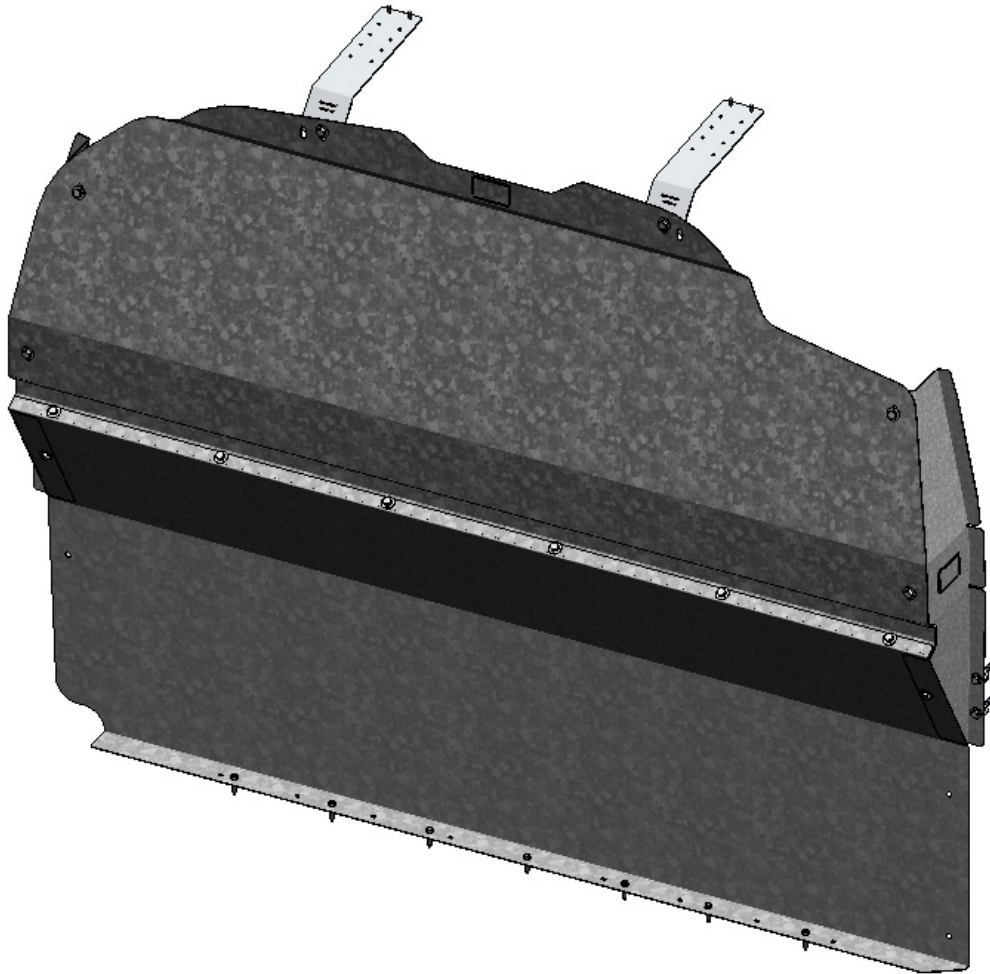


INSTALLATION GUIDE



C12-H CONTOURED PARTITION

Chevrolet Express / GMC Savana (Steel)



Scan the QR for the latest Install-Guide.





BEFORE YOU BEGIN

READ, UNDERSTAND, AND FOLLOW ALL WARNINGS AND INSTRUCTIONS BEFORE USING THIS PRODUCT. FAILURE TO FOLLOW THESE DIRECTIONS MAY RESULT IN PROPERTY DAMAGE, SERIOUS BODILY INJURY, AND/OR DEATH. RANGER DESIGN IS NOT RESPONSIBLE FOR ANY PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH THAT OCCURRED WHILE USING ANY RANGER DESIGN PRODUCTS.



WARNING

- Failure to use Ranger Design-provided fasteners, brackets, and proper installation guidelines could increase risk of serious personal injury and/or death.
- If drilling is required to complete this installation: improper drilling can cause property damage to vehicles and could lead to electric shock, fire, or even death.
- If drilling is required to complete this installation: Ensure that drilling is only performed on areas of the vehicle allowed by the vehicle's Original Equipment Manufacturer's Body Builders Layout Book (or equivalent document).
- Prior to installation, inspect the vehicle to ensure that installation will not interfere with, or cause obstruction of, any critical components such as electrical wiring, fuel tanks, fuel-cells, locks, latches, etc.
- The installer or manufacturer is responsible for ensuring anchorages are installed onto suitable wall and floor structures; wall and floor strength must meet applicable performance requirements.
- Do not install systems into any weak or unsound materials such as plastics, woods, thin-walled metals, etc. without proper reinforcement.
- Do not install this product where it could interfere with the deployment of airbags. Failure to comply could result in death or serious injury.
- Do not install this product where it could ingress on the Transit Occupant Protection Zone. Failure to comply could result in death or serious injury.
- Incorrect installation could cause water leaks, electric shock or fire.
- Any cargo vehicle with any cargo or equipment should use a certified partition. See Ranger Design website for some partition options. (<https://rangerdesign.com/>)
- Mountings rails are recommended for any attachment to the vehicle walls.
- All items in the cargo area should be properly secured and partition doors closed while the vehicle is in motion.
- Check your vehicle's tare weight and remaining load capacity with all the equipment installed. Never exceed the maximum Gross Vehicle Weight Rating (GVWR), Gross Axle Weight Ratings (GAWRs), or other maximum loads permitted by the vehicle's Original Equipment Manufacturer (OEM) and required by law.
- The heaviest items must be placed towards the bottom of the vehicle, while the lightest ones can be arranged upwards. Vehicle cargo loading weight proportion should follow the following guidelines:



- The final alterer and/ or modifier should review the warning sheet with the customer before the vehicle is released to the customer or for general use. These instructions should remain with the vehicles a all times.
- Any modification or unintended use of this product voids any warranty and could create a hazardous condition.
- Ranger Design provides recommended assembly and installation instructions which should be followed to ensure correct operation. Failure to do so could result in invalidating the product's compliance, warranty and cause injury. Notwithstanding, the final stage vehicle alterer and/or modifier is responsible for the integration, installation, and compliance of the product in its final location to all applicable regulations and standards. Failure to maintain compliance of the vehicle to applicable regulations and standards could be punishable by law. Alterers and/or modifiers should consult with all local authorities prior to commissioning.



CAUTION

- Drilling is required to complete this installation. Before drilling, ensure that you will not hit any critical parts of the vehicle like the gas tank, wiring harness, or hose. Consult the vehicle OEM documentation as necessary. When drilling, use a drill collar to reduce the risk of damage to the vehicle.
- Any materials, padding, or glazing installed in the vehicle must comply with FMVSS/CMVSS 201/205/302, as applicable.
- In the event of a motor vehicle accident or collision where a Ranger system has been installed, especially ones where the vehicle structure is damaged and/or the air bags deploy and/or the vehicle has been towed, the system must be inspected to ensure continued soundness and safety before returning the vehicle to service. Damaged components should be replaced as necessary.
- All system components should be regularly inspected, cleaned, and maintained pursuant to Ranger guidelines.

QUICK START GUIDE

Phase 1 - Assembly

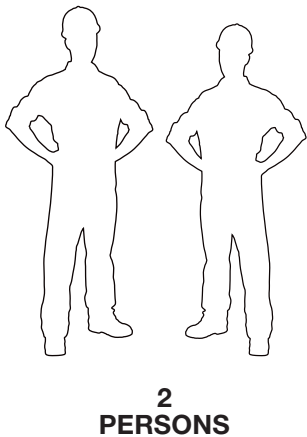
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REQUIRED ITEMS

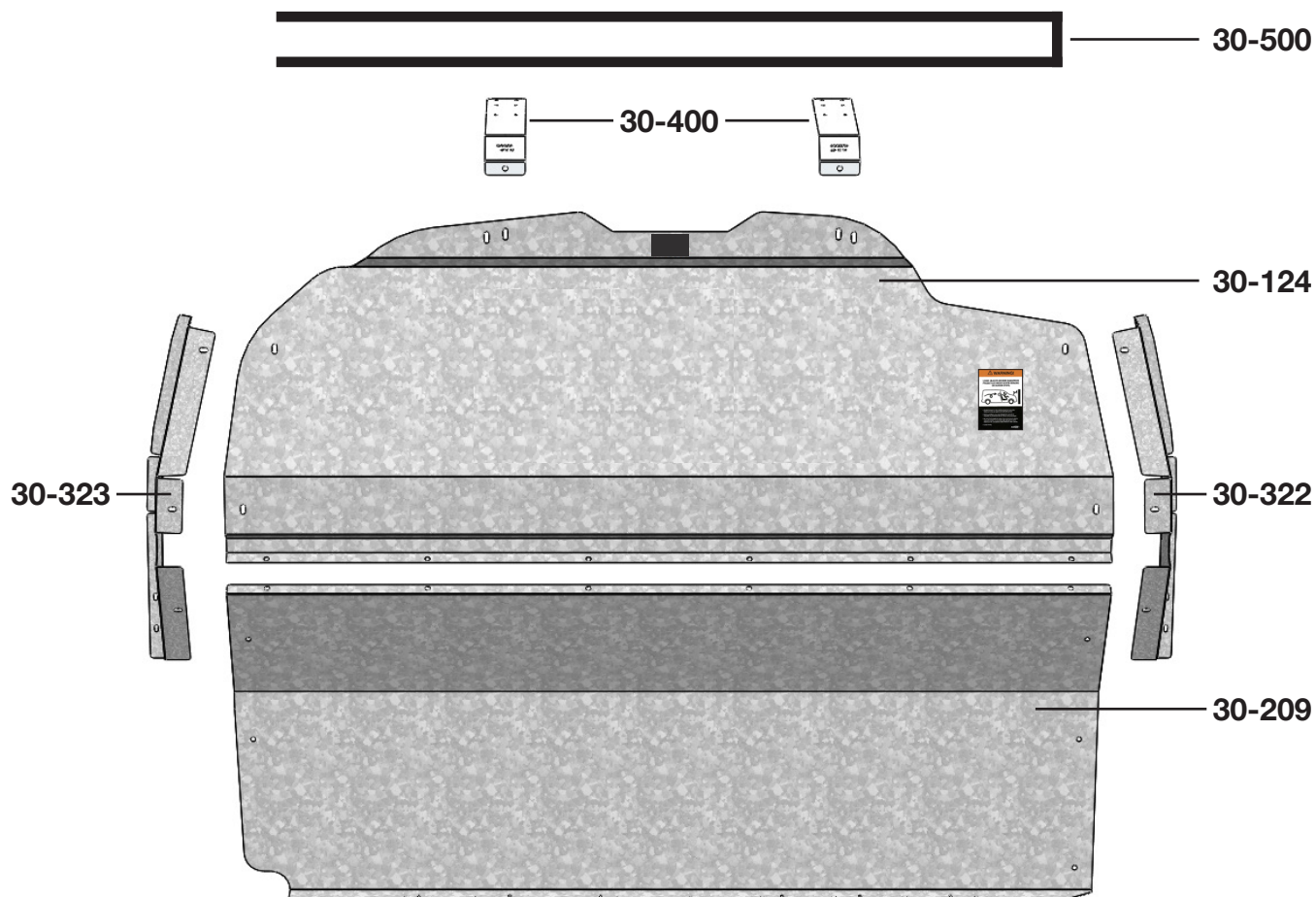
- ❑ Cordless Driver
- ❑ Cordless Impact
- ❑ Cordless Drill
- ❑ Cutter
- ❑ Mallet
- ❑ Marker
- ❑ Plusnut Tool
- ❑ R2 Square Driver Bit
- ❑ 3/8" Driver Bit
- ❑ 7/16" Socket
- ❑ 1/2" Socket
- ❑ 9/16" Wrench
- ❑ 1" Hole Saw



PHASE 1 – ASSEMBLY

1.1 SETUP

1.1.1 Unpack components; compare with the bill of materials.

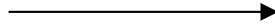


1.1.2 Verify all parts are present.

Item No.	Description	Qty.
30-124	Upper Panel	1
30-209	Lower Panel	1
30-322	Passenger Side Wing	1
30-323	Driver Side Wing	1
30-400	Ceiling Bracket	2
30-500	Edge Trim (QTY in Inches)	174
79-932	Warning label - Bilingual, partition	1
94-3044	Assembly Fastener Bag	1
96-3030	Installation Fastener Bag	1




1.1.3 Identify the **Assembly** and **Installation** fastener bags.

Assembly Fastener Bag

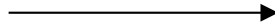


Hardware Assembly

- 14x**  **# 90-204** Hex Bolt
5/16"-18 x 3/4"
GR-5 ZINC
- 14x**  **# 94-116** Serrated Nut
5/16"-18
ZINC
- 14x**  **# 98-116** Flat Washer
5/16", 7/8" OD
ZINC

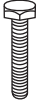





- 14x**
-  #90-204 Hex Bolt 5/16" x 3/4"
-  #98-116 Flat Washer
-  #94-116 Serrated Nut


Installation Fastener Bag



Hardware Assembly

- 4x**  **# 90-130** Hex Bolt
1/4"-20 x 2"
GR-5 ZINC
- 7x**  **# 92-104** Hex Screw
#14 x 1-1/4"
GR-5 ZINC
- 4x**  **# 92-174** Screw Round Head
#10 x 3/4"
ZINC
- 4x**  **# 94-130** Plusnut .250
- 4x**  **# 98-112** Flat Washer
1/4", 3/4" OD
ZINC
- 4x**  **# 98-118** Lock Washer
Regular 1/4"
ZINC
- 8x**  **# 98-157** Spacer
0.375" ID, x 1.0" OD x 0.25" L
NYLON
- 4x**  **# 98-158** Retaining Washer
M16 (1/4")
NYLON

- 4x**
-  #90-130 Hex Bolt 1/4" x 2"
-  #98-118 Lock Washer
-  #98-112 Flat Washer
-  #98-157 Spacers (2)
-  #94-130 Plusnut .250
-  #94-130 Plusnut .250

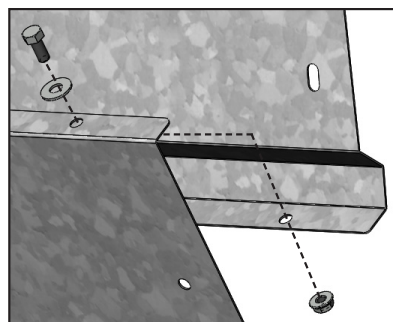
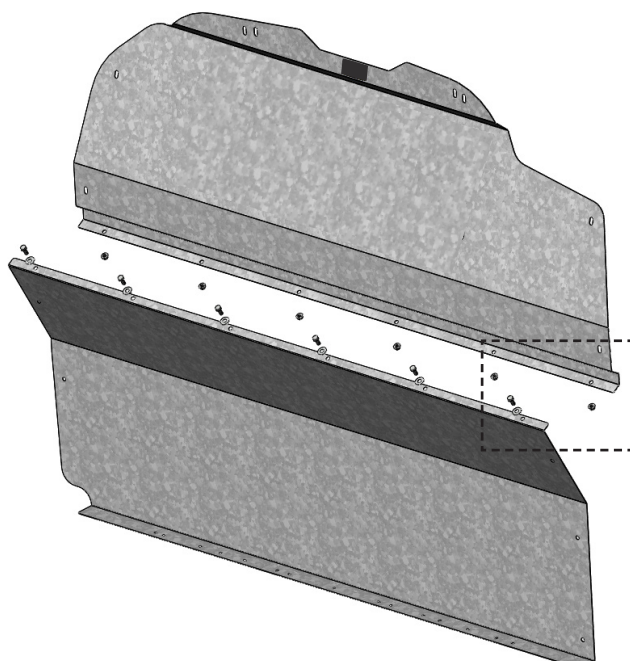
- 7x**
-  #92-104 Hex Screw #14 x 1-1/4"

- 4x**
-  #92-174 Screw #10 x 3/4"

PHASE 1 – ASSEMBLY

1.2 PARTITION ASSEMBLY

1.2.1 Remove all the PVC from all the parts, then attach the upper panel to the lower panel.



TOOLS

- ☐ Cordless Impact
- ☐ Knife
- ☐ 1/2" Socket

HARDWARE USED

6x



#90-204 Hex Bolt 5/16" x 3/4"

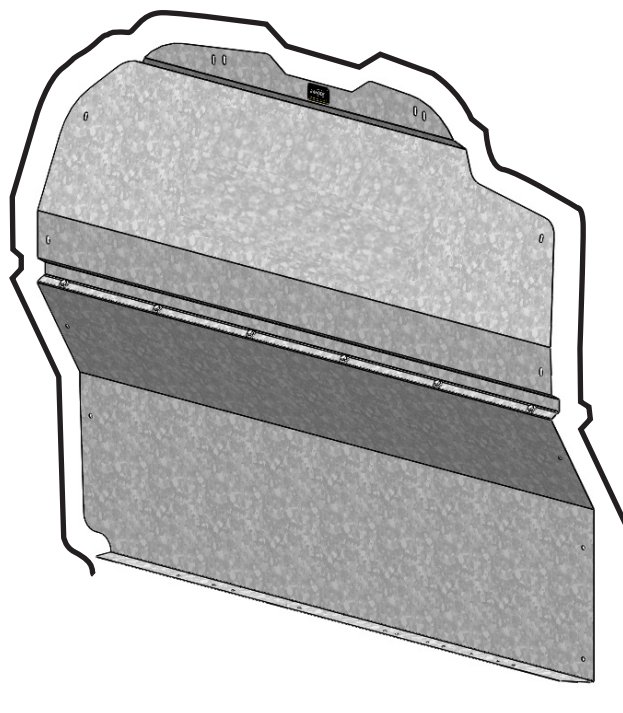


#98-116 Flat Washer



#94-116 Serrated Nut

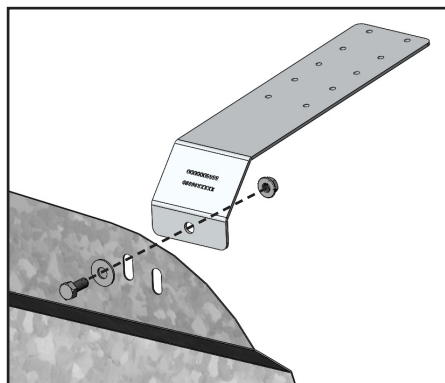
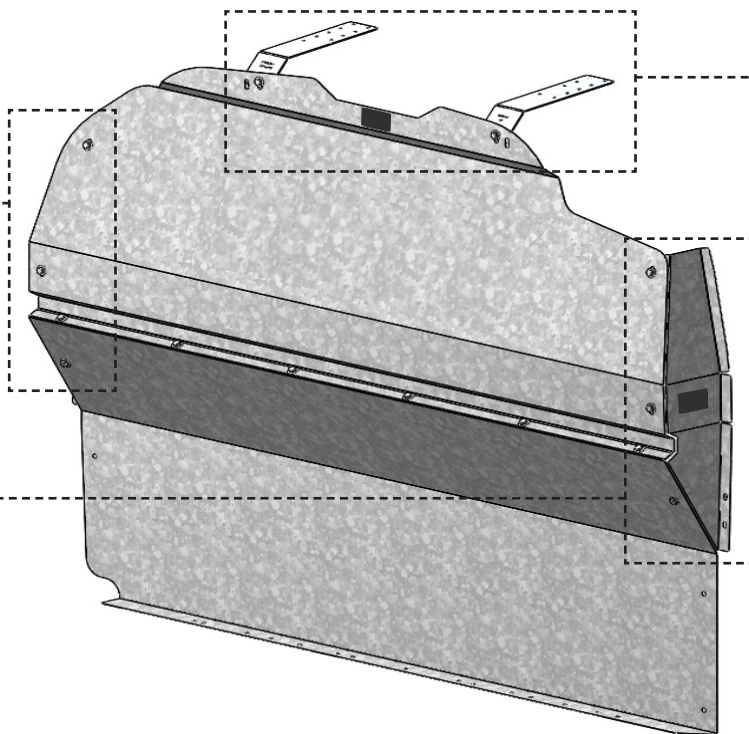
1.2.2 Attach the edge trim on the contour of the partition.



TOOLS

- ☐ Mallet
- ☐ Cutter

- 1.2.3** • Attach both ceiling brackets on the upper panel
- Attach both wings to the upper and lower panels.



TOOLS

- Cordless Impact
- 1/2" Socket

HARDWARE USED

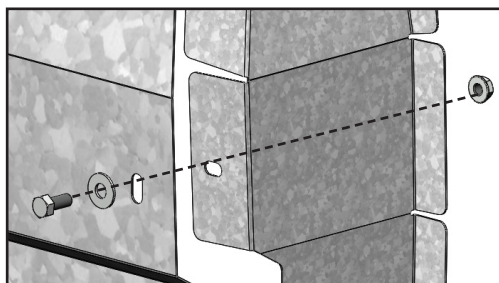
2x



#90-204 Hex Bolt 5/16" x 3/4"

#98-116 Flat Washer

#94-116 Serrated Nut



HARDWARE USED

6x



#90-204 Hex Bolt 5/16" x 3/4"

#98-116 Flat Washer

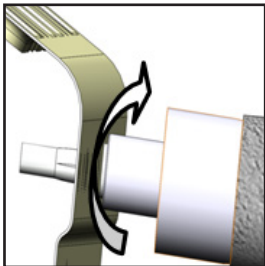
#94-116 Serrated Nut

PHASE 2 – INSTALLATION

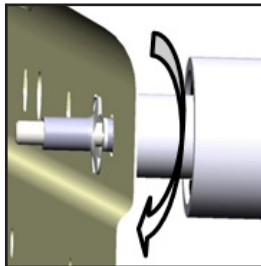
2.1 TIPS ON HOW TO ATTACH A PLUSNUT

2.1.1 Attach the plusnut using the plusnut gun.

TIPS: Put the plusnut on the plusnut gun, then attach the plusnut in the hole by turning the gun forward until the plusnut locks, then remove the gun by turning in reverse.



FORWARD

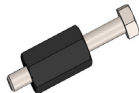


REVERSE



2.1.2 Attach the plusnut using the 6490 plusnut tool.

NOTE: The hardware used for the 6490 plusnut tool is not included in the fastener bag. The 6490 plusnut tool can be ordered separately upon demand at no charge.

6490



HARDWARE USED

-  Flat washer 1/4"
-  Flat washer 1/4" BS x 3/4" OD

TOOLS

- ☐ Cordless Impact
- ☐ 7/16" Socket
- ☐ 9/16" Wrench

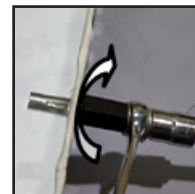
TIPS STEP 1:

Assemble the 6490 plusnut tool with the hardware needed, plusnut and the 9/16" wrench as shown.



TIPS STEP 2:

Attach the plusnut in the hole by turning the bolt forward using an impact with a 7/16" socket until the plusnut locks, then remove the bolt by turning the impact in reverse.



FORWARD

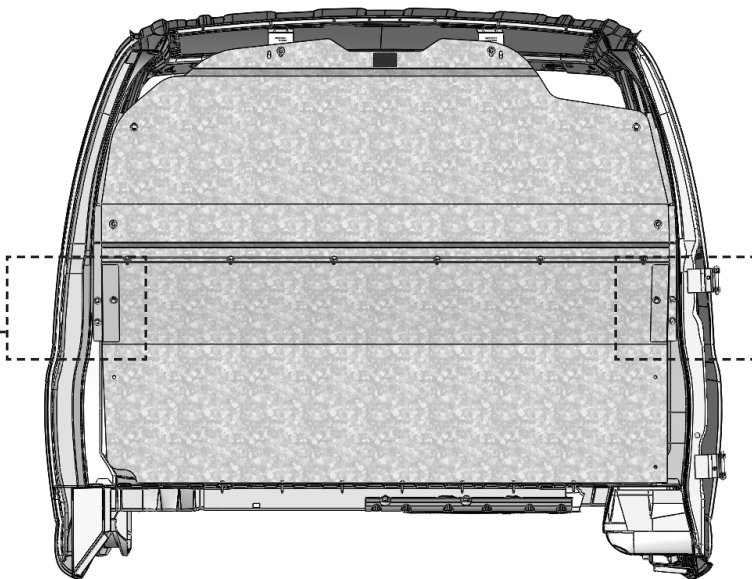


REVERSE

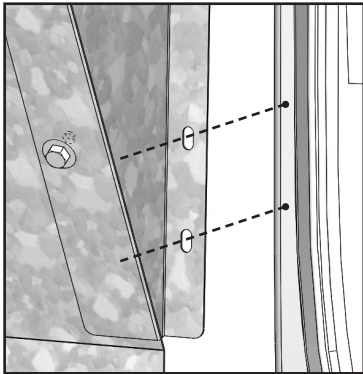
PHASE 2 – INSTALLATION

2.2 VEHICLE PREPARATION

2.2.1 Driver and passenger sides preparation.



The diagram shows the interior of a van with the partition removed. A large plastic cover is installed over the side walls. Dashed lines indicate the areas for drilling holes in the plastic cover.

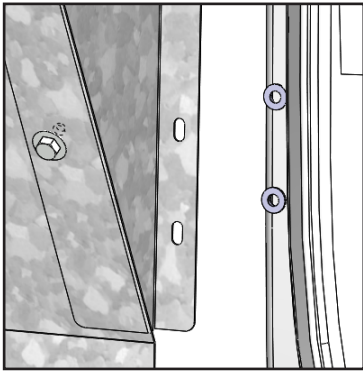


This close-up diagram shows the plastic cover with four holes marked for drilling. Dashed lines indicate the placement of the holes on both wings of the cover.

- Lift the partition in the van.
- Mark the 4 holes of both wings on the plastic cover of the van.
- Pull the plastic cover to ensure that's nothing in the way before drilling.
- Use a 1" hole saw to drill through the plastic.

TOOLS

- ☐ Marker
- ☐ 1" Hole Saw
- ☐ Cordless Drill



This close-up diagram shows the plastic cover with four plusnuts attached to the holes. The plusnuts are shown in the process of being attached to the plastic cover.


- Drill 3/8" dia on van using the center of the hole on the plastic cover as a template.
- Attach plusnuts in the 4 holes.

TOOLS

- ☐ Plusnut Tool
- ☐ Cordless Drill
- ☐ 3/8" Drill Bit

HARDWARE USED

4x

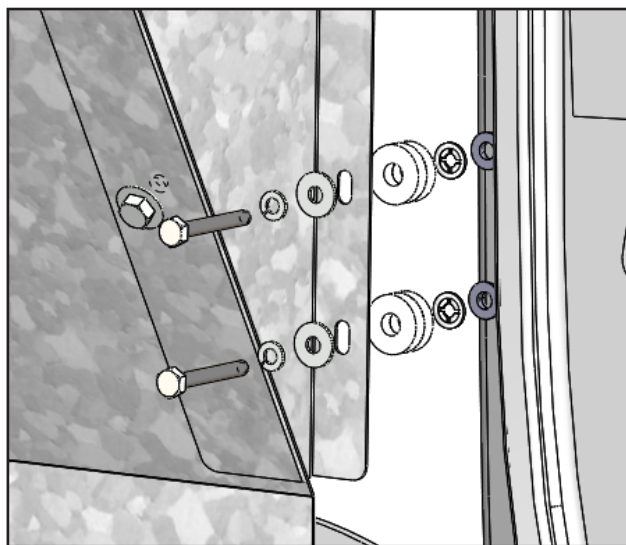
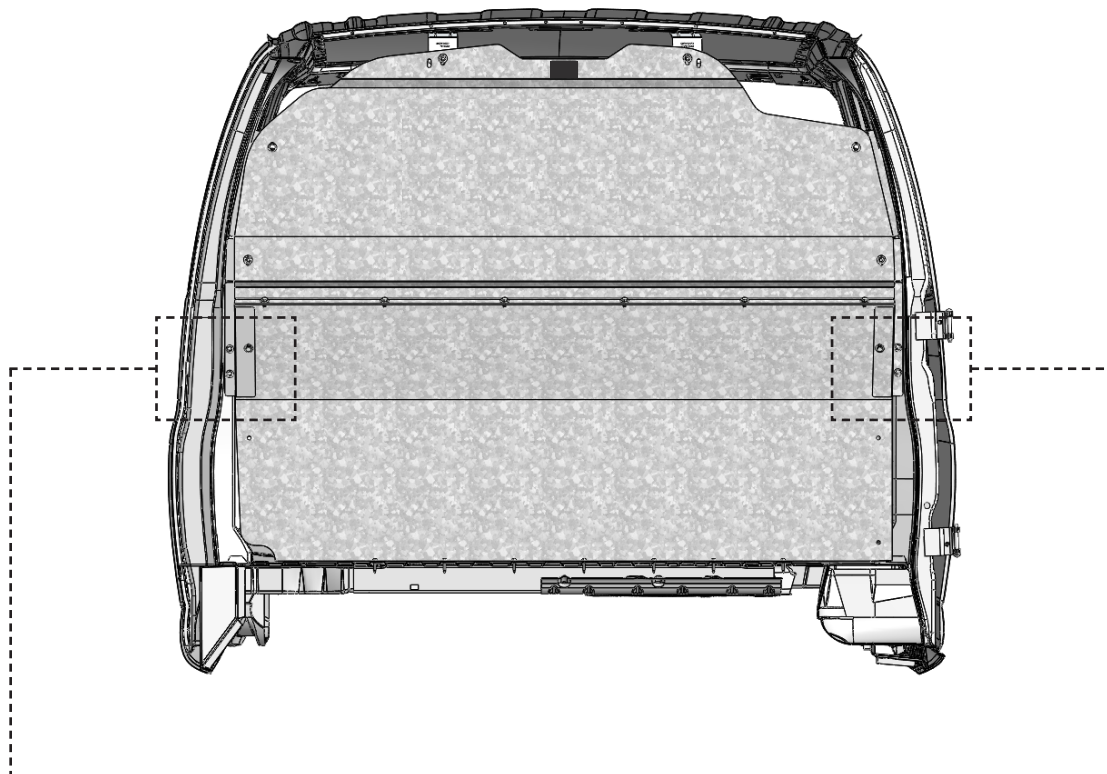


#94-130 Plusnut .250

PHASE 2 – INSTALLATION

2.3 CONTOURED PARTITION INSTALLATION

2.3.1 Attach both wings to the van.









TOOLS

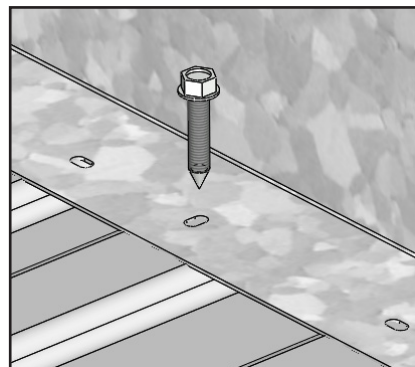
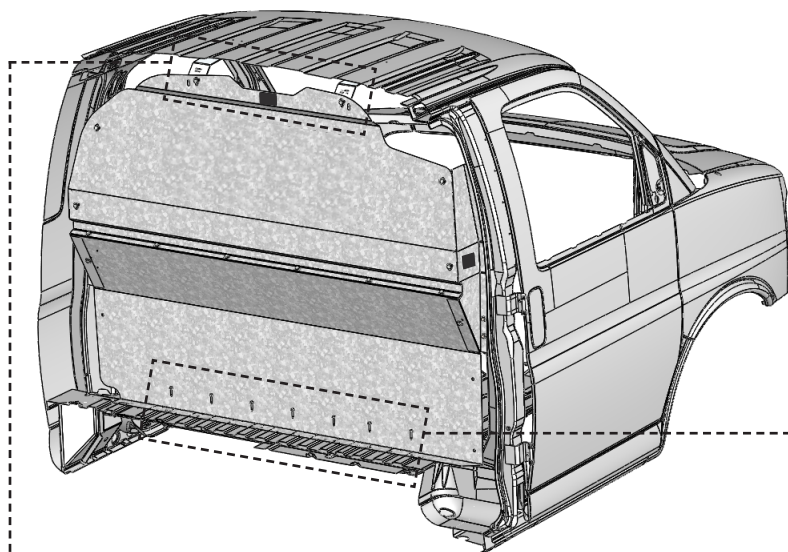
- Cordless Impact
- 7/16" Socket

HARDWARE USED

4x

- | | |
|--|----------------------------|
|  | #90-130 Hex Bolt 1/4" x 2" |
|  | #98-118 Lock Washer |
|  | #98-112 Flat Washer |
|  | #98-157 Spacers (2) |
|  | #94-130 Plusnut .250 |
|  | #94-130 Plusnut .250 |

- 2.3.2** • Screw the lower panel to the van floor.
 • Attach both ceiling brackets to the van.



TOOLS

- ☐ Cordless Driver
- ☐ 3/8" Driver Bit

HARDWARE USED

7x



#92-104 Hex Screw #14 x 1-1/4"

NOTE: Align the screws with the plastic plugs in the van.



TOOLS

- ☐ Cordless Driver
- ☐ R2 Square Driver

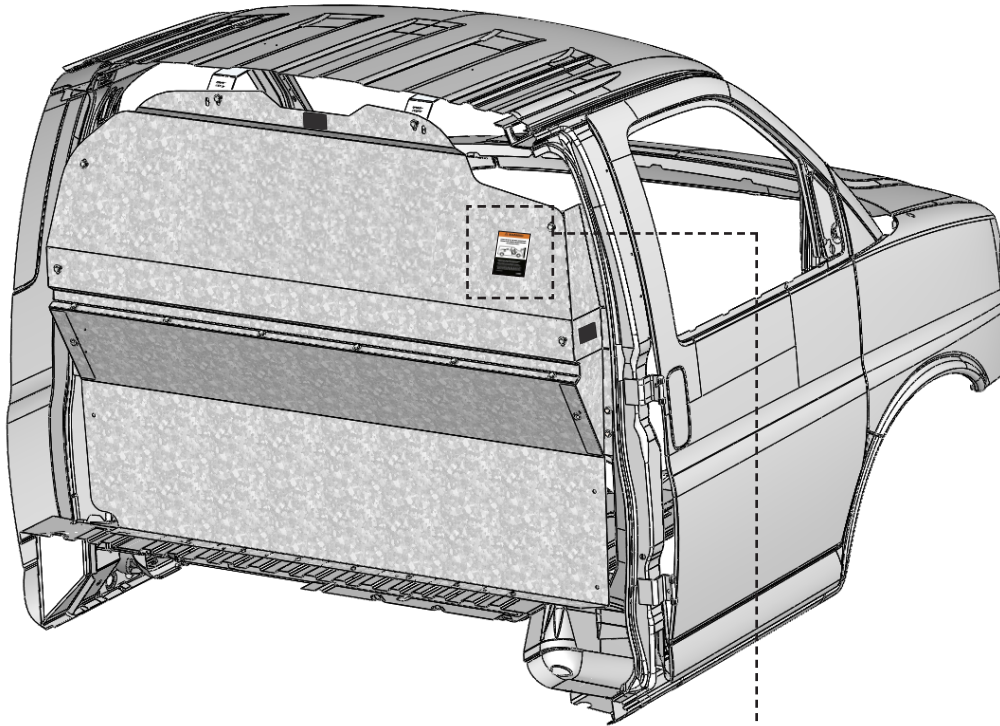
HARDWARE USED

4x

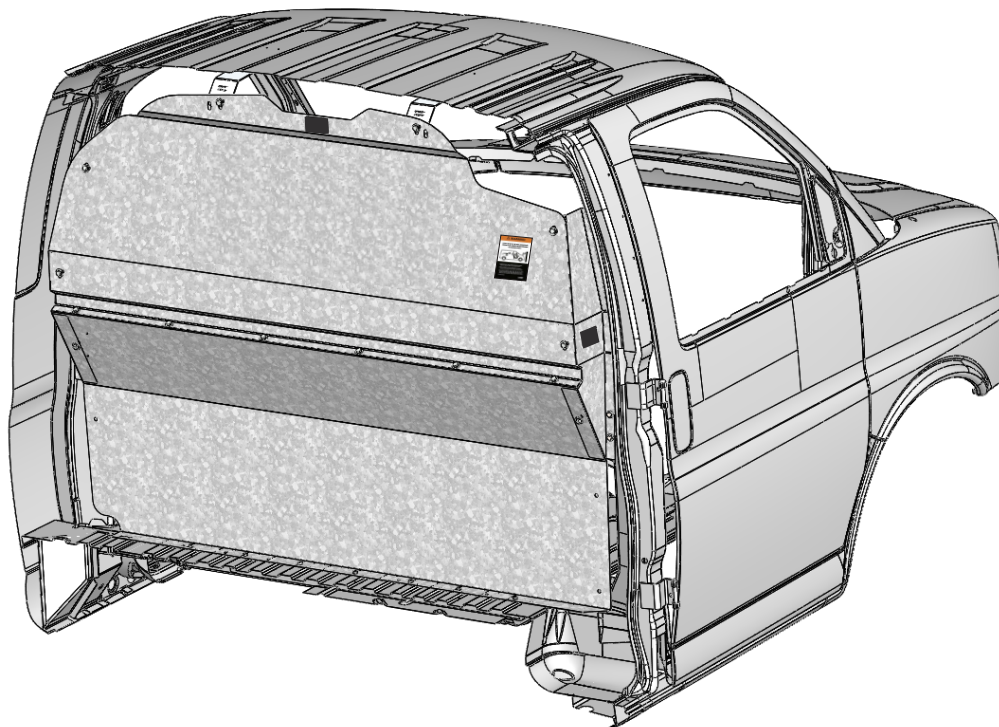


#92-174 Screw #10 x 3/4"

2.3.3 Apply the warning label on the upper panel.



NOTE: Put the warning label in a place where it's easy to see.



**“Congratulations, you have successfully installed your
Contoured Partition!”**

Thank you for doing business with us.”

