

ASSEMBLY INSTRUCTIONS

8' (Door End) of a Solexx Conservatory (within a 16' span or more)

Unit E

The G-308E is designed to be the Back 8' of a 16' X 16' or larger Greenhouse with continuous Bench Frames. This kit includes (2) doors with latches, (1) center double-decker bench, (2) single-tier (side) bench frames, (2) hanging rods and (1) Louver. (Joins with another 8' or larger unit.)

Assembly Required - all pipe has been precut - no cutting is required.

It is important to panel the greenhouse frame once it is completed and before it is rained on. The protective coating on the fittings is to protect the fittings from rust due to moisture or condensation. The protective coating was not designed for the volume of water produced when the fittings are rained on for a period of time with out the paneling on the greenhouse.

TOOLS PROVIDED:

- A. ¼" Nut Driver (Included in Screw bag.)

TOOLS NEEDED:

- A. VARIABLE SPEED DRILL
 B. SCREWDRIVER
 C. LONG SHARP KNIFE
 D. TAPE MEASURE
 E. STEP LADDER
 F. PLIERS
 G. VICE GRIPS
 H. 2-3 tubes IS800 Silicone Rubber Adhesive Sealant & a Caulking Gun
 I. 8 oz. can of "Clear" PVC CEMENT (Available at a hardware store). **

Follow the instructions on the glue can. Do not apply glue if it is colder than the instructions indicate for proper use. ► **NOTE: GLUE DRIES VERY QUICKLY!

Please read instructions carefully and refer to the diagrams.

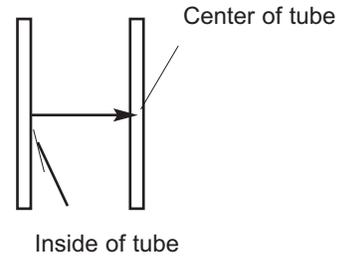
►►Attention:

There are two types of frame tubing in your kit. The Composite Tubing is a heavier thick-walled tubing that has a gray fiber weave throughout (looks like a fiber texture) while the PVC tubing is a thin-walled tubing. The super strong Composite Tubing will be used for the structural areas of the greenhouse frame. The PVC is used in areas where the pipe needs to be flexible to bend or in non-structural areas.

Hints for Preassembly

A.

Note: All measurements are taken from inside one tube to the center of the other tube so one person can easily take the measurement by her/himself.



B.

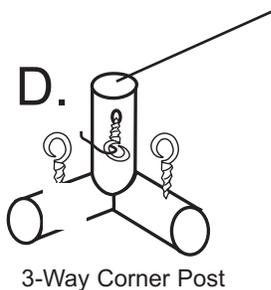
NOTE: Attaching Snap T's this way prevents pinched fingers! Use a small pipe and step on the Snap T.



C.

Note: Tubes that are double-slotted have a slot in both ends. Slotted Tubes only have slots in 1 end. All Slotted ends attach to Snap T's except for some of the 22" composite tubes - white (Double-Slotted).

With Red Marking



Note: The 3-Way Metal Corner posts have a red mark on the "dead end" arm. In order for all measurements to be correct, the 3-Way Metal Corner Posts must be oriented correctly on the Base Frame and on the End Wall Frames. Follow the directions carefully about where the red arm is pointing. Please look at these fittings and check out the arm with the red marking.

E.

▶▶ PVC Pipe is White and Composite Pipe is white with small gray fibers throughout and will not bend.

F.

Very Important!! NEVER glue the underside of the Snap T. You need to be able to slide the Snap T along the pipe. You only glue tubes into the enclosed arm

PRE-ASSEMBLY

Pieces Required

- 10 96" PVC Pipes WHITE (single slotted)
- 10 4" x 1" PVC Couplers
- 10 Metal Rings

MAKE 2 SETS



Top Rib Pipes

1. Glue a coupler on the slotted end of each 96" Pipe. Apply glue on about 2" of the 96" Pipe and about 2" into the inside of the coupler. Slide the Pipe into the coupler about 2" (to the end of the glue site).
2. Slide two Metal Rings onto four 96" PVC pipes. Slide one Metal Ring onto two 96" PVC pipes

These are the Top Rib Pipes to be used in Step V.

I. TOP RIDGE FRAME & BASE RODS

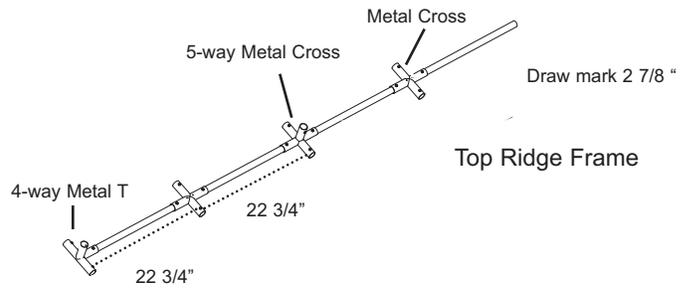
Pieces Required:

- 2 Metal Crosses
- 1 4 Way Metal T
- 1 5 Way Metal Crosses
- 7 92" Composite Tubing - RED
- 16 Snap T's

Top Ridge Frame

Complete on a level surface so the Top Ridge Frame will be flat and not twisted. Top Ridge Frame is used in Step V,

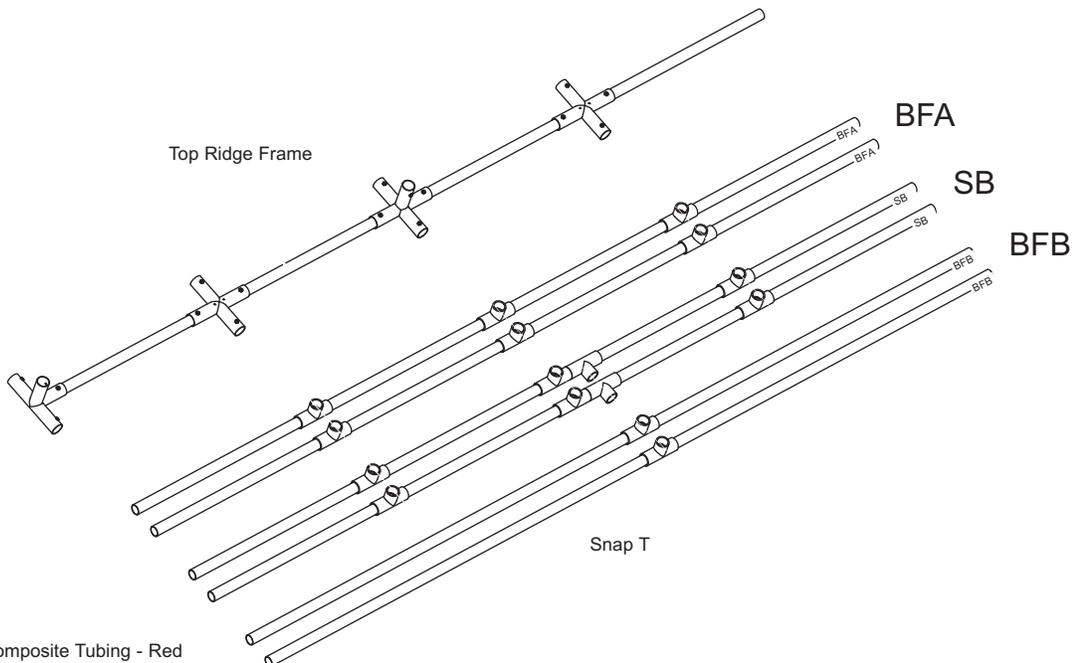
1. Draw a line with a marker $2 \frac{7}{8}$ " from one end of a 92" Composite Tube. Insert pipe into the Metal Fittings (start with non-marked end) in the following order: 4-Way Metal T, Metal Cross, 5-Way Metal Cross, and Metal Cross.



2. Carefully measure and set the fittings $22 \frac{3}{4}$ " apart from inside1 fitting to the center of the next fitting. The overall measurement is $92 \frac{3}{4}$ ". **This Top Ridge Frame will be used as a measuring device throughout construction.**

Making the Base Rods

3. Attach Snap T's to the remaining 92" Composite Tube using the Top Ridge Frame as a guide. Line up the Snap T's with the Metal Fittings on the Top Ridge Frame as shown. Label the pipes for reference; BFA, SB, BFB.



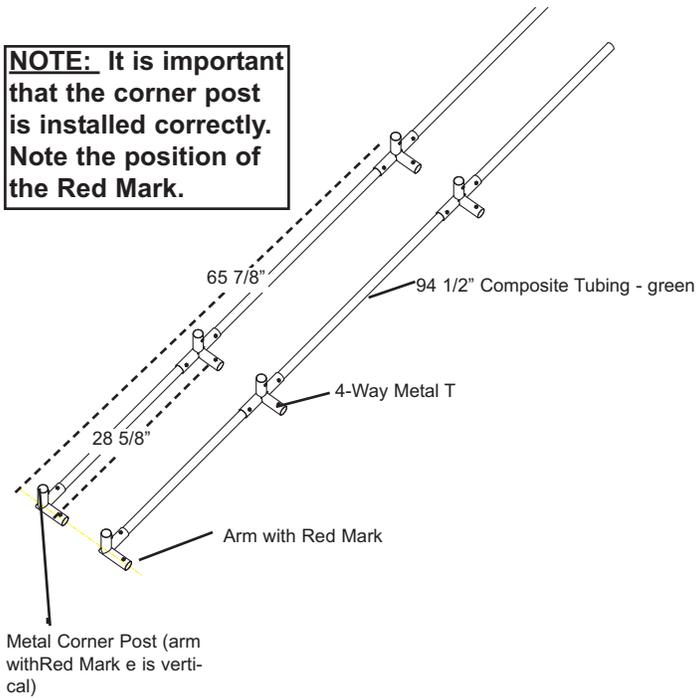
FRAME ASSEMBLY

II. BASE FRAME Make sure working surface is clean and level.

Pieces required:

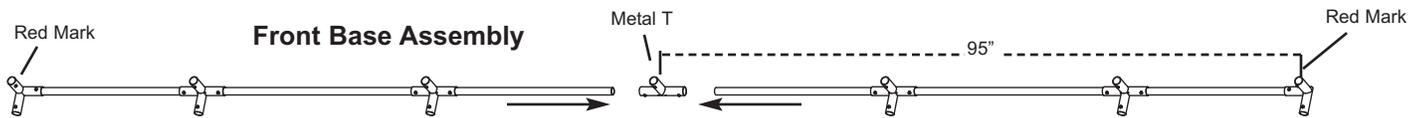
- 2 Metal Corner Posts
- 6 4-way Metal T's
- 2 94 1/2" Composite Tubing - GREEN
- 1 Metal T's
- 2 92" Composite Tubing - RED
- 1 57 1/2" Composite Tubing- WHITE
- 1 Snap T
- 2 BFA - 92" Composite Tubing - RED (from Step I)
- 2 BFB- 92" Composite Tubing- RED (Step I)

NOTE: It is important that the corner post is installed correctly. Note the position of the Red Mark.



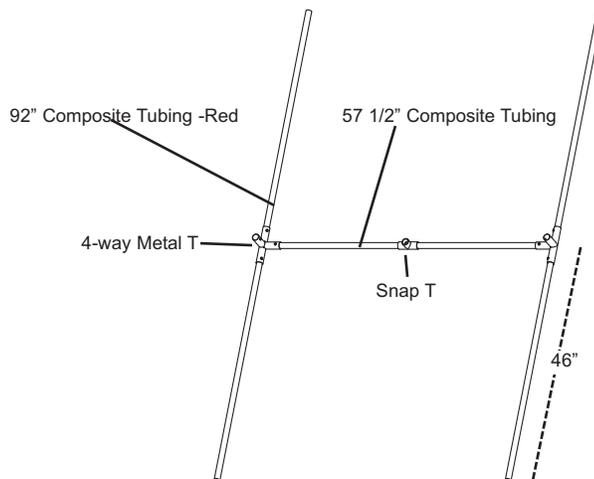
Front Base Assembly

1. On each 94 1/2" Composite Tube, make a mark with a pen 2 7/8" from each end.
2. Slide two **4-way Metal T's** onto a **94 1/2" Composite Tube**. Attach a **Metal Corner Post** (Note position of the arm with the Red Mark.) to the end so the arm of the Corner Post just touches the mark. Tighten the eye bolts. Adjust fittings so the measurement from inside of the Corner Post to the middle of the 1st 4-Way Metal T is 28 5/8", the measurement from the Corner Post to the 2nd 4-Way Metal T is 65 7/8". **Make 2**
3. Construct the Front Base Assembly by inserting each open pipe end of two of the assemblies in step 2 into a Metal T. Insert the pipe so the pen mark just touches the arm of the Metal T. Make sure that the measurements from the inside of each Corner Post to the center of the Metal T is 95".



Center Bench Base Assembly

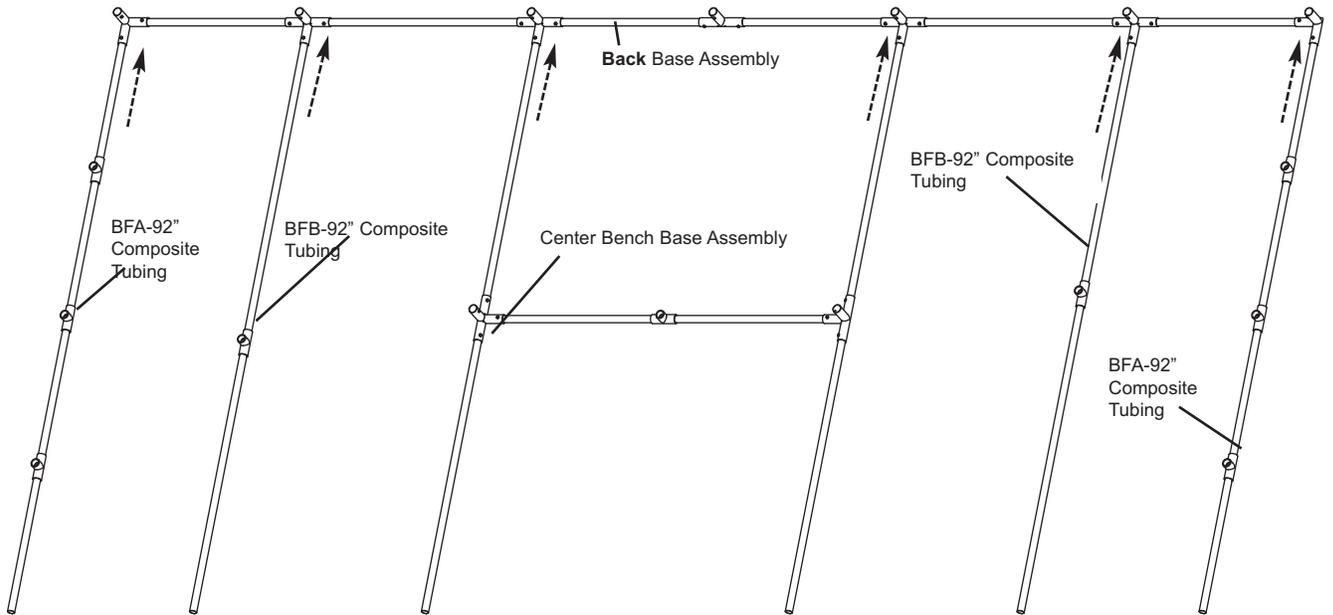
4. Slide a **4-Way Metal T** to the center (46") of a **92" Composite Tubing Red**. Make 2.
5. Attach a **Snap T** to the center (28 3/4") of the **57 1/2" Composite Tubing**. Slide 57 1/2" pipe into the 4-Way Metal T's on the 92" Pipes. Tighten eye bolts.



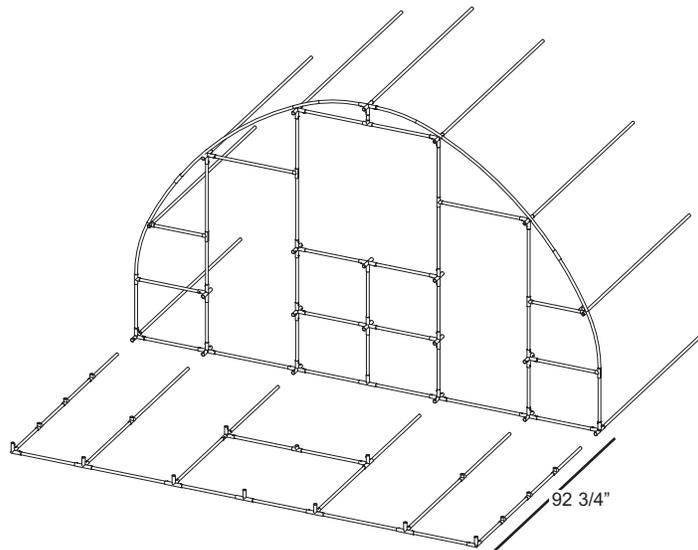
Center Bench Base Assembly

BASE FRAME ASSEMBLY

6. Insert the 92" tubes of the **Center Bench Base Assembly** into the 4-Way Metal T's on either side of the Metal T on the Front Base Assembly.
7. Attach the **BFB- 92" Composite Tubes** (from Step I, 3) into the open 4-Way Metal T's on the Front Base Assembly.
8. Insert the **BFA-92" Composite Tubes** (from Step I, 3) into the Corner Posts.
9. Tighten all the eyebolts



11. Attach the base assembly from above into the base frame fittings of Unit D. Tighten eyebolts. Measurement from inside to center of the fittings is 92 3/4".



III. CENTER BENCH FRAMES

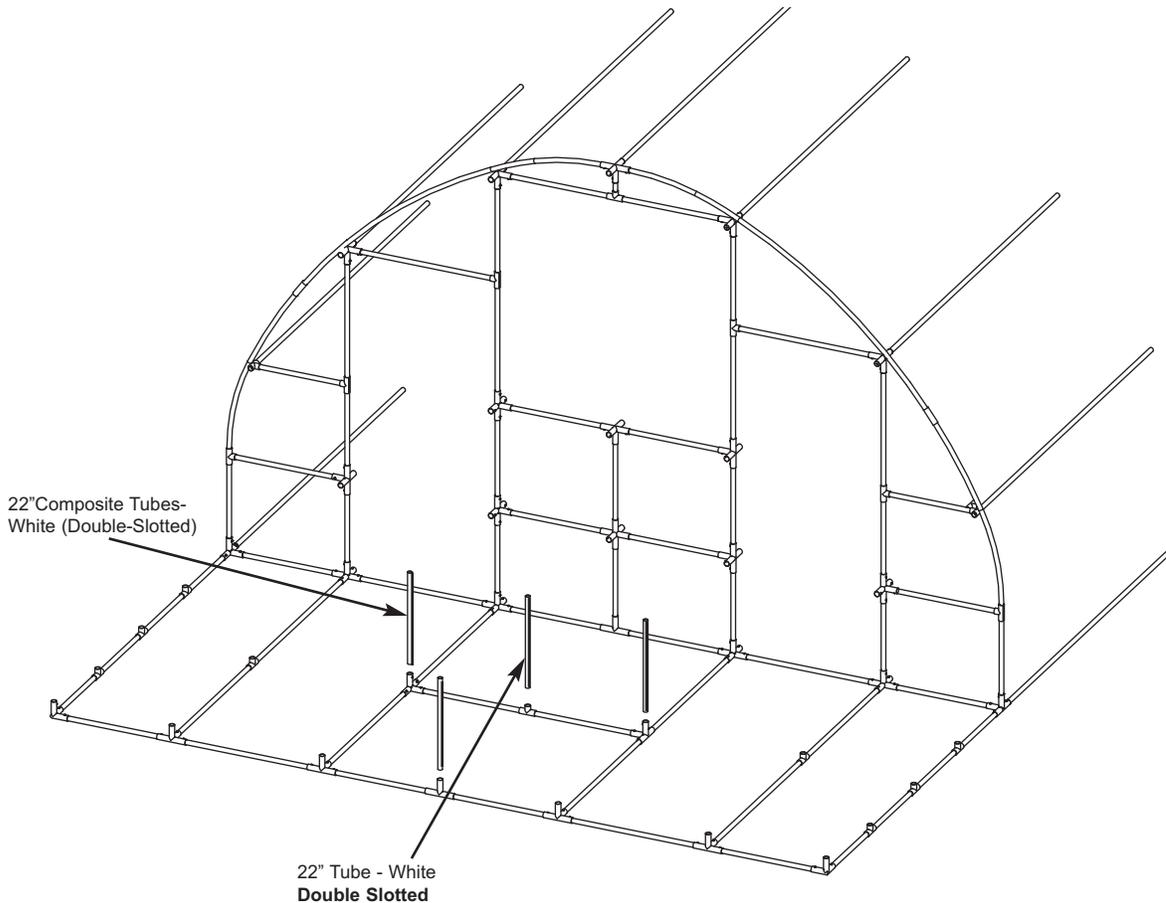
A. Vertical Bench Supports

Assemble on a clean and level working surface.

Pieces required:

4 22" Composite Tube- White (Double Slotted)

1. Slide three **22" Composite Tubes- White (Double-Slotted)** in the metal fittings on the center bench base assembly (as shown below). Tighten the eyebolts. Glue a **22" Composite Tube (Double-Slotted)** into the Snap T on the 57 1/2" Composite Tubing.

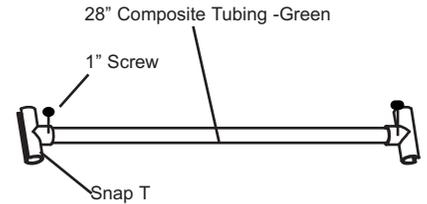


B. 28" Supports

Pieces required:

- 8 28" Composite Tubing - Green (**Double Slotted**)
- 16 PVC Snap T's
- 16 1" Screws

1. On a flat surface, attach a Snap T to each end of eight 28" Tube, making sure the Snap T's are parallel to each other. **NOTE: Apply glue around the outer end of the tube and inside the Snap T fitting hole for lubrication so the tubing will be easier to slide into the Snap T's.** The glue does not adhere to the Composite Tubing, so you will have to secure the tubing by drilling a **1" Screw** through the top of the Snap T and into the 28" Composite Tube.



28" SUPPORTS

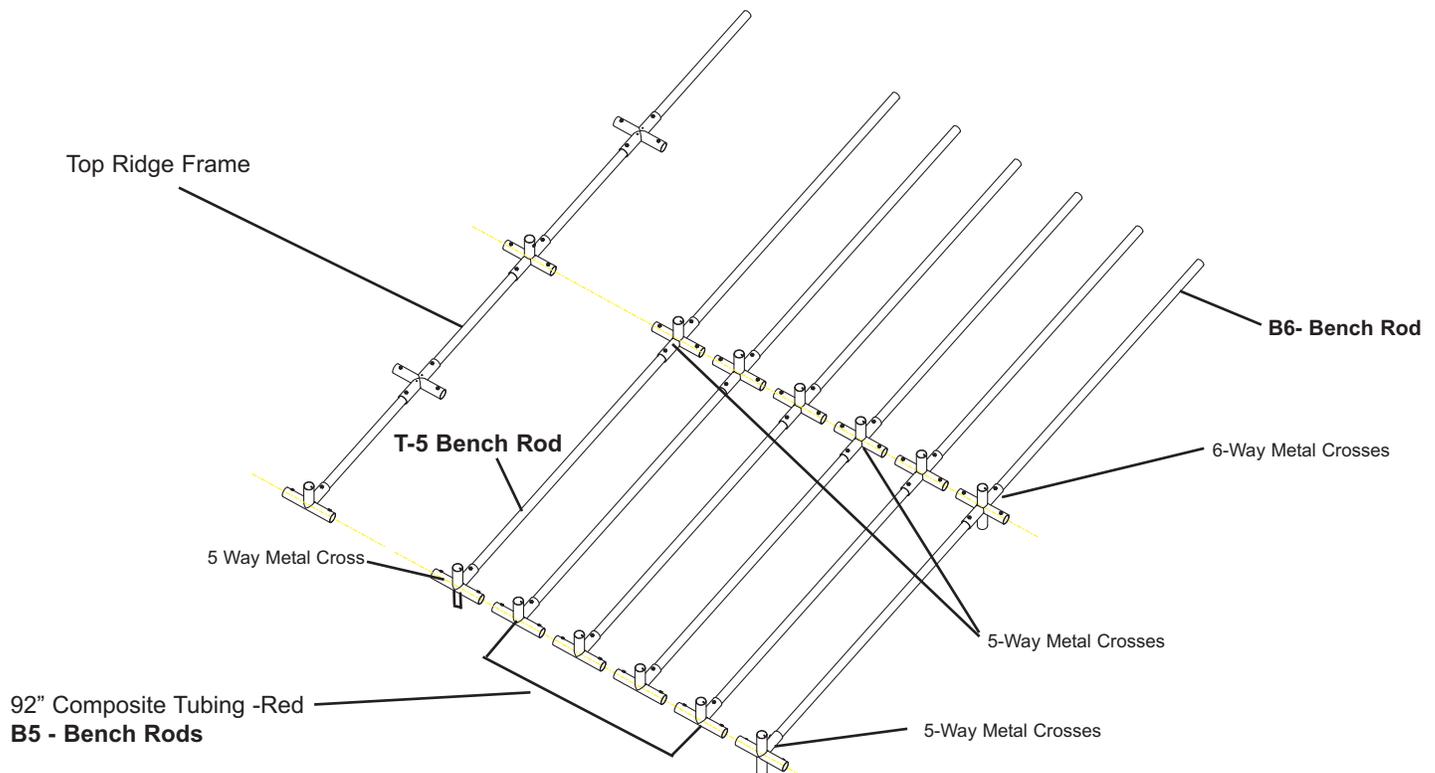
C. Bench Rods

Pieces required:

- 6 92" Composite Tubing- RED
- 4 4-Way Metal T's
- 7 5-Way Crosses
- 1 6-Way Cross

Use the Top Ridge Frame (Step I, 1) as a measuring device:

1. Make five B5- Bench Rods as follows:
On five 92" Composite Tubes, slide a 5-way Metal Cross to the center (46"). Attach 4-way Metal T's on one end.
2. Make the B6-Bench Rod as follows:
On one 92" Composite Tubes, slide a 6-way Metal Cross to the center (46"). Attach 5-way Metal T's on one end.
3. Make 1 T-5 Bench Rod: Slide on 2 5-Way Metal Crosses, 1 in the center and 1 on the end.(See Diagram for placement.)

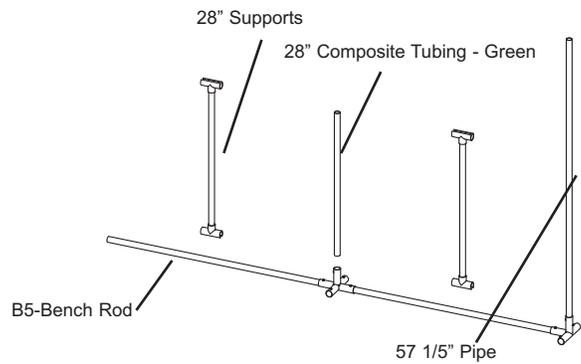


D. Bottom Bench Frames

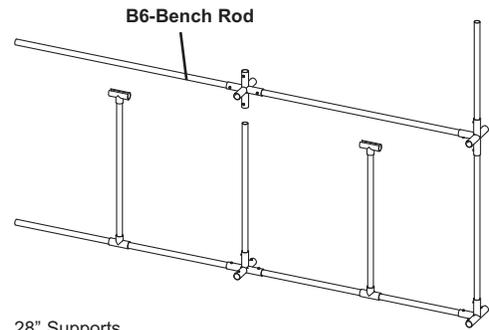
Pieces required:

- 2 B5-Bench Rods (Step III, C, 1)
- 1 B6-Bench Rod (Step III, C, 2)
- 1 57 1/2" Composite Tubing-White
- 2 28" Composite Tubing - GREEN
- 4 28" Supports (Step III, B)

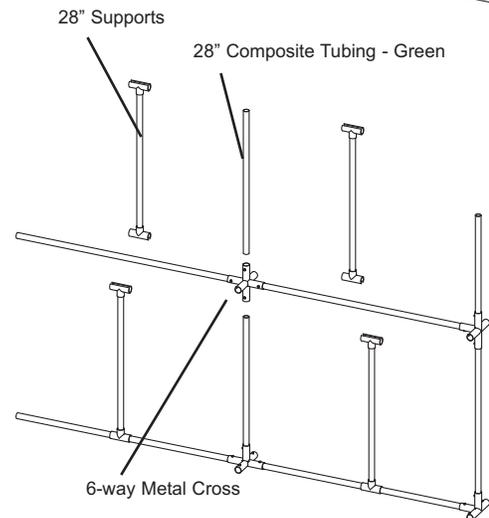
1. Using a B5-Bench Rod, insert a **57 1/2" Composite Tube** into 4-Way Metal T on the end. Tighten eyebolt. Insert a **28" Composite Tube** into the 5-Way Metal Cross in the center of the Bench Rod - tighten eyebolt. Next snap two **28" Supports** onto the bench rod, centering them between the steel fittings.



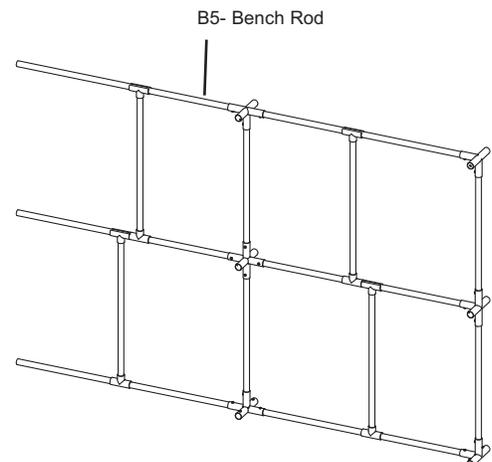
2. Slide the B-6 Bench Rod onto the 57 1/2" tube until the 6-way Metal Cross rests on the center 28" Composite Tube. Pop the snap T's of the 28" Supports onto the B6-Bench Rod. Tighten eyebolts.



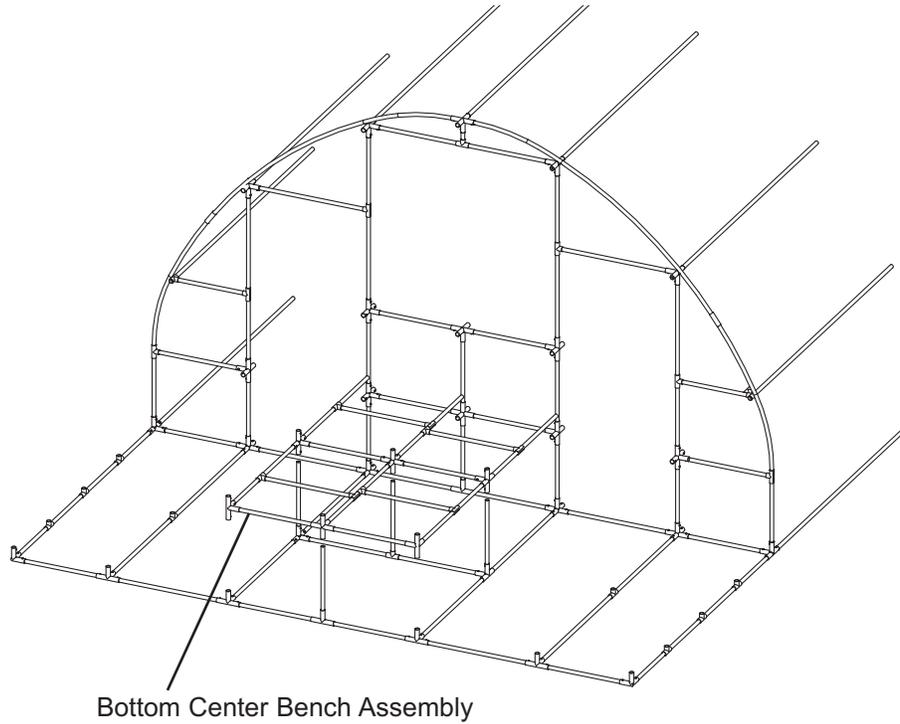
3. Insert a **28" Composite Tube** into the 6 Way Metal Cross - tighten eyebolt. Snap the remaining 28" Supports next to the Snap T's on the B6-Bench Rod.



4. Position the second B5-Bench Rod onto the 57 1/2" Composite Tube and on the 28" Composite Tube in the 6-way Cross and snap on the Snap T's of the 28" Supports. Tighten the eyebolts.



5. You have now completed the Bottom Center Bench Assembly. Turn this assembly so it is horizontal and slide the open ends into the metal fittings of the bottom center bench of the G-308D unit and set the Metal Fittings onto the 22" Composite Tubes- White. Tighten eyebolts.



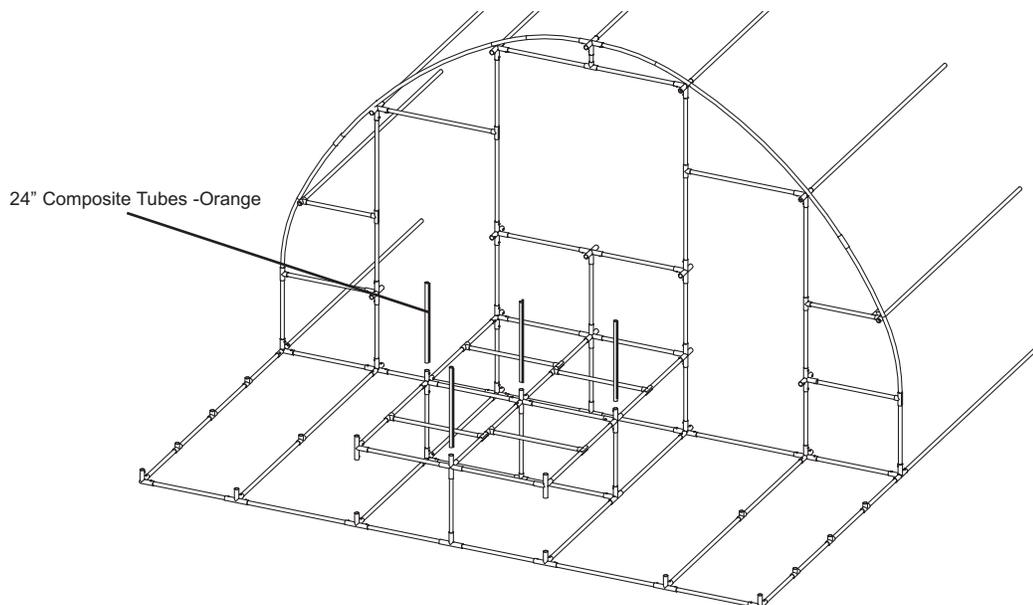
E. Top Bench Supports

Pieces required:

- 4 24" Composite Tubes- ORANGE

Vertical Bench Supports

1. Slide **24" Composite Tubes** into the open fittings of the bottom center bench as shown. Tighten eyebolts.



Make sure working surface is clean and level.

F. Top Bench Frames

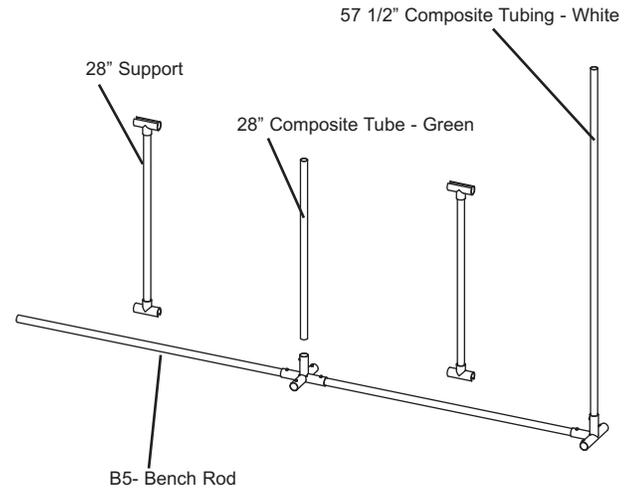
Pieces required:

- 2 B5-Bench Rods (Step III, C,2)
- 1 T-5 Top Bench Rod (Step III, C, 3)
- 1 57 1/2" Composite Tubing - WHITE
- 2 28" Composite Tube - GREEN
- 4 28" Supports (From Step III, B)

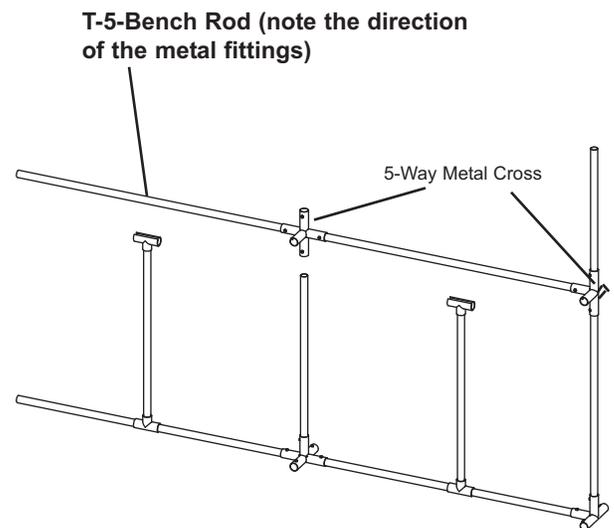
The same basic process is used in the Top Bench Frame as the Bottom Bench Frame, except that all the Bench Rods are the same.

You will complete steps 1-3 on a level floor and then lift the assembly up on the vertical pipes in step 4.

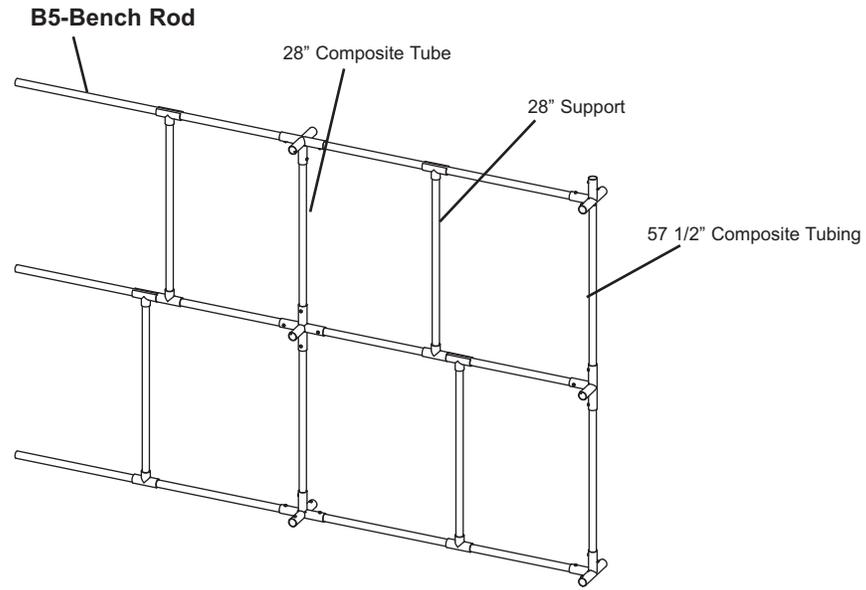
1. Using a B5- Bench Rod, insert a **57 1/2" Composite Tubing** into 4-Way Metal T on one end. Insert a **28" Composite Tube** into the 5-Way Metal Cross in the center of the pipe. Next snap two **28" Supports**, centered between the steel fittings. Tighten eye bolts.



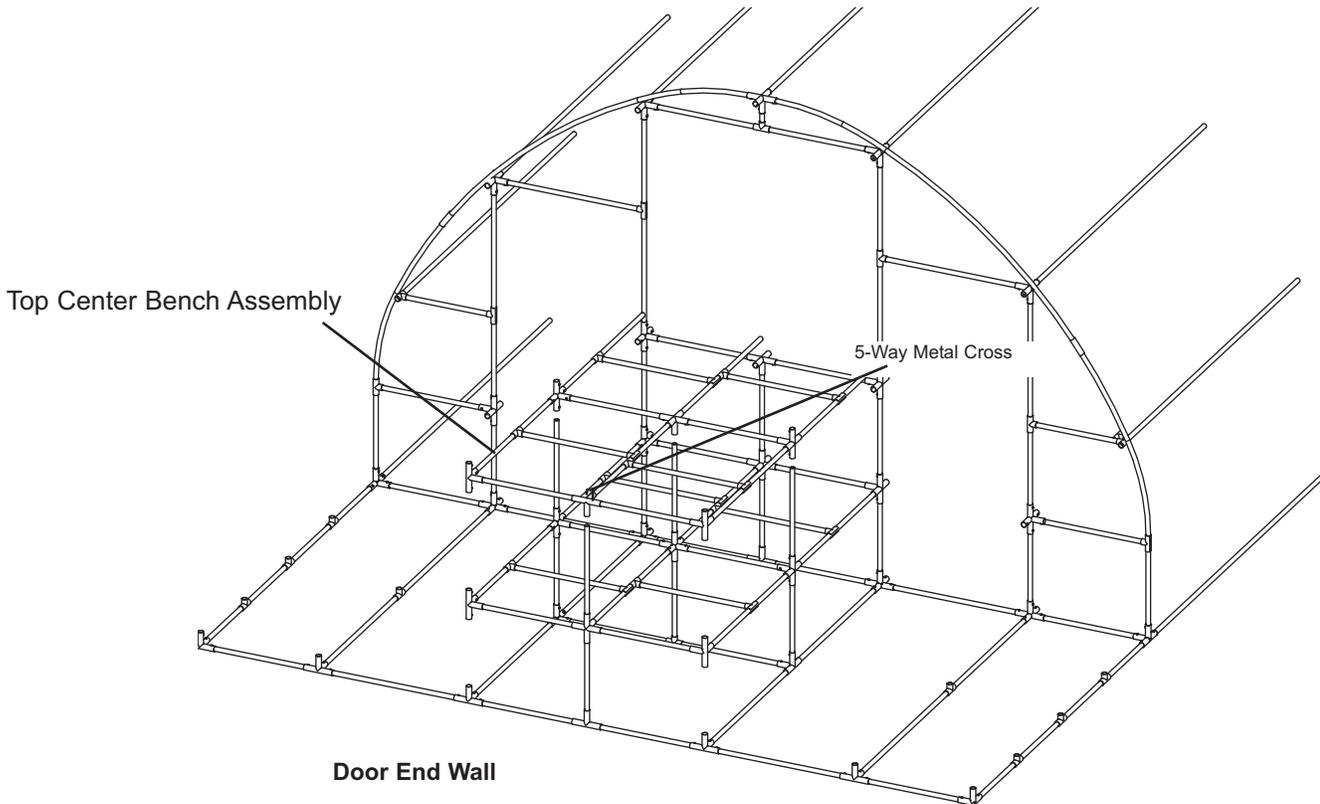
2. Slide the B-5 Bench Rod over the 57 1/2" Tube until the 5-way Metal Cross rests on the center 28" Composite Tube. Note the direction of the Steel fittings. Pop the snap T's onto the Bench rod. Tighten the eyebolts.



3. Insert a **28" Composite Tube** into the 5-Way Cross and snap the remaining 28" Supports next to the Snap T's on the Bench Rod. Set the last B5- Bench Rod onto the 57 1/2" Composite Tube and 28" tubes. Snap on the Snap T's of the 28" tubes . Tighten the eyebolts



4. You have now completed the Top Center Bench Assembly. Turn this assembly so it is horizontal and slide the open ends into the metal fittings of the top center bench of Unit D and set the Metal Fittings onto the 24" Steel & PVC pipes. Tighten eyebolts.

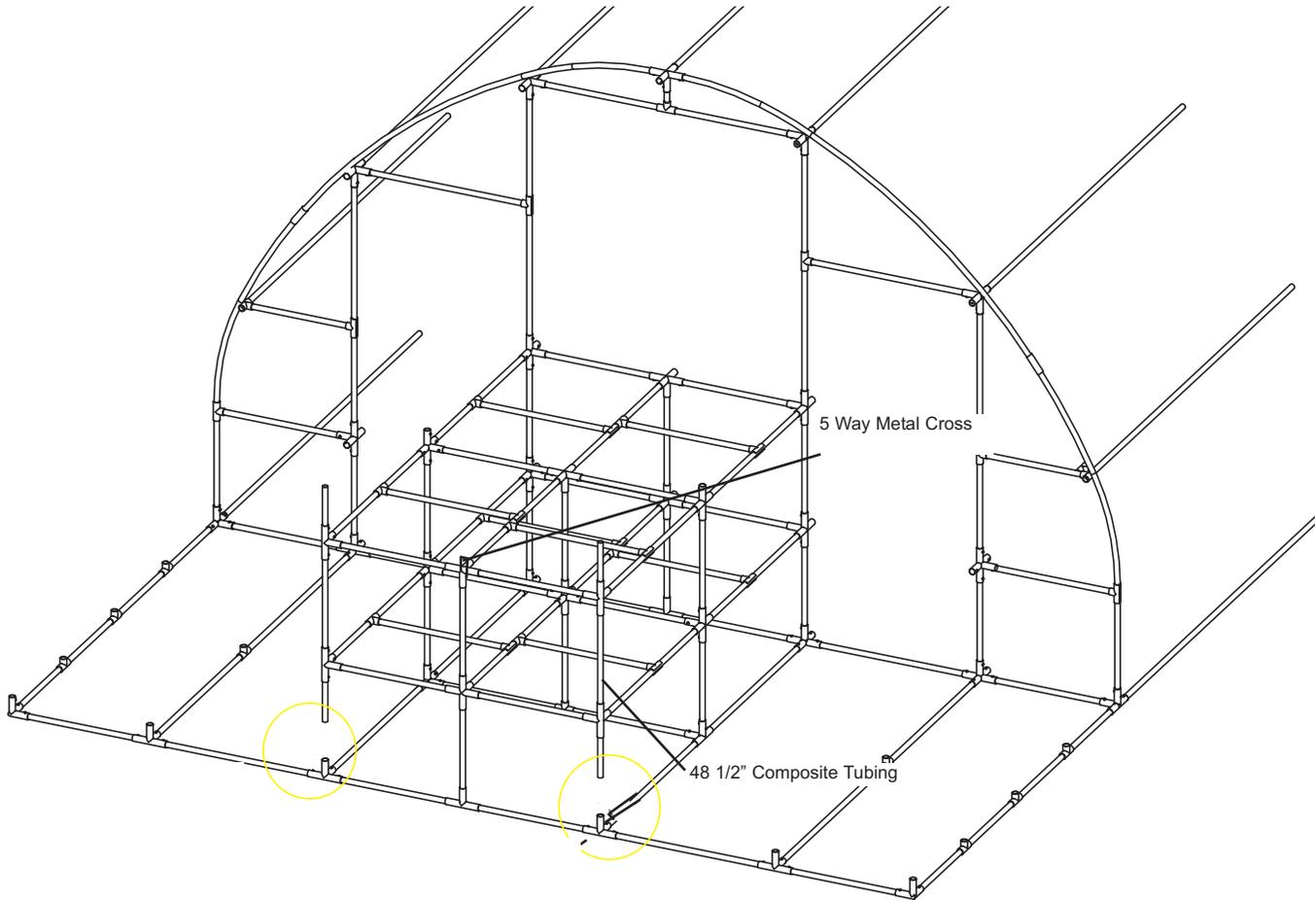


G. Bench Supports

Pieces Required:

2 48 1/2" Composite Tubing - Red

1. Insert the **48 1/2" Composite Tubes** into the **4-way Metal T's** on the corners of the **Center Bench Base Assembly**.



IV. UPPER HANGING RODS AND END SUPPORTS

** This section will be assembled upside down and will be turned over in Step 11.

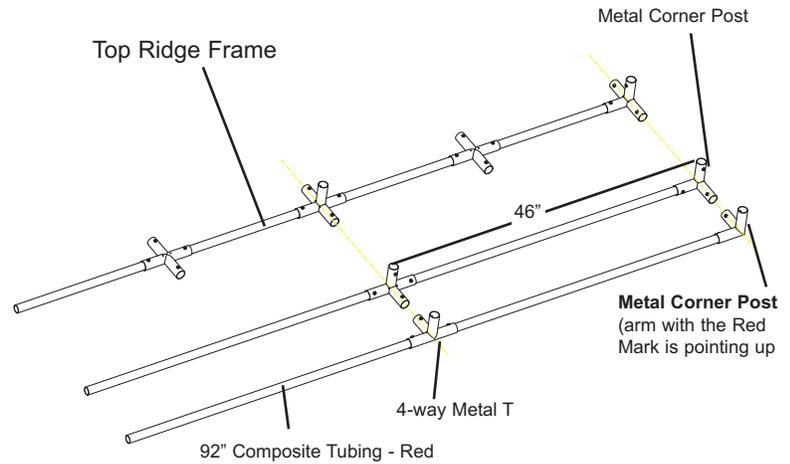
A. Hanging Rods **Make 2**

Pieces required:

- 2 Metal Corner Posts
- 2 4-way Metal T's
- 2 92" Composite Tubing - RED

MAKE 2

1. Mark a line 2 7/8" from one end of 92" tube and mark a line 2 3/4" from the other end.
2. Slide a **Metal Corner Post** on the end with the 2 3/4" mark on a **92" Composite Tubing** (post with the Red Mark is pointing up).
3. Slide on a **4-Way Metal T**, and attach to the center of the pipe, 46" from the inside to the Corner Post to the Center of Metal T. Tighten the eyebolts.



Hanging Rods

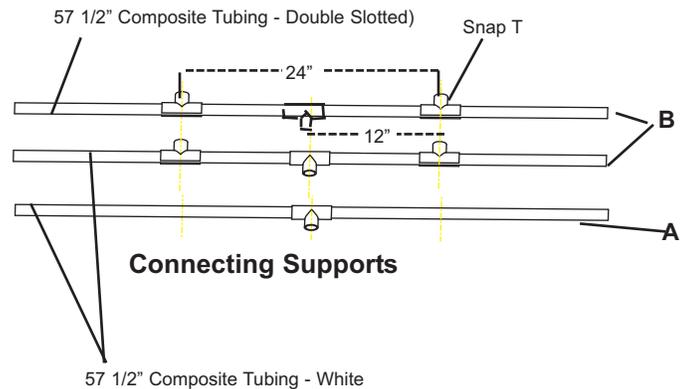
B. Connecting Supports

Pieces required:

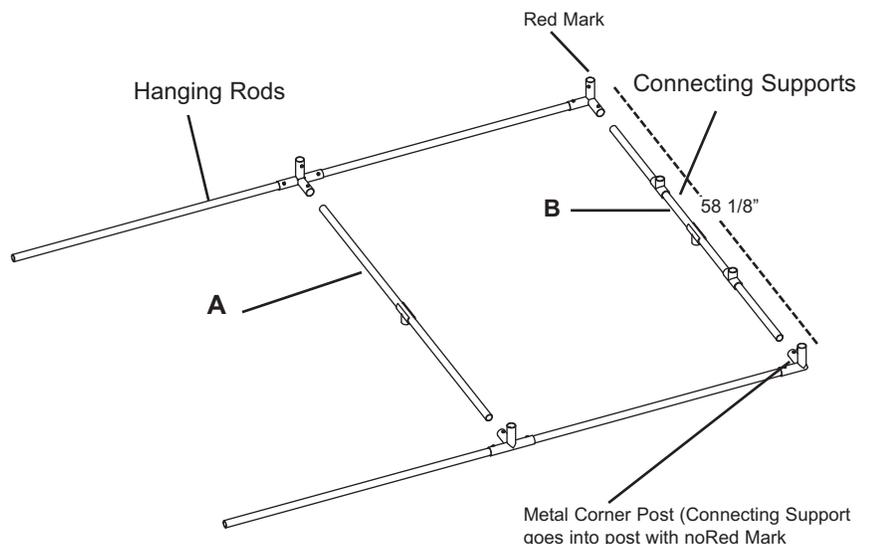
- 2 57 1/2" Composite Tubing - WHITE
- 1 57 1/2" Composite Tubing - WHITE (Double Slotted)
- 7 Snap T's
- 2 Hanging Rods (from previous Step IV-A)

Snap T's will be facing up, you will rotate them as shown in the drawing in later steps.

1. Attach a **Snap T** to the center (28 3/4") of all three **57 1/2" Composite Tubes**. On two of the 57 1/2" Composite Tubes, add two additional Snap T's 12" on either side of the center Snap T's.



2. Join the Hanging Rods together by inserting the 57 1/2" Composite **Connecting Supports (A) and (B)** (No slots), into the metal fittings (on Metal Corner Posts, insert Connecting Supports into the arm with no Red Mark). Make sure measurement between the corner posts is 58 1/8" from inside to center.

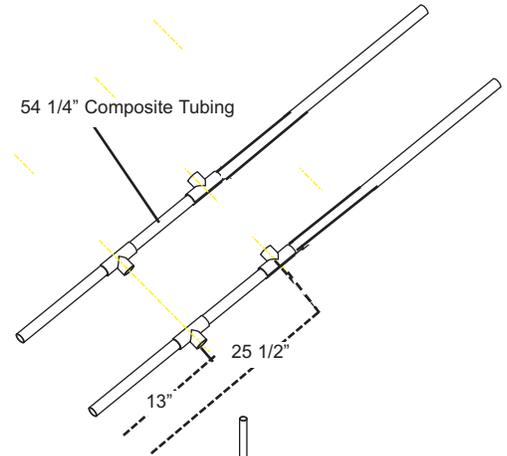


C. Attaching Vertical Pipes

Pieces Required

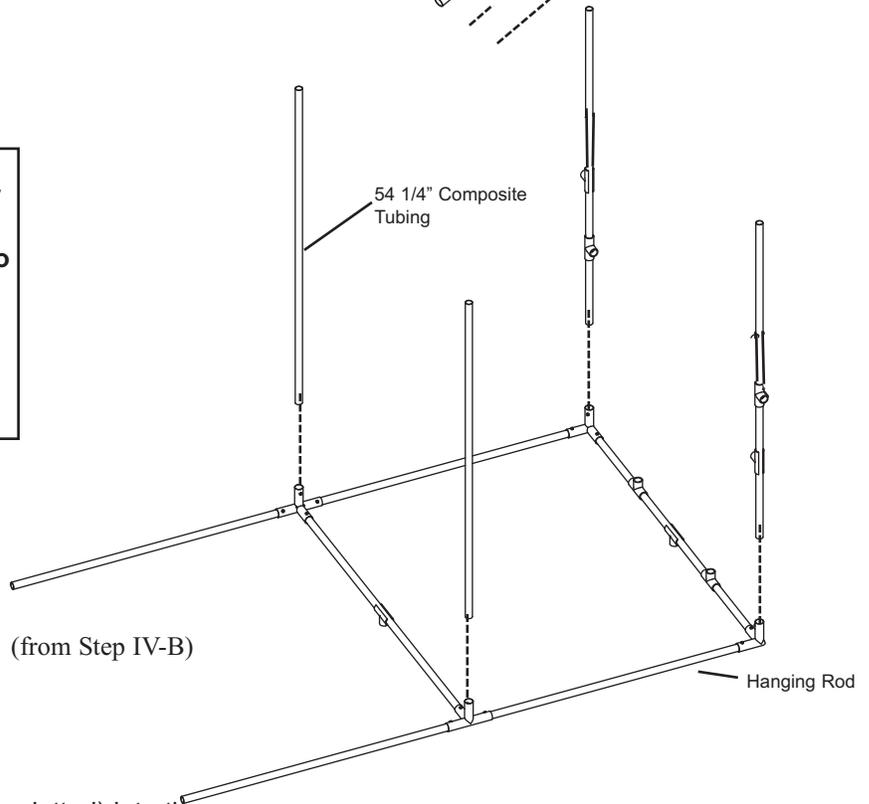
- 4 54 1/4" Composite Tubing - YELLOW
- 4 Snap T's

1. Attach 2 Snap T's to two 54 1/4" Composite Tubes, in the following order: Snap T at 13", Snap T at 25 1/2" These are for the **Door End**.
2. Insert the remaining 2 54 1/4" Composite Tubes into the 4-Way Metal T fittings of the Hanging Rods. Tighten the eyebolts.



Louvers

Your greenhouse includes 1 louver for the door end. However, if you are installing a fan on one end, please refer to your fan installation instructions. If you have a 16" fan or larger, you will have to use longer pipes in place of the 12 1/2" pipes.

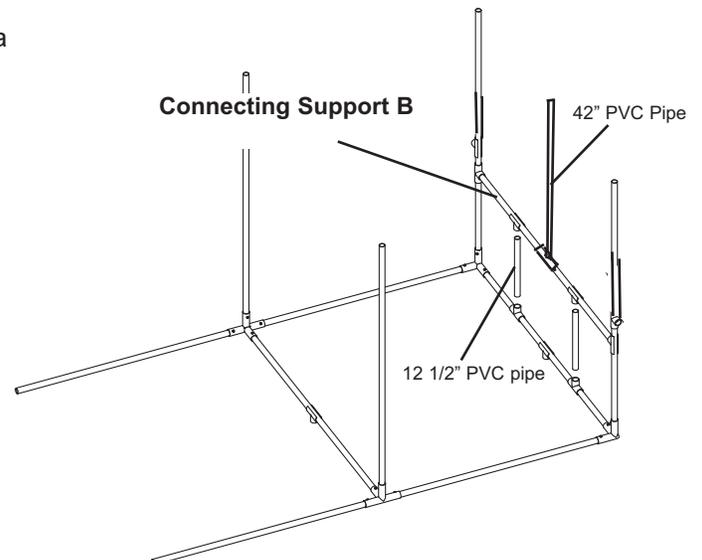


D. Attaching End Supports

Pieces Required

- 1 57 1/2" Connecting Support (B with Slots) - (from Step IV-B)
- 1 42" PVC Pipe - White
- 2 12 1/2" PVC pipes
- 2 1" Screws

1. Insert the 57 1/2" Connecting Support (double slotted) into the lower Snap T's on the vertical pipes. Remember about lubricating the tube with glue. You will need to secure the tubing by drilling a screw through the Snap T and into the 57 1/2" Composite Tube. Make sure tubes are seated all the way into the Snap T's.
2. Glue two 12 1/2" pipes into the Snap T's between the two 57 1/2" tubes. If you are using a fan larger than 12", you will have longer pipes in your fan box and will not use the 12 1/2" pipes.
3. If you are using a larger than 12" fan, you will need to shorten the 42" PVC pipe according to the size of fan. (ex. a 16" fan would require you to cut off 4" and a 20" fan would require 8" to be cut off). Insert this pipe into the Snap T on the 57" connecting Support.



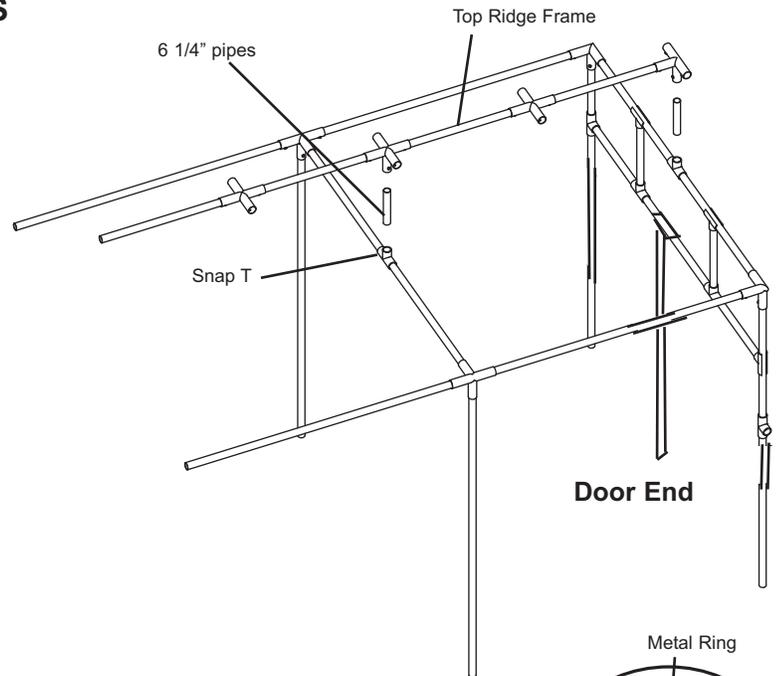
V. ATTACHING TOP RIDGE ASSEMBLY & RIBS

Pieces required:

- 2 6 1/4" PVC Pipes- White
- 1 Top Ridge Frame (from Step I)
- 8 Top Rib Pipes (From Preassembly, page 2)
- 4 Nuts & Bolts
- 4 Black Zip Ties

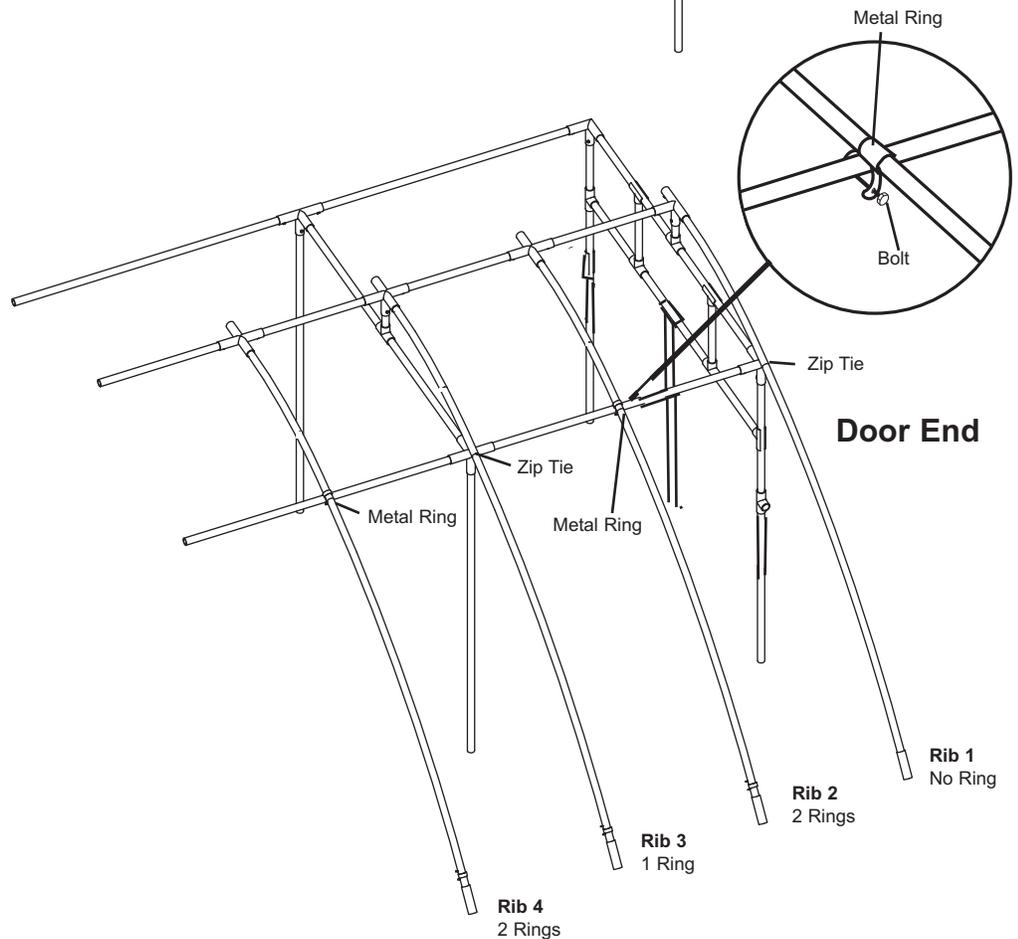
1. Turn the Hanging Rod Assembly over. Place a Louver (boxed separately) in the opening formed by the 12 1/2" pipes and 57 1/2" pipes. Adjust 12 1/2" Pipes to fit around Louver. Remove Louver once adjustment is made. If a fan is being used in place of the Louver, adjust the 57 1/2" pipes to accommodate the fan.

Make sure the length of the 42" pipe is adjusted so that all the pipes are just touching the ground.



Top Ridge Placement

2. Glue 6 1/4" pipes into the center Snap T's on the Connecting supports.
3. Attach the Top Ridge Frame to the 6 1/4" pipes. Make sure the 4-way Metal T is on the door end. Tighten eyebolts.
4. Repeat on the opposite side.

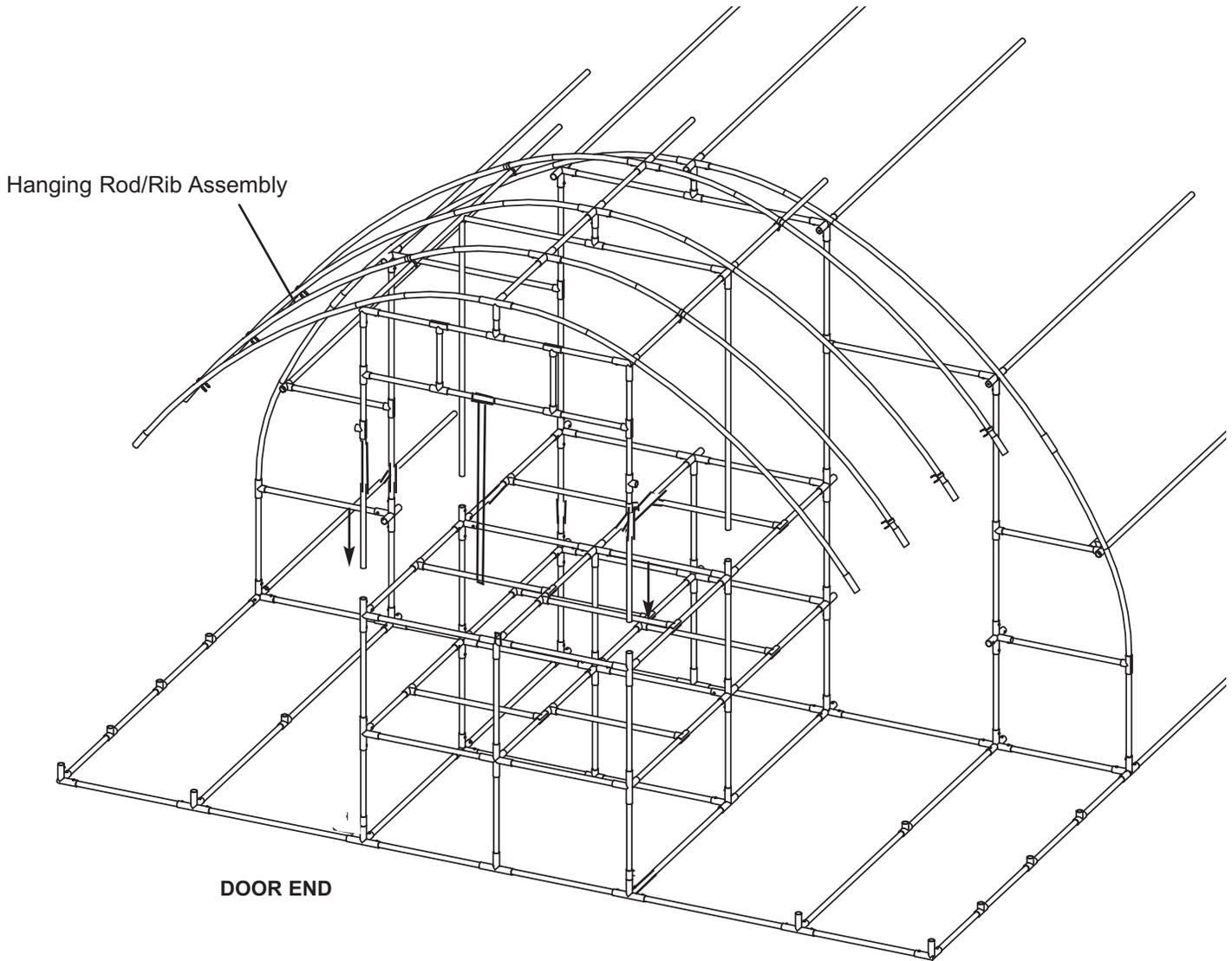


Insertion of Ribs

4. Insert the Top Rib Pipes into the Metal Fittings on the Top Ridge Frame.
5. Slide a Metal Ring on ribs 2 & 4 up to the Hanging Rods and adjust the "U" of the Metal Ring onto the Hanging Rod. Secure with a nut & bolt.
6. Attach Ribs 1 and 3 to the hanging rods using a Zip Tie. Wrap the Zip Tie around the rib and the Metal fitting so the Rib won't slip sideways. (Make sure the head of the Zip Tie is facing inside the greenhouse.)
7. Repeat Rib Insertion on the other side.

Placement of Hanging Rod/Rib Assembly

7. Pick up the Hanging Rod/ Rib Assembly and attach ends of the hanging rods and top ridge into the metal fittings of the hanging rods and top ridge of the adjoining unit. Insert the 54 1/4" tubes into the Metal Fittings on the Top Bench Frame. It helps to have 3 or 4 people helping with this step. **Note: Make sure the Door End is in the correct position.** Tighten eyebolts .



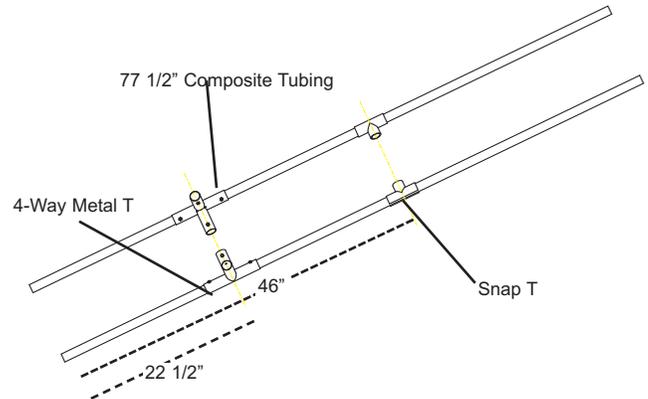
VI. ENDWALLS, LOWER HANGING RODS, & SIDE BENCH FRAMES

Pieces required:

- 2 92" Composite Tubing - Red
- 2 SB-92" Composite Tubing (from Step I)
- 2 77 1/2" Composite Tubing -BLACK
- 2 35 3/4" Composite Tubing -WHITE (Single Slotted)
- 4 1" Screws
- 2 22" Composite Tubes-WHITE (Double Slotted)
- 2 4-way Metal T's
- 2 Metal Corner Posts
- 2 PVC Snap T's

Vertical Endwall Pipes

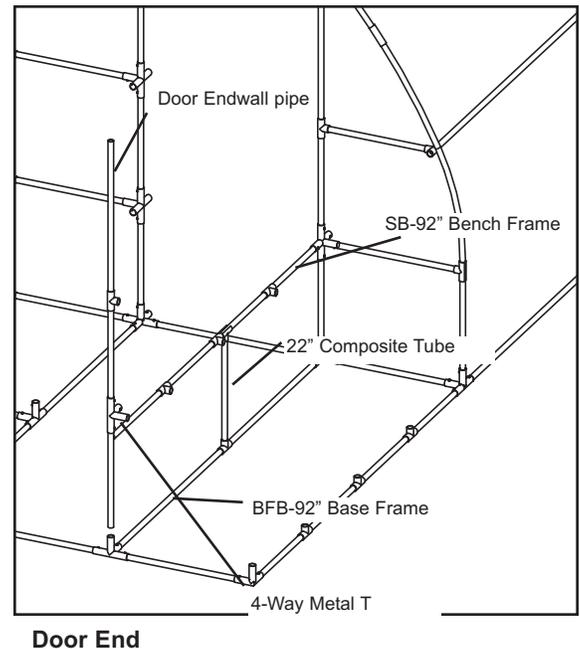
1. Slide a **4-way Metal T** onto two **77 1/2" Composite Tubes** - 22 1/2" from the end. Attach a **Snap T** at 46" from the same end. Make two. These are the Door Endwall pipes.



The next 10 steps will be performed on both sides of your greenhouse. You may complete one side, following the steps below, and then repeat on the other side, or you may make both sides simultaneously.

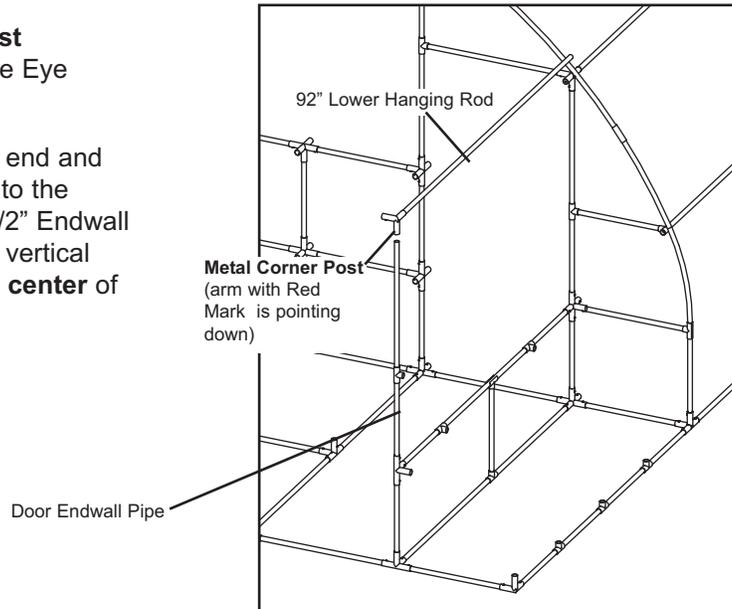
Side Bench Frame.

2. Insert the Door Endwall pipe into the remaining 4-Way Metal T on the Door End of the Base Frame.
3. Glue a 22" Composite Tube into the Snap T on the BFB- 92" Base Frame Pipe.
4. Slide SB 92" Bench Frame Pipe between the 5-way Metal Cross of the adjoining unit and the 4-Way Metal T on the Door Endwall pipe. Glue the open end of the 22" Composite Tube into the Snap T (next to center) on the SB 92" Bench Frame pipe. (Slide the Snap T over if necessary.)
5. Adjust the height of the SB 92" Bench Frame Pipe to 22 3/4" from the top of the base frame to the center of the 5-Way Metal T's and tighten the eyebolts.



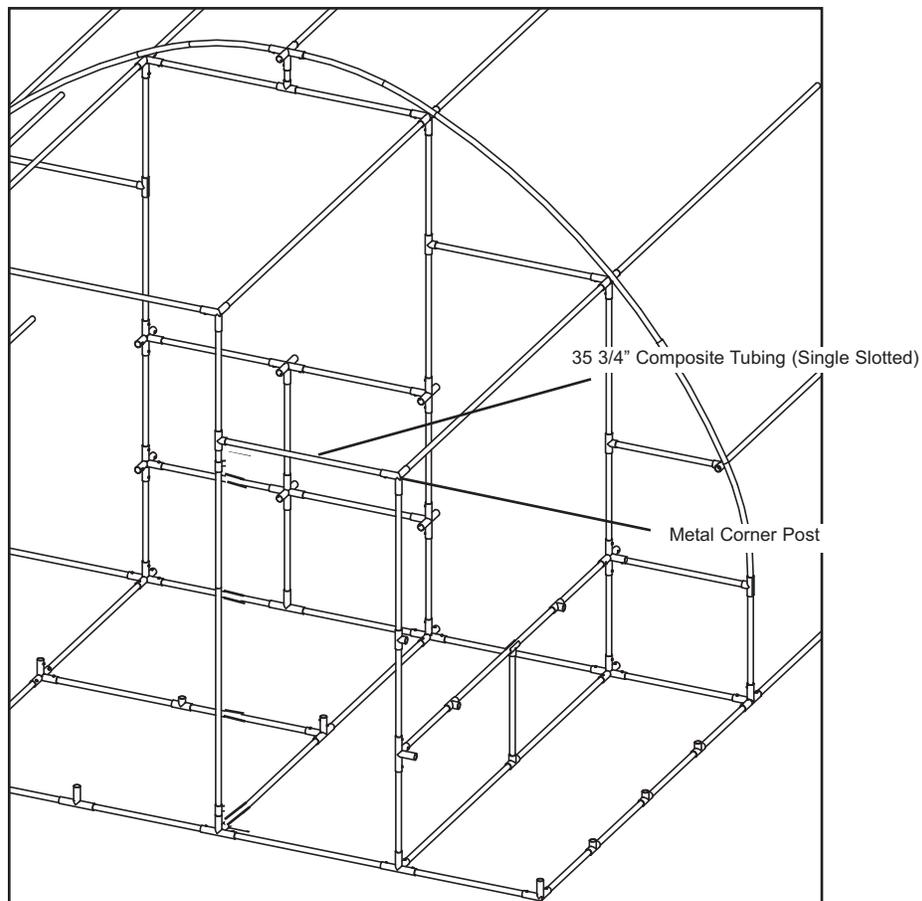
Lower Hanging Rod

6. On a 92" Composite Tube, attach a **Metal Corner Post** (arm with the Red Mark is pointing down). Tighten the Eye Bolts.
7. Mark the opposite end of the 92" tube 2 3/4" from the end and slide this end into the 4-way Metal T of adjoining unit to the drawn line. Set the Metal Corner Post onto the 77 1/2" Endwall Tube, making sure that the post with the Red Mark is vertical (pointing down) and the remaining post points into the **center** of the greenhouse.



Endwall Frames

8. On the Door End, insert a **35 3/4" Composite Tube - single slotted** (make sure it is composite!) into the Metal Fitting on the Lower Hanging Rod. Insert the slotted end of the 35 3/4" tube into the Snap T on the opposite pipe and secure tube into Snap T by attaching a 1" Screw through the Snap T and into the tube. (Adjust Snap T if necessary). Adjust the tube in the fitting so the measurement from inside to center is 36". Tighten the eyebolt. Make sure the 35 3/4" Composite Tube is **level** and attach a 1" Screw through the Snap T to keep to Snap T from sliding. Repeat on the Back End of the greenhouse.

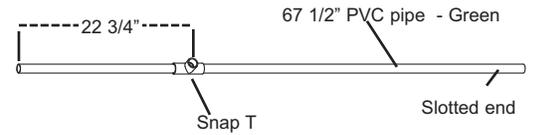


VII. LOWER RIB ATTACHMENTS:

Again, you can complete the steps for one side at a time or you can do both sides simultaneously

Pieces Required:

- 8 67 1/2" PVC Pipes- Green (Single Slotted)
- 8 Snap T's
- 2 18" PVC pipe (1/2" Diameter)

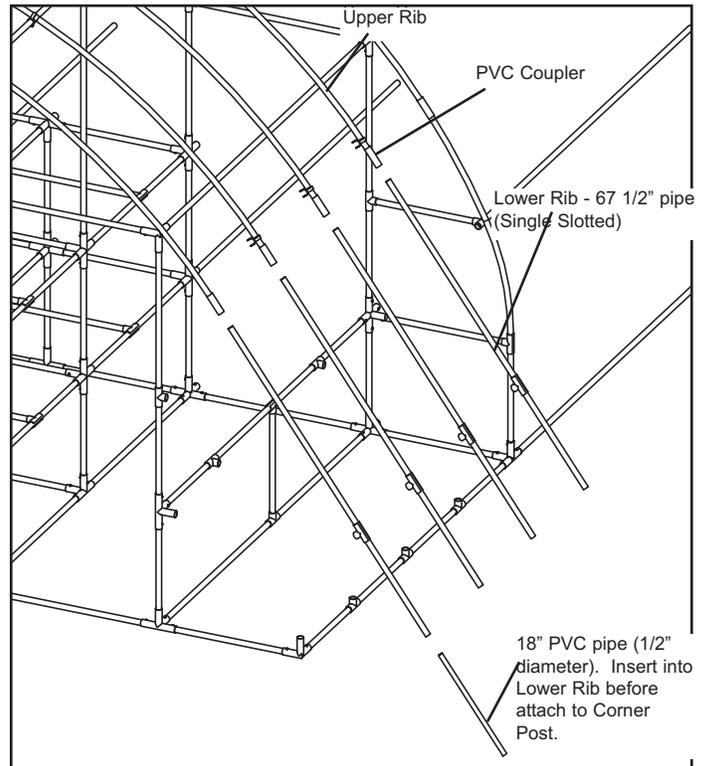


1. **Lower Ribs:** Attach a Snap T to each 67 1/2" PVC Pipe- Green about 22 3/4" from the unslotted end.

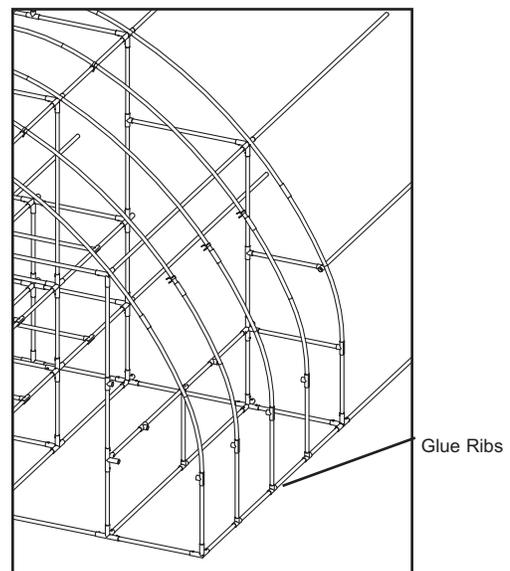
2. Glue the slotted end of a 67 1/2" Lower Rib pipe into each Coupler on the ends of the Upper Ribs. Push Lower Rib in until it hits the Upper Rib pipe. Hold in place about 20 Seconds to make sure the glue sets and the pipe is seated in completely. **Let these pipes set for 15 minutes or so to completely cure.**

3. Insert a 18" PVC pipe (1/2" diameter) into the ends of Rib #1, and then insert the Rib into the Metal Corner Posts. Tighten the eyebolts.

NOTE: Push Lower Ribs all the way into the Coupler. Let glue in Lower Ribs set for at least 15 minutes before attaching them to the base frame.



4. Glue Ribs # 2,3, & 4 to the Snap T's on the Base Frame. Seat in and hold for 20 Seconds.

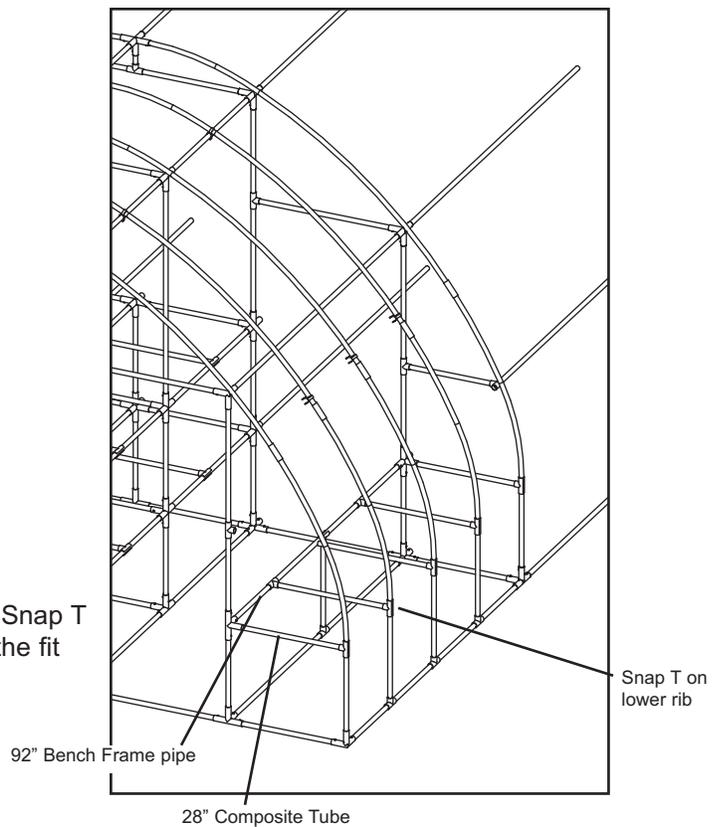


VIII. SIDE BENCHES AND SIDE SUPPORTS

Pieces required:

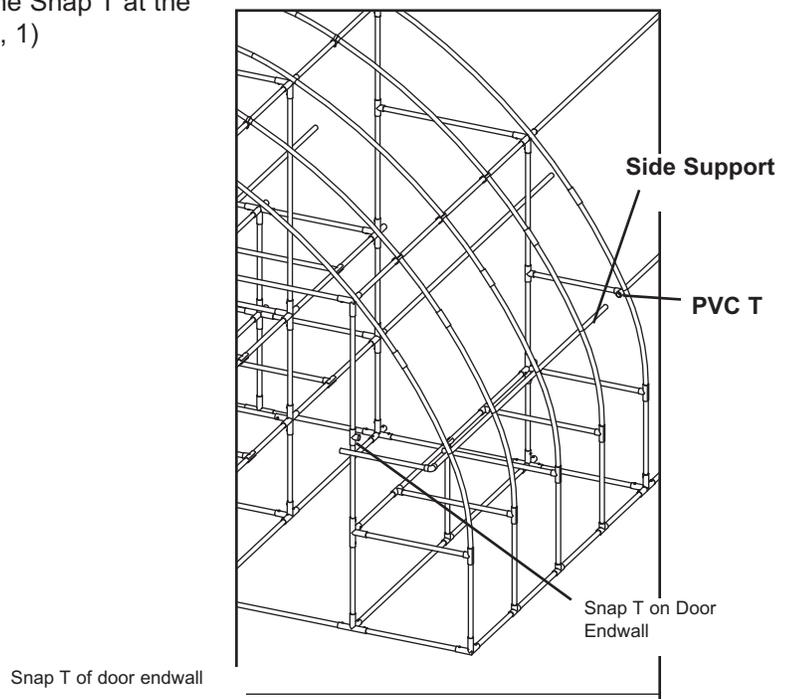
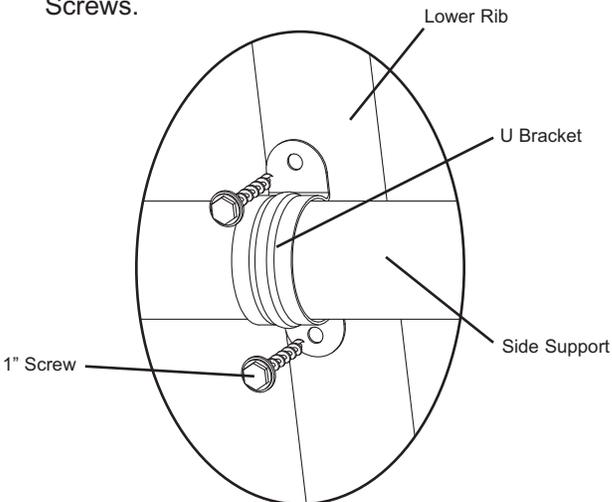
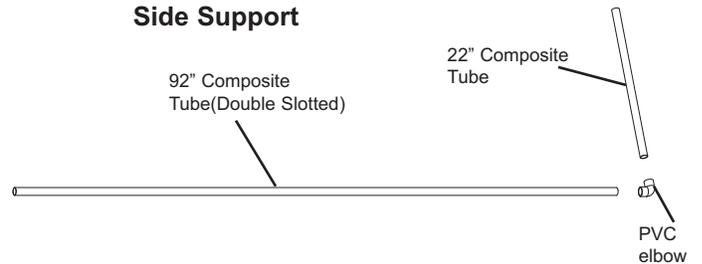
- 8 28" Composite Tube - GREEN (Double Slotted)
- 2 22" Composite Tubes- WHITE. (Double Slotted)
- 2 92" Composite Tubing- Red (Double Slotted)
- 2 90° PVC Elbows
- 38 1" Screws
- 6 "U" Brackets
- 4 Black Zip Ties
- 6 Nuts and Bolts

1. On Ribs # 2,3, &4, attach 28" Composite Tubes between the Snap T's on the 67 1/2" Lower Ribs and the Snap T's on the SB 92" Bench Frame tube, secure with 1" Screws. On Rib #1 insert the 28" Composite Tubes into the metal fitting and attach the opposite end into the Snap T on the Rib. Secure with 1" Screws. Tighten eyebolts on the fittings.
2. Adjust the Snap T's on the Ribs so the bench pipes are **level**. Drive a 1" screw into the top of the Snap T on the 67 1/2" Lower Rib to lock bench in place.

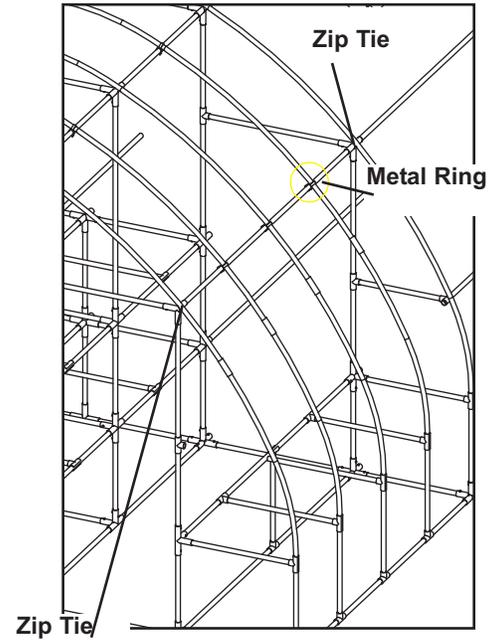


Side Support:

3. Glue a PVC Elbow one end of a 92" Composite Tube (Double Slotted). (make 2)
4. Glue a 22" Composite Tube into the open end of each elbow. This is the Side Support.
5. Attach the open end of the Side Support into the PVC T of the adjoining unit. Attach the other end into the Snap T at the 46" height on the 77 1/2" Door End Wall. (See Step VI, 1)
6. Zip Tie the Side Support to the 1st rib. On the other 3 ribs, fasten the Side Support to each Rib with a "U" Bracket. Attach U Bracket with two 1" Screws.



- On Ribs # 2,3, & 4, slide the Metal Rings up the Ribs to the lower Hanging Rod. Place "U" portion of the Metal Ring over the Hanging Rod and secure with nuts and bolts. Attach Rib #1 to the Metal Fittings on the ends of the Hanging rods using Zip Ties.



ENJOY YOUR NEW GREENHOUSE!

P.S. Please share with us any ideas you have on improving our greenhouse instructions. Pictures are appreciated.
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