

## IMPORTANT NOTICE

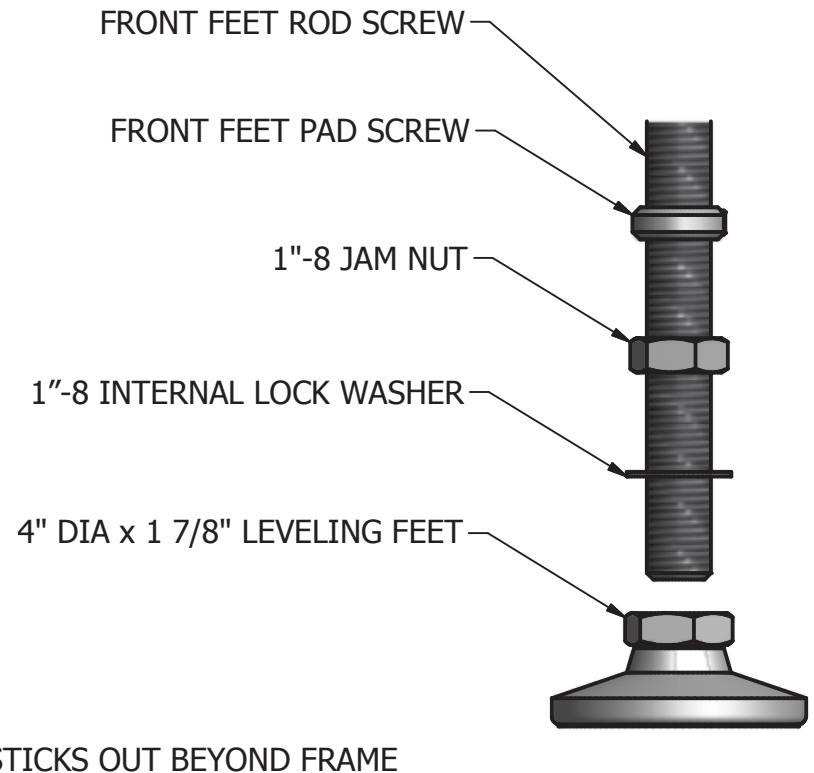
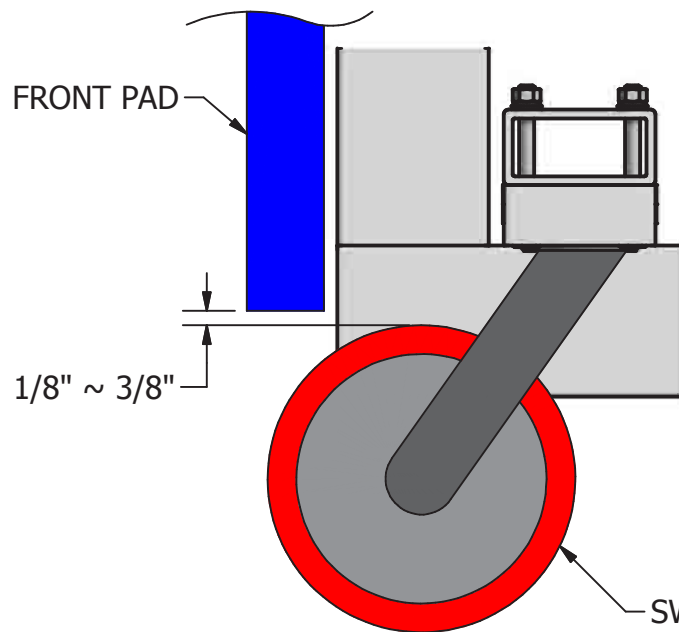
### REPLACING THE SHIPPING FEET

The front feet that are supplied with this unit are for transportation purposes, as they are subject to unusual wear and tear. An additional set of permanent feet have been supplied and should be installed prior to placing the unit on the finished sports floor. After the new feet are installed, ensure that the jam nut on each is securely tightened.

### ATTACHING THE LOWER FRONT AND SIDE PROTECTION PADS

Additional mounting brackets have also been provided for installing the lower front pad and both side pads. These brackets are provided to increase the holding capacity.

When installing the lower front pad refer to the illustration below to establish its proper height.



## Installation and Operating Instructions

### Applicable Part Numbers/Models:

PBEL54: Elite 5400

PBEL66: Elite 6600

PBEL96: Elite 9600



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# 1 Safety

- **IMPORTANT: LIFT-ASSIST SPRINGS UNDER EXTREME TENSION. DO NOT ADJUST SPRINGS WITHOUT CONSULTING MANUAL, SEE SECTION 13 (PAGE 27).**
- **IMPORTANT: DO NOT REMOVE SAFETY STRAP OR QUICK-RELEASE PIN UNTIL THE BACKBOARD AND RIM HAVE BEEN INSTALLED. FAILURE TO COMPLY MAY RESULT IN SEVERE OR FATAL INJURY AS WELL AS SIGNIFICANT DAMAGE TO SURROUNDING STRUCTURES.**
- Follow all warning labels on backstops.
- Do not stand directly behind uprights when raising or lowering the backstop.
- Be sure that area within 8 feet (2.5 meters) of backstop is clear of bystanders before raising or lowering.
- Obtain assistance if lifting/lowering operation is too strenuous.
- Do not use backstop unless it is pinned at game-height using the supplied quick release pin.
- Unit must be pinned in position using supplied quick-release pin at all times unless raising or lowering.
- When raising or lowering, do not release handles until backstop has been pinned in position with the supplied quick-release pin.
- Do not attempt to remove the backboard unless the unit is pinned in position with the supplied quick-release pin.
- Do not hang on rim.
- Do not use power tools to raise or lower feet.
- Do not use backstop for gameplay unless feet have been lowered to game height.
- Inspect backstop for damage before and after each use.

# 2 Specifications

	Extension	Ballast	Standard Backboard	Standard Rim	Total Weight
Elite 9600	96"	1000 lbs	GBRUB-42 (42" x 72")	GBA-18042	2,600 lbs
Elite 6600	66"	800 lbs	GBRUB-42 (42" x 72")	GBA-642	2,400 lbs
Elite 5400	54"	800 lbs <sup>1</sup>	GBRUB-54 <sup>2</sup> (42" x 54")	GBA-642	1,600 lbs

# 3 Introduction

This guide describes the installation and use of the ELITE Series Adjustable Portable Backstops, models PBEL54, PBEL66, and PBEL96.

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<sup>1</sup> When PBEL54 shipped with 72" board (optional upgrade), 1000 lbs of ballast is included.

<sup>2</sup> GBRUB-42 available as optional upgrade, must be specified at time of order

The sections of this guide that detail the initial setup of the backstops is written with experienced mechanical contractors/installers in mind.

The guide is organized in the order of operations required for initial assembly, installation, and setup. The installer is responsible to carry out the procedures described in sections 1 through 11. Section 12 describes the procedure for raising and lowering the backstop and is intended to be used by the end-user. Section 13 describes the procedure for adjusting the lift-assist springs and should only be used by an experienced contractor/installer.

## **4 Required Tools**

Before continuing, please verify that you have the following tools required to complete the installation and setup of your Elite series adjustable portable backstop.

- Socket wrench with 24mm deep socket (supplied)
- Hex wrench (3/16")
- Adjustable wrench
- #2 Phillips screwdriver
- Level
- 7/8" Transfer punch (recommended)
- 1-1/8" hole saw
- 1-3/8" hole saw
- Adhesive suitable for metal-to-wood bonding
- Sandpaper, 180 – 320 grit

## **5 Included Hardware & Components**

Before continuing, please verify that you have all the required hardware (included w/ unit) for installation and setup.

## 5.1 Miscellaneous Hardware



Figure 5-1: Quick-release pin for height adjustment (1X)

## 5.2 Locating devices



Figure 5-2: Locator Pin Bushing (2X)



Figure 5-3: Locator Pin (2X)



Figure 5-4: Wire-snap safety pin for locator pins (2X)

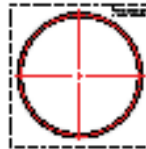


Figure 5-5: Locating Sticker (2X)

## 5.3 Anchor Kit (PBELKIT)<sup>3</sup>



Figure 5-6: FP-89 Floor Anchor (1X)



Figure 5-7: Cover plate (for floating wood floors only)

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<sup>3</sup> Included with PBEL96, optional on PBEL66 & PBEL54, see catalog for ordering information



Figure 5-8: 1/2"-13 Eyebolt w/ shoulder (1X)



Figure 5-9: Shackle (2X)



Figure 5-10: Twisted chain (8")

## 5.4 Backboard



Figure 5-11: Backboard (72" board supplied w/ PBEL96 & PBEL 66, 54" with PBEL54)



Figure 5-12: Left (viewed from court) backboard support arm (1X).



Figure 5-13: Right (viewed from court) backboard support arm (1X).

## 5.5 Backboard hardware kit



Figure 5-14: 5/16"-18 Flanged Hex Nuts (2X)



Figure 5-15: 5/16"-18 x 1-1/8" Carriage Bolt (2X)



Figure 5-16: 5/16" Flat Washer (2X)



Figure 5-17: 5/16" Split Washer (2X)



Figure 5-18: 3/8"-16 x 1-1/2" Hex Bolt (2X)



Figure 5-19: 3/8" Flat Washer (2X)



Figure 5-20: 3/8"-16 x 1" Carriage Bolt (2X)



Figure 5-21: 3/8" Split Washer (2X)



Figure 5-22: 3/8"-16 Flanged Hex Nuts (4X)

## 5.6 Rim



Figure 5-23: Breakaway Rim (1X, model varies)

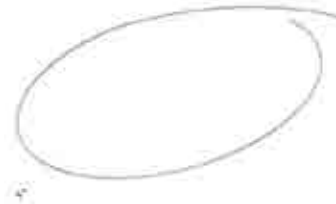


Figure 5-24: Nylon Net Tie (1X)



Figure 5-25: 3/8"-16 Flanged Hex Nuts (4X)



Figure 5-26: 3/8" Flat Washer (4X)



Figure 5-27: 3/8" Split Washer (4X)



Figure 5-28: 3/8" x 4-1/2" Hex Bolt (4X)



## 6 Installing Backboard/Rim

**WARNING: DO NOT REMOVE SAFETY STRAP OR QUICK-RELEASE PIN UNTIL THE BACKBOARD AND RIM HAVE BEEN INSTALLED. FAILURE TO COMPLY MAY RESULT IN SEVERE OR FATAL INJURY AS WELL AS SIGNIFICANT DAMAGE TO SURROUNDING STRUCTURES.**

1. Lower both feet (Figure 6-1) using the supplied socket wrench until both side 2-by-4's of the base are level (Figure 6-2).

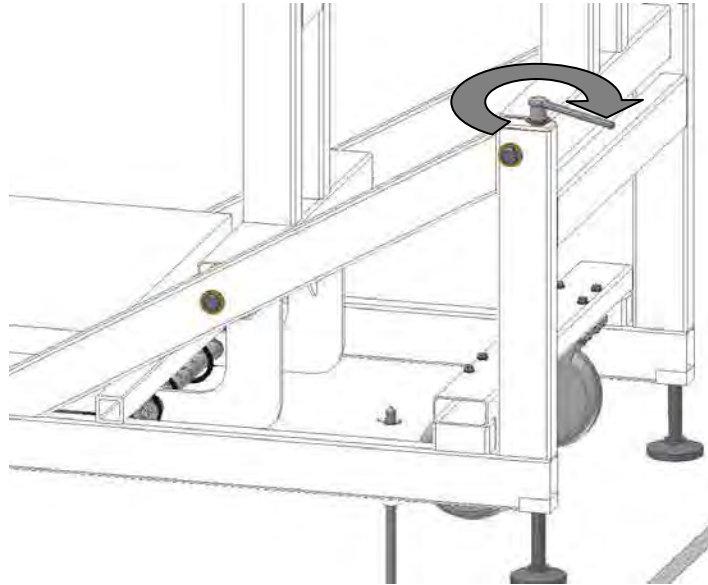


Figure 6-1: Lower feet using supplied socket wrench.

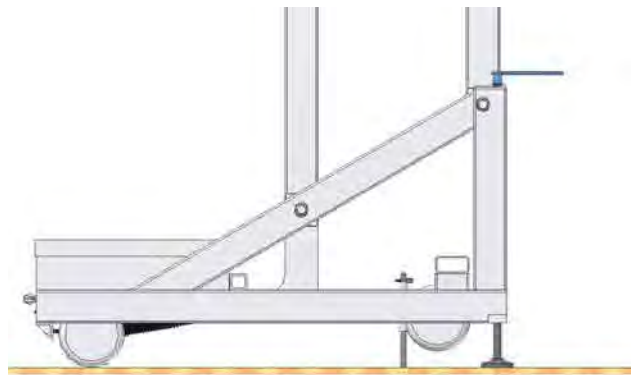
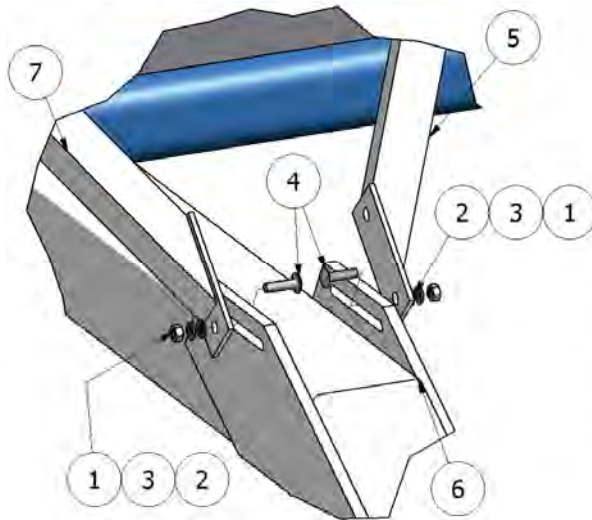


Figure 6-2: Lower feet until bottom horizontal 2" x 4" 's are level.

2. Attach left and right backboard support arms to slots in boom using the 5/16" -18 x 3/4" carriage bolts (2X), 5/16" flange nuts (2X), 5/16" flat washers (4X), and 5/16" split washers (2X) as shown in Figure 6-3. Hand-tighten the nuts; do not use a wrench.



PARTS LIST		
ITEM	QTY	DESCRIPTION
1	2	5/16" Hex Nut
2	2	5/16" Plain Washer
3	2	5/16" Spring Lock Washers
4	2	5/16-18 x 1-1/4" Carriage Bolt
5	1	Left Backboard Support Arm
6	1	PBEL54 Boom
7	1	Right Backboard Support Arm

Figure 6-3: Install backboard support arms to slots in boom.

- Support backboard such that the mounting holes in the bottom middle of frame are in line with the bolt pattern on the end of the boom (Figure 6-4). Sawhorses or a forklift may be used if additional hands are not available to help.

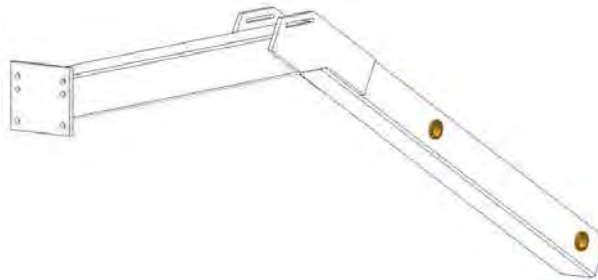


Figure 6-4: Backstop boom.

- Insert 3/8" -16 x 1 1/2" hex bolts (2X), 3/8" flat washers (2X), and 3/8" split washers (2X) into middle row of holes in backboard mount (Figure 6-5, details A & B).
- Slide the bolts in step 4 into the middle set of holes of the backstop boom. Fasten bolts to boom using the 3/8" flat washers (2X) and the 3/8" flanged nuts. Hand-tighten the nuts.
- Attach the backboard support arms to the slots in the top of the backboard frame using the 3/8" -16 x 1 1/4" carriage bolts (2X), 3/8" split washers (2X), 3/8" flat washers (4X), and 3/8" flanged nuts (2X) as shown in Figure 6-5 (detail C). Hand-tighten the nuts.
- Check the plumb and of the backboard. If it is not plumb, slide the backboard support arms in the slots in the boom until the board is plumb. Once the board is plumb, wrench-tighten all nuts.

8. Remove front cover from supplied rim.
9. Fasten rim to board using the 3/8" -16 x 3¾" hex bolts (4X), 3/8" flat washers (8X), 3/8" split washers (4X), and 3/8" flanged nuts (4X) as shown in Figure 6-6. Ensure that rim is level, side-to-side<sup>4</sup>, before fully tightening nuts.
10. Replace rim cover.
11. Follow instructions included with rim to attach net.

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<sup>4</sup> Level rim front-to-back using adjusting bushing in board.

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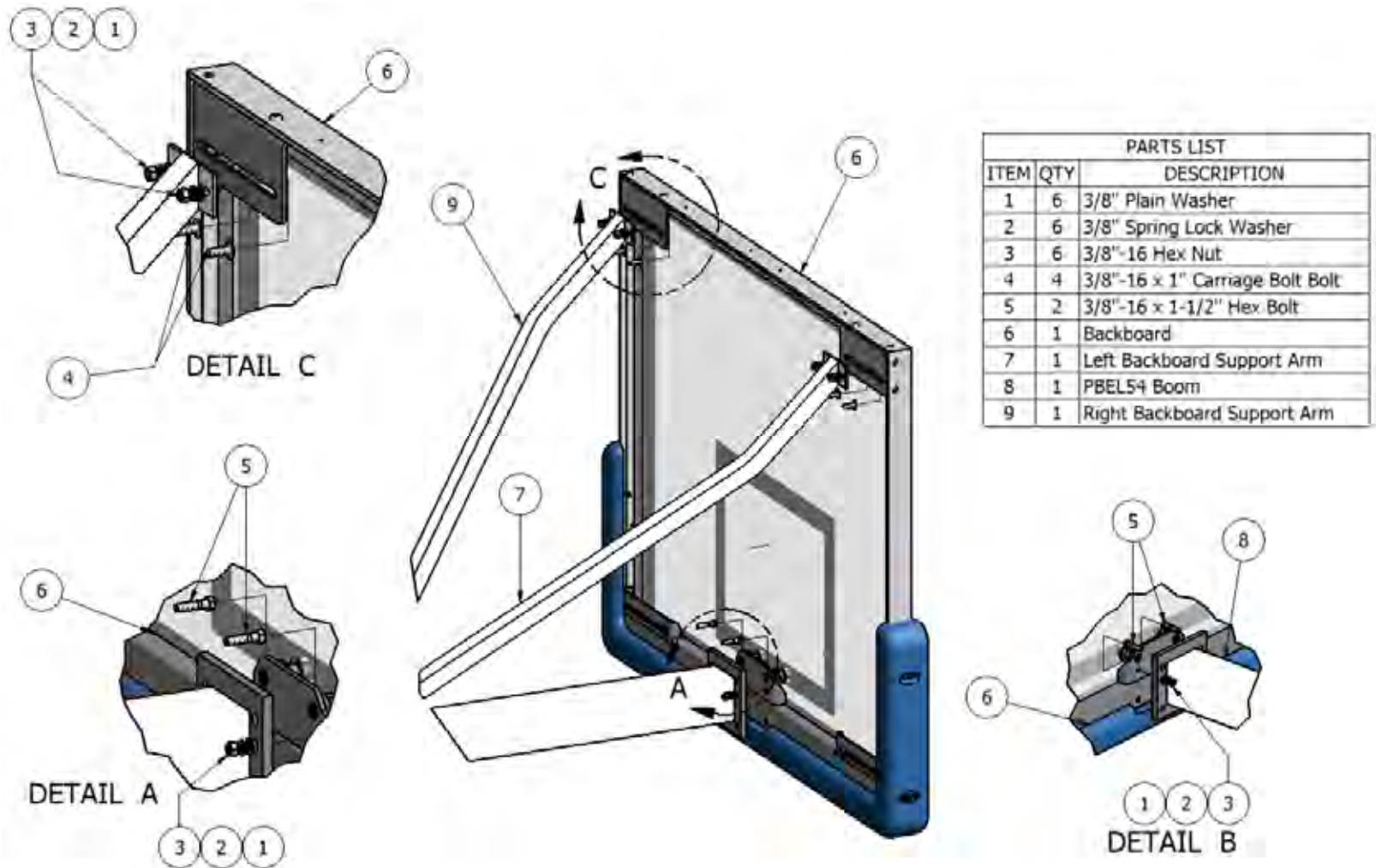


Figure 6-5: Installation of backboard to boom.

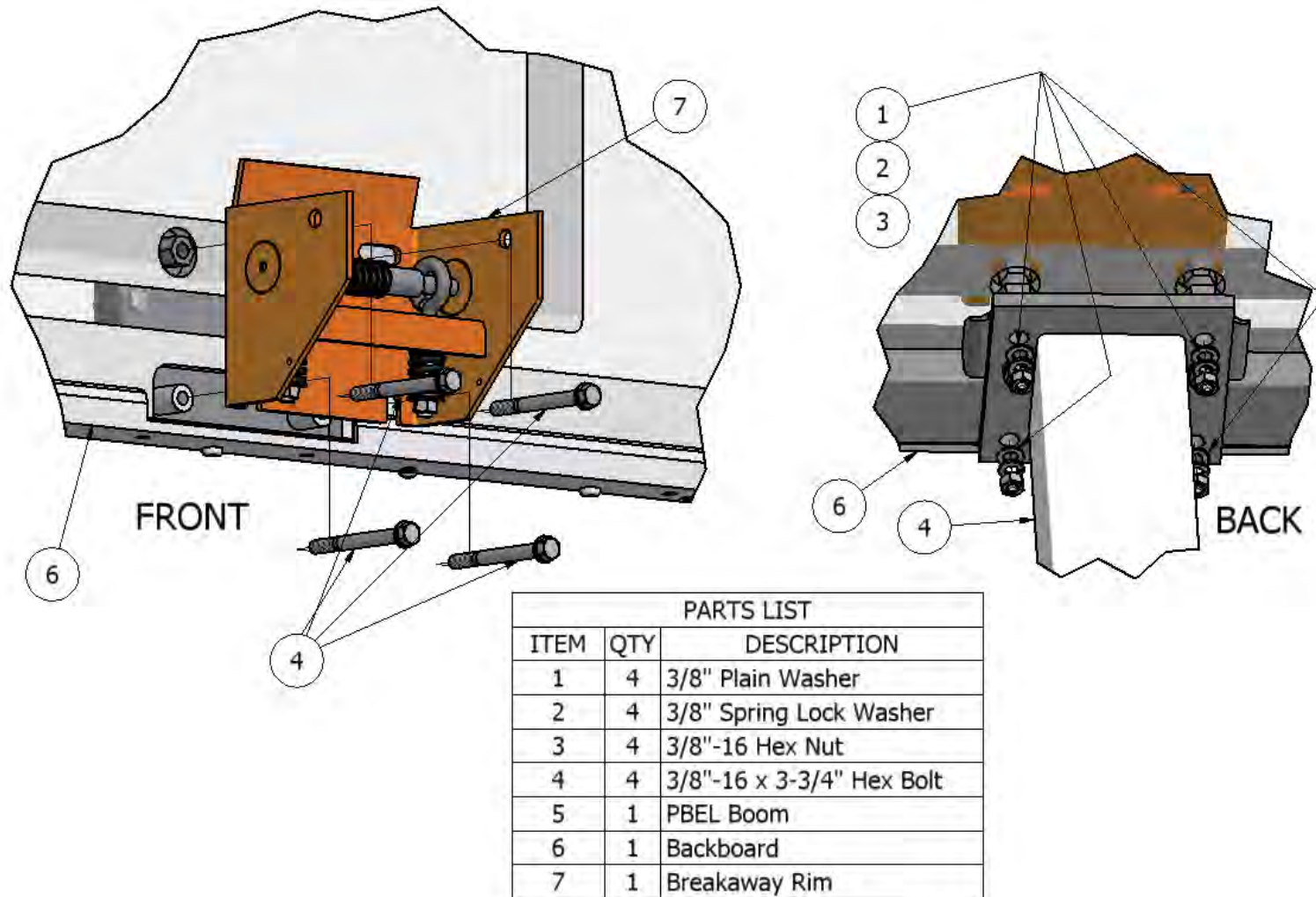


Figure 6-6: Attach rim to board.

## 7 Unpacking

**WARNING: DO NOT REMOVE SAFETY STRAP OR QUICK-RELEASE PIN UNTIL THE BACKBOARD AND RIM HAVE BEEN INSTALLED. FAILURE TO COMPLY MAY RESULT IN SEVERE OR FATAL INJURY AS WELL AS SIGNIFICANT DAMAGE TO SURROUNDING STRUCTURES.**

1. **ONLY IF BACKBOARD HAS BEEN INSTALLED**, remove quick-release pin from height adjuster mechanism (Figure 7-1).

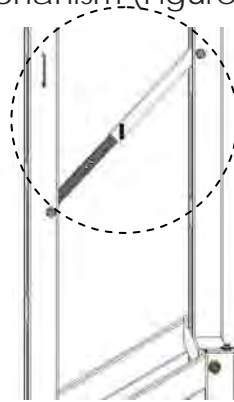


Figure 7-1: Height adjuster mechanism

2. Carefully remove shipping strap by pressing on the buckle release.
  - a. Pay extra attention when removing the strap to make sure that the backstop does not begin to rise on its own. If it does, retighten strap, reinstall the quick-release pin and refer to section 13 for details on how to adjust the springs<sup>5</sup>.
  - b. If the unit does not rise on its own (indicates that springs are correctly adjusted), reinstall the quick-release pin to lock in the storage position or refer to section 11 for instructions on how to raise the backstop.
3. Remove all the protective wrapping from the frame. Be careful to not scratch the powder-coated finish if using a box-cutter or other sharp object.

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<sup>5</sup> Spring tension is preset at factory. Under normal circumstances, spring adjustment is not typically necessary.

## 8 Set Foot Stops

**WARNING: DO NOT STAND DIRECTLY BEHIND UPRIGHTS WHEN RAISING OR LOWERING THE BACKSTOP. SEE Figure 8-1 FOR DETAILS ON WHERE TO SAFELY POSITION YOURSELF WHEN RAISING/LOWERING THE BACKSTOP.**

**WARNING: BE SURE THAT AREA WITHIN 8 FEET (2.5 METERS) IS CLEAR OF BYSTANDERS BEFORE RAISING OR LOWERING.**

**WARNING: DO NOT USE BACKSTOP UNLESS IT IS PINNED AT GAME-HEIGHT USING THE SUPPLIED QUICK RELEASE PIN.**

**WARNING: UNIT MUST BE PINNED IN POSITION USING SUPPLIED QUICK-RELEASE PIN AT ALL TIMES UNLESS RAISING OR LOWERING.**

**WARNING: WHEN RAISING OR LOWERING, DO NOT RELEASE HANDLES UNLESS BACKSTOP IS PINNED IN POSITION WITH THE SUPPLIED QUICK-RELEASE PIN.**

**WARNING: DO NOT REMOVE SAFETY STRAP OR QUICK-RELEASE PIN UNTIL THE BACKBOARD AND RIM HAVE BEEN INSTALLED. FAILURE TO COMPLY MAY RESULT IN SEVERE OR FATAL INJURY AS WELL AS SIGNIFICANT DAMAGE TO SURROUNDING STRUCTURES.**

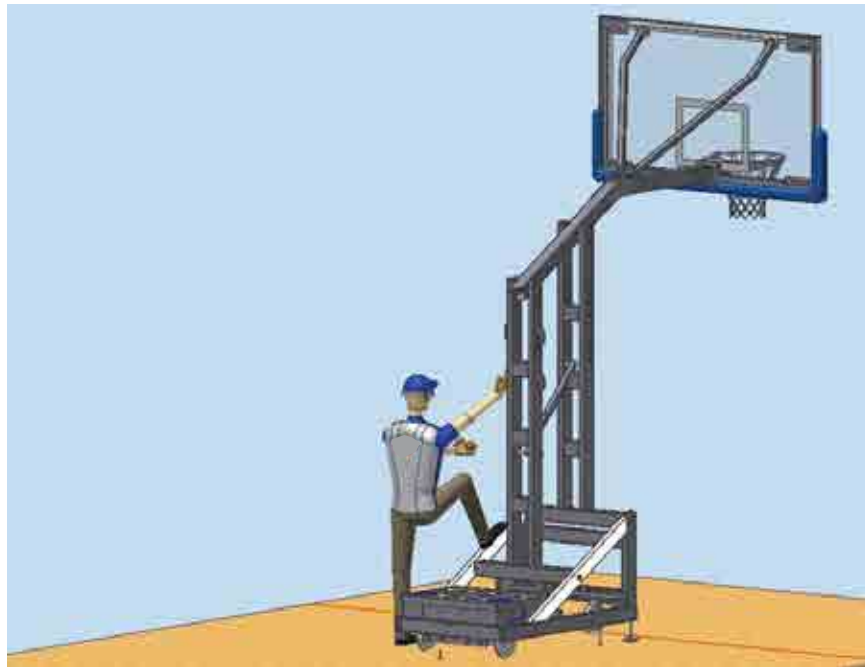


Figure 8-1: Where to safely stand when raising/lowering backstop.

1. Lower both feet (Figure 6-1) using the supplied socket wrench until both side horizontal 2x4's of the base are level (Figure 6-2).
2. **ONLY IF BACKBOARD IS INSTALLED**, remove the quick-release pin from the height adjuster mechanism (Figure 7-1).

3. Stand to one side of the unit and lift one of the two handles on the lower upright (Figure 8-2).
  - a. If raising the backstop is too strenuous obtain assistance before attempting to raise.
  - b. Be sure to maintain control of the uprights while raising. Do not release handle while raising.

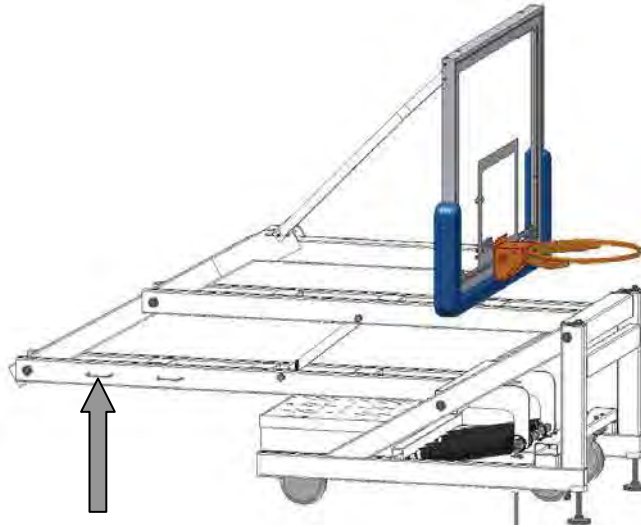


Figure 8-2: Lift handle on lower upright.

4. Raise backstop to maximum height (the uprights will reach a hard stop and will be fully vertical).
  - c. Insert the quick-release pin into the height adjuster.
5. Verify that the top of the rim is 10 feet off the ground.
  - d. If the rim is not at 10 feet, adjust both feet (be sure to maintain level side-to-side) until it is.
6. With the backstop still set to 10', verify that the board is still plumb. If not, adjust according to the procedure in section 6 (step 7).
7. Set both foot stops to the bottom of the openings in the front of the base and tighten both setscrews using the 3/16" hex wrench (Figure 8-3).
  - c. You may need to rotate the stops until the setscrews are facing outward to tighten screws.
  - d. Tighten setscrews as much as possible without damaging hex socket.



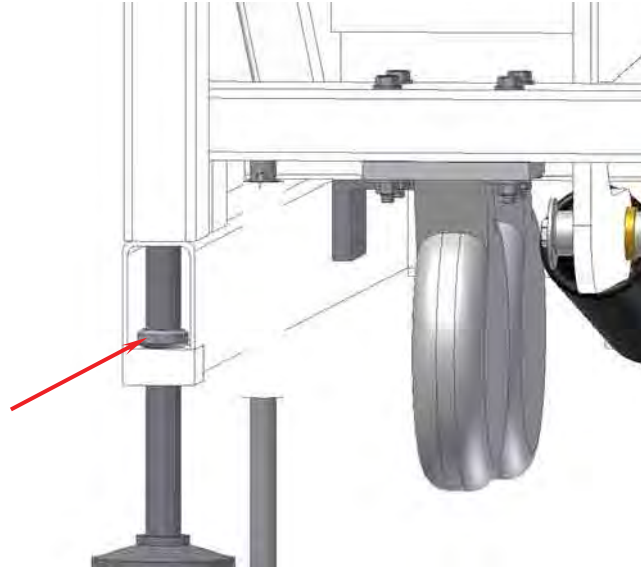


Figure 8-3: Tighten set screws on foot stops.

**CAUTION:** Once the foot stops are set, never apply excessive force when raising or lowering the feet. If too much resistance is encountered, remove the front padding and verify that the foot stops have not become undone and that there are no objects obstructing the feet.

8. Lower the backstop to the transport position by removing the quick-release pin and pulling back on handles until backstop is fully lowered.
  - a. Always stand on the same side of the unit as the ring on the quick-release pin when pulling the pin; never reach across to the other side of the upright to pull the pin.
9. Pin the unit in the lowered (transport) position.
10. Raise the feet until both feet are off the ground and the unit rolls freely on all four wheels.

Now that the stops have been set, the user can lower the feet until a hard stop is reached. This ensures that the rim is set to the correct height with each use without needing to measure rim height.

## 9 Padding Installation

Padding should be installed **ONLY AFTER** the foot stops have been set (see section 8 above). See section 9.2 for installation of PBEL66/96 pads and section 9.3 for installation of PBEL54 pads.

## 9.1 Included Padding



Figure 9-1: Front Pad, (1X)

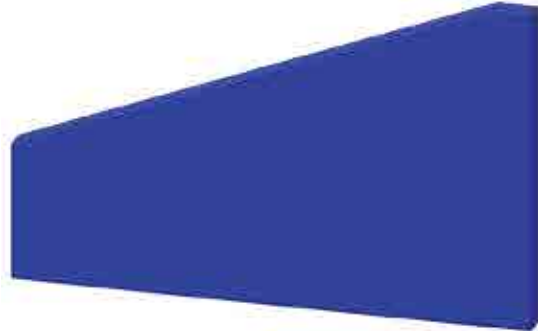


Figure 9-2: Side Pads (1X Right, 1X Left)

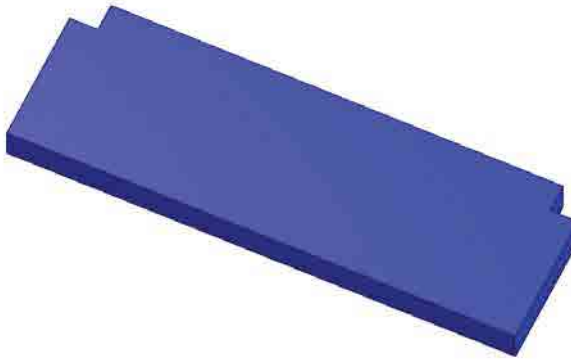


Figure 9-3: Top Pad (1X, PBEL66/PBEL96 Only)



PBEL54/PBEL6  
6



PBEL96

Figure 9-4: Upright Pad (1X)



Figure 9-5: U-Clip (10X)



Figure 9-6: L-Clip (5X)



Figure 9-7: Wood screws – 1/4" x 1"  
(30X)

## 9.2 PBEL66/96 Padding Installation

1. Raise the uprights to 10'0" height.
2. Install the top pad on top of base frame as shown below.



Figure 9-8: Top pad installation.

3. Install the front pad:
  - a. Align the top of the front pad with the top of the top pad.
  - b. While holding the front pad in place, remove the top pad.
  - c. On the rear of the front pad, mark the location of top edge of the top horizontal 2x4 of the base frame.
  - d. Install 2 L-clips to the front pad such that the tops of the clips align with the line marked on the pad in the previous step.

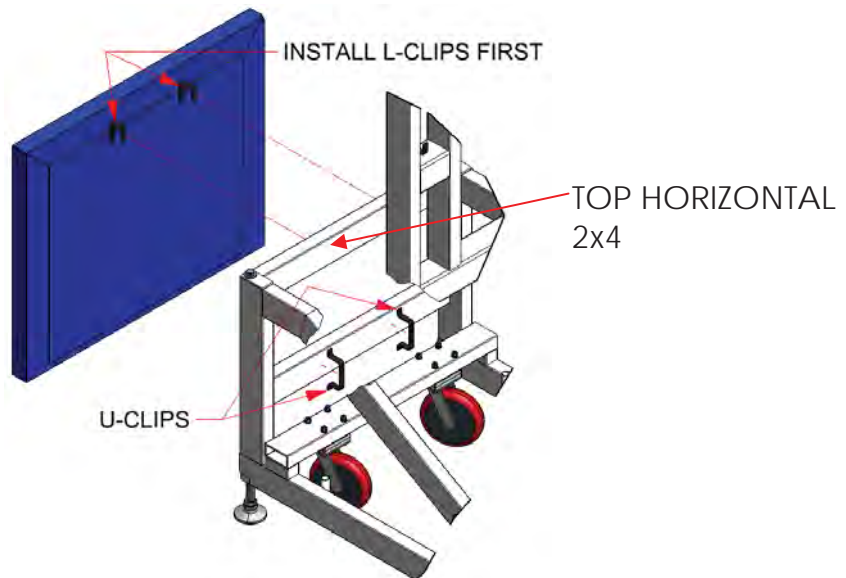


Figure 9-9: L-Clips fastened to the front pad before U-Clips.

- e. Fit the pad onto the top horizontal 2x4 using the fastened L-clips.
  - f. Secure the front pad to the bottom front 2x4 with two u-brackets.
  - g. Replace the top pad.
4. Install the left and right side pads.
    - a. Locate the side pads by aligning the holes on the inside faces of the pads with the hubs on the sides PBEL base frame (Figure 9-10).
    - b. Ensure that the tops of the side pads are flush with the tops of the top pad and front pads.
    - c. Ensure that the front surfaces of the side pads are snug with the rear surface of the front pad.

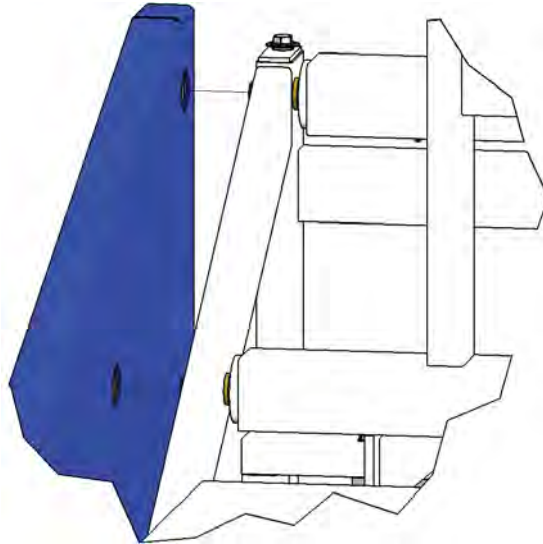


Figure 9-10: Align holes in side pads with hubs on base frame.

- d. Fasten the side pads to the base frame using two U-Clips along the side horizontal 2x4, two U-Clips along the diagonal 2x4, and one L-Clip at the rear of the side horizontal 2x4 (Figure 9-11).

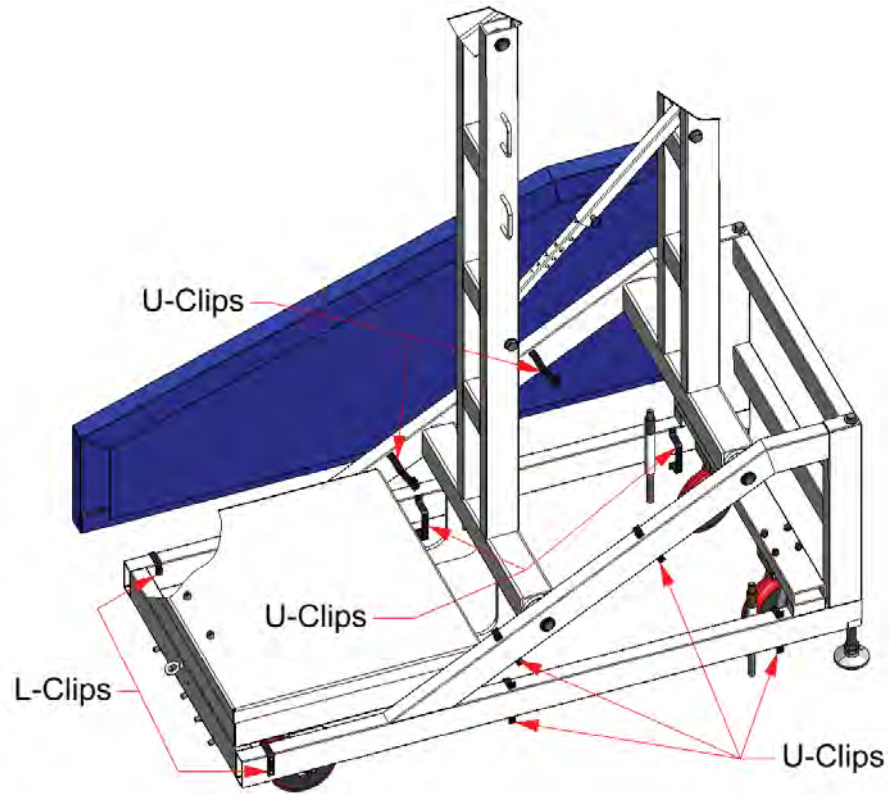


Figure 9-11: Install side pads to frame using U- and L-Clips

5. Install the upright pads:
  - a. Fasten the upright pad to the front using the hook-and-loop straps.
  - b. Secure the upright pad in place by fastening an L-Clip upside down to the inside surface of the upright pad, such that the clip rests on one of the horizontal supports of the upright (Figure 9-12).

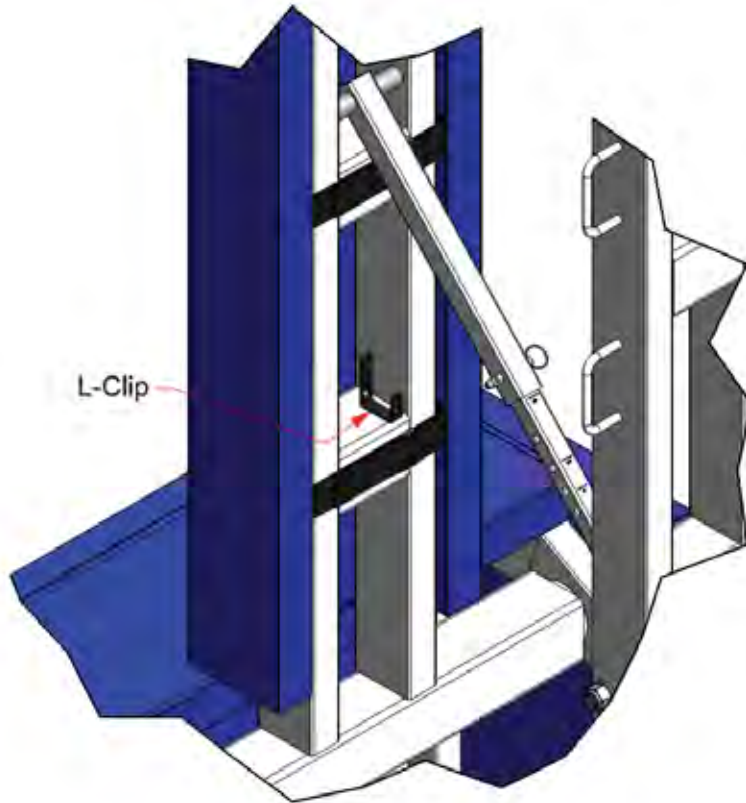


Figure 9-12: L-Clips fastened to the front pad before U-Clips.

### 9.3 PBEL54 Padding Installation

1. Install the left and right side pads.
  - a. Locate the side pads by aligning the holes on the inside faces of the pads with the hubs on the sides PBEL base frame (Figure 9-10). **HINT:** Place the front pad against the front of the frame to ensure that the side pads are located correctly, front-to-back.
2. Install the front pad:
  - a. Use shims to support the front pad against the front of the base frame such that the top of the front pad is flush with the tops of the side pads. Ensure that the front surfaces of the side pads are snug with the rear surface of the front pad.
  - b. Fasten front pad to base frame using two U-Clips along the top horizontal 2x4 and two U-Clips along the bottom horizontal 2x4 (Figure 9-13).

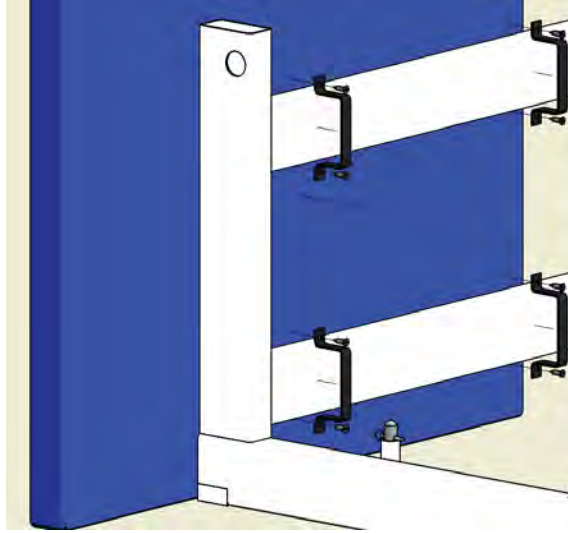


Figure 9-13: Fasten front pad with U-Clips for PBEL54.

3. Install the upright pads:
  - c. Fasten the upright pad to the front using the hook-and-loop straps.
  - d. Secure the upright pad in place by fastening an L-Clip upside down to the inside surface of the upright pad, such that the clip rests on one of the horizontal supports of the upright (Figure 9-12).

## 10 Installing Locating Devices

There are two methods available for locating your PBEL portable backstop repeatedly and accurately.

In the first method, bushings (supplied) are installed in the floor. These bushings allow alignment pins (supplied) from the PBEL base frame to positively locate your backstop. Refer to section 10.1 for location and installation of bushings.

In the second method, locating stickers (supplied) that indicate the positions of the PBEL feet are applied to the floors. Refer to section 10.2 for location of stickers.

The advantage of using the bushings for location is that the repeatability and accuracy of location are guaranteed and that it can prevent the unit from shifting slightly during aggressive play. The disadvantage is that installation of the bushings requires that holes be drilled in your gym floors. This may not be desirable or possible, depending on the type of floor.

The advantage of using the stickers is that they do not require modification to the flooring. They do not, however, guarantee accuracy or repeatability of location and, in time, may need to be replaced.

## 10.1 Installation of Locating Bushings

1. Locate holes. There are two options for locating the holes for the anchor and locator bushings.

### Option 1:

Locate the holes according to the diagram below that is appropriate for your backstop model:

- a. PBEL54 (54" overhang): refer to Figure 10-1
- b. PBEL66 (66" overhang): refer to Figure 10-2
- c. PBEL96 (96" overhang): refer to Figure 10-3

### Option 2:

- a. Position the backstop such that it is centered on court and the front surface of the backboard glass (at 10'0" height) is the correct distance from the baseline (48").
  - b. Use the transfer punch or a marker to locate holes for locator bushings, using the holes for the alignment pins as guides.
  - c. Locate hole for floor anchor such that there will be some slack in the chain when installed to anchor point at rear of PBEL base frame. Refer to section 11 for anchor kit installation.
2. Drill the holes for the locating bushings using the 1-1/8" hole saw. Drill all the way through the floor surface.
  3. Sand the inside surface of the hole and the outside surface of the bushing.
  4. Clean and dry all sanded surfaces.
  5. Liberally apply adhesive to surface of the drilled hole only.
  6. Press the bushing into the hole until it is approximately 1/16" below the floor surface.
  7. Clean up any adhesive residue according to manufacturer's instructions.



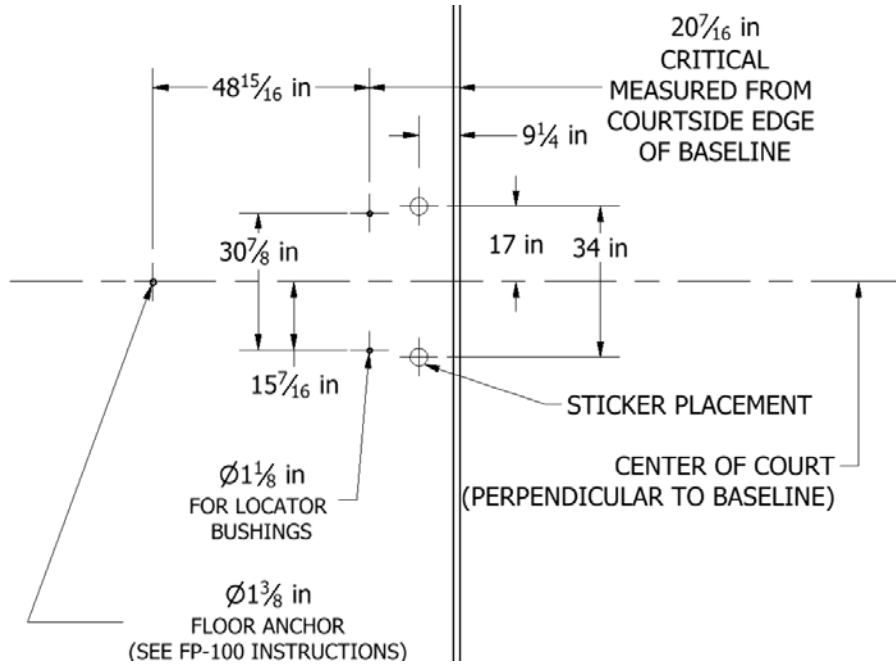


Figure 10-1: PBEL54 Locating and anchor holes and sticker locations.

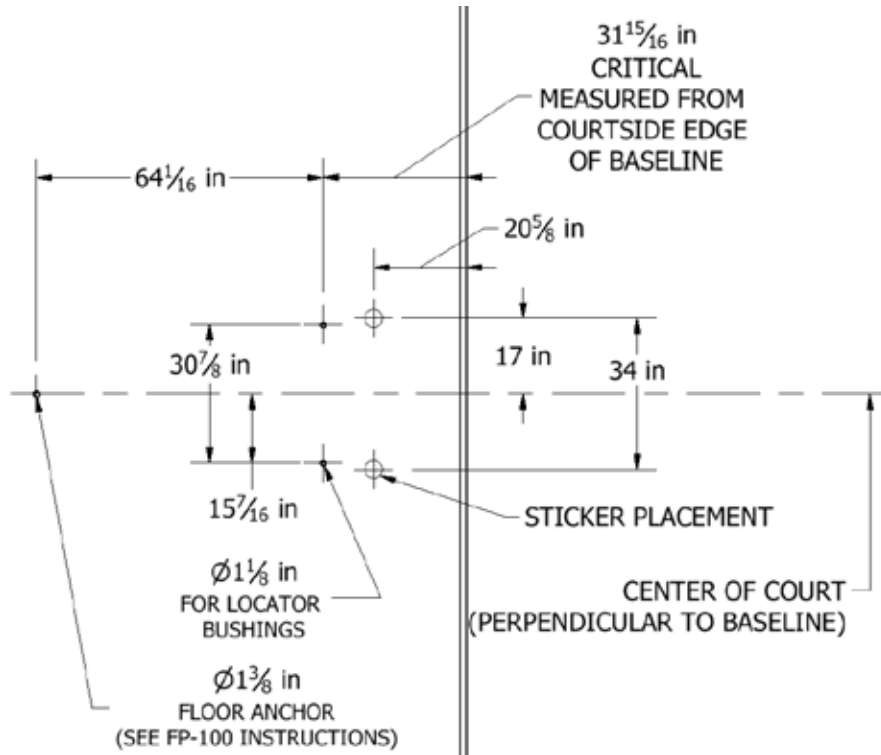


Figure 10-2: PBEL66 Locating and anchor holes and sticker locations.

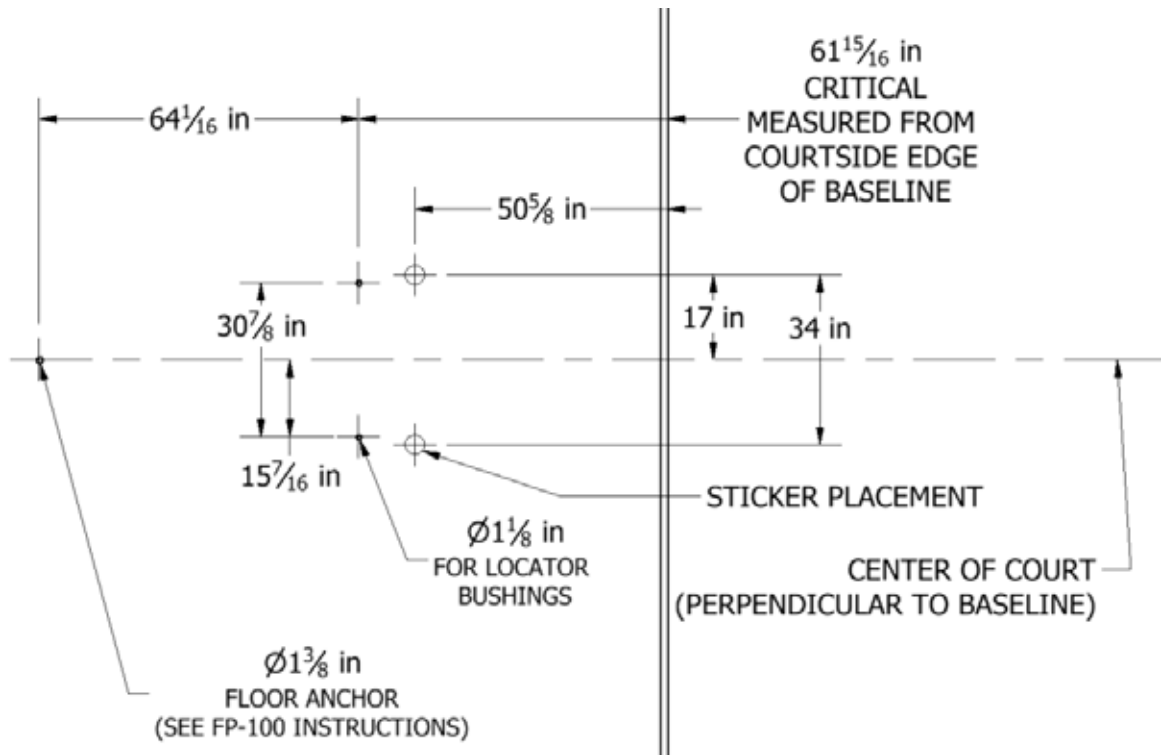


Figure 10-3: PBEL96 Locating and anchor holes and sticker locations.

## 10.2 Location of Locating Stickers

Locate and apply the stickers according to the diagram above that is appropriate for your backstop model:

- a. PBEL54 (54" overhang): refer to Figure 10-1
- b. PBEL66 (66" overhang): refer to Figure 10-2
- c. PBEL96 (96" overhang): refer to Figure 10-3

## 11 Installing Anchor Kit

The anchor kit is included with the **PBEL96 ONLY**.

The anchor kit is supplied with the FP-89 floor anchor, for use with all floor types except floating wood floors. A brass cover plate is also supplied for use with floating wood floors.

<sup>6</sup> When ordering anchor kit for the PBEL54 or PBEL66, be sure to specify floor type.

For installation in all floor types other than floating wood floors, Refer to FP-89 installation instructions (included with kit) for details.

For installation in floating wood floors ONLY, unscrew the top plate from the FP-89 floor anchor (Figure 11-1) and install with the brass cover plate (Figure 5-7). Refer to FP-100 installation instructions (included with kit) for details.

For all floor types, locate holes for floor anchors according to the appropriate diagram:

- a. PBEL54 (54" overhang): refer to Figure 10-1
- b. PBEL66 (66" overhang): refer to Figure 10-2
- c. PBEL96 (96" overhang): refer to Figure 10-3

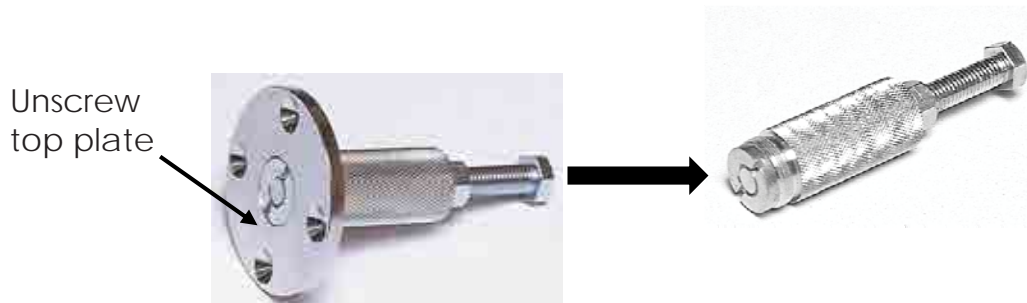


Figure 11-1: Unscrew top plate of FP-89 to convert for use in floating wood floors.

Anchor the PBEL backstop to the floor anchor using the supplied shackles, chain, and eyebolt. Attach anchor kit to eye on rear of ballast tray.

## 12 Raising/Lowering Backstop

**WARNING: DO NOT STAND DIRECTLY BEHIND UPRIGHTS WHEN RAISING OR LOWERING THE BACKSTOP. SEE Figure 8-1 FOR DETAILS ON WHERE TO SAFELY POSITION YOURSELF WHEN RAISING/LOWERING THE BACKSTOP.**

**WARNING: BE SURE THAT AREA WITHIN 8 FEET (2.5 METERS) IS CLEAR OF BYSTANDERS BEFORE RAISING OR LOWERING.**

**WARNING: DO NOT USE BACKSTOP UNLESS IT IS PINNED AT GAME-HEIGHT USING THE SUPPLIED QUICK RELEASE PIN.**

**WARNING: UNIT MUST BE PINNED IN POSITION USING SUPPLIED QUICK-RELEASE PIN AT ALL TIMES UNLESS RAISING OR LOWERING.**

**WARNING: WHEN RAISING OR LOWERING, DO NOT RELEASE HANDLES UNLESS BACKSTOP IS PINNED IN POSITION WITH THE SUPPLIED QUICK-RELEASE PIN.**

**WARNING: DO NOT REMOVE SAFETY STRAP OR QUICK-RELEASE PIN UNTIL THE BACKBOARD AND RIM HAVE BEEN INSTALLED. FAILURE TO COMPLY MAY RESULT IN SEVERE OR FATAL INJURY AS WELL AS SIGNIFICANT DAMAGE TO SURROUNDING STRUCTURES.**

## 12.1 Raising Backstop

1. Locate the backstop relative to bushings or stickers.
  - a. If you installed the bushings:
    - i. Remove wire-snap safety pins (Figure 5-4) from locator pins (Figure 5-3) and drop locator pins through alignment sleeves and into bushings.
    - ii. Insert safety pins into top hole of locator pins.
  - b. If you used the stickers, align the feet of the base frame so they are centered directly over stickers.
2. Lower feet using supplied socket wrench (Figure 6-1) until a hard stop is reached.

**CAUTION: There are stops that were set during installation (Section 8) such that the rim will always be at the height indicated on the height adjuster mechanism.**

- a. If excessive resistance is encountered, do not force the tool to adjust the feet or you may damage the foot stops. If you believe that the feet are not completely lowered, stop lowering the feet, continue with the procedure to raise the backstop to 10' and measure the height of the rim from the floor. If the height is not correct, refer to section 9 for details on how to remove the padding and check the state of the foot stops (Figure 8-3).
3. Install anchor kit (PBELKIT) into floor anchor (if applicable<sup>3</sup>) and fasten to eye on rear of backstop.
  - a. Be sure that eyebolt is fully threaded into floor anchor (FP-90).
  - b. Be sure that shackle pins are tightly threaded.
4. **ONLY IF BACKBOARD IS INSTALLED**, remove the quick-release pin from the height adjuster mechanism (Figure 7-1).
  - a. It may be necessary to lift handle slightly in order to pull the pin.
5. Stand to one side of the unit and lift one of the two handles on the lower upright (Figure 8-2).

- e. If raising the backstop is too strenuous obtain assistance before attempting to raise.
- f. Be sure to maintain control of the uprights while raising. Do not release handle while raising.

## 12.2 Lowering Backstop

1. Remove the quick-release pin.
2. Pull back on handles until backstop is fully lowered.
  - a. Always stand on the same side of the unit as the ring on the quick-release pin when pulling the pin; never reach across to the other side of the upright to pull the pin.
  - b. See Figure 8-1 for details on where to safely stand.
3. Pin the unit in the lowered (transport) position.
4. Raise the feet until both feet are off the ground and the unit rolls freely on all four wheels.

## 13 Spring Adjustments

**WARNING: DO NOT REMOVE SPRINGS UNDER ANY CIRCUMSTANCES.**

**WARNING: WHEN ADJUSTING THE SPRINGS ALWAYS ENSURE THAT THE LOCKNUTS ARE NEVER LOOSEMED TO THE POINT WHERE NO THREADS ARE VISIBLE.**

Adjusting the lift-assist springs and should only be used by an experienced contractor/installer.

The spring tension is pre-set at the factory. Under normal circumstances, spring adjustment is not typically necessary. Over time, however, the springs may require adjustment to ensure that the lift-assist characteristics of the springs are maintained.

1. Use a 7/8" socket wrench for spring adjustments.
2. You will need to place a steel rod in the eye of the eyebolt to which the springs are attached (inside face of rear horizontal 2x4) to prevent the eyebolt from rotating as you adjust the nuts.
3. If the unit raises on its own, the springs are too tight.

- a. Loosen each nut by the same amount.
  - b. Proceed from right to left, loosening each nut by one complete rotation.
  - c. Pull the quick-release pin from the height adjuster mechanism to see if the problem has been corrected. If not, repeat steps a and b.
4. If the unit requires excessive force to raise, the springs do not have enough pre-tension.
    - a. Loosen each nut by the same amount.
    - b. Proceed from right to left, loosening each nut by one complete rotation.
    - c. Pull the quick-release pin from the height adjuster mechanism to see if the problem has been corrected. If not, repeat steps a and b.

## 14 Maintenance

Your ELITE series portable backstop is designed to provide years of play; however, it is recommended that they be inspected at least once every season, for signs of excessive wear. Key areas to inspect include (but are not limited to):

- Welds on the boom, uprights and base.
- The springs, in particular the areas of the hooks.
- The backboard frame.
- The rim housing.

Lubrication should be applied to the bronze bushings and the spring contact points once a season or when normal raising/lowering of the backstop creates excessive noise.

Doublecheck that the board and rim are level and plumb and verify that all bolted connections are well fastened.