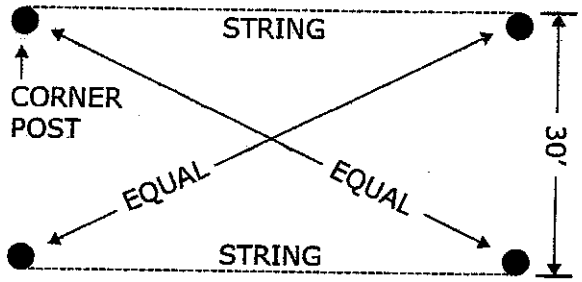
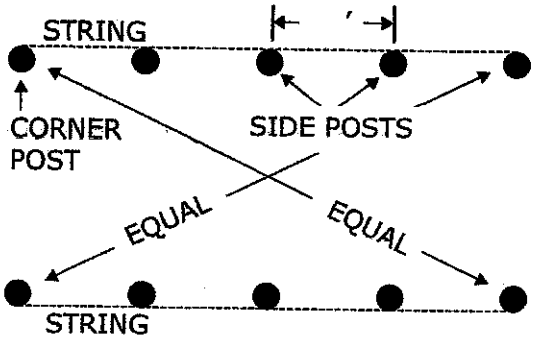
Step 1 POSTS



A Pound in all four corner posts first.

Make sure cross measurements are equal. All posts should be 36 inches into the ground. If you want the greenhouse level, use a transit to pound each corner post down to the same level.

String a line before pounding in the side posts. Use block line or fishing line and fasten to corner posts on each side.

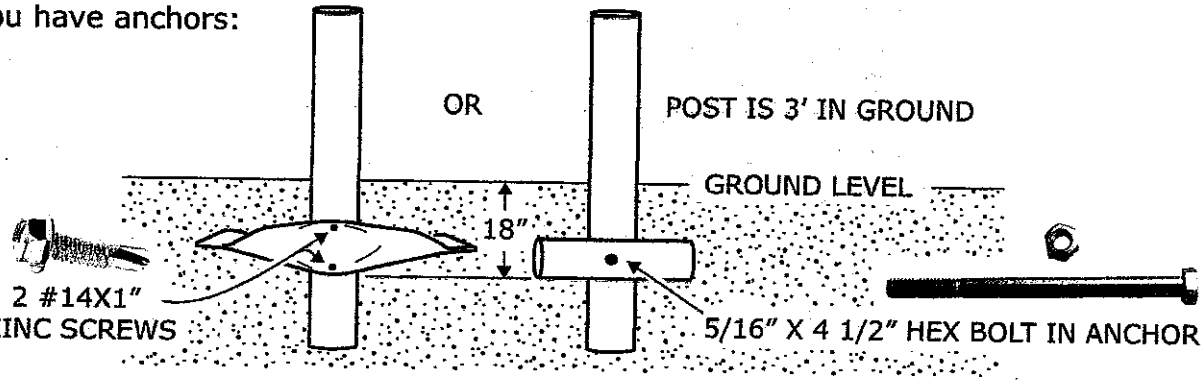


B Pound in side posts.

IMPORTANT! *Set all posts accurately, otherwise the top of the greenhouse may zigzag.*

POST POUNDER

If you have anchors:



Use anchors for each post. If your greenhouse comes with anchors, use anchors on all posts. Dig 18 inches or use a 12 inch auger (but do not dig more than 20 inches or the post may sink). Use this hole to let the anchor down. Then drive posts the rest of the way using a post pounder or a 4x4 block of oak wood to protect the top of post.

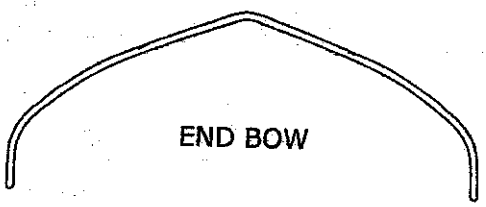
Step 2 FRAME ASSEMBLY

IMPORTANT! *Wear gloves when handling or assembling frames.*

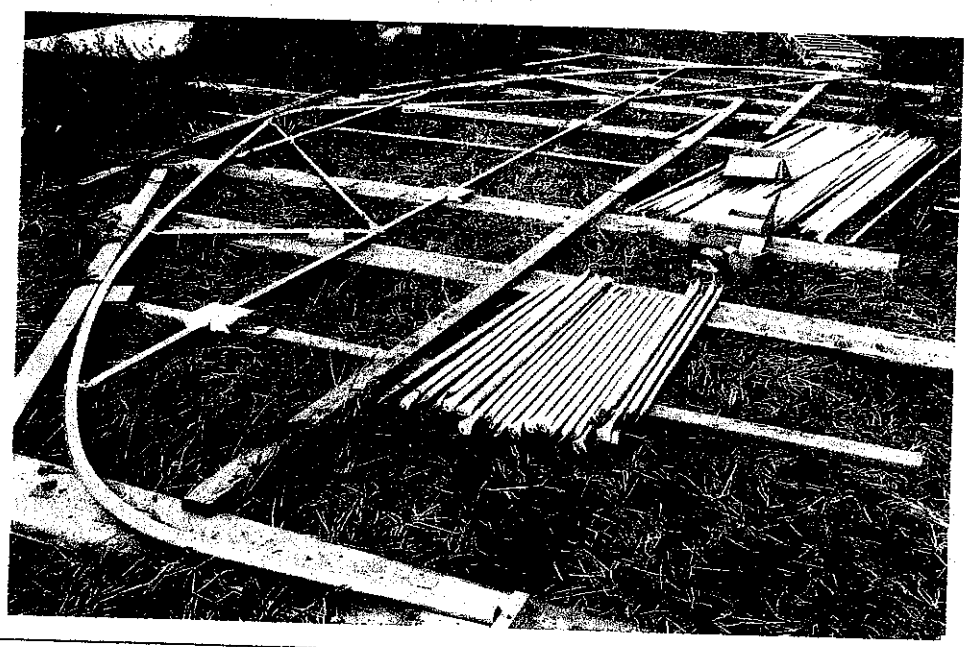
#12X1" RT GALV.
SELF DRILL SCREW

A Start with the bow. Lay the pieces on the floor. Then use 3 self drill screws at each joint, keeping screws on lower side (away from plastic covering).

Caulk all the way around bow joint to keep moisture out and protect plastic from getting cut.



B Keep 2 bows without the bracing for end bows.



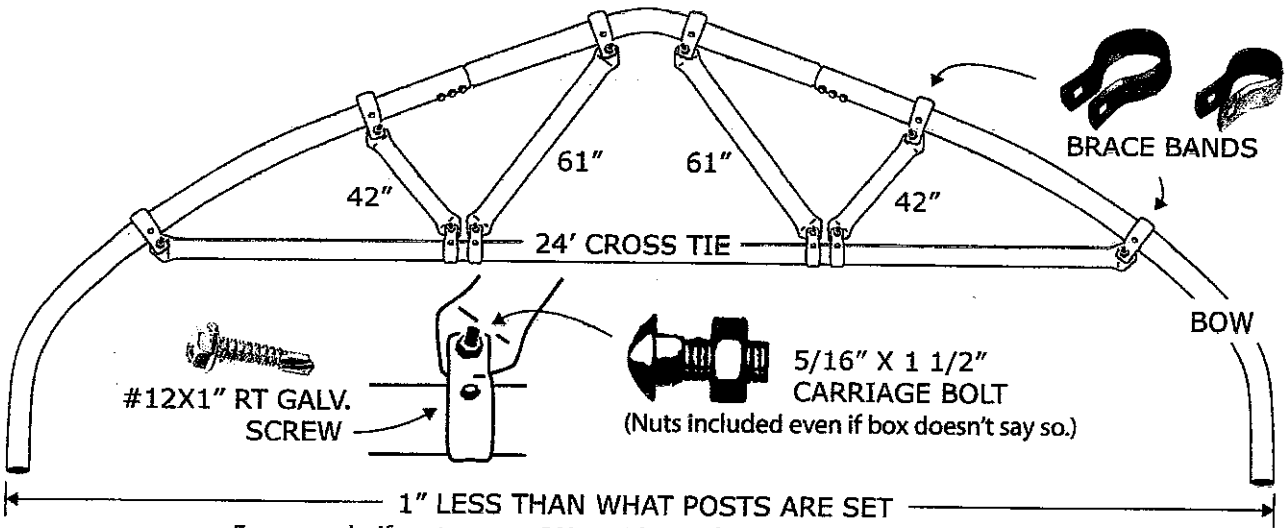
One way to assemble frames.

Step 2 FRAME ASSEMBLY CONT'D.

C Add bracing. Mark each frame L & R for left and right. Then set aside all frames the same way to avoid a zigzag effect.

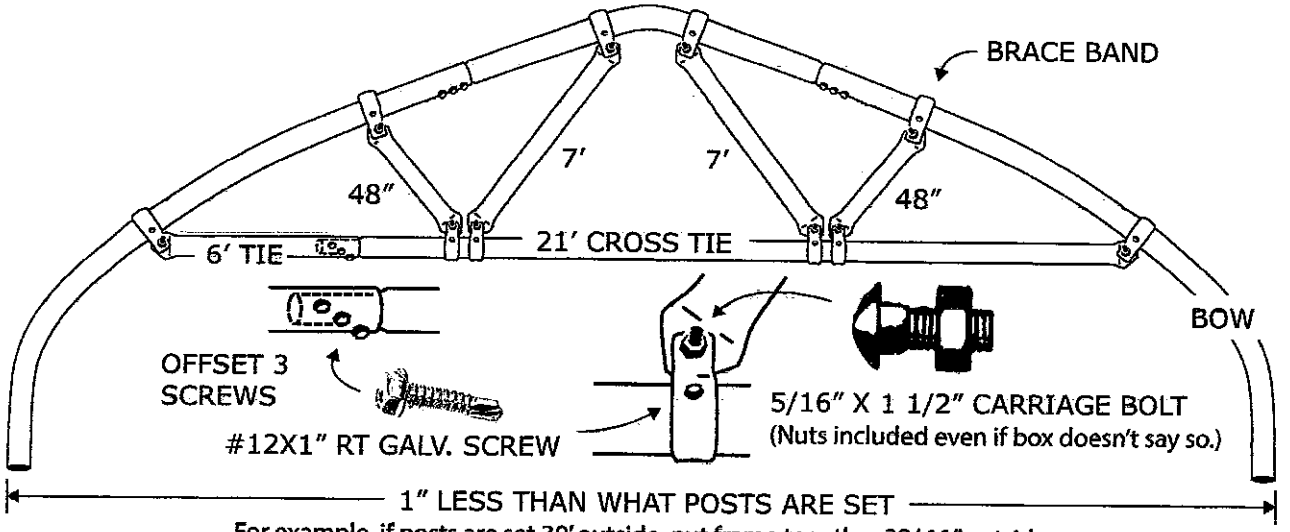
Important! *Put baseboards on before setting bows, see Step 3.*

What cross tie do you have?
Top drawing is for 1-piece cross tie.



For example, if posts are set 30' outside, put frame together 29' 11" outside.

Bottom drawing is for 2-piece cross tie.

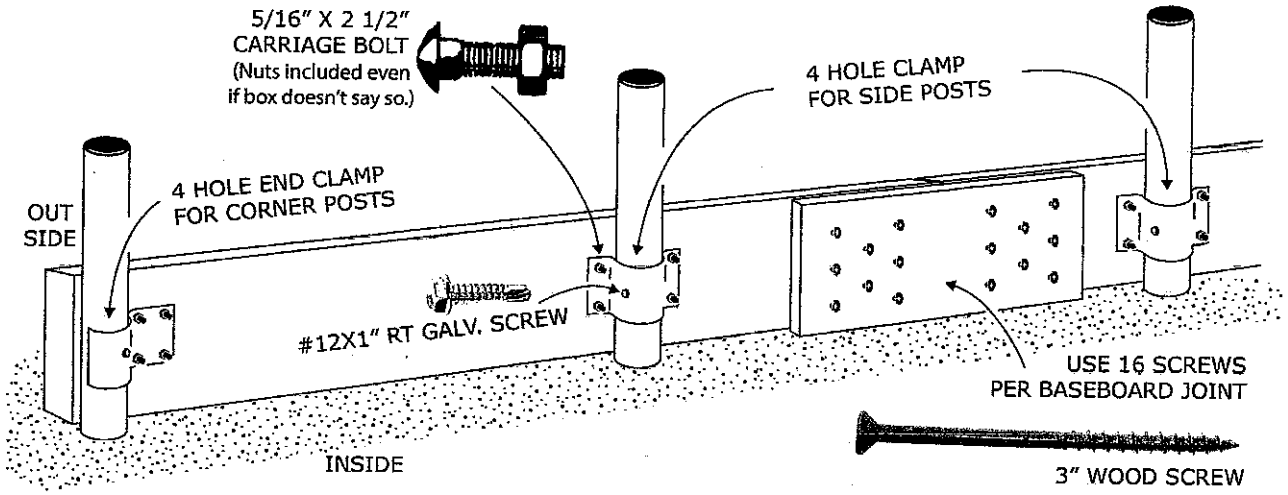


For example, if posts are set 30' outside, put frame together 29' 11" outside.

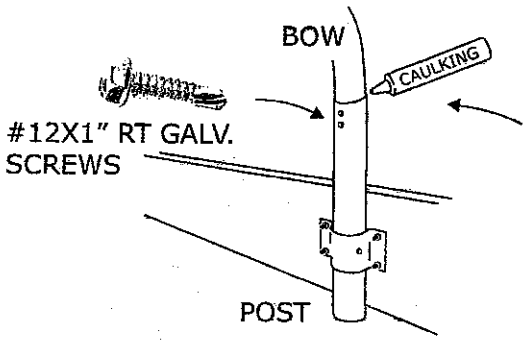
Step 3 BASEBOARDS

Clamp baseboards to posts. Have baseboards in ground 1 inch. When using curtain lock, use 2′ x 10′ baseboards.

Important! *Put baseboards on before setting bows.*



Step 4 SET BOWS



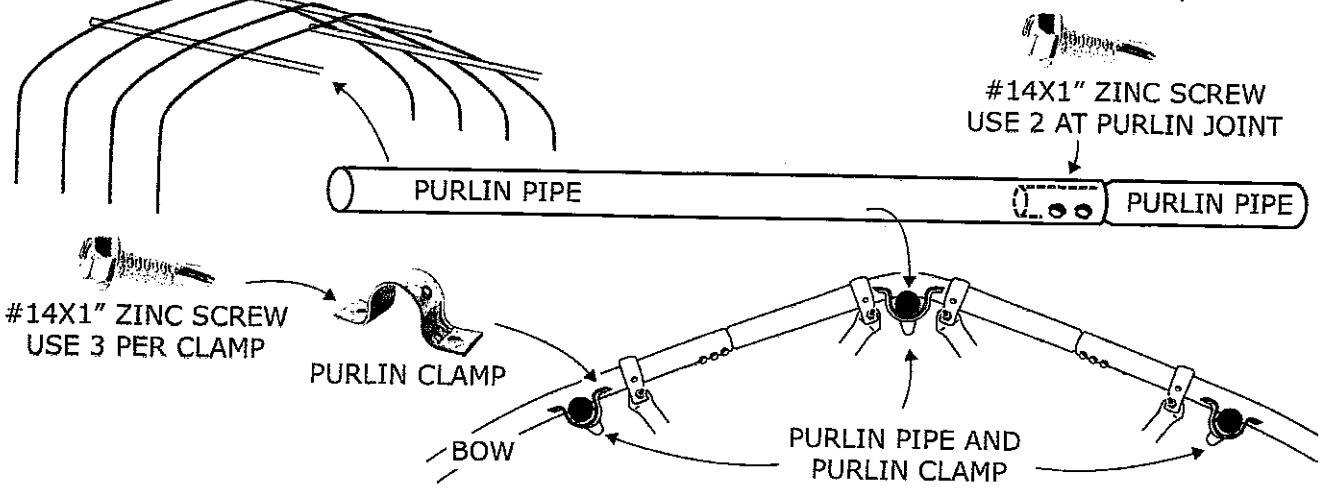
Fasten bows to posts. Make sure an end bow is at each end.

Caulk all the way around to keep moisture out.

Step 5 INSTALL PURLINS

Important! *Use zinc (Z) screws for Purlin clamps, NOT stainless steel (SS) screws.*

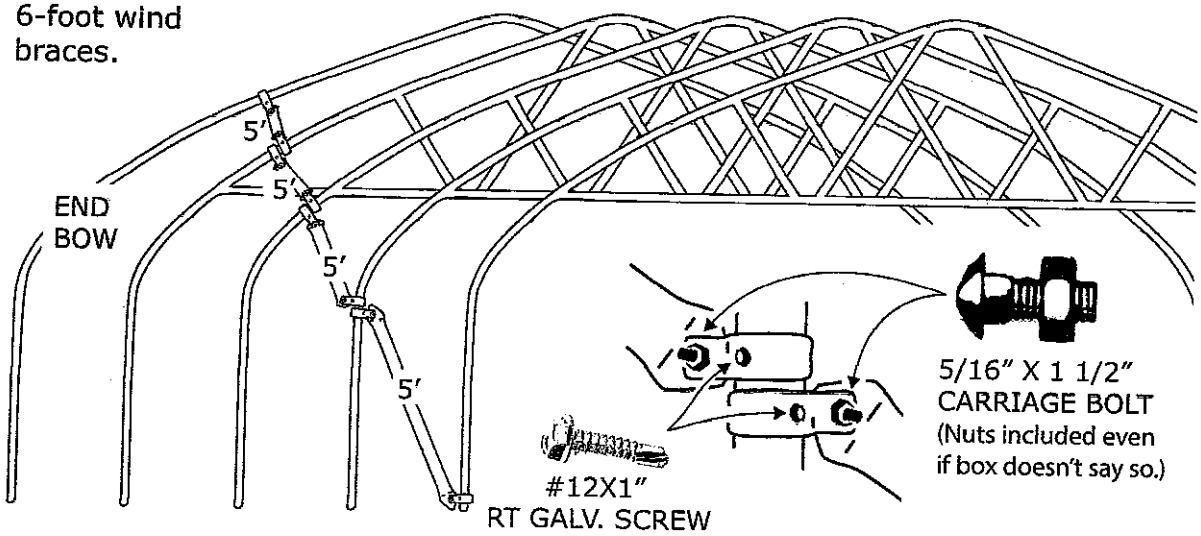
Install Purlin pipes along full length of structure. If you have 2 different lengths of Purlin pipe, keep longer ones for roll-up.



Step 6 WIND BRACES

Attach wind braces at each corner, usually 4. If bows are 4 feet apart, you will have 5-foot wind braces. If bows are 5 feet apart, you will have 6-foot wind braces.

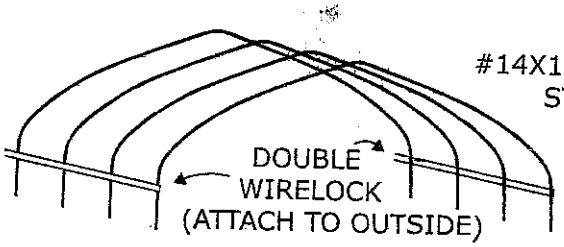
Important! *Count braces before installing. If you have longer posts there may be more braces.*



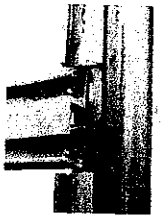
Step 7

DOUBLE WIRELOCK

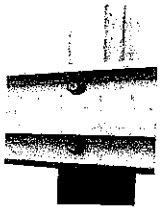
Install double wirelock however high you want your curtain. Most people prefer to have the curtain just below the bend.



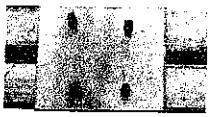
#14X1" STAINLESS STEEL SCREW (3/8" HEAD)



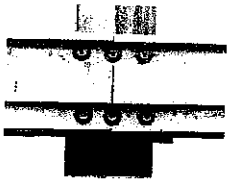
Double wirelock at end bow



Double wirelock at bow



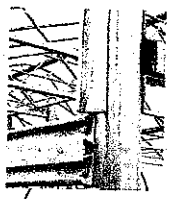
Double wirelock splicer plate (front and back)



Double wirelock splice at bow

Step 8

SINGLE WIRELOCK

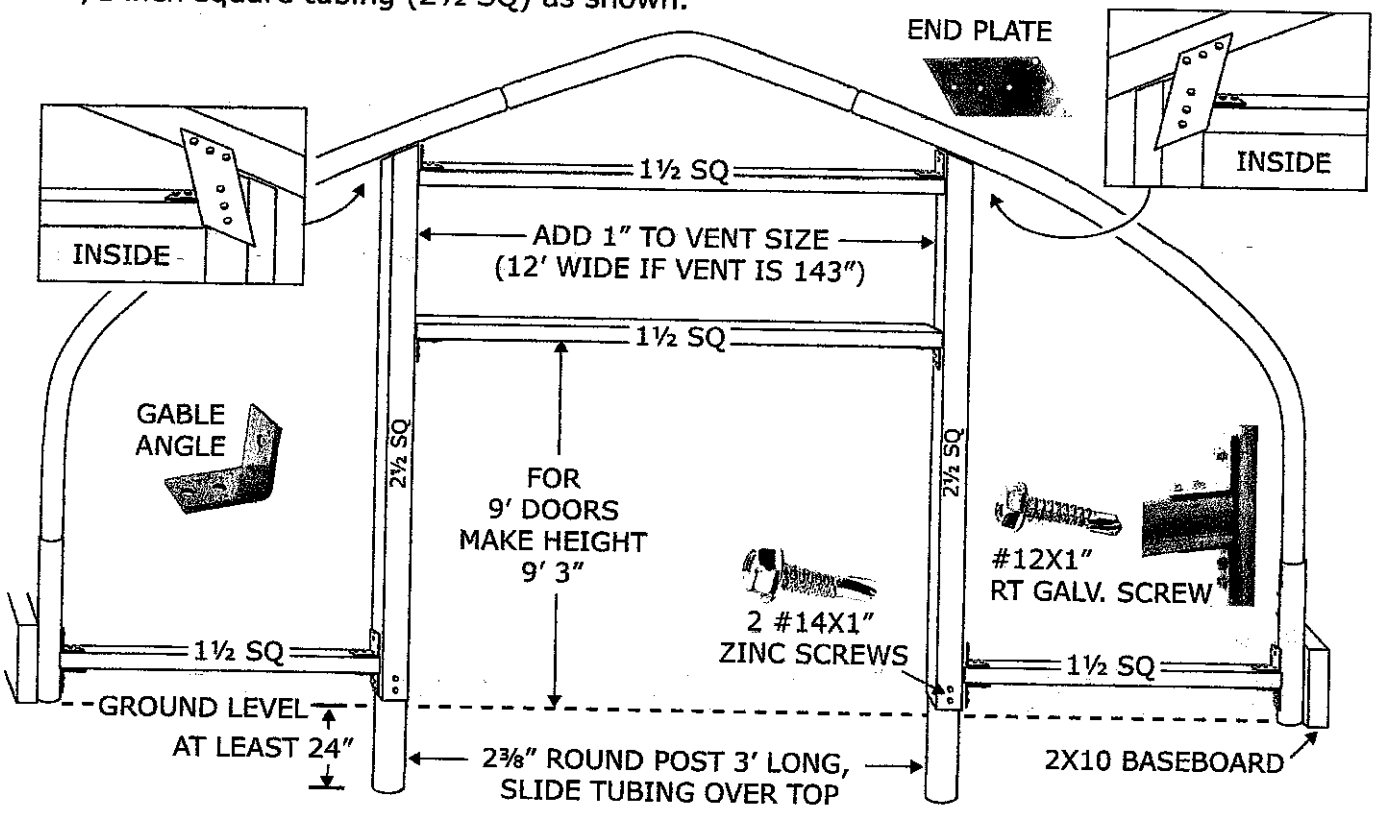


Fasten single wirelock on top of bow using #12x1" Rt Galv. screws every 10 inches.

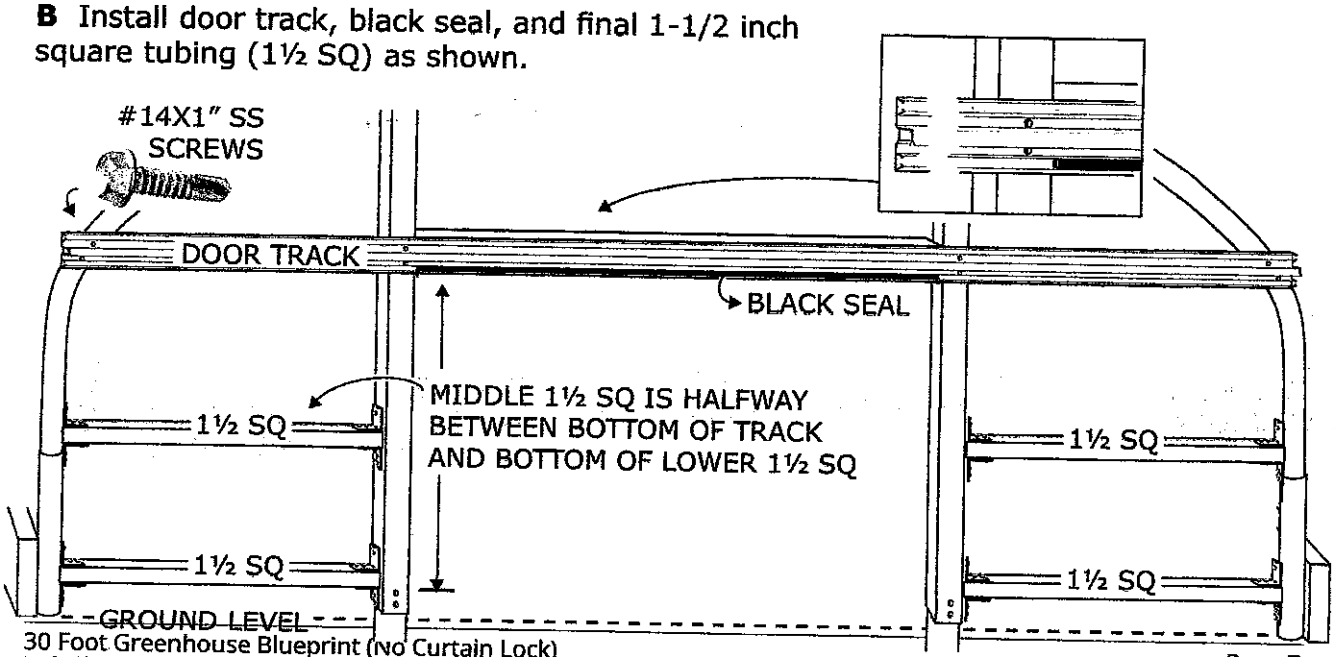
Step 9

STEEL END WALLS

A Install 1-1/2 inch square tubing (1½ SQ) and 2-1/2 inch square tubing (2½ SQ) as shown.



B Install door track, black seal, and final 1-1/2 inch square tubing (1½ SQ) as shown.

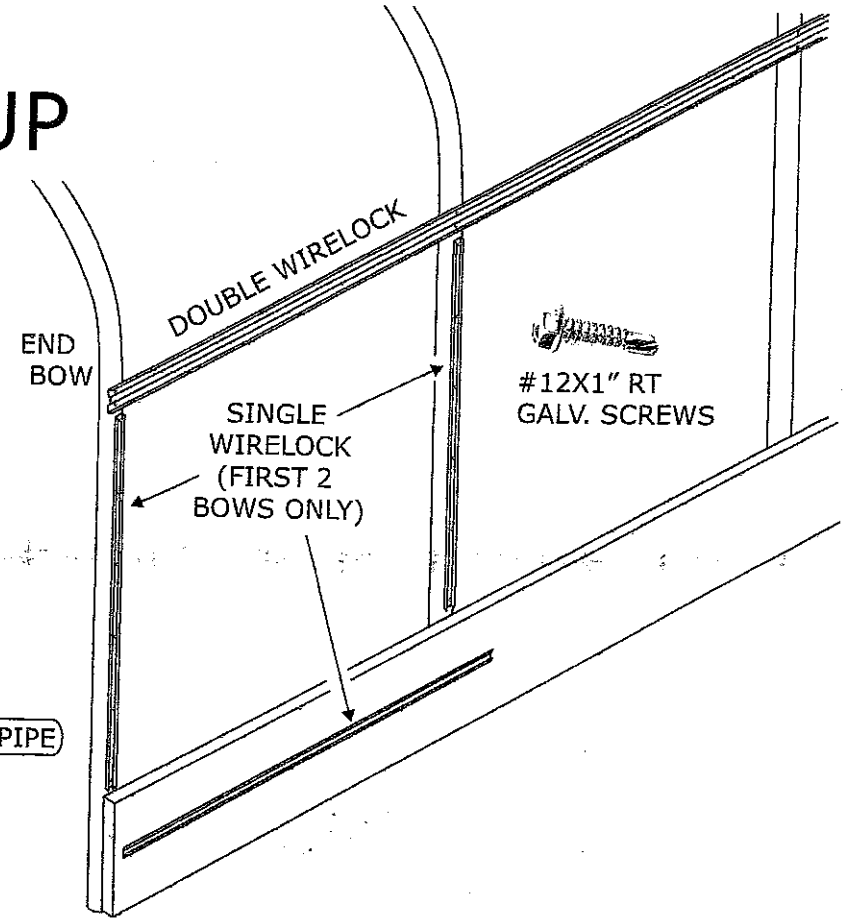


Step 10

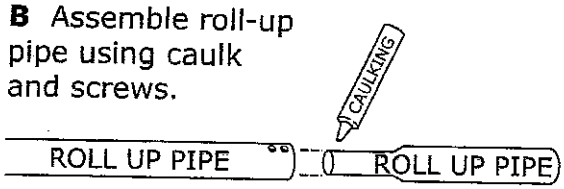
ROLL UP

A Attach wirelock to first 2 corner bows as shown.

Attach wirelock along baseboard between first and second bow as shown.



B Assemble roll-up pipe using caulk and screws.

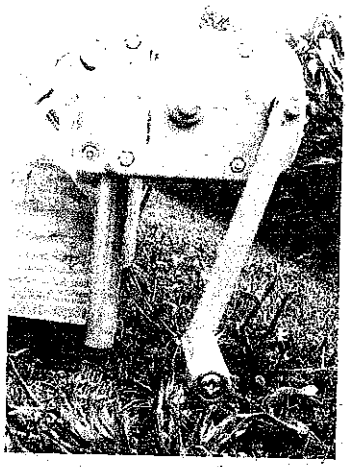


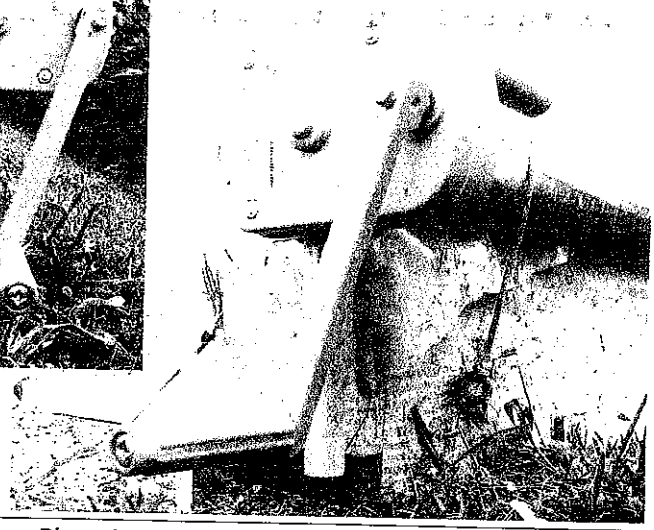
Step 11

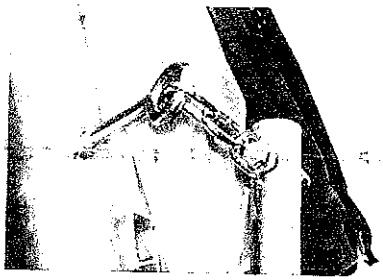
ROLL UP CRANK

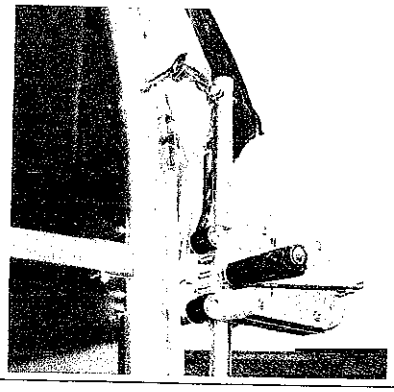
A Assemble orange crank and guide pipe. Attach guide pipe to end bow as shown.

Bottom of guide pipe should not touch the ground.







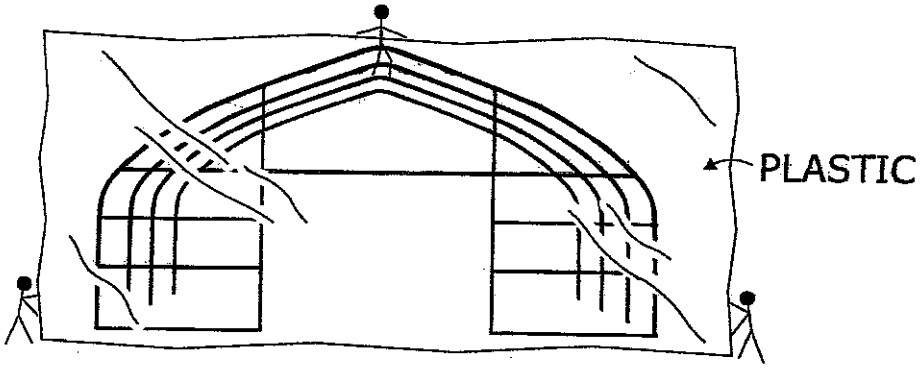


Step 12 GABLE END PLASTIC

A Stretch plastic against gable end as shown.

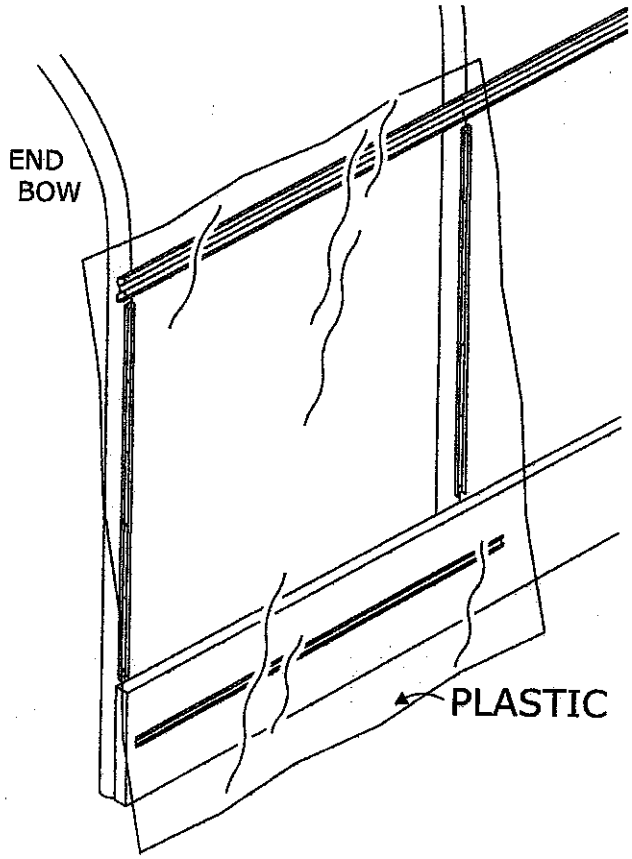
B Fasten plastic to single wirelock. Use 1 wiggle wire in all channels. Consider burying bottom of plastic to seal instead of cutting off.

Important! *Do NOT attempt to attach plastic on windy days.*



Step 13 CORNER PLASTIC

Attach corner plastic using leftovers from gable end plastic. Do not over tighten at bottom.



Step 14

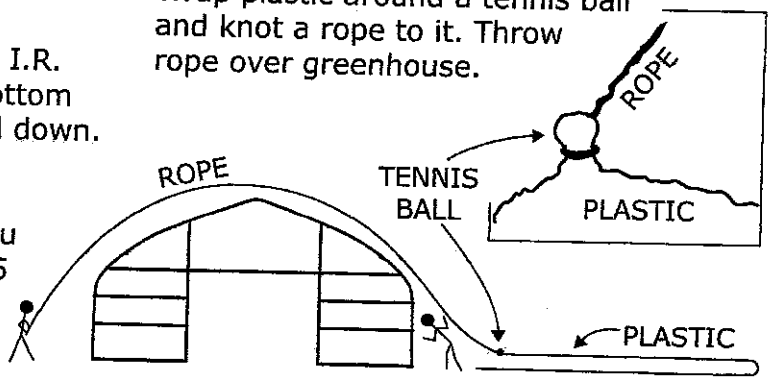
ROOF PLASTIC

A Stretch plastic over greenhouse.

When using 2 layers of plastic, use I.R. Dripless (I.R.A.D. SunSaver) for bottom layer, with writing on plastic turned down. For top layer, use SunCover Clear.

For a 100 foot long greenhouse, you need 6 people, 5 tennis balls, and 5 ropes. One person will stand under the plastic to help it start up over the framework, as shown.

Wrap plastic around a tennis ball and knot a rope to it. Throw rope over greenhouse.

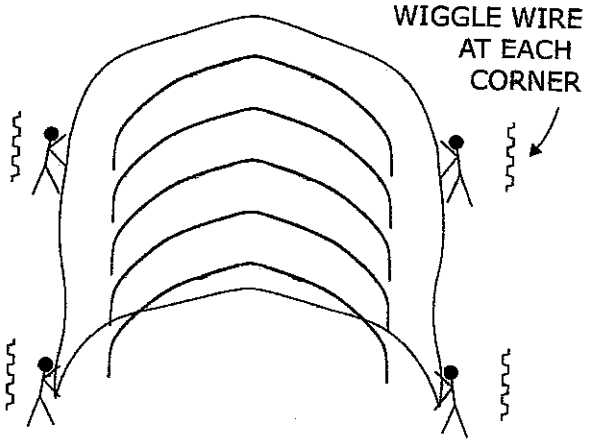


Fold plastic in half with both ends beside greehhouse.

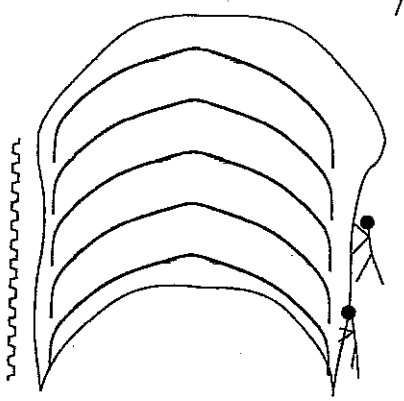
Important! *If using 1 layer of plastic, overlap wiggle wire or put wiggle wire in both channels of double wirelock.*

B Stretch first layer of plastic **very tightly** and snap wiggle wire into wirelock along sides. Put 1 wiggle wire at each corner first (in double wirelock, either top or bottom channel).

If weather is cold, fasten second layer of plastic very tightly as well, otherwise just snug. Wirelock holds up to 4 wiggle wires at one time.



C Finish wiggle wire on one side.



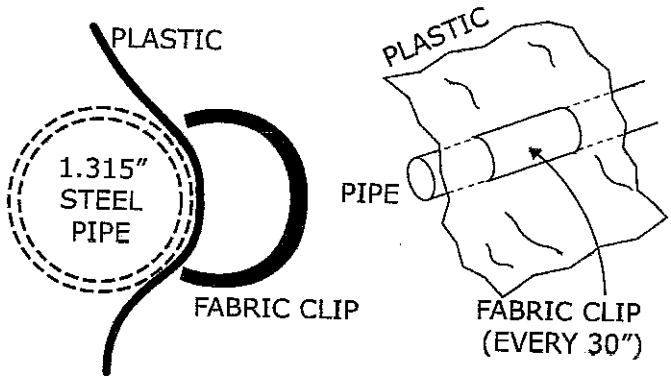
D Finish wiggle wire on other side, with someone holding plastic **very tightly** 6 feet ahead of person putting in wiggle wire.

E Fasten plastic to end bow last.
F Repeat above for second layer of plastic.

Step 15 FABRIC CLIP

A Snap fabric clip to roll up pipe every 30 inches.

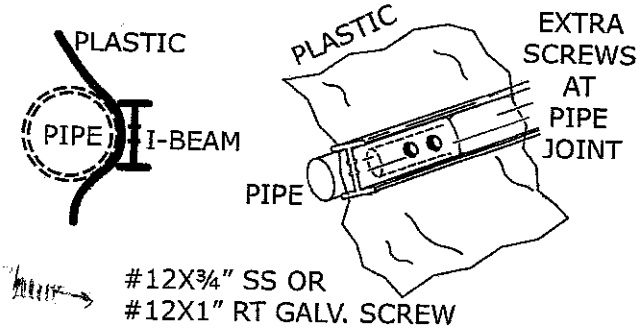
Be sure plastic is pulled down tight with the same tension all the way.



OR

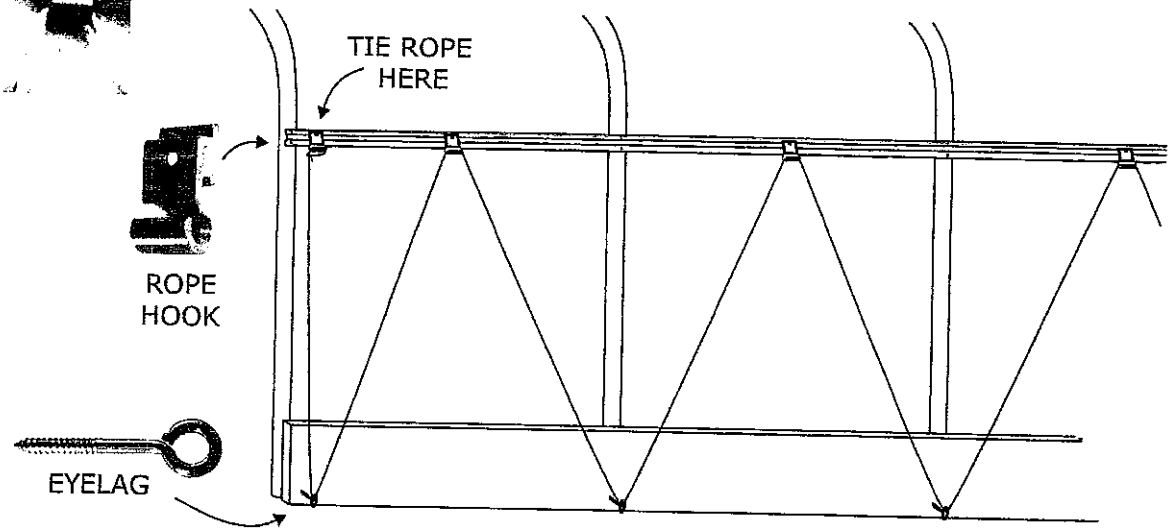
A If your kit comes with an I-beam instead of fabric clips, attach I-beam to roll up pipe. Make sure to have 3 screws at pipe joint.

Be sure plastic is pulled down tight with the same tension all the way.



Step 16 WIND ROPE

Attach eyelags at each bow and rope hooks between each bow. String rope, tying to extra rope hooks at each end.



Step 17

INFLATOR FAN

A Attach fan inside greenhouse ceiling between 2nd and 3rd bow. Stay 5 feet away from wirelock on all sides.

Cut an "X" 1 inch smaller than fan. Cut in bottom plastic layer only.

B Fold flaps around fan and seal with electrical tape.

C If you have a 12 volt fan, cut off the plug end. There are 3 wires - attach the red wire to positive and the black wire (high speed) to negative. Do not use blue wire (low speed negative) unless your greenhouse is 72 feet or shorter.