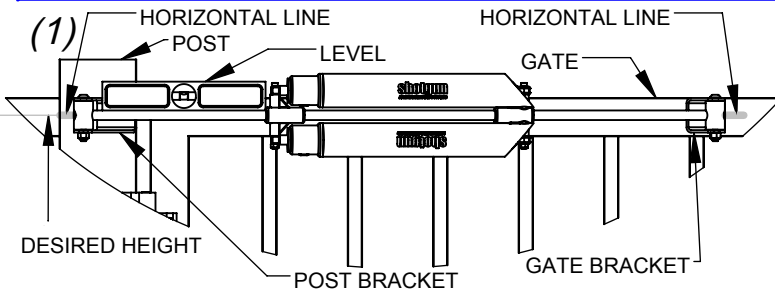


SHOTGUN GATE CLOSER

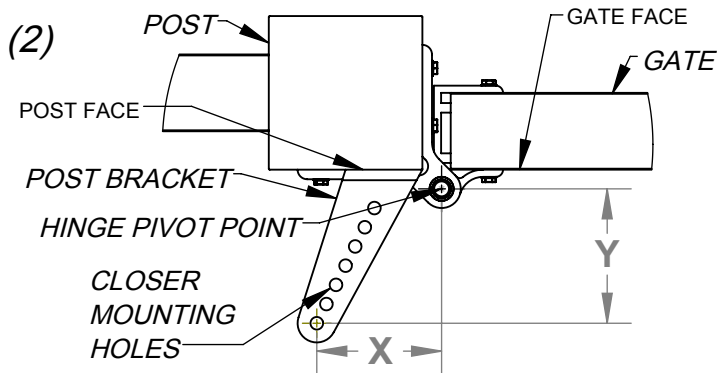
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INSTALLATION, ADJUSTMENT AND MAINTENANCE INSTRUCTIONS

NOTE: Before beginning, check the gate, hinges and latch for problems and make sure all are in good condition and functioning properly. Now is a good time to clean, lubricate and level the gate.



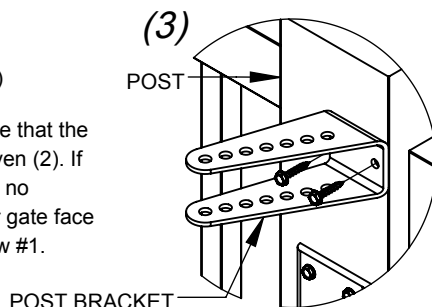
1. Install *Gate Bracket* (5C) and *Post Bracket* (5B) on *Closer Assembly* (5A) with nuts finger tight. Hold *Closer Assembly* at desired height and approximate mounting location while ensuring the closer is level with gate. Draw a *Horizontal Line* marking the center of each mounting bracket.



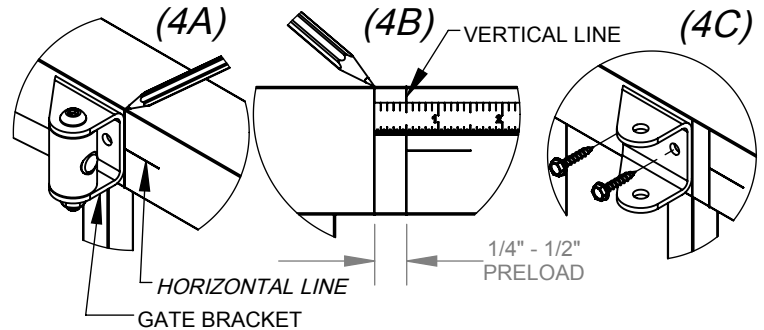
2. Remove the *Post Bracket* from the *Closer Assembly* and hold or clamp the bracket to the post with the center of the bracket on the line drawn previously. All measurements are made from the *Hinge Pivot Point* to a *Closer Mounting Hole* in the *Post Bracket*. The ideal position for most applications is position #1 from the chart below, then #3 and so on. The X value should be as close to the maximum value as possible without going over for most installations. Using a smaller X value will decrease the power of the closer. (Note: The *Post Bracket* can be mounted with the slope in either direction as required)

3. Attach the *Post Bracket* to the *Post* with the included screws at the location chosen in step 2. (3)

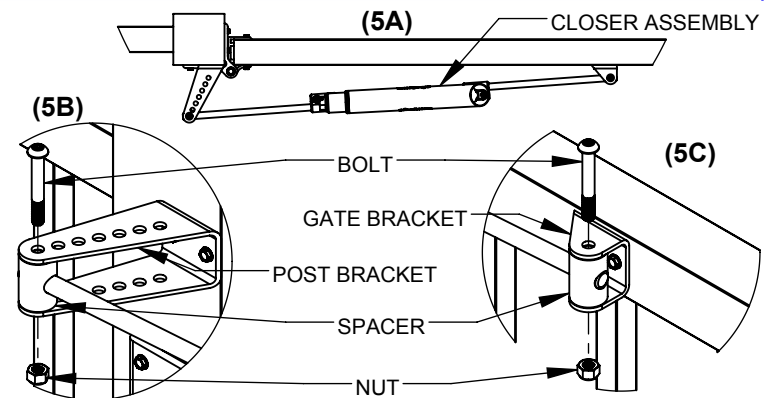
Note: These instructions assume that the *Gate Face* and *Post Face* are even (2). If the *Gate* is set back less than 1" no adjustment is necessary. If your gate face is set back 1" - 4", do not use row #1.



	Y	X	POWER ADJUSTMENT RANGE	
			MAXIMUM	MINIMUM
1	Y = 4.00"	X = 2.58"	X = 2.58"	X = 0.64"
2	Y = 3.75"	X = 2.88"	X = 2.88"	X = 0.91"
3	Y = 3.50"	X = 3.18"	X = 3.18"	X = 1.19"
4	Y = 3.25"	X = 3.49"	X = 3.49"	X = 1.46"
5	Y = 3.00"	X = 3.79"	X = 3.79"	X = 1.74"
6	Y = 2.75"	X = 4.10"	X = 4.10"	X = 2.01"
7	Y = 2.50"	X = 4.41"	X = 4.41"	X = 2.29"

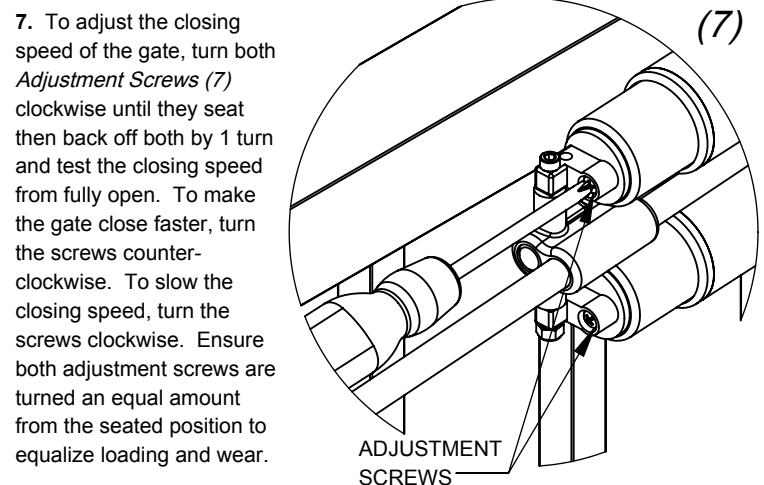


4. Mount closer in mounting hole selected in step 2. With the gate closed and latched, align the *Gate Bracket* with the *Horizontal Line* made in step 1 and draw a *Vertical Line* at the end of the bracket (4A). Remove the closer and draw another *Vertical Line* 1/4" - 1/2" closer to the *Post Bracket* / hinge side of the gate to preload the closer (4B). Attach the *gate bracket* to the gate using the supplied screws at this location (4C).



5. Install the *Closer Assembly* in the mounting brackets as shown in (5A) using the *Closer Mounting Hole* chosen in step 2. Install the bolt through the bracket, spacer and rod on each end then attach nut (5B+C). Tighten nut until it contacts the bracket then back off 1/2 - 1 turn.

6. Check to ensure the gate opens, closes, and latches properly. The preload setting should hold the gate closed when the latch is opened.



Note: To prevent damage, a gate stop must be installed to limit the gate from opening more than 90 degrees.