

## Practice Sports, Inc.

### Installation Instructions for: Pro Model Double Lane with Optional Winch System



#### Tools & Equipment Typically needed:

- 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
- Aerial boom lift, crane, & skid steer make job much easier
- 3-5 adult helpers

1) Bore holes spaced at approximately 5 ft longer & 6 inches wider than your net size. i.e. for 70'L x 28'W net, space poles at 75' x 28'6" on-center.

Recommended hole size: 5' Deep x 30-36" diameter for normal soil, 36-42" loose soil, or 42-48" sandy soil.

**Tip:** after holes bored, insert 2x12, plywood, or 12" round patio stone into hole to prevent poles from sinking during concrete cure time.

2) Insert poles - run lumber to level & shore up at about 6-8' above ground. Use C-clamp to hold in place & run kickers to the ground.

**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).

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

3) Upon curing, identify cable line locations to install anchor/termination points at approximately 4" lower than your net height (if using bottom anchor system), i.e. 11'8" for 12'H net, or 12" lower than net height if not using bottom anchor system.

**Tip:** All anchor points are adjustable height - adjust up or down as needed to achieve optimal results for your environment

**Note:** There must be a minimum of 2' between top linear lines & top bridge-lines to be effective.

**If NOT using Winch System, skip to Step 15.**

4) Install Winch at approximately 4'6" from ground, on the INSIDE of either center pole.

5) Install Pulleys at identified points (from step 3) - refer to diagram below.

6) Do NOT load cable onto winch at this time. End of cable will need to be anchored on winch end (temporary). String cable through pulleys, beginning with pulley above winch.

7) Run cable through all consecutive pulleys EXCEPT the final curtain cable line - do not run this cable to termination end at this time.

7b) Terminate curtain cable line into base of center pole - attach to bracket (temporary). Maintain loose tension in cable line.

8) **OPTIONAL:** Using ladder or a lift, run center linear lines, which bisect each side of the curtain line. These will terminate into the end horizontal cables.

Use turn-buckle on one end only, and use cable-clamp to "dead-end" opposite end. Refer to Overview Diagram below. (Note these lines will reduce sag in ceiling, but will need to be dis-engaged prior to operating winch)

9) With snaps pre-loaded onto rope of netting (spaced every 18-24") begin clipping ceiling of net to the 5 top linear cable lines. Begin on the ends & outside lines.

10) Remove curtain cable line (from step 7b) and drag to opposite side, terminating into bracket (cable dead-end).

11) Clip curtain net to center linear line.

12) Load remaining cable onto winch.

13) Connect drill-adapter to winch. Engage winch with standard house-hold drill to tighten cable & draw-up net.

14) Install bottom linear cable lines (if purchased with kit).

a) Install bottom u-bolt anchor plates

b) Install bottom turn-buckles & string cable

c) Use included wire-ties to clip base of net to cable lines every 6"-8" or as needed (unless hog-rings ordered)

***Tip:** Bottom end cross-cable may need to anchor to bottom linear cables (instead of anchoring into poles), if poles are too far apart for net to reach for clipping to cable.*

If using Winch System, your cage is complete!

#### **Non-Winch System steps:**

15) Install Adjustable U-Bolts from locations identified in Step 3. The "double-anchor" termination plates are used for the center line, to support the ceiling & the divider curtain just underneath.

**Orientation Tip:** All "termination anchor points" should face each other

15b) Install top anchors for "bridge suspension lines" - these are installed at top of poles - must be minimum of 2' higher than top linear lines.

16) Install all turn-buckles on one end - bolt to anchor points on Plates from step 15.

***Tip:** Place turn-buckles at opposite storage end - these consume more space and won't allow net to collapse as compactly.*

17) Loop cable through turn-buckles & use cable-clamps to secure - this is the "live-end". Run cable to opposite & clamp to "dead-end".

**NOTE:** Do not install the center curtain line at this time. You should currently have 3 linear cables run.

17b) Lightly tighten turn-buckles - allow slack to remain.

18) Install 6" turn-buckles & run 1/8" horizontal cables on each end (4 lines total). This creates termination points for the center lines where there is no pole to anchor into.

18b) Bolt remaining 9" turn-buckles to the horizontal cables on one end (2 total). Run the 2 cables from these turn-buckles to the opposite end, securing both ends with cable clamps.

**NOTE:** You should currently have 5 lines run. Do not install the center curtain line at this time.

19) Load snaps around rope on top of net every 18-24".

***Tip:** Load snaps while weight of net is on ground*

20) Clip ceiling of net to the 5 top linear cable lines. Begin on the ends & outside lines.

21) Now run the "center curtain" cable line just under the center ceiling line. Clamp to dead-end & loosely tighten turn-buckle.

22) Clip curtain net to center line.

23) Tighten all turn-buckles to preferred level of tension. Do NOT over-tighten.

**Tip:** Use screw-driver on "live-end" to hold in place, while twisting body with wrench or screwdriver

24) Install the 3 "bridge cables" at the top of each pole. Attach turn-buckle, and clamp cable to "live-end".

25) Run bridge cable across and down to top of net, securing (with cable clamps) to linear cables at approximately 10' from center of cage in both directions. Refer to 'side-view' diagram below. Attach opposite bridge cable line to "dead-end" to secure.

26) Increase tension in bridge cable lines using turn-buckles. This will help peak your cable lines in the middle on the center & outside lines where the weight is focused.

27) Install bottom linear cable lines (if purchased with kit).

- a) Install bottom u-bolt anchor plates
- b) Install bottom turn-buckles & run cables
- c) Use included wire-ties to clip base of net to cable lines every 6"-8" or as needed (unless hog-rings ordered)

**Tip:** Bottom end cross-cable may need to anchor to bottom linear cables (instead of anchoring into poles), if poles are too far apart for net to reach for clipping to cable.

**Cage complete!**

### General Tips:

*-The heavy-duty wire ties are for the bottom corners.*

*-Cut & tape off all cable ends to prevent fraying or injury.*

*-Fill poles with concrete to increase stability. Pour concrete into top after they have been set. Use lift with buckets or skid steer to make this easier.*

*-When tightening turn-buckles, use screw-driver on "live-end" to hold in place, while twisting body with wrench or screwdriver*

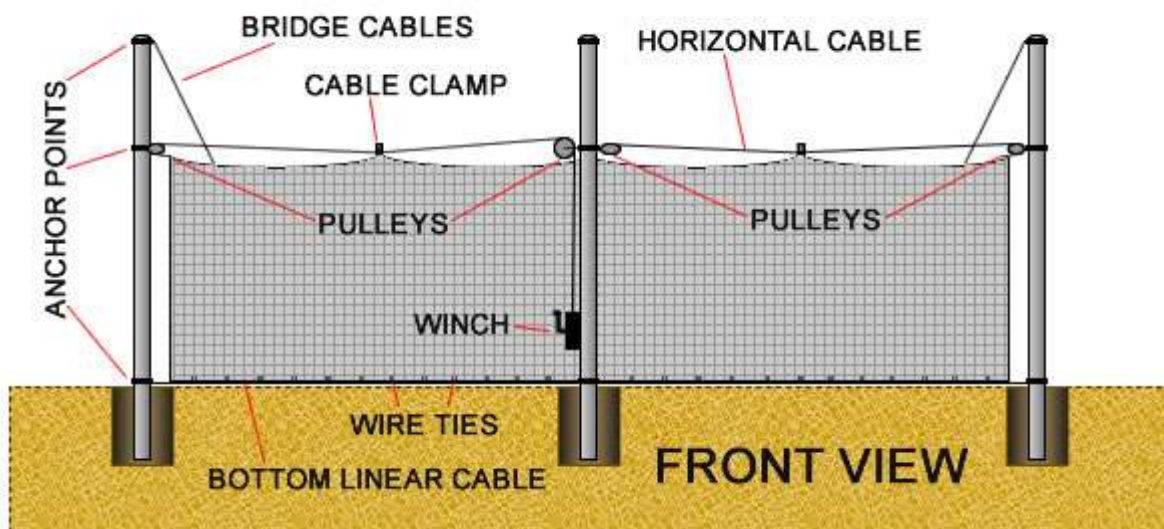
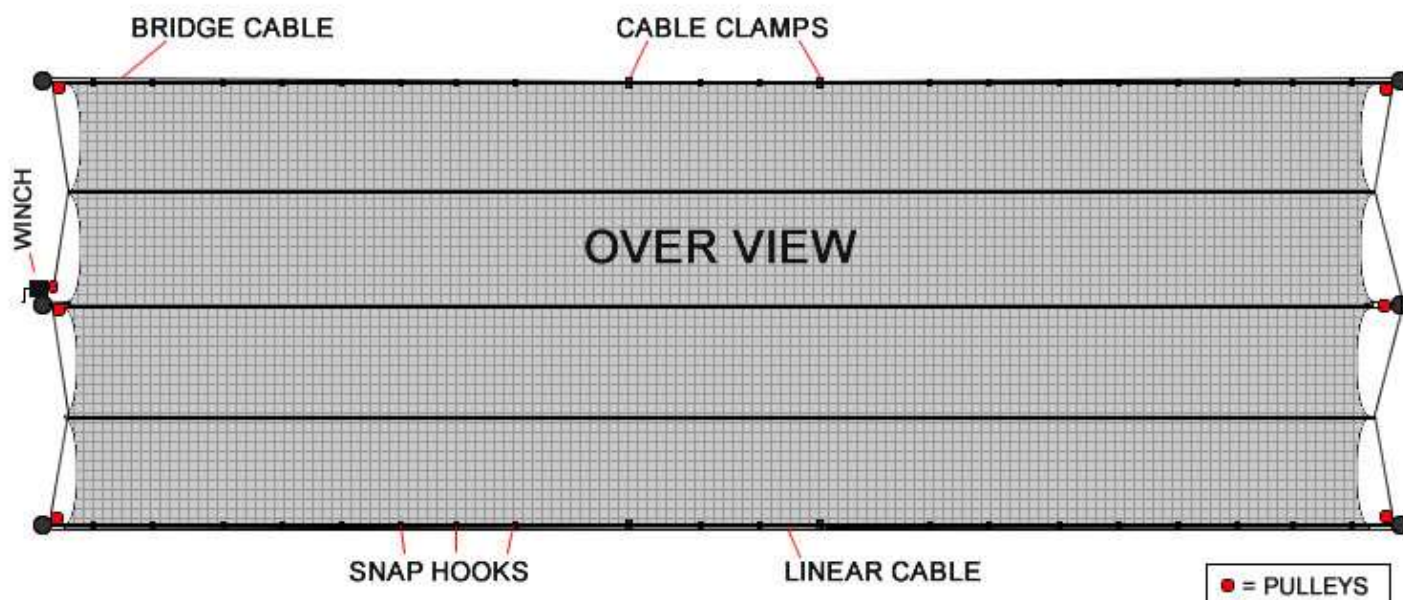
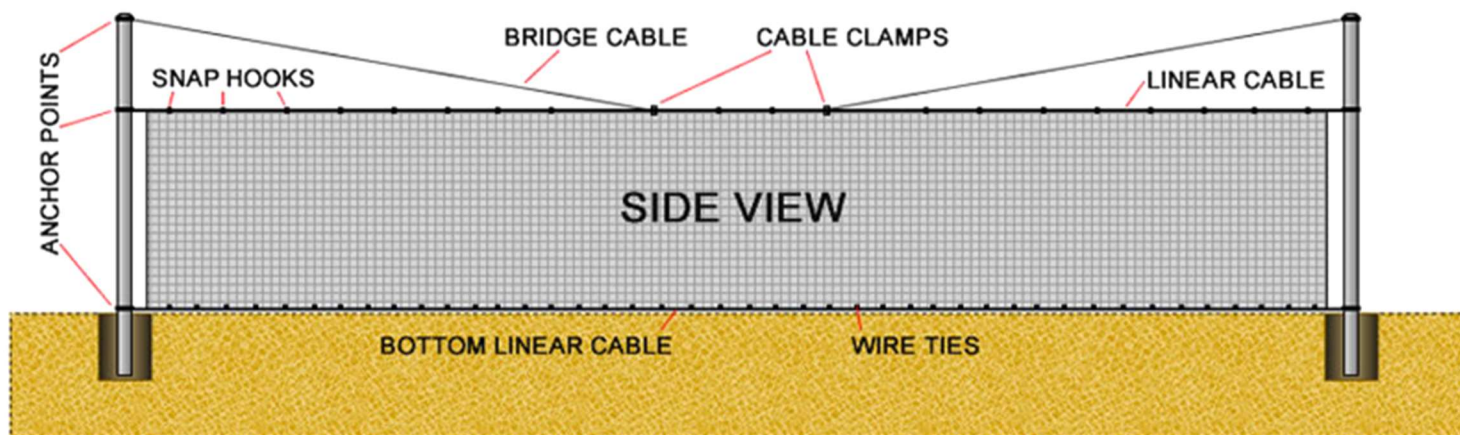
*-If using very heavy net or long span is causing center line to sag too much, run additional diagonal bridge line across the middle to draw up the center cable*

*-All anchor tabs on brackets should face each other / opposing pole*

*-Attaching snaps to net while on ground makes attaching net to cables easier*

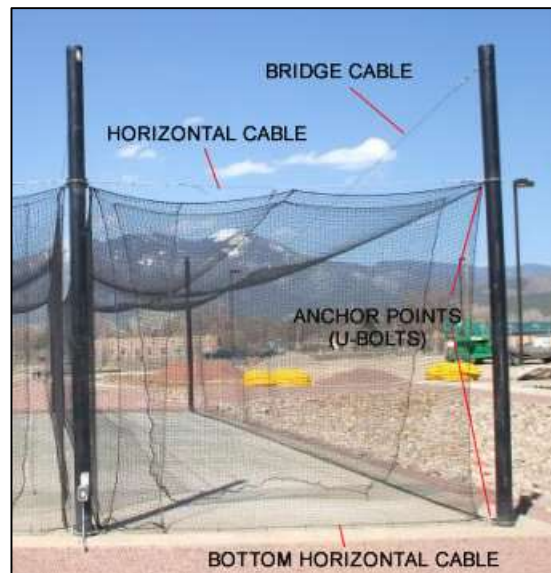
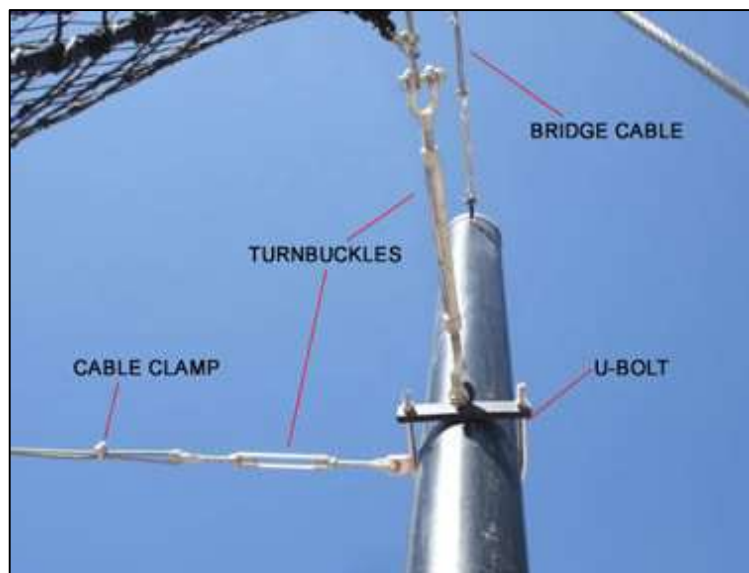
*-Use 2 cable-clamps on EACH end of every cable -- 4 clamps per line.*

*-You may wish to affix net to poles using rope to help keep in place & expanded, on the ends.*





NOTE: These pictures do not show the winch and pulley system.



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.