

INSTALLER NOTE:

**UPON COMPLETION OF THE INSTALLATION/ ASSEMBLY OF THIS PORTABLE BACKSTOP,
MAKE SURE THIS INSTRUCTION MANUAL IS IN POSSESSION OF THE OWNER OR
FACILITY MANAGER, TO SAVE FOR FUTURE REFERENCE.**



www.porterathletic.com
888-277-7778

1835 Portable Basketball Backstop Installation, Operation, and Maintenance Manual

Dear Customer:

Congratulations on purchasing the Porter No. 1835 Competition Portable Basketball Backstop. This quality built backstop features the unique Porter Center-Strut® design for maximum player and equipment safety, while providing many features for the ultimate in competition play. Your athletes and spectators should enjoy thousands of hours of practice and competition on Porter equipment.

This booklet is intended to be used for the initial set-up of your No. 1835 backstop, and as a guide for the safe use and maintenance of the backstop.

PLEASE READ THESE INSTRUCTIONS CAREFULLY AND COMPLETELY BEFORE BEGINNING THE SET-UP WORK, OR MAINTENANCE, OF THIS UNIT.

If after reviewing this manual you have any questions, please feel free to consult our factory.



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ITEM / DESCRIPTION	PAGE No.
Parts List	4
Advisory Information	5 - 6
Assembly and Setup	7 - 16
- Install backboard, goal, and swaybrace	
- Install floor anchors and docking trays; dock unit into docking trays	
- Install shot clock/s (if applicable)	
- Remove shipping clamp and check folding operation	
- Set goal height; shim front casters	
- Plumb backboard	
- Locate portable, mark and install locating pins	
- Install padding	
Operating Procedures	17 - 19
Spring Adjustments	20 - 23
Maintenance	24
Guarantee	25
Appendices	26 - 39

WARNING!

READ THESE ASSEMBLY AND OPERATING INSTRUCTIONS IN THEIR ENTIRETY, BEFORE ATTEMPTING TO UNPACK, ASSEMBLE, OR OPERATE THIS PORTABLE BACKSTOP, TO AVOID POSSIBLE INJURIES, OR DAMAGE TO THE EQUIPMENT.



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**1835 Portable Basketball Backstop
Installation, Operation, and Maintenance Manual
Parts List**

PARTS LIST				
ITEM NO.	PART NO.	1835-080	1835-108	DESCRIPTION
		QUANTITY	QUANTITY	
1	208	1	1	GLASS BACKBOARD
2	280180	1	1	GOAL
3	SWAY18000	1	1	SWAY BRACE
4	FRME15000	2	2	DOCKING TRAY
5	PLTE1890 / PLTE1895	4/6	4/6	CASTER SHIMS
6	MISC00077	2	2	LOCATOR PIN
7	ROPE00125	2	2	LOCATOR PIN CABLE

PARTS LIST (PADDING)				
ITEM NO.	PART NO.	1835-080	1835-108	DESCRIPTION
		QUANTITY	QUANTITY	
8	00326XXX	1	1	BACKBOARD PADDING
9	PAD183501CXX	1	1	UPPER MAST PAD
10	PAD183502CXX	1	1	LOWER MAST PAD
11	PAD183503CXX	1	1	HINGED FRONT PAD
12	PAD183504CXX	1	1	LEFT SIDE BASE PAD
13	PAD183505CXX	1	1	RIGHT SIDE BASE PAD
14	PAD183506CXX	1	1	SPRING COVER
15	PAD183508CXX	2	2	FILLER PAD
16	PAD183509CXX	1	1	LEFT SIDE FRONT PAD
17	PAD183510CXX	1	1	RIGHT SIDE FRONT PAD
18	PAD183511CXX	1	1	LEFT SIDE BACK PAD
19	PAD183512CXX	1	1	RIGHT SIDE BACK PAD
20	PAD183513CXX	1	1	TOP OFFSET PAD; LEFT
21	PAD183514CXX	1	1	TOP OFFSET PAD; RIGHT
22	1834CXX	OPTIONAL	OPTIONAL	BOOM PAD

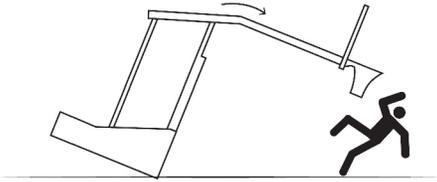
TOOLS REQUIRED:

- | | |
|---------------------------------------|---------------------------|
| 9/16" Wrench | Tape Measure |
| 3/4" Wrench | Level |
| 1-5/8" Wrench | 5/16" Socket (1/4" Drive) |
| 8' Ladder (or taller) | 11/16" Drill Bit |
| Portable Drill With Clutch Adjustment | 10mm Allen Wrench |
| Phillips-Head Driver | |

SAFETY INSTRUCTIONS

- Read all instructions before use to avoid injury.
- Improper use of product can result in serious injury and/or property damage.
- Read all product safety labels.
- Keep this instruction manual for future reference.

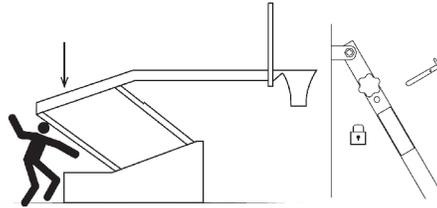
WARNING



- **Unit can tip over if overloaded resulting in severe injury or death.**

- Do not hang, sit, stand, or climb on the goal, backboard, or support structure at any time.
- Ensure the unit is properly anchored before every use. Securing the unit into floor anchors is required before every use and should be done whenever the unit is raised up out of the folded storage position.
- Do not roll the unit unless it is fully lowered in the storage position with the locking pin inserted.
- Ensure the unit is setup by properly trained personnel and used only under supervision. Inspect unit before every use.

WARNING



- **Unit can collapse during use resulting in severe injury or death.**

- Ensure locking pin is fully engaged through the telescoping brace and locked with a padlock before every use.
- Ensure the unit is setup by properly trained personnel before every use.

WARNING



- **Moving parts of unit can crush or cut causing severe injury or death.**

- Keep body parts safely away from frame whenever raising or lowering unit. Stand to the sides of the unit when raising and lowering.
- Raise and lower the unit slowly and maintain control of the unit at all times.
- Ensure the unit is setup only by trained, adult personnel.

WARNING



- **Casters running over bodily parts can cause severe injury.**

- Keep area in front of unit clear whenever unit is being moved.
- Unit is extremely heavy; move unit slowly and maintain control of the unit at all times.
- Unit should only be moved by trained, adult personnel.

- THE OWNER OF THIS EQUIPMENT IS RESPONSIBLE TO ENSURE THAT ALL INDIVIDUALS FOLLOW THESE SAFETY AND OPERATING INSTRUCTIONS TO AVOID INJURIES OR PROPERTY DAMAGE.

CAUTION

BEFORE rolling this portable backstop onto the finished floor, check with the flooring manufacturer to ensure the finished floor will not be damaged due to the weight of this unit. When fully-assembled, this backstop will weigh as much as 3,225 pounds (1,463kg). Optional items (shot clocks, scrolling displays, microphone/camera equipment, etc.) will result in additional weight.

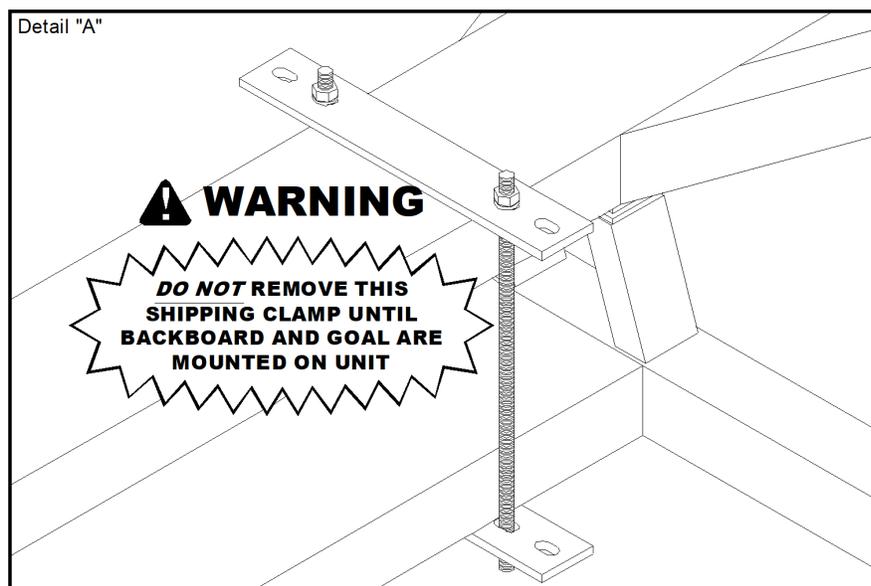
NOTE: It is the responsibility of the customer and floor manufacturer to ensure the floor can properly accommodate the weight of a portable backstop. Backstop's game location on the court as well as path of transport on court should be taken into consideration during the design process.

CAUTION

Check caster wheels for debris as any debris on wheels can cause damage to court floor. When setting up portable, make sure the ceiling height is a minimum of 14'.

WARNING

THE SPRING-ACTIVATED MECHANISM ON THIS BACKSTOP MAY BE EXTREMELY DANGEROUS IF THESE ASSEMBLY INSTRUCTIONS AND OPERATION PROCEDURES ARE NOT FOLLOWED STEP-BY-STEP. UNDER NO CIRCUMSTANCES SHOULD THE SHIPPING CLAMP (SEE DETAIL "A" BELOW) BE REMOVED BEFORE THE BACKBOARD, GOAL AND BACKBOARD SWAY BRACES ARE ASSEMBLED TO THE UNIT. FAILURE TO FOLLOW THIS PROCEDURE COULD RESULT IN PROPERTY DAMAGE, INJURIES, OR EVEN DEATH. A MINIMUM OF TWO, AND PREFERABLY THREE, INDIVIDUALS (TO HOLD AND MOUNT BACKBOARD) ARE REQUIRED, FOR PROPER AND SAFE ASSEMBLY OF THIS UNIT.



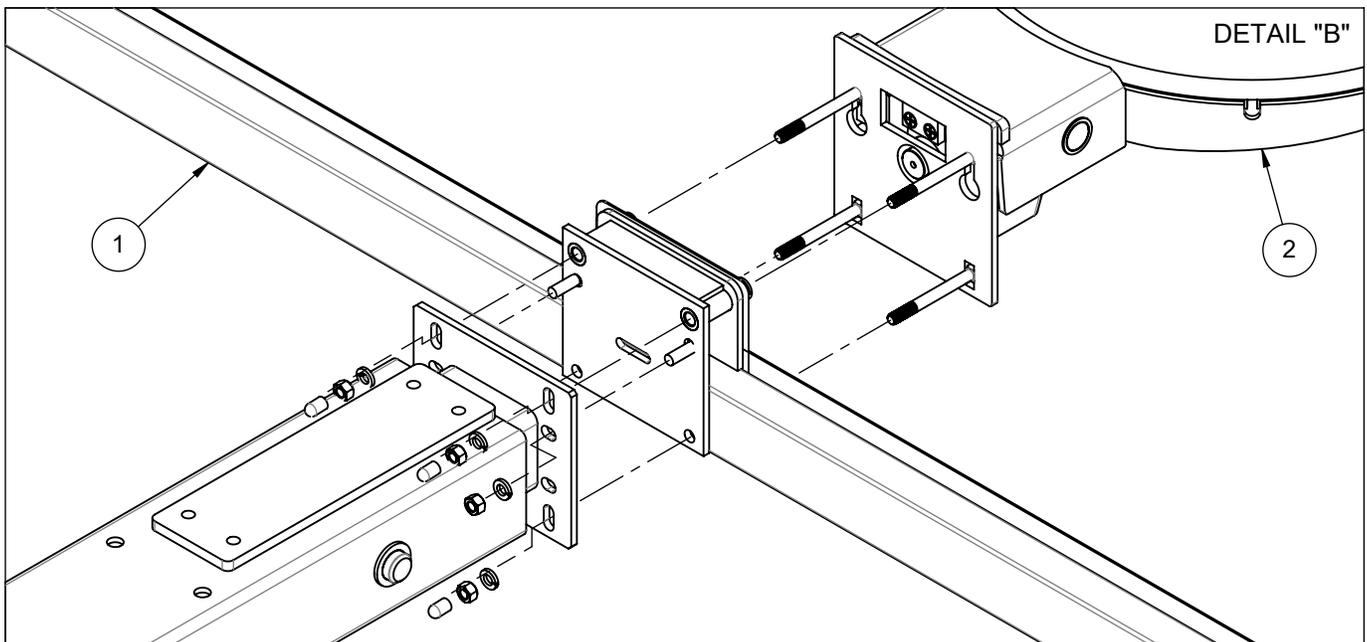
NOTE

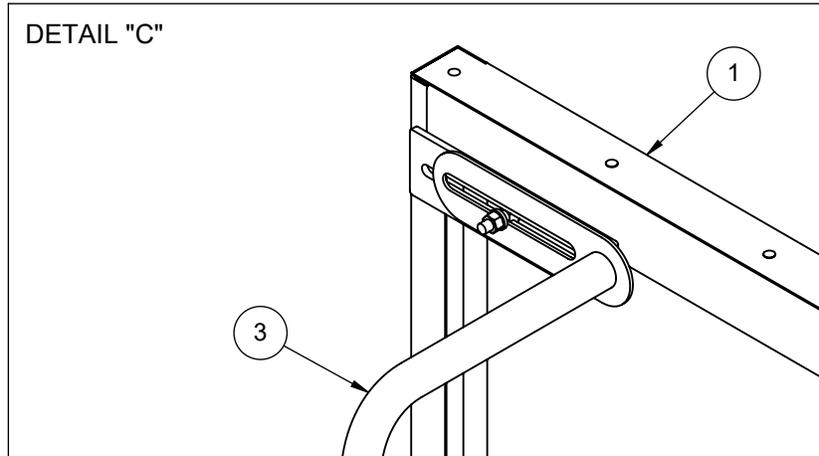
CAUTION - DURING ASSEMBLY OF THIS BACKSTOP, IT IS OF EXTREME IMPORTANCE THAT THE BACKBOARD IS NOT DROPPED, IMPROPERLY TORQUED (BOLTS TIGHTENED BEFORE PLUMBING ALL ATTACHMENT POINTS), OR THE GLASS SECTION BE ALLOWED TO CONTACT OR STRIKE METAL PARTS. THE WARRANTY DOES NOT COVER BREAKAGE DURING INSTALLATION.

1. Unpack and identify all parts (refer to Parts List on page 4).

BACKBOARD ASSEMBLY:

2. Position the unpacked glass backboard (#1) on its cardboard packing carton in front of portable backstop frame assembly (#4). Remove two 3/8" x 1-1/4" long carriage bolts, 3/8" flat washers, 3/8" lock washers, and 3/8" hex nuts from back of glass backboard.
3. It is recommended that at least three adults perform this step. Insert two 3/8" x 1-1/4" carriage bolts through the middle slot on either side of the backboard mounting plate. Carefully lift backboard (#1) and position so that middle backboard mounting slots are in alignment with the corresponding holes on the backstop mounting plate. See Detail "B".
4. While backboard is in this position, secure in place using two (2) 3/8" flat washers, 3/8" lock washers, and 3/8" hex nuts onto each 3/8" x 1-1/4" carriage bolt. Snug tighten only.





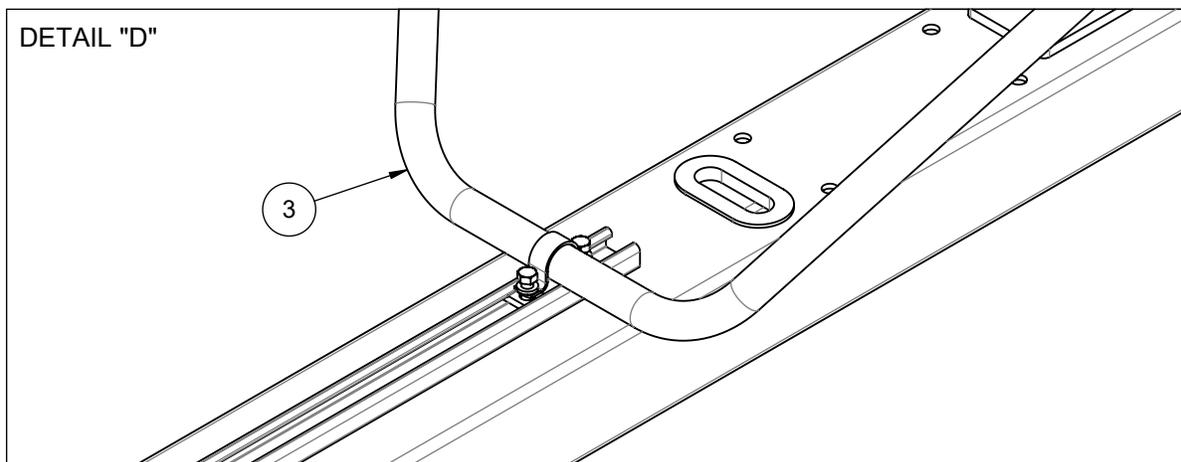
GOAL ASSEMBLY:

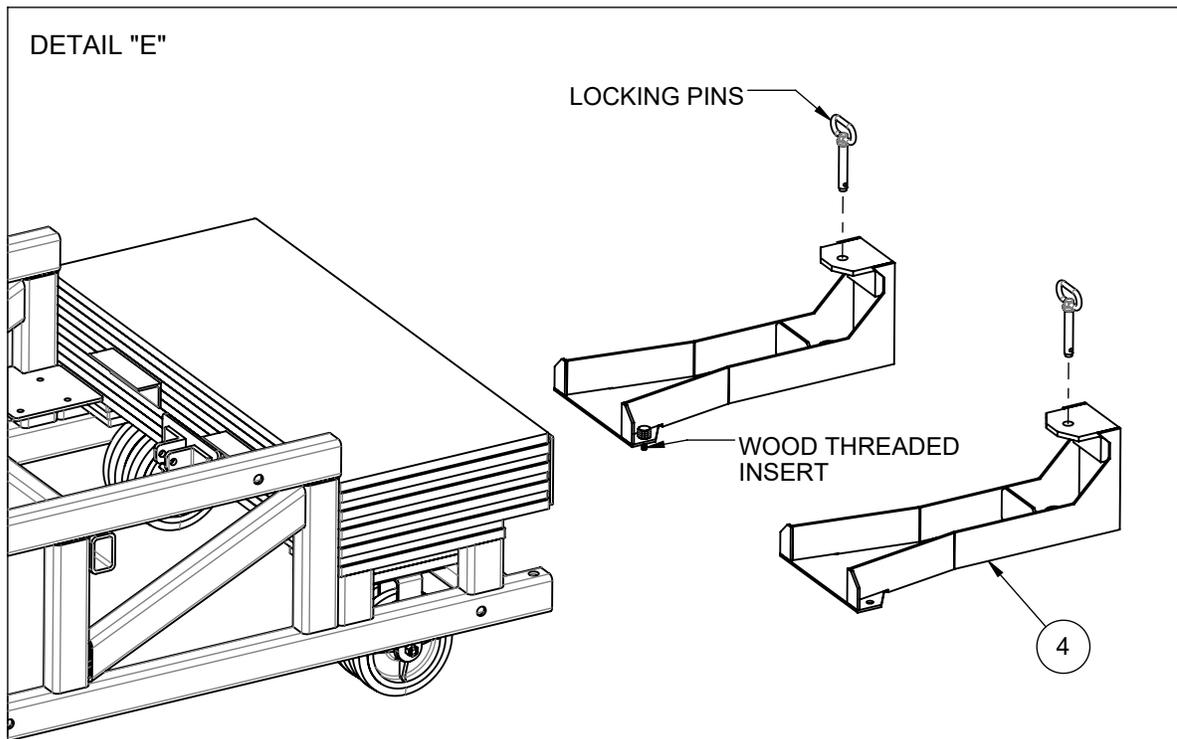
5. You are now ready to mount the goal. Carefully hold the goal (#2) against the face plate of the backboard (#1) and insert the four (4) 3/8" x 3-1/2" lg. carriage bolts through the goal, backboard, and the backstop mounting plate (refer back to Detail "B"). Backboard may have to be shifted slightly for proper alignment. Secure with four (4) 3/8" flat washers, 3/8" lock washers, and 3/8" hex nuts on backside of mounting plate; snug tighten only. Place rubber cap on back of each carriage bolt. See Detail "B".

SWAY BRACE ASSEMBLY:

6. Attach the formed swaybrace (#3) to the slotted plates in the upper corners of the glass backboard using two (2) 3/8" x 1-1/4" long carriage bolts, 3/8" flat washers, 3/8" lock washers, and 3/8" hex nuts. Finger tighten only (see Detail "C").

7. Attach back of swaybrace (#3) to the horizontal extension assembly (see Detail "D") using one (1) u-clamp, two (2) 3/8" lock washers, and two (2) 3/8"-16 unistrut nuts. Finger tighten only.





Floor Anchoring/Base Locating:

8. Install the docking trays (#4) per the layout shown in Appendix B on page #28. First, install the floor anchors located below the locking pin of each tray; refer to the unique installation instructions provided with the floor anchors. Next, install the wood threaded inserts provided with the docking tray hardware. This is done by marking and drilling a hole in the floor using an 11/16" drill bit, then threading the wood insert into this hole using a 10mm allen wrench. Lastly, place the docking trays over the anchors and attach them to the floor anchors and wood inserts using the threaded hand wheels provided. Once the docking trays are installed to the court, remove the locking pins (if they are inserted into the docking trays), roll the backstop into the docking trays, and secure the portable to the docking trays using the 5/8" diameter, 3" lg. locking pin provided. Refer to Detail "E" above.

WARNING - If the intention to use shot clocks was discussed with the manufacturer at the time of purchase, the springs may have been adjusted to account for specified shot clock weight and shot clocks must be installed before the shipping clamps are removed. Failure to install the specified shot clocks before removing the shipping clamps may result in personal injury and damage to the product.

REMOVE SHIPPING CLAMP AT THIS TIME

9. Keeping all individuals clear from beneath the unit (front and back), from the side carefully loosen threaded rods and remove shipping clamps (see Detail "A") at this time.



READ THROUGH AND CAREFULLY FOLLOW THE INSTRUCTIONS ON THE NEXT TWO PAGES REGARDING RAISING AND LOWERING THE UNIT, SETTING GOAL HEIGHT, AND INSTALLING CASTER SHIM PLATES. FAILURE TO FOLLOW THESE INSTRUCTIONS WILL RESULT IN DAMAGE TO THE UNIT.

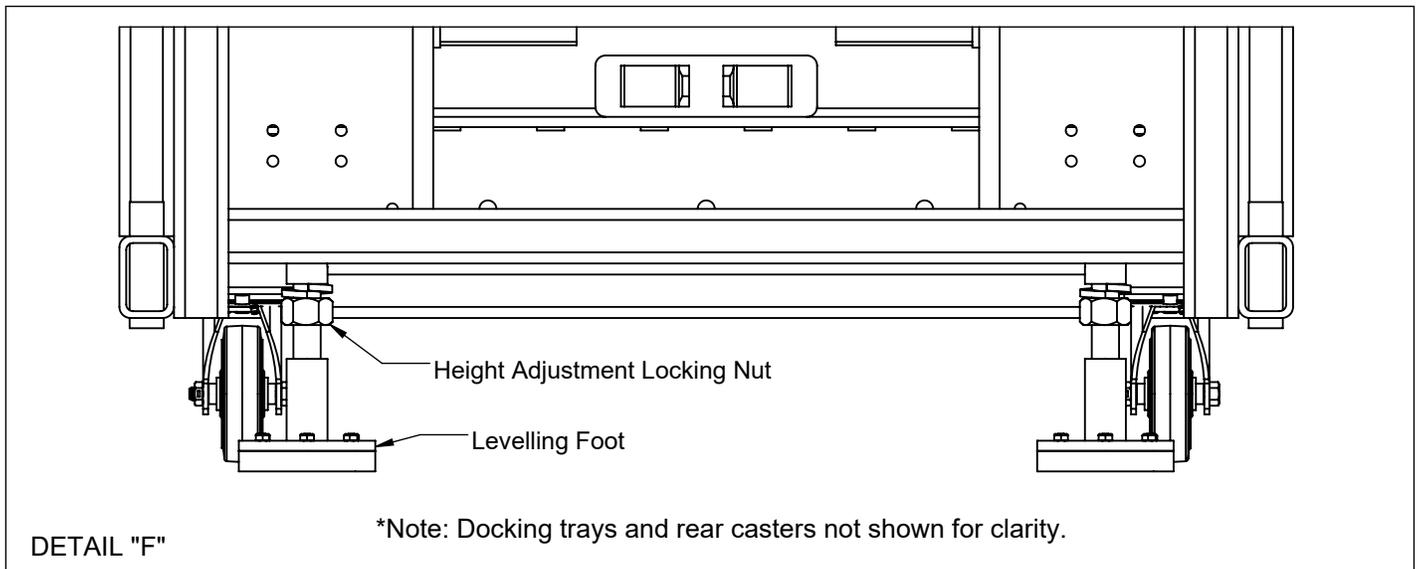
Raising/Lowering Unit:

11. Remove the padlock and locking pin from the telescoping brace; also loosen the pressure lock handwheel slightly. Keeping all individuals clear from beneath unit (front and back), stand to one side of the rear of the base. Grasp the handle on the rear vertical support and slowly lift unit into playing position.

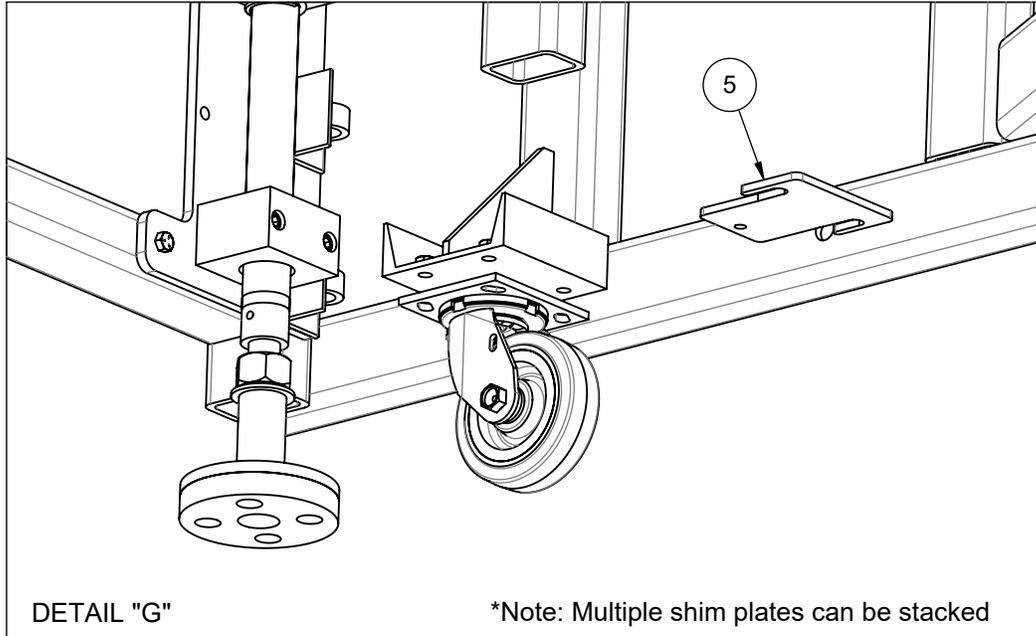
CAUTION - WHEN RAISING THE UNIT INTO THE PLAYING POSITION OR LOWERING THE UNIT INTO THE STORAGE POSITION, OPERATE UNIT SLOWLY TO AVOID TIPPING OR DAMAGE TO THE STRUCTURE. IT IS RECOMMENDED THAT AT LEAST 2 ADULTS RAISE AND LOWER THE UNIT. **NEVER MOVE THE UNIT FROM PLACE TO PLACE UNLESS THE BACKSTOP IS IN THE STORAGE POSITION WITH LOCKING PIN AND PADLOCK ENGAGED!**

Setting the Goal Height:

12. Raise the unit to the playing position and align the face of the backboard parallel to and 4'-0" in from the inside edge of the 2" wide court line.



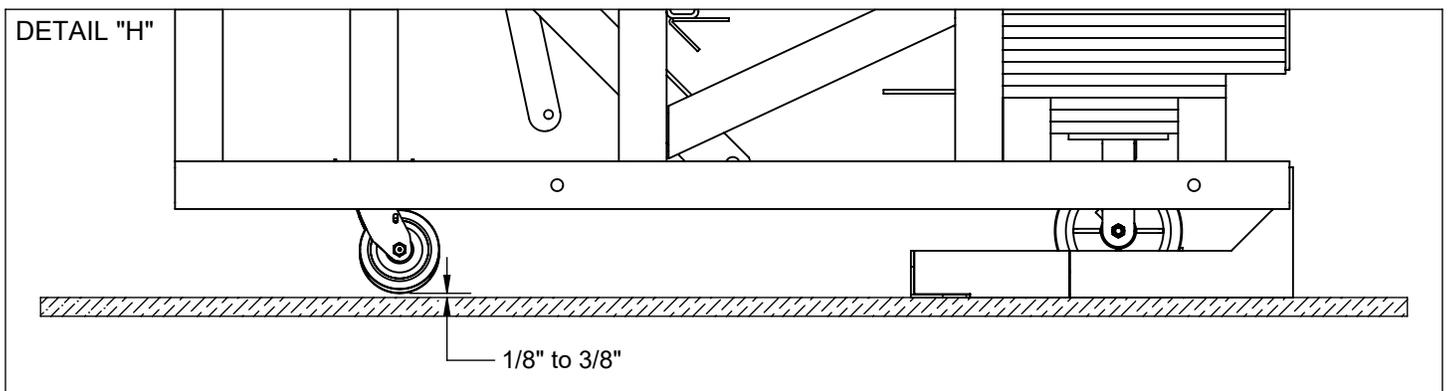
13. Upon raising the unit, the auto-lift foot pad will lower toward or onto the court. Raise the unit fully, insert the locking pin, and check the goal height. If the goal is not at 10', lower the unit, raise the front base pad, and make adjustments to the levelling feet by spinning them clockwise or counterclockwise to raise/lower the levelling feet. After adjustments are made, raise the unit and recheck the goal height; repeat adjustment process as necessary. Once the desired height is reached, lock the height setting in place by tightening down the height adjustment lock nut on each levelling foot assembly.

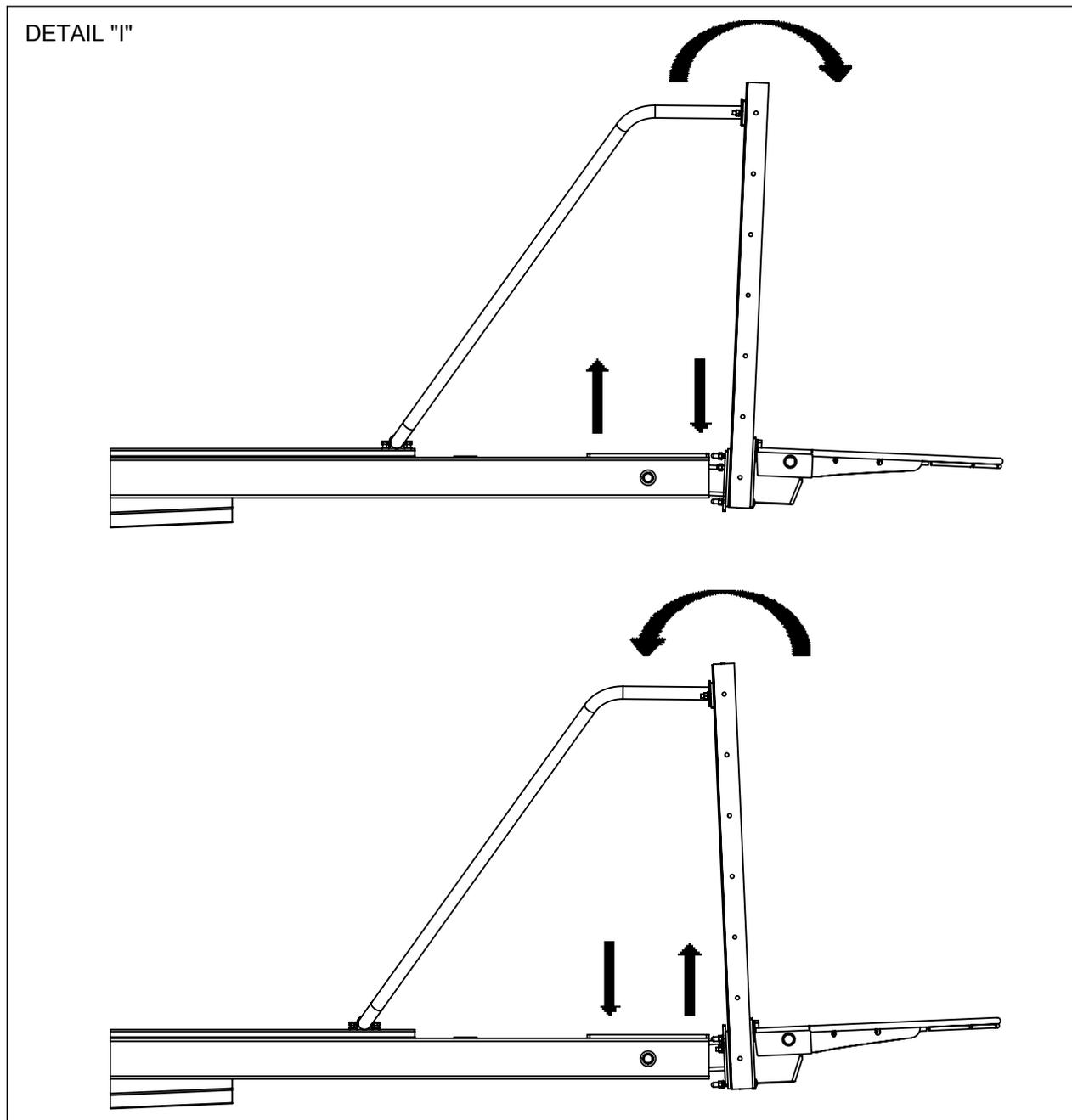


14. During the goal height setting process, if the front casters are raised off the court surface, install the included shim plates (#5) such that the distance between the front casters and court surface is between 1/8" to 3/8"; see Detail "G" and Detail "H". This will help ensure that raising the unit does not become difficult. **WARNING:** If the front casters are not shimmed to the proper height, damage to the auto-lift foot pad assembly WILL occur.

15. Using a ladder, lay a level vertically on the face of the glass backboard. Properly plumb and level the backboard and goal following the backboard auto-plumb procedure as described on the next page.

16. Recheck the goal height after plumbing and levelling the backboard and goal. Make any further height adjustments as-needed. Once complete, each time the unit is raised to the playing position the goal should consistently be at a height of 10ft from the court floor. Installing locator pins (#6) (see page #14) will ensure the backboard and goal are always in the same position on the court floor. The backstop may now be lowered to the storage position as-needed.

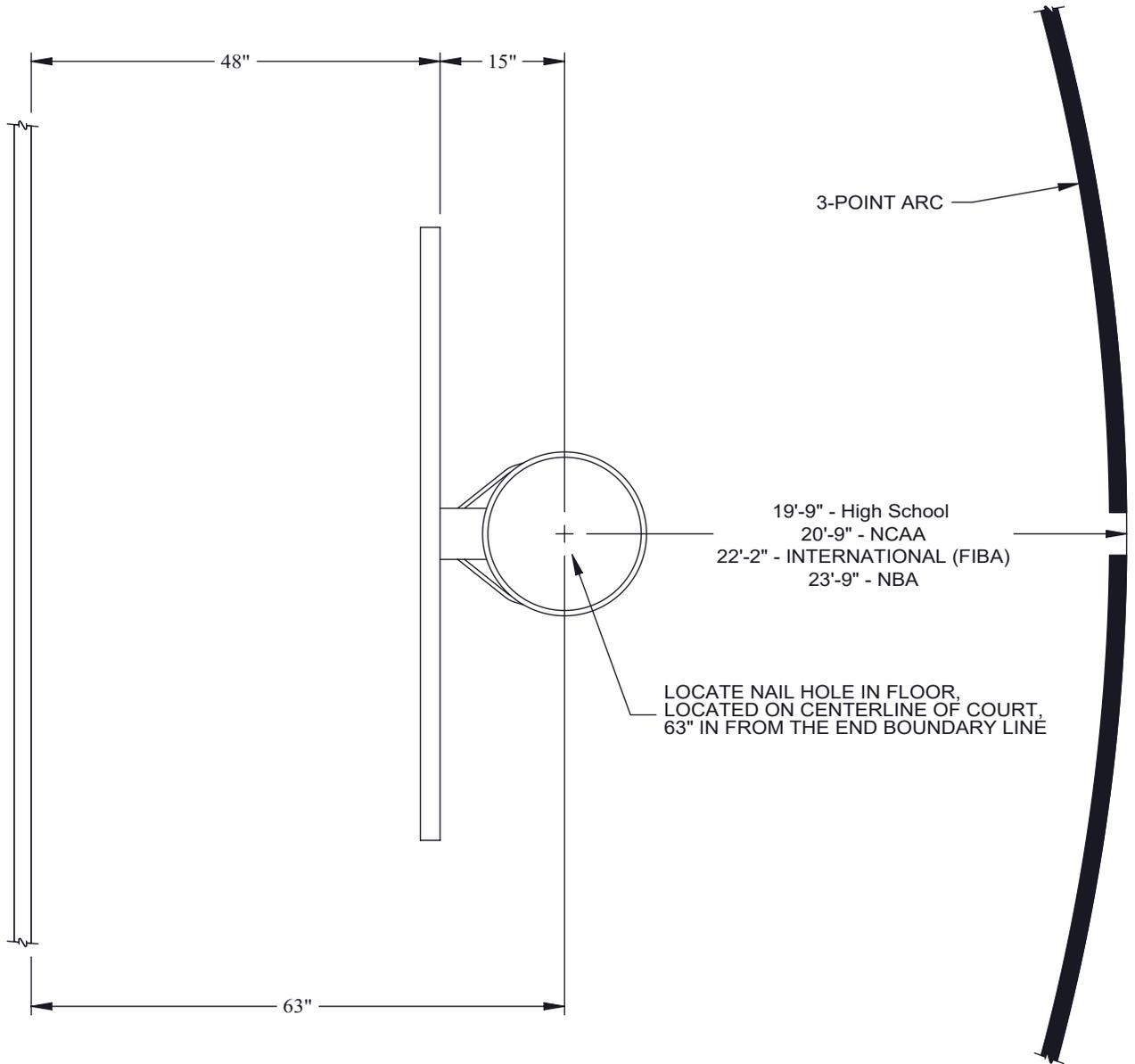




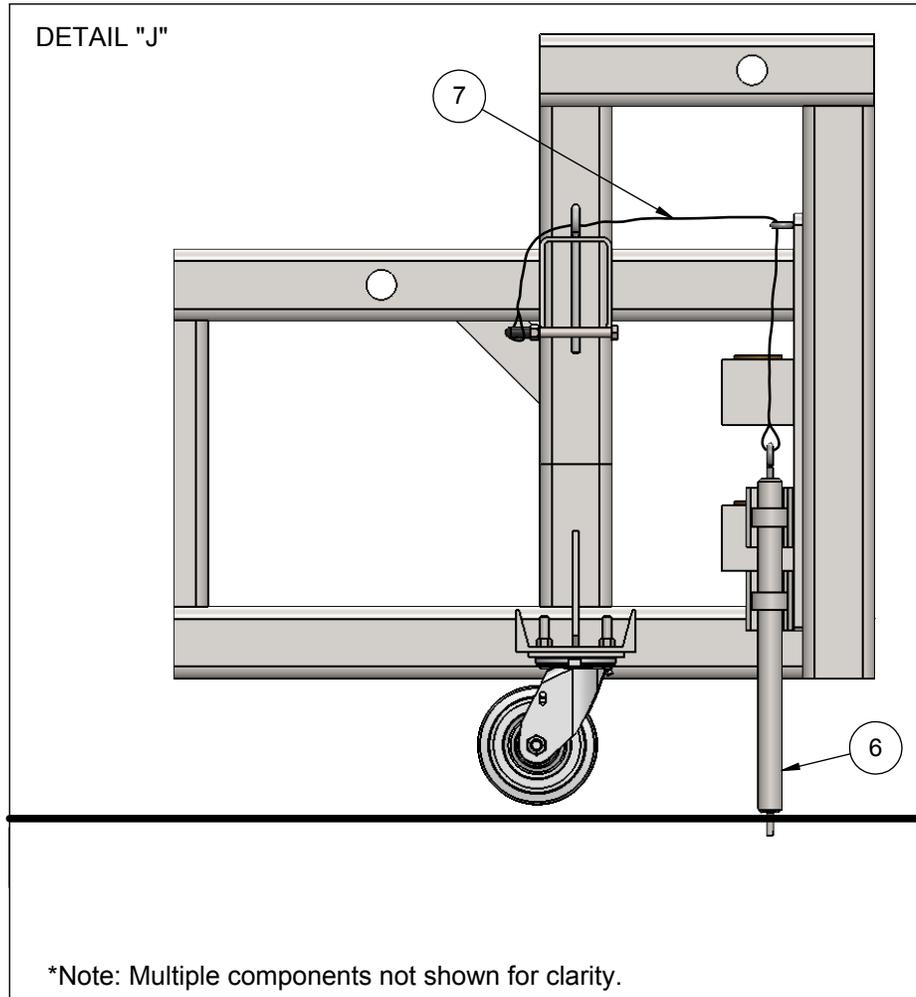
BACKBOARD PLUMB-ADJUSTMENT FEATURE:

With the swaybrace hardware loosened, the backboard can be tilted forward and backboard by adjusting the four (4) 1/2"-13 hex head bolts that are located just behind the backboard in the horizontal extension arm. Place a level on the face of the backboard and adjust the backboard into plumb. Next, place the level across the top of the backboard and level the backboard; tighten all swaybrace hardware and backboard mounting hardware. Repeat process to level the goal and tighten down all goal hardware securely. This should be done with the unit in the upright, playing position as part of setting the goal height. Note that plumbing the backboard and goal may affect the height of the goal; height setting may need to be readjusted referring back to page 10.

LOCATING PORTABLE BACKSTOPS ON PLAYING FLOOR

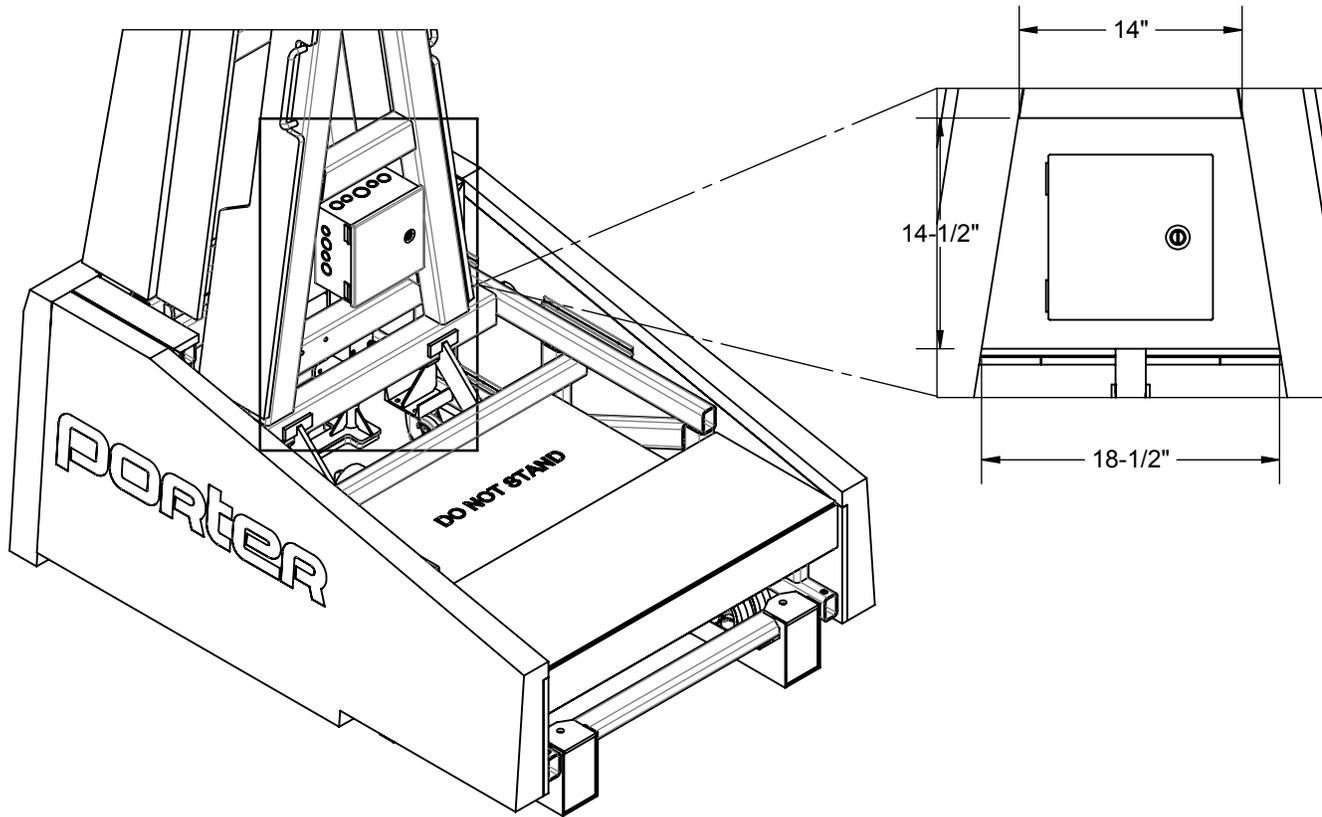


TO PROPERLY LOCATE A PORTABLE UNIT ON THE PLAYING FLOOR, DROP A PLUMB LINE FROM THE EXACT CENTER OF THE GOAL AND POSITION UNIT TO ALIGN WITH NAIL HOLE ON FLOOR. SHIFT BASE FROM SIDE TO SIDE AS REQUIRED TO CENTER ON COURT.



17. With the unit securely pinned into the docking trays, raise the unit into the upright playing position. Make sure the backboard and goal are level, the goal is 10ft above the court floor, and the goal is properly located in regards to the court lines. Insert the locator pins (#6) into bushings attached to the auto-lift foot pad mounting plates as shown in Detail "I" above. Mark the court floor where the taper pins of the locator pins rest on the court floor. Remove the locator pins, lower the backstop, and roll it clear from the markings. Using an 11/16" drill bit, drill holes straight down into the court floor to a minimum depth of 1-1/2". Using a 10mm allen key, screw in the wood inserts provided with the locator pins. Reposition the goal into the docking trays and pin them, raise the backstop into the upright playing position, and replace the locator pins. Pivot the front of the base until the locator pins drop into the wood inserts. Lastly, install the locator pin cables(#7) by threading the cable eye bolt into the top of the locator pin. Route the cable as shown in Detail "J" to easily raise and lower the locator pin by pulling the cable. Once the padding is installed, the unit is now ready for competition.

DETAIL "K"



Electrical Junction Box Mount:

A thin steel plate has been included on the rear vertical support for easy installation of electrical junction boxes. The dimensions of the plate are shown above in Detail "K". The plate is made of thin, 3/16" thick steel which can be drilled to mount the junction box directly or mount a bracket for tool-free attachment of a junction box. Junction boxes up to 6" thick can be mounted to this plate, noting that any brackets or cables used in combination with the junction box will reduce this limit.

⚠ WARNING

ENSURE ALL ELECTRICAL CABLES PROTRUDING FROM THE JUNCTION BOX ARE FREE FROM PINCH POINTS THROUGHOUT THE TRAVEL OF THE RAISING/LOWERING CYCLE OF THE BACKSTOP. IF CABLES ARE LEFT ATTACHED TO THE JUNCTION BOX, DURING EACH SETUP CHECK FOR KINKED OR FRAYED CABLES AND REPLACE AS-NEEDED.

Padding:

Install all frame padding per the padding assembly instructions found in Appendix C on pages 29-39. Ensure all padding is properly secured and in-place before any use of the backstop.

Backboard Padding:

Install backboard padding (#8) to the backboard frame per the installation instructions packed with the backboard padding.

Final Inspection:

Touch up any scratches that may have occurred during shipping or assembly with touch-up paint.

The assembly of this backstop is now complete.

IMPORTANT - UPON FINAL SET-UP OF THIS BACKSTOP, SHOW THE INDIVIDUAL(S) WHO WILL OPERATE THIS BACKSTOP HOW TO PROPERLY OPERATE THIS BACKSTOP. READ THE WARNING LABELS TO THEM, EXPLAINING THE IMPORTANCE OF FOLLOWING SAFE OPERATING PROCEDURES. THIS INSTRUCTION MANUAL MUST BE GIVEN TO AN OFFICIAL IN CHARGE OF THE FACILITY FOR FUTURE REFERENCE.

THIS BACKSTOP MUST BE OPERATED ONLY BY AUTHORIZED PERSONNEL FAMILIAR WITH THE SAFE OPERATING INSTRUCTIONS AND PROCEDURES. THIS EQUIPMENT SHOULD BE INSPECTED BEFORE EACH USE FOR WEAR, LOOSE FITTINGS, DAMAGE AND PROPER STABILITY. CONSULT A TRAINED SERVICE TECHNICIAN OR THE FACTORY WHEN IN DOUBT.

WARNING

SINCE THE FOLDING ACTION OF THIS BACKSTOP IS SPRING-ASSISTED, A POTENTIAL HAZARD EXISTS IF PROPER SAFETY PRECAUTIONS ARE NOT FOLLOWED. WHEN REMOVING OR REPLACING THE BACKBOARD ON THIS BACKSTOP, THE TELESCOPING BRACE MUST BE PINNED AND LOCKED IN POSITION TO PREVENT THE BACKSTOP FROM SUDDENLY SPRINGING TO THE UP POSITION. THIS COULD RESULT IN SEVERE INJURIES OR EVEN DEATH. CONSULT THE MANUFACTURER WHEN IN DOUBT.

OPERATING PROCEDURES FOR No. 1835080 and 1835108 PORTABLE BACKSTOPS

TO RAISE UNIT TO PLAYING POSITION

1. Roll backstop into the docking trays while the unit is in the folded and locked position; place docking tray pins into docking trays and through base frame thus anchoring unit to the court floor.
2. Pivot the front of the unit until the locator pins drop into place; ensure they are fully seated into the floor.
3. Loosen (turn counterclockwise) the pressure lock handwheel on the telescoping height adjustment brace.
4. Remove the padlock and through-pin in the telescoping height adjustment brace tube.
5. Clear floor area around the unit from spectators. Stand to one side of the unit and carefully and slowly lift upward on handle located near rear of unit.
6. Slowly raise unit to desired height setting (8', 9' or 10').
7. Replace through-pin and padlock; tighten handwheel in telescoping brace securely.

TO LOWER UNIT FOR STORAGE

1. Remove docking tray pins.
2. Loosen the pressure lock handwheel on the telescoping height adjustment brace.
3. Remove the padlock and pin from telescoping brace while grasping the side handle on the rear vertical support.
4. Stand to one side and slowly lower the unit to the storage position.
5. Replace through pin and padlock in telescoping brace.
6. Tighten handwheel on telescoping brace.
7. Roll unit to storage location.

Note: Docking trays can be removed from floor when not in-use. If docking trays were removed, replace docking trays before moving portables into position before next use.

OPERATING PROCEDURES FOR No. 1835080M and 1835108M PORTABLE BACKSTOPS

TO RAISE UNIT TO PLAYING POSITION

1. Roll backstop into the docking trays while the unit is in the folded and locked position; place docking tray pins into docking trays and through base frame thus anchoring unit to the court floor.
2. Pivot the front of the unit until the locator pins drop into place; ensure they are fully seated into the floor.
3. Plug power extension cord into the power socket of the control box (see Detail "L").
4. Plug the control pendant into the pendant socket of the control box (see Detail "L").
5. Loosen (turn counterclockwise) the pressure lock handwheel on the telescoping height adjustment brace.
6. Remove the padlock and through-pin in the telescoping height adjustment brace tube; place the through-pin into the through-pin socket of the control box (see Detail "L").

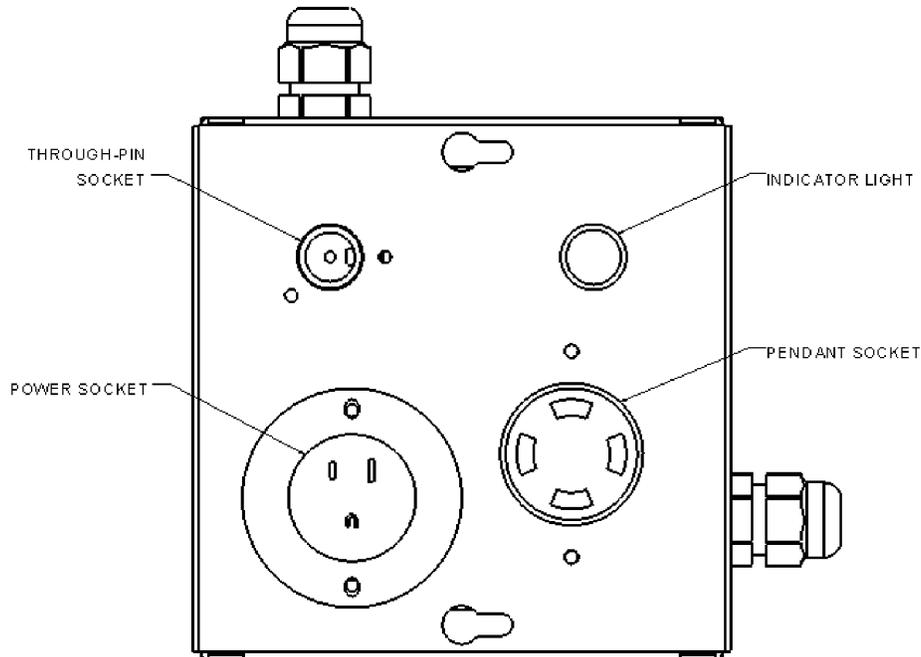
NOTE: When the through-pin is dropped into the socket in the control box, the red indicator light should light up to indicate that it is safe to raise and lower the unit via the motor. Otherwise, the unit will not operate.

7. Clear floor area around the unit from spectators. Stand to one side of the unit and raise unit upward using control pendant.
8. Raise unit to desired height setting (8', 9' or 10').
9. Replace through-pin and padlock; tighten handwheel in telescoping brace securely.
10. Unplug pendant and power extension cord from control box.

TO LOWER UNIT FOR STORAGE

1. Remove docking tray pins.
2. Plug power extension cord into the power socket of the control box (see Detail "L").
3. Plug the control pendant into the pendant socket of the control box (see Detail "L").

OPERATING PROCEDURES FOR No. 1835080 and 1835108 PORTABLE BACKSTOPS



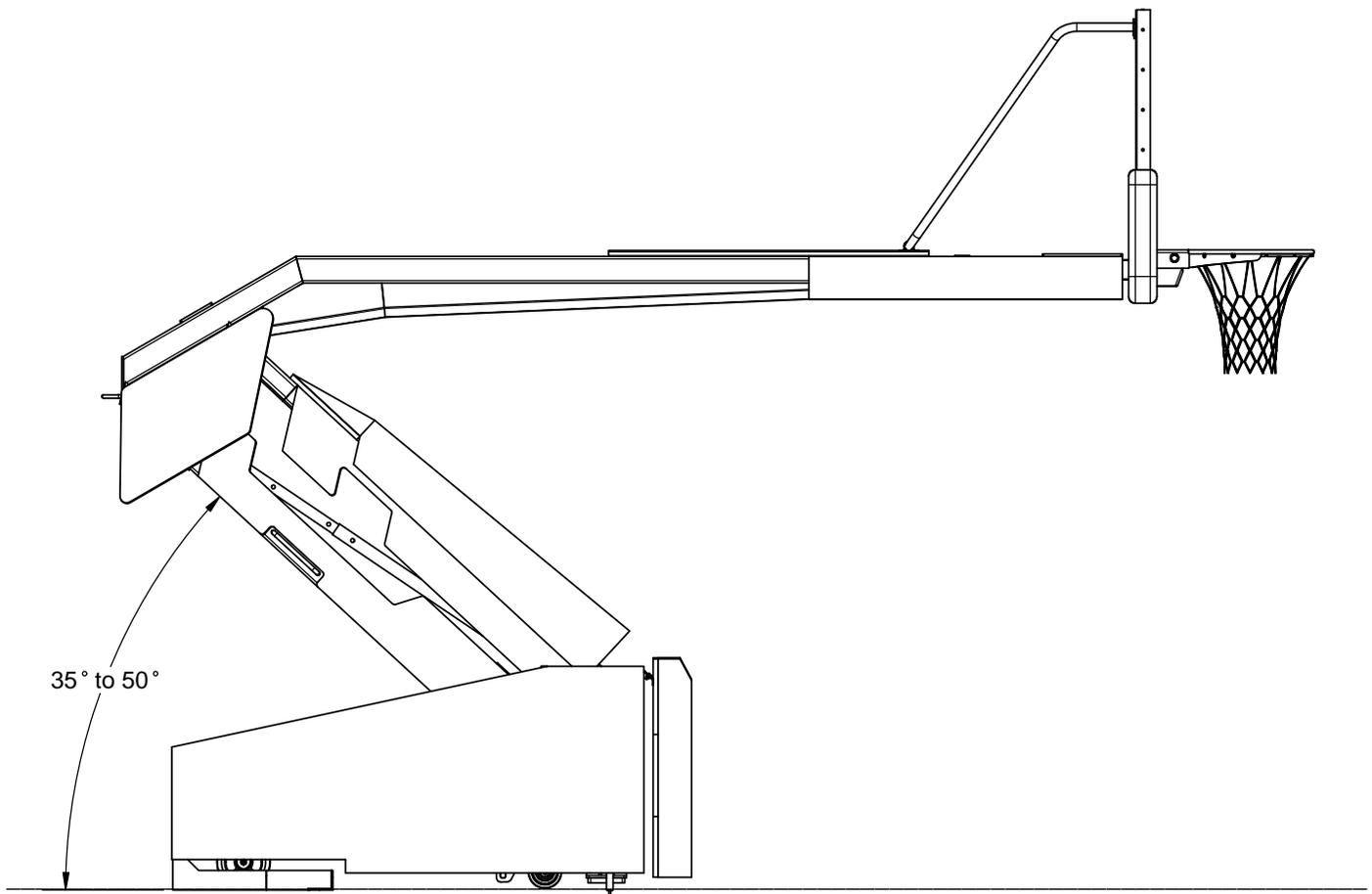
4. Loosen the pressure lock handwheel on the telescoping height adjustment brace.
5. Remove the padlock and pin from telescoping brace while grasping the side handle on the rear vertical support; place the through-pin into the through-pin socket of the control box (see Detail "L").
6. Clear floor area around the unit from spectators. Stand to one side of the unit and lower unit downward using control pendant.
7. Lower unit to storage height.
8. Replace through pin and padlock in telescoping brace.
9. Unplug pendant and power extension cord from control box.
10. Roll unit to storage location.

Note: Docking trays can be removed from floor when not in-use. If docking trays were removed, replace docking trays before moving portables into position before next use.

The tension springs on this backstop have been pre-adjusted at the factory for proper raising and lowering of the backboard. However, should it be necessary to adjust the springs after years of use, or with the addition of a shot clock, the following adjustment procedures should be followed. As a safety precaution, it is advisable to check operation of backstop with two individuals (one standing on each side of the backstop) in the event of unexpected movement, or undue forces exerted by the backstop support mechanism. Refer to detail on page 16 for adjustment of tension springs.

WARNING - When making adjustment, the backstop must be in the up and locked position. Do not turn the adjustment nuts (C) more than two turns before trying operation of backstop, to avoid erratic or sudden movement, which may result in bodily injury or damage to the backstop. When checking folding action, keep all individuals clear of backstop and stand to one side while grasping handle.

Spring setting – For proper operation of this backstop, it is highly recommended that the spring tension be adjusted so backstop will be held in a static position with the vertical supports at an approximate 35° to 50° angle from the horizontal position. See detail below.



For proper operation, the backstop must be manually pushed to the full up (playing) position, or the full down (storage) position. Operate backstop slowly to prevent damage or injury.

DIFFICULTY IN RAISING UNIT TO PLAYING POSITION (REFER TO DETAIL "L")

1. Loosen (turn clockwise) the two jam nuts (A) approximately six (6) turns.
2. Loosen (turn counterclockwise) the two jam nuts (B) approximately one (1) turn.
3. Tighten (turn clockwise) jam nuts (C) no more than two (2) turns.
4. Carefully raise unit to the playing position and check static position (refer to Detail "L"). Should it be necessary to tighten springs further, carefully raise unit and lock in the up position before proceeding.
5. Repeat Steps No. 3 & 4 until folding action of backstop functions properly.
6. Re-tighten jam nuts A & B securely to lock jam nut C in position after final adjustment has been made.

DIFFICULTY IN LOWERING UNIT TO STORAGE POSITION

1. Loosen (turn clockwise) the two jam nuts (A) approximately one (1) turn.
2. Loosen (turn counterclockwise) the two jam nuts (B) approximately six (6) turns.
3. Loosen (turn counterclockwise) the two jam nuts (C) no more than two (2) turns.
4. Carefully raise and lower unit and check the static position (refer to Detail "L"). Should it be necessary to loosen springs further, carefully raise unit and lock in the up position before proceeding.
5. Repeat Steps No. 3 & 4 until backstop functions properly.
6. Re-tighten jam nuts A & B securely to lock jam nut C in position after final adjustments have been made.

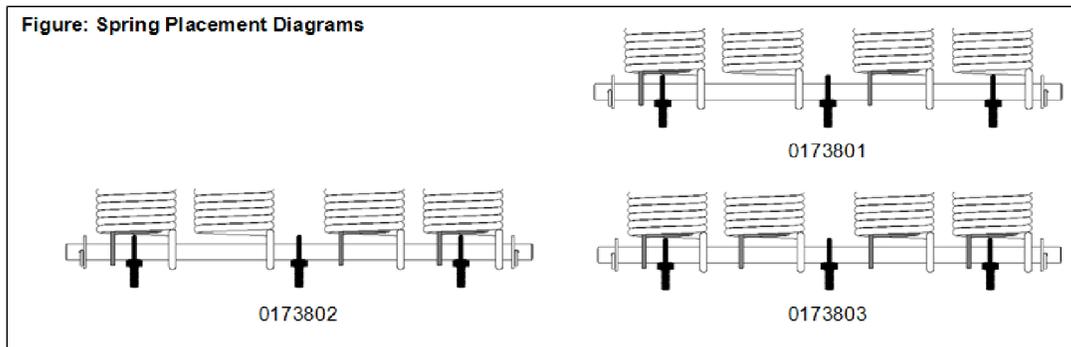
ADDITION OR REMOVAL OF SPRINGS

If springs need to be added or removed from the unit, the spring carriage must be disconnected from the base frame.

1. Raise the unit to the upright position and lock the unit securely in place.
2. If a motor is attached, disconnect the motor from the motor mounting arm which is connected to the rear mast weldment.
3. Place a protective barrier (i.e. cardboard, towel, etc.) under the spring carriage between the castors; this will help to protect the floor from damage.
4. Loosen (turn counterclockwise) the two jam nuts (B) to the end of the thread of the tension stud.
5. Loosen (turn counterclockwise) the two jam nuts (C) until they are flush against the jam nuts (C).
6. Remove the nuts and lock washers which attach the eye bolts to the back plate of the frame to detach the rear spring bar and lower it to the floor.
7. Remove each of the tension stud pins and the cotter pins to detach the forward spring bar and lower it to the floor.
8. Remove the hair pin cotter pins and large washers on each end of the rear spring bar.
9. Remove the tension studs from the forward spring bar by first removing the jam nuts (B's and C's), lock washers, and washers.

(ADDITION OR REMOVAL OF SPRINGS CONTINUED):

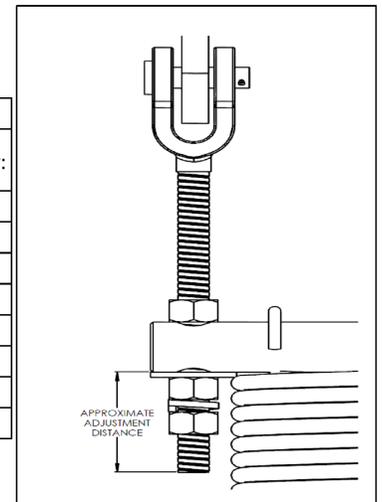
10. Add or remove springs as necessary. When placing springs and eye bolts onto the rear spring bar, do so in accordance with the following figure depending on how many of each spring you have (eye bolts are pictured in black, nested springs are gray, outer tension springs are white):



11. Once the springs and eye bolts are placed back on the spring bars, reattach the spring carriage in reverse order of the removal process.

12. After the spring carriage is reattached the tension in the springs needs to be set. Start by tightening the jam nuts according to the following tables for a starting position:

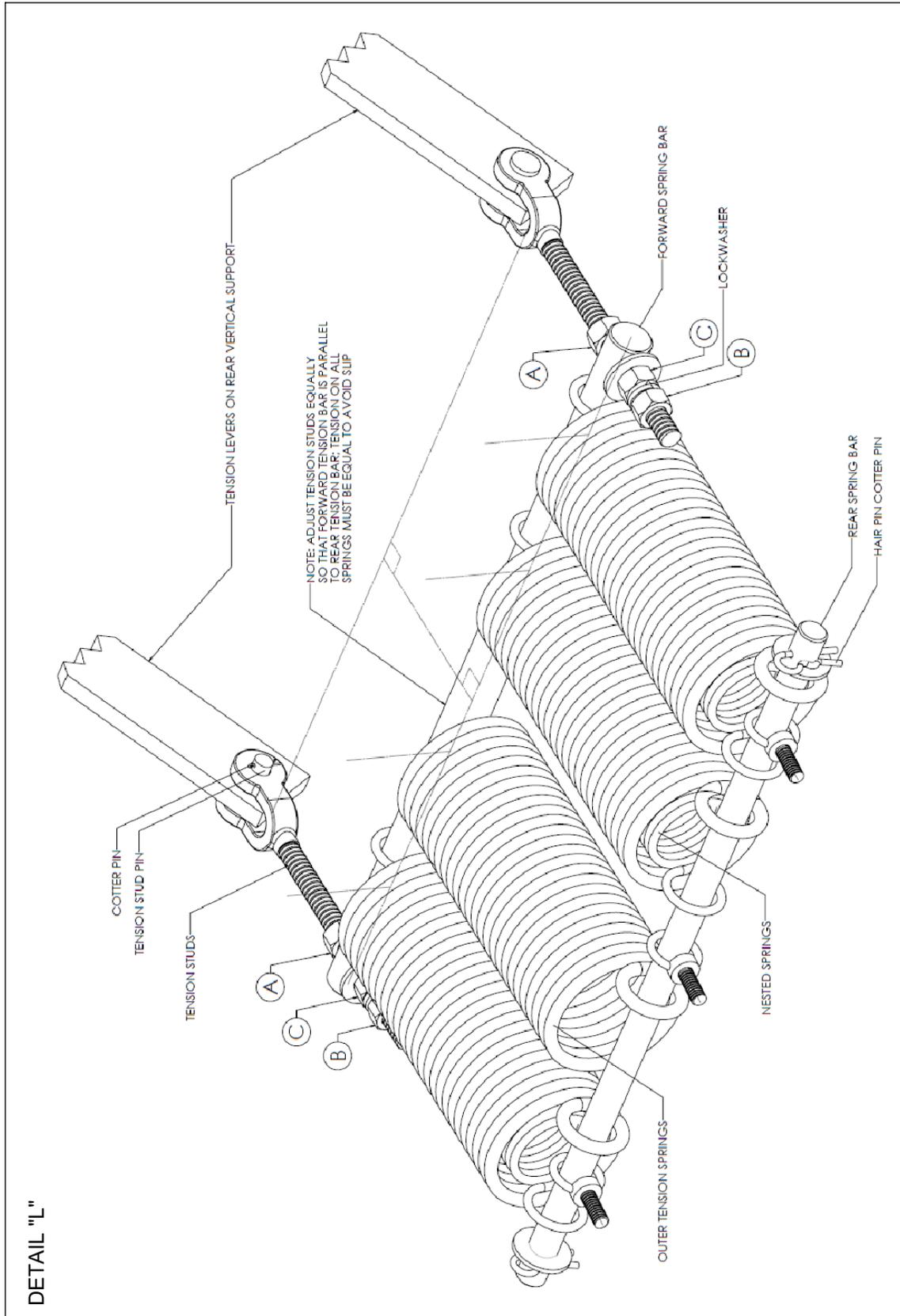
1835-800 (8' Boom)			1835-108 (10'8" Boom)		
Shot Clock Weight:	Apprx. Adjustment Distance (in):	Spring Kit #:	Shot Clock Weight:	Apprx. Adjustment Distance (in):	Sprint Kit #:
No Shot Clock	3.5	Stock	No Shot Clock	6.0	Stock
No Shot Clock	3.5	0173801	No Shot Clock	6.0	0173801
25	3.5	0173802	25	5.5	0173802
50	4.5	0173802	50	4.5	0173803
75	5.5	0173802	75	5.5	0173803
100	4.5	0173803	100	6.5	0173803
125	5.5	0173803	125	7.0	0173803
150	6.5	0173803	<i>Shot clocks over 125lbs overload the unit</i>		



13. Now that the initial spring tension has been set, attempt to lower and raise the unit to determine if additional adjustments are necessary.

WARNING - Use caution when attempting to lower and raise the unit after following this procedure. It is recommended that a minimum of two people be on sight when performing this action.

14. If further adjustment is necessary, follow the procedures on page 21 for either "DIFFICULTY IN RAISING UNIT TO PLAYING POSITION" or "DIFFICULTY IN LOWERING UNIT TO PLAYING POSITION" respectively.



MAINTENANCE CHECKLIST

Perform a complete inspection of this portable backstop at least quarterly (every 3 months).

- Check entire backstop for structural integrity. Examine welds for soundness. Inspect all fittings and hardware - replace as required.
- Check all padding on portable backstop and on backboard.
- Check that docking trays and anchors are functioning properly and structurally sound.
- If a shot clock is installed, check that all hardware is properly tightened and support structure is structurally sound.

BASKETBALL BACKSTOP INSPECTION CHECKLIST					
Welds, fittings, and hardware:					
Backstop #1	Backstop #2	Backstop #3	Backstop #4	Backstop #5	Backstop #6
Padding:					
Backstop #1	Backstop #2	Backstop #3	Backstop #4	Backstop #5	Backstop #6
Docking trays and floor anchors:					
Backstop #1	Backstop #2	Backstop #3	Backstop #4	Backstop #5	Backstop #6
Shot clock supports and ancillary devices:					
Backstop #1	Backstop #2	Backstop #3	Backstop #4	Backstop #5	Backstop #6

GUARANTEE

All materials and workmanship of basic materials are guaranteed to be free and clear of defects. Defective material will be repaired or replaced, at our option, subsequent to complete information being received by us concerning the nature of the defect, for a period of ten years from the date of completion of the assembly/installation.

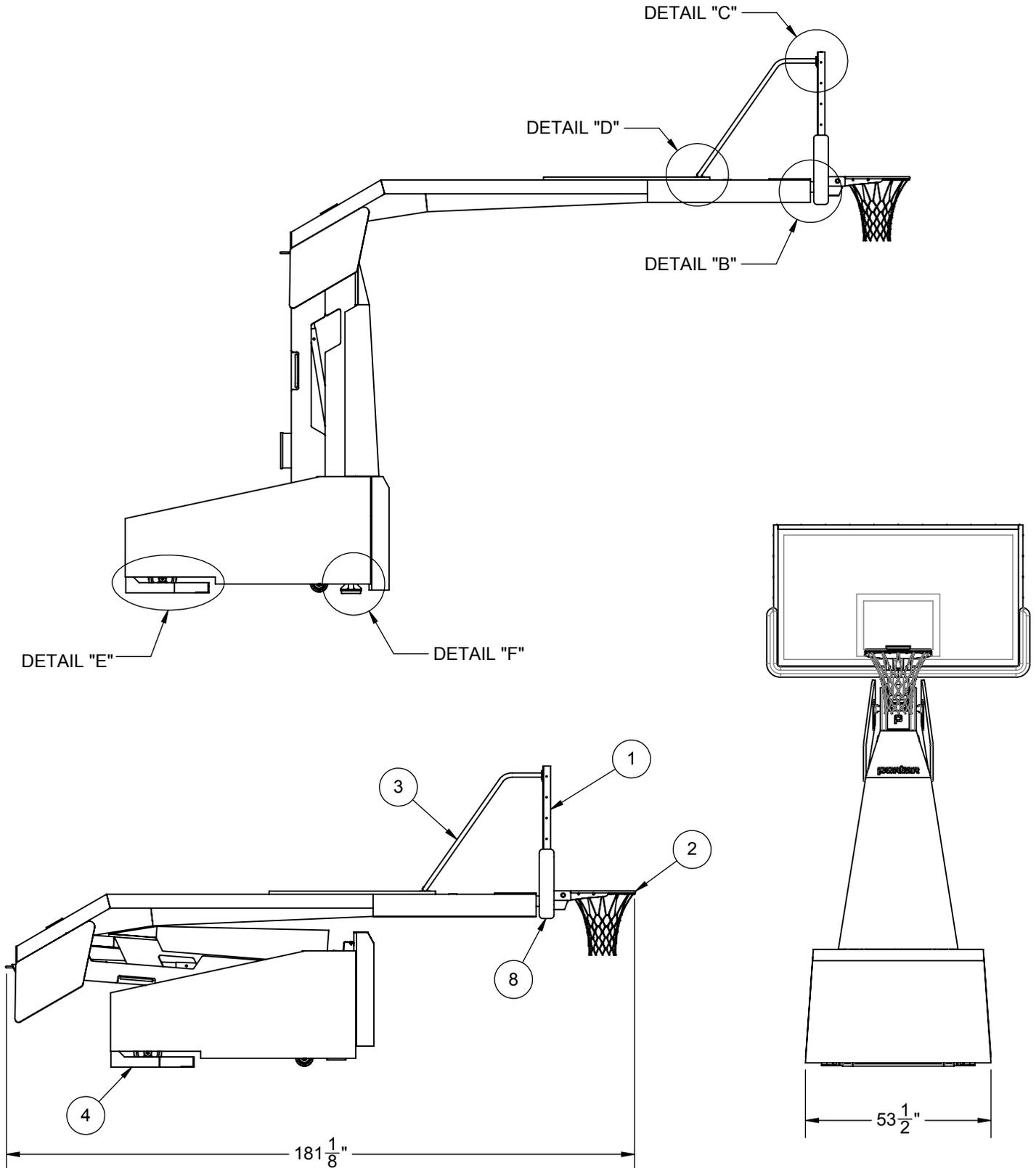
NAME OF DEALER:	NAME OF INSTALLATION COMPANY
PHONE #:	PHONE #:

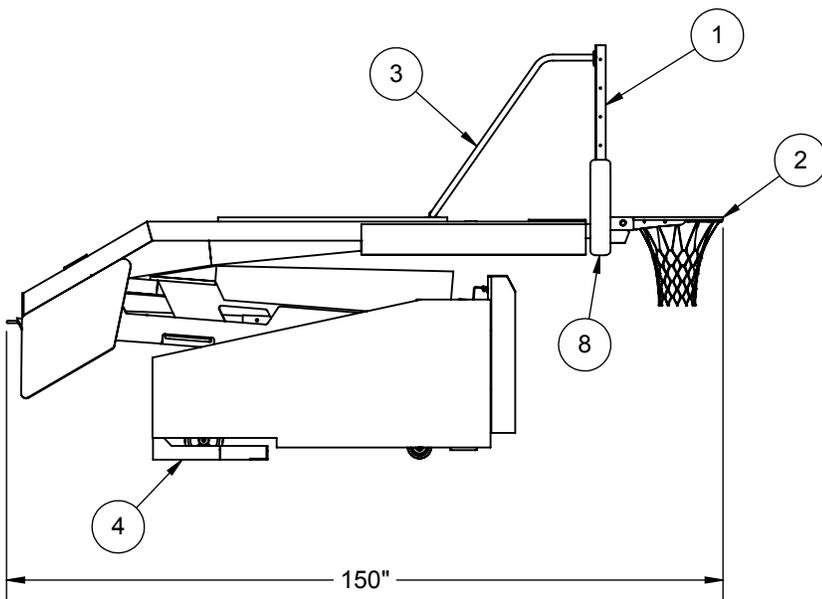
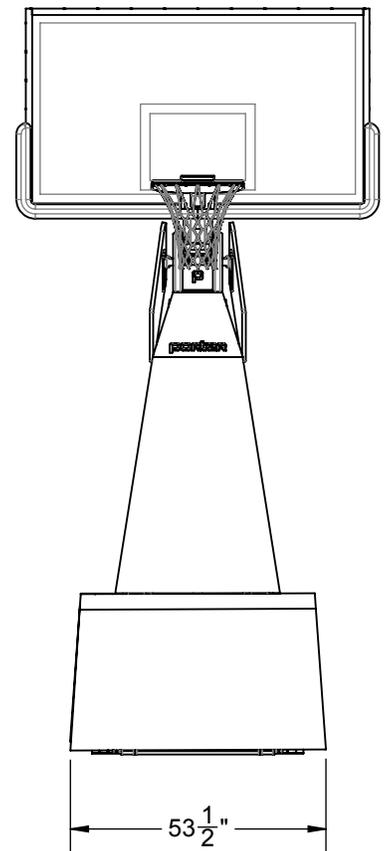
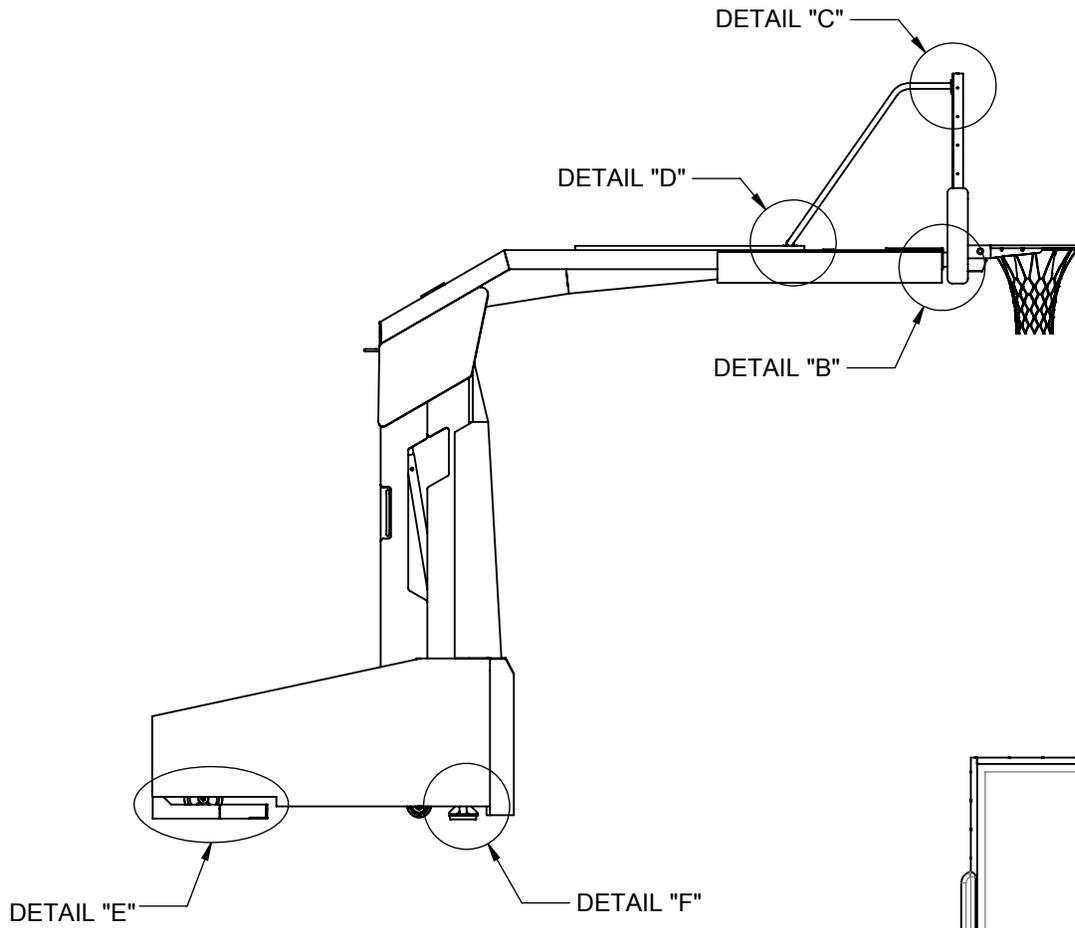
Porter Order Number: _____

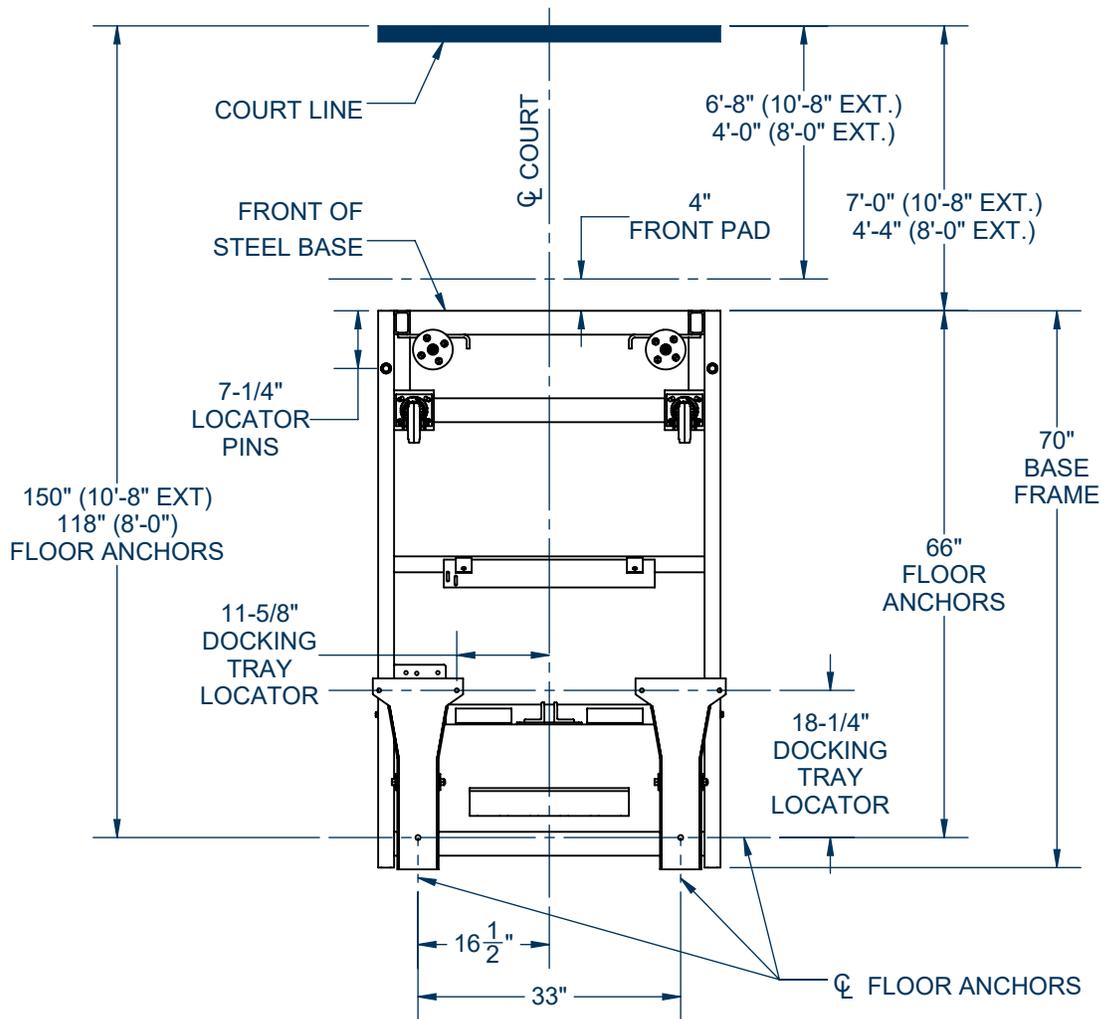
Date of Completion: _____

Care has been taken to fabricate and install this equipment to provide years of safe, satisfactory use and trouble-free service. The key to satisfactory service from this equipment is proper operation and care. Should any malfunctions occur, please notify your supervisor and call your local Porter Dealer or Representative.

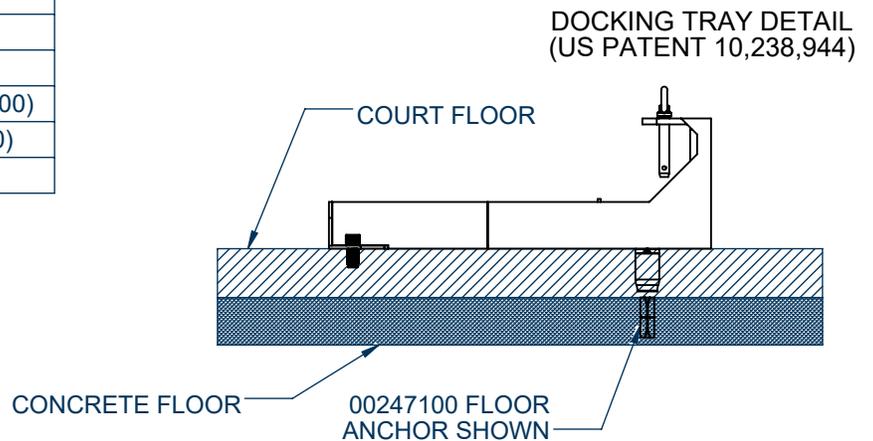
 **WARNING:** This product can expose you to Urethane, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

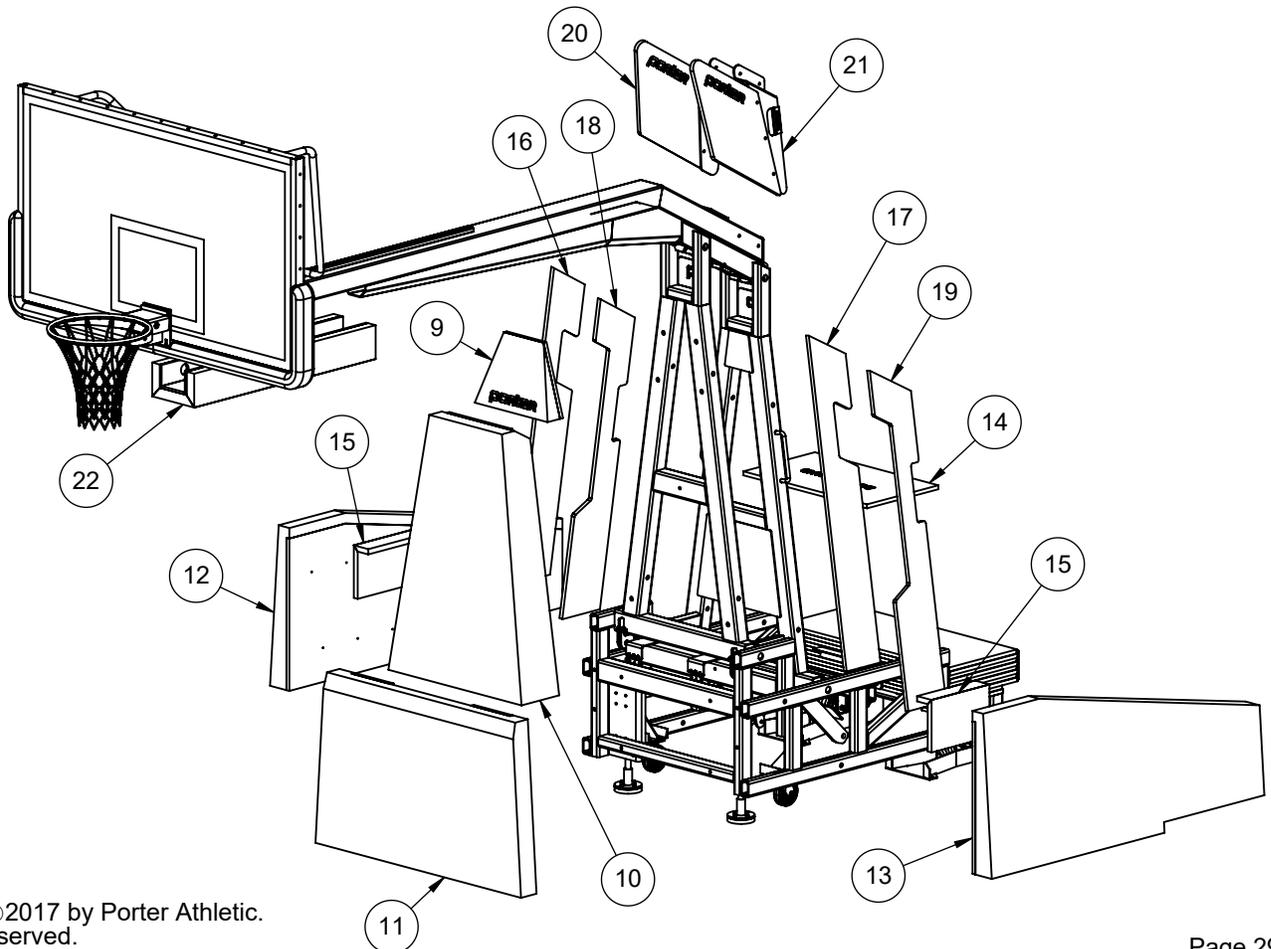
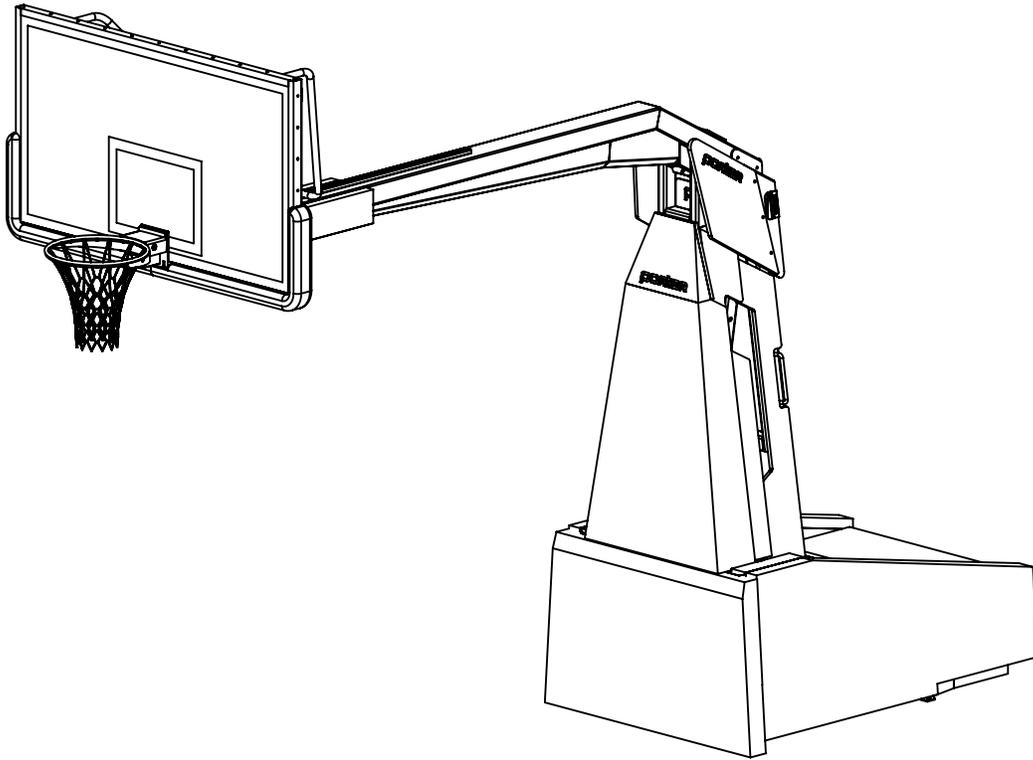




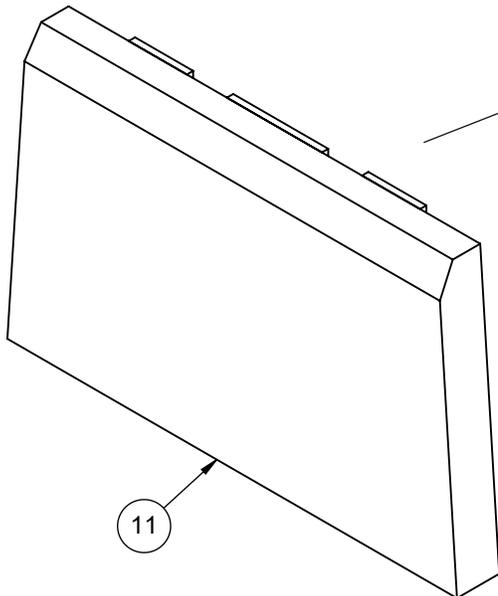
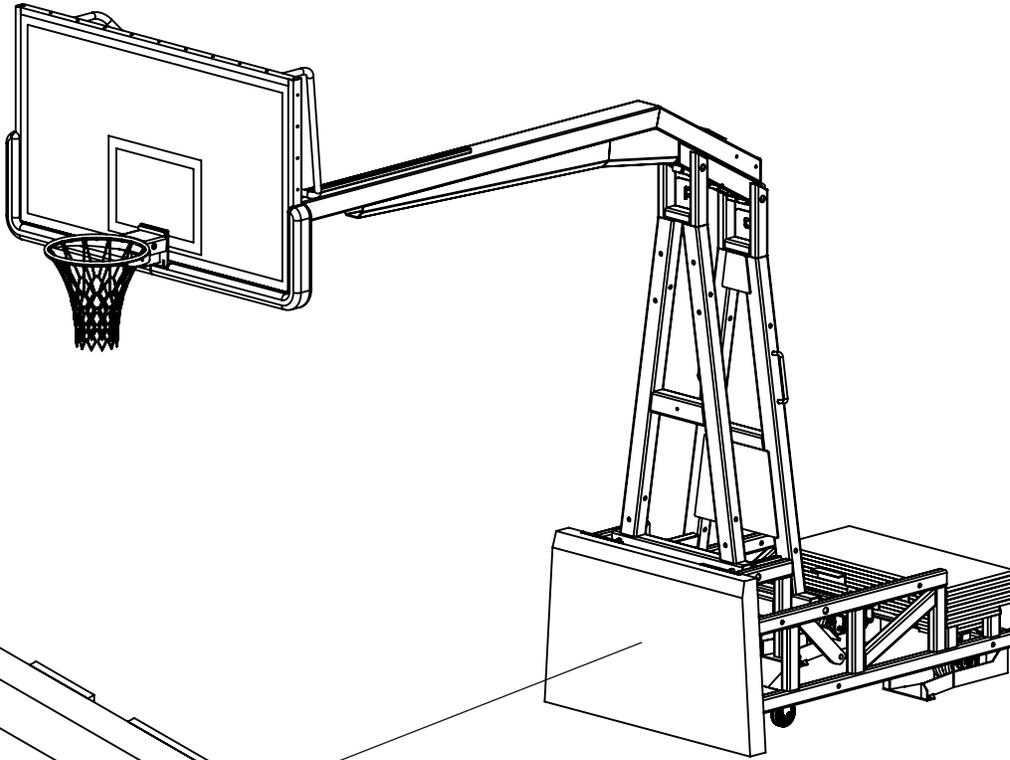


FLOOR ANCHOR KIT (SPECIFY)	
FITG00480	EXPANSION-TYPE (00247-100)
FITG00481	SLEEPER-TYPE (00244-000)
FITG00482	PORTABLE FLOOR-TYPE (00242-900)
FITG00483	THIN CONCRETE-TYPE (00242-100)
FITG00484	CAST-IN-SLAB TYPE (00247-000)

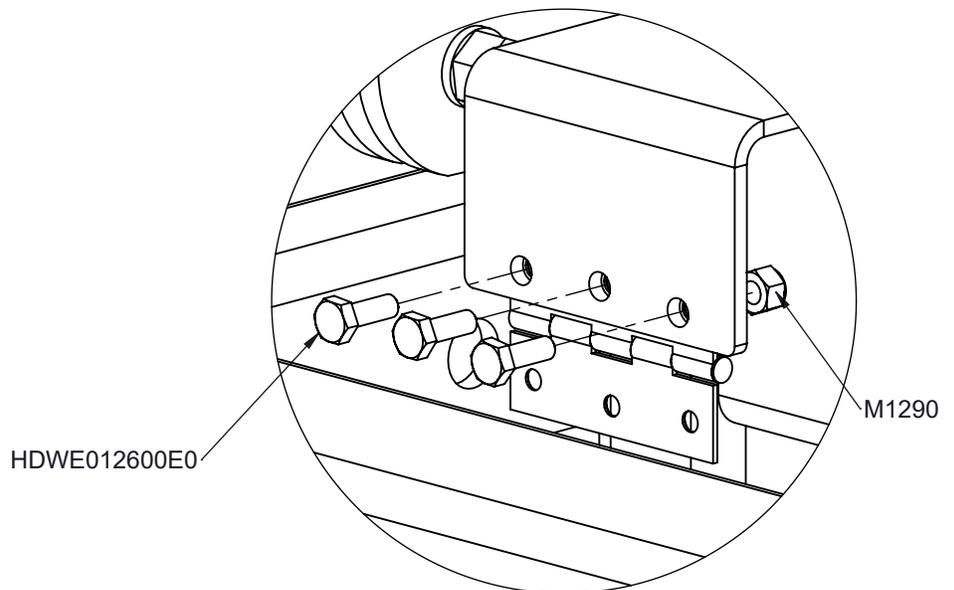




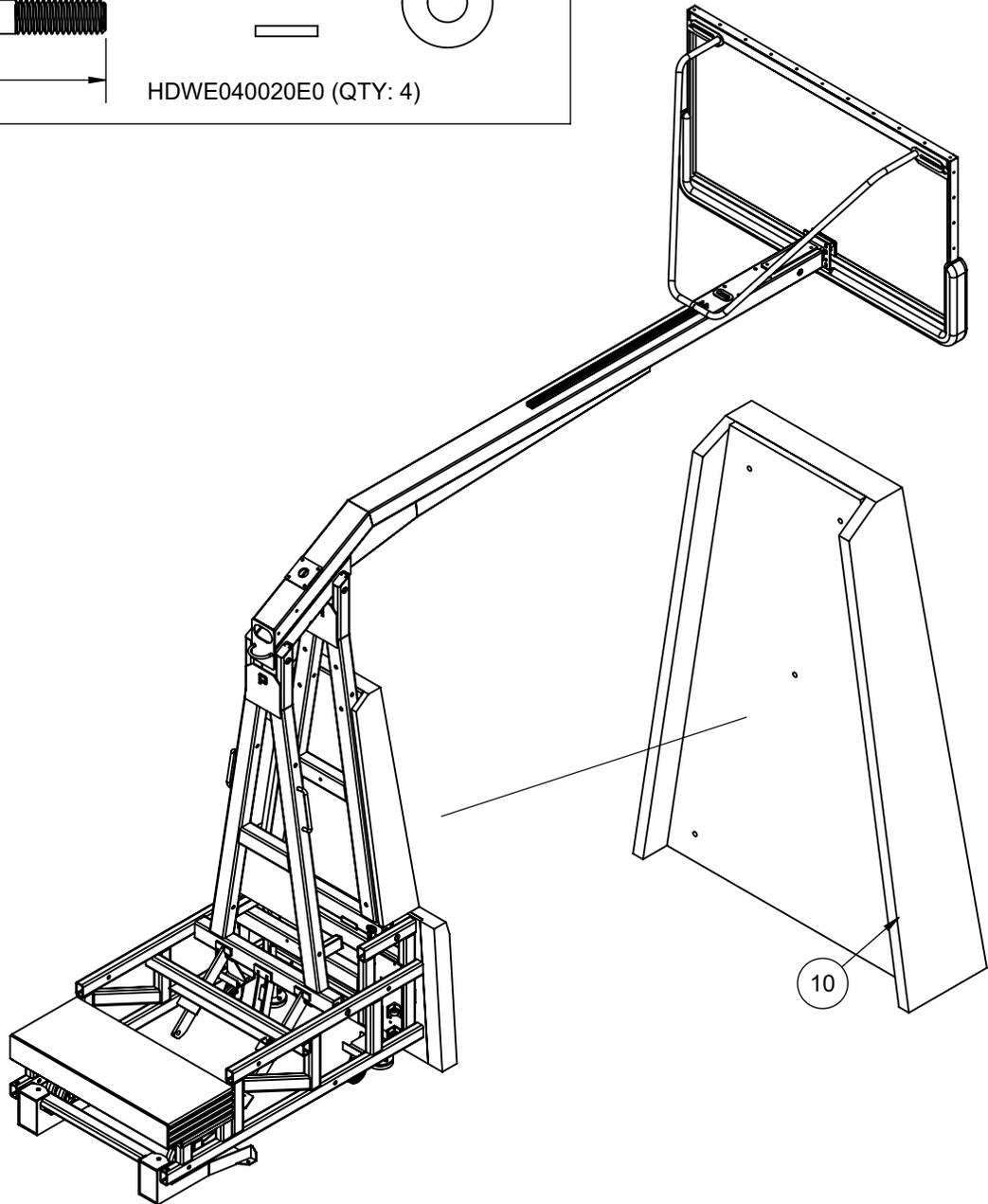
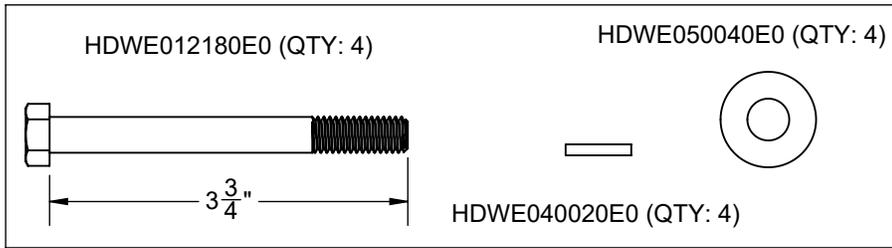
Install the front pad using the attached hinge and the
1/4-20 x 3/4" lg bolts and nylock nuts.



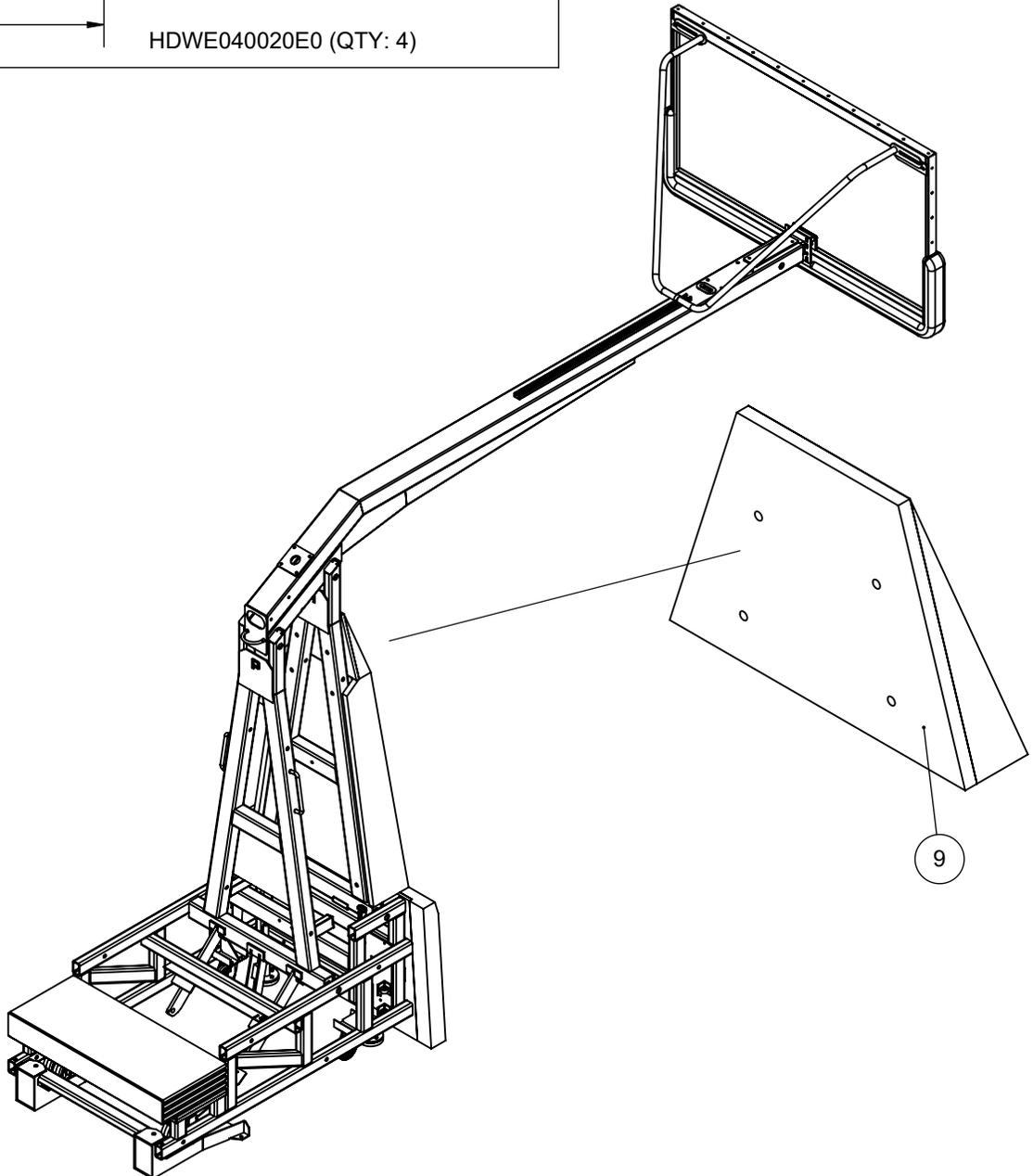
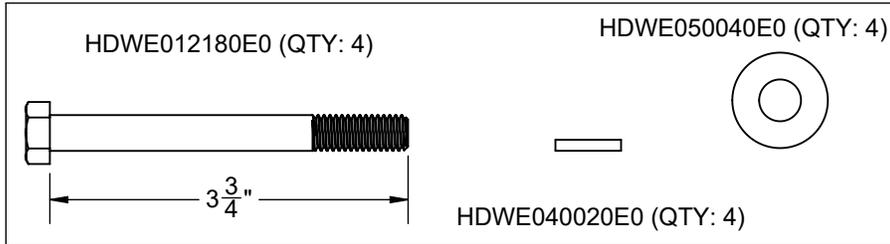
NOTE: INSTALL PAD BRACKET BEHIND/BELOW SHEET METAL ATTACHMENT BRACKET OF THE FRAME AS SHOWN BELOW.



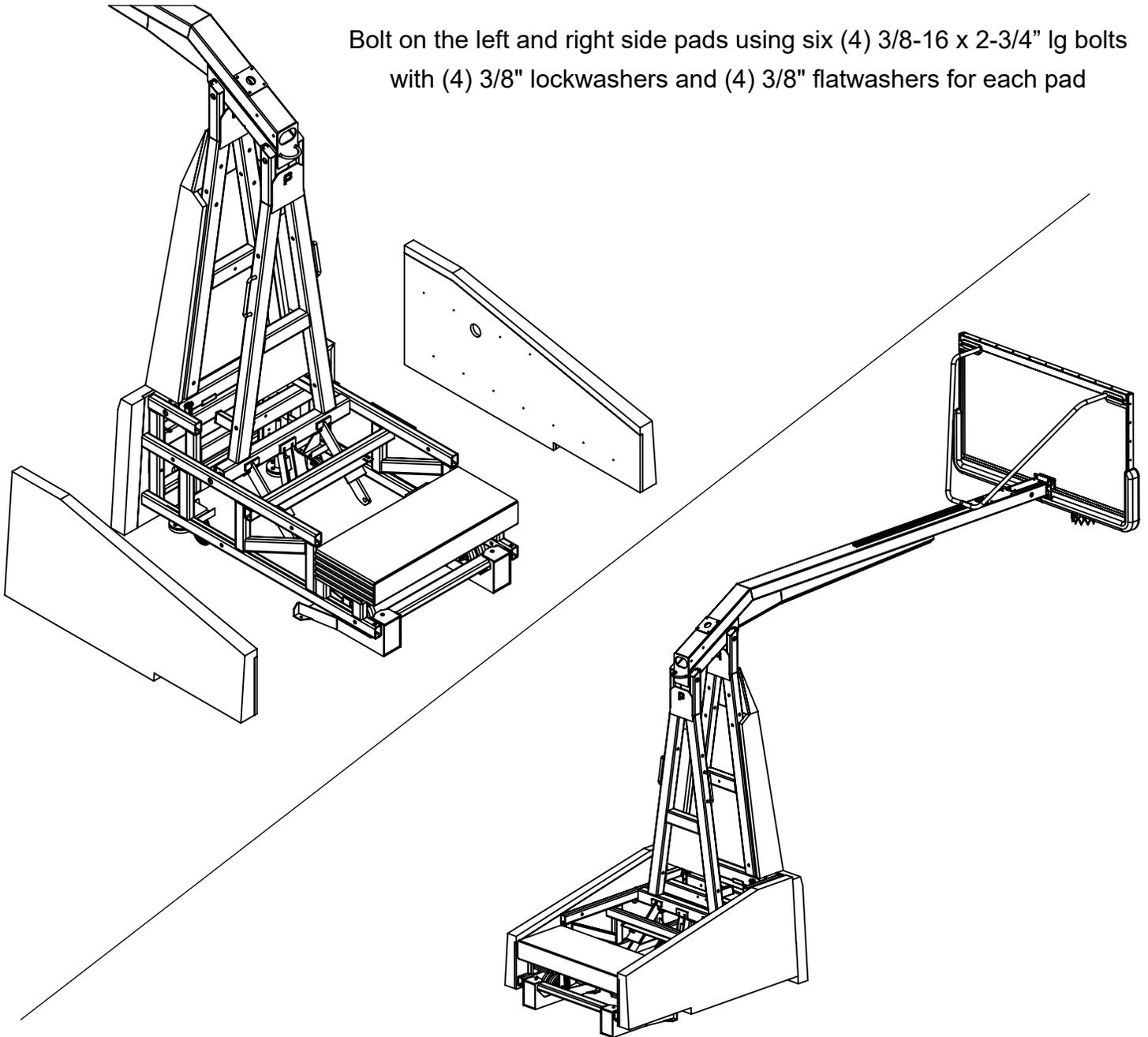
Bolt on the lower mast pad using five (4) 3/8-16 x 3-3/4" lg bolts with
(4) 3/8" lockwashers and (4) 3/8" flatwashers



Bolt on the upper mast pad using five (4) 3/8-16 x 3-3/4" lg bolts with
(4) 3/8" lockwashers and (4) 3/8" flatwashers

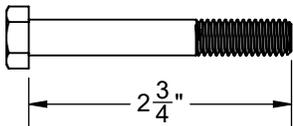


Bolt on the left and right side pads using six (4) 3/8-16 x 2-3/4" lg bolts with (4) 3/8" lockwashers and (4) 3/8" flatwashers for each pad

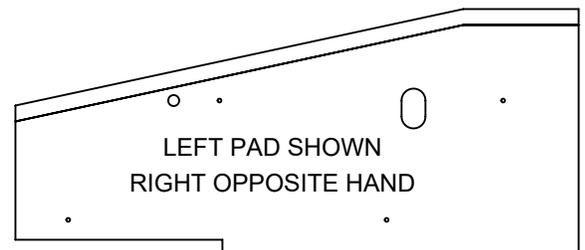


HDWE012100E0 (QTY: 8)

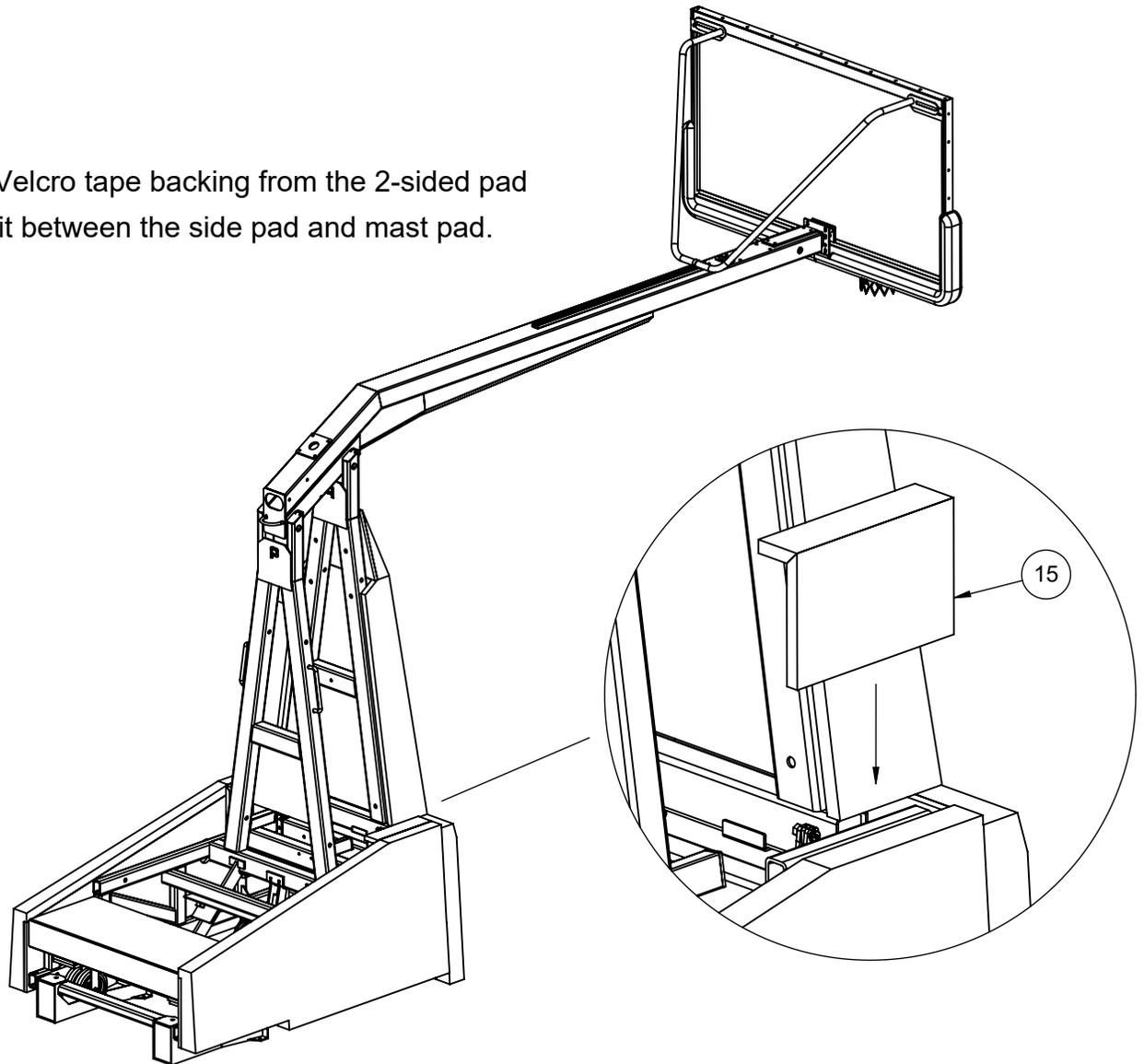
HDWE050040E0 (QTY: 8)



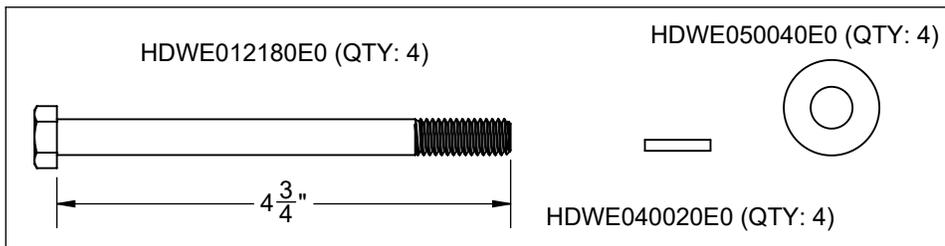
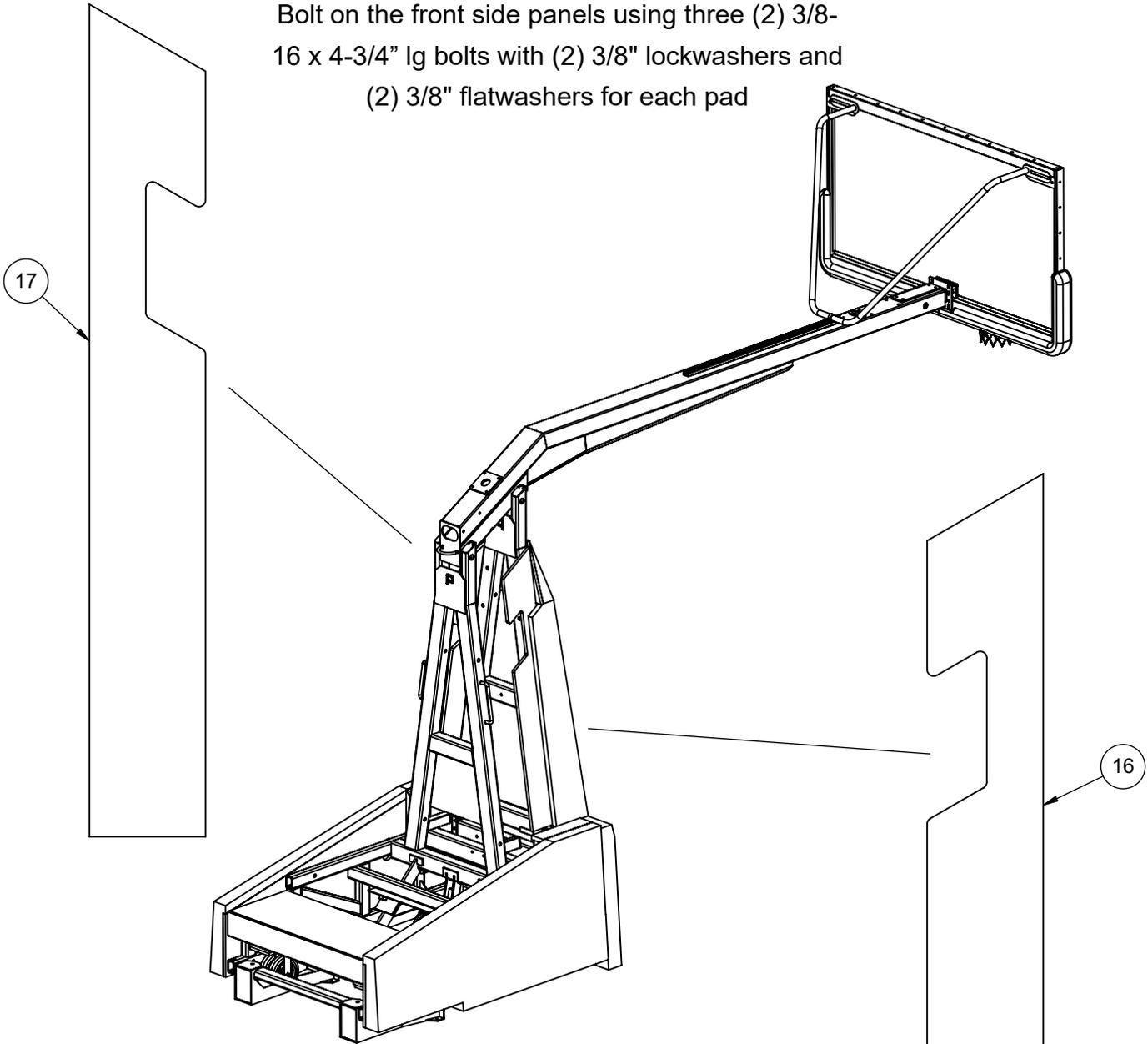
HDWE040020E0 (QTY: 8)



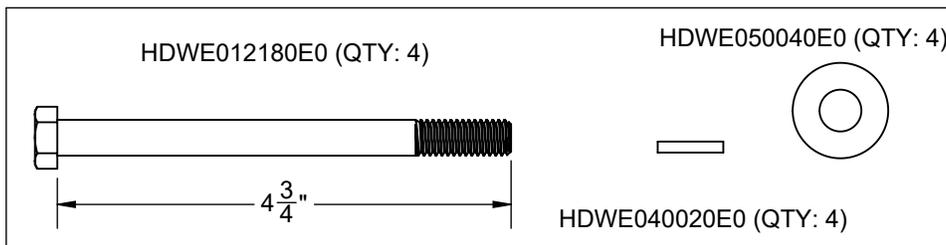
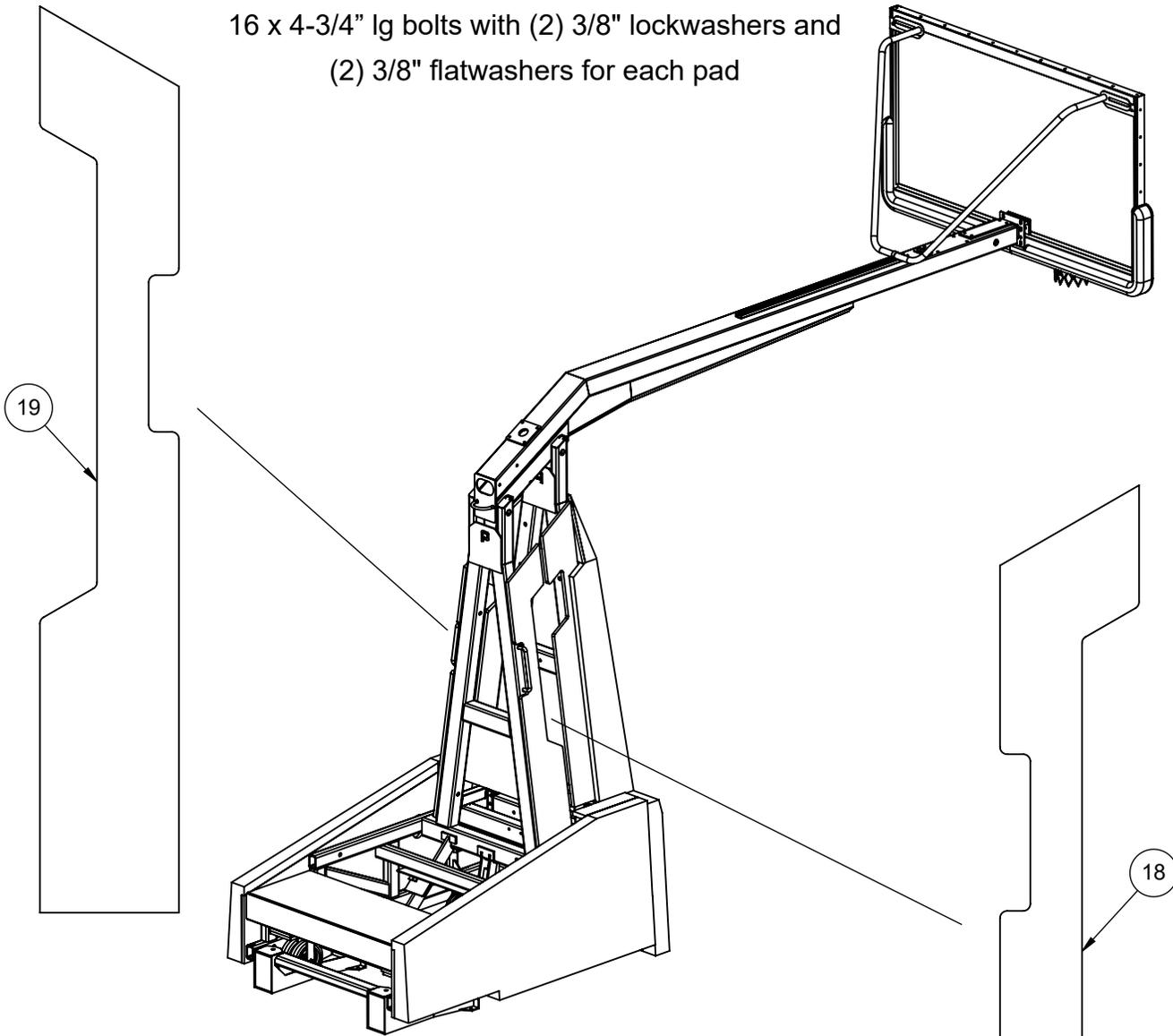
Remove the Velcro tape backing from the 2-sided pad and insert it between the side pad and mast pad.



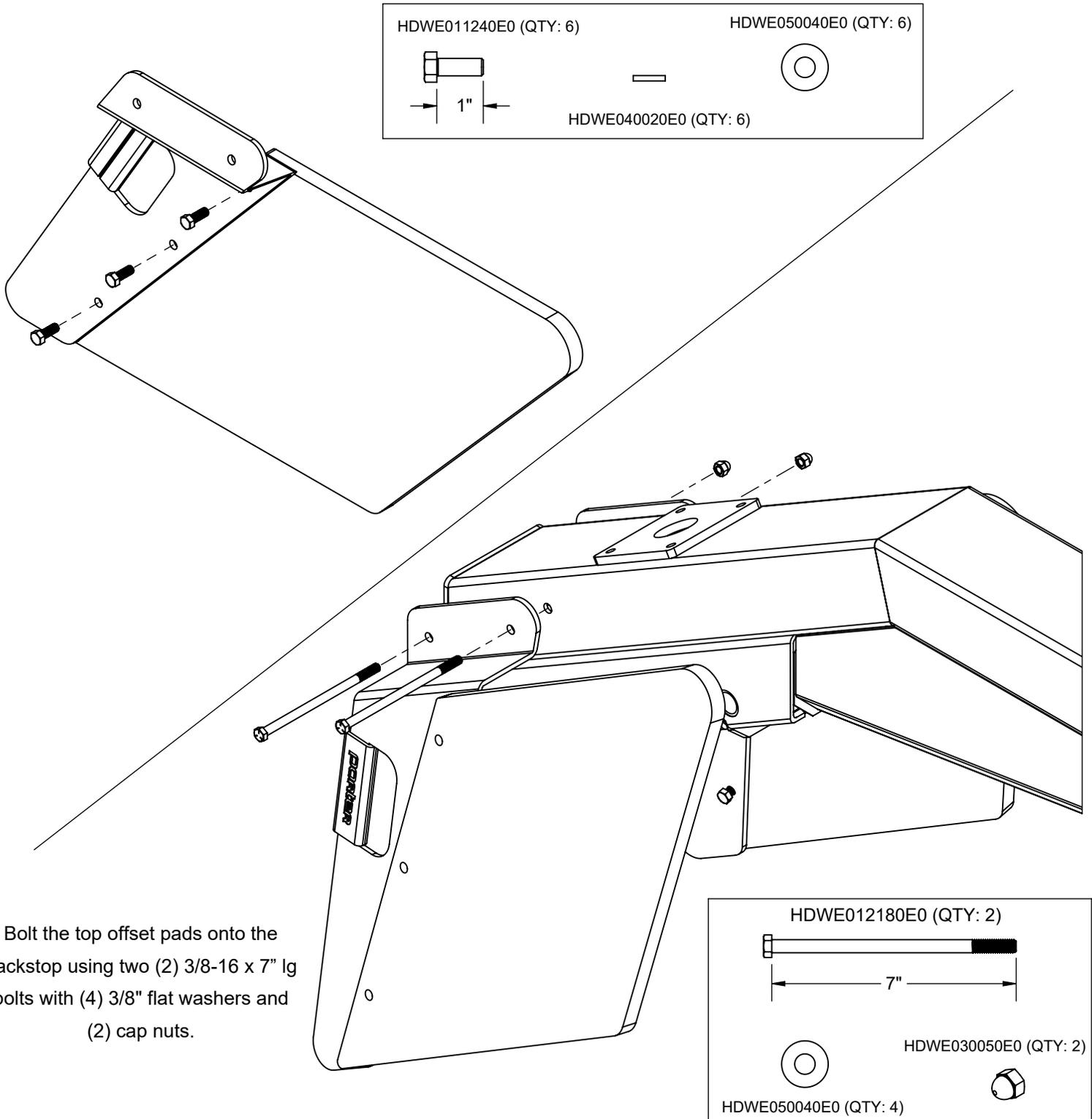
Bolt on the front side panels using three (2) 3/8-16 x 4-3/4" lg bolts with (2) 3/8" lockwashers and (2) 3/8" flatwashers for each pad



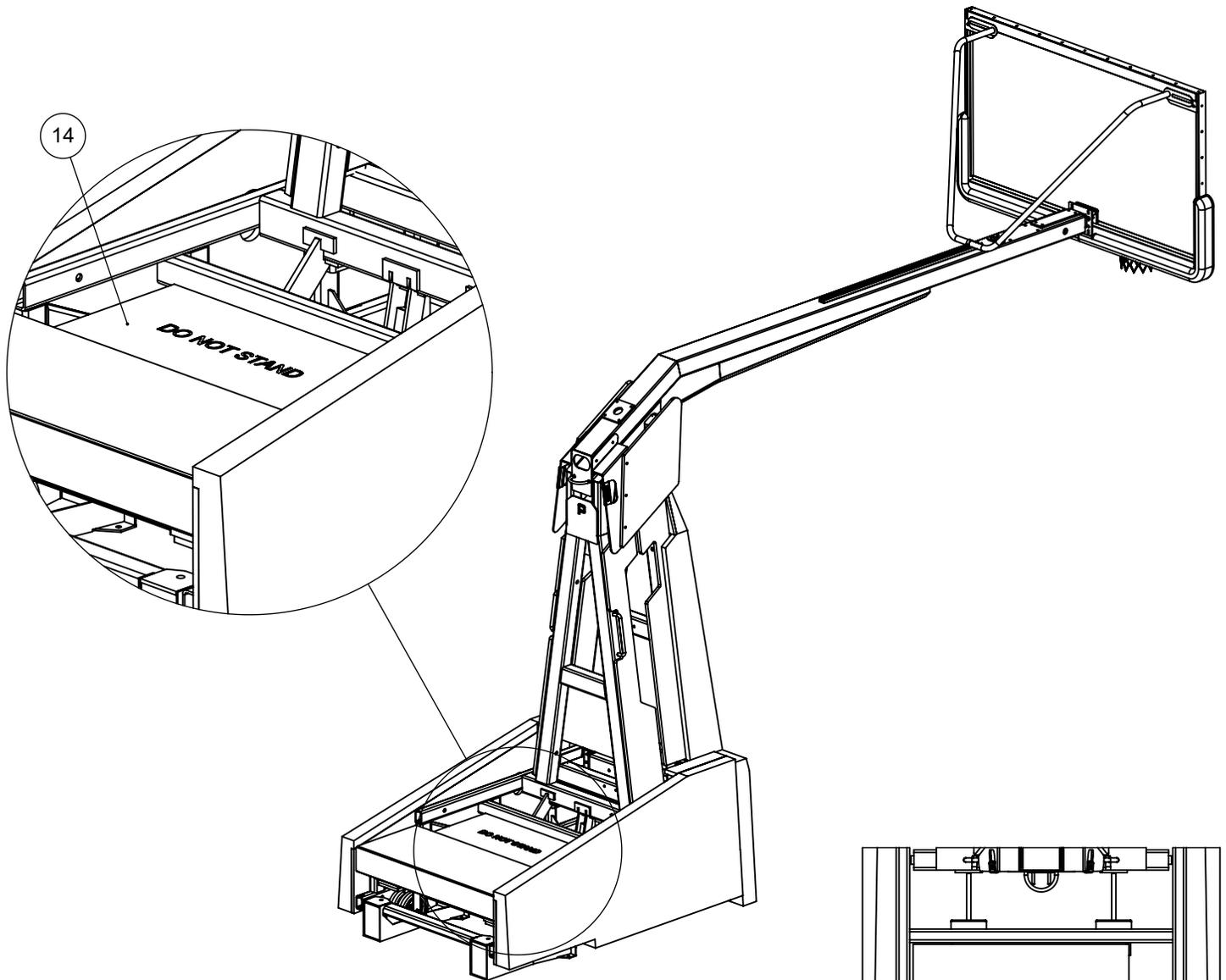
Bolt on the back side panels using three (2) 3/8-16 x 4-3/4" lg bolts with (2) 3/8" lockwashers and (2) 3/8" flatwashers for each pad



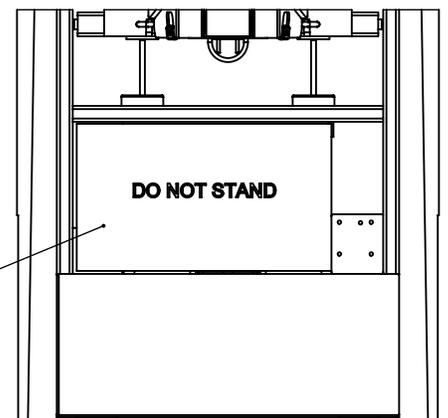
Bolt the attachment brackets onto the top offset pad wood panels using three (3) 3/8-16 x 4-3/4" lg bolts with (3) 3/8" lockwashers and (3) 3/8" flatwashers for each panel. Note the orientation of where the panel mounts on the attachment bracket (the panel mounts on the outer face of the bracket further from the portable backstop).



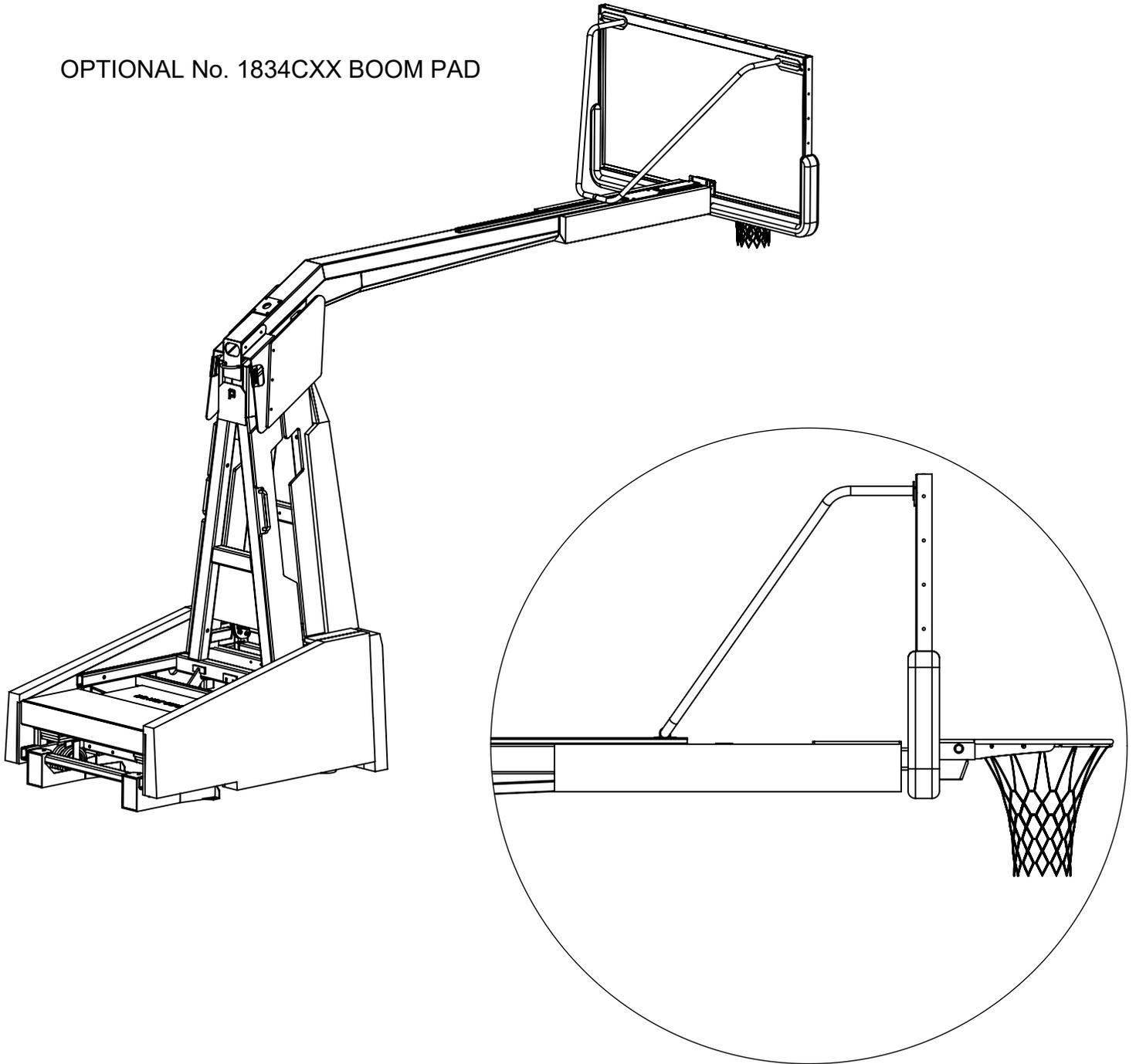
Place the "DO NOT STAND" spring cover over the springs



"DO NOT STAND" spring cover can be centered or offset for access to control box on motorized models; either way a basketball cannot bypass cover and get into springs



OPTIONAL No. 1834CXX BOOM PAD



Use the straps to attach the boom pad