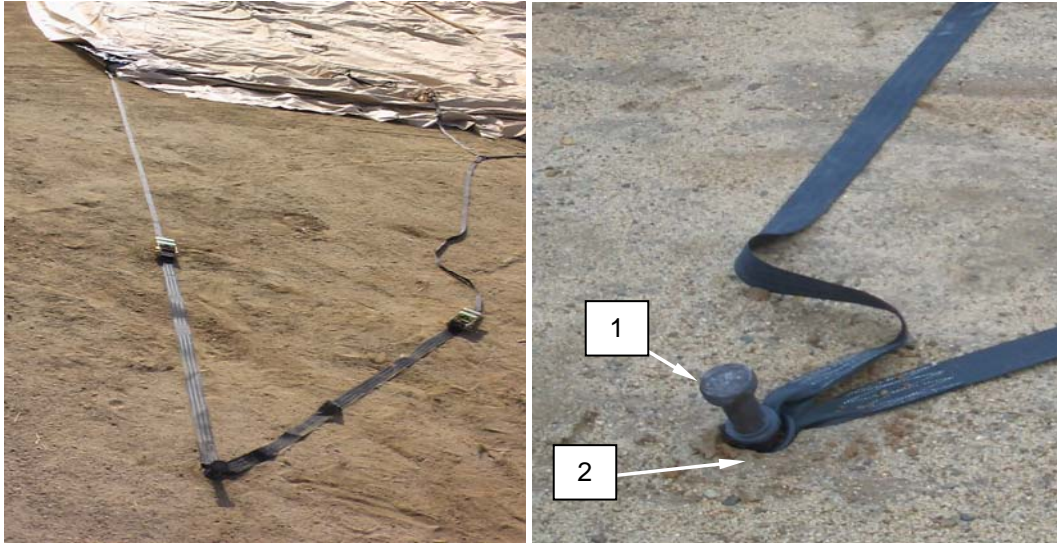


Figure 15. Drive 36 Inch Tent Pin.

CAUTION

Overtightening of external bracing strap tensioning ratchets can cause damage to tent fabric.

16. Tighten the lower ratchet external bracing strap by grasping the bail handle of the tensioning ratchet (Figure 16, Item 1) and pulling up and backwards in a ratcheting motion until tight. Tighten until the tent fabric along the side wall of the tent is taut.



Figure 16. Remove Slack From Lower Ratchet External Bracing Strap.

ATTACH EXTERNAL BRACING - CONTINUED

17. Proceed to the non-ratchet end of the tent on the opposite long side to align and secure the second set of fixed external bracing straps.
18. From the non-ratchet end of the tent, extend the second fixed external bracing strap pair with the bottom corner bracing strap laid out flat, parallel to the long side of the tent. Manually adjust the shelter positioning as necessary, to ensure that the tent is as flat and square as possible.
19. Measure and adjust the position of the second 36-inch tent pin with the bracing straps 20 feet 8 inches apart (Figure 17) from the first 36-inch tent pin. Ensure that both 36-inch tent pins are in line with the long sides of the shelter.

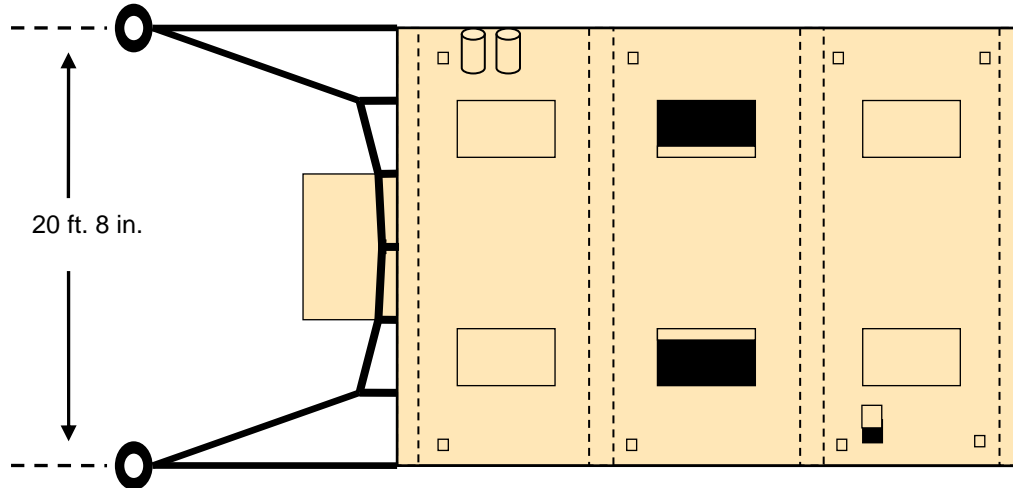


Figure 17. Vestibule End External Bracing Straps.

20. Insert the 36-inch tent pin (Figure 18, Item 1) through the end ring (Figure 18, Item 2).

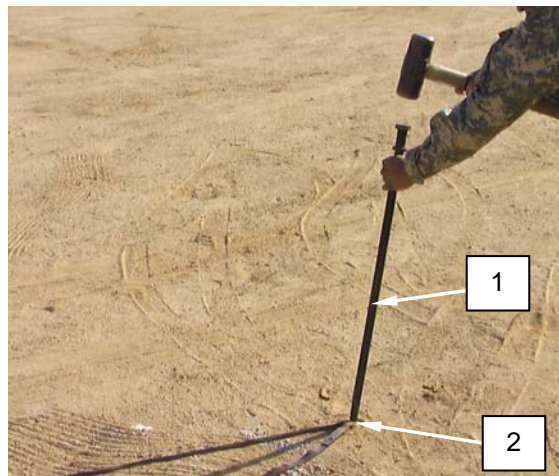


Figure 18. Attach External Bracing Straps to Tent Pin.

ATTACH EXTERNAL BRACING - CONTINUED

21. Angle the 36-inch tent pin (Figure 19, Item 1) outward away from the tent, and drive the second 36-inch tent pin into the ground until the lower collar (Figure 19, Item 2) is at ground level.

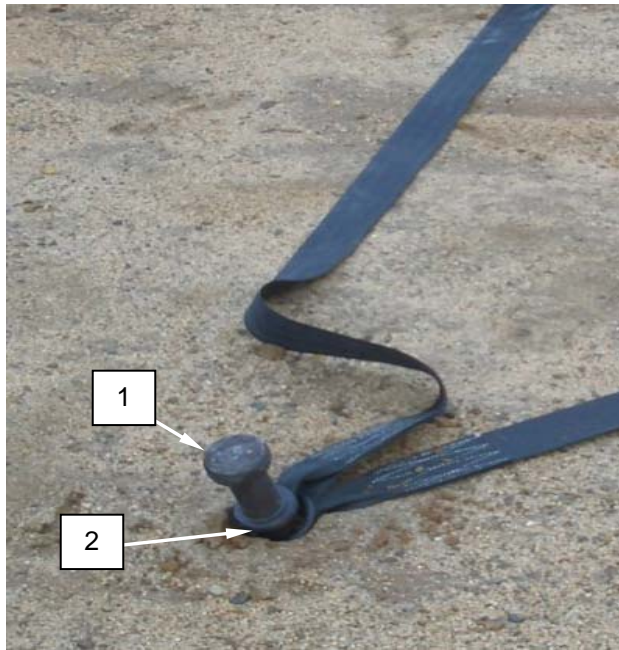


Figure 19. Attach Fixed External Bracing Straps to Tent Pin.

22. Proceed to the ratchet end of the tent on the same long side, to align and secure the final set of upper and lower external bracing straps.
23. At the ratchet end of the tent, extend the lower ratchet external bracing strap (Figure 20, Item 1), pull the slack out, and align with the long side of the shelter. Manually adjust the shelter positioning as necessary, to ensure that the tent is as flat and square as possible.



Figure 20. Align Lower Ratchet External Bracing Straps.

ATTACH EXTERNAL BRACING - CONTINUED

24. At the tensioning ratchet on the lower ratchet external bracing strap, release the ratchet and ensure that approximately 12 inches of strap (Figure 21, Item 1) extends from the tensioning ratchet.

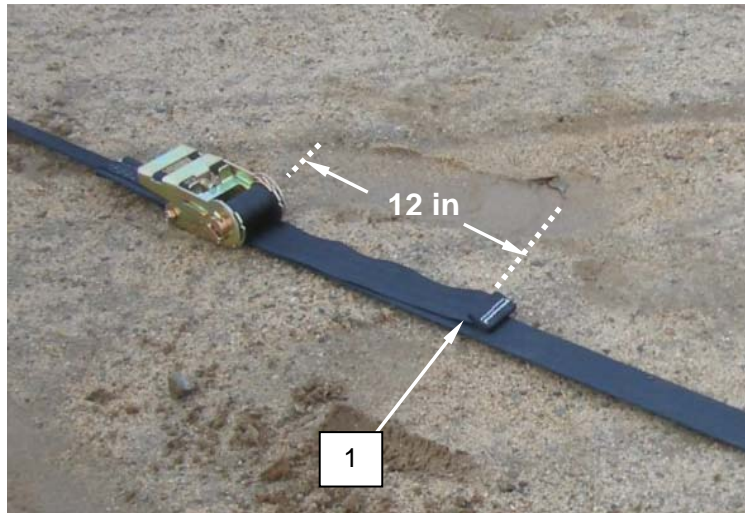


Figure 21. Tensioning Ratchet Strap Excess.

CAUTION

Ensure that the upper ratchet bracing strap end ring is placed on top of the lower ratchet external bracing strap end ring before staking and inflating the tent. Failure to do so may result in chafing or fraying damage to the bracing straps, compromising the structural integrity of the tent.

25. Position the upper ratchet external bracing strap end ring (Figure 22, Item 1) on top of the lower ratchet external bracing strap end ring (Figure 22, Item 2).

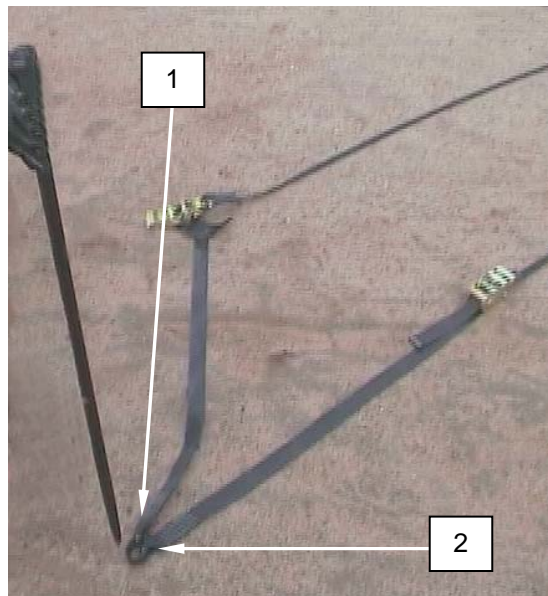


Figure 22. Position Bracing Strap End Rings.

ATTACH EXTERNAL BRACING - CONTINUED

26. Insert the 36-inch tent pin through both end rings, angle the pin (Figure 23, Item 1) outward away from the tent, and drive the 36 inch tent pin into the ground with a sledge hammer until the lower collar (Figure 23, Item 2) is at ground level.

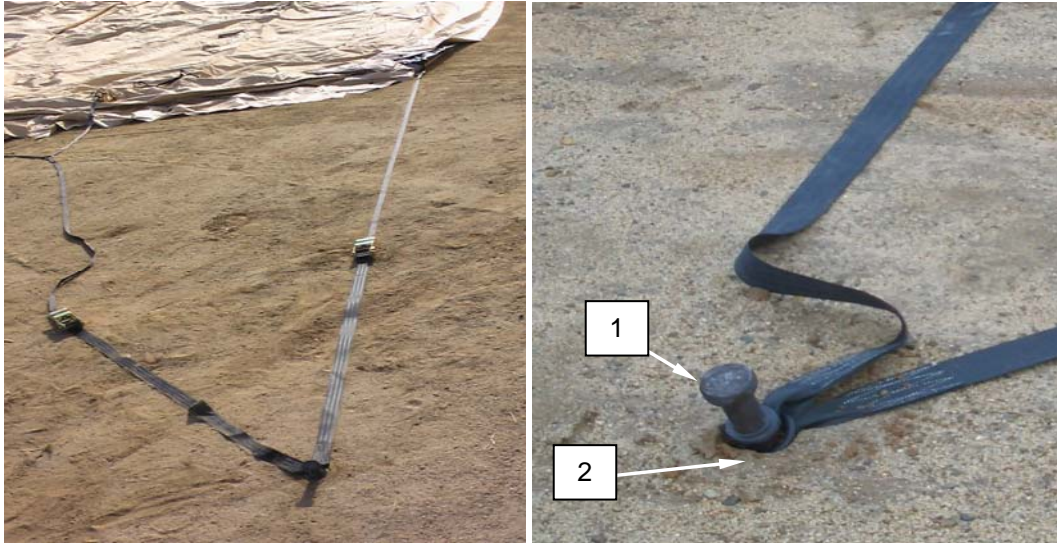


Figure 23. Drive 36 Inch Tent Pin.

CAUTION

Overtightening of external bracing strap tensioning ratchets can cause damage to tent fabric.

27. Tighten the lower ratchet external bracing strap by grasping the bail handle of the tensioning ratchet (Figure 24, Item 1) and pulling up and backwards in a ratcheting motion until tight. Tighten until the tent fabric along the side wall of the tent is taut.

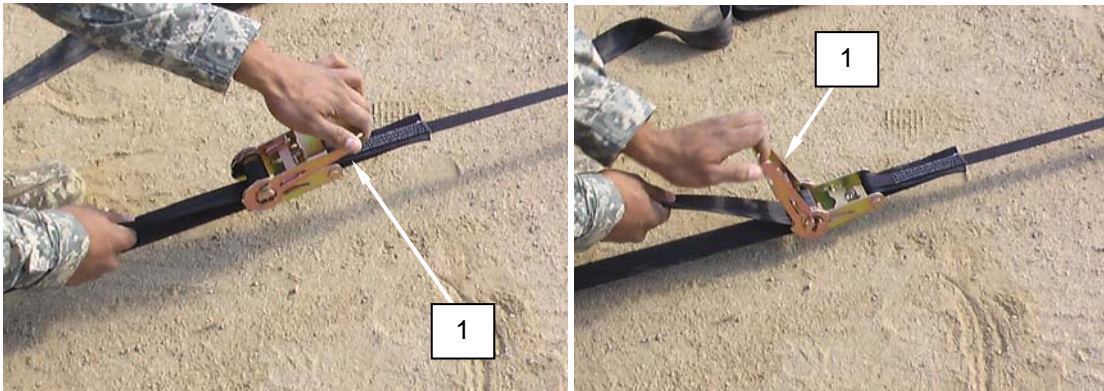


Figure 24. Remove Slack from Lower Ratchet External Bracing Strap.

ATTACH EXTERNAL BRACING - CONTINUED**CAUTION**

Ensure that the upper ratchet external bracing straps with tensioning ratchets are fully loosened before inflating the tent. Failure to do so could damage the equipment.

28. Fully loosen the adjusting ratchets on the upper ratchet external bracing straps (Figure 25).

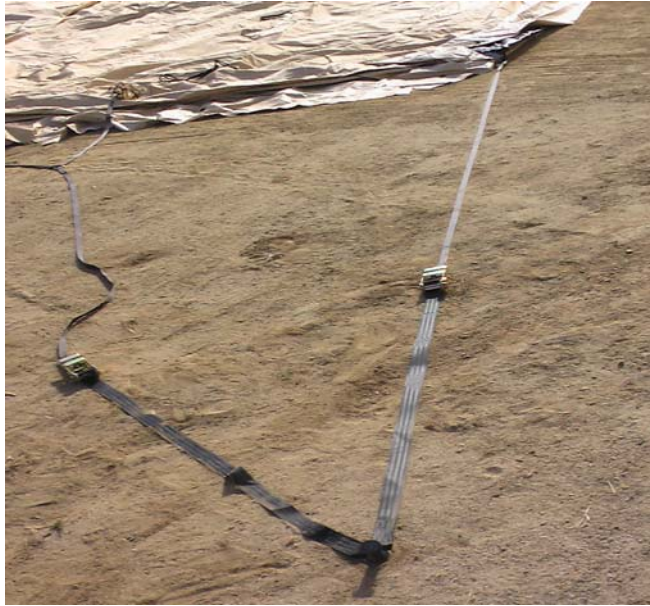


Figure 25. External Bracing Straps Attached and Loose.

END OF TASK

ATTACH SNOW STRAPS

NOTE

The shelter has four snow straps with tensioning ratchets (Figure 26, Item 1) pre-attached to the top connection point of the shelter.

1. At both ends of the shelter, extend the four snow straps with tensioning ratchets (Figure 26, Item 1) away from the tent, towards the large, 36-inch tent pins.

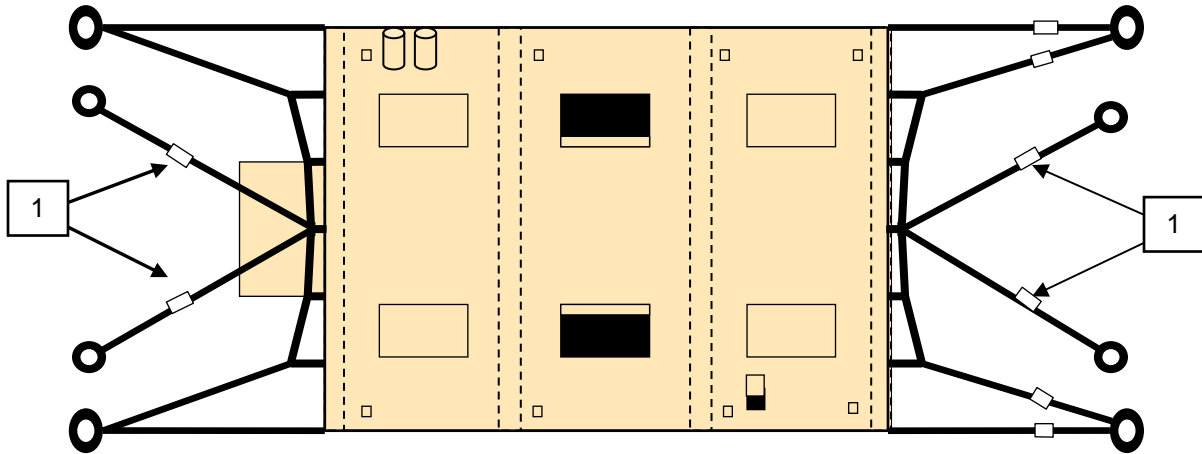


Figure 26. Snow Straps.

2. With the loop end of one of the upper ratchet snow straps (Figure 27, Item 1), pass the strap through the loop forming a girth hitch, and slip the girth hitch over the top collar of the 36 inch tent pin (Figure 27, Item 2). Repeat for the upper ratchet snow strap on all four corners of the shelter.

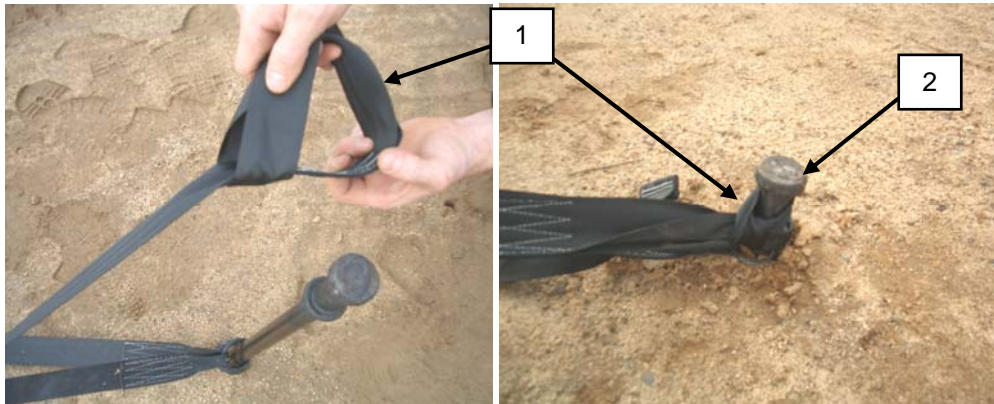


Figure 27. Attach Snow Strap Loops to 36 Inch Tent Pins.

ATTACH SNOW STRAPS - CONTINUED

3. At the tensioning ratchet of each snow strap (Figure 28, Item 1), grasp the strap end extending from the tensioning ratchet (Figure 28, Item 2), and pull out the slack in the snow strap until all four snow straps are hand tight.

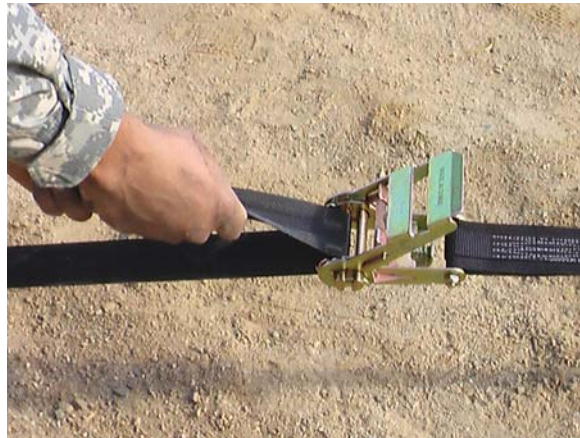
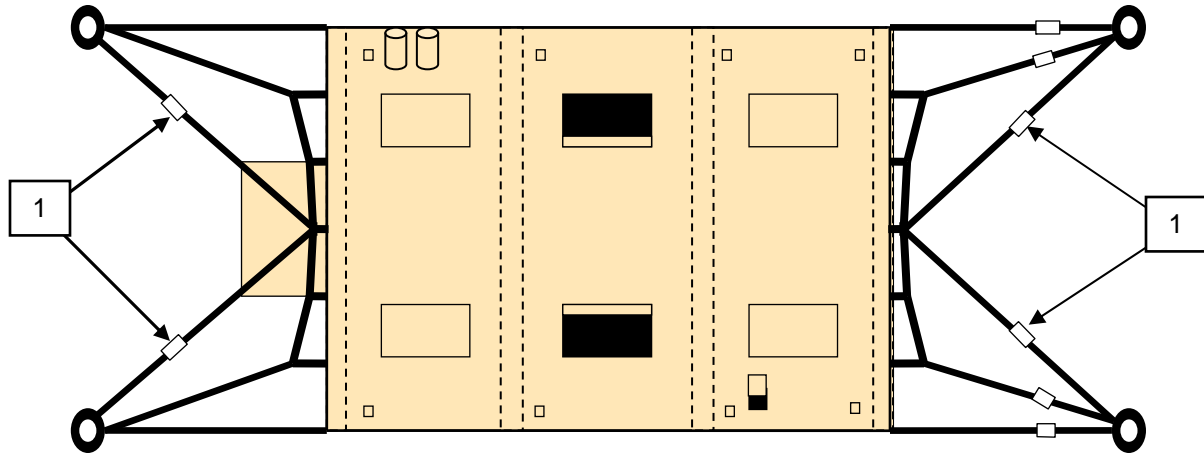


Figure 28. Removing Slack from Upper Ratchet Snow Straps.

ATTACH SNOW STRAPS - CONTINUED**NOTE**

The snow straps are tensioned and aligned by alternately tightening the left and right snow strap tensioning ratchets, using the snout at the top of the shelter for visual alignment and centering, as shown below, properly aligned and centered (Figure 29, Item 1).

4. At either end of the shelter, at the snow strap tensioning ratchets, grasp the bail handle (Figure 29, Item 2), and pull up and back in a ratcheting motion to tighten the snow strap.

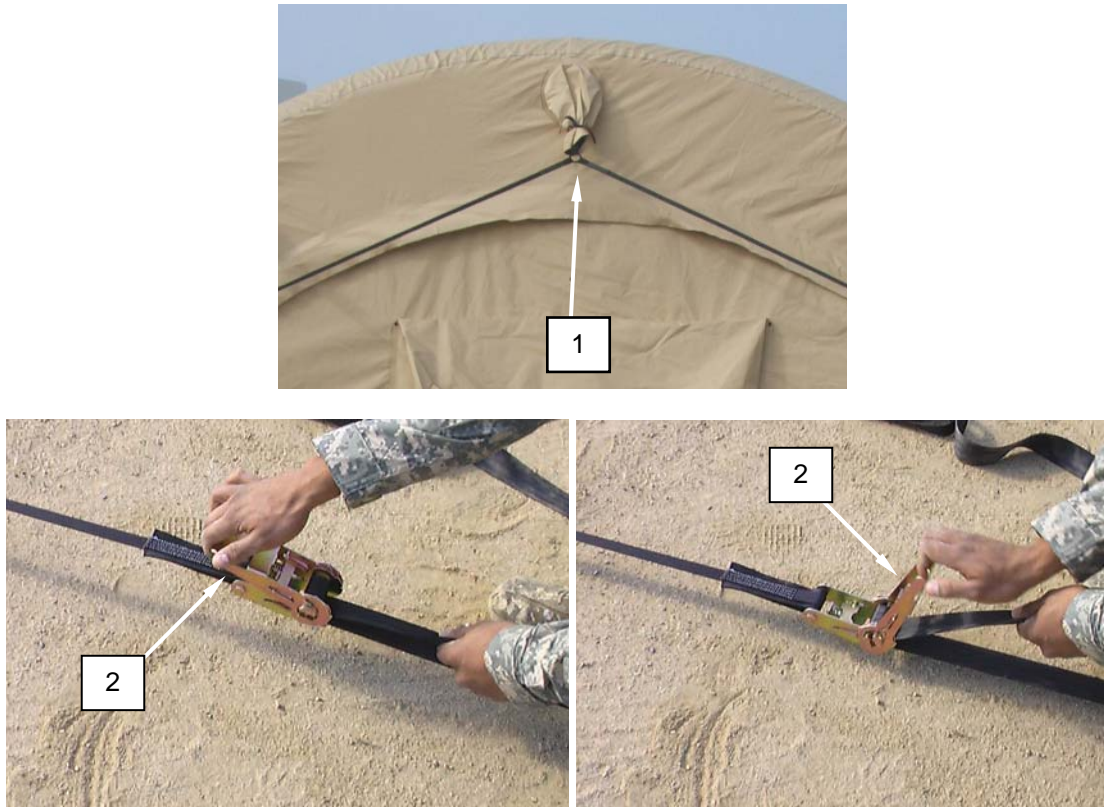


Figure 29. Tighten Snow Strap Tensioning Ratchet.

5. Alternately tighten the left and right snow strap tensioning ratchets until the snow straps are evenly aligned and centered as shown above (Figure 29, Item 1), and the straps are tight.
6. Proceed to the opposite end of the shelter, align and tighten the snow straps as described in Step 4 above, until the snow straps are evenly aligned and centered as shown above (Figure 29, Item 1), and the straps are tight.

END OF TASK

CONNECT AIR COMPRESSOR

NOTE

The air compressor requires 15 amps of 120 VAC and uses a NEMA 5-15 connector.

1. Position the air compressor on the same side of the tent as the inflation manifold at least four feet away from the side of the tent, on the opposite side of the ECU openings (Figure 30).

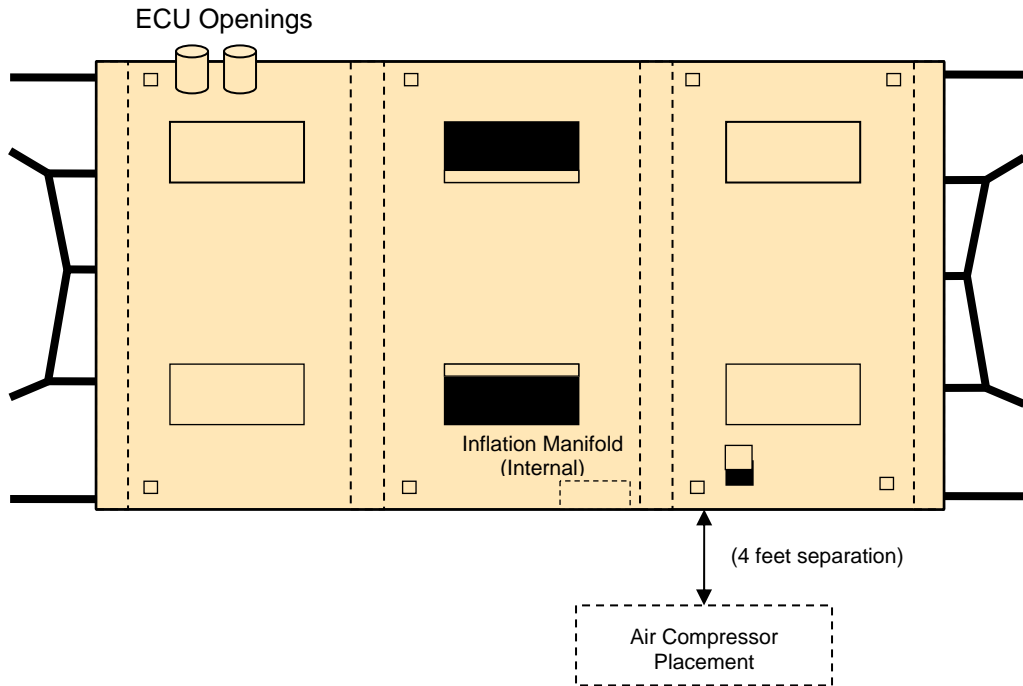


Figure 30. Air Compressor Placement.

2. Connect the air compressor to an external electrical power source (Figure 31).



Figure 31. Connect Air Compressor to Power Source.

CONNECT AIR COMPRESSOR - CONTINUED

3. Locate and unpack the 5-foot long air compressor hose assembly that connects between the inflation air hose and the air compressor.
4. Connect the male quick disconnect (QD) fitting on the 5 foot air compressor hose assembly to the female QD fitting on the air compressor (Figure 32).



Figure 32. Connect Air Compressor Hose to Air Compressor.

CONNECT AIR COMPRESSOR - CONTINUED

NOTE

Ball Valves are open when the valve handle (Figure 33, Item 1) is in-line with the valve body, and closed when the valve handle (Figure 33, Item 2) is across the valve body.



Figure 33. Ball Valve Handle Positions.

5. On the inflation manifold side of the shelter, at each airbeam pigtail inflation valve access pocket (Figure 34, Item 1), ensure that all four airbeam inflation ball valves are open (Figure 34, Item 2).

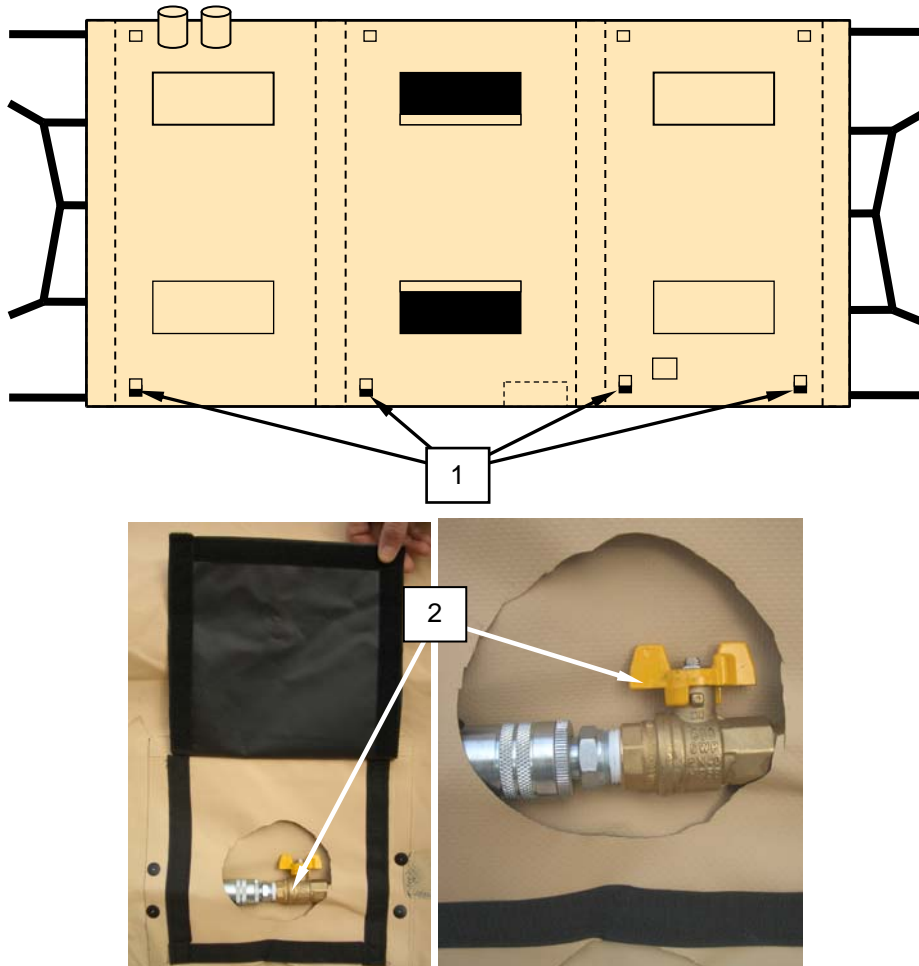


Figure 34. Airbeam Inflation Ball Valves Open.

CONNECT AIR COMPRESSOR - CONTINUED

NOTE

The inflation and deflation air hoses must be pulled out of the manifold hose access pocket. The inflation air hose has the smaller QD fitting, and is the only hose that will mate the 5-foot air compressor hose assembly to the air compressor.

6. Open the manifold hose access pocket (Figure 35, Item 1), and pull the inflation and deflation air hoses (Figure 35, Item 2) out of the pocket.

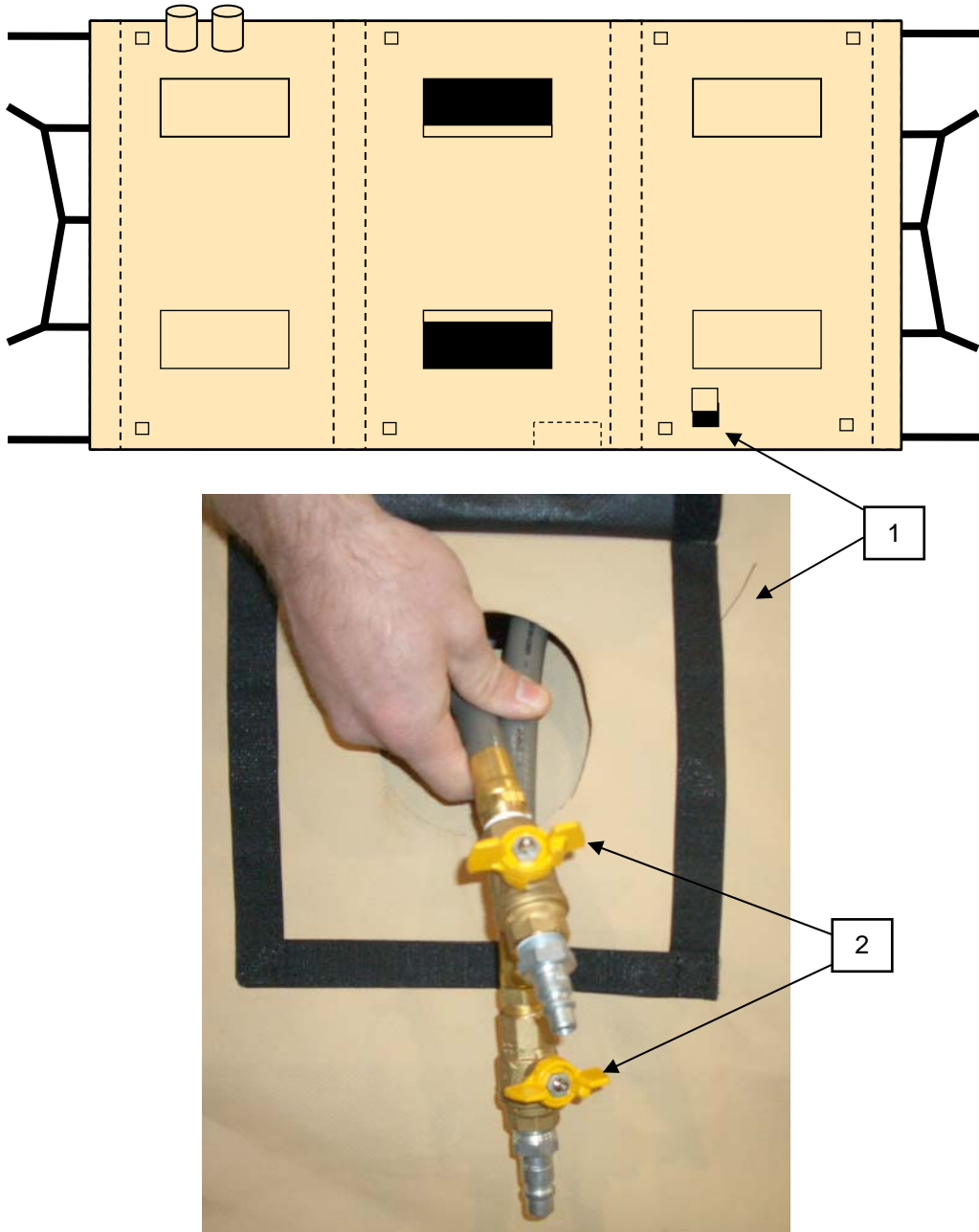


Figure 35. Inflation and Deflation Air Hose Ball Valves Closed.

CONNECT AIR COMPRESSOR - CONTINUED

7. Connect the 5-foot air compressor hose female QD fitting (Figure 36, Item 1) to the inflation air hose male QD fitting (Figure 36, Item 2).

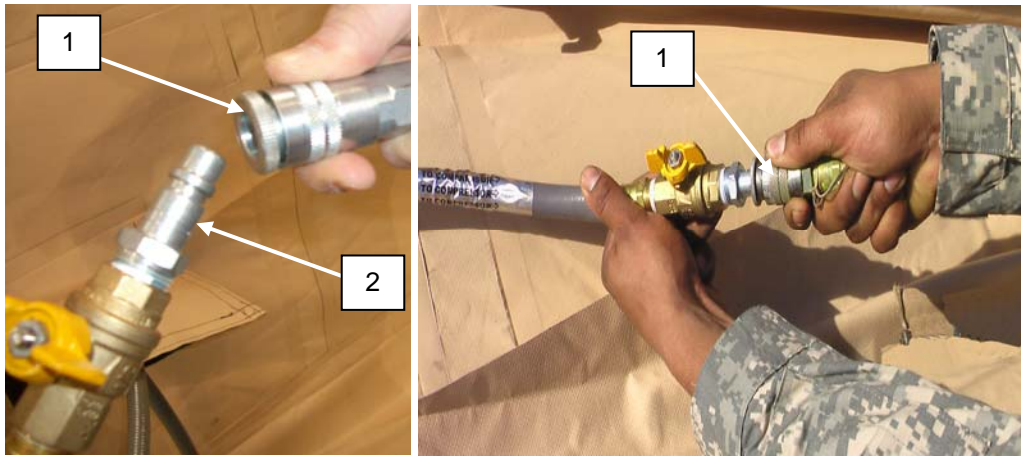


Figure 36. Connect Inflation Air Hose to Air Compressor.

8. Open the inflation air hose ball valve (Figure 37, Item 1).

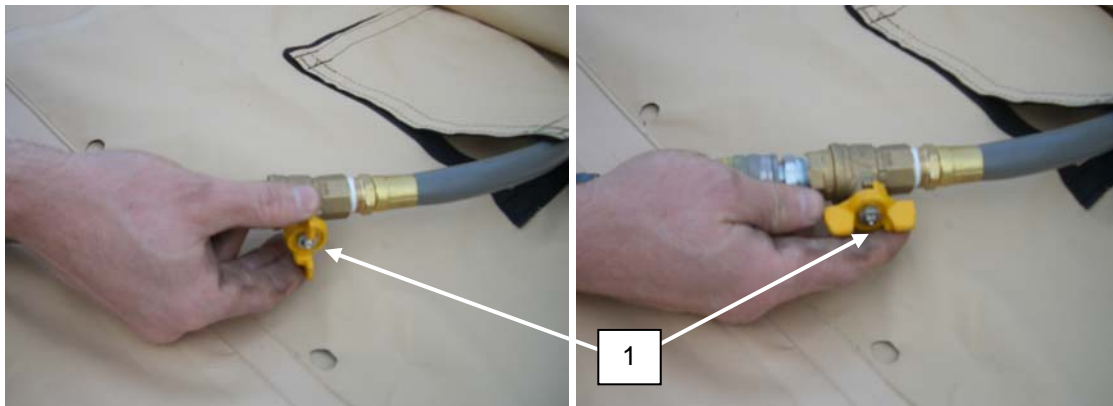


Figure 37. Open Inflation Air Hose Ball Valve.

CONNECT AIR COMPRESSOR - CONTINUED**NOTE**

TEMPER, Air-Supported air pressure is monitored during inflation with a pressure gauge connected to the deflation hose. The air pressure gauge is stored in the manifold hose access pocket.

9. At the manifold hose access pocket, connect the pressure gauge female QD fitting (Figure 38, Item 1) to the deflation air hose male QD fitting (Figure 38, Item 2).

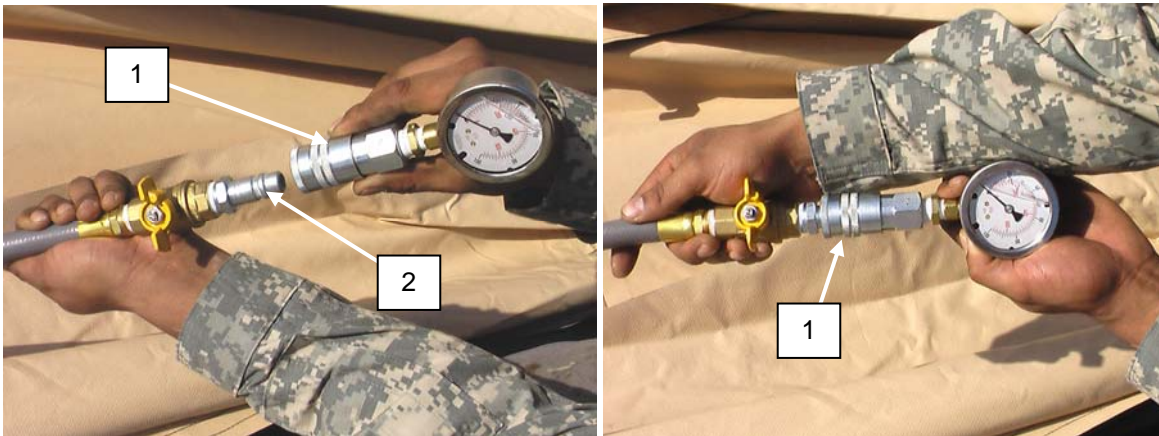


Figure 38. Connect Pressure Gauge to Deflation Air Hose.

10. Open the deflation air hose ball valve (Figure 39, Item 1).

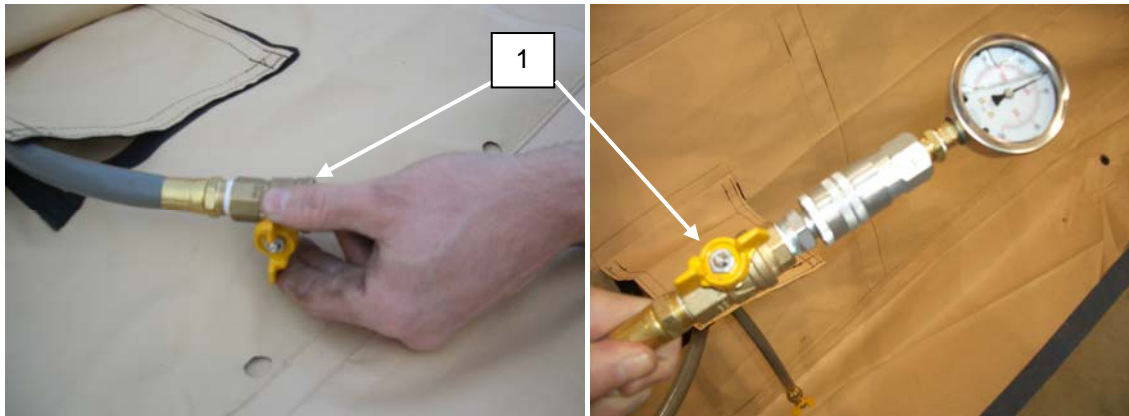


Figure 39. Open Deflation Air Hose Ball Valve.

END OF TASK

PRE-INFLATION REVIEW

1. Prior to inflating the airbeams and the tent, perform the following checks:
2. Ensure that no objects are within a four feet area on either side of the tent skin.

CAUTION

Do not adjust the top ratchets until the airbeams are inflated to 25-30 psi.

3. Ensure that the upper ratchet external bracing straps (Figure 40, Item 1) are connected but loose.

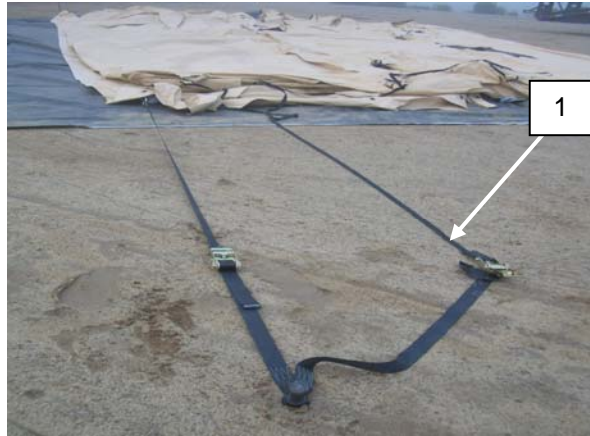


Figure 40. Upper Ratchet External Bracing Straps Attached and Loose.

NOTE

External bracing strap tensioning ratchets are preset at the factory to the correct length for TEMPER, Air-Supported shelter inflation. Only minor adjustment of strap length should be needed.

4. At the upper tensioning ratchets, release the ratchet (Figure 41, Item 1), pull tension, and ensure that approximately 12 inches of strap extends from the tensioning ratchet.



Figure 41. Tensioning Ratchet Strap Excess.

END OF TASK

INFLATE TEMPER, AIR-SUPPORTED**CAUTION**

One observer should be positioned at each end of the tent end while the tent is inflating to detect any problems. Failure to perform this action could result in damage to the equipment or failure in the structural integrity of the tent.

NOTE

The shelter airbeams pop up and into initial position unassisted at 12-15 psi, which takes 10-12 minutes. If the airbeams are manually assisted by lifting them into position, the tent will come up at 5-7 psi after about 7-8 minutes.

1. Turn the air compressor on to begin inflating the TEMPER, Air-Supported (Figure 42).



Figure 42. Turn On Air Compressor.

NOTE

During inflation, the TEMPER, Air-Supported inflation pressure is monitored at the air pressure gauge connected to the deflation hose.

2. Monitor the inflation pressure at the deflation air hose air pressure gauge (Figure 43, Item 1).

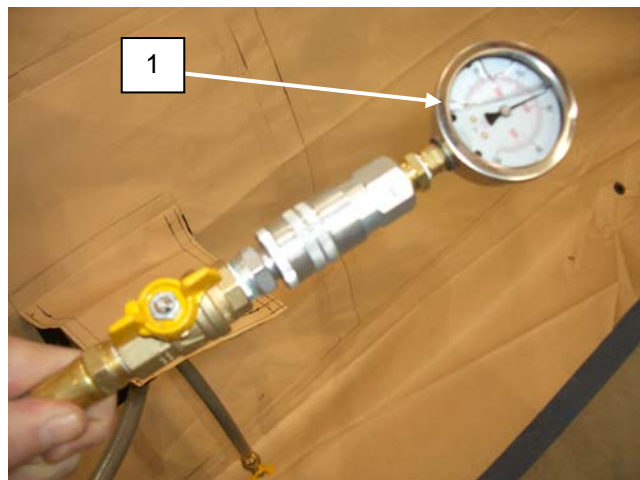


Figure 43. Deflation Air Hose Pressure Gauge.

INFLATE TEMPER, AIR-SUPPORTED - CONTINUED

3. When the inflation pressure in the tent reaches 7 psi, position one person at each end of the tent (Figure 44), to manually adjust airbeams during inflation.



Figure 44. Tent Inflated to 7-10 psi.

NOTE

It may be necessary to manually lift the airbeams on both ends of the tent several times to detect when the airbeams are ready to snap into position.

4. Manually lift, first one end airbeam, then the other end airbeam, to assist them into place (Figure 45).



Figure 45. Assisting the End Air Beams into Position.

INFLATE TEMPER, AIR-SUPPORTED - CONTINUED

5. Continue to monitor and assist airbeams as they inflate into position (Figure 46).



Figure 46. Inflated Airbeams.

6. At the manifold hose access pocket, using the air pressure gauge (Figure 47), verify that the TEMPER, Air-Supported is inflated to 50 psi.



Figure 47. Monitor Inflation Pressure.

END OF TASK

DISCONNECT AIR COMPRESSOR**NOTE**

After the TEMPER, Supported airbeams reach 50 psig, the air compressor can be shut off and disconnected, or allowed to continue running to refill the compressor tank until approximately 120 psi is reached, when the air compressor will automatically shut off.

1. After the TEMPER, Air Supported reaches 50 psig, turn off the air compressor (Figure 48).



Figure 48. Turn Off Air Compressor.

2. At the manifold hose access panel, close the inflation hose ball valve (Figure 49, Item 1).

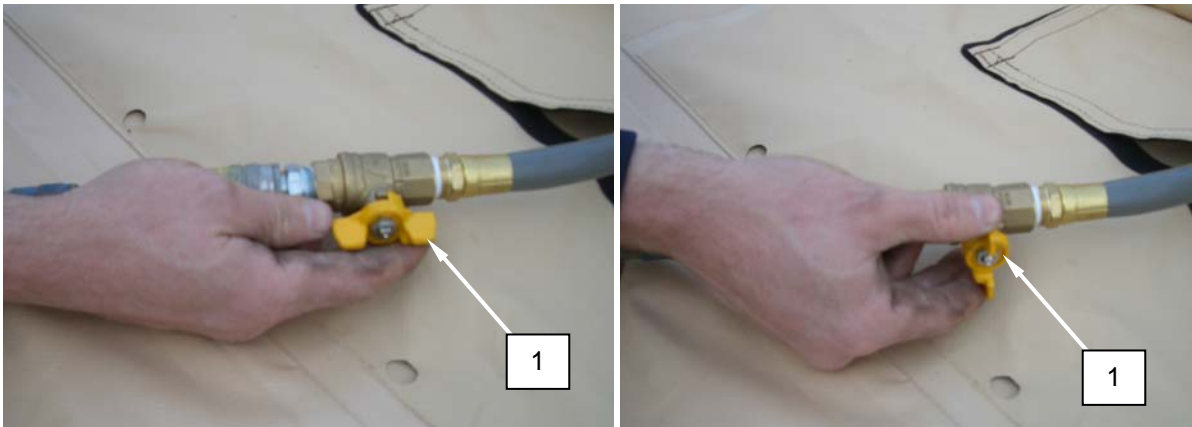


Figure 49. Close Inflation Hose Ball Valve.

DISCONNECT AIR COMPRESSOR - CONTINUED

3. Disconnect the female QD fitting on the 5-foot air compressor hose assembly (Figure 50, Item 1) from the male QD fitting on the inflation air hose (Figure 50, Item 2).



Figure 50. Disconnect Inflation Air Hose from Adapter Hose.

4. At the deflation air hose, close the deflation air hose ball valve (Figure 51, Item 1).

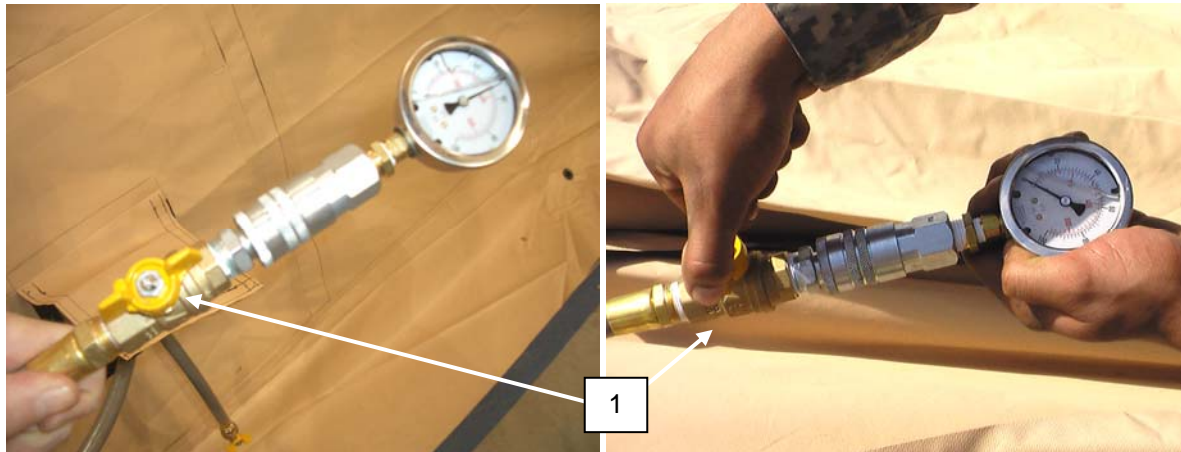


Figure 51. Close Deflation Air Hose Ball Valve.

DISCONNECT AIR COMPRESSOR - CONTINUED

5. Disconnect the pressure gauge female QD fitting (Figure 52, Item 1) from the deflation air hose male QD fitting (Figure 52, Item 2).

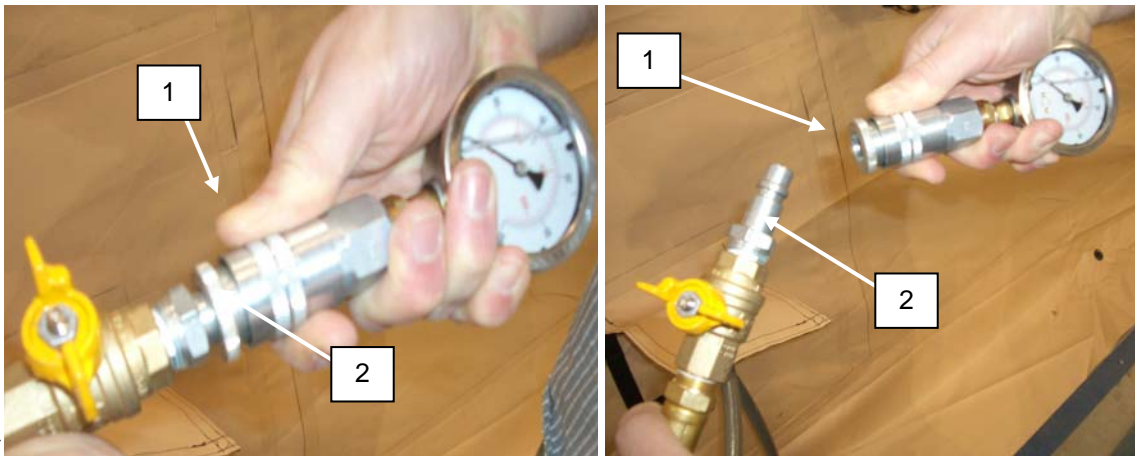


Figure 52. Disconnect Pressure Gauge from Deflation Air Hose.

6. Retain the pressure gauge in the hose pocket for later use in this Work Package setup procedure.
7. Disconnect the male QD fitting on the 5-foot air compressor hose assembly (Figure 53, Item 1) from the female QD fitting on the air compressor (Figure 53, Item 2).



Figure 53. Disconnect Adapter Hose from Air Compressor.

8. Disconnect the power source from the air compressor.
9. Stow the 5-foot air compressor hose in the inflation hose access pocket.
10. Stow the air compressor.

DISCONNECT AIR COMPRESSOR - CONTINUED

11. At the manifold hose access pocket, stow the inflation air hose (Figure 54, Item 1) and deflation air hose (Figure 54, Item 2) inside the hose access pocket (Figure 54, Item 3).

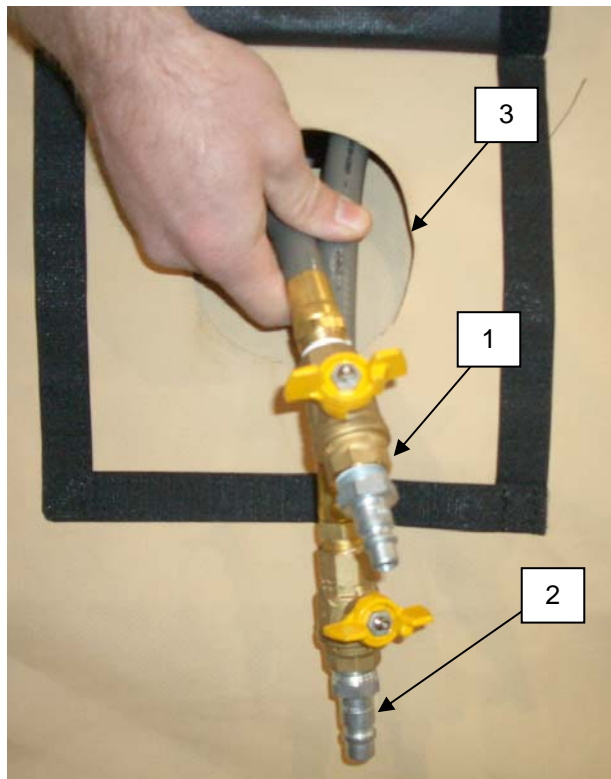


Figure 54. Stow Inflation and Deflation Air Hoses.

DISCONNECT AIR COMPRESSOR - CONTINUED

12. On the inflation manifold side of the tent, at each airbeam access pocket (Figure 55, Item 1), close all four airbeam inflation pigtail ball valves (Figure 55, Item 2) to isolate the four inflated airbeams.

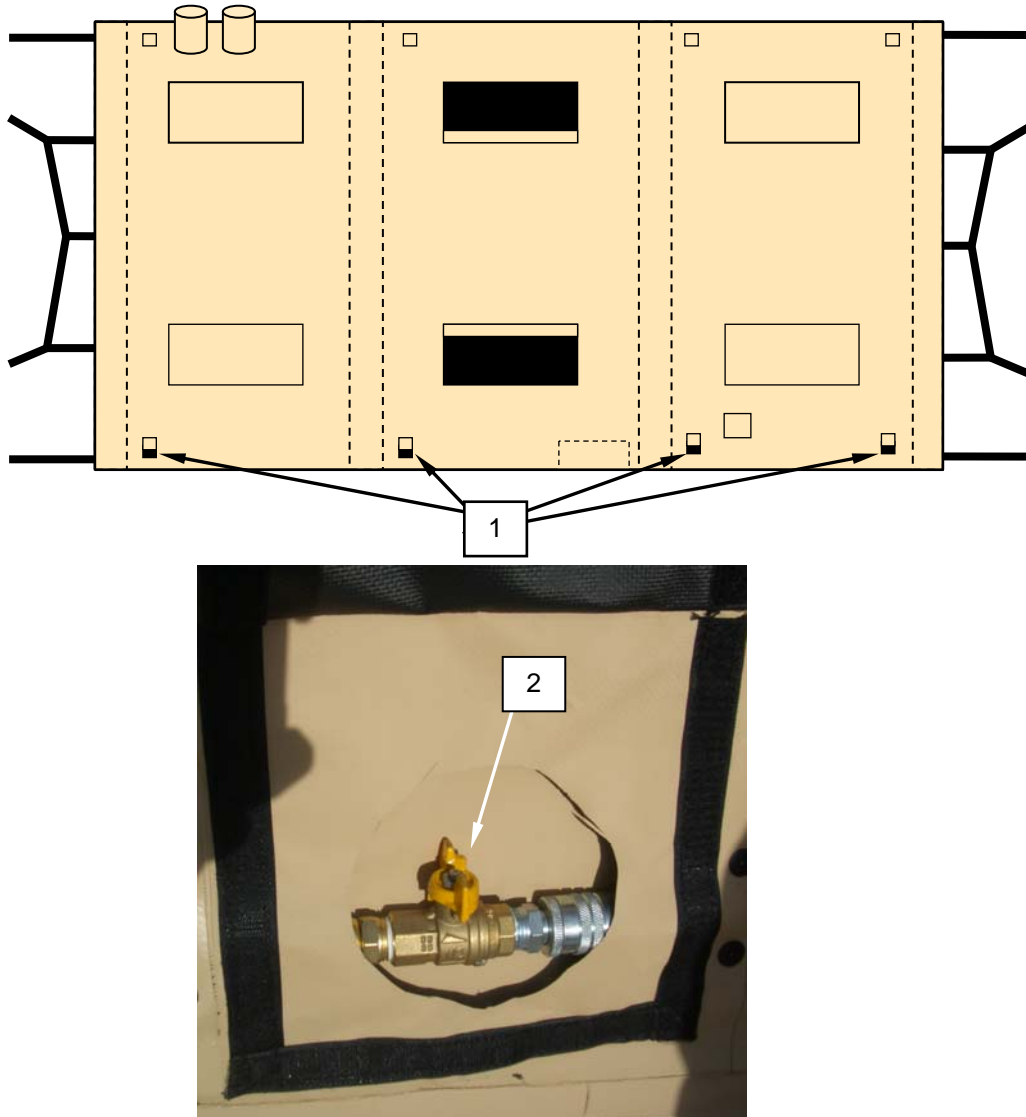


Figure 55. Airbeam Inflation Pigtail Ball Valves Closed.

END OF TASK

TENSION OUTER SKIN

NOTE

The TEMPER, Air-Supported tent is first tensioned with upper and lower ratchet external bracing straps on the door end of the tent, followed by staking and tensioning of side straps attached externally along the tent on both sides of each airbeam.

1. At the door end of the tent, on both of the upper ratchet external bracing straps (Figure 56, Item 1), pull on the bail handle to unlock the ratchet, grasp the strap end extending from the tensioning ratchet (Figure 56, Item 2), and pull out the slack in both straps until the straps are hand tight.

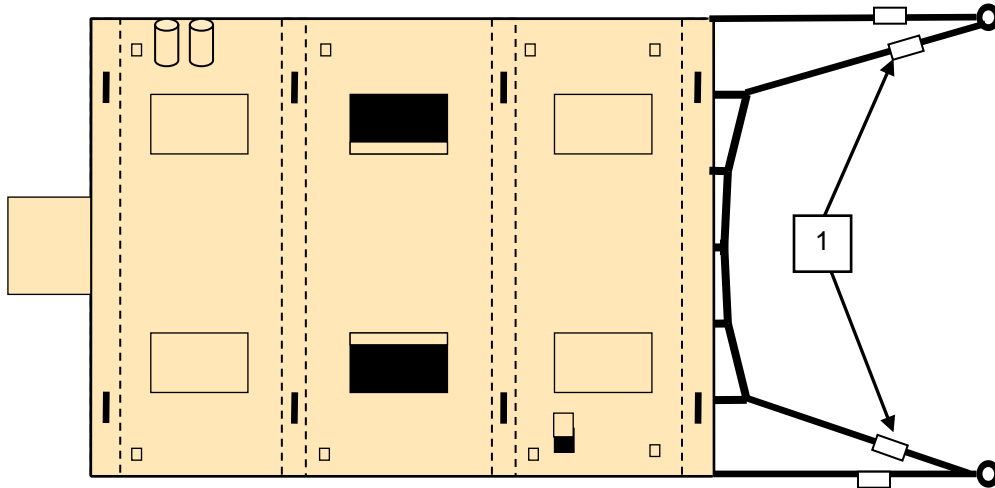


Figure 56. Door End External Bracing Straps.

TENSION OUTER SKIN - CONTINUED

NOTE

During tensioning of outer skin, the tent is aligned visually using the connection snouts (Figure 57, Item 1) at the top of the tent. Alternately tightening the left and right tensioning ratchets aligns and centers the external bracing straps on the connection snouts until they point straight away from the tent, as shown below, properly aligned and centered (Figure 57).

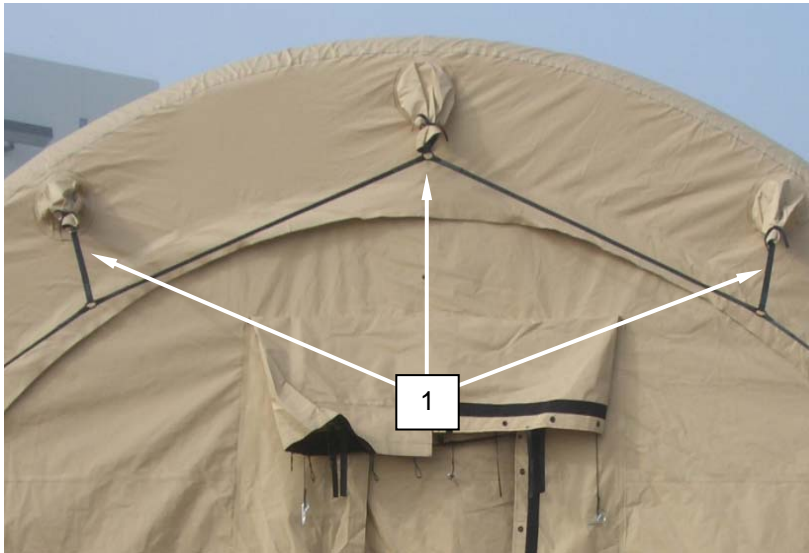


Figure 57. External Bracing Tensioned.

- At either of the upper ratchet external bracing strap tensioning ratchets, grasp the bail handle (Figure 58, Item 1), and pull up and back in a ratcheting motion (Figure 58, Item 2) to tighten the strap.

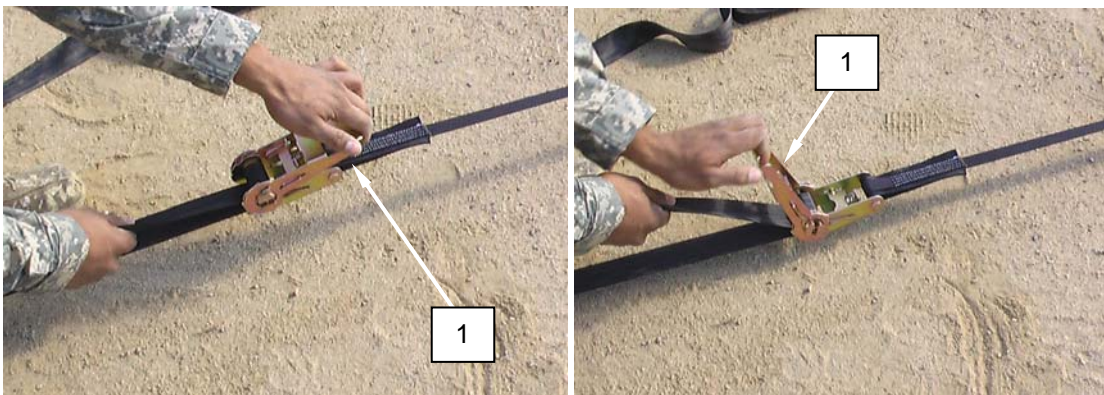


Figure 58. Tighten Upper Ratchet External Bracing Strap.

- Alternately tighten the left and right upper ratchet external bracing strap tensioning ratchets until the shelter is evenly aligned and centered as shown above (Figure 57, Item 1), and the straps are tight. Tighten until the tent outer skin is taut with no wrinkles.

TENSION OUTER SKIN - CONTINUED

4. At both lower ratchet external bracing straps (Figure 59, Item 1), re-tighten the tensioning ratchets (Figure 59, Item 2), removing any slack created when the upper ratchet external bracing straps were tensioned.

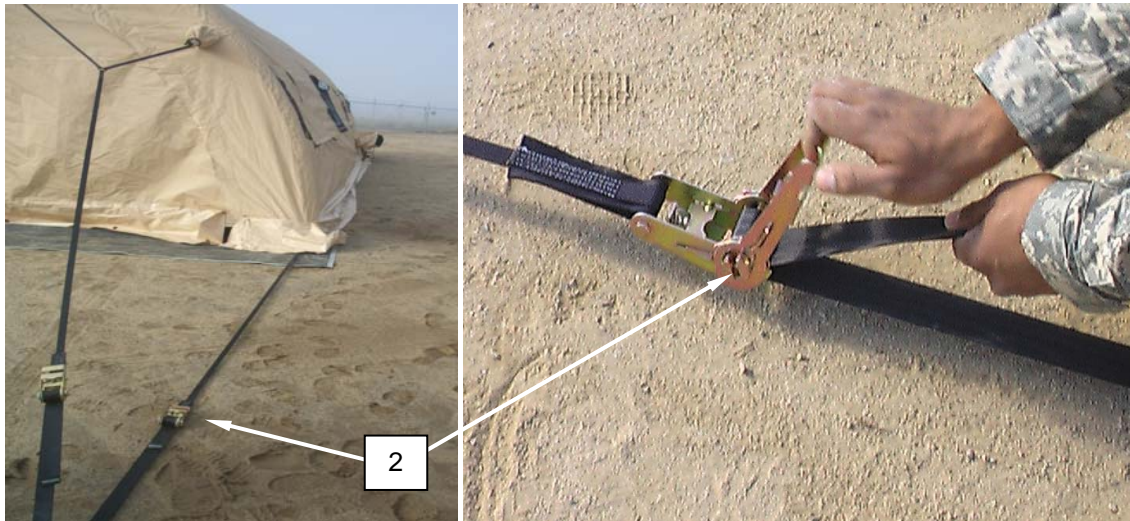
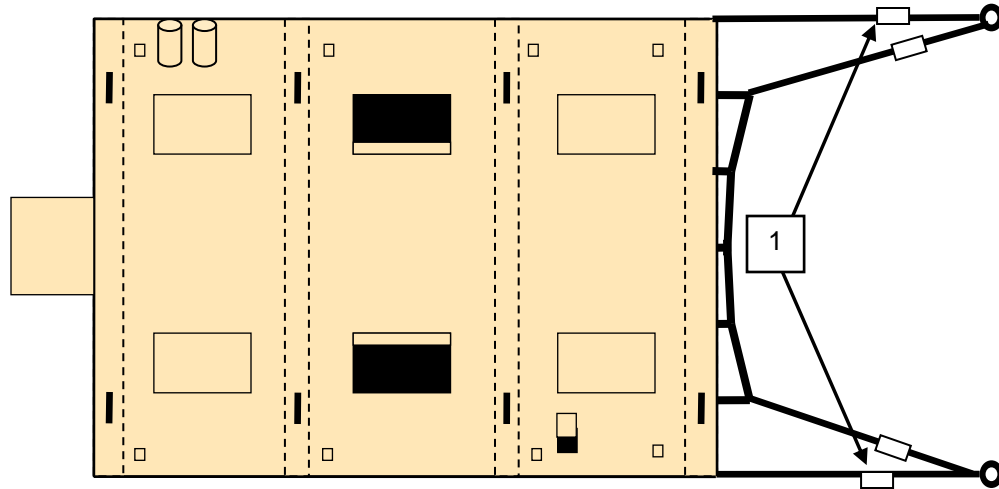


Figure 59. Tighten Lower Ratchet External Bracing Straps.

END OF TASK

ERECTING TEMPER VESTIBULE**WARNING**

Sharp edges or burrs may be present on vestibule frame components. Exercise care when handling vestibule frame components. Failure to do so may result in injury to personnel or damage to equipment.

NOTE

The TEMPER, Air-Supported is provided with a standard TEMPER vestibule. These vestibule erection steps detail installation of the vestibule frames, floor section, vestibule door and guy lines.

1. Open and inventory vestibule kit contents (Figure 60). Verify the following vestibule components:
 - a. Three vestibule frame sections, each frame section consisting of:
 - (1) Two vestibule frame section legs (Figure 60, Item 1) with attached hitch clip pins.
 - (2) One vestibule header (Figure 60, Item 2).
 - b. One vestibule door panel (Figure 60, Item 3).
 - c. One vestibule floor section (Figure 60, Item 4).
 - d. Four vestibule external bracing ropes (Figure 60, Item 5), 16 foot ropes with plastic tent slips.

NOTE

The vestibule erection requires four of the sixteen tent pins provided in the TEMPER vestibule kit. The remaining tent pins are used later in this Work Package.

- e. One small stake bag containing 16 hooked tent pins (Figure 60, Item 6).

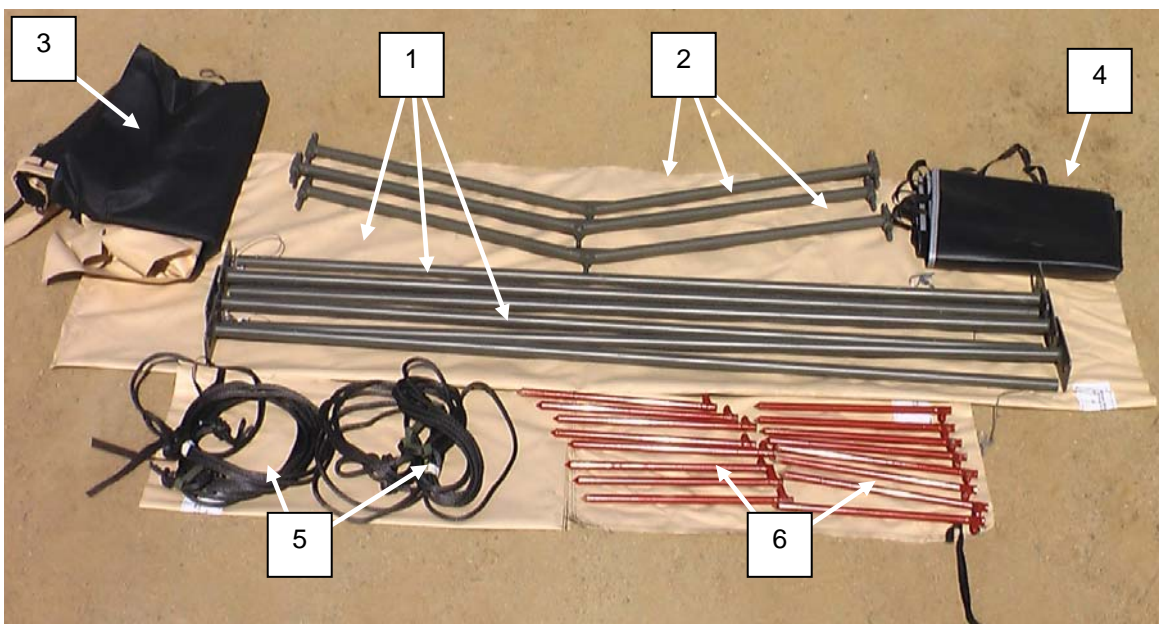


Figure 60. TEMPER Vestibule Kit.

ERECTING TEMPER VESTIBULE - CONTINUED**NOTE**

For best results, connect each vestibule frame together outside of the vestibule, then move them inside vestibule to place them properly.

2. Insert one end of a frame header (Figure 61, Item 1) into a frame leg (Figure 61, Item 2).

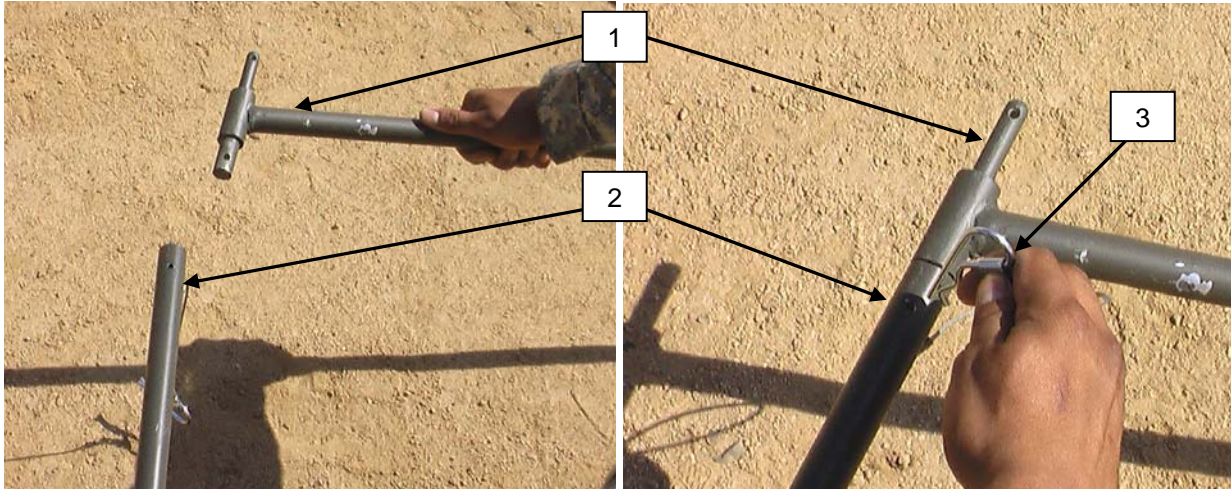


Figure 61. Assemble Vestibule Frame.

3. Rotate the frame leg to align the hole in the frame leg with the hole in the frame header.

WARNING

Hitch clip pin ends may be burred or sharp. Orient hitch clip pins towards the inside of the vestibule when fastening vestibule frame components together. Failure to do so may result in injury to personnel or tears to vestibule fabric.

4. Insert the attached hitch clip pin (Figure 61, Item 3) through the aligned hole in the frame leg and header.
5. Repeat Steps 2 through 4 for the frame leg on the opposite side of the vestibule frame section.
6. Repeat Steps 2 through 5 for the remaining two vestibule frame sections.

ERECTING TEMPER VESTIBULE - CONTINUED

WARNING

Vestibule components may be burred or sharp. Be careful when moving metal frame sections into the vestibule. Failure to do so may result in injury to personnel or tears to vestibule fabric.

NOTE

Use two people (one person inside, one person outside) to install vestibule frames from the tent end moving outwards, securing the hitch clip pins and staking the guy lines.

- Carefully bring a vestibule frame (Figure 62, Item 1) underneath the vestibule (Figure 62, Item 2) and place at the tent end of the vestibule.

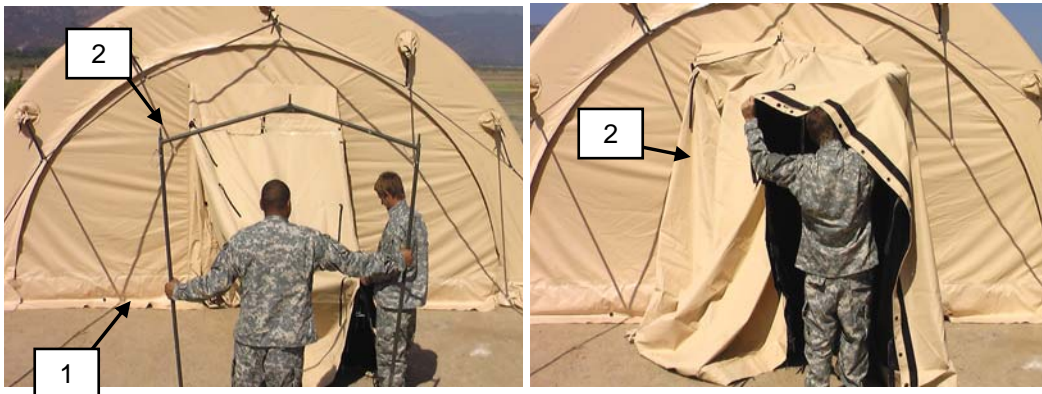


Figure 62. Position Vestibule Frame.

NOTE

Use two people to align and secure vestibule header spindles and grommets with exterior hitch clip pins.

- Place the frame header center (peak) spindle (Figure 63, Item 1) through the center grommet (Figure 63, Item 2) at the rear of the vestibule, and through the center grommet in the tent end panel door header flap (Figure 63, Item 3).

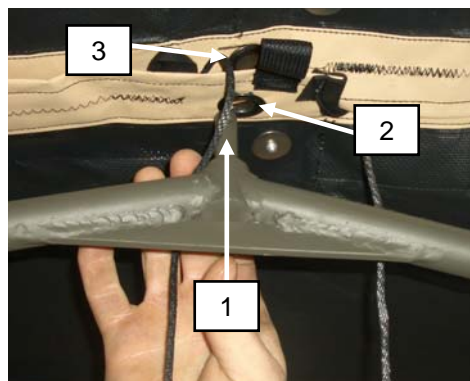


Figure 63. Place Center Vestibule Frame Spindle through Grommets.

ERECTING TEMPER VESTIBULE - CONTINUED**NOTE**

Exterior hitch clip pins are attached to the TEMPER, Air-Supported door header panel with lanyards.

9. From the outside, at the tent end of the vestibule, fasten the center hitch clip pin (Figure 64, Item 1) through the hole in the center spindle of the vestibule frame header (Figure 64, Item 1).

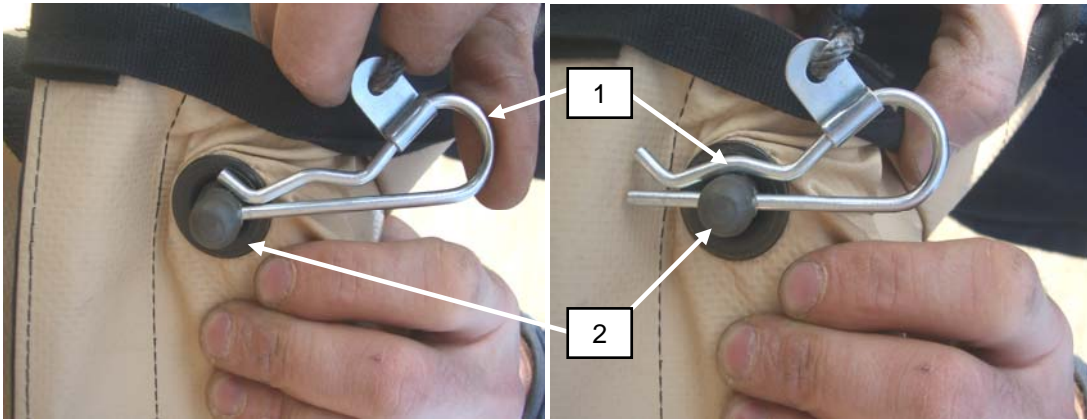


Figure 64. Fasten Hitch Clip Pin to Vestibule Frame Spindle.

10. Place the left and right vestibule frame header spindles (Figure 65, Item 1) through the grommets in the vestibule material (Figure 65, Item 2), and the grommets in the tent end panel door header flap.

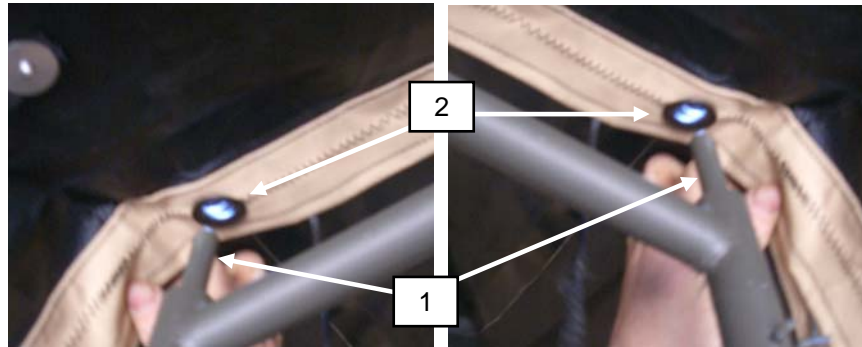


Figure 65. Place Vestibule Frame Spindles through Grommets.

11. On the outside of the vestibule, fasten the left and right hitch clip pins through the holes in the left and right spindles of the vestibule frame header (Figure 65, Item 1).
12. Repeat Steps 7 - 11 for the center and end vestibule frames.

ERECTING TEMPER VESTIBULE - CONTINUED**NOTE**

The vestibule door panel (Figure 66) is attached to the vestibule by first placing three of the door panel grommets onto the vestibule frame spindles inside the vestibule grommets, then becket lacing the vestibule end panel to the vestibule.

The door panel has becket lacing loops on one side, and grommets on the other, to mate with the end of the TEMPER vestibule.



Figure 66. TEMPER Vestibule End Panel.

13. Position the vestibule end panel with the becket lacing loops (Figure 67, Item 1) and grommets (Figure 67, Item 2) aligned with the becket lacing loops and grommets on the vestibule material.

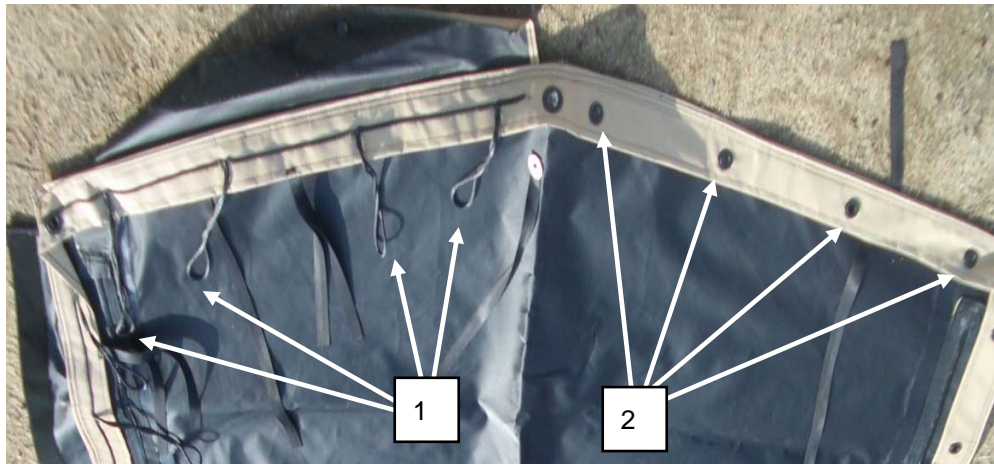


Figure 67. Vestibule End Panel Becket Lace Loops.

ERECTING TEMPER VESTIBULE - CONTINUED

NOTE

Position door panel grommets inside the vestibule grommets on the frame spindles.

14. At the outside vestibule door, remove the center hitch clip pin from the center frame spindle (Figure 68, Item 1), and place the vestibule end panel center grommet (Figure 68, Item 2) onto the spindle, sandwiching the door panel grommets on the vestibule. Do not fasten the hitch clip pin.
15. Repeat for the outer grommets and spindles.

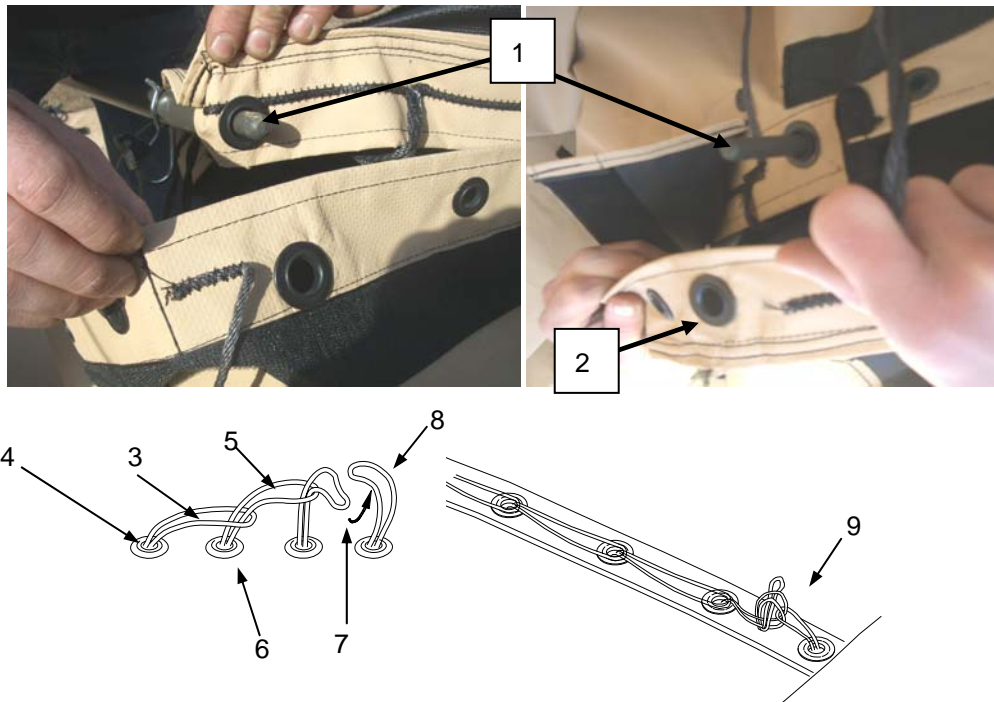


Figure 68. Attach Vestibule Door Panel.

16. From the outside, lace the vestibule end panel into the end of the vestibule from the peak to the bottom of each side, using the becket lacing method (Figure 68, Item 3), as follows:
 - a. Beginning at the top center of the end panel, pull the first becket lace (Figure 68, Item 3) through the top aligned grommet in the vestibule material (Figure 68, Item 4).
 - b. Thread second becket lace (Figure 68, Item 5) through second vestibule grommet (Figure 68, Item 6), and through the first becket lace loop, pulling it tight toward the bottom of the end panel.
 - c. Continue this procedure until the bottom of the end panel is reached. As the lacing progresses, close the hook and pile wind flap on the vestibule panel over the becket lacing.
 - d. Upon reaching the last becket lace on the end panel at the bottom of the vestibule, thread the last becket lace (Figure 68, Item 6) through the last vestibule grommet.
 - e. Insert next-to-last becket lace (Figure 68, Item 7) through last becket lace loop (Figure 68, Item 8).
 - f. Pull the next-to-last becket lace tight back toward the top of the vestibule and tie it off with a half-hitch knot (Figure 63, Item 9). Seal the remaining section of the vestibule hook and pile wind flap.
17. Repeat Steps a. through f. to becket lace the opposite side of the vestibule end section.
18. From the outside, fasten the outer hitch clip pins on the vestibule frame.

ERECTING TEMPER VESTIBULE - CONTINUED

NOTE

Staking and tensioning of vestibule guy lines is essential to secure the vestibule in the event of inclement weather, particularly in strong winds.

There are two guy lines in the vestibule kit, one for each vestibule corner.

19. At the outside corner of the vestibule, pass the plastic tent slip (Figure 69, Item 1) end of the guy line (Figure 69, Item 2) over the corner vestibule frame spindle (Figure 69, Item 3).
20. Rotate the plastic tent slip (Figure 69, Item 1) to relax tension.

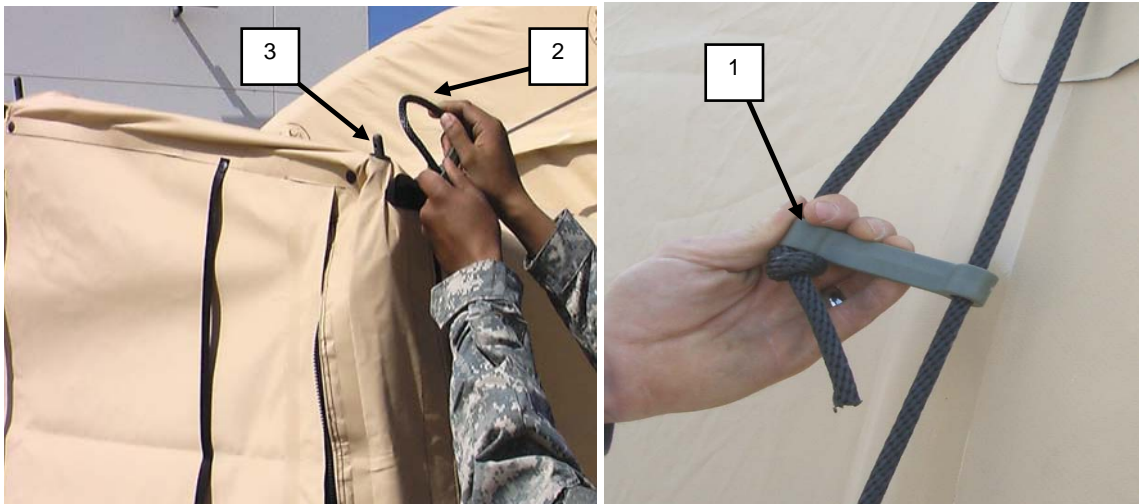


Figure 69. Plastic Tent Slip.

21. Extend the vestibule guy lines (Figure 70, Item 1) at a 45 degree angle outward from the vestibule.

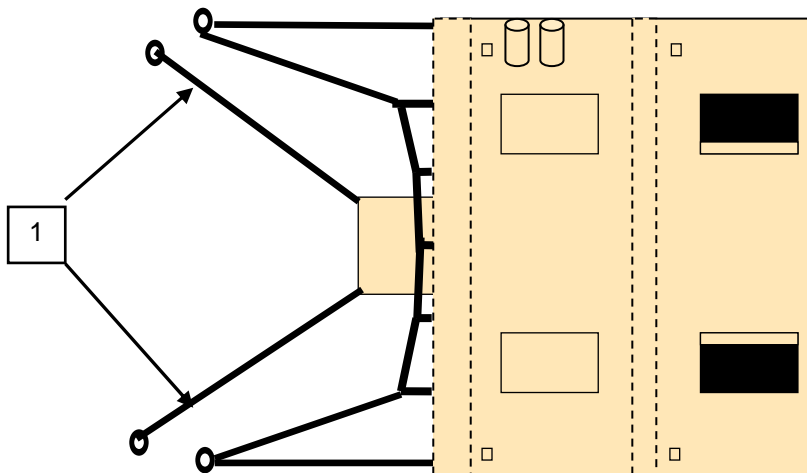


Figure 70. Vestibule Guy Line Locations.

ERECTING TEMPER VESTIBULE - CONTINUED

22. Pass a tent pin through the loop end of the guy line (Figure 71, Item 1) and with a sledge hammer, drive the tent pin into the ground until the hook end of the pin traps the guy line.
23. Pull down on the plastic tent slip (Figure 71, Item 2) to tension the guy line, and turn the tent slip upward to engage the line and hold the guy line tension.



Figure 71. Staking Vestibule Guy Lines.

24. Repeat Steps 19 through 23 to attach the second guy line on the opposite corner of the vestibule.
25. At the lower outside corners of the vestibule end panel, release the two plastic clips (Figure 72, Item 1) that fasten the vestibule outer door to the vestibule end panel.

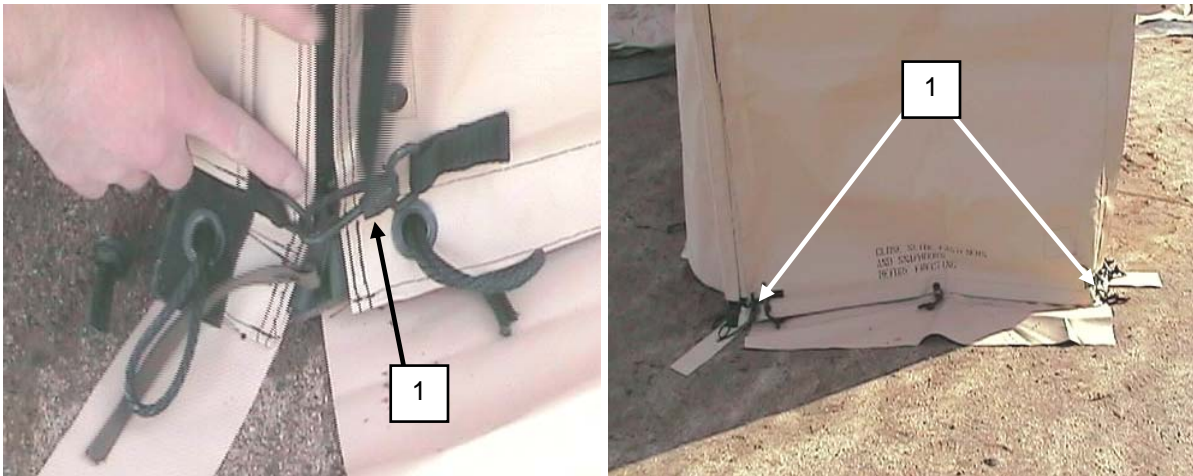


Figure 72. Release Vestibule Door Clips.

ERECTING TEMPER VESTIBULE - CONTINUED

26. At the lower outside corners of the vestibule end panel, unzip the two zippers (Figure 73, Item 1) that fasten the vestibule outer door to the vestibule end panel.

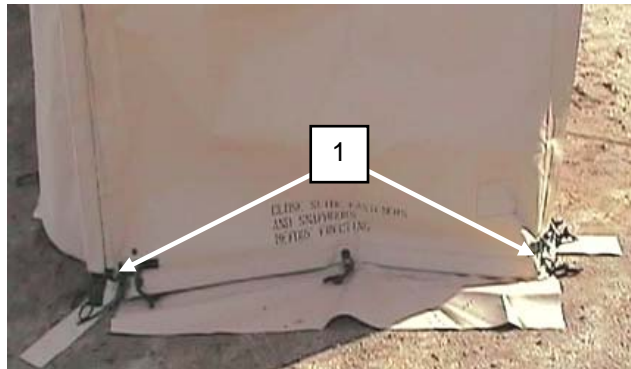


Figure 73. Unzip Vestibule Door.

27. Roll up the vestibule door panel (Figure 74, Item 1), and tie the door panel in place using the three ties (Figure 74, Item 2) attached to the top of the vestibule end panel above the door.



Figure 74. Roll Up Vestibule Door.

NOTE

Vestibule frame leg base plates are placed (not staked) on top of the interior mud flaps.

28. At each vestibule frame leg, lift and place the frame leg base (Figure 75, Item 1) on top of the vestibule mud flap material. (Figure 75, Item 2).

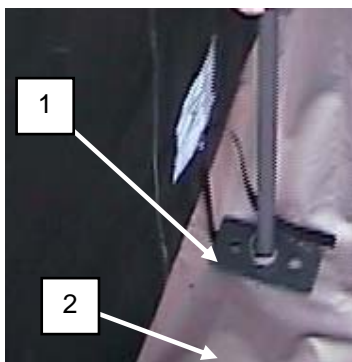


Figure 75. Position Vestibule Frame Leg Base on Mud Flap.

ERECTING TEMPER VESTIBULE - CONTINUED

NOTE

Eight ties per vestibule frame are attached to the inside vestibule material.

29. Using the ties (Figure 76, Item 1) attached to the vestibule material, tie each vestibule frame (Figure 76, Item 2) to the vestibule material with the eight ties per frame provided.

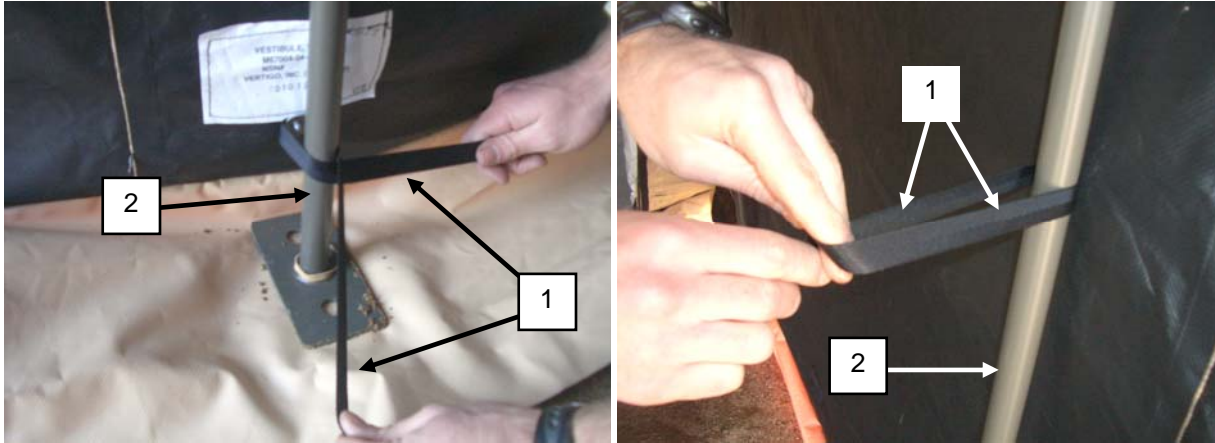


Figure 76. Tie Vestibule Frames to Vestibule Material.

30. Unfold and lay out vestibule floor panel (Figure 77, Item 1) with the black side down, in the vestibule. Align the floor ties (Figure 77, Item 2) with the vestibule frame legs (Figure 77, Item 3).
31. Using the six ties (Figure 77, Item 2) attached to the floor panel, tie a floor panel tie to each vestibule frame leg (Figure 77, Item 3), and attach hook and loop fastening strips to the vestibule.

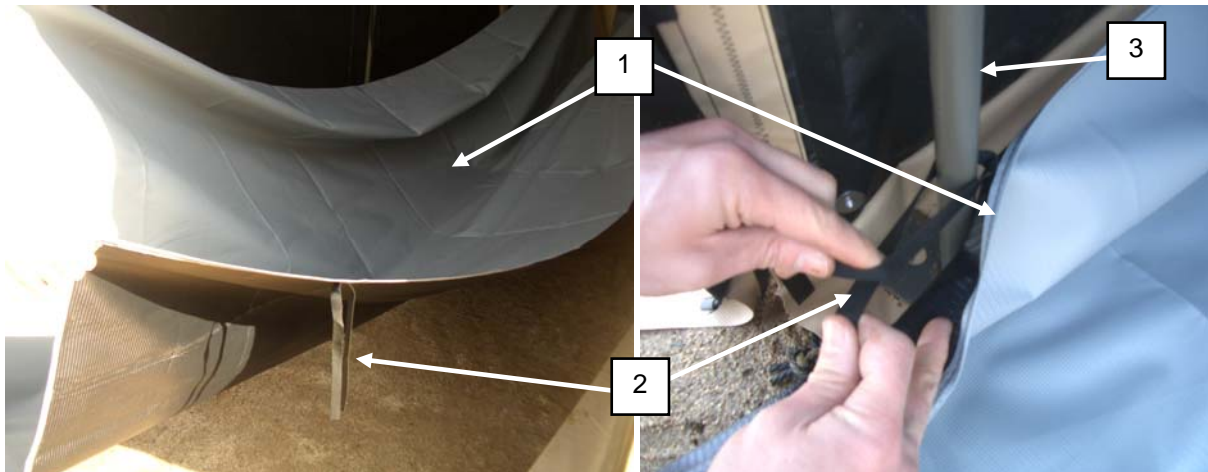


Figure 77. Position Vestibule Floor Panel.

ERECTING TEMPER VESTIBULE - CONTINUED

32. Inside the vestibule at the tent end panel, on both sides of the door panel, open the hook and loop fasteners (Figure 78, Item 1) covering the door panel zippers, and open the door panel side zippers (Figure 78, Item 2).

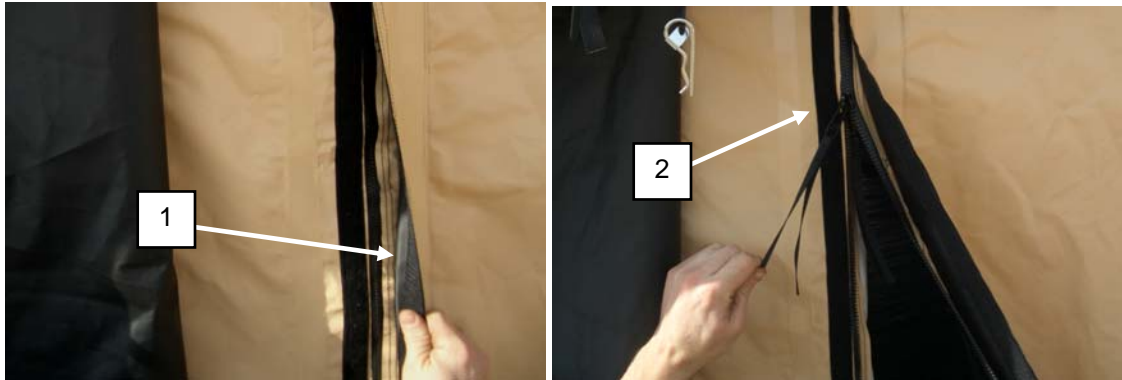


Figure 78. Open TEMPER, Air-Supported Door Panel.

33. Roll up the tent door panel (Figure 79, Item 1), and tie the door panel in place using the two ties (Figure 79, Item 2) attached to the inside and outside of the tent outer skin above the door.

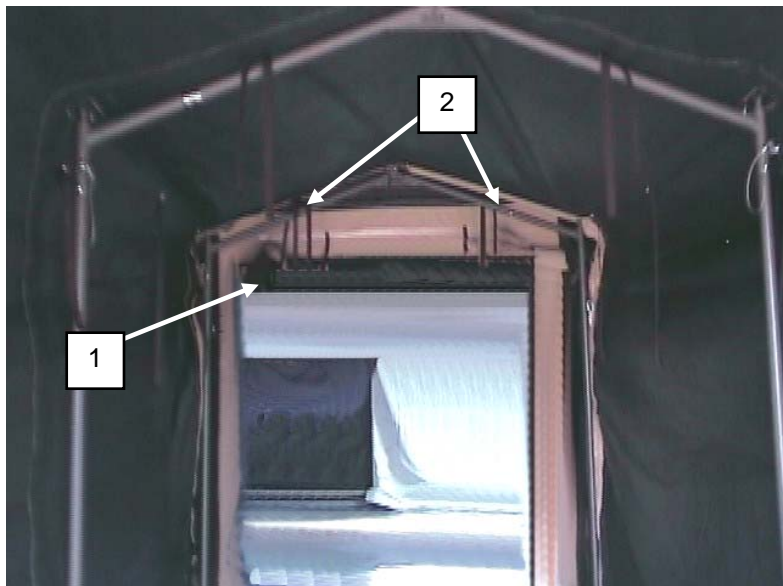


Figure 79. Roll Up Tent Door Panel.

END OF TASK

STAKE SIDE ROPES

NOTE

Staking and tensioning the side ropes are essential to secure the TEMPER, Air-Supported in the event of inclement weather, particularly in strong winds.

There are two side ropes for each airbeam, one attached to each side. Four airbeam tents have a total of eight side ropes. Three airbeam tents have six side ropes.

1. Untie the side ropes (Figure 80, Item 1) attached to the airbeams.

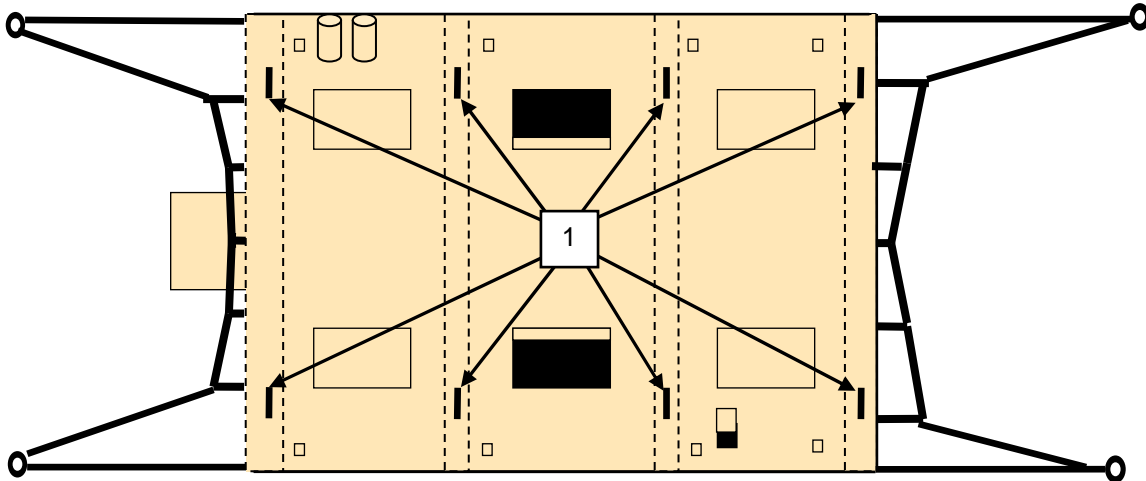


Figure 80. Side Ropes.

STAKE SIDE ROPES - CONTINUED

2. Relax the plastic tent slip (Figure 81, Item 1), and extend the side rope (Figure 81, Item 2) to the ground in line with the airbeam extending approximately 18 inches from the side of the tent.
3. Attach the side rope end loop to a tent pin (Figure 81, Item 3) and drive the pin into the ground until the hook end of the pin traps the side rope end loop.

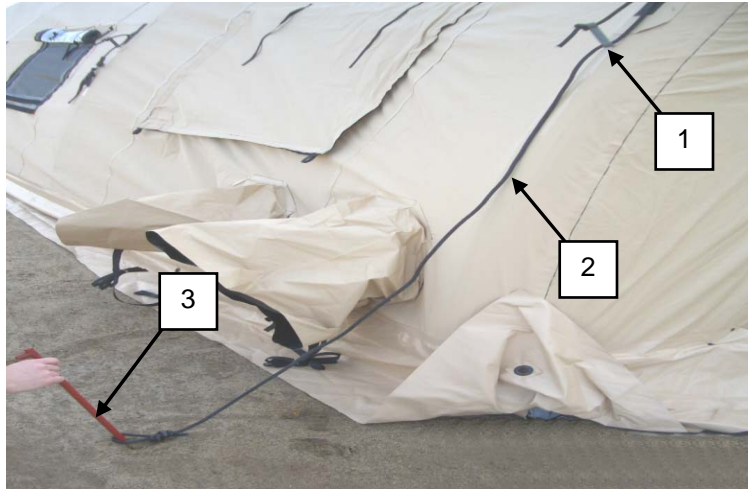


Figure 81. Staking Side Rope.

4. At the plastic tent slip end of the side rope (Figure 82, Item 1), pull down on the side rope to tension it and turn the tent slip upward to engage the side rope and hold the side rope tension.

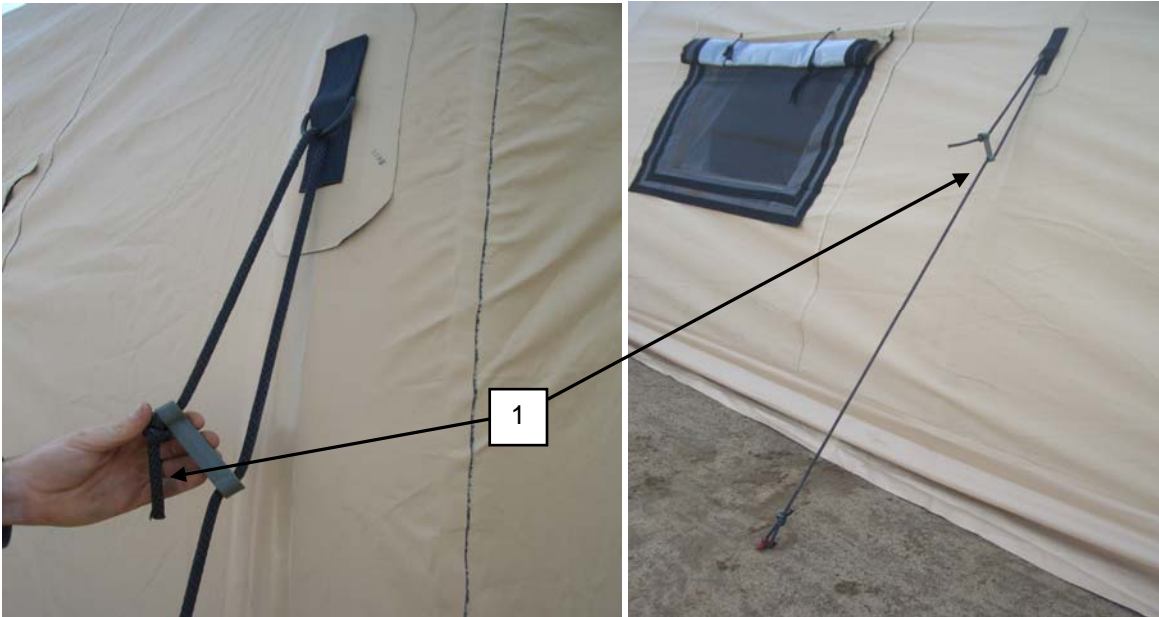


Figure 82. Tensioning Side Rope.

5. Repeat Steps 2 through 4 for the remaining side ropes.

END OF TASK

STAKE MUD FLAPS**NOTE**

Staking of mud flaps is performed with general purpose tent pins, usually in extreme environmental conditions. Eight hooked 18 inch tent pins are provided in the vestibule kit, which are used to secure the vestibule guy lines and shelter support ropes.

If necessary, stake tent exterior mud flaps that surround the edge of the TEMPER, Air-Supported using mud flap grommets (Figure 83, Item 1) and general purpose tent pins.

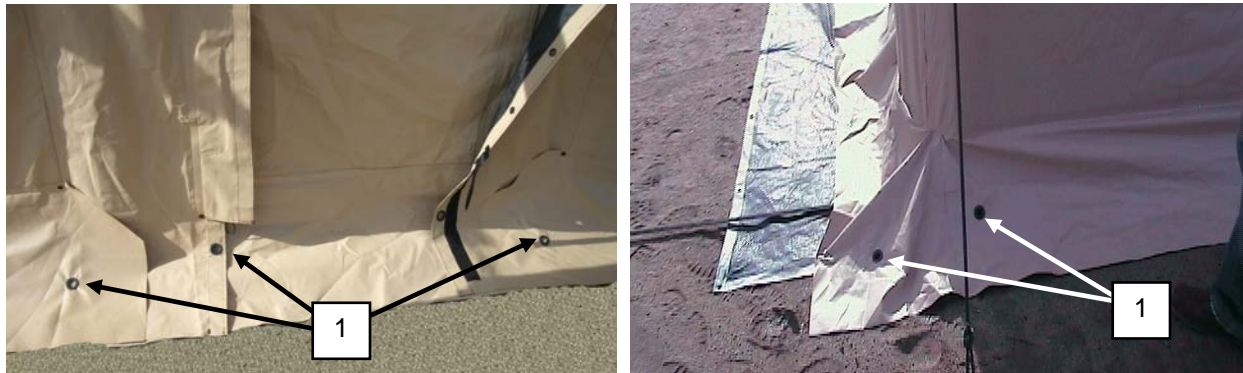


Figure 83. Mud Flap Grommets.

END OF TASK

SECURE END PANEL DOOR**NOTE**

Securing of end panel door (if necessary) is accomplished using the fastening straps and clips attached to the end panel.

1. On both sides of the door panel, close the side zippers (Figure 84, Item 1) on the door panel, and press the hook and loop flap (Figure 84, Item 2) to cover and protect the zipper closures.



Figure 84. Secure Door Panel.

2. At the bottom of the door flap, lay out the bottom mud flap (Figure 85, Item 1) under the side flaps (Figure 85, Item 2) to enable the side flaps to be secured on top of the bottom mud flap.

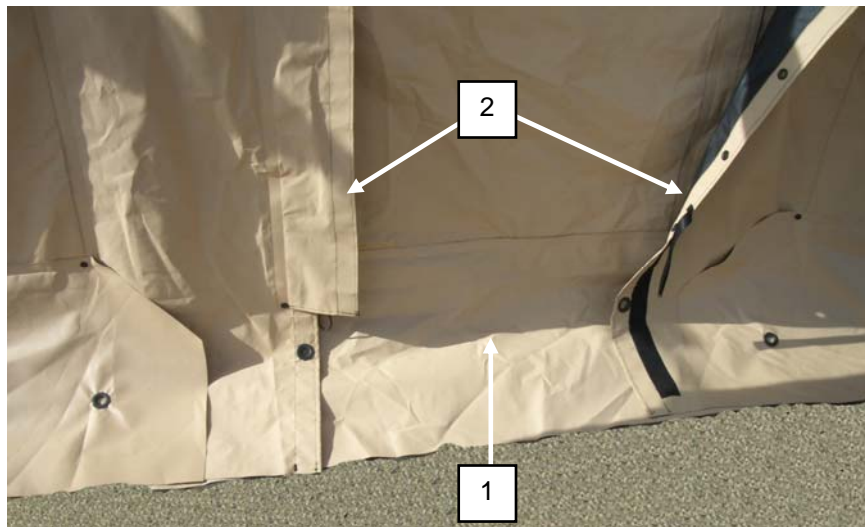


Figure 85. Prepare Door Panel Mud Flap.

SECURE END PANEL DOOR - CONTINUED

3. Under the overhanging panel (Figure 86, Item 1) above the door, pass the right side plastic clip connector strap (Figure 86, Item 2) through the loop (Figure 86, Item 3) attached to the middle of the overhanging top panel.
4. Clip the right side plastic connector into the left side plastic connector (Figure 86, Item 4).
5. Pull the end (Figure 86, Item 5) of the right side connector strap to remove any excess slack.

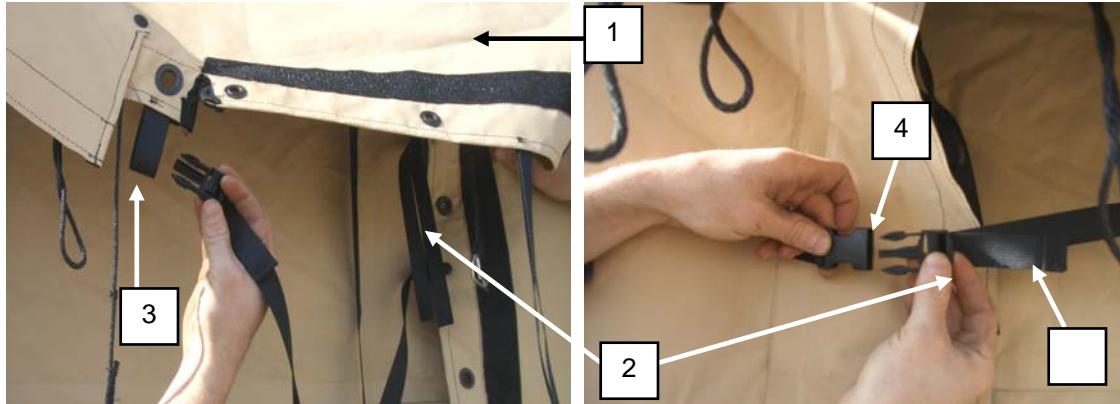


Figure 86. Secure Door Panel Straps.

6. Repeat steps 3 through 5 for the middle door securing strap. (Figure 87, Item 1).

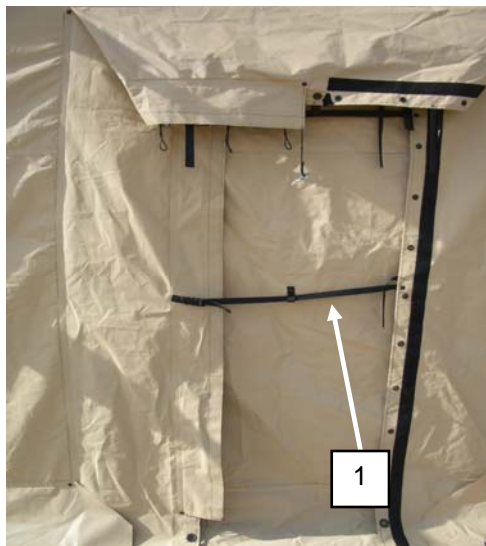


Figure 87. Door Panel Secured.

END OF TASK

CONFIGURE WINDOW PANELS**NOTE**

Weather permitting; opening window panels improves ambient interior lighting for follow on tasks such as Power Distribution or Lighting Installation WP 0006.

Window panels supplied with the TEMPER, Air-Supported are designed with solid fabric window covers, removable clear plastic window panels and permanent screens. To configure the window panels:

1. Roll up the window cover (Figure 88, Item 1), and tie in place using the ties above the window panel (Figure 88, Item 2).
2. Press the perimeter of the plastic window panel down firmly (Figure 88, Item 3), to ensure that the hook and loop fastening strip is securely connected to the tent outer skin.

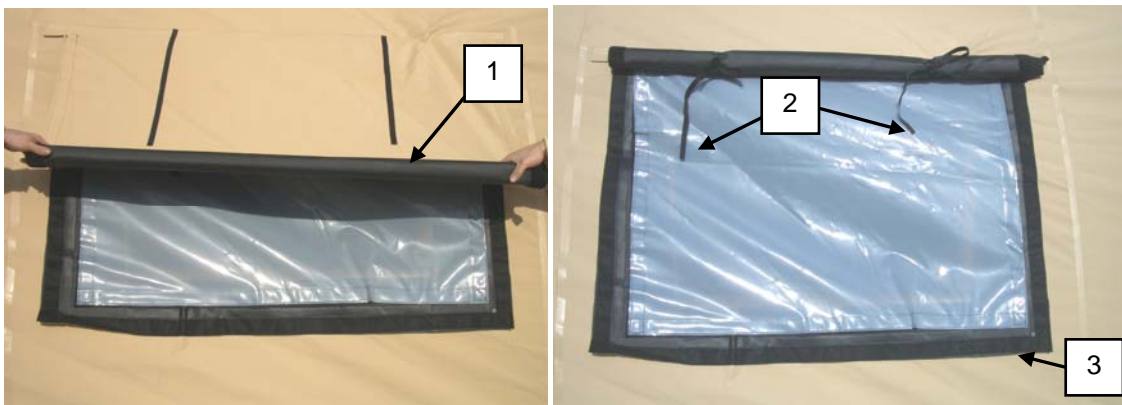


Figure 88. Roll Up Window Cover.

3. Open the window panel for screen access, by rolling up the plastic window panel (Figure 89, Item 1). Tie in place with the ties above the panel (Figure 89, Item 2).



Figure 89. Roll Up Clear Window Panels.

4. Store unused window panels in a container or other location that will prevent damage.

END OF TASK

POWER DISTRIBUTION OR LIGHTING INSTALLATION

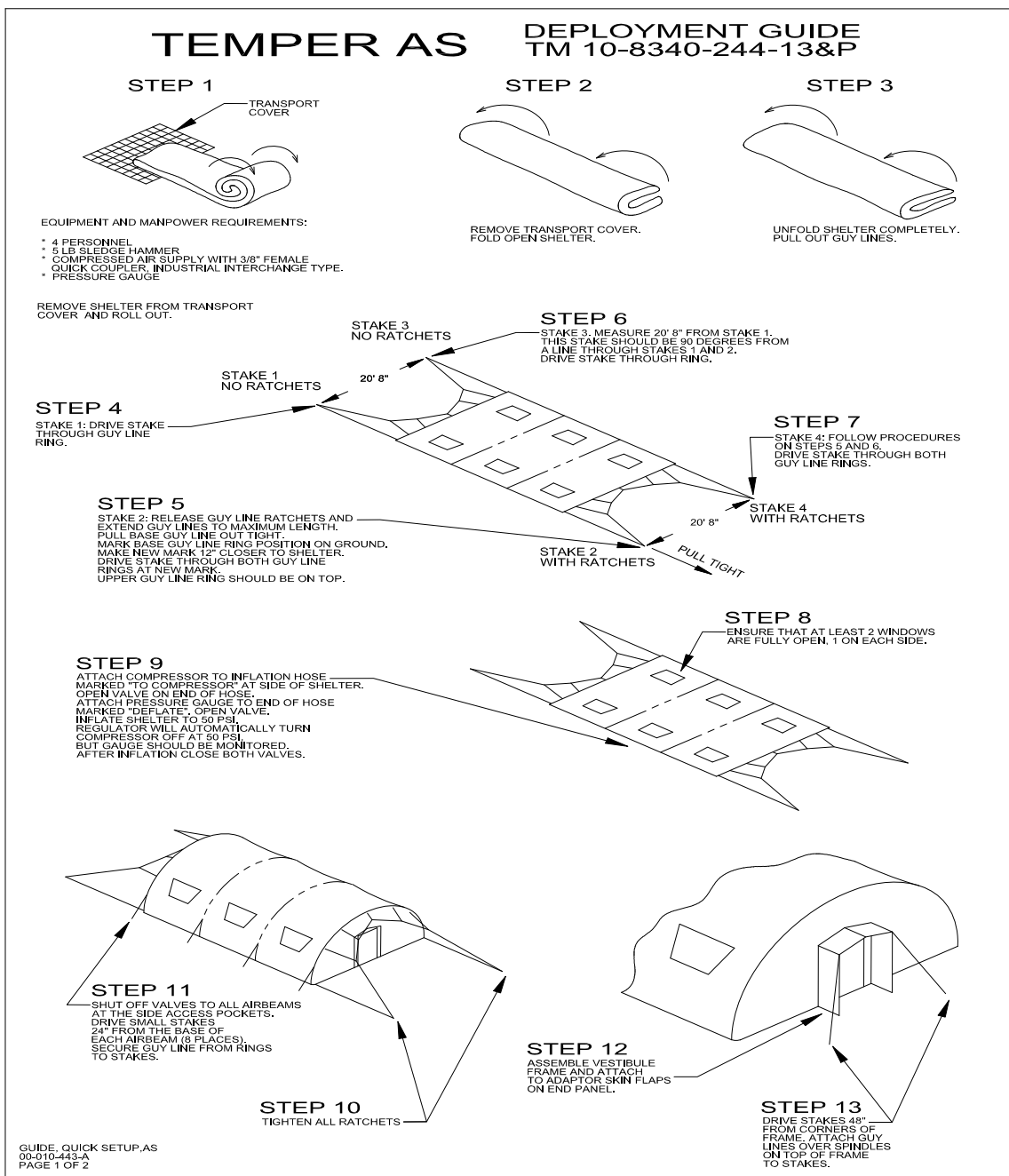
If power distribution and/or lighting are to be installed, refer to WP 0006.

END OF TASK

DECALS, DATA BLOCKS, AND INSTRUCTION PLATES

Table 1. Decals, Data Blocks, and Instruction Plates.

Printed cloth shelter deployment guide affixed to the inside of the transport cover; Not Actual Size.



END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE

**OPERATION UNDER USUAL CONDITIONS
POWER DISTRIBUTION AND LIGHTING KIT INSTALLATION**

INITIAL SETUP:

References

WP 0009, WP 0026

Personnel Required

Power Generation Equipment Repairer 52D (1)
Non-MOS Specific (2)

Equipment Condition

Shelter inflated and tensioned.

INSTALL POWER DISTRIBUTION KIT

NOTE

The power distribution kit includes a power distribution box (Figure 1, Item 1), mounting stand (Figure 1, Item 2), two outlet assemblies with three outlet boxes (Figure 1, Item 3), and extension cabling for outlet assemblies and lighting assemblies (Figure 1, Item 4).

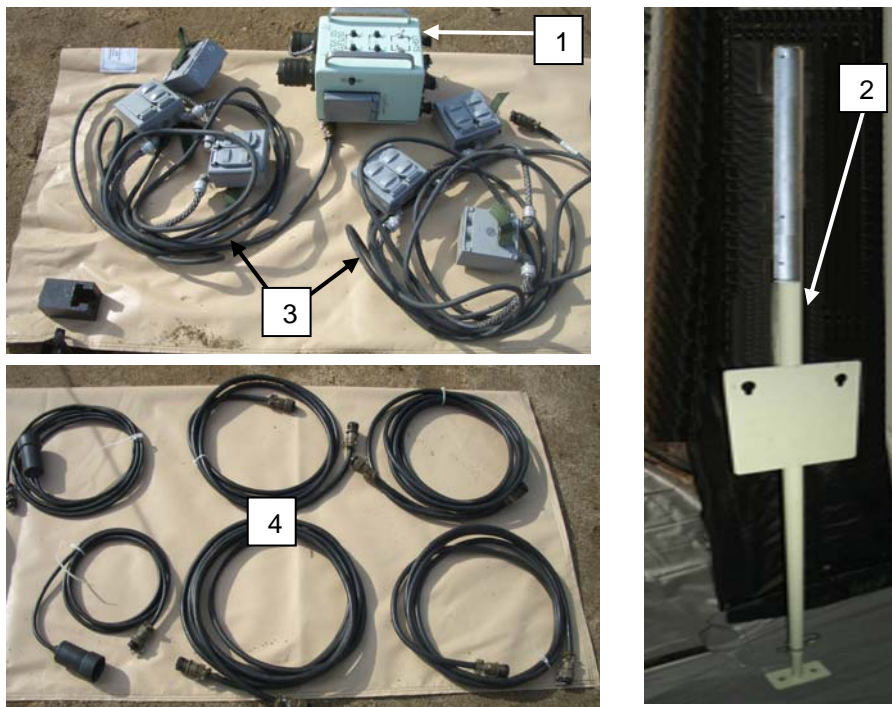


Figure 1. Power Distribution Kit.

INSTALL POWER DISTRIBUTION KIT - CONTINUED**WARNING**

Exercise extreme care when installing power distribution kit. Voltages dangerous to life may be present. Failure to do so may cause death or serious injury by electrocution.

CAUTION

Power distribution box stand sections may have burrs or sharp edges. Control the movement of the stand sections when removing the securing pins. Failure to do so may result in injury to personnel or damage to equipment.

1. Remove the upper and lower securing pins (Figure 2, Item 1) from the middle section (Figure 2, Item 2) of the power distribution box stand (Figure 2, Item 3).
2. Collapse the upper section (Figure 2, Item 3) and lower section (Figure 2, Item 5) of the power distribution box stand into the middle section (Figure 2, Item 2) for ease of movement.

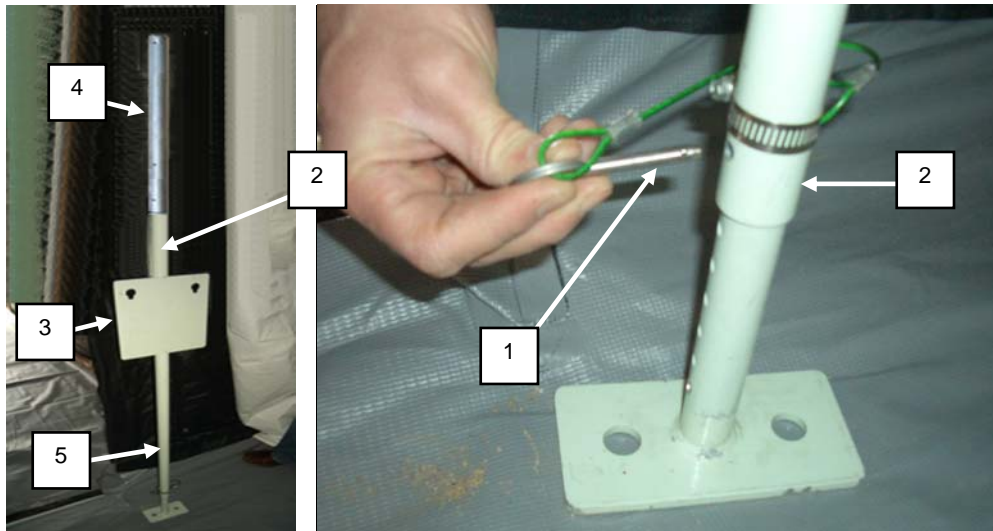


Figure 2. Power Distribution Box Stand Securing Pins.

INSTALL POWER DISTRIBUTION KIT - CONTINUED

3. Position the power distribution box stand inside the ECU end of the tent (Figure 3, Item 1), between the outer skin and liner, directly beneath the airbeam mounting block (Figure 3, Item 2), with the mounting plate (Figure 3, Item 3) facing the tent interior.

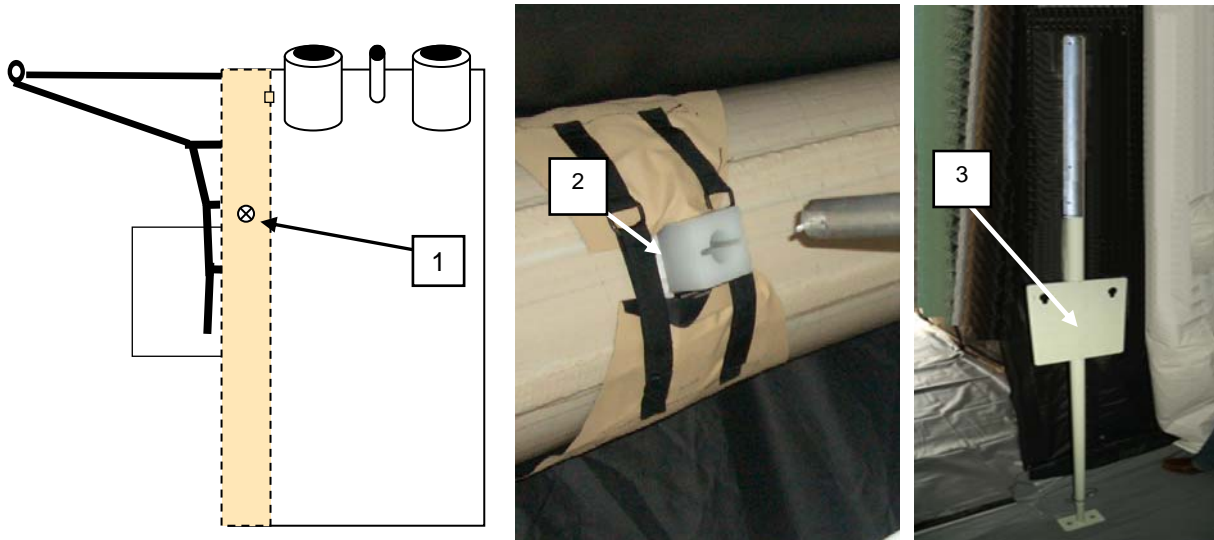


Figure 3. Position Power Distribution Box Stand.

NOTE

The stand height is adjusted using the securing pin / alignment hole combinations in the upper and lower sections to fit snugly between the airbeam and tent floor, and the mounting plate on the stand should match the access opening in the liner.

The second set of alignment holes in the upper stand section of usually provides effective stand height. In unusual terrain situations, different alignment holes may be required.

4. Extend the upper stand section (Figure 4, Item 1) to align the upper securing pin with the second set of alignment holes (Figure 4, Item 2). Insert the securing pin (Figure 4, Item 3) through the top holes (Figure 4, Item 4) in the middle section of the power distribution box stand.

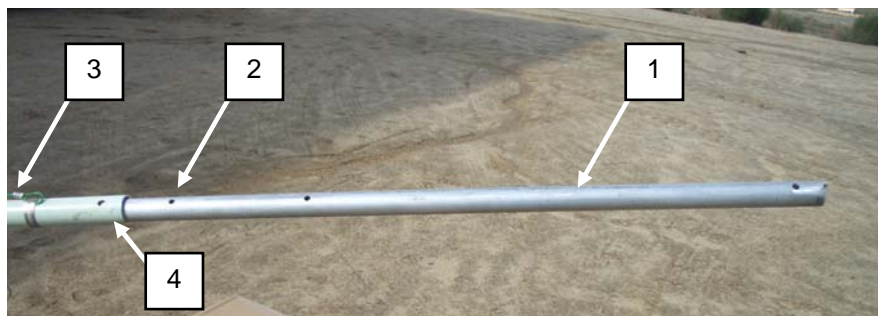


Figure 4. Upper Power Distribution Box Stand Section.

INSTALL POWER DISTRIBUTION KIT - CONTINUED

5. At the middle section of the stand (Figure 5, Item 1), remove the attached lower securing pin (Figure 5, Item 2). The middle section (Figure 5, Item 1) is free to slide over the footer section (Figure 5, Item 3) of the stand.

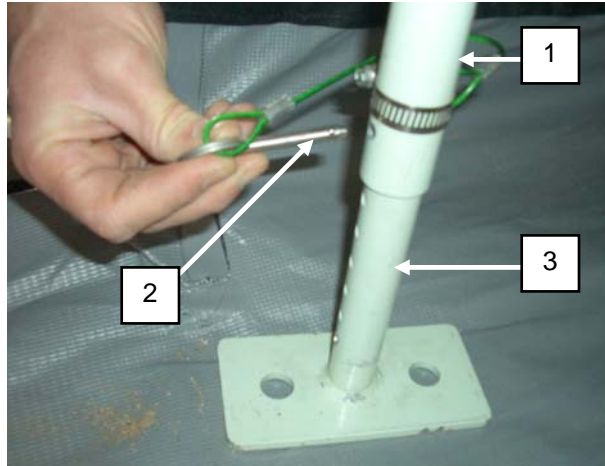


Figure 5. Power Distribution Box Stand.

CAUTION

The top of the stand may have burrs or sharp edges. Ensure that the top of the stand remains in the airbeam mounting block during stand height adjustment. Failure to do so could allow damage the airbeam or the tent material.

6. At the airbeam mounting block (Figure 6, Item 2), fit the top of stand (Figure 6, Item 1) into the slotted hole in the airbeam mounting block (Figure 6, Item 2) attached to the airbeam.

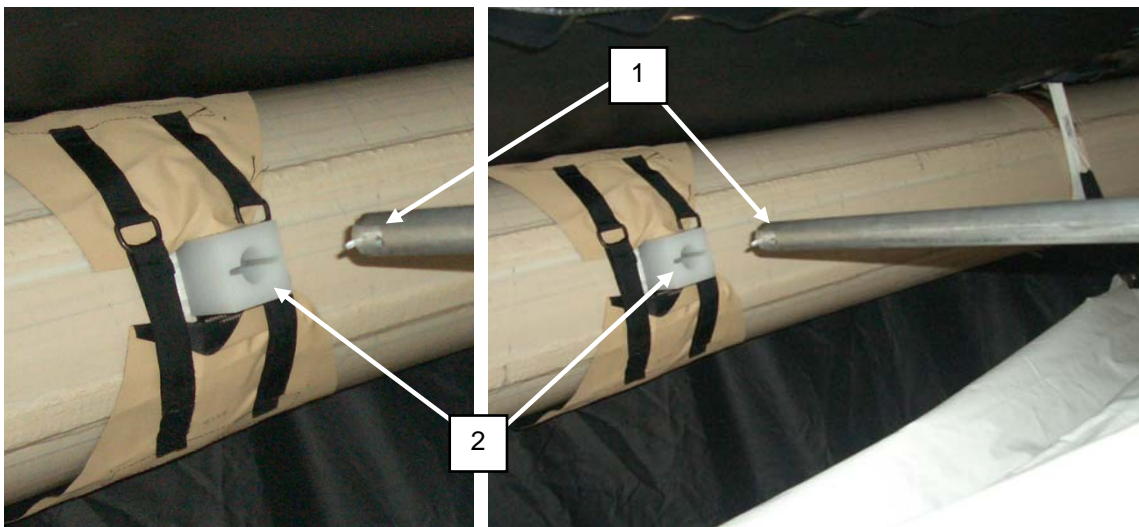


Figure 6. Power Distribution Mounting Block.

INSTALL POWER DISTRIBUTION KIT - CONTINUED

7. At the bottom of the stand, extend the footer section (Figure 7, Item 1) until the stand fits snugly between the airbeam mounting block and the tent floor. Insert the securing pin (Figure 7, Item 2) through the middle section holes (Figure 7, Item 3) and closest set of holes in the footer section (Figure 7, Item 4) that provide a snug fit between the airbeam mounting block and the tent floor.

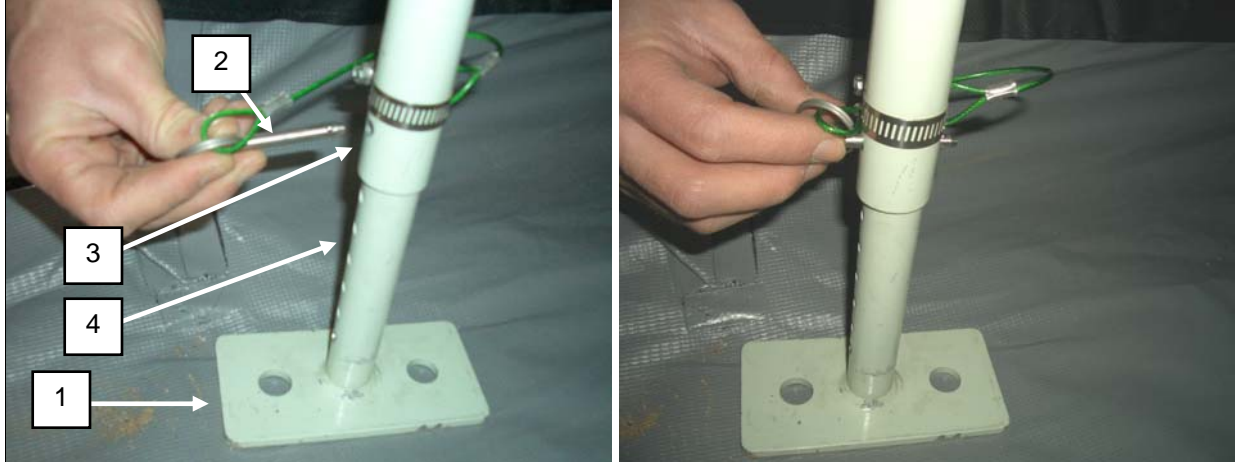


Figure 7. Power Distribution Box Stand Height Adjustment.

WARNING

Ensure that the power distribution stand is mounted securely prior to attaching the power distribution box, power cables or applying power. Failure to do so may cause death or serious injury due to electrocution or damage to equipment.

8. Verify that the power distribution box stand is securely mounted in the airbeam mounting block. Ensure that the stand cannot be easily dislodged by shaking, bumping or significant impact to the stand.

INSTALL POWER DISTRIBUTION KIT - CONTINUED

9. Attach the power distribution box to the stand by fitting the pins (Figure 8, Item 1) on the back of the power distribution box into the slotted holes (Figure 8, Item 2) on the stand plate. Press down firmly on the power distribution box to ensure that the pins mount securely.

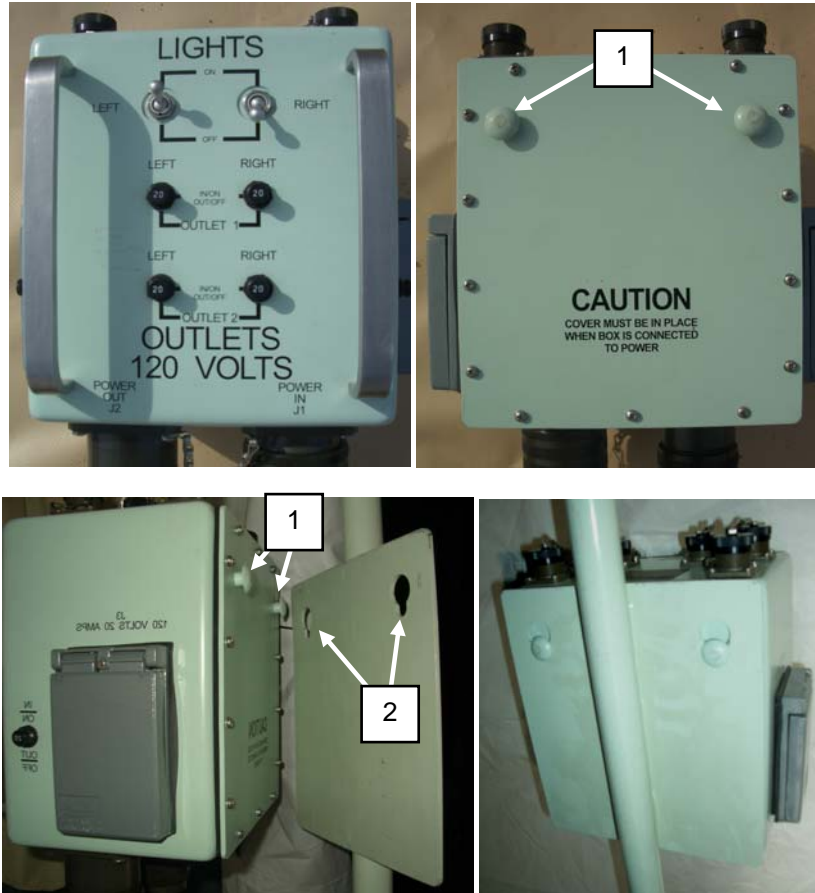


Figure 8. Power Distribution Box Mounting.

INSTALL POWER DISTRIBUTION KIT - CONTINUED

10. On the front of the Power Distribution Box, ensure that the left and right LIGHTS toggle switches (Figure 9, Item 1) are in the OFF (down) position.

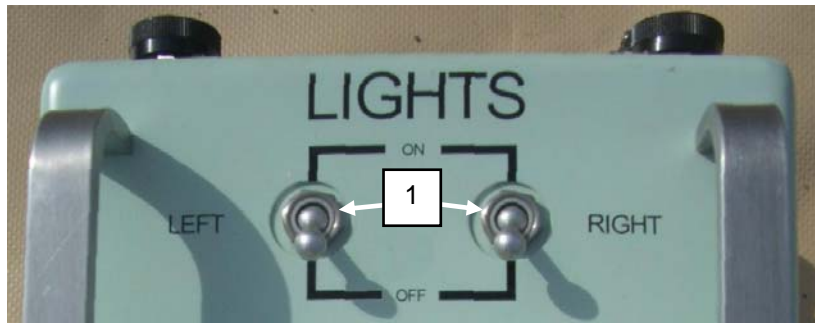


Figure 9. Left and Right Lighting Toggle Switches.

11. On the front of the power distribution box, ensure that all four left and right OUTLETS 20 A pushbutton circuit breakers (Figure 10, Item 1) are set to the IN (ON) position. If the pushbutton circuit breakers are OUT (OFF), push them in.

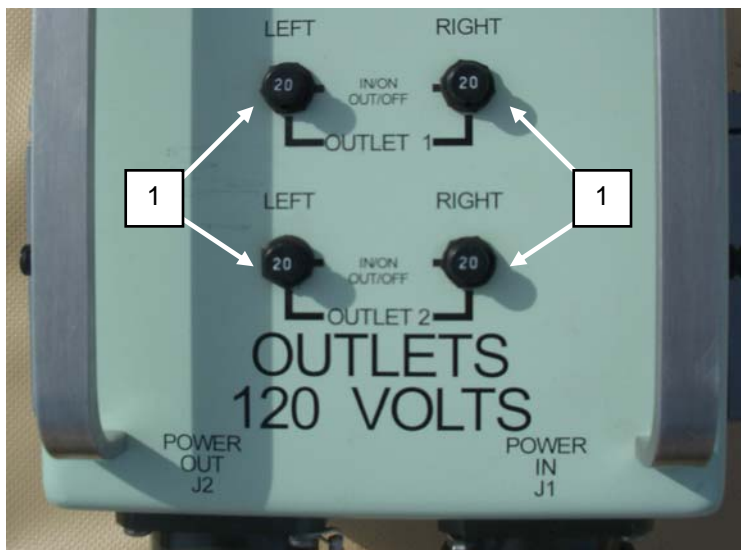


Figure 10. Outlet Circuit Breakers.

INSTALL POWER DISTRIBUTION KIT - CONTINUED

12. On the right side of the power distribution box, ensure that the J1 primary POWER IN 20 A pushbutton circuit breaker (Figure 11, Item 1) is set to the IN (ON) position.

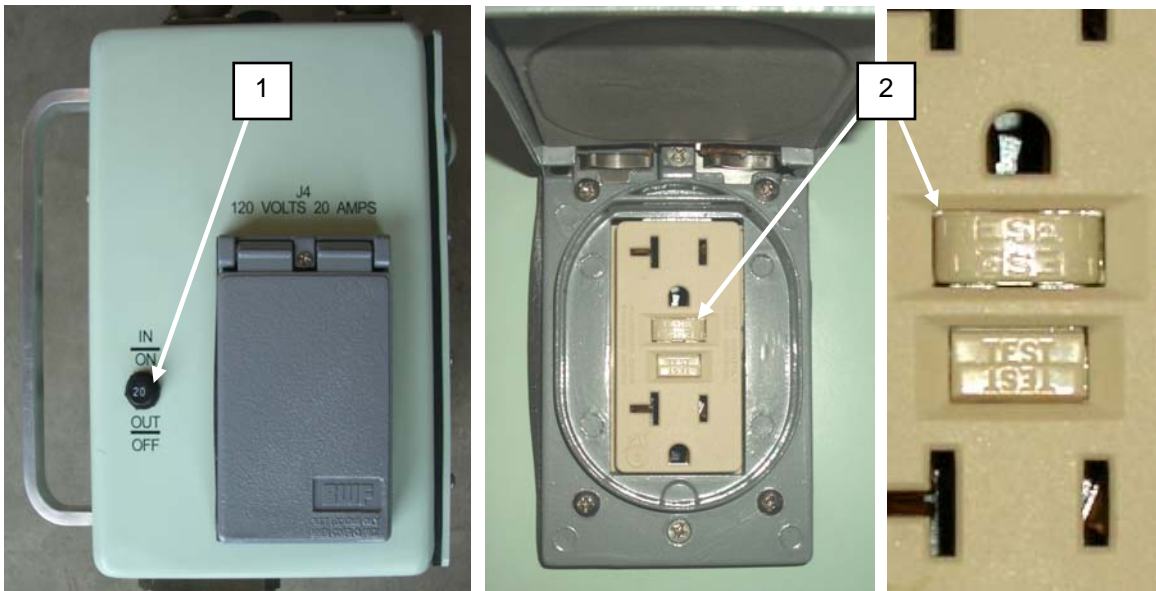


Figure 11. Primary Power Circuit Breaker.

13. On the right side of the power distribution box, ensure that J4 outlet 120 VOLTS 20 AMPS ground fault interrupter circuit breaker RESET button (Figure 12, Item 2) is in the IN position.
14. On the left side of the power distribution box, ensure that the J2 POWER OUT 20 A pushbutton circuit breaker (Figure 12, Item 1) is set to the IN position.
15. On the left side of the power distribution box, ensure that the J3 outlet 120 VOLTS 20 A ground fault interrupter circuit breaker (Figure 12, Item 2) RESET button is in the IN position.

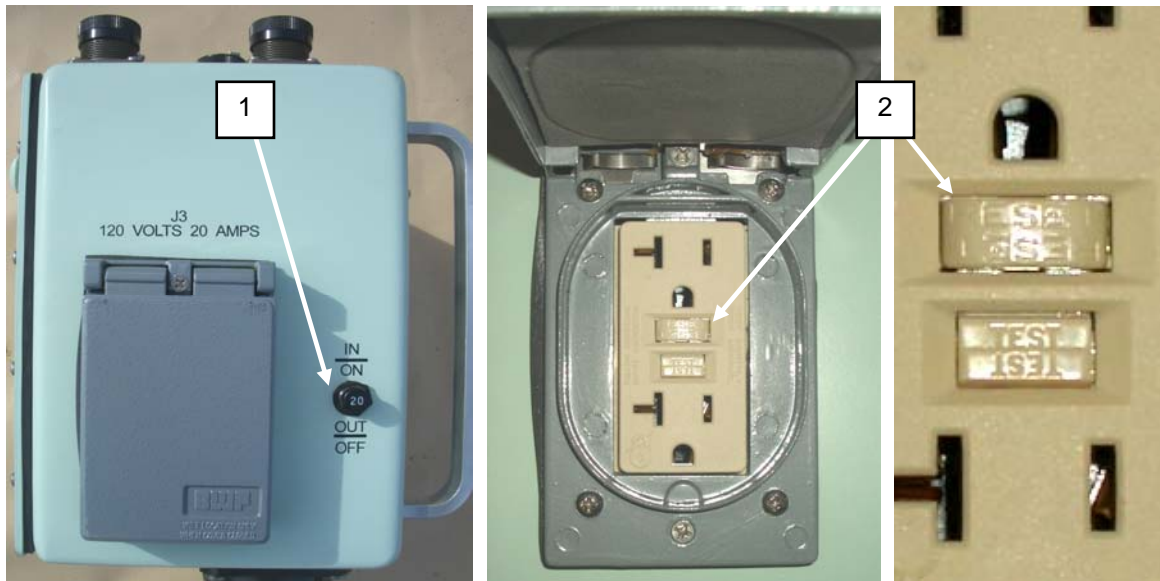


Figure 12. Power Out Circuit Breaker.

INSTALL POWER DISTRIBUTION KIT - CONTINUED

NOTE

Three airbeam tents have a single power distribution convenience outlet string. Four airbeam tents have two convenience outlet cables.

16. Position convenience outlet cables (Figure 13, Item 1) along each side of the tent, with the plug end of the convenience outlet cable towards the power distribution box (Figure 13, Item 2). Place outlet boxes (Figure 13, Item 3) next to airbeams (Figure 13, Item 4).

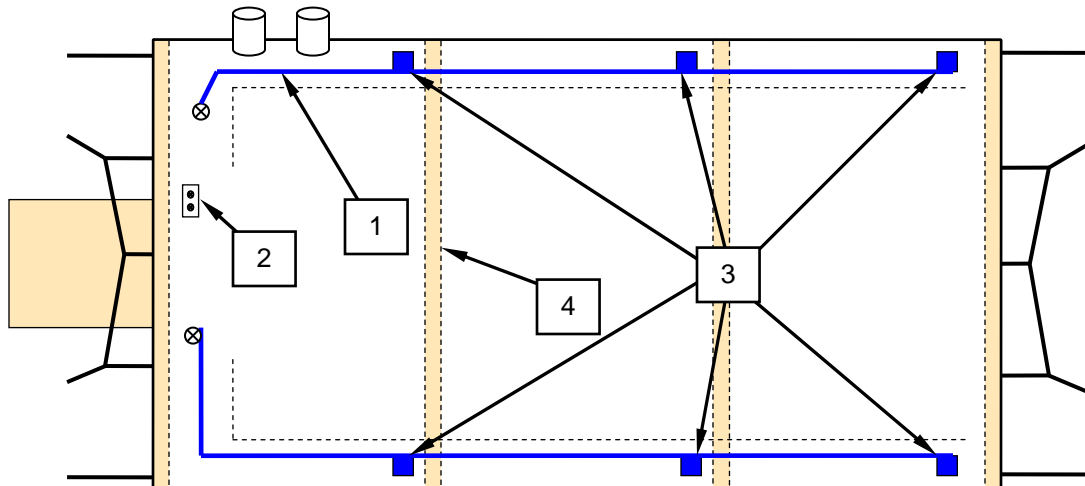


Figure 13. Convenience Outlet Cables.

INSTALL POWER DISTRIBUTION KIT - CONTINUED

NOTE

Power distribution extension cables are of different lengths. One cable is longer in order to be routed over the doorway.

- Position both power distribution extension cables (Figure 14, Item 1) at the power distribution box end of the tent, with the longer cable positioned to be routed over the doorway. Place the plug ends (Figure 14, Item 2) of both cables next to the power distribution box (Figure 14, Item 3).

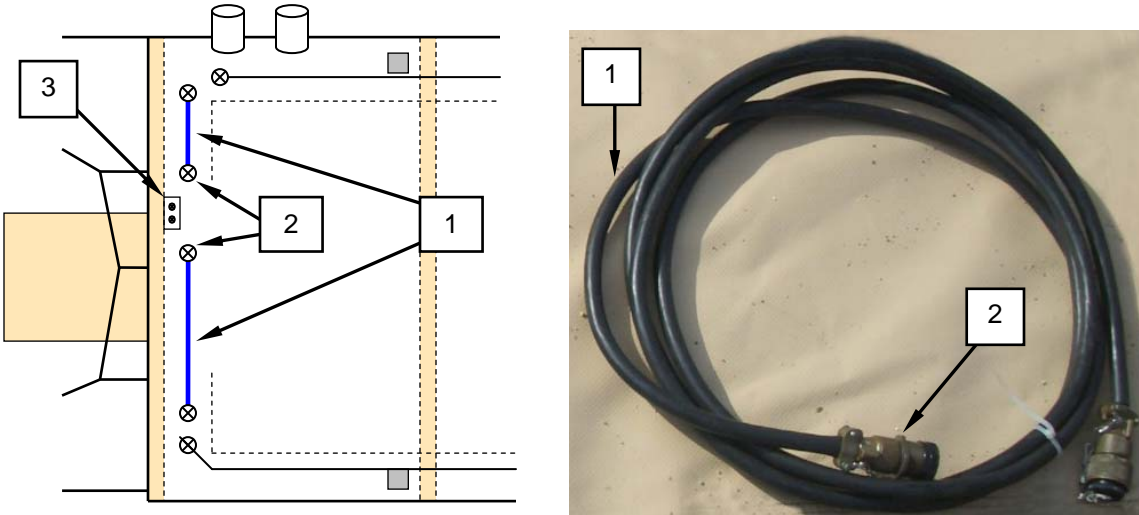


Figure 14. Layout Power Distribution Extension Cables.

- At either convenience outlet cable, connect the cable plug (Figure 15, Item 1) into the power distribution extension cable receptacle jack (Figure 15, Item 2). Repeat for the convenience outlet cable and extension cable on the opposite side of the tent.

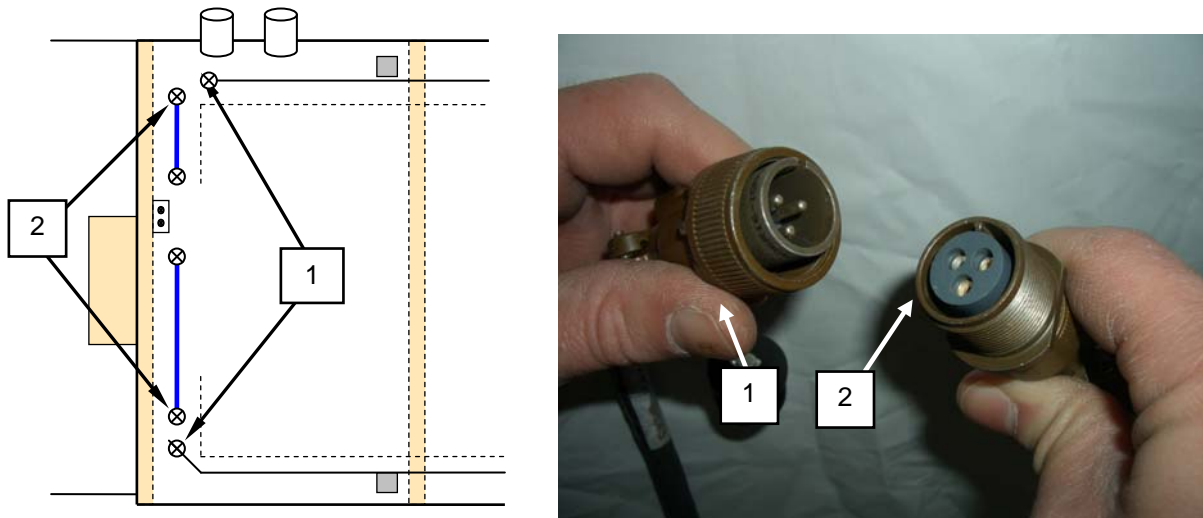


Figure 15. Connect Convenience Outlet Cables.

INSTALL POWER DISTRIBUTION KIT - CONTINUED

- On the top of the power distribution box, unscrew and remove the threaded cover (Figure 16, Item 1) from J8 RIGHT OUTLET 1 receptacle jack.

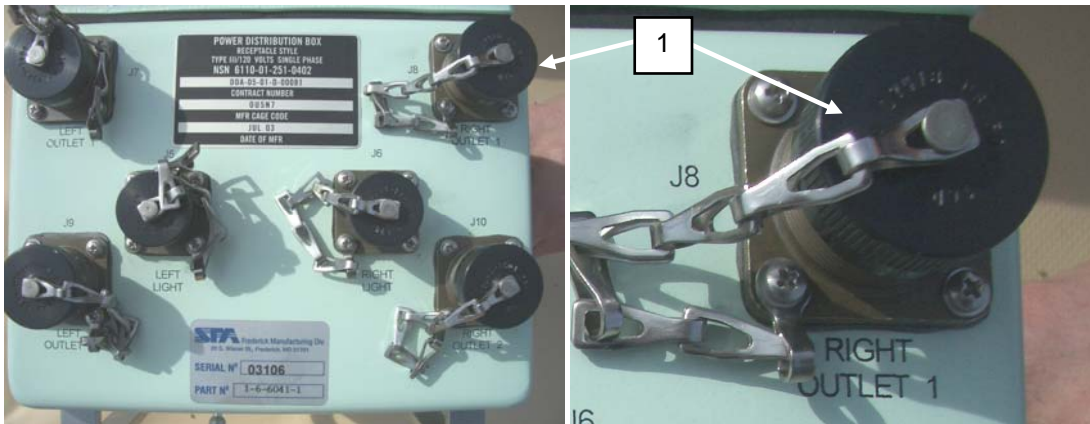


Figure 16. Remove J8 RIGHT OUTLET 1 Jack Cover.

- Align the slot (Figure 17, Item 1) on the power distribution extension cable plug P8 RIGHT OUTLET 1 (Figure 17, Item 2) to the key (Figure 17, Item 3) on J8 RIGHT OUTLET 1 (Figure 17, Item 4) receptacle jack.

WARNING



Fully seat the power distribution extension cable plug into the jack for reliable electrical connection of the plug pins in the jack. Failure to do so could result in serious injury or death from electrocution or damage to equipment.

- With the key aligned in the slot, press plug down firmly on the power distribution extension plug (Figure 17, Item 2) to fully seat the connector plug onto the J8 receptacle jack (Figure 17, Item 4).
- Thread and tighten the P8 (Figure 17, Item 2) connector shell to secure the power connection.

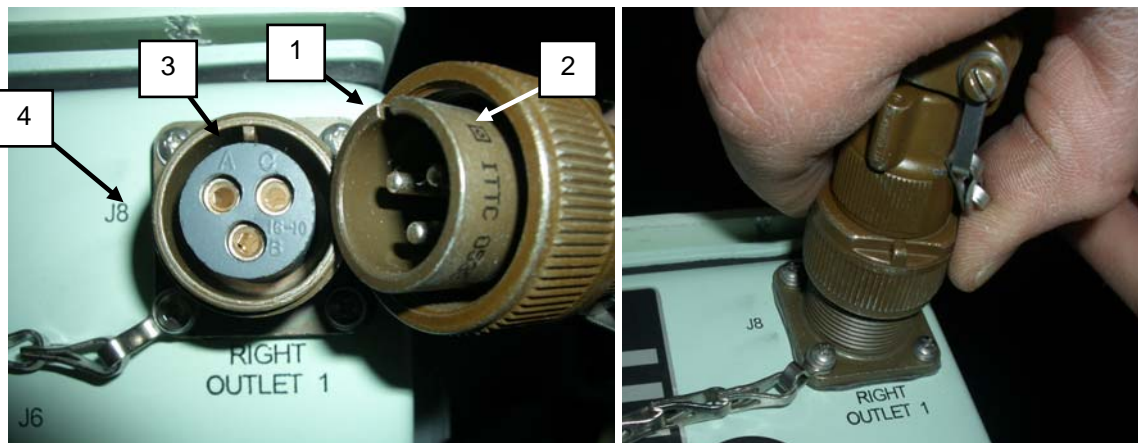


Figure 17. Connect P8 RIGHT OUTLET 1 to J8 RIGHT OUTLET 1.

INSTALL POWER DISTRIBUTION KIT - CONTINUED

23. On the top of the power distribution box, unscrew and remove the threaded cover (Figure 18, Item 1) from J7 LEFT OUTLET 1 receptacle jack.

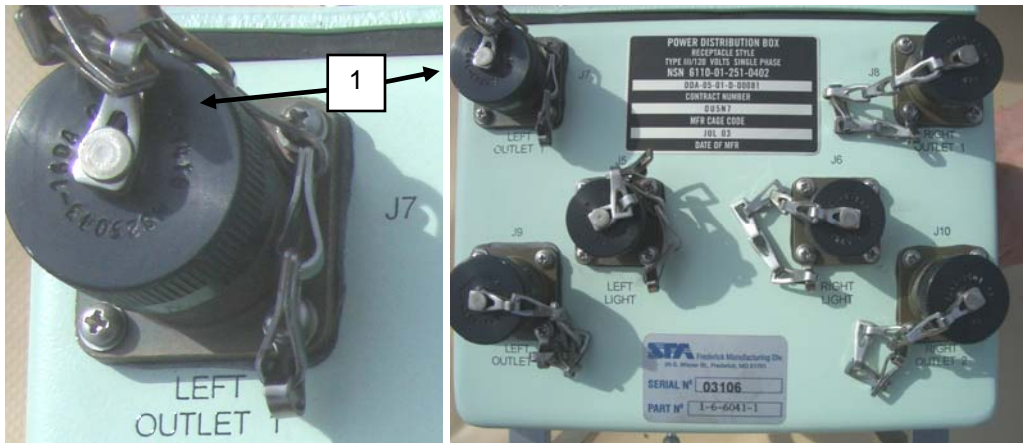


Figure 18. Remove J7 LEFT OUTLET 1 Receptacle Jack Cover.

24. Align the slot (Figure 19, Item 1) on the power distribution extension cable plug P7 LEFT OUTLET 1 (Figure 19, Item 2) to the key (Figure 19, Item 3) on J7 LEFT OUTLET 1 receptacle jack (Figure 19, Item 4).

WARNING



Fully seat and tighten the plug into the jack for reliable electrical connection. Failure to do so could result in an electrically unsafe condition that could cause serious injury or death from electrocution or damage to equipment.

25. Press firmly on the power distribution extension plug connector shell (Figure 19, Item 2) to fully seat the power plug onto the J7 jack (Figure 19, Item 4).
26. Thread and tighten the P7 connector shell (Figure 19, Item 2) to secure the power connection.

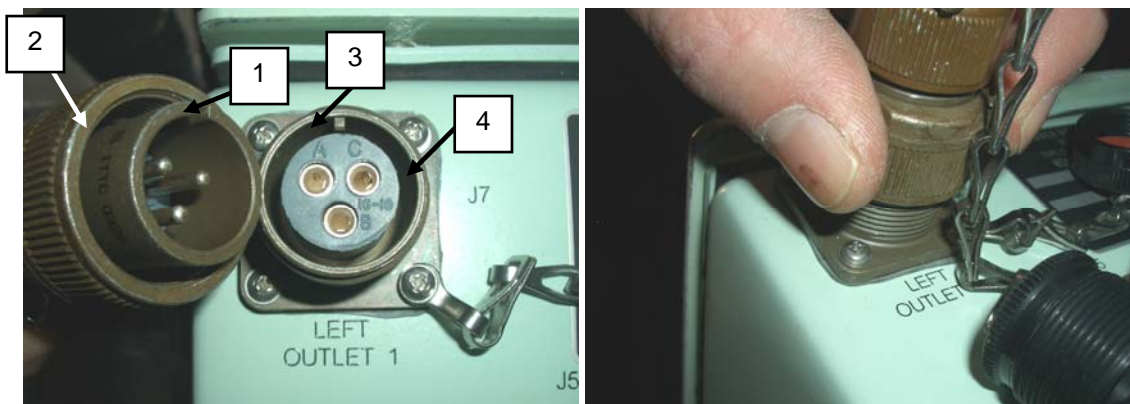


Figure 19. Connect P7 LEFT OUTLET 1 Power Distribution Cable to J7 LEFT OUTLET 1.

INSTALL POWER DISTRIBUTION KIT - CONTINUED

27. At the tent doorway entering the vestibule, lift the left power distribution extension cable (Figure 20, Item 1) over the doorway and attach the power distribution extension cable to the inside of the tent outer skin using the attached tie (Figure 20, Item 2) above the doorway.

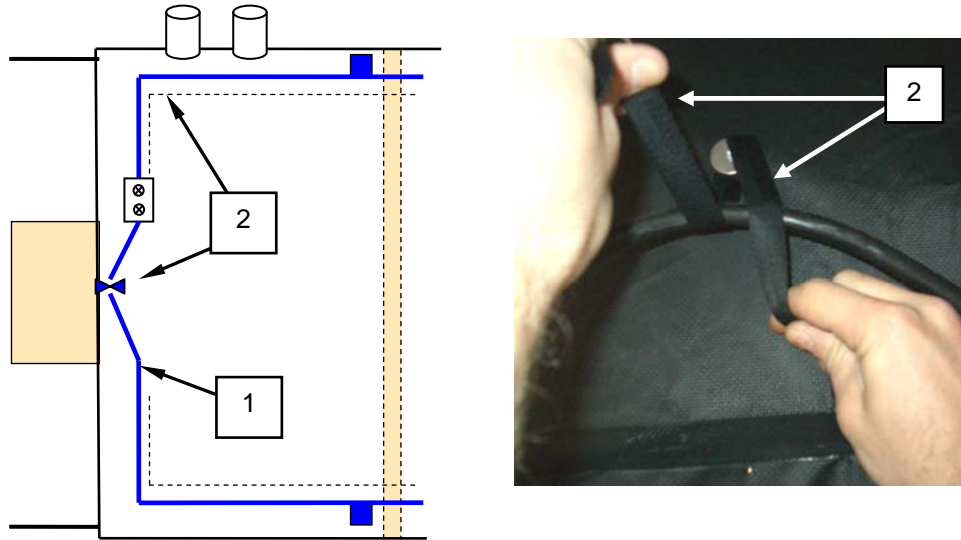


Figure 20. Attach Left Power Distribution Cable Over Doorway.

NOTE

Adjust convenience outlet box and tie positions as needed, to secure power cables, air hoses and liner, for safety.

28. Along the sides of the tent, attach the left and right power distribution cables to the ties (Figure 21, Item 1) attached along the lower side walls of the outer skin.

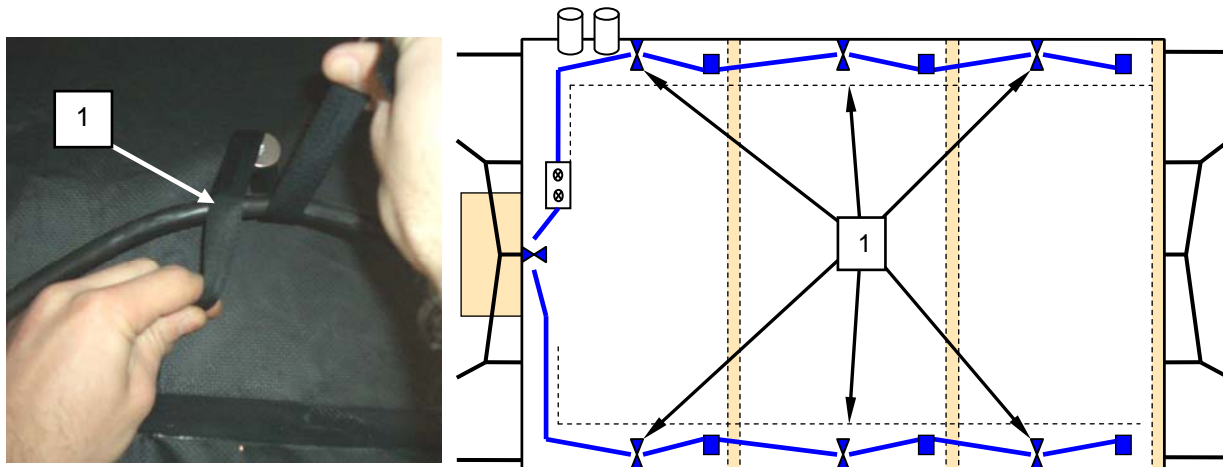


Figure 21. Secure Power Distribution Cables With Attached Ties.

29. If the Lighting Kit IS BEING INSTALLED, proceed to the next Task 'INSTALL LIGHTING KIT'. If the lighting kit is NOT BEING INSTALLED, proceed to task 'CONNECT PRIMARY POWER'.

END OF TASK

INSTALL LIGHTING KIT

NOTE

Each tent light unit has four compact fluorescent lights. Three airbeam tents have one light unit. Four airbeam tents have two light units. The installation procedure for the lighting kit is the same for both (Figure 22).

A step aid may be required to install the lighting kit.



Figure 22. Lighting Kit Installed.

NOTE

The lights (Figure 23, Item 1) are attached to lighting straps (Figure 23, Item 2) with hook and loop fastening straps. The lighting strap is attached to the liner ceiling with loops attached to the liner at the 10-o'clock and two-o'clock positions along the tent length.

A power cord (Figure 23, Item 4) connects the lighting unit string to the power distribution box (Figure 23, Item 5), which has separate left and right light switches.

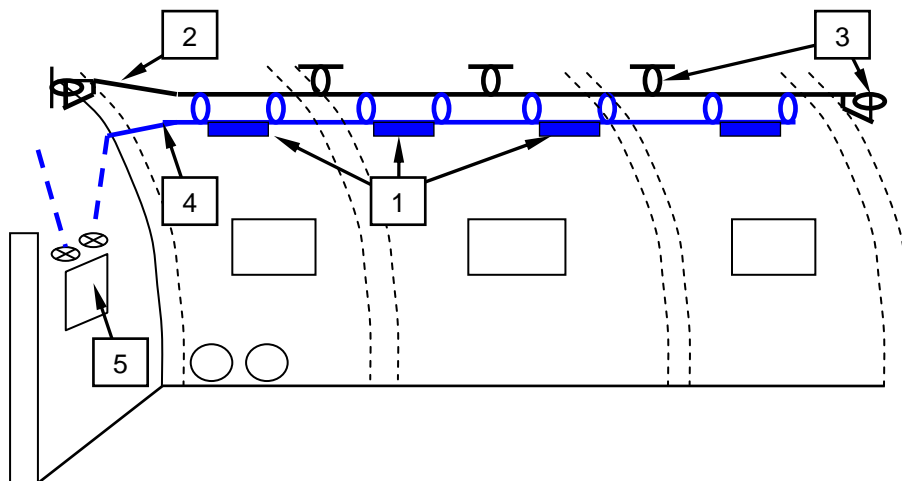


Figure 23. Lighting Unit Installation.

INSTALL LIGHTING KIT - CONTINUED**NOTE**

The lighting strap is pre-installed in the TEMPER, Air-Supported shelter when delivered from the factory. If the lighting straps are not installed, refer to WP 0026 paragraph 'Install Lighting Strap Assembly', then continue with these procedural steps.

Each fluorescent light fixture is attached to the lighting strap with hook and loop connecting straps attached to the lighting strap.

Each lighting fixture has a male and a female power cord, which connect together in a string. Power cords attach to the lighting strap with hook and loop straps.

For best results, use two personnel to attach the lighting fixtures.

1. Remove a fluorescent lighting fixture (Figure 24, Item 1) from the storage case:



Figure 24. Remove Lighting Fixture from Storage Case.

INSTALL LIGHTING KIT - CONTINUED

NOTE

Install the lighting fixtures so that the male power cords are towards the end of the tent where the power distribution box is located.

When wrapping the connecting strap around the lighting fixture, ensure that the hook and loop strips are facing outward on the lighting fixture.

2. Wrap the end (Figure 25, Item 1) of the connecting strap around the end slot in the light fixture (Figure 25, Item 2), and through the D-ring (Figure 25, Item 3) in the connecting strap.

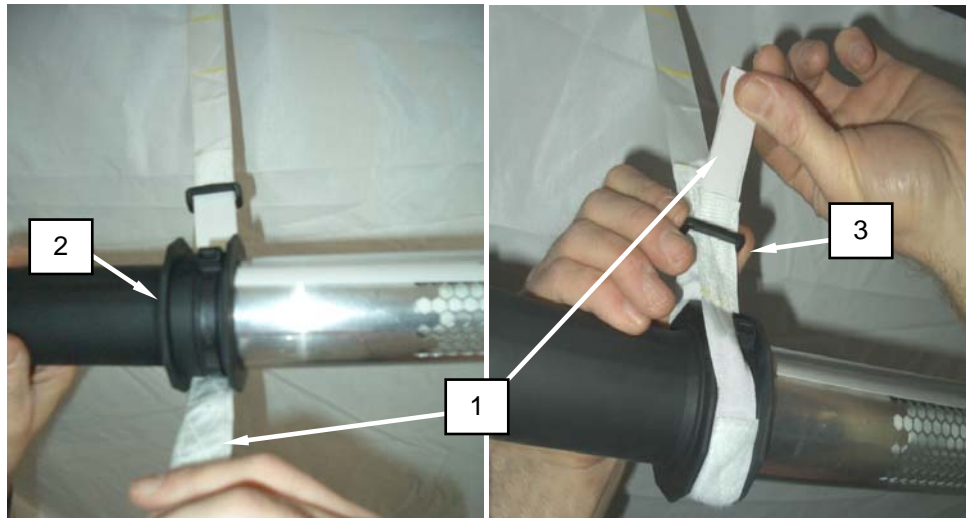


Figure 25. Wrap Connecting Strap Around Lighting Fixture.

3. Pull the connecting strap tight (Figure 26, Item 1), then fold the strap back upon itself around the light fixture (Figure 26, Item 2), pressing the hook and loop sections together to secure the strap. Ensure that the honeycomb section of the lighting fixture is pointing down.

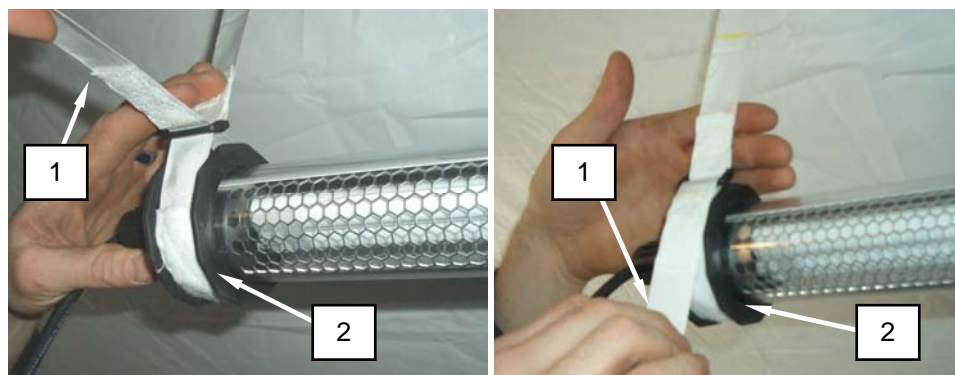


Figure 26. Fasten Connector Strap Hook and Loop Tape Sections.

4. Repeat Steps 2 and 3 for the opposite end of the light fixture.
5. Skip one connecting strip between lighting fixtures, and repeat Steps 2 through 4 for all of the remaining light fixtures.

INSTALL LIGHTING KIT - CONTINUED

6. Between each light fixture, connect each male power cord plug (Figure 27, Item 1) into the next light fixture's female power cord receptacle (Figure 27, Item 2).

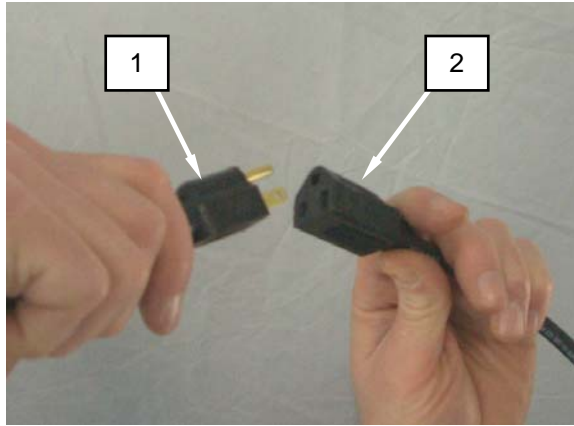


Figure 27. Connect Light Fixture Power Cords.

7. Between the light fixtures, gather and loop excess slack in the power cords (Figure 28, Item 1) and fasten the connecting strap (Figure 28, Item 2) around the looped power cord as described in Steps 2 and 3. Repeat for each set of power cords between all of the other light fixtures.

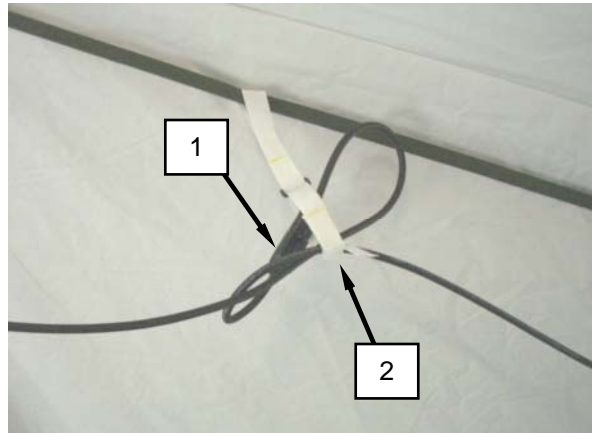


Figure 28. Secure Excess Lighting Power Cord Slack.

INSTALL LIGHTING KIT - CONTINUED

NOTE

The left side lighting extension cord is longer than the right side, to route the lighting extension cord over the doorway.

- At the power distribution box end of the tent, pass the lighting male power plug (Figure 29, Item 1) through the liner junction (Figure 29, Item 2) at the ceiling and end panel, and connect the light fixture male power plug into a lighting extension cord female receptacle jack (Figure 29, Item 3).

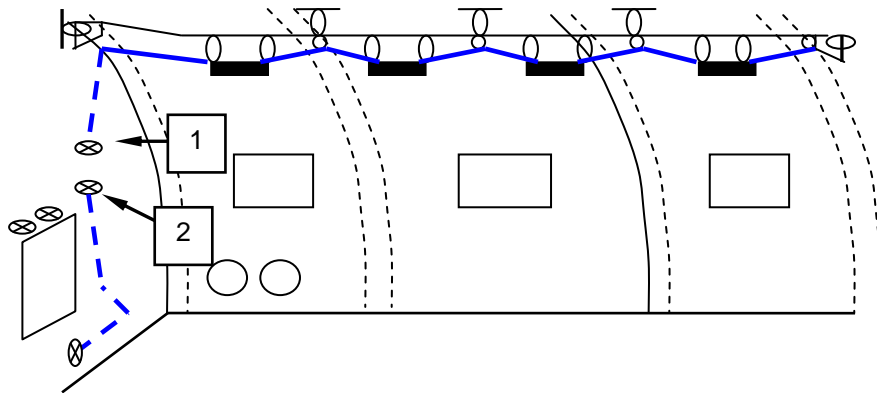
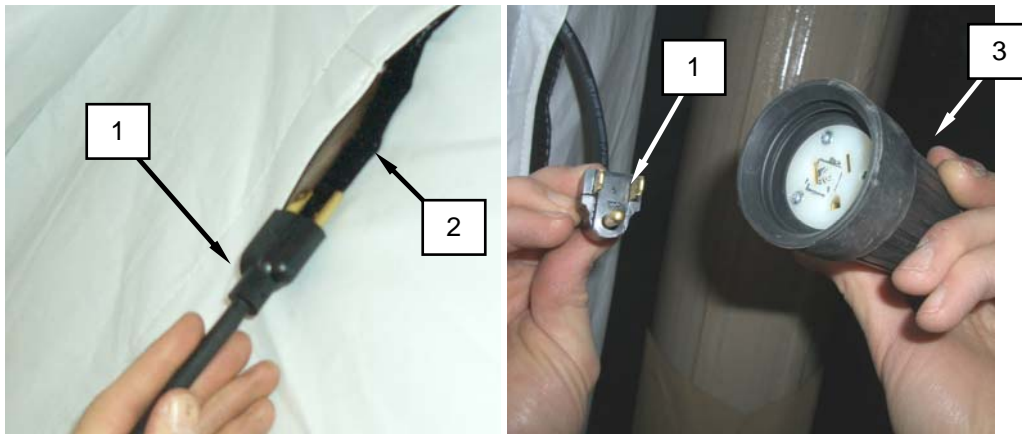


Figure 29. Connect Lighting Unit Plug to Lighting Extension Cord.

- Repeat Step 8 for the light unit on the opposite side of the tent (Figure 30).



Figure 30. Lighting Unit Installed.

INSTALL LIGHTING KIT - CONTINUED

- On the top of the power distribution box, unscrew and remove the threaded cover (Figure 31, Item 1) from J5 LEFT LIGHT receptacle jack.

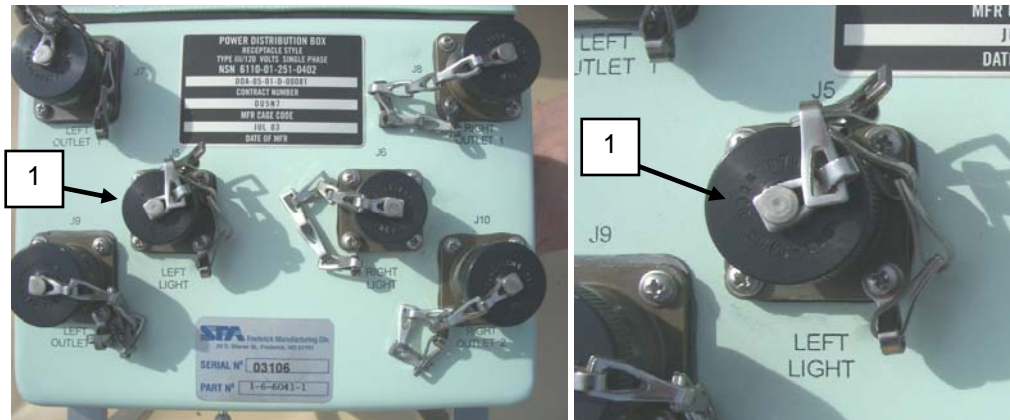


Figure 31. Remove J5 LEFT LIGHT Jack Cover.

- Align the slot (Figure 32, Item 1) on the lighting extension cable plug P5 LEFT LIGHT (Figure 32, Item 2) to the key (Figure 32, Item 3) on J5 LEFT LIGHT (Figure 32, Item 4) receptacle jack.

WARNING



Fully seat the lighting power extension cable plug into the jack for reliable electrical connection. Failure to do so could result in an electrically unsafe condition that could cause serious injury or death from electrocution or damage to equipment.

- With the key aligned in the slot, press plug down firmly on the lighting power extension plug (Figure 32, Item 2) to fully seat the connector plug onto the J5 receptacle jack (Figure 32, Item 4).
- Thread and tighten the P5 (Figure 32, Item 2) connector shell to secure the left lighting power connection.

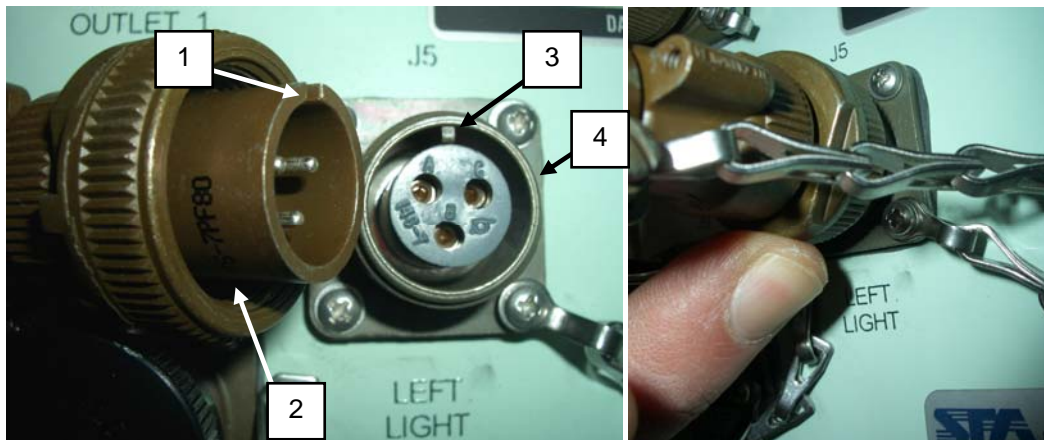


Figure 32. Connect P5 LEFT LIGHT to J5 LEFT LIGHT.

INSTALL LIGHTING KIT - CONTINUED

- On the top of the power distribution box, unscrew and remove the threaded cover (Figure 33, Item 1) from J6 RIGHT LIGHT receptacle jack.

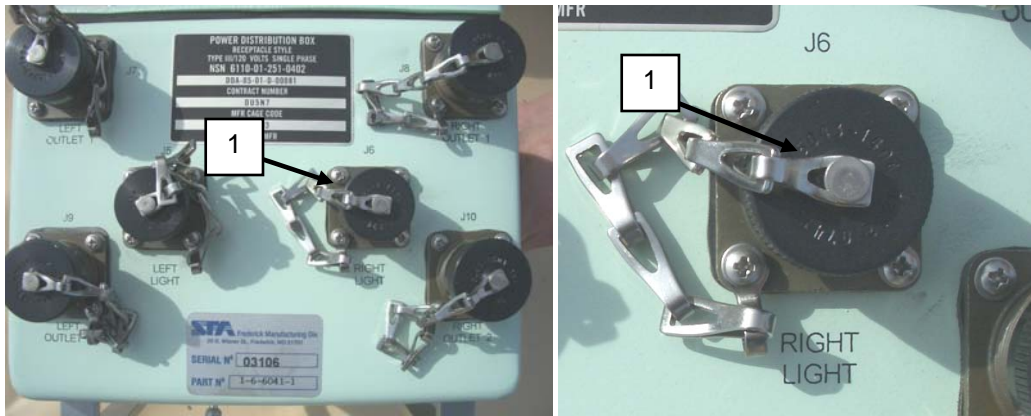


Figure 33. Remove J6 RIGHT LIGHT Jack Cover.

- Align the slot (Figure 34, Item 1) on the lighting extension cable plug P6 RIGHT LIGHT (Figure 34, Item 2) to the key (Figure 34, Item 3) on J6 RIGHT LIGHT (Figure 34, Item 4) receptacle jack.

WARNING



Fully seat the lighting power extension cable plug into the jack for reliable electrical connection. Failure to do so could result in an electrically unsafe condition that could cause serious injury or death from electrocution or damage to equipment.

- With the key aligned in the slot, press plug down firmly on the lighting power extension plug (Figure 34, Item 2) to fully seat the connector plug onto the J6 receptacle jack (Figure 34, Item 4).
- Thread and tighten the P6 (Figure 34, Item 2) connector shell to secure the lighting power connection.

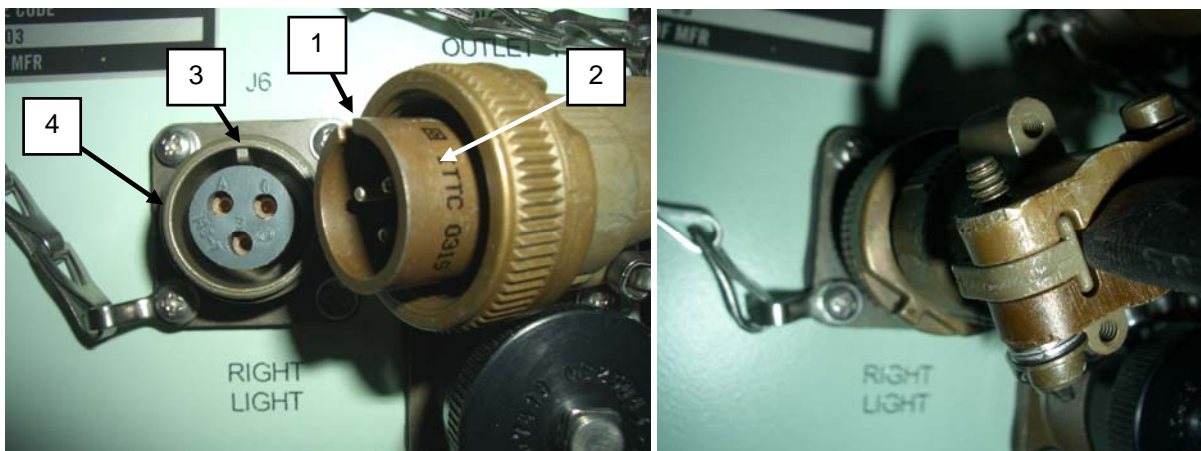


Figure 34. Connect P6 RIGHT LIGHT to J6 RIGHT LIGHT.

INSTALL LIGHTING KIT - CONTINUED

18. At the tent vestibule doorway closest to the ECU vents, lift the left side lighting power extension cable (Figure 35, Item 1) over the doorway and fasten the cable to the tent outer skin above the doorway using the attached tie (Figure 35, Item 2).

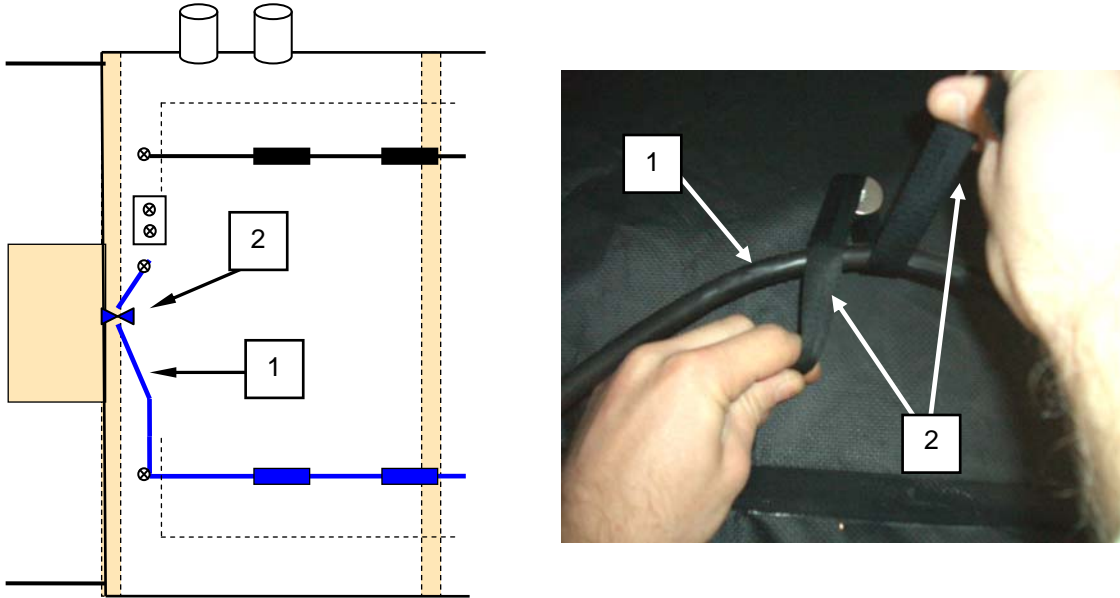


Figure 35. Attach Left Lighting Unit Power Extension Cable over Doorway.

END OF TASK

CONNECT PRIMARY POWER

WARNING



Voltages dangerous to life are present. Use extreme care when handling electrical power cables and connectors. Failure to do so could result in an electrically unsafe condition that could cause death or serious injury from electrocution or damage to equipment.

NOTE

The type of primary power cable used will be dependent on the source of power.

1. Route the primary power cable (not supplied) through the power distribution inlet port (Figure 36, Item 1) between the ECU ducts, to the power distribution box (Figure 36, Item 2).

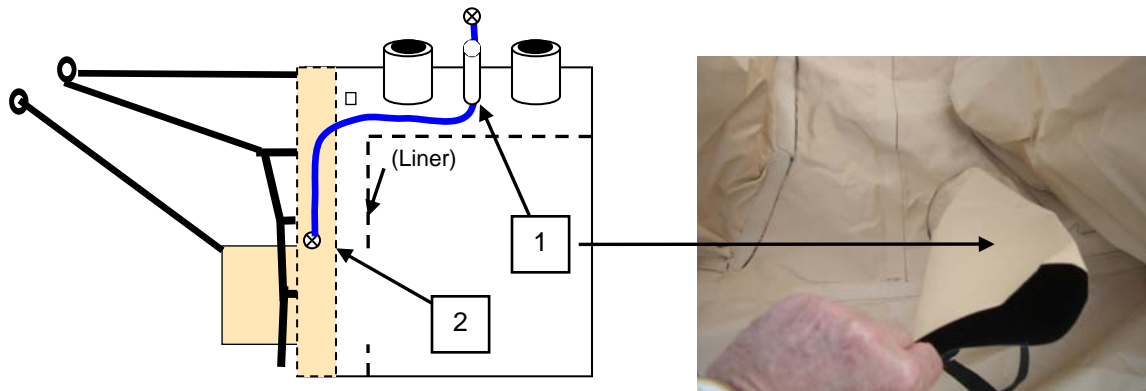


Figure 36. Power Distribution Inlet Port.

2. On the bottom right of the power distribution box, unscrew and remove the threaded plug cover (Figure 37, Item 1) for the J1 POWER IN receptacle jack.

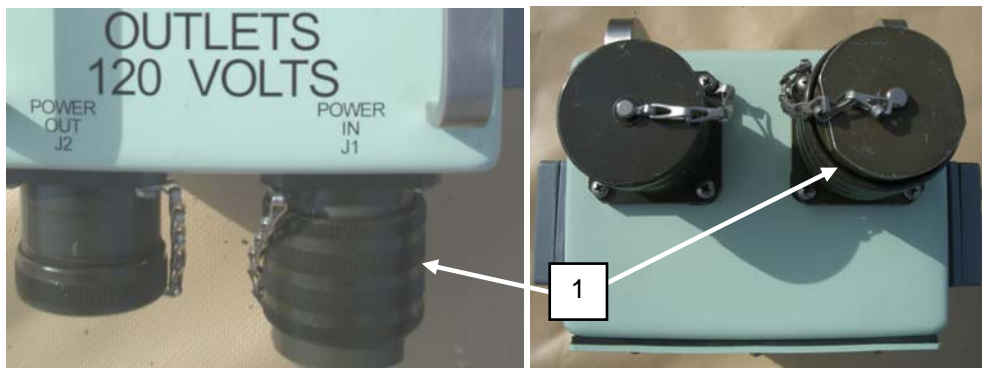


Figure 37. Remove POWER IN J1 Jack Cover.

CONNECT PRIMARY POWER - CONTINUED**WARNING**

Fully seat the plug into the jack for reliable electrical connection of the plug pins into the jack. Failure to do so could result in an electrically unsafe condition that could cause death or serious injury from electrocution or damage to equipment.

3. Align the slot on the primary power cable plug with the key (Figure 38, Item 1) on the J1 POWER IN receptacle jack (Figure 38, Item 2), and press firmly to seat the connector plug pins in the jack.

WARNING

Fully tighten the plug connector shell onto the jack for reliable electrical connection of the plug pins into the jack. Failure to do so could result in an electrically unsafe condition that could cause serious injury or death from electrocution or damage to equipment.

4. Thread and tighten the connector shell (Figure 38, Item 3) to complete the seating of the plug pins into the jack and secure the power connection.

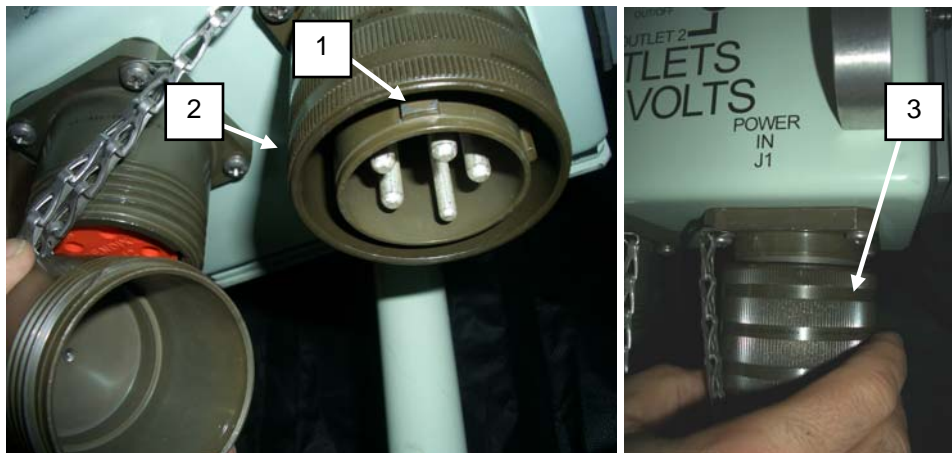


Figure 38. Connect Primary Power Cable to J1 POWER IN.

CONNECT PRIMARY POWER - CONTINUED

- Secure power inlet port snout (Figure 39, Item 1) around the power cable (Figure 39, Item 2).

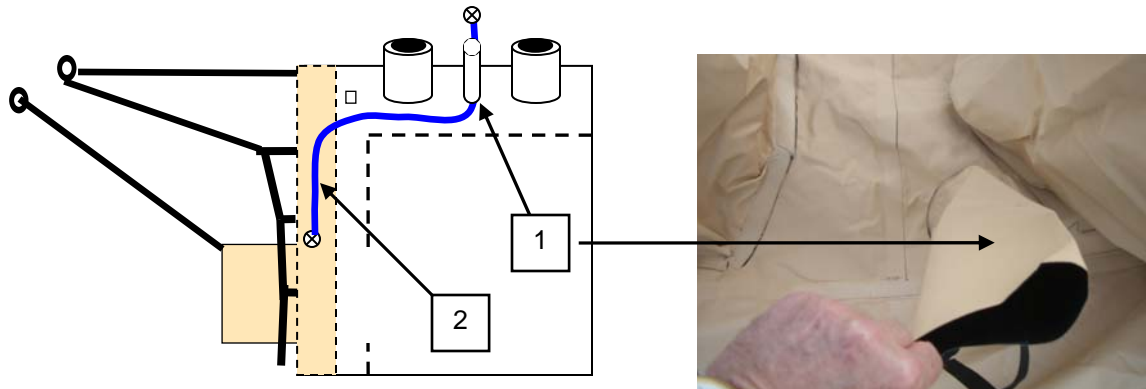


Figure 39. Power Distribution Inlet Port.

END OF TASK**APPLY POWER**

- On the front of the Power Distribution Box, turn both left and right LIGHTS toggle switches (Figure 40, Item 1) to the ON (Up) position.

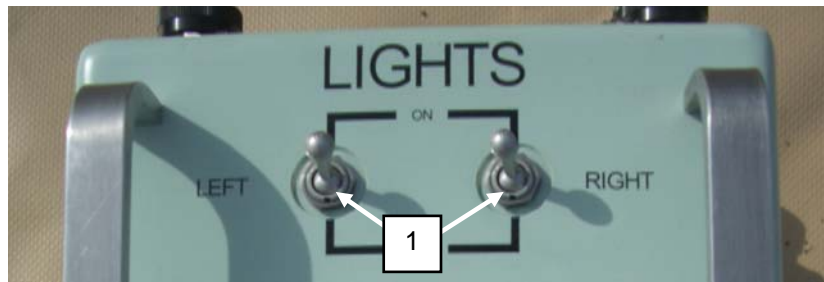


Figure 40. Left and Right Lighting Toggle Switches.

NOTE

Additional quick checks of the power distribution system can be quickly and easily performed on both left and right sides of the tent by checking power availability at the outlet boxes with any electrically powered device although they are not required.

- Verify visually that all TEMPER, Air-Supported left and right lighting units illuminate. If this does not occur, refer to WP 0009 Troubleshooting Index.
- Restore liner hook and loop fasteners, ensuring that all power distribution and lighting cables are routed between the liner and outer main skin.

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE**OPERATION UNDER USUAL CONDITIONS
PREPARATION FOR MOVEMENT**

INITIAL SETUP:**Tools and Special Tools**

Hammer, Sledge (WP 0065, Item 1)
Tool, Stake Removal (WP 0065, Item 5)

Personnel Required

MOS Non-specific (4)

References

WP 0063

Equipment Condition

Shelter empty of equipment.
Shelter external power disconnected.

OPERATING PROCEDURES**NOTE**

During take down, set aside all components, coil all ropes and power cabling for inventory prior to storage.

The following instructions depict how to prepare the 4 Airbeam TEMPER, Air-Supported shelter for movement. However, the take down procedure for the other TEMPER, Air-Supported series is similar.

REMOVE POWER DISTRIBUTION AND LIGHTING KITS

NOTE

Power distribution equipment is installed between the outer skin and liner. Open the liner hook and loop tape fasteners to access power distribution equipment.

1. At the power distribution convenience outlet boxes, disconnect all equipment connected to the convenience outlets (Figure 1, Item 1).

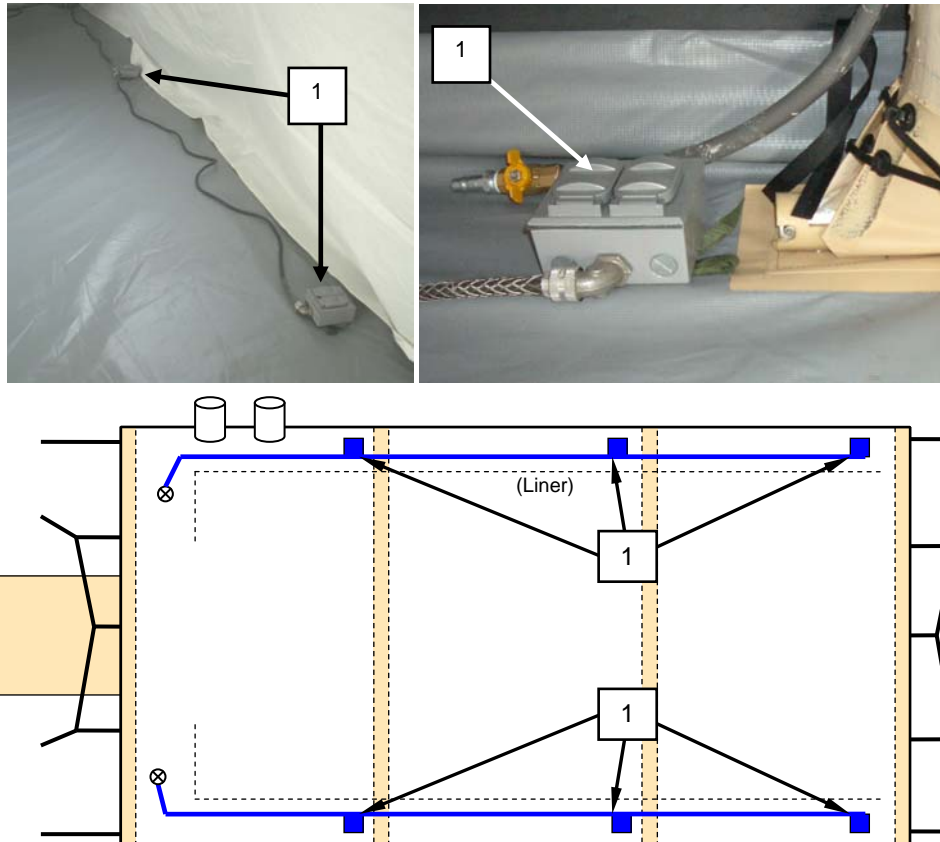


Figure 1. Convenience Outlet Locations.

2. At the power distribution box, place the LEFT and RIGHT LIGHTS toggle switches (Figure 2, Item 1) in the OFF (Down) position.

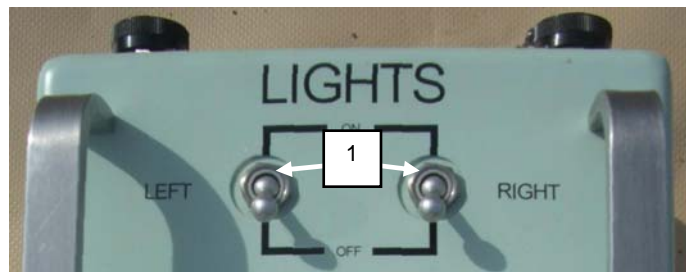


Figure 2. Left and Right Lighting Toggle Switches.

3. For complexed tents, refer to Force Provider System Integration Manual, TM 10-5419-206-13.

REMOVE POWER DISTRIBUTION AND LIGHTING KITS - CONTINUED

4. To disconnect and remove primary power cable:
 - a. At the power distribution box, loosen and disconnect the external power supply cable plug POWER IN P1 (Figure 3, Item 1) from the power distribution box receptacle jack POWER IN J1.
 - b. Replace the threaded jack cover (Figure 3, Item 2) for the J1 POWER IN receptacle jack.

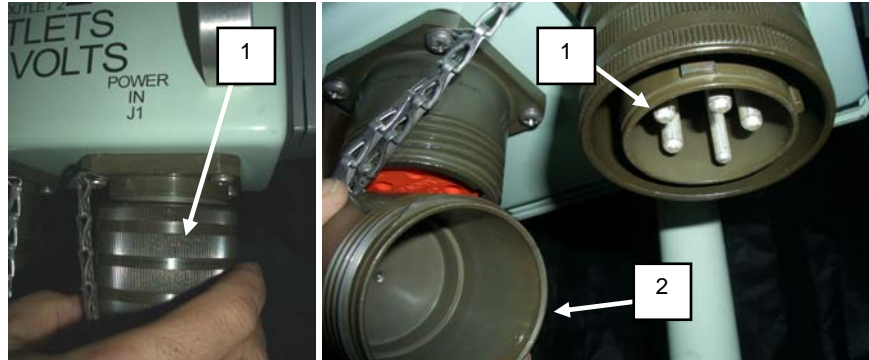


Figure 3. Disconnect Primary Power Cable from J1 POWER IN.

- c. Remove the external primary power cable (Figure 4, Item 1) from the tent through the power distribution inlet port (Figure 4, Item 2) located between the ECU ducts.

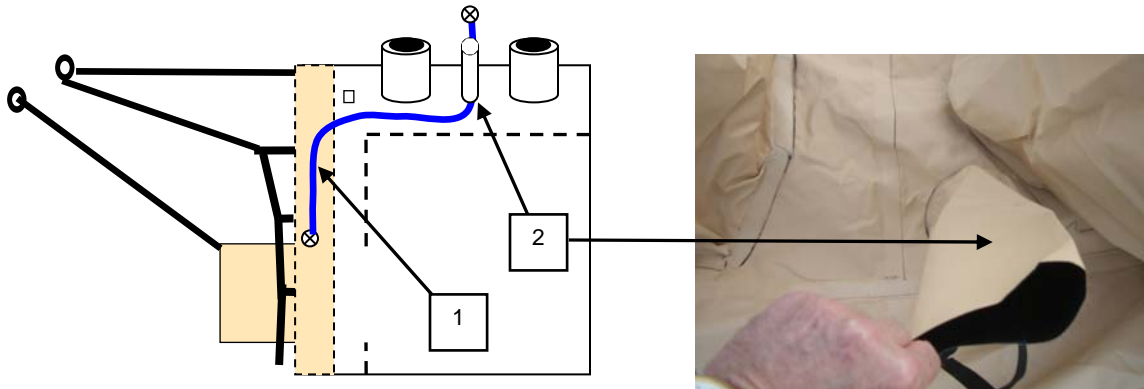


Figure 4. Remove Primary Power Cable.

REMOVE POWER DISTRIBUTION AND LIGHTING KITS - CONTINUED**NOTE**

Lighting kit power cables are stored in the power distribution storage bag. As the cabling is disconnected, keep track of the cables for inventory prior to storage.

5. At the power distribution box, disconnect the power distribution extension cables (Figure 5, Item 1) from the power distribution box jacks J7 and J8 and from the power distribution convenience outlet cable jack, and replace the threaded jack covers. Coil and set the cables aside for inventory prior to storage.
6. Replace the threaded jack covers (Figure 5, Item 2) for the power distribution receptacle jacks J7 and J8.

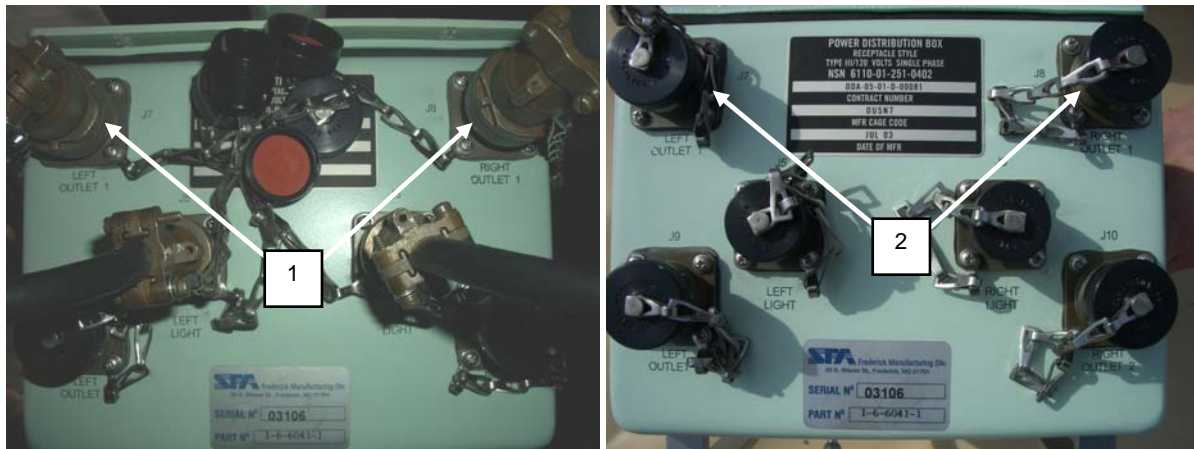


Figure 5. Remove Power Distribution and Lighting Cable Plugs.

REMOVE POWER DISTRIBUTION AND LIGHTING KITS - CONTINUED

7. Remove left and right power distribution cables with outlet boxes (Figure 6, Item 1), and replace the threaded jack covers. Coil and set aside these cables for inventory prior to storage:

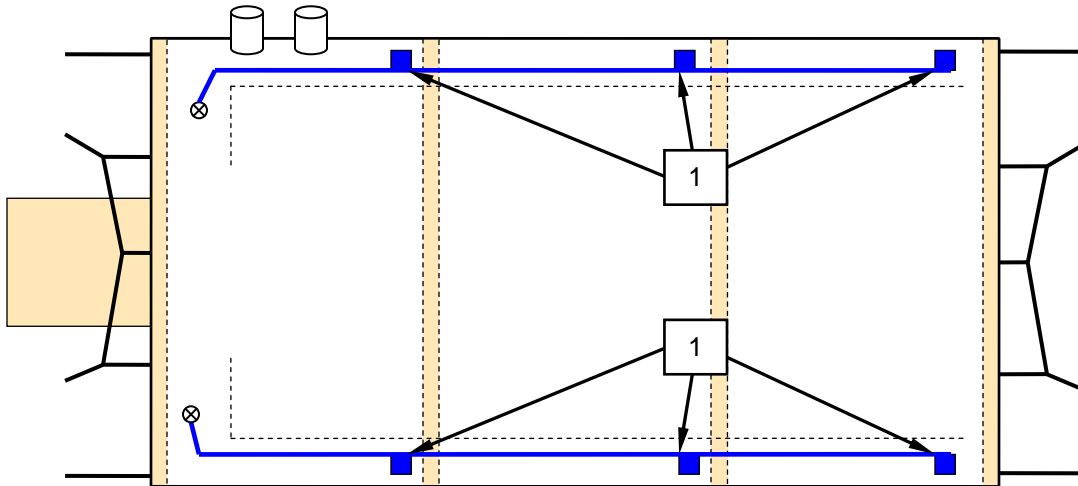
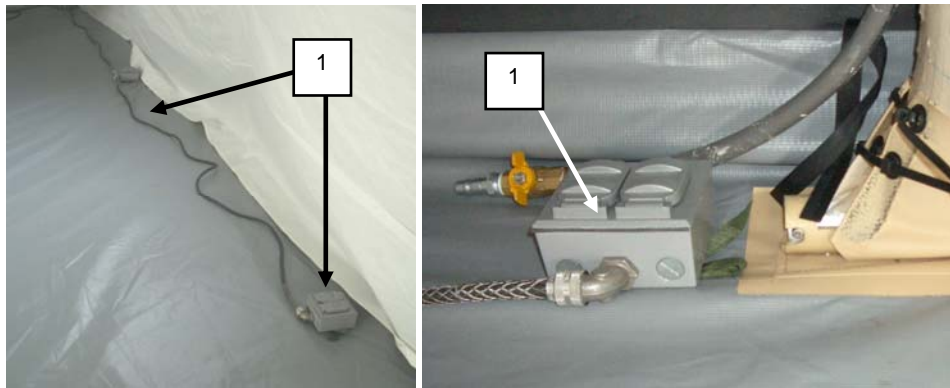


Figure 6. Remove Power Distribution Convenience Outlet Cables.

REMOVE POWER DISTRIBUTION AND LIGHTING KITS - CONTINUED

8. Remove Lighting Kit:

NOTE

Three airbeam tents have six light units. Four airbeam tents have eight light units. The lighting kit removal procedure is the same for both.

Left and right lighting extension cables are located between the liner and outer skin, and connect the left and right lighting strings to the power distribution box.

- a. At the power distribution box, disconnect the lighting extension cable plugs (Figure 7, Item 1) from LEFT LIGHT J5 and RIGHT LIGHT J6, and from the lighting fixtures.
- b. Replace the threaded jack covers for LEFT LIGHT J5 and RIGHT LIGHT J6 (Figure 7, Item 2) on the power distribution box receptacle jacks.



Figure 7. Disconnect Lighting Cable Plugs.

- c. Remove the left (Figure 8, Item 1) and right (Figure 8, Item 2) lighting extension cables, and replace the threaded jack covers. Coil and set the cables aside for inventory prior to storage.

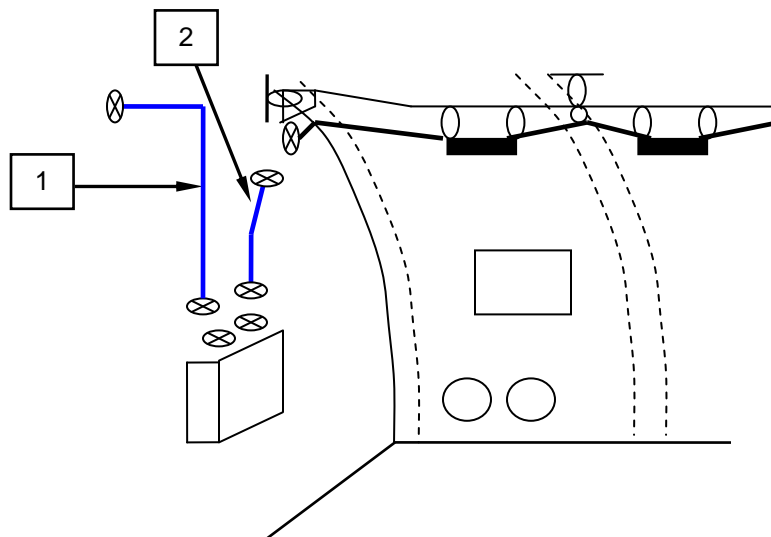


Figure 8. Remove Lighting Extension Cables.

REMOVE POWER DISTRIBUTION AND LIGHTING KITS - CONTINUED**CAUTION**

Lighting fixtures are suspended by connecting straps. Ensure that fixtures are supported while removing the straps. Failure to do so may result in damage to equipment.

- d. Disconnect the hook and loop connecting straps (Figure 9, Item 1) that secure the light fixture power cords, and unplug the light fixture power cords.
- e. Disconnect the connecting straps (Figure 9, Item 2) that secure the lighting fixture (Figure 9, Item 3), and place lighting fixture (Figure 10, Item 1) in storage container.

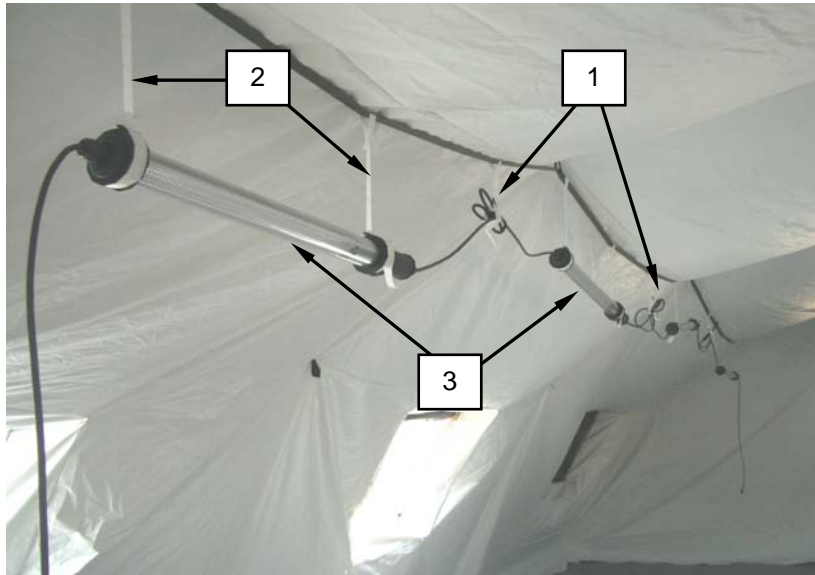


Figure 9. Disconnect Lighting Fixtures.



Figure 10. Lighting Storage Container.

- f. Repeat Steps d and e for all remaining lighting fixtures.

REMOVE POWER DISTRIBUTION AND LIGHTING KITS - CONTINUED

9. Remove the power distribution box (Figure 11, Item 1) from the mounting pole (Figure 11, Item 2) by lifting the power distribution box upwards until the pins (Figure 11, Item 3) on the back of the power distribution box release from the slotted holes (Figure 11, Item 4) on the mounting plate.

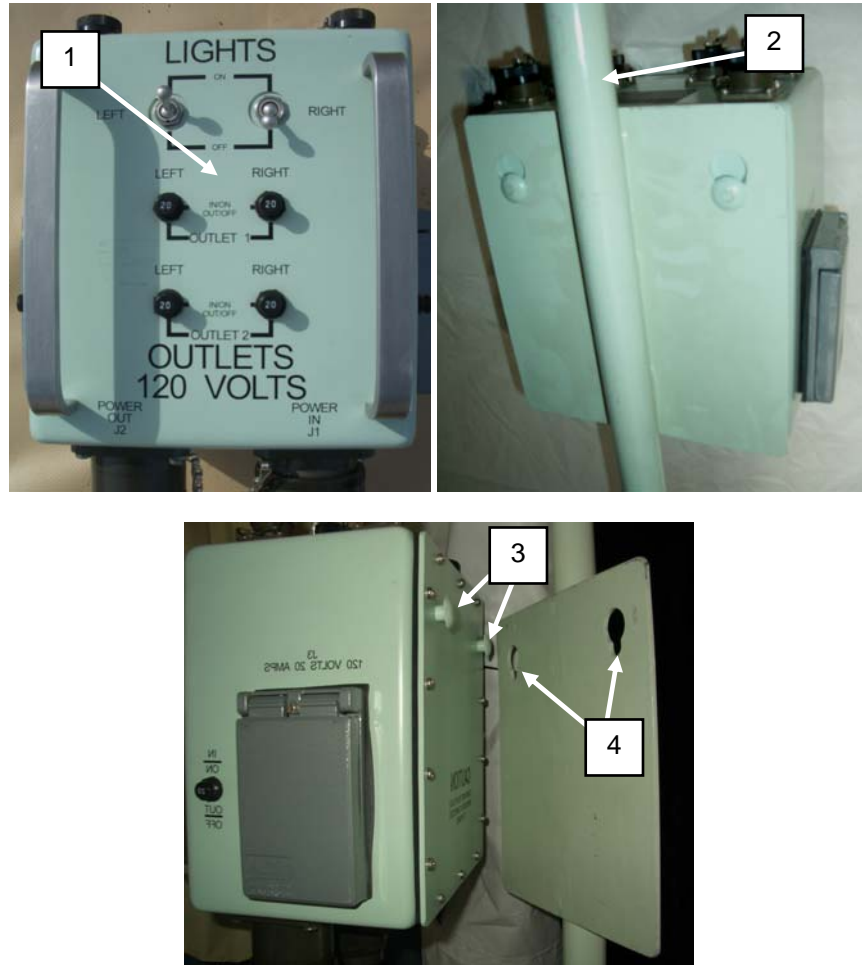


Figure 11. Remove Power Distribution Box.

REMOVE POWER DISTRIBUTION AND LIGHTING KITS - CONTINUED

10. Remove the bottom pin on the power distribution box mounting pole (Figure 12, Item 1), and remove the mounting pole by lifting the mounting pole upward and sliding the mounting pole footer plate (Figure 12, Item 2) out and away from under the airbeam, releasing mounting pole from the airbeam mounting block (Figure 12, Item 3).

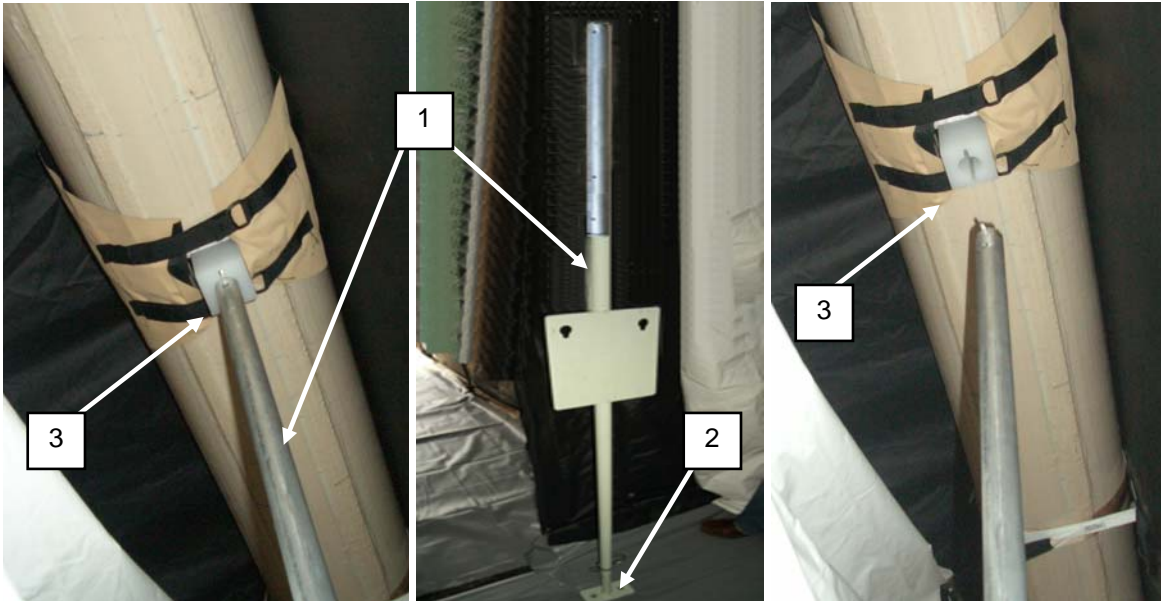


Figure 12. Remove Power Distribution Box Mounting Pole.

11. Collapse the mounting pole by removing the upper securing pin (Figure 13, Item 1) and retracting the upper pole section into the middle section to minimize the total height.

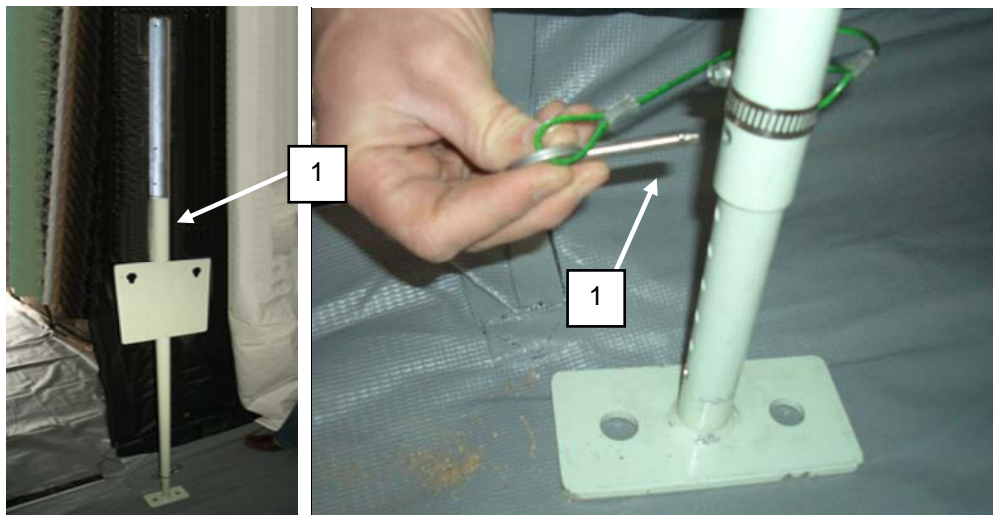


Figure 13. Collapse Power Distribution Box Mounting Pole.

12. Insert pins at lowest position on mounting pole.
13. Remove power distribution and lighting components from the shelter and set aside for inventory prior to storage.

END OF TASK

PREPARE FOR TAKE DOWN**NOTE**

The liner air plenum connects to an external Environmental Control Unit (ECU) through the ECU ports.

1. If installed, remove ECU ducts by disconnecting strap from plenum.
2. Remove all remaining objects from inside the tent (cables, hardware, tools).

NOTE

Ensure that one window panel on each side of the shelter is fully open (window cover and plastic window rolled up, with only the screen in place). This enables the shelter to deflate more rapidly, and reduces wear on the shelter during deployment.

3. Place one window panel on each side of the tent in the fully open position (window cover and plastic window rolled up, with only the screen in place). Reinstall any detached window panels. Untie and roll down window panels (Figure 14, Item 1), securing the window panel perimeter hook and loop fastening strips (Figure 14, Item 2).

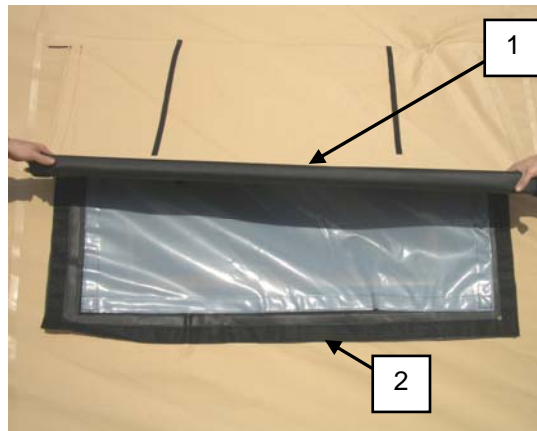


Figure 14. Roll Down Window Panels.

4. Remove any tent pins or securing devices from tent exterior mud flaps (Figure 15, Item 1).

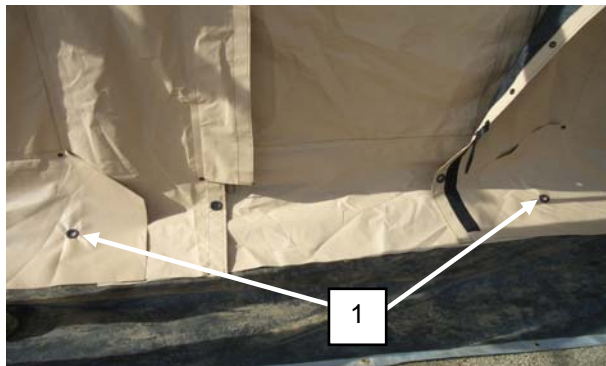


Figure 15. Tent Mud Flaps.

PREPARE FOR TAKE DOWN - CONTINUED

5. Remove side ropes and tent pins:
 - a. Relax the plastic tent slip (Figure 16, Item 1).
 - b. Remove the side rope (Figure 16, Item 2) from the tent pin (Figure 16, Item 3), and remove the tent pin from the ground.



Figure 16. Remove Side Ropes and Tent Pins.

- c. Repeat Steps a. and b. for all remaining side ropes (Figure 17, Item 1).

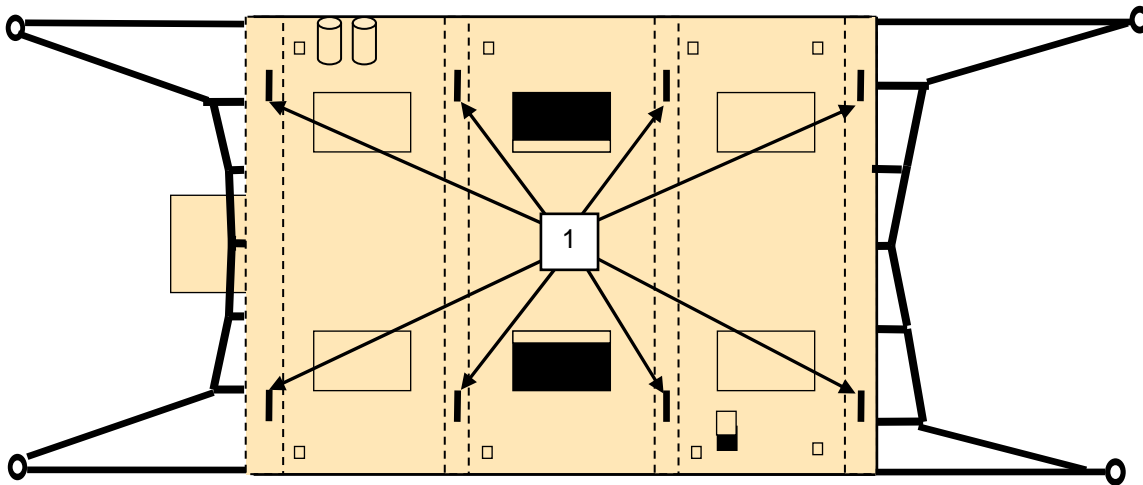


Figure 17. Remove Side Ropes and Tent Pins.

PREPARE FOR TAKE DOWN - CONTINUED

6. At the vestibule tent door, untie and roll down the tent door panel (Figure 18, Item 1).

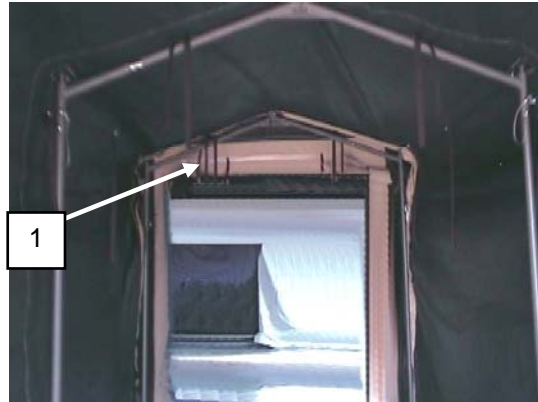


Figure 18. Roll Down Tent Door Panel.

7. Untie, remove and fold up the vestibule floor panel (Figure 19, Item 1) for storage.



Figure 19. Remove Vestibule Floor Panel.

8. Untie eight vestibule ties (Figure 20, Item 1) from each vestibule frame leg.

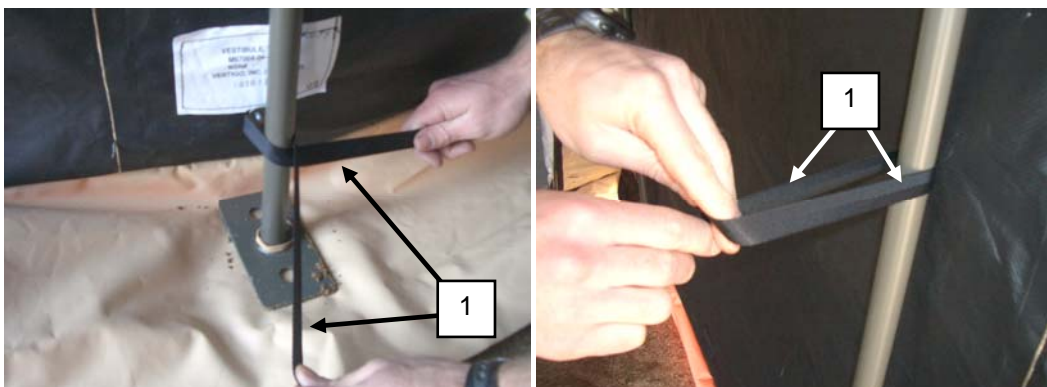


Figure 20. Untie Vestibule Material from Vestibule Frames.

PREPARE FOR TAKE DOWN - CONTINUED

9. At the vestibule outer door panel, untie, roll down and zipper the door panel (Figure 21, Item 1) closed. Fasten the two clips (Figure 21, Item 2) at the bottom of the door panel.



Figure 21. Roll Down and Secure Vestibule Door.

10. Remove and un-stake the vestibule guy lines (Figure 22 Item 1).

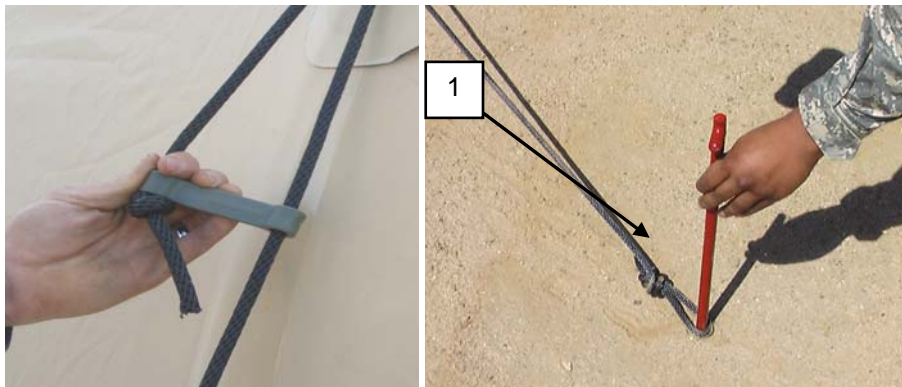


Figure 22. Plastic Tent Slip.

11. Remove and store the two vestibule guy line 18 inch tent pins.
12. Untie and unlace the vestibule door panel bucket lacing fasteners. Fold up for storage.

PREPARE FOR TAKE DOWN - CONTINUED

13. Remove the hitch clip pins from the vestibule frame header spindles. Lift the vestibule grommets (Figure 23 Item 1) off the spindles (Figure 23 Item 2).

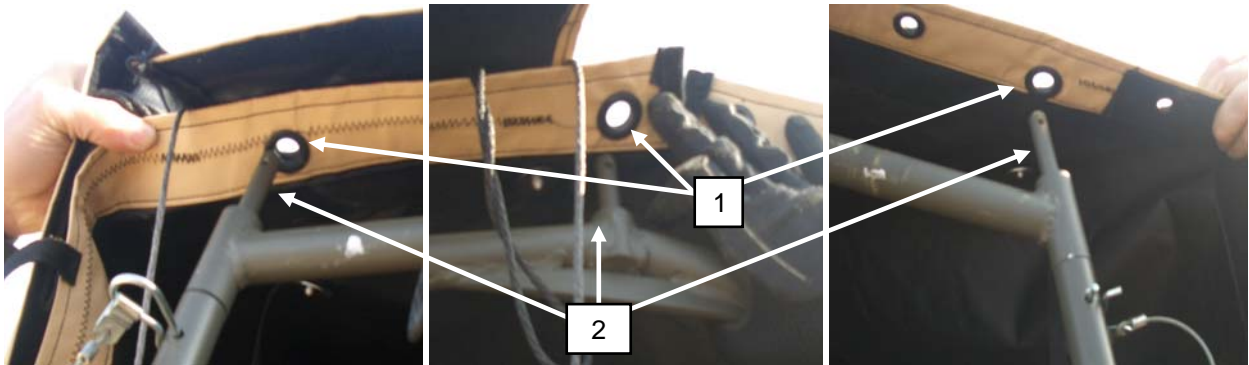


Figure 23. Lift Vestibule Material from Frame Spindles.

14. At the end vestibule frame, lift and remove the vestibule end panel grommets (Figure 24 Item 2) off the frame spindles (Figure 24 Item 1).

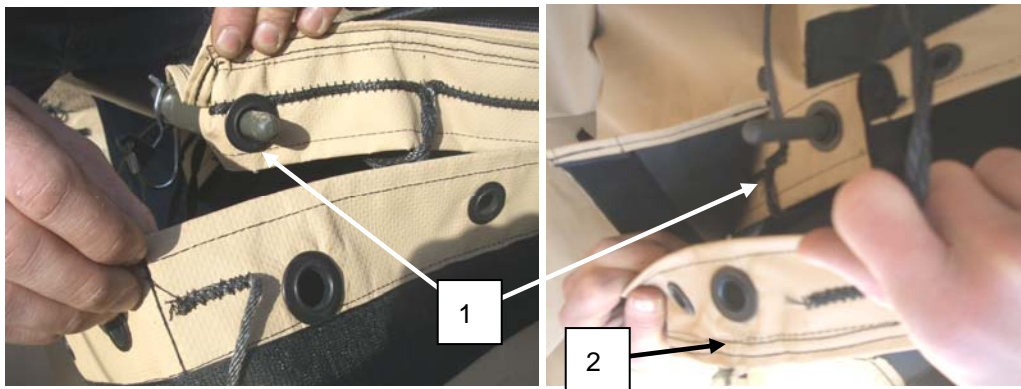


Figure 24. Remove Vestibule End Panel.

15. On the outside of the vestibule material, remove the hitch clip pins (Figure 25 Item 1) securing the vestibule material grommets onto the vestibule frame header section spindles (Figure 25 Item 2).

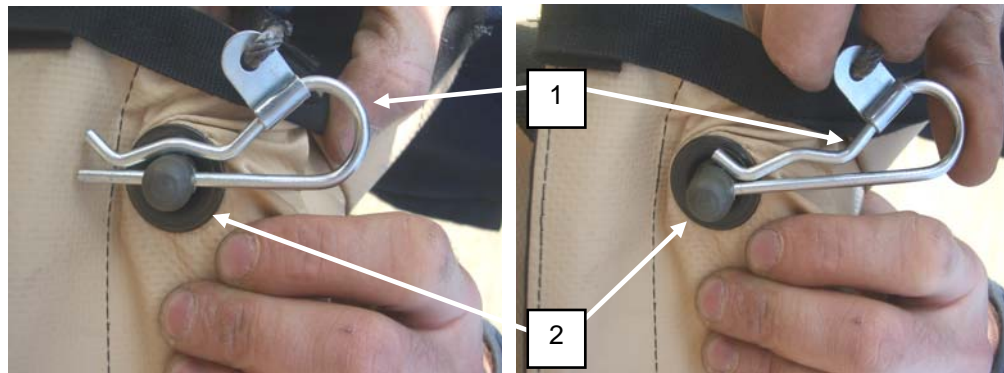


Figure 25. Remove Hitch Clip Pins from Vestibule Frame Spindles.

PREPARE FOR TAKE DOWN - CONTINUED

16. Remove the vestibule frames (Figure 26, Item 1), and disconnect the vestibule frame sections.



Figure 26. Remove Vestibule Frame Sections.

17. Set aside vestibule assembly components for inventory prior to packing with carrying bag.

PREPARE FOR TAKE DOWN - CONTINUED

WARNING



Bracing straps under tension can release with great force and pose a pinch hazard when slackened at the tensioning ratchets. Keep fingers and clothing clear of tensioning ratchets when slacking bracing straps. Failure to do so could result in injury to personnel.

18. Slack all snow straps and all external bracing straps at tensioning ratchets (door end of tent) (Figure 27, Item 1), by pulling in the tension release handle of the tensioning ratchet (Figure 27, Item 2).

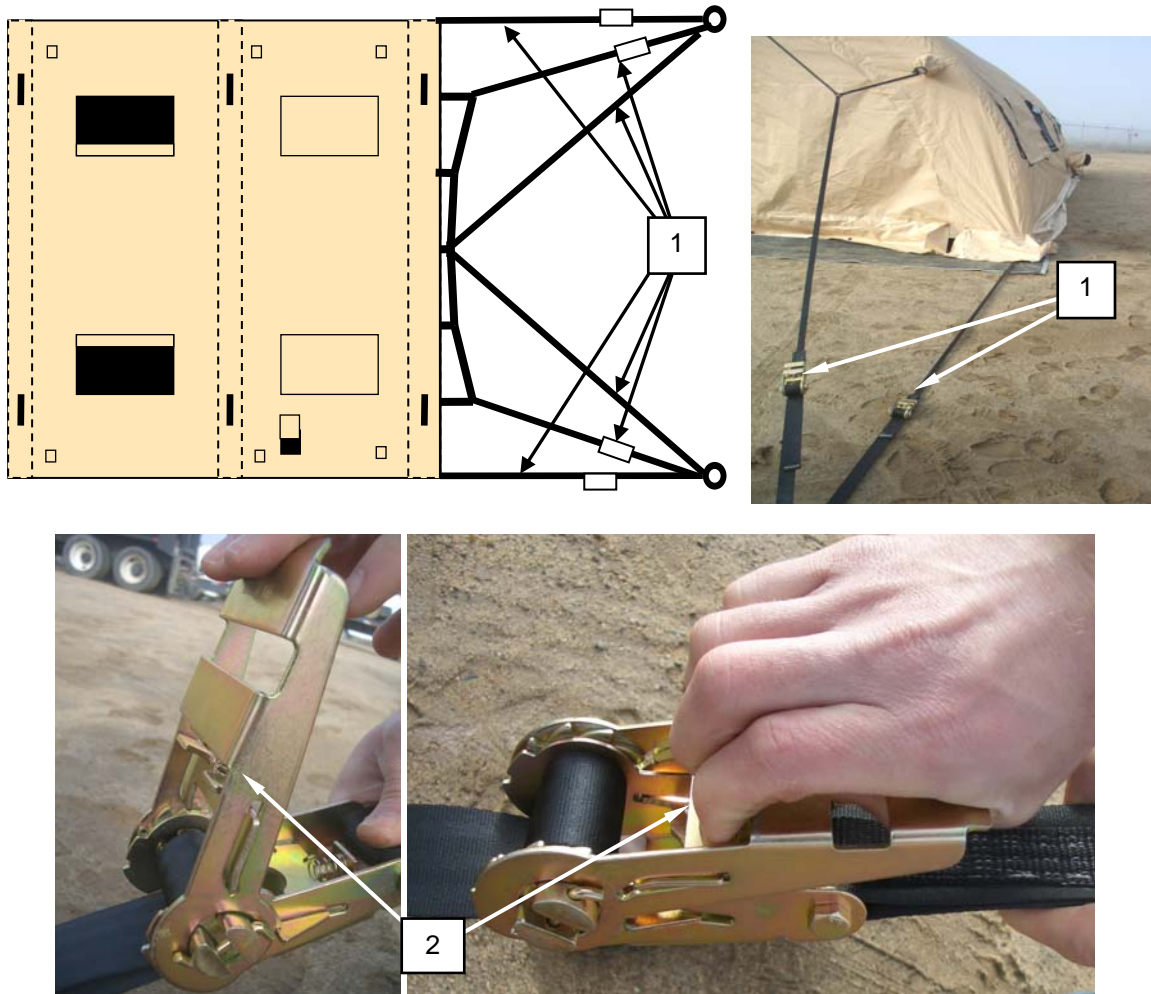


Figure 27. Slacken External Bracing Straps.

19. Remove objects within six feet of each side of the tent.

END OF TASK

TAKE DOWN THE TENT**CAUTION**

Verify that 'Prepare for Take Down' paragraph has been accomplished prior to taking down the tent by deflating the airbeams. Failure to do so can damage equipment.

1. On the inflation manifold side of the tent, open each airbeam pigtail inflation valve access pocket (Figure 28, Item 1) and open all four airbeam inflation ball valves (Figure 28, Item 2).

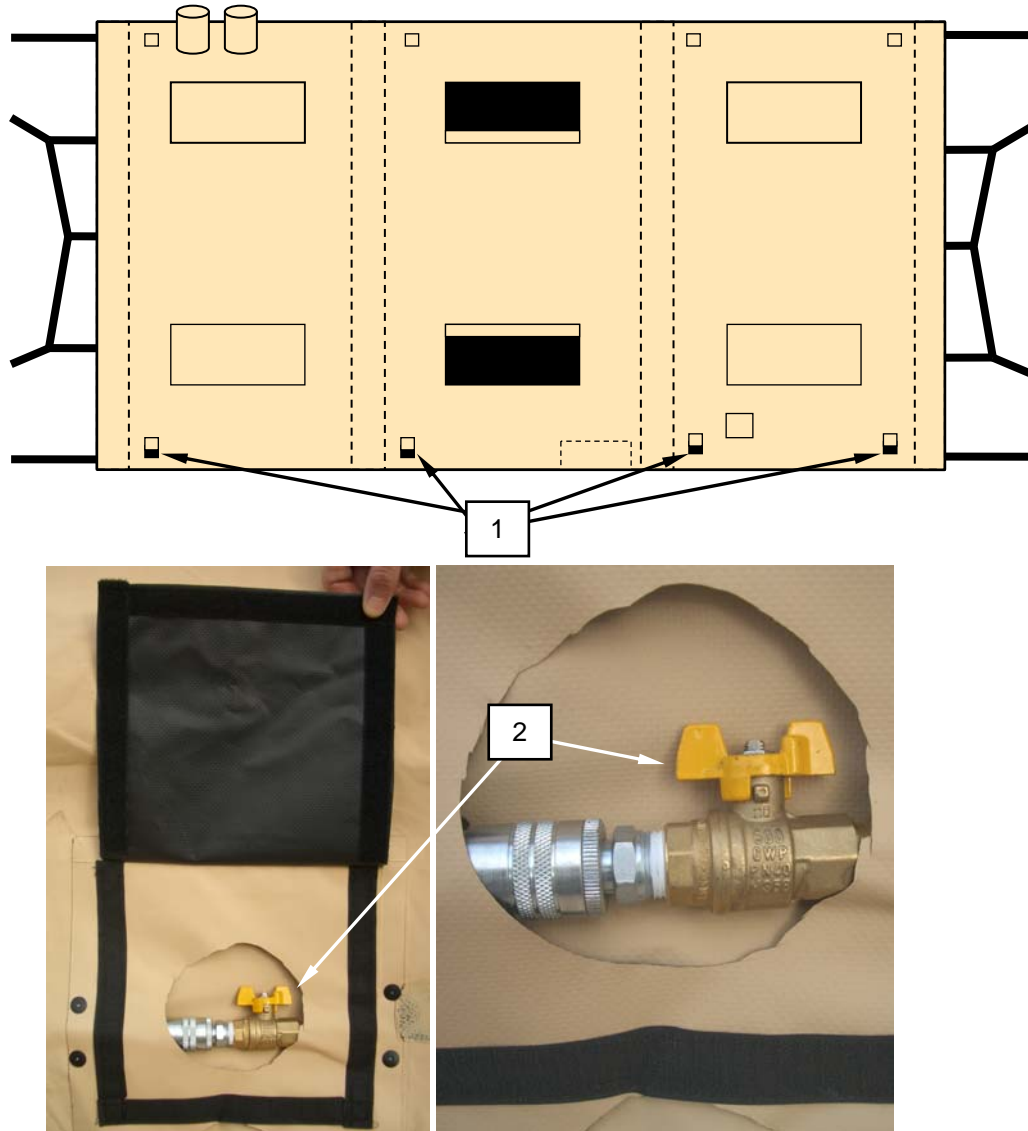


Figure 28. Airbeam Inflation Valves Open.

TAKE DOWN THE TENT - CONTINUED

NOTE

Inflation and deflation air hoses must be pulled out of the manifold hose access pocket. The inflation air hose is labeled 'TO COMPRESSOR', and the deflation air hose is labeled 'DEFLATE.'

2. Open the manifold hose access pocket (Figure 29, Item 1), and pull the deflation (Figure 29, Item 2) and inflation air hose (Figure 29, Item 3) out of the pocket.

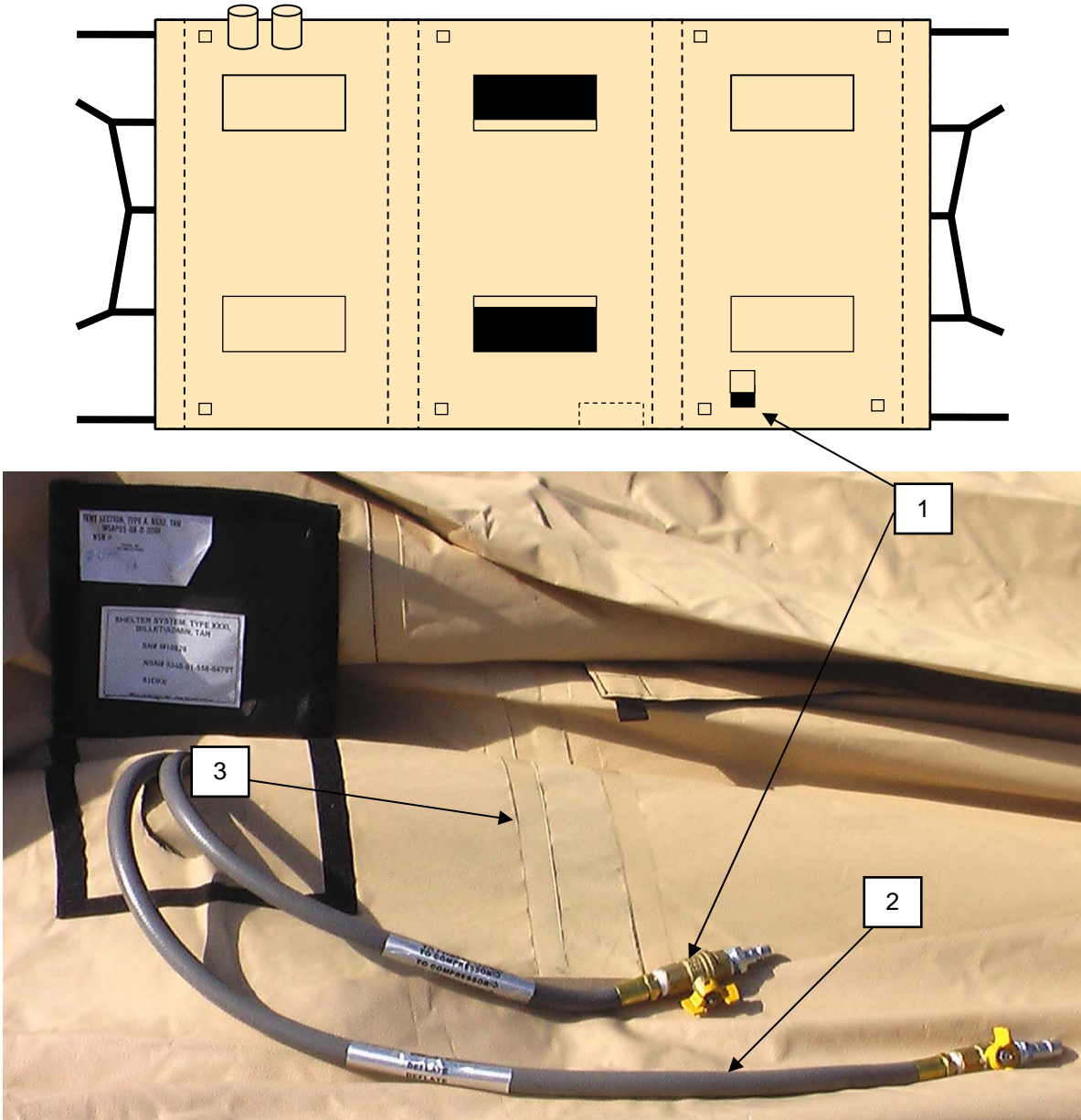


Figure 29. Deflation and Inflation Air Hose Ball Valves Closed.

TAKE DOWN THE TENT - CONTINUED**WARNING**

Air hoses can move with extreme force when under pressure. Maintain physical control of air hoses when deflating airbeams. Failure to do so could result in injury to personnel or damage to equipment.

NOTE

Deflating the shelter usually takes 15-20 minutes before the airbeams can be knuckled-over, then an additional 20-25 minutes to completely deflate, for a total elapsed time of 35 - 45 minutes to completely deflate the shelter.

3. Open the deflation air hose ball valve (Figure 30, Item 1) to deflate the airbeams.

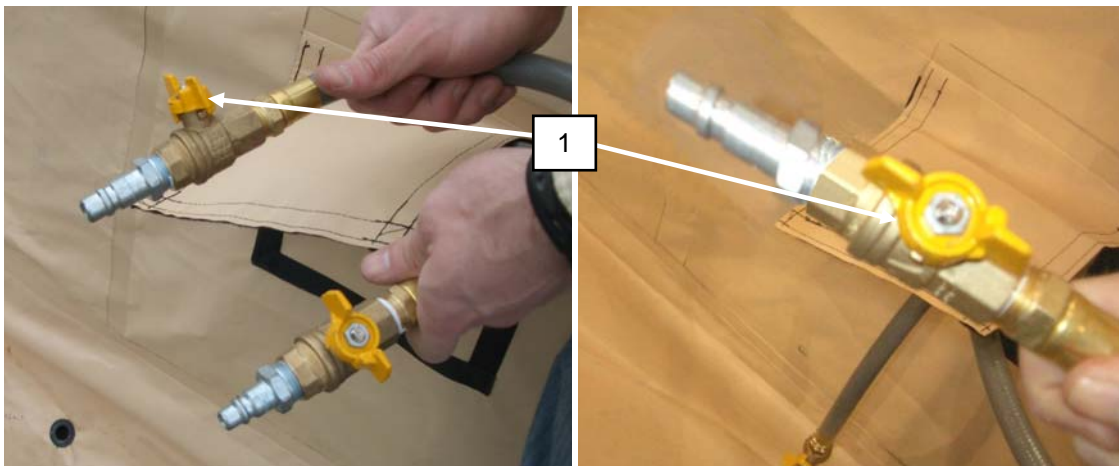


Figure 30. Open Deflation Air Hose Ball Valve.

TAKE DOWN THE TENT - CONTINUED**NOTE**

Position all personnel on the same side of the tent during airbeam deflation to guide the tent into a knuckle-over configuration to simplify rollup and storage.

As the airbeams deflate, collapse the airbeam at the side rope fastener and collapse each airbeam at the same point.

4. Collapse the airbeams inward at the side rope fastener (Figure 31, Item 1), and put the tent into the knuckle-over configuration.



Figure 31. Knuckle Over the TEMPER, Air-Supported Shelter.

TAKE DOWN THE TENT - CONTINUED**NOTE**

Once the shelter is collapsed, the airbeam purge vacuum is employed to remove remaining air.

5. Position the airbeam purge vacuum (Figure 32, Item 1) near the manifold hose access pocket (Figure 32, Item 2).

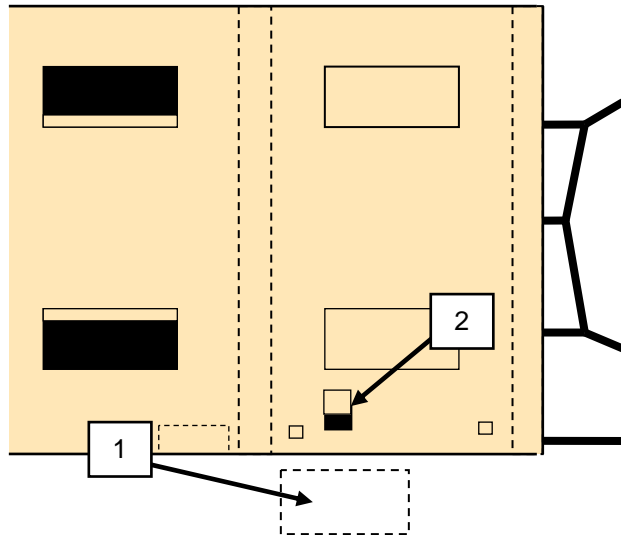


Figure 32. Airbeam Purge Vacuum Placement.

CAUTION

Do not tightly connect or tape the airbeam purge vacuum hose to the deflation air hose. Too tight of a seal, when the air is scavenged, could burn out the shop vacuum motor.

6. Connect the airbeam purge vacuum power cord to an external 115 VAC power source, turn on the airbeam purge vacuum, and loosely place the airbeam purge vacuum hose (Figure 33, Item 1) over the deflation hose (Figure 33, Item 2).

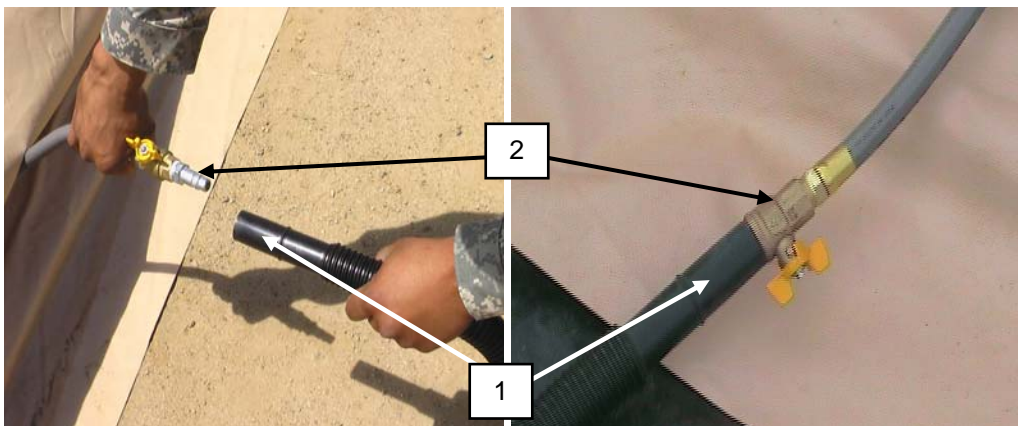


Figure 33. Connect Airbeam Purge Vacuum Hose Over Deflation Air Hose.

TAKE DOWN THE TENT - CONTINUED**NOTE**

Having personnel walk directly on the deflating airbeams ensures a flat fold and forces escaping air towards the manifold, which speeds deflation and makes airbeam positioning more uniform for easier folding and rolling up of the tent.

7. Align the airbeam folds (Figure 34, Item 1) so that they are directly over the airbeam, then walk (Figure 34, Item 2) on the deflating airbeams in the direction of the manifold side of the tent. Repeat until all airbeams are flat.

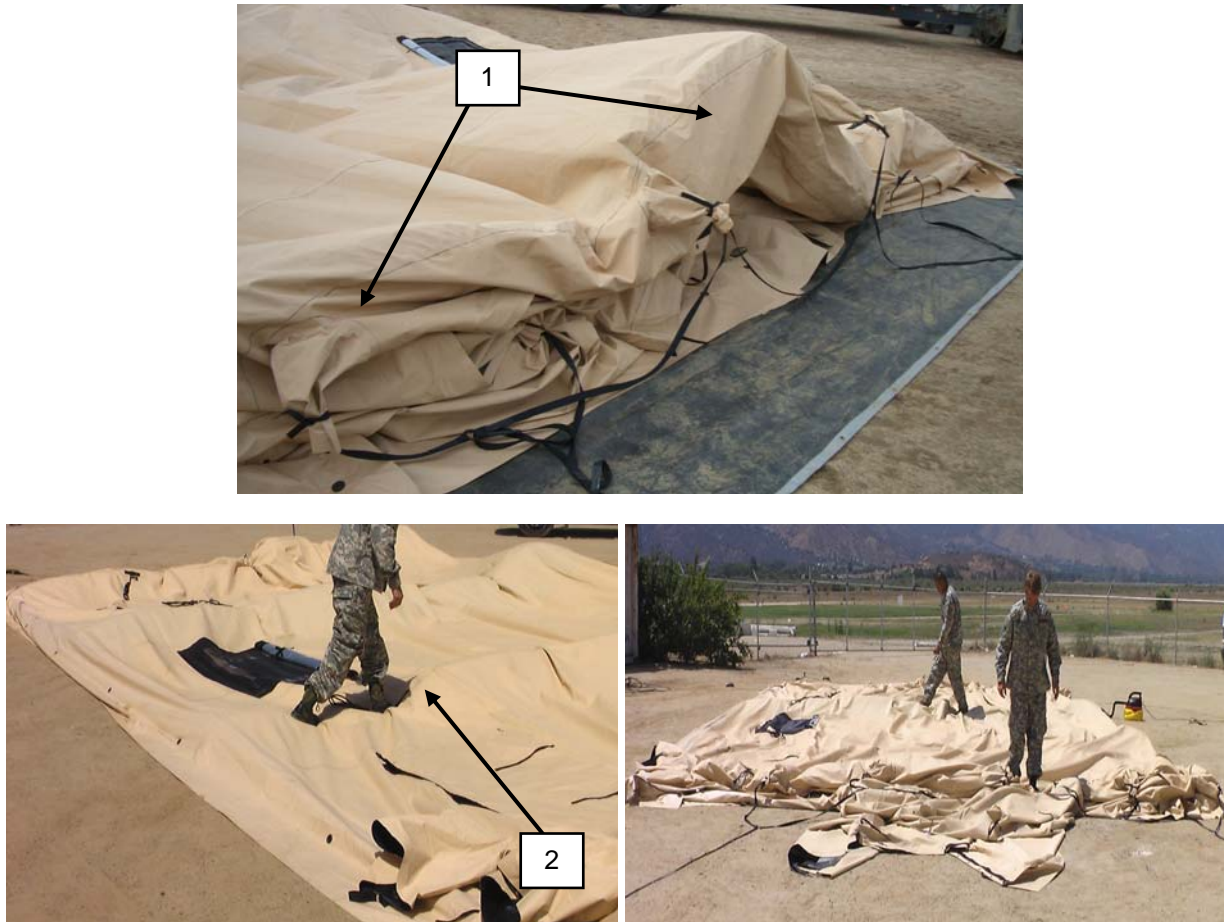


Figure 34. Walking the Airbeams During Deflation.

NOTE

Leave the airbeam purge vacuum in position and connected to an external 115 VAC power source, as it may be used to remove additional air during tent folding.

8. When the airbeam purge vacuum starts to labor or the airbeams are flat, shut off the airbeam purge vacuum. Leave the airbeam purge vacuum in position and connected to an external 115 VAC power source.
9. At the four 36 inch tent pins, remove the snow straps and place on top of the shelter.
10. Place the vestibule material on top of the tent outer skin.

TAKE DOWN THE TENT - CONTINUED**NOTE**

The stake removal tool and appropriate lifting device may be required to remove the 36-inch tent pins from the ground. Depending on the ground conditions, a sledge hammer may be sufficient to loosen the 36-inch tent pins for removal, alternately striking the 36-inch tent pins from side to side.

11. Using stake removal tool (Figure 35, Item 1) with an appropriate lifting device or sledge hammer, remove the 36-inch tent pins from the ground.
12. Remove the external bracing strap rings (Figure 35, Item 2) from the 36-inch tent pins, and lay them on top of the tent outer skin.

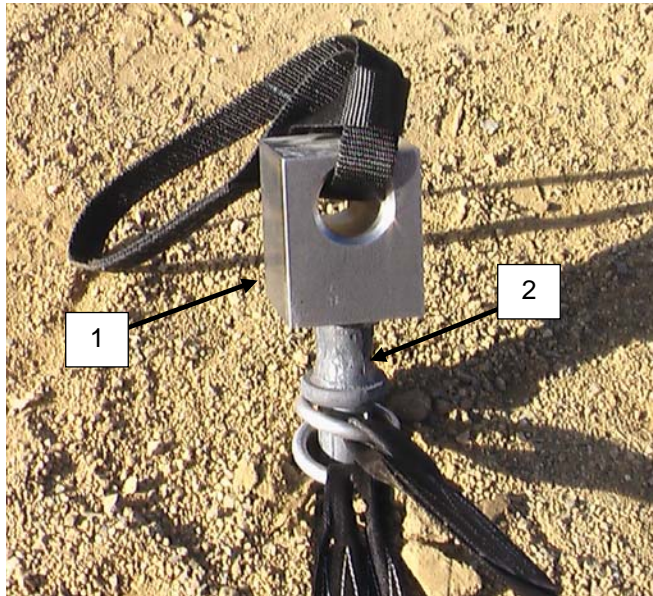


Figure 35. Remove 36 Inch Tent Pins.

END OF TASK

PREPARE TENT FOR STORAGE**NOTE**

The following procedure is described for a four airbeam tent. For three-airbeam tents, the folding method is the same.

1. Clean and inventory the TEMPER, Air-Supported components IAW WP 0063 prior to folding the tent.

CAUTION

Do not use mudflaps to fold or position the tent. Failure to observe this caution can result in damage to the equipment.

NOTE

When the folding and rolling process is completed, the tent will have two folds that will lay the airbeams on top of themselves, then tightly rolled to fit into the shipping container.

2. First fold the tent in half lengthwise towards the manifold side, across the width of the tent (Figure 36).

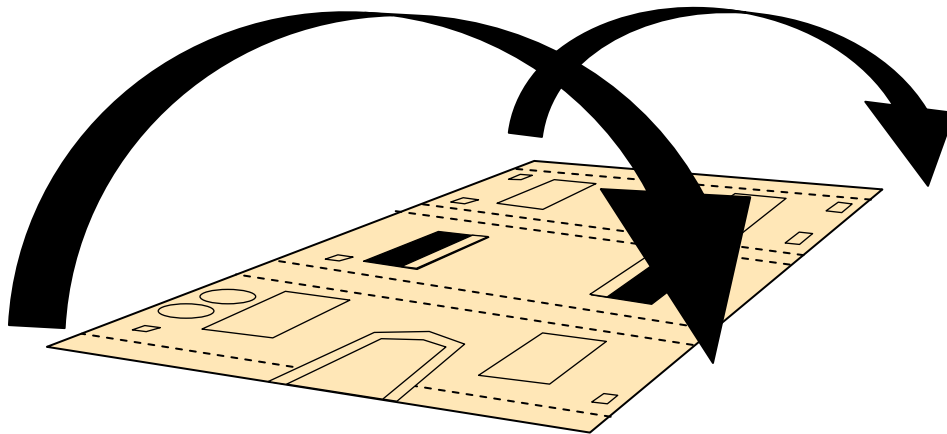


Figure 36. First Fold of TEMPER, Air-Supported Shelter.

PREPARE TENT FOR STORAGE - CONTINUED**NOTE**

When the next fold is completed, the folded tent should be 72 inches wide or less, to fit into the shipping container.

During the folding process, the airbeam purge vacuum may be used to remove additional air during tent folding.

3. As needed, energize the airbeam purge vacuum to remove additional air until the airbeam purge vacuum starts to labor or the airbeams are flat, then shut off the airbeam purge vacuum.
4. Make the second fold of tent lengthwise towards the manifold side, across the width of the tent (Figure 37).

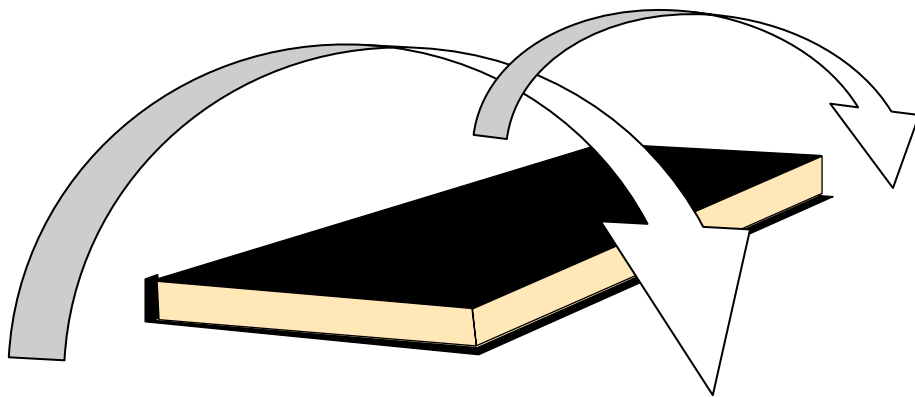


Figure 37. Second Fold of TEMPER, Air-Supported Shelter.

PREPARE TENT FOR STORAGE - CONTINUED

5. Fold one end of the tent back upon itself far enough to position and spread the transport cover with the large transport cover loops (Figure 38, Item 1) away from the tent, then unfold the end of the tent centered over the transport cover.

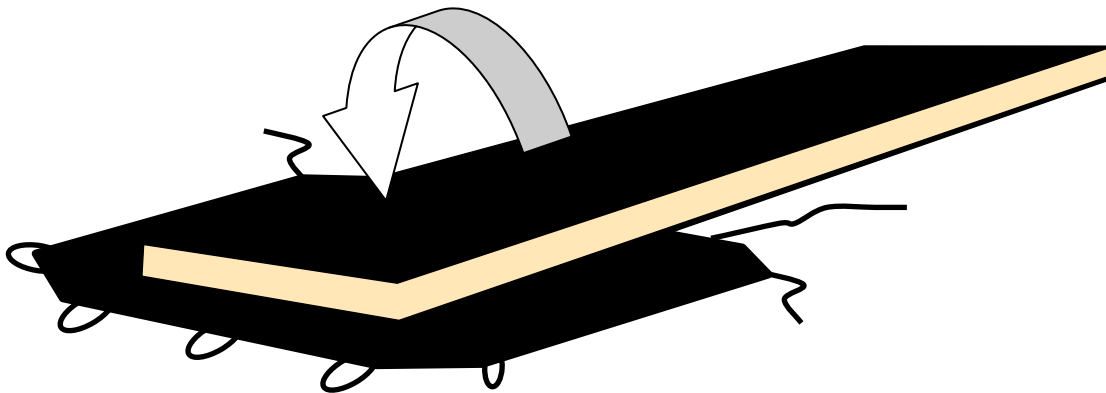
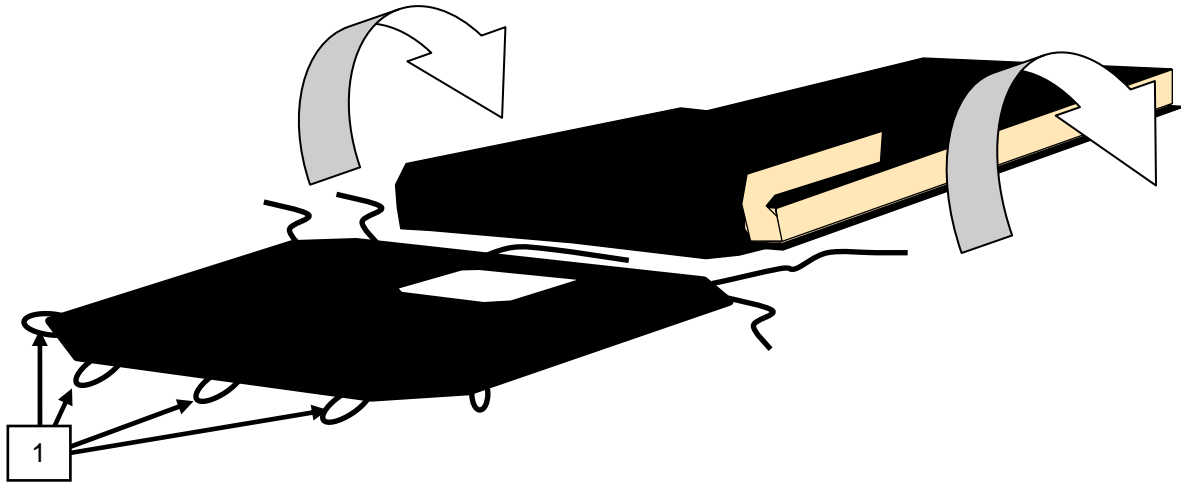


Figure 38. Position Transport Cover under TEMPER, Air-Supported.

PREPARE TENT FOR STORAGE - CONTINUED**NOTE**

When rolled for shipping, the tent must fit within the confines of the transport cover, which requires a tight roll of the shelter to fit the 32 foot long, four airbeam TEMPER, Air-Supported shelter into the required space.

6. From the end of the folded tent furthest from the transport cover, make a tight roll of the tent, towards the transport cover (Figure 39).

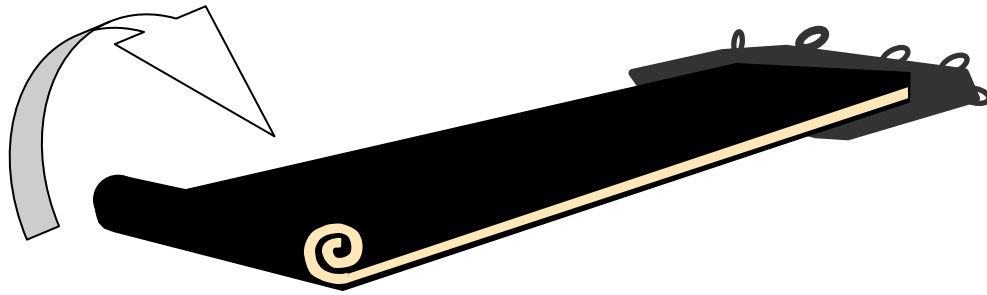


Figure 39. Roll TEMPER, Air-Supported.

PREPARE TENT FOR STORAGE - CONTINUED

7. Roll the tent onto the transport cover (Figure 40), centering the TEMPER, Air -Supported shelter on the far end of the transport cover.

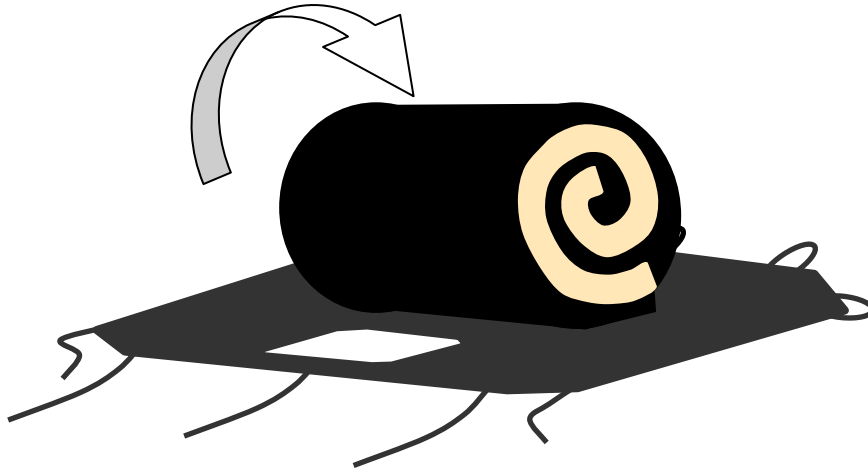


Figure 40. Rolled Tent on Transport Cover.

PREPARE TENT FOR STORAGE - CONTINUED

8. Wrap the transport cover over the tent (Figure 41).

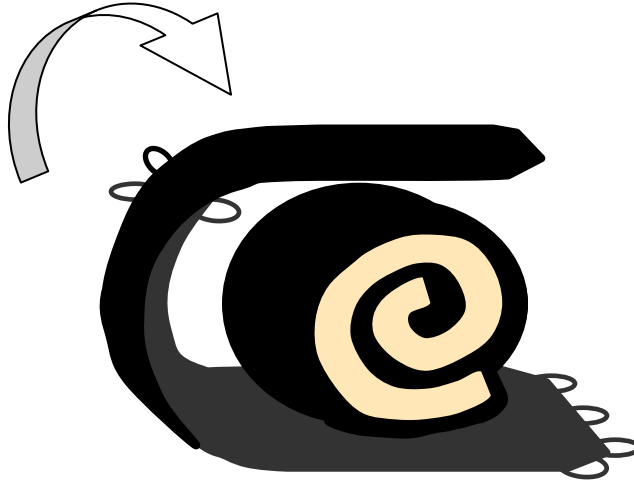


Figure 41. Wrap Transport Cover over Tent.

PREPARE TENT FOR STORAGE - CONTINUED

9. Using three tie lines, insert the looped end of a tie line (Figure 42, Item 1) through the large lower loop on the end of the transport cover (Figure 42, Item 2). Insert free end of tie line (Figure 42, Item 3) through the opposite side loop (Figure 42, Item 4) of the transport cover.

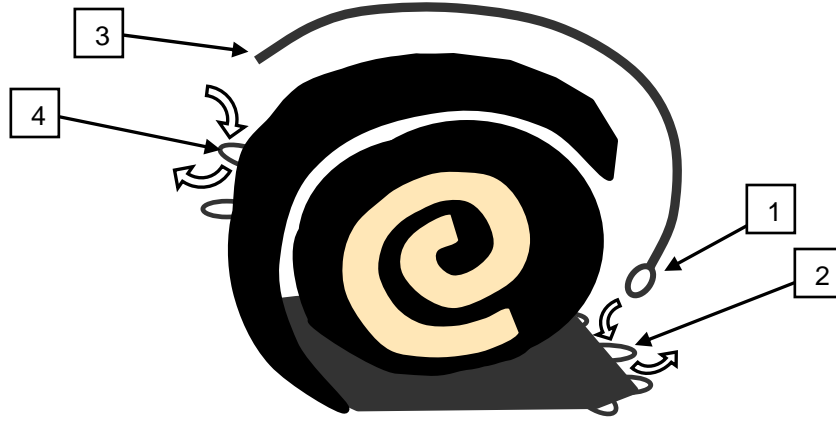


Figure 42. Attach Tie Lines to Transport Cover.

PREPARE TENT FOR STORAGE - CONTINUED

10. Pass free end of tie line (Figure 43, Item 1) through the loop at the opposite end of the tie line (Figure 43, Item 2). Repeat Steps 8 and 9 for the other two tie lines.

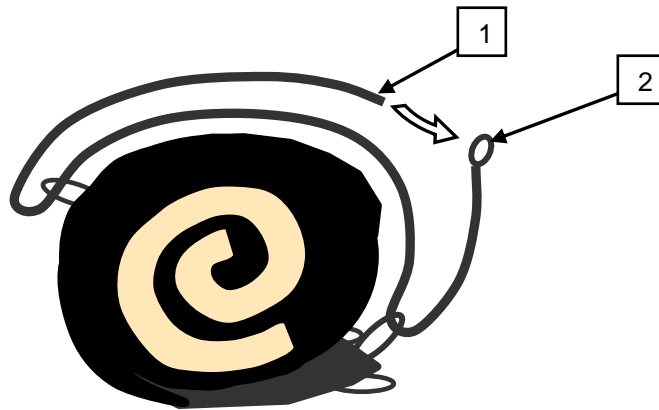


Figure 43. Route Tie Lines on Transport Cover.

PREPARE TENT FOR STORAGE - CONTINUED

11. Pull the free end of tie lines, cinching them against tent in transport cover (Figure 44). Continue tightening tie lines until tent is securely held in transport cover, and is as compressed as possible. Tie off tie lines (Figure 44).



Figure 44. Cinch Tie Lines on Transport Cover.

12. Secure transport cover side ropes by tying free end and looped end as tightly as possible (Figure 45).



Figure 45. Tie Off Transport Cover Side Ropes.

PREPARE TENT FOR STORAGE - CONTINUED**WARNING**

The TEMPER, Air-Supported shelter weighs approximately 600 lbs. Use sufficient personnel and lifting equipment when moving. Failure to do so could result in damage to equipment and death or serious injury to personnel.

13. Using suitable lifting equipment, lift the TEMPER, Air-Supported shelter in the transport cover, and place it into the shipping container.

END OF TASK

INVENTORY SYSTEM COMPONENTS

Collect, inspect and inventory all of the items listed for the TEMPER, Air-Supported configuration being deployed IAW WP 0063, prior to loading into shipping container for storage.

END OF TASK**PACK SHIPPING CONTAINER**

Pack the remaining TEMPER-Air-Supported components into the shipping container.

END OF TASK**END OF WORK PACKAGE**

OPERATOR AND FIELD MAINTENANCE
OPERATION UNDER USUAL CONDITIONS
SYSTEM CONFIGURATION INFORMATION

INITIAL SETUP:

References

WP 0005, WP 0006, WP 0007

SYSTEM CONFIGURATION INFORMATION

NOTE

TEMPER, Air-Supported shelter Types XXXII through XLVII are Force Provider only configurations.

This work package provides detailed information on the components included with each TEMPER, Air Supported Configuration (Table 1) to aid the soldier in identifying all components prior to beginning deployment. Also listed are the components required for deployment but not a part of the end item.

Table 1. TEMPER, Air-Supported System Configurations.

	<u>Description</u>	<u>NSN</u>	<u>Color</u>
Type XXXI	Shelter System, Billet/Admin	8340-01-558-4701 8340-01-559-3852	(Tan) (Green)
Type XXXII	Shelter System, CSS	8340-01-559-3853 8340-01-559-3851	(Tan) (Green)
Type XXXIII	Shelter System, EK1	8340-01-559-3854 8340-01-559-3856	(Tan) (Green)
Type XXXIV	Shelter System, MWR	8340-01-558-4699 8340-01-558-8698	(Tan) (Green)
Type XXXV	Shelter System, CBL/EK2	8340-01-559-3859 8340-01-559-3855	(Tan) (Green)
Type XXXVI	Shelter System, EK3	8340-01-558-8699 8340-01-559-3858	(Tan) (Green)
Type XXXVII	Shelter System, ETS-Kitchen	8340-01-558-4705 8340-01-558-8701	(Tan) (Green)
Type XXXVIII	Shelter System, ETS-Hygiene	8340-01-558-4703 8340-01-558-8703	(Tan) (Green)
Type XXXIX	Shelter System, ETS-CBL	8340-01-558-4704 8340-01-558-8702	(Tan) (Green)
Type XL	Shelter System, Cold Weather	8340-01-558-8705 8340-01-558-8704	(Tan) (Green)
Type XLI	Shelter System, Billet, Tan	8340-01-558-8707 8340-01-558-8706	(Tan) (Green)
Type XLII	Shelter System, ISO End 32	8340-01-558-8709 8340-01-558-8708	(Tan) (Green)
Type XLIII	Shelter System, Billet II	8340-01-558-8711 8340-01-558-8710	(Tan) (Green)
Type XLIV	Shelter System, ISO Side 32	8340-01-558-8712 8340-01-558-8713	(Tan) (Green)
Type XLV	Shelter System, Tricon 32	8340-01-558-8694 8340-01-558-8695	(Tan) (Green)
Type XLVI	Shelter System, ISO 21, Tan	8340-01-558-8693 8340-01-558-9818	(Tan) (Green)
Type XLVII	Shelter System, Billet, Small, Tan	8340-01-558-8696 8340-01-558-8697	(Tan) (Green)

TYPE XXXI SHELTER SYSTEM, BILLET/ADMIN CONFIGURATION

Force Provider Type XXXI Configuration (Figure 1). This configuration is outfitted with two vestibule end sections, and one vestibule.



Figure 1. Force Provider Type XXXI Billet/Admin Configuration.

Components Provided

The following components are provided with Force Provider Type XXXI Billet/Admin Configuration as detailed in Table 2 and Table 3 below.

Table 2. Force Provider Type XXXI Billet/Admin Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0409		SKIN, MAIN BODY, TYPE A, AS32, tan	1
00-010-496		LINER, THERMAL, TYPE A, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
A001-02-0389		END SECTION, VESTIBULE, TAN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	1
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

TYPE XXXI SHELTER SYSTEM, BILLET/ADMIN CONFIGURATION - CONTINUED

Table 3. Force Provider Type XXXI Billet/Admin Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-433		SKIN, MAIN BODY, TYPE A, AS32, GREEN	1
00-010-496		LINER, THERMAL, TYPE A, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
00-010-432		END SECTION, VESTIBULE, GREEN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	1
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

Components Not Provided But Required

The following components are required for the deployment and operation of the Force Provider Type XXXI Billet/Admin Configuration but are not part of the system as provided. These components are part of the Force Provider system.

Table 4. Force Provider Type XXXI Billet/Admin Configuration Components Not Provided But Required.

PART NO.	NSN	DESCRIPTION	QTY
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
L-70-17C125P17		AIR COMPRESSOR, PORTABLE DIESEL	1

Deployment And Takedown

The deployment and takedown of the Type XXXI Billet/Admin Configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XXXII SHELTER SYSTEM, CONTAINERIZED SHOWER SYSTEM (CSS) CONFIGURATION

Force Provider Type XXXII CSS Configuration (Figure 2). This configuration is outfitted with one vestibule end section, one ISO end section, and one vestibule.



Figure 2. Force Provider Type XXXII CSS Configuration.

Components Provided

The following components are provided with Force Provider Type XXXII CSS Configuration as detailed in Table 5 and Table 6 below.

Table 5. Force Provider Type XXXII CSS Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0409		SKIN, MAIN BODY, TYPE A, AS32, TAN	1
00-010-496		LINER, THERMAL, TYPE A, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
A001-02-0389		END SECTION, VESTIBULE, TAN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-016		END SECTION, ISO END, TAN	1
00-010-017		LINER, END SECTION, ISO END	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	1
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

TYPE XXXII SHELTER SYSTEM, CONTAINERIZED SHOWER SYSTEM (CSS) CONFIGURATION - CONTINUED

Table 6. Force Provider Type XXXII CSS Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-433		SKIN, MAIN BODY, TYPE A, AS32, GREEN	1
00-010-496		LINER, THERMAL, TYPE A, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
00-010-432		END SECTION, VESTIBULE, GREEN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-430		END SECTION, ISO END, GREEN	1
00-010-017		LINER, END SECTION, ISO END	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	1
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

Components Not Provided But Required

The following components are required for the deployment and operation of the Force Provider Type XXXII CSS Configuration but are not part of the system as provided. These components are part of the Force Provider system.

Table 7. Force Provider Type XXXII CSS Configuration Components Not Provided But Required.

PART NO.	NSN	DESCRIPTION	QTY
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
L-70-17C125P17		AIR COMPRESSOR, PORTABLE DIESEL	1

Deployment And Takedown

The deployment and takedown of the Type XXXII CSS Configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XXXIII SHELTER SYSTEM, EK1 CONFIGURATION

Force Provider Type XXXIII EK1 Configuration (Figure 3). This configuration is outfitted with two vestibule end sections, with a vestibule on both ends of the shelter.



Figure 3. Force Provider Type XXXIII EK1 Configuration.

Components Provided

The following components are provided with Force Provider Type XXXIII EK1 Configuration as detailed in Table 8 and Table 9 below.

Table 8. Force Provider Type XXXIII EK1 Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0409		SKIN, MAIN BODY, TYPE A, AS32, TAN	1
00-010-496		LINER, THERMAL, TYPE A, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
A001-02-0389		END SECTION, VESTIBULE, TAN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	6
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	2
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	2
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	2
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	24
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	3
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

TYPE XXXIII SHELTER SYSTEM, EK1 CONFIGURATION - CONTINUED

Table 9. Force Provider Type XXXIII EK1 Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-433		SKIN, MAIN BODY, TYPE A, AS32, GREEN	1
00-010-496		LINER, THERMAL, TYPE A, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
00-010-432		END SECTION, VESTIBULE, GREEN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	6
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	2
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	2
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	2
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	24
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	3
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

Components Not Provided But Required

The following components are required for the deployment and operation of the Force Provider Type XXXIII EK1 Configuration but are not part of the system as provided. These components are part of the Force Provider system.

Table 10. Force Provider Type XXXIII EK1 Configuration Components Not Provided But Required.

PART NO.	NSN	DESCRIPTION	QTY
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
L-70-17C125P17		AIR COMPRESSOR, PORTABLE DIESEL	1

Deployment And Takedown

The deployment and takedown of the Type XXXIII EK1 Configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XXXIV SHELTER SYSTEM, MWR CONFIGURATION

Force Provider Type XXXIV MWR Configuration (Figure 4). This configuration is outfitted with two vestibule end sections with a vestibule on one end and one side of the shelter.

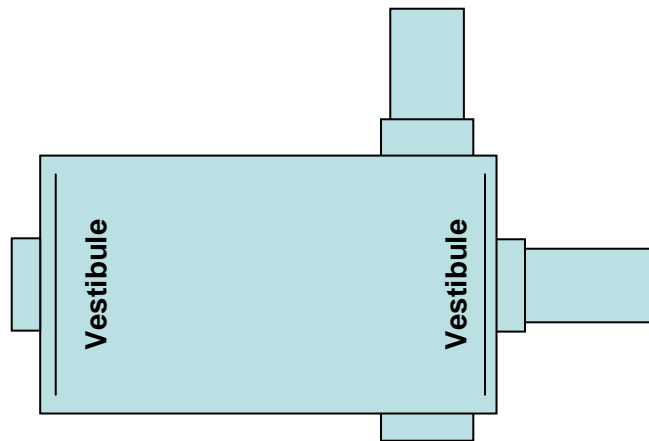


Figure 4. Force Provider Type XXXIV MWR Configuration.

Components Provided

The following components are provided with Force Provider Type XXXIV MWR Configuration as detailed in Table 11 and Table 12 below.

Table 11. Force Provider Type XXXIV MWR Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0410		SKIN, MAIN BODY, TYPE B, AS32, TAN	1
00-010-497		LINER, THERMAL, TYPE B, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
A001-02-0389		END SECTION, VESTIBULE, TAN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	6
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	2
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	2
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	2
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	24
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	3
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

TYPE XXXIV SHELTER SYSTEM, MWR CONFIGURATION - CONTINUED

Table 12. Force Provider Type XXXIV MWR Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-434		SKIN, MAIN BODY, TYPE B, AS32, GREEN	1
00-010-497		LINER, THERMAL, TYPE B, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
00-010-432		END SECTION, VESTIBULE, GREEN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	6
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	2
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	2
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	2
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	24
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	3
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

Components Not Provided But Required

The following components are required for the deployment and operation of the Force Provider Type XXXIV MWR Configuration but are not part of the system as provided. These components are part of the Force Provider system.

Table 13. Force Provider Type XXXIV MWR Configuration Components Not Provided But Required.

PART NO.	NSN	DESCRIPTION	QTY
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
L-70-17C125P17		AIR COMPRESSOR, PORTABLE DIESEL	1

Deployment And Takedown

The deployment and takedown of the Type XXXIV MWR configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XXXV SHELTER SYSTEM, CBL/EK2 CONFIGURATION

Force Provider Type XXXV CBL/EK2 Configuration (Figure 5). This configuration is outfitted with one vestibule end section, one ISO end section and three vestibules.

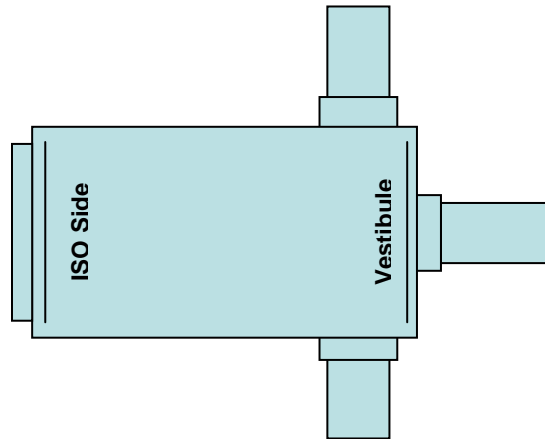


Figure 5. Force Provider Type XXXV CBL/EK2 Configuration.

Components Provided

The following components are provided with Force Provider Type XXXV CBL/EK2 Configuration as detailed in Table 14 and Table 15 below.

Table 14. Force Provider Type XXXV CBL/EK2 Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0410		SKIN, MAIN BODY, TYPE B, AS32, TAN	1
00-010-497		LINER, THERMAL, TYPE B, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
A001-02-0389		END SECTION, VESTIBULE, TAN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-014		END SECTION, ISO SIDE, TAN	1
00-010-015		LINER, END SECTION, ISO SIDE	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	9
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	3
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	3
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	3
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	32
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	4
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

TYPE XXXV SHELTER SYSTEM, CBL/EK2 CONFIGURATION - CONTINUED

Table 15. Force Provider Type XXXV CBL/EK2 Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-434		SKIN, MAIN BODY, TYPE B, AS32, GREEN	1
00-010-497		LINER, THERMAL, TYPE B, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
00-010-432		END SECTION, VESTIBULE, GREEN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-429		END SECTION, ISO SIDE, GREEN	1
00-010-015		LINER, END SECTION, ISO SIDE	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	9
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	3
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	3
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	3
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	32
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	4
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

Components Not Provided But Required

The following components are required for the deployment and operation of the Force Provider Type XXXV CBL/EK2 Configuration but are not part of the system as provided. These components are part of the Force Provider system.

Table 16. Force Provider Type XXXV CBL/EK2 Configuration Components Not Provided But Required.

PART NO.	NSN	DESCRIPTION	QTY
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
L-70-17C125P17		AIR COMPRESSOR, PORTABLE DIESEL	1

Deployment And Takedown

The deployment and takedown of the Type XXXV CBL/EK2 configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XXXVI SHELTER SYSTEM, EK3 CONFIGURATION

Force Provider Type XXXVI EK3 Configuration (Figure 6). This configuration is outfitted with two vestibule end sections.

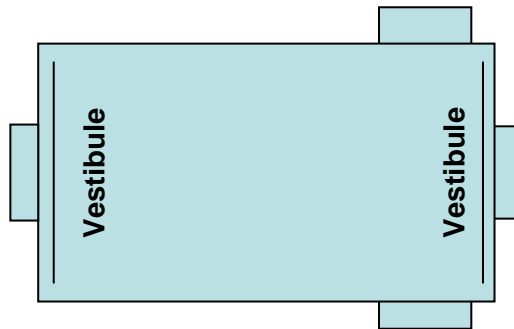


Figure 6. Force Provider Type XXXVI EK3 Configuration.

Components Provided

The following components are provided with Force Provider Type XXXVI EK3 Configuration as detailed in Table 17 and Table 18 below.

Table 17. Force Provider Type XXXVI EK3 Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0410		SKIN, MAIN BODY, TYPE B, AS32, TAN	1
00-010-497		LINER, THERMAL, TYPE B, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
A001-02-0389		END SECTION, VESTIBULE, TAN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	8
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

TYPE XXXVI SHELTER SYSTEM, EK3 CONFIGURATION - CONTINUED

Table 18. Force Provider Type XXXVI EK3 Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-434		SKIN, MAIN BODY, TYPE B, AS32, GREEN	1
00-010-497		LINER, THERMAL, TYPE B, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
00-010-432		END SECTION, VESTIBULE, GREEN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	8
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

Components Not Provided But Required

The following components are required for the deployment and operation of the Force Provider Type XXXVI EK3 Configuration but are not part of the system as provided. These components are part of the Force Provider system.

Table 19. Force Provider Type XXXVI EK3 Configuration Components Not Provided But Required.

PART NO.	NSN	DESCRIPTION	QTY
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
L-70-17C125P17		AIR COMPRESSOR, PORTABLE DIESEL	1

Deployment And Takedown

The deployment and takedown of the Type XXXVI EK3 configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XXXVII SHELTER SYSTEM, ETS-KITCHEN CONFIGURATION

Force Provider Type XXXVII ETS-Kitchen Configuration (Figure 7). This configuration is outfitted with one vestibule end section, one TRICON end section, and three vestibules.

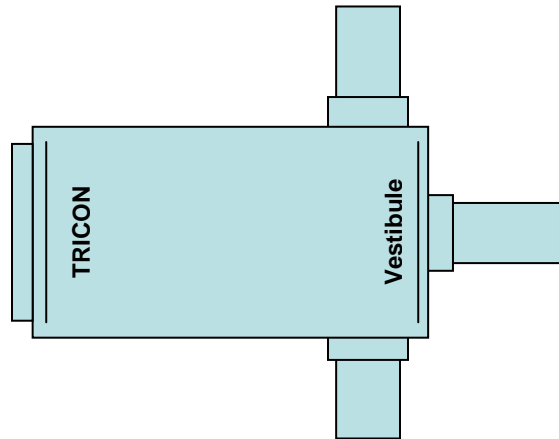


Figure 7. Force Provider Type XXXVII ETS-Kitchen Configuration.

Components Provided

The following components are provided with Force Provider Type XXXVII ETS-Kitchen Configuration as detailed in Table 20 and Table 21 below.

Table 20. Force Provider Type XXXVII ETS-Kitchen Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0410		SKIN, MAIN BODY, TYPE B, AS32, TAN	1
00-010-497		LINER, THERMAL, TYPE B, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
A001-02-0389		END SECTION, VESTIBULE, TAN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-018		END SECTION, TRICON, TAN	1
00-010-019		LINER, END SECTION, TRICON	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSY, BOTTOM, EXT BRACING, AS	2
A001-02-0386		RATCHET ASSY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	9
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	3
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	3
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	3
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	32
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	4
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

TYPE XXXVII SHELTER SYSTEM, ETS-KITCHEN CONFIGURATION - CONTINUED

Table 21. Force Provider Type XXXVII ETS-Kitchen Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-434		SKIN, MAIN BODY, TYPE B, AS32, GREEN	1
00-010-497		LINER, THERMAL, TYPE B, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
00-010-432		END SECTION, VESTIBULE, GREEN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-431		END SECTION, TRICON, GREEN	1
00-010-019		LINER, END SECTION, TRICON	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	9
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	3
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	3
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	3
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	32
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	4
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

Components Not Provided But Required

The following components are required for the deployment and operation of the Force Provider Type XXXVII ETS-Kitchen Configuration but are not part of the system as provided. These components are part of the Force Provider system.

Table 22. Force Provider Type XXXVII ETS-Kitchen Configuration Components Not Provided But Required.

PART NO.	NSN	DESCRIPTION	QTY
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
L-70-17C125P17		AIR COMPRESSOR, PORTABLE DIESEL	1

Deployment And Takedown

The deployment and takedown of the Type XXXVII ETS-Kitchen configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XXXVIII SHELTER SYSTEM, ETS-HYGIENE CONFIGURATION

Force Provider Type XXXVIII ETS-Hygiene Configuration (Figure 8). This configuration is outfitted with two vestibule end sections, two TRICON bootwalls, and two vestibules.

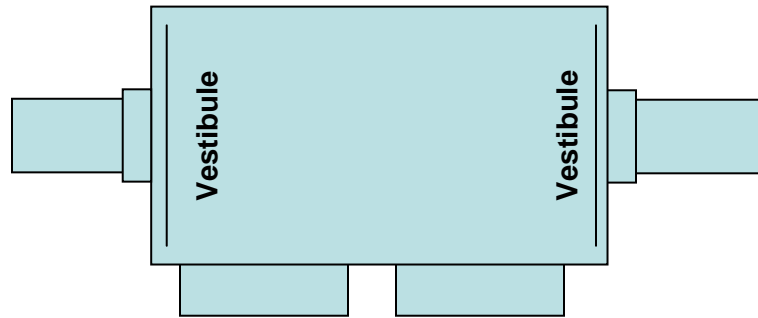


Figure 8. Force Provider Type XXXVIII ETS-Hygiene Configuration.

Components Provided

The following components are provided with Force Provider Type XXXVIII ETS-Hygiene Configuration as detailed in Table 23 and Table 24 below.

Table 23. Force Provider Type XXXVIII ETS-Hygiene Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0411		SKIN, MAIN BODY, TYPE C, AS21, TAN	1
00-010-498		LINER, THERMAL, TYPE C, AS21	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	3
A001-02-0043		INFLATION SYSTEM (SINGLE MANIFOLD), AS21	1
A001-02-0389		END SECTION, VESTIBULE, TAN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	6
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	2
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	2
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	2
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	24
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	3
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0353		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

TYPE XXXVIII SHELTER SYSTEM, ETS-HYGIENE CONFIGURATION - CONTINUED

Table 24. Force Provider Type XXXVIII ETS-Hygiene Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-435		SKIN, MAIN BODY, TYPE C, AS21, GREEN	1
00-010-498		LINER, THERMAL, TYPE C, AS21	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	3
A001-02-0043		INFLATION SYSTEM (SINGLE MANIFOLD), AS21	1
00-010-432		END SECTION, VESTIBULE, GREEN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	6
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	2
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	2
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	2
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	24
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	3
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0353		STRAP, LIGHT, MEGA, AS21	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

Components Not Provided But Required

The following components are required for the deployment and operation of the Force Provider Type XXXVIII ETS-Hygiene Configuration but are not part of the system as provided. These components are part of the Force Provider system.

Table 25. Force Provider Type XXXVIII ETS-Hygiene Configuration Components Not Provided But Required.

PART NO.	NSN	DESCRIPTION	QTY
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
L-70-17C125P17		AIR COMPRESSOR, PORTABLE DIESEL	1

Deployment And Takedown

The deployment and takedown of the Type XXXVIII ETS-Hygiene configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XXXIX SHELTER SYSTEM, ETS-CBL CONFIGURATION

Force Provider Type XXXIX ETS-CBL Configuration (Figure 9). This configuration is outfitted with one vestibule end section, one ISO end section, and three vestibules.

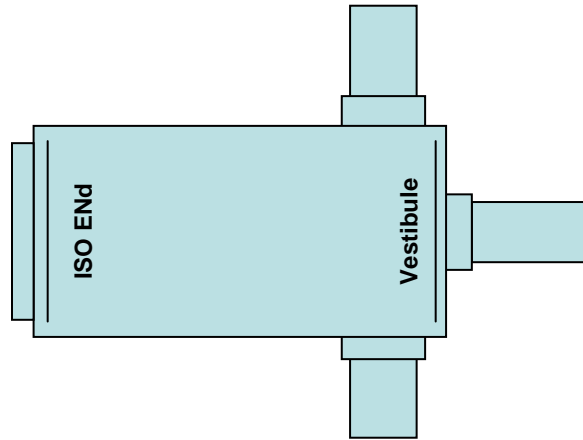


Figure 9. Force Provider Type XXXIX ETS-CBL Configuration.

Components Provided

The following components are provided with Force Provider Type XXXIX ETS-CBL Configuration as detailed in Table 26 and Table 27 below.

Table 26. Force Provider Type XXXIX ETS-CBL Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0412		SKIN, MAIN BODY, TYPE D, AS21, TAN	1
00-010-499		LINER, THERMAL, TYPE D, AS21	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	3
A001-02-0043		INFLATION SYSTEM (SINGLE MANIFOLD), AS21	1
A001-02-0389		END SECTION, VESTIBULE, TAN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-014		END SECTION, ISO SIDE, TAN	1
00-010-015		LINER, END SECTION, ISO SIDE	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSY, BOTTOM, EXTL BRACING, AS	2
A001-02-0386		RATCHET ASSY, TOP, EXTL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	9
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	3
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	3
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	3
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	32
00-010-281		PIN, TENT, 1" X 36"	4
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	4
A001-05-0353		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

TYPE XXXIX SHELTER SYSTEM, ETS-CBL CONFIGURATION - CONTINUED

Table 27. Force Provider Type XXXIX ETS-CBL Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-436		SKIN, MAIN BODY, TYPE D, AS21, GREEN	1
00-010-499		LINER, THERMAL, TYPE D, AS21	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	3
A001-02-0043		INFLATION SYSTEM (SINGLE MANIFOLD), AS21	1
00-010-432		END SECTION, VESTIBULE, GREEN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-429		END SECTION, ISO SIDE, GREEN	1
00-010-015		LINER, END SECTION, ISO SIDE	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	9
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	3
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	3
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	3
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	32
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	4
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0353		STRAP, LIGHT, MEGA, AS21	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

Components Not Provided But Required

The following components are required for the deployment and operation of the Force Provider Type XXXIX ETS-CBL Configuration but are not part of the system as provided. These components are part of the Force Provider system.

Table 28. Force Provider Type XXXIX ETS-CBL Configuration Components Not Provided But Required.

PART NO.	NSN	DESCRIPTION	QTY
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
L-70-17C125P17		AIR COMPRESSOR, PORTABLE DIESEL	1

Deployment And Takedown

The deployment and takedown of the Type XXXIX ETS-CBL configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XL SHELTER SYSTEM, COLD WEATHER CONFIGURATION

Force Provider Type XL Cold Weather Configuration (Figure 10). This configuration is outfitted with one vestibule end section, and no end section on the opposite end, and a vestibule.

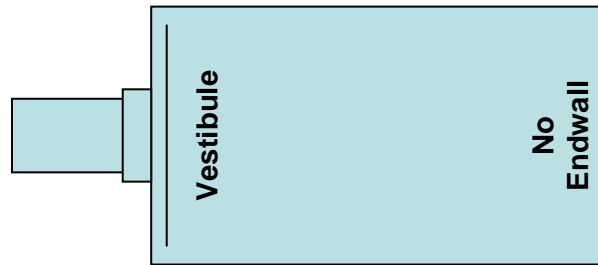


Figure 10. Force Provider Type XL Cold Weather Configuration.

Components Provided

The following components are provided with Force Provider Type XL Cold Weather Configuration as detailed in Table 29 and Table 30 below.

Table 29. Force Provider Type XL Cold Weather Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0409		SKIN, MAIN BODY, TYPE A, AS32, TAN	1
00-010-496		LINER, THERMAL, TYPE D, AS21	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
A001-02-0389		END SECTION, VESTIBULE, TAN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	1
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

TYPE XL SHELTER SYSTEM, COLD WEATHER CONFIGURATION - CONTINUED

Table 30. Force Provider Type XL Cold Weather Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-433		SKIN, MAIN BODY, TYPE A, AS32, GREEN	1
00-010-496		LINER, THERMAL, TYPE A, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
00-010-432		END SECTION, VESTIBULE, GREEN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	1
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1

Components Not Provided But Required

The following components are required for the deployment and operation of the Force Provider Type XL Cold Weather Configuration but are not part of the system as provided. These components are part of the Force Provider system.

Table 31. Force Provider Type XL Cold Weather Configuration Components Not Provided But Required.

PART NO.	NSN	DESCRIPTION	QTY
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
L-70-17C125P17		AIR COMPRESSOR, PORTABLE DIESEL	1

Deployment And Takedown

The deployment and takedown of the Type XL Cold Weather configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XLI SHELTER SYSTEM, BILLET CONFIGURATION

Type XLI Billet Configuration (Figure 11). This configuration is outfitted with two vestibule end sections, and one vestibule.



Figure 11. Type XLI Billet Configuration.

Components Provided

The following components are provided with Type XLI Billet Configuration as detailed in Table 32 and Table 33 below.

Table 32. Type XLI Billet Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0409		SKIN, MAIN BODY, TYPE A, AS32, TAN	1
00-010-496		LINER, THERMAL, TYPE D, AS21	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
A001-02-0389		END SECTION, VESTIBULE, TAN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	1
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0058		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT	1
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1
A001-02-0271		REPAIR KIT, COVER, AS, TAN	1

TYPE XLI SHELTER SYSTEM, BILLET CONFIGURATION - CONTINUED

Table 33. Type XLI Billet Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-433		SKIN, MAIN BODY, TYPE A, AS32, GREEN	1
00-010-496		LINER, THERMAL, TYPE A, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
00-010-432		END SECTION, VESTIBULE, GREEN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	1
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0058		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT	1
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1
00-010-392		1 INCH STAKE PULLER BLOCK	1
00-010-401		REPAIR KIT, COVER, AS, GREEN	1

Deployment And Takedown

The deployment and takedown of the Type XLI Billet Configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XLII SHELTER SYSTEM, ISO END 32 CONFIGURATION

Type XLII ISO End 32 Configuration (Figure 12). This configuration is outfitted with one vestibule end section, one ISO end section, and one vestibule.



Figure 12. Type XLII ISO End 32 Configuration.

Components Provided

The following components are provided with Type XLII ISO End 32 Configuration as detailed in Table 34 and Table 35 below.

Table 34. Type XLII ISO End 32 Configuration Included Components.

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0409		SKIN, MAIN BODY, TYPE A, AS32, TAN	1
00-010-496		LINER, THERMAL, TYPE A, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
A001-02-0389		END SECTION, VESTIBULE, TAN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-016		END SECTION, ISO END, TAN	1
00-010-017		LINER, END SECTION, ISO END	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	1
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0058		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT	1
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1
00-010-392		1 INCH STAKE PULLER BLOCK	1
A001-02-0271		REPAIR KIT, COVER, AS, TAN	1

TYPE XLII SHELTER SYSTEM, ISO END 32 CONFIGURATION - CONTINUED

Table 35. Type XLII ISO End 32 Configuration Included Components.

PART NO.	NSN	DESCRIPTION	QTY
00-010-433		SKIN, MAIN BODY, TYPE A, AS32, GREEN	1
00-010-496		LINER, THERMAL, TYPE A, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
00-010-432		END SECTION, VESTIBULE, GREEN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-430		END SECTION, ISO END, GREEN	1
00-010-017		LINER, END SECTION, ISO END	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	1
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0058		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT	1
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1
00-010-392		1 INCH STAKE PULLER BLOCK	1
00-010-401		REPAIR KIT, COVER, AS, GREEN	1

Deployment And Takedown

The deployment and takedown of the Type XLII ISO End 32 Configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XLIII SHELTER SYSTEM, BILLET II CONFIGURATION

Type XLIII Billet II Configuration (Figure 13). This configuration is outfitted with two vestibule end sections, and a vestibule.

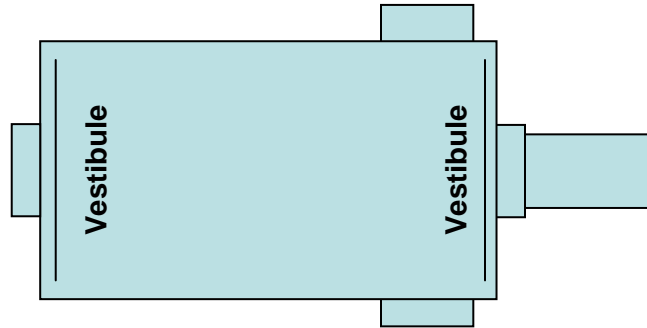


Figure 13. Type XLIII Billet II Configuration.

Components Provided

The following components are provided with Type XLIII Billet II Configuration as detailed in Table 36 and Table 37 below.

Table 36. Type XLIII Billet II Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0410		SKIN, MAIN BODY, TYPE B, AS32, TAN	1
00-010-497		LINER, THERMAL, TYPE B, AS21	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
A001-02-0389		END SECTION, VESTIBULE, TAN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	1
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0058		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT	1
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1
00-010-392		1 INCH STAKE PULLER BLOCK	1
A001-02-0271		REPAIR KIT, COVER, AS, TAN	1

TYPE XLIII SHELTER SYSTEM, BILLET II CONFIGURATION - CONTINUED

Table 37. Type XLIII Billet II Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-434		SKIN, MAIN BODY, TYPE B, AS32, GREEN	1
00-010-497		LINER, THERMAL, TYPE B, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
00-010-432		END SECTION, VESTIBULE, GREEN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	1
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0058		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT	1
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1
00-010-392		1 INCH STAKE PULLER BLOCK	1
00-010-401		REPAIR KIT, COVER, AS, GREEN	1

Deployment And Takedown

The deployment and takedown of the Type XLIII Billet II configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XLIV SHELTER SYSTEM, ISO SIDE 32 CONFIGURATION

Type XLIV ISO Side 32 Configuration (Figure 14). This configuration is outfitted with one vestibule end section, two vestibule side sections and one ISO side section.

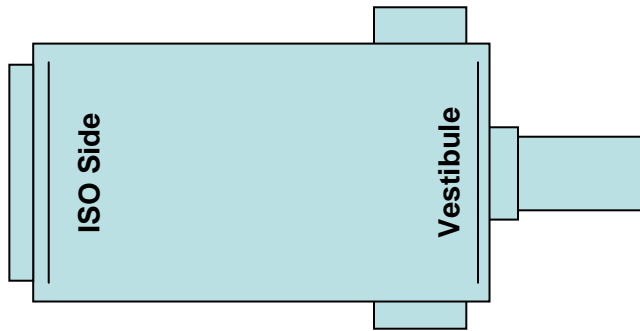


Figure 14. Type XLIV ISO Side 32 Configuration.

Components Provided

The following components are provided with Type XLIV ISO Side 32 Configuration as detailed in Table 38 and Table 39 below.

Table 38. Type XLIV ISO Side 32 Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0410		SKIN, MAIN BODY, TYPE B, AS32, TAN	1
00-010-497		LINER, THERMAL, TYPE B, AS21	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
A001-02-0389		END SECTION, VESTIBULE, TAN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-014		END SECTION, ISO SIDE, TAN	1
00-010-015		LINER, END SECTION, ISO SIDE	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	1
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2

TYPE XLIV SHELTER SYSTEM, ISO SIDE 32 CONFIGURATION - CONTINUED

Table 38. Force Provider Type XLIV ISO Side 32 Configuration Included Components (Tan)
(Continued).

PART NO.	NSN	DESCRIPTION	QTY
A001-05-0058		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT	1
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1
00-010-392		1 INCH STAKE PULLER BLOCK	1
A001-02-0271		REPAIR KIT, COVER, AS, TAN	1

Table 39. Force Provider Type XLIV ISO Side 32 Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-434		SKIN, MAIN BODY, TYPE B, AS32, GREEN	1
00-010-497		LINER, THERMAL, TYPE B, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
00-010-432		END SECTION, VESTIBULE, GREEN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-429		END SECTION, ISO SIDE, GREEN	1
00-010-015		LINER, END SECTION, ISO SIDE	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	1
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0058		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT	1
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1
00-010-392		1 INCH STAKE PULLER BLOCK	1
00-010-401		REPAIR KIT, COVER, AS, GREEN	1

Deployment And Takedown

The deployment and takedown of the Type XLIV ISO Side 32 configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XLV SHELTER SYSTEM, TRICON 32 CONFIGURATION

Type XLV Tricon 32 Configuration (Figure 15). This configuration is outfitted with one vestibule end section, one Tricon end section, and one vestibule.

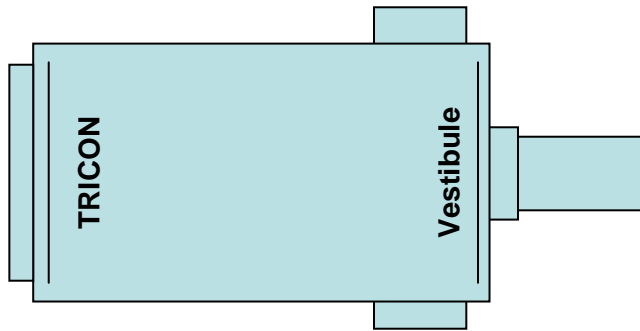


Figure 15. Type XLV Tricon 32 Configuration.

Components Provided

The following components are provided with Type XLV Tricon 32 Configuration as detailed in Table 40 and Table 41 below.

Table 40. Type XLV Tricon 32 Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0410		SKIN, MAIN BODY, TYPE B, AS32, TAN	1
00-010-497		LINER, THERMAL, TYPE B, AS21	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
A001-02-0389		END SECTION, VESTIBULE, TAN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-018		END SECTION, TRICON, TAN	1
00-010-019		LINER, END SECTION, TRICON	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	1
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2

TYPE XLV SHELTER SYSTEM, TRICON 32 CONFIGURATION - CONTINUED

Table 40. Type XLV Tricon 32 Configuration Included Components (Tan) (Continued).

PART NO.	NSN	DESCRIPTION	QTY
A001-05-0058		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT	1
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1
00-010-392		1 INCH STAKE PULLER BLOCK	1
A001-02-0271		REPAIR KIT, COVER, AS, TAN	1

Table 41. Type XLV Tricon 32 Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-434		SKIN, MAIN BODY, TYPE B, AS32, GREEN	1
00-010-497		LINER, THERMAL, TYPE B, AS32	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	4
A001-02-0268		INFLATION SYSTEM (SINGLE MANIFOLD), AS32	1
00-010-432		END SECTION, VESTIBULE, GREEN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-431		END SECTION, TRICON, GREEN	1
00-010-019		LINER, END SECTION, TRICON	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	1
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0290		STRAP, LIGHT, MEGA, AS32	2
A001-05-0058		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT	1
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1
00-010-392		1 INCH STAKE PULLER BLOCK	1
00-010-401		REPAIR KIT, COVER, AS, GREEN	1

Deployment And Takedown

The deployment and takedown of the Type XLV Tricon 32 configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XLVI SHELTER SYSTEM, ISO 21 CONFIGURATION

Type XLVI ISO 21 Configuration (Figure 16). This configuration is outfitted with one vestibule end section, one ISO Side end section, and one vestibule.

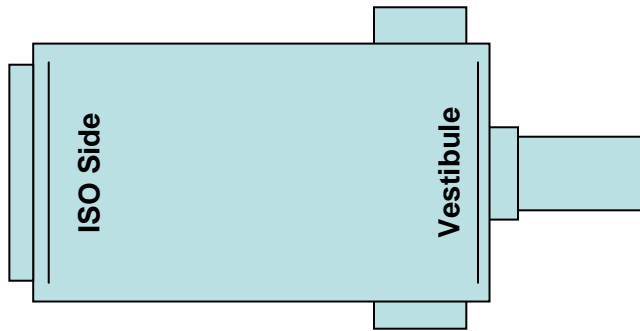


Figure 16. Type XLVI ISO 21 Configuration.

Components Provided

The following components are provided with Type XLVI ISO 21 Configuration as detailed in Table 42 and Table 43 below.

Table 42. Type XLVI ISO 21 Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
A001-02-0412		SKIN, MAIN BODY, TYPE D, AS21, TAN	1
00-010-499		LINER, THERMAL, TYPE D, AS21	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	3
A001-02-0043		INFLATION SYSTEM (SINGLE MANIFOLD), AS21	1
A001-02-0389		END SECTION, VESTIBULE, TAN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-016		END SECTION, ISO END, TAN	1
00-010-017		LINER, END SECTION, ISO END	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	1
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0353		STRAP, LIGHT, MEGA, AS21	2

TYPE XLVI SHELTER SYSTEM, ISO 21 CONFIGURATION - CONTINUED

Table 42. Type XLVI ISO 21 Configuration Included Components (Tan) (Continued).

PART NO.	NSN	DESCRIPTION	QTY
A001-05-0058		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT	1
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1
00-010-392		1 INCH STAKE PULLER BLOCK	1
A001-02-0271		REPAIR KIT, COVER, AS, TAN	1

Table 43. Type XLVI ISO 21 Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-436		SKIN, MAIN BODY, TYPE D, AS21, GREEN	1
00-010-499		LINER, THERMAL, TYPE D, AS21	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	3
A001-02-0043		INFLATION SYSTEM (SINGLE MANIFOLD), AS21	1
00-010-432		END SECTION, VESTIBULE, GREEN	1
00-010-013		LINER, END SECTION, VESTIBULE	1
00-010-430		END SECTION, ISO END, GREEN	1
00-010-017		LINER, END SECTION, ISO END	1
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	1
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0353		STRAP, LIGHT, MEGA, AS21	2
A001-05-0058		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT	1
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1
00-010-392		1 INCH STAKE PULLER BLOCK	1
00-010-401		REPAIR KIT, COVER, AS, GREEN	1

Deployment And Takedown

The deployment and takedown of the Type XLVI ISO 21 configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

TYPE XLVII SHELTER SYSTEM, BILLET, SMALL CONFIGURATION

Type XLVII Billet, Small Configuration (Figure 17). This configuration is outfitted with two vestibule end sections.



Figure 17. Type XLVII Billet, Small Configuration.

Components Provided

The following components are provided with Type XLVII Billet, Small Configuration as detailed in Table 44 and Table 45 below.

Table 44. Type XLVII Billet, Small Configuration Included Components (Tan).

PART NO.	NSN	DESCRIPTION	QTY
00-010-488		SKIN, MAIN BODY, TYPE E, AS21, TAN	1
00-010-489		LINER, THERMAL, TYPE E, AS22	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	3
A001-02-0043		INFLATION SYSTEM (SINGLE MANIFOLD), AS21	1
A001-02-0389		END SECTION, VESTIBULE, TAN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-057	8340-01-198-7621	VESTIBULE WITH DOOR, TAN	1
00-010-058	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0353		STRAP, LIGHT, MEGA, AS21	2
A001-05-0058		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT	1

TYPE XLVII SHELTER SYSTEM, BILLET, SMALL CONFIGURATION - CONTINUED

Table 44. Type XLVII Billet, Small Configuration Included Components (Tan) (Continued).

PART NO.	NSN	DESCRIPTION	QTY
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1
00-010-392		1 INCH STAKE PULLER BLOCK	1
A001-02-0271		REPAIR KIT, COVER, AS, TAN	1

Table 45. Type XLVII Billet, Small Configuration Included Components (Green).

PART NO.	NSN	DESCRIPTION	QTY
00-010-487		SKIN, MAIN BODY, TYPE E, AS21, GREEN	1
00-010-489		LINER, THERMAL, TYPE E, AS21	1
A001-02-0028		AIRBEAM ASSEMBLY, 10-Inch, AS	3
A001-02-0043		INFLATION SYSTEM (SINGLE MANIFOLD), AS21	1
00-010-432		END SECTION, VESTIBULE, GREEN	2
00-010-013		LINER, END SECTION, VESTIBULE	2
A001-02-0384		FIXED ASSEMBLY, EXTERNAL BRACING, AS	1
A001-02-0385		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
A001-02-0386		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
00-010-123		STRAP, SNOW	1
A001-05-0273		CARGO NET, AS	1
00-010-056	8340-01-186-3010	FRAME ASSEMBLY, VESTIBULE	3
00-010-439	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN	1
00-010-440	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN	1
00-010-059	8340-01-186-3029	CONTAINER, TENT VESTIBULE	1
A001-05-0292	8340-01-985-7461	PIN, TENT, 5/8" X 18"	16
00-010-281		PIN, TENT, 1" X 36"	4
00-010-062	8340-01-186-3030	CONTAINER, TENT PIN	2
00-010-063	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V	1
00-010-064	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED)	1
00-010-065	6110-01-251-8157	CONVENIENCE OUTLET	1
31-MC-502S	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET)	2
A001-05-0353		STRAP, LIGHT, MEGA, AS21	2
A001-05-0058		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT	1
A001-05-0276		VACUUM, PURGE, AIRBEAM, AS	1
00-010-392		1 INCH STAKE PULLER BLOCK	1
00-010-401		REPAIR KIT, COVER, AS, GREEN	1

Deployment And Takedown

The deployment and takedown of the Type XLVII Billet, Small configuration is performed in accordance with WP 0005, 0006, and 0007 respectively. There are no unusual considerations.

END OF WORK PACKAGE

CHAPTER 3
TROUBLESHOOTING MASTER INDEX
FOR
TEMPER, AIR-SUPPORTED

OPERATOR AND FIELD MAINTENANCE

TROUBLESHOOTING INDEX

GENERAL

This chapter provides operator and service level troubleshooting information and procedures. Refer to appropriate technical manuals for associated equipment maintenance instructions and item-specific troubleshooting instructions. (See WP 0060 for References) Troubleshooting instructions covered in this section are unique to the TEMPER Air-Supported.

TROUBLESHOOTING INDEX

The troubleshooting index lists symptoms that may occur during TEMPER Air-Supported inspection and setup. Find the symptom and go to the indicated troubleshooting work package page number that follows. The index cannot list all symptoms that may occur, nor all actions required to correct the fault. If the existing symptom is not listed, notify the original equipment manufacturer.

Table 1. Troubleshooting Index.

Symptom	Maintenance Level / Work Package - Page No.	
	Operator Maintenance	Service Maintenance
TEMPER, AIR-SUPPORTED SHELTER:		
1. TEMPER, Air-Supported shelter leaking.	WP 0010-1	N/A
2. TEMPER, Air-Supported shelter will not stay taut.	WP 0010-1	N/A
3. TEMPER, Air-Supported shelter components damaged.	WP 0010-1	N/A
4. TEMPER, Air-Supported shelter fabric section damaged.	WP 0010-2	N/A
INFLATION SYSTEM:		
5. TEMPER, Air-Supported shelter does not inflate.	WP 0010-2	WP 0011-1
6. TEMPER, Air-Supported shelter deflates / won't remain inflated.	WP 0010-3	WP 0011-2
7. Air compressor not supplying enough air to inflate shelter.	WP 0010-4	N/A
AIRBEAM ASSEMBLY:		
8. Airbeam assembly leaks, won't maintain pressure.	WP 0010-4	WP 0011-2
AIR COMPRESSOR:		
9. Air compressor hose assembly malfunction.	WP 0010-4	N/A
10. Excessive tank pressure, safety valve opens ('pops' up).	WP 0010-4	WP 0011-3
11. Air leaks at tube fittings.	WP 0010-5	WP 0011-3
12. Air leaks at or inside check valve.	WP 0010-5	WP 0011-3
13. Compressor is not supplying enough air to inflate shelter.	WP 0010-5	WP 0011-4
14. Air leaks at pressure release valve.	WP 0010-6	WP 0011-4
15. Air leaks between head and valve plate.	WP 0010-6	WP 0011-4
16. Knocking noise.	WP 0010-6	WP 0011-5
17. Air leaks in air tank or at air tank welds.	WP 0010-6	WP 0011-5
18. Air compressor - All other symptoms.	WP 0010-7	WP 0011-5

TROUBLESHOOTING INDEX - CONTINUED

Table 1. Troubleshooting Index - Continued.

Symptom	Maintenance Level / Work Package - Page No.	
	Operator	Service
AIRBEAM PURGE VACUUM		
19. Airbeam purge vacuum hose assembly malfunction.	WP 0010-7	N/A
20. Airbeam purge vacuum - All other malfunctions.	WP 0010-7	WP 0011-5
POWER DISTRIBUTION SYSTEM:		
21. No power at the power distribution system.	WP 0010-7	WP 0011-6
22. No power at power distribution box GFCI receptacle.	WP 0010-8	WP 0011-7
23. No power at convenience outlet.	WP 0010-8	WP 0011-7
LIGHTING SYSTEM:		
24. No power at lights.	WP 0010-9	WP 0011-9
25. No light at lighting fixture(s)	WP 0010-9	N/A

END OF WORK PACKAGE

CHAPTER 4
TROUBLESHOOTING PROCEDURES
FOR
TEMPER AIR-SUPPORTED

OPERATOR MAINTENANCE

OPERATOR TROUBLESHOOTING PROCEDURES

INITIAL SETUP:

Materials/Parts	Personnel Required
Detergent, General Purpose (WP 0064, Item 7)	Non-MOS Specific (1)
References	Equipment Condition
WP 0005, WP 0024, WP 0025, WP 0026 WP 0030, WP 0036, WP 0037	Shelter deployed

OPERATOR TROUBLESHOOTING PROCEDURES

TEMPER, AIR-SUPPORTED SHELTER

SYMPTOM

TEMPER, Air-Supported shelter leaking.

MALFUNCTION

Damaged fabric section or improperly secured wind flaps, doors or window flaps.

CORRECTIVE ACTION

STEP 1. Check for any improperly secured wind flaps, doors or window flaps. Secure wind flaps, doors and window panels IAW WP 0005.

STEP 2. Check fabric sections for rips, tears or damage. If rips or tears in fabric are discovered, contact field maintenance for corrective action.

SYMPTOM

TEMPER, Air-Supported shelter will not stay taut.

MALFUNCTION

External bracing, side support ropes or guy lines misaligned or loose.

CORRECTIVE ACTION

STEP 1. Check and/or tighten external bracing, side support ropes, and any loose guy lines IAW WP 0005.

STEP 2. If problem persists, contact Field Maintenance for corrective action.

SYMPTOM

TEMPER, Air-Supported shelter component(s) damaged.

MALFUNCTION

TEMPER, Air-Supported shelter component(s) damaged.

CORRECTIVE ACTION

STEP 1. Check airbeams, outer main skin attachment points, liner, liner attachment points, end panels, vestibule, power distribution and lighting equipment for damage IAW WP 0005.

STEP 2. If TEMPER, Air-Supported shelter component(s) are damaged, contact Field Maintenance for corrective action.

TEMPER, AIR-SUPPORTED SHELTER - CONTINUED**SYMPTOM**

TEMPER, Air-Supported shelter fabric section damaged.

MALFUNCTION

TEMPER, Air-Supported shelter fabric section damaged.

CORRECTIVE ACTION

STEP 1. Check outer main skin exterior, interior, floor, liner, end sections and vestibule for damage IAW WP 0005.

STEP 2. If TEMPER, Air-Supported shelter fabric section(s) are damaged, contact Field Maintenance for corrective action.

INFLATION SYSTEM**SYMPTOM**

TEMPER, Air-Supported shelter does not inflate.

MALFUNCTION

Kinked inflation system air hose.

CORRECTIVE ACTION

STEP 1. Check all inflation system air hoses for kinks.

STEP 2. Check air compressor air hose assembly for kinks.

MALFUNCTION

Airbeam assembly leaks air.

CORRECTIVE ACTION

STEP 1. Check all airbeams for leaks. Isolate leaking airbeam by closing both airbeam inflation ball valves. Ensure that both airbeam ball valves are closed. If airbeam ball valve continues to leak while closed or valve is inoperable and cannot be closed, contact Field Maintenance for corrective action.

STEP 2. Check airbeam inflation hoses for leaks. Reconnect airbeam inflation hoses to airbeams and inflation manifold. If airbeam inflation hoses continue to leak after reconnection or QD connection fittings are inoperable and cannot be connected, contact Field Maintenance for corrective action.

MALFUNCTION

Inflation manifold assembly leaks air.

CORRECTIVE ACTION

STEP 1. Check manifold assembly for leaks. Ensure that inflation manifold ball valve is open.

STEP 2. Close all airbeam ball valves.

STEP 3. Inspect inflation manifold assembly components, fittings, and hoses for leaks. If any inflation manifold components other than the pressure regulator, pressure relief valve, manifold ball valve or QD fitting is leaking air, the entire manifold assembly must be replaced IAW WP 0025.

STEP 4. If inflation manifold pressure regulator, pressure relief valve, manifold ball valve or QD fitting continues to leak air, or any valve is inoperable and cannot be closed, contact Field Maintenance for corrective action.

INFLATION SYSTEM - CONTINUED**MALFUNCTION**

Hole in air compressor hose assembly.

CORRECTIVE ACTION

Contact Field Maintenance for corrective action.

MALFUNCTION

Air compressor malfunction.

CORRECTIVE ACTION

Refer to the Air Compressor Symptom in this Work Package entitled 'Compressor is not supplying enough air to inflate TEMPER, Air-Supported shelter.'

SYMPTOM

TEMPER, Air-Supported shelter deflates or won't remain inflated.

MALFUNCTION

Airbeam assembly leaks air.

CORRECTIVE ACTION

STEP 1. At each airbeam, close the airbeam ball valves on both sides of each airbeam.

STEP 2. Check all airbeams for leaks. If airbeam ball valve continues to leak while both ball valves are closed, or any airbeam ball valve is inoperable and cannot be closed, contact Field Maintenance for corrective action.

STEP 3. Check airbeam inflation hoses for leaks.

STEP 4. Reconnect airbeam inflation hoses to airbeams and inflation manifold. If airbeam inflation hoses continue to leak after reconnection or QD connection fittings are inoperable and cannot be connected, contact Field Maintenance for corrective action.

STEP 5. Replace airbeam assembly IAW WP 0024.

MALFUNCTION

Manifold assembly leaks air.

CORRECTIVE ACTION

STEP 1. Check manifold assembly for leaks.

STEP 2. Ensure that manifold ball valves are aligned properly for inflation.

STEP 3. Inspect inflation manifold assembly components, fittings, and hoses for leaks. If any inflation manifold components other than the pressure regulator, pressure relief valve, manifold ball valve or QD fitting is leaking air, the entire manifold assembly must be replaced IAW WP 0025.

STEP 4. If inflation manifold pressure regulator, pressure relief valve, manifold ball valve or QD fitting continues to leak air, or any valve is inoperable and cannot be closed, contact Field Maintenance for corrective action.

INFLATION SYSTEM - CONTINUED**SYMPTOM**

Air compressor is not supplying enough air to inflate shelter.

MALFUNCTION

Hole in air compressor hose assembly.

CORRECTIVE ACTION

Contact field maintenance for corrective action.

MALFUNCTION

Air leaks at the air compressor.

CORRECTIVE ACTION

Contact field maintenance for corrective action.

AIRBEAM ASSEMBLY**SYMPTOM**

Airbeam assembly leaks, won't maintain pressure.

MALFUNCTION

Airbeam assembly leaks air.

CORRECTIVE ACTION

STEP 1. Check all airbeams for leaks. Isolate any leaking airbeam by closing each airbeam ball valve on both ends of the airbeam.

STEP 2. If any airbeam ball valve continues to leak while closed, or any airbeam ball valve is inoperable and cannot be closed, contact Field Maintenance for corrective action.

STEP 3. Replace airbeam assembly IAW WP 0024.

AIR COMPRESSOR**SYMPTOM**

Air compressor hose assembly malfunction.

MALFUNCTION

Hole in air hose.

CORRECTIVE ACTION

Contact Field Maintenance for corrective action.

SYMPTOM

Excessive tank pressure, safety valve opens ('pops' up).

MALFUNCTION

Pressure switch does not operate properly.

CORRECTIVE ACTION

Contact Field Maintenance for corrective action.

AIR COMPRESSOR - CONTINUED**SYMPTOM**

Air leaks at tube fittings.

MALFUNCTION

Tube fittings are not tight enough.

CORRECTIVE ACTION

Contact field maintenance for corrective action.

SYMPTOM

Air leaks at or inside check valve.

MALFUNCTION

Check valve seat damaged.

CORRECTIVE ACTION

Contact field maintenance for corrective action.

SYMPTOM

Compressor is not supplying enough air to inflate shelter.

MALFUNCTION

Hole in air hose.

CORRECTIVE ACTION

Contact field maintenance for corrective action.

MALFUNCTION

Air compressor air intake filter restricted.

CORRECTIVE ACTION**CAUTION**

Do not operate the air compressor with the air intake filter removed. Failure to do so may result in damage to the equipment.

Service air filter IAW WP 0036.

MALFUNCTION

Air compressor regulator knob has continuous air leak.

CORRECTIVE ACTION

Damaged regulator. Contact field maintenance for corrective action.

AIR COMPRESSOR - CONTINUED**SYMPTOM****NOTE**

A defective check valve can present the symptom of a constant air leak at the pressure release valve when there is pressure in the tank and the compressor is shut off.

Air leaks at pressure release valve.

MALFUNCTION

Check valve seat damaged.

CORRECTIVE ACTION

Contact Field Maintenance for corrective action.

MALFUNCTION

Defective pressure release valve.

CORRECTIVE ACTION

Contact Field Maintenance for corrective action.

SYMPTOM

Air leaks between head and valve plate.

MALFUNCTION

Leaking seal.

CORRECTIVE ACTION

Contact Field Maintenance for corrective action.

SYMPTOM

Knocking noise.

MALFUNCTION

Possible defect in safety valve.

CORRECTIVE ACTION

STEP 1. Operate safety valve manually by pulling on ring.

STEP 2. If valve still knocks, contact Field Maintenance for corrective action.

MALFUNCTION

Defective check valve.

CORRECTIVE ACTION

Contact Field Maintenance for corrective action.

SYMPTOM

Air leaks in air tank or at air tank welds.

MALFUNCTION

Defective air tank.

CORRECTIVE ACTION

Contact Field Maintenance for corrective action.

AIR COMPRESSOR - CONTINUED**SYMPTOM**

Air Compressor symptom - All other symptoms.

MALFUNCTION

Air Compressor malfunction - All other malfunctions.

CORRECTIVE ACTION

Contact Field Maintenance for corrective action.

AIRBEAM PURGE VACUUM**SYMPTOM**

Airbeam purge vacuum hose assembly malfunction.

MALFUNCTION

Hole in airbeam purge vacuum hose assembly.

CORRECTIVE ACTION

Repair airbeam purge vacuum hose assembly IAW WP 0037.

SYMPTOM

Airbeam purge vacuum symptom - All other symptoms.

MALFUNCTION

Airbeam purge vacuum malfunction - All other malfunctions.

CORRECTIVE ACTION

Contact Field Maintenance for corrective action.

POWER DISTRIBUTION SYSTEM**SYMPTOM**

No Power at the Power Distribution System.

MALFUNCTION

External power inoperative or not properly connected.

CORRECTIVE ACTION

STEP 1. Ensure the external power source is ON. Notify qualified personnel to turn ON power source.

STEP 2. Check that the external power cable is connected to J1 on the distribution box. Connect if necessary.

POWER DISTRIBUTION SYSTEM - CONTINUED**MALFUNCTION**

Defective Power Distribution Box.

CORRECTIVE ACTION

STEP 1. Check that LIGHTS LEFT and LIGHTS RIGHT toggle switches are set to ON, and reset all circuit breakers.

STEP 2. If external power is available to the shelter, but not available at the lighting system, power distribution box convenience outlets or convenience outlet strips, the problem is in the power distribution box. Replace the power distribution box IAW WP 0030. Contact field maintenance for corrective action.

SYMPTOM

No Power at Power Distribution Box GFCI Receptacle.

MALFUNCTION

Power distribution box GFCI receptacle is defective.

CORRECTIVE ACTION

STEP 1. Check that the Outlet Ground Fault Interrupter Reset pushbutton is pushed IN.

STEP 2. If power and lighting is available and the GFCI outlet is not tripped, the GFCI outlet is defective. Contact field maintenance for corrective action.

SYMPTOM

No power at convenience outlet.

MALFUNCTION

External power inoperative or not properly connected.

CORRECTIVE ACTION

STEP 1. Ensure the external power source is ON. Notify qualified personnel to turn ON power source.

STEP 2. Check that the external power cable is connected to J1 on the distribution box. Connect if necessary.

STEP 3. Check power outlet circuit breakers. Reset power outlet circuit breakers. If condition persists, contact field maintenance.

MALFUNCTION

Circuit breaker tripped.

CORRECTIVE ACTION

Reset applicable circuit breaker. If circuit breaker continues to trip or condition persists, contact field maintenance for corrective action.

MALFUNCTION

Outlet Defective.

CORRECTIVE ACTION

STEP 1. Using any standard electrical device, check for power at all outlets.

STEP 2. If any outlet is defective, contact field maintenance for corrective action.

LIGHTING SYSTEM**SYMPTOM**

No power at lights.

MALFUNCTION

Lighting system power switch is off.

CORRECTIVE ACTION

Ensure applicable LIGHTS LEFT or LIGHTS RIGHT toggle switch is ON.

MALFUNCTION

Circuit breaker tripped.

CORRECTIVE ACTION

Reset applicable circuit breaker.

MALFUNCTION

External power inoperative or not properly connected.

CORRECTIVE ACTION

STEP 1. Check that external power cable is connected to power distribution box J1.

STEP 2. Ensure that the lighting extension cables are connected to the power distribution box J5 and J6, and the lighting assemblies.

STEP 3. Ensure external power is ON. Notify qualified personnel to turn ON power source.

STEP 4. Contact field maintenance for corrective action.

MALFUNCTION

Defective lighting extension cable.

CORRECTIVE ACTION

STEP 1. Swap the lighting extension cable(s) from working lighting string to the malfunctioning lighting string(s).

- a. If lighting now works, the lighting extension cable is defective. Replace defective cable.
- b. If lighting still does not work, check external power or power distribution box.

STEP 2. Contact field maintenance for corrective action.

SYMPTOM

No Light at Lighting Fixture(s)

MALFUNCTION

Bulb(s) burned out.

CORRECTIVE ACTION

Replace bulb IAW WP 0026.

END OF WORK PACKAGE

FIELD MAINTENANCE

MAINTAINER TROUBLESHOOTING PROCEDURES

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanics (WP 0065, Item 4)

Personnel Required

Power Generation Equipment Repairer 63J (1)
Quartermaster and Chemical Equipment Repairer
63J (1)

Materials/Parts

Detergent, General Purpose (WP 0064, Item 7)
Tape, Duct (WP 0064, Item 16)

References

WP 0026, WP 0030, WP 0036, WP 0038,
WP 0039, WP 0040, WP 0041, WP 0042,
WP 0043, WP 0044, WP 0045, WP 0045,
WP 0048

Equipment Condition

Shelter deployed or struck

MAINTAINER TROUBLESHOOTING PROCEDURES

INFLATION SYSTEM**SYMPTOM**

Shelter does not inflate.

MALFUNCTION

Hole in air compressor hose assembly.

CORRECTIVE ACTION

Repair air compressor hose assembly IAW WP 0045.

MALFUNCTION

Air compressor malfunction.

CORRECTIVE ACTION

Refer to the specific Air Compressor operator manual for corrective action.

MALFUNCTION

Airbeam assembly leaks air.

CORRECTIVE ACTION

STEP 1. Airbeam ball valve is defective. Refer to WP 0038 Airbeam Ball Valve Replace for corrective action.

STEP 2. Airbeam quick disconnect fitting is defective. Refer to WP 0039 Airbeam Quick Disconnect Replace for corrective action.

INFLATION SYSTEM - CONTINUED**MALFUNCTION**

Inflation manifold assembly leaks air.

CORRECTIVE ACTION

STEP 1. Inflation manifold ball valve is defective. Refer to WP 0042 Manifold Ball Valve Replace for corrective action.

STEP 2. Inflation manifold quick disconnect fitting is defective. Refer to WP 0042 Manifold Quick Disconnect Fitting Replace for corrective action.

STEP 3. If pressure relief valve is leaking, refer to WP 0041 Pressure Relief Valve Replace for corrective action.

STEP 4. If pressure regulator is defective, refer to WP 0040 Pressure Regulator Replace for corrective action.

SYMPTOM

Shelter deflates or won't remain inflated.

MALFUNCTION

Airbeam assembly leaks air.

CORRECTIVE ACTION

STEP 1. Airbeam ball valve is defective. Refer to WP 0038 Airbeam Ball Valve Replace for corrective action.

STEP 2. Airbeam quick disconnect fitting is defective. Refer to WP 0039 Airbeam Quick Disconnect Replace for corrective action.

MALFUNCTION

Manifold assembly leaks air.

CORRECTIVE ACTION

STEP 1. Inflation manifold ball valve is defective. Refer to WP 0042 Manifold Ball Valve Replace for corrective action.

STEP 2. Inflation manifold quick disconnect fitting is defective. Refer to WP 0043 Quick Disconnect Fitting Replace for corrective action.

STEP 3. If pressure relief valve is leaking, refer to WP 0041 Pressure Relief Valve Replace for corrective action.

STEP 4. If pressure regulator is defective, refer to WP 0040 Pressure Regulator Replace for corrective action.

AIRBEAM ASSEMBLY**SYMPTOM**

Airbeam assembly leaks, won't maintain pressure.

MALFUNCTION

Airbeam assembly leaks air.

CORRECTIVE ACTION

STEP 1. Airbeam ball valve is defective. Refer to WP 0038 Airbeam Ball Valve Replace for corrective action.

STEP 2. Airbeam quick disconnect fitting is defective. Refer to WP 0039 Airbeam Quick Disconnect Replace for corrective action.

AIR COMPRESSOR**SYMPTOM**

Excessive tank pressure, safety valve opens ('pops' up).

MALFUNCTION

Pressure switch does not shut off motor when compressor reaches "cut-out" pressure (120 PSIG).

CORRECTIVE ACTION

STEP 1. Move On/Auto/Off switch to the "OFF" position:

- a. If the air compressor shuts off, proceed to Step 2.
- b. If the air compressor does not shut off, the air compressor is defective. Unplug the air compressor electrical power. Replace the air compressor with a serviceable item from stock.

STEP 2. Move the air compressor On/Auto/Off switch to the "ON" position. If the air compressor does not shut off when it reaches "cut-out" pressure (120 PSIG), the air compressor is defective. Unplug the air compressor electrical power. Replace the air compressor with a serviceable item from stock.

SYMPTOM

Air leaks at tube fittings.

MALFUNCTION

Tube fittings are not tight enough.

CORRECTIVE ACTION**CAUTION**

Do not over tighten fittings.

STEP 1. Tighten fittings.

STEP 2. Check fittings with soapy water solution. Do not over tighten fittings. If the air leaks at the fittings cannot be stopped without over tightening the fittings, replace air compressor with serviceable item.

SYMPTOM

Air leaks at or inside check valve.

MALFUNCTION

Check valve seat damaged.

CORRECTIVE ACTION

STEP 1. Clean or replace check valve IAW WP 0044.

STEP 2. Replace air compressor with serviceable item.

AIR COMPRESSOR - CONTINUED**SYMPTOM**

Compressor is not supplying enough air to inflate shelter.

MALFUNCTION

Hole in air compressor hose assembly.

CORRECTIVE ACTION

Repair air compressor hose assembly IAW WP 0036.

MALFUNCTION

Air compressor check valve restricted.

CORRECTIVE ACTION

STEP 1. Clean or replace check valve IAW WP 0044.

STEP 2. Replace air compressor with serviceable item.

MALFUNCTION

Air compressor regulator knob has continuous air leak.

CORRECTIVE ACTION

Damaged regulator. Replace air compressor with serviceable item.

SYMPTOM**NOTE**

A defective check valve can present the symptom of a constant air leak at the pressure release valve when there is pressure in the tank and the compressor is shut off.

Air leaks at pressure release valve.

MALFUNCTION

Check valve seat damaged.

CORRECTIVE ACTION

Clean or replace check valve IAW WP 0044.

MALFUNCTION

Defective pressure release valve.

CORRECTIVE ACTION

Replace air compressor with serviceable item.

SYMPTOM

Air leaks between head and valve plate.

MALFUNCTION

Leaking seal.

CORRECTIVE ACTION

Replace air compressor with serviceable item.

AIR COMPRESSOR - CONTINUED**SYMPTOM**

Knocking noise.

MALFUNCTION

Defective safety valve.

CORRECTIVE ACTION

Operate safety valve manually by pulling on ring. If valve still knocks, replace air compressor with serviceable item.

MALFUNCTION

Defective check valve.

CORRECTIVE ACTION

Clean or replace check valve IAW WP 0044.

SYMPTOM

Air leaks in air tank or at air tank welds

MALFUNCTION

Defective air tank

CORRECTIVE ACTION**WARNING**

Do not repair the leak. Do not drill into, weld or otherwise modify air tank or it will weaken, and the tank can rupture or explode. Failure to do so may result in an air tank rupture or an explosion, which can cause death or serious injury to personnel.

Air tank must be replaced. Return compressor to the manufacturer for service.

SYMPTOM

Air Compressor malfunction - All other malfunctions.

MALFUNCTION

Air Compressor malfunction - All other malfunctions.

CORRECTIVE ACTION

Refer to the specific air compressor operator manual for corrective action.

AIRBEAM PURGE VACUUM**SYMPTOM**

Airbeam purge vacuum symptom - All other symptoms.

MALFUNCTION

Airbeam purge vacuum malfunction - All other malfunctions.

CORRECTIVE ACTION

Replace airbeam purge vacuum with serviceable item from stock.

POWER DISTRIBUTION SYSTEM**SYMPTOM**

No power at the power distribution system.

MALFUNCTION

External power inoperative or not properly connected.

CORRECTIVE ACTION

STEP 1. Ensure the external power source is ON. Notify qualified personnel to turn ON power source.

STEP 2. Check that the external power cable is connected to J1 on the distribution box. Connect if necessary.

STEP 3. Check that LIGHTS LEFT and LIGHTS RIGHT toggle switches are set to ON, and reset all circuit breakers.

STEP 4. If external power is available at the power source, no circuit breakers are tripped, and no power is available in the shelter, either the external power cable or the power distribution box is defective. Replace power distribution box. If problem persists, replace external power cable.

MALFUNCTION

POWER IN circuit breaker tripped or inoperative.

CORRECTIVE ACTION

STEP 1. At the right side of the power distribution box, check POWER IN pushbutton circuit breaker CB1 for damage, or a tripped condition (Out position). If the circuit breaker is tripped (Out position), reset CB1.

STEP 2. If POWER IN circuit breaker CB1 continues to trip, or is visibly damaged, or the condition persists, replace CB1 IAW WP 0048.

MALFUNCTION

Defective Power Distribution Box.

CORRECTIVE ACTION

STEP 1. Check for tripped circuit breakers. Reset any tripped breakers. Replace any broken or defective breakers IAW WP 0048.

STEP 2. Test for proper voltage at J5 through J10.

- a. Turn switches for all outlets and lights ON.
- b. Using multimeter, check for presence of 110 VAC at J5 through J10.
- c. Lack of voltage indicates defective circuit breaker, switch, or jack. Replace defective circuit breaker or switch IAW WP Replace any broken or defective breakers IAW WP 0048. If jack is defective, replace power distribution box IAW WP 0030.

POWER DISTRIBUTION SYSTEM - CONTINUED**SYMPTOM**

No power at a power distribution box GFCI convenience outlet.

NOTE

Ground fault circuit interrupter (GFCI) outlets are identified by the RESET and TEST pushbuttons located in the center of the outlet. Both of the electrical outlets installed on the left and right sides of the power distribution box are GFCI outlets.

MALFUNCTION

Power distribution box GFCI outlet is tripped.

CORRECTIVE ACTION

STEP 1. Reset the circuit breaker by pressing the RESET pushbutton located in the center of the outlet.

STEP 2. If the GFCI circuit breaker continues to trip, remove any electrical devices plugged into the GFCI outlet, and reset the circuit breaker.

MALFUNCTION

Power distribution box GFCI outlet is defective.

CORRECTIVE ACTION

If the GFCI circuit breaker will not reset or continues to trip with no external electrical devices plugged into the outlets, refer to the WP 0048 paragraph 'Replace the GFCI Receptacle' for corrective action.

SYMPTOM

No power at convenience outlet.

MALFUNCTION

External power inoperative or not properly connected.

CORRECTIVE ACTION

STEP 1. Check that the external power cable is connected to J1 on the power distribution box. Connect if necessary.

STEP 2. Ensure the external power source is ON. Notify qualified personnel to turn ON power source.

MALFUNCTION

Power extension cable defective.

CORRECTIVE ACTION

STEP 1. At the front of the power distribution box, check the outlet circuit breakers.

STEP 2. Reset power outlet circuit breakers.

POWER DISTRIBUTION SYSTEM - CONTINUED**MALFUNCTION**

Power outlet circuit breaker defective.

CORRECTIVE ACTION

STEP 1. At the front of the power distribution box, check the outlet pushbutton circuit breakers. Reset power outlet circuit breakers.

STEP 2. If the circuit breaker continues to trip, disconnect the convenience outlet power extension cable plug from power distribution box jack.

STEP 3. If circuit breaker trips with nothing connected to the power distribution box jack, the power outlet circuit breaker is defective. Replace broken or defective breaker IAW WP 0048.

MALFUNCTION

Defective Jack (J7, J8, J9, or J10 as applicable)

CORRECTIVE ACTION

If the power distribution box jack (J7, J8, J9, or J10 as applicable) is broken or otherwise defective, replace the power distribution box IAW WP 0030.

MALFUNCTION

GFCI outlet circuit breaker is tripped.

CORRECTIVE ACTION

STEP 1. Reset the GFCI outlet circuit breaker by pressing the RESET pushbutton in the center of the GFCI outlet.

STEP 2. If the GFCI circuit breaker continues to trip, unplug all devices from receptacles. Reset the circuit breaker.

MALFUNCTION**NOTE**

The first outlet in the convenience outlet string is a ground fault circuit interrupter (GFCI) outlet. The rest of the convenience outlets are standard non-GFCI outlets.

GFCI outlet circuit breaker is defective.

CORRECTIVE ACTION

STEP 1. Reset the GFCI outlet circuit breaker by pressing the RESET pushbutton in the center of the GFCI outlet.

STEP 2. If the GFCI circuit breaker continues to trip, unplug all devices from receptacles. Reset the circuit breaker.

STEP 3. If the GFCI circuit breaker continues to trip, the GFCI outlet is defective. Replace the GFCI outlet IAW WP 0048.

MALFUNCTION

Convenience outlet is defective.

CORRECTIVE ACTION

STEP 1. Using a multimeter, check for proper voltage at the convenience outlet.

STEP 2. Check the GFCI outlet for a tripped condition. Reset the circuit breaker.

STEP 3. If the convenience outlet is inoperable, the outlet is defective. Replace convenience outlet IAW WP 0047.

LIGHTING SYSTEM**SYMPTOM**

No power at lights.

MALFUNCTION

External power inoperative or not properly connected.

CORRECTIVE ACTION

STEP 1. Check that Left and Right Light Toggle Switches are set to ON (UP) position.

STEP 2. Check that the external power cable is connected to J1 on the distribution box. Connect if necessary.

STEP 3. Ensure the external power source is ON. Notify qualified personnel to turn ON power source.

STEP 4. Ensure that the Left and Right lighting extension cables are connected to J5 and J6 on the power distribution box.

MALFUNCTION

Defective lighting extension cable.

CORRECTIVE ACTION

STEP 1. To determine serviceability of cable, swap the lighting extension cable(s) from working lighting string to the malfunctioning lighting string(s).

STEP 2. Replace defective cable with serviceable item from stock.

MALFUNCTION

Defective lighting toggle switch.

Replace defective lighting toggle switch IAW WP 0048.

MALFUNCTION

Lighting fixture bulb is defective.

CORRECTIVE ACTION

Replace fluorescent bulb IAW WP 0026.

END OF WORK PACKAGE

CHAPTER 5

**PMCS MAINTENANCE INSTRUCTIONS
FOR
TEMPER, AIR-SUPPORTED**

OPERATOR MAINTENANCE

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) INTRODUCTION

GENERAL

The following describe PMCS procedures at the operator level. The PMCS table has been provided to ensure the TEMPER, Air-Supported is in proper operating condition, and ready for its primary mission.

Frequency of Performing PMCS

PMCS will be performed before equipment is setup, after takedown, after modification or repair or at any time deemed necessary by the local system technician or senior NCO.

PMCS Column Entries Table 1

Item Number. The item number column shall be used as a source of the item number required for the TM Number column on DA Form 2404 (Equipment Inspection and Maintenance Worksheet), when recording the results of the PMCS.

Interval. This column identifies the required PMCS interval.

before - perform before shelter deployment
during - perform during equipment operation
after - perform after shelter takedown
weekly - perform every week
monthly - perform each month
hours - perform at the noted hourly interval

Item to be inspected. Contains the common name of the item to be inspected.

Procedures. Provides a brief description of the procedures by which the checks are to be performed.

Equipment Not Ready/Available If. Provides a brief description of the conditions which render the equipment not ready for operational use or not available until the deficiency is corrected.

Recording Defects

All defects discovered during the inspection will be recorded using the applicable specifics in DA PAM 750-8, and DA PAM 738-751.

Inspection Function Requirement

Normally, equipment maintenance personnel at a repair section activity will perform an inspection. The inspection of initial receipt items will be performed as a separate function; the item to be inspected will be placed in proper layout on a suitable sized area.

Should defect or damage be discovered at any point during the inspection, the damage will be noted and the applicable item will be processed and repaired. The repair activity, in turn, will conduct an inspection.

END OF WORK PACKAGE

OPERATOR MAINTENANCE

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

INITIAL SETUP:

Reference

WP 0005, WP 0063

Preventive Maintenance Checks and Services

NOTE

The frequency of the interval 'During' inspection is determined IAW Unit SOP.

Table 1. Preventive Maintenance Checks and Services for TEMPER, Air-Supported.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	Before Deployment/Issue	TEMPER, Air-Supported	Inspect and verify that assembly is complete, and no components are missing IAW WP 0063.	Assembly is not complete, and components are missing.
2	During	Outer Skin (includes End Sections and Vestibule)	<p style="text-align: center;">NOTE</p> <p>Common outer skin and end section tear points are at the corners, mudflaps, becket laces and grommets.</p> <p>Inspect exterior, interior and floor material, fabric loops, ties, hook and pile fastening strips for holes, cuts, frays, tears, burns, improper installation, loose or broken stitching.</p> <p>Inspect vestibule frames, hitch clip pins, attaching lanyards, plastic d-rings and tent slips for missing or damage parts that would prevent proper operation.</p> <p style="text-align: center;">NOTE</p> <p>Floor becket loops are located under the hook and pile fastening straps.</p> <p>Check becket lacing loops for frayed, cut, loose or broken Becket lacing loops.</p>	<p>Presence of holes, cuts, frays, tears, burns, improper installation, loose or broken stitching beyond the available patch material in the repair kit.</p> <p>Missing or damaged vestibule frames, hitch clip pins, attaching lanyards, plastic d-rings or tent slips that would prevent proper operation.</p> <p>3 or more broken Becket lacing loops.</p>

Preventive Maintenance Checks and Services - Continued

Table 1. Preventive Maintenance Checks and Services for TEMPER, Air-Supported - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
3	During	Windows and Clear Window Panels	<p style="text-align: center;">NOTE</p> <p>Common window panel tear points are at the corners.</p> <p>Inspect for holes, cuts, frays, tears, burns, improper installation, loose or broken stitching.</p>	<p>Presence of holes, cuts, frays, tears, burns, improper installation, loose or broken stitching beyond the available patch material in the repair kit.</p>
4	During	External Bracing, Snow Straps and Shelter Support Ropes	<p>Inspect for cuts, frays, tears, burns, improper installation, loose or broken hardware.</p>	<p>Presence of cuts, frays, tears, improper installation, loose or broken hardware or any other damage that would prevent proper operation or installation.</p>
5	During	Tent Pin, 18-Inch and 36-Inch	<p>Inspect for bent, cracked, damaged, loose or missing tent pins that would prevent proper operation or installation.</p>	<p>Presence of bends, cracks, damage, loose or missing tent pins that would prevent proper operation or installation.</p>
6	During	Liner Assembly including Liner End Section and Plenum	<p>Inspect liner and plenum material, fabric loops, ties, hook and pile fastening strips for holes, cuts, frays, tears, burns, improper installation, loose or broken stitching.</p> <p>Inspect plastic d-rings and clips for missing or damage parts that would prevent proper operation.</p>	<p>Presence of holes, cuts, frays, tears, burns, improper installation, loose or broken stitching beyond the available patch material in the repair kit.</p> <p>Missing or damaged plastic d-rings or clips that would prevent proper operation.</p>
7	During	Power Distribution Assembly (Includes Power Distribution Box, Mounting Pole and Convenience Outlet Cables).	<p>Inspect for proper operation and obvious damage (i.e. lights work, power outlets work).</p>	<p>Presence of burned out lights, loose wiring, missing hardware, cut or torn insulation, or any damage that would prevent safe operation.</p>

Preventive Maintenance Checks and Services - Continued

Table 1. Preventive Maintenance Checks and Services for TEMPER, Air-Supported - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
8	During	Lighting Assembly (Includes Lighting Units, Lighting Extension Cables and Lighting Straps).	Inspect for proper operation, secure attachment, burned out lights and obvious damage.	Presence of any damage that would prevent electrically safe operation.
9	After	TEMPER, Air-Supported	Inspect, clean and verify that assembly is complete, and no components are missing IAW WP 0063.	Assembly is not complete, and components are missing.
10	Monthly	Inflation System	<p>Check inflation system air pressure by performing the following steps:</p> <ol style="list-style-type: none"> 1. At the shelter exterior, on the manifold side of the tent, open the airbeam ball valve access pockets and open all four airbeam pigtail ball valves to connect all airbeams to the inflation system. 2. Open the manifold air hose access pocket and remove pressure gauge. 3. Connect the pressure gauge QD fitting to the deflation air hose QD fitting. 4. Open the deflation air hose ball valve. 5. Visually verify that the TEMPER, Air-Supported inflation system reads 50 +/- 5 PSIG at the air pressure gauge. 6. Restore equipment to normal operating condition. 	TEMPER, Air-Supported Inflation system air pressure reading is outside acceptable range of 50 +/- 5 PSIG. Refer to WP 0005 to inflate shelter to 50 +/- 5 PSIG.
10	Monthly	Air Compressor	Inspect for presence and proper operation IAW owners manual.	Missing or inoperable IAW owners manual.

Preventive Maintenance Checks and Services - Continued

Table 1. Preventive Maintenance Checks and Services for TEMPER, Air-Supported - Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
11	Monthly	Airbeam Purge Vacuum	Inspect for presence and proper operation IAW owners manual.	Missing or inoperable IAW owners manual.
12	Monthly	Stake Removal Tool	Inspect for presence and damage to the strap.	Missing or has damage to the strap that would prevent proper operation.

CHAPTER 6

**OPERATOR MAINTENANCE INSTRUCTIONS
FOR
TEMPER, AIR-SUPPORTED**

**OPERATOR MAINTENANCE
SERVICE UPON RECEIPT**

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanics (WP 0065, Item 4)

Personnel Required

Non-MOS Specific (1)

References

ASTM D6251
DA Form 2404
DA Form 5988E
DD Form 361
WP 0063

SITE AND SHELTER REQUIREMENTS

When selecting a site on which to set up the TEMPER:

1. Select a level area.
2. Ensure there are sufficient space (length X width FT) to complex the needed TEMPER sections.
3. The area should be accessible to tactical vehicles.
4. If possible, the area should be sheltered from high winds.
5. Clear area of rocks and underbrush.
6. If necessary, dig a drainage ditch around the area to provide adequate drainage.

SERVICE UPON RECEIPT OF MATERIEL**Unpacking**

The TEMPER components, will be packaged in a cleated plywood reusable shipping crate as per ASTM D6251 that is 85 inches long, 47 inches wide, and 46 inches high. The crate is strapped to a wooden pallet. Upon receipt, check for damage. Report any damage to the carrier on DD Form 361 and to your supervisor.

CAUTION

Unpack components carefully. Improper handling may result in damage to the TEMPER components and accessories.

1. Position crate to be unpacked with the top facing up.
2. Open the crate, remove any padding material, and set it aside. Do not cut, rip, or otherwise damage the packing material.
3. Remove loose components from the crate.

SERVICE UPON RECEIPT OF MATERIEL - CONTINUED

WARNING



The TEMPER, Air-Supported package in the transportation cover weighs approximately 600 lbs. Use sufficient personnel and lifting equipment when moving. Failure to do so could result in death or serious injury to personnel and damage to equipment.

4. Using suitable lifting equipment, lift the TEMPER, Air-Supported shelter from the crate.

Shipping Material

Retain the shipping container and any packing material for reuse.

Checking Unpacked Equipment

NOTE

The following components are typically pre-installed inside the shelter, or attached to the shelter, and will require unrolling/unfolding the shelter to inspect these components:

Item	Qty	Item	Qty
▪ End Section	2	▪ Fixed External Bracing Assembly	1
▪ Airbeam Assembly	3/4	▪ Bottom Ratchet External Bracing Assembly	2
▪ Liner, Thermal	1	▪ Top Ratchet External Bracing Assembly	2
▪ Liner End Section	2	▪ Snow Strap	2
▪ Plenum	1	▪ Rope, 3/8" Polyester Braid, Black	8
▪ Mega Light Strap	2	▪ Inflation System (Single Manifold)	1
▪ Pressure Gauge	1	▪ Vestibule, With Door (Green or Tan)	1

Inspect the unpacked components for damage, completeness, and application of applicable Modification Work Orders (MWOs) as follows:

Damage. Check contents for shipping damage. Report any damage on DD Form 361, Packaging Improvement Report. Also note damage on DA Form 5988E, Equipment Inspection and Maintenance Worksheet, and initiate corrective maintenance procedures in accordance with Chapter 6 and/or 7 of this technical manual.

Completeness. Inspect the contents of the shipment against the packing slip to see if any items are missing (Refer to WP 0063, Components of End Item). Report any discrepancies noted in accordance with instructions in DA Pam 750-8. The equipment can be placed in service even if accessory or other parts/assemblies that do not affect proper operation are missing.

SERVICE UPON RECEIPT OF MATERIEL - CONTINUED**Air Compressor Initial Break-In****CAUTION**

Serious damage to the air compressor may result if the following break-in procedural steps are not closely followed.

NOTE

These break in procedural steps are required before the air compressor is put into service and when the check valve has been cleaned or replaced.

1. Set the air compressor ON/AUTO/OFF lever (Figure 1, Item 1) to the "OFF" (Down) position.

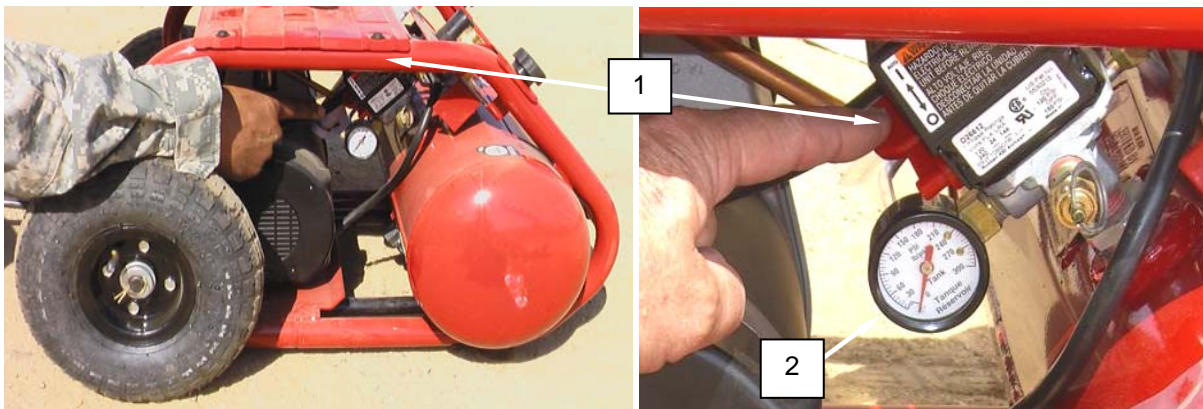


Figure 1. Turn Off Air Compressor.

NOTE

Resetting quick disconnect (QD) fittings on the front panel prevents air from escaping through the QD fittings.

2. Pull quick disconnect fitting collars (Figure 2, Item 1) out until they click.

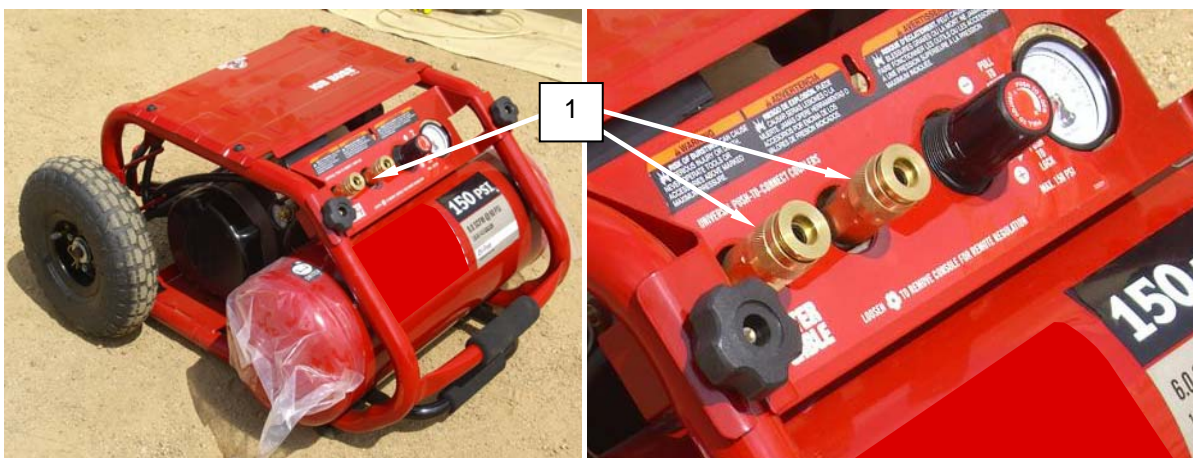


Figure 2. Reset Quick Disconnect Fitting Collars.

SERVICE UPON RECEIPT OF MATERIEL - CONTINUED

3. Connect the air compressor to an external electrical power source (Figure 3).



Figure 3. Connect Air Compressor to Power Source.

4. On the bottom of the air compressor, fully open the drain valve (Figure 4, Item 1) to permit air to escape and prevent air pressure build up in the air tank during the break-in period.

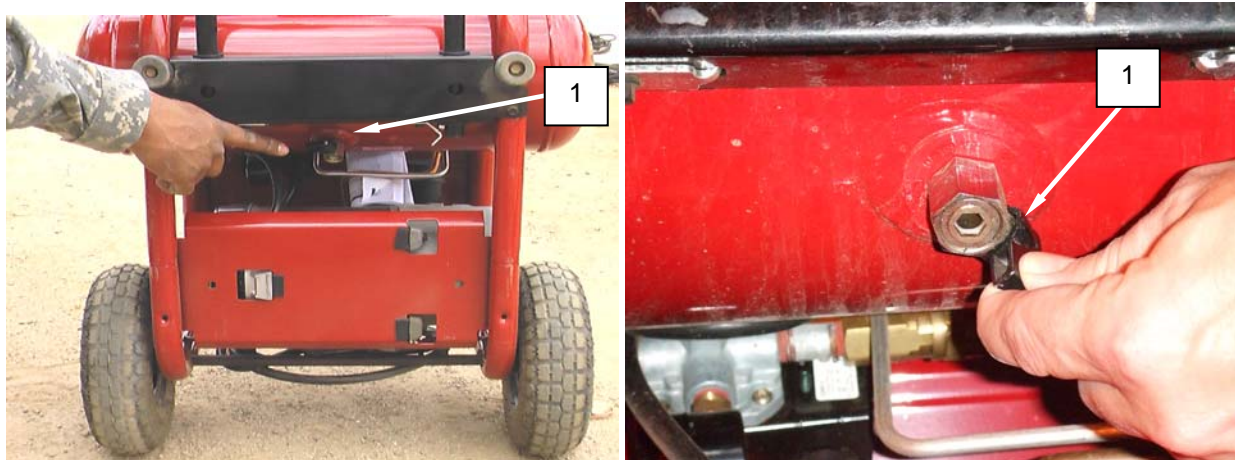


Figure 4. Open Air Tank Drain Valve.

SERVICE UPON RECEIPT OF MATERIEL - CONTINUED

5. Set the air compressor ON/AUTO/OFF lever (Figure 5, Item 1) to the "ON/AUTO" (Up) position.

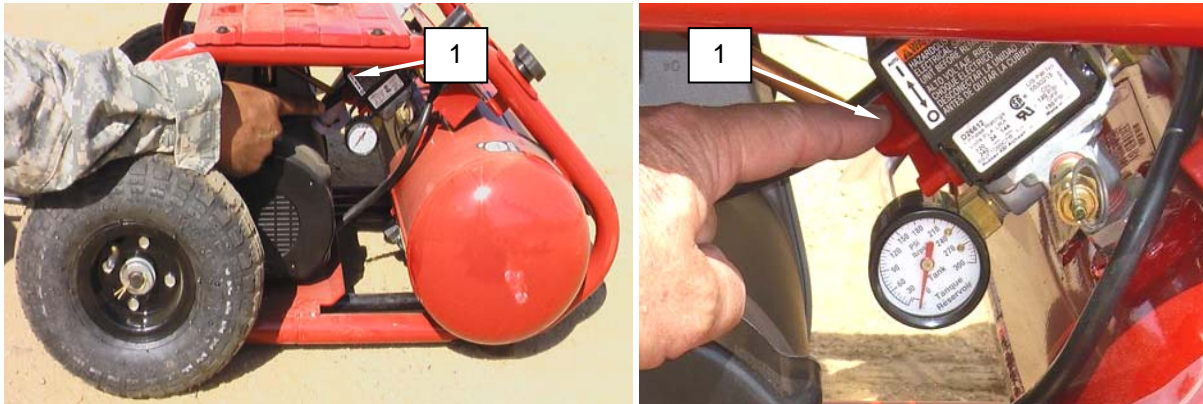


Figure 5. Air Compressor On/Auto/Off Lever.

6. Verify that the air compressor starts.
7. Make sure the drain valve (Figure 6, Item 1) is open, and monitor the air tank pressure gauge (Figure 5, Item 2) to ensure that there is minimal air pressure build-up in the tank during the break-in period.
8. Run the compressor for 15 minutes.
9. After 15 minutes, close the drain valve (Figure 6, Item 1). The air receiver will fill to "cut-out" pressure (120 PSIG), and the air compressor motor will automatically stop.



Figure 6. Close Air Tank Drain Valve.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE**CLEAR WINDOW PANEL
SERVICE, REPLACE**

INITIAL SETUP:**Materials/Parts**

Detergent, General Purpose (WP 0064, Item 7)
Rag, Wiping (WP 0064, Item 12)

Personnel Required

Non-MOS Specific (1)

Equipment Condition

Shelter either deployed or struck.

SERVICE

Clean the component as needed to remove dirt or other debris. Use warm, soapy water and a rag. Dry the component completely.

REPLACE**Remove Clear Window Panel**

1. Roll up the window cover (Figure 1, Item 1), and tie the window cover in place using the ties above the window panel (Figure 1, Item 2).

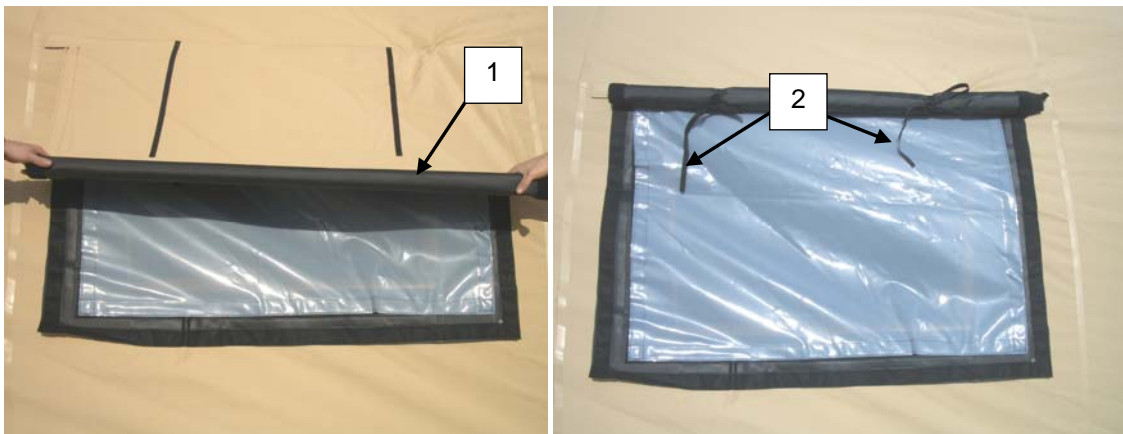


Figure 1. Roll Up Window Cover.

REPLACE - CONTINUED

2. Remove clear window panel by rolling up the window panel (Figure 2, Item 1) from the hook and pile fastening tape. Detach clear window panel from window opening. Set aside for storage or reuse.

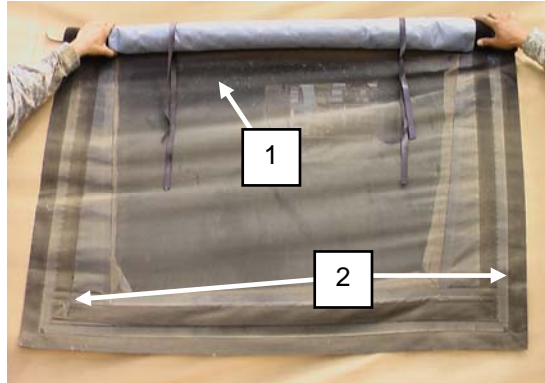


Figure 2. Removing Clear Window Panel.

3. Remove the clear window panel.

END OF TASK**Install Clear Window Panel**

1. Position clear window panel over hook and pile tape fastening strips (Figure 3).



Figure 3. Install Clear Window Panel.

2. Roll the new clear window panel down over the window opening, pressing firmly on the edges of the new window panel to secure the hook and pile fastening tape.

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE**END SECTION
SERVICE, REPAIR, REPLACE****INITIAL SETUP:****Tools and Special Tools**

Knife, Utility (WP 0065, Item 2)
Tape, Measuring (WP 0065, Item 3)

Personnel Required

Non-MOS Specific (2)

Materials/Parts

Adhesive (WP 0064, Item 1)
Brush, Acid Swabbing (WP 0064, Item 2)
Brush, Scrub (WP 0064, Item 3)
Paper Cup (WP 0064, Item 6)
Detergent, General Purpose (WP 0064, Item 7)
Gloves Chemical (WP 0064, Item 8)
Goggles (WP 0064, Item 9)
Lead, Pencil, Graphite (WP 0064, Item 10)
Paper Plate (WP 0064, Item 11)
Rag, Wiping (WP 0064, Item 12)
Repair Kit (WP 0064, Item 13, 14)

References

WP 0006, WP 0007, WP 0021, WP 0022,
WP 0023, WP 0031

Equipment Condition

Shelter either deployed or struck

SERVICE

1. Using warm, soapy water and a rag, clean the end section (Figure 1) as needed to remove dirt or other debris.



Figure 1. TEMPER, Air-Supported End Section.

2. Dry the end section completely.

END OF TASK

REPAIR**Repair the End Section with a Temporary Patch****NOTE**

The end section (Figure 2) can be repaired with the tent deployed, but any attached components in the vicinity of the damage (vestibule, liner end section, power or lighting extension cords), must be removed, to safely repair the end section.

A step aid may be required to detach components from the end section.



Figure 2. End Section.

1. If necessary, perform the Removal sequence of the Replace procedure for any components attached on the exterior or interior near the damaged area of the end section:
 - a. Power Distribution Assemblies - WP 0007.
 - b. Lighting Assemblies - WP 0007.
 - c. Liner End Section - WP 0021.
 - d. Main Liner - WP 0022.
 - e. Vestibule Assembly - WP 0031.

REPAIR - CONTINUED**NOTE**

The repair kit contains temporary self-stick adhesive patches for shelter skin, floor, and liner patches. The procedures are identical for all end section materials.

2. With a brush and warm, soapy water, remove any surface dirt or debris from the damaged area. Allow the area to dry thoroughly.
3. Trim any frayed edges or torn fabric to prepare a neat, clean edged area for adhesive patching.

NOTE

Rounding the corners on an adhesive patch generally yield better long term results.

4. Measure the height and width of the damaged area, and cut a piece of temporary self-stick adhesive patching material to extend and overlap beyond the damaged area 1-inch in all directions (Figure 3). Round the corners of the temporary patch.



Figure 3. Measure and Cut Temporary Patch.

REPAIR - CONTINUED

5. With an alcohol prep pad, scrub the area where the adhesive patch will be applied (Figure 4). Allow area to dry before applying patch.



Figure 4. Prepare Adhesive Patch Area.

6. Peel the backing paper (Figure 5, Item 1) from the adhesive patch (Figure 5, Item 2), and apply the adhesive patch to the damaged area.

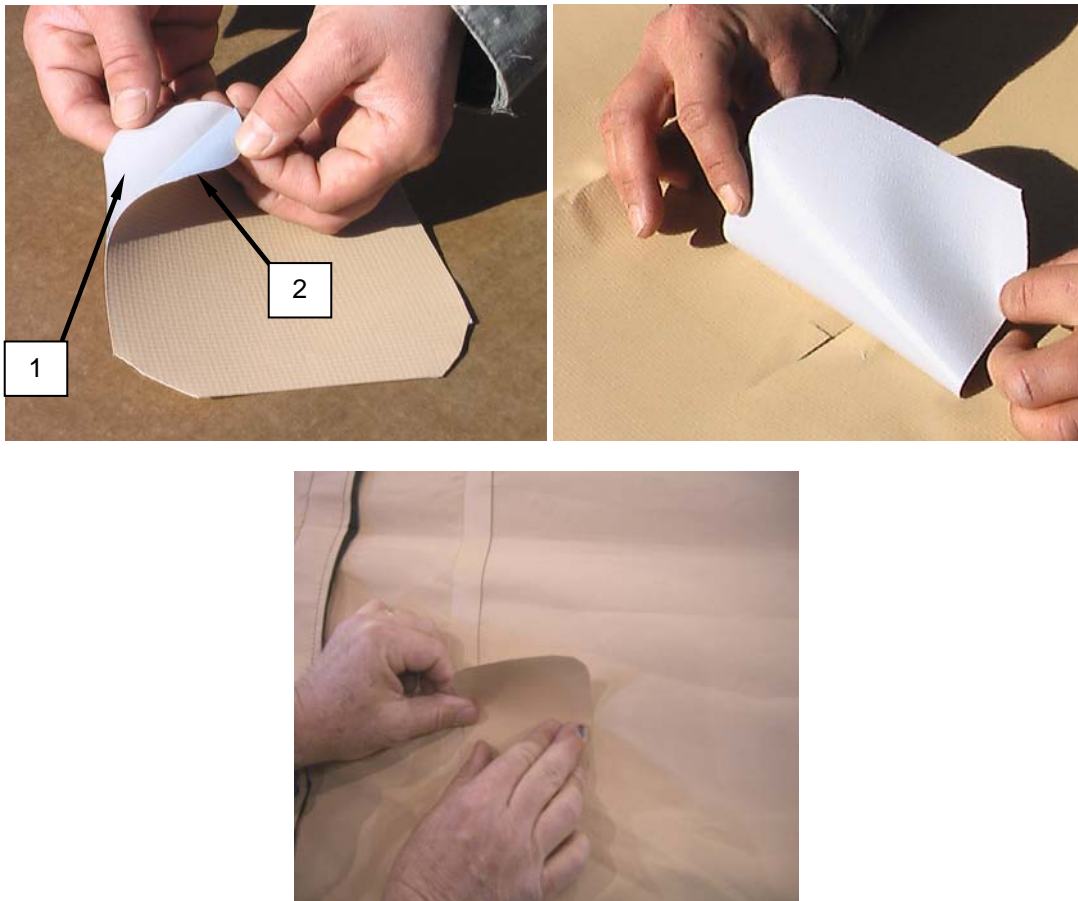


Figure 5. Apply Temporary Patch.

REPAIR - CONTINUED

7. Working from the center of the temporary patch outwards, press firmly, working any folds or air pockets out of the patch area (Figure 6).

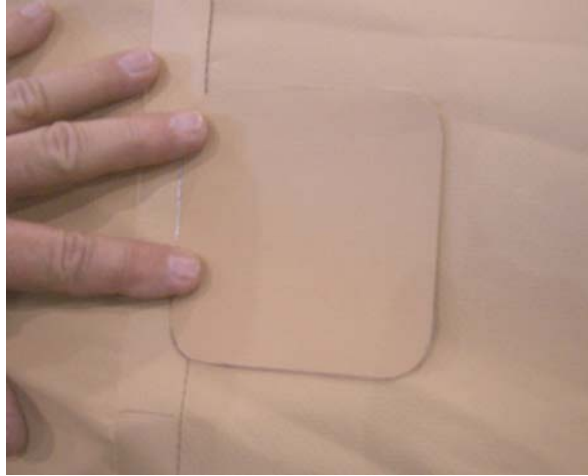


Figure 6. Completed Temporary Patch.

8. Allow 30 minutes for the temporary patch adhesive material to cure and dry completely.
9. If removed during the repair, perform the Installation sequence of the Replace procedure for any components removed near the repaired area:
 - a. Main Liner - WP 0022.
 - b. Liner End Section - WP 0021.
 - c. Plenum - WP 0023.
 - d. Lighting Assemblies - WP 0006.
 - e. Power Distribution Assemblies - WP 0006.
10. Allow 30 minutes for the temporary patch adhesive material to cure and dry completely.

END OF TASK

REPAIR - CONTINUED**Repair Of The End Section With A Permanent Patch****NOTE**

The repair kit contains patch materials for exterior, floor and liner patches. The patch procedures are identical for all of the end section materials.

1. With a brush and warm, soapy water, remove any surface dirt or debris from the damaged area. Allow the area to dry thoroughly.
2. Trim any frays or torn fabric to prepare a neat, clean edged area for patching.

NOTE

Rounded corners on a patch generally yield better long term results.

3. Measure the height and width of the damaged area, and cut a piece of patching material to extend and overlap beyond the damaged area 1-inch in all directions (Figure 7). Round the corners of the patching material.



Figure 7. Measure and Cut Patch Material.

REPAIR - CONTINUED

- Using an alcohol prep pad, clean the area where the adhesive patch will be applied (Figure 8).



Figure 8. Preparing Damaged Area with Alcohol Prep Pad.

- Using an alcohol prep pad, clean the side of the patch that will come in contact with the damaged end section (Figure 9).

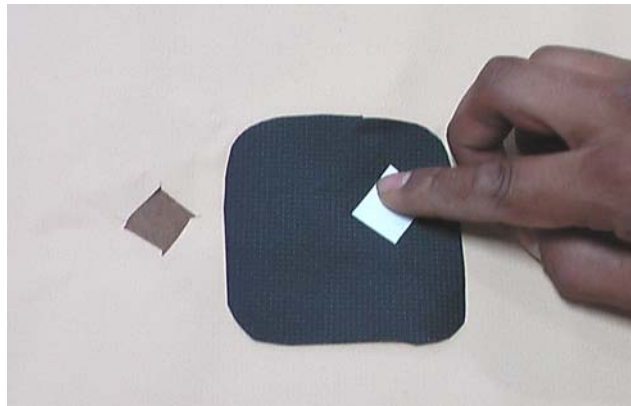


Figure 9. Preparing Patch with Alcohol Prep Pad.

- Place the prepared patch in position over the damaged area of the end section and trace around the patch perimeter with a pencil (Figure 10).



Figure 10. Trace Patch Perimeter with Pencil.

REPAIR - CONTINUED

WARNING

HH-66 Vinyl Cement is highly combustible, DO NOT use near an open flame or spark. Use only in a well ventilated area as the chemical vapors are hazardous. Be sure to protect yourself with gloves and goggles and avoid skin and eye contact. If your skin should come in contact with the vinyl cement, flush the area with water and seek medical attention. Failure to adhere to these warnings may result in injury or death.

7. Remove the patch and apply adhesive to the damaged area of the end section going just beyond the patch perimeter previously marked (Figure 11).



Figure 11. Apply Adhesive to Damaged Area.

8. Place the patch on a suitable work surface and apply adhesive to the side of the patch that will come in contact with the damaged end section (Figure 12).



Figure 12. Apply Adhesive to Patch.

9. Wait approximately 2 - 5 minutes until the adhesive that was applied to the damaged end section and the patch is tacky and does not cling to the finger if touched.

REPAIR - CONTINUED**CAUTION**

The adhesive used to apply the permanent patch is a contact adhesive. Be sure to align the patch over the damaged area before coming in contact with the damaged area. Once the patch comes in contact with the end section it cannot easily be removed and can result in additional damage to the end section if repositioning is necessary.

10. Apply the patch to the damaged area of the end section by aligning one edge with the pencil line made earlier on the damaged area (Figure 13). Carefully roll the patch over the damaged area to prevent wrinkles or bubbles under the patch. Apply additional adhesive if necessary to areas under the patch that are not bonded to the damaged end section. Allow the adhesive to dry to a light tack before pressing into position.



Figure 13. Apply Patch to Damaged Area.

11. Once the patch has been completely applied to the damaged area, press firmly with fingers, working from the center of the permanent patch outwards ensuring that any folds or air pockets have been worked out of the patch area (Figure 14).



Figure 14. Remove Air Pockets from Patch.

REPAIR - CONTINUED

12. Repeat Steps 1 through 11 and apply a permanent patch over the damaged area on the interior of the shelter (Figure 15).



Figure 15. Applying Permanent Patch to Damaged End Section.

13. Allow 30 minutes for the permanent patch adhesive material to cure and dry completely.
14. If removed during the repair, perform the installation sequence of the replace procedure for any components removed near the repaired area:
- Main Liner - WP 0022.
 - Liner End Section - WP 0021.
 - Lighting Assemblies - WP 0006.
 - Power Distribution Assemblies - WP 0006.

END OF TASK

REPLACE**Prepare For End Section Removal****NOTE**

End sections (Figure 16) can be removed or installed with the tent deployed, but all attached components must be removed, to safely replace an end section.



Figure 16. TEMPER, Air-Supported End Section.

1. If the end section to be replaced is on the vestibule end, detach Vestibule Assembly IAW WP 0031.
2. Detach Power Distribution or Lighting Components from the end section IAW WP 0007.
3. If the end section to be replaced is on the vestibule end, detach the Plenum from the Main Liner and Liner End Section IAW WP 0023.
4. Detach Liner End Section components attached to the end section to be replaced IAW WP 0021.
5. Detach Main Liner components attached to the end section to be replaced IAW WP 0022.

END OF TASK

REPLACE - CONTINUED**Remove End Section****NOTE**

The End Section is attached to the inside of the main body skin with becket laces (Figure 17, Item 1) and hook and pile tapes (Figure 17, Item 2).

A step aid may be required to untie the uppermost end section becket laces.

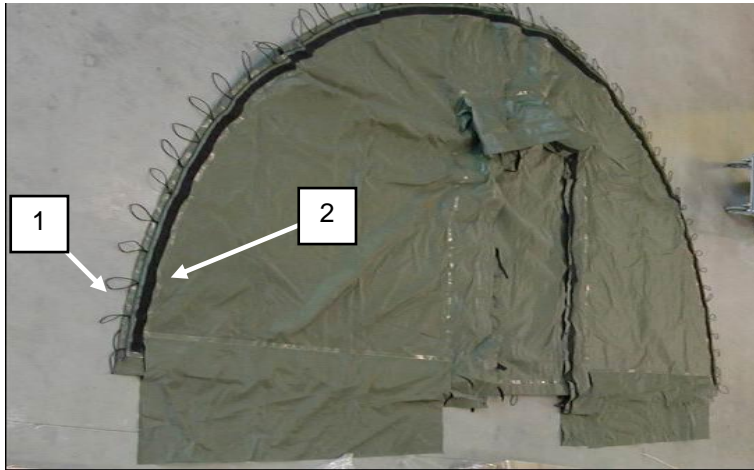


Figure 17. End Section with TEMPER Vestibule Interface.

1. From the inside of the tent, along the floor at the bottom of the end section, open the protective hook and pile tape (Figure 18, Item 1), and untie the half-hitch knot at the bottom becket lace loop (Figure 18, Item 2).

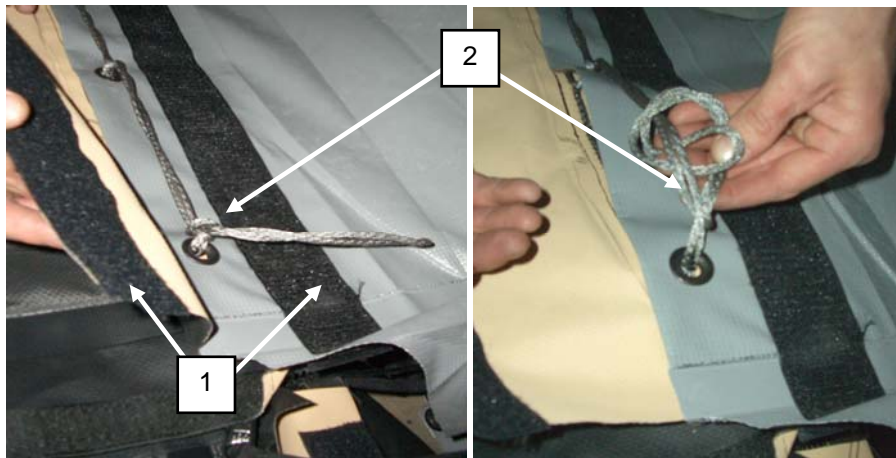


Figure 18. Untie Becket Loop Half-Hitch Knot.

REPLACE - CONTINUED

2. Moving from the doorway outwards, open the protective hook and pile tape (Figure 19, Item 1), and untie the becket lacing (Figure 19, Item 2) from the end section to be replaced.
3. Moving from bottom upwards toward the top center, open the protective hook and pile tape (Figure 19, Item 1), and untie the becket lacing (Figure 19, Item 2) from the end section to be replaced.

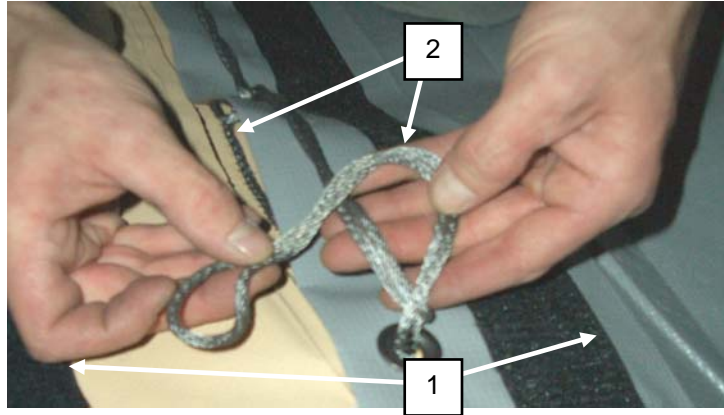


Figure 19. Untie End Section Becket Lacing.

4. Repeat Steps 1 and 2 for the opposite side of the end section.
5. Remove the end section from the main body skin.

END OF TASK**Install End Section****NOTE**

A step aid may be required to reach the becket laces at the top of the end section.

The end section is attached to the main body skin with becket lacing and hook and pile fastening tapes (Figure 20).

1. Lay out end section, black side down, with the end section door zippered closed (Figure 20).



Figure 20. TEMPER, Air-Supported End Section.

REPLACE - CONTINUED

2. From the top center of the end section, lift the end section into position, aligning the top center end section grommets (Figure 21, Item 1) with the becket laces on the main body skin (Figure 21, Item 2).

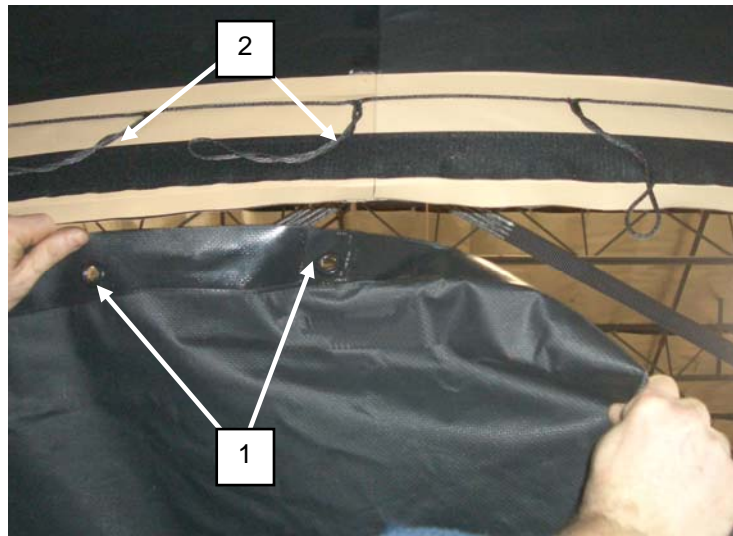


Figure 21. Aligning TEMPER, Air-Supported End Section.

3. Beginning at the top center of the end section, pull the first becket lace (Figure 22, Item 1) in the main body skin through the top aligned grommet in the end section (Figure 22, Item 2).

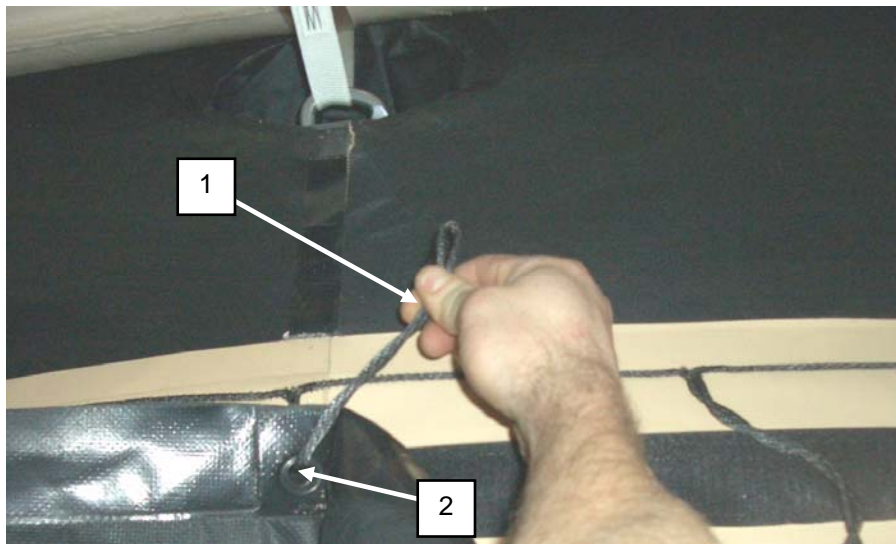


Figure 22. Pull First Becket Lace Through Top Grommet in End Section.

REPLACE - CONTINUED

4. Grasp the second becket lace on the main body skin (Figure 23, Item 1), and thread it through the second end section grommet (Figure 23, Item 2), and the loop of the first becket lace (Figure 23, Item 3), pulling it tight toward the bottom of the end section.

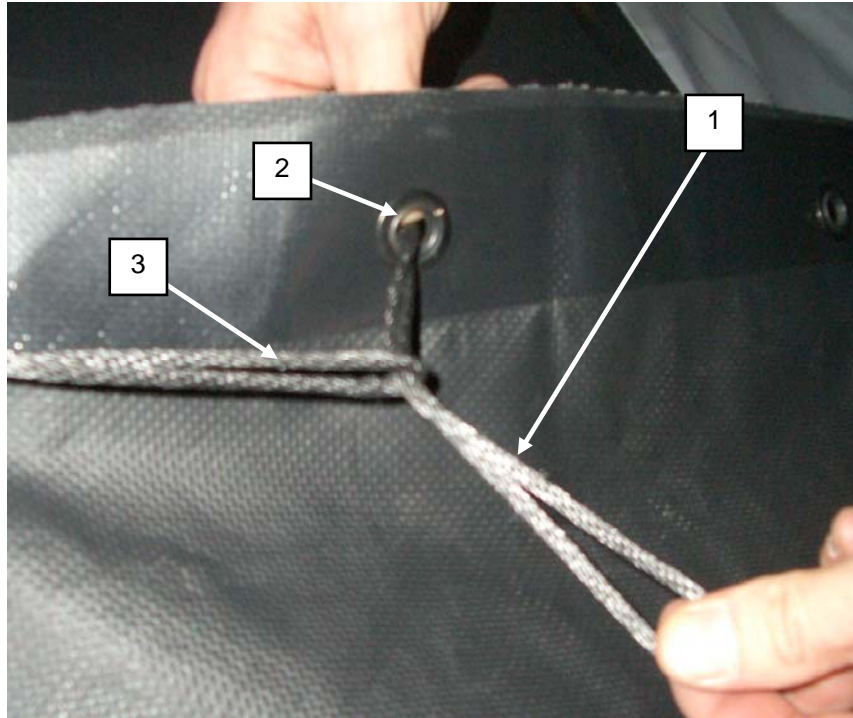


Figure 23. Pull Second Becket Lace through Grommet and First Becket Lace.

5. Grasp the third becket lace (Figure 24, Item 1) on the end section and thread it through the third aligned grommet (Figure 24, Item 2) on the end section and loop of the second becket lace (Figure 24, Item 3) pulling it tight toward the bottom of the end section.
6. Continue this procedure, lacing the becket loops until the bottom of the end section is reached (Figure 24, Item 4). As the lacing progresses, close the hook and pile wind flap on the tent section over the becket lacing.

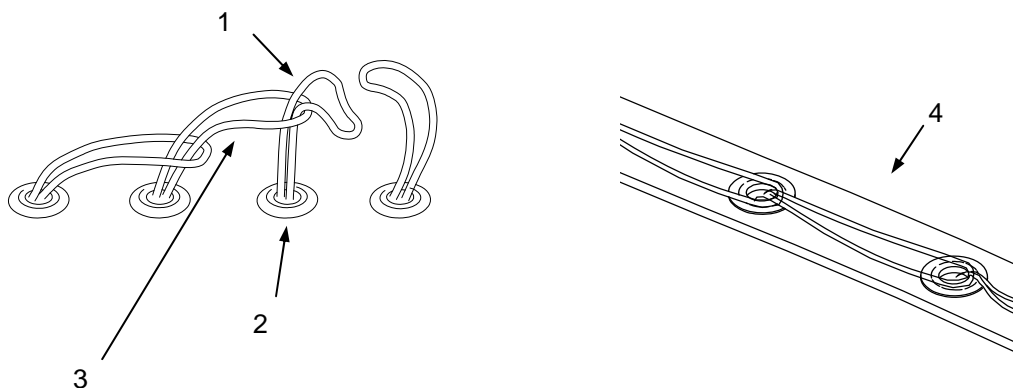


Figure 24. Becket Lacing Sequence.

REPLACE - CONTINUED

7. Upon reaching the last becket lace on the end section at the bottom of the tent, insert the last becket lace (Figure 25, Item 1) through the loop of the next to last becket lace (Figure 25, Item 2).

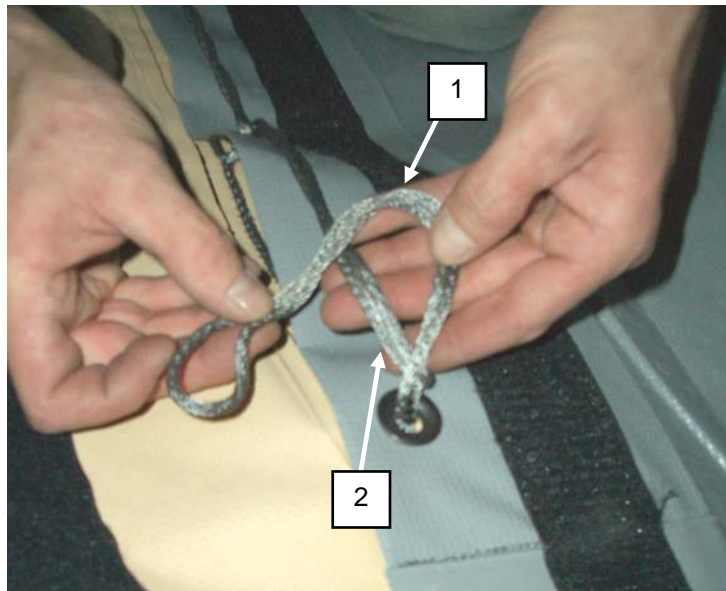


Figure 25. Thread last Becket Lace through next to last Loop.

8. Pull the last becket lace tight back toward the bottom of the tent and tie it off with a half-hitch knot (Figure 26, Item 1). Seal the remaining section of the tent hook and pile wind flap (Figure 26, Item 2).

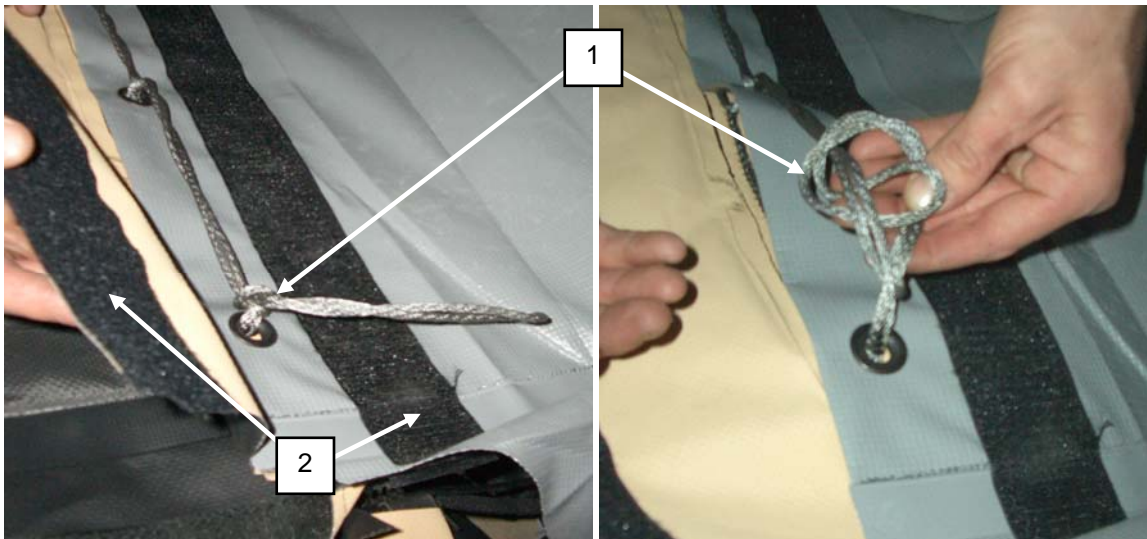


Figure 26. Tie Becket Loop Half-Hitch Knot.

9. Repeat Steps 3 through 8 for the opposite side and the bottom of the end section.

REPLACE - CONTINUED**NOTE**

To complete the end section installation, any TEMPER, Air-Supported assemblies that were removed must be re-installed using the appropriate Work Package procedures.

10. If previously removed, re-install Vestibule Assembly IAW WP 0031.
11. If necessary, re-install Main Liner components IAW WP 0022.
12. If necessary, re-install Power Distribution or Lighting Components IAW WP 0006.
13. If necessary, re-install Liner End Section components IAW WP 0021.
14. If previously removed, re-install the Plenum IAW WP 0023.

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE**MAIN BODY SKIN
SERVICE, REPAIR, REPLACE****INITIAL SETUP:****Tools and Special Tools**

Knife, Utility (WP 0065, Item 2)
Tape, Measuring (WP 0065, Item 6)

Personnel Required

Non-MOS Specific (2)

Materials/Parts

Adhesive (WP 0064, Item 1)
Brush, Acid Swabbing (WP 0064, Item 2)
Brush, Scrub (WP 0064, Item 3)
Paper Cup (WP 0064, Item 6)
Gloves Chemical (WP 0064, Item 8)
Goggles (WP 0064, Item 9)
Lead, Pencil, Graphite (WP 0064, Item 10)
Paper Plate (WP 0064, Item 11)
Rag, Wiping (WP 0064, Item 12)

References

WP 0005, WP 0006, WP 0007, WP 0015,
WP 0016, WP 0018, WP 0019, WP 0020,
WP 0021, WP 0022, WP 0023, WP 0024
WP 0025, WP 0031, WP 0032, WP 0033,
WP 0034, WP 0035

Equipment Condition

Shelter either deployed or struck

SERVICE

1. Using warm, soapy, water and rags clean the main body skin as needed to remove dirt or other debris (Figure 1).



Figure 1. Main Body Skin

2. Dry the main body skin completely.

END OF TASK

REPAIR**Repair of the Main Body Skin with a Temporary Patch****NOTE**

Removal of assemblies attached to the main body skin may be more easily performed after relaxing (but not removing) external tension.

The main body skin (Figure 2) can be repaired with the tent deployed, but components in the vicinity of the damage may need to be removed, to safely repair the main body skin.

A step aid may be required to detach components from the main body skin.



Figure 2. Main Body Skin.

1. If necessary, relax TEMPER, Air-Supported external tension IAW WP 0007.
2. If necessary, perform the removal sequence of the replace procedure for any components attached on the exterior or interior near the damaged area of the main body skin:
 - a. Power Distribution Assemblies - WP 0006.
 - b. Lighting Assemblies - WP 0006.
 - c. Plenum - WP 0023.
 - d. Liner End Section - WP 0021.
 - e. Main Liner - WP 0022.
 - f. Shelter Support Ropes - WP 0020.
 - g. Window Panels - WP 0015.

REPAIR - CONTINUED**NOTE**

The repair kit contains temporary self-stick adhesive patches for shelter skin, floor, and liner patches. The procedures are identical for all main body skin materials.

3. With a brush and warm, soapy water, remove any surface dirt or debris from the damaged area. Allow the area to dry thoroughly.
4. Trim any frayed edges or torn fabric to prepare a neat, clean edged area for adhesive patching.

NOTE

Rounding the corners on an adhesive patch generally yield better long term results.

5. Measure the height and width of the damaged area, and cut a piece of temporary self-stick adhesive patching material to extend and overlap beyond the damaged area 1-inch in all directions (Figure 3). Round the corners of the temporary patch.



Figure 3. Measure and Cut Temporary Patch.

REPAIR - CONTINUED

6. With an alcohol prep pad, scrub the area where the adhesive patch will be applied (Figure 4). Allow area to dry before applying patch.



Figure 4. Prepare Adhesive Patch Area.

7. Peel the backing paper (Figure 5, Item 1) from the adhesive patch (Figure 5, Item 2), and apply the adhesive patch to the damaged area.

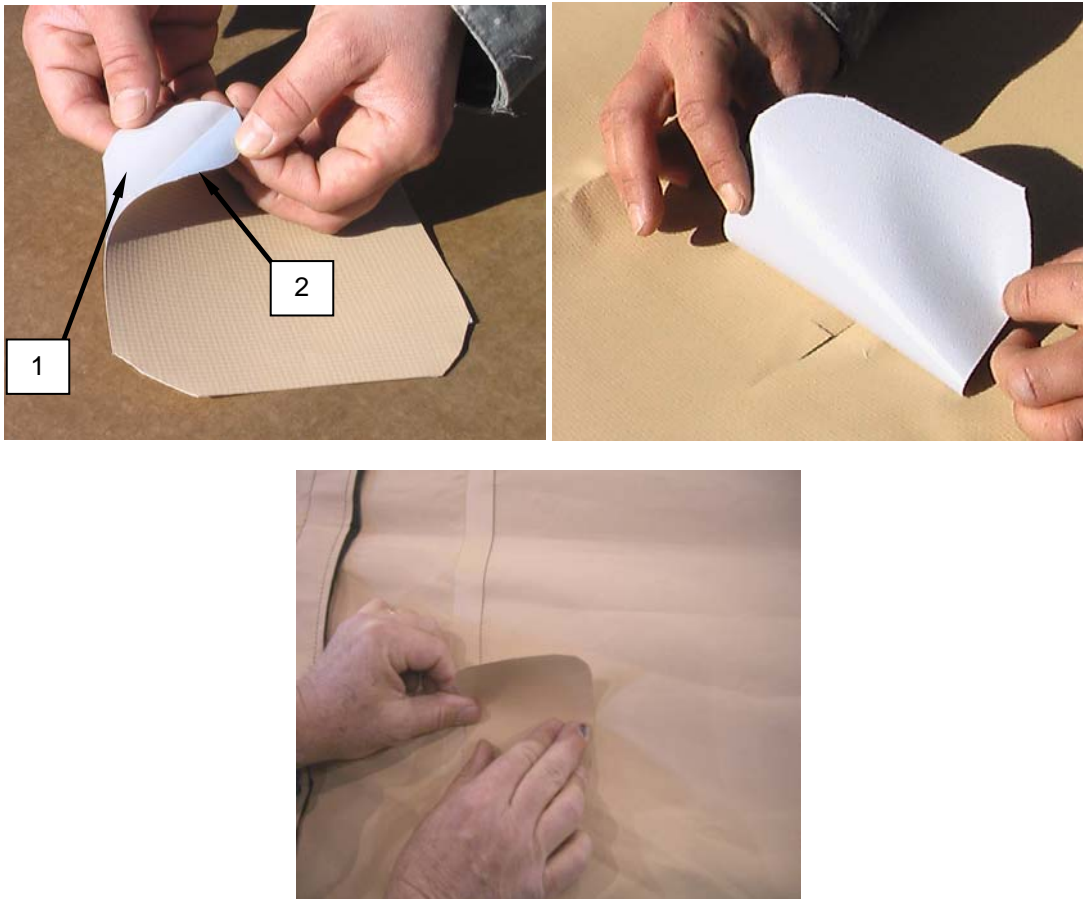


Figure 5. Apply Temporary Patch.

REPAIR - CONTINUED

8. Working from the center of the temporary patch outwards, press firmly, working any folds or air pockets out of the patch area (Figure 6).

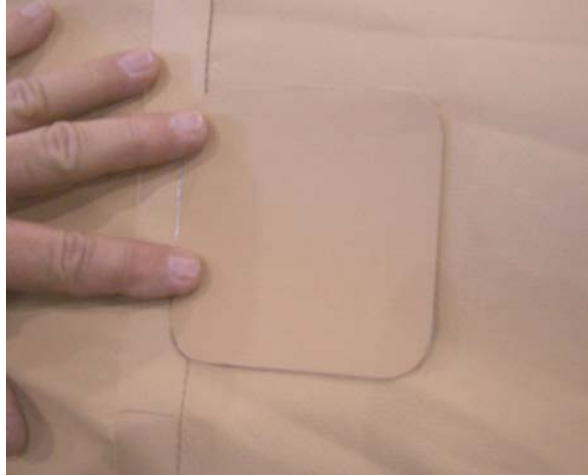


Figure 6. Completed Temporary Patch.

9. If removed during the repair, perform the installation sequence of the replace procedure for any components removed near the repaired area:
 - a. Window Panels - WP 0015.
 - b. Shelter Support Ropes - WP 0020.
 - c. Main Liner - WP 0022.
 - d. Liner End Section - WP 0021.
 - e. Plenum - WP 0023.
 - f. Lighting Assemblies - WP 0006.
 - g. Power Distribution Assemblies - WP 0006.
10. If necessary, check and restore TEMPER, Air-Supported external tension IAW WP 0005.
11. Allow 30 minutes for the temporary patch adhesive material to cure and dry completely.

END OF TASK

REPAIR - CONTINUED**Repair of the Main Body Skin with a Permanent Patch****NOTE**

The repair patch kit provided with the TEMPER, Air-Supported contains patch materials for the main body skin, floor and liner patches. The patch procedures are identical for all of the main body skin materials.

1. With a brush and warm, soapy water, remove any surface dirt or debris from the damaged area. Allow the area to dry thoroughly.
2. Trim any frays or torn fabric to prepare a neat, clean edged area for patching.

NOTE

Rounded corners on a patch generally yield better long term results.

3. Measure the height and width of the damaged area, and cut a piece of patching material to extend and overlap beyond the damaged area 1-inch in all directions (Figure 7). Round the corners of the patching material.



Figure 7. Measure and Cut Patch Material.

REPAIR - CONTINUED

- Using an alcohol prep pad, clean the area where the adhesive patch will be applied (Figure 8).



Figure 8. Preparing Damaged Area with Alcohol Prep Pad.

- Using an alcohol prep pad, clean the side of the patch that will come in contact with the damaged main body skin (Figure 9).

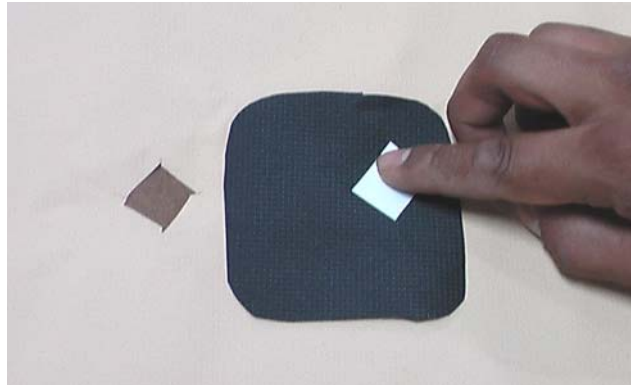


Figure 9. Preparing Patch with Alcohol Prep Pad.

- Place the prepared patch in position over the damaged area and trace around the patch perimeter with a pencil (Figure 10).



Figure 10. Trace Patch Perimeter with Pencil.

REPAIR - CONTINUED

WARNING

HH-66 Vinyl Cement is highly combustible, DO NOT use near an open flame or spark. Use only in a well ventilated area as the chemical vapors are hazardous. Be sure to protect yourself with gloves and goggles and avoid skin and eye contact. If your skin should come in contact with the vinyl cement, flush the area with water and seek medical attention. Failure to adhere to these warnings may result in injury or death.

7. Remove the patch and apply adhesive to the damaged area, going just beyond the patch perimeter previously marked (Figure 11).



Figure 11. Apply Adhesive to Damaged Area.

8. Place the patch on a suitable work surface and apply adhesive to the side of the patch that will come in contact with the damaged area (Figure 12).



Figure 12. Apply Adhesive to Patch.

9. Wait approximately 2 - 5 minutes until the adhesive that was applied to the damaged area, and the patch is tacky and does not cling to the finger if touched.

REPAIR - CONTINUED**CAUTION**

The adhesive used to apply the permanent patch is a contact adhesive. Be sure to align the patch over the damaged area before coming in contact with the damaged area. Once the patch comes in contact with the main body skin, it cannot easily be removed and can result in additional damage if repositioning is necessary.

10. Apply the patch to the damaged area of the end section by aligning one edge with the pencil line made earlier on the damaged area (Figure 13). Carefully roll the patch over the damaged area to prevent wrinkles or bubbles under the patch. Apply additional adhesive if necessary to areas under the patch that are not bonded to the damaged area. Allow the adhesive to dry to a light tack before pressing into position.



Figure 13. Apply Patch to Damaged Area.

11. Once the patch has been completely applied to the damaged area, press firmly with fingers, working from the center of the permanent patch outwards ensuring that any folds or air pockets have been worked out of the patch area.



Figure 14. Remove Air Pockets from Patch.

REPAIR - CONTINUED

12. Repeat Steps 1 through 11 and apply a permanent patch over the damaged area on the interior of the shelter (Figure 15).



Figure 15. Applying Permanent Patch.

13. If removed during the repair, perform the installation sequence of the replace procedure for any components removed near the repaired area:
- Main Liner - WP 0022.
 - Liner End Section - WP 0021.
 - Lighting Assemblies - WP 0006.
 - Power Distribution Assemblies - WP 0006.
14. Allow 30 minutes for the permanent patch adhesive material to cure and dry completely.

END OF TASK

REPLACE

Replace consists of removing attached components from an unserviceable main body skin and installing components to a replacement main body skin.

Remove**NOTE**

This procedure sequentially references the Work Packages for all shelter components attached to the main body skin. This method ensures that, during main body skin replacement, all components are removed in the correct sequence.

Removal of any assemblies that are attached to the main body skin are more easily performed after relaxing (but not removing) external tension.

1. Remove the following interior TEMPER, Air-Supported assemblies:
 - a. Remove all power distribution kit assemblies IAW WP 0007 paragraph 'Remove Power Distribution and Lighting Kits.'
 - b. Remove the main liner IAW WP 0022 paragraph 'Remove the Main Liner.'
2. Remove the vestibule assembly IAW WP 0031 paragraph 'Remove the Vestibule Assembly.'
3. Remove both end sections IAW WP 0016 paragraph 'Remove End Section.'
4. Remove the manifold assembly IAW WP 0025 paragraph 'Remove Inflation Manifold.'
5. Remove the inner airbeam assemblies IAW WP 0024.
6. The TEMPER, Air-Supported tent must be struck IAW WP 0007.
7. Remove the outer airbeam assemblies IAW WP 0024.
8. Remove all exterior TEMPER, Air-Supported assemblies:
 - a. If necessary, remove all clear window panels IAW WP 0015.
 - b. If necessary, remove all shelter support ropes IAW WP 0020.
 - c. Remove all 18 inch tent pins IAW WP 0018.
 - d. Remove all 36 inch tent pins IAW WP 0019.
 - e. Remove upper ratchet snow strap assemblies IAW WP 0035.
 - f. Remove upper ratchet external bracing assemblies IAW WP 0032.
 - g. Remove lower ratchet external bracing assemblies IAW WP 0033.
 - h. At each non-ratchet bottom corner of the shelter, disconnect the fixed external bracing strap carabiners from the loops on the shelter outer main skin, and remove fixed external bracing assemblies IAW WP 0034.
 - i. Fold and prepare the removed main body skin for shipment IAW WP 0007.

END OF TASK

REPLACE - CONTINUED**Install****NOTE**

This procedure sequentially references the installation Work Packages for all shelter components attached to the main body skin. This method ensures that, during main body skin replacement, all components are installed in the correct sequence.

1. Position, unroll and unfold the new replacement main body skin IAW WP 0005.
2. Install fixed external bracing assemblies IAW WP 0034.
3. Install lower ratchet external bracing assemblies IAW WP 0033.
4. Install upper ratchet external bracing assemblies IAW WP 0032.
5. Install upper ratchet snow strap assemblies IAW WP 0035.
6. Install all shelter support ropes IAW WP 0020.
7. Install all clear window panels IAW WP 0015.
8. Install the manifold assembly IAW WP 0025.
9. Install the airbeam assemblies IAW WP 0024.

NOTE

Installation of TEMPER, Air-Supported assemblies is most easily performed with the external tension relaxed prior to installation. When inflating the shelter as part of this main body skin replacement procedure, do not fully tighten the external tensioning.

10. Inflate the TEMPER, Air-Supported IAW WP 0005.
11. Install both end sections IAW WP 0016 paragraph 'Install End Section'.
12. Install the vestibule assembly IAW WP 0031 paragraph 'Install Vestibule Assembly'.
13. Install the main liner IAW WP 0022 paragraph 'Install Main Liner'.
14. If necessary, install both liner end sections IAW WP 0021.
15. Install the power distribution and lighting kits IAW WP 0006.
16. Check and set external tension on the TEMPER, Air-Supported IAW WP 0005.

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE**18-INCH TENT PIN
SERVICE, REPLACE**

INITIAL SETUP:**Tools and Special Tools**

Hammer, Sledge (WP 0065, Item 1)

Personnel Required

Non-MOS Specific (1)

Materials/Parts

Brush, Wire, Stainless (WP 0064, Item 4)

Equipment ConditionShelter deployed or struck

SERVICE**NOTE**

18-inch tent pins are a general purpose item. Eight 18-inch tent pins are provided with the four airbeam TEMPER, Air-Supported shelter configuration.

1. To clean the 18-inch tent pin, using a wire brush, brush the 18-inch tent pin to remove dirt, rust, debris or burrs (Figure 1).



Figure 1. Clean 18-Inch Tent Pin.

2. Return the 18-inch tent pin to its original location.

END OF TASK

REPLACE**NOTE**

18-inch tent pins are a general purpose item. Eight 18-inch tent pins are provided with the four airbeam TEMPER, Air-Supported shelter configuration.

1. To replace the 18-inch tent pin, remove the 18-inch tent pin (Figure 2).



Figure 2. 18-Inch Tent Pin.

2. With a sledge hammer, place the new 18-inch tent pin (Figure 2) in the location of the removed tent pin.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE**36-INCH TENT PIN
SERVICE, REPLACE**

INITIAL SETUP:**Tools and Special Tools**

Hammer, Sledge (WP 0065, Item 1)
Tool Kit, General Mechanics (WP 0065, Item 4)
Tool, Stake Removal (WP 0065, Item 5)

Personnel Required

Non MOS Specific (1)

References

WP 0007

Materials/Parts

Brush, Wire, Stainless (WP 0064, Item 4)

Equipment Condition

Shelter struck or tent pin is free of the ground

SERVICE

1. With a wire brush, brush the 36-inch tent pin to remove dirt, rust, debris or burrs (Figure 1).



Figure 1. Clean 36-Inch Tent Pin.

2. Return the 36-inch tent pin to its original location.

END OF TASK

REPLACE**WARNING**

The TEMPER, Air-Supported shelter has electrical power dangerous to life. Prior to servicing a 36-inch tent pin, electrical power must be de-energized IAW WP 0007. Failure to do so can cause death or serious injury by electrocution.

1. Qualified personnel disconnect electrical power to the TEMPER, Air-Supported shelter IAW WP 0007.

WARNING

The TEMPER, Air-Supported shelter is under external bracing tension. Prior to servicing a 36-inch tent pin, external bracing tension must be relaxed IAW WP 0007. Failure to do so can result in personnel injury or damage to equipment.

2. Relax external bracing tension to the TEMPER, Air-Supported shelter IAW WP 0007.
 - a. At the shelter side ropes, slacken the side rope by relaxing the plastic tent slip (Figure 2, Item 1). Repeat for all side ropes.



Figure 2. Relax Side Rope Tent Slips.

- b. At the vestibule guy lines, slacken the guy line by relaxing the plastic tent slip (Figure 2, Item 1). Repeat for all vestibule guy lines.

REPLACE - CONTINUED

WARNING



Bracing straps under tension can release with great force and pose a pinch hazard when slackened at the tensioning ratchets. Keep fingers and clothing clear of tensioning ratchets when slacking bracing straps. Failure to do so could result in injury to personnel.

- c. At the ratchet end of the shelter, slack all snow straps and all external bracing straps at the tensioning ratchets (Figure 3, Item 1), by pulling in the tension release handle of the tensioning ratchet (Figure 3, Item 2).

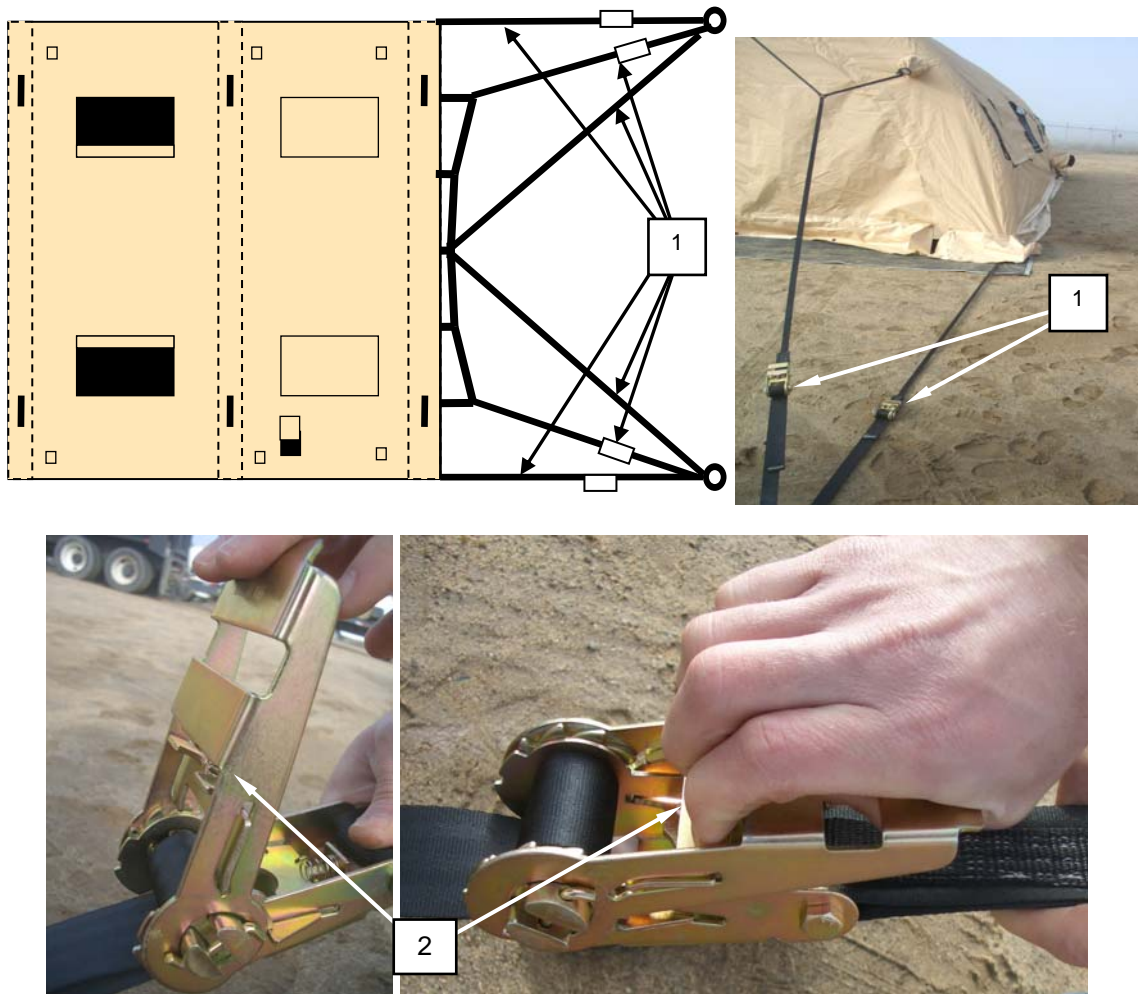


Figure 3. Slacken External Bracing Straps.

REPLACE - CONTINUED

CAUTION

Ensure that the order of external bracing strap rings attached to the tent pin is maintained when removing the tent pin from the ground, and when removing the strap rings from the stake. Failure to do so can result in damage to equipment during reinstallation.

NOTE

Use the stake removal tool to lift 36-inch tent pins from the ground.

3. Using the stake removal tool (Figure 4, Item 1), and suitable lifting equipment, remove the 36-inch tent pin (Figure 4, Item 2) from the ground.



Figure 4. Stake Removal Tool.

REPLACE - CONTINUED

4. Remove all external bracing strap rings from the 36-inch tent pin (Figure 5, Item 2).
5. Reconnect external bracing strap rings (Figure 5, Item 1) to the new 36-inch tent pin (Figure 5, Item 2) in the order removed in Step 4.

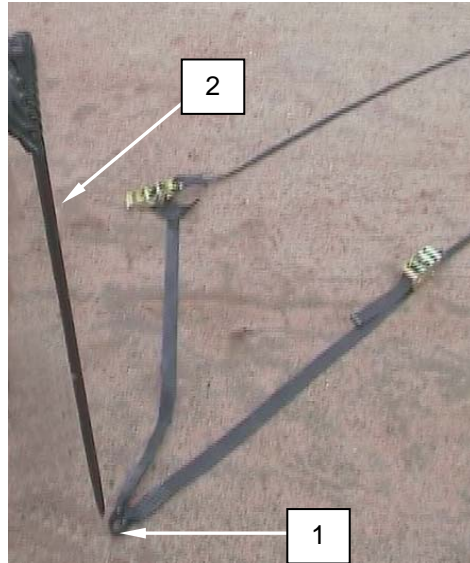


Figure 5. Position Bracing Strap End Rings.

6. With a sledge hammer, drive the replacement 36-inch tent pin (Figure 6, Item 2) into proper location.



Figure 6. Position Bracing Strap End Rings.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE**SHELTER SUPPORT ROPE
SERVICE, REPLACE**

INITIAL SETUP:**Tools and Special Tools**

Knife, Utility (WP 0065, Item 2)

Personnel Required

Non-MOS Specific (1)

Materials/Parts

Detergent, General Purpose (WP 0064, Item 7)

References

WP 0005

Equipment ConditionShelter either deployed or struck

SERVICE

Clean the component as needed to remove dirt or other debris. Use warm, soapy water. Dry the component completely.

END OF TASK**REPLACE**

1. Remove tension from the shelter support rope (Figure 1, Item 1) by relaxing the plastic tent slip (Figure 1, Item 2).
2. Remove the looped end of the side rope from the 18 inch tent pin (Figure 1, Item 3).

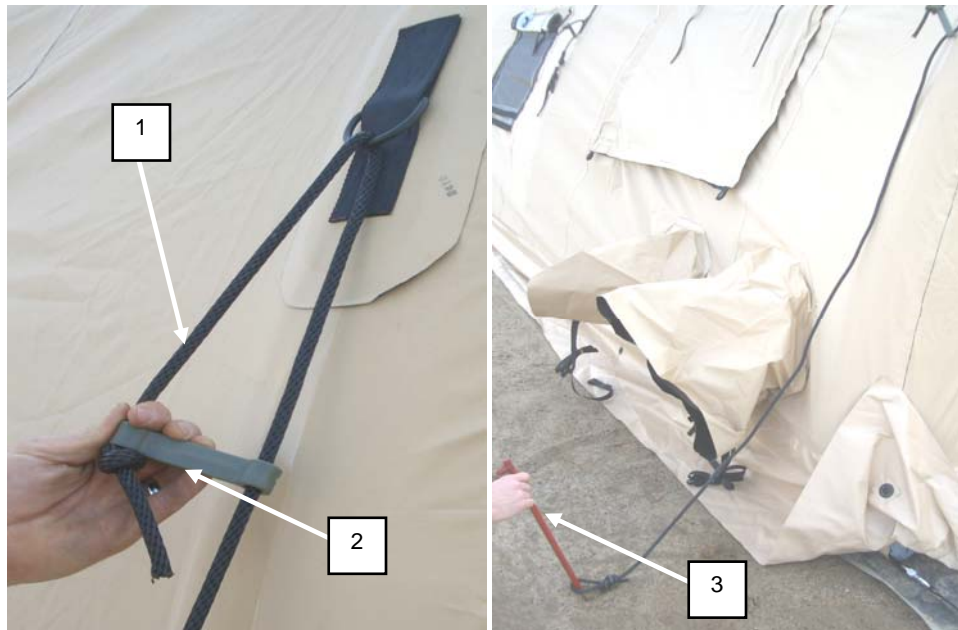


Figure 1. Remove Rope from 18 Inch Tent Pin.

REPLACE - CONTINUED

3. At the plastic tent slip (Figure 2, Item 1), using a utility knife, cut and remove the securing knot (Figure 2, Item 2) from the shelter support rope.

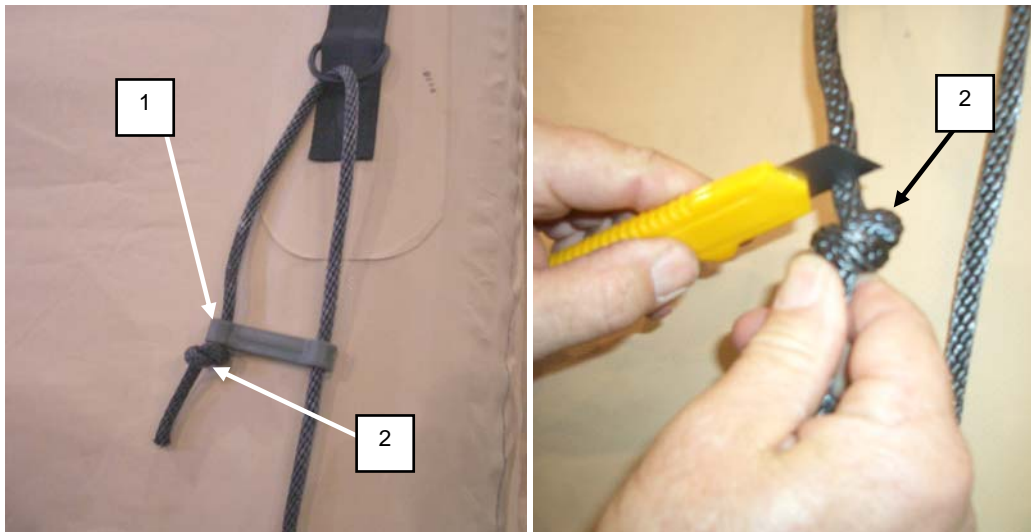


Figure 2. Cut and Remove Side Rope Securing Knot.

4. Thread the free end (Figure 3 Item 1) of the shelter support rope up through the plastic tent slip (Figure 3 Item 2), and through the attaching D-Ring (Figure 3 Item 3) on the outer tent skin.

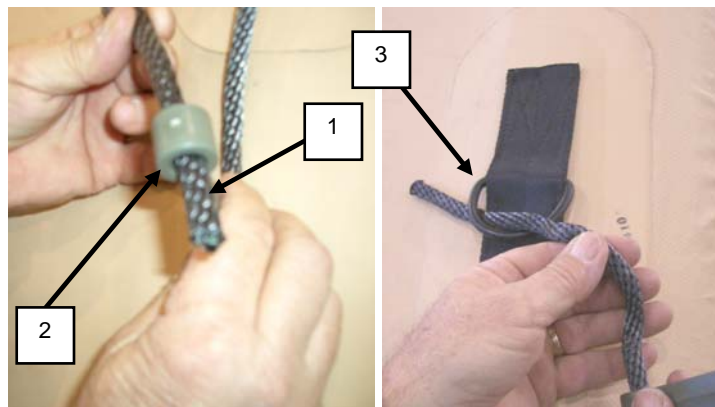


Figure 3. Remove Side Rope from D-Ring.

5. Retain the plastic tent slip for reuse with the new shelter support rope. Discard the removed shelter support rope.

REPLACE - CONTINUED

6. Thread the free end of the new shelter support rope (Figure 4 Item 1) up through one side of the plastic tent slip (Figure 4, Item 2), then down through the attaching D-Ring (Figure 4 Item 3) on the outer tent skin, and back down through the other side of the plastic tent slip (Figure 4 Item 2).

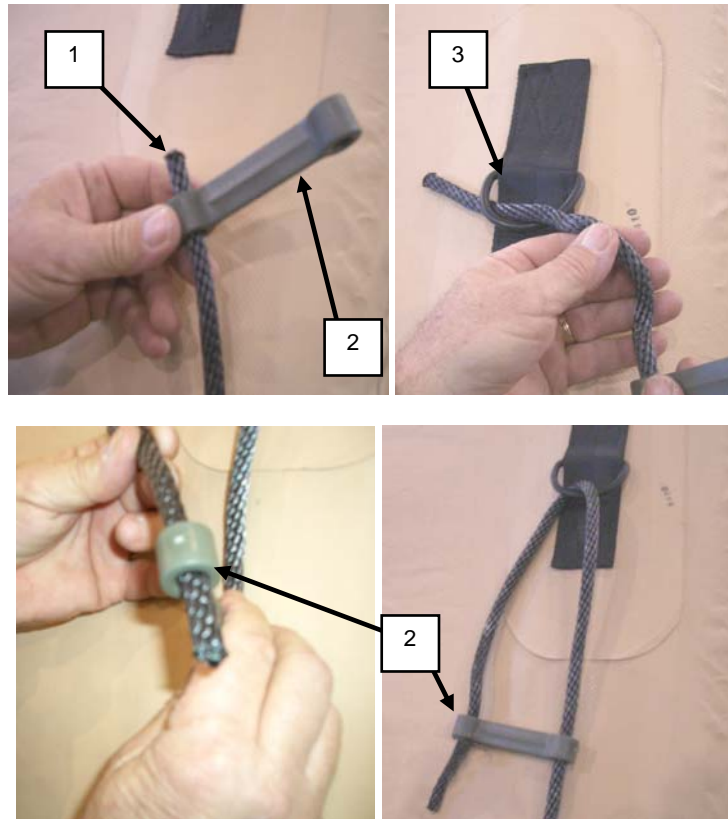


Figure 4. Thread New Shelter Support Rope through D-Ring.

REPLACE - CONTINUED

7. In the free end of the shelter support rope (Figure 5 Item 1), tie an overhand knot (Figure 5, Item 2) to secure the rope.

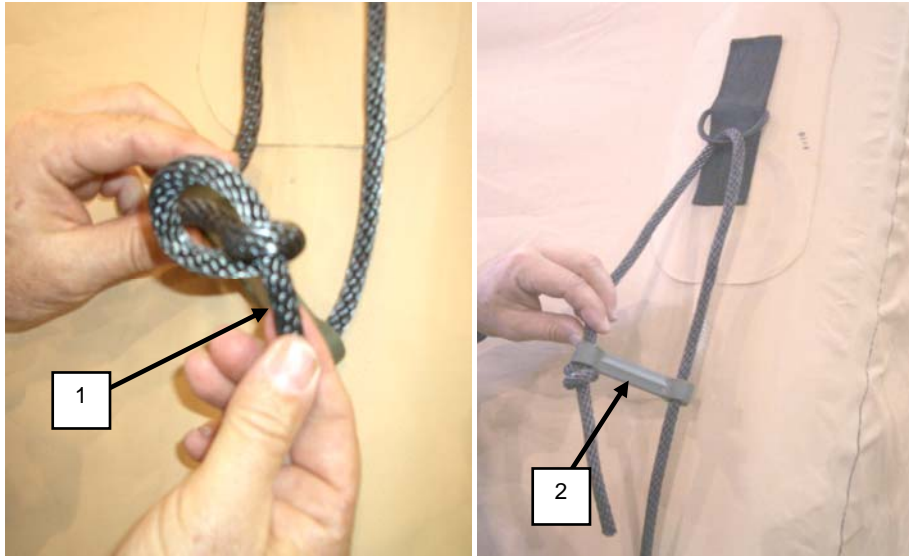


Figure 5. Tie Overhand Knot to Secure Shelter Support Rope.

8. Attach Shelter Support Rope IAW WP 0005.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
LINER END SECTION
SERVICE, REPAIR, REPLACE

INITIAL SETUP:**Tools and Special Tools**

Knife, Utility (WP 0065, Item 2)
 Tape, Measuring (WP 0065, Item 3)

Personnel Required

Non-MOS Specific (1)

Materials/Parts

Adhesive (WP 0064, Item 1)
 Brush, Acid Swabbing (WP 0064, Item 2)
 Brush, Scrub (WP 0064, Item 3)
 Paper Cup (WP 0064, Item 6)
 Detergent, General Purpose (WP 0064, Item 7)
 Gloves Chemical (WP 0064, Item 8)
 Goggles (WP 0064, Item 9)
 Paper Plate (WP 0064, Item 11)
 Rag, Wiping (WP 0064, Item 12)

References

WP 0006, WP 0007, WP 0023

Equipment Condition

Shelter deployed or struck

SERVICE

1. Using warm, soapy water and a rag, clean the liner end section (Figure 1, Item 1) as needed to remove dirt or other debris.

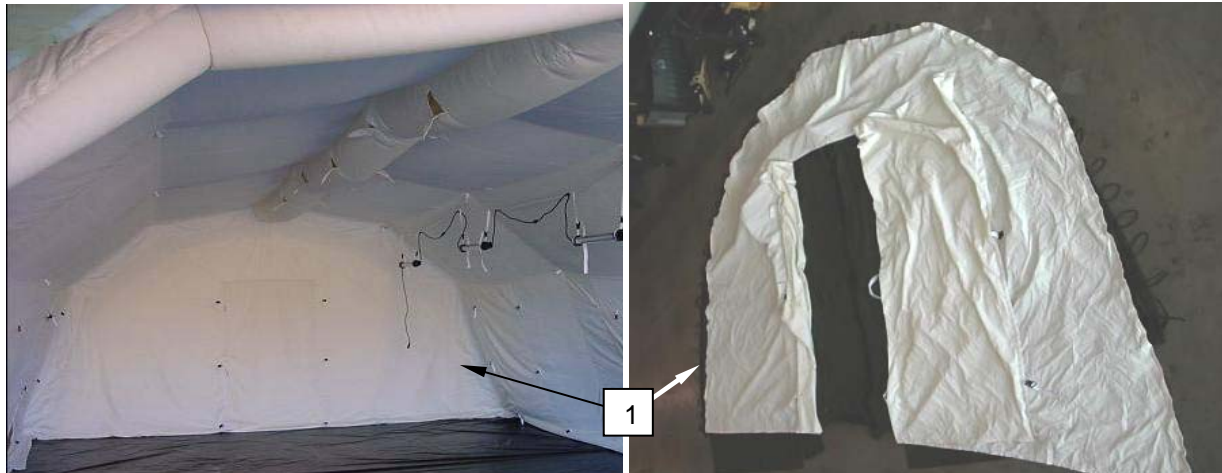


Figure 1. Liner End Section.

2. Dry the liner end section completely.

END OF TASK

REPAIR**Repair Liner End Section with a Temporary Patch****NOTE**

The liner end section can be repaired with the tent deployed, but all attached components in the vicinity of the damage must be removed, to safely repair the liner end section.

A step aid may be required to detach Power Distribution or Lighting components attached to the liner end section.

3. Detach any power distribution or lighting components from the main liner that are in the vicinity of the damaged area of the liner end section IAW WP 0007.
4. If necessary, detach the plenum from the main liner or liner end section IAW WP 0023.

NOTE

The liner end section is attached to the main liner, airbeams, and TEMPER Air-Supported end section with hook and pile tape fastening straps that are affixed to the liner end section. Detach enough of the liner end section sufficient to lower and isolate the damaged area onto a suitable work surface to effect repairs.

5. Remove enough of the liner end section hook and pile tape fastening straps (Figure 2, Item 1) from the strap loops on the airbeams to lower and place the damaged liner end section area onto a suitable work surface.

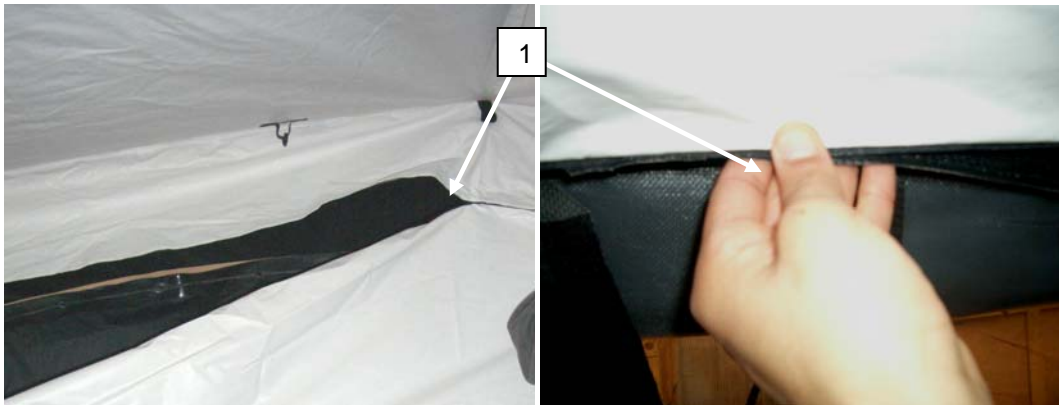


Figure 2. Detach Liner End Section from Main Liner.

6. With a brush and warm, soapy water, remove any surface dirt or debris from the damaged area. Allow the area to dry thoroughly.
7. Trim any frays or torn fabric to prepare a neat, clean edged area for adhesive patching.

REPAIR - CONTINUED**NOTE**

Rounded corners on an adhesive patch generally yield better long term results.

8. Measure the height and width of the damaged area, and cut a piece of temporary self-stick adhesive patching material to extend and overlap beyond the damaged area 1-inch in all directions (Figure 3). Round the corners of the temporary patch.



Figure 3. Measure and Cut Temporary Patch.

9. With an alcohol prep pad, scrub the area where the adhesive patch will be applied (Figure 4). Allow area to dry before applying patch.



Figure 4. Prepare Adhesive Patch Area.

REPAIR - CONTINUED

10. Peel the backing paper (Figure 5, Item 1) from the adhesive patch (Figure 5, Item 2), and apply the adhesive patch to the damaged area.

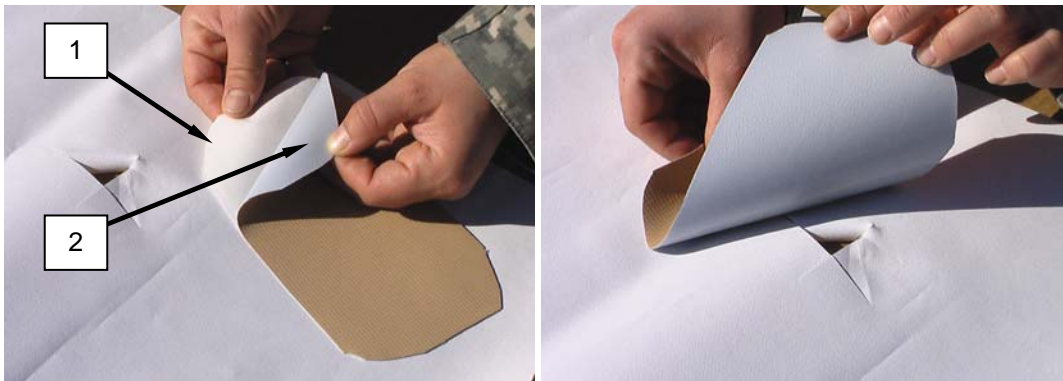


Figure 5. Apply Temporary Patch.

11. Working from the center of the temporary patch outwards, press firmly, working any folds or air pockets out of the patch area (Figure 6).



Figure 6. Completed Temporary Patch.

12. Allow 30 minutes for the temporary patch adhesive material to cure and dry completely.
13. If removed during the repair, perform the Installation sequence of the Replace procedure for any components removed near the repaired area:
- a. Plenum - WP 0023.
 - a. Lighting Assemblies - WP 0006.
 - b. Power Distribution Assemblies - WP 0006.

END OF TASK

REPAIR - CONTINUED**Repair of the Liner End Section with a Permanent Patch****NOTE**

The repair kit contains patch materials for exterior, floor and liner patches. The patch procedures are identical for all of the end section materials.

The liner end section can be repaired with the tent deployed, but all attached components in the vicinity of the damage must be removed, to safely repair the liner end section.

A step aid may be required to detach Power Distribution or Lighting components attached to the liner end section.

1. Detach any power distribution or lighting components from the main liner that are in the vicinity of the damaged area of the liner end section IAW WP 0007.
2. If necessary, detach the plenum from the main liner or liner end section IAW WP 0023.

NOTE

The liner end section is attached to the main liner, airbeams, and TEMPER Air-Supported end section with hook and pile tape fastening straps that are affixed to the liner end section. Detach enough of the liner end section sufficient to lower and isolate the damaged area onto a suitable work surface to effect repairs.

3. Remove enough of the liner end section hook and pile tape fastening straps (Figure 7, Item 1) from the strap loops on the airbeams to lower and place the damaged liner end section area onto a suitable work surface.

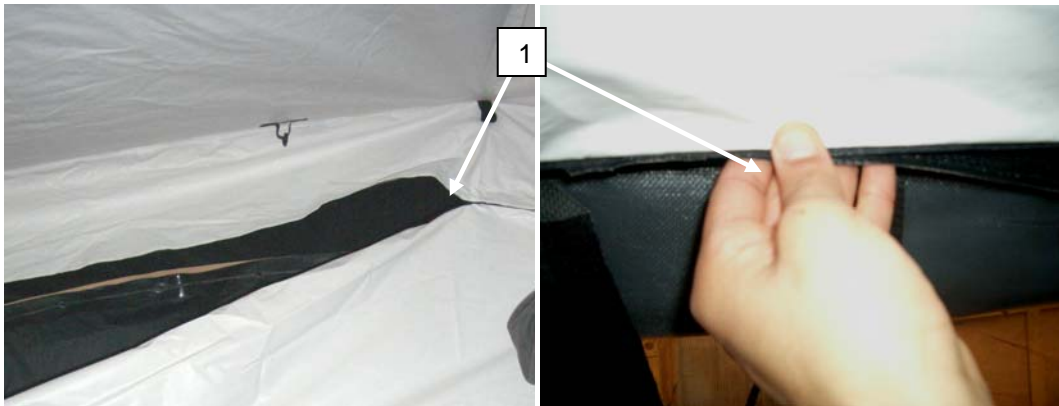


Figure 7. Detach Liner End Section from Main Liner.

4. With a brush and warm, soapy water, remove any surface dirt or debris from the damaged area. Allow the area to dry thoroughly.
5. Trim any frays or torn fabric to prepare a neat, clean edged area for patching.

REPAIR - CONTINUED**NOTE**

Rounded corners on a patch generally yield better long term results.

6. Measure the height and width of the damaged area, and cut a piece of patching material to extend and overlap beyond the damaged area 1-inch in all directions (Figure 8). Round the corners of the patch.



Figure 8. Measure and Cut Patch Material.

7. Using an alcohol prep pad, clean the area where the patch will be applied (Figure 9).



Figure 9. Prepare Adhesive Patch Area.

REPAIR - CONTINUED

- Using an alcohol prep pad, clean the side of the patch that will come in contact with the damaged end section (Figure 10).

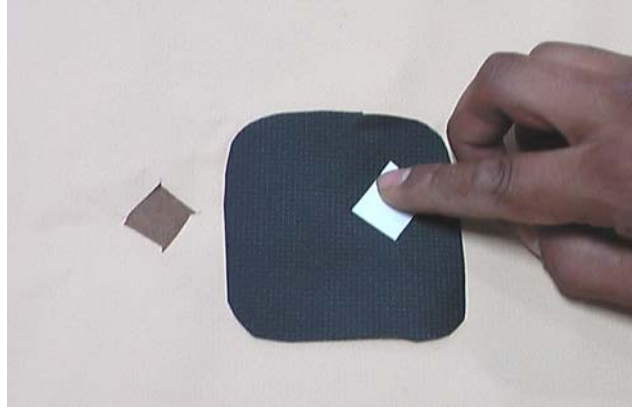


Figure 10. Preparing Patch with Alcohol Prep Pad.

- Place the prepared patch in position over the damaged area and trace around the patch perimeter with a pencil (Figure 11).

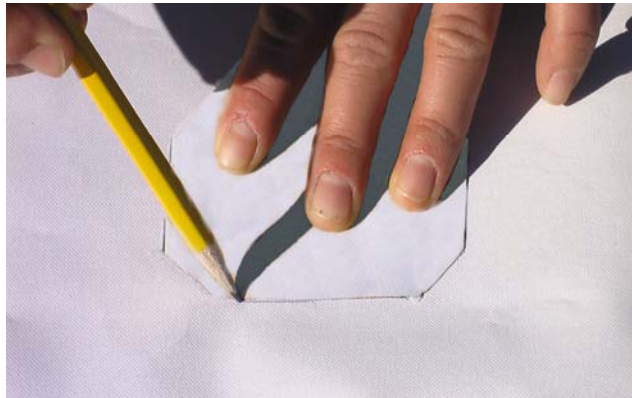


Figure 11. Trace Patch Perimeter with Pencil.

REPAIR - CONTINUED

WARNING

HH-66 Vinyl Cement is highly combustible, DO NOT use near an open flame or spark. Use only in a well ventilated area as the chemical vapors are hazardous. Be sure to protect yourself with gloves and goggles and avoid skin and eye contact. If your skin should come in contact with the vinyl cement, flush the area with water and seek medical attention. Failure to adhere to these warnings may result in injury or death.

10. Remove the patch and apply adhesive to the damaged area of the end section going just beyond the patch perimeter previously marked (Figure 12).

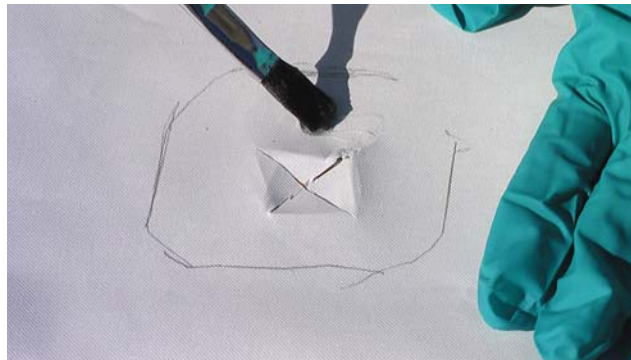


Figure 12. Apply Adhesive to Damaged Area.

11. Place the patch on a suitable work surface and apply adhesive to the side of the patch that will come in contact with the damaged area (Figure 13).

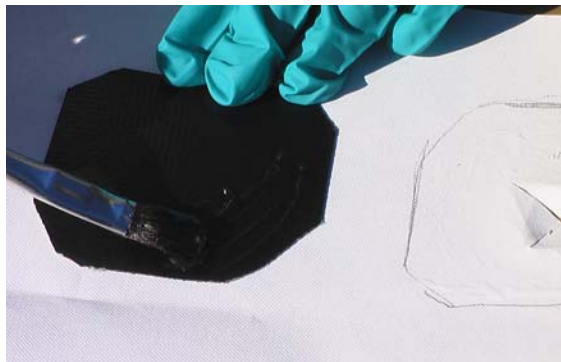


Figure 13. Apply Adhesive to Patch.

12. Wait approximately 2 - 5 minutes until the adhesive that was applied to the damaged end section and the patch is tacky and does not cling to the finger if touched.

REPAIR - CONTINUED**CAUTION**

The adhesive used to apply the permanent patch is a contact adhesive. Be sure to align the patch over the damaged area before coming in contact with the damaged area. Once the patch comes in contact with the end section it cannot easily be removed and can result in additional damage if repositioning is necessary.

13. Apply the patch to the damaged area by aligning one edge with the pencil line made earlier on the damaged area (Figure 14). Carefully roll the patch over the damaged area to prevent wrinkles or bubbles under the patch. Apply additional adhesive if necessary to areas under the patch that are not bonded to the damaged area. Allow the adhesive to dry to a light tack before pressing into position.

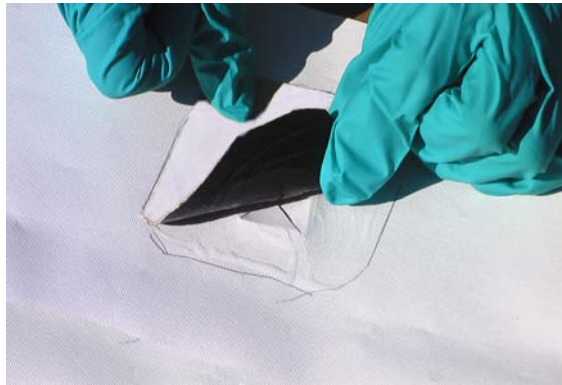


Figure 14. Apply Patch to Damaged Area.

14. Once the patch has been completely applied to the damaged area, press firmly with fingers, working from the center of the permanent patch outwards ensuring that any folds or air pockets have been worked out of the patch area (Figure 15).



Figure 15. Remove Air Pockets from Patch.

REPAIR - CONTINUED

15. Repeat Steps 1 through 11 and apply a permanent patch over the damaged area on the other side of the liner end section material (Figure 16).

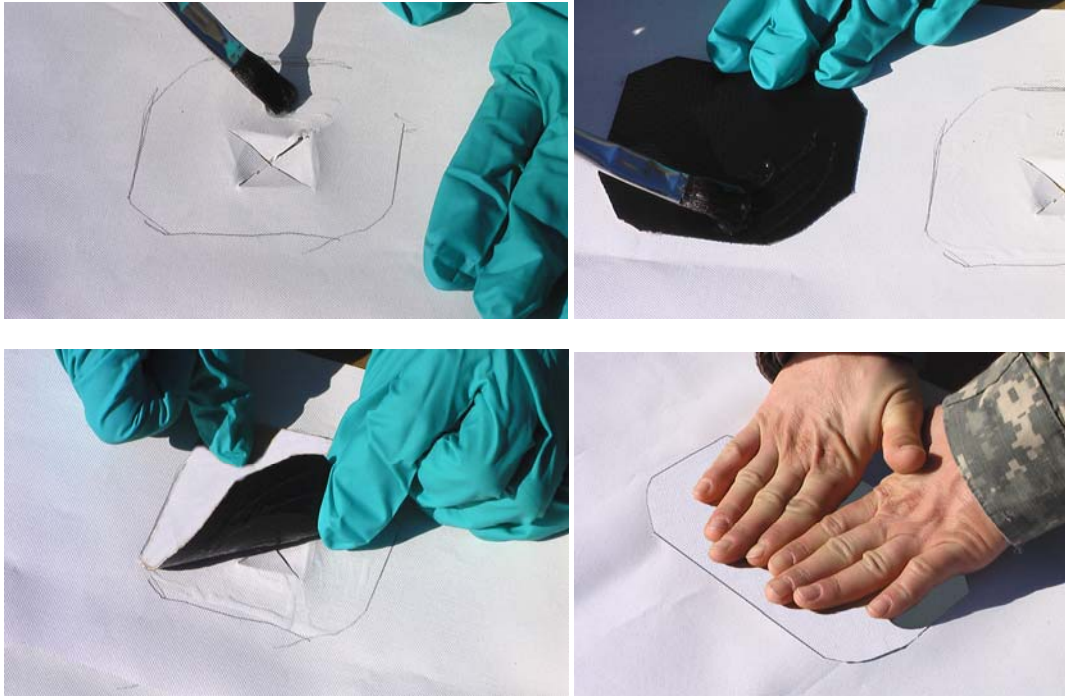


Figure 16. Applying Permanent Patch to Damaged Liner End Section.

16. If removed during the repair, perform the Installation sequence of the Replace procedure for any components removed near the repaired area:
- c. Plenum - WP 0023.
 - d. Lighting Assemblies - WP 0006.
 - e. Power Distribution Assemblies - WP 0006.
17. Allow 30 minutes for the temporary patch adhesive material to cure and dry completely.

END OF TASK

REPLACE**Remove TEMPER, Air-Supported Components from Liner End Section****NOTE**

The liner end section is most easily removed if the shelter main body skin is not completely tensioned.

1. If necessary, relax TEMPER, Air-Supported external tension IAW WP 0006.

NOTE

A step aid may be required to detach Power Distribution or Lighting components attached to the liner end section.

2. If necessary, remove any power distribution or lighting components that are attached to the liner end section IAW WP 0007.
3. Remove the plenum from the liner end section IAW WP 0023.

END OF TASK**Remove Liner End Section**

1. Detach the liner end section from the shelter doorway opening and main liner by peeling apart the hook and pile fastening tapes (Figure 17, Item 1) along the perimeter of the liner end section.



Figure 17. Remove Liner End Section.

2. Set aside the removed liner end section for repair or shipment.

END OF TASK

REPLACE - CONTINUED**Install Liner End Section****NOTE**

The liner end section is most easily attached if the shelter main body skin is not completely tensioned.

1. If necessary, relax (but do not remove) tension on the external bracing.
2. Spread the liner end section inside the shelter, with the hook and pile fastening strips down (Figure 18). Align the liner end section with the shelter end section and the airbeam assemblies.



Figure 18. Lay Out Liner End Section.

NOTE

A step aid may be required to attach the liner end section.

3. Starting at the top of the main liner from the shelter doorway, attach the liner end section to the main liner by pressing together the hook and pile fastening tapes (Figure 19, Item 1) along the perimeter of the liner end section and the doorway.

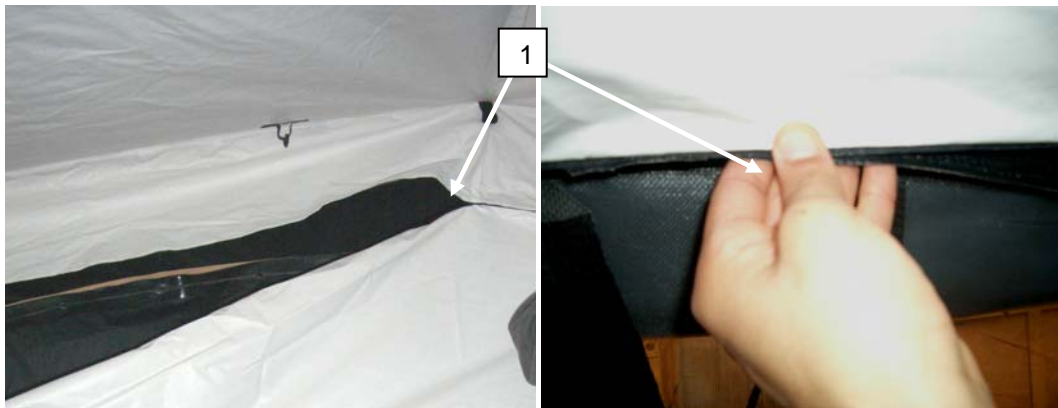


Figure 19. Attach Liner End Section Hook and Pile Fastening Tapes.

REPLACE - CONTINUED

4. Attach any components removed from the liner end section (Figure 20, Item 1), main liner or end panel during this installation.



Figure 20. Installed Liner End Section.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
MAIN LINER
SERVICE, REPAIR, REPLACE

INITIAL SETUP:**Tools and Special Tools**

Knife, Utility (WP 0065, Item 2)
Tape, Measuring (WP 0065, Item 6)

Personnel Required

Non-MOS Specific (2)

Materials/Parts

Adhesive (WP 0064, Item 1)
Brush, Acid Swabbing (WP 0064, Item 2)
Brush, Scrub (WP 0064, Item 3)
Paper Cup (WP 0064, Item 6)
Detergent, General Purpose (WP 0064, Item 7)
Gloves Chemical (WP 0064, Item 8)
Goggles (WP 0064, Item 9)
Lead, Pencil, Graphite (WP 0064, Item 10)
Paper Plate (WP 0064, Item 11)
Rag, Wiping (WP 0064, Item 12)

References

WP 0005, WP 0006, WP 0007, WP 0021
WP 0023

Equipment Condition

Shelter either deployed or struck

SERVICE

Clean the component as needed to remove dirt or other debris. Use warm, soapy water and a rag. Dry the component completely.

REPAIR**Repair Main Liner with a Temporary Patch****NOTE**

The main liner can be repaired with the tent deployed, but all attached components in the vicinity of the damage must be removed, to safely repair the main liner.

A step aid may be required to detach power distribution or lighting components attached to the main liner.

1. Detach power distribution or lighting components from the main liner IAW WP 0007.
2. If necessary, detach the plenum from the main liner and liner end section IAW WP 0023.
3. If necessary, detach the liner end section from the main liner IAW WP 0021.

REPAIR - CONTINUED**NOTE**

The main liner is attached to the shelter airbeams with hook and pile tape fastening straps that are affixed to the main liner. Detach enough of the main liner sufficient to lower and isolate the damaged area onto a suitable work surface to effect repairs.

The main liner adhesive patch area must remain undisturbed for 30 minutes for the adhesive to cure and dry completely. Select a suitable work area that will permit the patched section to remain undisturbed for suitable adhesive curing and drying time.

4. Remove enough of the main liner hook and pile tape fastening straps (Figure 1, Item 1) from the strap loops on the airbeams to lower and place the damaged liner area onto a suitable work surface.

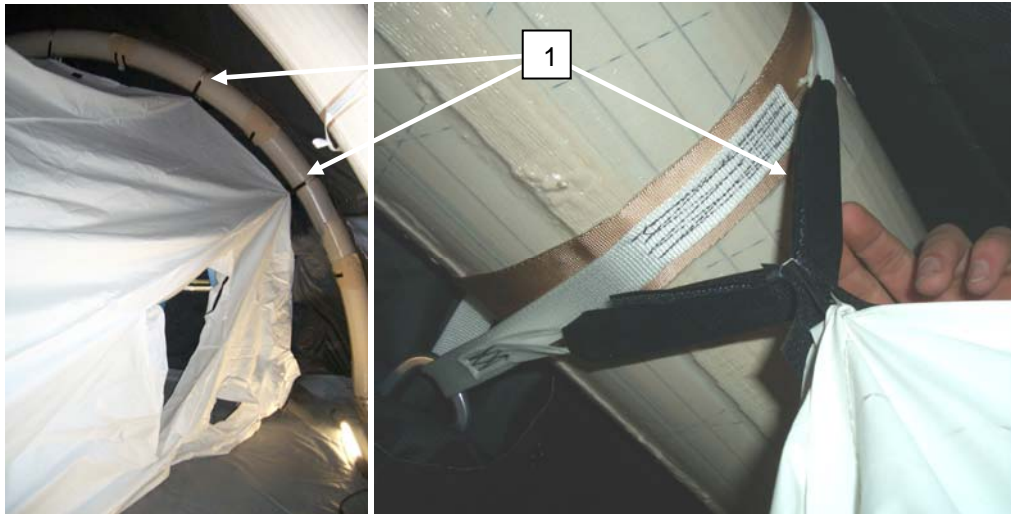


Figure 1. Detach Main Liner from Airbeams.

5. With a brush and warm, soapy water, remove any surface dirt or debris from the damaged area. Allow the area to dry thoroughly.
6. Trim any frays or torn fabric to prepare a neat, clean edged area for adhesive patching.

REPAIR - CONTINUED**NOTE**

Rounded corners on an adhesive patch generally yield better long term results.

7. Measure the height and width of the damaged area, and cut a piece of liner patching material to extend and overlap beyond the damaged area 1-inch in all directions (Figure 2). Round the corners of the patch.



Figure 2. Measure and Cut Patch.

8. With an alcohol prep pad, scrub the area where the adhesive patch will be applied (Figure 3).



Figure 3. Prepare Adhesive Patch Area.

REPAIR - CONTINUED

9. Peel the backing paper (Figure 4, Item 1) from the adhesive patch (Figure 4, Item 2), and apply the adhesive patch to the damaged area.

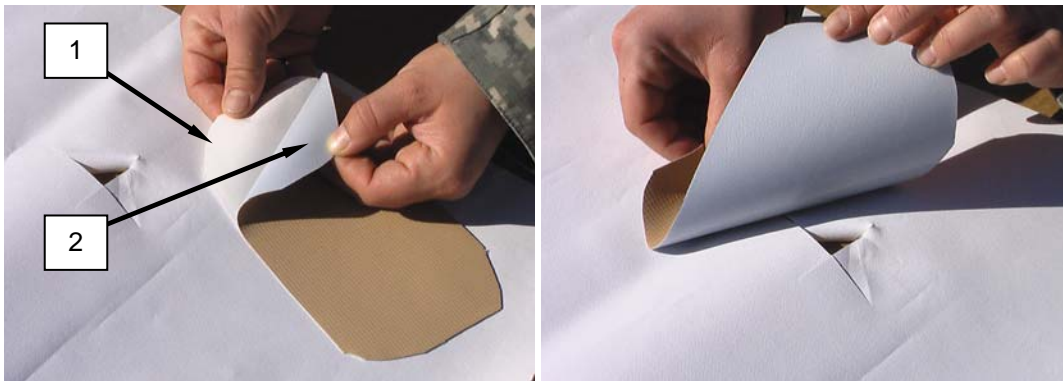


Figure 4. Apply Liner Patch.

10. Working from the center of the temporary patch outwards, press firmly, working any folds or air pockets out of the patch area (Figure 5).

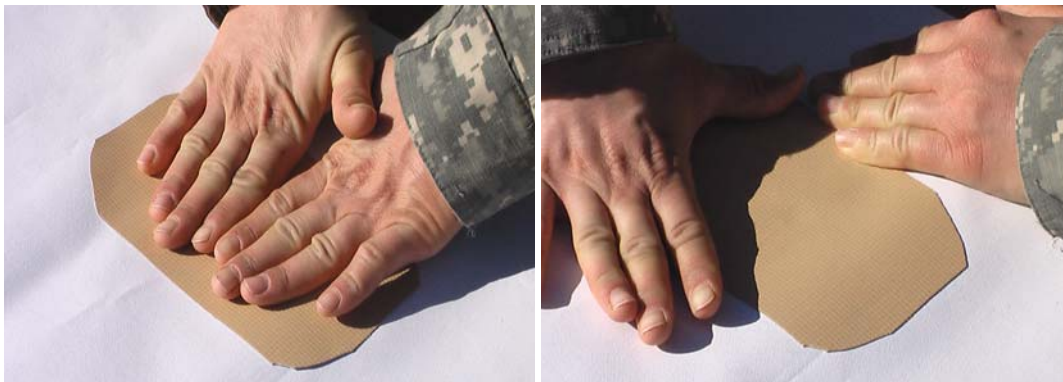


Figure 5. Main Liner Patch Repair.

11. Allow 30 minutes for the temporary patch adhesive material to cure and dry completely.
12. If removed during the repair, perform the Installation sequence of the Replace procedure for any components removed near the repaired area:
- Liner End Section - WP 0021.
 - Plenum - WP 0023.
 - Lighting Assemblies - WP 0006.
 - Power Distribution Assemblies - WP 0006.

END OF TASK

REPAIR - CONTINUED**Repair Main Liner with a Permanent Patch****NOTE**

The main liner can be repaired with the tent deployed, but all attached components in the vicinity of the damage must be removed, to safely repair the main liner.

A step aid may be required to detach power distribution or lighting components attached to the main liner.

1. Detach power distribution or lighting components from the main liner IAW WP 0007.
2. If necessary, detach the plenum from the main liner and liner end section IAW WP 0023.
3. If necessary, detach the liner end section from the main liner IAW WP 0021.

NOTE

The main liner is attached to the shelter airbeams with hook and pile tape fastening straps that are affixed to the main liner. Detach enough of the main liner sufficient to lower and isolate the damaged area onto a suitable work surface to effect repairs.

The main liner adhesive patch area must remain undisturbed for 30 minutes for the adhesive to cure and dry completely. Select a suitable work area that will permit the patched section to remain undisturbed for suitable adhesive curing and drying time.

4. Remove enough of the main liner hook and pile tape fastening straps (Figure 6, Item 1) from the strap loops on the airbeams to lower and place the damaged liner area onto a suitable work surface.

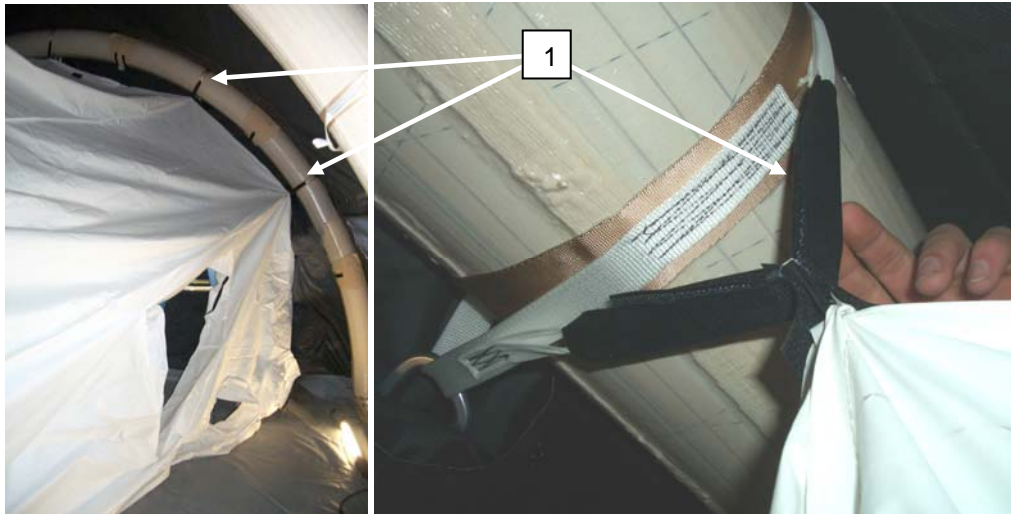


Figure 6. Detach Main Liner from Airbeams.

5. With a brush and warm, soapy water, remove any surface dirt or debris from the damaged area. Allow the area to dry thoroughly.
6. Trim any frays or torn fabric to prepare a neat, clean edged area for adhesive patching.

REPAIR - CONTINUED**NOTE**

Rounded corners on a patch generally yield better long term results.

7. Measure the height and width of the damaged area, and cut a piece of patching material to extend and overlap beyond the damaged area 1-inch in all directions (Figure 7). Round the corners of the patch.

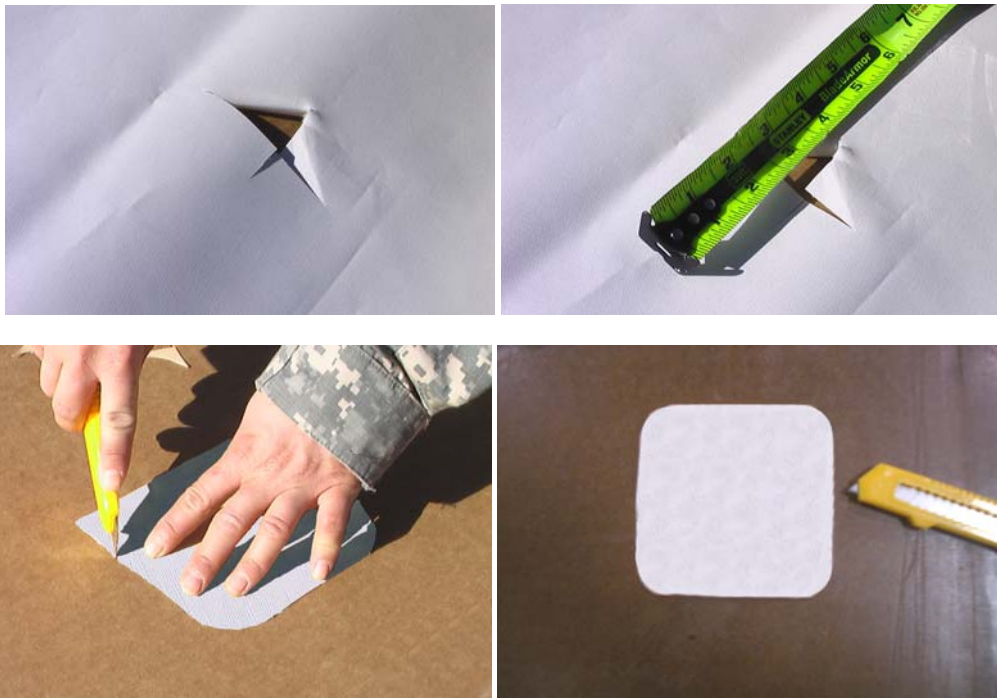


Figure 7. Measure and Cut Patch Material.

8. Using an alcohol prep pad, clean the area where the patch will be applied (Figure 8).



Figure 8. Prepare Adhesive Patch Area.

REPAIR - CONTINUED

9. Using an alcohol prep pad, clean the side of the patch that will come in contact with the damaged liner (Figure 9).

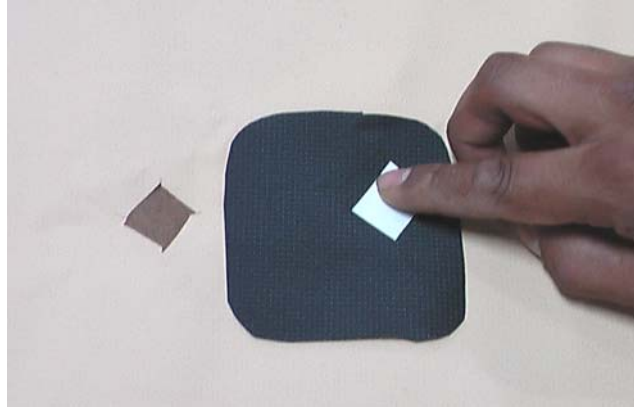


Figure 9. Preparing Patch with Alcohol Prep Pad.

10. Place the prepared patch in position over the damaged area and trace around the patch perimeter with a pencil (Figure 10).

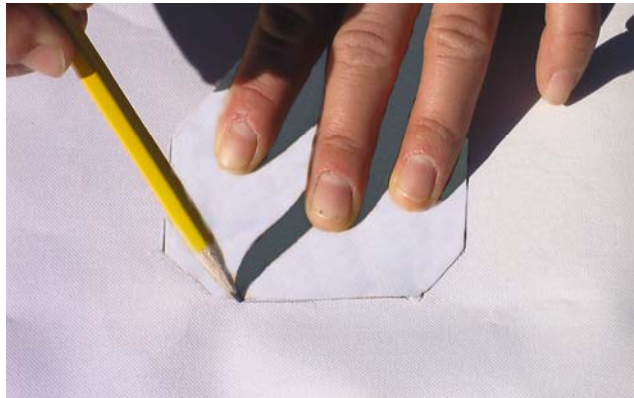


Figure 10. Trace Patch Perimeter with Pencil.

REPAIR - CONTINUED

WARNING

HH-66 Vinyl Cement is highly combustible, DO NOT use near an open flame or spark. Use only in a well ventilated area as the chemical vapors are hazardous. Be sure to protect yourself with gloves and goggles and avoid skin and eye contact. If your skin should come in contact with the vinyl cement, flush the area with water and seek medical attention. Failure to adhere to these warnings may result in injury or death.

11. Remove the patch and apply adhesive to the damaged area of the liner going just beyond the patch perimeter previously marked (Figure 11).

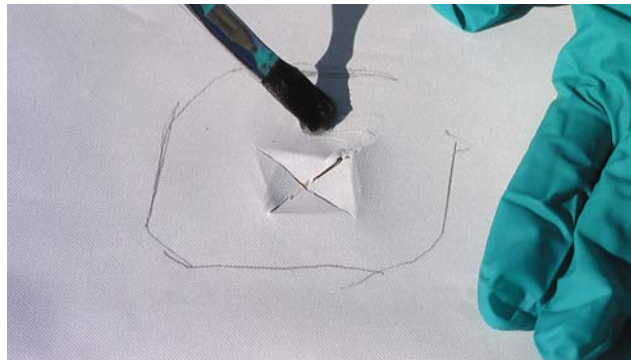


Figure 11. Apply Adhesive to Damaged Area.

12. Place the patch on a suitable work surface and apply adhesive to the side of the patch that will come in contact with the damaged area (Figure 12).

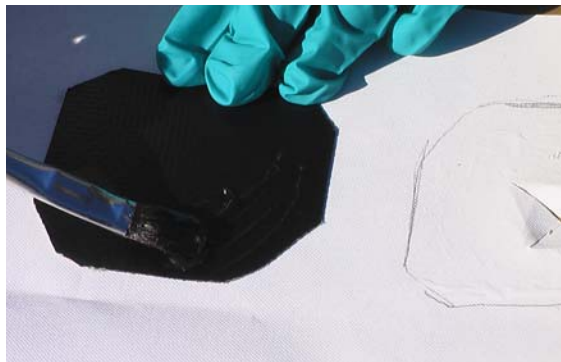


Figure 12. Apply Adhesive to Patch.

13. Wait approximately 2 - 5 minutes until the adhesive that was applied to the damaged liner and the patch is tacky and does not cling to the finger if touched.

REPAIR - CONTINUED**CAUTION**

The adhesive used to apply the permanent patch is a contact adhesive. Be sure to align the patch over the damaged area before coming in contact with the damaged area. Once the patch comes in contact with the liner it cannot easily be removed and can result in additional damage if repositioning is necessary.

14. Apply the patch to the damaged area by aligning one edge with the pencil line made earlier on the damaged area (Figure 13). Carefully roll the patch over the damaged area to prevent wrinkles or bubbles under the patch. Apply additional adhesive if necessary to areas under the patch that are not bonded to the damaged area. Allow the adhesive to dry to a light tack before pressing into position.

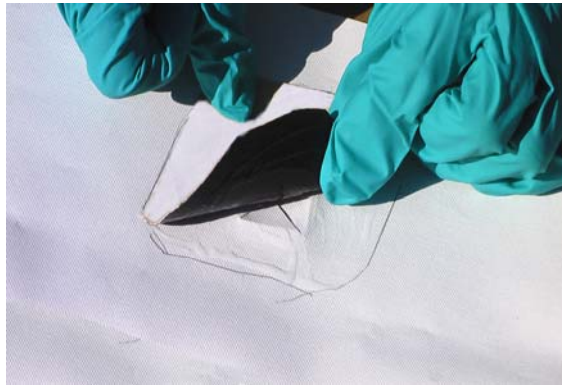


Figure 13. Apply Patch to Damaged Area.

15. Once the patch has been completely applied to the damaged area, press firmly with fingers, working from the center of the permanent patch outwards ensuring that any folds or air pockets have been worked out of the patch area (Figure 14).



Figure 14. Remove Air Pockets from Patch.

REPAIR - CONTINUED

16. Repeat Steps 5 through 15 and apply a permanent patch over the damaged area on the other side of the liner material (Figure 15).

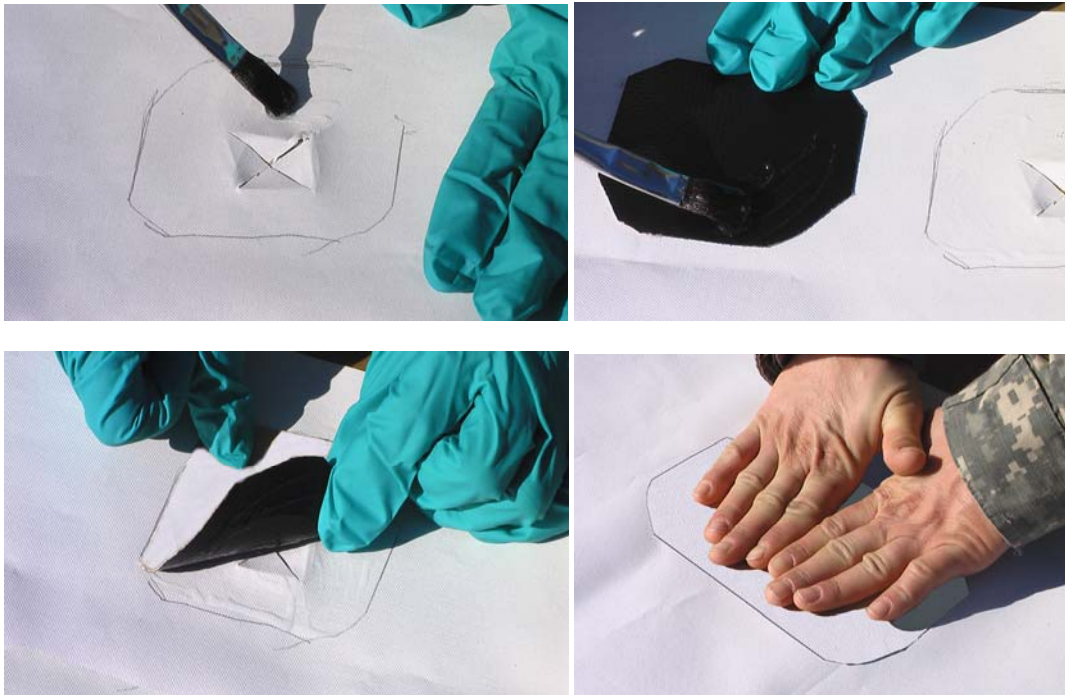


Figure 15. Applying Permanent Patch to Damaged Liner.

17. Allow 30 minutes for the patch adhesive to cure and dry completely.
18. If removed during the repair, perform the Installation sequence of the Replace procedure for any components removed near the repaired area:
- e. Liner End Section - WP 0021.
 - f. Plenum - WP 0023.
 - g. Lighting Assemblies - WP 0006.
 - h. Power Distribution Assemblies - WP 0006.

END OF TASK

REPLACE**Remove TEMPER, Air-Supported Components from Main Liner****NOTE**

A step aid may be required to detach Power Distribution or Lighting components attached to the main liner.

1. Remove all power distribution or lighting components from the main liner IAW WP 0007.
2. Remove the plenum from the main liner and liner end section IAW WP 0023.
3. Remove the liner end section from the main liner IAW WP 0021.

END OF TASK**Remove Main Liner**

1. Detach all main liner hook and pile fasteners (Figure 16, Item 1) from the shelter main body skin in all places.

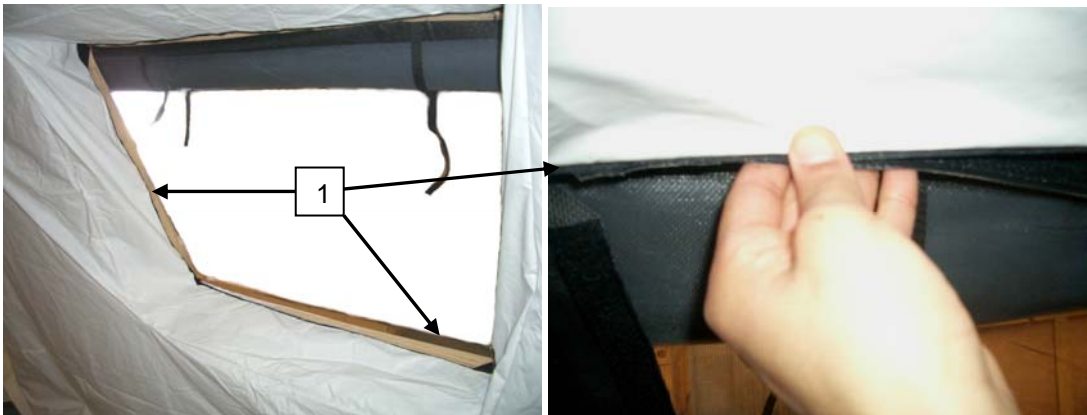


Figure 16. Detach Main Liner Window Openings.

REPLACE - CONTINUED

2. Along the floor, between the main liner and the shelter main body skin, untie the fastening ties (Figure 17, Item 1) that attached the main liner to the airbeam footers and main body skin.

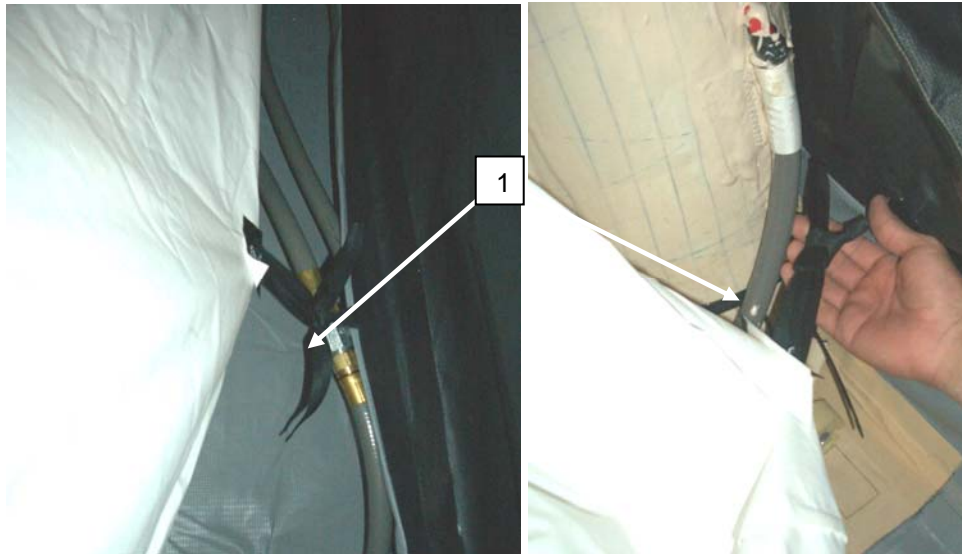


Figure 17. Untie Main Liner Fastening Ties.

NOTE

A step aid may be required to detach the main liner from the airbeams.

3. Working from the sides of the liner inward, and from one end of the shelter to the opposite end; at the airbeams, peel apart and detach all of the main liner hook and pile fastening straps (Figure 18, Item 1) from the airbeam attaching strap loops (Figure 18, Item 2).

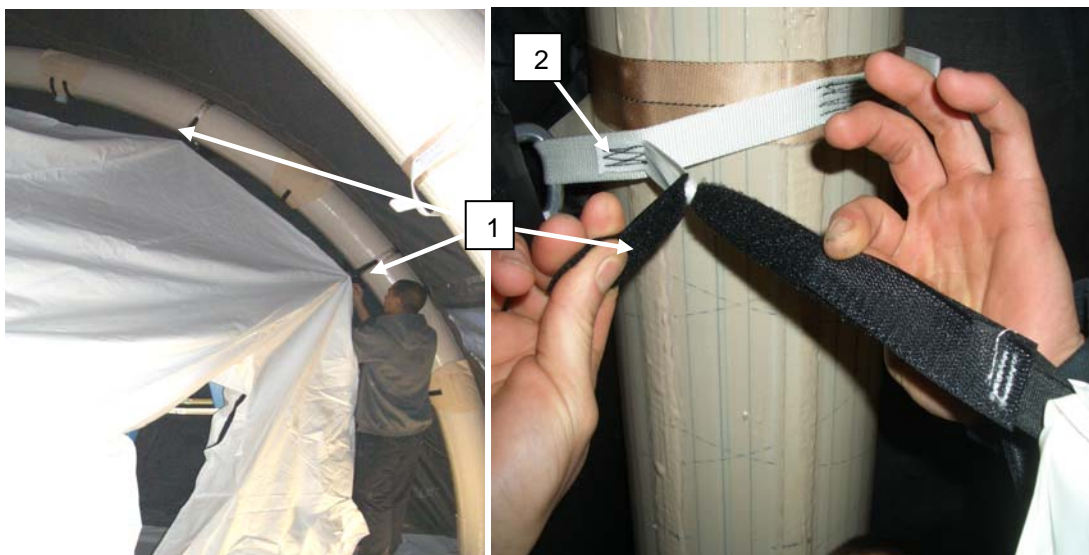


Figure 18. Detach Main Liner Fastening Straps.

4. Remove the main liner from the shelter.

END OF TASK

REPLACE - CONTINUED**Install Main Liner****NOTE**

The main liner consists of a center section that a plenum is attached to that connects to an external Environmental Control Unit (ECU) through the ECU ports in the main liner. Depending upon tent version, ECU port may be on the end panel or the side of the tent.

1. Spread the main liner inside the tent with the black attachment loops up. Align liner ECU openings with the ECU port locations on the shelter main body skin.

NOTE

A step aid may be required to attach the main liner to the airbeams.

2. At the center airbeams, attach the main liner hook and pile fastening straps (Figure 19, Item 1) to the airbeam side loops (Figure 19, Item 2).
3. At the end airbeams, attach the main liner hook and pile fastening straps (Figure 19, Item 1) to both airbeam loops (Figure 19, Item 2).

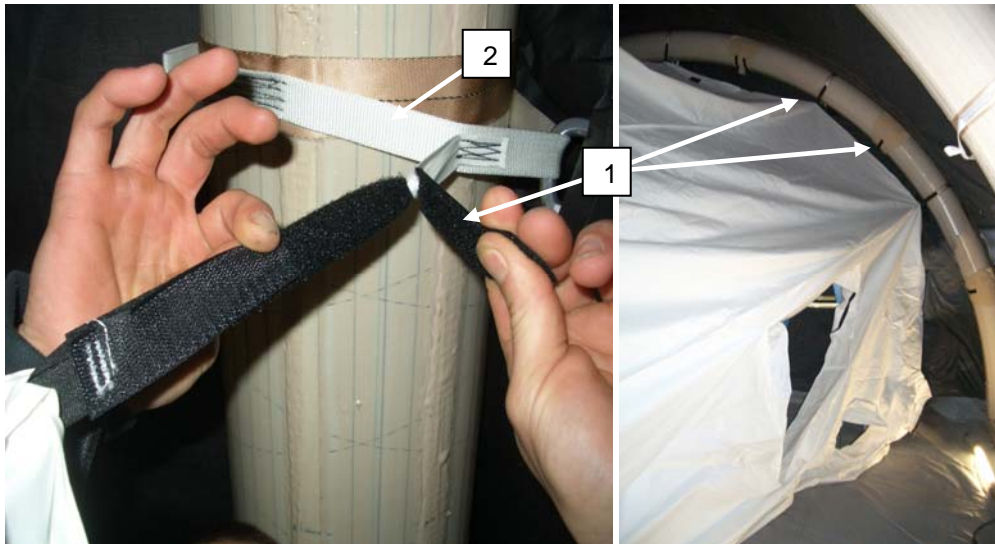


Figure 19. Attach Main Liner Fastening Straps.

REPLACE - CONTINUED

4. Along the floor, between the main liner and the shelter main body skin, with the fastening tie straps on the shelter main body skin (Figure 20, Item 1); tie the fastening straps to the loops on the main liner at the airbeams and main body skin.

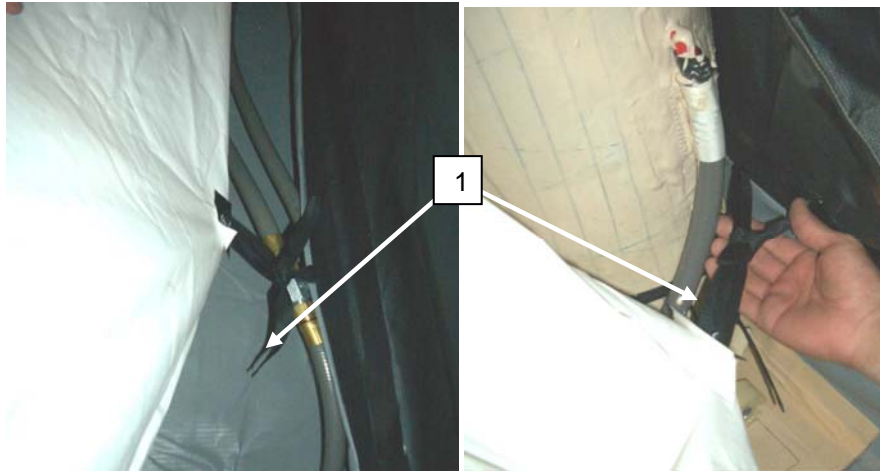


Figure 20. Tie Main Liner Fastening Ties.

NOTE

Ensure that doorway tie straps above the doorways are free and clear when securing lines.

5. At the liner window and doorway openings, attach the main liner to the shelter main body skin with the hook and pile fastening strips (Figure 21, Item 1).

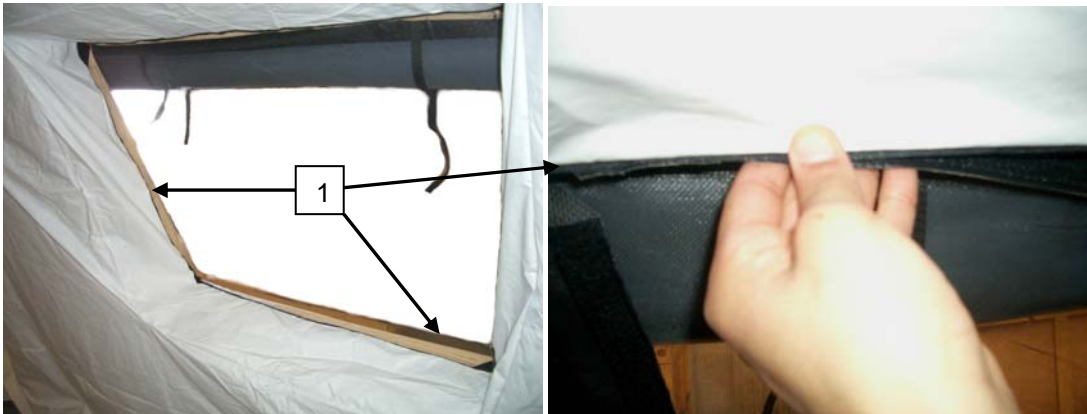


Figure 21. Attach Main Liner Window Openings.

6. Install the liner end section IAW WP 0021.
7. Install the plenum IAW WP 0023.
8. Install power distribution and lighting components IAW WP 0006.
9. Check and tension TEMPER, Air-Supported shelter IAW WP 0005.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
PLENUM
SERVICE, REPAIR, REPLACE

INITIAL SETUP:**Tools and Special Tools**

Knife, Utility (WP 0065, Item 2)
Tape, Measuring (WP 0065, Item 3)

Personnel Required

Non-MOS Specific (2)

Materials/Parts

Adhesive (WP 0064, Item 1)
Brush, Acid Swabbing (WP 0064, Item 2)
Brush, Scrub (WP 0064, Item 3)
Paper Cup (WP 0064, Item 6)
Detergent, General Purpose (WP 0064, Item 7)
Gloves Chemical (WP 0064, Item 8)
Goggles (WP 0064, Item 9)
Lead, Pencil, Graphite (WP 0064, Item 10)
Paper Plate (WP 0064, Item 11)
Rag, Wiping (WP 0064, Item 12)

Equipment Condition

Shelter either deployed or struck

SERVICE

Clean the plenum as needed to remove dirt or other debris. Use warm, soapy water and a rag. Dry the plenum completely.

REPAIR**Repair Plenum with a Temporary Patch****NOTE**

The plenum patch adhesive material takes 30 minutes to cure and dry completely. Select a suitable work area to perform plenum repair that will permit lying out of the plenum undisturbed for an extended period of plenum patch adhesive curing and drying time.

1. Remove enough of the plenum to access and lay out the damaged area IAW the REPLACE paragraph.
2. Lay out damaged plenum to isolate the damaged area for patching. (Figure 1).



Figure 1. Lay Out Plenum for Patch Repair.

REPAIR - CONTINUED**NOTE**

The repair kit contains temporary self-stick adhesive patches for main body skin, floor, liner and plenum patches. The procedures are identical for all of the shelter, liner and plenum materials.

3. With a brush and warm, soapy water, remove any surface dirt or debris from the damaged area. Allow the area to dry thoroughly.
4. Trim any frays or torn fabric to prepare a neat, clean edged area for adhesive patching.

NOTE

Rounded corners on an adhesive patch generally yield better long term results.

5. Measure the height and width of the damaged area, and cut a piece of liner patching material to extend and overlap beyond the damaged area 1-inch in all directions (Figure 2). Round the corners of the patch.



Figure 2. Measure and Cut Patch.

REPAIR - CONTINUED

6. With an alcohol prep pad, scrub the area where the adhesive patch will be applied (Figure 3).



Figure 3. Prepare Adhesive Patch Area.

7. Peel the backing paper (Figure 4, Item 1) from the adhesive patch (Figure 4, Item 2), and apply the adhesive patch to the damaged area.

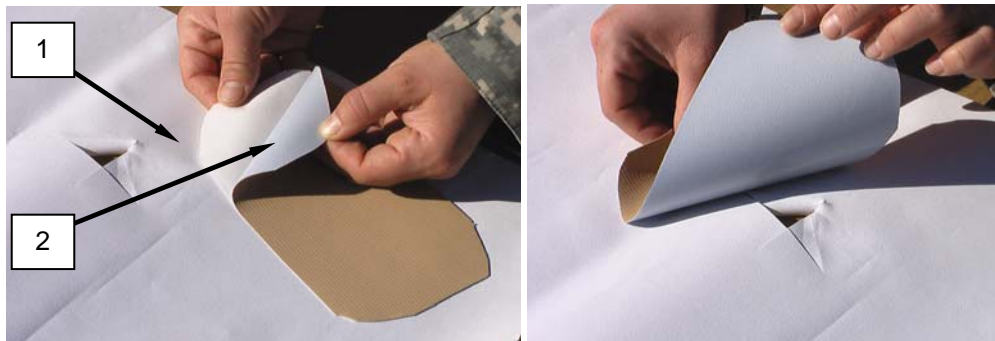


Figure 4. Apply Plenum Patch.

8. Working from the center of the temporary patch outwards, press firmly, working any folds or air pockets out of the patch area (Figure 5).



Figure 5. Main Liner Patch Repair.

9. Leave the patched area undisturbed for 30 minutes to allow the patch adhesive material to cure and dry completely.
10. Re-install plenum IAW the 'Install Plenum' paragraph.

END OF TASK

REPAIR - CONTINUED**Repair Plenum with a Permanent Patch****NOTE**

A step aid may be required to detach the plenum from the main liner.

The plenum patch adhesive material takes 30 minutes to cure and dry completely. Select a suitable work area to perform plenum repair that will permit lying out of the plenum undisturbed for an extended period of plenum patch adhesive curing and drying time.

1. Remove enough of the plenum to access and lay out the damaged area IAW the REPLACE paragraph.
2. Lay out damaged plenum to isolate the damaged area for patching. (Figure 6).



Figure 6. Lay Out Plenum for Patch Repair.

3. With a brush and warm, soapy water, remove any surface dirt or debris from the damaged area. Allow the area to dry thoroughly.
4. Trim any frays or torn fabric to prepare a neat, clean edged area for adhesive patching.

REPAIR - CONTINUED**NOTE**

Rounded corners on a patch generally yield better long term results.

5. Measure the height and width of the damaged area, and cut a piece of patching material to extend and overlap beyond the damaged area 1-inch in all directions (Figure 7). Round the corners of the patch.



Figure 7. Measure and Cut Patch Material.

6. Using an alcohol prep pad, clean the area where the patch will be applied (Figure 8).



Figure 8. Prepare Adhesive Patch Area.

REPAIR - CONTINUED

7. Using an alcohol prep pad, clean the side of the patch that will come in contact with the damaged plenum (Figure 9).

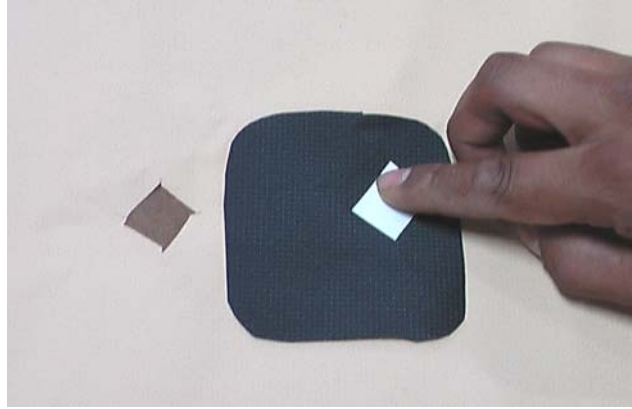


Figure 9. Preparing Patch with Alcohol Prep Pad.

8. Place the prepared patch in position over the damaged area and trace around the patch perimeter with a pencil (Figure 10).

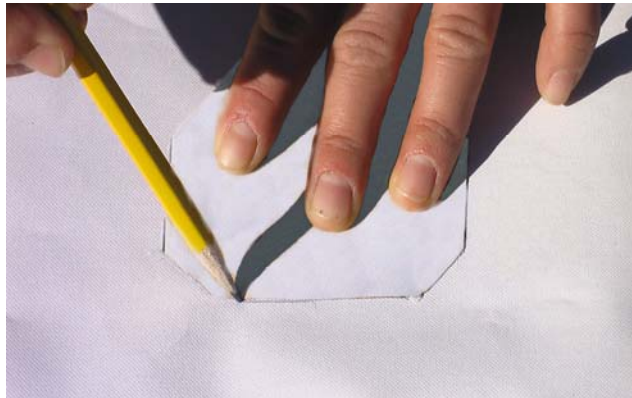


Figure 10. Trace Patch Perimeter with Pencil.

REPAIR - CONTINUED

WARNING

HH-66 Vinyl Cement is highly combustible, DO NOT use near an open flame or spark. Use only in a well ventilated area as the chemical vapors are hazardous. Be sure to protect yourself with gloves and goggles and avoid skin and eye contact. If your skin should come in contact with the vinyl cement, flush the area with water and seek medical attention. Failure to adhere to these warnings may result in injury or death.

9. Remove the patch and apply adhesive to the damaged area of the plenum going just beyond the patch perimeter previously marked (Figure 11).

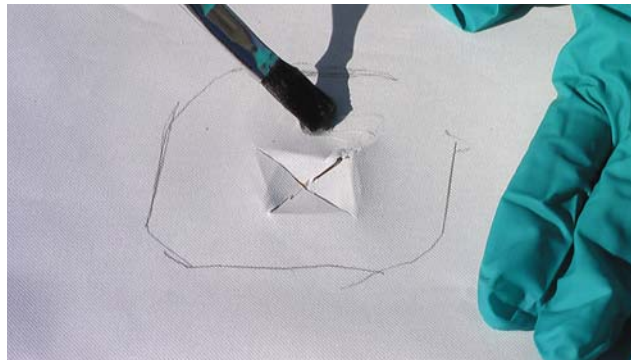


Figure 11. Apply Adhesive to Damaged Area.

10. Place the patch on a suitable work surface and apply adhesive to the side of the patch that will come in contact with the damaged area (Figure 12).

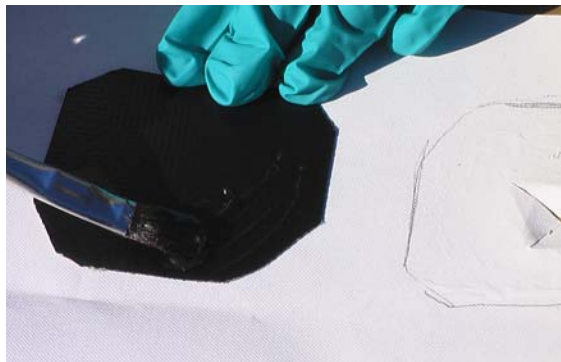


Figure 12. Apply Adhesive to Patch.

11. Wait approximately 2 - 5 minutes until the adhesive that was applied to the damaged plenum and the patch is tacky and does not cling to the finger if touched.

REPAIR - CONTINUED**CAUTION**

The adhesive used to apply the permanent patch is a contact adhesive. Be sure to align the patch over the damaged area before coming in contact with the damaged area. Once the patch comes in contact with the plenum it cannot easily be removed and can result in additional damage if repositioning is necessary.

12. Apply the patch to the damaged area by aligning one edge with the pencil line made earlier on the damaged area (Figure 13). Carefully roll the patch over the damaged area to prevent wrinkles or bubbles under the patch. Apply additional adhesive if necessary to areas under the patch that are not bonded to the damaged area. Allow the adhesive to dry to a light tack before pressing into position.

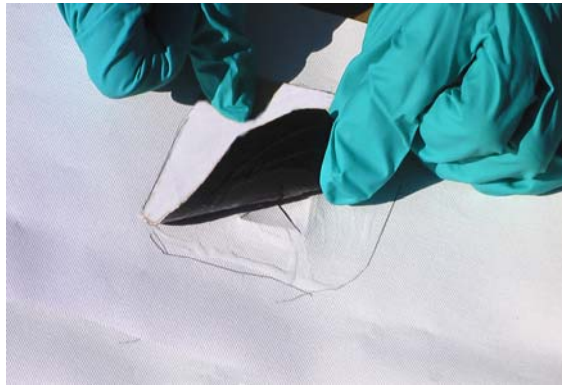


Figure 13. Apply Patch to Damaged Area.

13. Once the patch has been completely applied to the damaged area, press firmly with fingers, working from the center of the permanent patch outwards ensuring that any folds or air pockets have been worked out of the patch area (Figure 14).



Figure 14. Remove Air Pockets from Patch.

REPAIR - CONTINUED

14. Repeat Steps 5 through 15 and apply a permanent patch over the damaged area on the other side of the plenum material (Figure 15).

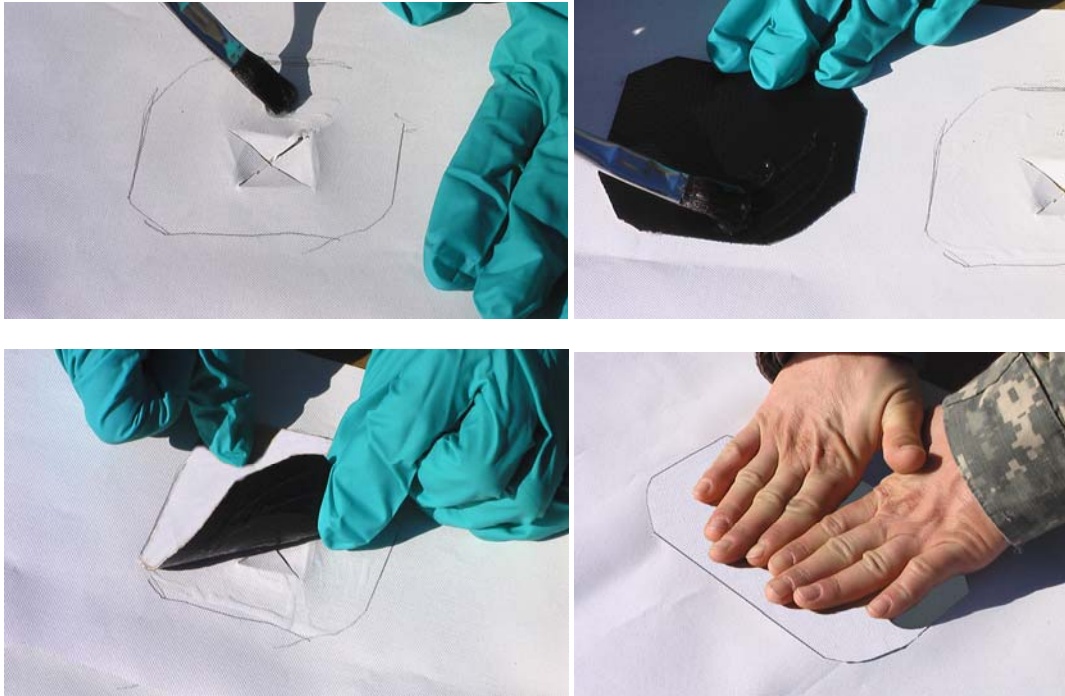


Figure 15. Applying Permanent Patch to Damaged Plenum.

15. Allow 30 minutes for the patch adhesive to cure and dry completely.
16. Re-install plenum IAW the 'Install Plenum' paragraph.

END OF TASK

REPLACE**Remove Plenum****NOTE**

A step aid may be required to detach the plenum from the main liner.

1. Detach the plenum by untying the plenum securing ties located on both sides of the plenum from the loops on the main liner (Figure 16, Item 1) along the length of the shelter.



Figure 16. Remove Plenum from Main Liner.

2. Lay out plenum for repair or shipment (Figure 17).



Figure 17. Lay Out Plenum.

END OF TASK

REPLACE - CONTINUED**Install Plenum****NOTE**

A step aid may be required to attach the plenum to the main liner.

1. Spread the plenum along the length of the shelter, with the open end of the plenum at the ECU openings in the main liner (Figure 18).



Figure 18. Prepare Plenum for Installation.

2. Using the securing ties (Figure 19, Item 1) along both sides of the plenum; fasten the securing ties to the loops on the main liner along the length of the shelter.



Figure 19. Attach Plenum to Main Liner.

REPLACE - CONTINUED**NOTE**

The plenum has an adjustable strap for connecting to a 16-inch air duct.

3. Connect the plenum to an air supply (Figure 20).

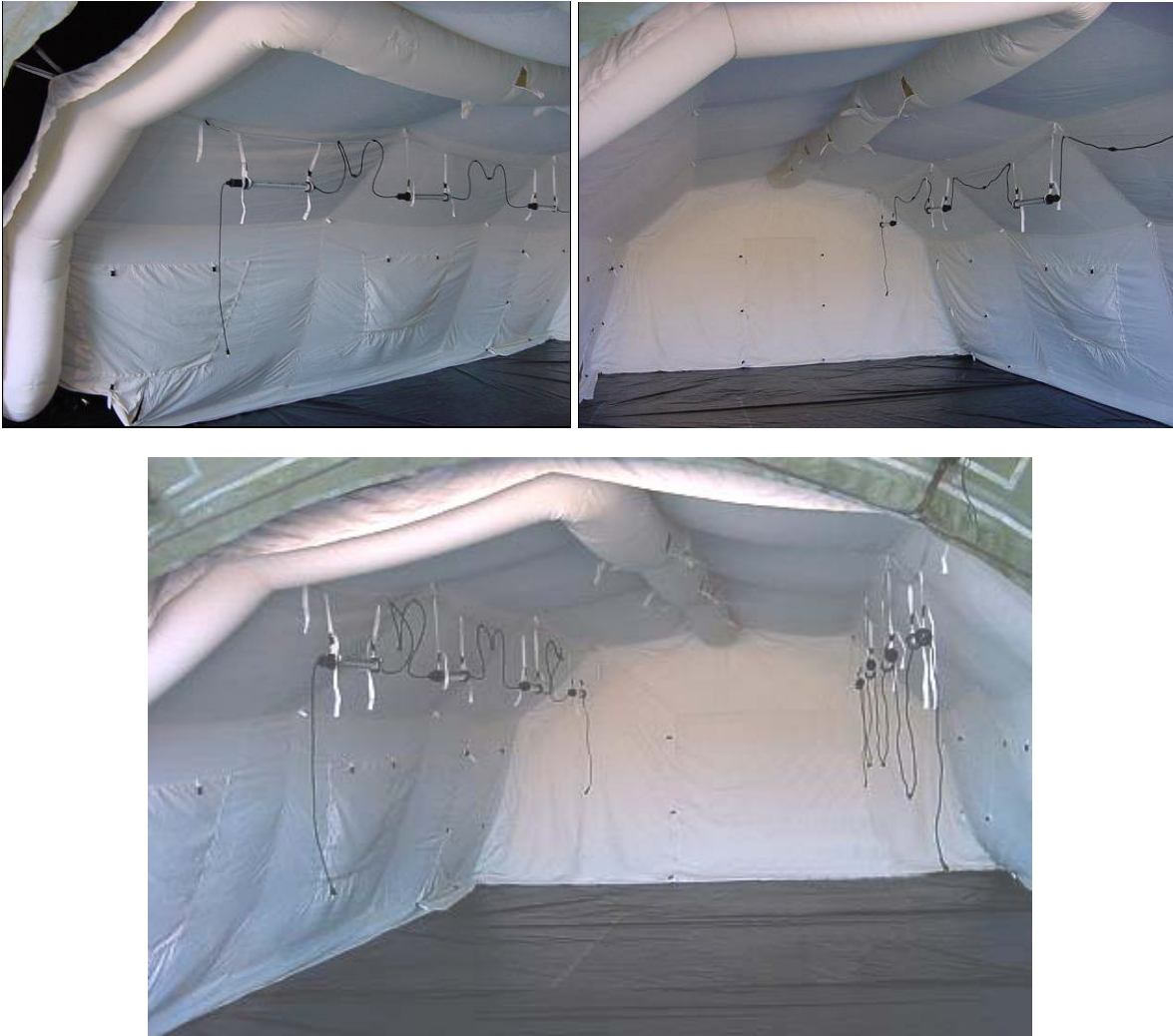


Figure 20. Installed Plenum.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE**AIRBEAM ASSEMBLY
REPLACE****INITIAL SETUP:****Tools and Special Tools**

Knife, Utility (WP 0065, Item 2)

Personnel Required

Non-MOS Specific (2)

Materials/Parts

Repair Kit (WP 0064, Item 13, 14)

References

WP 0005, WP 0006, WP 0007, WP 0021,
WP 0022, WP 0023

Equipment Condition

Shelter either deployed or struck

REPLACE**Prepare For Airbeam Assembly Removal**

1. Detach any Power Distribution or Lighting Components near the airbeam (Figure 1, Item 1) to be replaced IAW WP 0007.

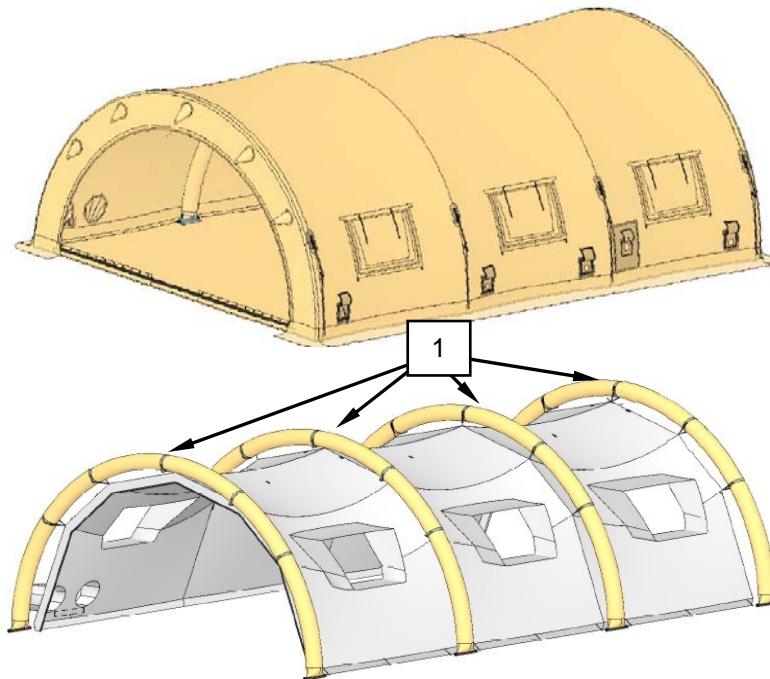


Figure 1. TEMPER, Air-Supported Airbeam Assembly.

2. If necessary, detach the Plenum from the Main Liner and Liner End Section IAW WP 0023.
3. Detach any Liner End Section components attached to the airbeam to be replaced IAW WP 0021.
4. Detach any Main Liner components attached to the airbeam to be replaced IAW WP 0022.

END OF TASK

REPLACE - CONTINUED

Remove Airbeam Assembly

NOTE

Ball Valves are open when the valve handle (Figure 2, Item 1) is in-line with the valve body, and closed when the valve handle (Figure 2, Item 2) is across the valve body.

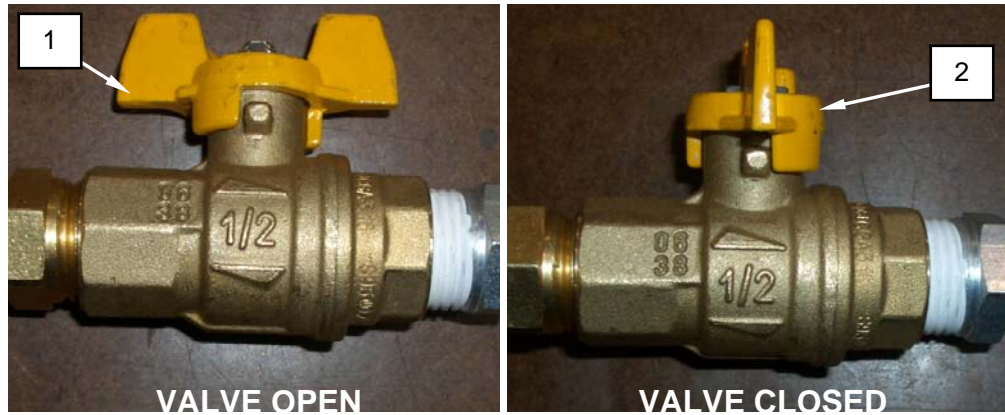


Figure 2. Ball Valve Handle Positions.

1. On the inflation manifold side of the tent, at each airbeam access pocket (Figure 3, Item 1), close all of the airbeam pigtail ball valves (Figure 3, Item 2) to isolate all of the airbeams.

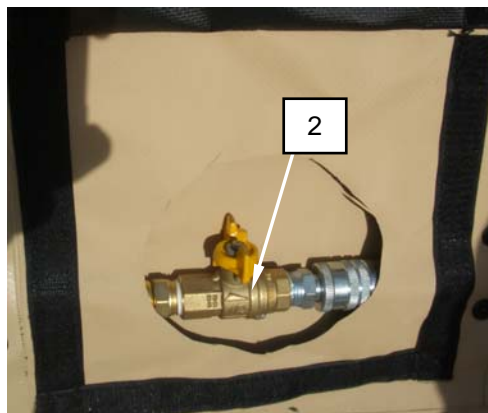
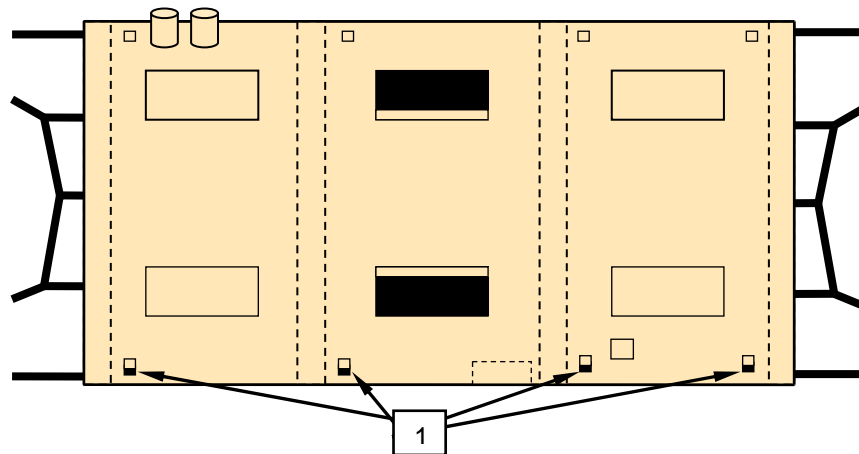


Figure 3. Airbeam Pigtail Ball Valves Closed.

REPLACE - CONTINUED

2. At the footer of the airbeam to be replaced, at the airbeam inflation pigtail ball valve (Figure 4, Item 1), disconnect the female QD fitting (Figure 4, Item 2) on the manifold inflation air hose from the airbeam on the airbeam inflation pigtail ball valve.

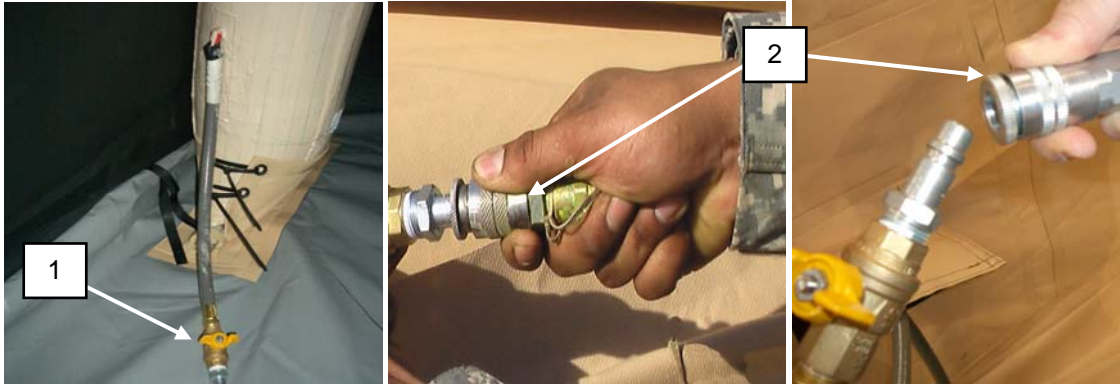


Figure 4. Disconnect Inflation Air Hose from Airbeam.

3. To deflate the airbeam, on both ends of the airbeam, rotate the airbeam inflation pigtail ball valves (Figure 5, Item 1) to the on (open) position.

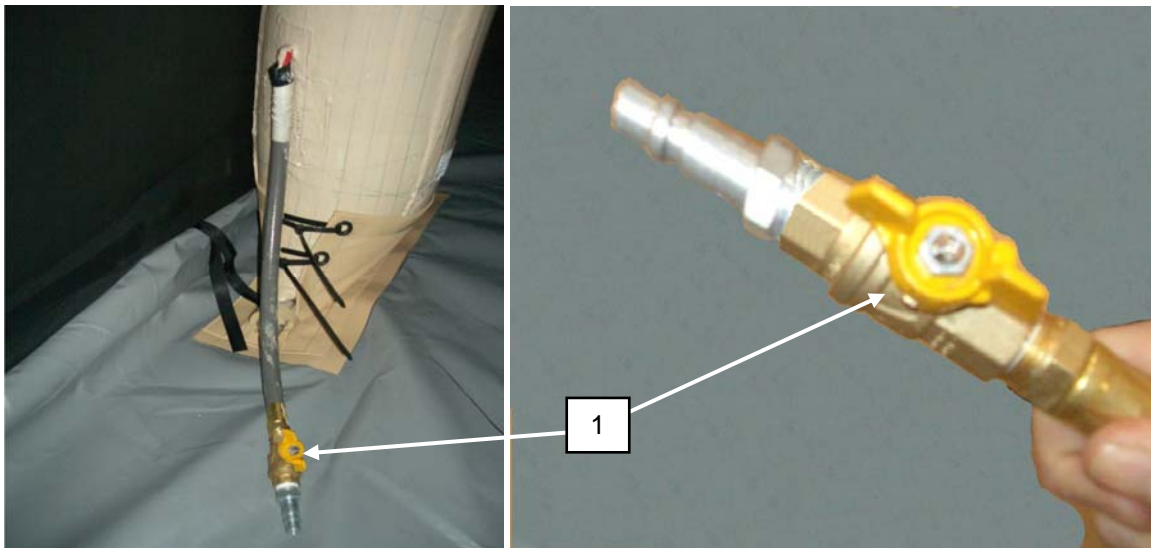


Figure 5. Open Airbeam Inflation Ball Valve.

REPLACE - CONTINUED

4. On both sides of the airbeam, at the airbeam footer, cut and discard the cable ties (Figure 6, Item 1) that secure the airbeam to the footer.

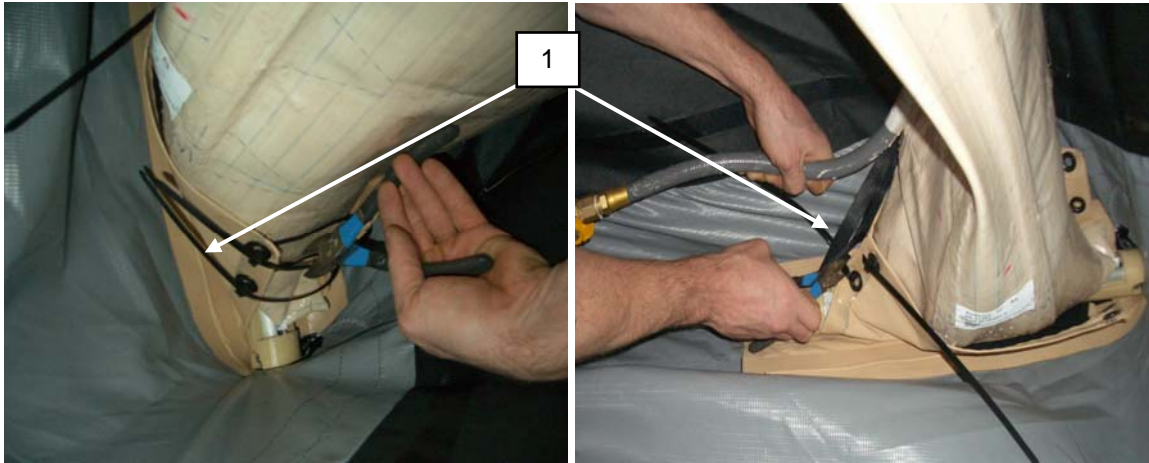


Figure 6. Cut Airbeam Footer Cable Ties.

5. If the airbeam to be replaced is not installed at either end of the tent, proceed to Step 8.
6. On the tent exterior, untie the external tensioning snout securing ties (Figure 7, Item 1).

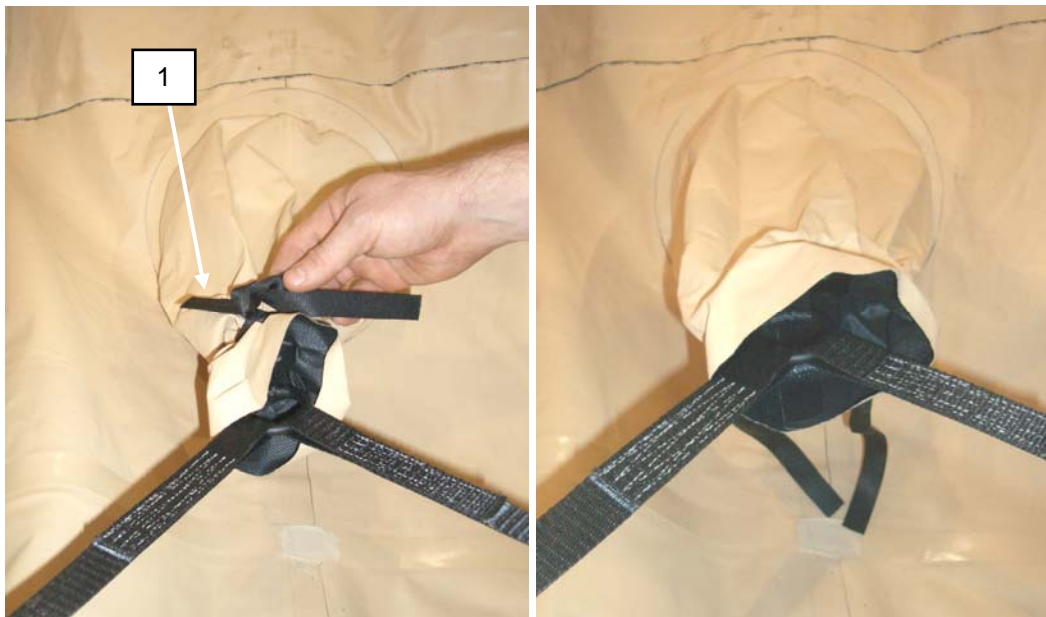


Figure 7. Untie External Tensioning Snout Securing Ties.

REPLACE - CONTINUED

7. Disconnect the external tensioning carabiners (Figure 8, Item 1) from the airbeam attachment straps (Figure 8, Item 2).

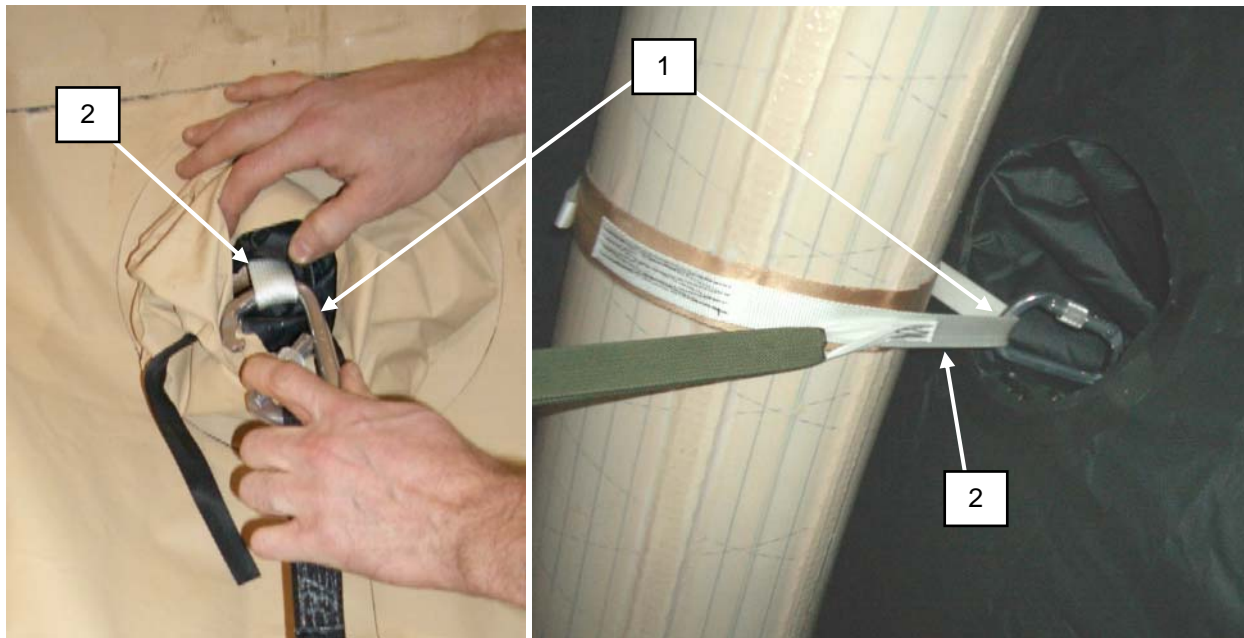


Figure 8. Disconnect External Tensioning Carabiners.

8. Detach the airbeam attachment bands (Figure 9, Item 1) by separating the hook and pile securing straps (Figure 9, Item 2).

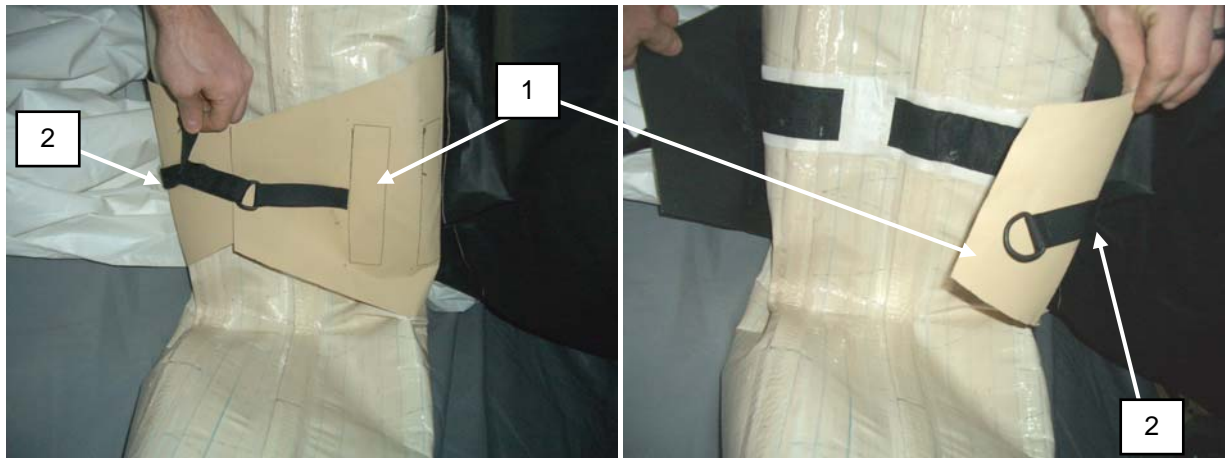


Figure 9. Detach Airbeam Attachment Bands.

REPLACE - CONTINUED

9. Disconnect any devices attached to the airbeam attachment loops (Figure 10, Item 1).

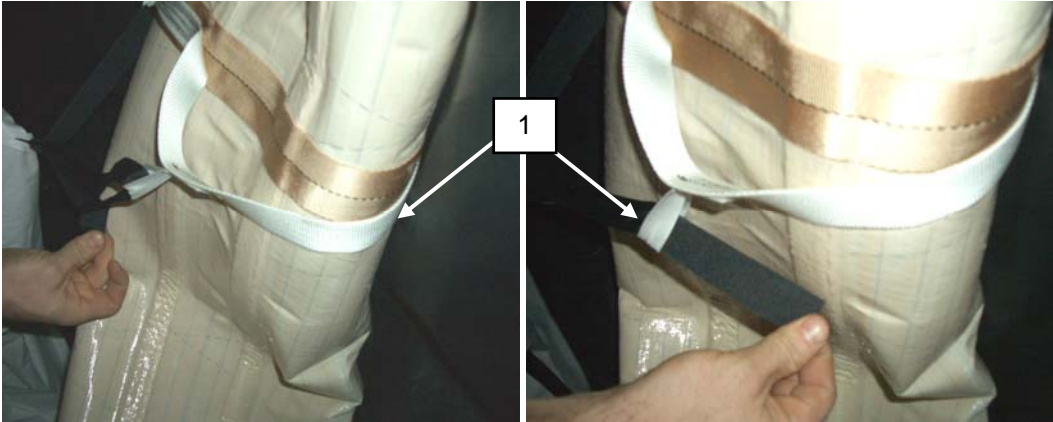


Figure 10. Detach Devices at Airbeam Attachment Loops.

10. Lower the airbeam (Figure 11, Item 1) and lay the airbeam out flat in a suitable work area.



Figure 11. Airbeam Laid Out Flat.

REPLACE - CONTINUED

NOTE

When rolling up the airbeam, leave the far airbeam ball valve open to allow residual air to escape during the airbeam rolling process.

11. Close the airbeam ball valve (Figure 12, Item 1) on one end of the airbeam, lay the ball valve and hose across the airbeam footer (Figure 12, Item 2), and tightly roll up the airbeam.



Figure 12. Rolling Up the Airbeam.

12. Close the end airbeam ball valve; position the airbeam inflation pigtail (Figure 13, Item 1) across the end footer (Figure 13, Item 2) and inside the roll to complete the airbeam rolling process.

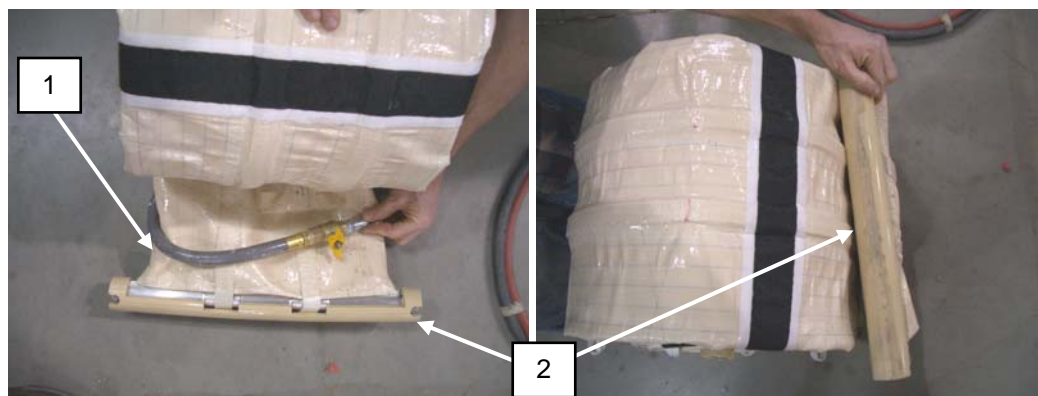


Figure 13. Position Airbeam Inflation Pigtail inside Roll.

END OF TASK

REPLACE - CONTINUED

Install Airbeam Assembly

NOTE

Ball Valves are open when the valve handle (Figure 14, Item 1) is in-line with the valve body, and closed when the valve handle (Figure 14, Item 2) is across the valve body.

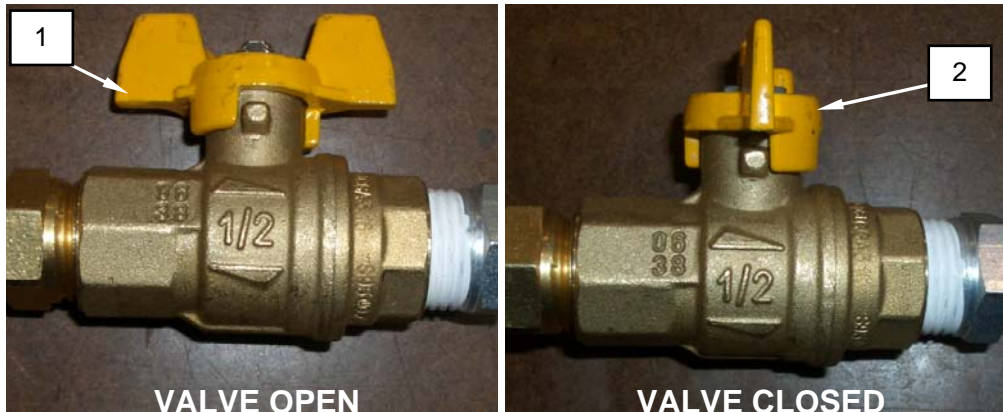


Figure 14. Ball Valve Handle Positions.

1. On the inflation manifold side of the tent, at each airbeam access pocket (Figure 15, Item 1), close all of the airbeam pigtail ball valves (Figure 15, Item 2) to isolate all of the airbeams.

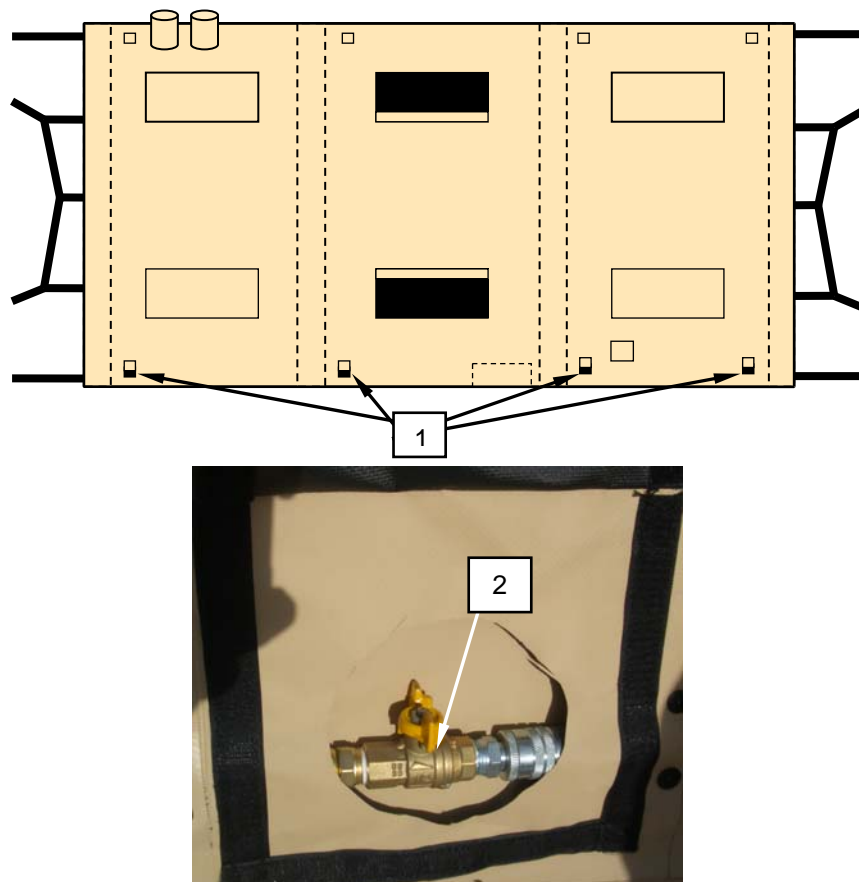


Figure 15. Airbeam Pigtail Ball Valves Closed.

REPLACE - CONTINUED

CAUTION

Ensure that when the airbeam is unrolled and laid out flat, that the airbeam pigtail ball valves are on top of the airbeam, and facing towards the center of the tent. Failure to do so can result in damage to equipment.

2. Position and unroll the airbeam (Figure 16, Item 1) inside the TEMPER, Air-Supported shelter.

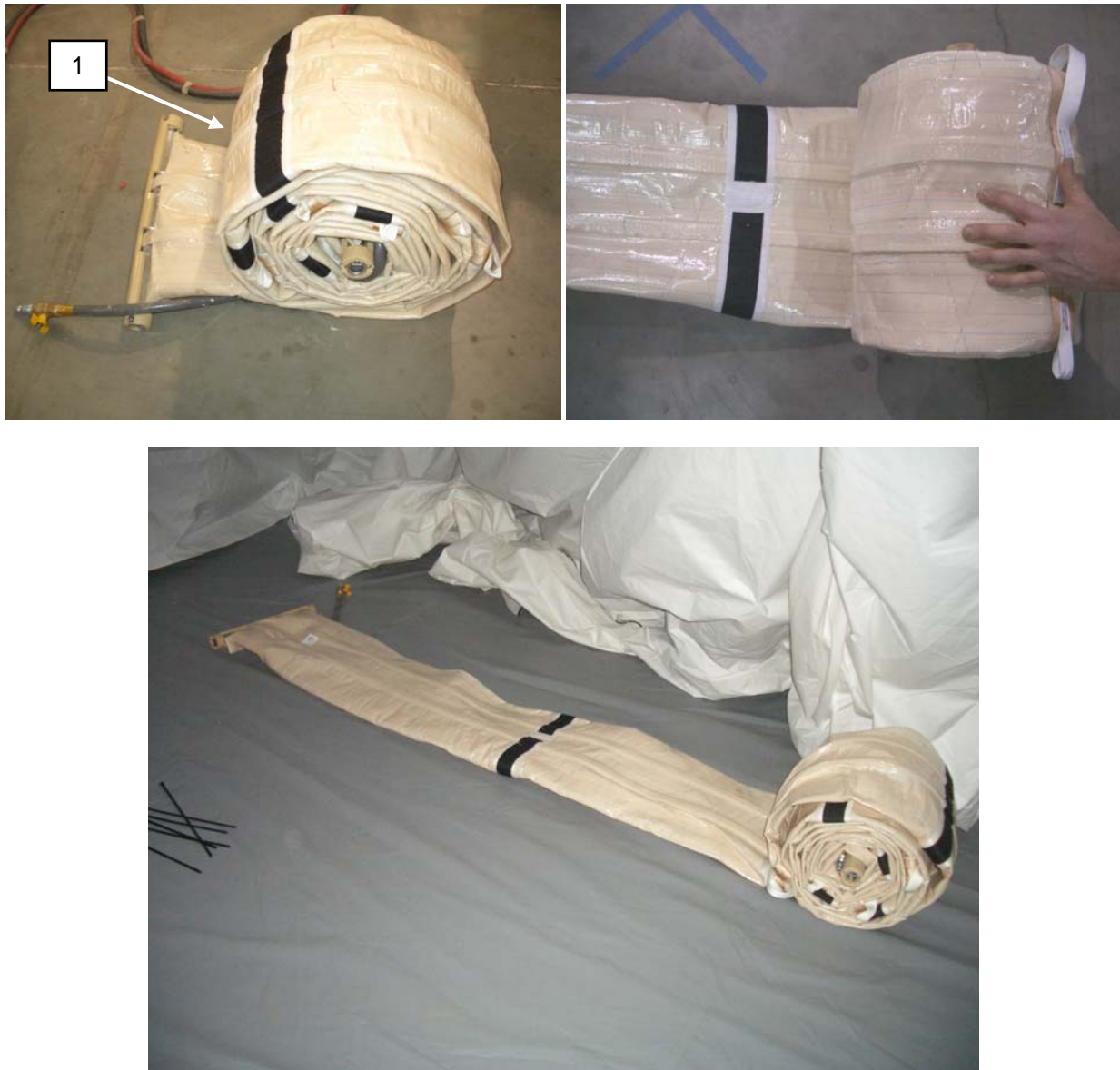


Figure 16. Unrolling the Airbeam.

REPLACE - CONTINUED

3. Lift the airbeam (Figure 17, Item 1) into position against the main body skin within the airbeam attachment bands (Figure 17, Item 2); loosely securing the bands with the attached hook and pile securing straps (Figure 17, Item 3).

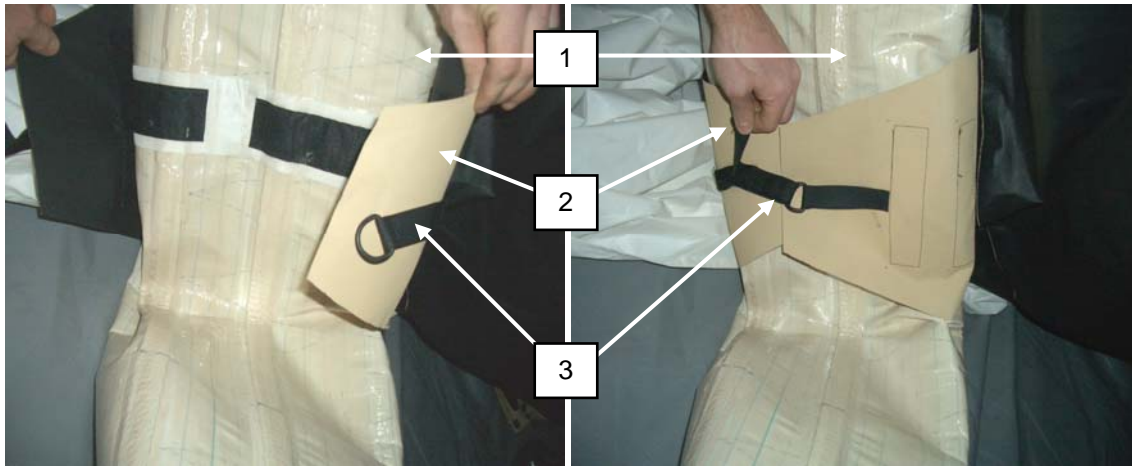


Figure 17. Securing Airbeam Attachment Bands.

4. If the replacement airbeam is not being installed at either end of the tent, proceed to Step 7.
5. At the shelter exterior, pass the external tensioning carabiners (Figure 18, Item 1) through the external tensioning snouts and attach the carabiners to the airbeam securing strap loops (Figure 18, Item 2).

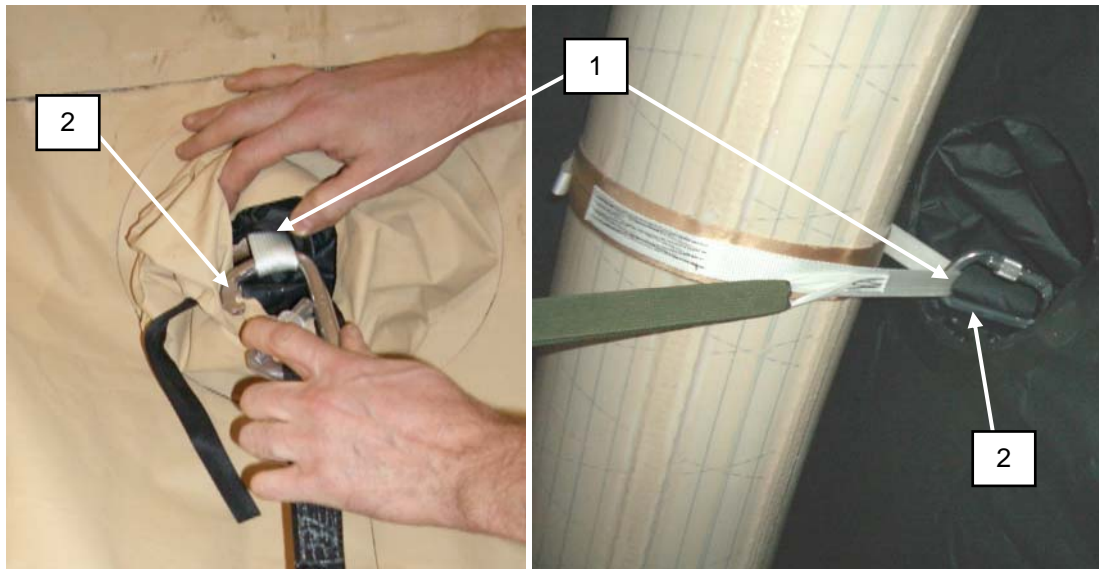


Figure 18. Connect External Tensioning Carabiners.

REPLACE - CONTINUED

6. On the tent exterior, using the attached external tensioning snout securing ties, wrap and tie the snouts with the securing ties (Figure 19, Item 1).

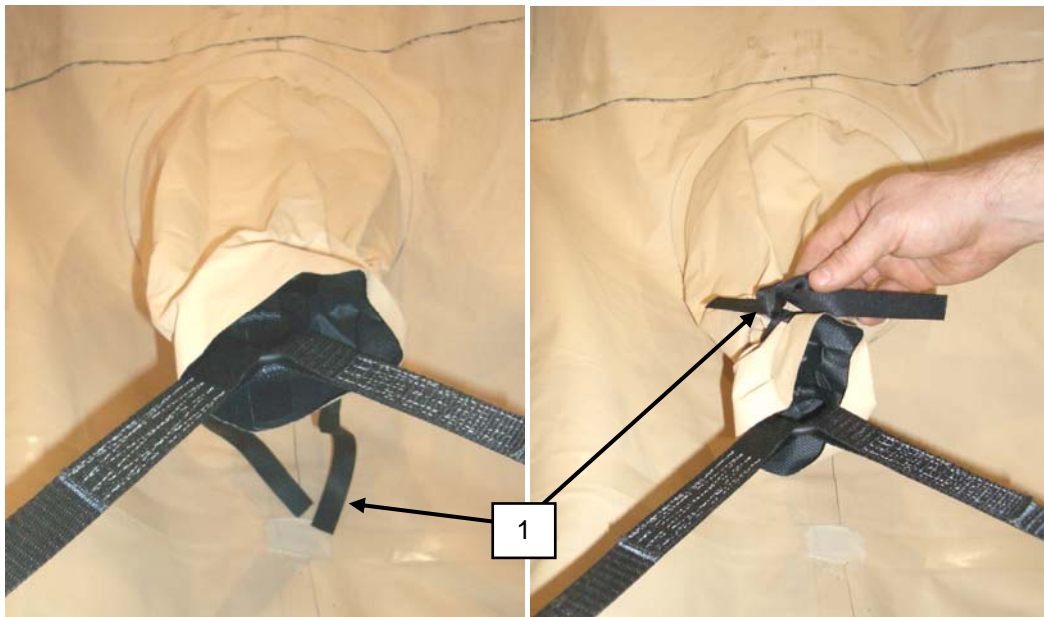


Figure 19. Wrap and Tie External Tensioning Snouts.

NOTE

The replacement airbeam is inflated by connection to the inflation system, using the compressed air distributed across all of the airbeams to inflate the new airbeam. Steps 7 through 11 inflate the replacement airbeam using this method.

Ball Valves are open when the valve handle (Figure 20, Item 1) is in-line with the valve body, and closed when the valve handle (Figure 20, Item 2) is across the valve body.

7. On the replacement airbeam, ensure that the ball valves on the airbeam inflation pigtails on both ends of the airbeam are in the off (closed) position (Figure 20, Item 2).

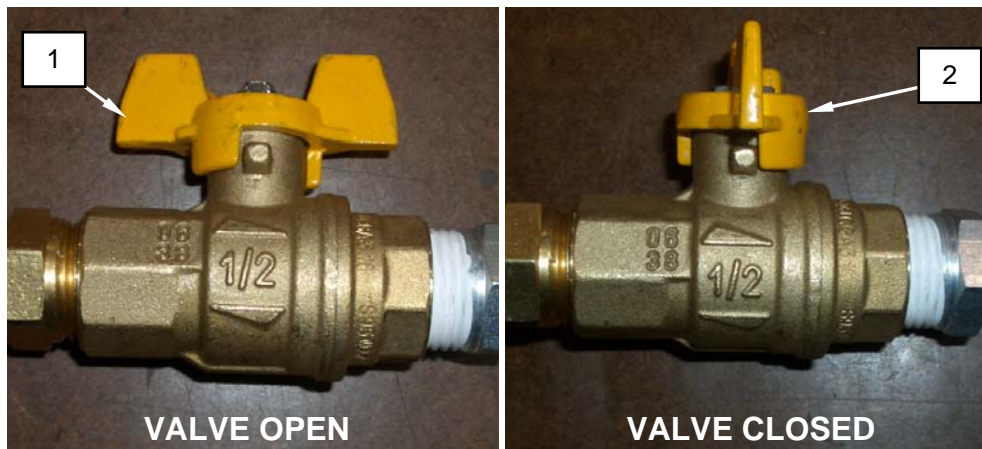


Figure 20. Ball Valve Handle Positions.

REPLACE - CONTINUED

8. At the manifold side of the shelter, on the footer of the replacement airbeam, pass the end of the airbeam inflation pigtail (Figure 21, Item 1) to the shelter exterior access pocket (Figure 21, Item 2).

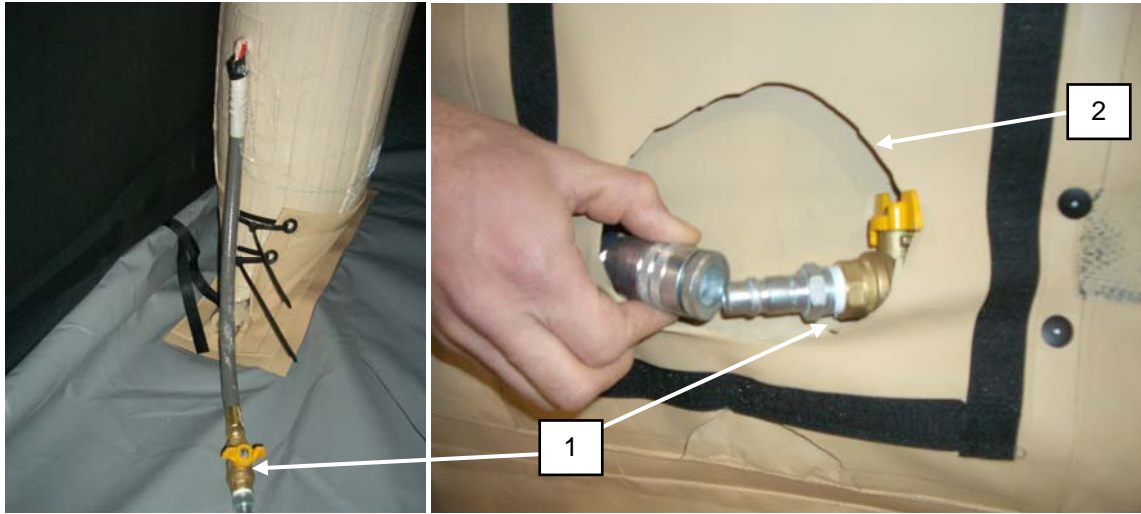


Figure 21. Pass Airbeam Inflation Pigtail to Inflation Ball Valve Access Pocket.

9. At the access pocket, attach the inflation manifold air hose female QD fitting (Figure 22, Item 1) to the airbeam pigtail male QD fitting (Figure 22, Item 2).

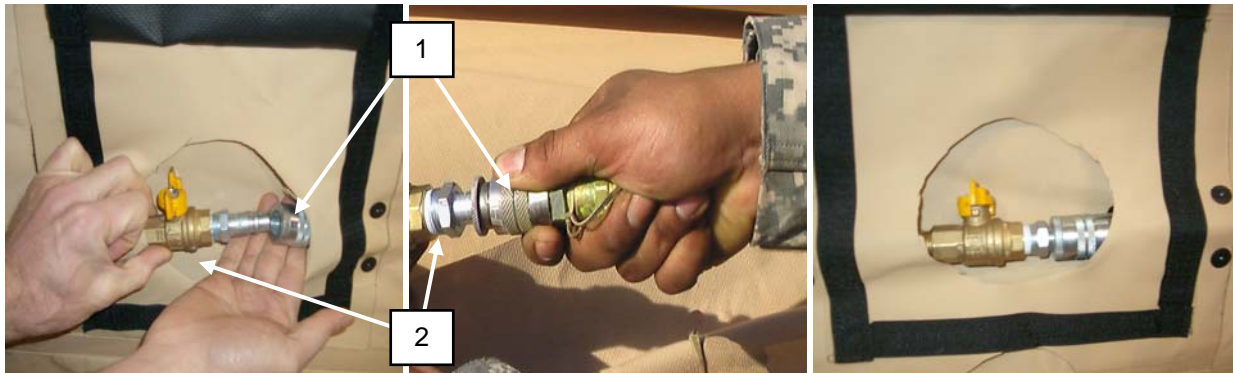


Figure 22. Connect Airbeam Inflation Pigtail to Inflation Manifold Air Hose.

REPLACE - CONTINUED

NOTE

The replacement airbeam ball valve is not opened during this step. It is opened at a later step in the procedure.

10. On the inflation manifold side of the tent (Figure 23, Item 1), open all airbeam ball valves except the replacement airbeam (Figure 23, Item 2).

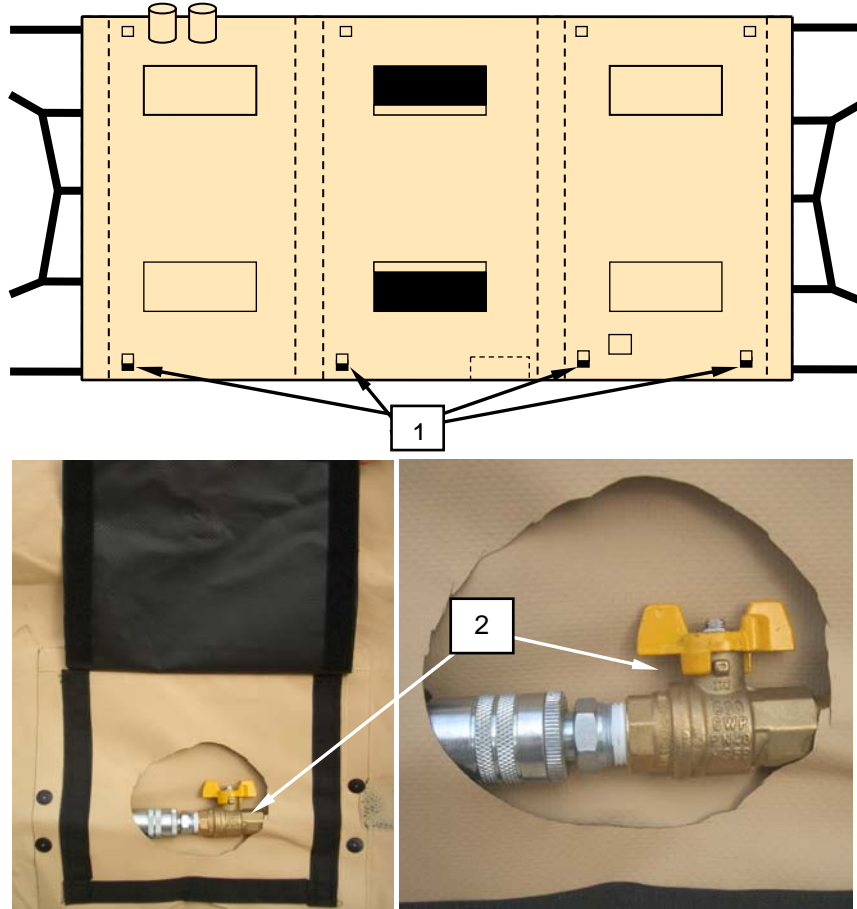


Figure 23. Airbeam Pigtail Ball Valves Open.

REPLACE - CONTINUED

NOTE

Adjustment of replacement airbeam positioning requires partial inflation of the airbeam.

11. At the replacement airbeam, slowly inflate the replacement airbeam from the shelter exterior access pocket by rotating the airbeam inflation ball valve (Figure 24, Item 1) to the on (open) position until the airbeam takes shape (firm to the touch, wrinkles removed), then close the replacement airbeam ball valve.

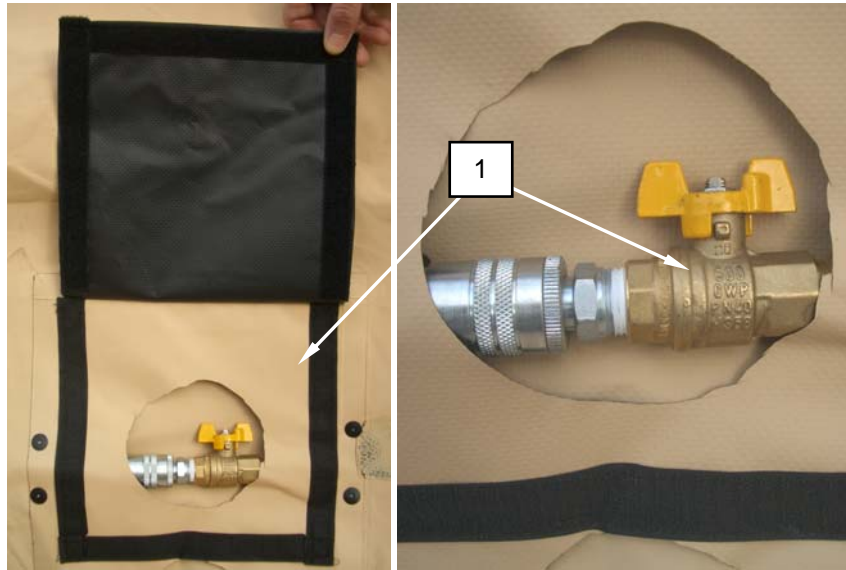


Figure 24. Airbeam Inflation Ball Valve Open.

12. At the tent exterior, adjust the main body skin alignment on the replacement airbeam to ensure that the side support ropes (Figure 25, Item 1) are centered on the replacement airbeam.

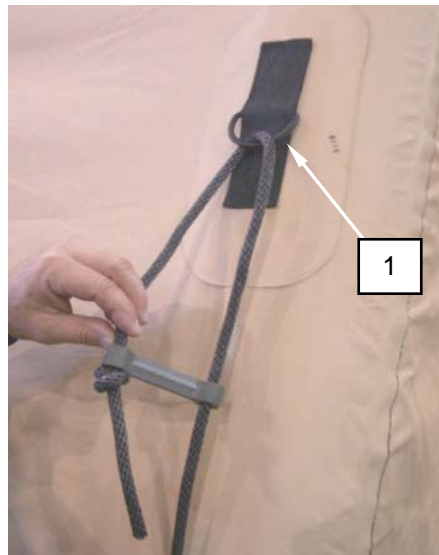


Figure 25. Airbeam Inflation Ball Valve Open.

REPLACE - CONTINUED

13. Adjust, center, and fasten airbeam attachment bands with hook and pile fastening straps (Figure 26, Item 1).

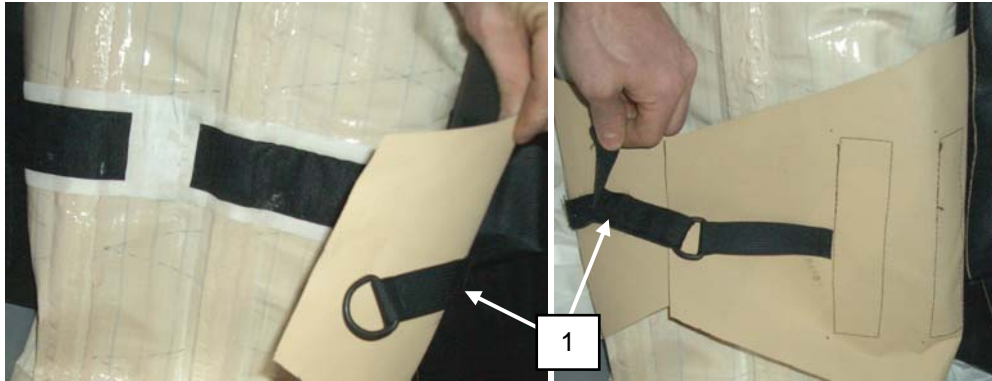


Figure 26. Adjust Airbeam Attachment Bands.

14. At the replacement airbeam exterior access pocket, open the airbeam ball valve (Figure 27, Item 1) to the on (open) position until all of the airbeams equalize air pressure across all airbeams.

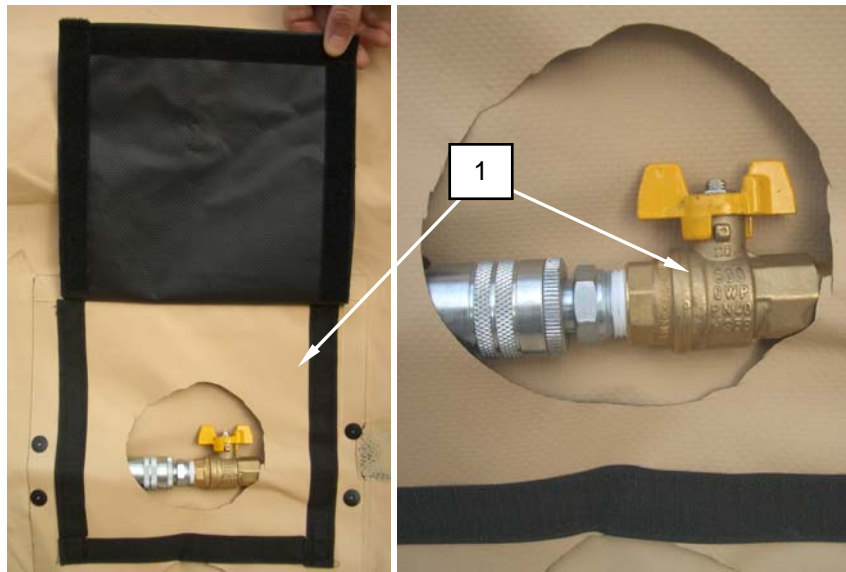


Figure 27. Airbeam Inflation Ball Valve Open.

REPLACE - CONTINUED

15. At the manifold hose access pocket, connect the pressure gauge female QD fitting (Figure 28, Item 1) to the deflation air hose male QD fitting (Figure 28, Item 2).

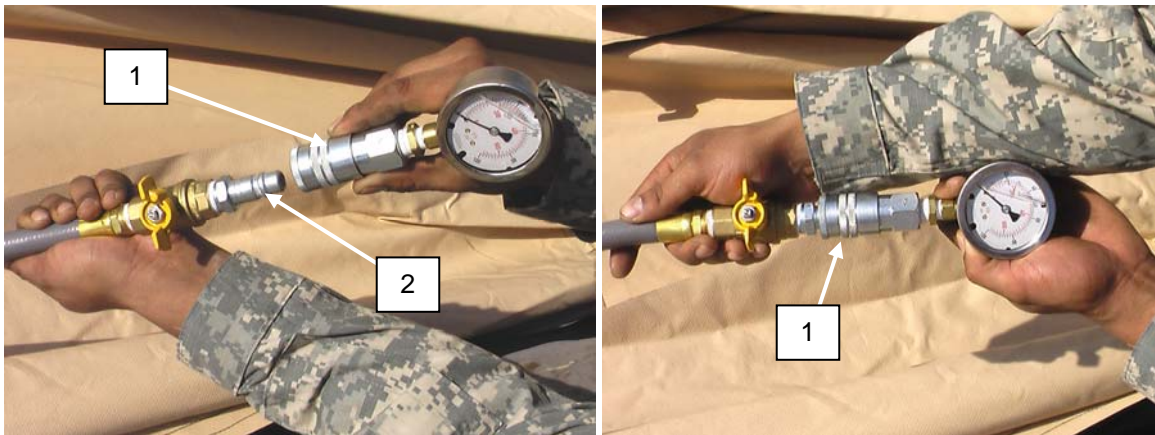


Figure 28. Connect Pressure Gauge to Deflation Air Hose.

16. Open the deflation air hose ball valve (Figure 29, Item 1).

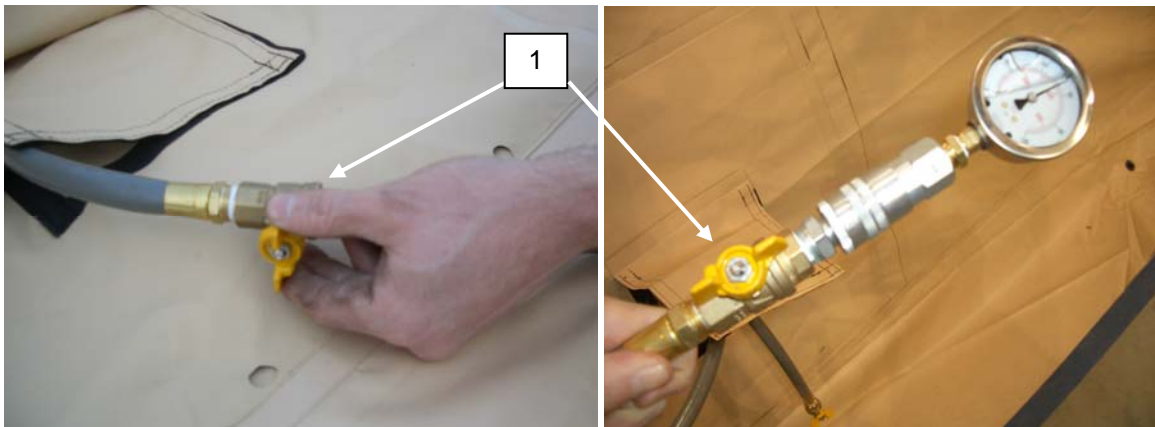


Figure 29. Open Deflation Air Hose Ball Valve.

REPLACE - CONTINUED

17. At the manifold hose access pocket, using the air pressure gauge (Figure 30), verify that the TEMPER, Air-Supported is inflated to 50 +/- 5 PSIG.



Figure 30. Monitor Inflation Pressure.

18. If necessary, connect air compressor and re-inflate shelter to 50 +/- 5 PSIG IAW WP 0005.
19. On both airbeam footers, position the inflated airbeam into the footer securing fittings, and secure the airbeam footers with cable ties. (Figure 31, Item 1).

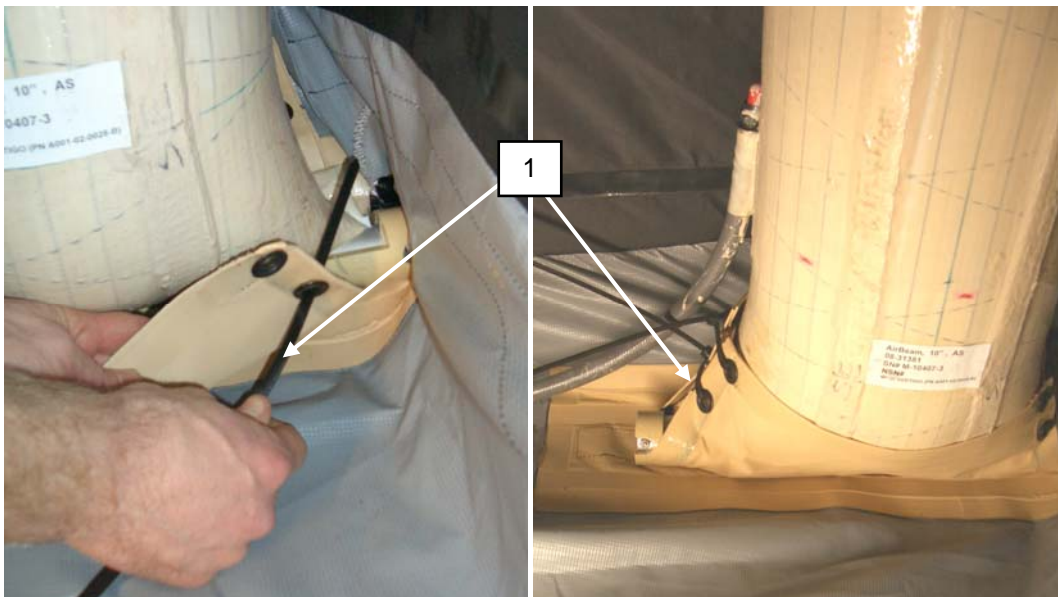


Figure 31. Secure Airbeam Footers with Cable Ties.

REPLACE - CONTINUED

20. Attach any previously detached Main Liner components IAW WP 0022.
21. Attach any previously detached Liner End Section components IAW WP 0021.
22. If necessary, attach the Plenum to the Main Liner and Liner End Section IAW WP 0023.
23. Attach any previously detached Power Distribution or Lighting Components IAW WP 0006.
24. Restore TEMPER, Air-Supported external tension IAW WP 0005.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE

**MANIFOLD ASSEMBLY
SERVICE, REPLACE**

INITIAL SETUP:

Materials/Parts

Detergent, General Purpose (WP 0064, Item 7)
Wiping Rags (WP 0064, Item 12)

Personnel Required

Non-MOS Specific (2)

References

WP 0009

Equipment Condition

Shelter either deployed or struck

SERVICE

Clean components as needed to remove dirt or other debris. Use warm, soapy water and a rag. Dry the components completely.

REPLACE

Remove the Inflation Manifold

The manifold assembly (Figure 1, Item 1) consists of a pressure regulator, a safety check valve, fittings, hoses and the quick disconnect fittings necessary to connect all of the airbeams together, and inflate and deflate all airbeams simultaneously.

The replace procedure consists of: isolating the airbeams, disconnecting the manifold assembly components from the shelter outer main skin attachment points, and installing the replacement manifold assembly.

NOTE

The manifold assembly is installed between the outer main skin and the liner. Open the liner hook and pile fasteners to access the manifold assembly components.

1. Untie liner fasteners to access the manifold assembly (Figure 1, Item 1) components.

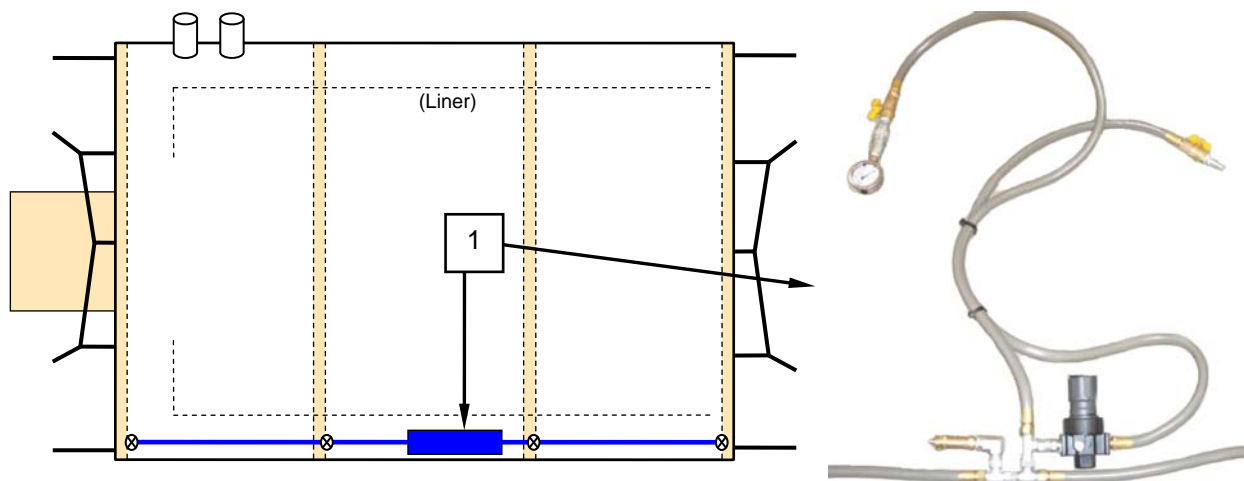


Figure 1. Manifold Assembly Location.

REPLACE - CONTINUED

NOTE

The manifold assembly can be replaced with the tent deployed, but all airbeams must be isolated using the airbeam inflation ball valves.

Ball Valves are open when the valve handle (Figure 2, Item 1) is in-line with the valve body, and closed when the valve handle (Figure 2, Item 2) is across the valve body.

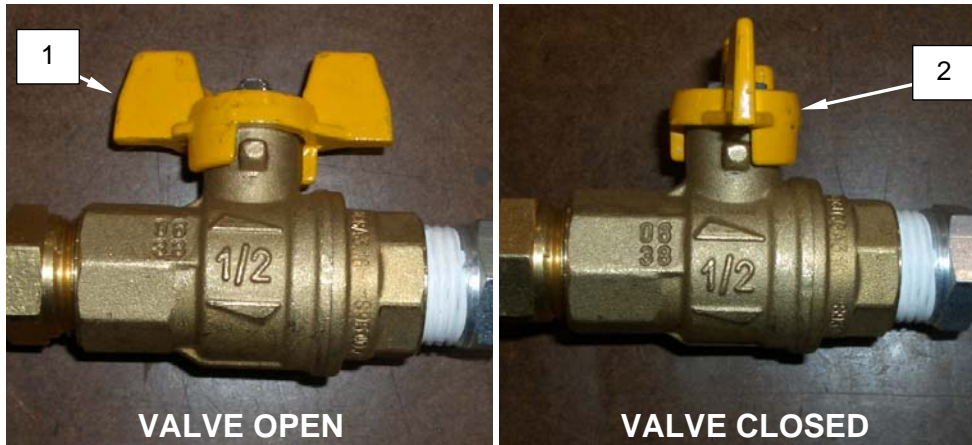


Figure 2. Ball Valve Handle Positions.

2. At the outside of the tent, at each airbeam access pocket (Figure 3, Item 1), close all of the airbeam pigtail ball valves (Figure 3, Item 2) to isolate all of the airbeams individually from the manifold assembly.

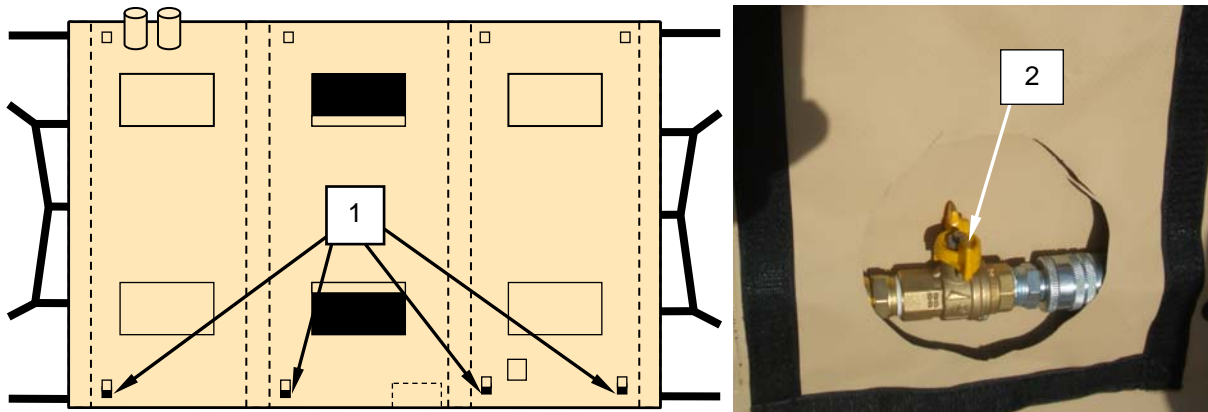


Figure 3. Airbeam Pigtail Ball Valves Closed.

REPLACE - CONTINUED

3. Inside the shelter, at each airbeam ball valve, untie the airbeam ball valve securing ties.
4. At the foot of each airbeam (Figure 4, Item 1), disconnect each manifold assembly air hose female QD fitting (Figure 4, Item 2) from each airbeam inflation pigtail ball valve (Figure 4, Item 3).

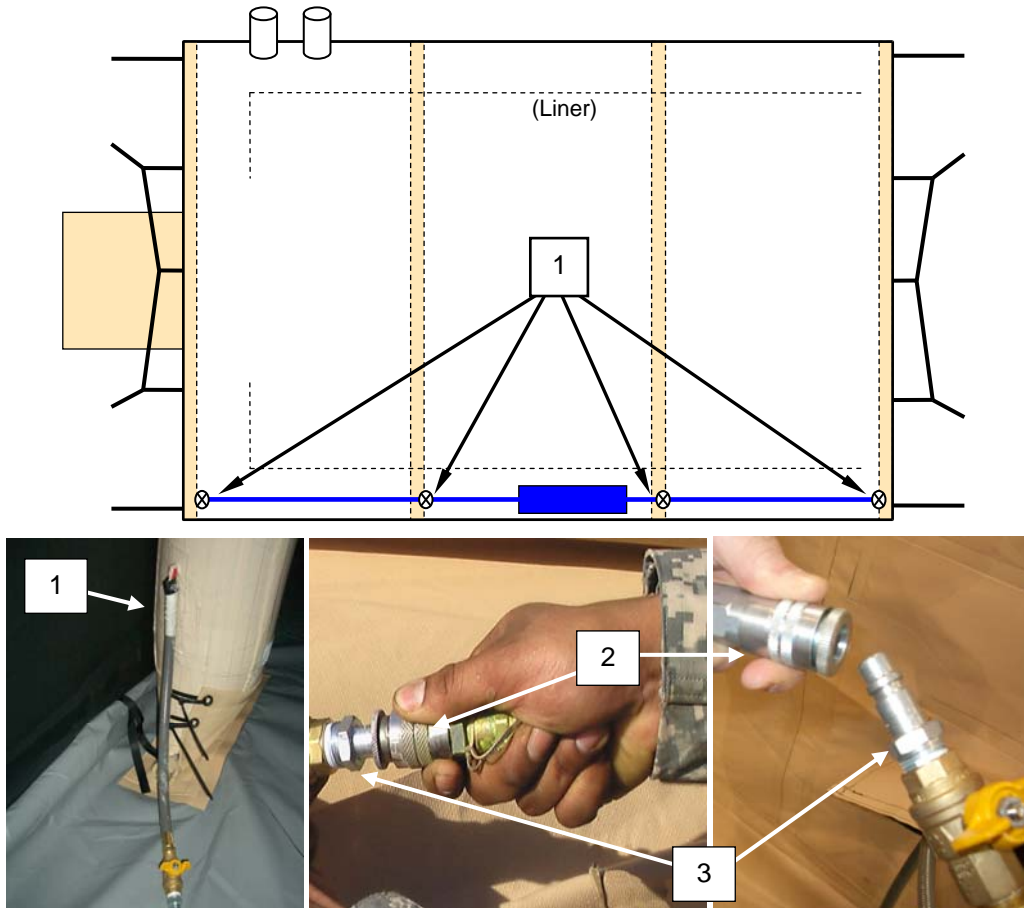


Figure 4. Disconnect Manifold Assembly from Airbeams.

REPLACE - CONTINUED

5. Along the outer main skin, untie the securing straps (Figure 5, Item 1) holding the manifold assembly components, and remove the manifold assembly (Figure 5, Item 2) and air hoses from the shelter.

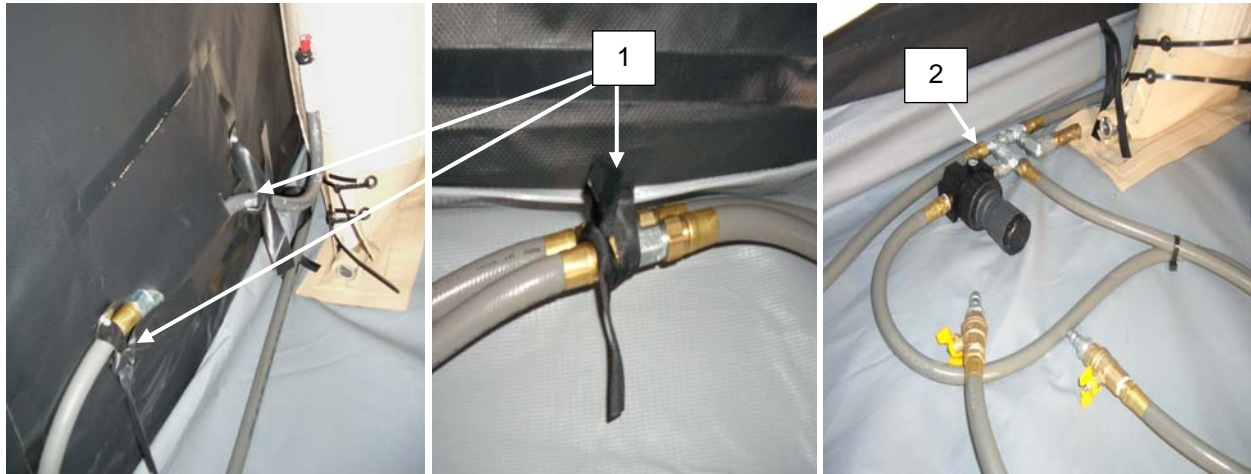


Figure 5. Convenience Outlet Assembly Locations.

END OF TASK

Install Replacement Manifold

NOTE

Orient the replacement manifold assembly near the inflation manifold hose access pocket with the longest hose towards the vestibule end of the shelter, which connects to the end airbeam inflation pigtail ball valve.

Route the manifold air hoses through the airbeam access pocket openings, to enable access to the airbeam inflation pigtail ball valves from the shelter exterior.

1. Position the replacement manifold assembly (Figure 6, Item 1) between the outer main skin and liner, and route the airbeam hoses along the shelter wall with the longest hose (Figure 6, Item 2) towards the end airbeam nearest the vestibule.

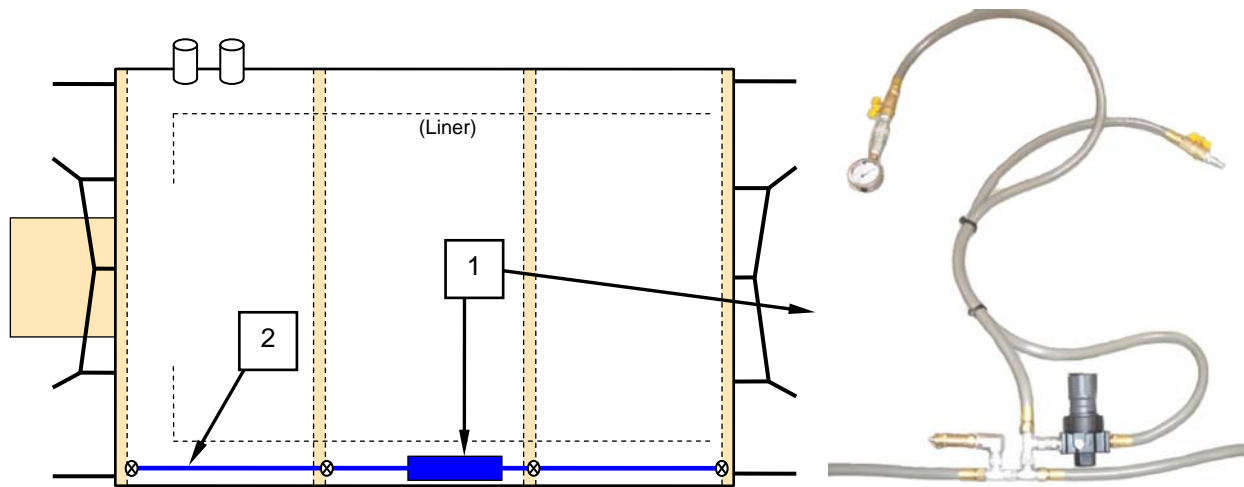


Figure 6. Manifold Assembly Location.

REPLACE - CONTINUED

NOTE

Connect the manifold assembly hoses to the airbeam hoses inside the access pockets.

2. At the foot of each airbeam (Figure 7, Item 1), connect the manifold assembly air hose female QD fittings (Figure 7, Item 2) to each airbeam inflation pigtail ball valve (Figure 7, Item 3).

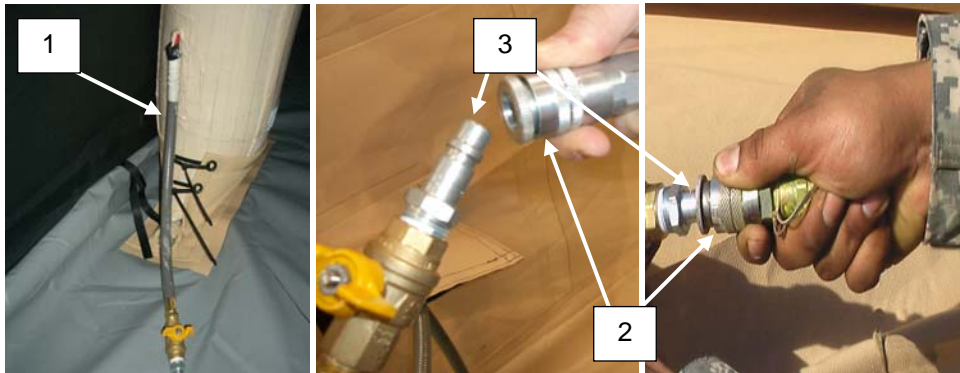
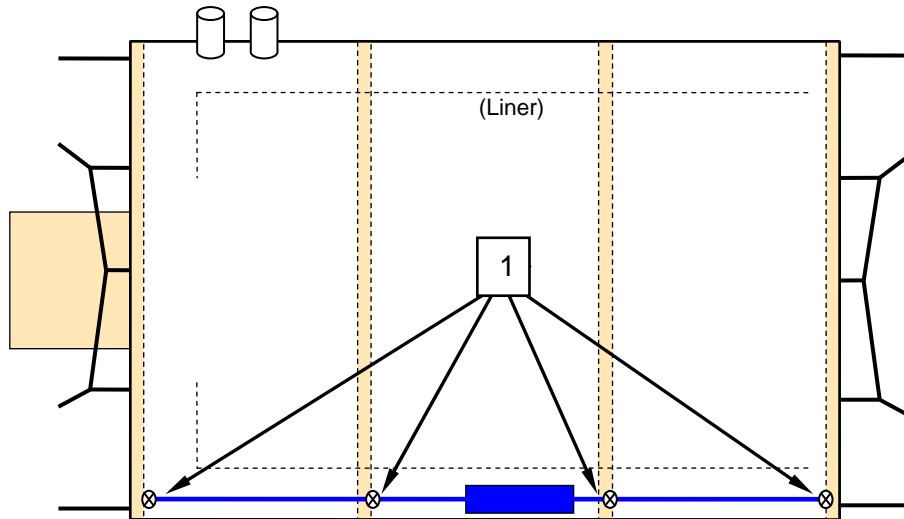


Figure 7. Connect Manifold Assembly to Airbeams.

REPLACE - CONTINUED

3. Along the outer main skin, secure the manifold assembly (Figure 8, Item 1) components and air hoses to the shelter outer main skin with the attached securing straps (Figure 8, Item 2).

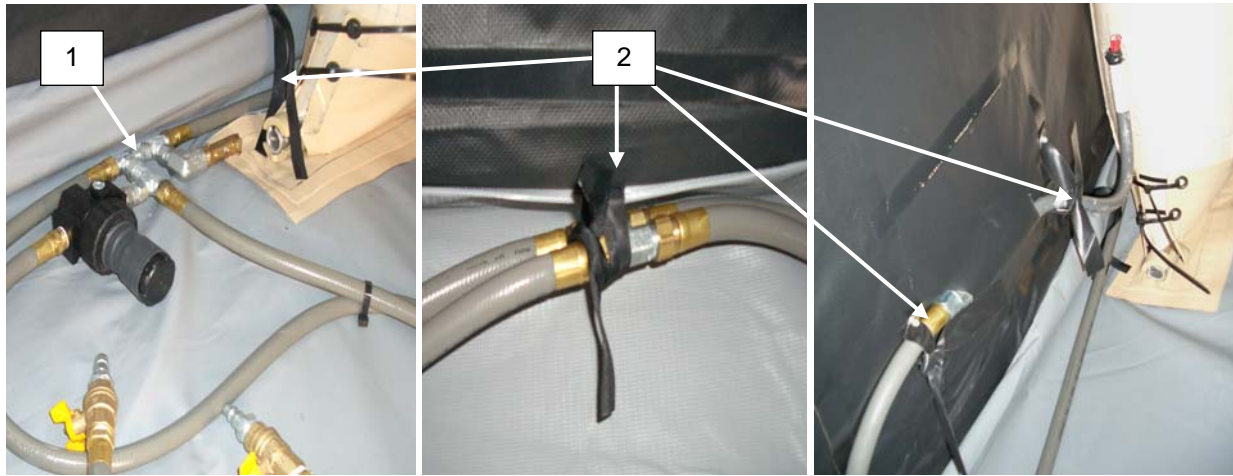


Figure 8. Convenience Outlet Assembly Locations.

4. Ensure that inflation and deflation air hose ball vales are closed.
5. On the inflation manifold side of the tent, at each airbeam access pocket (Figure 9, Item 1), open each of the airbeam pigtail ball valves (Figure 9, Item 2) to connect all of the airbeams to the manifold assembly.

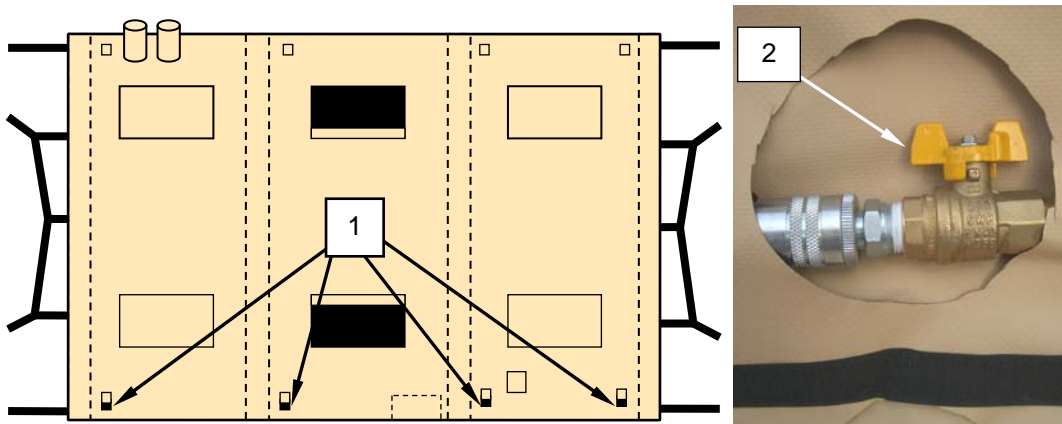


Figure 9. Airbeam Pigtail Ball Valves Closed.

REPLACE - CONTINUED**NOTE**

TEMPER, Air-Supported air pressure is monitored during inflation with an air pressure gauge connected to the deflation hose.

- At the manifold hose access pocket, connect the air pressure gauge female QD fitting (Figure 10, Item 1) to the deflation air hose male QD fitting (Figure 10, Item 2).

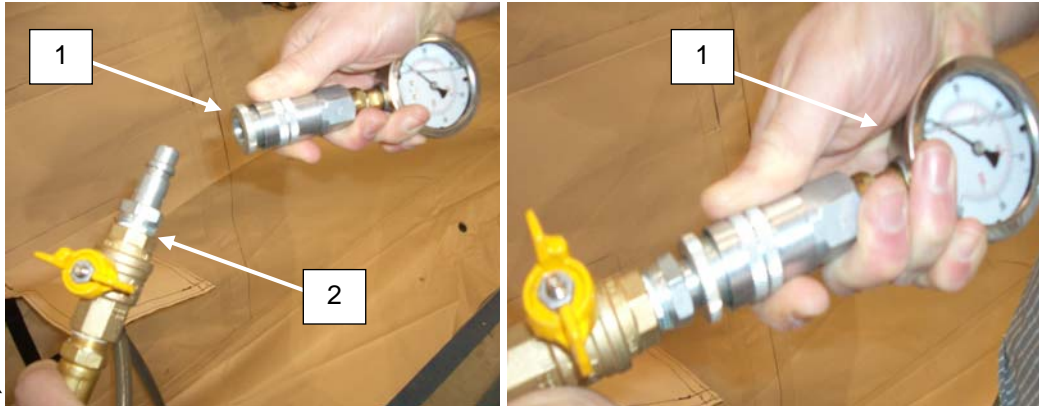


Figure 10. Connect Air Pressure Gauge to Deflation Air Hose.

- Open the deflation air hose ball valve (Figure 11, Item 1), and verify that the TEMPER, Air-Supported is inflated to 50 (\pm 5) PSIG. If the air pressure is not within tolerance refer to WP 0009 'Trouble Shooting Index'.



Figure 11. Open Deflation Air Hose Ball Valve.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
LIGHTING ASSEMBLY
LIGHTING STRAP ASSEMBLY
FLUORESCENT BULB
REPAIR, REPLACE

INITIAL SETUP:**Tools and Special Tools**

Knife, Utility (WP 0065, Item 2)

Personnel Required

Non-MOS Specific (2)

Materials/Parts

Repair Kit (WP 0064, Item 13, 14)

References

WP 0009, WP 0014

Equipment Condition

Shelter deployed or struck

REPAIR**Replace Fluorescent Bulb****WARNING**

Exercise extreme care with lighting equipment. Voltages dangerous to life may be present. Failure to do so can cause death or serious injury by electrocution.

1. At the power distribution box, turn off the power to the lighting assembly by placing the LEFT and RIGHT LIGHTS toggle switches (Figure 1, Item 1) in the OFF (Down) position.

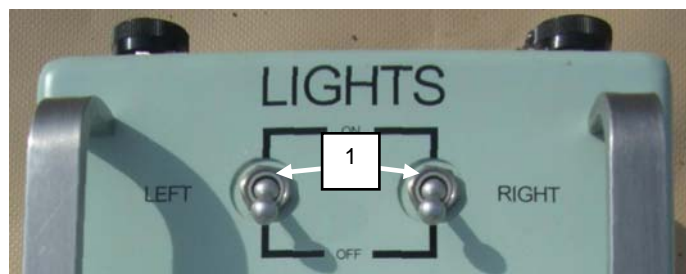


Figure 1. Left and Right Lighting Toggle Switches.

REPAIR - CONTINUED

NOTE

A step aid may be required to remove lighting fixtures (Figure 2, Item 1).

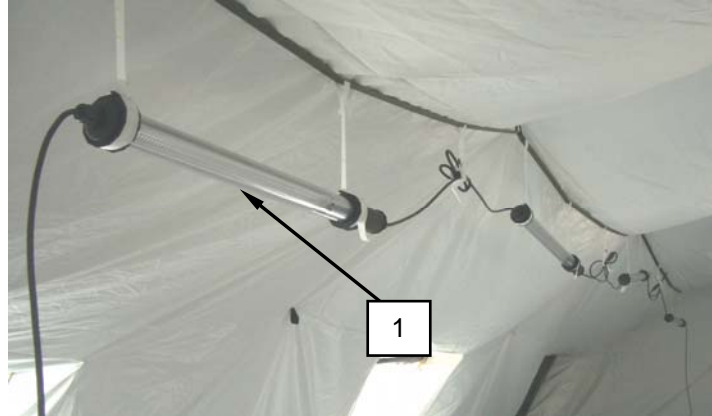


Figure 2. Disconnect Lighting Fixtures.

2. Disconnect the hook and loop connecting straps (Figure 3, Item 1) that secure the light fixture power cords (Figure 3, Item 2) to the main liner, and unplug the light fixture power cords on both ends of the fixture with the fluorescent bulb to be replaced.



Figure 3. Disconnect Light Fixture Power Cords.

REPAIR - CONTINUED**CAUTION**

Lighting fixtures are suspended by connecting straps. Ensure that fixtures are supported while removing the straps. Failure to do so can result in damage to equipment.

3. Supporting the lighting fixture, disconnect the connecting straps (Figure 4, Item 1) that connect the lighting fixture to the main liner. Move the lighting fixture to a work surface.

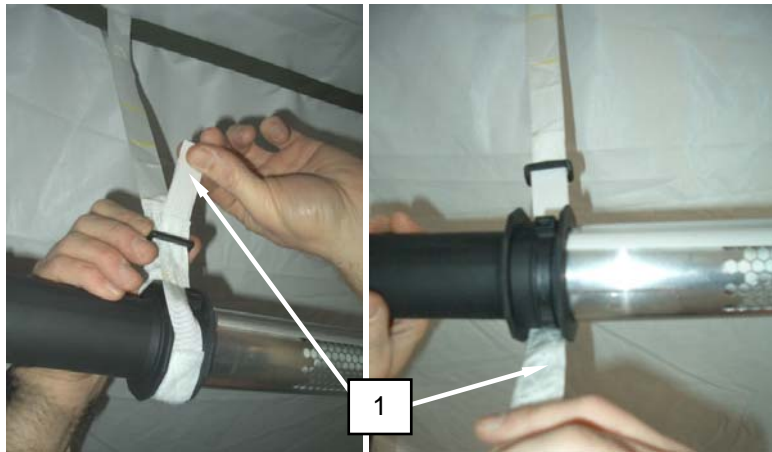


Figure 4. Disconnect Lighting Fixture from Main Liner.

REPAIR - CONTINUED

CAUTION

Do not remove the end cap when removing the wire tie. Failure to do so can result in damage to equipment.

NOTE

Refer to Figure 5 for fluorescent bulb replacement procedural Steps 4 through 11.

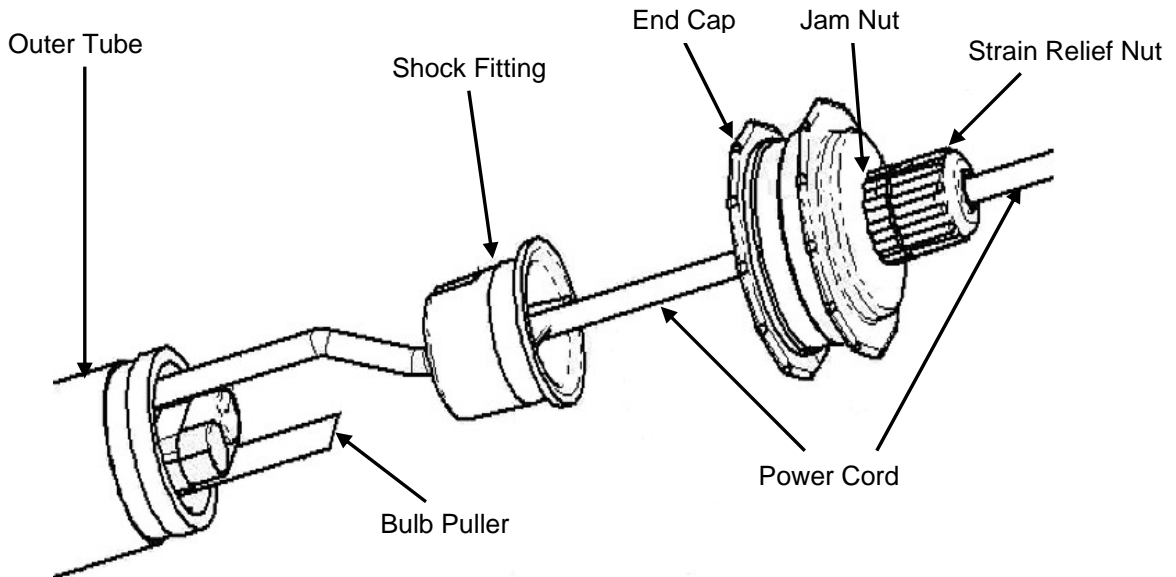


Figure 5. Lighting Fixture Fluorescent Bulb Access.

4. At the smaller end cap of the lighting fixture, cut and remove the wire tie (Figure 6, Item 1) from the smaller end cap. Do not remove the end cap.

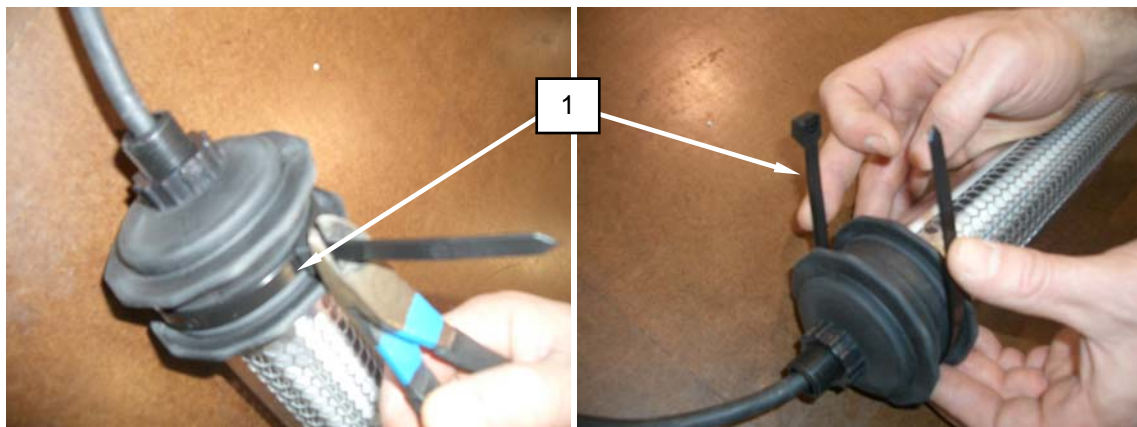


Figure 6. Remove Wire Tie from Lighting Fixture Small End Cap.

REPAIR - CONTINUED

5. Loosen the strain relief nut (Figure 7, Item 1) from the strain relief and slide the strain relief nut and sleeve (Figure 7, Item 2) up the power cord and out of the way.

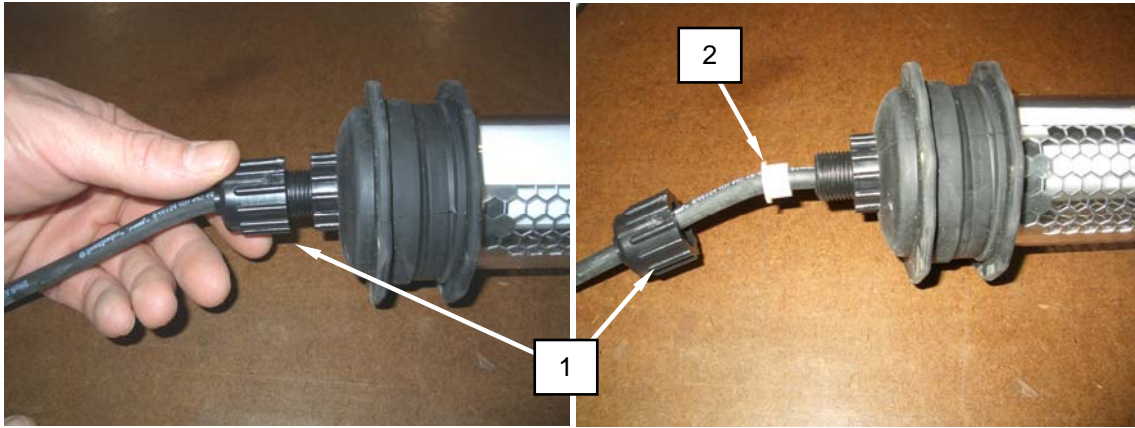


Figure 7. Loosen Strain Relief Nut.

CAUTION

Do not loosen jam nut on the end cap while removing the end cap. Failure to do so can result in damage to equipment.

6. Gently pry the end cap (Figure 8, Item 1) from the lighting fixture outer tube (Figure 8, Item 2). Do not loosen the jam nut (Figure 8, Item 3).

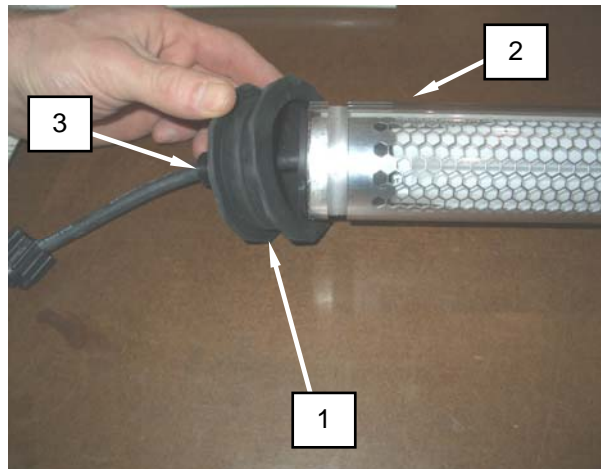


Figure 8. Remove End Cap.

REPAIR - CONTINUED**CAUTION**

Do not pull on the power cord while removing the shock fitting. Failure to do so can result in damage to equipment.

7. Carefully remove shock fitting (Figure 9, Item 1), using care not to pull on the power cord (Figure 9, Item 2).

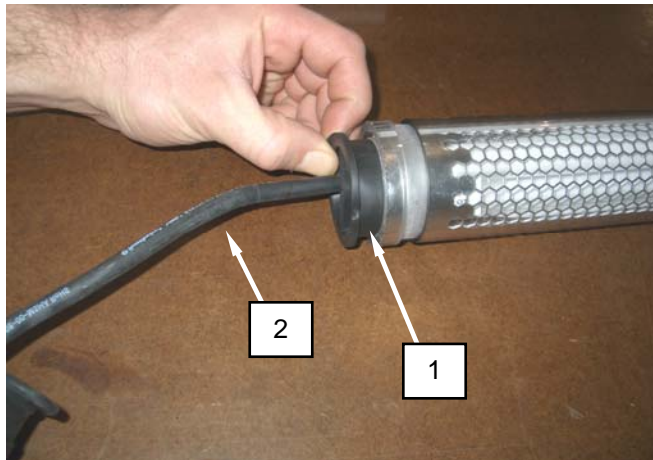


Figure 9. Remove Shock Fitting.

CAUTION

Take care when using the bulb puller, as the fluorescent bulb is tightly wedged in the socket. Failure to do so can result in damage to equipment.

8. Grasp bulb puller (Figure 10, Item 1) and gently but firmly pull the fluorescent bulb free from the socket and the outer tube. Take care since the bulb is tightly wedged in the socket.



Figure 10. Grasp Bulb Puller and Remove Fluorescent Bulb.

REPAIR - CONTINUED**NOTE**

The bulb puller strip is wrapped lengthwise along the fluorescent bulb.

9. Grasp and pull the bulb puller free of the pins on the end of the fluorescent bulb and dispose of the bulb properly. Retain the bulb puller for reuse on the replacement fluorescent bulb.
10. Inspect the outer tube and remove any dirt or debris, as necessary.



Figure 11. Outer Tube, Bulb and Replacement Fluorescent Bulb.

11. Holding the replacement fluorescent bulb, press the holes on the bulb puller over the pins on the replacement fluorescent bulb (Figure 12) to install the bulb puller.

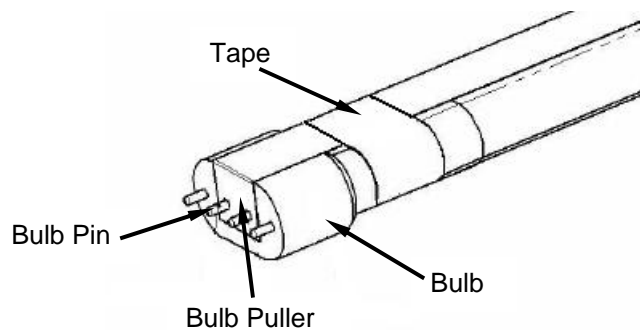


Figure 12. Install Bulb Puller on Replacement Fluorescent Bulb.

REPAIR - CONTINUED

- Slide the replacement fluorescent bulb with bulb puller installed, into the outer tube, and align the replacement fluorescent bulb so that the bulb pins will intersect with the receptacle jack holes in the lighting fixture socket (Figure 13).



Figure 13. Insert Replacement Fluorescent Bulb into Outer Tube.

- Gently push down on the replacement fluorescent bulb and seat the bulb pins into the socket.
- With any 115 VAC convenience outlet, plug the light in and verify that the bulb is seated properly and illuminates.

CAUTION

Do not pull on the power cord while installing the shock fitting. Failure to do so can result in damage to equipment.

- Carefully install the shock fitting (Figure 14, Item 1), using care not to pull on the power cord (Figure 14, Item 2).

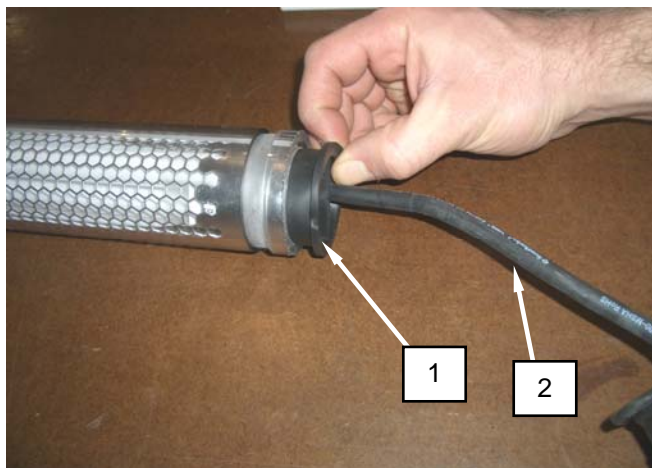


Figure 14. Install Shock Fitting.

REPAIR - CONTINUED**CAUTION**

When installing the end cap, ensure that the end cap is fully seated in the groove on the outer tube. Failure to do so can compromise the environment seal on the lighting fixture and could result in damage to equipment.

16. Install the end cap (Figure 15, Item 1) on the lighting fixture outer tube with the end cap fully seated in the groove on the outer tube (Figure 15, Item 2).

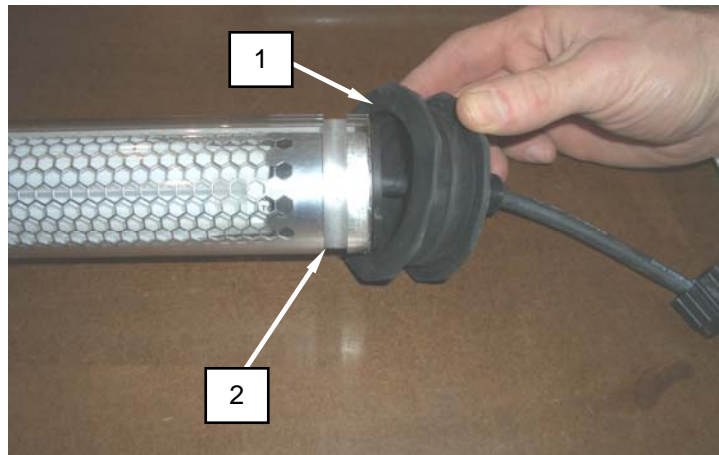


Figure 15. Install End Cap on Outer Tube.

17. Insert the sleeve (Figure 16, Item 1) and strain relief nut (Figure 16, Item 2), and tighten the strain relief nut.

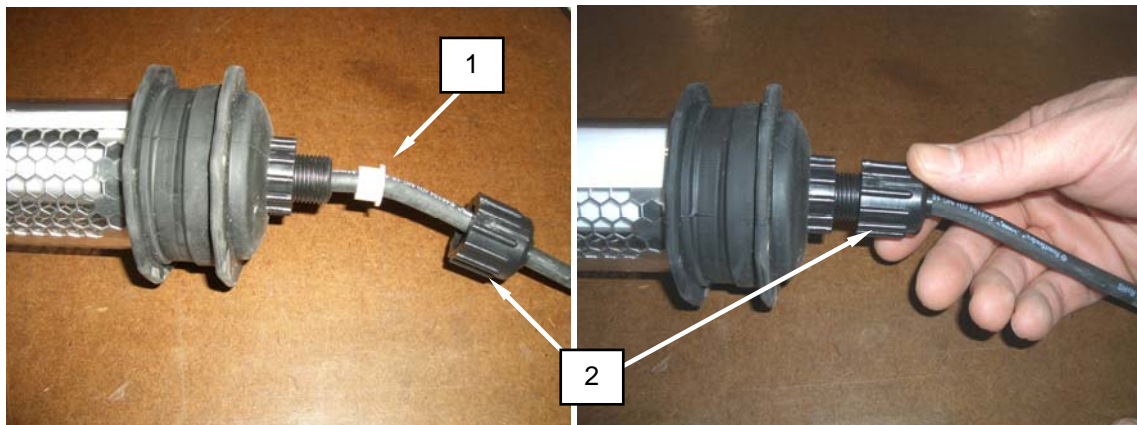


Figure 16. Tighten Strain Relief Nut.

REPAIR - CONTINUED

18. Install a 150 lb. fastening strap (zip tie) (Figure 17, Item 1) from the shelter repair kit onto the groove in the end cap (Figure 17, Item 2) to secure the lighting fixture. Remove excess wire tie material.

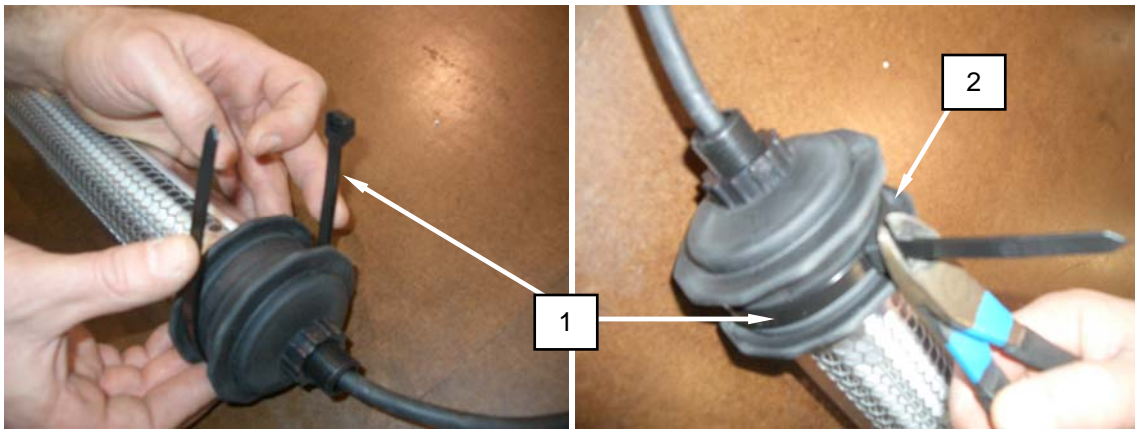


Figure 17. Install Wire Tie on Lighting Fixture Small End Cap.

19. At the power distribution box, verify that power is off to the lighting assembly by ensuring that the LEFT and RIGHT LIGHTS toggle switches (Figure 18, Item 1) in the OFF (Down) position.

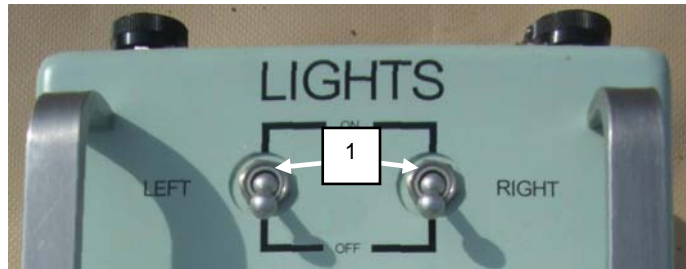


Figure 18. Left and Right Lighting Toggle Switches.

REPAIR - CONTINUED

WARNING

Exercise extreme care with lighting equipment. Voltages dangerous to life may be present. Failure to do so can cause death or serious injury by electrocution.

NOTE

A step aid may be required to install the lighting fixture. For best results, use two personnel to attach the lighting fixture.

Install the lighting fixtures so that the male power cords are towards the power distribution box.

Each fluorescent light fixture is attached to the lighting strap with hook and loop connecting straps affixed to the lighting strap. When wrapping the connecting strap around the lighting fixture, ensure that the hook and loop strips are facing outward.

20. Wrap the end (Figure 19, Item 1) of the connecting strap around the end slot in the light fixture (Figure 19, Item 2), and through the D-ring (Figure 19, Item 3) in the connecting strap.

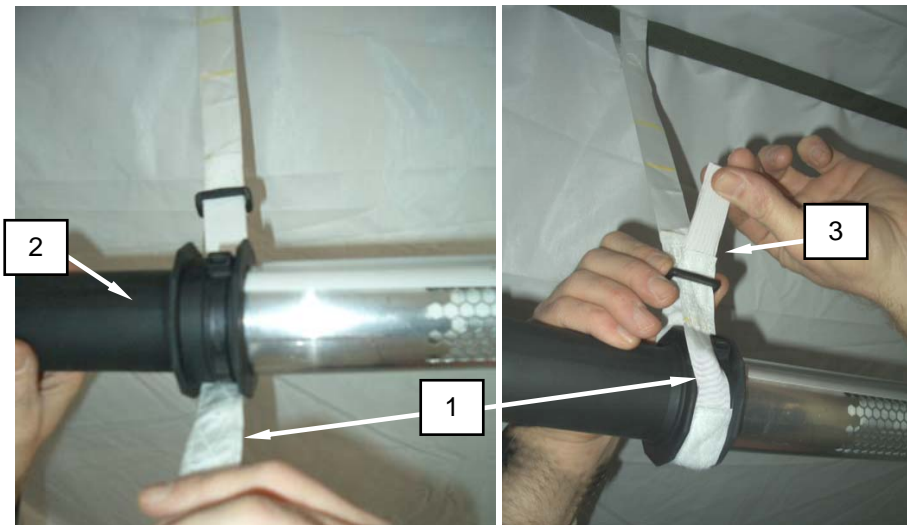


Figure 19. Wrap Connecting Strap around Lighting Fixture.

REPAIR - CONTINUED

21. Pull the connecting strap tight (Figure 20, Item 1), then fold the strap back upon itself around the light fixture (Figure 20, Item 2), pressing the hook and loop sections together to secure the strap.

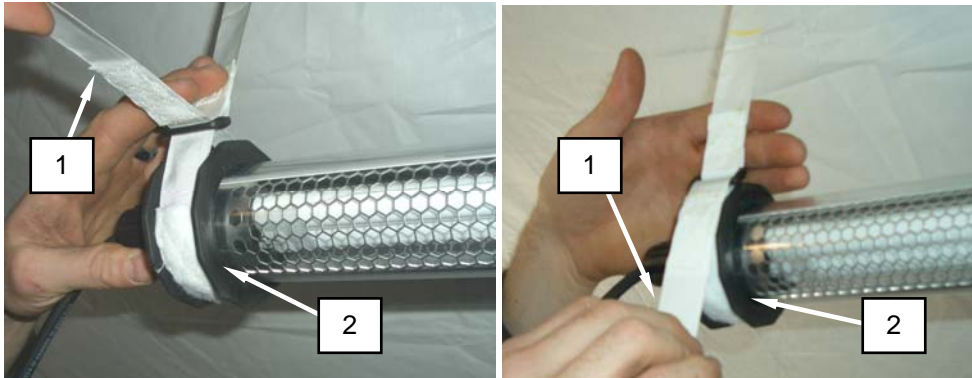


Figure 20. Fasten Connector Strap Hook and Loop Tape Sections.

22. Repeat Steps 20 and 21 for the opposite end of the light fixture.
23. On each end of the lighting fixture, connect the male power cord plug (Figure 21, Item 1) into the next light fixture's female power cord receptacle (Figure 21, Item 2).

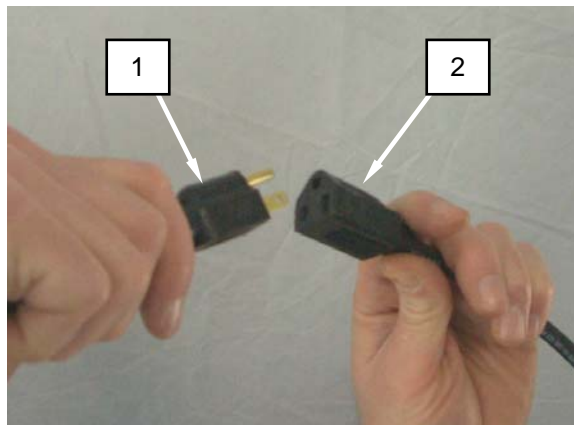


Figure 21. Connect Light Fixture Power Cords.

REPAIR - CONTINUED**NOTE**

The lighting fixture power cords are secured to the lighting strap with hook and loop connecting straps.

24. At each end of the lighting fixture, gather and loop excess slack in the power cords (Figure 22, Item 1) and fasten the connecting strap (Figure 22, Item 2) around the looped power cord.

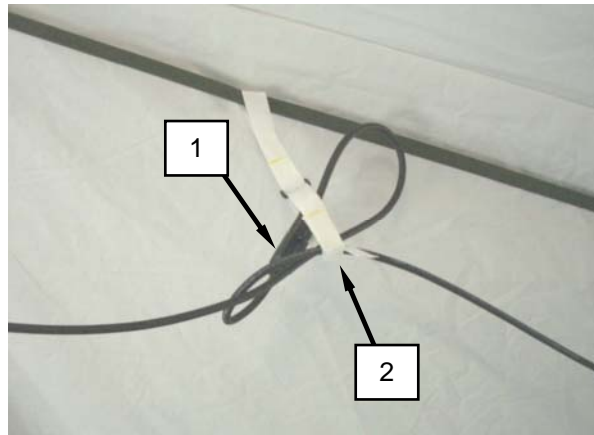


Figure 22. Secure Excess Lighting Power Cord Slack.

25. At the power distribution box, turn both left and right LIGHTS toggle switches (Figure 23, Item 1) to the ON (Up) position.

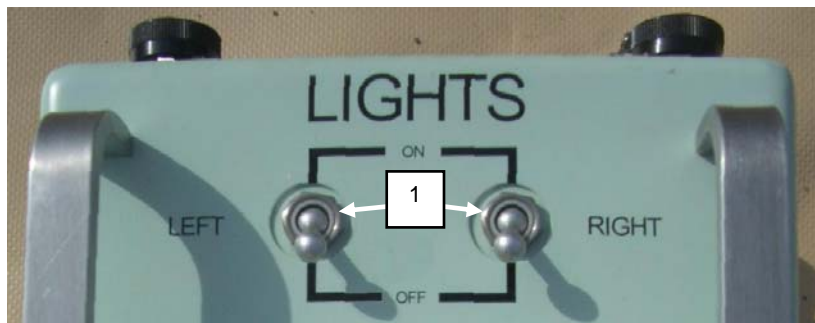


Figure 23. Left and Right Lighting Toggle Switches.

26. Verify visually that all TEMPER, Air-Supported left and right lighting units illuminate. If this does not occur, refer to WP 009 Troubleshooting Index.

END OF TASK

REPLACE**Remove Lighting Assembly**

1. At the power distribution box, turn off the power to the lighting assembly by placing the LEFT and RIGHT LIGHTS toggle switches (Figure 24, Item 1) in the OFF (Down) position.

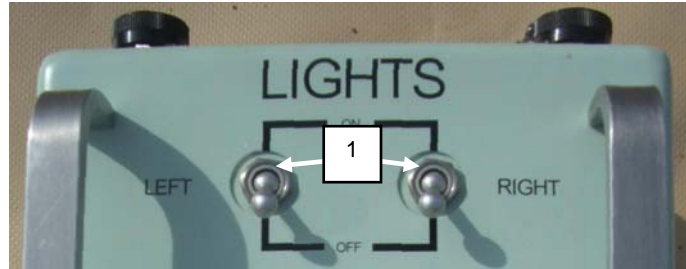


Figure 24. Left and Right Lighting Toggle Switches.

WARNING

Exercise extreme care with lighting equipment. Voltages dangerous to life may be present. Failure to do so can cause death or serious injury by electrocution.

NOTE

A step aid may be required to remove lighting fixtures.

2. Disconnect the hook and loop connecting straps (Figure 25, Item 1) that secure the light fixture power cords (Figure 25, Item 2) to the main liner, and unplug the light fixture power cords on both ends of the fixture with the fluorescent bulb.



Figure 25. Disconnect Light Fixture Power Cords.

REPLACE - CONTINUED**CAUTION**

Lighting fixtures are suspended by connecting straps. Ensure that fixtures are supported while removing the straps. Failure to do so can result in damage to equipment.

3. Supporting the lighting fixture, disconnect the connecting straps (Figure 26, Item 1) that connect the lighting fixture to the main liner. Lower the lighting assembly from main liner ceiling.

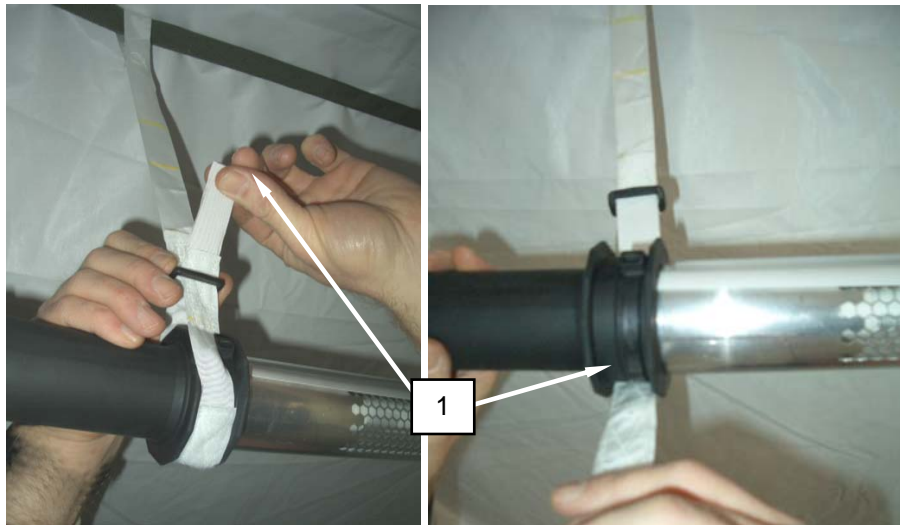


Figure 26. Disconnect Lighting Fixture from Main Liner.

END OF TASK**Install Replacement Lighting Assembly**

1. At the power distribution box, verify that power is turned off to the lighting assembly by ensuring that the LEFT and RIGHT LIGHTS toggle switches (Figure 27, Item 1) in the OFF (Down) position.

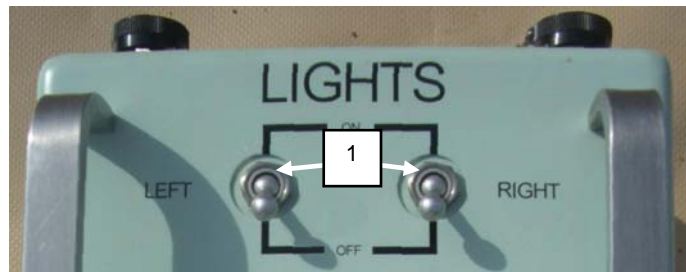


Figure 27. Left and Right Lighting Toggle Switches.

REPLACE – CONTINUED

WARNING

Exercise extreme care with lighting equipment. Voltages dangerous to life may be present. Failure to do so can cause death or serious injury by electrocution.

NOTE

A step aid may be required to install the lighting fixture. For best results, use two personnel to attach the lighting fixture.

Install the lighting fixtures so that the male end of the power cords is towards the vestibule end of the tent where the power distribution box is located.

Each fluorescent light fixture is attached to the lighting strap with hook and loop connecting straps affixed to the lighting strap. When wrapping the connecting strap around the lighting fixture, ensure that the hook and pile fasteners are facing outward.

2. Wrap the end (Figure 28, Item 1) of the connecting strap around the end slot in the light fixture (Figure 28, Item 2), and through the D-ring (Figure 28, Item 3) in the connecting strap.

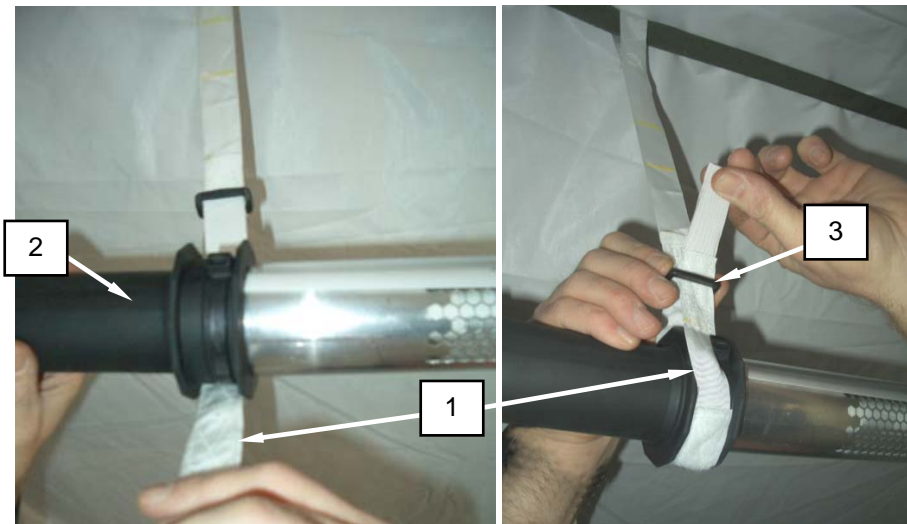


Figure 28. Wrap Connecting Strap around Lighting Fixture.

REPLACE - CONTINUED

3. Pull the connecting strap tight (Figure 29, Item 1), then fold the strap back upon itself around the light fixture (Figure 29, Item 2), pressing the hook and loop sections together to secure the strap.

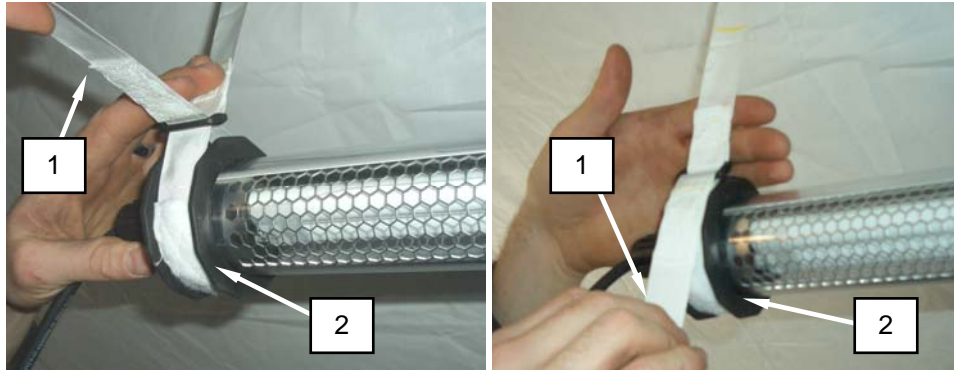


Figure 29. Fasten Connector Strap Hook and Loop Tape Sections.

4. Repeat Steps 2 and 3 for the opposite end of the light fixture.
5. On each end of the lighting fixture, connect the male power cord plug (Figure 30, Item 1) into the next light fixture's female power cord receptacle (Figure 30, Item 2).

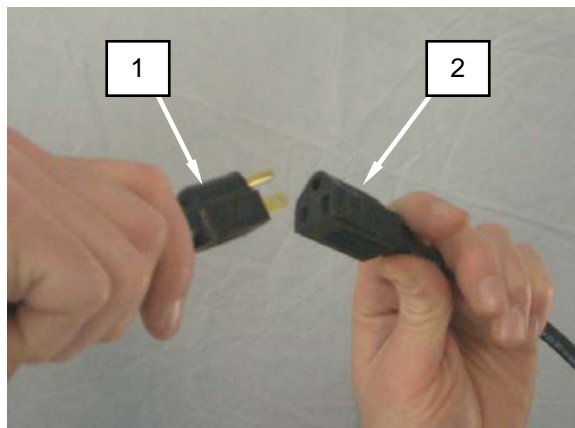


Figure 30. Connect Light Fixture Power Cords.

REPLACE - CONTINUED**NOTE**

The lighting fixture power cords are secured to the lighting strap with hook and loop connecting straps.

6. At each end of the lighting fixture, gather and loop excess slack in the power cords (Figure 31, Item 1) and fasten the connecting strap (Figure 31, Item 2) around the looped power cord.

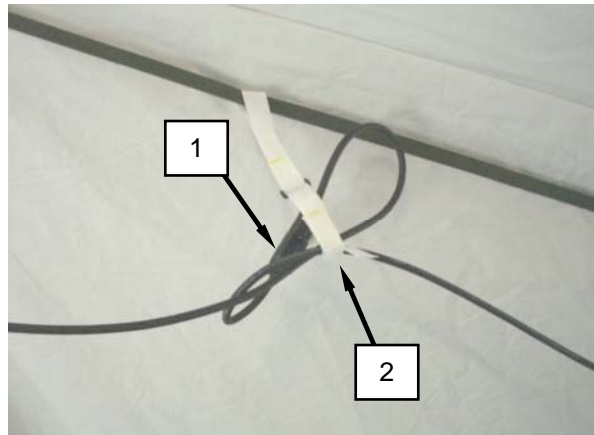


Figure 31. Secure Excess Lighting Power Cord Slack.

7. At the Power Distribution Box, turn both left and right LIGHTS toggle switches (Figure 32, Item 1) to the ON (Up) position.

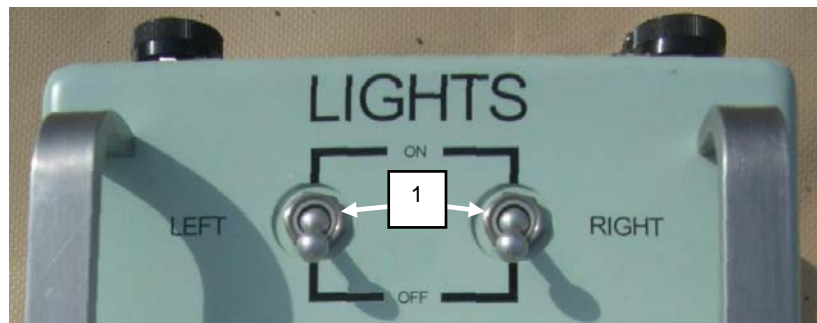


Figure 32. Left and Right Lighting Toggle Switches.

8. Verify visually that all TEMPER, Air-Supported left and right lighting units illuminate. If this does not occur, refer to WP 0009 Troubleshooting Index.

END OF TASK

REPLACE - CONTINUED**Remove Lighting Strap Assembly****NOTE**

A step aid or suitable device may be required to replace the lighting strap assembly.

1. Remove all of the lighting fixtures attached to the lighting strap assembly IAW the procedure in this Work Package entitled 'Replace Lighting Assembly.'
2. Remove the lighting strap assembly by releasing the end of the strap (Figure 33, Item 1) through the double D-ring fasteners (Figure 33, Item 2) at both ends of the shelter.

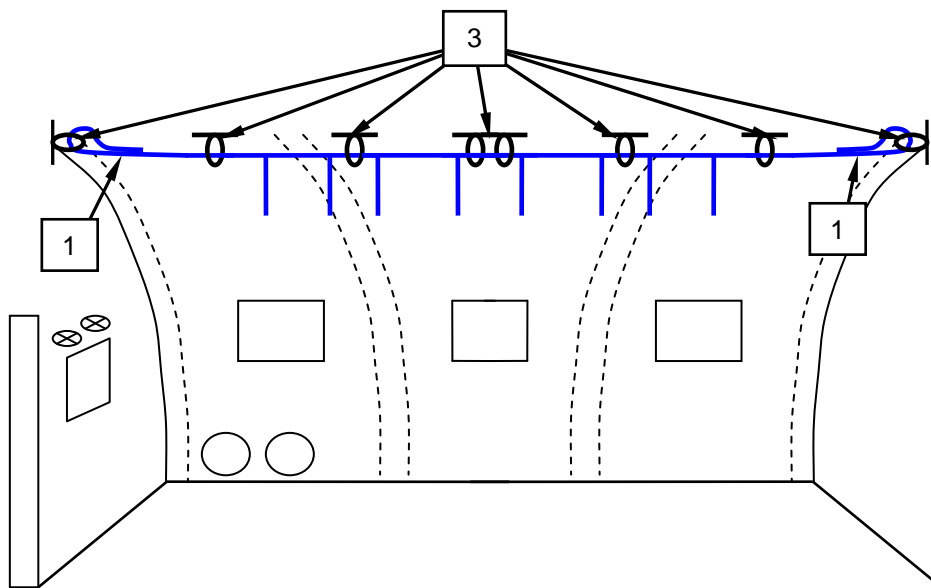
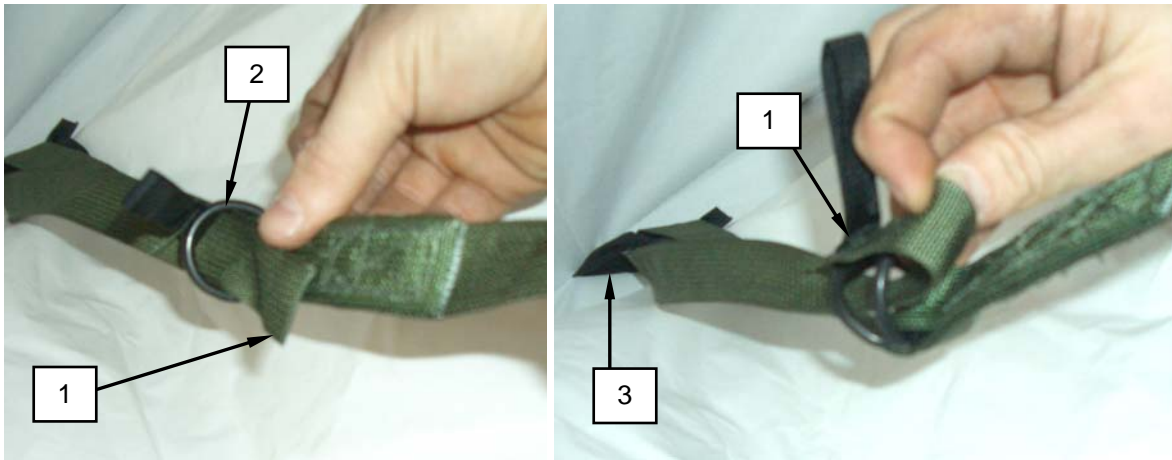


Figure 33. Remove Lighting Strap Assembly.

3. Thread the lighting strap assembly sequentially through all of the loops in the tent liner ceiling (Figure 33, Item 3) to remove the strap.

END OF TASK

REPLACE - CONTINUED

Install Lighting Strap Assembly

1. Lay out lighting strap assembly (Figure 34, Item 1) along the length of the tent floor.

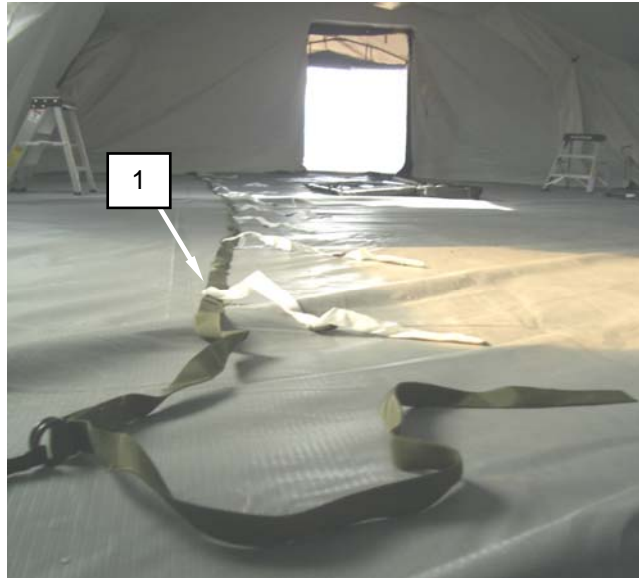


Figure 34. Lay Out Lighting Strap Assembly.

2. Pass the end (Figure 35, Item 1) of the lighting strap assembly through the loop on the liner (Figure 35, Item 2) at the junction of the liner end panel and ceiling.

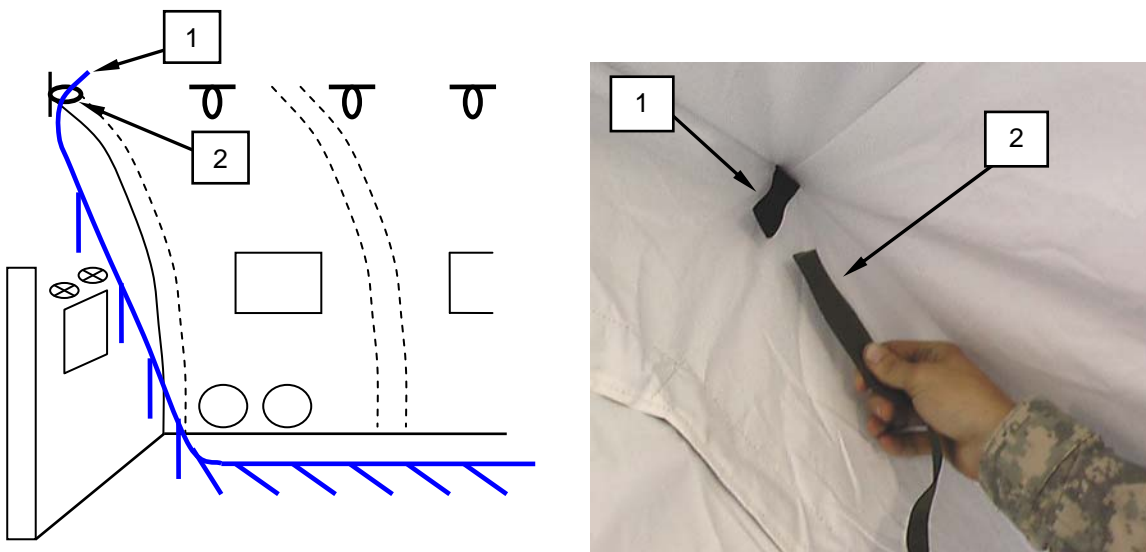


Figure 35. Pass End of Lighting Strap Assembly through Liner End Panel Loop.

REPLACE - CONTINUED

3. Thread the end of the lighting strap assembly (Figure 36, Item 1) through the double D-ring (Figure 36, Item 2) that is attached to the lighting strap assembly, then fold the strap back and pass it back through the first D-ring (Figure 36, Item 3) towards the end panel loop.

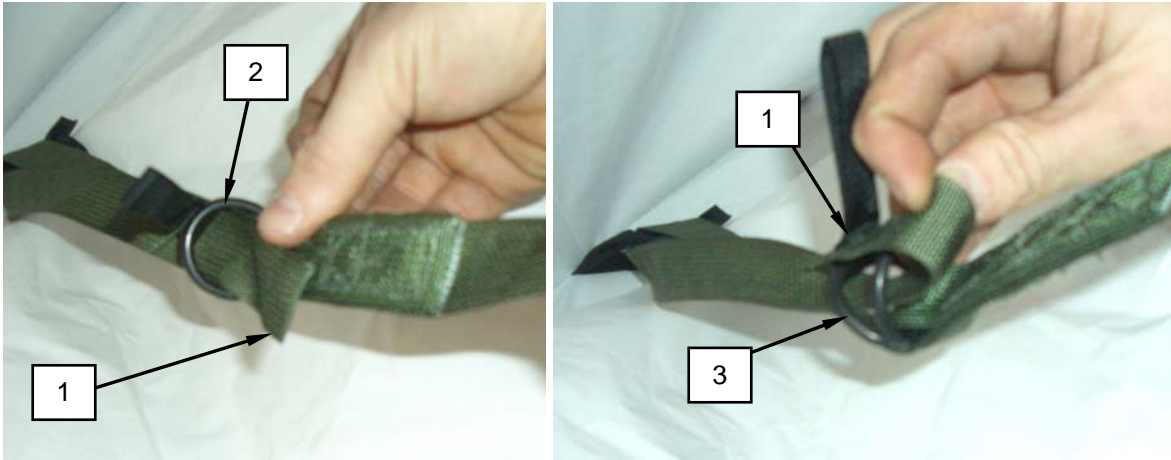


Figure 36. Fasten Lighting Strap Assembly through Double D-Ring.

4. Pull the end (Figure 37, Item 1) of the lighting strap assembly tight towards the liner end panel loop to secure the lighting strap assembly.



Figure 37. Pull Lighting Strap Assembly Secure.

REPLACE - CONTINUED

5. Taking the free end of the lighting strap assembly (Figure 38, Item 1) with the connector straps, thread the lighting strap assembly sequentially through each loop (Figure 38, Item 2) along the length of the tent liner ceiling, and through the final loop at the opposite end panel of the tent liner.

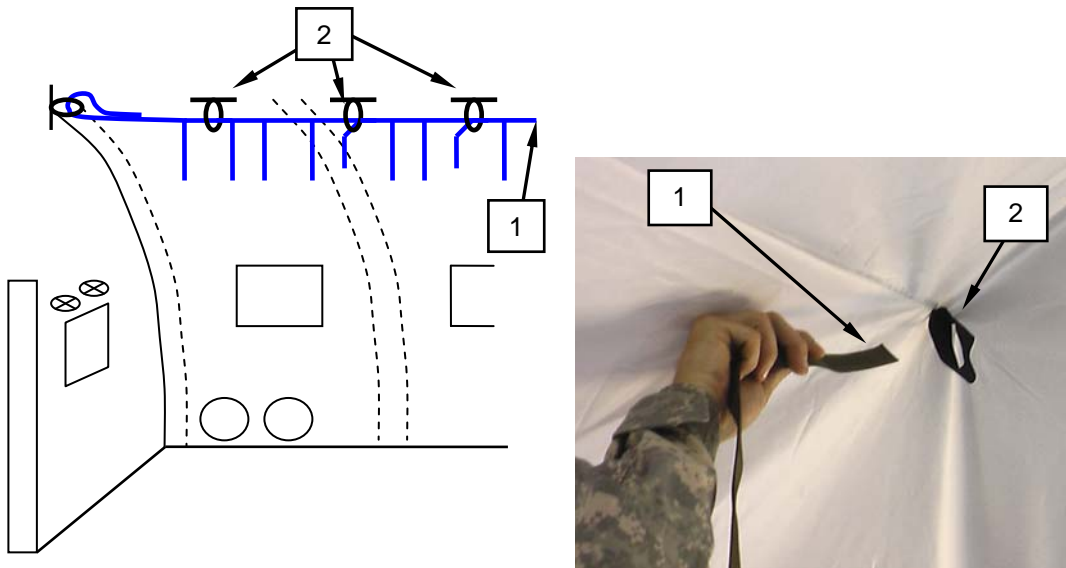


Figure 38. Pass Lighting Strap Assembly through Liner Ceiling Loops.

6. When the final loop is reached at the end panel, repeat Steps 4 and 5 to secure the opposite end (Figure 39, Item 1) of the lighting strap assembly.

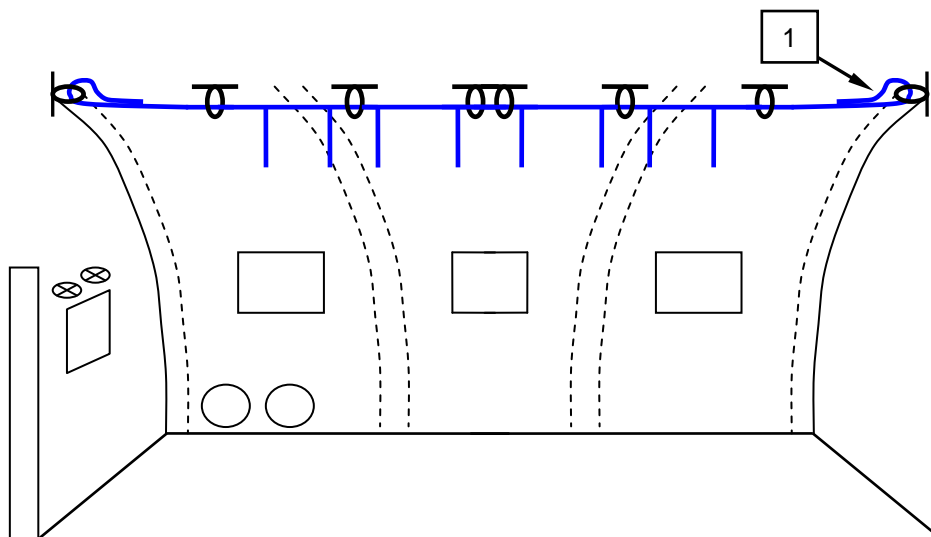


Figure 39. Lighting Strap Assembly Installed.

7. Inspect the replacement lighting strap assembly IAW WP 0014.
8. Re-install the lighting assemblies IAW the section of this Work Package entitled 'Install Replacement Lighting Assembly' for all lighting units removed during this replace procedure.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
LIGHTING EXTENSION CORD
REPLACE

INITIAL SETUP:**Equipment Condition**

Shelter deployed or struck

REPLACE**WARNING**

Exercise extreme care with power distribution or lighting equipment. Voltages dangerous to life may be present. Failure to do so may cause death or serious injury.

NOTE

The lighting extension cords provided with the TEMPER, Air-Supported shelter connect the left and right lighting units to the power distribution box. The lighting extension cords are routed between the liner and the outer skin and are fastened with securing ties. The replace procedures are the same for both left and right lighting extension cords.

1. At the power distribution box, place the LEFT and RIGHT LIGHTS toggle switches (Figure 1, Item 1) in the OFF (Down) position.

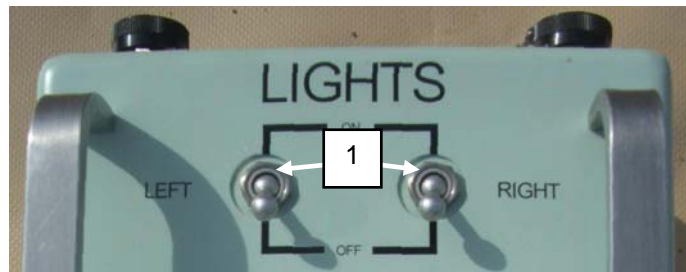


Figure 1. Left and Right Lighting Toggle Switches.

REPLACE - CONTINUED

- At the power distribution box, disconnect the left or right lighting extension cord plug (Figure 2, Item 1).



Figure 2. Disconnect Lighting Extension Cord Plug.

- Replace the threaded jack cover (Figure 2, Item 2) on the power distribution box receptacle jack.

REPLACE - CONTINUED

4. At the vestibule end of the tent, disconnect the end lighting fixture male power plug (Figure 3, Item 1) from the lighting extension cord (Figure 3, Item 2) female receptacle jack (Figure 3, Item 3).

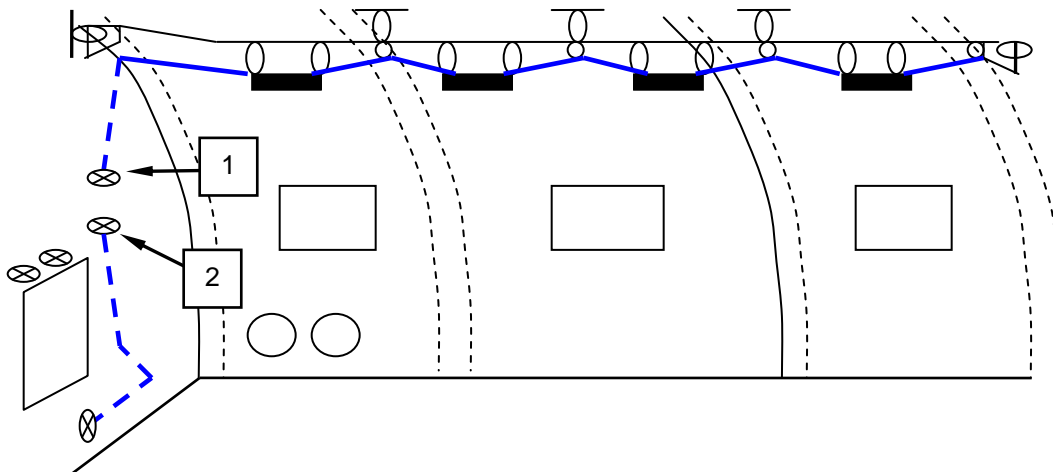
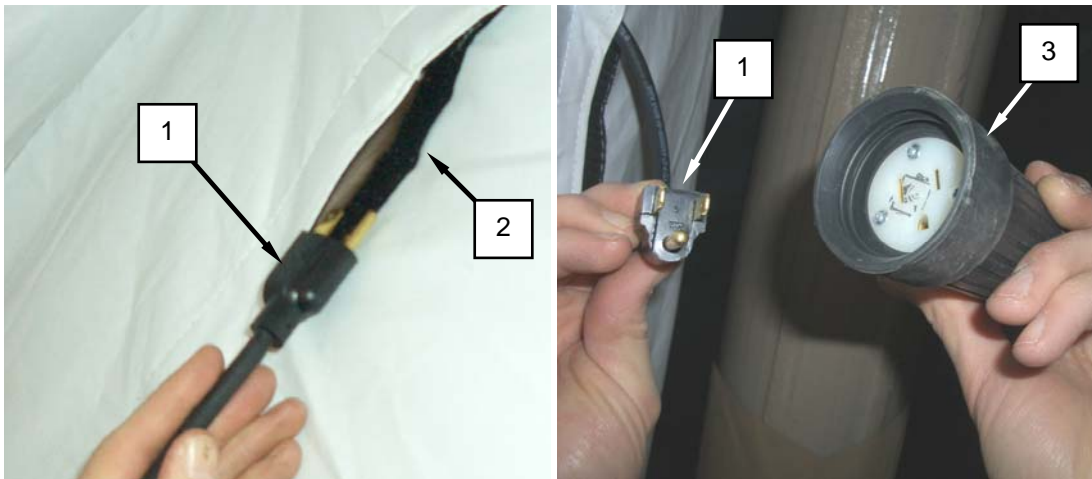


Figure 3. Disconnect End Lighting Unit Plug from Lighting Extension Cord Jack.

REPLACE - CONTINUED

NOTE

Lighting extension cords are installed between the outer skin and liner. Open the liner hook and loop tape fasteners to access the lighting extension cord.

The left lighting extension cord is routed through a securing tie above the vestibule doorway.

5. At the lighting extension cord to be replaced, locate and untie any securing straps (Figure 4, Item 1) holding the lighting extension cord (Figure 4, Item 2) to the outer skin or tent liner. Remove the lighting extension cord.

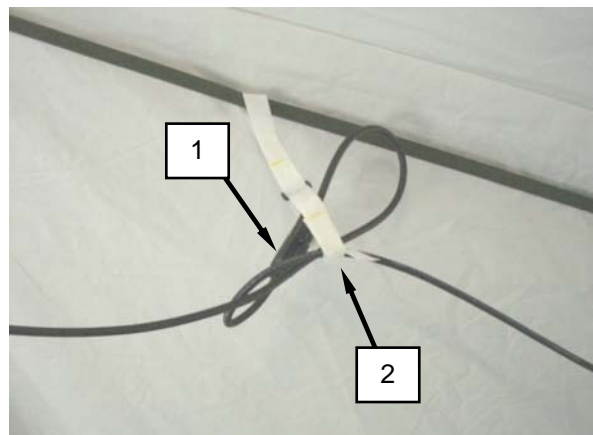
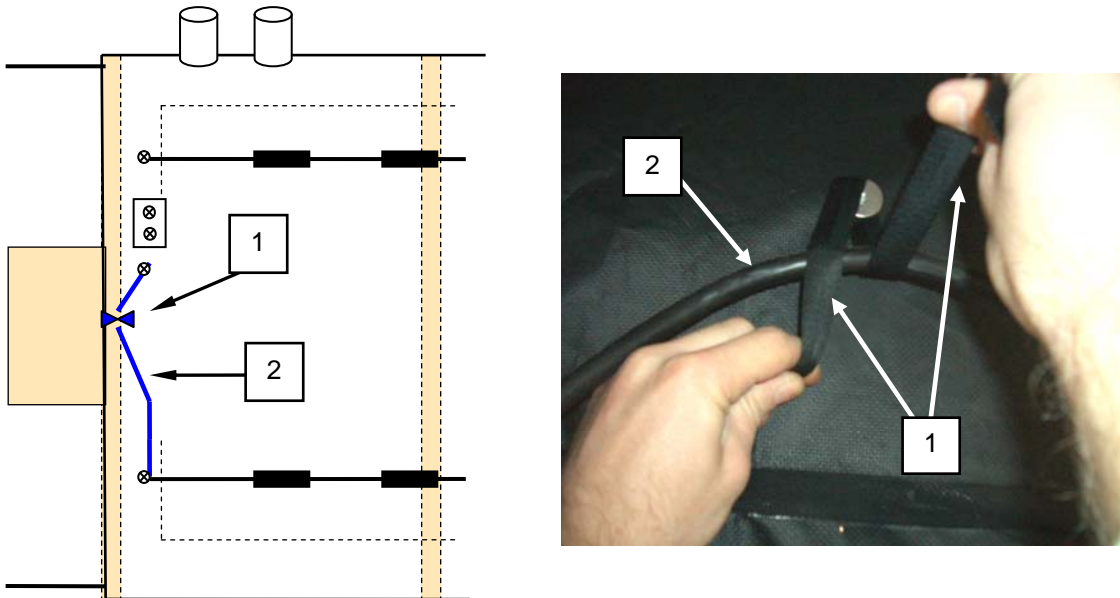


Figure 4. Remove Lighting Extension Cord.

REPLACE - CONTINUED

WARNING

Ensure that the lighting power extension cord is routed and connected with slack for reliable electrical connection prior to fastening any securing ties or applying power. Failure to do so could cause serious injury or death from electrocution.

NOTE

The lighting extension cords are routed to the left or right end lighting units through the liner at the junction of the liner end panel and the liner ceiling.

6. Route the new lighting extension cord (Figure 5, Item 1) from the power distribution box to the end lighting unit between the tent outer skin and liner. Ensure that the lighting extension cord has slack at both ends prior to connecting power plugs or fastening any securing ties (Figure 5, Item 2).

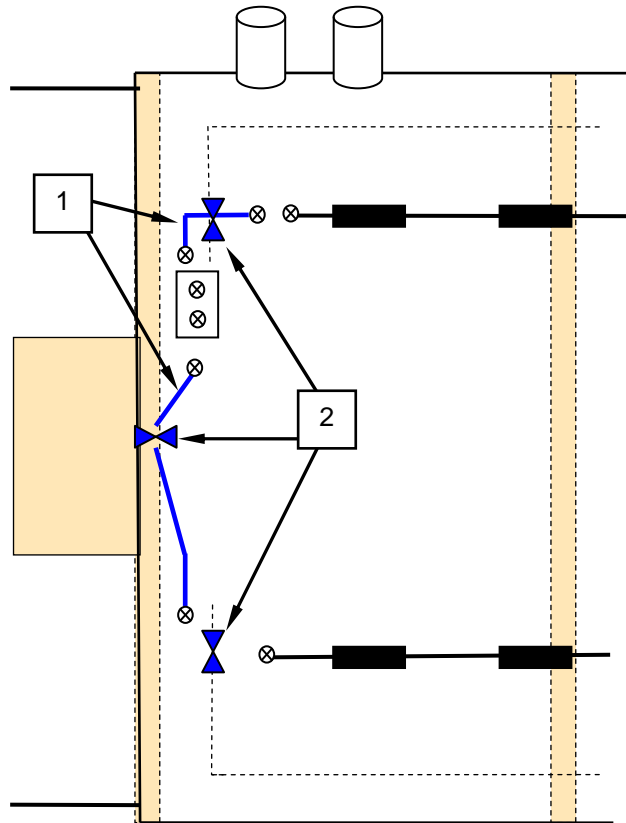


Figure 5. Route Lighting Extension Cord.

REPLACE - CONTINUED

7. Connect the end lighting fixture male power plug (Figure 6, Item 1) to the lighting extension cord (Figure 6, Item 2) female receptacle jack (Figure 6, Item 3).

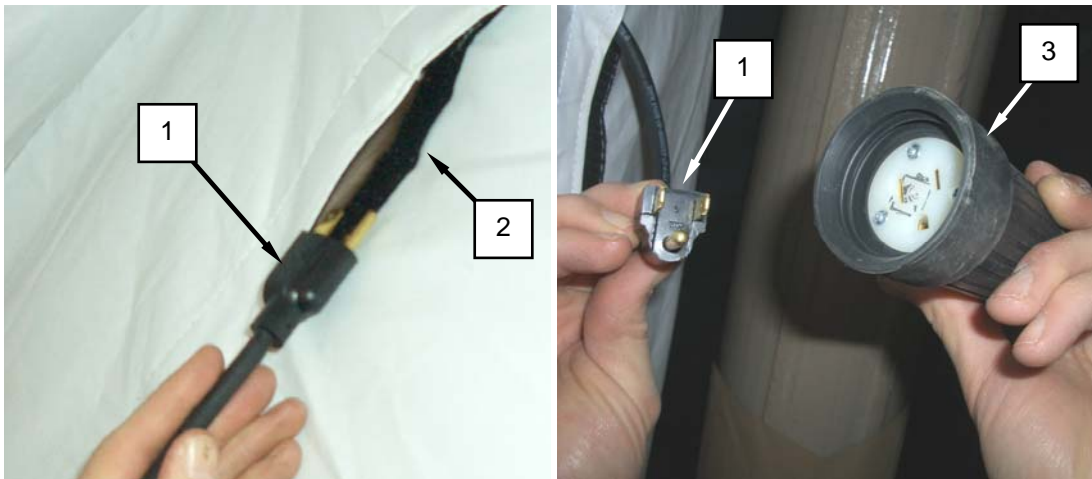


Figure 6. Connect End Lighting Unit to Lighting Extension Cord.

8. Depending on whether the LEFT or RIGHT lighting extension cord is being replaced, at the power distribution box, unscrew and remove the threaded cover (Figure 7, Item 1) from J5 LEFT LIGHT or J6 RIGHT LIGHT (Figure 7, Item 2) receptacle jack, respectively.

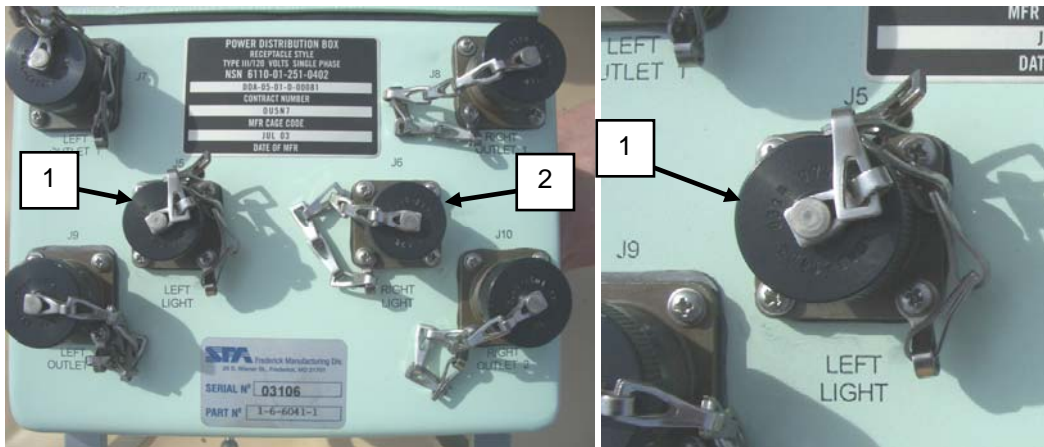


Figure 7. Remove Light Jack Cover.

REPLACE - CONTINUED

- Align the slot (Figure 8, Item 1) on the lighting power extension cable plug (Figure 8, Item 2) to the key (Figure 8, Item 3) on the receptacle jack (Figure 8, Item 4). For this procedure J5 LEFT LIGHT is shown. The procedure is the same for the RIGHT power extension cord, using J6 RIGHT LIGHT.

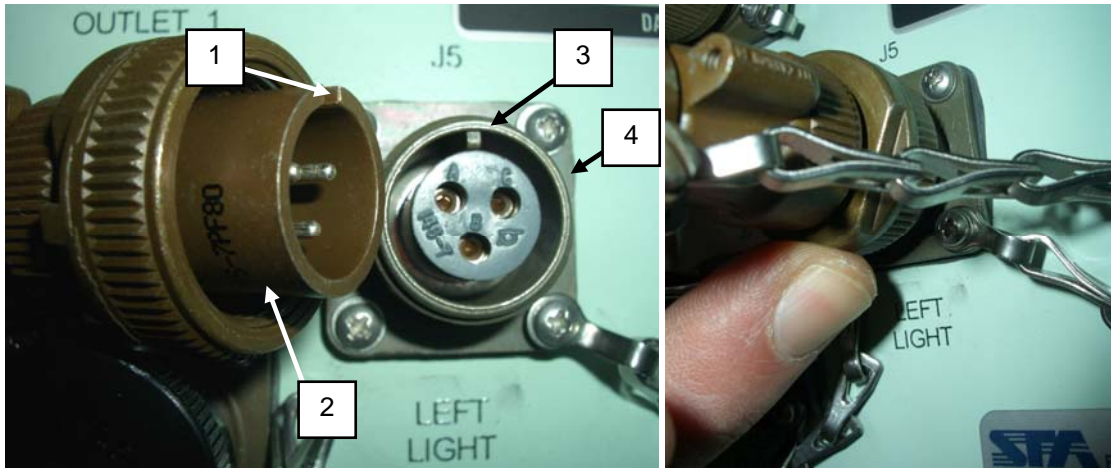


Figure 8. Connect Power Extension Cord Plug to Power Distribution Jack.

WARNING

Fully seat the lighting power extension cable plug into the jack for reliable electrical connection of the plug pins. Failure to do so could cause serious injury or death from electrocution or damage to equipment.

- With the key aligned in the slot, press plug down firmly on the lighting power extension plug connector shell (Figure 8, Item 2) to fully seat the connector plug onto the receptacle jack (Figure 8, Item 4).
- Thread and tighten the (Figure 8, Item 2) plug connector shell to secure the lighting power connection.

REPLACE - CONTINUED

12. At the end lighting unit, locate and tie the securing strap (Figure 9, Item 1) on the liner ceiling to secure the lighting extension cord (Figure 9, Item 2) to the tent liner.

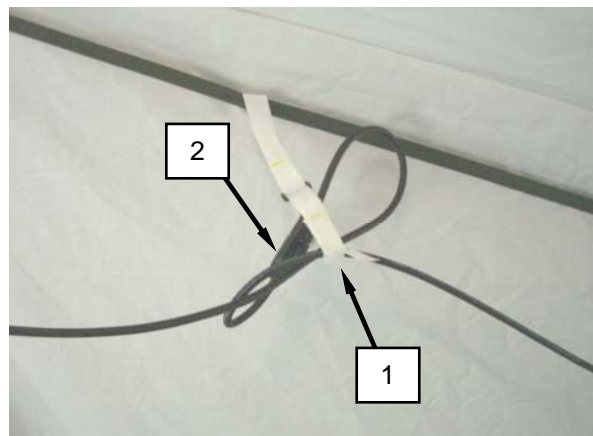
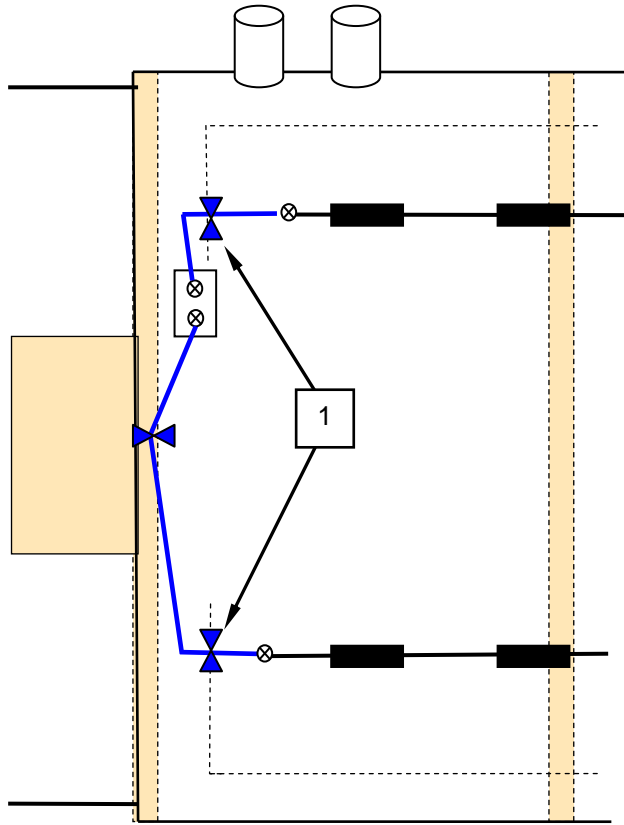


Figure 9. Secure Lighting Extension Cord.

13. If the right lighting extension cord is being replaced, proceed to Step 15.

REPLACE - CONTINUED

- 14. Fasten the left lighting extension cord (Figure 10, Item 1) to the securing tie (Figure 10, Item 2) located above the vestibule doorway.

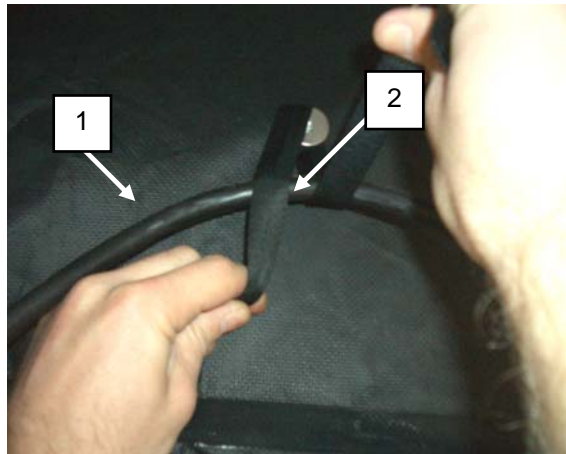
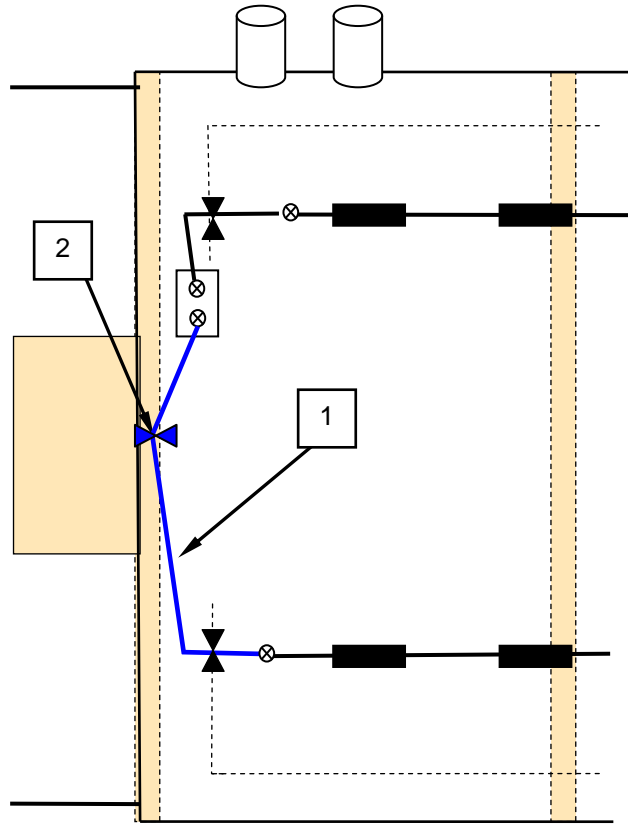


Figure 10. Secure Doorway Tie.

REPLACE - CONTINUED

15. On the front of the Power Distribution Box, turn both left and right LIGHTS toggle switches (Figure 11, Item 1) to the ON (Up) position.

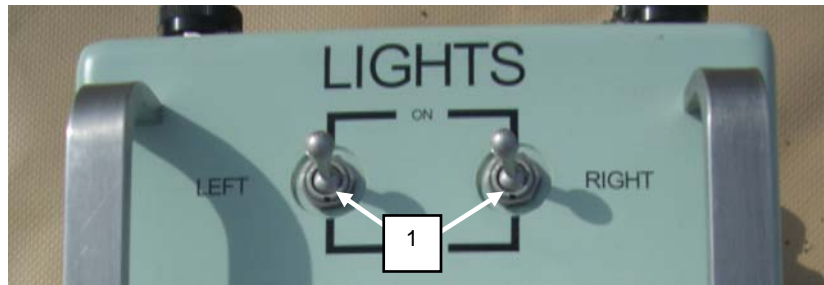


Figure 11. Left and Right Lighting Toggle Switches.

16. Verify visually that all TEMPER, Air-Supported left and right lighting units illuminate. If this does not occur, refer to 0009 'Troubleshooting Index'.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
POWER DISTRIBUTION STAND STRAP AND BLOCK ASSEMBLY
REPLACE

INITIAL SETUP:**Personnel Required**

Non-MOS Specific (2)

Equipment ConditionShelter either deployed or struck
Power Disconnected**References**

WP 0007, WP 0029, WP 0030

REPLACE**WARNING**

Exercise extreme care when disconnecting power distribution equipment. Voltages dangerous to life may be present. Failure to do so may cause death or serious injury by electrocution.

NOTE

Power distribution equipment is installed between the outer skin and liner. Open the liner hook and loop tape fasteners to access power distribution equipment.

1. Qualified personnel should disconnect the external power supply at the source.
2. Remove the power distribution box IAW WP 0007, paragraph 'Remove Power Distribution and Lighting Kits'.

NOTE

Marking and recording the location of the power distribution box stand footer and block on the airbeam will make installation easier.

3. Remove the power distribution box stand IAW WP 0007, paragraph 'Remove Power Distribution and Lighting Kits'.

REPLACE - CONTINUED

NOTE

A step aid may be required to detach the power distribution strap and block assembly from the airbeam.

- Using a step aid at the airbeam (Figure 1, Item 1) on the vestibule end of the shelter, open the airbeam attachment band (Figure 1, Item 2) by separating the hook and pile fastening straps (Figure 1, Item 3) on the airbeam attachment band.

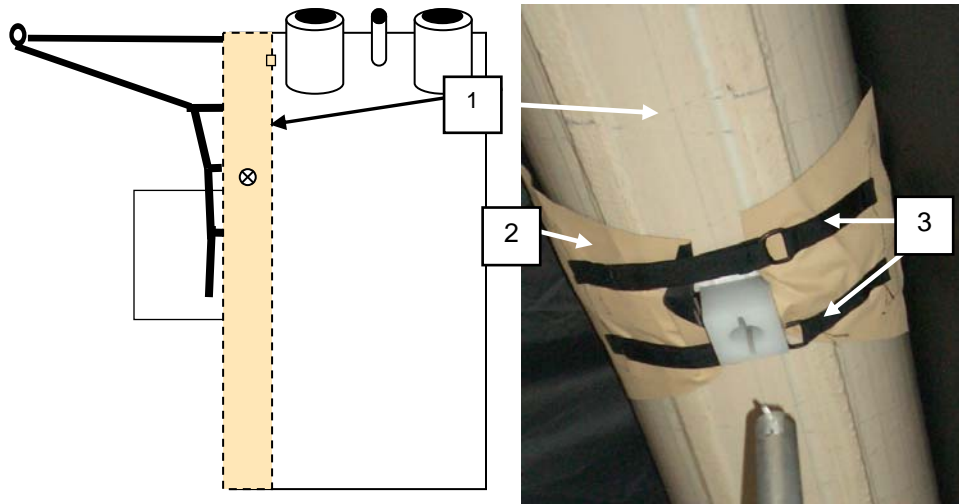


Figure 1. Airbeam Attachment Band over Power Distribution Block.

- Open and remove the power distribution strap and block assembly (Figure 2, Item 1) from the airbeam (Figure 2, Item 3) by separating the hook and pile fastening straps (Figure 2, Item 3) on the power distribution strap.

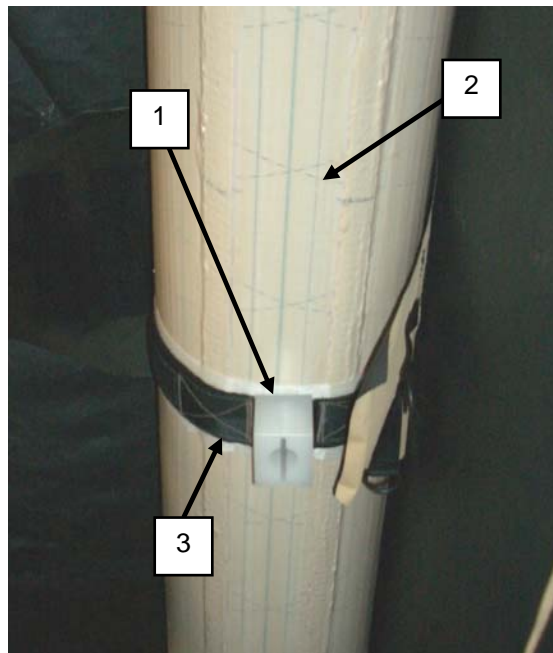


Figure 2. Power Distribution Strap and Block Assembly.

REPLACE - CONTINUED

- Using a step aid, position and attach the replacement power distribution strap and block assembly (Figure 3, Item 1) on the airbeam (Figure 3, Item 3) using the hook and pile fastening straps (Figure 3, Item 3) on the power distribution strap.

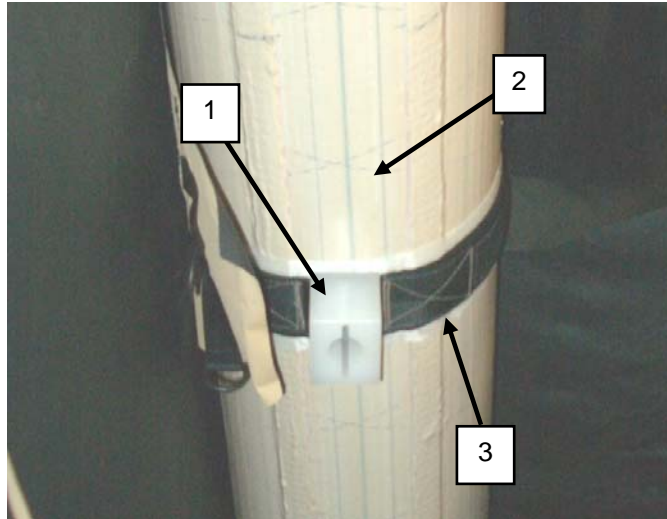


Figure 3. Install Power Distribution Strap and Block Assembly.

- Fasten the airbeam attachment band (Figure 4, Item 1) over the power distribution strap and block assembly (Figure 4, Item 2) using the hook and pile fastening straps (Figure 4, Item 3) on the airbeam attachment band.

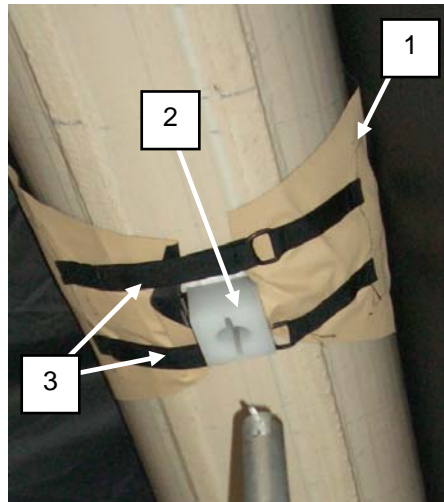


Figure 4. Attach Airbeam Attachment Band.

- Install the power distribution box stand IAW WP 0029.

REPLACE - CONTINUED

WARNING



Exercise extreme care with power distribution equipment. Voltages dangerous to life may be present. Failure to do so may cause death or serious injury by electrocution.

9. Install the power distribution box IAW WP 0030.
10. Qualified personnel should connect and energize external power supply at the source.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
POWER DISTRIBUTION BOX STAND
REPLACE

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanics (WP 0065, Item 4)

Personnel RequiredPower Generation Equipment Repairer 52D (1)
Non-MOS Specific (2)**References**

WP 0006, WP 0007, WP 0030

Equipment Condition

Shelter deployed or struck

REPLACE**WARNING**

Exercise extreme care when disconnecting power distribution equipment. Voltages dangerous to life may be present. Failure to do so may cause death or serious injury by electrocution.

1. Qualified personnel should disconnect the external power supply at the source.
2. Remove the power distribution box IAW WP 0030.

NOTE

The power distribution mounting pole can be disconnected more easily if tension is released from the external bracing.

3. Relax, but do not completely release, tension on the external bracing IAW WP 0007.

REPLACE - CONTINUED

4. Remove the power distribution box stand (Figure 1, Item 1) by lifting the stand upward and sliding the stand footer plate (Figure 1, Item 2) out and away from under the airbeam, releasing the mounting pin at the top of the stand from the airbeam mounting block (Figure 1, Item 3).

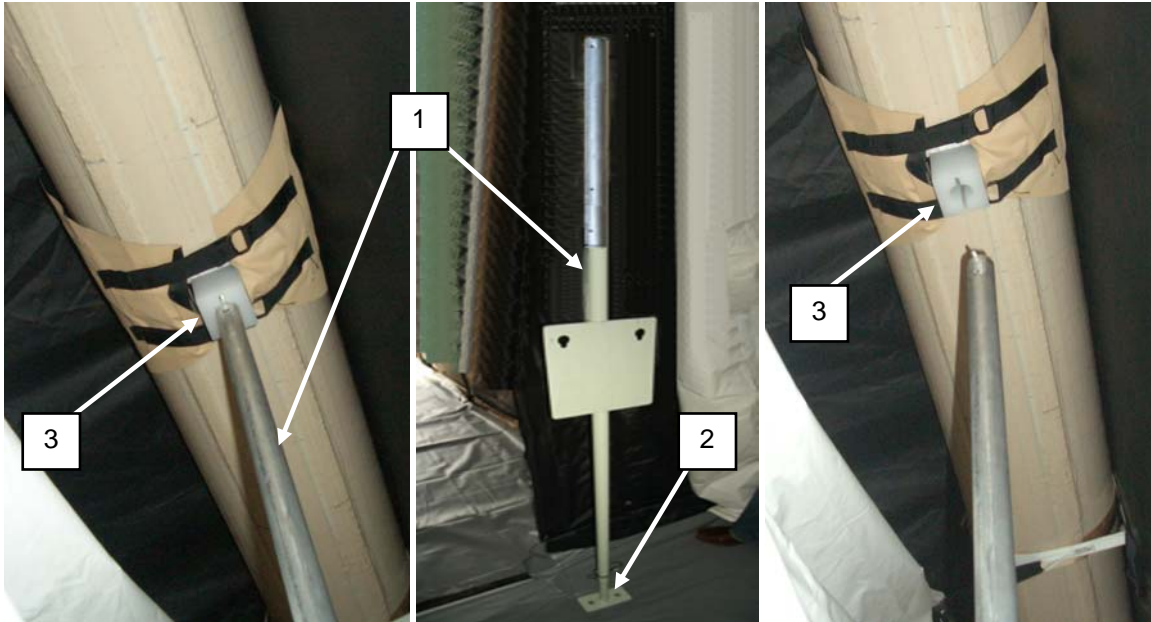


Figure 1. Remove Power Distribution Box Stand.

CAUTION

Power distribution box stand sections may have burrs or sharp edges. Control the movement of the stand sections when removing the securing pins. Failure to do so can result in injury to personnel or damage to equipment.

5. To install the new power distribution box stand (Figure 2, Item 1), remove the upper securing pin (Figure 2, Item 2) and lower securing pin (Figure 2, Item 3) from the middle section.

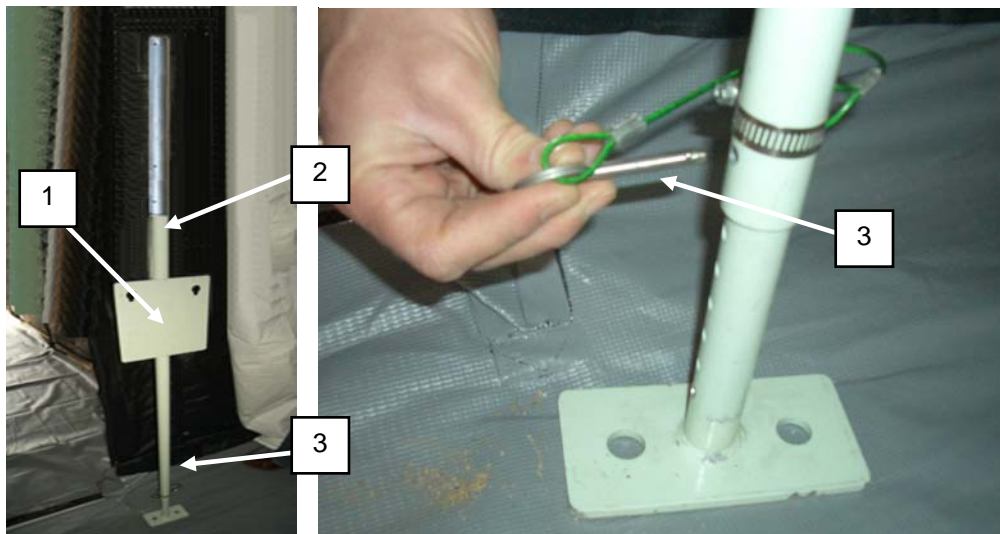


Figure 2. Power Distribution Box Stand Securing Pins.

REPLACE - CONTINUED

- Position the new power distribution box stand inside the vestibule end of the tent (Figure 3, Item 1), between the outer skin and liner, directly beneath the airbeam mounting block (Figure 3, Item 2), with the power distribution box mounting plate (Figure 3, Item 3) facing the tent interior.

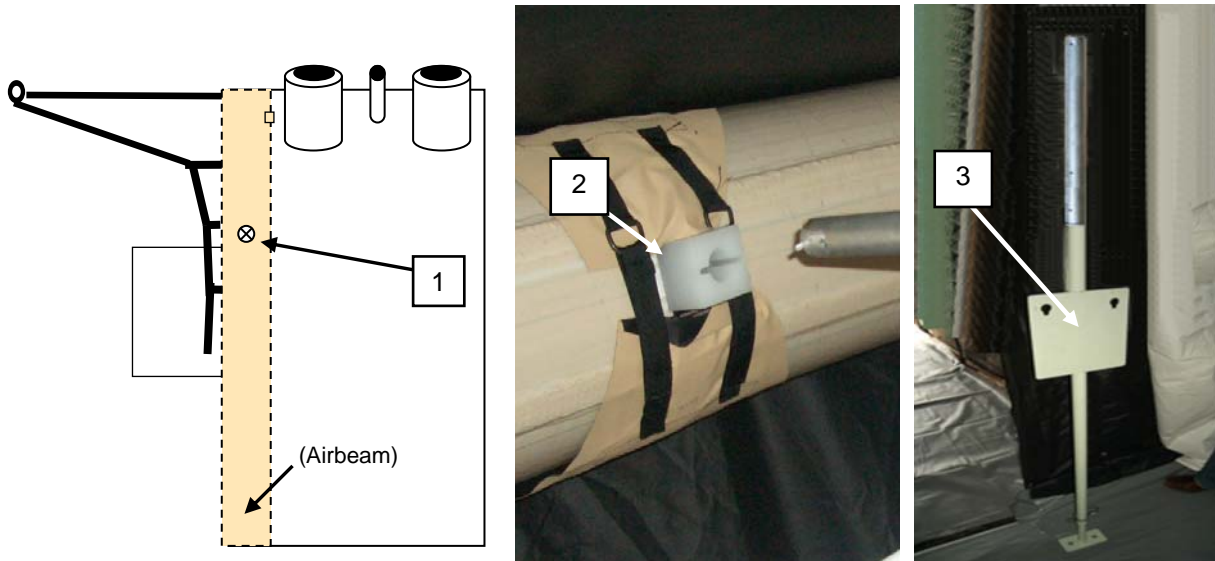


Figure 3. Position Power Distribution Box Stand.

NOTE

The power distribution box stand height is adjusted using the securing pin / alignment hole combinations in the upper and lower sections to fit snugly between the airbeam and tent floor. The power distribution box mounting plate height should match up with the liner power distribution access opening.

The second set of alignment holes in the upper section of the power distribution box stand usually provides effective mounting pole height. In unusual terrain situations, a different alignment hole selection may be required.

- Extend the upper power distribution box stand section (Figure 4, Item 1) to align the upper securing pin with the second set of alignment holes (Figure 4, Item 2). Insert the securing pin (Figure 4, Item 3) through the top holes (Figure 4, Item 4) in the middle section of the power distribution box stand.

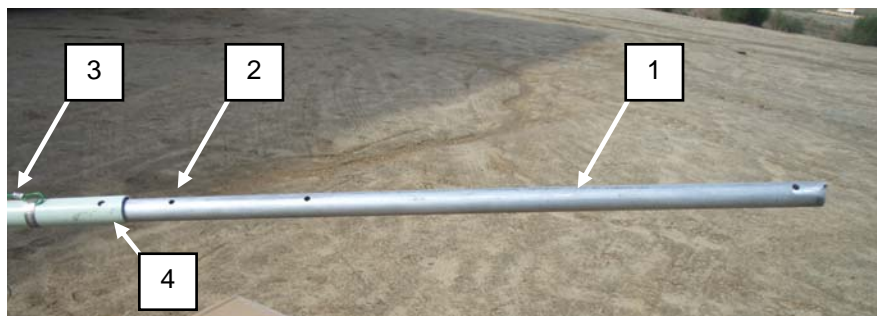


Figure 4. Upper Power Distribution Box Stand Section.

REPLACE - CONTINUED

8. At the middle section of the power distribution box stand (Figure 5, Item 1); remove the attached lower securing pin (Figure 5, Item 2). The middle section (Figure 5, Item 1) is free to slide over the footer section (Figure 5, Item 3) of the power distribution box stand.

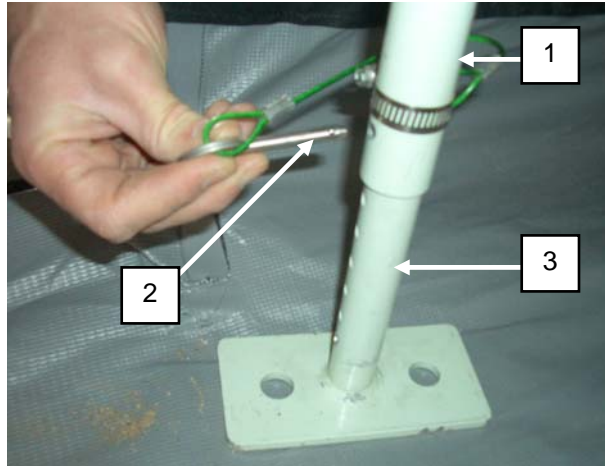


Figure 5. Power Distribution Box Stand Footer Section.

CAUTION

The top of the power distribution box stand can have burrs or sharp edges. Ensure that the top of the mounting pole remains in the airbeam mounting block during stand height adjustment. Failure to do so can damage the airbeam or the tent material.

9. At the airbeam mounting block (Figure 6, Item 2), fit the top of the power distribution box stand (Figure 6, Item 1) into the slotted hole in the airbeam mounting block (Figure 6, Item 2) attached to the airbeam.

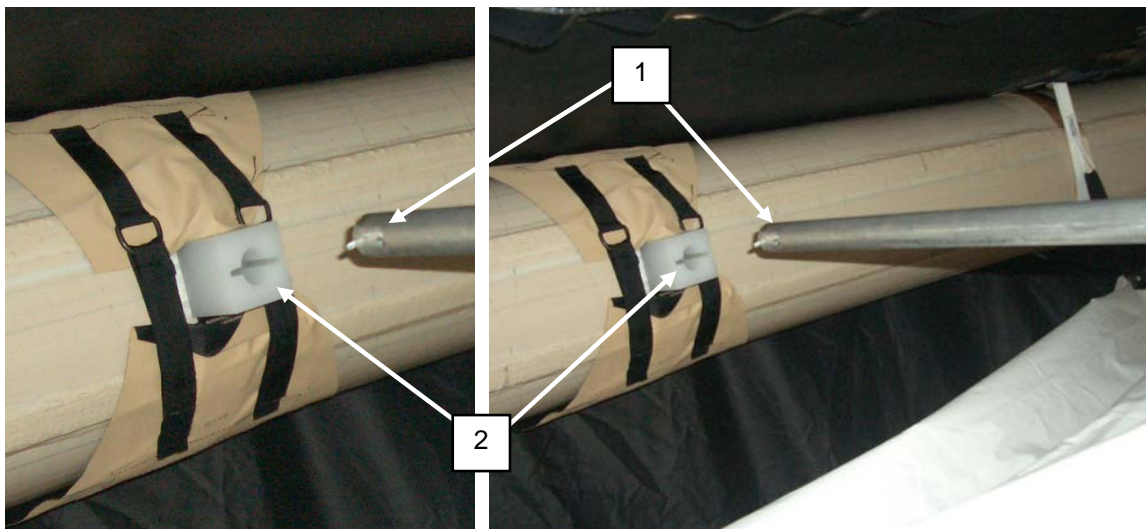


Figure 6. Airbeam Power Distribution Box Mounting Block.

REPLACE - CONTINUED**CAUTION**

When the mounting pole is installed, ensure that it fits snugly in the airbeam mounting block. Failure to do so can damage the airbeam or the tent material.

10. At the bottom of the power distribution box stand, extend the footer section (Figure 7, Item 1) until stand fits snugly between the airbeam mounting block and the tent floor. Insert the securing pin (Figure 7, Item 2) through the middle section holes (Figure 7, Item 3) and closest set of holes in the footer section (Figure 7, Item 4) that provide a snug fit of the stand between the airbeam mounting block and the tent floor.

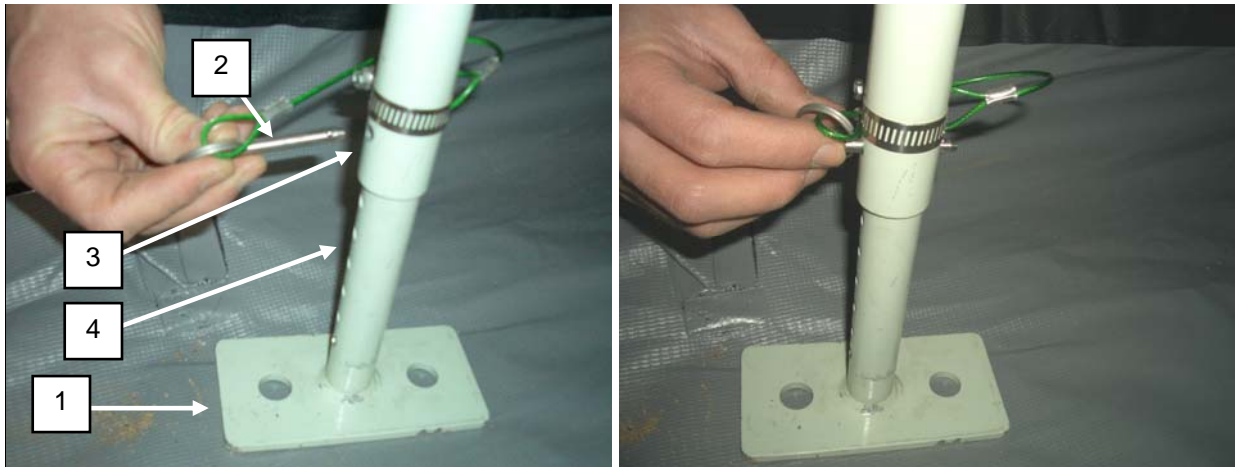


Figure 7. Power Distribution Box Stand Height Adjustment.

NOTE

The power distribution box stand is most secure with external bracing properly tightened.

11. Restore tension on the external bracing.

WARNING

Ensure that the power distribution box stand is mounted securely prior to attaching the power distribution box, power cables or applying power. Voltages dangerous to life may be present. Failure to do so can cause death or serious injury by electrocution.

12. Verify that the power distribution box mounting pole is fit securely into the airbeam mounting block, ensuring that the mounting pole cannot be easily dislodged by shaking, bumping or significant impact into the mounting pole.

REPLACE - CONTINUED

13. Attach the power distribution box to the power distribution box stand IAW WP 0030.

WARNING

Exercise extreme care when disconnecting power distribution equipment. Voltages dangerous to life may be present. Failure to do so can cause death or serious injury by electrocution.

14. Attach power distribution, lighting and external primary power cables to the power distribution box IAW WP 0006.
15. Qualified personnel should energize external power and verify power is correctly applied IAW WP 0006.

END OF TASK**END OF WORK PACKAGE**

OPERATOR MAINTENANCE
POWER DISTRIBUTION BOX
REPLACE

INITIAL SETUP:

References

WP 0009

Personnel Required

Power Generation Equipment Repairer 52D (1)
 Non-MOS Specific (2)

Equipment Condition

External electrical power disconnected

REPLACE

Remove Power Distribution Box

WARNING



Voltages dangerous to life are present in power distribution equipment. Failure to heed warning can cause death or serious injury by electrocution.

NOTE

Power distribution equipment is installed between the outer skin and liner. Open the liner hook and loop tape fasteners to access power distribution equipment.

1. At the power distribution outlet boxes, locate and turn off all equipment connected to the outlets (Figure 1, Item 1).
- 2.

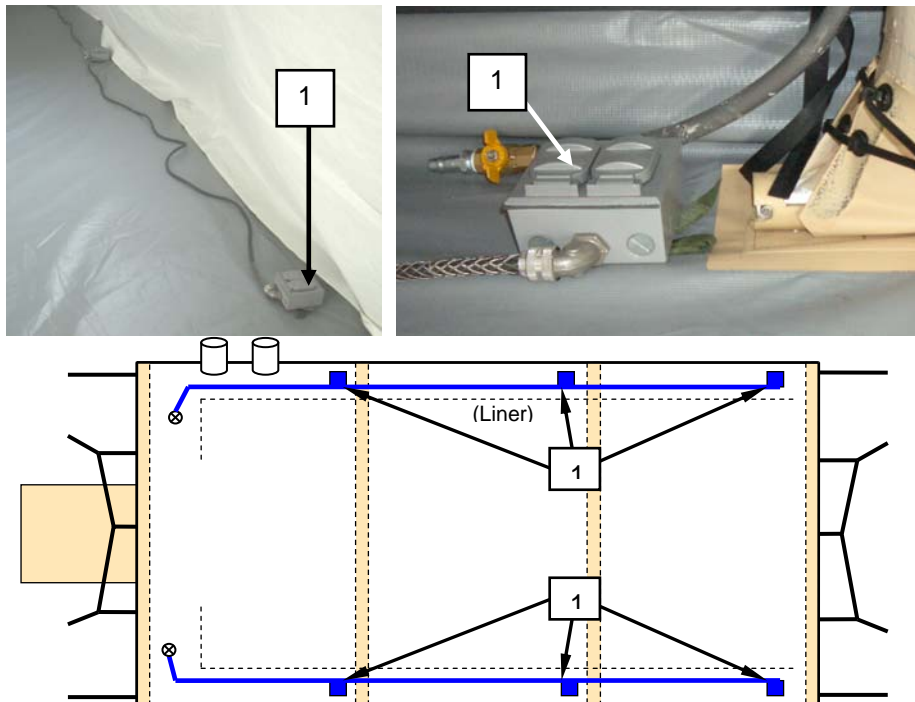


Figure 1. Convenience Outlet Locations.

REPLACE - CONTINUED

3. At the power distribution box to be replaced, place the LEFT and RIGHT LIGHTS toggle switches (Figure 2, Item 1) in the OFF (Down) position.

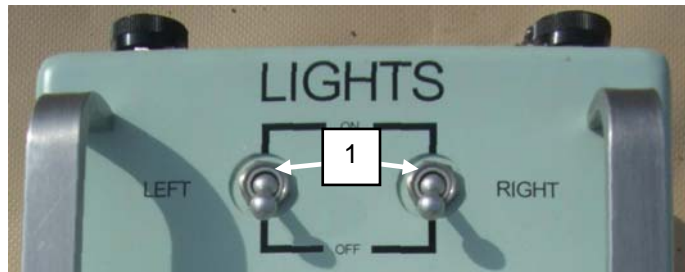


Figure 2. Left and Right Lighting Toggle Switches.

WARNING

Exercise extreme care when disconnecting power distribution equipment. Voltages dangerous to life may be present. Failure to do so can cause death or serious injury by electrocution.

4. Qualified personnel should disconnect the external power supply at the source.
5. Disconnect the primary power cable.
6. At the power distribution box to be replaced, loosen and disconnect the external power supply cable plug POWER IN P1 (Figure 3, Item 1) from the power distribution box receptacle jack POWER IN J1.
7. Replace the threaded jack cover (Figure 3, Item 2) for the J1 POWER IN receptacle jack.

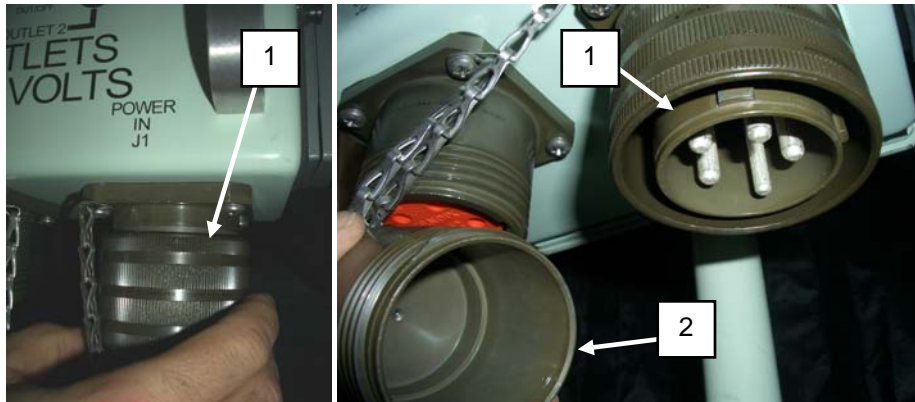


Figure 3. Disconnect Primary Power Cable from J1 POWER IN.

REPLACE - CONTINUED

8. At the power distribution box to be replaced, disconnect the power distribution extension cable plugs (Figure 4, Item 1) from the power distribution box. Move the cables aside for later connection to the new power distribution box.

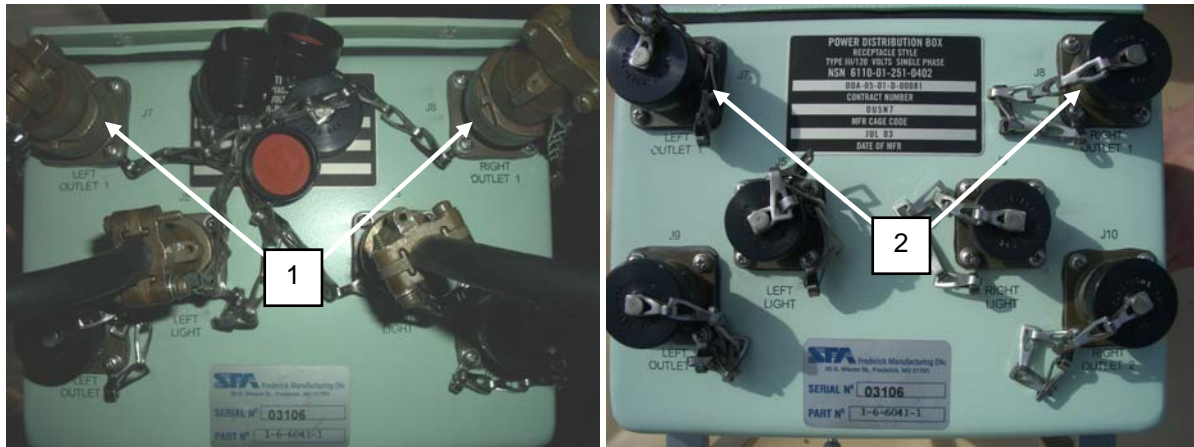


Figure 4. Remove Power Distribution Extension Cable Plugs.

9. At the power distribution box to be replaced, disconnect the lighting extension cable plugs (Figure 5, Item 1).
10. Replace the threaded jack covers (Figure 5, Item 2) on the power distribution box receptacle jacks.



Figure 5. Disconnect Lighting Cable Plugs.

REPLACE - CONTINUED

11. Remove the power distribution box (Figure 6, Item 1) from the mounting pole (Figure 6, Item 2) by lifting the power distribution box upwards until the pins (Figure 6, Item 3) on the back of the power distribution box release from the slotted holes (Figure 6, Item 4) on the mounting plate.

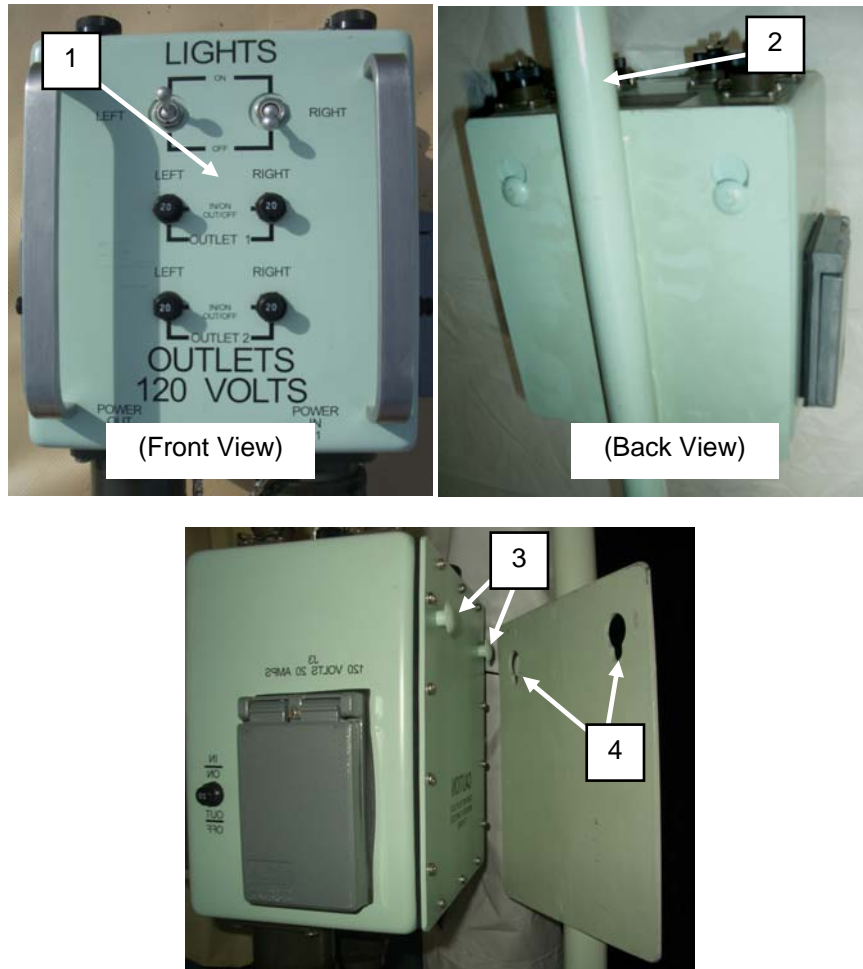


Figure 6. Remove Power Distribution Box.

END OF TASK

REPLACE - CONTINUED

Install Power Distribution Box

1. Attach the new power distribution box to the mounting pole by fitting the pins (Figure 7, Item 1) on the back of the power distribution box into the slotted holes (Figure 7, Item 2) on the mounting pole plate. Press down firmly on the power distribution box to ensure that the pins mount securely.

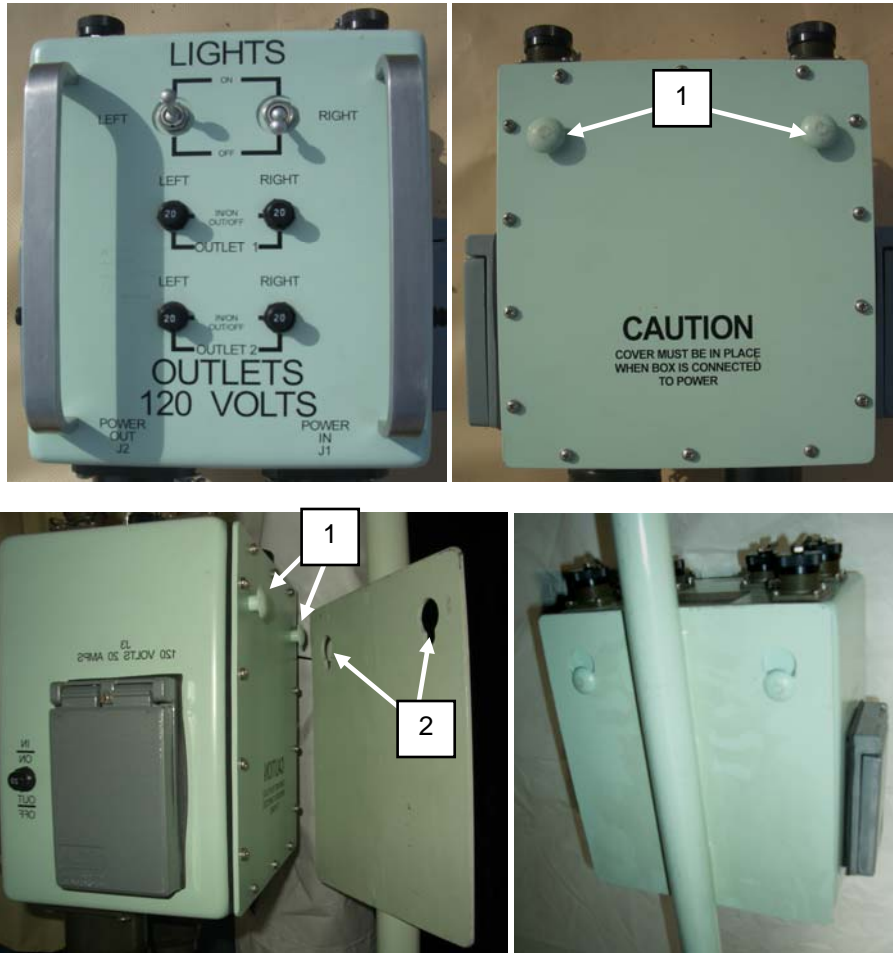


Figure 7. Power Distribution Box Mounting.

2. On the front of the Power Distribution Box, ensure that the left and right LIGHTS toggle switches (Figure 8, Item 1) are in the OFF (down) position.

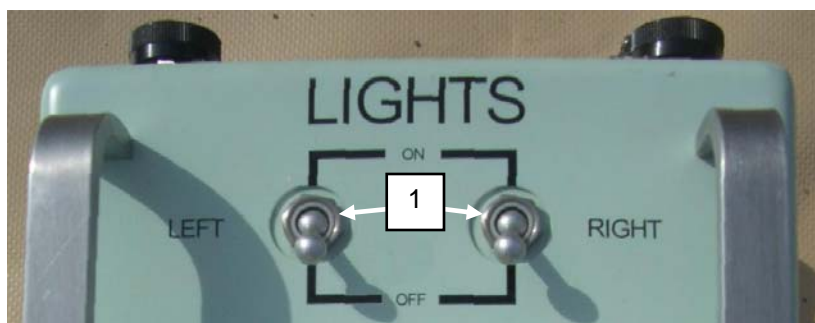


Figure 8. Left and Right Lighting Toggle Switches.

REPLACE - CONTINUED

3. On the front of the power distribution box, ensure that all four left and right OUTLETS of 20A pushbutton circuit breakers (Figure 9, Item 1) are set to the IN (DOWN) position.

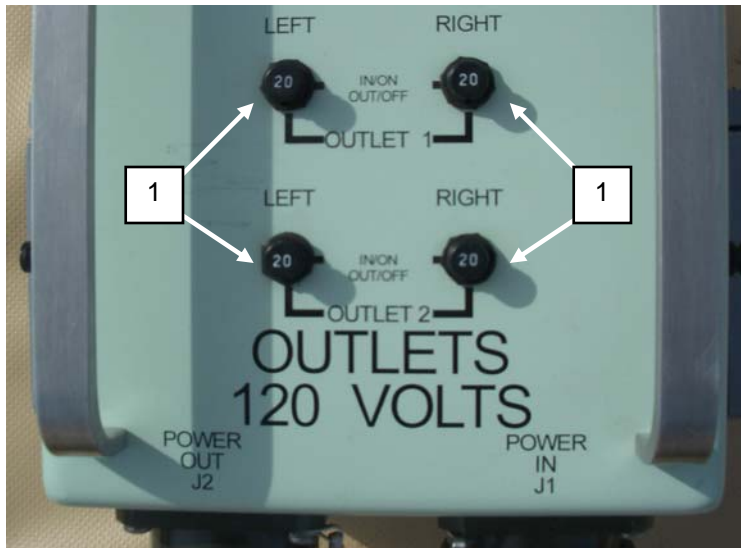


Figure 9. Outlet Circuit Breakers.

4. On the right side of the power distribution box, ensure that the J1 primary POWER IN 20A pushbutton circuit breaker (Figure 10, Item 1) is set to the IN (Down) position.

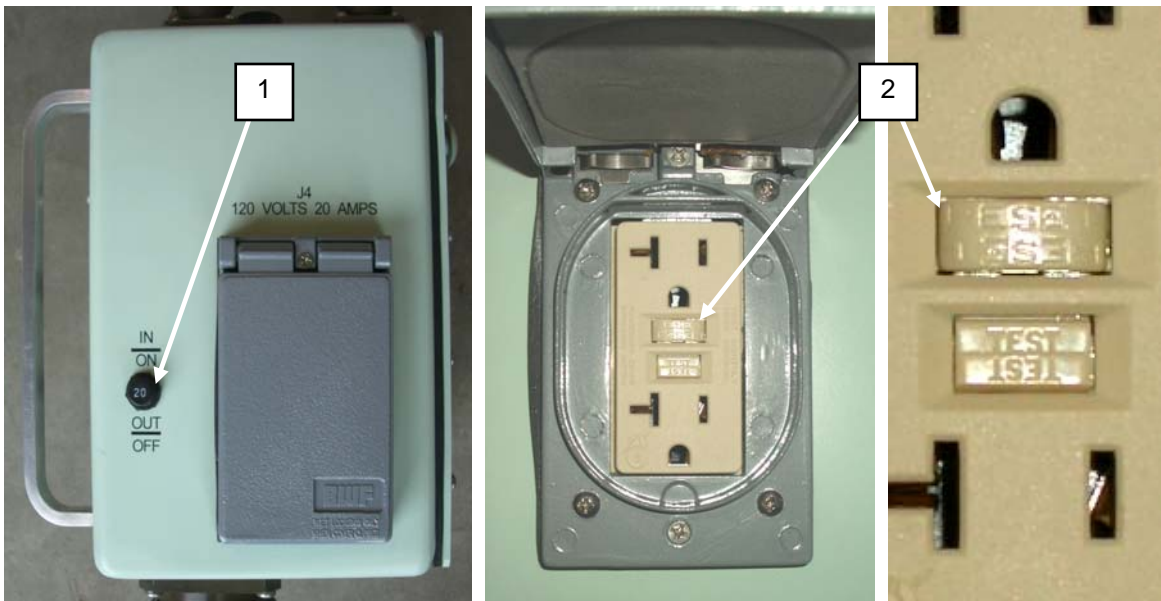


Figure 10. Primary Power Circuit Breaker.

5. On the right side of the power distribution box, ensure that J4 convenience outlet 120 VOLTS 20 AMPS ground fault interrupter circuit breaker RESET button (Figure 10, Item 2) is in the IN (Down) position.

REPLACE - CONTINUED

6. On the left side of the power distribution box, ensure that the J2 POWER OUT 20A pushbutton circuit breaker (Figure 11, Item 1) is set to the IN (Down) position.
7. On the left side of the power distribution box, ensure that the J3 convenience outlet 120 VOLTS 20 A ground fault interrupter circuit breaker (Figure 11, Item 2) RESET button is in the Down (In) position.

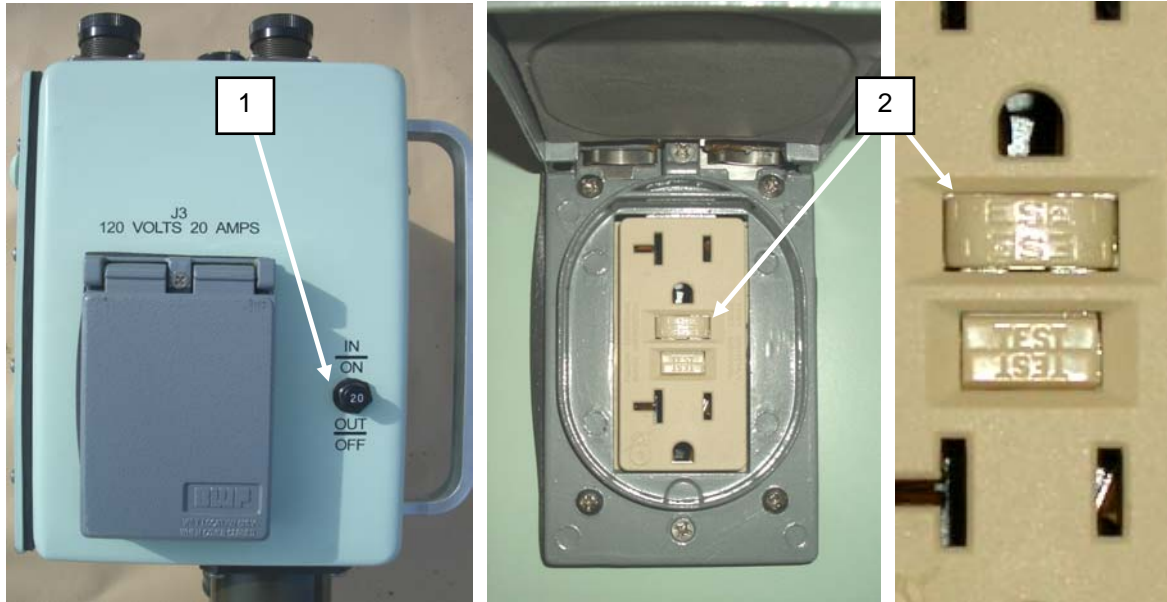


Figure 11. Power Out Circuit Breaker.

8. On the top of the power distribution box, unscrew and remove the threaded cover (Figure 12, Item 1) from J8 RIGHT OUTLET 1 receptacle jack.

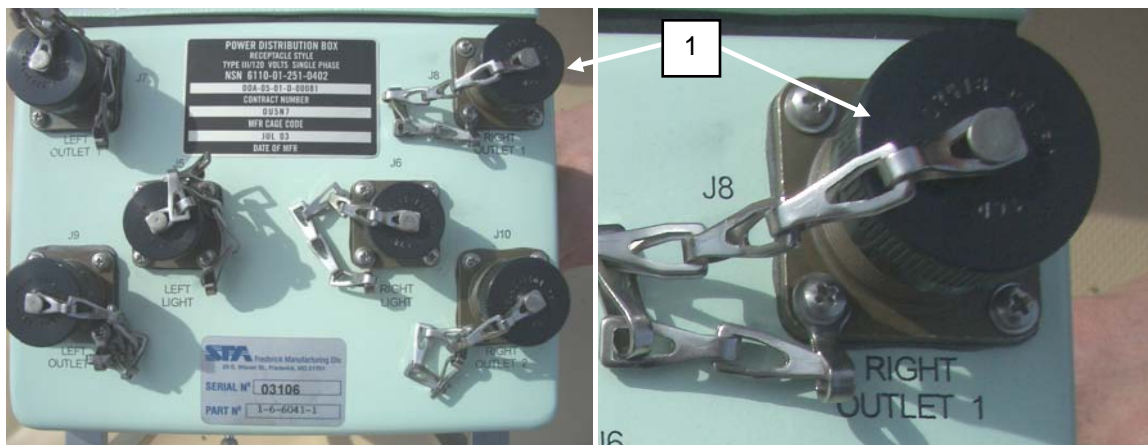


Figure 12. Remove J8 RIGHT OUTLET 1 Jack Cover.

REPLACE - CONTINUED

- Align the slot (Figure 13, Item 1) on the power distribution extension cable plug P8 RIGHT OUTLET 1 (Figure 13, Item 2) to the key (Figure 13, Item 3) on J8 RIGHT OUTLET 1 (Figure 13, Item 4) receptacle jack.

WARNING

Fully seat the power distribution extension cable plug into the power distribution box jack for reliable electrical connection of the plug pins into the jack. Failure to do so could cause serious injury or death from electrocution or damage to equipment.

- With the key aligned in the slot, press plug down firmly on the power distribution extension plug connector shell (Figure 13, Item 2) to fully seat the connector plug onto the J8 receptacle jack (Figure 13, Item 4).
- Thread and tighten the P8 (Figure 13, Item 2) connector shell to secure the power connection.

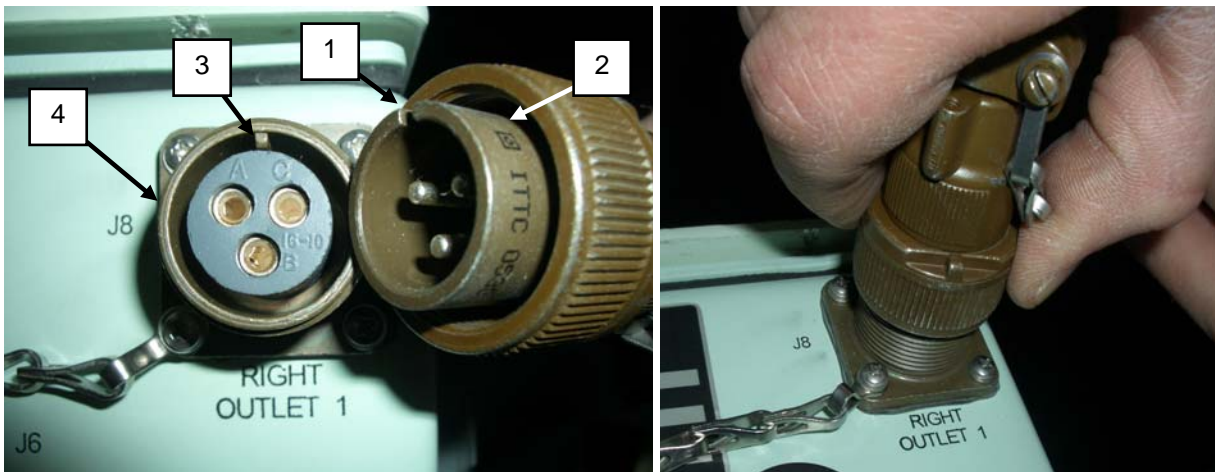


Figure 13. Connect P8 RIGHT OUTLET 1 to J8 RIGHT OUTLET 1.

REPLACE - CONTINUED

- On the top of the power distribution box, unscrew and remove the threaded cover (Figure 14, Item 1) from J7 LEFT OUTLET 1 receptacle jack.

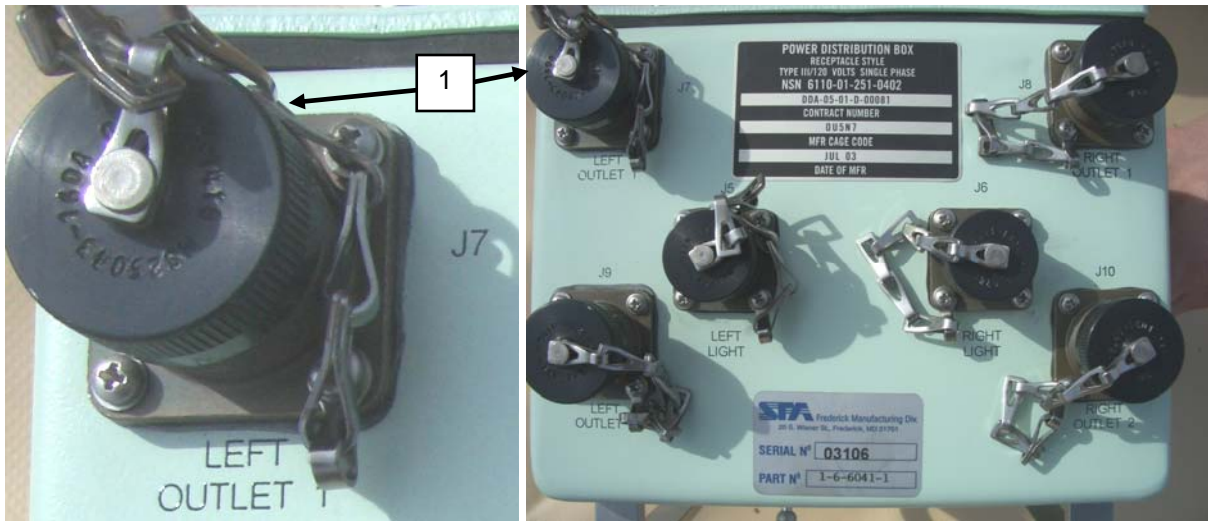


Figure 14. Remove J7 LEFT OUTLET 1 Receptacle Jack Cover.

- Align the slot (Figure 15, Item 1) on the power distribution extension cable plug P7 LEFT OUTLET 1 (Figure 15, Item 2) to the key (Figure 15, Item 3) on J7 LEFT OUTLET 1 receptacle jack (Figure 15, Item 4).

WARNING



Fully seat and tighten the plug into the jack for reliable electrical connection of the plug pins. Failure to do so can cause serious injury or death from electrocution or damage to equipment.

- Press firmly on the power distribution extension plug connector shell (Figure 15, Item 2) to fully seat the power plug onto the J7 jack (Figure 15, Item 4).
- Thread and tighten the P7 connector shell (Figure 15, Item 2) to secure the power connection.

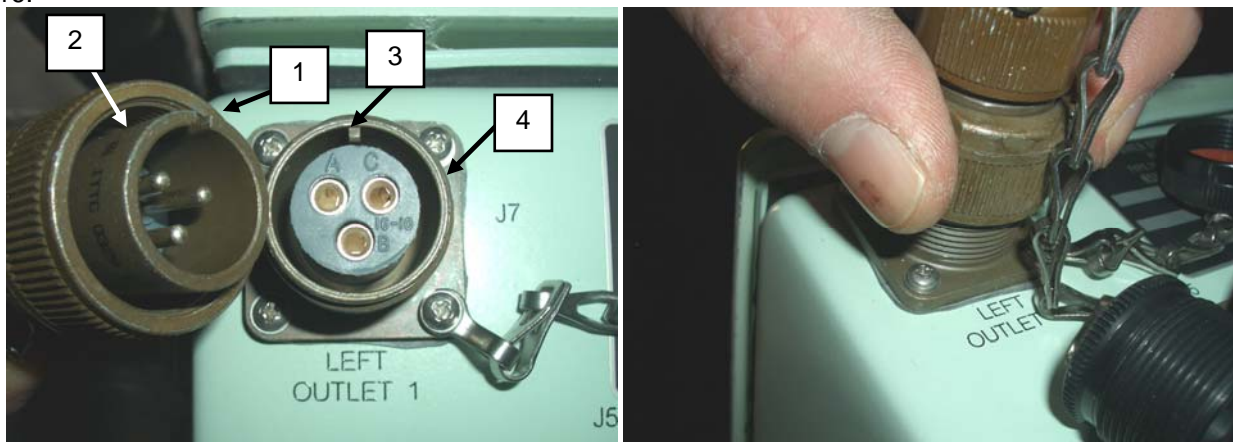


Figure 15. Connect P7 LEFT OUTLET 1 Power Distribution Cable to J7 LEFT OUTLET 1.

REPLACE - CONTINUED

- On the top of the power distribution box, unscrew and remove the threaded cover (Figure 16, Item 1) from J5 LEFT LIGHT receptacle jack.

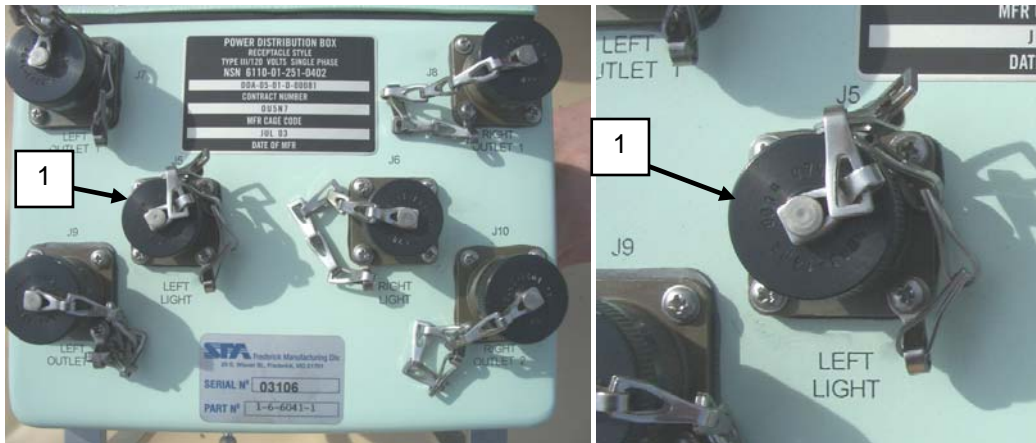


Figure 16. Remove J5 LEFT LIGHT Jack Cover.

- Align the slot (Figure 17, Item 1) on the lighting power extension cable plug P5 LEFT LIGHT (Figure 16, Item 2) to the key (Figure 17, Item 3) on J5 LEFT LIGHT (Figure 17, Item 4) receptacle jack.

WARNING



Fully seat and tighten the plug into the jack for reliable electrical connection of the plug pins. Failure to do so could cause serious injury or death from electrocution or damage to equipment.

- With the key aligned in the slot, press plug down firmly on the lighting power extension plug connector shell (Figure 17, Item 2) to fully seat the connector plug onto the J5 receptacle jack (Figure 17, Item 4).

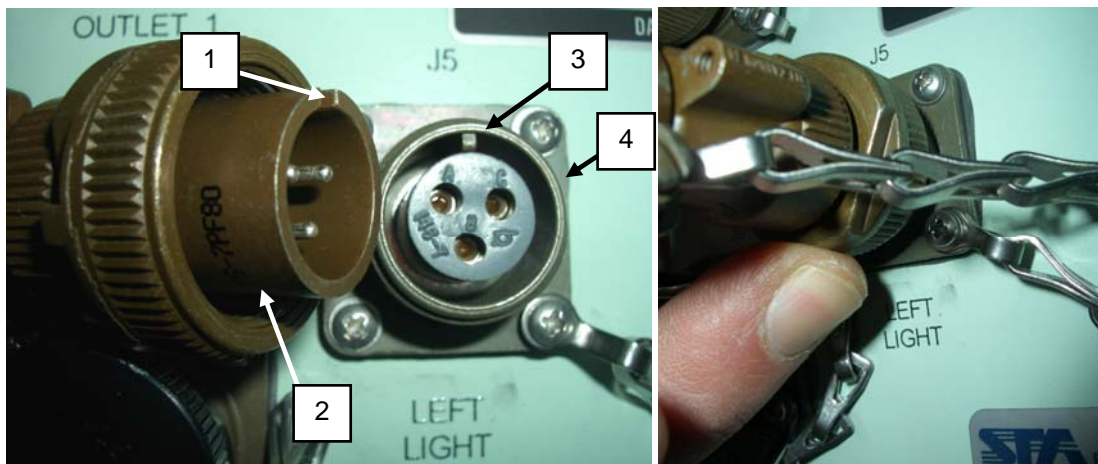


Figure 17. Connect P5 LEFT LIGHT to J5 LEFT LIGHT.

REPLACE - CONTINUED

20. Thread and tighten the P5 (Figure 17, Item 2) connector shell to secure the left lighting power connection.
21. On the top of the power distribution box, unscrew and remove the threaded cover (Figure 18, Item 1) from J6 RIGHT LIGHT receptacle jack.

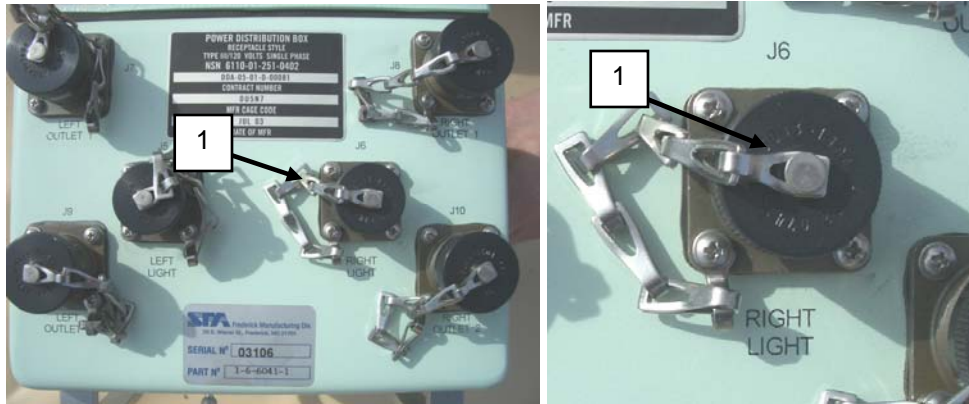


Figure 18. Remove J6 RIGHT LIGHT Jack Cover.

22. Align the slot (Figure 19, Item 1) on the lighting power extension cable plug P6 RIGHT LIGHT (Figure 19, Item 2) to the key (Figure 19, Item 3) on J6 RIGHT LIGHT (Figure 19, Item 4) receptacle jack.

WARNING



Fully seat and tighten the plug into the jack for reliable electrical connection of the plug pins. Failure to do so could cause serious injury or death from electrocution or damage to equipment.

23. With the key aligned in the slot, press plug down firmly on the lighting power extension plug (Figure 19, Item 2) to fully seat the connector plug onto the J6 receptacle jack (Figure 19, Item 4).
24. Thread and tighten the P6 (Figure 19, Item 2) connector shell to secure the lighting power connection.

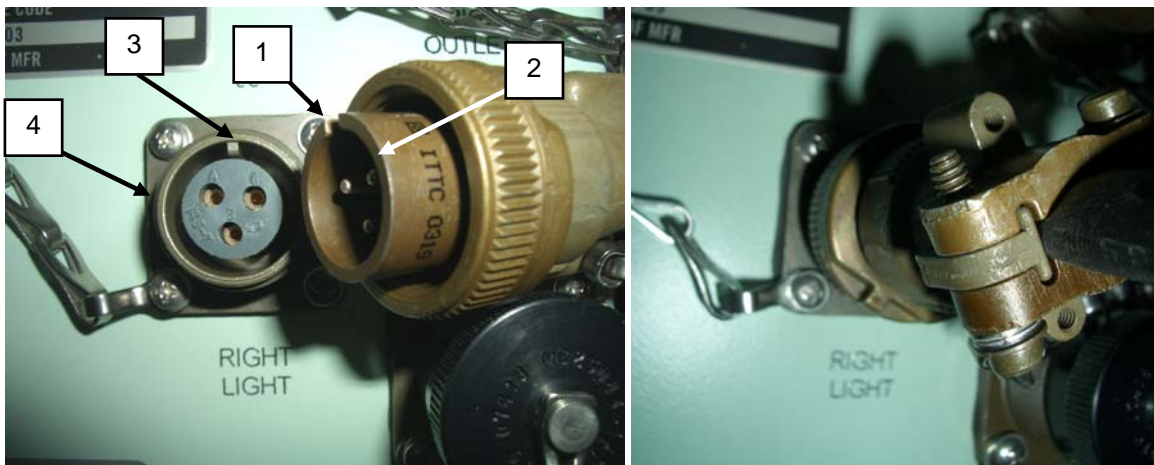


Figure 19. Connect P6 RIGHT LIGHT to J6 RIGHT LIGHT.

REPLACE - CONTINUED

25. On the bottom right of the power distribution box, unscrew and remove the threaded plug cover (Figure 20, Item 1) for the J1 POWER IN receptacle jack.

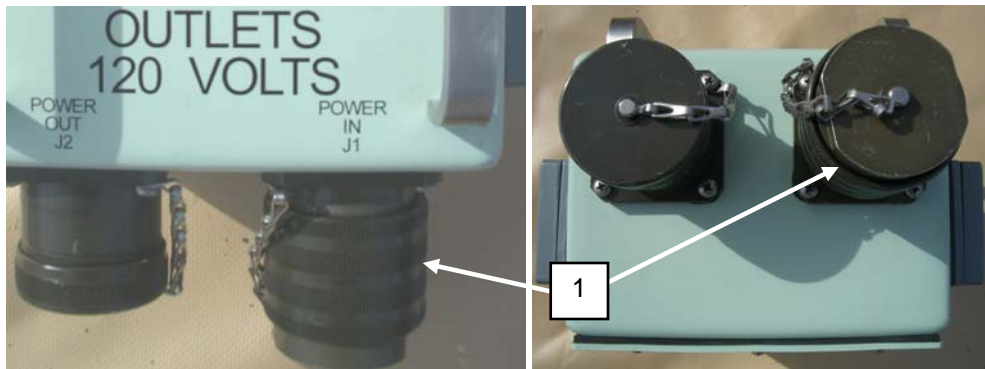


Figure 20. Remove POWER IN J1 Jack Cover.

WARNING

Fully seat and tighten the plug into the jack for reliable electrical connection of the plug pins. Failure to do so could cause serious injury or death from electrocution or damage to equipment.

26. Align the slot on the primary power cable plug with the key (Figure 21, Item 1) on the J1 POWER IN receptacle jack (Figure 21, Item 2), and press firmly to seat the connector plug pins in the jack.

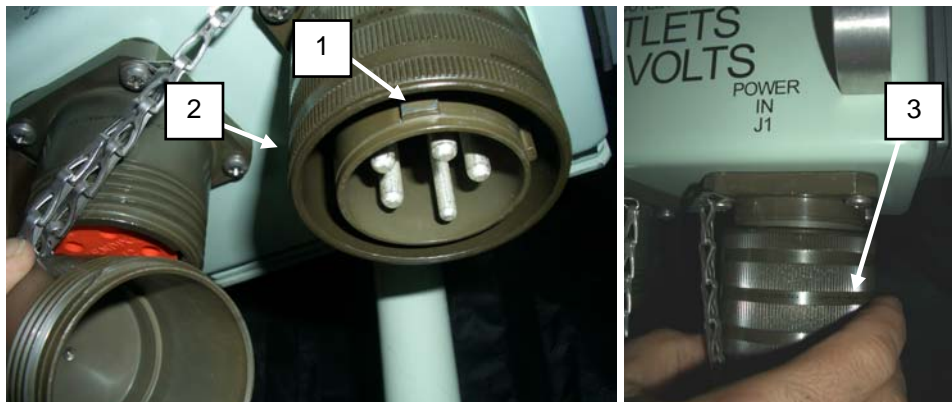


Figure 21. Connect Primary Power Cable to J1 POWER IN.

27. Thread and tighten the connector shell (Figure 21, Item 3) to complete the seating of the plug pins into the jack and secure the power connection.

REPLACE - CONTINUED

28. Qualified personnel should energize external power source.
29. On the front of the Power Distribution Box, turn both left and right LIGHTS toggle switches (Figure 22, Item 1) to the ON (Up) position.

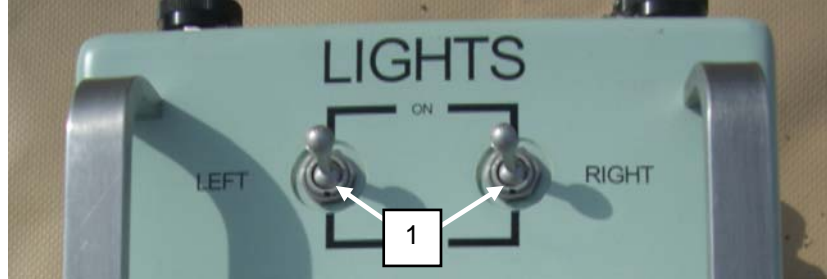


Figure 22. Left and Right Lighting Toggle Switches.

30. Verify visually that all TEMPER, Air-Supported left and right lighting units illuminate. If this does not occur, refer to WP 0009 Troubleshooting Index.

NOTE

Though not required, additional quick checks of the power distribution system can be quickly and easily performed on both left and right sides of the tent by checking power availability at the convenience outlet boxes with any electrically powered device.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
VESTIBULE ASSEMBLY
SERVICE, REPAIR, REPLACE

INITIAL SETUP:**Tools and Special Tools**

Knife, Utility (WP 0065, Item 2)
Tape, Measuring (WP 0065, Item 3)

Personnel Required

Non-MOS Specific (2)

Materials/Parts

Adhesive (WP 0064, Item 1)
Brush, Acid Swabbing (WP 0064, Item 2)
Brush, Scrub (WP 0064, Item 3)
Paper Cup (WP 0064, Item 6)
Detergent, General Purpose (WP 0064, Item 7)
Chemical Gloves (WP 0064, Item 8)
Goggles (WP 0064, Item 9)
Lead, Pencil, Graphite (WP 0064, Item 10)
Paper Plate (WP 0064, Item 11)
Rag, Wiping (WP 0064, Item 12)
Repair Kit (WP 0064 13, 14)

Equipment Condition

Shelter either deployed or struck

References

WP 0005

SERVICE

Clean the component as needed to remove dirt or other debris. Use warm, soapy water and a rag. Dry the component completely.

REPAIR**Repair of the Vestibule Fabric with a Temporary Patch****NOTE**

The repair patch kit provided with the TEMPER, Air-Supported contains temporary self-stick adhesive patch materials for exterior, floor, and liner temporary patches. The temporary patch procedures are identical for all of the vestibule fabric materials.

1. With a brush and warm, soapy water, remove any surface dirt or debris from the damaged area. Allow the area to dry thoroughly.
2. Trim any frays or torn fabric to prepare a neat, clean edged area for adhesive patching.

REPAIR - CONTINUED

NOTE

Rounding the corners on an adhesive patch generally yield better long term results.

3. Measure the height and width of the damaged area, and cut a piece of temporary self-stick adhesive patching material to extend and overlap beyond the damaged area 1-inch in all directions (Figure 1). Round the corners of the temporary patch.



Figure 1. Measure and Cut Temporary Patch.

4. With an alcohol prep pad, scrub the area where the adhesive patch will be applied (Figure 2). Allow area to dry before applying patch.



Figure 2. Prepare Adhesive Patch Area.

REPAIR - CONTINUED

5. Peel the backing paper (Figure 3, Item 1) from the adhesive patch (Figure 3, Item 2), and apply the adhesive patch to the damaged area.

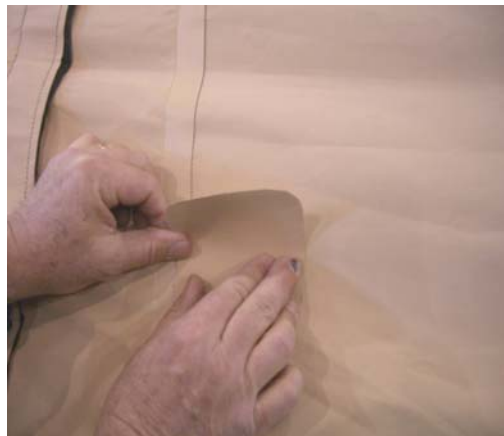
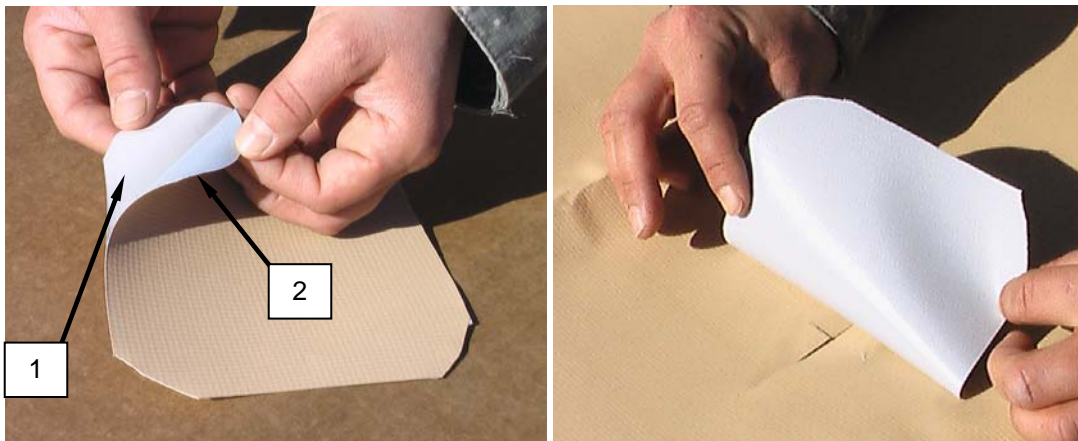


Figure 3. Apply Temporary Patch.

6. Working from the center of the temporary patch outwards, press firmly, working any folds or air pockets out of the patch area (Figure 4).



Figure 4. Completed Temporary Patch.

7. Allow 30 minutes for the temporary patch adhesive material to cure and dry completely.

END OF TASK

REPAIR - CONTINUED**Repair of the Vestibule with a Permanent Patch****NOTE**

The repair patch kit provided with the TEMPER, Air-Supported contains patch materials for exterior, floor and liner patches. The patch procedures are identical for all of the vestibule materials.

1. With a brush and warm, soapy water, remove any surface dirt or debris from the damaged area. Allow the area to dry thoroughly.
2. Trim any frays or torn fabric to prepare a neat, clean edged area for patching.

NOTE

Rounded corners on a patch generally yield better long term results.

3. Measure the height and width of the damaged area, and cut a piece of patching material to extend and overlap beyond the damaged area 1-inch in all directions (Figure 5). Round the corners of the patching material.



Figure 5. Measure and Cut Patch Material.

REPAIR - CONTINUED

- Using an alcohol prep pad, clean the area where the adhesive patch will be applied (Figure 6).



Figure 6. Preparing Damaged Area with Alcohol Prep Pad.

- Using an alcohol prep pad, clean the side of the patch that will come in contact with the damaged area (Figure 7).

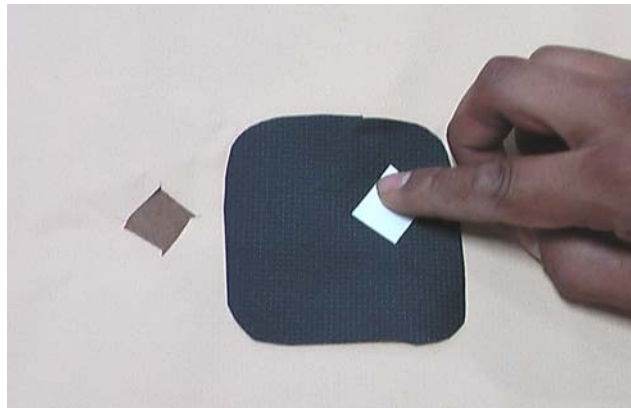


Figure 7. Preparing Patch with Alcohol Prep Pad.

- Place the prepared patch in position over the damaged area and trace around the patch perimeter with a pencil (Figure 8).



Figure 8. Trace Patch Perimeter with Pencil.

REPAIR - CONTINUED

WARNING

HH-66 Vinyl Cement is highly combustible, DO NOT use near an open flame or spark. Use only in a well ventilated area as the chemical vapors are hazardous. Be sure to protect yourself with gloves and goggles and avoid skin and eye contact. If your skin should come in contact with the vinyl cement, flush the area with water and seek medical attention. Failure to adhere to these warnings may result in injury or death.

7. Remove the patch and apply adhesive to the damaged area, going just beyond the patch perimeter previously marked (Figure 9).



Figure 9. Apply Adhesive to Damaged Area.

8. Place the patch on a suitable work surface and apply adhesive to the side of the patch that will come in contact with the damaged vestibule (Figure 10).



Figure 10. Apply Adhesive to Patch.

9. Wait approximately 2 - 5 minutes until the adhesive that was applied to the damaged area and the patch is tacky and does not cling to the finger if touched.

REPAIR - CONTINUED**CAUTION**

The adhesive used to apply the permanent patch is a contact adhesive. Be sure to align the patch over the damaged area before coming in contact with the damaged area. Once the patch comes in contact with the vestibule, it cannot easily be removed and can result in additional damage to the vestibule if repositioning is necessary.

10. Apply the patch to the vestibule by aligning one edge with the pencil line made earlier on the damaged area (Figure 11). Carefully roll the patch over the damaged area to prevent wrinkles or bubbles under the patch. Apply additional adhesive if necessary to areas under the patch that are not bonded to the vestibule. Allow the adhesive to dry to a light tack before pressing into position.



Figure 11. Apply Patch to Damaged Area.

11. Once the patch has been completely applied to the damaged area, press firmly with fingers, working from the center of the permanent patch outwards ensuring that any folds or air pockets have been worked out of the patch area (Figure 12).



Figure 12. Remove Air Pockets from Patch.

REPAIR - CONTINUED

- Repeat Steps 1 through 11 and apply a permanent patch over the damaged area on the interior of the vestibule (Figure 13).



Figure 13. Applying Permanent Patch to Damaged End Section.

- Allow 30 minutes for the permanent patch adhesive material to cure and dry completely.

END OF TASK

REPLACE**Removing the Vestibule Assembly****NOTE**

A step aid may be required to reach some of the vestibule assembly components and end shelter end section becket laces at the top of the end section.

1. Untie, remove and fold up the vestibule floor panel (Figure 14, Item 1) for storage.

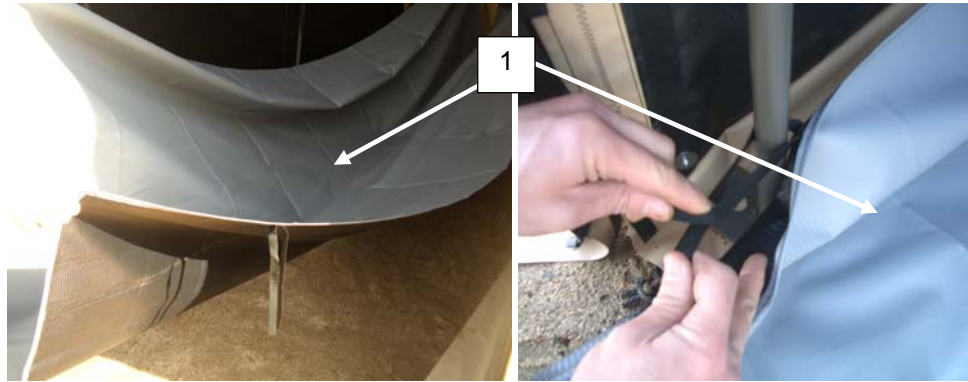


Figure 14. Remove Vestibule Floor Panel.

2. At the vestibule inner door, untie and roll down the tent door panel (Figure 15, Item 1).

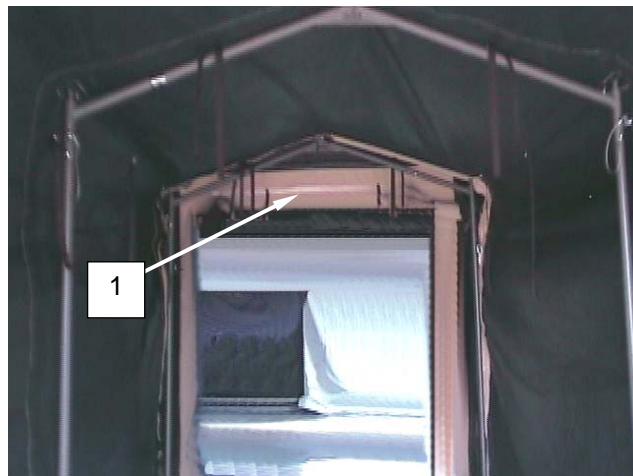


Figure 15. Roll Down Tent Door Panel.

REPLACE - CONTINUED

NOTE

Eight ties secure each vestibule frame to the vestibule material.

3. Untie vestibule material ties (Figure 16, Item 1) from vestibule frame legs.

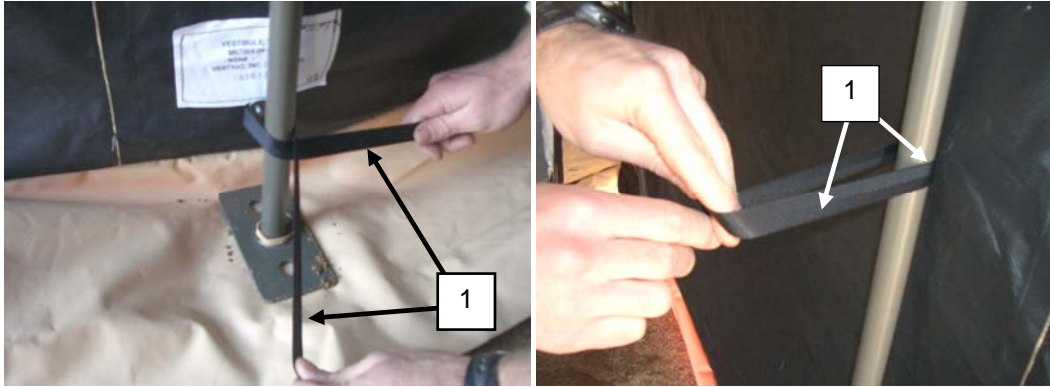


Figure 16. Untie Vestibule Material from Vestibule Frames.

4. At the vestibule outer door panel, untie and roll down the door panel (Figure 17, Item 1) closed.

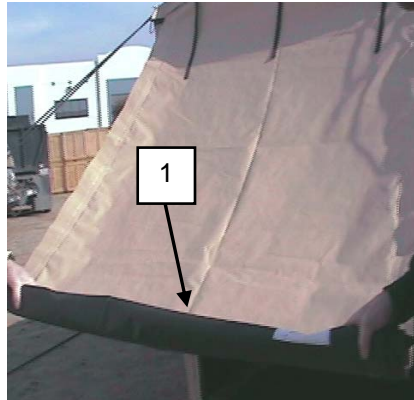


Figure 17. Roll Down and Secure Vestibule Door.

REPLACE – CONTINUED

5. Untie and unlace the vestibule end panel becket lacing fasteners.
6. Remove the vestibule guy lines (Figure 18, Item 1).

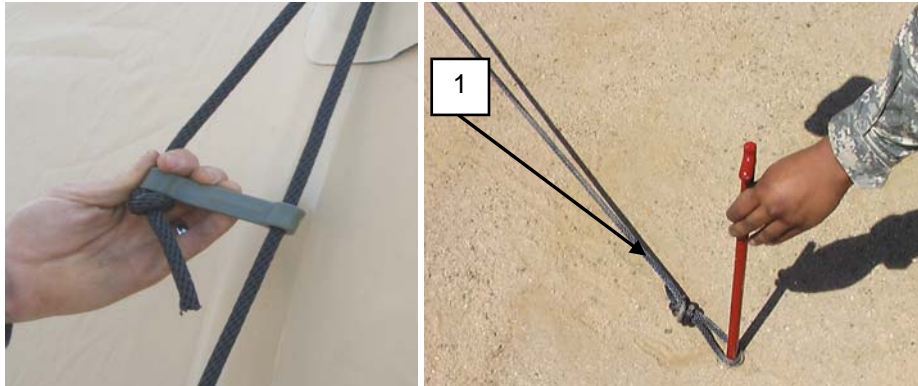


Figure 18. Plastic Tent Slip.

7. Untie and unlace the vestibule end panel becket lacing fasteners. Stow the vestibule and end panel.
8. Remove the hitch clip pins from the vestibule frame header spindles. Lift the vestibule grommets (Figure 19, Item 1) off the spindles (Figure 19, Item 2).

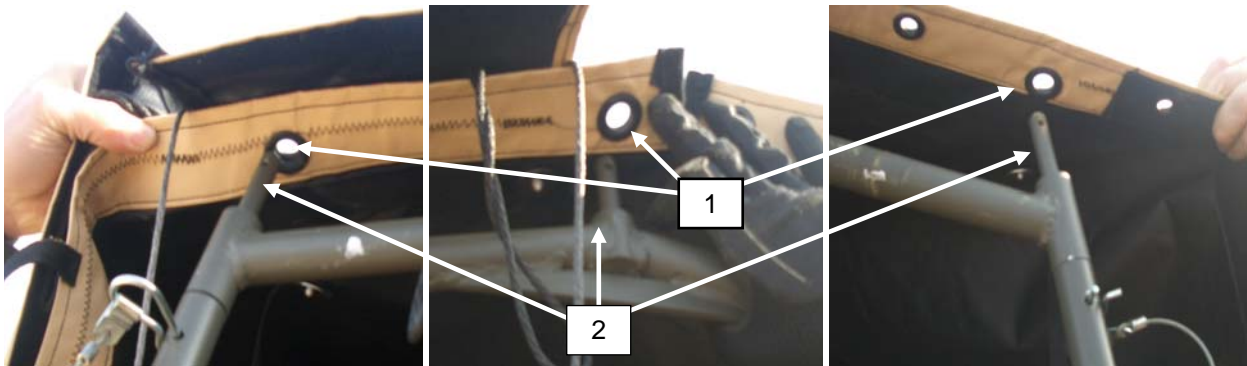


Figure 19. Lift Vestibule Material from Frame Spindles.

REPLACE - CONTINUED

9. At the end vestibule frame, lift and remove the vestibule end panel grommets (Figure 20, Item 2) off the frame spindles (Figure 20, Item 1).

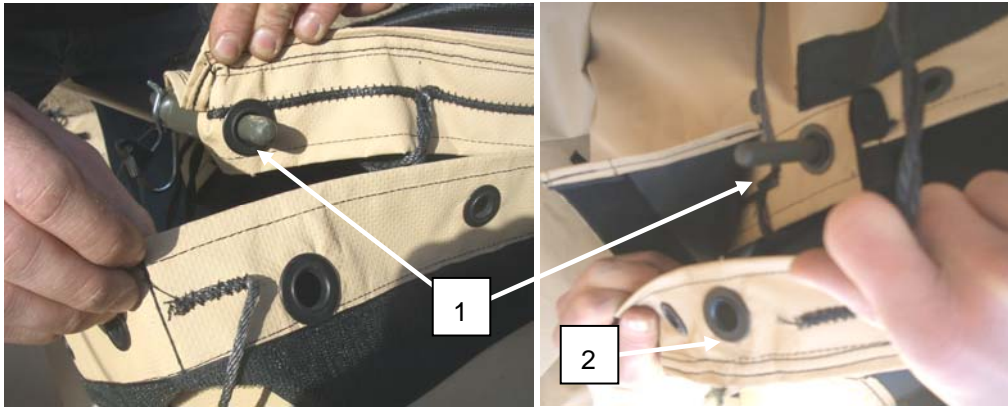


Figure 20. Remove Vestibule End Panel.

10. On the outside of the vestibule material, remove the hitch clip pins (Figure 21, Item 1) securing the vestibule material grommets onto the vestibule frame header section spindles (Figure 21, Item 2).

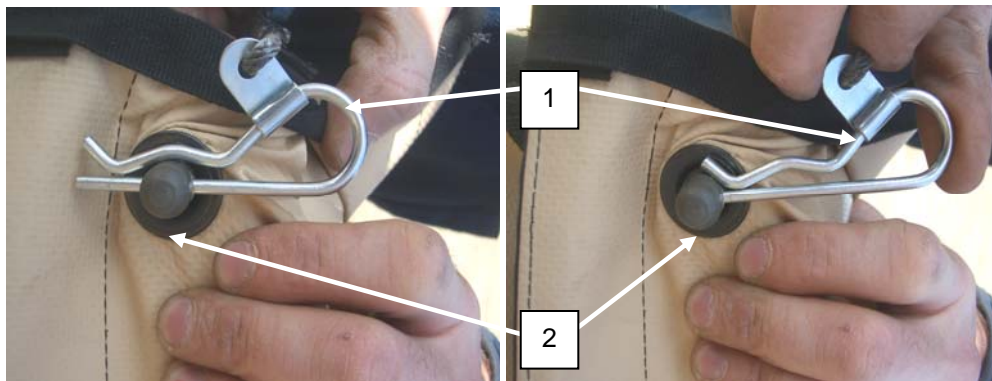


Figure 21. Remove Hitch Clip Pins from Vestibule Frame Spindles.

11. Remove the vestibule frames (Figure 22, Item 1), and disconnect the frame sections for storage.

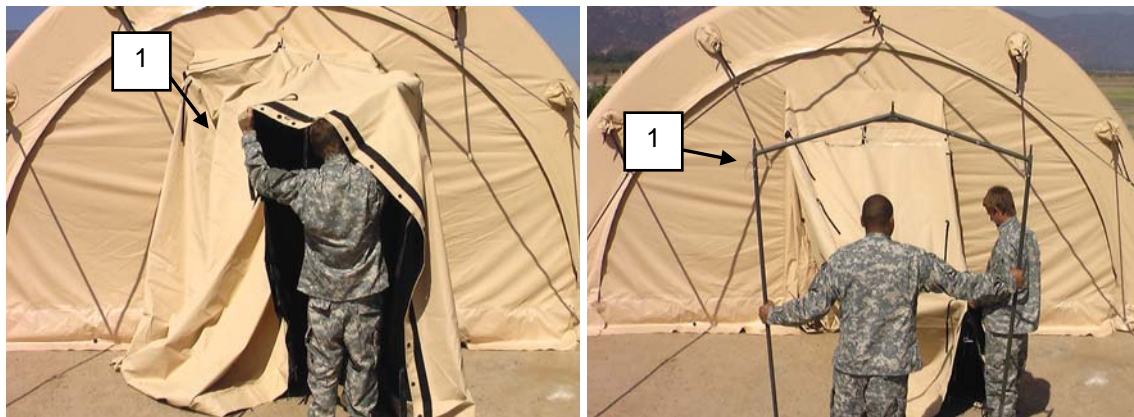


Figure 22. Remove Vestibule Frame Sections.

REPLACE - CONTINUED

12. From the outside of the shelter, at the bottom of the vestibule, open the protective hook and pile tape (Figure 23, Item 1), and untie the half-hitch knot at the bottom becket lace loop (Figure 23, Item 2).

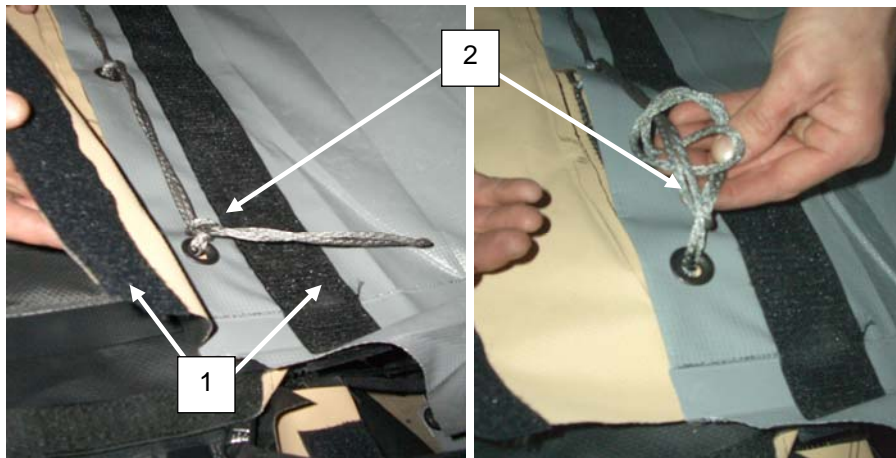


Figure 23. Untie Becket Loop Half-Hitch Knot.

13. Moving from bottom upwards toward the top center of the vestibule section, open the protective hook and pile tape (Figure 24, Item 1), and untie the becket lacing (Figure 24, Item 2) from the vestibule.

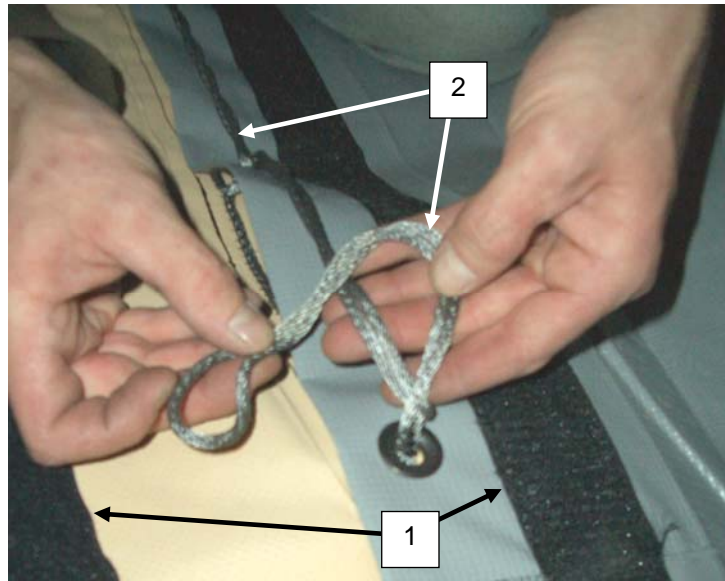


Figure 24. Untie Vestibule Assembly to End Section Becket Lacing.

14. Repeat Steps 12 and 13 for the opposite side of the vestibule assembly.
 15. Remove the vestibule assembly from the end section.

END OF TASK

REPLACE - CONTINUED**Install Vestibule Assembly****NOTE**

The vestibule assembly is attached to the TEMPER, Air-Supported end section with becket lacing and hook and pile fastening tapes (Figure 25).

A step aid may be required to reach the becket laces at the top of the end section.

1. From the top center of the vestibule assembly, Lift the tent end of the vestibule assembly into position, aligning the top center end section grommets (Figure 25, Item 1) with the becket laces on the vestibule fabric (Figure 25, Item 2).

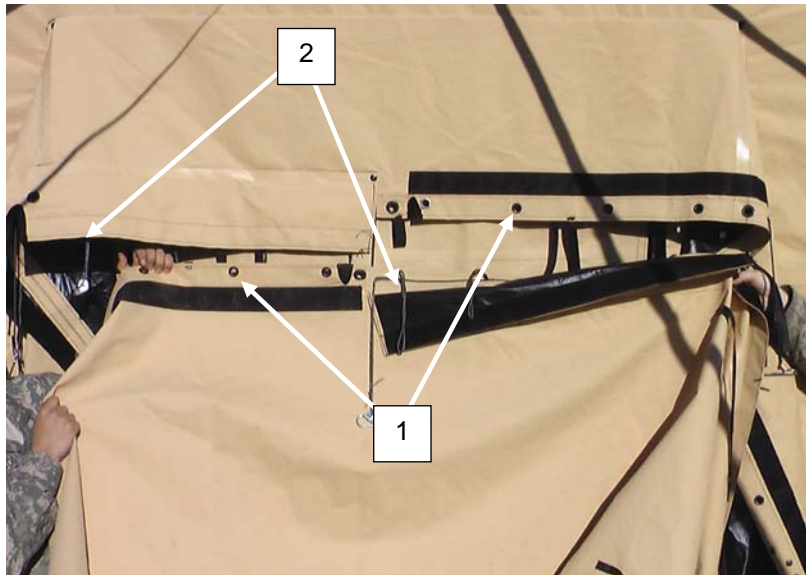


Figure 25. TEMPER, Air-Supported End Section.

2. Beginning at the top center of the vestibule assembly, pull the first becket lace (Figure 26, Item 1) in the end section through the top aligned grommet in the vestibule assembly (Figure 26, Item 2).

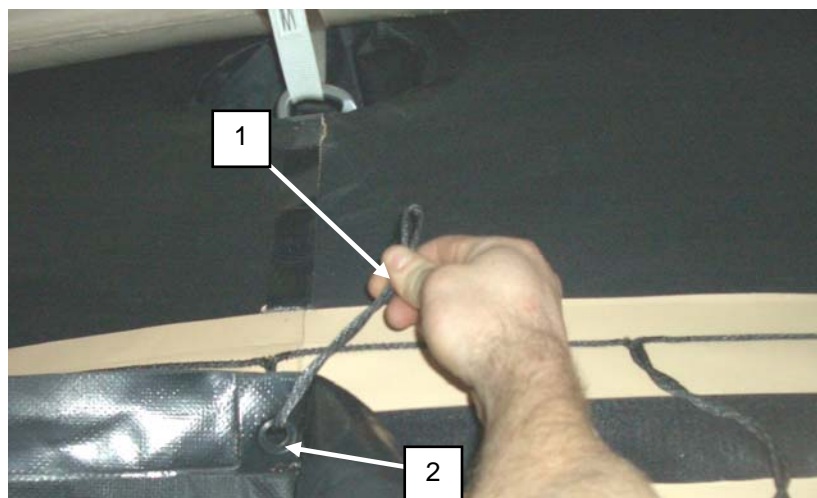


Figure 26. Pull First Becket Lace through Top Grommet in Vestibule.

REPLACE - CONTINUED

3. Then, grasp the second becket lace on the end section (Figure 27, Item 1), and thread it through the second vestibule grommet (Figure 27, Item 2), and loop of the first becket lace (Figure 27, Item 3), pulling it tight toward the bottom of the vestibule and end section.

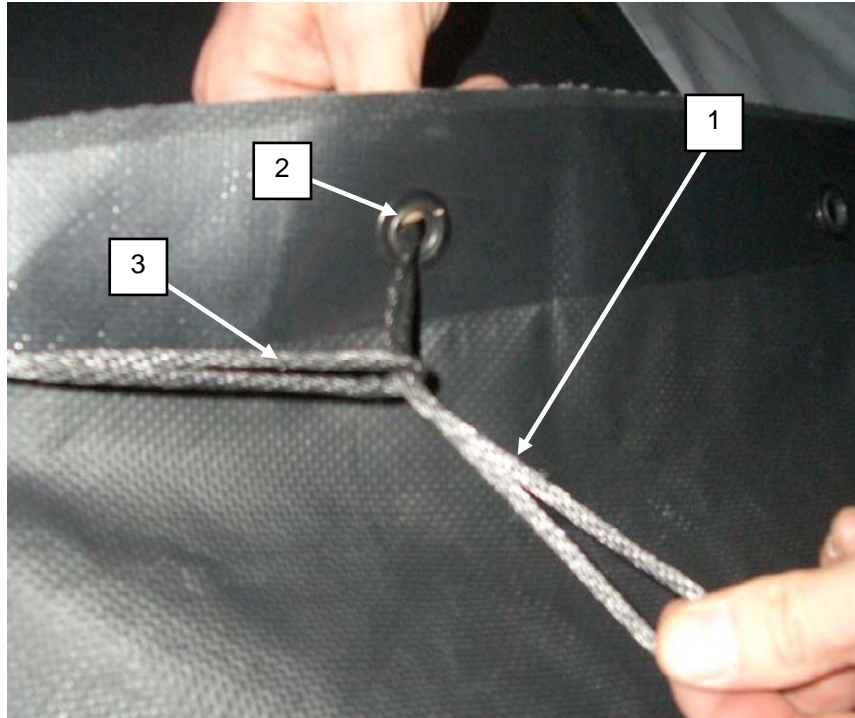


Figure 27. Pull Second Becket Lace through Grommet and First Becket Lace.

4. Grasp the third becket lace (Figure 28, Item 1) on the end section and thread it through the third aligned grommet (Figure 28, Item 2) on the end section and loop of the second becket lace (Figure 28, Item 3) pulling it tight toward the bottom of the end section.
5. Continue this procedure, lacing the becket loops until the bottom of the end section is reached (Figure 28, Item 4). As the lacing progresses, close the hook and pile wind flap on the tent section over the becket lacing.

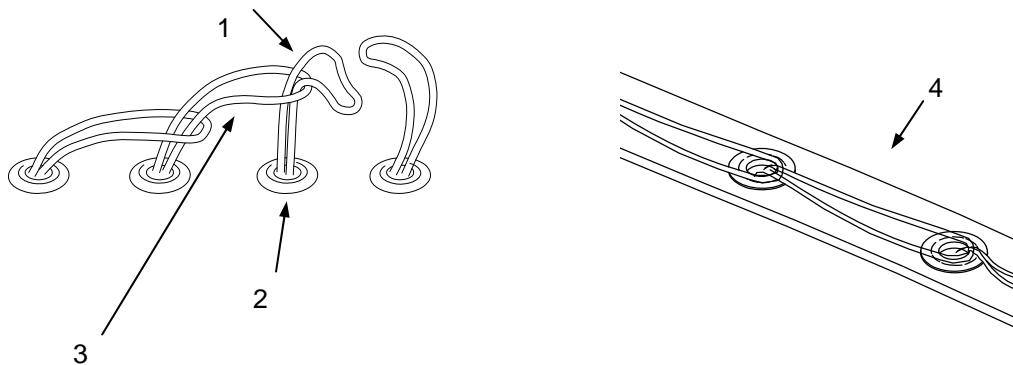


Figure 28. Becket Lacing Sequence.

REPLACE - CONTINUED

6. Upon reaching the last becket lace on the end section at the bottom of the vestibule, insert the last becket lace (Figure 29, Item 1) through the loop of the next to last becket lace (Figure 29, Item 2).

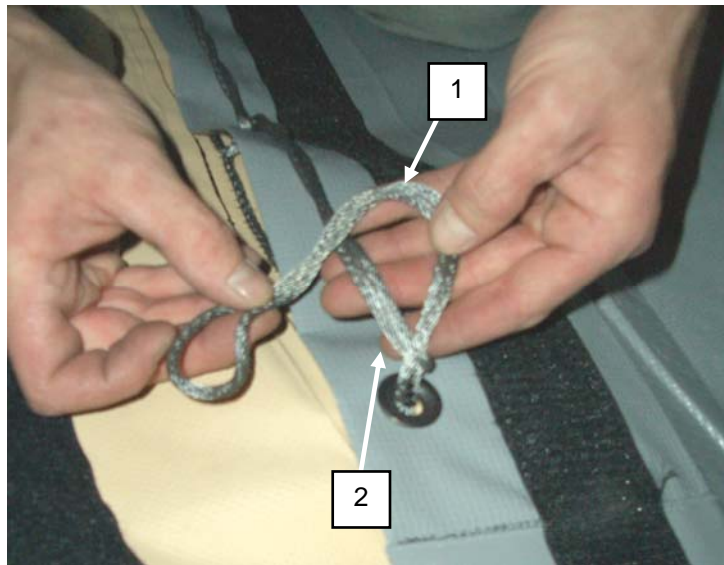


Figure 29. Thread Last Becket Lace through Next to Last Loop.

7. Pull the last becket lace tight back toward the top of the vestibule and tie it off with a half-hitch knot (Figure 30, Item 1). Seal the remaining section of the hook and pile wind flap (Figure 30, Item 2).

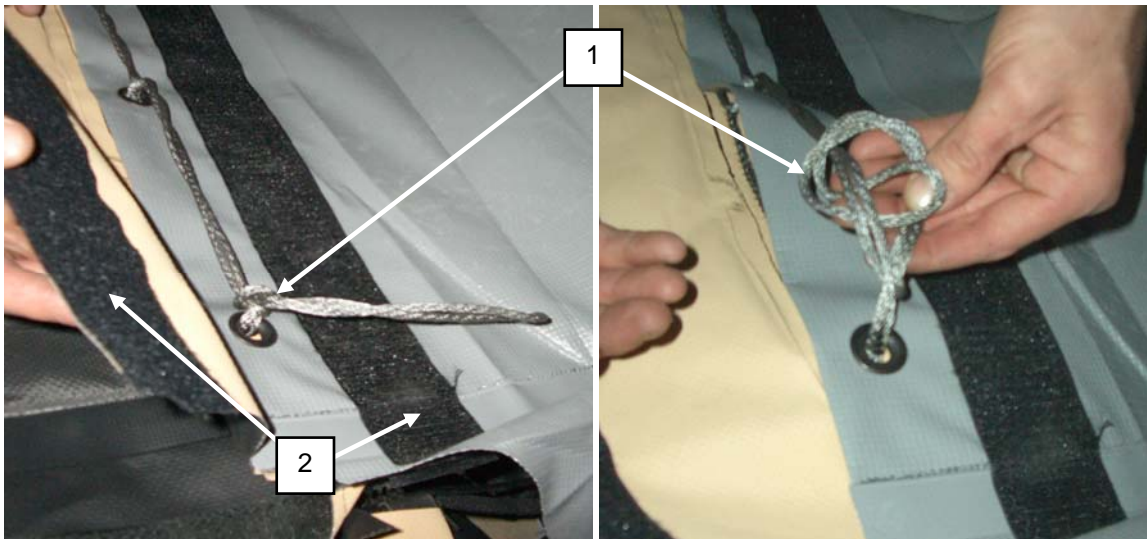


Figure 30. Tie Becket Loop Half-Hitch Knot.

8. Repeat Steps 2 through 7 for the opposite side of the vestibule connection to the shelter end section.
9. Erect Vestibule Assembly IAW WP 0005, paragraph 'Erecting Temper Vestibule'.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE

**UPPER RATCHET EXTERNAL BRACING ASSEMBLY
SERVICE, REPLACE**

INITIAL SETUP:

Materials/Parts

Detergent, General Purpose (WP 0064, Item 7)
Rag, Wiping (WP 0064, Item 12)

Personnel Required

Non-MOS Specific (2)

Tools and Special Tools

Hammer, Sledge (WP 0065, Item 1)
Tool, Stake Removal (WP 0065, Item 5)

Equipment Condition

Shelter deployed or struck
Snow Straps Removed

References

WP 0006, WP 0007, WP 0035

SERVICE

Clean the component as needed to remove dirt or other debris. Use warm, soapy water and a rag. Dry the component completely.

REPLACE

NOTE

The upper ratchet external bracing assembly (Figure 1, Item 1) can be removed with the tent deployed, but power must be secured to the shelter, and any equipment attached to the shelter should be secured, as the shelter airbeams will sag during this procedure.

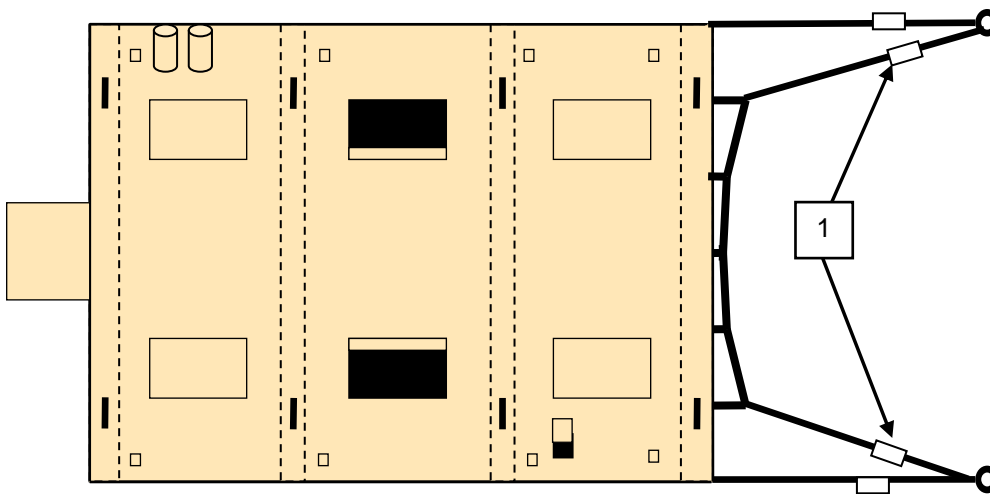


Figure 1. Upper Ratchet External Bracing Assembly.

REPLACE – CONTINUED

WARNING

Exercise extreme care when working with power distribution equipment. Voltages dangerous to life may be present. Failure to do so may cause death or serious injury.

1. Turn off power to any electronic equipment inside the shelter that is connected to the TEMPER, Air-Supported power distribution system.

NOTE

Contact qualified personnel to remove or disconnect the electrical power to the shelter.

Power distribution equipment is installed between the outer skin and liner. Open the liner hook and loop tape fasteners to access power distribution equipment.

2. Turn off all electrical power to the shelter IAW WP 0007.

WARNING

Airbeams may sag inward when shelter external tension is relaxed and attached or suspended equipment may move or shift. Exercise care when relaxing external tension. Failure to do so could result in serious bodily to personnel or equipment damage.

3. Secure any equipment that is attached or suspended from the shelter ceiling, airbeams or shelter exterior. Ensure that equipment will not fall or cause injury when the shelter external bracing (Figure 2, Item 1) is relaxed.

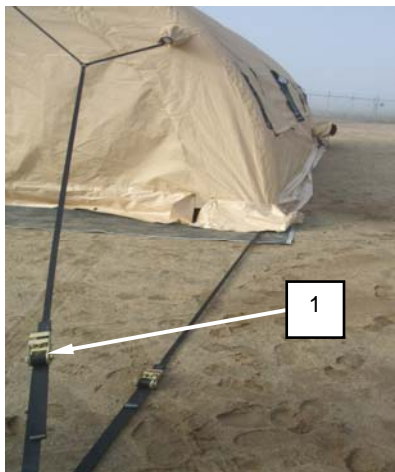


Figure 2. Upper Ratchet External Bracing.

REPLACE - CONTINUED

WARNING



Bracing straps under tension can release with great force and pose a pinch hazard when slackened at the tensioning ratchets. Keep fingers and clothing clear of tensioning ratchets when slacking bracing straps. Failure to do so could result in injury to personnel.

4. Slacken the upper tensioning ratchets (Figure 3, Item 1) by pulling in the tension release handles of the upper tensioning ratchets (Figure 3, Item 2).

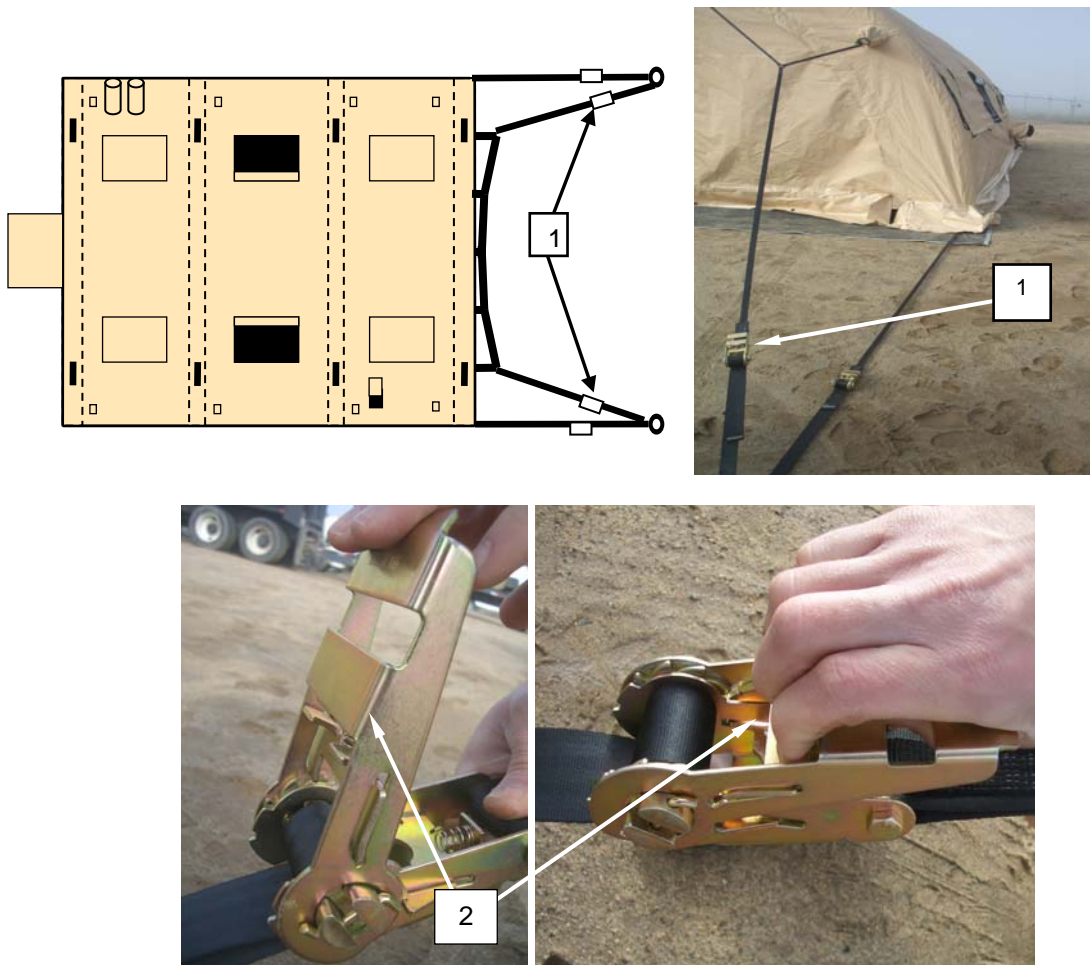


Figure 3. Slacken Upper External Bracing Straps.

REPLACE - CONTINUED

5. At the tent exterior, untie the external tensioning snout securing ties (Figure 4, Item 1).

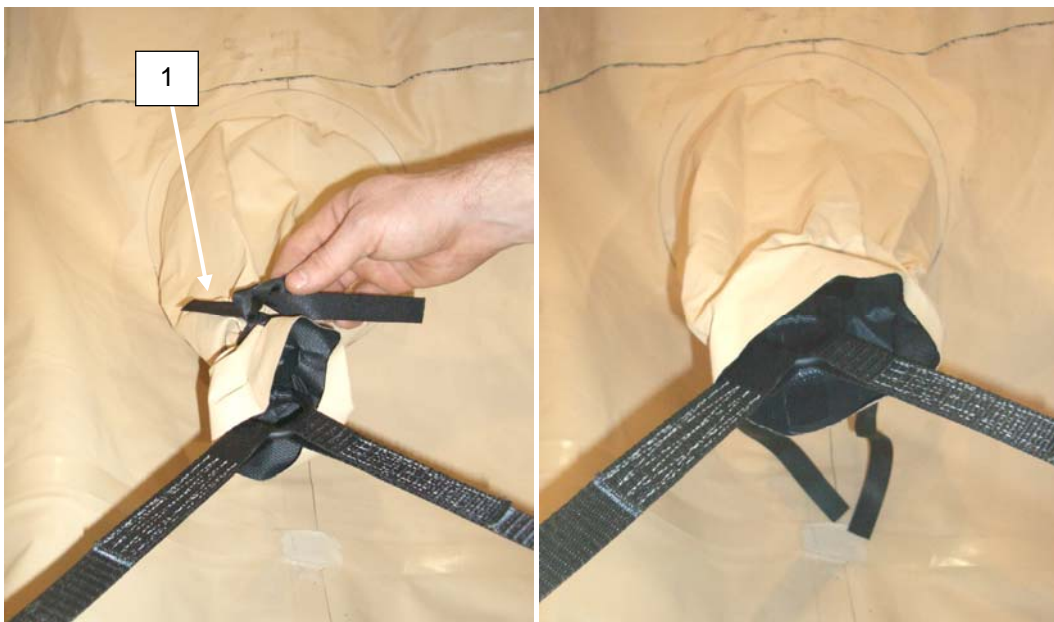
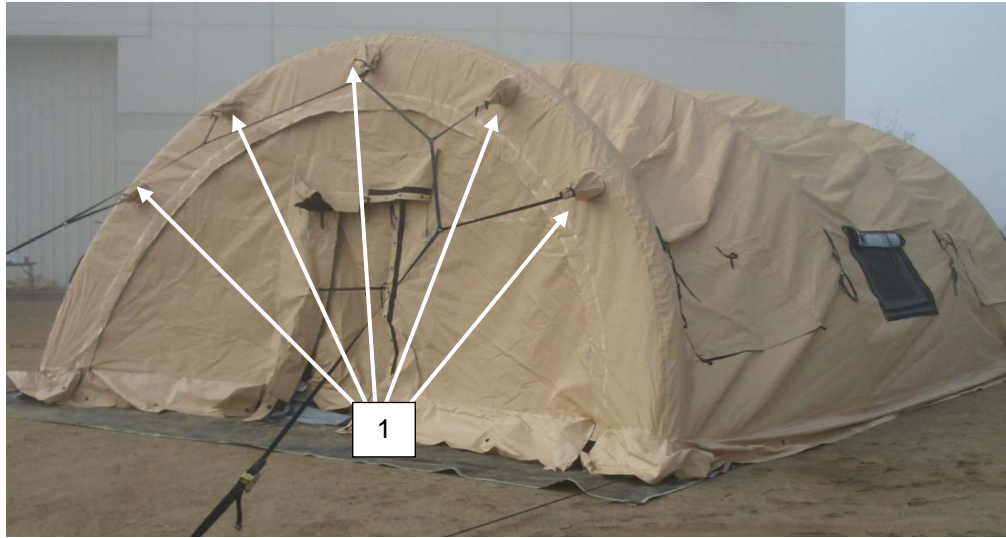


Figure 4. Untie External Tensioning Snout Securing Ties.

REPLACE - CONTINUED

6. At the external tensioning snouts, disconnect the external tensioning carabiners (Figure 5, Item 1) from the airbeam attachment straps (Figure 5, Item 2).

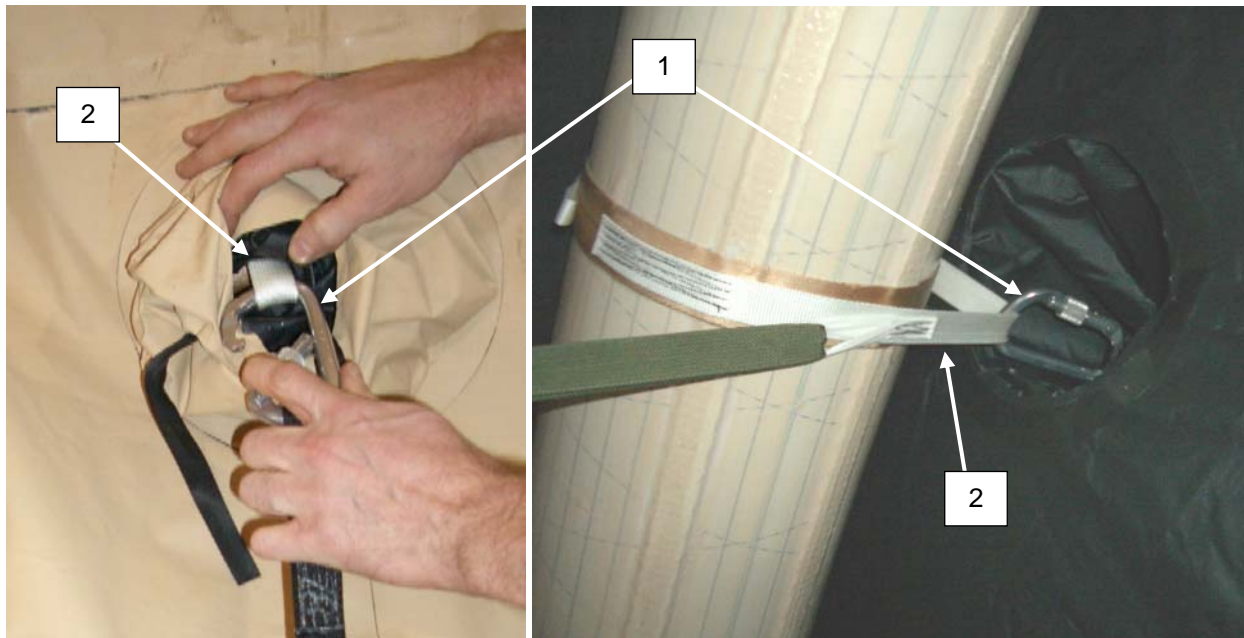


Figure 5. Disconnect External Tensioning Carabiners.

REPLACE - CONTINUED

WARNING



Bracing straps under tension can release with great force and pose a pinch hazard when slackened at the tensioning ratchets. Keep fingers and clothing clear of tensioning ratchets when slacking bracing straps. Failure to do so could result in injury to personnel.

7. Slacken the lower tensioning ratchets (Figure 6, Item 1) by pulling in the tension release handles of the lower tensioning ratchets (Figure 6, Item 2).

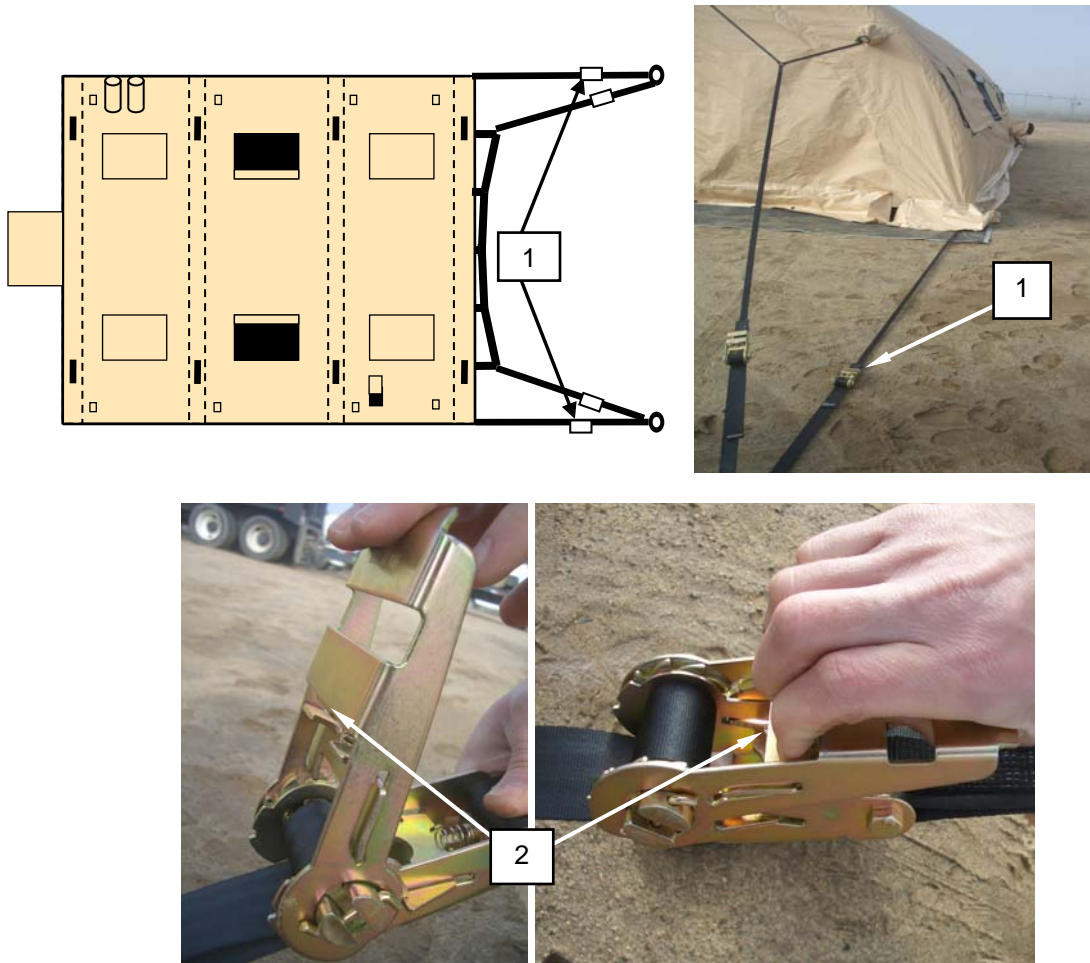


Figure 6. Slacken Lower External Bracing Straps.

REPLACE - CONTINUED**CAUTION**

Ensure that the positioning order of the external bracing strap rings on the 36 inch tent pin is maintained when removing the 36 inch tent pins, and replacing the upper ratchet bracing assembly. Failure to do so may result in damage to equipment during reinstallation.

NOTE

Use the stake removal tool to lift 36 inch tent pins from the ground.

8. Remove both 36 inch tent pins (Figure 7, Item 1) from the ground with the stake removal tool (Figure 7, Item 2) and suitable lifting equipment.

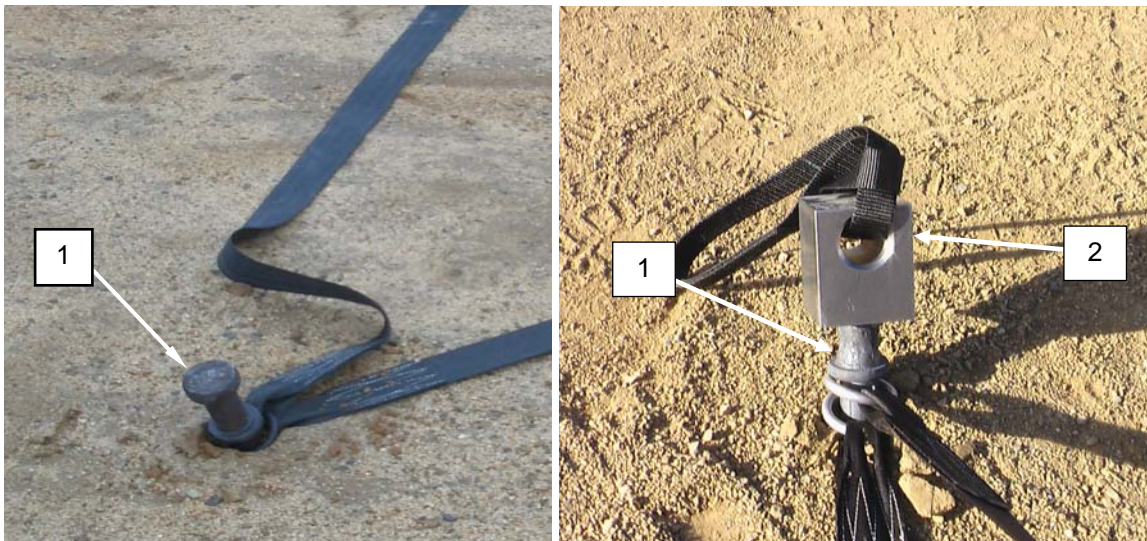


Figure 7. Stake Removal Tool.

9. Remove both upper and lower external bracing strap rings from the 36 inch tent pins (Figure 7).
10. Set aside the removed upper ratchet external bracing assembly.

REPLACE - CONTINUED

11. With the replacement upper ratchet external bracing assembly, pass the external tensioning carabiners (Figure 8, Item 1) through the external tensioning snouts and attach the carabiners to the airbeam securing strap loops (Figure 8, Item 2).

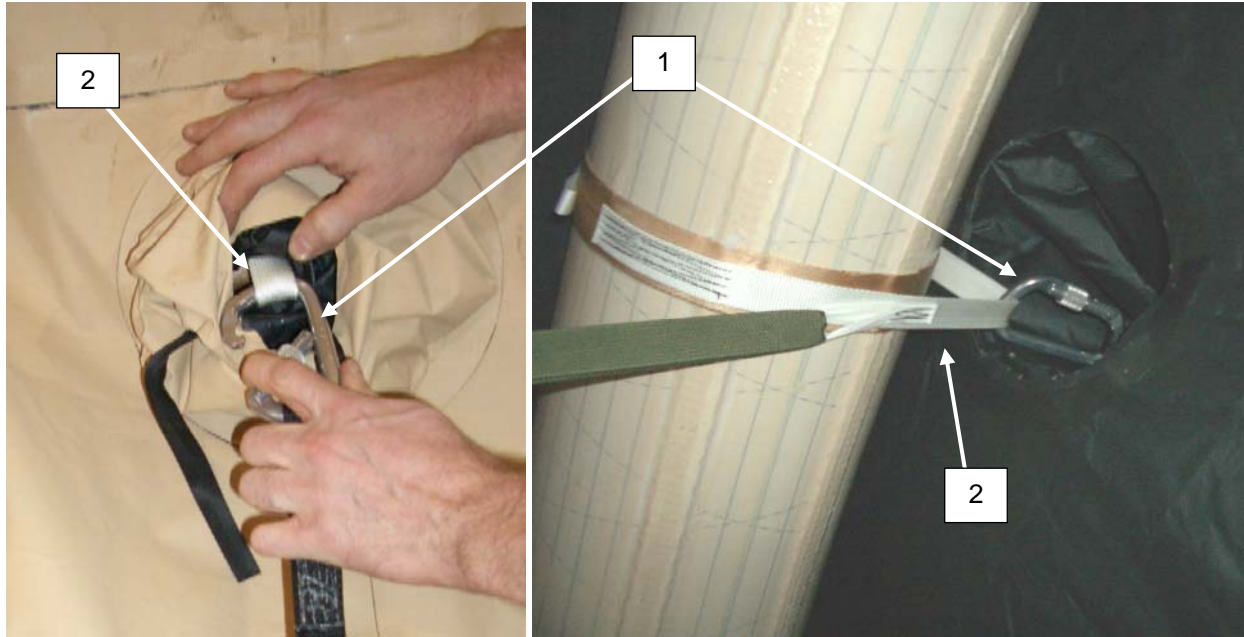


Figure 8. Connect External Tensioning Carabiners.

12. On the tent exterior, using the attached external tensioning snout securing ties, wrap and tie the snouts with the securing ties (Figure 9, Item 1).



Figure 9. Wrap and Tie External Tensioning Snouts.

REPLACE - CONTINUED

13. Reconnect the upper and lower external bracing strap rings (Figure 10, Item 1) to the 36 inch tent pins (Figure 10, Item 2) in the order removed in Step 9.

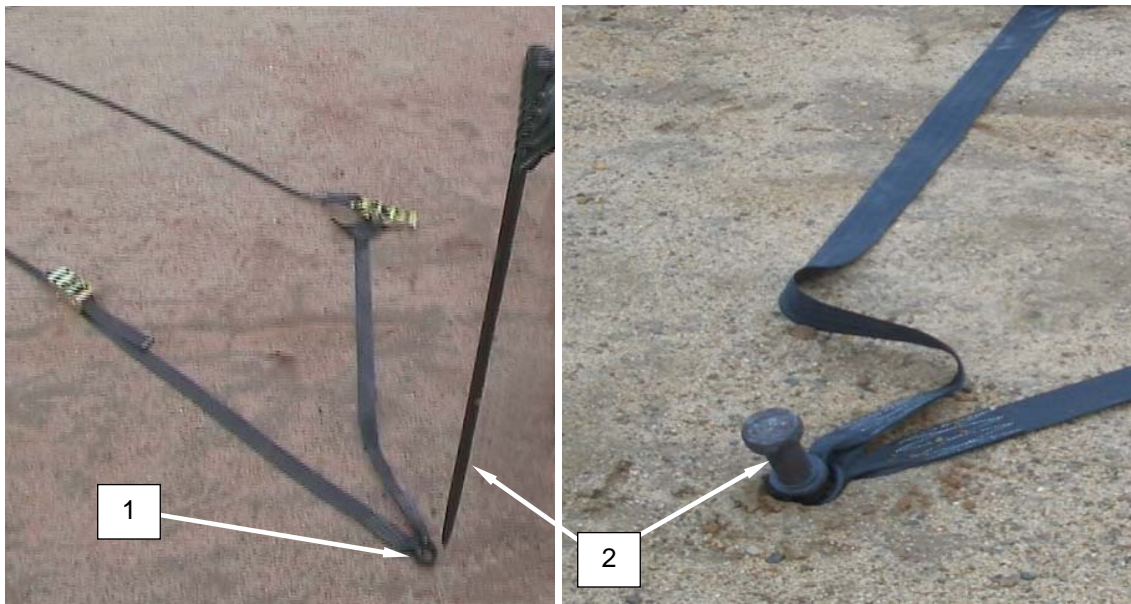


Figure 10. Position Bracing Strap End Rings.

14. With a sledge hammer, drive the 36 inch tent pin (Figure 10, Item 2) into its original location.

REPLACE - CONTINUED

15. Tension both of the lower ratchet external bracing straps by grasping the bail handle of the lower tensioning ratchet (Figure 11, Item 1) and pulling up and backwards in a ratcheting motion until tight.

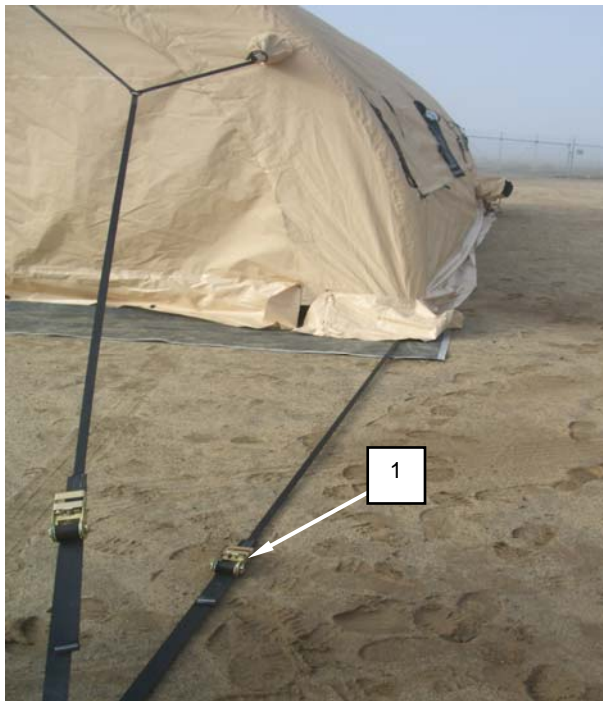


Figure 11. Tension Lower Ratchet External Bracing Straps.

REPLACE - CONTINUED

16. At the door end of the tent, on the upper ratchet external bracing straps (Figure 12, Item 1) grasp the strap end extending from the tensioning ratchet (Figure 12, Item 2), and pull out the slack in both upper ratchet external bracing straps until the straps are hand tight.

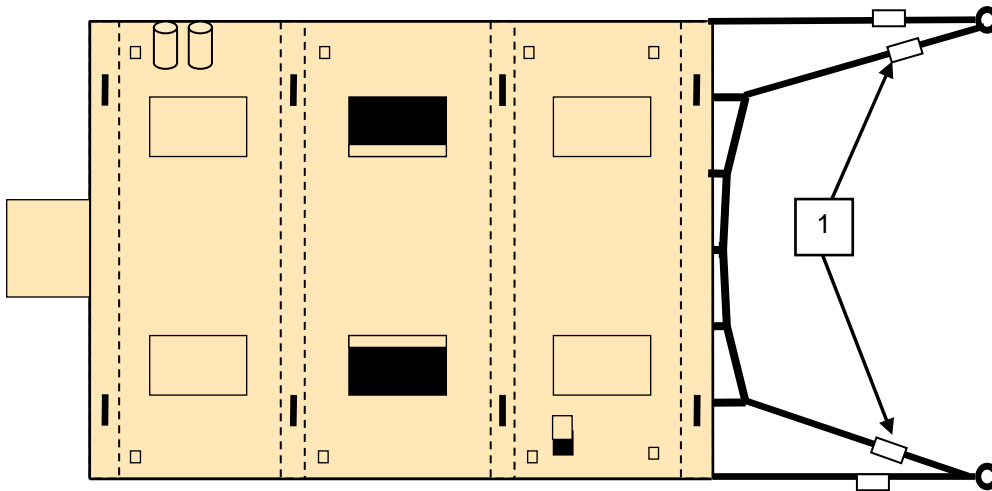


Figure 12. Removing Slack from Upper Ratchet External Bracing Straps.

REPLACE - CONTINUED

NOTE

The tent is tensioned and aligned by alternately tightening the tensioning ratchets on the upper ratchet external bracing straps, using the bracing strap connections at the snouts top of the tent for visual alignment and centering, as shown below, properly aligned and centered (Figure 13, Item 1).

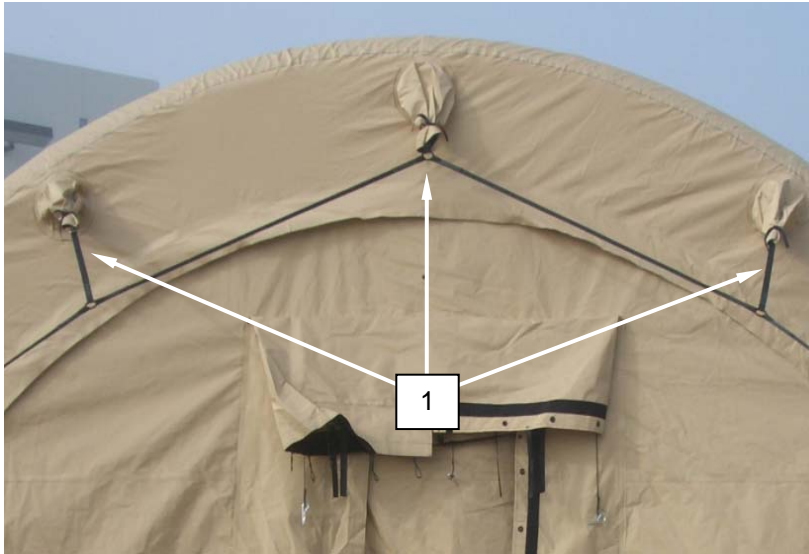


Figure 13. External Bracing Tensioned.

17. At either of the upper ratchet external bracing strap tensioning ratchets, grasp the bail handle (Figure 14, Item 1), and pull up and back in a ratcheting motion to tighten the strap.



Figure 14. Tighten Upper Ratchet External Bracing Strap with Tensioning Ratchet.

18. Alternately tighten the left and right upper tensioning ratchets until the tent is evenly aligned and centered as shown above (Figure 13, Item 1), and the straps are tight.

REPLACE - CONTINUED

19. At both of the lower ratchet external bracing straps (Figure 15, Item 1), re-tighten the tensioning ratchets (Figure 15, Item 2), removing any slack created when the upper ratchet external bracing straps were tensioned.

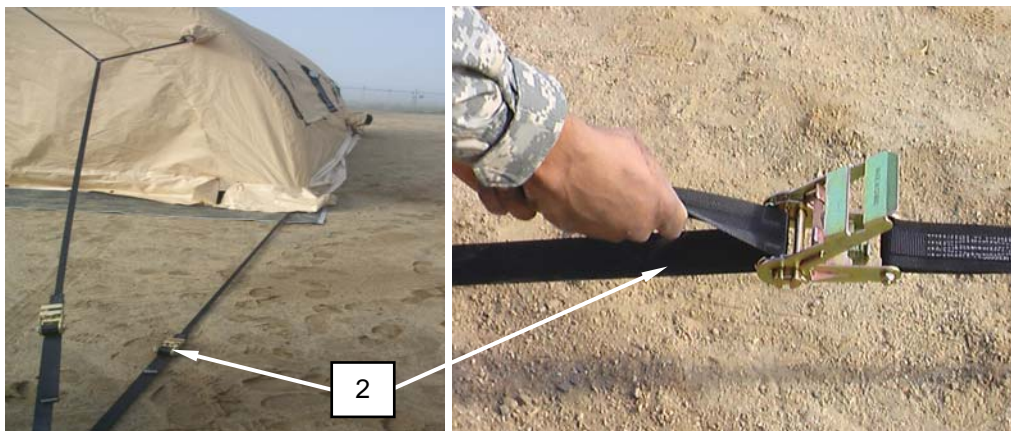
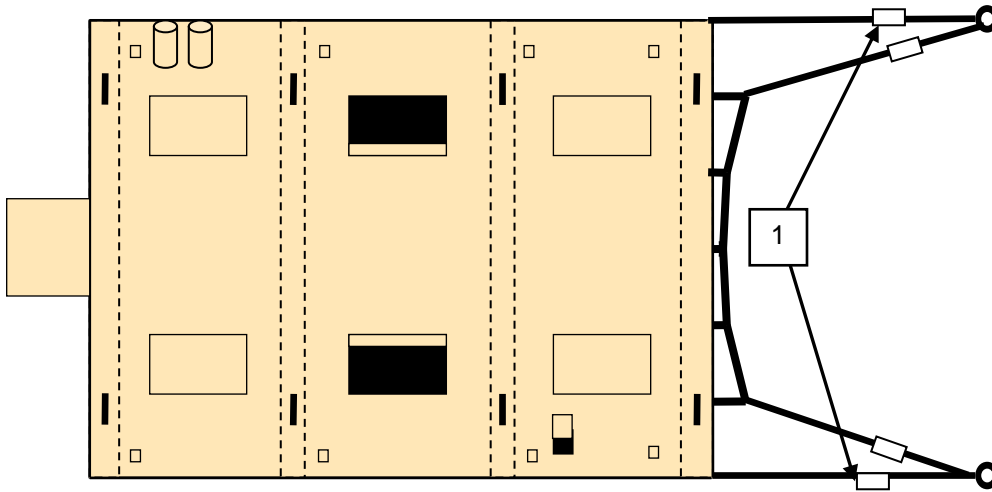


Figure 15. Tighten Lower Ratchet External Bracing Straps.

20. Restore any equipment affected by this replacement procedure.
21. Restore Power and Lighting IAW WP 0006.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE

**LOWER RATCHET EXTERNAL BRACING ASSEMBLY
SERVICE, REPLACE**

INITIAL SETUP:

Tools and Special Tools

Hammer, Sledge (WP 0065, Item 1)
Tool, Stake Removal (WP 0065, Item 5)

Personnel Required

Non-MOS Specific (2)

Equipment Condition

Remove Snow Straps
Shelter deployed or struck.

Materials/Parts

Detergent, General Purpose (WP 0064, Item 7)
Rag, Wiping (WP 0064, Item 12)

References

WP 0006, WP 0007

SERVICE

Clean the component as needed to remove dirt or other debris. Use warm, soapy water and a rag. Dry the component completely.

REPLACE

NOTE

The lower ratchet external bracing assembly (Figure 1, Item 1) can be removed with the tent deployed, but electrical power must be secured, and installed equipment should be secured, as the shelter airbeams will sag during this procedure.

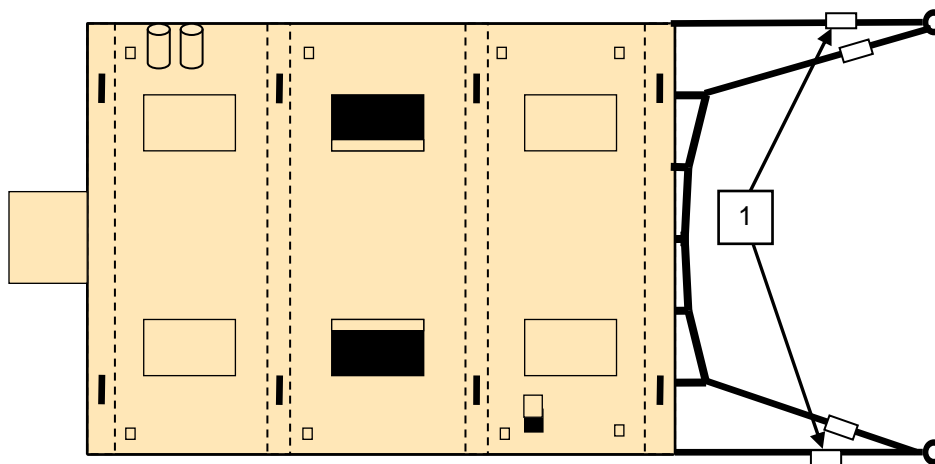


Figure 1. Lower Ratchet External Bracing Assembly.

REPLACE – CONTINUED

WARNING



Exercise extreme care when working with power distribution equipment. Voltages dangerous to life may be present. Failure to do so may cause death or serious injury.

1. Turn off power to any electronic equipment inside the shelter that is connected to the TEMPER, Air-Supported power distribution system.

NOTE

Contact qualified personnel to disconnect the external electrical power to the shelter. Power distribution equipment is installed between the outer skin and liner. Open the liner hook and loop tape fasteners to access power distribution equipment.

2. Turn off all electrical power to the shelter IAW WP 0007.

WARNING



Airbeams may sag inward when shelter external tension is relaxed and attached or suspended equipment may move or shift. Exercise care when relaxing external tension. Failure to do so could result in serious bodily injury to personnel or equipment damage.

NOTE

The upper ratchet external bracing must be slackened prior to replacing the lower ratchet bracing assembly.

3. Secure any equipment that is attached or suspended from the shelter ceiling, airbeams or shelter exterior. Ensure that equipment will not fall or cause injury when the shelter upper ratchet external bracing (Figure 2, Item 1) is relaxed.

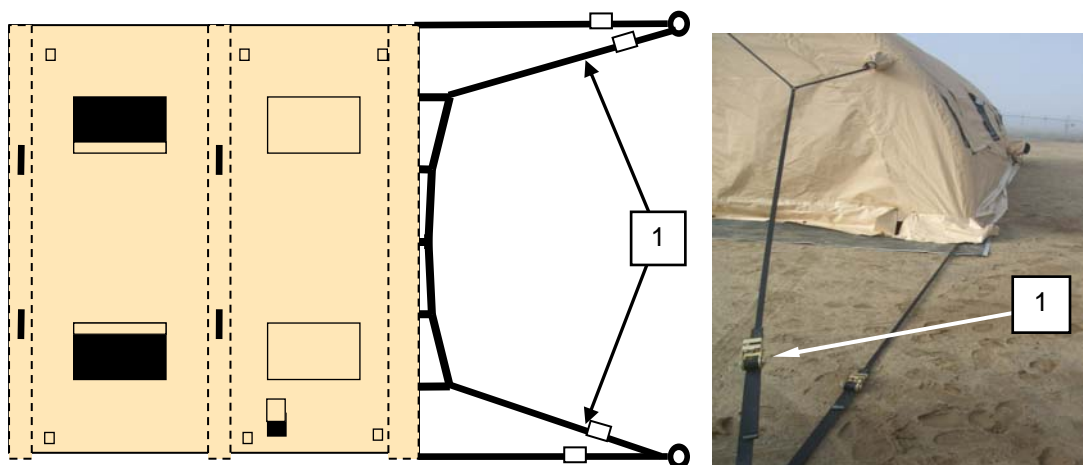


Figure 2. Upper Ratchet External Bracing.

REPLACE - CONTINUED

WARNING



Bracing straps under tension can release with great force and pose a pinch hazard when slackened at the tensioning ratchets. Keep fingers and clothing clear of tensioning ratchets when slacking bracing straps. Failure to do so could result in injury to personnel.

4. Slacken the upper tensioning ratchets (Figure 3, Item 1) by pulling in the tension release handles of the upper tensioning ratchets (Figure 3, Item 2).

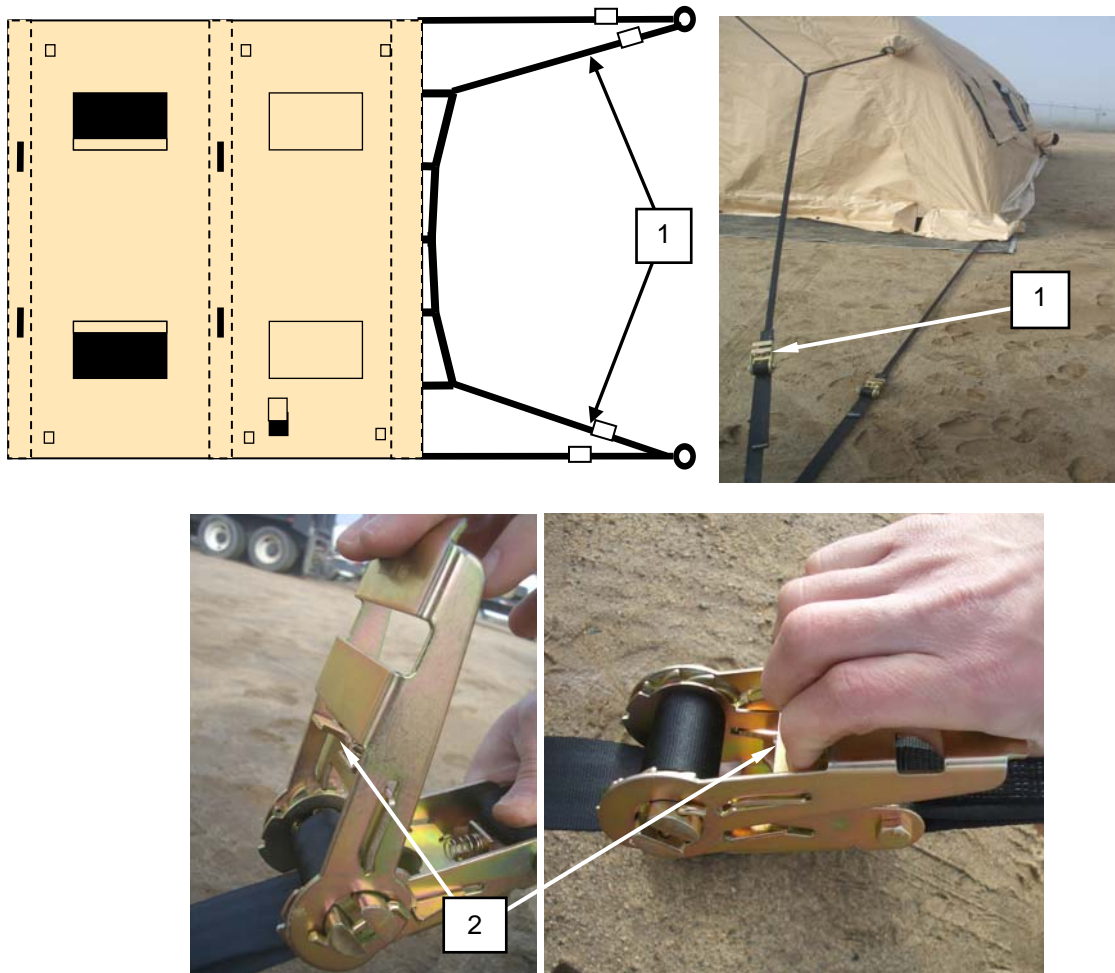


Figure 3. Slacken Upper External Bracing Straps.

REPLACE - CONTINUED

- Slacken the lower tensioning ratchet (Figure 4, Item 1) on the lower ratchet external bracing strap being replaced by pulling in the tension release handle of the tensioning ratchets (Figure 4, Item 2).

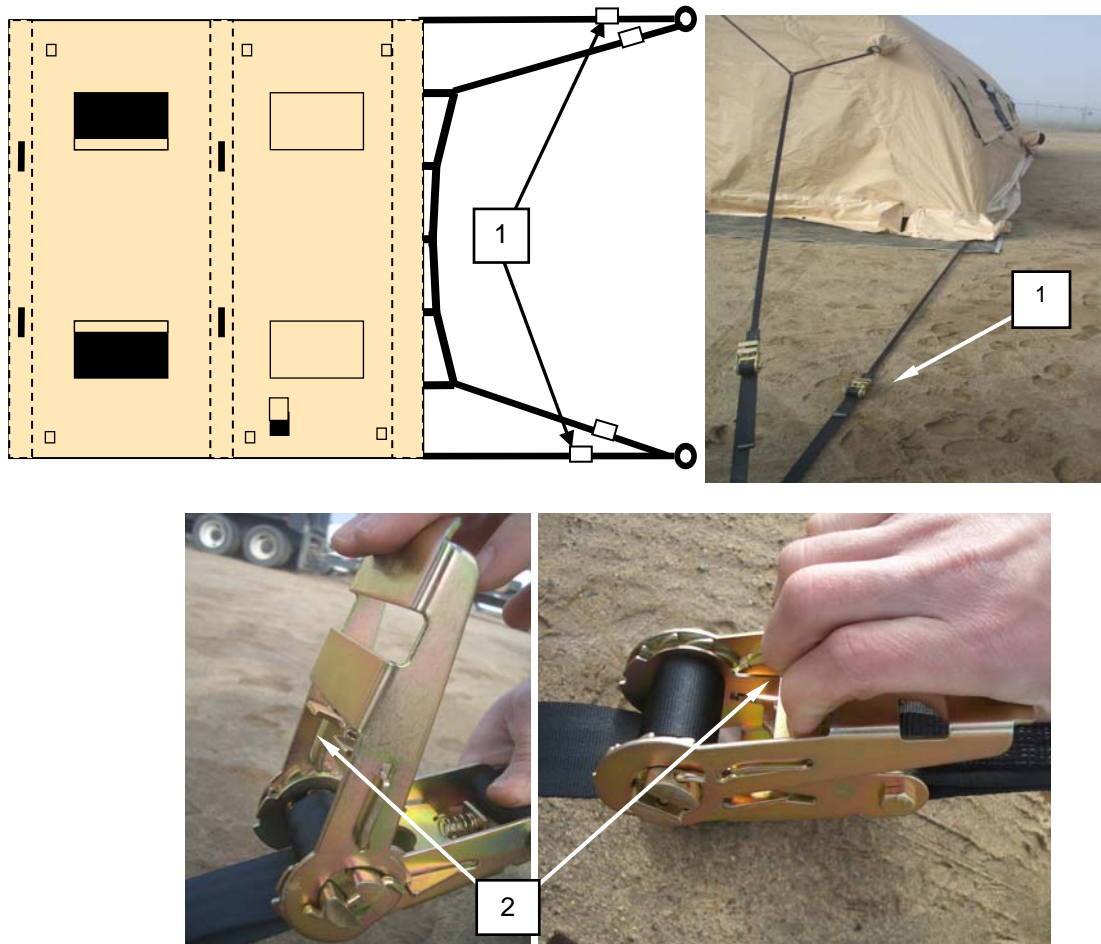


Figure 4. Slacken Lower External Bracing Straps.

- At the end of the lower ratchet external bracing strap (Figure 5, Item 1), disconnect the external tensioning carabiner (Figure 5, Item 2) from the loop on the shelter outer main skin (Figure 5, Item 3).

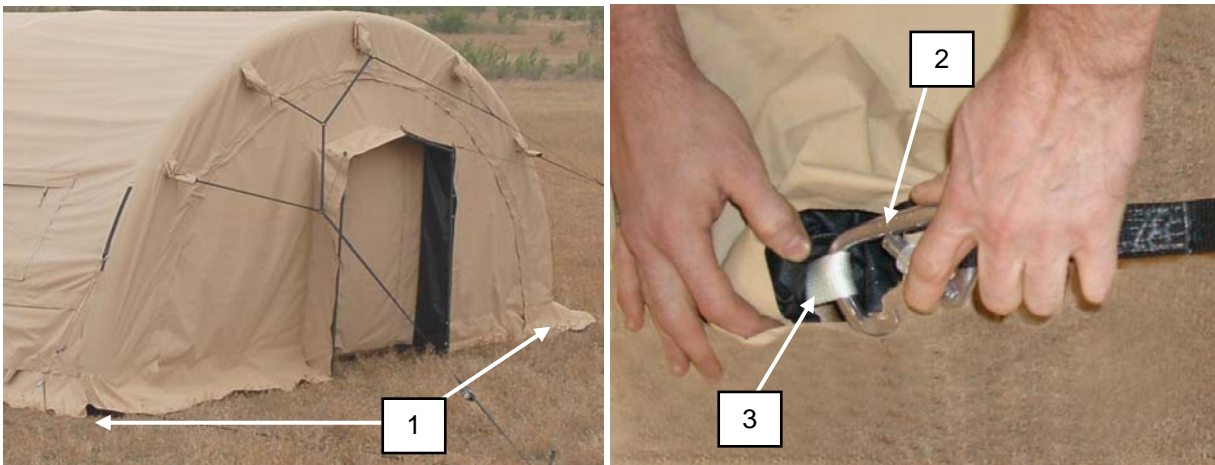


Figure 5. Disconnect External Tensioning Carabiners.

REPLACE - CONTINUED

CAUTION

Ensure that the positioning order of the external bracing strap rings is maintained when removing the 36 inch tent pin and replacing the lower ratchet bracing assembly. Failure to do so may result in damage to equipment during reinstallation.

NOTE

Use the stake removal tool to lift the 36 inch tent pin from the ground.

7. For the lower ratchet external bracing assembly being replaced, remove the 36 inch tent pin (Figure 6, Item 1) with the stake removal tool (Figure 6, Item 2) and suitable lifting equipment.

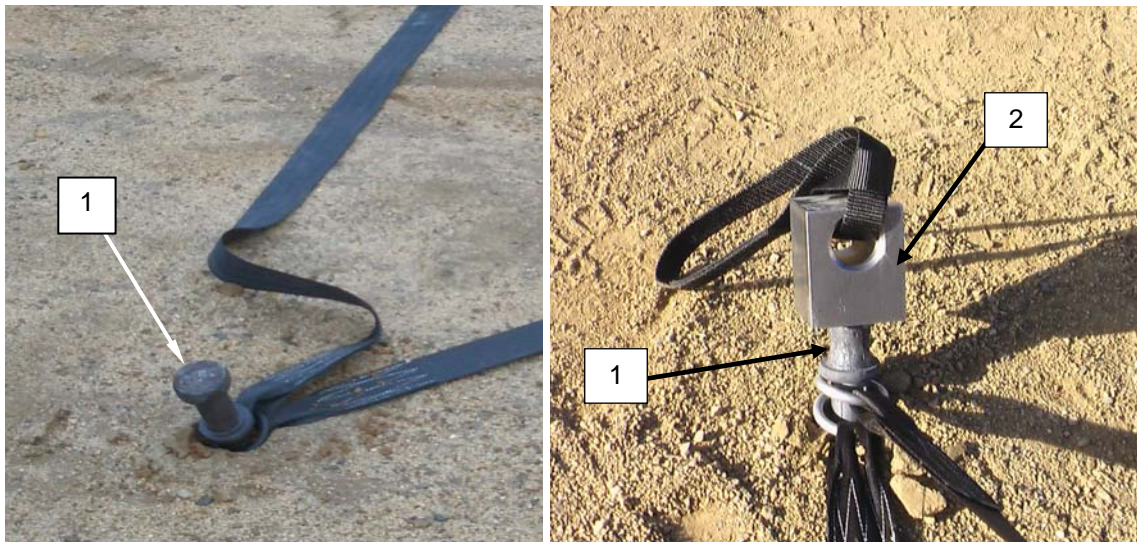


Figure 6. 36 Inch Tent Pin Removal.

8. Remove the upper and lower ratchet external bracing strap rings from the 36 inch tent pins (Figure 6). Ensure that the positioning order of the rings is noted for reinstallation.
9. Set aside the removed lower ratchet external bracing assembly.

REPLACE - CONTINUED

10. With the replacement lower ratchet external bracing assembly (Figure 7, Item 1), attach the external tensioning carabiner (Figure 7, Item 2) to the loop on the shelter outer main skin (Figure 7, Item 3).

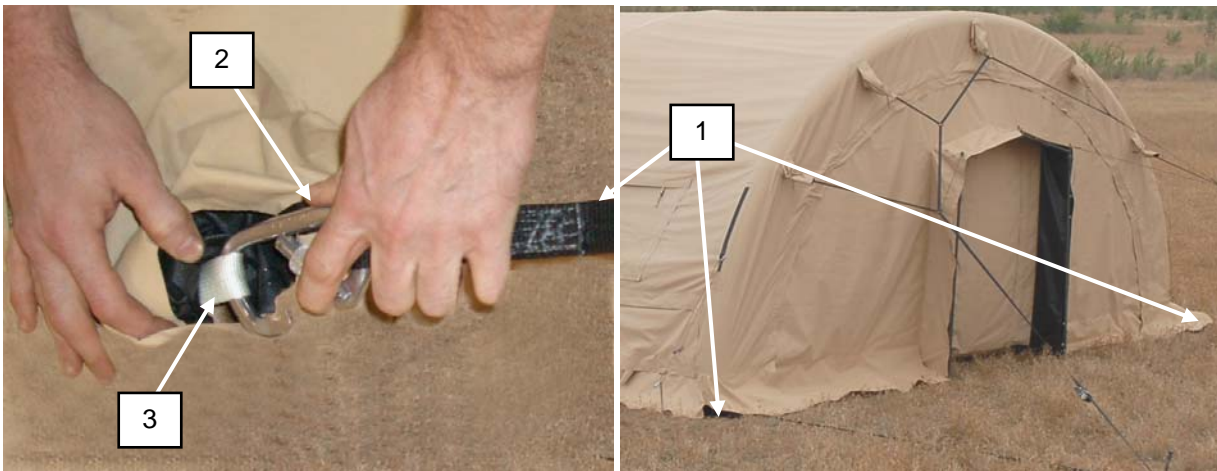


Figure 7. Disconnect External Tensioning Carabiners.

11. Reconnect the upper and lower external bracing strap rings (Figure 8, Item 1) to the 36 inch tent pins (Figure 8, Item 2) in the order removed in Step 8.



Figure 8. Position Bracing Strap End Rings.

12. With a sledge hammer, drive the 36 inch tent pin (Figure 8, Item 2) into its original location.

REPLACE - CONTINUED

13. Tension the new lower ratchet external bracing straps by grasping the bail handle of the lower tensioning ratchet (Figure 9, Item 1) and pulling up and backwards in a ratcheting motion until tight.

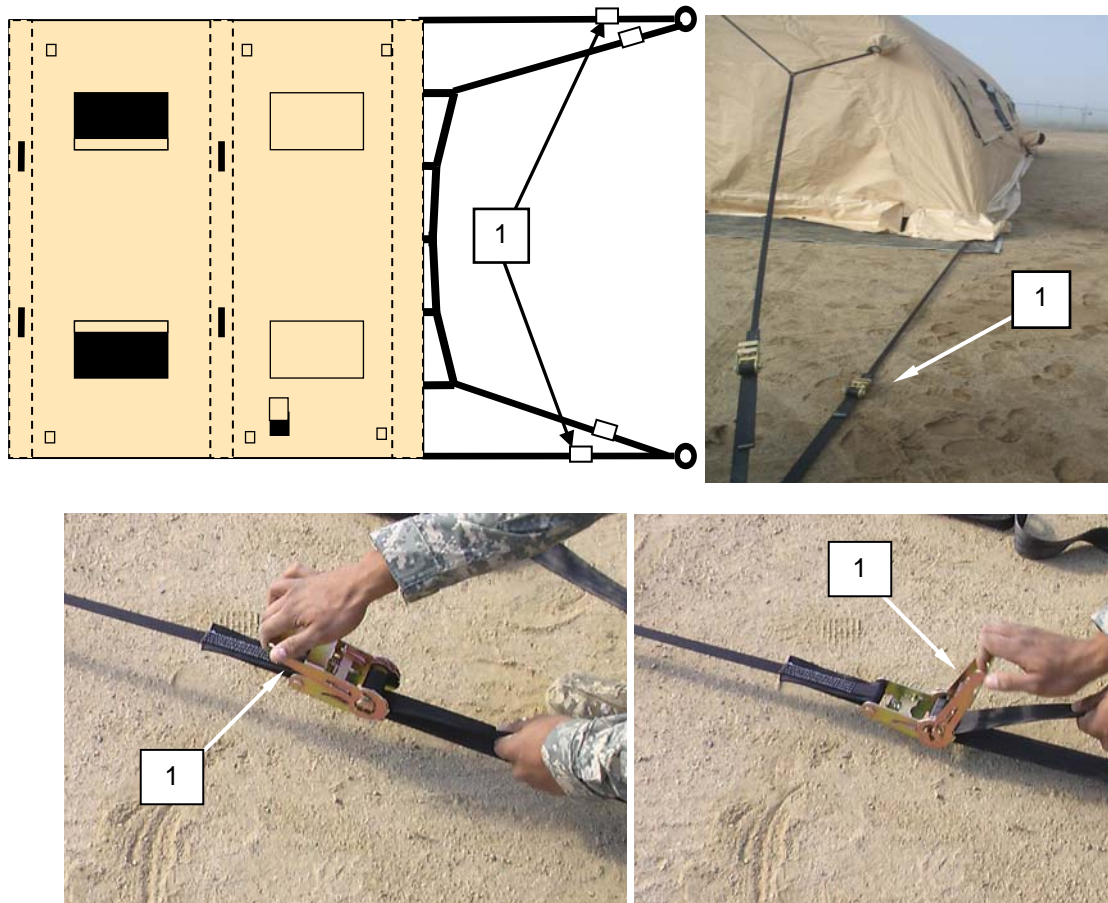


Figure 9. Tension Lower Ratchet External Bracing Strap.

REPLACE - CONTINUED

14. At both of the upper ratchet external bracing straps (Figure 10, Item 1) grasp the strap end extending from the tensioning ratchet (Figure 10, Item 2), and pull out the slack in both upper ratchet external bracing straps until the straps are hand tight.

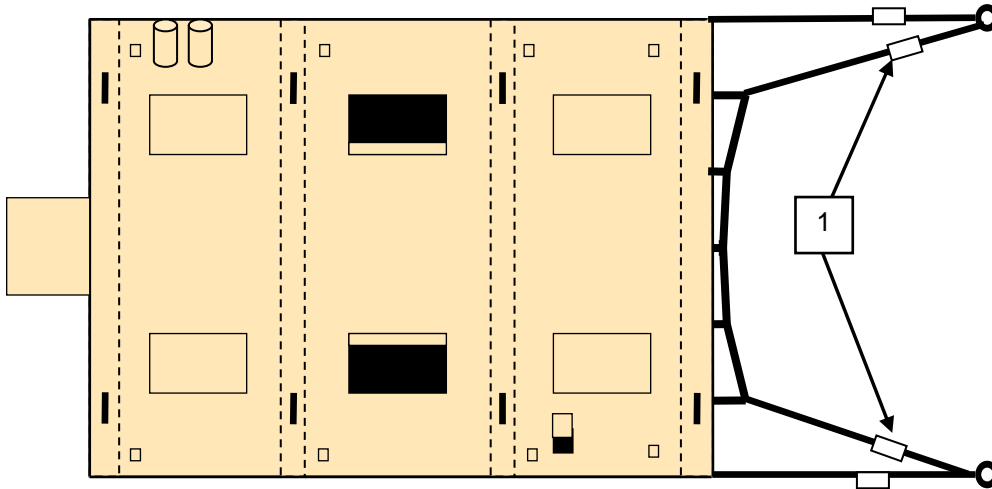


Figure 10. Removing Slack from Upper Ratchet External Bracing Straps.

REPLACE - CONTINUED

NOTE

The tent is tensioned and aligned by alternately tightening the tensioning ratchets on the upper ratchet external bracing straps, using the bracing strap connections at the snouts top of the tent for visual alignment and centering, as shown below, properly aligned and centered (Figure 11, Item 1).

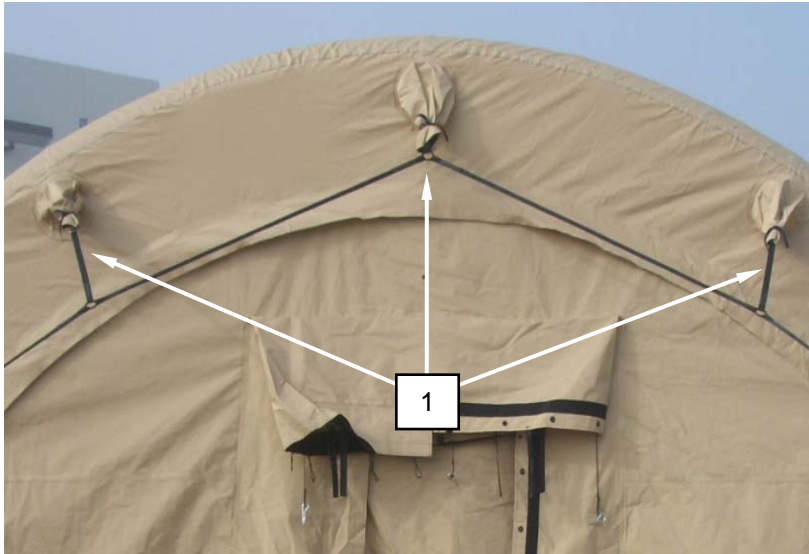


Figure 11. External Bracing Tensioned.

15. At either of the upper ratchet external bracing strap tensioning ratchets, grasp the bail handle (Figure 12, Item 1), and pull up and back in a ratcheting motion to tighten the strap.



Figure 12. Tighten Upper Ratchet External Bracing Strap with Tensioning Ratchet.

16. Alternately tighten the left and right upper tensioning ratchets until the tent is evenly aligned and centered as shown above (Figure 11, Item 1), and the straps are tight.

REPLACE - CONTINUED

17. At both of the lower ratchet external bracing straps (Figure 13, Item 1), re-tighten the tensioning ratchets (Figure 13, Item 2), removing any slack created when the upper ratchet external bracing straps were tensioned.

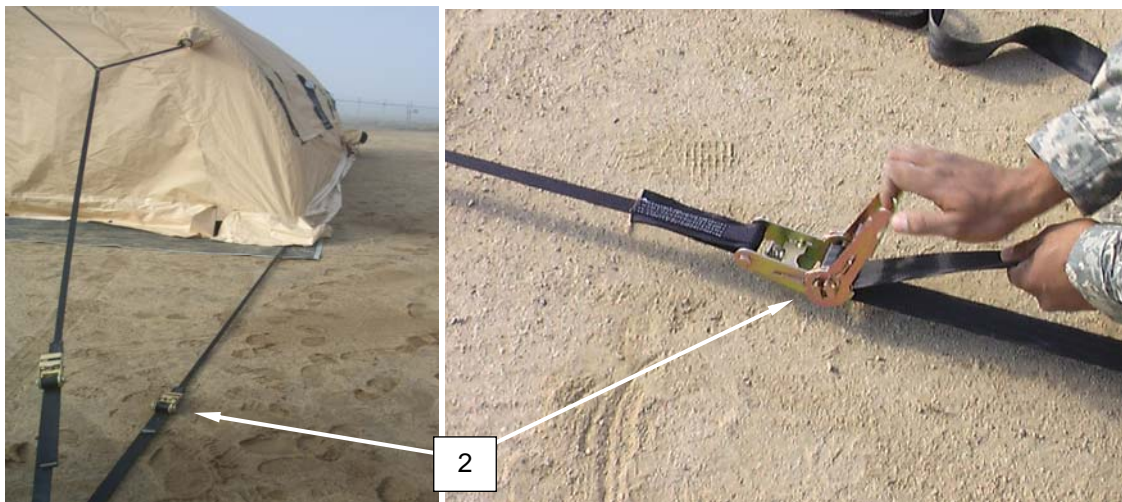
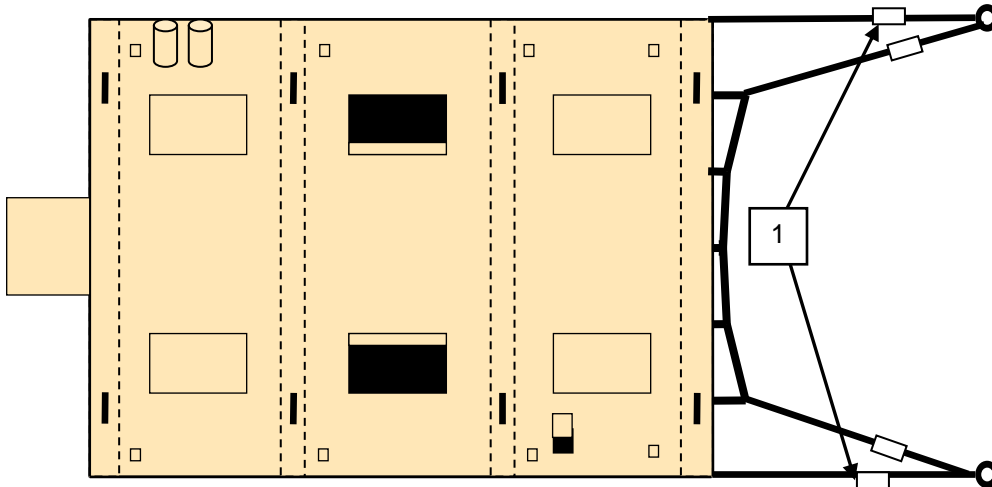


Figure 13. Tighten Lower Ratchet External Bracing Straps.

18. Restore any equipment affected by this replacement procedure.
19. Restore Power and Lighting IAW WP 0006.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
FIXED EXTERNAL BRACING ASSEMBLY
SERVICE, REPLACE

INITIAL SETUP:

Tools and Special Tools

Hammer, Sledge (WP 0065, Item 1)
 Tool, Stake Removal (WP 0065, Item 5)

Personnel Required

Non-MOS Specific (2)

Equipment Condition

Snow Straps Removed
 Shelter either deployed or struck

Materials/Parts

Detergent, General Purpose (WP 0064, Item 7)
 Rag, Wiping (WP 0064, Item 12)

References

WP 0006, WP 0007

SERVICE

Clean the component as needed to remove dirt or other debris. Use warm, soapy water and a rag. Dry the component completely.

REPLACE

NOTE

The fixed external bracing assembly (Figure 1, Item 1) can be removed with the tent deployed, but external tension on the shelter must be relaxed (but not removed). Power must be turned off to the shelter, and any equipment attached to the shelter should be turned off, as the shelter airbeams will sag during this procedure.

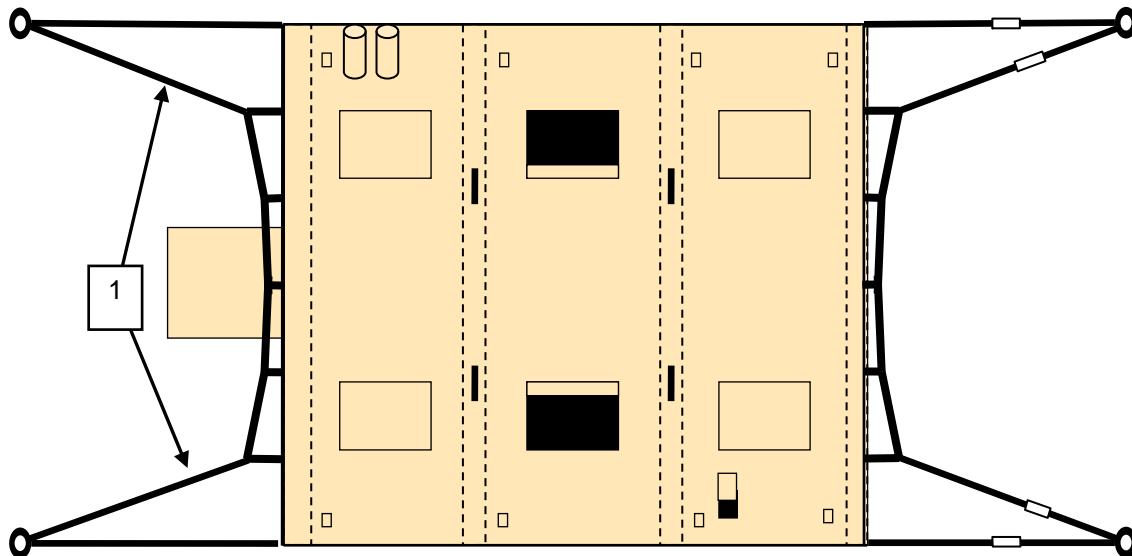


Figure 1. Fixed External Bracing Assembly.

REPLACE - CONTINUED

WARNING



Exercise extreme care when working with power distribution equipment. Voltages dangerous to life may be present. Failure to do so may cause death or serious injury.

1. Turn off power to any electronic equipment inside the shelter that is connected to the TEMPER, Air-Supported power distribution system.

NOTE

Contact qualified personnel to turn off external electrical power to the shelter.

Power distribution equipment is installed between the outer skin and liner. Open the liner hook and loop tape fasteners to access power distribution equipment.

2. Turn off all electrical power to the shelter IAW WP 0007.

WARNING



Airbeams may sag inward when the shelter external tension is relaxed and attached or suspended equipment may move or shift. Exercise care when relaxing external tension. Failure to do so could result in serious bodily injury to personnel or equipment damage.

3. Secure any equipment that is attached or suspended from the shelter ceiling, airbeams or shelter exterior. Ensure that equipment will not fall or cause injury when the shelter external bracing (Figure 2, Item 1) is relaxed.

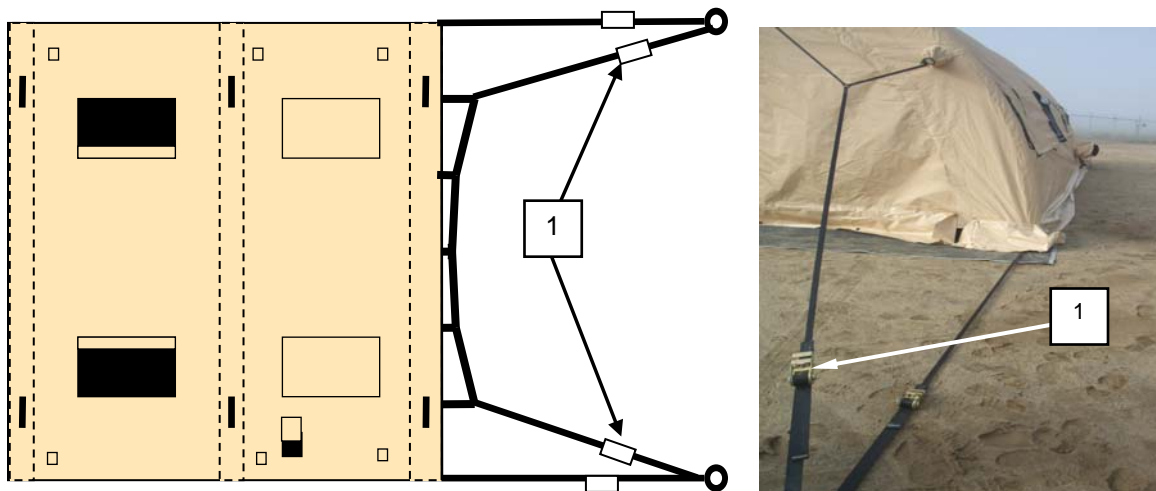


Figure 2. Upper Ratchet External Bracing.

REPLACE - CONTINUED

WARNING



Bracing straps under tension can release with great force and pose a pinch hazard when slackened at the tensioning ratchets. Keep fingers and clothing clear of tensioning ratchets when slacking bracing straps. Failure to do so could result in injury to personnel.

4. Slacken the upper tensioning ratchets (Figure 3, Item 1) by pulling in the tension release handles of the upper tensioning ratchets (Figure 3, Item 2).

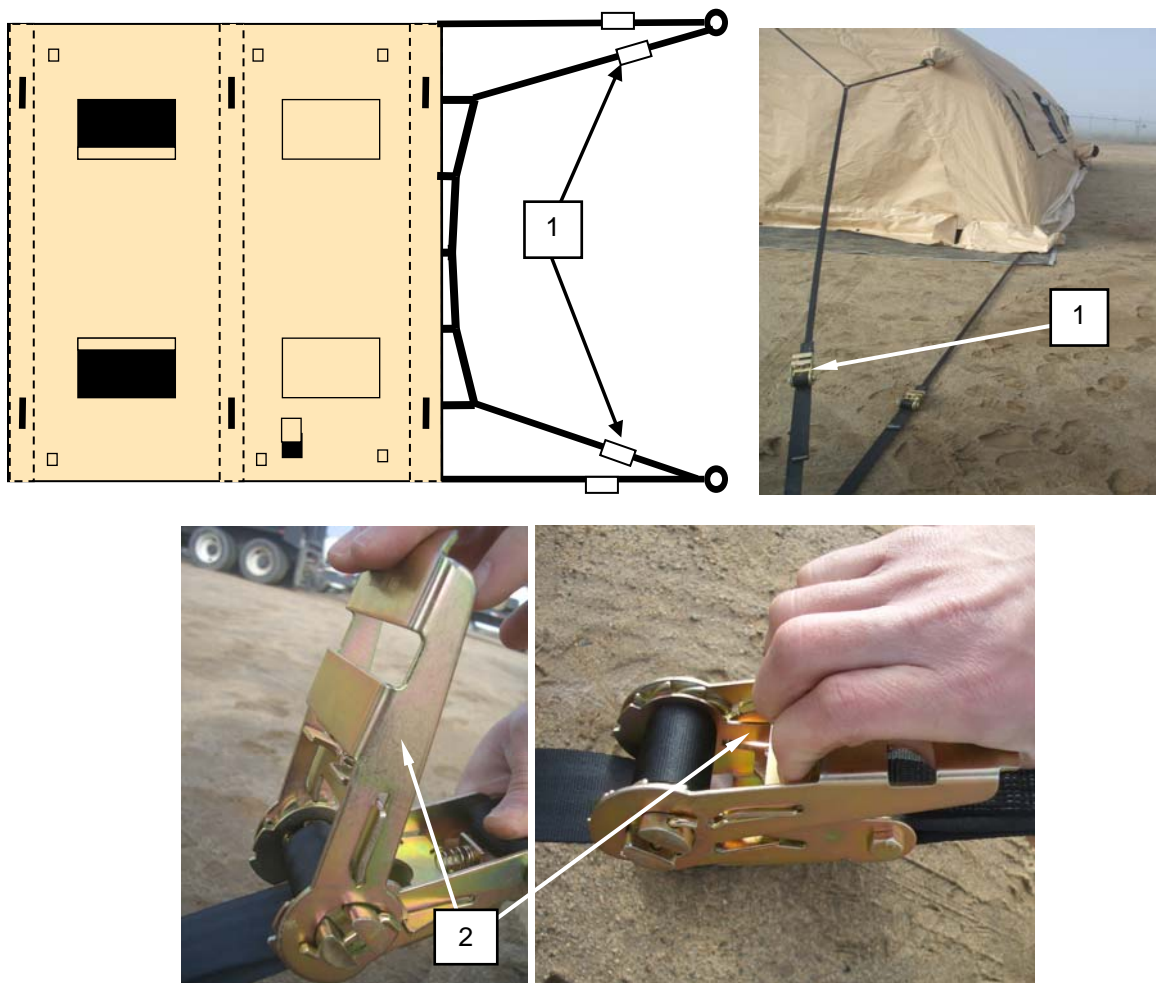


Figure 3. Slacken Upper External Bracing Straps.

REPLACE - CONTINUED

5. Slacken the lower tensioning ratchet (Figure 4, Item 1) on the lower ratchet external bracing strap by pulling in the tension release handle of the tensioning ratchets (Figure 4, Item 2).

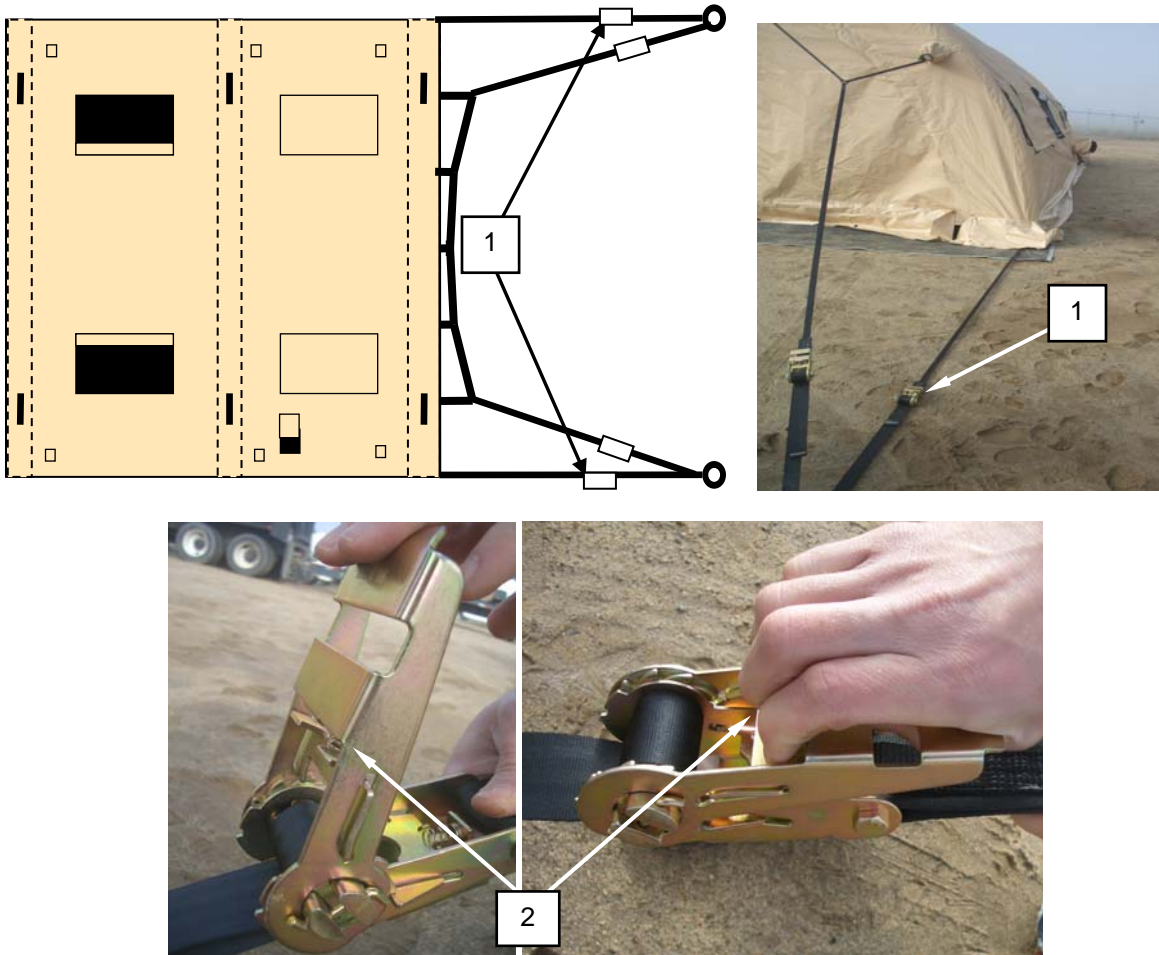


Figure 4. Slacken Lower External Bracing Straps.

REPLACE - CONTINUED

6. With the external tension relaxed, at the vestibule end of the shelter, untie the external tensioning snout securing ties (Figure 5, Item 1).

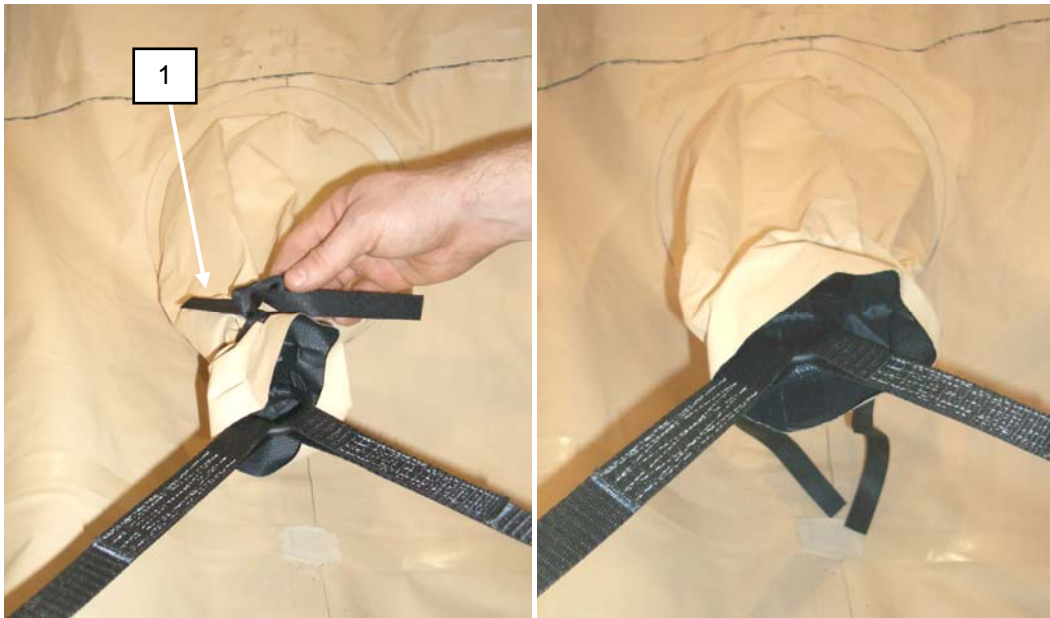
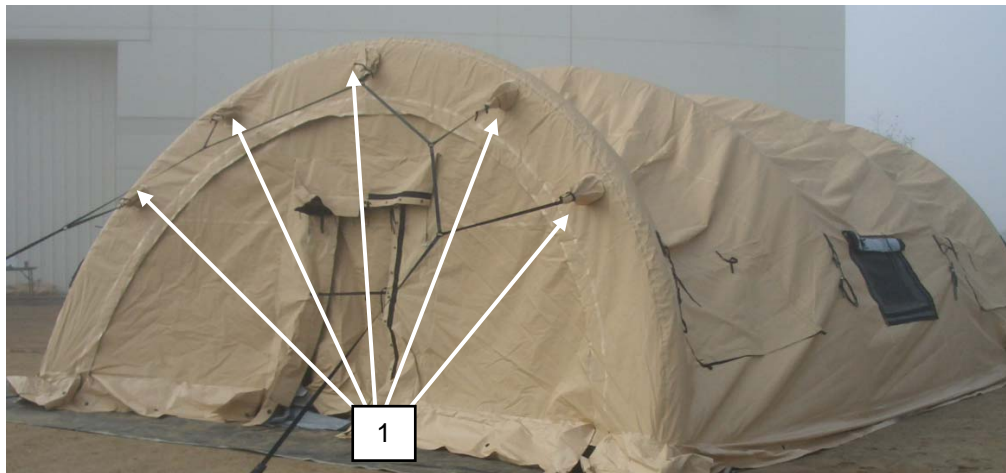


Figure 5. Untie External Tensioning Snout Securing Ties.

REPLACE - CONTINUED

7. At the vestibule end of the shelter, at the external tensioning snouts, disconnect the fixed external bracing strap carabiners (Figure 6, Item 1) from the airbeam attachment straps (Figure 6, Item 2).

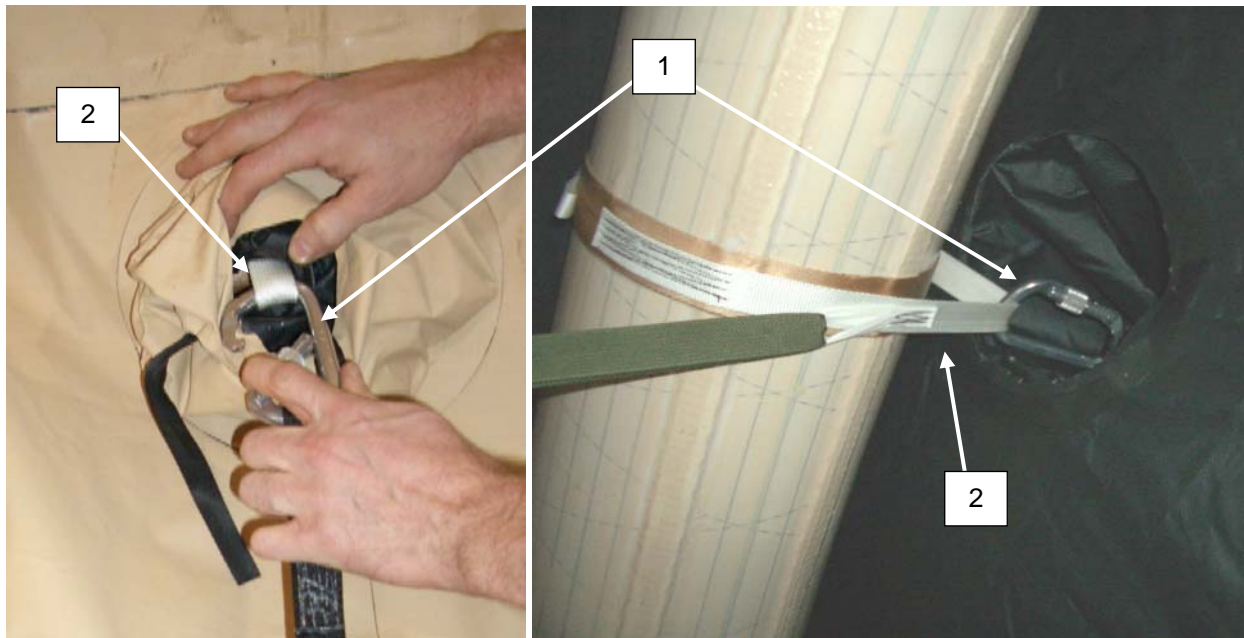


Figure 6. Disconnect External Tensioning Carabiners.

8. At both left and right lower corners of the vestibule end of the shelter, disconnect the fixed bracing strap external tensioning carabiners (Figure 7, Item 1) from the loops (Figure 7, Item 2) on the shelter outer main skin.

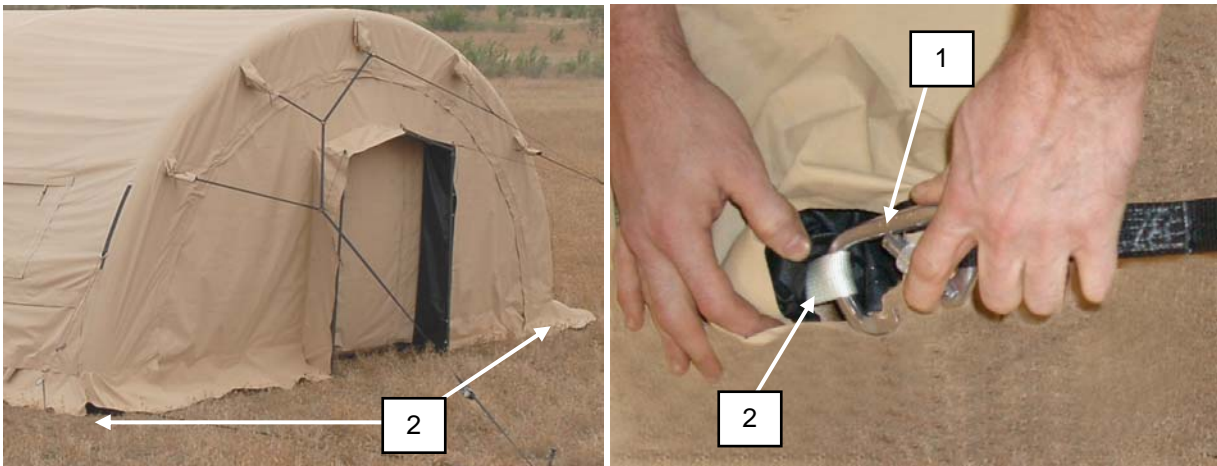


Figure 7. Disconnect External Tensioning Carabiners.

REPLACE - CONTINUED

NOTE

Use the stake removal tool to lift the 36 inch tent pins from the ground.

9. At the vestibule end of the tent, remove both of the 36 inch tent pins (Figure 8, Item 1) with the stake removal tool (Figure 8, Item 2) and suitable lifting equipment.

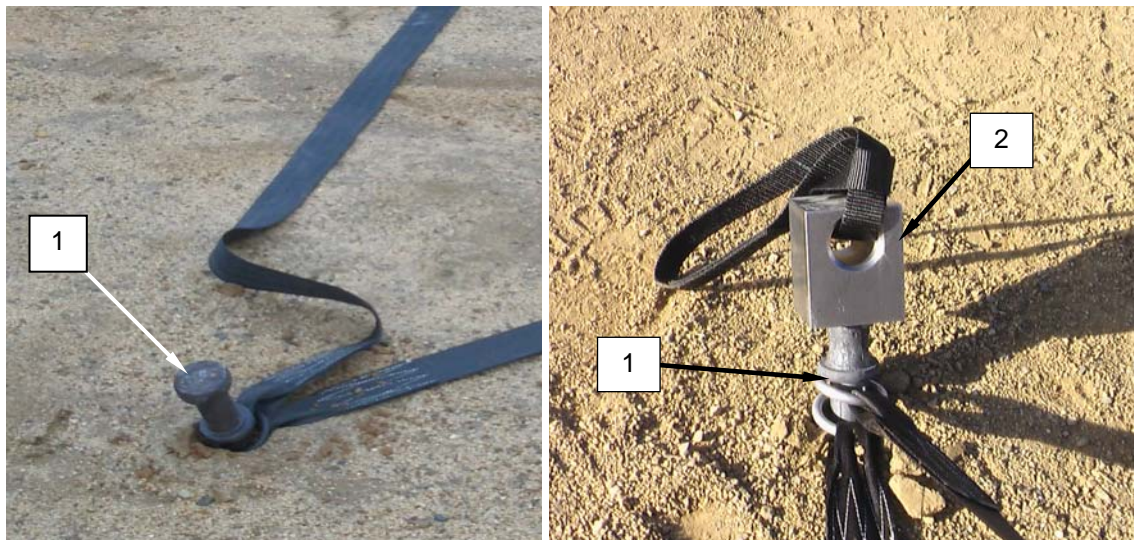
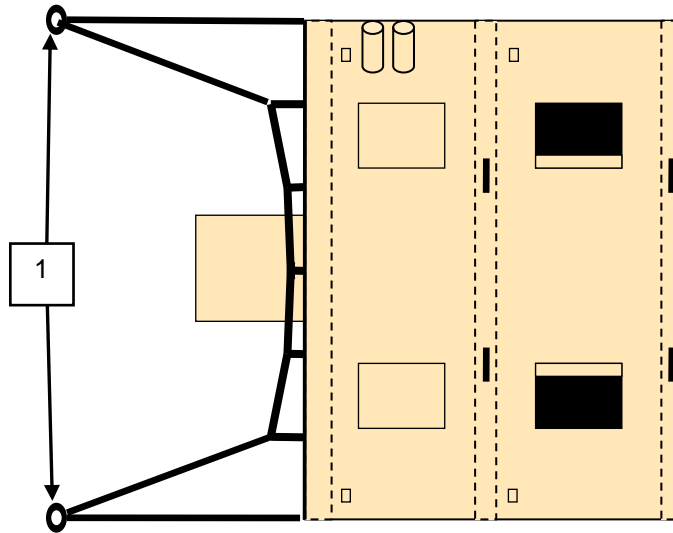


Figure 8. Stake Removal Tool.

10. Remove the fixed external bracing strap rings from the 36 inch tent pins (Figure 8). Ensure that the location of the 36 inch tent pin holes is noted for reinstallation.
11. Set aside the removed fixed external bracing assembly.

REPLACE - CONTINUED

12. At the lower corners of the vestibule end of the shelter (Figure 9, Item 1), attach the fixed external bracing carabiners (Figure 9, Item 2) to the lower corner loops on the shelter outer main skin (Figure 9, Item 3).

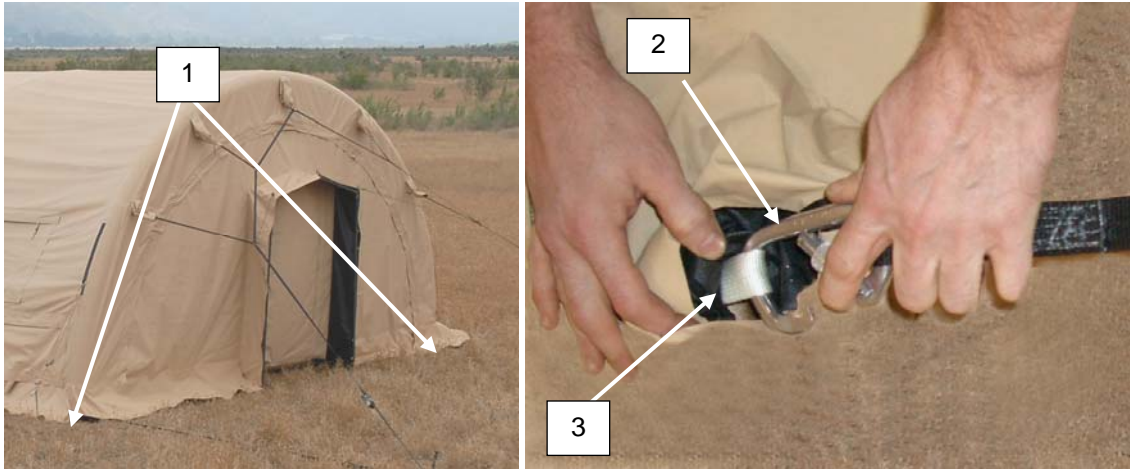


Figure 9. Connect Lower Corner Fixed Bracing Carabiners.

13. At the vestibule end of the shelter, pass the replacement fixed external bracing strap carabiners (Figure 10, Item 1) through the snouts and attach the carabiners to the airbeam securing strap loops (Figure 10, Item 2).

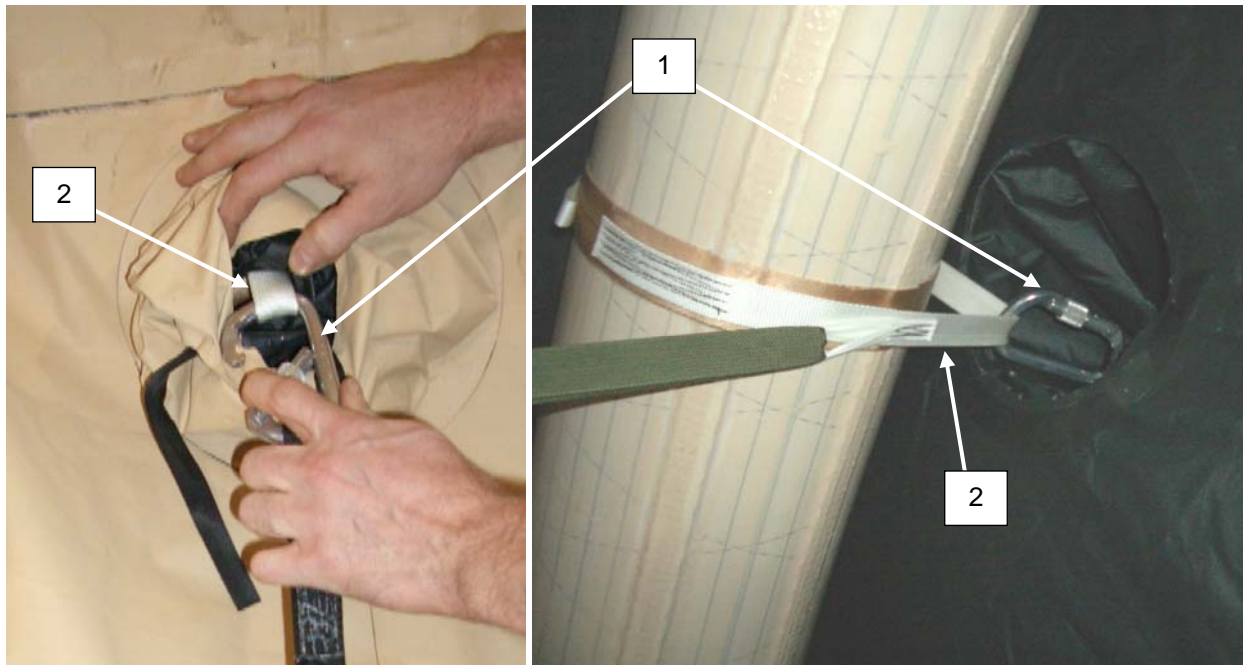


Figure 10. Connect External Tensioning Carabiners.

REPLACE - CONTINUED

14. At the tent exterior, using the attached external tensioning snout securing ties, wrap and tie the snouts with the securing ties (Figure 11, Item 1).



Figure 11. Wrap and Tie External Tensioning Snouts.

15. From the vestibule end, extend the replacement fixed external bracing strap pair (Figure 12, Item 1) with the bottom corner bracing strap (Figure 12, Item 1) laid out flat and parallel to the long side of the tent. If possible, align the strap ring with the hole used previously for the 36 inch tent pin.

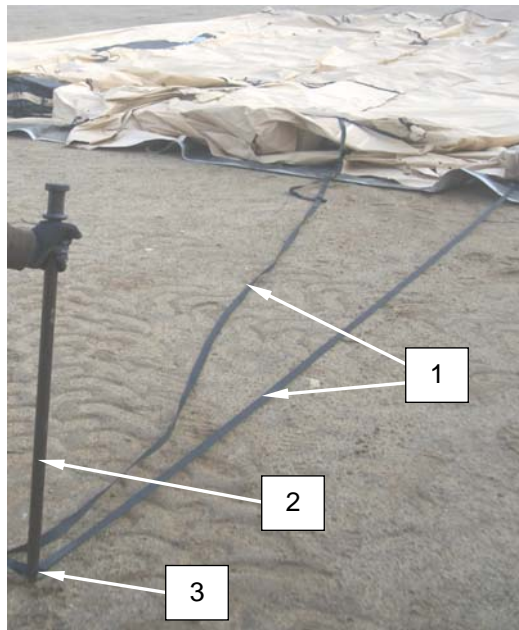


Figure 12. Attach External Bracing Straps to Tent Pin.

16. Insert the 36-inch tent pin (Figure 12, Item 2) through the end ring (Figure 12, Item 3).

ATTACH EXTERNAL BRACING - CONTINUED

17. Angle the 36-inch tent pin (Figure 13, Item 1) outward, and drive the tent pin into the ground with a sledge hammer until the lower collar (Figure 13, Item 2) is at ground level.

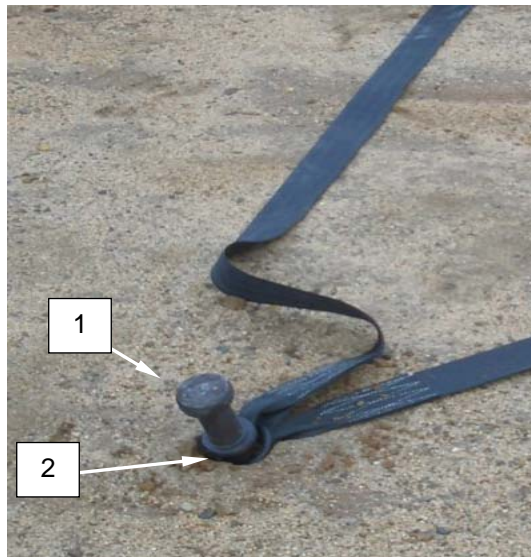


Figure 13. Drive 36-Inch Tent Pin.

REPLACE - CONTINUED

18. Tension both of the lower ratchet external bracing straps by removing the slack by grasping the bail handle of the lower tensioning ratchet (Figure 14, Item 1) and pulling up and backwards in a ratcheting motion until tight.

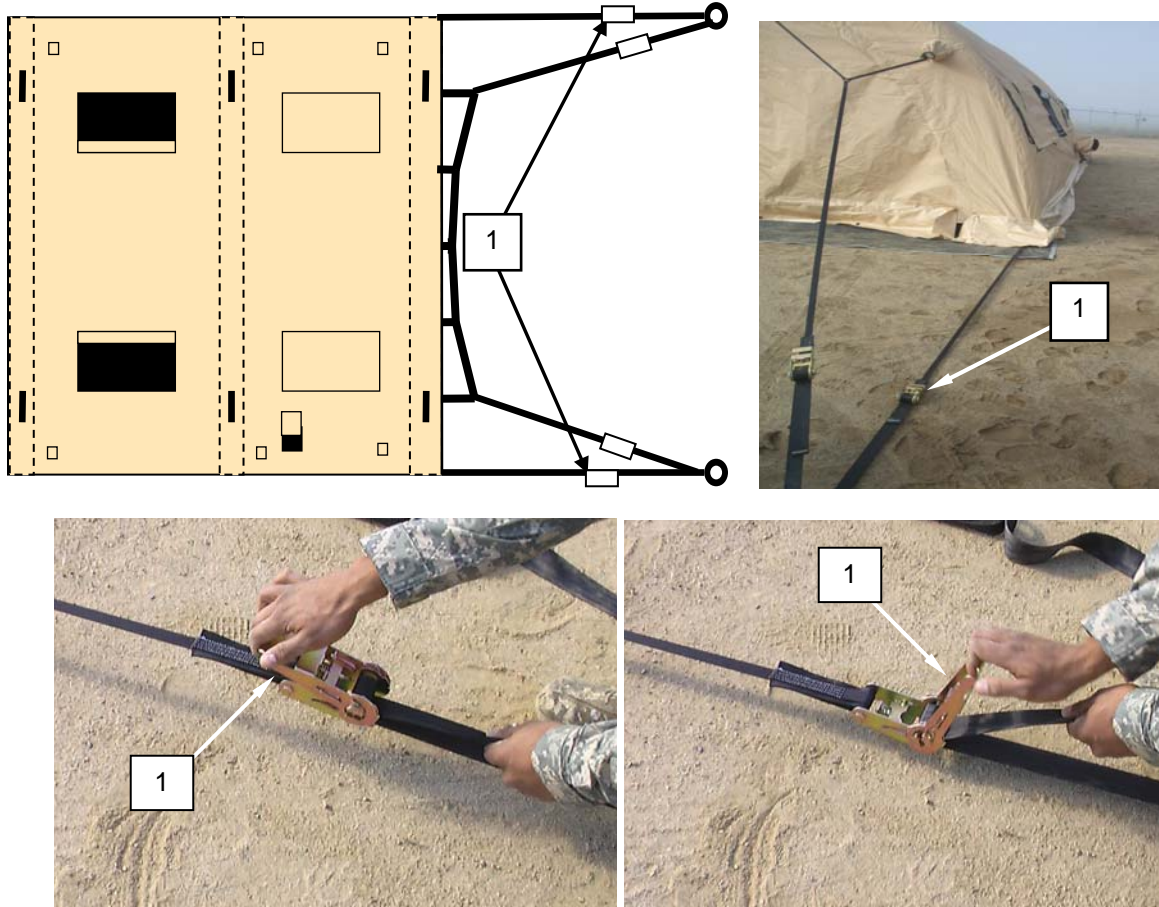


Figure 14. Tension Lower Ratchet External Bracing Straps.

REPLACE - CONTINUED

19. At the upper ratchet external bracing straps (Figure 15, Item 1) grasp the strap end extending from the tensioning ratchet (Figure 15, Item 2), and pull out the slack in both upper ratchet external bracing straps until the straps are hand tight.

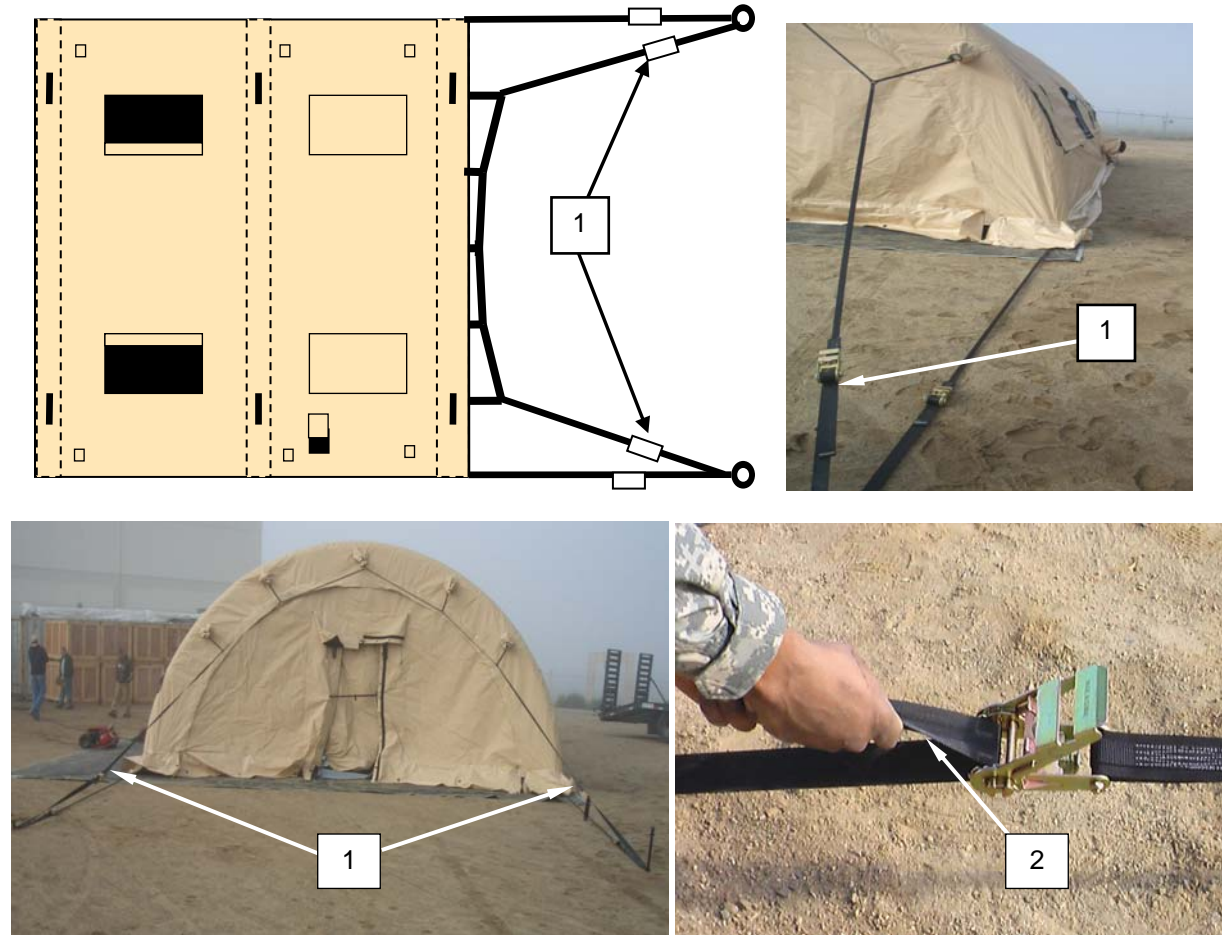


Figure 15. Removing Slack from Upper Ratchet External Bracing Straps.

REPLACE - CONTINUED

NOTE

The tent is tensioned and aligned by alternately tightening the tensioning ratchets on the upper ratchet external bracing straps, using the bracing strap connections at the snouts top of the tent for visual alignment and centering, as shown below, properly aligned and centered (Figure 16, Item 1).



Figure 16. External Bracing Tensioned.

20. At either of the upper ratchet external bracing strap tensioning ratchets, grasp the bail handle (Figure 17, Item 1), and pull up and back in a ratcheting motion (Figure 17, Item 2) to tighten the strap.



Figure 17. Tighten Upper Ratchet External Bracing Strap with Tensioning Ratchet.

21. Alternately tighten the left and right upper tensioning ratchets until the tent is evenly aligned and centered as shown above (Figure 16, Item 1), and the straps are tight.

REPLACE - CONTINUED

22. At both of the lower ratchet external bracing straps (Figure 18, Item 1), re-tighten the tensioning ratchets (Figure 18, Item 2), removing any slack created when the upper ratchet external bracing straps were tensioned.

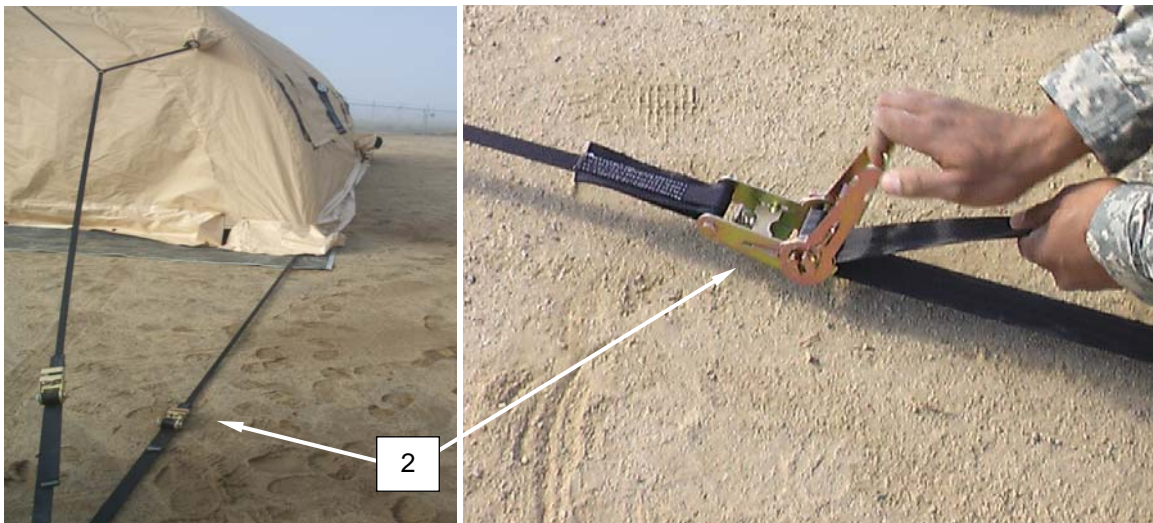
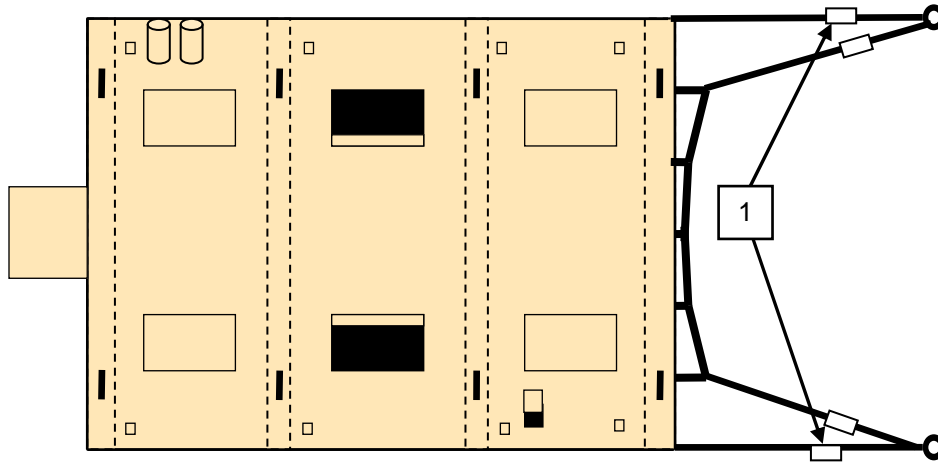


Figure 18. Tighten Lower Ratchet External Bracing Straps.

23. Restore any equipment affected by this replacement procedure.
24. Restore Power and Lighting IAW WP 0006.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
RATCHET SNOW STRAP ASSEMBLY
SERVICE, REPLACE

INITIAL SETUP:

Materials/Parts

Detergent, General Purpose (WP 0065, Item 7)
 Wiping Rags (WP 0065, Item 12)

Personnel Required

Non-MOS Specific (2)

Equipment Condition

Shelter either deployed or struck

SERVICE

Clean the component as needed to remove dirt or other debris. Use warm, soapy water and a rag. Dry the component completely.

REPLACE

Remove Ratchet Snow Strap

1. Ensure that the area is clear and free of equipment prior to removing the ratchet snow straps (Figure 1, Item 1).

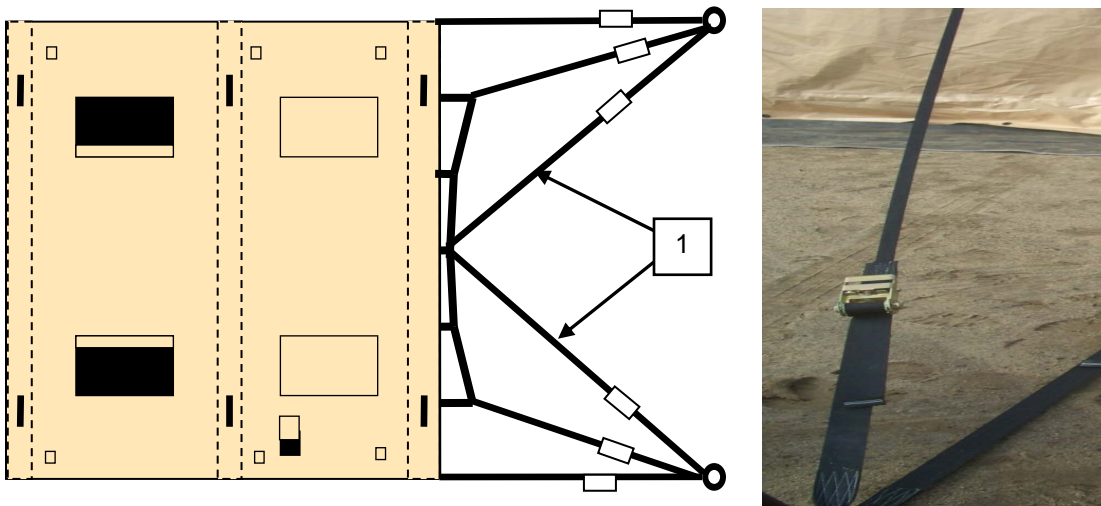


Figure 1. Upper Ratchet Snow Strap Assembly.

REPLACE - CONTINUED

WARNING



Bracing straps under tension can release with great force and pose a pinch hazard when slackened at the tensioning ratchets. Keep fingers and clothing clear of tensioning ratchets when slacking bracing straps. Failure to do so could result in injury to personnel.

2. Slacken the snow straps (Figure 2, Item 1) by pulling in the tension release handles of the snow strap tensioning ratchets (Figure 2, Item 2).

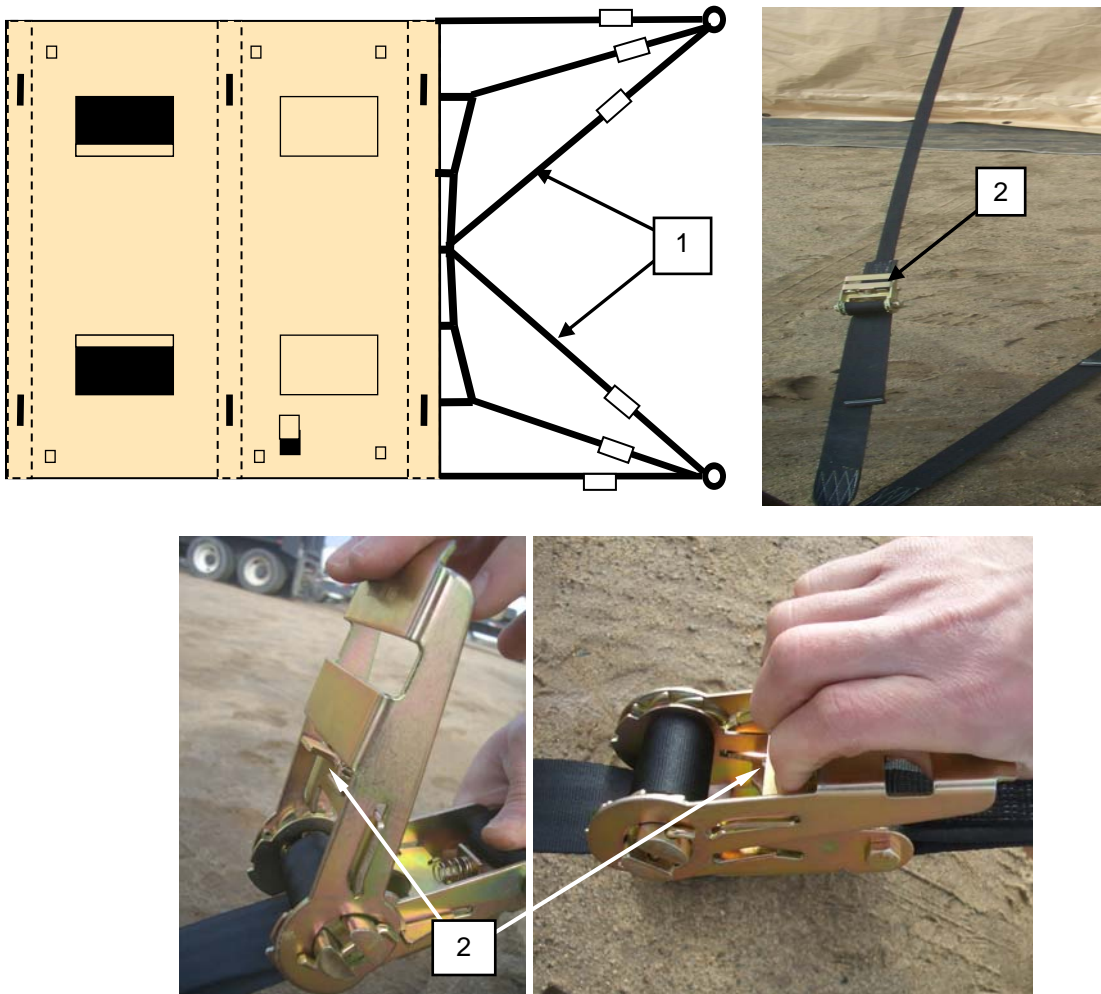


Figure 2. Slacken Snow Straps.

REPLACE - CONTINUED

NOTE

A step aid may be needed to reach the top of the shelter

3. At the top of the external tensioning snout, disconnect the snow strap carabineer (Figure 3, Item 1) from the airbeam attachment strap (Figure 3, Item 2).



Figure 3. Releasing the Carabineers from the External Tensioning Snout Securing Loop.

REPLACE - CONTINUED

4. Remove the ratchet snow strap loops from the 36 inch tent pins (Figure 4, Item 1).

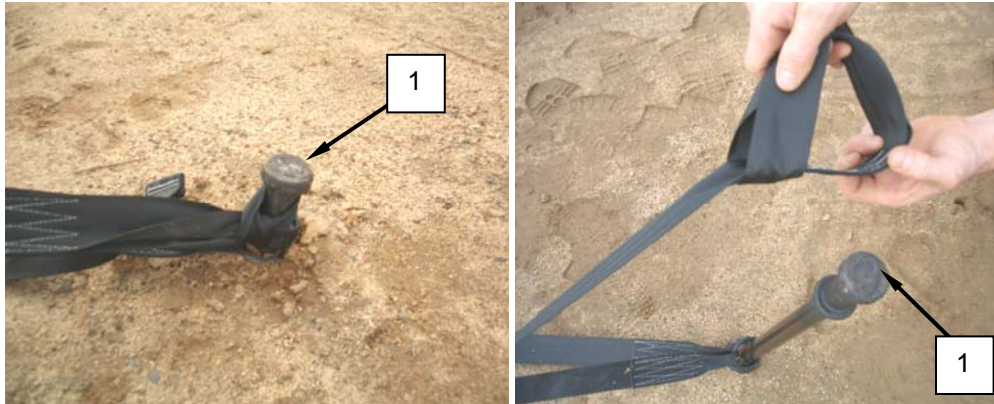


Figure 4. Remove Snow Strap Loops from 36 Inch Tent Pins.

END OF TASK

REPLACE - CONTINUED**Install Ratchet Snow Strap****NOTE**

A step aid may be needed to reach the top of the shelter.

1. Pass the ratchet snow strap carabineer through the top external tensioning snout (Figure 5, Item 1), and attach the carabineer to the airbeam attachment strap (Figure 5, Item 2).

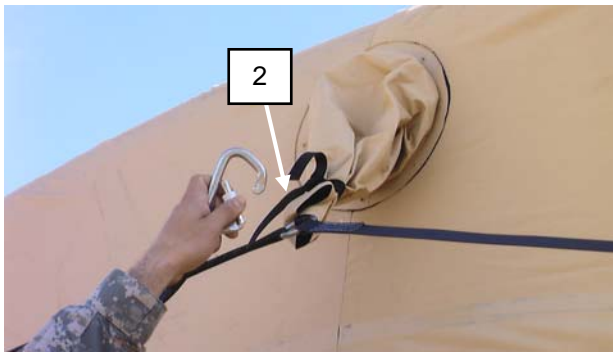
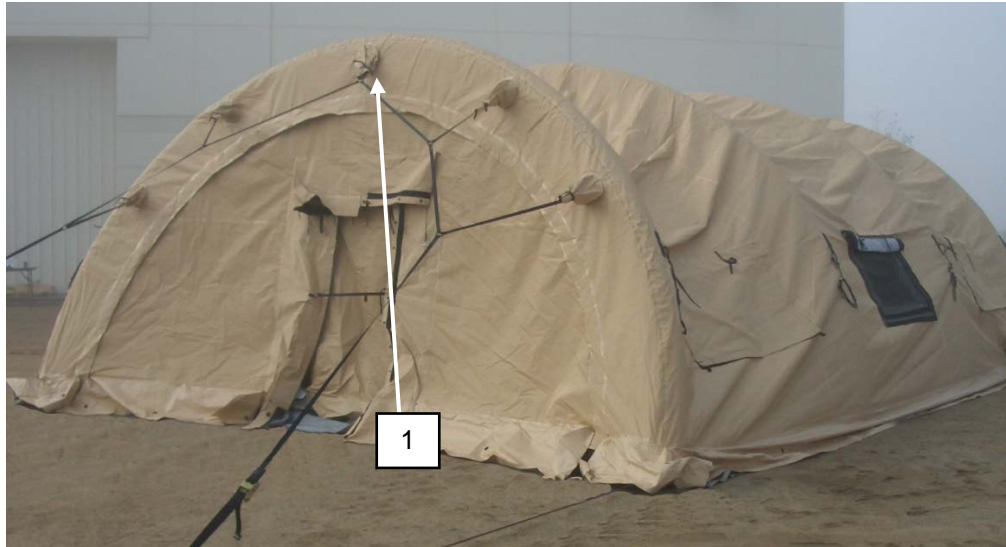


Figure 5. Securing the Ratchet Snow Strap Carabineer.

REPLACE - CONTINUED

2. With the loop end of one of the ratchet snow straps (Figure 6, Item 1), pass the strap through the loop forming a girth hitch, and slip the girth hitch over the top collar of the 36 inch tent pin (Figure 6, Item 2).

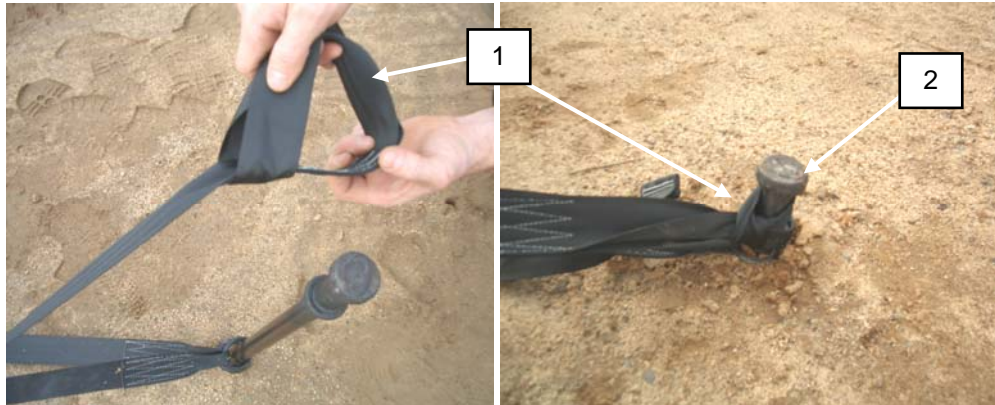


Figure 6. Attach Snow Strap Loops to 36 Inch Tent Pins.

3. At the tensioning ratchet of one of the ratchet snow strap (Figure 7, Item 1) grasp the strap end extending from the tensioning ratchet (Figure 7, Item 2), and pull out the slack in the upper ratchet snow strap until the snow strap is hand tight.

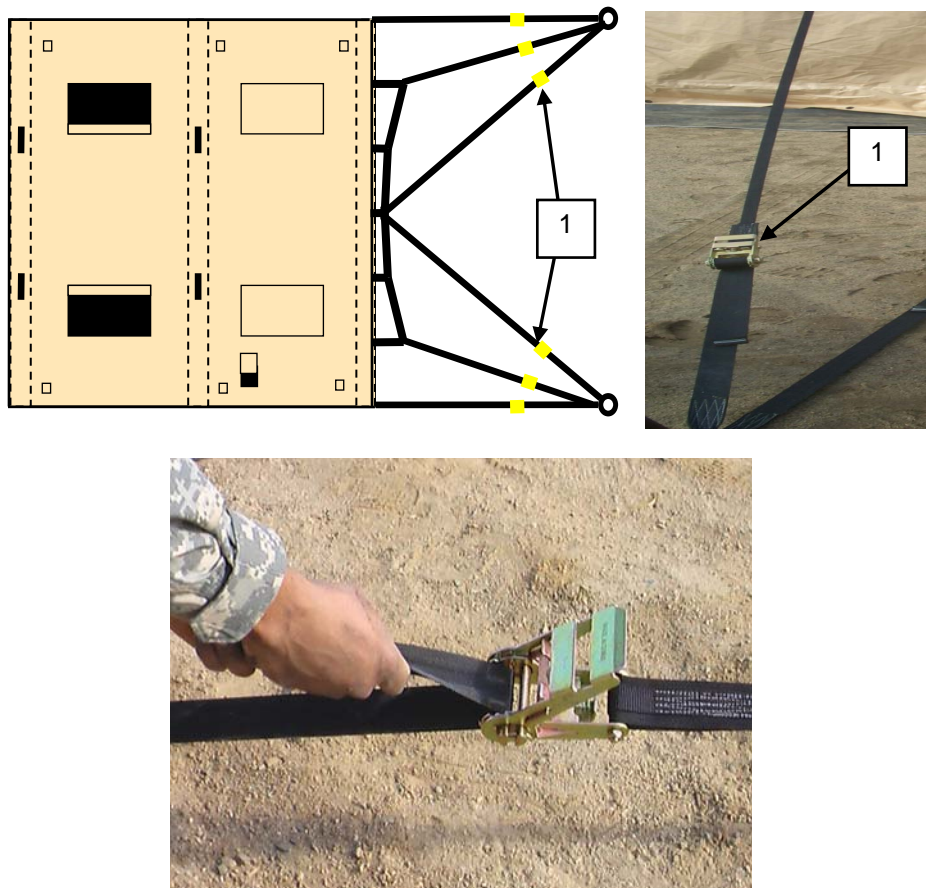


Figure 7. Removing Slack from Upper Ratchet Snow Straps.

REPLACE - CONTINUED**NOTE**

The snow strap is tensioned and aligned by alternately tightening the left and right snow strap tensioning ratchets, using the snout at the top of the shelter for visual alignment and centering, as shown below, properly aligned and centered (Figure 8, Item 1).



Figure 8. External Bracing Tensioned.

4. At either of the upper ratchet snow strap tensioning ratchets, grasp the bail handle (Figure 9, Item 1), and pull up and back in a ratcheting motion to tighten the snow strap.



Figure 9. Tighten Upper Ratchet Snow Strap with Tensioning Ratchet.

5. Alternately tighten the left and right snow strap tensioning ratchets until the snow straps are evenly aligned and centered as shown above (Figure 8, Item 1), and the straps are tight.
6. Repeat steps 1 through 5 if additional ratchet snow straps are to be installed.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE

AIR COMPRESSOR
SERVICE

INITIAL SETUP:

Personnel Required

Non-MOS Specific (1)

Equipment Condition

Shelter either deployed or struck

NOTE

The air compressor is provided with non-Force Provider standalone TEMPER, Air-Supported shelter TYPE XLI through TYPE XLVII (Type 41 through 47).

SERVICE

Check Safety Valve

WARNING



Ensure that the air compressor safety valve works properly, or over pressurization may result. Failure to do so may result in an air tank rupture or an explosion, which can cause death or serious injury to personnel.

1. Before starting the air compressor, pull the ring (Figure 1, Item 1) on the safety valve outwards and release to make sure that the safety valve operates freely. If the ring and shaft of the safety valve does not retract to its original position, is stuck, or does not operate smoothly, replace the safety valve IAW the section in this Work Package entitled 'Replace the Safety Valve'.



Figure 1. Air Compressor Safety Valve Ring.

END OF TASK

SERVICE - CONTINUED

Drain Condensate from Compressed Air Tank

WARNING



Water will condense in the air tank. Ensure that the air tank is drained regularly. Failure to do so may result in a weakened air tank from tank corrosion and can result in an air tank rupture or an explosion, which can cause death or serious injury to personnel.

1. Set the air compressor ON/AUTO/OFF lever (Figure 2, Item 1) to the OFF position.

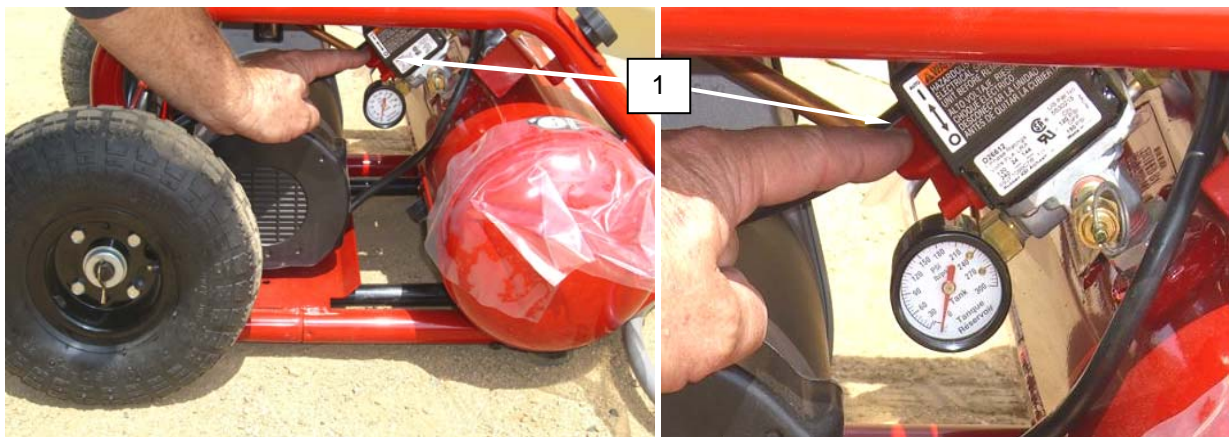


Figure 2. Air Compressor ON/AUTO/OFF Lever.

2. Pull the regulator knob (Figure 3, Item 1) out, and turn counterclockwise to set the outlet pressure (Figure 3, Item 2) to zero.



Figure 3. Set Regulator Outlet Pressure to Zero.

SERVICE - CONTINUED

3. Disconnect any tools or accessories from the air compressor quick disconnect (QD) fittings (Figure 4, Item 1).



Figure 4. Disconnect Tools or Accessories from Air Compressor QD Fittings.

4. Pull ring on safety valve (Figure 5, Item 1) allowing air to bleed from the tank until tank pressure (Figure 5, Item 2) is approximately 20 psi. Release safety valve ring.

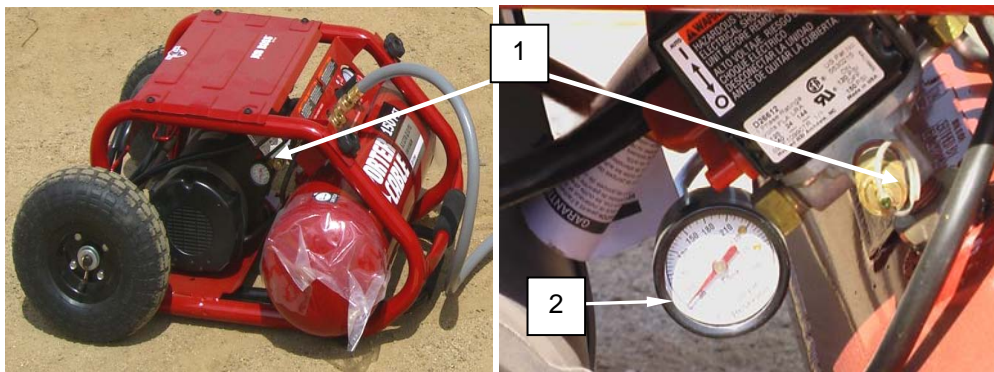


Figure 5. Air Compressor Safety Valve Ring.

5. On the bottom of the air compressor, drain water from the air tank by opening the air tank drain valve (Figure 6, Item 1) counter-clockwise.

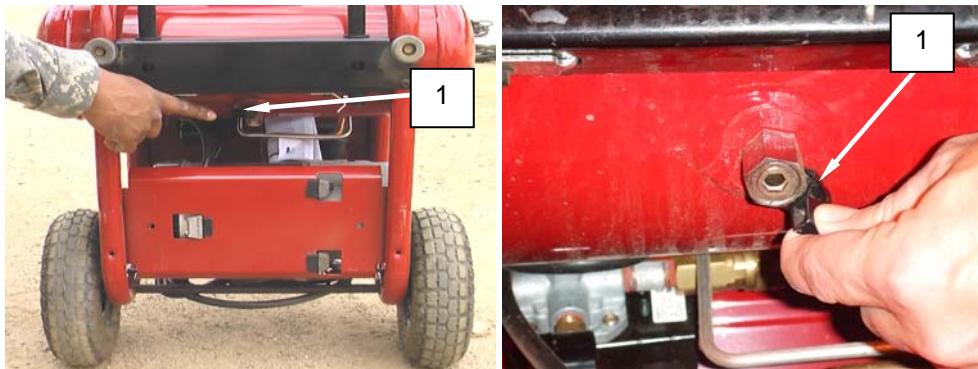


Figure 6. Air Tank Drain Valve.

SERVICE - CONTINUED

6. Set the air compressor ON/AUTO/OFF lever (Figure 7, Item 1) to the "ON/AUTO" (Up) position.

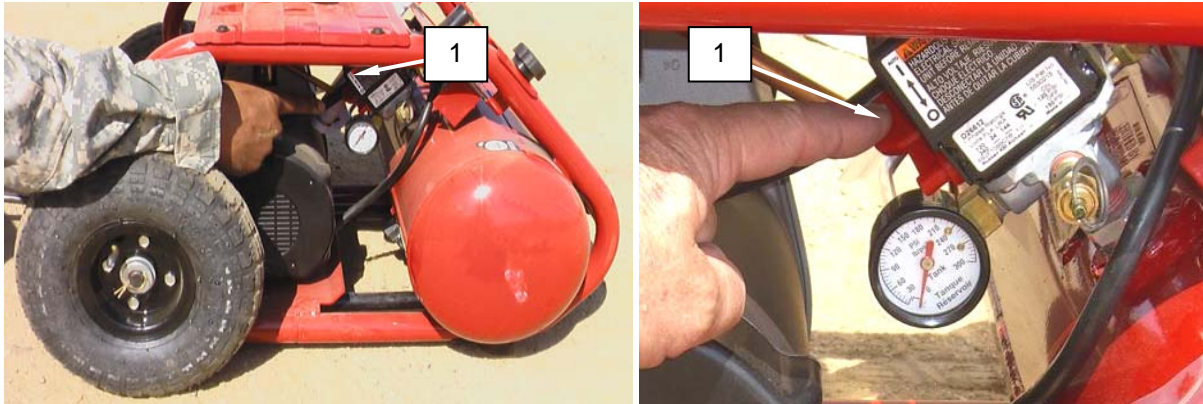


Figure 7. Air Compressor On/Auto/Off Lever.

7. Verify that the air compressor starts.
8. Make sure that the drain valve (Figure 8, Item 1) is open, and monitor the air tank pressure gauge (Figure 5, Item 2) to ensure that there is minimal air pressure build-up in the tank.
9. Run the compressor for 5 minutes to clear any condensation or debris from the compressor or lines.
10. After 5 minutes, close the drain valve (Figure 8, Item 1). The air receiver will fill to "cut-out" pressure (120 PSIG), and the air compressor motor will automatically stop.

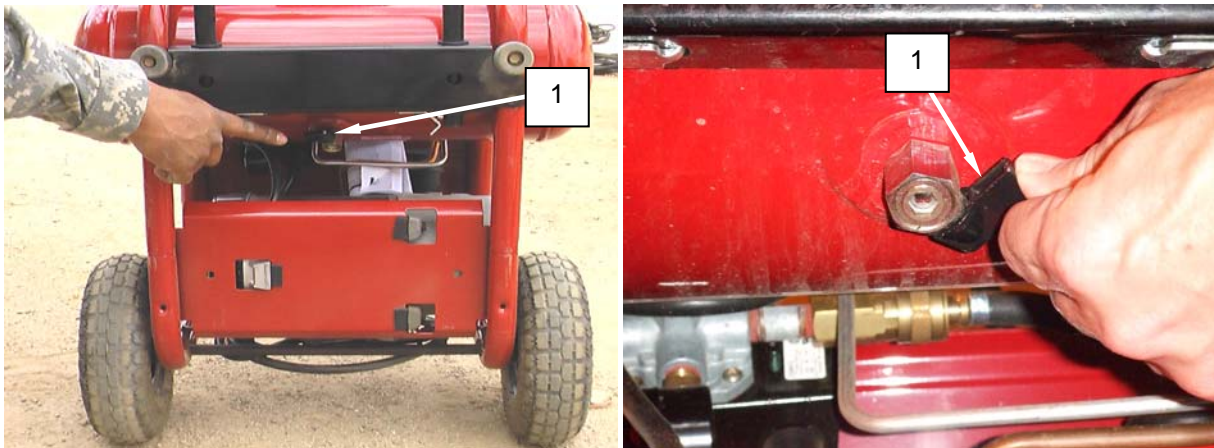


Figure 8. Open Air Tank Drain Valve.

END OF TASK

SERVICE - CONTINUED**Service Air Filter****WARNING**

Air compressor heads are exposed when air filter cover is removed and have hot surfaces. Allow the air compressor to cool for 15 minutes prior to servicing. Failure to do so may cause burn injury to personnel.

NOTE

Keep the air filter clean at all times. Do not operate the air compressor with the air filter removed. A dirty air filter will not allow the compressor pump to operate at full capacity.

Before you use the air compressor pump, check the air filter to be sure it is clean and in place. If it is dirty, replace it with a new filter.

1. Twist and remove the air filter cover (Figure 9, Item 1) located behind the control panel on the right side of the air compressor.

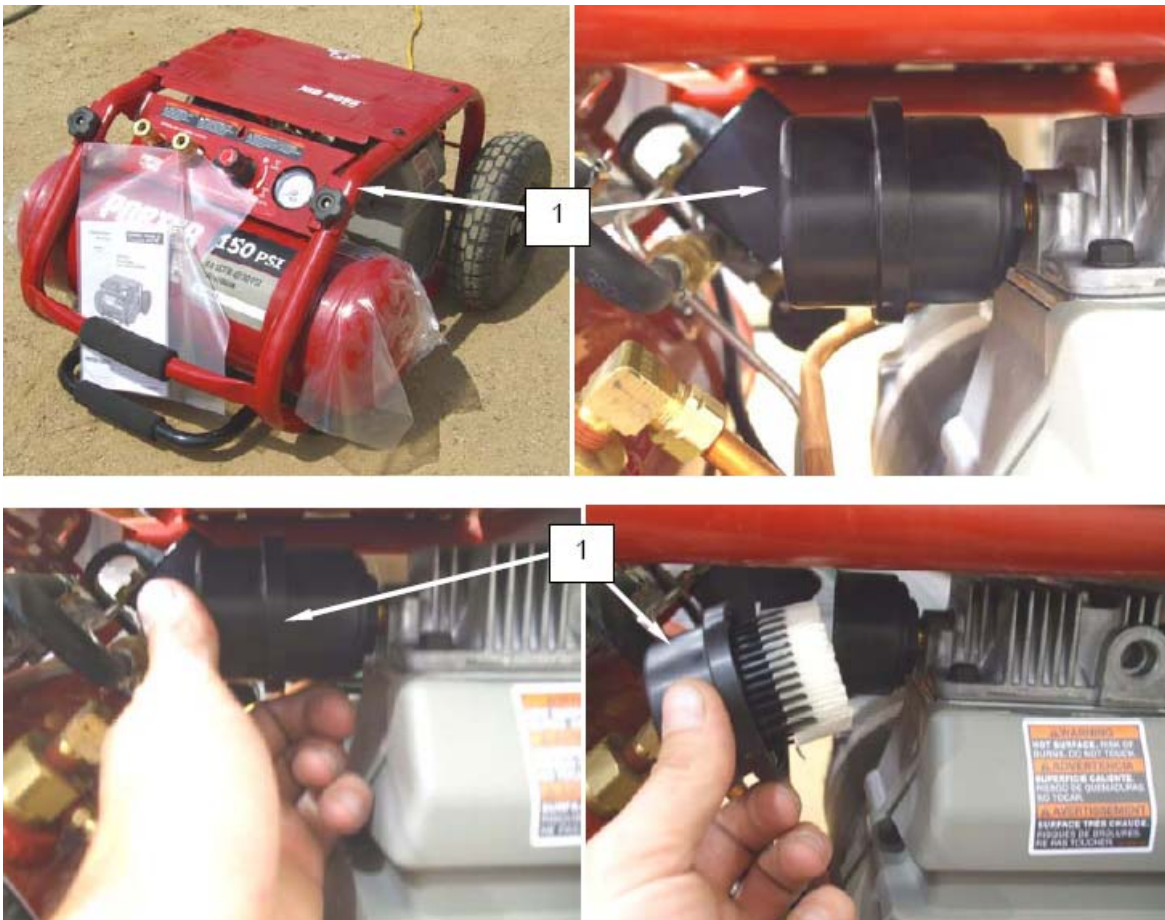


Figure 9. Air Filter Cover.

REPAIR - CONTINUED

2. Remove the air filter (Figure 10, Item 1) from air filter cover (Figure 10, Item 2).

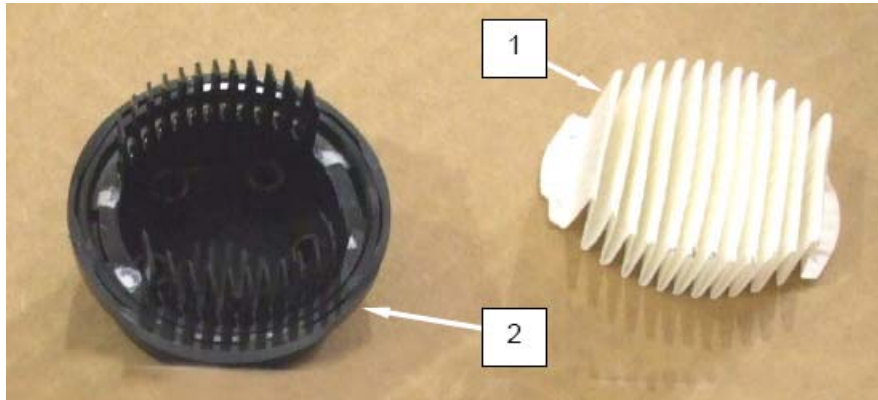


Figure 10. Remove Air Filter from Air Filter Cover.

3. Place new air filter into air filter cover (Figure 11, Item 1).



Figure 11. Replace Air Filter in Air Filter Cover.

4. Replace air filter cover (Figure 12, Item 1), and twist to lock into place.

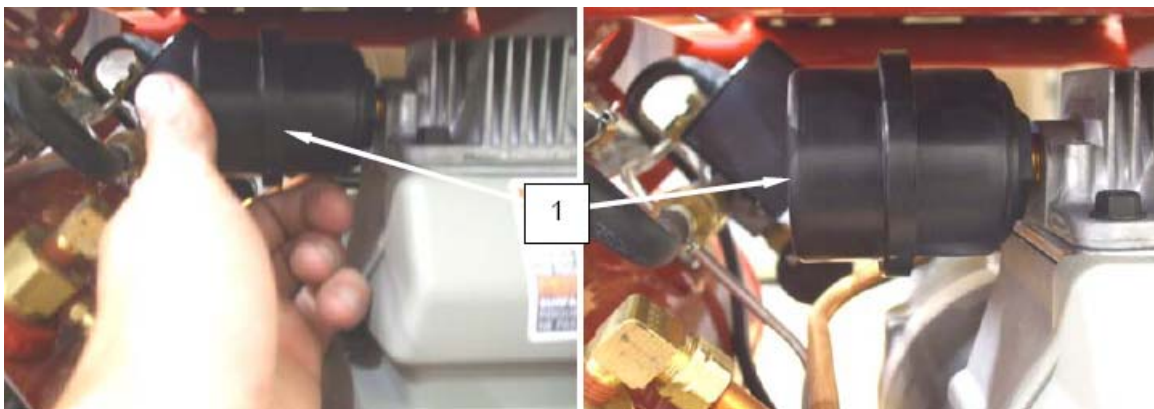


Figure 12. Replace Air Filter Cover.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE**AIRBEAM PURGE VACUUM
SERVICE, REPAIR**

INITIAL SETUP:**Materials/Parts**

Detergent, General Purpose (WP 0064, Item 7)
Rags, Wiping, (WP 0064, Item 12)
Tape, Duct (WP 0064, Item 16)

Personnel Required

Non-MOS Specific (1)

Equipment Condition

Shelter deployed or struck

SERVICE

1. Open the vacuum using the plastic clips (Figure 1, Item 1) on the sides of the vacuum.



Figure 1. Airbeam Purge Vacuum.

SERVICE - CONTINUED

2. Empty any dirt or debris from the vacuum container (Figure 2, Item 1).
3. Check the filter (Figure 2, Item 2). Clean or replace the filter as required.

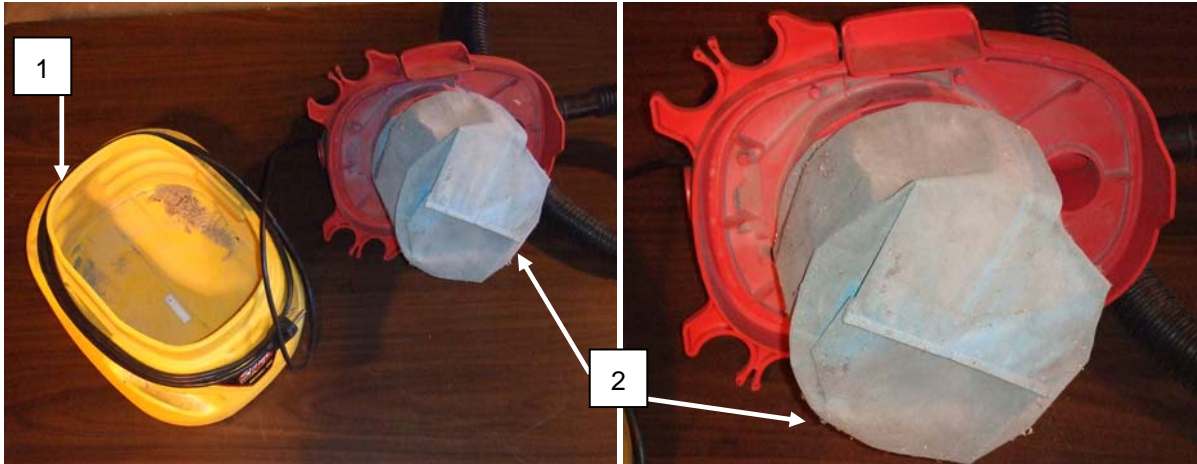


Figure 2. Open Vacuum and Check Filter.

4. Check the filter (Figure 2, Item 2). Clean or replace the filter as required.
5. Close the vacuum using the plastic clips.

END OF TASK**REPAIR****Repair Airbeam Purge Vacuum Hose**

With cloth backed adhesive tape (Figure 3), wrap the vacuum hose 3 to 4 times and secure the tape.

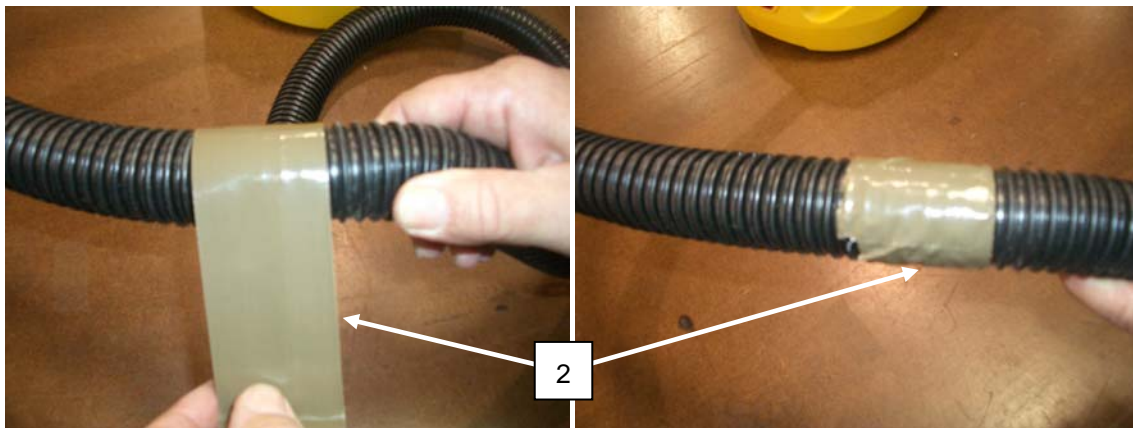


Figure 3. Repair Airbeam Purge Vacuum Hose.

END OF TASK**END OF WORK PACKAGE**

CHAPTER 7

FIELD MAINTENANCE INSTRUCTIONS
FOR
TEMPER, AIR-SUPPORTED

FIELD MAINTENANCE
AIRBEAM BALL VALVE
REPLACE

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanics (WP 0065, Item 4)

Personnel Required

Quartermaster and Chemical Equipment Repairer, 63 J (1)

Materials/Parts

Detergent, General Purpose (WP 0064, Item 7)
Tape, Thread Sealing (WP 0064, Item 17)

References

WP 0024

Equipment Condition

Shelter either deployed or struck

REPLACE**Remove Airbeam Ball Valve**

1. Deflate the airbeam that the airbeam ball valve to be removed is attached to IAW WP 0024.

NOTE

Ball Valves are open when the valve handle (Figure 1, Item 1) is in-line with the valve body, and closed when the valve handle (Figure 1, Item 2) is across the valve body.

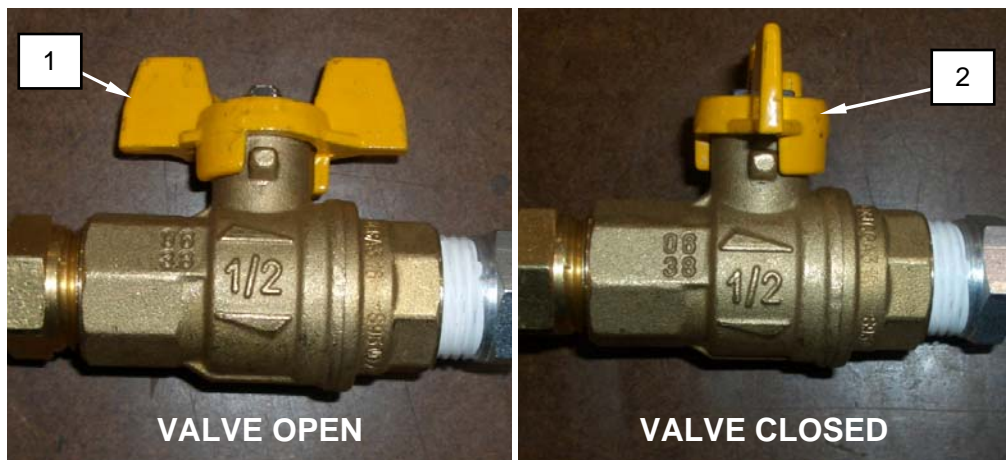


Figure 1. Ball Valve Handle Positions.

2. Rotate the airbeam ball valve handle to the closed position (Figure 1).

REPLACE - CONTINUED

3. Remove the quick disconnect fitting (Figure 2, Item 1) from the airbeam ball valve (Figure 2, Item 2).

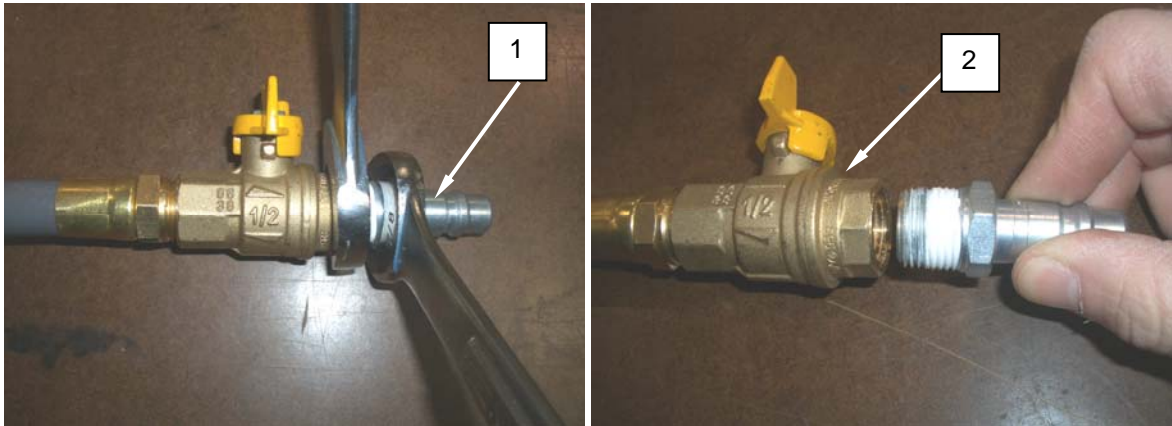


Figure 2. Remove Quick Disconnect Fitting from Airbeam Ball Valve.

4. Remove any debris or sealing tape residue from the threads (Figure 3) of the quick disconnect fitting. If the quick disconnect fitting is serviceable, set aside for reassembly.



Figure 3. Remove Debris from Quick Disconnect Fitting Threads.

5. Remove the airbeam ball valve (Figure 4, Item 1) from the airbeam inflation hose connection fitting (Figure 4, Item 2).

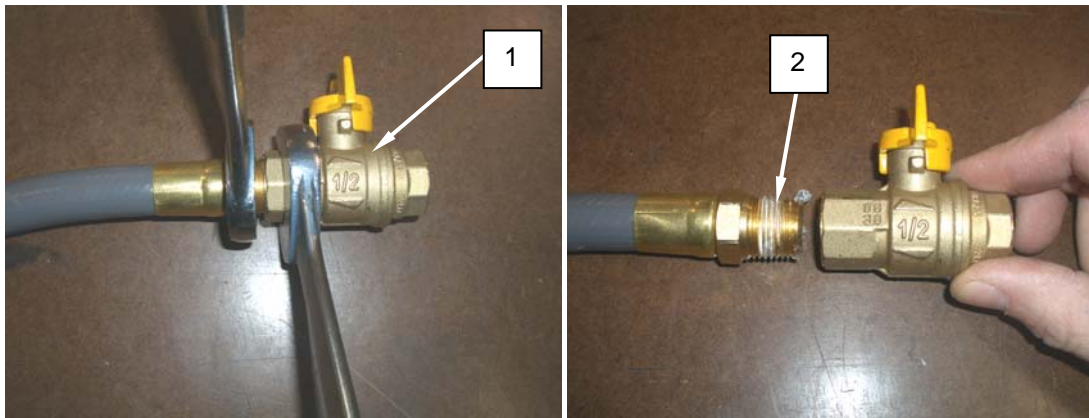


Figure 4. Remove Airbeam Ball Valve from Inflation Hose Fitting.

REPLACE - CONTINUED

6. Remove any debris or sealing tape residue from the threads (Figure 5) of the airbeam inflation hose assembly fitting.



Figure 5. Remove Debris from Airbeam Inflation Hose Fitting Threads.

END OF TASK

REPLACE - CONTINUED**Install Replacement Airbeam Ball Valve****CAUTION**

When using thread sealant tape, ensure that the end of the tape does not extend past the end of the threads into the open area inside the fitting. Failure to do so could cause pieces of the tape to get caught in the system and damage the equipment.

1. With thread sealant tape, wrap the threads (Figure 6, Item 1) of the airbeam inflation hose fitting from the hose outwards, applying 2 or 3 turns of the thread sealant tape to the fitting.



Figure 6. Wrap Airbeam Inflation Hose Fitting Threads with Thread Sealant Tape.

2. Install the replacement airbeam ball valve (Figure 7, Item 1) into the airbeam inflation hose connection fitting (Figure 7, Item 2) hand tight. With wrenches, tighten the airbeam inflation hose fitting.

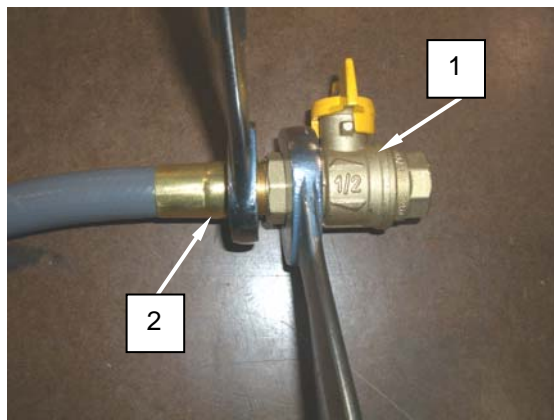


Figure 7. Install Replacement Airbeam Ball Valve.

REPLACE - CONTINUED

CAUTION

When using thread sealant tape, ensure that the end of the tape does not extend past the end of the threads into the open area inside the fitting. Failure to do so could cause pieces of the tape to get caught in the system and damage the equipment.

3. With thread sealant tape, wrap the threads (Figure 8) of the airbeam quick disconnect fitting from the quick disconnect end outwards, applying 2 or 3 turns of the thread sealant tape to the fitting.

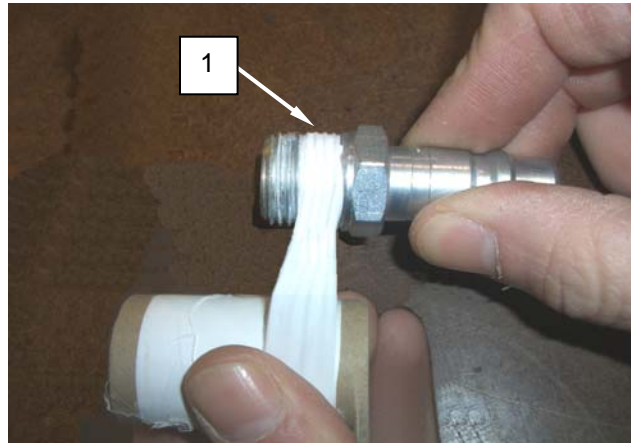


Figure 8. Wrap Quick Disconnect Fitting Threads with Thread Sealant Tape.

4. Install the quick disconnect fitting (Figure 9, Item 1) into the new airbeam ball valve hand tight (Figure 9, Item 2). With wrenches (Figure 9, Item 3), tighten the quick disconnect fitting.

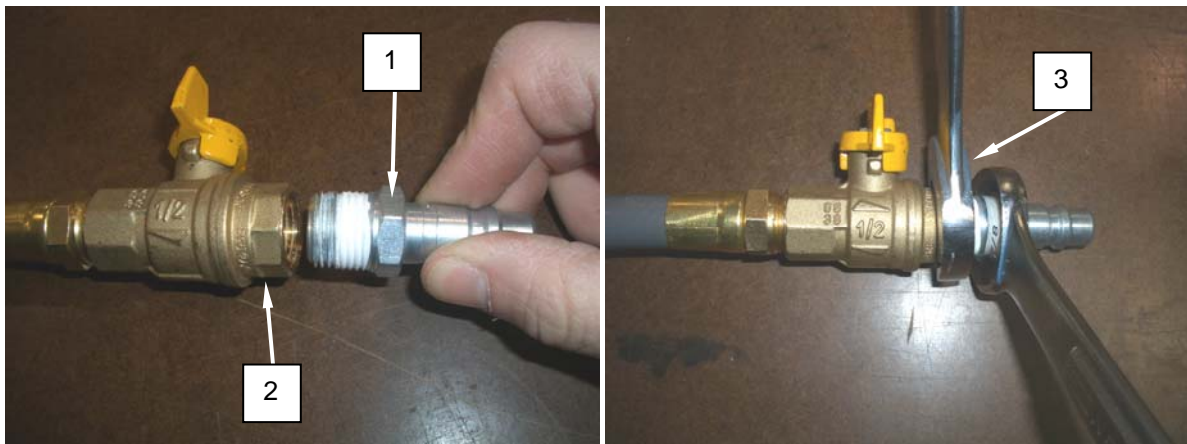


Figure 9. Install Quick Disconnect Fitting.

5. Inflate the airbeam that the replacement airbeam ball valve is attached to IAW WP 0024.

REPLACE – CONTINUED

6. Inspect the replacement airbeam ball valve (Figure 10) for leaks by applying soapy water solution to the assembly and look for bubbles when the air circuit is energized and connected to the completed circuit.
7. Turn the ball valve to the closed position and check for air bubbles at the inlet fitting (Figure 10, Item 1).
8. Open the ball valve and check for bubbles at the male quick disconnect fitting (Figure 10, Item 2).

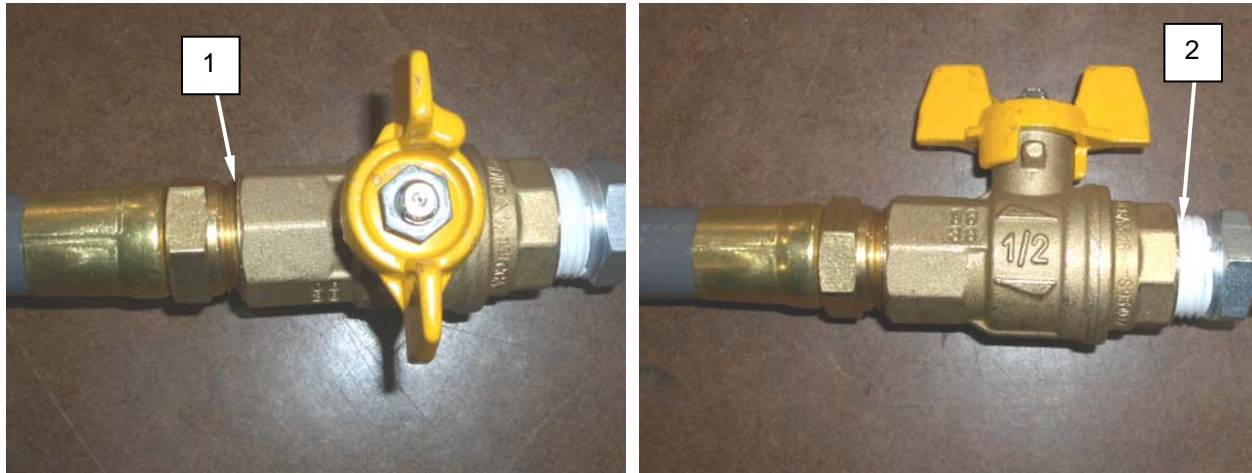


Figure 10. Replacement Airbeam Ball Valve.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE
AIRBEAM QUICK DISCONNECT FITTING
REPLACE

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanics (WP 0065, Item 4)

Personnel Required

Quartermaster and Chemical Equipment Repairer 63J (1)

Materials/PartsDetergent General Purpose (WP 0064, Item 7)
Tape, Thread Sealing (WP 0064, Item 17)**Equipment Condition**

Shelter either deployed or struck

REPLACE**Remove Airbeam Quick Disconnect Fitting****WARNING**

Airbeams can deflate rapidly if the inflation system is operated incorrectly, which can cause attached lighting, power or installed items to fall. Exercise great care when performing inflation system maintenance tasks. Failure to do may cause injury to personnel or damage to equipment.

NOTE

Ball Valves are open when the valve handle (Figure 1, Item 1) is in-line with the valve body, and closed when the valve handle (Figure 1, Item 2) is across the valve body.

1. At the ball valve attached to the airbeam quick disconnect fitting to be replaced, rotate the airbeam ball valve handle to the off position (Figure 1).

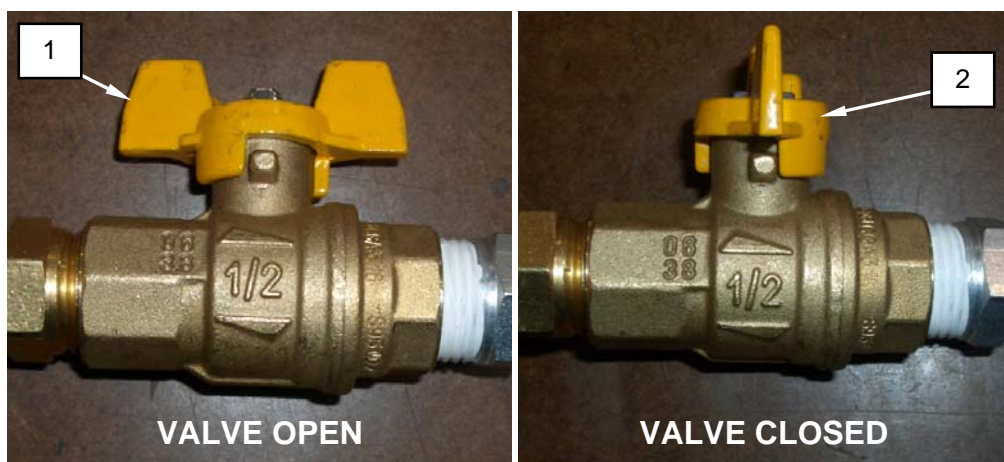


Figure 1. Ball Valve Handle Positions.

REPLACE - CONTINUED

2. Remove the quick disconnect fitting (Figure 2, Item 1) from the airbeam ball valve (Figure 2, Item 2).

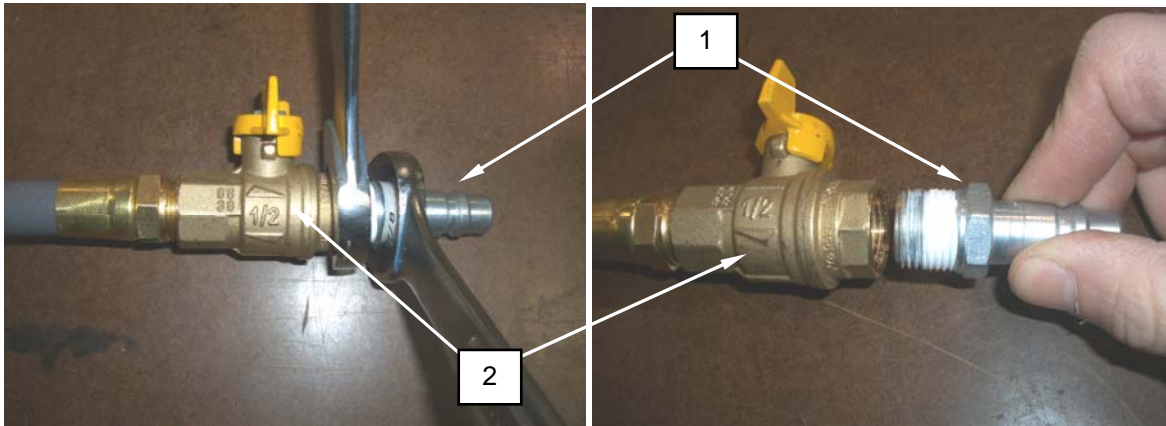


Figure 2. Remove Airbeam Quick Disconnect Fitting.

END OF TASK**Install Replacement Airbeam Quick Disconnect Fitting****CAUTION**

When using thread sealant tape, ensure that the end of the tape does not extend past the end of the threads into the open area inside the fitting. Failure to do so could cause pieces of the tape to get caught in the system and damage the equipment.

1. With thread sealant tape, wrap the threads (Figure 3) of the airbeam quick disconnect fitting from the quick disconnect end outwards, applying 2 or 3 turns of the thread sealant tape to the fitting.



Figure 3. Wrap Quick Disconnect Fitting Threads with Thread Sealant Tape.

REPLACE - CONTINUED

2. Install the quick disconnect fitting (Figure 4, Item 1) into the new airbeam ball valve hand tight (Figure 4, Item 2). With wrenches (Figure 4, Item 3), tighten the quick disconnect fitting.

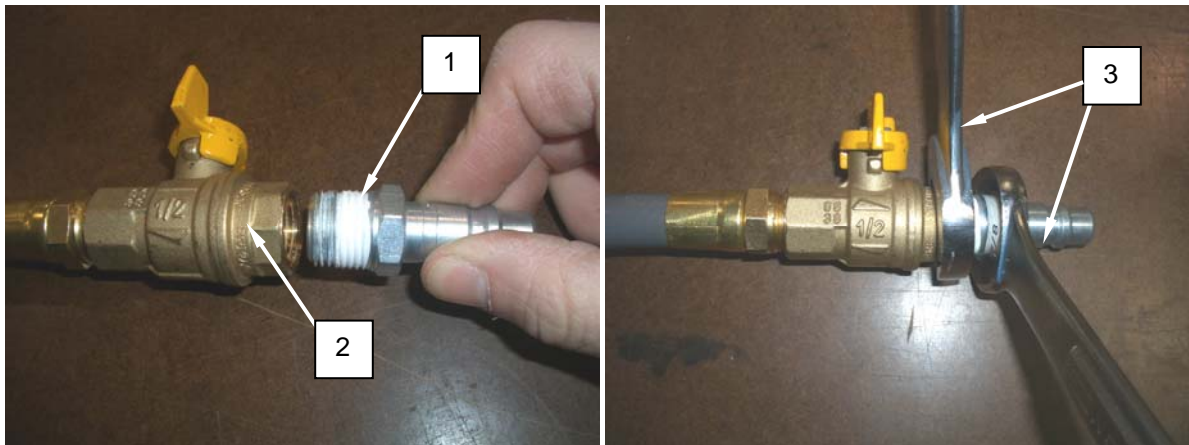


Figure 4. Install Quick Disconnect Fitting.

3. Inspect the replacement airbeam quick disconnect fitting (Figure 5, Item 1) for leaks by applying soapy water solution to the assembly and look for bubbles when the air circuit is energized and connected to the female fitting.



Figure 5. Replacement Airbeam Quick Disconnect Fitting.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE
PRESSURE REGULATOR
REPLACE

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanics (WP 0065, Item 4)

Personnel Required

Quartermaster and Chemical Equipment Repairer 63J (1)

Materials/Parts

Tape, Thread Sealing (WP 0064, Item 17)

Equipment Condition

Shelter either deployed or struck

REPLACE

NOTE

The pressure regulator can be replaced with the tent deployed, but all airbeams must be isolated using the airbeam inflation ball valves.

Ball Valves are open when the valve handle (Figure 2, Item 1) is in-line with the valve body, and closed when the valve handle (Figure 2, Item 2) is across the valve body.

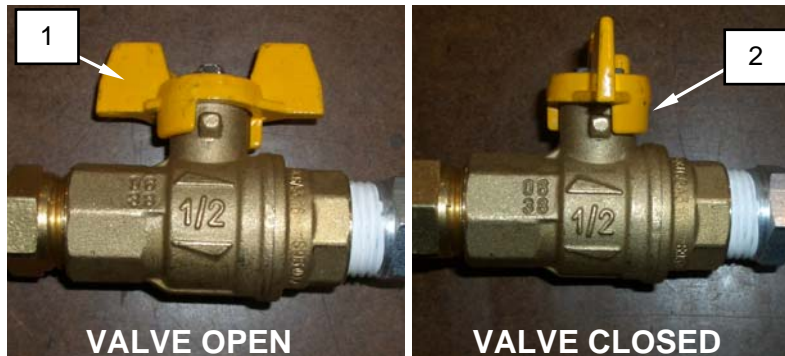


Figure 1. Ball Valve Handle Positions.

1. On the inflation manifold side of the tent, at each airbeam access pocket (Figure 2, Item 1), close all of the airbeam pigtail ball valves (Figure 2, Item 2) to isolate all airbeams from the manifold assembly.

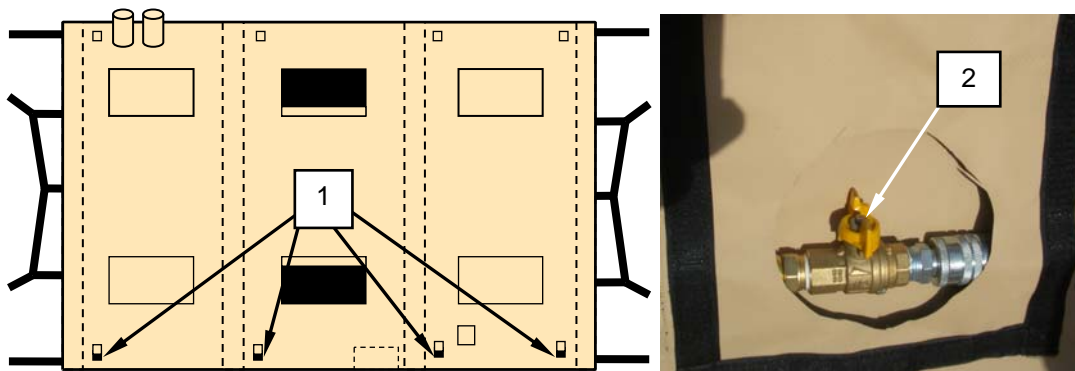


Figure 2. Airbeam Pigtail Ball Valves Closed.

REPLACE - CONTINUED

NOTE

The pressure regulator is an installed component in the manifold assembly, located between the shelter outer main skin and the liner.

2. Open the liner hook and pile fasteners to access the pressure regulator (Figure 3, Item 1).

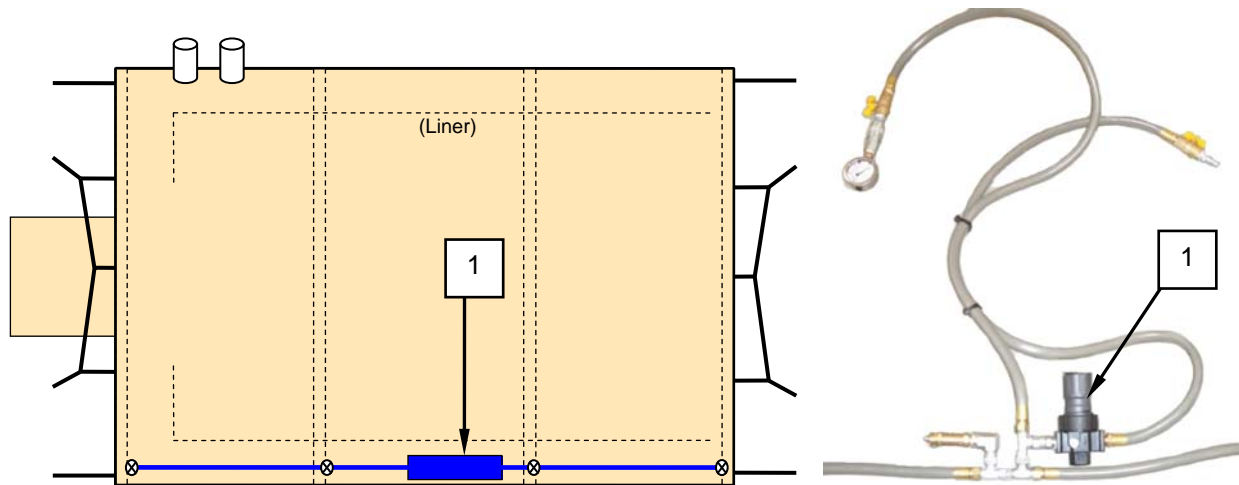


Figure 3. Pressure Regulator Location.

NOTE

It may be necessary to pull the inflation and deflation hoses from the access pocket to the inside of the shelter to have free access to replace the pressure regulator.

3. Along the outer main skin, untie enough of the securing straps (Figure 4, Item 1) holding the manifold assembly components, to gain free access to the pressure regulator (Figure 4, Item 2).

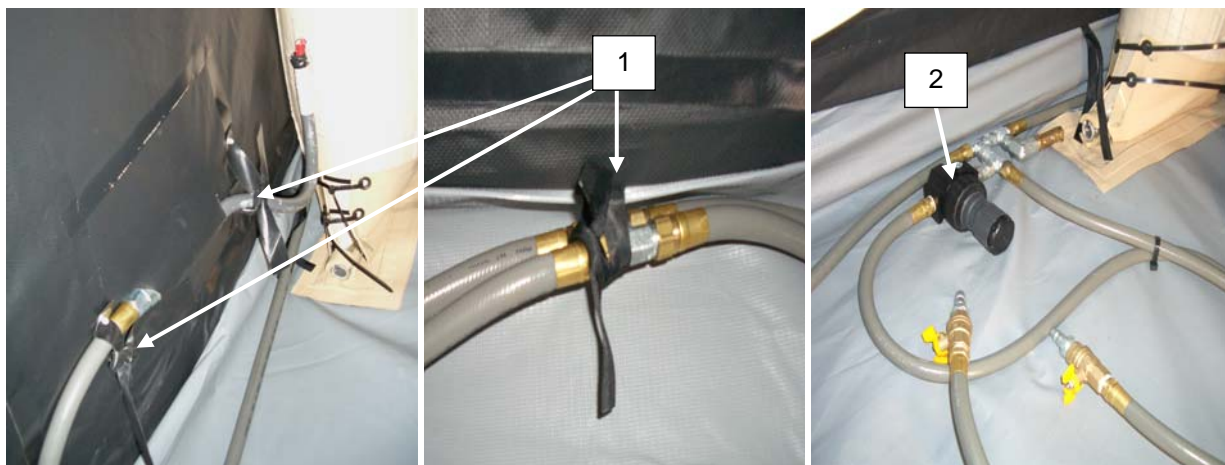


Figure 4. Manifold Assembly Location.

REPLACE - CONTINUED

CAUTION

Note the orientation of the pressure regulator connections to the manifold assembly prior to removal of the pressure regulator from the manifold assembly. The pressure regulator (Figure 5, Item 1) is a one way device with the direction of flow arrow (Figure 5, Item 2) stamped on the bottom of the regulator, and must be reinstalled in the proper inlet / outlet orientation. Failure to do so may result in equipment damage.

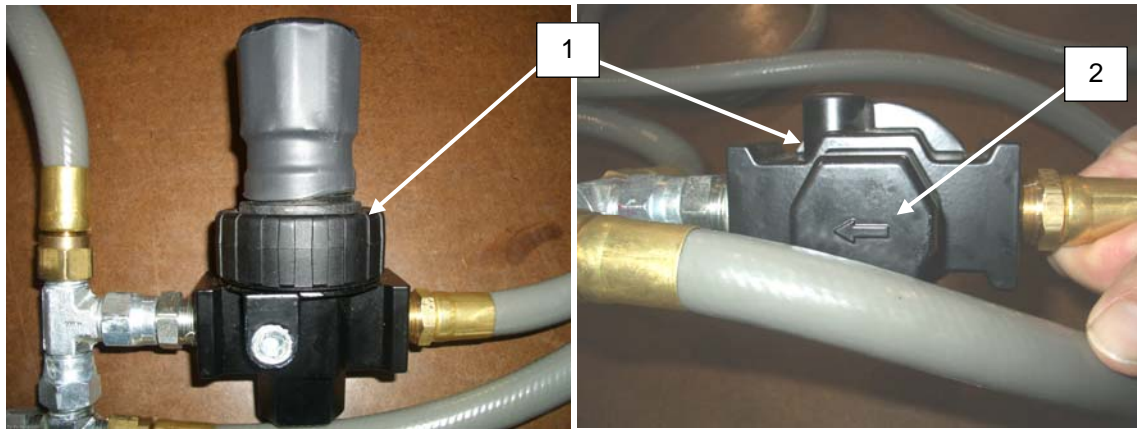


Figure 5. Pressure Regulator Direction of Flow.

4. Noting the direction of flow orientation of the pressure regulator, disconnect the manifold assembly fittings (Figure 6, Item 1) from both ends of the pressure regulator (Figure 6, Item 2).

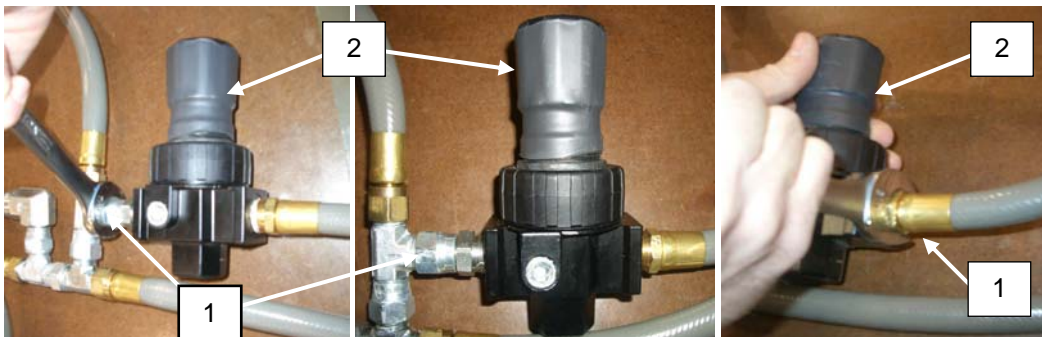


Figure 6. Disconnect Manifold Assembly Fittings from Pressure Regulator.

REPLACE - CONTINUED

5. Disconnect and remove the adapter fitting (Figure 7, Item 1) from the outlet side of the pressure regulator (Figure 7, Item 2). If the adapter fitting is serviceable, set aside for reassembly.

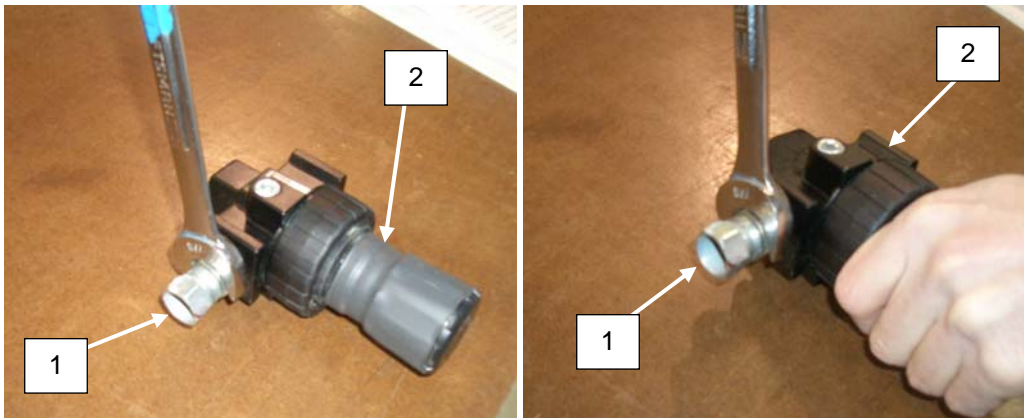


Figure 7. Disconnect Outlet Adapter from Pressure Regulator.

6. Remove any debris or sealing tape residue from the threads (Figure 8, Item 1) of the manifold air hose or pressure regulator outlet adapter fitting.

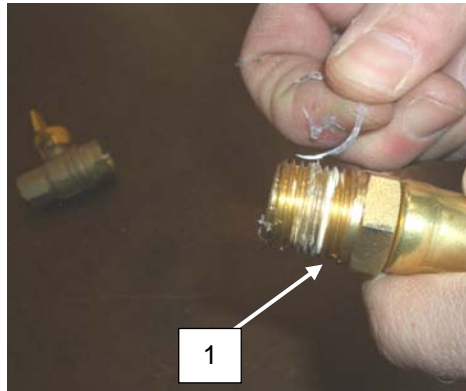


Figure 8. Remove Debris from Fitting Threads.

REPLACE - CONTINUED

CAUTION

When using thread sealant tape, ensure that the end of the tape does not extend past the end of the threads into the open area inside the fitting. Failure to do so could cause pieces of the tape to get caught in the system and damage the equipment.

7. With thread sealant tape, wrap the threads of the pressure regulator outlet adapter fitting (Figure 9, Item 1) outwards, applying 2 or 3 turns of the thread sealant tape to the fitting.

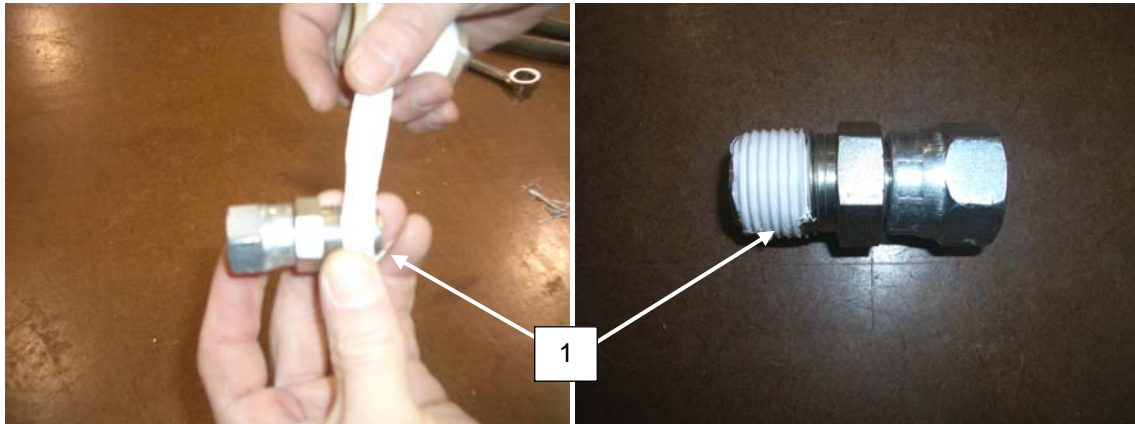


Figure 9. Wrap Fitting Threads with Thread Sealant Tape.

CAUTION

The pressure regulator (Figure 10, Item 1) is a one way device with the direction of flow arrow (Figure 5, Item 2) stamped on the bottom of the regulator. Ensure that the pressure regulator outlet adapter (Figure 10, Item 3) is installed in the outlet of the pressure regulator. Failure to do so may result in damage to the equipment.

8. Install the pressure regulator outlet adapter (Figure 10, Item 3) into the outlet side of the pressure regulator (Figure 10, Item 1) hand tight. Tighten with a wrench.

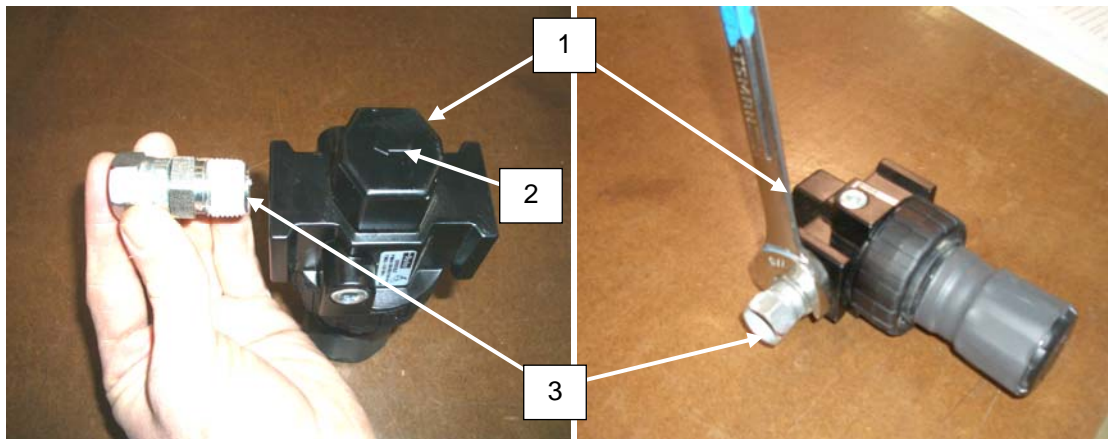


Figure 10. Install Outlet Adapter In Pressure Regulator.

REPLACE - CONTINUED

CAUTION

When using thread sealant tape, ensure that the end of the tape does not extend past the end of the threads into the open area inside the fitting. Failure to do so could cause pieces of the tape to get caught in the system and damage the equipment.

9. With thread sealant tape, wrap the threads of the manifold assembly air hose fitting (Figure 11, Item 1) from the threads outwards, applying 2 or 3 turns of the thread sealant tape to the hose fitting threads.

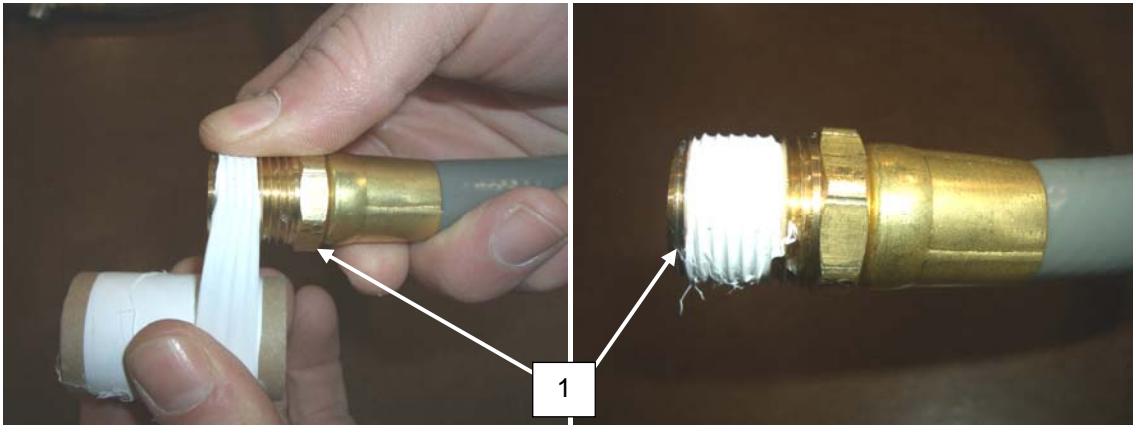


Figure 11. Wrap Hose Fitting Threads with Thread Sealant Tape.

10. Install the manifold assembly air hose (Figure 12, Item 1) into the inlet side of the pressure regulator (Figure 12, Item 2) hand tight. Tighten with a wrench.

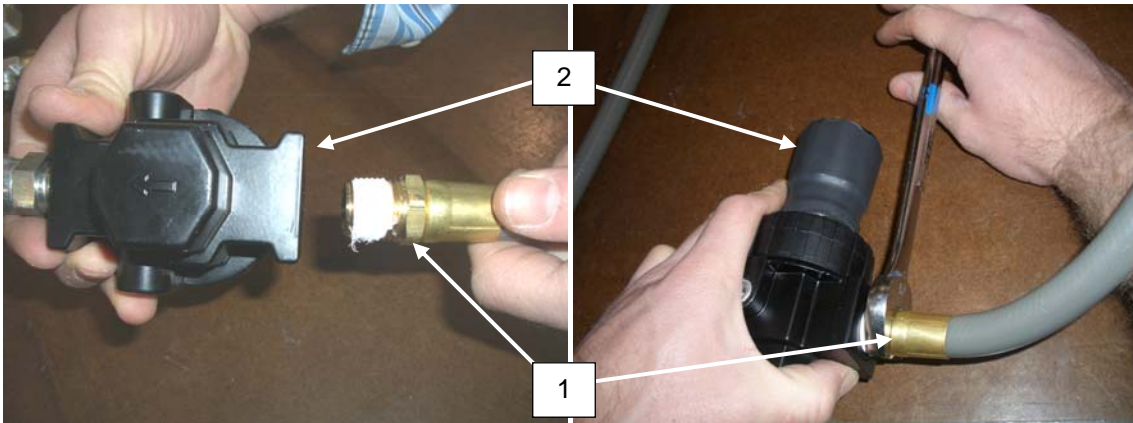


Figure 12. Install Manifold Air Hose Fitting in Pressure Regulator.

REPLACE - CONTINUED

11. Apply thread sealing tape to the manifold assembly fitting (figure 13, Item 2).
12. Connect the pressure regulator output adapter fitting (Figure 13, Item 1) to the manifold assembly fitting (Figure 13, Item 2) hand tight. Tighten with a wrench.

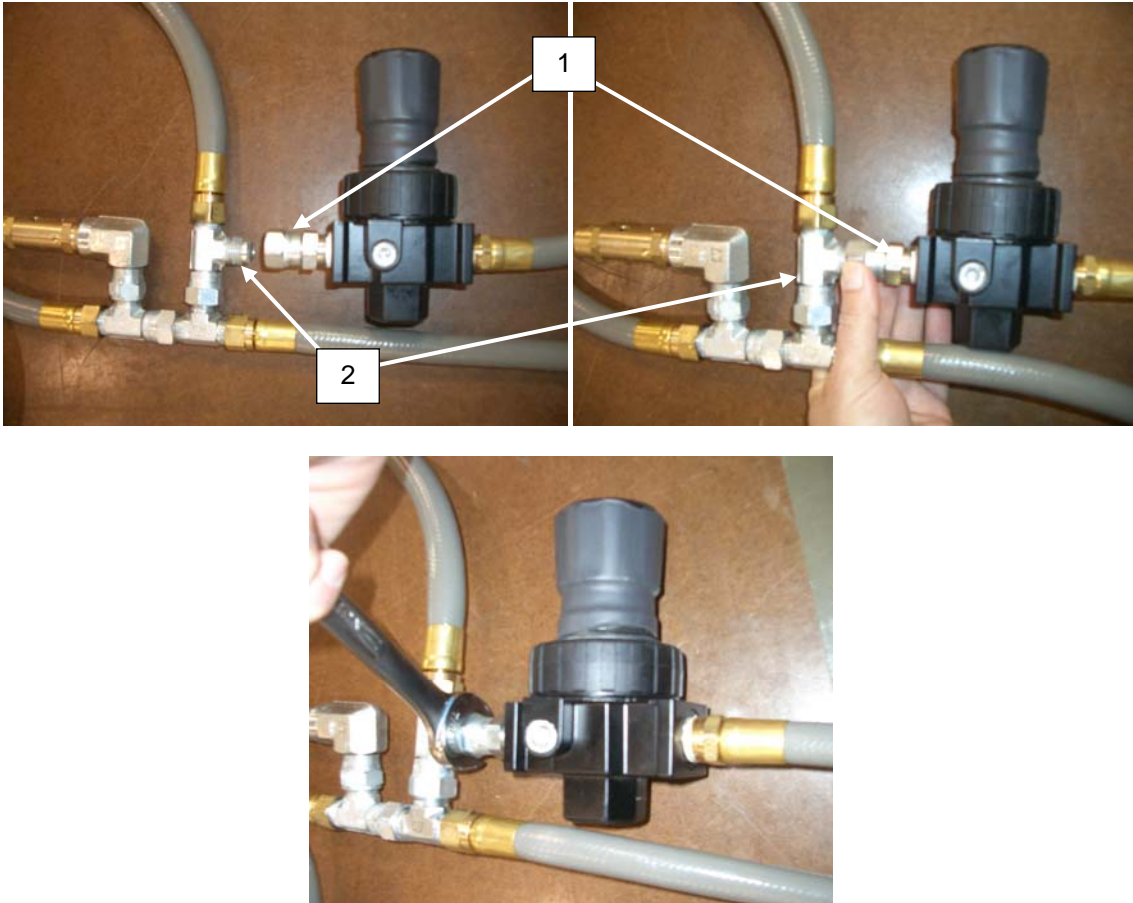


Figure 13. Install Pressure Regulator in Manifold Assembly.

REPLACE - CONTINUED

13. Position the manifold assembly (Figure 14, Item 1) along the outer main skin, routing the inflation and deflation air hoses (Figure 14, Item 2) into the access pocket (Figure 14, Item 3).

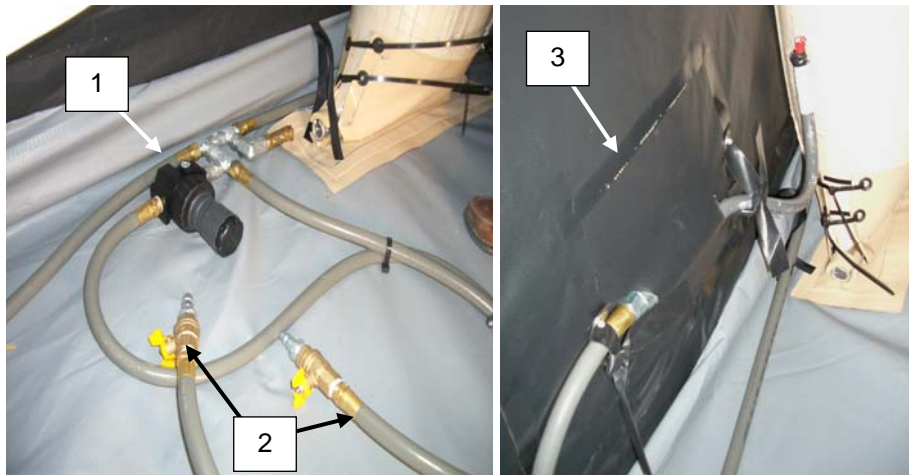


Figure 14. Position Manifold Assembly Components.

14. Secure the manifold assembly components and air hoses with the securing ties (Figure 15, Item 1) attached to the outer main skin.

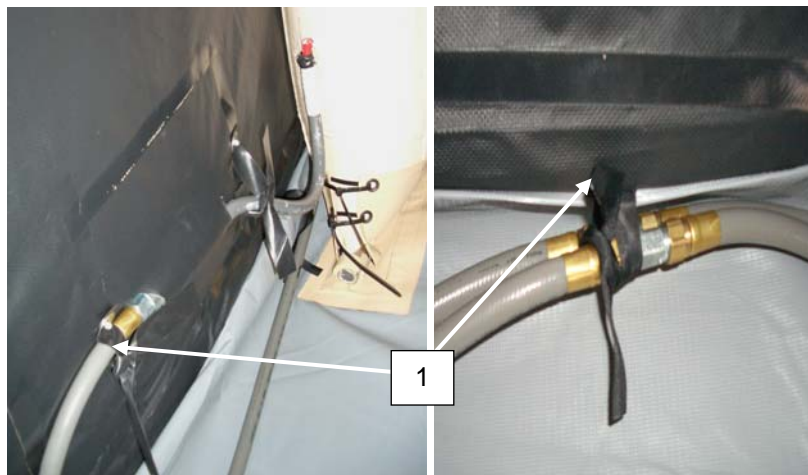


Figure 15. Securing Manifold Assembly Components.

15. Restore any openings in the main liner hook and pile fastening tape strips.

REPLACE - CONTINUED

16. On the inflation manifold side of the tent, at each airbeam access pocket (Figure 16, Item 1), open each of the airbeam pigtail ball valves (Figure 16, Item 2) to connect all of the airbeams to the manifold assembly.

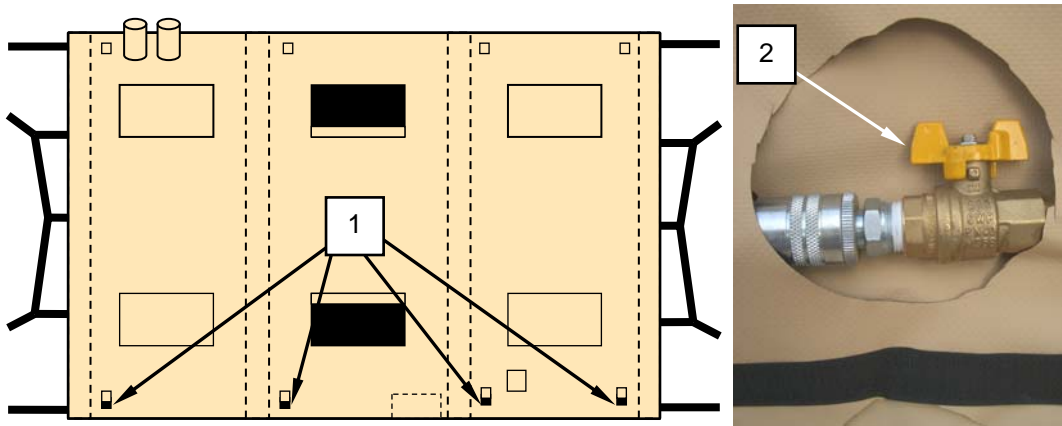


Figure 16. Airbeam Pigtail Ball Valves Closed.

NOTE

TEMPER, Air-Supported air pressure is monitored during inflation with an air pressure gauge connected to the deflation hose.

17. At the manifold hose access pocket, connect the air pressure gauge female QD fitting (Figure 17, Item 1) to the deflation air hose male QD fitting (Figure 17, Item 2).

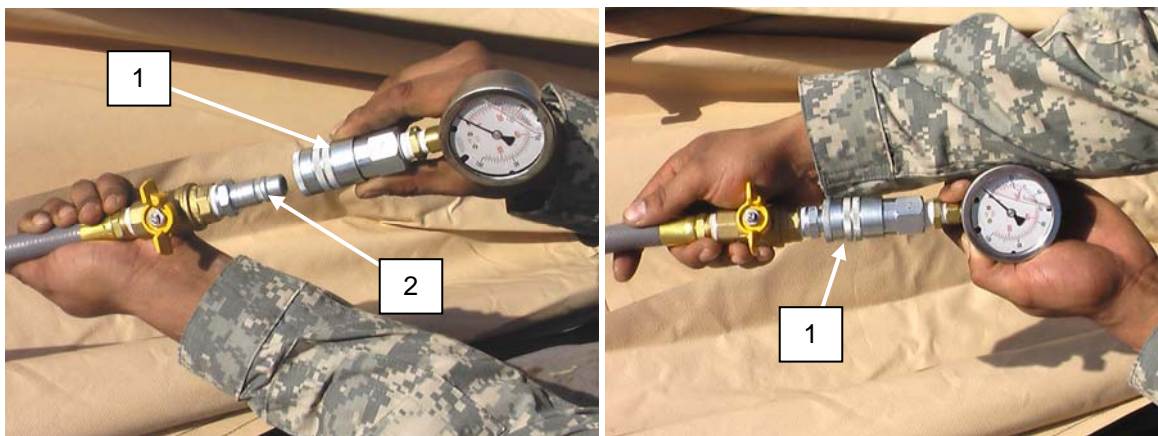


Figure 17. Connect Air Pressure Gauge to Deflation Air Hose.

REPLACE - CONTINUED

18. Open the deflation air hose ball valve (Figure 18, Item 1), and verify that the TEMPER, Air-Supported shelter, measured at the manifold assembly deflation air hose, is inflated to 50 PSIG (± 5 PSI).

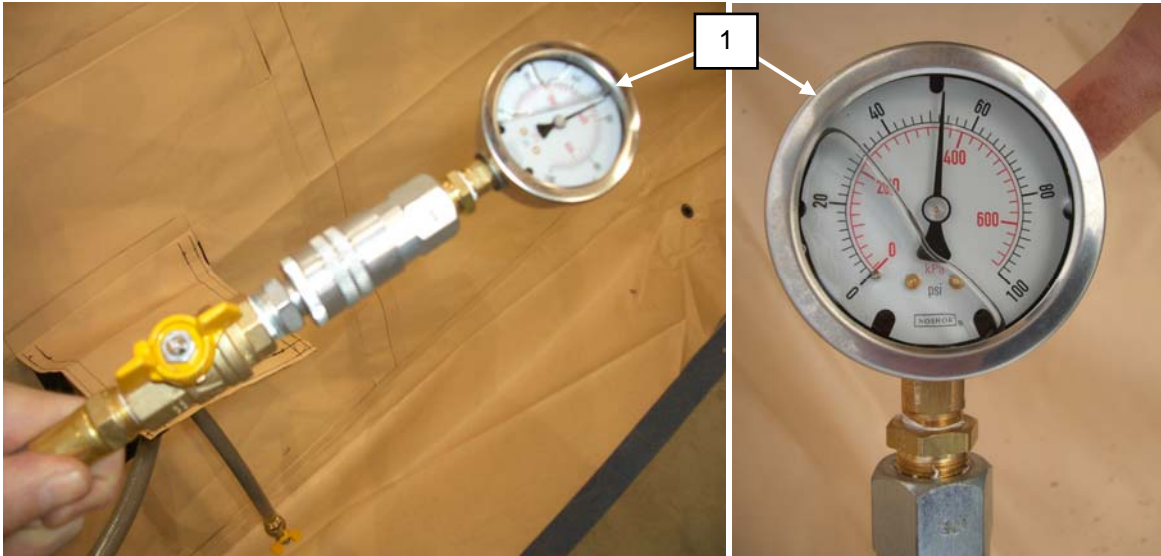


Figure 18. Open Deflation Air Hose Ball Valve.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE
PRESSURE RELIEF VALVE
REPLACE

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanics (WP 0065, Item 4)

Personnel Required

Quartermaster and Chemical Equipment Repairer 63J (1)

Materials/Parts

Tape, Thread Sealing (WP 0064, Item 17)

Equipment Condition

Shelter either deployed or struck

REPLACE

NOTE

The pressure relief valve can be replaced with the tent deployed, but all airbeams must be isolated using the airbeam inflation ball valves.

Ball Valves are open when the valve handle (Figure 1, Item 1) is in-line with the valve body, and closed when the valve handle (Figure 1, Item 2) is across the valve body.

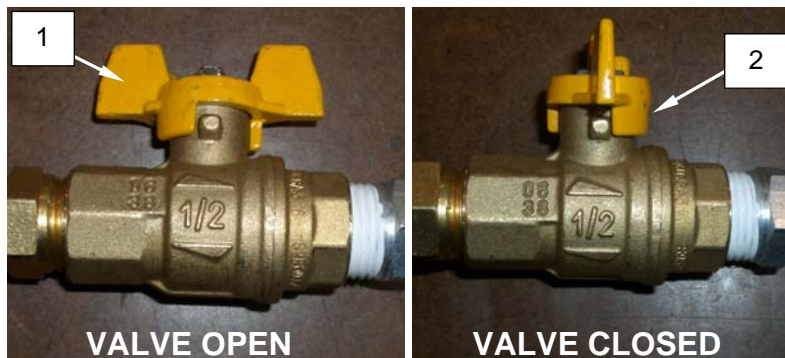


Figure 1. Ball Valve Handle Positions.

1. On the inflation manifold side of the tent, at each airbeam access pocket (Figure 2, Item 1), close all of the airbeam pigtail ball valves (Figure 2, Item 2) to isolate all airbeams from the manifold assembly.

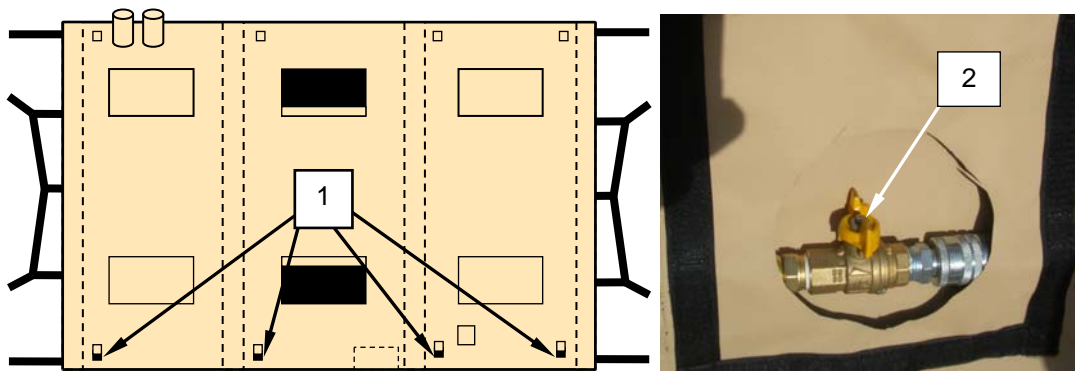


Figure 2. Airbeam Pigtail Ball Valves Closed.

REPLACE - CONTINUED

NOTE

The pressure relief valve is an installed component in the manifold assembly, located between the shelter outer main skin and the liner.

2. Open the liner hook and pile fasteners to access the pressure relief valve (Figure 3, Item 1).

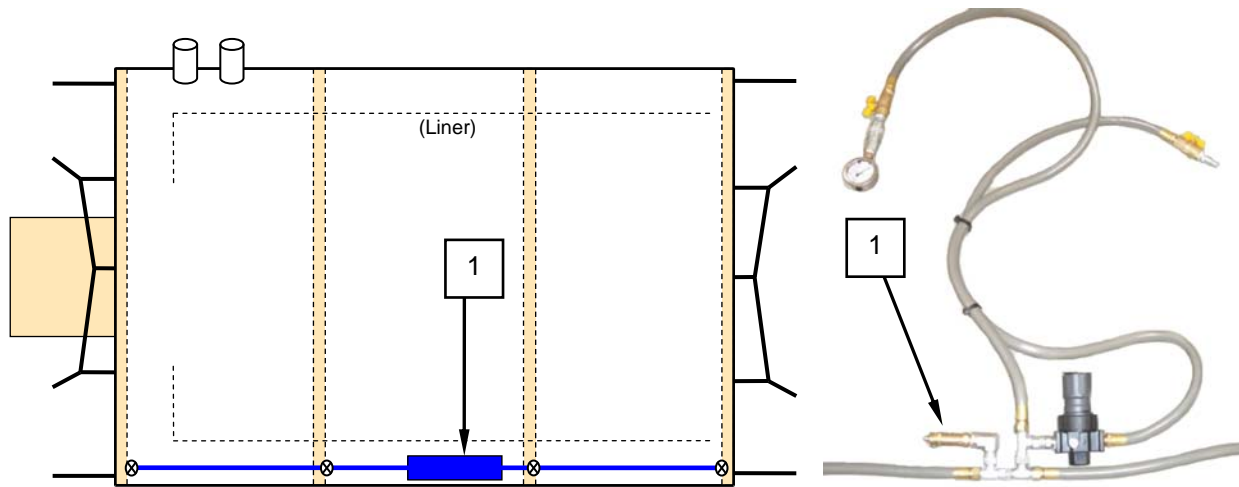


Figure 3. Pressure Relief Valve Location.

NOTE

It may be necessary to pull the inflation and deflation hoses from the access pocket to the inside of the shelter to have free access to replace the pressure relief valve.

3. Along the outer main skin, untie enough of the securing straps (Figure 4, Item 1) holding the manifold assembly components, to gain free access to the pressure relief valve (Figure 4, Item 2).

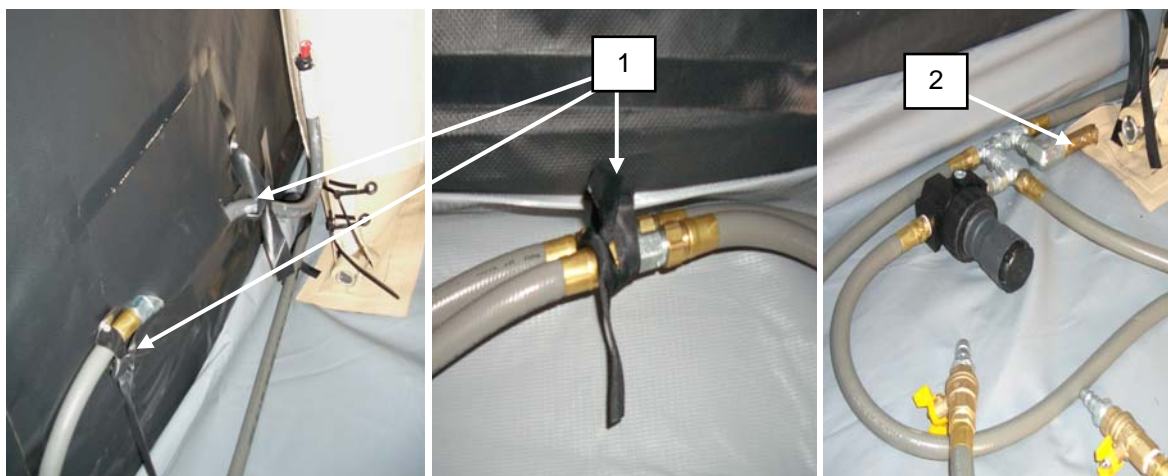


Figure 4. Manifold Assembly Location.

REPLACE - CONTINUED

4. Disconnect the pressure relief valve (Figure 5, Item 1) from the manifold assembly fitting (Figure 5, Item 2). Set aside the removed pressure relief valve.

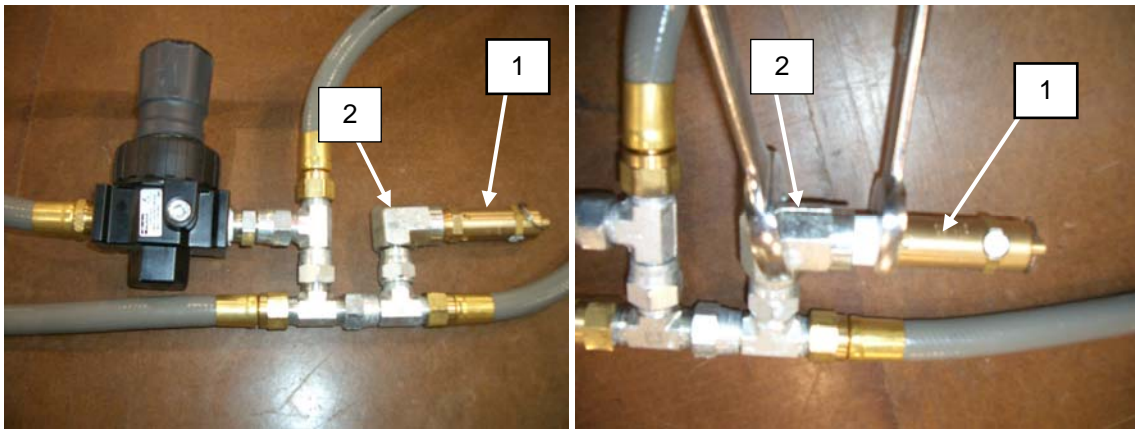


Figure 5. Disconnect Pressure Relief Valve from Manifold.

CAUTION

When using thread sealant tape, ensure that the end of the tape does not extend past the end of the threads into the open area inside the fitting. Failure to do so could cause pieces of the tape to get caught in the system and damage the equipment.

5. With thread sealant tape, wrap the threads of the replacement pressure relief valve (Figure 6, Item 1) outwards on the threads, applying 2 or 3 turns of the thread sealant tape to the threads.

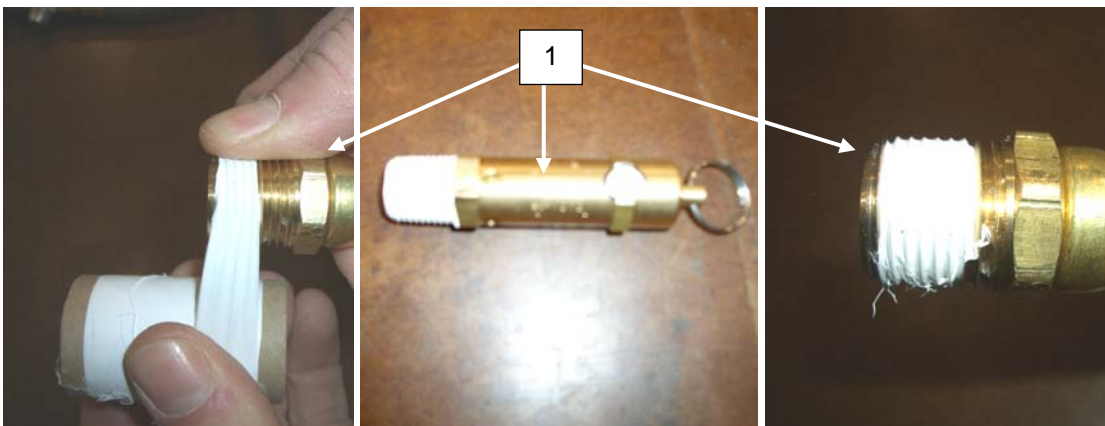


Figure 6. Wrap Threads with Thread Sealant Tape.

REPLACE - CONTINUED

6. Install the pressure relief valve (Figure 7, Item 1) in the manifold fitting (Figure 7, Item 2) hand tight. Tighten with a wrench.

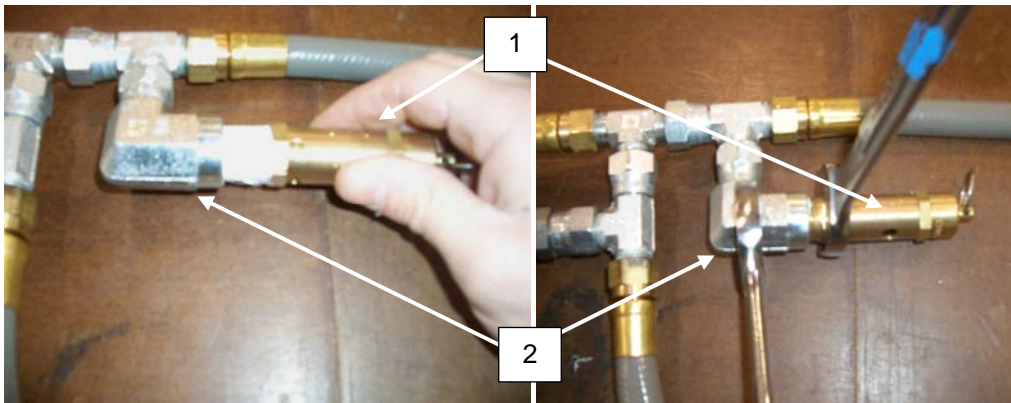


Figure 7. Install Pressure Relief Valve into Manifold Assembly Fitting.

7. Position the manifold assembly (Figure 8, Item 1) along the outer main skin, routing the inflation and deflation air hoses (Figure 8, Item 2) into the access pocket (Figure 8, Item 3).

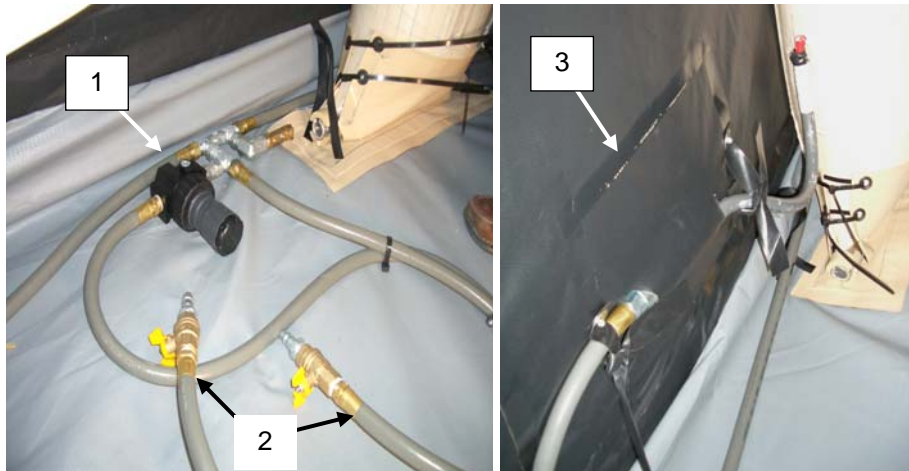


Figure 8. Position Manifold Assembly Components.

REPLACE - CONTINUED

8. Secure the manifold assembly components and air hoses with the securing ties (Figure 9, Item 1) attached to the outer main skin.

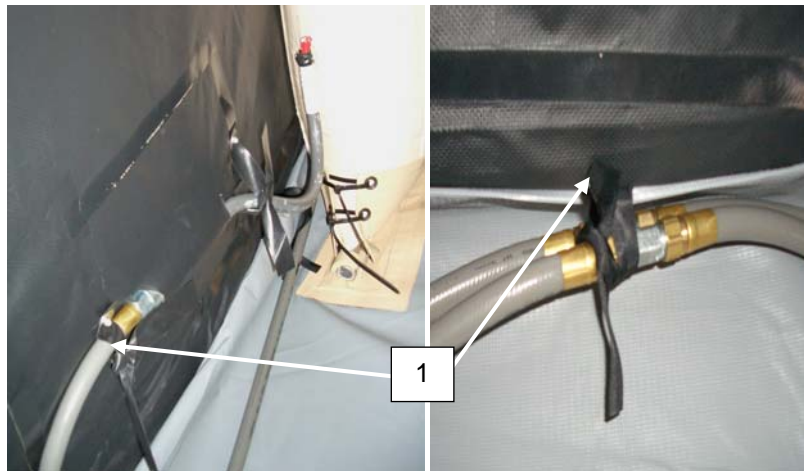


Figure 9. Securing Manifold Assembly Components.

9. Restore any openings in the main liner hook and pile fastening tape strips.
10. On the inflation manifold side of the tent, at each airbeam access pocket (Figure 10, Item 1), open each of the airbeam pigtail ball valves (Figure 10, Item 2) to connect all of the airbeams to the manifold assembly.

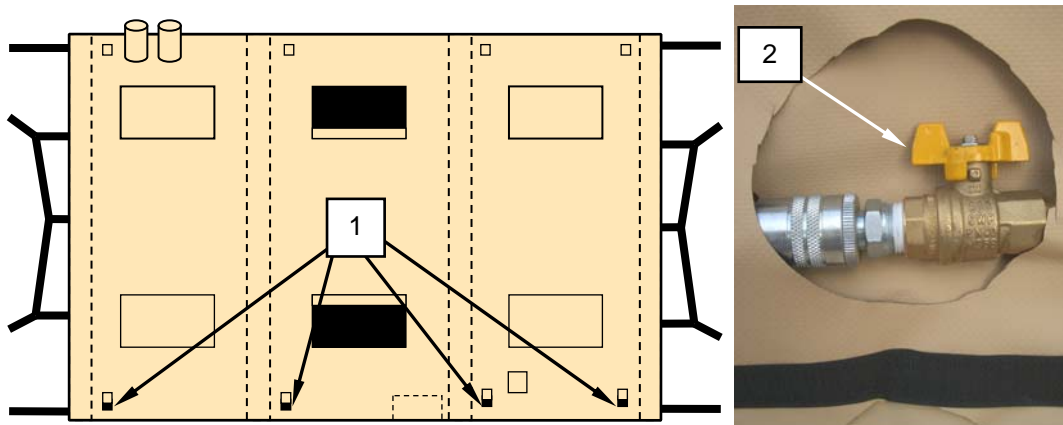


Figure 10. Airbeam Pigtail Ball Valves Open.

REPLACE - CONTINUED

NOTE

TEMPER, Air-Supported air pressure is monitored during inflation with an air pressure gauge connected to the deflation hose.

11. At the manifold hose access pocket, connect the air pressure gauge female QD fitting (Figure 11, Item 1) to the deflation air hose male QD fitting (Figure 11, Item 2).

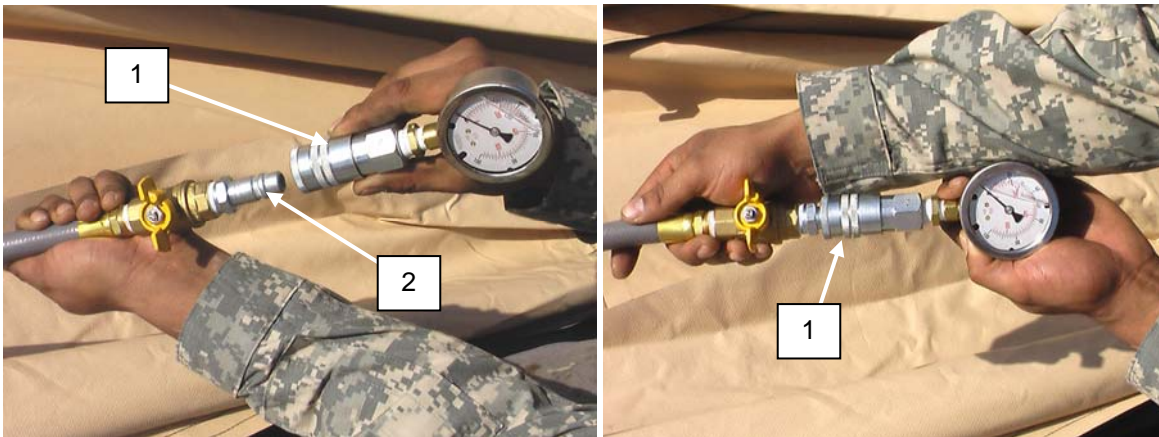


Figure 11. Connect Air Pressure Gauge to Deflation Air Hose.

12. Open the deflation air hose ball valve (Figure 12, Item 1), and verify that the TEMPER, Air-Supported shelter, measured at the manifold assembly deflation air hose, is inflated to 50 PSIG (± 5 PSI).

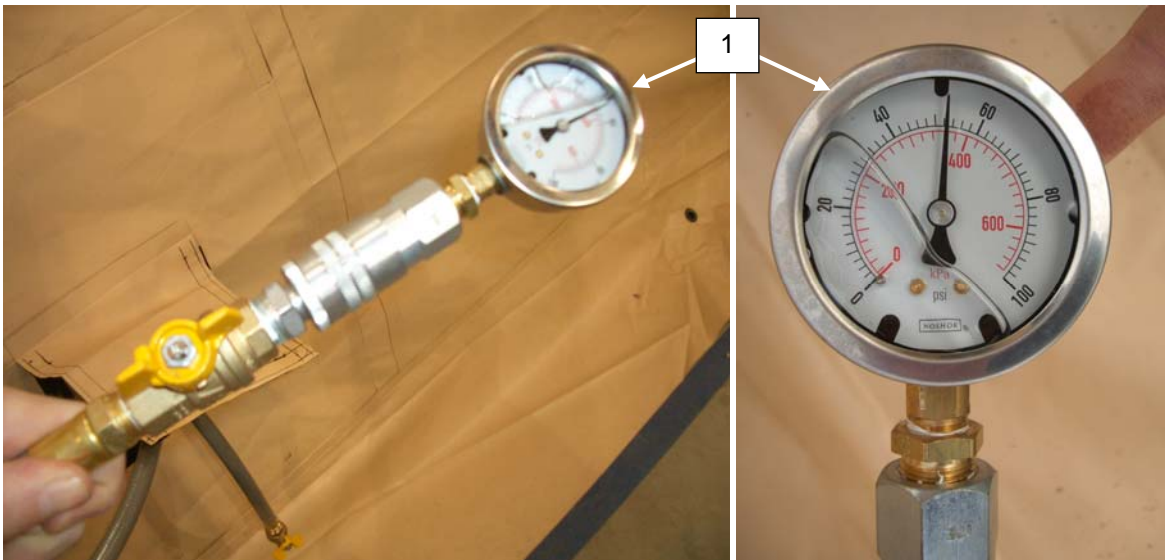


Figure 12. Open Deflation Air Hose Ball Valve.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE
MANIFOLD BALL VALVE
REPLACE

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanics (WP 0065, Item 4)

Personnel RequiredQuartermaster and Chemical Equipment
Repairer 63J (1)**Materials/Parts**Detergent, General Purpose (WP 0064, Item 7)
Tape, Thread Sealing (WP 0064, Item 17)**Equipment Condition**

Shelter either deployed or struck

REPLACE**Remove Manifold Ball Valve****WARNING**

The TEMPER, Air-Supported shelter can deflate rapidly if the inflation system is operated incorrectly, which can cause attached lighting, power or user installed items to fall. Exercise great care when performing inflation system maintenance tasks. Failure to do may cause injury to personnel or damage to equipment.

REPLACE - CONTINUED

1. Isolate the airbeams from the manifold by closing all eight airbeam ball valves at the exterior airbeam inflation valve access pockets (Figure 1, Item 1) Visually verify that each valve is in the closed (off) position with the valve handle across the direction of the valve body (Figure 1, Item 2).

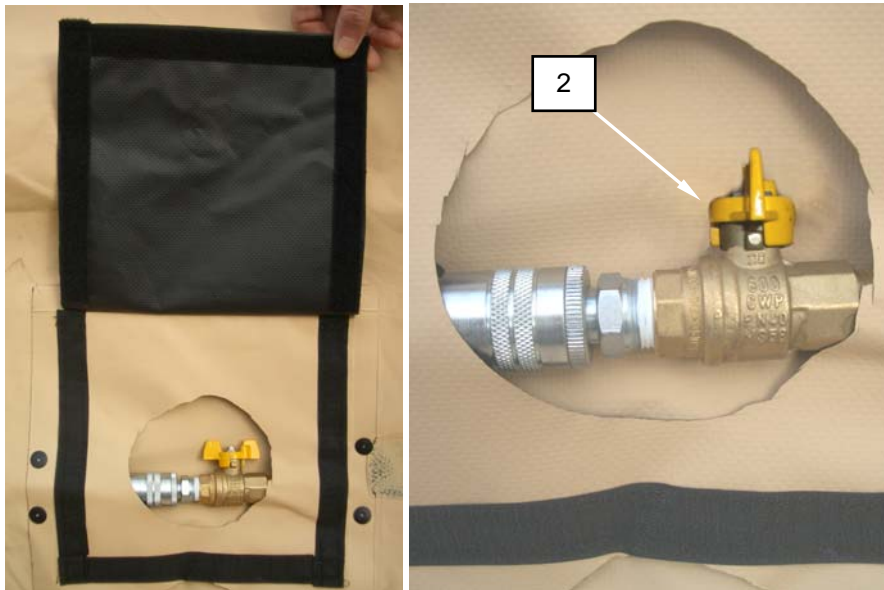
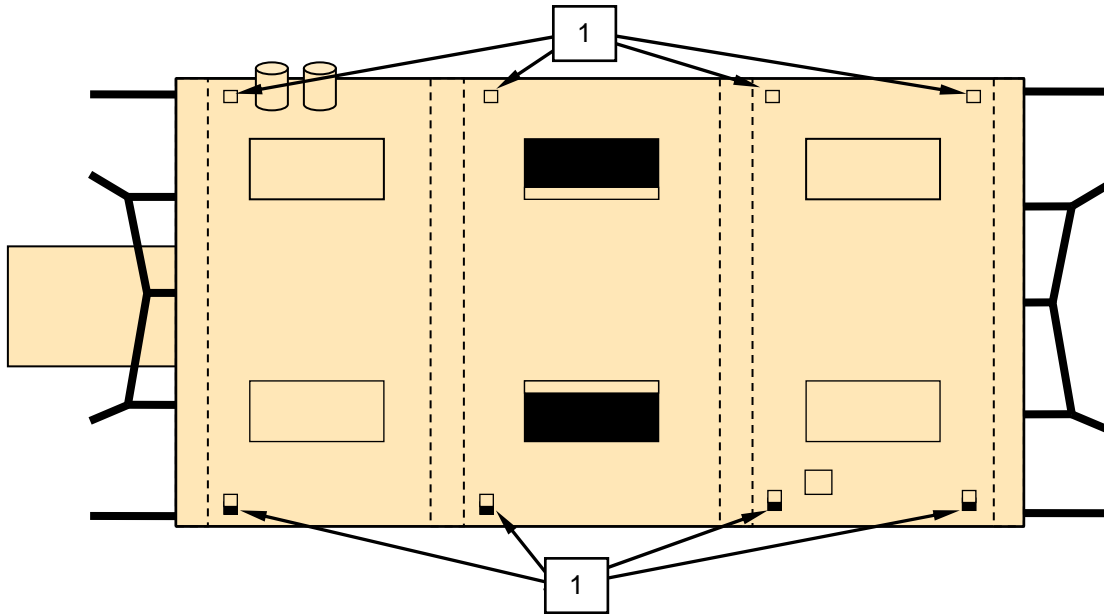


Figure 1. Close all Airbeam Inflation Valves.

REPLACE - CONTINUED

NOTE

The inflation manifold (Figure 2, Item 1) is located between the main body skin and main liner near the inflation hose access pocket (Figure 2, Item 2).

There are two ball valves (Figure 2, Item 3) attached to the inflation manifold assembly, connected to the inflation and deflation hoses, respectively. The replacement procedure is the same.

2. From the interior of the shelter, separate the liner hook and pile fastening strips and fastening ties, as needed to access the inflation manifold.

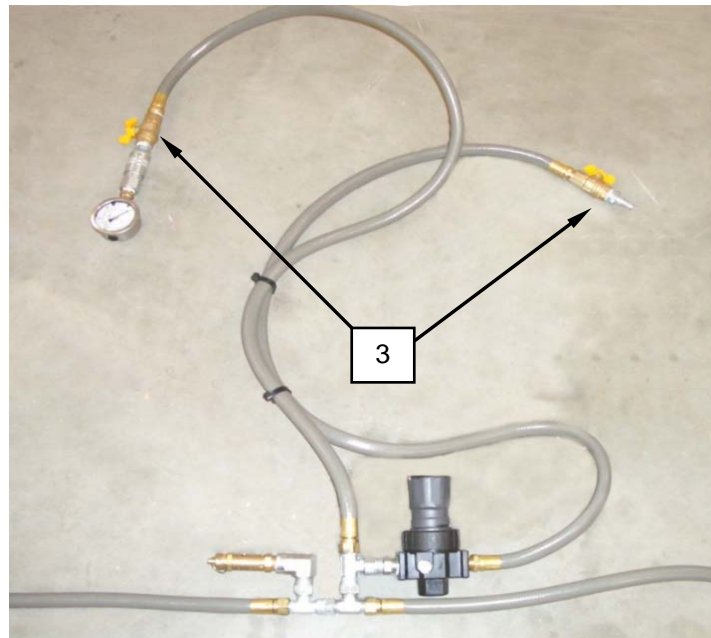
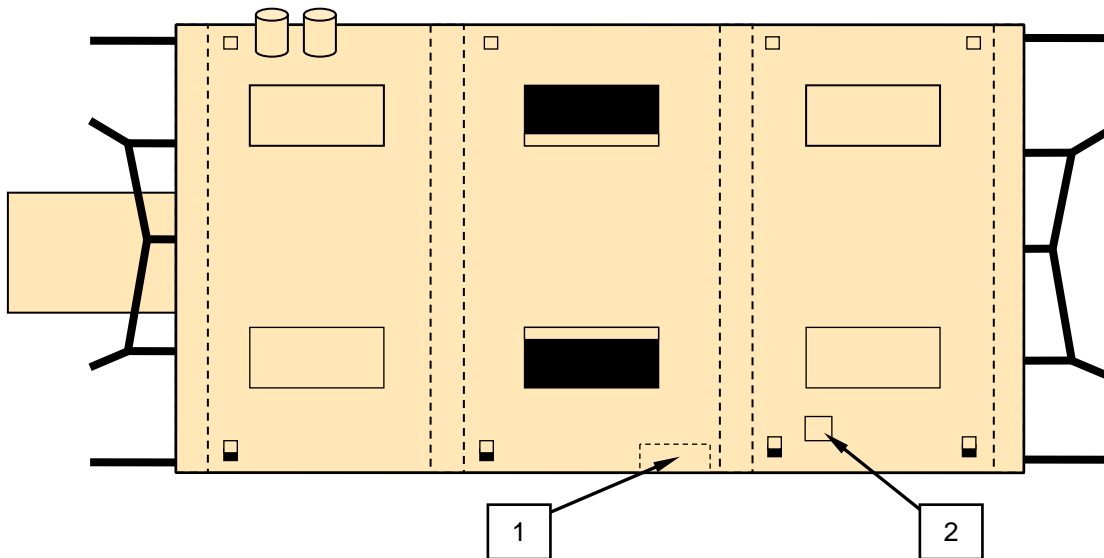


Figure 2. Inflation Manifold.

REPLACE - CONTINUED

3. Rotate the handle of the ball manifold ball valve to be removed to the off position (Figure 3, Item 1).

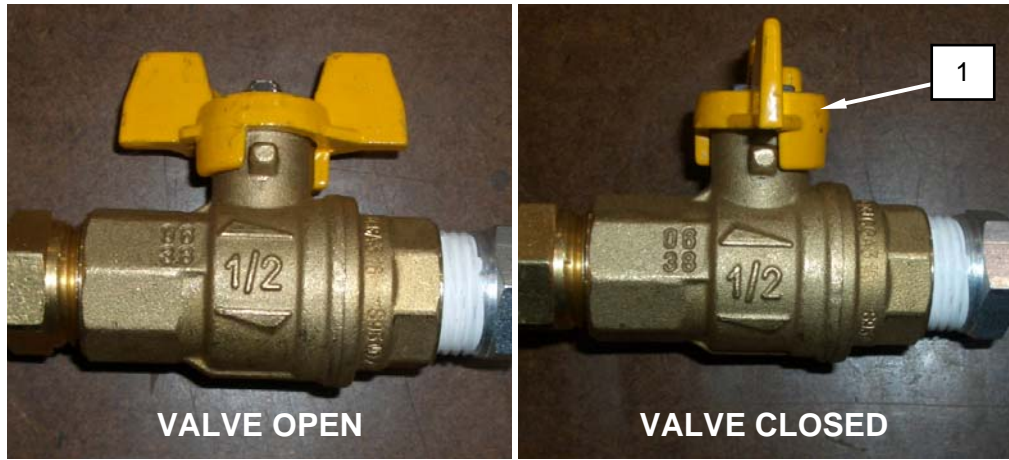


Figure 3. Close Manifold Ball Valve.

4. Remove the quick disconnect fitting (Figure 4, Item 1) from the manifold ball valve (Figure 4, Item 2).

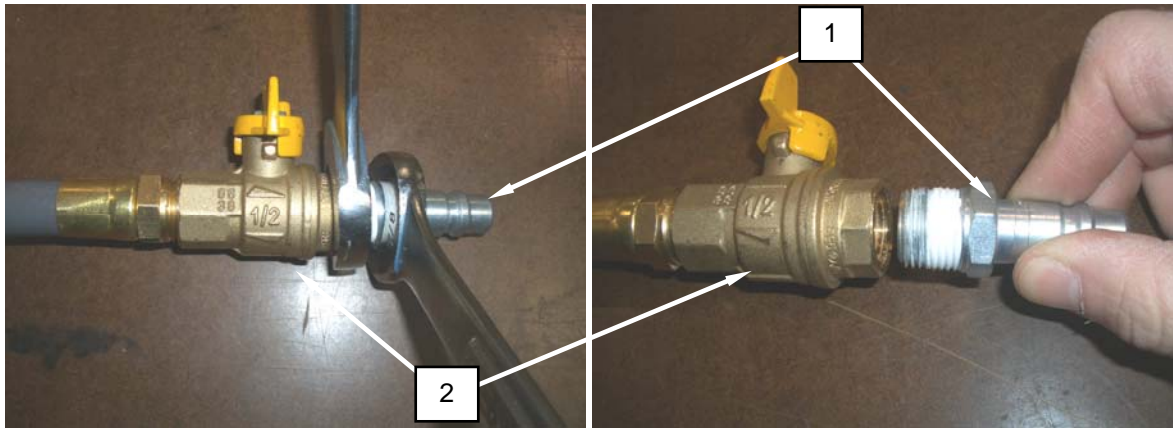


Figure 4. Remove Quick Disconnect Fitting from Manifold Ball Valve.

REPLACE - CONTINUED

5. Remove any debris or sealing tape residue from the threads (Figure 5, Item 1) of the quick disconnect fitting. If the quick disconnect fitting is serviceable, set aside for reuse.

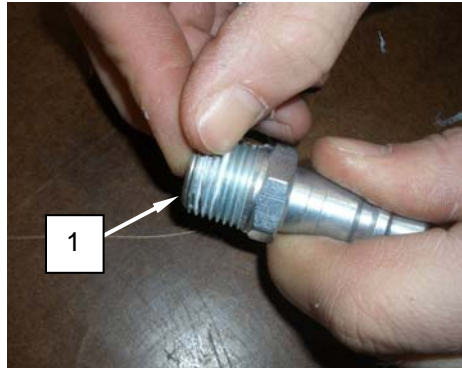


Figure 5. Remove Debris from Quick Disconnect Fitting Threads.

6. Remove the manifold ball valve (Figure 6, Item 1) from the air hose connection fitting (Figure 6, Item 2).

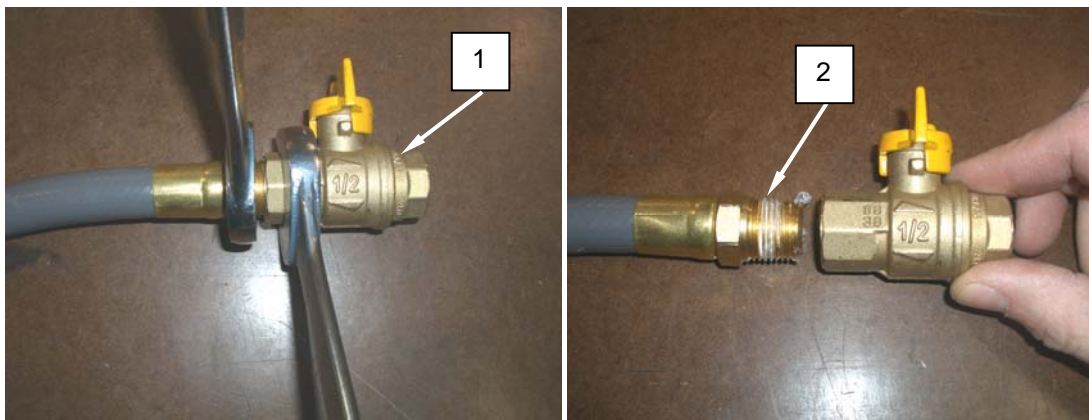


Figure 6. Remove Manifold Ball Valve from Air Hose Fitting.

REPLACE - CONTINUED

7. Remove any debris or sealing tape residue from the threads (Figure 7, Item 1) of the manifold hose fitting.



Figure 7. Remove Debris from Manifold Hose Fitting Threads.

END OF TASK

REPLACE - CONTINUED**Install Replacement Manifold Ball Valve****CAUTION**

When using thread sealant tape, ensure that the end of the tape does not extend past the end of the threads into the open area inside the fitting. Failure to do so could cause pieces of the tape to get caught in the system and damage the equipment.

1. With thread sealant tape, wrap the threads (Figure 8, Item 1) of the manifold inflation hose fitting from the hose outwards, applying 2 or 3 turns of the thread sealant tape to the fitting.

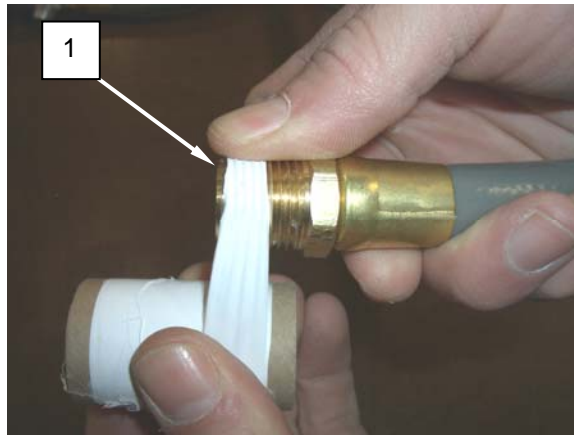


Figure 8. Wrap Manifold Hose Fitting Threads with Thread Sealant Tape.

2. Install the replacement manifold ball valve (Figure 9, Item 1) into the manifold inflation hose connection fitting (Figure 9, Item 2) hand tight. With wrenches, tighten the manifold inflation hose fitting.

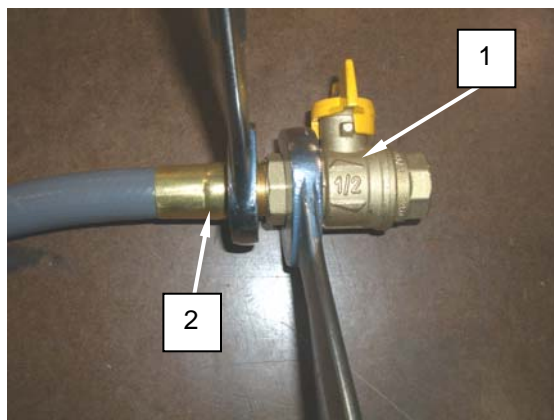


Figure 9. Install Replacement Manifold Ball Valve.

REPLACE - CONTINUED

CAUTION

When using thread sealant tape, ensure that the end of the tape does not extend past the end of the threads into the open area inside the fitting. Failure to do so could cause pieces of the tape to get caught in the system and damage the equipment.

3. With thread sealant tape, wrap the threads (Figure 10, Item 1) of the manifold quick disconnect fitting from the quick disconnect end outwards, applying 2 or 3 turns of the thread sealant tape to the fitting.

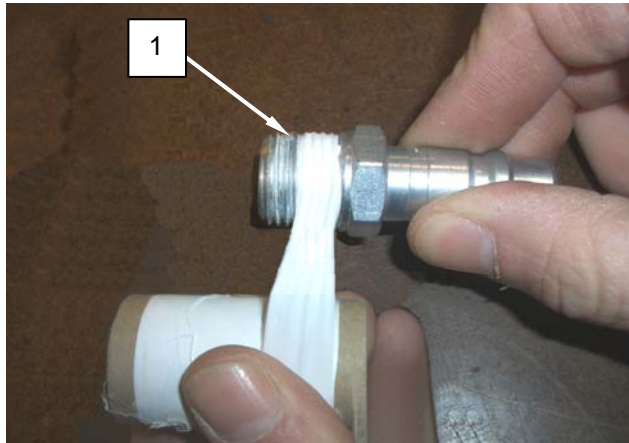


Figure 10. Wrap Quick Disconnect Fitting Threads with Thread Sealant Tape.

4. Install the quick disconnect fitting (Figure 11, Item 1) into the new manifold ball valve hand tight (Figure 11, Item 2). With wrenches (Figure 11, Item 3), tighten the quick disconnect fitting.

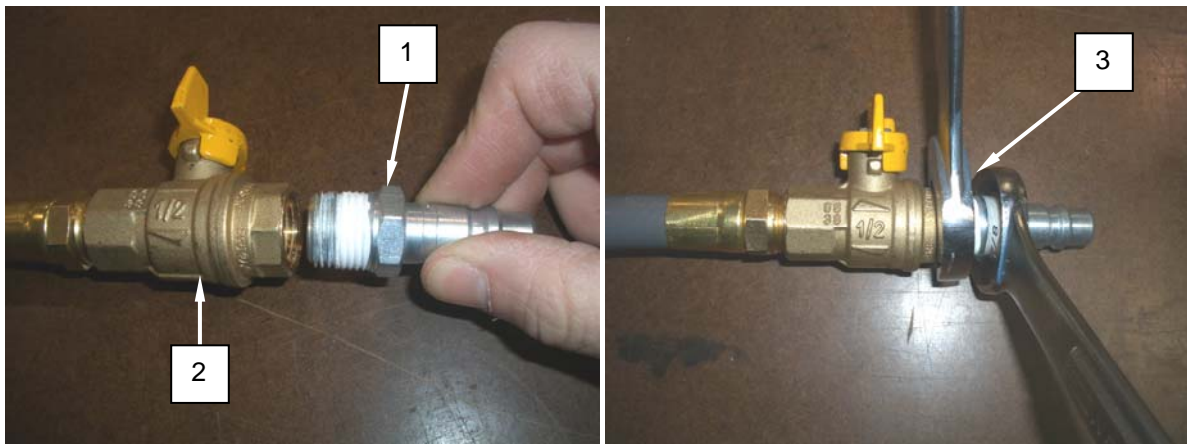


Figure 11. Install Quick Disconnect Fitting.

REPLACE - CONTINUED

5. Reconnect the manifold to the inflation system and airbeams by opening all eight airbeam ball valves at the exterior airbeam inflation valve access pockets (Figure 12, Item 1). Visually verify that each valve is in the open (on) position with the valve handle in-line with the valve body (Figure 12, Item 2).

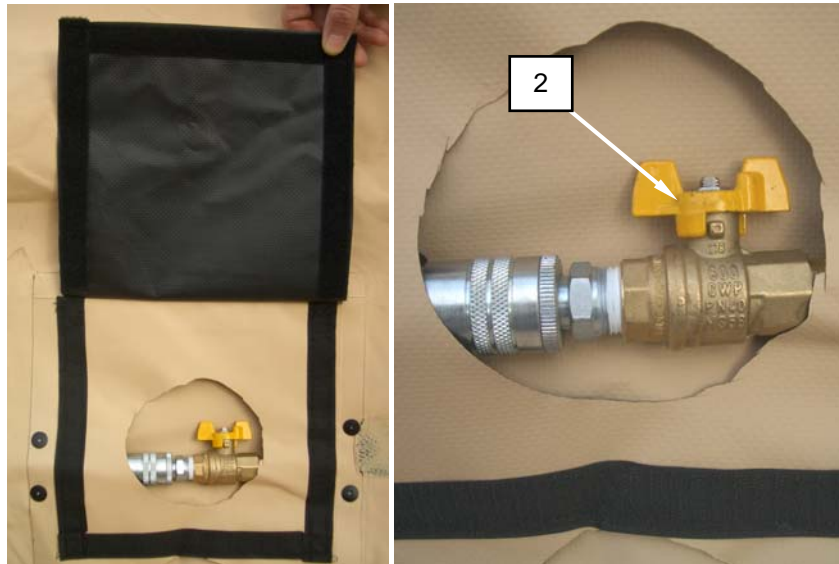
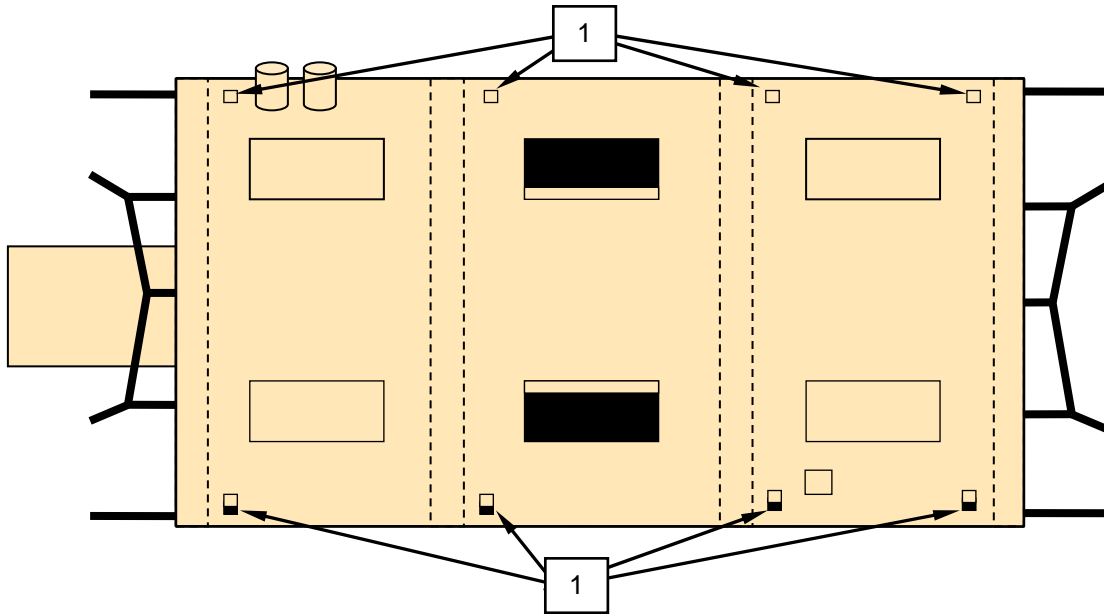


Figure 12. Open All Airbeam Inflation Valves.

REPLACE – CONTINUED

6. Inspect the replacement manifold ball valve (Figure 13) for leaks by applying soapy water solution to the assembly and look for bubbles when the air circuit is energized and connected to the completed circuit.
7. Turn the ball valve to the closed position and check for air bubbles at the inlet fitting (Figure 13, Item 1).
8. Open the ball valve and check for bubbles at the male quick disconnect fitting (Figure 13, Item 2).

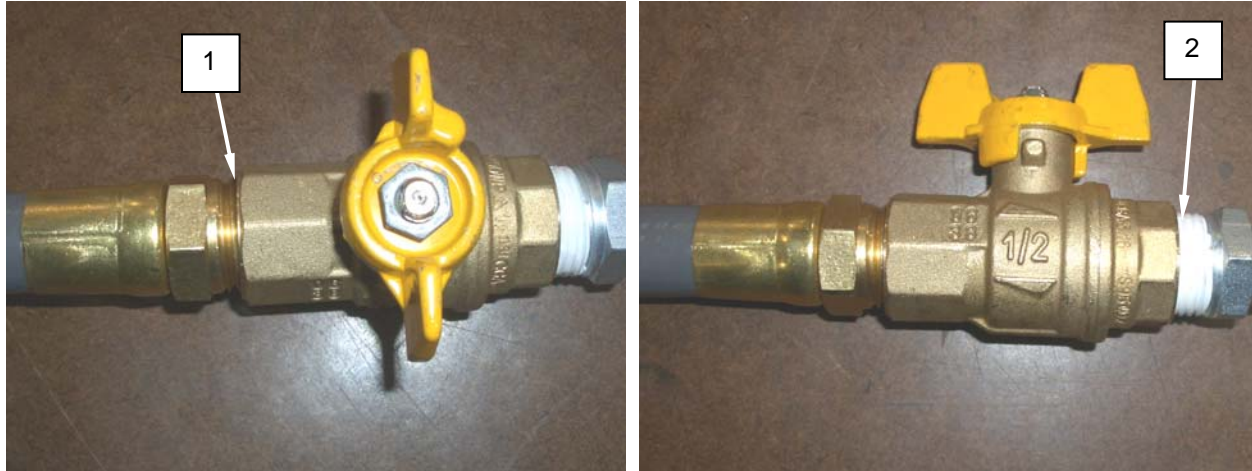


Figure 13. Replacement Manifold Ball Valve.

9. Restore liner hook and pile fastening tape connections.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE
MANIFOLD QUICK DISCONNECT FITTING
REPLACE

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanics (WP 0065, Item 7)

Personnel Required

Quartermaster and Chemical Equipment Repairer 63J (1)

Materials/PartsDetergent, General Purpose (WP 0064, Item 7)
Tape, Thread Sealing (WP 0064, Item 17)**Equipment Condition**

Shelter either deployed or struck

REPLACE**Remove Manifold Quick Disconnect Fitting****WARNING**

The shelter can deflate rapidly if the inflation system is operated incorrectly, which can cause attached lighting, power, or installed items to fall. Exercise great care when performing inflation maintenance tasks. Failure to do so may cause injury to personnel or damage to equipment.

NOTE

Ball Valves are open when the valve handle (Figure 1, Item 1) is in-line with the valve body, and closed when the valve handle (Figure 1, Item 2) is across the valve body.

1. At the ball valve attached to the manifold quick disconnect fitting to be removed, rotate the airbeam ball valve handle to the off position (Figure 1).

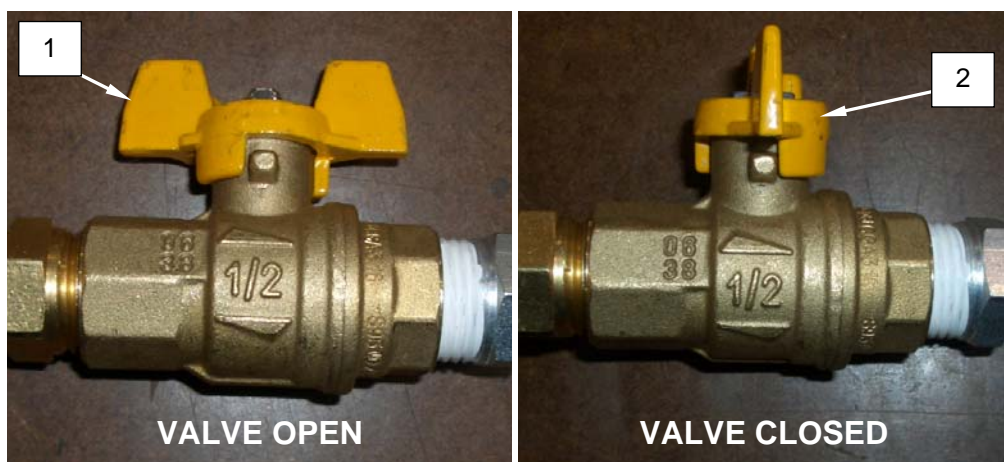


Figure 1. Ball Valve Handle Positions.

REPLACE - CONTINUED

2. Remove the quick disconnect fitting (Figure 2, Item 1) from the manifold ball valve (Figure 2, Item 2).

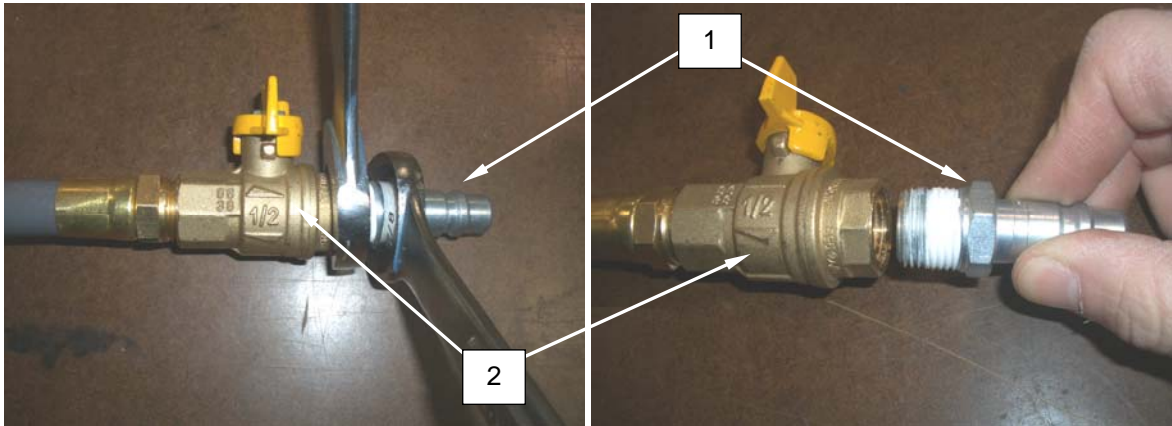


Figure 2. Remove Manifold Quick Disconnect Fitting.

END OF TASK**Install Replacement Manifold Quick Disconnect Fitting****CAUTION**

When using thread sealant tape, ensure that the end of the tape does not extend past the end of the threads into the open area inside the fitting. Failure to do so could cause pieces of the tape to get caught in the system and damage the equipment.

1. With thread sealant tape, wrap the threads (Figure 3, Item 1) of the manifold quick disconnect fitting from the quick disconnect end outwards, applying 2 or 3 turns of the thread sealant tape to the fitting.



Figure 3. Wrap Quick Disconnect Fitting Threads with Thread Sealant Tape.

REPLACE - CONTINUED

2. Install the quick disconnect fitting (Figure 4, Item 1) into the manifold ball valve hand tight (Figure 4, Item 2). With wrenches (Figure 4, Item 3), tighten the quick disconnect fitting.

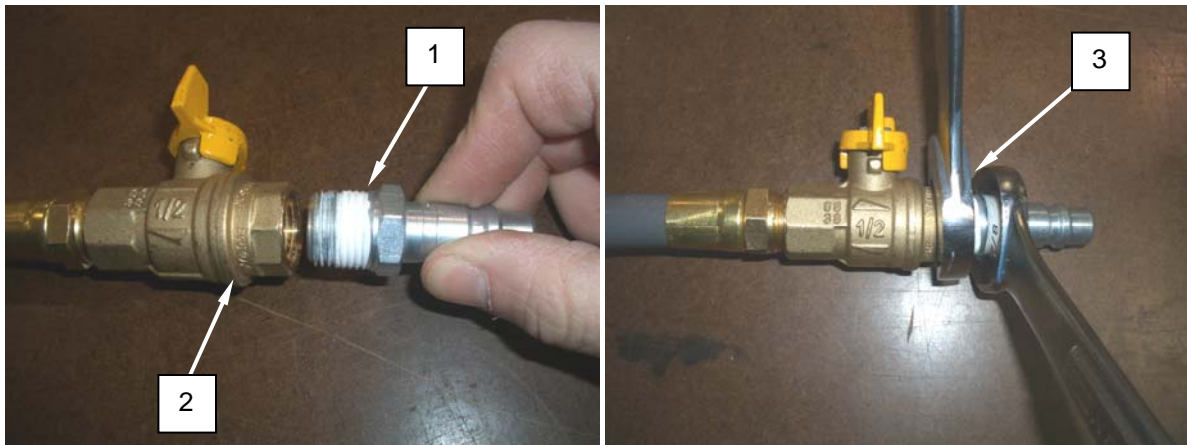


Figure 4. Install Quick Disconnect Fitting.

3. Inspect the replacement airbeam quick disconnect fitting (Figure 5, Item 1) for leaks by applying soapy water solution to the assembly and look for bubbles when the air circuit is energized and connected to the female fitting.



Figure 5. Replacement Manifold Quick Disconnect Fitting.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE

**AIR COMPRESSOR
REPAIR, REPLACE**

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanics (WP 0065, Item 7)

Personnel Required

Quartermaster Chemical and Equipment Repairer 63J (1)

Materials/Parts

Tape, Thread Sealing (WP 0064, Item 17)

References

WP 0014

Equipment Condition

Shelter either deployed or struck

REPAIR

NOTE

The air compressor is provided with non-Force Provider standalone TEMPER, Air-Supported shelter TYPE XLI through TYPE XLVII (Type 41 through 47).

Clean or Replace Check Valve

WARNING



The air compressor cycles on and off automatically when the power is on, with exposure to voltage sources, compressed air or moving parts. Ensure that electrical power is turned off, and air tank pressure is bled to zero prior to performing this repair procedure. Failure to do so may result in serious injury to personnel.

1. Set the air compressor ON/AUTO/OFF switch (Figure 1, Item 1) to the "OFF" (Down) position.

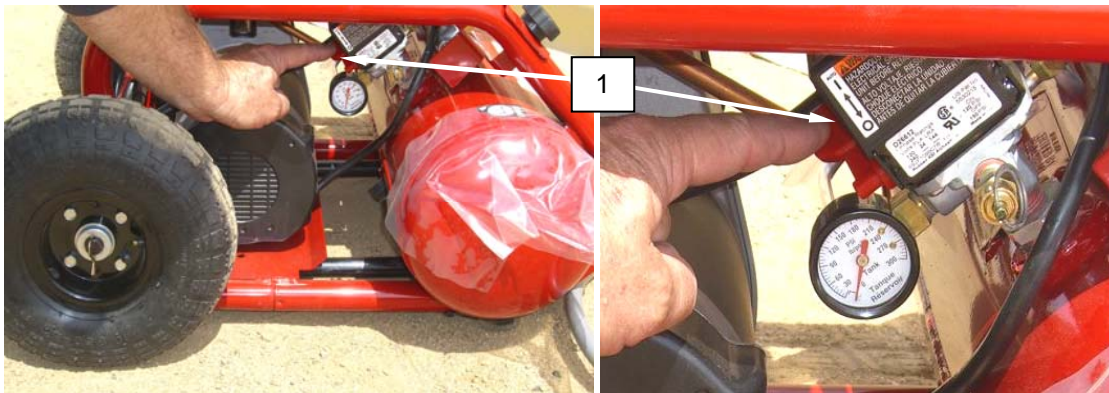


Figure 1. Air Compressor ON/AUTO/OFF Lever.

REPAIR - CONTINUED

2. Unplug the air compressor electrical power cord from the external power source.
3. Pull the regulator knob (Figure 2, Item 1) out, and turn counterclockwise to set the outlet pressure (Figure 2, Item 2) to zero.



Figure 2. Set Regulator Outlet Pressure to Zero.

4. Disconnect any hoses from the air compressor quick disconnect (QD) fittings (Figure 3, Item 1).



Figure 3. Disconnect Hoses from Air Compressor QD Fittings.

REPAIR - CONTINUED

5. Pull ring on safety valve (Figure 4, Item 1) allowing air to bleed from the tank until tank pressure gauge (Figure 4, Item 2) reads approximately 20 psi. Release safety valve ring.

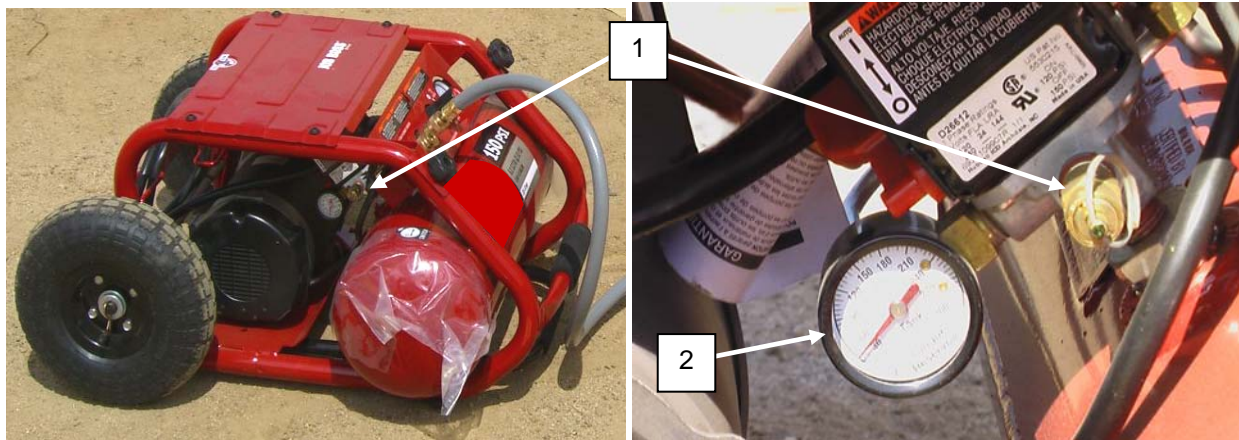


Figure 4. Air Compressor Safety Valve Ring.

6. On the bottom of the air compressor, open the drain valve (Figure 5, Item 1).

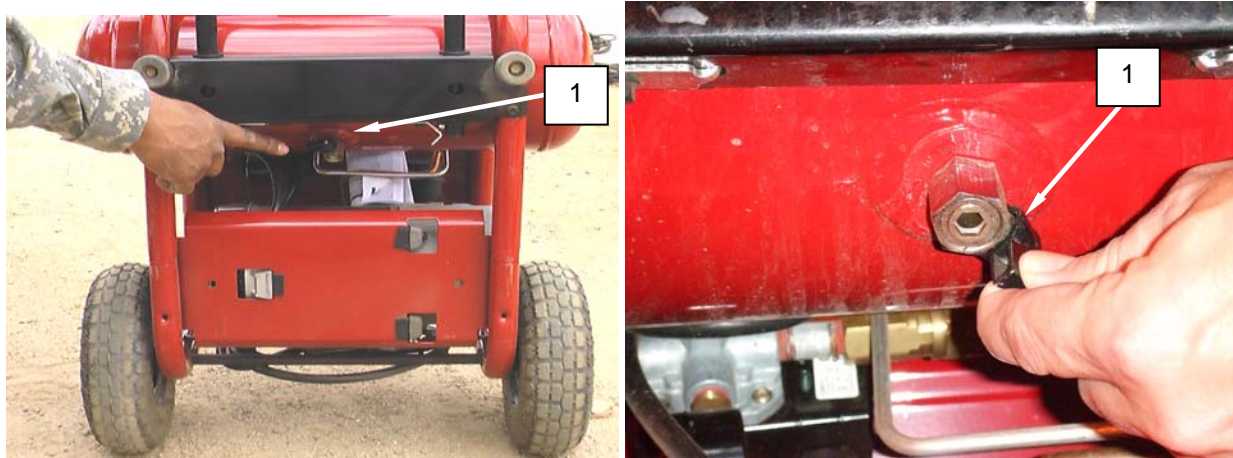


Figure 5. Air Tank Drain Valve.

REPAIR - CONTINUED

WARNING

The air compressor components have hot surfaces. Allow the air compressor to cool for 15 minutes prior to servicing. Failure to do so may cause burn injury to personnel.

7. Allow the air compressor to cool.

NOTE

Top panel may be removed to make parts more accessible.

8. Loosen outlet tube nut (Figure 6, Item 1) at air tank and pump. Carefully move outlet tube (Figure 6, Item 2) away from check valve (Figure 6, Item 3).

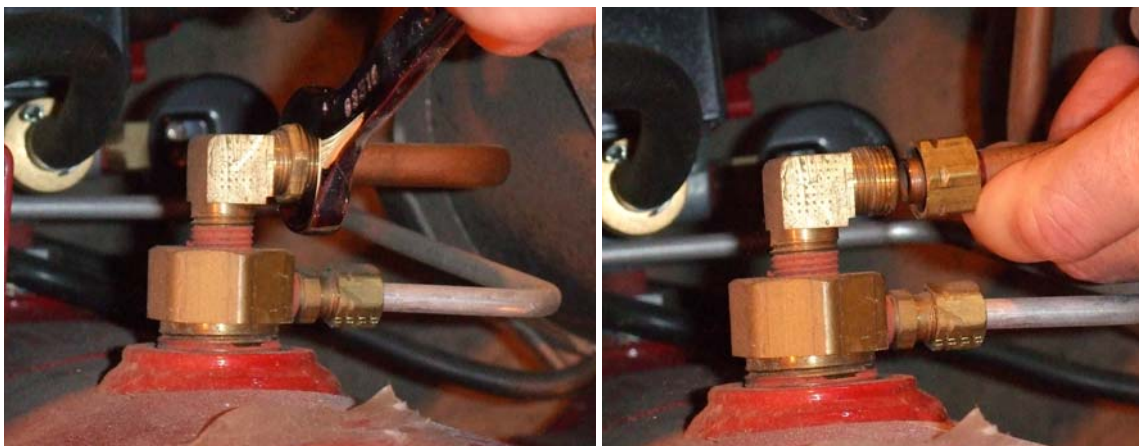
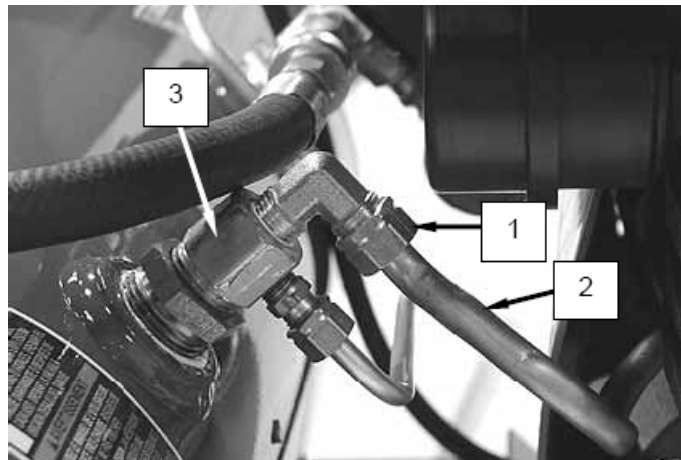


Figure 6. Remove Outlet Tube From Check Valve.

REPAIR - CONTINUED

9. Loosen pressure relief tube nut (Figure 7, Item 1) at the check valve side fitting (Figure 7, Item 2). Carefully move pressure relief tube (Figure 7, Item 3) away from check valve side fitting (Figure 7, Item 4).
10. Note the orientation for reassembly, and unscrew the check valve (Figure 7, Item 4) (turn counterclockwise) from the air tank.

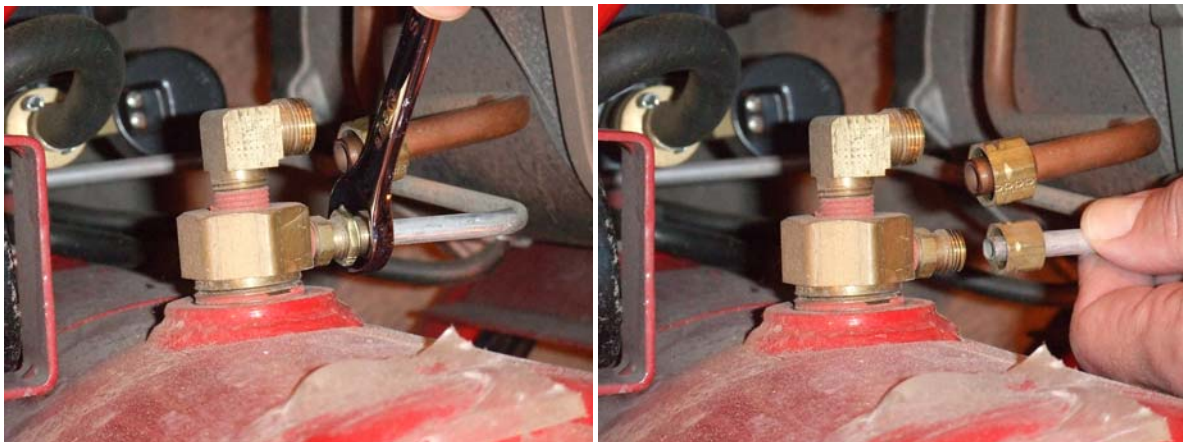
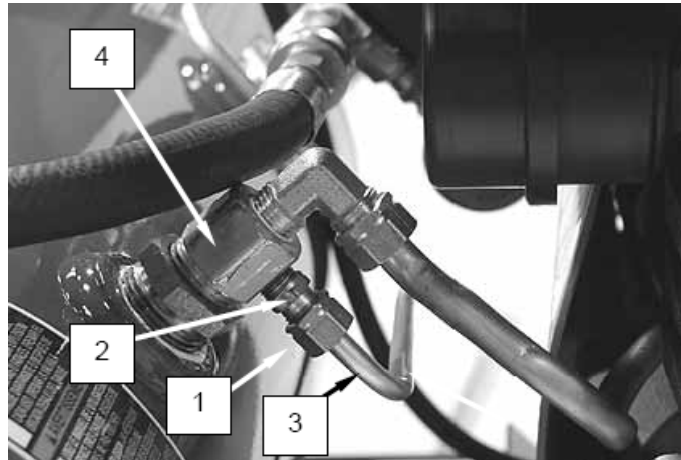


Figure 7. Remove Pressure Relief Tube.

REPAIR - CONTINUED

11. Note the orientation of the elbow fitting (Figure 8, Item 1) on the check valve (Figure 8, Item 2) for reassembly, and unscrew the elbow fitting from the top of the check valve (turn counterclockwise).

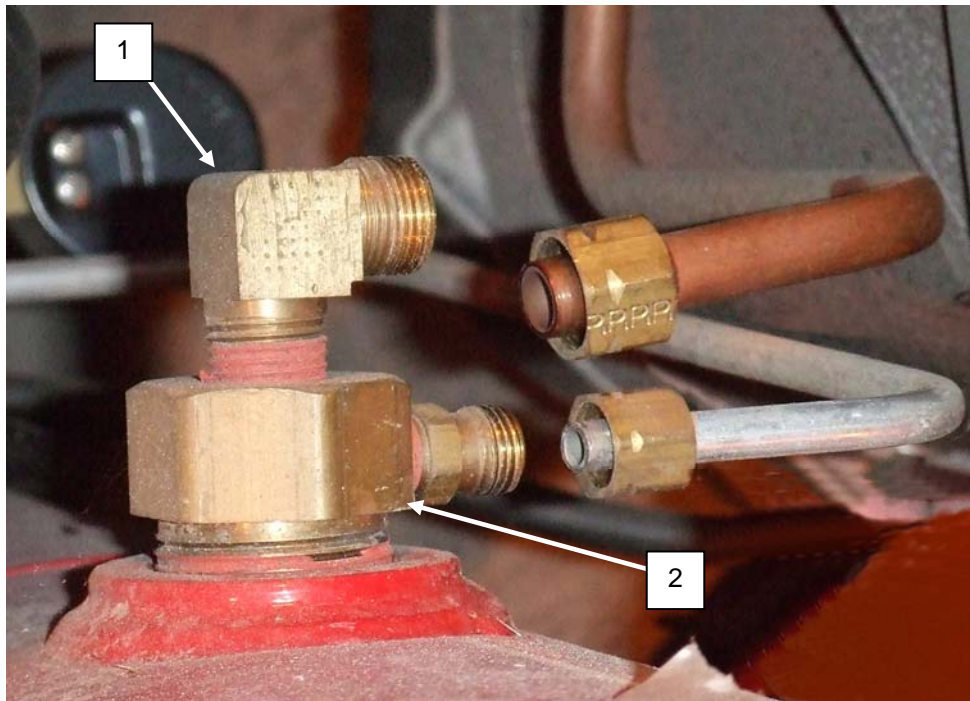


Figure 8. Replace or Clean Check Valve.

12. Using a suitable tool, carefully push the check valve disc up and down inside the check valve (Figure 9). The valve disc should move freely up and down on a spring which holds the valve disc in the closed position. If not, the check valve needs to be cleaned or replaced.

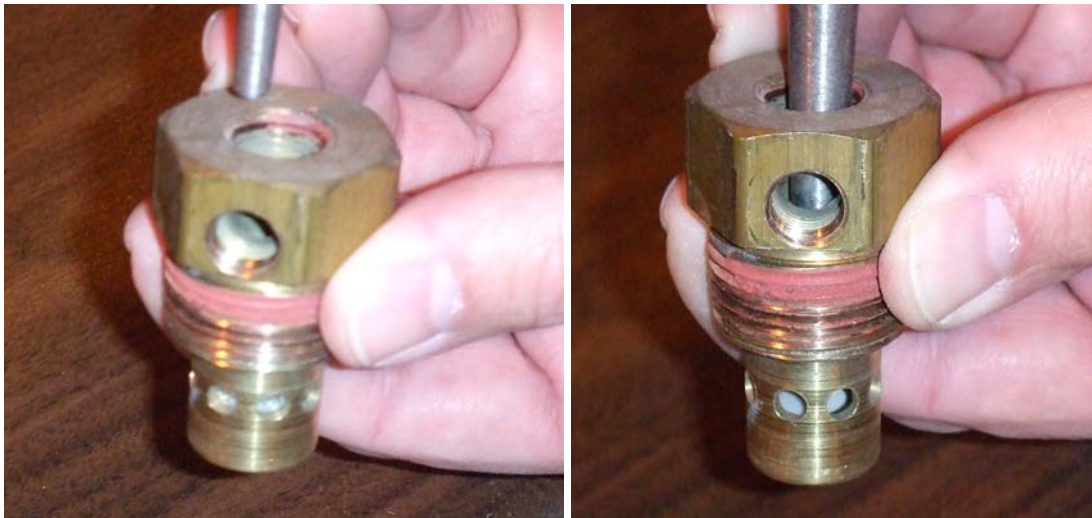


Figure 9. Verify Check Valve Disc Movement.

13. Clean or replace the check valve.

REPAIR - CONTINUED

14. Apply thread sealing tape to the check valve threads (Figure 10, Item 1).



Figure 10. Apply Sealant to Check Valve Threads.

15. Install the elbow fitting (Figure 11, Item 1) into the check valve (Figure 11, Item 2), and reinstall the check valve into the air tank (Figure 11, Item 3).

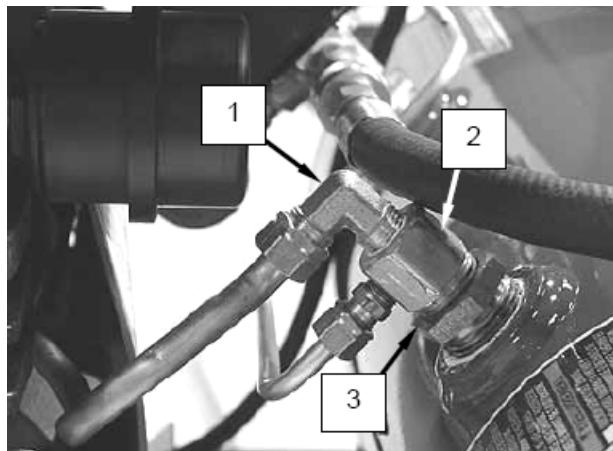


Figure 11. Reinstall Check Valve with Elbow Fitting.

16. Reinstall the pressure relief tube (Figure 12, Item 1) into the check valve side fitting (Figure 12, Item 2). Tighten the pressure relief tube nut (Figure 12, Item 3).

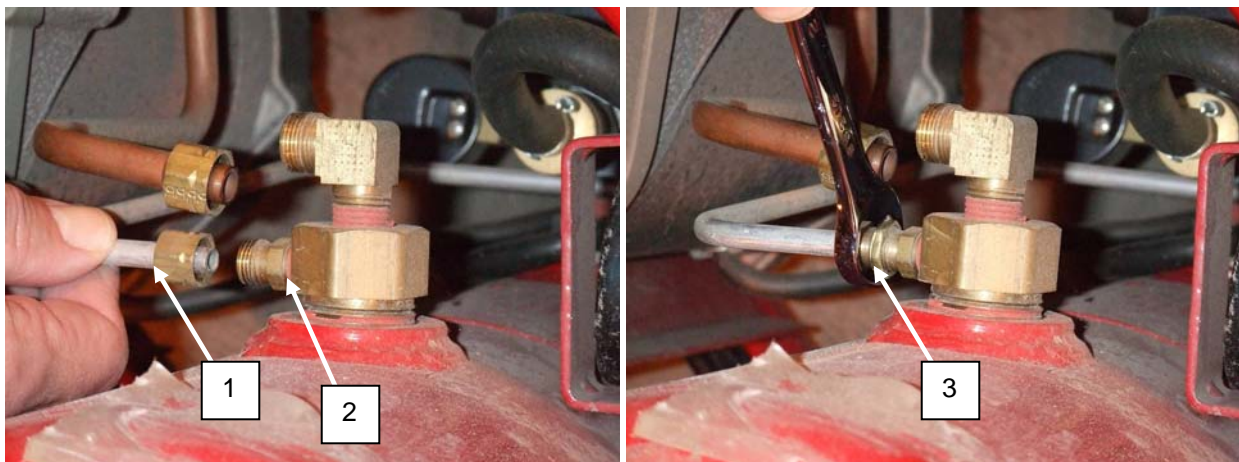


Figure 12. Install Pressure Relief Tube.

REPAIR - CONTINUED

17. Reinstall the outlet tube (Figure 13, Item 1) onto the check valve elbow fitting (Figure 13, Item 2). Tighten the outlet tube nut (Figure 13, Item 3).

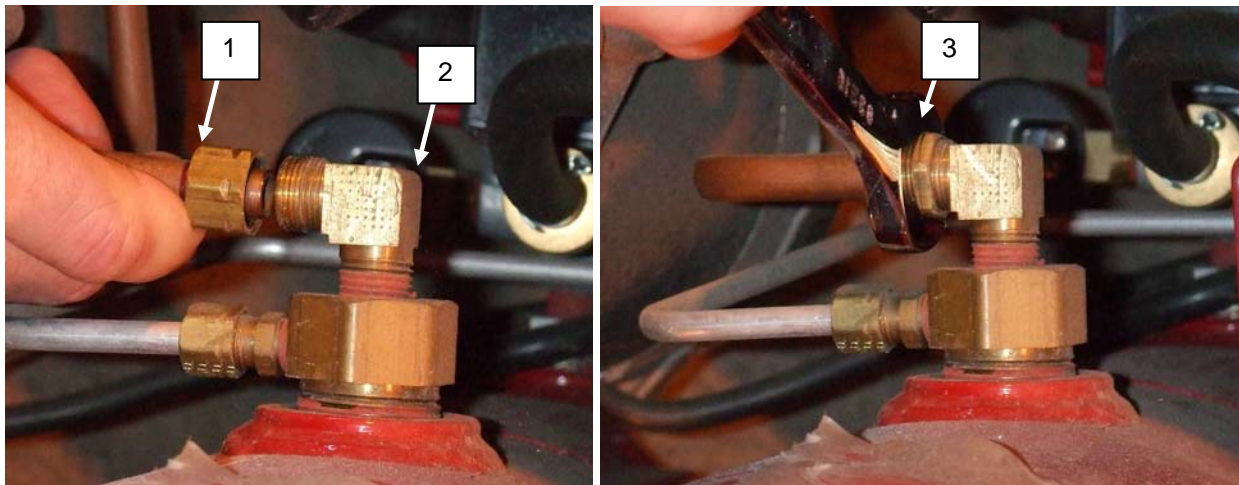


Figure 13. Install Outlet Tube onto Check Valve.

18. On the bottom of the air compressor, close the drain valve (Figure 14, Item 1).

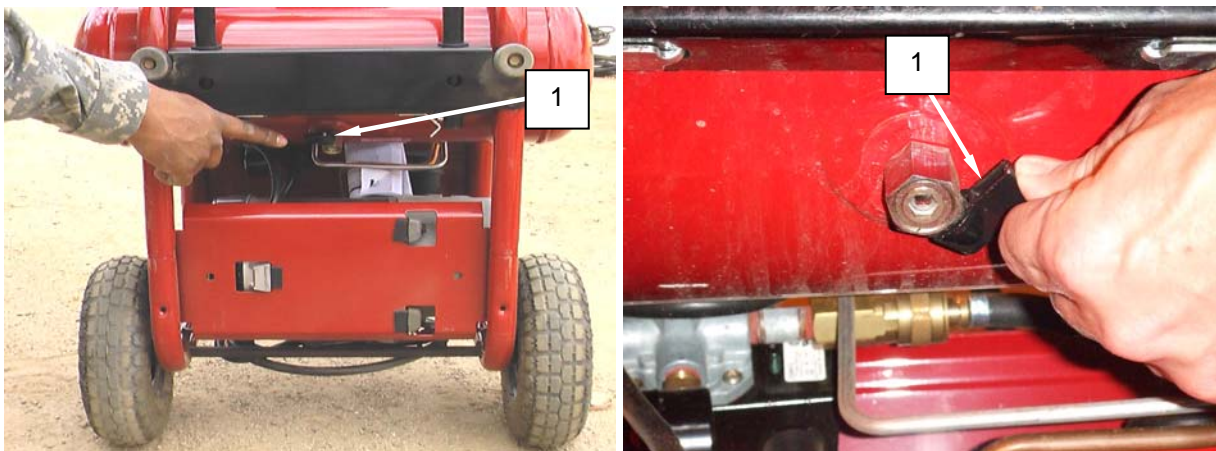


Figure 14. Close Air Tank Drain Valve.

19. Perform the air compressor break-in procedure IAW WP 0014.

END OF TASK**REPLACE**

If the air compressor cannot be repaired, obtain a serviceable item from stock.

END OF TASK**END OF WORK PACKAGE**

FIELD MAINTENANCE
AIR COMPRESSOR HOSE ASSEMBLY
SERVICE, REPAIR

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanics (WP 0065, Item 7)

Personnel Required

Quartermaster and Chemical Equipment Repairer 63J (1)

Materials/PartsDetergent General Purpose (WP 0064, Item 7)
Rag, Wiping (WP 0064, Item 12)**Equipment Condition**

Shelter either deployed or struck

SERVICE

Clean the component as needed to remove dirt or other debris. Use warm, soapy water and a rag. Dry the component completely.

REPAIR**WARNING**

The shelter can deflate rapidly if the inflation system is operated incorrectly, which can cause attached lighting, power or installed items to fall. Exercise great care when performing inflation maintenance tasks. Failure to do may cause injury to personnel or damage to equipment.

NOTE

As soon as it is identified that an air compressor hose requires replacement, isolate the shelter and retain the air pressure in the manifold and airbeams by shutting off the inflation hose ball valve.

1. At the manifold side of the shelter, close the inflation hose ball valve (Figure 1, Item 1) to isolate the shelter from the air compressor and air compressor hose assembly.

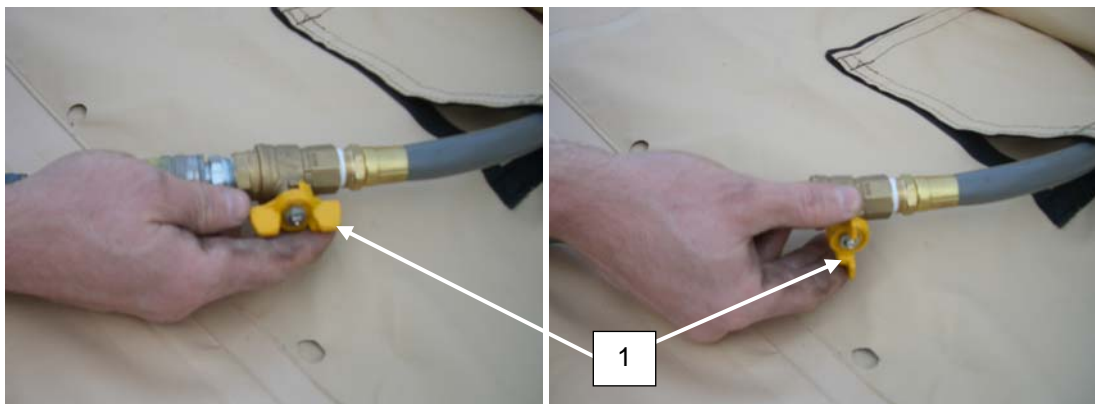


Figure 1. Isolate Shelter from Air Compressor.

REPAIR - CONTINUED

2. Turn off the compressor (Figure 2, Item 1)



Figure 2. Set Air Compressor On/Auto/Off Lever to OFF.

3. Disconnect the air compressor hose assembly quick disconnect (QD) fitting (Figure 3, Item 1).

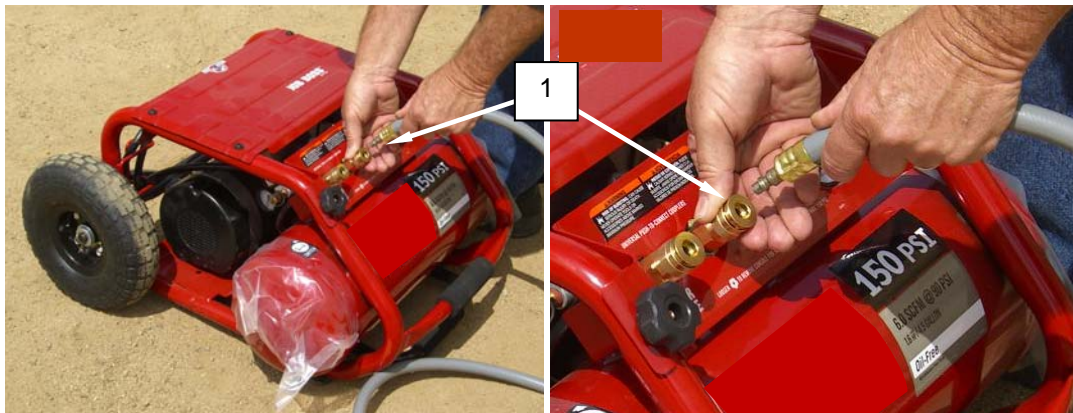


Figure 3. Disconnect Air Compressor Hose Assembly.

REPAIR - CONTINUED

4. At the inflation hose ball valve (Figure 4, Item 1), disconnect the air compressor hose assembly QD fitting (Figure 4, Item 2). Move the air compressor hose assembly to a suitable work surface.



Figure 4. Disconnect Air Compressor Hose from Inflation Hose.

5. Remove the quick disconnect fittings (Figure 5, Item 1) from the air hose (Figure 5, Item 2).

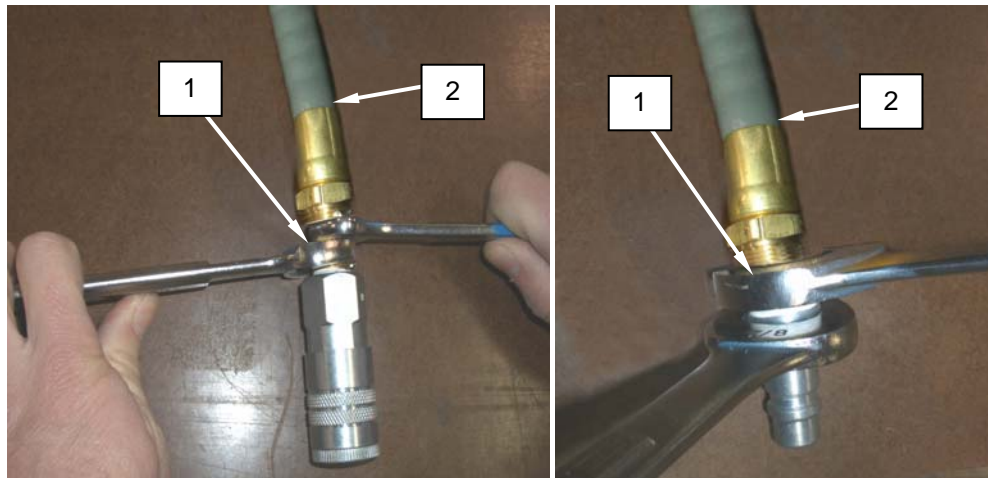


Figure 5. Remove Manifold Quick Disconnect Fittings.

6. Discard the removed quick disconnect fitting or air compressor hose.

REPAIR - CONTINUED

CAUTION

When using thread sealant tape, ensure that pieces of the tape do not get caught in the system and damage the equipment.

7. Remove any sealing tape residue from the threads of the air compressor hose or the quick disconnect fitting.
8. With thread sealant tape, wrap the threads of the air compressor hose or quick disconnect fitting from the threads outward, as applicable, applying 2 or 3 turns of the thread sealant tape to the threads (Figure 6).



Figure 6. Wrap Threads with Sealant Tape.

9. Connect the air compressor hose (Figure 7, Item 1) and quick disconnect fittings (Figure 7, Item 2) hand tight. With wrenches, tighten the quick disconnect fitting.

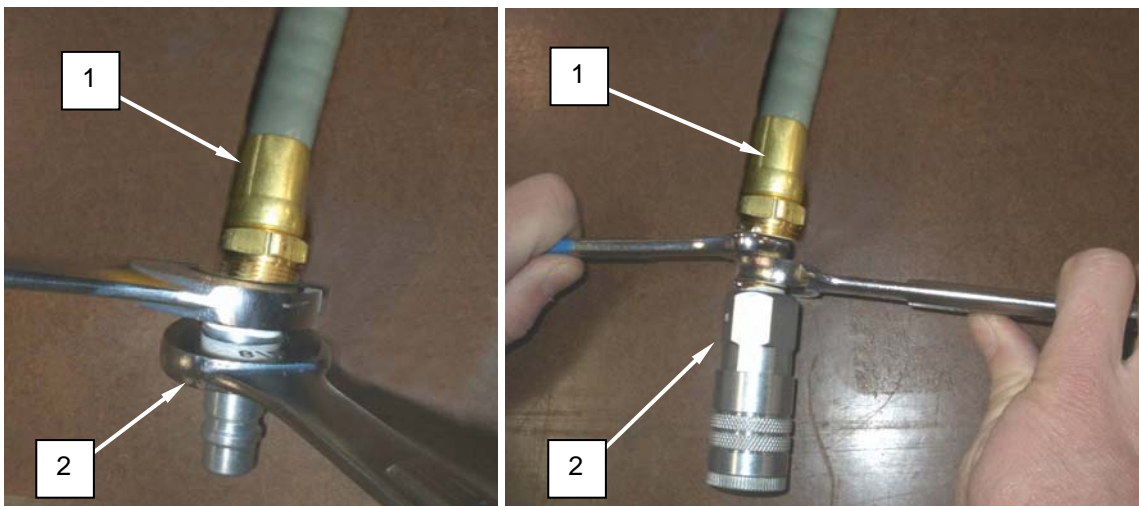


Figure 7. Connect Air Compressor Hose Assembly Fittings.

REPAIR - CONTINUED

10. At the inflation hose ball valve (Figure 8, Item 1), connect the female QD fitting of the air compressor hose assembly (Figure 8, Item 2).

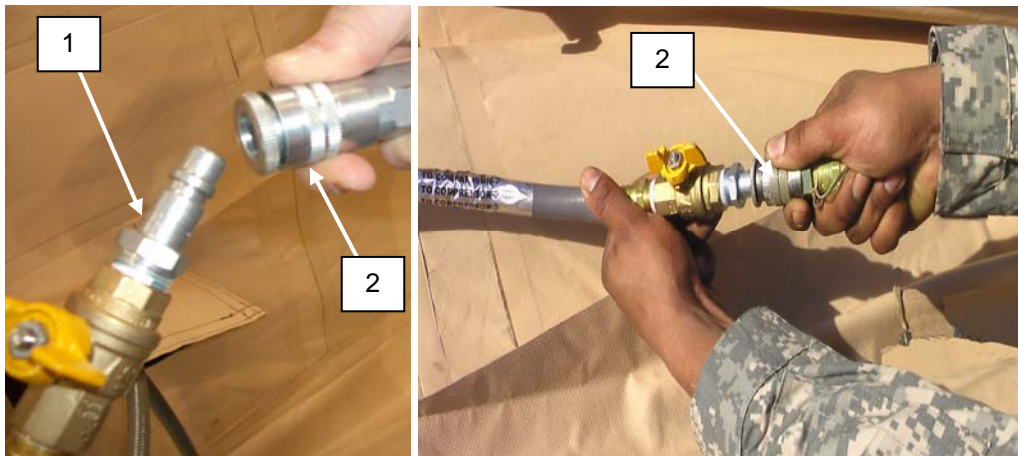


Figure 8. Connect Air Compressor Hose To Inflation Hose.

11. Connect the male QD fitting (Figure 9, Item 1) to the air compressor.

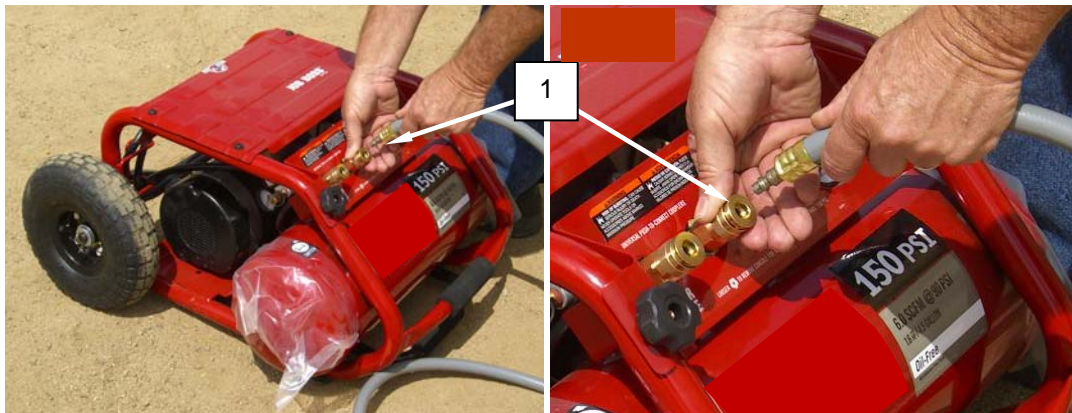


Figure 9. Connect Air Compressor Hose Assembly.

REPAIR - CONTINUED

12. At the air compressor, set the ON/AUTO/OFF lever (Figure 10, Item 1) to the "ON" position.



Figure 10. Set Air Compressor On/Auto/Off Lever to ON.

NOTE

Brush a soapy water solution on valves and fittings to identify leak locations.

13. Verify that the air compressor hose assembly performs without leaks.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE

PRESSURE GAUGE
REPLACE

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanics (WP 0065, Item 4)

Personnel Required

Quartermaster and Chemical Equipment
Repairer 63J (1)

Materials/Parts

Tape, Thread Sealing (WP 0064, Item 17)

Equipment Condition

Shelter either deployed or struck

REPLACE

1. To replace the pressure gauge (Figure 1, Item 1) from the female QD fitting (Figure 1, Item 2) hold the reduction fitting (Figure 1, Item 3) stationary with a suitable wrench.
2. Loosen and remove the pressure gauge (Figure 1, Item 1) using a suitable wrench.

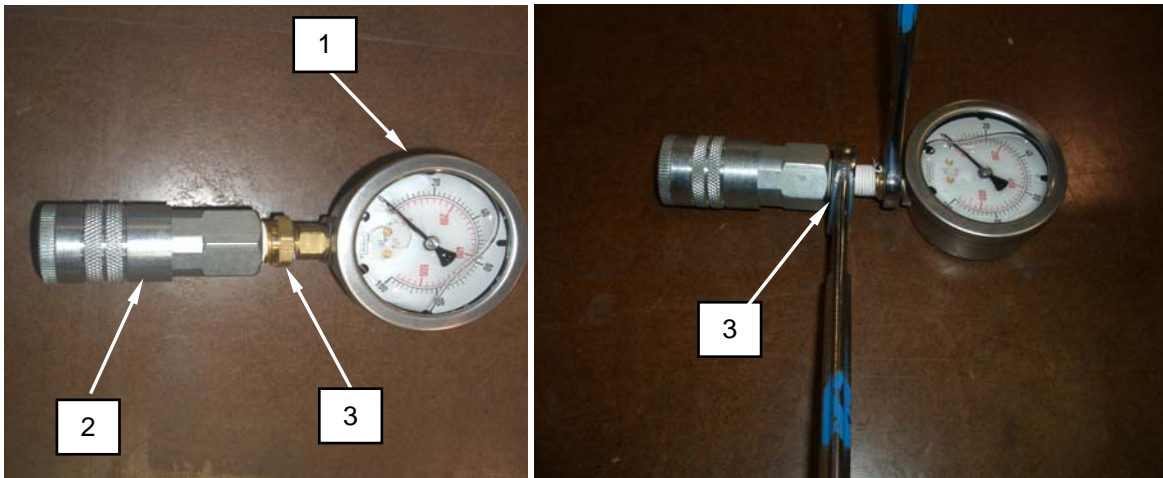


Figure 1. Loosen and Remove Pressure Gauge from Female QD Fitting.

REPLACE - CONTINUED

3. Remove any debris thread sealant from the threads (Figure 2, Item 1) inside the reduction fitting. If the quick disconnect fitting is serviceable, set it and the reduction fitting aside for reassembly.

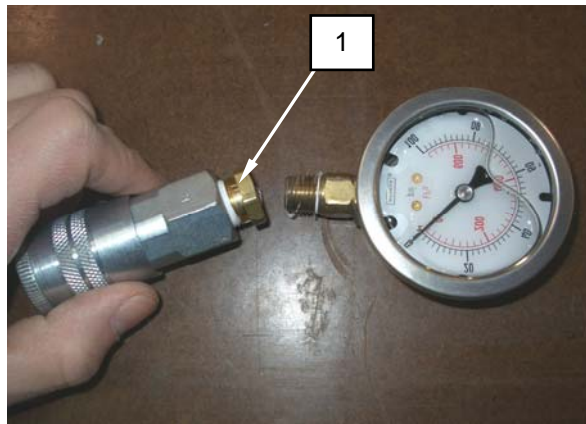


Figure 2. Remove Thread Sealant Tape Residue from the Reduction Fitting.

CAUTION

Ensure that the tape does not extend into the open area inside the fitting. Failure to do so could cause damage to the equipment.

4. With thread sealant tape, wrap the threads (Figure 3, Item 1) of the pressure gauge from the gauge outwards, applying 2 or 3 turns of the thread sealant tape to the threads.

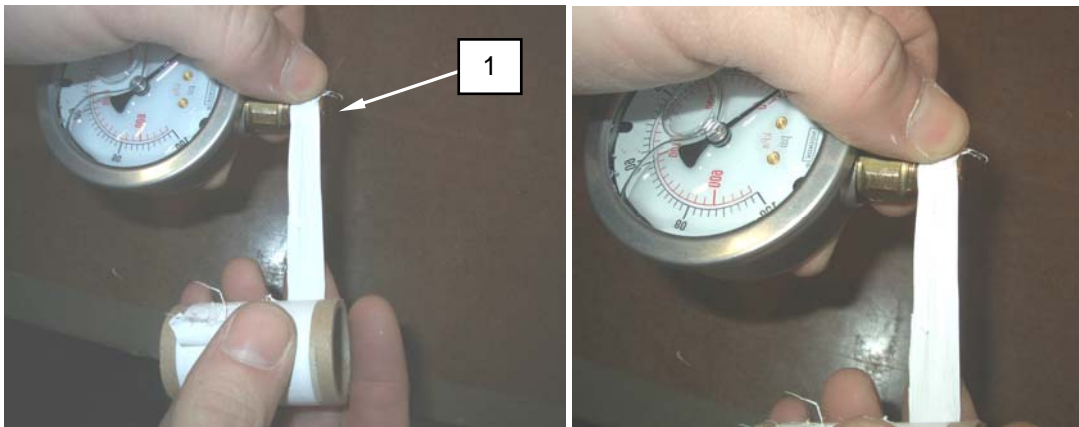


Figure 3. Wrap Pressure Gauge Fitting Threads with Thread Sealant Tape.

REPLACE - CONTINUED

5. Install the pressure gauge (Figure 4, Item 1) into the reduction fitting (Figure 4, Item 2) hand tight.
6. With suitable wrenches, hold the reduction fitting stationary (Figure 4, Item 2) and tighten the pressure gauge (Figure 4, Item 1).

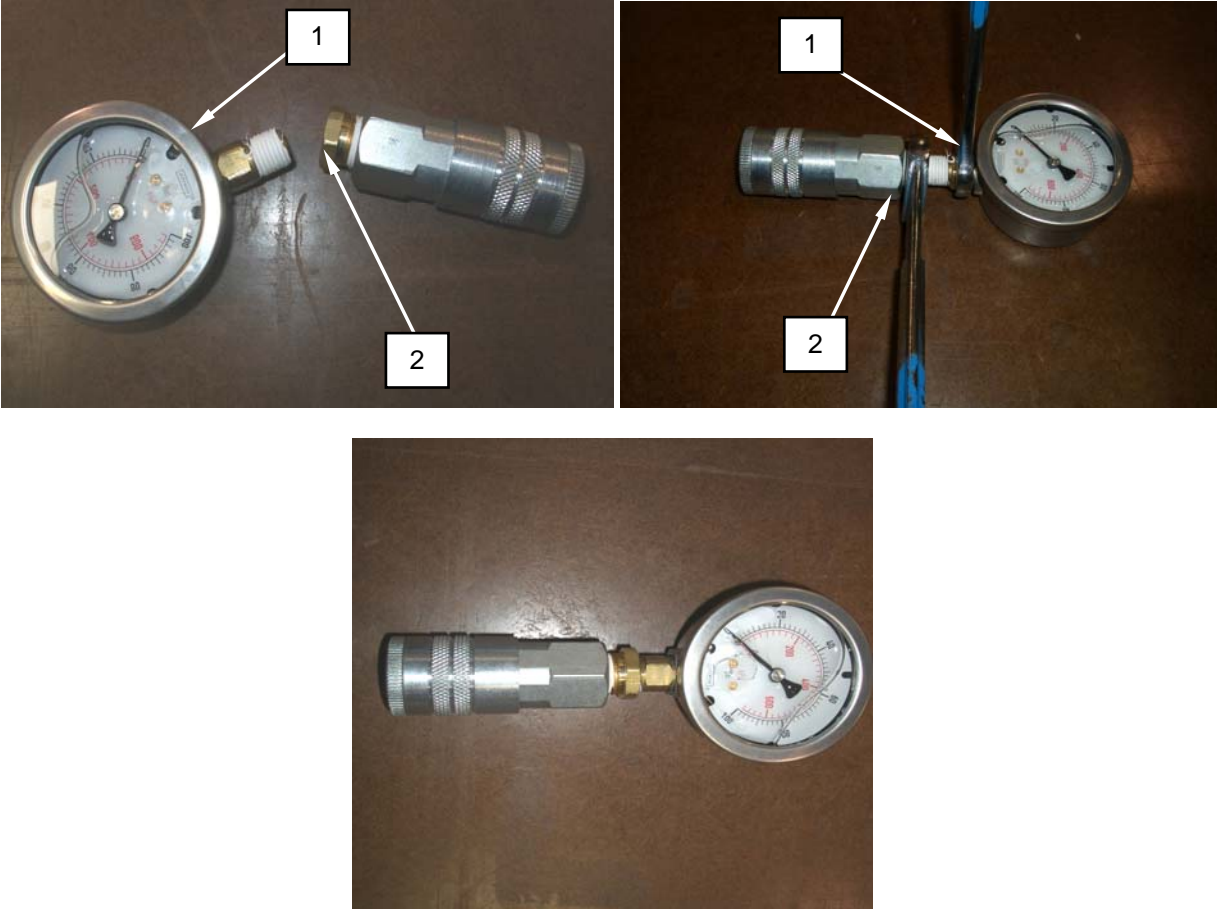


Figure 4. Installed Pressure Gauge.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE

**OUTLET ASSEMBLY
TEST, REPAIR, REPLACE**

INITIAL SETUP:

Tools and Special Tools

Tool Kit, General Mechanics (WP 0065, Item 4)

Personnel Required

Power Generation Equipment Repairer 52D (1)

Equipment Condition

Power disconnected for the Repair and Replace activities
Shelter either deployed or struck

TEST

There are two convenience outlet assemblies (Figure 1, Item 1) routed and installed between the shelter outer skin and liner. Open the liner hook and pile fasteners to access the outlet assembly components. Each left and right side outlet assembly is a power extension cord string with three outlet boxes per string. Each outlet box has four electrical power receptacles. The first outlet box has one Ground Fault Circuit Interrupter (GFCI) outlet installed in the first outlet position on the string, closest to the power distribution box.

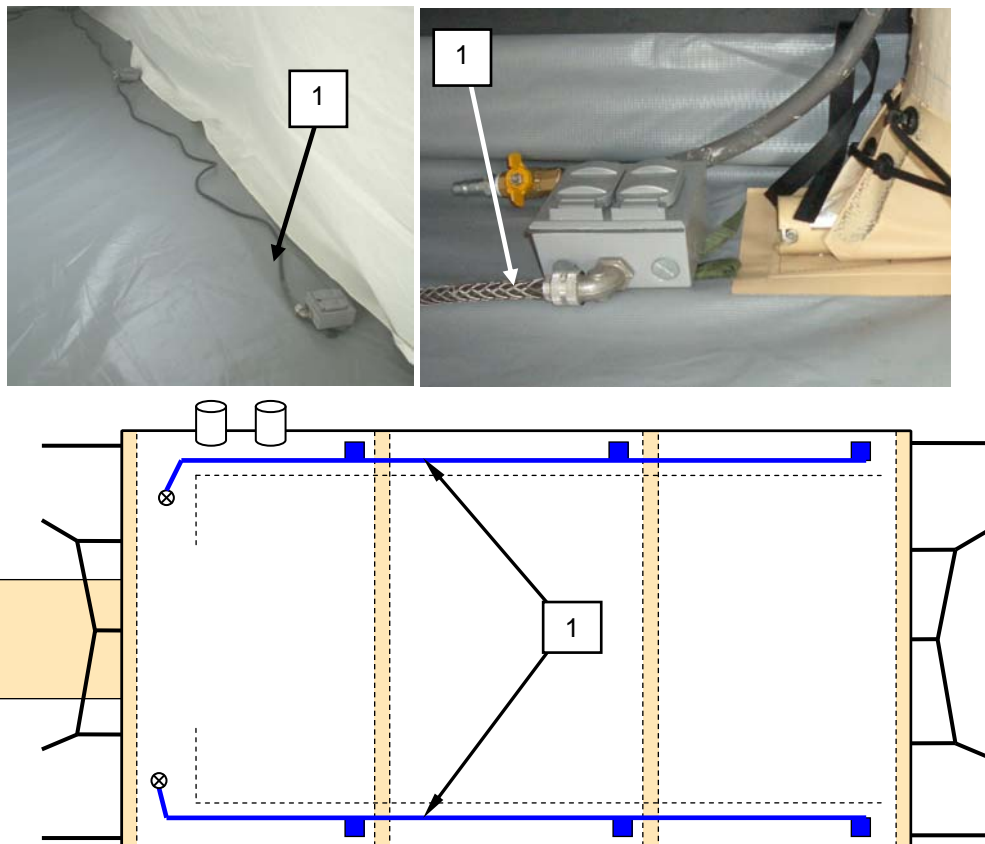


Figure 1. Outlet Assembly Locations.

TEST - CONTINUED

WARNING

Exercise extreme care with power distribution equipment. Voltages dangerous to life may be present. Failure to do so may cause death or serious injury by electrocution.

1. Turn off and disconnect any equipment connected to the outlet assembly under test.
2. On the front of the power distribution box, ensure that all four left and right OUTLETS 20A pushbutton circuit breakers (Figure 2, Item 1) are set to the IN (DOWN) position.

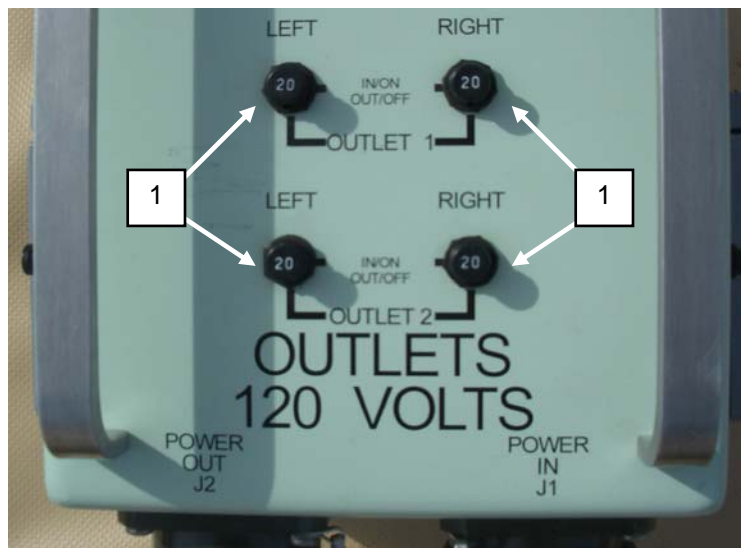


Figure 2. Outlet Circuit Breakers.

TEST - CONTINUED

3. With TEMPER, Air-Supported power applied, use a Multimeter to test all outlet assembly receptacles (Figure 3, Item 1) for 115 VAC.

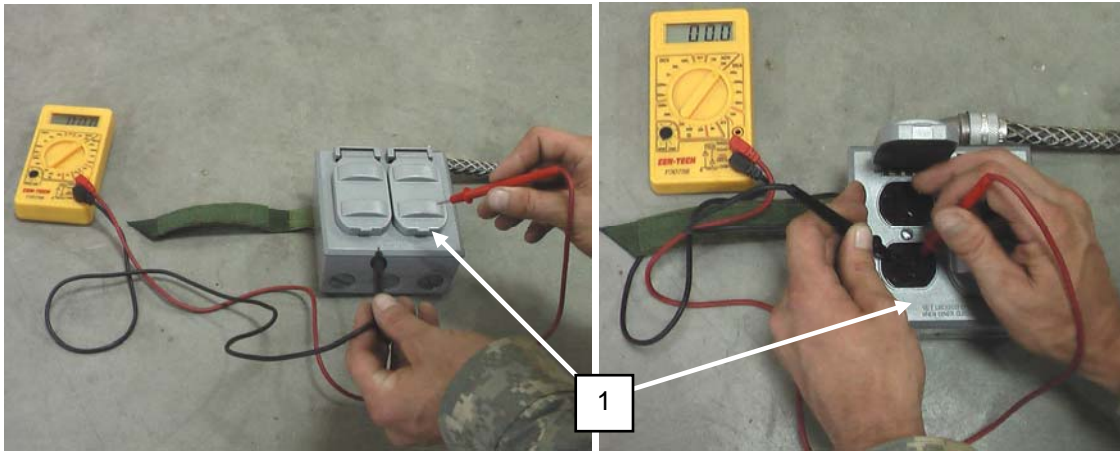


Figure 3. Outlet Assembly Voltage Test.

4. At the power distribution box, secure power to the outlet assembly under test by disconnecting the appropriate LEFT OUTLET or RIGHT OUTLET power distribution extension cable (Figure 4, Item 1).

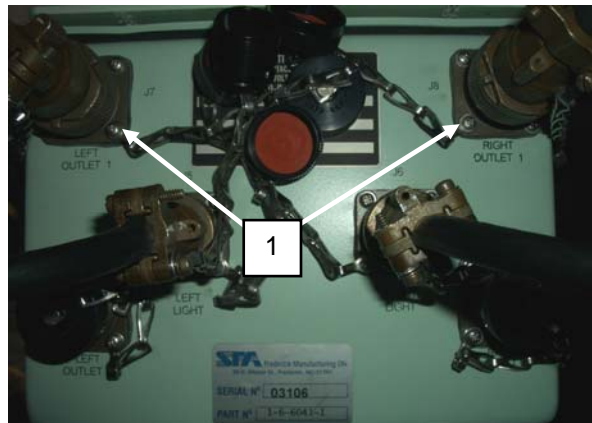


Figure 4. Remove Power Distribution Cable Plug.

TEST - CONTINUED

5. With power disconnected, use a Multimeter to test the outlet assembly power cord and all receptacles (Figure 5, Item 1) for continuity, shorts or grounds.

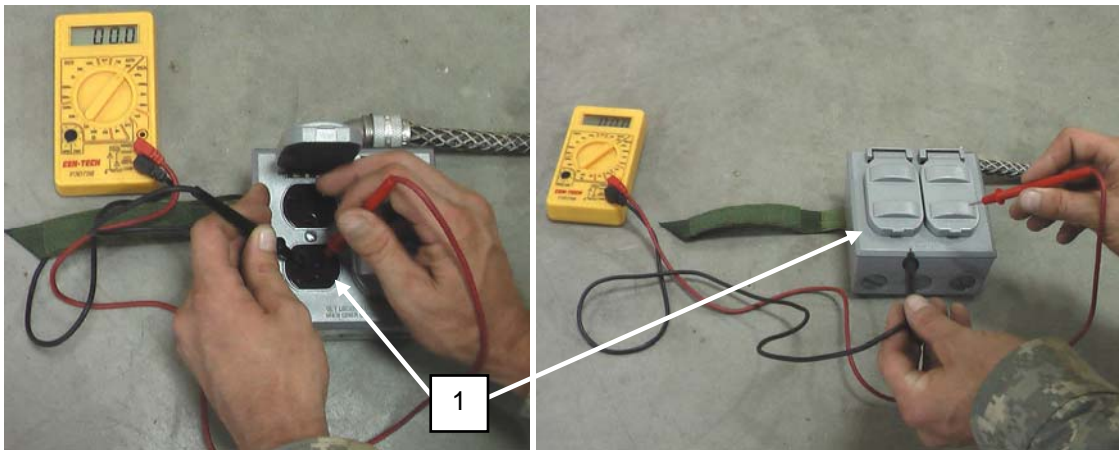


Figure 5. Outlet Continuity Test.

6. At the power distribution box, connect the power distribution cable plug (Figure 6, Item 1) for the outlet assembly being tested (LEFT OUTLET or RIGHT OUTLET respectively).

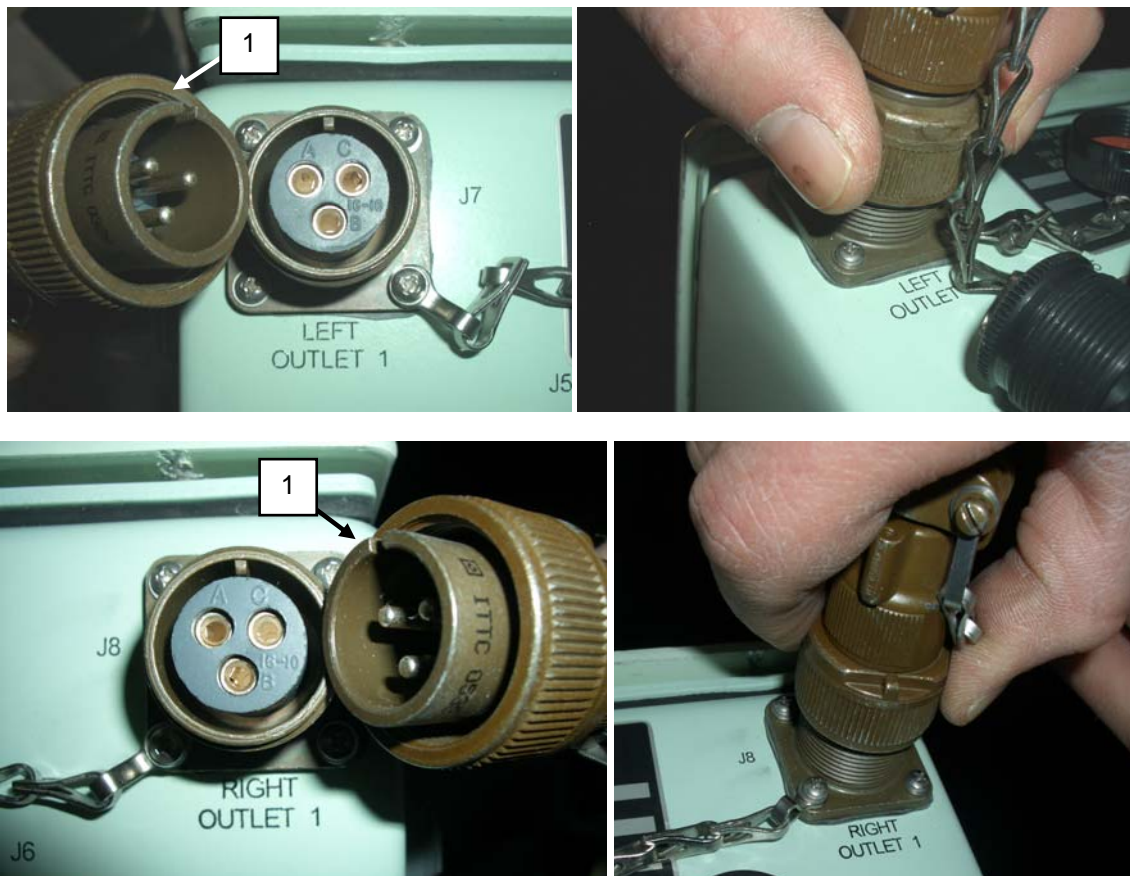


Figure 6. Connect Power Distribution Cable to Power Distribution Box.

END OF TASK

REPAIR**Replace Ground Fault Circuit Interrupter (GFCI) Outlet Receptacle****WARNING**

Exercise extreme care with power distribution equipment. Voltages dangerous to life may be present. Failure to do so may cause death or serious injury by electrocution.

7. Turn off and disconnect any equipment connected to the outlet assembly to be replaced.
8. At the power distribution box, disconnect the appropriate LEFT OUTLET or RIGHT OUTLET power distribution extension cable (Figure 7, Item 1).

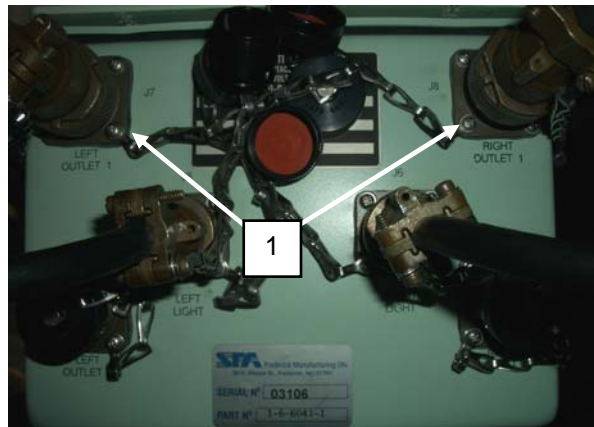


Figure 7. Remove Power Distribution Cable Plug.

9. Unscrew and remove the outlet cover plate (Figure 8, Item 1) from the receptacle box.

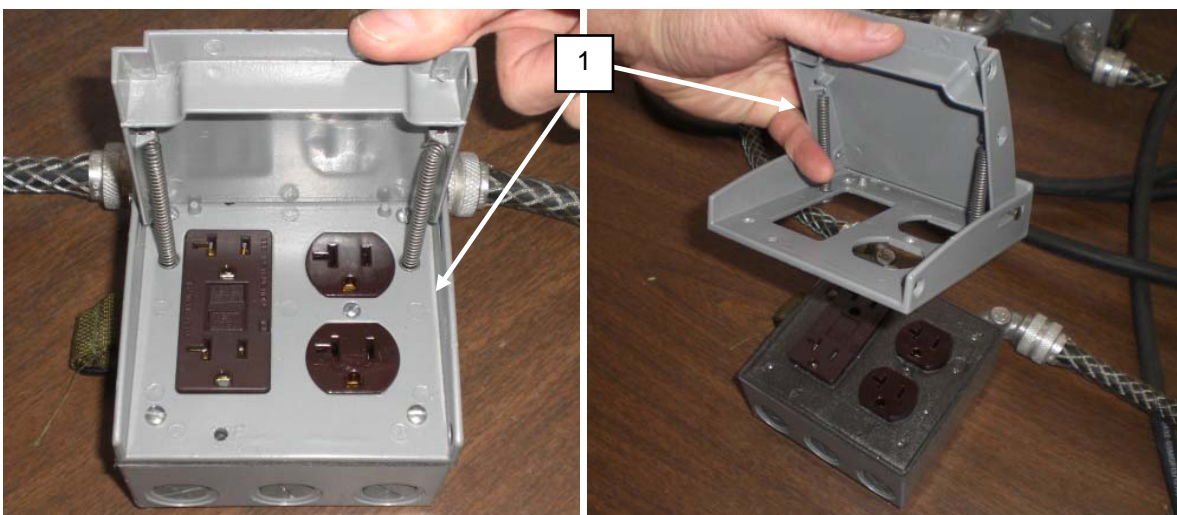


Figure 8. Remove Outlet Box Cover Plate.

REPAIR - CONTINUED

10. Remove the waterproof gasket (Figure 9, Item 1) from the outlet receptacle box.

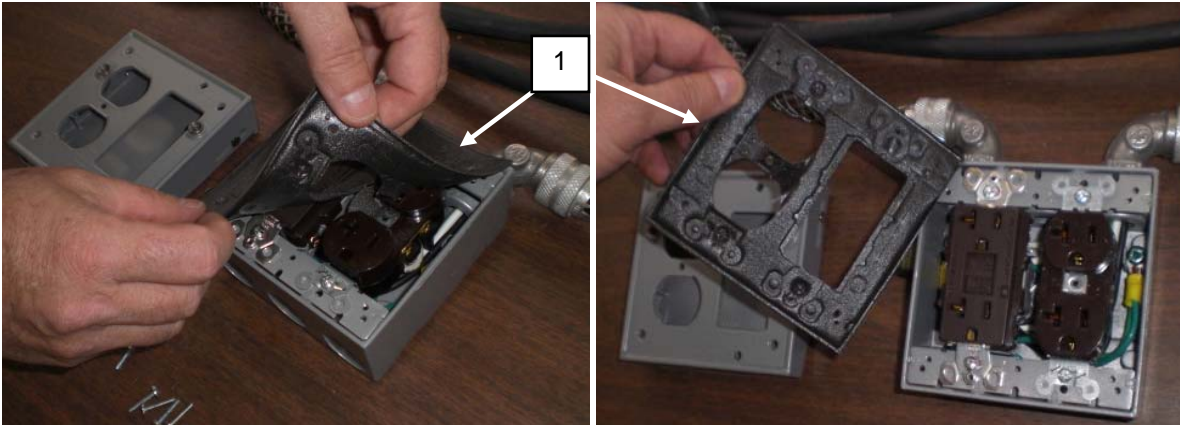


Figure 9. Remove Gasket from Outlet Box.

11. Unscrew and lift the GFCI receptacle (Figure 10, Item 1) to be replaced, free of the receptacle box to allow access to the electrical wires on the side of the receptacle.

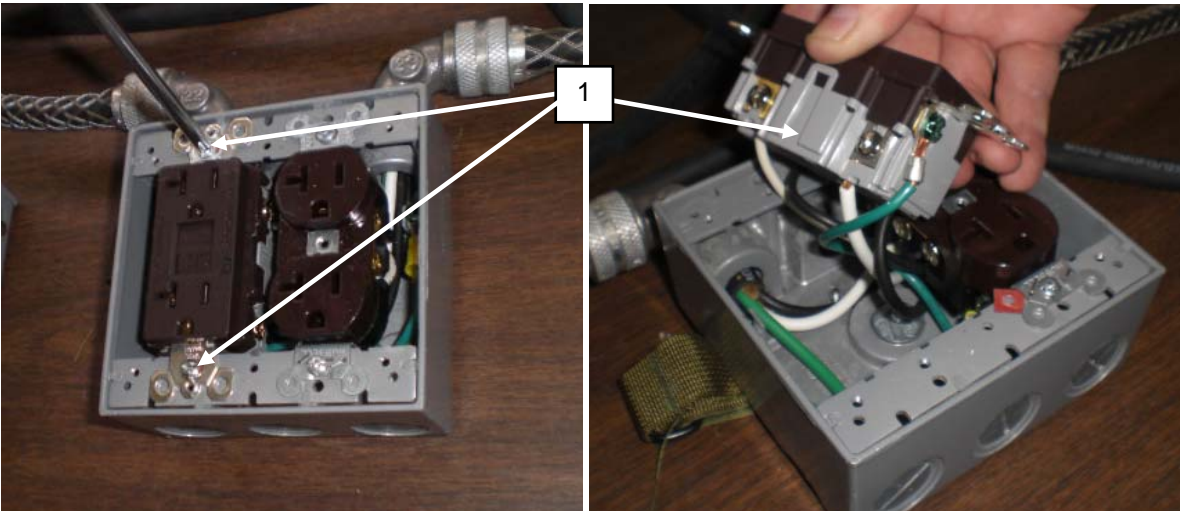


Figure 10. Unscrew Receptacle.

REPAIR - CONTINUED

12. Exercising great care to match wire to wire, transfer the electrical wires (Figure 11, Item 1) from the receptacle being replaced to the replacement receptacle.

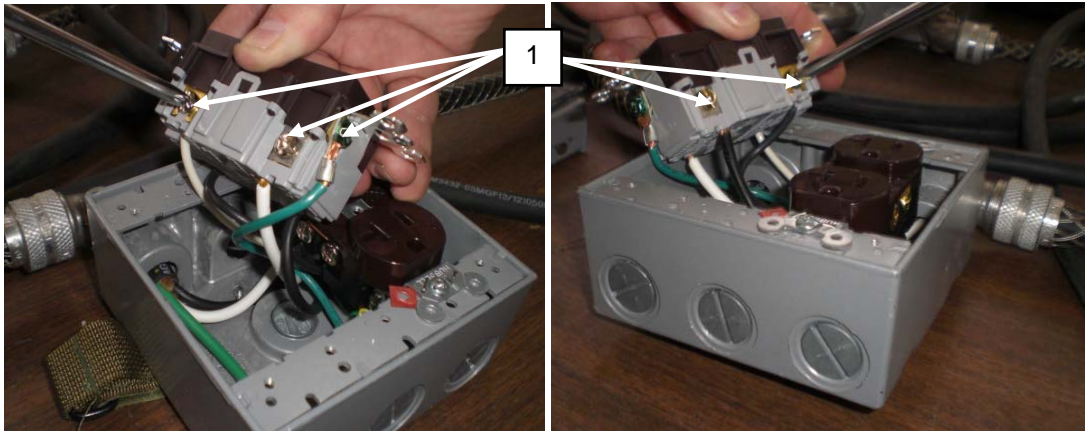


Figure 11. Transfer Electrical Wires to Replacement Receptacle.

13. Insert the replacement receptacle into the receptacle box (Figure 12, Item 1), and tighten the screws to secure it into place. Ensure that the electrical wires are not pinched.

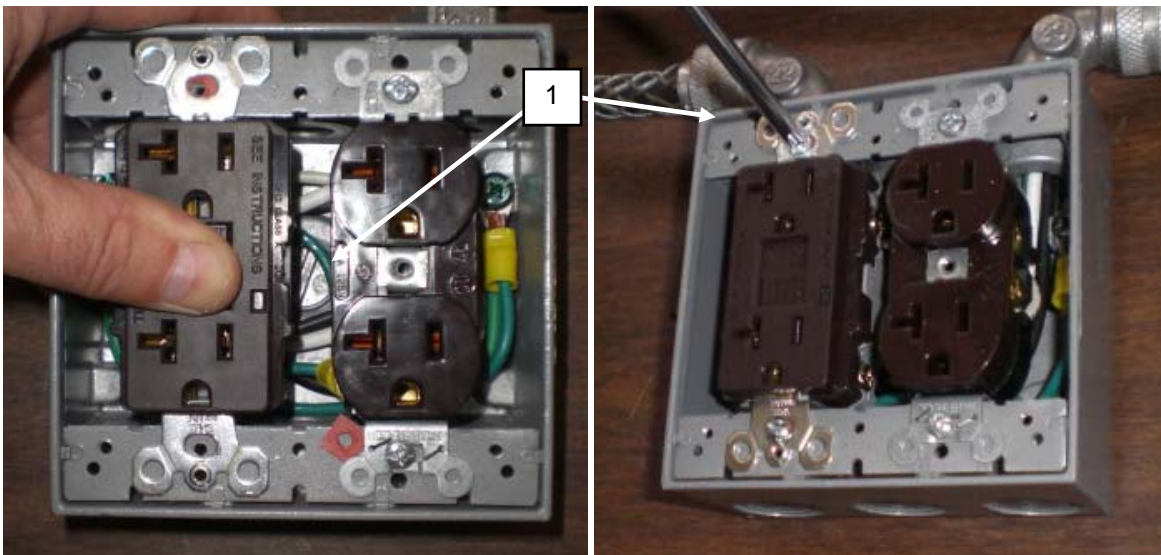


Figure 12. Install Receptacle.

REPAIR - CONTINUED

14. Fit the waterproof gasket (Figure 13, Item 1) onto the receptacle box frame aligned with the cover plate screw holes and frame edges.

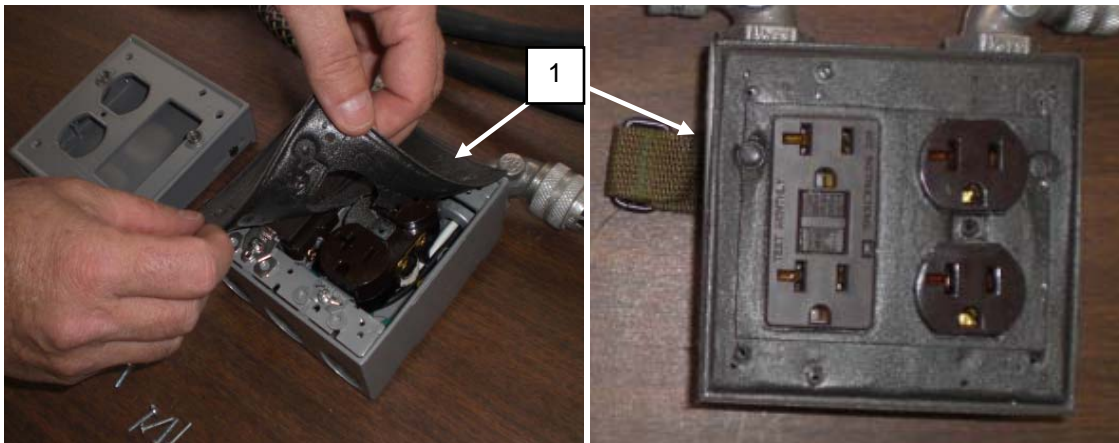


Figure 13. Install Gasket on Outlet Box.

15. Install the outlet cover plate (Figure 14, Item 1) onto the receptacle box and tighten the screws. Ensure that the waterproof gasket is properly fitted.

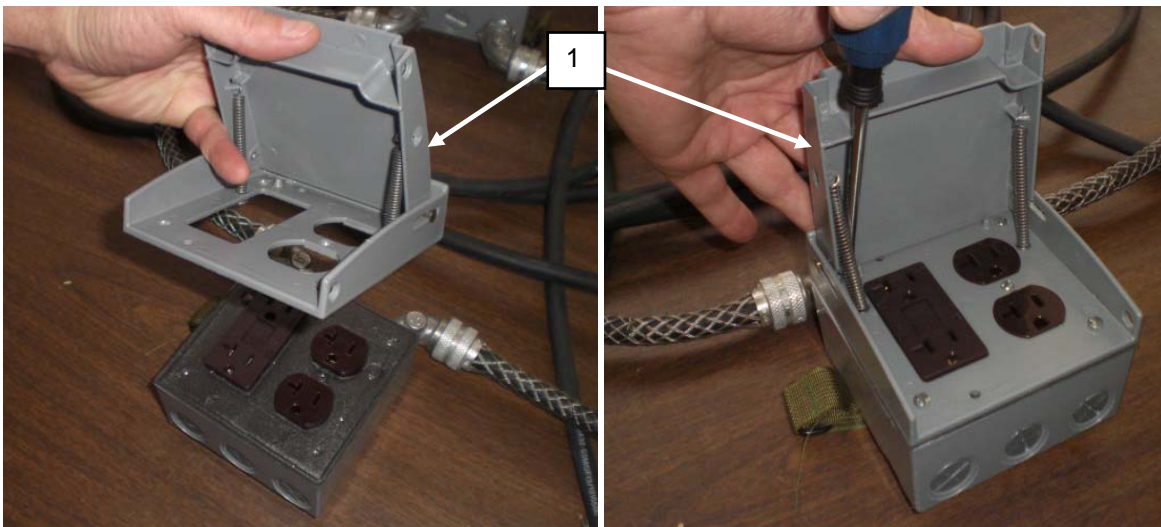


Figure 14. Install Outlet Box Cover Plate.

16. Test the outlet receptacle for continuity, shorts and grounds IAW the 'Test' paragraphs of this Work Package.

REPAIR - CONTINUED

WARNING

Fully seat and tighten the plug into the jack for reliable electrical connection. Failure to do so could result in an electrically unsafe condition that could cause serious injury or death from electrocution or damage to equipment.

17. At the power distribution box, connect the power distribution cable plug (Figure 15, Item 1) for the outlet assembly being repaired (LEFT OUTLET or RIGHT OUTLET respectively).

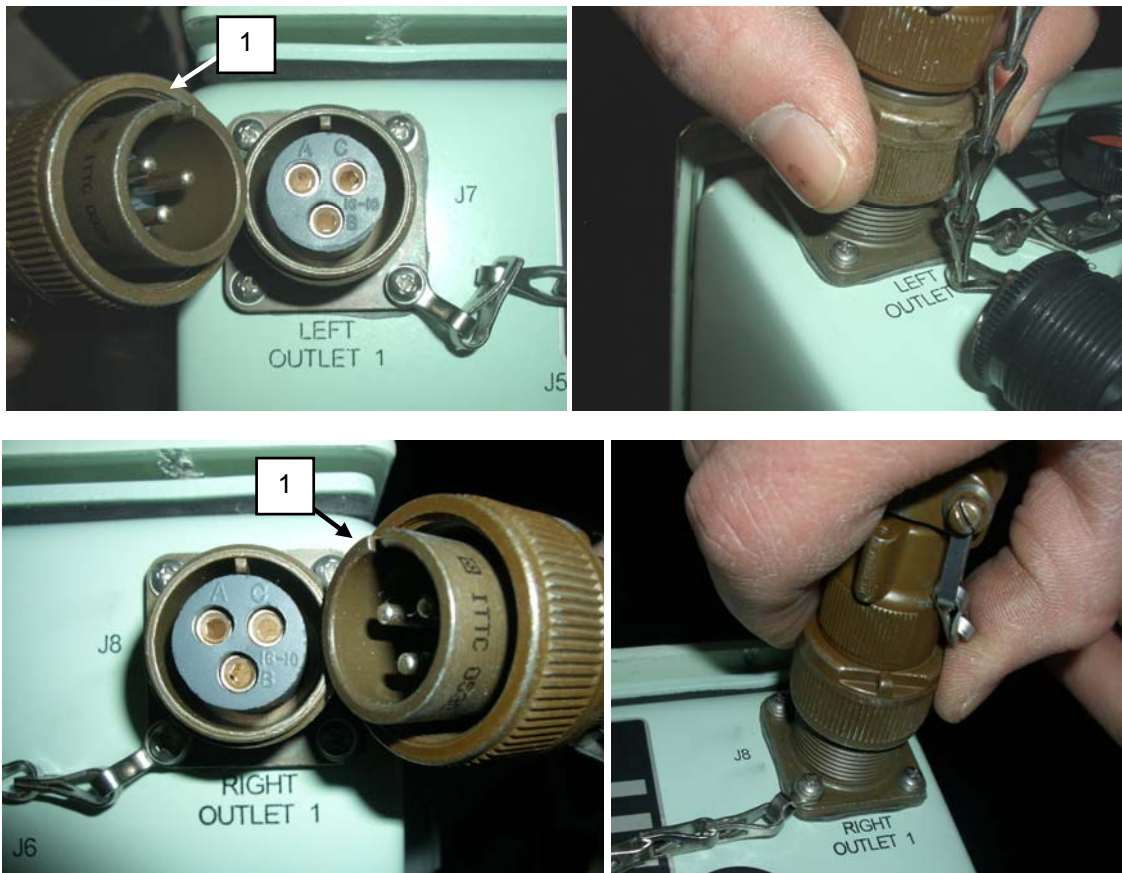


Figure 15. Connect Power Distribution Cable to Power Distribution Box.

18. Test the outlet receptacle for proper voltage IAW the section of this Work Package entitled 'Test.'

END OF TASK

REPAIR - CONTINUED**Replace Non-Ground Fault Circuit Interrupter (GFCI) Outlet Receptacle****WARNING**

Exercise extreme care with power distribution equipment. Voltages dangerous to life may be present. Failure to do so may cause death or serious injury by electrocution.

1. Turn off and disconnect any equipment connected to the outlet assembly being replaced.
2. At the power distribution box, disconnect the appropriate LEFT OUTLET or RIGHT OUTLET power distribution extension cable (Figure 16, Item 1).

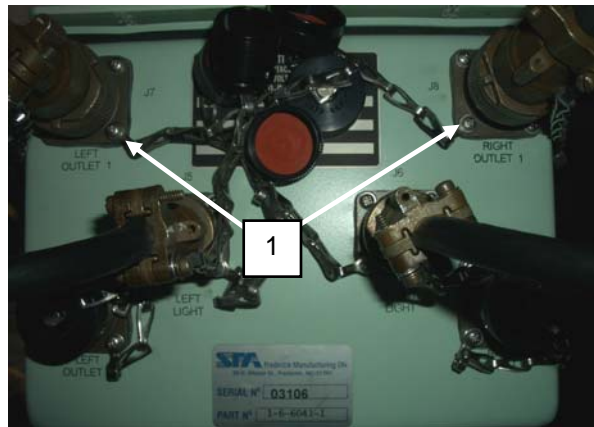


Figure 16. Remove Power Distribution Cable Plug.

3. Unscrew and remove the outlet cover plate (Figure 17, Item 1) from the receptacle box.

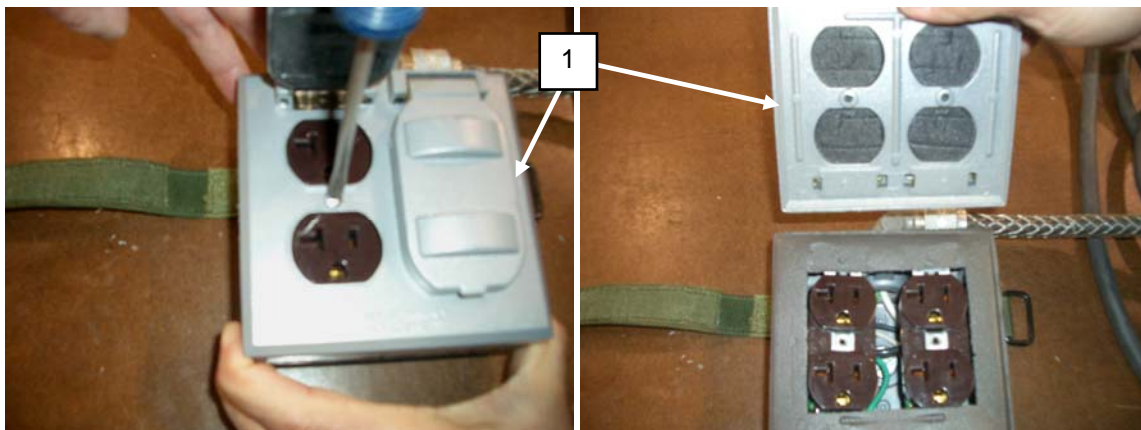


Figure 17. Remove Outlet Box Cover Plate.

REPAIR - CONTINUED

4. Remove the waterproof gasket (Figure 18, Item 1) from the outlet receptacle box.

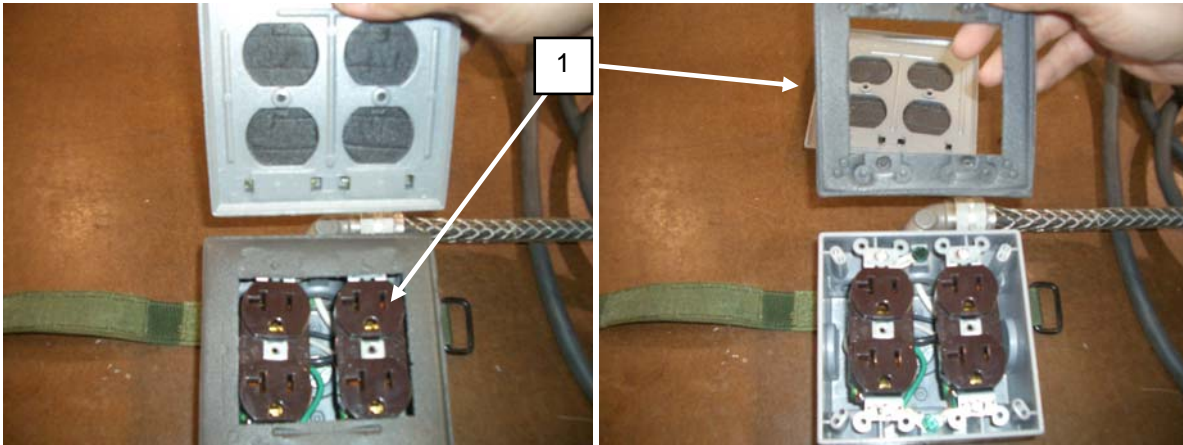


Figure 18. Remove Gasket from Outlet Box.

5. Unscrew and lift the receptacle (Figure 19, Item 1) being replaced, free of the receptacle box to allow access to the electrical wires on the side of the receptacle.

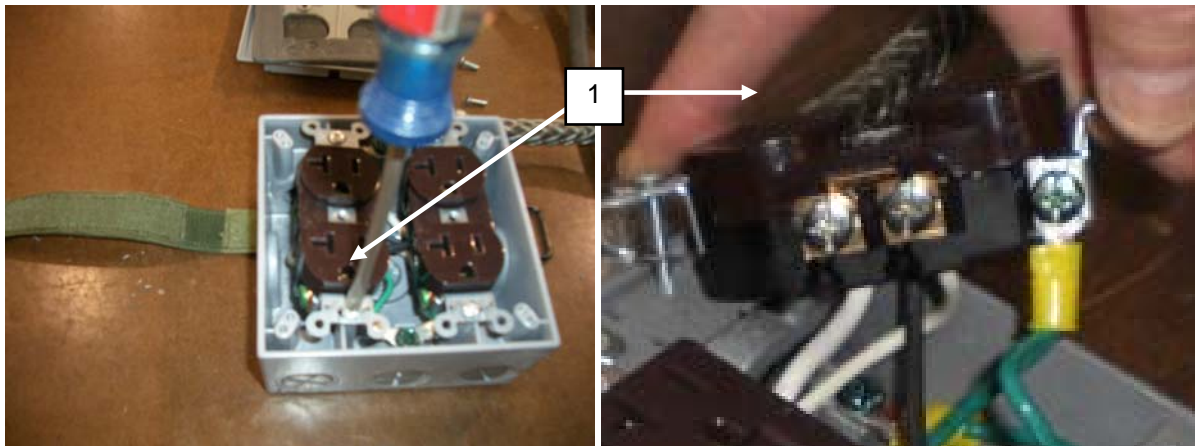


Figure 19. Unscrew Receptacle.

REPAIR - CONTINUED

WARNING

Exercise extreme care when working with electrical equipment. Failure to do so may cause death or serious injury by electrocution.

6. Exercising great care to match wire to wire, transfer the electrical wires (Figure 20, Item 1) from the receptacle being replaced to the replacement receptacle.

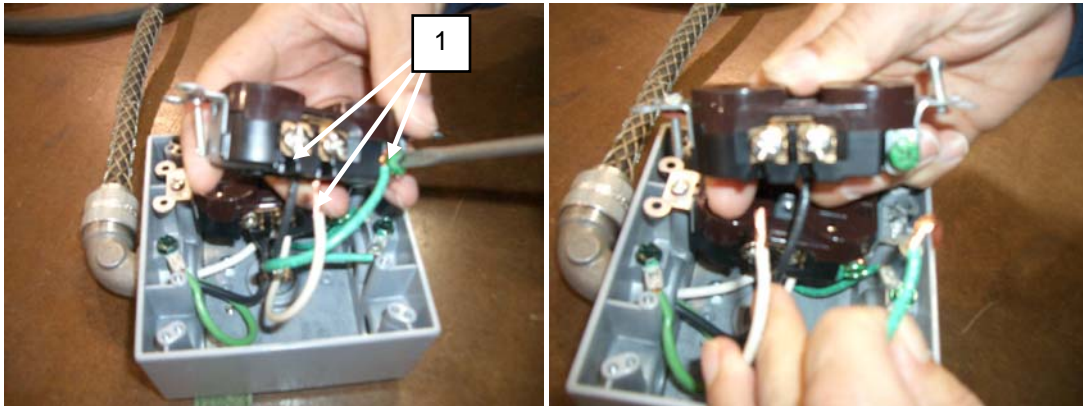


Figure 20. Transfer Electrical Wires to Replacement Receptacle.

7. Insert the replacement receptacle into the receptacle box (Figure 21, Item 1), and tighten the screws to secure it into place. Ensure that the electrical wires are not pinched.

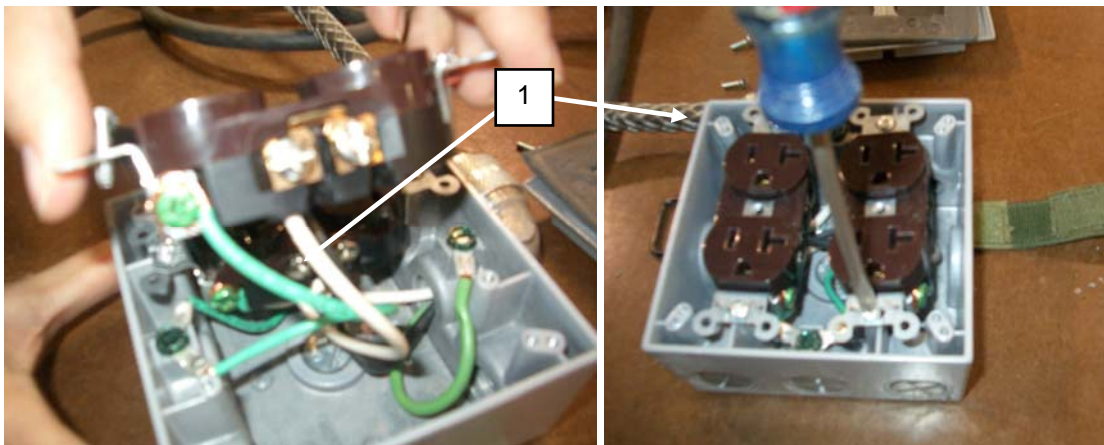


Figure 21. Install Receptacle.

REPAIR - CONTINUED

8. Fit the waterproof gasket (Figure 22, Item 1) onto the receptacle box frame aligned with the cover plate screw holes and frame edges.

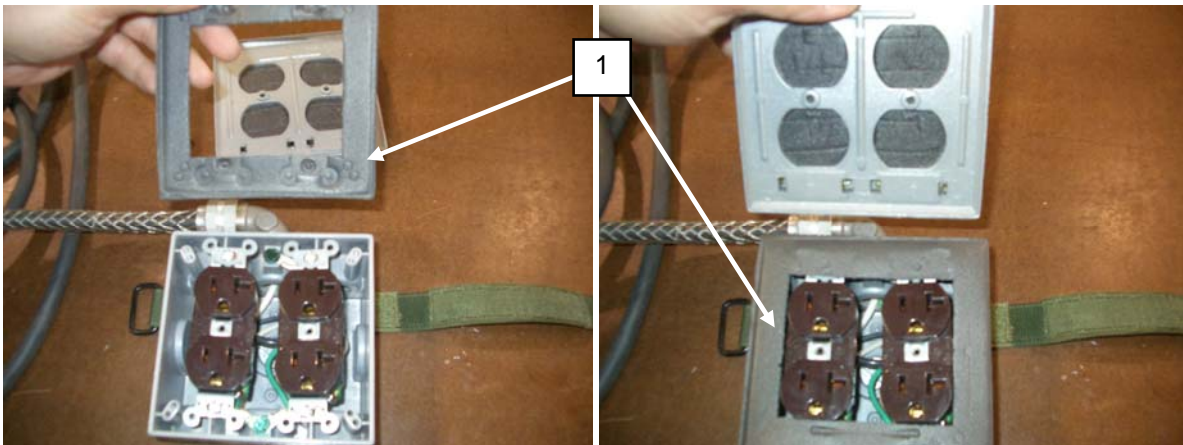


Figure 22. Install Gasket on Outlet Box.

9. Install the outlet cover plate (Figure 23, Item 1) onto the receptacle box and tighten the screws. Ensure that the waterproof gasket is properly fitted.

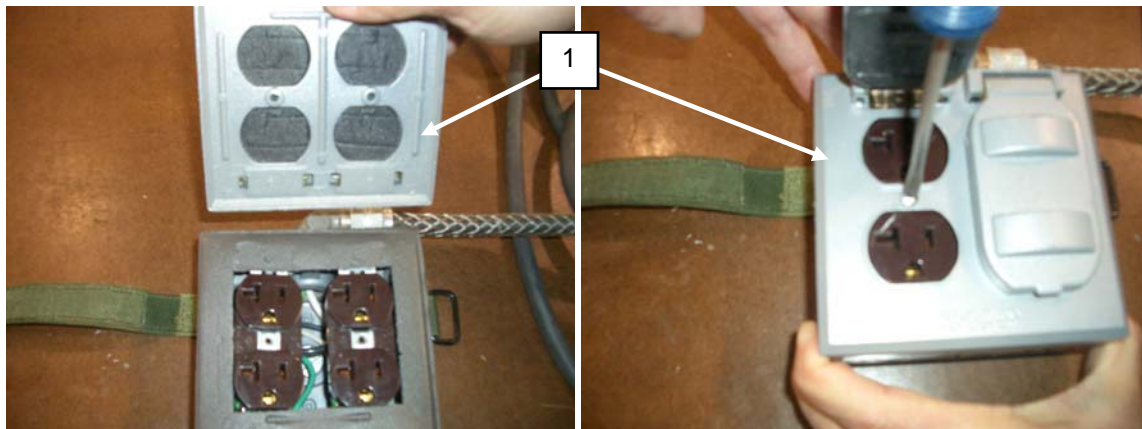


Figure 23. Install Outlet Box Cover Plate.

10. Test the outlet receptacle for continuity, shorts and grounds IAW the 'Test' paragraphs of this Work Package.

REPAIR - CONTINUED

WARNING

Fully seat and tighten the plug into the jack for reliable electrical connection. Failure to do so could result in an electrically unsafe condition that could cause serious injury or death from electrocution or damage to equipment.

11. At the power distribution box, connect the power distribution cable plug (Figure 24, Item 1) for the outlet assembly being repaired (LEFT OUTLET or RIGHT OUTLET respectively).

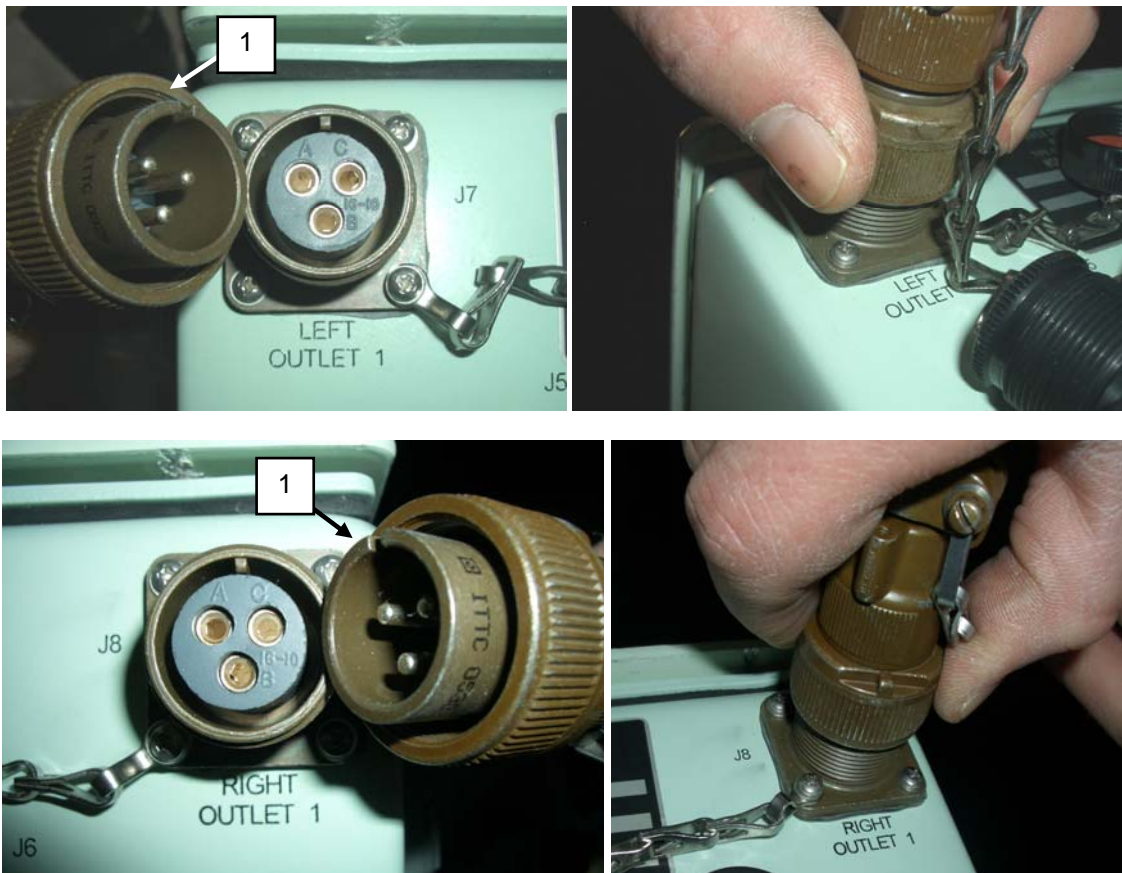


Figure 24. Connect Power Distribution Cable to Power Distribution Box.

12. Test the outlet receptacle for proper voltage IAW the paragraphs entitled 'Test' in this Work Package.

END OF TASK

REPLACE**NOTE**

To replace an outlet assembly, there are two outlet assemblies (Figure 25, Item 1) routed down the left and right sides (respectively) between the outer main skin and main liner. Open the liner to access the outlet assembly.

1. Open the liner hook and pile fasteners to access the outlet assembly components.

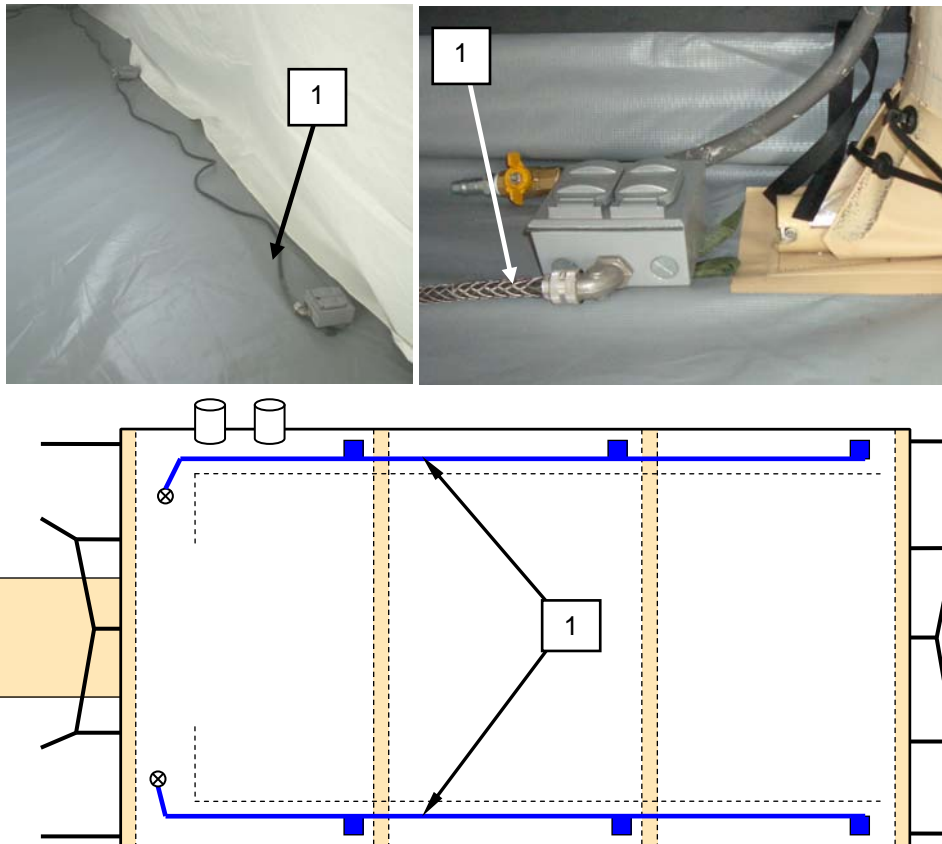


Figure 25. Outlet Assembly Locations.

WARNING

Exercise extreme care with power distribution equipment. Voltages dangerous to life may be present. Failure to do so may cause death or serious injury by electrocution.

2. Deenergize and disconnect any equipment connected to the outlet assembly being replaced.

REPLACE - CONTINUED

3. At the power distribution box, disconnect the appropriate LEFT OUTLET or RIGHT OUTLET power distribution extension cable (Figure 26, Item 1) for the outlet assembly being replaced.

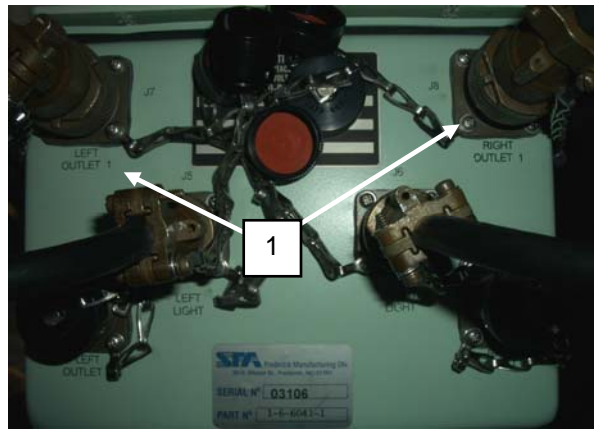


Figure 26. Remove Power Distribution Cable Plug.

4. Untie the outlet assembly power cord (Figure 27, Item 1) from any securing ties along the shelter outer skin and end panels.

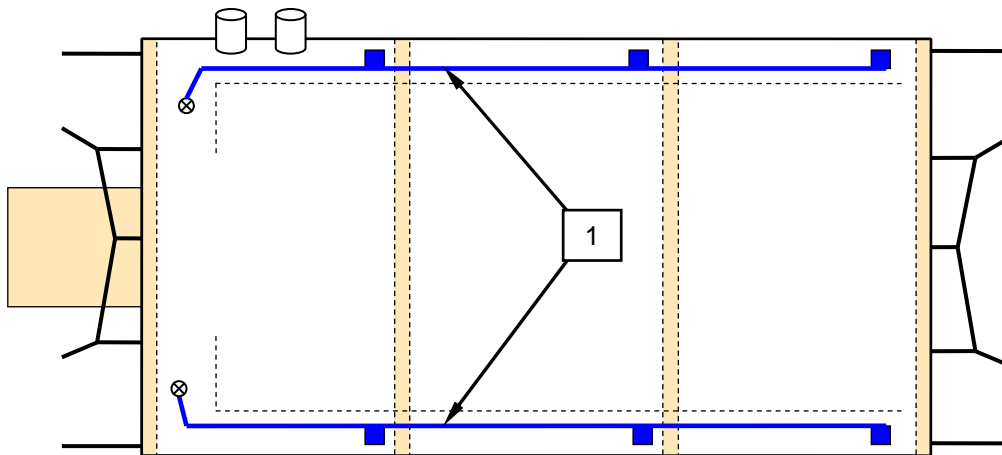
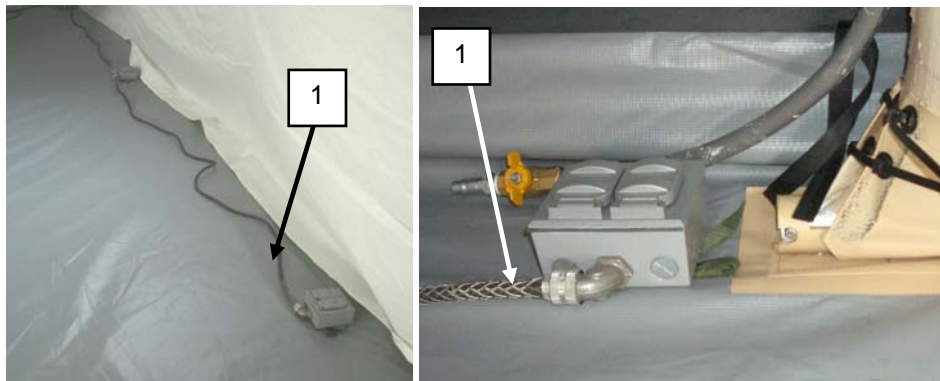


Figure 27. Outlet Assembly Locations.

REPLACE - CONTINUED

5. Disconnect the outlet power plug (Figure 28, Item 1) from the power distribution extension cable (Figure 28, Item 2). Remove the outlet assembly.

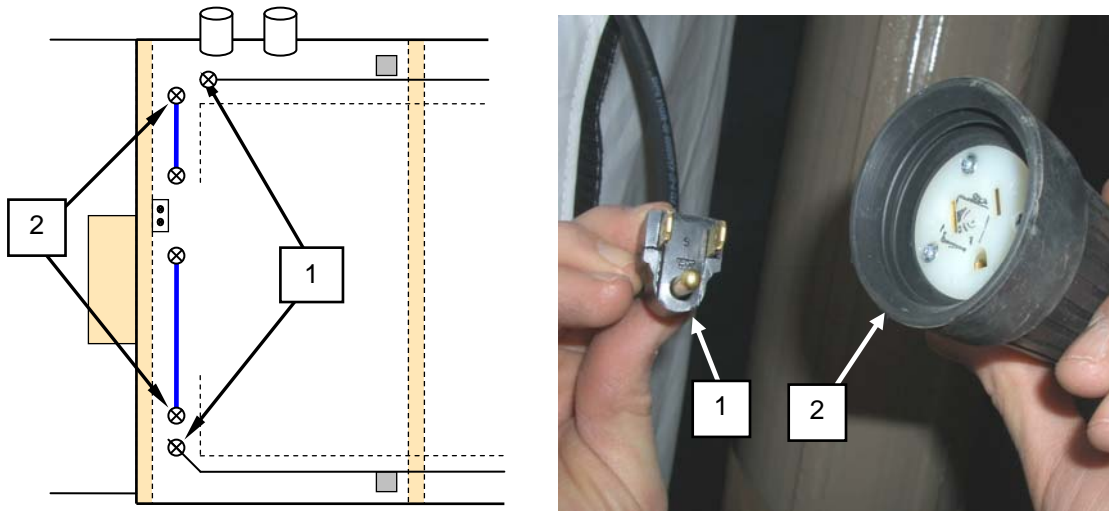


Figure 28. Disconnect Power Distribution Cable.

6. Place the new outlet assembly (Figure 29, Item 1) with the power cable plug towards the power distribution box. Place the outlet boxes next to the airbeams

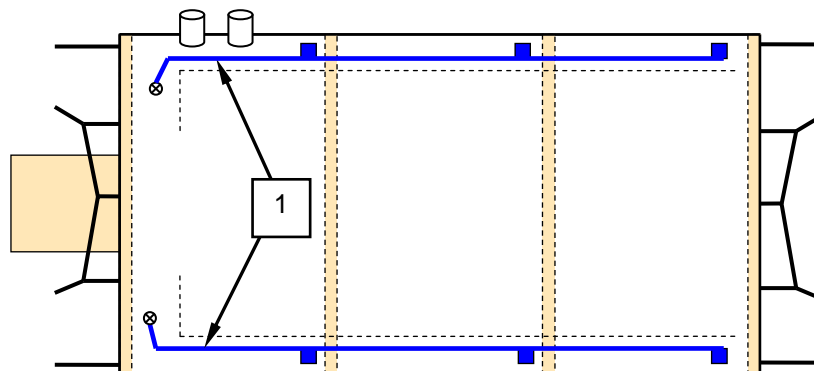


Figure 29. Layout Outlet Assembly.

REPLACE - CONTINUED

7. Connect the outlet assembly power cable plug (Figure 30, Item 1) into the power distribution extension cable receptacle jack (Figure 30, Item 2).

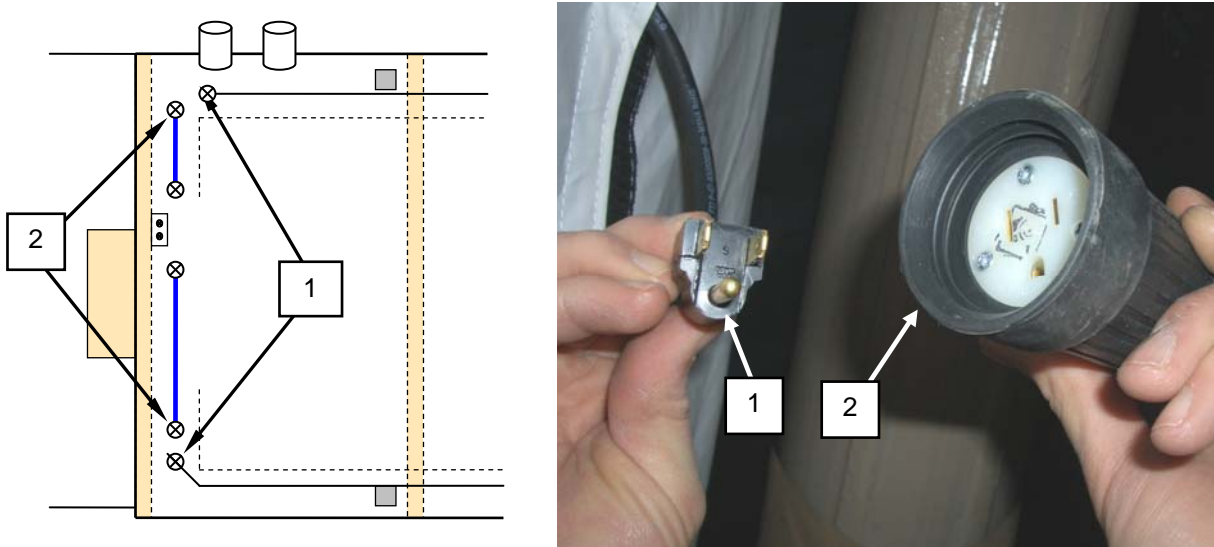


Figure 30. Connect Power Cable.

8. On the front of the power distribution box, ensure that all four left and right OUTLETS 20A pushbutton circuit breakers (Figure 31, Item 1) are set to the IN (DOWN) position.

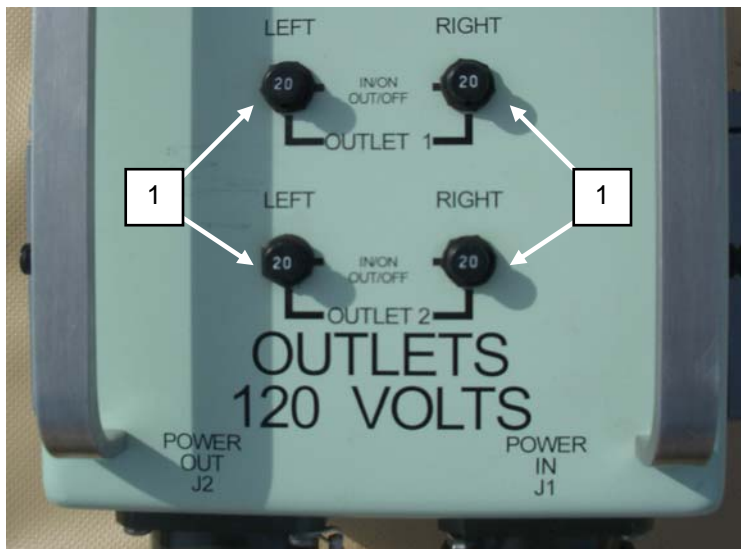


Figure 31. Outlet Circuit Breakers.

REPLACE - CONTINUED

WARNING

Fully seat and tighten the plug into the jack for reliable electrical connection. Failure to do so could result in an electrically unsafe condition that could cause serious injury or death from electrocution or damage to equipment.

9. At the power distribution box, connect the power distribution cable plug (Figure 32, Item 1) for the outlet assembly being replaced (LEFT OUTLET or RIGHT OUTLET respectively).

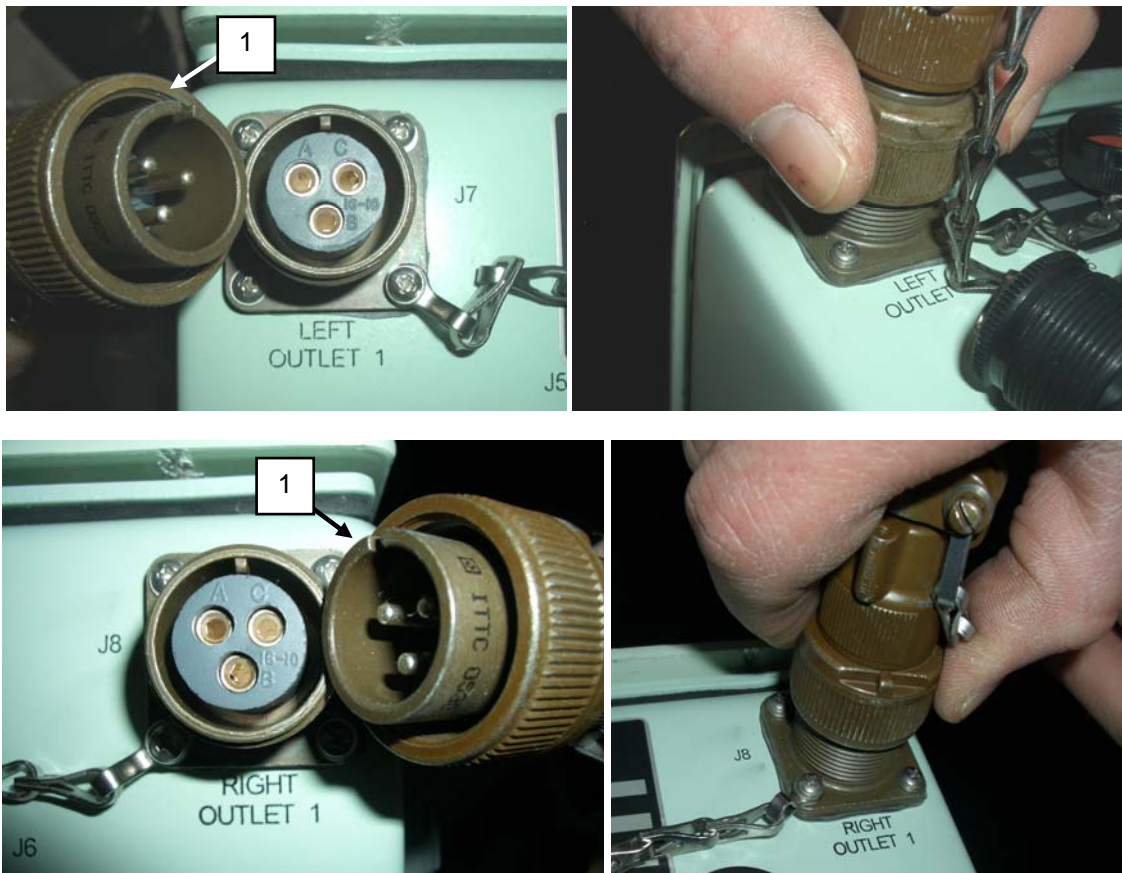


Figure 32. Connect Power Distribution Cable to Power Distribution Box.

10. Test the outlet receptacles for proper voltage IAW the paragraphs entitled 'Test' in this Work Package.

END OF TASK

END OF WORK PACKAGE

FIELD MAINTENANCE
POWER DISTRIBUTION BOX
REPAIR

INITIAL SETUP:**Tools and Special Tools**

Tool Kit, General Mechanics (WP 0065, Item 4)

Personnel Required

Power Generation Equipment Repairer 63J (1)

Equipment Condition

Shelter deployed or struck.
External electrical power disconnected.
Power distribution box removed.

REPAIR**NOTE**

Repair involves the replacement of one or more components as required. There is typically more than one of each type of component on the power distribution box. However, the replacement procedure for each component type is the same.

Replace Receptacle Covers

1. Remove cover (Figure 1, Item 1) from receptacle (Figure 1, Item 2).
2. Remove screw (Figure 1, Item 3), washer (Figure 1, Item 4), and cover chain (Figure 1, Item 5) from the receptacle (Figure 1, Item 2).
3. Install screw (Figure 1, Item 3), washer (Figure 1, Item 4), and cover chain (Figure 1, Item 5) of new receptacle cover on receptacle (Figure 1, Item 2).
4. Install cover (Figure 1, Item 1) onto receptacle (Figure 1, Item 2).

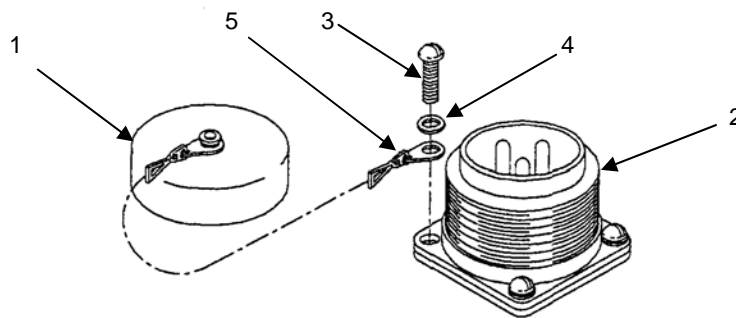


Figure 1. Replace Receptacle Cover.

END OF TASK

REPAIR - CONTINUED**Replace Front Panel Circuit Breaker (Toggle or Push-Pull)**

1. Remove the 14 screws and washers securing the back cover plate to the power distribution box (Figure 2). Retain the screws, washers, and gasket for reassembly.



Figure 2. Power Distribution Box Back Cover.

CAUTION

Hold the leads to stop them from rotating on the terminal board. Failure to do so can damage the terminal board separation studs.

NOTE

Tag the wires for correct locations before disconnection from the terminal board.

2. Disconnect three sets of the heavy gauge power leads (Figure 3 Item 1) from the terminal block. Hold the leads to stop them from pivoting during removal (Figure 3, Item 2). Dispose of the locknuts and star washers.

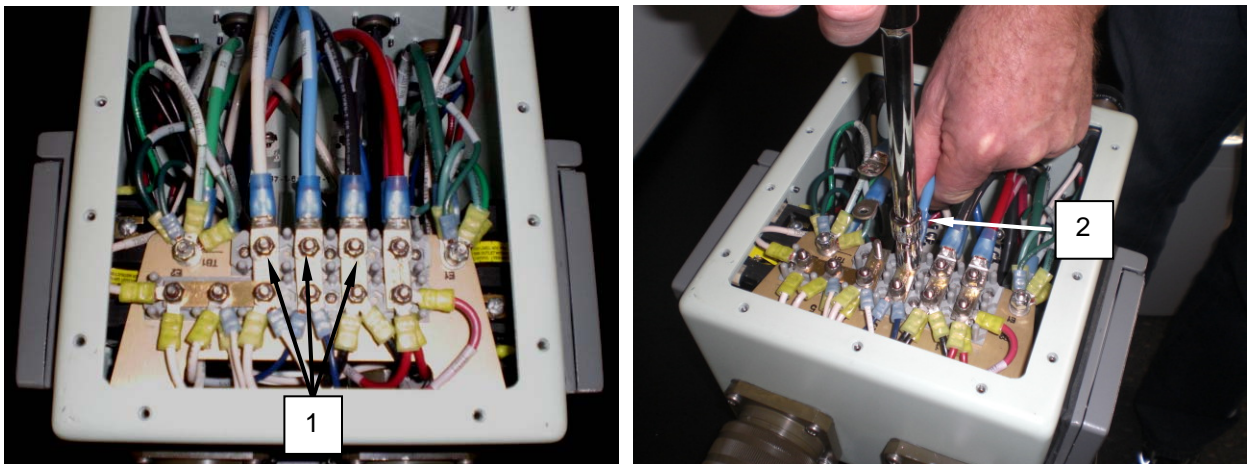


Figure 3. Power Distribution Box Wiring.

REPAIR - CONTINUED

NOTE

Take note of the orientation of the circuit breaker to ensure that the serviceable replacement is installed correctly.

3. Remove the circuit breaker (Figure 4, Item 1) or toggle switch (Figure 4, Item 2) by removing the outer retaining nut and washer.

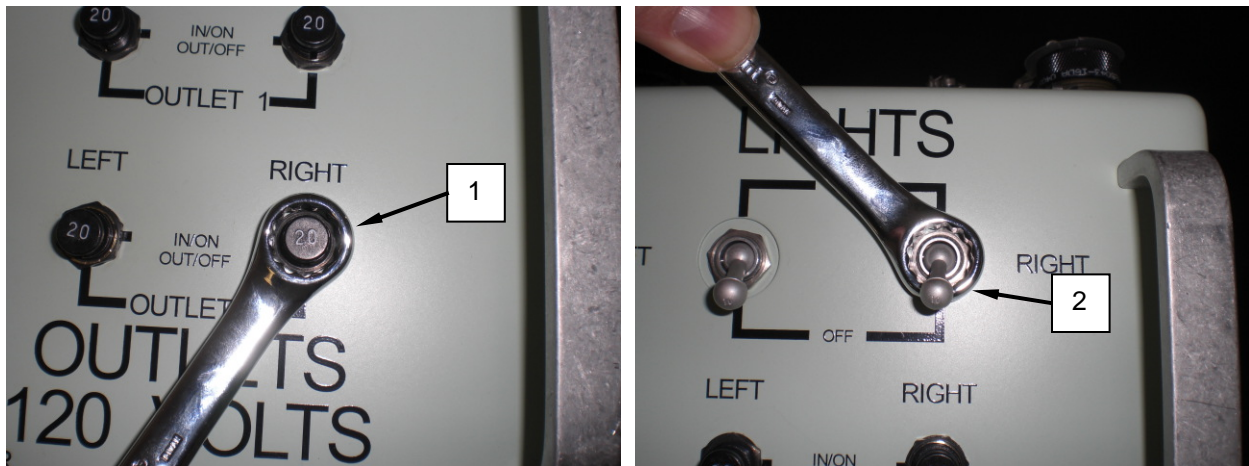


Figure 4. Circuit Breakers and Toggle Switches.

4. Reach inside the power distribution box with one hand and maneuver the circuit breaker towards the back of the power distribution box to gain access to the terminals (Figure 5, Item 1).
5. Take note of the terminal lug locations for reassembly.
6. Remove the screws and washers from the circuit breaker posts (Figure 5, Item 2) and separate the terminal lugs from the circuit breaker.

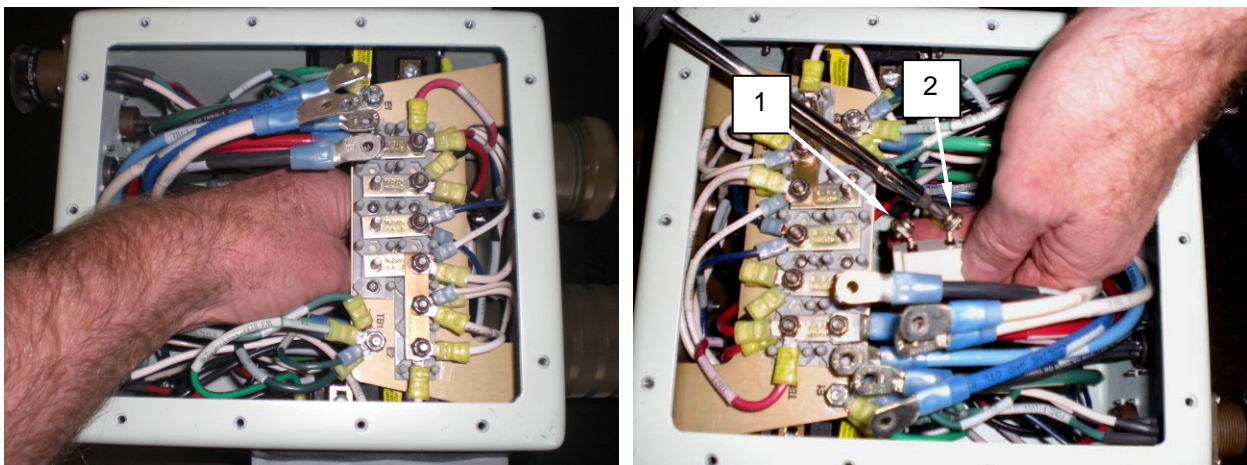


Figure 5. Removing Circuit Breaker.

7. If the circuit breaker is to be replaced, dispose of the circuit breaker and fasteners.

REPAIR - CONTINUED

8. Remove the retaining nut and washer and the post fasteners from the new circuit breaker and retain for reassembly (Figure 6).



Figure 6. New Circuit Breaker.

9. Using the notes taken regarding terminal lug locations, connect the circuit breaker to the wiring using the screws and washers removed from the terminal posts (Figure 7, Item 1).

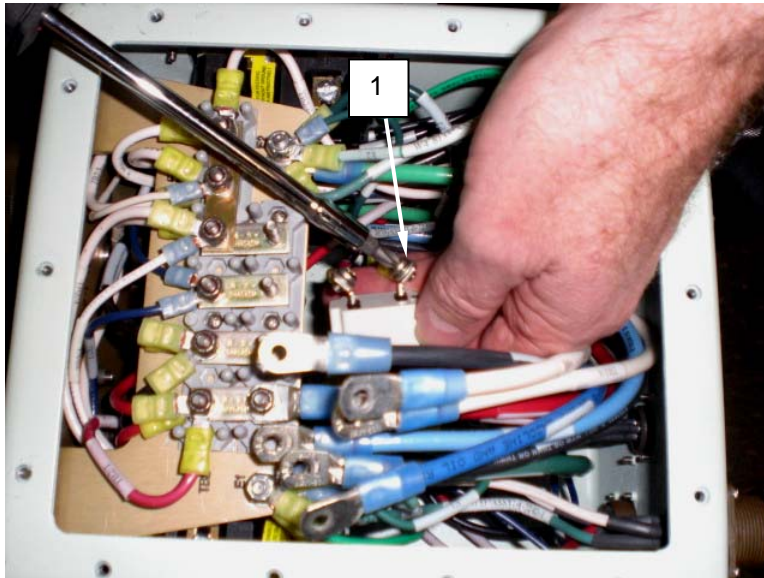


Figure 7. Attaching Circuit Breaker Wiring.

10. Maneuver the circuit breaker into position.

REPAIR - CONTINUED

11. Holding the circuit breaker in the correct orientation with one hand inside the distribution box, secure the circuit breaker with the new retaining nut and washer (Figure 8).

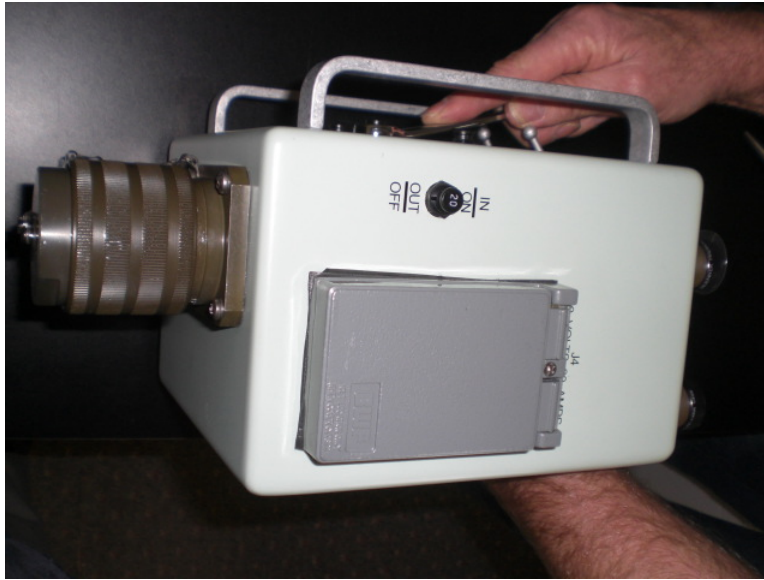


Figure 8. Securing Circuit Breaker.

CAUTION

Hold the leads to stop them from rotating on the terminal board. Failure to do so can damage the terminal board separation studs.

12. Reconnect the three sets of heavy gauge power leads to the terminal block, using new locknuts and star washers (Figure 9, Item 1).

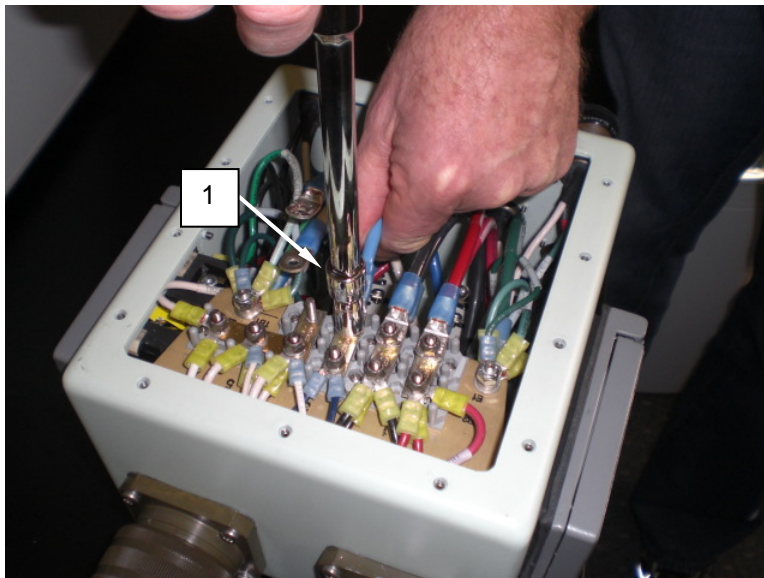


Figure 9. Reconnecting Heavy Gauge Leads.

REPAIR - CONTINUED

13. Place the back cover plate gasket into position (Figure 10, Item 1).
14. Place the back cover plate onto the gasket and install the 14 screws and washers to only finger tight, this ensures correct alignment.
15. Tighten all of the 14 screws and washers securing the back cover ensuring the rubber gasket provides adequate sealing (Figure 10, Item 2).

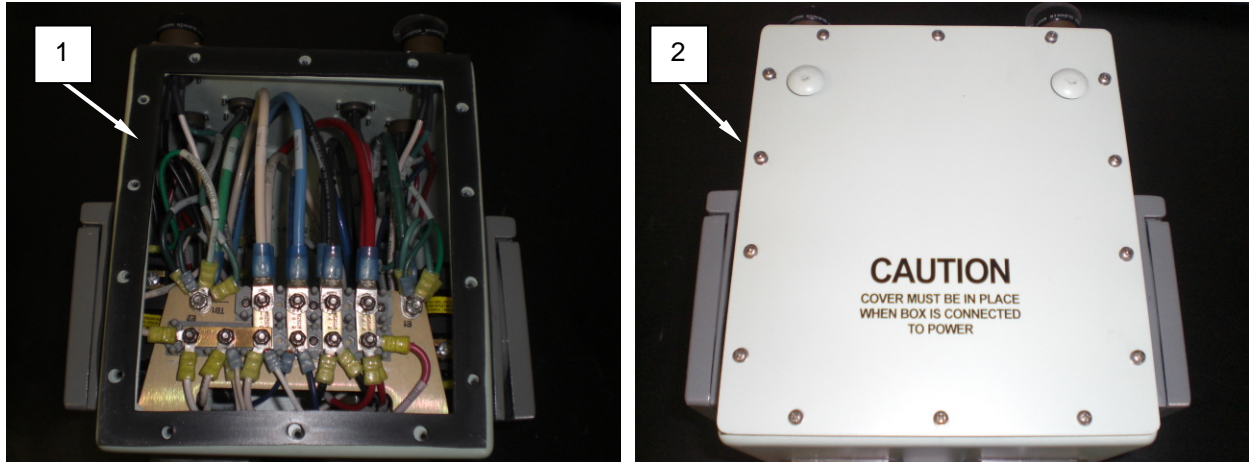


Figure 10. Replace Power Distribution Box Back Cover.

END OF TASK

REPAIR - CONTINUED**Replace Side Panel Circuit Breaker**

1. Remove the 14 screws and washers securing the back cover plate to the power distribution box (Figure 11). Retain the 14 screws, washers, and gasket for reassembly.



Figure 11. Power Distribution Box Back Cover.

2. Open the power outlet receptacle cover, and remove the four fasteners (Figure 12, Item 1) securing the power outlet adjacent to the faulty circuit breaker. Retain the fasteners for reassembly.
3. Pull the power outlet receptacle and gasket clear of the distribution box (Figure 12, Item 2).

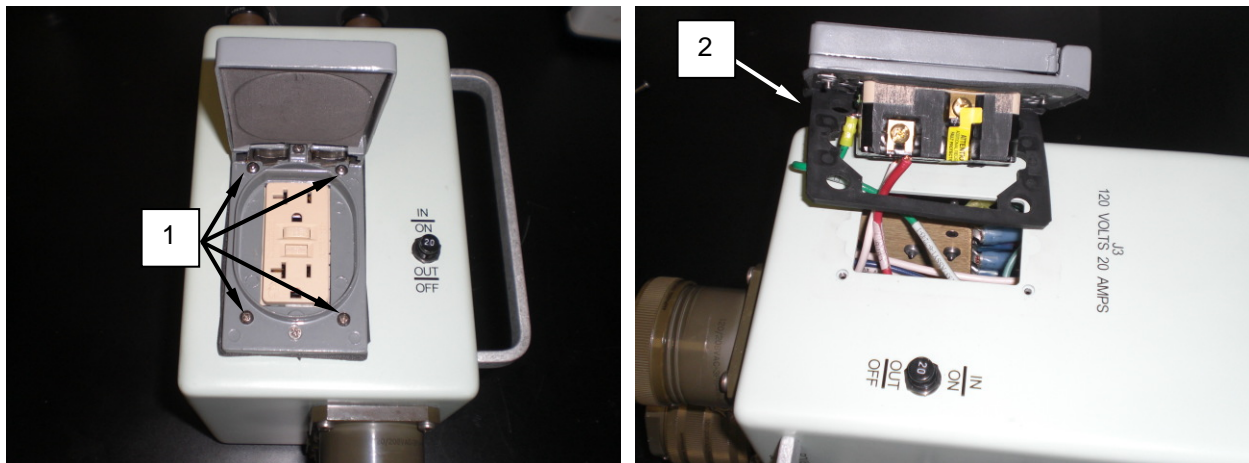


Figure 12. Removing Power Outlet Receptacle.

REPAIR - CONTINUED

NOTE

Take note of the orientation of the circuit breaker to ensure that the new one is installed correctly.

4. Reach inside the power distribution box and hold the circuit breaker. Remove the circuit breaker by removing the outer retaining nut and washer (Figure 13, Item 1).
5. Maneuver the circuit breaker towards the opening left by the removed power receptacle to gain access to the terminals (Figure 13, Item 2).

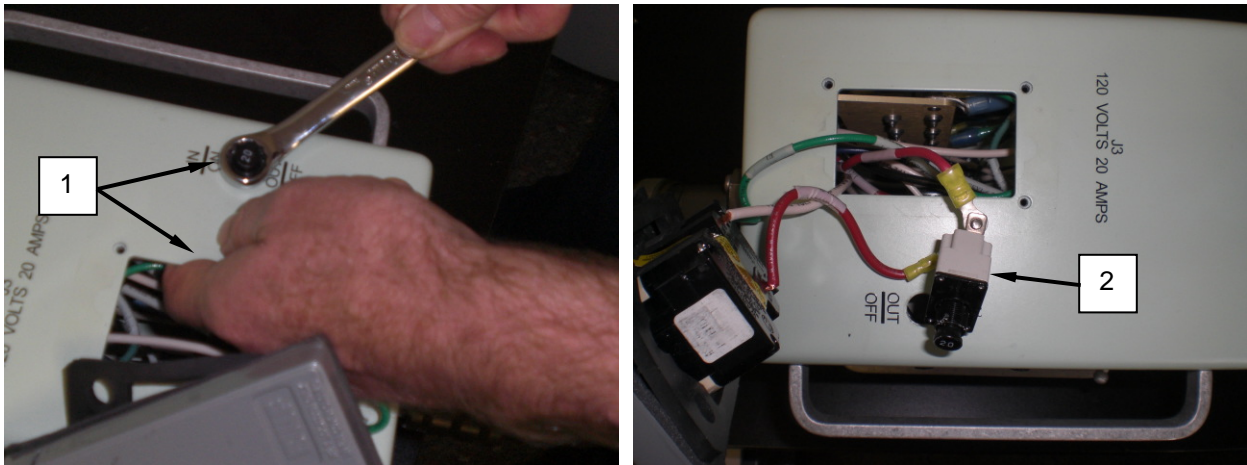


Figure 13. Removing Circuit Breaker.

6. Take note of the terminal lug locations for reassembly.
7. Remove screws and washers from the circuit breaker posts (Figure 14) and separate the terminal lugs from the circuit breaker.



Figure 14. Disconnecting Circuit Breaker Wiring.

8. If the circuit breaker is to be replaced, dispose of the circuit breaker and fasteners.

REPAIR - CONTINUED

9. Remove the retaining nut and washer and the post fasteners from the new circuit breaker and retain for reassembly (Figure 15).



Figure 15. New Circuit Breaker.

10. Using the notes taken regarding terminal lug locations, connect the new circuit breaker to the wiring using the screws and washers removed from the terminal posts (Figure 16).



Figure 16. Connecting Circuit Breaker Wiring.

11. Maneuver the circuit breaker into position inside the power distribution box, ensuring it is in the correct orientation.

REPAIR - CONTINUED

12. Holding the circuit breaker in the correct orientation with one hand inside the distribution box, secure the circuit breaker with the new retaining nut and washer (Figure 17).

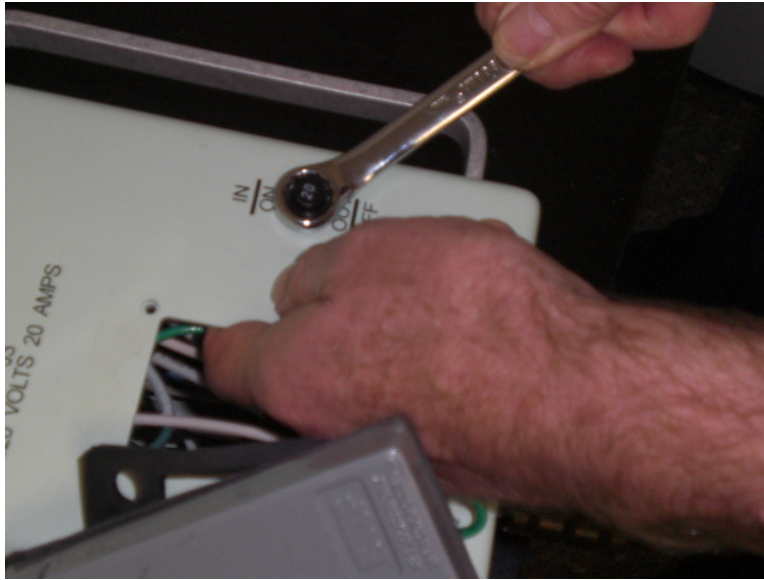


Figure 17. Installing Circuit Breaker.

13. Maneuver the power outlet and gasket back into position and secure with retained fasteners ensuring the gasket provides adequate sealing.
14. Place the back cover plate gasket into position (Figure 18, Item 1).

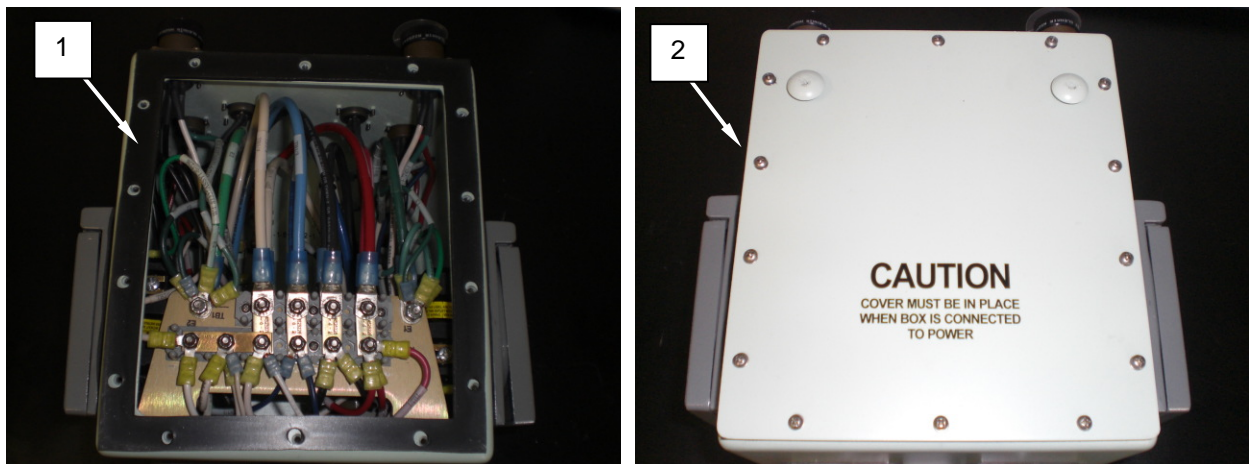


Figure 18. Replace Power Distribution Box Back Cover.

15. Place the back cover plate onto the gasket and install the 14 fasteners to only finger tight, this ensures correct alignment.
16. Tighten all of the fasteners securing the back cover ensuring the rubber gasket provides adequate sealing (Figure 18, Item 2).

END OF TASK

REPAIR - CONTINUED**Replace the GFCI Receptacle**

1. Open the GFCI receptacle cover, and remove the four screws (Figure 19, Item 1) securing the GFCI receptacle to the power distribution box. Retain the screws for reassembly.
2. Pull the GFCI receptacle and gasket clear of the distribution box (Figure 19, Item 2).

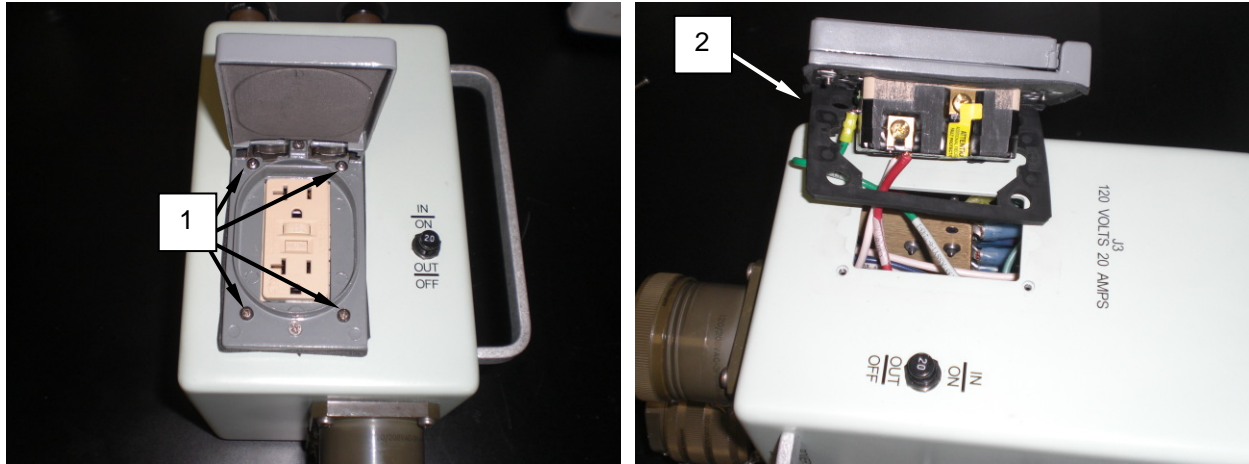


Figure 19. Removing GFCI Receptacle.

3. Remove 2 screws (Figure 20, Item 1), separating the cover, GFCI receptacle, and gaskets.

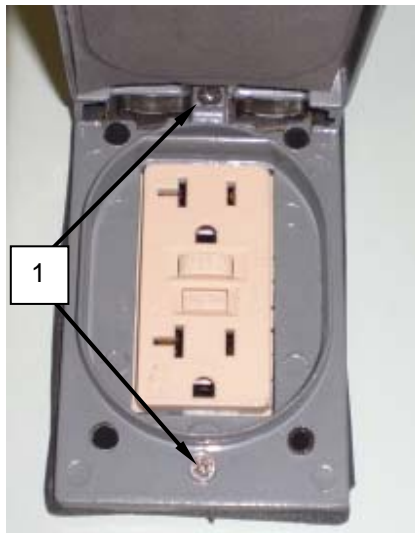


Figure 20. Separate GFCI Receptacle Cover.

REPAIR - CONTINUED

4. Loosen set screws, tag and remove wires (Figure 21).

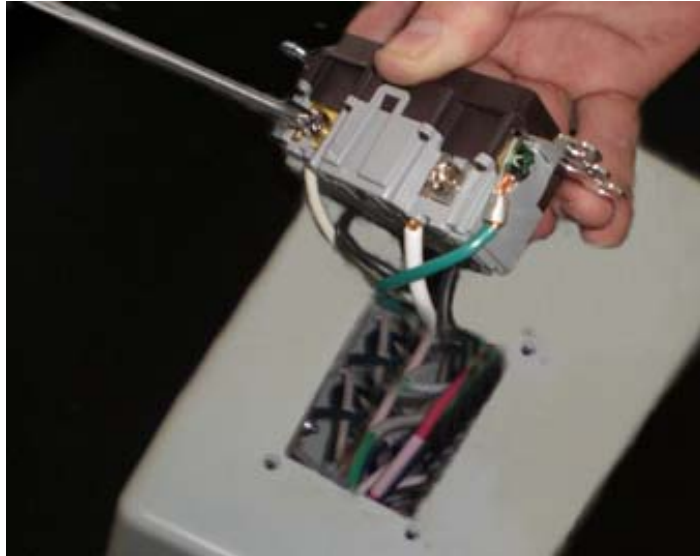


Figure 21. Removing GFCI Receptacle.

5. Install a new GFCI receptacle by installing wires (Figure 21) and tighten set screws on the GFCI receptacle cover.
6. Assemble mounting box receptacle (Figure 22, Item 1), cover (Figure 22, Item 2), and gasket with 4 screws.

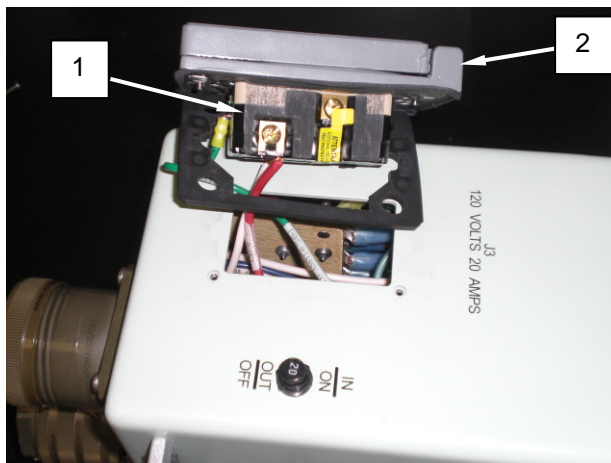


Figure 22. Installing GFCI Receptacle.

REPAIR - CONTINUED

7. Install 2 screws (Figure 23, Item 1) in the cover, with the long one on top and the short one on the bottom.

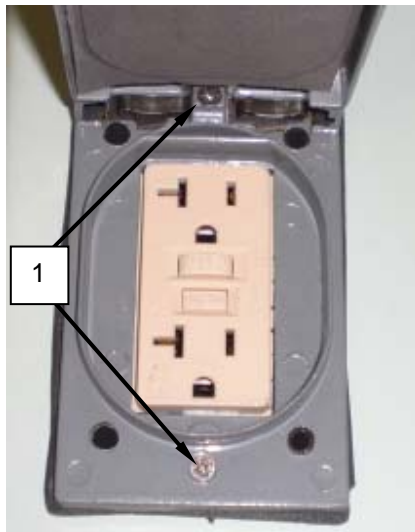


Figure 23. Installing Screws in GFCI Receptacle Cover.

8. Install GFCI receptacle (Figure 24, Item 1), cover (Figure 24, Item 2) and screws (Figure 24, Item 3) in power distribution box.

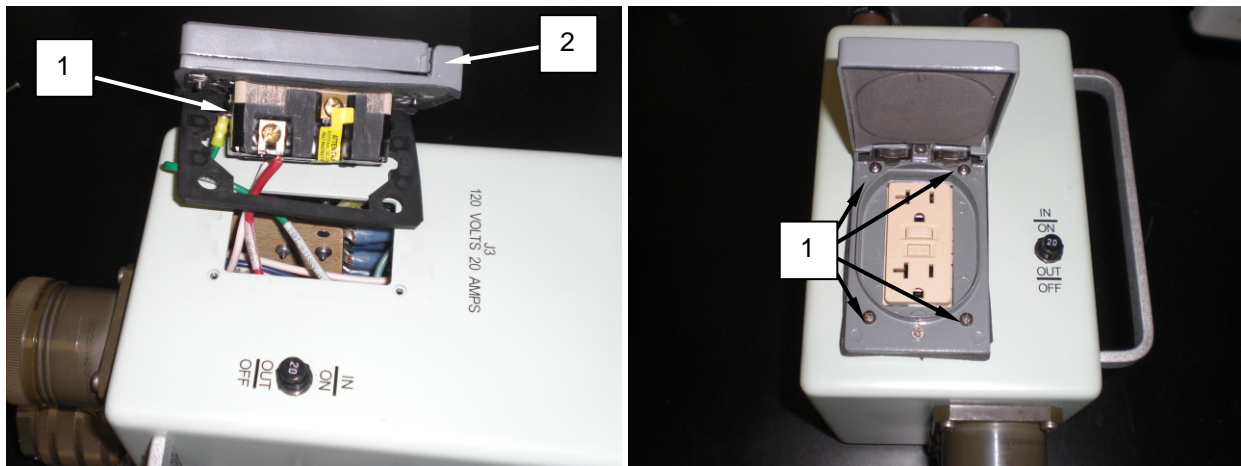


Figure 24. Install GFCI Receptacle in Power Distribution Box.

END OF TASK

END OF WORK PACKAGE

CHAPTER 8

**PARTS INFORMATION
FOR
TEMPER, AIR-SUPPORTED**

OPERATOR AND FIELD MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)

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 required for performance of operator and field maintenance of the TEMPER, Air-Supported. It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the source, maintenance, and recoverability (SMR) codes.

GENERAL

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

1. Repair Parts List Work Packages. Work packages containing lists of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. These work packages also include parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Sending units, brackets, filters, and bolts are listed with the component they mount on. Bulk materials are listed by item name in FIG. BULK at the end of the work packages. Repair parts kits are listed at the end of the individual work packages. Repair parts for reparable special tools are also listed in a separate work package. Items listed are shown on the associated illustrations.
2. Special Tools List Work Packages. Work packages containing lists of special tools, special TMDE, and special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in the DESCRIPTION AND USABLE ON CODE (UOC) column). Tools that are components of common tool sets and/or Class VII are not listed.
3. Cross-Reference Indexes Work Packages. There are two cross-reference indexes work packages in this RPSTL: the National Stock Number (NSN) Index work package, and the Part Number (P/N) 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 PACKAGES

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

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

TABLE 1. SMR Code Explanation.

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

*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:

Source Code

Application/Explanation

PA
PB
PC
PD
PE
PF
PG
PH
PR
PZ

NOTE

Items coded PC are subject to deterioration.

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.

KD
KF
KB

Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance level indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied.

MO-Made at unit/AMC level
MF-Made at DS/ASB level
MH-Made at Sustainment level
ML-Made at SRA/TASMG
MD-Made at depot
MG-Navy only

Items with these codes are not to be requisitioned/requested individually. They must be made from bulk material which is identified by the part number 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.

AO-Assembled by unit/AMC level
AF-Assembled by DS/ASB level
AH-Assembled by Sustainment level
AL-Assembled by SRA/TASMG
AD-Assembled by depot
AG-Navy only

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 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 part number.

XC

Installation drawings, diagrams, instruction sheets, field service drawings; identified by manufacturer's part number.

XD

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

NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes except for those 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 authorized to use and repair support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

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

Maintenance

<u>Code</u>	<u>Application/Explanation</u>
O*	Unit level/AMC maintenance can remove, replace, and use the item.
F	Direct support/ASB maintenance can remove, replace, and use the item.
H	Sustainment maintenance can remove, replace, and use the item.
L	Specialized repair activity/TASMG can remove, replace, and use the item.
G	Afloat and ashore intermediate maintenance can remove, replace, and use the item (Navy only).
K	Contractor facility can remove, replace, and use the item.
Z	Item is not authorized to be removed, replaced, or used at any maintenance level.
D	Depot can remove, replace, and use the item.

*NOTE - Army may use C in the third position. However, for joint service publications, Army will use O.

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

NOTE

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

Maintenance

<u>Code</u>	<u>Application/Explanation</u>
O	Unit/AMC is the lowest level that can do complete repair of the item.
F	Direct support/ASB is the lowest level that can do complete repair of the item.
H	Sustainment is the lowest level that can do complete repair of the item.
L	Specialized repair activity (enter specialized repair activity designator) 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.
G	Both afloat and ashore intermediate levels are capable of complete repair of item. (Navy only).
K	Complete repair is done at contractor facility.
Z	Nonreparable. No repair is authorized.
B	No repair is authorized. No parts or special tools are authorized for maintenance of "B" coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

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

Recoverability

Code	Application/Explanation
Z -	Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code.
O -	Reparable item. When uneconomically reparable, condemn and dispose of the item at the service/AMC level.
F -	Reparable item. When uneconomically reparable, condemn and dispose of the item at the field level/ASB.
H -	Reparable item. When uneconomically reparable, condemn and dispose of the item at the below depot sustainment 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) or theater aviation sustainment maintenance group (TASMG).
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.
G -	Field level reparable item. Condemn and dispose at either afloat or ashore intermediate levels. (Navy only)
K -	Reparable item. Condemnation and disposal to be performed at contractor facility.

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.

NOTE

When you use an NSN to requisition an item, the item you receive may have a different part number 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. Part numbers of bulk materials are referenced in this column in the line entry to be manufactured or fabricated.
3. Hardness Critical Item (HCI). A support item that provides the equipment with special protection from electromagnetic pulse (EMP) damage during a nuclear attack.
4. The statement END OF FIGURE appears just below the last item description in column (6) for a given figure in both the repair parts list and special tools list work packages.

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

EXPLANATION OF CROSS-REFERENCE INDEXES WORK PACKAGES FORMAT AND COLUMNS

1. National Stock Number (NSN) Index Work Package. NSN's in this index are listed in National Item Identification Number (NIIN) sequence.

STOCK NUMBER Column. This column lists the NSN in NIIN sequence. The NIIN consists of the last nine digits of the NSN. When using this column to locate an item, ignore the first four digits of the NSN. However, the complete NSN should be used when ordering items by stock number. For example, if the NSN is 5385-01-574-1476, the NIIN is 01-574-1476.

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

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

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

PART NUMBER Column. Indicates the part number assigned to the item.

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

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

SPECIAL INFORMATION

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

<u>Code</u>	<u>Used On</u>
FYA	TEMPER, Type XXXI, Green
FYC	TEMPER, Type XXXII, Green
FYE	TEMPER, Type XXXIII, Green
FYG	TEMPER, Type XXXIV, Green
FYJ	TEMPER, Type XXXV, Green
FYL	TEMPER, Type XXXVI, Green
FYN	TEMPER, Type XXXVII, Green
FYQ	TEMPER, Type XXXVIII, Green
FYS	TEMPER, Type XXXIX, Green
FYU	TEMPER, Type XL, Green
FXL	TEMPER, Type XLI, Green
FXN	TEMPER, Type XLII, Green
FXQ	TEMPER, Type XLIII, Green
FXS	TEMPER, Type XLIV, Green
FXU	TEMPER, Type XLV, Green
FXW	TEMPER, Type XLVI, Green
FXY	TEMPER, Type XLVII, Green
FYB	TEMPER, Type XXXI, Tan
FYD	TEMPER, Type XXXII, Tan
FYF	TEMPER, Type XXXIII, Tan
FYH	TEMPER, Type XXXIV, Tan

Code	Used On
FYK	TEMPER, Type XXXV, Tan
FYM	TEMPER, Type XXXVI, Tan
FYP	TEMPER, Type XXXVII, Tan
FYR	TEMPER, Type XXXVIII, Tan
FYT	TEMPER, Type XXXIX, Tan
FYV	TEMPER, Type XL, Tan
FXM	TEMPER, Type XLI, Tan
FXP	TEMPER, Type XLII, Tan
FXR	TEMPER, Type XLIII, Tan
FXT	TEMPER, Type XLIV, Tan
FXV	TEMPER, Type XLV, Tan
FXX	TEMPER, Type XLVI, Tan
FXZ	TEMPER, Type XLVII, Tan

Fabrication Instructions. Bulk materials required to manufacture items are listed in the bulk material functional group of this RPSTL. Part numbers for bulk material are also referenced in the Description Column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for items source coded to be manufactured or fabricated are found in WP 00XX of this technical manual.

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

Illustrations List. The illustrations in this RPSTL contain unit authorized items. Illustrations published in that contain unit authorized items also appear in this RPSTL. The tabular list in the repair parts list work package contains only those parts coded "O" in the third position of the SMR code, therefore, there may be a break in the item number sequence.

HOW TO LOCATE REPAIR PARTS

1. When NSNs or Part Numbers Are Not Known.

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

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

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

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

2. When NSN Is Known.

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

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

3. When Part Number Is Known.

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

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

END OF WORK PACKAGE

OPERATOR AND FIELD MAINTENANCE

SKIN, OUTER

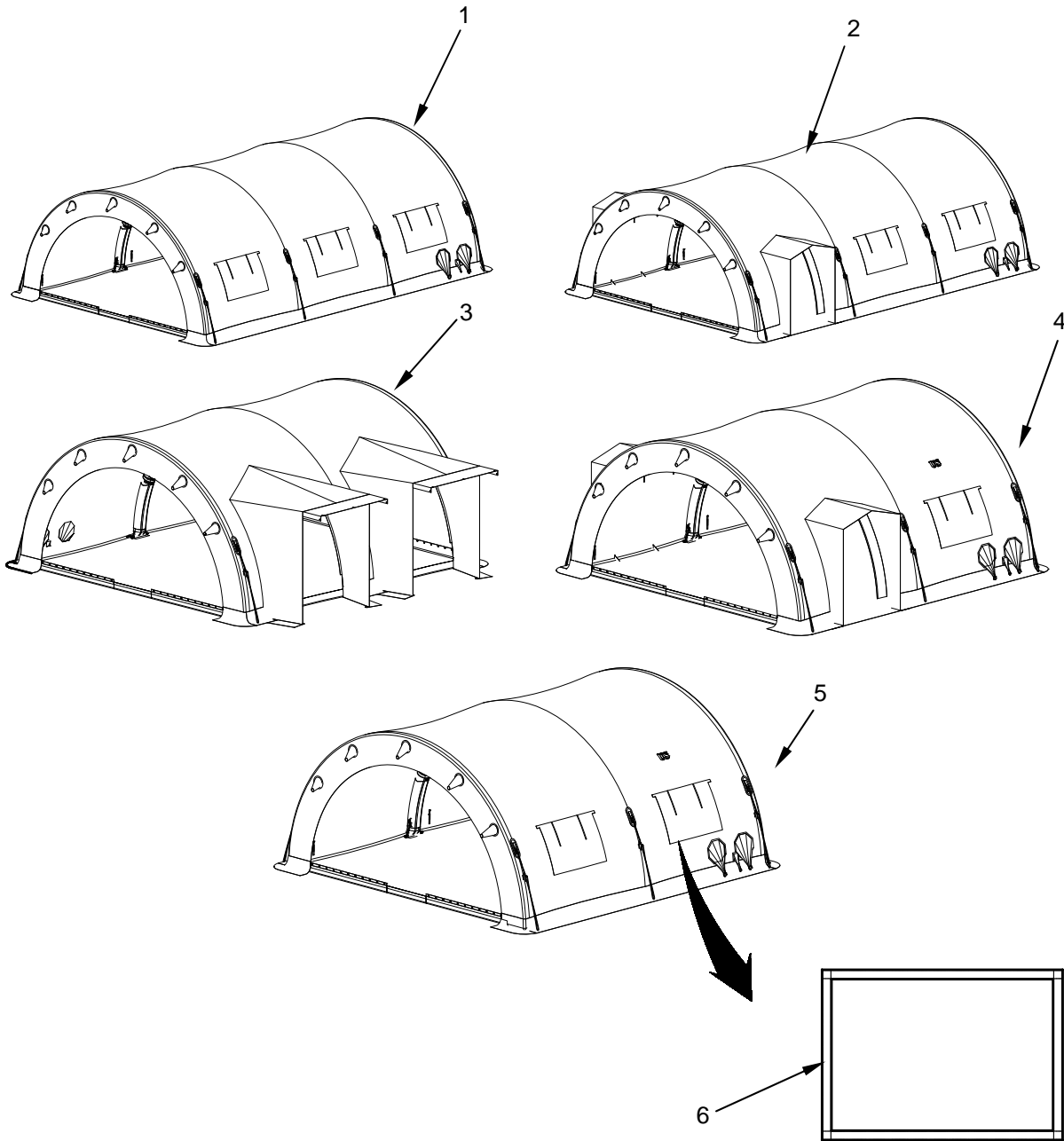


Figure 1. Skin, Outer (Sheet 1 of 3).

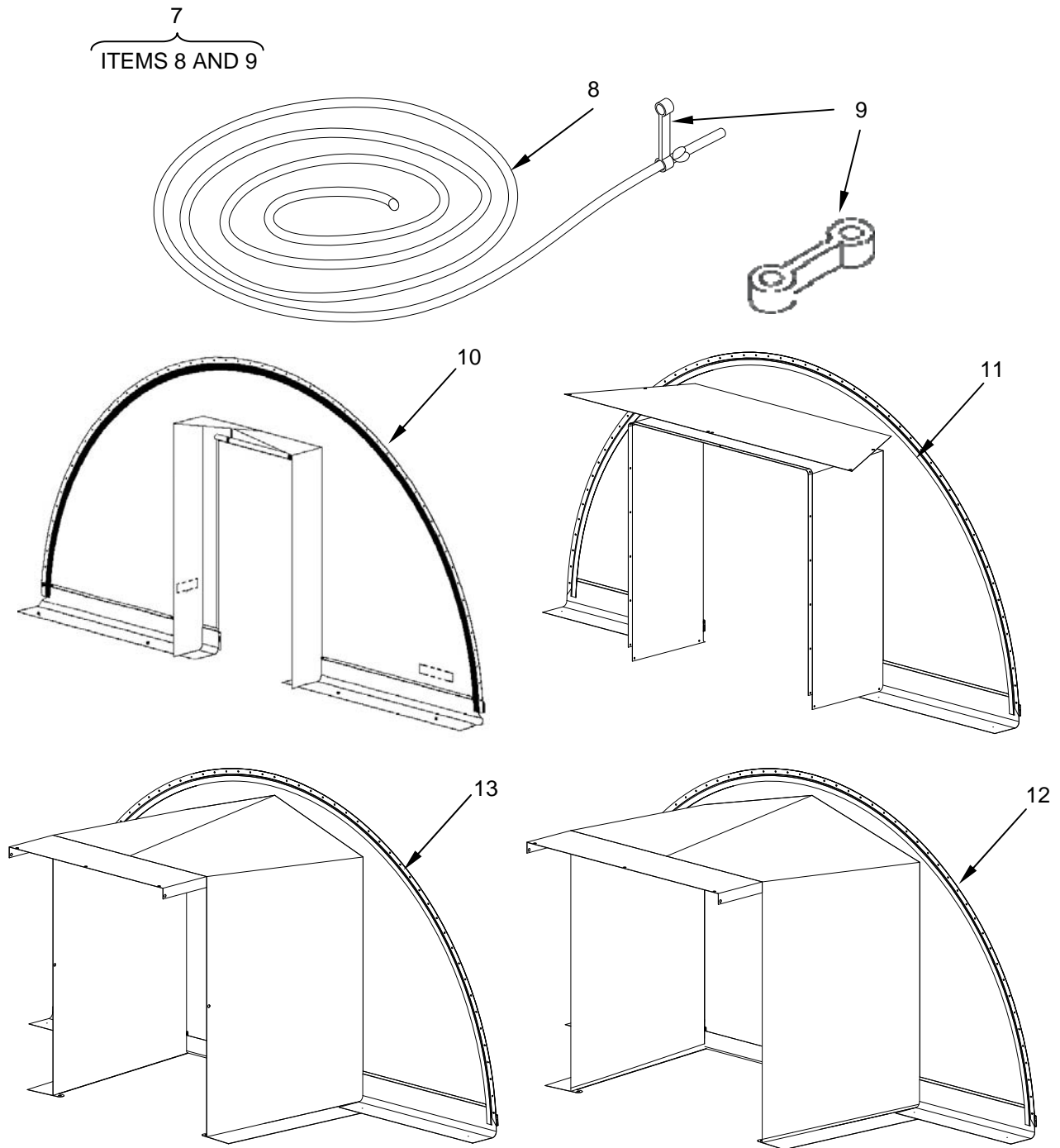


Figure 1. Skin, Outer (End Section) (Sheet 2 of 3).

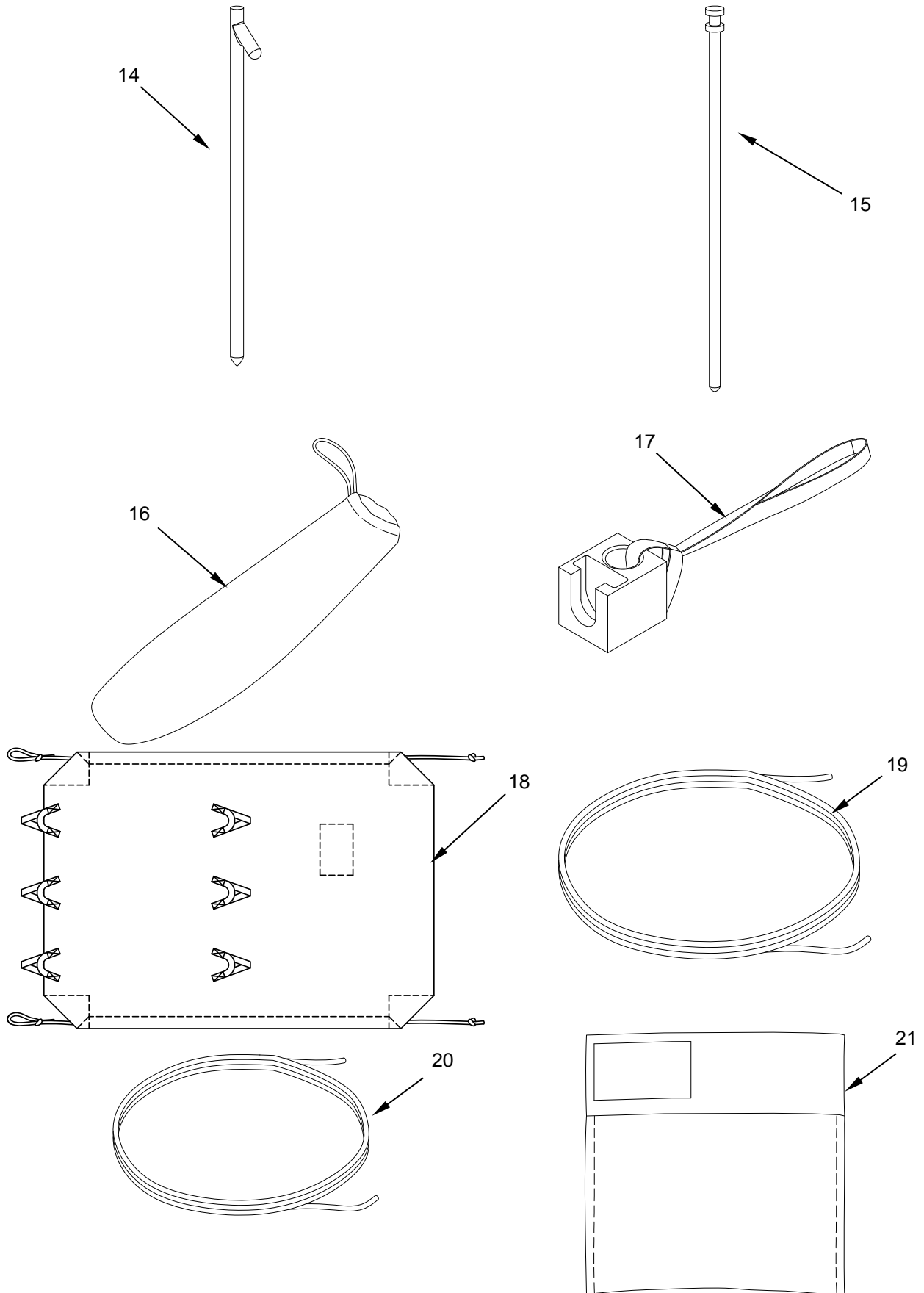


Figure 1. Skin, Outer (Tent Pins and Transport Cover) (Sheet 3 of 3).

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 01						
FIG. 1 SKIN, OUTER						
1	PAOOO		03DK6	00-010-433	TENT SECTION, MAIN BODY TYPE A, AS32, GREEN (FYA, FYC, FYE, FYU, FXL, FXN)	1
1	PAOOO		03DK6	A001-02-0409	TENT SECTION, MAIN BODY TYPE A, AS32, TAN (FYB, FYD, FYF, FYV, FXM, FXP)	1
2	PAOOO		03DK6	00-010-434	TENT SECTION, MAIN BODY TYPE B, AS32, GREEN (FYG, FYJ, FYL, FYN, FXQ, FXS, FXU)	1
2	PAOOO		03DK6	A001-02-0410	TENT SECTION, MAIN BODY TYPE B, AS32, TAN (FYH, FYK, FYM, FYP, FXR, FXT, FXV)	1
3	PAOOO		03DK6	00-010-435	TENT SECTION, MAIN BODY TYPE C, AS21, GREEN (FYQ)	1
3	PAOOO		03DK6	A001-02-0411	TENT SECTION, MAIN BODY TYPE C, AS21, TAN (FYR)	1
4	PAOOO		03DK6	00-010-436	TENT SECTION, MAIN BODY TYPE D, AS21, GREEN (FYS, FXW)	1
4	PAOOO		03DK6	A001-02-0412	TENT SECTION, MAIN BODY TYPE D, AS21, TAN (FYT, FXX)	1
5	PAOOO		03DK6	00-010-487	TENT SECTION, MAIN BODY TYPE E, AS21, GREEN (FXY)	1
5	PAOOO		03DK6	00-010-488	TENT SECTION, MAIN BODY TYPE E, AS21, TAN (FXZ)	1
6	PAOZZ		03DK6	00-010-472	. WINDOW, TENT, CLEAR (FXL, FXM, FXN, FXP, FYA, FYB, FYC, FYD, FYE, FYF, FYU, FYV)	6
6	PAOZZ		03DK6	00-010-472	. WINDOW, TENT, CLEAR (FXW, FXX, FYQ, FYR, FYS, FYT)	2
6	PAOZZ		03DK6	00-010-472	. WINDOW, TENT, CLEAR (FXQ, FXR, FXS, FXT, FXU, FXV, FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FXY, FXZ)	4
7	XDOZZ		03DK6	A001-02-0286	. LINE, TENT MAKE FROM CORD, FIBROUS, P/N 00-010-290, LENGTH 112 INCHES AND SLIP, TENT LINE (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FYA, FYB, FYC, FYD, FYE, FYF, FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FYU, FYV)	8
7	XDOZZ		03DK6	A001-02-0286	. LINE, TENT MAKE FROM CORD, FIBROUS, P/N 00-010-290, LENGTH 112 INCHES AND SLIP, TENT LINE (FXW, FXX, FXY, FXZ, FYQ, FYR, FYS, FYT)	6
8	MOOZZ		03DK6	00-010-290	. . CORD, FIBROUS, MIL-C-43256D, BLK, 3/8 INCH POLYESTER BRAID, BLACK (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FYA, FYB, FYC, FYD, FYE, FYF, FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FYU, FYV)	8
8	MOOZZ		03DK6	00-010-290	. . CORD, FIBROUS, MIL-C-43256D, BLK, 3/8 INCH POLYESTER BRAID, BLACK (FXW, FXX, FXY, FXZ, FYQ, FYR, FYS, FYT)	6

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
9	PAOZZ	8340-00-205-2759	70167	23B28045-1	. . SLIP, TENT LINE (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FYA, FYB, FYC, FYD, FYE, FYF, FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FYU, FYV)	8
9	PAOZZ	8340-00-205-2759	70167	23B28045-1	. . SLIP, TENT LINE (FXW, FXX, FXY, FXZ, FYQ, FYR, FYS, FYT)	6
10	PAOOO		03DK6	00-010-432	TENT SECTION, END, VESTIBULE, GREEN (FYA, FYE, FYG, FYL, FYQ, FXL, FXQ, FXY)	2
10	PAOOO		03DK6	00-010-432	TENT SECTION, END, VESTIBULE, GREEN (FYC, FYJ, FYN, FYS, FYU, FXN, FXS, FXU, FXW)	1
10	PAOOO		03DK6	A001-02- 0389	TENT SECTION, END, VESTIBULE, TAN (FYB, FYF, FYH, FYM, FYR, FXM, FXR, FXZ)	2
10	PAOOO		03DK6	A001-02- 0389	TENT SECTION, END, VESTIBULE, TAN (FYD, FYK, FYP, FYT, FYV, FXP, FXT, FXV, FXX)	1
11	PAOOO		03DK6	00-010-429	TENT SECTION, END, ISO SIDE, GREEN (FYJ, FYS, FXS)	1
11	PAOOO		03DK6	00-010-014	TENT SECTION, END, ISO SIDE, TAN (FYK, FYT, FXT)	1
12	PAOOO		03DK6	00-010-430	TENT SECTION, ISO END, GREEN (FYC, FXN, FXW)	1
12	PAOOO		03DK6	00-010-016	TENT SECTION, ISO END, TAN (FYD, FXP, FXX)	1
13	PAOOO		03DK6	00-010-431	TENT SECTION, END, TRICON, GREEN (FYN, FXU)	1
13	PAOOO		03DK6	00-010-018	TENT SECTION, END, TRICON, TAN (FYP, FXV)	1
14	PAOOO	8340-00-985-7461	81349	MIL-P-501	PIN, TENT, 5/8 INCH X 18 INCH (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ, FYA, FYB, FYC, FYD, FYU, FYV)	16
14	PAOZZ	8340-00-985-7461	81349	MIL-P-501	PIN, TENT, 5/8 INCH X 18 INCH (FYE, FYG, FYQ, FYF, FYH, FYR)	24
14	PAOZZ	8340-00-985-7461	81349	MIL-P-501	PIN, TENT, 5/8 INCH X 18 INCH (FYJ, FYN, FYS, FYK, FYP, FYT)	32
14	PAOZZ	8340-00-985-7461	81349	MIL-P-501	PIN, TENT, 5/8 INCH X 18 INCH (FYL, FYM)	8
15	PAOZZ		4FG04	TS- CM1X36DH	PIN, TENT 1 INCH X 36 INCH	4
16	PAOZZ	8340-01-186-3030	81349	MIL-T-44243	CONTAINER, TENT PIN (FYL, FYM)	1
16	PAOZZ	8340-01-186-3030	81349	MIL-T-44243	CONTAINER, TENT PIN (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ, FYA, FYB, FYC, FYD, FYU, FYV)	2
16	PAOZZ	8340-01-186-3030	81349	MIL-T-44243	CONTAINER, TENT PIN (FYE, FYG, FYQ, FYF, FYH, FYR)	3
16	PAOZZ	8340-01-186-3030	81349	MIL-T-44243	CONTAINER, TENT PIN (FYJ, FYN, FYS, FYK, FYP, FYT)	4
17	PAOZZ		03DK6	00-010-392	REMOVER, STAKE, 1 INCH (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXW, FXX, FXY, FXZ)	1

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
18	PAOZZ		03DK6	A001-05-0273	COVER, TENT (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1
19	MOOZZ		03DK6	00-010-290	. CORD, FIBROUS MAKE FROM MIL-C-43256D, BLK, 3/8 INCH POLYESTERBRAID, BLACK, CUT TO 135 INCHES IN LENGTH (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	2
20	MOOZZ		03DK6	00-010-290	CORD, FIBROUS MAKE FROM MIL-C-43256D, BLK, 3/8 INCH POLYESTERBRAID, BLACK, CUT TO 120 INCHES IN LENGTH (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	3
21	PAOZZ		03DK6	00-010-401	KIT, REPAIR, COVER, AS, GREEN (FXL, FXN, FXQ, FXS, FXU, FXW, FXY)	1
21	PAOZZ		03DK6	A001-02-0271	KIT, REPAIR, COVER, AS, TAN (FXM, FXP, FXR, FXT, FXV, FXX, FXZ)	1

END OF FIGURE

OPERATOR AND FIELD MAINTENANCE

ASSEMBLY, LINER

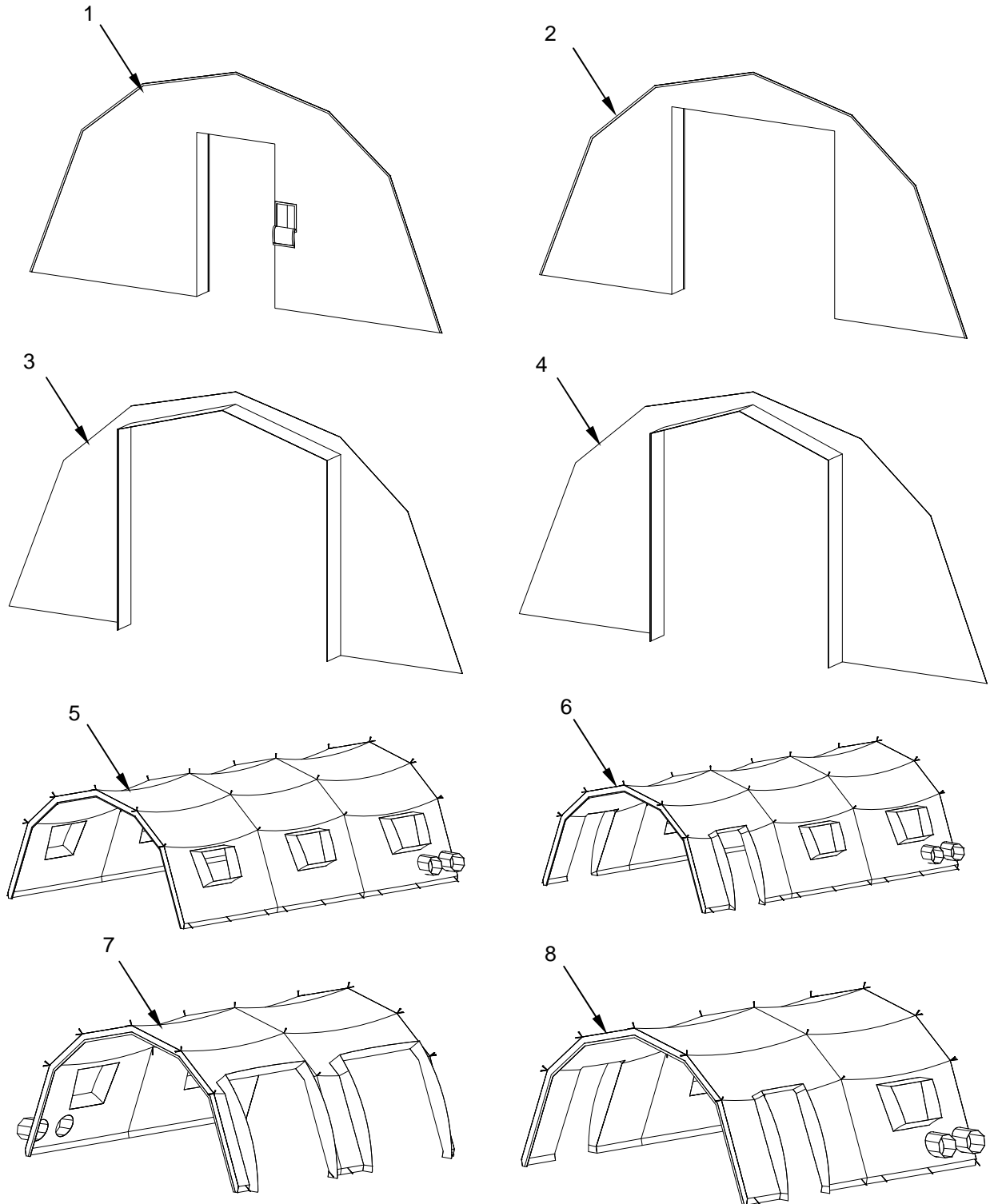


Figure 2. Assembly, Liner (Sheet 1 of 2).

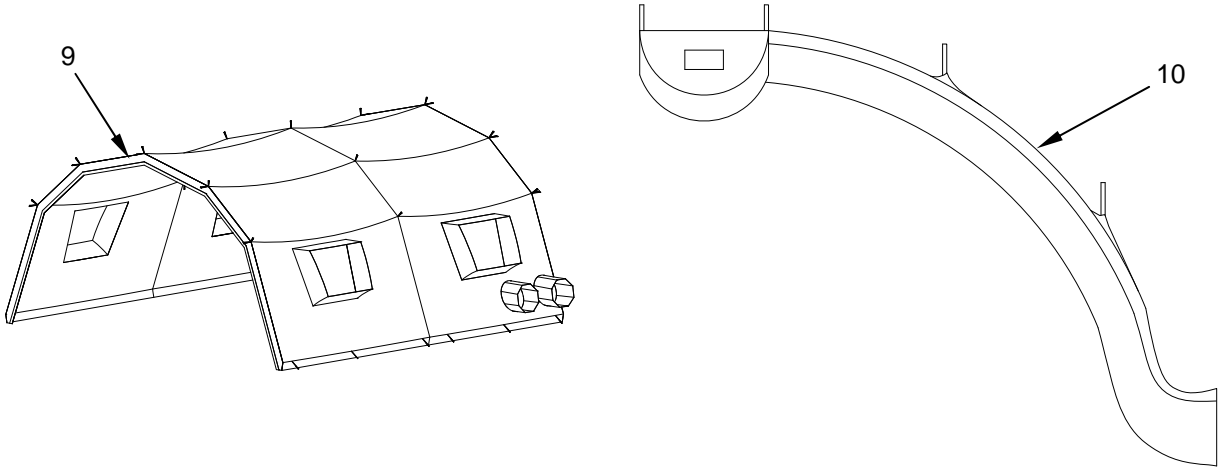


Figure 2. Assembly, Liner (Sheet 2 of 2).

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 02						
FIG. 2 ASSEMBLY, LINER						
1	PAOOO		03DK6	00-010-013	TENT LINER, THERMAL, END SECTION, VESTIBULE (FYA, FYB, FYE, FYF, FYG, FYH, FYL, FYM, FYQ, FYR, FXL, FXM, FXQ, FXR, FXY, FXZ)	2
1	PAOOO		03DK6	00-010-013	TENT LINER, THERMAL, END SECTION, VESTIBULE (FYC, FYD, FYJ, FYK, FYN, FYP, FYS, FYT, FYU, FYV, FXN, FXP, FXS, FXT, FXU, FXV, FXW, FXX)	1
2	PAOOO		03DK6	00-010-015	TENT LINER, THERMAL, ISO SIDE (FYJ, FYK, FYS, FYT, FXS, FXT)	1
3	PAOOO		03DK6	00-010-017	TENT LINER, THERMAL, ISO END (FYC, FXN, FXW, FYD, FXP, FXX)	1
4	PAOOO		03DK6	00-010-019	TENT LINER, THERMAL, TRICON (FYN, FXU, FYP, FXV)	1
5	PAOOO		03DK6	00-010-496	TENT LINER, THERMAL, TYPE A, AS32 (FYA, FYB, FYC, FYD, FYE, FYF, FYU, FYV, FXL, FXM, FXN, FXP)	1
6	PAOOO		03DK6	00-010-497	TENT LINER, THERMAL, ISO END (FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FXQ, FXR, FXS, FXT, FXU, FXV)	1
7	PAOOO		03DK6	00-010-498	TENT LINER, THERMAL, TYPE C, AS21 (FYQ, FYR)	1
8	PAOOO		03DK6	00-010-499	TENT LINER, THERMAL, TYPE D, AS21 (FYS, FYT, FXW, FXX)	1
9	PAOOO		03DK6	00-010-489	TENT LINER, THERMAL, TYPE E, AS21 (FXY, FXZ)	1
10	PAOOO		03DK6	00-010-449	PLENUM, TENT, TYPE AS21 (LENGTH 21 FEET) (FXY, FXZ)	1
9	PAOOO		03DK6	00-010-448	PLENUM, TENT, TYPE AS32 (LENGTH 32 FEET) (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV, FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1

END OF FIGURE

OPERATOR AND FIELD MAINTENANCE

ASSEMBLY, AIRBEAM

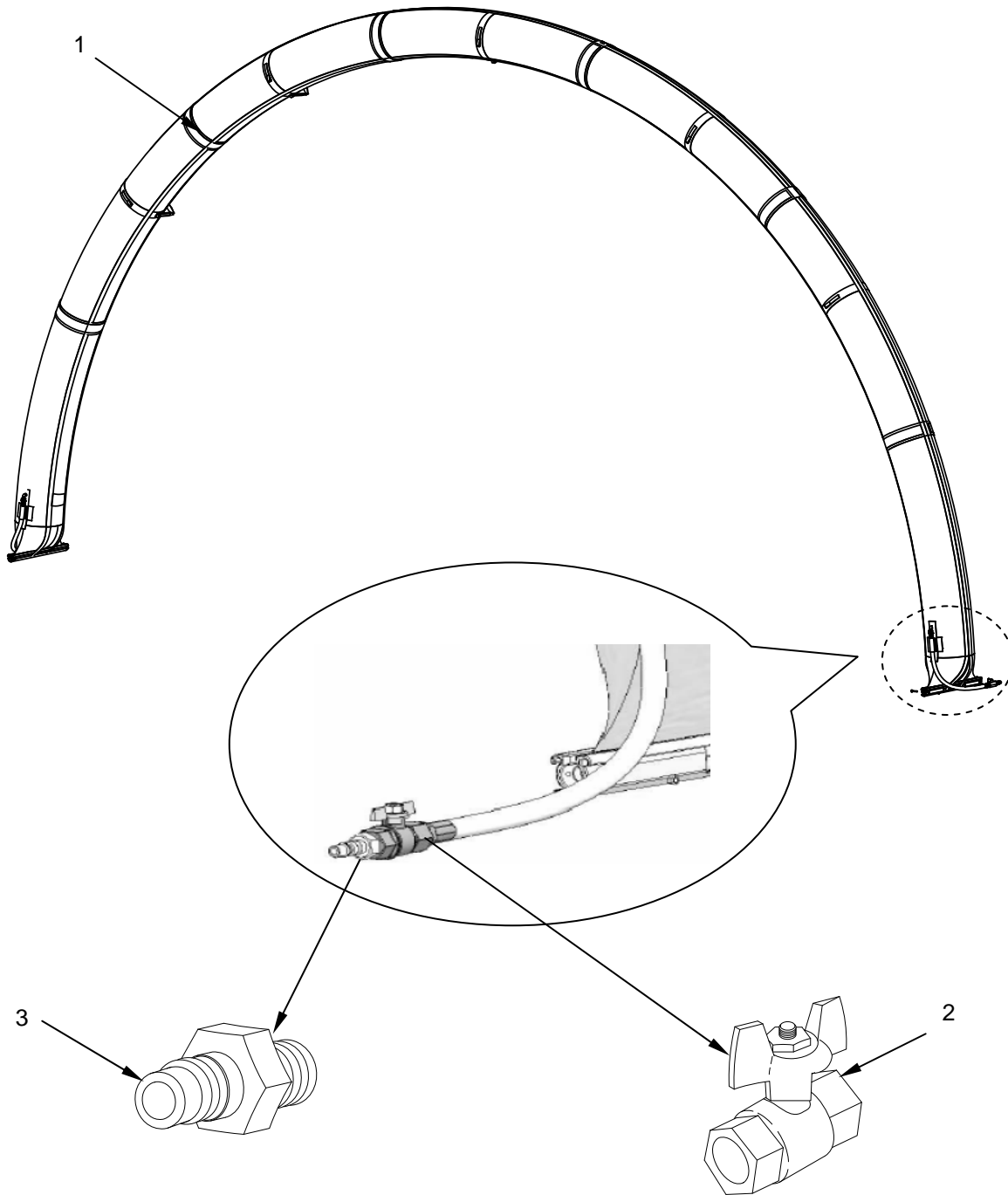


Figure 3. Assembly, Airbeam.

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 03						
FIG. 3 ASSEMBLY, AIRBEAM						
1	PAOOO		03DK6	A001-02-0028	FRAME, TENT, AIRBEAM ASSEMBLY, 10-INCH, AS (FYA, FYB, FYC, FYD, FYE, FYF, FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FYU, FYV, FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV)	4
1	PAOOO		03DK6	A001-02-0028	FRAME, TENT, AIRBEAM ASSEMBLY, 10-INCH, AS (FYQ, FYR, FYS, FYT, FXW, FXX, FXY, FXZ)	3
2	PAOZZ		97111	V520P-8-04	. VALVE, BALL (FYA, FYB, FYC, FYD, FYE, FYF, FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FYU, FYV, FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV)	8
2	PAOZZ		97111	V520P-8-04	. VALVE, BALL (FYQ, FYR, FYS, FYT, FXW, FXX, FXY, FXZ)	6
3	PAOZZ	4730-01-168-3533	97111	H2E-F	. COUPLING HALF, QUICK DISCONNECT, 3/8" MALE PLUG X 1/2" NPT M COUPLING (FYA, FYB, FYC, FYD, FYE, FYF, FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FYU, FYV, FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV)	8
3	PAOZZ	4730-01-168-3533	97111	H2E-F	. COUPLING HALF, QUICK DISCONNECT, 3/8" MALE PLUG X 1/2" NPT M COUPLING (FYQ, FYR, FYS, FYT, FXW, FXX, FXY, FXZ)	6

END OF FIGURE

OPERATOR AND FIELD MAINTENANCE

SYSTEM, INFLATION

4 Airbeam Configuration

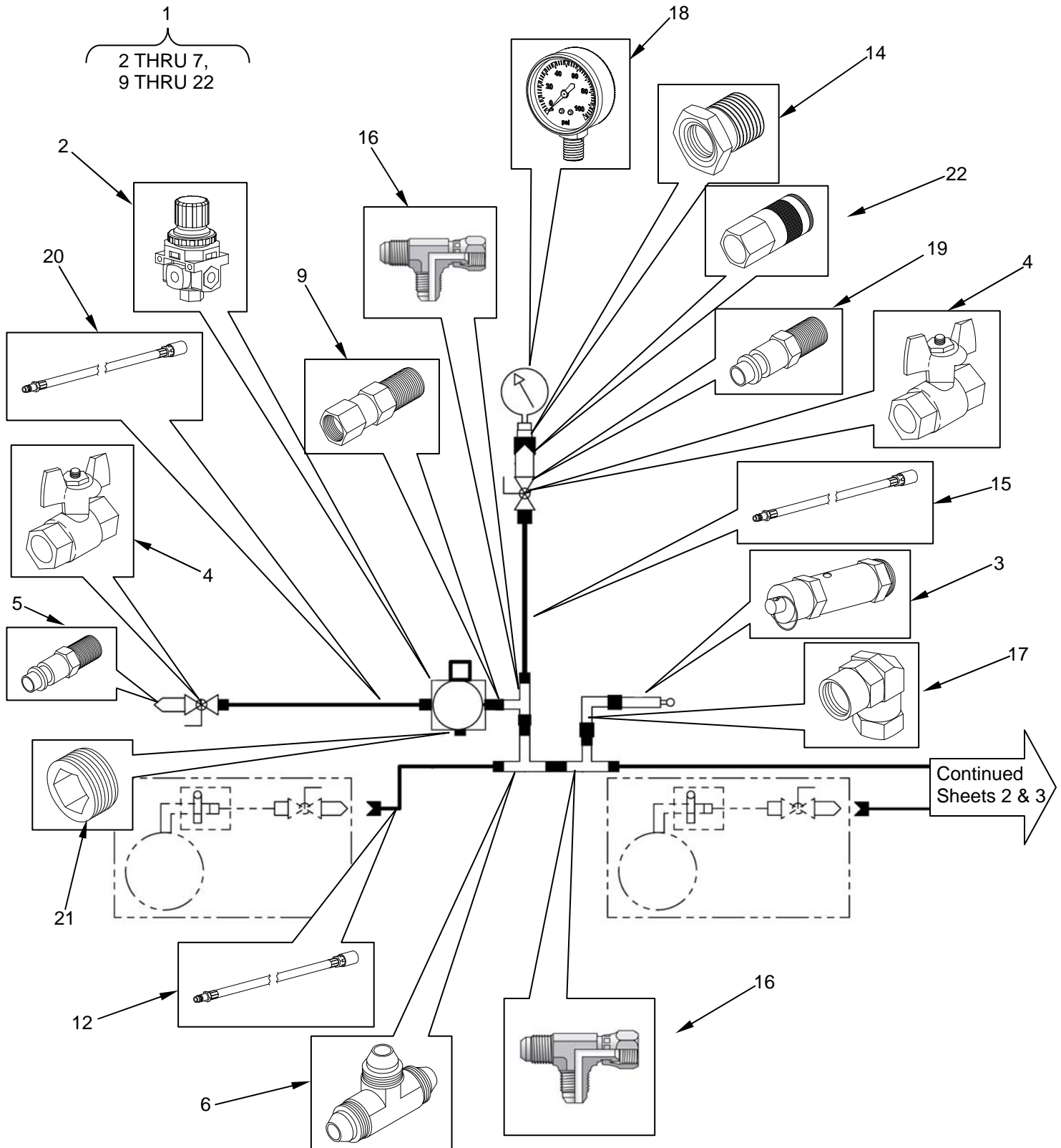


Figure 4. System, Inflation (Four Airbeam Configuration) (Sheet 1 of 5).

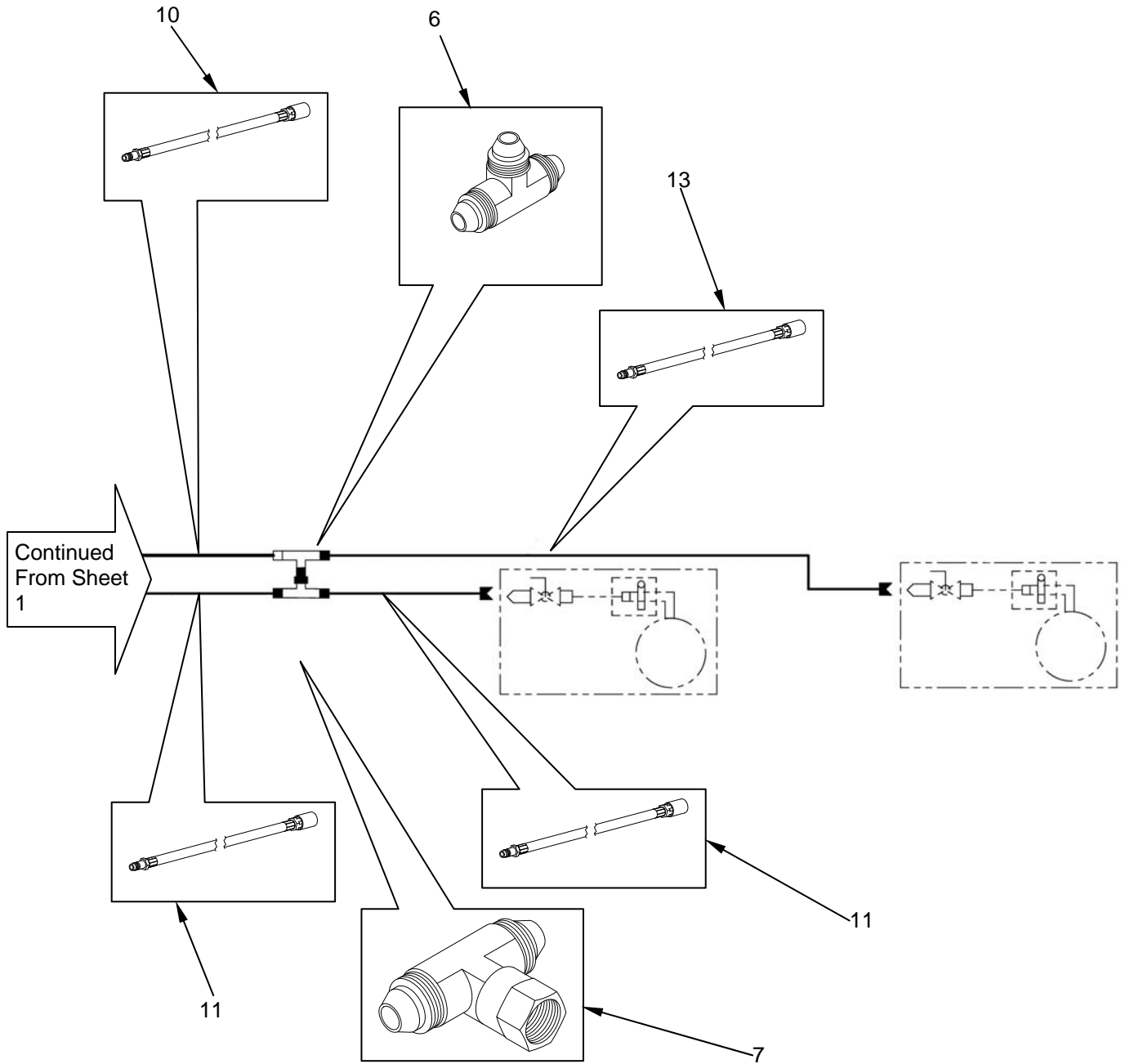


Figure 4. System, Inflation (Four Airbeam Configuration) (Sheet 2 of 5).

3 Airbeam Configuration

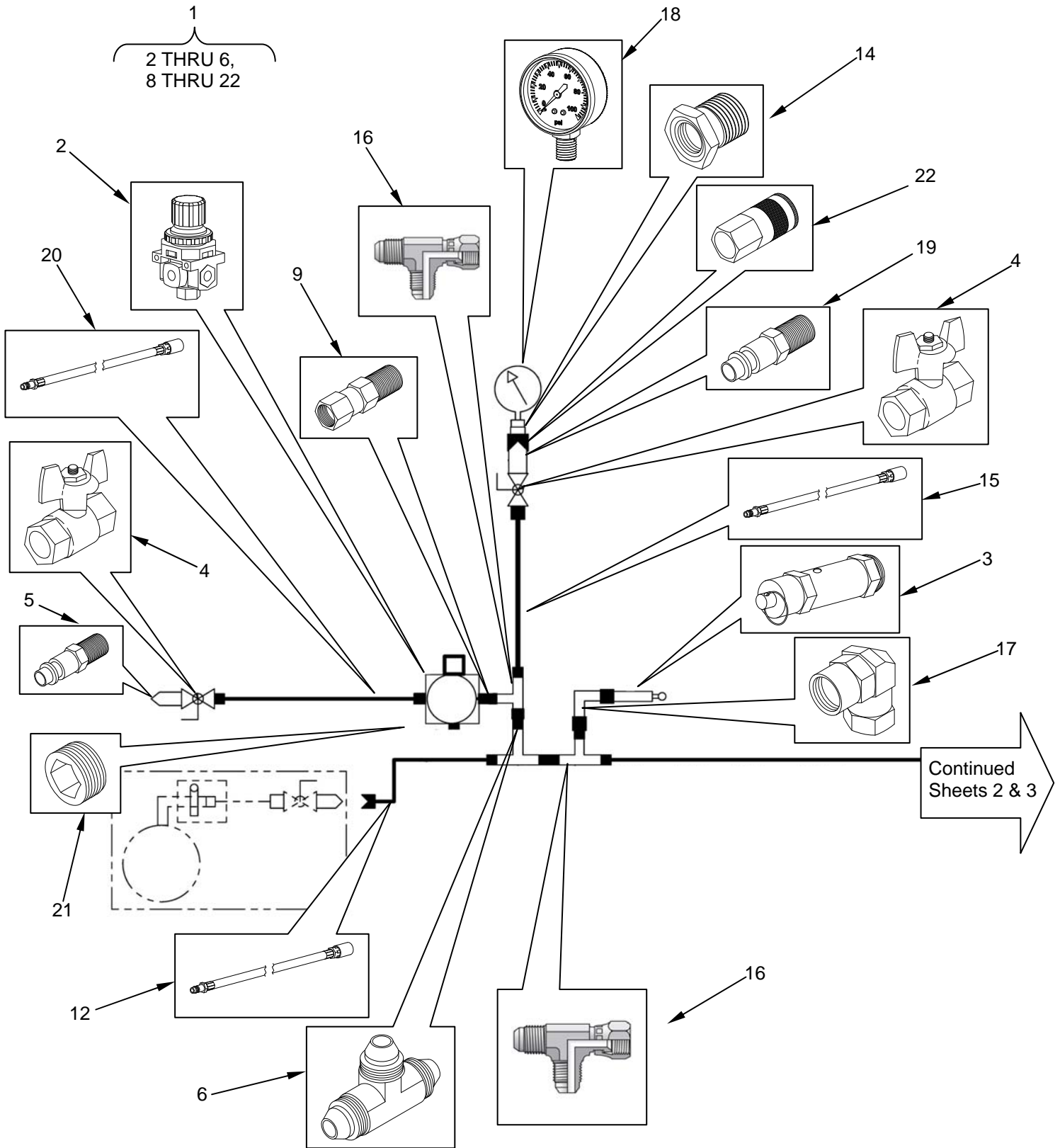


Figure 4. System, Inflation (Three Airbeam Configuration) (Sheet 3 of 5).

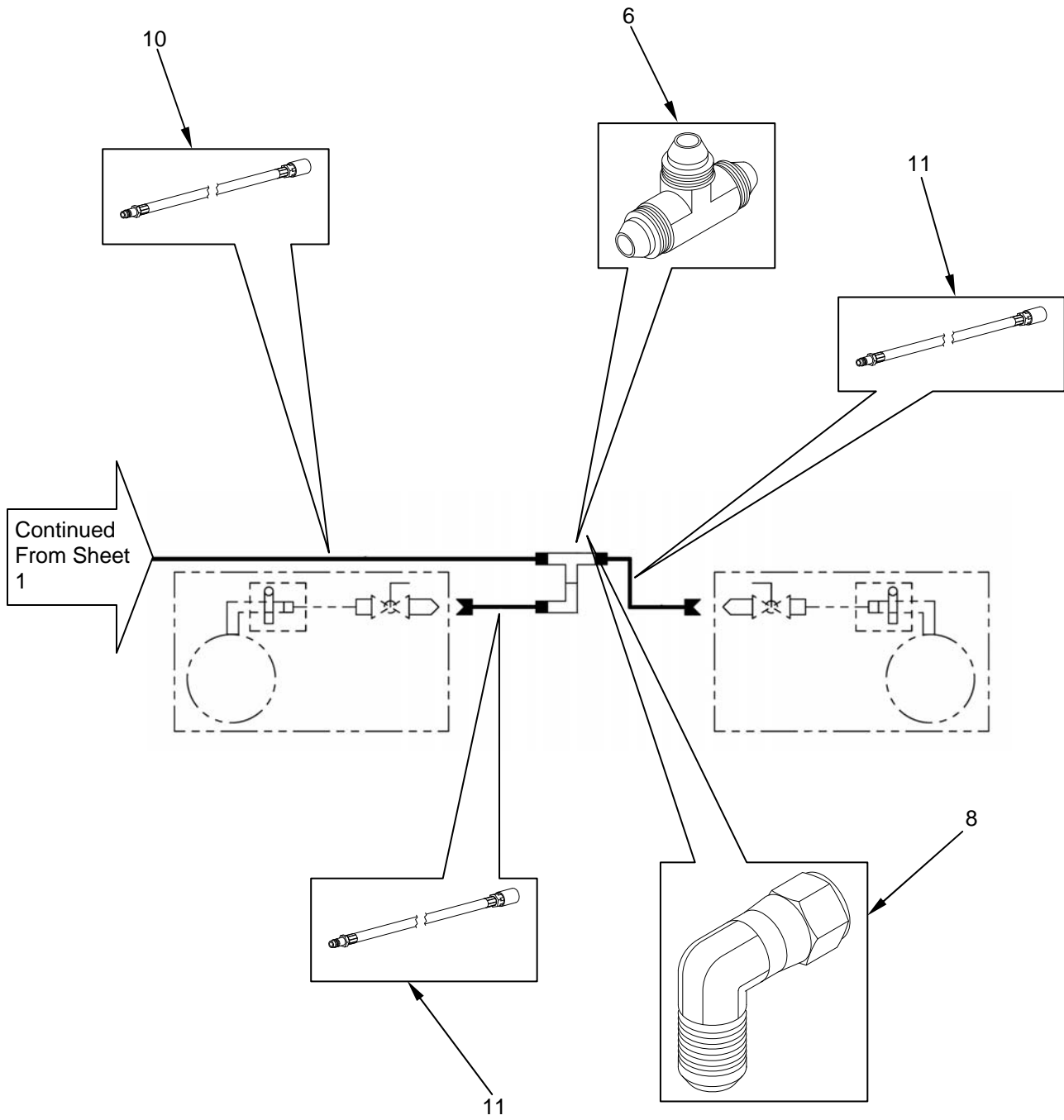


Figure 4. System, Inflation (Three Airbeam Configuration) (Sheet 4 of 5).

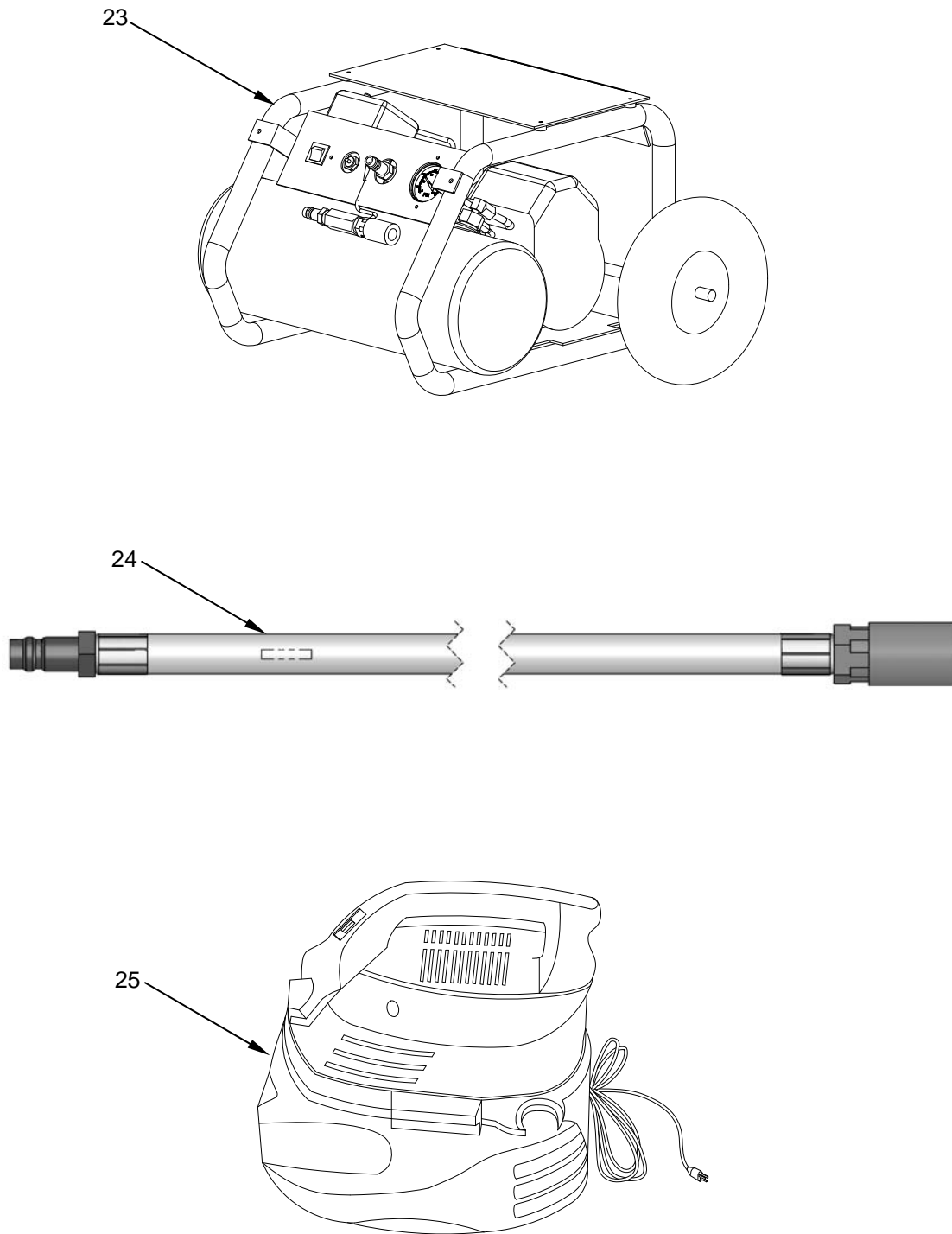


Figure 4. System, Inflation (Purge Vacuum and Compressor) (Sheet 5 of 5).

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 04						
FIG. 4 SYSTEM, INFLATION						
1	PAOOO		03DK6	A001-02-0268	MANIFOLD, AIR LINE, INFLATION (SINGLE MANIFOLD), AS32, (4 AIRBEAM) (FYA, FYB, FYC, FYD, FYE, FYF, FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FYU, FYV, FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV)	1
1	PAOOO		03DK6	A001-02-0043	MANIFOLD, AIR LINE, INFLATION, (SINGLE MANIFOLD), AS21, (3 AIRBEAM) (FYQ, FYR, FYS, FYT, FXW, FXX, FXY, FXZ)	1
2	PAOZZ		03DK6	A001-05-0214	. VALVE, REGULATING, FLUID PRESSURE, 1/2" FEM NPT X 1/2" FEM NPT, 5-125 PSI (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1
3	PAOZZ		07BY4	9889K39	. VALVE, RELIEF, PRESSURE, 70 PSI, 1/2" MALE (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1
4	PAOZZ		97111	V520P-8-04	. VALVE, BALL, 1/2" F NPT X 1/2" F NPT (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	2
5	PAOZZ	4730-01-168-3533	97111	H2E-F	. COUPLING HALF, QUICK DISCONNECT, 3/8" QUICK DISCONNECT MALE PLUG X 1/2" NPT (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1
6	PAOZZ	4730-00-804-7944	81343	AS1035-080808	. TEE, TUBE, CONNECTOR, 1/2 INCH MALE JIC (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	2
7	PAOZZ	4730-00-125-2685	81343	8-8-8070433	. TEE, TUBE, ADAPTER, SWIVEL NUT BRANCH, 1/2 INCH JIC (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FYA, FYB, FYC, FYD, FYE, FYF, FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FYU, FYV)	1
8	PAOZZ	4730-00-023-5163	81343	8-8070221C	. ELBOW, TUBE 90 DEGREE ELBOW, 1/2 IN MALE JIC X 1/2 IN FEM JIC (FXW, FXX, FXY, FXZ, FYQ, FYR, FYS, FYT)	1

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
9	PAOZZ		97111	8-8 F6X	. ADAPTER, 1/2 INCH JIC F X 1/2 IN NPT M (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1
10	PAOZZ		03DK6	A001-05- 0047	. HOSE ASSEMBLY, NONMETALLIC, 1/2 IN ID X 77 IN LONG, FEM JIC X FEM JIC (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1
11	PAOZZ		03DK6	A001-05- 0048	. HOSE ASSEMBLY, NONMETALLIC, 1/2 IN ID X 49 IN LONG, FEM JIC X FEM QD (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	2
12	PAOZZ		03DK6	A001-05- 0049	. HOSE ASSEMBLY, NONMETALLIC, 1/2 IN ID X 96 IN LONG, FEM JIC X FEM QD (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1
13	PAOZZ		03DK6	00-010-414	. HOSE ASSEMBLY, NONMETALLIC, 1/2 IN ID X 172 IN LONG, FEM JIC X 1/2 IN FEM QD (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FYA, FYB, FYC, FYD, FYE, FYF, FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FYU, FYV)	1
14	PAOZZ	4730-00-202-6491	93061	209P-6-4	. BUSHING, PIPE, REDUCING, 1/4 IN FEMALE NPT X 3/8 IN MALE NPT (FXW, FXX, FXY, FXZ, FYQ, FYR, FYS, FYT)	1
15	PAOZZ		03DK6	00-010-132	. HOSE ASSEMBLY, NONMETALLIC, 1/2 IN ID X 60 IN LONG, 1/2 INCH JIC F X 1/2 IN NPTM (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1
16	PAOZZ		97111	8 R6X	. TEE, SWIVEL RUN, 1/2 IN JIC, FEM X MALE X MALE (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	2
17	PAOZZ	4730-01-244-4667	01276	2244-8-8S	. ELBOW, PIPE TO TUBE 90 DEGREE ELBOW, 1/2 IN FEM JIC X 1/2 IN FEM NPT (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
18	PAOZZ		62091	25-901-100	. GAUGE, PRESSURE, DIAL INDICATING, 0-100 PSI, 1/4 INCH MALE NPT (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1
19	PAOZZ	4730-01-251-1031	97111	H2F	. COUPLING HALF, QUICK 1/2 IN QUICK DISCONNECT MALE PLUG X 1/2 INCH NPT MALE (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1
20	PAOZZ		03DK6	A001-05-0255	. HOSE ASSEMBLY, NONME 1/2 IN ID X 60 IN LONG, 1/2 IN M NPT X 1/2 IN M NPT (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1
21	PAOZZ		97111	1072A21	. PIPE, PLUG, 1/4 INCH NPT, HEX-SOCKET (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1
22	PAOZZ		97111	17E	. COUPLING, 1/2 INCH QD FEMALE X 3/8 INCH FEMALE NPT (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1
23	PAOZZ		81337	5-13-8225-1	COMPRESSOR, UNIT, RECIPRICATING (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
24	PAOZZ		03DK6	00-010-493	HOSE ASSEMBLY, NONMETALLIC, 3/8 INCH ID X 120 IN LENGTH (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
25	PAOOO		81337	5-13-8226-1	CLEANER, VACUUM, ELECTRIC, AS (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	1

END OF FIGURE

UNIT MAINTENANCE

SYSTEM, ELECTRICAL

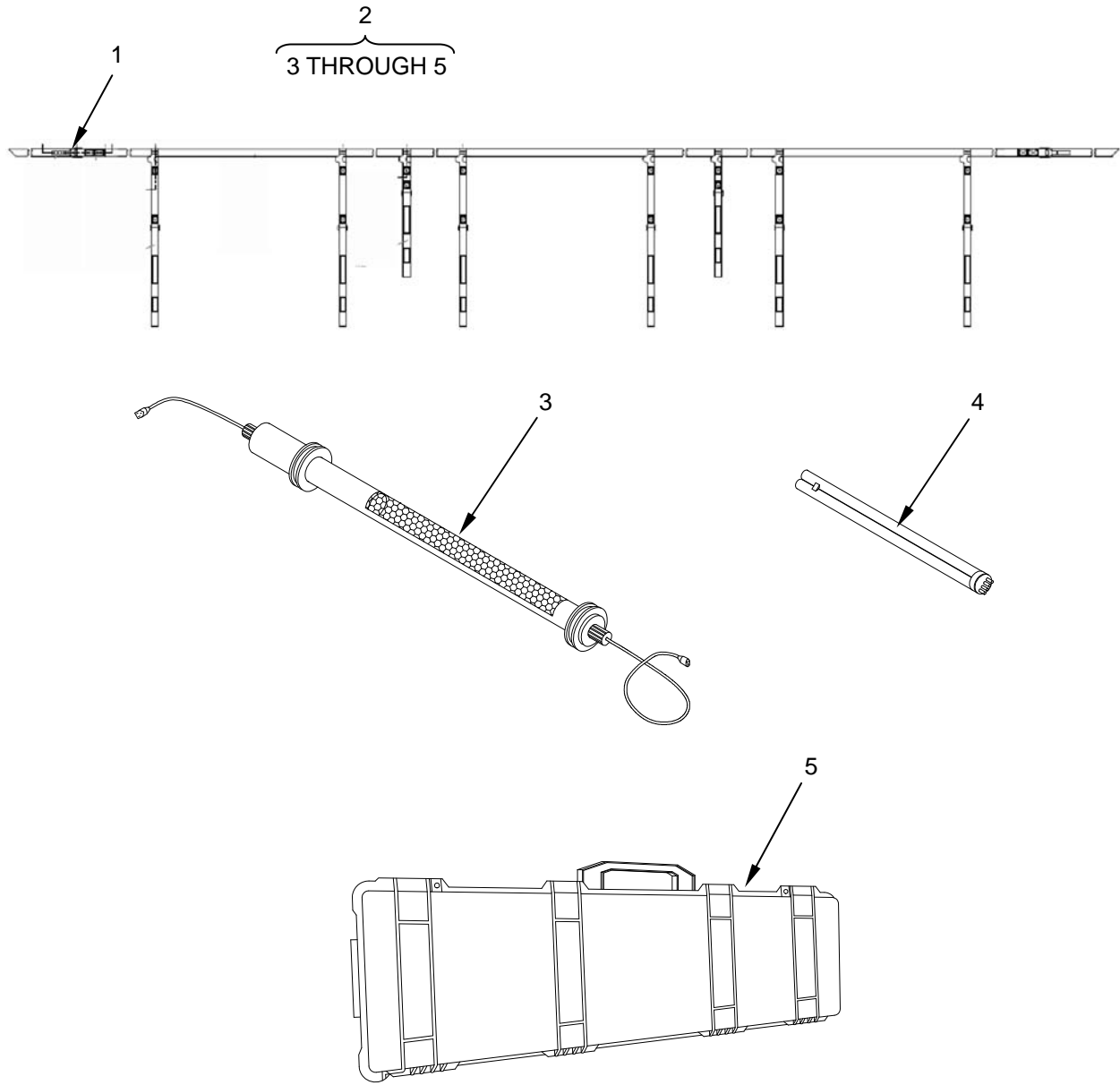


Figure 5. System, Electrical (Lighting) (Sheet 1 of 6).

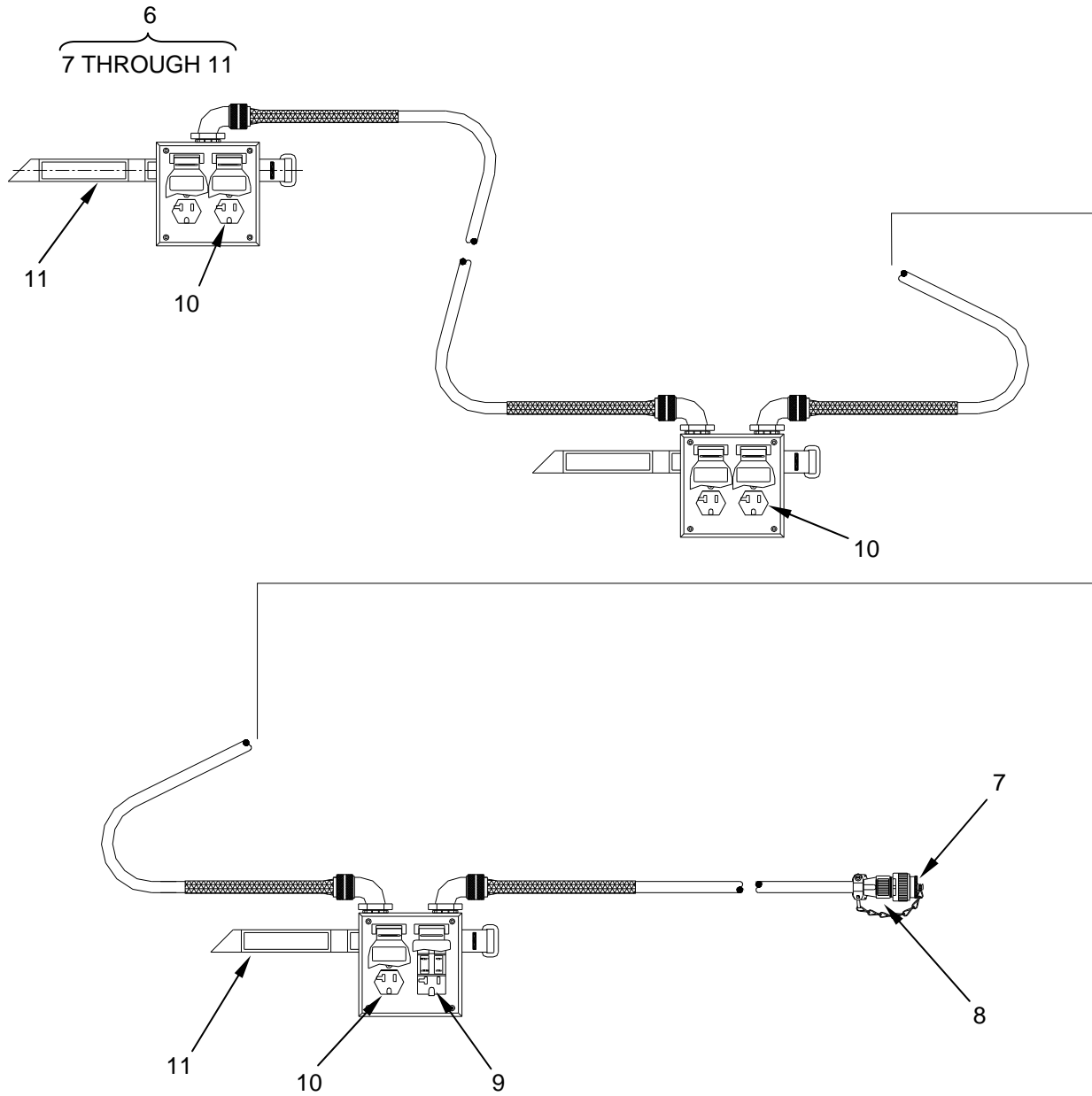


Figure 5. System, Electrical (Convenience Outlets) (Sheet 2 of 6).

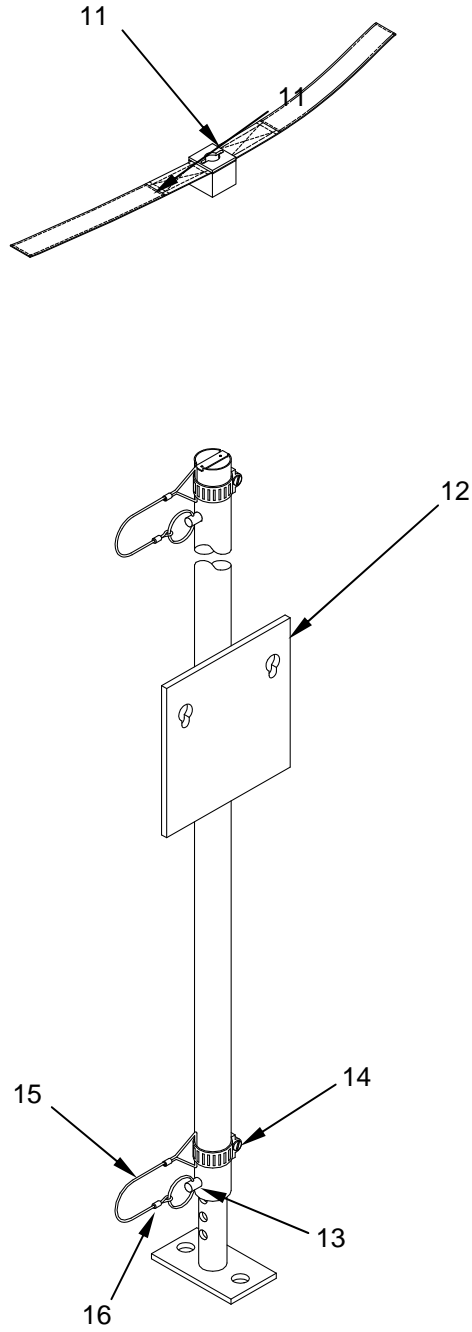


Figure 5. System, Electrical (Power Distribution Box Stand) (Sheet 3 of 6).

17
18 THROUGH 63

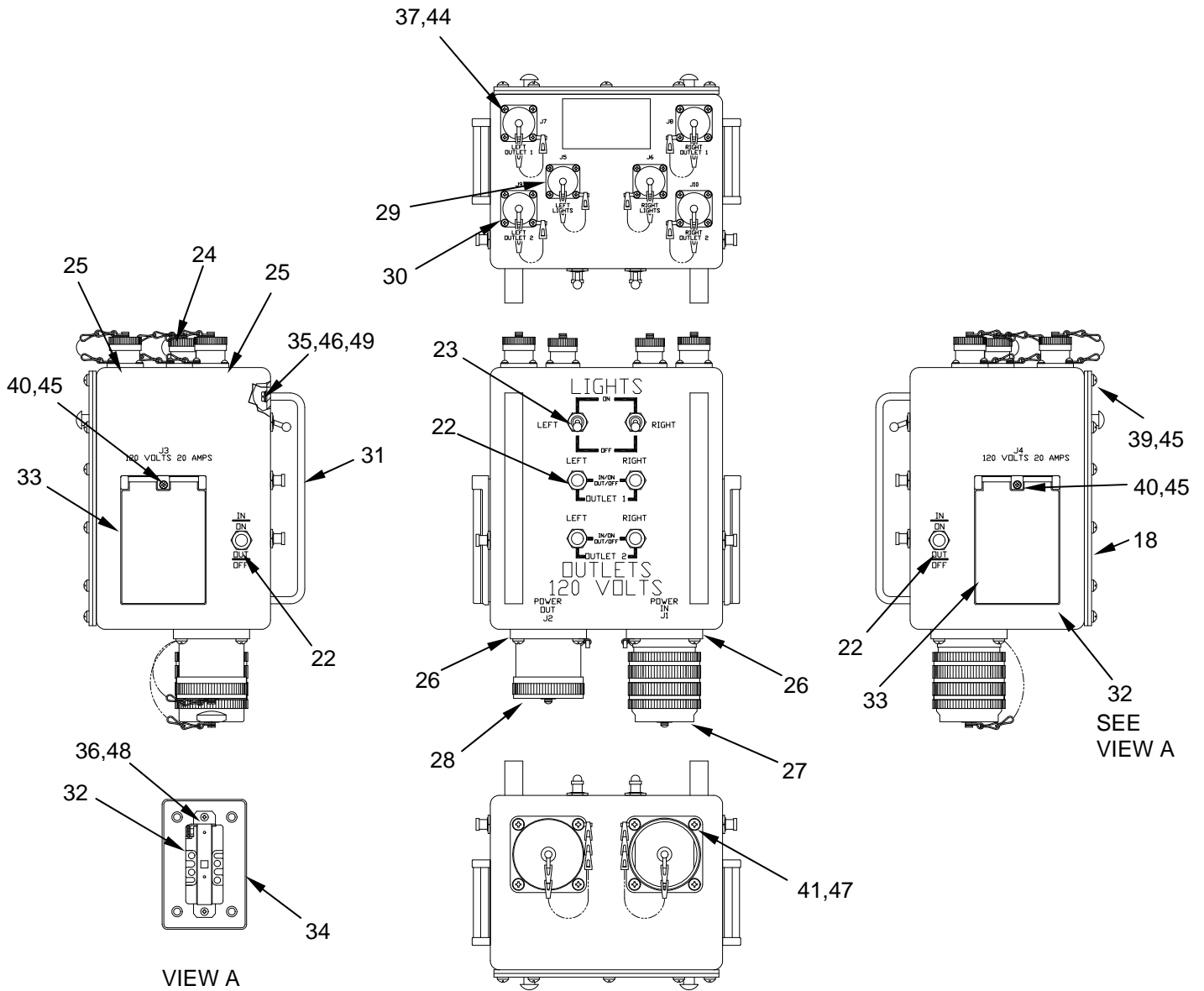


Figure 5. System, Electrical (Power Distribution Box) (Sheet 4 of 6).

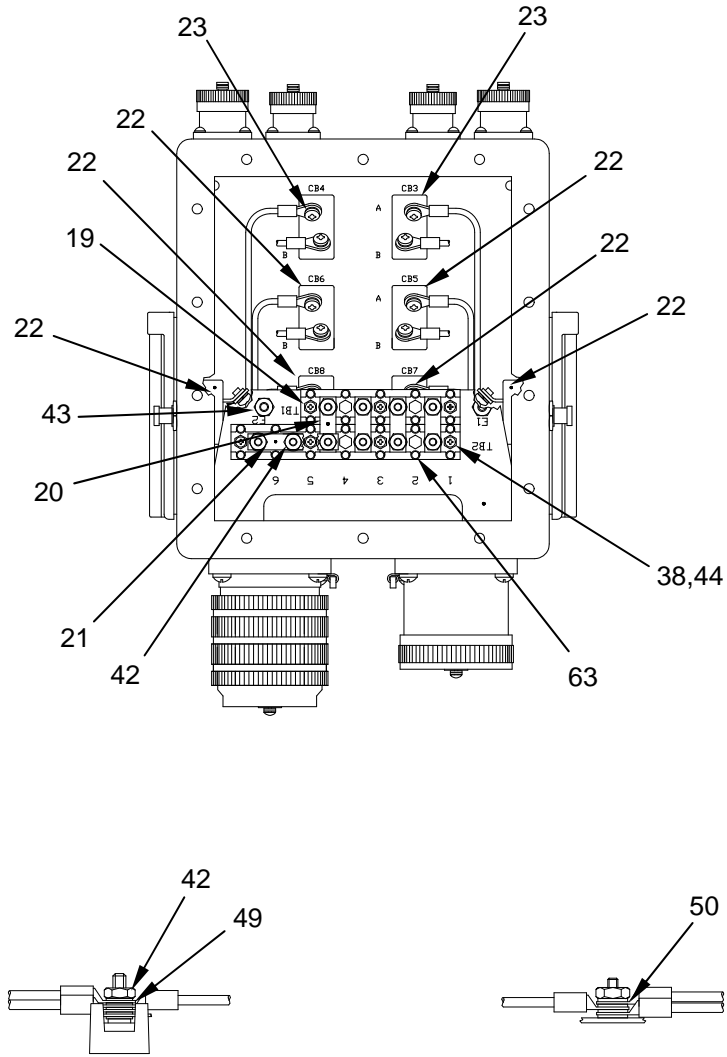


Figure 5. System, Electrical (Power Distribution Box) (Sheet 5 of 6).

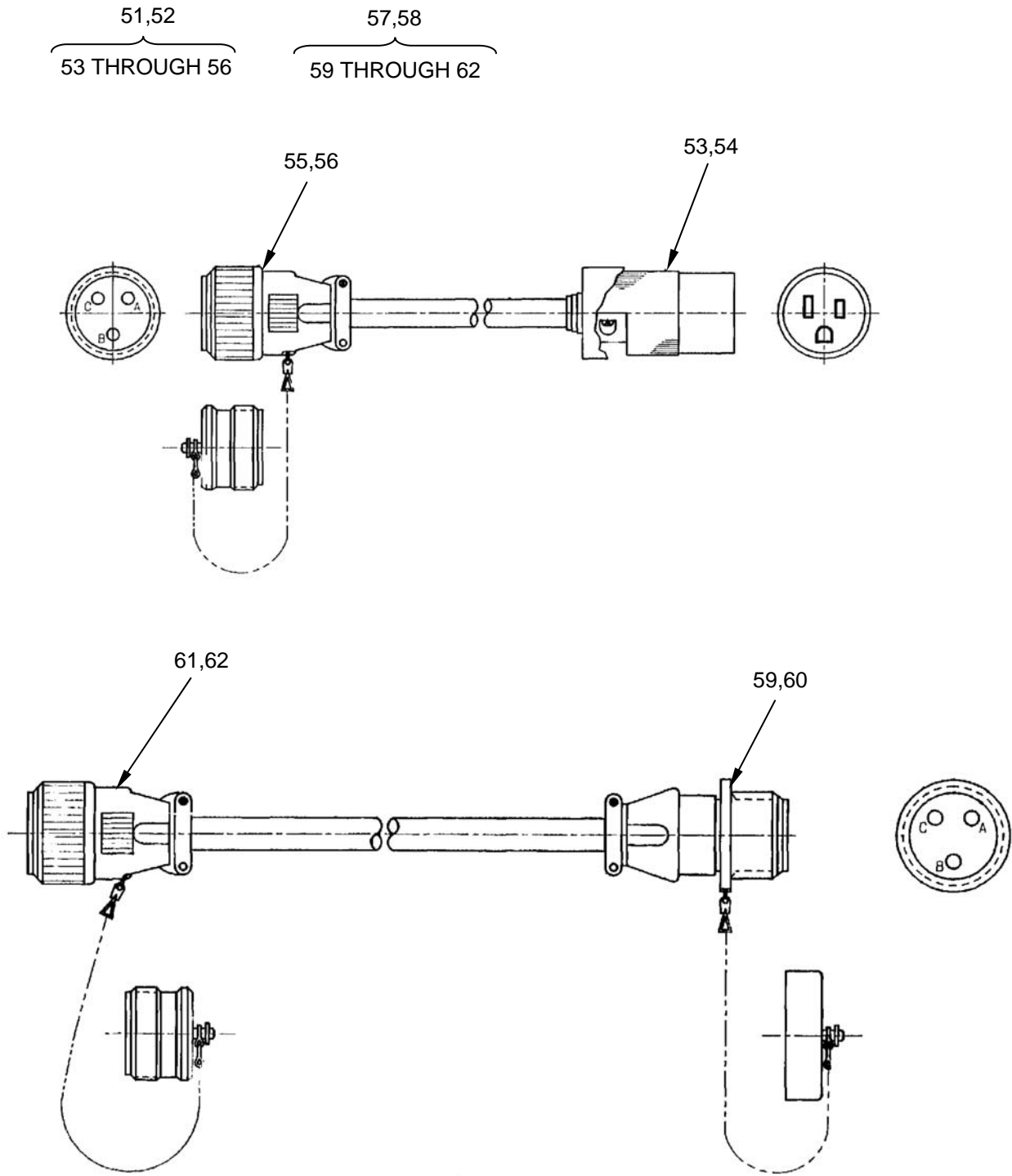


Figure 5. System, Electrical (Connecting Cables) (Sheet 6 of 6).

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 05						
FIG. 5 SYSTEM, ELECTRICAL						
1	PAOZZ		3T4E3	LT200142	STRAP, RETAINING, LIGHT, AS32 (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FXV, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT)	2
1	PAOZZ		3T4E3	LT200141	STRAP, RETAINING, LIGHT, AS21 (FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	2
2	PAOOO	6230-01-519-0393	06967	31-MC-502S	CASE, LIGHT SET (4 LIGHT SET) (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FYA, FYB, FYC, FYD, FYE, FYF, FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FYU, FYV)	2
2	PAOOO		06967	31-MC-502 FSB	CASE, LIGHT SET (3 LIGHT SET) (FXW, FXX, FXY, FXZ, FYQ, FYR, FYS, FYT)	2
3	PAOOO	6230-01-485-6375	06967	31-502SK-IP	. LIGHT UNIT, PORTABLE (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FYA, FYB, FYC, FYD, FYE, FYF, FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FYU, FYV)	4
3	PAOOO	6230-01-485-6375	06967	31-502SK-IP	. LIGHT UNIT, PORTABLE (FXW, FXX, FXY, FXZ, FYQ, FYR, FYS, FYT)	3
4	PAOZZ	6230-01-506-9387	06967	31-1-50	.KIT, RELAMPING (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXVFXQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	2
5	PAOZZ	6210-01-510-0935	06967	31-MC	.CASE, LIGHT (HARD CASE ONLY) (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXVFXQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	2
6	PAOOO	6150-01-470-1916	81337	9-1-0624-1	DISTRIBUTING SYSTEM, ELECTRICAL (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
7	PAOZZ	5935-01-189-3220	96906	MS25042- 16A	. COVER, ELECTRICAL CONNECTOR (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
8	PAOZZ		71468	CA06R16- 10PF80	. CONNECTOR, PLUG ELECTRICAL FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ	1
9	PAOZZ	5935-01-549-6337	74545	GFR5352A	CONNECTOR, RECEPTACLE, ELECTRICAL (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
10	PAOZZ		74545	CR5352	CONNECTOR, RECEPTACLE, ELECTRICAL (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
11	PAOZZ		03DK6	A001-02-0336	STRAP ASSEMBLY, TOP, POWER DISTRIBUTION POLE (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	3
12	PAOZZ	6110-01-242-6691	81337	1-6-6005-2	STAND, DISTRIBUTION BOX (MODIFIED) (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
13	XBOZZ		81349	M45052/1-C4-13	. QUICK RELEASE PIN 0.25 IN MIN OD X 1.25 IN LONG (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
14	XBOZZ	4730-01-088-3200	81348	WW-C-440 TYPE F	. CLAMP, HOSE 0.5 IN MIN, 1.25 IN MAX OD (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
15	XBOZZ	4010-00-929-0041	81349	M83420/4-001	. ROPE, WIRE, PREFORMED 0.05 IN DIA, LENGTH 12 INCHES (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
16	XBOZZ	4030-01-021-6339	30003	2842687-3	. SWAGING SLEEVE, WIRE ROPE (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
17	PAOZZ	6110-01-251-0402	81337	1-6-6041-1	DISTRIBUTION BOX, POWER, TYPE III/120V (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
18	XBOZZ		81337	1-6-7249-1	. COVER, TYPE III/120V (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
19	PAOZZ	5940-00-926-8120	96906	MS27212-6-4	. TERMINAL BOARD (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
20	PAOZZ	6150-00-557-7653	81343	MS25226-4-2	. BUS, CONDUCTOR, LINK, TERMINAL, CONNECTING (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	4
21	PAOZZ	6150-00-557-7656	96906	MS25226-4-3	. BUS, CONDUCTOR, CONNECTING (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
22	PAOZZ	5925-00-755-7906	82647	7271-8-20	. CIRCUIT BREAKER, CB1, CB2, CB5, THROUGH CB8 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	6
23	PAOZZ	5925-00-837-8964	96906	MS24509-A-10	. CIRCUIT BREAKER, CB3, CB4 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	2
24	PAOZZ	5330-00-641-1541	77820	10-36675-14	. GASKET, LOW TEMP, SHELL SIZE 14 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	2
25	PAOZZ	5330-00-292-3958	77820	10-36675-16	. GASKET, LOW TEMP, SHELL SIZE 16 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	4
26	PAOZZ	5330-00-298-0189	77820	10-36675-36	. GASKET, LOW TEMP, SHELL SIZE 32 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	2
27	PAOZZ	5935-00-114-5781	96906	MS90564-3C	. COVER, ELECTRICAL CONNECTOR, W/ CHAIN J1 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
28	PAOZZ	5935-00-114-8061	96906	MS90563-3C	. COVER, ELECTRICAL CONNECTOR, W/ CHAIN J2 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
29	PAOZZ	5935-01-181-6651	96906	MS25043-14DA	. COVER, ELECTRICAL CONNECTOR, W/ CHAIN J5, J6 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	2
30	PAOZZ	5935-01-184-7188	96906	MS25043-16DA	. COVER, ELECTRICAL CONNECTOR, W/ CHAIN J7 THROUGH J10 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	4
31	XBOZZ		9W423	11495-A-0832	. HANDLE, RECT, AL, ALY, 7 INCH (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	2
32	PAOZZ	5935-01-549-6337	74545	GFR5352A	CONNECTOR, RECEPTACLE, ELECTRICAL (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	2
33	XBOZZ		15235	WRLD-1	. COVER, ELECTRICAL CONNECTOR, DUPLEX, (J3, J4) (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	2
34	PAOZZ		83317	1-6-7244-1	. GASKET, OUTLET (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	2
35	PAOZZ	5305-00-054-6669	96906	MS51957-44	. SCREW, MACHINE CRES, PAN HEAD, NO. 8-32 X .44L (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	4
36	PAOZZ	5305-00-054-6649	96906	MS51957-25	. SCREW, MACHINE CRES, PAN HEAD, NO. 6-32 X .19L (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	4
37	PAOZZ	5305-00-054-5649	96906	MS51957-15	. SCREW, MACHINE CRES, PAN HEAD, NO. 4-40 X .38L (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	24
38	PAOZZ	5305-00-054-5651	96906	MS51957-17	. SCREW, MACHINE CRES, PAN HEAD, NO. 4-40 X .50L (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	7
39	PAOZZ	5305-00-054-6655	96906	MS51957-31	. SCREW, MACHINE CRES, PAN HEAD, NO. 6-32 X .62L (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	14
40	PAOZZ	5305-00-054-6656	96906	MS51957-32	. SCREW, MACHINE CRES, PAN HEAD, NO. 6-32 X .75L (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	8
41	PAOZZ	5305-00-059-3663	96906	MS51958-67	. SCREW, MACHINE CRES, PAN HEAD, NO. 10-32 X 1.00L (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	8
42	PAOZZ	5310-00-982-6814	96906	MS21044C08	. NUT, SELF-LOCKING HEXAGON, NO. 8-32 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
43	PAOZZ	5310-00-079-6474	96906	MS21044-C10	. NUT, SELF-LOCKING HEXAGON, NO. 10-32 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	2
44	PAOZZ	5310-99-136-2749	96906	MS15795-803	. WASHER, FLAT, CRES, NO. 4 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	31
45	PAOZZ	5310-00-480-3641	96906	MS15795-845	. WASHER, FLAT, CRES, NO. 6 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	26
46	PAOZZ	5310-00-880-5978	96906	MS15795-807	. WASHER, FLAT, CRES, NO. 8 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	4
47	PAOZZ	5310-00-615-1556	96906	MS15795-846	. WASHER, FLAT, CRES, NO. 10 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	8
48	PAOZZ	5310-00-616-3555	96906	MS35333-71	. WASHER, LOCK, INTNL TOOTH, NO. 6 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	4
49	PAOZZ	5310-00-543-2739	96906	MS35333-72	. WASHER, LOCK, INTNL TOOTH, NO. 8 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	44
50	PAOZZ	5310-00-543-5933	96906	MS35333-73	. WASHER, LOCK, INTNL TOOTH, NO. 10 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	10
51	PAOOO	6150-01-354-5842	81337	1-6-6044-3	. CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, LIGHT TYPE III AND IV, LENGTH 173 INCHES (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
52	PAOOO	6150-01-354-5841	81337	1-6-6044-1	. CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, LIGHT TYPE III AND IV, LENGTH 103 INCHES (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
53	PAOZZ	5935-01-012-3066	74545	5269-C	. . CONNECTOR, PLUG, ELECTRICAL, REGULAR, INSULGRIP (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
54	PAOZZ	5930-01-423-5769	74545	6018	. . BOOT, DUST AND MOISTURE SEAL, SEALTIGHT (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
55	PAOZZ		08718	CA06R14S-7P-F80	. . CONNECTOR, ELECTRICAL PLUG STRAIGHT (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
56	PAOZZ	5935-01-181-6651	96906	MS25042-14DA	. . COVER, ELECTRICAL CONNECTOR (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
57	PAOOO	6150-01-353-5731	81337	1-6-6043-1	. CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, TYPE III,LENGTH 156 INCHES (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
58	PAOOO	6150-01-353-5732	81337	1-6-6043-2	. CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, TYPE III, LENGTH 254 INCHES (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	2

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
59	PAOZZ		08718	CA3101E16-10S-F80	. . CONNECTOR, PLUG ELECTRICAL CABLE CONNECTOR (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
60	PAOZZ	5935-01-184-7188	96906	MS25043-16DA	. . COVER, ELECTRICAL CONNECTOR (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
61	PAOZZ		08718	CA06R16-10P-F80	. . CONNECTOR, PLUG ELECTRICAL STRAIGHT (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
62	PAOZZ	5935-01-189-3220	96906	MS25042-16DA	. . COVER, ELECTRICAL CONNECTOR, W/CHAIN, J7 THROUGH J10 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1
63	PAOZZ	5940-01-105-8085	96906	MS27212-6-6	. TERMINAL BOARD, 6 POS, TB2 (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ)	1

END OF FIGURE

OPERATOR AND FIELD MAINTENANCE

ASSEMBLY, VESTIBULE

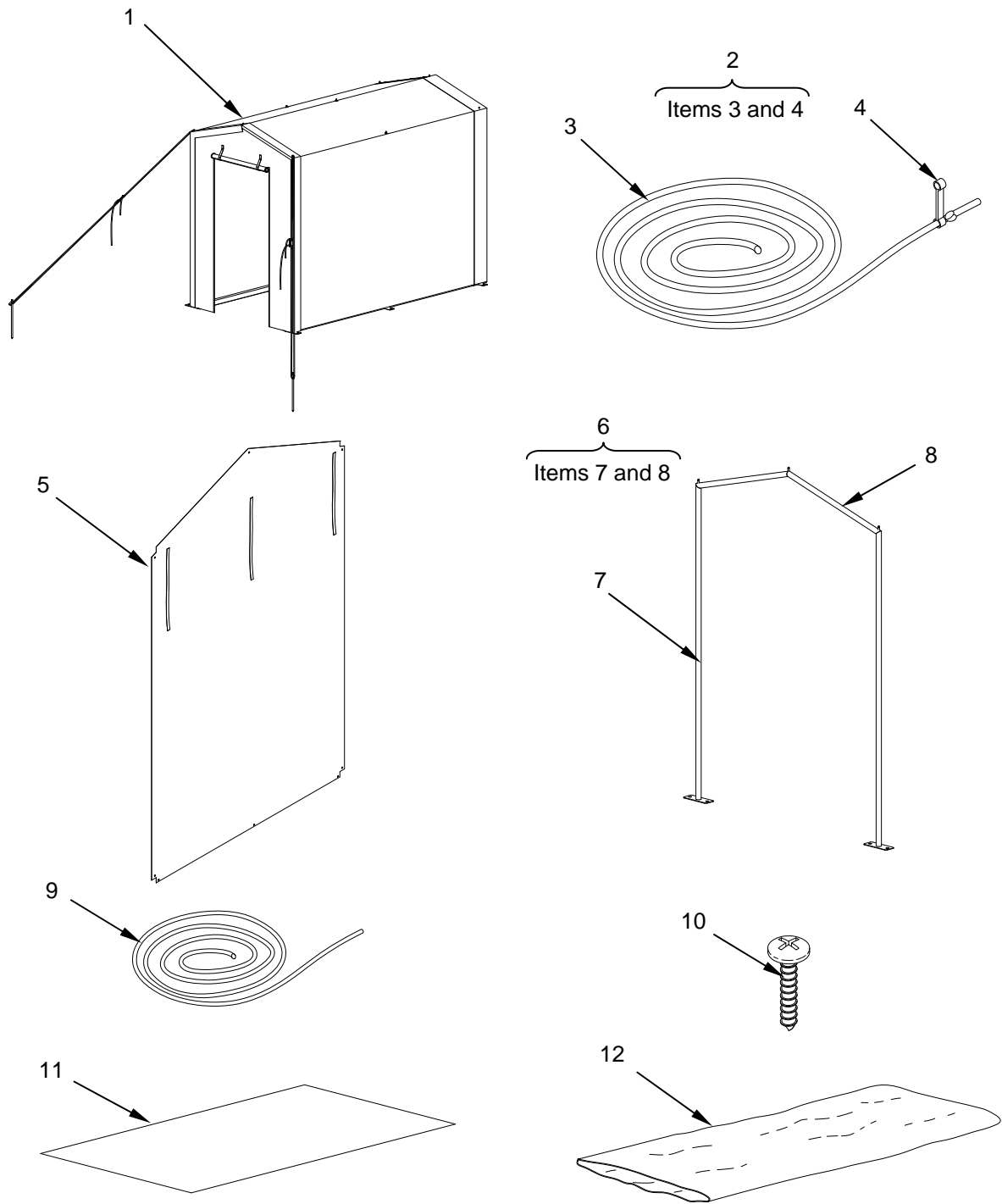


Figure 6. Assembly, Vestibule.

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 06						
FIG. 6 ASSEMBLY, VESTIBULE						
1	PAOOO	8340-01-186-3026	81337	5-4-3370	VESTIBULE, TENT, GREEN, WITH DOOR (FYJ, FYN, FYS)	3
1	PAOOO	8340-01-186-3026	81337	5-4-3370	VESTIBULE, TENT, GREEN, WITH DOOR (FYE, FYG, FYQ)	2
1	PAOOO	8340-01-186-3026	81337	5-4-3370	VESTIBULE, TENT, GREEN, WITH DOOR (FYA, FYC, FYU, FXL, FXN, FXQ, FXS, FXU, FXW, FXY)	1
1	PAOOO	8340-01-198-7621	81337	5-4-3370-2	VESTIBULE, TENT, TAN, WITH DOOR (FYK, FYP, FYT)	3
1	PAOOO	8340-01-198-7621	81337	5-4-3370-2	VESTIBULE, TENT, TAN, WITH DOOR (FYF, FYH, FYR)	2
1	PAOOO	8340-01-198-7621	81337	5-4-3370-2	VESTIBULE, TENT, TAN, WITH DOOR (FYB, FYD, FYV, FXM, FXP, FXR, FXT, FXV, FXX, FXZ)	1
2	XDOZZ		81337	5-4-3370-2- 20	. LINE, TENT MAKE FROM CORD, FIBROUS, P/N 00-010-290, LENGTH 19 FEET AND SLIP, TENT LINE (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV, FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	8
3	MOOZZ		03DK6	00-010-290	. . CORD, FIBROUS, MIL-C-43256D, BLK 3/8 INCH POLYESTER BRAID, BLACK (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV, FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	8
4	PAOZZ	8340-00-205-2759	70167	23B28045-1	. . SLIP, TENT LINE (FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV, FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ)	8
5	PAOZZ	8340-01-440-8901	81337	5-4-3371-1	. DOOR, TENT GREEN (FYJ, FYN, FYS, FYE, FYG, FYQ, FXL, FXN, FXQ, FXS, FXU, FXW, FXY, FYA, FYC, FYU)	1
6	PAOZZ	8340-01-186-3010	81337	5-4-3343	FRAME SECTION, TENT VESTIBULE (FYJ, FYN, FYS, FYK, FYP, FYT)	9
6	PAOZZ	8340-01-186-3010	81337	5-4-3343	FRAME SECTION, TENT VESTIBULE (FYE, FYG, FYQ, FYF, FYH, FYR)	6
6	PAOZZ	8340-01-186-3010	81337	5-4-3343	FRAME SECTION, TENT VESTIBULE (FYA, FYC, FYU, FXL, FXN, FXQ, FXS, FXU, FXW, FXY, FYB, FYD, FYV, FXM, FXP, FXR, FXT, FXV, FXX, FXZ)	3
7	PAOZZ	8340-01-186-3011	81337	5-4-3344	. DOOR, POST, TENT (FYJ, FYK, FYN, FYP, FYS, FYT, FYE, FYF, FYG, FYH, FYQ, FYR, FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ, FYA, FYB, FYC, FYD, FYU, FYV)	2

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
8	PAOZZ	8340-01-186-3012	81337	5-4-3345	. HEADER, TENT FRAME (FYJ, FYK, FYN, FYP, FYS, FYT, FYE, FYF, FYG, FYH, FYQ, FYR, FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ, FYA, FYB, FYC, FYD, FYU, FYV)	1
9	PAOZZ	4010-01-241-3894	81337	5-4-3346	. WIRE ROPE ASSEMBLY, SINGLE LEG (FYJ, FYK, FYN, FYP, FYS, FYT, FYE, FYF, FYG, FYH, FYQ, FYR, FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ, FYA, FYB, FYC, FYD, FYU, FYV)	2
10	PAOZZ	5305-00-855-0960	80205	MS24629-36	. SCREW, TAPPING (FYJ, FYK, FYN, FYP, FYS, FYT, FYE, FYF, FYG, FYH, FYQ, FYR, FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ, FYA, FYB, FYC, FYD, FYU, FYV)	2
11	PAOZZ	8340-01-198-7623	81337	5-4-3372	FLOOR, TENT VESTIBULE, GREY (FYK, FYP, FYTFYS, FYJ, FYN)	3
11	PAOZZ	8340-01-198-7623	81337	5-4-3372	FLOOR, TENT VESTIBULE, GREY (FYE, FYG, FYQ, FYR, FYF, FYH)	2
11	PAOZZ	8340-01-198-7623	81337	5-4-3372	FLOOR, TENT VESTIBULE, GREY (FXL, FXN, FXQ, FXS, FXU, FXW, FXY, FYA, FYC, FYU, FXM, FXP, FXR, FXT, FXV, FXX, FXZ, FYB, FYD, FYV)	1
12	PAOZZ	8340-01-186-3029	81337	5-4-3374-1	CONTAINER, TENT VESTIBULE (FYJ, FYN, FYS, FYK, FYP, FYT)	3
12	PAOZZ	8340-01-186-3029	81337	5-4-3374-1	CONTAINER, TENT VESTIBULE (FYE, FYG, FYQ, FYF, FYH, FYR)	2
12	PAOZZ	8340-01-186-3029	81337	5-4-3374-1	CONTAINER, TENT VESTIBULE (FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ, FYA, FYB, FYC, FYD, FYU, FYV)	1

END OF FIGURE

OPERATOR AND FIELD MAINTENANCE

BRACING, EXTERNAL

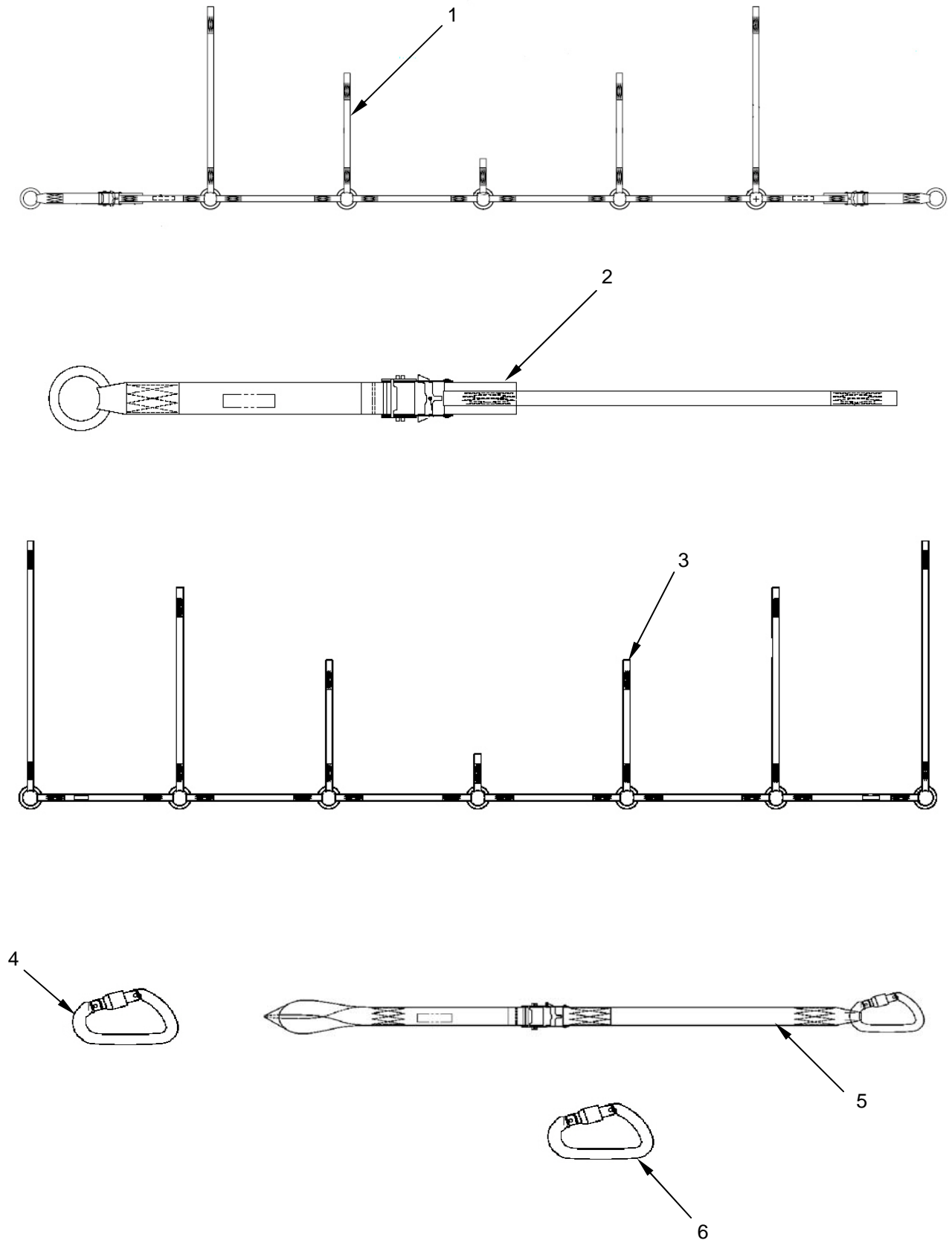


Figure 7. Bracing, External.

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 07						
FIG. 7 BRACING, EXTERNAL						
1	PAOZZ		03DK6	A001-02-0384	STRAP, LINE SUPPORTING, FIXED EXTERNAL BRACING, AS	1
2	PAOZZ		03DK6	A001-02-0386	STRAP, LINE SUPPORTING, RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS	1
3	PAOZZ		03DK6	A001-02-0385	STRAP, LINE SUPPORTING, RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS	2
4	PAOZZ	4240-01-134-7139	61023	18501	CARABINER	4
5	PAOOO		03DK6	00-010-123	STRAP, LINE SUPPORTING, SNOW STRAP (SET OF 4)	1
6	PAOZZ	4240-01-134-7139	61023	18501	. CARABINER	4

END OF FIGURE

OPERATOR AND FIELD MAINTENANCE

BULK MATERIALS LIST

(1) ITEM NO.	(2) SMR CODE	(3) NSN	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODE (UOC)	(7) QTY
GROUP 99 BULK MATERIAL						
1	PAOZZ		13803	MIL-C- 43256D,BLK	ROPE, 3/8" POLYESTER BRAID, BLACK	1
2	PAOZZ		03DK6	00-010-381	CORD	1

END OF FIGURE

OPERATOR AND FIELD MAINTENANCE

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
4730-00-023-5163	4	8	5940-01-105-8085	5	63
5305-00-054-5649	5	37	4240-01-134-7139	7	4
5305-00-054-5651	5	38		7	6
5305-00-054-6649	5	36	4730-01-168-3533	3	3
5305-00-054-6655	5	39		4	5
5305-00-054-6656	5	40	5935-01-181-6651	5	29
5305-00-054-6669	5	35	5935-01-181-6651	5	56
5305-00-059-3663	5	41	5935-01-184-7188	5	30
5310-00-079-6474	5	43	5935-01-184-7188	5	60
5935-00-114-5781	5	27	8340-01-186-3026	6	1
5935-00-114-8061	5	28	8340-01-186-3029	6	12
4730-00-125-2685	4	7	8340-01-186-3030	1	16
4730-00-202-6491	4	14	5935-01-189-3220	5	7
8340-00-205-2759	1	9	5935-01-189-3220	5	62
	6	4	8340-01-198-7621	6	1
5330-00-292-3958	5	25	8340-01-198-7623	6	11
5330-00-298-0189	5	26	8340-01-239-3010	6	6
5310-00-480-3641	5	45	8340-01-239-3011	6	7
5310-00-543-2739	5	49	8340-01-239-3012	6	8
5310-00-543-5933	5	50	4010-01-241-3894	6	9
6150-00-557-7653	5	20	6110-01-242-6691	5	12
6150-00-557-7656	5	21	4730-01-244-4667	4	17
5310-00-615-1556	5	47	6110-01-251-0402	5	17
5310-00-616-3555	5	48	4730-01-251-1031	4	19
5330-00-641-1541	5	24	6150-01-353-5731	5	57
5925-00-755-7906	5	22	6150-01-353-5732	5	58
4730-00-804-7944	4	6	6150-01-354-5841	5	52
5925-00-837-8964	5	23	6150-01-354-5842	5	51
5305-00-855-0960	6	10	5930-01-423-5769	5	54
5310-00-880-5978	5	46	8340-01-440-8901	6	5
5940-00-926-8120	5	19	6150-01-470-1916	5	6
4010-00-929-0041	5	15	6230-01-485-6375	5	3
4010-00-929-0041	5	15	6230-01-506-9387	5	4
5310-00-982-6814	5	42	6210-01-510-0935	5	5
8340-00-985-7461	1	14	6230-01-519-0393	5	2
5935-01-012-3066	5	53	5935-01-549-6337	5	9
4030-01-021-6339	5	16	5935-01-549-6337	5	32
4730-01-088-3200	5	14	5310-99-136-2749	5	44

OPERATOR AND FIELD MAINTENANCE

PART NUMBER INDEX

PART NUMBER	FIG.	ITEM	PART NUMBER	FIG.	ITEM
00-010-013	2	1	11495-A-0832	5	31
	2	1	1-6-6005-2	5	12
00-010-014	1	11	1-6-6041-1	5	17
00-010-015	2	2	1-6-6043-1	5	57
00-010-016	1	12	1-6-6043-2	5	58
00-010-017	2	3	1-6-6044-1	5	52
00-010-018	1	13	1-6-6044-3	5	51
00-010-019	2	4	1-6-7244-1	5	34
00-010-123	7	5	1-6-7249-1	5	18
00-010-132	4	15	17E	4	22
00-010-290	1	8	18501	7	4
	1	19		7	6
	1	20	209P-6-4	4	14
	6	3	2244-8-8S	4	17
00-010-381	99	2	23B28045-1	1	9
00-010-392	1	17		6	4
00-010-401	1	21	25-901-100	4	18
00-010-414	4	13	2842687-3	5	16
00-010-429	1	11	31-1-50	5	4
00-010-430	1	12	31-502SK-IP	5	3
00-010-431	1	13	31-MC	5	5
00-010-432	1	10	31-MC-502 FSB	5	2
00-010-432	1	10	31-MC-502S	5	2
00-010-433	1	1	5-13-8225-1	4	23
00-010-434	1	2	5-13-8226-1	4	25
00-010-435	1	3	5269-C	5	53
00-010-436	1	4	5-4-3343	6	6
00-010-448	2	9	5-4-3344	6	7
00-010-449	2	10	5-4-3345	6	8
00-010-472	1	6	5-4-3346	6	9
00-010-487	1	5	5-4-3370	6	1
00-010-488	1	5	5-4-3370-2	6	1
00-010-489	2	9	5-4-3370-2-20	6	2
00-010-493	4	24	5-4-3371-1	6	5
00-010-496	2	5	5-4-3372	6	11
00-010-497	2	6	5-4-3374-1	6	12
00-010-498	2	7	6018	5	54
00-010-499	2	8	7271-8-20	5	22
10-36675-14	5	24	8 R6X	4	16
10-36675-16	5	25	8-8 F6X	4	9
10-36675-36	5	26	8-8070221C	4	8
1072A21	4	21	8-8-8070433	4	7

PART NUMBER	FIG.	ITEM	PART NUMBER	FIG.	ITEM
9-1-0624-1	5	6	MS21044-C10	5	43
9889K39	4	3	MS24509-A-10	5	23
A001-02-0028	3	1	MS24629-36	6	10
A001-02-0043	4	1	MS25042-14DA	5	56
A001-02-0268	4	1	MS25042-16A	5	7
A001-02-0271	1	21	MS25042-16DA	5	62
A001-02-0286	1	7	MS25043-14DA	5	29
A001-02-0336	5	11	MS25043-16DA	5	30
A001-02-0384	7	1		5	60
A001-02-0385	7	3	MS25226-4-2	5	20
A001-02-0386	7	2	MS25226-4-3	5	21
A001-02-0389	1	10	MS27212-6-4	5	19
A001-02-0409	1	1	MS27212-6-6	5	63
A001-02-0410	1	2	MS35333-71	5	48
A001-02-0411	1	3	MS35333-72	5	49
A001-02-0412	1	4	MS35333-73	5	50
A001-05-0047	4	10	MS51957-15	5	37
A001-05-0048	4	11	MS51957-17	5	38
A001-05-0049	4	12	MS51957-25	5	36
A001-05-0214	4	2	MS51957-31	5	39
A001-05-0255	4	20	MS51957-32	5	40
A001-05-0273	1	18	MS51957-44	5	35
AS1035-080808	4	6	MS51958-67	5	41
CA06R14S-7P-F80	5	55	MS90563-3C	5	28
CA06R16-10PF80	5	8	MS90564-3C	5	27
	5	61	TS-CM1X36DH	1	15
CA3101E16-10S-F80	5	59	V520P-8-04	3	2
CR5352	5	10		4	4
GFR5352A	5	9	WRLD-1	5	33
	5	32	WW-C-440 TYPE F	5	14
H2E-F	3	3			
	4	5			
H2F	4	19			
LT200141	5	1			
LT200142	5	1			
M45052/1-C4-13	5	13			
M83420/4-001	5	15			
MIL-C-43256D,BLK	99	1			
MIL-P-501	1	14			
MIL-T-44243	1	16			
MS15795-803	5	44			
MS15795-807	5	46			
MS15795-845	5	45			
MS15795-846	5	47			
MS21044C08	5	42			

CHAPTER 9
SUPPORTING INFORMATION
FOR
TEMPER, AIR-SUPPORTED

OPERATOR AND FIELD MAINTENANCE
REFERENCES

SCOPE

This Work Package lists all field manuals, forms, technical manuals and miscellaneous publications referenced throughout this manual.

ARMY REGULATIONS

AR 700-15	Packaging of Materiel
AR 735-11-2	Reporting of Supply Discrepancies
AR 750-1	Army Material Maintenance Policy

DA PAMPHLETS

DA PAM 25-30	Consolidated Index of Army Publications and Blank Forms
DA PAM 738-751	Functional Users Manual for The Army Maintenance Management System-Aviation (TAMMS-A)
DA PAM 750-8	The Army Maintenance Management System (TAMMS) Users Manual

FIELD MANUALS

FM 4-25.11 (FM 21-11)	First Aid for Soldiers
-----------------------	------------------------

FORMS

DA Form 2404	Equipment Inspection & Maintenance Worksheet
DA Form 5988E	Equipment Maintenance and Inspection Worksheet
DD 361	Transportation Discrepancy Report
SF 364	Report of Discrepancy (ROD)
SF 368	Product Quality Deficiency Report (PQDR)

TECHNICAL MANUALS

TM 10-5419-206-13	Force Provider System Integration Manual
TM 38-470	Storage And Maintenance Of Army Prepositioned Stock Materiel
TM 4700-15/1	Equipment Maintenance Forms and Procedures

OTHER

ASTM D6251	Standard Specification for Wood-Cleated Panelboard Shipping Boxes
------------	---

END OF WORK PACKAGE

OPERATOR AND FIELD MAINTENANCE
MAINTENANCE ALLOCATION CHART (MAC)

MAINTENANCE ALLOCATION CHART (MAC)**INTRODUCTION****The Army Maintenance System MAC**

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

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

Field – includes two subcolumns, Crew (C) and Maintainer (F).

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

The maintenance to be performed at field and sustainment levels is described as follows:

1. Crew maintenance. The responsibility of a using organization to perform maintenance on its assigned equipment. It normally consists of inspecting, servicing, lubricating, adjusting, and replacing parts, minor assemblies, and subassemblies. The replace function for this level of maintenance is indicated by the letter "C" in the third position of the SMR code. A "C" appearing in the fourth position of the SMR code indicates complete repair is possible at the crew maintenance level.
2. Maintainer maintenance. Maintenance accomplished on a component, accessory, assembly, subassembly, plug-in unit, or other portion either on the system or after it is removed. The replace function for this level of maintenance is indicated by the letter "F" appearing in the third position of the SMR code. An "F" appearing in the fourth position of the SMR code indicates complete repair is possible at the field maintenance level. Items are returned to the user after maintenance is performed at this level.
3. Below depot sustainment. Maintenance accomplished on a component, accessory, assembly, subassembly, plug-in unit, or other portion either on the system or after it is removed. The replace function for this level of maintenance is indicated by the letter "H" appearing in the third position of the SMR code. An "H" appearing in the fourth position of the SMR code indicates complete repair is possible at the below depot sustainment maintenance level. Items are returned to the supply system after maintenance is performed at this level.
4. Depot sustainment. Maintenance accomplished on a component, accessory, assembly, subassembly, plug-in unit, or other portion either on the system or after it is removed. The replace function for this level of maintenance is indicated by the letter "D" or "K" appearing in the third position of the SMR code. Depot sustainment maintenance can be performed by either depot personnel or contractor personnel. A "D" or "K" appearing in the fourth position of the SMR code indicates complete repair is possible at the depot sustainment maintenance level. Items are returned to the supply systems after maintenance is performed at this level.

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

The remarks table (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:

1. **Inspect.** To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel). This includes scheduled inspection and gauging and evaluation of cannon tubes.
2. **Test.** To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.
3. **Service.** Operations required periodically to keep an item in proper operating condition; e.g., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging of recoil mechanisms. The following are examples of service functions:
 - a. **Unpack.** To remove from packing box for service or when required for the performance of maintenance operations.
 - b. **Repack.** To return item to packing box after service and other maintenance operations.
 - c. **Clean.** To rid the item of contamination.
 - d. **Touch up.** To spot paint scratched or blistered surfaces.
 - e. **Mark.** To restore obliterated identification.
4. **Adjust.** To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specified parameters.
5. **Align.** To adjust specified variable elements of an item to bring about optimum or desired performance.
6. **Calibrate.** To determine and cause corrections to be made or to be adjusted on instruments of test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
7. **Remove/Install.** To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
8. **Paint (ammunition only).** To prepare and spray color coats of paint so that the ammunition can be identified and protected. The color indicating primary use is applied, preferably, to the entire exterior surface as the background color of the item. Other markings are to be repainted as original so as to retain proper ammunition identification.
9. **Replace.** To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and assigned maintenance level is shown as the third position code of the Source, Maintenance and Recoverability (SMR) code.
10. **Repair.** The application of maintenance services, including fault location/troubleshooting, removal/installation, disassembly/assembly procedures and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

NOTE

The following definitions are applicable to the "repair" maintenance function:

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

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

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

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

11. Overhaul. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
12. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

Explanation of Columns in the MAC

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

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

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

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

Field:

- C Crew maintenance
- F Maintainer maintenance

Sustainment:

- L Specialized Repair Activity (SRA)
- H Below depot maintenance
- D Depot maintenance

NOTE

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

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

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

Explanation of Columns in the Tools and Test Equipment Requirements

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

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

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

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

Column (5) – Tool Number. The manufacturer's part number.

Explanation of Columns in the Remarks

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

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

OPERATOR AND FIELD MAINTENANCE

MAINTENANCE ALLOCATION CHART (MAC)

Table 1. Maintenance Allocation Chart for Tent, Extendable, Modular, Personnel (TEMPER), Air-Supported.

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REFERENCE CODE	(6) REMARKS CODE
			FIELD			SUSTAINMENT			
			CREW	SERVICE	FIELD	BELOW DEPOT	DEPOT		
			C	O	F	H	D		
00	TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), AIR-SUPPORTED	INSPECT	1.0						A
01	SKIN, OUTER	INSPECT	.3						A
		SERVICE	1.0						
		REPAIR	.7					1,2,3,6,7	
		REPLACE	8.0					1,2,3,6,7	
0101	PANEL, CLEAR WINDOW	INSPECT	.1						A
		SERVICE	.1						B
		REPLACE	.2					2	
0102	SECTION, END	INSPECT	.2		-				A
		SERVICE	.3						B
		REPAIR	.5					2,3,6	
		REPLACE	.7					2,3,6	
0103	SKIN, MAIN BODY	INSPECT	.3						A
		SERVICE	.3						B
		REPAIR	.5					2,3,6	
		REPLACE	8.0					2,3,6	
0104	TENT PIN, 18-INCH	INSPECT	.1						A
		SERVICE	.1						B
		REPLACE	.2					1	
0105	TENT PIN, 36-INCH	INSPECT	.1						A
		SERVICE	.1						B
		REPLACE	.2					1,7	
0106	ROPE, 3/8" POLYESTER BRAID, BLACK	INSPECT	.1						A
		REPLACE	.3					2	
02	ASSEMBLY, LINER	INSPECT	.3						A
		REPAIR	.5					2,3,6,7	
		REPLACE	4.0					2,3,6,7	
0201	END SECTION, LINER	INSPECT	.2						A
		SERVICE	.3						B
		REPAIR	.5					2,3,6,7	
		REPLACE	1.0					2,3,6,7	
0202	LINER, THERMAL	INSPECT	.3						A
		SERVICE	.3						B
		REPAIR	.4					2,3,6	
		REPLACE	3.0					2,3,6	

**Table 1. Maintenance Allocation Chart for
Tent, Extendable, Modular, Personnel (TEMPER), Air-Supported.**

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REFERENCE CODE	(6) REMARKS CODE
			FIELD			SUSTAINMENT			
			CREW	SERVICE	FIELD	BELOW DEPOT	DEPOT		
			C	O	F	H	D		
0203	PLENUM	INSPECT	.3						A
		SERVICE	.8						B
		REPAIR	.2					2,3,6	
		REPLACE	.5					2,3,6	
03	ASSEMBLY, AIRBEAM	INSPECT	.3						A
		REPAIR	.5					2,7	
		REPLACE	.5					2,7	
0301	BALL VALVE, AIRBEAM	INSPECT	.3						A
		REPLACE		.5				7	
0302	QUICK DISCONNECT FITTING, AIRBEAM	INSPECT	.3						A
		REPLACE		.5				7	
04	SYSTEM, INFLATION	INSPECT	.2						A
		SERVICE		.4					
		REPAIR		.7				7	
0401	ASSEMBLY, MANIFOLD	INSPECT	.1						A
		SERVICE	.2						
		REPAIR		.5				7	
		REPLACE	.5						
040101	REGULATOR, PRESSURE	INSPECT	.1						A
		REPLACE		.5				7	
040102	VALVE, PRESSURE RELIEF	INSPECT	.1						A
		REPLACE		.5				7	
040103	BALL VALVE, MANIFOLD	INSPECT	.3						A
		REPLACE		.5					
040104	QUICK DISCONNECT FITTING, MANIFOLD	INSPECT	.3						A
		REPLACE		.5					
0402	COMPRESSOR, AIR	INSPECT	.1						A
		SERVICE	.2						
		REPAIR		.5				7	
0403	HOSE ASSEMBLY, AIR COMPRESSOR	INSPECT	.1						A
		SERVICE	.1						C
		REPAIR		.5				7	C
0404	VACUUM, AIRBEAM PURGE	INSPECT	.1						A
		SERVICE	.2						
		REPAIR	.3					7	
0405	GAUGE, PRESSURE	INSPECT	.1						A
		REPLACE		.5					

**Table 1. Maintenance Allocation Chart for
Tent, Extendable, Modular, Personnel (TEMPER), Air-Supported.**

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REFERENCE CODE	(6) REMARKS CODE
			FIELD			SUSTAINMENT			
			CREW	SERVICE	FIELD	BELOW DEPOT	DEPOT		
			C	O	F	H	D		
05	SYSTEM, ELECTRICAL	INSPECT	.3						A
		SERVICE	.4						
		TEST		.2					
		REPAIR		.7					
0501	ASSEMBLY, LIGHTING	INSPECT	.1						A
		REPAIR	.5				3,7		
		REPLACE	.5				3,7		
050101	STRAP, LIGHT MEGA	INSPECT	.1						A
		REPAIR	.3				3,7		
		REPLACE	.5				3,7		
050102	BULB, FLUORESCENT	REPLACE	.3				3,7		
050103	EXTENSION CORD, LIGHTING	INSPECT	.1						A
		REPLACE	.3						
0502	ASSEMBLY, ELECTRICAL POWER DISTRIBUTION	INSPECT	.1						A
		TEST		.3					
		REPLACE	.7						
050201	ASSEMBLY, CONVENIENCE OUTLET	INSPECT	.1						A
		TEST		.2					
		REPAIR		.2					
		REPLACE		.3					
050202	ASSEMBLY, POWER DISTRIBUTION STAND STRAP AND BLOCK	INSPECT	.1						A
		REPLACE	.3						
050203	STAND, POWER DISTRIBUTION BOX	INSPECT	.1						A
		REPLACE	.3				7		
050204	BOX, POWER DISTRIBUTION	INSPECT	.1						A
		REPLACE	.3				7		
06	ASSEMBLY, VESTIBULE	INSPECT	.1						A
		SERVICE	.2						B
		REPAIR	.2				2,6		
		REPLACE	.5				2,6		
07	BRACING, EXTERNAL	INSPECT	.1						A
		SERVICE	.2						B
		REPLACE	.4						
0701	ASSEMBLY, TOP RATCHET EXTERNAL BRACING	INSPECT	.1						A
		SERVICE	.1						B
		REPLACE	.4						
0702	ASSEMBLY, BOTTOM RATCHET EXTERNAL BRACING	INSPECT	.1						A
		SERVICE	.1						B
		REPLACE	.4				3		

Table 1. Maintenance Allocation Chart for Tent, Extendable, Modular, Personnel (TEMPER), Air-Supported.

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIPMENT REFERENCE CODE	(6) REMARKS CODE
			FIELD			SUSTAINMENT			
			CREW	SERVICE	FIELD	BELOW DEPOT	DEPOT		
			C	O	F	H	D		
0703	FIXED ASSEMBLY, EXTERNAL BRACING	INSPECT SERVICE REPLACE	.1 .1 .4					3	A B
0704	ASSEMBLY, SNOW STRAP	INSPECT SERVICE REPLACE	.1 .1 .3					3	A B

Table 2. Tools and Test Equipment for Tent, Extendable, Modular, Personnel (TEMPER), Air-Supported.

TOOL OR TEST EQUIPMENT	MAINTENANCE LEVEL	NOMENCLATURE	NATIONAL STOCK NUMBER	TOOL NUMBER
1	C, O	Hammer, Sledge	4240-01-554-4834	WILHVS1430
2	O	Knife, Utility	5110-01-538-3943	X3274
3	C, O	Tape, Measuring, 25 FT	5210-01-139-7444	5210-01-139-7444
4	O	Tool Kit, General Mechanics (GMTK)	5180-01-483-0249	5180-95-B47
5	C, O	Tool, Stake Removal		00-010-392
6	O	Wrench, Adjustable, 6-Inch	5120-00-264-3795	B107.8

Table 3. Remarks for Tent, Extendable, Modular, Personnel (TEMPER), Air-Supported.

REMARK CODE	REMARKS
A	Inspect is a visual PMCS inspection process.
B	Service on shelter components consists of general cleaning with warm, soapy water. Service on tent pins consists of general cleaning with a brush.
C	Limited service and repair procedures for electric compressor are covered in this technical manual. All other repair and replacement procedures are covered in the commercial manual supplied with the compressor.
D	Calibration consists of sending the component to a test and calibration lab.

END OF WORK PACKAGE

OPERATOR AND FIELD MAINTENANCE

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LISTS

INTRODUCTION**Scope**

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

General

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

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

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

Explanation of Columns in the COEI List and BII List

Column (1) Illus Number. Gives you the number of the item illustrated.

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

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

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

<u>Code</u>	<u>Used on</u>
FYA	TEMPER, Type XXXI, Green
FYC	TEMPER, Type XXXII, Green
FYE	TEMPER, Type XXXIII, Green
FYG	TEMPER, Type XXXIV, Green
FYJ	TEMPER, Type XXXV, Green
FYL	TEMPER, Type XXXVI, Green
FYN	TEMPER, Type XXXVII, Green
FYQ	TEMPER, Type XXXVIII, Green
FYS	TEMPER, Type XXXIX, Green
FYU	TEMPER, Type XL, Green
FXL	TEMPER, Type XLI, Green
FXN	TEMPER, Type XLII, Green
FXQ	TEMPER, Type XLIII, Green

INTRODUCTION - CONTINUED

<u>Code</u>	<u>Used on</u>
FXS	TEMPER, Type XLIV, Green
FXU	TEMPER, Type XLV, Green
FXW	TEMPER, Type XLVI, Green
FXY	TEMPER, Type XLVII, Green
FXB	TEMPER, Type XXXI, Tan
FYD	TEMPER, Type XXXII, Tan
FYF	TEMPER, Type XXXIII, Tan
FYH	TEMPER, Type XXXIV, Tan
FYK	TEMPER, Type XXXV, Tan
FYM	TEMPER, Type XXXVI, Tan
FYP	TEMPER, Type XXXVII, Tan
FYR	TEMPER, Type XXXVIII, Tan
FYT	TEMPER, Type XXXIX, Tan
FYV	TEMPER, Type XL, Tan
FXM	TEMPER, Type XLI, Tan
FXP	TEMPER, Type XLII, Tan
FXR	TEMPER, Type XLIII, Tan
FXT	TEMPER, Type XLIV, Tan
FXV	TEMPER, Type XLV, Tan
FXX	TEMPER, Type XLVI, Tan
FXZ	TEMPER, Type XLVII, Tan

Column (5) U/I. Unit of Issue (U/I) indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (2).

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

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST

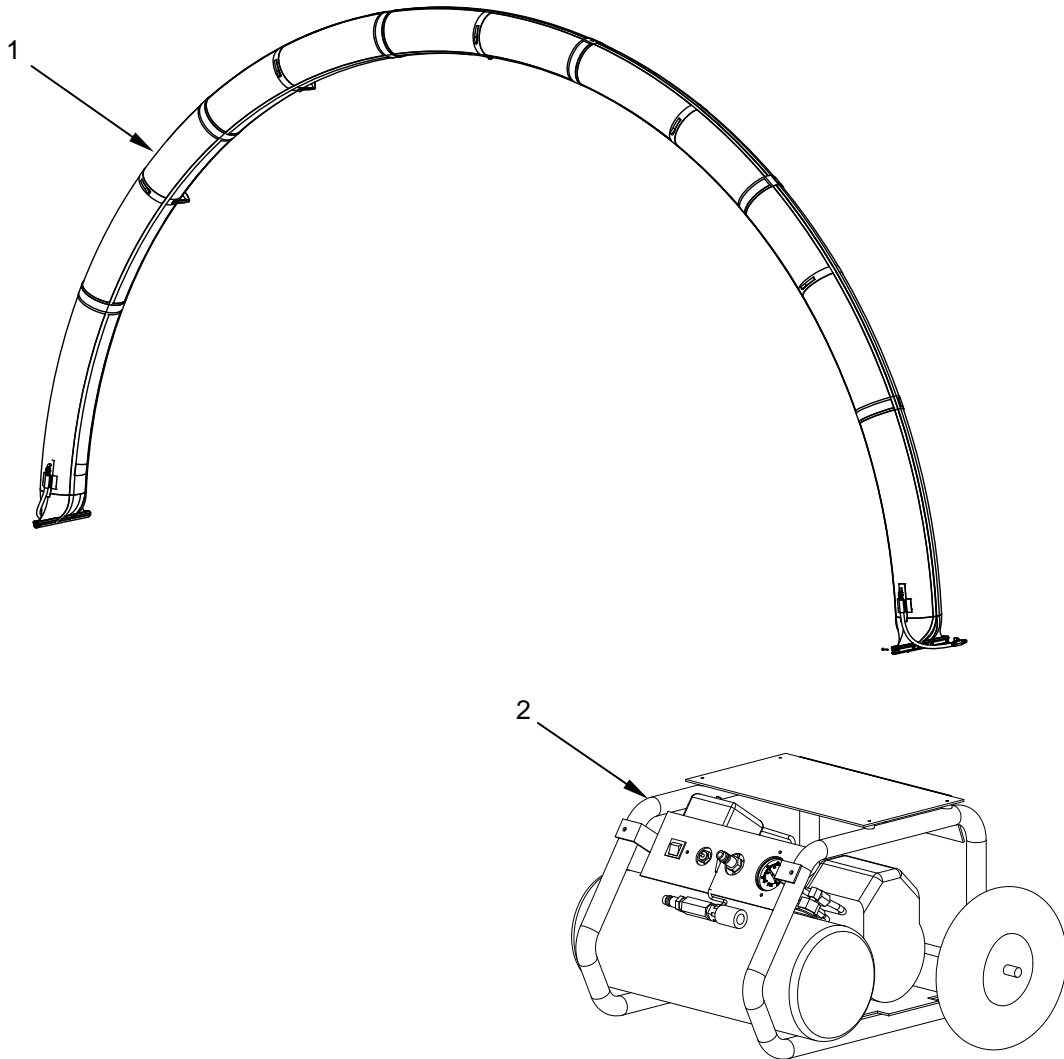


Table 1. Components of End Item List.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
1		AIRBEAM ASSEMBLY, 10-INCH, AS, A001-02-0028 (03DK6)	FYA, FYB, FYC, FYD, FYE, FYF, FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FYU, FYV, FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV	EA	4
1		AIRBEAM ASSEMBLY, 10-INCH, AS, A001-02-0028 (03DK6)	FYQ, FYR, FYS, FYT, FXW, FXX, FXY, FXZ	EA	3
2		COMPRESSOR, AIR, ELECTRIC, LIGHT WEIGHT, A001-05-0058 (03DK6)	FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ	EA	1

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST - CONTINUED

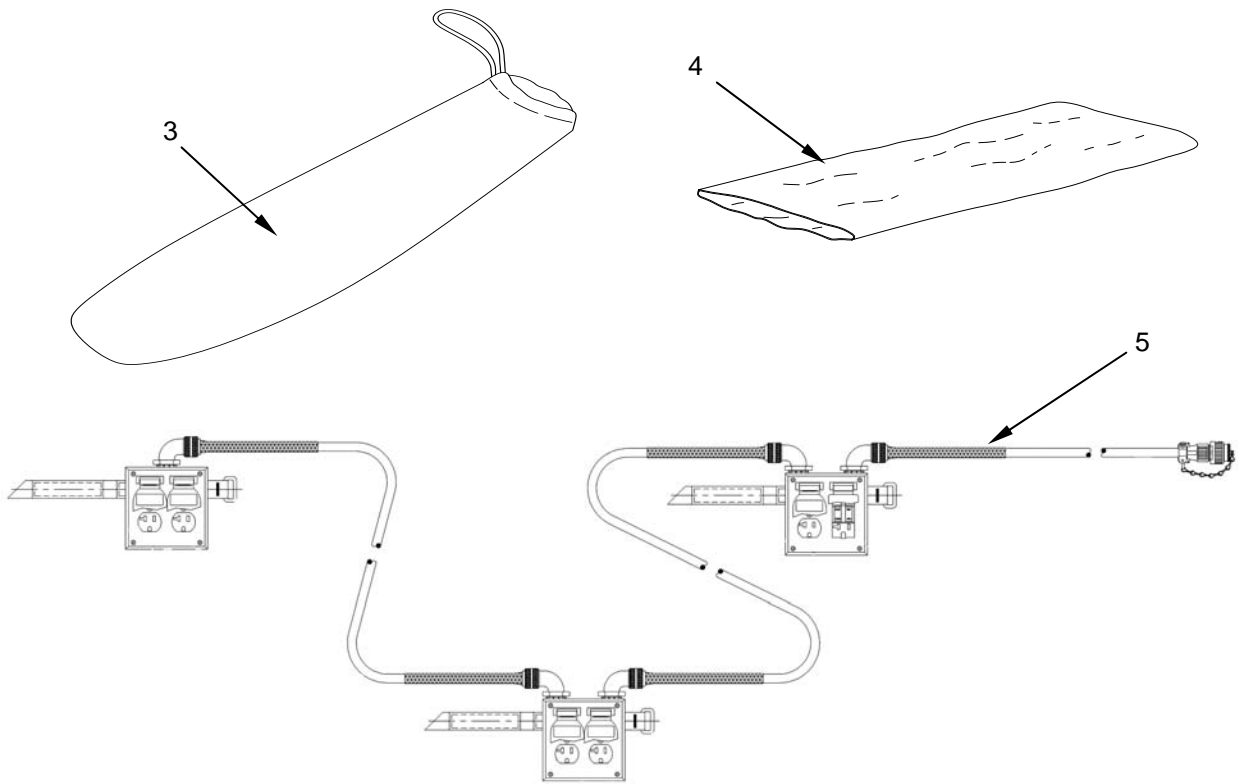


Table 1. Components of End Item List - Continued.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
3	8340-01-186-3030	CONTAINER, TENT PIN, 00-010-062 (81337)	FYL, FYM	EA	1
3	8340-01-186-3030	CONTAINER, TENT PIN, 00-010-062 (81337)	FYA, FYC, FYU, FXL, FXN, FXQ, FXS, FXU, FXW, FXY, FYB, FYD, FYV, FXM, FXP, FXR, FXT, FXV, FXX, FXZ	EA	2
3	8340-01-186-3030	CONTAINER, TENT PIN, 00-010-062 (81337)	FYE, FYG, FYQ, FYF, FYH, FYR	EA	3
3	8340-01-186-3030	CONTAINER, TENT PIN, 00-010-062 (81337)	FYJ, FYN, FYS, FYK, FYP, FYT	EA	4
4	8340-01-186-3029	CONTAINER, VESTIBULE, 5-4-3374-1 (81337)	FYJ, FYN, FYS, FYK, FYP, FYT	EA	3
4	8340-01-186-3029	CONTAINER, VESTIBULE, 5-4-3374-1 (81337)	FYE, FYG, FYQ, FYF, FYH, FYR	EA	2
4	8340-01-186-3029	CONTAINER, VESTIBULE, 5-4-3374-1 (81337)	FYA, FYC, FYU, FXL, FXN, FXQ, FXS, FXU, FXW, FXY, FYB, FYD, FYV, FXM, FXP, FXR, FXT, FXV, FXX, FXZ	EA	1
5	6110-01-251-8157	CONVENIENCE OUTLET, 1-6-6046 (81337)	FXL, FXN, FXQ, FXS, FXU, FXW, FXY, FXM, FXP, FXR, FXT, FXV, FXX, FXZ	EA	1

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST - CONTINUED

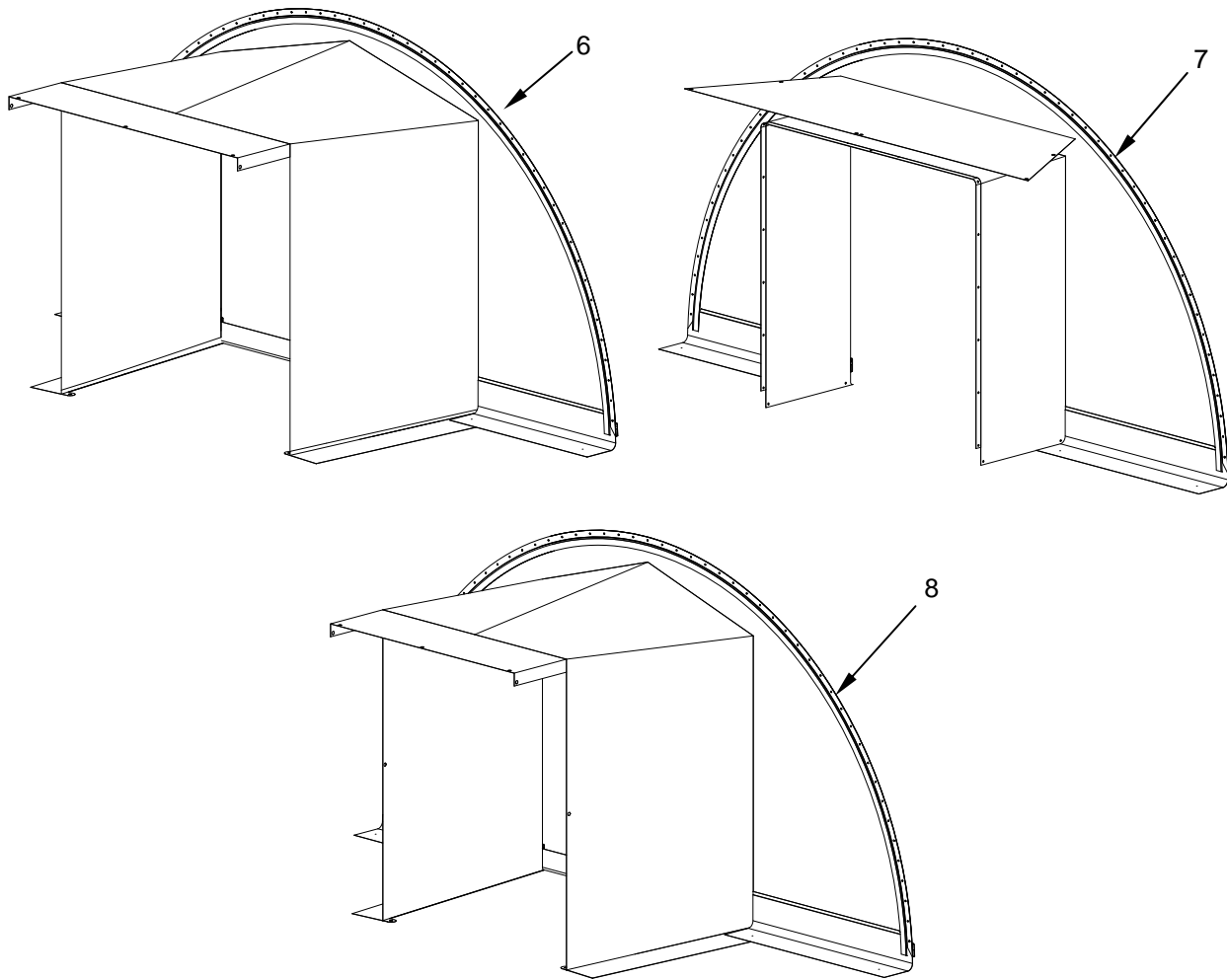


Table 1. Components of End Item List - Continued.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
6		END SECTION, ISO END, GREEN, 00-010-430 (03DK6)	FYC, FXN, FXW	EA	1
6		END SECTION, ISO END, TAN, 00-010-016 (03DK6)	FYD, FXP, FXX	EA	1
7		END SECTION, ISO SIDE, GREEN, 00-010-429 (03DK6)	FYJ, FYS, FXS	EA	1
7		END SECTION, ISO SIDE, TAN, 00-010-014 (03DK6)	FYK, FYT, FXT	EA	1
8		END SECTION, TRICON, GREEN, 00-010-431 (03DK6)	FYN, FXU	EA	1
8		END SECTION, TRICON, TAN, 00-010-018 (03DK6)	FYP, FXV	EA	1

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST - CONTINUED

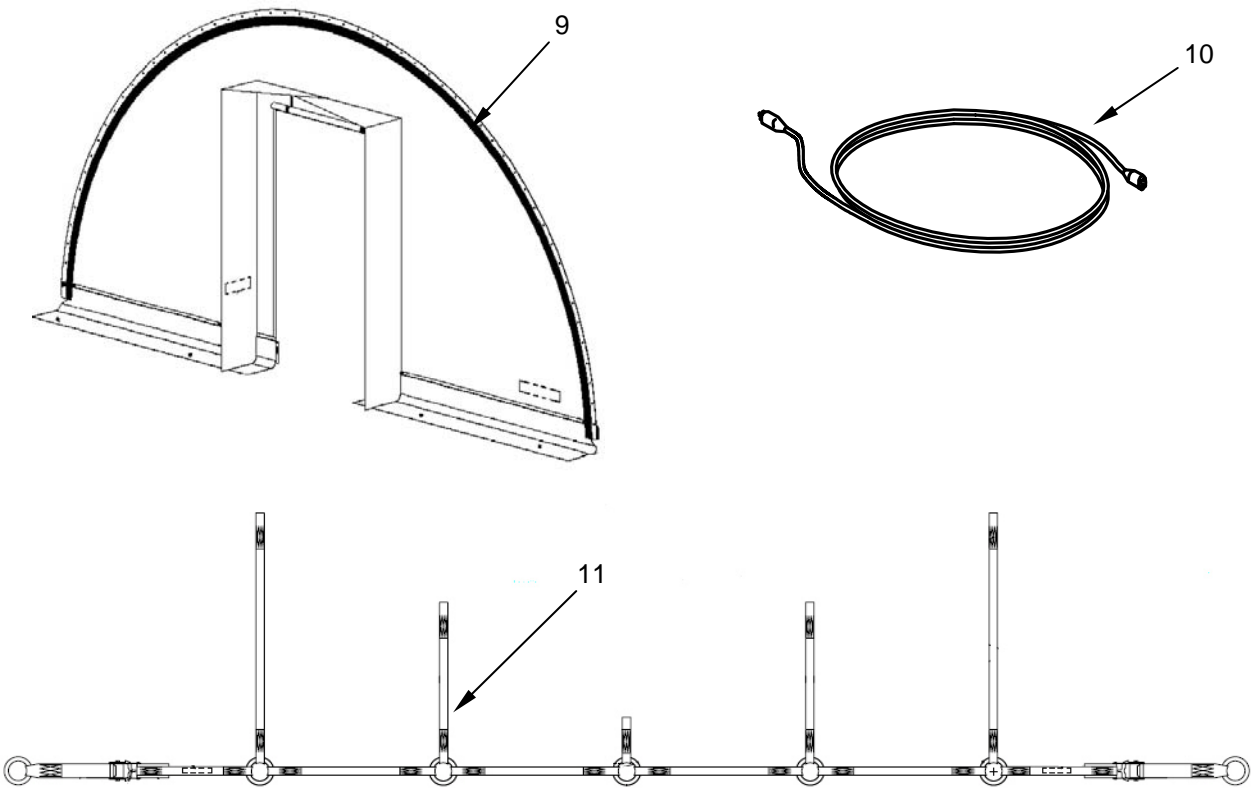


Table 1. Components of End Item List - Continued.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
9		END SECTION, VESTIBULE, GREEN, 00-010-432 (03DK6)	FYA, FYE, FYG, FYL, FYQ, FXL, FXQ, FXY	EA	2
9		END SECTION, VESTIBULE, GREEN, 00-010-432 (03DK6)	FYC, FYJ, FYN, FYS, FYU, FXN, FXS, FXU, FXW	EA	1
9		END SECTION, VESTIBULE, TAN, A001-02-0389 (03DK6)	FYB, FYF, FYH, FYM, FYR, FXM, FXR, FXZ	EA	2
9		END SECTION, VESTIBULE, TAN, A001-02-0389 (03DK6)	FYD, FYK, FYP, FYT, FYV, FXP, FXT, FXV, FXX	EA	1
10		EXTENSION CORD, 10', A001-05-0110 (03DK6)		EA	1
11		FIXED ASSEMBLY, EXTERNAL BRACING, AS, A001-02-0384 (03DK6)		EA	1

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST - CONTINUED

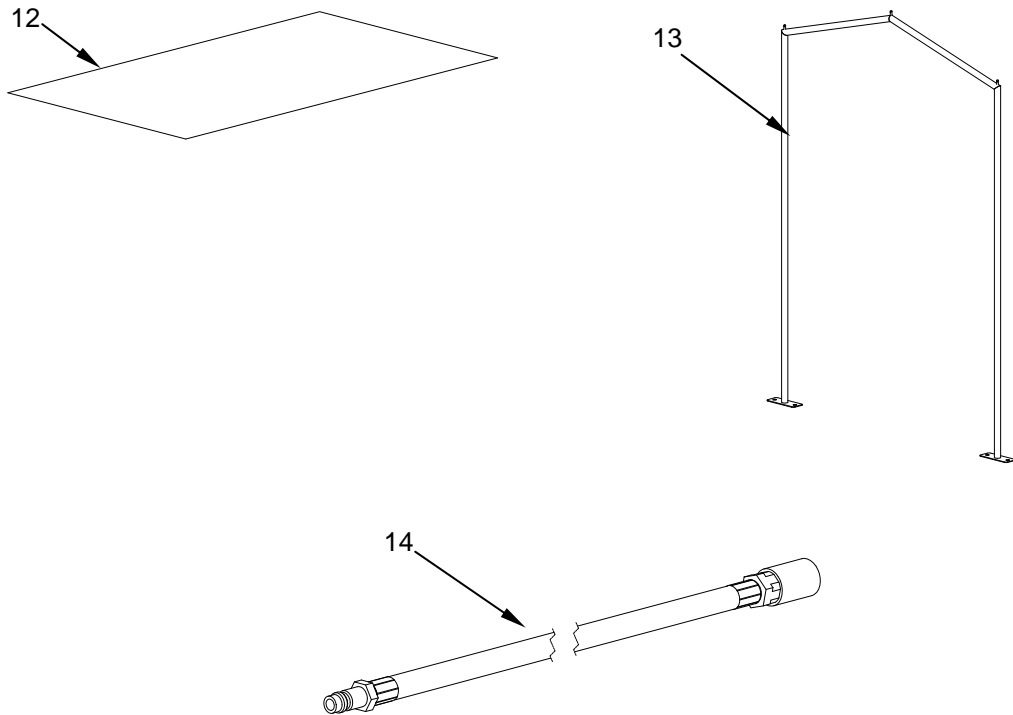


Table 1. Components of End Item List - Continued.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
12	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN, 5-4-3372-1 (81337)	FYJ, FYN, FYS	EA	3
12	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN, 5-4-3372-1 (81337)	FYE, FYG, FYQ	EA	2
12	8340-01-186-3027	FLOOR, TENT VESTIBULE, GREEN, 5-4-3372-1 (81337)	FYA, FYC, FYU, FXL, FXN, FXQ, FXS, FXU, FXW, FXY	EA	1
12	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY, 5-4-3372 (81337)	FYK, FYP, FYT	EA	3
12	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY, 5-4-3372 (81337)	FYF, FYH, FYR	EA	2
12	8340-01-198-7623	FLOOR, TENT VESTIBULE, GREY, 5-4-3372 (81337)	FYB, FYD, FYV, FXM, FXP, FXR, FXT, FXV, FXX, FXZ	EA	1
13	8340-01-239-3010	FRAME ASSEMBLY, VESTIBULE, 5-4-3343 (81337)	FYJ, FYN, FYS, FYK, FYP, FYT	EA	9
13	8340-01-239-3010	FRAME ASSEMBLY, VESTIBULE, 5-4-3343 (81337)	FYE, FYG, FYQ, FYF, FYH, FYR	EA	6
13	8340-01-239-3010	FRAME ASSEMBLY, VESTIBULE, 5-4-3343 (81337)	FYA, FYC, FYU, FXL, FXN, FXQ, FXS, FXU, FXW, FXY, FYB, FYD, FYV, FXM, FXP, FXR, FXT, FXV, FXX, FXZ	EA	3
14		HOSE ASSEMBLY, 1/2" I.D. X 60" LONG, 1/2" M NPT X 1/2" M NPT, A001-05-0255 (03DK6)	FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV, FXW, FXX, FXY, FXZ	EA	1

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST - CONTINUED

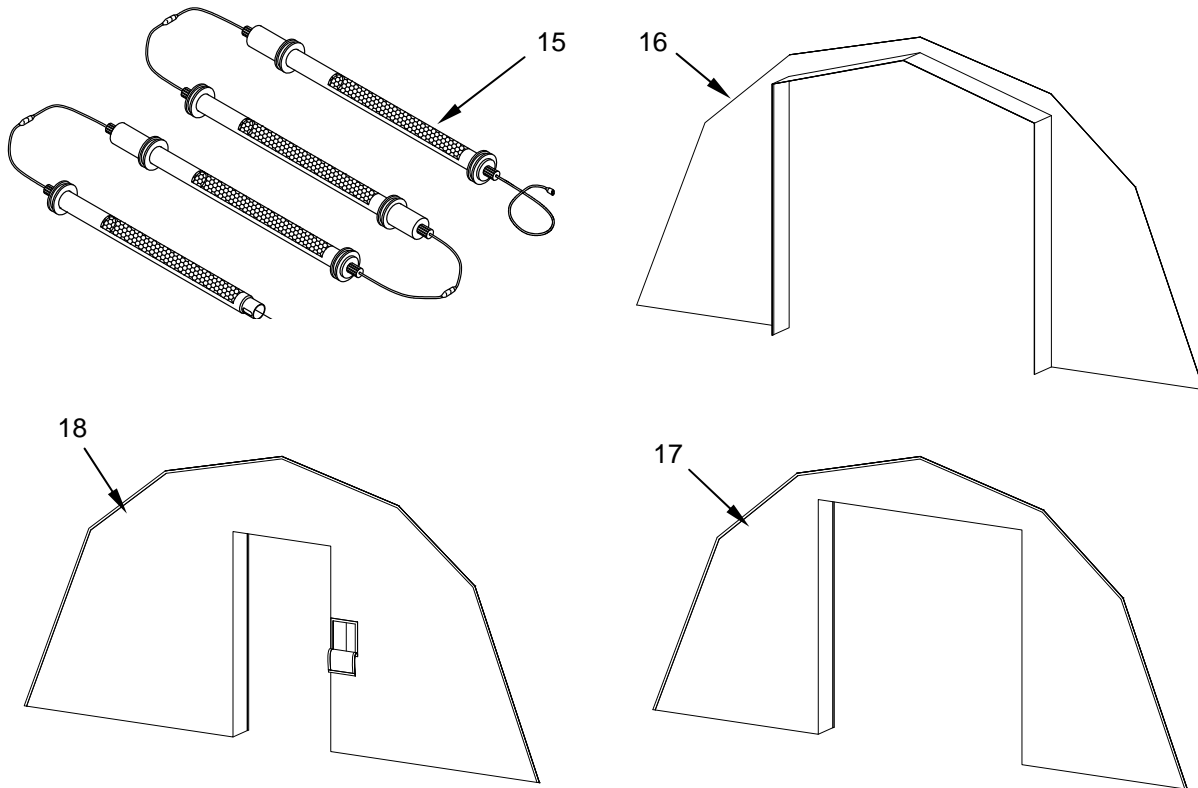


Table 1. Components of End Item List - Continued.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
15	6230-01-519-0393	CASE, LIGHT SET (4 LIGHT SET), 31-MC-502S, (06967)	FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FXV, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV	EA	2
15		CASE, LIGHT SET (3 LIGHT SET), 00-010-124 (03DK6)	FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ	EA	2
16		LINER, END SECTION, ISO END, 00-010-017 (03DK6)	FYC, FXN, FXW, FYD, FXP, FXX	EA	1
17		LINER, END SECTION, ISO SIDE, 00-010-015 (03DK6)	FYJ, FYK, FYS, FYT, FXS, FXT	EA	1
18		LINER, END SECTION, VESTIBULE, 00-010-013 (03DK6)	FYA, FYB, FYE, FYF, FYG, FYH, FYL, FYM, FYQ, FYR, FXL, FXM, FXQ, FXR, FXY, FXZ	EA	2
18		LINER, END SECTION, VESTIBULE, 00-010-013 (03DK6)	FYC, FYD, FYJ, FYK, FYN, FYP, FYS, FYT, FYU, FYV, FXN, FXP, FXS, FXT, FXU, FXV, FXW, FXX	EA	1

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST - CONTINUED

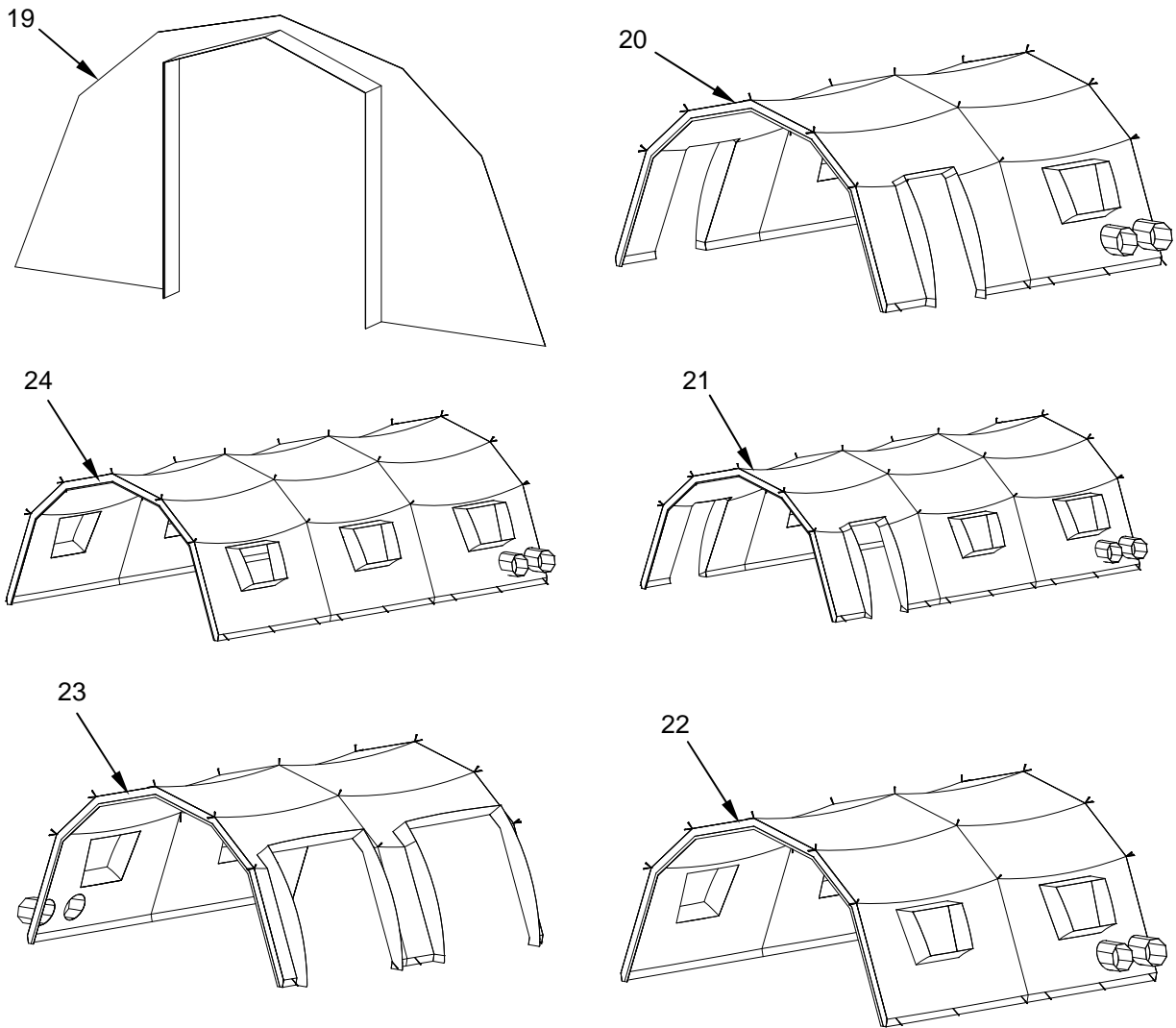


Table 1. Components of End Item List - Continued.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
19		LINER, END SECTION, TRICON, 00-010-019 (03DK6)	FYN, FXU, FYP, FXV	EA	1
20		LINER, THERMAL, TYPE D, AS21, 00-010-499 (03DK6)	FYS, FYT, FXW, FXX	EA	1
21		LINER, THERMAL, TYPE B, AS32, 00-010-497 (03DK6)	FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FXQ, FXR, FXS, FXT, FXU, FXV	EA	1
22		LINER, THERMAL, TYPE E, AS22, 00-010-489 (03DK6)	FXY, FXZ	EA	1
23		LINER, THERMAL, TYPE C, AS21, 00-010-498 (03DK6)	FYQ, FYR	EA	1
24		LINER, THERMAL, TYPE A, AS32, 00-010-496 (03DK6)	FYA, FYB, FYC, FYD, FYE, FYF, FYU, FYV, FXL, FXM, FXN, FXP	EA	1

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST - CONTINUED

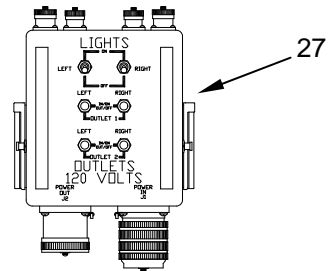
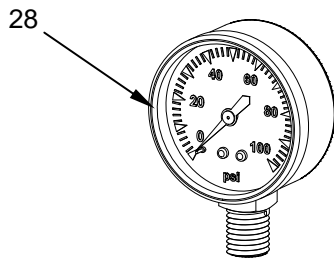
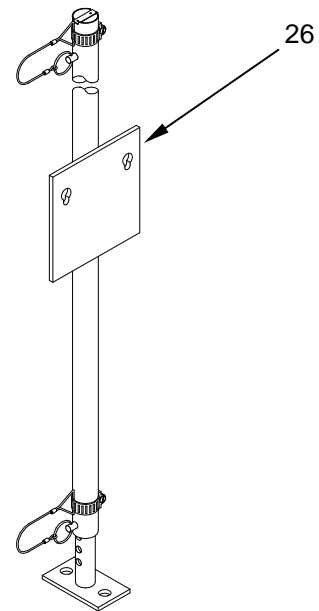
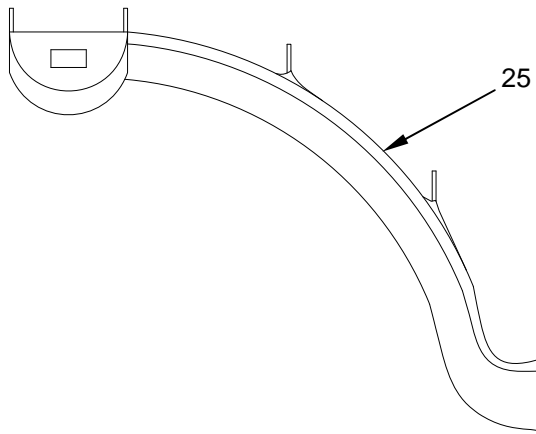


Table 1. Components of End Item List - Continued.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
25		PLENUM, LINER, LARGE, AS32, 00-010-448 (03DK6)		EA	1
26	6110-01-242-6691	POWER DISTRIBUTION BOX STAND (MODIFIED), 1-6-6005 (81337)	FXL, FXN, FXQ, FXS, FXU, FXW, FXY, FXM, FXP, FXR, FXT, FXV, FXX, FXZ	EA	1
27	6110-01-251-0402	POWER DISTRIBUTION BOX, TYPE III/120V, 1-6-6041 (81337)	FXL, FXN, FXQ, FXS, FXU, FXW, FXY, FXM, FXP, FXR, FXT, FXV, FXX, FXZ	EA	1
28		PRESSURE GAUGE, 0-100 PSI, 1/4" MALE NPT, 25-901-100 (62091)	FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV, FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ	EA	1

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST - CONTINUED

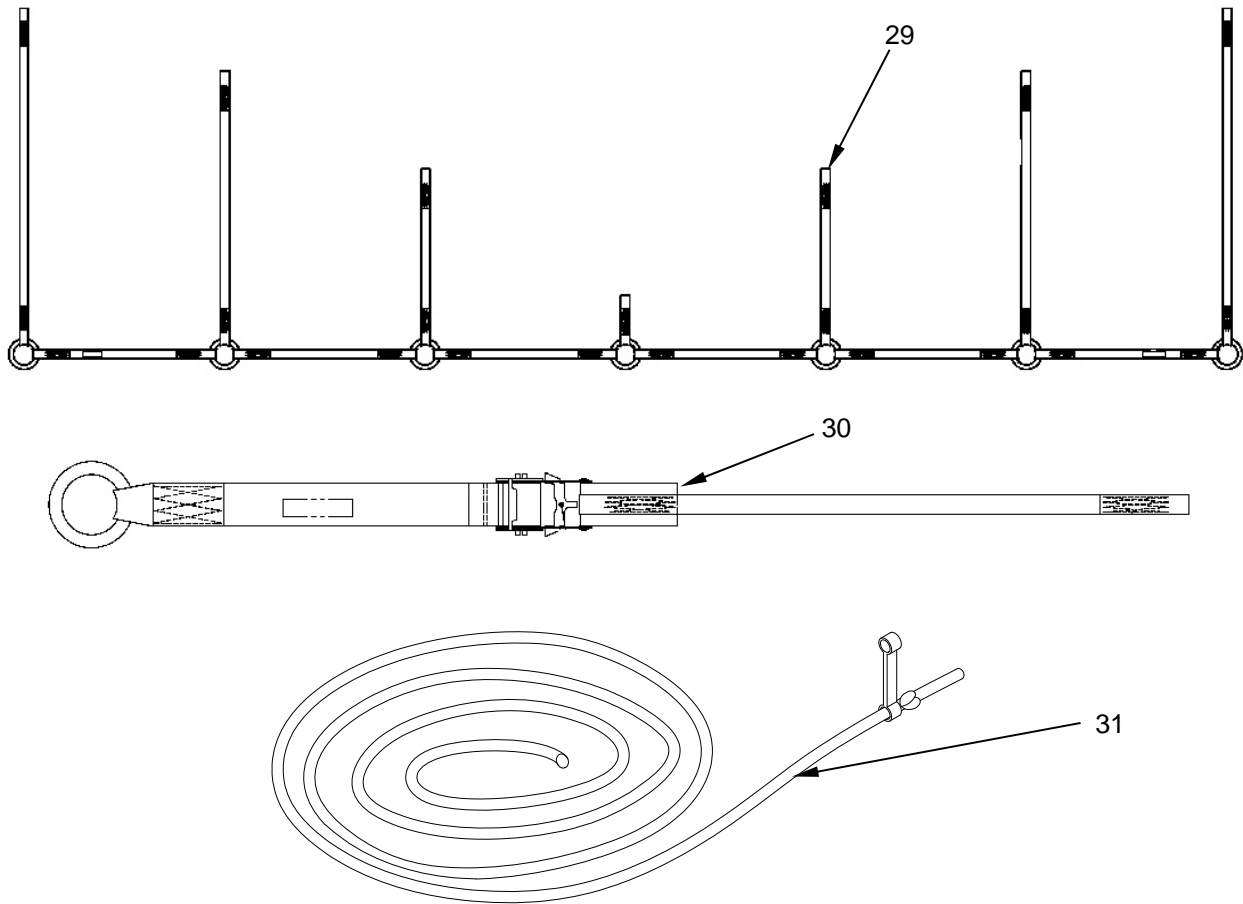


Table 1. Components of End Item List - Continued.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
29		RATCHET ASSEMBLY, BOTTOM, EXTERNAL BRACING, AS, A001-02- 0385 (03DK6)		EA	2
30		RATCHET ASSEMBLY, TOP, EXTERNAL BRACING, AS, A001-02- 0386 (03DK6)		EA	1
31		LINE, TENT MAKE FROM CORD, FIBROUS, P/N 00-010-290, LENGTH 112 INCHES AND SLIP, TENT LINE, A001-02-0286 (03DK6)	FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV	EA	8
31		LINE, TENT MAKE FROM CORD, FIBROUS, P/N 00-010-290, LENGTH 112 INCHES AND SLIP, TENT LINE, A001-02-0286 (03DK6)	FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ	EA	6

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST - CONTINUED

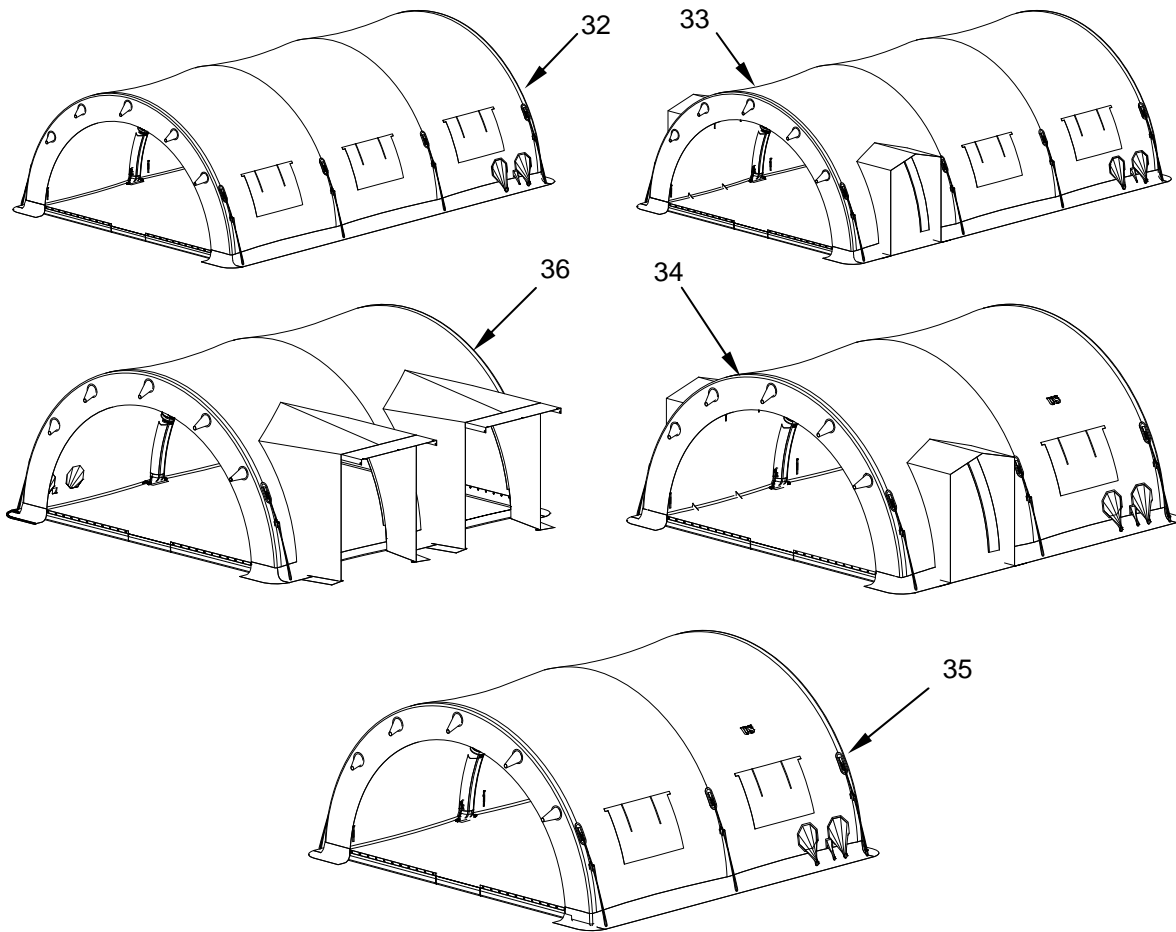


Table 1. Components of End Item List - Continued.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
32		SKIN, MAIN BODY, TYPE A, AS32, GREEN, 00-010-433 (03DK6)	FYA, FYC, FYE, FYU, FXL, FXN	EA	1
32		SKIN, MAIN BODY, TYPE A, AS32, TAN, A001-02-0409 (03DK6)	FYB, FYD, FYF, FYV, FXM, FXP	EA	1
33		SKIN, MAIN BODY, TYPE B, AS32, GREEN, 00-010-434 (03DK6)	FYG, FYJ, FYL, FYN, FXQ, FXS, FXU	EA	1
33		SKIN, MAIN BODY, TYPE B, AS32, TAN, A001-02-0410 (03DK6)	FYH, FYK, FYM, FYP, FXR, FXT, FXV	EA	1
34		SKIN, MAIN BODY, TYPE D, AS21, GREEN, 00-010-436 (03DK6)	FYS, FXW	EA	1
34		SKIN, MAIN BODY, TYPE D, AS21, TAN, A001-02-0412 (03DK6)	FYT, FXX	EA	1
35		SKIN, MAIN BODY, TYPE E, AS21, GREEN, 00-010-487 (03DK6)	FXY	EA	1
35		SKIN, MAIN BODY, TYPE E, AS21, TAN, 00-010-488 (03DK6)	FXZ	EA	1
36		SKIN, MAIN BODY, TYPE C, AS21, GREEN, 00-010-435 (03DK6)	FYQ	EA	1
36		SKIN, MAIN BODY, TYPE C, AS21, TAN, A001-02-0411 (03DK6)	FYR	EA	1

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST - CONTINUED

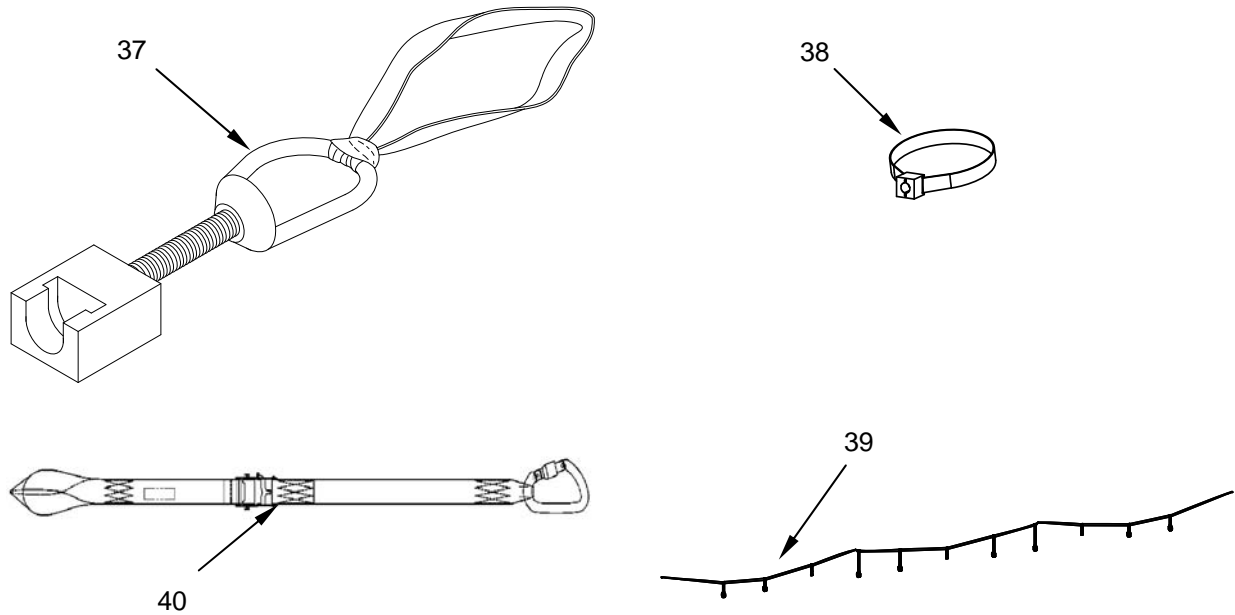


Table 1. Components of End Item List - Continued.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
37		STAKE PULLER BLOCK, 00-010-392 (03DK6)	FXL, FXN, FXQ, FXS, FXU, FXW, FXY, FXM, FXP, FXR, FXT, FXY, FXX, FXZ	EA	1
38		STRAP ASSEMBLY, TOP, POWER DISTRIBUTION POLE, A001-02-0336 (03DK6)	FXL, FXN, FXQ, FXS, FXU, FXW, FXY, FXM, FXP, FXR, FXT, FXV, FXX, FXZ	EA	1
39		STRAP, LIGHT, MEGA, AS32, A001-05-0290 (03DK6)	FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FXV, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV	EA	2
39		STRAP, LIGHT, MEGA, AS21, A001-05-0353 (03DK6)	FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ	EA	2
40		STRAP, SNOW, 00-010-123 (03DK6)		EA	1

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST - CONTINUED

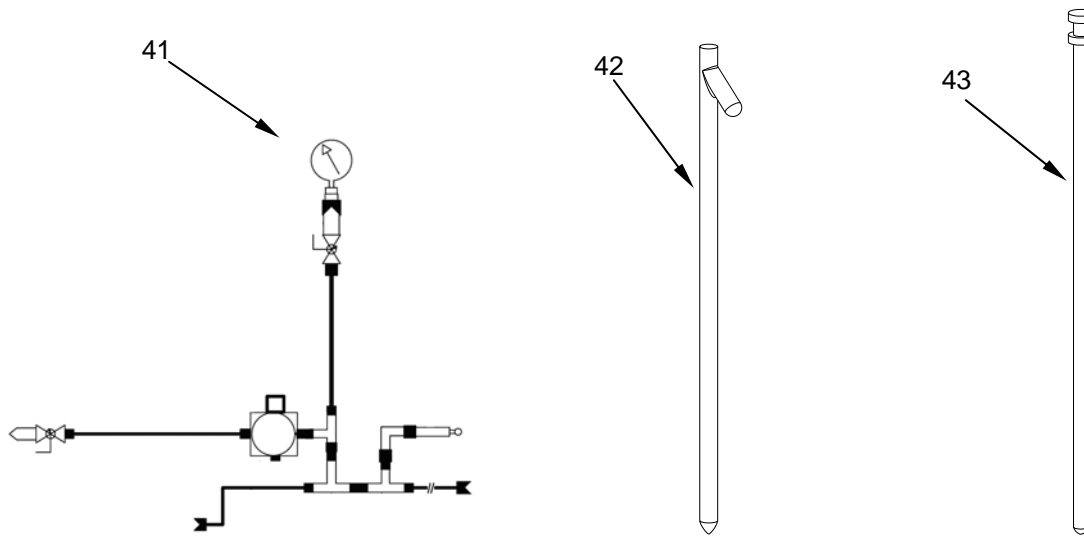


Table 1. Components of End Item List - Continued.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
41		SYSTEM, INFLATION (SINGLE MANIFOLD), AS32, A001-02-0268 (03DK6)	FYA, FYB, FYC, FYD, FYE, FYF, FYG, FYH, FYJ, FYK, FYL, FYM, FYN, FYP, FYU, FYV, FXL, FXM, FXN, FXP, FXQ, FXR, FXS, FXT, FXU, FXV	EA	1
41		SYSTEM, INFLATION (SINGLE MANIFOLD), AS21, A001-02-0043 (03DK6)	FYQ, FYR, FYS, FYT, FXW, FXX, FXY, FXZ	EA	1
42	8340-00-985-7461	TENT PIN, 5/8" X 18", MIL-P-501 (81349)	FYA, FYC, FYU, FXL, FXN, FXQ, FXS, FXU, FXW, FXY, FYB, FYD, FYV, FXM, FXP, FXR, FXT, FXV, FXX, FXZ	EA	16
42	8340-00-985-7461	TENT PIN, 5/8" X 18", MIL-P-501 (81349)	FYE, FYG, FYQ, FYF, FYH, FYR	EA	24
42	8340-00-985-7461	TENT PIN, 5/8" X 18", MIL-P-501 (81349)	FYJ, FYN, FYS, FYK, FYP, FYT	EA	32
42	8340-00-985-7461	TENT PIN, 5/8" X 18", MIL-P-501 (81349)	FYL, FYM	EA	8
43		TENT PIN, 1" X 36", 00-010-281 (03DK6)		EA	4

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST - CONTINUED

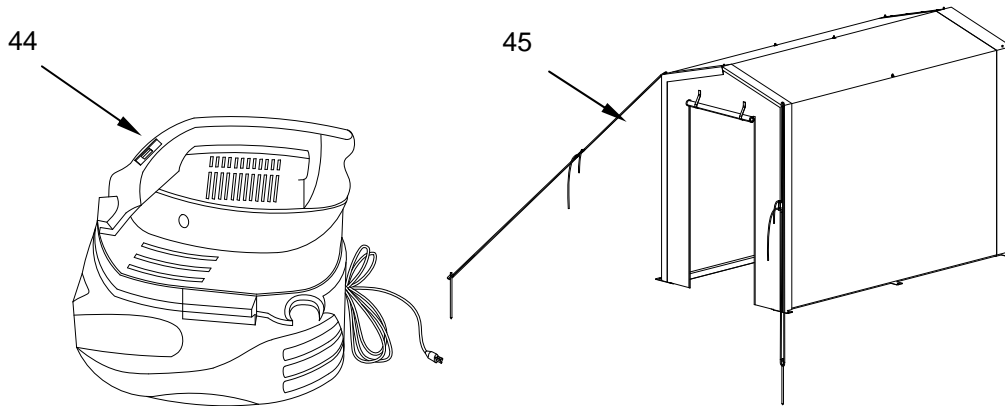


Table 1. Components of End Item List - Continued.

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
44		CLEANER, VACUUM ELECTRIC, AS, 5-13-8226-1 (81337)	FYA, FYC, FYE, FYG, FYJ, FYL, FYN, FYU, FXL, FXN, FXQ, FXS, FXU, FYB, FYD, FYF, FYH, FYK, FYM, FYP, FYV, FXM, FXP, FXR, FXT, FXV, FYQ, FYS, FXW, FXY, FYR, FYT, FXX, FXZ	EA	1
45	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN, 5-4-3370 (81337)	FYJ, FYN, FYS	EA	3
45	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN, 5-4-3370 (81337)	FYE, FYG, FYQ	EA	2
45	8340-01-186-3026	VESTIBULE WITH DOOR, GREEN, 5-4-3370 (81337)	FYA, FYC, FYU, FXL, FXN, FXQ, FXS, FXU, FXW, FXY	EA	1
45	8340-01-198-7621	VESTIBULE WITH DOOR, TAN, 5-4-3370-2 (81337)	FYK, FYP, FYT	EA	3
45	8340-01-198-7621	VESTIBULE WITH DOOR, TAN, 5-4-3370-2 (81337)	FYF, FYH, FYR	EA	2
45	8340-01-198-7621	VESTIBULE WITH DOOR, TAN, 5-4-3370-2 (81337)	FYB, FYD, FYV, FXM, FXP, FXR, FXT, FXV, FXX, FXZ	EA	1

COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LIST - CONTINUED

1 →

ARMY TM 10-8340-244-13&P

TECHNICAL MANUAL
OPERATOR AND FIELD MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)
FOR
TENT, EXTENDABLE, MODULAR, PERSONNEL
(TEMPER), AIR-SUPPORTED

Type XXXI NSN 8340-01-558-4701 (Tan)	Type XL NSN 8340-01-558-8705 (Tan)
NSN 8340-01-559-3852 (Green)	NSN 8340-01-558-8704 (Green)
Type XXXII NSN 8340-01-559-3853 (Tan)	Type XLI NSN 8340-01-558-8707 (Tan)
NSN 8340-01-559-3851 (Green)	NSN 8340-01-558-8706 (Green)
Type XXXIII NSN 8340-01-559-3854 (Tan)	Type XLII NSN 8340-01-558-8709 (Tan)
NSN 8340-01-559-3856 (Green)	NSN 8340-01-558-8708 (Green)
Type XXXIV NSN 8340-01-558-4699 (Tan)	Type XLIII NSN 8340-01-558-8711 (Tan)
NSN 8340-01-558-8698 (Green)	NSN 8340-01-558-8710 (Green)
Type XXXV NSN 8340-01-559-3859 (Tan)	Type XLIV NSN 8340-01-558-8712 (Tan)
NSN 8340-01-559-3855 (Green)	NSN 8340-01-558-8813 (Green)
Type XXXVI NSN 8340-01-558-8699 (Tan)	Type XLV NSN 8340-01-558-8694 (Tan)
NSN 8340-01-559-3858 (Green)	NSN 8340-01-558-8695 (Green)
Type XXXVII NSN 8340-01-558-4702 (Tan)	Type XLVI NSN 8340-01-558-8633 (Tan)
NSN 8340-01-558-8701 (Green)	NSN 8340-01-558-8818 (Green)
Type XXXVIII NSN 8340-01-558-4703 (Tan)	Type XLVII NSN 8340-01-558-8696 (Tan)
NSN 8340-01-558-8703 (Green)	NSN 8340-01-558-8697 (Green)
Type XXXIX NSN 8340-01-558-4704 (Tan)	
NSN 8340-01-558-8702 (Green)	



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

HEADQUARTERS, DEPARTMENT OF THE ARMY
6 APRIL 2009

Table 2. Basic Issue Items (BII)

(1) Illus Number	(2) National Stock Number (NSN)	(3) Description, CAGEC, and Part Number	(4) Usable On Code	(5) Unit of Issue (U/I)	(6) Qty Rqr.
1		TECHNICAL MANUAL OPERATOR AND FIELD MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)) FOR TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER), AIR SUPPORTED, 81337, TM 10- 8340-244 13&P		EA	1

END OF WORK PACKAGE

OPERATOR AND FIELD MAINTENANCE**TEMPER, AIR-SUPPORTED
EXPENDABLE AND DURABLE ITEMS LIST****INTRODUCTION****Scope**

This work package lists expendable and durable items that you will need to operate and maintain the TEMPER, Air-Supported. This list is for information only and is not 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), CTA 50-909, Field and Garrison Furnishings and Equipment, or CTA 8-100, Army Medical Department Expendable/Durable Items.

Explanations of Columns in Expendable/Durable Items List

Column (1) Item No. This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item (e.g., Use brake fluid (WP 0098, Item 5)).

Column (2) Level. This column includes the lowest level of maintenance that requires the listed item (*include as applicable: C=Crew, O=AMC, F=Maintainer or ASB, H=Below Depot or TASMG, D=Depot*).

Column (3) National Stock Number (NSN). This is the NSN assigned to the item which you can use to requisition it.

Column (4) Item Name, Description, Part Number/(CAGEC). This column provides the other information you need to identify the item. The last line below the description is the part number and the Commercial and Government Entity Code (CAGEC) (in parentheses).

Column (5) U/I. Unit of Issue (U/I) code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

Table 1. Expendable and Durable Items List.

(1) Item No.	(2) Level	(3) National Stock Number (NSN)	(4) Item Name, Description, Part Number/(CAGEC)	(5) U/I
1	C, O	8040-01-340-1575	ADHESIVE, HH-66 (25592)	EA
2	C, O	7920-00-514-2417	BRUSH, ACID SWABBING, 803-12 (7S147)	GR
3	C, O	7920-00-240-7174	BRUSH, SCRUB, 7920-00-240-7174 (80244)	EA
4	C, O	7920-01-231-9173	BRUSH, WIRE, STAINLESS, 7187T4 (39428)	EA
5	C, O	4240-01-204-2827	CARTRIDGE, RESPIRATOR, AIR FILTERING, 464023 (55799)	BX
6	C, O	7350-00-290-0577	CUP, PAPER, UU-C-806 (81348)	BX
7	C	7930-00-985-6911	DETERGENT, GENERAL PURPOSE, MILD, MIL-D-16791(81349)	CN
8	O	8415-00-009-1900	GLOVES, CHEMICAL AND OIL PROTECTIVE, N36 (86523)	PR
9	O	4240-00-190-6432	GOGGLES, INDUSTRIAL, ANSIZ87.1-1989 (80204)	PR
10	C, O	7510-00-281-2143	LEAD, PENCIL, GRAPHITE, 1930 (0X226)	DZ
11	C, O	7350-00-899-3055	PLATE, PAPER, 7350-00-899-3055 (80244)	BX

Table 1. Expendable and Durable Items List (Continued).

(1) Item No.	(2) Level	(3) National Stock Number (NSN)	(4) Item Name, Description, Part Number/(CAGEC)	(5) U/I
12	C, O	7920-00-205-1711	RAG, WIPING, 7920-00-205-1711 (80244)	BE
13	C, O		REPAIR KIT, AS, GREEN, 00-010-401 (03DK6), Consists of:	EA
			BAG, STORAGE (OVC DESIGN) (03DK6)	EA
			KNIFE, UTILITY (03DK6)	EA
			NEEDLE, SEWING, SIZE 16 (03DK6)	EA
			PATCHES, ADHESIVE BACKED (MGPTS), 8" X 12" (03DK6)	EA
			PUSHER, NEEDLE, WOOD (03DK6)	EA
			RUB, ALCOHOL, PACKETS (03DK6)	EA
			SCISSORS (03DK6)	EA
			SKIN, BODY, MIL-PRF-44103D, TYPE 2, GRADE A, GREEN, 8 SQ FT (03DK6)	SQ FT
			SKIN, FLOOR, MIL-PRF-44103D, TYPE 4, GRADE B, GRAY, 8 SQ FT (03DK6)	SQ FT
			THREAD, POLYESTER, SIZE FF, 2 OUNCE SPOOL (03DK6)	EA
			STRAP, TIEDOWN (ZIP TIE), 14-inch, A001-05-0293, (39428)	EA
14	C, O	5975-01-506-5235	REPAIR KIT, AS, TAN, A001-02-0271 (03DK6) consists of:	EA
			BAG, STORAGE (OVC DESIGN) (03DK6)	EA
			KNIFE, UTILITY (03DK6)	EA
			NEEDLE, SEWING, SIZE 16 (03DK6)	EA
			PATCHES, ADHESIVE BACKED (MGPTS), 8" X 12" (03DK6)	EA
			PUSHER, NEEDLE, WOOD (03DK6)	EA
			RUB, ALCOHOL, PACKETS (03DK6)	EA
			SCISSORS (03DK6)	EA
			SKIN, BODY, MIL-PRF-44103D, TYPE 2, GRADE A, TAN, 8 SQ FT (03DK6)	SQ FT
			SKIN, FLOOR, MIL-PRF-44103D, TYPE 4, GRADE B, GRAY, 8 SQ FT (03DK6)	SQ FT
			THREAD, POLYESTER, SIZE FF, 2 OUNCE SPOOL (03DK6)	EA
			STRAP, TIEDOWN (ZIP TIE), 14-inch, A001-05-0293, (39428)	EA
15	C, O	4240-01-315-1863	RESPIRATOR, AIR FILTERING, 808071 (55799)	EA
16	C, O		TAPE, DUCT, 1791K70 (39428)	RL
17	C, O	8030-00-889-3535	TAPE, THREAD SEALING, A-A-58092 (58536)	RL

END OF WORK PACKAGE

OPERATOR AND FIELD MAINTENANCE

TOOL IDENTIFICATION LIST

INTRODUCTION

Scope

This work package lists all common tools and supplements and special tools/fixtures needed to maintain the TEMPER, Air-Supported.

Explanation of Columns in the Tool Identification List

Column (1) Item No. This number is assigned to the entry in the list and is referenced in the initial setup to identify the item (e.g., “Hammer, Sledge (WP 0062, Item 3)”).

Column (2) Item Name. This column lists the item by noun nomenclature and other descriptive features (e.g., “Brush, Wire”).

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

Column (4) Part Number/(CAGEC). 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. The manufacturer’s Commercial and Government Entity Code (CAGEC) is also included.

Column (5) Reference. This column identifies the authorizing supply catalog or RPSTL for items listed in this work package.

Table 1. Tools Identification List.				
(1)	(2)	(3)	(4)	(2)
Item No.	Item Name	National Stock Number	Part Number/ (CAGEC)	Reference
1	Hammer, Sledge	4240-01-554-4834	WILHVS1430/ (48982)	TM 10-8340-244-13&P
2	Knife, Utility (Located inside Repair Kit)	5110-01-538-3943	X3274/ (2E624)	TM 10-8340-244-13&P
3	Tape, Measuring, 25 FT	5210-01-139-7444	5210-01-139-7444/ (80244)	TM 10-8340-244-13&P
4	Tool Kit, General Mechanics (GMTK)	5180-01-483-0249	12B470000-1/ (59678)	TM 10-8340-244-13&P
5	Tool, Stake Removal		00-010-392/ (03DK6)	TM 10-8340-244-13&P
6	Wrench, Adjustable, 6-Inch	5120-00-264-3795	B107.8 (05047)	TM 10-8340-244-13&P

END OF WORK PACKAGE

OPERATOR AND FIELD MAINTENANCE**MANDATORY REPLACEMENT PARTS**

MANDATORY REPLACEMENT PARTS LIST

This work package includes a list of all mandatory replacement parts referenced in the task initial setups and procedures. These are items that must be replaced during maintenance whether they have failed or not. This includes items based on usage intervals such as miles, time, rounds, fired, etc.

Table 1. Mandatory Replacement Parts List

Item No.	Part Number/CAGEC	NSN	Nomenclature	Qty
1	MS21044C08 (96906)	5310-00-982-6814	NUT, SELF-LOCKING HEXAGON, NO. 8-32	3
2	MS35333-72 (96906)	5310-00-543-2739	WASHER, LOCK, INTNL TOOTH, NO. 8	3

END OF WORK PACKAGE

**SUPPORTING INFORMATION
ALPHABETICAL INDEX**

INDEX

<u>Subject</u>	<u>WP Sequence No.</u>
A	
Adjustments, Checks, and Services, Initial	WP 0014
B	
Basic Issue Items (BII) Lists	WP 0063
Bulk Material List.....	WP 0057
C	
Capabilities, Features, and Equipment Characteristics	WP 0002
Care, Handling, and Safety	WP 0001
Checks and Services (PMCS).....	WP 0013
Components of End Items (COEI) and Basic Issue Items (BII) Lists	WP 0063
Corrosion Prevention and Control (CPC).....	WP 0001
D	
Data, Equipment	WP 0002
Description and Location of Major Components	WP 0002
Description and Use of Operator's Controls and Indicators.....	WP 0004
Destruction of Army Materiel to Prevent Enemy Use	WP 0001
E	
Equipment Characteristics, Capabilities, and Features	WP 0002
Equipment Description and Data	WP 0002
Equipment Improvement Recommendations (EIR), Reporting.....	WP 0001
Expendable/Durable Items List	WP 0064
F	
Features, Equipment Characteristics, and Capabilities	WP 0002
G	
General Information	WP 0001
H	
I	
Improvement Recommendations (EIR), Reporting Equipment.....	WP 0001
J	
K	
L	
Location and Description of Major Components	WP 0002
M	
Maintenance Allocation Chart (MAC).....	WP 0062
Maintenance Checks and Services (PMCS).....	WP 0013
Maintenance Forms, Records, and Reports	WP 0001
Maintenance Procedures: Operator (Chapter 6)	WP 0014
Field (Chapter 7).....	WP 0038
Major Components: Description and Location of	WP 0002
Mandatory Replacement Parts	WP 0066

SUPPORTING INFORMATION
ALPHABETICAL INDEX

INDEX - CONTINUED

<u>Subject</u>	<u>WP Sequence No.</u>
N	
National Stock Number Index	WP 0058
O	
Official Nomenclature, Names, and Designations	WP 0001
Operation Under Usual Conditions	
Power Distribution and Lighting	WP 0006
Preparation for Movement	WP 0007
Setup	WP 0005
System Configurations	WP 0008
P	
Part Number Index	WP 0059
PMCS Introduction	WP 0012
PMCS Procedures	WP 0013
PMCS Table	WP 0013
Preparation for Movement	WP 0007
Preparation for Shipment	WP 0007
Preparation for Storage	WP 0007
Preventive Maintenance Checks and Services (PMCS), Introduction	WP 0012
R	
Records, and Reports, Maintenance Forms	WP 0001
References	WP 0060
Repair Parts and Special Tools List (RPSTL):	
RPSTL Introduction	WP 0049
Group 01, Outer Skin	WP 0050
Group 02, Liner Assembly	WP 0051
Group 03, Airbeam Assembly	WP 0052
Group 04, Inflation System	WP 0053
Group 05, Electrical System	WP 0054
Group 06, Vestibule Assembly	WP 0055
Group 07, External Bracing	WP 0056
Group 99, Bulk Materials List	WP 0057
Repair Parts and Special Tools List (RPSTL), Introduction	WP 0049
S	
Service Upon Receipt	WP 0014
Setup - Operation Under Usual Conditions	WP 0005
T	
Theory of Operation	WP 0003
Tool Identification List	WP 0065
Troubleshooting	
Troubleshooting Index	WP 0009
Troubleshooting Procedures - Operator	WP 0010
Troubleshooting Procedures - Maintainer	WP 0011

These are the instructions for sending an electronic 2028

The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17, and 27.

From: "Whomever" <whomever@avma27.army.mil>

To: amssbriml@natick.army.mil

Subject: DA Form 2028

1. From: Joe Smith
2. Unit: home
3. Address: 4300 Park
4. City: Hometown
5. St: MO
6. Zip: 77777
7. Date Sent: 19-OCT-93
8. Pub no: 55-2840-229-23
9. Pub Title: TM
10. Publication Date: 04-JUL-85
11. Change Number: 7
12. Submitter Rank: MSG
13. Submitter FName: Joe
14. Submitter MName: T
15. Submitter LName: Smith
16. Submitter Phone: 123-123-1234
17. Problem: 1
18. Page: 2
19. Paragraph: 3
20. Line: 4
21. NSN: 5
22. Reference: 6
23. Figure: 7
24. Table: 8
25. Item: 9
26. Total: 123
27. Text:

This is the text for the problem below line 27.

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is ODISC4.						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE 21 October 2003
TO: (Forward to proponent of publication or form) (Include ZIP Code) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LC-LMPP/TECH PUBS 1 Rock Island Arsenal Rock Island, IL 61299-7630						FROM: (Activity and location) (Include ZIP Code) <i>PFC JANE DOE</i> Co A 3 RD Engineer Br. Ft Leonard Wood, MO 63108	
PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER TM 10-1670-296-23&P				DATE 30 October 2002	TITLE Unit Manual for Ancillary Equipment for Low Velocity Air Drop Systems		
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON (Provide exact wording of recommended changes, if possible).	
	0036 00-2				1	<p><i>In Table 1, Sewing Machine Code Symbols, the second sewing machine code symbol should be MDZZ not MD22</i></p> <p><i>Change the manual to show Sewing Machine, Industrial: Zig-Zag; 308 stitch; medium-duty; NSN 3530-01-181-1421 as a MDZZ code symbol.</i></p>	
<i>*Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE Jane Doe, PFC				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION (508) 233-4141 DSN 256-4141		SIGNATURE Jane Doe <i>Jane Doe</i>	

TO: <i>(Forward direct to addressee listed in publication)</i> US ARMY TACOM LIFE CYCLE MANAGEMENT ATTN: AMSTA-LC-LMPP/TECH PUBS 1 Rock Island Arsenal Rock Island, IL 61299-7630	FROM: <i>(Activity and location) (Include ZIP Code)</i> PFC JANE DOE Co A 3 RD Engineer Br. Ft Leonard Wood, MO 63108	DATE 21 October 2003
--	--	--------------------------------

PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER TM 10-1670-296-23&P	DATE 30 October 2002	TITLE Unit Manual for Ancillary Equipment for Low Velocity Air Drop Systems
---	-------------------------	--

PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION
0066 00-					4			<i>Callout 16 in figure 4 is pointed to a <u>D-Ring</u>. In the Repair Part List key for Figure 4, item 16 is called a <u>Snap Hook</u>. Please correct one or the other.</i>

PART III – REMARKS *(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)*

--	--	--

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
----------------------------	--	-----------

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is ODISC4.	Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
---	---	------

TO: (Forward to proponent of publication or form) (Include ZIP Code) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LC-LMPP/TECH PUBS 1 Rock Island Arsenal Rock Island, IL 61299-7630	FROM: (Activity and location) (Include ZIP Code)
--	---

PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS

PUBLICATION/FORM NUMBER TM 10-8340-244-13&P	DATE 17 JULY 2009	TITLE Operator and Field Maintenance Manual including RPSTL for Tent, Expandable, Modular Personnel (TEMPER), Air-Supported
--	--------------------------	---

ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON <i>(Provide exact wording of recommended changes, if possible).</i>

**Reference to line numbers within the paragraph or subparagraph.*

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
----------------------------	--	-----------

TO: (Forward to proponent of publication or form) (Include ZIP Code) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LC-LMPP/TECH PUBS 1 Rock Island Arsenal Rock Island, IL 61299-7630	FROM: (Activity and location) (Include ZIP Code)	DATE
--	---	-------------

PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER TM 10-8340-244-13&P	DATE 17 JULY 2009	TITLE Operator and Field Maintenance Manual including RPSTL for Tent, Expandable, Modular Personnel (TEMPER), Air-Supported
---	--------------------------	---

PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

PART III – REMARKS (Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
----------------------------	--	-----------

TO: (Forward to proponent of publication or form) (Include ZIP Code) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LC-LMPP/TECH PUBS 1 Rock Island Arsenal Rock Island, IL 61299-7630	FROM: (Activity and location) (Include ZIP Code)	DATE
--	---	-------------

PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER TM 10-8340-244-13&P	DATE 17 JULY 2009	TITLE Operator and Field Maintenance Manual including RPSTL for Tent, Expandable, Modular Personnel (TEMPER), Air-Supported
---	--------------------------	---

PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

PART III – REMARKS (Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
----------------------------	--	-----------

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is ODISC4.						Use Part II (<i>reverse</i>) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
TO: (<i>Forward to proponent of publication or form</i>) (<i>Include ZIP Code</i>) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LC-LMPP/TECH PUBS 1 Rock Island Arsenal Rock Island, IL 61299-7630						FROM: (<i>Activity and location</i>) (<i>Include ZIP Code</i>)	
PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER TM 10-8340-244-13&P						DATE 17 JULY 2009	TITLE Operator and Field Maintenance Manual including RPSTL for Tent, Expandable, Modular Personnel (TEMPER), Air-Supported
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON <i>(Provide exact wording of recommended changes, if possible).</i>	
<i>*Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE					TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE

TO: (Forward to proponent of publication or form) (Include ZIP Code) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LC-LMPP/TECH PUBS 1 Rock Island Arsenal Rock Island, IL 61299-7630	FROM: (Activity and location) (Include ZIP Code)	DATE
--	---	-------------

PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER TM 10-8340-244-13&P	DATE 17 JULY 2009	TITLE Operator and Field Maintenance Manual including RPSTL for Tent, Expandable, Modular Personnel (TEMPER), Air-Supported
---	--------------------------	---

PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

PART III – REMARKS (Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
----------------------------	--	-----------

TM 10-8340-244-13&P

By Order of the Secretary of the Army:

GEORGE W. CASEY, JR.
General, United States Army
Chief of Staff

Official:



JOYCE E. MORROW
Administrative Assistant to the
Secretary of the Army
0920801

Distribution: To be distributed in accordance with initial distribution number (IDN) 251003 requirements for TM 10-8340-244-13&P.

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 temperature $\frac{5}{9}$ (after subtracting 32) Celsius temperature _C

PIN: 085614-000