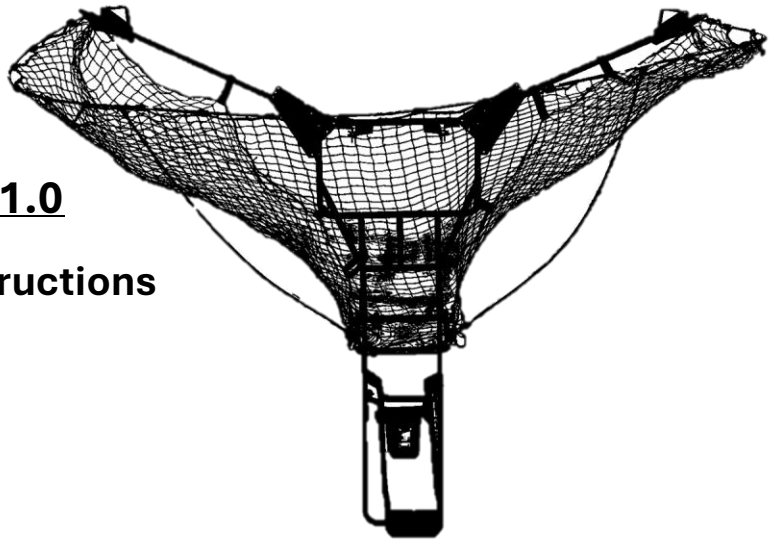
SWISH-HOOP
SHOTS THAT COUNT

Swish Hoop®

Twister™

Automated Rebounding Machine



Assembly Instructions v1.0

- **First Time Assembly Instructions**
- Folding Instructions
- Unfolding Instructions

Contact Swish Hoop® for help: ***support@swishhoop.com***

 Assembly Instructions v1.0 Model SHW0411

Swish Hoop® Twister™ – Automated Rebounding Machine*

For additional help, watch the video at ***https://swishhoop.com/twister-assembly***

Parts List

- Ⓐ Rim Ring (1)
- Ⓑ Left Lateral Arm (1)
- Ⓒ Right Lateral Arm (1)
- Ⓓ Upper Frame (1)
- Ⓔ Stiffening Bars (2)
- Ⓕ Lower Frame (1)
- Ⓖ Swivel Unit (1)
- Ⓗ Ball Ramp (1)
- Ⓘ Left Backboard Hook (1)
- Ⓙ Right Backboard Hook (1)
- Ⓚ Net Frame (1)
- Ⓛ Net Frame Extensions (4)
- Ⓜ Capture Net (1)
- Ⓝ Stabilization Cable (2)
- Ⓞ Carabiner Clips (4)
- Ⓟ Cable Anchors (2)
- Ⓠ Net Clips (18)
- Ⓡ Short Hook-and-Loop Straps (10)
- Ⓢ Long Hook-and-Loop Straps (14)
- Ⓣ 35mm Screws (8)
- Ⓤ 40mm Screws (8)
- Ⓥ Washers (24)
- Ⓦ Nuts (14)
- Ⓧ Hex Wrench (1)
- Ⓨ Nut Wrench (1)
- ① Wall Charger (1)
- ② Charging Cord (1)

Warnings

⚠ WARNING – THE TWISTER SYSTEM ADDS WEIGHT TO THE BACKBOARD, WHICH MAY REQUIRE ADDITONAL COUNTERBALANCE WEIGHTS TO BE ADDED TO A MOBILE BASKETBALL GOAL, SO THAT IT DOES NOT FALL FORWARD DURING USE

⚠ WARNING – THE TWISTER IS AN AUTOMATED MACHINE WHICH MAY MOVE AT ANY TIME. STAY CLEAR OF THE RAMP AND OTHER MECHANISMS TO AVOID INJURY.

⚠ WARNING – THE TWISTER WILL NOT SUPPORT THE WEIGHT OF A PERSON AND MAY RESULT IN INJURY IF A PERSON OF ANY SIZE PULLS OR HANGS ON THE SYSTEM.

⚠ WARNING – TO AVOID INJURY, READ AND UNDERSTAND THE TWISTER™ USER MANUAL BEFORE OERATING THE SYSTEM.

This device complies with Industry Canada's license-exempt RSSs and part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Change or modifications that are not expressly approved by the manufacturer could void the user's authority to operate the equipment.
Cet appareil est conforme aux normes d'exemption de licence RSS d'Industrie Canada. Son utilisation est soumise aux deux conditions suivantes: 1. Cet appareil ne doit pas provoquer d'interférences, et 2. Cet appareil doit supporter toute interférence,y compris celles pouvant provoquer un fonctionnement non souhaité de l'appareil.

Contains FCC ID: 2ABU6-MS88SF2 Contains IC: 20896- MS88SF2

Shooter's Touch, LLC
Boston, MA, USA
www.SwishHoop.com

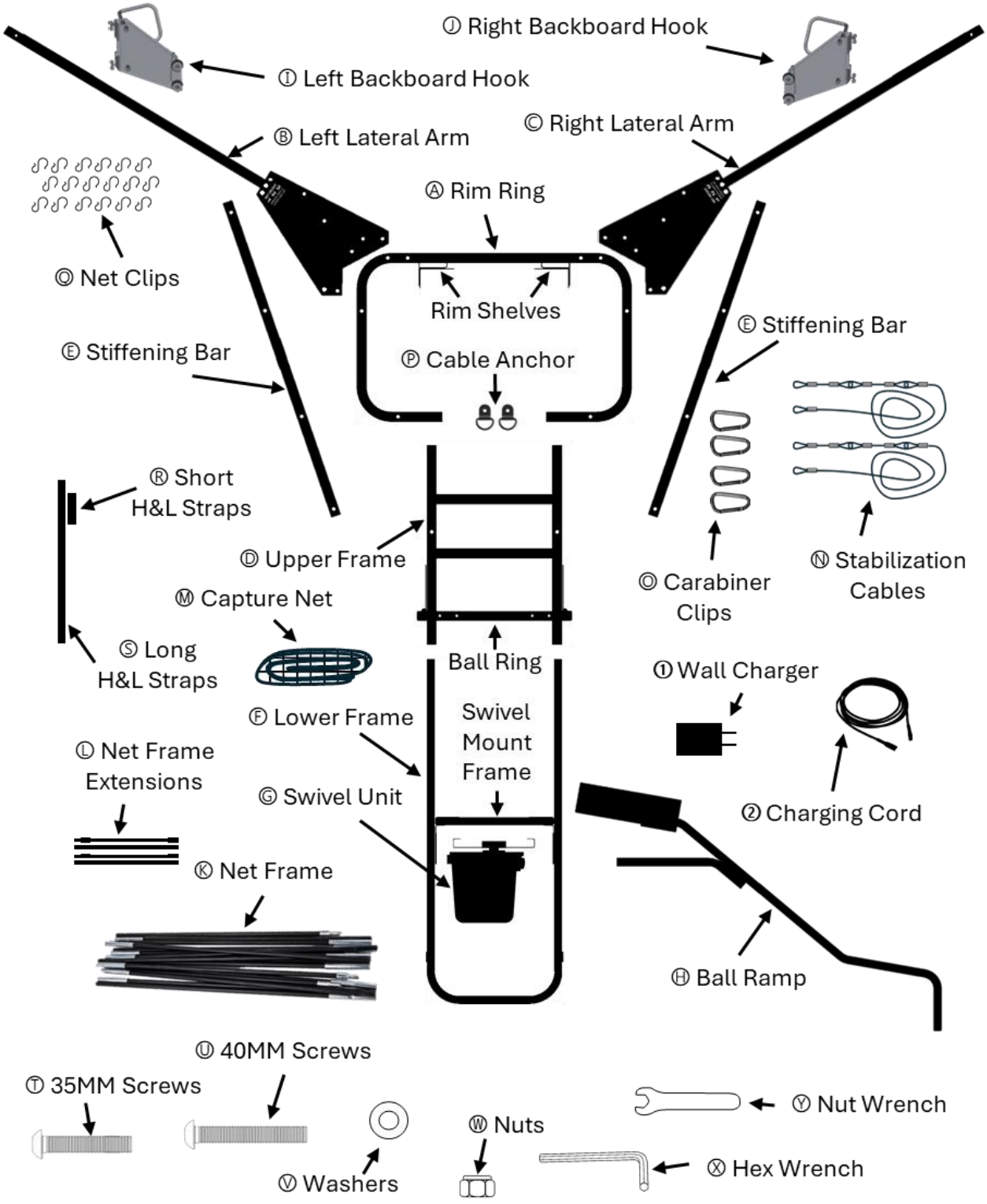
Made in China

Swish-Hoop® and Twister™ are trademarks of Shooter's Touch, LLC

* Patents pending: www.SwishHoop.com/patents

What's In the Box

Lay everything out before you start—like prepping for a championship game.



Introduction

Congratulations! You are the owner of the world's most advanced, transportable, basketball-rebounding system. The Twister™ returns made and missed shots to any court location, allowing you to get up many more shots without convincing someone else to spend hours rebounding for you.

The Swish Hoop® Twister™ is made from aircraft-quality aluminum and fiberglass materials, making it strong, lightweight and collapsible. It can be used indoors or outdoors, as it is water resistant and rechargeable battery operated.

There are 12 different "offline" drills (Programs) that are accessible through the system's touch screen. Each Program automatically delivers rebounds to one or multiple court locations in sequence. When connected to the Swish Hoop® Player App, the system has expanded access to over 300 expertly video-demoed "online" drills and workouts, for highly effective training regimens. Combining your system with a Swish Hoop® Basketball Training System (sold separately), it will also track your shots (makes and misses) and generate shot charts with stats for each player and each shooting location on the court.

First Time Assembly Instructions

First Time Assembly

These instructions describe the initial assembly and setting up of the Twister™ Automated Rebounding Machine. After the initial system assembly, any subsequent system setup requires many fewer steps and no tools. This guide sets up the lowest capture-net height (11.5 ft). For taller configurations (12 or 12.5 ft), check out the "Unfolding Instructions".

Before You Begin: Backboard Basics

Grab a tape measure and check your backboard:

Width: Common sizes are 36", 40", 44", 48", 54", 60", and 72"
Thickness: Usually 2–3 inches

Got a rounded, fan-shaped backboard? You might need a few tweaks during setup—but we've got you covered.

Step-By-Step Assembly Instructions

Let's get your Twister™ system game-ready—no sweat, just swishes.

Need help? Scan the QR code to check out the animated video showing how the system is assembled. Or reach out anytime: support@swishhoop.com

---

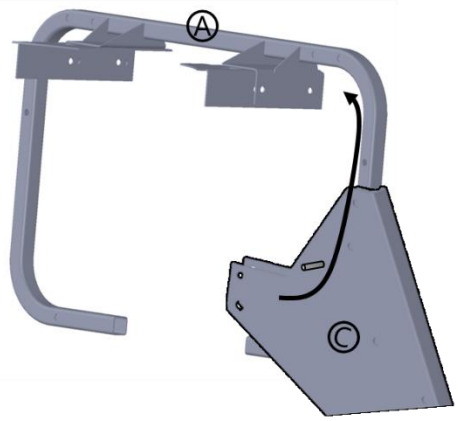
Step 1. Upper Frame Assembly

Time to build the backbone of your Twister™ system!

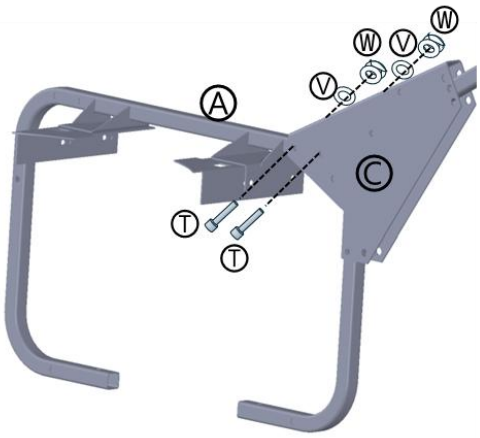
What you will need:

Ⓐ Rim Ring	Ⓣ 35mm Screws (8)
Ⓑ Left & Ⓒ Right Lateral Arms	Ⓤ 40mm Screws (8)
Ⓓ Upper Frame	Ⓥ Washers (24) & Ⓦ Nuts (14)
Ⓔ Stiffening Bars (2)	Ⓧ Hex Wrench & Ⓨ Nut Wrench
Ⓟ Cable Anchors (2)	

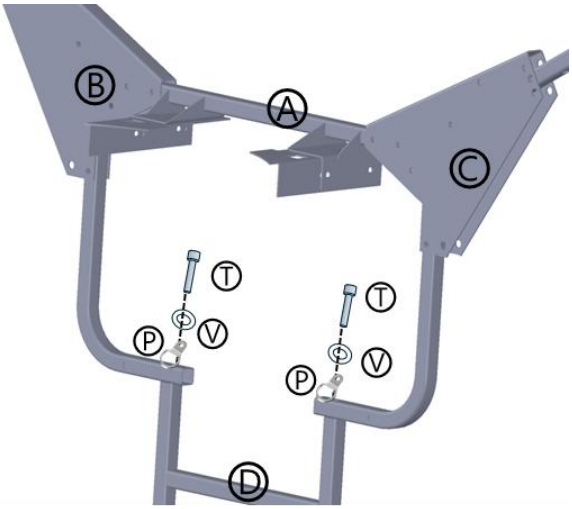
- Lay the Rim Ring Ⓐ flat with the open gap facing down and the Rim Shelves pointing up.
- Snake the curved ends of the ring through each Lateral Arm Ⓑ Ⓒ, keeping the shafts of the plastic feet on the inside of the ring.



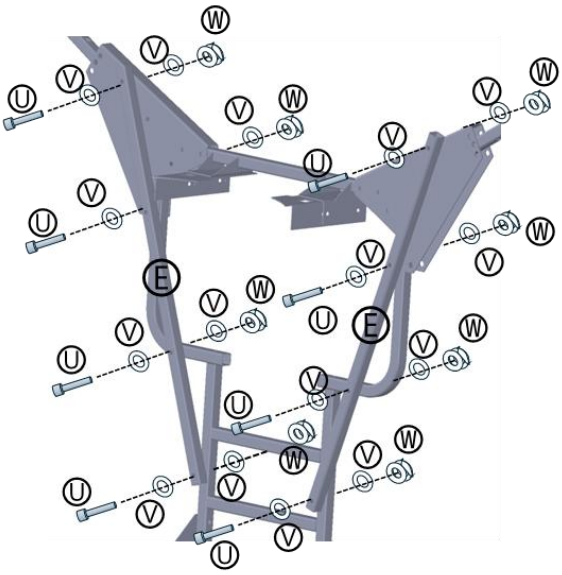
- Use two 35mm screws Ⓣ, washers Ⓥ, and nuts Ⓦ at the top of each arm. Don't tighten completely yet—we'll come back to these!



- Slide a Washer Ⓥ and Cable Anchor Ⓟ onto each of two 35mm screws Ⓣ.
- Screw through the Rim Ring Ⓐ into the top of the Upper Frame Ⓓ, making sure the Cable Anchor loops face up (forward).



- Use four 40mm screws Ⓤ, eight washers Ⓥ, and four nuts Ⓦ to secure each Stiffening Bar Ⓔ to the front of the system. Place washers under both screw heads and nuts. When tightened, the frame may flex slightly—totally normal.
- Flip up the Ball Ring that is hinged to the Upper Frame Ⓓ so it's perpendicular to the frame. Press the two buttons at the back to lock it in place—watch your fingers!



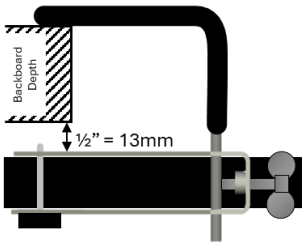
- Set the net height: Rotate both Lateral Arms to position "1" (lowest height) and extend the inner telescoping arms until the spring buttons click into place at the "1" arrow.

OK, you can relax now (but just a little) because we're done with the tools.

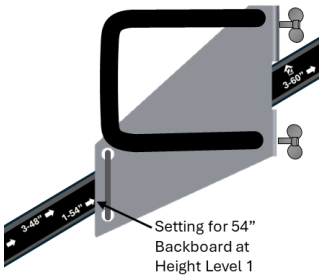
Step 2. Backboard Hook Assembly

What you will need:

ⓘ Left & ⓙ Right Backboard Hooks	Threaded knobs (already attached)
Wing Screws (already attached)	



- Loosen the wing screws on each Backboard Hook ⓘ ⓙ.
- Adjust the spacing between the Hook and Mount to be about ½" (13mm) wider than your backboard thickness.



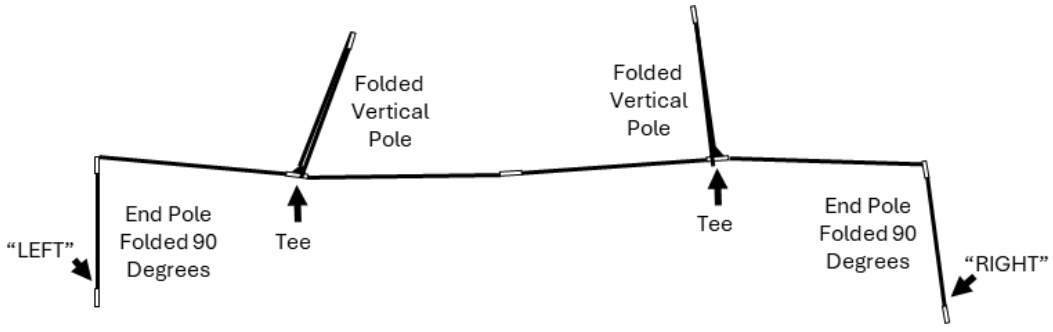
- Loosen the front knobs and slide the Right Hook (with the "RIGHT" label on it) onto the Right Lateral Arm and align its edge with the arrow on the arm back labeled with your measured backboard width and the number "1".
- Tighten the front knobs to lock it in place.
- Repeat for the Left Hook (with the "LEFT" label on it).
- Lay the whole frame flat with the hooks against the ground.

Step 3. Net Frame Assembly

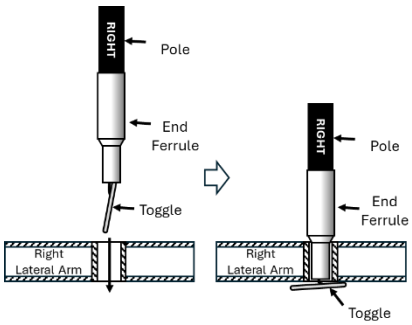
What you will need:

Ⓚ Net Frame	Metal toggles (attached to the long poles)

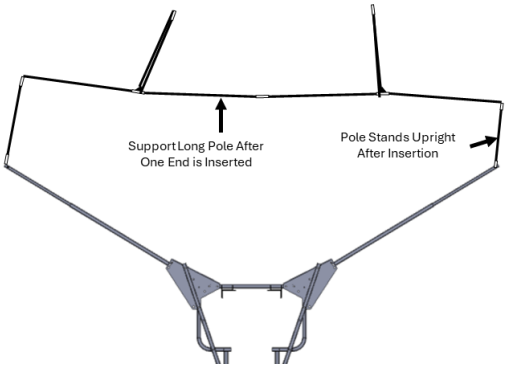
- Open the Net Frame Ⓚ on a large flat surface.
- Set aside the 4 short extension poles—they're for taller net heights (not used for height "1").
- Make sure the center four poles are inserted into their metal ferrules and tees. Don't insert the two end poles of the long chain—yet. Keep them bent 90 degrees from the other poles. Also, the vertical poles (center poles in the tees) may be kept folded.



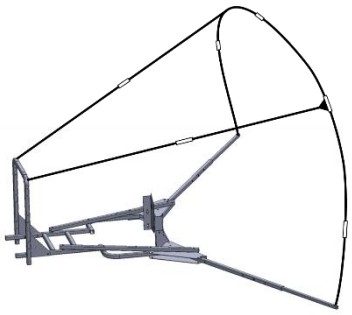
- Pull each metal toggle away from its ferrule at the ends of the long pole chain and rotate it so one end sticks out—this lets it slide through the holes on the Lateral Arms.
- To attach the Net Frame to the Arms, first match “RIGHT” and “LEFT” labeled ends of the Net Frame to the corresponding Lateral Arms—Hint: check the labels at the backs of the arms.
- Slide the “RIGHT” pole end through the hole on the Right Lateral Arm and grab the toggle on the back side, pull it out, and turn it sideways to lock it in place.



- Support the poles as you move to the other arm and repeat the insertion of the “LEFT” pole into the Left Lateral Arm.
- Now bend the long pole into a semicircle and insert the end poles into their ferrules, while checking proper ferrule engagement in the other poles in the circle.



- Unfold the two vertical poles (center poles in the tees), fit them into their ferrules, then insert their ends into the holes at the front corners of the Ball Ring.
- Flip the entire system upright in preparation for the Capture net Attachment, so the Ball Ring is on the ground and the semicircular long pole is horizontal.



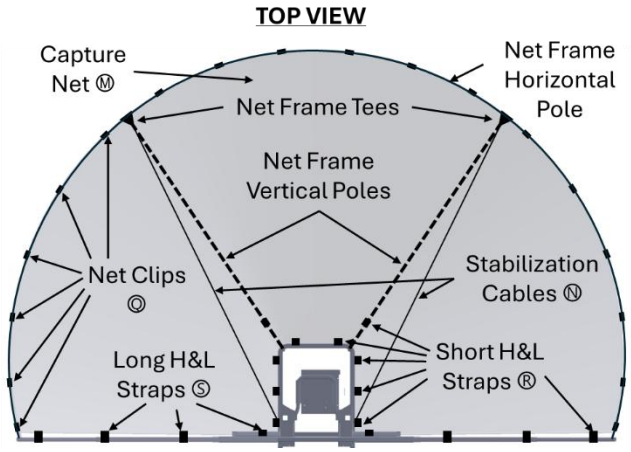
🏀 You should now have an outline of a circular cone rising from the Ball Ring—like a futuristic rebound funnel!

Step 4. 🕸 Capture Net Assembly

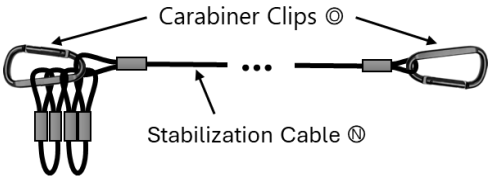
🪛 What you will need:

Ⓜ Capture Net	Ⓝ Stabilization Cable (2)
Ⓞ Net Clips (18)	Ⓞ Carabiner Clips (4)
Ⓡ Short Hook-and-Loop Straps (10)	Ⓟ Cable Anchors (already installed)
Ⓢ Long Hook-and-Loop Straps (6)	

- Unroll the Capture Net Ⓜ and find the top corners marked with red cord. These go near the intersection of the Net Frame top poles and Lateral Arms. Note the top edge of the net is the longest, continuous edge between the two red cords.
- Clip the narrow end of a Net Clip Ⓞ to the top net edge about 1" (25mm) from a red cord.
- Clip the wide end of the hook to the semicircular Net Frame pole about 2" (50mm) from the Right Lateral Arm connection.
- Continue placing 17 more hooks to connect the top net edge and semicircular pole, spacing them ~12" (30cm) apart—3 per pole section. Avoid placing hooks over metal ferrules or tees and try to keep all the hooks in the same orientation for faster pole clipping/unclipping.



- Use 2 Short Hook and Loop Straps Ⓡ to secure the net edges (on the other side of the red cords) to the metal Left and Right Lateral arms about 2 inches (50mm) from their outer ends.
- Use two Carabiner Clips Ⓞ (one on each end) to connect one Stabilization Cable Ⓝ from the left Net Frame tee triangle to the left Cable Anchor Ⓟ. Select the loop on the Stabilization Cable Ⓝ for the shortest length. Don't worry, you can bend the Net Frame poles a bit to do this. The other loops on the linked short cables may also be hooked to the Carabiner Clip Ⓞ so they are out of the way.



- Repeat on the right side. It's normal to have some tension on the cables to help form the proper Net Frame shape.
- Use 3 Long Hook and Loop Straps Ⓢ per side to secure net edges to the Rim Ring, Upper Frame, and Stiffening Bars. Adjust these so a ball cannot pass through. If needed, additional straps may be used.
- Use 8 short straps to anchor the lower net edge to the 8 Ball Ring outer loops.
- Use 2 short straps to stretch the net across the lower front (prevents ball pockets), encircling the vertical Net Frame poles about 5 inches (120mm) above the Ball Ring.
- To maintain a better funnel shape, don't overly tension the Capture Net.

Your Twister™ is starting to look like a pro-level training rig!

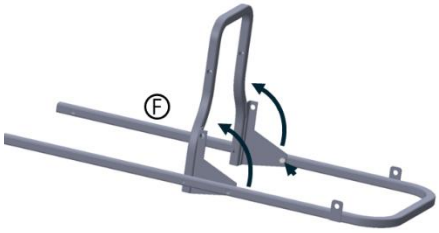
Step 5. Lower Frame Assembly

What you will need:

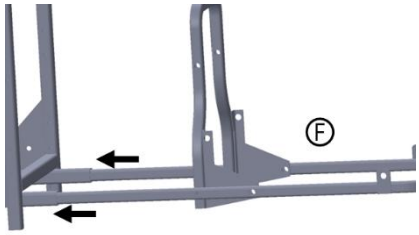
Ⓕ Lower Frame

- We'll attach the Swivel Unit and Ball Ramp after the system is secured to the backboard. So, for now, let's just attach the Lower Frame Ⓕ. Lie the system down so the Backboard Hooks are on the ground and the capture net extends upward.

- Rotate up the Swivel Mount Frame (hinged to the Lower Frame Ⓕ) and lock it in place by inserting the snap buttons on the Lower Frame through the holes at the ends of the triangular plates.



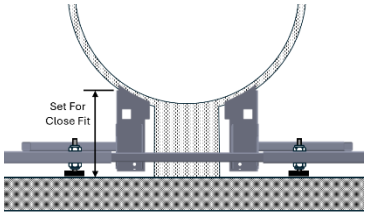
- Depress the snap buttons on the top of the long tubes of the Lower Frame and insert it into the open tubes at the bottom of the Upper Frame. Make sure the buttons snap into the holes in the Upper Frame.



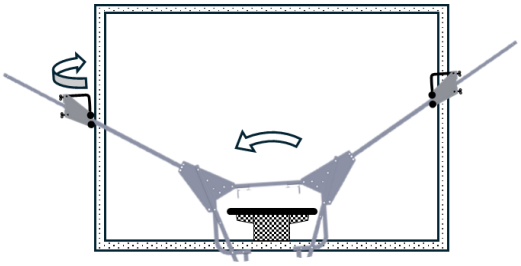
Now, let's get this puppy onto the hoop!

Step 6. Mounting the System to the Backboard

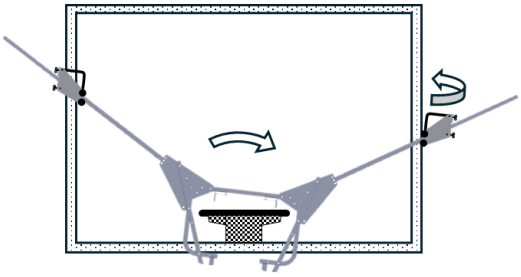
- Carefully lift up and rotate the system by the upper and lower frame and place the Rim Ring over the rim of the basketball goal. Temporarily rest the top of the Rim Ring on top of the rim near its center.
- **Stop and Check:** The distance between the plastic feet and Metal Rim Shelves (they will rest on the top of the circular rim) is factory adjusted; however, if needed, they may be adjusted to create a close fit for most any goal.



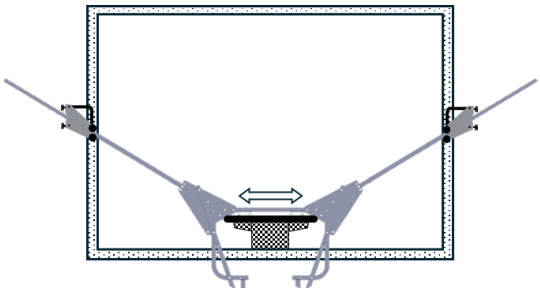
- Holding the lower frame, again lift the system up off the rim and back towards the backboard. Tilt the entire system left to allow the Left Backboard Hook to engage the rear side or the backboard edge.



- Now tip the system right while assuring that the Left Backboard Hook remains hooked around the back of the left backboard edge. Position the Right Backboard Hook off the right edge of the backboard, while pushing it backwards, so when the system is centered, it too will be hooked around the rear side of the blackboard.



- Now center the system and check that both Backboard Hooks have a small engagement around the rear of the backboard, then lower the system so the horizontal portion of the two Rim Shelves are resting on top of the rim and the vertical edges of the Rim Shelves pass behind the rim to keep the system from moving forward.



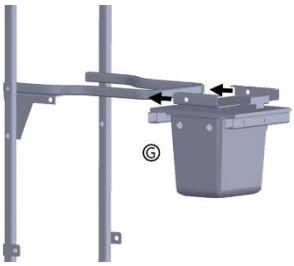
- **Stop and Check:** If the system is not sitting stably on top of the rim, an adjustment of Rim Shelves and/or the plastic feet may be needed. If both backboard hooks are not hooked around the back side of the backboard edges, then an adjustment of the hook locations along the lateral arms may also be needed.
- For a rounded, fan-shaped backboard, you will need to use trial-and-error or climb a ladder to adjust the location of the Backboard Hooks. Make sure they are symmetrically spaced from the center using the guides on the arms' backs.

Step 7. Swivel Unit and Ball Ramp Assembly

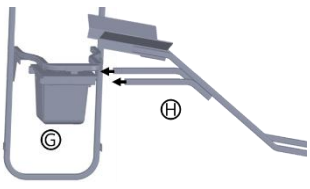
What you will need:

Ⓖ Swivel Unit	Ⓗ Ball Ramp

- Depress the two buttons on the Swivel Mount Frame (part of the Lower Frame) and slide the Swivel Unit Ⓖ over the Swivel Mount Frame until both buttons snap through the holes.



- Finally, connect the Ball Ramp Ⓗ to the Swivel Unit Ⓖ by depressing the two spring buttons on the Ball-Ramp legs and sliding them into the tubes on the Swivel Unit. Allow the spring buttons to snap into the holes.



✔ Wait, we done?

Step 8. Powering Up the Twister

What you will need:

① Wall Charger	② Charging Cord

- Before using the system, the Swivel Unit should be fully charged. This may be done while it is in place or by removing the Ramp and sliding the Swivel Unit from the Swivel Mount Frame. The Charging Cord ② attached to the Wall Charger ① may then be plugged into the connector on the back of the Swivel Unit. The indicator light on the front of the Swivel Unit will change from red to green when the charging is completed. This may take several hours, so I guess I should have told you that before Step 1–whoops.
- To start the system, press the power button at the back of the Swivel Unit for a full second. Both the touchscreen and power button should illuminate to indicate the system is on. To turn the system off, again press the power button at the back of the Swivel Unit for one second.

Go get 'em! – Your Twister™ is ready to go.

See the following instructions for further information:

- **Swish Hoop® Twister™ Folding Instructions** for instructions on how to fold the system for easier transport and storage
- **Swish Hoop® Twister™ Unfolding Instructions** for instructions on how to reassemble the system from the folded configuration as well as how to adjust the capture net height
- **Swish Hoop® Twister™ User Manual** for more information on the system's operation