



User's Instruction Manual

Dome Series

01 AUGUST 2012

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Engineered to move with you.

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Disclaimer

Warranty

Caution and care must be taken when deploying and striking the Base-X Shelter. Failure to follow proper procedures may result in damage to the shelter voiding the warranty or causing personal injury.

Anchoring

Shelters must always be properly anchored with the Stake Kits provided and wind lines should be used during windy conditions. Because weather conditions can change quickly without warning, shelters should be anchored during any deployment regardless of duration. Details for anchoring follow in the manual.

Personnel

The proper number of personnel should be used when striking, deploying, and moving the shelter at all times.

Hazards

When deploying shelters pay close attention to surrounding hazards, such as overhead power lines, buried power lines, tree limbs, etc.

Warnings

All points on the shelter that may cause injury are clearly marked with CAUTION labels, most notable is the pinch point on the leg assemblies.

Questions contact 800.969.8527

Dome Series Shelters

Setup Instructions

The following is the recommended number of team members to setup:

Model 6D31 — 6

Model 8D36 — 8

1. Accountability

Open shelter bag(s) and inspect contents. Identify all components as follows:

A. Frame and Cover (figure 2-1)

Frame and cover are secured with three nylon straps.

B. Liner and liner bag (figures 2-2 & 2-3)

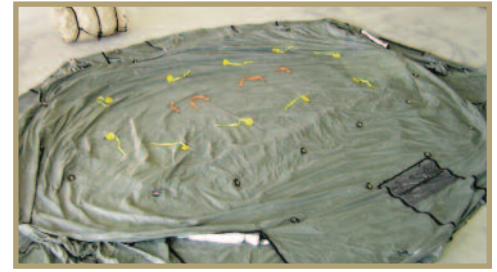
Liner bag should also contain stake kit, repair kit and wind line kit.



(figure 2-1)



(figure 2-2)



(figure 2-3)

- C. Stake Kit (figure 2-4): A detailed breakdown can be found in Section 7.
- D. Repair Kit (figure 2-5): A detailed breakdown can be found in Section 7.
- E. Wind-line Kit (figure 2-6): A detailed breakdown can be found in Section 7.



(figure 2-4)



(figure 2-5)



(figure 2-6)

2. Upright Frame and Outer Cover (3 to 4 people)

With shelter lying on the ground undo the straps holding the cover (figures 2-7 & 2-8). Open the bag and roll out the shelter. Upright the shelter (figure 2-9) and orient it in the desired position. Remove compression straps and spread sidewall fabric away from the frame.



(figure 2-7)



(figure 2-8)



(figure 2-9)

3. Extend Legs (Partial) (6 to 8 people)

Identify leg assemblies, push back on the top of the leg assembly, grip at the bottom in the area indicated by the "Grip here to expand frame" label and pull legs out partially.

NOTE: Check to make sure that there are no cables hung up on hub lock assemblies or fabric sections impeding the frame. Stop if resistance is encountered, investigate and correct the problem.

4. Extend Shelter (6 to 8 people)

Once the legs have been partially extended (figure 2-10), simultaneously lift and pull straight out (figures 2-11 & 2-12). You will need to move outward as the tent expands. **DO NOT USE EXCESSIVE FORCE.** It may take several attempts to fully extend the frame.

If the leg assembly locks, STOP! Unlock the leg assembly and then continue with the frame expansion.



(figure 2-10)



(figure 2-11)



(figure 2-12)

NOTE: Fabric Care: the best way to prolong the life of the fabric is to ensure that all sidewall & end panel sections of fabric are protected from the metal footings located at the base of the leg assembly. This attention should apply to all phases of setup & take-down (striking).

5. Lift Cover Material

Lift and place the side and end fabric sections on the top of the shelter to allow access to the perimeter hubs (Yellow Colored)(figures 2-13 through 2-15).



(figure 2-13)



(figure 2-14)



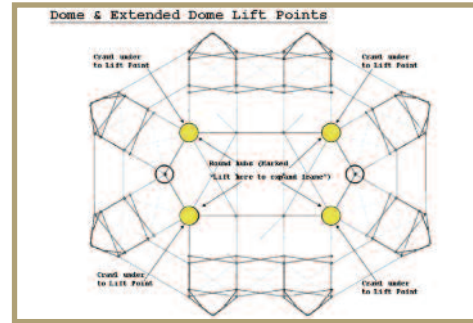
(figure 2-15)

6. Lock Hubs

Have four people go underneath the shelter one person at each corner door (figure 2-16, 2-17).



(figure 2-16)

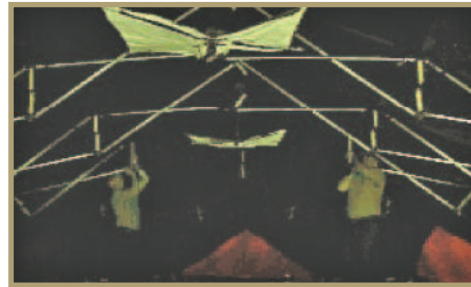


(figure 2-17)

Lift from the area marked "Grip here to expand shelter." Raising the bottom half of the hub lock from the ground and connecting to the top half (figure 2-18, 2-19).



(figure 2-18)



(figure 2-19)

Once these points have been engaged, the perimeter hubs can be locked by persons on the outside (figure 2-20 through 2-22).



(figure 2-20)



(figure 2-21)



(figure 2-22)

Persons on the inside will continue to lock the remaining hubs underneath the shelter (figure 2-23).



(figure 2-23)

When locking hubs place palm of your hand on the bottom of the hub, pushing up on the hub depress the bottom button and engage the top and bottom sections together (figures 2-24 through 2-26).



(figure 2-24)



(figure 2-25)



(figure 2-26)

NOTE: BEFORE CONTINUING, ENSURE ALL HUBS HAVE BEEN LOCKED.

7. Install Liner

Lift the shelter slightly off the ground so the liner may be passed in (figures 2-27 & 2-28). Do not lift too high. If the leg assemblies engage, disengage them immediately. Unroll the liner underneath frame. Unfold liner and align orange nylon straps (figure 2-29) on liner with orange nylon straps on frame.



(figure 2-27)



(figure 2-28)



(figure 2-29)

Wrap each strap around the yellow hub and snap the connector together (figure 2-30).



(figure 2-30)

Working your way out, hook the liner clip and then the yellow nylon strap (figures 2-31 & 2-32) in the same fashion as the orange. The yellow straps are a secondary method of securing the liner so they do not need to be extremely tight.



(figure 2-31)



(figure 2-32)

Continue securing liner clips to the hubs until all but the clips on the ground are secured (figures 2-33 & 2-34). Once the liner is in, the inside crew moves to one side to assist the outside crew in the lifting of the shelter.



(figure 2-33)



(figure 2-34)

NOTE: Fasten liner clips, open-end outboard of the peak. This will aid in easier takedown. Remaining clips will be attached once the shelter is lifted.

6D31: Attention must be paid when connecting the yellow straps as they **MUST connect to the hub with the yellow marking or the doors will not align.** There are three yellow and three black straps.

8. Lift One Side (6 to 8 people)

With a person between each leg assembly on one side of the shelter, grasp the frame between the top of the leg assembly. Simultaneously, lift until the legs lock into the extended position (figures 2-35 through 2-37). If legs do not lock into place, try lifting the frame higher and/or moving the leg assembly side-to-side.

NOTE: THE INSIDE CREW SHOULD BE IN PLACE TO ASSIST PRIOR TO LIFTING.



(figure 2-35)



(figure 2-36)



(figure 2-37)

Ensure button has engaged by conducting a visual or physical inspection under the hook & loop fastener (figures 2-38 & 2-39).

Stake legs down on this side if windy conditions exist.

6D31: Lift only three legs.



(figure 2-38)



(figure 2-39)

9. Raise Other Side of Shelter (4 to 8 people)

Grip the frame in-between the top of each leg assembly and raise the other side of the shelter until legs lock into place. This is made easier by using teams of two per leg assembly (figures 2-40 through 2-42).



(figure 2-40)



(figure 2-41)



(figure 2-42)

INSERT REMAINING LINER CLIPS INTO REMAINING HUBS.

10. Organize Liner

Arrange and organize liner and outer cover fabric. Identify stake loops located on the outside of the liner. Adjust the liner floor to remove excess fabric pockets to create a safe, smooth floor over the terrain. Use 12" aluminum stakes to secure liner and outer fabric (figures 2-43 & 2-44).

NOTE: ONE STAKE IS USED TO SECURE BOTH OUTER AND LINER STAKE LOOPS.



(figure 2-43)



(figure 2-44)



(figure 2-45)

11. Stake Down Shelter

Anchor the frame by using the large 24" steel stakes (figure 2-45). Stake liner and outer cover using the 12" aluminum stakes (figure 2-44).

Note: If high winds are present, anchor frame on one side of shelter immediately after it is raised (Step 8) to properly secure one-half of the shelter to the terrain. Please execute good judgment and caution when erecting the shelter(s) in high winds to prevent injury to personnel and damage to the shelter. Drive stakes in line with legs to avoid possible wear or puncture of outer cover. Wind-lines can be attached to the spring-link at the top of each leg assembly and anchored to the ground for additional security.

Notice: Proper set-up of this Base-X Tent System requires the use and application of stakes at each leg.

12. Hang Lights

Once the liner has been installed, identify the hang points (eye hooks). Connect these light clips into the hang points located overhead. Plug lights into any electrical outlet. The lights may also be plugged into each other in series.

13. Connect ECU Ducts

If an ECU is present, connect the return duct into the opening for the return. Connect the inlet duct into the supply opening into the plenum. First, pull the sleeve from the liner through the outer cover. Use the strap(s) provided to secure ducts to the liner and outer cover. Slide duct back into the shelter. Arrange material so water will not puddle.

NOTE: On all Dome series shelters, the inlet duct is on top and the return duct is on the bottom. If the ECU has a thermostat it can be inserted through the duct if desired.

Dome Series Shelters

Take Down (STRIKING) & Packing Procedure

The following is the recommended number of team members to take down:

Model 6D31 — 6

Model 8D36 — 8

1. Rollup all outer doors

Roll up all the outer doors (figure 3-1). Let the liner doors down but **DO NOT** zip them, connect the hook and loop fastener at the bottom (figure 3-2). This allows air to escape when rolling liner.



(figure 3-1)



(figure 3-2)

2. Remove Lights and Disconnect Electric

Disconnect electrical wire from support trailer or power distribution box and unplug lights from wire harness. Place lights back into case.

DO NOT REMOVE WIRING HARNESS FROM SLEEVES.

3. Remove Stakes

Remove the 12 inch aluminum stakes from liner and outer cover stake loops (figures 3-3). Remove the 24 inch steel stakes from the leg brackets (figures 3-4 & 3-5). Place all stakes back in the stake kit bag.



(figure 3-3)

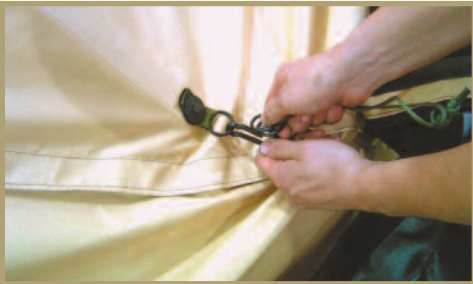


(figure 3-4)



(figure 3-5)

Connect the stake loops on the outer cover to the spring links on the eave of the shelter (figures 3-6 through 3-8) and fold fabric neatly to aid in strapping.



(figure 3-6)



(figure 3-7)



(figure 3-8)

4. Disconnect Liner

Disconnect the liner from the hubs along the eave of the shelter (figures 3-9 through 3-11). Push the fabric and floor toward the center of the shelter away from the side. This is done so that the frame will not be lowered down on the liner and cause damage to the fabric.



(figure 3-9)



(figure 3-10)



(figure 3-11)

5. Lower one side (6 to 8 people)

Lower one side of the shelter by positioning a person at each leg assembly. Grip the frame on the scissor above the leg assembly and lift. This will relieve the pressure from the leg assembly and allow the button to disengage with ease. Have another person push in on the buttons that are located mid-way up the legs beneath the black hook and loop fastener. This will allow the legs to swing out. Once the four legs on one side of the tent are swung out, simultaneously lower the shelter to the ground (figures 3-12



(figure 3-12)



(figure 3-13)



(figure 3-14)

NOTE: Ensure no one is under the shelter during this procedure. Be sure all leg buttons on this side are released, if not damage to the leg will occur.

CAUTION: DO NOT HOLD FRAME AT THE YELLOW WARNING LABEL. THIS IS A POTENTIAL PINCH POINT!

6D31: Lower only three legs at this time.

8D36: Lower four legs at this time.

6. Lower Other side (6 to 8 people)

Lower remaining side of shelter (as described in step 5). Have 4 people stay under to disconnect liner.



(figure 3-15)



(figure 3-16)



(figure 3-17)

7. Finish Disconnecting Liner (4 people)

The four people underneath the shelter will disconnect the liner clips and the nylon safety straps (figures 3-18 through 3-20).



(figure 3-18)



(figure 3-19)



(figure 3-20)

Once this is done, force the air out of the liner (figures 3-21 & 3-22), drag the liner out from under the tent by lifting the tent at the door (figures 3-23 through 3-26). Ensure close attention is given to the edges of the liner in that they do not get caught and torn on the frame of the tent. Be sure leg button does not engage while slightly lifting the frame.



(figure 3-21)



(figure 3-22)



(figure 3-23)



(figure 3-24)



(figure 3-25)

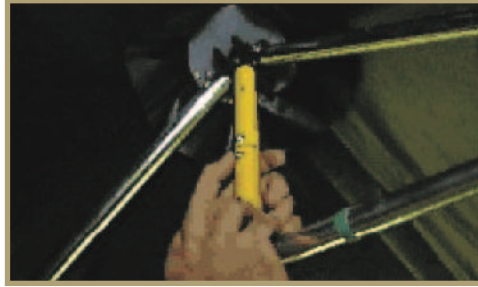


(figure 3-26)

NOTE: Air can be forced out easily by folding the liner over on itself (figures 3-21 & 3-22).

8. Unlock Hubs

After the liner has been removed, the persons under the shelter can begin to unlock hub assemblies underneath the shelter. **DO NOT UNLOCK CORNER HUBS UNTIL ALL OTHERS ARE DONE.** Start by unlocking the peak hubs (figure 3-27, 3-28).



(figure 3-27)



(figure 3-28)

To unlock hub assembly, place palm of hand on bottom of hub, push up, and depress bottom button (figures 3-29, 3-30).



(figure 3-29)

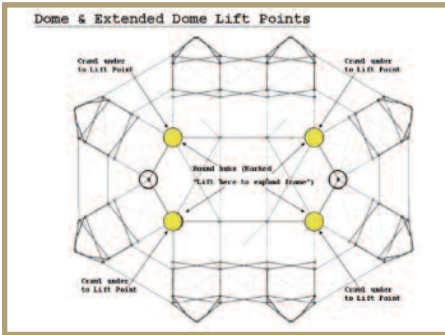


(figure 3-30)

The persons on the outside can begin to unlock the perimeter hubs.

9. Unlock Corner Hubs

The corner hubs (figure 3-31) marked in yellow must be the last to be unlocked. These should be unlocked at the same time. Once these are released, the shelter will begin to come to the ground (figure 3-32, 3-33). Persons underneath unlocking these hubs can exit out the corner doors after shelter starts to come down and have confirmed all hubs have been unlocked.



(figure 3-31)



(figure 3-32)



(figure 3-33)

NOTE: ENSURE ALL YELLOW HUBS ARE UNLOCKED AT THIS TIME.

10. Fold Frame (6 to 8 people)

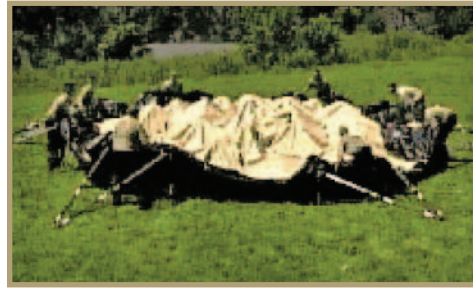
Position one person at each leg assembly, Grip the frame in-between leg assembly where marked "Grip here to fold frame" (figures 3-34 & 3-35). Lift simultaneously and move toward each other slightly. The frame will begin to fold. Continue folding frame until approximately 75% closed (figure3-36).

NOTE: ► STOP IF RESISTANCE IS ENCOUNTERED and investigate possible problems. ◀

Problems may be caused by remaining locked hub or fabric/cable hung up.



(figure3-34)



(figure3-35)



(figure3-36)

At this point STOP, disengage leg buttons, telescope leg back into original position (figure3-37). Ensure no fabric is caught in the telescoping portion of the leg assembly when folding. Pull sidewall fabric out (figure3-38) before closing frame completely. Close frame by pushing at the top of the leg assemblies (figure 3-39). Leg assembly should lay against frame with no fabric in-between.



(figure 3-37)



(figure 3-38)



(figure 3-39)

11. Prepare Bundle/Liner

Continue folding frame until completely folded. Gather sidewall fabric around frame and compress fabric with compression straps (figure 3-40), lay the frame over and continue to tighten compression straps (figure 3-41). Lift shelter and place bag over frame and outer cover and strap with side straps (figure 3-42).



(figure 3-40)



(figure 3-41)



(figure 3-42)

Lay frame over and finish strapping the bag (figures 3-43 through 3-45).



(figure 3-43)



(figure 3-44)



(figure 3-45)

Spread the liner out with the floor of the liner on the ground and adjust remaining sidewall/roof fabric to lay as uniformly as possible with the orange strap exposed (figures 3-46 & 3-47). Fold the sides of the liner into the middle (quarters) (figure 3-48).



(figure 3-46)



(figure 3-47)



(figure 3-48)

Then fold in half (figure 3-49) so when it is unrolled the orange nylon straps will be seen. Place one end of liner on liner bag and roll liner onto bag. Place stake and repair kit beside liner and fasten straps on bag (figures 3-50 through 3-54).



(figure 3-49)



(figure 3-50)



(figure 3-51)



(figure 3-52)



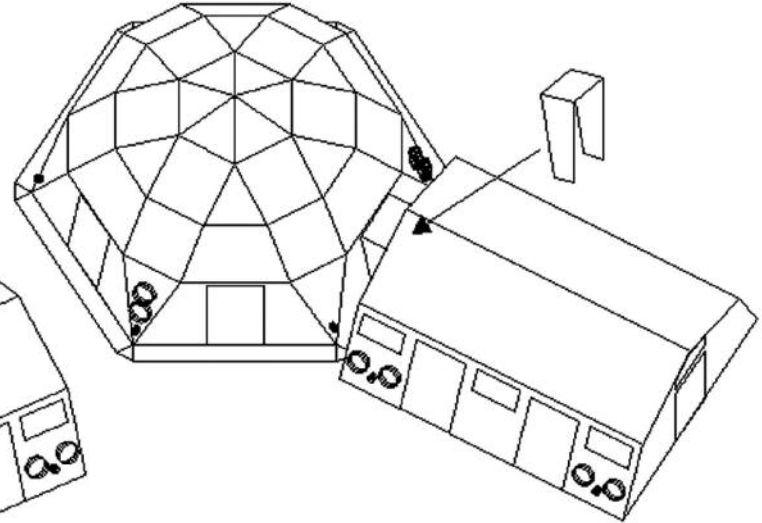
(figure 3-53)



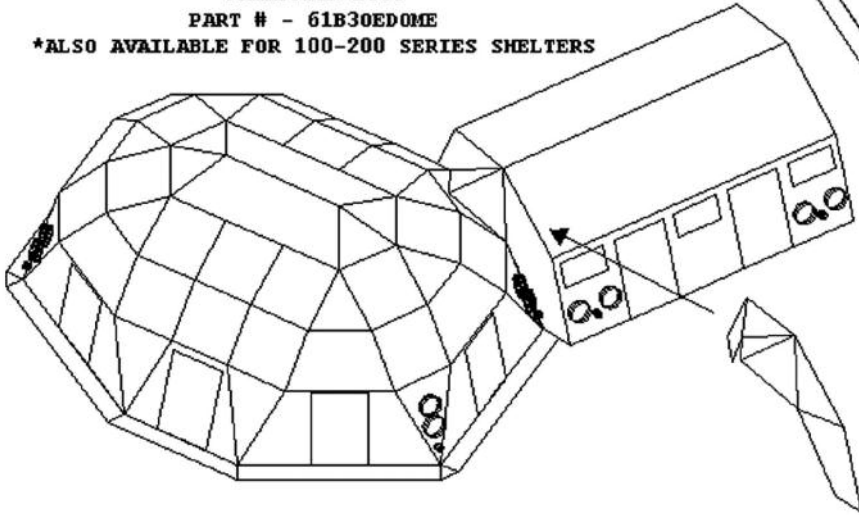
(figure 3-54)

Complexing

**END DOOR TO DOME DOOR CONNECTOR BOOT
PART # - 61B001DOME**



**300 SERIES OPEN END TO DOME OPEN END
CONNECTOR BOOT
PART # - 61B30EDOME
*ALSO AVAILABLE FOR 100-200 SERIES SHELTERS**



Maintenance and Repair

1. Outer Cover

A. Material

1. Maintenance — Wash with soap and water. Hard bristle brushes may be used, scratch pads are not recommended. For more persistent stains or dirty patches use cleaning supplies such as: Simple Green, Greased Lightning or like cleaners. These should be used IAW manufacturer's suggested usage listed on container. Note: If pressure sprayer is used, do not get too close to fabric with spray nozzle.
2. Repair. Repair can be done as a field expedient repair with the adhesive back vinyl.
Before proceeding make sure surface is dry.

GENERAL TEARS NOT ON AN EDGE

Cut: Patch may be cut to size with scissors. Trim corners round before removing liner. Overlap patches 1" on tears larger than patch. Extend patch 1" from edge of all tears.

Peel: Carefully peel back 1/2" of protective liner. Tearing the disposable back liner a little will aid in liner removal when the patch has been cut into smaller pieces.

Stick: Position and anchor exposed 1/2" edge. Slowly remove liner on patch taking care to remove air pockets and seal edges. Rub entire patch aggressively.

TEARS ON AN OUTSIDE EDGE

Follow Step 1 through Step 5 with the following change! Position the patch leaving a one inch tab extended beyond the outside edge of the material and tear to be fixed.

Apply the edge reinforcement line along the edge of the material by sticking it to the patch. The reinforcement line should be perpendicular to the open end of the tear creating a tough solid edge

Fold the 1" tab over the reinforcement line and adhere to the other side of the material. Rub entire patch aggressively and trim excess line. Apply another patch to the backside of the tear

B. Screens

1. Maintenance — Wash with soap and water. SOFT bristle brush may be used, scratch pads are not recommended. For more persistent stains or dirty patches use cleaning supplies such as: Simple Green, Greased Lightning or similar type cleaners. These should be used IAW manufacture suggested usage listed on container.

Note: If a pressure sprayer is used do not get too close to fabric with spray nozzle.

C. Velcro

1. Maintenance — Wash with soap and water. Hard bristle brush may be used, scratch pads are not recommended. If grass or weeds are caught in the Velcro use a stiff DRY brush to comb the debris out or if time allows picking it out by hand may be more effective.
2. Repair —See Replacement Procedures.

D. Air Supply Ducts

1. Maintenance — Wash with soap and water. Hard bristle brush may be used, scratch pads are not recommended. For more persistent stains or dirty patches use cleaning supplies such as Simple Green, Greased Lightning or like cleaners. These should be used IAW manufacture suggested usage listed on container. Note: If pressure sprayer is used do not get too close to fabric with spray nozzle.
2. Repair — Repair can be done as a field expedient repair with the adhesive back vinyl. Before proceeding make sure surface is dry.

E. Zippers

1. Maintenance — Wash with soap and water. Hard bristle brush may be used, scratch pads are not recommended. Also, dry brushing to remove caked on dirt may be necessary for proper operation. Visually inspect the zipper and slider. If the slider is showing signs of spreading, squeeze the sides together being careful not over tighten and cause the zipper to function improperly or in a difficult manner.
2. Repair — If the slider comes off, make a cut across the top of the zipper ONLY about 1½ to 2 inches down from the top (depending on the size of the zipper). Slide the slider up to the top of the zipper, put the other side of the zipper in the end of the zipper and slide the slider down until the teeth of the zipper go together. The more lined up you can get the ends of the zipper, the better it will work at the bottom. The repair is now complete.

2. Frame

A. Leg Assemblies

1. Maintenance — Wash with soap and water. Hard bristle brush may be used, scratch pads are not recommended. If leg assembly does not lower under its own weight while setting up the tent lubrication of the telescoping leg may be required.
 - a. The Leg Assembly can be removed from the frame by removing the split-ring and clevis pins at the top of the assembly and at the bottom of the Leg Arm Strut. Remove the telescoping portion of the leg by depressing the button and sliding it out of the lower leg. Wipe down this portion of the leg with a dry cloth. Attach a small portion of a cloth to a wire or wooden handle, turn the lower leg assembly upside down (if possible) and swab the lower portion of the leg assembly. The objective is to remove any dirt or debris from the assembly. A very light coat of lubricant can be applied to the telescoping portion of the leg assembly. Another option is removing the plug from the bottom of the leg assembly. This would require the removal of a cotter pin before removing the clevis pin and cap.
2. Repair. Repair parts for the leg assembly are not included in the kit because a complete assembly is included. Sub-assembly parts can be ordered by calling 1-800-969-8527.

B. Frame*

Inspect split rings, scissors, hubs and cables. Replace as needed.

Note: Parts are serviceable as long as functionality is not affected. Some small surface cracks and worn powder-coating may be noted but replacement of the part is not necessary at this time.

3. Liner — See Outer Cover, section 1.

4. Stake Kit

A. Bag. See Outer Cover, section 1.

B. Stake Assembly.

1. Maintenance. Scrub with hard bristle brush or scratch pads. A light coat of lubrication will help keep the stake from rusting.

5. Repair Kit

A. Accountability. See enclosure 1 of this manual.

B. Ordering Replacement Parts. See section 7 of this manual. Visit www.hdtglobal.com and click on the sales link to submit your request or call 1-800-969-8527.

Parts Replacement

1. **Outer Cover.** Before replacing the outer cover, all attempts should be made to repair it. If the damage is too extensive for the unit to repair, contact the company directly at **1-800-969-8527** and speak to a representative about repair by the manufacturer or to seek expert advice.

If replacement by the unit is decided to be the most feasible option, the new cover will come with bolt holes already in it and new hardware for mounting the cover. After removing the old cover, lay the new cover across the frame to the peak of the shelter, starting at one side, bolt the cover to the frame. Only the two outer rows of bolts should have the wind-line attachments. If the rivet nut (zinc coated) at the top of the hub/lock assembly starts to turn, a small pair of needle-nose vise-grips or pliers can be used to hold it while the bolt is tightened.

The proper orders for the bolt assemblies are:

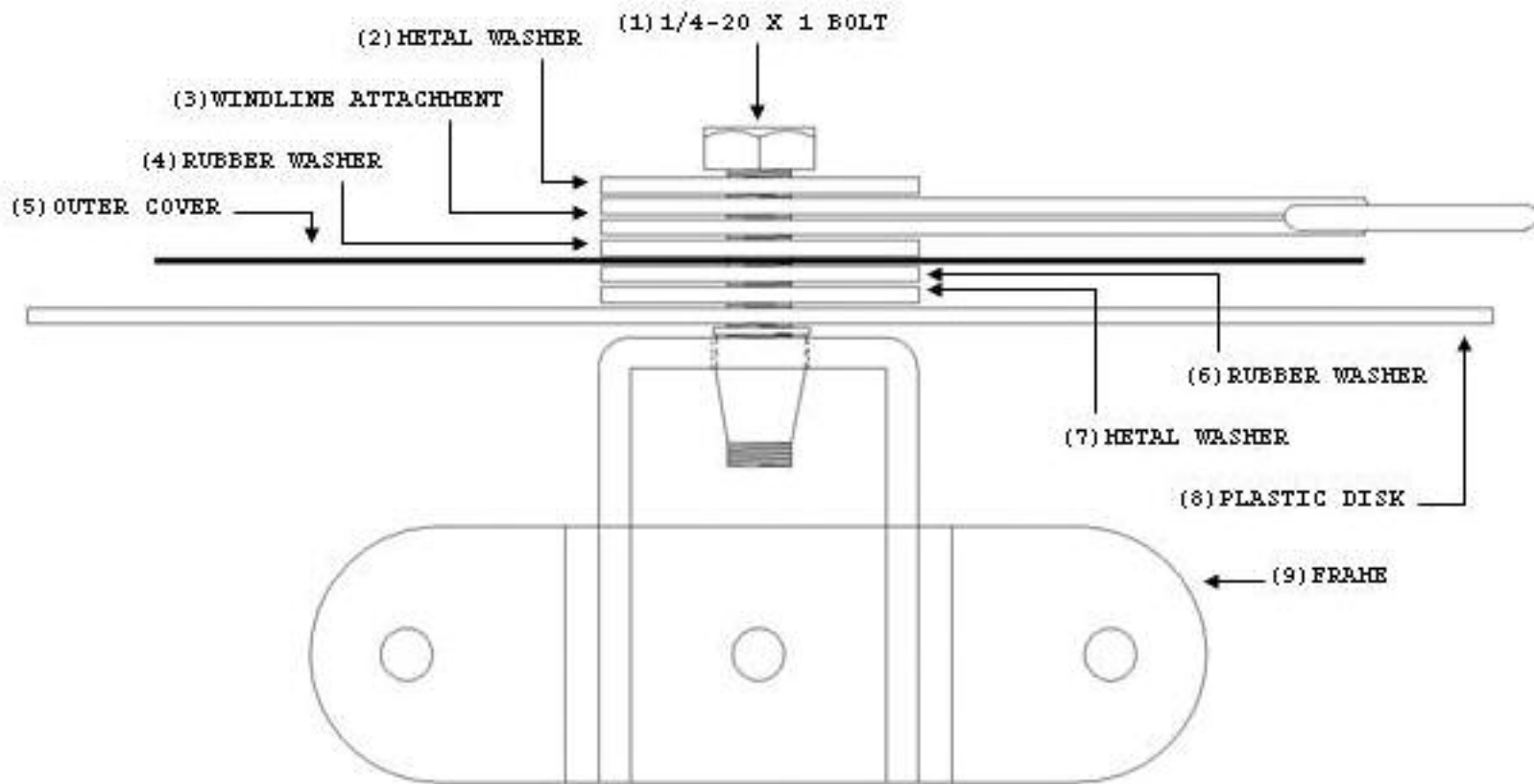
a. With Wind-line attachment

Head of ¼ - 20 X 1" bolt
Metal Washer
Wind-line attachment
Rubber Washer
Outer Cover
Rubber Washer
Metal Washer
Plastic Disk
Frame

b. Without Wind-line attachment

Head of ¼ - 20 X 1" bolt
Metal Washer
Rubber Washer
Outer Cover
Rubber Washer
Metal Washer
Plastic Disk
Frame

Note: For proper bolt assembly remove the Wind-line attachment and follow the placement order.



Note: 7/16" wrench and split ring pliers in repair kit.

- A. Screens. Before replacing the screen, all attempts should be made to repair it, see maintenance and repair procedures. If the damage is too extensive for the unit to repair, contact the company directly and speak to a representative about repair by the manufacturer or to seek expert advice.
- B. Clear Window Vinyl. The clear vinyl window cover is easily removed and replaced. It has hook and loop fastener on all four sides and pulls out easily. The replacement cover fits into position easily.
- C. Inner Window Cover. Before replacing the Inner window cover, all attempts should be made to repair it, see maintenance and repair procedures. If the damage is too extensive for the unit to repair, contact the company and speak to a representative about repair by the manufacturer or to seek expert advice.
- D. Velcro. Before replacing the Velcro at the unit level contact the company and speak to a representative about repair by the manufacturer or to seek expert advice.
- E. Air Supply Ducts. See outer Cover Material.
- F. Zippers. Before replacing the Zipper all attempts should be made to repair it, see maintenance and repair procedures. If the damage is too extensive for the unit to repair, contact the company and speak to a representative about repair by the manufacturer or to seek expert advice.

2. Frame

Note: 7/16" wrench and split ring pliers in repair kit.

- A. Leg Assemblies. Remove the split ring and clevis pins from the bottom and then the top of the leg assembly. Paying particular attention to the direction the clevis pin was removed. Additionally, there will be a spacer and split-ring per attachment point, put these somewhere they will not get lost. Attach the new leg assembly in the reverse order it was removed. If one or more of the parts are defective in any way, replace it with a new part located in the repair kit. If assistance is needed in re-assembly, look at another leg assembly and duplicate the installation.
- B. Telescoping Leg Assembly. Detach the upper portion of the telescoping leg assembly from the frame. Press in on the locking button and slide the telescoping assembly out. Insert the new telescoping portion into the lower leg ensuring the button is aligned to protrude through the hole in the lower leg. Attach the top of the telescoping leg to the frame with the clevis pin and split ring, ensuring there are no extra parts.
- C. Leg Arm Strut. Remove the split ring from the clevis pin and remove the clevis pin from the lower attachment point. Remove the cotter pin from the clevis pin and slide the clevis pin out of the upper attachment point. Paying particular attention to the direction the clevis pin was removed. Attach the new Leg Arm Strut in the reverse order it was removed. If one or more of the parts are defective in any way replace it with a new part located in the repair kit. If assistance is needed in re-assembly, look at another leg assembly and duplicate the installation. If one or more of the parts are defective in any way, replace it with a new part located in the repair kit. If assistance is needed in re-assembly; look at another leg assembly and duplicate the installation.

- D. Cables. Cables are located throughout the framework of the shelter. When replacing them, it is imperative you install the correct cable in the correct location. Cable bags in the repair kit are marked, as well as individual cables. They are listed by nomenclature and part number breakdown enclosure of this manual.
- E. Scissors. When replacing scissors it is important to the function of the frame that the proper part be replaced. Scissors are marked for identification as follows:

Part	Color	Marking	Page
180° Scissor Assembly (2 pieces connected in the center by a Silver-headed clevis pin)	Black	No label	8-8
45° Floating Scissor Strut	Silver	No Labels	8-13
49" Floating Scissor Strut	Silver	Green Labels	8-13

The label on the scissor will identify the long ends. These parts are installed at the top or roof. The 180° scissor has no labels and both lengths are the same.

When performing repairs to scissors on the outer portion of the frame it will be best to do with the frame partially folded. This allows the best access to the part. If the replacement is to a scissor on the inside of the frame, then working with one side raised will best allow access to the part. If working in this location be sure that the eave row of hubs is locked before raising one side. If there are several parts to be replaced, it may be helpful to remove the outer cover. This can be done by removing the 7/16" bolt that secures the fabric. Be sure to keep all parts. They will be needed for reassembly.

Once the best position has been determined, unlock the hub assemblies to which the damaged scissor is connected. This will relieve the tension on the parts. Then remove the split rings and clevis pins and remove the damaged piece. If cables are attached they will need to be reinstalled properly to the new scissor. Align holes in the scissor with the holes in the hub and reinstall pins and split rings.

If working on the outer scissor, begin with the frame folded. Start by installing the bottom portion of the tube. This will allow the work area to be at eye level when finishing. If working under the shelter, begin with one side raised. Install the top parts first and finish at the bottom. Again, this will allow the work area to be at eye level when finishing. Be sure cables have been installed correctly.

- F. Hub/Lock Assemblies. When performing repairs to hub on the outer portion of the frame, it will be best to do with the frame partially folded. This allows the best access to the part. If the replacement is to a hub on the inside of the frame, working with one side raised, will allow best access to the part. If working in this location, be sure that the eave row of hubs is locked before raising one side. If replacing the top portion of the hub, then remove the 7/16" bolt that holds the fabric to the hub. Keep all parts. They will be needed for reassembly.

When replacing the hub/lock assembly it is **NOT** necessary to replace both halves if one is still serviceable. Remove the split ring from the clevis pin and remove the clevis pin from the hub assembly, disconnecting any scissor assemblies. Insert the new hub portion and reattach the scissor assemblies. Pay particular attention to the direction the button is facing to ensure it lines up with the hole in the other half. Reattach the cables to the clevis pins. Reattach the Scissor Assembly in the reverse order they were removed. Unlocking the hubs at each end and in the general area of the assembly will aid in getting the new assembly installed. If assistance is needed in reassembly; look at another assembly and duplicate the installation, make sure the assembly you are copying is the same type.

NSN's and Kit Component Listings

Complete Shelters

Description	P/N	NSN
Shelter Model 6D31	606D31OD	8340-01-533-1688
Shelter Model 6D31	606D31TN	8340-01-533-1689
Shelter Model 8D36	608D36OD	8340-01-533-1667
Shelter Model 8D36	608D36TN	8340-01-533-1669

Complete Kits

Description	P/N	NSN
Wind-Line Kit (long)	69007-1	
Repair Kit 6D31 Series	69010-6D31	
Repair Kit 8D36 Series	69010-8D36	8340-01-533-1726
Stake Kit 6D31 Series	690006-1BK	
Stake Kit 8D36 Series	690018BK	

Stake, Repair and Wind-Line Kits

Stake Kit (per tent)

Description	P/N	Quantity	
		6D31	8D36
Stake Bag	65902	1	1
Mallet	69MALLET-3	1	1
Tent Stake, 12" Aluminum, OD	69ST001	32	40
Stake, Tent, Double Head	69ST010	6	8

Repair Kit (per tent)

Description	P/N	Quantity	
		6D31	8D36
Hub Lock Assembly	65001	1	1
180° Scissor Assembly	65061A	3	3
Repair Kit Bag	65901	1	1
Leg Assembly	65300100	1	1
49" Floating Scissor Strut	61049FLOAT	0	2
45° Floating Scissor Strut	61051FLOAT	6	6
Hub, Dome Series	65001D	1	1
Wind line Attachment Assembly	65WLA-1	1	1
45° Scissor Cable	69CA045	2	2
45° Scissor Cable Keep	69CA045-1	1	1
180° Scissor Cable	69CA180	2	2
180° Scissor Cable Keep	69CA180-1	1	1
Cable, Center Dome 6D31, 3/32 dia.	69CADOME-1	1	1
45° Diagonal Cable	69CAD045	2	2

180° Diagonal Cable	69CAD180	2	2
Clevis Pin 3/16" x 1 1/2"	69CP3010	5	5
Clevis Pin 3/16" x 1 3/4"	69CP3020	2	2
Plastic Dish	69DP01	2	2
Snap Button, Single Button	69INC004	1	1
Liner Clip Assembly	69LCA	1	1
Split Ring	69SR040	10	10
Cotter Pin	69SR041	7	7
Rubber Washer	69WR006	3	3
Bolt 1/4-20 x 3/4" Long	HHHC04BLK	1	1
Bolt 1/4-20 x 1" Long	HHHC06BLK	3	3
Washer 1 1/4"	HRWBLK	6	6
Adhesive Back Fabric - Outer Green	FV44103ADHFG	1	1
Adhesive Back Fabric - Outer Tan	FV44103ADHTN	1	1
Adhesive Back Fabric - Liner	FV4423ADH	1	1
O-Ring	69OR001	5	5
Split Ring pliers	48-SPLTRNG-01	1	1
7/16 Wrench	48BW716-01	1	1

ILLUSTRATED PARTS BREAKDOWN

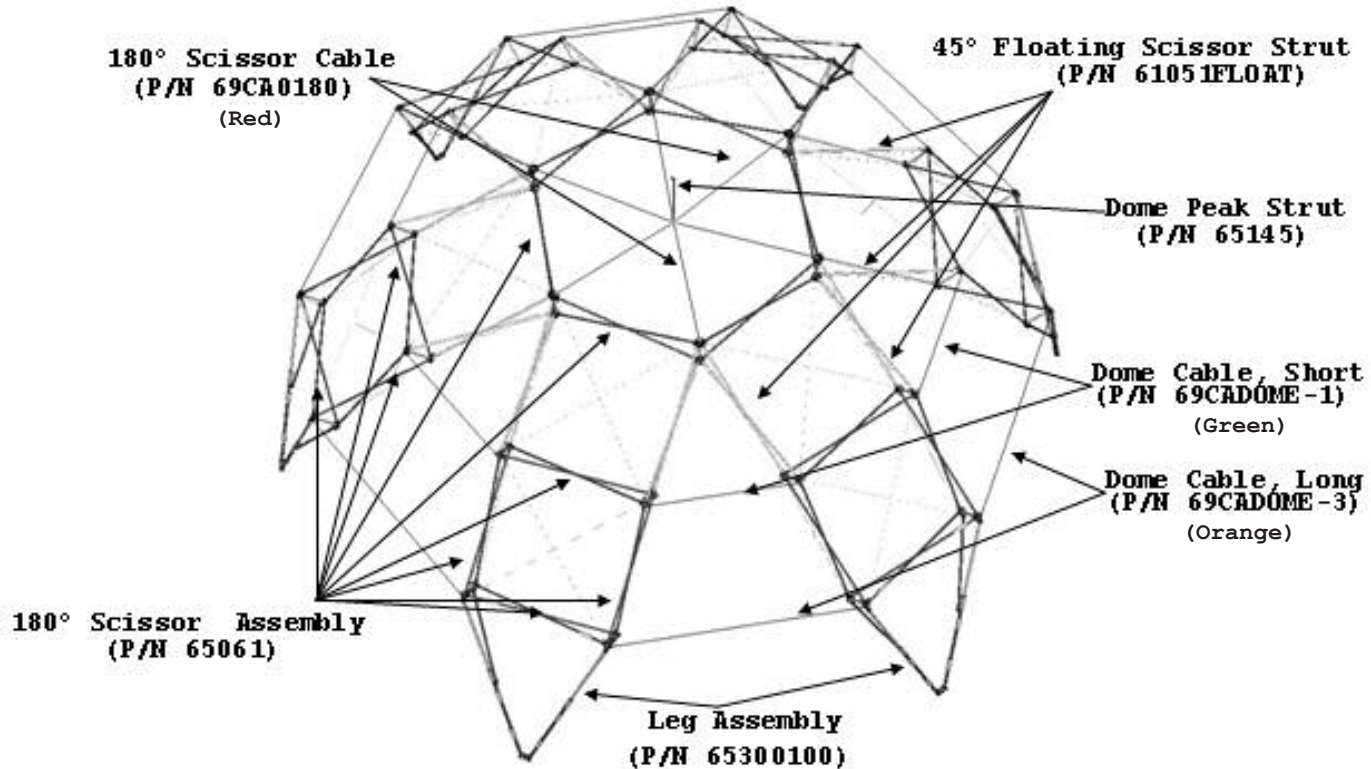
Summary of System Components

Frames, Outer Cover & Liner

<u>Section</u>	<u>Page</u>
8 6D31 Dome Frame Assembly.....	8-2
8 8D36 Extended Dome Frame Assembly (End View).....	8-3
8 6D31 Dome & 8D36 Extended Dome Lift Points.....	8-4
8 8D36 Extended Dome Outer Cover.....	8-5
8 8D36 Extended Dome Liner.....	8-6

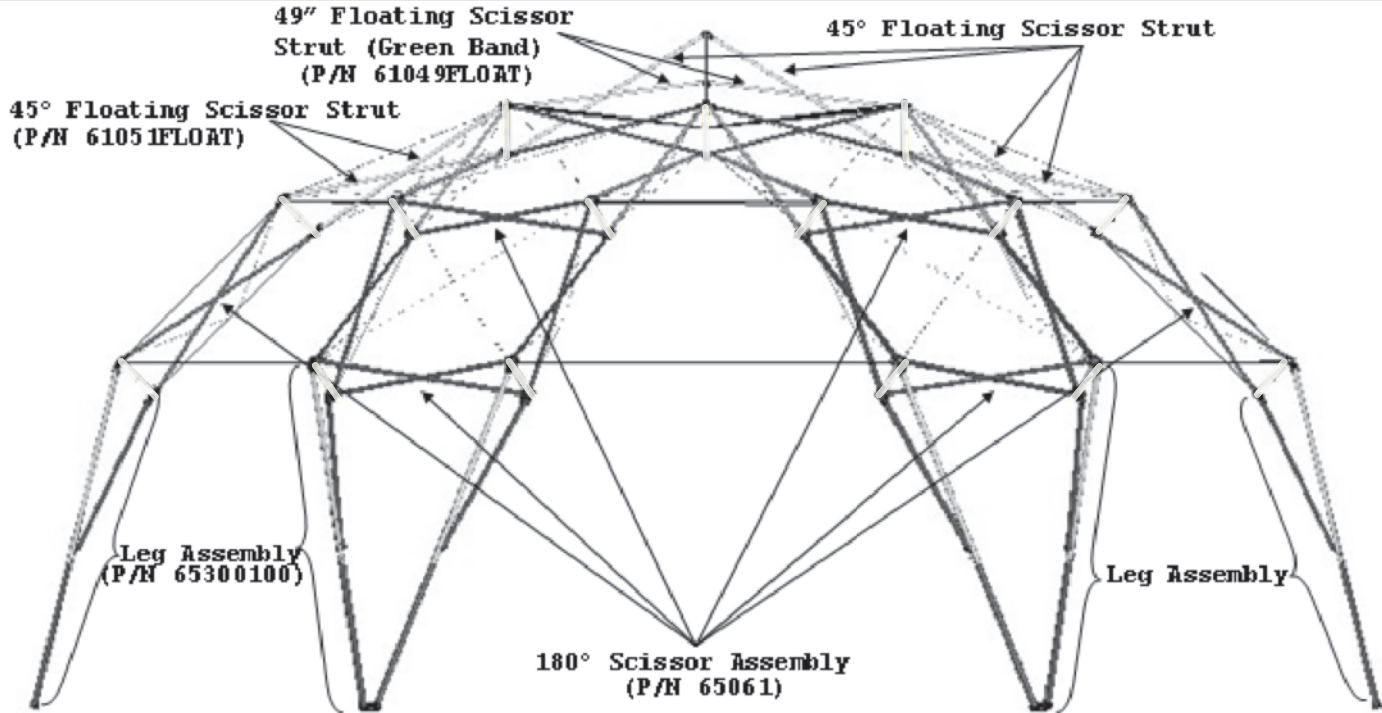
This manual should be used in conjunction with the video. If questions exist after review of the manual and viewing of the video please call 1-800-969-8527 for clarification.

6D31 Dome Frame Assembly



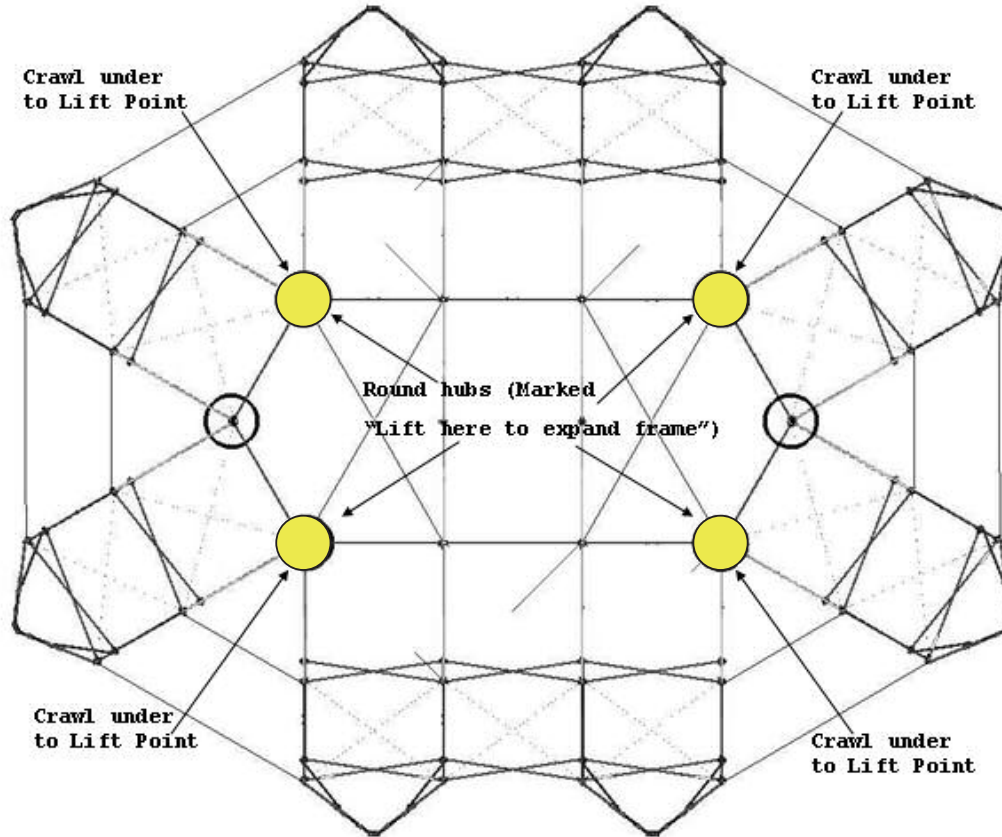
There are 24, 45° Floating Scissor Struts (silver in color). All Black scissors in the dome are 180° scissors Assemblies (30).

8D36 Extended Dome Frame Assembly (end view)

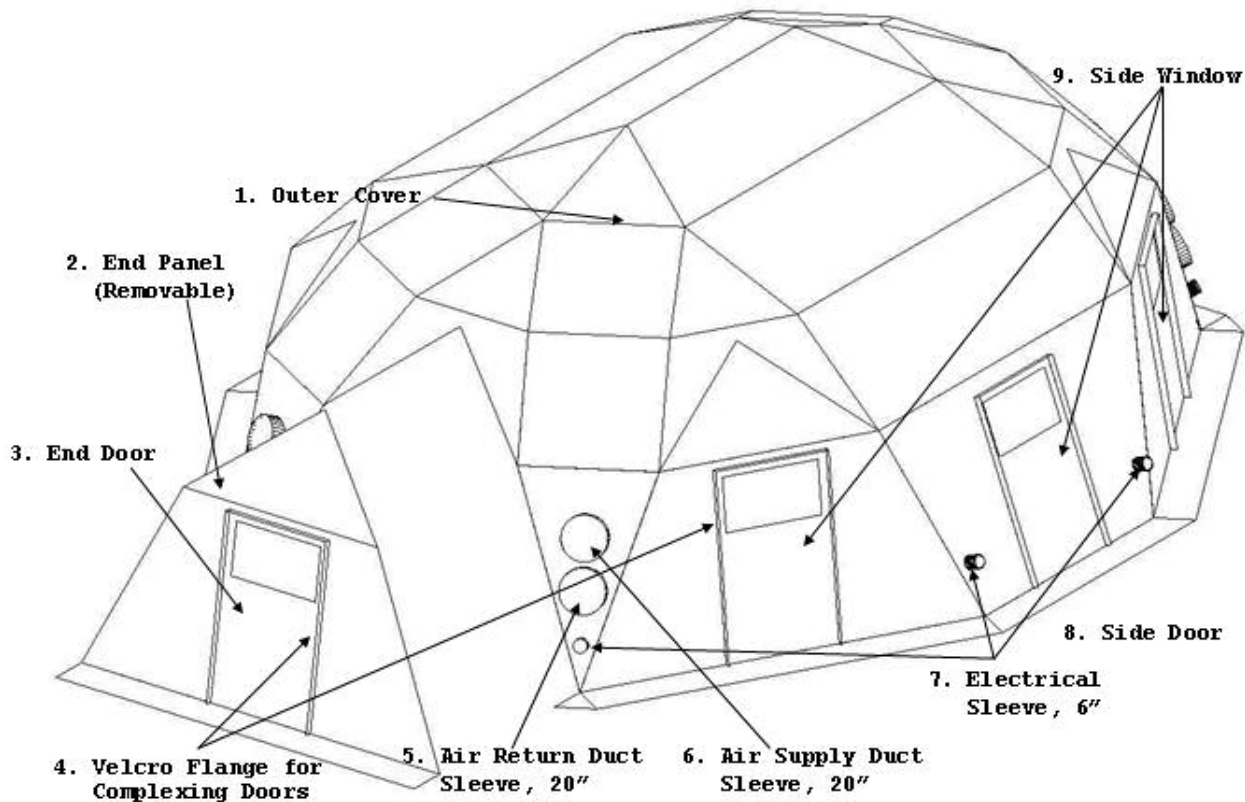


There are only 4, 49" Floating Scissor Struts. They run from the bottom of the 2 center hubs to the top of the corresponding first row of hubs. All other silver Scissors are 45° Floating Scissor Struts (34). All Black scissors in the extended dome are 180° scissors Assemblies (33).

6D31 Dome & 8D36 Extended Dome Lift Points

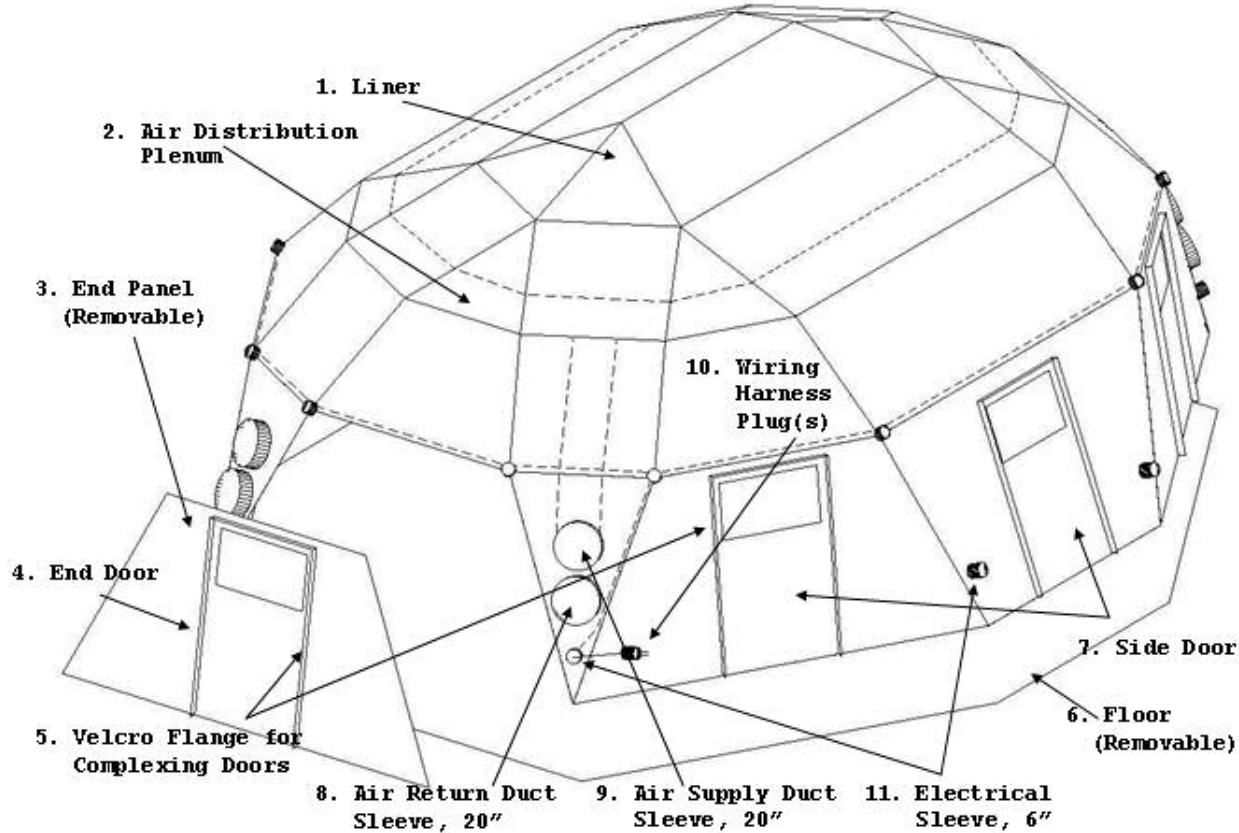


8D36 Extended Dome Outer Cover



The 6D31 model Dome has inlet and return ducts in three panels.

8D36 Extended Dome Liner



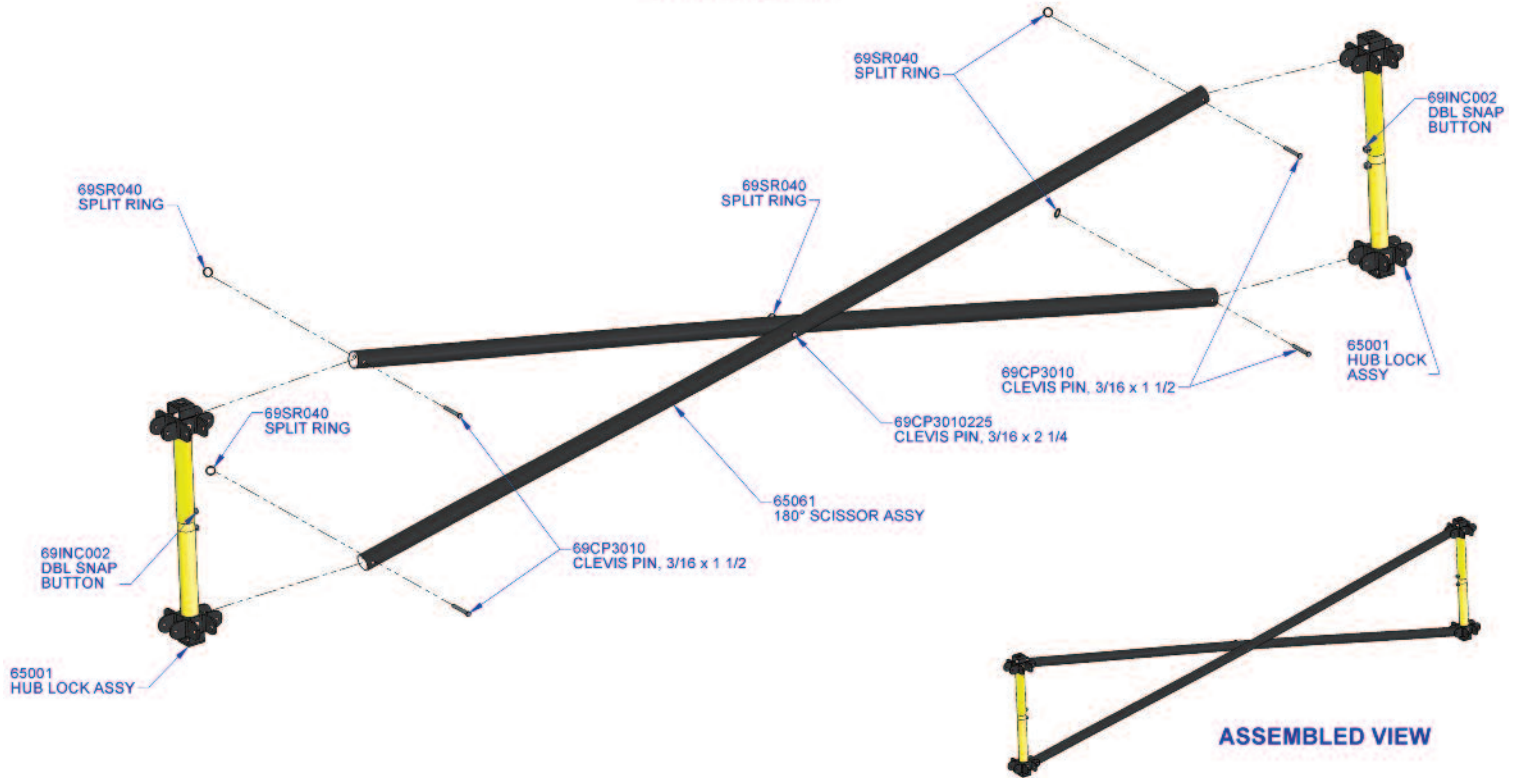
The 6D31 model Dome has inlet and return ducts in three panels.

Sub Assemblies

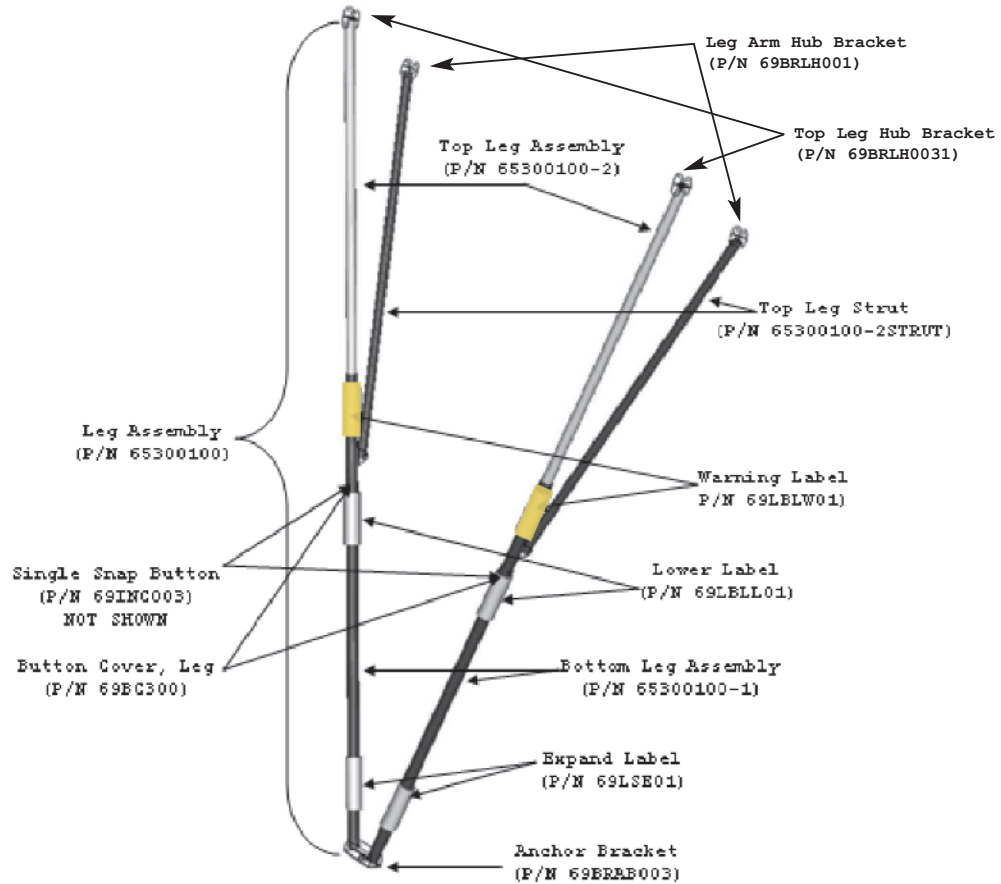
<u>Section</u>	<u>Page</u>
⑧ 180° Scissor Assembly	8-8
⑧ Leg Assembly	8-9
⑧ Peak Strut Assembly	8-10
⑧ Hub/Lock Assembly	8-11
⑧ Dome Series Hub/Lock Assembly	8-12
⑧ 45° Floating Scissor Strut Assembly (no center hole)	8-13
⑧ 49" Floating Scissor Strut Assembly (no center hole)	8-13

180° Scissor Assembly

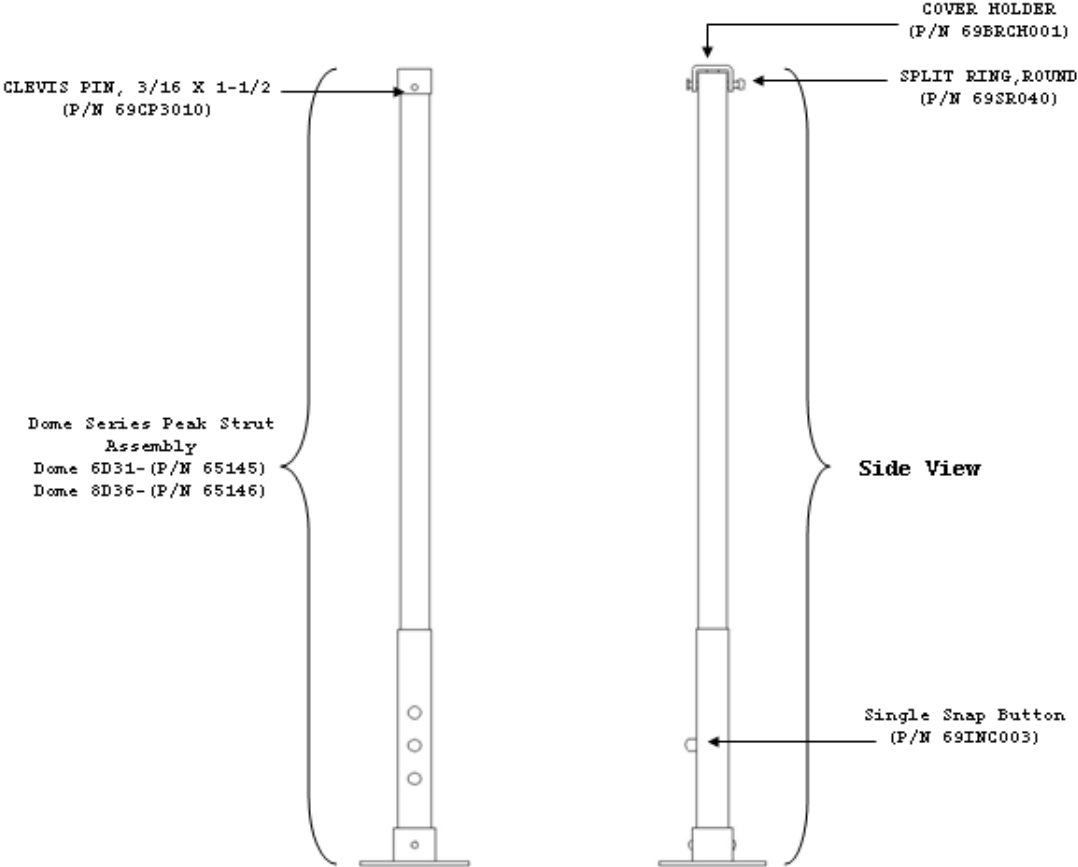
EXPLODED VIEW



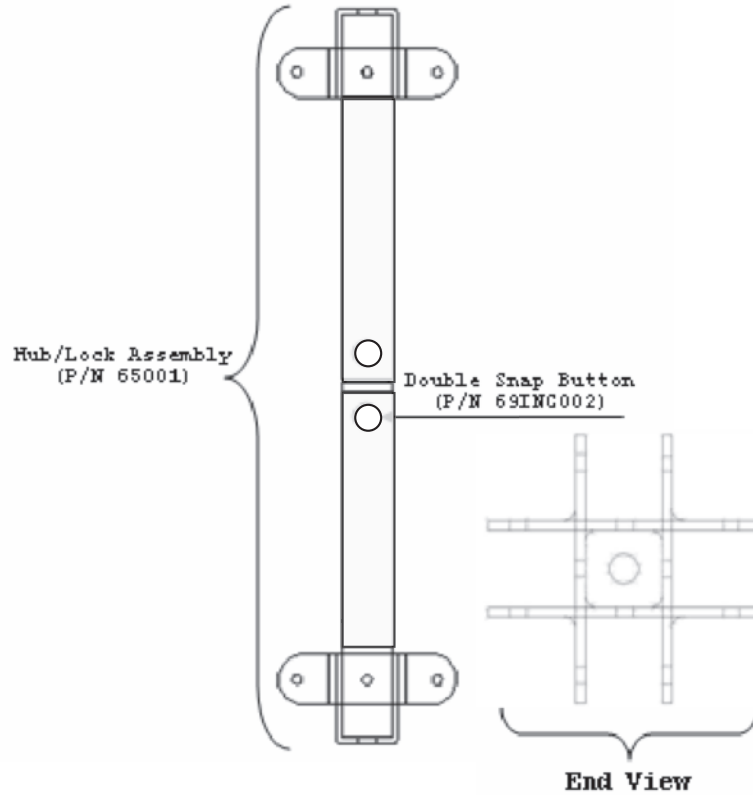
Leg Assembly



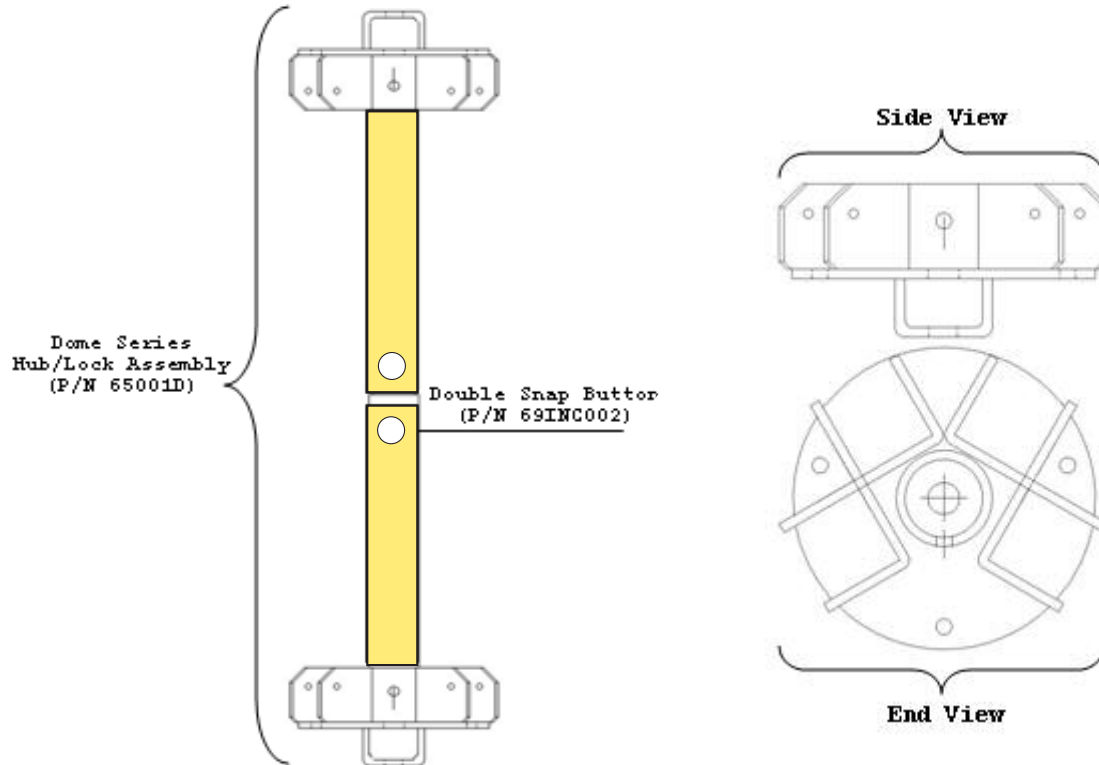
Dome Series Peak Strut Assembly



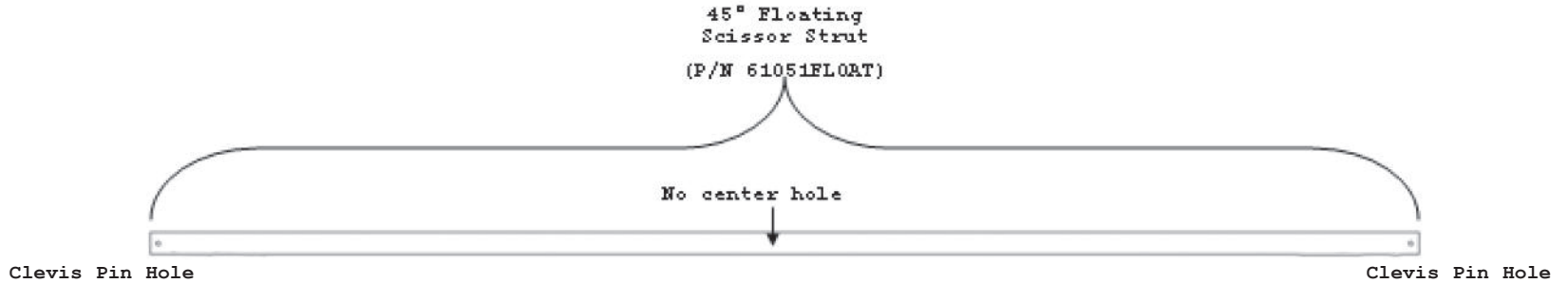
Hub/Lock Assembly



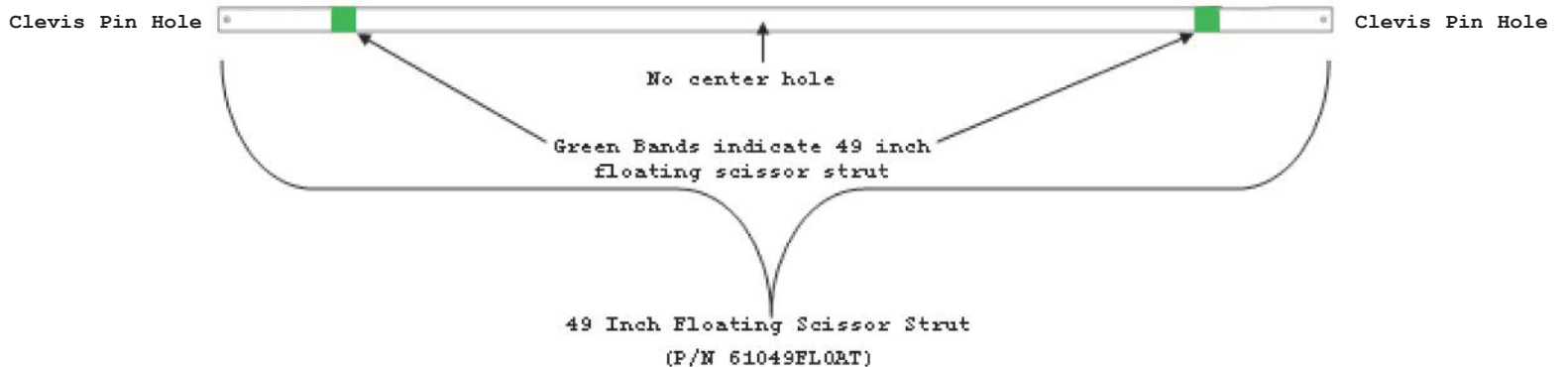
Dome Series Hub/Lock Assembly



45° Floating Scissor Strut Assembly (NO center hole)



49" Floating Scissor Strut Assembly (NO center hole)



Warranty Statement

HDT Engineered Technologies (HDT) Expedition Shelters are guaranteed for a period of 3 years from the date of purchase. At the discretion of the manufacturer, HDT will repair or replace any component that fails as a result of workmanship or materials. Conditions such as tears in fabrics or screens, bent poles, stretched cables, broken tent stakes, and broken light bulbs are considered normal wear and tear and as such are not covered by this warranty. Some components may have other manufacturer warranties (such as light bulbs). Contact that component's manufacturer for more information.

The purchaser is responsible for cleaning and returning defective components to our manufacturing facility located at:

HDT Expeditionary Systems, Inc.
6051 North Lee Highway
Fairfield, Virginia 24435

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INSTRMAN-DOME Rev. B