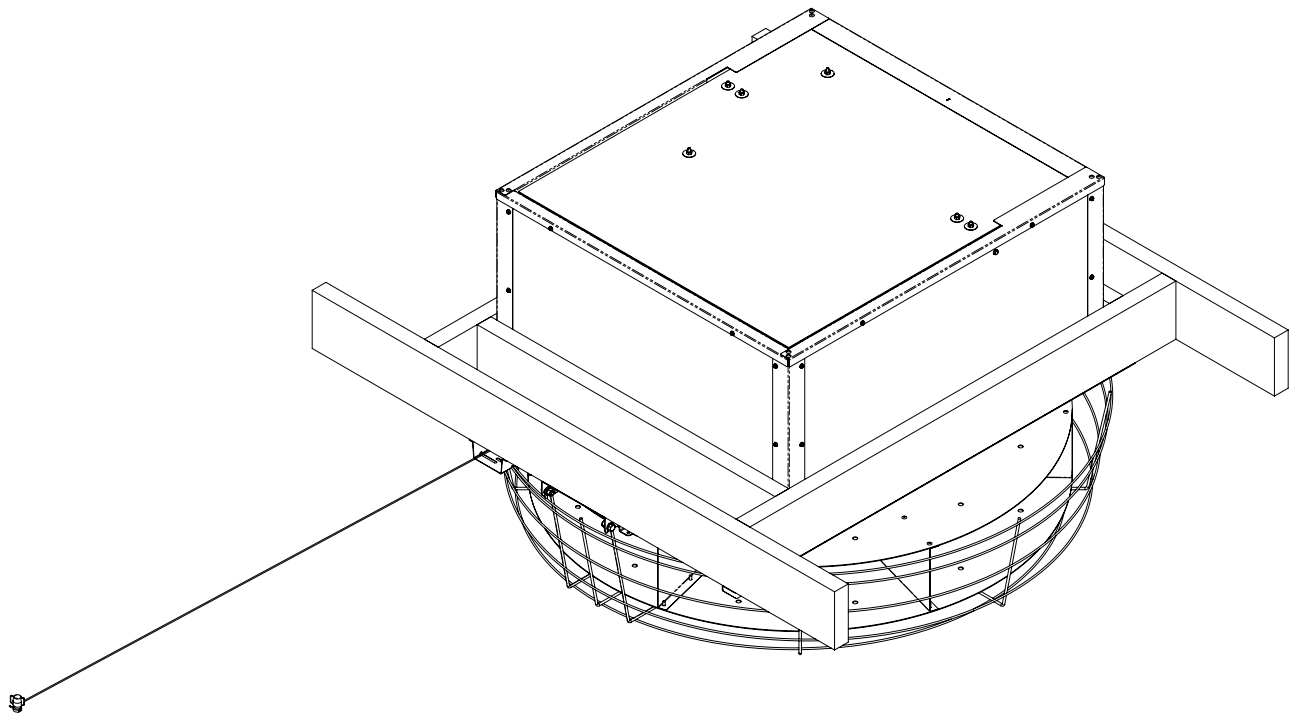




Attic Inlet

812305

Instruction Manual for installing
Inlet above Z-Pro® fans



990194

REV [A]

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VAL PRODUCTS, INC. WARRANTIES

For Warranty claims information, please see the “Manufactured Products Standard Warranty” form QMS101 available from Val Products, Inc. by:

- Phone: 1-800-998-2526
- Email: marcom@val-co.com
- Online: <http://val-co.it/warranty>

Conditions and Limitations:

- Products and Systems involved in a warranty claim under the “Manufactured Products Standard Warranty” shall have been properly installed, maintained and operated under competent supervision, according to the instructions provided by Val Products, Inc.
- Malfunction or failure resulting from misuse, abuse, negligence, alteration, accident or lack of proper installation or maintenance shall not be considered a defect under the Warranty.

Introduction

Attic Inlets come unassembled.

Please check your shipment for correct parts and condition.

- Read all safety information, instructions and illustrations before starting to install your new inlet. Please review the complete assembly manual before starting and be sure to check your shipment with the packing list for any shortages. Please report shortages promptly.

Symbols

Our concern is for your safety. The safety warnings are included in this manual as a guide to help and encourage the safe operation of your equipment. It is your responsibility to evaluate the hazards of each operation and implement the safest method of protecting yourself as owner and/or operator.



= CHECK - the details of all requirements, processes or procedures of instructions listed.



= NOTE - take notice this may help you!



= IMPORTANT INFORMATION - be sure to read!



= WARNING - The safety alert symbol is always used on warning signs that involve your safety or has extra significance since it is describing the importance of a feature or explaining a step to which you should pay close attention to avoid problems.

DANGER

Imminent hazard, if ignored
serious injury or death
WILL occur.

WARNING

Hazard is very possible and care
should be given as injury or product
function could be compromised.

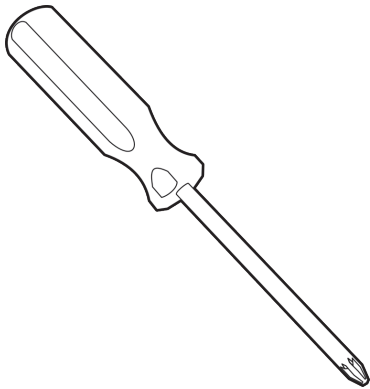
CAUTION

Potential hazard, if ignored minor
or moderate injury MAY occur.

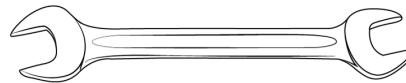
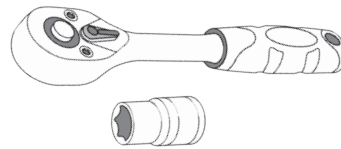
Tools Required

- *Phillips Screwdriver*
- *1/4" Nut Driver, 3/8" Socket - OR -*
- *Adjustable Wrench*

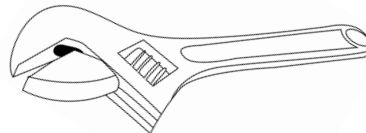
Phillips Screwdriver



***Socket Set, Open End Wrench, or
Adjustable Wrench***



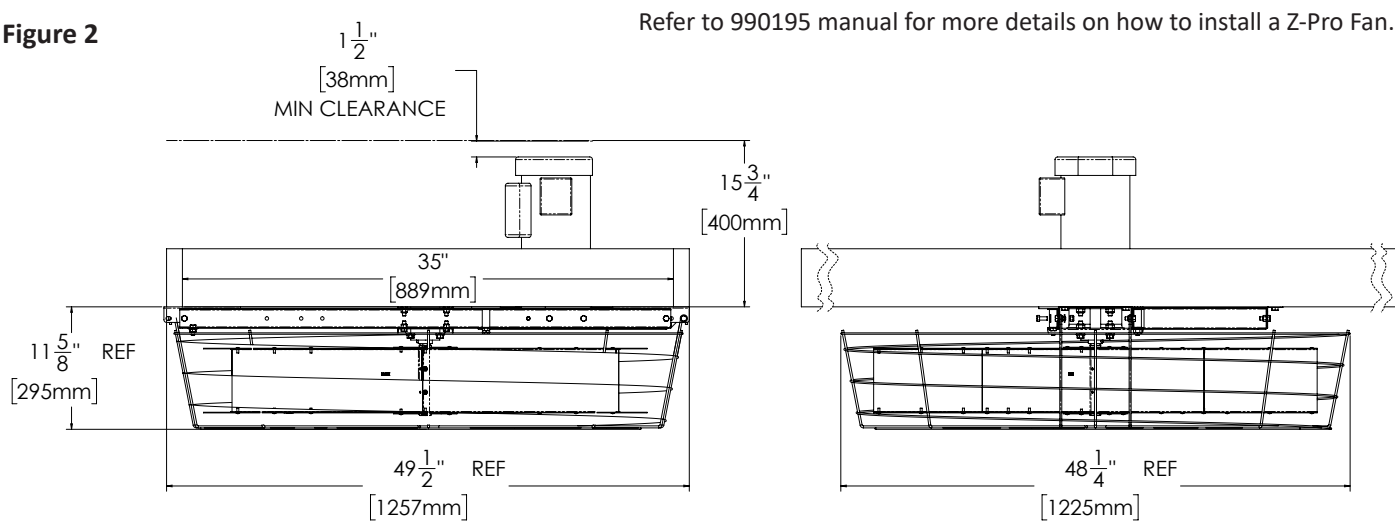
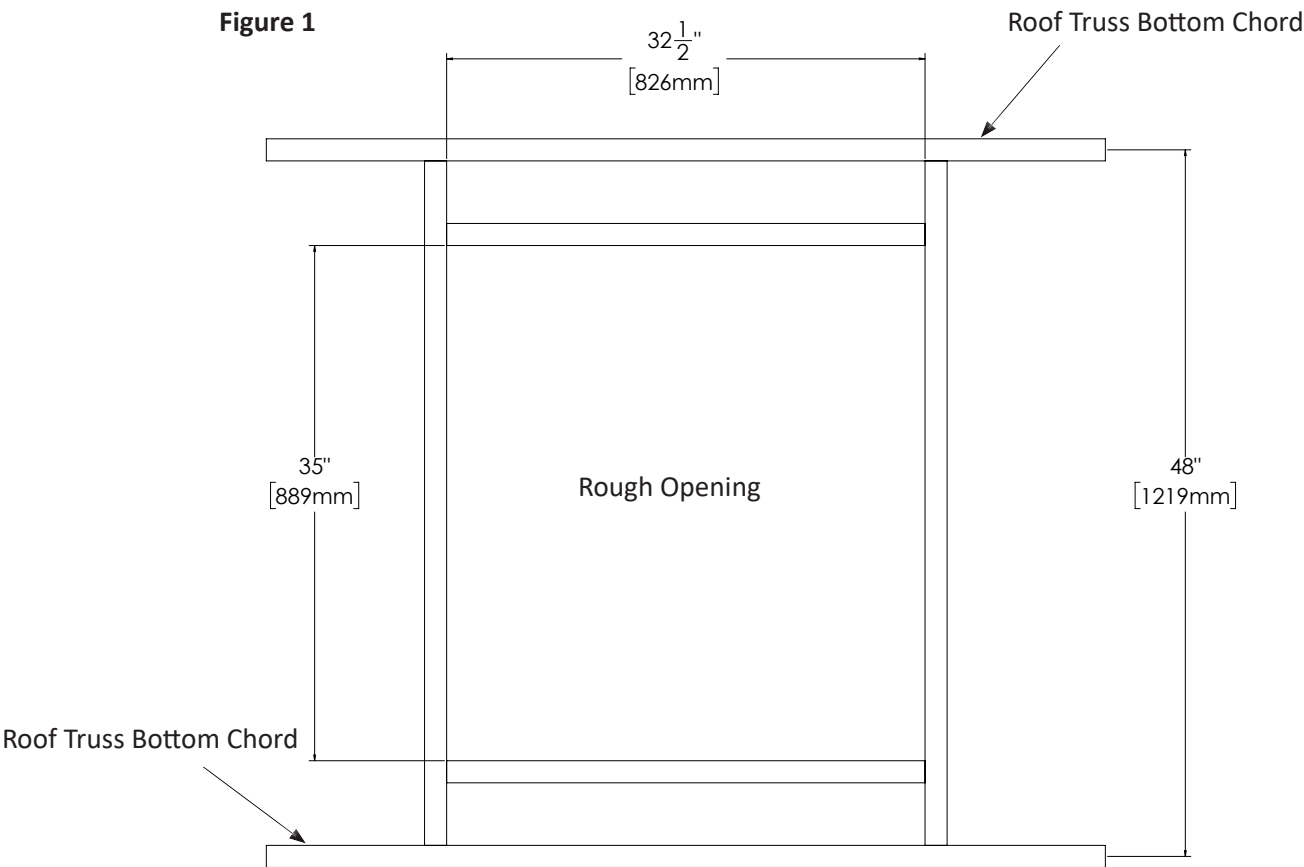
Nut Driver



Installation Instructions: Frame Assembly

Step 1: Assemble frame as shown below.

Note: Motor must have 1-1/2" clearance above it - See Figure 2.

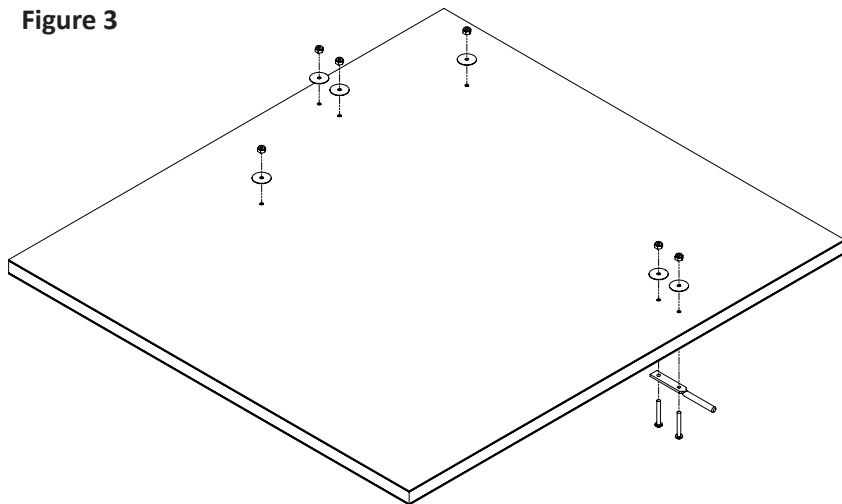


Installation of 972200, 972200-SC, 972220, 972220-SC creates additional loads on the building. The combined weight of the fan & attic inlet is 180 lbs. Consult with a local structural engineer to verify that your building can handle the required loads. VAL-CO is not responsible for building damage or personal injury due to inadequate structural support or improper use of fan.

Damper Door Assembly

Step 2: Assemble damper door as shown below in Figures 3, 4 & 5.

Figure 3



Top view of door with exploded hardware.

Figure 4

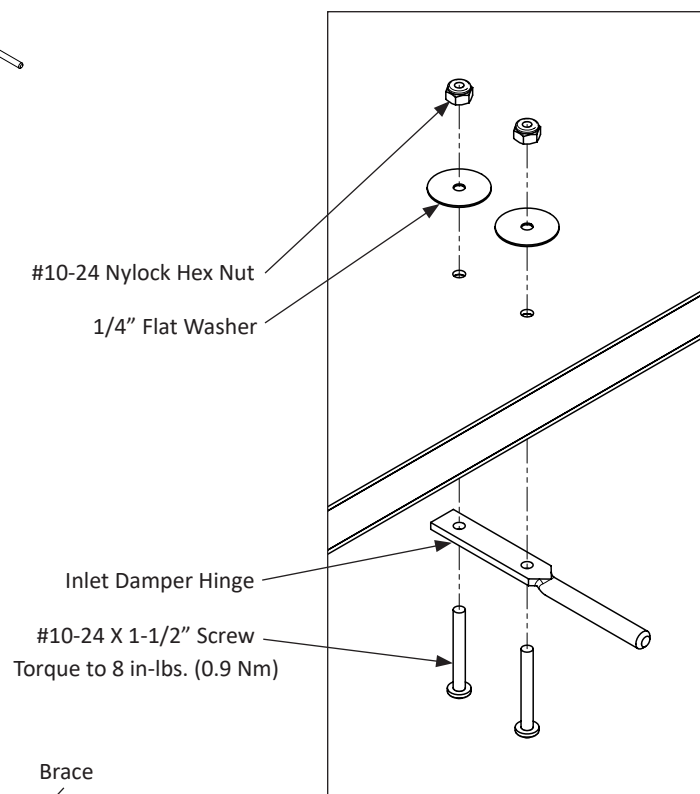
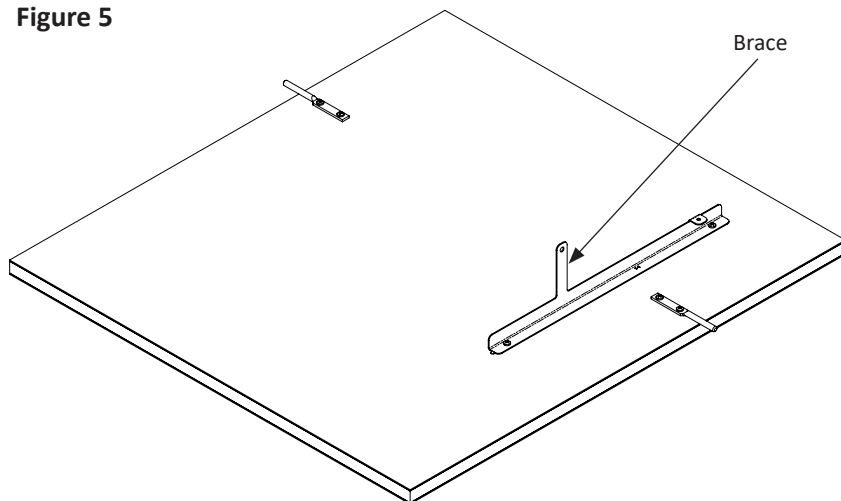


Figure 5



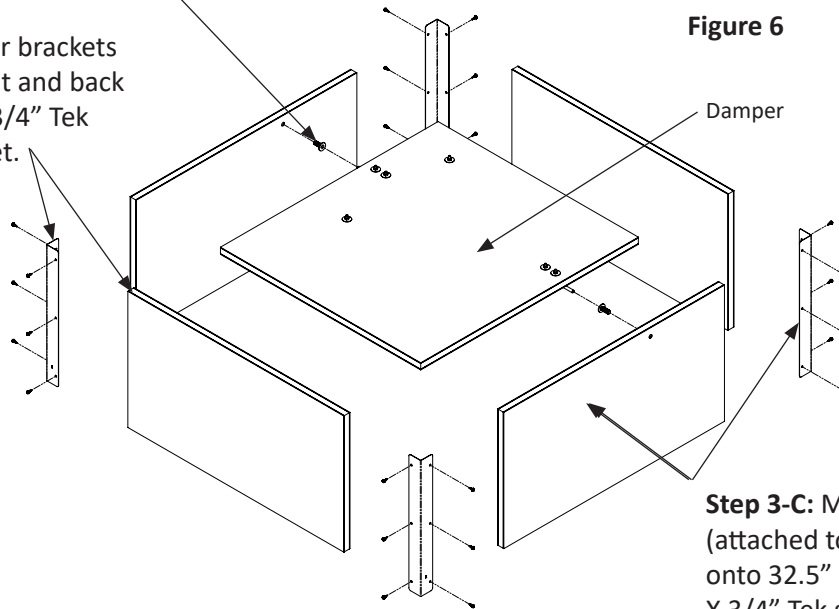
Bottom view of door (assembled).

Panel Assembly

Step 3: Assemble panels as shown below.

Step 3-A: Insert plastic hinge bushings into side panels, using the pre-drilled holes in the panels.

Step 3-B: Attach corner brackets to 31-13/16" long front and back panels. Use (3) #10 X 3/4" Tek screws for each bracket.

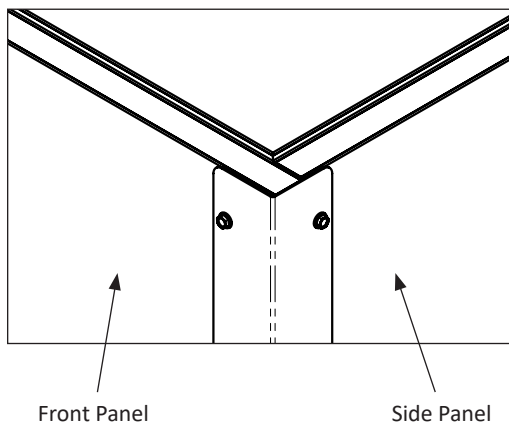


Step 3-C: Mount corner brackets (attached to front and back panels) onto 32.5" side panels. Use (3) #10 X 3/4" Tek screws for each bracket.

NOTE: Damper door must be installed into the plastic bushings at the same time as step 3-C.

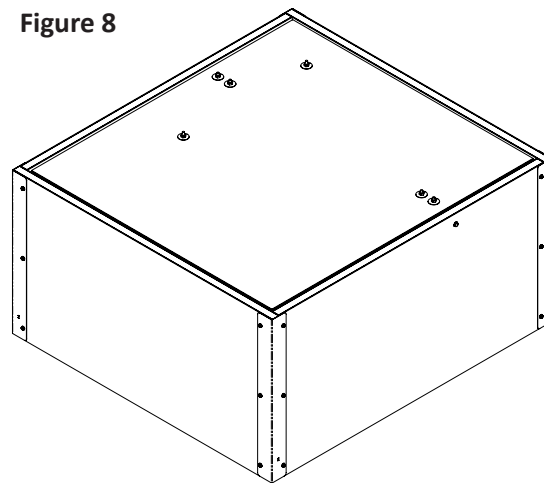
32.5" Side panels should be mounted on the inside of 31-13/16" long front and back panels, as shown in Figure 7.

Figure 7 (Detail View)



Assembled inlet panels as shown below..

Figure 8



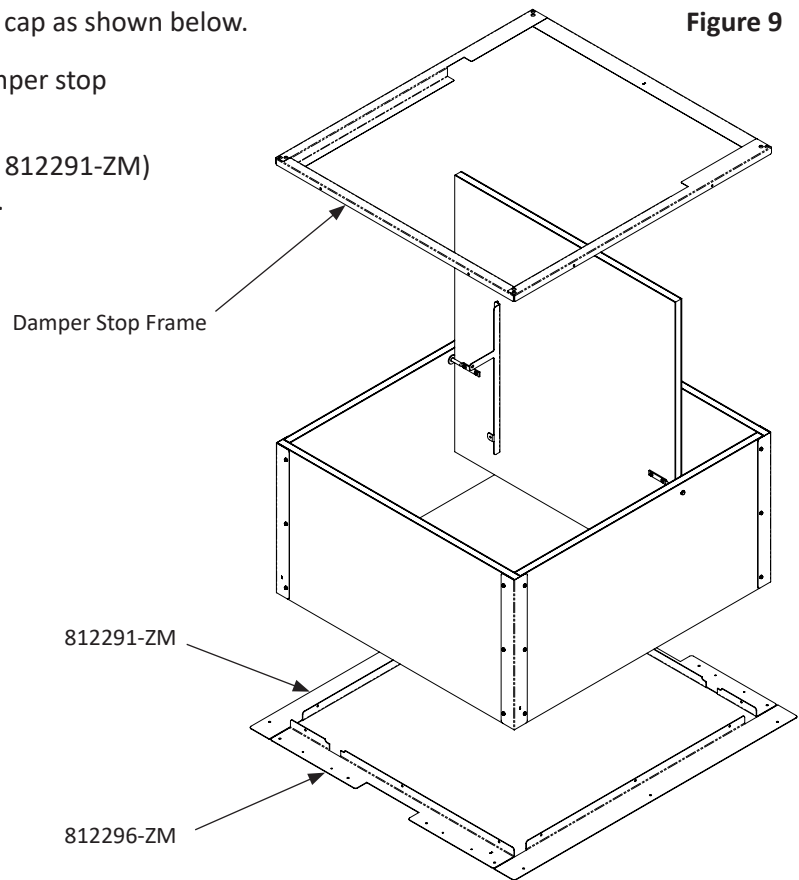
Step 3-D: Apply silicone caulk to inside corners of front and side panels to seal joints.

Damper Stop Frame and Bottom Cap Assembly

Step 4: Assemble damper stop frame and bottom cap as shown below.

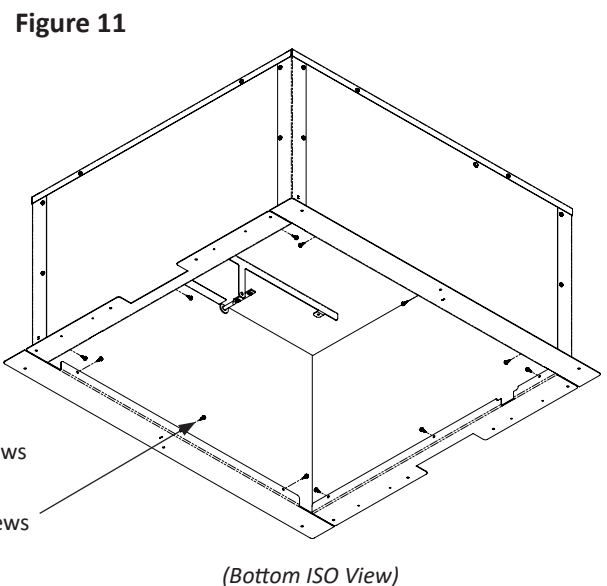
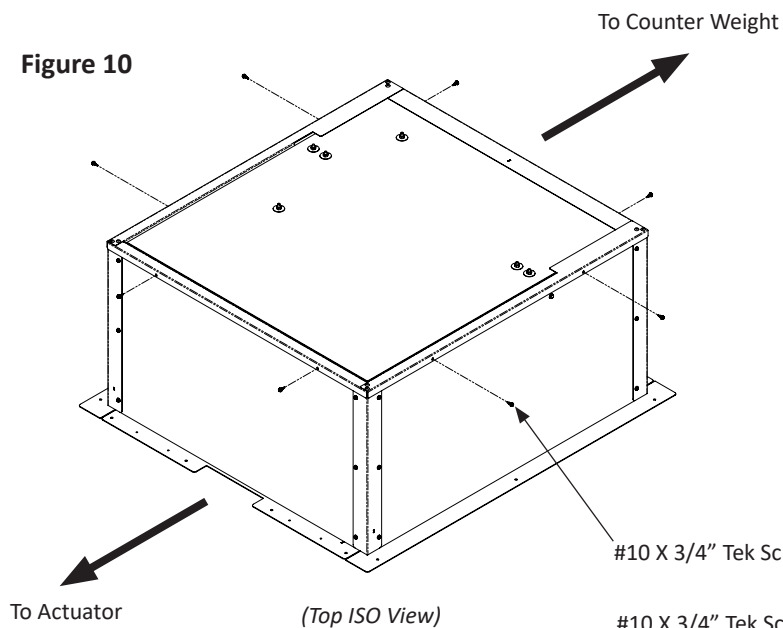
Rotate damper door upright and slide riveted damper stop frame on top of the assembled inlet walls.

Insert flanges of (4) bottom angles (812296-ZM & 812291-ZM) inside assembled inlet walls, as shown in Figure 9.



Assemble damper stop frame and bottom angles using (20) #10 X 3/4" Tek screws, as shown in Figures 10 & 11.

NOTE: The long side of the damper door will open towards the actuator/curtain machine as shown in Figure 10.



Install Inlet into Attic and Mount Attic Inlet on Wooden Framing

Step 5: Install inlet into attic as shown below.

Fit inlet into wooden framing. Insert inlet through rough opening from bottom as shown in Figure 12.

Align 32" panel with 32.5" rough opening side.

Figure 12

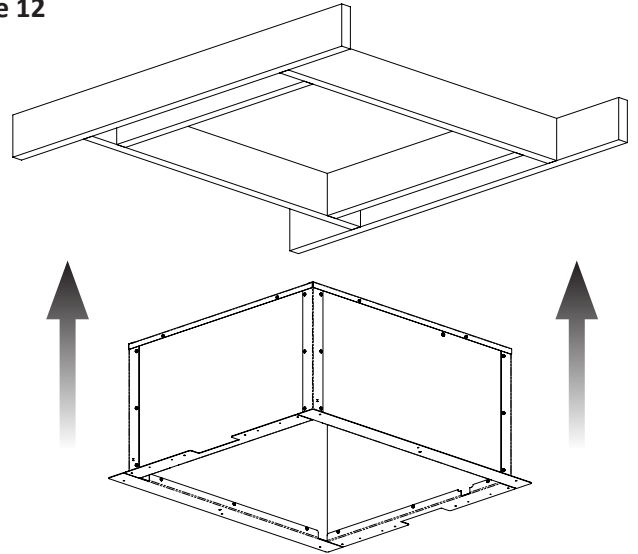
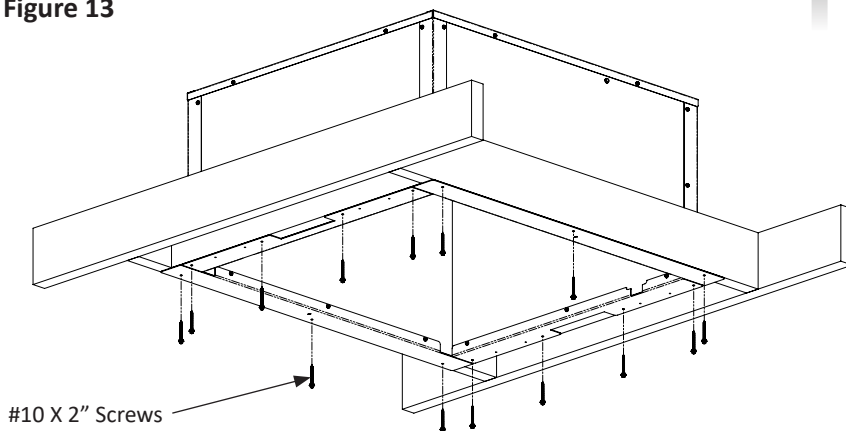


Figure 13



#10 X 2" Screws

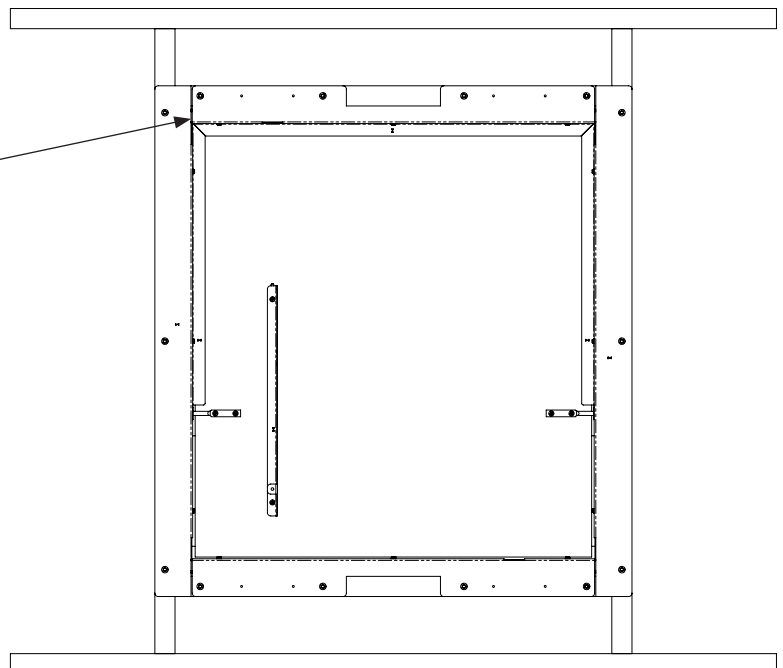
Step 6: Mount attic inlet to wood framing using (14) #10 X 2" screws, as shown in Figure 13.

NOTE: Bottom of inlet must be flush with bottom of rough opening.

Actuator / Curtain Machine End

Figure 14

Caulk any gaps for a tighter seal



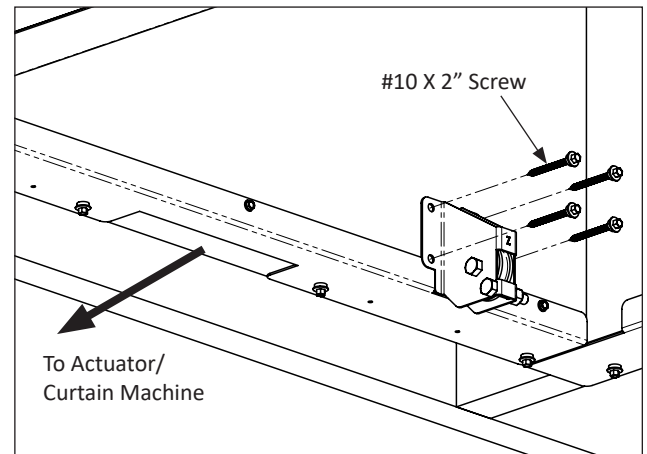
Spring / Counterweight End
(Bottom View)

Mount Pulley

Step 6: Mount pulley on inlet.

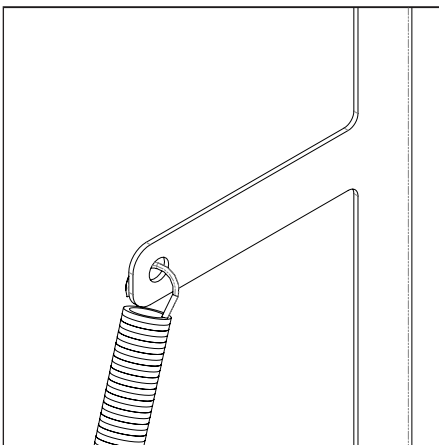
Step 6-A: Screw the pulley directly into the inlet frame and rough opening on the side closest to the actuator/curtain machine in the slot provided, using (4) #10 X 2" screws, as shown in Figure 15.

Figure 15



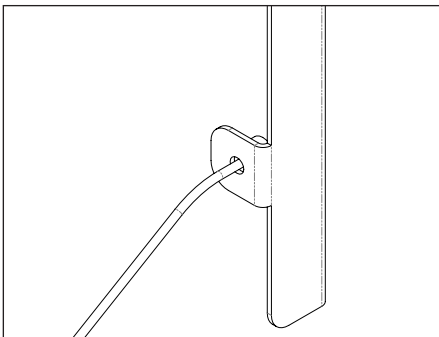
Step 6-B: Attach spring and cable to damper brace as shown in Figures 16 & 17. See Figure 18 for overview of assembly.

Figure 16 (Detail View)



Attach spring to hole as shown.
(Brace design may vary by size.)

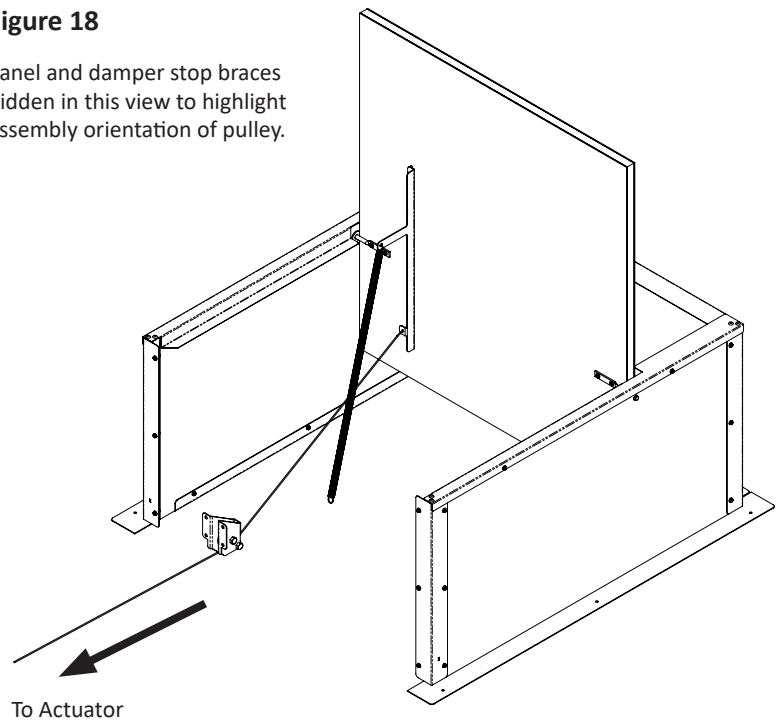
Figure 17 (Detail View)



Attach cable as shown.

Figure 18

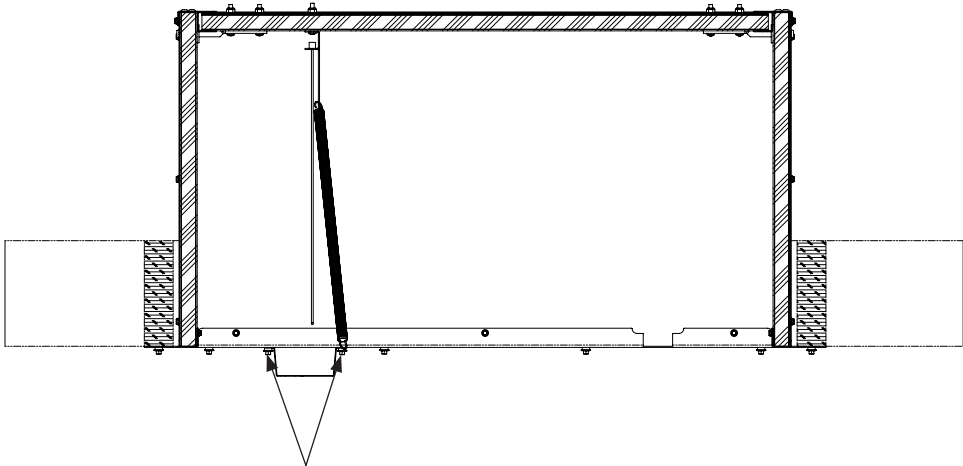
Panel and damper stop braces
hidden in this view to highlight
assembly orientation of pulley.



Mount Homerun Line Guard

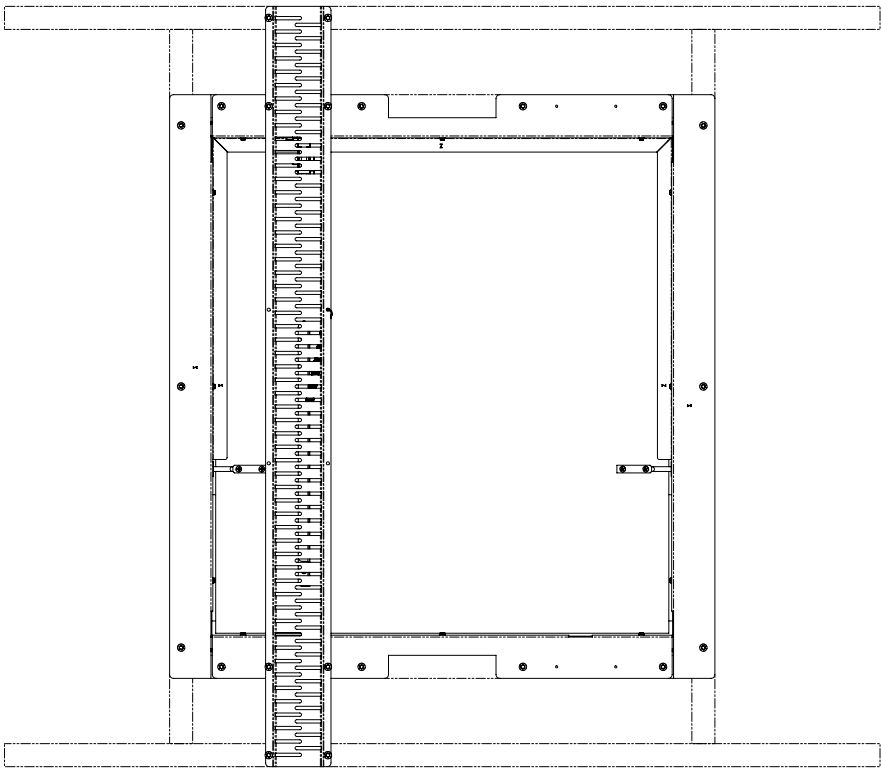
Step 7: Mount homerun line guard as shown below.

Figure 19



Offset home run line guard left to right as shown above, centering from front to back under inlet as shown below and mount to rough opening using (8) #10 X 2" screws, as shown in Figures 19 & 20. Pilot holes are provided in bottom angles to help with alignment.

Figure 20 Actuator / Curtain Machine End



Spring / Counterweight End
(Bottom View)

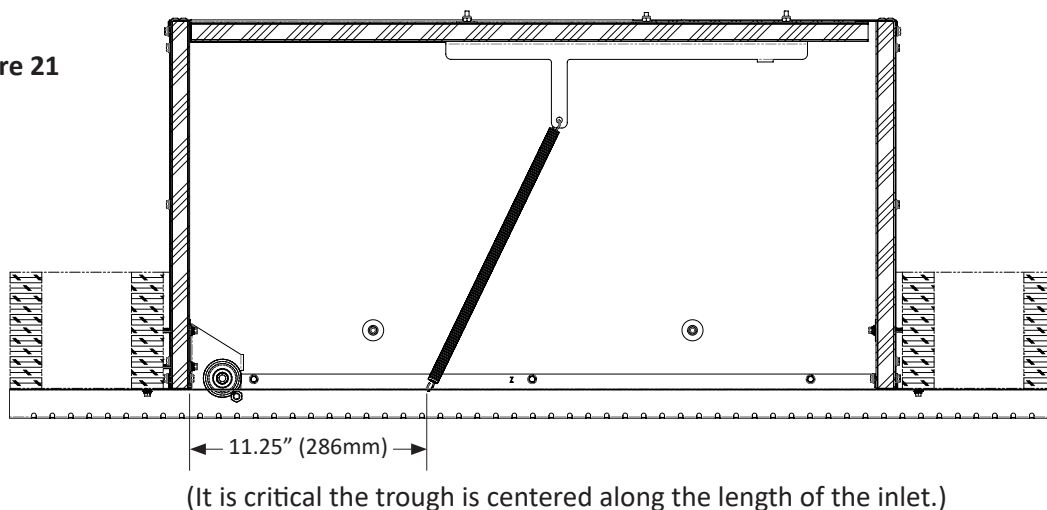
NOTE: Although offset from left to right, trough must be centered along the length of the inlet.



Mount Spring, Route Homerun Line, Fix Clamp Nut and Bolt

Step 8: Attach spring, route homerun line, fix clamp nut and bolt.

Figure 21



Step 8-A: Attach spring to homerun line guard as shown in Figures 21 & 22. Holes are provided on the homerun line guard for proper placement of the spring.

Figure 22 (Isometric Detail View)

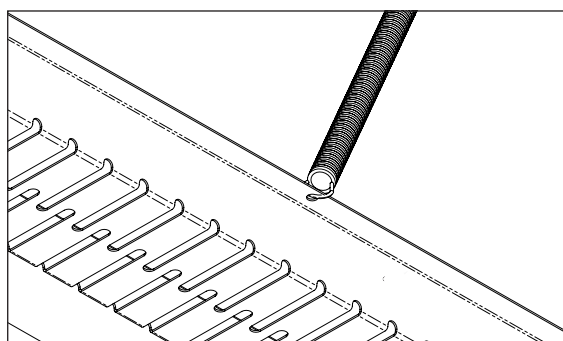


Figure 23

Step 8-B: Route cable underneath pulley and above bolt towards actuator.

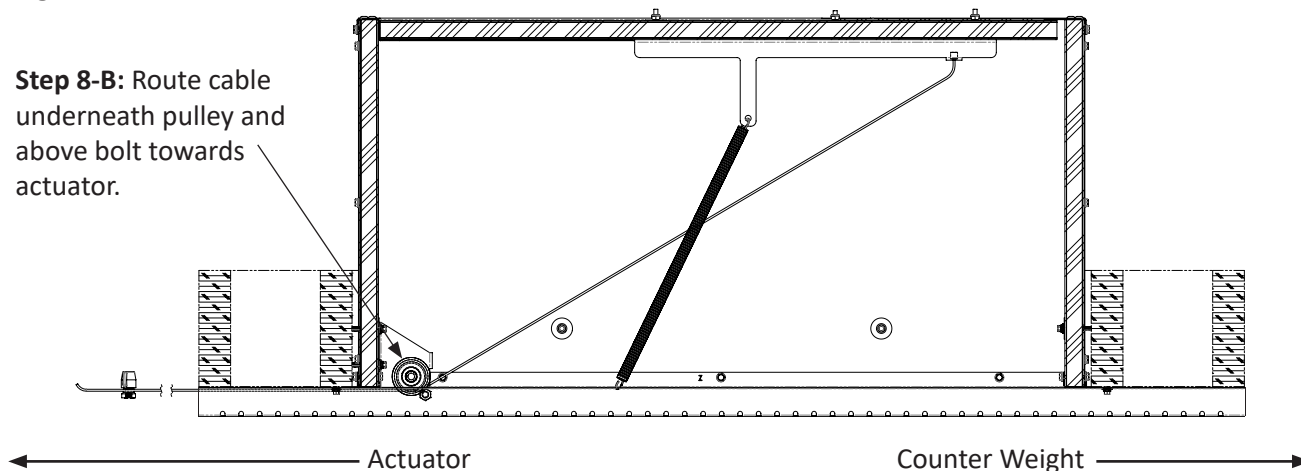
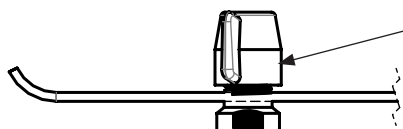
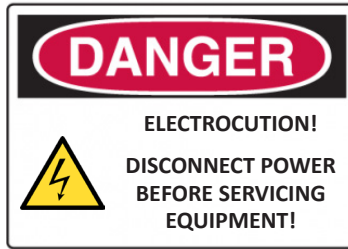


Figure 24 (Detail View)



Step 8-C: Pull door fully open and use large clamp bolt and clamp nut (or steel cable clamp) to attach cable to homerun line with actuator fully retracted.

Maintenance



Actuation Cords

Check cords for fraying every month, verifying cords are running smoothly over pulleys, and that pulleys are spinning freely.

Attic Inlet Damper

Adjust cords on homerun line every three months to ensure damper is opening and closing fully.

Damper Spring

Check damper spring every three months to ensure spring is properly attached to homerun line guard and damper door support bracket.

Fasteners

Retighten hardware as needed. Follow the torque specifications as outlined below.

FASTENER / DEVICE	RECOMMENDED TORQUE
#10-24 Pan Head Bolts	8 in. lbs. (Approx. 0.9 Nm)
1/4-20 Hex Head Bolts	80-85 in. lbs. (Approx. 9.0 Nm)

Clean Inlet

Clean any dust or dirt buildup on inlet using a brush or cloth every 6 months.

Regulation and Warning



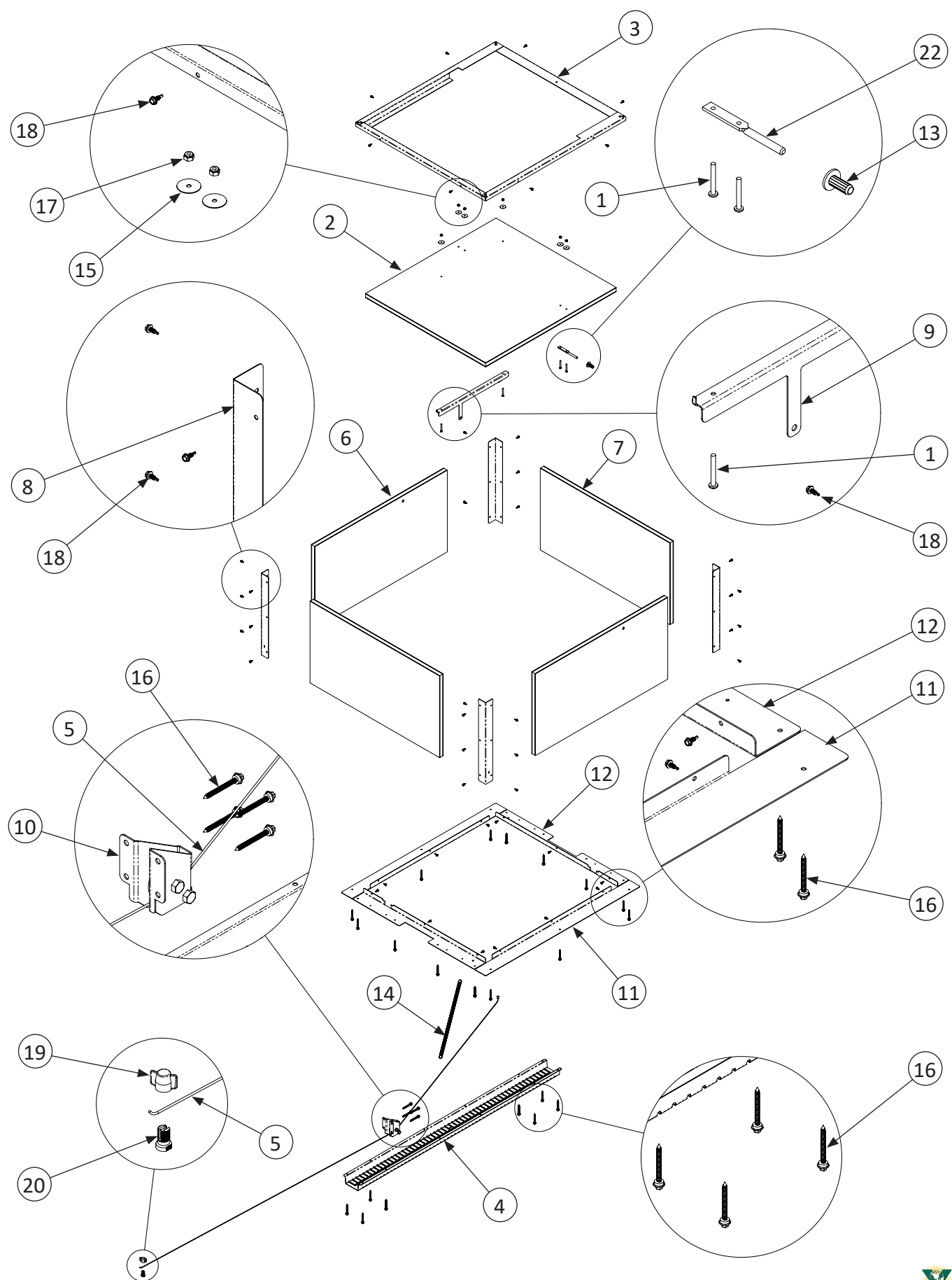
If these ventilation products are used to support life in agricultural structures where failure of the system could result in loss or injury, the user must provide an adequate backup and alarm system. The user must accept all risks of such loss or injury due to the possible failure of the ventilation system.

Troubleshooting Guide

Problem	Possible Cause	Corrective Action
Damper Door doesn't shut.	Actuator limit switches not set properly.	Reset limit switches.
	Spring became detached or broke.	Reattach or replace spring.
Damper Door doesn't open fully.	Actuator limit switches not set properly.	Reset limit switches.
	Clamp nut and bolt came loose.	Readjust clamp nut and bolt.



Attic Inlet: Exploded Parts Drawing



Attic Inlet: Parts List

ITEM #	PART #	QTY	DESCRIPTION
1	690321	6	#10-24 X 1-1/2" SCREW
2	812088	1	DAMPER PANEL, LP INLET
3	812093-ZM	1	30" DAMPER STOP/CAP ASSEMBLY
4	812095-ZM	1	GUARD, HOMERUN CABLE
5	812103	1	SS 3/32" CABLE, 7 X 19
6	812107	2	PANEL, 32.5" X 17.375" X .91"
7	812108	2	PANEL, 31.81" X 17.375" X .91"
8	812109-ZM	4	CORNER BRACKET, 17.34" LONG
9	812117-ZM	1	CABLE & SPRING CHANNEL
10	812120	1	PULLEY ASSEMBLY, 1-7/8" DIAMETER
11	812291-ZM	2	30" ANGLE MOUNT
12	812296-ZM	2	30" NOTCHED ANGLE MOUNT
13	812297	2	HINGE, BUSHING
14	FP831-SS	1	SPRING, DAMPER VANE, SS
15	MH8028	6	FLAT WASHER, 3/16" ID X 1" OD
16	MH8206	26	#10 X 2" SCREW WITH SEAL
17	MH90030	6	#10-24 NYLOCK HEX NUT
18	MH90251	44	#8-18 X 1/2" TEK SCREW
19	VB225	1	1/2" LARGE CLAMP NUT
20	VB227	1	1/2" LARGE CLAMP BOLT
21	VC358	1	1/8" CABLE CLAMP
22	ZR1724	2	DAMPER HINGE

Hardware - Replacement/Repair Part Numbers

Hardware depicted are not actual size or to scale.

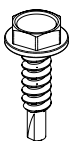
Hardware used to assemble Inlets:



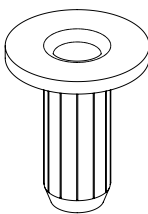
3/16" ID X 1" OD
Flat Washer
MH8028



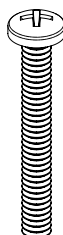
#10-24
Nylock Hex Nut
MH90030



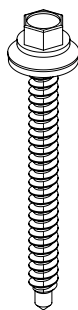
#8-18 X 1/2"
Tek Screw
MH90251



Hinge Bushing
812297



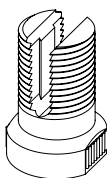
#10-24 X 1-1/2"
Pan Head Screw
690321



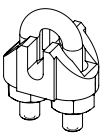
#10 X 2"
Sheet Metal Screw
MH8206



1/2"
Large Clamp Nut
VB225



1/2"
Large Clamp Bolt
VB227



1/8"
Cable Clamp
VC358

Hardware shown above can be found in Parts Bag 812102

Customer Service

Customer Service
210 E. Main Street
Coldwater, OH 45828
800.998.2526



Dealer Name: _____

Street / PO Box _____

City _____

State / Province _____

Zip / Postal _____

Phone _____

Fax _____

E-mail _____

Web site _____

North America:
Phone: 800.99VALCO (800.998.2526)
Fax: 419.678.2200
Email: sales@val-co.com

International:
Phone: (+1) 419.678.8731
Fax: (+1) 419.678.2200
Email: intl.sales@val-co.com

