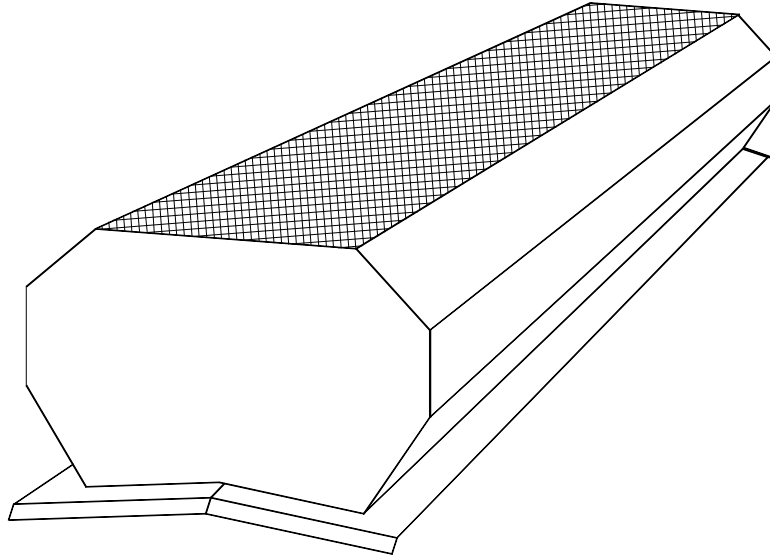


R & S Manufacturing and Sales Company

KNOCKED DOWN RIDGE VENTS

RV9-12



ASSEMBLY INSTRUCTIONS

April 2013

PARTS LIST

End Caps (2 per vent)
Wind Bands (2 per vent)
Skirt Flashings (2 per vent)
Skirt Cross Braces (3 per vent)
Gussets (3 per vent)
Diverter (1 per vent)
Bird Screen (1 per vent)
Bird Screen End Trim (2 per vent)
End Cap Diverter Trim (2 per vent)
End Cap Roof Flash Assembly (2 per vent)
End Cap Continuous Flash Assembly (1 per vent)

Fasteners:

1/8 X 1/8 ALL ALUMINUM POP RIVET PART#AB42A (For use with RV Windbands)
1/8 X 1/2 ALL ALUMINUM POP RIVET PART#AB48A (For RV9-12 Screen)
3/16 X 1/4 ALL ALUMINUM POP RIVET WITH CLOSED END PART#AD64AH (RV-12 Diverter)

Sealants:

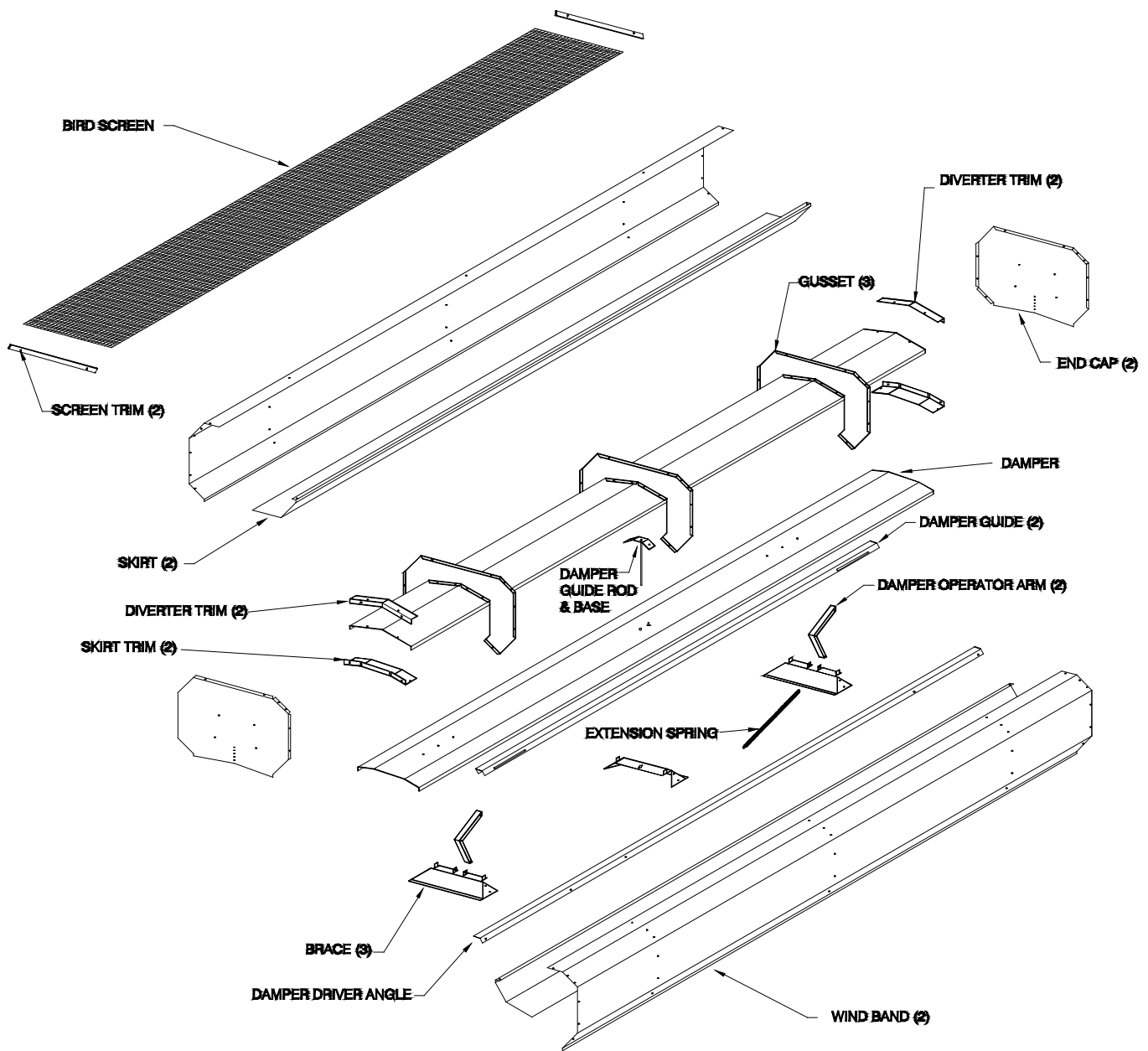
Schnee-Moorehead S-M 7100 polyurethane sealant

For Vents with Dampers:

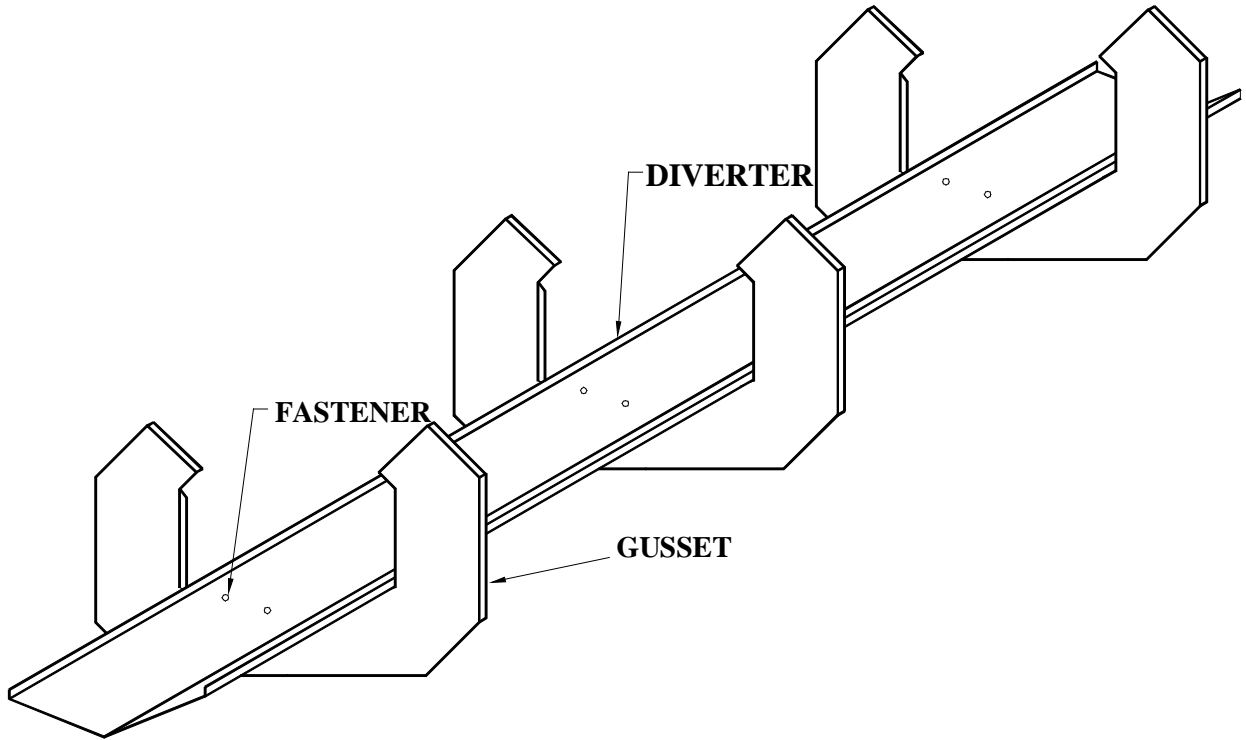
Damper (1 per vent)
Damper Horizontal Guide (1 per vent)
Damper Chain Attachment Bracket (1 per vent)
Damper Guide Rod (1 per vent)
Damper Guide Rod Bushing (1 per vent)
Damper Guide Base (1 per vent)
Damper Lift Arm (2 per vent)
Damper Pull Angle (1 per vent)
Operator Chain (15') (1 per vent)
Extension spring 7/16" OD 16-3/8" overall length (1 per vent – RV18 2 per vent, RV24 3 per vent)

Fasteners:

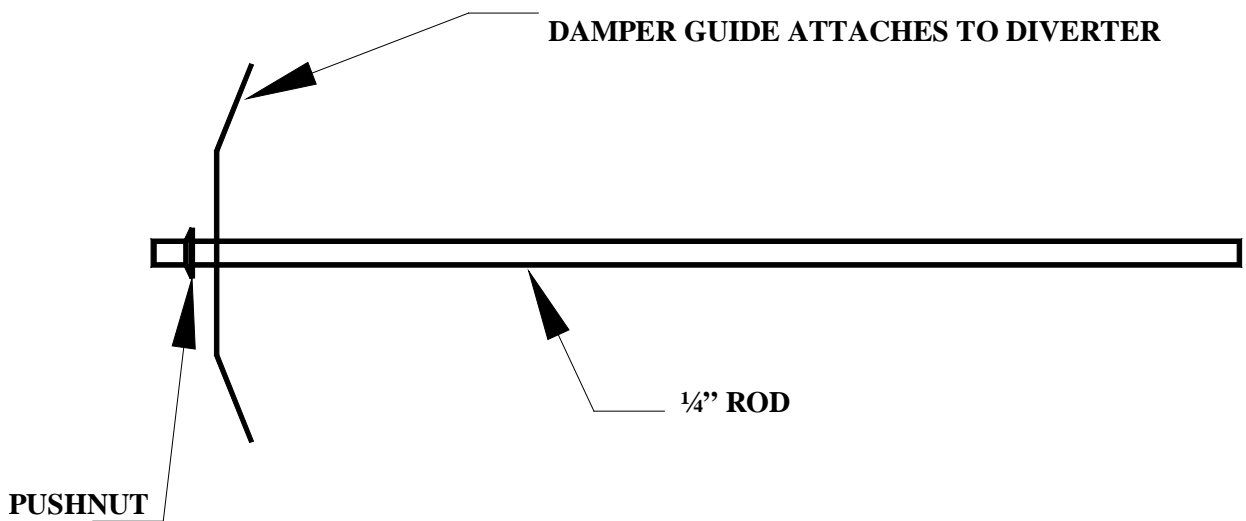
1/4" x 1-3/4" zinc finish carbon steel clevis pin (four per vent)
1/4" x 1-1/2" zinc finish carbon steel clevis pin (two per vent)
3/16 X 1/4 ALL ALUMINUM POP RIVET WITH CLOSED END PART#AD64AH (RV Diverter Guide Rod Bracket)
3/16 X 1/4 ALL ALUMINUM POP RIVET PART#AB64A (RV damper clip)
#4 Aluminum Eye & Eye 1/4-20 turnbuckle. 5-1/2" long closed. 7-5/8" long open with nut & bolt for attachment (1 per vent)
Palnut Model PS250085 Flat Round Pushnut fasteners (1 per vent)
Heyco Bushings Part # SB 437-5 black (1 per vent)

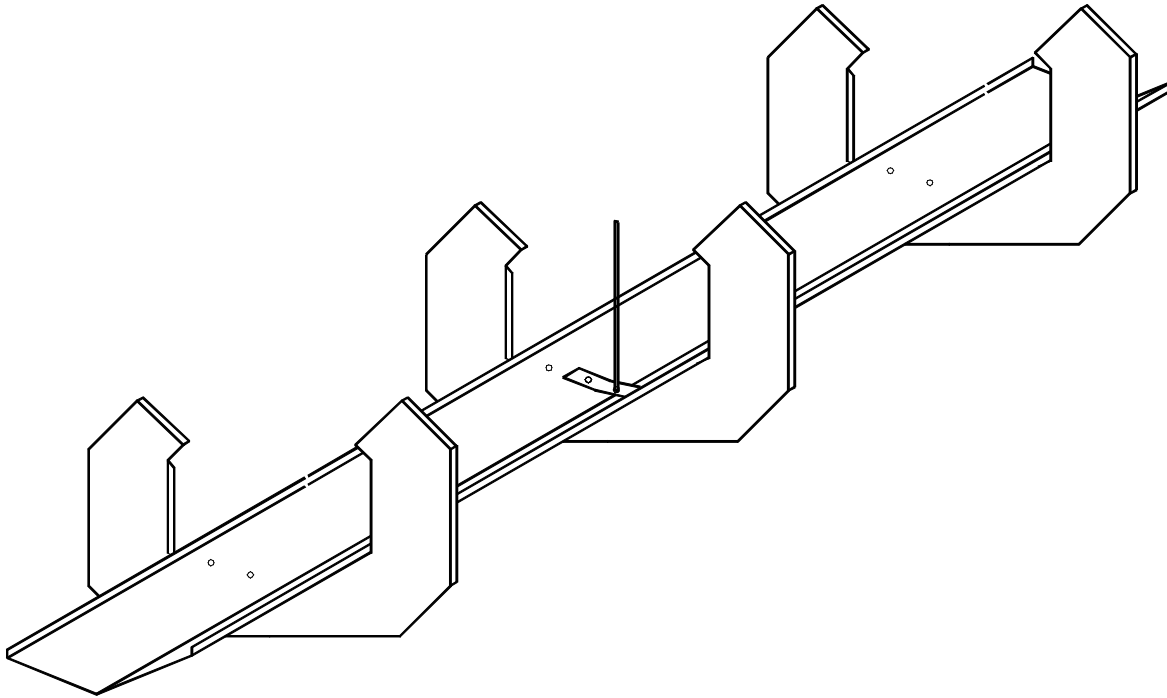


Lay the three gussets on a table with all 3 pieces facing the same direction spaced about 3 feet apart. Lay the diverter on top of the gussets. Tip the gussets up one at a time with the "horseshoe" facing up and fasten the diverter to the gussets with 1/8 X 1/8 ALUMINUM/STEEL POP RIVET WITH CLOSED END PART#AB42CLD (RV-9 only). For the RV-12 and up, use 3/16 X 1/4 ALL ALUMINUM POP RIVET WITH CLOSED END PART#AD64AH. Six rivets required.

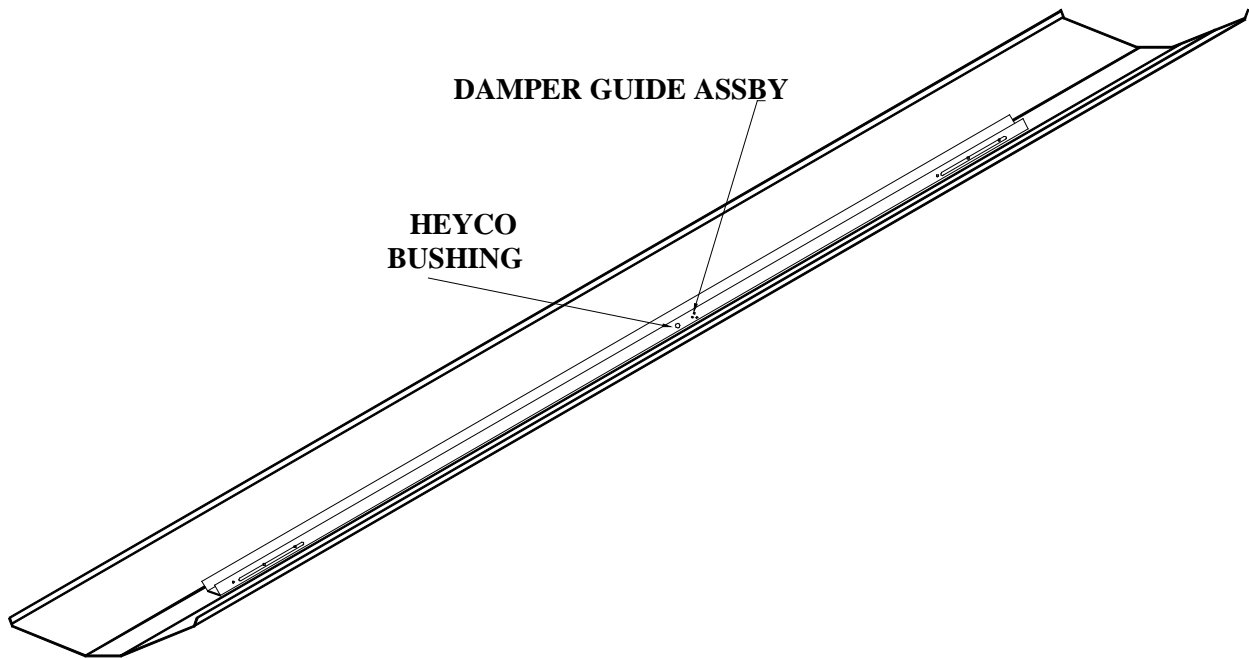


If the vent includes a damper, set up the damper guide rod into the damper guides with pushnut fasteners at the end of the rod. Attach the damper guide assembly to the diverter using two 3/16 X 1/4 Rivet with closed ends.

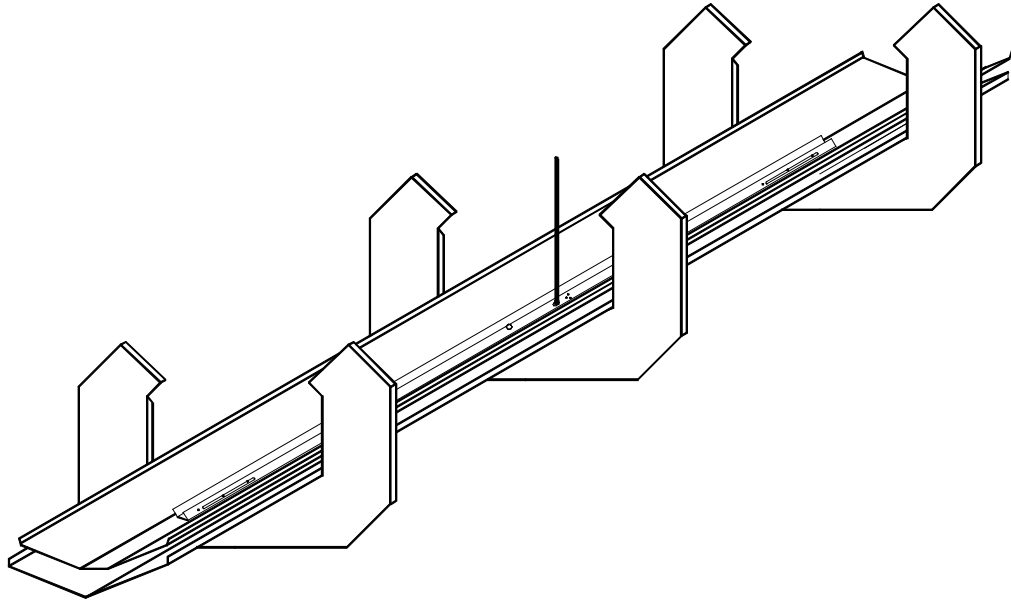




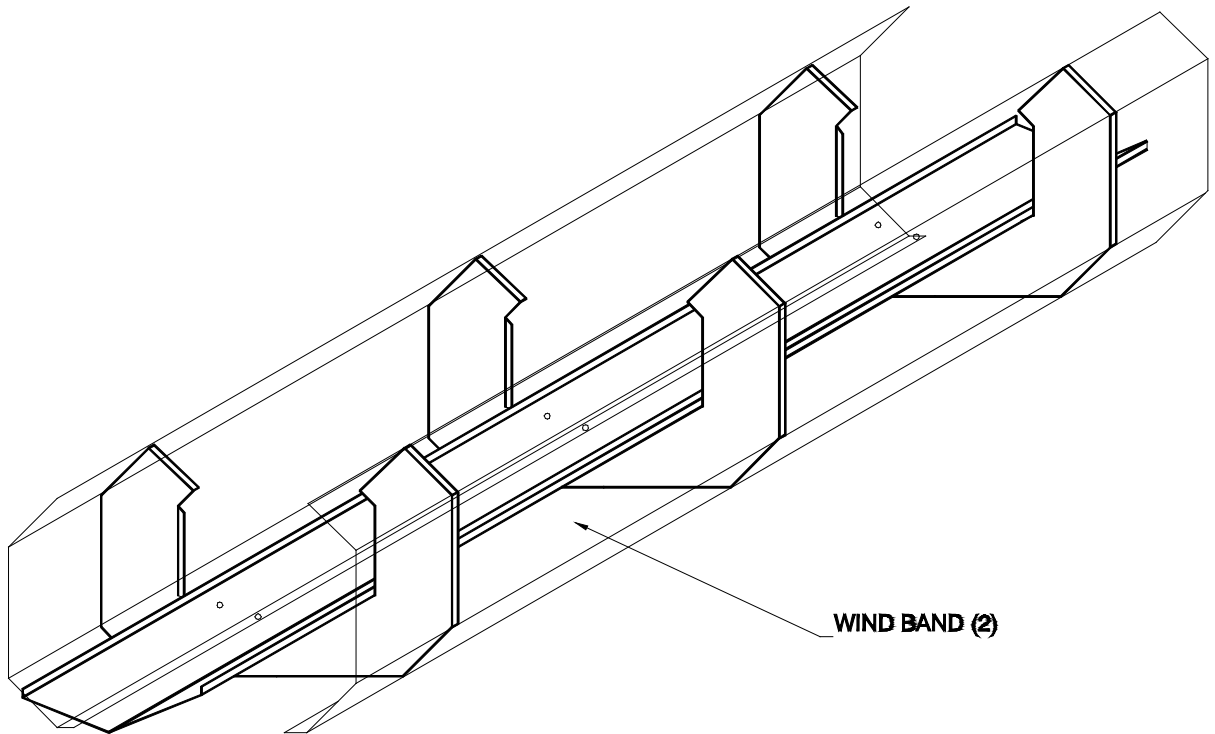
Set up the damper with one Heyco guide rod bushing, and the one damper horizontal guide assembly. Use two 3/16 X 1/4 rivets PART#AB64A.



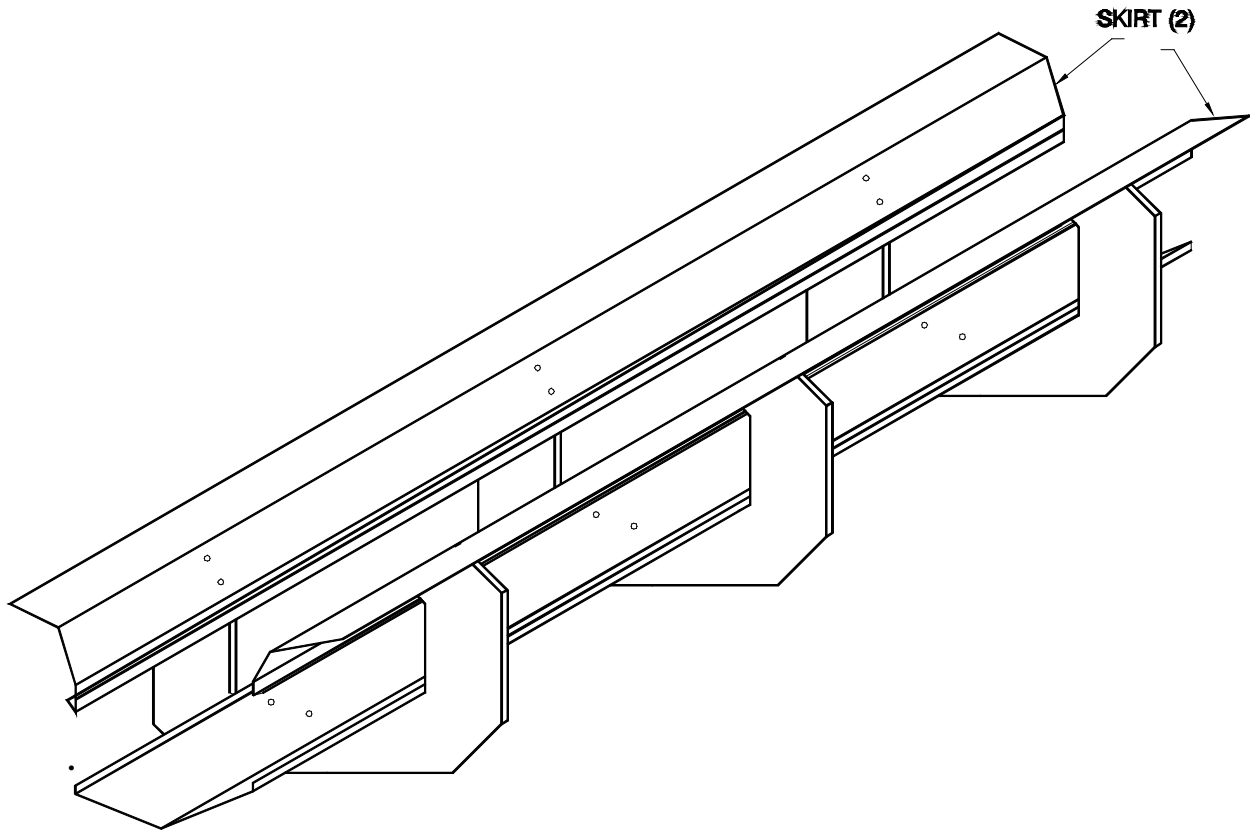
Place damper assembly over guide rods and diverter.



Fasten the windbands to the sides of the gussets using 1/8" rivets. Do not fasten the windband to the braces near the bottom to allow the screen to be inserted.

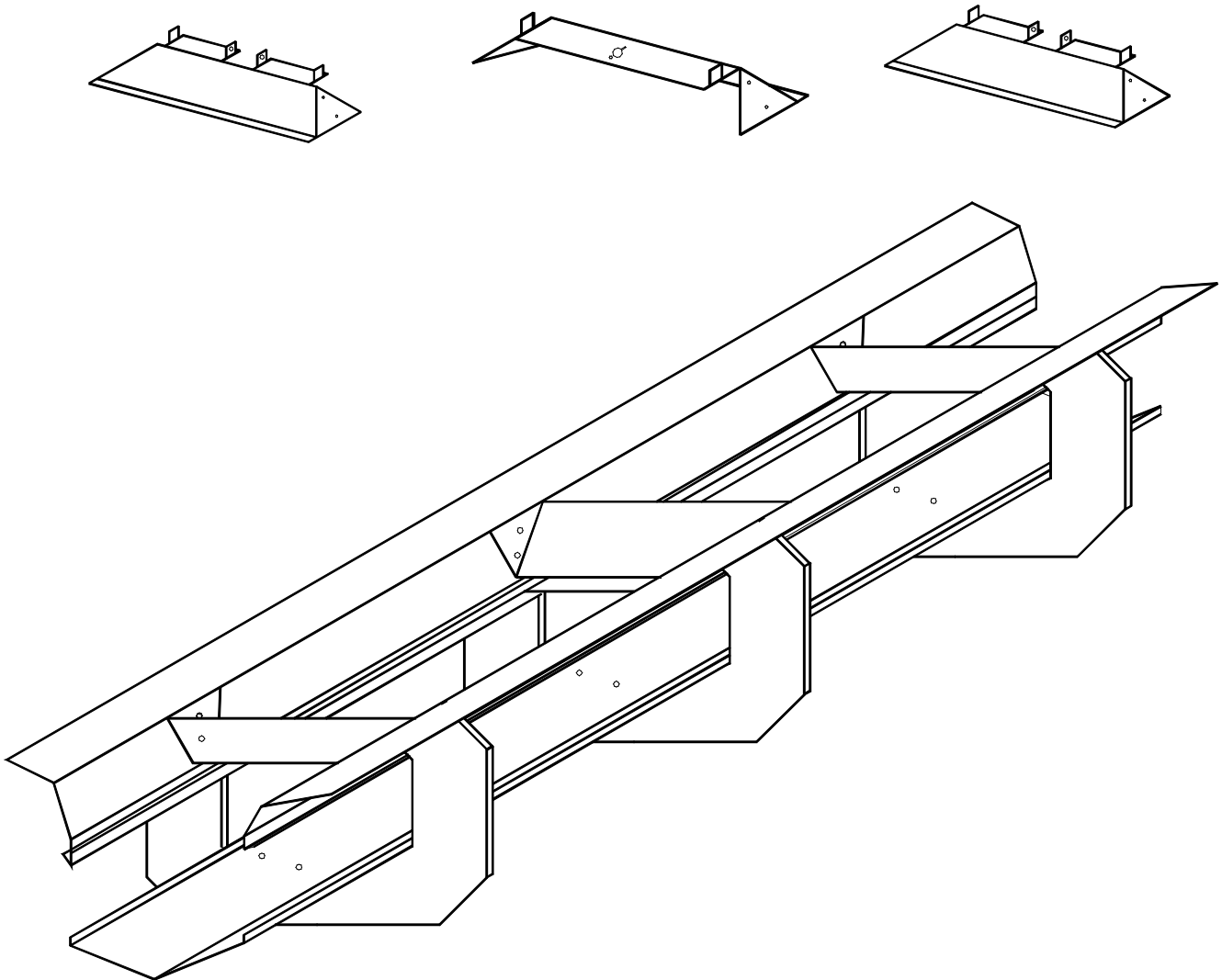


Lay the two skirt flashings on top of the gussets making sure the holes line up properly as shown below (windbands omitted for clarity).

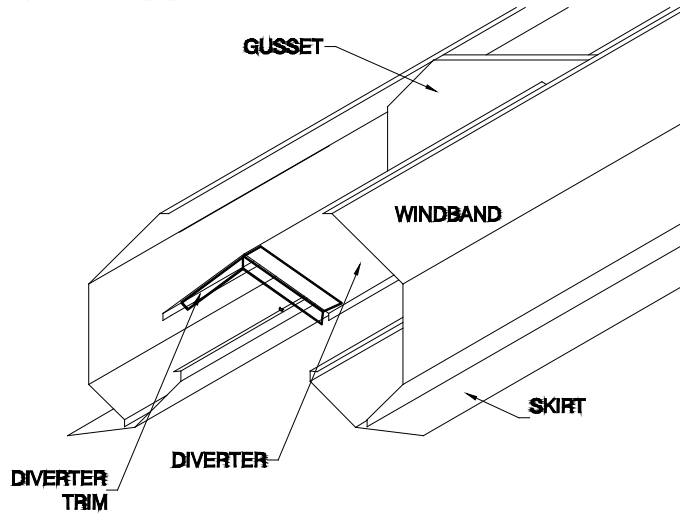


Position the braces over the top of the skirts in the orientation shown (windbands and end caps omitted for clarity). The middle brace is unique with a pathway and keeper provided for the chain operator and guide rod. Using 3/16 closed end rivets, fasten the skirts and braces to the gussets. 12 Rivets are required.

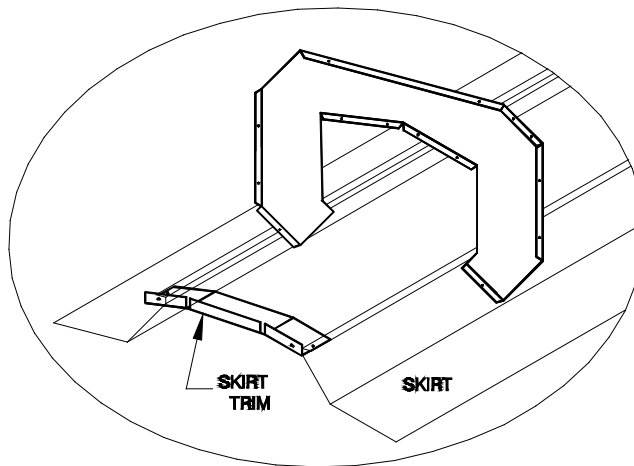
BRACES



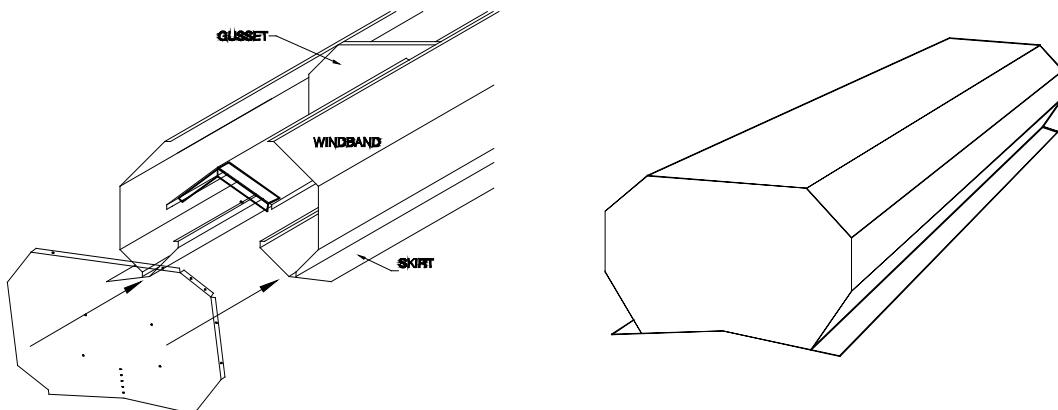
While in the up side down position, form the Diverter Trim by hand to match the shape of the water diverter and fasten one to each end of the diverter using 1/8" rivets. (Drawings shown in right side up position.)



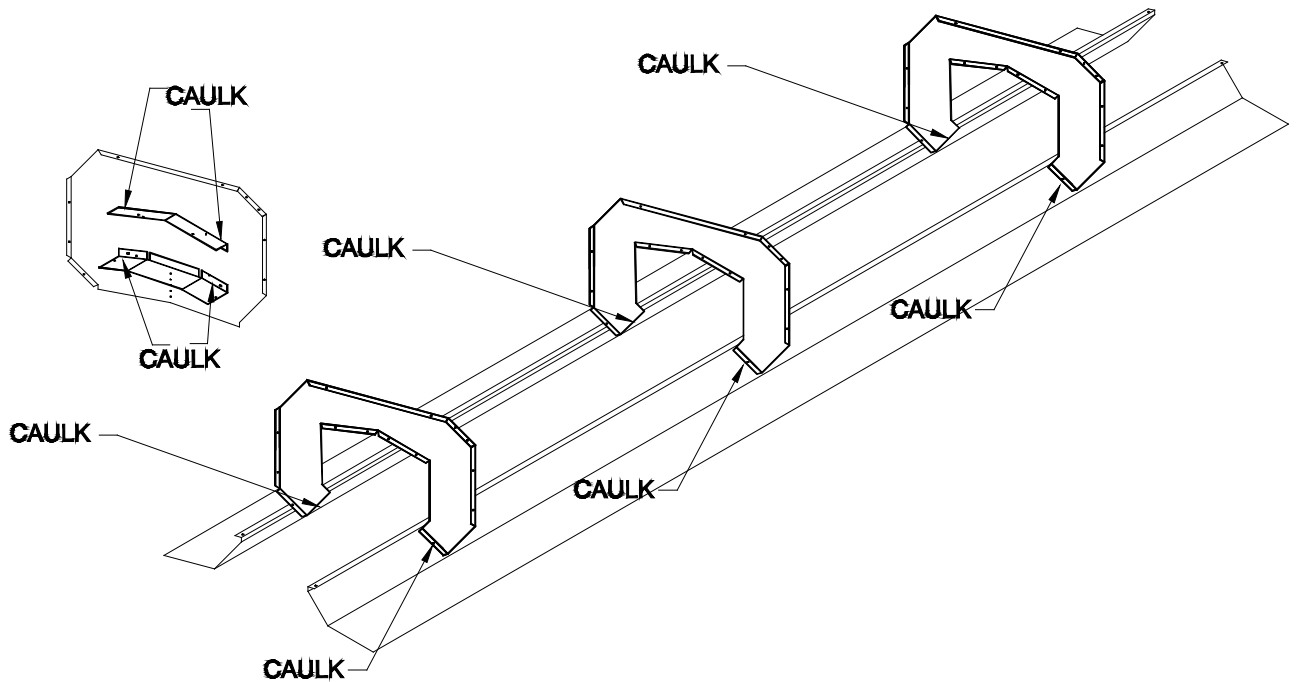
Form the Skirt Trim by hand so the 1/8" holes in the end (not the slots) match up with the holes in the ends of the skirts. Fasten to the skirts using 1/8" rivets.



Attach the End Caps to the end of the vents with the windbands overlapping the flanges on the endcaps. Fasten using 1/8" rivets. Attach skirt and diverter trims to the end caps.



RV9 and RV12 Models – Caulk the Skirt Trim using the polyurethane caulking.



Turn the vent over 180 degrees.

RV9 and RV12 Models – Caulk the gusset/skirt joints around the perimeter and over each blind rivet. Caulk the End Cap to the Diverter Trim using the polyurethane caulking.

Slide in the screen in place and trim 1/8" shorter than the vent after it is in place.

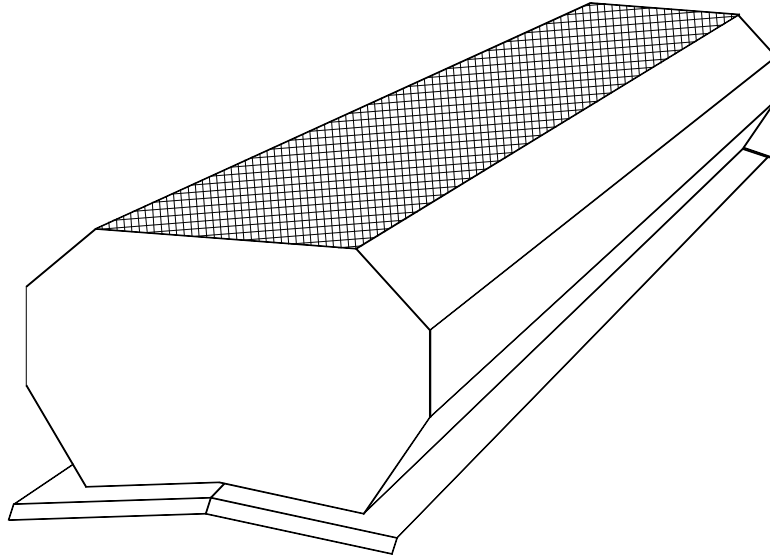
Attach the screen trim using 1/8" steel shank rivets.

Place the two damper operator arms (long side connects to the damper assembly) into the end braces. Use clevis pins to fasten to damper. Then place the damper pull angle as shown and connect to the damper operator arms with clevis pins. Connect the counter balance extension spring (RV18 uses two springs, RV24 uses three springs) between the end brace and pull angle as shown using the S hook and a self tapping screw.

R & S Manufacturing and Sales Company

KNOCKED DOWN RIDGE VENTS

RV18-24



ASSEMBLY INSTRUCTIONS

April 2013

PARTS LIST

End Caps (2 per vent)
Wind Bands (2 per vent)
Skirt Flashings (2 per vent)
Skirt Cross Braces (3 per vent)
Gussets (3 per vent)
Diverter (1 per vent)
Bird Screen (1 per vent)
Bird Screen End Trim (2 per vent)
End Cap Diverter Trim (2 per vent)
End Cap Roof Flash Assembly (2 per vent)
End Cap Continuous Flash Assembly (1 per vent)

Fasteners:

1/8 X 1/8 ALL ALUMINUM POP RIVET PART#AB42A (For use with RV Windbands)
1/8 X 1/2 ALL ALUMINUM POP RIVET PART#AB48A (For RV9-12 Screen)
3/16 X 1/4 ALL ALUMINUM POP RIVET WITH CLOSED END PART#AD64AH (RV-12 Diverter)

Sealants:

Schnee-Moorehead S-M 7100 polyurethane sealant

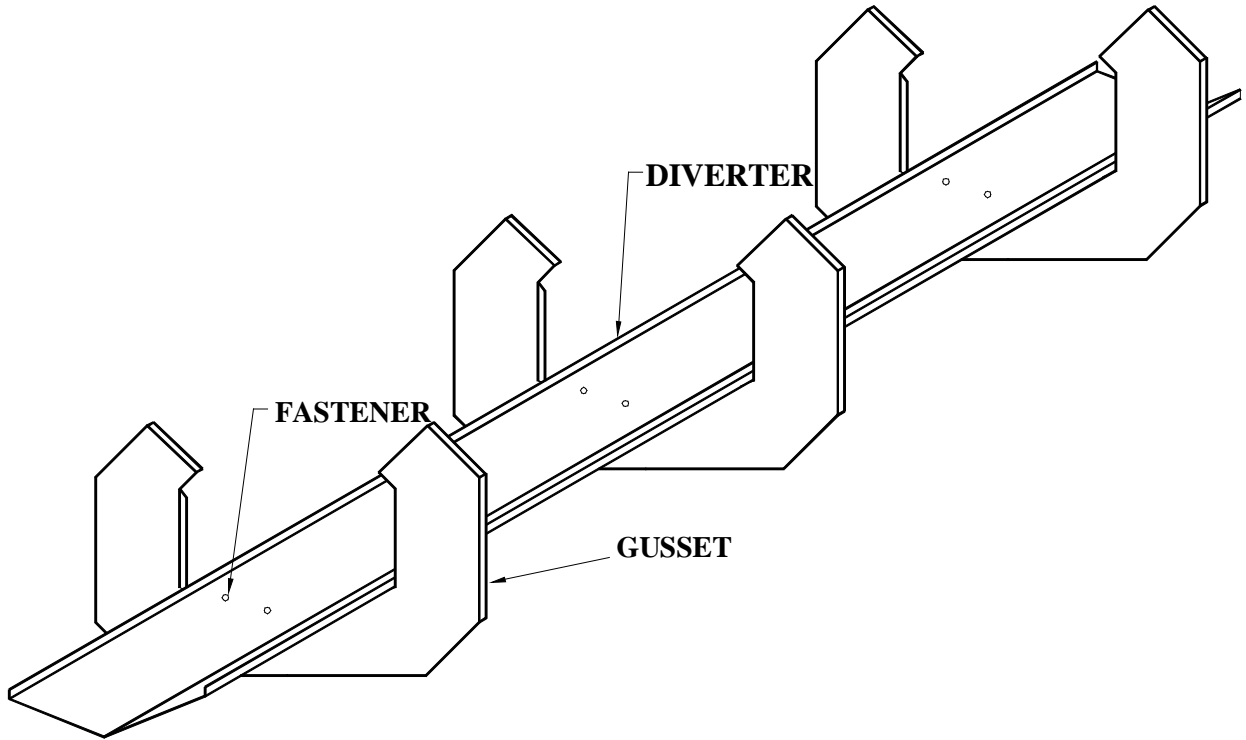
For Vents with Dampers:

Damper (1 per vent)
Damper Horizontal Guide (1 per vent)
Damper Chain Attachment Bracket (1 per vent)
Damper Guide Rod (1 per vent)
Damper Guide Rod Bushing (1 per vent)
Damper Guide Base (1 per vent)
Damper Lift Arm (2 per vent)
Damper Pull Angle (1 per vent)
Operator Chain (15') (1 per vent)
Extension spring 7/16" OD 16-3/8" overall length (1 per vent – RV18 2 per vent, RV24 3 per vent)

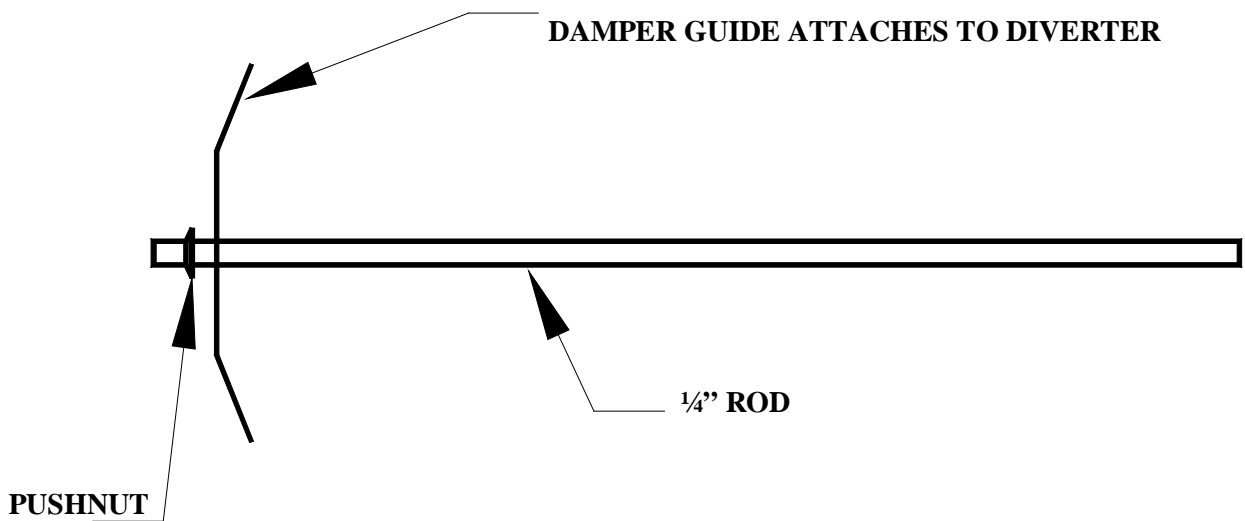
Fasteners:

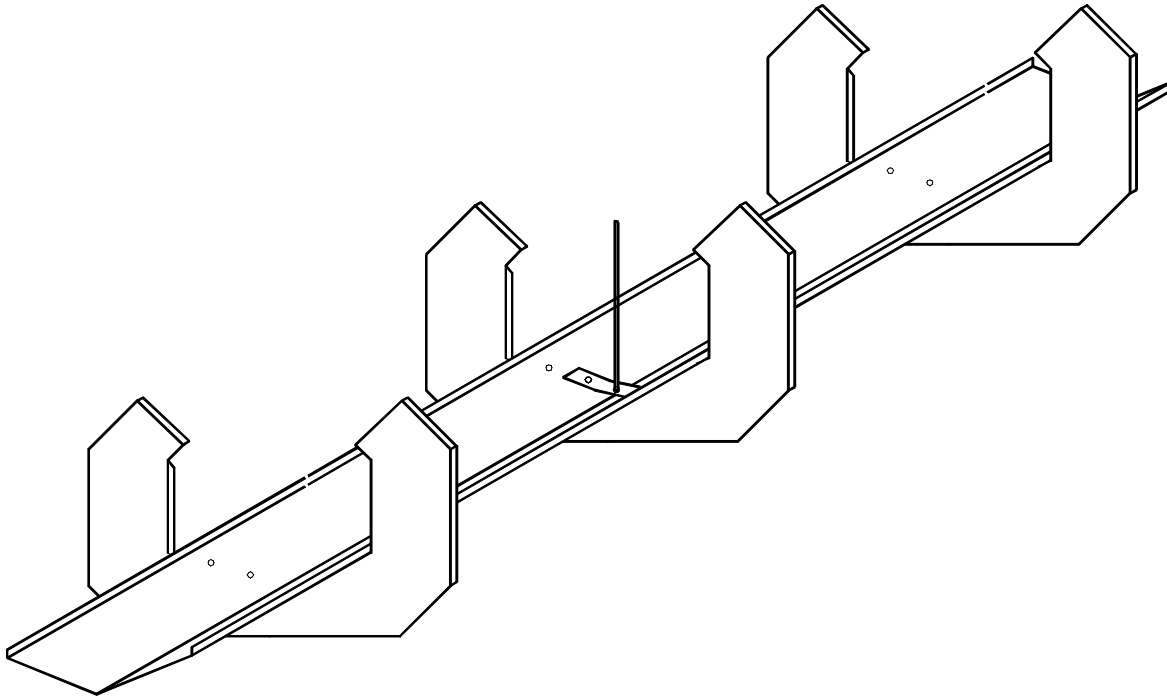
1/4" x 1-3/4" zinc finish carbon steel clevis pin (four per vent)
1/4" x 1-1/2" zinc finish carbon steel clevis pin (two per vent)
3/16 X 1/4 ALL ALUMINUM POP RIVET WITH CLOSED END PART#AD64AH (RV Diverter Guide Rod Bracket)
3/16 X 1/4 ALL ALUMINUM POP RIVET PART#AB64A (RV damper clip)
#4 Aluminum Eye & Eye 1/4-20 turnbuckle. 5-1/2" long closed. 7-5/8" long open with nut & bolt for attachment (1 per vent)
Palnut Model PS250085 Flat Round Pushnut fasteners (1 per vent)
Heyco Bushings Part # SB 437-5 black (1 per vent)

Lay the three gussets on a table with all 3 pieces facing the same direction spaced about 3 feet apart. Lay the diverter on top of the gussets. Tip the gussets up one at a time with the "horseshoe" facing up and fasten the diverter to the gussets with 1/8 X 1/8 ALUMINUM/STEEL POP RIVET WITH CLOSED END PART#AB42CLD (RV-9 only). For the RV-12 and up, use 3/16 X 1/4 ALL ALUMINUM POP RIVET WITH CLOSED END PART#AD64AH. Six rivets required.

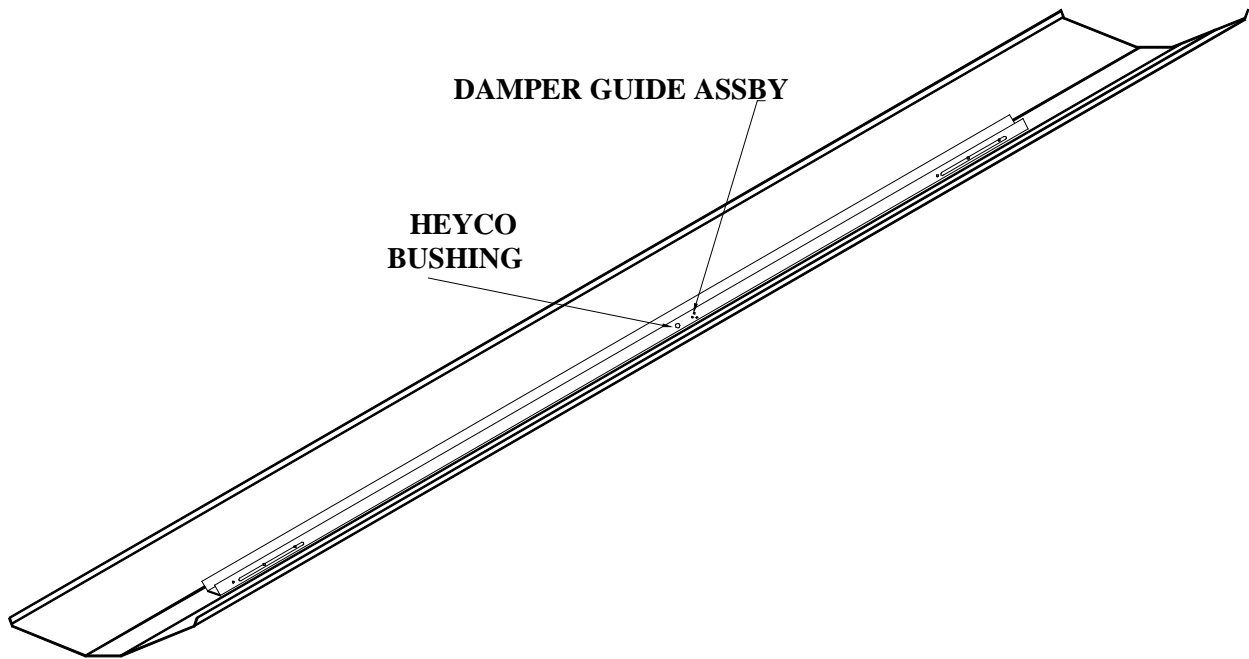


If the vent includes a damper, set up the damper guide rod into the damper guides with pushnut fasteners at the end of the rod. Attach the damper guide assembly to the diverter using two 3/16 X 1/4 Rivet with closed ends.

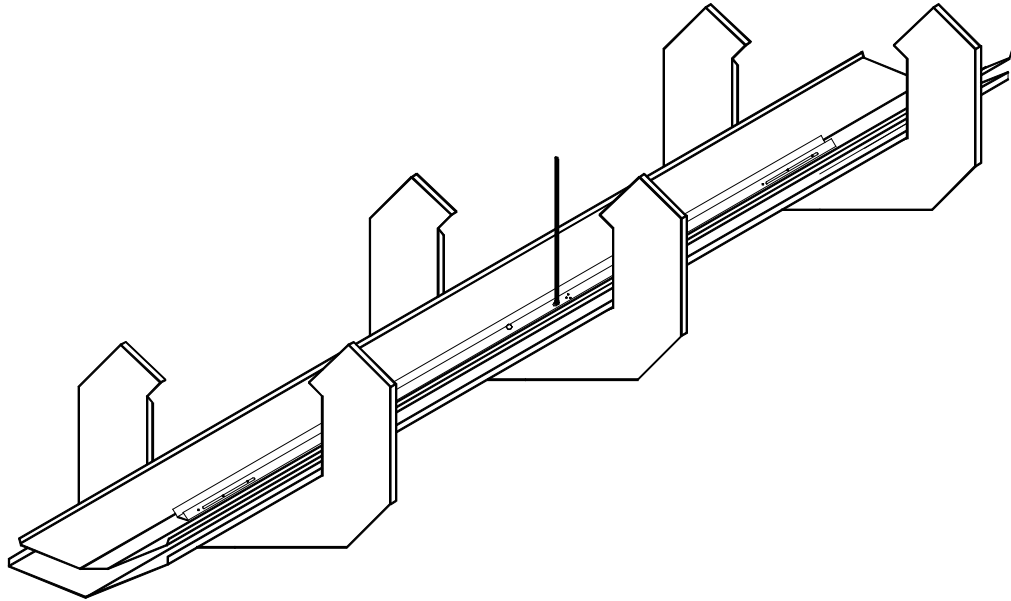




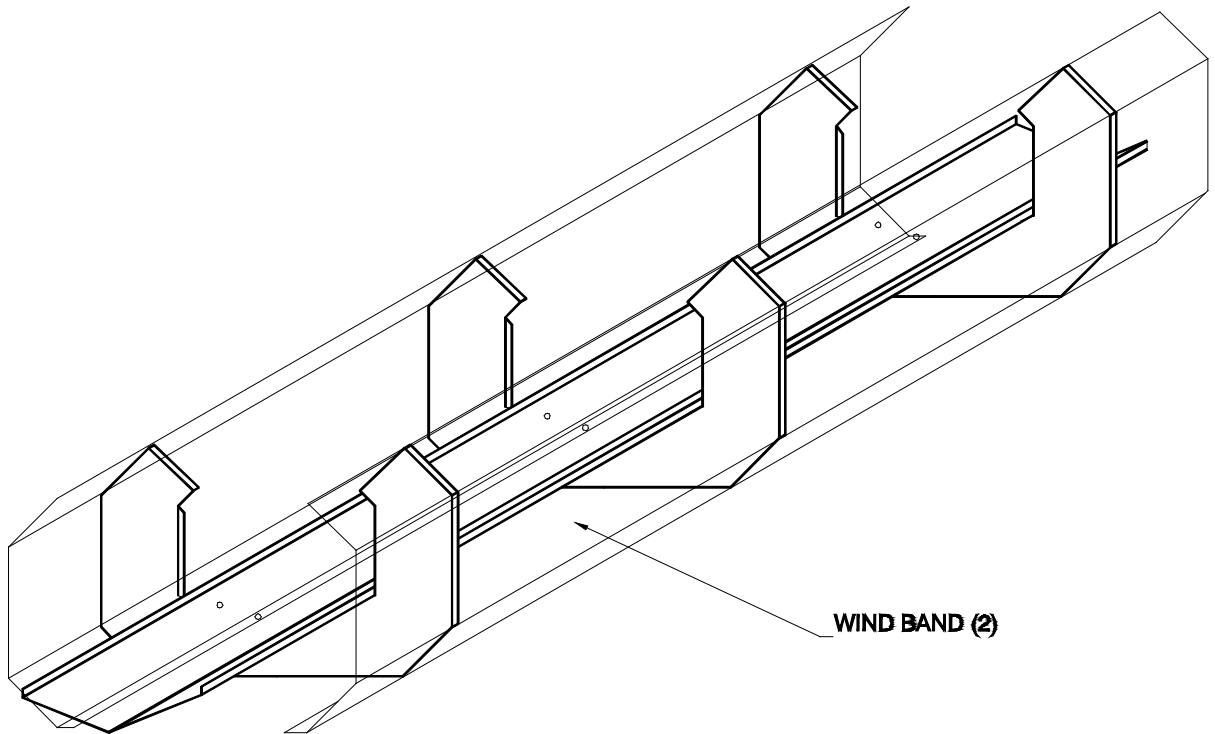
Set up the damper with one Heyco guide rod bushing, and the one damper horizontal guide assembly. Use two 3/16 X 1/4 rivets PART#AB64A.



Place damper assembly over guide rods and diverter.

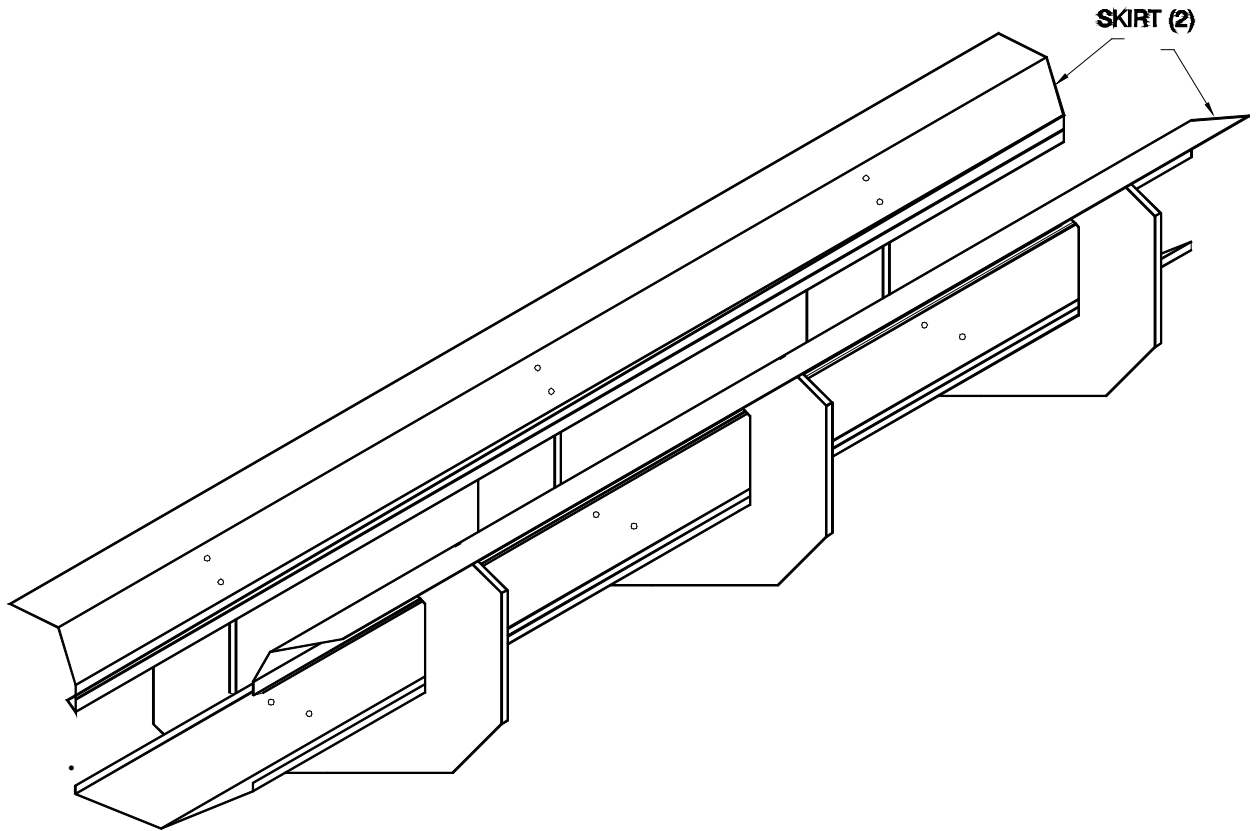


Fasten the windbands to the sides of the gussets using 1/8" rivets. Do not fasten the windband to the braces near the bottom to allow the screen to be inserted.



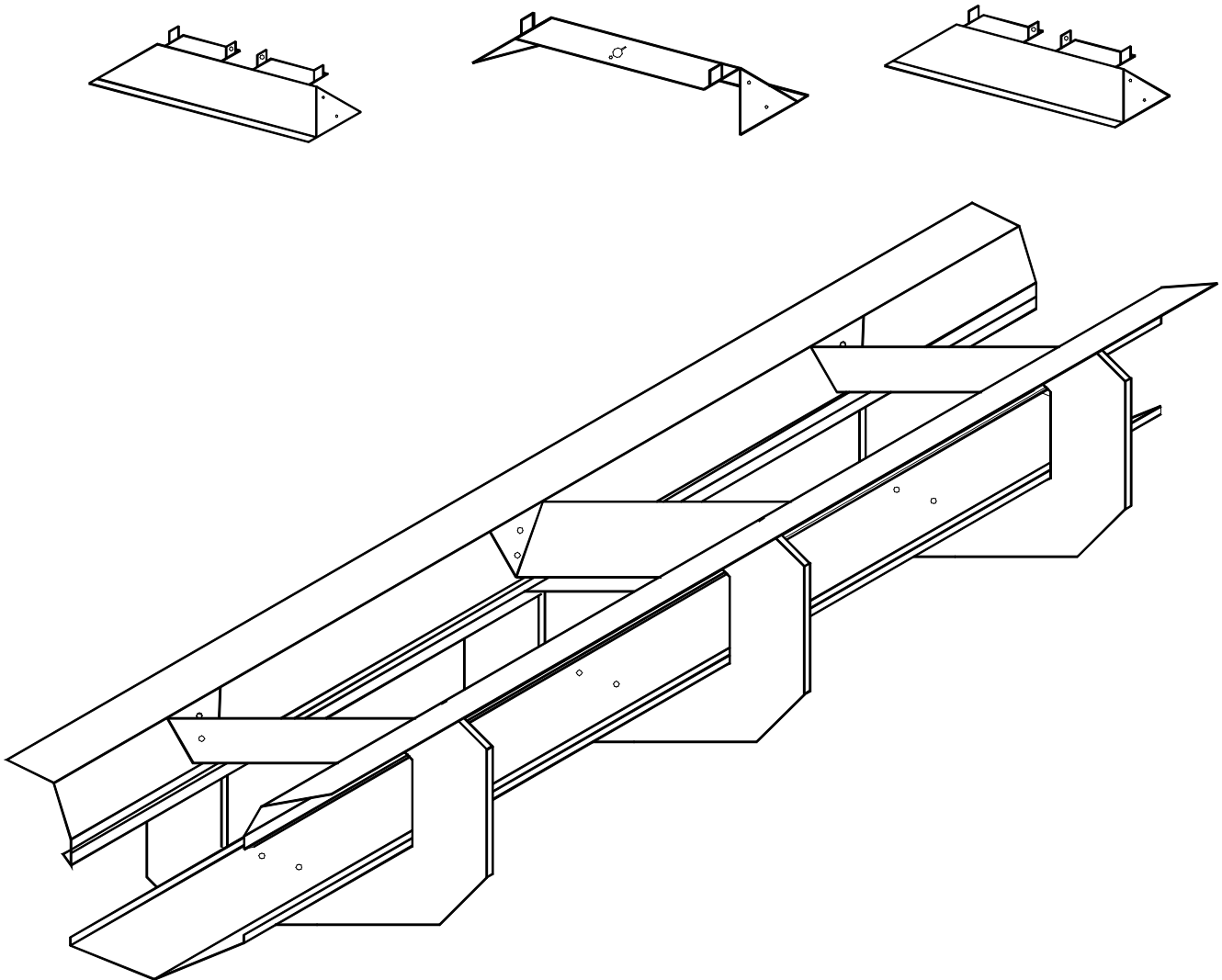
WIND BAND (2)

Lay the two skirt flashings on top of the gussets making sure the holes line up properly as shown below (windbands omitted for clarity).

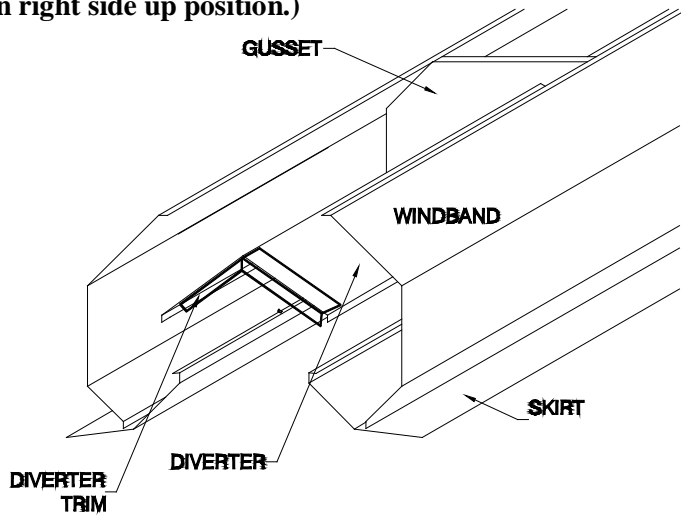


Position the braces over the top of the skirts in the orientation shown (windbands and end caps omitted for clarity). The middle brace is unique with a pathway and keeper provided for the chain operator and guide rod. Using 3/16 closed end rivets, fasten the skirts and braces to the gussets. 12 Rivets are required.

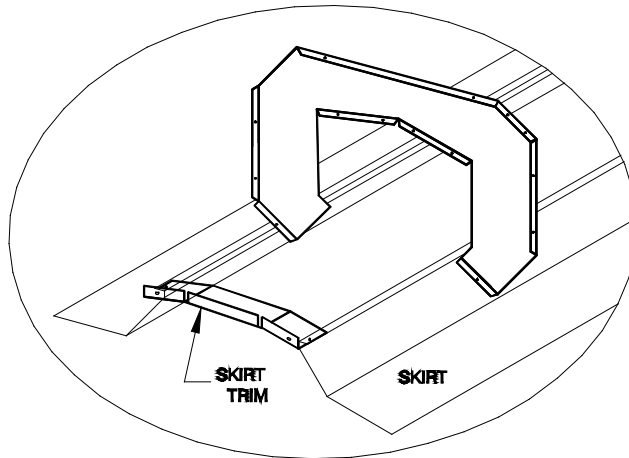
BRACES



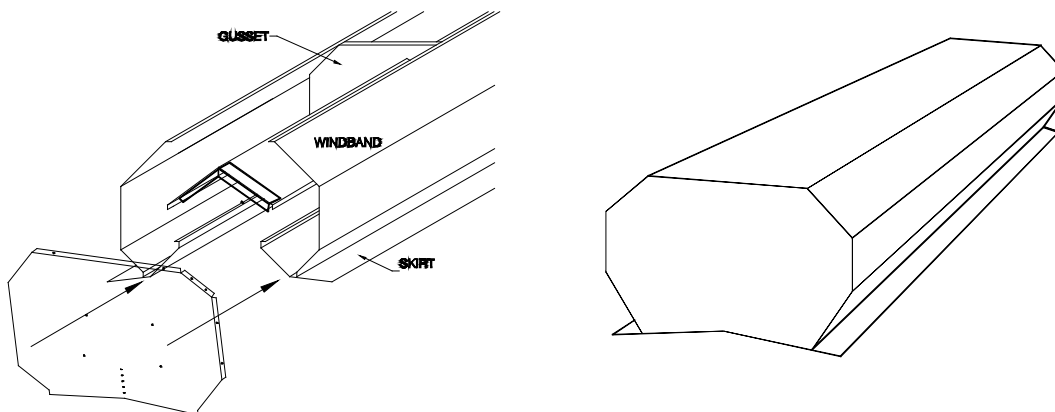
While in the up side down position, form the Diverter Trim by hand to match the shape of the water diverter and fasten one to each end of the diverter using 3/16" rivets. (Drawings shown in right side up position.)



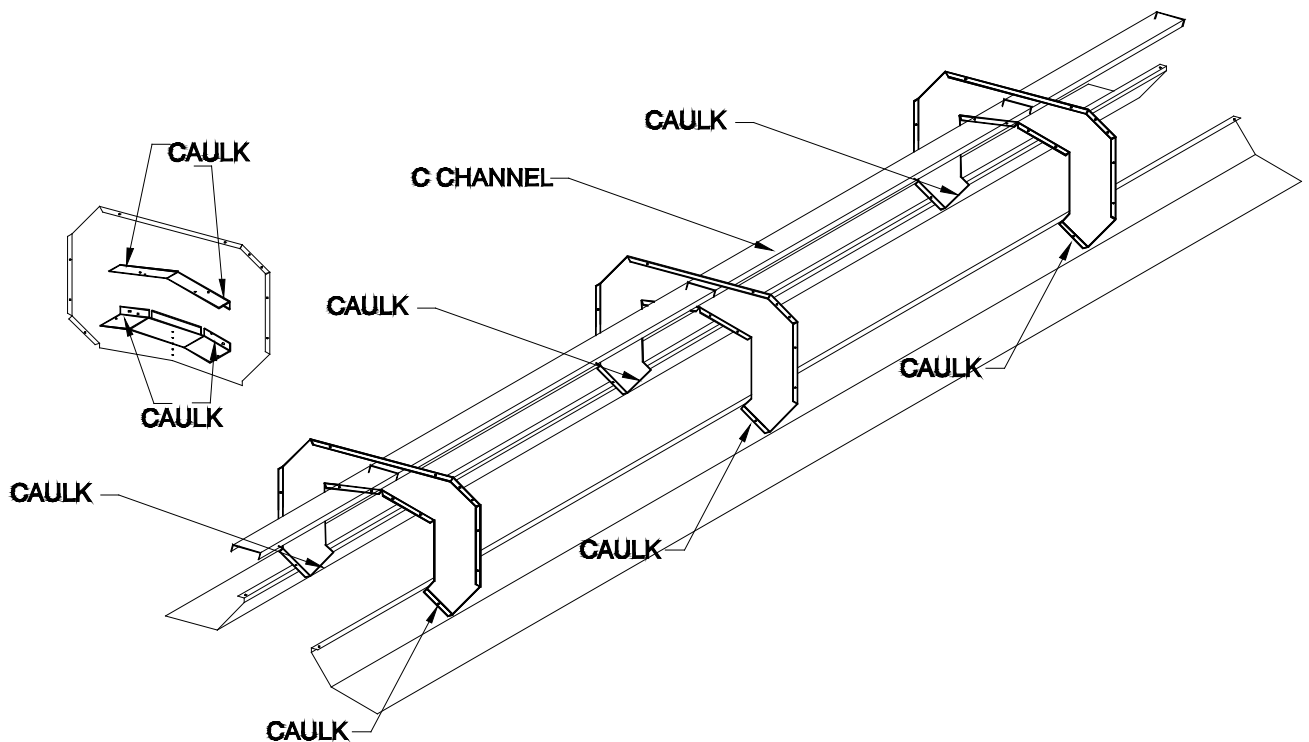
Form the Skirt Trim by hand so the 3/16" holes in the end (not the slots) match up with the holes in the ends of the skirts. Fasten to the skirts using 3/16" rivets.



Attach the End Caps to the end of the vents with the windbands overlapping the flanges on the endcaps. Fasten using 3/16" rivets. Attach skirt and diverter trims to the end caps with 3/16" rivets.



Caulk the Skirt Trim and skirt/end cap joints using the polyurethane caulking.



Turn the vent over 180 degrees. Attach the C Channel lifting arm. Fasten to each gusset. Caulk the End Cap to the Diverter Trim using the polyurethane caulking.

Slide in the screen in place and trim 1/8" shorter than the vent after it is in place.

Attach the screen trim using 3/16" rivets.

After the screen is installed, lift the assemble and place each end safely on a platform so the inside is accessible for caulking. Caulk the gusset/skirt joints around the perimeter and over each blind rivet.

Place the two damper operator arms (long side connects to the damper assembly) into the end braces. Use clevis pins to fasten to damper. Then place the damper pull angle as shown and connect to the damper operator arms with clevis pins. Connect the counter balance extension spring (RV18 uses two springs, RV24 uses three springs) between the end brace and pull angle as shown using the S hook and a self tapping screw.