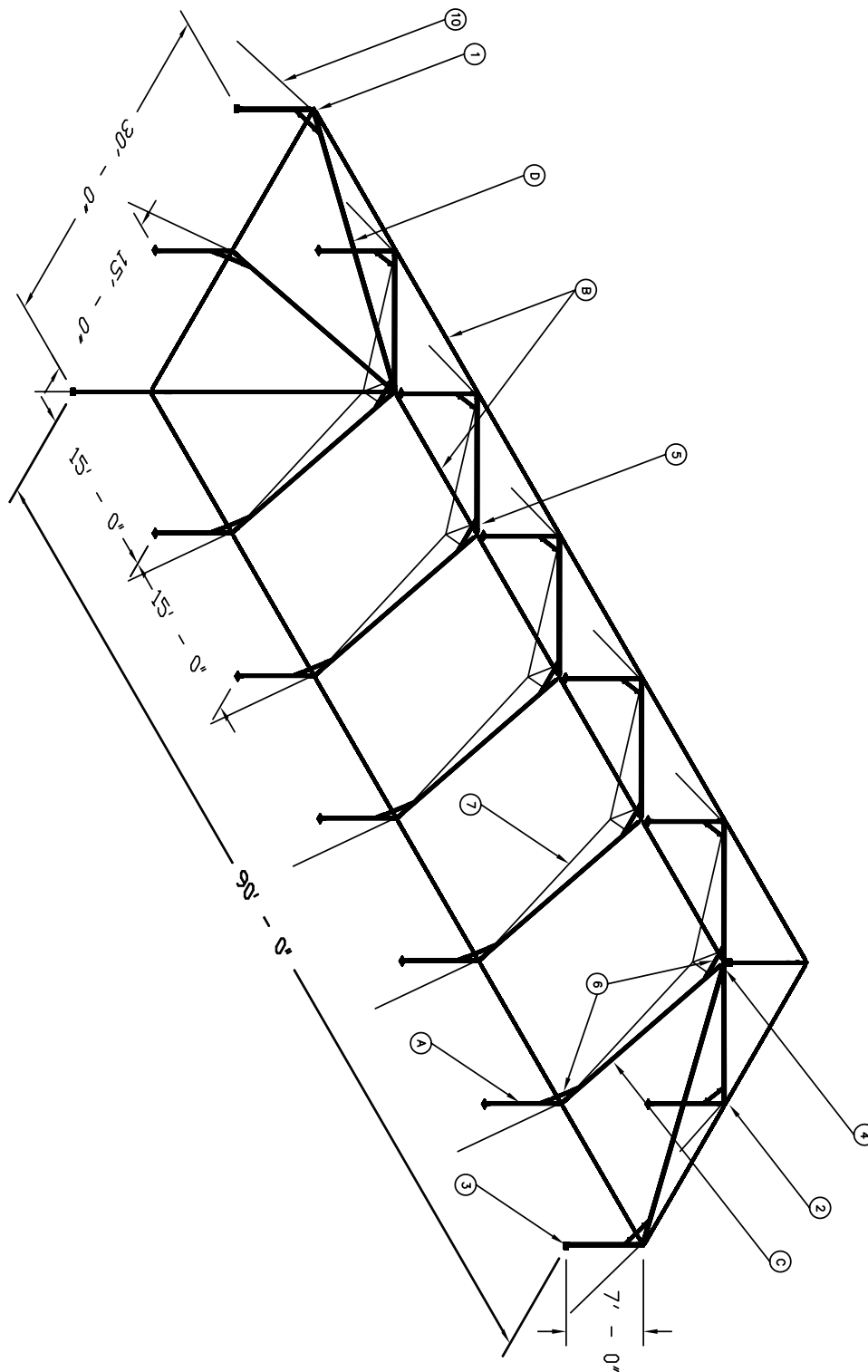


30' x 90' ETS FRAME TENT INSTRUCTIONS

DESCRIPTION	QUANTITY	PART #	DESCRIPTION	QUANTITY	PART #	DESCRIPTION	COLOR	QUANTITY	PART #
1 TRADITIONAL CORNER FITTING	4	F-01-COR	7 1/2" POINT CABLE ASSEMBLY FOR 50' WIDE HYBRID FRAME	5	ACFTC-4PT-30	A 6" - 2" ALUMINUM DOUBLE TUBE POLE	BROWN	16	2A0T180
2 RING FITTING WITH WELDED RING FOR CABLE ATTACHMENT	12	F-02-ST-RING	8 2.50" PIN & BALL	45	ACFTPB	B 1 1/4" - 2" ALUMINUM SINGLE TUBE POLE	RED	20	2A0T172
3 STANDARD BASE PLATE	14	F-03-BP	9 1.50" BOLT AND WINGNUT ASSEMBLY FOR DOUBLE TUBE	69	ACFTD1A	C 1 1/4" - 2" ALUMINUM DOUBLE TUBE POLE	GREEN	12	2A0T193
4 TRADITIONAL 6 WAY CROWN FITTING	2	F-05-6WC	10 RATCHET BUCKLES	16	AC-055-GR	D 2 1/4" - 2" ALUMINUM DOUBLE TUBE POLE	RED	4	2A0T262
5 TRADITIONAL RIDGE CROWN	3	F-08-RC	11 STAKES/ANCHORS	16	ACTS				
6 ADJUSTABLE DOUBLE TUBE BRACE	21	F-37-D1-ADJ-BRACE							



2700 SQ. FT.

30' x 90' ETS FRAME

FIELD INSTALLATION PRINT



PART NUMBER: KIT-ETS030X090X7'

CREATED BY: LK

DATE: 09-05-06

REVISION #: 0

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PROPRIETARY INFORMATION

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30' x 90' ETS FRAME TENT INSTRUCTIONS

1. A minimum of 8 people and 4 frame tent jacks are recommended for the proper installation of this tent. Refer to the parts list at the top of the diagram to make sure you received all parts required for proper installation of this tent.
2. The layout begins with the frame parts being positioned on the ground in the approximate location they will be in when the frame is assembled. The perimeter parts are laid out to form the perimeter, and the roof support parts are placed in the interior in their general locations. Laying out the parts in this way facilitates the assembly. (See Diagram 30' X 90' Layout)
3. Begin the frame assembly with one of the 6 way crowns (DIAGRAM #4). Attach the double tube HIP rafters (21'10.5" red) to the 6 way crown fitting (MAKE SURE THE ROUND PART OF THE DOUBLE TUBE SLIDES OVER THE FITTING AND IS INSTALLED SO IT IS ABOVE THE "U" SHAPED PART OF THE TUBE). Each 21'10.5" red tube should be angled toward a corner (DIAGRAM #D). Line up the holes in the double tube pole with those in the fitting (the hole closest to the center of the fitting should be lined up with the end of the tube, the bolt goes through the hole in the tube and through the hole farthest from the center of the fitting: ALL PINS SHOULD BE FASTENED THROUGH THE HOLE IN THE TUBE AND THE HOLE CLOSEST TO THE OUTSIDE EDGE OF THE FITTING. Bolt the double tube hip rafters to the 6 way crown using a bolt and wing nut. (Install the bolt so that the wing nut is pointed towards the ground to prevent the bolt from puncturing the tent top during installation)
4. Attach the double tube rafters (16'1" green) to the three downward points of the 6 way crown using the same technique as in step 3 (DIAGRAM #C). You should now have 5 tubes coming off the 6 way crown.
5. Attach the adjustable double tube brace connecting the two double tube rafters (16'1" green) located directly under the 6 way crown. Place the brace on the double tube rafter by aligning the holes in the rafters with that of the brace, attach the brace to the rafters using a SQUARE pin and bail. (The brace should be installed so that the cable brackets on the square brace are pointing toward the ground) Also, secure the brace by placing a SQUARE pin and bail in the adjustment slot located in the center of the brace. The brace adjustment should be adjusted to its longest position for this particular application. (DIAGRAM #6)
6. Attach the two shorter cables (3 ft) that are attached to the "O" ring of the 4 point cable assembly to the brackets on the brace just below the 6 way crown fitting. Secure the cables to the brace using the carabiner clips that are attached to the cable assembly. (DIAGRAM #7)
7. Using pin & bails, attach a SINGLE TUBE spreader (14'4" red) from the 6 way crown across the top and connect it to the ridge crown fitting toward the middle of the frame (DIAGRAM #5 & #B).
8. Using bolts and wing nuts, attach a rafter (16'1" green) to each side of the ridge crown that point toward the sides of the tent.
9. Attach the adjustable double tube brace connecting the two double tube rafters (16'1" green) located directly under the ridge crown. Place the brace on the double tube rafter by aligning the holes in the rafters with that of the brace, attach the brace to the rafters using a SQUARE pin and bail. (The brace should be installed so that the cable brackets on the square brace are pointing toward the ground) Also, secure the brace by placing a SQUARE pin and bail in the adjustment slot located in the center of the brace. The brace adjustment should be adjusted to its longest position for this particular application. (DIAGRAM #6)
10. Attach the two shorter cables (3 ft) that are attached to the "O" ring of the 4 point cable assembly to the brackets on the brace just below the ridge crown fitting. Secure the cables to the brace using the carabiner clips that are attached to the cable assembly.

30' x 90' ETS FRAME TENT INSTRUCTIONS

- 11.** Using pin & bails, attach a SINGLE TUBE spreader (14'4" red) from the ridge crown across the top and connect it to the next ridge crown fitting. (DIAGRAM #B). Repeat steps 8, 9, & 10.
- 12.** Using pin & bails, attach a SINGLE TUBE spreader (14'4" red) from the ridge crown across the top and connect it to the next ridge crown fitting. (DIAGRAM #B). Repeat steps 8, 9, & 10.
- 13.** Using pin & bails, attach a SINGLE TUBE spreader (14'4" red) from the ridge crown across the top and connect it to the last 6 way crown fitting. (DIAGRAM #4 & #B). Repeat steps 3, 4, 5, & 6.
- 14.** Attach the other ends of the 21'10.5" hip rafters to the corner fittings by sliding the double tube pole over the fitting. Line up the hole of the double tube with those of the fitting and secure it with a bolt and wing nut. (Place the bolt in the hole farthest from the center of the fitting and remember that the bolt should be installed so that the wing nut is on the bottom side of the tube facing the ground) (DIAGRAM #1)
- 15.** Attach the 16'1" double tube rafters to the side tee fittings by sliding the rafter over the fitting. Line up the hole of the double tube with those of the fittings and secure it with a bolt and wing nut. (The bolt should be installed so that the wing nut is toward the ground). (DIAGRAM #2)
- 16.** Attach the remaining two longer ends of the 4 point cable assemblies to the rings located on the side tees. (DIAGRAM #7)
- 17.** Now the perimeter is ready for assembly. The side tee and corner fittings on the 15' bay openings need to be connected using 14'4" red SINGLE TUBE spreaders. Slide the tube over the fitting and secure it using a ROUND pin & bail. (Make sure the flat part of the pin is up and the pin is pointed toward the ground to prevent snags during tent top installation). (DIAGRAM #B)
- 18.** You are now ready to install the tent top. (If installing a multiple piece top refer to "LACING A TENT" at the bottom of these instructions.) Using a drop cloth, spread the tent top out on the ground next to the 90' side of the tent making sure that the top is facing upward. (An easy way to check is to make sure the sidewall ropes around the perimeter of the tent are face down). Carefully pull the tent over the frame making sure the tent does not drag or stretch across any part of the fittings or fasteners. Use a "flapping" technique to help get the top into place. CAUTION: Dragging, pulling, or sliding the vinyl tent top across the ground, frame, or any other type of surface may cause pin holes in the vinyl top.
- 19.** Secure the tent top to the frame by fastening the straps on the inside of the tent at each corner location. The strap wraps around the spreader tube and through the alligator clips on the inside of the tent. If weather conditions warrant (wind, rain, etc) you may need to fasten more than just the corners of the top at this time.
- 20.** Before installing the legs to the frame, attach all of the base plates to the legs by sliding the double tube leg (6'8" brown or 7'8" black) over the base plate and securing it with a bolt and wing nut. (DIAGRAM #3) (Make sure the head of the bolt is on the outside of the tent and the wing nut is on the inside of the tent to prevent snagging sidewalls during use). Now the tent is ready to be raised.
- 21.** Start along a 90 foot side by lifting the frame using Frame Tent Jacks so that the double tube legs (6'8" brown, or 7'8" black) can slide over the bottom of the corner and side tee fittings. (Frame Tent Jacks should be used as close to a fitting as possible) Install all corner and side legs completing the 90 foot side. Fasten the leg to the fitting using a bolt and wing nut. (Make sure the head of the bolt is on the outside of the tent and the wing nut is on the inside of the tent to prevent snagging sidewalls during use.) (DIAGRAM #A)

30' x 90' ETS FRAME TENT INSTRUCTIONS

- 22.** Once one side is completed, use the frame tent jacks to lift the opposite 90 foot side and install the corner and side legs as in step #21 above. After both 90 foot sides have been completed, install the remaining side legs on the 30 foot sides.
- 23.** Once all legs are installed, angle a brace between each double tube leg and rafter by lining up the holes on the rafter and brace. Attach the brace to each tube using a SQUARE pin and bail. Use a SQUARE pin and bail in the center adjustment to secure the brace. (At the corners the brace will be adjusted to the shortest position, and at the side tees the brace will be adjusted to the middle position) Repeat until there is a brace between each leg and rafter. (DIAGRAM #6)
- 24.** Now that the frame tent is standing, fasten the tent top completely to the frame using the straps on the inside of the tent. Make sure that all of the straps are tight and the tent top is sitting evenly on the frame. (Each 6 way crown & ridge crown fitting should be directly beneath the center of the round or triangular reinforcement patch that has been manufactured into the tent top)
- 25.** Fasten either a ratchet strap or rope to the side tee or corner fitting at each leg location. Drive a 42" steel stake approximately five feet out from each leg.
- 26.** Attach an anchoring device (ratchets or ropes) to the stakes at each leg location. (DIAGRAM #10)
- Ratchets-** turn the 6" loop at the end of the ratchet inside out and pull the strap through the loop to create a noose. Slip the noose over the stake head and pull tight so the knot rests just below the head of the stake. Take the strap from the tent and pull it through the reel bars slot of the ratchet (ratchet buckle needs to have handle facing upward at all time). Pull the strap back towards the tent until all the excess strap is out and it is tight. Hold the strap at this point with one hand and begin to crank the ratchet handle back and forth with the other hand until the reel bars have turned at least 2 times, this eliminates the chance of slippage. Repeat at all leg locations. Make a few rounds to make sure the straps are tightened evenly. Over tightening one side may cause the tent to be uneven.
- Ropes-** use a Double Loop Clove Hitch Knot – grip the rope in your left hand approximately 8' down from the perimeter of the tent, at this point, take your right hand and create a loop (approximately 6") with the excess rope and place it in your left hand. Repeat and create another loop and place on the right side of the previous loop (should have 2 and a half loops in your left hand). Take the right loop and pull it up and over so it is now on the left side. Now place both loops over the stake and pull tight with excess rope. Repeat at all leg locations.
- 27.** The tent top should now be complete! If sidewalls are desired, unroll the sidewalls between the stakes and the side poles around the perimeter of the tent. Starting at a side pole, clip the sidewall snap hooks to the rope line that is attached to the tent top.

LACING A TENT

If you have a sectional or multiple piece tent top, it needs to be laced together before installation. Lay out all pieces of the tent top so that the grommet sides are next to the lace sides. Begin at the very center of the tent by pulling the first lace up from the bottom through the first grommet. Pull the second lace up through the second grommet. You should now have two laces through two grommets. Take the second lace (closest to you) and loop it up under and through the first lace and pull it back toward you. Bring the third lace up through the third grommet from underneath. Once the third lace is through, loop it up under the second lace and pull it back toward you. Continue this pattern all the way down to the end. Once at the end, take the long lace and loop it up under the last two laces and tie it back up to the 4th lace from the bottom. Tie a knot to hold it into place.



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