



GRANDIO[®]

G R E E N H O U S E S

GRANDIO ELEMENT WITH STEEL BASE KIT MANUAL FOR SIZES 6X4, 6X8 & 6X12



Grandio Element 6x8 with Base Kit
Shown In Image

GREENHOUSE USER MANUAL

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April 18, 2017 Extendable Element Models with Steel Base Kit

STOP

This manual is for
Element models with
Steel Base Kits for sizes,
6x4, 6x8 and 6x12 or
adding on 4' extension
kits to models with
Steel Base kits.



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 on pages 57-63. The base kit parts list is at the front on page 12.
- ☐ 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 white film side faces inside greenhouse. Panels may scratch easily so be 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 you 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, plan to complete assembly in one day. **Damage caused by incomplete assembly is not covered by warranty.**
- ☐ 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 57-63. 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 a 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. If not properly installed warranty may be void.

NEEDED FOR ASSEMBLY

- | | | |
|----------------------------|---------------------------|--------------------------------|
| • Tape Measure | • 2 Step Ladders | • Safety Glasses |
| • Level | • Work Gloves | • Drill |
| • Carpenter Square | • Permanent Marker | • Silicone Caulk |
| • 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.



GRANDIO®

G R E E N H O U S E S

ASSEMBLY INSTRUCTION STEPS

PREPARE FOR ASSEMBLY

STEP ONE: BASE ASSEMBLY

STEP TWO: FRONT ASSEMBLY

STEP THREE: BACK ASSEMBLY

STEP FOUR: MIDDLE ASSEMBLY

STEP FIVE: DOOR ASSEMBLY

Introduction.....	1
Safety Instructions.....	2
Prepare For Assembly.....	4
Exterior Dimensions of Elements with Base Kits.....	5
Box Configurations	6
Diagrams of Assembled Grandio Sizes	
6x4, 6x8, 6x12.....	7-9
Base Kit Assembly Information.....	10
Base Kit Parts Lists.....	12
6x4 Base Kit.....	14
6x8 Base Kit.....	15
6x12 Base Kit.....	17
Base Kit Assembly and Installation.....	14-20
Front Assembly.....	21-26
Back Assembly.....	27-33
Middle Assembly.....	34-49
Door Assembly.....	50-56
GRA-ELE-64A & 68A Parts List.....	57-59
GRA-ELE-64P & 68P Parts List.....	60
GRA-ELE-4XA Parts List.....	61-63
Warranty.....	64

PREPARE FOR GREENHOUSE ASSEMBLY

⚠ **IMPORTANT: BASE KIT ASSEMBLY & GREENHOUSE PLACEMENT** ⚠

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 10-20 for base kit assembly information.

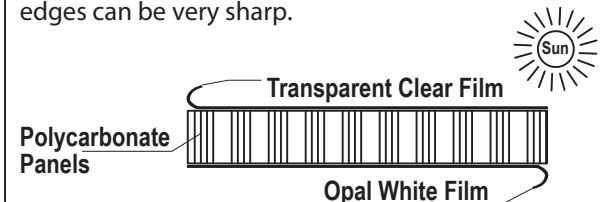
Go to **www.grandiogreenhouses.com** for foundation ideas and tour our online learning center for tips, tricks and videos for putting your greenhouse together.

⚠ **IMPORTANT: GREENHOUSE ASSEMBLY** ⚠

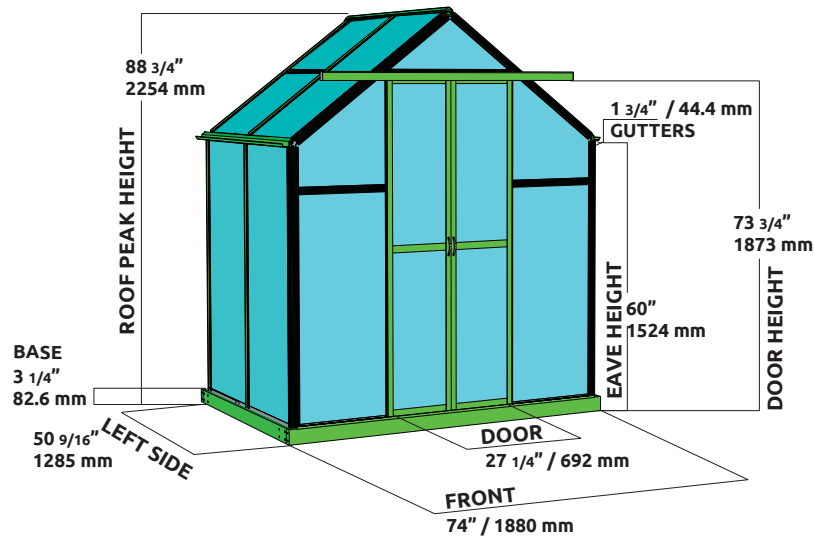
Before assembling your new greenhouse, you must have at least 2 people available to help. You must finish assembly in 1 day, do not leave a partially assembled greenhouse out in the elements. Your greenhouse must be anchored to your surface.

⚠ **IMPORTANT: POLYCARBONATE PANELS** ⚠

The UV-Protected side is covered with clear 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 clear 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.



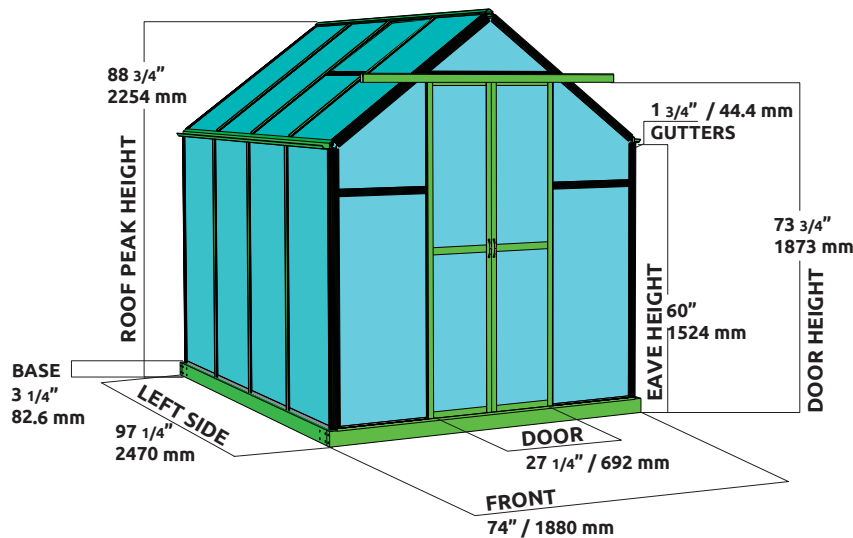
**6x4 GRANDIO ELEMENT A-FRAME STYLE
GREENHOUSE WITH DIRT MOUNT BASE KIT DIMENSIONS**



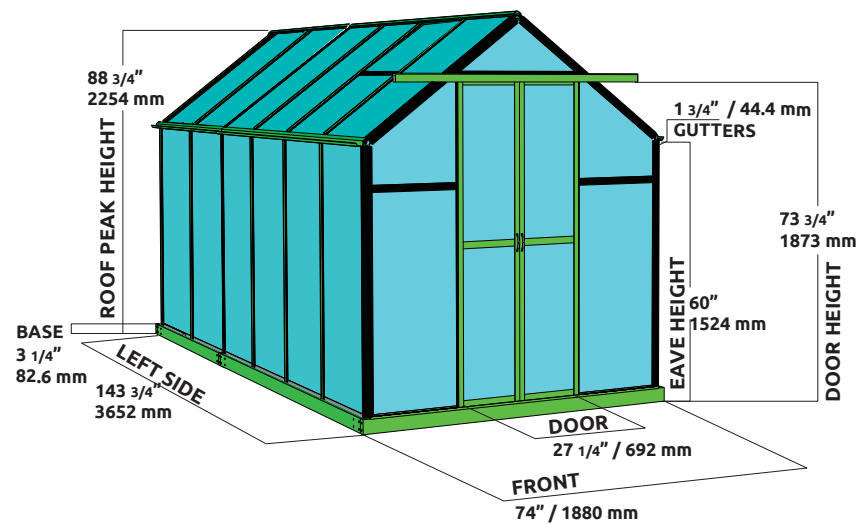
***SEE BASE KIT ASSEMBLY SECTION FOR ALL
GREENHOUSE BASE DIMENSIONS ON PAGES 14-17.**

- * INTERIOR DOOR DIMENSIONS: 27 1/4" WIDE X 69" HEIGHT
- * 1 ROOF VENT WITH 6X4
- * 2 ROOF VENTS WITH 6X8
- * 3 ROOF VENTS WITH A 6X12
- * IF USING A 4' EXTENSIONS KIT WITH A 6X4 KIT YOUR DIMENSIONS WILL BE THAT OF THE 6X8.
- * IF USING A 4' EXTENSION KIT WITH A 6X8 KIT, YOU WILL BE BUILDING A 6X12, THE LENGTH WILL BE 3652 MM OR 143 3/4".

**6x8 GRANDIO ELEMENT A-FRAME STYLE
GREENHOUSE WITH DIRT MOUNT BASE KIT DIMENSIONS**



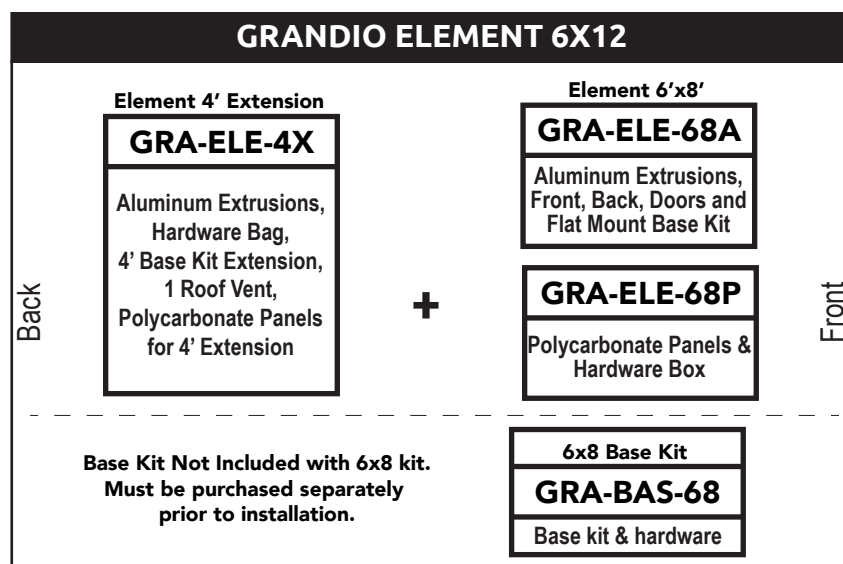
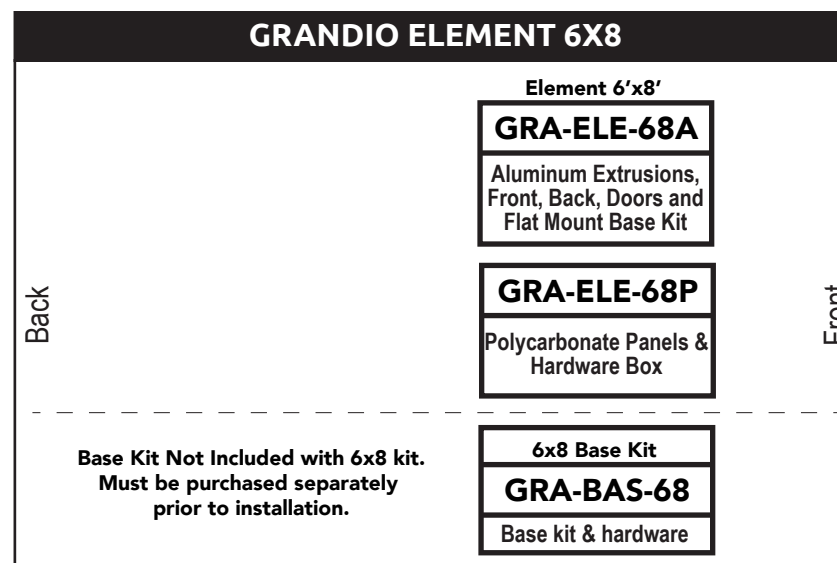
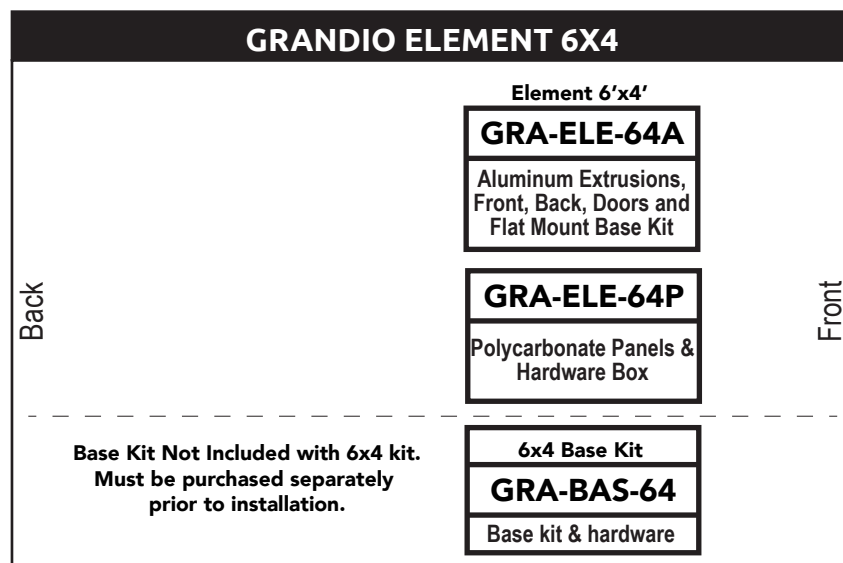
**6x12 GRANDIO ELEMENT A-FRAME STYLE
GREENHOUSE WITH DIRT MOUNT BASE KIT DIMENSIONS**



ELEMENT BOX CONFIGURATIONS

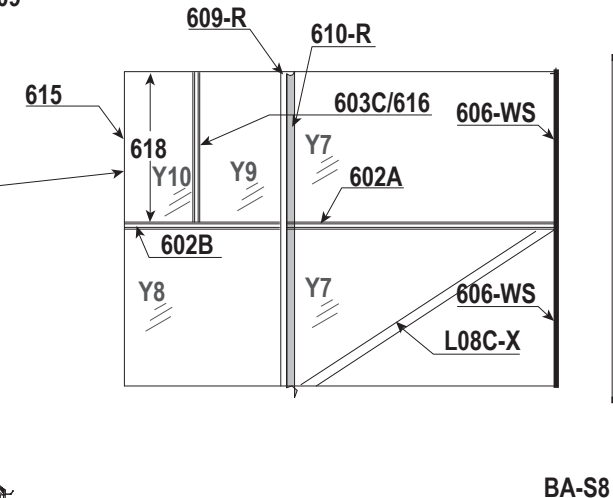
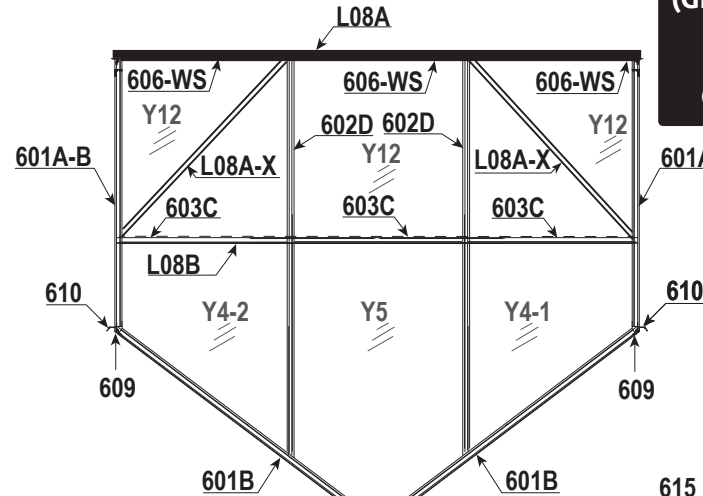
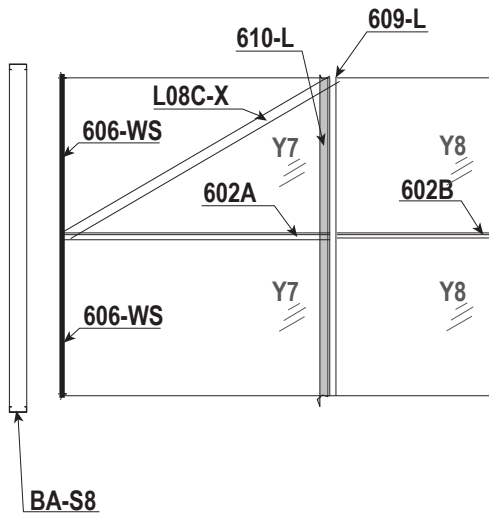
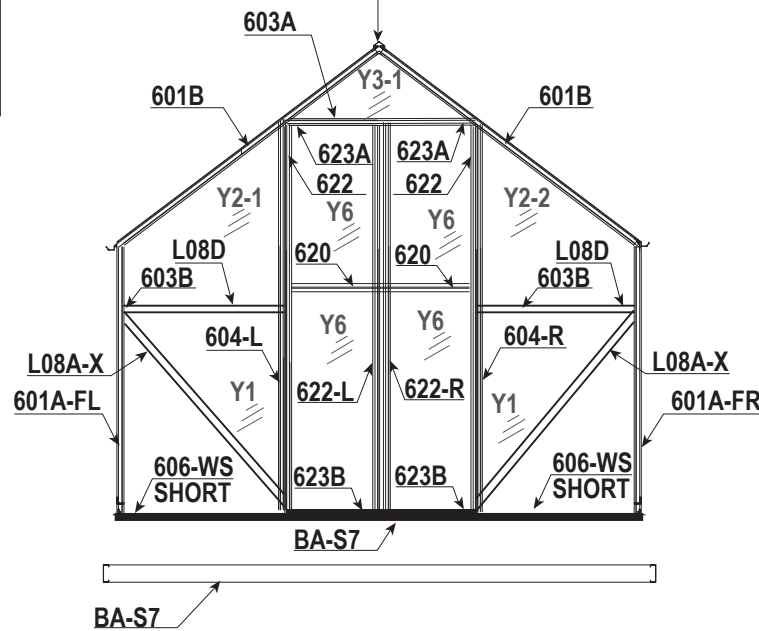
We recommend that you lay all of your boxes out as shown below for an organized assembly. Locate your greenhouse size and situate near your assembly site. We suggest you lay the parts out on a tarp so you do not lose items in the grass or dirt near your building site.

*See the reference diagrams on pages 7-9 for more information about how the parts will go together and what makes up each section for the assembly.



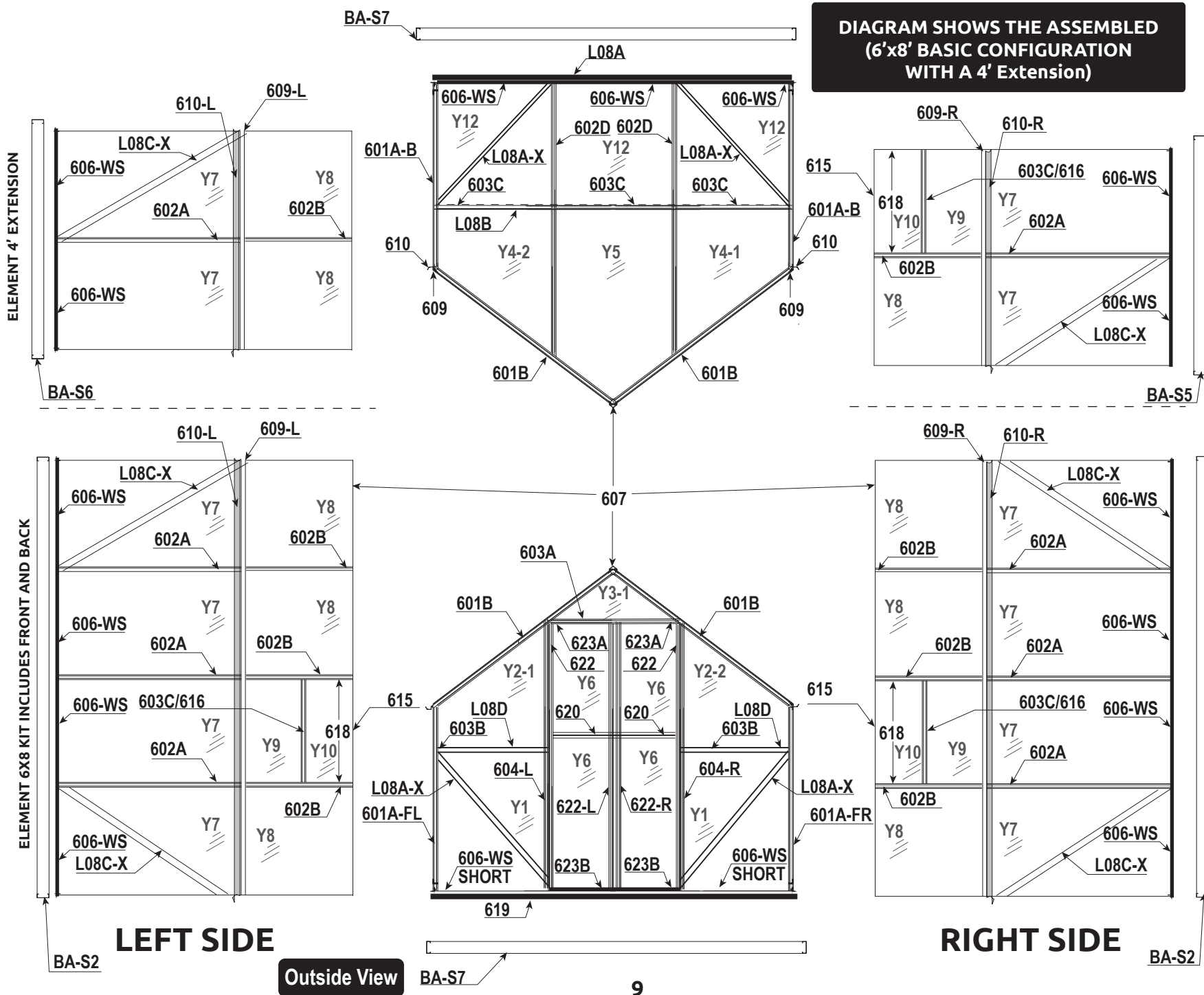
BA-S7

**DIAGRAM SHOWS THE ASSEMBLED
(6'x4' BASIC CONFIGURATION)
(GRA-ELE-64A & GRA-ELE-64P & GRA-BAS-64)
6x4 ELEMENT KIT INCLUDES, FRONT,
BACK, AND SIDE WALLS.
GROUND BASE KIT IS SOLD SEPARATELY.**

LEFT SIDE**RIGHT SIDE****LEFT SIDE****RIGHT SIDE****Outside View**

BA-S7





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.

See our website **GrandioGreenhouses.com** for Extreme Weather Anchoring Kits and Moisture Control Kits to aid in protecting your greenhouse in the event of harsh weather conditions prior to beginning assembly.

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.

You will need to choose an anchoring system prior to installation, see our website for options: www.GrandioGreenhouses.com

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

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

For Earth Installation: We recommend you use the Grandio Base Kit with the BA-A1 / L-BOLT anchoring system. With this method you will bury the L-Bolts into the ground and secure into place with quickrete.

BASE KIT ASSEMBLY INSTRUCTIONS

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

FOLLOW THE STEPS IN THIS SECTION AND USE PROVIDED HARDWARE TO SECURE YOUR DIRT MOUNT BASE KIT TO YOUR SURFACE.

IF YOU ARE INSTALLING INTO AN EARTH SURFACE USE THE GRANDIO BASE KIT WITH THE BA-A1 / L-BOLT ANCHORS. YOU MAY ALSO MOUNT THE DIRT MOUNT BASE KIT TO A WOODEN DECK OR CONCRETE SLAB IF YOU DESIRE THE EXTRA STRENGTH AND HEIGHT THE BASE KIT OFFERS. WHEN USING THE BASE KIT YOU MAY ALSO ADD ON THE FRAME TO BASE BRACKETS TO OFFER EXTRA SUPPORT IN MORE EXTREME ENVIRONMENTS.

PREPARE TO LAYOUT YOUR BASE KIT. SEE DIAGRAMS SHOWING HOW THE BASE KITS SHOULD BE PRE ASSEMBLED. DEPENDING ON YOUR SIZE ON THE FOLLOWING PAGES.



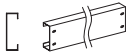
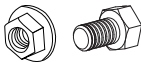
Make sure base is squared and level before setting anchor into concrete. Use a measuring tape to ensure all corners are the same. Use level on all four sides.

DIRT MOUNT BASE KIT PARTS LIST FOR 6x4, 6x8 and 6x12

****Locate the parts listed below to prepare and install your dirt base kit to your prepared surface**

(GRA-BAS-64) (GRA-BAS-68) BASE AND ACCESSORY PACKING LIST

(GRA-ELE-4X) BASE AND ACCESSORY PACKING LIST

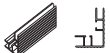
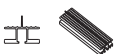
GRAPHIC	PART NAME	SIZE/LOCATION	6X4 QTY	6X8 QTY
	BA-S7	1880 mm / 74"	2	2
	BA-S8	(6x4) 1206 mm / 47 1/2"	2	0
	BA-S2	(6x8) 2394 mm / 94 1/4"	0	2
	BA-C3	138 mm / 5 7/16"	4	4
	BA-S03	M6*14	28	28
	ML01	NUT	28	28
	W05 CLIP	FRAME TO BASE BRACKET	9	9
	ML01 / S03	M6*10	28	34
	FMZ	FLAT MOUNT BASE BRACKET	10	15

THE FMZ AND M03/S03 COMBOS WILL BE IN GRA-ELE-64A OR GRA-ELE-68A BOX

GRAPHIC	PART NAME	SIZE/LOCATION	4X QTY
	BA-S5	1187 mm / 46 3/4"	1
	BA-S6	1187 mm / 46 3/4"	1
	BA-C4	214 mm / 8 7/16"	2
	BA-S10	1/2 x 3/4	2
	BA-S03	M6*14	16
	ML01	NUT	16
	ML01/S03	M6*10	5
	FMZ	FLAT MOUNT BASE BRACKET	4

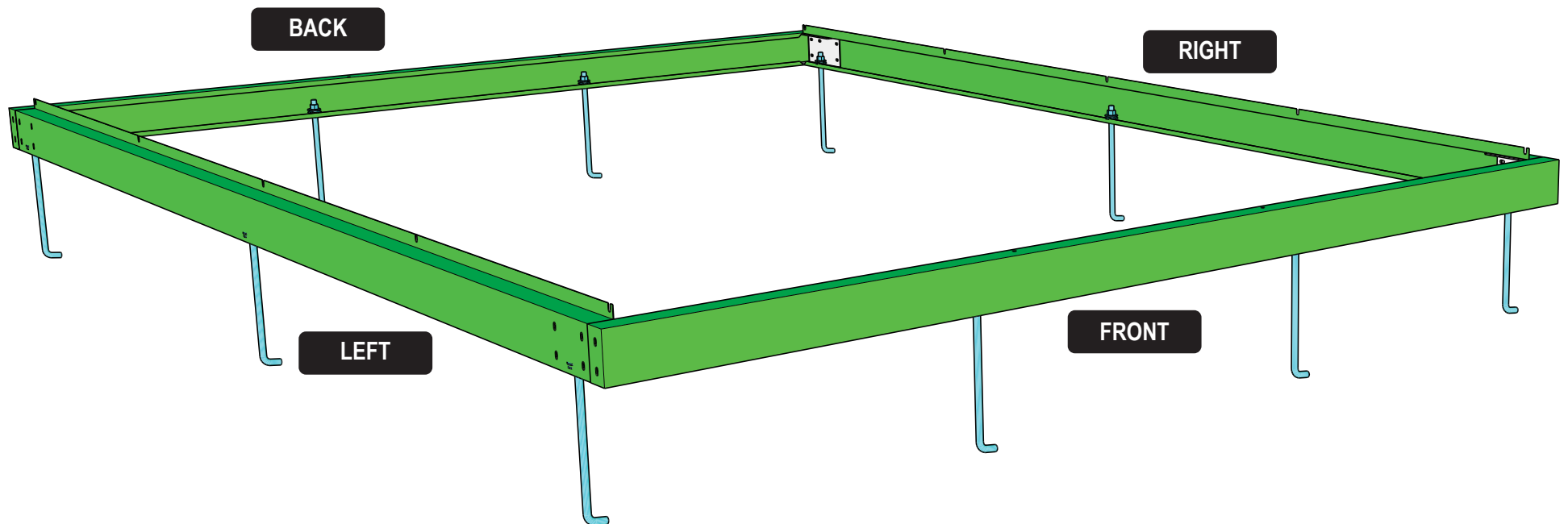
THE FMZ AND M03/S03 COMBOS WILL BE IN GRA-ELE-4X BOX

DISCARD THESE PARTS
FOR DIRT MOUNT
BASE KITS

GRAPHIC	PART NAME	SIZE/LOCATION	6x4	6x8	4' EXTENSION
	601A-SPACERS	100 mm/ 4" FLAT MOUNT SPACERS	4	4	0
	602A-SPACERS	100 mm/ 4" FLAT MOUNT SPACERS	2	6	4

6x8 BASE KIT ASSEMBLED WITH ANCHORS (GRA-BAS-68)

IMAGE SHOWS A 6' x 8' DIRT MOUNT BASE KIT
WITH L-BOLT ANCHORS FOR EARTH INSTALLATION

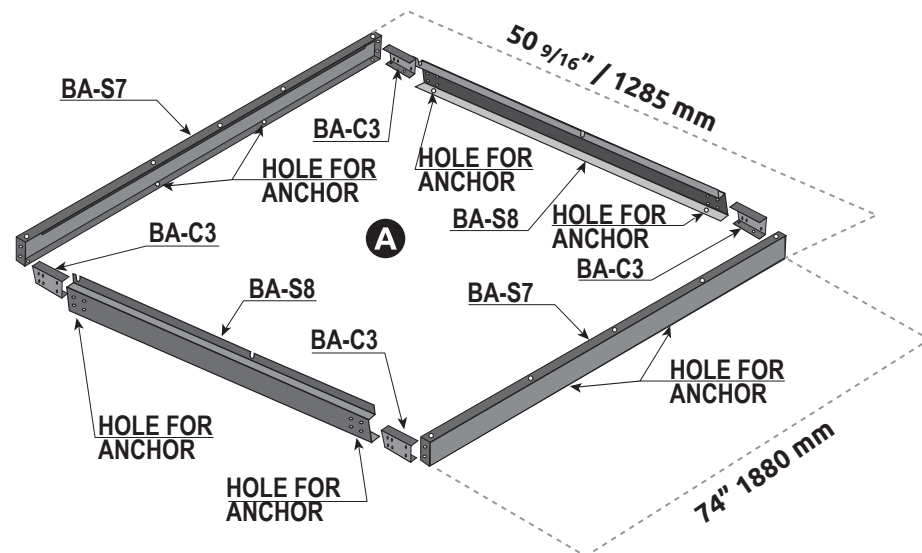


6x4 BASE KIT ASSEMBLY INSTRUCTIONS

(GRA-BAS-64)

1.1 Layout all base kit pieces to prepare for assembly of a 6x4. Note that one **BA-S7** will be at the front and one will be at the back and for the 6x4 there will be **BA-S8's** on the sides. See diagram **A**.

DIAGRAM SHOWS A 6' x 4' DIRT MOUNT BASE KIT
*THERE ARE 8 HOLES IN THE BOTTOM OF THE BASE FOR ANCHORS

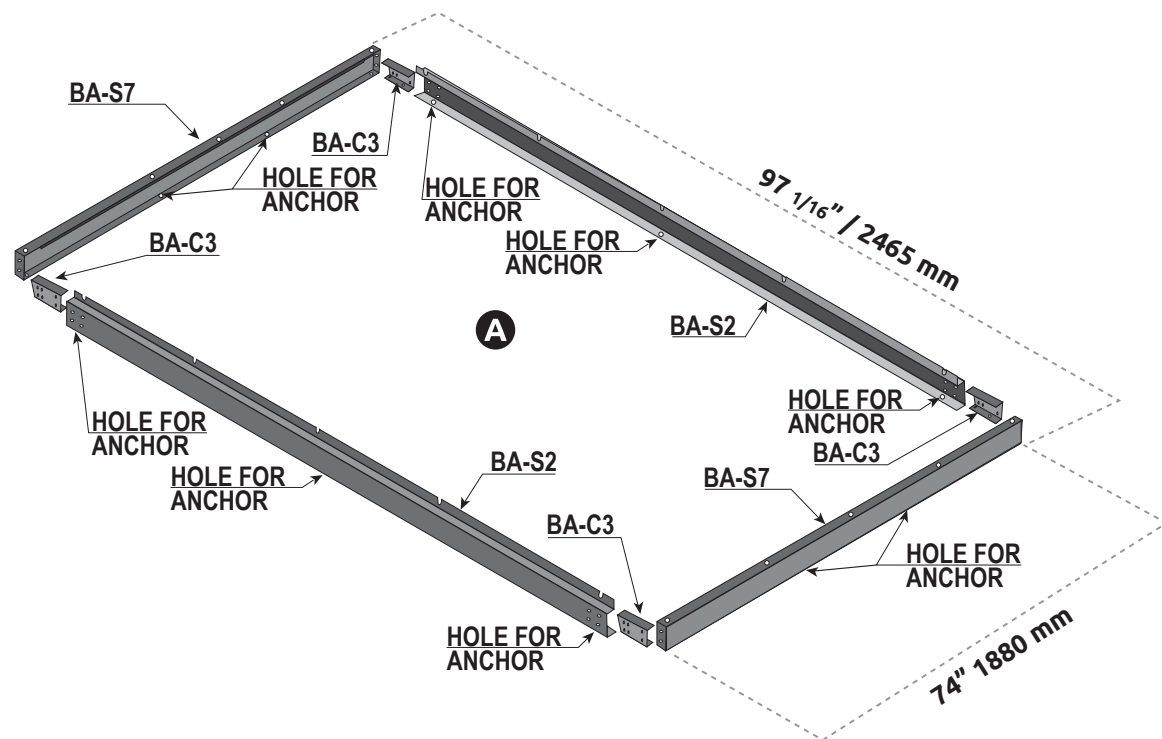


6x8 BASE KIT ASSEMBLY INSTRUCTIONS

(GRA-BAS-68)

1.2 Layout all base kit pieces to prepare for assembly of a 6x8. Note that one **BA-S7** will be at the front and one **BA-S7** will be at the back. For the 6x8 Element kit you will have **BA-S2's** on both sides. See **A**.

DIAGRAM SHOWS A 6' x 8' DIRT MOUNT BASE KIT
*THERE ARE 10 HOLES IN THE BOTTOM OF THE BASE FOR ANCHORS

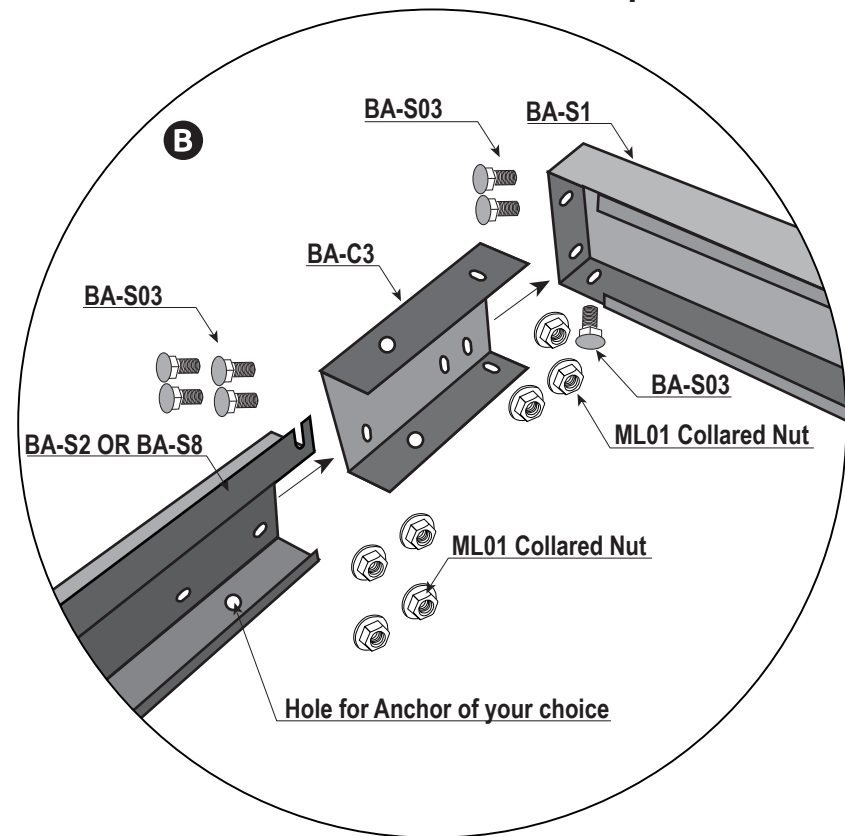
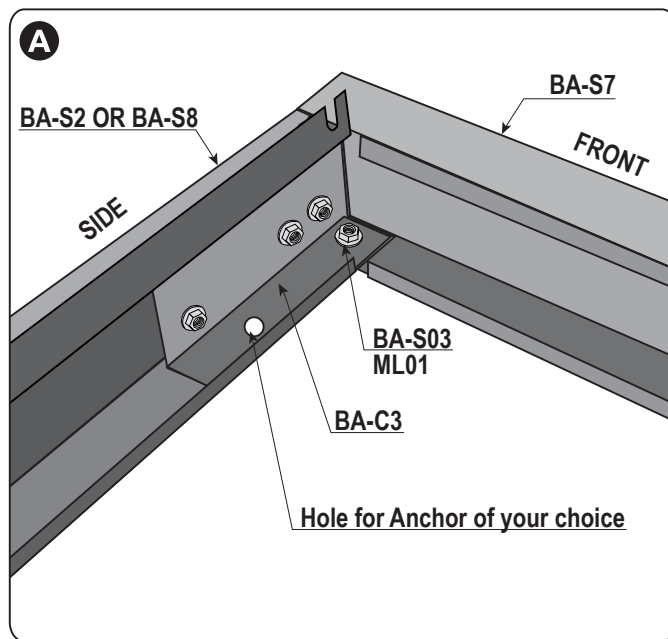


6x4 & 6x8 BASE KIT ASSEMBLY INSTRUCTIONS

1.3 Slide the **BA-C3** into the **BA-S7**, slide the **BA-S2** or **BA-S8** into the **BA-C3**, align the holes and push together to an even and tight position and use the **BA-S03** bolt and **ML01** 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-S7** will be at front and the back, while the **BA-S2's** or **BA-S8** will be the sides of your greenhouse base.

1.4 Locate the anchoring devices for your installation needs and follow the directions for that anchoring system. If you have not purchased an anchoring system please go to www.GrandioGreenhouses.com for kit options.



6x12 BASE KIT ASSEMBLY INSTRUCTIONS

(GRA-BAS-68) AND (GRA-ELE-4X)

1.5 Layout all base kit pieces to prepare for assembly. Note that one **BA-S7** will be at the front and one **BA-S7** will be at the back and the **BA-S2's** will be on the sides attaching to the front **BA-S1**. The **BA-S5** and **BA-S6** will attach to the back **BA-S7**, See diagram **A**.

1.6 Attach the **BA-S2** to the **BA-S5** with the **BA-C4** using the **BA-S03** and **ML01**. See **B**. Repeat for other side connecting the **BA-S6** and the **BA-S2**. Go to page 18 for the next step.

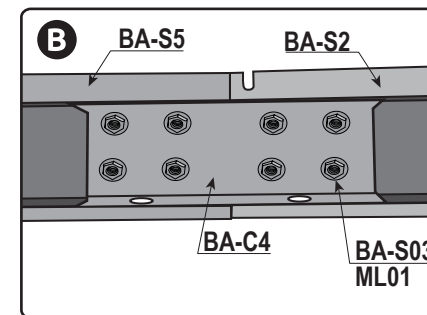
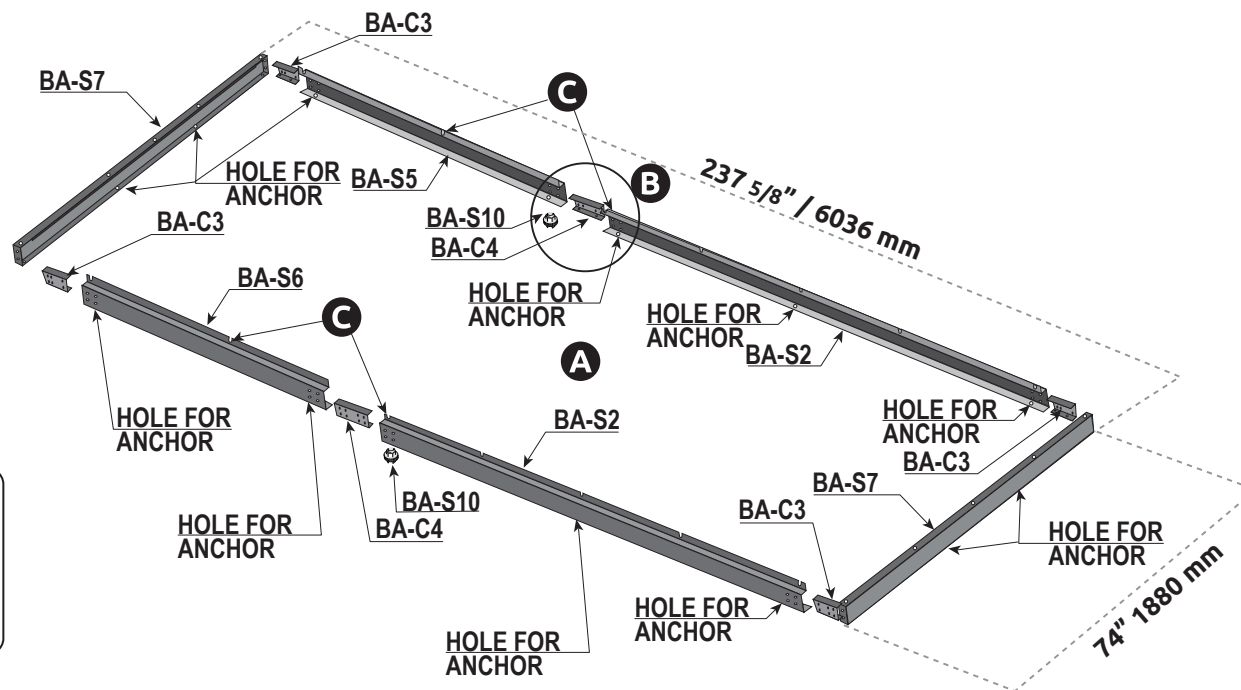


DIAGRAM SHOWS A 6' x 8' DIRT MOUNT BASE KIT WITH A 4' EXTENSION KIT
*THERE ARE 12 HOLES IN THE BOTTOM OF THE BASE FOR ANCHORS



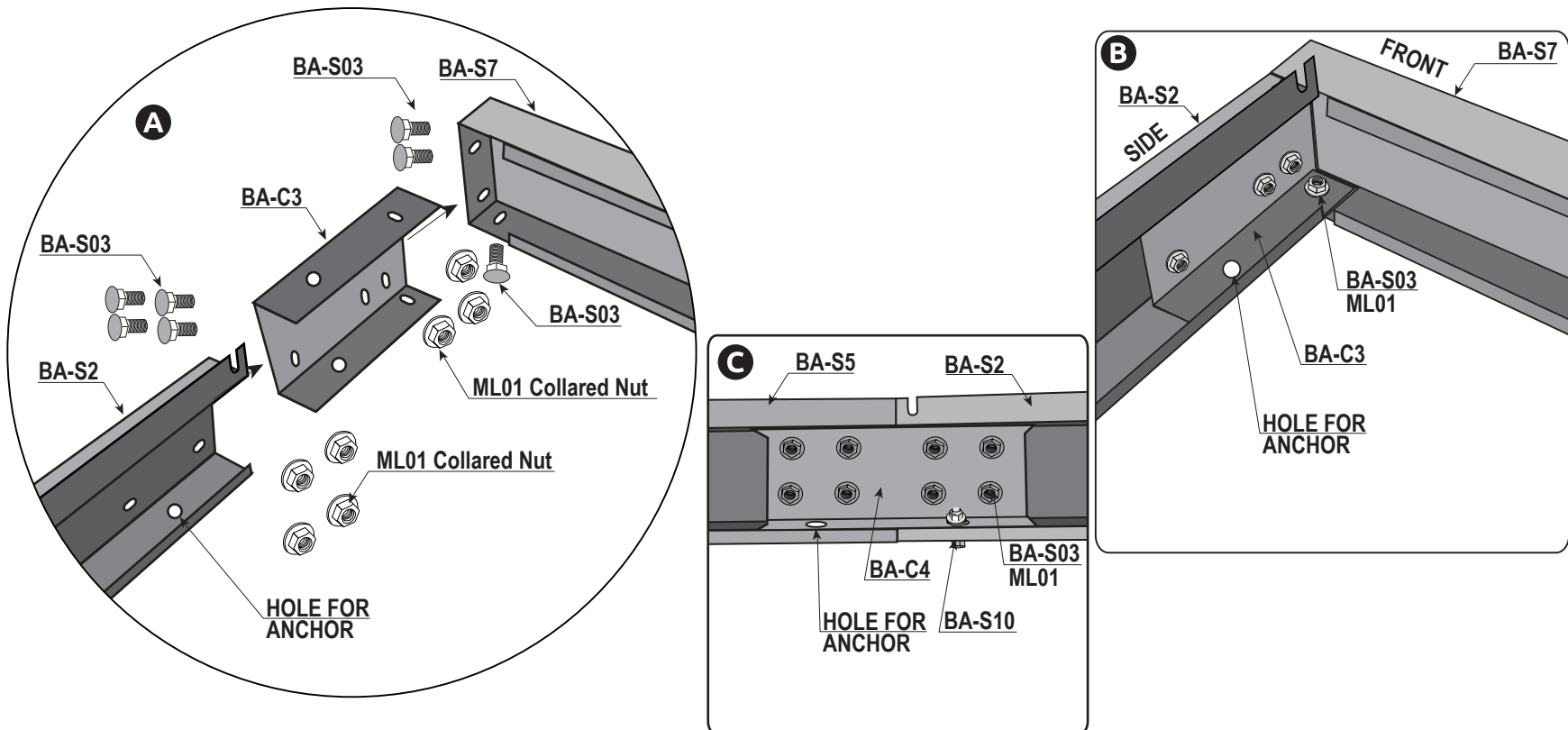
Note that the holes for screws on the base kit sides have about a 2 foot gap between each, so be sure base kit extensions are assembled properly. See **C.**

BASE KIT ASSEMBLY INSTRUCTIONS

1.7 Slide the **BA-C3** into the **BA-S7**, 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 **ML01** Collard Nut combo, tighten the collard nut on the inside of the base kit using the 10mm wrench. Repeat this process on all corners. See **A** and **B**.

Note: **BA-S7** will be the front and back, while the **BA-S2**'s will be the sides of your greenhouse base, if using a 4' extension you will attach the **BA-S5** and **BA-S6** accordingly.

1.8 For Ground Installation only Insert the **BA-S03** and the **BA-A1** into the holes at the bottom side of the corners of the base, the nut will be tightened on the inside of base, see **A** and **C**. **Locate the anchoring devices for your installation needs and follow the directions for that anchoring system.** If you have not purchased an anchoring system please go to www.GrandioGreenhouses.com for anchoring kit options.



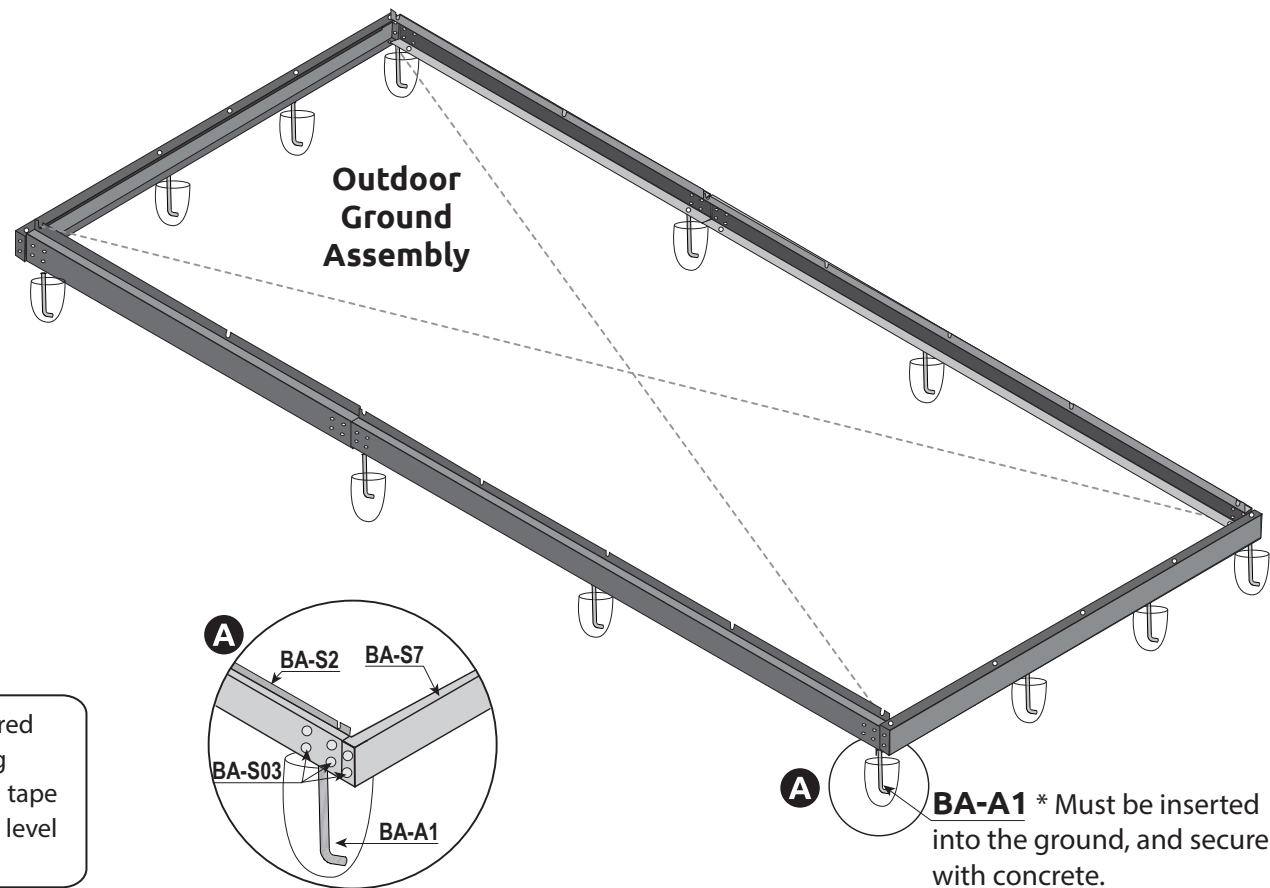
BASE KIT GROUND INSTALLATION

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

1.9 If using an L-Bolt / BA-A1 anchoring kit the BA-A1 must be buried in ground. See A.

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

We recommend you use: Quikrete fast setting concrete to anchor base. Follow the directions on the package. See www.GrandioGreenhouses.com for other anchoring kit options.



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.

BASE KIT DECK INSTALLATION

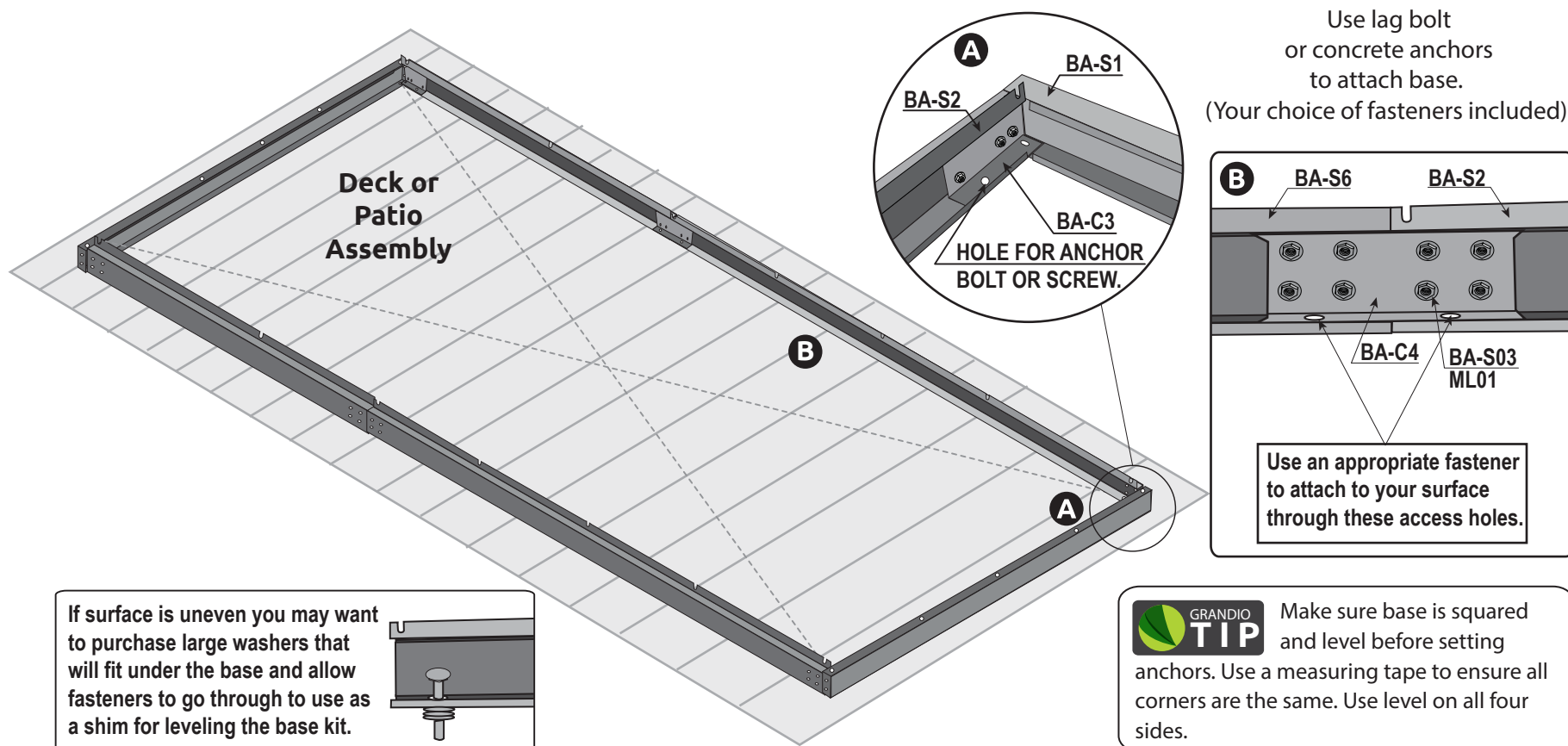
****BASE MUST BE LEVEL & SQUARE,
FOUNDATION MUST BE PROPERLY ANCHORED PRIOR TO GREENHOUSE ASSEMBLY**

1.10 Holes are present in base kit for anchoring bolts see **A and **B**.**

You determine and acquire proper fastener prior to installation for your surface.

Discard the BA-S10 for deck or concrete slab installation.

See www.GrandioGreenhouses.com for other anchoring kit options.



FRONT FRAME ASSEMBLY

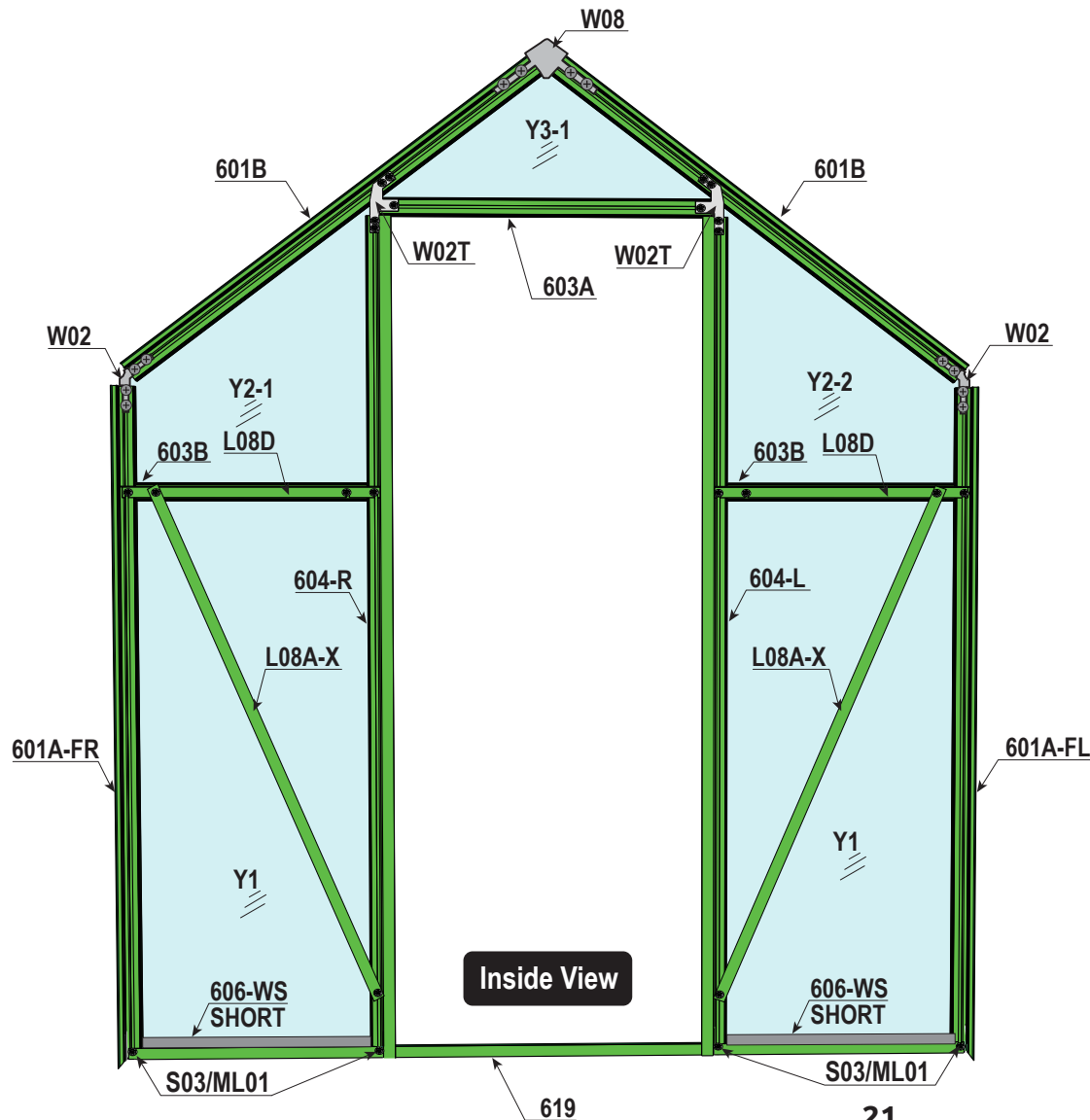
ALWAYS ASSEMBLE FRONT HORIZONTAL

This picture shows the inside view of the front section fully assembled.

All parts for this section will be found in boxes:

GRA-ELE-64A and GRA-ELE-64P or GRA-ELE-68A and GRA-ELE-68P.

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

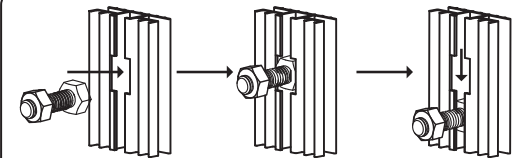


Lay flat on ground to assemble the front frame of your greenhouse. If possible try to find a shady area protected from the wind. Panels can burn grass and plants if in direct light.



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.



FRONT FRAME ASSEMBLY CONTINUED

ALWAYS ASSEMBLE FRONT HORIZONTAL

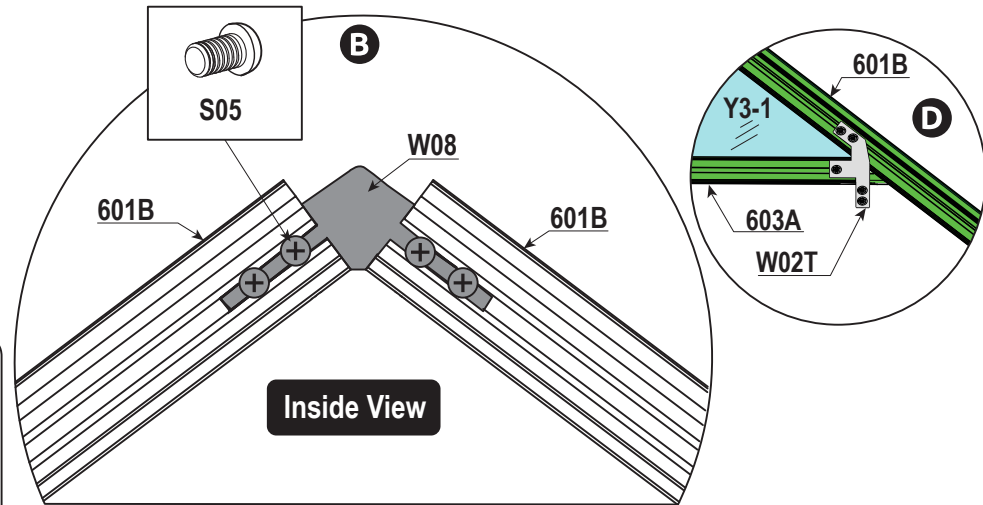
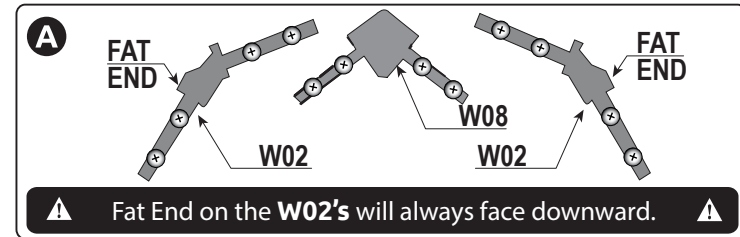
* If using the moisture control kit with anti dust tape you will apply it now following the kits directions.

2.1 Pre thread **W08** and **W02** fasteners with **S05** for ease of installation, only turn a few times. See **A**.

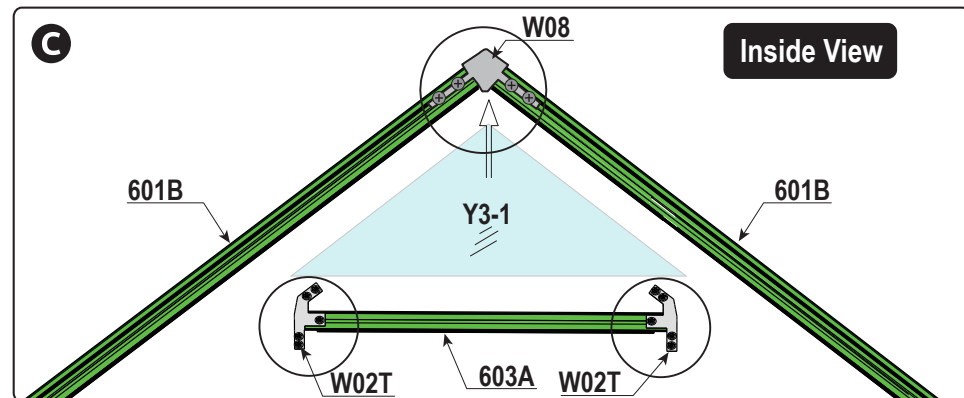
2.2 Use **W08** bracket to attach the (2) **601B**'s secure parts with the **S05** fasteners provided as shown in **B**. Screw heads will remain outside channel.

2.3 Insert **Y3-1** window panel as shown in **C**.

2.4 Attach **603A** with **W02T** and **S04/ML01** fasteners as shown in **D**.

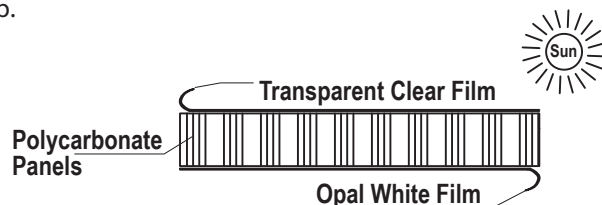


⚠ IMPORTANT: Use only S05 Screws, other screws may damage frame. ⚠



⚠ IMPORTANT: POLYCARBONATE PANELS ⚠

The UV-Protected side is covered with clear 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 clear 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.

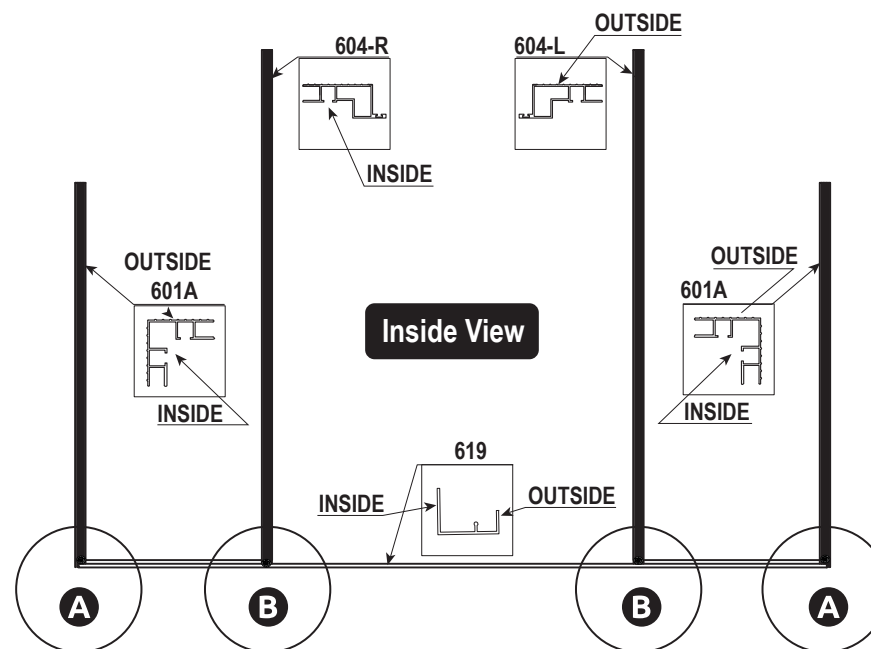


FRONT FRAME ASSEMBLY CONTINUED

ALWAYS ASSEMBLE FRONT HORIZONTAL

2.5 Use **S03/ML01** combos to attach the (2) **601A's** to the **619**. See **A**.

2.6 View diagrams and attach the (2) **604's** to the **619** using the **S03/ML01**. Note the orientation of the **604's**. See diagram **B**.

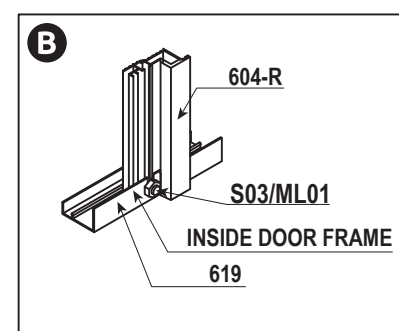
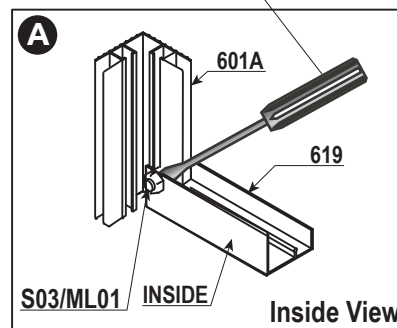
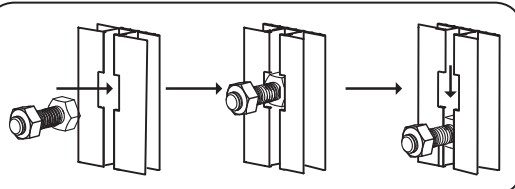


TIP: If necessary you may use a screwdriver to wedge behind the bolt head. This prevents bolt from falling into the track.



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.



FRONT FRAME ASSEMBLY CONTINUED

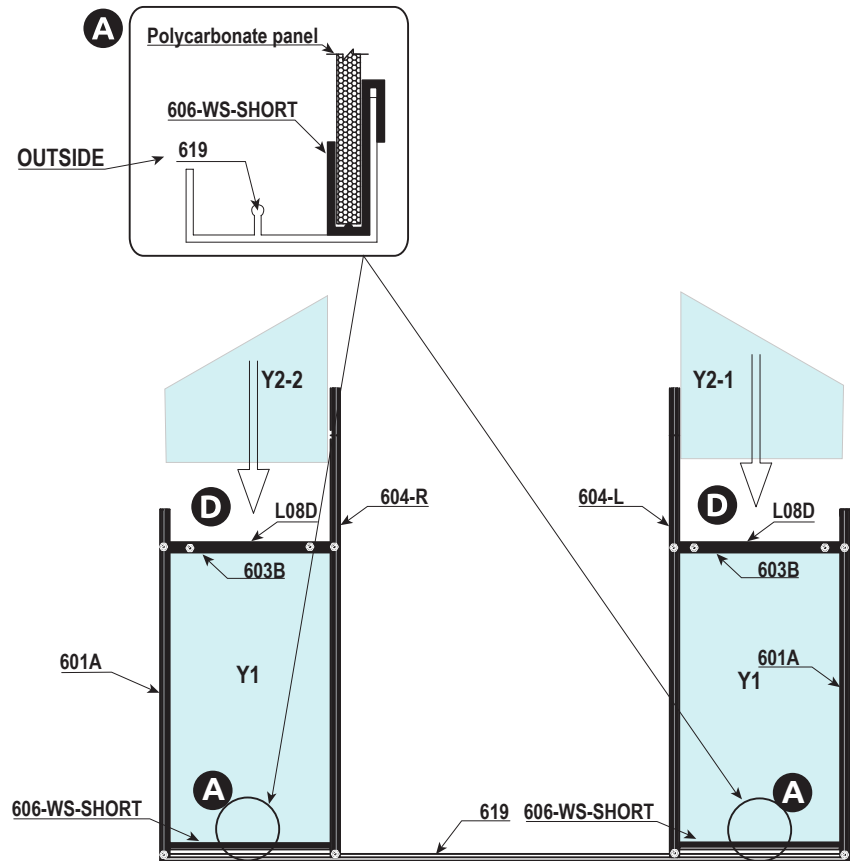
ALWAYS ASSEMBLE FRONT HORIZONTAL

2.7 Attach **606-WS-SHORT** to **619**, this will hold the polycarbonate panels into 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**.

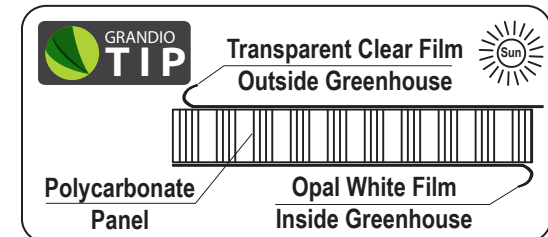
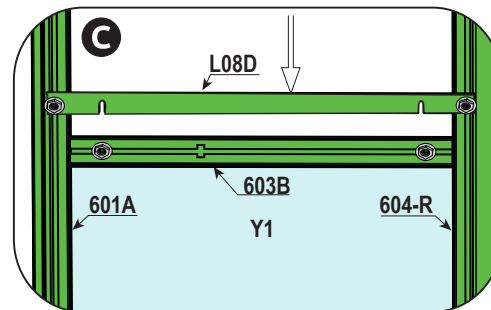
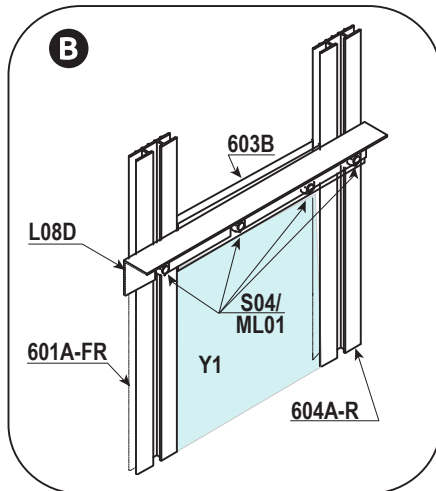
2.8 Insert **Y1** polycarbonate panels into place, make sure **Y1**'s slide completely into **606-WS-SHORT** as shown in **A**.

2.9 Set (2) **603B**'s atop the **Y1** panels, then attach the (2) **L08D**'s to the (2) **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 **B**, **C** and **D**.

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



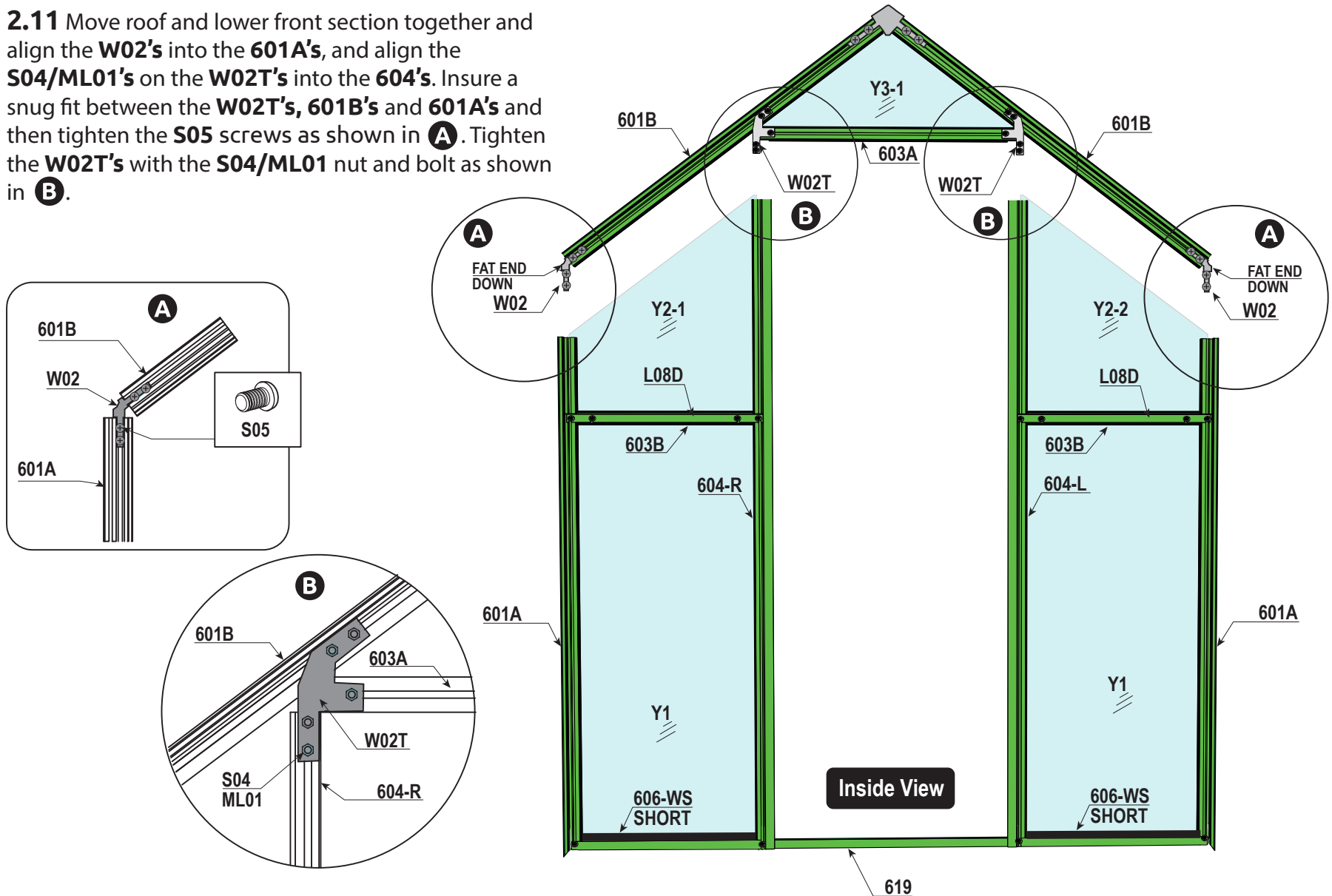
Inside View



FRONT FRAME ASSEMBLY CONTINUED

ALWAYS ASSEMBLE FRONT HORIZONTAL

2.11 Move roof and lower front section together and align the **W02'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)**.



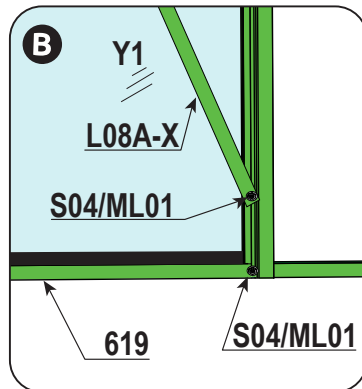
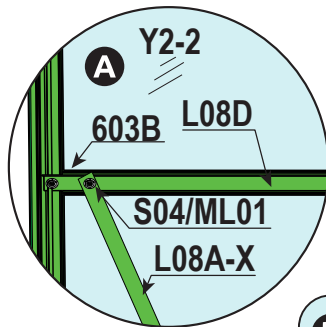
FRONT FRAME ASSEMBLY CONTINUED

ALWAYS ASSEMBLE FRONT HORIZONTAL

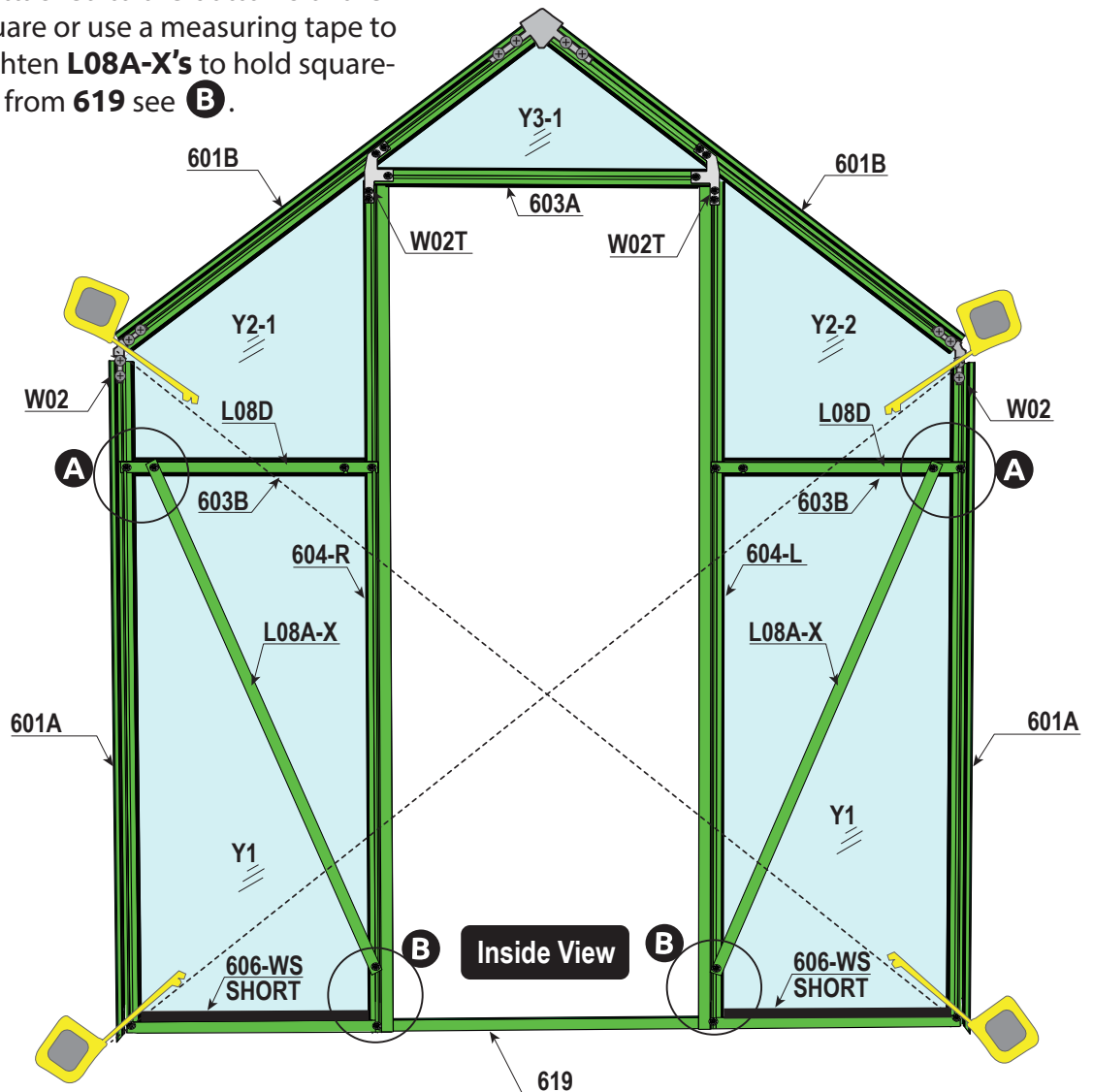
2.12 Attach the (2) **L08A-X** to **L08D/603B's** and **604's**.

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

2.13 To square front section loosen **S04/ML01** attached to the bottoms 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 **L08A-X's** to hold square-ness, **L08A-X** should be attached a few inches up from **619** see **B**.



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.



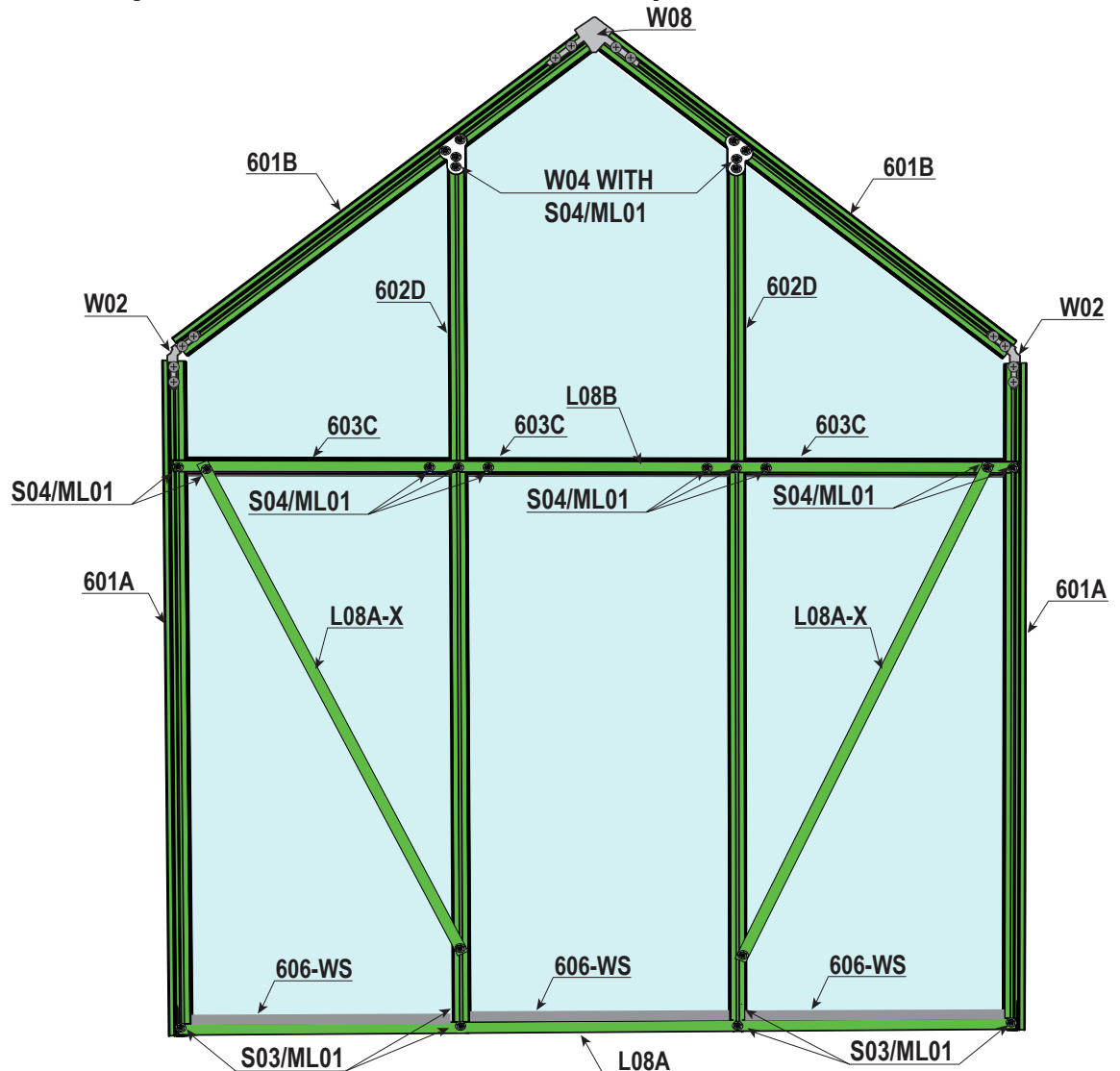
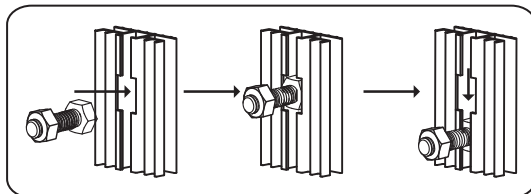
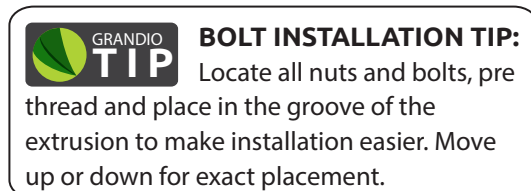
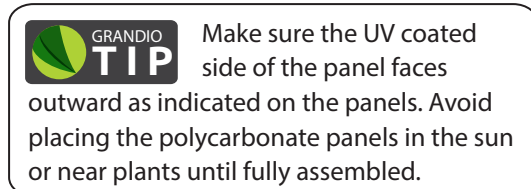
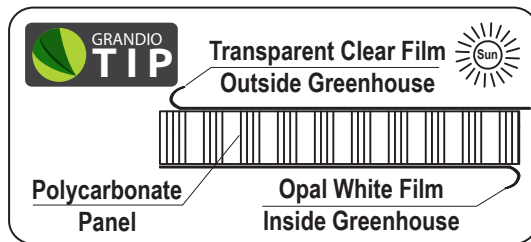
BACK ASSEMBLY INSTRUCTIONS

ALWAYS ASSEMBLE BACK HORIZONTAL

This image shows the inside view of the back fully assembled.

All parts for back assembly will be found in box GRA-ELE-64A and GRA-ELE-64P or GRA-ELE-68A and GRA-ELE-68P.

We recommend that you assemble the back wall on a tarp.



BACK CONTINUED

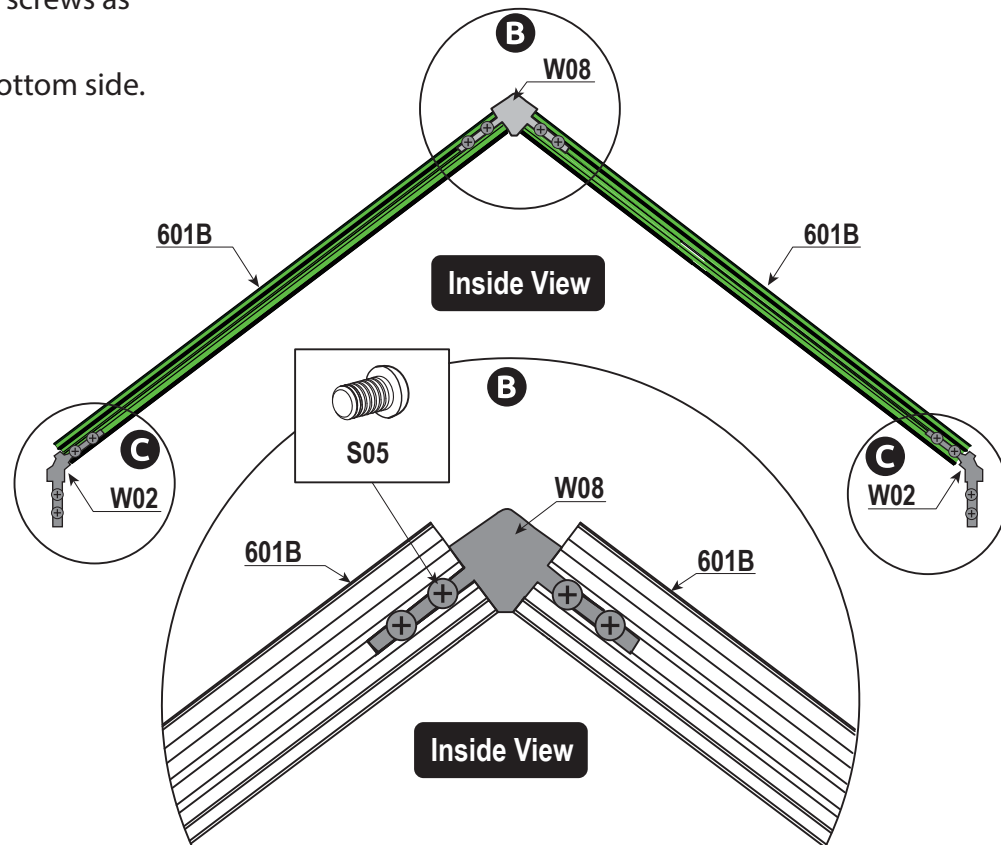
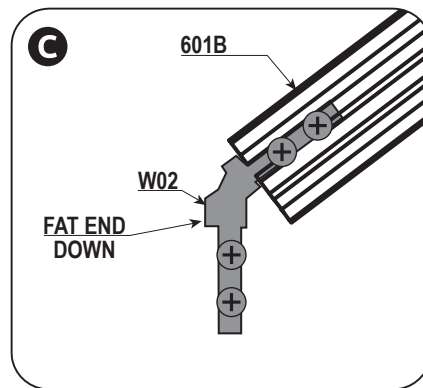
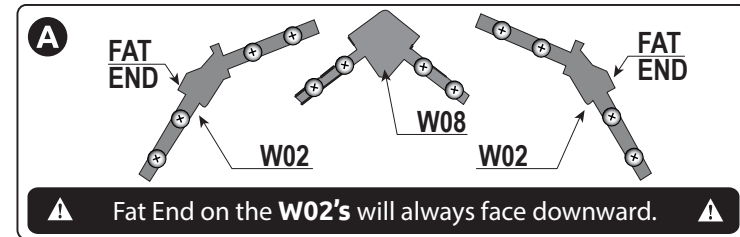
ALWAYS ASSEMBLE BACK HORIZONTAL

3.1 Prethread all **S05** Screws into the **W08** and **W02's**, only turn a few times, see **A**.

3.2 Install **W08** into (2) **601B's** then tighten **S05** screws when extrusions are completely tight. See **B**.

3.3 Install (2) **W02's** into (2) **601B's** then tighten **S05** screws as shown in diagram **C**.

Note: the fat end of the **W02's** will always be on the bottom side.



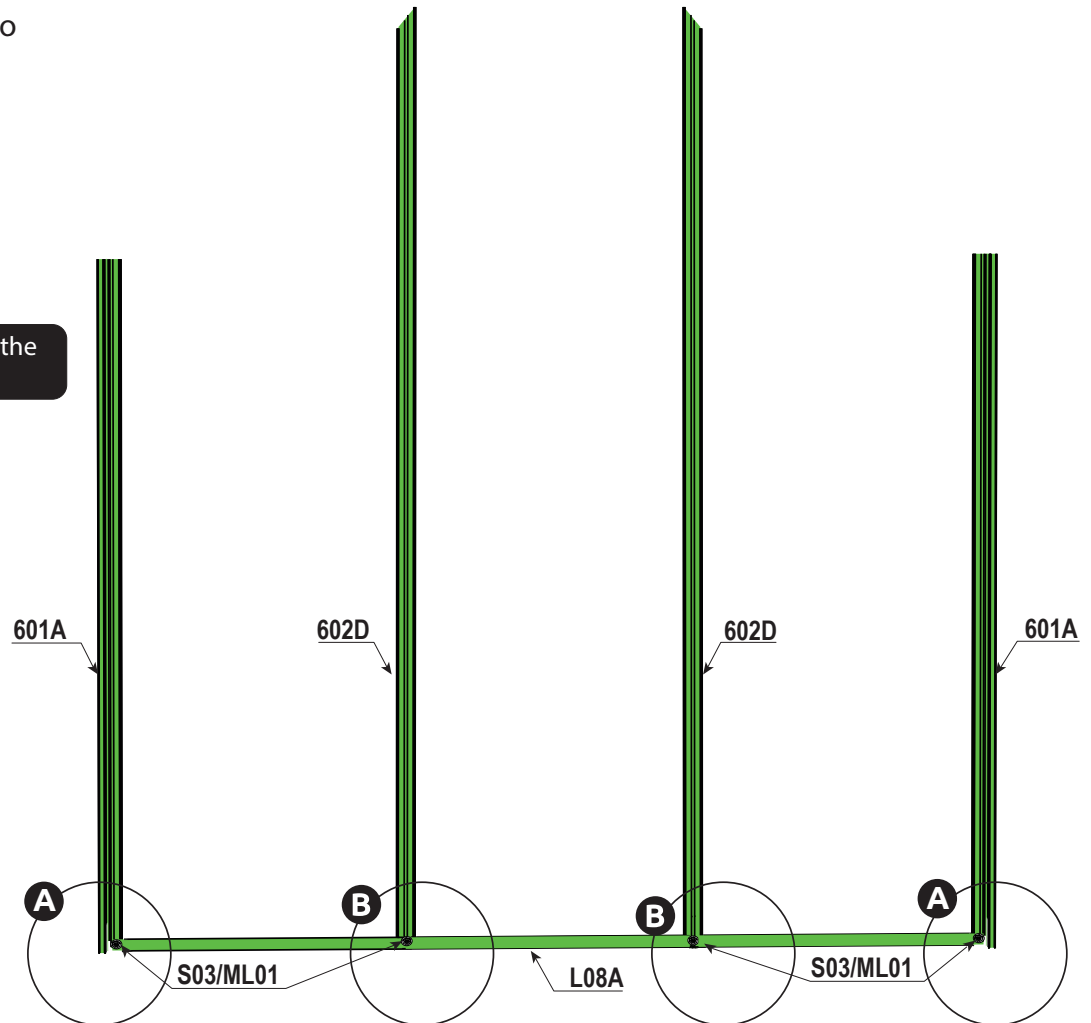
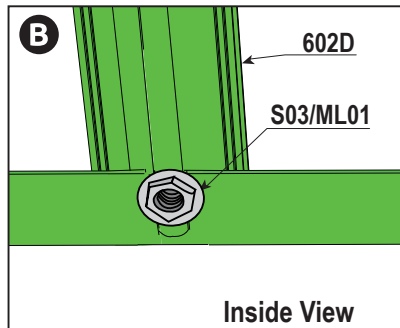
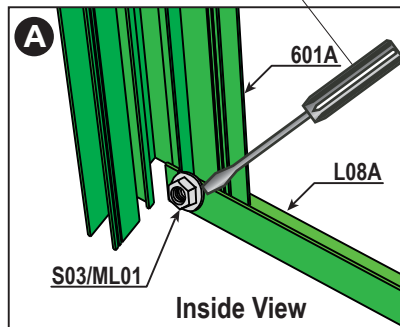
BACK FRAME ASSEMBLY CONTINUED

ALWAYS ASSEMBLE FRONT HORIZONTAL

3.4 Use **S03/ML01** combos to attach the (2) **601A's** to the **L08A**. See **A**.

3.5 View diagrams and attach the (2) **602D's** to the **L08A** using the **S03/ML01**. See diagram **B**.

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



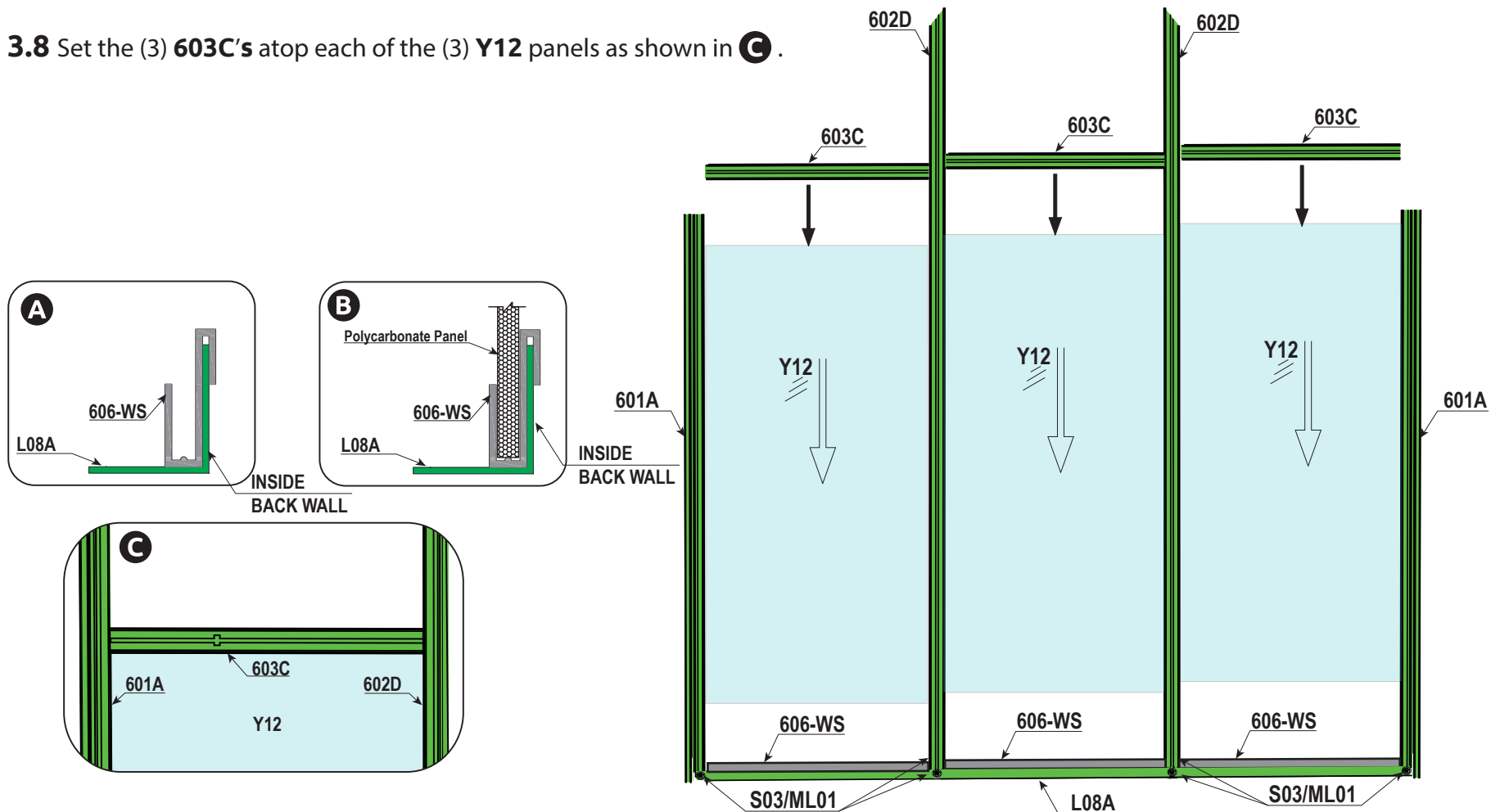
BACK FRAME ASSEMBLY CONTINUED

ALWAYS ASSEMBLE FRONT HORIZONTAL

3.6 Attach the (3) **606-WS's** to the **L08A** as shown in **A**.

3.7 Insert the **Y12** polycarbonate panels into the grooves of **601A** and **602D's**. Make sure **Y12** panels are inserted into **606-WS** as shown in **B**. You may need to use a screwdriver to gently open the **606-WS** to fit the polycarbonate panels into the groove of **606-WS**.

3.8 Set the (3) **603C's** atop each of the (3) **Y12** panels as shown in **C**.

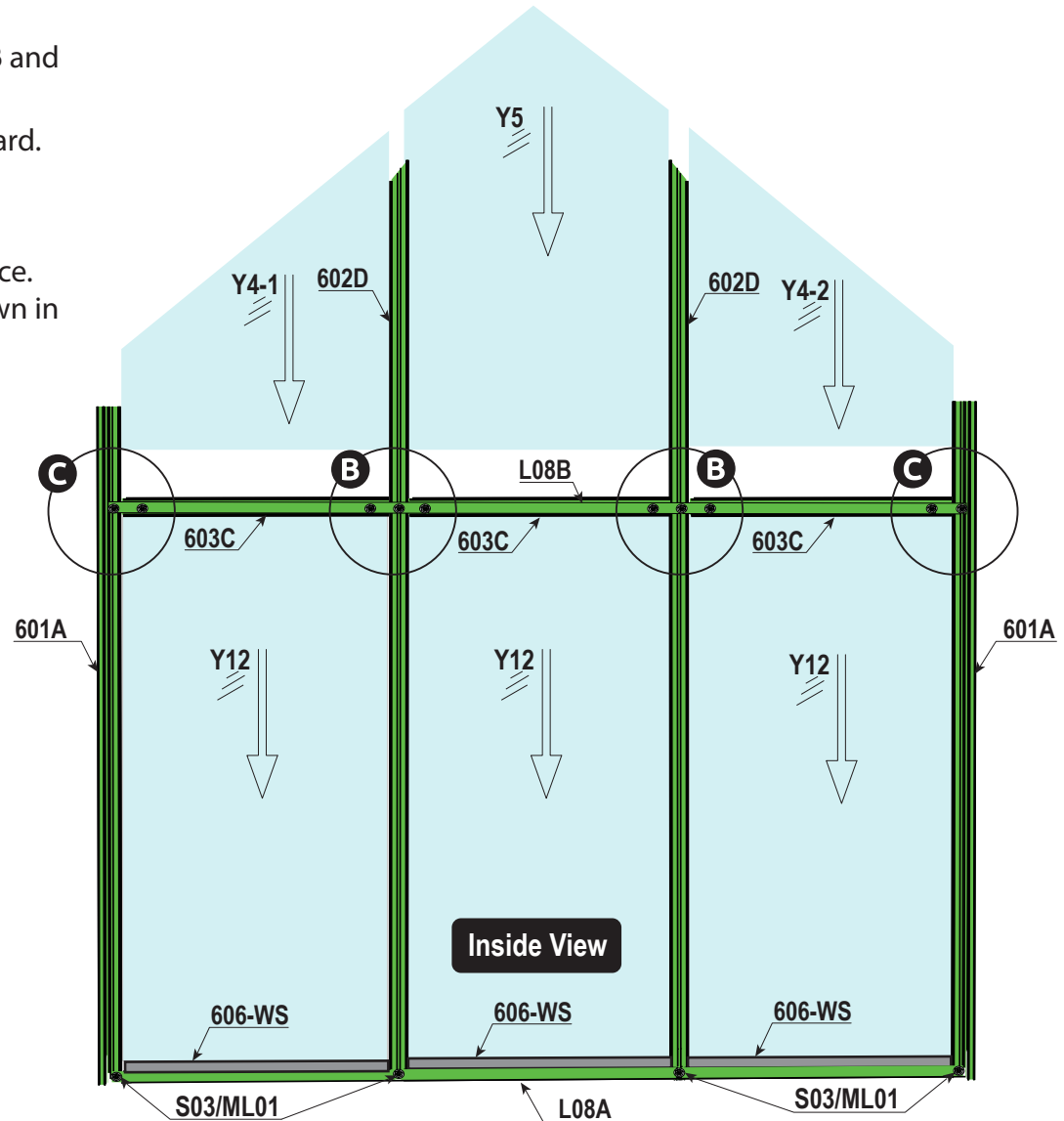
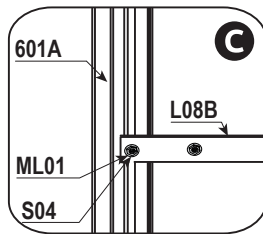
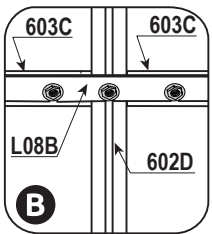
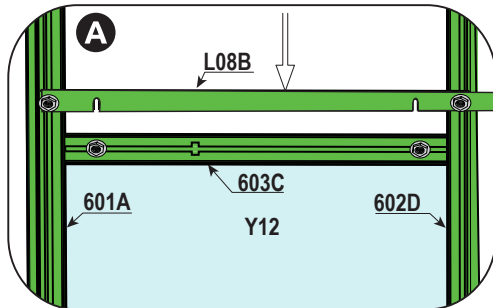


BACK FRAME ASSEMBLY CONTINUED

ALWAYS ASSEMBLE FRONT HORIZONTAL

3.9 Locate the **L08B** and align the pre threaded **S04-ML01** fasteners in each **603C's** to the **L08B** and to each of the **601A's** and **602D's**. When aligned tighten the middle first and work your way outward. See diagrams **A**, **B**, **C**.

3.10 Insert the **Y5** polycarbonate panel into place. Then insert the **Y4-1** and **Y4-2** into place as shown in the diagram.



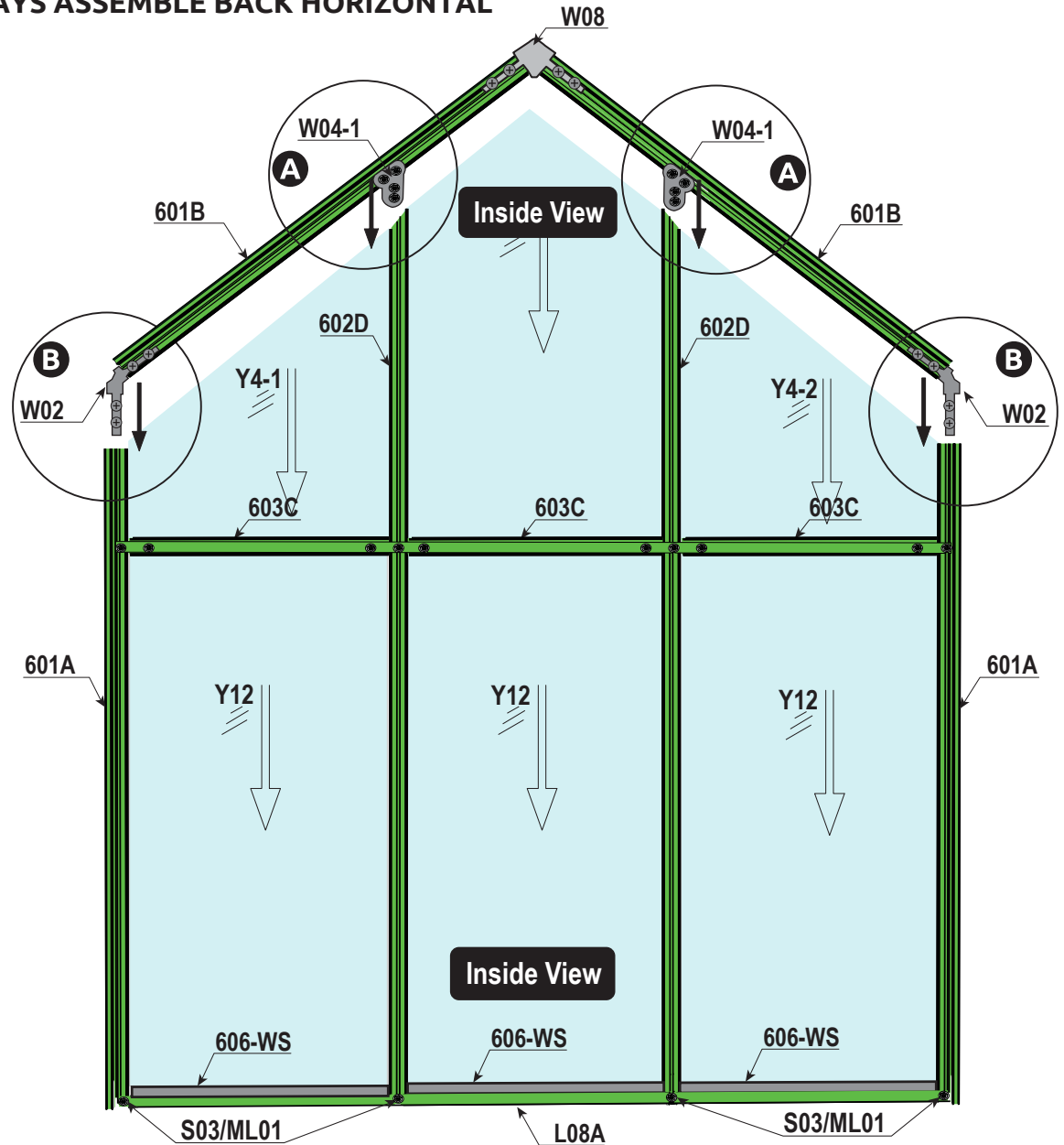
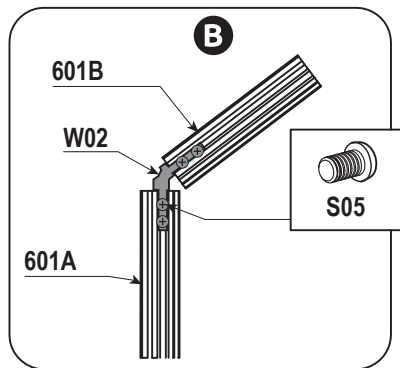
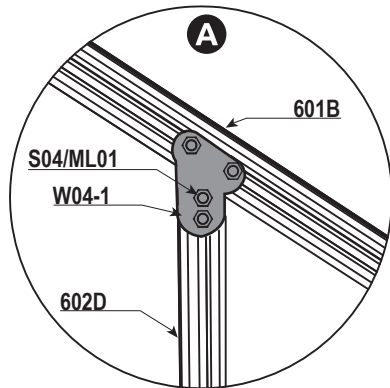
BACK CONTINUED

ALWAYS ASSEMBLE BACK HORIZONTAL

3.11

A. Attach the **W04-1** to the **602D**'s with **S04/ML01** fasteners as shown in **A**.

B. Attach (2) **W02**'s to (2) **601A**'s with **S05** as shown in **B**.

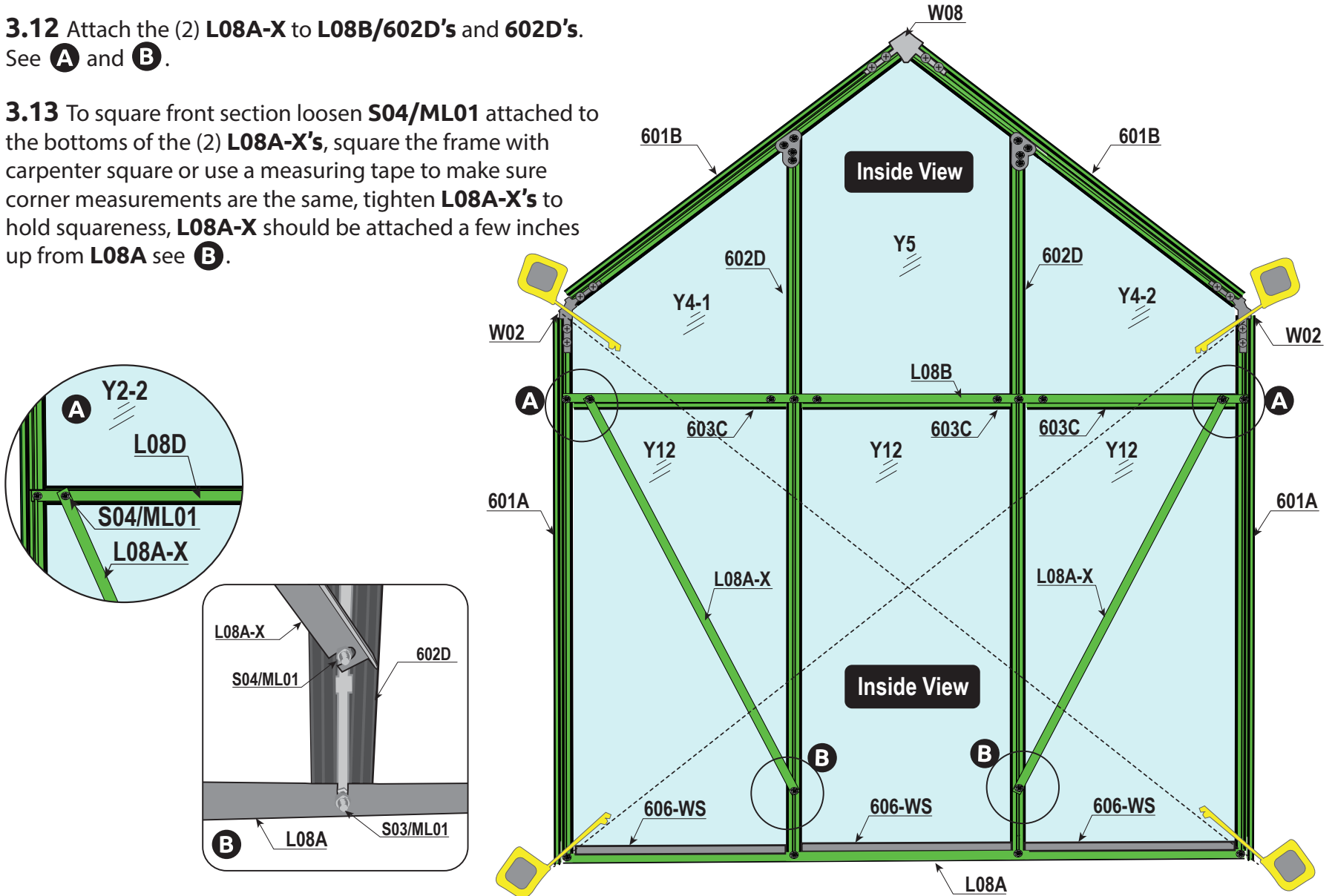


BACK CONTINUED

ALWAYS ASSEMBLE BACK HORIZONTAL

3.12 Attach the (2) **L08A-X** to **L08B/602D's** and **602D's**.
See **A** and **B**.

3.13 To square front section loosen **S04/ML01** attached to the bottoms 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 **L08A-X's** to hold squareness, **L08A-X** should be attached a few inches up from **L08A** see **(B)**.

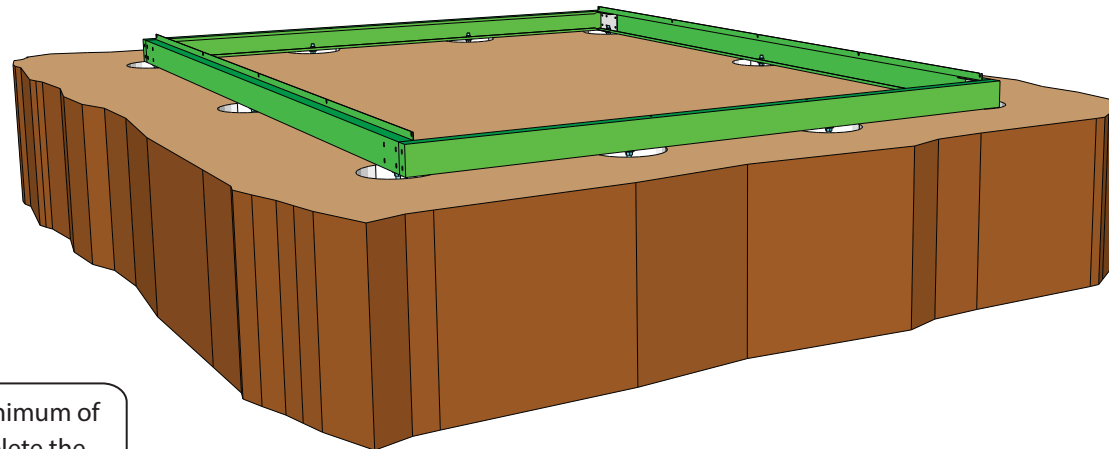


MIDDLE ASSEMBLY INSTRUCTIONS

Warning: You will need at least (2) people to complete this section of assembly. 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 back wall and sides of the base kit as shown in step 4.3. Failure to hold front or back wall vertical will cause them to fall and may damage the base kit, front framing etc. Damage caused by improper installation is not warrantable.

Do not attempt assembly on a windy day. You must complete assembly of entire greenhouse in the same day that you begin this section.

Confirm that your Base Kit is anchored properly to your surface according to your anchor kit instructions.



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.

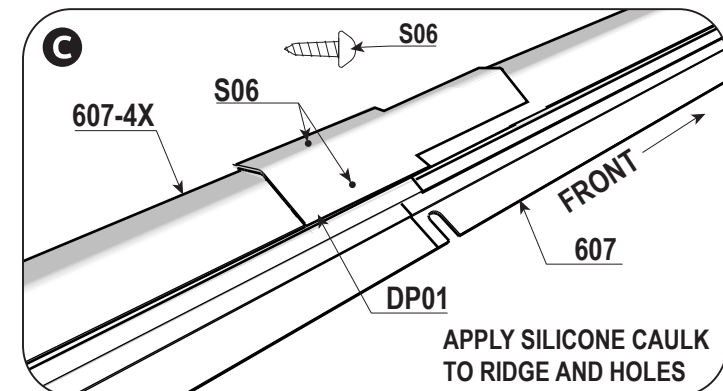
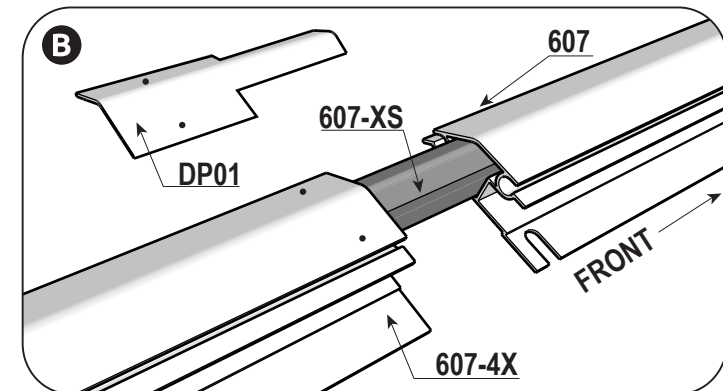
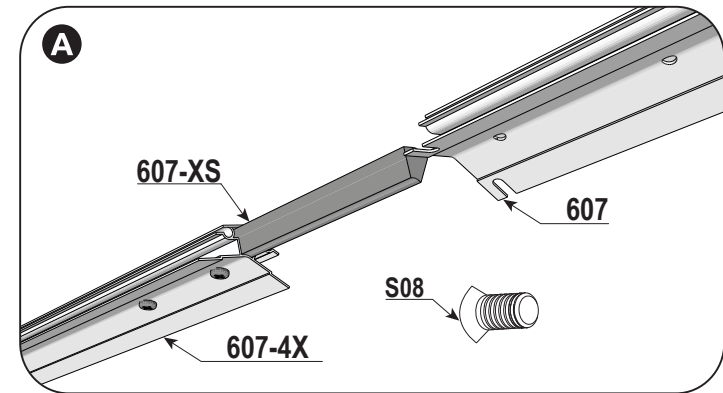
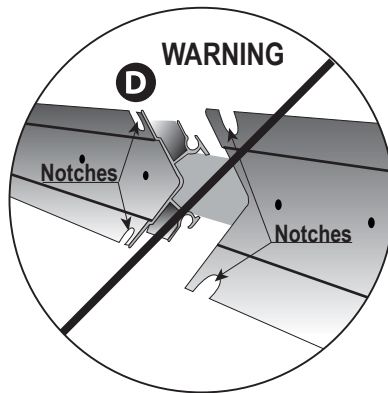
MIDDLE ASSEMBLY CONTINUED

THIS PAGE SHOWS 6X12 EXTENSION KIT ASSEMBLY ONLY, SKIP AHEAD TO PAGE 37 FOR 6X4 OR 6X8 SIZES.

4.1 Attach the **607** to **607-4X** extension with the **607-XS** and the (4) **S08** screws provided. See **A**, **B**. The **S08** screws are to be installed on the inside as shown in diagram **A**. Wait to tighten the screws all at one time when both sections are aligned correctly, apply even pressure while tightening.

4.2 Apply a bead of silicone to the seam where the **607's** meet and to the holes where the **S06** screws will attach the **DP01** to the **607** ridge. See **C**. Immediately align the **DP01** apply a small amount of silicone to the holes on the exterior of **DP01** then insert the **S06** screws.

NOTE ORIENTATION OF THE NOTCHES, THEY SHOULD BE SPACED ABOUT 2 FEET APART. SEE D.



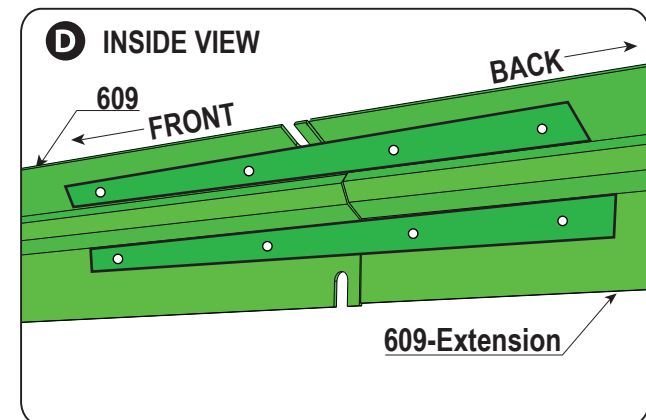
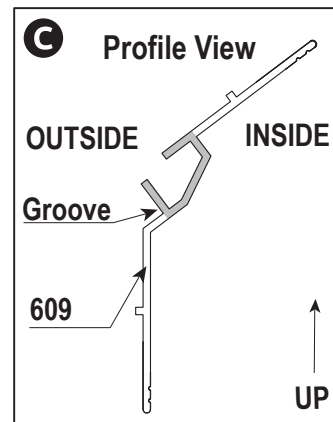
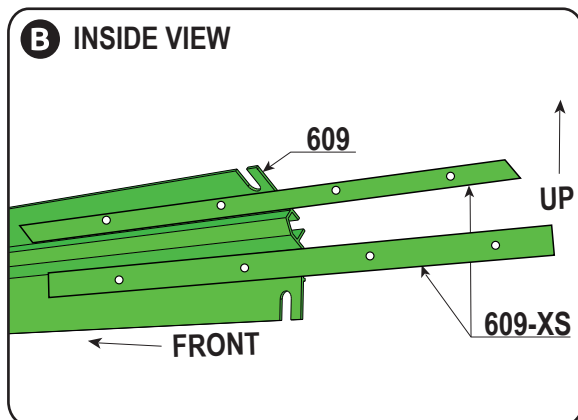
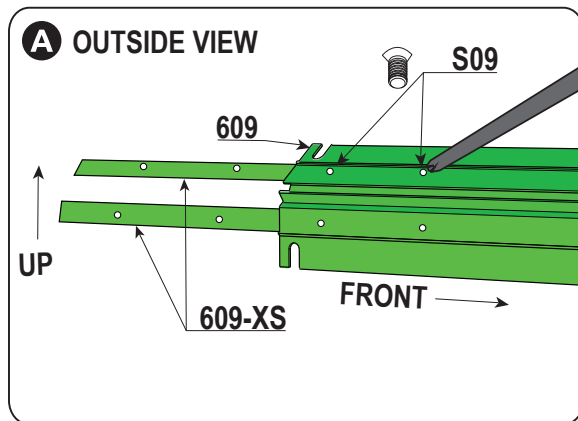
MIDDLE ASSEMBLY INSTRUCTIONS CONTINUED

THIS PAGE SHOWS 6X12 EXTENSION KIT ASSEMBLY ONLY, SKIP AHEAD TO PAGE 37 FOR 6X4 OR 6X8 SIZES.

4.3 Attach the **609-XS's** to the **609** with (4) of the **S09** screws provided see **A** and **B**. The **S09** screws are to be installed on the outside of the **609** and will tighten into the **609-XS** as shown in the diagrams. Repeat with other set, note they will be opposite of each other when assembled. Make sure the **609-4X's** are toward the back of the greenhouse.

Pay special attention to the orientation of the 609, make sure the correct side faces down, see C.

4.4 Locate the (2) **609-4X's**, align each with the **609** and **609-XS** brackets. Make sure that no notches are right next to each other. If the **609** pieces are matching up correctly, match to **D**, use the **S09** screws to attach the **609-4X** extension pieces to the **609's**. Screws will install from the outside.

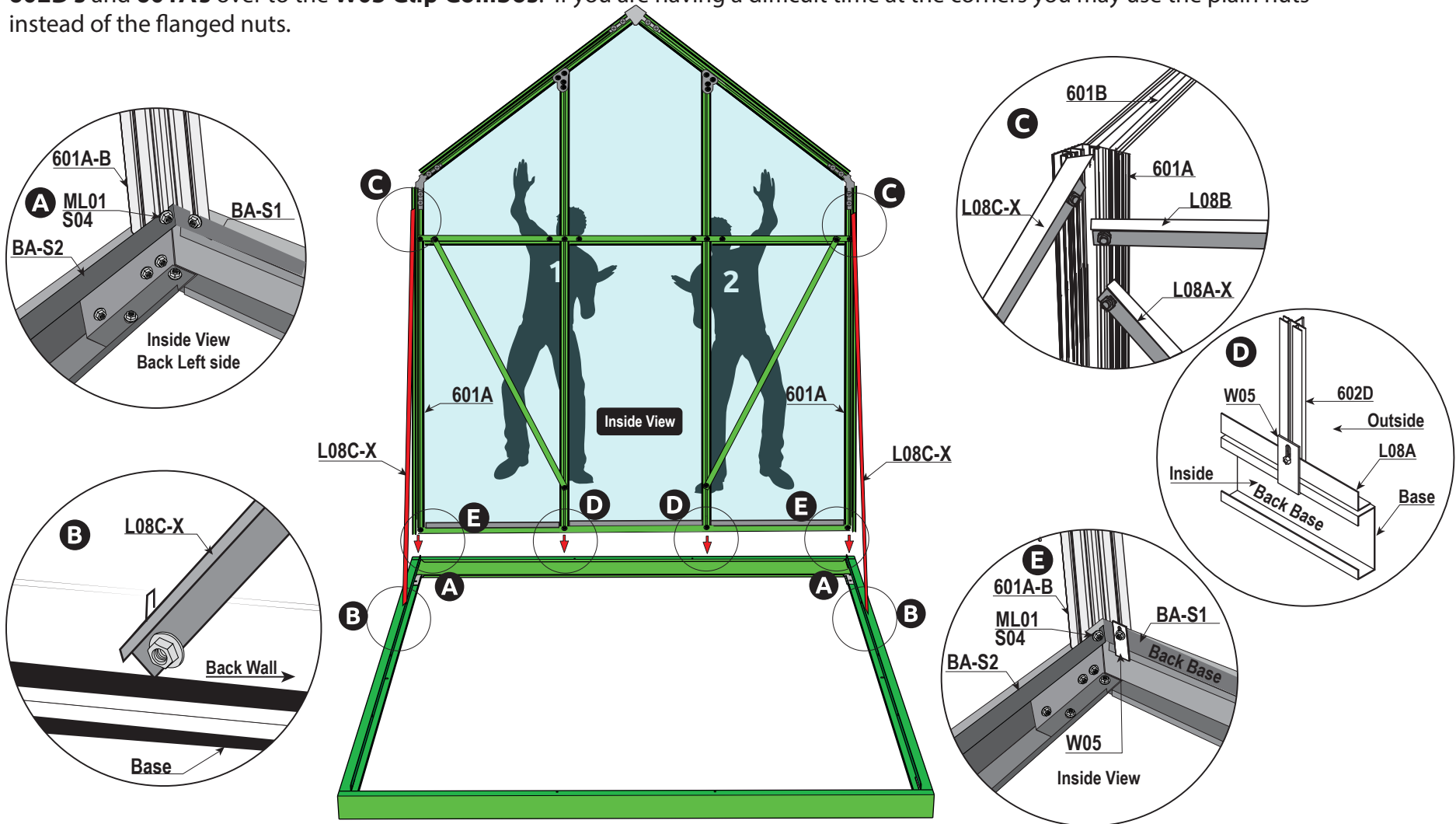


MIDDLE ASSEMBLY CONTINUED

4.5 Attach back wall **601A's** with back base corners using **S03/ML01** on both sides as shown in **(A)**.

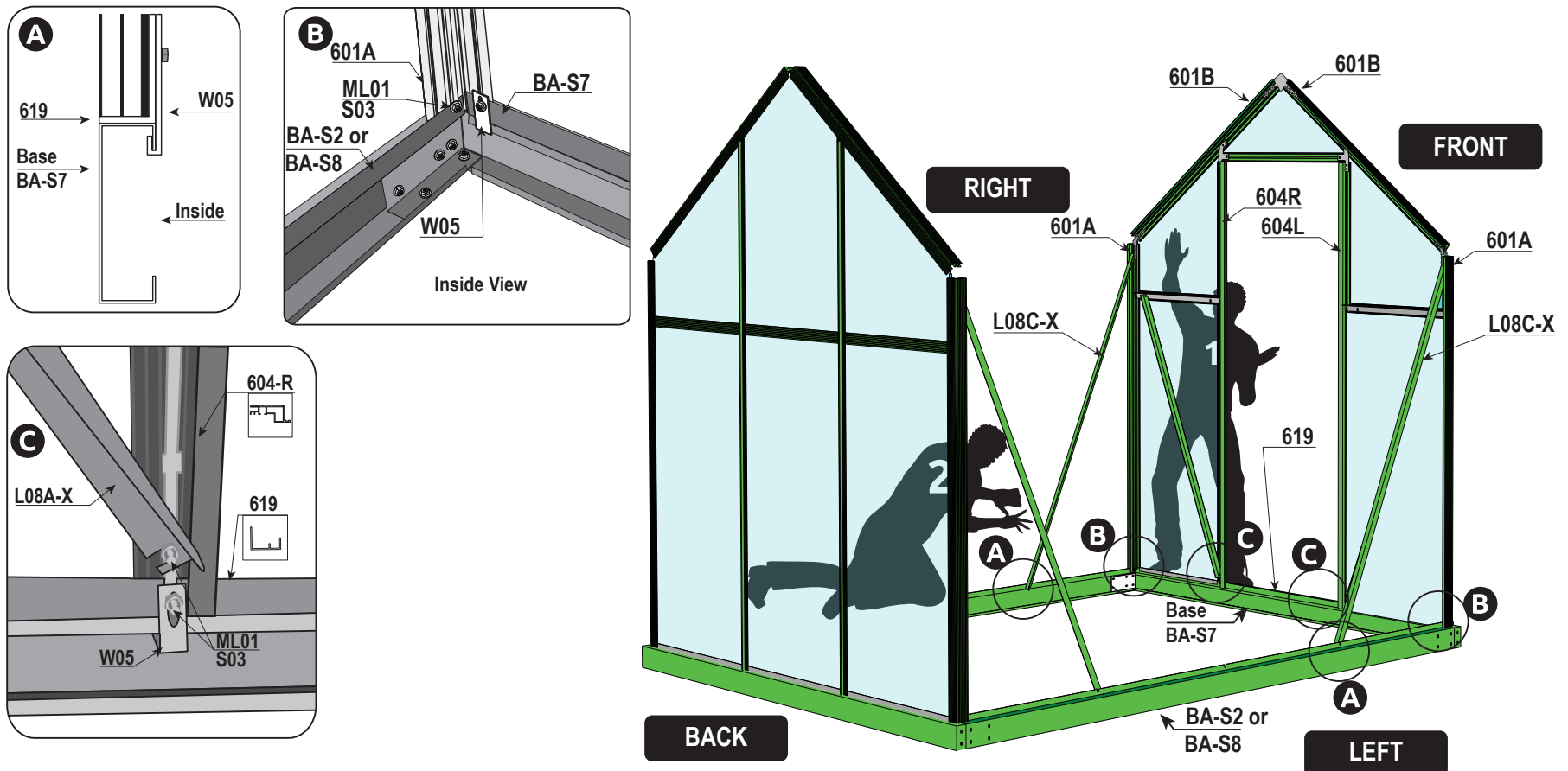
4.6 Attach bottom of **L08C-X** to rear section of base kit with **S03/ML01**, as shown in **(B)**. Attach the **L08C-X** to the **601A** as shown in **(C)**, make sure the **S03/ML01** combos are tight.

4.7 Use (2) of the **W05** clips to attach the backwall where the **601A's** meet the corner of the base as shown in **(E)**, and (2) **W05** clips where **602D's** meet the **BA-S7** see **(D)**. You will switch out the **S03/ML01** that were originally used to hold the **L08A** to the **602D's** and **601A's** over to the **W05 Clip Combos**. If you are having a difficult time at the corners you may use the plain nuts instead of the flanged nuts.



MIDDLE ASSEMBLY CONTINUED

4.8 With 2 people place the front section onto the base kit, aligning the corners with the base sides that have the edge. Have one person hold the front vertically while the other attaches the front section to the base with **W05/S03/ML01** fasteners. See **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 **S03/ML01** combos that were originally used for the **601A's** and **604's** over to the **W05 Clip Combo**. If building a 6x4 you will only be able to use one set of the **L08C-X's** so you will skip ahead to step **4.9**. If building a 6x8 you will attach the **L08C-X** supports to stabilize the front wall.



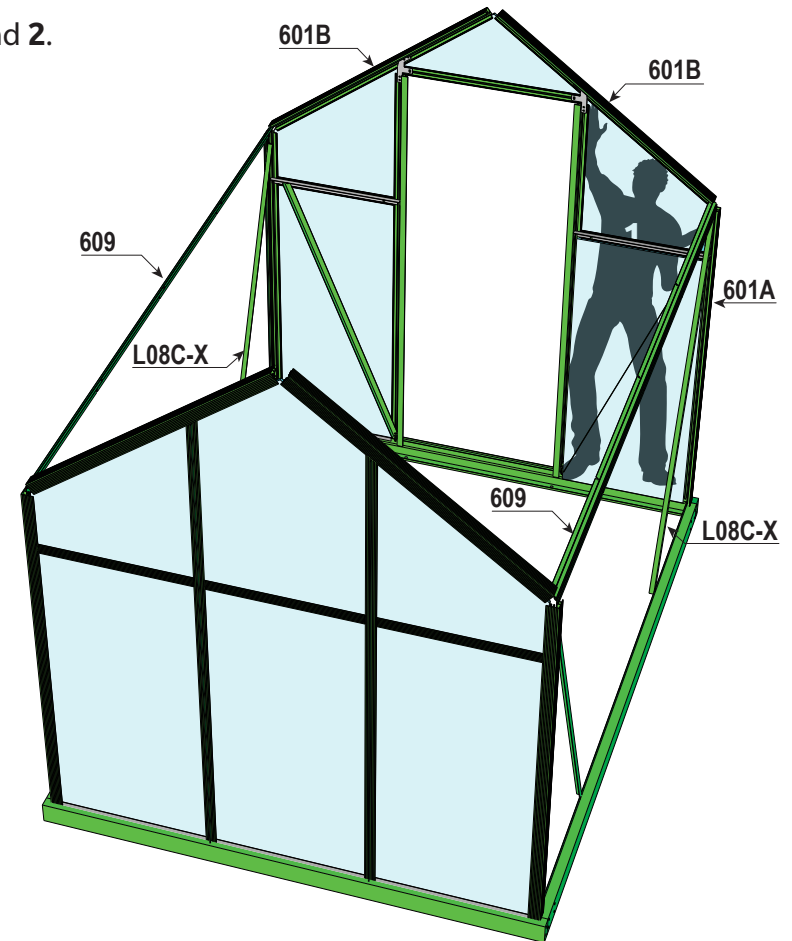
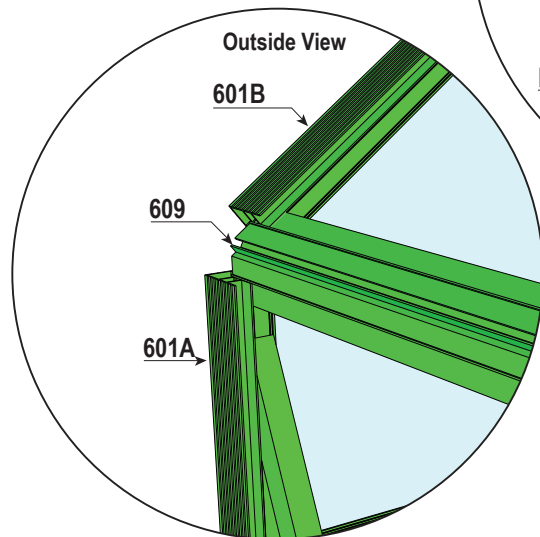
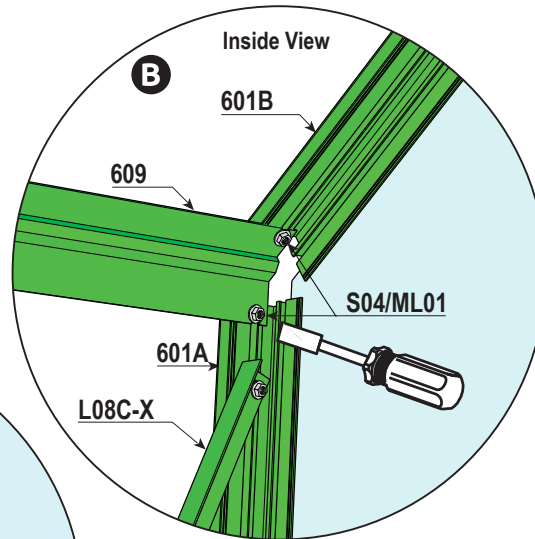
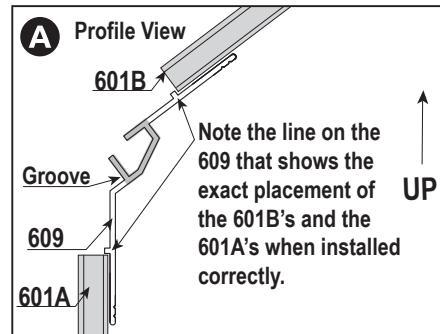
MIDDLE ASSEMBLY CONTINUED

4.9 With 2 people proceed to install 609's in this order, note that 609 must be installed with groove side down. See **A . Compare with **610 Gutter** 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** and **601A** using **S04/ML01** (nut and bolt). See **B** . Note that if building a **6x4 Greenhouse** **Person 1** will need to hold the front wall upright and steady and hold the end of the **609** while **Person 2** attaches the **609**.**

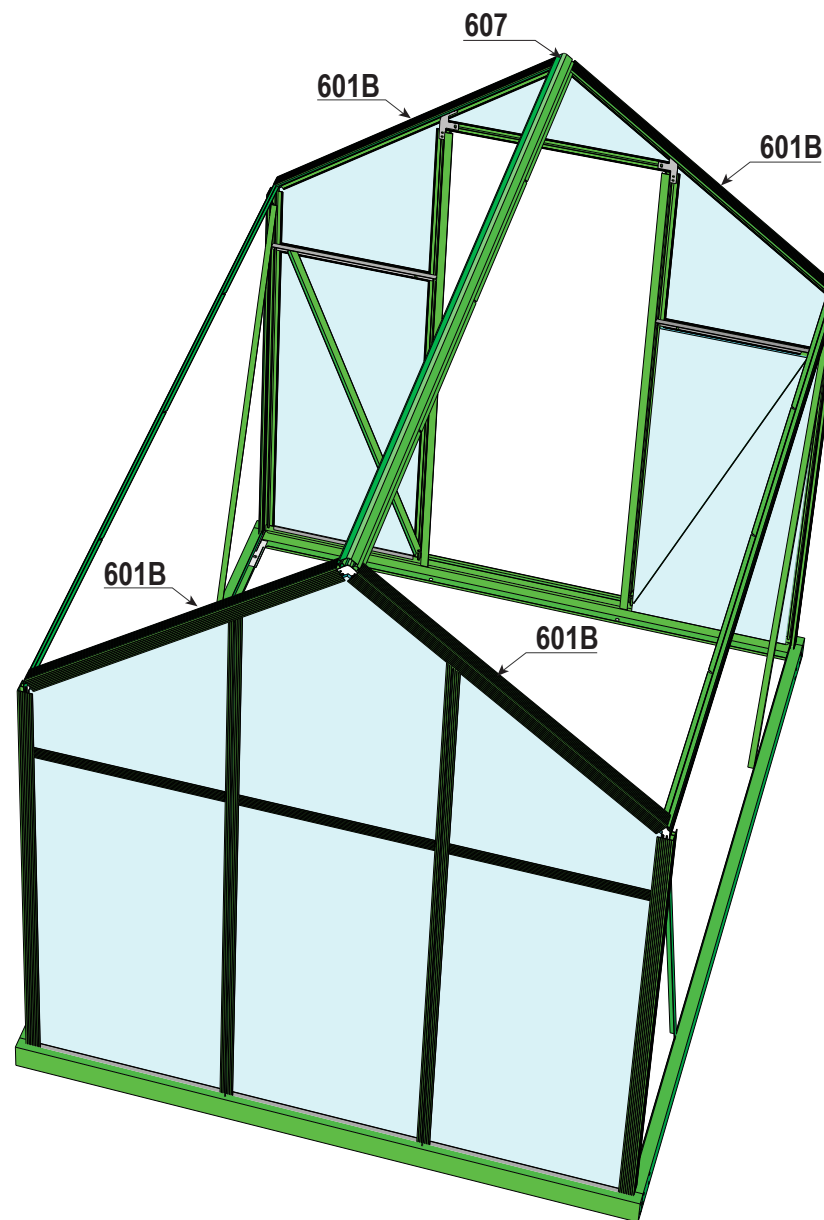
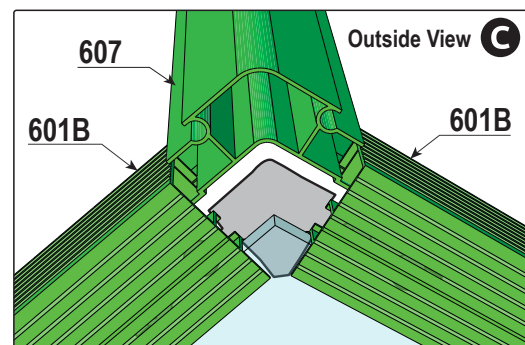
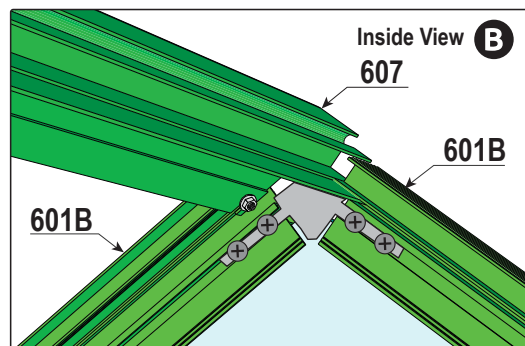
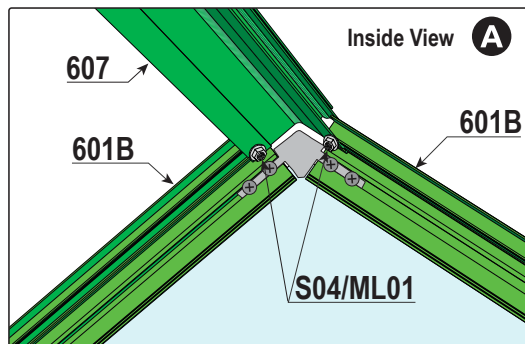
2. Repeat step 1 for the other end of **609.**

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



MIDDLE ASSEMBLY CONTINUED

4.10 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.



MIDDLE ASSEMBLY CONTINUED

4.11 Before you attach the **602A's** to the sides of the greenhouse you will need to remove the **ML01** nuts attached to the **S03, L08C-X**. See diagram **A**.

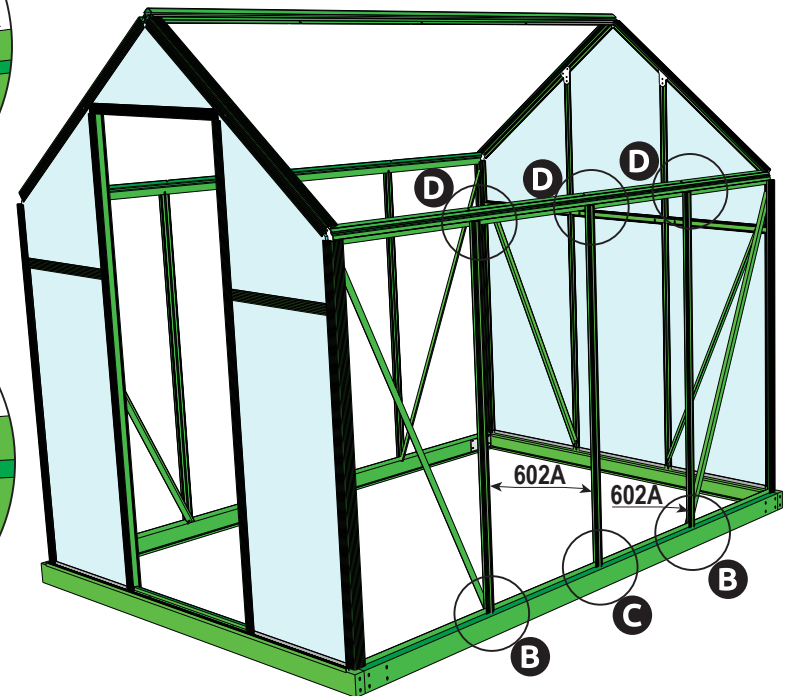
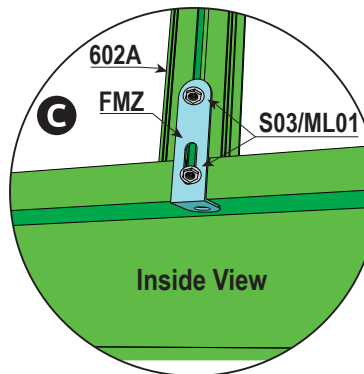
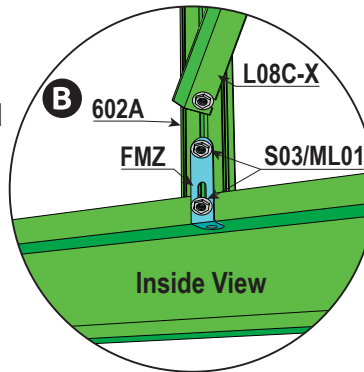
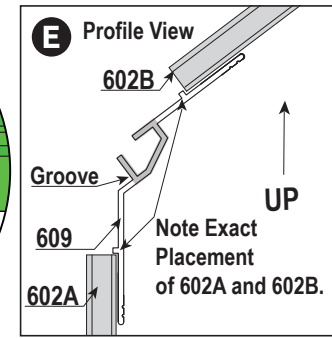
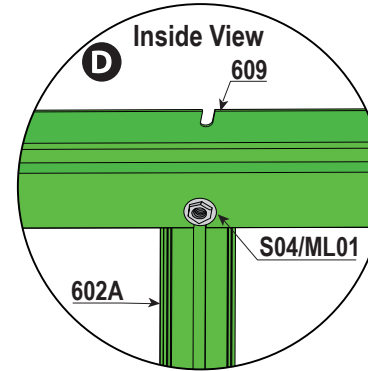
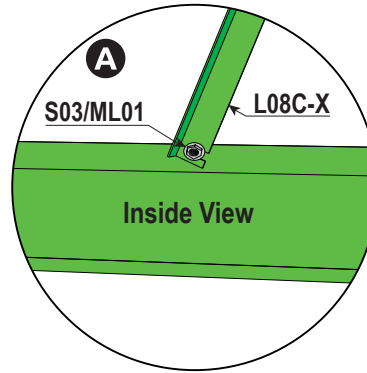
1. Use the **S03/ML01** combos to attach the **FMZ** to the base, and allow the **L08C-X** to rest, set the **602A** onto the **S03** bolts attached to the **FMZ**. Be sure the **602A** is aligned and sitting flush with bottom edge of the **BASE**. See **B** for reference. Tighten the **ML01** nuts.

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 **D** and **E**.

* Note **6x4** size greenhouses you will install only (1) **602A** per side, and it will look like **B**.

3. For **6x8** sizes repeat steps 1 and 2 on all four corners where the **L08C-X** 's meet the base, and replace with an **FMZ**.

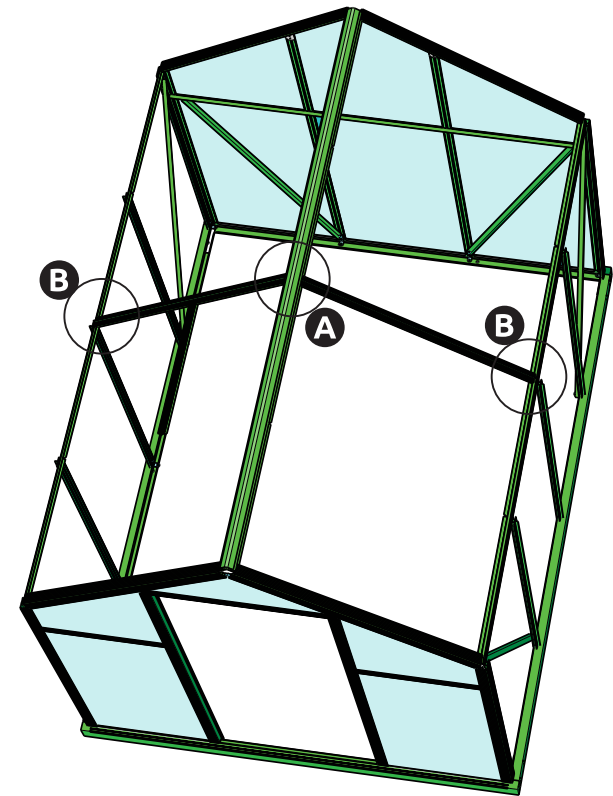
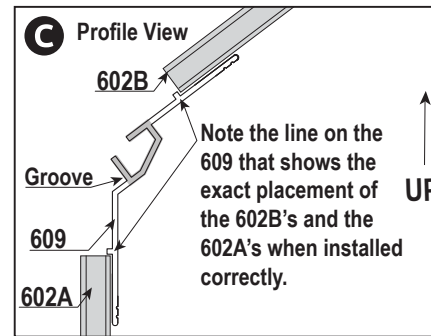
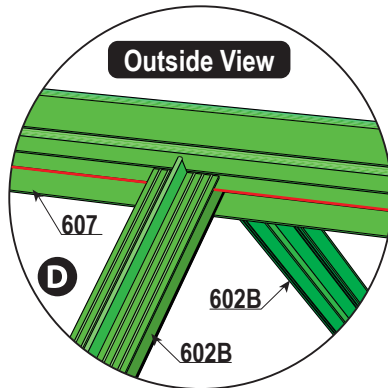
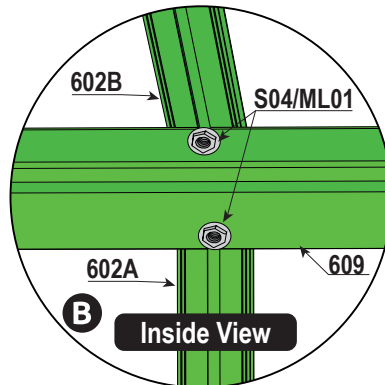
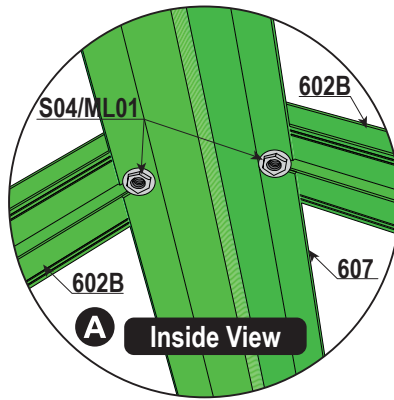
4. If building a **6x8** size greenhouse attach the remaining **602A's** to the **FMZ** and the **BASE** with the **S03/ML01** combo as shown in **C**. Then attach the top of the **602A** to the **609** with an **S04/ML01**, be sure to align the top of the **602A** to the exact line on the **609** as is shown in **D** and **E**.



MIDDLE ASSEMBLY CONTINUED

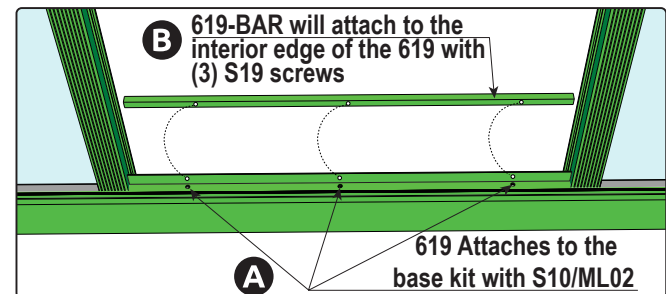
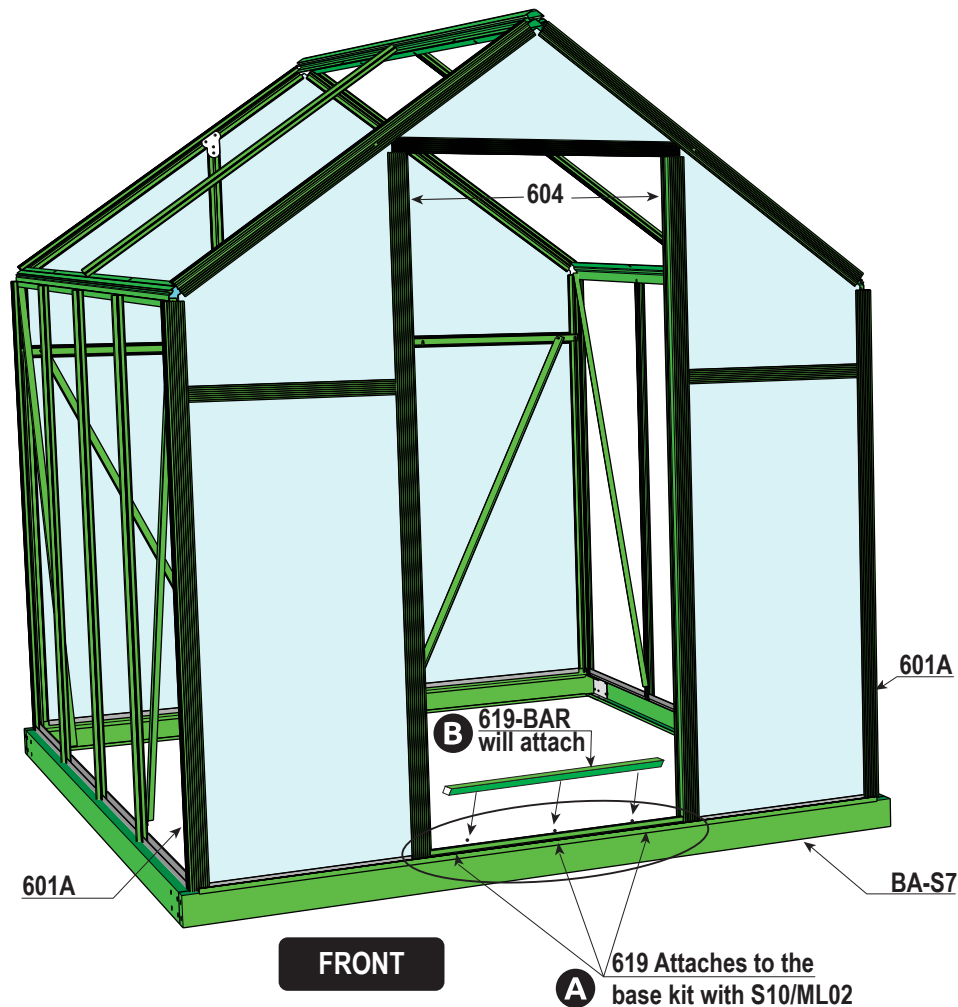
4.12 Attach **(1)** **602B** to the middle of each side of the greenhouse as shown in the diagram. See **A** and **B**.

Note the exact placement where the **602B** aligns to the **609** and **607**.
See **C** and **D**.



MIDDLE ASSEMBLY CONTINUED

4.13 Attach the front section **619** to the base using (3) **S10/ML02** fasteners as shown in **A**, then attach the **619-BAR** threshold support to the inside of the **619** with (3) **S19** self tapping screws included in the package, see **B**.

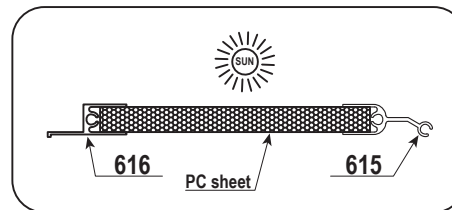
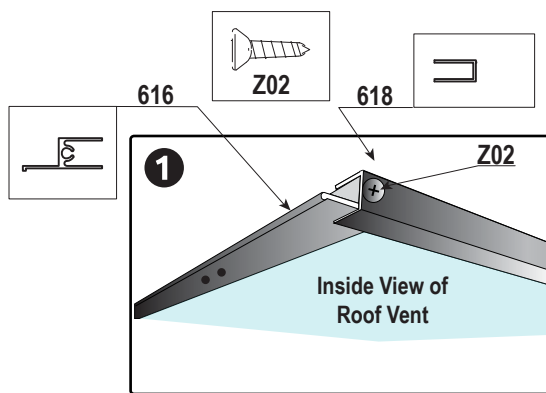
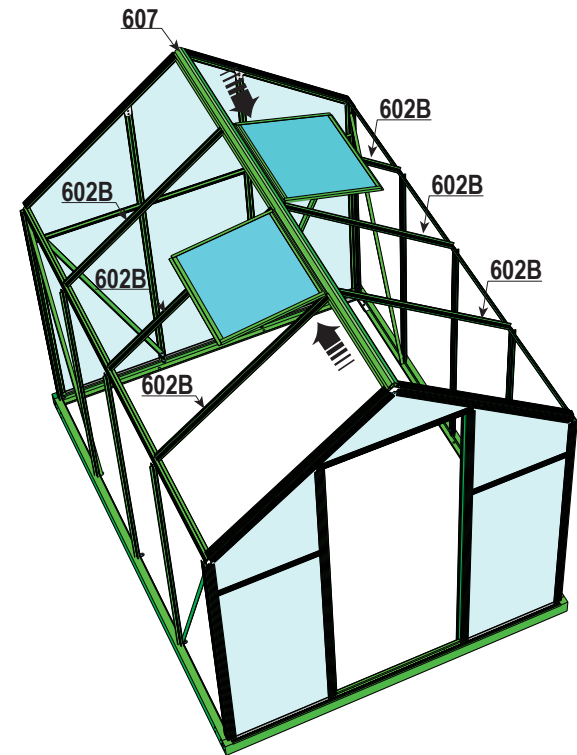


MIDDLE ASSEMBLY CONTINUED

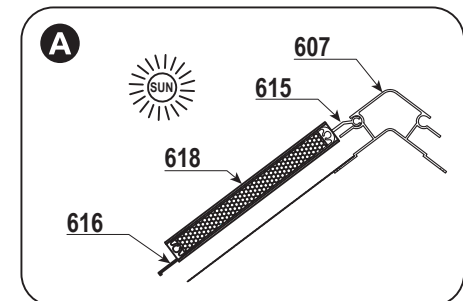
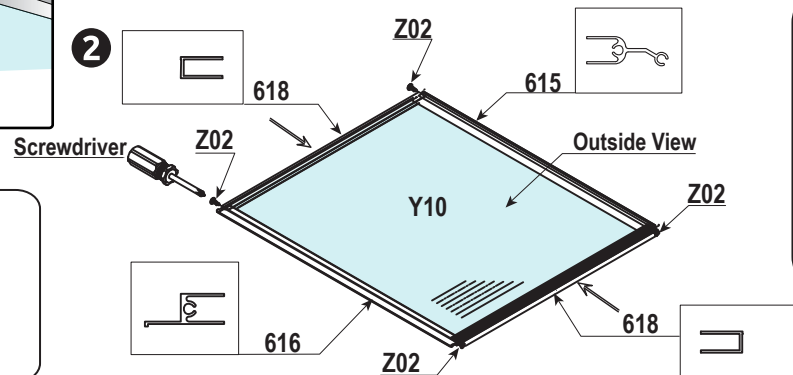
4.14 Assemble the roof window vents as shown below in **1** and **2**, using the **Z02** screws attach the **615**, **616**, and **618's** with the **Y10** panel as shown. Be careful not to strip screw heads. Pay attention to the **Y10** panel, stickers face the sun, and that the frames are assembled according to images below.

4.15 Insert assembled window into the end of ridge of **607** and slide into position. See **A**. Window positions are your discretion, a **6x4** will have (1) roof vent and a **6x8** will have (2) roof vents.

4.16 For a **6x8** attach the additional **602B's** as shown after all roof vents are positioned.



Note Correct Orientation

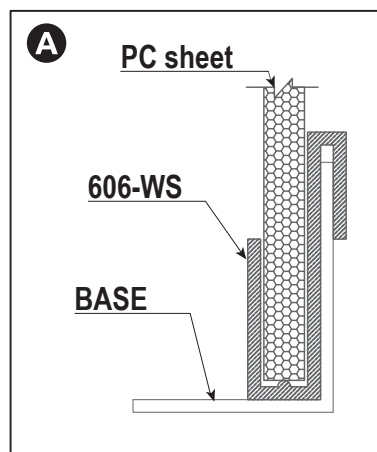


For 6x8 size Elements place roof windows in desired location before attaching all **602B's** for easiest installation.

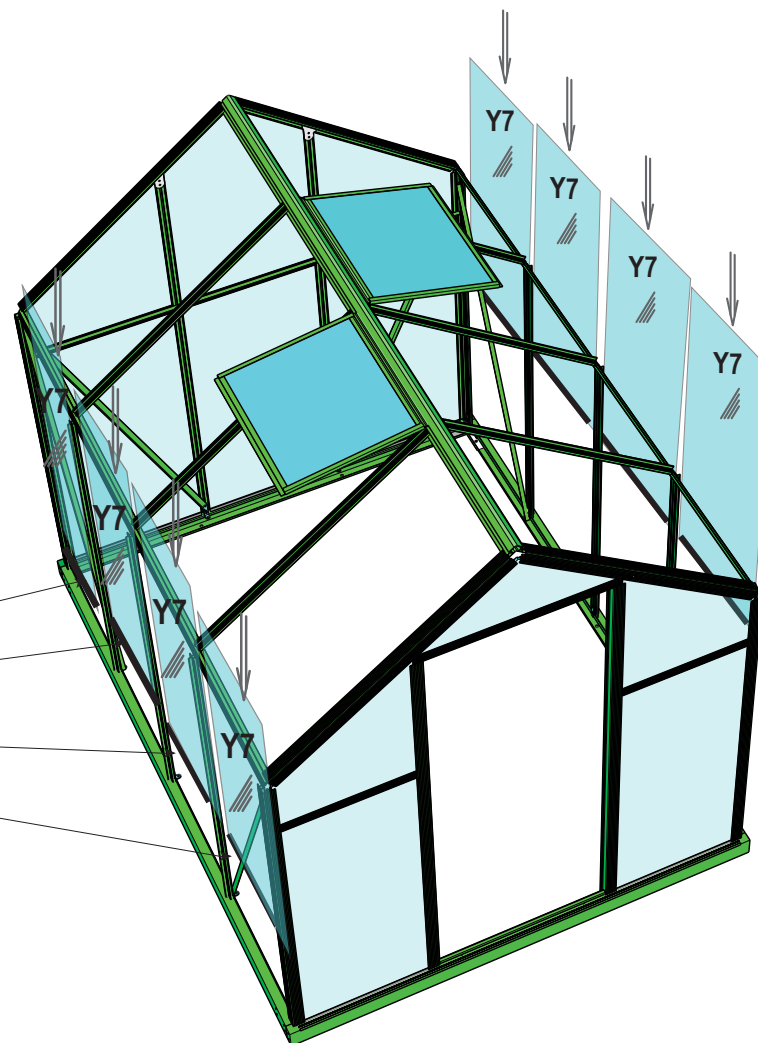
MIDDLE ASSEMBLY CONTINUED

4.17 Install plastic strip **606-WS** before inserting polycarbonate sheet **Y7's**, see **A** . Install all **Y7** panels into the channel's of the side walls, and fit down into the **606-WS**.

4.18 After **Y7'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 **Y7's** will align when greenhouse is level or plumb.



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.

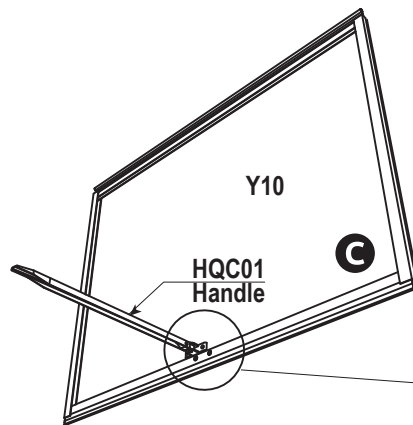
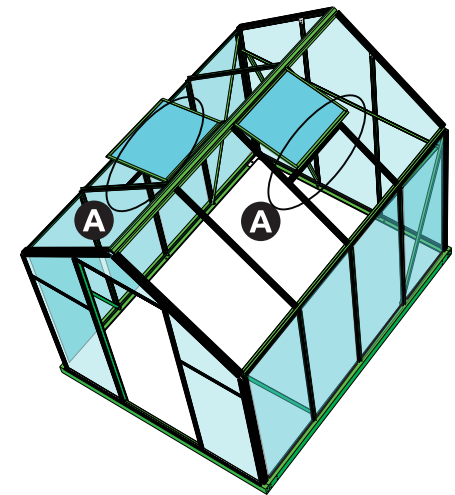
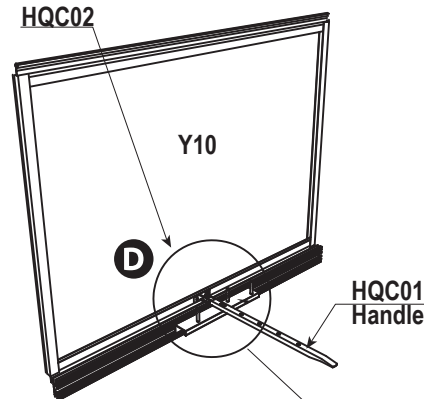
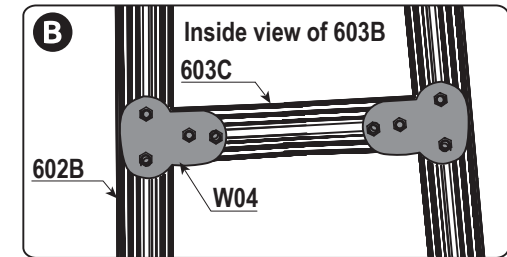
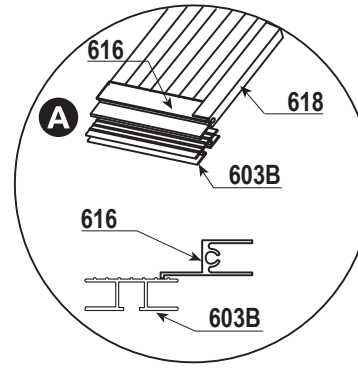


MIDDLE ASSEMBLY CONTINUED

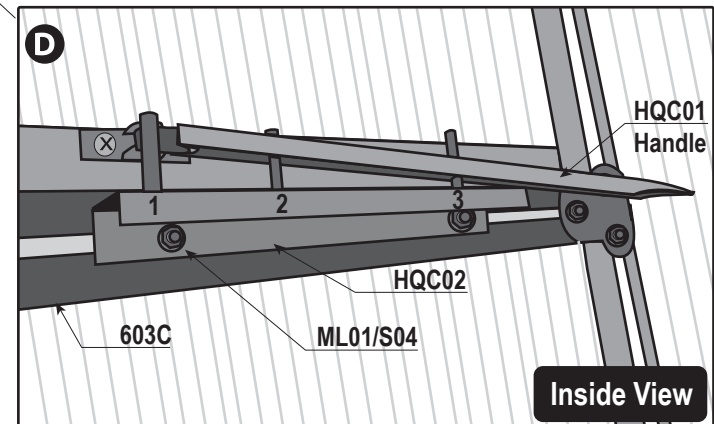
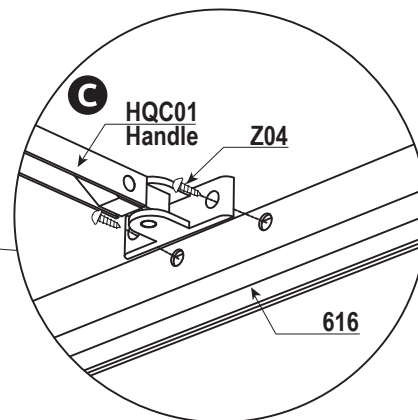
4.19 To ensure there is no gap in roof vent position **603C** as shown in **(A)**. Connect **603C** to middle of **602B**'s using **W04** brackets and **S04/ML01** combos as shown. See **(B)**.

4.20 Attach **HQC01** to **616** with the **Z04** screws see **(C)**, 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 **(D)**.

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



Inside View



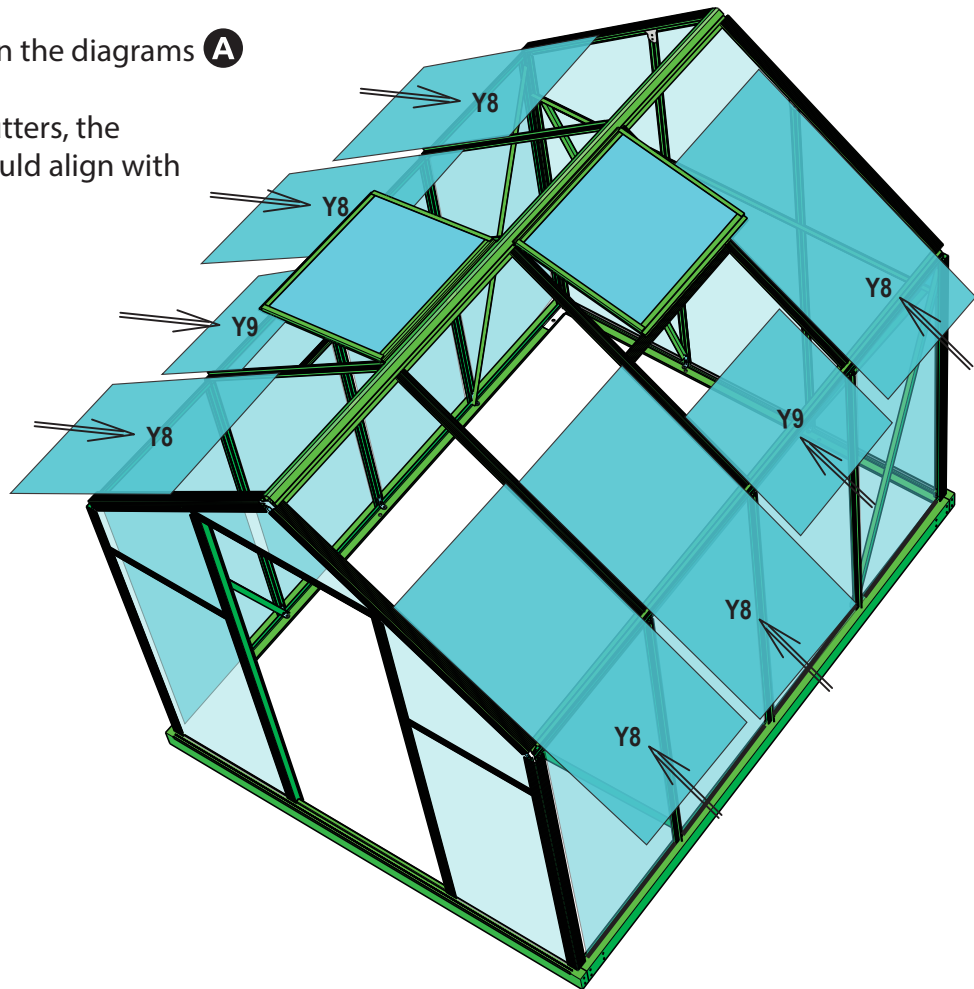
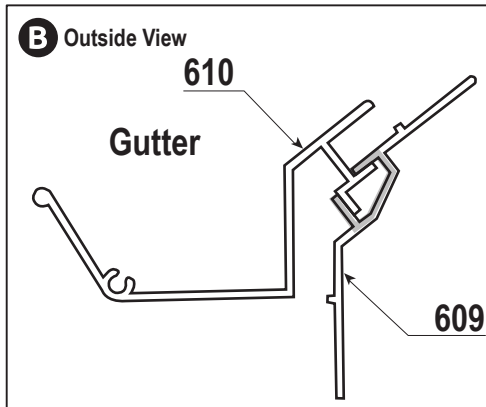
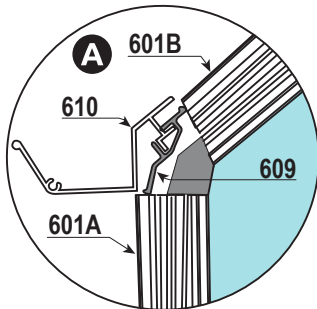
Inside View

MIDDLE ASSEMBLY CONTINUED

4.21 Insert polycarbonate sheets **Y8'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.

4.22 Slide **610 Gutters** into **609's** groove as shown in the diagrams **A** and **B**. Repeat on both sides.

FOR EXTENSION KIT: Note the orientation of the gutters, the extension gutters will be at the back and the holes should align with gutter down spout holes see next page.

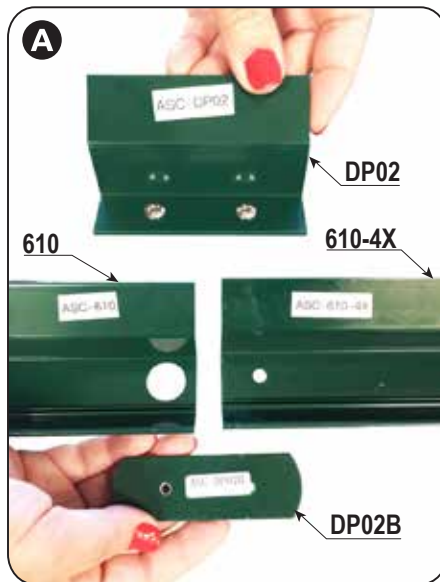


MIDDLE ASSEMBLY CONTINUED

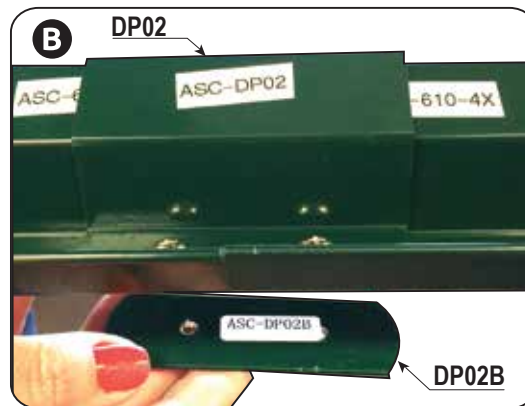
THIS PAGE IS FOR EXTENSION KIT INSTALLATION ONLY, SKIP TO NEXT PAGE FOR 6X4 AND 6X8.

4.23 Push gutters together so they meet in the middle, apply a small amount of the silicone caulk to the seam where the **610** gutters meet, then attach the **DP02** on the inside of the gutter and the **DP02B** will slide under the gutter and will rest above the **602A**. Apply silicone to the holes where the **S07** screws will attach the **610** gutters to the **DP02** and **DP02B**. Note the **DP02B** has pre-tapped holes to accept the screws, install the **S07** screws through the **DP02** and into the **DP02B**. See diagram **A**, **B** and **C**.

Repeat these steps to assemble the additional set(s) for both sides of your greenhouse.
Remove the tape from the panels you may have used to hold in place.



Note: ASC is the abbreviation for Ascent, ELE is the abbreviation for Element.
Note these are the same gutter pieces for both models they may begin with different abbreviations but are the same pieces.

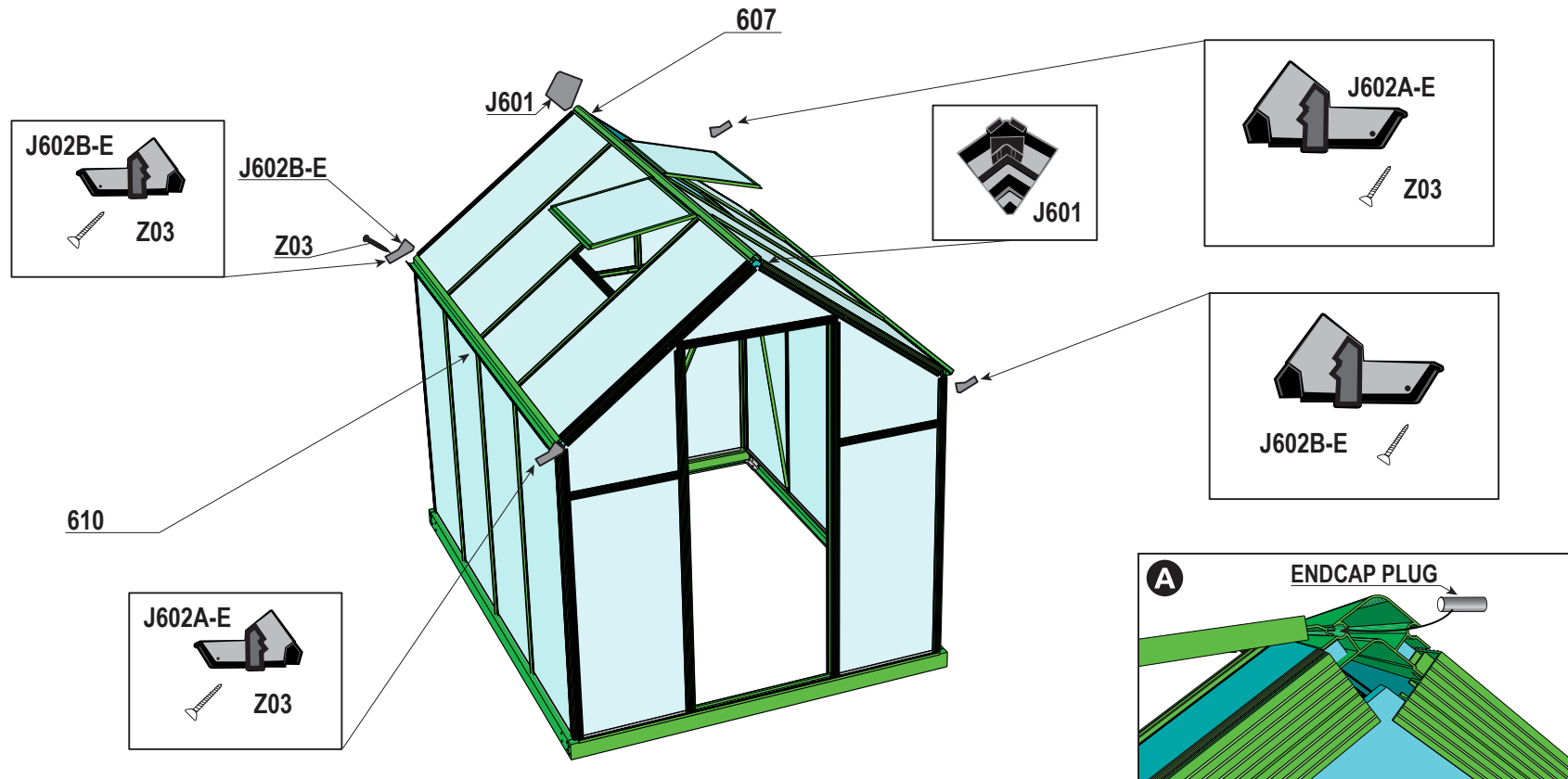


MIDDLE ASSEMBLY CONTINUED

4.24 For any size greenhouse if you have chosen to place a roof vent nearest the front or back you will need to locate the **ENDCAP PLUG**, you will slide into the **607** track just before placing the **J601** caps into place in next steps. See **A**.

4.25 Attach 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. You will need to quickly secure the **Z03**'s into the **J602A-E** and **J602B-E**. It is recommended to caulk any areas that may allow water penetration such as around gutter end caps to seal against water. It is helpful to apply a piece of tape on the outside of the endcaps so they seal tight to their intended extrusion, remove tape within 24 hours once silicone has set.

4.26 It is recommended to apply silicone caulk to the seams where panels meet the frame for water resistance.

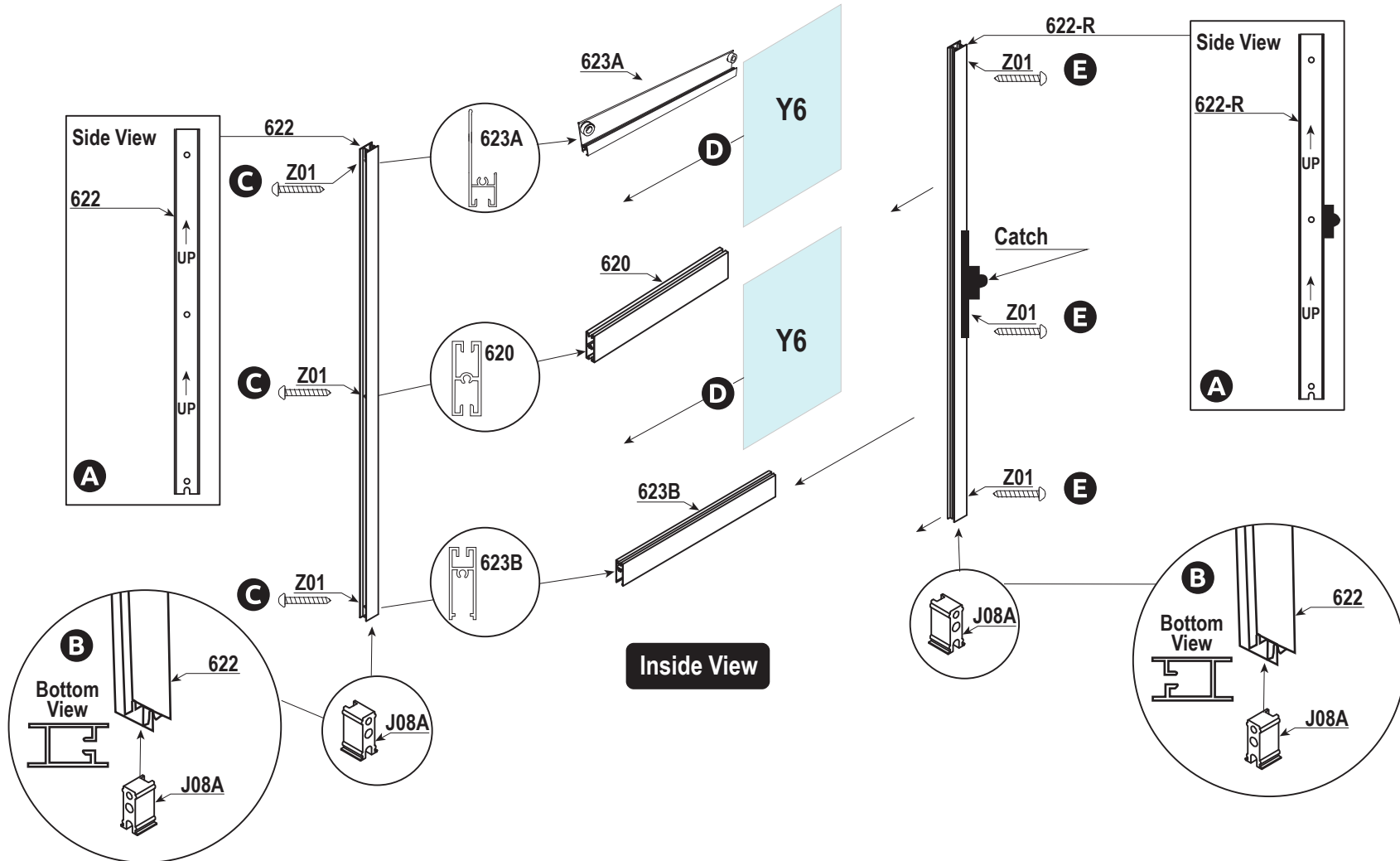


DOOR ASSEMBLY DIAGRAM

This image shows the inside view of Right Door Assembly.

All parts for door assembly will be found in box GRA-ELE-8A and GRA-ELE-8P or GRA-ELE-4A and GRA-ELE-4P.

Use the #2 head Phillips Screw Driver for installation.



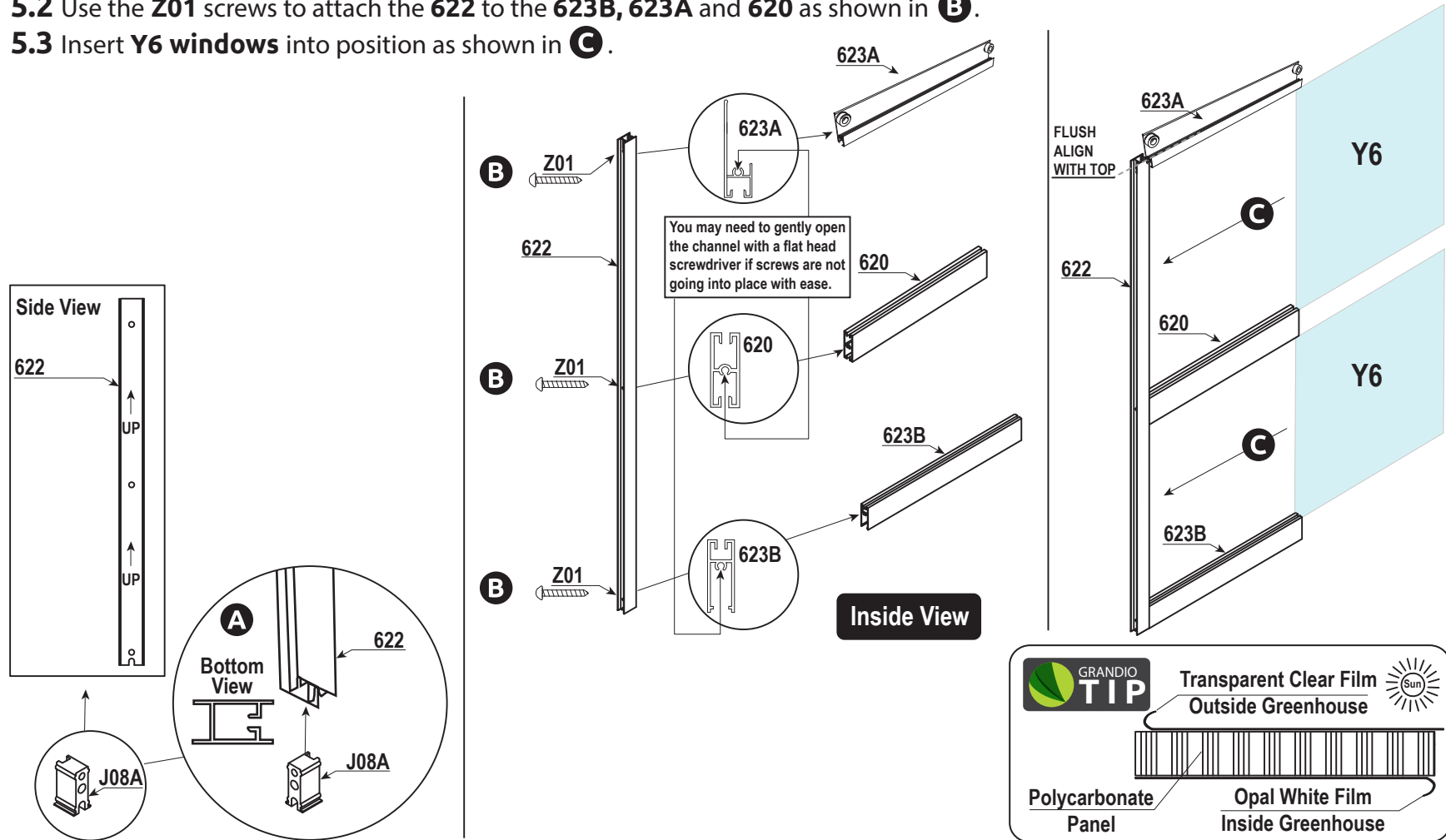
DOOR ASSEMBLY

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 54. 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, if holes are not appearant you may need to drill holes. This will save you from assembling the wrong way. Be careful not to strip the phillips heads when assembling.

5.1 Insert **J08A's** into the bottom of the **622's**, 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**.

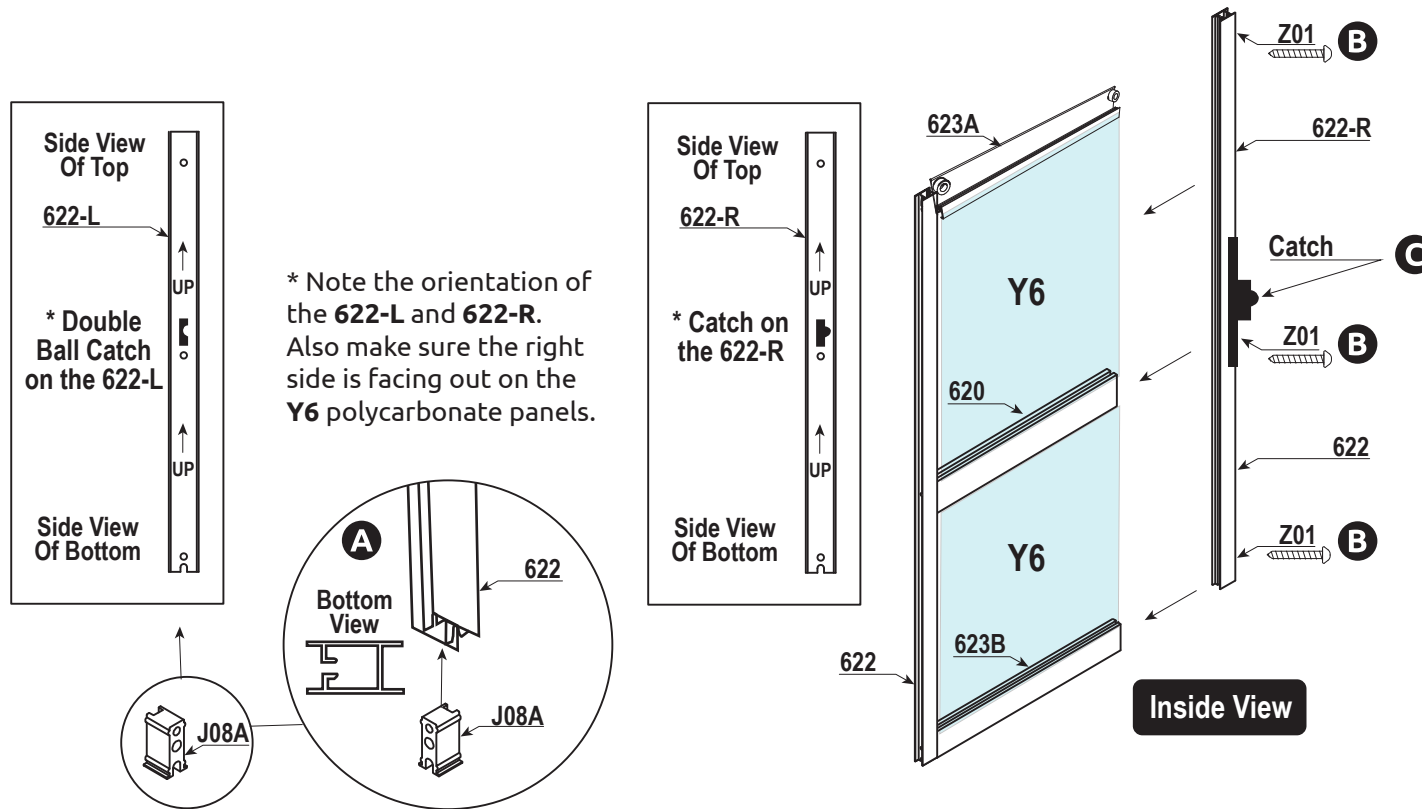


DOOR ASSEMBLY

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

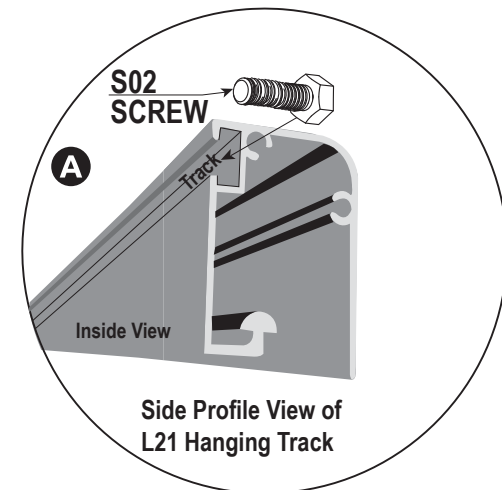
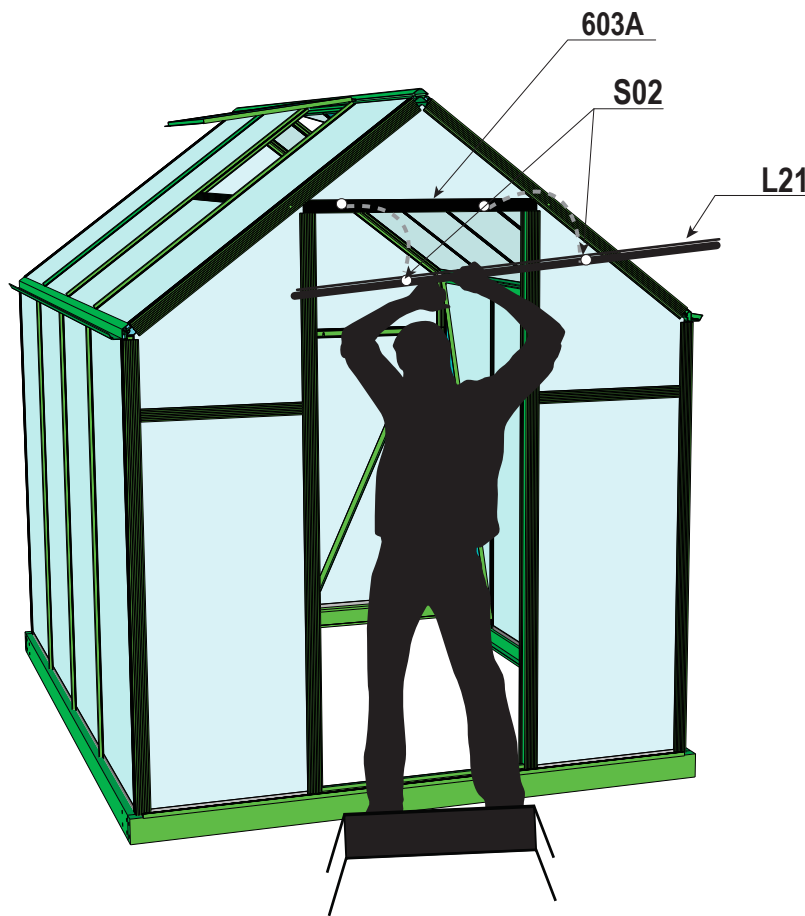
5.5 Attach the **622-R** to the **623B**, **623A** and **620** using the **Z01** screws as shown in **B**.

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**.



DOOR ASSEMBLY

5.7 Slide the (2) **S02** bolts down the track of the **L21**. See **A**. Align with the holes on the **603A** 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.

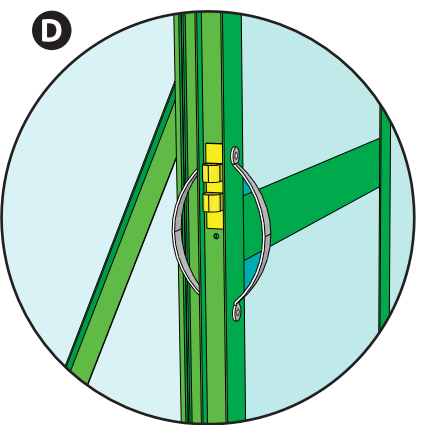
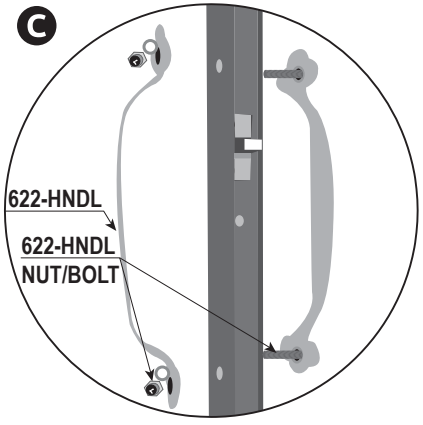
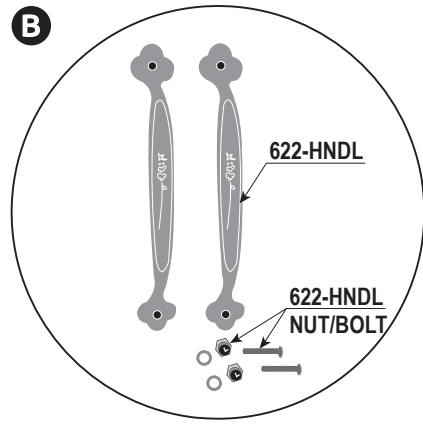
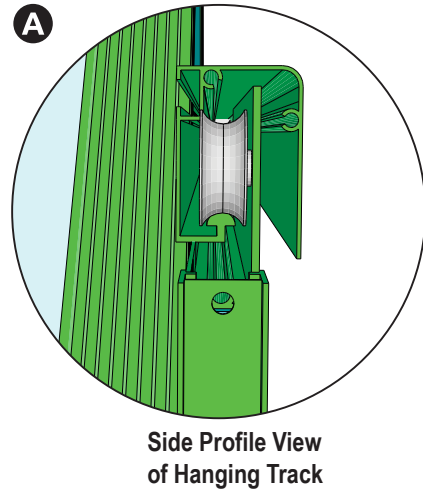
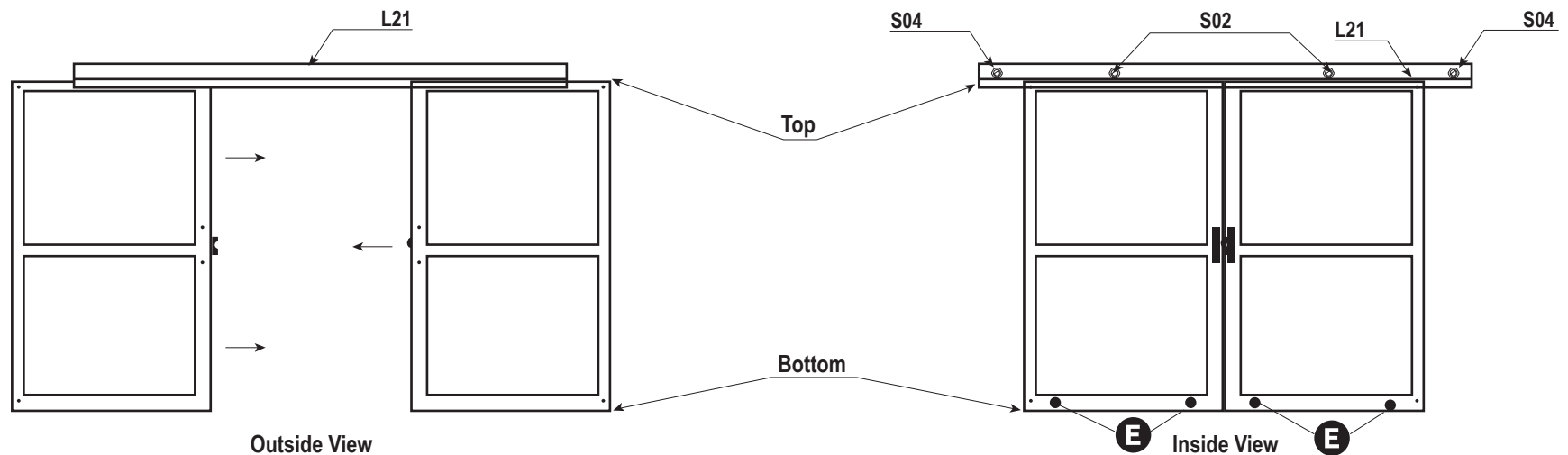


DOOR INSTALLATION

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**, **C** and **D**.

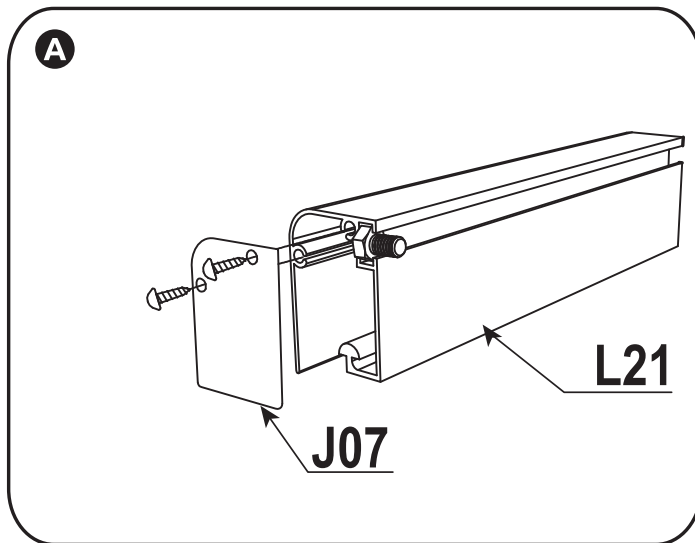
****We included some felt dots in your Grandio Welcome Kit, please apply to the inside bottom edge of the 623B as shown in **E**, these felt dots will make your doors fit snug and slide smoothly.**



DOOR INSTALLATION

5.10 Attach **J07's** to **L21** with included screws on both ends of the **L21**. See **A**.

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



FINAL SUPPORT INSTALLATION

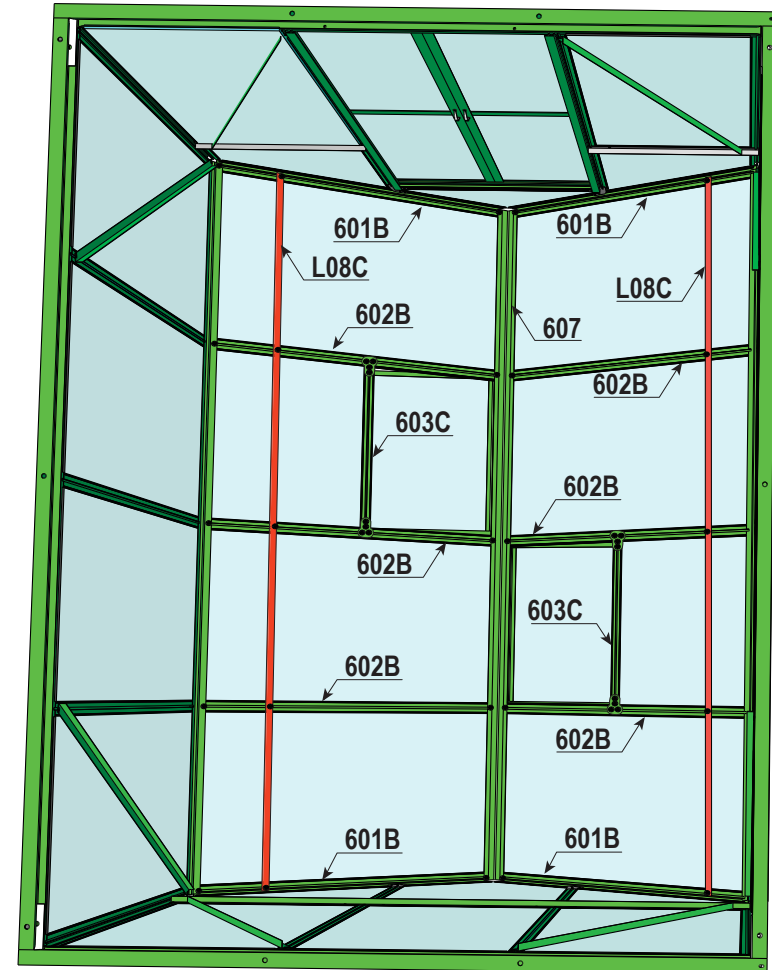
5.12 Attach the (2) **L08C's** along the inner roof as shown in the image. The **L08C's** will attach to the **601A's** and the **602B's** with **S04/ML01** combos.

5.13 If you have just finished a 6x4 greenhouse and have (2) **L08C-X's** left over you may install them to your front side walls diagonally like the ones in the back for extra support.

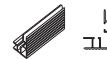
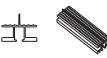
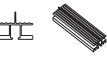
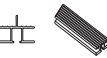
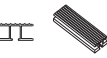
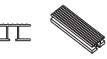
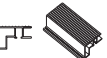
Congratulations

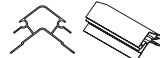
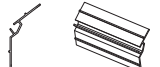
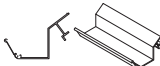
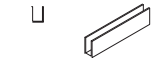
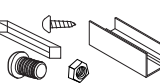
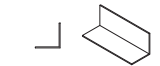
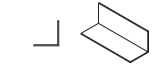
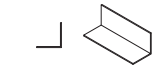
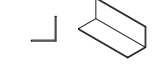
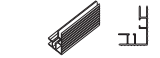
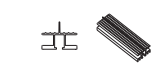
You are now finished with assembly!

Use the Goo Gone to remove any stickers to make your greenhouse shine.

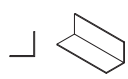
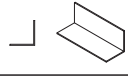
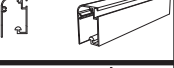
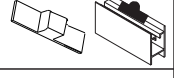
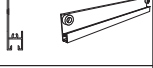
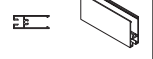


(GRA-ELE-64A) (GRA-ELE-68A) GRANDIO ELEMENT ALUMINUM PACKING LIST

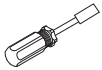
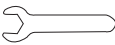
	GRAPHIC	PART NAME	SIZE/LOCATION	6X4 QTY	6X8 QTY
		601A	1436 mm / 56 9/16" ALL CORNERS	4	4
		601B	1082 mm / 42 5/8" CORNER ROOF	4	4
		602A	1437 mm / 56 1/2" SIDE WALL	2	6
		602B	1082 mm / 42 5/8" ROOF RIBS	2	6
PACKED TOGETHER		602D-L	1893 mm / 74 1/2" BACK WALL	1	1
		602D-R	1893mm / 74 1/2" BACK WALL	1	1
		603A	782mm / 30 13/16" ABOVE DOOR	1	1
		603B	466 mm / 18 3/8" FRONT WALL	2	2
		603C	555 mm / 21 7/8" BACK WALL & UNDER ROOF VENT	4	5
PACKED TOGETHER		604-R	1797 mm / 70 3/4" FRONT RIGHT DOOR FRAME	1	1
		604-L	1797mm / 70 3/4" FRONT LEFT DOOR FRAME	1	1

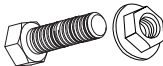
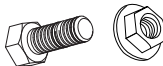
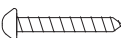
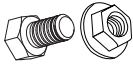
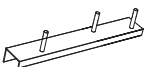
	GRAPHIC	PART NAME	SIZE/LOCATION	6X4 QTY	6X8 QTY
		607-4 607-8	1206 mm / 47 1/2" 2394mm / 94 1/4"	1	1
		609-4 609-8	1206 mm / 47 1/2" 2394mm / 94 1/4"	2	2
		610-4 610-8	1206 mm / 47 5/8" 2397mm / 94 3/8"	2	2
		615	578 mm / 22 3/4" ROOF VENT	1	2
		616	578 mm / 22 3/4" ROOF VENT	1	2
		618	500 mm / 19 3/4" ROOF VENT	2	4
		619 PACK 619-BAR (3) S19 SCREWS (3) S10 / ML02	1800 mm / 70 7/8" 710 mm / 27 15/16" M4*10 M6*16 / ML02	1 SET	1 SET
		L08A	1799 mm / 70 13/16"	1	1
		L08B	1799 mm / 70 13/16"	1	1
		L08C-4 L08C-8	(6X4) 1207 mm / 47 1/2" (6X8) 2394 mm / 94 1/4" FLAT MOUNT BASE SIDE	2	2
		L08D	526 mm / 20 11/16" FRONT WALL	2	2
PACKED TOGETHER		601A-SPACERS	100 mm / 4" FLAT MOUNT SPACERS	4	4
		602A-SPACERS	100 mm / 4" FLAT MOUNT SPACERS	2	6

(GRA-ELE-64A) (GRA-ELE-68A) GRANDIO ELEMENT ALUMINUM PACKING LIST

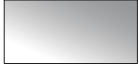
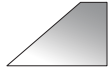
GRAPHIC	PART NAME	SIZE/LOCATION	6X4 QTY	6X8 QTY	
	L08A-X	1180 mm / 46 7/16" FRONT & BACK WALL X SUPPORT	4	4	
	L08C-X	1480 mm / 58 1/4" SIDE WALL X SUPPORT	4	4	
	606-WS	553 mm / 21 3/4"	7	11	
	606-WS-SHORT	464 mm / 18 1/4"	2	2	
	620	330 mm / 13"	2	2	
	L21	1500 mm / 59 1/16"	1	1	
PACKED TOGETHER		622	1772 mm / 69 3/4"	2	2
		622-R	1772 mm / 69 3/4"	1	1
		622-L	1772 mm / 69 3/4"	1	1
		623A	330 mm / 13"	2	2
	623B	330 mm / 13"	2	2	

GRANDIO ELEMENT 6X4 AND 6X8 HARDWARE BOX PACKING LIST IN (GRA-ELE-4P OR GRA-ELE-6P)

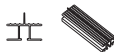
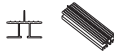
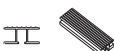
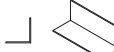
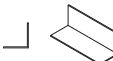
GRAPHIC	PART NAME	SIZE/LOCATION	QTY - 64A & 68A
	622-HNDL	DOOR HANDLES	4
	622-HNDL NUT BOLT	4 FASTENER SETS	4 SETS
	J07	L21 END CAP & (2) SCREWS	2 SETS
	J08A	PACKED IN SETS OF 2	4
	ML02	OPTIONAL UNFLANGED NUTS	8
	J601	END CAPS	2
	J602A-E	END CAPS	2
	J602B-E	END CAP	2
	W11	SCREW DRIVER	1
	W13	10 MM NUT DRIVER	1
	W1	10 MM WRENCH	1
	W08	ROOF	2
	W02	FRONT & BACK SIDES	4
	W02T	FRONT WALL TO ROOF	2

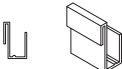
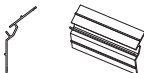
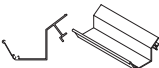
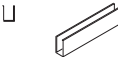
GRAPHIC	PART NAME	SIZE/LOCATION	6X4 QTY	6X8 QTY
	S02/ML01	M6*25	4	4
	S04/ML01	M6*14	92	134
	S05	M6*10 FOR W08 & W02	25	25
	Z01	M4*30 Screws for Doors	13	13
	Z03	M3*25 Screw for End Caps	4	4
	W04	BRACKET 603C UNDER ROOF VENT	2	4
	W04-1	BRACKET BACK WALL	2	2
 	FMZ	FLAT MOUNT BASE BRACKET	10	15
	S03/ML01	M6*10	28	34
	ENDCAP PLUG	34 MM PLUG FOR ROOF VENT	2	3
  	HQC01	ROOF VENT ARM	1	2
	HQC02	ROOF VENT LATCH	1	2
	Z04, S04, ML01	ROOF VENT HARDWARE	3/2	5/4
	Z02	M3.5*16 Screws for Roof Vents	5	9

(GRA-ELE-64P) (GRA-ELE-68P) ELEMENT PANEL BOX PACKING LIST

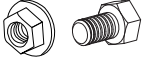
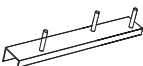
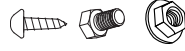
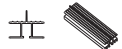
GRAPHIC	NAME	SIZE/LOCATION	WIDTH	HEIGHT 1	HEIGHT 2	6x4 QTY	6x8 QTY
	Y1	FRONT WALL PANEL	488 mm / 19 3/16"	1200 mm / 47 1/4"		2	2
	Y2-1	FRONT PANEL	488 mm / 19 3/16"	231 mm / 9 1/16"	596 mm / 23 7/16"	1	1
	Y2-2	FRONT PANEL	488 mm / 19 3/16"	596 mm / 23 7/16"	231 mm / 9 1/16"	1	1
	Y3-1	FRONT PANEL	775 mm / 30 1/2"	281 mm / 11 1/16"		1	1
	Y4-1	BACK PANEL	578 mm / 22 3/4"	230 mm / 9 1/16"	664 mm / 26 1/8"	1	1
	Y4-2	BACK PANEL	578 mm / 22 3/4"	664 mm / 26 1/8"	230 mm / 9 1/16"	1	1
	Y5	BACK PANEL	578 mm / 22 3/4"	677 mm / 26 5/8"	884 mm / 34 13/16"	1	1
	Y6	DOOR PANEL UPPER	360 mm / 14 3/16"	862 mm / 33 15/16"		4	4
	Y7	SIDE WALL PANEL	578 mm / 22 3/4"	1450 mm / 57 1/16"		4	8
	Y8	ROOF PANEL	578 mm / 22 3/4"	1109 mm / 43 11/16"		3	6
	Y9	UNDER ROOF VENT	578 mm / 22 3/4"	570 mm / 22 7/16"		1	2
	Y10	ROOF VENT PANEL	578 mm / 22 3/4"	486 mm / 19 1/8"		1	2
	Y12	BACK WALL PANELS	578 mm / 22 3/4"	1200 mm / 47 1/4"		3	3

(GRA-ELE-4X) GRANDIO ELEMENT 4' EXTENSION ALUMINUM PACKING LIST

GRAPHIC	PART NAME	SIZE/LOCATION	QUANTITY	
	602A	1437 mm / 56 5/8" SIDE WALL	4	
	602B	1082 mm / 42 5/8" ROOF RIBS	4	
	603C	555 mm / 21 7/8" BACK WALL & UNDER ROOF VENT	1	
	L08C-4	1207 mm / 47 1/2" FLAT MOUNT SIDE BASE	2	
	607-4X	1187 mm / 46 3/4"	1	
PACKED TOGETHER		607-XS	ROOF EXTENSION	1
		S08	M6*20 Attaches the 607-XS to 607	5
		S06	M4*6 Attaches DP01 to 607	3
		DP01	ROOF CAP	1
	L08C-X	1480 mm / 58 1/4" SIDEWALL SUPPORT	2	

GRAPHIC	PART NAME	SIZE/LOCATION	QUANTITY	
	606-WS	553mm / 21 3/4" WINDOW SEAL	4	
	609-4X	1187 mm / 46 3/4"	2	
PACKED TOGETHER		609-XS	609 EXTENSION CONNECTORS	4
		S09	M4*6 ATTACHES 609-XS TO 609's	20
		610-4X	1187 mm / 46 3/4"	2
		DP02	GUTTER BRACKET CONNECTOR	2
		DP02B	GUTTER BRACKET CONNECTOR	2
		S07	M5*8 ATTACHES DP02 TO DP02B	5
	615	578 mm / 22 3/4" ROOF VENT	1	
	616	578 mm / 22 3/4" ROOF VENT	1	
	618	500 mm / 19 3/4" ROOF VENT	2	

(GRA-ELE-4X) GRANDIO ELEMENT 4' EXTENSION ALUMINUM PACKING LIST

	GRAPHIC	PART NAME	SIZE/LOCATION	QUANTITY
PACKED TOGETHER		S04/ML01	M6*14	50
		W04	ROOF VENT	2
		Z02	M3.5*16 SCREWS FOR ROOF VENTS	5
PACKED TOGETHER		HQC01	ROOF VENT ARM	1
		HQC02	ROOF VENT LATCH	1
		Z04, S04, ML01	HQC01 HARDWARE	3/2
PACKED TOGETHER		S03/ML01	M6*10	5
		FMZ	FLAT MOUNT BRACKETS	4
		602A-SPACER	100 mm / 4"	4

(GRA-ELE-4X) GRANDIO ELEMENT 4' EXTENSION PANEL PACKING LIST

GRAPHIC	PART #	SIZE/LOCATION	WIDTH	HEIGHT 1	HEIGHT 2	QTY
	Y7	SIDE PANEL	578 mm / 22 3/4"	1450 mm / 57 1/16"		4
	Y8	ROOF PANEL	578 mm / 22 3/4"	1109 mm / 43 5/8"		3
	Y10	ROOF VENT PANEL	578 mm / 22 3/4"	486 mm / 19 1/8"		1
	Y9	UNDER ROOF VENT PANEL	578 mm / 22 3/4"	570 mm / 22 3/8"		1

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 warranted 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 or 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.



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OR
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