

# How to Build a Beater Bar:

## Materials for 1 Bar, (2-3 Bars can be used simultaneously):

- 1 – 2x4 (Use 8'8" for top pad bar, 8' for side pad bar(s))
- 1 – 27"x8' sheet of Metal Diamond Mesh Lath (Home Depot sku# 0000-382-727)
- 24 – Lath Nails or Screws (With a flange or washer large enough to prevent the mesh from being pulled off)
- 24 – Fender Washers (Only needed if flanges on fasteners are too small)
- 2 – Bar Clamps 0" - 8" grip range. (Jorgenson #3712-HD Bar Clamps or equivalent)
- 12 – 12" or longer Heavy Duty Zip Ties

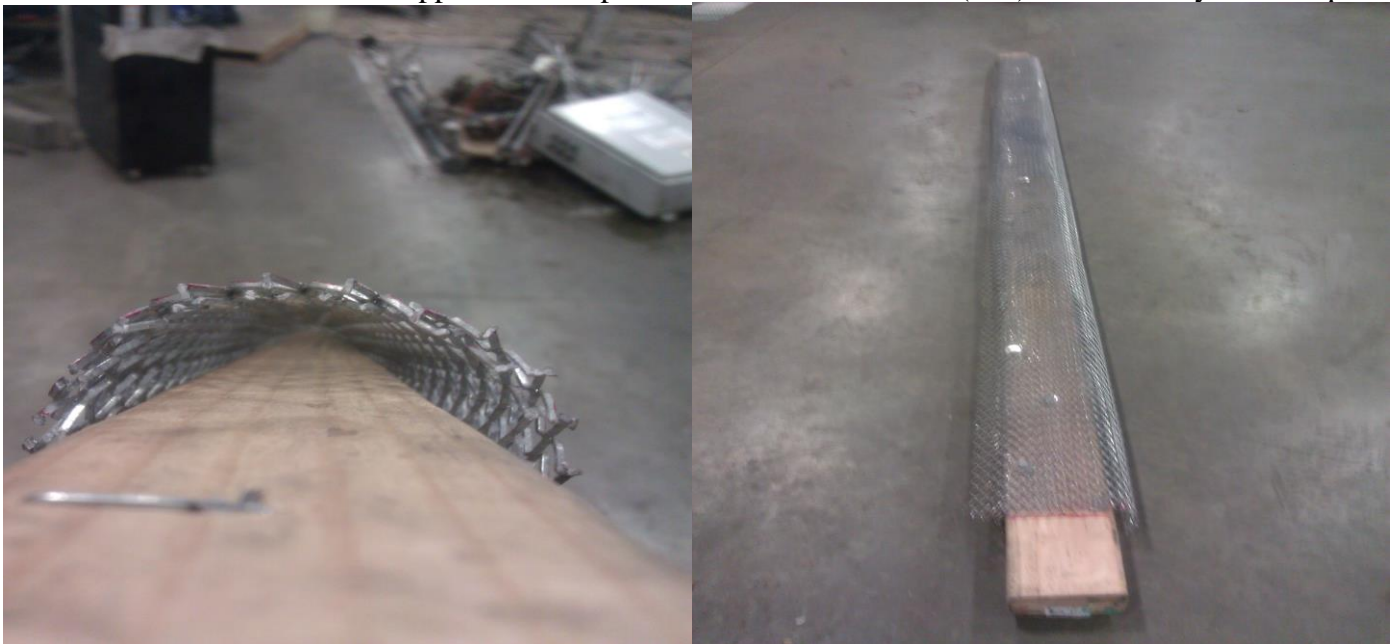
## Tools:

Drill or powered screwdriver with #2 Phillips bit / Hammer (If using Nails instead of screws) / Pair of work gloves / Tin Snips / Tape Measure

## Assembly:

1. Take a look at the picture of the finished bar.
2. Trim mesh from 96" in length to 88" using the 2x4 as a straight-edge (You'll have a 27" x 88" piece when done, discard the leftover)
3. Center the Mesh on the 2x4
4. Attach the cut side of the Mesh to the 2x4 starting near the top edge of the wide side of the 2x4, centered between the lines on each end. Fasten using lath nails (or alternate) 2-3" in from each end and every 8" in between.
5. Roll mesh around 2x4 as tight as you can roll it (a gap around the narrow edge is normal).
6. Fasten the remaining factory edge to the 2x4, wherever it ends up, to the 2x4 using the same spacing in step 4.

The finished bar should appear like the picture. Please call Sean at (800) 328-7434 if you have questions.



# Polisher Pad Cleaning Using a Beater Bar

**These instructions are written for a Broadway Equipment Company Trained Service Technician.**

**Call Broadway if you have any questions on this procedure (800) 328-7434**

## Equipment:

1. Wet Suit
2. Pressure Washer
3. Beater Bar
4. Safety glasses
5. BYO
6. Hudson Sprayer
7. Painters Plastic
8. Duct Tape
9. Shop Rags
10. Jack & Wooden Blocks (Recommended for older machines with 4 Motion Control Flow Adjusters or no easy way to stop the machine travel.)

## General Guidelines

1. Check Clamps Regularly throughout Procedure; always check clamps immediately after installing bar.
2. All Procedures can also be done “Dry” to attempt to resolve minor issues before committing to a full wash
3. Remember, not all polisher bays are designed to handle polisher washing. Pay attention to the wall material and electrical to prevent accidental damage to either, protect water-sensitive items appropriately.
4. Depending on severity of cleaning, 1 gallon of BYO will clean all pads. Too much chemical will only increase the time needed to rinse the cloth and not improve the cleanliness versus the correct amount.
5. Verify pad speeds are correct at the average running temperature before beginning. Adjusting pad speeds after this procedure is not recommended.
6. The pads are clean when they look clean; once you determine the pad is clean, proceed to the next step
7. Some pad deterioration is normal; stop and call Broadway if deterioration appears excessive for the time run against the beater bar.
8. **Do Not Run Beater Bar more than 45\* minutes per direction!**
9. Continually wetting pads while they are beating against the beater bar is normal, especially in hot dry climates.
10. Once you’re comfortable with the process, you can use two bars at the same time to clean two side pads at once.

## Setup:

1. Move machine as close as possible to the drain/door.
2. Run Polisher to a spot where the Reversing Switch can be easily shuttled.
3. Turn Polisher Motion Control Stop-Valve to the “Off” position.
  - a. If there is no Motion Control Stop-Valve & 2 Motion Control Flow Adjusters:
    - i. Close Both Motion Control Valves (Note approximate position before closing)
  - b. If there is no Motion Control Stop-Valve & 4 Motion Control Flow Adjusters:
    - i. Jack Up Drive Wheels off track and secure polisher on Blocks for procedure
    - ii. If this is not possible, contact Broadway Equipment Company before adjusting the Motion Control Valves

## Top Pad:

1. Lower Top Pad.
2. Using clamps, secure the Beater Bar to the gussets of the top pad carriage as shown in pictures.
  - a. Be sure that metal mesh does not contact the crossbar and damage the paint.
  - b. Protect gussets where clamps will be applied to protect the paint on the gussets from damage
3. Turn on Polisher briefly 10 seconds or so, then stop machine and re-check clamps are secure.
  - a. Use two clamps per side if Beater Bar continues to shake loose
4. Wet Cloth with water, then apply appropriate cleaning chemical using Hudson Sprayer.
5. Run Polisher for 15-45 minutes in 1<sup>st</sup> pass (depending on severity)
6. Stop Polisher, double check to be sure clamps are tight, re-wet cloth with water if necessary.
7. Reverse polisher direction and run for 15-45 minutes (depending on severity)
8. Stop Polisher, remove the Beater Bar.
9. Rinse pad thoroughly

## Side Pad Installation:

1. If necessary, reposition Polisher to a spot where the Reversing Switch can be easily shuttled and where the center of the side pad, in the retracted position is approximately centered between the bolting flanges of the Polisher Track.
2. Turn Polisher Motion Control Valve to the "Off" position
3. Using 1 Clamp, Secure the Beater Bar to the INSIDE of the Arm such that when the polisher is running it will not stall the drive motor or reduce the normal operating speed. (Protect the paint on the arm from scratching when the bar is attached using a rag)
4. Place the bottom of the Beater Bar on side of the track so that it is secured at the corner created by the track and bolting flange in the position that prevents the arm from pulling the bottom of the bar into the pad.
5. Turn on Polisher briefly 10 seconds or so, then stop machine and re-check clamps are secure and bottom of bar is "Trapped" in the correct spot. (See Diagram & Pictures)
6. Wet Cloth with water, then apply appropriate cleaning chemical using Hudson Sprayer.
7. Run Polisher for 15-45 minutes depending on severity.
8. Stop Polisher and Reverse Direction Repeating Steps 3-7
  - a. **IMPORTANT: When rotation is reversed, the bottom of the bar needs to be relocated to the opposite side of the track to prevent the pad from "kicking" the bar out at the bottom (See Diagram)**
9. Stop Polisher, remove the Beater Bar.
10. Rinse pad thoroughly

## Before you leave:

1. Clean the polisher frame and surrounding area
2. If you can, leave the polisher running to "Spin-Dry" the cloth. If possible, designate someone who will be responsible to turn the machine off before store closing
3. Provide instruction to the appropriate manager on inspecting and using the polisher the next day before leaving.

**Top Pad Beater Bar Installation:** Be sure Mesh has clearance from carriage crossbar to prevent paint from scratching:



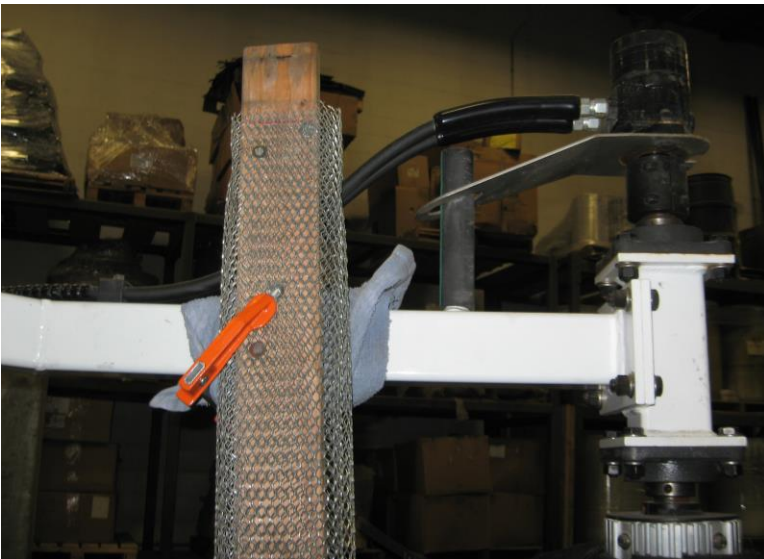
Attachment Detail:



Note: An 8' long bar, as shown in the pictures, will work, but is prone to splitting at the ends when the clamps are being tightened, forcing the need to replace the board more often. An 8' 8" long board for the Top Pad Beater Bar is now being recommended.

### **Side Pad Attachment**

Always Clamp Top of Bar to the Inside of the Arm as Shown. Note the Shop Cloth protecting the paint from damage:



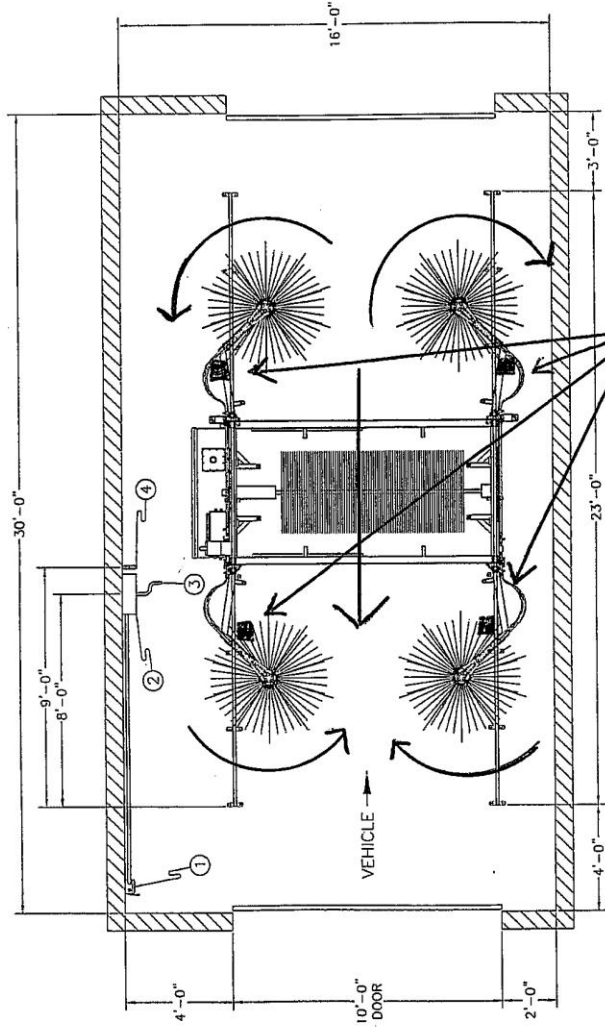
Sample of “Trapping” the Bottom of the Beater Bar. Remember to “Trap” the bottom such that the rotating pad cannot pull the bottom of the bar into itself or kick the bottom of the bar away from itself. Option: Drill a ½” hole on the floor end of the bar and use 1-2 heavy zip ties to hold the bar in place at the track.



**See Positioning Diagram on next page.**



**BROADWAY'S ALL CLOTH ROLLOVER POLISHER  
STANDARD FLOOR PLAN**



NOTE:  
ADDITIONAL ACCESSORIES WILL  
REQUIRE ADDITIONAL CONTROL  
WIRING AND EXACT PLACEMENT  
DEPENDS ON BAY CONFIGURATIONS.

**BASIC REQUIREMENTS**

MACHINE HEIGHT: 10' - 6"  
POLISHER ELECTRIC:  
(CHOOSE ONE)  
60 AMP 3PHASE 208V  
60 AMP 3PHASE 230V  
30 AMP 3PHASE 480V

**FLOOR PLAN - ELECTRICAL/PLUMBING**

SCALE: 1/2" = 1'-0"

Purchaser Must Provide and Install The Following Equipment.  
Electrician/Plumber Must Make All FINAL Connections.

- ① PROVIDE NEMA 12 DISCONNECT FOR POWER TO POLISHER
- ② 1/2" AIR LINE WITH BALL VALVE SHUT-OFF TO CONNECT TO ROLLOVER POLISHER. POSITIONED 8'-0" FROM THE ENTRANCE END OF THE TRACK AND APPROX. 14" UP FROM FLOOR OR AS CLOSE TO THE CEILING AS POSSIBLE
- ③ S.O. CONDUIT TO LOCK CONNECT FROM REAR TO POLISHER. THE POLISHER MANUFACTURER WALL THROUGH THE S.O. CONDUIT WHICH IS TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR.
- ④ 1/2" AIR LINE WITH BALL VALVE SHUT-OFF TO CONNECT TO ROLLOVER POLISHER. POSITIONED 8'-0" FROM THE ENTRANCE END OF THE TRACK AND APPROX. 14" UP FROM FLOOR OR AS CLOSE TO THE CEILING AS POSSIBLE

Bottom of Bar  
1st Pass

BROADWAY'S ALL CLOTH ROLLOVER POLISHER - 16' X 30' BAY	
STANDARD MODEL NO.	1630-30
MANUFACTURE DATE	12/23/05
DATE	
Broadway Equipment Company	
TITLE	SFP-POLISH-30x16BAY
DATE	
BY	Roller Polisher
CHECKED	
SCALE	1/2" = 1'-0"
SHEET	1 OF 1