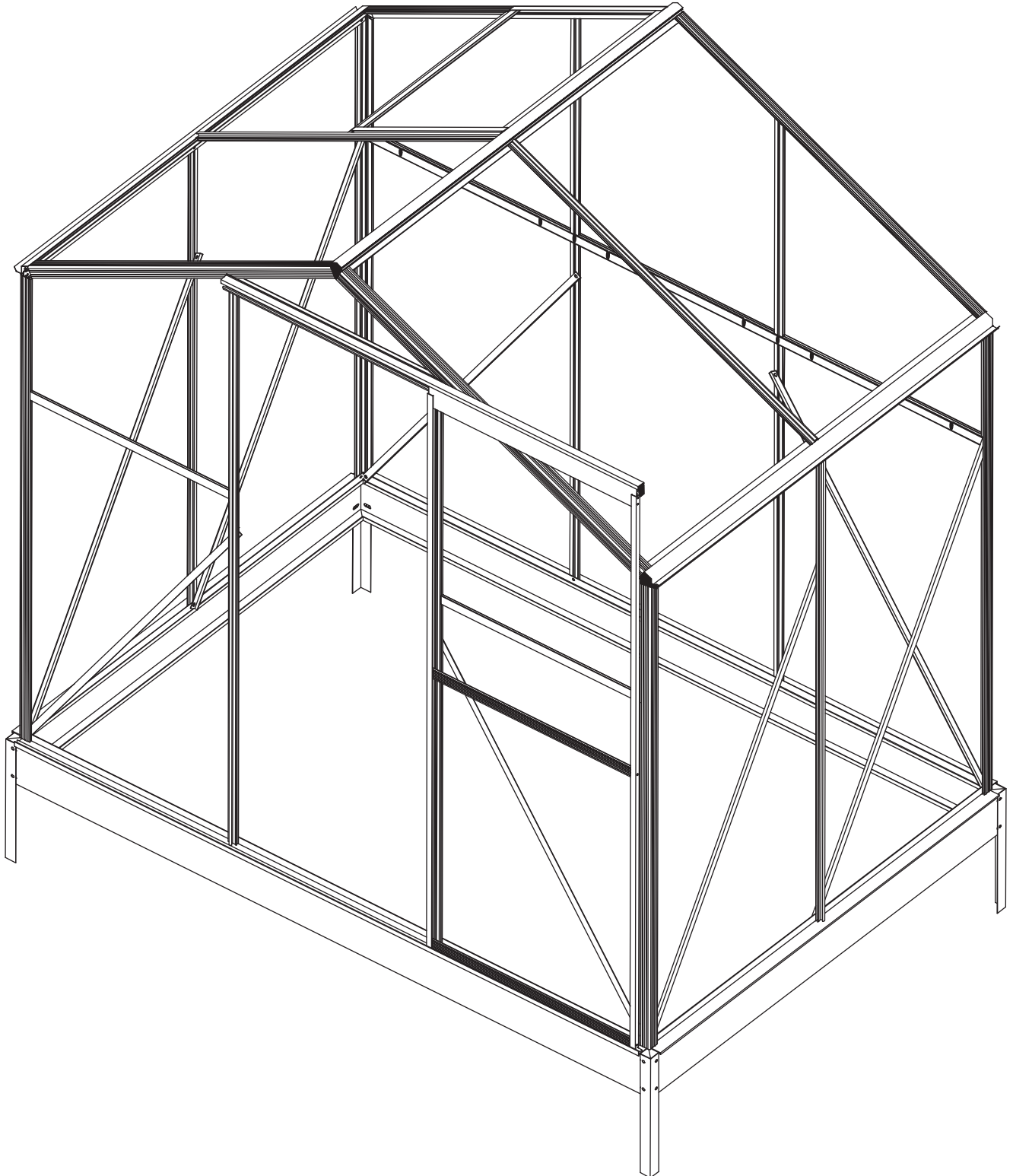


# **Assembly Manual**

for Polycarbonate Greenhouses

## **4 x 6 Greenhouse**



# Assembly Manual

for Polycarbonate Greenhouses

## 4 x 6 Greenhouse

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## **INTRODUCTION**

### **CONGRATULATIONS**

Congratulations on purchasing a Greenhouse. Please read the assembly manual and familiarise yourself with the parts and steps before assembling your Greenhouse.

### **NOTICE**

It will take at least two adults about three hours to assemble the greenhouse. Do not assemble the greenhouse if tired or under the influence of alcohol, drugs or medication. Follow the manual step by step. Keep this manual for future reference.

### **IMPORTANT**

The Greenhouse contains parts with sharp edges. Handle with care.

### **WEATHER**

Do not assemble the greenhouse on a windy day.

### **USAGE**

This is a hobby greenhouse. Use it as intended only. Do not allow children or pets to play in the greenhouse.

### **WORKING AREA**

Keep bystanders, kids or pets out of the working area.

### **TOOLS**

Safety Work Gloves, Safety Goggles, Spirit Level, Tape Measure, Step Ladders, Philips Screwdriver, 8mm M5 Wrench(included), 10mm M6 Wrench(included).

## **GENERAL ADVICE**

### **POLYCARBONATE SHEETS (Panels)**

Polycarbonate sheets may scratch so be careful what you clean them with.

Do not use solvent cleaners to clean the sheets.

Polycarbonate sheets have sharp edges. Use safety work gloves while handling them.

Remove about 2 inches of films from all edges before installing.

Use the sheets as intended.

Remove all films after the construction is completed.

The UV-protected side of the sheet is covered with a layer of opal white film and must face the sun.

## BASE

As per your choice, you may receive a greenhouse with or without a pre-fabricated base kit. Either way, this greenhouse must be secured to a firm base.

The Base must be level and square.

Before assembling the greenhouse, you must prepare a proper foundation. Two foundation options are provided in this manual. The concrete foundation option is recommended for a stronger installation.

## SITE SELECTION

The greenhouse should be placed in an area that receives direct sunlight and gets shielded from wind.

The surface must be level.

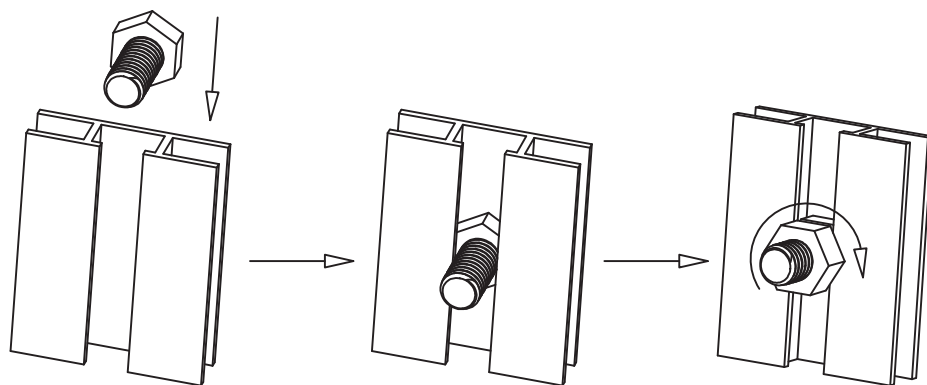
## ABOUT THIS MANUAL

### LEGENDS

**A Steps.** Follow the steps in alphabetic order, from Step A to Step B, etc.

**F1 Part No.** Each part is labeled with its Part No.

## BOLT INSERTION



Several steps in this manual involve inserting F4 Bolts into the groove of Aluminum profiles as a preparation for further installation. Diagrams above illustrate how to use such inserted bolts.

## F4 BOLTS AND NUTS

Part No. F4 refers to both the bolt and the nut. In some steps only the bolt or the nut will be used and in other steps the whole set will be used. Check the specific Part List in each step.



**SEALING**

Sealing the greenhouse by applying glue or tapes between the polycarbonate sheets and aluminum profiles will keep insects out and provide better stability against wind.

Sealant and glue gun are not included.

**PARTS**

Identify all parts using the parts list on next page and labels on the parts.

Layout each part needed for a step before working on that step.





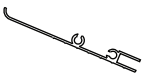
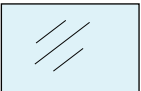





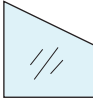

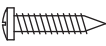
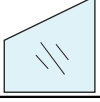

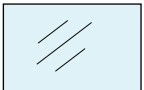


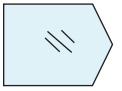

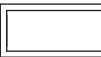



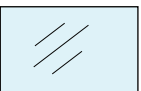


















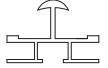

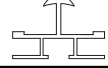















**MAINTENANCE**

Inspect the greenhouse periodically.




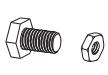
When the greenhouse needs cleaning, use a gentle detergent.

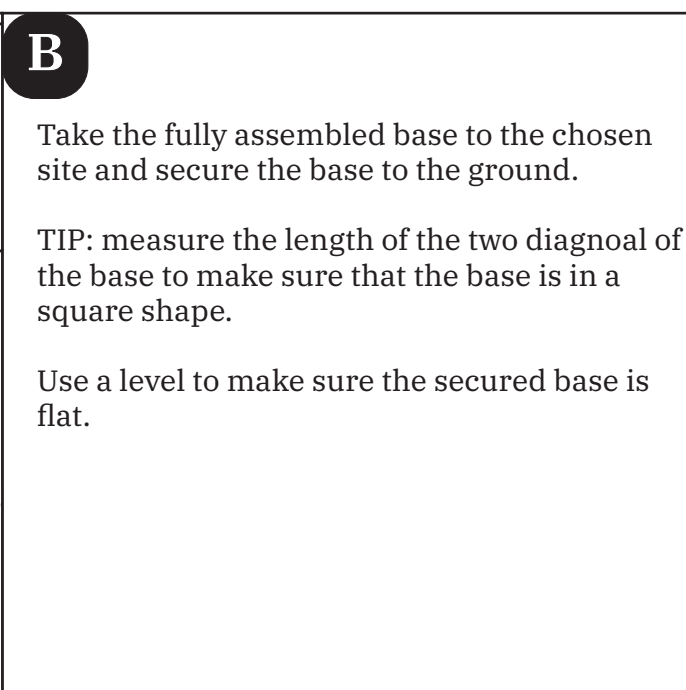
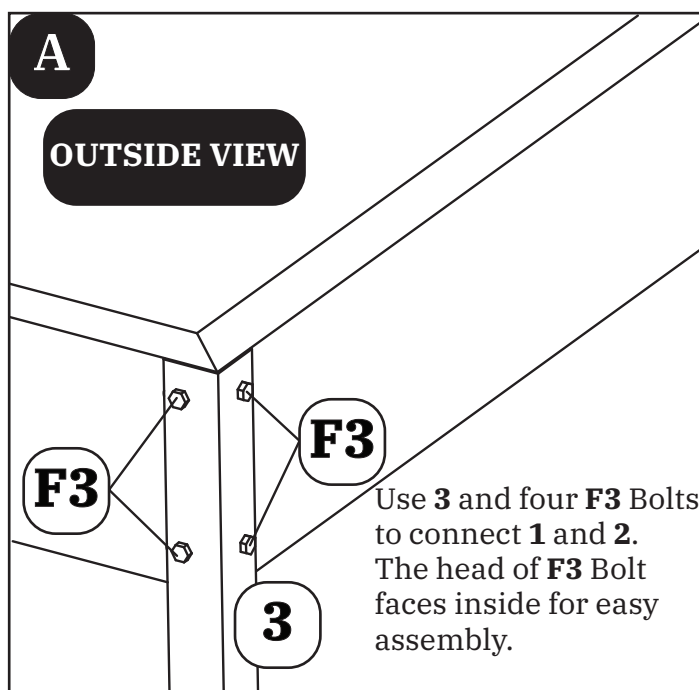
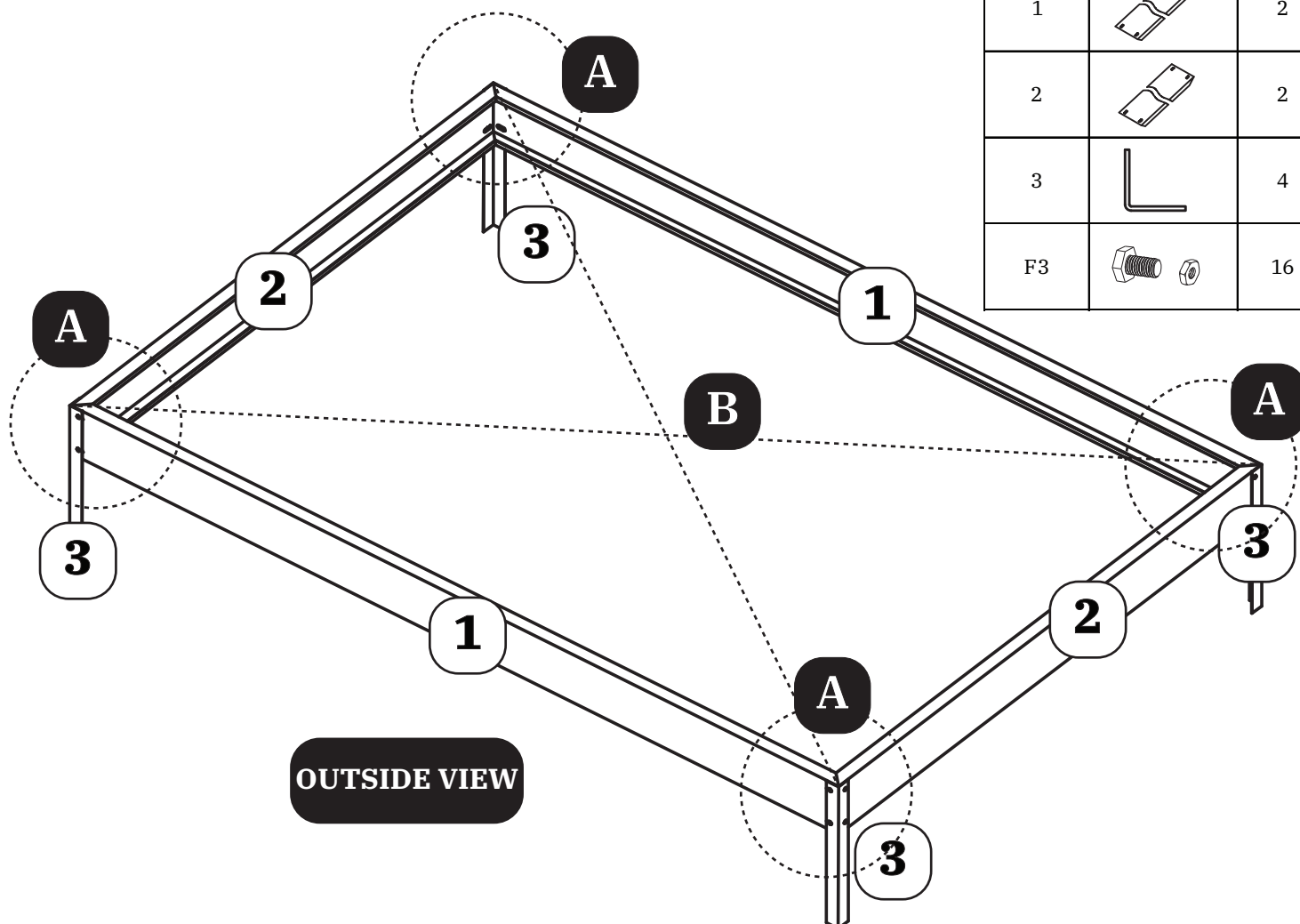
Please contact seller on your  
account for help if have any  
problem when assemble or miss  
something, we will try our best to  
help you solve the issue.

# PARTS LIST

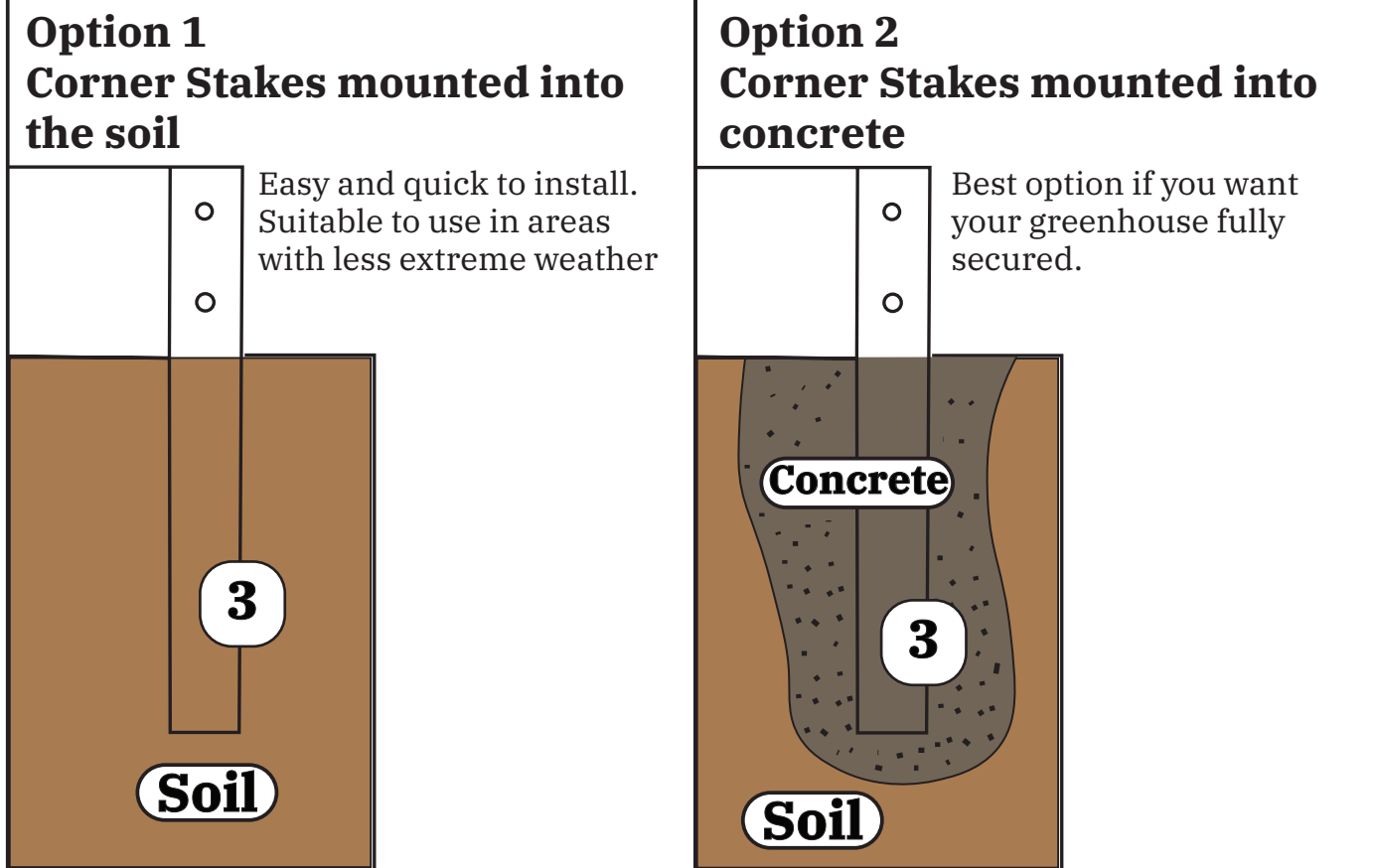
Part No.	Part	Qty.	Part No.	Part	Qty.	Part No.	Part	Qty.	Part No.	Part	Qty.
D1		1	P1		2	4		2			2
D2		1	P2		1	5		1			
D3		2	P3		4	6		1			
D4		1	P4L		2	7		4			
F1		8	P4R		2	8		2			
			P5		1	9		2			
W1		1	P6		1	10L		1			
W2		2	P7		1	10R		1			
W3		1	P8		4	12		5			
W4		1	P9		3	13		1			
S8		1	P10		1	14		1			
S9		1				15		1			
F2		4	Part No.	Part	Qty.	16		4			
F8		1	1		2	17		1			
F9		1	2		2	18		1			
			3		4	19		2			
Part No.	Part	Qty.	F3		16	20		2			
S5		2	B2		14	22		4			
S6L		2				23		4			
S6R		2	Part No.	Part	Qty.	25		2			
S7		2	F4		108	B3		6			
			F6		2	B4		4			
						B5		4			
						B6		2			
						B7		1			

## Assembling of Pre-fabricated Base

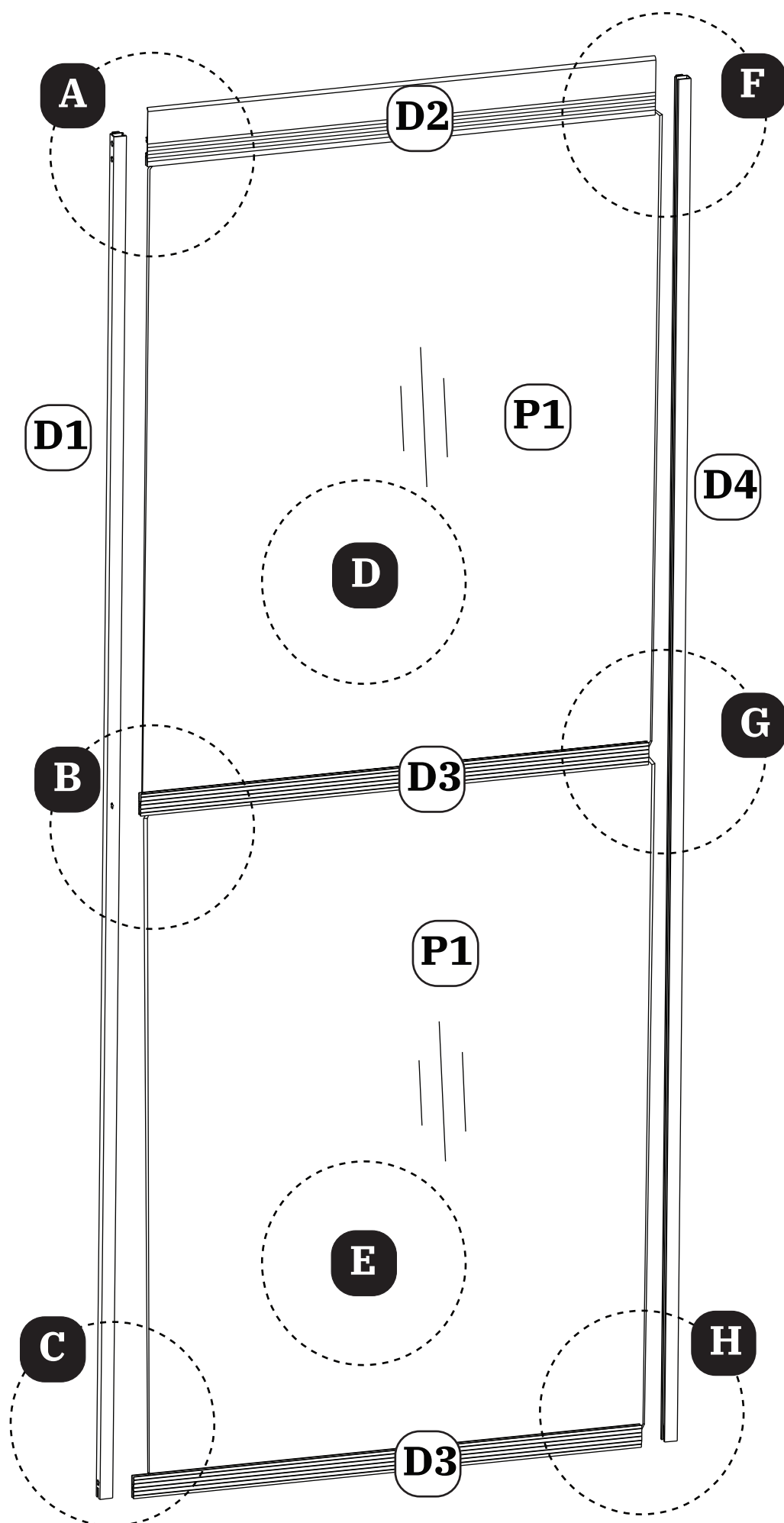
Part No.	Part	Qty.
1		2
2		2
3		4
F3		16



## Two foundation options with pre-fabricated Base



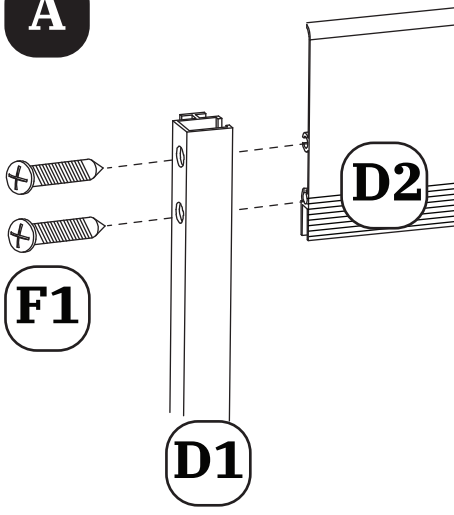
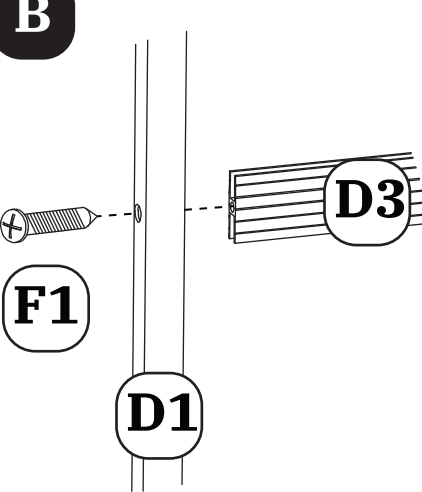
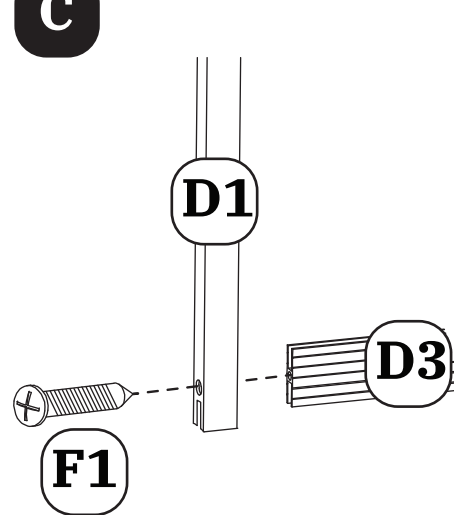


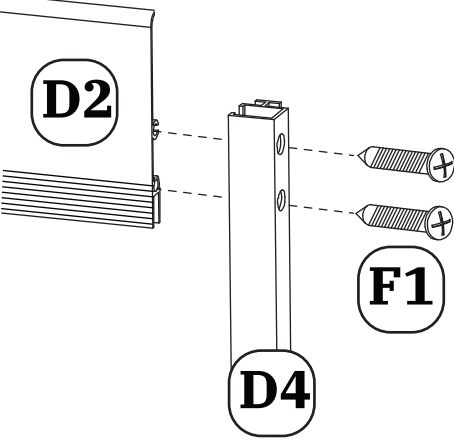
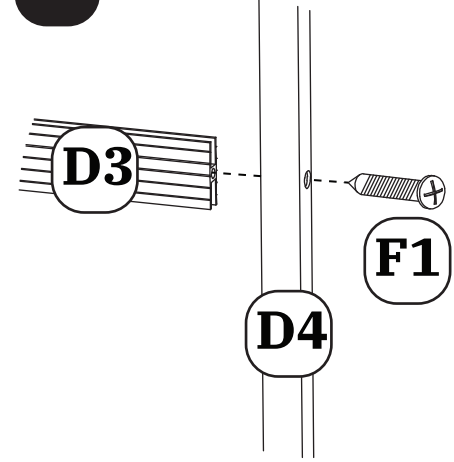
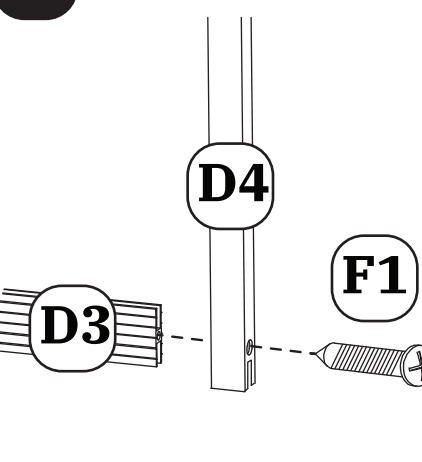
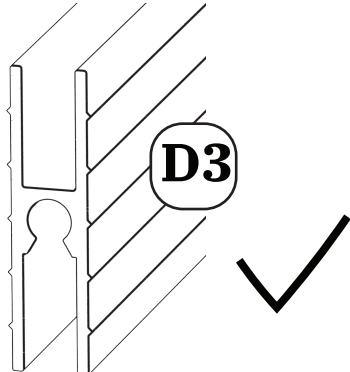
# 1. Assembling of Door



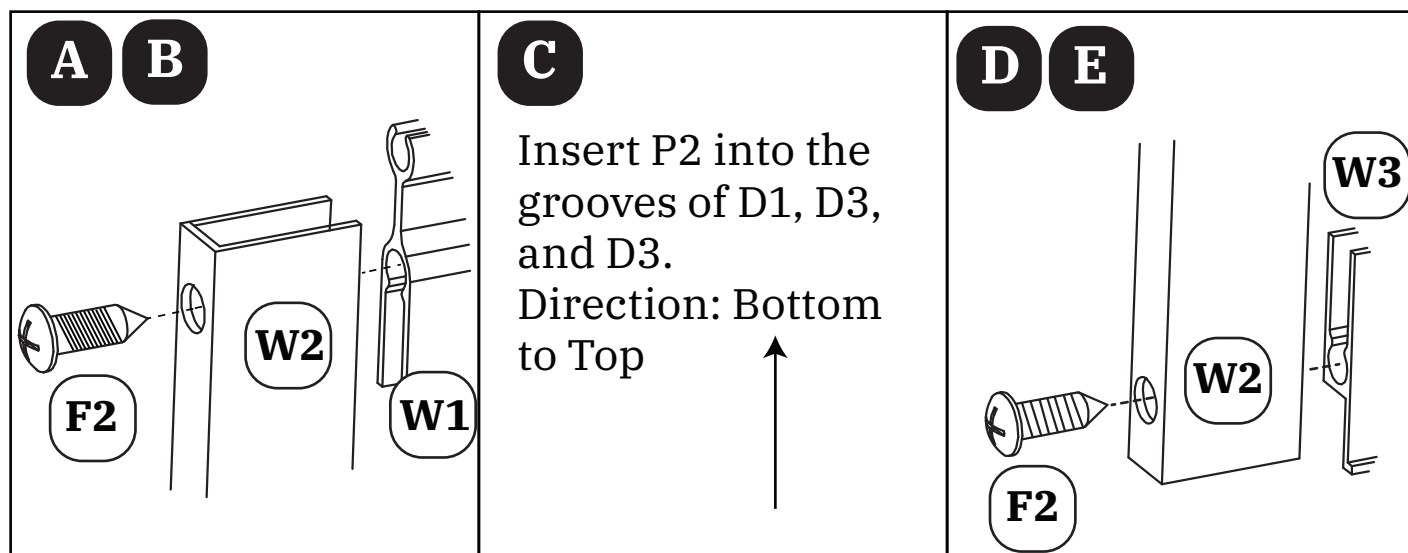
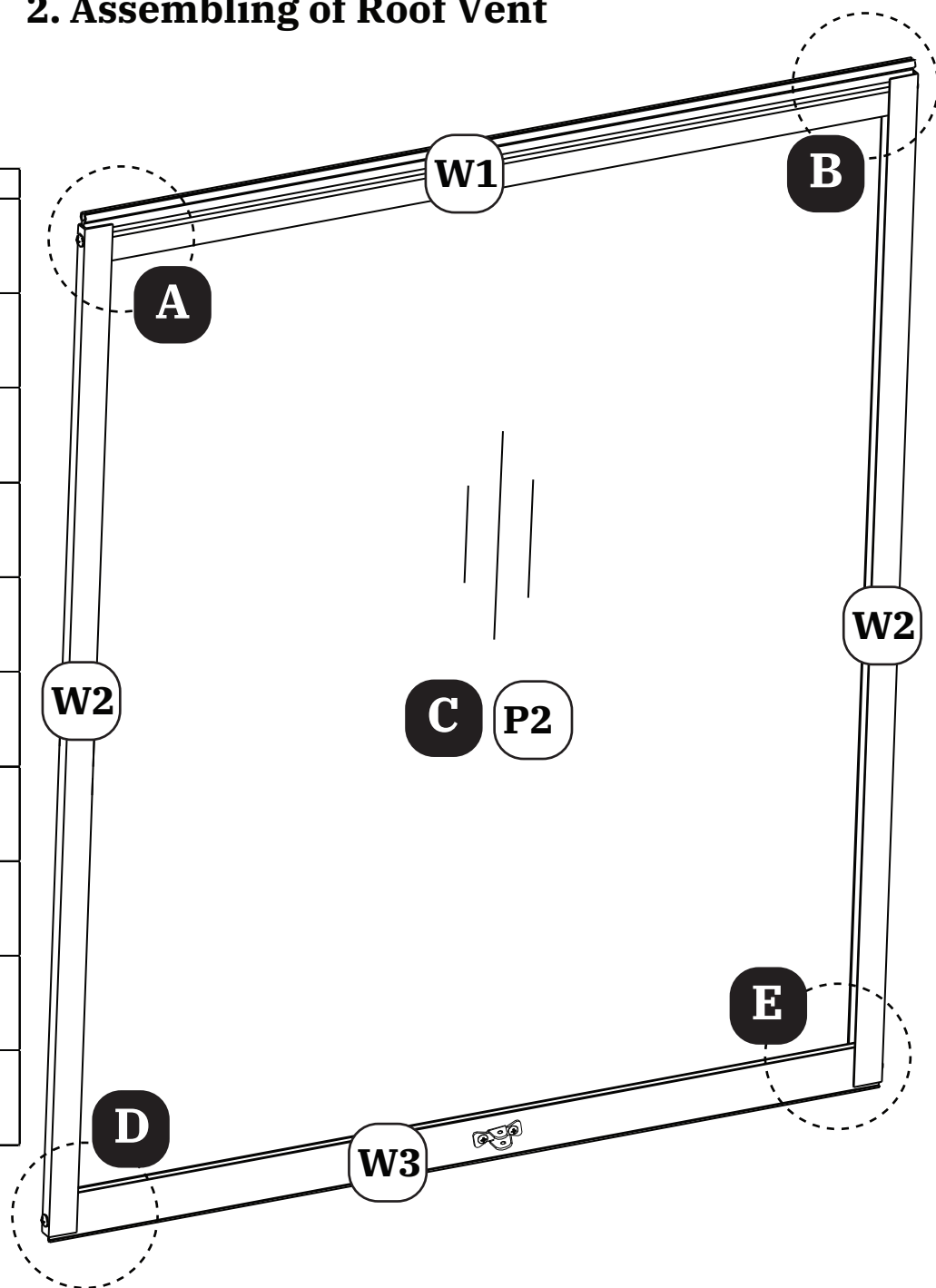
Part No.	Part	Qty.
D1		1
D2		1
D3		2
D4		1
F1		8
P1		2

**OUTSIDE VIEW**

# 1. Assembling of Door Continued

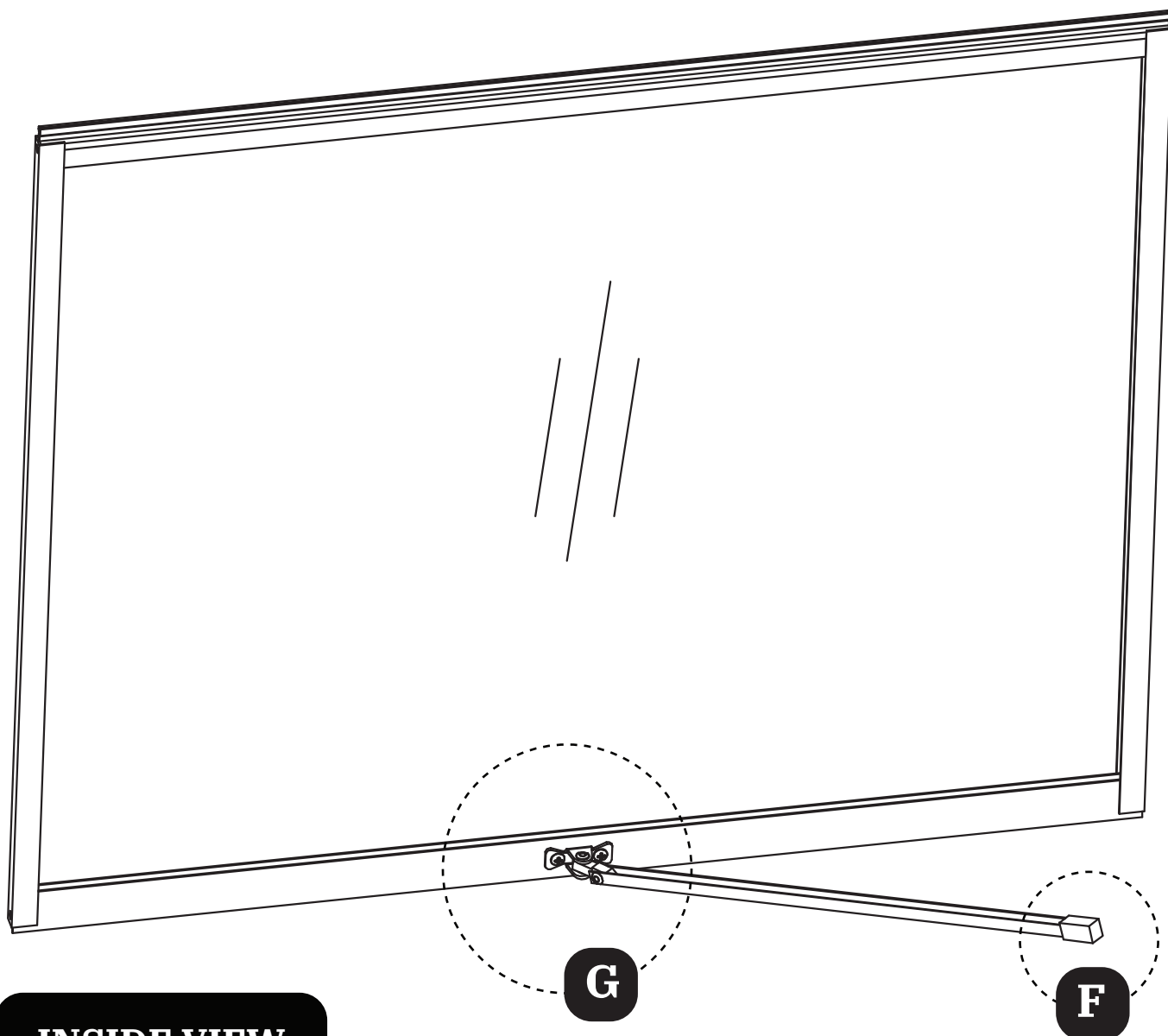
<p><b>A</b></p> 	<p><b>B</b></p> 	<p><b>C</b></p> 
<p><b>D</b></p> <p>Insert P1 into the grooves of D1, D2, and D3. Direction: Right to Left.</p> 	<p><b>E</b></p> <p>Insert P1 into the grooves of D1, D3, and D3. Direction: Right to Left.</p> 	<p><b>F</b></p> 
<p><b>G</b></p> 	<p><b>H</b></p> 	<p><b>Notice:</b></p> <ol style="list-style-type: none"> <li>1. D1 and D4 are not interchangeable.</li> <li>2. Note the orientation of D3</li> </ol> 

## INSIDE VIEW

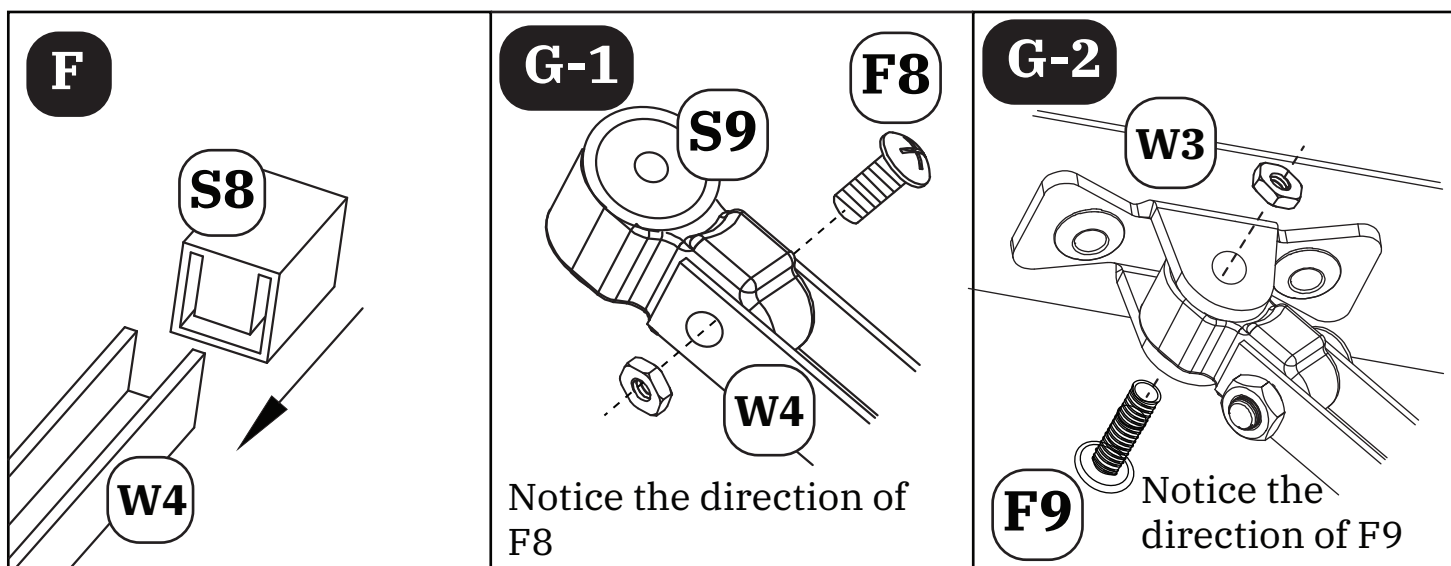










## 2. Assembling of Roof Vent Continued

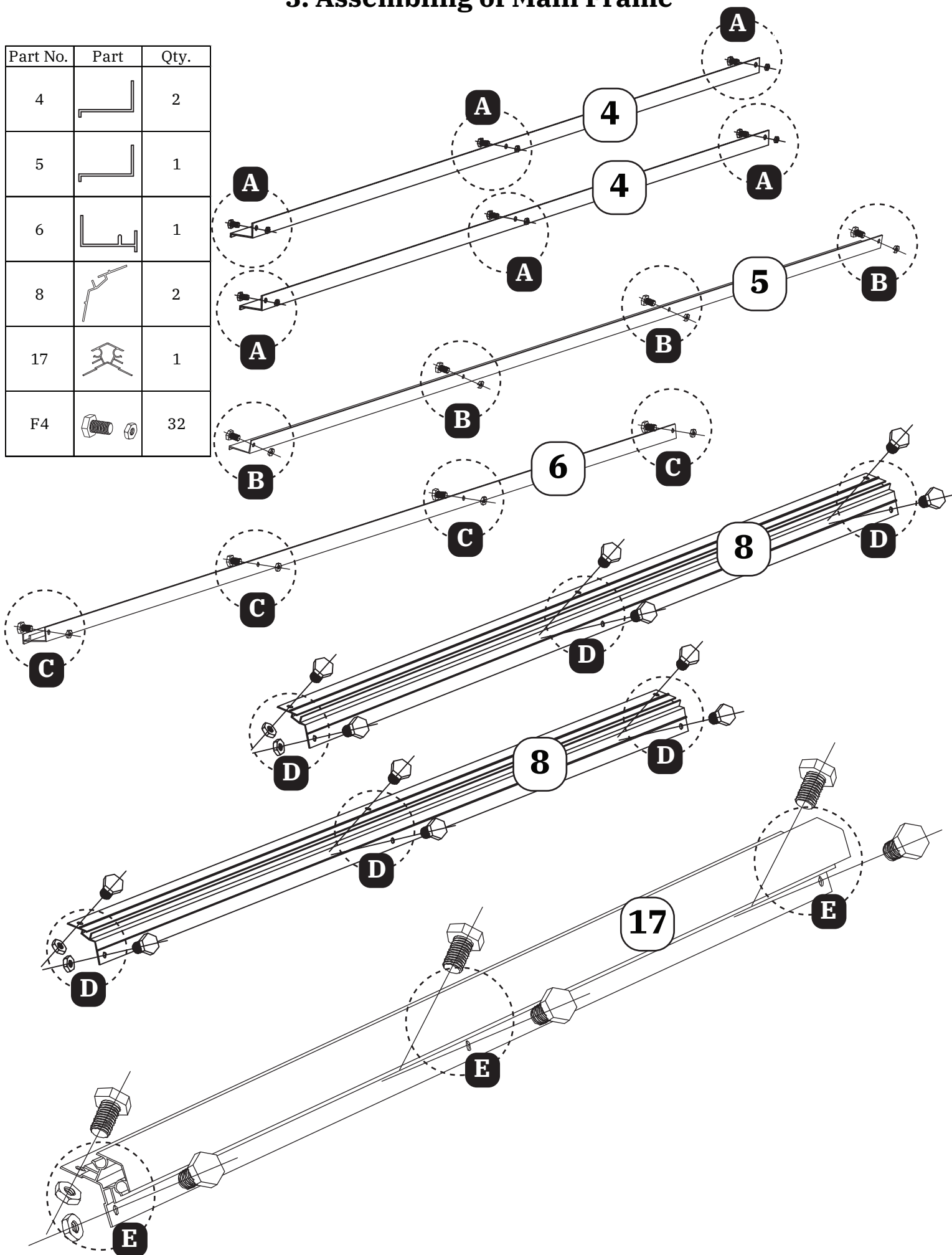


**INSIDE VIEW**

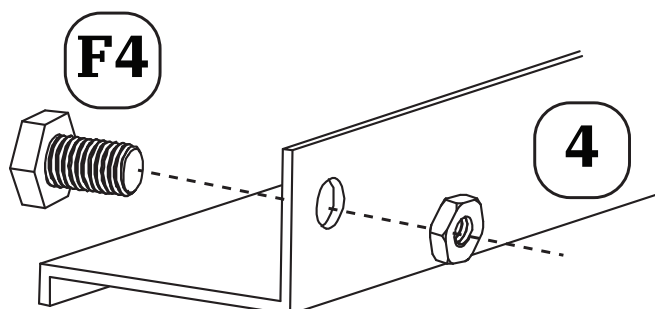


### 3. Assembling of Main Frame

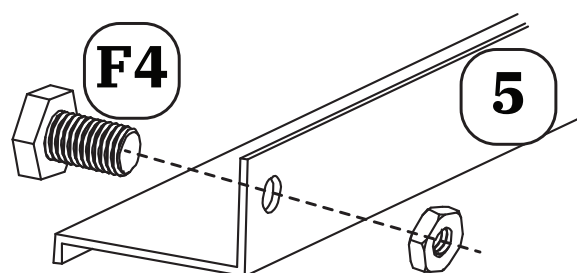
Part No.	Part	Qty.
4		2
5		1
6		1
8		2
17		1
F4		32



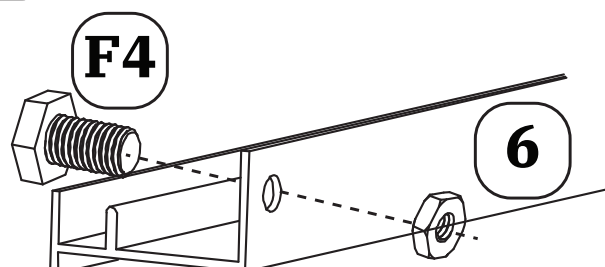
### 3. Assembling of Main Frame Continued

**A**

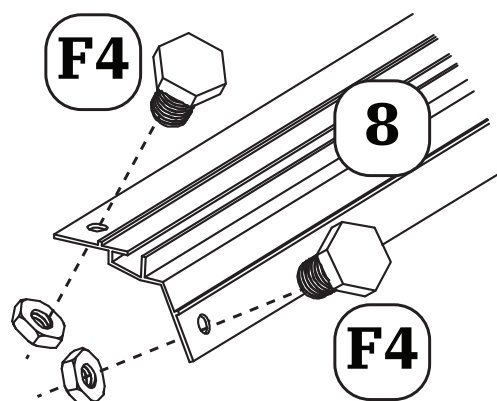
Repeat six times.

**B**

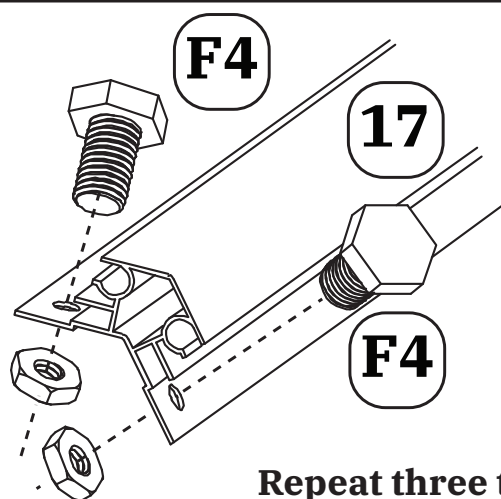
Repeat four times.

**C**

Repeat three times.

**D**

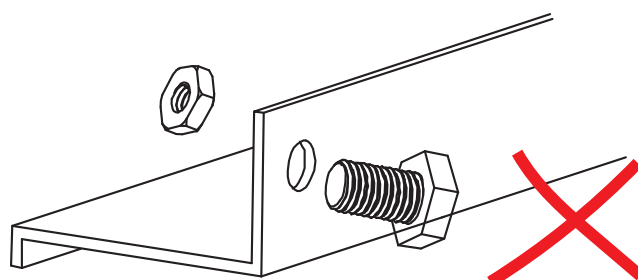
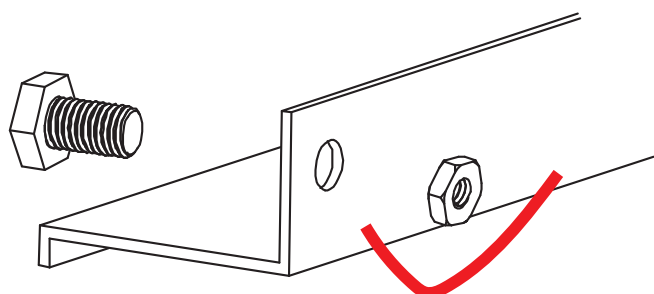
Repeat six times.

**E**

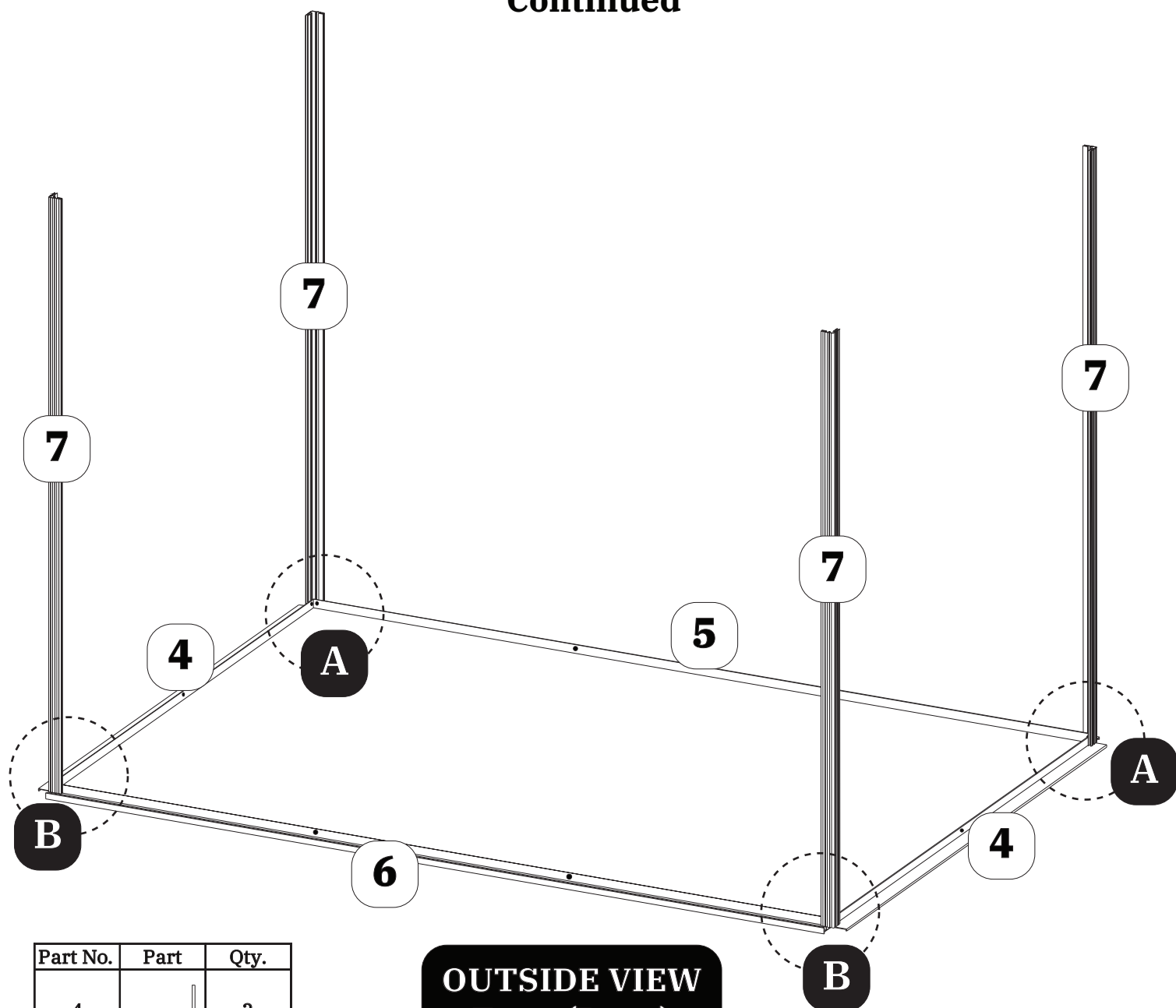
Repeat three times.

#### Notice

1. Do not tighten the nut. Only loosely screw it onto the thread.
2. Note that the orientation of the bolt and the nut cannot be changed. See the diagram below for better understanding.

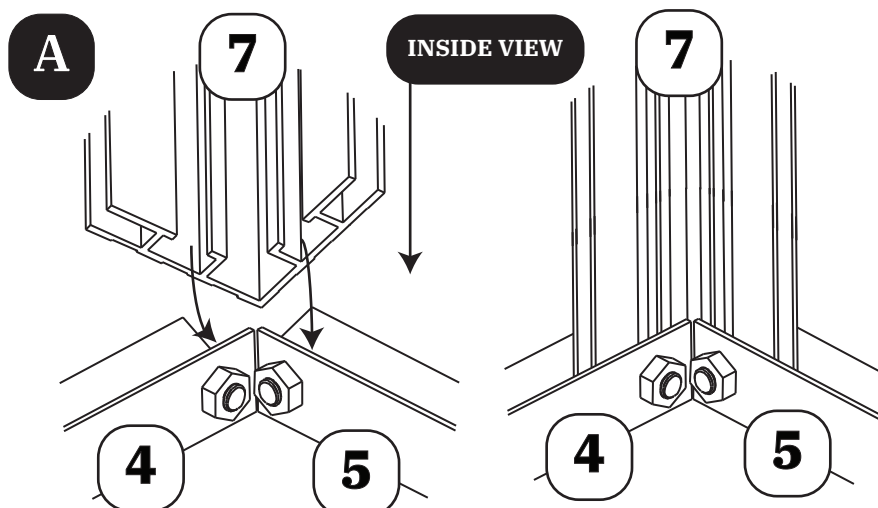


### 3. Assembling of Main Frame Continued



Part No.	Part	Qty.
4		2
5		1
6		1
7		4
10L		1
10R		1
F4		16

**OUTSIDE VIEW**  
Front(Door)

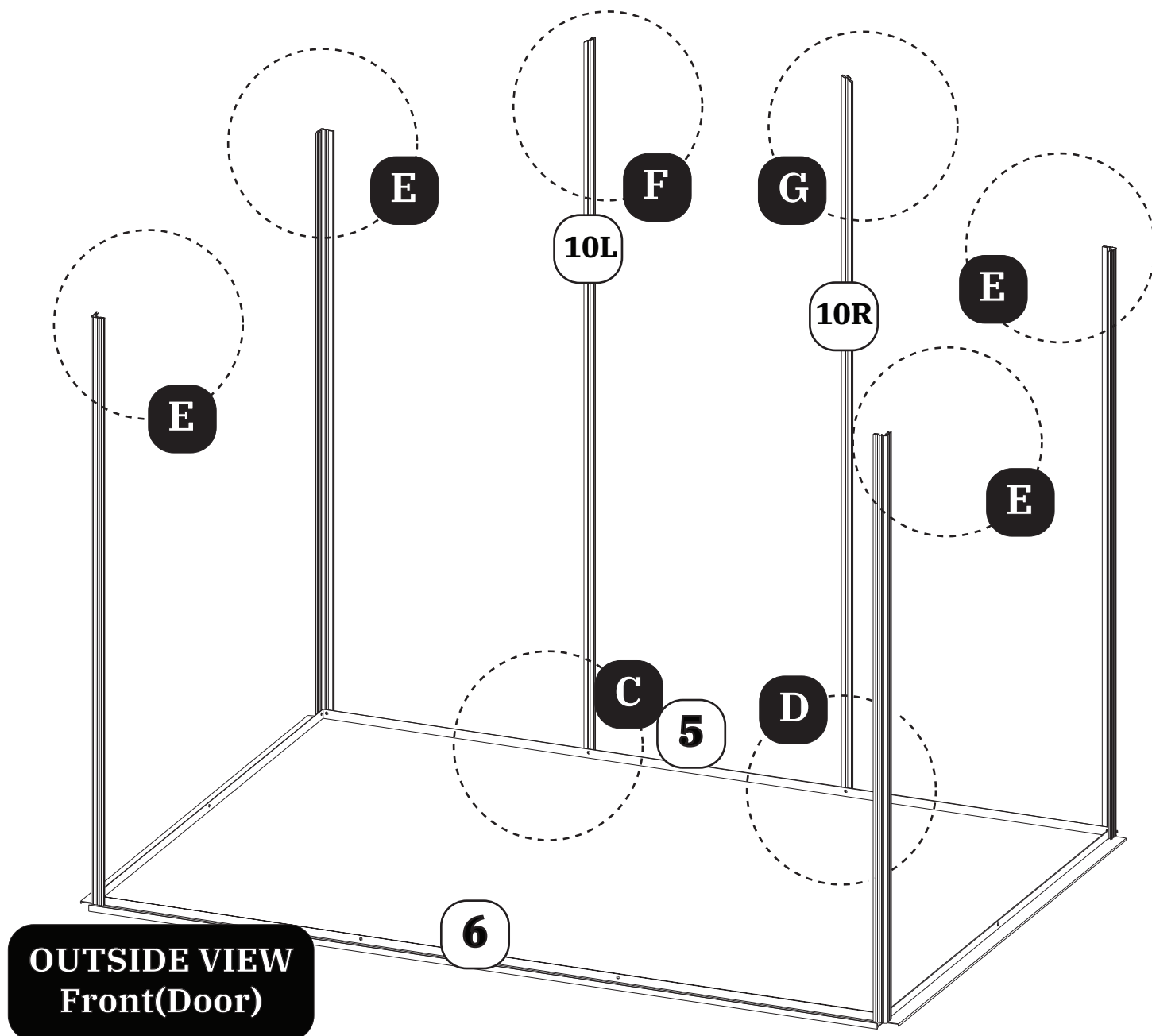
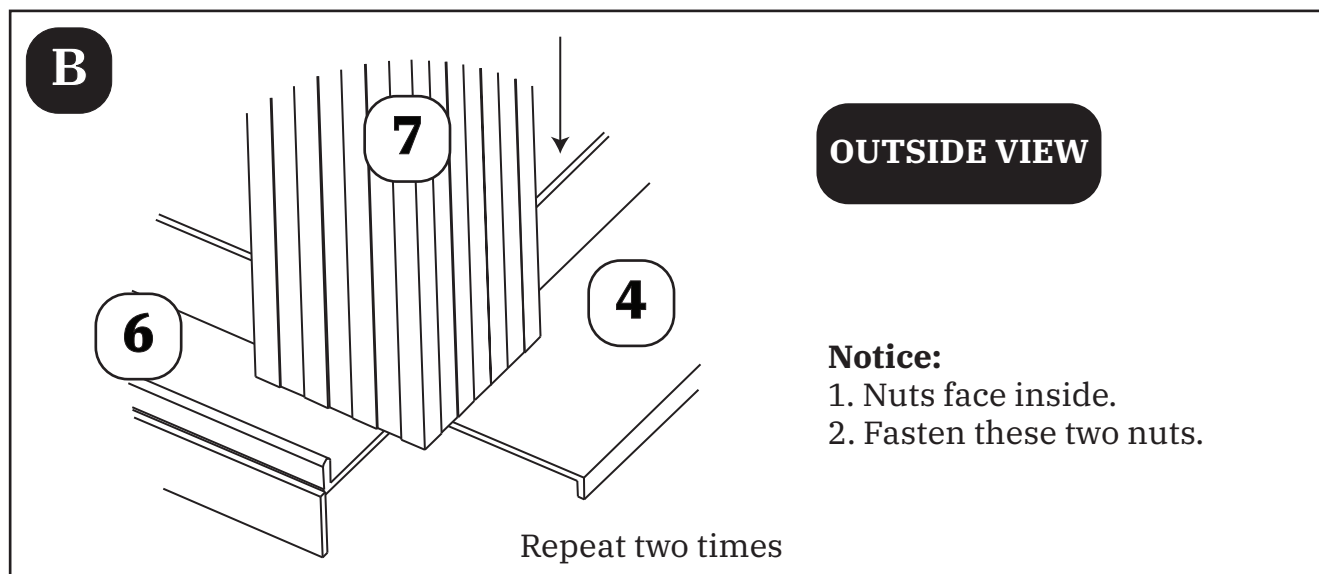


Repeat two times

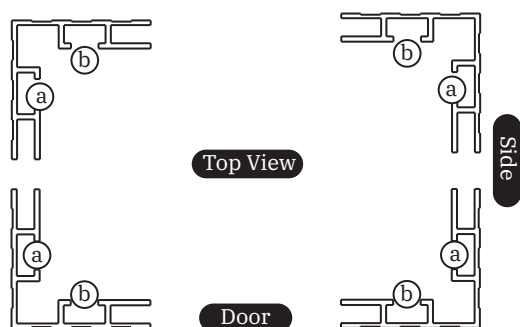
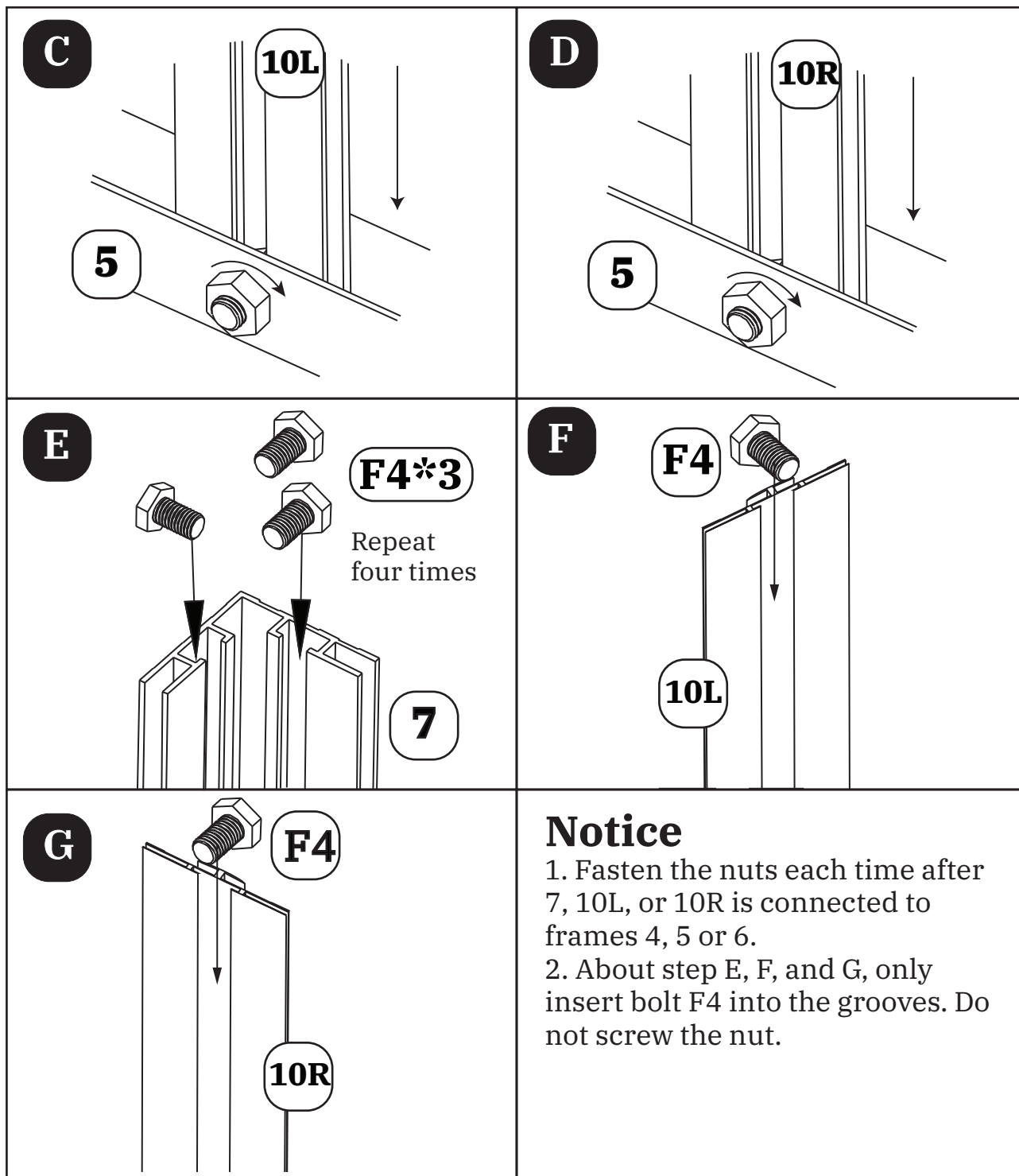
**Notice:** 1. Nuts face inside.

2. Fasten these two nuts.

### 3. Assembling of Main Frame Continued

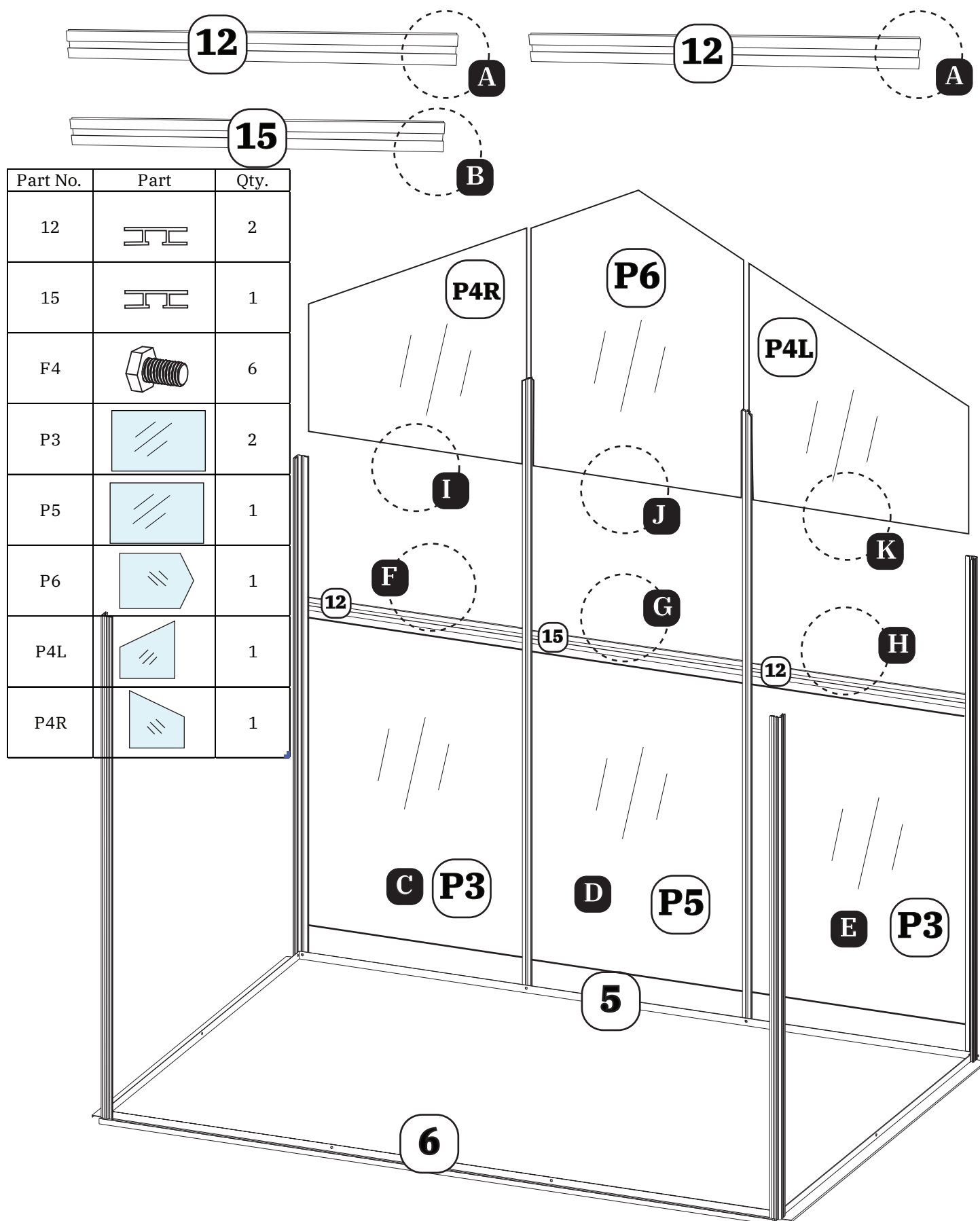


### 3. Assembling of Main Frame Continued



3. About step E, note that each 7 has two grooves where F4 bolts will be inserted into. The groove facing either side wall of the greenhouse is **groove a**, and the one facing either the door or the back wall is **groove b**. In step E, insert 2 Bolt F4 into each **groove b**, and one Bolt F4 into each **groove a**.

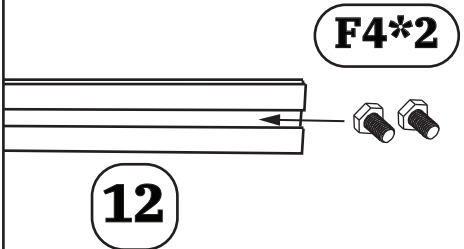
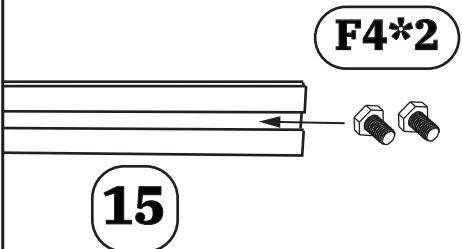
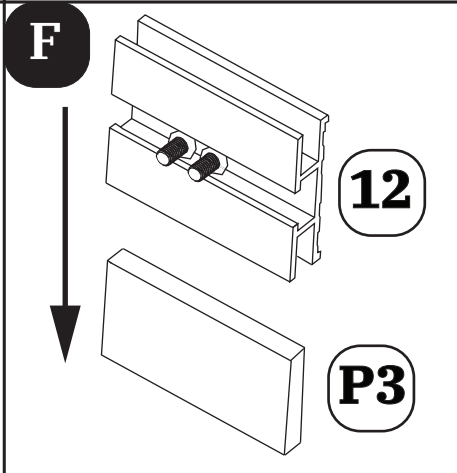
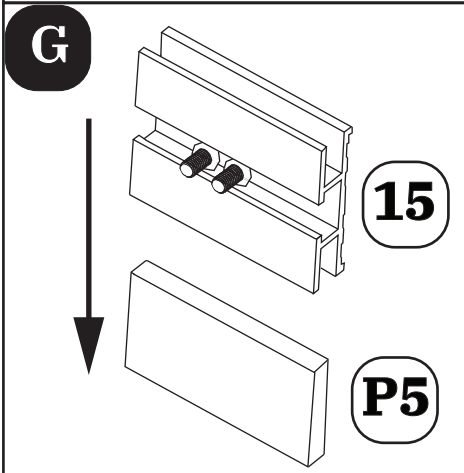
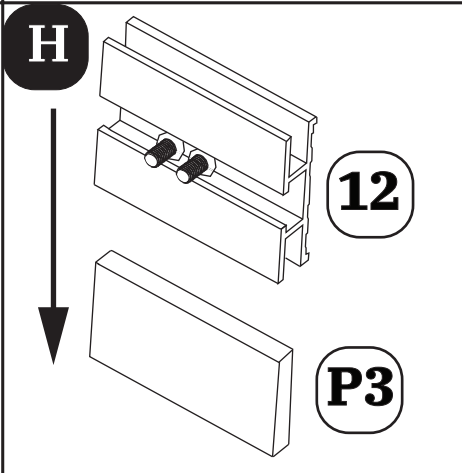
## 4. Assembling of Backwall





**OUTSIDE VIEW**  
**Front(Door)**

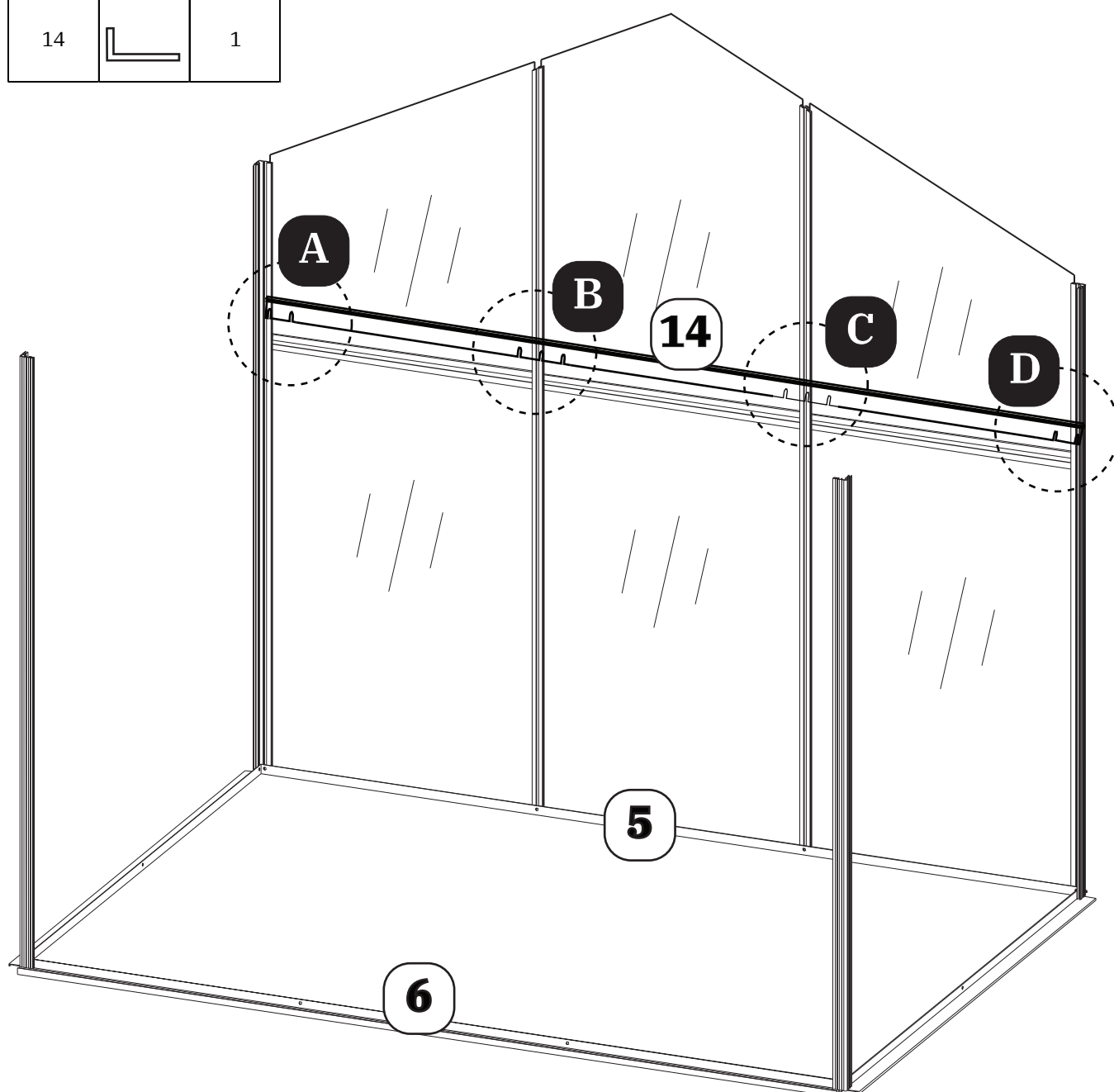


## 4. Assembling of Backwall Continued

<p><b>A</b></p>  <p>Repeat two times</p>	<p><b>B</b></p> 	<p><b>C</b></p> <p>Insert <b>P3</b> into grooves of <b>7</b>, <b>10L</b> till <b>P3</b> rests on <b>5</b>.</p>
<p><b>D</b></p> <p>Insert <b>P5</b> into grooves of <b>10L</b>, <b>10R</b> till <b>P5</b> rests on <b>5</b>.</p>	<p><b>E</b></p> <p>Insert <b>P3</b> into grooves of <b>10R</b>, <b>7</b> till <b>P3</b> rests on <b>5</b>.</p>	<p><b>F</b></p> 
<p><b>G</b></p> 	<p><b>H</b></p> 	<p><b>I</b></p> <p>Insert <b>P4R</b> into grooves of <b>7</b>, <b>10L</b> till <b>P4R</b> goes into the top groove of <b>12</b>.</p>
<p><b>J</b></p> <p>Insert <b>P6</b> into grooves of <b>10L</b>, <b>10R</b> till <b>P6</b> goes into the top groove of <b>15</b>.</p>	<p><b>K</b></p> <p>Insert <b>P4L</b> into grooves of <b>10R</b>, <b>7</b> till <b>P4L</b> goes into the top groove of <b>12</b>.</p>	<p><b>Notice</b> Have a person buttress the back wall.</p>

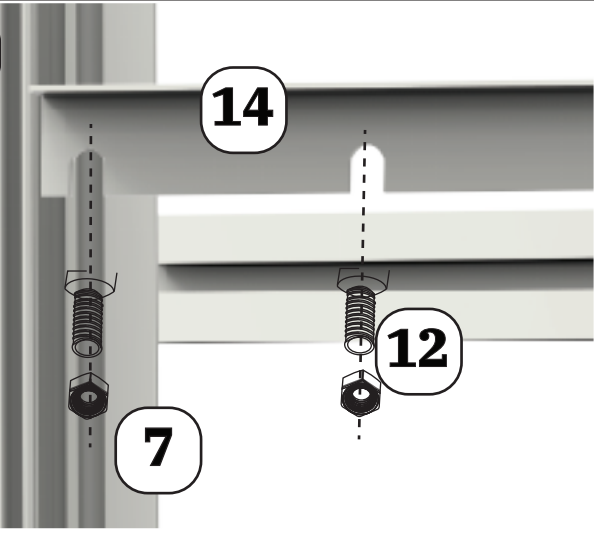
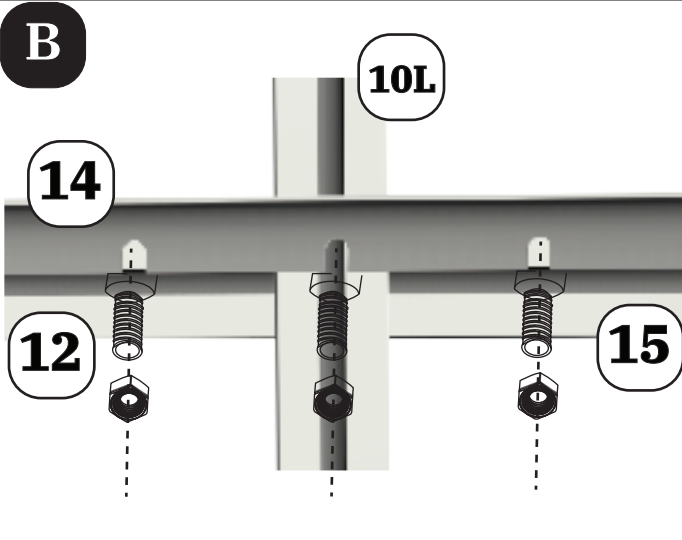
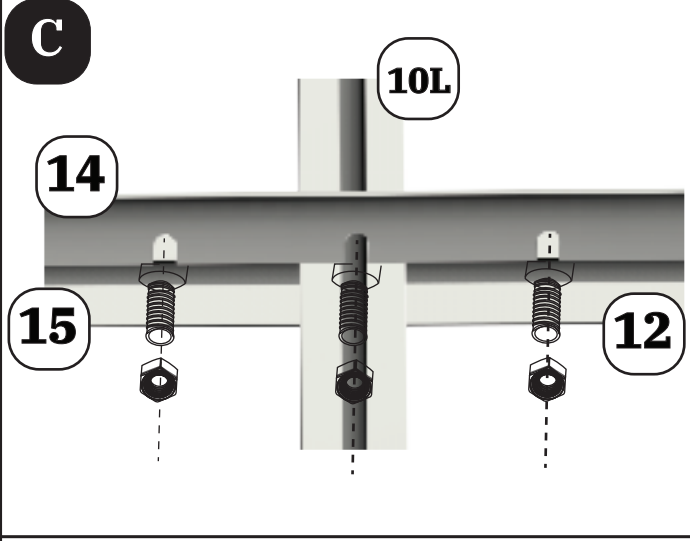
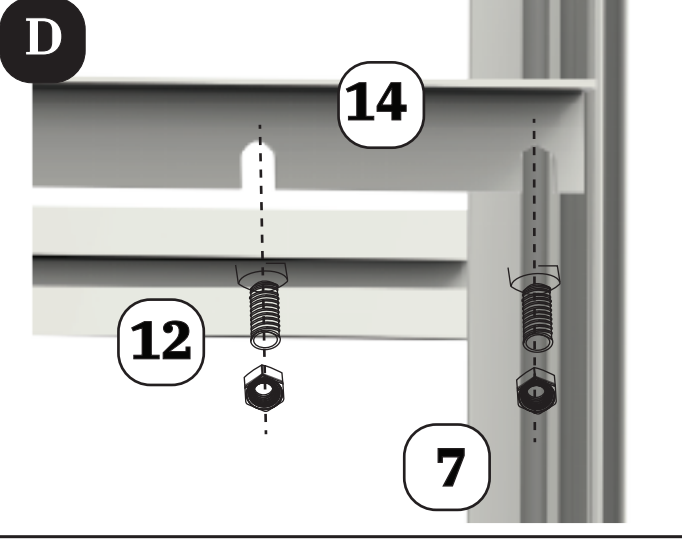
## 4. Assembling of Backwall Continued

Part No.	Part	Qty.
F4		10
14		1





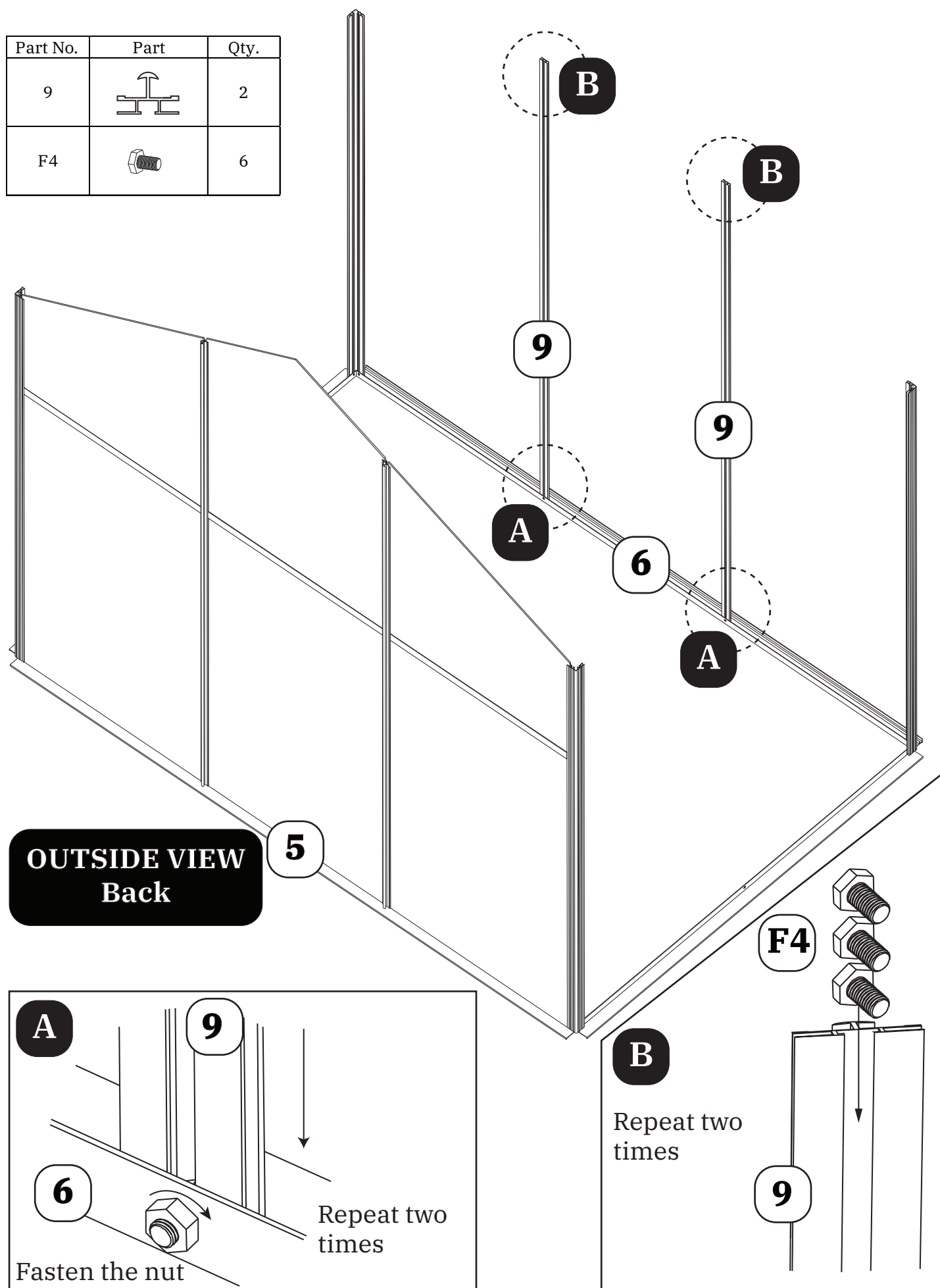
**OUTSIDE VIEW**  
**Front(Door)**

## 4. Assembling of Backwall Continued



<p><b>A</b></p> 	<p><b>B</b></p> 
<p><b>C</b></p> 	<p><b>D</b></p> 
<p><b>Notice 1</b></p> <p>1. About Step A or D, two <b>Bolt F4</b> will be used. One comes from <b>7</b> and the other from <b>12</b>. Both of these two bolts were inserted into respective grooves in previous steps. You do not need new bolts here, only the nuts.</p> <p>2. Fasten the nuts.</p>	<p><b>Notice 2</b></p> <p>1. About Step B or C, three <b>Bolt F4</b> will be used. One from <b>12</b>, one comes from <b>10L/10R</b>, and the rest from <b>15</b>. All of these bolts were inserted into respective grooves in previous steps. You do not need new bolts here, only the nuts.</p> <p>2. Fasten the nuts.</p>

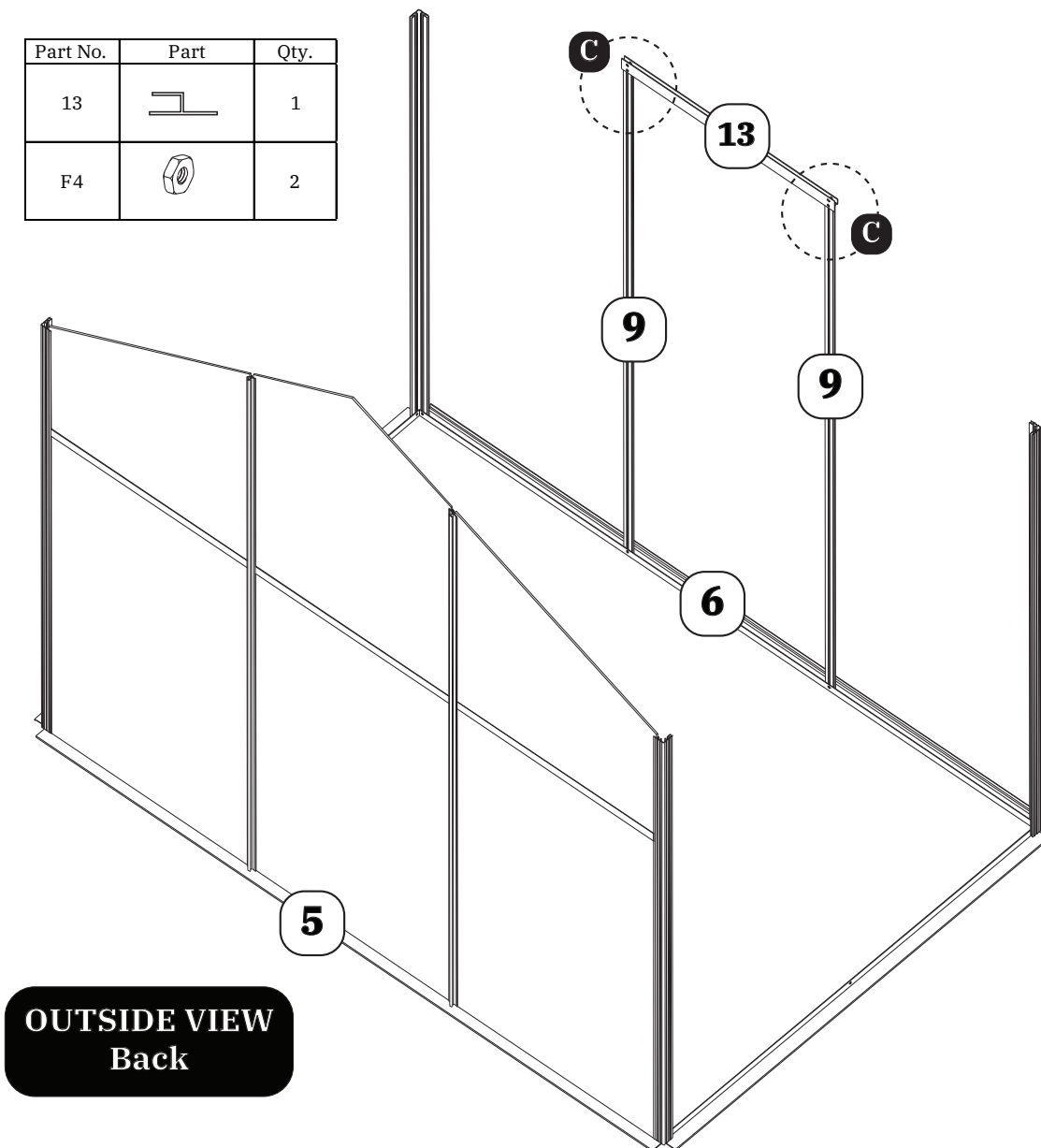
## 5. Assembling of Front wall

Part No.	Part	Qty.
9		2
F4		6

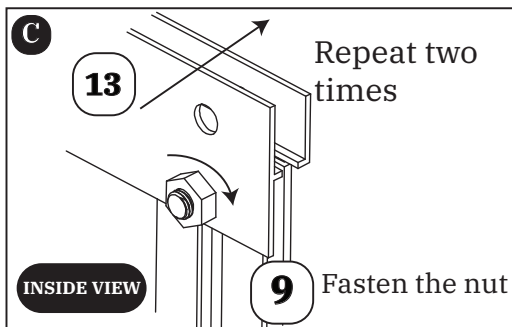


## 5. Assembling of Front wall Continued

Part No.	Part	Qty.
13		1
F4		2



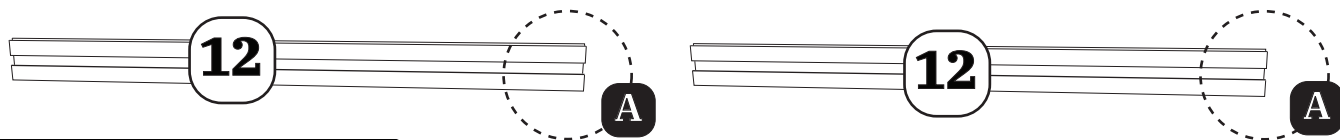
**OUTSIDE VIEW**  
Back


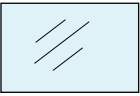






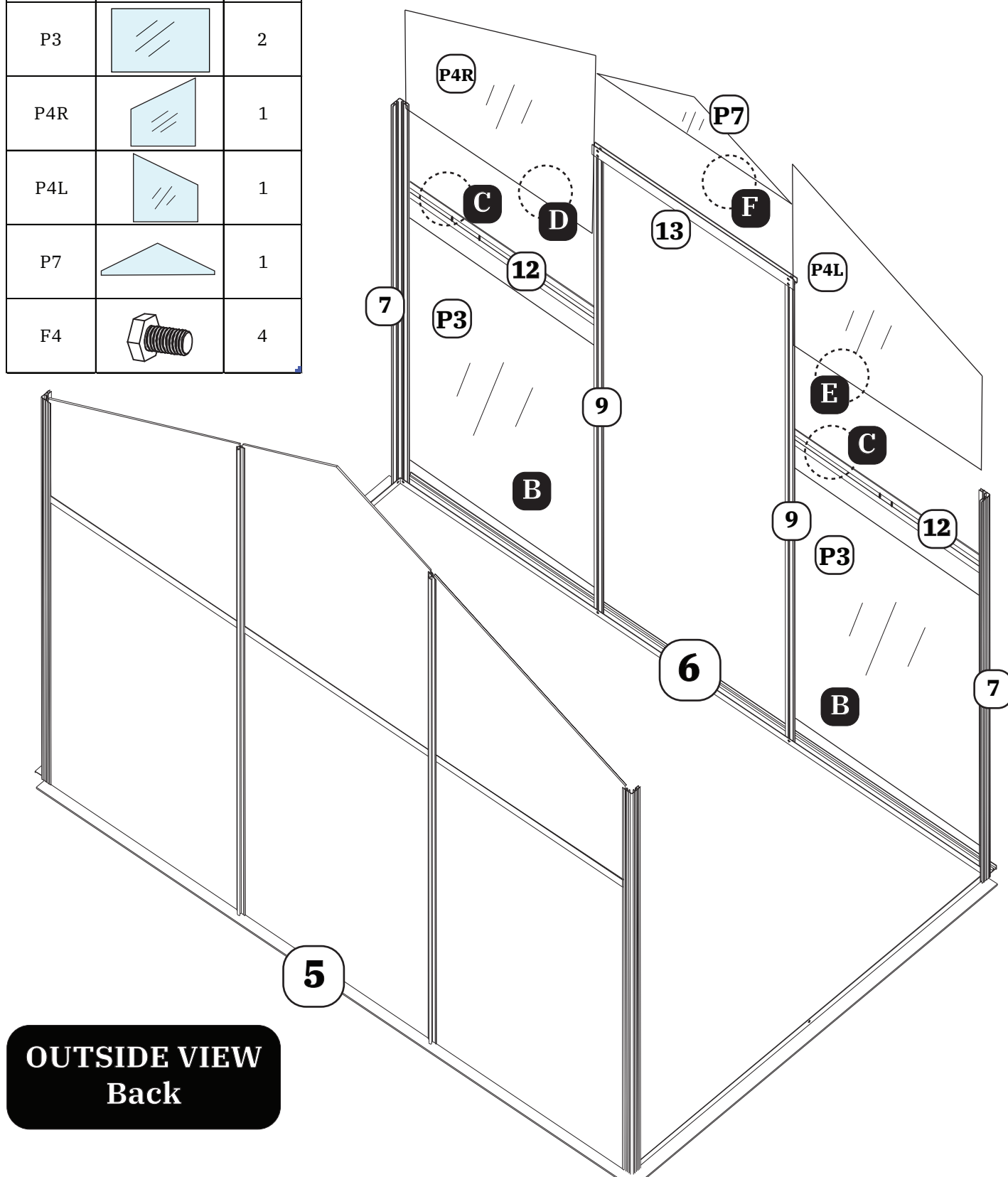
### Notice

1. About Step B, only insert **Bolt F4** into the groove. Do not screw the nut.
2. About Step C, one **Bolt F4** will be used. It comes from **9** and was inserted into **9** in Step B. You do not need new bolts here, only the nuts.
3. Note the orientation of **13**.
4. Notice that in step A and B, **9** has one of its end removed. The removed space is where **13** is rested.

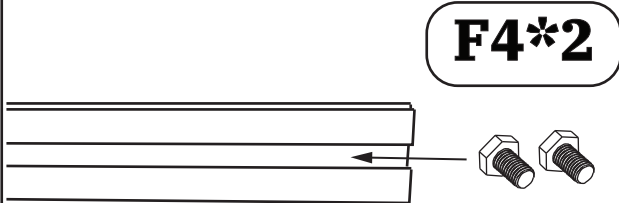
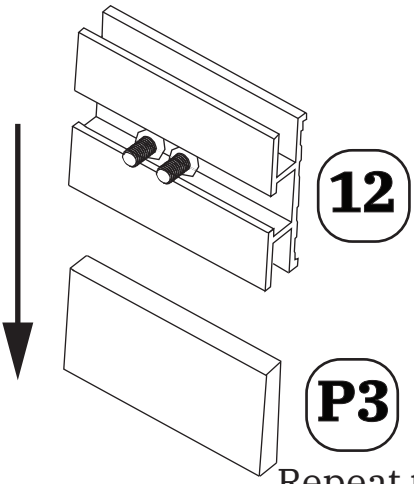
## 5. Assembling of Front wall Continued



Part No.	Part	Qty.
12		2
P3		2
P4R		1
P4L		1
P7		1
F4		4





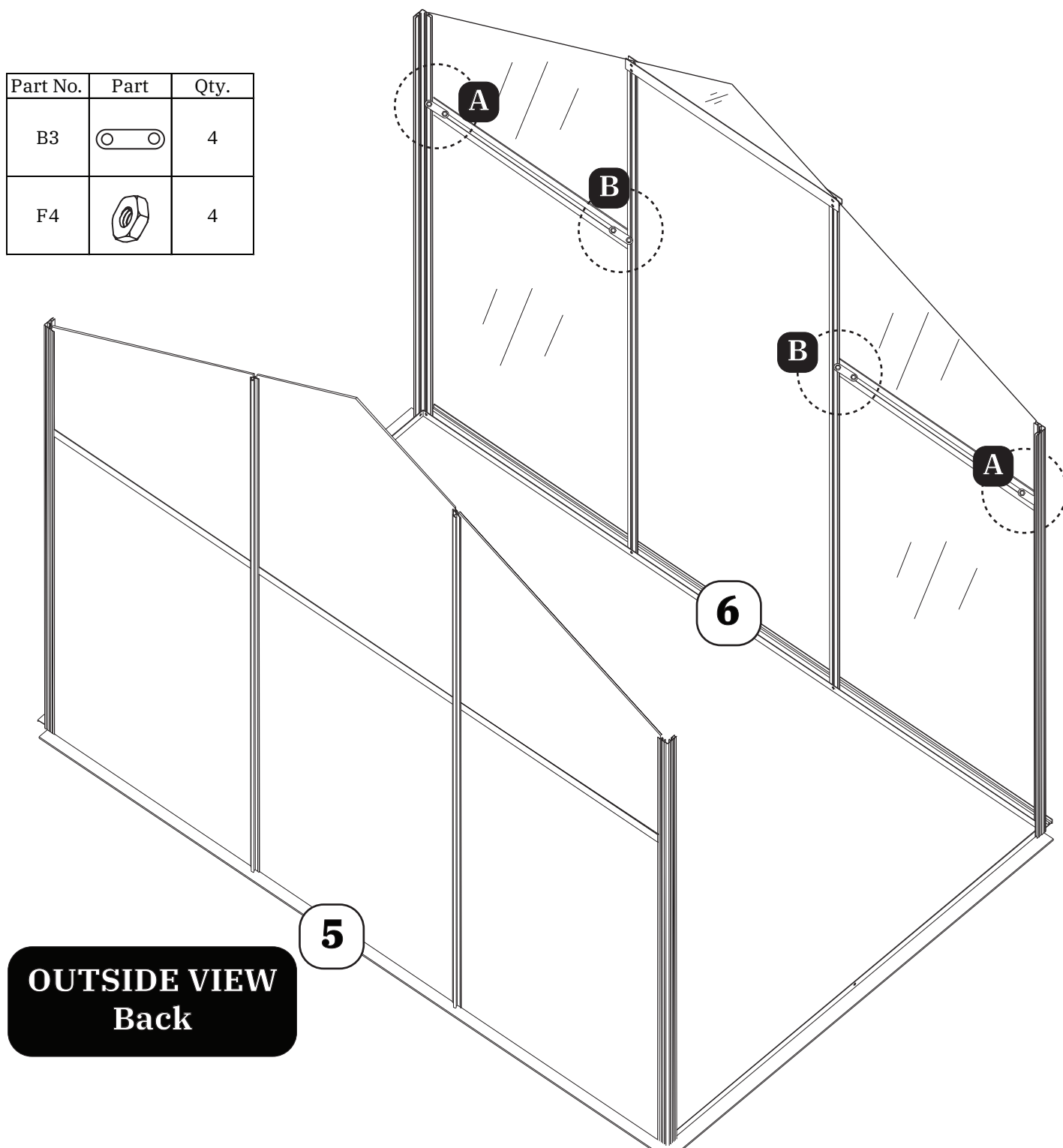
## 5. Assembling of Front wall Continued

<p><b>A</b></p>  <p><b>12</b> Only insert the bolts. Do not screw the nuts. Repeat two times</p>	<p><b>B</b></p> <p>Insert <b>P3</b> into grooves of <b>7</b> and <b>9</b> till <b>P3</b> rests on <b>6</b>.</p> <p>Repeat two times</p>
<p><b>C</b></p>  <p><b>12</b></p> <p><b>P3</b></p> <p>Repeat two times</p>	<p><b>D</b></p> <p>Insert <b>P4R</b> into grooves of <b>7</b> and <b>9</b>, till <b>P4R</b> goes into the top groove of <b>12</b>.</p>
<p><b>E</b></p> <p>Insert <b>P4L</b> into grooves of <b>7</b> and <b>9</b>, till <b>P4L</b> goes into the top groove of <b>12</b>.</p>	<p><b>F</b></p> <p>Insert <b>P7</b> into the top groove of <b>13</b>.</p> <p>Have a person or a chair to buttress the front wall.</p>



## 5. Assembling of Front wall Continued

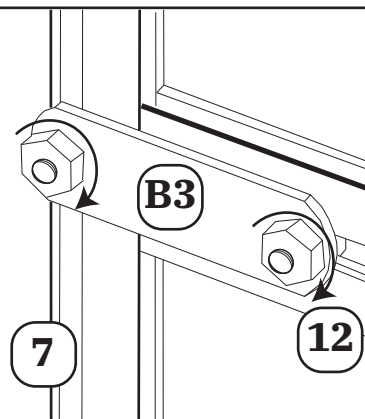
Part No.	Part	Qty.
B3		4
F4		4



**OUTSIDE VIEW**  
Back

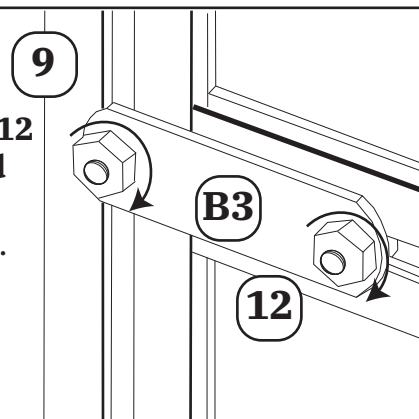
**A**

Attach **B3** to **7** and **12** using **pre-inserted Bolts F4**. Fasten the **Nuts F4**. Repeat two times.





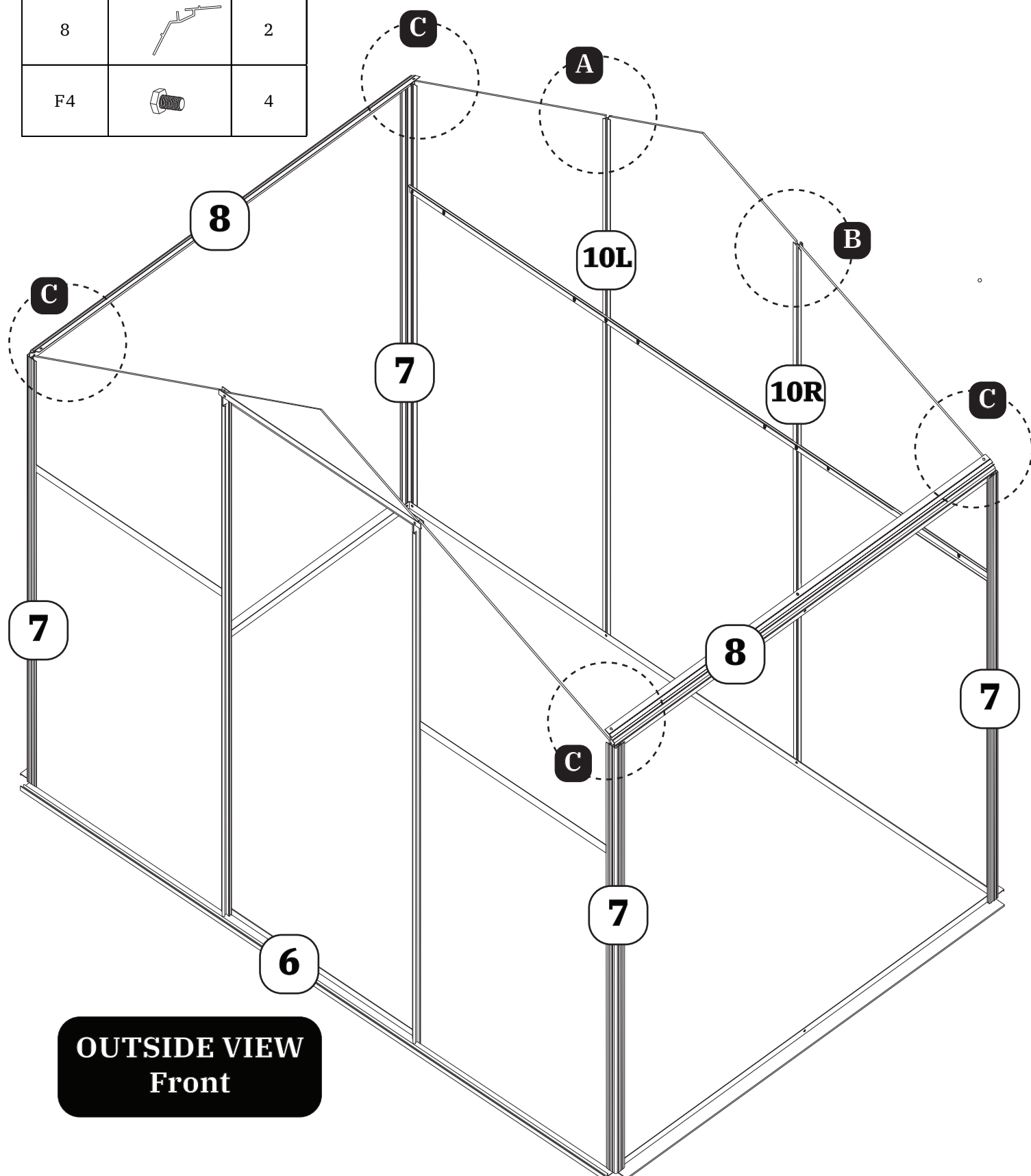
**B**

Attach **B3** to **9** and **12** using **pre-inserted Bolts F4**. Fasten the **Nuts F4**. Repeat two times.

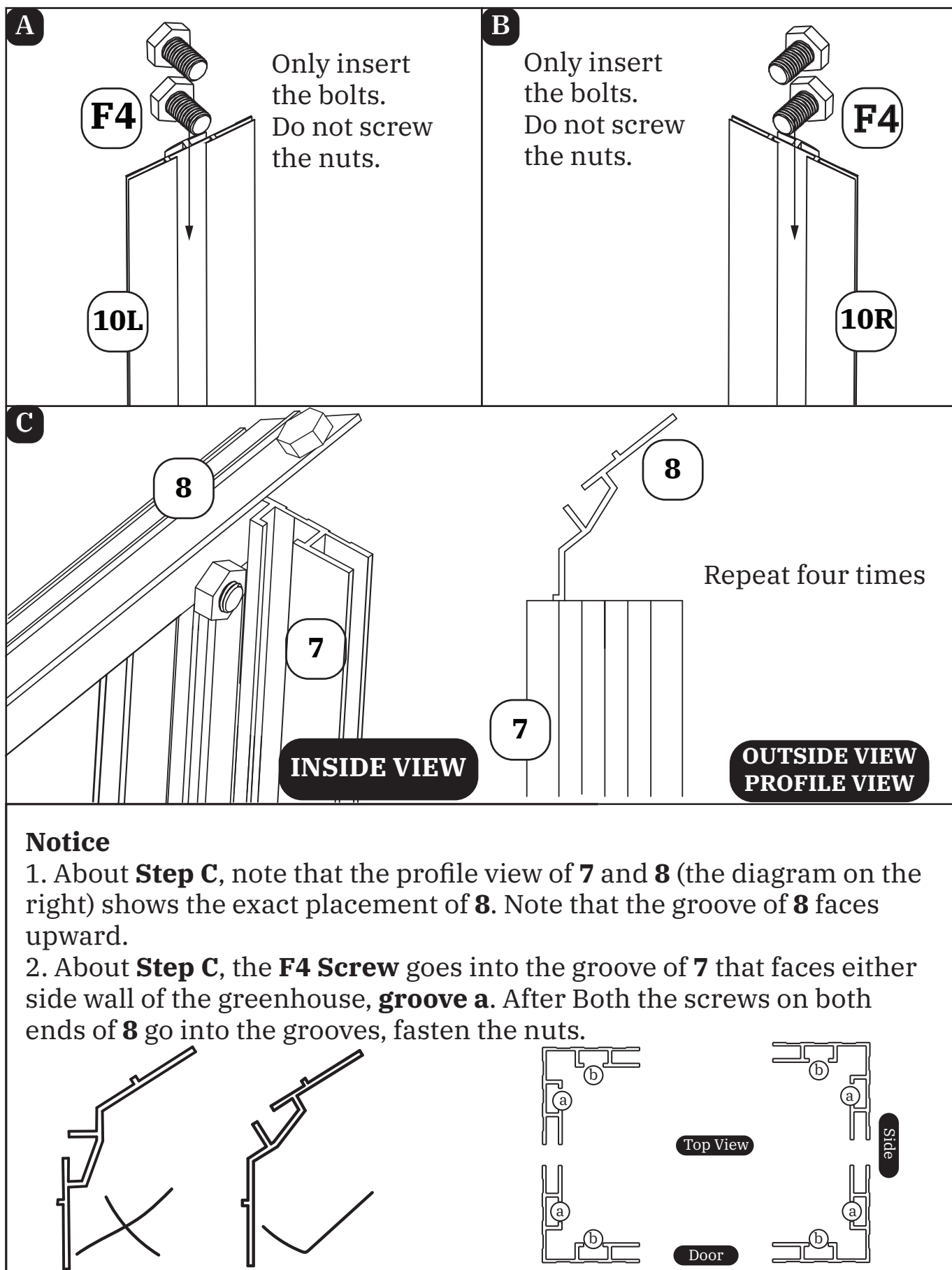


## 6. Assembling of Roof Frames


Part No.	Part	Qty.
8		2
F4		4

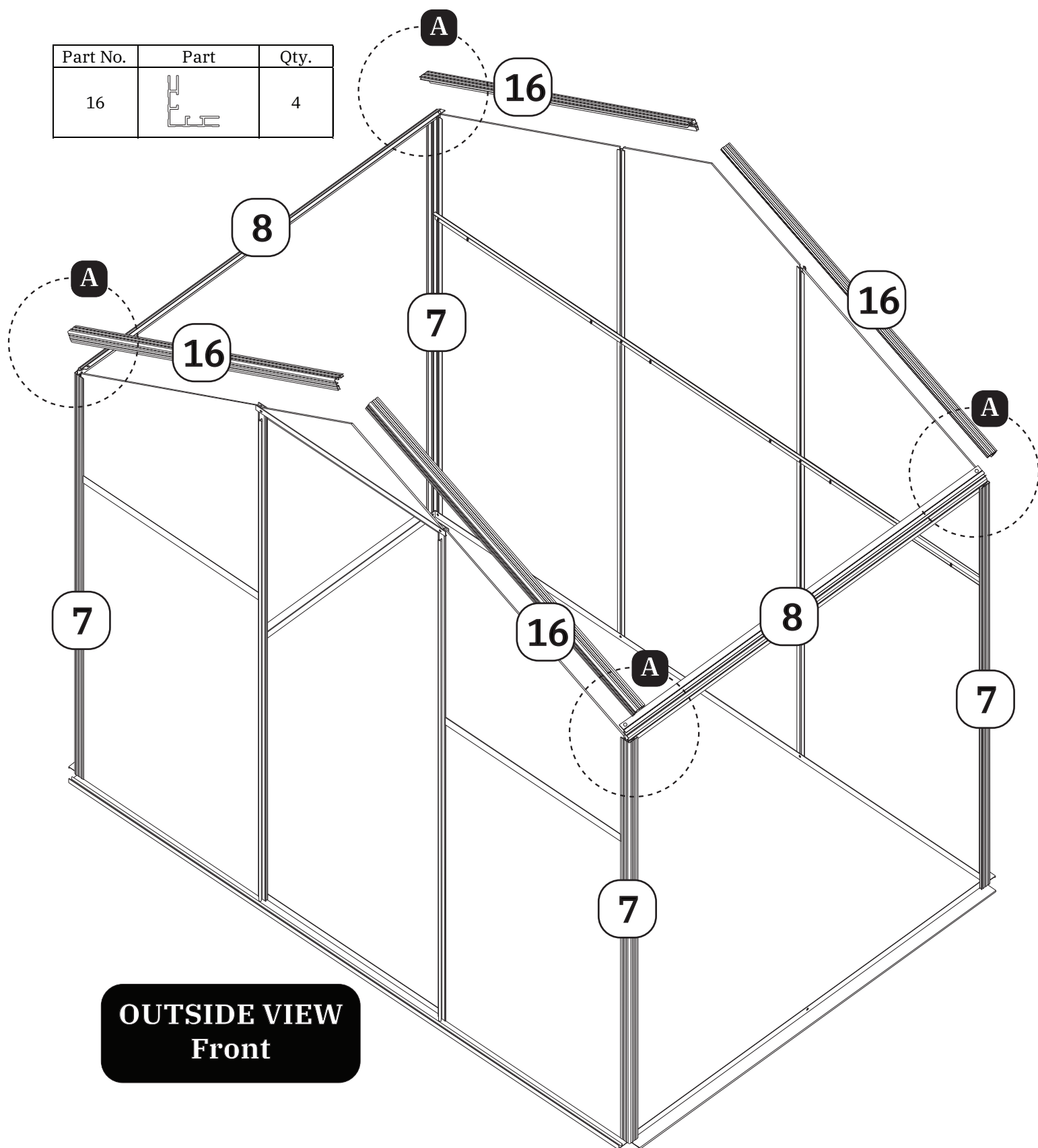


## 6. Assembling of Roof Frames Continued

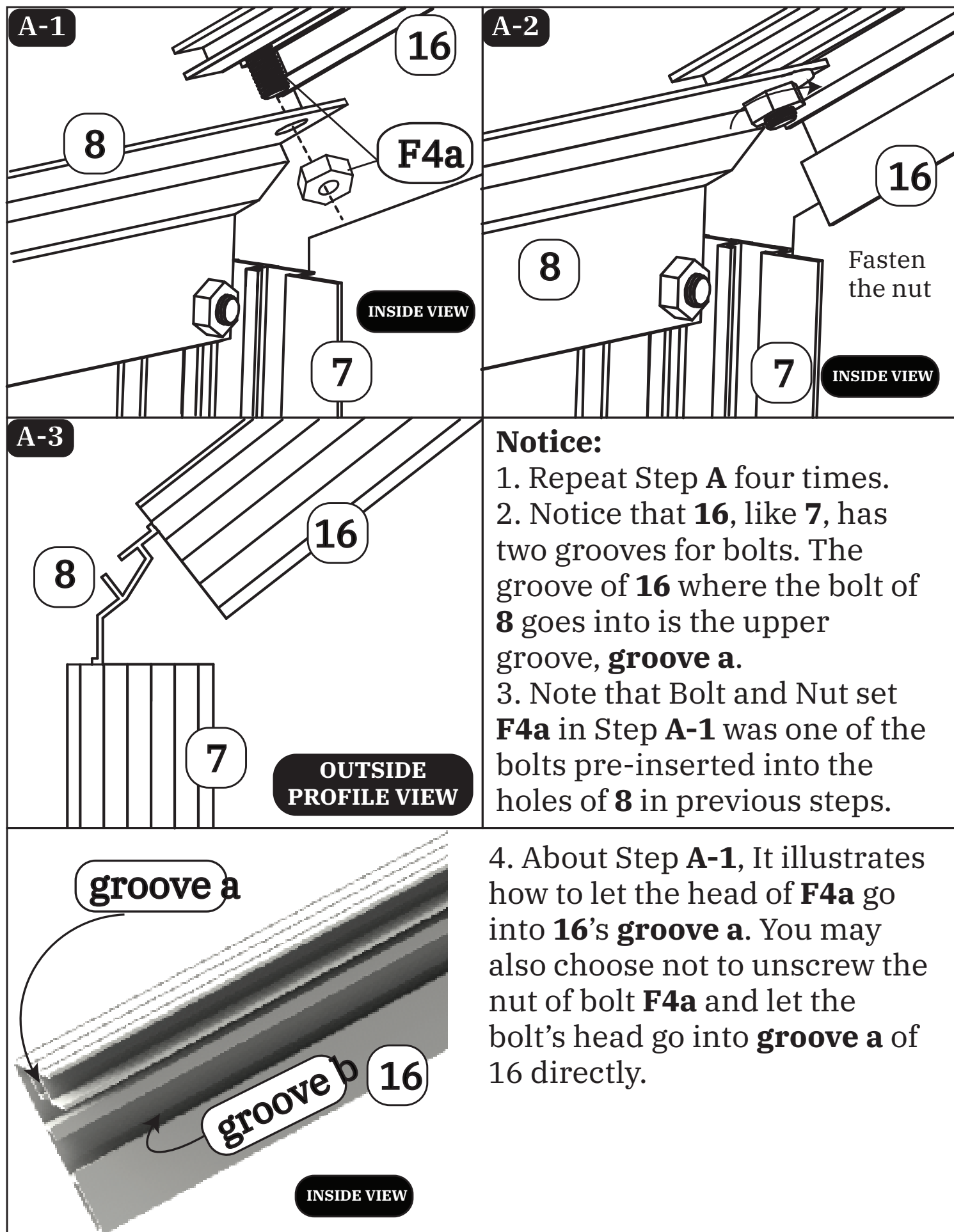


## 6. Assembling of Roof Frames Continued


Part No.	Part	Qty.
16		4

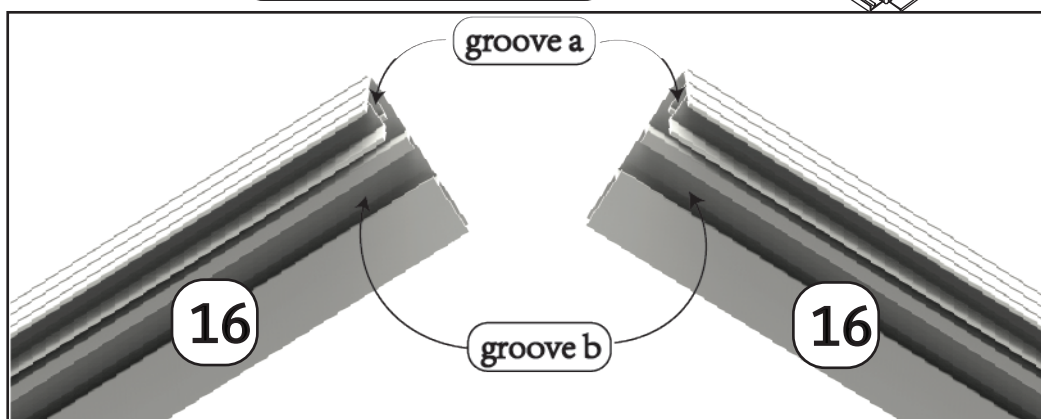
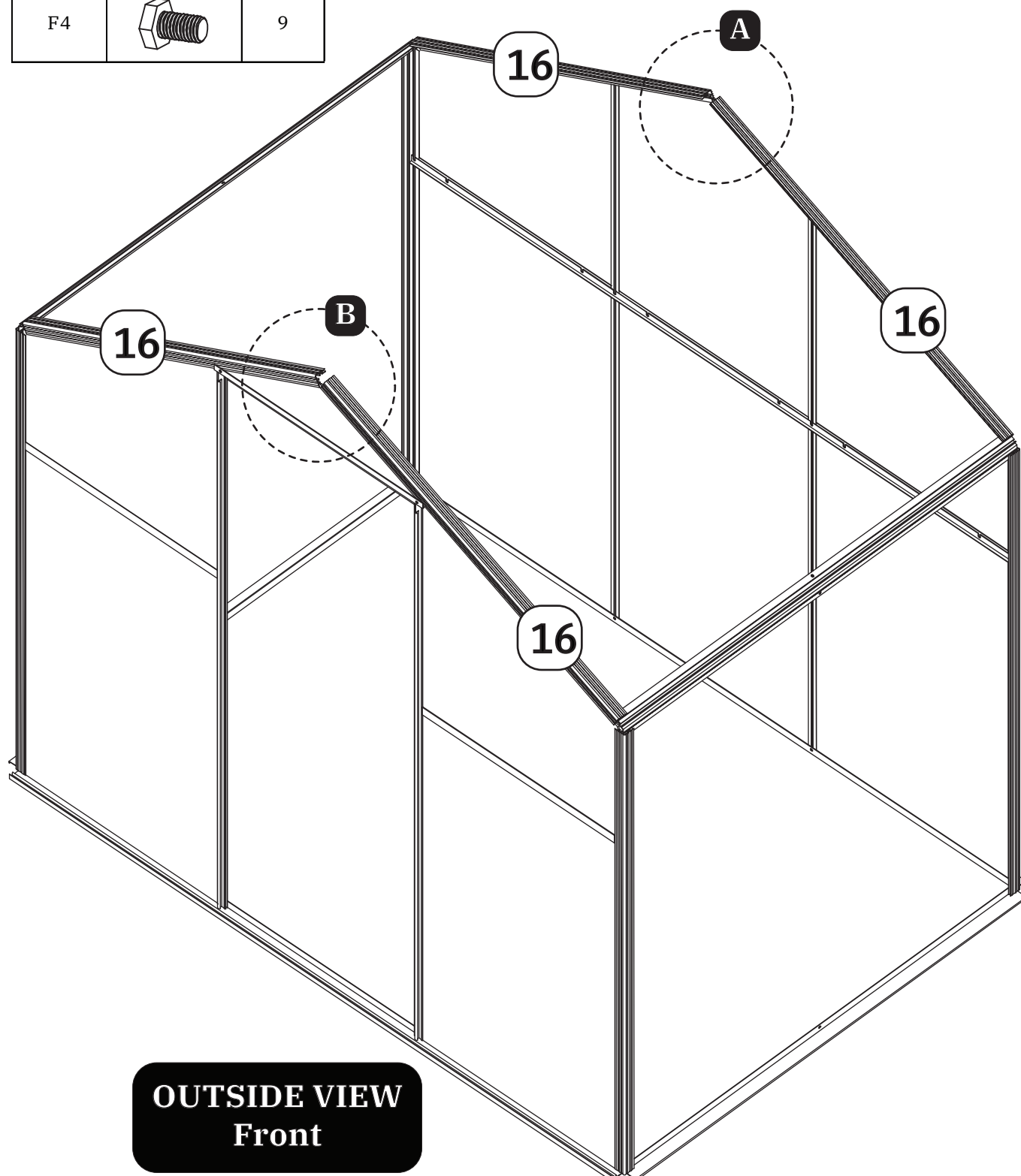


## 6. Assembling of Roof Frames Continued



## 6. Assembling of Roof Frames Continued

Part No.	Part	Qty.
F4		9

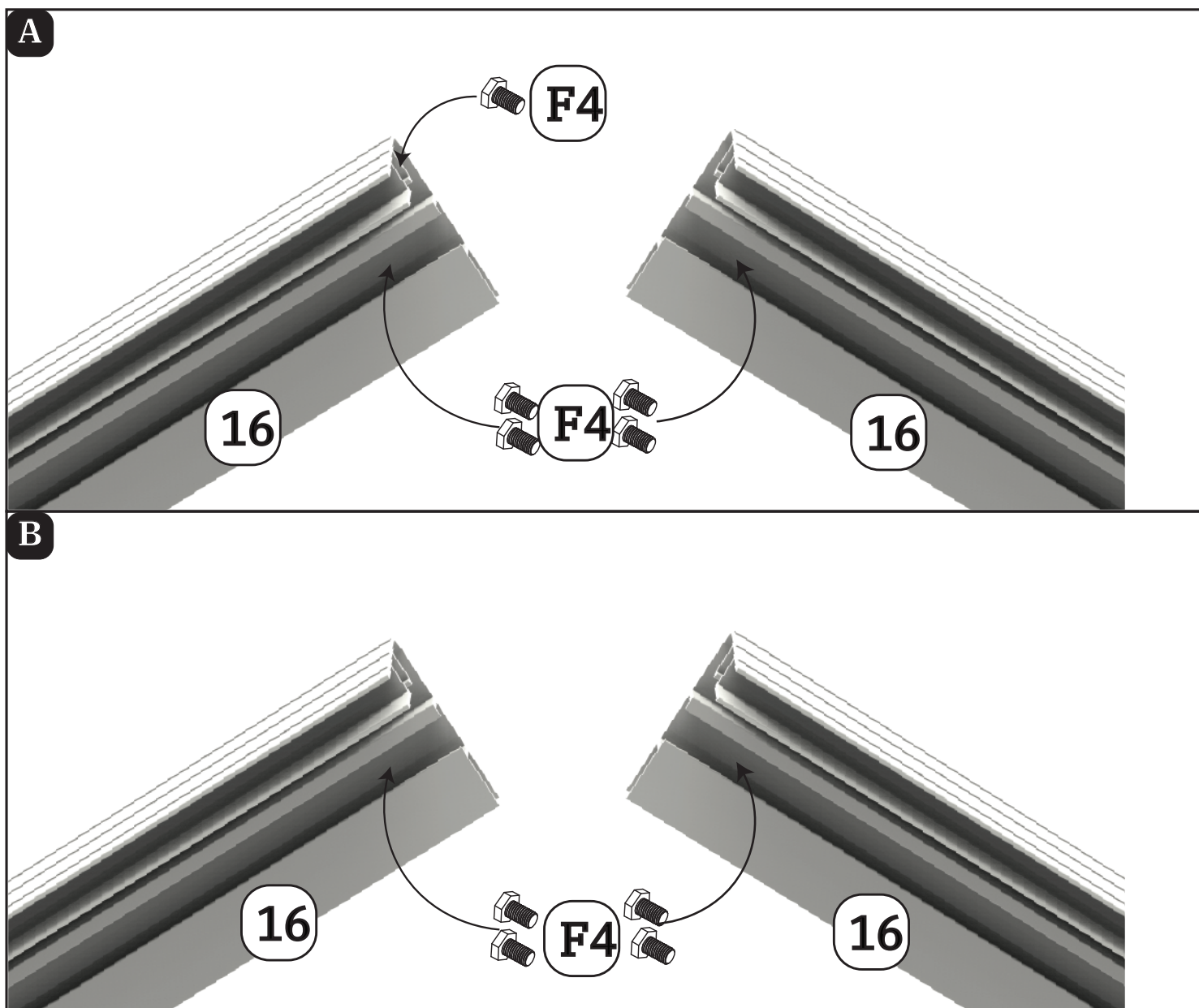


### Notice

Note that **16** has two grooves, **groove a** on the upper side, and **groove b** on the lower side.



## 6. Assembling of Roof Frames Continued







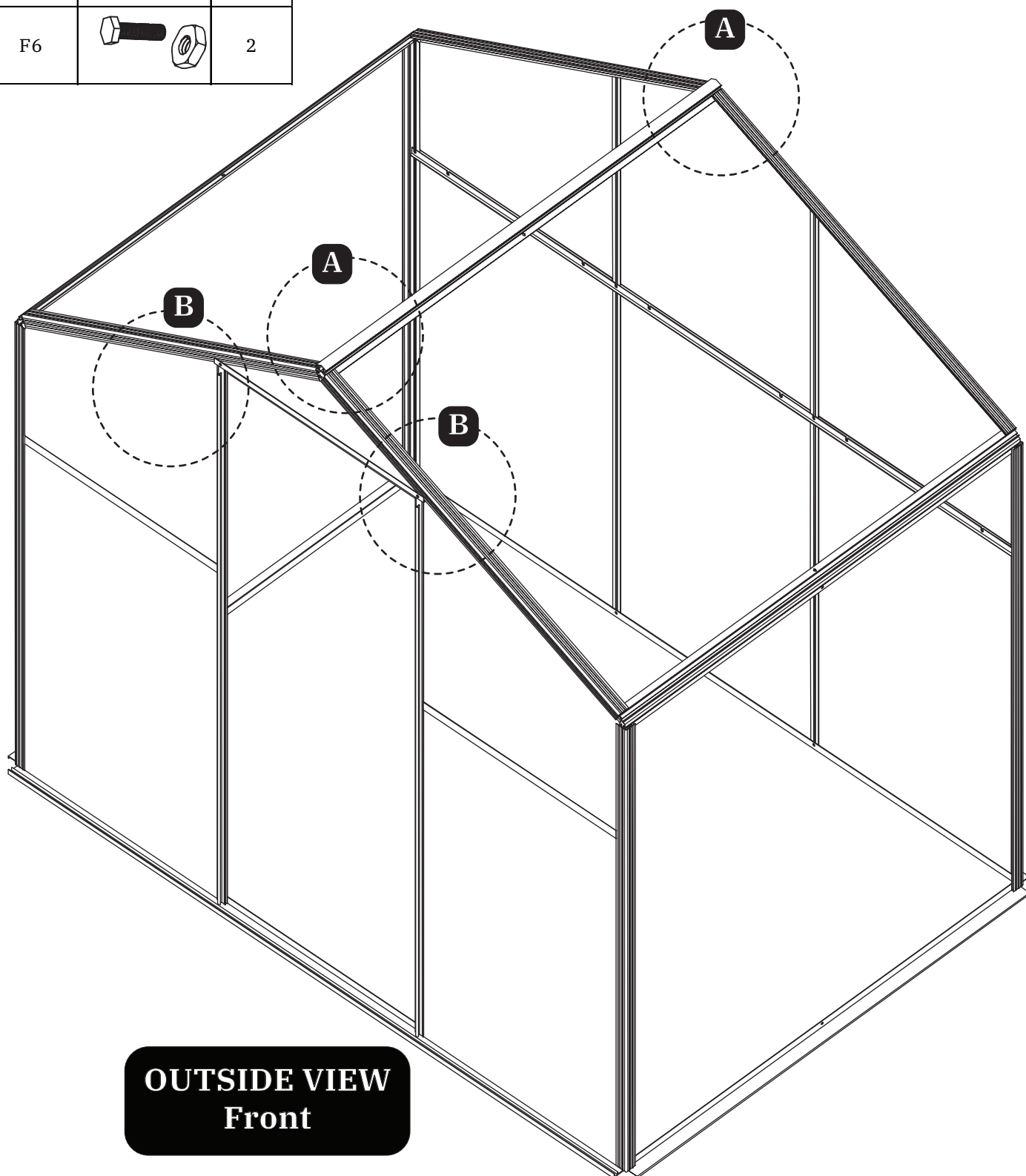
### Notice

1. Note that the numbers of **F4** bolts inserted into grooves of **16** in **Step A** and **Step B** are different.
2. Only insert the bolt. Do not screw the nut.

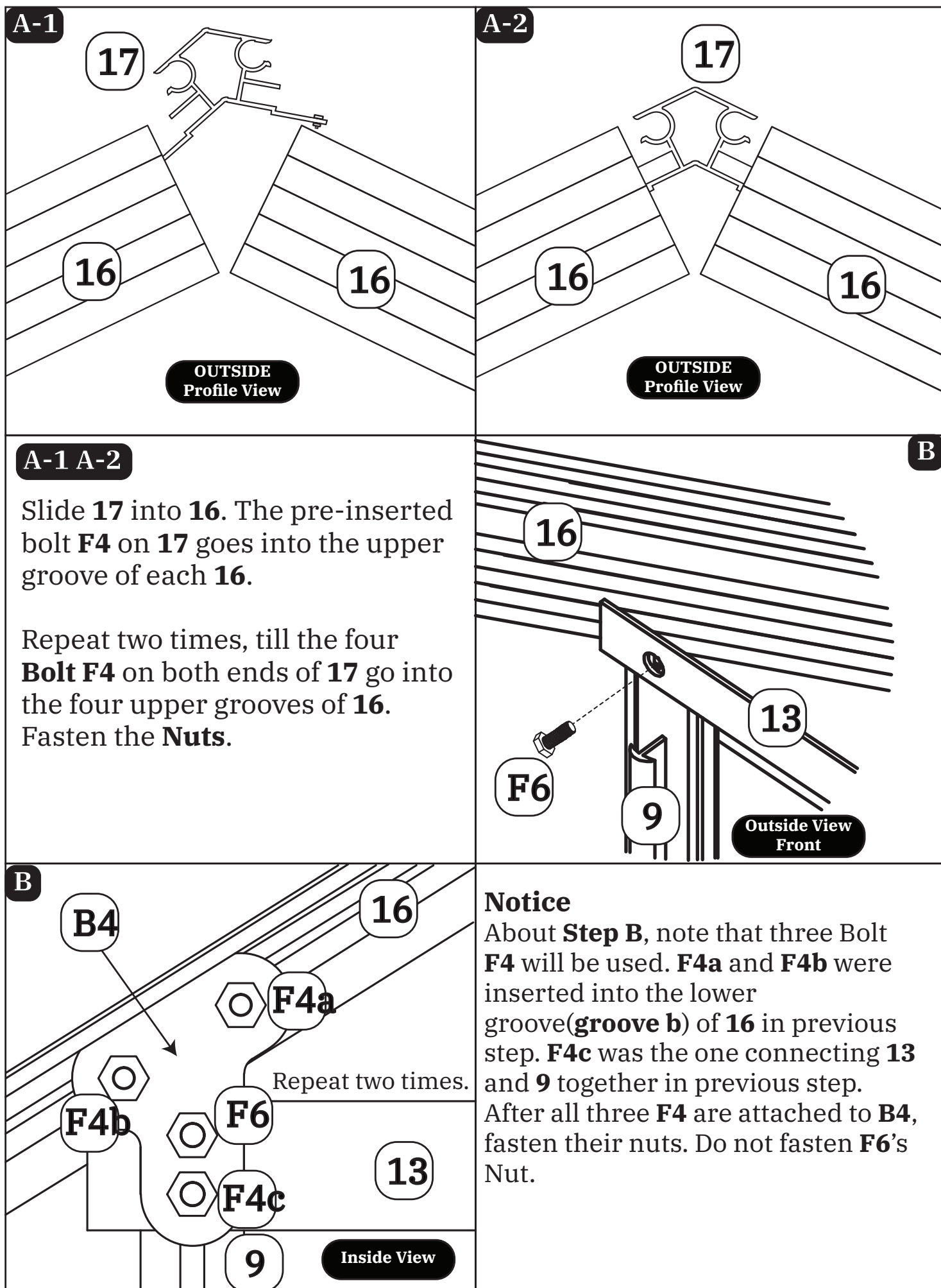


## 7. Securing of Frames

Part No.	Part	Qty.
17		1
B4		2
F4		6
F6		2

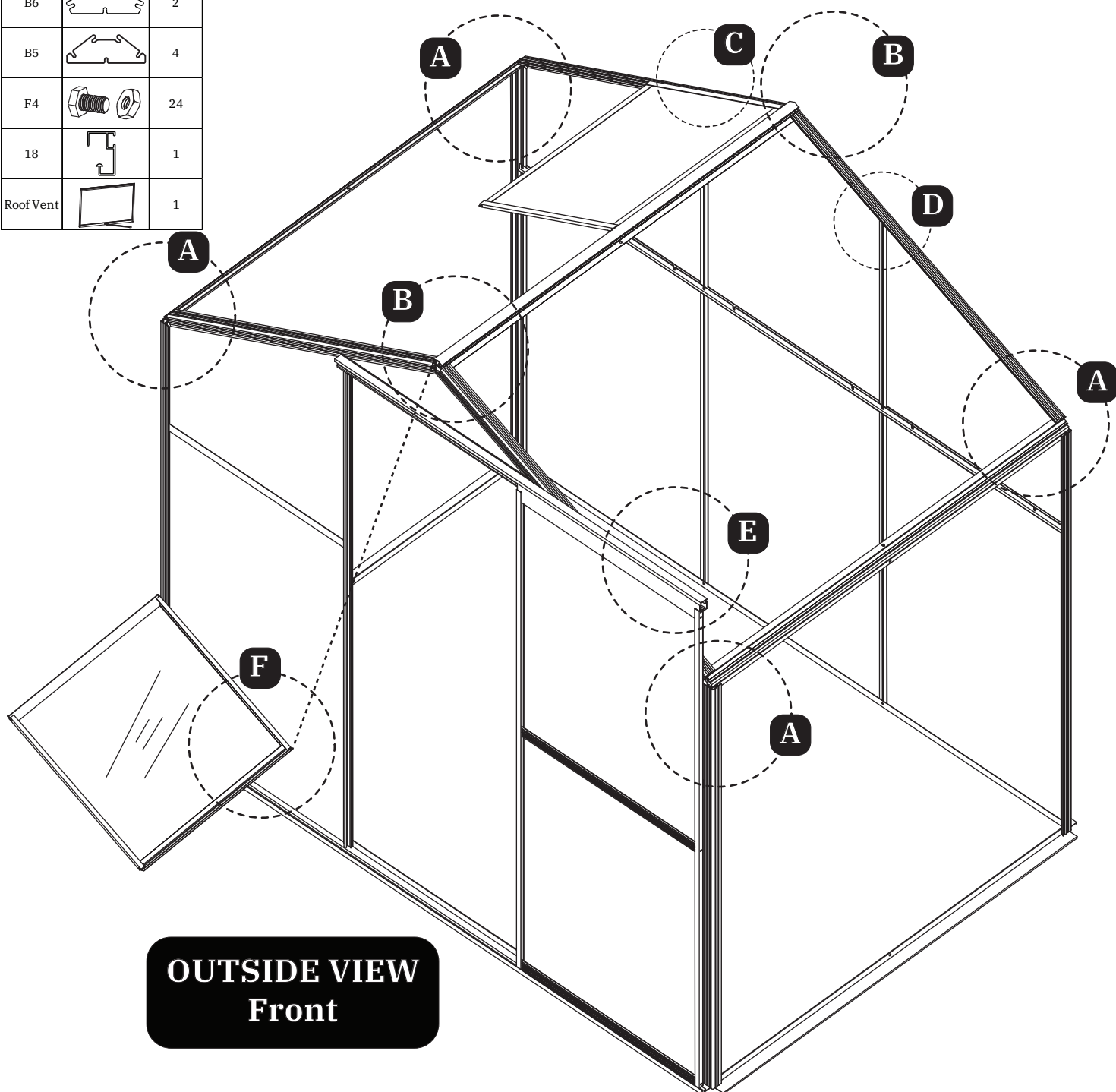


## 7. Securing of Frames Continued

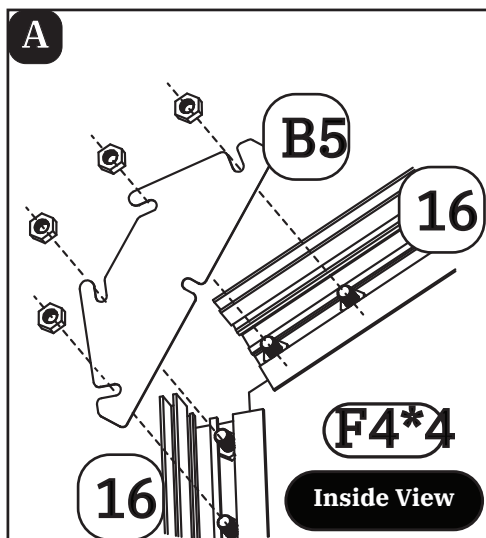


## 7. Securing of Frames Continued

Part No.	Part	Qty.
B4		2
F4		8
B6		2
B5		4
F4		24
18		1
Roof Vent		1



**OUTSIDE VIEW**  
Front

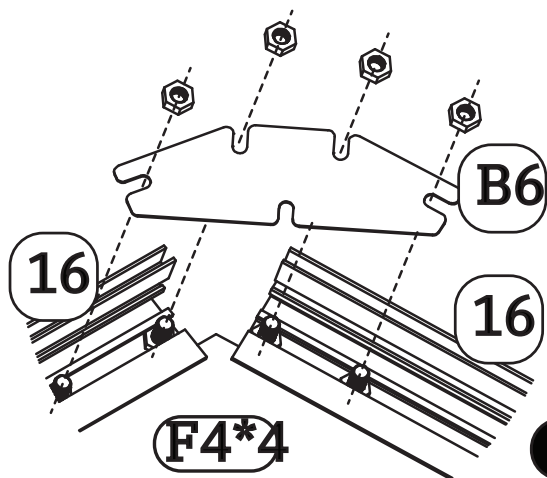


### Notice

1. Four **Bolt F4** will be used in **step A**. They are inserted into the lower groove of **16** in this very step.
2. Note how **B5** and the bolts are connected.
3. Fasten the nuts
4. Repeat four times.

**8** is rendered invisible in this diagram for better visibility..

## 7. Securing of Frames Continued

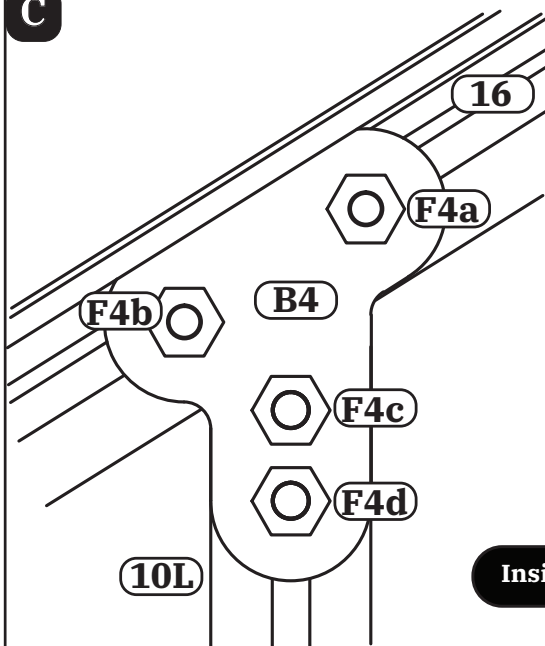
**B**

Inside View

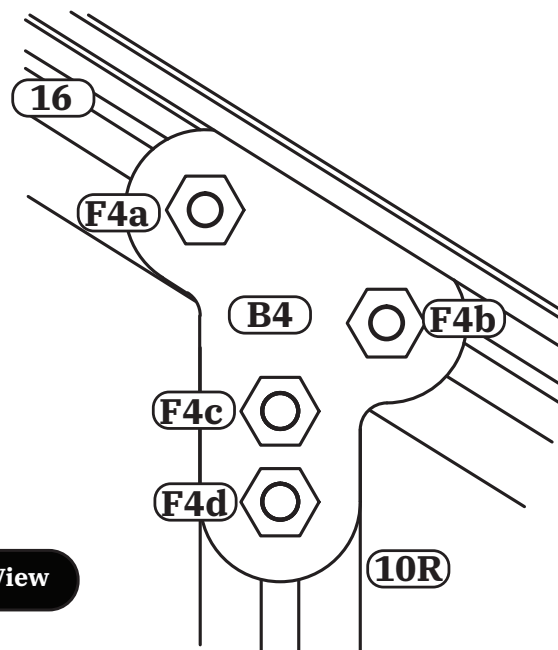
**Notice**

1. Four **Bolt F4** will be used in **step B**. They are inserted into the lower groove of **16** in this very step.
2. Note how **B6** and the bolts are connected.
3. Fasten the nuts
4. Repeat two times.

**17** is rendered invisible in this diagram for better visibility..

**C**

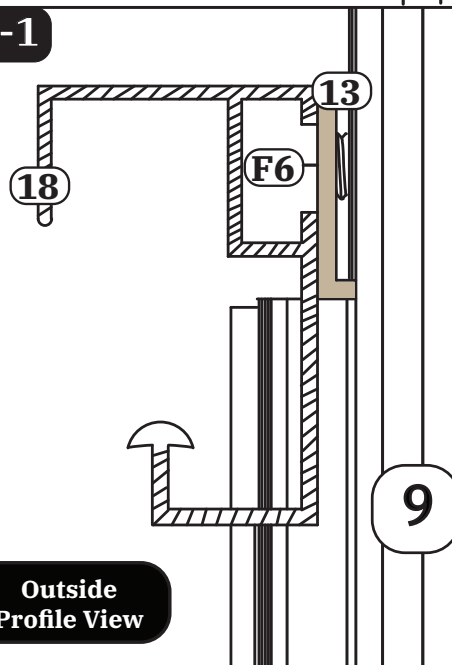
Inside View

**D**

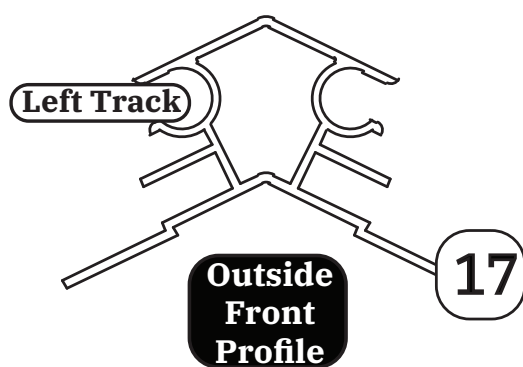
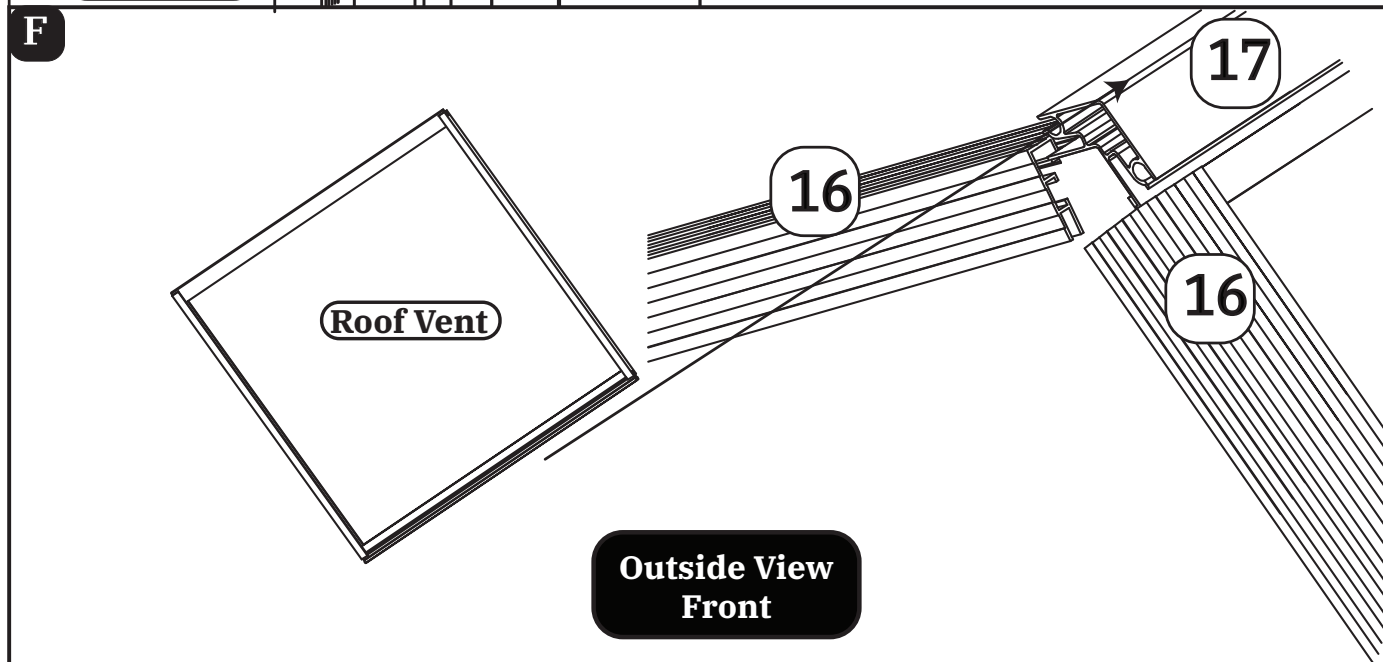
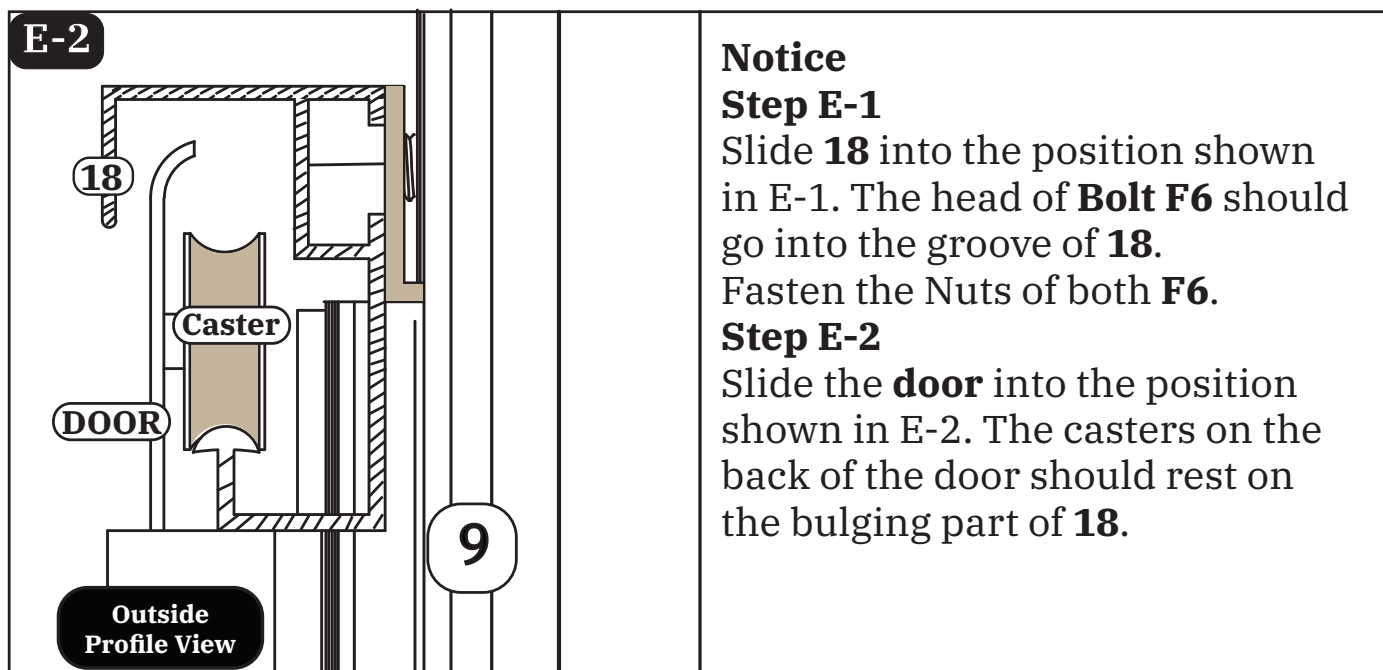
Inside View

**Notice**




1. In step **C** and **D**, each step utilizes 4 **Bolt F4**. **F4a** and **F4b** were inserted into the upper groove of **16** in previous steps. **F4c** and **F4d** were inserted into the groove of **10L** or **10R**.

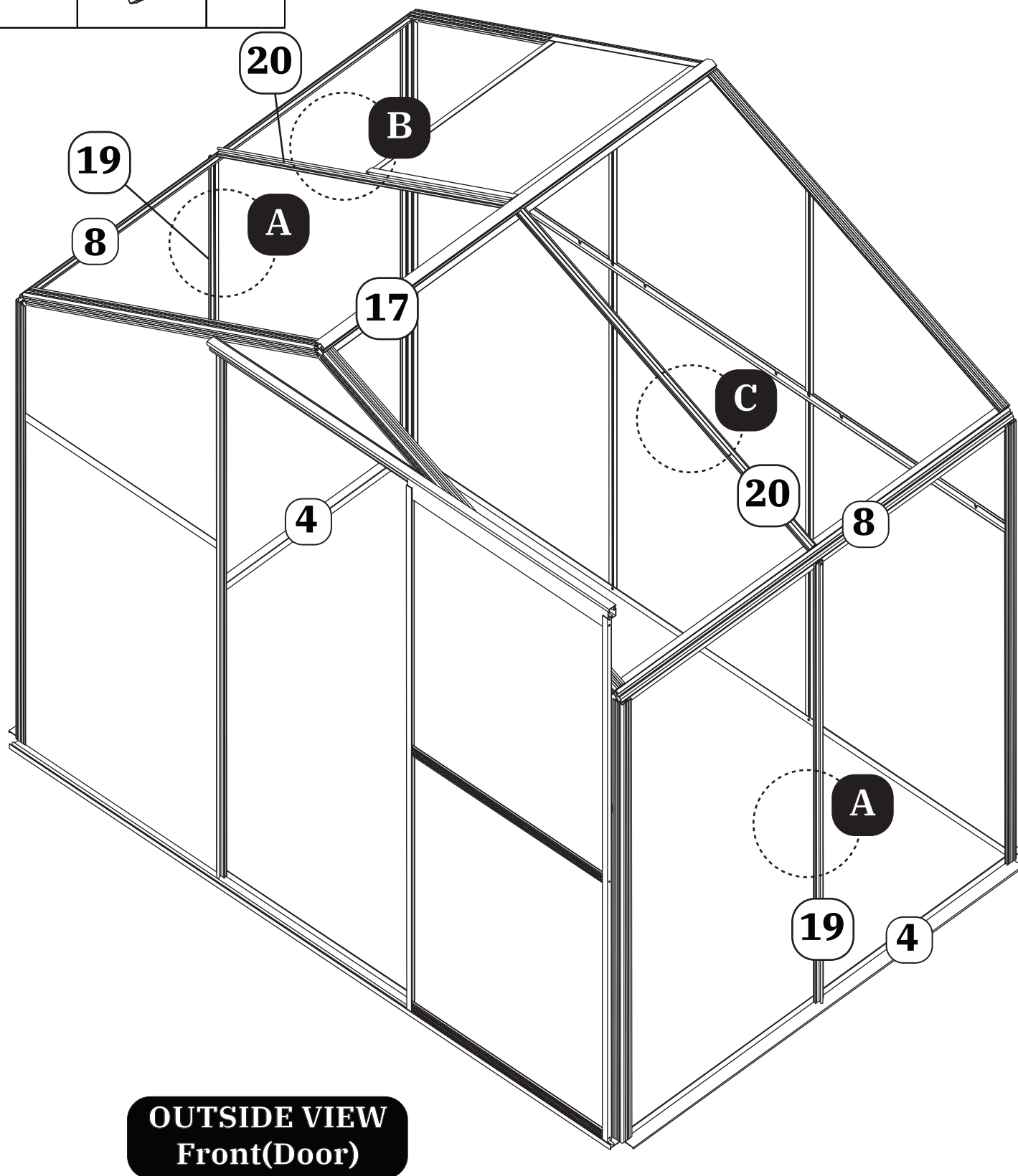
**E-1**Outside  
Profile View

## 7. Securing of Frames Continued



## 8. Assembling of Middle Frame

Part No.	Part	Qty.
19		2
20		2
F4		3



## 8. Assembling of Middle Frame Continued

### A-1

Slide **19** to the position shown on previous page. The head of the Bolt **F4** on **8** and **4** should go into the groove of **19**.

### A-2



Before the head of the Bolt **F4** on **4** goes into the groove of **19**, Insert a Bolt **F4** into the groove of **19** from the lower end.

Fasten the Bolt **F4** on **8** and **4** with nuts.

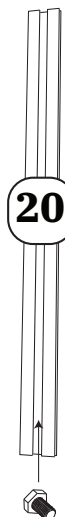
Now there should be a Bolt **F4** free to move inside the groove of **19**.

**INSIDE VIEW**

### B-1

Slide **20** to the position shown on previous page. The head of the Bolt **F4** on **8** and **17** should go into the groove of **19**.

### B-2



Before the head of the Bolt **F4** on **8** goes into the groove of **19**, Insert a Bolt **F4** into the groove of **20** from the lower end.

Fasten the Bolt **F4** on **8** and **17** with nuts.

Now there should be a Bolt **F4** free to move inside the groove of **19**.

**INSIDE VIEW**

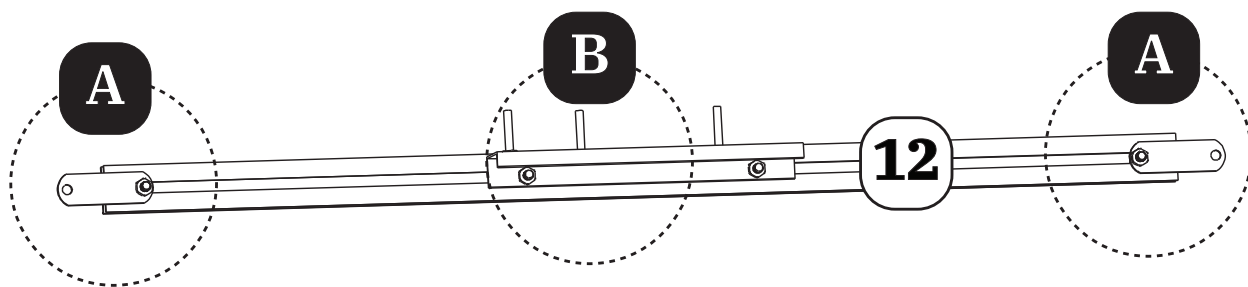
### C








Slide **20** to the position shown on previous page. The head of the Bolt **F4** on **8** and **17** should go into the groove of **19**.

Fasten the Bolt **F4** on **8** and **17** with nuts.

Do not insert Bolt in Step C.

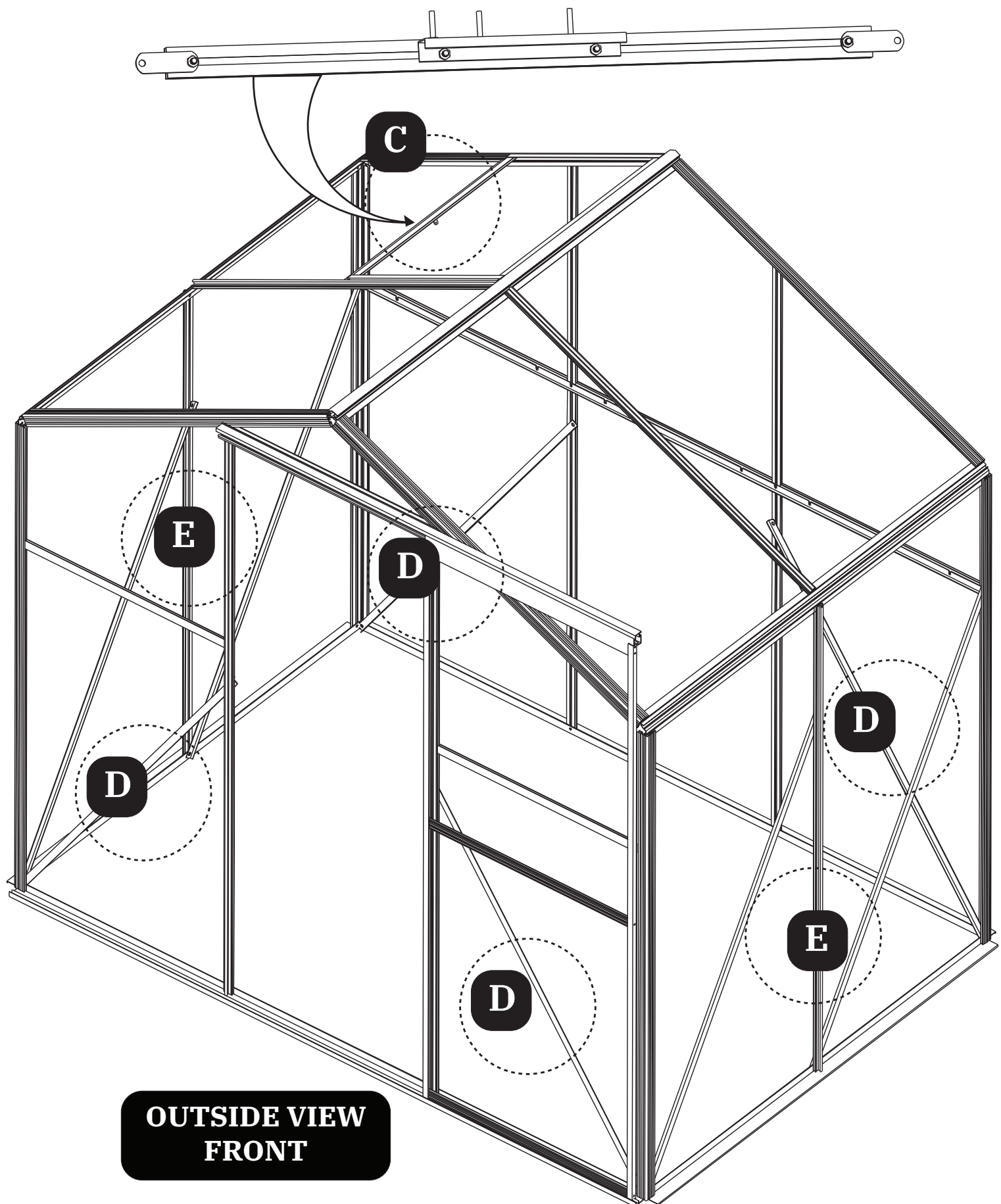
## 9. Assembling of Roof Vent Holder



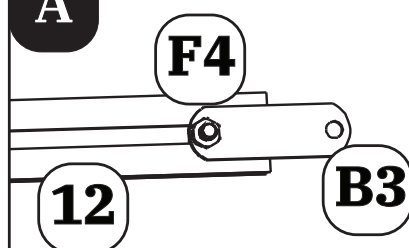
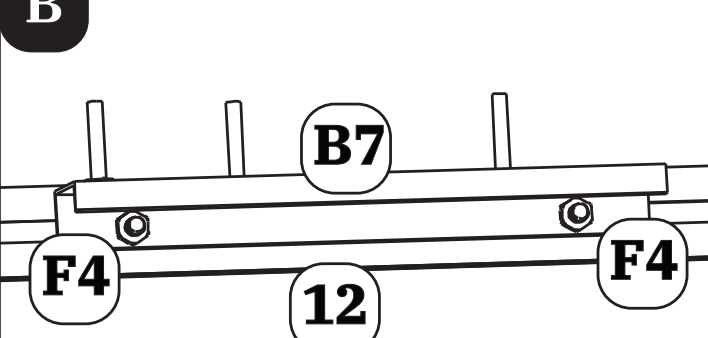
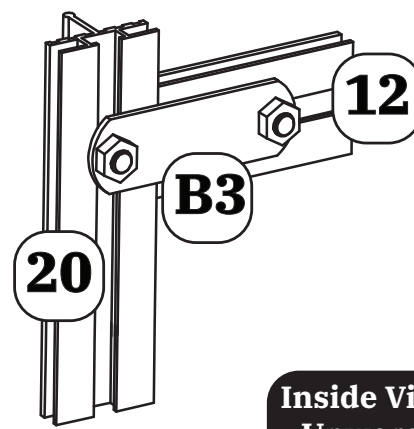
Part No.	Part	Qty.
12		1
B7		1
22		4
23		4
B3		2
F4		4
F4		6



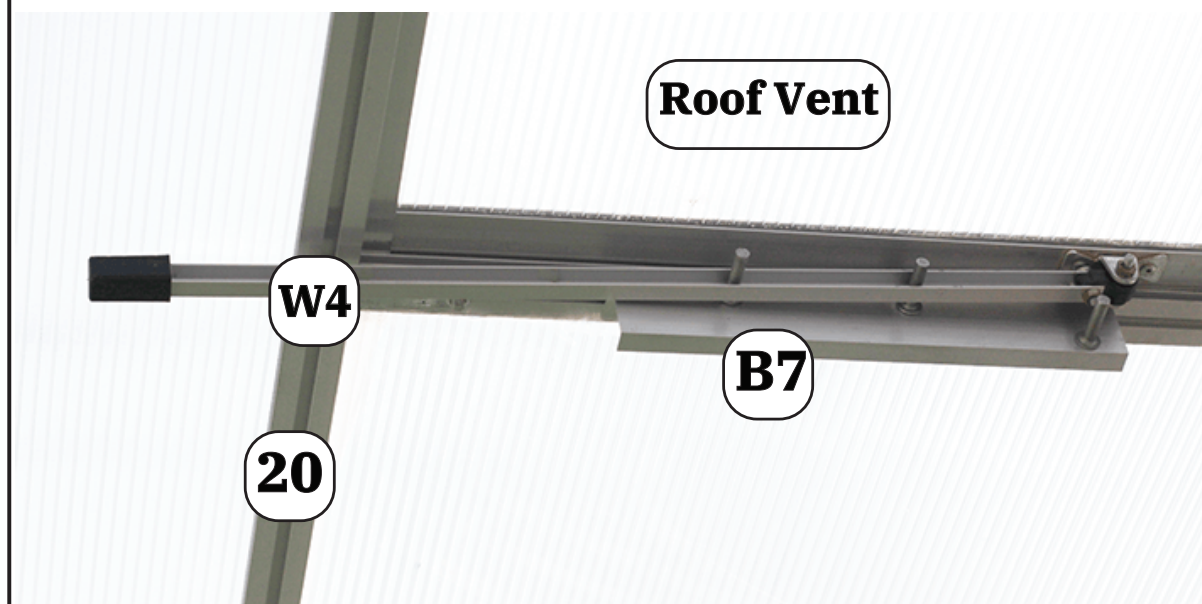
## 9. Assembling of Roof Vent Holder Continued



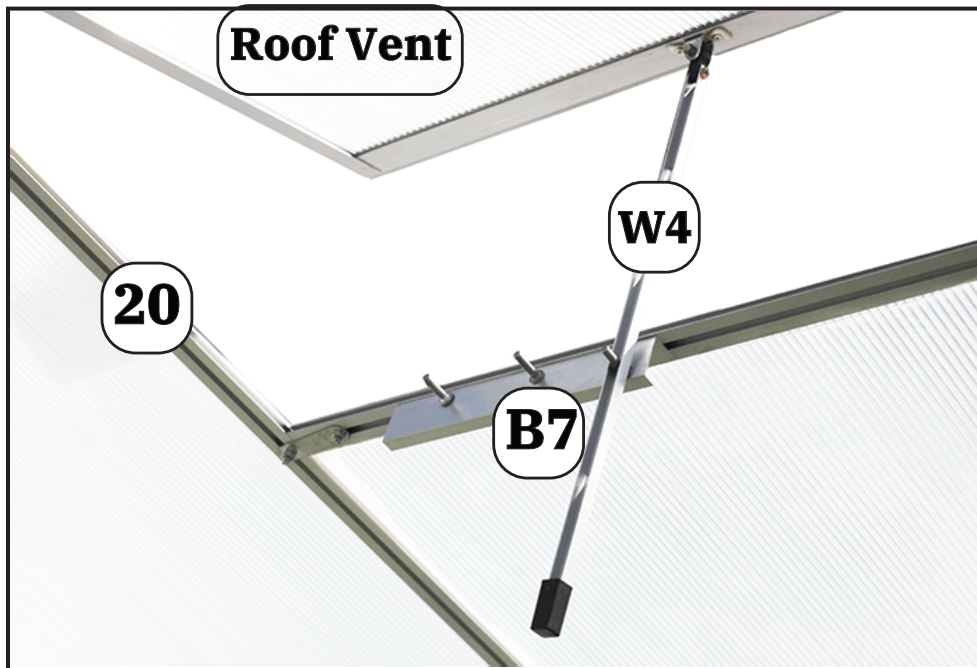
## 9. Assembling of Roof Vent Holder Continued

<p><b>A</b></p>  <p>Screw on the nut of <b>Bolt F4</b> but do not fasten it.</p>	<p><b>B</b></p>  <p>Screw on the nuts of <b>Bolt F4</b> but do not fasten them. Note that at this step, the orientation of <b>B7</b> does not matter.</p>
<p><b>C-1</b></p> <p>Place the newly assembled 12 next to the roof vent. Note that the three pointers of B7 must face toward the ridge.</p> <p>Locate two previously inserted <b>F4 Bolts</b>, one in the groove of <b>20</b> and the other in the upper groove of <b>16</b>.</p> <p>Adjust the position of two <b>B3</b> assembled to <b>12</b> in <b>Step A</b> to a position so that the two <b>F4 Bolts</b> found in <b>Step C-1</b> go through the holes of <b>B3</b>.</p>	<p><b>C-2</b></p> <p>Fasten the four <b>F4 Bolts</b> on two <b>B3</b> with <b>nuts</b>.</p>  <p>Inside View Upwards</p>

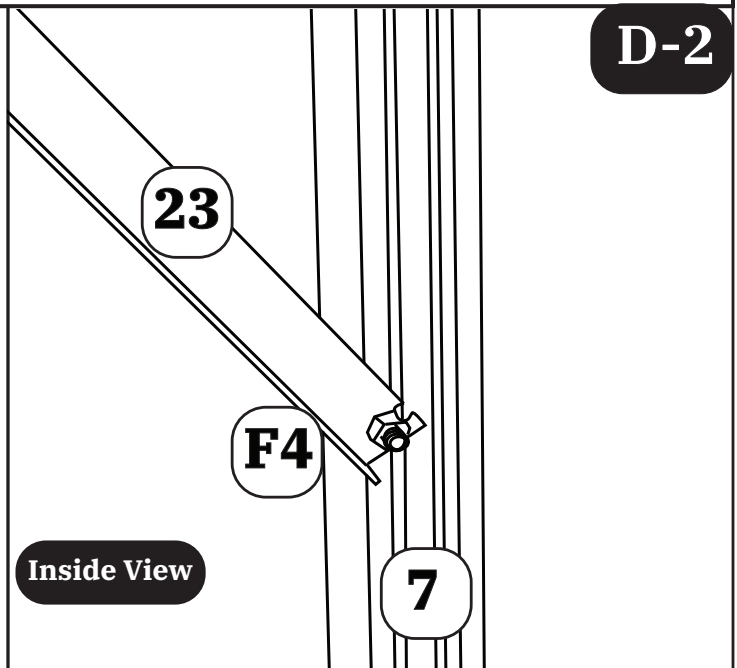
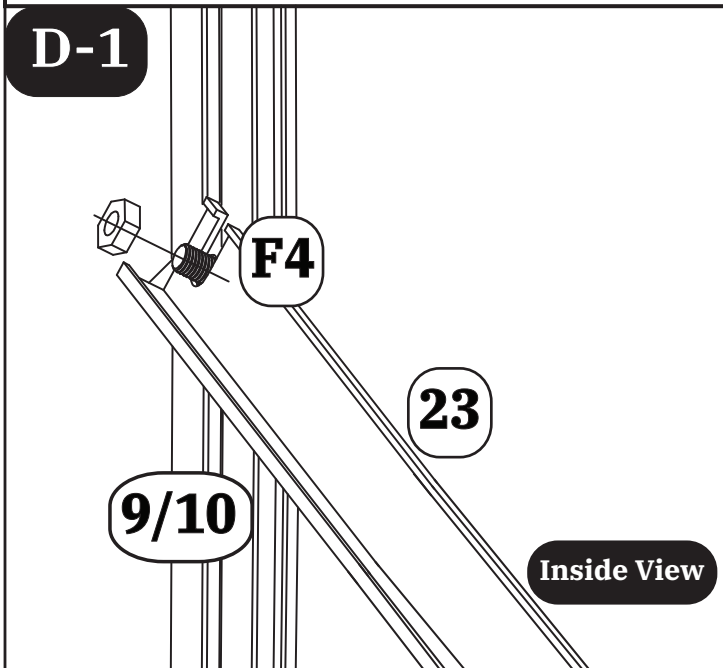
How to use the Roof Vent-1



## 9. Assembling of Roof Vent Holder Continued



Note that B7's position decides the opening height of the roof vent. Fasten the nuts on B7 when you are satisfied with the opening.

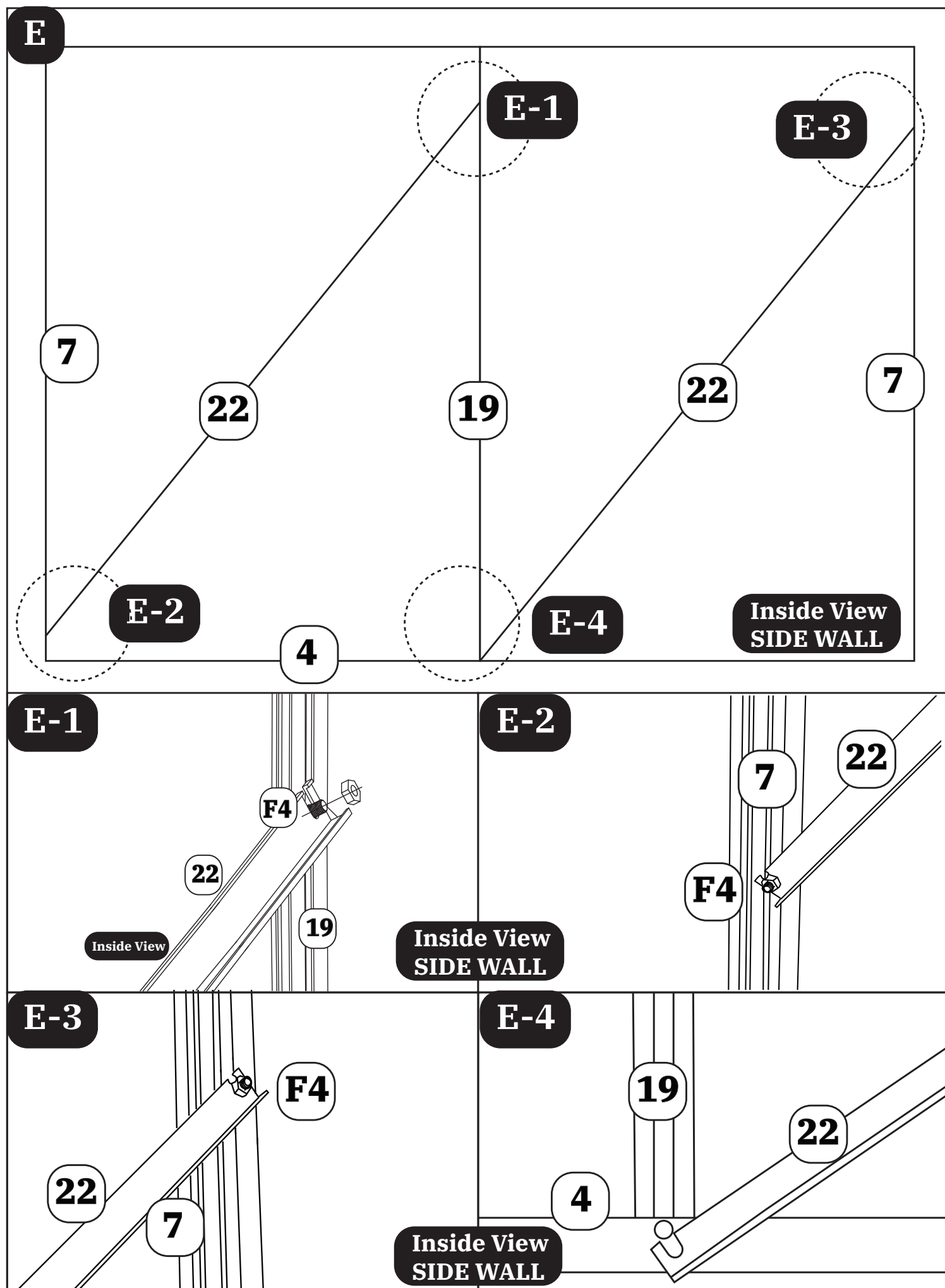


### Step D-1 and D-2

This step utilizes two previously inserted **F4 Bolts**, one in the groove of **9** (or **10L/10R** for the backwall), the other in the groove of **7**.

Slide these two bolts to the position shown on the diagrams above and place **23** under the bolts. Fasten the nuts.

## 10. Assembling of Side Braces



## 10. Assembling of Side Braces Continued

### Step E-1 and E-2

This step utilizes two previously inserted **F4 Bolts**, one in the groove of **19** the other in the groove of **7**.

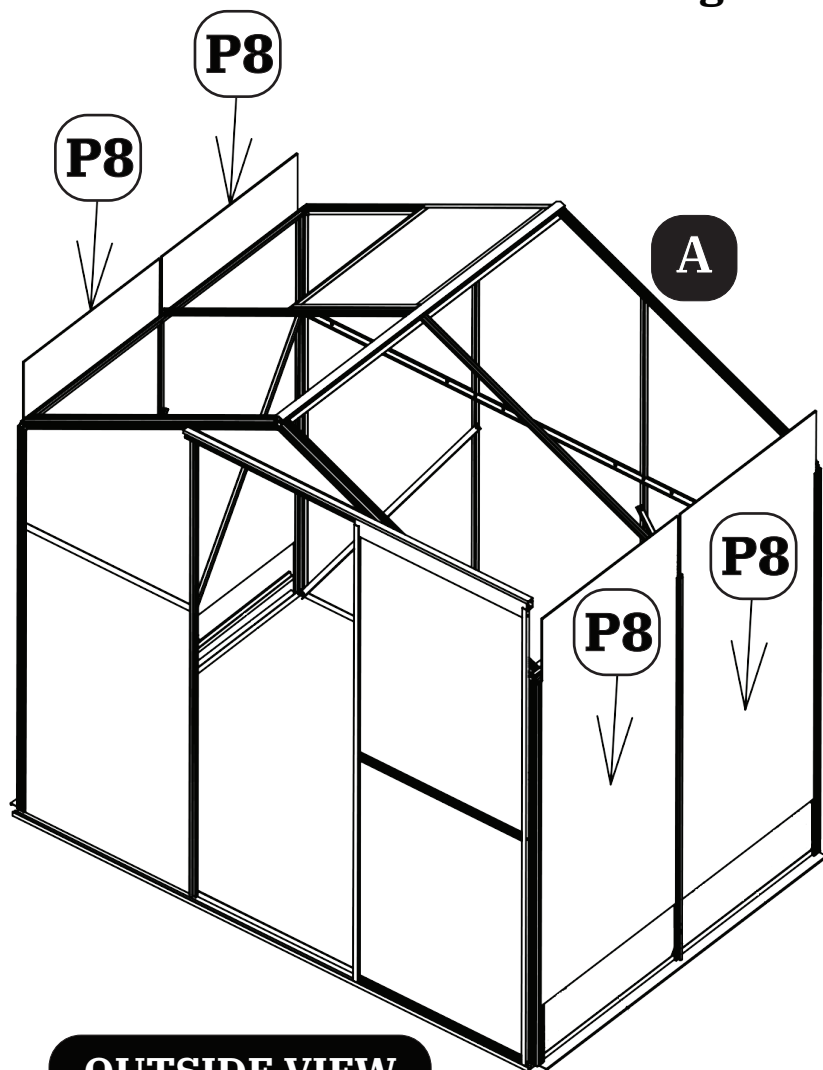
Slide these two bolts to the position shown on the diagrams on previous page and place **22** under the bolts. Fasten the nuts.

### Step E-3 and E-4

This step utilizes one previously inserted **F4 Bolt** found in the groove of **7**. You also need another bolt, the one that connects **4** and **19**. Unfasten its nut and place **22** under the bolt.

Slide the bolt in **7**'s groove to the position shown on the diagrams on previous page and fasten the two nuts.

## 11. Assembling of Panels



**OUTSIDE VIEW  
FRONT**

**A**


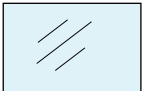

Insert Panel **P8**.

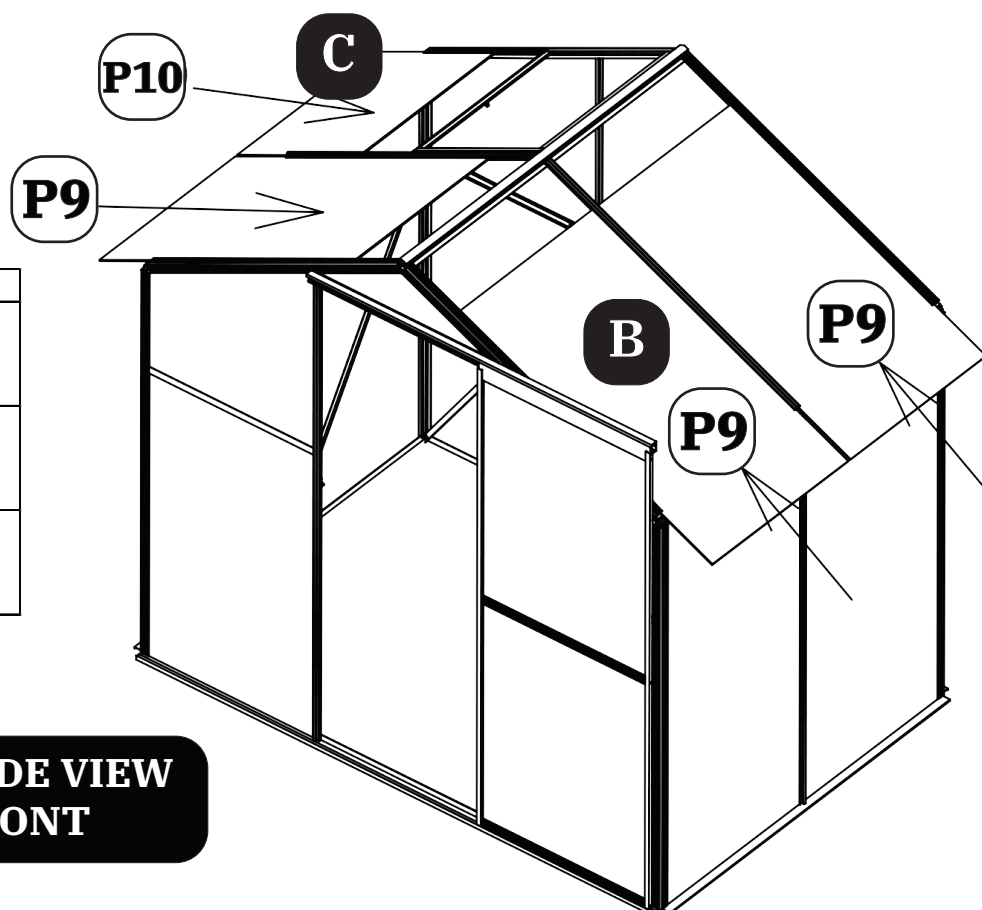
**B**

Insert Panel **P9**.

**C**

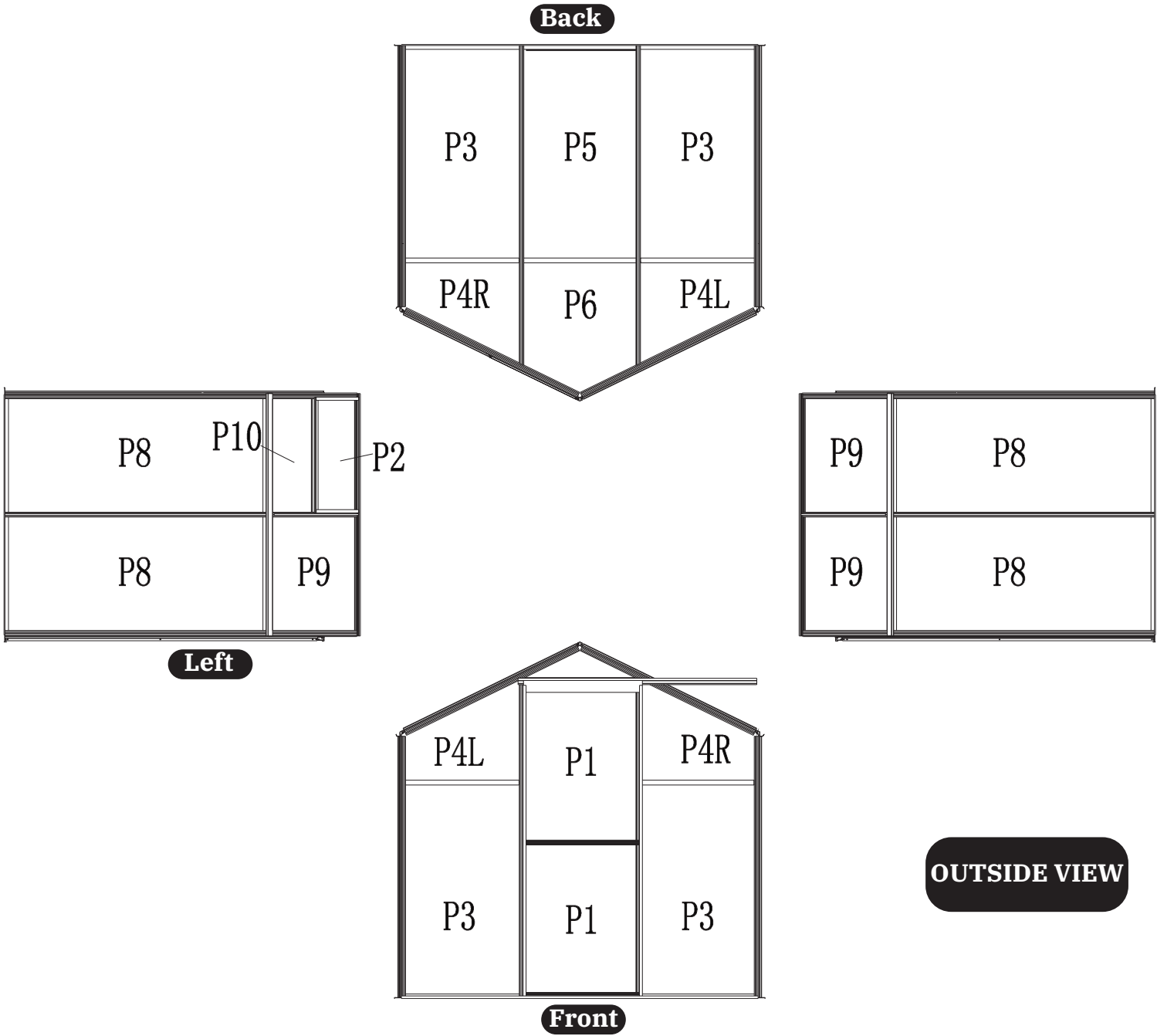
Insert Panel **P10**.

Part No.	Part	Qty.
P8		4
P9		3
P10		1








**OUTSIDE VIEW  
FRONT**

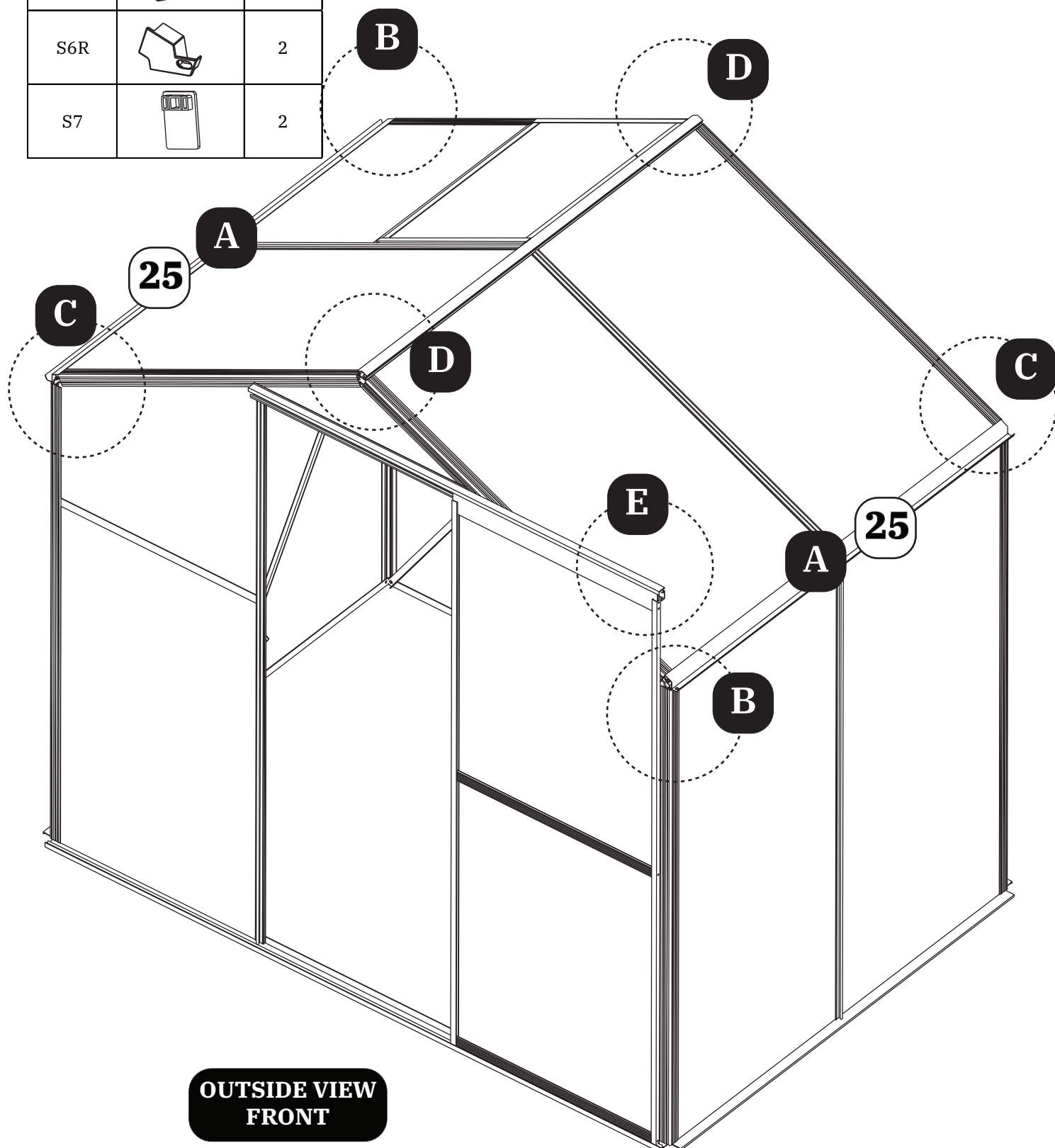
Polycarbonate Panel Layout





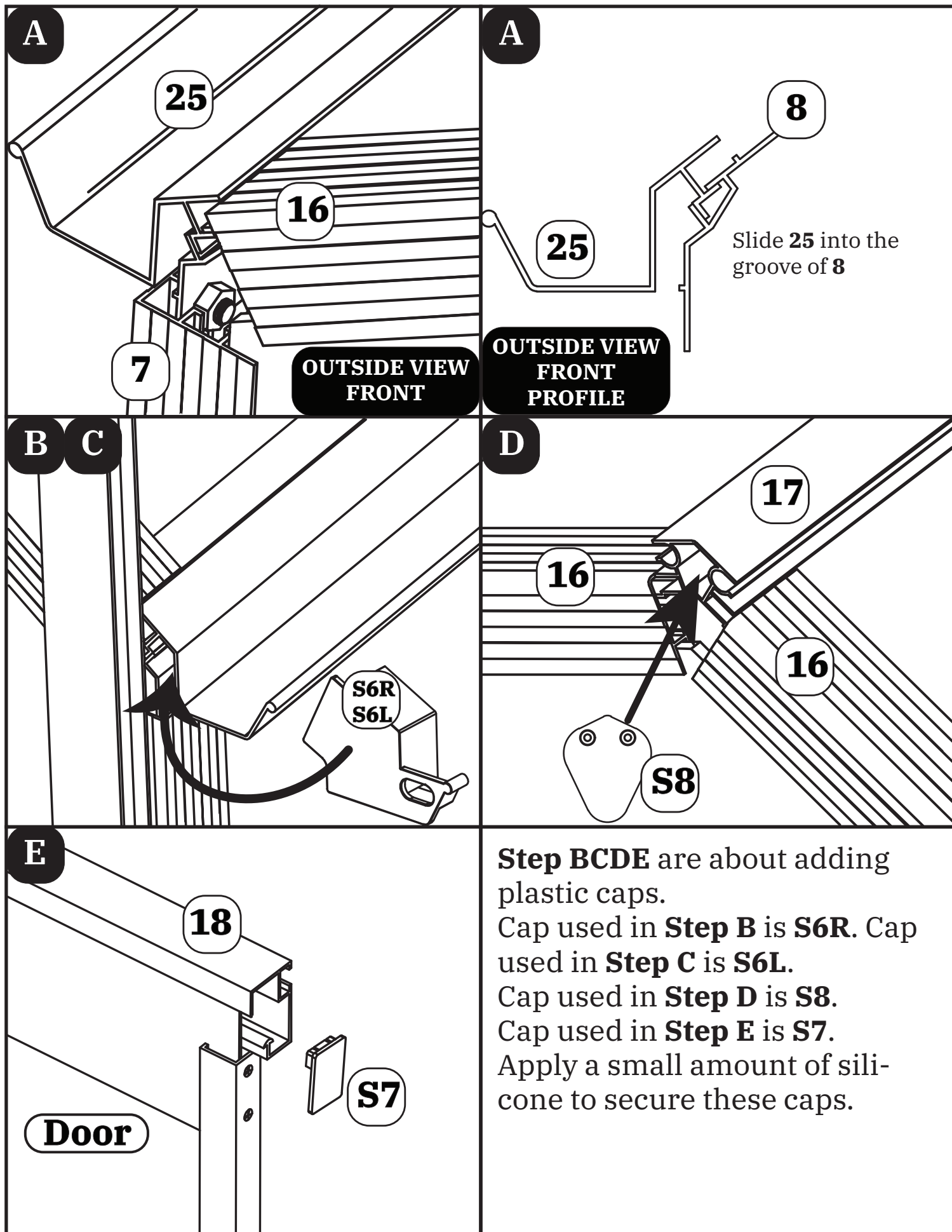
## 12. Assembling of Gutters and Caps

Part No.	Part	Qty.
25		2
S5		2
S6L		2
S6R		2
S7		2

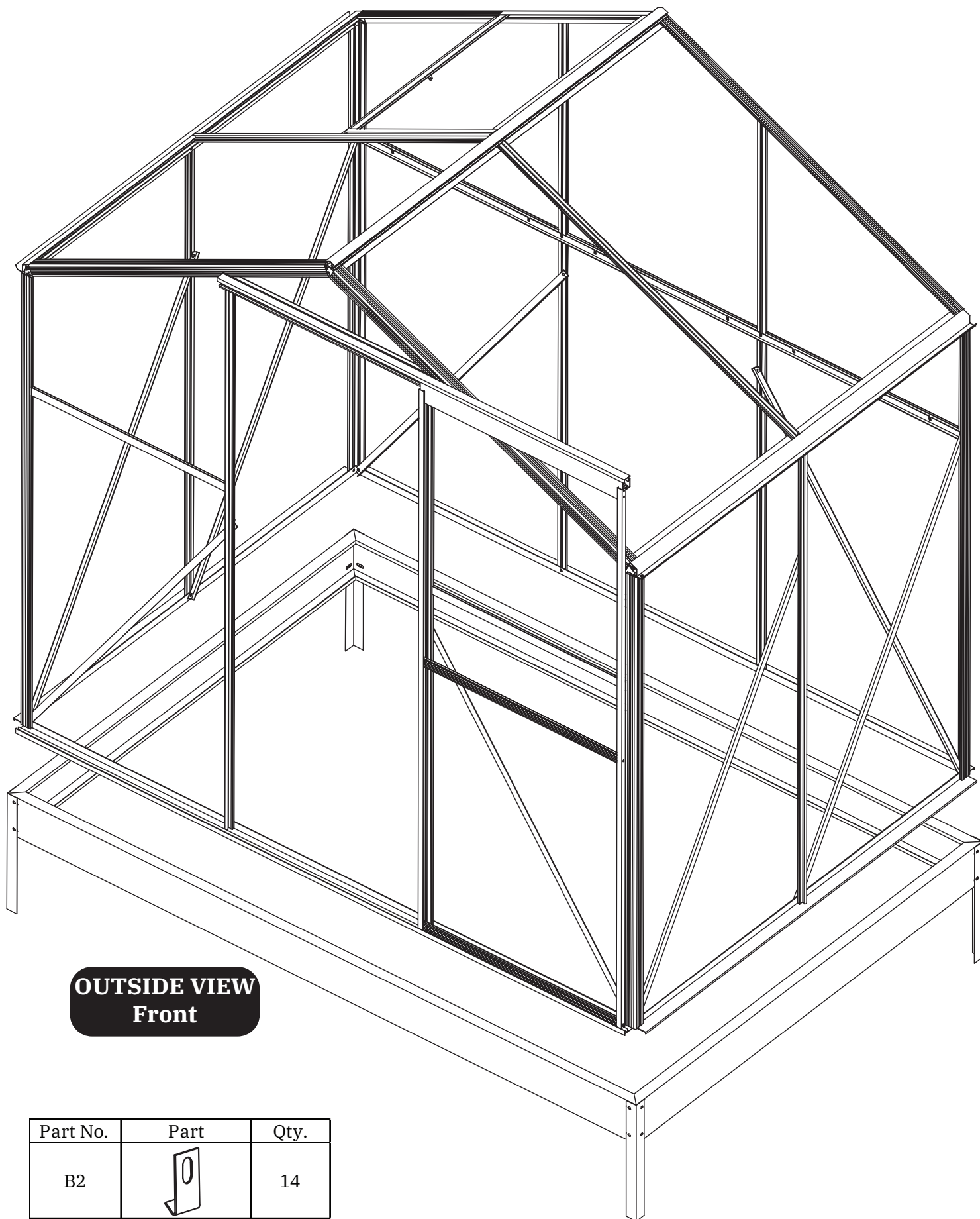





## 12. Assembling of Gutters and Caps Continued



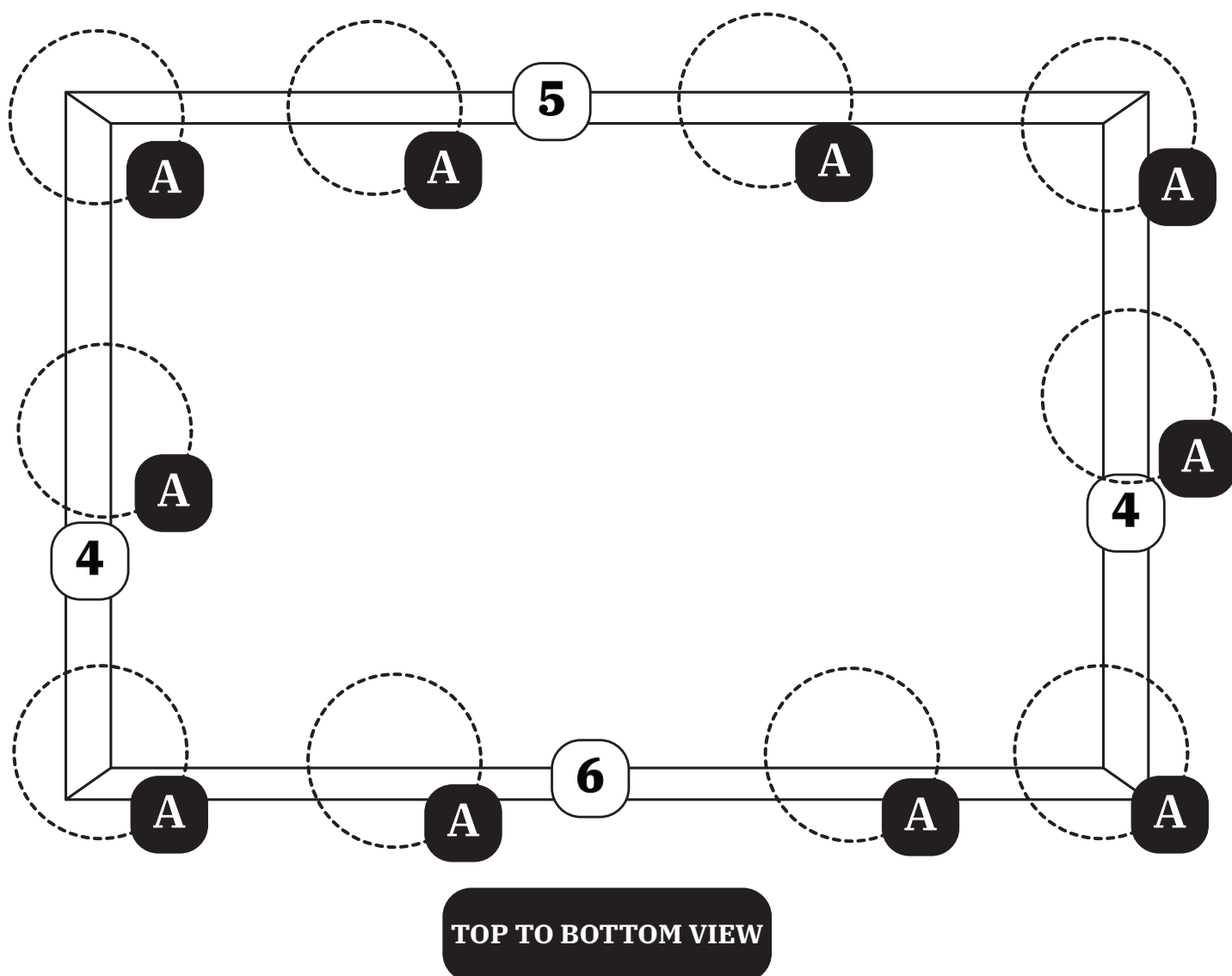
## Securing the greenhouse to the prefabricated Base



**OUTSIDE VIEW**  
**Front**

Part No.	Part	Qty.
B2		14

## Securing the greenhouse to the prefabricated Base Continued



**A**

Get inside the greenhouse and locate all the **F4 Bolts** on **4**, **5**, and **6**.

Unscrew the nuts.

Attach **B2** to the bolt, fasten the nut to secure the greenhouse to the base.

There are 14 **F4 Bolts**.

