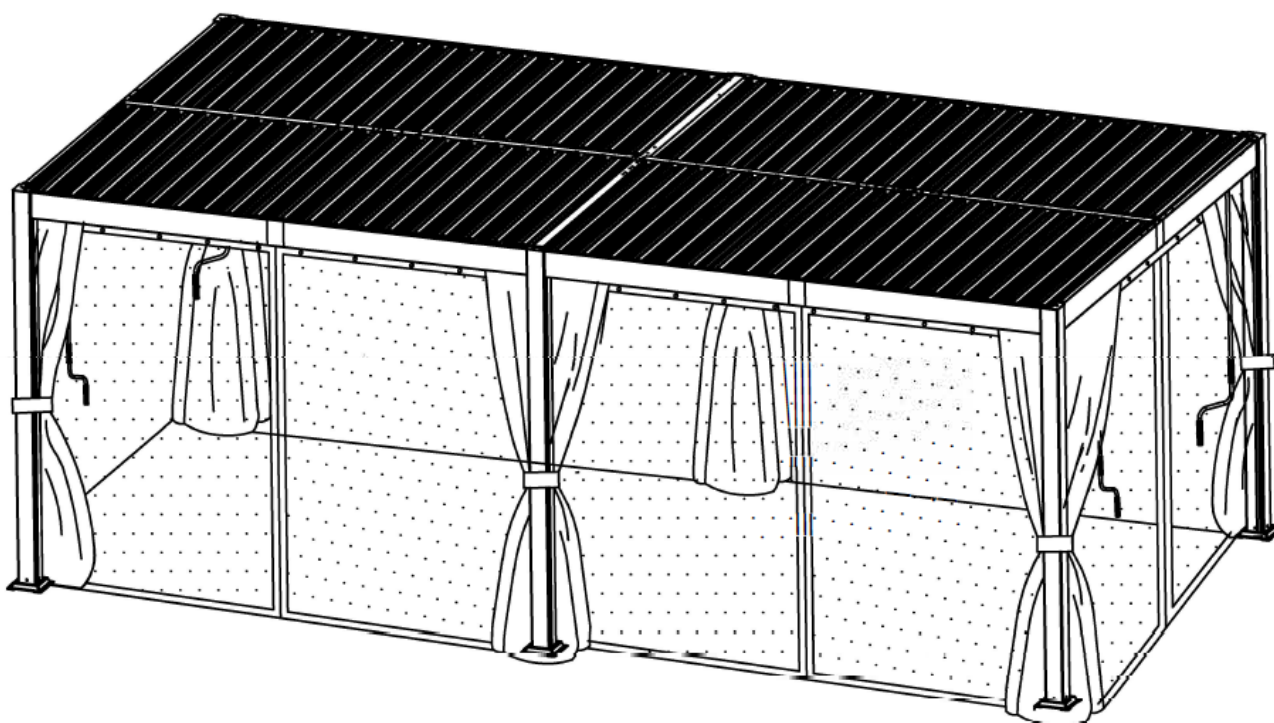


# INSTALLATION INSTRUCTIONS

## 12x20 ft Pergolas



**Our team is available 24/7 to help with any product questions. Contact us anytime!**

# Warning

- Please read and understand this manual carefully before assembly. Before starting to assemble the product, please ensure that all parts are present. Please check the parts against the packing list. If you find any missing parts, please contact us.
- Any assembly or maintenance work on this product must be performed by adults. We recommend that at least two adults be involved.
- Please check your state and local regulations before purchasing. Some areas may require a permit for the installation and use of this product. There may be specific procedures in your area.
- Please install the Pergola on a flat surface. Ground stakes are included with the product to secure the Pergola to the ground.
- Do not assemble the Pergola on sandy, muddy, or loose soil, as the ground stakes will not provide sufficient anchoring in these types of soil.
- If you wish to secure the Pergola to a wooden deck or concrete surface, please use anchor bolts suitable for these surfaces.
- Some parts may contain sharp edges. Protective gloves are recommended.
- Keep children and pets away while assembling the Pergola.
- Regularly check all nuts and bolts to ensure they are tightened.
- Before starting assembly, carefully read each step and ensure you understand each step.
- Please refer to the diagrams. Place all parts from the box in a clean area and lay them flat on the floor in front of you.
- Remove all packaging materials and place them back in the box. Do not discard the packaging materials until assembly is complete.

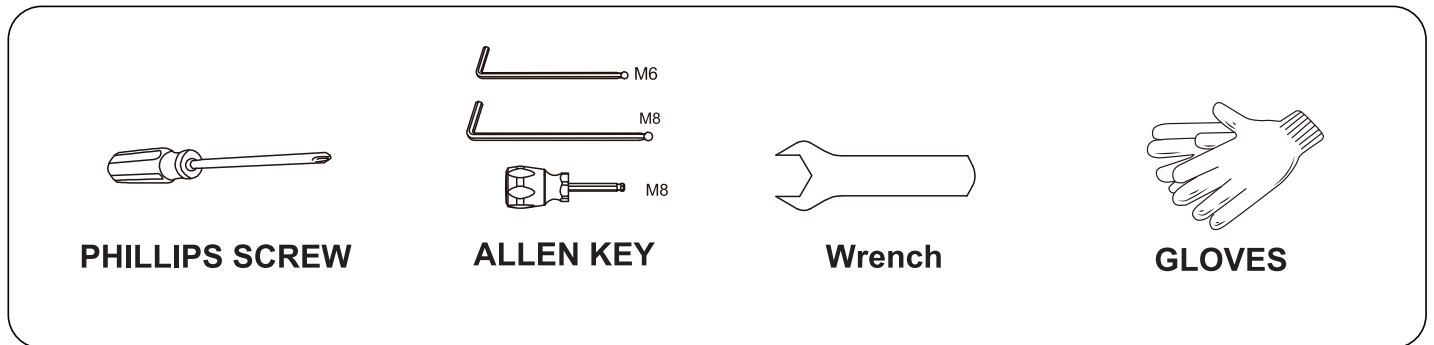
# Maintenance

- Snow must be removed regularly during snowy weather. Remove snow when the snow accumulation on the roof exceeds 2 inches (5 cm). To avoid damage, use a plastic snow rake to remove excess snow and ice from the roof, and be careful to stay clear of falling debris.
- This Pergola is for decorative and shading purposes only and is not designed to withstand severe weather conditions, including strong winds, heavy rain, and heavy snow.
- The steel components of this Pergola are coated with rust-resistant paint. However, due to the inherent properties of steel, oxidation (rusting) may still occur on the surface if the protective coating is scratched. This is not a product defect and is therefore not covered under warranty.
- To minimize this occurrence, it is recommended to handle the product carefully during assembly and handling to avoid scratching the paint. If any scratches or damage occur, it is recommended to immediately repair the scratches with rust-resistant paint (not included).
- Do not use bleach, acid, or other abrasive cleaners on the roof or frame components.
- Please keep these instructions for future reference.

# Pre-assembly

## TOOLS THAT MAY BE REQUIRED (included in boxes)

**\*NOTE: Tools /equipment are not shown to actual size and scale.**



## EQUIPMENT REQUIRED (Not included in boxes)

**\*NOTE: Equipment are not shown to actual size and scale.**



## Matters needing attention



1. Two or more people are required for assembly.



2. Do not fully tighten screws prior to complete assembly.



3. Use a spirit level. Before proceeding, check that the device or component is perfectly level.



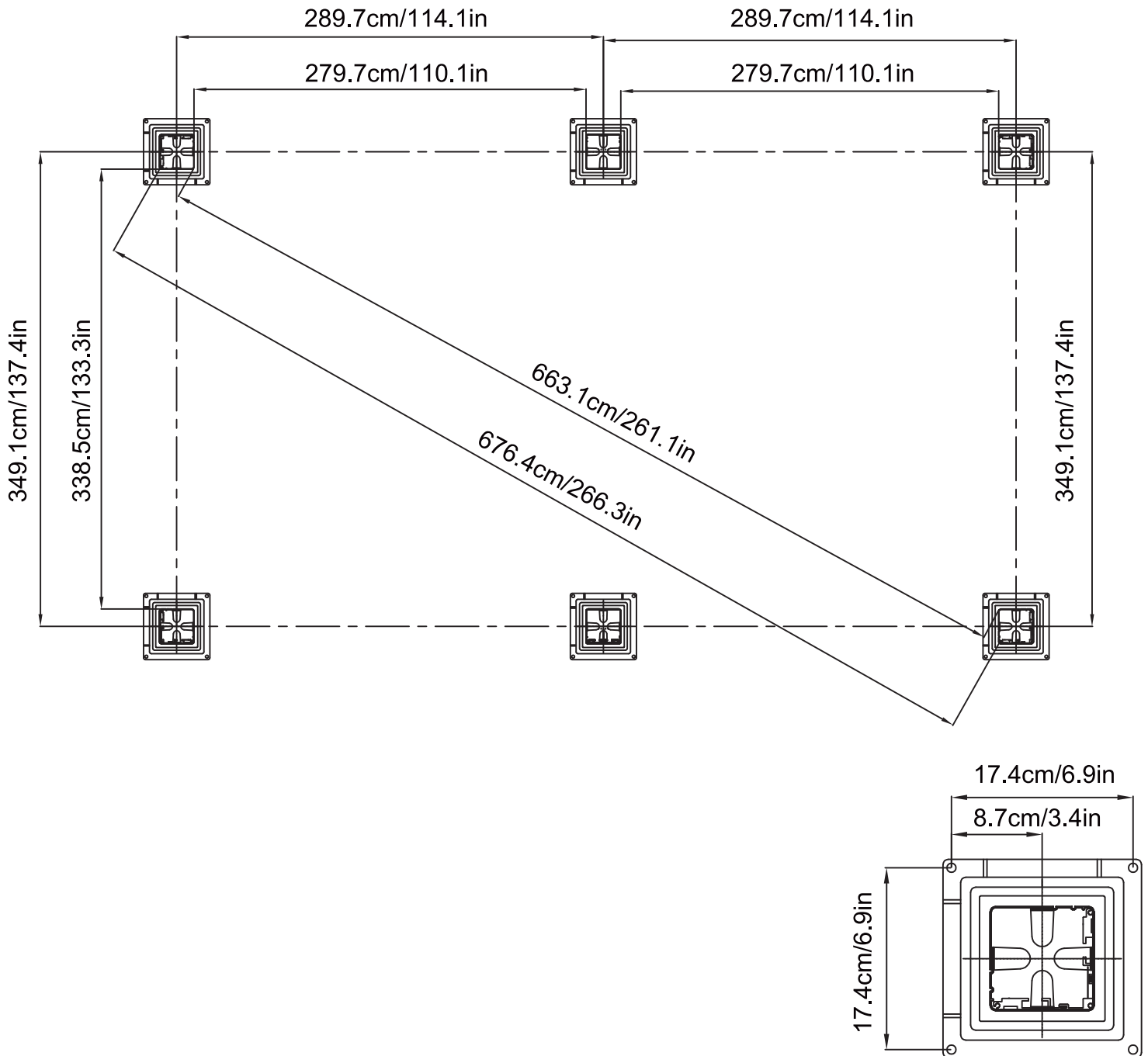
4. Use a square to check: Before tightening the bolts, check that the assembly is square.



5. Do not overtighten the mounting bolts. Overtightening can cause the wood to crack, splinter, and result in other structural damage.

# INSTALLATION BLUEPRINT

## 12'x20'

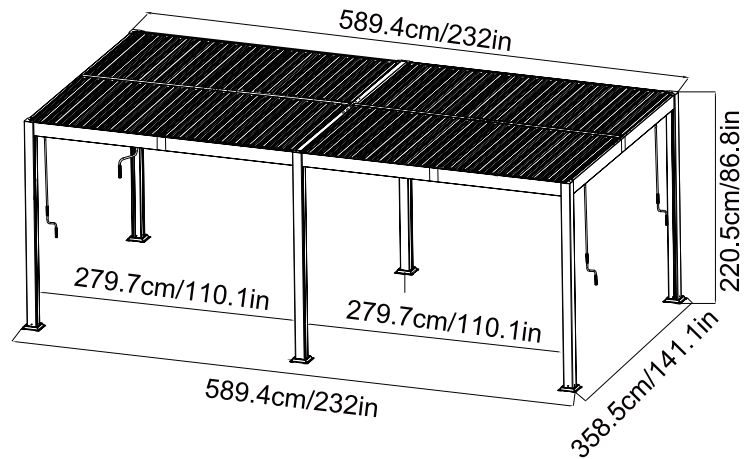
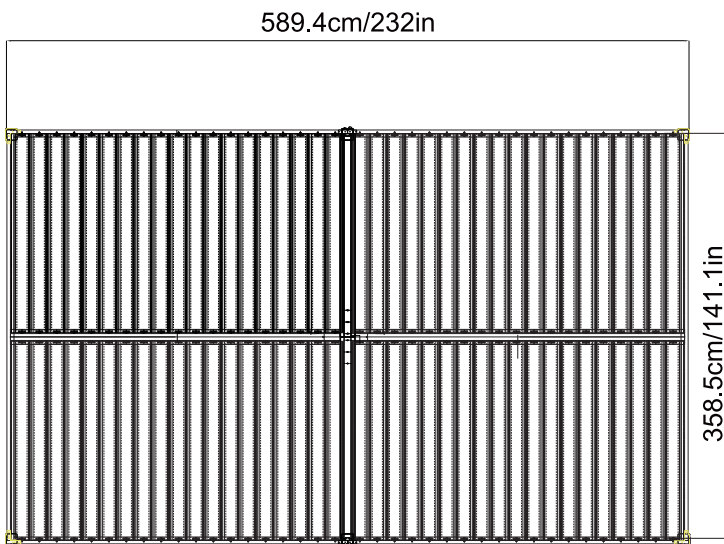
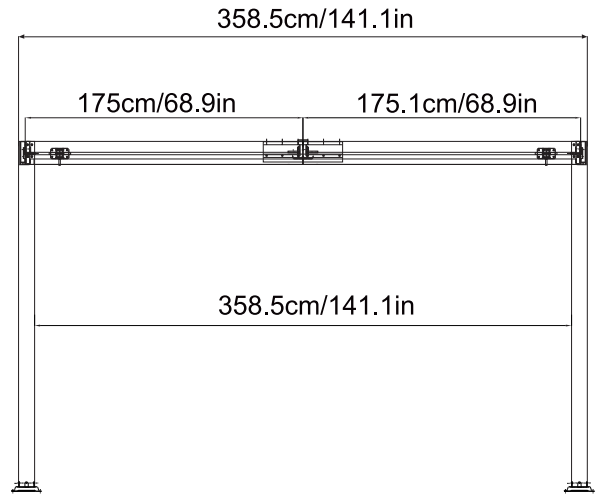
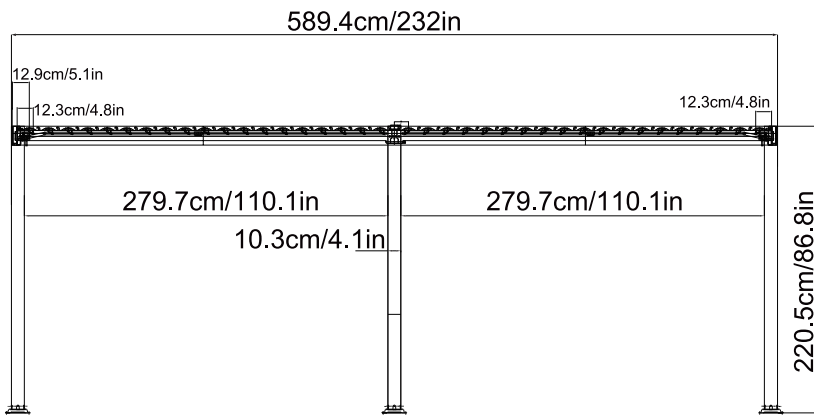


The width dimension error is restricted to 3MM.

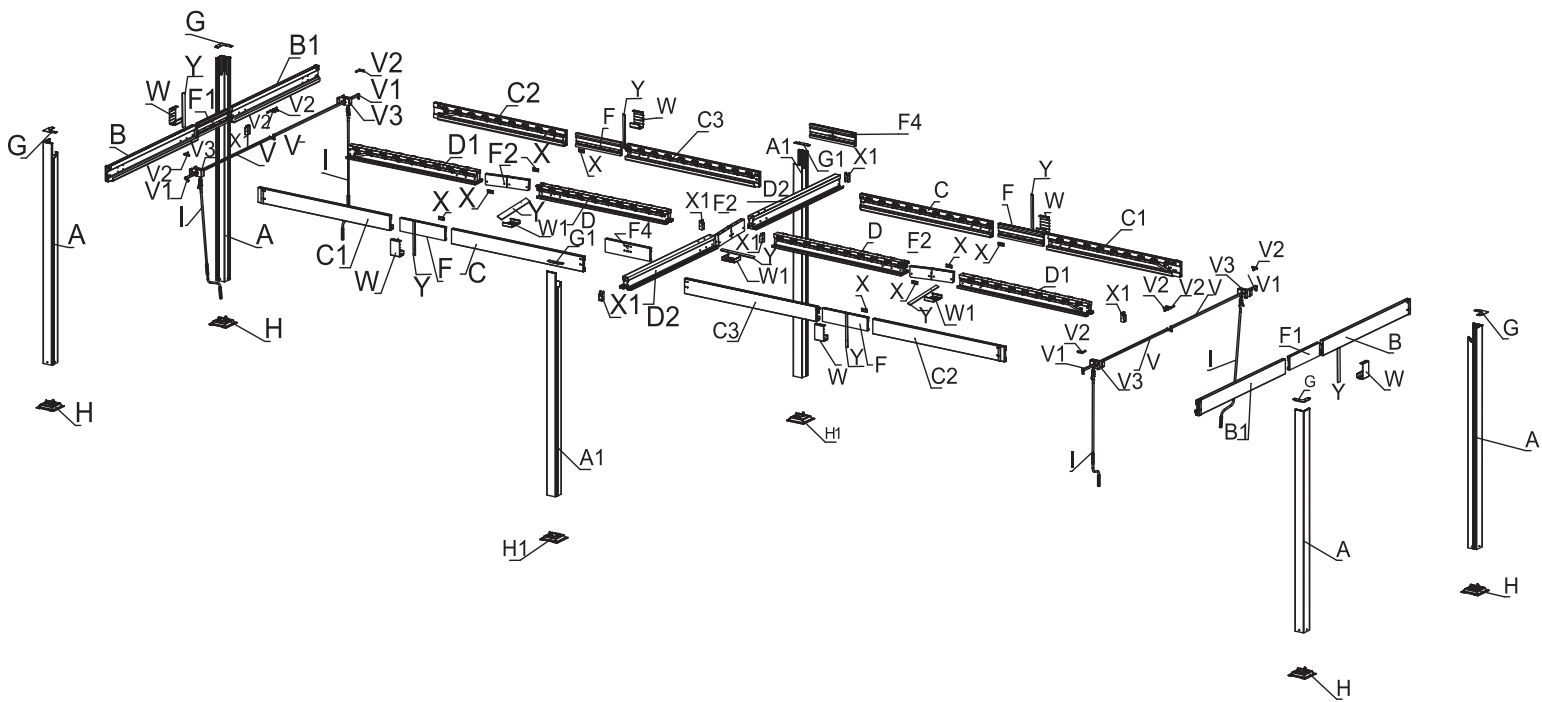
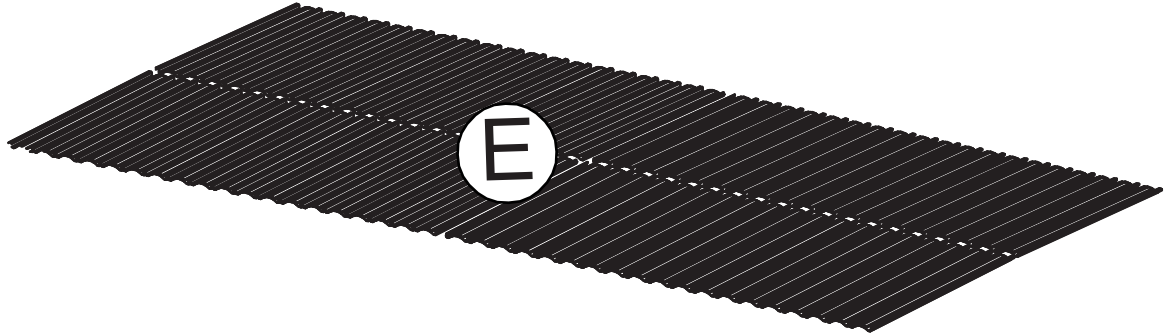
Diagonal line error should be limited to 5MM

# PRODUCT DIMENSIONS

















## 12'x20'

















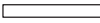
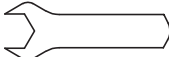


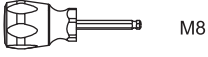

# EXPLODED DRAWING






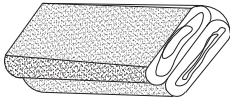
# Part Lists

Part Number	Part Image	Description	QTY
A		column	4
A1		Neutral column	2
B		crossbeam	2
B1		crossbeam	2
C		crossbeam	2
C1		crossbeam	2
C2		crossbeam	2
C3		crossbeam	2
D		crossbeam	2
D1		crossbeam	2
D2		crossbeam	2
E		blinds	76
F		lining	4
F1		lining	2
F2		lining	3
F4		lining	2





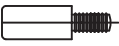

# Part Lists

Part Number	Part Image	Description	QTY
G		Column top cover	4
G1		Top cover of central pillar	2
H		chassis	4
H1		chassis	2
I		rocker arm	4
S		plastic cover	152
V		rotating tube	4
V1		rotating tube	4
V2		rotating shaft	8
V3		gearbox	4
W		Beam sheath	6
W1		Beam sheath	3
X		connector	8
X1		connector	6
Y		3M adhesive	10
O		hex key	1
P2		hex key	2
Q		hex key	1
Q1		Hexagonal screwdriver	1
R1		Phillips screwdriver	1

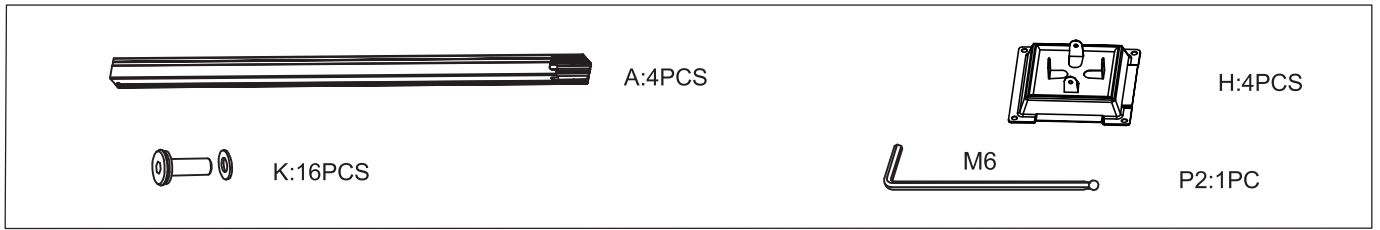
## Part Lists

Part Number	Part Image	Description	QTY
T1		plastic plug	24
U		plastic hook	128
U1		enclosure cloth	6
U2		mesh	6

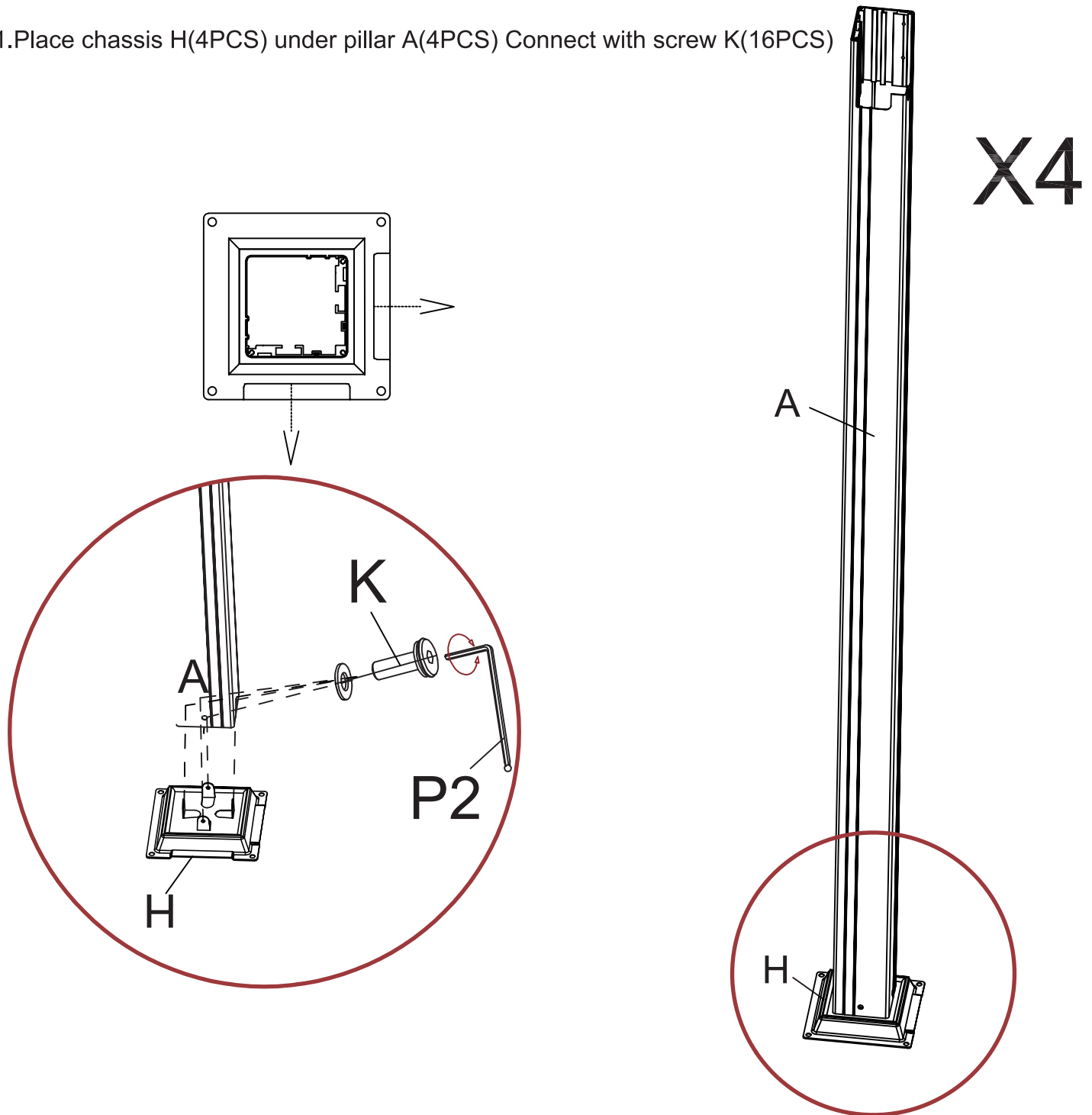
## Hardware Pack

Part Number	Part Image	Description	QTY
J	 M4.2x25	self-tapping screw	18
K	 M6*16	Flat head hexagonal screw	386
L	 M6x62	expansion bolt	24
M	 M6x8	Countersunk hexagonal screw	16
N	 M6x35	High foot screw	24
N1	 M6x25	High foot screw	10

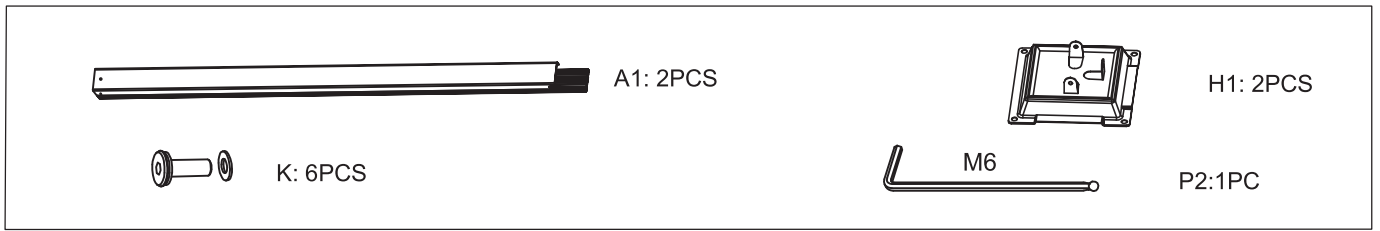
# STEP 1: Install upright posts



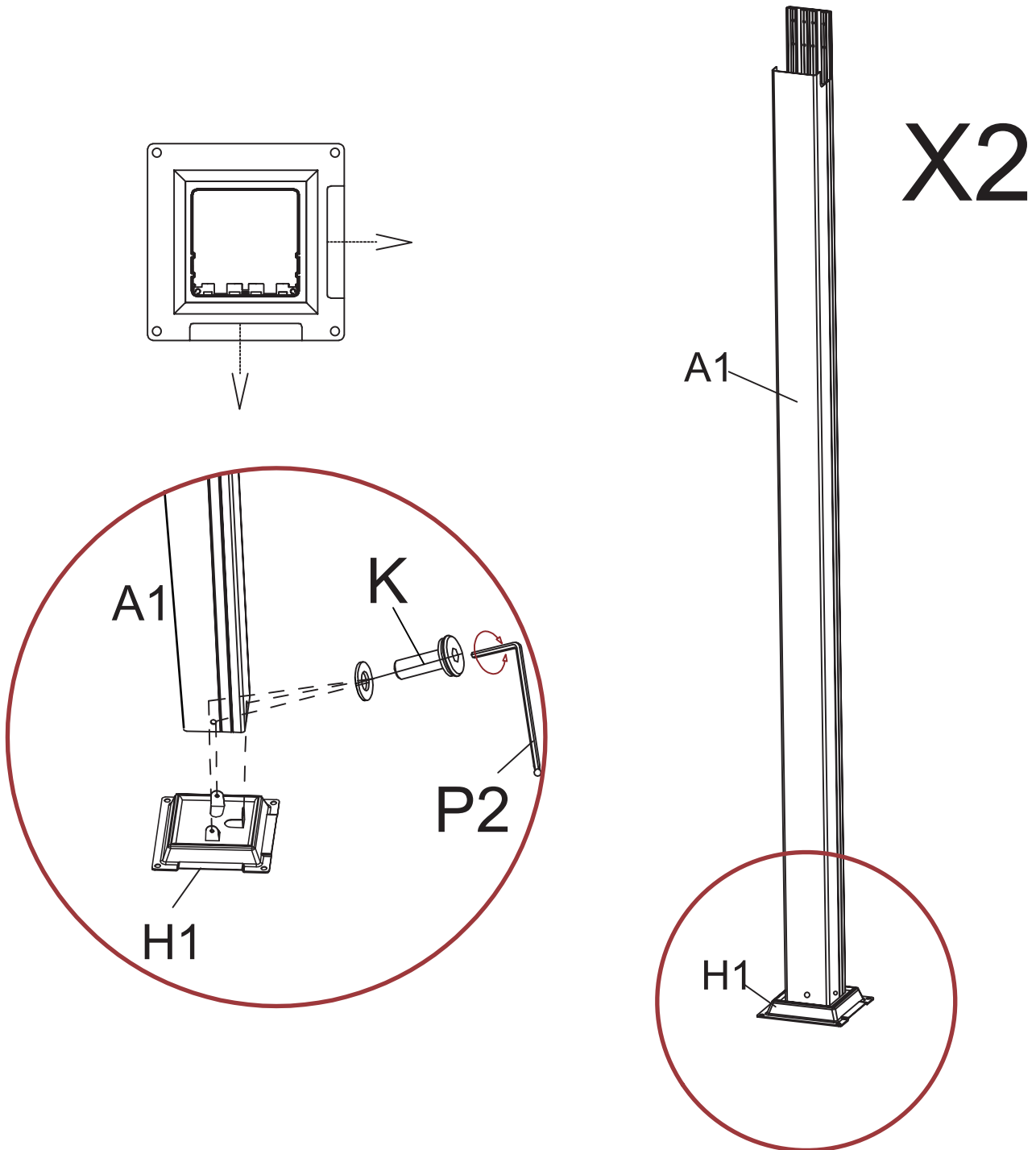
1. Place chassis H(4PCS) under pillar A(4PCS) Connect with screw K(16PCS)



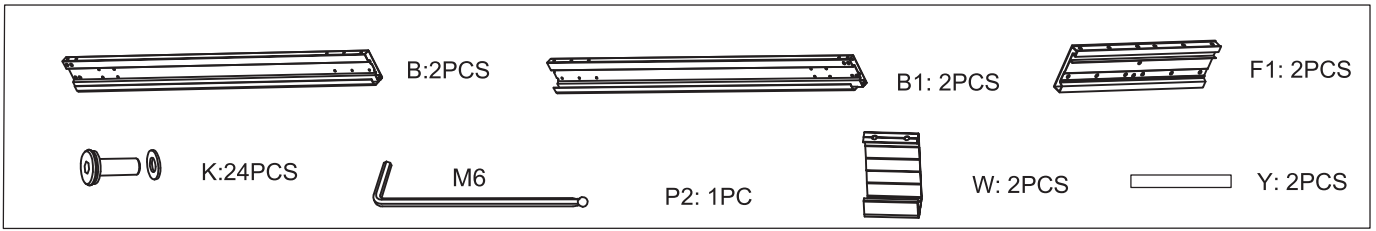
# STEP 2: Install the central pillar



1. Place chassis H1(2PCS) under center pillar A1(2PCS) Connect with screw K(6PCS)



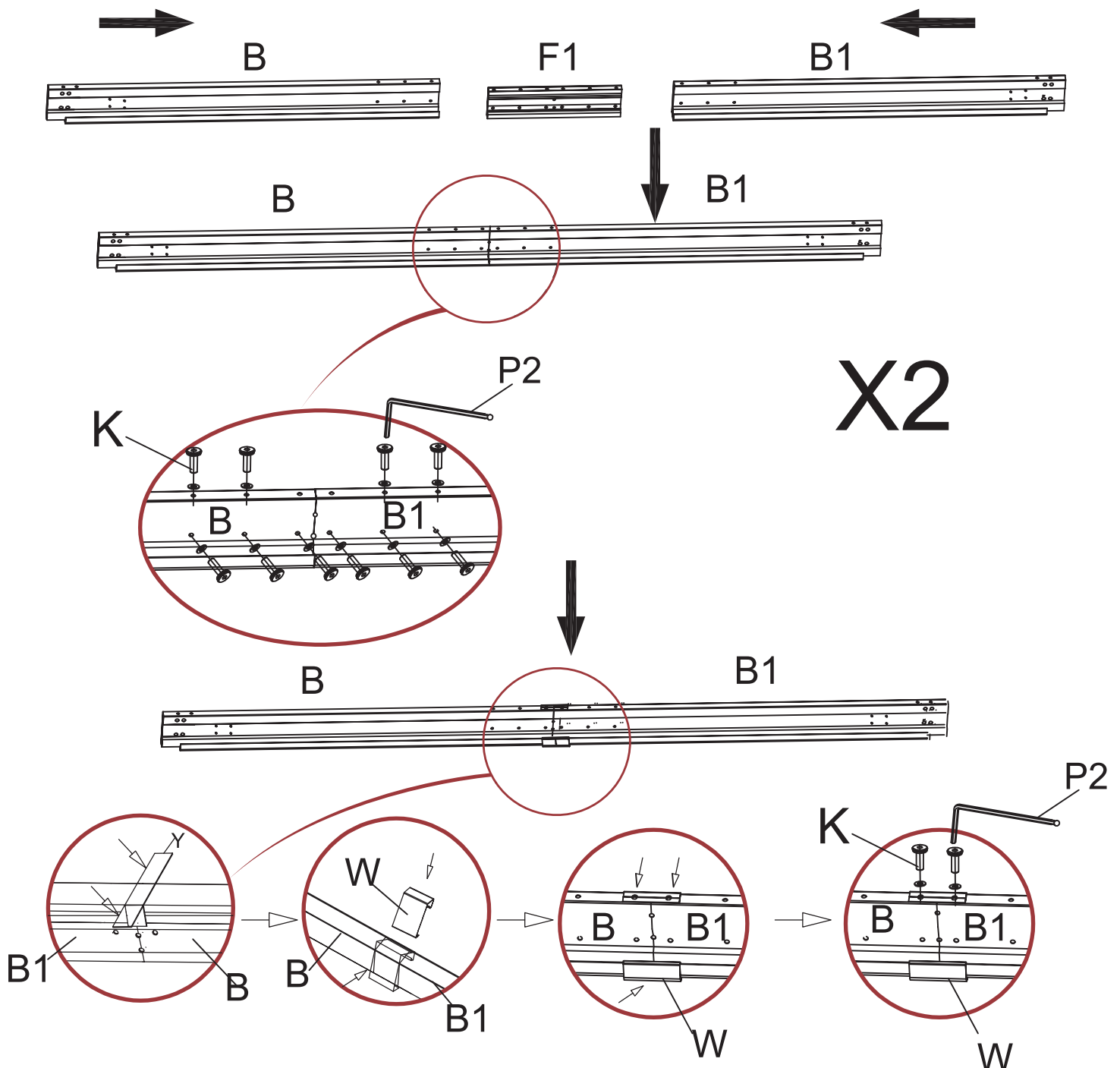
# STEP 3: crossbeam B/crossbeam B1 connection



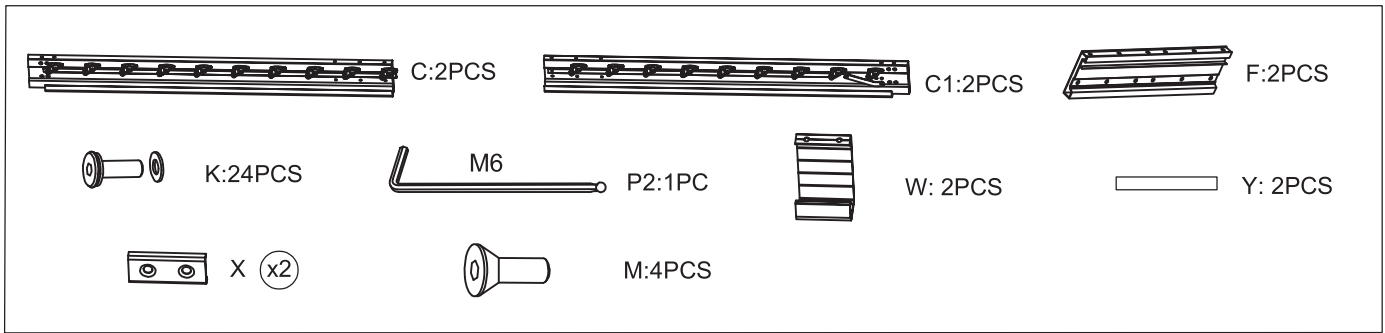
1. Connect crossbeam B (2PCS) and crossbeam B1 (2PCS) through crossbeam lining F1 (2PCS) with screw K (24PCS)

2. Apply 3M adhesive Y (2PCS) to the joint of the crossbeam, and then install the crossbeam cover W (2PCS). Connect with screw K (24PCS)

**3. Attention: Use a scraper to tightly adhere the 3M adhesive to the gap, otherwise water leakage may occur.**



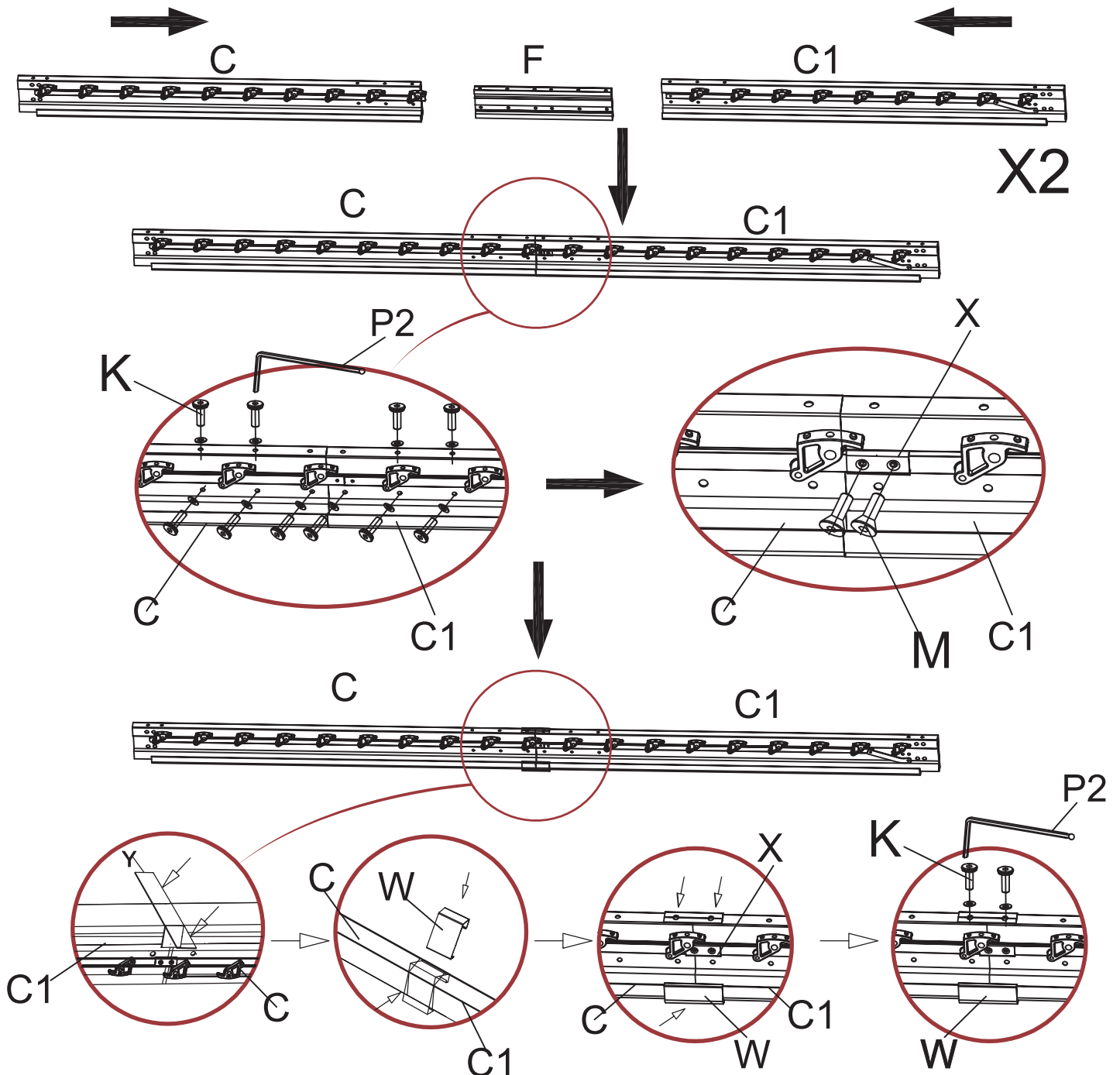
# STEP 4: Connection of crossbeam C/crossbeam C1



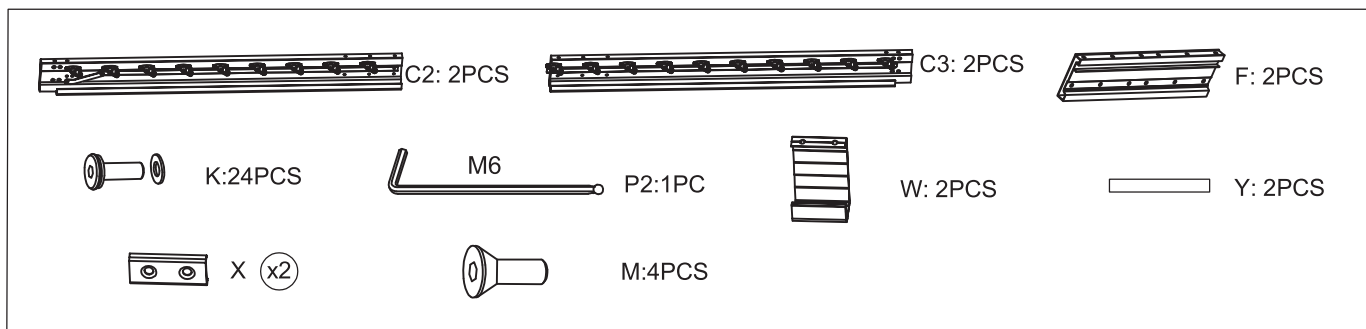
1. Connect crossbeam C (2PCS) and crossbeam C1 (2PCS) through crossbeam lining F (2PCS) and screw K (24PCS) together.

2. Apply 3M adhesive Y (2PCS) to the joint of the crossbeam, and then install the crossbeam cover W (2PCS). Connect with screw K (24PCS).

**3. Attention: Use a scraper to tightly adhere the 3M adhesive to the gap, otherwise water leakage may occur.**



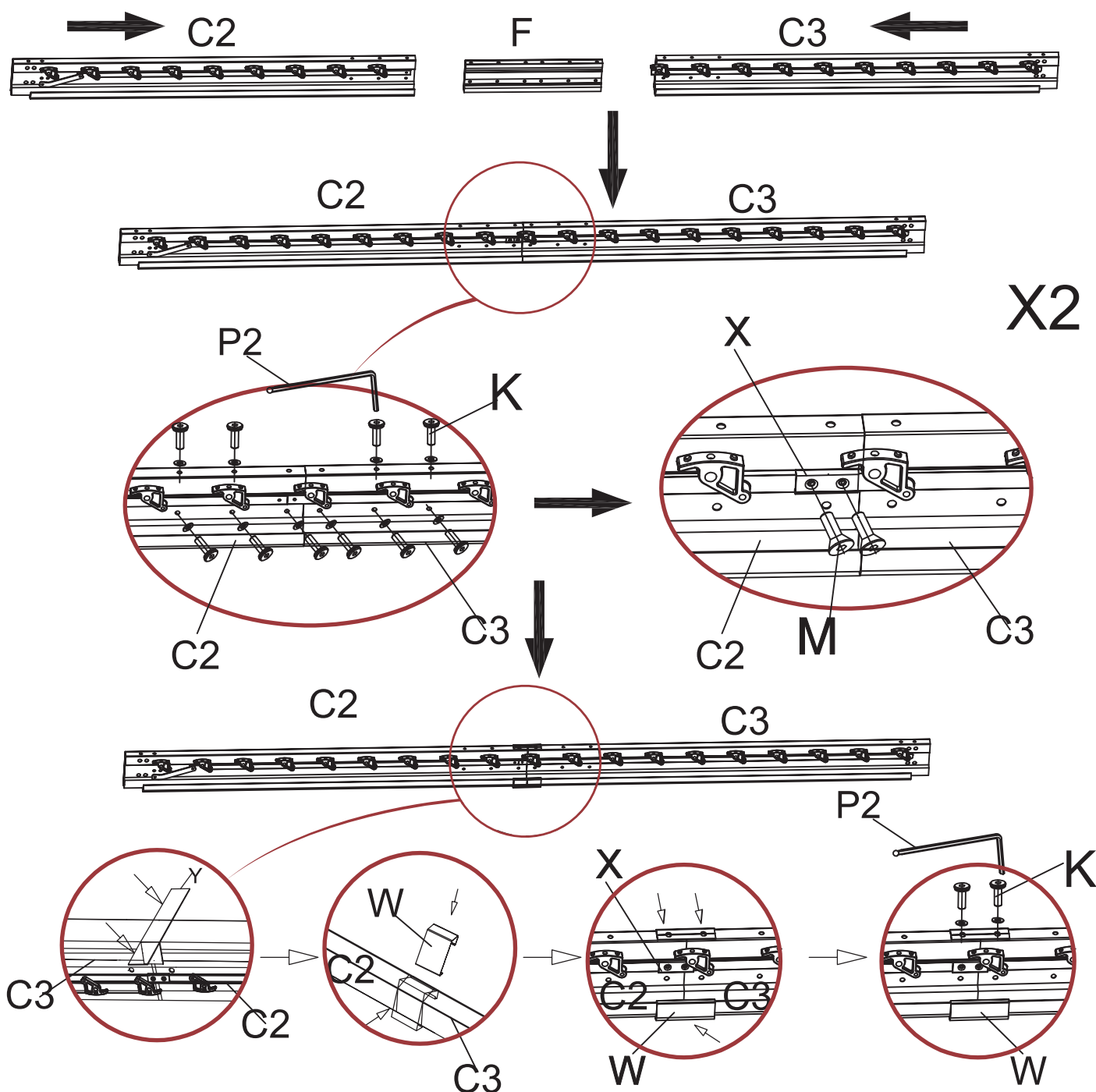
# STEP 5: Connection of crossbeam C2/crossbeam C3



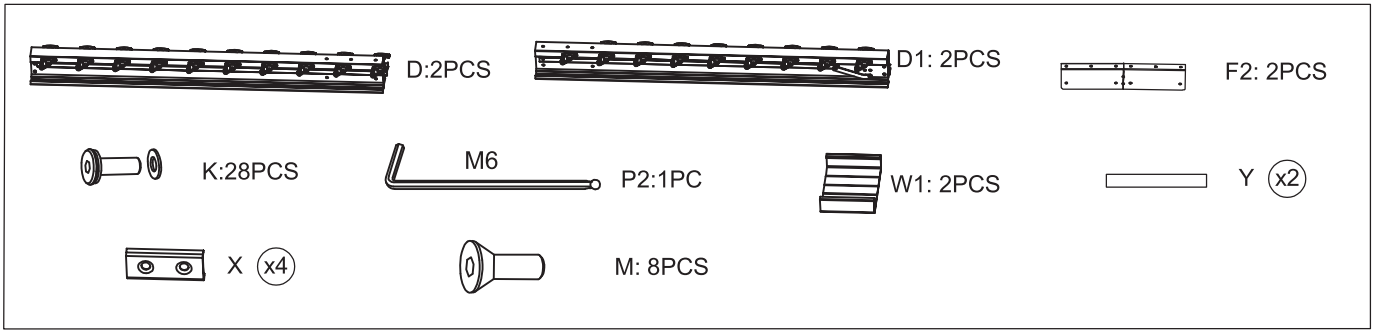
1. Connect crossbeam C2(2PCS) and crossbeam C3(2PCS) through crossbeam lining F(2PCS) and screw K(24PCS) together.

2. Apply 3M adhesive Y(2PCS) to the joint of the crossbeam, and then install the crossbeam cover W(2PCS) Connect with screw K(24PCS).

**3.Attention: Use a scraper to tightly adhere the 3M adhesive to the gap, otherwise water leakage may occur.**



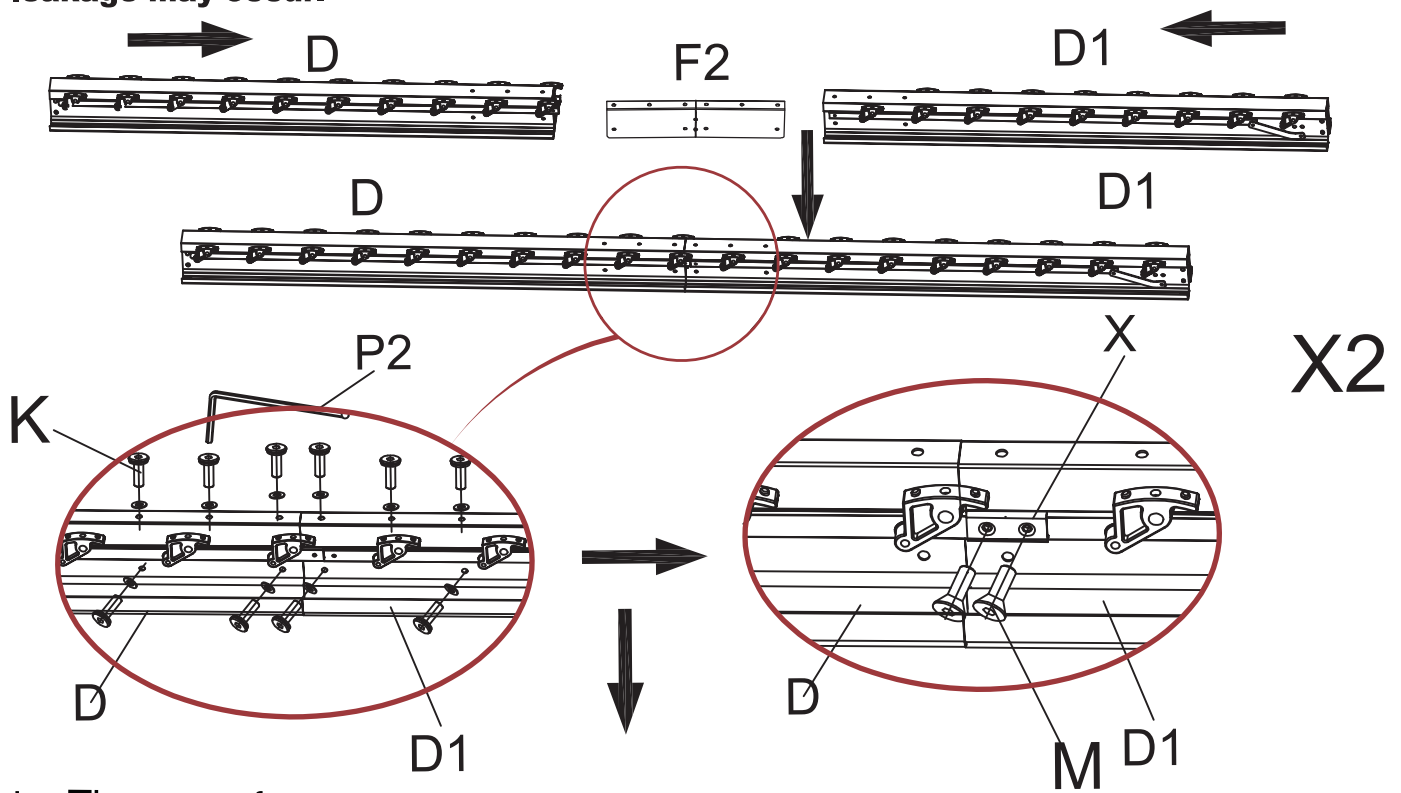
# STEP 6: Connection of crossbeam D/crossbeam D1



1. Connect crossbeam D (2PCS) and crossbeam D1 (2PCS) through crossbeam lining F2 (2PCS) with screw K (28PCS).

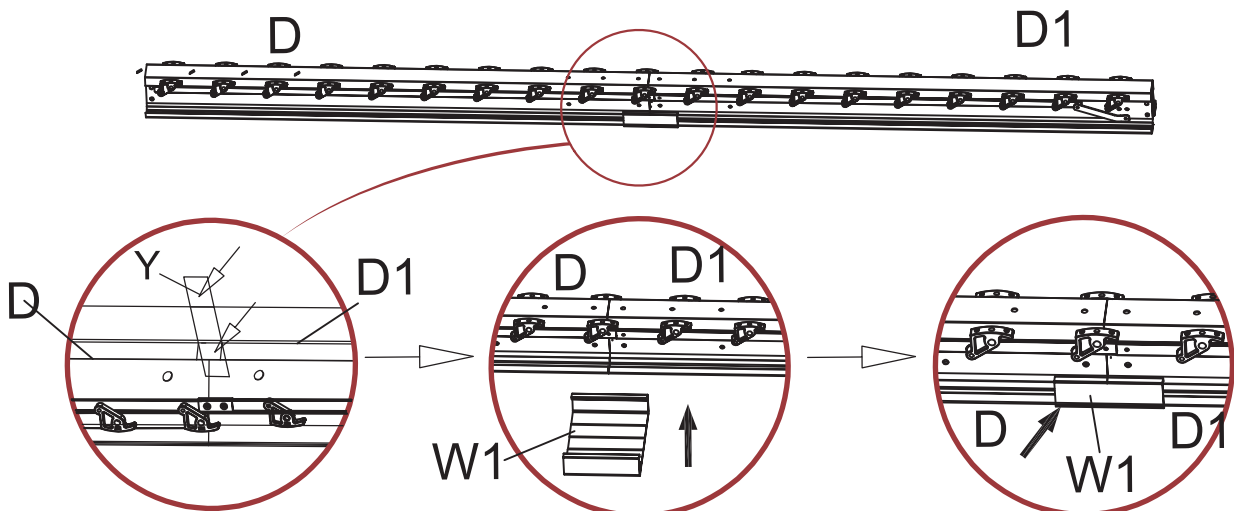
2. Apply 3M adhesive Y (2) to the joint of the crossbeam, and then install the crossbeam cover W1 (2PCS). Connect with screw K (28PCS).

**3. Attention: Use a scraper to tightly adhere the 3M adhesive to the gap, otherwise water leakage may occur.**

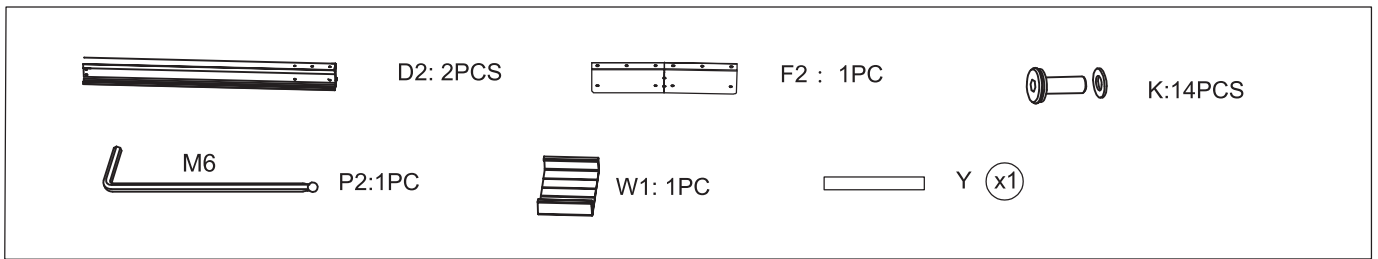


Note: There are four screws on the back.

Nota: cuatro tornillos en la parte posterior.



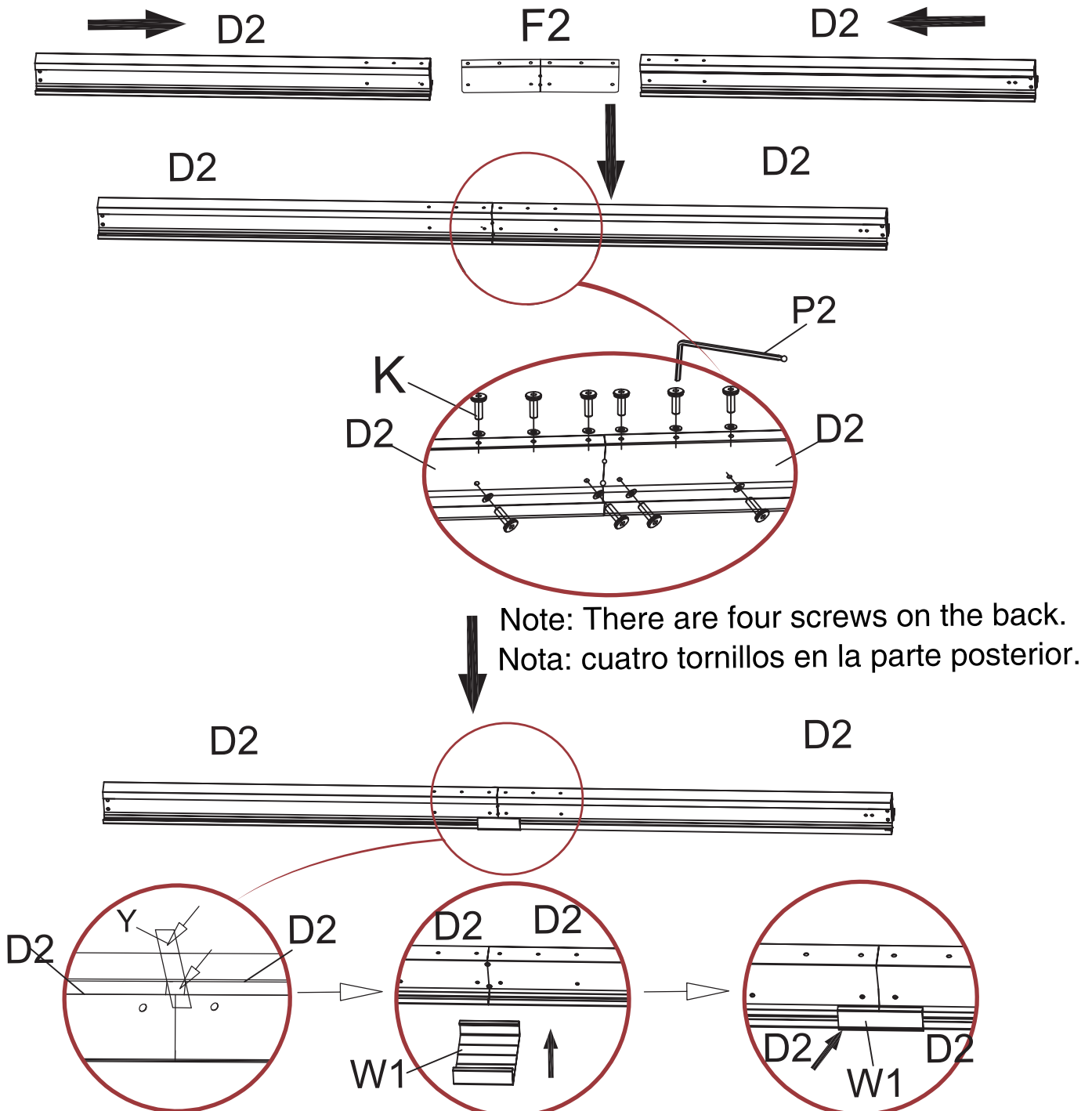
# STEP 7: Connection of crossbeam D2/crossbeam D2





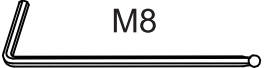

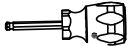
1. Connect crossbeam D2(2PCS) and crossbeam D2(2PCS) through crossbeam lining F2(1PCS) with screw K(14PCS).

2. Apply 3M adhesive Y(1) to the joint of the crossbeam, and then install the crossbeam cover W1(1PCS). Connect with screw K(14PCS).

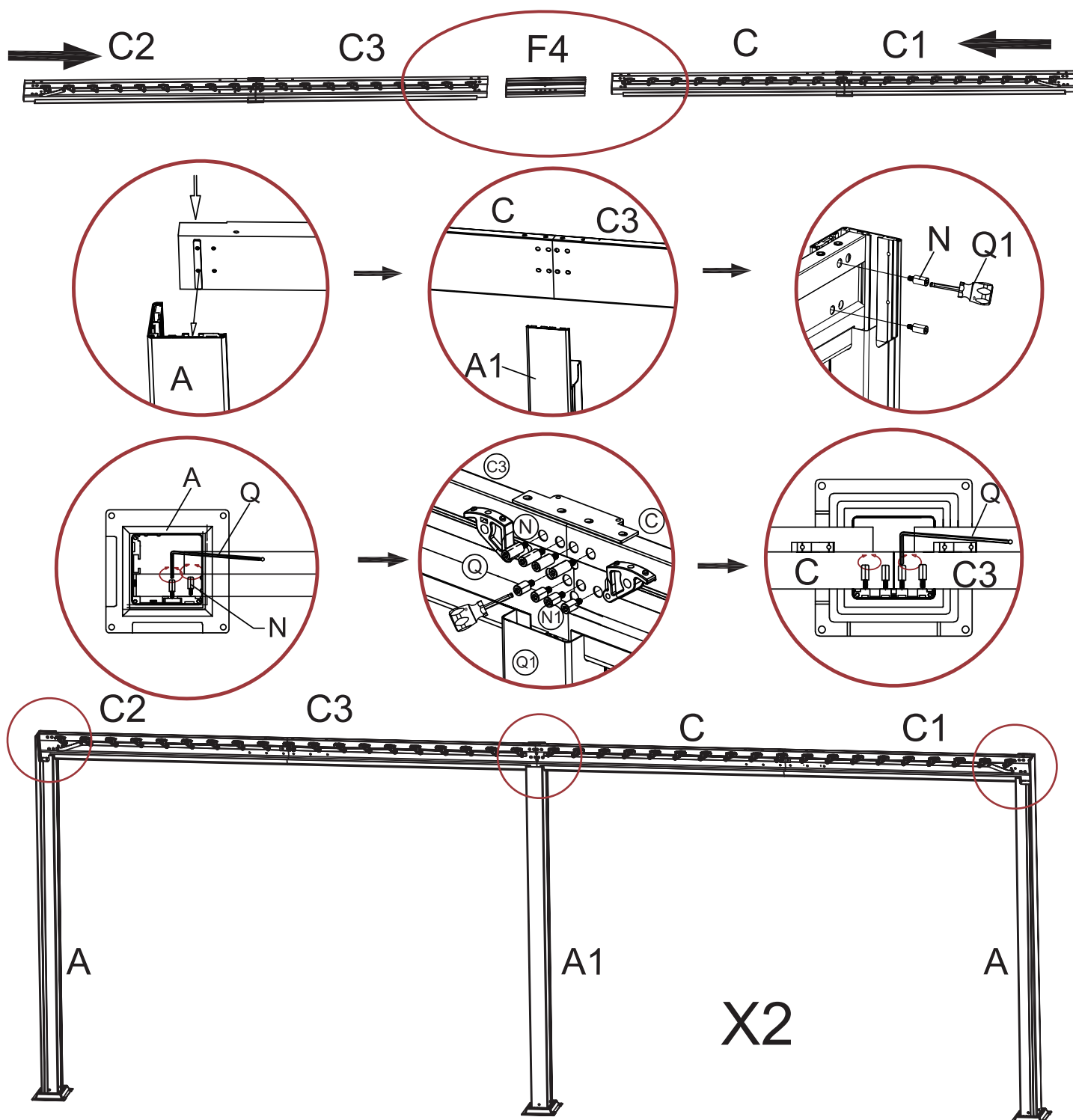
**3. Attention: Use a scraper to tightly adhere the 3M adhesive to the gap, otherwise water leakage may occur.**



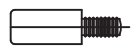
# STEP 8: Connection of crossbeam/column/center column

	F4:2PCS		N:16PCS		M8	Q:1PCS
			N1:8PCS			Q1:1PCS

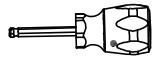
1. Insert F4(2PCS) into crossbeam C and crossbeam C3.
2. Insert the assembled crossbeams C1/C/C3/C2 from top to bottom into the square slots of pillar A and center pillar A1.
3. First, use wrench Q1(1PCS) to lock screw N(16PCS) in Tighten with wrench Q (1PCS) again.



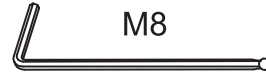
# STEP 9: crossbeam B/crossbeam B1/Column Connection



N:8PCS



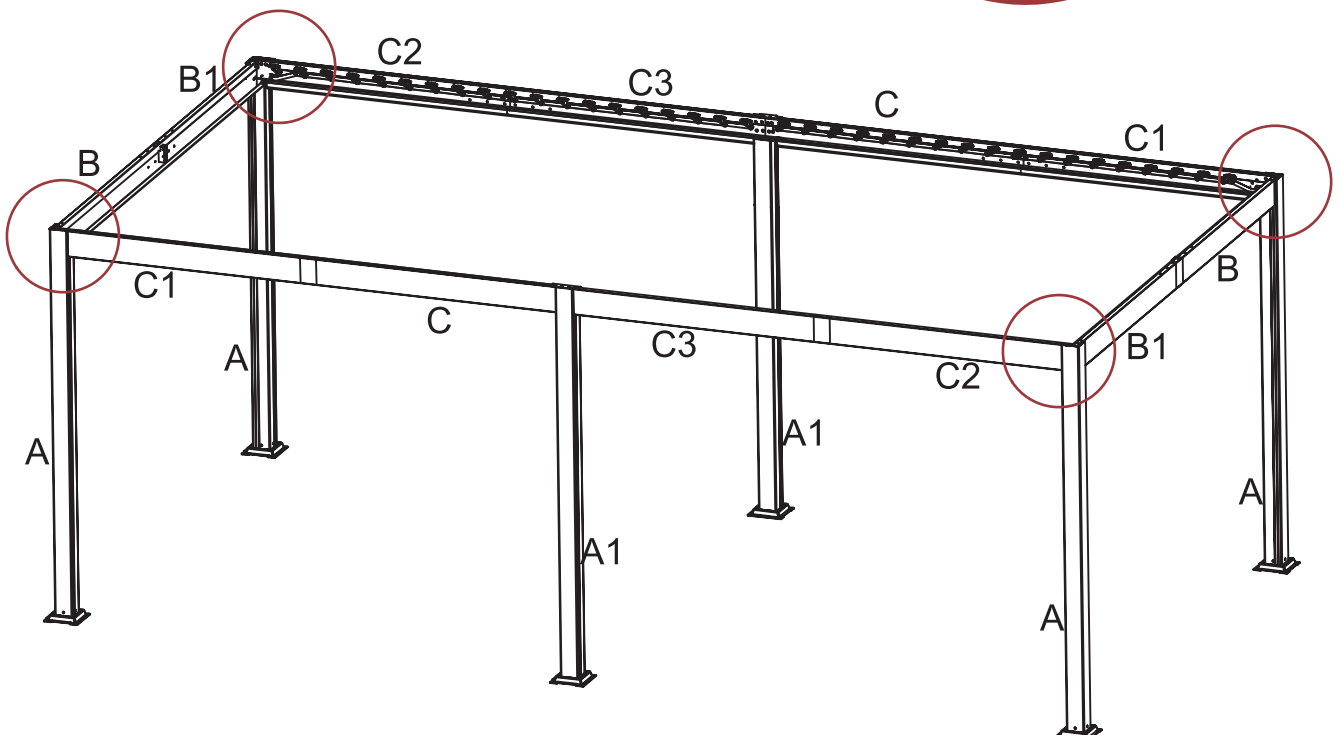
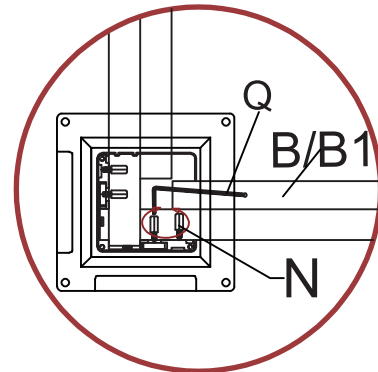
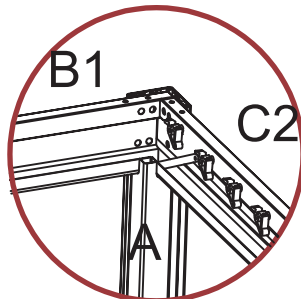
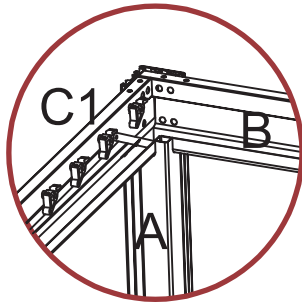
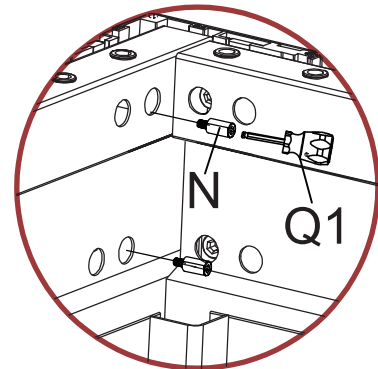
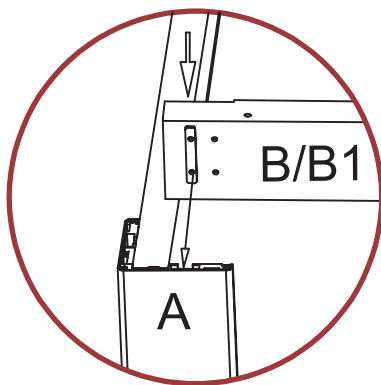
Q1:1PCS



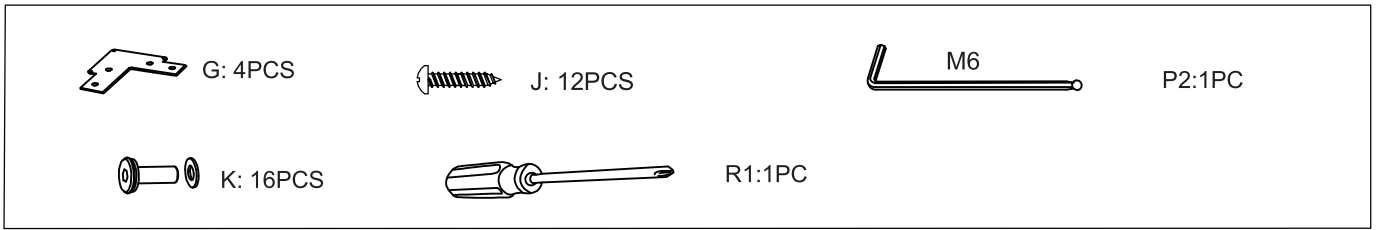
M8

Q:1PCS

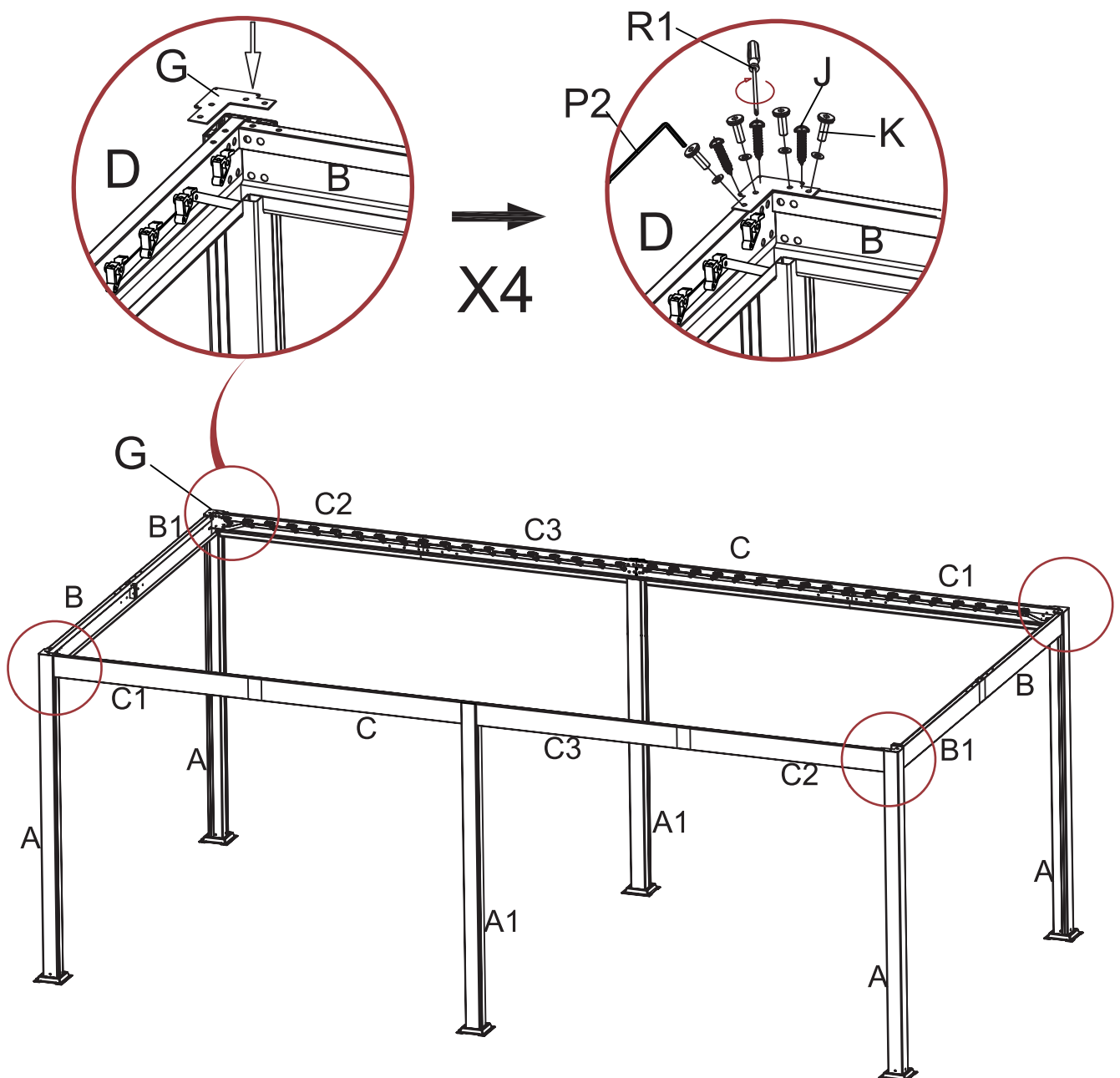
1. Insert the assembled crossbeam B/B1 into the square groove of column A from top to bottom.
2. First, use wrench Q1(1PCS) to lock screw N(8PCS) in Tighten with wrench Q(1PCS) again.



# STEP 10: Install the top cover of the column



1. Place the top cover G(4PCS) of the pillar on top of pillar A. Fix with self tapping screw J(12PCS) Secure with screw K(16PCS) again.



# STEP 11: Install the top cover of the central pillar

G1: 2PCS

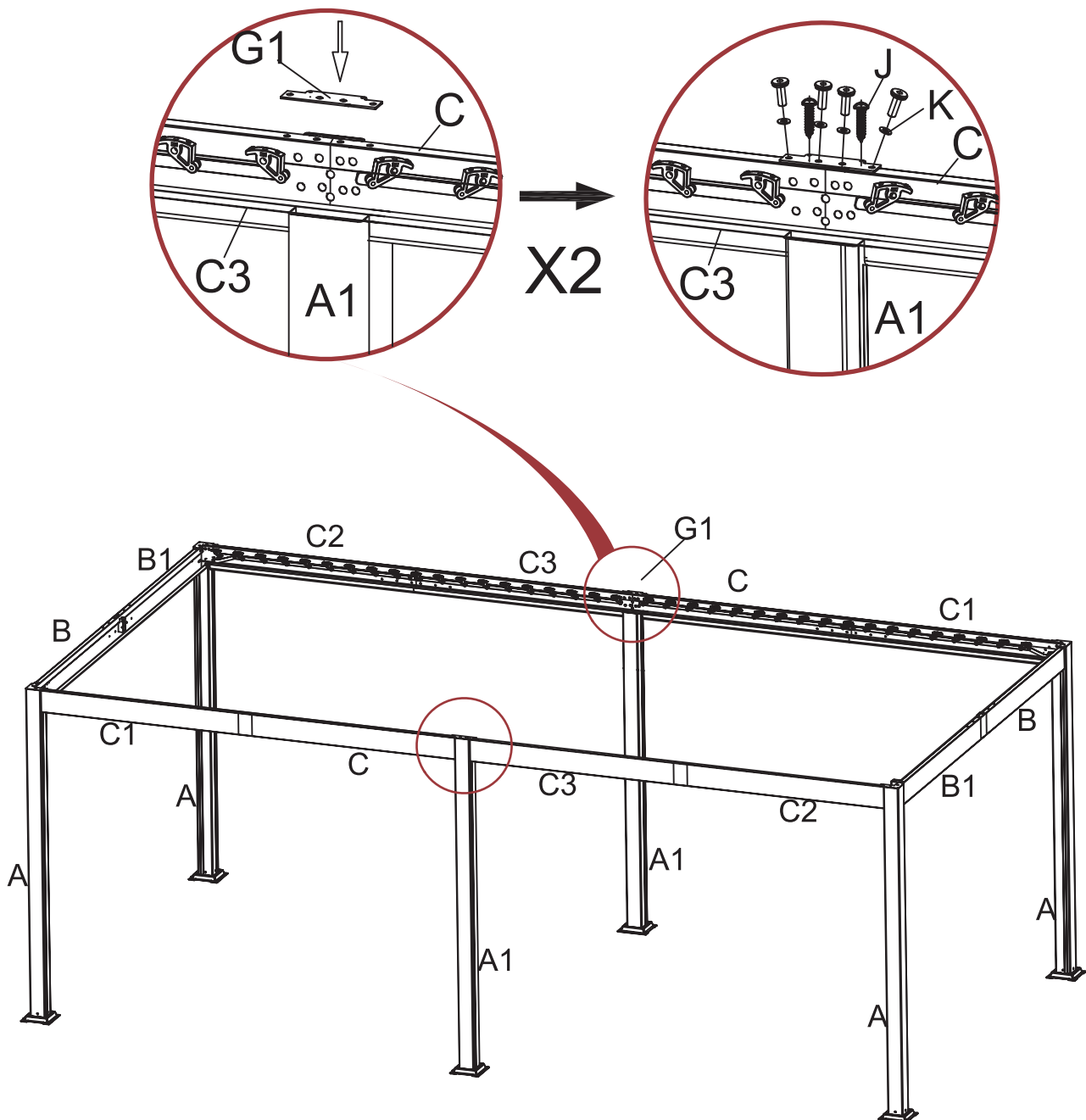
J: 4PCS

M6 P2:1PC

K: 8PCS

R1:1PC

1. Place the top cover G2 of the center pillar on top of the center pillar A1. Fix with self tapping screw J (4PCS). Secure with screw K (8PCS) again.



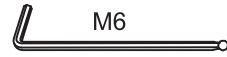
# STEP 12: Installation connector



X1:4PCS



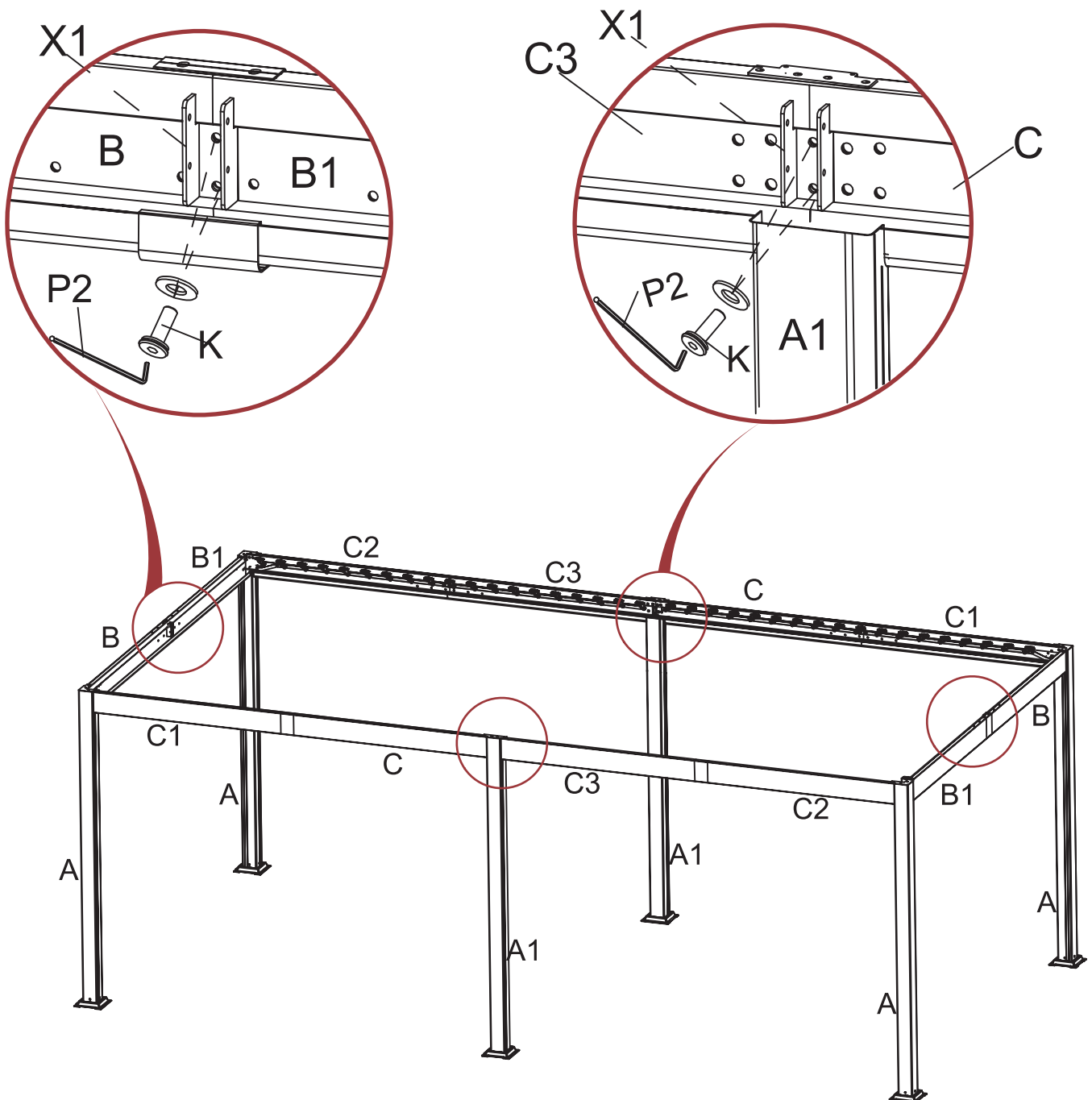
K:8PCS



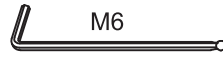
M6

P2:1PC

1. Secure connector X1(4PCS) to the joint of crossbeam B/B1 and crossbeam C/C3 using screw K(8PCS).

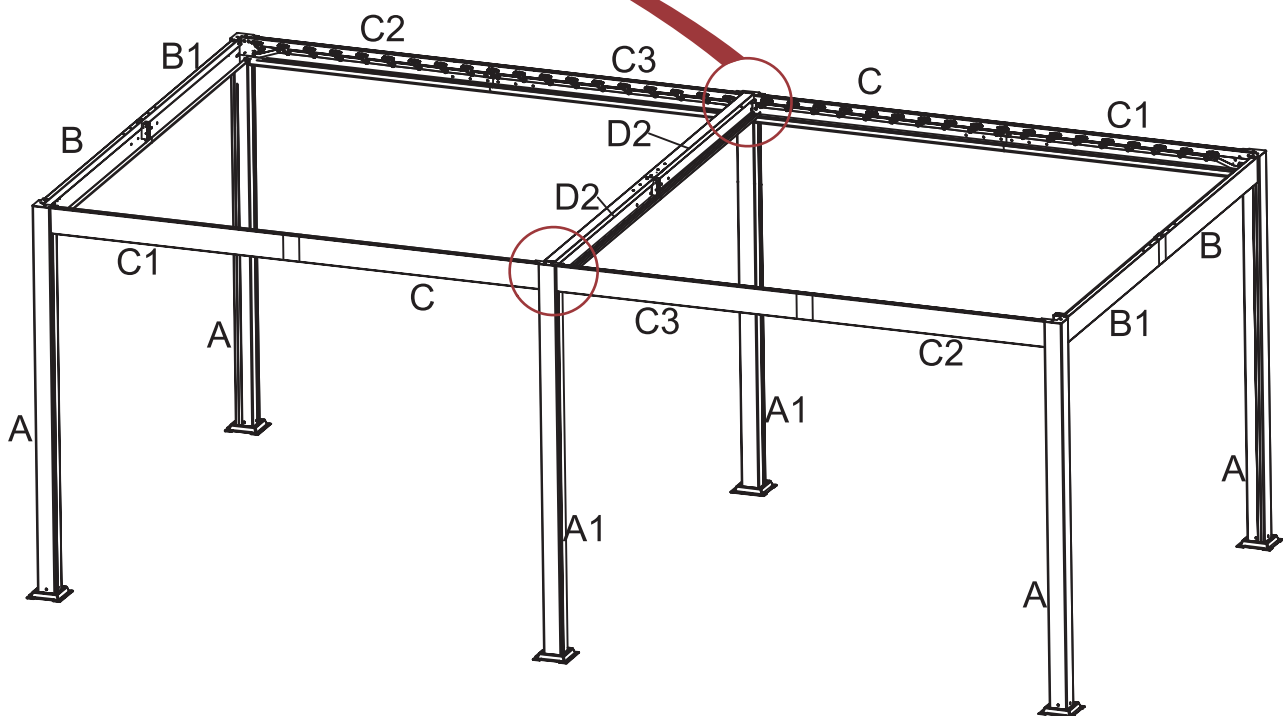
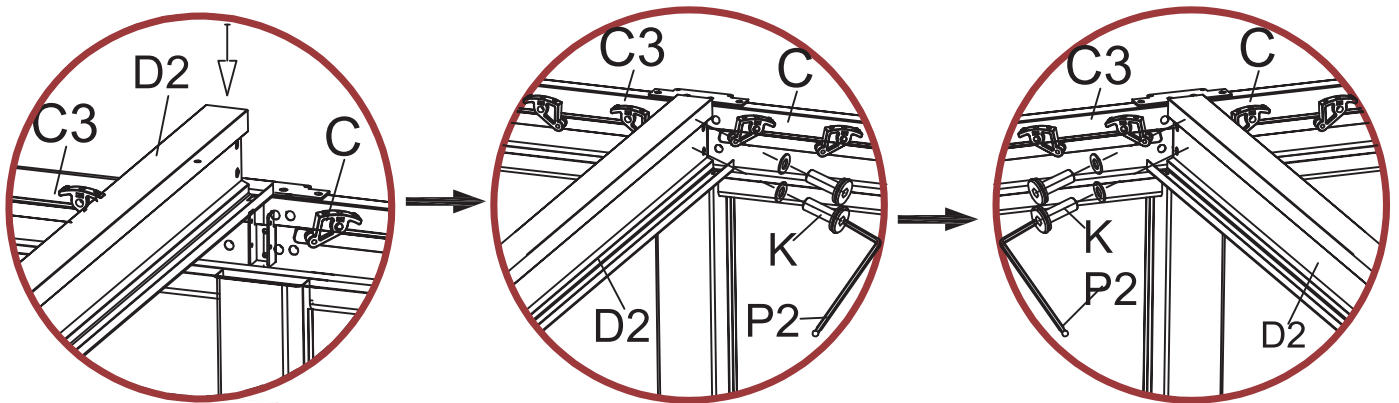


# STEP 13: Install the middle crossbeam



P2: 1PC

1. Align the middle crossbeam D2 from top to bottom and insert it into the connector X1. Use screw K(8PCS) to fix both sides.



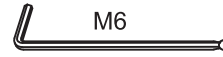
# STEP 14: Installation connector



X1:2PCS



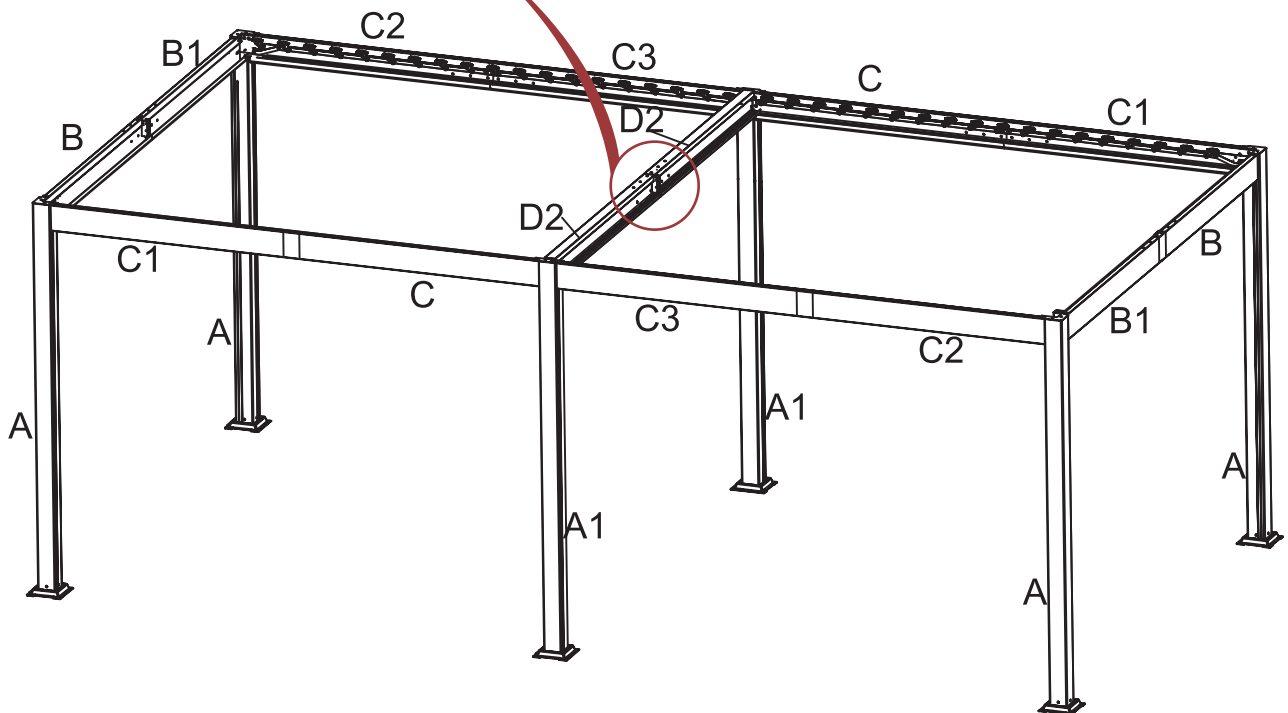
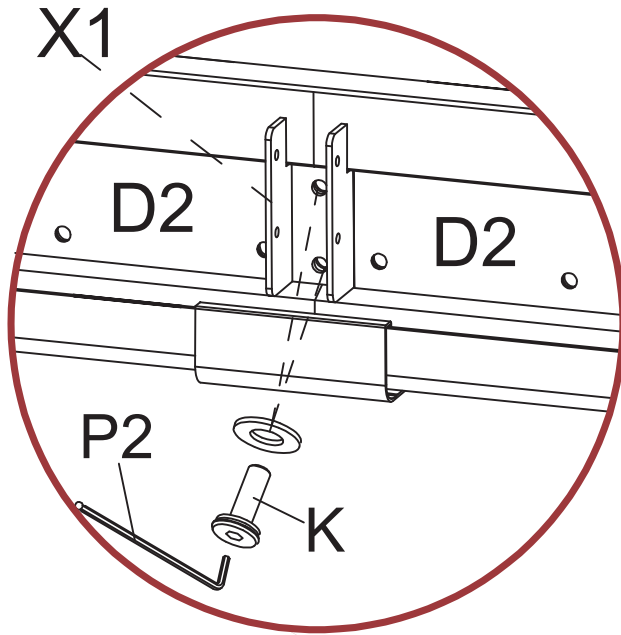
K:4PCS



M6


P2:1PCS

1. Use screw K(4PCS) to fix connector X1(2PCS) to the joint of the middle crossbeam D2/D2.



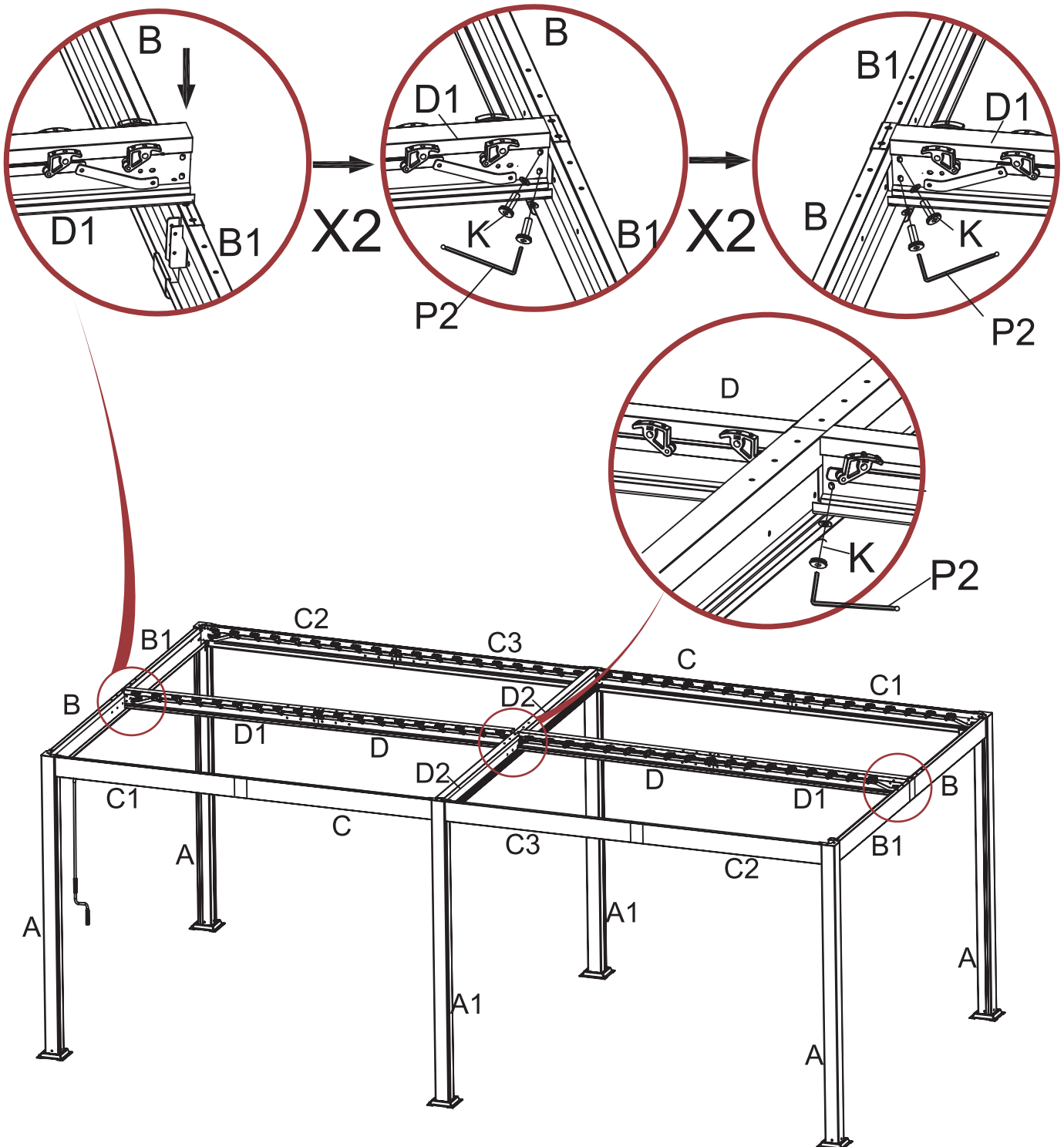
# STEP 15: Install the middle crossbeam

 K:12PCS

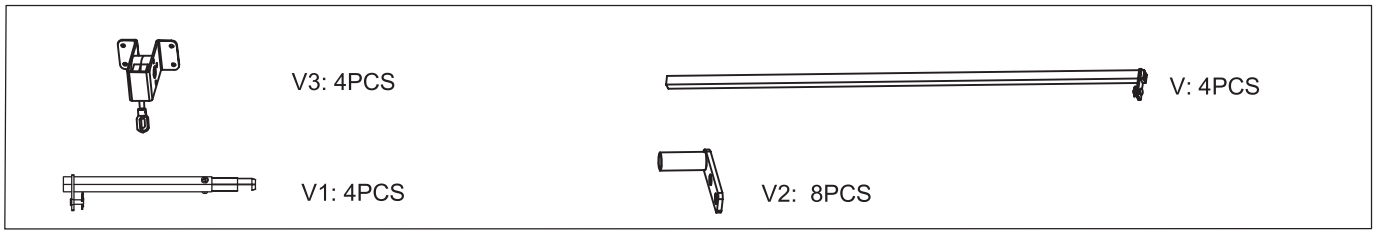
 M6

P2: 1PCS

1. Align the middle crossbeam D/D1 from top to bottom and insert it into connector X1. Use screw K(12PCS) to fix both sides.

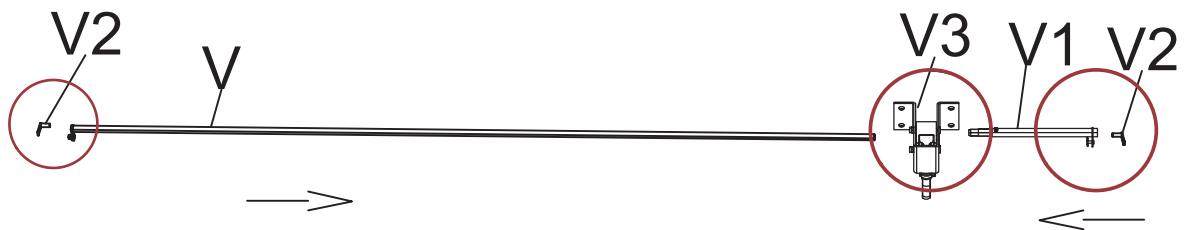
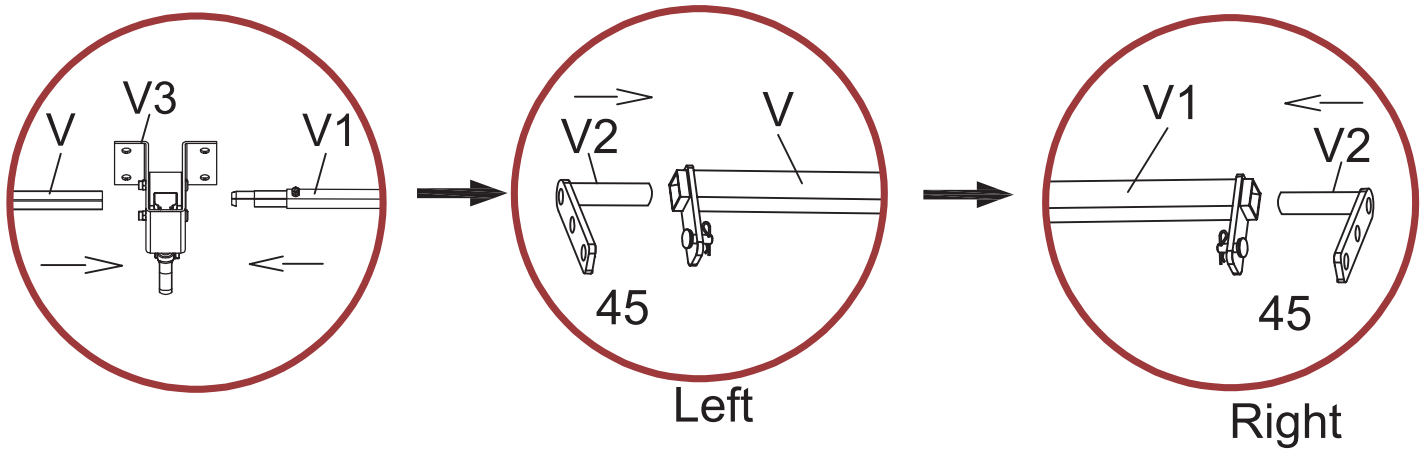


# STEP 16: Rotating system combination




# X4

1. Insert the rotating tube V(4PCS) and the rotating tube V1(4PCS) into the gearbox V3(4PCS) in the same direction.
2. Insert the rotating shaft V2(8PCS) into the rotating tube V(4PCS) and the rotating tube V1(4PCS) respectively.



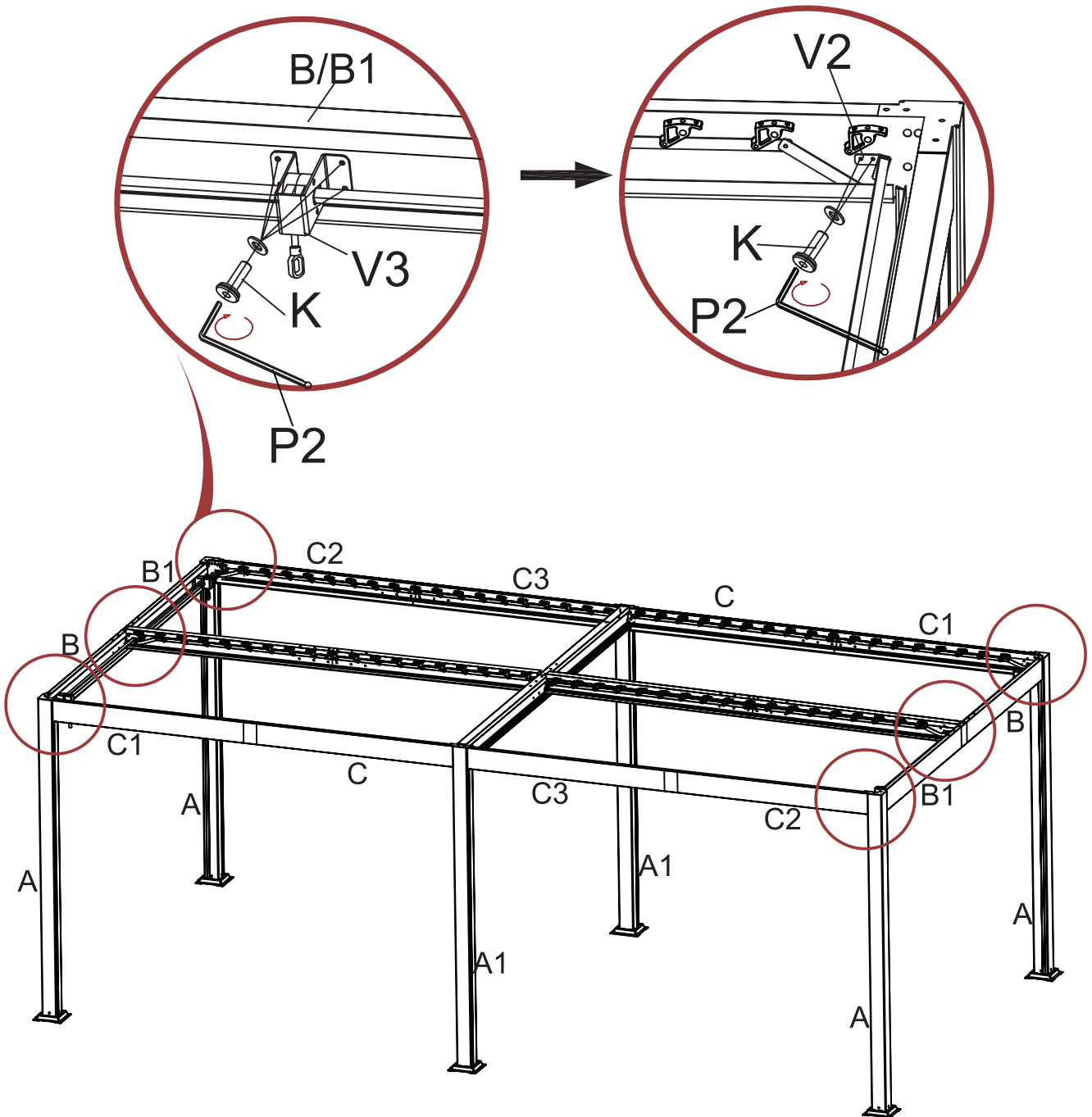
# STEP 17: Installation of rotating system

 K:32PCS

 M6

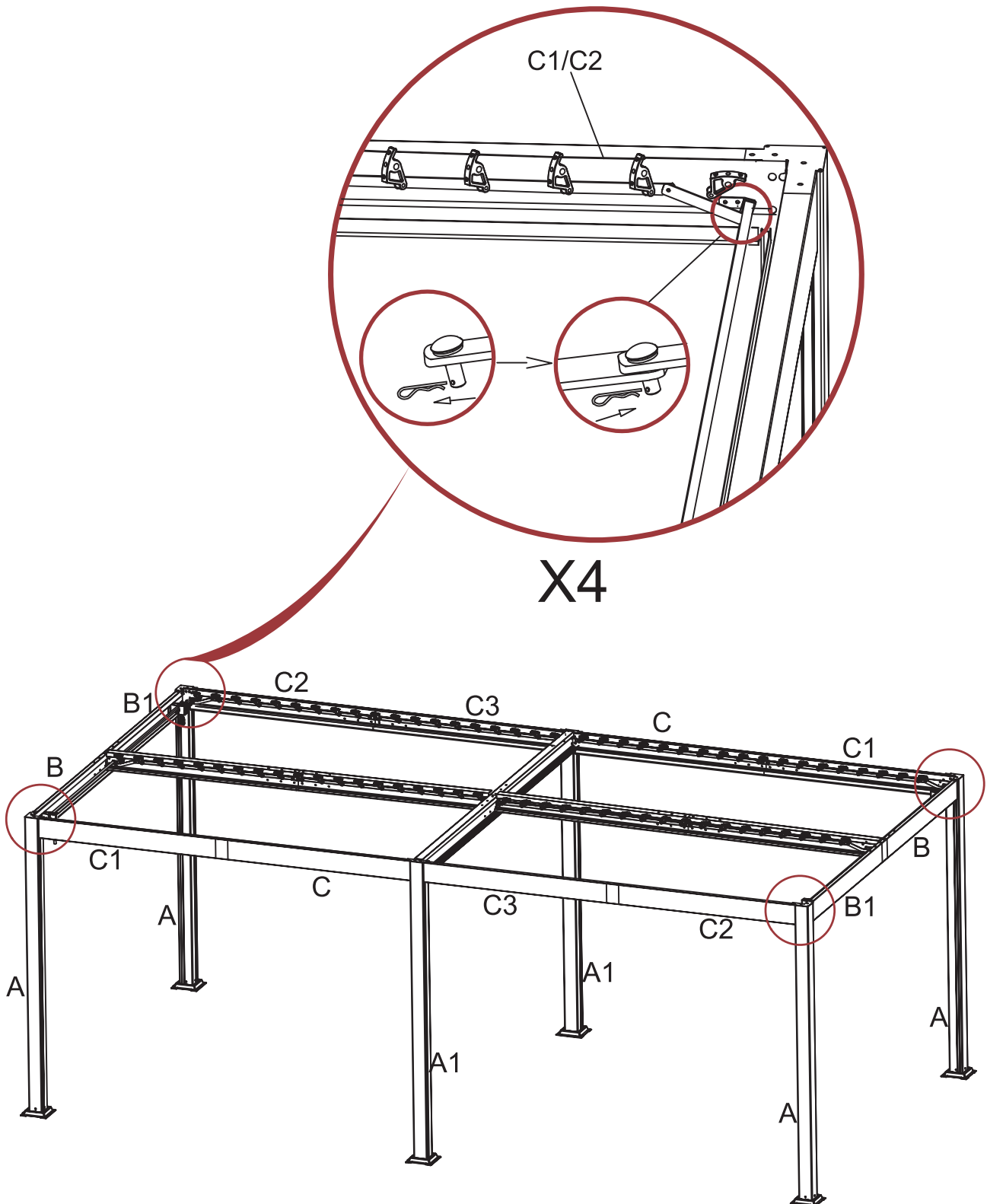
P2: 1PCS

1. Fix the rotating system assembled in the previous step onto crossbeam B and crossbeam B1 with screw K(32PCS).



# STEP 18: Installation of rotating system

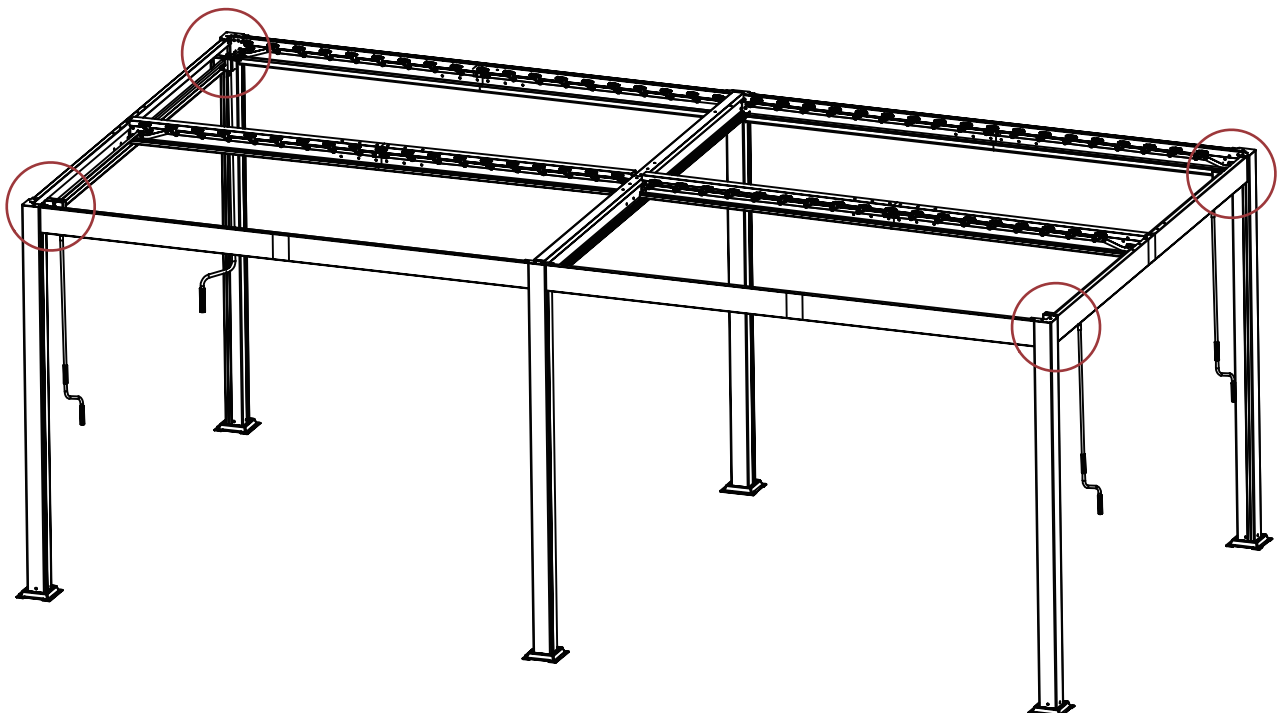
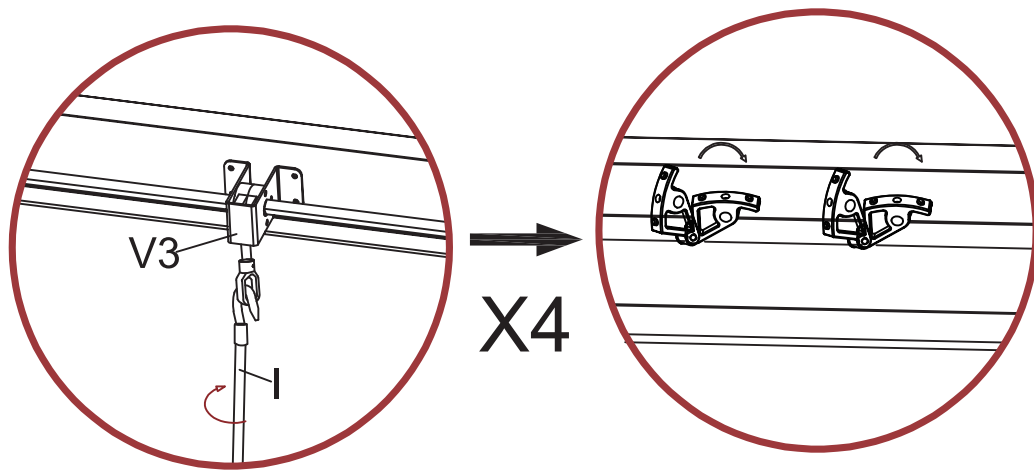
1. Remove the pins on the screws of the rotating tube V and the rotating tube V1.
2. Insert the screws into the iron holes of crossbeam C1 and crossbeam C2 And insert the plug back in.



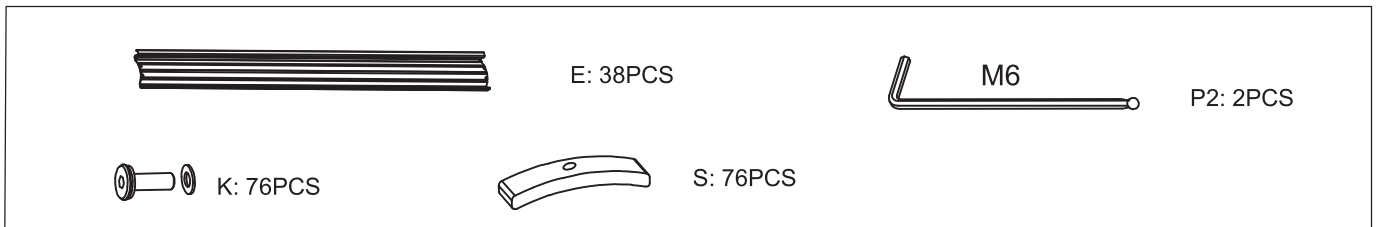
# STEP 19: Install the rocker arm



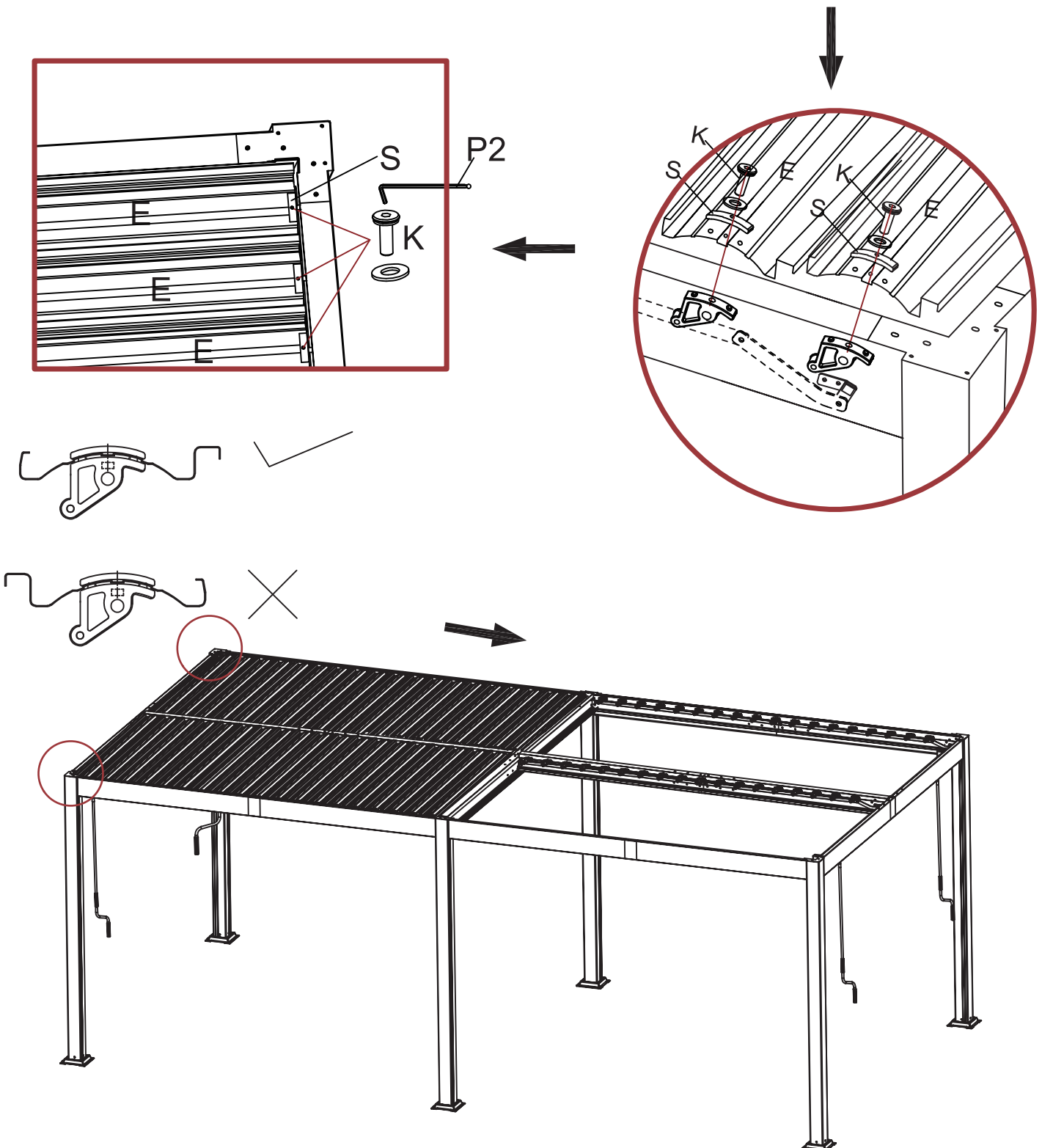
1. Hang hand I (4PCS) on gearbox V3 and rotate it to a parallel state.



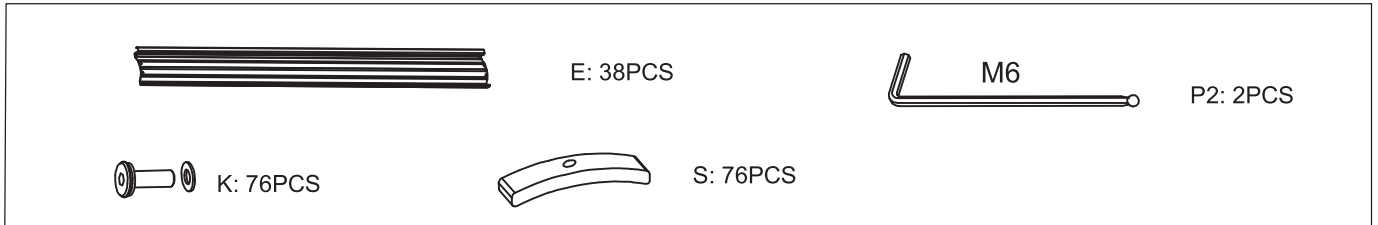
# STEP 20: Install blinds



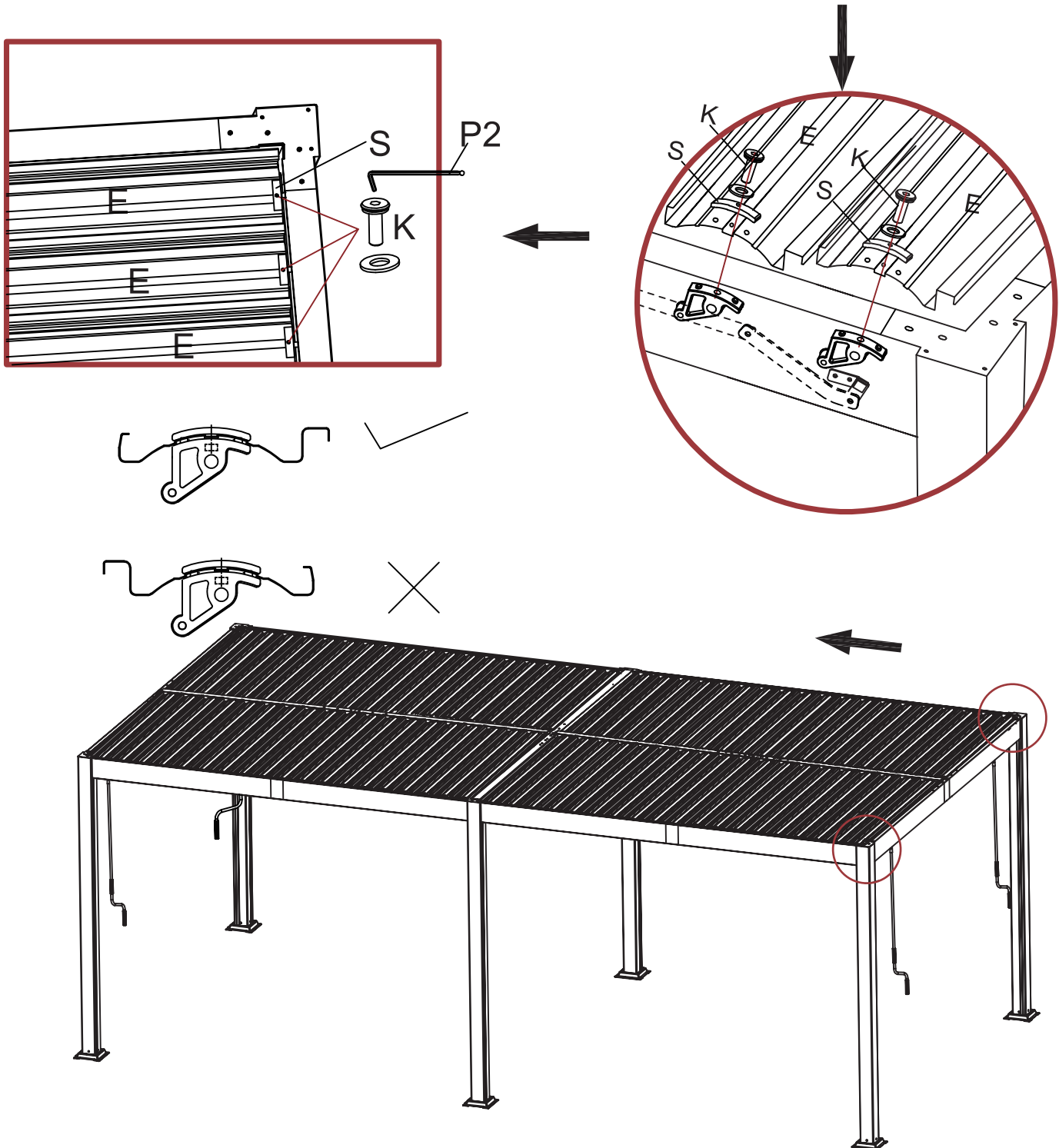
1. Place the blinds in the designated direction on the rotating parts of the crossbeam.
2. Place the rotating component cover on the louver. Align the hole position and fix it with screw K (76PCS).



# STEP 21: Install blinds

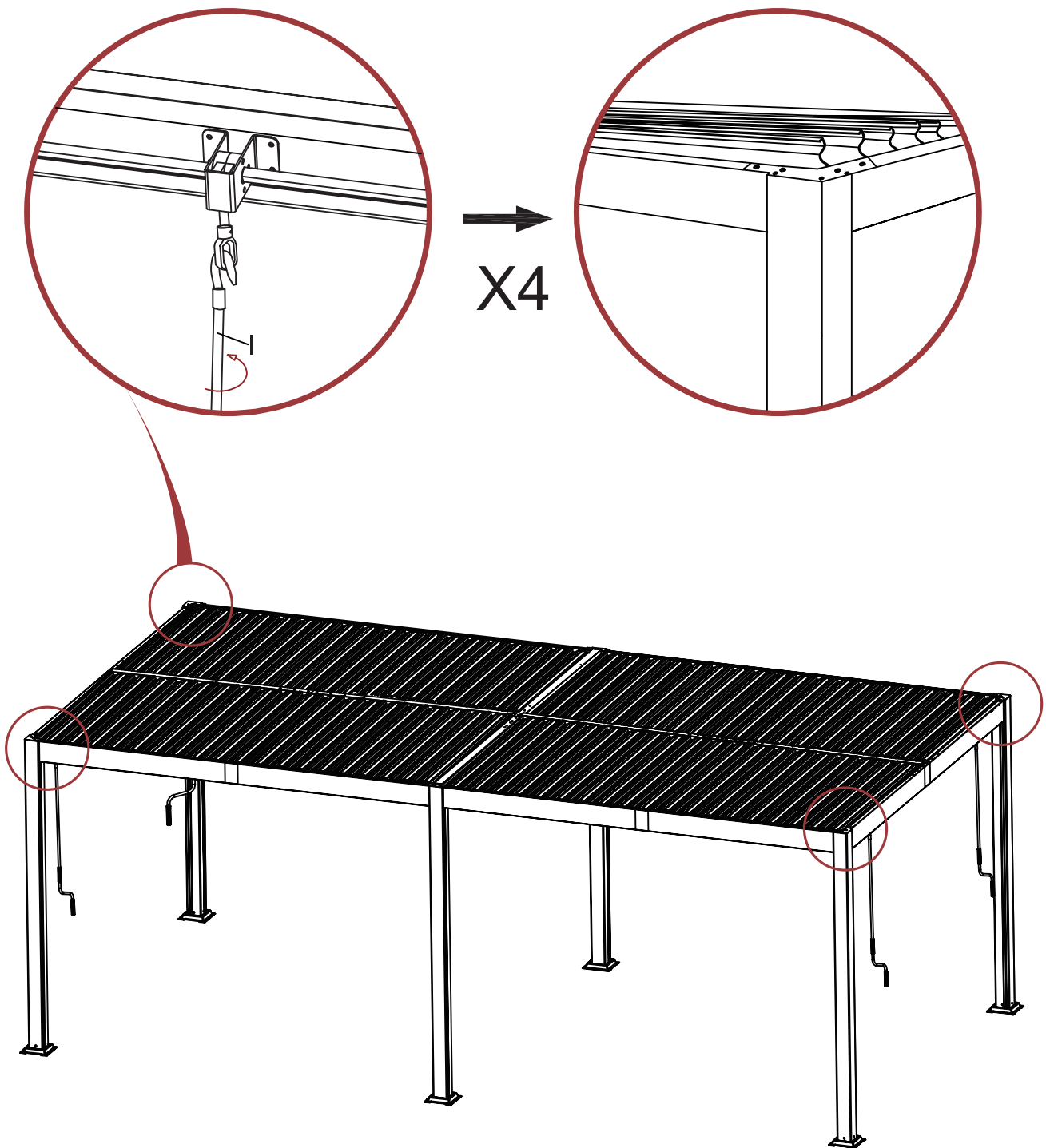


1. Place the blinds in the designated direction on the rotating parts of the crossbeam.
2. Place the rotating component cover on the louver. Align the hole position and fix it with screw K (76PCS).



# STEP 22: Open and close the blinds

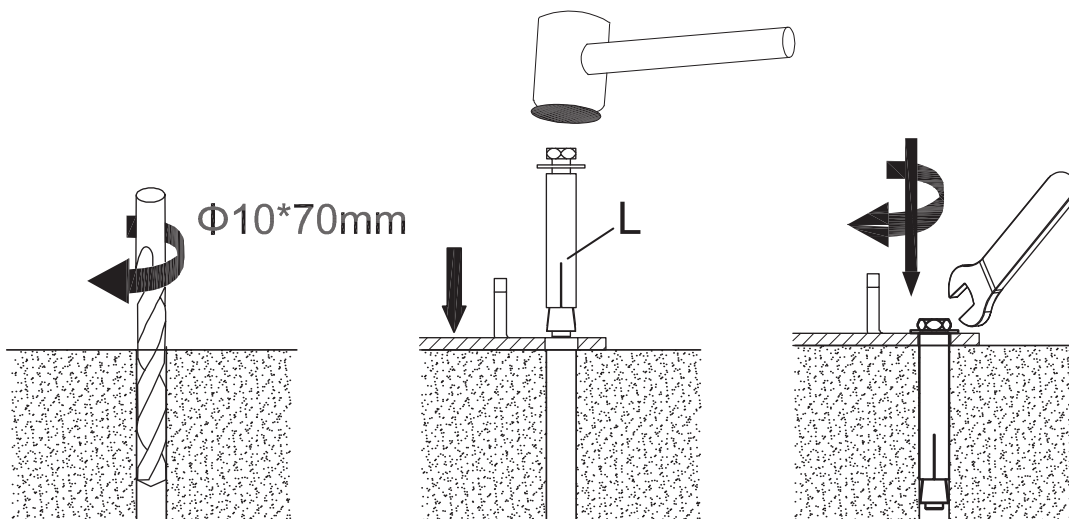
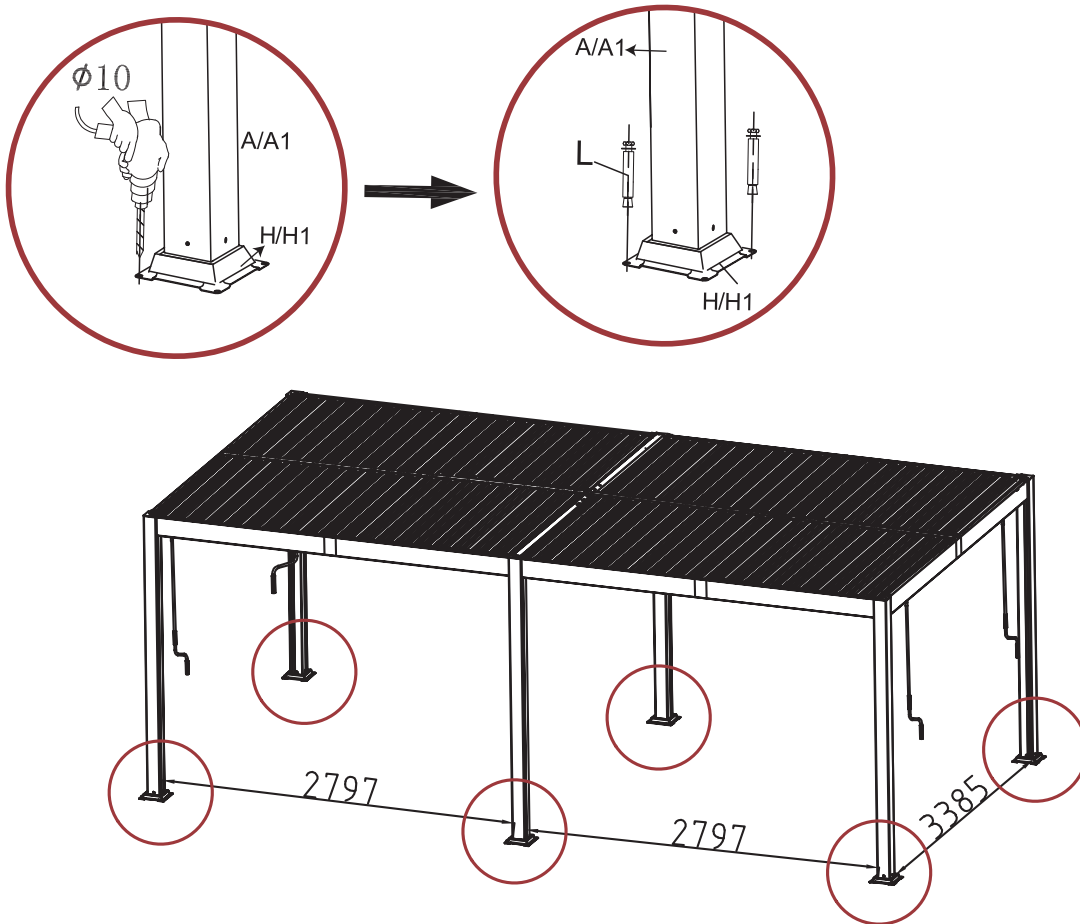
1. Rotating the hand I can open and close the blinds.



# STEP 23: Install expansion screws



1. According to the specified size Use an electric drill gun to drill holes according to the position of the foot pad, and hammer the expansion screw L(24PCS) into the hole And fix it.



# STEP 24: Install the surrounding fabric accessories



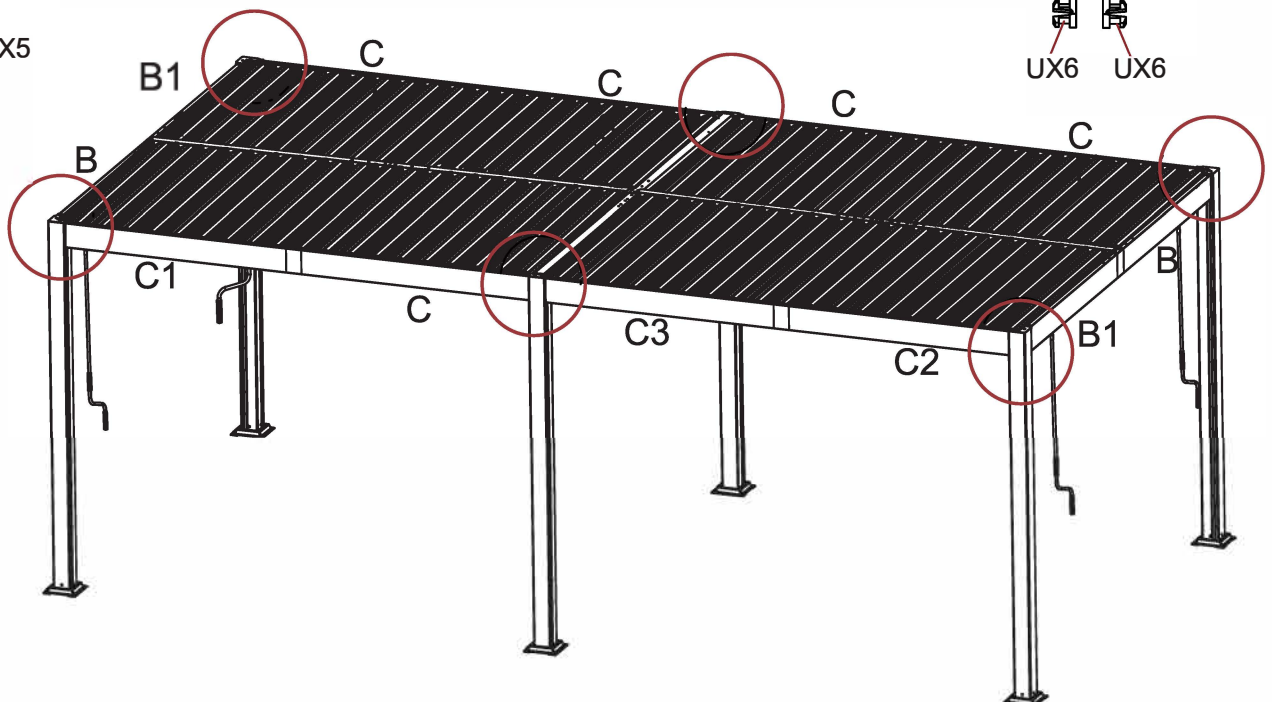
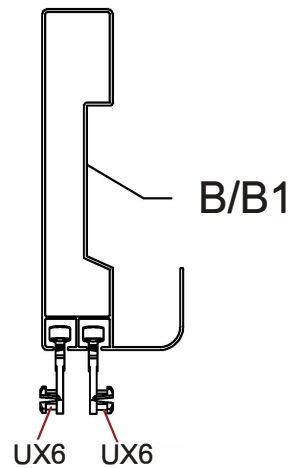
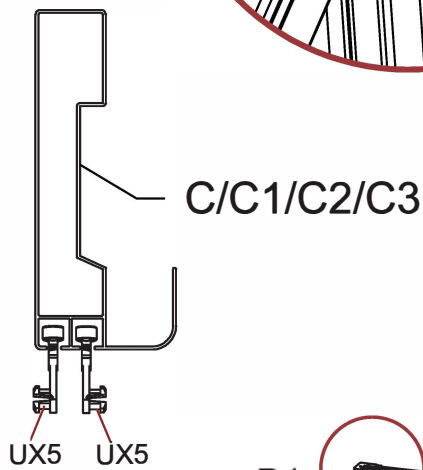
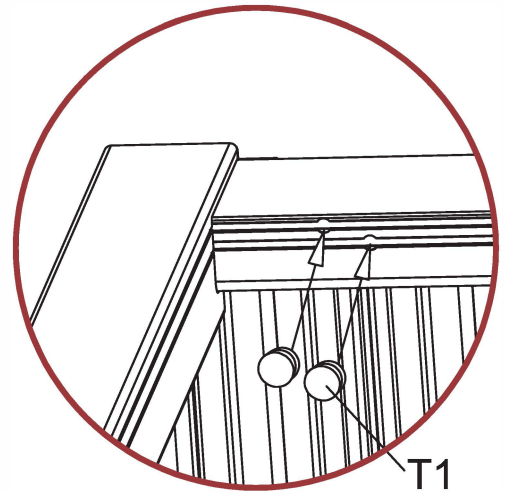
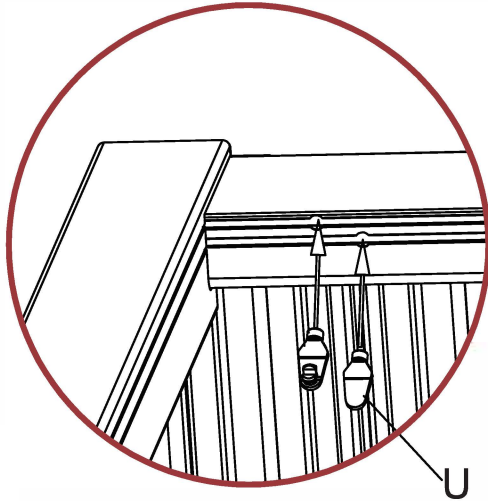
U: 128PCS



T1: 24PCS

1. Insert U(128PCS) into the slot at the opening of the crossbeam, and then block the hole with T1(24PCS).

**2. Attention: The plastic hook of the outer groove faces outward, and the plastic hook of the inner groove faces inward.**

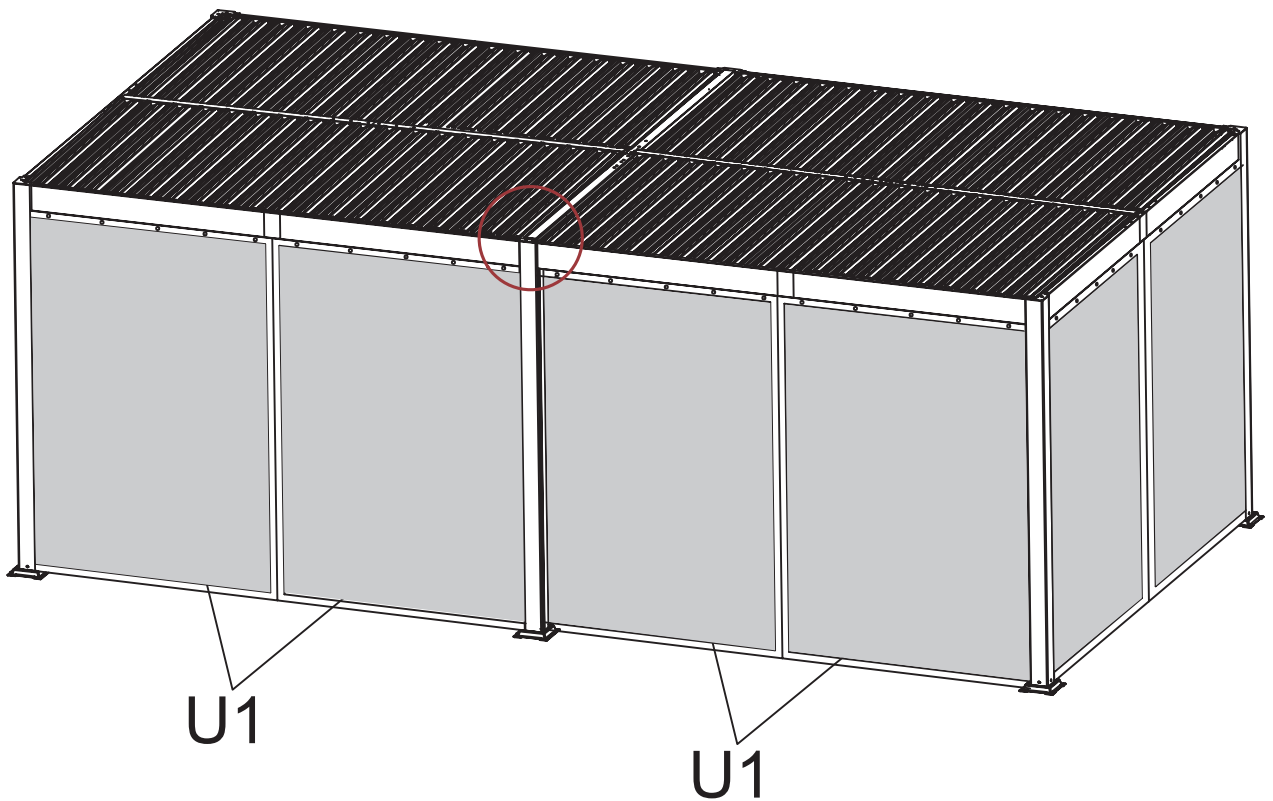
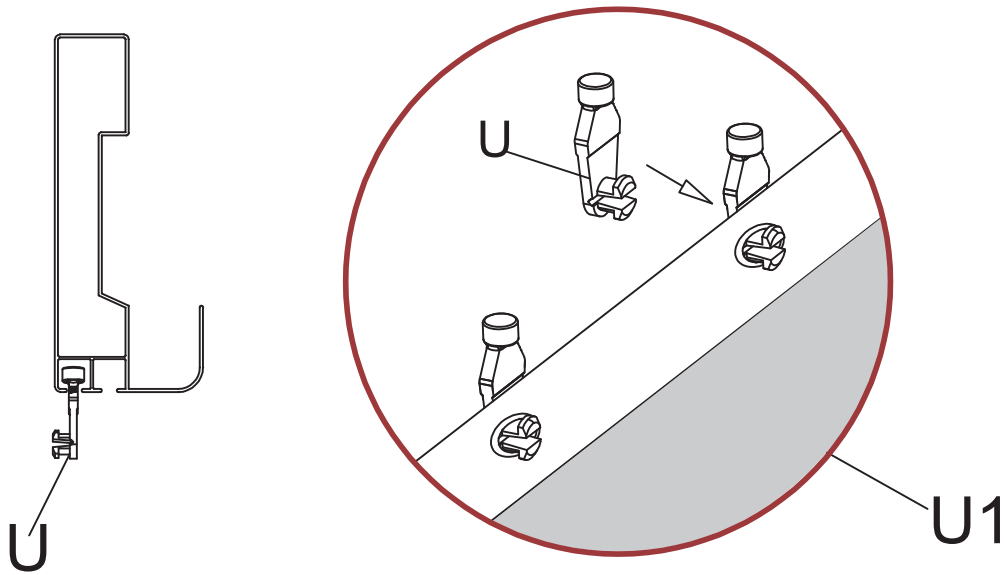


# STEP 25: Install the fence



U1: x6

1. Hang U1(6).



# STEP 26: Install mesh



U2:x6

1. Hang the mesh onto the plastic hook in the inner groove.

