

Installation Instructions Wall Mounted Basketball Backstops



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Caution

- ① When laying out parts, be careful not to place them where they may be in the way of scaffolding, lifts, or working areas.
- ② Before beginning assembly, locate and identify all parts using hardware list and project drawings.
- 3 Backstops must be installed level and plumb.
- 4 Make sure power is disconnected before wiring winches.
- ⑤ Do not install damaged or defective parts.
- **(6)** For warranty information, consult separate information sheet.
- When calling Progressive Sports Construction Group with questions, please have your order number, and, if possible, project drawing that was provided with your backstop.
- Have architect/general contractor verify backstop and court line locations prior to beginning installation.

These instructions are meant as a guide only. They do not bind Progressive Sports Construction Group in any way and do not imply any responsibility of Progressive Sports Construction Group for improper installation or faulty workmanship at the jobsite.

Installation Tips

- ① When possible, install bolts with heads toward floor (threads up), or with heads toward front (threads facing rear of backstop).
- ② Use your project drawings, which will tell you everything from exact locations to what clamps to use. If the drawing is to scale, the scale can always be found at the bottom of the drawing.
- ③ Dimensions are referenced from Face of Bank, Center Line of Court or Center of Clamp. Refer to project drawings for dimensions. <u>Remember to account for offset dimensions (Center of Clamp to Edge of Clamp) when marking beams for clamp placement.</u>
- Prior to assembly, distribute parts to the correct backstop locations; make sure you have the proper parts for each backstop location.
- ⑤ All Progressive Sports Construction Group Gymnasium Equipment is supplied with Grade 5 hardware. Clamps are designed to be installed with the nuts and bolts "tight"—torques between 40 ft-lbs and 60 ft-lbs.

How to Use This Manual

This manual covers installation of all Progressive Sports Construction Group Wall-Mounted Backstops, and is designed to be used in conjunction with project drawings. Project drawings show clamp numbers and positions for each backstop. Begin at step 1, the top, and work your way down, following instructions for clamps provided for each specific installation.

Tools Needed

- -Block and tackle
- -9/16" and 3/4" wrenches, or socket wrenches, sizes 9/16" and 3/4"
- -Chalk line
- -Plumb bob or laser plumb pointer
- -Tape measure (minimum 100')
- -Needle-nose pliers
- -Screwdrivers (Phillips and flat-head)
- -Allen wrenches
- -Impact tool
- -Scaffolding and/or lift
- -Carpenter's Level
- -Electric drill (9/16" and 9/32" bits)
- -Electric saw
- -Wire cutters

Operation

- ① On wall-mounted folding models (1400 and 1500), make sure the walls are cleared of any obstructions to proper operation.
- ② Make sure manual winches are located close to backstop, or at least in a position that allows the operator to see the backstop being raised or lowered.
- ③ Winches should be operated by qualified personnel. Locate winches where they are not easily reached, and keep manual or portable electric operators secured when not in use.
- Use winches only for their original purpose; if equipment changes are necessary, contact Progressive Sports Construction Group.
- ⑤ If you encounter a problem during installation or operation of your backstop, contact Progressive Sports Construction Group. immediately.
- Make sure wall is strong enough to support backstops.

Maintenance/Inspection

NOTE: Backstops by Progressive Sports Construction Group are designed to operate for many years with a minimum of maintenance. However, you should periodically inspect your wall-mounted backstops to ensure they are in good repair and operating properly. Check backstops at least twice a year, depending on amount of use. You will find on page 10 a maintenance checklist. Detach, make copies, and hang this list in a convenient location to help keep track of inspections and repairs. If you encounter problems, or need to replace any parts, contact your dealer or Progressive Sports Construction Group.

Wall/Wood Pads

- ① Check wall inside and out for cracks, crumbling mortar, or other signs of damage.
- ② Make sure wood wall pads are not pulling away from the wall.
- ③ Inspect wall pads for splits, chips, or other signs of damage or excessive wear. Make sure they are still strongly anchored, and that there has been no slippage.
- ① Check hardware attachments to wood wall pads. Make sure there is no corrosion, and that all attachments are still tight.

Legs/Braces/Supports

- ① Inspect chain supports for corrosion, cracks, links pulling apart, or other signs of damage or excessive wear.
- ② Make sure chain swivels operate smoothly, and that they have not been bent out of shape.
- 3 Check leg attachments for 1400 and 1500. Make sure they are not bent, and that the legs operate smoothly.
- ① Inspect brace and leg attachments for 1310 (stationary model). Make sure they are still tightly attached, and there is no movement up and down or side-to-side.
- ⑤ Check telescoping cross-brace on 1500; make sure spring-loaded locking mechanism is functioning properly.
- Make sure legs are still level, and that there are no cracks, dents, or bends. Also check for corrosion.

Winches

- ① Examine cable drum on winch for excessive wear or looseness. Ensure cable is wrapping correctly, and that "stacking" (cable wrapping unevenly in layers) does not occur.
- ② Inspect manual winch adapter and socket on hand or electric operator for excessive wear (rounding of edges).
- ③ Check safety lock to make sure it keeps Manual Winch Adapter in place.

 Make sure winch is still properly mounted. If winch has slipped slightly, correct and tighten bolts using an impact wrench.

Please Note: winches are self-lubricating. No periodic application of grease or oil is required.

Cable Run

- ① Check cable sheaves for excessive wear or looseness. Make sure cable is still passing properly through the sheave.
- ② Inspect cable clamps for tightness; Make sure there is no slippage.
- ③ Check aircraft cable for fraying. (Hint: One way to do this is by running an oily rag along the aircraft cable. The rag will snag on frays; it will also lubricate the cable.) If fraying is encountered, contact your dealer or Progressive Sports Construction Group for replace-

ment. Caution: Wear gloves when searching for frays.

Backstop/Accessories

- ① Inspect backstop legs and frame. Make sure all bolts and clamps are tight and have not shifted. Check for cracks, corrosion, or other signs of damage or excessive wear.
- ② Make sure Side Braces are still at proper length.
- ③ Check Height Adjuster for loose clamps, or binding that keeps it from operating correctly.
- (4) Lubricate Inner Tubes of Height Adjusters with petroleum jelly.
- S Lubricate Height Adjuster rod at least every 6 month with a high-quality synthetic lithium grease.
- ⑤ Inspect bank and goal for cracks or bending. Also make sure top of rim is still 10' above the floor, and level.
- Check padding for tears, missing pieces, or loose sections.
 Re-glue if necessary.

Winch Attachment/Wiring

♠ Caution

- ① As with any lifting device, the installation shall be made only by persons suitably experienced and qualified for work on hoisting equipment, in accordance with local requirements.
- The electrical supply and connection to the winch shall be made in accordance with local electrical code and by qualified personnel.
- The instructions address the areas of proper mounting, rope installation, wiring and limit switch adjustment, but they are not intended to cover every aspect of installation of your hoisting system, nor to replace the need for normal good care, workmanship and proper practices on the part of the installer. Read all instructions prior to installation and use.
- ④ This unit is intended for indoor use only.
- ③ Use appropriate lock-out and tag-out procedure when installing unit.

Hardware packet includes:

| Description | Quantit |
|---------------------------------|---------|
| Washer, Flat, 1/2" x 13/8" | 4 |
| Flange Lock | 4 |
| Nut, Hex, ½" | 4 |
| Screw, Hex head, ½" x 2½" | 4 |
| Screw, Square head, 3/8" x 1/2" | 2 |
| Half Clamp, Pipe, 3" | 2 |

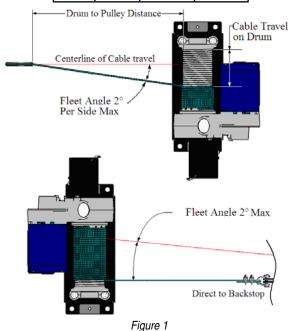
Tools needed:

- -Twelve point socket 3/4" and drive
- -3/4" combination open/box end wrench
- -3/8" eight point socket
- -0-100 ft lb torque wrench
- -Center punch & drive hammer
- -3/8" twist drill
- -Cordless drill motor
- -#3 Phillips screw driver

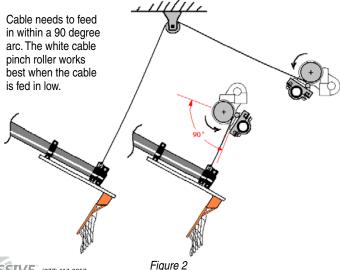
The clamps provided are designed for 4" tube (4" outside diameter) or 3" pipe $(3\frac{1}{2})$ " outside diameter).

① The basketball backstop must be in its down position for installation of the winch. Locate the installation position of the winch. It is important that the winch be located a proper distance from the closest pulley or attachment point. This is based on the total travel distance of the cable pulled by the winch. Generally speaking the greater the amount of cable drawn, the greater the distance needs to be. For any length of cable, the formula is 4 inches of offset per foot of cable drawn. (See winch drum chart).

| | Winch Drum Chart | | | | |
|----------------------|------------------|---------------------------------|-----------------------------------|--|--|
| Cable payout in feet | # turns | IN. Linear travel on drum | Min drum to pulley distance | | |
| 10 | 8.6 | 2.4 | 48 | | |
| 15 | 12.9 | 3.6 | 60 | | |
| 20 | 17.1 | 4.8 | 72 | | |
| 25 | 21.4 | 6.0 | 86 | | |
| 30 | 25.7 | 7.2 | 103 | | |



Determine the installation angle of the winch. During the full range of motion of the backstop, the cable must not ever rub on any part of the winch or backstop structure.





② Attach one half of each pipe clamp to the base plate of the winch as shown. This is so that you can place the winch on the mounting structure pipe and have the clamps handy for assembly.

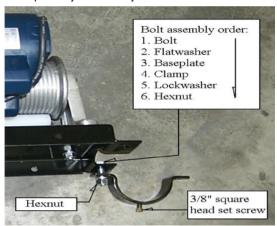


Figure 3

3 Insert the second set of bolts and washers into clamps and base plate.



Figure 4

- Position the winch and hand tighten the bolts so that the winch will remain in position on the pipe.
- Mark pipe for set screw hole. Use the ³/₈" 8 point socket and drive handle to tighten the ³/₈" square head set screw against the pipe enough to dent the paint on the pipe.
- Loosen the clamp bolts enough that the winch can be rotated and moved about 3" to one side.
- ① Use center punch to mark and indent the centers of where the set screw upset the paint on the mounting pipe. This is so that you can drill an index hole in the pipe to prevent rotation of the hoist.

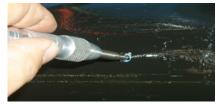


Figure 5

® Drill the pipe with the ³/₈" drill so that the holes pierce completely into the interior of the pipe.



Figure 6

- ® Re-position the winch clamps over the holes in the pipe and tighten the square head set screws into the holes in the pipe. Torque the set screws to 18 ft lbs
- Tighten the four half inch hex bolts that hold the clamps to the base plate. Torque the nuts on the hex bolts to 35 ft lbs.



Figure 7

- (1) Connect winch to building or temporary power source.
- If necessary, route cable as shown on backstop drawings.
- William Use only ¼" Galvanized Steel, 7 x 19 stranded wire Rope (per MILDTL-83420 or Equivalent). Assure the cable set screws are loosened enough to allow the cable to insert fully into the drum. Insert cable into socket in drum, and push through until the end is exposed on the opposite side of the drum.

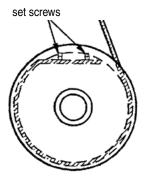


Figure 8

(4) Torque both set screws to 7 ft lbs.



Figure 9

- ® Wind a minimum of two safety wraps of cable on the drum.
- The cable must wind onto the drum following the grooves on the drum. It will only wind properly on the drum in one direction.



Figure 10

WARNING: Cable winding on drum poses a severe pinch hazard! Use extreme caution while installing cable. Do not guide cable onto drum with hands; use proper tools. Do not damage or nick the cable in the process of winding it onto the drum. Do not wear loose clothing, long hair, jewelry, etc. When installing cable on drum, ensure that the opposite end of the cable is free. Do not attach cable to backstop until the hoist unit is installed and the cable wound on the drum.

① Attach far end of cable to the backstop. Leave 1"-2" of slack in cable.

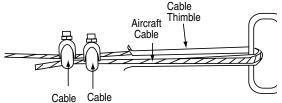


Figure 11

® Lock out electrical power.

WARNING: HIGH VOLTAGE! Setting the limit switches is a hazardous operation. To set the limit switches you must access the winch while the cable is installed. Lock out and tag the circuit breaker for this unit before adjusting the limit wheel settings. This prevents electric shock, and injury due to unexpected winch movement.

Set limit switches. Loosen the retaining screw and remove the limit Box Cover.



Figure 12

Press the black index locking bar away from the down direction index wheel so it can rotate freely. Rotate the wheel until the switch "clicks" indicating that the switch is active.

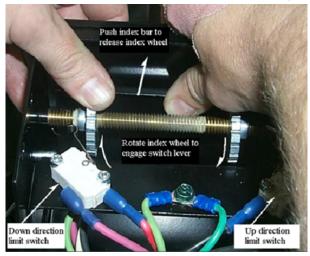


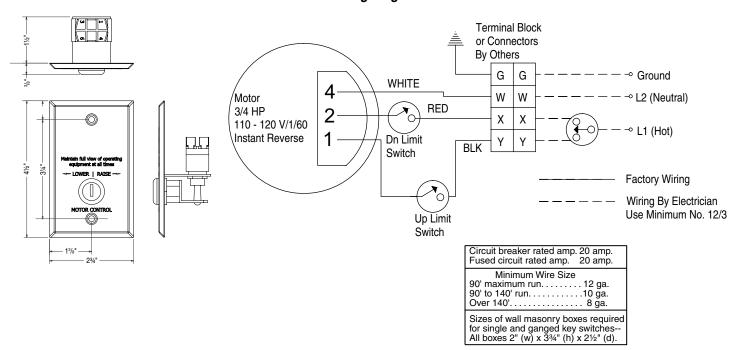
Figure 13

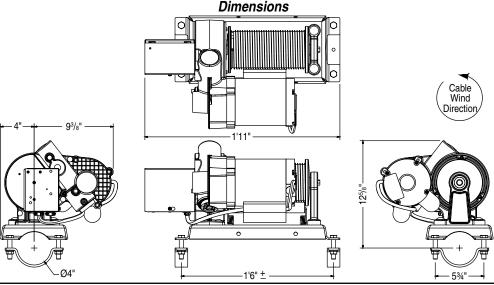
- ① Unlock and restore electrical power. Twist the key switch in the down direction to verify the down switch setting. The winch should not move.
- ② Lock out electrical power and adjust the down direction wheel as necessary to obtain desired setting. The cable should have 1"-2" of slack in the Down position.
- Estimate the amount of cable drawn when the backstop travels from the deployed (Down) position to the stored (up). The number of feet of cable is roughly equivalent to the number of threads between the two index wheels.
- Set the Up Direction index wheel so that the two wheels are the same number threads apart as the cable travel in feet.
- Unlock and restore power.
- Operate the winch to raise the backstop to its stored position. Since each rotation of the drum is about 14.2 inches, the winch should stop short of desired stowage; the drum rotates at the same speed as the limit shaft.

WARNING: Always directly observe the movement of the backstop whenever operating, watching for mechanical interference!

- Remember to appropriately lock and unlock the electrical power. Adjust the up direction limit switch until the backstop is set.
- Place the cover on the limit box and secure the screw with a screwdriver.

Wiring Diagram





Manual Winch

(Not recommended for use backstops above 28'-0".)

Caution

- ① As with any lifting device, the installation shall be made only by persons suitably experienced and qualified for work on hoisting equipment, in accordance with local requirements.
- While these instructions address the areas of proper mounting, and cable installation, they are not intended to cover every aspect of installation of your hoisting system nor to replace the need for normal good care, workmanship and proper practices on the part of the installer.

 ③ Max. Safe Working Load shall be 1000 lbs./454 kg.

 ④ Winch shall be located so that backstops are in full view of operator, but in a
- position where operator is clear from potential injury if the backstop were to fall.
- (5) Not to be used for lifting people, or for lifting anything over people without a safety locking device or an automatic fall arrest system in place
- Do not use height adjuster electric operator or other electric drills. Use hand crank or optional 503249 Portable Electric Winch Operator.

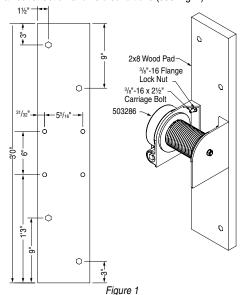
Warning: Winch shall be located so that backstops are in full view of operator, but in a position where operator is clear from potential injury if the backstop were to fall. Not to be used for lifting people or to lift anything over people without a safety lock or automatic fall arrest system in place.

© Find installation location according to project drawings

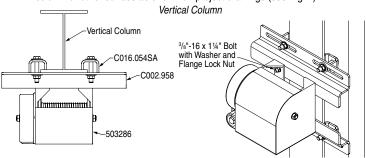
© Four 7/16" diameter holes are provided for mounting the winch to wood pad or

- clamps. It will be necessary to remove winch cover during installation.
- Wall attachment hardware will vary based on field conditions

 A) To mount to 2 x 8 x 36" wooden wall pads Locate winch at center of wood pad with the pad running vertically. Mark and drill 13/32" holes and attach using 3/8"-16 x 21/2" carriage bolts and flange lock nuts. Anchor wooden wall pad per manufacturer recommendations and using hardware that is appropriate for wall construction and field conditions (see Fig. 1).



B) To mount to plate or other steel brackets. - Winch is attached to steel plate or brackets using 3/8"-16 x 11/4" hex head bolts and flange lock nuts. Attach to column or other surface as shown on project drawings (see Fig. 2).



Tapered Column

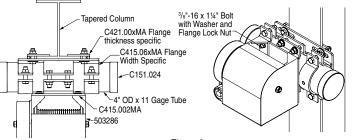


Figure 2

3 Turn winch handle so that cable attachment point (on gear box side of drum) is visible. Insert ¼" diameter 7 x 19 aircraft cable into hole until end is exposed on opposite side of Drum. Tighten both set screws against cable. Then wrap between one and 11/2 wraps cable drum to determine the full down position (sse Fig. 3).



Figure 3

- We suggest that the cable be marked with a piece of tape or bright paint to indicate when backstop is in full stored position to prevent users from overfolding and potentially damaging backstop or structure to which the backstop is mounted.
- ⑤ After installation is complete re-attach winch cover.

Installation Instructions

Aut-O-Loc 2[™] Safety Strap by Progressive Sports Construction Group

Caution

- ① Use scaffolding or lift when attaching safety belt.
- ② Safety straps are recommended with all Progressive Sports Construction Group Ceiling-Suspended Folding Backstops.
- If part of an installation which includes winches and backstops, place safety belt according to project drawings.
- (1) Install so safety strap does not interfere with backstop operation.
- ⑤ Clamps provided to attach safety strap to backstops; other brands require tie-off directly to the backstop.
- Install so the strap pulls out straight and flat toward the backstop. Strap must move freely through the range of backstop motion and must not rub against anything as backstop moves; abrasion may cause strap failure.
- Warning Tear Tab sewn in strap is designed to tear away if the unit is tripped. Loop should not be used as an anchor point!
- ® Read all instructions prior to installation and use.
- This unit is not a personal fall protection device.
- 1 This unit must be replaced after catching a falling load.
- ® Ensure all people are clear of backstop when operating hoisting equipment.
- [®] This unit is intended for indoor use only.
- Use appropriate lock-out and tag-out procedure for backstop hoist when installing Aut-O-Loc 2[™].
- [®] During installation, use a tether on the Aut-O-Loc 2[™] that will prevent the Aut-O-Loc 2[™] from falling. Ensure that people are well clear of work area, and that no-one is underneath work platform. When installing unit ensure that work platform is stable and clear of moving equipment during hoist operation. Work platform (i.e. man lifts) may tip when extended to great heights. Make sure the work platform is clear of the backstop when testing the movement of the backstop and Aut-O-Loc 2[™]. Do not stand on work platform during movement of backstop.

These instructions are meant as a guide only. They do not imply any responsibility on the part of Progressive Sports Construction Group for improper installation or faulty workmanship at the jobsite.

List of contents in the box:

| LIST OF CONTENTS IN THE DOX. | | | | |
|-------------------------------|----------|--|--|--|
| Description | Quantity | | | |
| Aut-O-Loc 2 [™] | 1 each | | | |
| Instruction Set | 1 each | | | |
| Hardware packet containing: | 1 each | | | |
| Nut, Hex 3/8" Flange Lock | 1 each | | | |
| Nut, Hex, ½" Flange Lock | 2 each | | | |
| Nut, Hex 5/8" Flange Lock | 1 each | | | |
| Bolt, 3/8" x 3" | 1 each | | | |
| Bolt, 1/2" x 3" | 1 each | | | |
| Bolt, 1/2" x 4" | 1 each | | | |
| Bolt, 5/8" x 41/4" | 1 each | | | |
| Clamp, Strap, Buckle | 1 each | | | |
| Clamp, Pipe (for belt buckle) | 1 each | | | |

Following is a list of necessary tools:

- -3/4" six or twelve point socket
- -3/4" combination open/box end wrench
- -9/16" socket & wrench (open or adjustable)
- -15/16" socket & wrench (open or adjustable)
- -5-100 ft lb torque wrench

Installation

① The basketball backstop must be in its deployed (down) position for installation of the Aut-O-Loc 2[™].

② Locate the Aut-O-Loc 2[™] just above and as close to the pick up point on the backstop mast as possible. The warning tear tab should be just below the white roller guides at the bottom of the Aut-O-Loc 2[™] when the backstop is in the fully raised position.

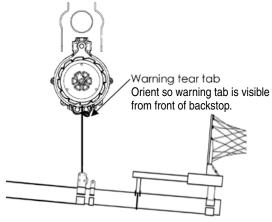
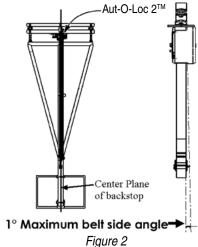
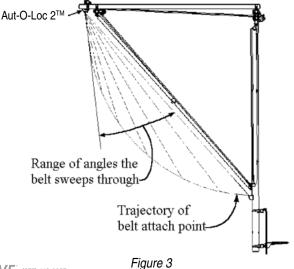


Figure 1

③ The Aut-O-Loc 2[™] must be mounted in the center plane of backstop motion and the belt should not angle to the side or rub against any surface. Maximum belt side angle should not be greater than 1° at maximum belt payout.

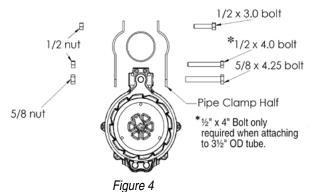


④ The Aut-O-Loc 2[™] strap should be clear of obstructions throughout its sweep. These angles are installation dependant.





⑤ Insert ½" x 3" bolt in top clamp hole and finger tighten into opposite half clamp using ½" lock washer and nut. Place clamp over mounting pipe. Lift Aut-O-Loc 2™ unit up to clamp, insert 5/8" x 4¼" bolt through bottom hole in both clamp halves and Aut-O-Loc 2™ unit and finger tighten using 5/8" lock washer and nut. If attaching to 3½" OD tube, insert ½" x 4" bolt in middle clamp hole and finger tighten using nut and lock washer. Position the Aut-O-Loc 2™ and hand tighten all bolts so that the Aut-O-Loc 2™ will remain in position on the pipe.



Stretch belt out and attach to mast. Use following steps to properly install belt clamp.

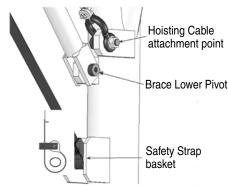
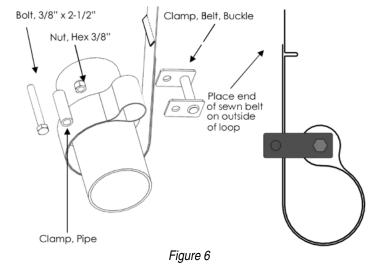
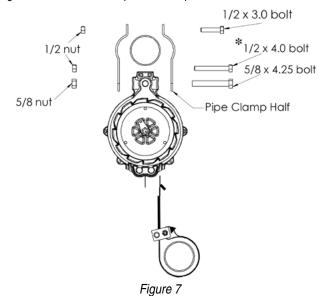


Figure 5

① Wrap end around mast attach point. Place sewn tail of belt loop on the outside of the loop. Insert bolt through the clamp and clamp tube and tighten Nyloc nut on opposite side.



- Tighten the bottom 5/8" clamp nut to a torque of 45 ft lbs.



* ½" x 4" bolt only required when attacking to 3½" OD tube.

- Tighten the 5/8" bolt so the pipe clamp is tight against the surface of the cast housing and the lock washer is compressed.
- ① Check belt clamp assembly, tighten 3/8" nut to 22 ft lbs torque. Run backboard through a complete up and down cycle to assure unit is working properly.

Backboard padding.

NOTE: This step can be completed at any point during installation; the most convenient time is during bank/goal assembly, prior to bank attachment.

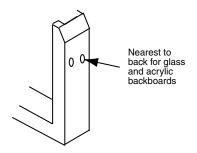
Glue-on:

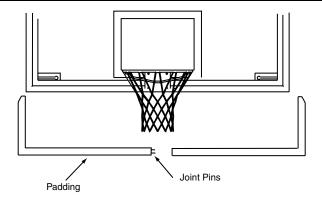
- ① Hold each half of pad in place and mark pads for trimming around support structure (if required).
- When required trimming is complete, apply coat of glue to inside of padding. Allow glue to dry until it becomes tacky (less than a minute).
- 3 While glue is drying on padding, apply a coat to the backboard.
- 4 Attach padding to backboard.

Bolt-on

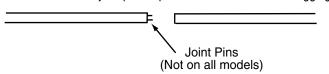
- Hold each half of pad in place and mark pads for trimming around support structure (if required).
- ② Trim pads.
- ③ Hold pads in proper position and mark holes for drilling into board framework (8 holes per backboard). Make sure the holes closest to the center of the backboard (under the rim) are positioned so that the pads join fully in the middle.

CAUTION: On all glass or acrylic backboards, use holes nearest the rear of the backboard to avoid possible damage.





- ① Drill holes (minimum 1/4", maximum 5/16") at marked locations. Drill completely through all framework structure.
- ⑤ IF PROVIDED: Use joint pins in pad half ends to eliminate sagging.



- Attach pads using appropriate screws (three sizes provided).
 Make sure all washers and lock washers are used, to avoid loosening.
- ① If needed, trim for goal clearance. (Some backboard and goal combinations will require extra trimming of pads to provide for goal clearance.)

CAUTION

Glue used to attach backboard padding is extremely flammable. Keep away from heat and flame. Keep out of reach of children. Avoid prolonged exposure to fumes: Use in a well-ventilated area.

Before leaving the jobsite:

- Touch up any scratches caused during installation or shipping.
 (Krylon Brand Gloss Black or Gloss White closely match Progressive standard colors)
- ② Remove tools and scrap from jobsite.
- ③ Ensure all backstops are level and in accordance with measurements on project drawings.
- (4) Tighten all bolts, and ensure that backstops are ready for use.
- S Verify that all backstops are functioning properly.
- ⑤ Set all limit switches on electric winches.
- ② Coat Inner Tubes of Height Adjusters with petroleum jelly and lubricate Height Adjuster Rod with full tube of supplied grease.
- ® Make sure all chalk lines are wiped from floor.
- 9 Dispose of boxes and packing materials.
- ® Explain proper winch and backstop maintenance and operation to the customer.

NOTE: If you encounter any difficulties installing or servicing your Wall-Mounted Backstop by Progressive Sports Construction Group, contact your dealer or Progressive Sports Construction Group at (765) 987-7999 or fax (765) 987-7142.



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Wall-Mounted Backstops by Progressive Sports Construction Group Backstop Model: Inspection/Maintenance List Backstop Number: ——

| - F |
|--|
| Periodically inspect your backstops and all related equipment and attachments. Frequency of inspections depends on use of the equip- |
| ment. Use guidelines mentioned earlier in this manual when conducting inspections. |

Below is a checklist to assist you in keeping a record of backstop inspections and maintenance. Cut, copy and post this page as a record of previous inspections and equipment repairs on each backstop. Place a checkmark or enter information in the appropriate box:

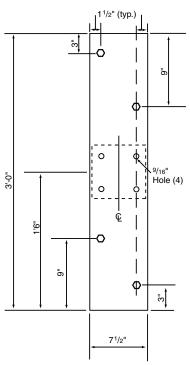
| Inspection Item | Date | Satisfactory | Cleaned | Needs Repaired/Replaced | Problem Encountered |
|-------------------|------|--------------|---------|----------------------------|------------------------|
| Winch Drum | | | | | |
| Winch Belt | | | | | |
| Winch Attachment | | | | | |
| Aircraft Cable | | | | | |
| Pulleys/Sheaves | | | | | |
| Back/Front Braces | | | | | |
| Side Braces | | | | | |
| Jackknife | | | | | |
| Wall Attachments | | | | | |
| Chains | | | | | |
| Turnbuckles | | | | | |
| Cable Clamps | | | | | |
| Backstop Clamps | | | | | |
| Hangers | | | | | |
| Frame | | | | | |
| Height Adjuster | | | | | |
| Goal | | | | | |
| Bank | | | | | |
| Backboard Padding | | | | | |
| Finish | | | | | |
| Nets | | | | | |
| Latches | | | | | |

① Wood Wall Pad Installation

NOTE: Progressive Sports Construction Group is not responsible for wall strength. Attachment method to be determined by project architect/engineer.

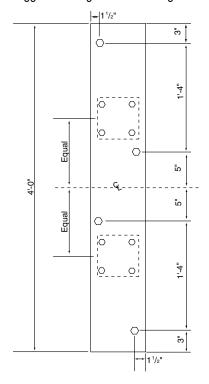
Note: Drawings will show locations of wall pads. Before drilling, make sure there are no obstructions or electrical wiring where you will be drilling. Spread plastic throws on inside floor before drilling.

- ① Mark wall attachment locations on Wood Wall Pads (see figure at right). These may be adjusted to meet field conditions. (If thru-bolts are present, lay out holes to match bolt locations.) Drill four ⁹/₁₆" diameter holes if anchor bolts are ½" dia. or larger, as needed.
- ② Position part to be attached to wood pad on center line. Mark hole locations, and drill required number of 9/16" holes.
- 3) Turn wood pad to unfinished side, countersink 9/16" holes so carriage bolt heads will be flush with wood pad (1¼" diameter x ¼" deep).
- Place wood pad against wall and mark wall where anchor holes are drilled in wood pad.
- 3 Drill holes in wall as required.
- **(6)** Install $\frac{1}{2}$ "-13 x $\frac{21}{2}$ " carriage bolts in $\frac{9}{16}$ " holes from back side of pad.
- ① Place wood pad on wall and attach with type of wall bolt appropriate for field conditions.
- ® Tighten wall bolts with hand wrench.



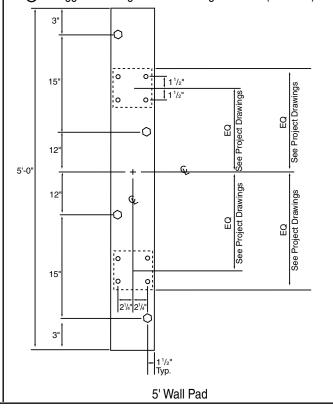
- 3' Wood Wall Pad
- >= Suggested wall mounting bolt locations.
- O = Suggested hanger bolt mounting locations (9/16" dia.).

- O = Suggested hanger bolt mounting locations (9/16" dia.).

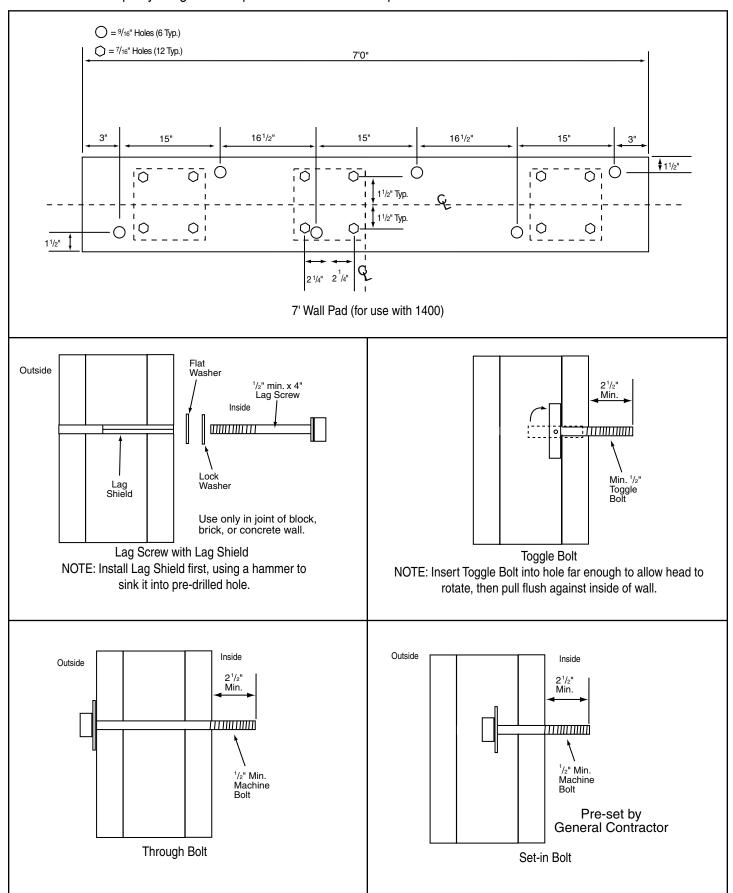


4' Wall Pad

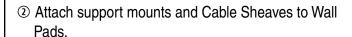
- □ = Suggested wall mounting bolt locations.
- O = Suggested hanger bolt mounting locations (9/16" dia.).

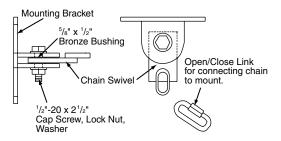


See next page for 7' wall pad. 5' and 6' wall pads also available. Contact Progressive Sports Construction Group or see your project drawings.

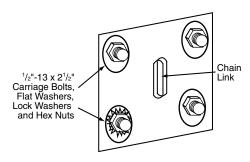


NOTE: Attachment method determined by project architect/engineer. Attachment hardware provided by others.

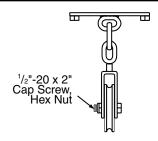




Wall Mount for 1500 chain supports.

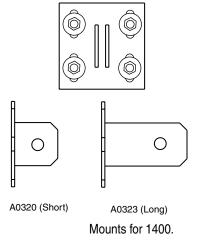


Wall chain mount for use with 7' wood wall pad on 1400 and 36" Wood Wall Pad on 1310 extensions of over 3'.

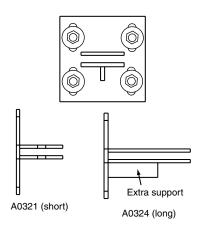


Cable Sheave for 1400.

③ Install leg mounts to Wall Pads.



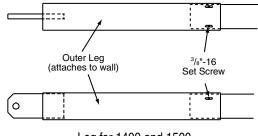
NOTE: Install SHORT LUGS on the top legs.



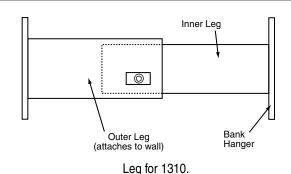
Mounts for 1500.

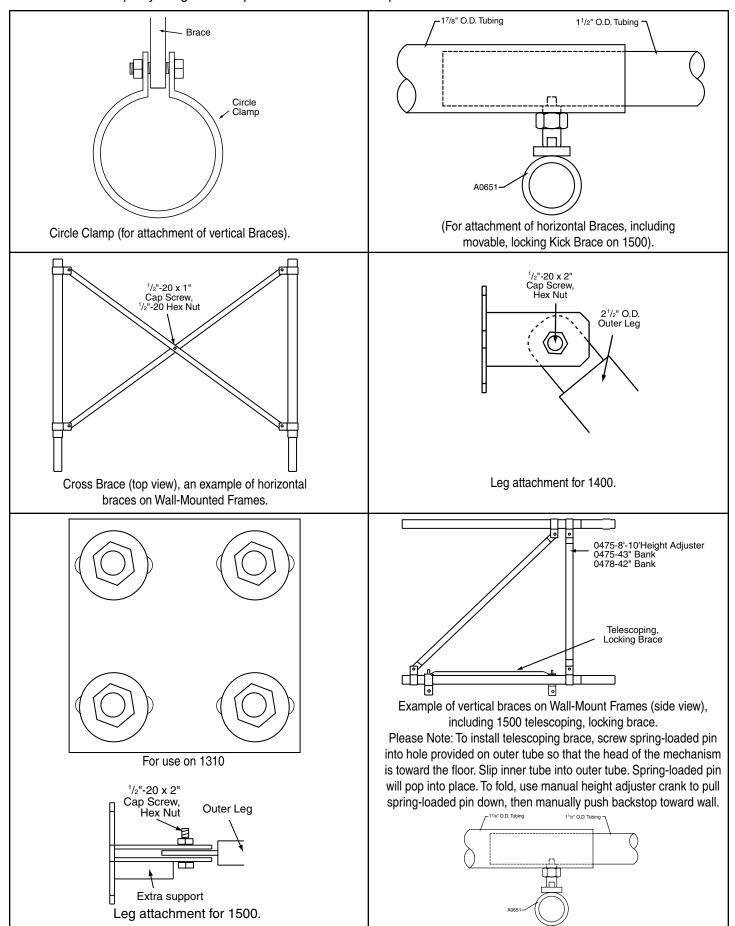
NOTE: Install SHORT LUGS on side in direction of fold (right side for right fold, left side for left fold).

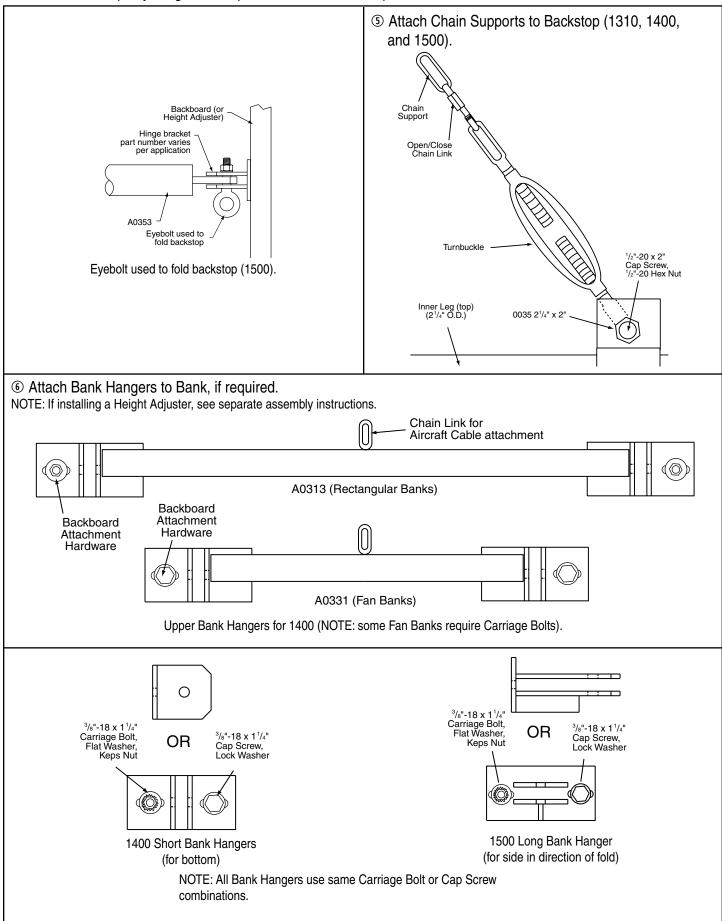
Assemble/attach Leg Frames.



Leg for 1400 and 1500.





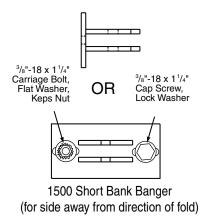


② Assemble and attach Height Adjuster, Bank, and Goal.

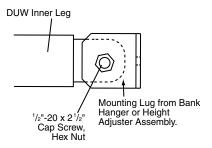
(See separate instructions for Height Adjuster assembly.)

① Bolt Goal to Bank.

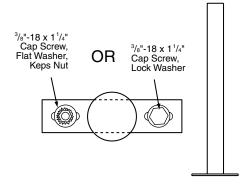
TIP: Assemble Bank/Goal/Height Adjuster/Goal Brace face down on sawhorses, then hoist and attach.



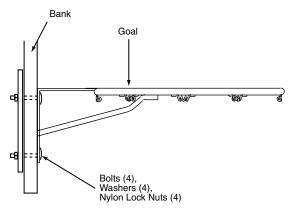
NOTE: Use lift to raise and attach Bank Assembly.



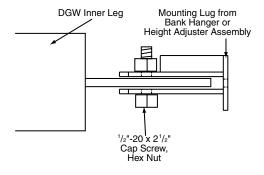
1400 Leg-to-Bank Assembly attachment.



1310 Leg-to-Bank Attachment

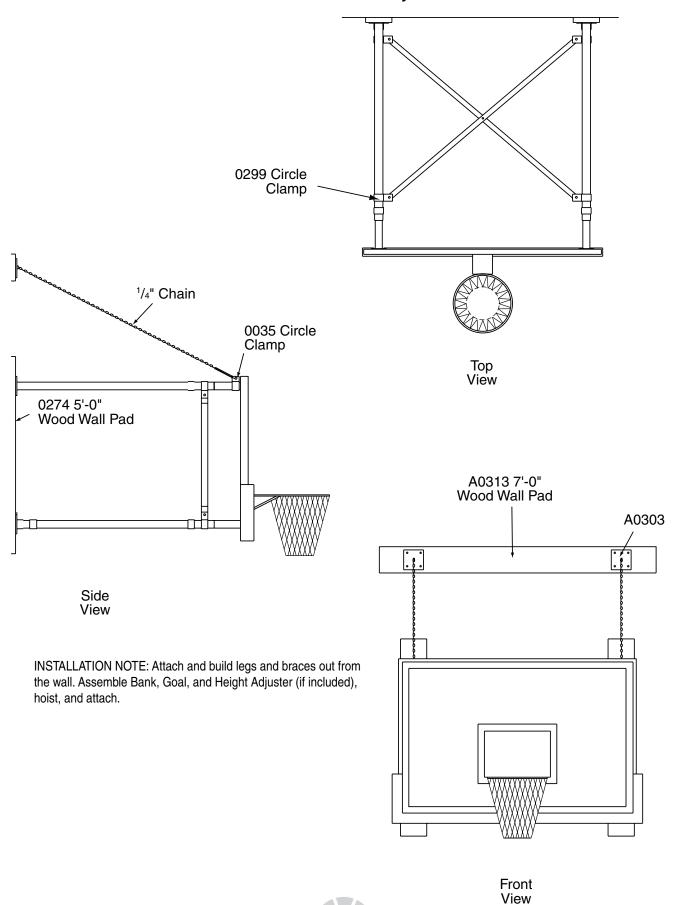


1310, 1400, and 1500 Goal attachment.



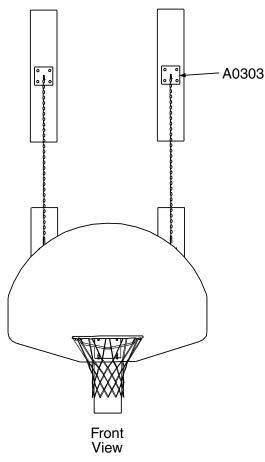
1500 Leg-to-Bank Assembly attachment.

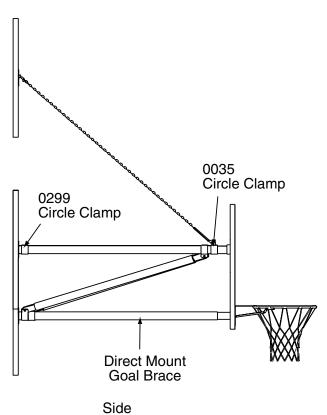
1310—Stationary



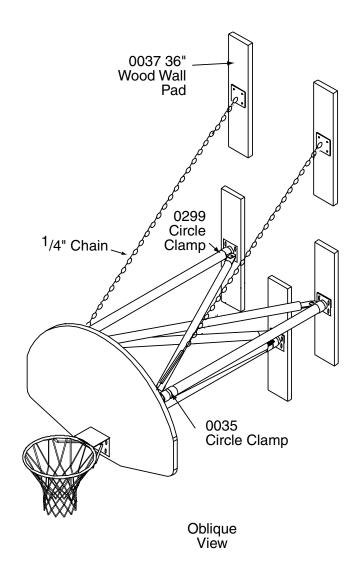
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1350—Stationary



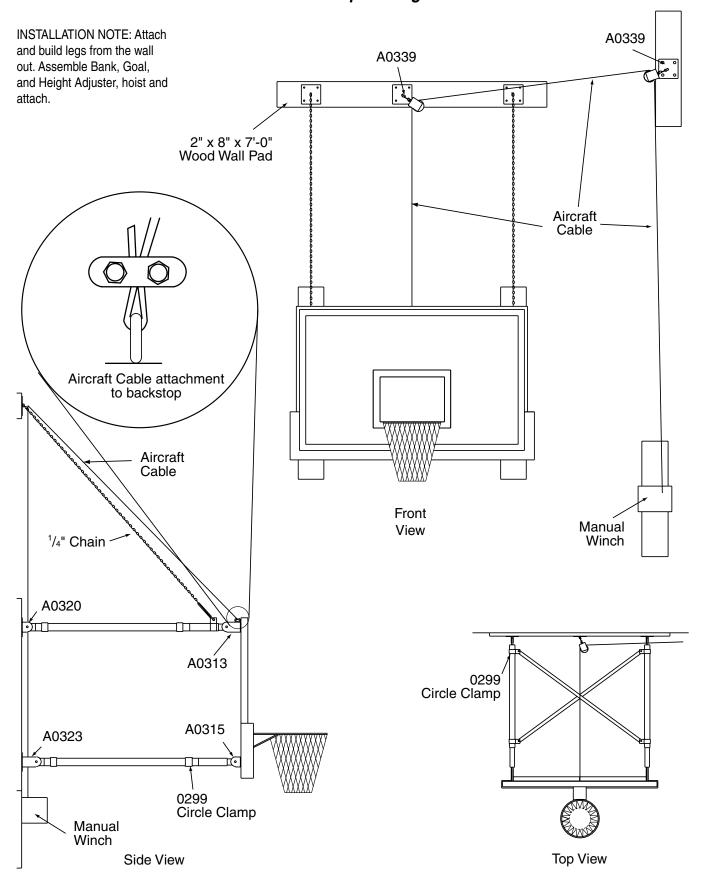


View



INSTALLATION NOTE: Attach and build legs from the wall out. Assemble Bank, Goal, and Height Adjuster, hoist and attach.

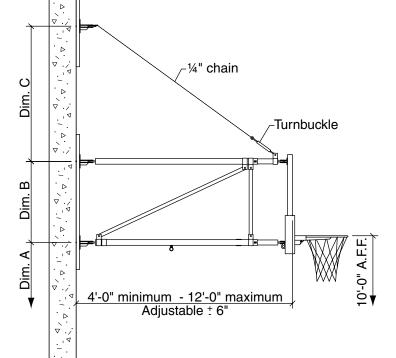
1400—Up Folding

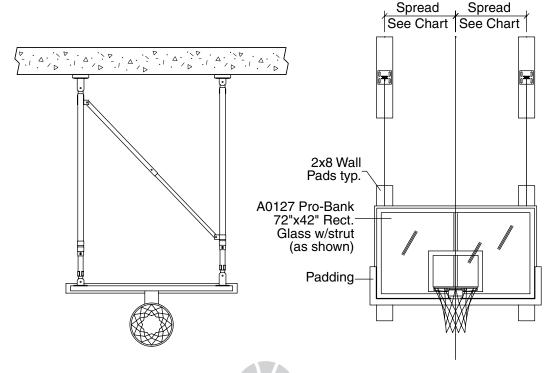


1500—Side Folding

Please Note: To install telescoping brace, screw spring-loaded pin into hole provided on outer tube so that the head of the mechanism is toward the floor. slip inner tube into outer tube. Spring-loaded pin will pop into place. To fold, use manual height adjuster crank to pull spring-loaded pin down, then manually push backstop toward wall.

INSTALLATION NOTE: Attach and build legs from the wall out. Assemble Bank, Goal, and Height Adjuster, hoist and attach.





1550—Side Folding

