

## 2-Tier Bleacher System Tip and Roll Design

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### Installation Instructions

Refer to product packing list for parts listing

**Model BL-2TR-12DR**

**Model BL-2TR-15DR**


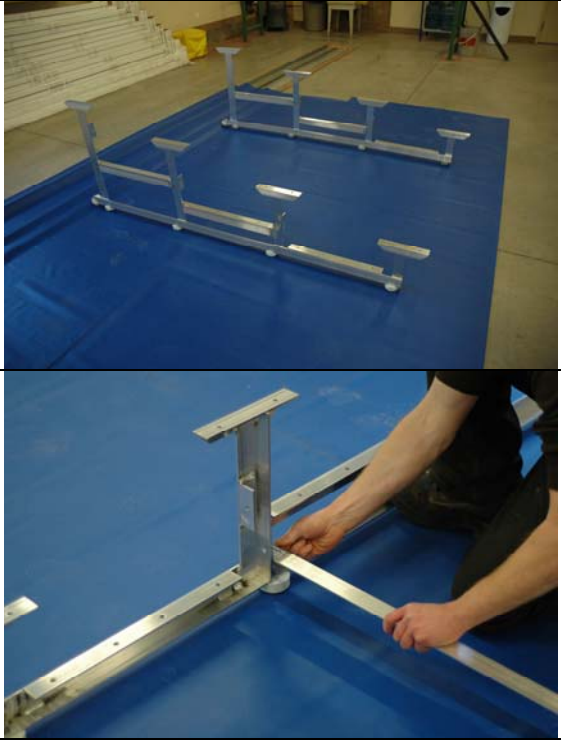
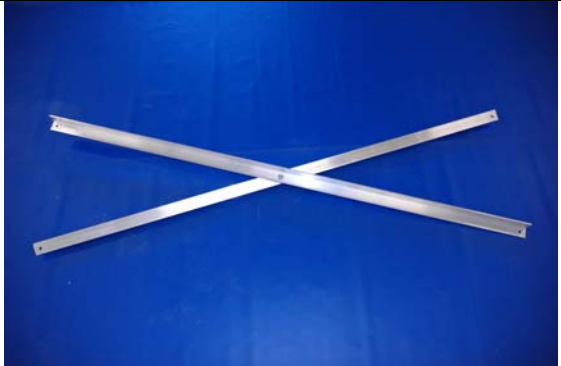
**Model BL-2TR-18DR**

**Model BL-2TR-21DR**

TOOLS REQUIRED
Tape measure
Hammer
Cordless drill
9/16" deep socket on ratchet
9/16" wrench
3/4" socket on ratchet
3/4" wrench
1/2" deep socket on ratchet
Level
3/16" metal drill bit
Pop rivet gun
1. Install four <b>non-marring rubber footpads</b> to the base of all the <b>2-tier stringers</b> .
2. Place one <b>3/8" flat washer</b> on one <b>5/16"x 1 1/4" carriage bolt</b> and put through the base of the <b>non-marring rubber footpad</b> .
3. Place the pad/washer/bolt through the base of the <b>3-tier stringer</b> and attach using one <b>5/16" flange nut</b> .



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<p>1. Space the <b>2-tier stringers</b> out so that they are 5' or 6' on centre depending on model (consult attached drawing for reference). NOTE: 4-tier model depicted in this photo</p>	
<p>1. Place one <b>x-brace (60-12 or 72-12)</b> member back to back with another <b>x-brace</b> member to form the x-brace scissor.</p> <p>2. Insert a <b>3/8" x 1 1/4" bolt and 3/8" flange but</b> in the centre of two pieces of angle to form x-brace. Loosely tighten these bolts so that the x-brace can be maneuvered like a scissor.</p> <p>3. Use a <b>3/8" x 1 1/4" bolt and 3/8" flange nut</b> hardware to connect the x-braces to the <b>2-tier stringers</b> on the 3<sup>rd</sup> row.</p> <p>4. Plumb the <b>2-tier stringers</b> prior to tightening the x-braces</p>	

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using a level in order to ensure the stringers are level and sitting 5' or 6' on centre depending on model.

5. Use ratchet with 9/16" socket and a 9/16" wrench to tighten all **x-braces** to the **stringer frames**. NOTE: 4-tier model depicted in this photo



1. Place **2"x10" end cap (anodized finish)** on end of **2"x10" plank (anodized finish)**.

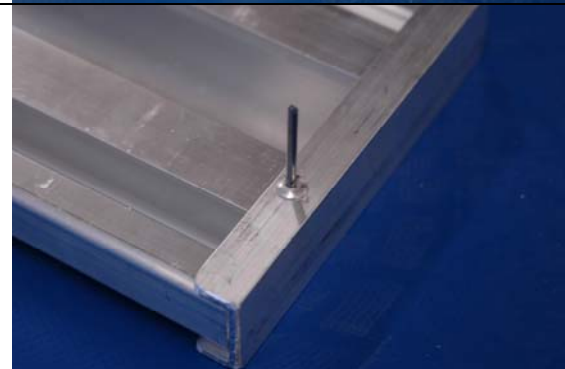
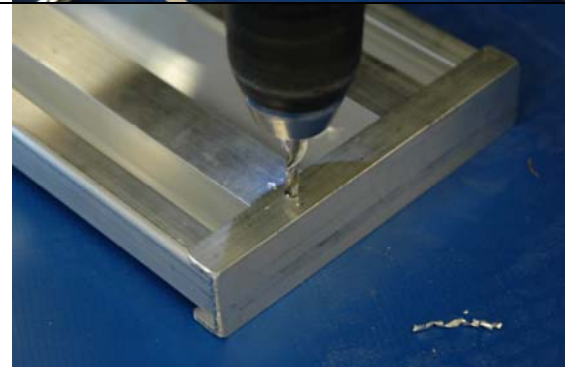
NOTE: the anodized aluminum plank will have a dull grey appearance when set beside a mill-finished aluminum plank. The anodized aluminum planks will become the seat planks for the bleacher system. Anodized planks are less likely to oxidize and give off aluminum dust and are therefore designed to act as a seat plank. The end caps fit snugly on the end of the aluminum plank and may need to be tapped on using a hammer and block of wood or a rubber mallet. Place end cap so that the long leg of the channel is on the underside of the seat plank.

2. When fit on the plank, drill through the end cap and plank with 3/16" metal bit in 2 places.

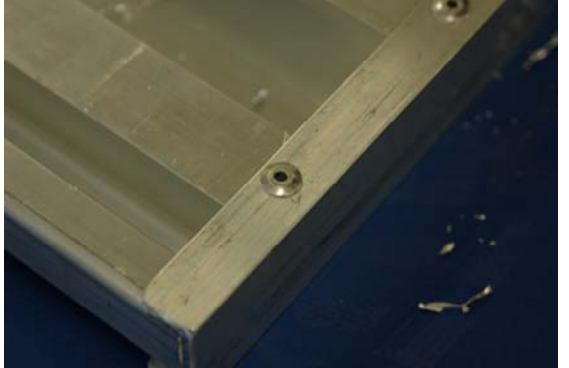


3. Secure the channel to the plank with **3/16" aluminum pop rivets** x 2 ea.

4. Repeat this step on the opposite end of the plank.

5. Repeat steps 1-4 for the **2"x10" planks (mill finish)**.



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<p>1. Use <b>5/16" x 1 1/4" bolt and 5/16" flange nuts</b> with <b>retainer clips</b> to secure planks to riser board areas. Use <b>1/2"</b> deep socket to secure this hardware arrangement. Use a nominal 2 x 10 (mill finished) plank for your riser</p> <p>2. Install one riser beneath seating row #2.</p>	
<p>1. Use <b>5/16" x 1 1/4" carriage bolt, 5/16" lock washer and 5/16" nuts</b> with <b>retainer clips</b> to secure planks to seat and footboard areas. Use <b>1/2"</b> deep socket to secure this hardware arrangement.</p> <p>NOTE: <b>2"x10" plank</b> (anodized finish) (dull finish) will act as seat boards and <b>2"x10" plank</b> (mill finish) (shiny finish) will act as footboards.</p>	

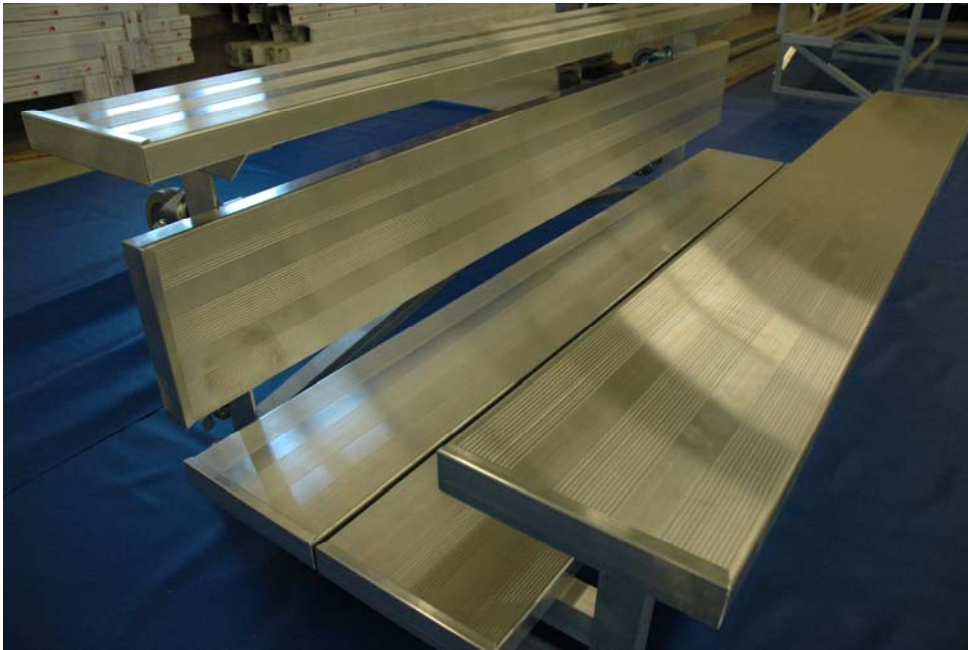
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1. Attach a **locking caster** to the bottom end of the **2-tier stringer** using a **½" flange nut** on outer most stringers only.
2. Attach a regular **non-locking caster** to all other locations on **2-tier stringer** using a **½" flange nut**.



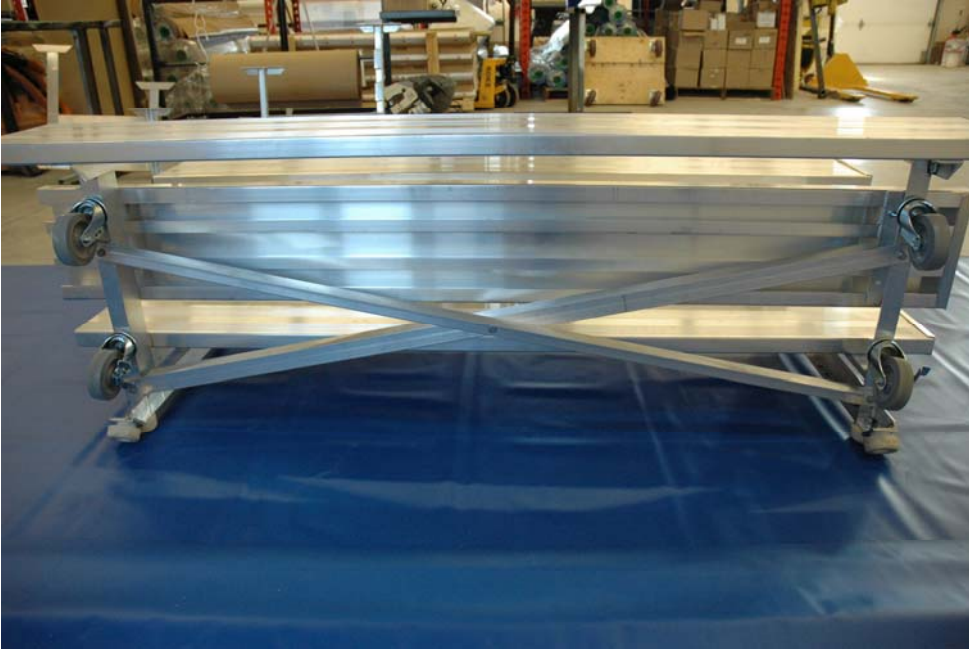
### Finished Product Photos



Assembled 2-tier bleacher system

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Rear view of assembled BL-2TR-6DR (6' long)

### **Important**

*Sport Systems makes every effort to ensure that its assembly instructions and other printed material are kept up to date. However, written specifications are subject to change without notice.*

### **Operation & Maintenance**

Never transport or use this bleacher on uneven or sloping surfaces. Bleachers must be used on smooth & level ground to perform as they have been designed to perform

Never transport this bleacher over wet surfaces

Standing on the 2<sup>nd</sup> row of this bleacher will increase the risk of tip over. Never overload the top row of this bleacher or stand on the top row of this bleacher. Distribute weight evenly by ensuring that spectators occupy the 1<sup>st</sup> and 2<sup>nd</sup> row in an even manner

Never transport this bleacher in windy conditions. High winds can cause this bleacher to tip over or potentially injure users

Always inspect this bleacher for loose or missing hardware. If parts are missing contact the manufacturer directly at 1-877-600-4667 to secure replacement parts

### **Installation**

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*Unless Sport Systems has agreed expressly to provide installation services, Buyer is responsible for installing & assembling products. Buyer assumes full responsibility for the proper installation & assembly of products.*

### **Instructions and Warnings**

*Sport Systems shall have no liability whatsoever for injury, damages, losses and expenses arising as a result of a failure to follow instructions from Sport Systems related to the proper installation, use, care and maintenance of products. Buyer should follow all such instructions, including without limitation:*

*PRODUCTS SHOULD BE INSPECTED PRIOR TO EACH USE FOR DAMAGE AND DETERIORATION AND SHOULD NOT BE USED IF DAMAGED OR DETERIORATED.  
PRODUCTS SHOULD NOT BE USED BY PARTICIPANTS WITHOUT PROPER TRAINING AND SUPERVISION.*

### **Building Codes**

*These Tip & Roll bleachers are designed in accordance with both the NBC 2005 (National Building Code of Canada) and the OBC 2006 (Ontario Building Code). The buyer remains responsible for compliance with any other local or jurisdictional codes. Drawings stamped by a registered professional engineer are not included unless noted in the associated quote or invoice. Please consult with local code officials to determine any additional features which may be desired or required. Official interpretation and application rests solely with local authorities. Sport Systems Canada Inc. and its representatives cannot assume liability for code compliance and presents this information as unofficial guidelines only.*