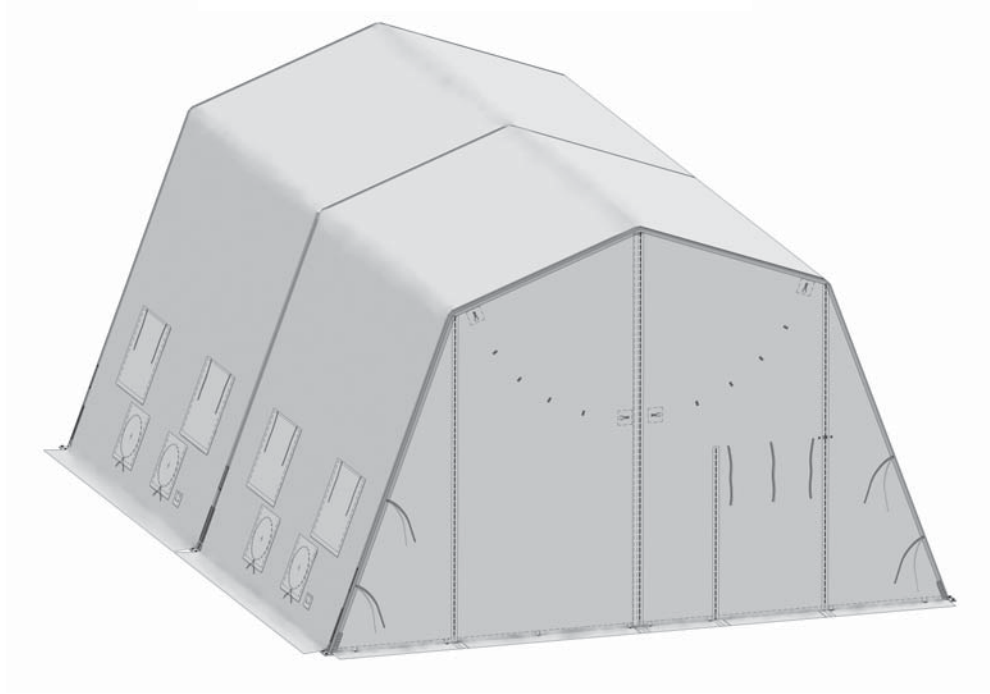


Assembly Instructions



Vehicle Maintenance Shelter 25' x 32' - VMS With Extension Kits



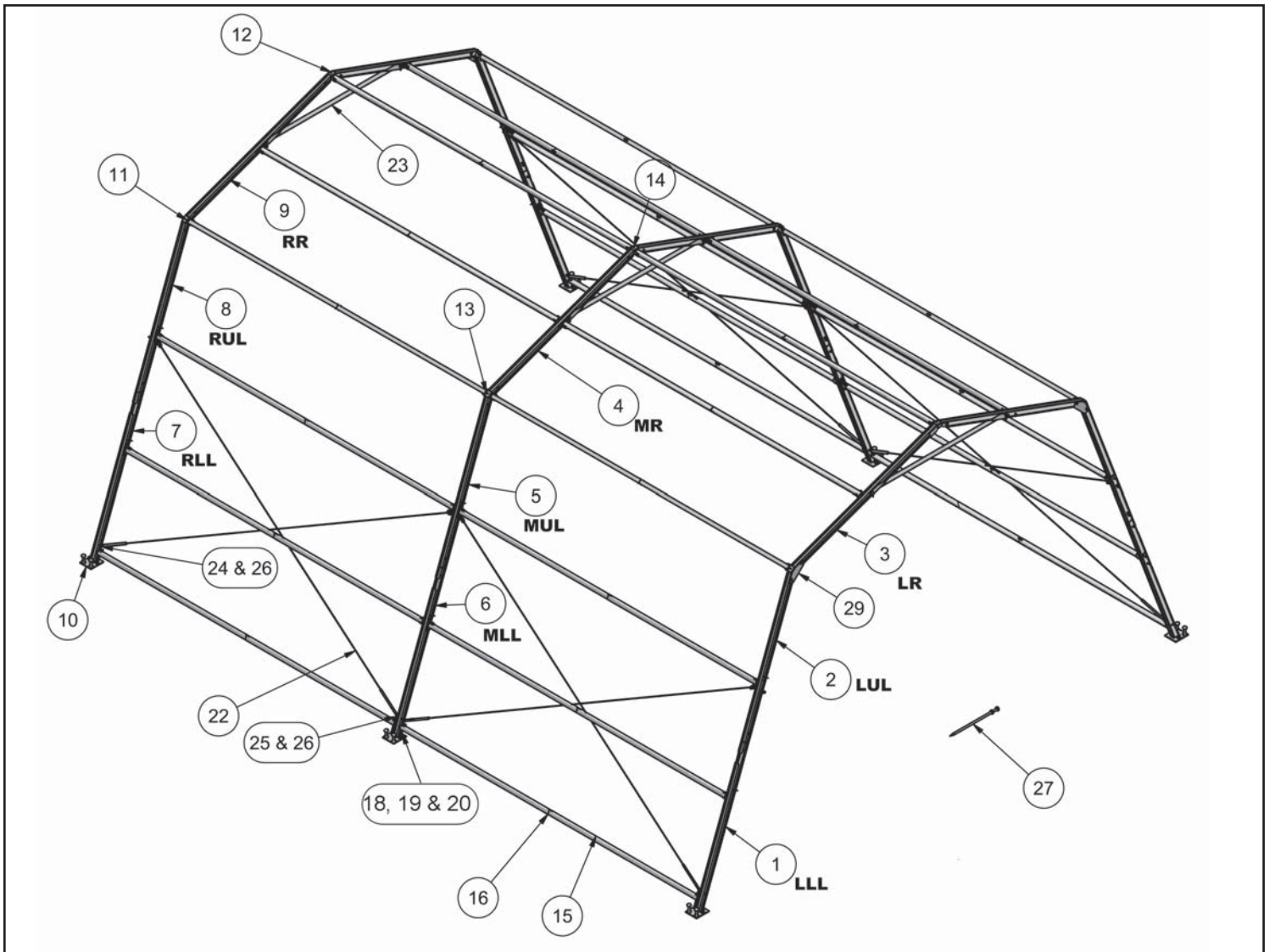
Please read all assembly/installation instructions before the installation or removal of this product.
Assembly Instructions are also available on the web at: www.anchorinc.com

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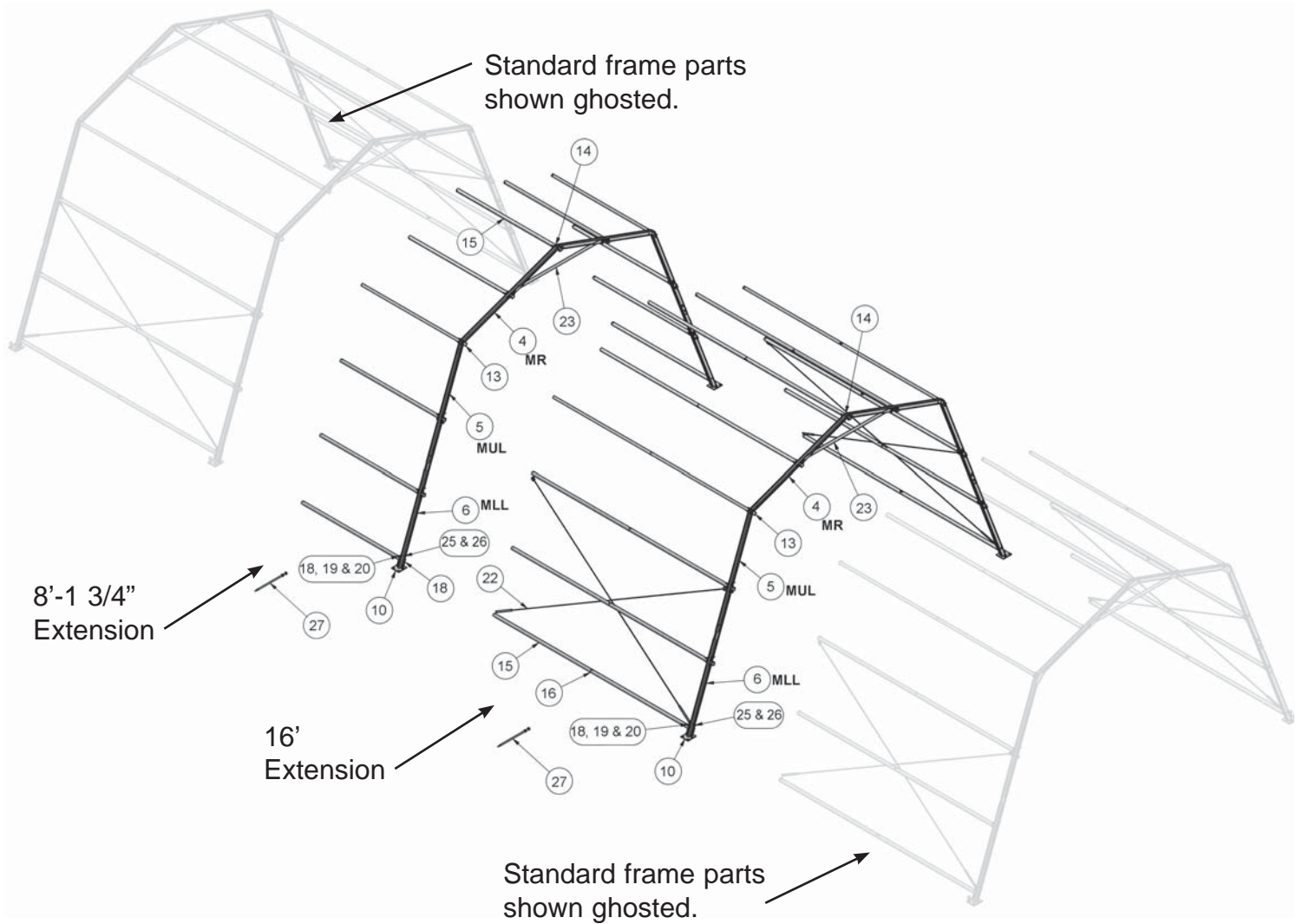
Production Facilities
Evansville, IN

VMS Standard Frame Terminology and Parts List



VMS (25' x 32') Parts List						VMS (25' x 32') Parts List (cont'd)					
Item No.	Qty	Part No.	Description	Pounds per Item	Label	Item No.	Qty	Part No.	Description	Pounds per Item	
1	2	80810	Left Lower Leg	25.8	LLL	18	8	3023897	J Bolt	-	
2	2	80813	Left Upper Leg	18.6	LUL	19	8	3025387	Washer	-	
3	2	80816	Left Rafter	20.6	LR	20	8	3024390	Wing Nut	-	
4	2	80819	Mid Rafter	21.2	MR	22	8	80834	Cable for 16'-0" Bay	5.0	
5	2	80820	Mid Upper Leg	19.4	MUL	23	3	3582260	Ridge Brace	16.4	
6	2	80821	Mid Lower Leg	28.7	MLL	24	4	3023260	3/8" x 3" Bolt	-	
7	2	80822	Right Lower Leg	25.8	RLL	25	2	3020445	Eye Bolt	-	
8	2	80823	Right Upper Leg	18.6	RUL	26	6	3024015	Eye Nut	-	
9	2	80846	Right Rafter	20.6	RR	27	22**	3704230	Dbl. Hd. Stake (1" x 30")	8.0	
10	6	80839	Base Plate Weldment	7.6		29	4	80847	Eave Cover	-	
11	4	80824	Eave End Weldment	9.9		30	1	8003720	Installation Kit: (2) Pull ropes (30a) (1) Zipper tool (30b) (4) Frame lifts (30c)	25.0	
12	2	80827	Peak End Weldment	9.8							
13	2	80828	Eave Mid Weldment	9.9							
14	1	80829	Peak Mid Weldment	9.8							
15	44	80830	Half Purlin	7.7		*No weight is listed for items under one pound.					
16	22	80831	Purlin Splice	2.2		**(10) Stakes are used for gable end fabric installation. (5)					

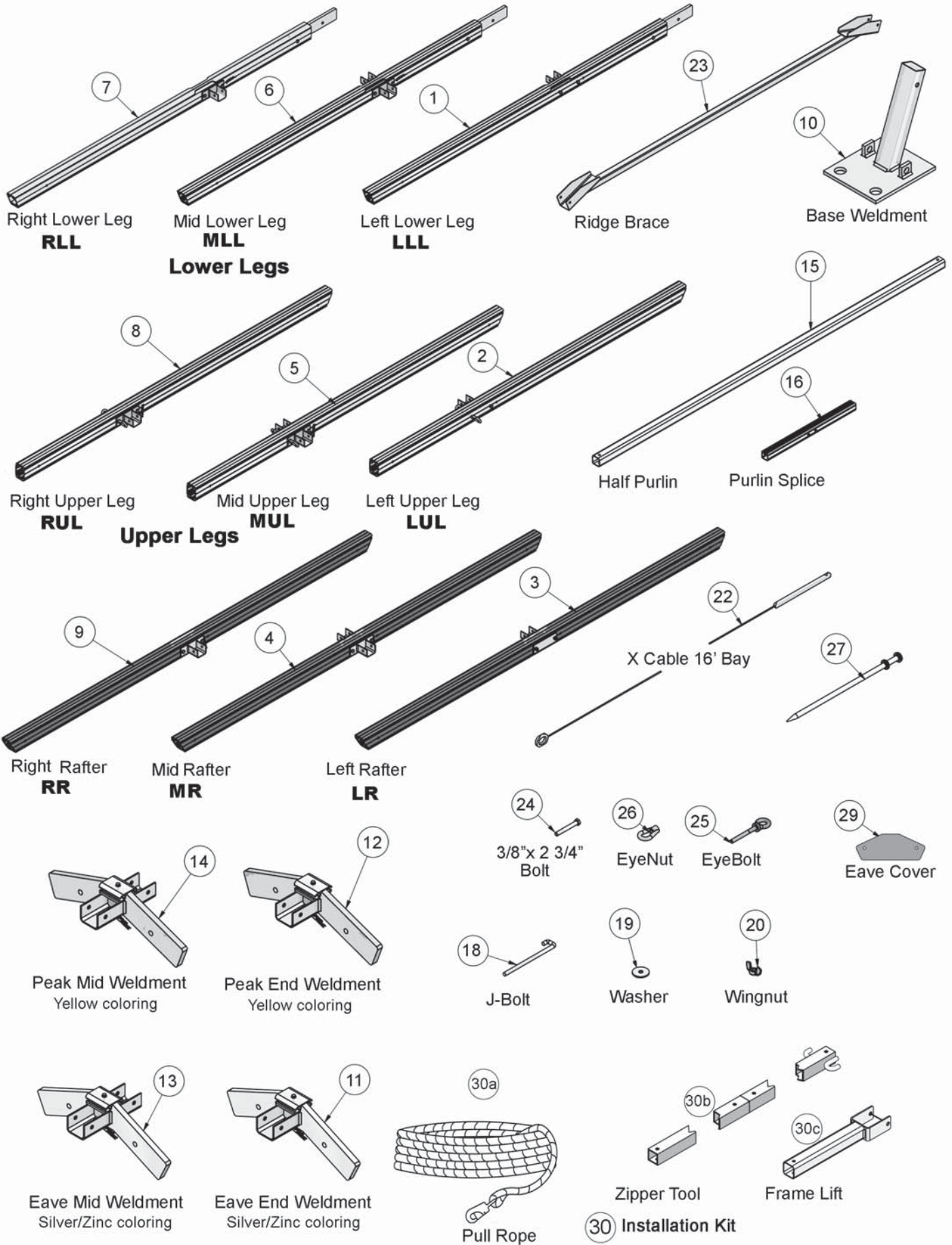
VMS Frame Extensions Terminology



8' Frame Extension Kit						16' Frame Extension Kit					
Item No.	Qty	Part No	Description	Pounds per Item	Label	Item #	Qty	Part #	Description	Pounds per Item	Label
4	2	80819	Mid Rafter	21.2	MR	4	2	80819	Mid Rafter	21.2	MR
5	2	80820	Mid Upper Leg	19.4	MUL	5	2	80820	Mid Upper Leg	19.4	MUL
6	2	80821	Mid Lower Leg	28.7	MLL	6	2	80821	Mid Lower Leg	28.7	MLL
10	2	80839	Base Plate Weldment	7.6		10	2	80839	Base Plate Weldment	7.6	
13	2	80828	Eave Mid Weldment	9.9		13	2	80828	Eave Mid Weldment	9.9	
14	1	80829	Peak Mid Weldment	9.8		14	1	80829	Peak Mid Weldment	9.8	
15	11	80830	Half Purlin	7.7		15	22	80830	Half Purlin	7.7	
18	4	3023897	J Bolt	-		16	11	80831	Purlin Splice	2.2	
19	4	3025387	Washer	-		18	4	3023897	J Bolt	-	
20	4	3024390	Wing Nut	-		19	4	3025387	Washer	-	
23	1	3582260	Ridge Brace	16.4		20	4	3024390	Wing Nut	-	
24	2	3023246	3/8" Bolt x 2 3/4"	-		22	4	80834	Cable for 16'-0" Bay	5.0	
27	4	3704230	Dbl Hd Stake 1" x 30"	8.0		23	1	3582260	Ridge Brace	16.4	
31	2	3024445	3/8" Nylock Nut	-		25	2	3020445	Eye Bolt	-	
						26	6	3024015	Eye Nut	-	
						27	12	3704230	Dbl Hd Stake 1"x 30"	8.0	

*No weight is listed for items under one pound.

VMS Component Illustrations



VMS INSTALLATION SAFETY GUIDELINES

Please read through this assembly manual completely before beginning your installation. Be sure the proper equipment, crew and safety precautions are in place. We hope that you enjoy the design features of the Vehicle Maintenance Shelter each time the unit is installed.

1. **Be aware to avoid contact of frame sections with any overhead power lines near the site.**
2. **When anchoring the structure, avoid all underground power lines and gas lines or other utility easements.**
3. When moving frame sections by hand, use proper lifting techniques to protect the back, and avoid pinching fingers while making hardware connections.
4. Be sure all workers are cautious and attentive to the falling paths of frame sections being raised or lowered.
5. Keep site clear of debris to avoid tripping, especially while carrying frame parts or bundles of fabric.
6. Do not drag bundles of fabric on concrete, asphalt, or ground as this can cause damage to the fabric from abrasion through the bag.
7. Do not climb onto the fabric "roof" of the structure. When necessary, work safely from a ladder of appropriate size.
8. When standing or lowering frame sections use a smooth motion.
9. Before installing fabric, be sure the frame is safely staked at baseplates and that X-cabling is in place.
10. The installation method described here requires coordination of tasks between workers. A safe installation is dependent on that coordination. Work cooperatively as a team.

Tools Required: 12' Step Ladder
Sledge Hammer
50' Tape Line

Note: This installation is for the standard 2-mid bay Base Unit unless noted otherwise.

Note: For installation of frames with extension kits, look for notes inside these outlined boxes for special instructions.

STEP 1

Assemble 18 purlins from two purlin halves (2"x2" aluminum tubes about 8' long) and a purlin splice (Aluminum part 2' long with snap buttons in the center.) See **Figure 1**.

Note: On 8' Extension kits - only (1) half purlin is required, and no purlin splice.

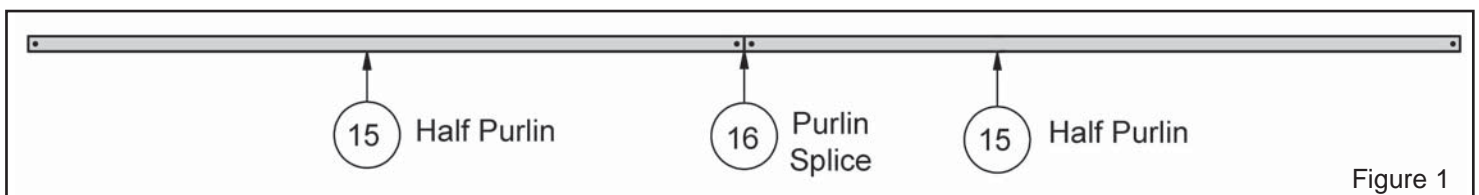
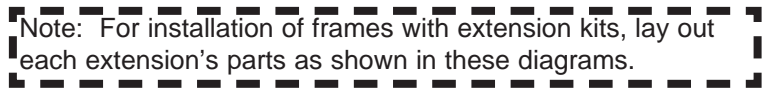


Figure 1

- Lay out parts as shown. **See Figure 2.**

- Important:** For ease of installation, note that labels are always located on the upper ends of frame members.



STEP 3 - Add Upper Legs to one Side. See Figure 3.

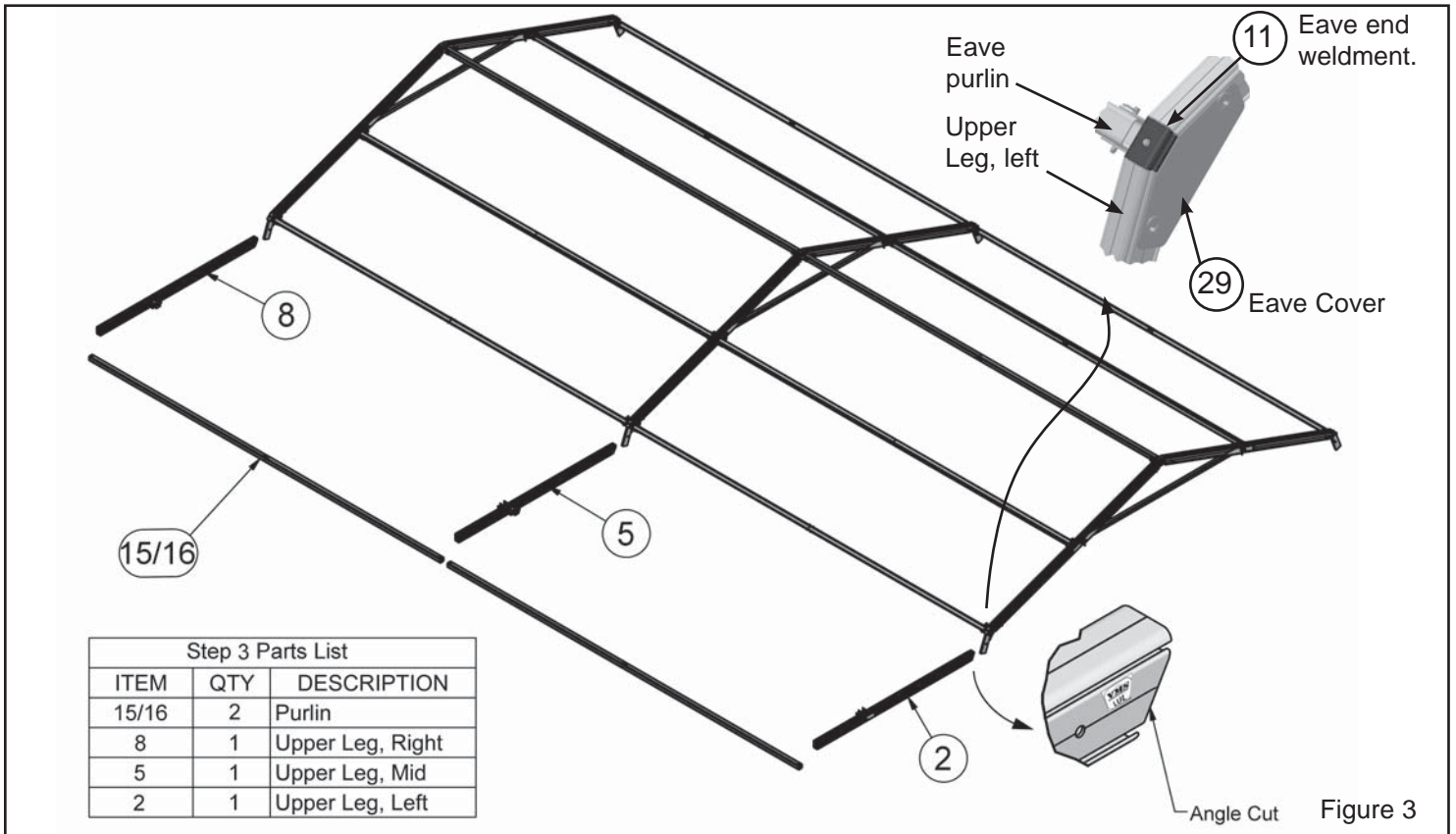


Figure 3

- Lay out the parts as shown. Three (3) upper legs and two (2) purlins.
- The upper leg has angled cuts on one end and square cut on the other.
- The angled/labeled end goes toward the eave weldments.
- Lift the top frame using the eave purlins and insert the upper leg onto the eave weldments. Secure with pin.
- Connect the upper legs together with 2 purlins. This is easiest if the purlin is pinned to the mid leg first before the end leg is moved into alignment and pinned.
- Pin the four eave covers (2 per end) on each end as shown above.

STEP 4 - Add Upper Legs to the other Side. See Figure 3.

- Assemble as the previous step.

STEP 5 - Add Lower Legs to Side.

- Lay out the parts. Three (3) lower legs, three (3) base plates and two (2) purlins. See Figure 5a.

- The lower leg has a splice inserted in the square cut end. The splice goes toward the upper leg.

- The base plates should be secured in the legs with the appropriate hardware. Bolt and eyenuts on the end legs, eyebolt and eyenut for the mid leg. See Figure 5b.

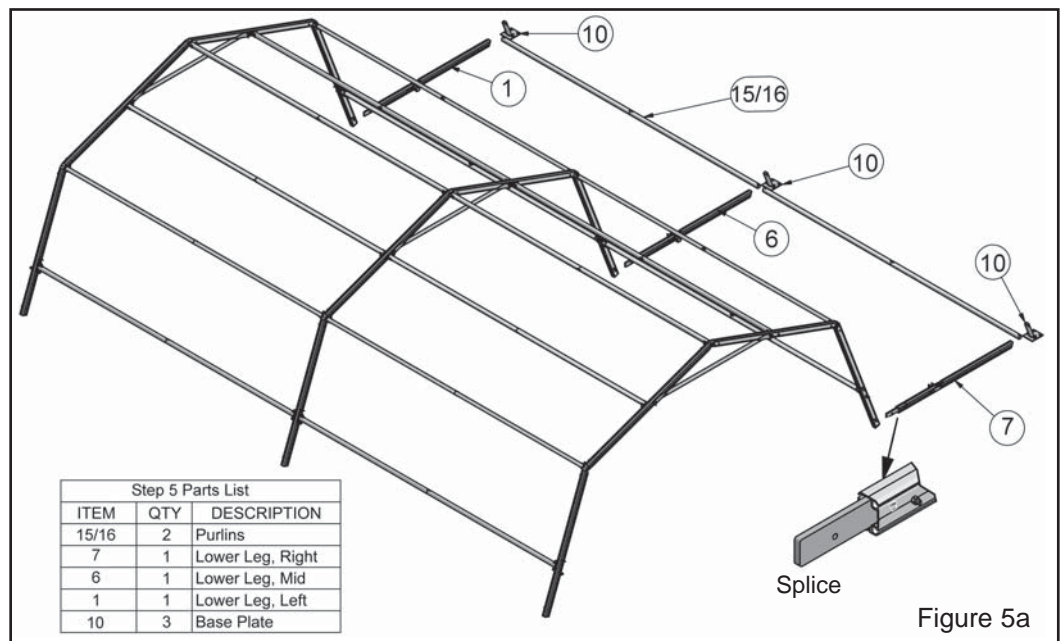


Figure 5a

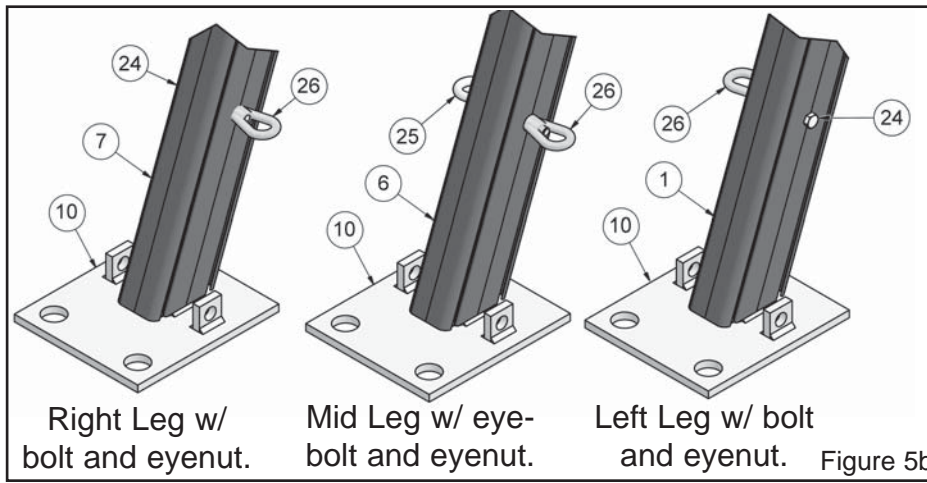
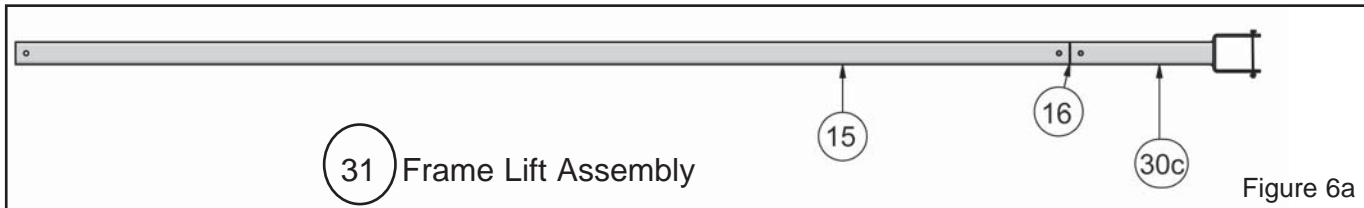


Figure 5b Parts List		
ITEM	Qty	Description
24	2	3/8" x 2 3/4" Bolt
26	3	Eye Nut
25	1	Eye Bolt
10	3	Base Plate Weldment
7	3	Lower Leg Right
6	3	Lower Leg Mid
1	3	Lower Leg Left

Note: On 8' Extension Kits, substitute the Eye Nut and/or Eye Bolt (Items 25 & 26) with Bolt and/or Nylock Nut (Items 24 & 31) because eyes will not be required on 8' bays where cables are not required.

STEP 6 - Add Lower Legs to the remaining side.

- Connect the four (4) frame lifts to a half purlin with a splice to form the frame lift assembly. See Figure 6a.



- Lay out the parts as the previous step. Secure the base plates to the legs with the appropriate hardware.
- Secure the frame lifts to the purlin on the upper leg with the shock cord. The shock cord should be next to the leg and the half purlin lying more or less under the purlin. See Figure 6b.

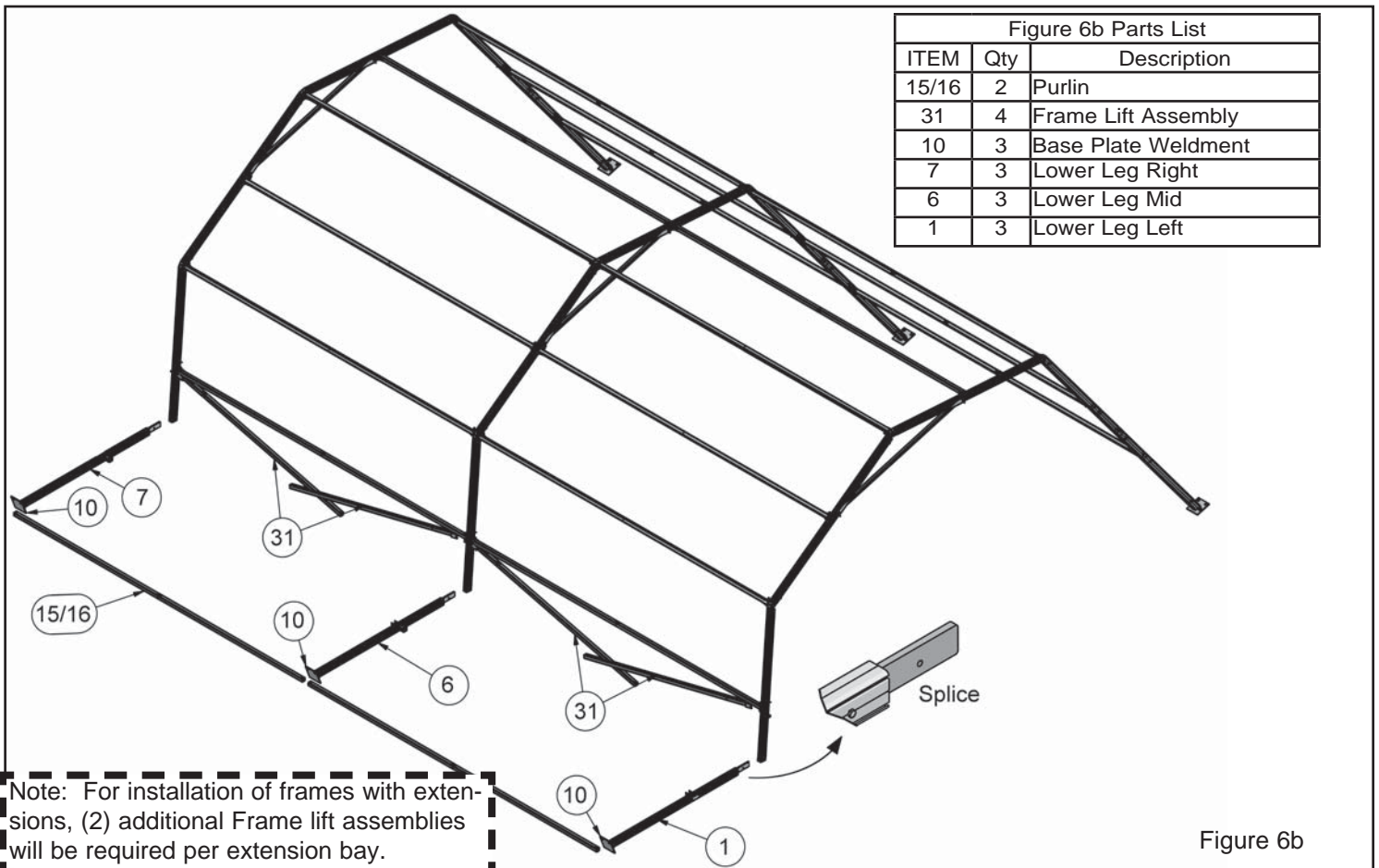


Figure 6b Parts List		
ITEM	Qty	Description
15/16	2	Purlin
31	4	Frame Lift Assembly
10	3	Base Plate Weldment
7	3	Lower Leg Right
6	3	Lower Leg Mid
1	3	Lower Leg Left

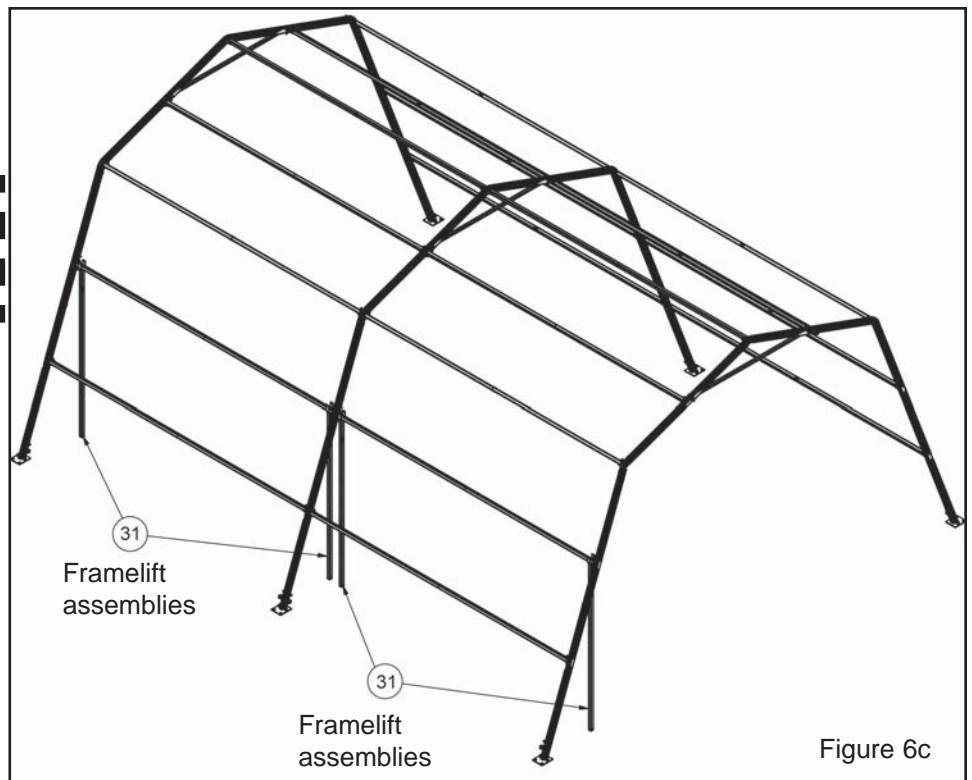
Note: For installation of frames with extensions, (2) additional Frame lift assemblies will be required per extension bay.

- Ensure sufficient personnel are on hand to lift the side (6 minimum, 5 lifting, 1 placing legs.)

Note: For installation of frames with extension kits, (2) more persons and (2) more frame lift assemblies are required for each extension bay.

- Start lifting the side using the purlins at positions close to the legs, shifting to the base of the upper leg to get the necessary height. The purlin lifts should provide additional vertical support at this point. See Figure 6c.

- Insert the spliced end of the mid lower leg into the mid upper leg. Then insert the spliced end of the lower legs into their respective upper legs. Pin the splices into the upper legs.



STEP 7 - Position and stake the base plates of the remaining side.

- Position one end base plate 25'-10" from the other end base plate. Measurement is from outside edge of plate to outside edge of plate. See figure 7a.
- Then measure from this base plate diagonally to the opposite base plate. Measurement should be 39'-10" from inside corner to inside corner. See figure 7a.
- Lightly stake the plate in position.
- Position the other end base plate 25'-10" from its corresponding mate and lightly stake in place.
- Align the mid base plate between the two ends but **do not stake** in place. **Stake only after ground bars and J bolts are inserted into mids and base plates. (See Steps 9 to 10)**
- Check and adjust until the diagonal measurements are equal.

Note: For installation of frames with extension kits, use figures 7b and 7c for measurements.

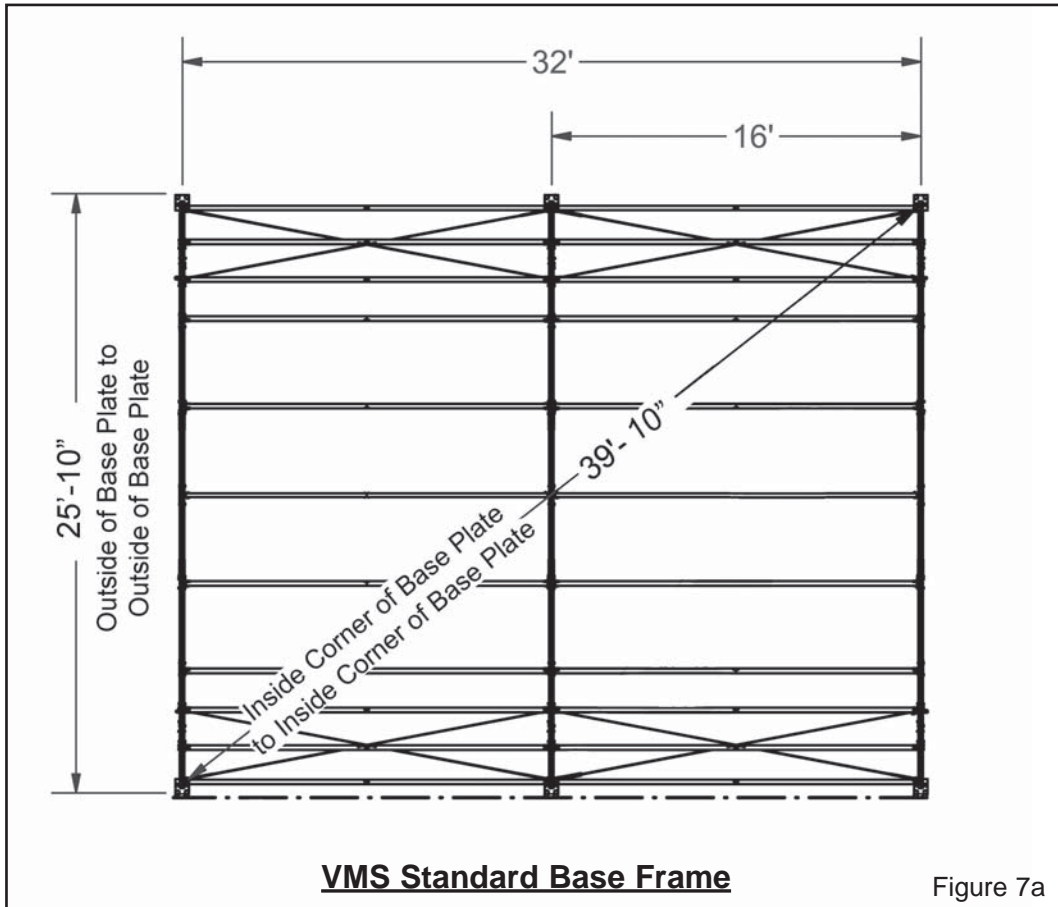


Figure 7a

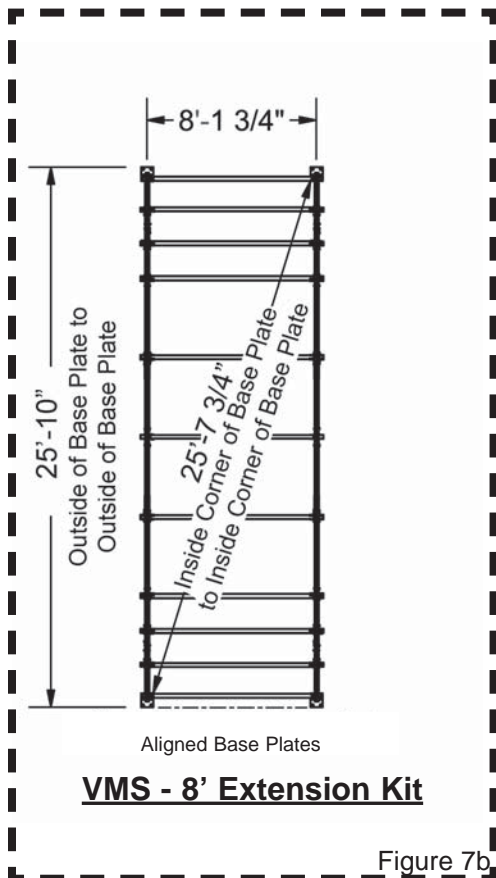


Figure 7b

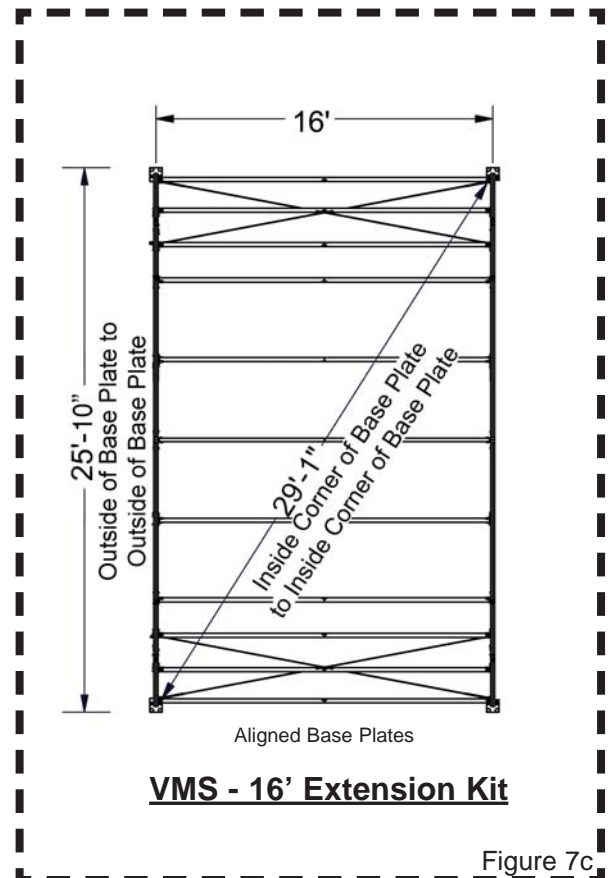
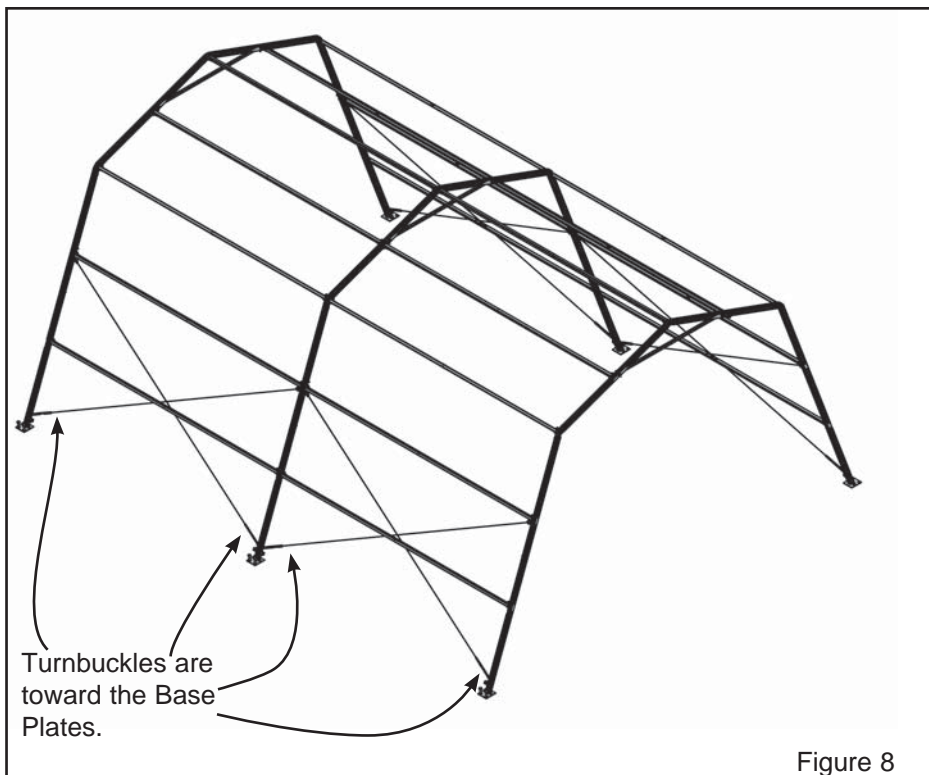
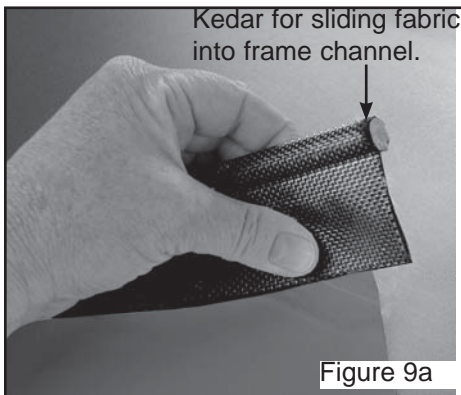


Figure 7c

STEP 8 - Attach X Cables.

- Hook the cables into position as shown. Note the turnbuckles are at the bottom for ease of access and adjustment. **See figure 8.**

- Tension the cables to square the frame. Use a level if possible to check the squareness of the frame. If no level is available, the gap in the turnbuckles should be approximately equal.



STEP 9 - Pull first fabric mid panel into place.

- Throw the snap ends of the two (2) pull ropes from the installation kit over the top of frame. **See Figure 9b.**

- **CAUTION: Be certain area is clear so as not to strike anyone while throwing the pull ropes over the top.**

- Lay the mid fabric next to the bottom of the legs. Mid should be loosely stacked to permit feeding into the slots near the top of the lower legs.

- Snap the pull ropes onto the rings of the mid.

- Insert kedar ends of mids into slots (See Kedar in **Figure 9a**).

- Two (2) to four (4) persons pull the fabric over the top of the frame down to the bottom of the far leg, while two (2) persons guide the edges into the slots. **See Figure 9b.**

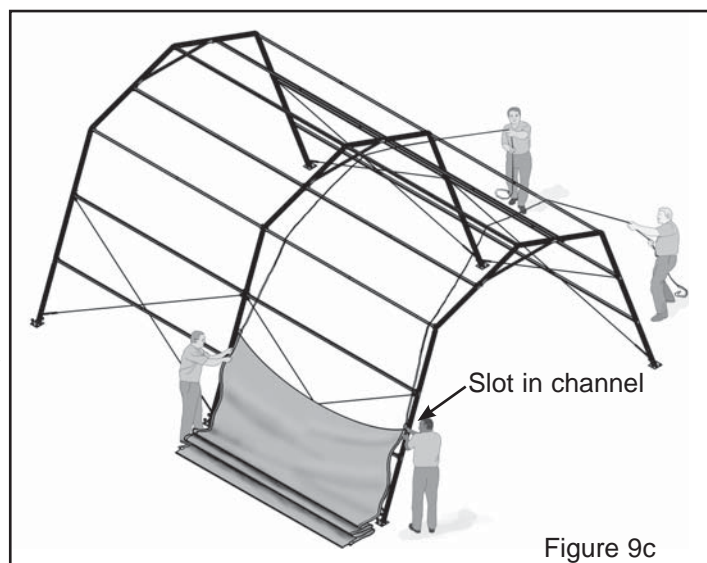
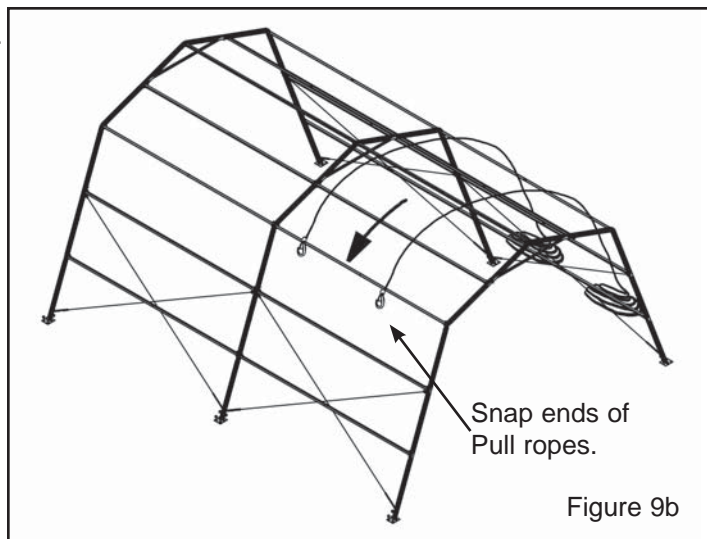
- Disconnect the pull lines.

- **CAUTION: Be certain at all times that fabric is not caught on any part of the frame to prevent damage to the fabric.**

- Insert the trailing kedar edges into the slots and work back down to the bottom of the near leg.

- Remove the half-purlins and splices from the frame lifts and attach the remaining half purlins to create four (4) purlins which will now be used as ground bars to secure and tension the lower edges of the mid panels.

- Loosen and release the bottom of the X-Cables to permit installation of the ground bars.



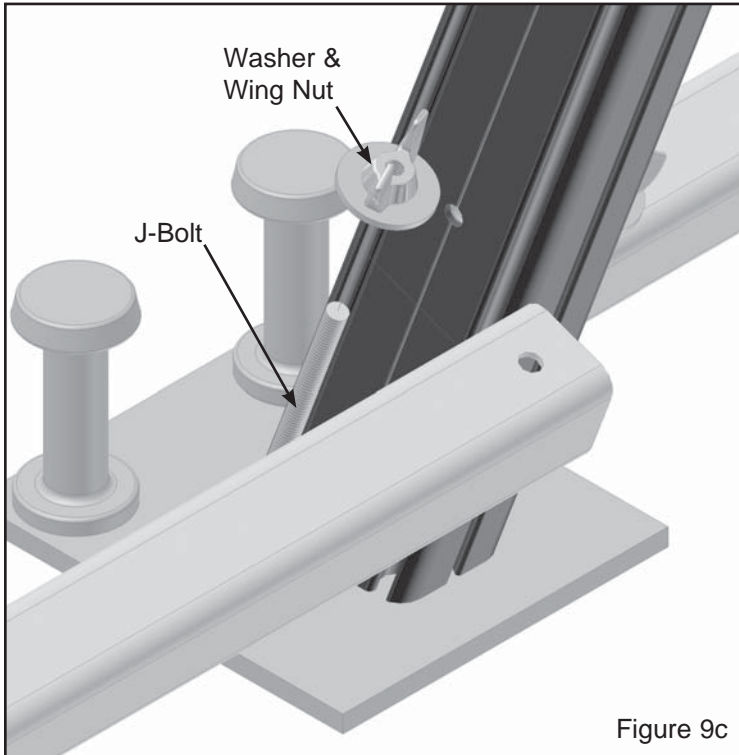


Figure 9c

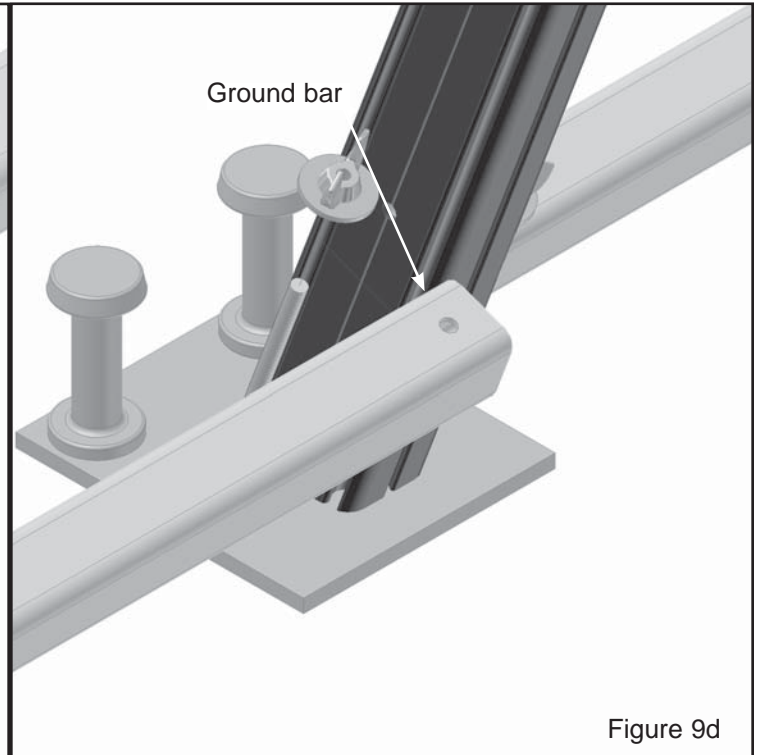


Figure 9d

- Insert a ground bar into the pocket at the bottom of each side of the mid panel.
- Hook J-Bolt through hole in vertical plate on base plate and lower ground bar onto J-Bolt. Secure with washer and wing nut. Wing Nuts are used to tension and position the fabric. **See figures 9c through 9f.**
- Re-attach the bottom of the X-Cables and re-tension.

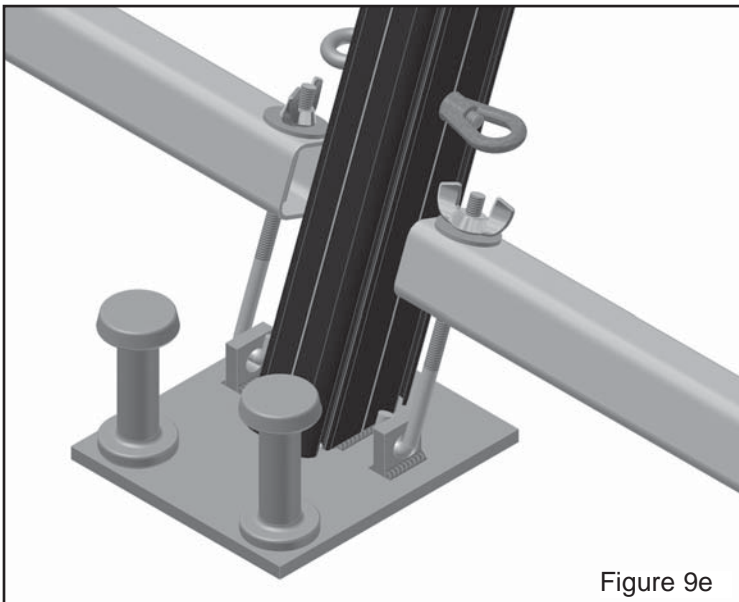


Figure 9e

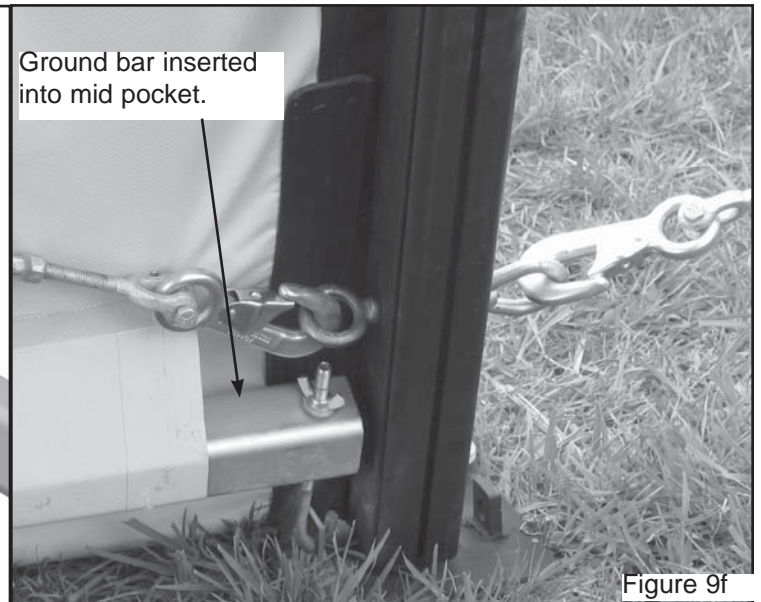


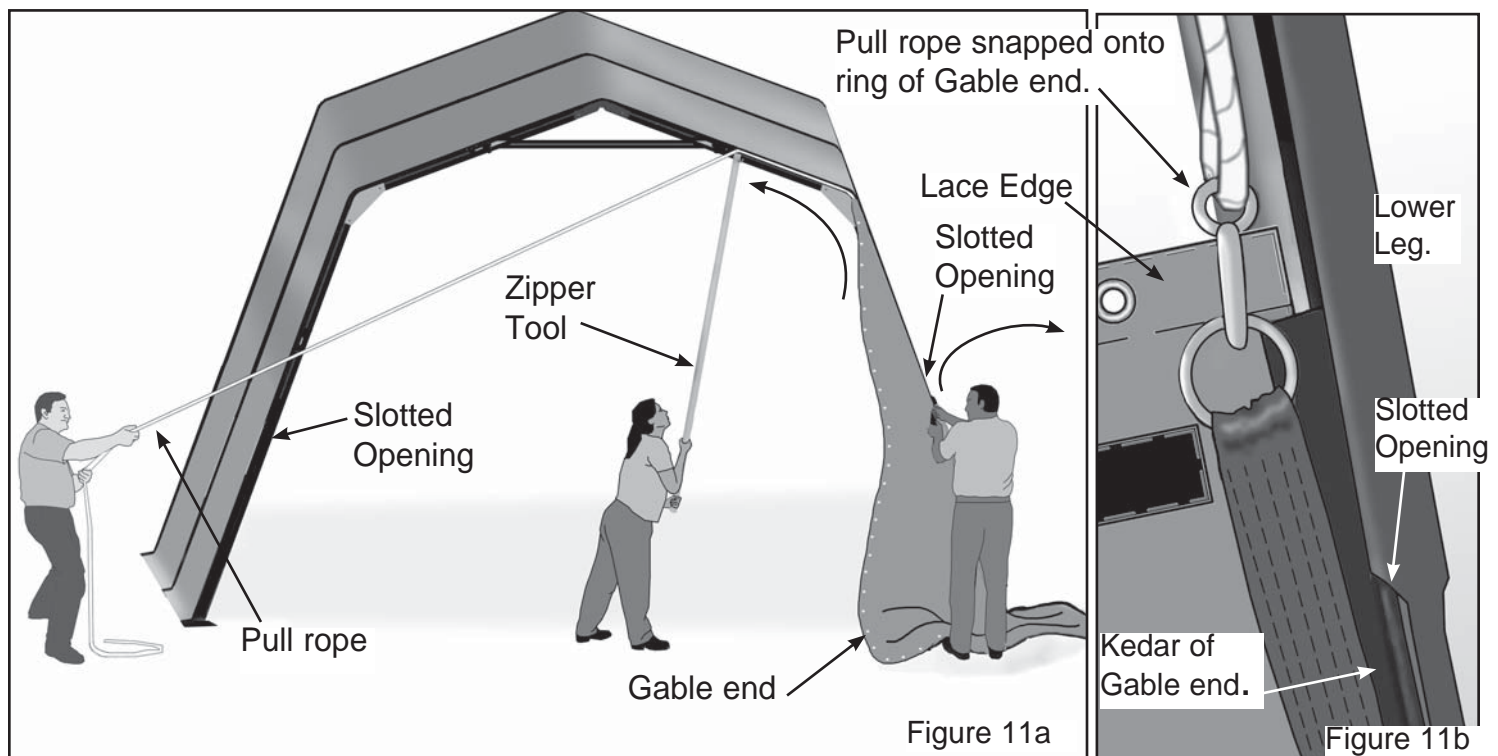
Figure 9f

STEP 10 - Pull second mid panel into place.

- Proceed as with the first mid.

STEP 11 - Pull first gable end into place

- Be certain that the zippers of the Gable End are unzipped for ease of installation.
- Lay out one half of gable end panel at bottom of the appropriate end leg. White side of gable end to inside of tent and lace edge goes in first. **See figures 11a and 11b.**
- Insert lace edge end of kedar into slotted opening of top/outer channel of lower leg. Push the inserted kedar up the channel of the leg as far as possible (to about the corner). The zipper tool will be required to push the kedar up past the corner.
- Once the kedar is past the corner, the zipper tool may be used to guide the pull rope while another person pulls on the rope until the lace edge of the gable end reaches the peak point of the frame. **See figure 11a.**
- Disconnect the pull rope.
- Repeat this process for the other side of the gable end.
- Go back to the slots where you started gable end installations, and stuff the remaining kedar into the lower channels below the slotted openings down to bottom of leg.
- Join the two halves of the gable end at top and bottom with the carabiners attached to the top and bottom rings on the loop side.
- Using a ladder, start lacing at the top of the gable and continue lacing until you reach the bottom loop. Tie off bottom loop. As you are lacing, cover lacing with the protective flap and velcro closed.
- Gable end may be staked with stakes provided.



Your Vehicle Maintenance Shelter is now ready for use.





NOTES:



Thank you for purchasing an Anchor product. In return, we pledge Quality, Service and Craftsmanship and are available for any questions you may have or assistance you may need.

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CAUTION:

1. For each installation, the installer is solely responsible for evaluating the site and the proper securing method determined. Some soils require different staking or securing than that provided with the tent. Due to this variety of soil conditions, these are the manufacturer's suggested sequence of installation procedures. Anchor's responsibility is limited to the construction of the tent. We are not responsible for methods that installers may choose to secure the tent to the ground.

2. Inasmuch as the weather is unpredictable, good judgment and common sense must be incorporated within installation guidelines. It is the responsibility of the tent installer/maintainer to determine the severity of the weather, proper time and method of installation and/or erection and disassembly.

This product has been manufactured for use as a temporary structure. For the safety of all occupants, evacuation is recommended if threatening weather occurs, or if there is any doubt concerning the safe use of this product.

3. Proper safety equipment should be used at all times to insure a safe installation and take down. We suggest a careful evaluation be made to determine safety equipment needed, such as hard hats, steel-toe shoes, safety glasses and other as required.

4. Anchor stands behind its products in accordance with its standard Terms and Conditions of sale. A copy of our Terms and Conditions of Sale can be obtained by contacting Anchor at the telephone number and/or address on this document.