

Assembling the Floor Marker Stand

Overview

The Floor Marker Stand is a fixed reference structure designed to hold a marker panel in a studio environment. It is typically used with free-roaming robotic systems, such as Artimo, to serve as a visual reference for targeting, geofencing, or map alignment. This procedure outlines how to assemble the Floor Marker Stand using the supplied components and hardware.

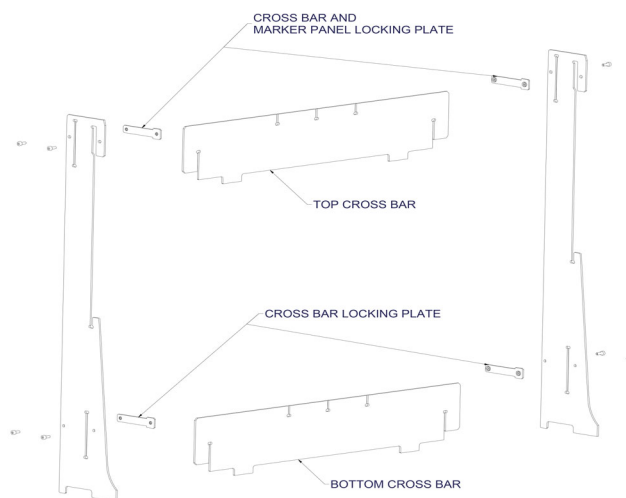
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Required Tools and Materials

- 2.5 mm hex key — Required to install all fasteners used with the locking plates and cross bars.
- Loctite 243 Adhesive — Recommended for use on all fasteners to prevent loosening due to vibration, in line with Ross standard mechanical procedures.

Floor Marker Stand Components

- 2× Side Legs
- 1× Top Cross Bar
- 1× Bottom Cross Bar
- 1× Marker Panel
- 1× Clear Stand Base
- 4× Cross Bar Locking Plates (2x Cross Bar, 2x Combined Locking Plates)
- 8× Screws



Assembly Procedure

Attach the Bottom Cross Bar to the Side Leg

1. Insert the bottom cross bar into the first side leg.
2. Align the mounting ends and press the bar fully into the leg slot.

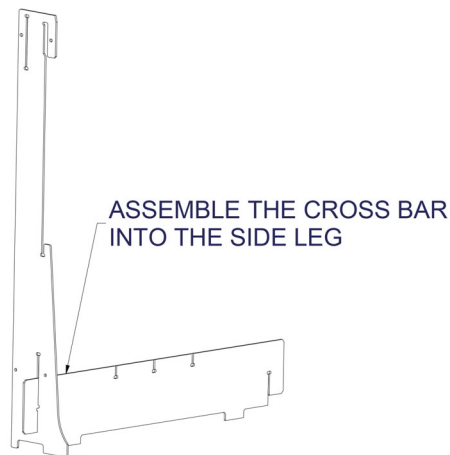


Figure 1 - Inserting the Bottom Cross Bar into the First Side Leg

Attach the Second Side Leg

1. Attach the second leg to the opposite end of the bottom cross bar.
2. Ensure both legs are aligned vertically and the base frame is square.



Figure 2 - Attaching the Second Side Leg to Complete the Frame Base

Attach the Top Cross Bar

1. Position the top cross bar between the side legs at the upper mount points.
2. Insert fully until seated evenly.

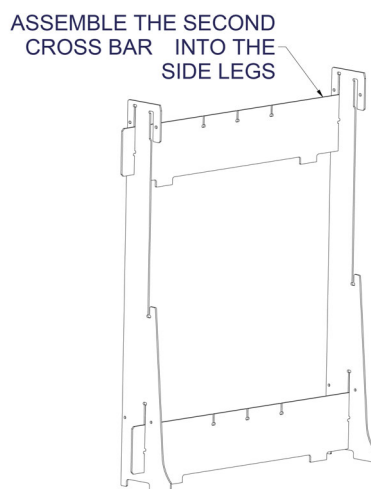


Figure 3 - Mounting the Top Cross Bar Between the Side Legs

Install Lower Locking Plates

1. Secure the two locking plates to the lower cross bar using the provided screws.
2. Apply Loctite 243 to each fastener prior to tightening.
3. Torque evenly using a 2.5 mm hex key.

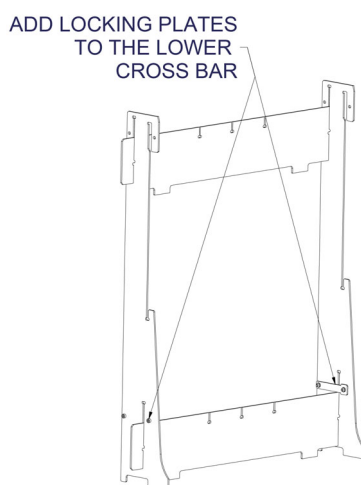


Figure 4 - Securing Locking Plates to the Lower Cross Bar

Install the Marker Panel

1. Slide the marker panel into position behind the top and bottom cross bars.
2. Ensure it is centered within the frame and seated evenly.

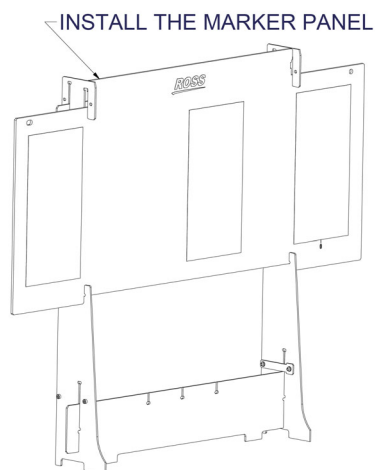


Figure 5 - Placing the Marker Panel into the Frame

Note: Ensure the **Ross** logo on the marker panel is facing upright when installed.

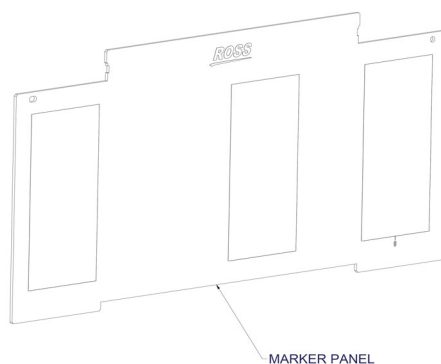


Figure 6 - Ross Logo on Marker Panel

Secure Upper Locking Plates

1. Attach the remaining two locking plates to the top cross bar and marker panel.
2. Apply Loctite 243 to all screws and tighten securely with a 2.5 mm hex key.

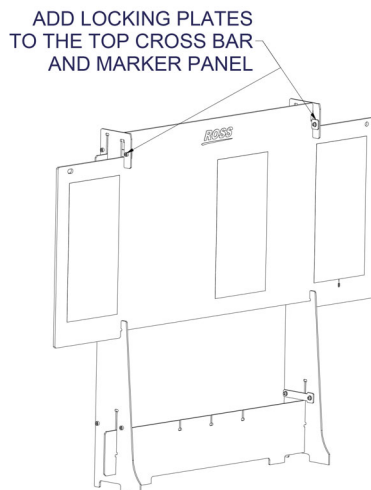


Figure 7 - Installing Locking Plates to Secure the Marker Panel and Top Cross Bar

Final Checks

- Confirm that all fasteners are installed and tightened.
- Ensure the frame is square and stands evenly on the floor.
- If applicable, affix the clear base to the studio floor using approved adhesive or fasteners. Ensure the orientation of the clear stand base matches the figure below.

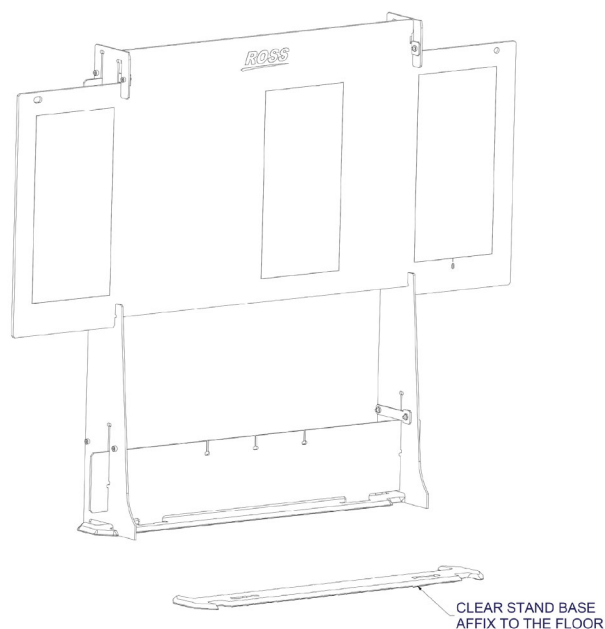


Figure 8 - Clear Stand Base Installation

Note: Ensure the notches on the Clear Stand Base face toward the front of the studio in the orientation as shown:

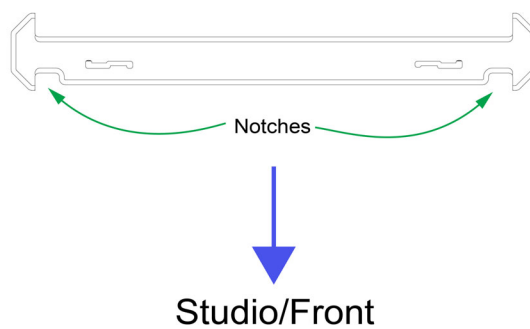


Figure 9 - Clear Stand Base Orientation