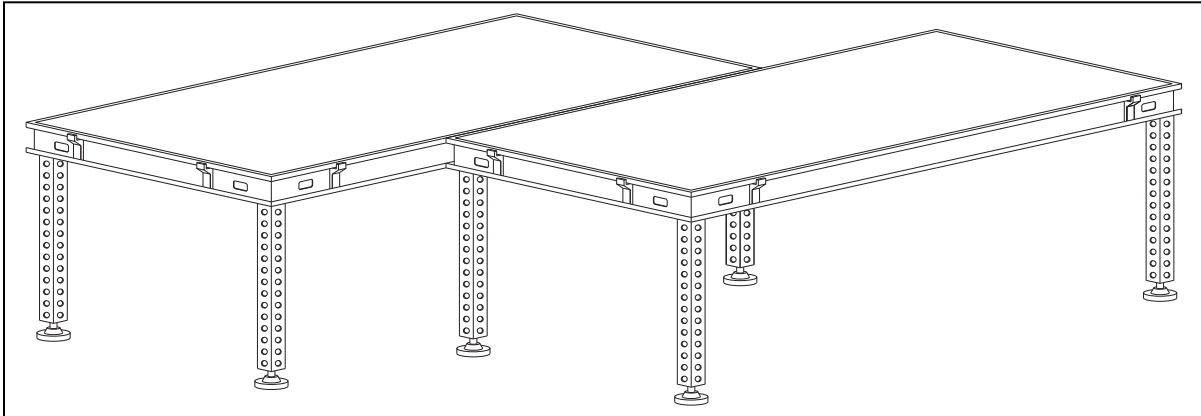
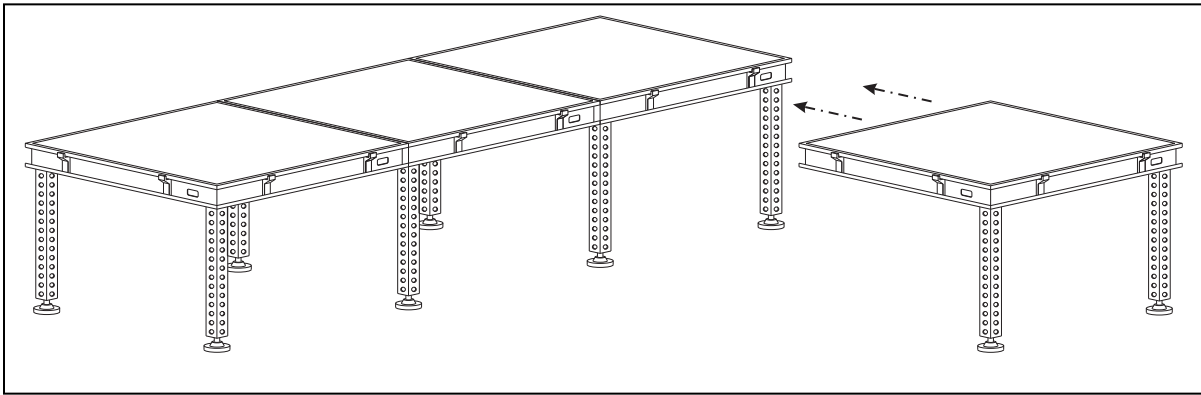


**AS 2100** Aluminum Staging System  
**BILJAX MULTI-STAGE**<sup>®</sup>  
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# ASSEMBLY INSTRUCTIONS



PRINTED IN USA

P/N: LL-204-51

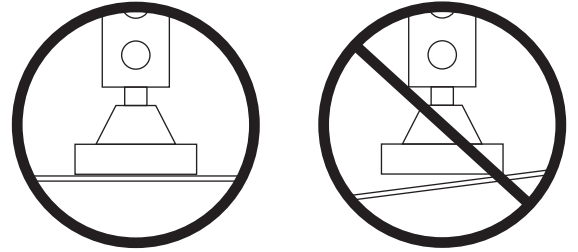
## Assembly Instructions Include:

- |                                    |                                        |
|------------------------------------|----------------------------------------|
| <b>Step 1:</b> Site Preparation    | <b>Step 8:</b> Bracing                 |
| <b>Step 2:</b> Leg Assembly        | <b>Step 9:</b> Guard Rail Installation |
| <b>Step 3-7:</b> Setting the Stage | <b>Step 10:</b> Stairs                 |



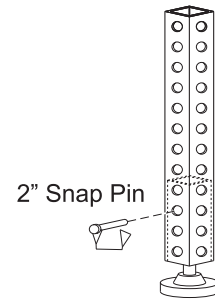
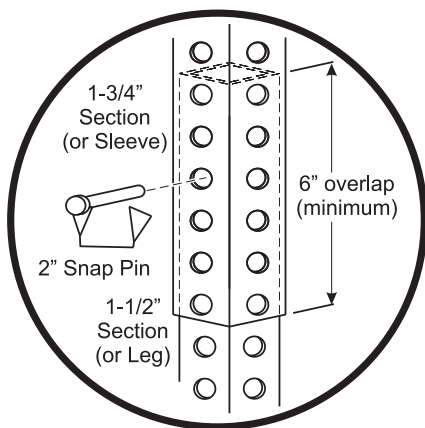
## Step 1 Site Preparation

- Determine the exact location where the stage will be erected.
- For outdoor stages, mudsills are required to distribute the weight (125 PSF to 150 PSF) on the stage legs. This will prevent the legs from sinking and ease the leveling of the stage.
- All base pads and mudsills should be placed only on a horizontal surface.



## Step 2 Leg Assembly

Attach an adjustable rubber base pad to each galvanized leg using a 2" snap pin.

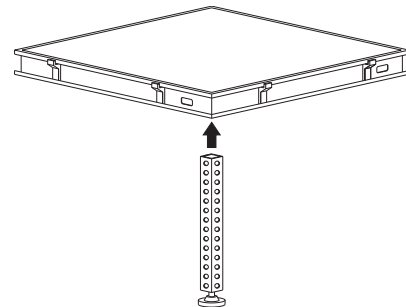


The leg sockets on the stage sections fit 1-3/4" sq. stage legs. Use one of the following only:

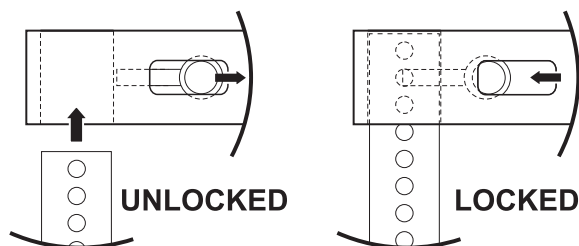
- 1-3/4" telescoping stage legs. Overlap telescoping section a minimum of 6" and secure with a 2" snap pin as shown at left.
- 1-3/4" non-telescoping stage legs.
- 1-1/2" sq. non-telescoping stage legs with a 1-3/4" sleeve. Overlap sleeve a minimum of 6" and secure with a 2" snap pin as shown at left.

## Step 3 Setting the Stage

- Insert legs completely into all four corner sockets (and into intermediate sockets, when required) of the first stage section.
- See Table on Page 8 for rated loads of all stage configurations.



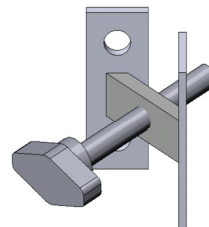
**WARNING**  
Failure to properly install stage legs will result in serious injury or death.



- Tighten the leg socket clip (image at right) at each corner socket where a stage leg is installed.

### TO INSTALL STAGE LEGS:

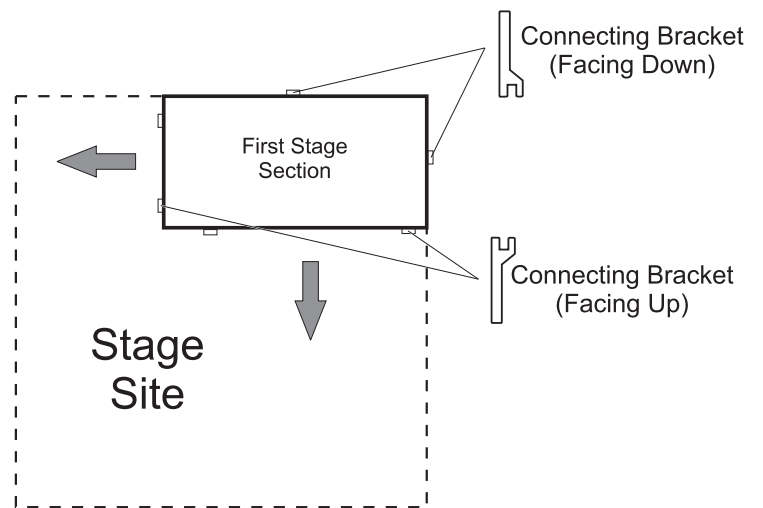
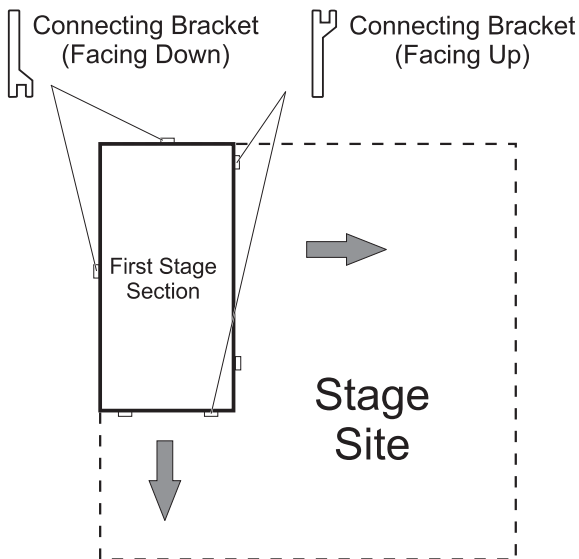
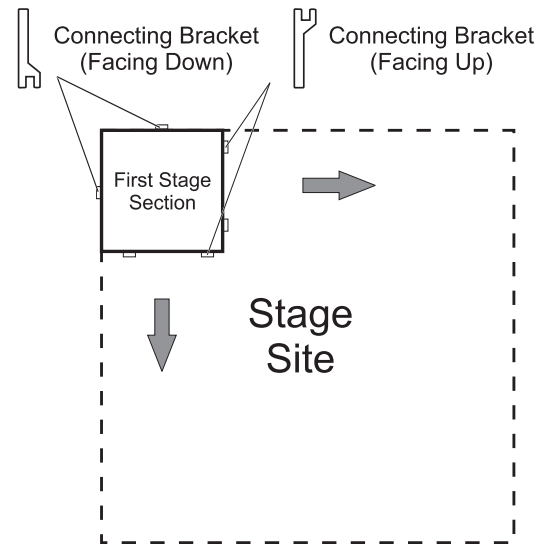
- Pull and hold pin in the unlocked position.
- Insert leg. **IMPORTANT:** Pin is not a load-bearing member. Leg must be FULLY INSERTED so that it touches the bottom of stage deck.
- Release pin to lock leg in place.



## Step 3 Setting the Stage, Continued

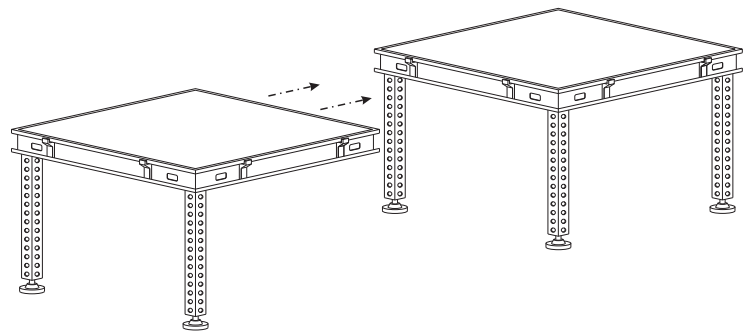
- Set first stage section in back left-hand corner of stage site. Any corner may be used as a starting point when using 4' x 4' decks exclusively.
- Align the stage section so that the connecting brackets facing up are inside the starting area and the connecting brackets facing down are outside, as shown in the diagram. *As additional stage sections are added, always make sure that the up-facing connecting brackets face toward the stage site.* Build stage in the direction(s) indicated by the arrows in the diagrams below and at right.

**NOTE: When using 4' x 8' stage sections, adjust the starting point to achieve desired stage position and shape. Up-facing connecting brackets should always face toward the stage site.**



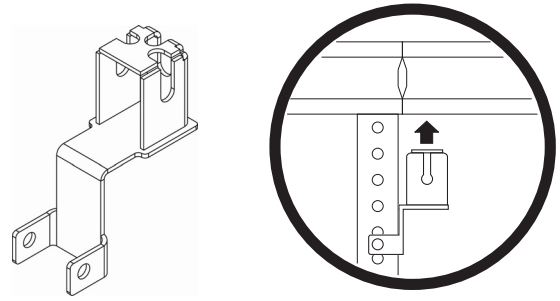
## Step 4

- Set the back row of stage sections first.
- Insert two legs into each additional stage section, as shown, and attach to previous section by inserting the connecting brackets into the C-Channel of the adjacent stage section.
- Additional stage sections should be attached so that connecting brackets facing up are inside the starting area.



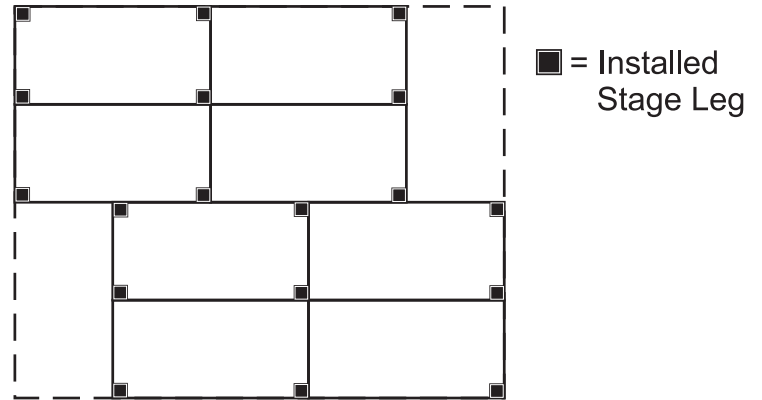
## Step 4 Continued

- D. Install Leg Brackets, as necessary. Leg brackets (shown at right) should be installed into empty leg sockets along the perimeter to prevent stage sections from sliding. Leg brackets are installed in the same way as stage legs, as shown in Step 3.



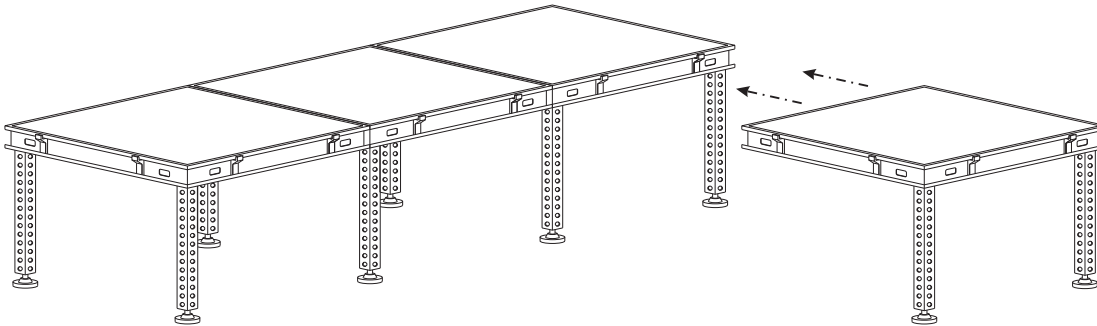
## Step 5

The modular design of the AS-2100 allows stage rows to be staggered. When staggering rows of stage sections, install 4 legs into the first stage section of each staggered row, as shown.



## Step 6

After completing the back row of stage sections, begin the second row by attaching one section with two legs.

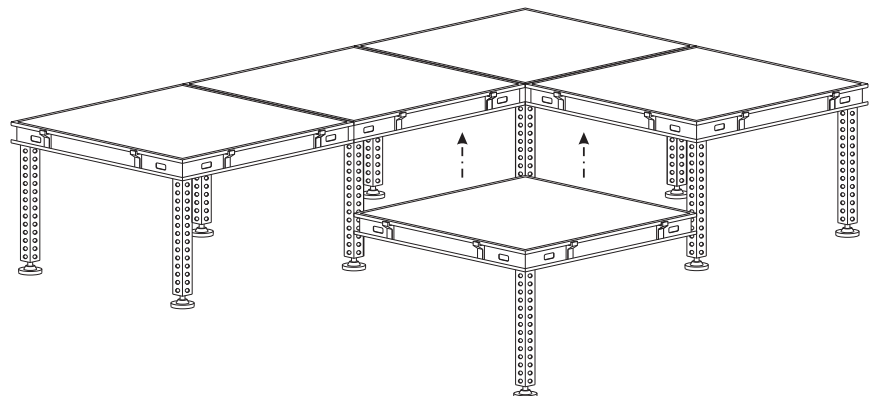


## Step 7

To continue the second row, completely insert one leg into corner socket of one stage section and attach to adjacent sections as shown.

Additional sections in each row are assembled and attached in a like manner.

Repeat Steps 6-7 for each additional row.

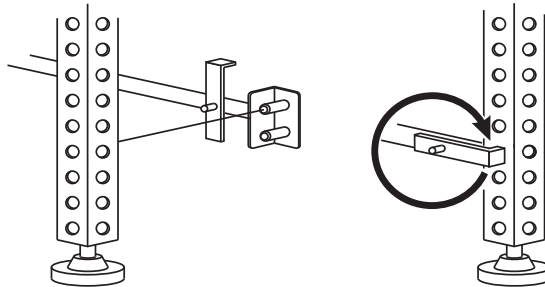


## Step 8 Bracing

Bracing is required on stages with a height greater than 30." Users may choose either horizontal or diagonal bracing. Follow the instructions below for the chosen bracing method.

### A. Horizontal Bracing

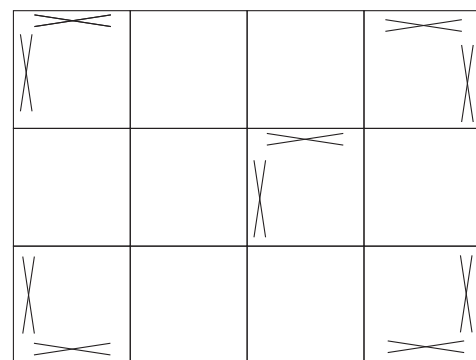
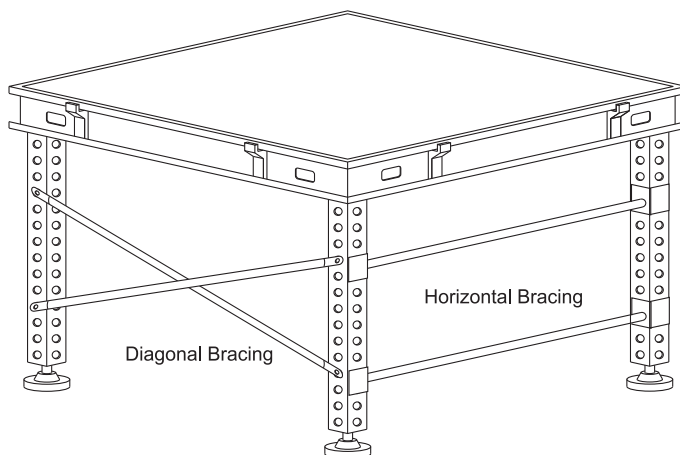
1. Brace each corner and every third bay along each side, using two braces per bay. To install horizontal braces:
  - A. Insert brace pins into stage legs.
  - B. Turn bracket until it is perpendicular with the stage. Bracket lip should rest flush against the outer edge of the stage leg.



- C. Tighten the hex nut on the front of the horizontal brace to secure the bracket.
  - D. Reverse the procedure to remove braces.
2. Use three braces per bay for heights greater than 48." The space between braces should be at least 12."
  3. Internal braces should be placed in different rows than perimeter bracing to increase stability.

### B. Diagonal Bracing

1. Brace each corner and every third bay along each side. Attach diagonal braces using 3/8" x 2-1/2" hex bolts and wing nuts. Double brace stages when height exceeds 48."
2. When using double diagonal bracing, at least one of the braces should span the connection between the 1-1/2" and the 1-3/4" telescoping sleeve.



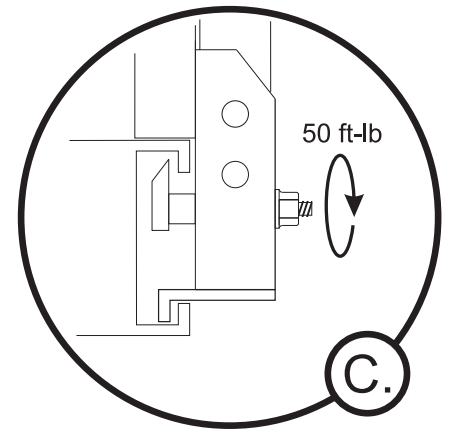
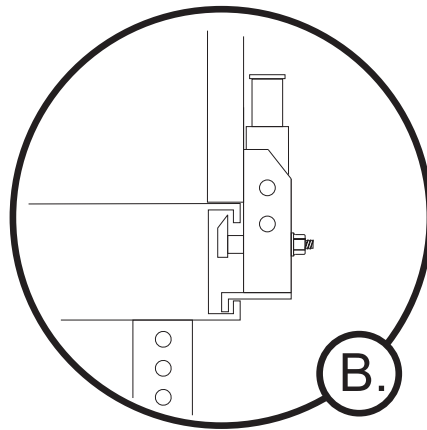
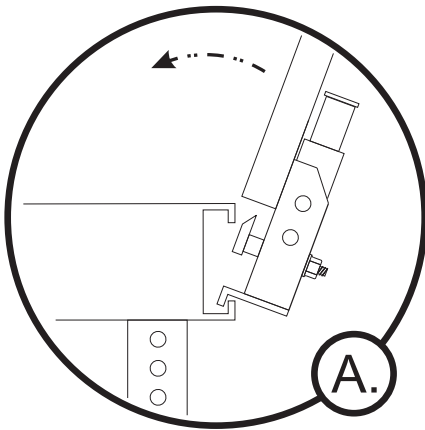
Brace corners and every third stage section as shown.

**WARNING**  
Always consult the BiJax Application Department for proper bracing requirements when stage height exceeds 5'6". (1.800.537.0540)

## Step 9 Guard Rails

Each guard rail section has two T-Locks to secure the guard rail to the Multi-Stage. To install guard rail:

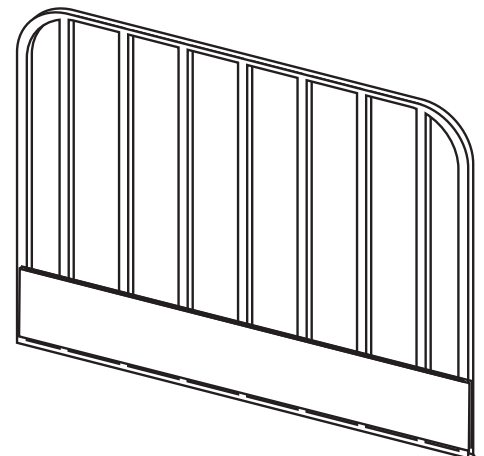
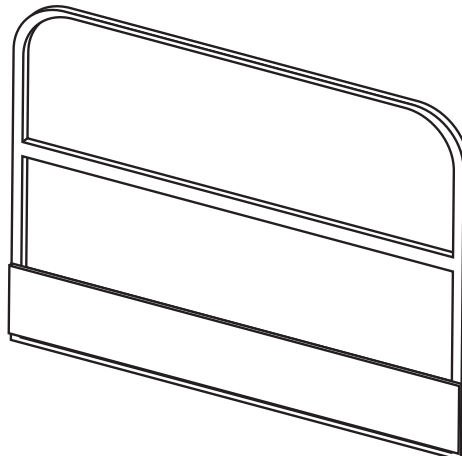
- A. Set the lower lip of the guard rail lock inside the C-Channel along the perimeter of the Multi-Stage.
- B. Swing the guard rail up until the T-Lock is fully seated within the C-Channel of the stage. Press down on plunger if necessary to seat T-Lock.
- C. Tighten the hex nut on each lock to 50 ft-lb.
- D. To remove guard rail, loosen hex nut and depress plunger to release T-Lock.



### **! WARNING**

Failure to correctly install guard rails could result in serious injury or death. Verify that each T-Lock is fully seated inside the Multi-Stage, as shown in Figure B, and guard rail is secure. T-Lock will click audibly when it is installed.

Section 1012 of the International Building Code and Section 1008.5.7 of the Uniform Building Code require the use of guard rails with vertical posts no greater than 4" apart when the stage height exceeds 30."

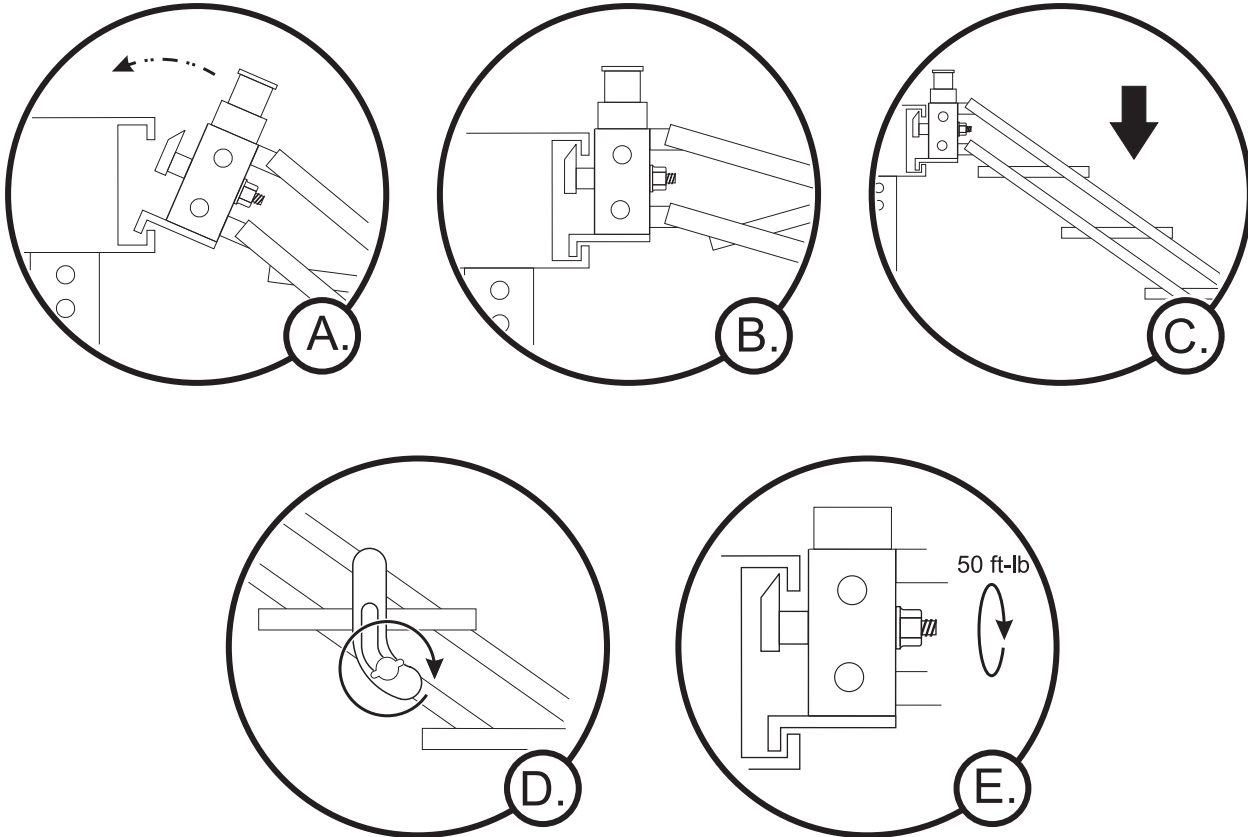


## Step 10 Stairs

Each set of stairs requires a T-Lock adapter to secure the stairs to the Multi-Stage. To begin, attach the T-Lock adapter to the stair assembly using the bolts provided.

### To install stairs:

- A. Set the lower lip of the lock inside the C-Channel along the perimeter of the Multi-Stage.
- B. Swing the stairs assembly up until the T-Lock is fully seated within the C-Channel of the stage. Press down on plunger if necessary to seat T-Lock.
- C. Extend the stairs section so that the end opposite the stage is touching the ground.



- D. Fully tighten the wing nut attached to the banana clip on each side of the stairs.
- E. Tighten the hex nut attached to each T-Lock to 50 ft-lb.
- F. Install handrails.
- G. To remove stairs section, loosen the wing nut attached to the banana clip, loosen the hex nut and depress plunger to release T-Lock.

### **!** WARNING

Failure to correctly install stairs could result in serious injury or death. Verify that each T-Lock is fully seated inside the Multi-Stage, as shown in Figure B, and stair section is secure. T-Lock will click audibly when it is installed.

## Replacement Parts

Call BilJax at 1.800.537.0540 or contact your regional BilJax representative to order replacement parts.

Part Number	Description
0105-22-__	Stage Section - 4' x 4'
0105-20-__	Stage Section - 4' x 8'
0065-0299-__	Leg - 1-3/4"
0065-0298-__	Leg - 1-1/2" Telescoping
0105-06-102	Horizontal Brace, 4'
0105-06-104	Horizontal Brace, 8'
0010-21	Cross Brace, Diagonal, 4'
0010-12-08	Cross Brace, Diagonal, 8'
0068-292/50	2" Snap Pin (Package of 50)
0030-135	Rubber Base Pad, Adjustable
0105-01-04	Leg Bracket
0105-05-102	Guard Rail, 4' W x 42," Horizontal Midrail
0105-05-101	Guard Rail, Vertical Posts
0105 -259	12" - 24" Stairs Assembly (3 Steps)
0105-269	16" - 32" Stairs Assembly (4 Steps)
0105-254	24" - 48" Stairs Assembly (6 Steps)
0105-260	40" - 80" Stairs Assembly (10 Steps)
0105-261	T-Lock Adapter for Ultra Stair Assembly
0202-0523	Decal, Made in USA
0202-0603	Decal, Warning, To Install Stage Legs
0202-0604	Decal, Multi-Stage AS-2100
0202-0605	Decal, Warning, Guard Rail Installation
0202-0606	Decal, Warning, Stair Section Installation
LL-204-51	Assembly Instructions

## Load Rating of Stage Sections

Stage Section Dimension	No. of Legs	Load Rating
4' x 8'	4 Legs	150 PSF
4' x 8'	6 Legs	150 PSF
4' x 4'	4 Legs	150 PSF