



INSTALLING THE BOOMLESS ASSEMBLY



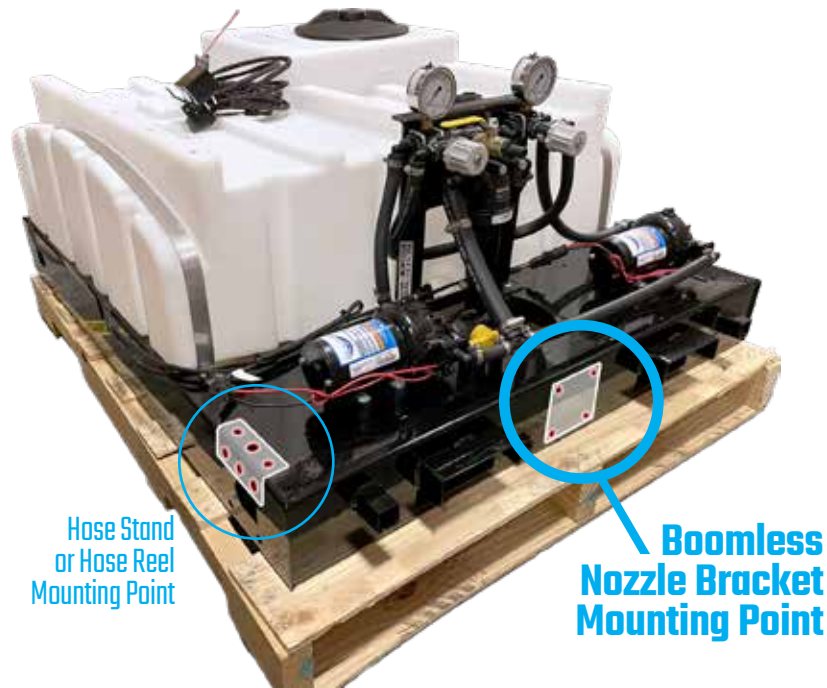
INSTALLATION MANUAL
517-04-BB

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Installing the Boomless Bracket + Tips



Hose Stand
or Hose Reel
Mounting Point

Boomless
Nozzle Bracket
Mounting Point

The folding bracket for the boomless nozzles bolts into four holes in the center of the sprayer's rear frame, between the two fork receivers.

1. Unbox your boomless bracket. You should have 1 folding bracket, 1 tip mounting plate assembly, 2 hoses, 1 hitch pin, 4 hose clamps, 4 bolts, & 4 nuts. You will also need 1 Left and 1 Right Boominator boomless spray tip (which are not included in the kit, but usually sold with the sprayer).
2. Bolt the bracket to the four holes in the center of the rear frame, between the two fork receiver holes. Make sure the bracket is level and tighten the bolts. The bracket should fold up, not down.
3. Slide the Tip Mounting Plate assembly onto the bracket's vertical arm with the threaded holes for the spray tips facing rearward. The bracket should be roughly 36" off the ground when sitting in the vehicle's bed. Make sure the plate is level, then tighten the nuts on the U-bolt to lock it in place.
4. Attach the Left & Right Boominator nozzles on their respective sides. Apply some thread tape or pipe dope to the threads and tighten them onto the bracket. Tighten until the tips snug up, then tighten a little more to adjust them for the optimal spray pattern (minimum two revolutions).

When the nozzles are installed correctly, the logo should be perfectly level, with the screw at the top. If they are crooked, your spray pattern may have gaps. Adjust the tips so that the left and right spray patterns slightly overlap in the center (see illustration).



Plumbing the Supply Hoses

Attach the included hoses onto the two rearward pointing hose barbs on the Pressure Control Center.

The left nozzle will attach to the hose barb coming out of the brass valve (pictured in red). The right nozzle will attach to the only hose barb coming out of the right valve (pictured in yellow).

1. Slide the supplied hose clamp on the hose. Lubricate both the inside of the hose and the hose barb with a little water or lubricant to help you slide the hose on the barb. Slide the hose on the hose barb fitting.
2. Slide the hose clamp up so it will clamp down on the hose barb through the hose and tighten it with a phillips screwdriver or nut driver until it is tight. You want it tight, but don't crush the hose barb fitting.
3. Repeat the above steps to attach the other end of the hose to the corresponding barbs on the tip mounting plate assembly.

CONGRATULATIONS!

Your sprayer is assembled and ready to spray!



Folding the Boomless Nozzle Mount for Storage

Your BENCO Boomless kit comes with a folding boomless nozzle mount. This is a simple convenience feature that makes it easier to move your sprayer with a forklift and more compact for storage when you aren't spraying. Folding or unfolding it is a very simple toolless operation.

Folding Up the Boomless Mount:

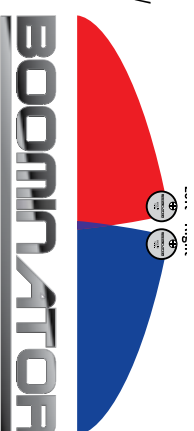
1. Remove the pin that holds the mount in place.
2. Rotate the boom ninety degrees upward.
3. Line up the boom's pin holes with those on the vertical arm of the mounting bracket.
4. Insert the pin. Easy as pie.
5. Check the rubber feed lines for pinching. You may have to manually adjust them to keep a smooth arc in the hose.
6. To unfold, repeat in the reverse order.



Speed & Pressure Chart for Standard Boominator Boomless Nozzles

All Regular Pattern Spray Nozzles were tested at a height of 36 inches. (Recommended operating height is between 18 & 48 inches.) Fresh water used for all testing. These nozzles are designed for left-hand or right-hand mounting and provide a wide spray pattern with approximately 15° of kickback under the nozzle.

When using left-hand and right-hand nozzle together, adjust nozzles to allow for enough kickback overlap between the nozzles to prevent streaking in spray coverage. Nozzles can be rotated to adjust distance of spray pattern outward or amount of kick back under the nozzle.



1160 LEFT or RIGHT 1/4" MNPT		SPEED (MPH)											
		2	3	4	5	6	7						
PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE										
		20	1.0	16 ft.	15.5	10	8	6	5	4.5			
		30	1.2	16 ft.	18.5	12.5	9	7.5	6	5.5			
		40	1.4	16 ft.	21.5	14.5	11	8.5	7	6			

1250 LEFT or RIGHT STANDARD TIP 1/4" MNPT		SPEED (MPH)											
		2	3	4	5	6	7						
PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE										
		20	1.5	16 ft.	23	16	12	9	8	7			
		30	1.7	16 ft.	26	18	13	11	9	8			
		40	2.0	16 ft.	31	21	16	12	10	9			



1400 LEFT or RIGHT 1/4" MNPT		SPEED (MPH)													
		2	3	4	5	6	7	8	9	10	11	12			
PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE												
		20	1.7	17 ft.	25	17	12	10	8	7	6	5.5	5	4.5	4
		30	2.0	17 ft.	30	19	15	12	10	8	7	6.5	6	5	4.5
		40	2.5	17 ft.	36	24	18	15	12	10	9	8	7	6.5	6

All information provided by manufacturer and deemed reliable. Your experience may vary. For more information, visit boominator.com.