

Installation Instructions
70' nCage Collegiate Outdoor Batting
Cage Kit

Thank you for purchasing the 70' nCage Collegiate Model Outdoor Batting Cage Kit. This model allows for a variety of cage sizes. If you did not order custom pole lengths, please DO NOT cut the poles until you have read the instructions and identified your desired cage footprint.

Tools & Equipment

- Safety glasses
- Cable cutters
- 1/2" & 3/4" sockets & ratchet
- Shovel, Post-Hole digger, or Auger
- Pole Level
- Plumb-bob or string
- Tape measure / laser
- Bucket
- Wheel-barrel
- Concrete / Water
- Extension Ladders
- Saw with Metal Blade
- Screwdriver (to adjust turnbuckles)
- Drill with Mason and Metal Bits

Standard Parts List

- (4) 3.5" Schedule-40 Upright Poles @ 20'
- (4) Upright Top Caps
- (2) 3.5" Schedule-40 Cross Member Poles @ 16'
- (3) 1/4" Cable @ 75'L
- (3) 9" x 5/8" Turnbuckles
- (105) 5/16" Carabiner Snaps
- (6) Adjustable Collar Clamps
- (14) 1/4" Cable clamps (2 extra)

Bridge Suspension Kit Parts List

- (2) 1/8" Cable @ 85'L
- (2) 6" x 1/2" Turnbuckles
- (4) Collar Clamps

- (8) 3/16" Cable Clamps

Optional Base Anchor Kit Parts List

- (4) Collar Clamps
- (2) 6" x 1/2" Turnbuckles
- (4) 3" x 3/8" Turnbuckles
- (4) 1/8" Cable @ 20'
- (2) 1/8" Cable @ 77'
- (24) 3/16" Cable Clamps
- (100) 9" Wire Ties (Secures Net to Cables)

See Base Anchor Kit Diagram (pg. 4)

Optional Kicker Stabilizer System Parts List

- (4) Steel Tubes 2-3/8" OD
- (4) Collar Clamps
- (4) Base Flange Pads
- (8) End Caps
- Concrete Lags
- Metal Screws (Secure caps to tube)

See Sample Assembly Photo on Pg 5

- Please read all instructions before assembling your nCage.

Cage Layout and Digging the Ground Holes (pg 2)

Cross Bar Assembly (pg 2-3)

Installing the Cable Lines (pg 3)

Attaching Net to the Cables (pg 4)

Base Anchor Kit Diagram & Side View (pg 4)

Photographs (pg 5)

Cage Layout and Digging the Ground Holes

- 1) Layout position of frame uprights using wooden stakes, planning for 4 ground holes. Spacing is dictated by size of net. Our recommendation is to lay out the cage 5 ft longer than length of net to reduce risk of ball ricochet. Standard Width spacing of holes is 16' on-center.

If you ordered additional frame interior rib-sections, be sure to evenly space them along the length of the net.

Recommended Layout Measurements for 70'L Cage:

- Length spacing = 75'
- Width spacing = 16'
- Depth = 3'

- 2) Begin to bore/dig holes.

Recommended Minimum Hole Size: 3 ft Deep x 30-36" diameter for normal soil, 36-42" loose soil, or 42-48" sandy soil.

**Based on your regions ground "freeze line" you may need to increase your concrete depth.*

- 3) Insert poles - run lumber to level and shore up at about 6-8' above ground.

Upright pole should extend 3' above net height for Bridge Suspension Kit.

Tips:

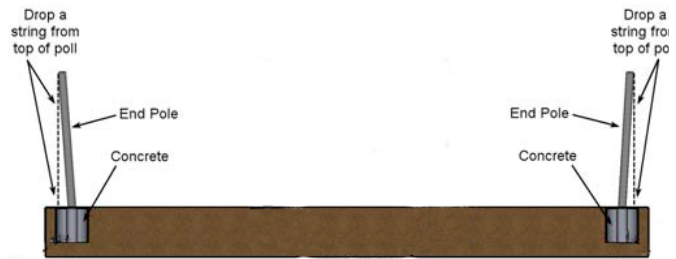
- Frame poles can be cut on-site, or inserted deeper into the ground to accommodate a shorter net.
- After holes bored, insert 2x12, plywood, or round patio stone into hole to prevent poles from sinking during concrete cure time.

Tips:

- Begin on one end at a time.
- Pour concrete slowly to prevent moving poles.
- Tilt poles off-plumb outward about 1" -- this counters the cable tension to compensate poles

into vertical position (not required if using kicker or auger stabilization systems).

- For much faster concrete cure time, add bag of calcium to concrete mix - most trucks carry bags of calcium for approx \$25



Use C-clamp to hold in place & run kickers to the ground.

Cross Bar Assembly

- 4) The crossbar should be installed AFTER the upright poles have been concreted & allowed to fully cure. There are 2 options for assembly of the crossbars.

Option 1: Assembly on the ground.

- 1) Remove the backside of the 4 corner brackets by removing the bolts.
- 2) Attach them to the uprights at ground level, sleeve side facing each other at an angle.
- 3) Connect the crossbar between the bracket sleeves.
- 4) Raise the crossbar to your desire height.
- 5) Secure a collar-clamp under the bracket to keep it in place.
- 6) Re-attach the backside corner bracket bolts to secure. Supporting collars can be removed or left in place for extra support.

Option 2: Drop-in from above.

- 1) Fully assemble the crossbar to the corner brackets while on the ground.
- 2) With proper machinery, raise the crossbar in the air above the vertical uprights.
- 3) Insert the crossbar brackets around the vertical poles.
- 4) Lower to desired height.
- 5) Tighten bolts.

Once you've installed your cross members, identify the 6 cable line locations to install collar clamps. The 2 outside lines are installed at the same width of your net, and the center line bisects the outside lines at the mid-point.

Tips:

- Allow for 8-12" of net sag on ground (on standard 12'H net). Allow 4-6" of net sag with Base Anchor Kit.
- A simple way to increase your pole and net height is to simply pour your concrete footers at a deeper depth, while inserting less of the poles into the ground. e.g. If your poles are 15', but you wish to have your cable lines at 13'H, continue digging the same depth of footer, but simply pour your concrete to a higher level; allow it to set, then insert your poles. Please note we still recommend a minimum of 3' inserted into the ground, but you may adjust the height at your own risk based on your soil conditions & freeze line.
- Adjustable elbow joints allow cross-members to raise or lower as needed.
- The corner brackets will add 1/2" of length to your crossbars. e.g. If you want to achieve exactly a 16'W footprint on-center, you will need to cut down the cross-bars 1/2" each. Or consider expanding your on-center hole locations to approximately 16' 1/2" - 16' 1".

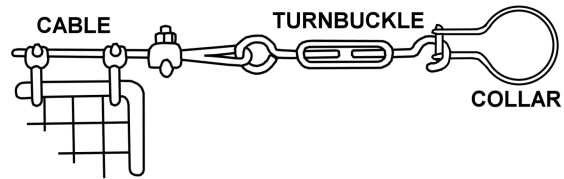
Note: If you ordered additional "interior rib sections", simply repeat steps 1-4. Evenly space your interior sections between the end sections. e.g. If you have a total of 4 sections, and your end sections are spaced at 75', the sections would be 25' apart.

- 5) Wrap collar clamp bands around uprights and cross members. Collar clamp heads should be pointed towards the opposite upright section.

Note: If using "interior frame rib sections" between your end sections, the collar clamps are installed vertically, so the "eye" faces down, allowing the cable to pass through, resting inside the eye.

Installing the Cable Lines

Note: You should provide for extra cable length when setting up initially. You can always cut off excess cable if it is not needed.



- 6) Un-spool and run cables the length of your cage.
- 7) Run one end of your cable through an extended turnbuckle and secure cable using 2 cable clamps. Tape the end of the cable to prevent fraying.
- 8) Bolt turnbuckle onto collar clamp.
- 9) At opposite end install turnbuckle to collar clamp before attaching cable.

Tip: Fully open/extend the turnbuckle before installing.

- 10) Run cable through turnbuckle (also run through middle collar clamps where applicable), pulling as much slack out of the cable as possible, and secure with 2 cable clamps. Be sure to tape off the end of the cable to prevent fraying/injury.

11) Tighten the turnbuckles on both sides to remove the remaining slack from the cable.

Attaching Net to the Cables

12) The cables should now be in place and tightened to your frame sections.

13) Stretch out and position the net on the ground underneath the cables.

Tip: Attach snaps to border rope, including center rib-line(s), about every 2', while net is still on the ground. Twisting the rope helps the snap slide in. Snaps are designed to be snug to reduce friction & wear.

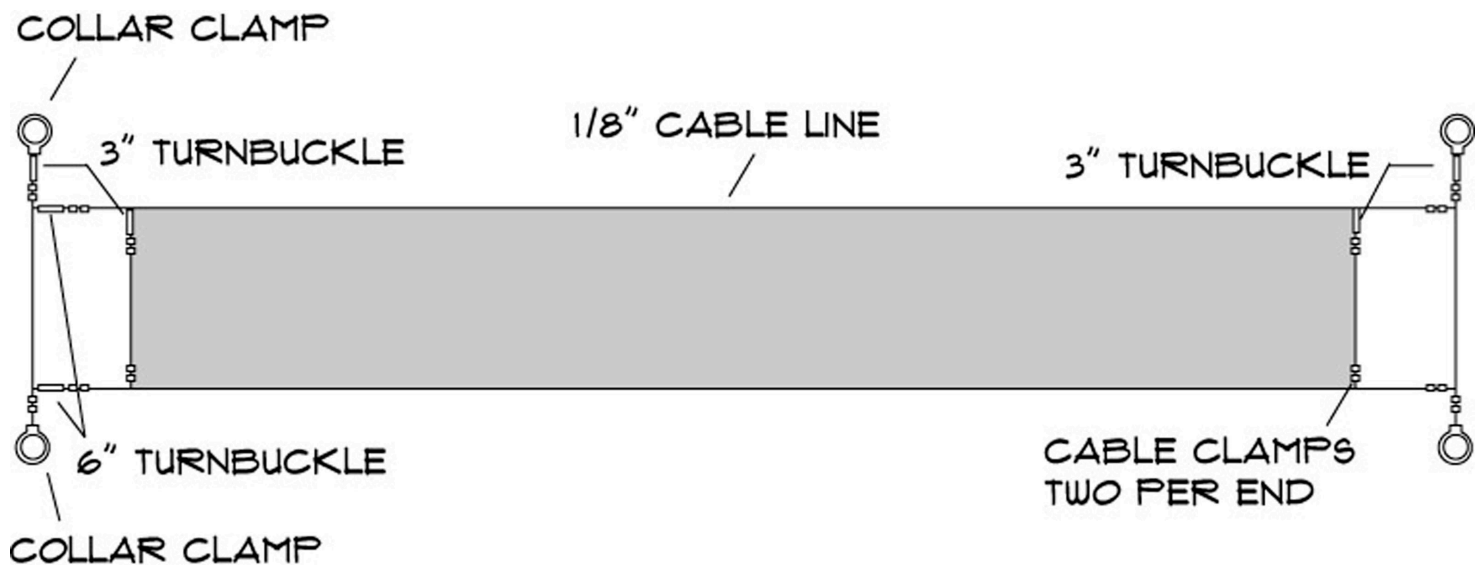
14) Starting on an end, on one of the outside lines (while on ladder or platform), have partner hand net to you. Attach the pre-loaded snaps around cable. Repeat this until one side is completed. Repeat for the middle and opposite side cables.

Tip: You can limit the number of trips up and down the ladder by bunching as much of the net on one end of the cable as possible – which will eventually “curtain” open to full length. Ladder should only need to be moved a few times for each line.

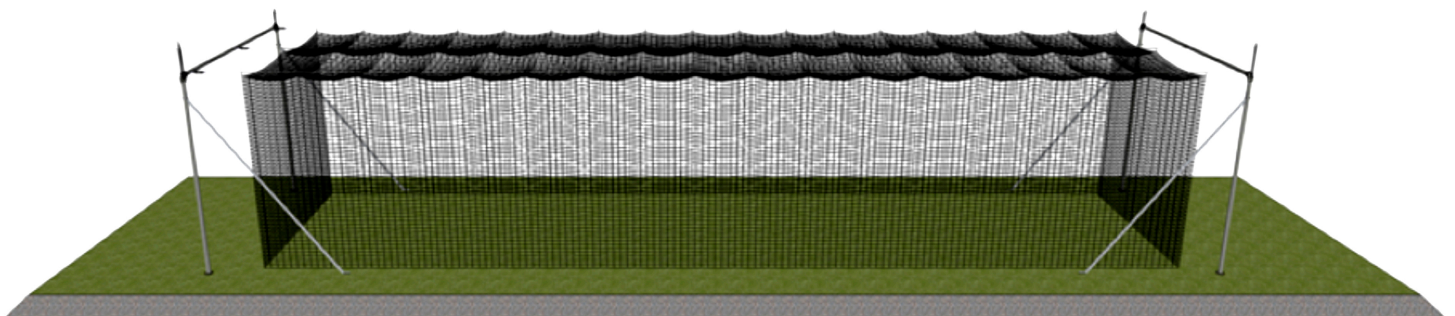
Complete!

Swing away and enjoy!

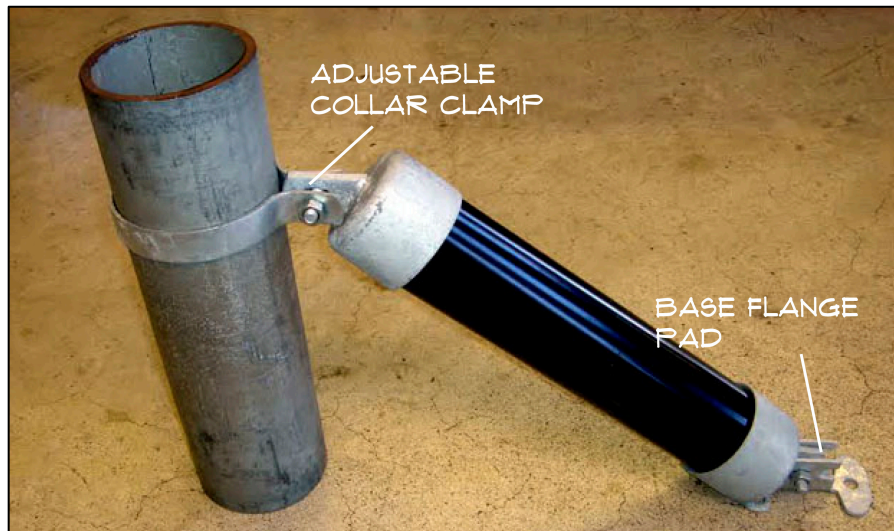
Top View of Base Anchor Kit Diagram



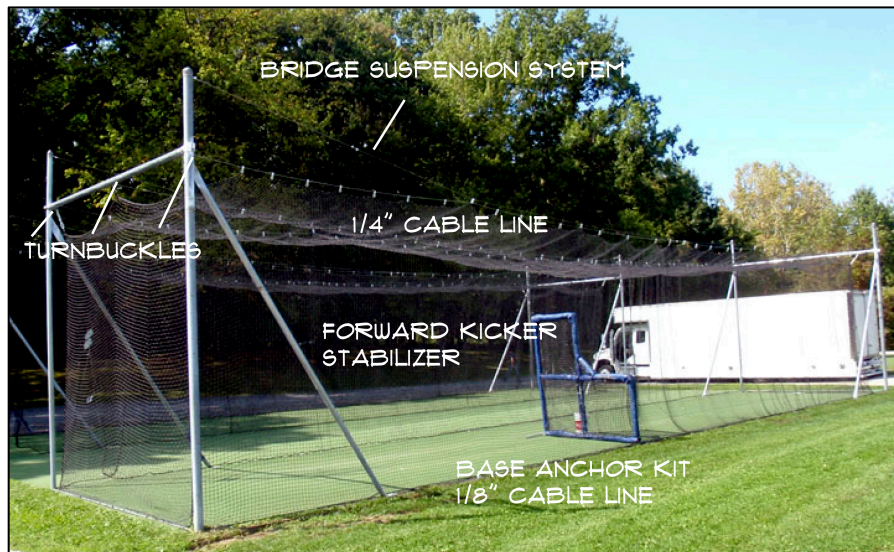
nCage side-view with Forward Kicker Stabilization System



Forward Kicker Assembly



Completed nCage



Installation instructions are provided as a guide only, and are not absolute, nor are they guarantees. Equipment should be installed by qualified & experienced personnel only. We cannot guarantee the functionality of our equipment when installation service is provided by a firm other than Practice Sports, Inc. Please use all safety precautions when installing equipment. Certain environments may require additional materials to ensure maximum safety - please contact us to purchase additional materials, or source from a local hardware store. Regular safety inspections are strongly advised. Practice Sports, Inc. is not liable for any injury or damage sustained as a result of the use of our equipment.