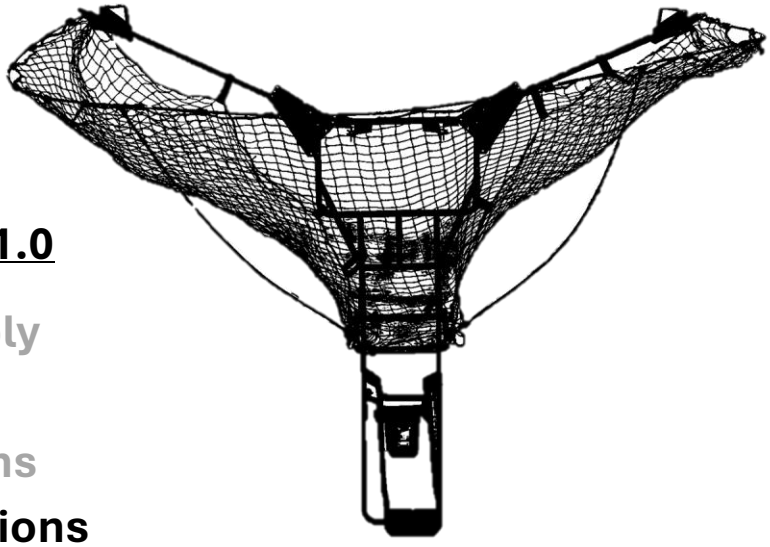
SWISH-HOOP
SHOTS THAT COUNT

Swish Hoop®

Twister™

Automated Rebounding Machine



Product Instructions v1.0

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

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

Unfolding Instructions

Swish Hoop® Twister™ – Automated Rebounding Machine*

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

These Unfolding Instructions are for Twister™ systems that have already been assembled (see ***First Time Assembly Instructions***), then folded (see ***Folding Instructions***). These instructions give a step-by-step procedure that will allow users to set up the Twister™ and install it onto a goal, ready for use. The instructions assume that the system has been properly folded in its stowed configuration as per the ***Folding Instructions***.

In addition to preparing the Twister™ for use, these instructions describe how to set up the Capture Net for different heights. For a standard 10-foot high rim, the available heights for the top edge of the Capture Net are 11.5, 12 and 12.5 feet. For rims that are set at lower heights, these are equivalent to 0.5, 1, or 1.5 feet above the rim.

Prior to starting the unfolding process, you should know the width and thickness of the backboard where the system will be installed. Common sizes are 36", 40", 44", 48", 54", 60", and 72" wide and 2–3 inches thick. Use a tape measure to determine what these parameters are if you are not sure. For a rounded, fan-shaped backboard, you might need a few tweaks during setup.

For instructions on how to integrate a *Swish Hoop Personal Scoreboard* that comes with the *Twister™ PRO* system with the Twister™, see the section entitled "Using the Swish Hoop® Personal Scoreboard with the Twister™", which may be found in the ***Twister™ User Manual***.

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.

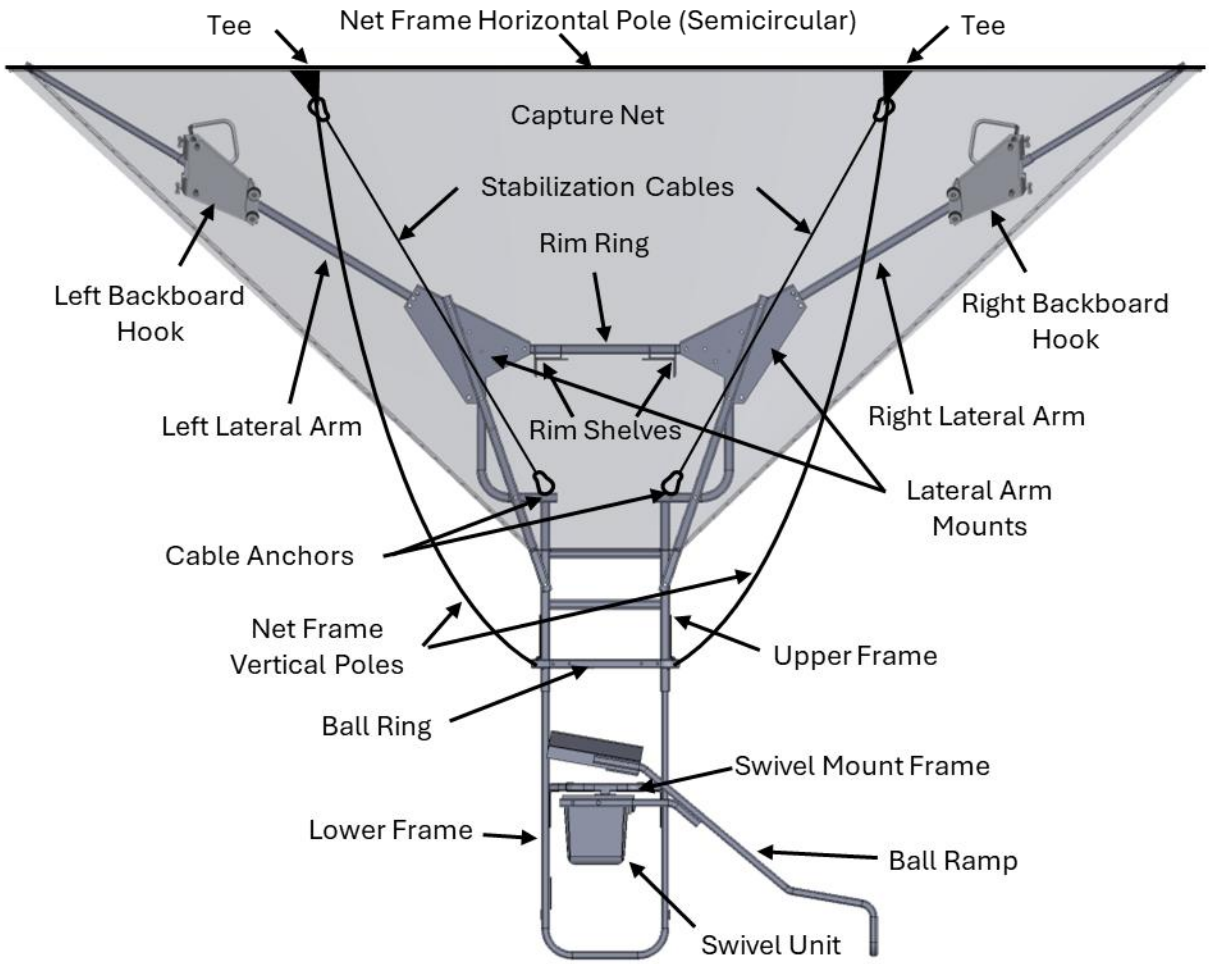
⚠ WARNING – TO AVOID INJURY, READ AND UNDERSTAND THE TWISTER™ USER MANUAL BEFORE OERATING THE SYSTEM.

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

* Patents pending: www.SwishHoop.com/patents

Component Terminology



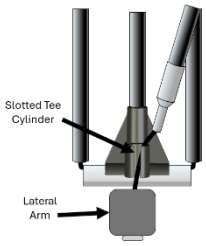
Unfolding Instructions

Step 1. Disassembling the Lower Frame and Ramp

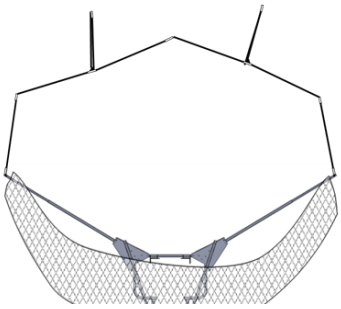
- Lay the folded system flat with the Backboard Hooks facing down and the Swivel Unit pointing up.
- Depress the two sets of spring buttons (4 total) securing the Lower Frame and slide it out from the square holes in the Rim Shelves.
- Depress the spring buttons on the Swivel Mount Frame (part of the Lower Frame) that is holding the Swivel Unit in place and remove and set aside the Swivel Unit.
- Depress the spring buttons on the Ball-Ramp legs and slide them out from the Rim Shelves. Then pull the Ball Ramp up and out from under the Ball Ring cross member and set is aside.
- Flip up the Ball Ring that is hinged to the Upper Frame so it's perpendicular to the frame. Press the two buttons on the back side of the Ring to lock it in place—watch your fingers!

Step 2. Extending the Lateral Arms

- With the system still lying flat, depress the spring buttons on the forward side of the Lateral Arms that are locking them at the retracted angle along the Upper Frame and rotate them outwards. Again, depress the spring buttons and snap them into one of the three holes for the desired height
    a. Hole Label "1" – for an 11.5-foot Capture Net height
    b. Hole Label "2" – for a 12-foot Capture Net height
    c. Hole Label "3" – for a 12.5-foot Capture Net height

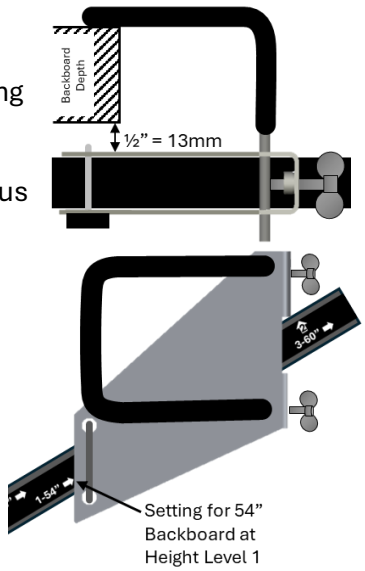


- Release the Net Frame Tees from the ends of the poles connected the Lateral Arm ends by pulling the end of the poles out from the tees along the slotted cylinders and allowing the bungee cords to exit the slots.
- Configure the Net Frame poles (whose two end poles should be attached to the Lateral Arm ends via bungee cords) on the ground, above the tops of the Lateral Arms by assembling the Tees with the two poles pairs that are adjacent to the Tees, but do not assemble the other poles into their ferrules. The poles and Lateral Arms should be in the shape of an irregular hexagon, which gives freedom for Lateral Arm positioning.



- Depress the spring buttons on the top side of the telescoping portions of the Right and Left Lateral Arms and extend them so their spring buttons enter the holes labeled (on the back) with the same number previously selected (1, 2, or 3). NOTE: The hole numbering is indicated by the numbers inside the upward pointing arrows on the rear of the Lateral Arms.

Step 3. Setting the Backboard Hooks



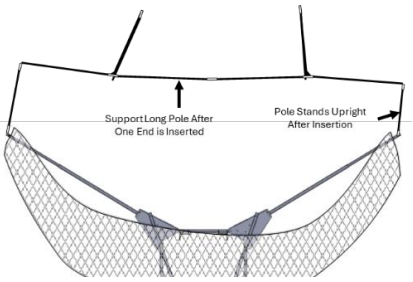
Skip this step if the Twister™ is being installed on the same backboard and using the same Capture Net height from the previous installation.

- If the Backboard Hook depth needs to be readjusted from the previous installation:
    a. Loosen the wing screws on each Backboard Hook.
    b. Adjust the spacing between the Hook and Mount to be about ½" (13mm) wider than your backboard thickness.
- If the backboard width or the Capture Net height is different from the previous installation:
    a. Loosen the front black-plastic knobs and slide the Backboard Hooks along the Lateral Arms to align their edge with the arrow on the arm backs labeled with your measured backboard width and the previously chosen Capture Net

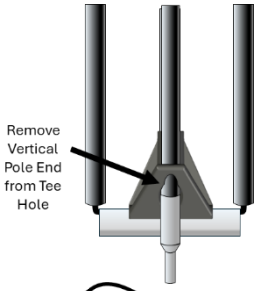
height (1, 2, or 3). For example, a 54-inch-wide backboard with net height at 11.5 feet (height 1) will need to be set to **1-54”➧** .

b. Tighten the front knobs to lock the Backboard Hooks in place.

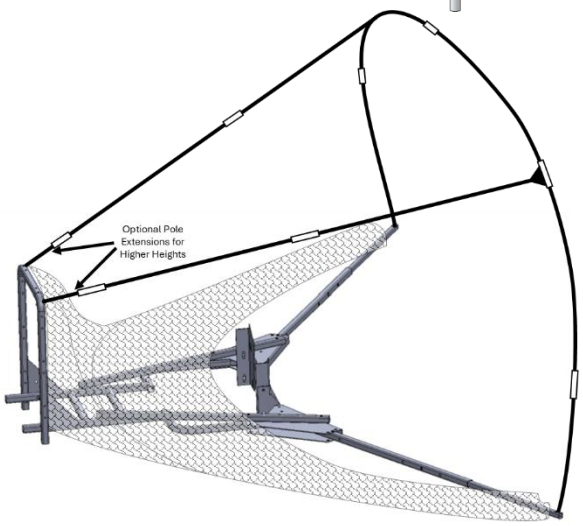
Step 4. Assembling the Net Frame



- Connect the two center poles of the Net Frame to one another by inserting them into the ferrule between them, while maintaining the connection of the other poles in the tees.
- Lift the right-most pole (labeled “RIGHT”) to a nearly vertical position and slide its end through the hole on the Right Lateral Arm. Assure the bungee connection is maintained during insertion.
- Support the poles as you move to the other arm and repeat the insertion of the “LEFT” pole into the Left Lateral Arm.
- Connect the right and left end poles to their neighbors by inserting them into their joining ferrules while bending the entire long-pole assembly into a semicircle. Check for complete ferrule engagement in the other poles along the circle.
- Release the end of the folded vertical poles from the holes in the tees, unfold them and connect each pair using their joining ferrules.



- Fit the Pole Extensions to the end of the vertical poles as follows:
  - For Capture Net height 1 – Use no pole extensions
  - For Capture Net height 2 – Use a single pole extension on each pole
  - For Capture Net height 3 – Use two extensions on each pole
- 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 Net-Frame pole is horizontal.

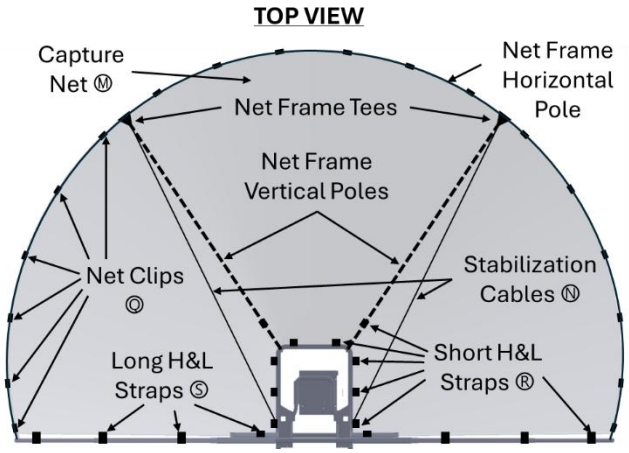


Step 5. Assembling the Capture Net

- Unroll the Capture Net and find the top edge, which should be fitted with Net Clips.
- If the Twister™ is being installed with a different Capture Net height than the previous installation, the 8 hook-and-loop straps that connect the Capture Net to the Ball Ring may

need to be changed to longer straps or adjusted. It may also be necessary to adjust the straps that connect the Capture Net side edges to the Upper Frame of the system. If the net height is being raised from its previous setting, it is best to disconnect these straps in this step.

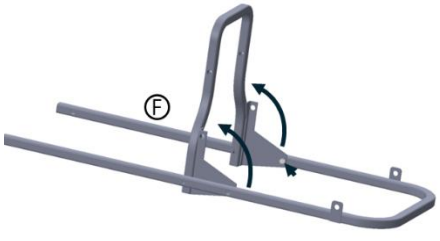
- Clip the 18 Net Clips to the semicircular pole. Avoid clipping over metal ferrules and tees.
- Attach the Stabilization Cables between the Cable Anchors on the Upper Frame and the Net Frame Tees as follows:
    - For Capture Net height 1 – Use the shortest cable length
    - For Capture Net height 2 – Use the medium cable length
    - For Capture Net height 3 – Use the longest cable length



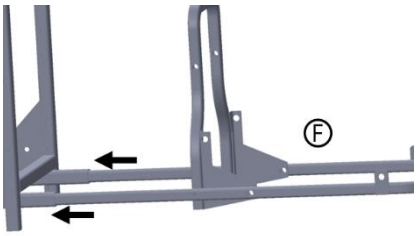
- Use 8 hook-and-loop straps to anchor the lower net edge to the 8 Ball Ring outer loops as follows:
    - For Capture Net height 1 – Use the short hook-and-loop straps
    - For Capture Net height 2 – Use the long hook-and-loop straps with significant overlap on one another
    - For Capture Net height 3 – Use the long hook-and-loop straps with little overlap on one another
- For Capture Net height 1, 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 (maintain a bit of slack in the hook and loop straps).

Step 6. Assembling the Lower Frame

- The Swivel Unit and Ball Ramp are attached later, after the system is secured to the backboard.
- 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 spring buttons on the Lower Frame through the holes at the ends of the triangular plates.

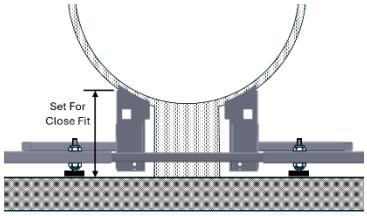


- Depress the spring buttons on the top of the long tubes of the Lower Frame and insert them into the open tubes at the bottom of the Upper Frame. Make sure the buttons snap into the holes in the Upper Frame.

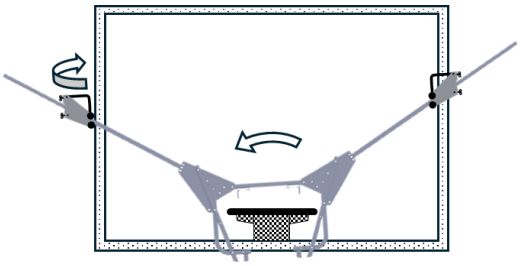


Step 7. Mounting the System to the Backboard

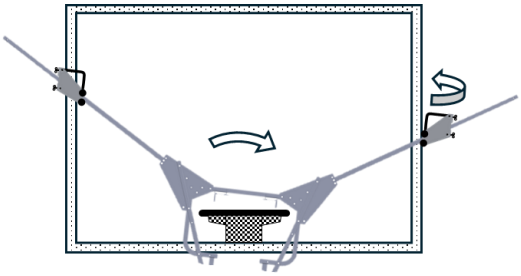
- Carefully lift up and rotate the system by the upper and lower frame and place the Rim Ring over the rim of the basketball goal. Temporarily rest the top of the Rim Ring on top of the rim near its center.
- **Stop and Check:** The distance between the rear plastic feet and front Rim Shelves (they will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



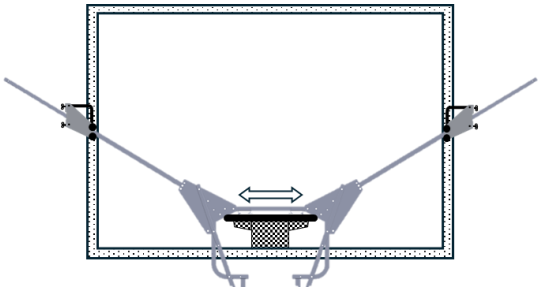
- Holding the lower frame, again lift the system up off the rim and back towards the backboard. Tilt the entire system left to allow the Left Backboard Hook to engage the rear side of the backboard edge.



- 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.

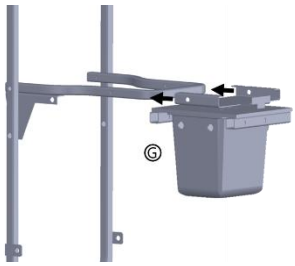


- Now center the system and check that both Backboard Hooks have a small engagement around the rear of the backboard, then lower the system so the horizontal portion of the two Rim Shelves are resting on top of the rim and the vertical edges of the Rim Shelves pass behind the rim to keep the system from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

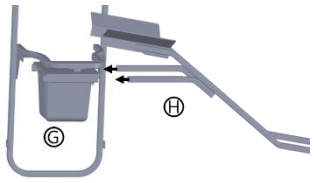


- **Stop and Check:** If the system is not sitting stably on top of the rim, an adjustment of Rim Shelves and/or the plastic feet may be needed. If both backboard hooks are not hooked around the back side of the backboard edges, then an adjustment of the Backboard Hook locations along the Lateral Arms 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 arrow guides on the arms' backs.

Step 8. Assembling the Swivel Unit and 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 larger holes. The smaller holes should be beyond the legs. They are for the Personal Scoreboard mounting bracket (optional).

Step 9. Powering Up the Twister

- Before using the system, the Swivel Unit should be fully charged. This may be done while it is in place or at a remote location by removing the Ramp and sliding the Swivel Unit from the Swivel Mount Frame. The Charging Cord attached to the Wall Charger 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 charging is completed. This may take several hours.
- 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.

See the **Swish Hoop® Twister™ User Manual** for information on the system's operation.