



## Assembly Instructions

*Slant-Roof Greenhouse™*

*XL Slant-Roof Greenhouse™*



**Help Text-line:** 512-334-6610

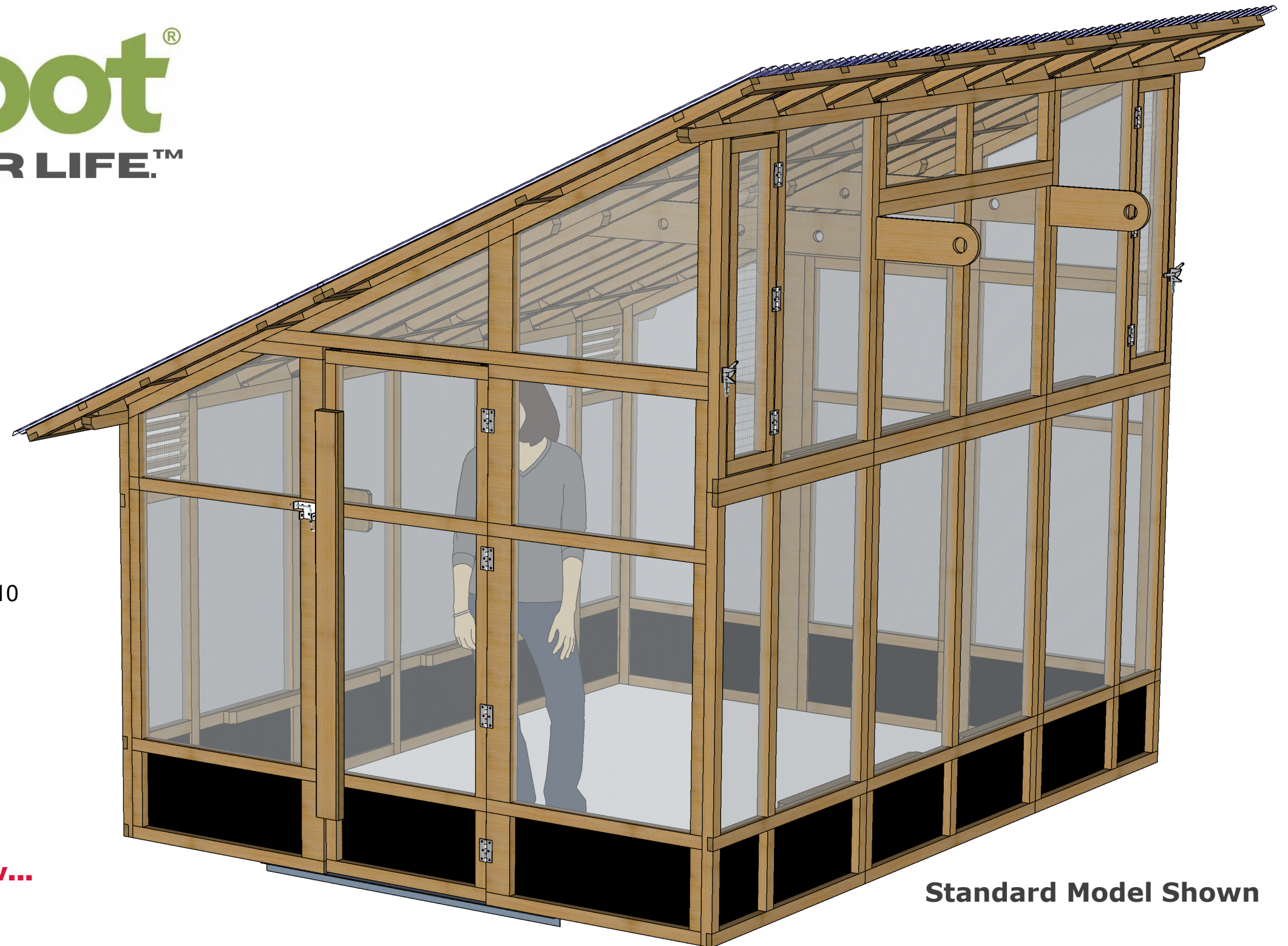
**EMAIL:** [support@roostandroot.com](mailto:support@roostandroot.com)

**VOICE:** 877-741-2667

Assembly Support ext 3

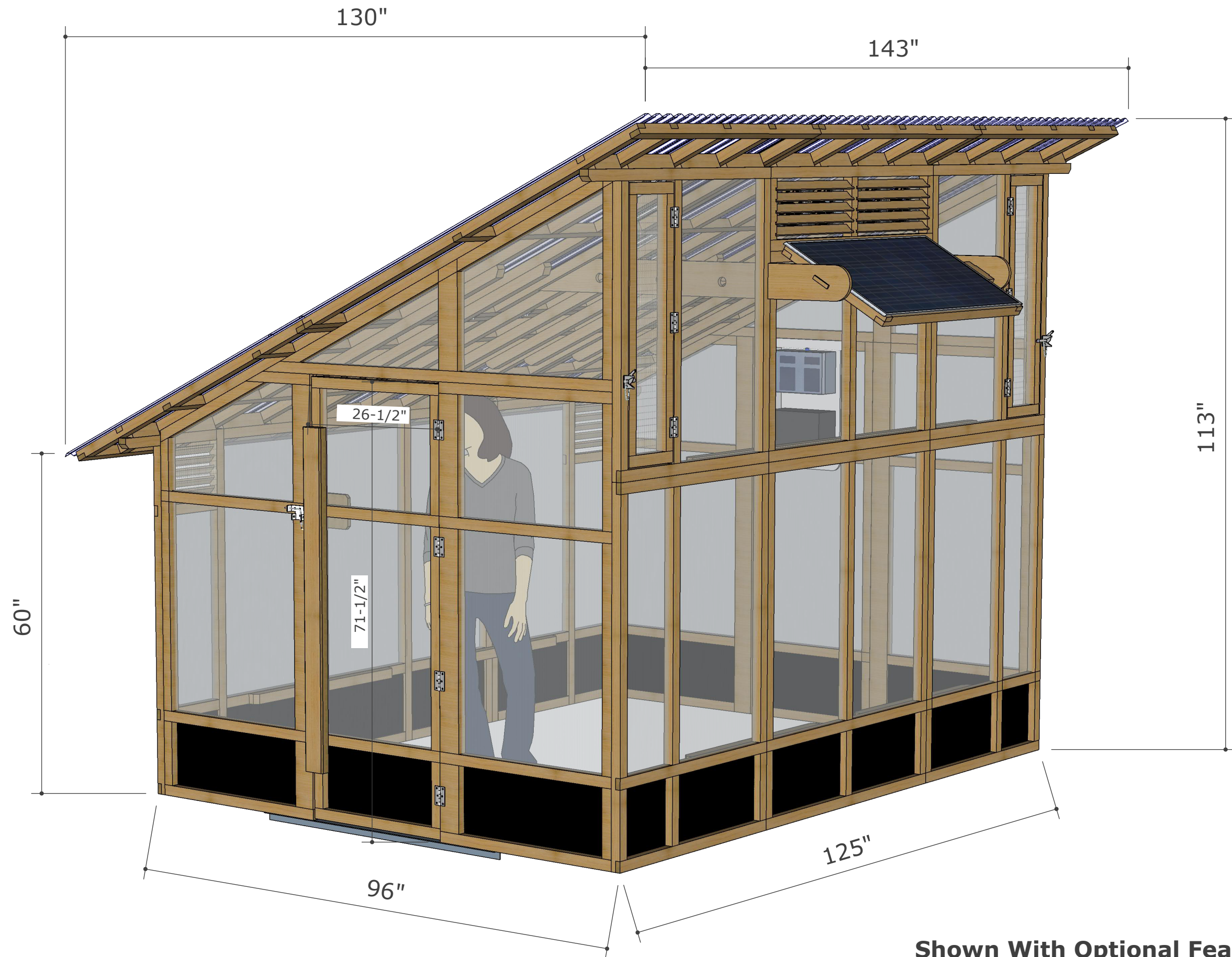


**Assembly Overview...**



**Standard Model Shown**





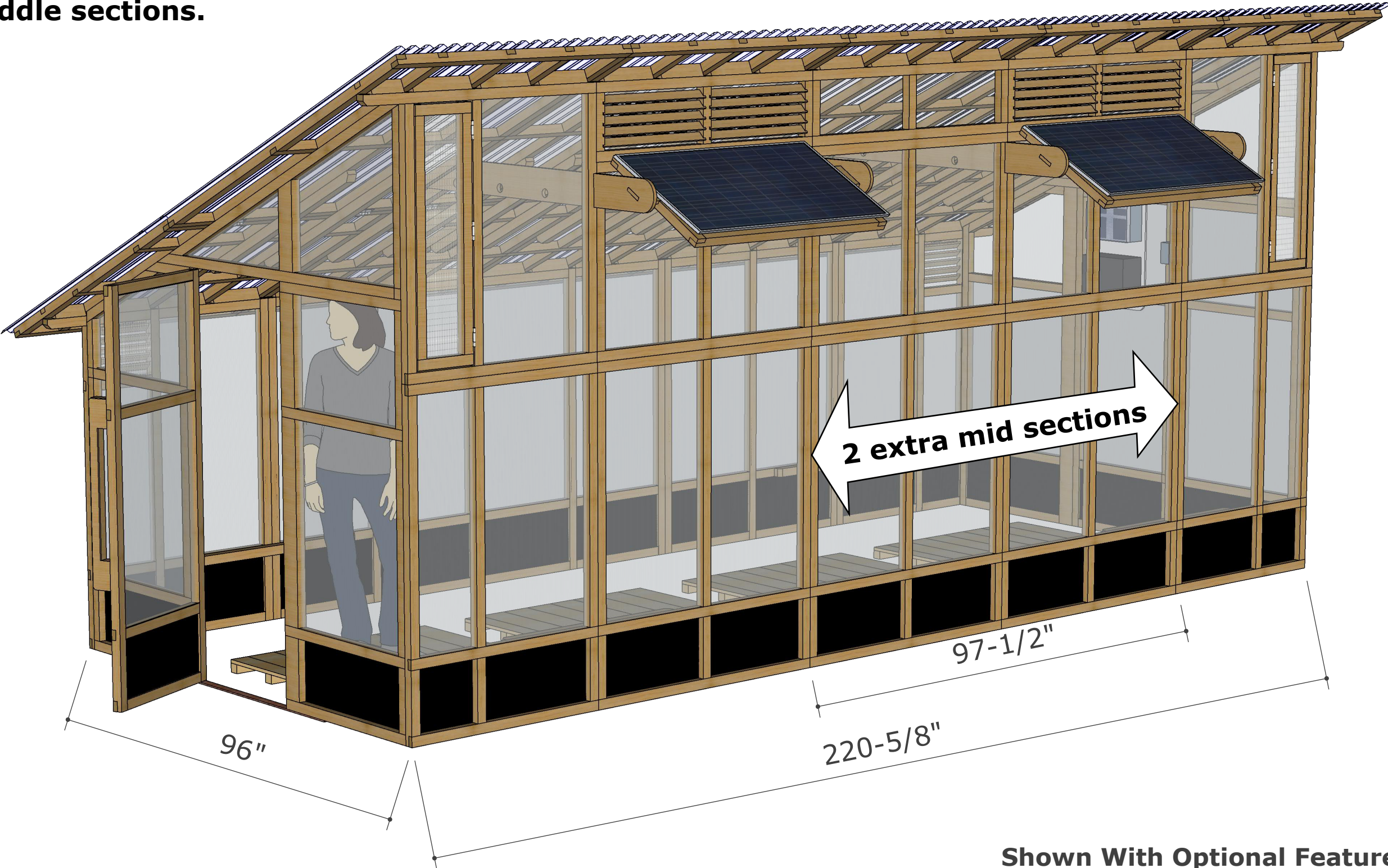
Shown With Optional Features





Assembly of the XL Model is identical to the Standard Model but for the addition of two more middle sections.

XL Model notations will be in yellow circles.



Shown With Optional Features





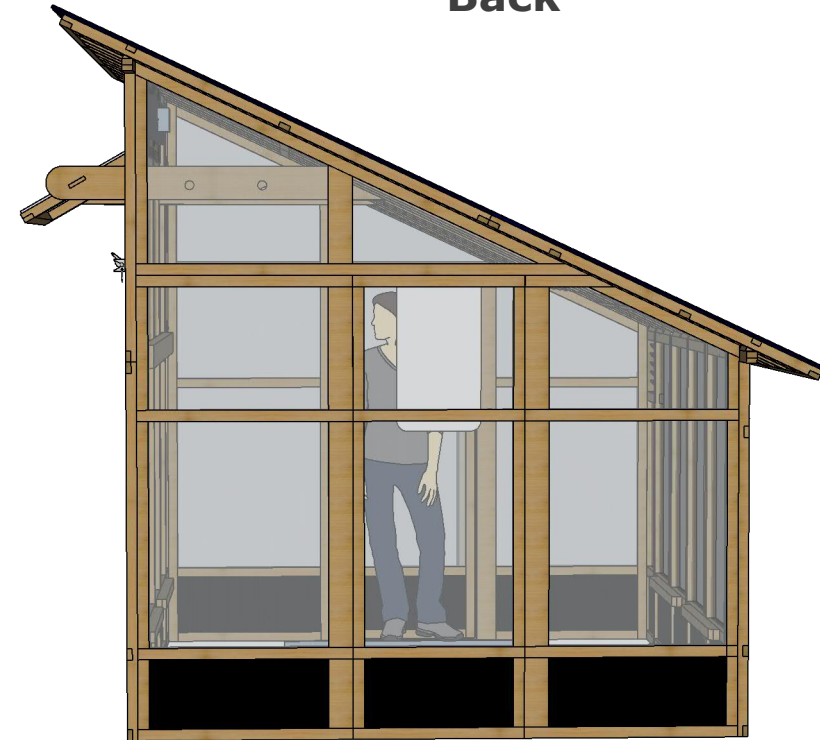
Front



Back



Left



Right



# What to expect...

Understanding these concepts / conventions will help guide you through the instructions and help to set expectations...

- Mating edges of parts to be flush and tight (when called for) will keep measurements in tolerance as the greenhouse grows in size. By flush we mean to align edges.  
Having a flat area is required for the greenhouse to assemble properly. Any humps will telegraph into wall straightness. We estimate about 12 man hours (6-8 hours for 2 people) of ordinary skills to assemble. Two strong people are required for several steps.  
You will need a drill (preferably cordless) a tape measure and a hammer. Everything else is provided.  
Drive screws only deep enough to hold parts tight and not bury the heads too deeply as water will sit in the divots and it may cause softening of the wood and prematurely loosen screws. It will also greatly decrease your ability to easily disassemble a part if needed.
- You may end up directly driving in a screw. The provided screws are very aggressive and will drive with no pre-drilled hole. Keep screw entry points in the meat of the wood and not too close to edges. Screws in knots or close to edges should be pre-drilled.
- Rough cedar may have knots, cracks or frays that are normal. We cull and cut around most imperfections we deem structurally problematic during fabrication. If you get a part that you feel is not beautiful, please let us know so we can address your concern. Cedar naturally varies quite a bit.
- We hand fabricated your greenhouse with human carpenters. We work really hard to not make mistakes. On the rare occasion that we either misfabricated a part, a part was damaged in shipping, or we forgot to package a needed part, contact us and we will ship out a replacement part for you at no cost.
- It is common for rough cut cedar to vary in size by up to 1/8 inch and to shrink and swell by up to 1/8 inch when wet and dry. It is normal for edges to not perfectly line up and shrink and swell during periods of heavy rain or snow cover. We endeavor to leave gaps in the design to accommodate the normal shrinkage and swelling that occurs over the course of the year.
- You should wash the panels and the roof of your greenhouse at least semi annually with a mild detergent and water for best lifespan clarity performance of the polycarbonate panels. We do not recommend sealing the cedar with anything other than a Siloxane Sealer product adhering to the manufacturers instructions for reapplication.



This note icon is used to bring something extra important to your attention



## Please Be Careful



Designed to be assembled by two strong people of ordinary skill.



Any building material can have sharp edges. We attempt to knock off sharp edges when possible during fabrication. You must be the final determiner of sharp edges. A standard file from your hardware store, or snips can be used to make edges to your standards. You may choose to wear a pair of work gloves while assembling this product for extra protection. Wood, being what it is, can also have splinters.



Spending the time up front to identify all the parts and lay them all out will pay off in the long run and make assembly go more smoothly. The instructions are intended to be read in page order as the information builds in that way, then referenced during assembly. Pre-reading the instructions will help immensely.



Be careful not to get caught inside your greenhouse. Children should not play in the greenhouse. If you decide to install some inside closure device, keep children in mind.



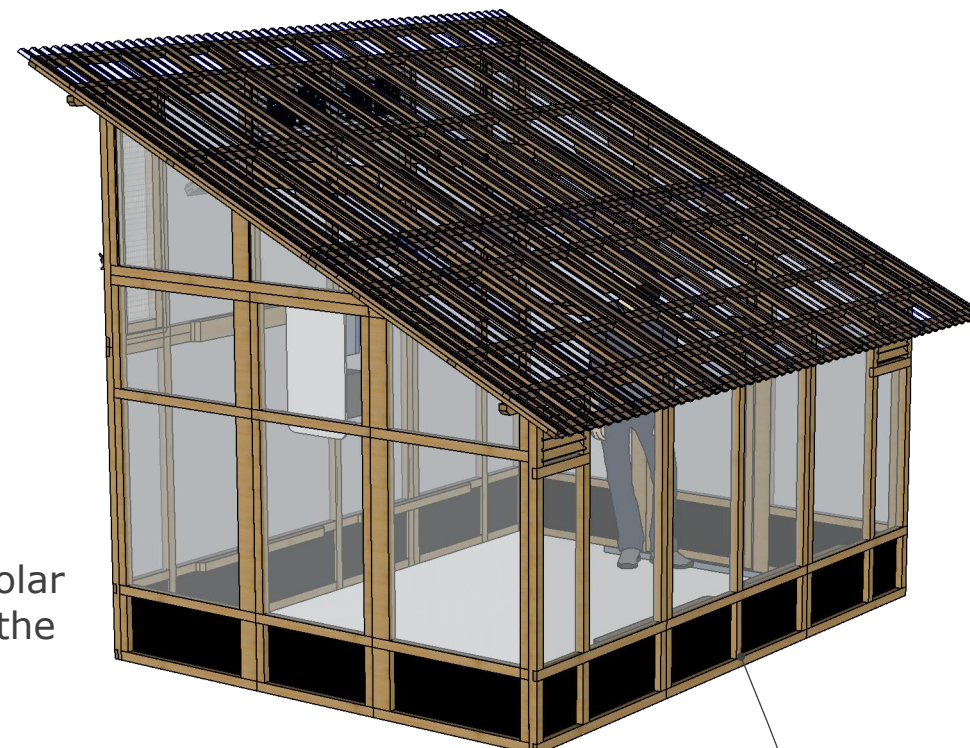
The roof has been load tested with more than #1000 of weight and a #200 man. **But we do not intend on you being up on the roof.** It will not reach its full strength until after full assembly and at 25° it is extremely steep. We use a unique preassembled scissor style folding roof design that allows you to place the roof from the ground. It will take two strong people... maybe 3 if you're not comfortable working with weight. If you decide to work from a ladder, be mindful of your balance and weight load. **You should keep snow and ice loads cleared from the roof.**



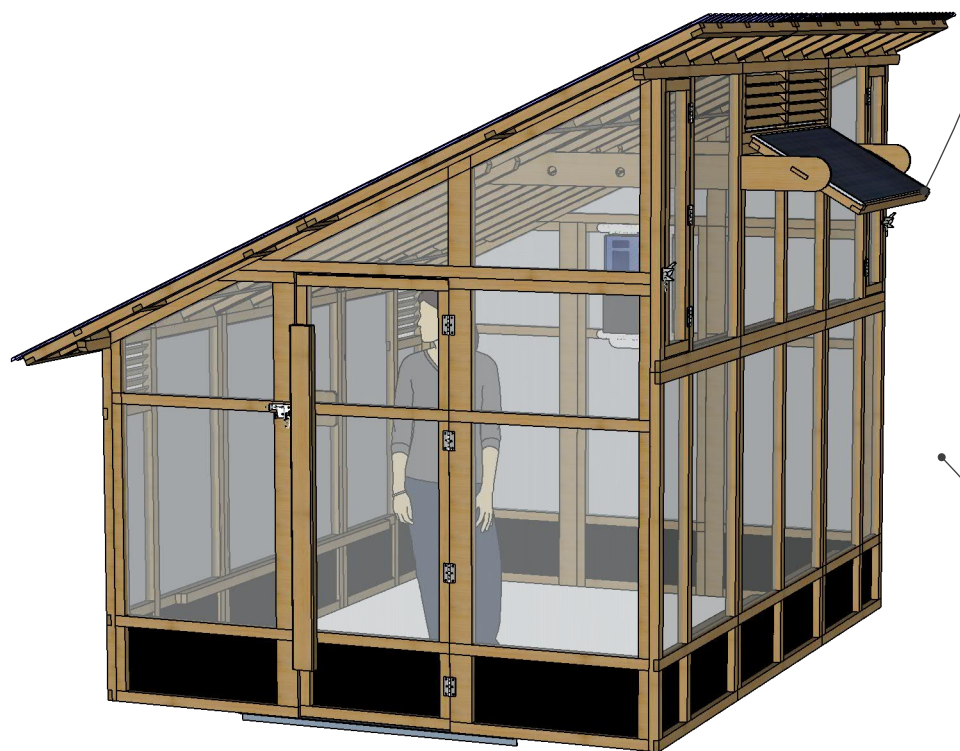
← East to West or West to East →



- 1 For optimal light transit time you want your greenhouse situated East to West from side to side.



- 2 If you bought the AVM Solar Ventilation System then the solar panel is optimally facing South with clear unobstructed view of the sun.



- 3 If you live somewhere where it snows a lot, make sure to leave plenty of room in the back for snow to be knocked off the roof and accumulate on the ground before cleaning.

- 4 The more room you leave around your greenhouse, the more light that can come in through the sidewalls.

**This orientation guidance is for optimal results. If you cannot position greenhouse like this, it can still function adequately.**



**E1 3 Inch T25 Screw**  
(Screw colors can vary due to supply.)

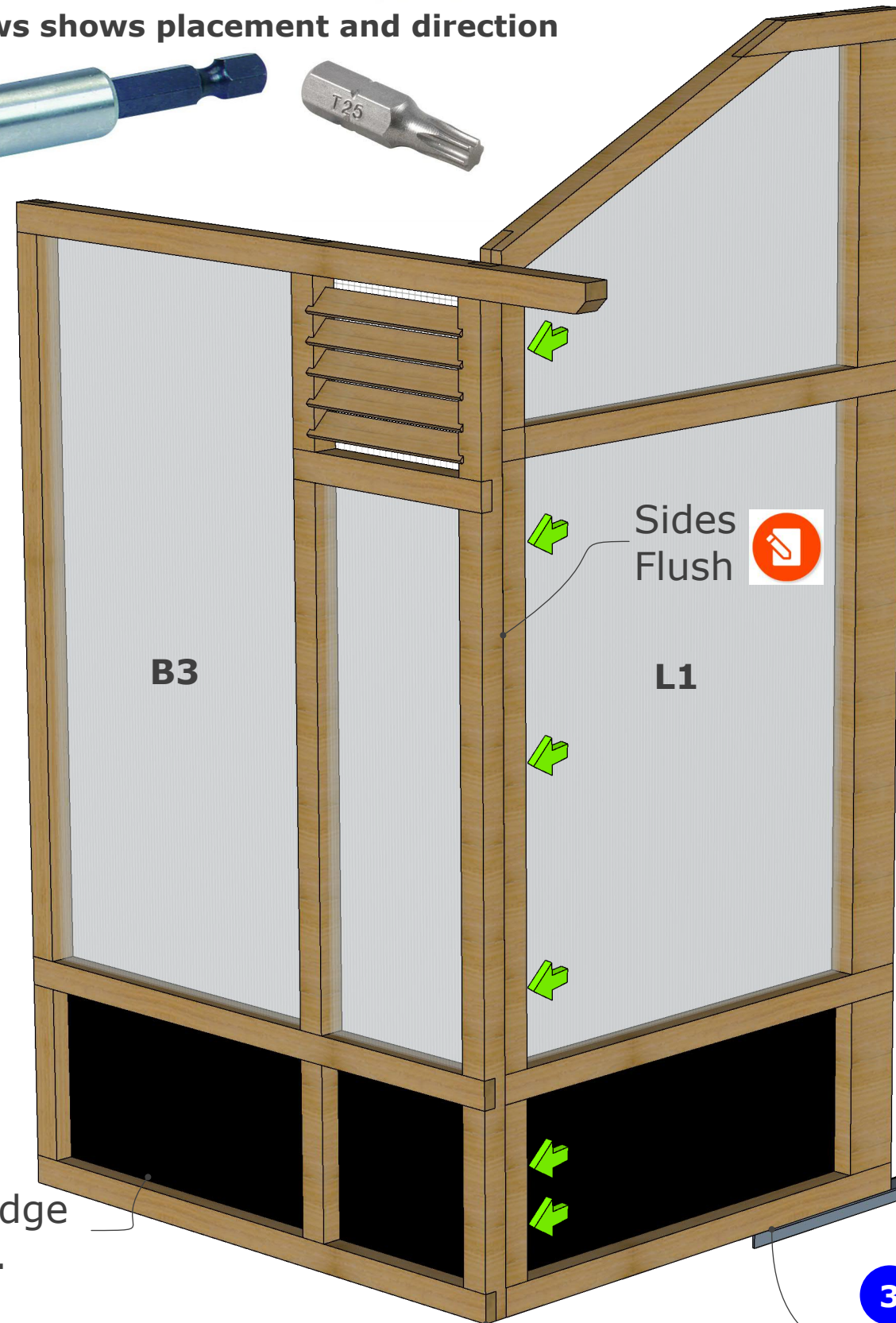


Green arrows shows placement and direction



Fig 1

2



Bigger ledge goes out.

Sides Flush



B3

L1

M6

3

Position  
Approximately  
10" Overlap



Make Bottom Flush

:-) Here we go!

**1.1 Door Threshold Stabilizer:** Using the measurements provided in the prior sections, hammer into the ground the M6 angled aluminum door threshold stabilizer in the position where you want the center of your door to be. Either leg of the angle can be driven into the ground. If your ground is too hard, use a shovel or other sharp tool to create a crevice for the stabilizer to be seated into.

**1.2 Assemble Back Left Corner:** Using provided E1 3" T-25 screws, your drill and the provided T-25 bit in provided bit holder, assemble the back left corner as shown in FIG 1 with the L1 panel screwing to the backside of the B3 panel.

Focus on making bottom and side edges flush and then drive screws as indicated by the green arrows only tight enough to secure the pieces and not so tight as to bury the screw head too far.

**1.3 Position Over the Threshold Stabilizer:** The assembly should be able to be self standing. Generally position over the stabilizer overlapping about 10 inches and move on to the next step.



1



One person can hold panel while the other drives in the screws.

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Threshold & Back  
Left Corner



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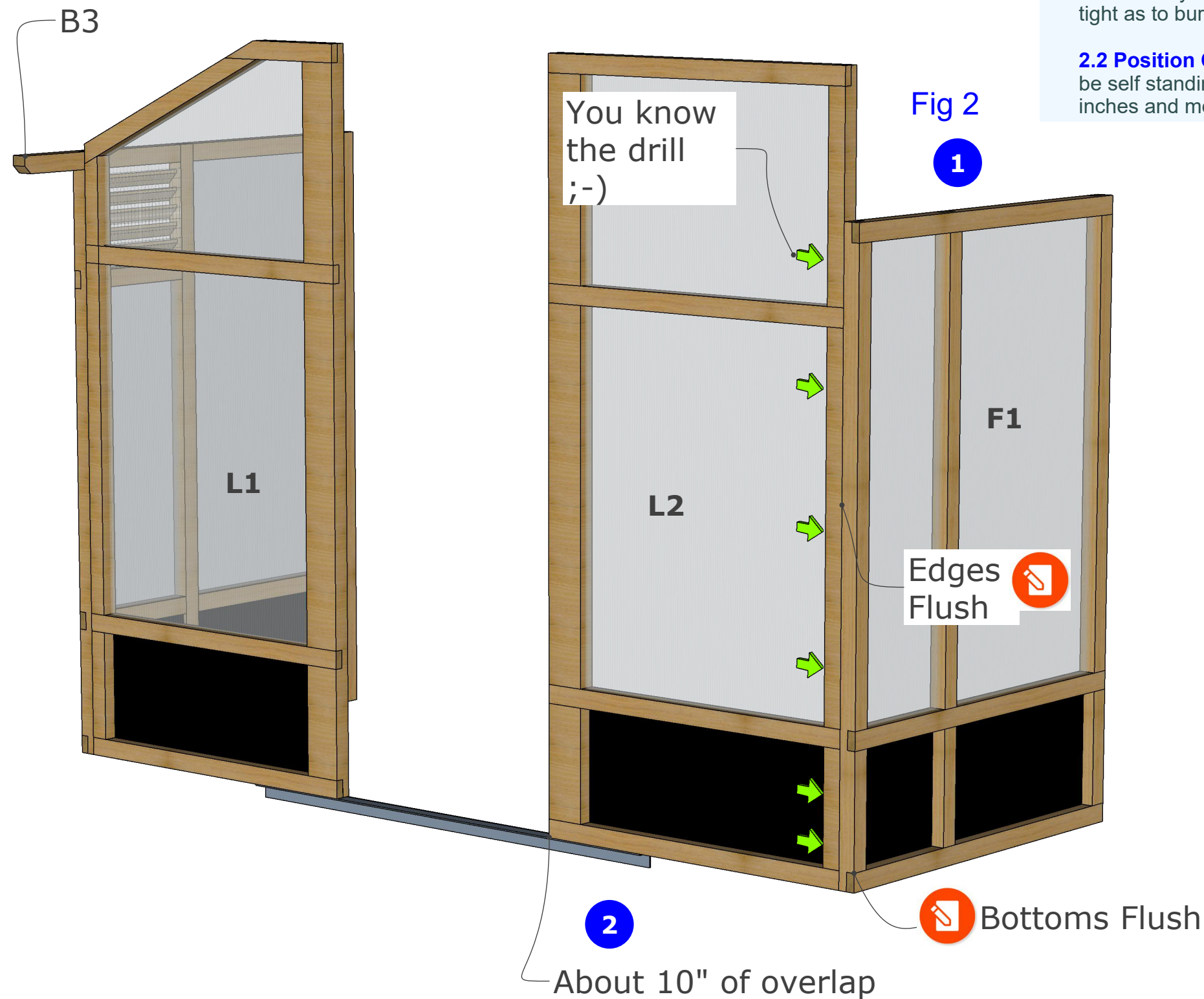


*It will make sense soon!*

**2.1 Assemble Front Left Corner:** Using provided E1 3" T-25 screws, your drill and the provided T-25 bit in provided bit holder, assemble the front left corner L2 to F1 as shown in FIG 2.

Focus on making bottom and side edges flush and then drive screws as indicated by the green arrows only tight enough to secure the pieces and not so tight as to bury the screw head too far. (swear not to repeat this again :-)

**2.2 Position Over the Threshold Stabilizer:** The assembly should be able to be self standing. Generally position over the stabilizer overlapping about 10 inches and move on to the next step.



**Will put actual photos whenever we can too so that you can double check in your mind what is going on.**





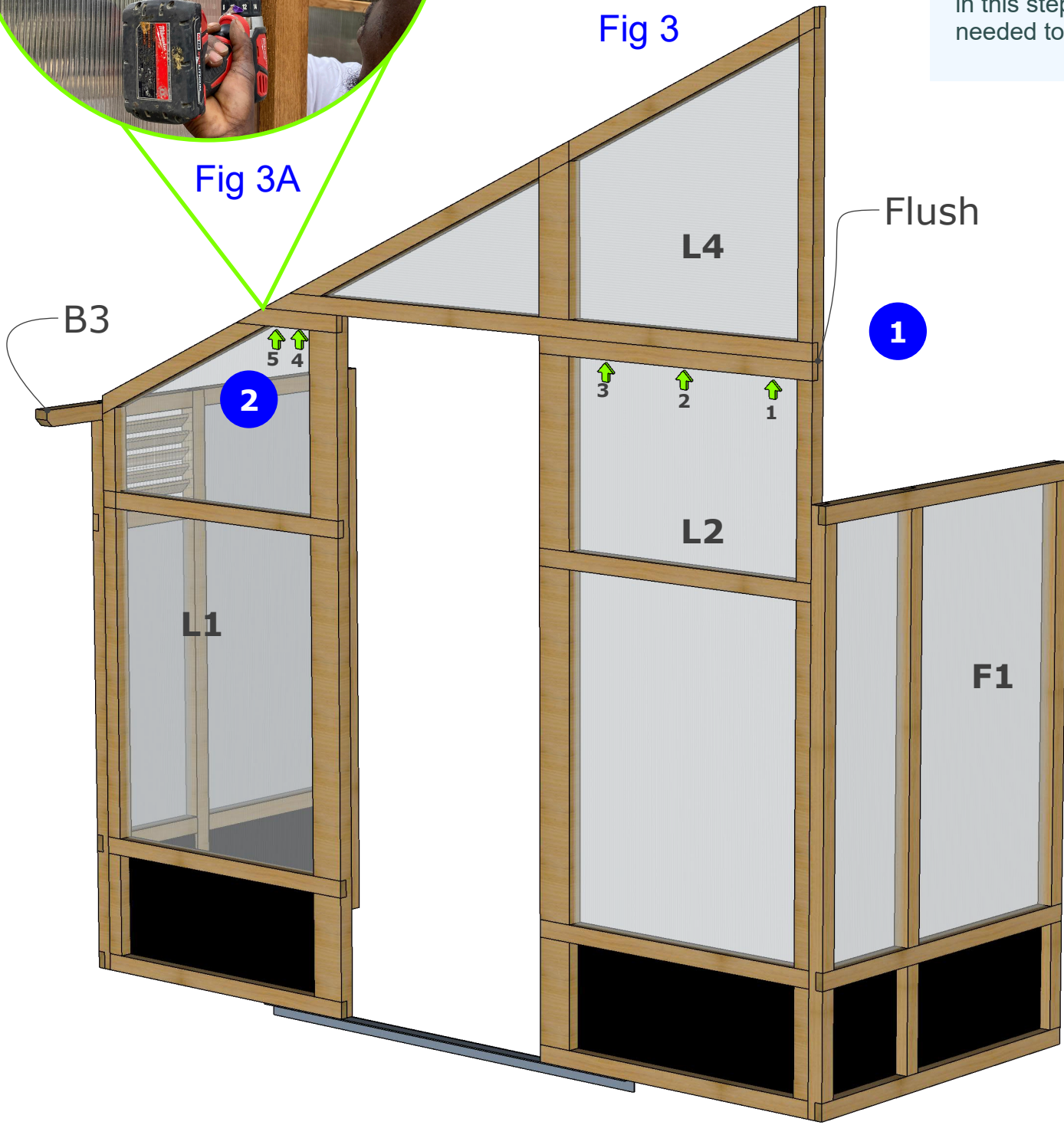


Flush  
Angle & Edge



Fig 3A

Fig 3



We're about to find out how flat your ground is...

**3.1 Install Left Triangle Panel:** Place the L4 triangle panel on top of L2 and L1 as illustrated and the using E1 3" T-25 screws, screw down L4 panel tight to L2 and flush in the order of the 1-3 green arrows as shown.

**3.2 Position Over L1:** Line up L4 over the top of L1 making flush as shown in FIG 3A and then install screws 4 & 5 drawing the seam tight.

If the ground is not level and the tops of L2 and L1 are significantly off it will become apparent in this step. Let the screws draw the assembly tight and remove or add soil under L1 & L2 as needed to support the assembly.







Fig 4A

*The one time you'll use a tape measure... sorry :-)*

**4.1 Verify Door Top Opening:** Take a measurement in the door opening at the top. It should be pretty much 26½ inches. If it's more than 1/4 inch off then verify front edge of L4 to L2 are flush and that trailing edge of L4 to L1 angle is aligned. See FIG 4A.

**4.2 Pin Left Side of L1 Door Frame:** Line up back edge of L1 Panel to the M6 stabilizing strip back edge and using the provided 5/32 drill bit drill down through the bottom rail of L1 through the aluminum strip. Fig 4B Note: Take care not to move when you withdraw the drill so the holes stay lined up. Insert an E1 screw into the hole you drill and drive the screw SLOWLY through the bottom rail into the aluminum bar so as to lock the bottom edge to the bar. If the screw resists too much, reverse out, and slowly repeat going in until the screw seats into the aluminum.

**4.3 Pin Right Side of L2 Door Frame:** Line up back edge of L2 Panel to the M6 stabilizing strip back edge. Move in or out the bottom of the L2 Panel as needed to make the bottom opening the same as the top opening. Using the drill bit, repeat the procedure you did to pin the left side of the door, and pin in place the right side of the door.



Fig 4B

Make back sides of panels flush with back side of aluminum bar.

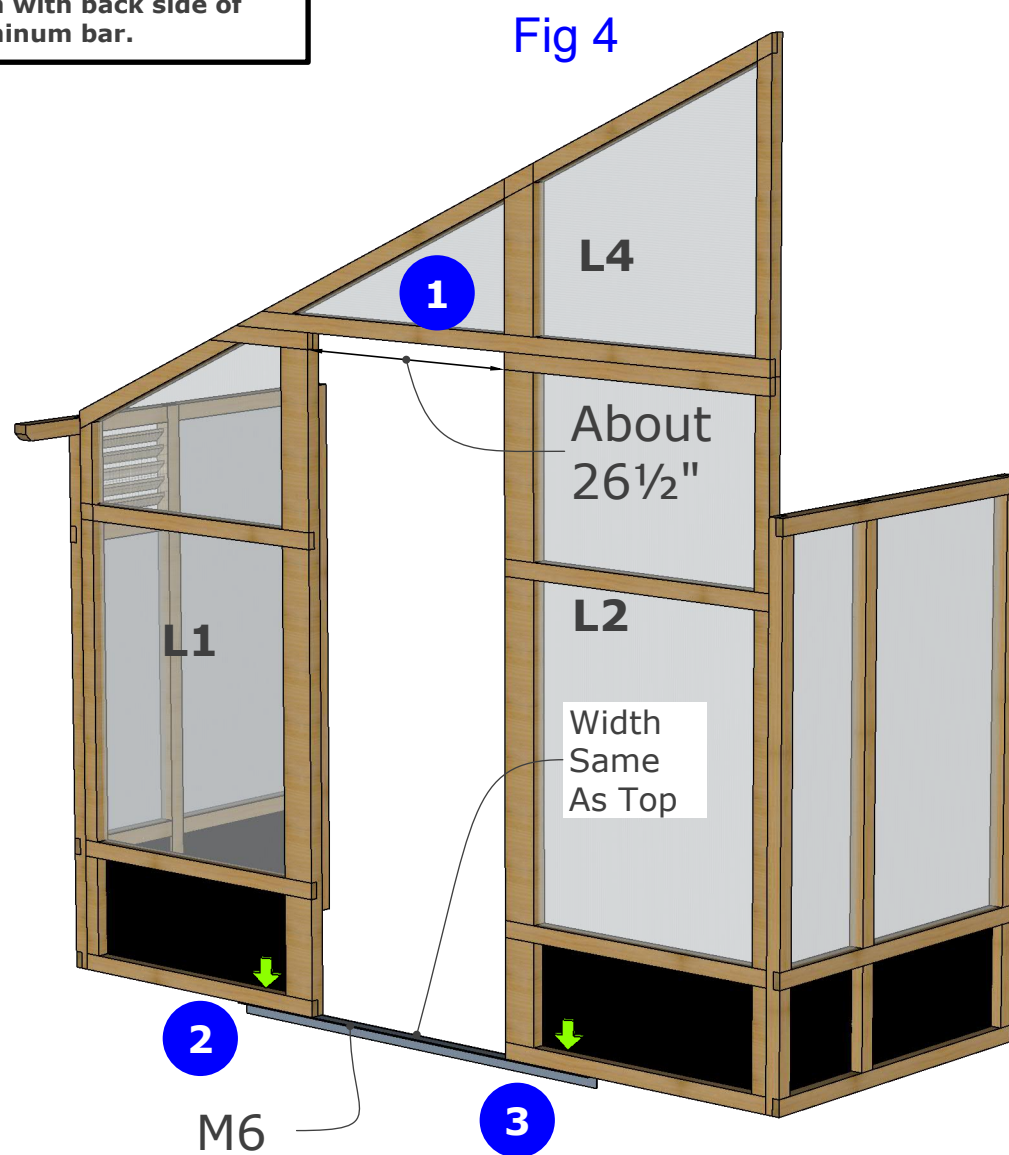


Fig 4



Fig 4C

5/32 Drill Bit



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Set doorway...



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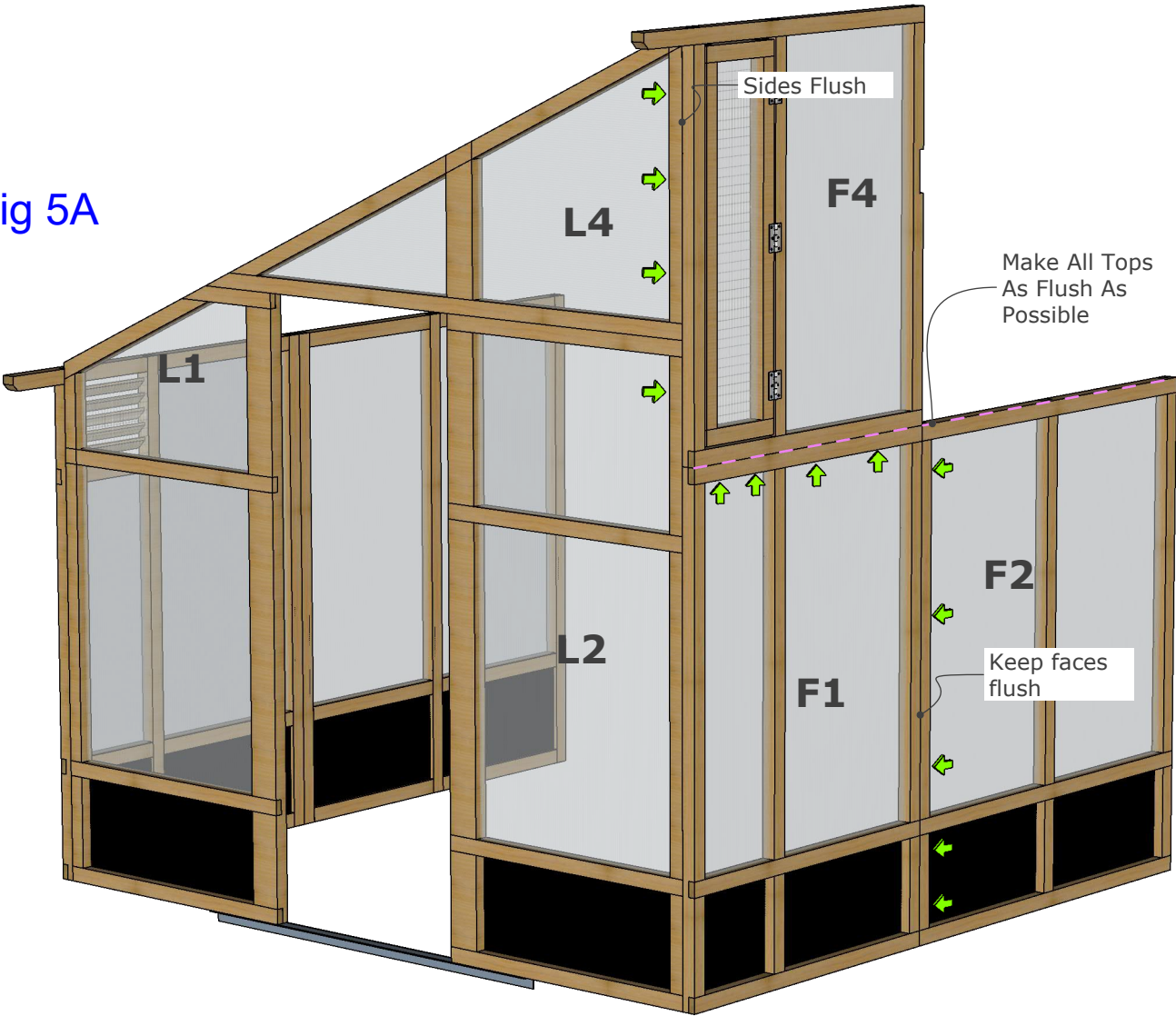


Lets get this done... 3 panels at once!

- 5.1 Install Bottom F2 Panel:** You know the drill. Using the provided T25 screws where indicated by the green arrows, attach F2 to F1 keeping top edge & faces as flush as possible. See FIG 5A.
- 5.2 Install F4 Panel:** Place panel F4 on top of panel F1 making sure bottom edges and side edges where F4 meets L4 & F1 are as flush as possible. Attach using T25 screws as indicated by the green arrows. See FIG 5A.
- 5.3 Install B2 Panel:** Aligning faces and top edge of panel B2 to panel B3, install T25 screws as indicated by the green arrows in FIG 5B.



Fig 5A



Make All Tops As Flush As Possible

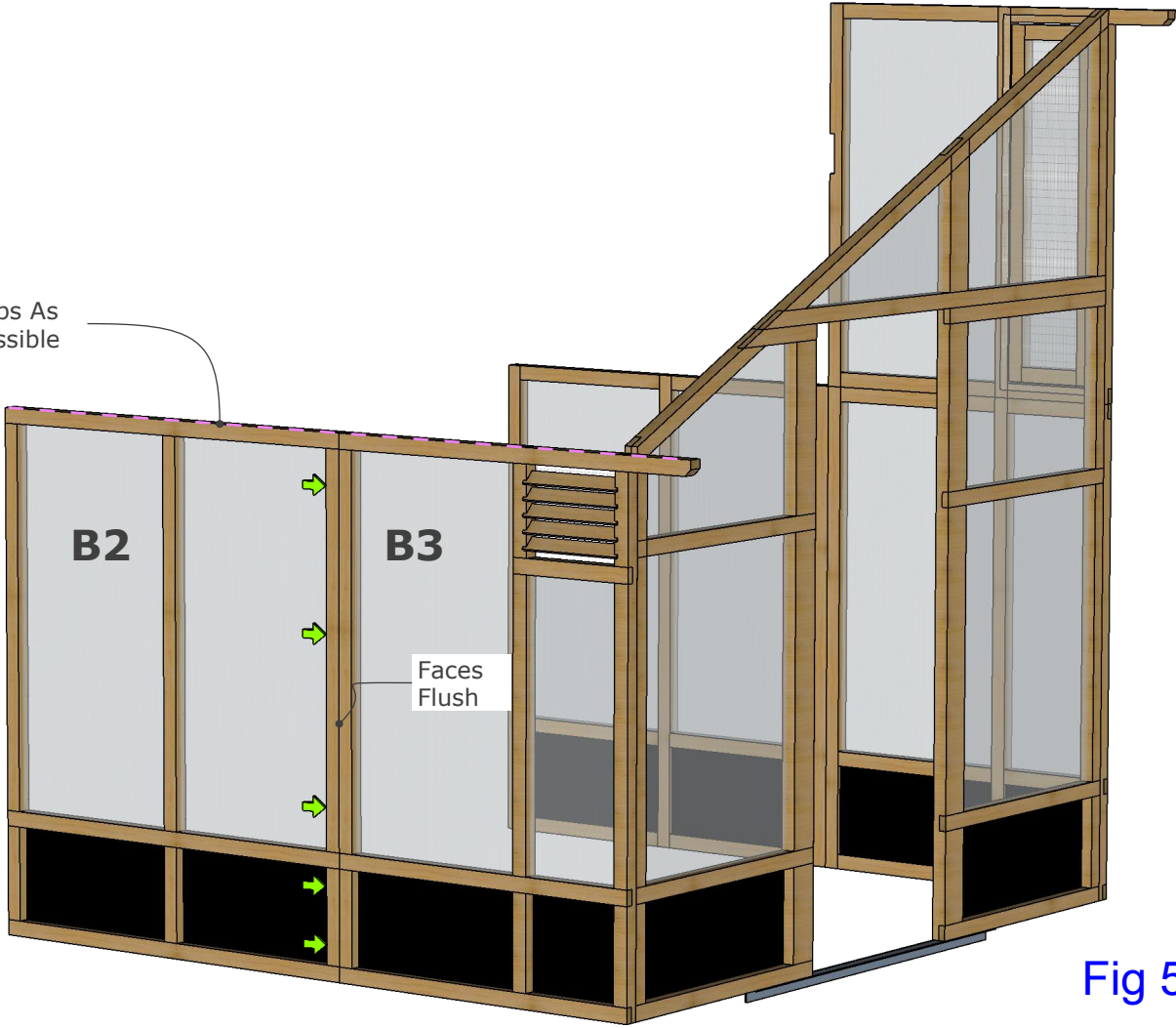
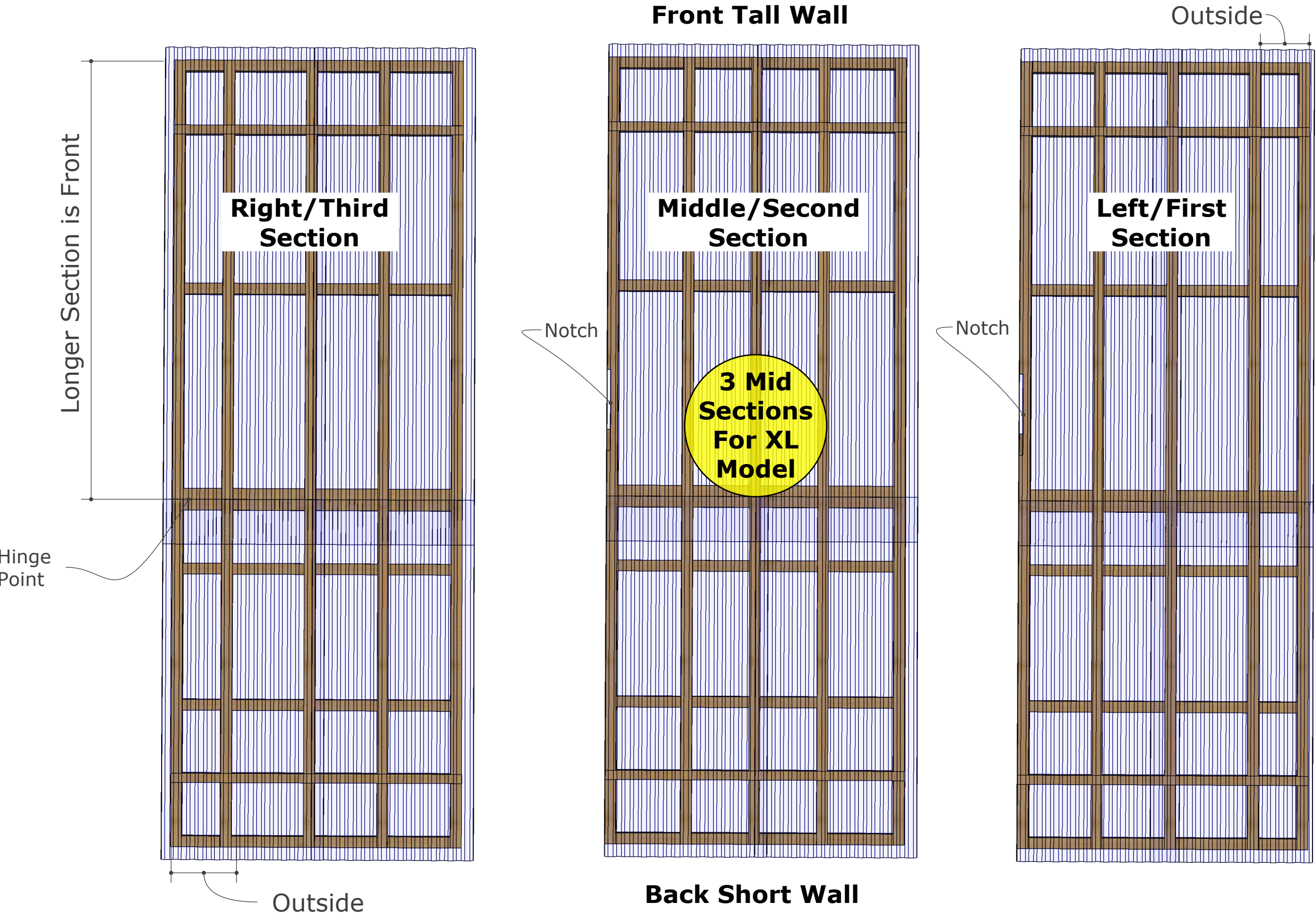


Fig 5B



Here's how to identify which roof section is which...  
Looking down aerial view.





# The concept of the pre-assembled scissor roof...



Maybe 3 People  
If You Aren't  
Comfortable  
With Weight

*We didn't want you crawling up on the roof...*

**General procedure... instructions on next page.**

**1. Stage Roof Section:** Carry the roof section into the open end of the partially assembled structure. positioned with the hinged end going in first and the shorter side of the roof assembly facing the back of the greenhouse.

**2. Stand Up & Fold Open:** The first person in stands their end up and the short side is folded over the back side of the greenhouse while the long side is straightened out over the front.

**3. Slide Over Into Position:** After unfolding, slide the roof up and into position over the triangle side of the side wall. You will use the side triangle as a ramp and to hold some of the load.

**4. Slide Up & Over The Top:** While lifting a little to take weight off, LIFT & SLIDE the assembly up and over the front wall of the greenhouse.

This procedure is repeated for all roof sections.



The polycarbonate roof is very, very flexible and will not break if you rest weight on it.

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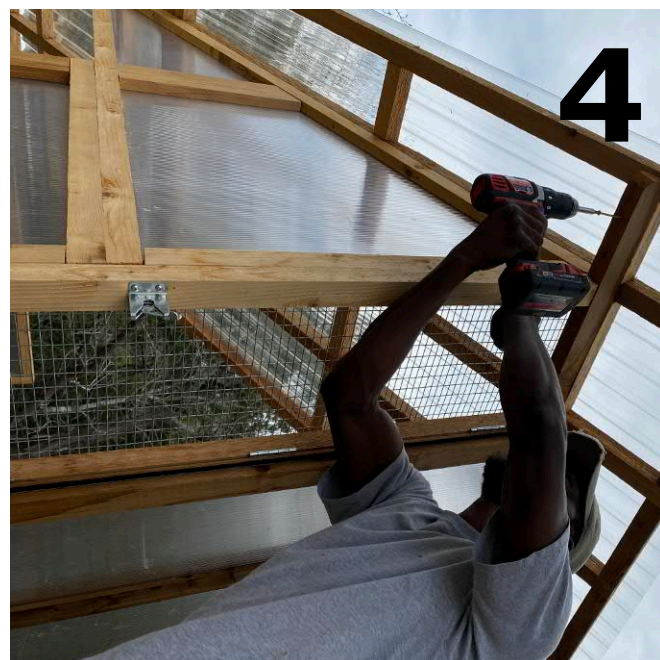
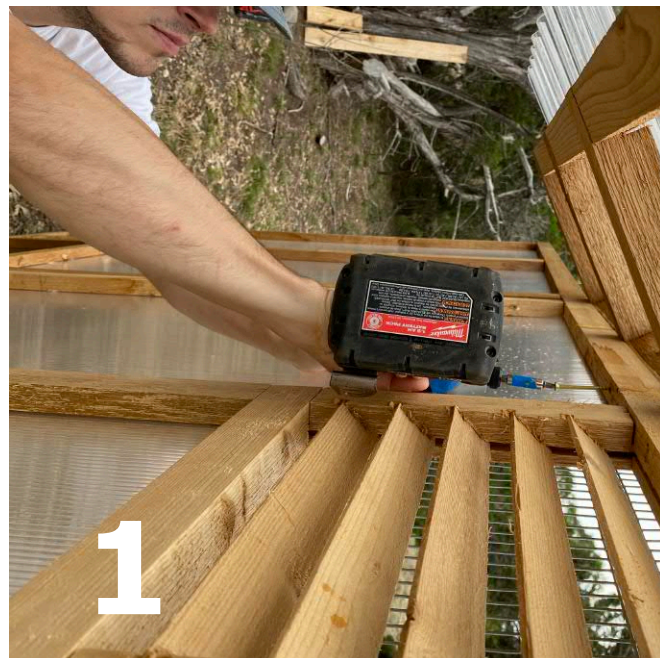
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Roof Section 1 Unfold  
& Placement



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## Install Roof Section 1 (left roof panel)

**6.1 Slide Side & Back Into Place:** Refer to instructions on page 11 for placement procedure and put in place Roof Section 1 as illustrated onto left end of greenhouse.

**6.2 Square Back to Left Side:** By moving the roof section and pulling in or out back walls and left side wall, make the back edges and the side edges of walls flush with the roof frame as indicated in illustrations. Place 3" T25 Screws in back B3 panel and left L4 and L1 side panels as indicated by green arrows in FIG 6B.

**6.3 Align Front Edge:** By moving the front wall in or out, align top of the F4 panel with the beveled front roof frame piece making the edges flush and install T25 screws as indicated by green arrows in FIG 6C.

Refer to figures and photos 1-4 to orient yourself to the task.

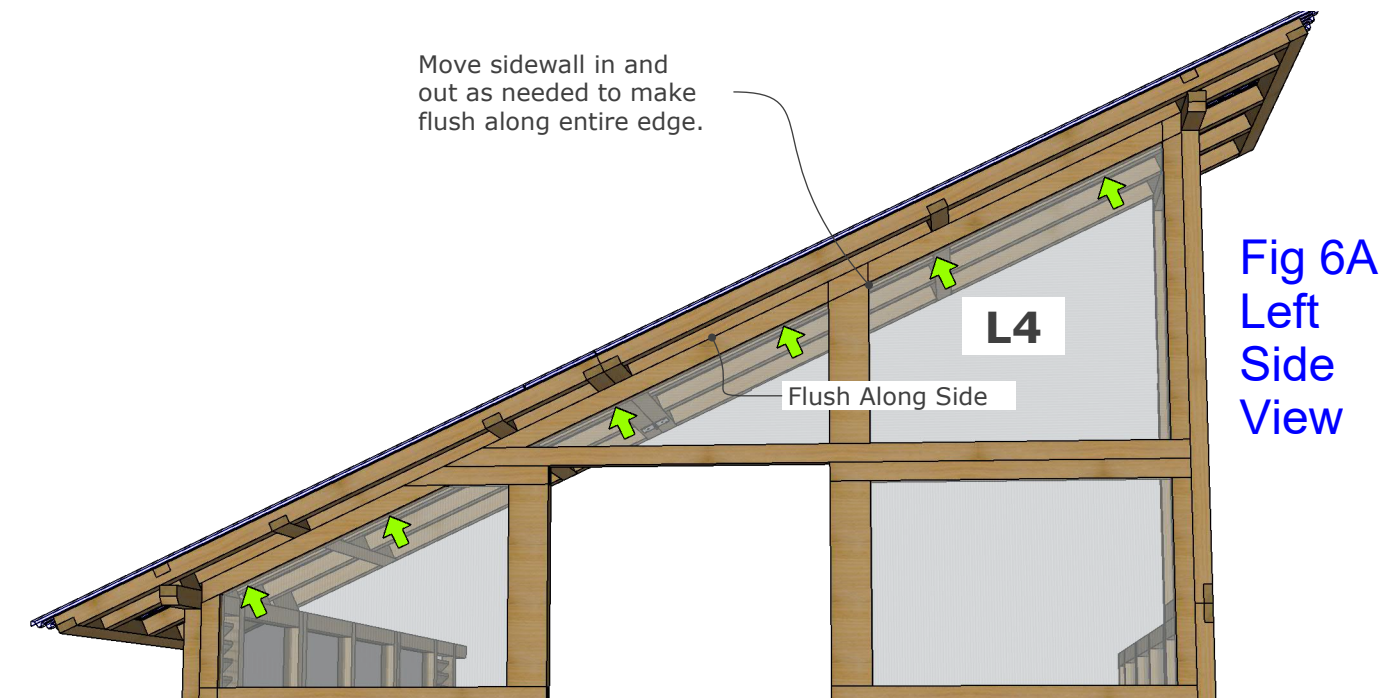


Fig 6A  
Left  
Side  
View

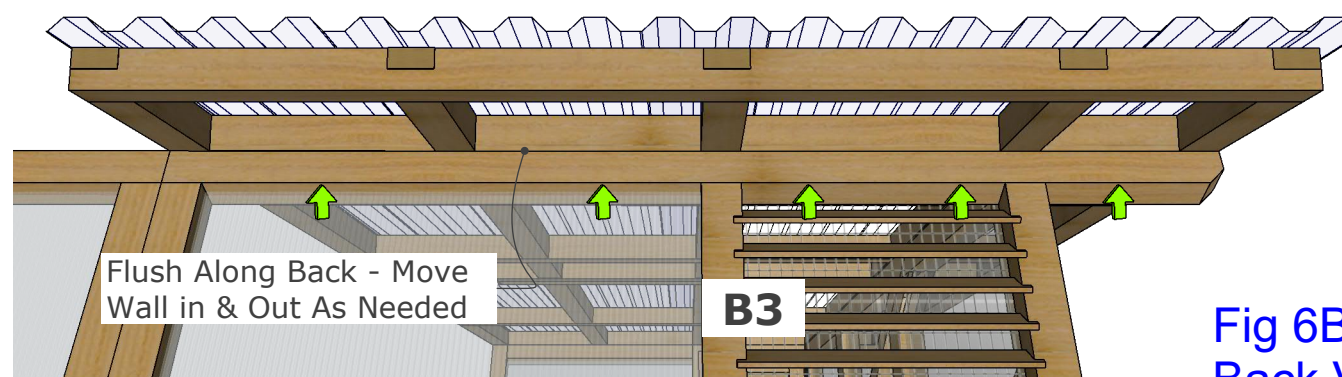


Fig 6B  
Back View

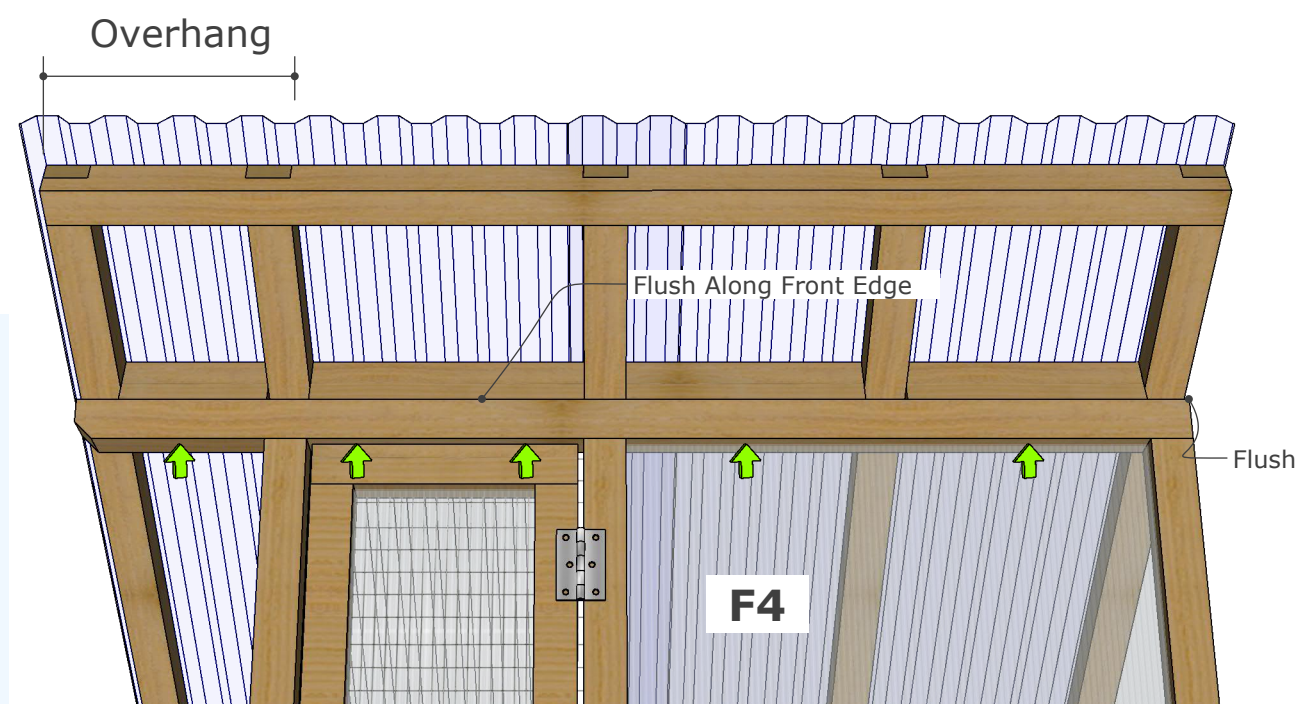
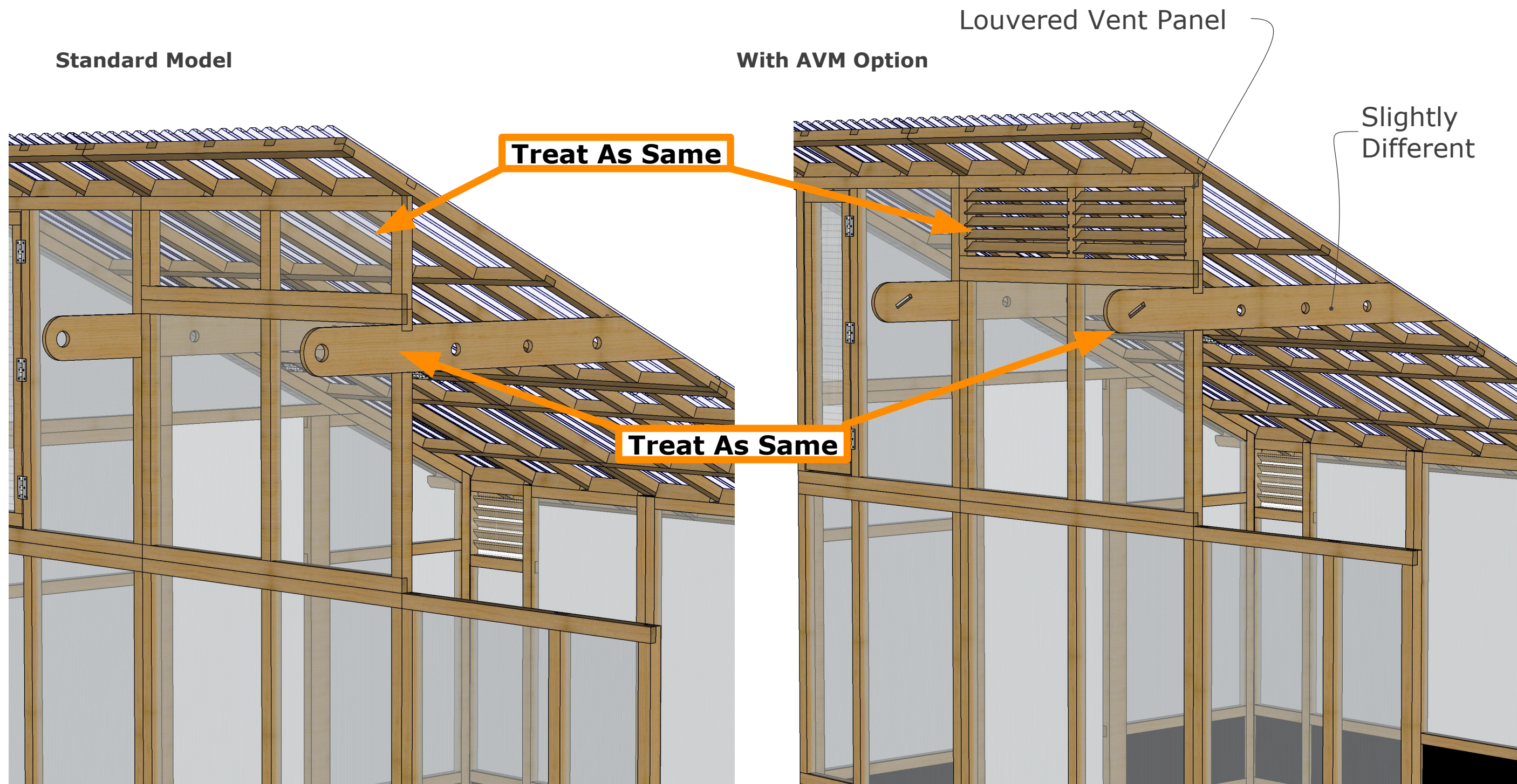


Fig 6C  
Front View

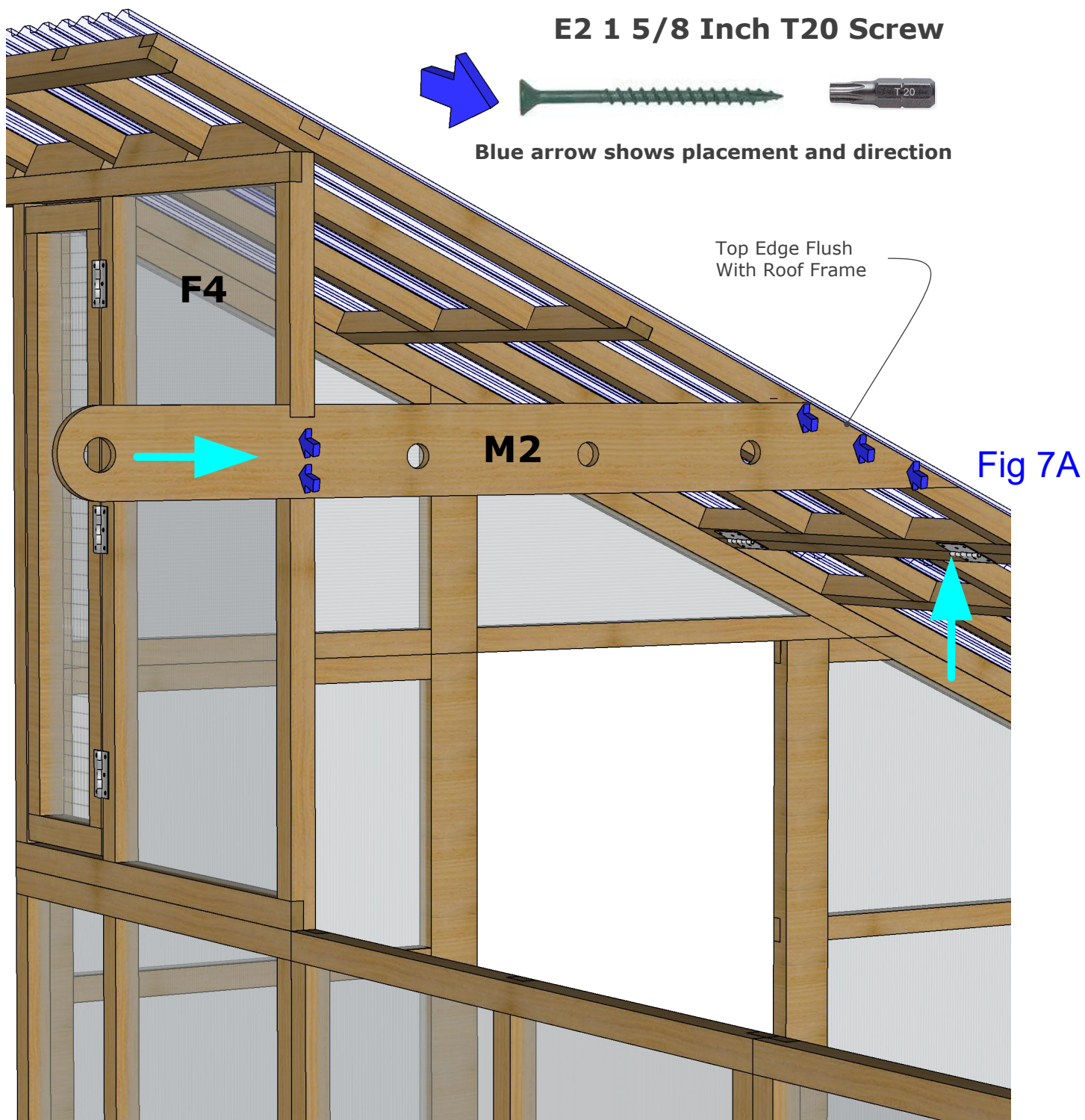




## Take Note...

Even though these parts look different in the coming steps if you ordered the AVM option, assembly is the same but is only shown for the standard model.



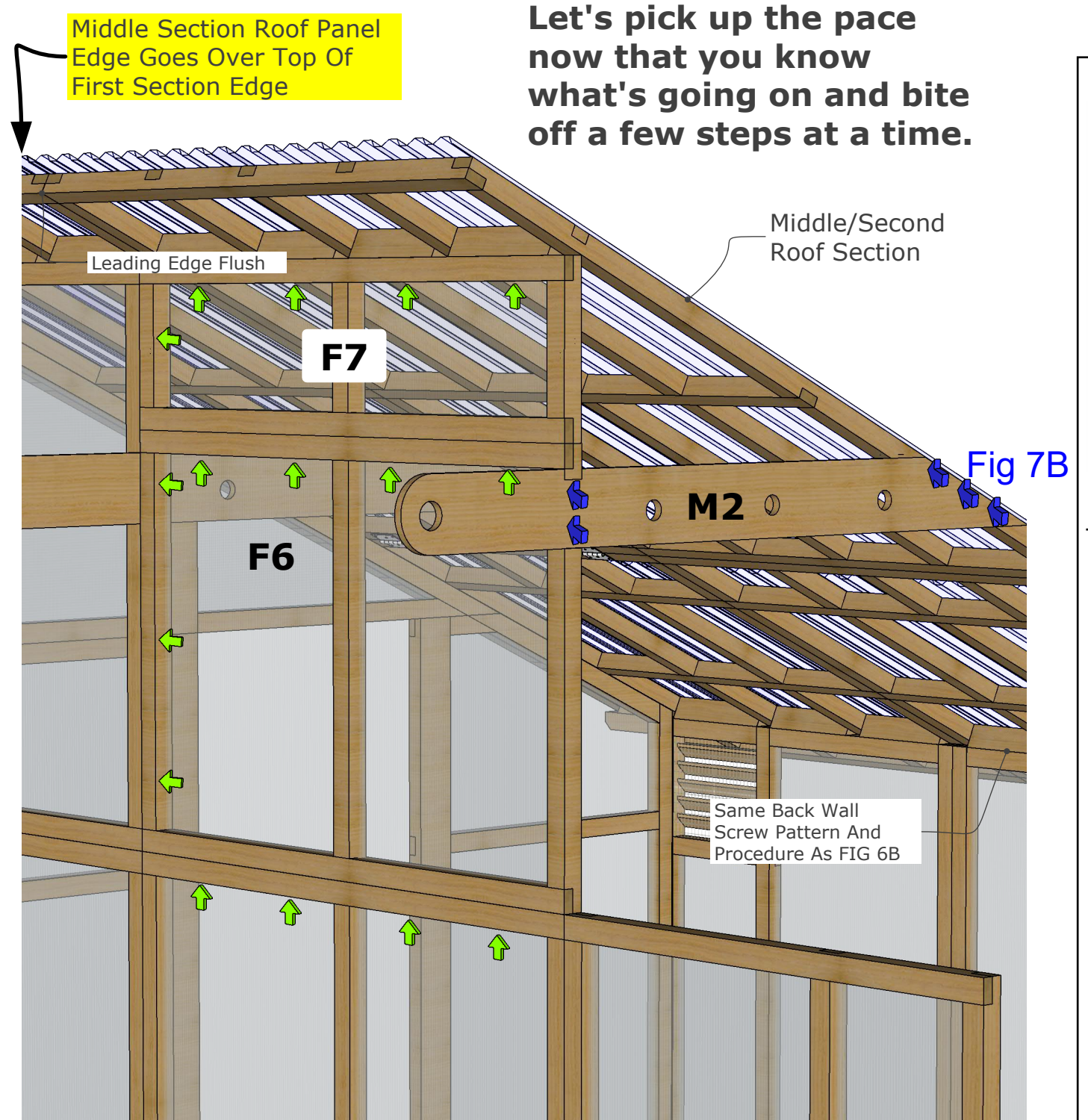


## Roof / Wall Support Bracket

**7.1 Install M2 Roof Support:** The M2 Bracket positions & stabilizes the front wall and provides some roof support. More roof support to come later. Position the M2 Bracket as illustrated in FIG 7A and using E2 T20 screws and provided bit, drive 5 screws through bracket as indicated by the blue arrows.

You will need to push the bracket into place in the direction of the aqua arrows making sure the front notch locks into the F4 panel as illustrated and the back edge of the M2 bracket is flush with the top edge of the roof frame.

This positioning will automatically lock the front wall and the roof into alignment for later strengthening.



## Big Bite very little instruction... but you know.

**7.2 Install Panel F6:** Using T25 screws, install panel F6

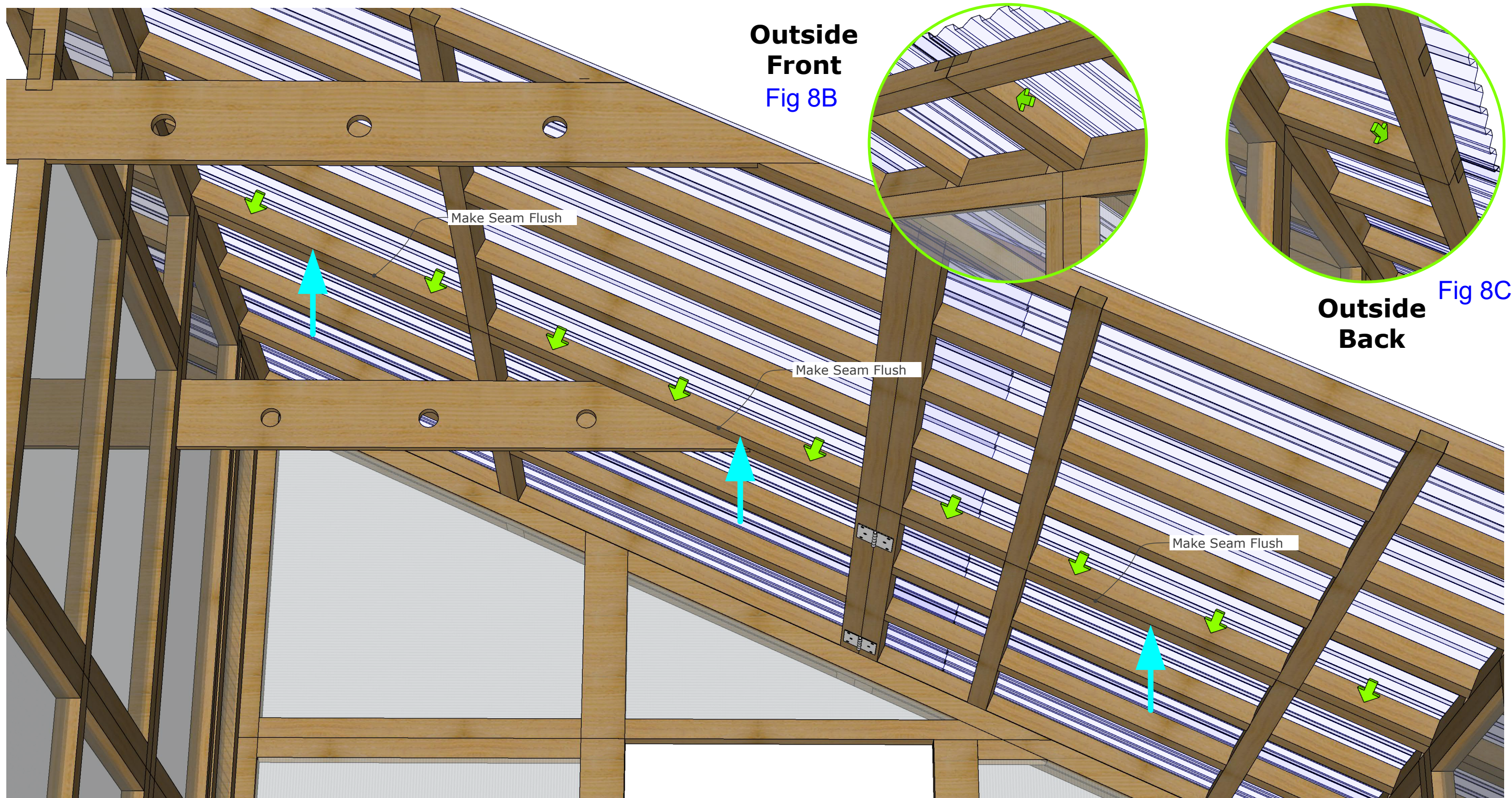
**7.3 Install Panel F7:** Using T25 screws, install panel F7 or louvred vent panel shown on prior page if you ordered the AVM Option.

**7.4 Install Middle Roof Section:** Place middle roof section using the same procedure used in step 6 left section, and place then fasten to both front and back walls as indicated in FIG7B.

**7.5 Install Panel M2 Bracket:** Using T25 screws, and procedure in 7.1, install bracket M2 as indicated in FIG7B.

Let's pick up the pace now that you know what's going on and bite off a few steps at a time.





*A little roof structure work.... still more to come. It's big!*

Fig 8A

**8.1 Attach Middle Roof Section To Left Side Roof Section:** Using T25 screws and provided bit, drive screws in the approximate locations as illustrated while pushing up on roof sections as needed to make sure bottom edges of each section are flush with one another. See FIG 8A. Holes are not pre-drilled. Drive screw towards the middles of the wood and their aggressive thread will self pierce.

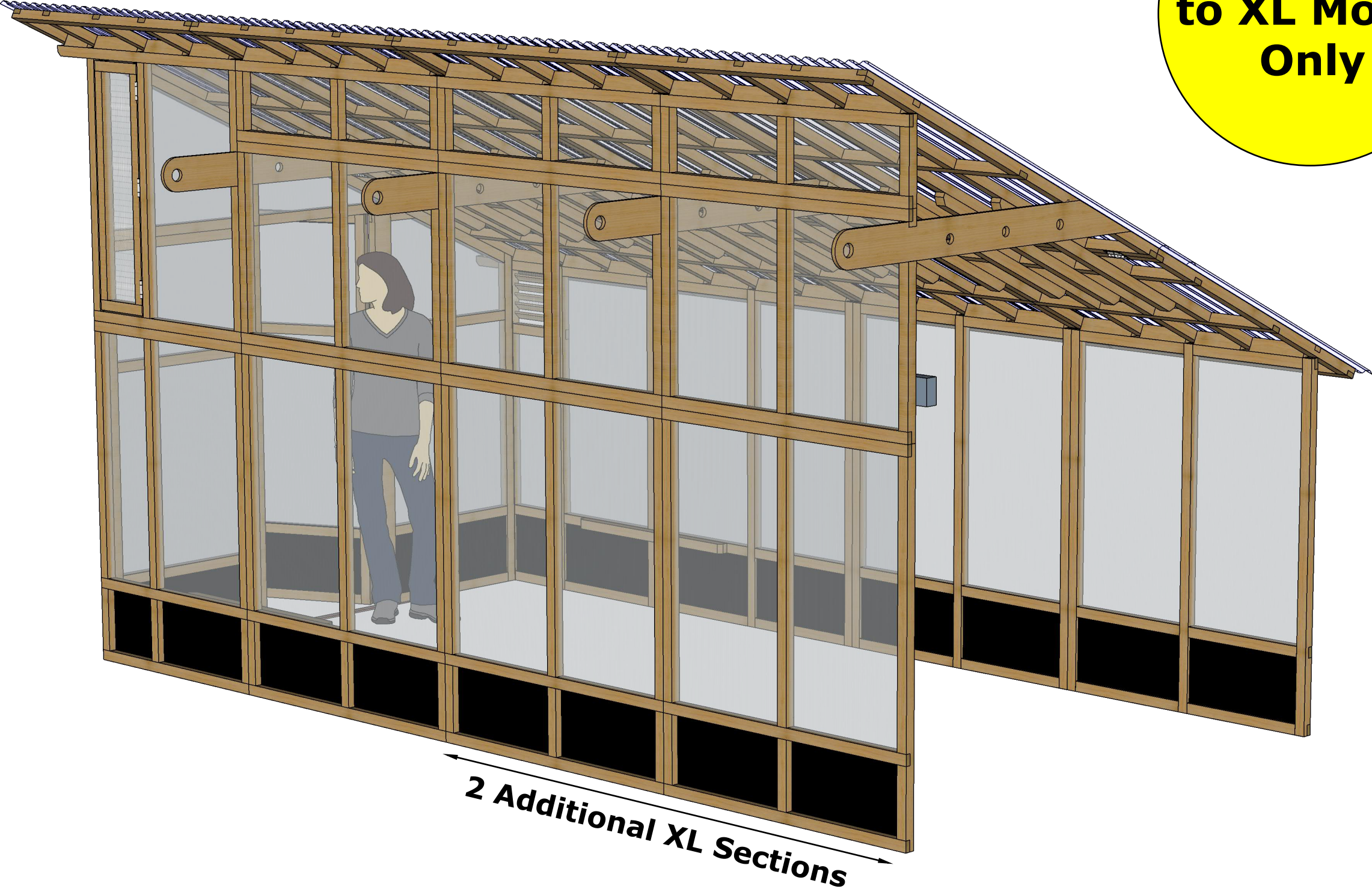
**8.2 Front Leading Edge:** Using T25 screws and carefully standing on at least a 6 foot step ladder or similar... drive a screw in the approximate location as illustrated in FIG 8B while pushing up on roof sections as needed to make sure bottom edges of each section are flush with one another and the front leading edge looks straight.

**8.3 Back Trailing Edge:** Using T25 screws, drive a screw in the approximate location as illustrated in FIG 8C while pushing up on roof sections as needed to make sure bottom edges of each section are flush with one another and the back trailing edge looks straight.



If you bought the XL Model... you repeat steps 7 and 8, 2 more times.

Applies  
to XL Model  
Only





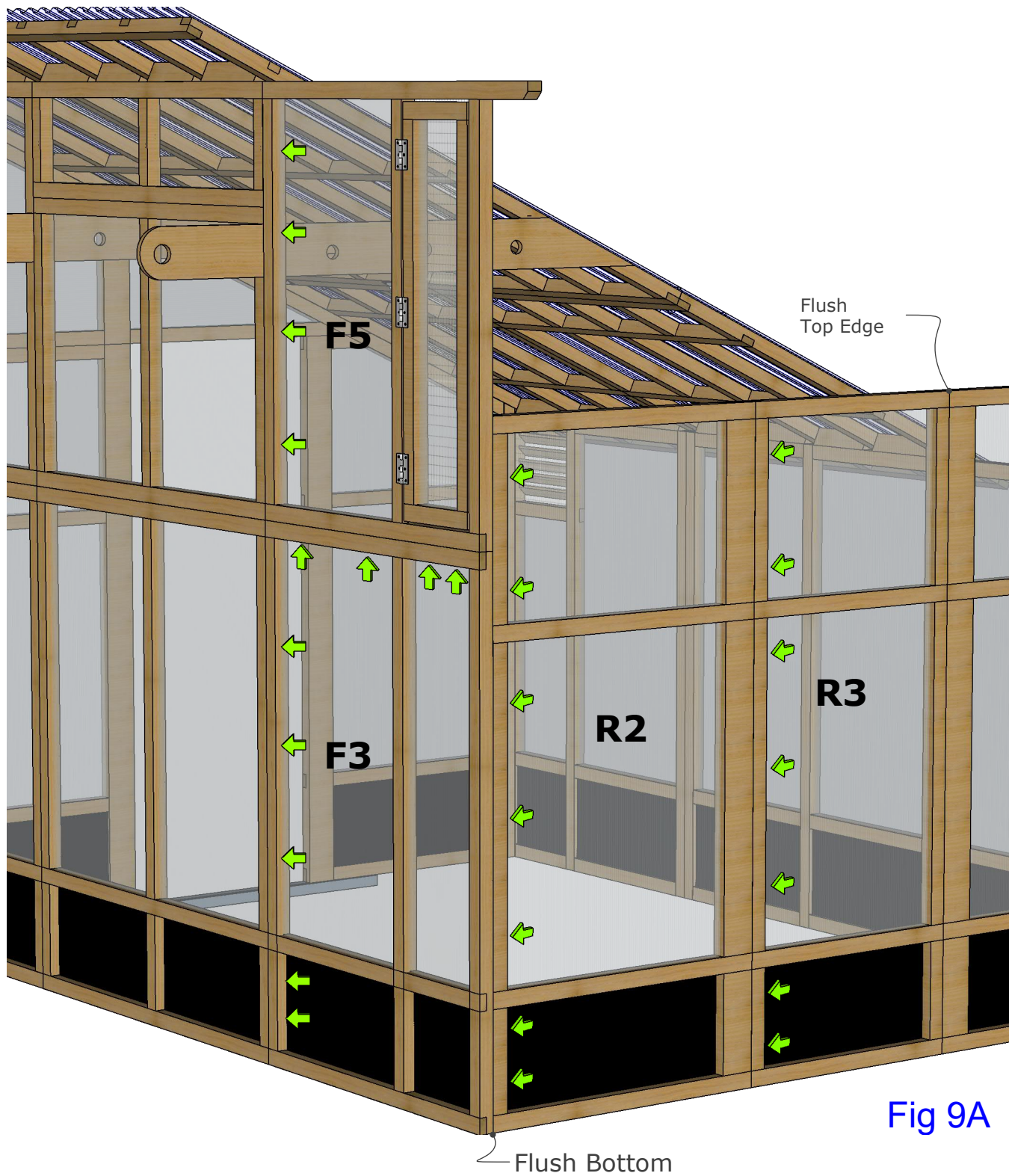


Fig 9A

*Finish up end front wall and some of right wall...*

**9.1 Install F5 Panel:** Using provided T25 screws install F3 & F5 panel as illustrated in FIG 9A.

**9.2 Install R2 Panel:** Using provided T25 screws install R2 panel as illustrated in FIG 9A. Make bottom edge flush.

**9.3 Install R2 Panel:** Using provided T25 screws install R3 panel as illustrated in FIG 9A making top edges flush.

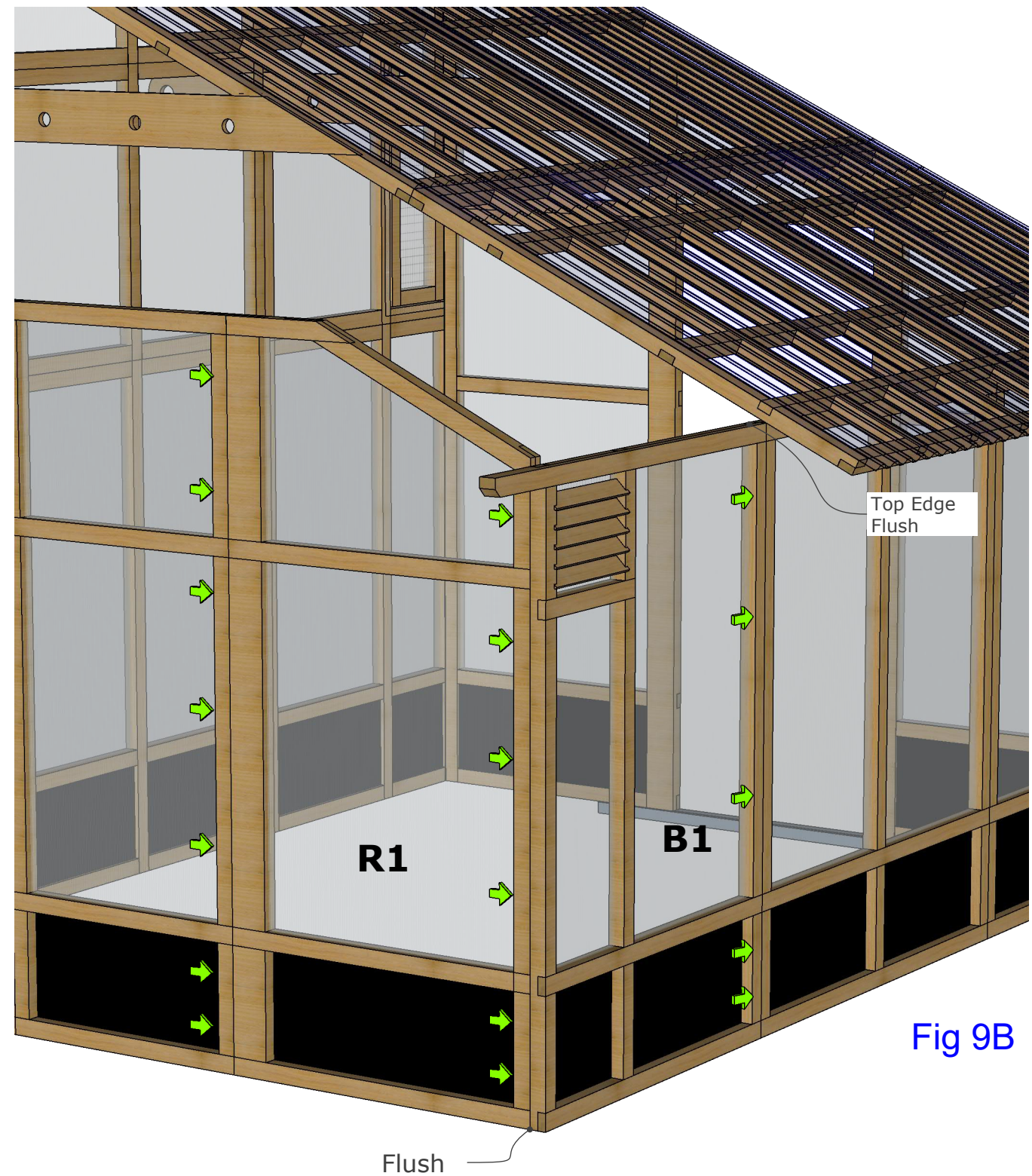


Fig 9B

*Finish up end back wall and right wall...*

**9.4 Install B1 Panel:** Using provided T25 screws install B1 panel as illustrated in FIG 9B making top edges flush and straight with other back panels.

**9.5 Install R1 Panel:** Using provided T25 screws insert and install the R1 Panel by first screwing from R3 into R1 with top edges flush and then making bottom corner flush, screw R1 into B1.

Doing so in this order will make the various panels fall into the right place and improve tolerances.



Right Section  
On Top Of  
Middle  
Section

Install Right Side  
Roof Consistent  
With Other Sections

*A little tricky! Right triangle and last roof panel.*

**10.1 Install R4 Panel:** Referencing Step 3 on page 7 repeat the procedure from installing the left side triangle L4 panel, to install the right side R4 triangle panel. See FIG 10A.

**10.2 Install Right Side Roof Section:** Repeating procedures used in prior roof section installation steps, unfold the Right Side Roof Section and slide over the back of greenhouse, up the top rail of the R4 panel, and over the top of the F5 panel. Align all edges and make flush and attach as indicated. Right side roof section rests over the top of the middle roof section. See FIG 10A

**10.3 Connect Right to Middle Roof Sections:** Using same procedure as in Step 8 on page 15, lift and make flush the bottom sides of the frames from the right to the middle roof section from inside and screw together.

*Starting to look pretty good!*

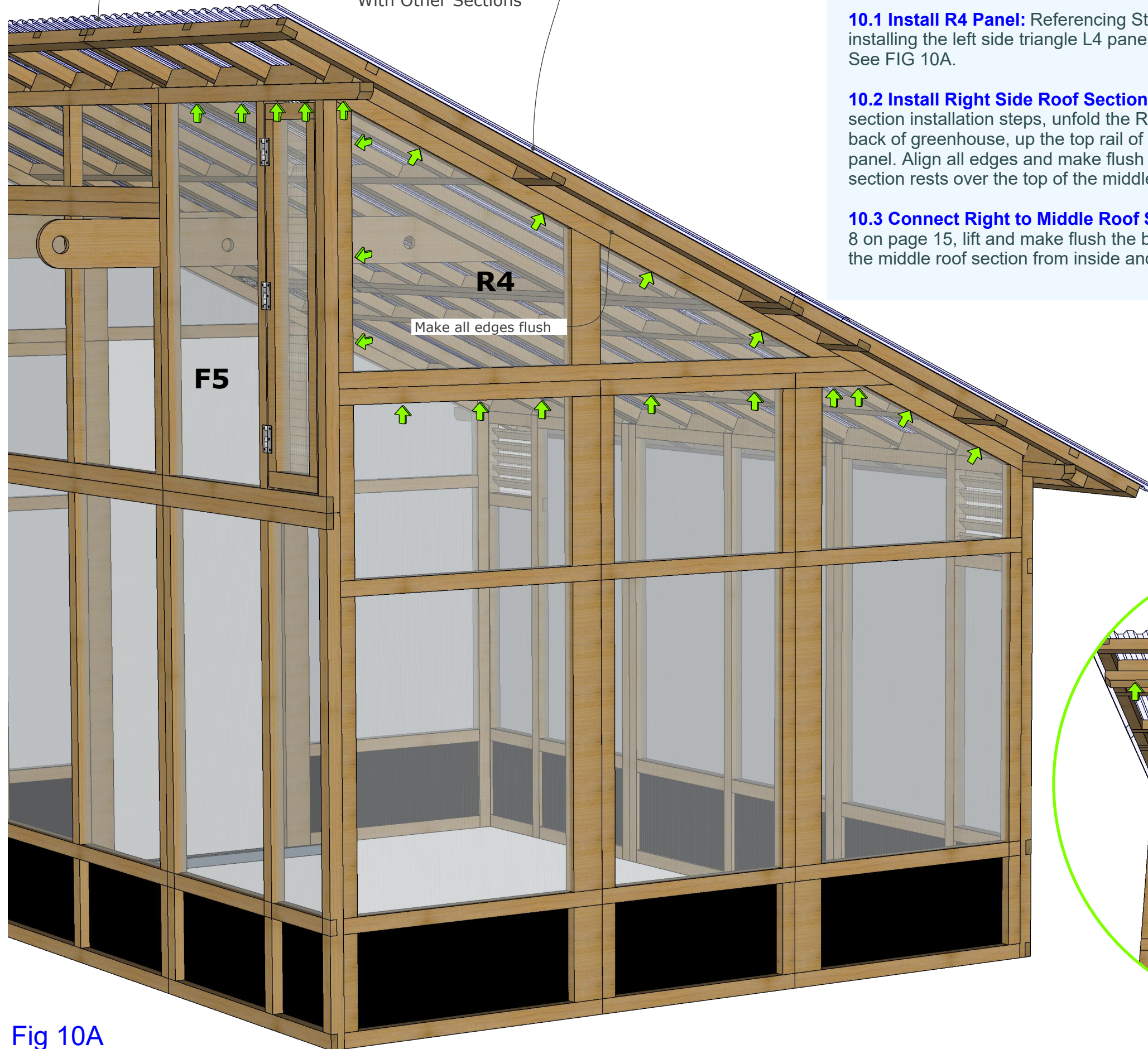


Fig 10A

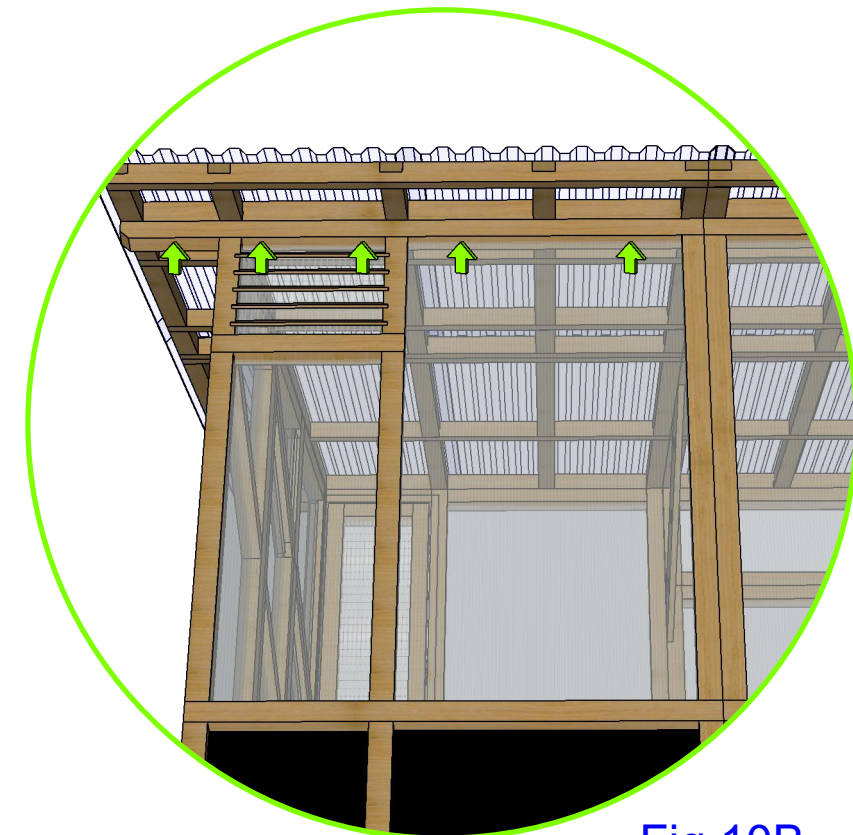
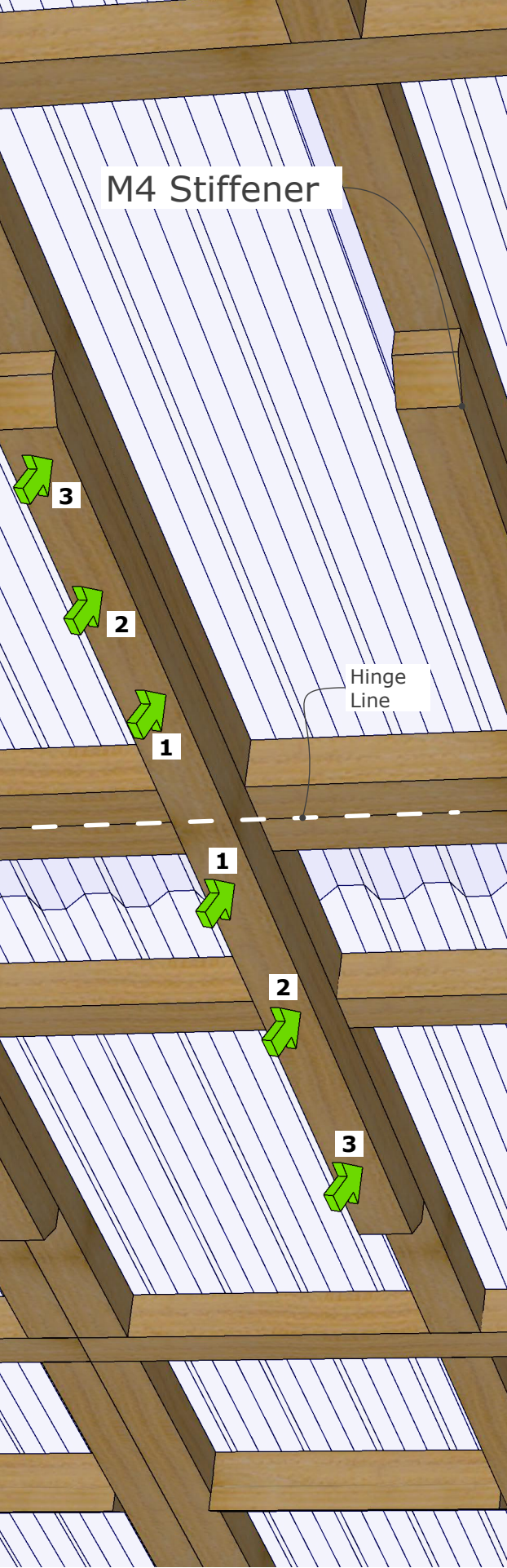


Fig 10B



Fig 11A



Flatten out the roof...

**Install Roof Stiffeners:** From inside the greenhouse, you'll be installing 9 roof stiffeners onto the underside of the roof frame in the positions as indicated in FIG 11B.

**11.1** Starting off at the left end, place the stiffener along the indicated longitudinal frame member (beveled ends facing down) where the middle of the stiffener is approximately along the middle of the hinge line (see FIG 11A)

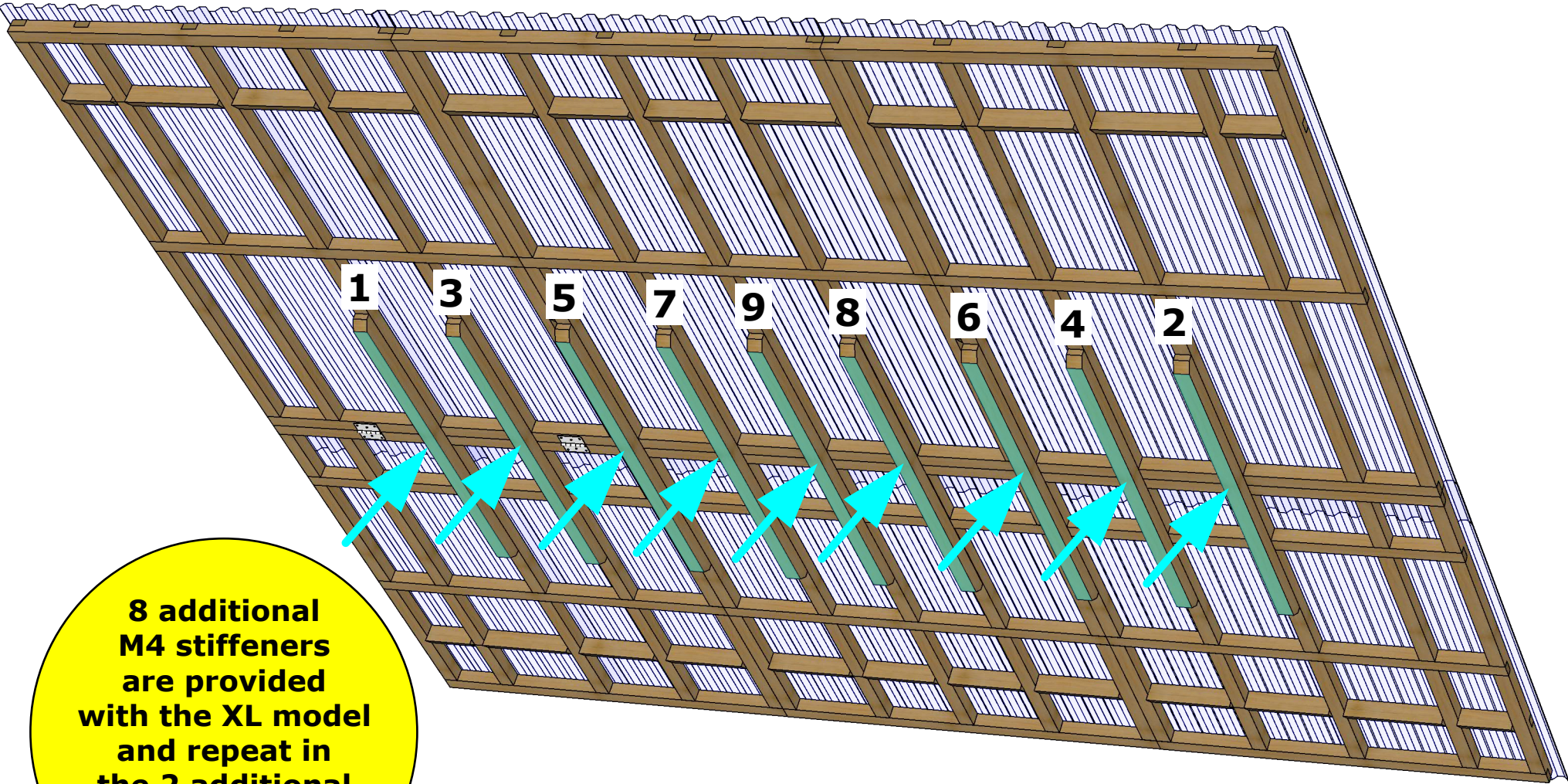
**11.2** While pushing up on the stiffener to make it flat against the roof frame, drive T25 screws through the stiffener into the roof frame starting from the middle of the stiffener and working your way out. See FIG 11A for pattern. Repeat this until all screws for the stiffener are tightly screwed in. The stiffener should be flush against roof line.

**11.3** Now go to the right end of the greenhouse and repeat the process for the stiffener in that position. Now start switching back and forth from end to end until you get all 9 installed. Roof will remain flexible to be able to absorb load of snow or wind pressure, but stiffeners will keep it flat.



While it's not super critical that you follow the exact pattern, it will in fact yield the best result. If you get off, it will not affect the structural integrity.

9 M4 Roof Stiffeners 6 T25 Screws In Each



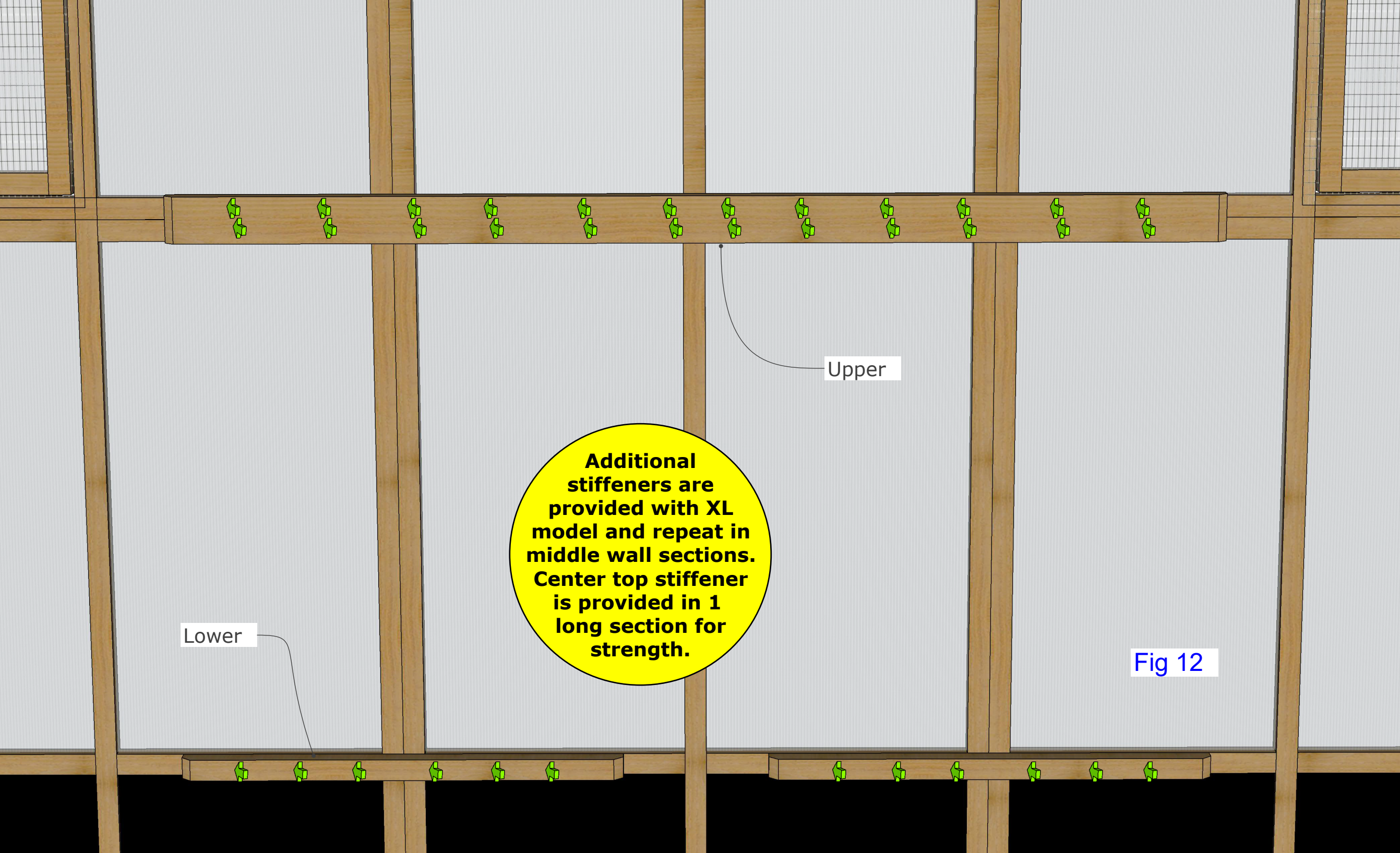
8 additional M4 stiffeners are provided with the XL model and repeat in the 2 additional middle roof sections.

Fig 11B



Strengthen the front wall...

- Install Front Wall Stiffeners:** From inside the greenhouse, you'll be installing 2 wider and two of the narrower wall stiffeners on the front wall of the greenhouse. The position of the stiffeners is indicated in FIG 12.
- 11.1** Position one of the narrower wall stiffeners centered over the lower wall seam (left or right) with beveled ends facing out, and attach to wall using T25 screws as indicated in the illustration. Push the wall from the inside, or have a helper push the wall from the outside to make the wall flat while affixing the stiffener. Repeat for other side.
- 11.2** Position one of the wider wall stiffeners centered over the upper wall seam (left or right) with beveled ends facing out, and attach to wall using T25 screws as indicated in the illustration. Push the wall from the inside, or have a helper push the wall from the outside to make the wall flat while affixing the stiffener. Repeat for other side.



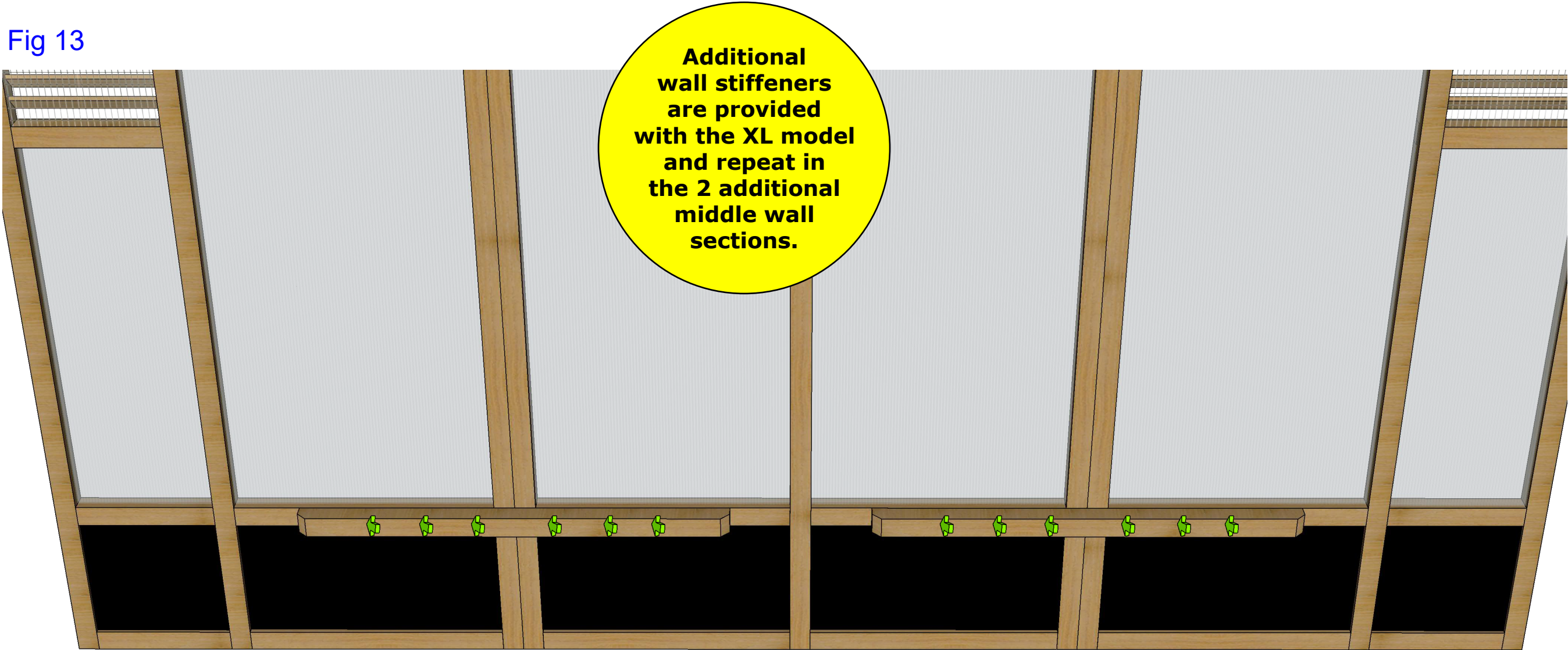


Strengthen the back wall...

**Install Back Wall Stiffeners:** From inside the greenhouse, you'll be installing 2 of the narrower wall stiffeners on the back wall of the greenhouse. The position of the stiffeners is indicated in FIG 13.

**11.1** Position one of the narrower wall stiffeners centered over the lower wall seam (left or right) with beveled ends facing out, and attach to wall using T25 screws as indicated in the illustration. Push the wall from the inside, or have a helper push the wall from the outside to make the wall flat while affixing the stiffener. Repeat for other side.

Fig 13







Only tighten screws just enough to make snug and don't spin them and strip out the wood. Go slowly, or if your drill has a "clutch" setting, use the lowest number that will still tighten the screws. Screws are Stainless Steel and are actually a little soft. Apply firm push pressure when driving to not strip head.

**14.1 Install Entry Door:** The entry door has the door side half of the hinges pre-installed for you and the holes on the door frame side pre-drilled. Start at either the bottom or the top and using E4 Bevel Head screws and included phillips bit attach 4 hinges with three screws each into the pre-drilled holes. Wedging something under the door to hold it at the proper height is helpful. See FIG 14.

**14.2 Install Sliding Door Latch on Entry Door:** Using E3 Larger Pan Head Screws, position sliding gate latch as indicated in FIG 14A such that the sliding bolt goes into the hole in the door handle when it is in the closed position. Slide back and forth to confirm smooth operation.

While holding the gate latch in place, use the provided drill bit and your drill to make a small pilot hole in the two positions as indicated and then attach using the E3 screws. The gate latch only requires the 2 screws provided.

**14.3 Install Gravity Latch On Vent Doors:** Using E5 Smaller Pan Head Screws, position gravity gate latch as indicated in FIG 14B and screw into pre-drilled holes. Repeat for other side.

**14.4 Door Hold-Back Keepers:** Using hardware as shown in figure 14C, you can at your preference, position provided hook and eye hardware to keep vent doors open.

Fig 14A



E3

E4



Fig 14C

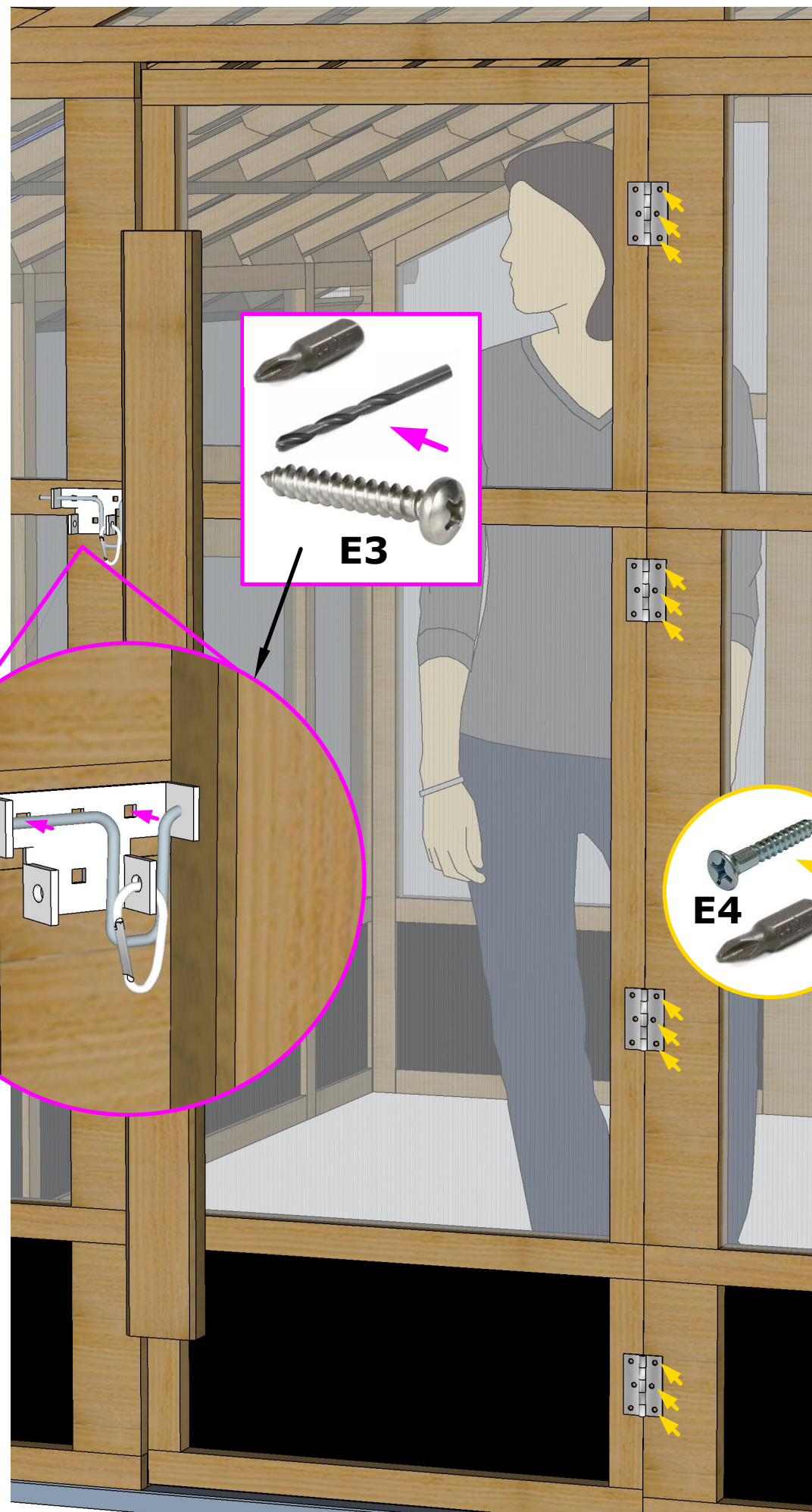


Fig 14B



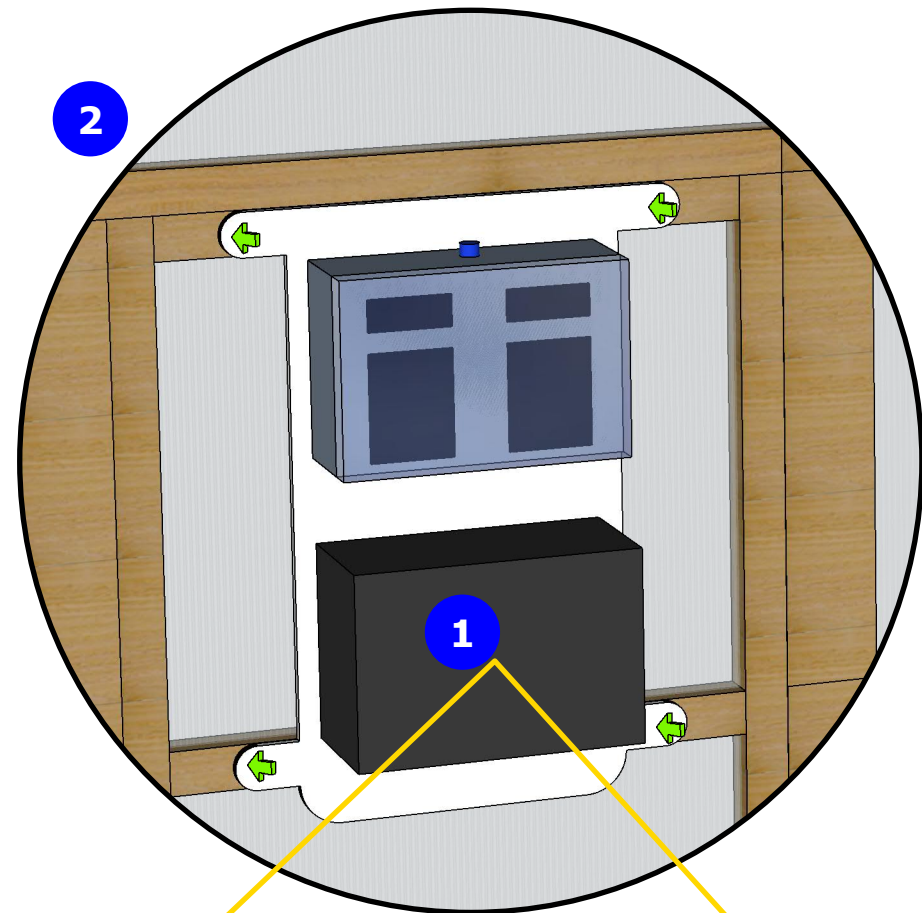
E5

Fig 14





Optional AVM System  
Panel Mounting Instructions



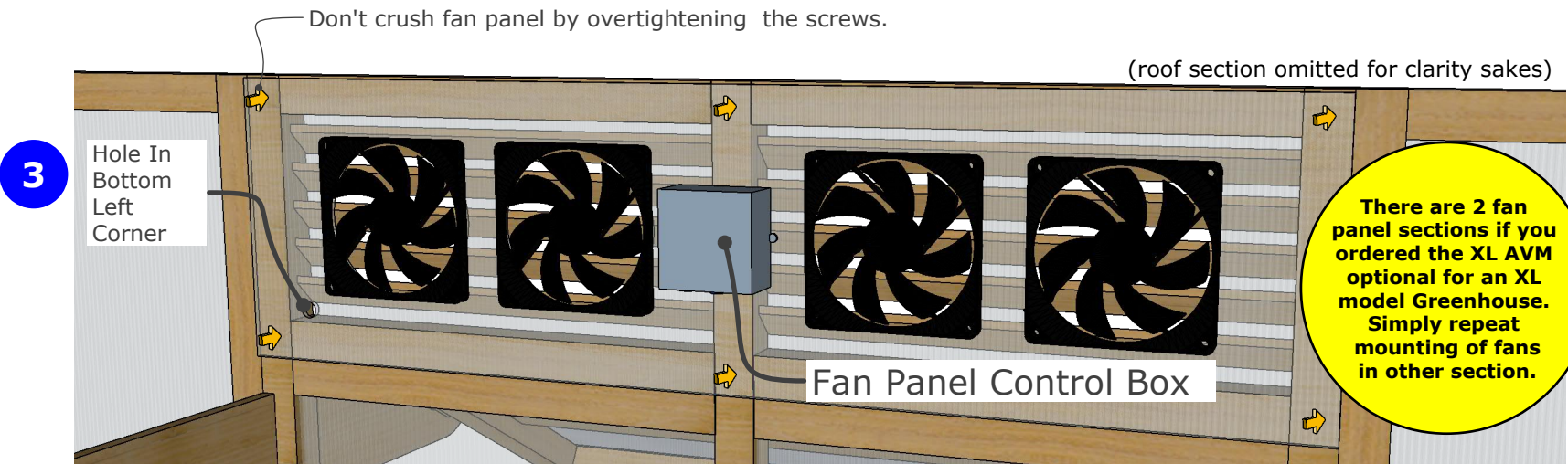
Hardware & Control  
Cable May Be Inside  
SOCKiT Box

**15.1 Unpack Hardware & Cable:** Open the SOCKiT box and retrieve the controller cable and the bag of hardware.

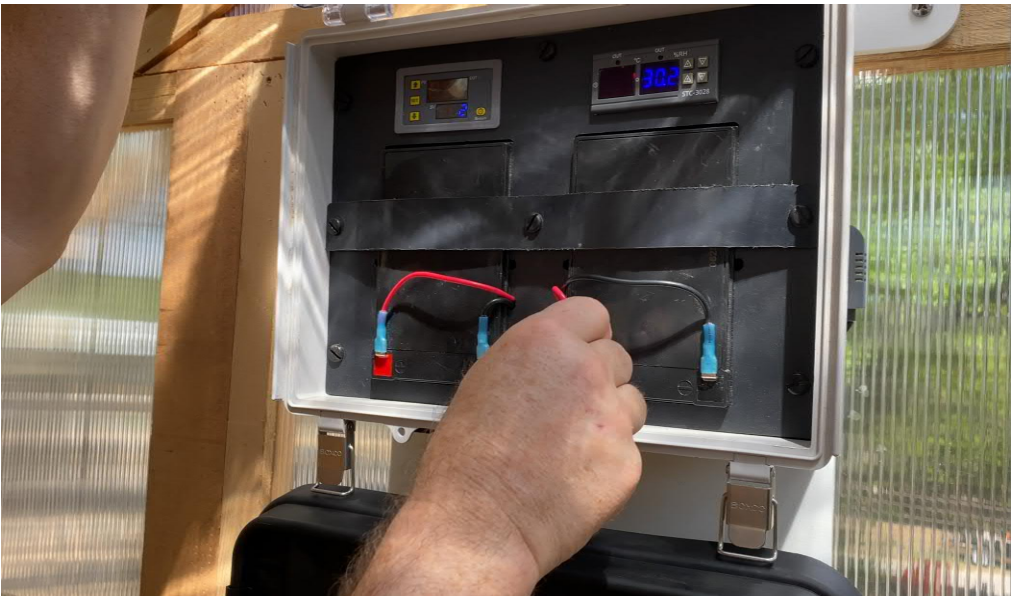
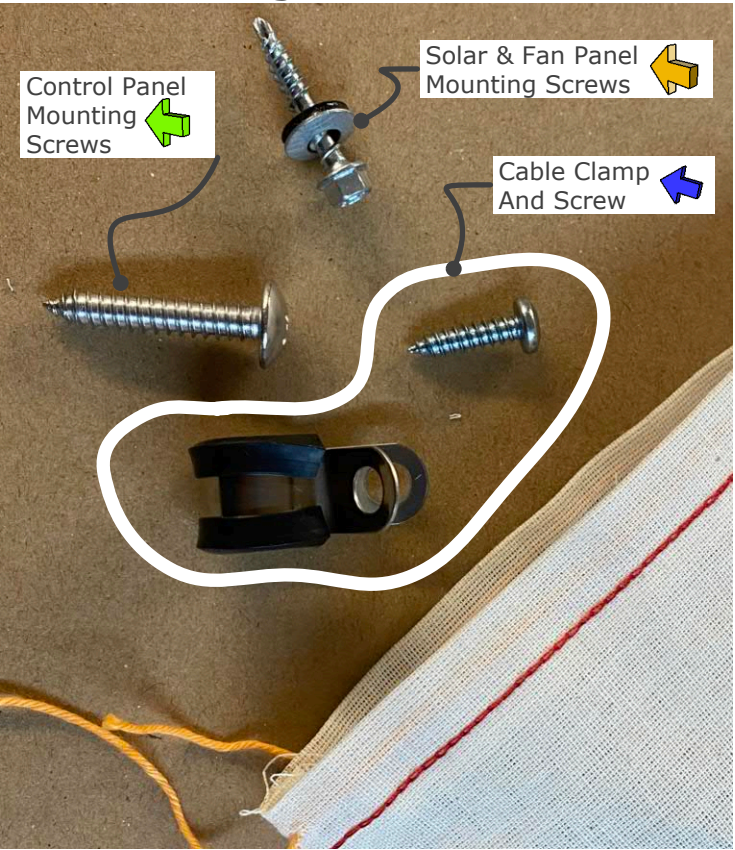
**15.2 Mount Controller Board:** On center right inside wall, mount controller board using 4 screws as indicated. Be careful, board is heavy because of the batteries.

**15.3 Mount Fan Panel:** Taking care to protect fan blades... mount the fan panel as indicated using E6 rubber washered screws as illustrated. Don't crush plastic. Only tight enough to hold panel in place. Screws are self piercing.

**15.4 Connect (+) Battery Leads:** Activate the fan panel by opening the latches on the controller box and connecting the positive battery terminals. Controllers will energize to thier factory settings.



Hardware Bag Contents



**4** Hook up positive lead **RED** on both batteries. Controllers will activate



Fan Panel  
Control Box

Solar Panel  
(next page)

Control Cable  
This Step

2

**16.1 Run Main Controller Cable** - Route main control cable as illustrated using the cable clamps and screws provided to affix on wall in the approximate locations shown. **X**

**16.2 Connect The Fan Panel End** - Gently rotate the cable end into the 4 pin female connector until the index lines up so that it can be pushed into place. Finger tighten the collar to hold the pin into the receptacle. Cable is reversible.

**16.3 Connect The Controller Box End** - Gently rotate the cable end into the 4 pin female connector on the control panel until the index lines up so that it can be pushed into place. Finger tighten the collar to hold the pin into the receptacle. **Depending on conditions in the greenhouse and the interval timer, the fans may or may not turn on at this point. Keep clear of them in case.**

Read next 3  
pages to fully  
understand AVM  
concept. Same for XL  
except X2 and cable  
routing which is  
illustrated on  
page 28.

Twist gently to align  
connector so that it  
can be pushed in...

Collar

Route cable as shown.

1

4 Pin Connector

2

4 Pin Connector

3

Use screws and  
clamps shown on  
prior page.

1



**17.1 Install Solar Panel Bracket:** Identify the backside of the bracket. It is slight shorter and will have two pre-drilled holes in it. Gently force fit into place the bracket between the two roof/wall support brackets that are protruding from the greenhouse by spreading apart the brackets and slipping into place. The notches on the ends of the solar panel support bracket force fit into slots on the roof/wall supports as indicated in FIG 16A. You may need to gently tap roof/wall supports onto the notches of the solar panel support with a hammer or your hand.

After its in position, use two T25 screws and screw through the backside of the solar panel bracket into the front wall of the greenhouse to stabilize the bracket.

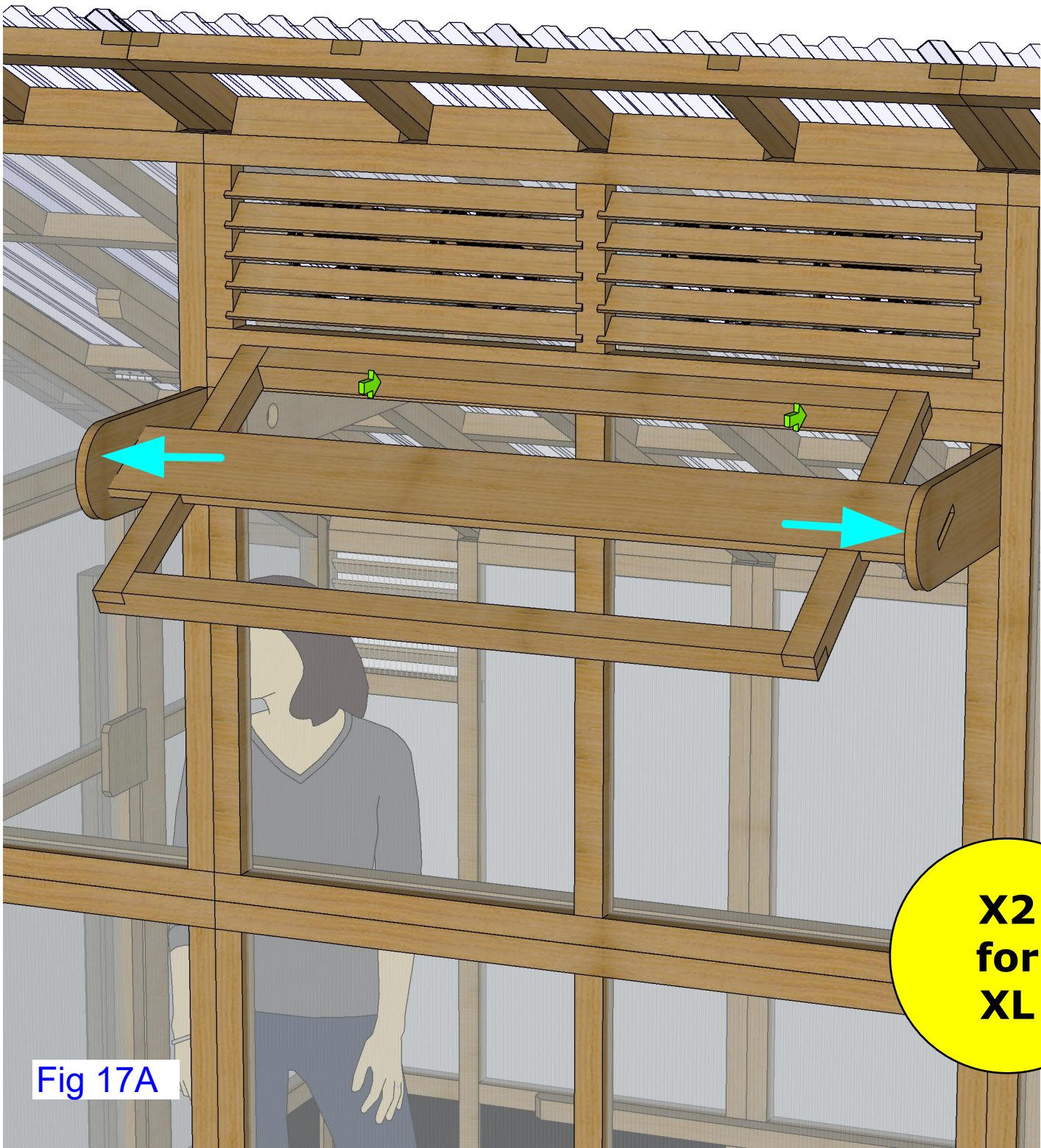


Fig 17A

**17.2 Install Solar Panel:** Position solar panel as indicated in FIG 16B and using 6 of the E6 neoprene washer screws, attache the solar panel to the bracket. Only tighten screws enough to pin panel into place. After installed, route solar panel wire as indicated in the illustration.

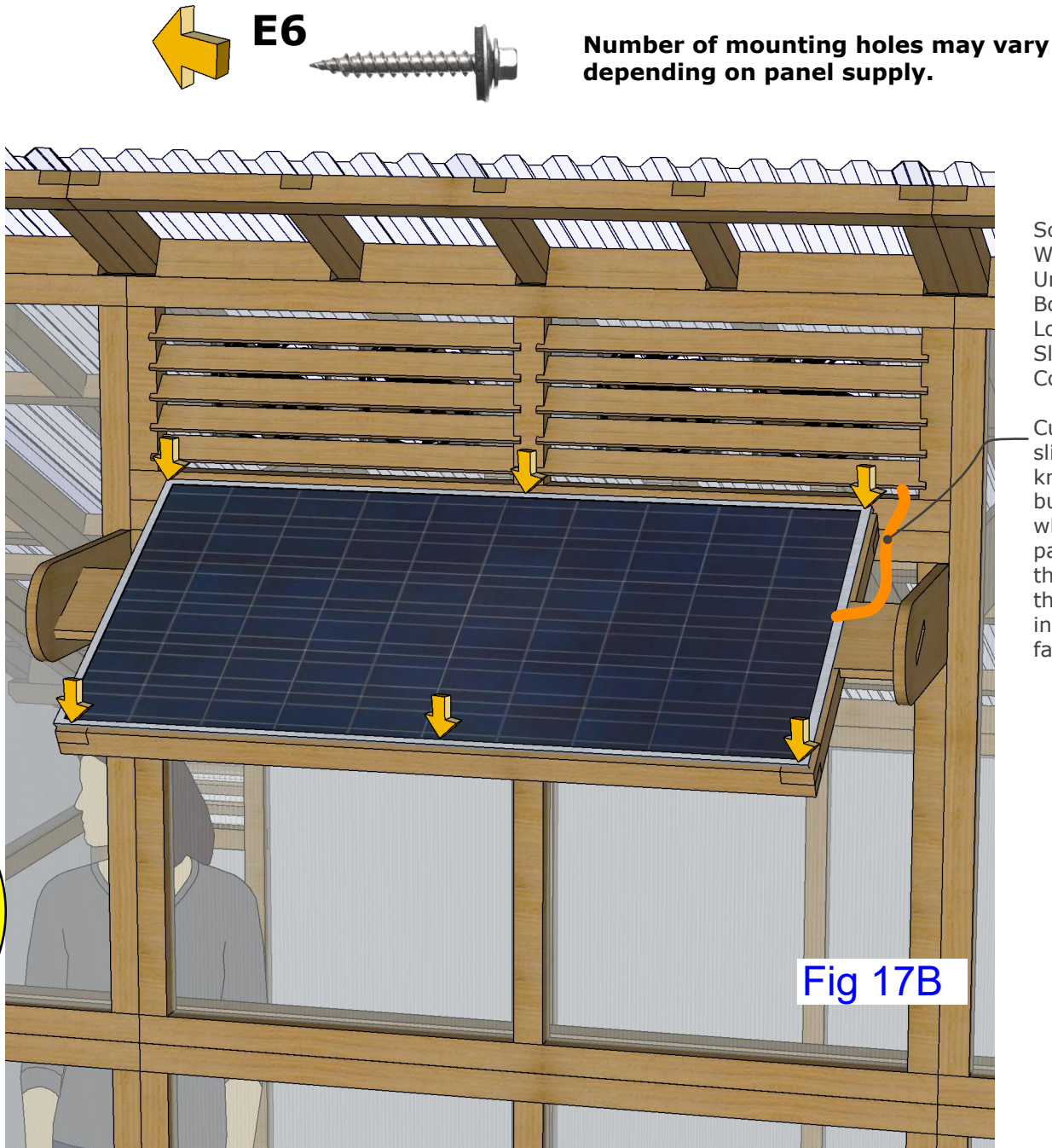
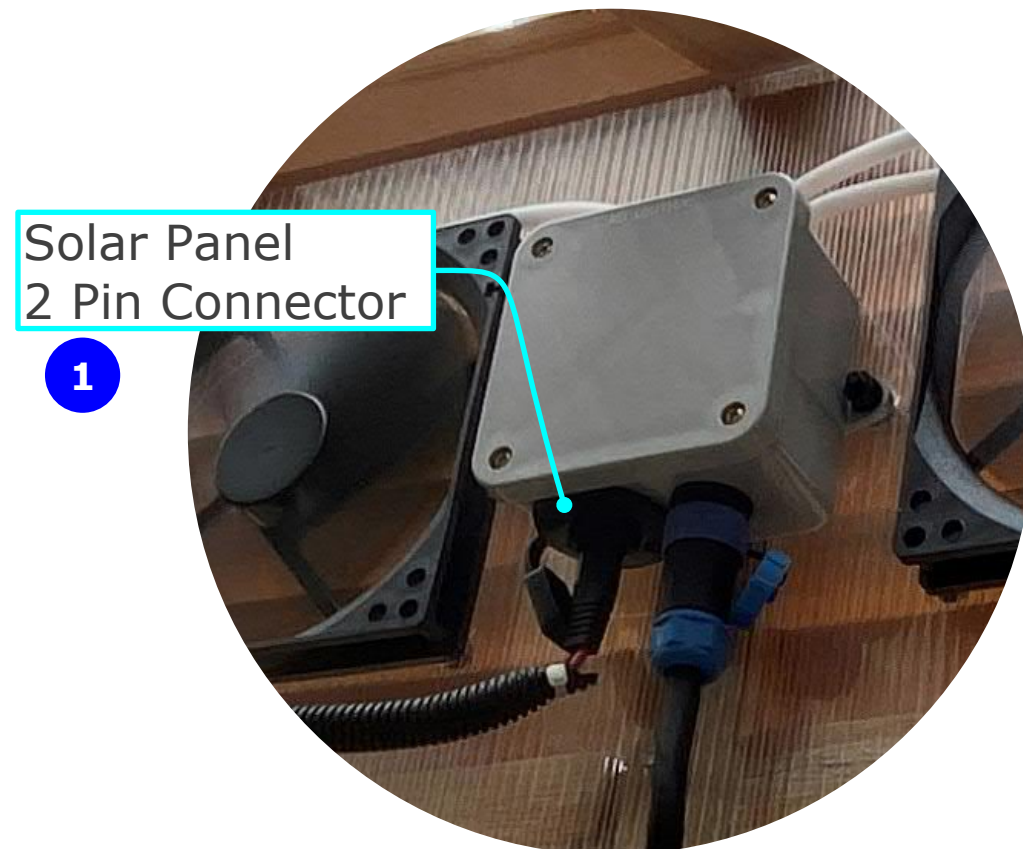


Fig 17B



**18.1 Plug In Solar Panel:** Gently pull any remaining solar panel wire through the hole in the fan panel and plug it into the 2 pin connector on the bottom of the fan panel control box. Firmly push into place making sure pins are oriented correctly and male plug is completely seated into the female receptacle.

**18.2 Zip Tie Solar Panel Wire:** You can zip tie the solar panel wire to the main controller cable in a couple of places so that it is held in place.



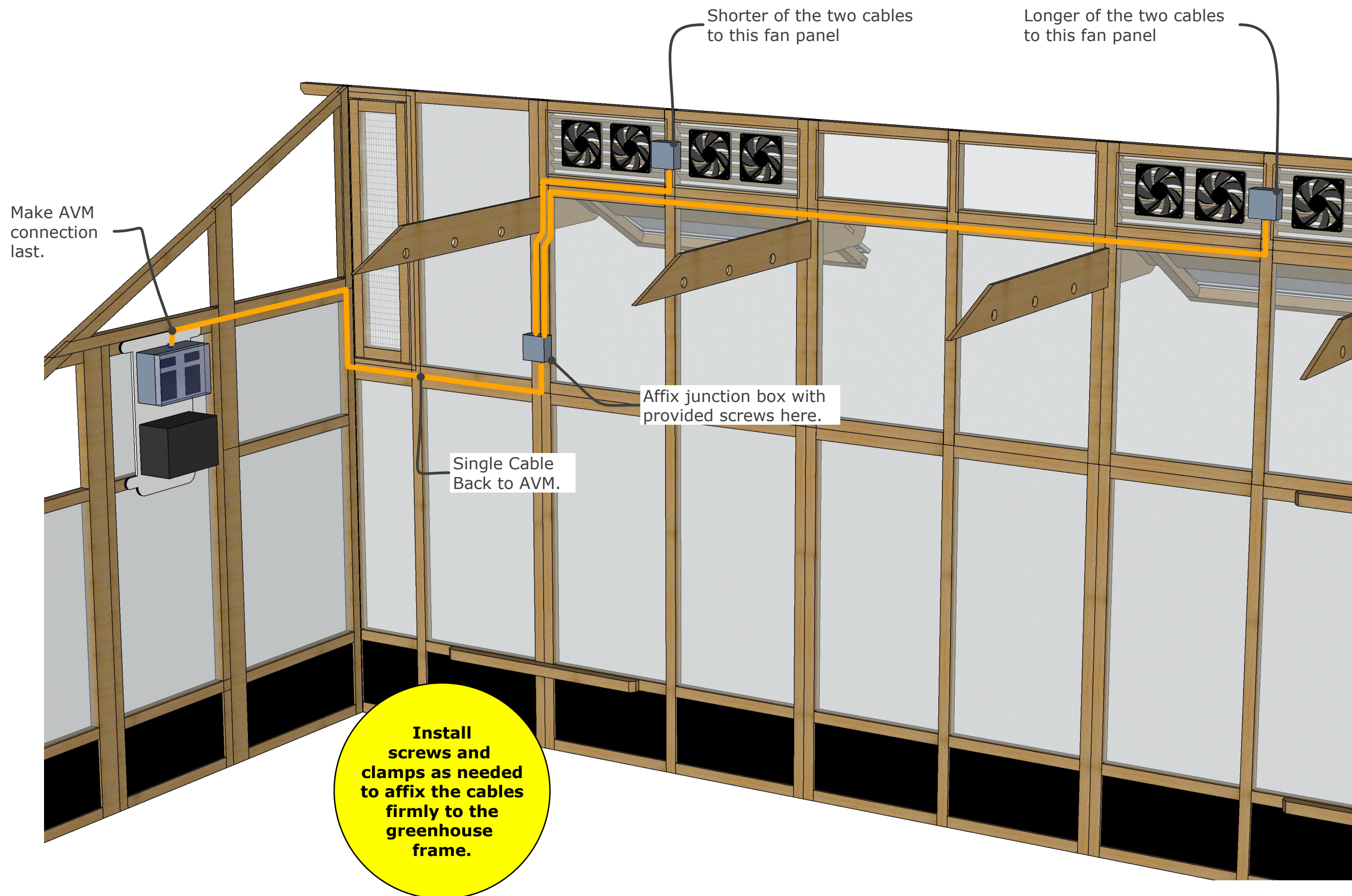
**100% completely operational  
just as it is set now...**

**OR**

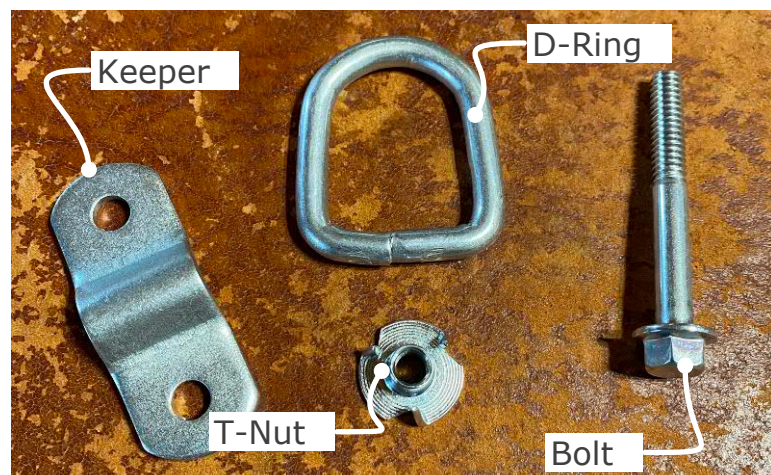
**Full operational instructions  
For the AVM can be found  
by scanning the QR code  
on the control box.**











**19.1 Drill Holes:** Using provided 1/4" drill bit and your cordless drill... position D-Ring "Keeper" in suggested positions as indicated in the illustrations and drill holes through the cedar wood 2x2's.

**19.1 Install the D-Rings:** Using the keeper to capture the D-Ring, insert a bolt through the keeper, through the wood and place a T-nut onto the back side. Using a wrench or socket, tighten the bolt until the T-Nut is seated into the wood.

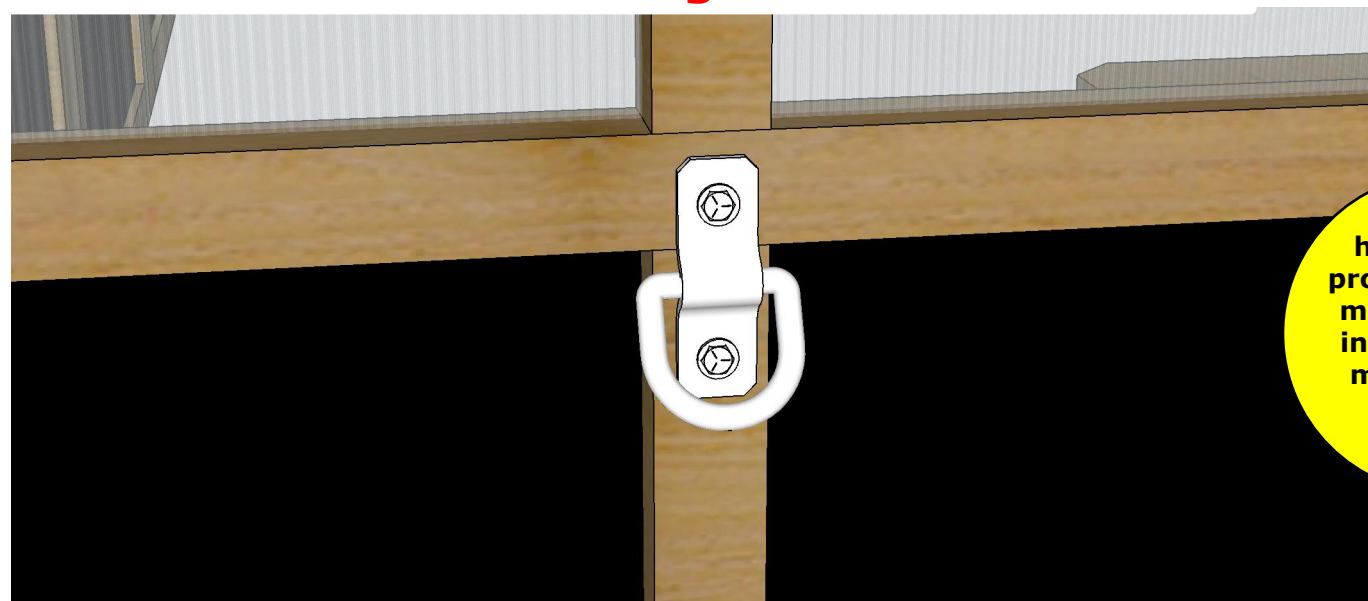
Repeat for the additional D-Rings in the illustrated suggested locations.

**Winds that are tropical storm force or greater (about 40 mph) can topple an un-anchored structure without warning.**

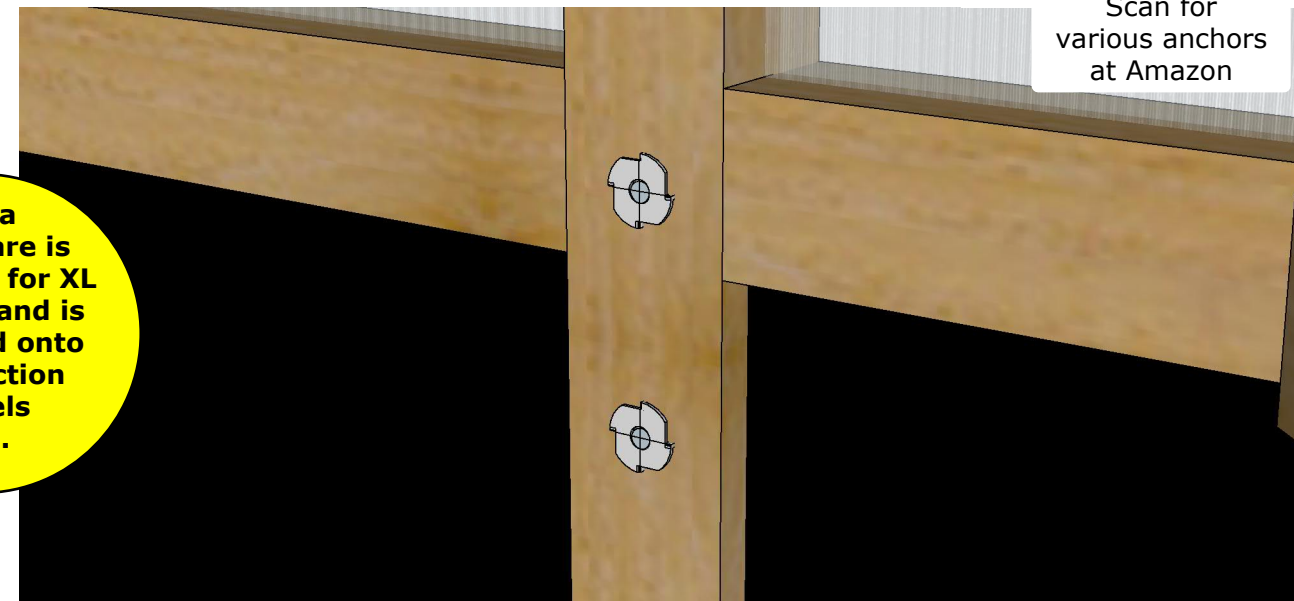
**You will have to choose a ground anchor type suitable for your soil conditions. Custom anchoring is possible. Call for guidance.**



Scan for various anchors at Amazon



Extra hardware is provided for XL models and is installed onto mid-section panels too.



Attach all D-Rings to ground anchor of your choosing.



Anchoring Video

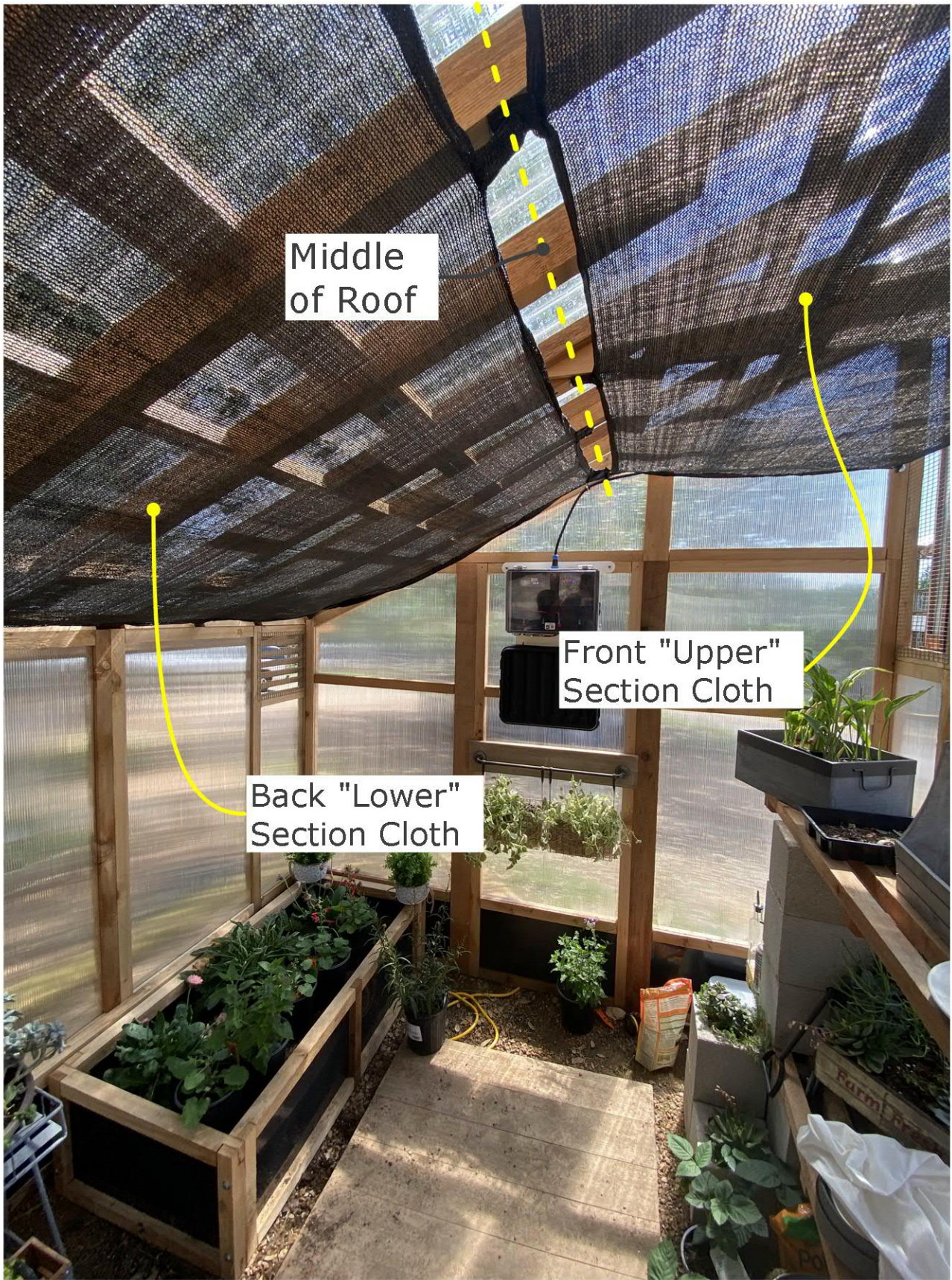


# Optional Shade Cloth 2 Piece System Installation Instructions

Reading all pages to the shade cloth install will help get it into your head before starting. It's held in place by cup hooks and grommets in the corners, and magnets attached to metal washers that you will install up into the roof frame along edges.



Photo: Back right corner



Left side looking right from doorway.



Layout on ground and identify cloth sections...

Back "Short" Side

XL middle sections are just longer but attach at like places.

Left "Door" Side

Right Side

Back "Lower" Shade Cloth Section (overhead view)

Red orientation tag

Midway in roof

Front "Upper" Shade Cloth Section (overhead view)

Blue orientation tag

Grommets Pouches In Corners

Front "Tall" Side of Greenhouse

Magnet Pouches Along Edges





1

2

3

4

5

Magnet pouches will line up to roof frame positions.

Washer



Screws



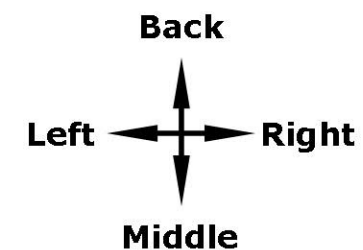
## Instructions For Back "Lower" Section

**Concept:** Deep dish metal washers are placed up in roof frame and strong Neodymium rare earth magnets that are sewn into pouches in the shade cloth attach to the metal washer points to hold the shade cloth in place along the edges. Stronger more positive hooks and grommets hold corners. Washers should be placed where the cloth is stretched "snug" but not so tight that it pulls loose. Magnet pockets are sewn to coincide with mounting points but do not have to be perfect as the material stretches. Corners have grommets for hooks.

**Install Corner Hooks First:** At positions 1,5,6 & 10 install hooks so that the cloth is stretched out firmly. Use the drill bit provided for assembly if needed to drill a pilot hole.

**Next Install Metal Washers:** In positions 2,3,4,7,8 & 9 install metal washers as indicated such that the magnets hold taught the shade cloth. (XL models will have more middle attachment points)

Magnets in pouches attach to the washers.



Midpoint  
In Greenhouse  
Roof

Red Tag  
Above  
Door

6

7

8

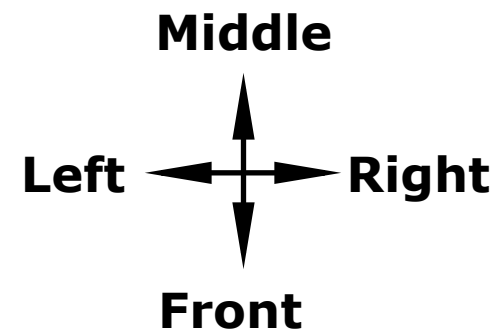
9

10





Blue Tag Pouch With Grommet Attaches To Hook Above Door On Same Hook With Red Tag.



## Back "Lower" Section Shade Cloth Installed First

Midpoint  
In Greenhouse  
Roof



These magnets  
stick to the  
other magnets



Front Hook

Mid-Hook

Front Hook

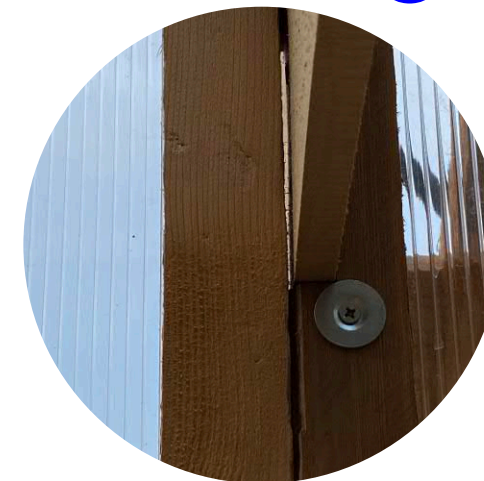
## Instructions For Front "Upper" Section

**First:** Install positions 1 & 3 over hooks in positions 6 & 10 from prior step. Attach magnets in position 4,2,5 on top of other magnets installed in prior step to hold up middle.

**Next:** Install hooks in upper corners as illustrated in positions 6 & 10 such that cloth is stretched taught and hook grommets over hooks.

**Lastly:** Install washers on **FRONT WALL** positions 7,8 & 9 (more positions for XL) such that pouches with magnets can attach to washers holding the leading edge of the shade cloth in place.

**Done!** Sections can be removed as needed and stored in canvas bag provided.





# Optional Magnet Door Screen

**21.1 Top:** Using the provided thumbtacks center the screen over the door opening and at top of the door frame and tack into place. Using the shorter of the 5 cedar furring strips (30" long) attach the seamed edge of the screen to the top door frame by screwing screws through the furr strip in the pre-drilled holes and into door frame... capturing the seamed edge tightly.

**21.2 Side:** Using the provided thumbtacks align left side going down straight and use two of the longer cedar furring strips to attach the seamed edge down the side using the same procedure as in step 1.

**21.3 Side:** Repeat for the other side making sure to leave screen loose enough for the magnets in the center to easily "click" shut. Discard thumbtacks safely when complete. They are used only to position screen during the installation.

**4 35½ Inch Side Strips**      **1 30" Top Strip**

**40 Small Gold Screws (several extras)**



**Bit**



**Bit Holder**



**Thumb Tacks**

1" wide furr strips have pre-drilled holes about every 8 inches. Install with countersink side facing out.

