

HayBoss Feeders Do It Yourself JR small Square Bale Feeder Instructions

HayBoss Feeders now has DIY square bale Feeders! We are excited to offer our customers an opportunity to build their own HayBoss Feeder. Now you can have the best, raised and covered forage feeder in the world while saving a bunch of money. Included are the roller and handle frames, nets, hardware and easy to follow construction instructions. Below is a list of materials to purchase at your local hardware store.







Materials Needed:

- 3- 2" x 8" x 10' plain spruce
 - 1- 2" x 6" x 10' plain spruce
 - 1- 4" x 6" x 10' pressure treated
 - 2- 2" x 4" x 10' plain spruce
 - 1- 4" x 4" x 10' spruce or pressure treated
 - 1- 4' x 8' x 3/4" tongue and groove plywood
 - 1 gallon of roof tar or black exterior wood paint for roof with brush
 - 60- 4" x #10 or equivalent exterior deck screws
 - 50- 2 1/2" x #8 or equivalent exterior deck screws
- Note: You will need a 3/8" & 3/4" wood drill bit at least 4 1/2" long

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JR DIY Construction Instructions

	<p>1- Cut the 2x8s and 2x6s to 51". You will get two pieces from each 10' length</p> <p>2- put all boards side by side. Make sure they are tight and measure the width. Write down this measurement. (Should be around 54")</p>
	<p>3- Measure and cut two 4x6s and two 2x4s to the length of the measurement in step 2</p> <p>4- measure and mark 2" down from the top of the 4x6s on each end. With a square draw a 45 degree angle from the mark to the bottom of the 4x6 (this is for skidding the feeder) Cut the 4x6 at this mark.</p>
	<p>5- Screw the two 2x4s to the top of the 4x6s. Use a 2 1/2" screw with approx. 12" spacing .</p> <p>Note: Keep the 2x4s flush with the outside of the end 4x6s</p> <p>Layout the two outside skids on flat ground 51" apart outside measurements.</p>
	<p>6- Place two 51" 2x8s flush with both ends of the skids. Put one 4" screw in each corner. Square this by measuring from corner to corner both ways. Move the skids where you need to so that the corner to corner measurement is the same in both directions. Pick one 2x8 to work from, screw 2 more screws in each end. One 2x8 should now have six 4" screws in it and the other should have 2.</p>



7- Place another 2x8 against the 2x8 that has six screws in it. Ensure they are tight against each other. If needed, toenail the edge to close any gaps and install 3 screws in each skid.



8- Continue placing and screwing the six 2x8s with the two 2x6s in the middle. You may have to unscrew the end 2x8 to fit the last 2x8. Each Board should have six 4" screws.



9- Lay the handle frame on the floor and place two of the 2x8 cut offs just under the two brackets that are riveted to the channel. Make sure the 2x8s are perpendicular to the channel, trace the outside of the brackets. Cut the traced line. These 2x8s will be screwed to the skid to stiffen the handle frame. See step 16



10- With help place the floor on its side as seen in the picture. Brace it so it does not fall. Measure and mark the center of the skid and draw a square line from top of floor to bottom of skid. From the top of the floor on that line mark $2 \frac{3}{4}$ " and $7 \frac{3}{4}$ ". Drill $\frac{3}{4}$ " holes through the skid at the marks. Do the same on the other side.



11- Place and install the top $\frac{3}{4}$ " bolt in the Roller frame through the top $\frac{3}{4}$ " hole that was drilled in step 9. Do the same to the handle frame on the other end of the floor.



12- On the inside of the skid slide the supplied gussets over the bolt and install a $\frac{3}{4}$ " nut. Snug the bolts and nuts



13- Use a square to mark the gussets perpendicular to the skid. Drill two $\frac{3}{8}$ " holes through the gussets and the floor. Install four $\frac{3}{8}$ " x $2\frac{1}{2}$ " bolts with washers through the floor. Install nuts on the gusset side and tighten all four bolts.
Note: Where ever there is a bolt head or nut directly against wood place a flat washer between them.

14- With help lift the handle frame perpendicular to the floor, install and tighten the second $\frac{3}{4}$ " bolt through the frame, skid and gusset. Do the same to the roller frame

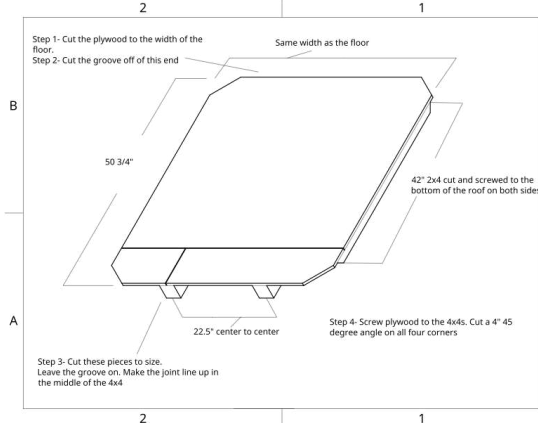


15- Use a square to make sure the roller frame is perpendicular to the floor. Drill two $\frac{3}{8}$ " holes through the roller base and the skid. Install the two $\frac{3}{8}$ " x 5" bolts, washers and nuts. Make sure all the nuts on the underside of the floor are tight. With help flip the floor back to the upright position.



16- With a square, make sure the handle frame is perpendicular to the floor. Place the two 2x8s from step 9 against the handle frame brackets and screw them to the skid using four 4" screws in each board. This will brace the handle frame.

JR Roof (Bottom side)



Refer to the attached drawing of the roof

17- Cut the two 4x4s to 50 3/4". Lay them on the floor approximately 22 1/2" apart. Cut the sheet of plywood to the same width as the floor (approx. 54"). Cut the groove off of one sheet and lay it on top of the 4x4s.

18- To figure out where to place the 4x4s, measure to the center of the plywood and make a mark. From that mark measure 11 1/4" on each side of the center mark and make a mark. Place the center of the 4x4s on these marks (the 4x4s will be 22 1/2" apart center to center). Do this on both ends and draw or chalk two lines. Keep the screws 4" from the ends. Screw the plywood to the 4x4s using 2 1/2" screws approximately 9" apart.

19- Place the next plywood over the tongue of the screwed plywood. Make sure the joint is tight and screw it to the 4x4s same as the first one. Measure and cut pieces of the plywood to finish the roof making it a total of 50 3/4"x approx. 54". See diagram



20- Cut the last 2x4 into two pieces 42". Then cut a 45 degree angle (mark the angle on the 1 1/2" side) on each ends of the 2x4s as seen in the picture. Keep the 2x4 flush to the edge of the plywood and screw through the plywood into the 2x4 every 9" or so. Do this on both sides of the roof.



21- Follow the attached instructions to install the net bars.



22- With help flip the roof over and paint or tar the top of it.



23- Bolt the four brackets to each top corners of the roller and handle frame using 3/8"x 1" carriage bolts. Make sure the bracket sticks out 2 1/2". The round head bolt goes through the frames first and then the bracket as seen in the picture. Tighten all nuts. The roof will sit on these brackets.



22- With help lift and place the roof on top of the brackets. Measure and center the roof on the frames. Drill 3/8" holes through the brackets, plywood and 4x4s. Install a 3/8" x 5" bolt through the brackets with washer and nut on top. Measure to the center of the 4x4s, drill and bolt using a 3/8" x 5" bolt with washers on both sides. (Bolts will be in line with screws adding extra support for heavy snow loads.)

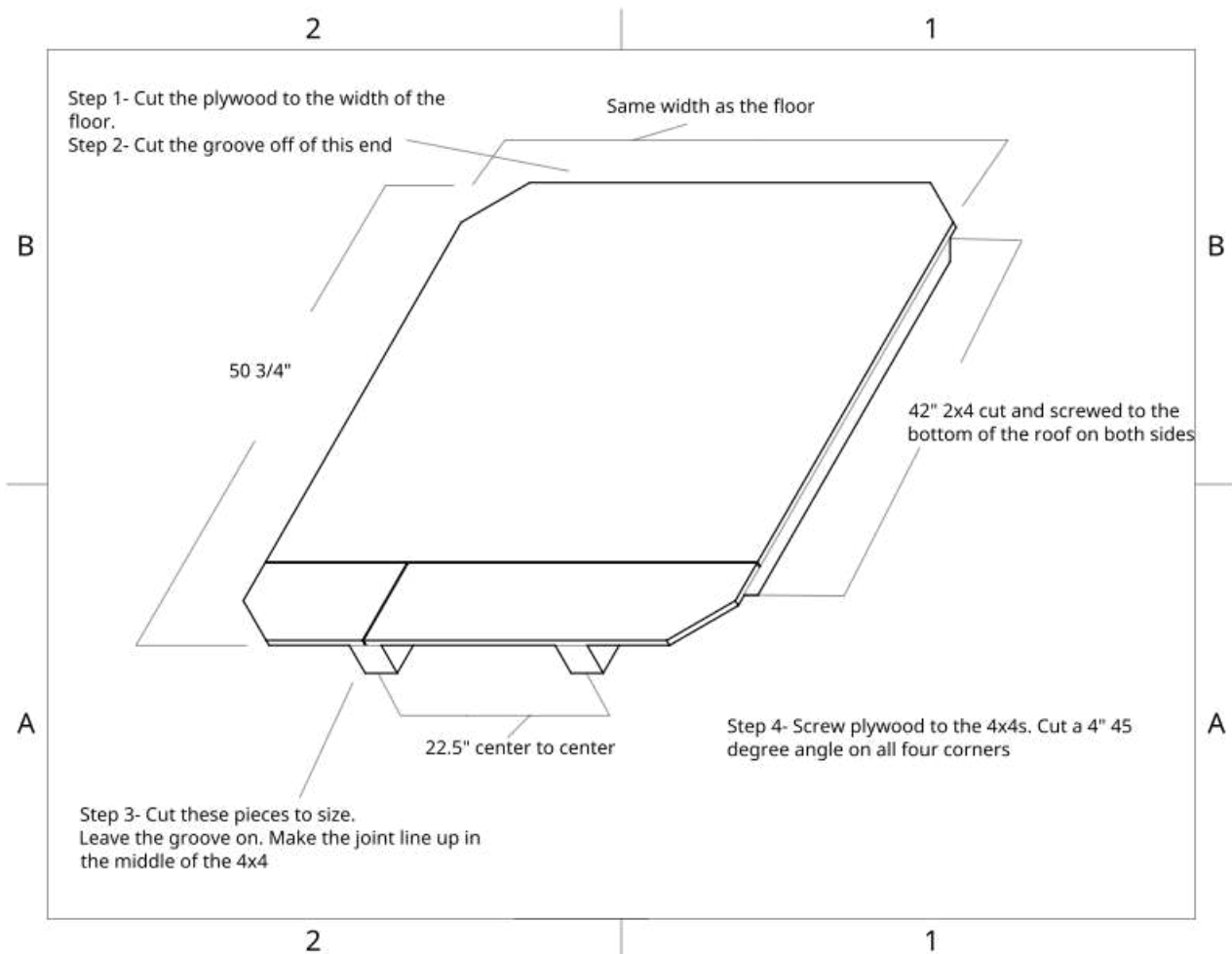
24- Follow the instructions to install the nets.

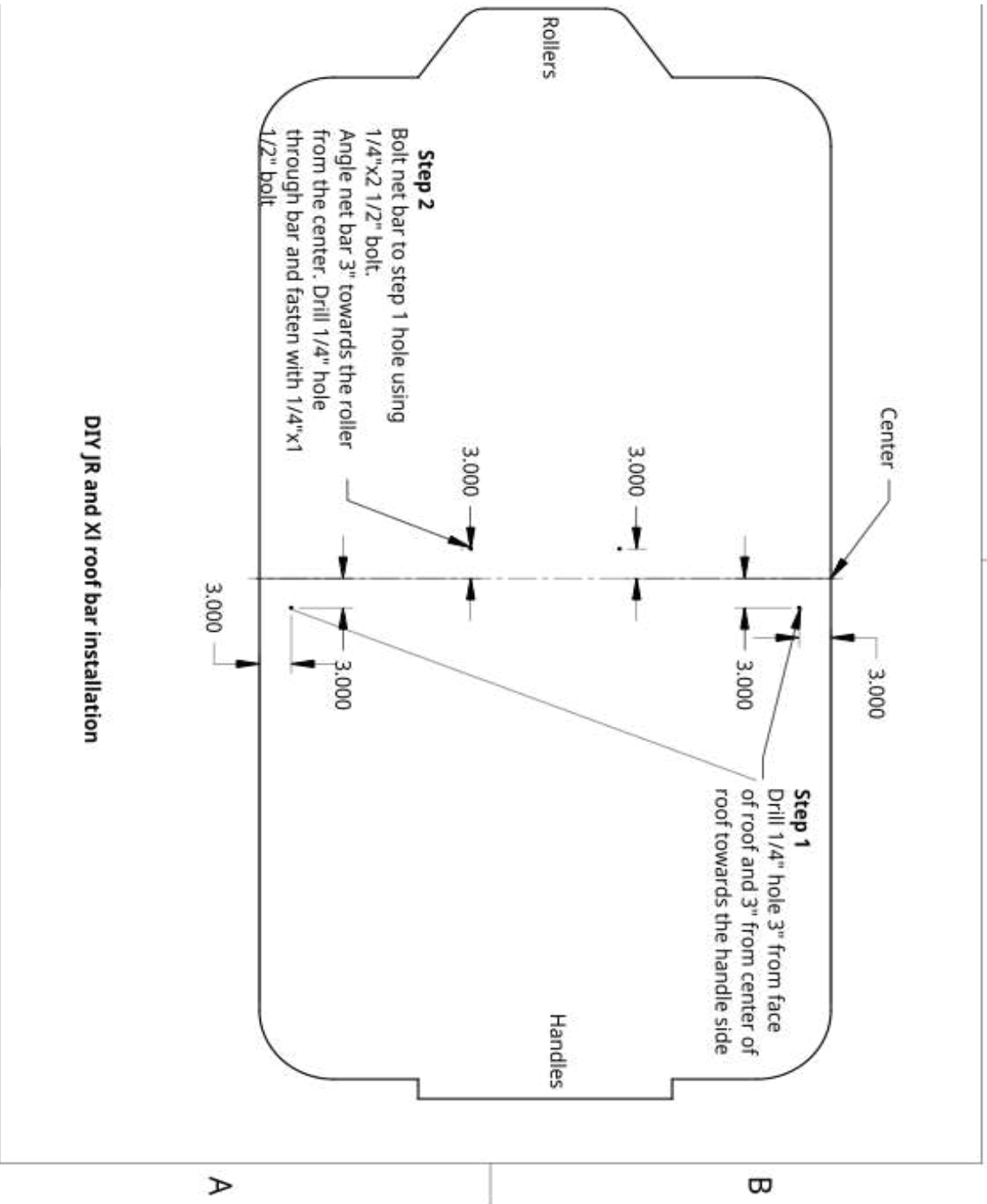
FEEDING AND LOADING INSTRUCTIONS

- Release roller locks
 - Be sure to unlatch roof to net cables
 - Release handle end of both nets exposing full access to the floor
 - Fill feeder with bales
 - Grab slack from one net, wrap around bales and lock handle into position
 - Cut and remove twines, Wrap second net around bale and lock handle into position
 - Set roller locks in the working position (horizontal)
 - Attach both roof to net latches
 - If horses are new to net feeding, pull some good feed through the holes of the netting in various spots for them to start
 - If possible, introduce the HayBoss Feeder to your animals with supplemented feed to eliminate frustration.
 - We do offer a paw bar if you notice that a horse is pawing at the net causing premature wear.
 - Rods, replacement nets and parts are also available
- Follow directions and enjoy all the benefits of being a new HayBoss Feeder Owner

Remember there's no loss with HayBoss!
Done right the savings are amazing!

JR Roof Diagram (Bottom side)





DIY JR and XI roof bar installation

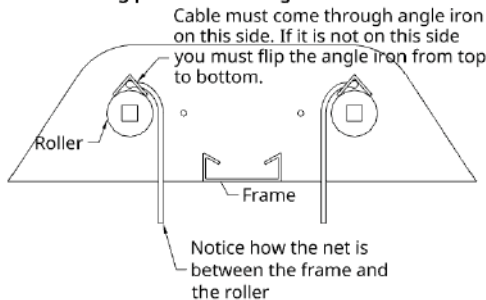


HayBoss Feeders Net Install Instructions

These instructions will show you how to connect the net to the feeder.

Tools needed: two 1/2" wrenches

Top view showing placement of angle irons and net and cables



Step 1



Step 2

Note: Spring loaded rollers will already be pre loaded and held with a 1/4" x 3" bolt through the roller disc and the roller frame top.

There is a 1"x 1" square tubing connected to the net on the handle end and a 1"x 1" angle iron connected to the net on the roller end.

Step 1-Unroll the net. Pull the angle iron end through the space between the frame and the roller. Place one end of the angle iron into the bottom bracket on the roller. Be sure the cables at the top and bottom of the angle iron are facing the other roller. If they are not you will have to flip the angle iron end for end.

Step 2- Place bottom end of angle iron into the bottom bracket on the roller.



Step 3



Step 5

Step 3- Bow the angle iron out enough so that it will slide into the top bracket. Do this by pulling the middle of the angle iron out while holding the top against the roller.

Step 4- Undo the Velcro strap from the roller and install tightly around the middle of the roller and the angle iron.

Step 5- Latch the handle. With help have someone pull the net out while you remove the $\frac{1}{4}$ " x 3" retaining bolt from the roller disc. The person holding the tension can now slowly release as the net winds around the roller. Place the bolts inside the tool tube for future use.