



DOUBLE L
GROUP LLC

DirectJet Curved Inlet



INSTALLATION MANUAL

REV01202025

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1.1 INTRODUCTION

Our Rack and Pinion driven inlet is engineered for optimal air throw and distribution. Its straightforward design ensures minimal maintenance requirements. The air inlet is equipped with brush seals to eliminate air leakage when closed, ensuring efficient functionality. Before installing the DirectJect Curved Inlet, we highly recommend that you carefully review this manual. Keeping it safely on hand for future reference will ensure that you can always access important information regarding operation, maintenance, and troubleshooting.

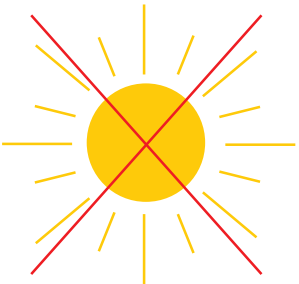
1.2 NOTES

Double L reserves the right to make alterations to specifications, quantities, dimensions, and other product details for production or other reasons after publication. While we strive to provide accurate and complete information, Double L makes no warranty or representation regarding the suitability of the product for any particular purpose.

It is essential that this manual is read and followed by all personnel involved in the system's operation, installation, and maintenance. This includes, but is not limited to, those responsible for: Operation including preparation, troubleshooting, and cleaning; Maintenance including servicing, inspection, and repair; and Deactivation including shutdown and disposal procedures.

1.3 DELIVERY CHECK

Before opening any boxes, carefully inspect the external packaging for any signs of damage. If any damage is found, contact your forwarding agent immediately before proceeding with unpacking. If the packaging appears safe, proceed to open the boxes. Carefully compare the contents of each box with the item list provided. Verify that the quantities and types of products match the list. If there are any discrepancies, such as missing or incorrect items, please contact Double L immediately for resolution. Retain all packaging and documentation until the issue is resolved. Please note that the boxes may contain small and numerous items that are easily lost. If the products are not being used immediately, do not open the boxes. Instead, keep them sealed and store them in a safe, dry, and secure location to prevent loss or damage. Retain all delivery documentation, including item lists, packing slips, and any communication with the forwarding agent or Double L. This will be essential in case of any future issues or claims.



DO NOT STORE BOXES OR INLETS IN DIRECT SUNLIGHT.

IF YOU DO NOT FOLLOW INSTRUCTIONS, WARRANTY WILL BE VOID.

1.4 SAFETY & WARNINGS

Warning



This product has inherent dangers, which can cause damage or loss to persons or equipment if the warnings in this manual are not adhered to. Please read and follow all instructions.

Personnel Requirements



This product must only be used by persons adequately trained in the hazards, dangers, and risks of the equipment.

All users of this product must be trained in the following areas:

- Health and safety hazards relating to use of this machine throughout its entire life cycle
- Devices provided for safety of the operator
- Instructions for safe shutdown in case of emergency

The employer must assume the following responsibilities:

- To provide necessary personal protective equipment required
- To ensure normal maintenance operations are carried out
- To provide necessary repair parts in a timely manner

1.5 LIMITED WARRANTY

Double L Group, LLC ("Double L") warrants new Double L DirectJet Curved Inlet manufactured by Double L to be free from defects in material or workmanship under normal usage and conditions, for One (1) year from the date of installation by the original purchaser ("Warranty"). If such a defect is determined by Double L to exist within the applicable period, Double L will, at its option, (a) repair the Product or Component Part free of charge, F.O.B. the factory of manufacture or (b) replace the Product or Component Part free of charge, F.O.B. the factory of manufacture. This Warranty is not transferable, and applies only to the original purchaser of the Product.

Conditions and Limitations

THIS WARRANTY CONSTITUTES DOUBLE L'S ENTIRE AND SOLE WARRANTY AND DOUBLE L EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, EXPRESS AND IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSES. DOUBLE L shall not be liable for any direct, indirect, incidental, consequential or special damages which any purchaser may suffer or claim to suffer as a result of any defect in the Product. Consequential or Special Damages as used herein include, but are not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs, and operational inefficiencies. *Some jurisdictions prohibit limitations on implied warranties and/or the exclusion or limitation of such damages, so these limitations and exclusions may not apply to you. This warranty gives the original purchaser specific legal rights. You may also have other rights based upon your specific jurisdiction.*

Compliance with federal, state and local rules which apply to the location, installation and use of the Product are the responsibility of the original purchaser, and DOUBLE L shall not be liable for any damages which may result from non-compliance with such rules.

The following circumstances shall render this Warranty void:

- Modifications made to the Product not specifically delineated in the Product manual.
- Product not installed and/or operated in accordance with the instructions published by Double L.
- All components of the Product are not original equipment supplied by Double L.
- Product was not purchased from and/or installed by a Double L authorized distributor or certified representative.
- Product experienced malfunction or failure resulting from misuse, abuse, mismanagement, negligence, alteration, accident, or lack of proper maintenance, or from lightning strikes, electrical power surges or interruption of electricity.
- Product experienced corrosion, material deterioration and/or equipment malfunction caused by or consistent with the application of chemicals, minerals, sediments or other foreign elements.
- Product was used for any purpose other than for the care of poultry and livestock.

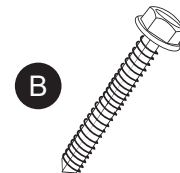
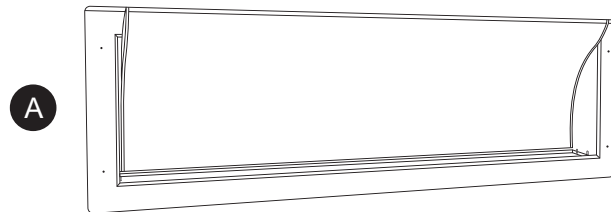
The Warranty and Extended Warranty may only be modified in writing by an officer of Double L. Double L shall have no obligation or responsibility for any representations or warranties made by or on behalf of any distributor, dealer, agent or certified representative.



1.6 PARTS LIST

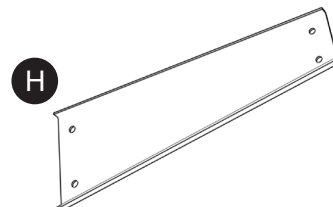
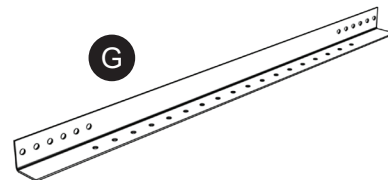
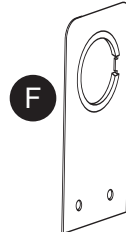
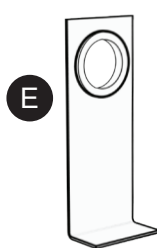
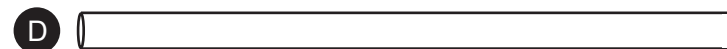
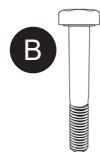
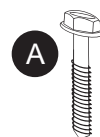
DirectJet 4413 Inlet Kit- Part #90574CH

Part #	Description	QTY./KIT
A 90570CH	Delux DirectAire Inlet	1
B 600086RN	2" Screws (Not Included)	8



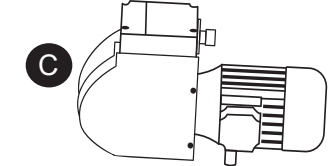
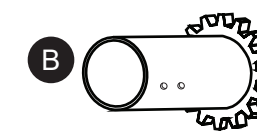
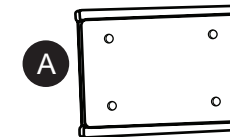
Flush/Offset Mount Pipe Kit- Part #31114/31118

Part #	Description	31114	31118
		QTY.	QTY.
A 031013	#10x1" Roofing Screw	4	4
B 031016	5/16"x1-1/2" Bolt, SS	2	4
C 031017	5/16" Nut, SS	2	4
D 031020	1" Pipe -10.5ft.	1	1
E 031043	Bronze Bushing, Right Angle	2	2
F 031053	Bronze Bushing	2	0
G 031031	Angle Iron -Mounting	2	0



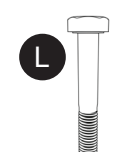
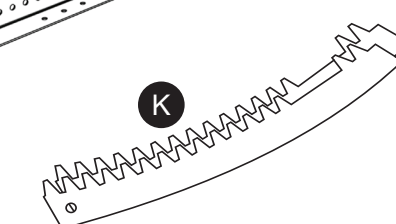
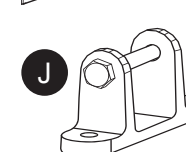
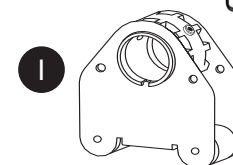
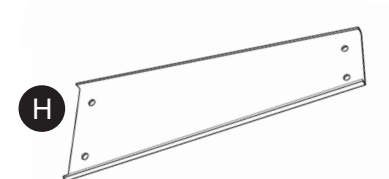
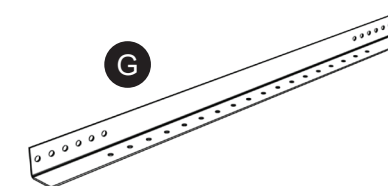
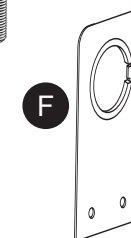
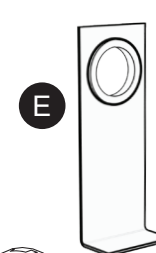
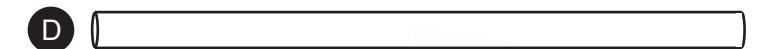
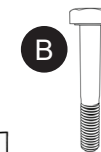
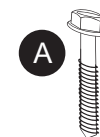
Winch Kit- Part #31112/31119

	Part #	Description	QTY./KIT
A	017009	Ecodrive300 Mounting Bracket	1
B	031042	1" Tube Sprocket	2
C	VARIES	Ecodrive300	1



Flush/Offset Mount Pipe Kit- Part #31113/31117

Part #	Description	31113	31117
		QTY.	QTY.
A 031013	#10x1" Roofing Screw	4	4
B 031016	5/16"x1-1/2" Bolt, SS	2	2
C 031017	5/16" Nut, SS	2	2
D 031020	1" Pipe -10.5ft.	1	1
E 031043	Bronze Bushing, Right Angle	2	2
F 031053	Bronze Bushing	2	0
G 031031	Angle Iron -Mounting	2	0
H 031032	Bushing Bracket, 16.5" Offset	2	0
I 031025	Pinion	2	2
J 031015	Rack to Door Mounting Bracket	2	2
K VARIES	Rack	2	2
L 031038	1/4"x2-1/4" Bolt, SS	1	1
M 600003BO	1/4" Nut, SS	1	1





Tools Needed

- Tape Measure
- Marker
- Rubber Mallet
- Level
- 9/32" Drill Bit
- 1/4" shallow socket
- String Chalk Reel
- Cordless Drill with Hex Head Driver
- Level
- (6) 2" Screws

WARNINGS

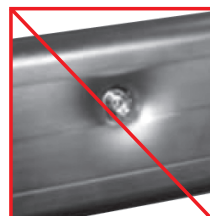
Please read before installing



USE OF METAL HAMMER CAN RESULT
IN DAMAGE TO INLET HOUSING!



A WIND DEFLECTOR MUST BE INSTALLED
TO PROTECT FROM DIRECT SUNLIGHT.
THE DEFLECTOR OPENING(S) MUST BE
EQUAL OR LARGER THAN THE INLET
OPENING.



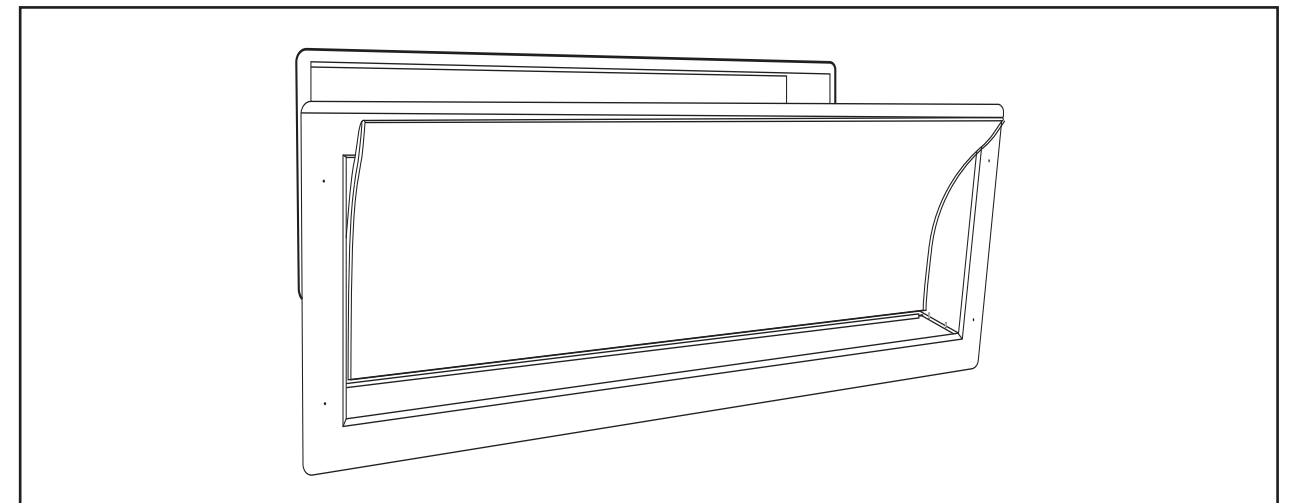
DO NOT OVER TIGHTEN SCREWS!
TIGHTEN UNTIL FLUSH, DO NOT DENT
THE HOUSING!

2. ASSEMBLY

2.1 INSTALLING INLETS

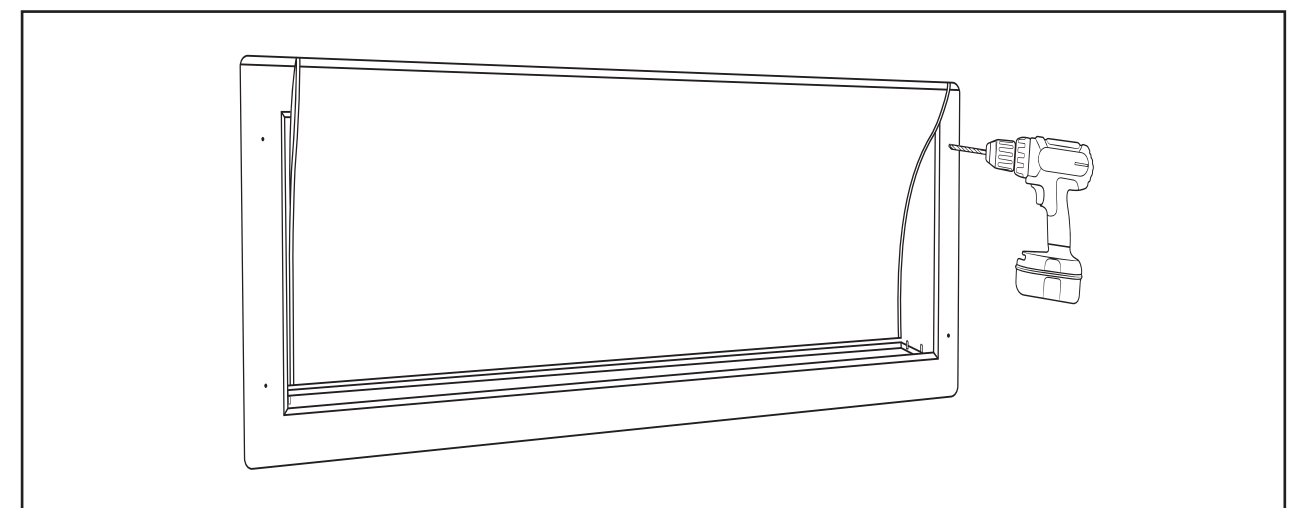
Step 1

Start by placing the flush mount inlets into the prepared rough opening in the wall. This should be done from the inside of the house.



Step 2

With inlet set in place, check with a level to ensure it is evenly placed. Fasten the end caps securely using (4) 2-inch screws.

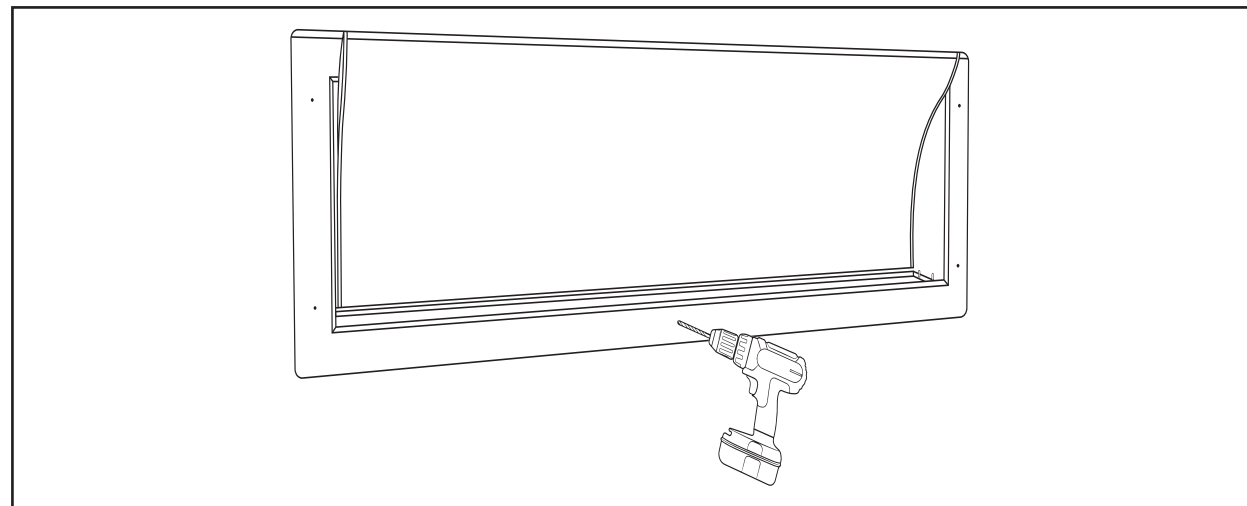


*Note 2" screws are not provided.



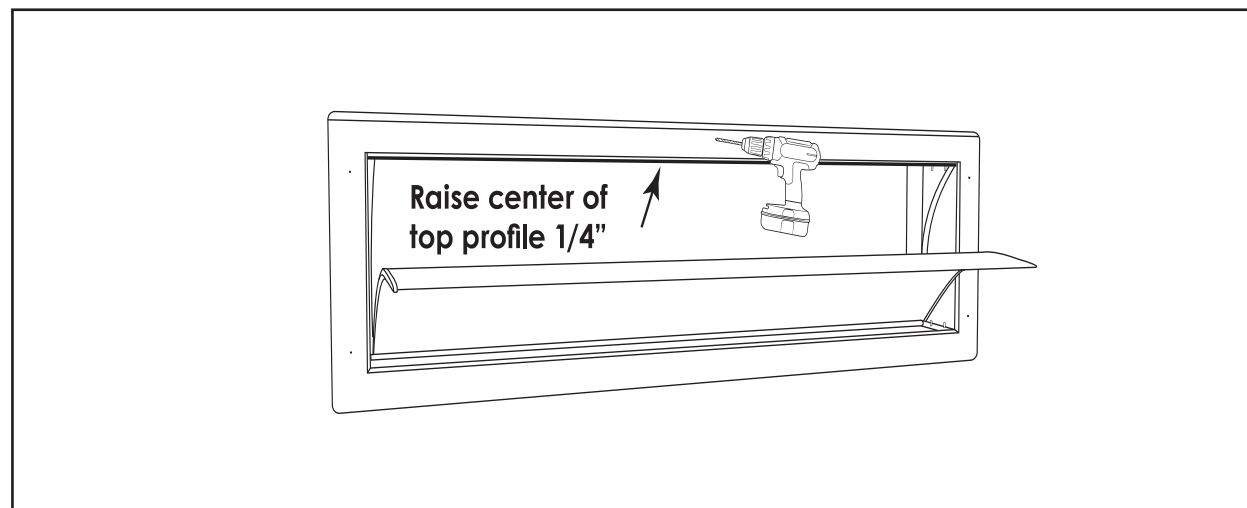
Step 3

Fasten (1) 2" screw into center of bottom profile. Be sure it's straight across bottom.



Step 4

Push slightly up in center of top profile (about 1/4"). Once in place, fasten to wall with (1) 2" Screw at the center. Make sure louver opens and shuts easily without binding.



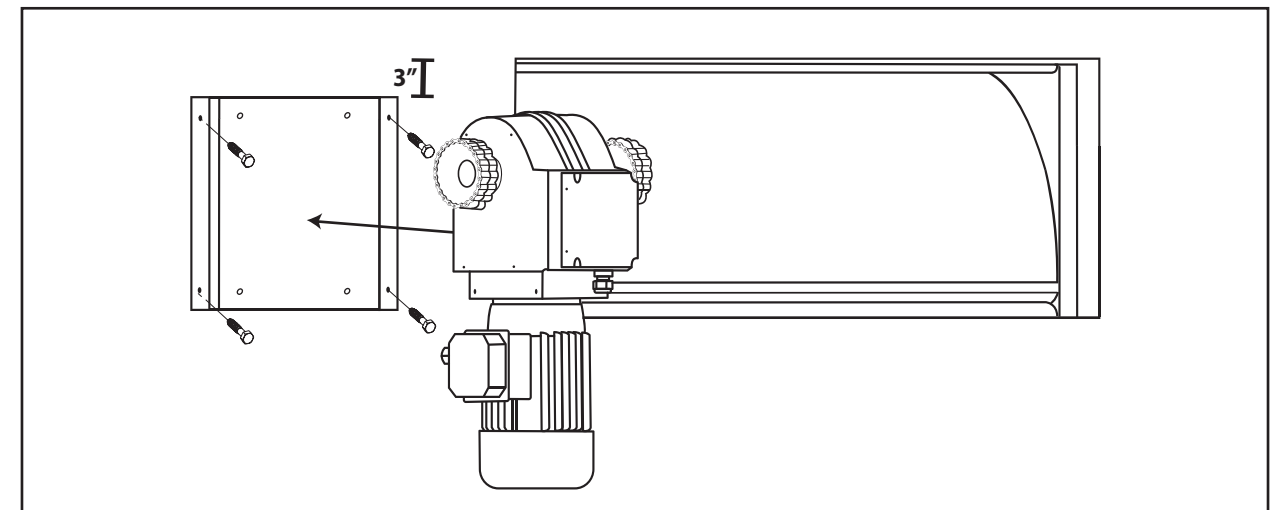
*Note: Follow these steps to continue installing the rest of the DirectJet inlets in your system.



2.2 INSTALLING ACTUATOR

Step 1

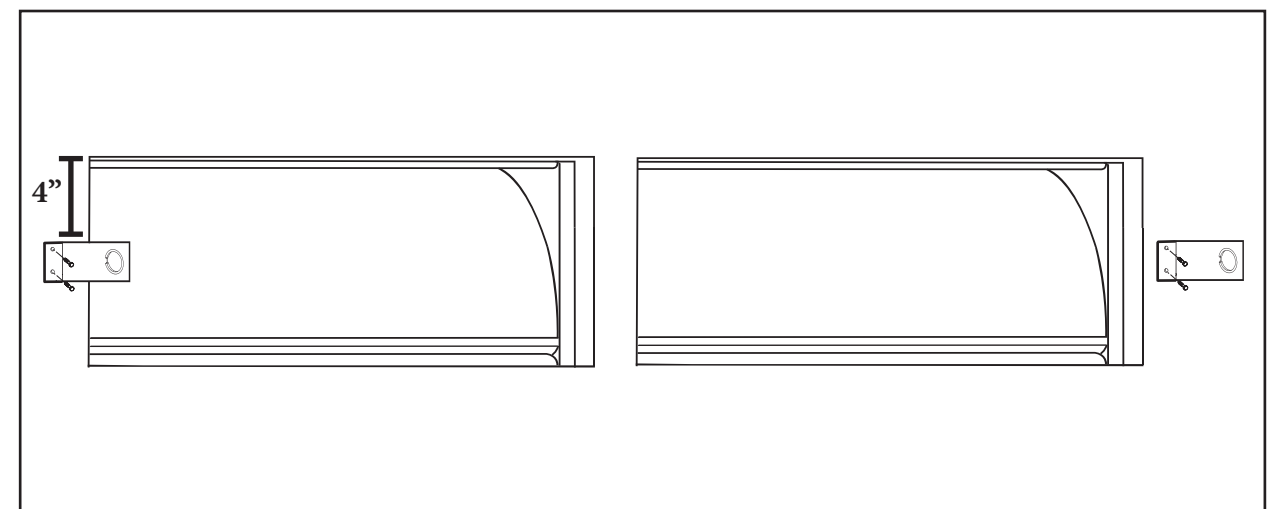
On the outside of the room of the inlets towards the middle of the whole set up, attach the actuator with (4) M10 Bolts to the Actuator Mounting bracket. Then attach the actuator and mounting bracket to the wall with (4) 5/16" x 3-1/8" Wood Screws. This should be placed where the top of the actuator bracket is 3" down from the top of the rough opening. Additional blocks may be needed to offer more support.



2.3 INSTALLING BRACKETS

Step 1

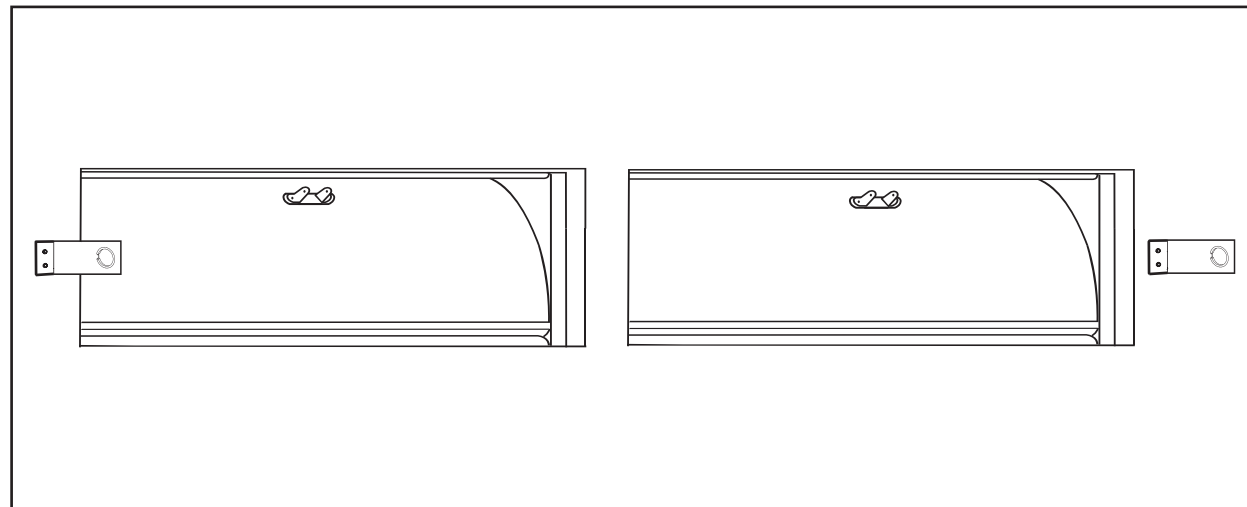
On the left side of the first inlet in the system secure a bushing bracket to the wall with (2) wood screws, this should be placed where the top of the bracket is 4" down from the top of the Rough Opening. Continue installing bushing brackets between every other door in the system.





Step 2

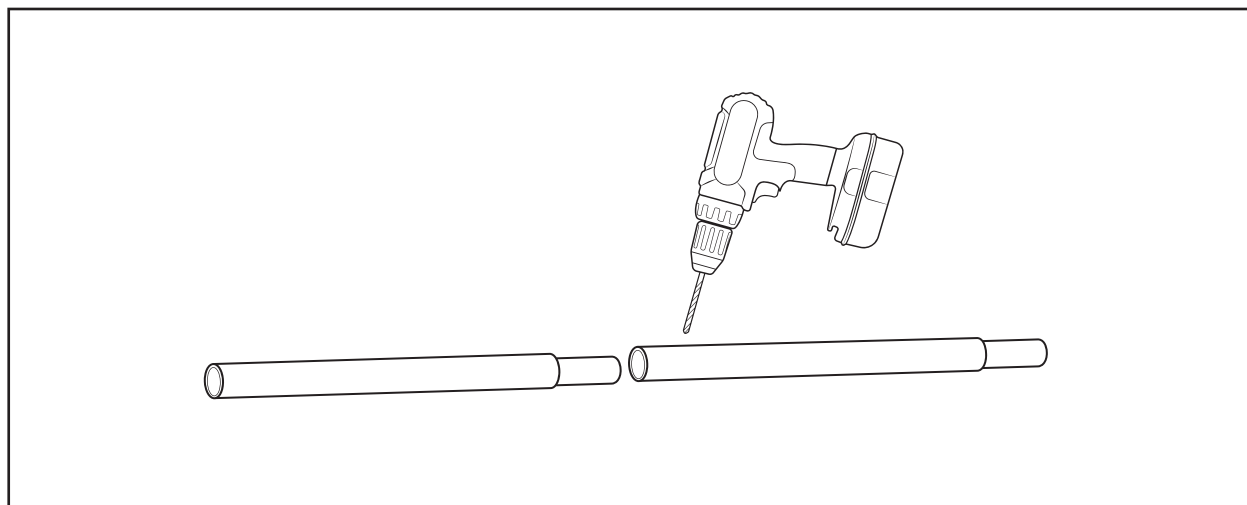
Start installing the Rack Mounting Bracket onto each inlet. This should be placed on the center of the inlet blade 6" down from the tip of the blade. Use the Rack Mounting Bracket as a guide and drill two holes through the inlet. With the holes drilled secure the bracket to the inlet with (2) 5/16" Bolts and nuts.



2.4 INSTALLING PIPING

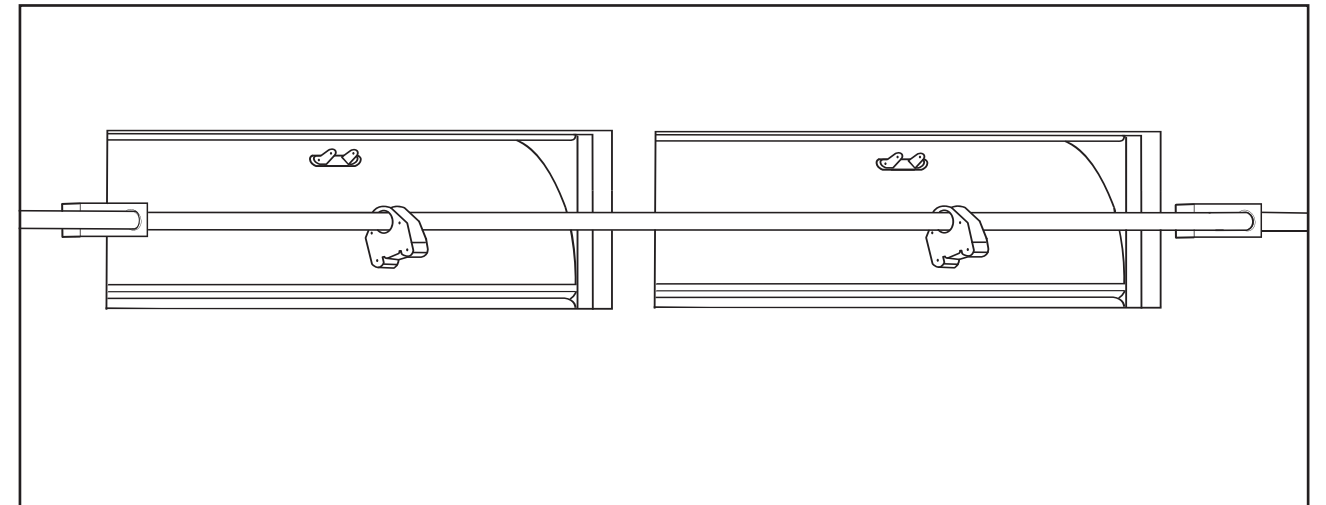
Step 1

Start preparing the 1" Galvanized Pipe for install, take one piece of pipe and slide the large end over the swaged end of another pipe and drill a $1\frac{3}{32}$ " dia. hole through the 2 pipes, 1 $\frac{1}{2}$ " from the end of the large pipe. Continue this for all the pipes in system. Set all drilled pipe aside for later installation. It may be helpful to mark each pipe as it is drilled so that when they are installed the pipes that are pre-drilled together will be installed together.



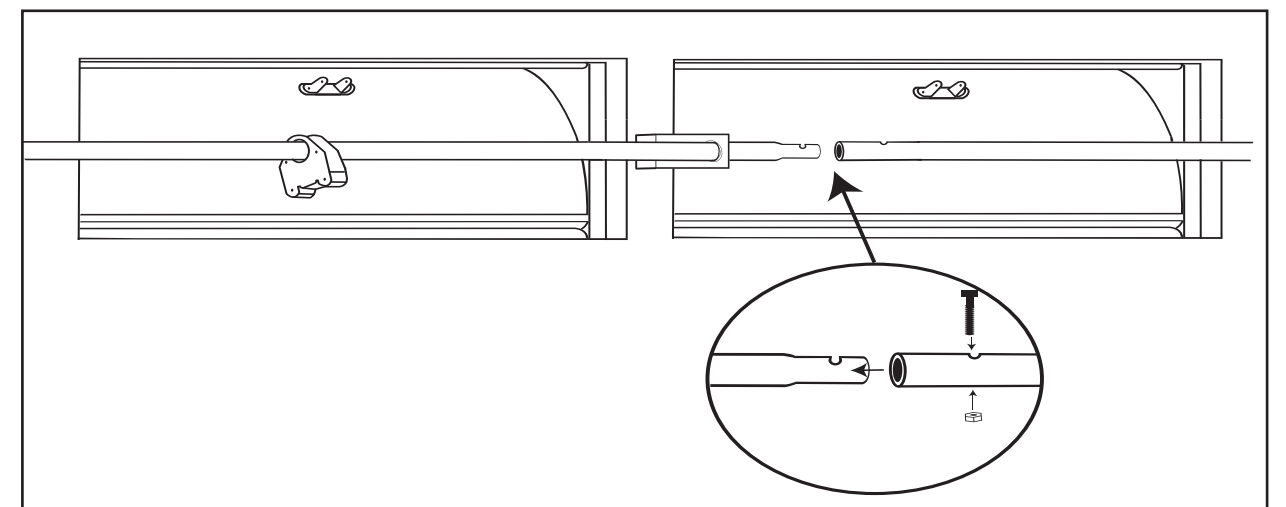
Step 2

Starting with the first two inlets in the system insert one of the pieces of galvanized piping through the first two Bronze Bushings in the system. Before sliding the pipe through the second bushing be sure to slide (2) Pinion Gears on for the two inlets.



Step 3

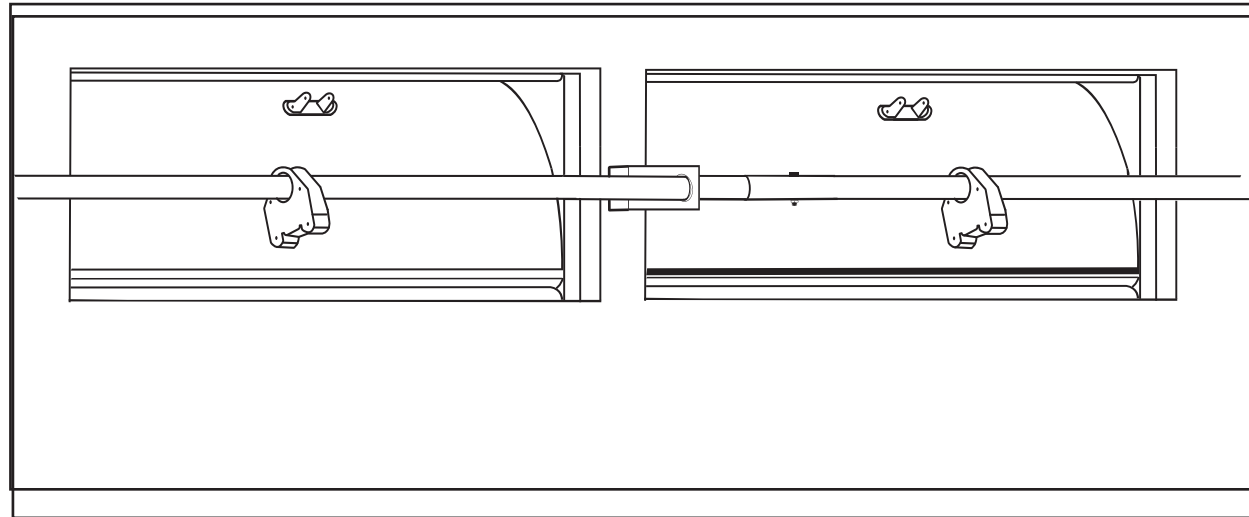
Install the next piece of piping by placing the swaged end on the large end and matching up the pre-drilled holes. Secure the pipes together with (1) 5/16" x 1-1/2" Bolt and 5/16" Nut. Be sure to place (2) Pinion Gears on the second pipe before inserting the other pipe end into a Bronze Bushing.





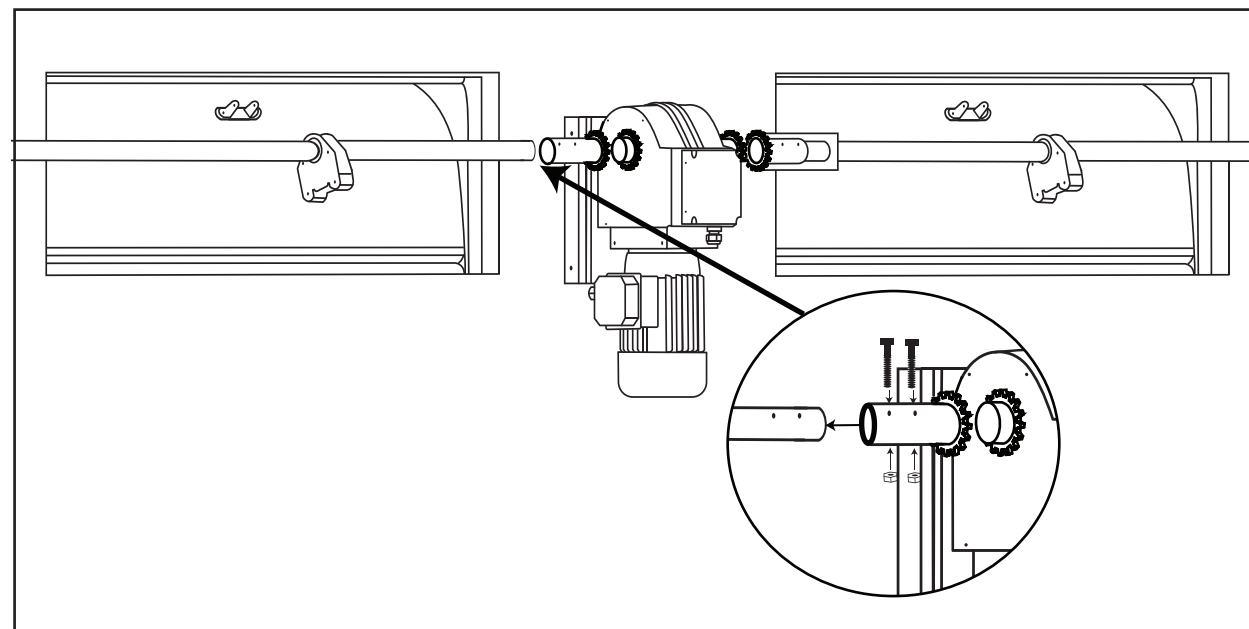
Step 4

Continue installing piping together through the rest of the system. Be sure to start over with the piping connection where the system actuator is mounted.



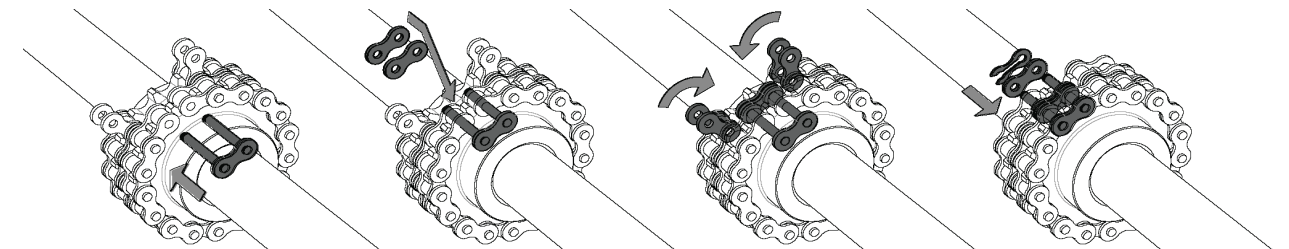
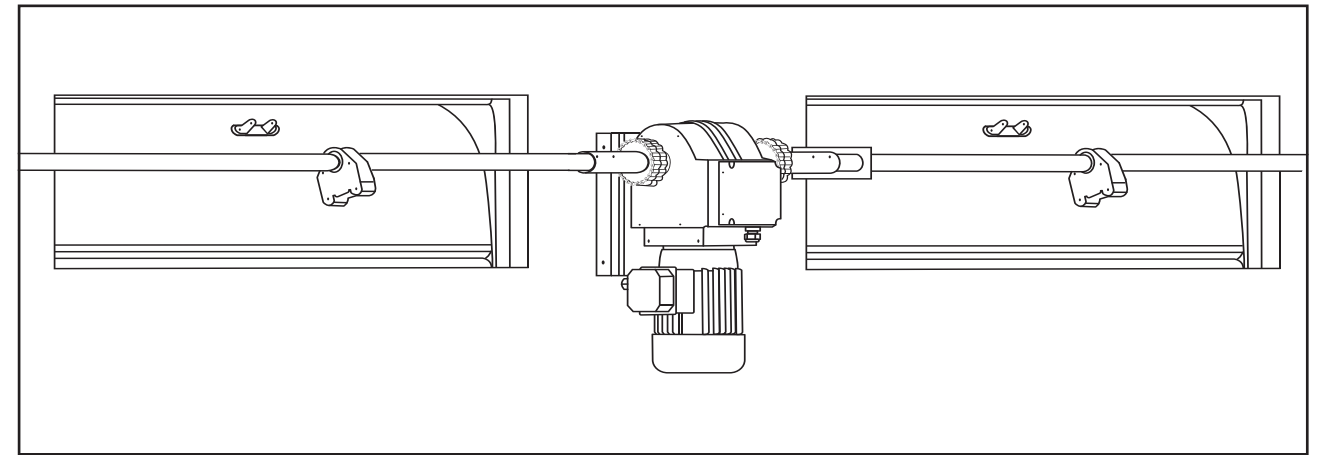
Step 5

Find the two ends of piping by the actuator and install Tube Sprockets on both ends. Using the two pre drilled holes in the Tube Sprockets as a guide, drill a $1\frac{3}{32}$ " dia. hole through the piping. Secure the Tube Sprockets onto the ends by placing (2) $5/16$ " x $1\frac{1}{2}$ " bolts and $5/16$ " nuts in the pre drilled holes.



Step 6

Attach the Tube Sprocket ends on the piping to the Mounted actuator using the supplied worm gears. See the diagram below for how to attach gears.

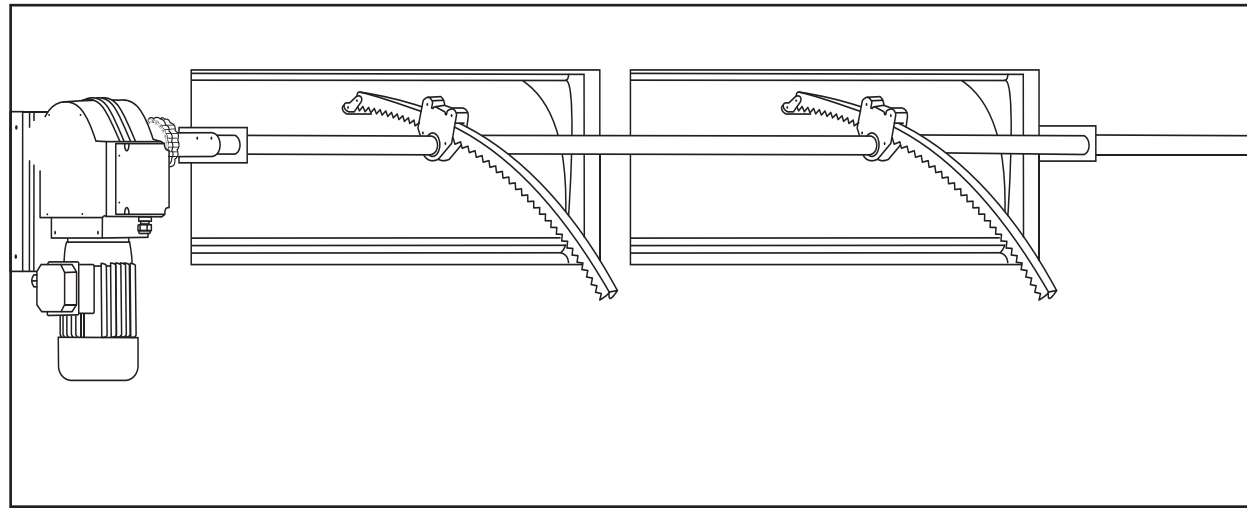




2.5 INSTALLING RACKS

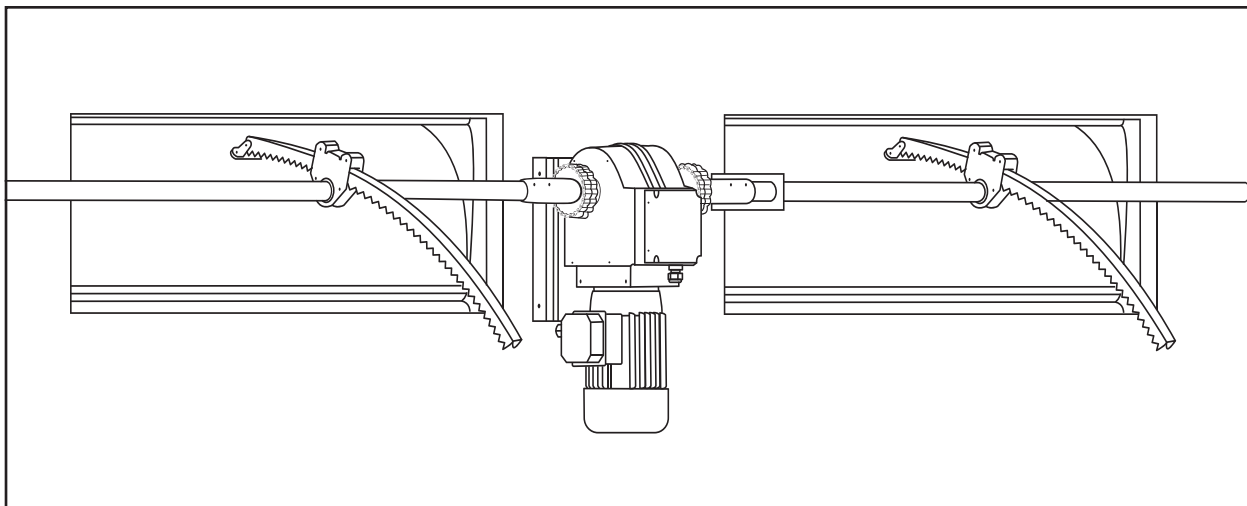
Step 1

Lastly insert a Rack into each Pinion Gear in the system. Secure the Rack to the Rack Mount on the door by placing (1) 1/4" x 2" bolt through the holes in the Mount and the Rack then secure with a 1/4" nut. Be sure to have the Rack with teeth side down.



Step 2

Before running the system be sure to go through and lightly grease all of the Pinion Gears for smooth operation as well as tighten all of the set screws.



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