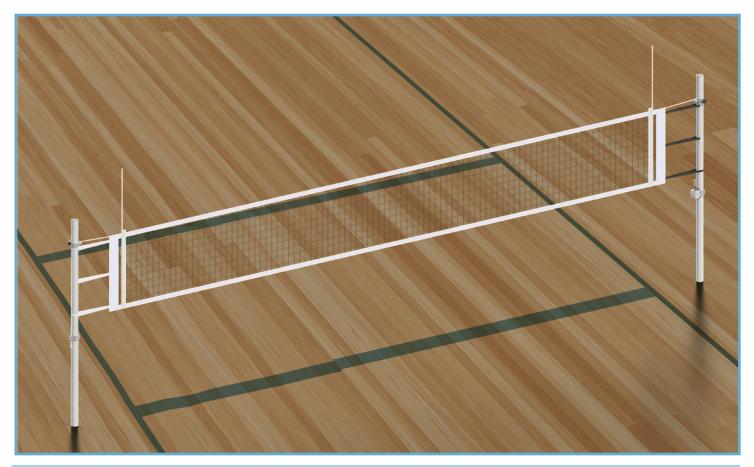
Combination Volleyball System

Highly maneuverable, volleyball system with infinite net height adjustment





Please Note: These instructions are meant as a guide only.

They do not imply any responsibility on the part of Draper, Inc. for improper installation or faulty workman ship at the jobsite.



- 1. Over-tightening top cable can damage equipment and possibly cause injury.
- 2. Center of net will sag slightly. This is natural. Do not try to compensate by over-tightening top cable. (See "Net Height" information below.)
- 3. Make sure proper parts and accessories have been shipped. Do not attempt to install any accessories that are not intended for your Volleyball System.
- 4. Do not attempt to operate the winch by using an electric drill; hand crank only.
- Please read the following installation guidelines thoroughly and follow them carefully. Failure to do so may cause product to fall or otherwise fail, and invalidates warranty.

Please Note: Custom products/installations may not be reflected by this document. Call Draper, Inc. if you have questions about your installation.

If you have any difficulties installing or servicing your CVS Volleyball System, call your dealer or Draper, Inc.



ADJUSTMENT COLLAR

PN: C132.050

Combination Volleyball System

Section 1 - Assembling Vertical Standards

- Attach POWER WINCH ASSEMBLY to one of the 3½" (89mm) O.D. upright tubes and temporarily tighten near the center of the standard with hex wrench.
- 2. Attach CABLE ANCHOR COLLAR onto the other 3½" (89mm) O.D. upright tube and temporarily tighten near the center of the standard with hex wrench.
- Install one SLIDING ADJUSTMENT COLLAR on each upright tube. Make sure collar is installed so guide pin is located on the narrow vertical channel.
- 4. Attach ENDCAPS to both ends of standards.
- 5. Install vertical standards in floor sleeves (see VB_FloorSleeves_Inst for details).
- 6. Locate the center of the WINCH ASSEMBLY 47" (1.19M) up from the playing surface and tighten screws with hex wrench.
- 7. Locate the center of the CABLE ANCHOR COLLAR 47" (1.19M) up from the playing surface and tighten screws with hex wrench.

NOTE: It will be necessary to move winch and cable anchor collar when using CVS volleyball system for nets heights other than Mens/Womens Volleyball.

8. For initial set up, you will start by setting at MENS height. Position the center of the SLIDING ADJUSTMENT COLLAR approximately 1" (25mm) above the desired net height or 8' 0-5/8" (2.45M) above the playing surface. Make sure guide pin is in the narrow vertical channel and tighten hand knob to secure in place. Hand knob should tighten so that it is fully inside wider vertical channel.

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Section 2 - Attaching Net to Standards

- 1. Unroll net on floor between standards.
- 2. If not already in place, install ½" (13mm) fiberglass rods in ends of net.
- String net between standards by sliding looped cable over pulley on SLIDING ADJUSTMENT COLLAR.
- 4. Unspool the 2" (51mm) nylon strap from POWER WINCH. Hook one end of the TOP NET CABLE in hook on belt. Hook opposite end of TOP NET CABLE to CABLE ANCHOR COLLAR on the other standard.

NOTE: Make sure the cable is running cleanly through sheaves.

Section 4 - **Tensioning the Net**

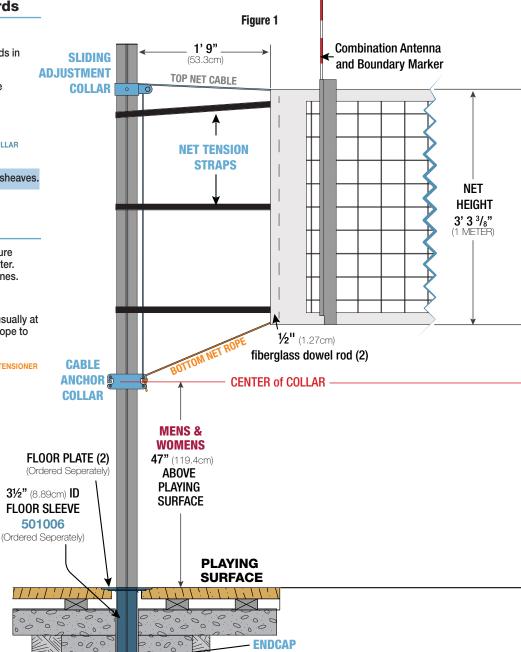
- Tighten net by turning WINCH HANDLE clock wise. Measure distance from playing surface to the top of net at center. Rules allow net to be ¾" (19mm) higher at court sidelines.
- 2. Set net height to 7' 11 5/8" (2.43m).
- Tie a loop in one end of the BOTTOM NET ROPE. Loop is usually at end with CABLE ANCHOR COLLAR for convenience. Hook rope to CABLE ANCHOR COLLAR (or power winch).
- Insert the remaining end of BOTTOM NET ROPE into ROPE TENSIONER and clip it to the POWER WINCH (or cable anchor collar).
- Wrap 1" (25mm) wide NET TENSION STRAPS once around standards and tighten using buckles.

NOTE: Winch incorporates a worm gear type mechanism.

To loosen top cable, turn winch handle counterclockwise.

5. Remeasure at center to ensure proper net height.

The Combination Volleyball System is now set for regulation MENS volleyball.



CABLE ANCHOR COLLAR

As A Set: C129.029

POWER WINCH

ASSEMBLY



Figure 2

MENS

CENTER

ALIGN WITH MARK

Combination Volleyball System

Official Net Heights for USVBA, NCAA, and NFSHSA (Volleyball)

VOLLEYBALL	GIRLS	BOYS
Grades 1-6 (Elem.)	6'1" (1.85m)	6'1" (1.85m)
Grades 7-9 (Middle School)	7' 4 ¹ /s" (2.24m)	7' 4 ¹ /s" (2.24m)
Grades 7-9 (Jr. High) \	7' 4 ¹ /s" (2.24m)	7' 11 ⁵ /8" (2.43m)
Grades 9-12 (Sr. High)	7' 4 ¹ /s" (2.24m)	7' 11 ⁵ /8" (2.43m)
Collegiate & International	7' 4 ¹ /8" (2.24m)	7' 11 ⁵ /8" (2.43m)

BADMINTON	5'1"
TENNIS	3'6"

Combination Antenna

and Boundary Marker

NET HEIGHT 3' 3 3/8" (1 METER)

Note: Regulation net heights are set at center of net. Ends of net (at court lines) cannot exceed the regulation height by more than $\frac{3}{4}$ " (2 cm). Allow $\frac{3}{4}$ " (2 cm) net sag at all settings.

Section 5 - Attaching Net Height Labels

Section 5.1 - Womens Volleyball Net Height

1. After the MENS position of SLIDING ADJUSTMENT COLLAR has been determined, make a mark on the standard at the bottom edge of ADJUSTMENT COLLAR. TOR

Loosen the ADJUSTMENT COLLAR and slide it down the post. You may need to unwrap the top NET TENSIONING STRAP.

3. Locate the NET HEIGHT LABELS. Align the bottom MENS line (see Fig. 2) with the mark made in step 1 and apply the label in the wide vertical channel. Both MENS and WOMENS net heights are now marked on the post.

Section 5.2 - Badminton & Tennis Net Height Labels The power winch, cable anchor collar and adjustment collars are all

designed to slide down to accommodate nets appropriate for badminton and tennis (502110 -Tennis Net recommended).

1. Adjust the collars and power winch to the appropriate height for

SLIDING

COLLAR

ADJUSTMENT

POWER WINCH

Folding Handle

with

1'9"

TOP NET CABLE

NET TENSION STRAPS

2" (5.08cm)
NYLON STRAP

MENS & WOMENS

47" (119.4cm) ABOVE PLAYING SURFACE

PLAYING

SURFACE

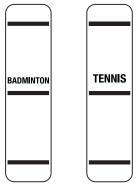
ENDCAP

CENTER of WINCH

TENSIONER

badminton and mark the bottom edge of the adjustment collar.

- Loosen the adjustment collar and slide it down the post.
- 3. Align the bottom line on the BADMINTON label with the mark.
- 4. Repeat steps 1-3 for Tennis



Section 6 - Safety Label

 Attach the net strap safety label to the interior curved surface of the post IN CLEAR VIEW of the winch operator.



TENNIS

WOMENS

Combination Volleyball System

500014 Volleyball Net

1/4" dia. braided -

white nylon rope

40'6" nylon coated 1/8" aircraft cable

4" Square netting

#36 Nylon cord (black)

1" wide polypropylene tension straps with tensioning buckles

1/2" dia. fiberglass dwel

500016 Combination Antenna and Boundary Marker

