



GRANDIO

G R E E N H O U S E S

2015 GRANDIO ASCENT 8x8 KIT



Grandio Ascent 8x8 Shown In Image

GREENHOUSE USER MANUAL

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2015 Manual Edition Extendable Greenhouses



Dear Valued Customer,

We would like to congratulate you on your new Grandio Greenhouse purchase. We are confident that you have made the right decision in choosing Grandio. Our greenhouses are made with high quality aluminium and polycarbonate and will last for many garden seasons to come.

Please take the time to carefully read this instruction manual for an easier and more enjoyable assembly experience.

Cheers!

Grandio Greenhouses

Save this owner's manual for future reference and if you need our help.

**CONTACT OUR CUSTOMER SERVICE
DEPARTMENT at:
1-866-448-8231**

Hours: 8:30a.m.-5:00p.m. Monday through
Friday (Mountain Standard Time)

**Backyard Living Source
9543 W. Emerald St., Suite 101
Boise, ID 83704
www.grandiogreenhouses.com**

IMPORTANT! PLEASE READ BEFORE BEGINNING ASSEMBLY

Before you begin take time to complete this check list. ✓

- ☐ Take inventory of all parts using the parts list at the back of this manual.
- ☐ Be cautious where you place the polycarbonate panels as they will burn grass or plants if left on top of them in direct sunlight. Note that clear film side of panels should always face the sun and opal film side faces inside greenhouse. Panels may scratch easily so be very careful what you clean them with.
- ☐ Plan out when and where you are going to place the greenhouse, we recommend that you place it in an area that will receive direct sunlight and will be protected from the wind as much as possible
- ☐ It will take at least (2) people to put the greenhouse together.
- ☐ Before your build, make sure you are allowed to build it! Consult all building codes, as well as City or Municipality ordinances and HOA's, as you may need a permit or documentation before you build.
- ☐ Contact your insurance company to make sure your Grandio Greenhouse will be covered on your policy.
- ☐ Call your local utilities companies before digging.
- ☐ Do not attempt to begin construction on a windy day.
- ☐ Your greenhouse should be built on a flat level surface allowing for drainage.
- ☐ Read this entire manual to get familiar with all pieces and parts prior to beginning assembly. Follow the steps outlined in the order presented!



IMPORTANT! SAFETY INSTRUCTIONS



FAILURE TO FOLLOW THESE WARNINGS MAY RESULT IN SERIOUS INJURY OR PROPERTY DAMAGE AND WILL VOID WARRANTY.

To ensure safety, do not attempt to assemble this product without following the instructions carefully. Check entire box and inside all packing material for parts and/or additional instruction materials. **Before beginning assembly, read the instructions and identify all parts using the hardware identifier and parts list on pages 67-76. Complete assembly and proper usage are essential to reduce the risk of accident or injury when using your Grandio Greenhouse.**

CAUTION: Do not leave polycarbonate panels laying on grass or leave in the sun or extreme heat, keep in a cool dry place until they are to be installed!! (May cause burning to plants or grass if left directly on top of them, also may damage panels due to the protective film adhering to panels.) Panels may scratch easily. **Do Not** use solvent cleaners.

- Each of the polycarbonate panels have a clear film side that should always face the sun, and an white film side which faces inside. The clear side has a UV coating and we recommend marking a small "x" on a corner of each panel to determine which side has the UV Coating as you cannot visually determine with your eye in the case of future disassembly.
- Due to shipping, the grooves of some of the aluminum profiles may be too small to insert into the polycarbonate sheet, you may carefully use a screwdriver to pry the framework open so the polycarbonate sheet can be inserted smoothly.
- Do not use or store hot objects such as grills, blow torches, welding equipment, etc. in or near your greenhouse.
- Do not allow children or pets to play in greenhouse or in the set up area until assembly is complete.
- If using a ladder during assembly, use extreme caution.
- A clean level surface is essential to maintaining the solid integrity of the structure, Install the base correctly as described in manual. Please anchor the greenhouse down to a firm and level base.

TOOLS YOU WILL NEED FOR ASSEMBLY

- | | | |
|----------------------------|---------------------------|--------------------------------|
| • Tape Measure | • 2 Step Ladders | • Safety Glasses |
| • Level | • Work Gloves | • Drill Is Helpful |
| • Carpenter Square | • Permanent Marker | • Knee Pads |
| • At Least 2 Adults | • Masking Tape | • Folding Utility Table |



When you see this icon pay special attention to the helpful tips we have provided that will make installation more efficient.

PREPARE A FOUNDATION FOR YOUR GRANDIO GREENHOUSE

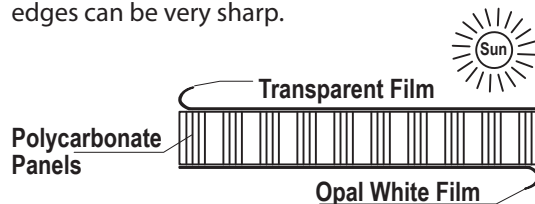
Before assembling your new greenhouse, a proper foundation must be prepared. A number of anchoring options are acceptable, based on wind and ground conditions in your area.

Pre-read pages 6-9 for base kit assembly information.

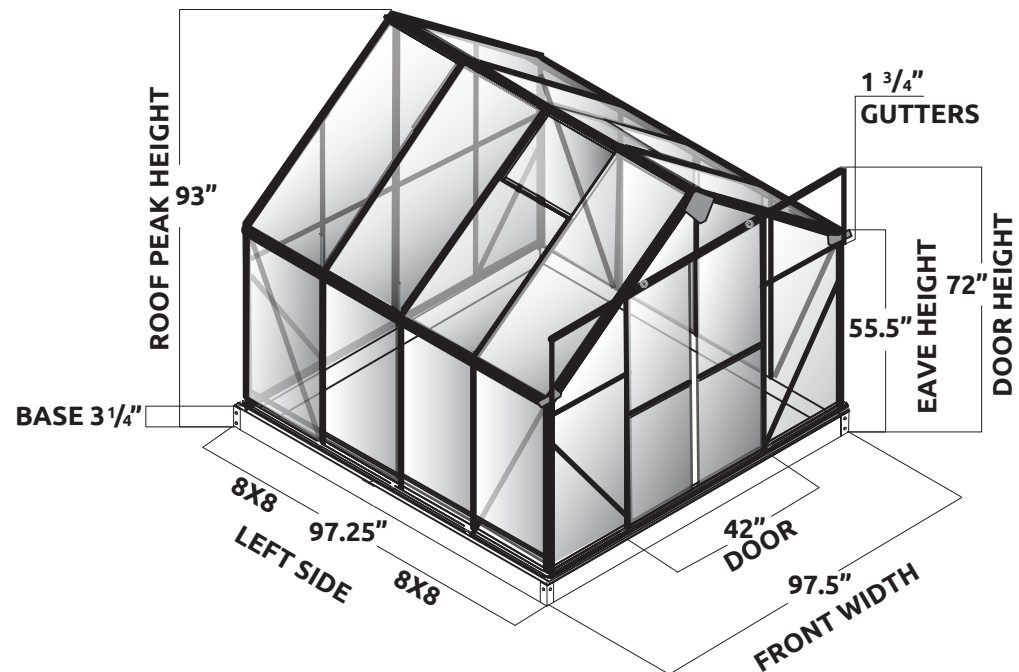
Go to **www.grandiogreenhouses.com** for foundation ideas and tour our online learning center for tips, tricks and videos for putting your greenhouse together.

▲ IMPORTANT: POLYCARBONATE PANELS ▲

The UV-Protected side is covered with transparent film and must face toward the sun. The side covered in white film will always face the interior of the greenhouse. We suggest you peel all film off completely prior to assembly and use a permanent marker to place a small "X" on the lower right corner of each panel on the transparent side that faces the sun, each panel has a sticker labeling the panel number and this side always faces the sun or outward as well. **DO NOT REMOVE LABELS UNTIL YOU INSTALL PANELS.** The "X" is suggested in case you dis-assemble your greenhouse in the future so you may identify which side has the UV coating. Always use gloves when handling the polycarbonate panels as the edges can be very sharp.

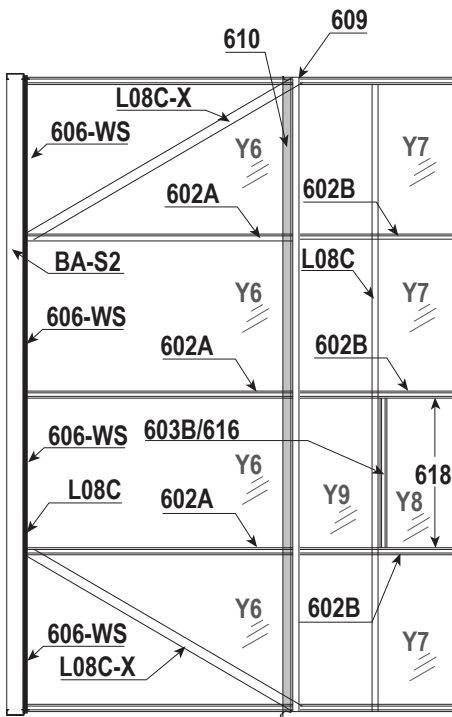


8X8 GRANDIO ASCENT BARN STYLE GREENHOUSE DIMENSIONS

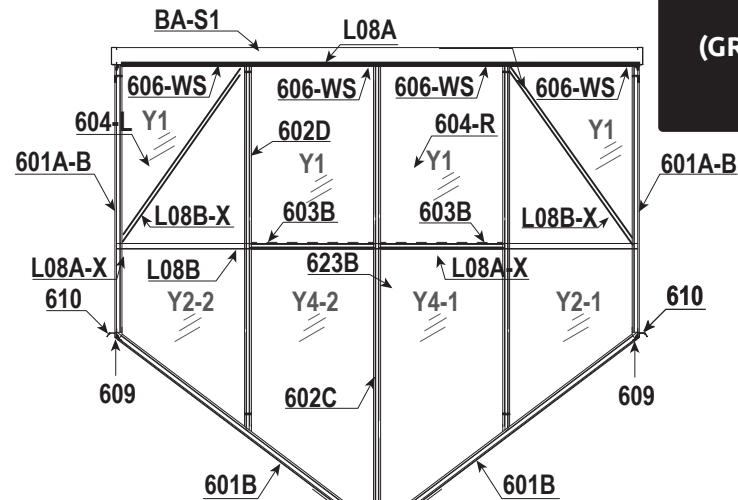


**DIAGRAM SHOWS THE ASSEMBLED
(8'x8' BASIC CONFIGURATION)
(GRA-ASC-8A & GRA-ASC-8P & GRA-BA-8)
8x8 ASCENT KIT INCLUDES, FRONT,
BACK, BASE AND SIDES.**

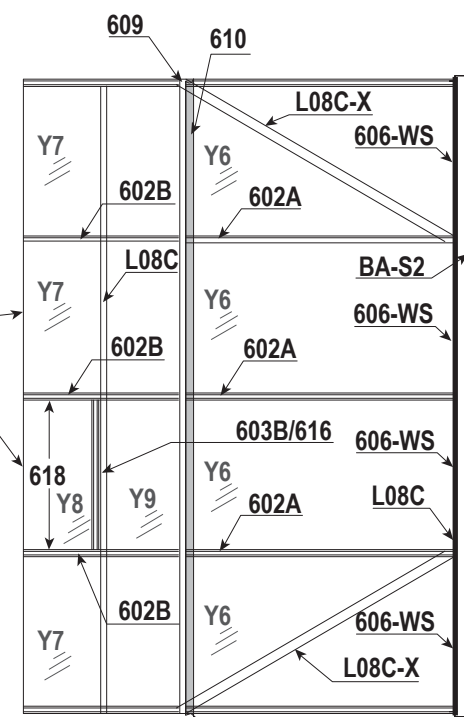
LEFT SIDE



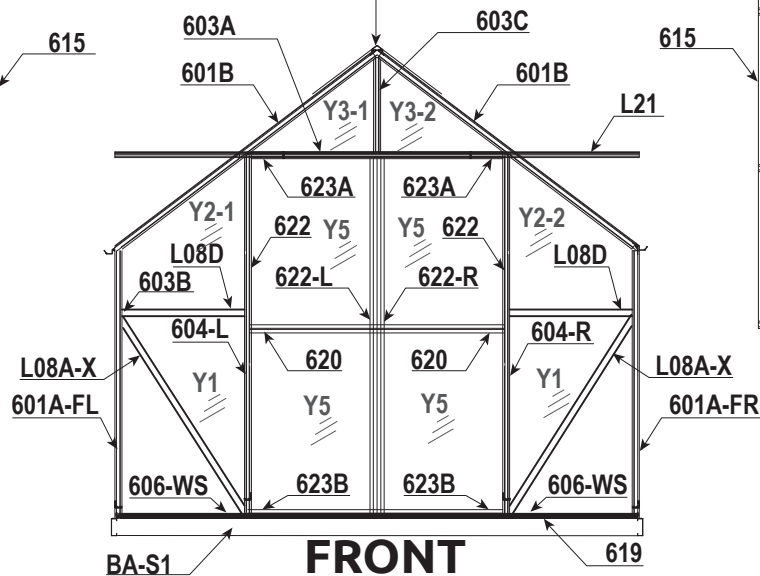
LEFT SIDE



RIGHT SIDE



RIGHT SIDE



FRONT

Outside View



GRANDIO[®]

G R E E N H O U S E S

ASSEMBLY INSTRUCTION STEPS

STEP ONE: BASE ASSEMBLY

STEP TWO: FRONT ASSEMBLY

STEP THREE: BACK ASSEMBLY

STEP FOUR: MIDDLE ASSEMBLY

STEP FIVE: DOOR ASSEMBLY

STEP SIX: INTERIOR ROOF SUPPORTS

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BASE KIT ASSEMBLY INSTRUCTIONS

Pre-Plan The Placement Of Your Structure

Allow enough room to get a wheel barrow in and around your structure.

Be sure the orientation will allow for proper drainage in and around your greenhouse.

It is recommended that you place your greenhouse in an area of your property that receives the most sunlight but is also somewhat protected by trees, fencing or your home for wind protection and also to keep the temperature up during early spring and late fall.

The best placement depends on the features of your property, it is suggested in most scenarios to have your greenhouse face South on its broadest side and to have the door face East or West depending on typical wind directions in your area. Do not worry if your orientation will not allow for the placement to be as suggested, as a greenhouse that is facing North is better than no greenhouse at all.

Avoid building your greenhouse at the base of a slope as these are often frost pockets where cold air collects, this will not be good for your greenhouse in keeping the temperature up inside.

Extreme Wind Conditions: If you live in a windy location there is no way to build a 100% storm safe greenhouse, but there are a number of things you can do to minimize the chance of damage. Ensure that the base is level and square, be sure all panels are tightly in place and that all aluminum extrusions are tight. The main problem is usually that wind gets into the greenhouse and the pressure pushes a panel out and then the force of the wind on the interior causes more damage. It is best if you are expecting an extreme weather event that you disable any auto roof vents and make sure all doors and windows are closed and locked shut. Also you may need to build a wind break for extreme condition areas where wind is constant and extreme.

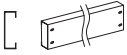


It is ideal for your greenhouse to have water, electricity and even gas plumbed into place before construction. This will make watering plants and keeping the temperature and air circulation to the max efficiency.




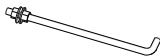
For Cement Base Installation: We suggest you use wedge style concrete anchoring bolts to secure your structure.

For Deck Base Installation: We recommend you use a set of anchoring bolts to secure your structure.

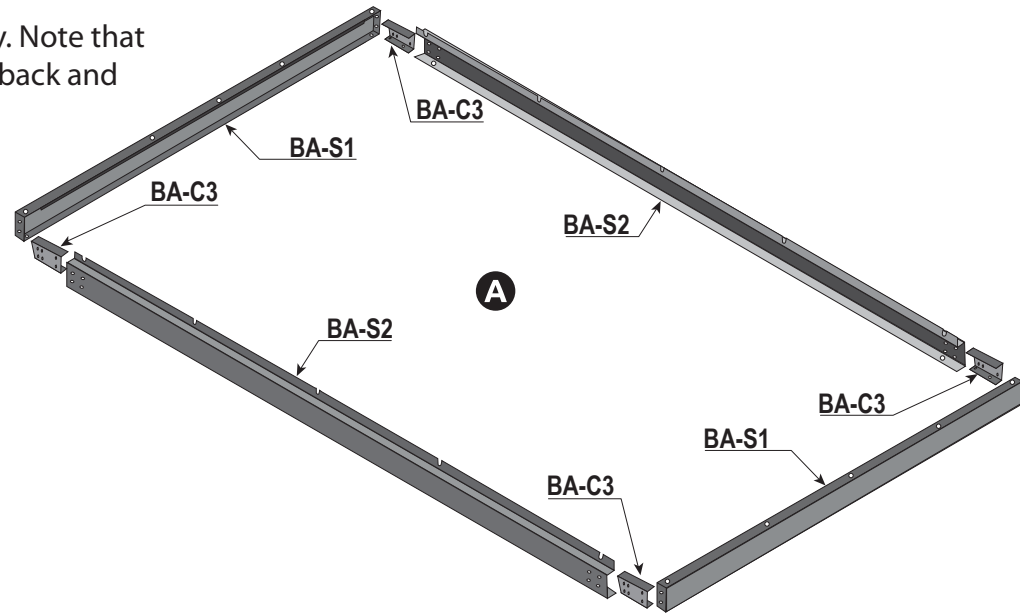
For Earth Installation: We recommend you use the anchoring system provided and bury corner posts into the ground and seal into place with quickrete.

BASE KIT PARTS LIST FOR 8'X8'

GRAPHIC	PART NAME	SIZE/LOCATION	QUANTITY
	BA-S1	97 3/8 in / 2474 mm	2
	BA-S2	94 1/4 in / 2394 mm	2
	BA-C3	5 7/16 in 138 mm	4

GRAPHIC	PART NAME	SIZE/LOCATION	QUANTITY
	BA-S03	M6*14	28
	BA-M03	BOLT	28
	W05	CLIP	9
	BA-A1	9 13/16 in / 250 mm	4

1.1 Layout all base kit pieces to prepare for assembly. Note that one **BA-S1** will be at the front and one will be at the back and the **BA-S2's** will be on the sides. See diagram **A**.



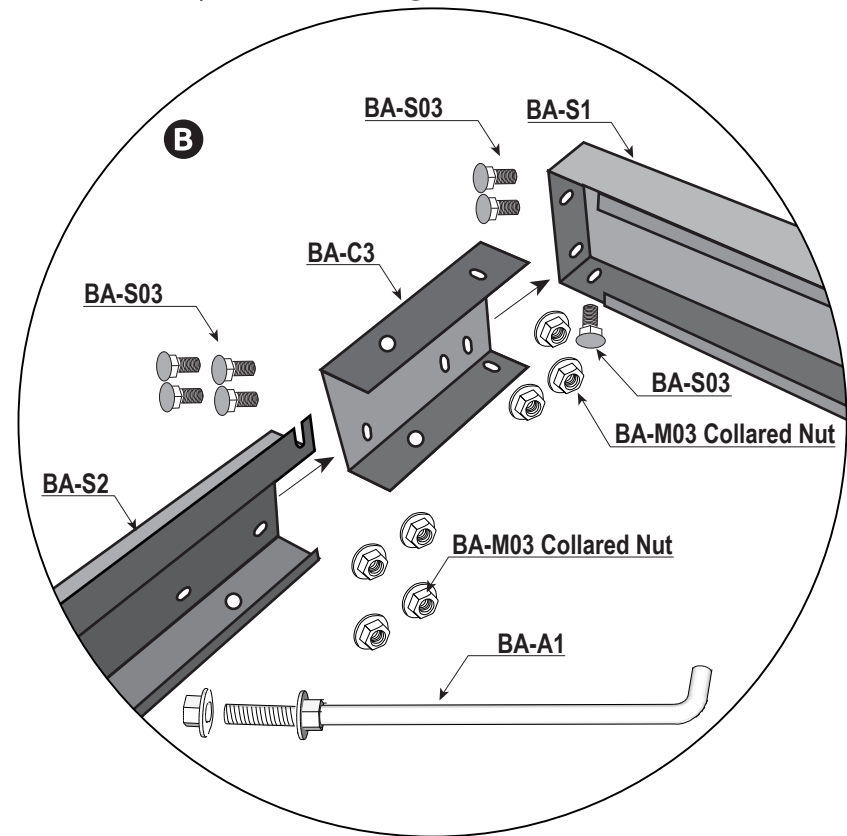
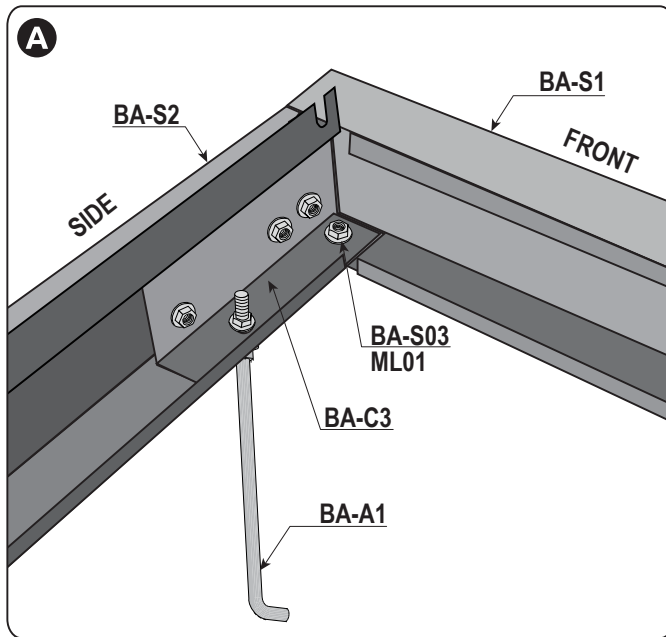
STEP ONE

BASE KIT ASSEMBLY INSTRUCTIONS

1.2 Slide the **BA-C3** into the **BA-S1**, slide the **BA-S2** into the **BA-C3**, align the holes and push together to an even and tight position and use the **BA-S03** bolt and **BA-M03** collard nut combo, tighten the collard nut on the inside of the base kit using the 10mm wrench or nut driver. Repeat this process on all corners. See **A** and **B**.

Note: Placement of **BA-S1** will be at front and the back, while the **BA-S2**'s will be the sides of your greenhouse base.

1.3 For ground installation only insert the (4) **BA-A1**'s and (4) **BA-S03/ML01** combos to the four corners as shown in **A**. When all of the **BA-A1**'s are installed you can adjust the bolts to level the base. If you are installing on a flat mount surface see page 9.

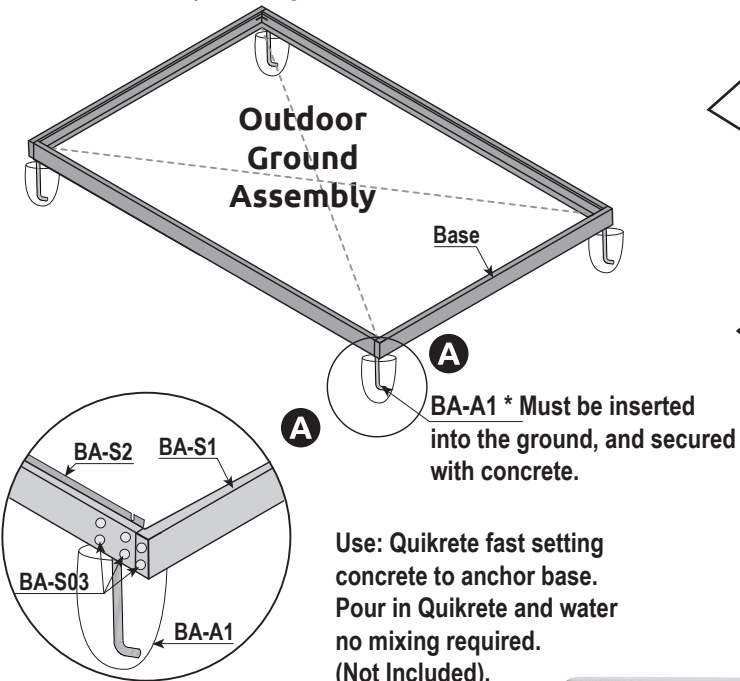


BASE KIT ASSEMBLY INSTRUCTIONS

****BASE MUST BE LEVEL & SQUARE, FOUNDATION MUST BE PROPERLY ANCHORED PRIOR TO GREENHOUSE ASSEMBLY**

A BA-A1 must be buried in ground.

Dig holes to bury the **BA-A1**'s, you determine size and depth for your location.

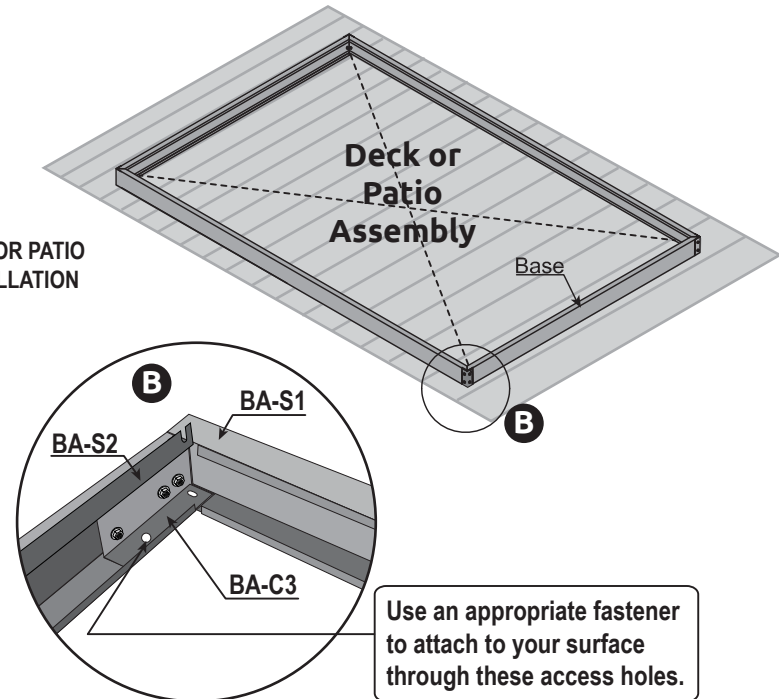


OR

B Holes are present in base kit for anchoring bolts

You determine and acquire proper fastener prior to installation. **Discard the BA-A1 for deck installations.**

DECK OR PATIO INSTALLATION



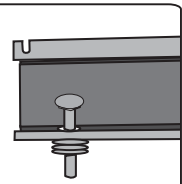
STEP ONE



GRANDIO TIP Make sure base is squared and level before setting anchor into concrete. Use a measuring tape to ensure all corners are the same. Use level on all four sides.



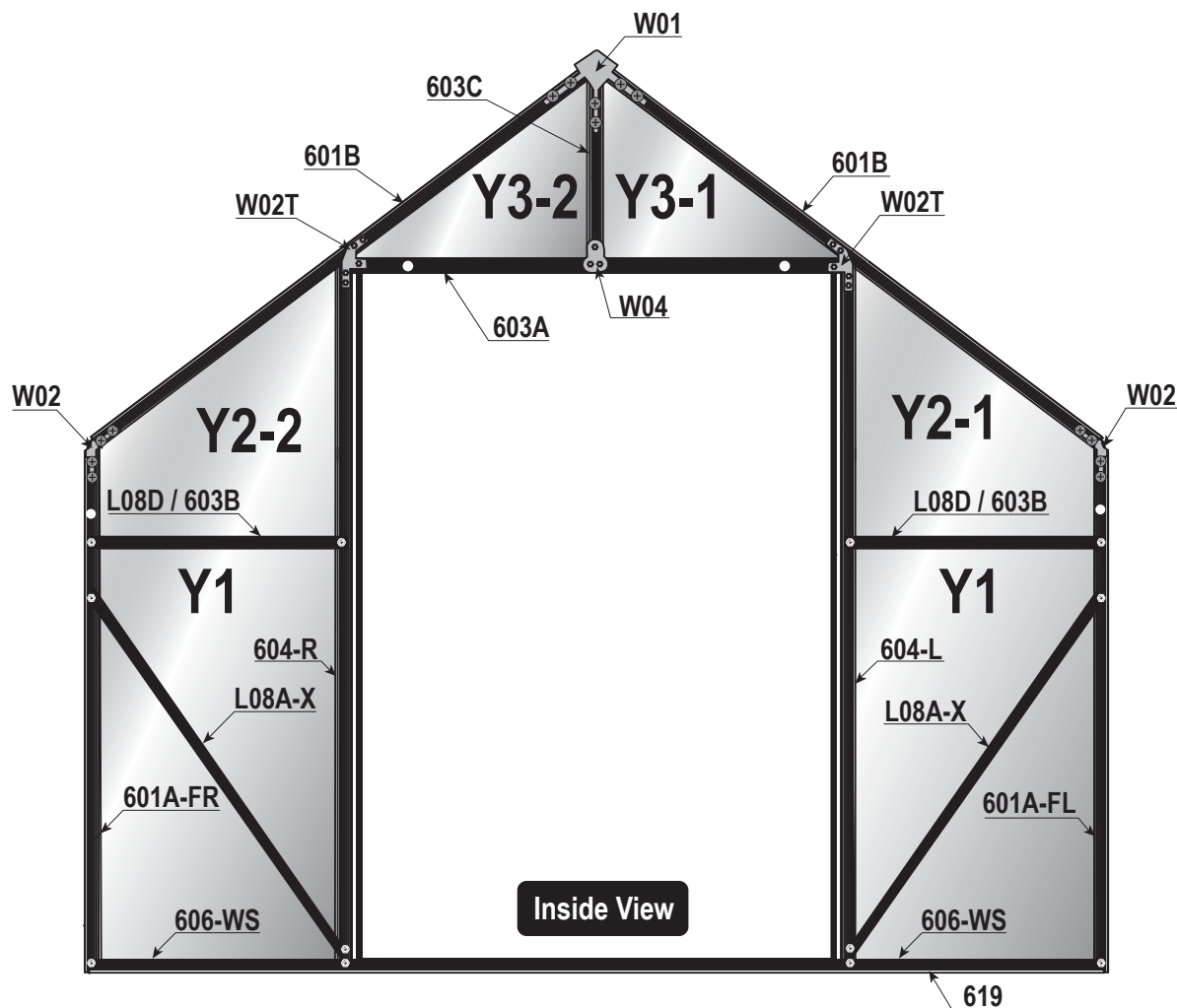
If surface is uneven you may want to purchase large washers that will fit under the base and allow fasteners to go through to use as a shim for leveling the base kit.



FRONT FRAME ASSEMBLY

ALWAYS ASSEMBLE FRONT HORIZONTAL

This picture shows the inside view of front section fully assembled.
All parts for this section will be found in boxes GRA-ASC-8A and GRA-ASC-8P.
We recommend that you assemble the front wall on a tarp.



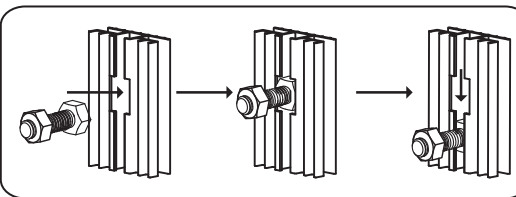
We recommend watching our how to assembly videos with tricks and tips for easier assembly and installation of your Grandio Greenhouse at: www.grandiogreenhouses.com



Lay flat on ground to assemble the front frame of your greenhouse. If possible try to find a shady area protected from the wind. Panels can burn grass and plants if in direct light.



BOLT INSTALLATION TIP: Locate all nuts and bolts, pre thread and place in the groove of the extrusion to make installation easier. Move up or down for exact placement.



STEP TWO

FRONT FRAME ASSEMBLY CONTINUED

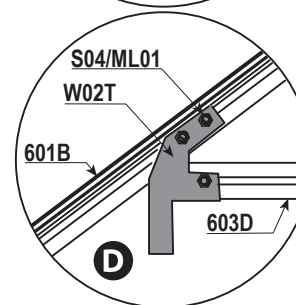
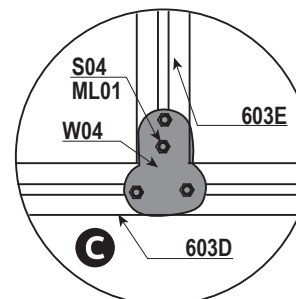
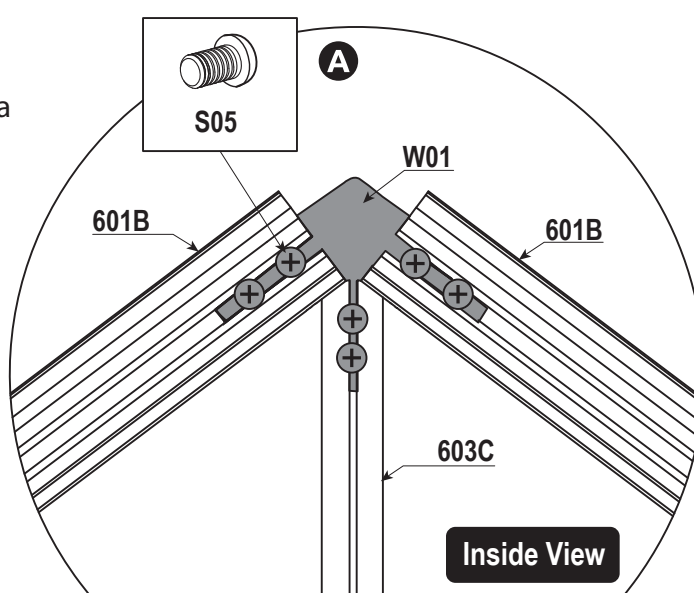
ALWAYS ASSEMBLE FRONT HORIZONTAL

2.1 Use **W01** bracket to attach the (2) **601B**'s together with the **603C**, secure parts with the **S05** fasteners provided as shown in **A**. Pre thread **W01** fasteners with **S05** for ease of installation, only turn a few times. Screw heads will remain outside channel.

2.2 Insert **Y3-1** and **Y3-2** window panels as shown in **B**.

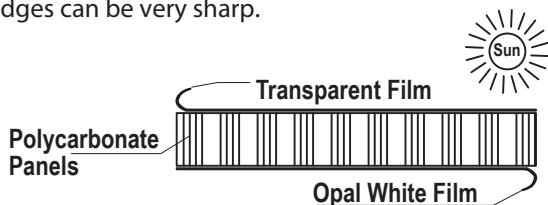
2.3 Attach **603C** and **603A** with **W04** and **S04/ML01** fasteners as shown in **C**.

2.4 Attach **W02T** to **601B** and **603A** with the **S04/ML01** fasteners as shown in **D**, leave a bit loose to ease installation of next step.

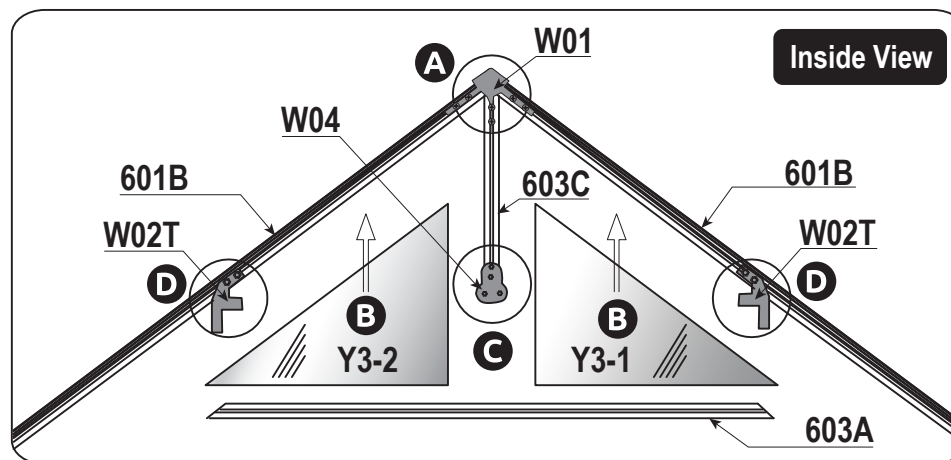


⚠ IMPORTANT: POLYCARBONATE PANELS ⚠

The UV-Protected side is covered with transparent film and must face toward the sun. The side covered in white film will always face the interior of the greenhouse. We suggest you peel all film off completely prior to assembly and use a permanent marker to place a small "X" on the lower right corner of each panel on the transparent side that faces the sun, each panel has a sticker labeling the panel number and this side always faces the sun or outward as well. **DO NOT REMOVE LABELS UNTIL YOU INSTALL PANELS.** The "X" is suggested in case you dis-assemble your greenhouse in the future so you may identify which side has the UV coating. Always use gloves when handling the polycarbonate panels as the edges can be very sharp.



⚠ IMPORTANT: Use only S05 Screws, other screws may damage frame. ⚠



FRONT FRAME ASSEMBLY CONTINUED

ALWAYS ASSEMBLE FRONT HORIZONTAL

2.5 View diagrams and attach the (2) **604's** and (2) **601A's** to the **619** with the **S04/ML01** nut and bolt combos. Note the orientation of the **601A-FR** and **601A-FL** and the holes that should be at the top of the piece and face to the front, see the diagram to the right.

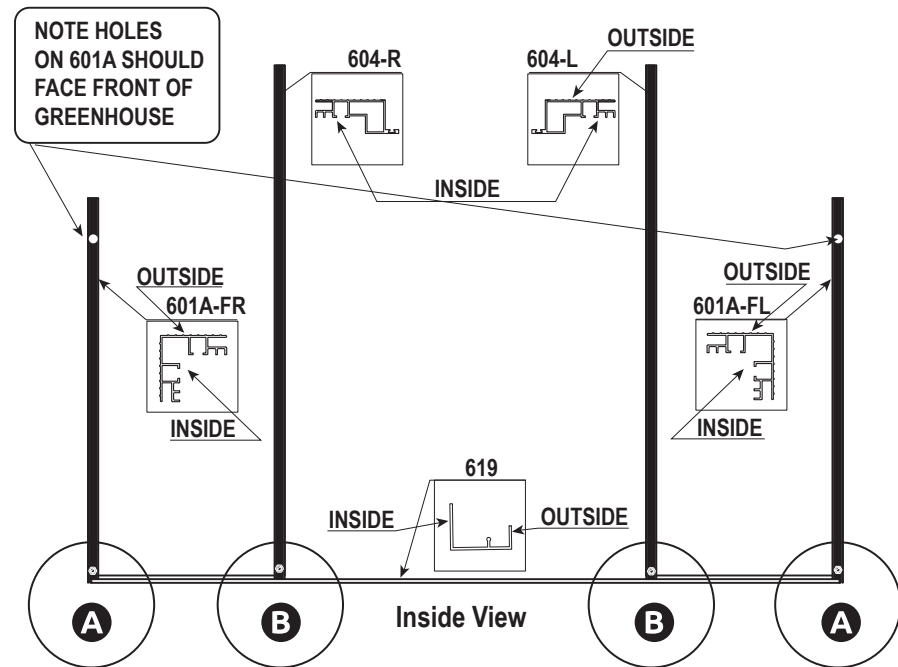
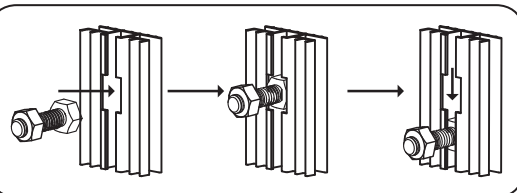
- A** shows where the corner pieces attach to **619**.
- B** shows where the door frame attaches to the **619**.



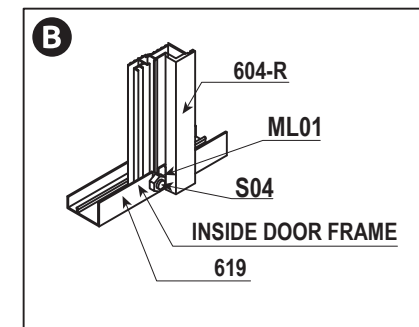
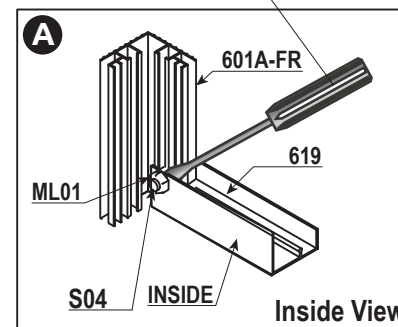
Make sure the hole on the **601A-FL** and **601A-FR** face to the front of greenhouse for future of the **L21** and **L28** bracket that holds the door header in place.



BOLT INSTALLATION TIP: Locate all nuts and bolts, pre thread and place in the groove of the extrusion to make installation easier. Move up or down for exact placement.



TIP: If necessary you may use a screwdriver to wedge behind the bolt head. This prevents bolt from falling into the track.



STEP TWO

FRONT FRAME ASSEMBLY CONTINUED

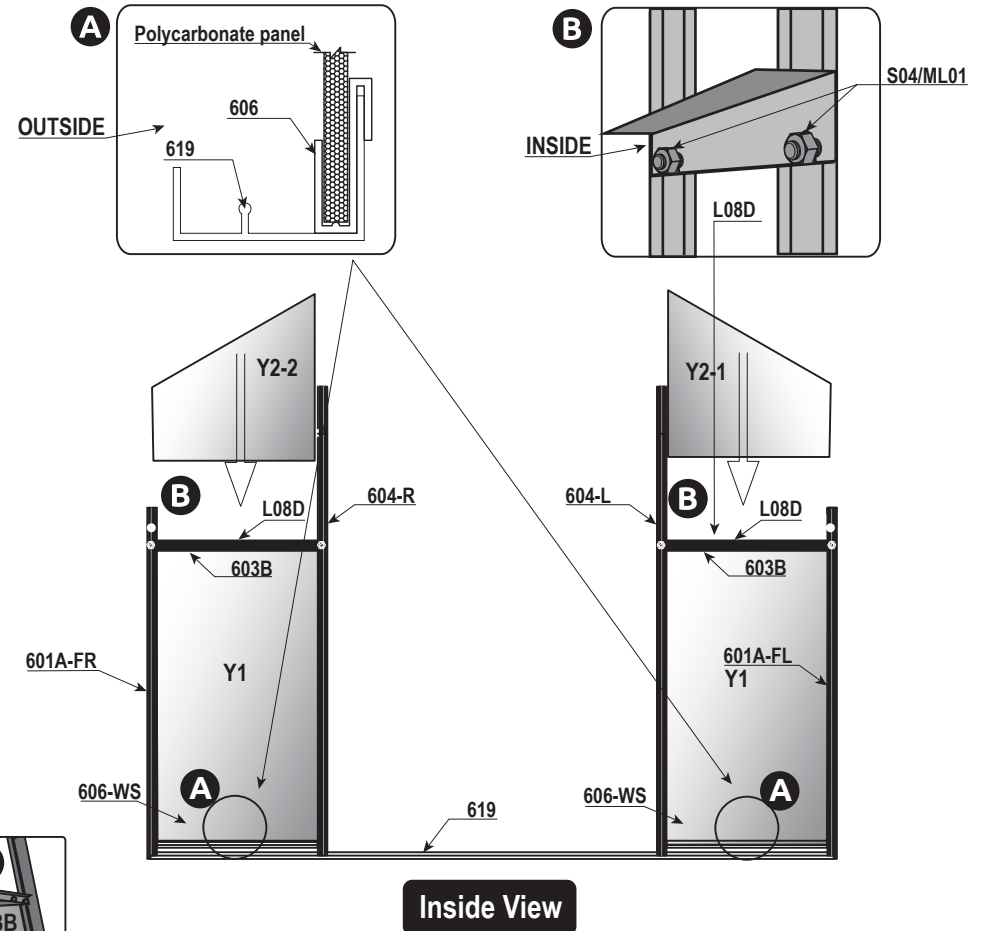
ALWAYS ASSEMBLE FRONT HORIZONTAL

2.8 Attach **606-WS** to **619**, this will hold the polycarbonate panels in place. If it seems too tight slide fingers or nut driver along edges, gently stretching the **606-WS** to allow room for panels to fit **A**.

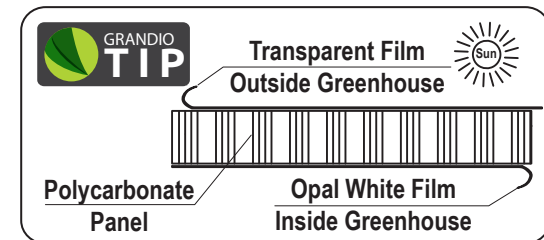
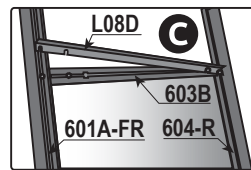
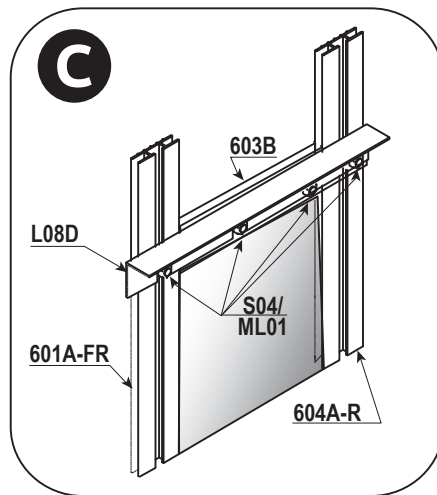
2.9 Insert **Y1** polycarbonate panels into place, make sure **Y1's** slide completely into **606-WS** as shown in **A**.

2.10 Set (2) **603B's** atop the **Y1** panels, then attach (2) **L08D's** to the **603B's**, **601A's** and **604's** using **S04/ML01** fasteners, make sure it is snug with the tops of the **Y1** panels, then tighten fasteners. See **C**.

2.11 Insert the **Y2-2** and **Y2-1** polycarbonate panels into the track of the **603B**.



Inside View

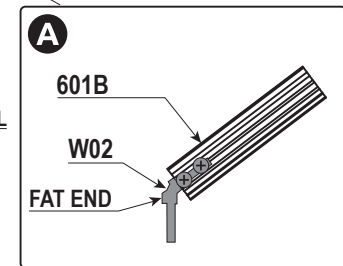
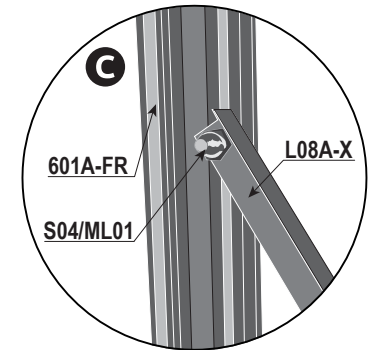
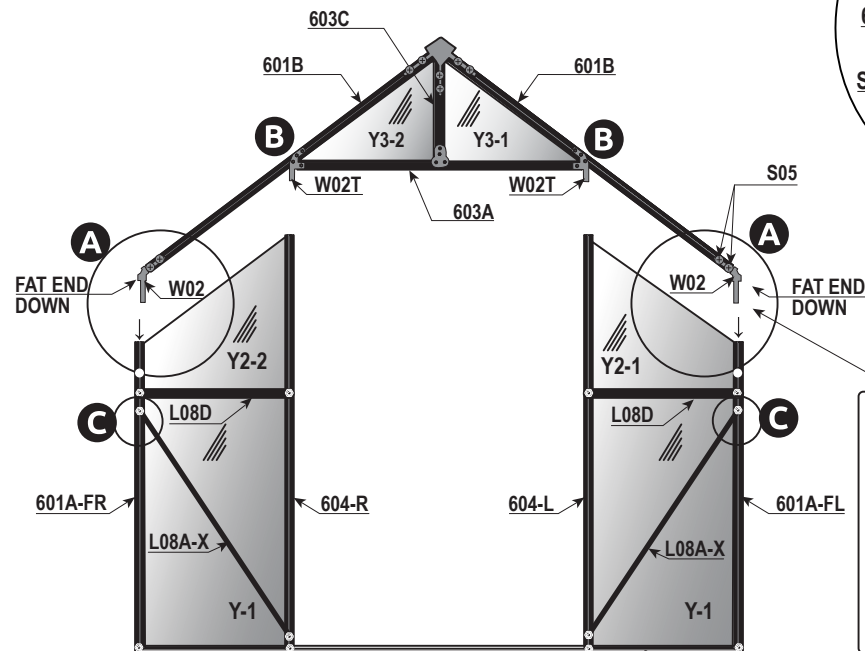
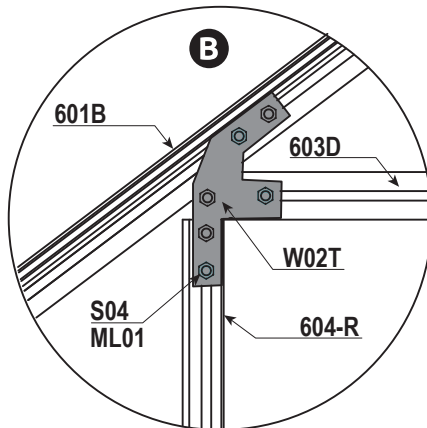
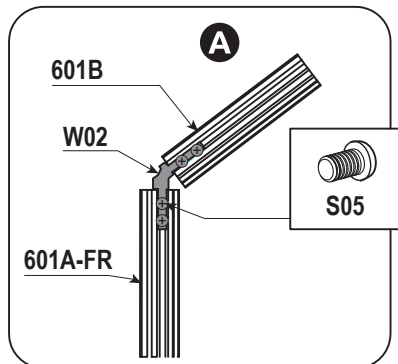


FRONT FRAME ASSEMBLY CONTINUED

ALWAYS ASSEMBLE FRONT HORIZONTAL

2.12 Move roof and front section together and align the **WG02's** into the **601A's**, and align the **S04/ML01's** on the **W02T's** into the **604's**. Insure a snug fit between the **W02T's**, **601B's** and **601A's** and then tighten the **S05** screws as shown in **A**. Tighten the **W02T's** with the **S04 /ML01** nut and bolt as shown in **B**.

2.13 Attach the **L08A-X's** to **601A's** and **604's** to square front section loosen **S04/ML01** attached to the bottom of the (2) **604's**, square the frame with carpenter square or use a measuring tape to make sure corner measurements are the same, also check distance across from the top of **601A's**, and also to the bottom of the **601A's** across, make sure distance is the same. Tighten **L08A-X's** to hold squareness as shown in **C**.



STEP TWO

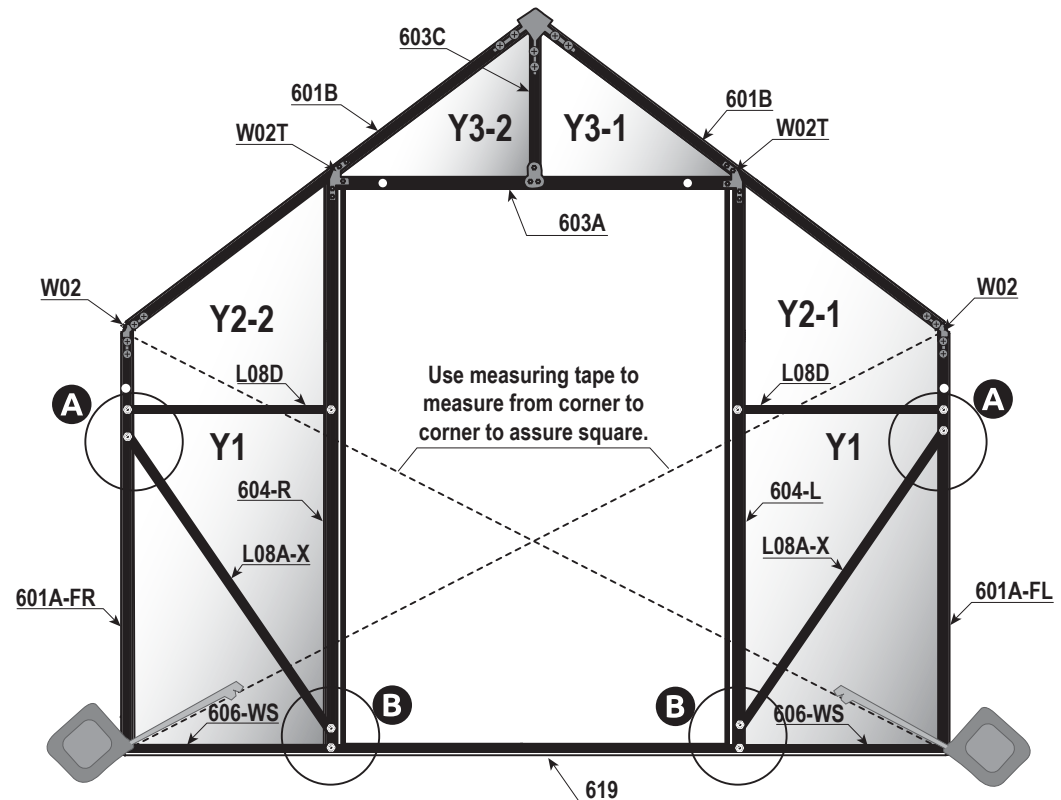
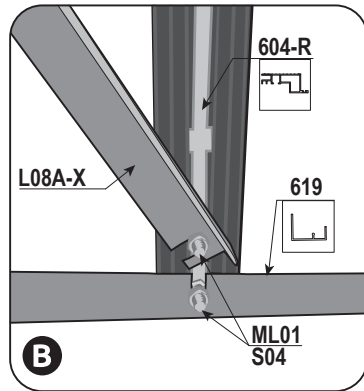
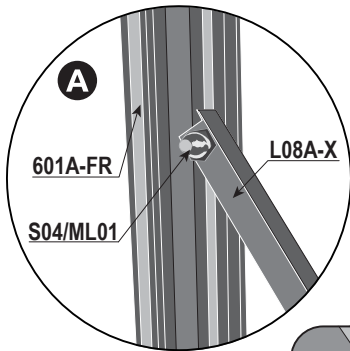
FRONT FRAME ASSEMBLY CONTINUED

ALWAYS ASSEMBLE FRONT HORIZONTAL

2.14 Attach the (2) **L08A-X** to **601A's** and **604's**.

See **A** and **B**.

2.15 To square front section loosen **S04/ML01** attached to the tops of the (2) **L08A-X's**, square the frame with carpenter square or use a measuring tape to make sure corner measurements are the same, tighten **L08X's** to hold square-ness, **L08A-X** should be attached **1"** up from bottom bolt see **B**.



STEP TWO

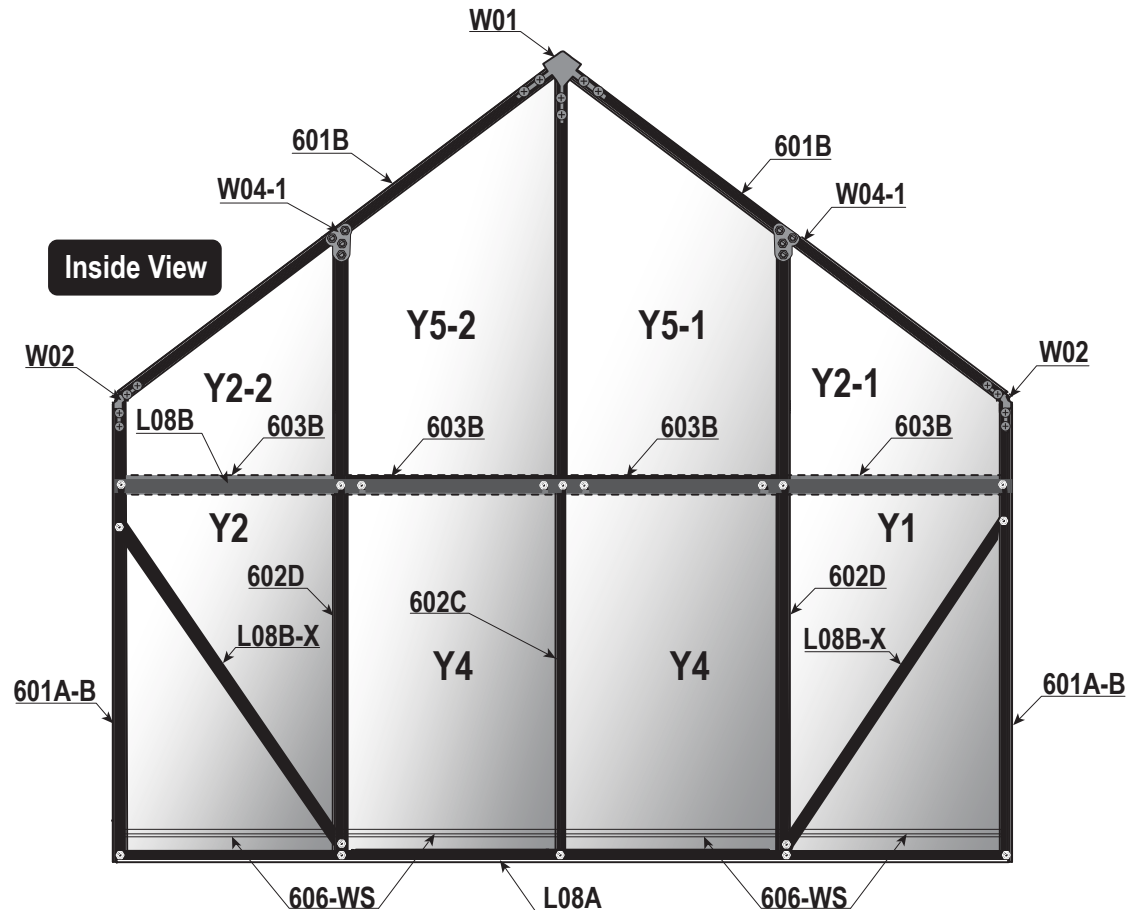
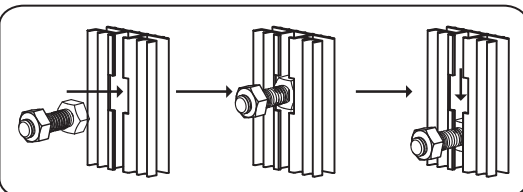
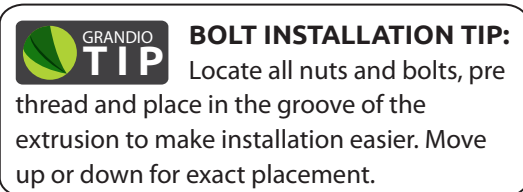
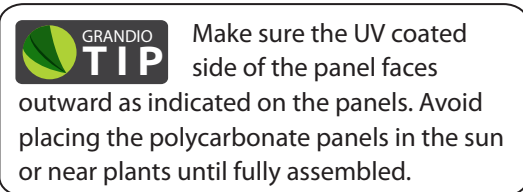
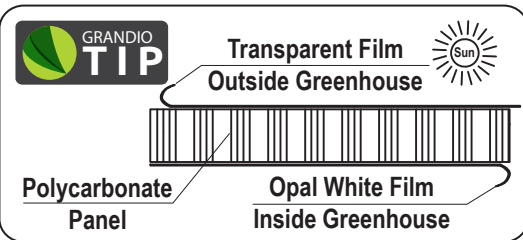


Set front aside in a shaded area, do not lay on grass, prolonged sunlight through the polycarbonate panels will burn if placed directly on top of plants during the intense sun of the day.

BACK ASSEMBLY INSTRUCTIONS

ALWAYS ASSEMBLE BACK HORIZONTAL

This image shows the inside view of the back wall assembly.
All parts for back assembly will be found in box GRA-ELI-8A and GRA-ELI-8P.
We recommend that you assemble the back wall on a tarp.



STEP THREE

BACK CONTINUED

ALWAYS ASSEMBLE BACK HORIZONTAL

3.1 Prethread all **S05** Screws into the **W01** and **W02's**, only turn a few times, see **A**.

3.2 Use **W01** bracket to attach the (2) **601B's** together as shown in diagram **A**.

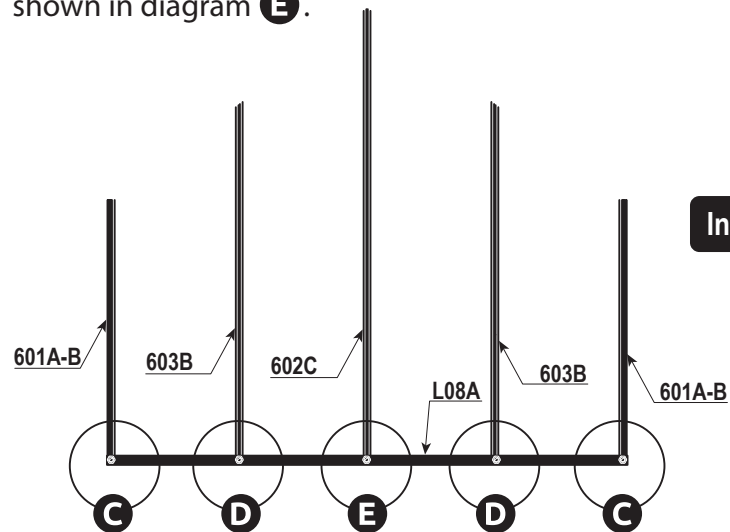
Attach (2) **W02's** to the (2) **601B's** as shown in diagram **B**.

3.3 Attach (2) **601A-B's** to **L08A** using **S04/ML01** fastener as shown in diagram **C**.

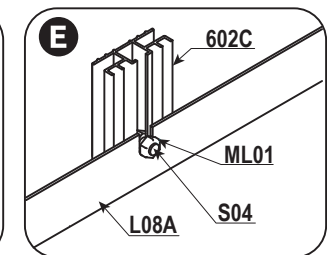
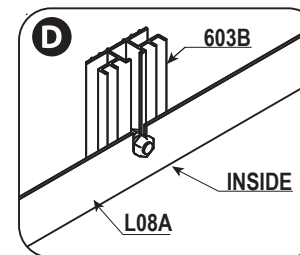
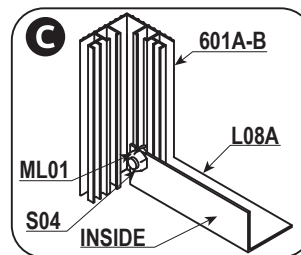
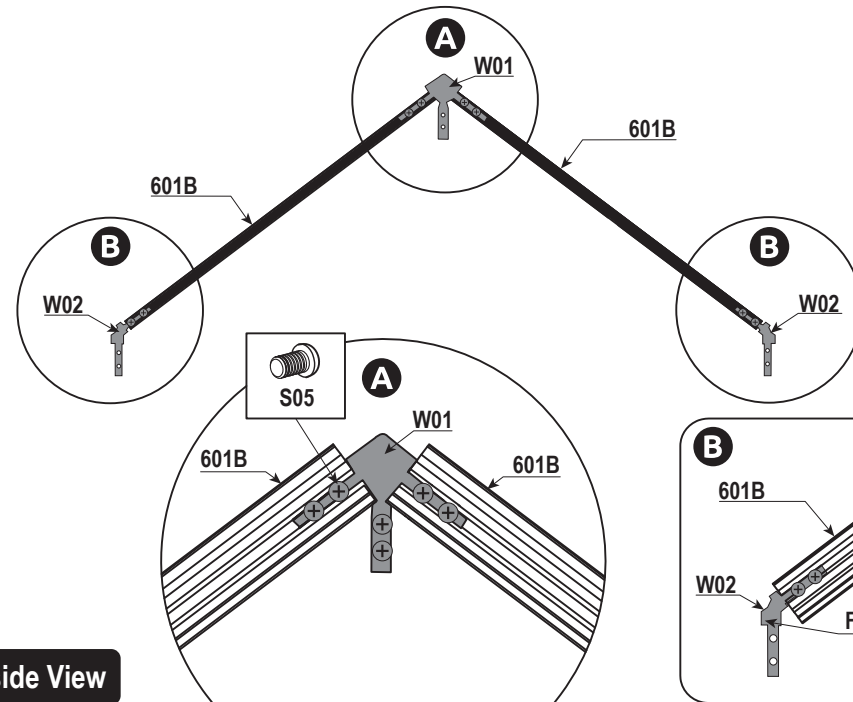
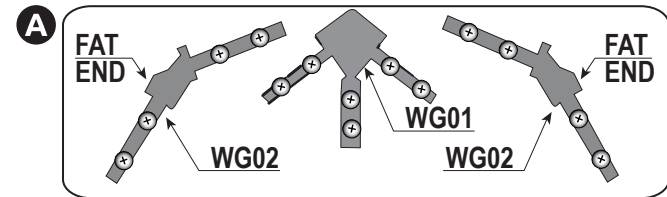
Attach (2) **603B's** to **L08A** using **S04/ML01** fasteners as shown in diagram **D**.

Attach **602C** to **L08A** using **S04/ML01** fastener as shown in diagram **E**.

STEP THREE



Inside View



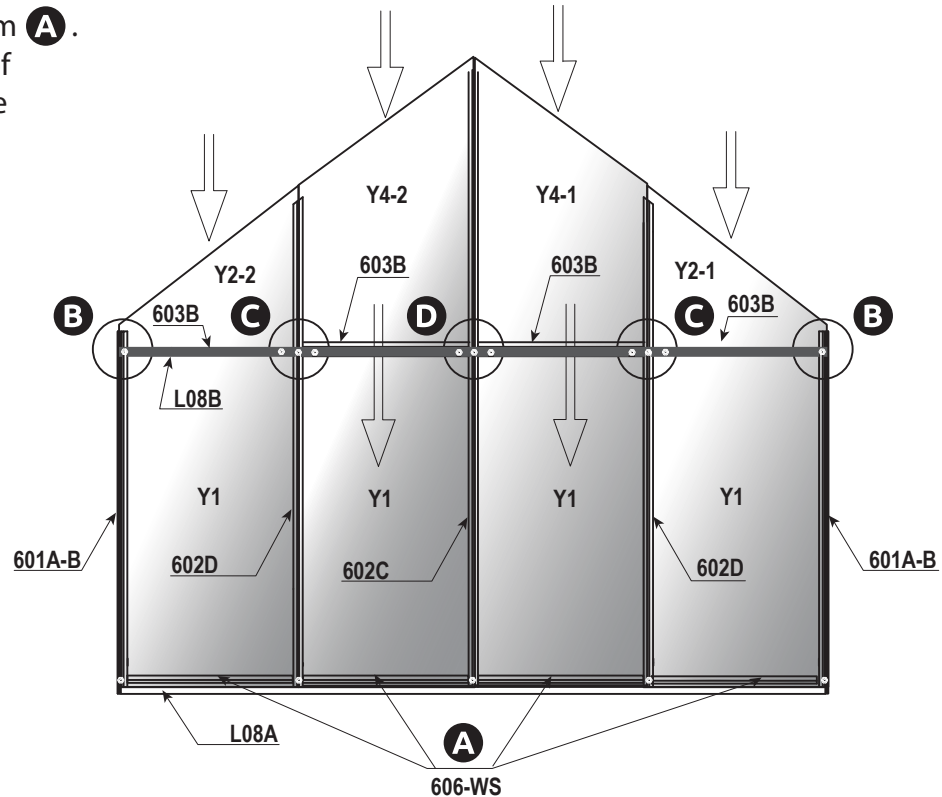
BACK CONTINUED

ALWAYS ASSEMBLE BACK HORIZONTAL

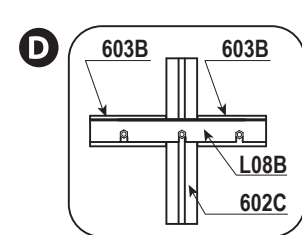
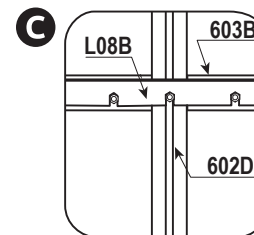
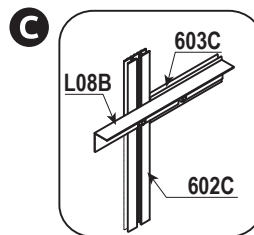
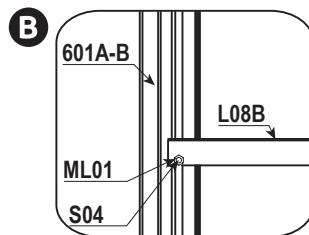
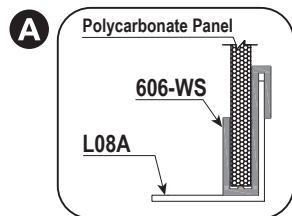
3.4 Attach (4) **606-WS's** to **L08A** as shown in diagram **A**. Insert the **Y1** polycarbonate panels into the grooves of **601A-B's**, **602D's** and **602C**. Make sure **Y1** panels are inserted into **606-WS** as shown in **A**.

3.5 Set (4) **603B's** on top of the **Y1's** that are now in place. Attach **L08B** to (2) **601A-B's**, **602D's** and the **602C** with **S04/ML01** fasteners as shown in diagram **B**, **C** and **D**. Pre thread all fasteners into assigned channels and align with **L08B** for ease of installation.

3.6 Insert the **Y2-1** , **Y2-2**, **Y4-1** and **Y4-2** polycarbonate panels into place as shown in the diagram to the right.



Inside View



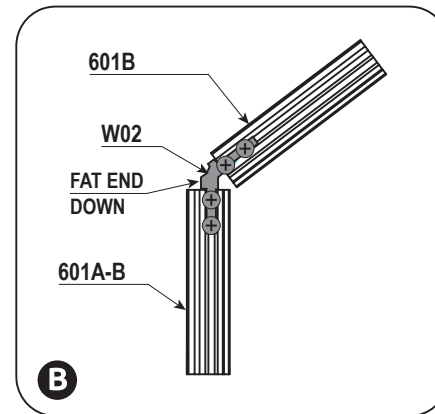
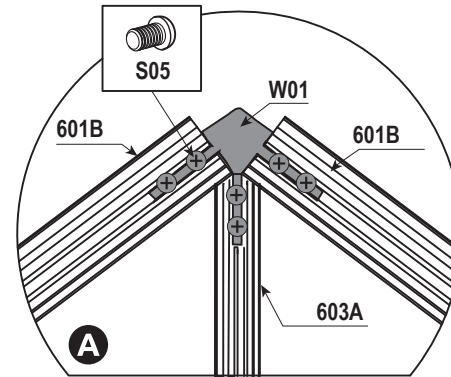
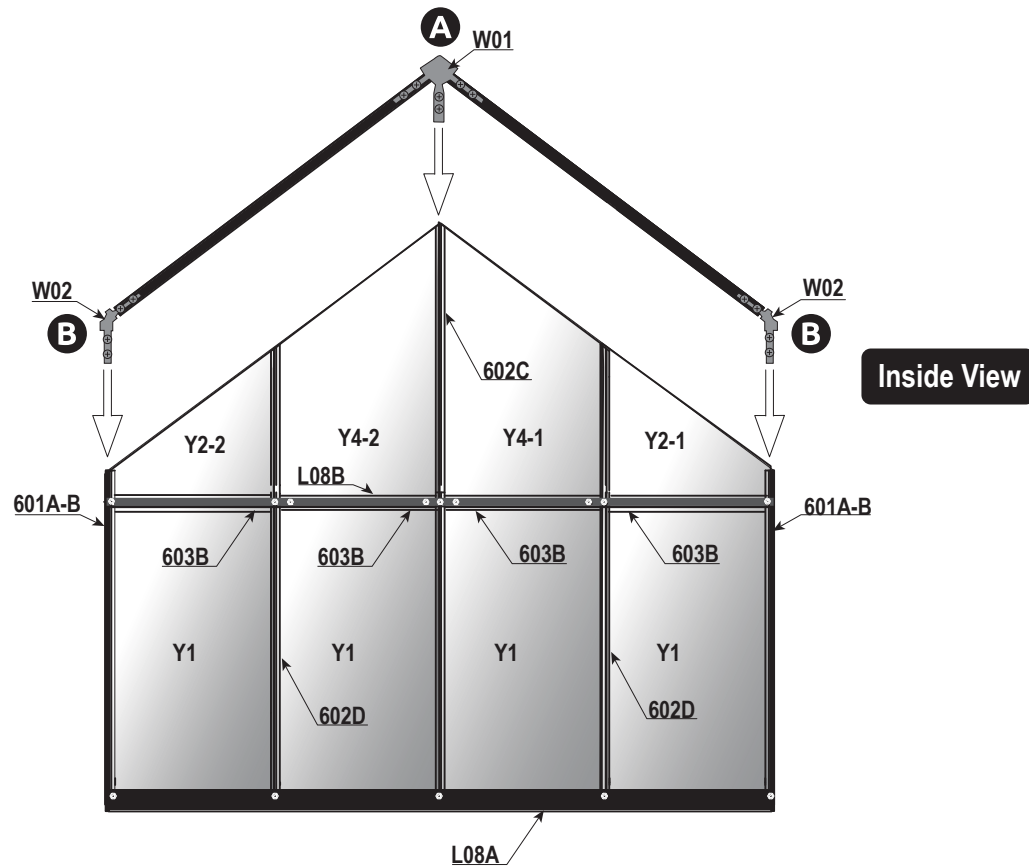
STEP THREE

BACK CONTINUED

ALWAYS ASSEMBLE BACK HORIZONTAL

3.7 Attach the roof to the back wall use **W01** fastener to **602C** and the (2) **W02**'s to the (2) **601A-B**'s using the **S05** fasteners as shown in diagram **A** and **B**, pre thread all screws for easiest installation, tighten when flush with frame and square.

STEP THREE



BACK CONTINUED

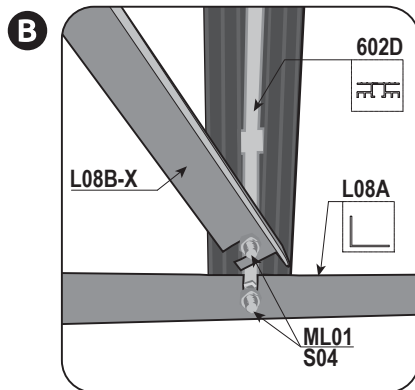
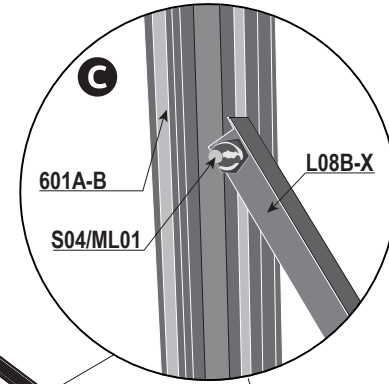
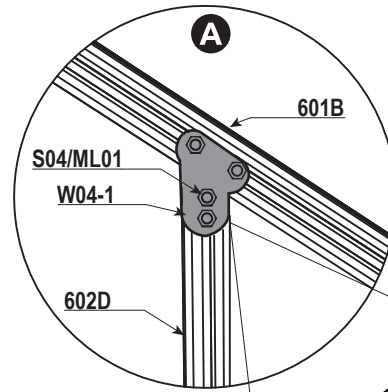
ALWAYS ASSEMBLE BACK HORIZONTAL

3.8

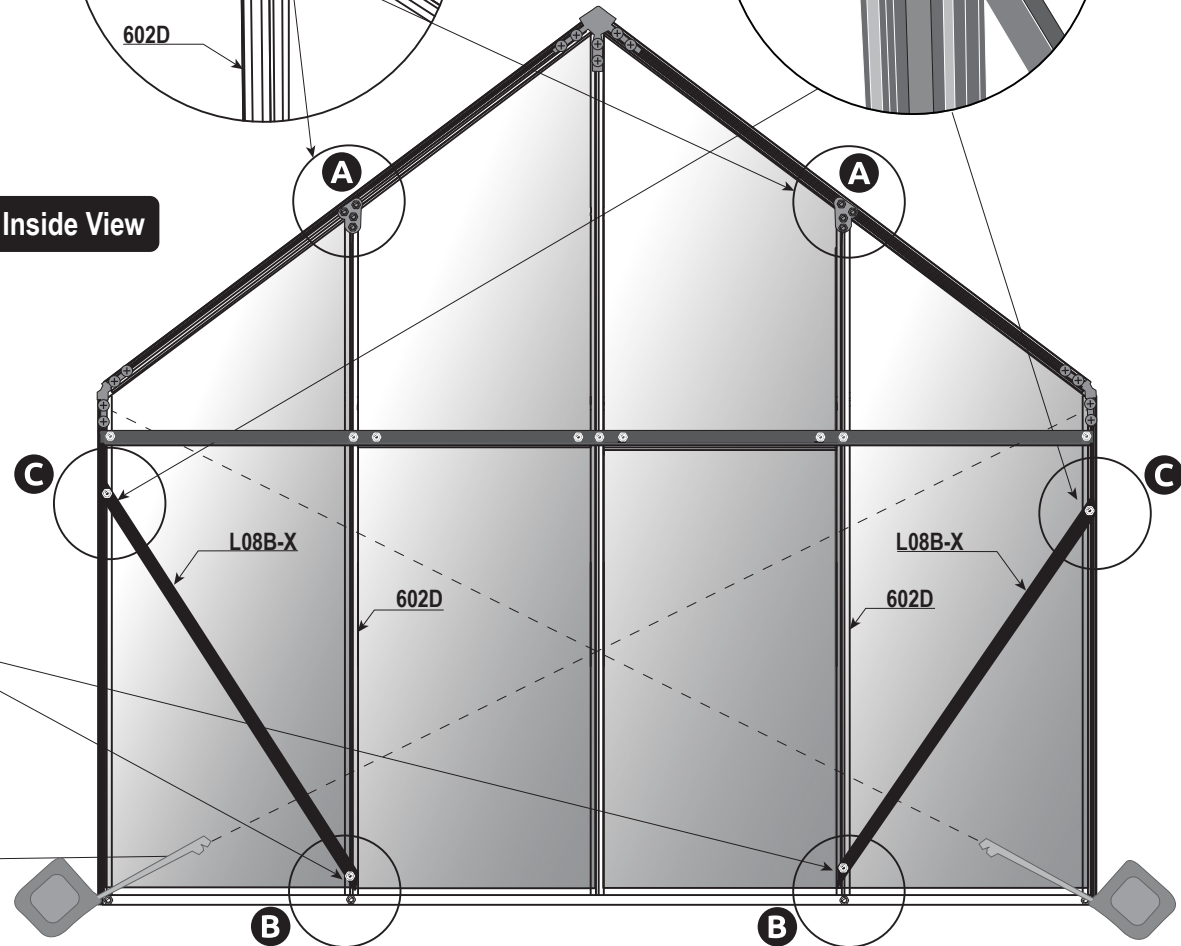
A. Attach the **W04-1** to the **602D** and **601B** with **S04/ML01** fasteners as shown in **A**.

B. Attach (2) **L08B-X**'s to (2) **602D**'s and **L08A** with **S04/ML01** as shown in **B**.

C. Attach (2) **L08B-X**'s to the (2) **601A**'s with fasteners as shown in **C**.



Inside View



STEP THREE



GRANDIO TIP Square by loosening bolts attached to the tops of the **L08B-X**, use measuring tape to make sure corners to corner measures the same.

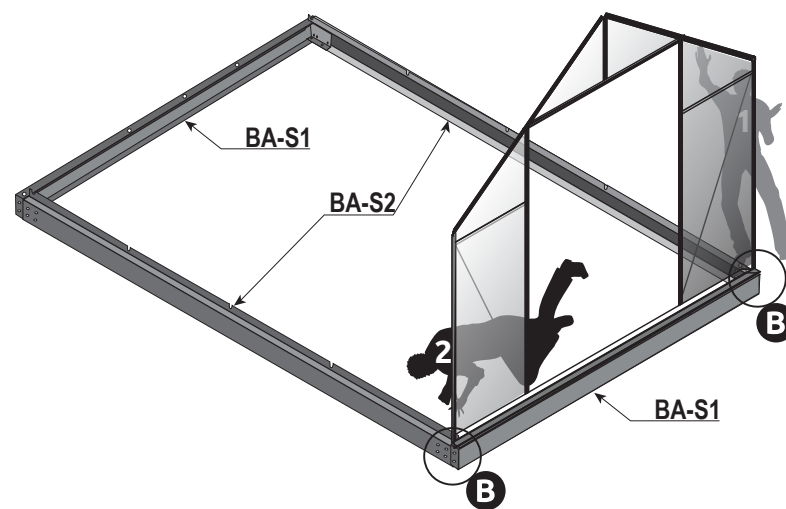
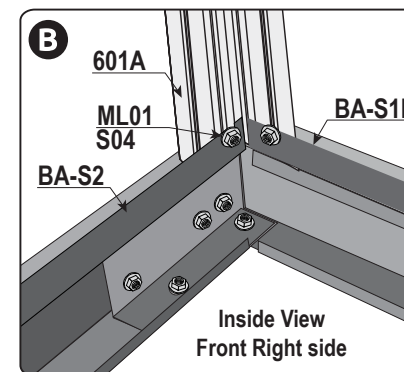
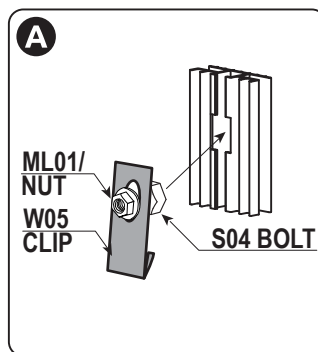
MIDDLE ASSEMBLY INSTRUCTIONS

Warning: The person(s) holding the front or back sections vertical must continue to do so until the **L08C-X** angle supports are attached securely to the front and base as shown in step 4.5. Failure to hold front vertical will cause the front to fall and damage the base kit, front framing etc. Damage caused by improper installation is not warrantable.

STEP FOUR

4.1 We recommend pre threading all (9) **W05** Clips with the nut and bolt combos now. See **A**, note the bolt head will always slide into the extrusion, **W05** clips will be used in step 4.5.

4.2 With no less than 2 people place the pre assembled front section on top of the base kit front. Have person **(1)** hold the front vertically while the other attaches the front section **601A's** to the base using **S04/ML01** fasteners as shown in **B**. Person **(1)** must continue to hold up the front wall!

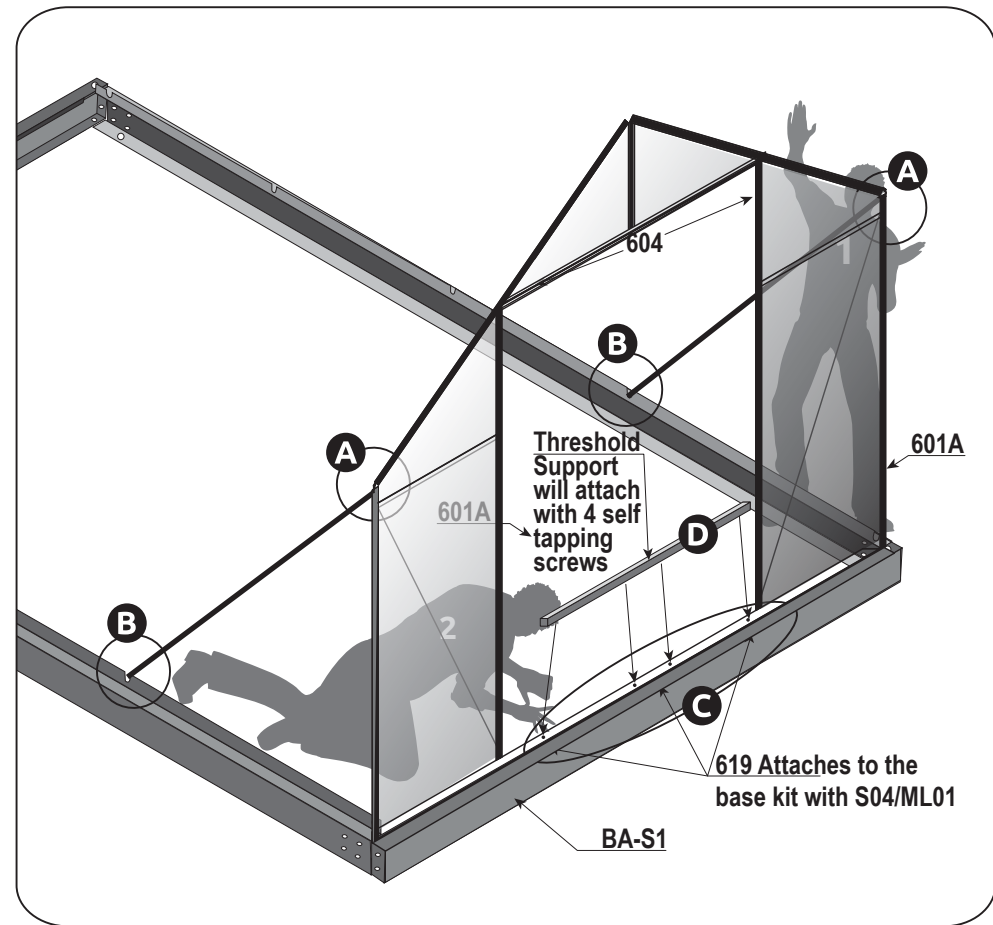
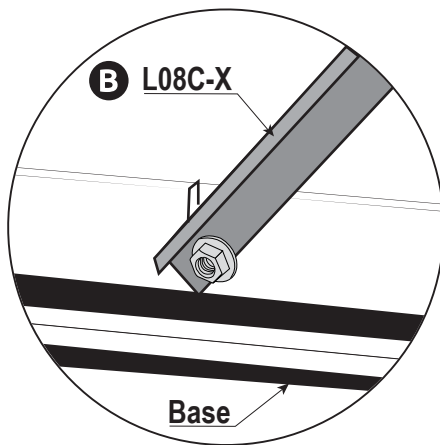
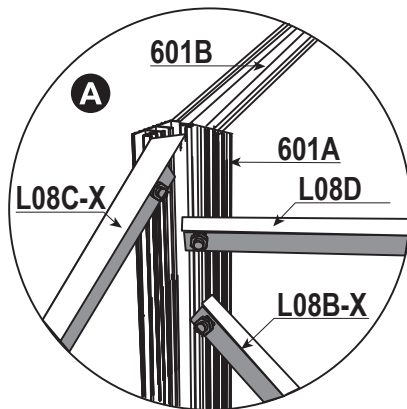


You will need a minimum of (2) people to complete the middle assembly of your greenhouse. The more people the merrier at this stage of assembly.

MIDDLE ASSEMBLY CONTINUED

4.3 Attach **L08C-X** to **601A** and the **BA-S2** with **S04/ML01** on both sides as shown in **A** and **B** with the nut and bolt combos.

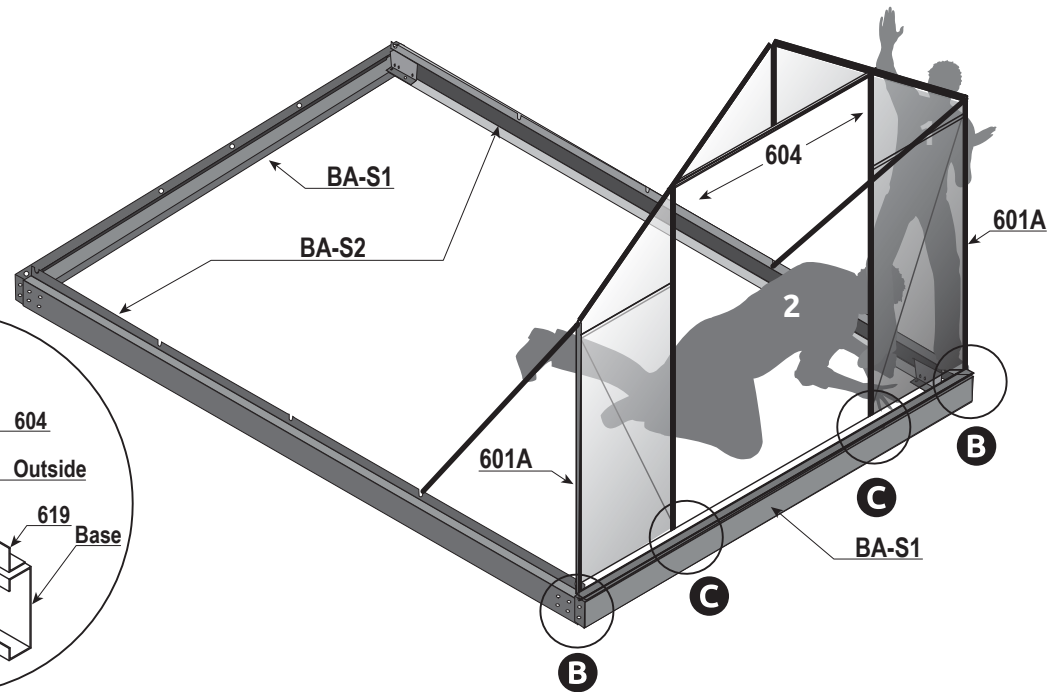
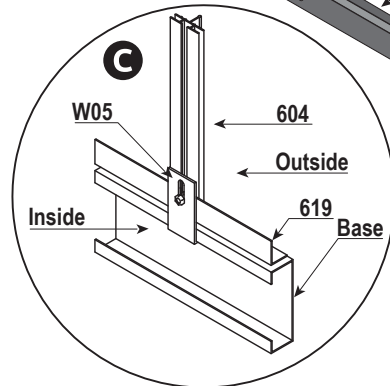
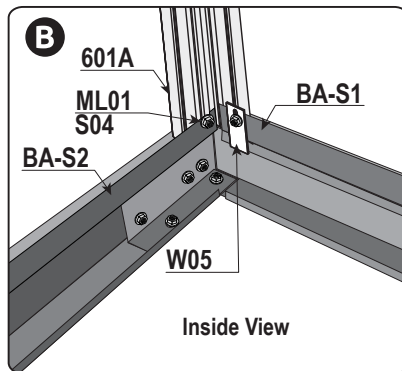
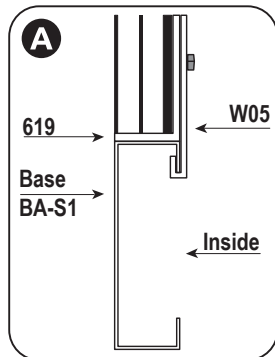
4.4 Attach the front section **619** to the base using **S04/ML01** fasteners as shown in **C**, then attach the threshold support to the inside of the **619** with (4) self tapping screws included in the package, see **D**.



MIDDLE ASSEMBLY CONTINUED

4.5 Have one person hold the front vertically while the other attaches the front section to the base with **W05/S04/ML01** fasteners as shown in **A** , **B** and **C** . The (4) **W05** clips will catch the under edge of the front base kit and then slide upward attaching to the bottom of the **601A's** and the **604's**, you will switch out the hardware that was originally used to the **W05** Clips.

STEP FOUR

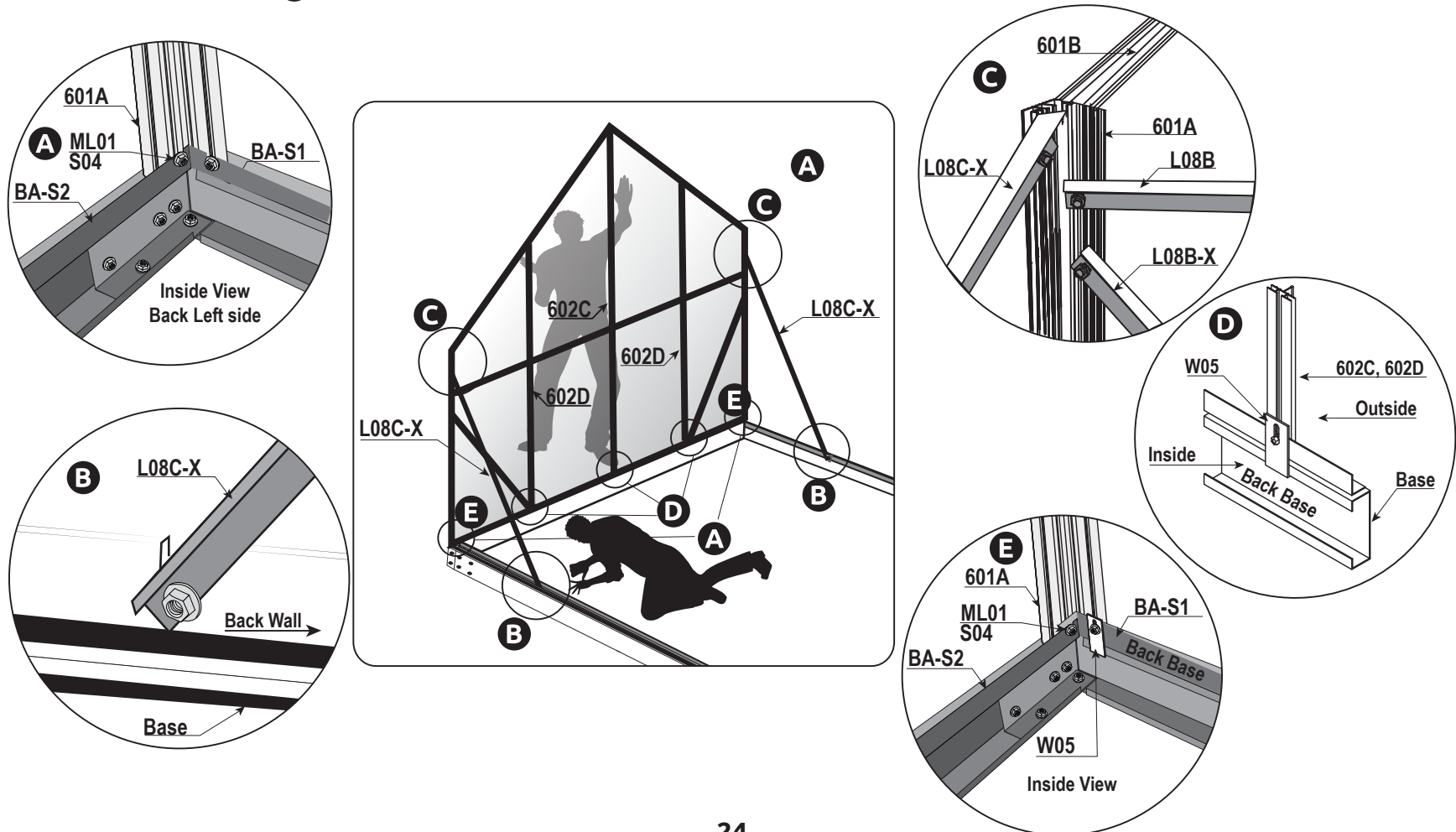


MIDDLE ASSEMBLY CONTINUED

4.6 Attach back wall **601A's** with back base corners using **S04/ML01** on both sides as shown in **(A)**.

4.7 Attach bottom of **L08C-X** to rear section of base kit with **S04/ML01**, as shown in **(B)**. Attach the **L08C-X** to the **601A** as shown in **(C)**, make sure the **S04/ML01** combos are tight.

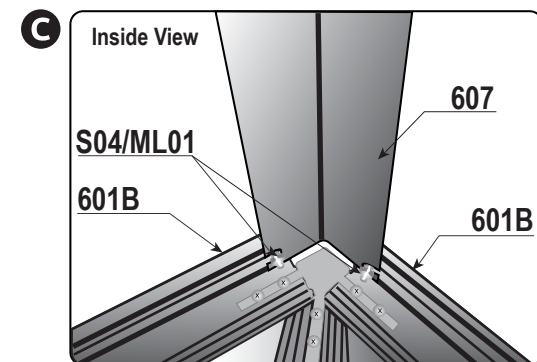
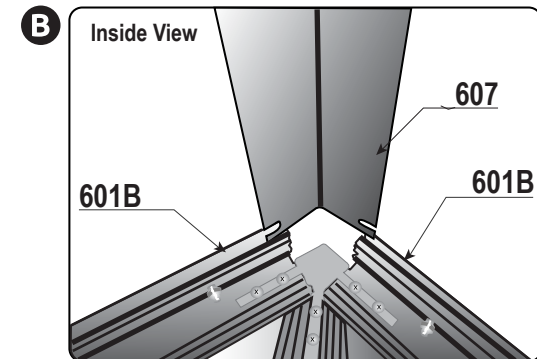
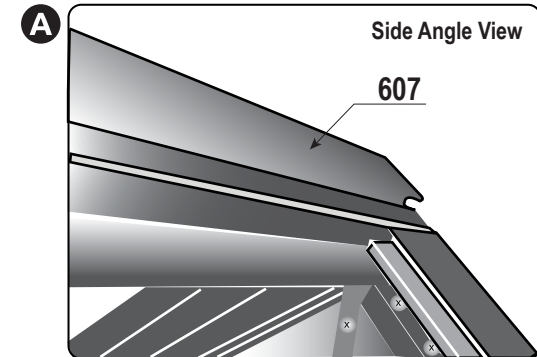
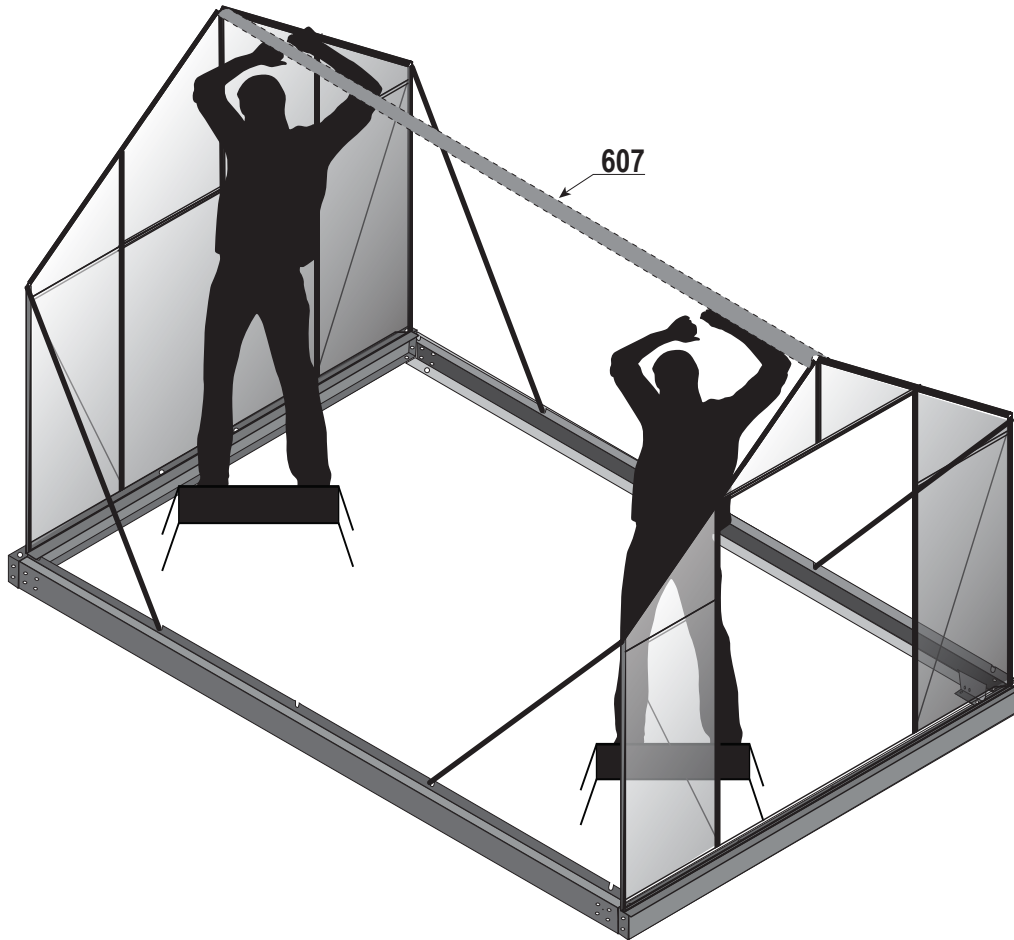
4.8 Use the (5) remaining **W05** clips to attach the backwall where the **601A's** meet the corner of the base as shown in **(D)**, and where **602D's**, and the **602C** meet the **BA-S1B** see **(D)**. Then use **W05 Clip** combos to attach the corner **601A's** to the base kit as shown in **(E)**, you will have to switch out the combo that was originally used to the **W05 Clip**.



MIDDLE ASSEMBLY CONTINUED

4.8 With 2 people, attach the ridge to front and back by sliding into place as shown in **A** and **B**, using **S04/ML01** fasteners attach the **607** to the **601B**'s. See **C** for how the final orientation should be.

STEP FOUR



MIDDLE ASSEMBLY CONTINUED

4.10 Before you attach the **609** you will need to loosen the **ML01** (nut) attached to the tops of the **L08C-X**.

Note: Loosen nuts on only one side at a time, i.e. right front corner, right rear corner. See **A**.

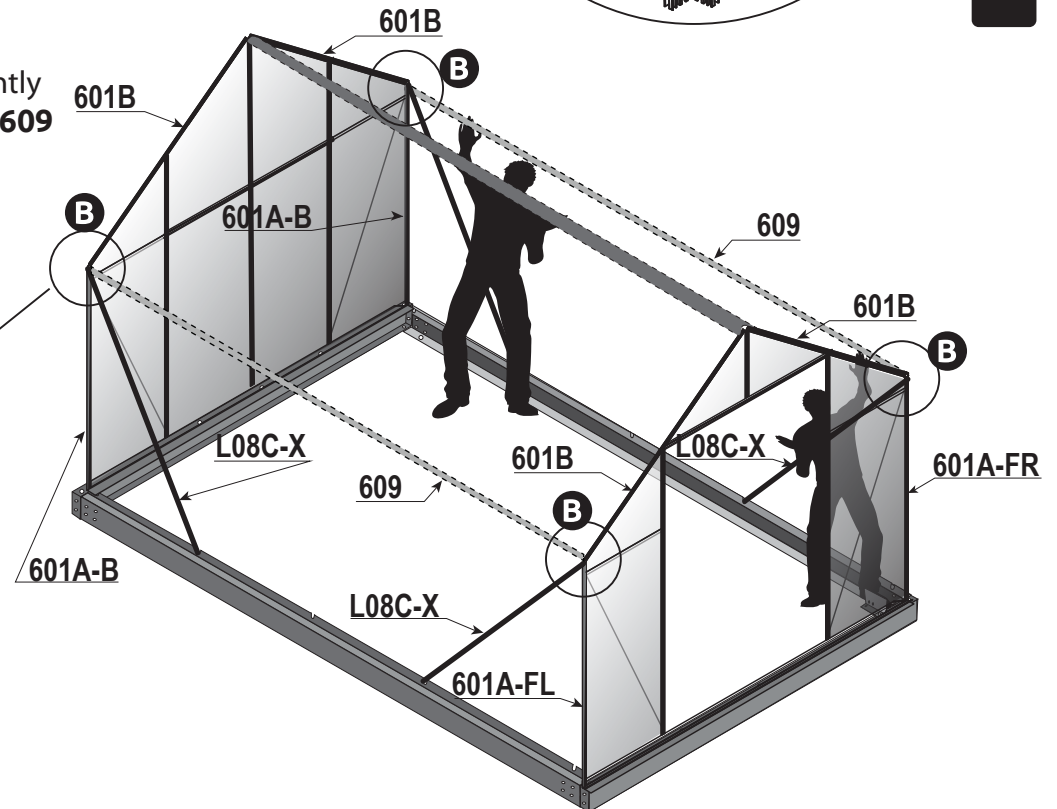
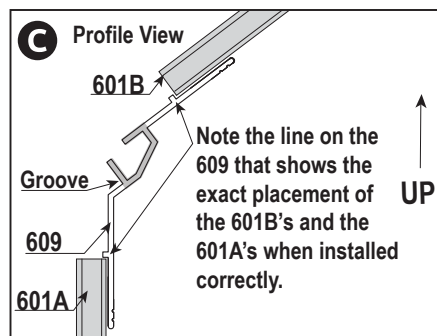
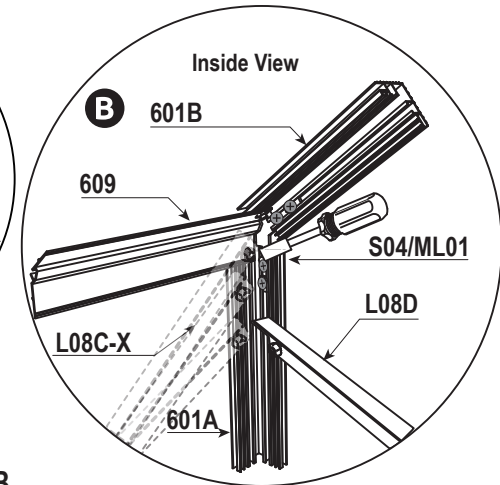
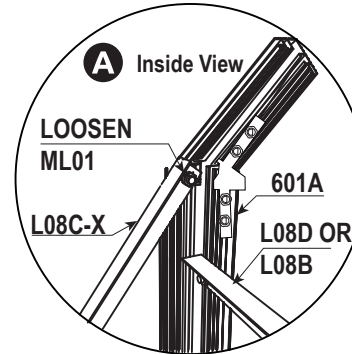
With 2 people proceed to install **609**'s in this order, note that **609** must be installed with groove side down see **C**. Compare with **610** to make sure it will slide into **609** upon completion.

1. With one person holding the **609** level and in position have the other person attach the **609** to the **601B** using **S04/ML01** (nut and bolt). See **B**.

2. Now move the loosened **S04/ML01** (nut and bolt) currently attached to the **601A** upward to firmly secure the **L08C-X**, **609** and **601A** together as shown in **B**.

3. Repeat steps 1 and 2 for the other end of **609**.

4. With one side firmly secured move to the other side and repeat steps 1, 2 and 3.



STEP FOUR

MIDDLE ASSEMBLY CONTINUED

STEP FOUR

4.10 Before you attach the **602A's** to the sides of the greenhouse you will need to loosen the **ML01** (nut) attached to the **L08C-X** and the base. See diagram **C**. Remove and set aside the **L08D-X** supports.

1. Once the bottom of one **L08C-X** is loosened set the **602A** onto the bolt of the **L08C-X**. Be sure the **602A** is aligned and sitting flush on top of the base kit. See **C** for reference.

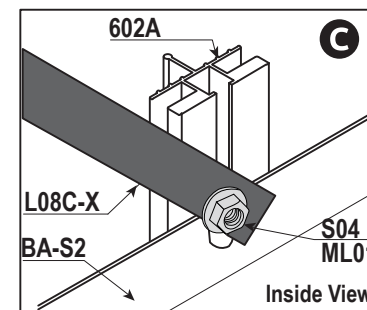
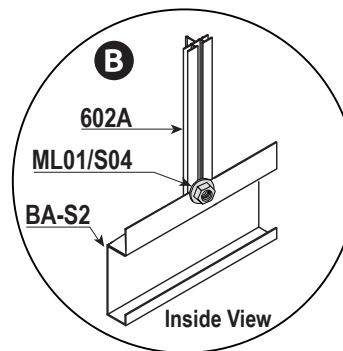
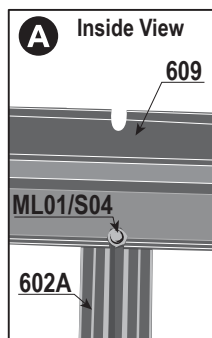
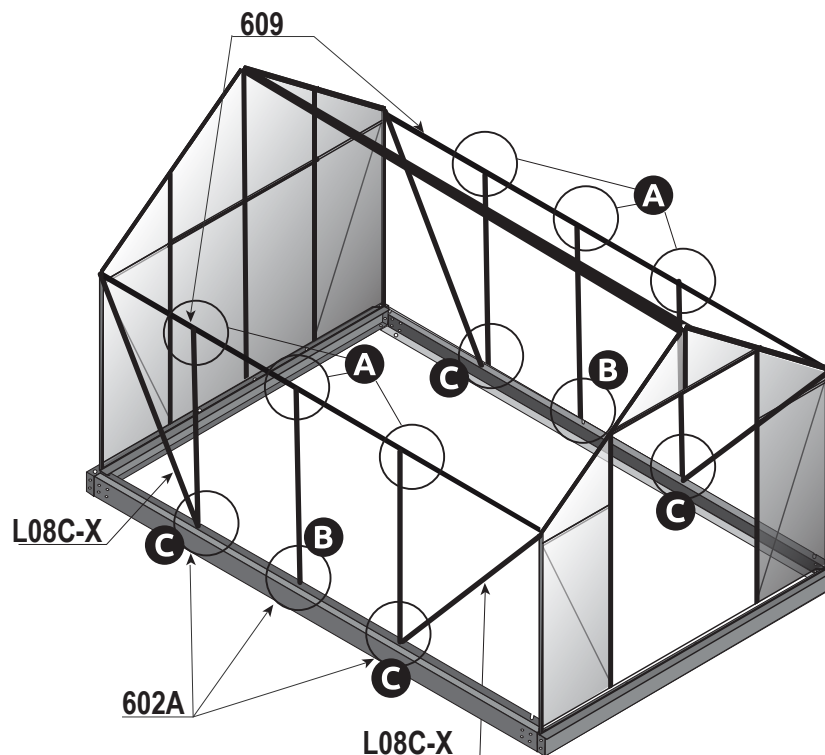
2. Hold the **602A** in place and attach the top of the **602A** to the **609** using **S04/ML01** (nut and bolt). As shown in **A**.

3. Repeat steps **1** and **2** on all four corners where the **L08C-X** 's meet the base kit.

4. Now attach the bottom of **602A** to the **Base** using a **S04/ML01** (nut and bolt) as shown in **B**, and to the **609** with an **S04/ML01** combo as is shown in **A**.

5. Repeat step **4.** on all places where a **602A** should go. You may reference diagrams at front for your exact size.

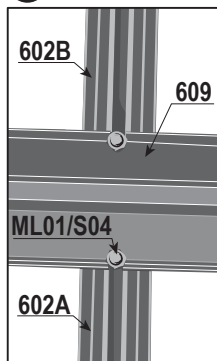
Note: Where the **L08C-X** reattaches to the **BASE** and the **602A** be sure to secure them tightly see **C**.



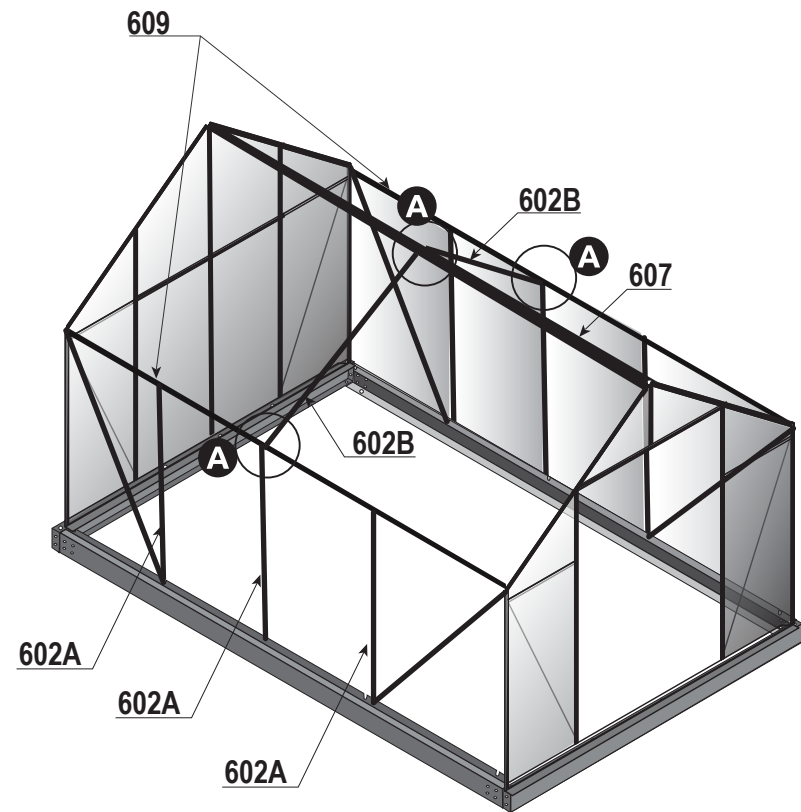
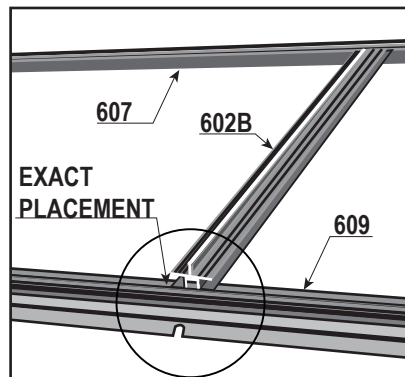
MIDDLE ASSEMBLY CONTINUED

4.11 Attach (2) **602B's** to **609's** and **607's** as shown in diagram **A** on both sides of the upper roof section. Note the exact placement on the outside see **B**.
Do not attach remaining **602B's** to lower roof section until roof vents are attached.

A Inside View



B Outside View



STEP FOUR

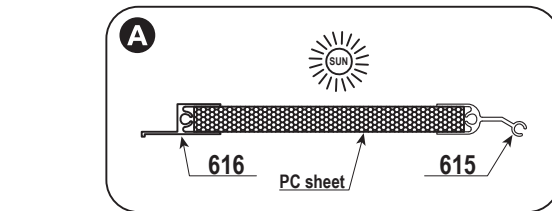
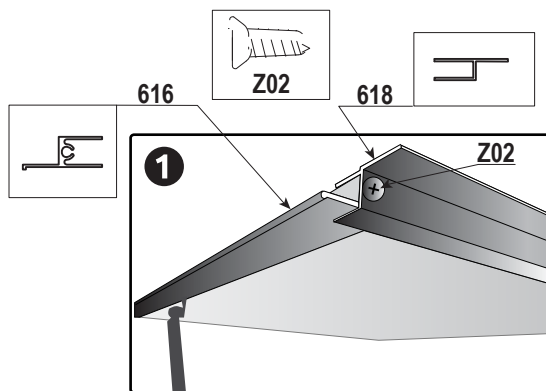
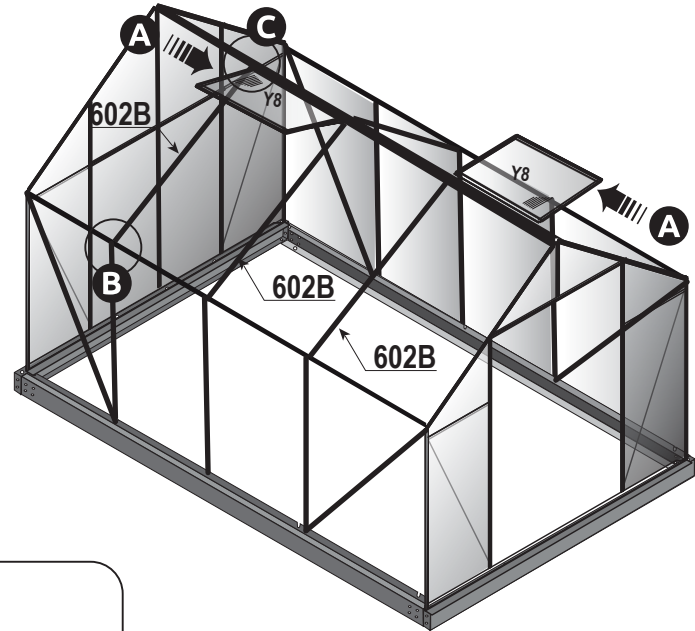
MIDDLE ASSEMBLY CONTINUED

STEP FOUR

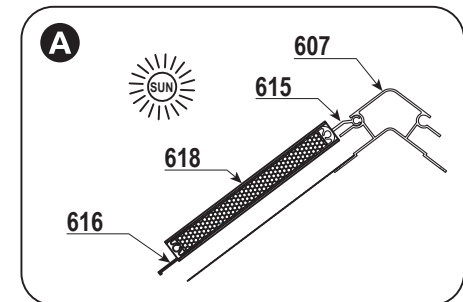
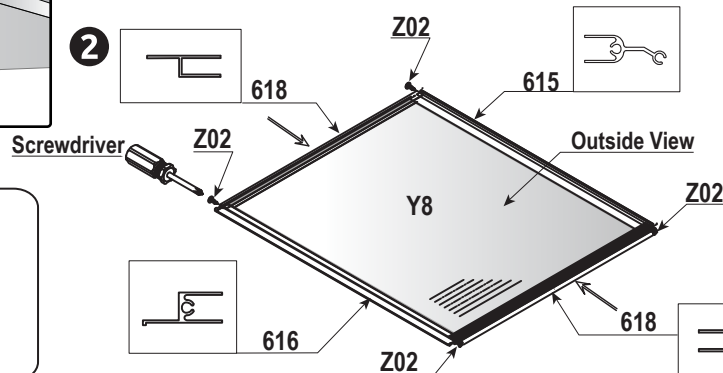
4.12 Assemble the roof window vents as shown below in **1** and **2**, using the **Z02** screws attach the **615**, **616**, and **618's** with the **Y8** panel as shown. Be careful not to strip screw heads. Pay attention to the **Y8** panel, stickers face the sun, and that the frames are assembled according to images below.

4.13 Insert assembled window into the end of ridge of **607** and slide into position. See **A**. Window positions are your discretion however, must be in the middle for support, do not place nearest the front or back as you will need a **602B** support to keep in window vent in place. Place directly across from each other for best cross draft ventilation, see **C** for optional placement. Attach the **602B's** as shown between **B** and **C**, after all roof vents are positioned.

4.14 Attach all remaining **602B's** after roof vents are positioned.



Note Correct Orientation

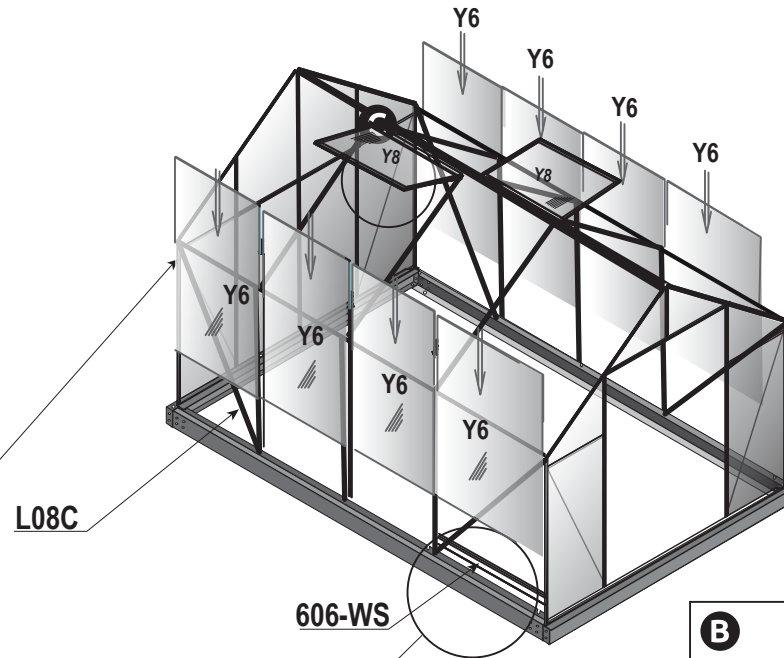


Place roof windows in desired location before attaching all **602B's**.

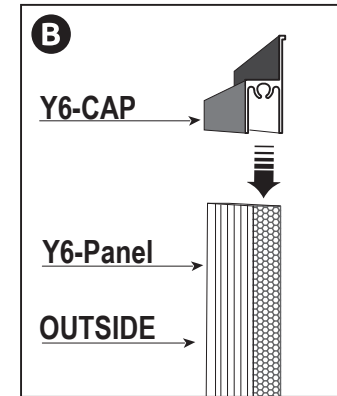
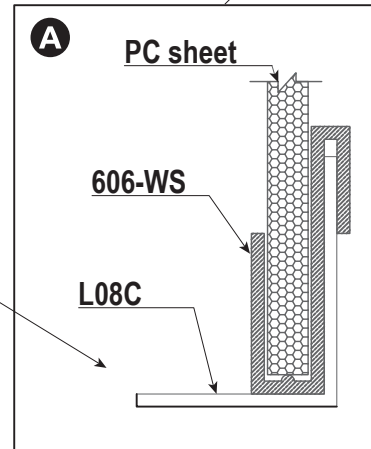
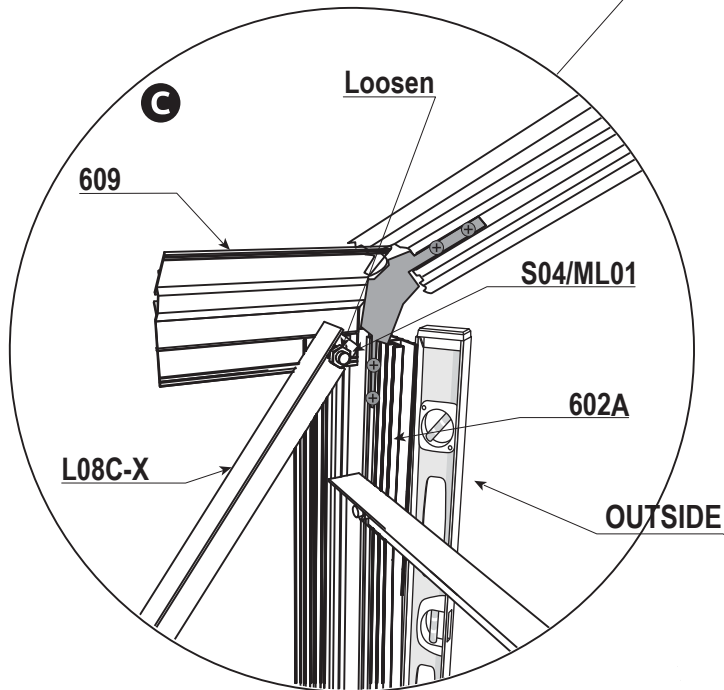
MIDDLE ASSEMBLY CONTINUED

4.15 Install plastic strip **606-WS** before inserting polycarbonate sheet **Y6's**, see **A**. You will attach the **Y6-CAP's** to the top of each **Y6** prior to installation see **B**. Install all **Y6** panels into the channel's of the side walls, and fit down into the **606-WS**.

4.16 After **Y6's** are installed, loosen bolts attached to **L08C-X** in all upper corners. Using a level, adjust **602A** and tighten bolts. Repeat in every corner until the greenhouse is plumb. The top edges of **Y6's** will align when greenhouse is level or plumb. See **C**.



STEP FOUR



Make sure the UV coated side of the panel faces outward as indicated on the panels. Avoid placing the polycarbonate panels in the sun or near plants until fully assembled.

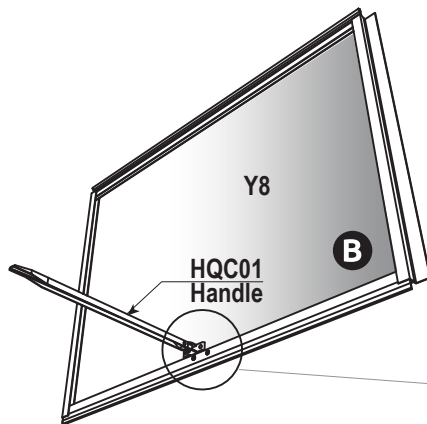
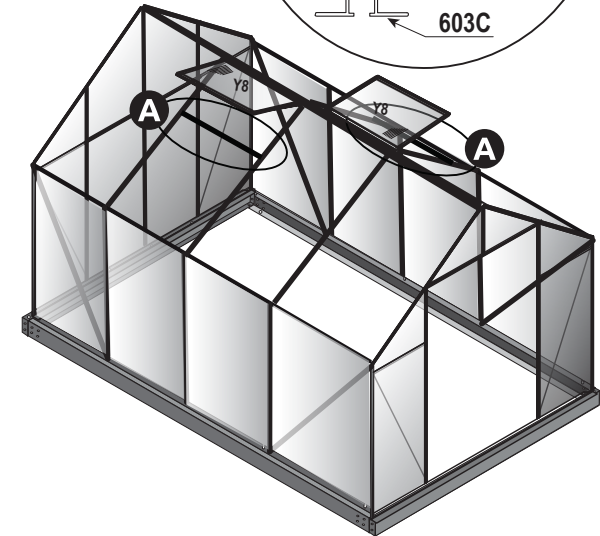
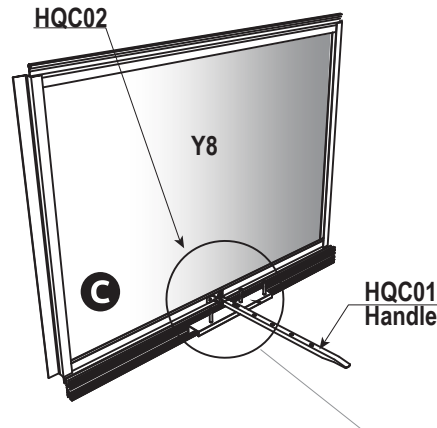
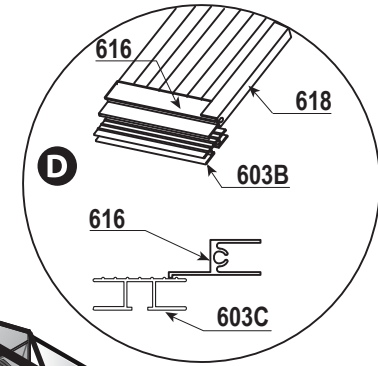
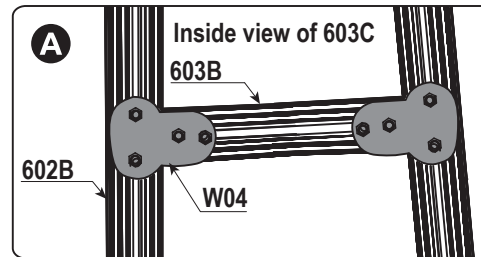
MIDDLE ASSEMBLY CONTINUED

STEP FOUR

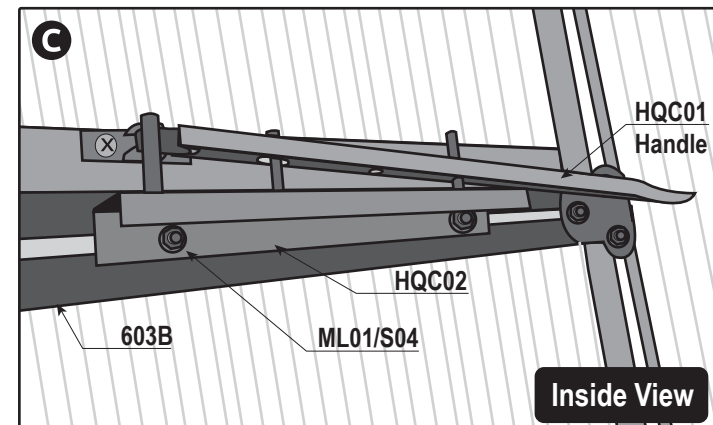
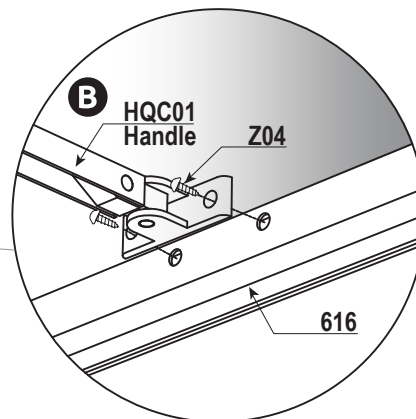
4.17 To ensure there is no gap in roof vent position **603B** as shown in **(D)**. Connect **603B** to middle of **602B's** using **W04** bracket as shown in **(A)**.

4.18 Attach **HQC01** to **616** with the **Z04** screws see **(B)**, close roof vent and attach the handle onto **HQC02** middle pin (the first two holes of the handle to the second and third pins of **HQC02**). Then attach **HQC02** into **603C's** track with **S04/ML01** (nuts and bolts), see **(C)**.

Note: If you are installing automatic roof vent openers follow those directions for correct installation. SAVE MANUAL OPENERS FOR WINTER SWITCHOUT.



Inside View



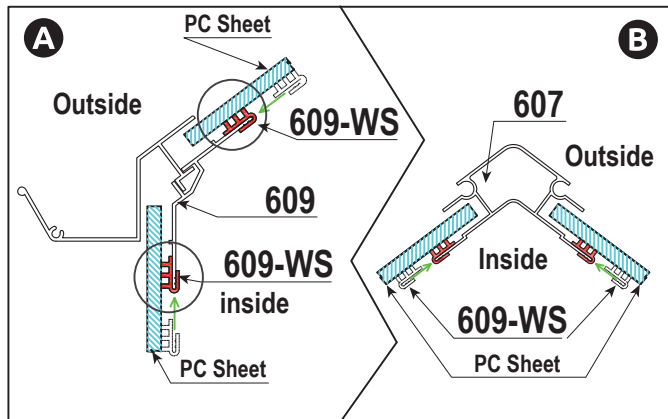
Inside View

MIDDLE ASSEMBLY CONTINUED

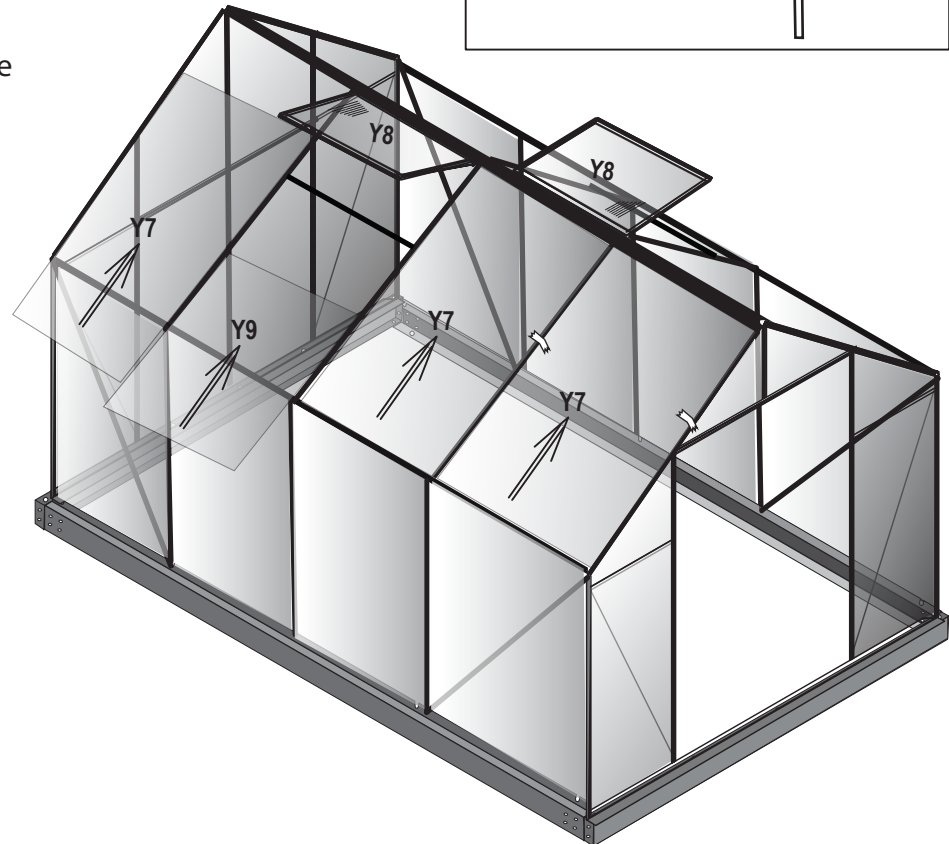
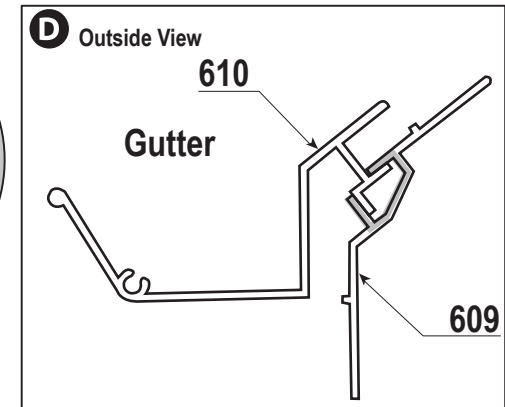
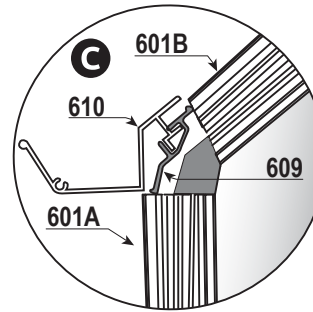
4.19 Attach **609-WS** to the inner roof line of the **607** and on both top and bottom of **609** as shown in **A** and **B**.

4.20 Insert polycarbonate sheets **Y7's** and **Y9's** into the lower roof of your greenhouse. Panels may slide out before gutters are in place. You may want to place a piece of tape on the panel to prevent sliding as shown in the diagram once the panels are in place.

4.21 Slide **610 Gutters** into **609's** groove as shown in the diagrams **C** and **D**. Repeat on both sides.



Note that there are two parts labeled **609 & 609-WS**, one is the gutter support, the other is a clip that fits under polycarbonate panels inside greenhouse.

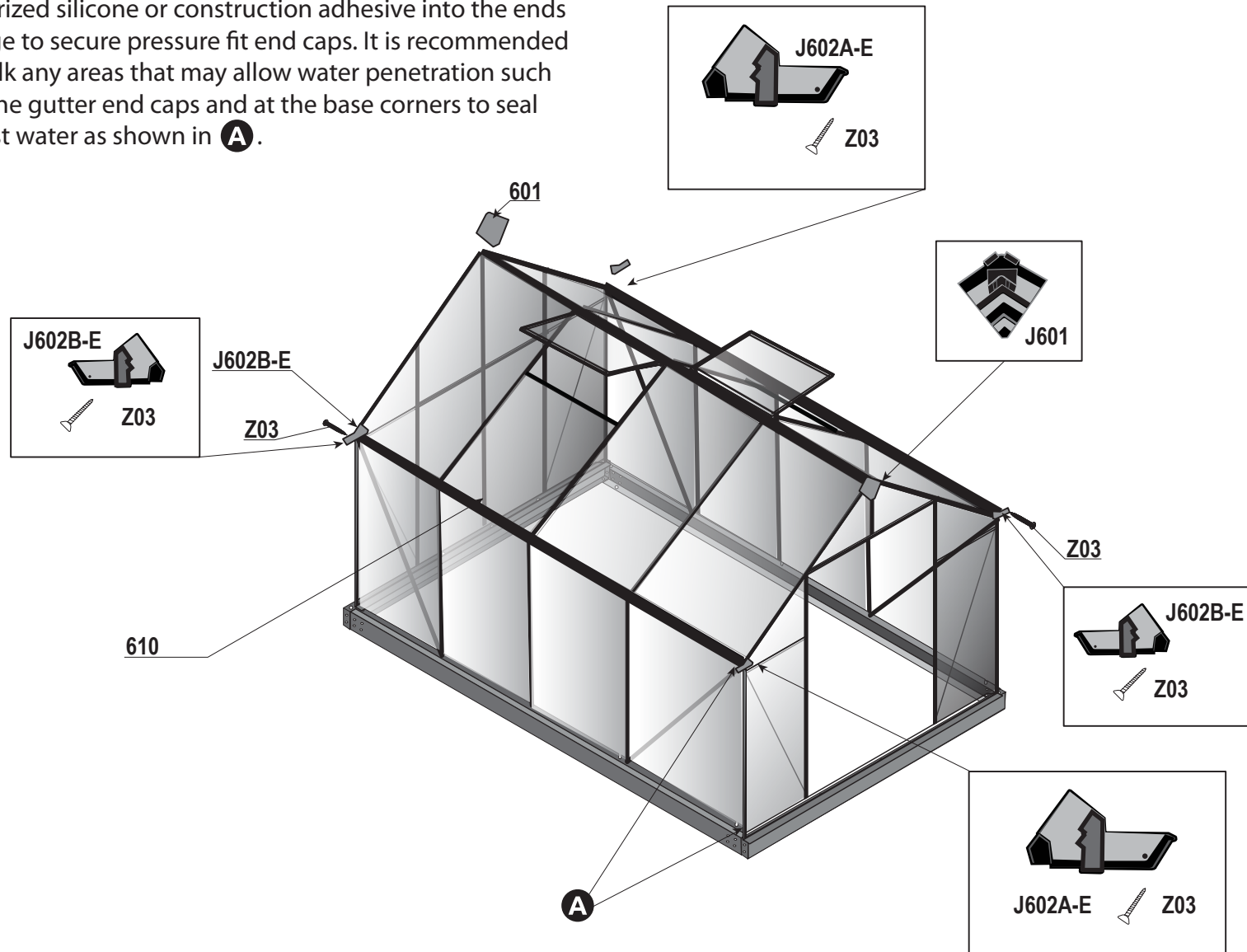


STEP FOUR

MIDDLE ASSEMBLY CONTINUED

4.22 Attach end caps to the ridge and gutters on both front and back as shown below. Squeeze a small amount of rubberized silicone or construction adhesive into the ends of ridge to secure pressure fit end caps. It is recommended to caulk any areas that may allow water penetration such as at the gutter end caps and at the base corners to seal against water as shown in **A**.

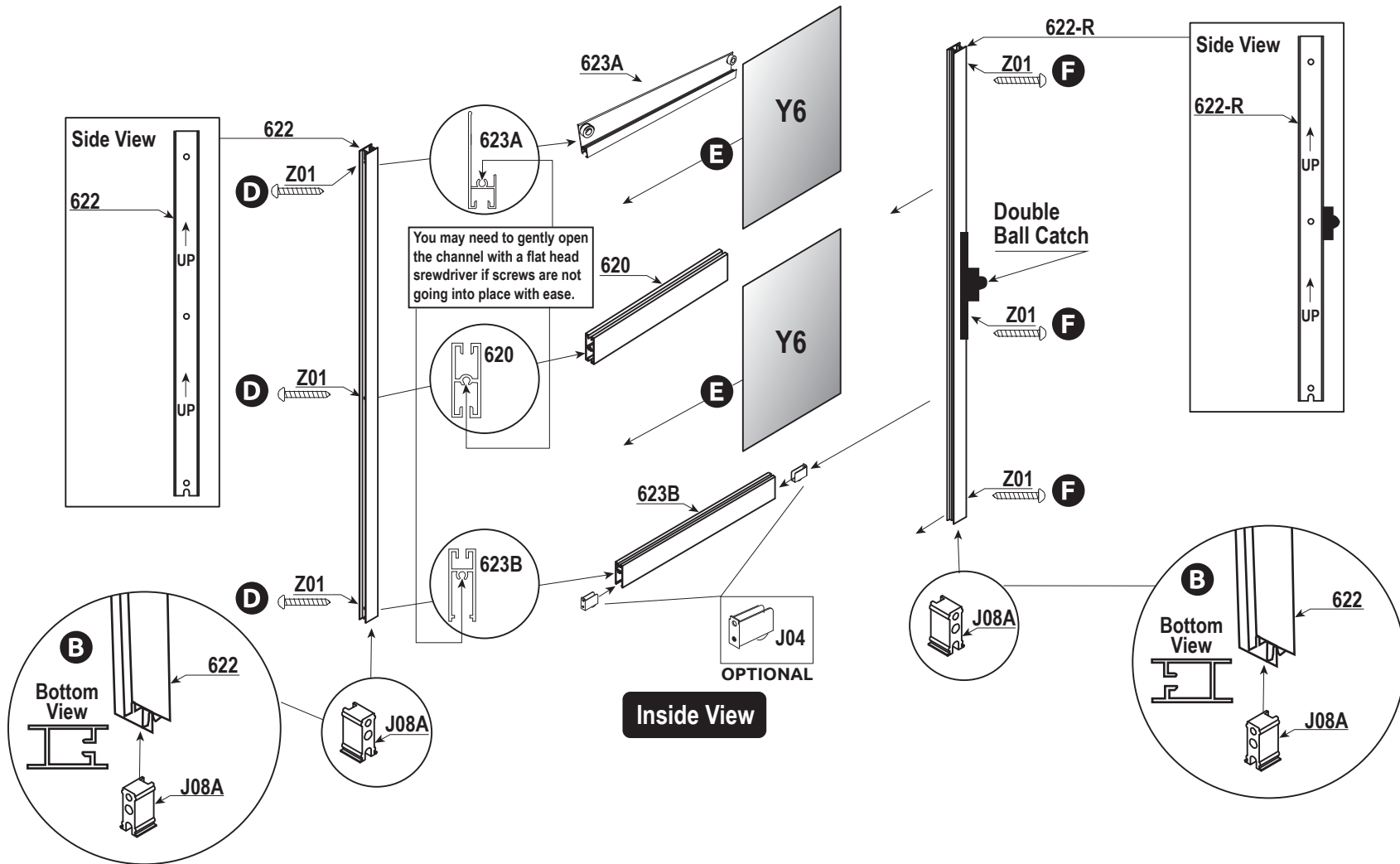
STEP FOUR



DOOR ASSEMBLY DIAGRAM

This image shows the inside view of Right Door Assembly.
All parts for door assembly will be found in box GRA-ELI-8A and GRA-ELI-8P.
Use the #2 head Phillips Screw Driver for installation.

STEP FIVE



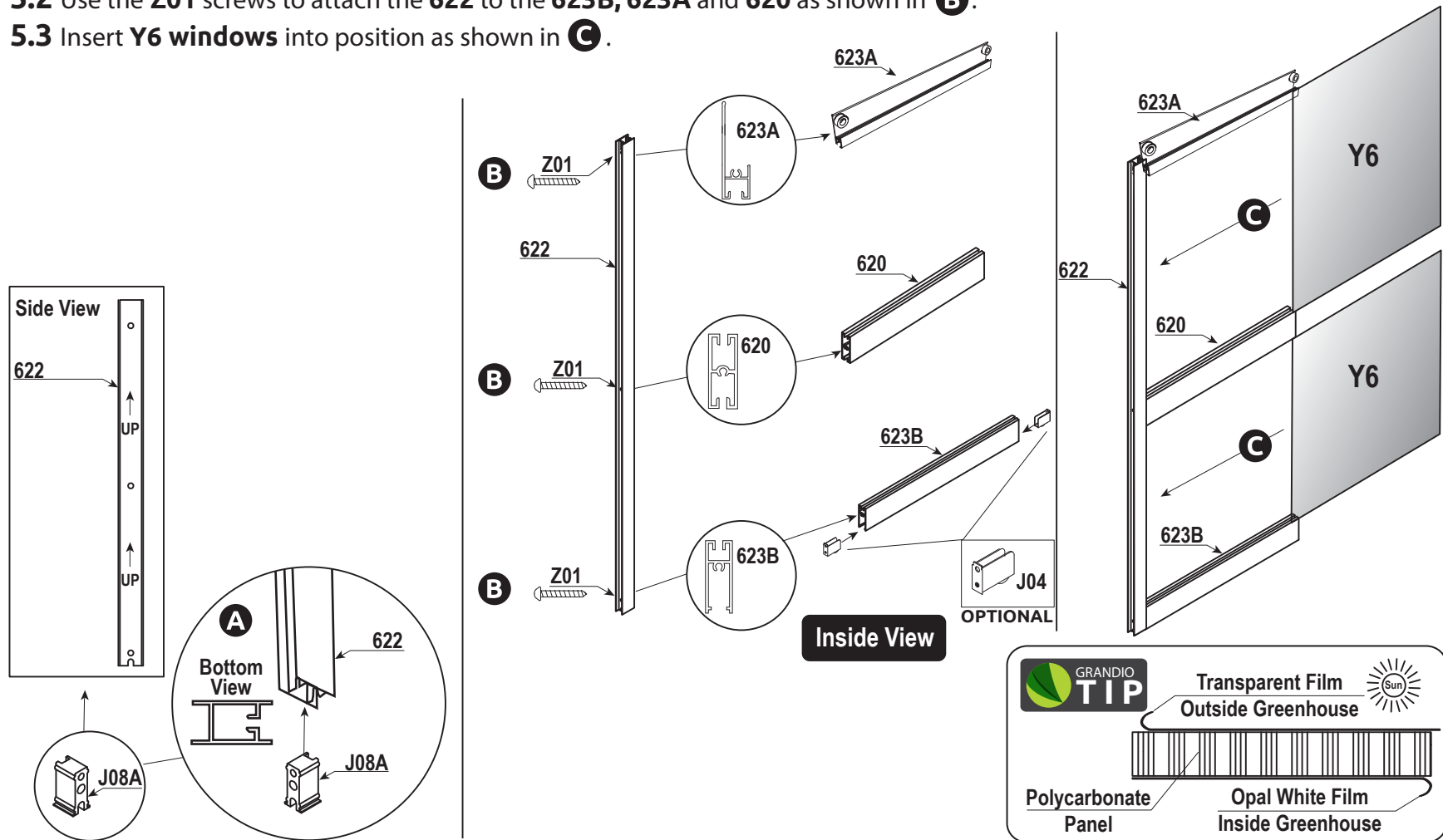
DOOR ASSEMBLY

We recommend you lay out all parts for both doors to make sure they match up correctly for hanging. Double check the orientation of what is inside versus outside and how the doors will hang on page 63-67. Make sure window panels face the right direction to the sun and note that the panels have predrilled holes for the handles to attach later and these need to be aligned with the lock mechanisms. This will save you from assembling the wrong way.

5.1 Insert **J08A** into the bottom of the **622**, note the bottom groove is smaller than the top groove of **622**, see **(A)**.

5.2 Use the **Z01** screws to attach the **622** to the **623B**, **623A** and **620** as shown in **(B)**.

5.3 Insert **Y6 windows** into position as shown in **(C)**.



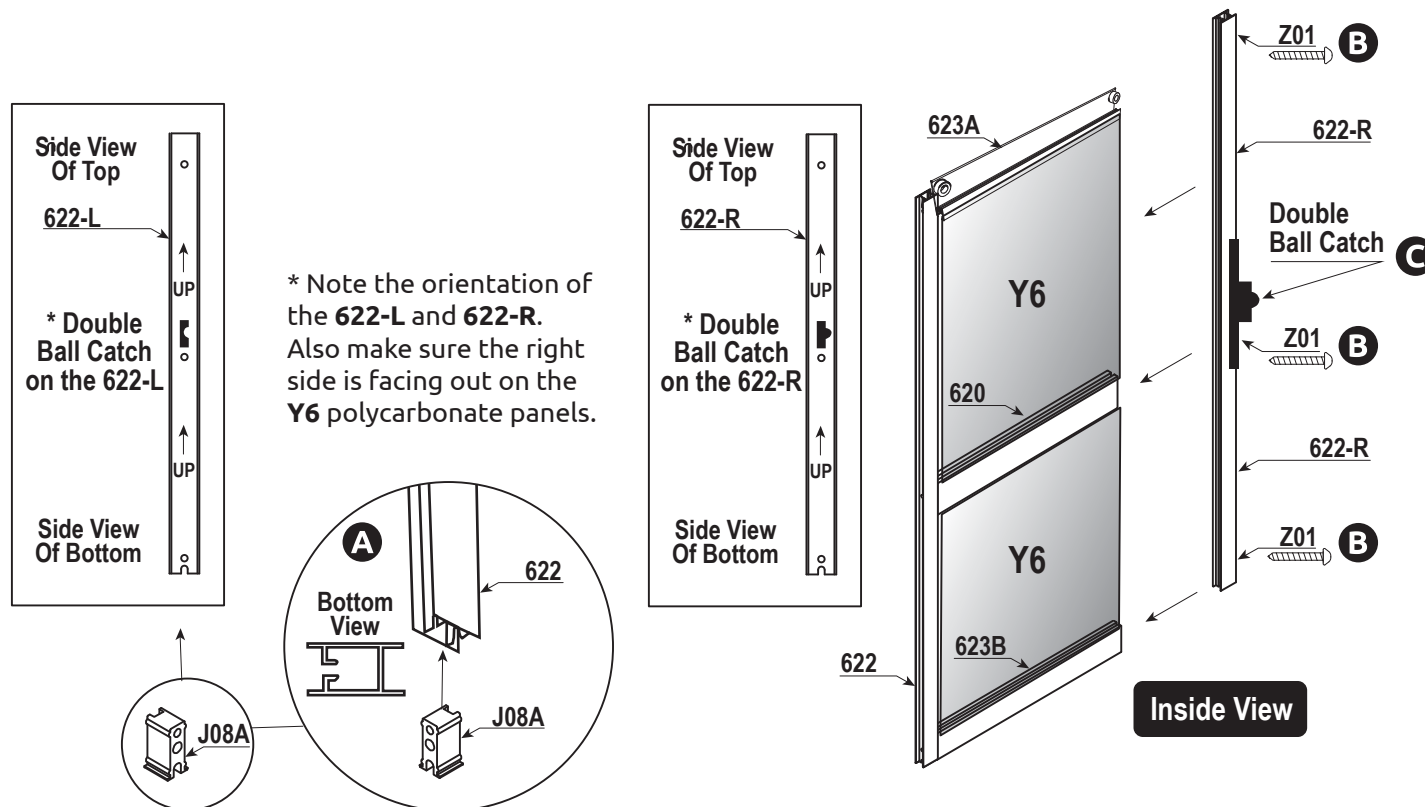
DOOR ASSEMBLY CONTINUED

5.4 Insert **J08A** into the bottom of the **622**, note the bottom has a groove see **A**.

5.5 Attach the **622-L** to the **623B**, **623A** and **620** using the **Z01** screws as shown in **B**.

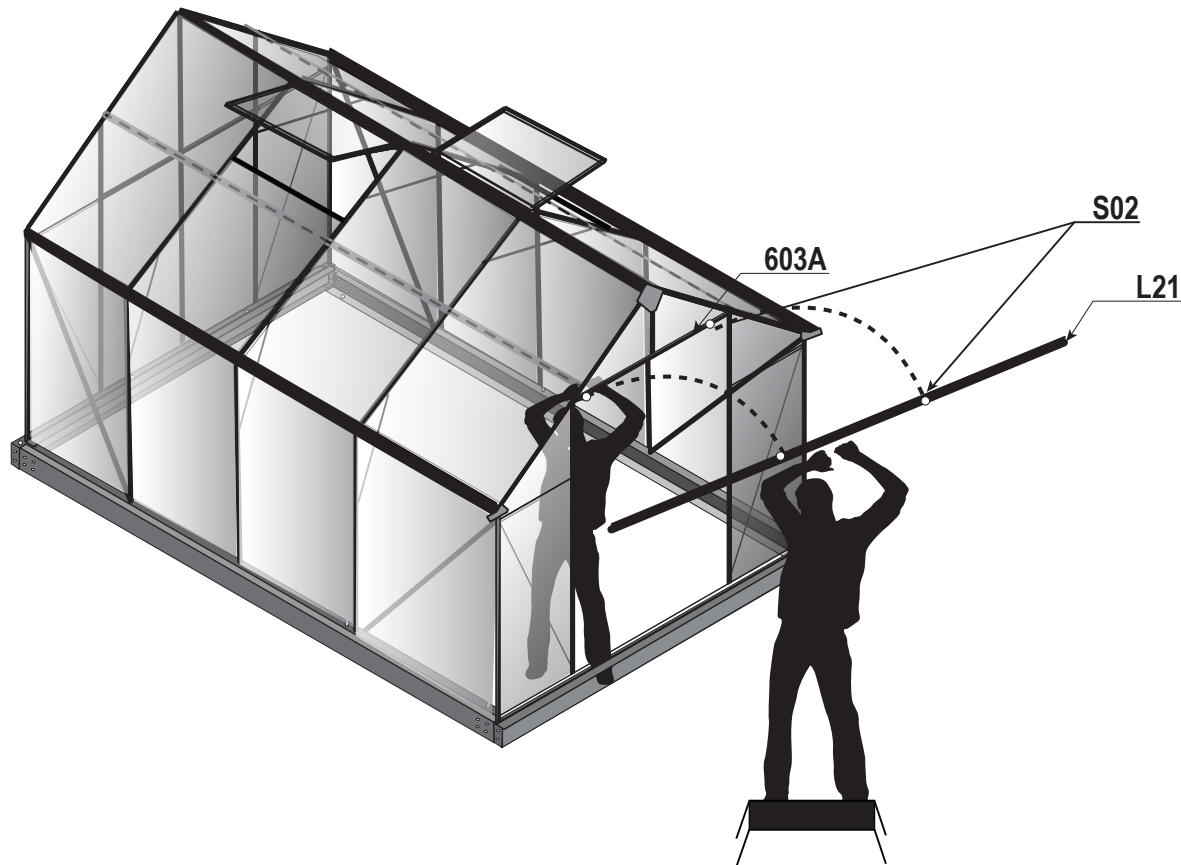
5.6 Follow the same instructions for the other door making sure that the **622-L** and **622-R** with the double ball catch match up so doors will latch closed and slide properly **C**.

STEP FIVE



DOOR INSTALLATION

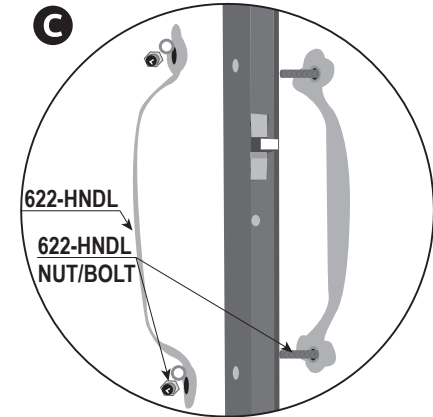
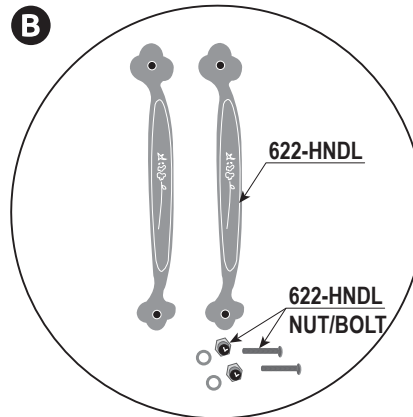
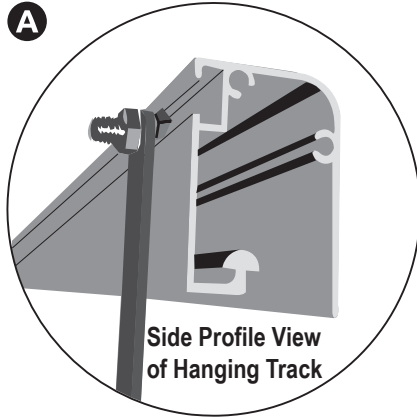
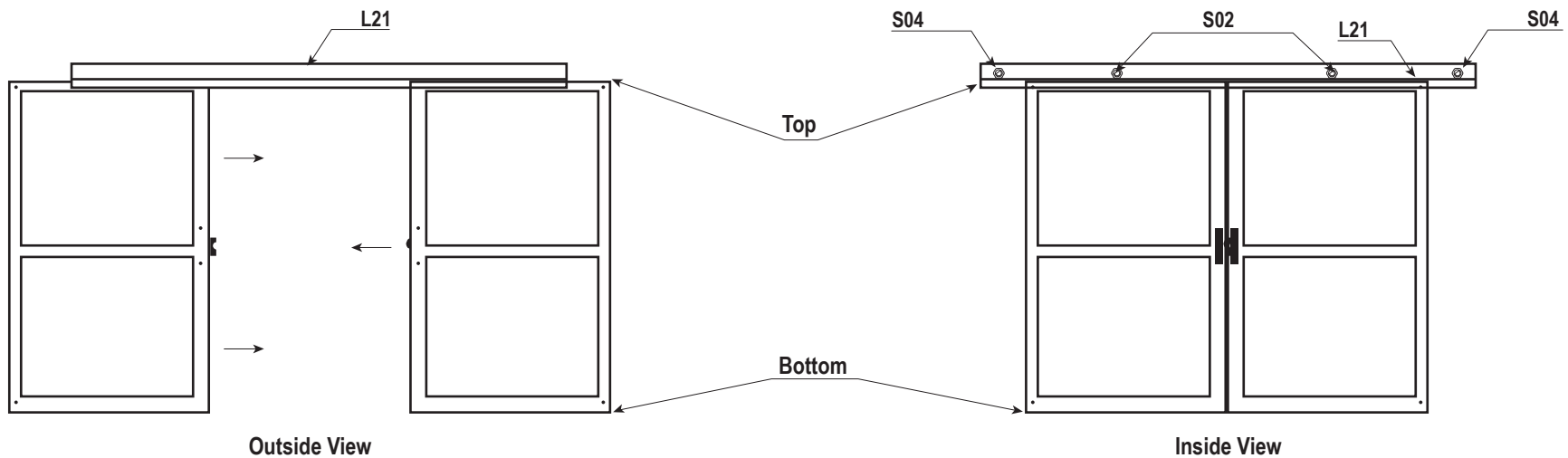
5.7 Slide the (2) **S02** bolts down the track of the **L21**, align with the holes on the **603D** door header. With one person inside the greenhouse line up hanging door track **L21** with door header **603D**, move bolts on **L21** to line up with bolt holes on door header **603A**. From the inside hand tighten the **ML01** nut while the person outside is holding the **L21** in position, you will now center on the front of the greenhouse and tighten the **S02/ML01** combo.



DOOR INSTALLATION

5.8 Separately slide the top of the doors in the left and right side of **L21**, see diagram **A**, until they latch in the middle.

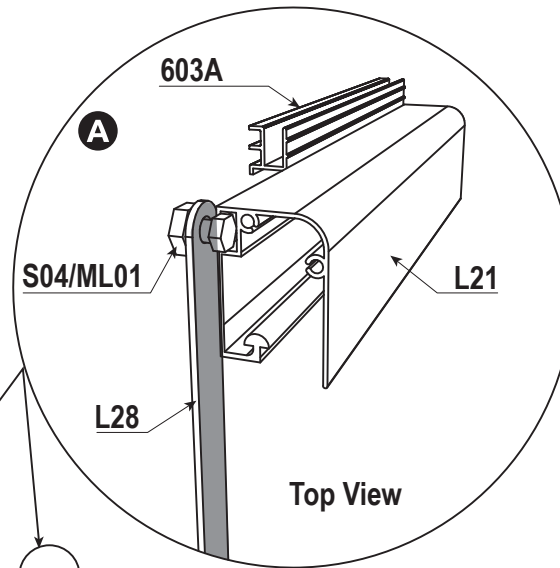
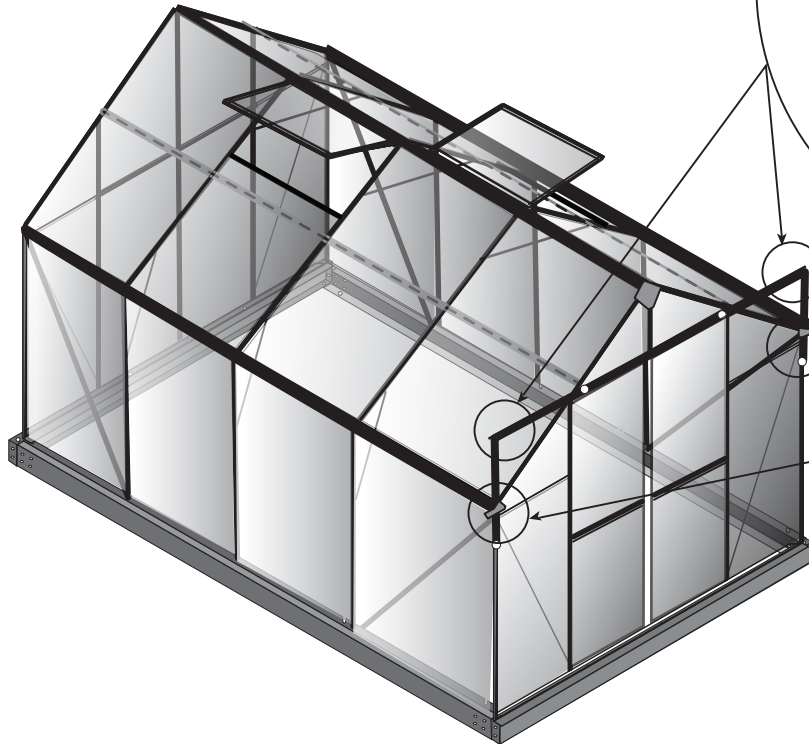
5.9 Attach the door handles **622-HNDL** to both doors using the **622-HNDL-NUT/BOLT** provided to both doors as shown below in **B**, and **C**.



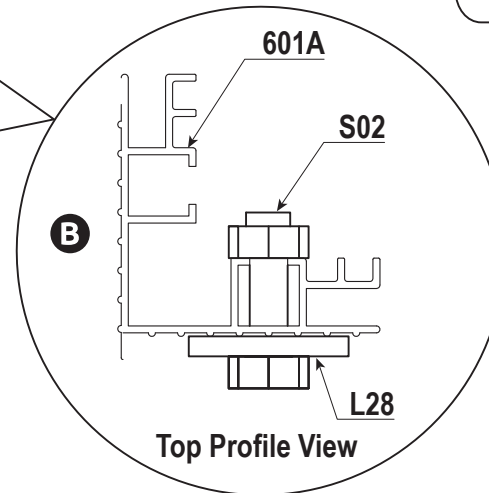
DOOR INSTALLATION

5.10 Attach **L28** to **L21** with **S04/ML01**, and **L28** to **601A** with **S02/ML01** as shown below in diagram **A** and **B**. Check that the **L21** and **L28**'s are square. Attach (2) **J07** to the ends of **L21** see **C**. The **L28** should align square to the **601A**.

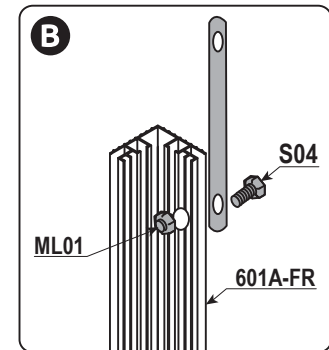
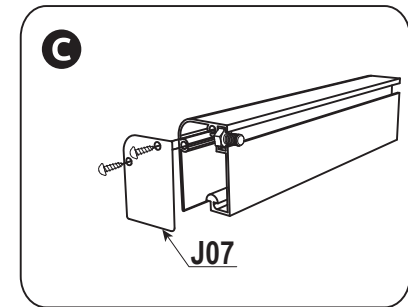
5.11 Check that the door locks are snug, you may adjust them with screwdriver if needed as they can be tightened or loosened.



Top View



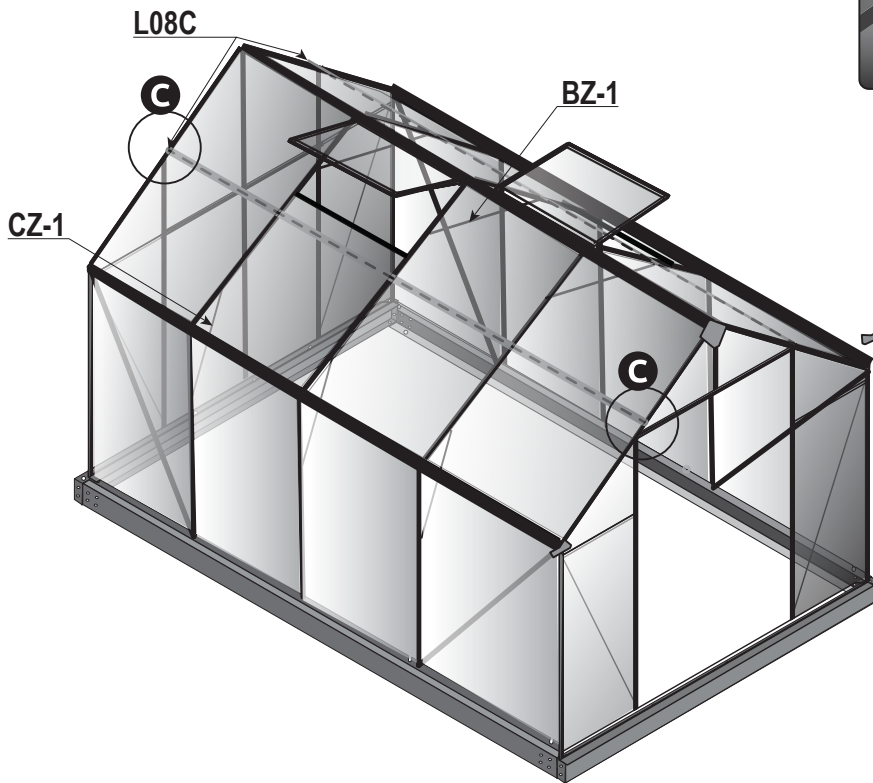
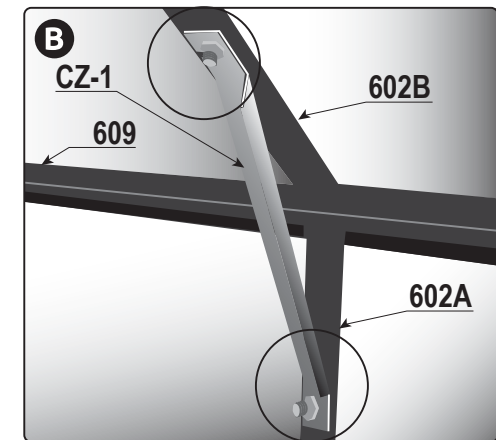
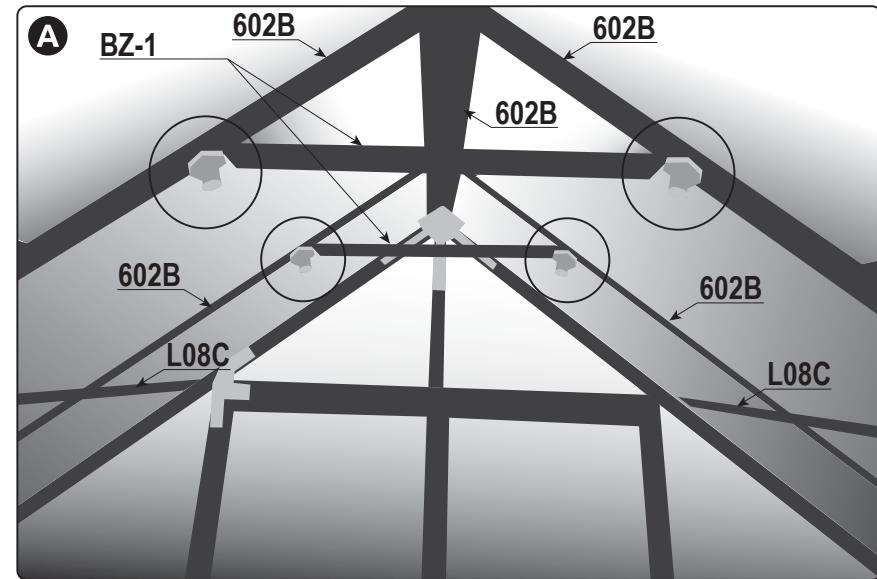
Top Profile View



6.1 Attach the **BZ-1's** to the roof line as shown in diagram **A** with the **S04/ML01**. Use **CZ-1's** to support the interior wall at the eave using the **S04/ML01**. See diagram **B**.

6.2 Use **S04/ML01** to attach the **L08C's** to **601B's** and **602B's** on the inside of roof midway between the roof and the gutters for additional roof support. See diagram **C**.



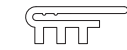

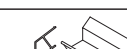

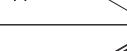
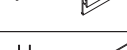





6.3 You may remove all stickers now with Goo Gone if needed.



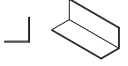

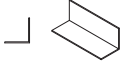
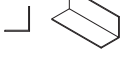
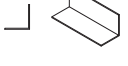

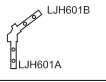

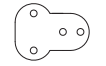

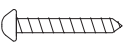

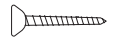
Congratulations
You are now finished with assembly!

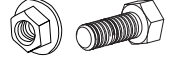
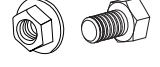





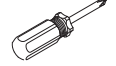
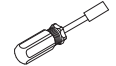
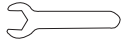

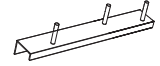
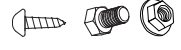
(GRA-ASC-8A) GRANDIO ASCENT 8'X8' ALUMINUM PACKING LIST

GRAPHIC	PART NAME	SIZE/LOCATION	QUANTITY
	601A-B	52 1/2 in / 1334 mm BACK CORNERS	2
	601A-FL	52 1/2 in / 1334 mm FRONT LEFT CORNER	1
	601A-FR	52 1/2 in / 1334 mm FRONT RIGHT CORNER	1
	601B	57 1/8 in / 1451 mm CORNER ROOF	4
	602A	52 1/2 in / 1334 mm	6
	602B	57 1/2 in / 1451 mm	6
	602C	87 1/4 in / 2216 mm	1
	602D	70 3/8 in / 1787 mm	2
	603A	47 5/16 in / 1201 mm	1
	603B	21 7/8 in / 555 mm	8
	603C	17 in / 431 mm	1
	604-R	68 7/8 in / 1750 mm FRONT RIGHT	1
	604-L	68 7/8 in / 1750 mm FRONT LEFT	1




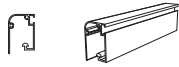

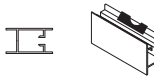







GRAPHIC	PART NAME	SIZE/LOCATION	QUANTITY
	606-WS	21 3/4 in / 553 mm WINDOW SEAL	14
	607	94 1/4 in / 2394 mm	1
 BLACK WINDOW SEAL	609-WS	21 5/8 in / 550 mm WINDOW SEAL	22
	609	94 1/4 in / 2394 mm	2
	610	94 3/8 in / 2397 mm	2
	615	22 3/4 in / 578 mm	2
	616	22 3/4 in / 578 mm	2
	618	19 3/4 in / 500 mm	4
	619 PACK THRESHOLD BAR AND SCREW	94 1/4 in / 2394 mm	1
	BZ-1	23 5/8 in / 600 mm ROOF SUPPORT	3
	CZ-1	19 11/16 in / 500 mm EAVE SUPPPORT	6
	L08A NOTE THESE ARE PACKED TOGETHER	94 1/4 in / 2394 mm	1
	L08B	94 1/4 in / 2394 mm	1

(GRA-ASC-8A) GRANDIO ASCENT 8'X8' ALUMINUM PACKING LIST

GRAPHIC	PART NAME	SIZE/LOCATION	QUANTITY
	L08C	94 1/4 in / 2394 mm	2
	L08D	24 3/4 in / 614 mm	2
	L08A-X	48 7/8 in / 1242 mm	2
	L08B-X	48 7/8 in / 1242 mm	2
	L08C-X	57 5/16 in / 1456 mm	4
	W01	ROOF	2
	W02	FRONT & BACK	4
	W02T	FRONT & BACK	2
	W04	ROOF LINE	5
	W04-1	BACK WALL	2
	Z01	M4*30 Screws for Doors	13
	Z02	M3.5*16 Screws for Roof Vents	9
	Z03	M3*25 Screw for End Caps	4

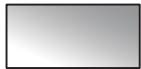











GRAPHIC	PART NAME	SIZE/LOCATION	QUANTITY
	S02	M6*20	4
	ML01/S04	M6*10	140
	S05	M6*14 For W01 and W02	30
	J601	END CAPS	2
	J602A-E	END CAPS	2
	J602B-E	END CAP	2
	L28	22 in / 558 mm	2
	W11	SCREW DRIVER	1
	W13	10 MM NUT DRIVER	1
	W16	10 MM WRENCH	1
	HQC01	ROOF VENT ARM	2
	HQC02	ROOF VENT LATCH	2
	Z04, S04/ML01	ROOF VENT HARDWARE	4 EACH

(GRA-ASC-8A) GRANDIO ASCENT 8'X8' ALUMINUM PACKING LIST

GRAPHIC	PART NAME	SIZE/LOCATION	QUANTITY
	622-HNDL	DOOR HANDLES	4
	622-HNDL NUT/BOLT	DOOR HARDWARE	4
	620	21 7/16 in / 545 mm	2
	L21	95 1/2 in / 2425 mm	1
	622	67 7/8 in / 1724 mm	2
	622-L	67 7/8 in / 1724 mm	1
	622-R	67 7/8 in / 1724 mm	1
	623A	21 7/16 in / 545 mm	2
	623B	21 5/16 in / 542 mm	2
	J04	DOOR BOTTOM ROLLER	4
	J07	L21A END CAP	2
	J08A	DOORS	4
	S10	M6*16 Attaches 619 to Base	3

GRAPHIC	PART NAME	SIZE/LOCATION	QUANTITY
	Y6-CAP	CAP FOR Y6 PANELS	8

(GRA-ASC-8P) GRANDIO ASCENT 8'X8' PANEL PACKING LIST

GRAPHIC	PART #	SIZE/LOCATION	WIDTH	HEIGHT 1	HEIGHT 2	QTY
	Y1	LOWER BACK WALL PANEL	22 3/4 in / 578 mm	44 in / 1118 mm		6
	Y2-1	FRONT UPPER SIDEWALL	22 3/4 in / 578 mm	8 1/4 in / 209 mm	25 5/16 in / 643 mm	2
	Y2-2	FRONT UPPER SIDEWALL	22 3/4 in / 578 mm	25 5/16 in / 643 mm	8 1/4 in / 209 mm	2
	Y3-1	FRONT UPPER PEAK	22 3/4 in / 578 mm	11/16 in / 18 mm	17 3/4 in / 451 mm	1
	Y3-2	FRONT UPPER PEAK	22 3/4 in / 578 mm	17 3/4 in / 451 mm	11/16 in / 18 mm	1
	Y4-1	BACK MIDWALL	22 3/4 in / 578 mm	25 3/4 in / 654 mm	42 13/16 in / 1088 mm	1
	Y4-2	BACK MIDWALL	22 3/4 in / 578 mm	42 13/16 in / 1088 mm	25 3/4 in / 654 mm	1
	Y5	DOOR PANEL	22 3/4 in / 578 mm	33 in / 839 mm		4
	Y6	SIDE PANEL	22 3/4 in / 578 mm	52 1/16 in / 1322 mm		8
	Y7	ROOF PANEL	22 3/4 in / 578 mm	58 1/8 in / 1477 mm		6
	Y8	ROOF VENT PANEL	22 3/4 in / 578 mm	19 1/8 in / 486 mm		2
	Y9	UNDER ROOF VENT	22 3/4 in / 578 mm	36 7/8 in / 937 mm		2

[illegible][illegible]

Grandio Greenhouse Limited Lifetime Warranty

- 1.** Grandio Greenhouses are warranted to the original purchaser to be free from defects in material or workmanship for ten years from the date of original retail purchase on all plastic panels. Additionally the aluminium frame is warrantied for life. The word “defects” is defined as imperfections that impair the use of the product.
- 2.** Defects resulting from misuse, abuse or negligence will void this warranty. This warranty does not cover defects due to improper installation, alteration of accident. This warranty does not cover damage caused by vandalism, rusting, “acts of nature” or any other event beyond the control of the manufacturer.
- 3.** This warranty is nontransferable and is expressly limited to the repair or replacement of defective product if the product is defective within the terms of this warranty, Grandio Greenhouses will repair or replace defective parts at no cost to the purchaser. Shipping charges to and from the factory or distribution center are not covered and are the responsibility of the purchaser. Labor charges and related expenses for removal, installation or replacement of the greenhouse or its components are not covered under this warranty.
- 4.** This warranty does not cover scratching or scuffing of the product that may result from normal usage. In addition, defects resulting from intentional damage, negligence, unreasonable use will void this warranty.
- 5.** Liability for incidental or consequential damages is excluded to the extent permitted by law. While every attempt is made to embody the highest degree of safety in all equipment, freedom from injury cannot be guaranteed. The user assumes all risk of injury resulting from the use of this product. All merchandise is sold on this condition, and no representative of the company may waive or change this policy.
- 6.** This product is not intended for institutional or commercial use; Grandio Greenhouses does not assume any liability for such use.
- 7.** This warranty is expressly in lieu of all other warranties, expressed or implied, including warranties of merchantability for use to extent permitted by Federal and State Law. Neither Grandio Greenhouses nor any representative assumes any other liability in connection with this product. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.



GRANDIO

G R E E N H O U S E S

2015 Model Grandio Ascent 8x8

**GREENHOUSE USER MANUAL
KEEP IN A SAFE PLACE FOR REFERENCE**

CONTACT US IF YOU NEED HELP
OR
HAVE MISSING OR DAMAGED PARTS

GRANDIOGREENHOUSES.COM

**BACKYARD LIVING SOURCE, INC.
9543 W. EMERALD ST., SUITE 101
BOISE, ID 83704
1-866-928-3150**