ULTRA CSV CRAWL SPACE VENT KIT INSTALLATION INSTRUCTIONS

Invented, patented, and perfected in the USA by a crawl space maintenance expert

ULTRA CSV™

VENTS THAT MAKE SENSE℠

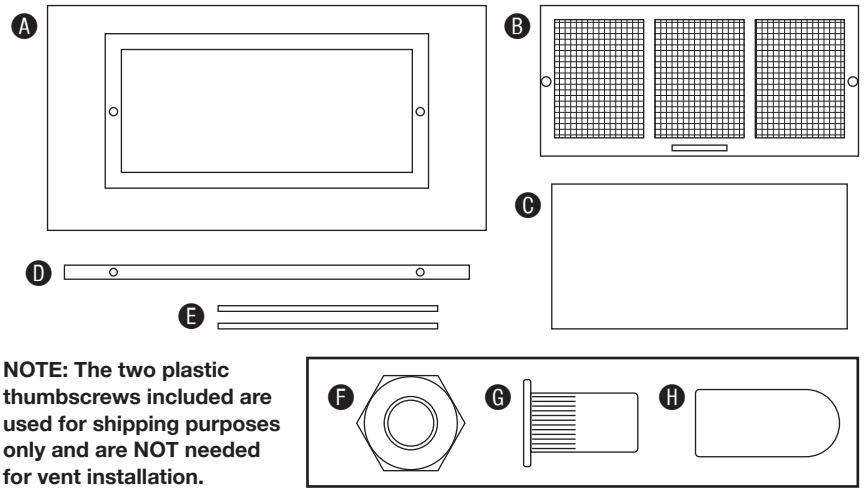
ULTRA CSV—THE BEST CRAWL SPACE VENT FOR REPLACEMENT OR NEW CONSTRUCTION. IDEAL FOR ENCAPSULATION CONVERSION PROJECTS!

- **Easy to install**
- **Improves crawl space ventilation**
- **Provides energy-saving, airtight closure when needed**

Thank you for purchasing the original **Ultra CSV Crawl Space Vent Kit.** We hope you find the Ultra CSV to offer the best value and design for ventilating and sealing crawl spaces—in existing homes or new construction. Please read all instructions before beginning installation. Visit **www.ultracsv.com/FAQs** for additional information.

KIT CONTENTS:

Item	Description	Qty
A	Outer Frame	1
B	Ventilation Door	1
C	Solid Seal Plate	1
D	Cross Bar	1
E	¼–20 x 9¾" Stainless Steel Threaded Rod	2
F	¼–20 Stainless Steel Hex Nuts	4
G	¼–20 Stainless Steel Rivet Nuts	2
H	Vinyl Caps	2



NOTE: The two plastic thumbscrews included are used for shipping purposes only and are NOT needed for vent installation.

1. Remove kit components from packaging and separate outer frame, solid seal plate, and ventilation door by removing the two plastic thumbscrews.

   BEFORE removing old vent, check that Ultra CSV outer frame Ⓐ overlaps foundation vent opening by at least ¼" top and bottom and at least 1¼" on both sides. Foundation opening must be within these size limits (Figure 1).

   Minimum Width = 14⅝" **Minimum Height = 7⅛"**
   Maximum Width = 17" **Maximum Height = 9½"**

   Ultra CSV may be painted before installation. A plastic-compatible spray paint/primer is recommended. Prior to painting, mask off stainless steel screen to maintain maximum airflow through vent.

2. Carefully remove old vent and any protruding fasteners. Measure foundation wall thickness. IF WALL THICKNESS EXCEEDS 8", you will need to purchase and cut two longer pieces of ¼–20 threaded rod, **at least 1¾" longer** than foundation wall thickness, before proceeding.

   CAUTION: Always wear safety glasses and appropriate face mask or respirator when performing demolition and debris removal.

3. Screw one hex nut Ⓕ onto each threaded rod Ⓔ to about 1½" from the end. Screw threaded rods into threaded holes of outer frame so they extend ½" to ⅝" beyond front surface of frame (Figure 2). Holding threaded rods stationary, turn nuts back until they contact frame. Tighten nuts securely with 7⁄16" wrench. DO NOT OVERTIGHTEN.

FOUNDATION VENT OPENING REQUIREMENTS:

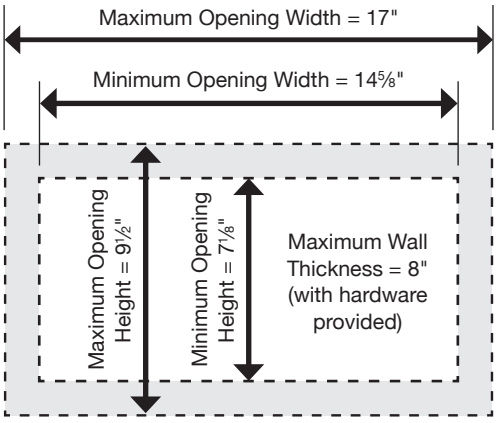


Figure 1

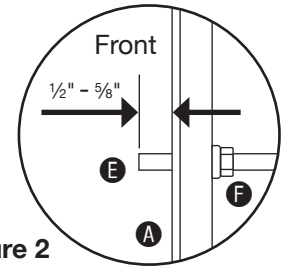


Figure 2

4. Place cross bar Ⓓ onto threaded rods and screw one hex nut Ⓕ onto each rod, turning nuts far enough to keep cross bar loosely assembled onto rods.

5. Do a “test run” to check that back surface of outer frame lays clean and flush against foundation wall. From outside of house, insert Ultra CSV assembly into foundation opening, turning cross bar at a slight angle and positioning ends of cross bar behind foundation wall with outer frame level and centered within opening. If foundation opening dimensions do not allow for a test run with cross bar pre-assembled, keep threaded rods attached to outer frame but remove cross bar and do a test run without cross bar.

6. If back surface of outer frame does not lay flush against foundation wall, carefully remove mortar or debris that prevents a clean, flush fit. Address any interferences that prevent proper fit of outer frame indention within foundation opening. Remove any mortar or portion of soft interior foundation insulation that prevents cross bar from resting firmly against hard inside surface of foundation wall.

7. For a completely airtight seal, remove Ultra CSV assembly and apply a bead of non-petroleum, silicone caulk (not included) to back surface of outer frame within the border area that will contact foundation wall.

8. Position Ultra CSV back into foundation opening for final installation. Reach into crawl space through outer frame, pull cross bar towards foundation wall, and turn both hex nuts by hand until cross bar loosely clamps outer frame to foundation wall. If cross bar was not pre-assembled onto threaded rods, hold outer frame in place and reach through outer frame to place cross bar onto threaded rods. Screw one hex nut onto each threaded rod and turn nuts by hand until cross bar loosely clamps outer frame to foundation wall.

9. With nuts only hand-tight, tap outer frame into final position, level and centered within opening. Reach through outer frame and tighten nuts with a 7⁄16" wrench until cross bar is slightly bowed. DO NOT OVERTIGHTEN. A slight bend (tension) in cross bar ensures proper clamping and sealing of outer frame (Figure 3).

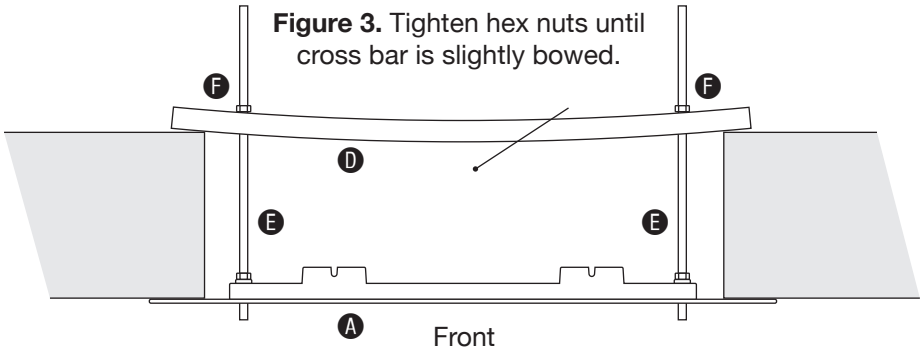


Figure 3. Tighten hex nuts until cross bar is slightly bowed.

10. Install ventilation door Ⓑ onto threaded rod extensions and secure it by using two steel rivet nuts Ⓖ. Tighten rivet nuts by hand only. DO NOT USE PLIERS. Apply vinyl end caps Ⓗ over rivet nuts to protect from dirt and moisture (Figure 4). For winter season, install solid seal plate Ⓒ behind ventilation door by removing vinyl caps, rivet nuts, and ventilation door. Center solid seal plate inside the outer frame and reinstall ventilation door. Keep seal plate installed year-round for airtight crawl space encapsulation. For additional energy savings, insulation of your choice may be added in the space between cross bar and seal plate.

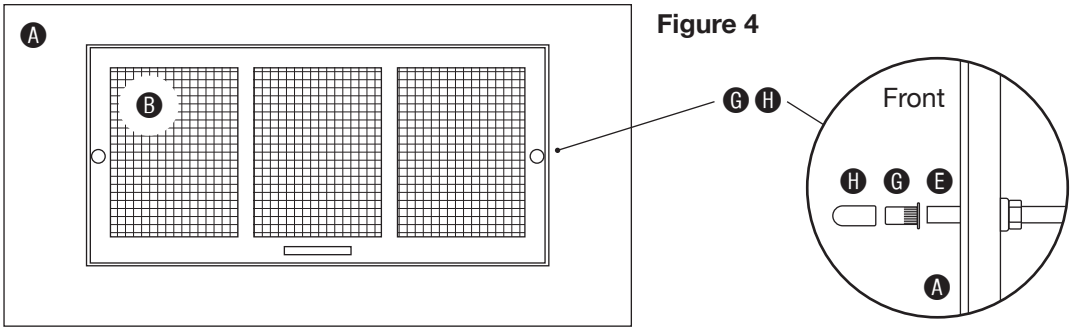


Figure 4

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Questions? Comments? Please contact us at **sales@ultracsv.com** or **1-888-365-VENT** (8368)

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