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User's Manual



Assembly Video

USER'S MANUAL

LOUVRE LITE 10'x10' ALUMINUM PERGOLA



MODEL # : L5-LITE

ENG 10x10 L5-Louvered Pergola V250627
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For the most up to date assembly manual, please scan the QR codes
on top, or to order replacement parts , please visit www.luxpatio.com

WELCOME TO THE LUXPATIO LIFESTYLE!

Thank you for choosing LuxPatio! We believe your outdoor space should be a sanctuary, a place to relax, connect, and enjoy life's simple pleasures.

Just as our team envisioned, LuxPatio redefines what it means to unwind in your backyard. Imagine a shaded retreat where moments are made: morning coffee under soft sunlight, afternoon gatherings with loved ones, or quiet evenings beneath the stars.

With LuxPatio, your Pergola becomes more than just a structure—it becomes the heart of your outdoor living, crafted for both elegance and ease. From cutting-edge engineering to refined outdoor solutions, LuxPatio simplifies life so you can focus on what matters most.

Because your backyard isn't just part of your home—it's where memories begin.

LuxPatio
Spaces for What Matters.



This Instruction manual will gives you a comprehensive illustration about our product, including Parts, Installation, Warranty Policy, Care and Maintenance. Please carefully read the manual, and make sure NO important information is missed.

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INSTALLATION GUIDELINES AND SAFETY PRECAUTIONS

The installation of a Pergola demands meticulous attention to technical requirements and professional expertise due to its structural complexity. Key considerations include:

1.Precision Engineering

Accurate measurement and leveling of supports and framework.

Secure floor drilling with correct anchoring or approved fastening systems.

2.Operational Safety Requirements

Work at height and heavy load handling necessitate a minimum team of at least two capable adults equipped with PPE (Personal Protective Equipment) and three capable installers will be mostly recommended.

All operations must comply with relevant industrial safety standards.

3.Strict Supervision

In case of uncertainty regarding installation safety or structural integrity, consult a certified professional.

Strict adherence to assembly instructions is critical to prevent falls or structural failure.

SAFETY INFORMATION

- Keep children and pets away from any plastic bags, tools, fittings, and the assembly area until work is complete.
- Some components are heavy. Use proper lifting posture and technique. Ask for assistance if needed.
- Be careful when using sharp tools.
- Don't climb or stand on the roof.
- The Pergola should not be assembled directly under trees and powerlines.
- DO NOT assemble the Pergola in windy or wet conditions.
- Avoid using strong solvents such as thinners, or solutions containing chlorinated hydrocarbons, esters, or ketones. Do not use abrasive cleaners or cutting compounds.

DISCLAIMERS

- **DO NOT** modify this product, use unauthorized tools, or substitute parts only. Unauthorized modify will void your warranty.
- LuxPatio is not responsible for any damage resulting from normal wear and tear, improper assembly, misuse, or negligence.
- Manufacturer disclaims responsibility for damage arising from non-compliant installation, natural disasters, or extreme weather events. Immediate snow removal is mandatory to prevent structural overload during heavy snowfall.
- LuxPatio is not liable for typographical errors, content inaccuracies. The contents in this manual are subject to change without notice.
- The LuxPatio Pergola should only be connected to power sources installed by a licensed electrician.

BEFORE ASSEMBLY

- ⚠ Remove all parts and hardware from the box. Place all items on a carpeted or scratch-free work surface, as this will avoid damaging parts during assembly.
- ⚠ The shipping box can provide an ideal work surface if none is available.
- ⚠ To avoid accidentally discarding small components or hardware, do not dispose of any packaging or contents of the shipping carton until assembly is complete.
- ⚠ **DO NOT** fully tighten all fasteners / screws until all parts are in place. Failure to follow these instructions may cause the fasteners / screws to misalign during assembly.

ASSEMBLY NOTES

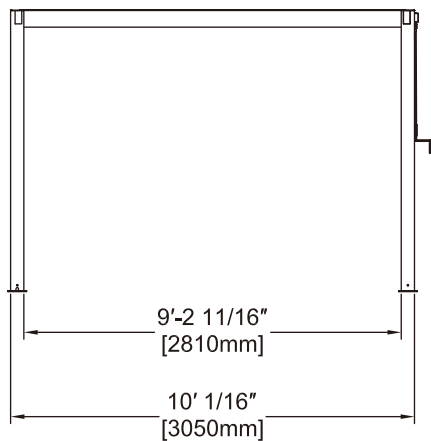
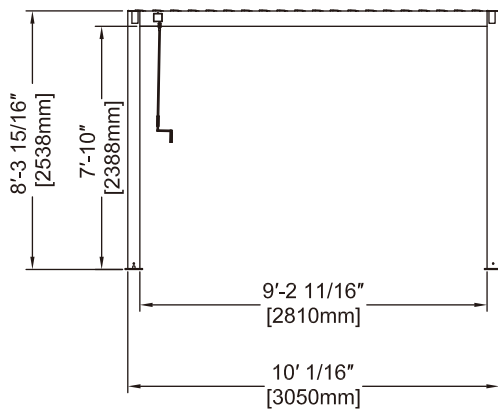
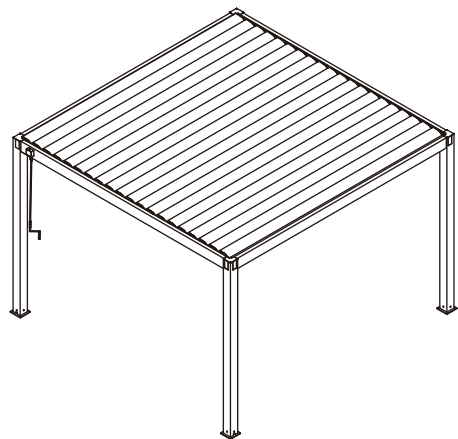
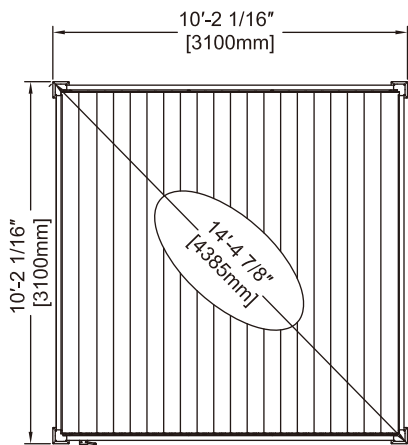
It is critical to begin with square, level footings, namely a flat surface such as a concrete pad or deck before attaching your structure.

- Carefully review the required items for each step. Always use the correct hardware, as incorrect hardware may cause structural damage or insufficient clearance.
- Always double-check for underground utilities and overhead electrical lines clearance before installation.

Post mounts are included, allowing you to permanently install your structure onto an existing or new wood or concrete surface. See Anchoring Layout for further details and recommendations.

- Hardware to connect the post mounts to the structure is included.
- Hardware for permanent concrete installation is also provided.
- Ensure there is adequate structural support beneath the deck before permanent attaching.

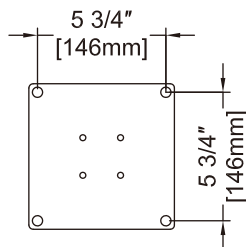
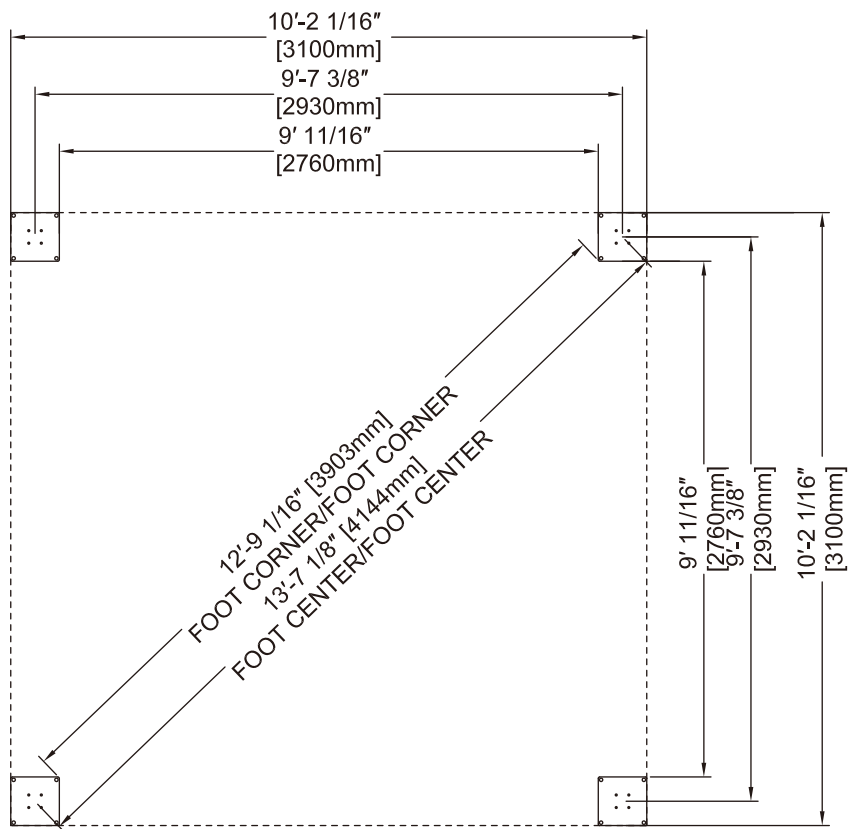
DIMENSIONS



ANCHORING LAYOUT

NOTE: DIMENSIONS ARE TO ANCHOR PLATE ON BOTTOMS OF POST EXCEPT WHERE NOTED

THE PROTRUDING ROOFTOP MAY REQUIRE EXTRA CLEARANCE. ENSURE CLEARANCE IS SUFFICIENT FOR PERGOLA INSTALLATION.

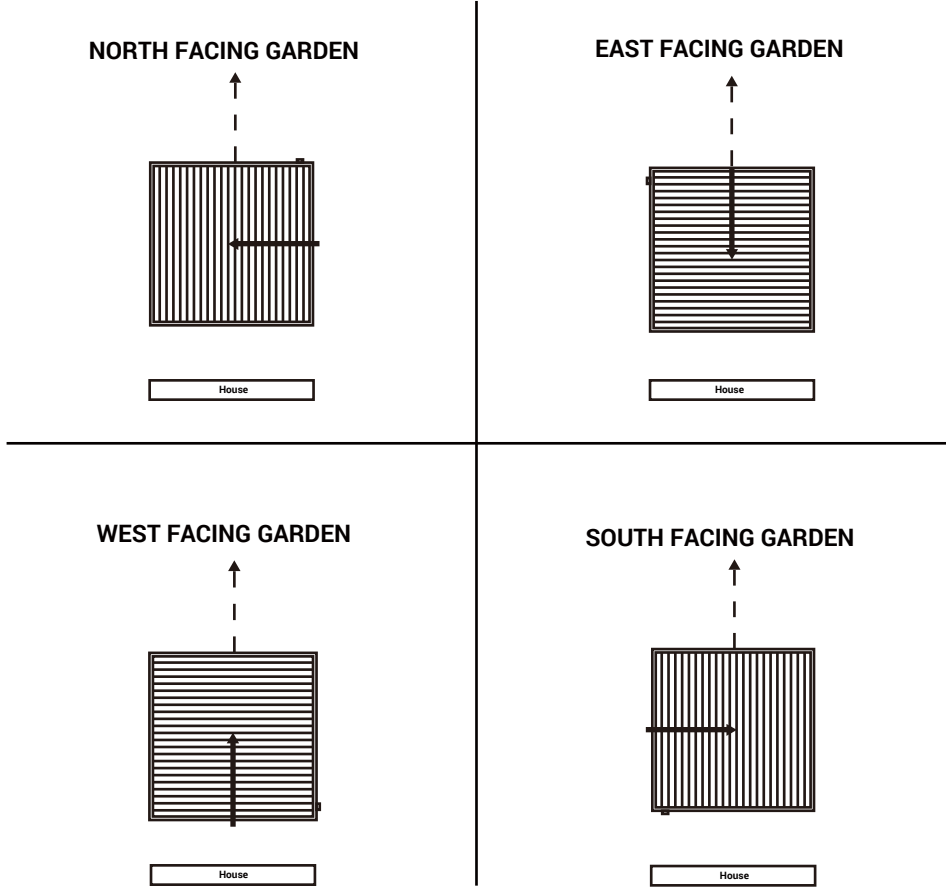


146MM: THE CENTRE DISTANCE BETWEEN HOLES

RECOMMENDED LOUVRED POSITION

The louvres and gearbox location can be placed in your preferred position. However, we suggest the louvres to be positioned perpendicular to the sunlight for the best lighting. Please refer the guide below to maximize your sunlight accordingly.

TOP TIP
KEEP THE GEARBOX LOCATION AS
NORTHERLY AS POSSIBLE



SORTING PARTS

HARDWARE PARTS:

- Hardware blisters pack are labeled with alphanumeric part numbers.
- It is highly recommended to pre-organize hardware by part number or type (e.g., bolts, nuts, etc.).
- Parts can also be sorted by the alphabetical portion of their part code, which helps guide the order of installation.
- Fasteners should only be selected during their designated assembly step to avoid losing.
- The quantity listed on the Parts page reflects the number of components required for installation. (There are a few spare screws for backup)
- It is recommended to remove stickers from large parts only after installation is complete.
- Additional spare fasteners are available and individually packaged.

CARTONS ARE NOT ORGANIZED BY PART NUMBER. IT IS RECOMMENDED TO LEAVE LOUVER COMPONENTS IN THE BOX UNTIL NEEDED FOR ASSEMBLY.

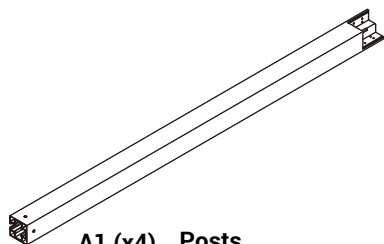
PARTS IDENTIFICATION EXAMPLE



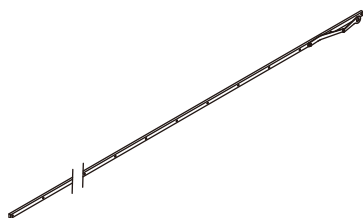
Part No.	Quantity	Name Description	Specifications
S1	x48	Hexagon Socket Countersunk Head Screws	M6x20 mm

PARTS IDENTIFICATION

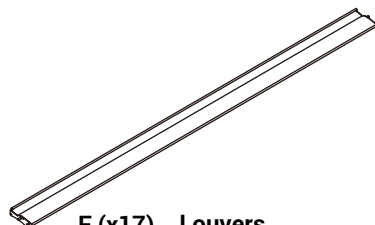
METAL COMPONENTS (NOT TO SCALE)



A1 (x4) Posts
8'-3 5/8" x 4 3/4" x 4 3/4"
(2530*120*120mm)



G (x1) Pushrod
8'-11 1/8" x 11/16" x 3/8"
(2740*18*10mm)



F (x17) Louvers
9'-5 3/8" x 1 5/16"
(2879*195*33.2mm)



B1 (x1) Left Crossbeam
9'-7 5/16" x 5 7/8" x 3 15/16"
(2929*150*100mm)



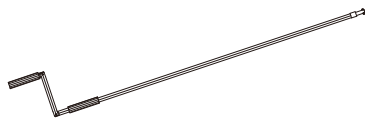
B2 (x1) Right Crossbeam
9'-7 5/16" x 5 7/8" x 3 15/16"
(2929*150*100mm)



C1 (x2) Front and Rear Crossbeams
9'-7 5/16" x 5 7/8" x 3 15/16"
(2929*150*100mm)

PARTS IDENTIFICATION

METAL COMPONENTS (NOT TO SCALE)



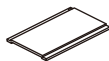
J1 (x1) Foldable Crank Handle
47 1/4"
(1200mm BLK)



J2(x2) Holders
1 1/2" x 1 7/16" x 1 3/16"
38*36*30mm



K1 (x4) Base Plate
5 7/8" x 5 7/8" x 5/16"
(170*170*8mm)



K2 (x8) Decorative Plate
4 3/4" x 2 15/16" x 3/16"
(120*74*5mm)



K3 (x4) Top Cover Plate
4 3/4" x 4 3/4"
(120*120mm)



K4 (x1) Gearbox Square Shaft
3 3/4" x \varnothing 13/16" x 1/2" x 1/2"
(95.8* \varnothing 20*13*13mm)



K5 (x1) Gearbox and Bracket
3"x4 1/8"x1 3/8"
(76*105*35mm)



K6 (x1) Gearbox Tube
 \varnothing 7/8" x 1 9/16"
(\varnothing 23*40mm)



K7 (x1) Gearbox Cover
3 5/16" x 3 3/8" x 1 15/16"
(84*86*49.5mm)



K8 (x8) Base Plate Cover
7 8/16" x 7 8/16"x1 9/16"
(190*190*39mm)

PARTS IDENTIFICATION

FASTENERS (NOT TO SCALE)



S1 (x48) Hexagon Socket Countersunk Head Screws
M6*20 mm



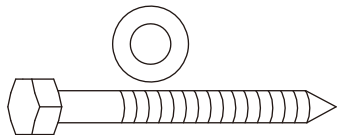
S2 (x1) Cylindrical Pin
4*20 mm



S3 (x1) Ring-Shape Spring Buckle
21.5*1 mm



S4 (x2) Hex Socket Head Screws
M6*45 mm



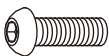
S5 (x16) Hex Lag Screws and Flat Washers
M8*75 & \varnothing 8 mm



S6 (x2) Large-Size Flat Washers
 \varnothing 6*18*1 mm



S7 (x2) Cross Recessed Countersunk Head Screws
M5*12 mm



S8 (x17) Hex Button Screws
M6*16 mm



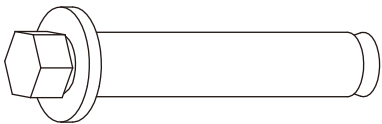
S9 (x1) Cross Recessed Pan Head Screw
M5*8 mm



S10 (x12) Cross Recessed Pan Head Self-Tapping Screws
ST5.5*16 mm



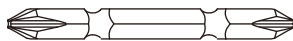
S11 (x8) Cross Countersunk Head Self-Tapping Screws
ST3.5*13 mm



S12 (x16) Hex Head Expansion Bolts
 \varnothing 8*80 mm

PARTS IDENTIFICATION

TOOL (NOT TO SCALE)



T1 (x1) Phillips Screwdriver Bit
PH2 65mm HRC60



T2 (x1) Hex Screwdriver Bit
4mm 65mm HRC60



T3 (x1) Hex Wrench
4mm 140 x 25mm HRC60



T4 (x1) Carbide-Tipped SDS Rotary Hammer Bit
φ12 x 150mm



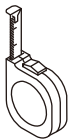
T5 (x1) Sealant
85g

TOOLS REQUIRED

WHAT YOU MAY NEED?



Ladder x2



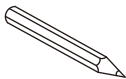
Tapeline



Mallet



Level



Marker Pen



Wrench



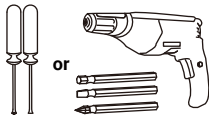
Glove



**φ10mm
Electric Screwdriver**



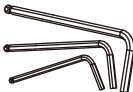
Safety Hat



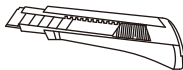
**Screwdriver or
Electric Screwdriver**



Sleeve Tool

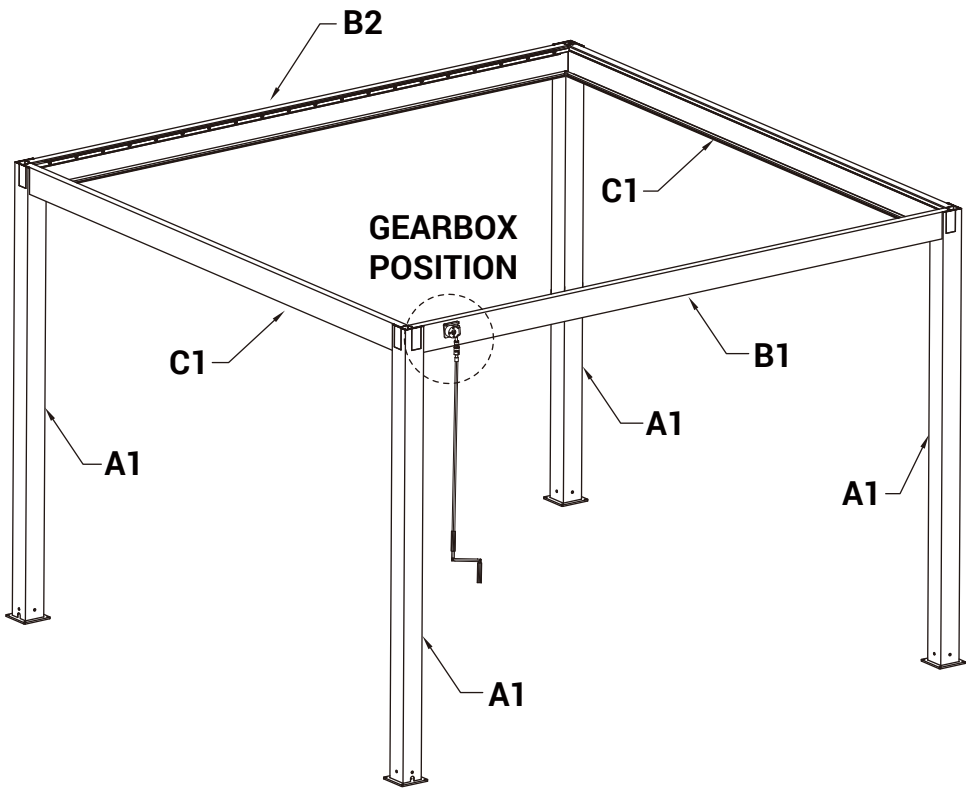


Allen Key






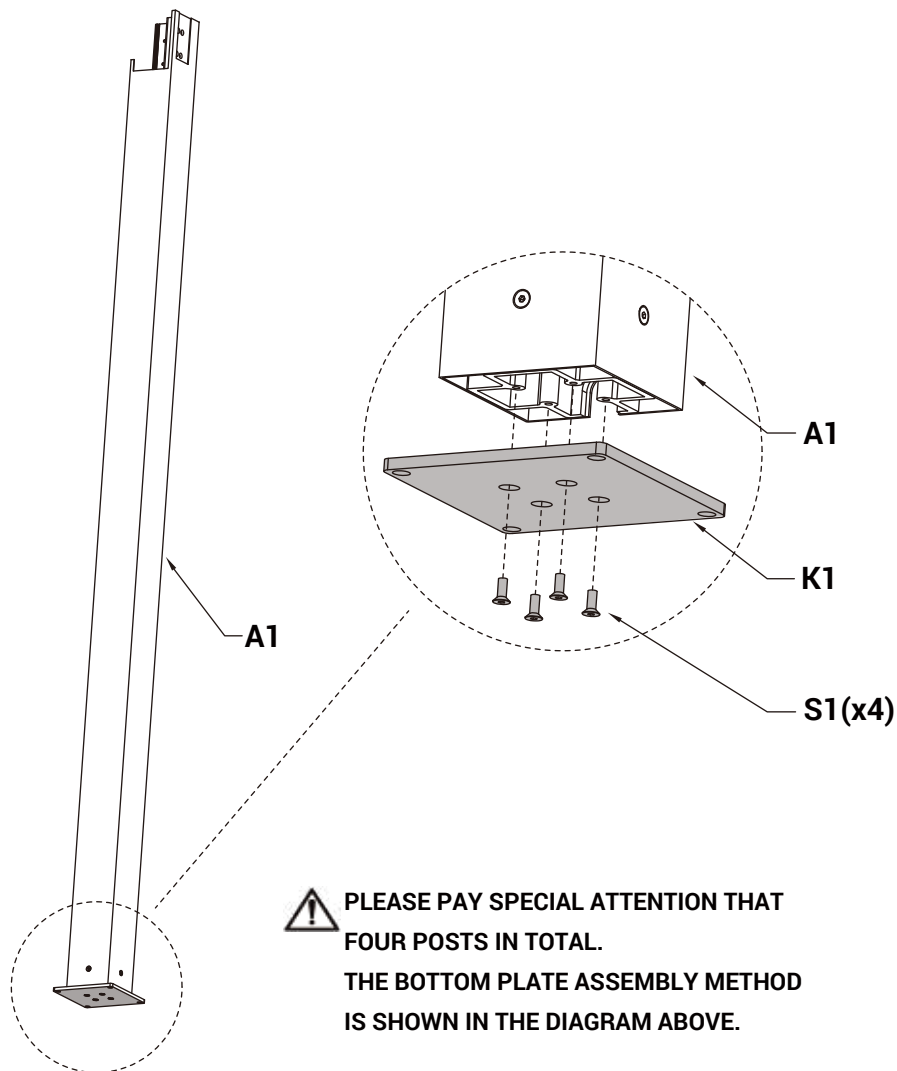
Utility Knife

OVERVIEW OF THE FRAMEWORK









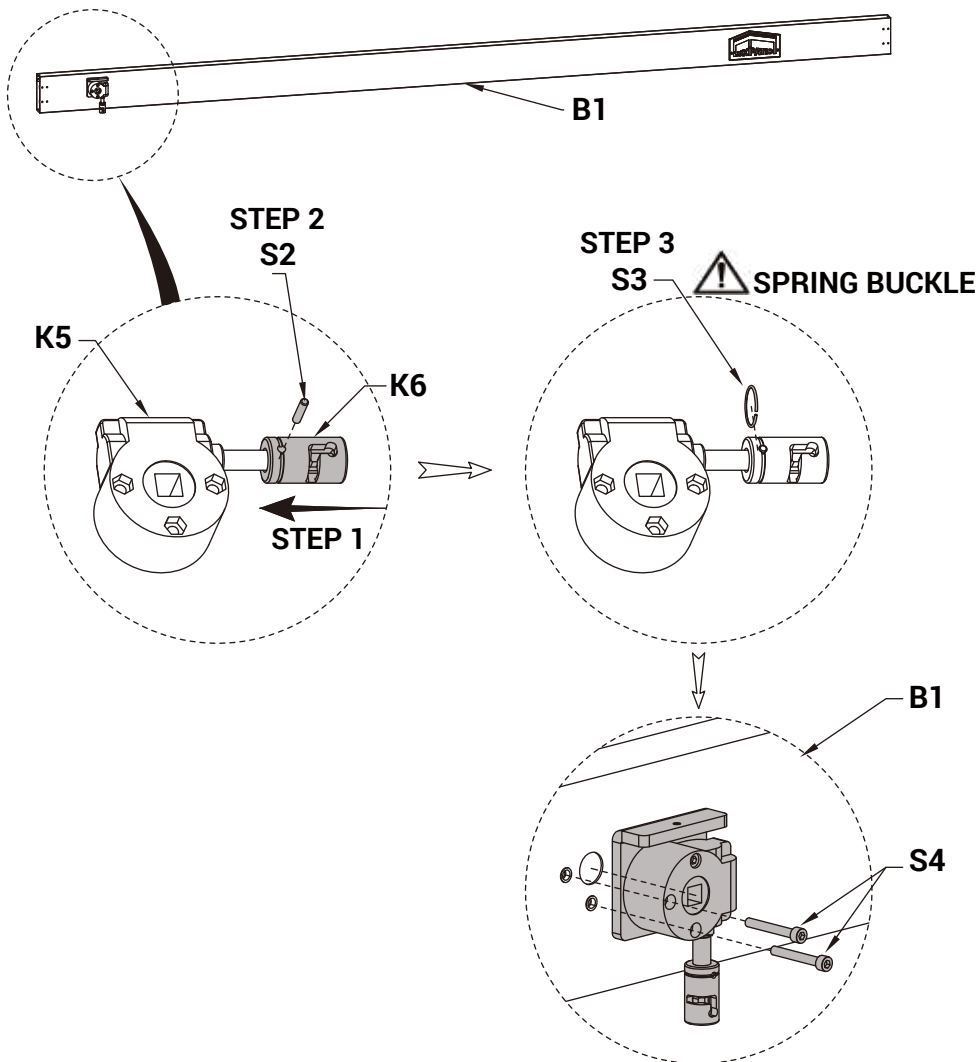
1-1

A1		x4
K1		x4
S1		x16





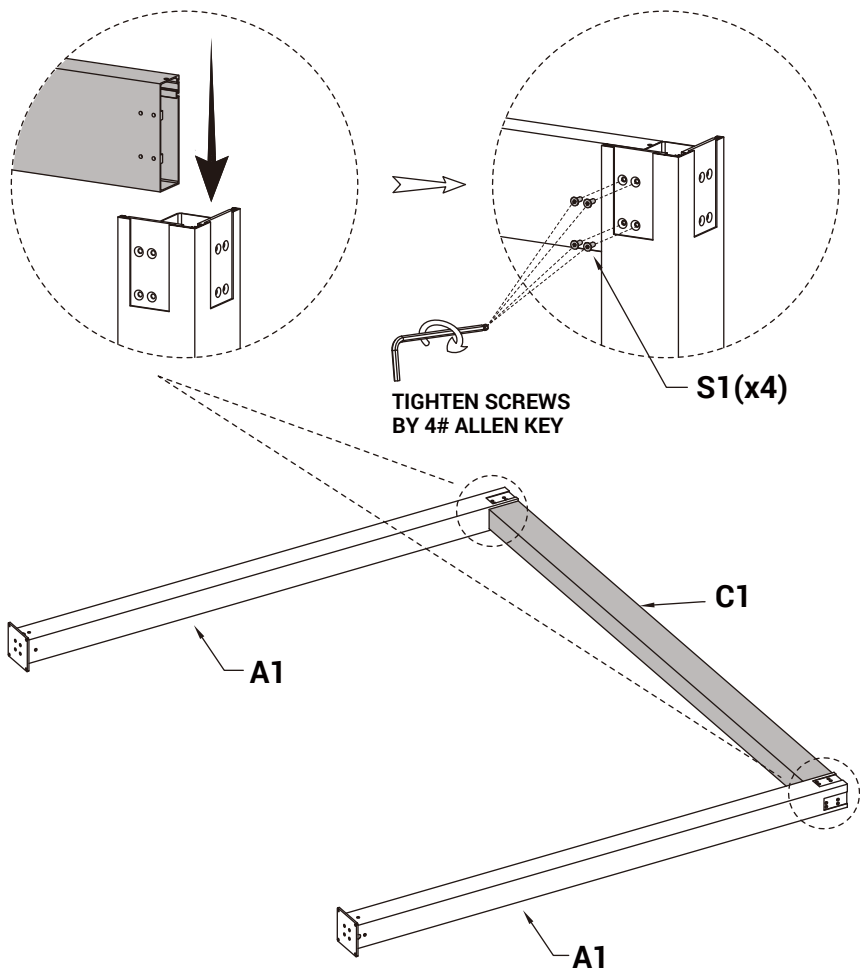
1-2

B1  x1		K5  x1
K6  x1	S2  x1	S3  x1
S4  x2		



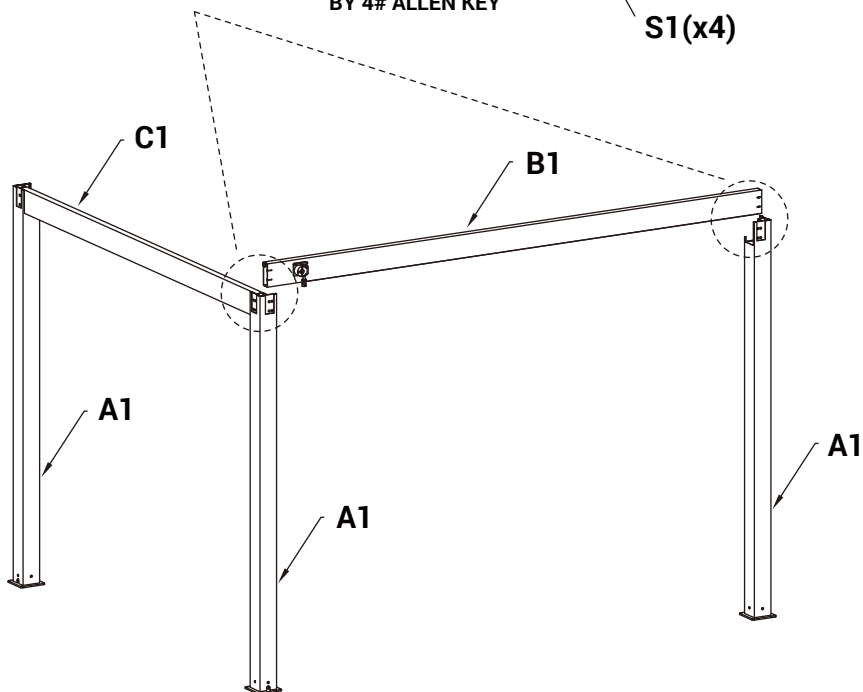
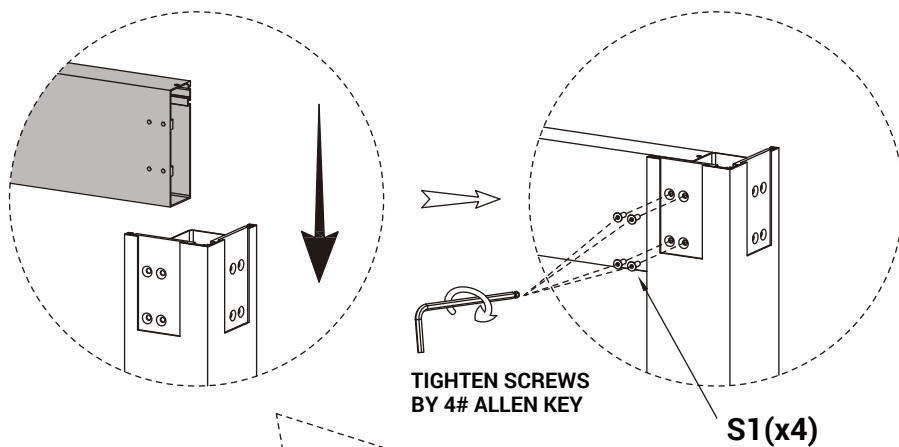
2-1

C1		×1	S1		×8
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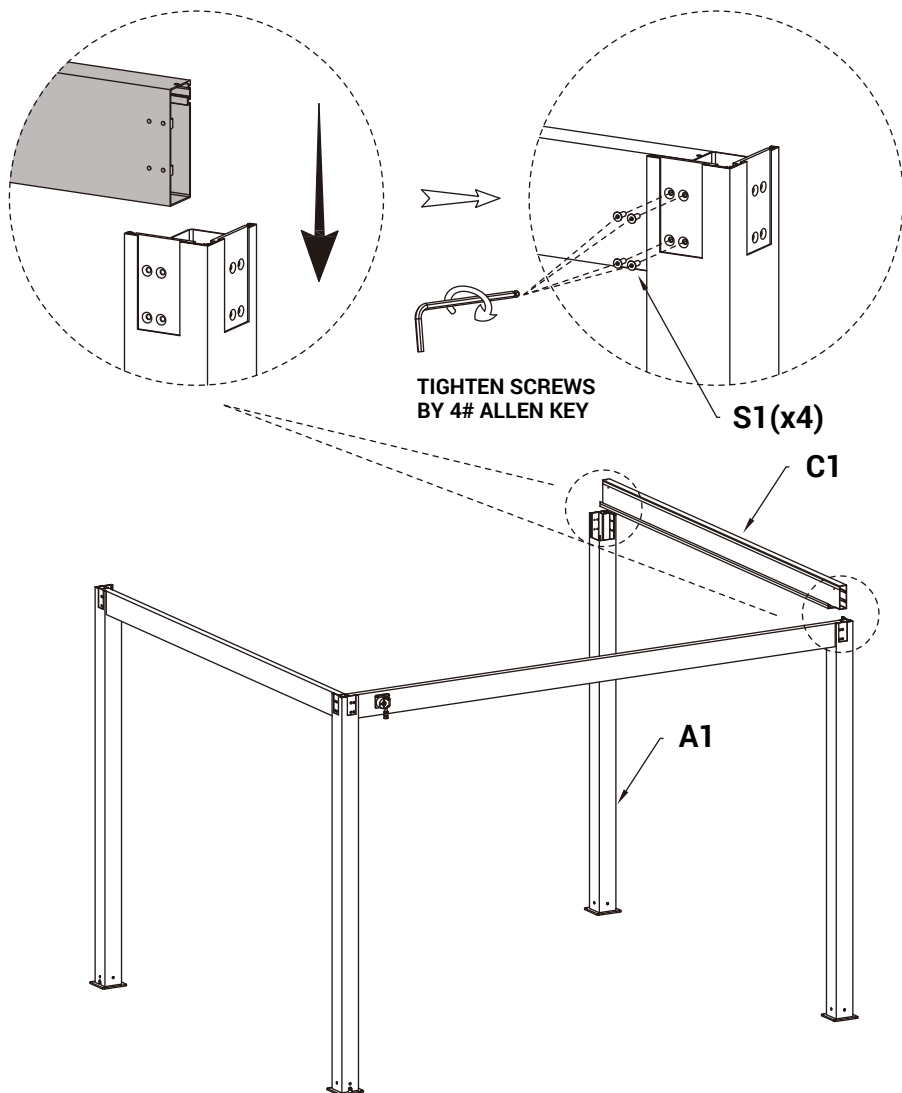
2-2

B1		x1	S1		x8
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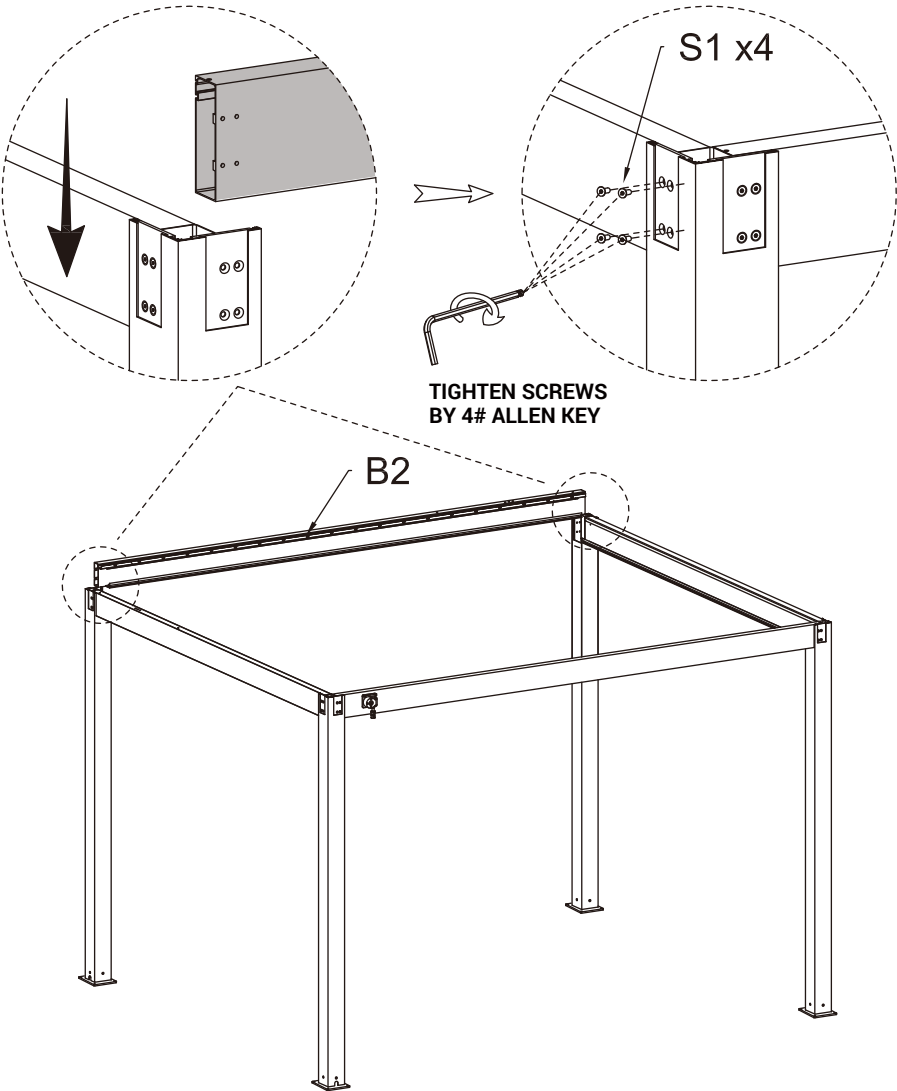
2-3

C1		x1	S1		x8
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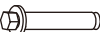




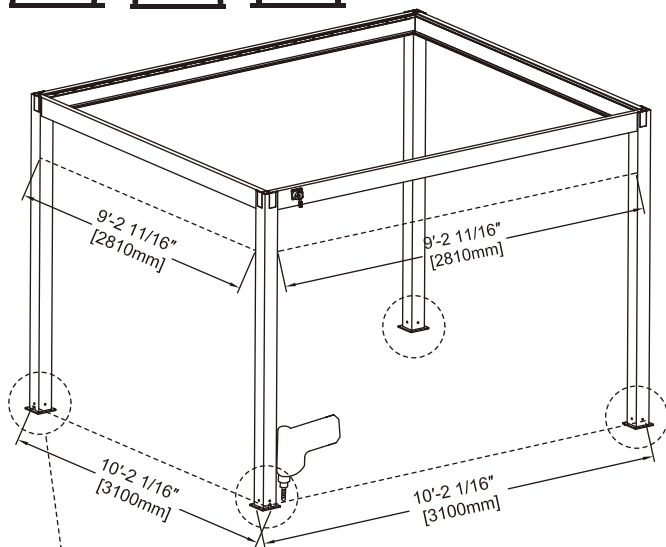
2-4

B2		x1	S1		x8
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2-5

S12  x16	S5  x16	S5  x16
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WE OFFER TWO TYPES OF ANCHOR METHOD.

FOR CONCRETE FLOOR

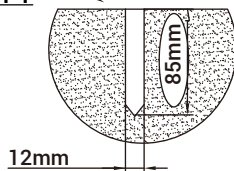
FOR DECK

x16

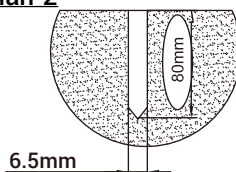


TIGHTEN SCREWS
BY #13 WRENCH

Plan-1

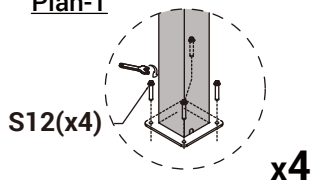


Plan-2



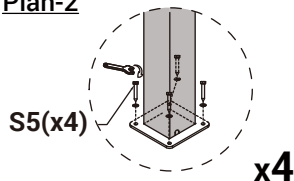
TIGHTEN SCREWS
BY #13 WRENCH

Plan-1



x4

Plan-2



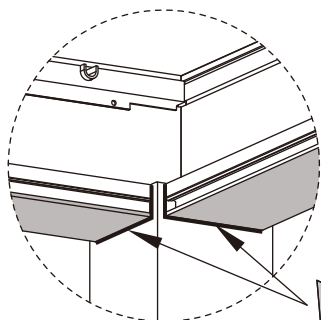
x4

3

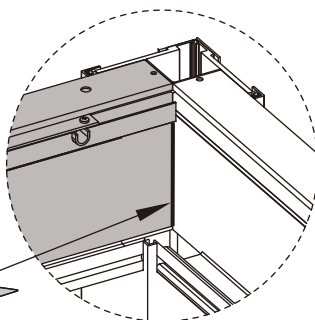
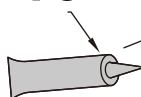
T5



x1



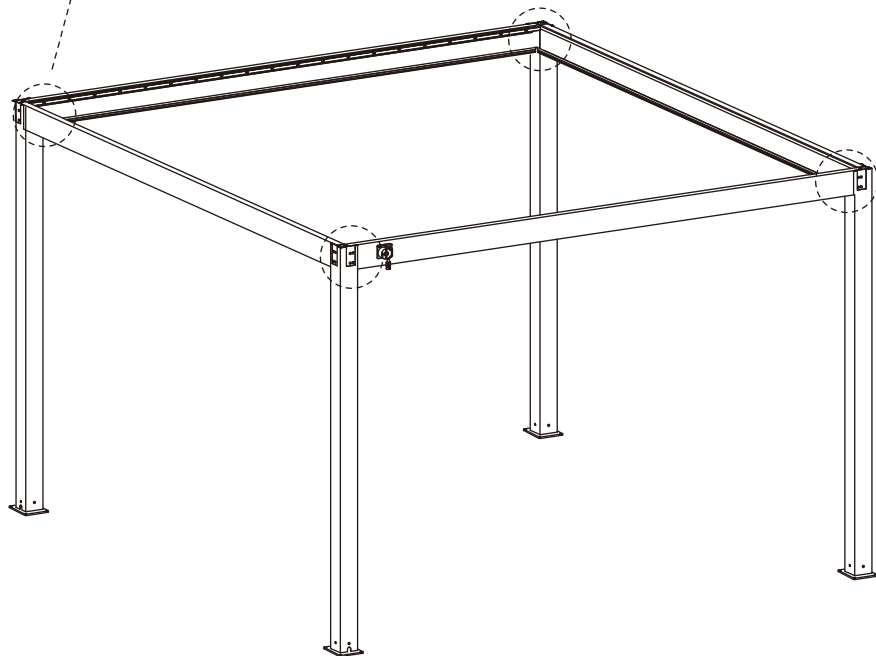
T5






x4

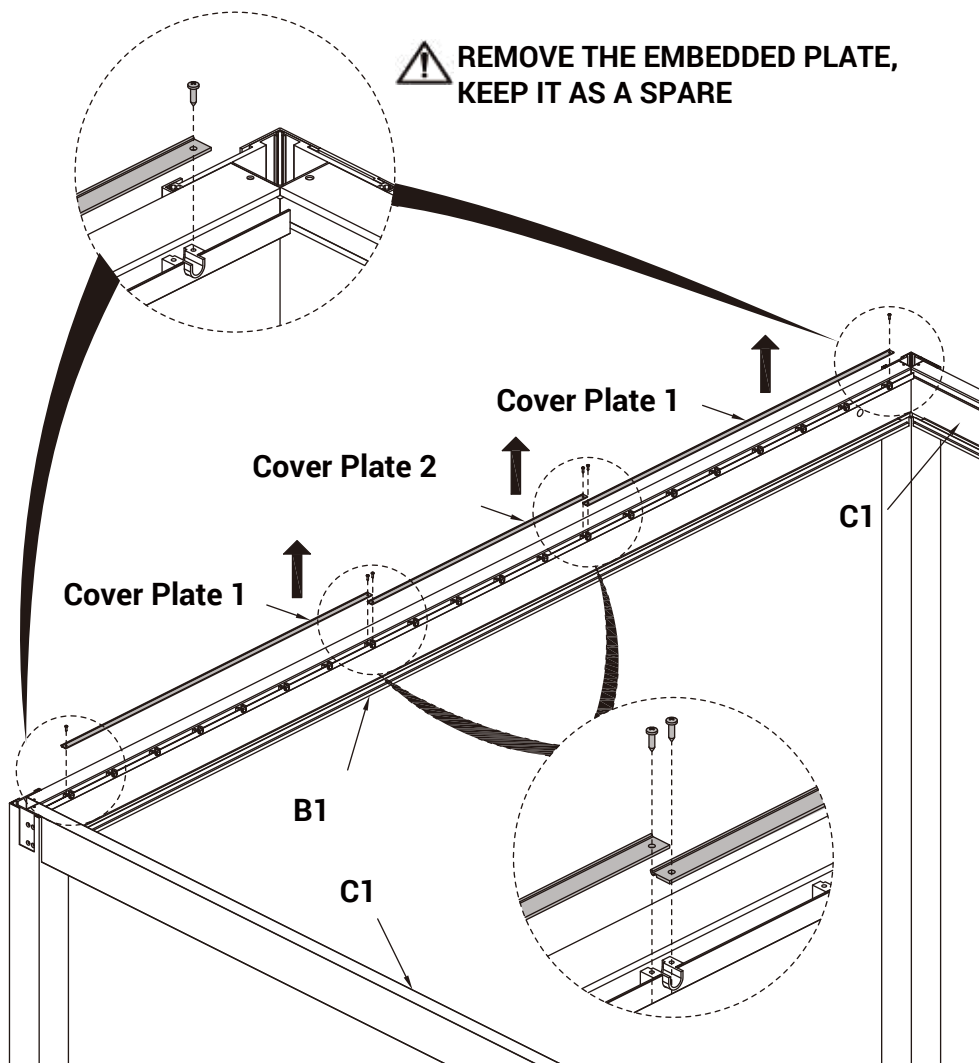


APPLY THE SEALANT ON
THE BEAM JOINT SEAMS
FOR ALL FOUR BEAMS






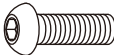


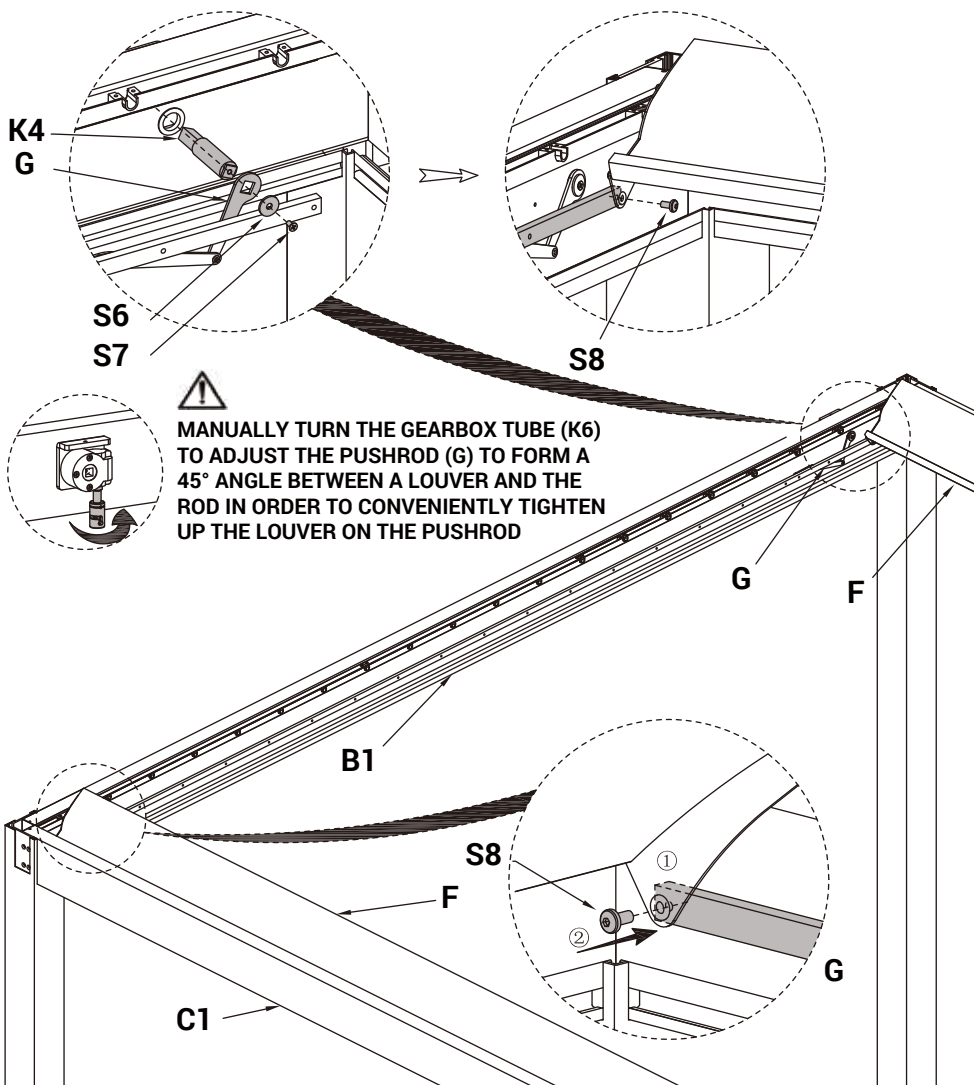
4

	Cover Plate 1 (Pre-installed)	×4
	Cover Plate 2 (Pre-installed)	×2
	(Pre-installed)	×12



5

F		x2		
G		x1	K4	 x1
S6		x1	S7	 x1
			S8	 x2



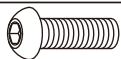
6

F

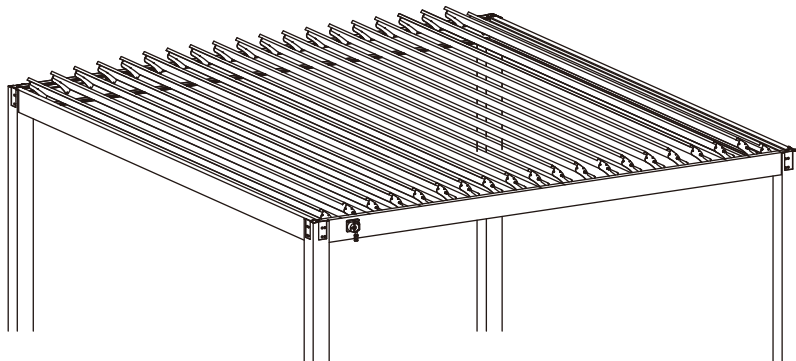


x15

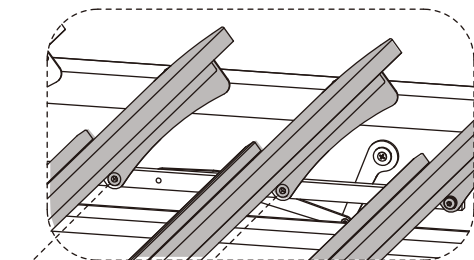
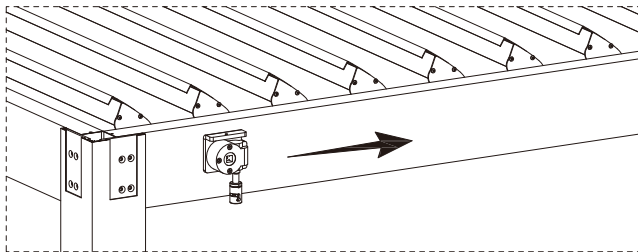
S8



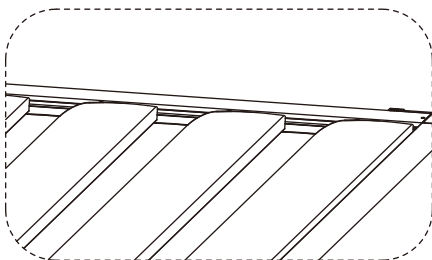
x15



**INSTALL LOUVERS BY
ALIGNING THE
LOUVER CAP HOLES
WITH THE PUSHROD
HOLES SEQUENTIALLY**



S8 x18








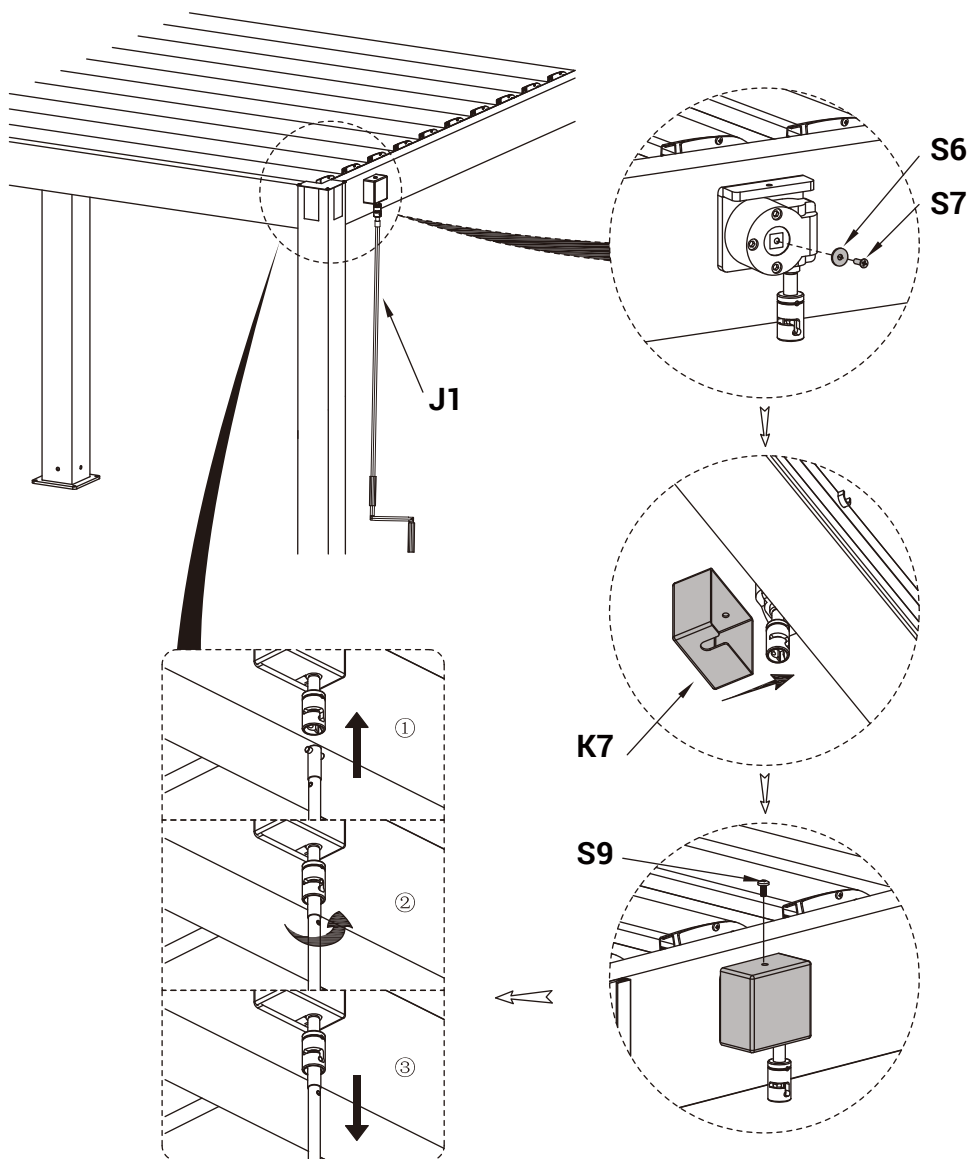
TIGHTEN SCREWS BY 4# ALLEN KEY



CURVED LOUVERS FACING UPWARD

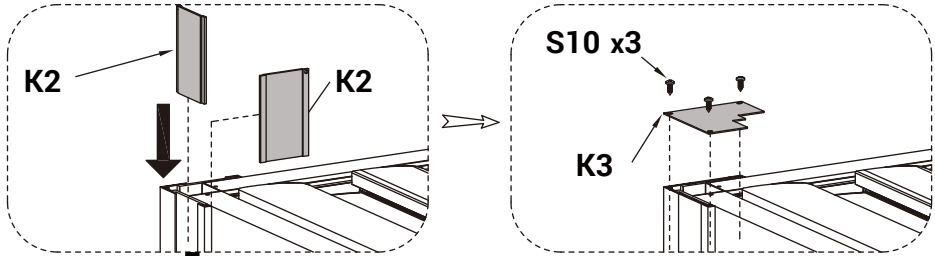
7

J1		x1	K7		x1
S6		x1	S7		x1
			S9		x1

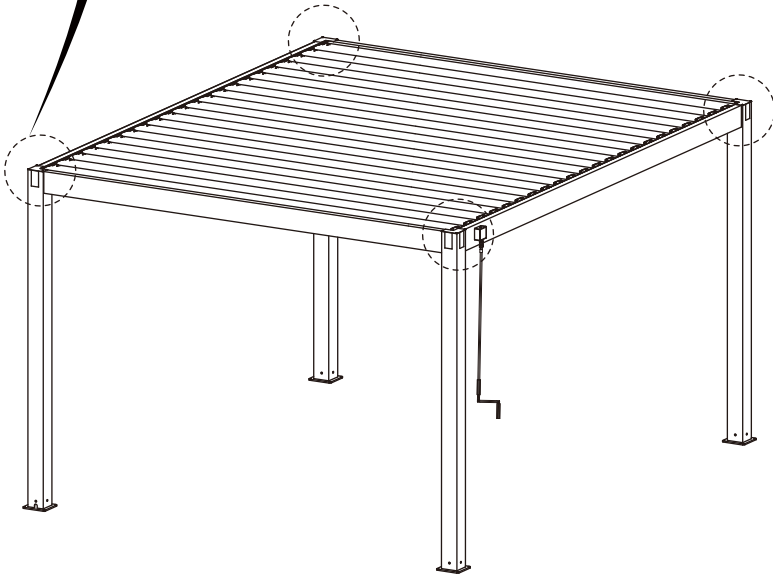





8

K2		×8	K3		×4	S10		×12
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**REPEAT THIS STEP FOR
ALL FOUR POSTS TOP.**



	Cover Plate 1 (Pre-installed)	×4
	Cover Plate 2 (Pre-installed)	×2
	(Pre-installed)	×12

REINSTALL ALL COVER PLATES

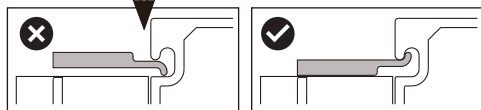
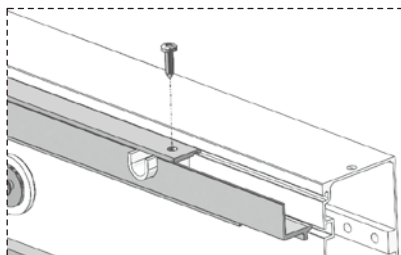
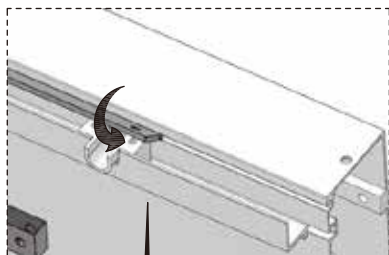
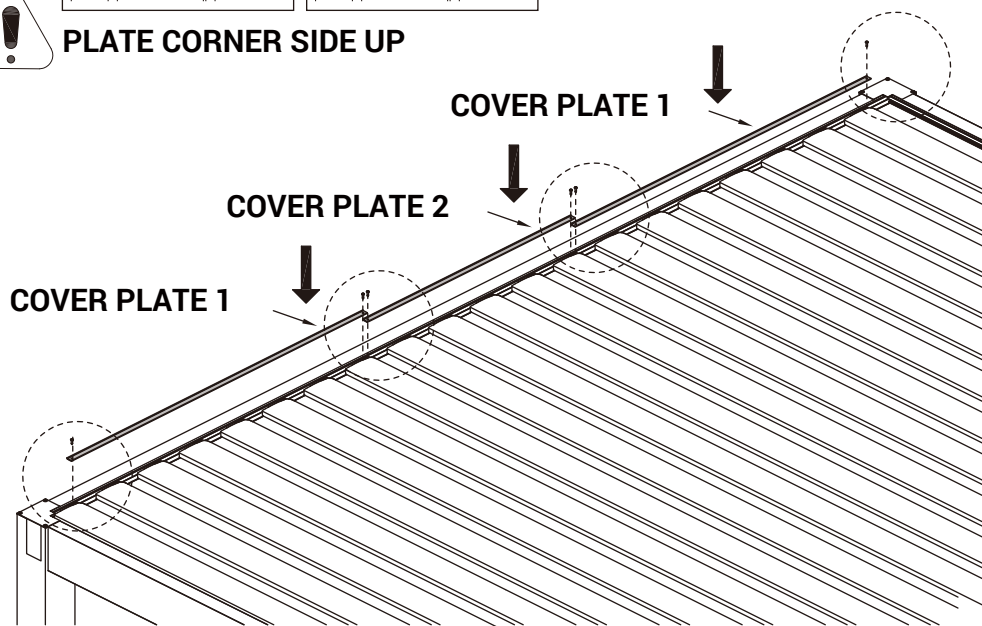


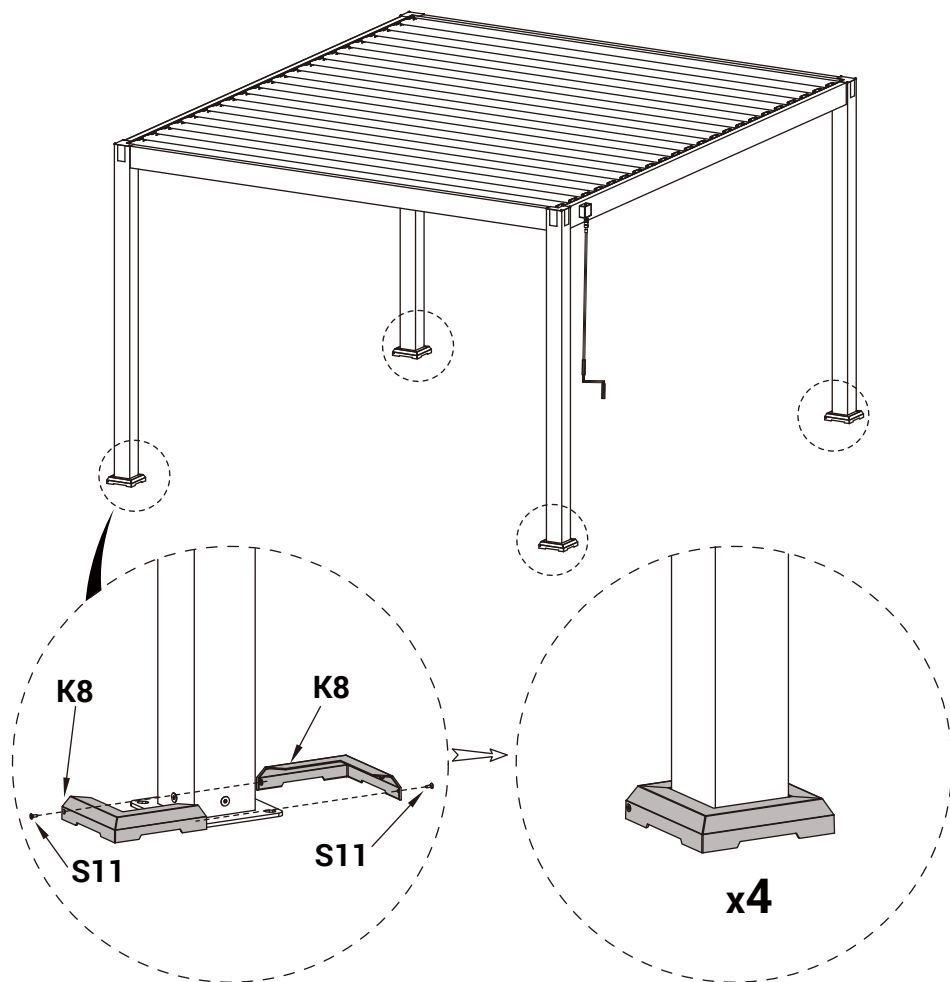


PLATE CORNER SIDE UP





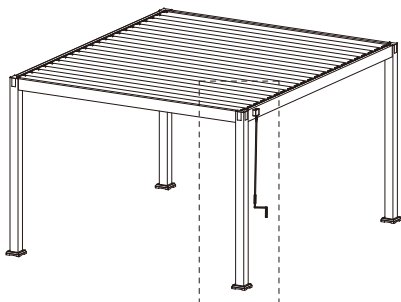
10

K8		x8	S11		x8
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11

J1		x1
J2		x2

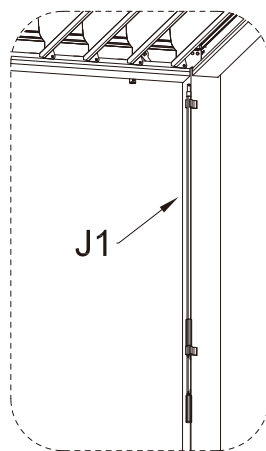
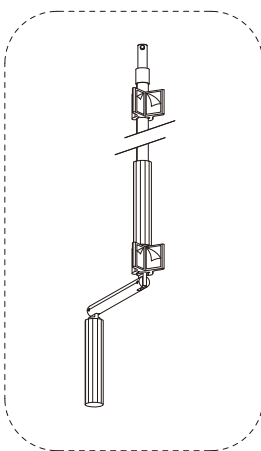
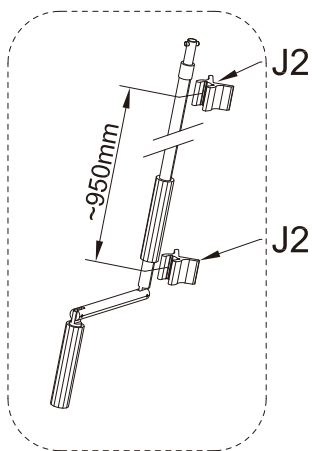


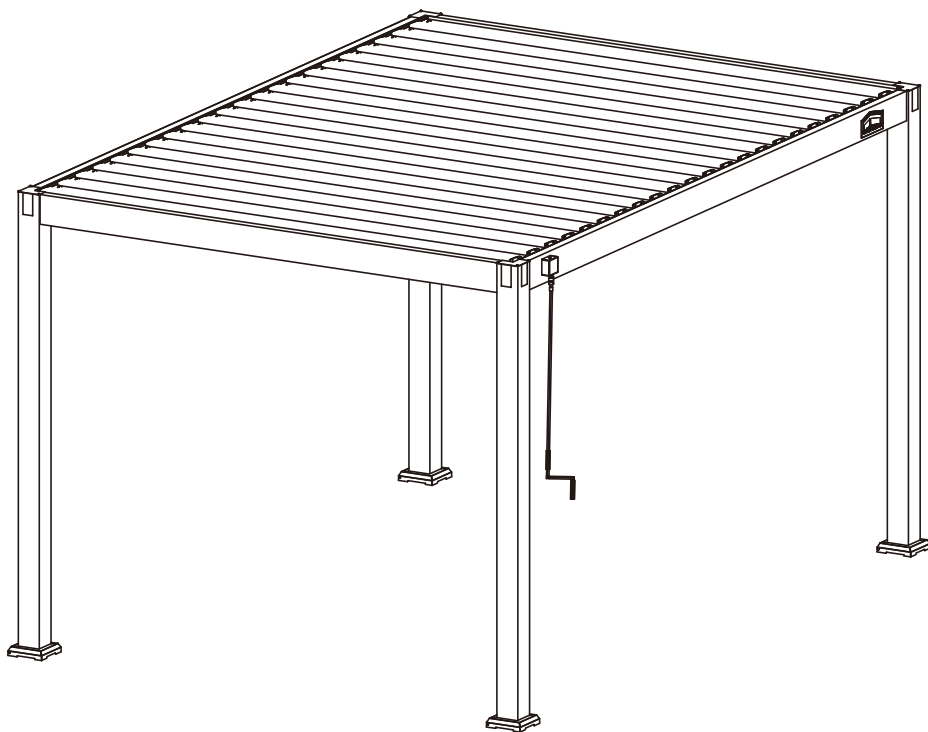
TWO CRANK HANDLE HOLDERS ARE OPTIONAL FOR INSTALLATION. FOLLOW STEPS BELOW TO INSTALL THEM ON THE POST.

STEP 1:
PRESS J1 INTO J2 AS
BELOW

STEP 2:
REMOVE THE BACK FILM

STEP 3:
CONFIRM THE POSITION ON THE
POSTS AND REMOVE J1.
PLEASE NOTE AFTER 24 HOURS,
THE HOLDERS WILL BE TIGHTLY
GLUED ON THE POST.





**ASSEMBLY COMPLETE
CONGRATULATIONS!** 



**CHECK ALL THE FITTINGS ARE TIGHTENED SECURELY.
CHECK AND TEST THE OPERATION OF THE LOUVER MECHANISM.**

MAINTENANCE & CARE

- ⚠ Immediately after installation, clean all LuxPatio powder-coated surfaces with a solution of warm water and a non-abrasive, pH-neutral detergent. Thoroughly rinse all surfaces to remove any residue, using a soft cloth or sponge for best results.
- ⚠ Remove construction materials (e.g., concrete, plaster, and paint splashes) promptly –before they dry–as they can damage powder-coated finishes.
- ⚠ Do not allow metal shavings or chips to fall into pools, hot tubs, or any body of water while assembling . This can cause staining.
- ⚠ Clean regularly. Frequency depends on both the appearance standard you desire and the need to remove deposits that may damage the coating over time. LuxPatio recommends cleaning every 3 to 4 months.
- ⚠ Debris can collect in gutters. Clean the Pergola gutters regularly to ensure proper rain water drainage through the Pergola system.
- ⚠ Never place items on top of the louvers.
- ⚠ During heavy winds or snowfall, open the louvers to the vertical position to prevent damage.
- ⚠ Do not operate the roof mechanism during icy or frosty conditions.
- ⚠ Conduct seasonal inspections to keep the Pergola in optimal working condition. Check that:
 - The Pergola is securely fixed to the ground.
 - The louver mechanism operates normally.
 - Electrical features (if any) are functional and safe.
- ⚠ Retain this instruction manual for future reference.
- ⚠ If you require service or maintenance for your LuxPatio product, please contact support@luxpatio.com

MAINTENANCE LOG

DATE	DESCRIPTION	OTHER

WARRANTY

We regret to inform you that warranty claims cannot be accepted without valid proof of purchase.

Warranties are valid from the date of delivery and apply only to the original purchaser.

To help us process your claim efficiently, please ensure that all warranty terms have been followed.

Full warranty terms are available at:
<https://www.luxpatio.com/pages/warranty>

This warranty applies only to residential use within the United States. It does not cover:

- Commercial use
- Misuse or improper handling
- Accidental damage
- Normal wear and tear

We reserve the right to repair or replace parts at our discretion rather than replacing the complete unit.

DISASSEMBLY

The serious injury and product damage could be caused by incorrect disassembly of this Pergola. For the product disassembly, it should be assigned to the qualified personnel with the full-time training on the occupational health and safety and the product knowledge.

MADE IN CHINA



WARNING: This product can expose you to chemicals including DEHP, which is known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/furniture.

Spaces for What Matters



www.luxpatio.com | Email: support@luxpatio.com