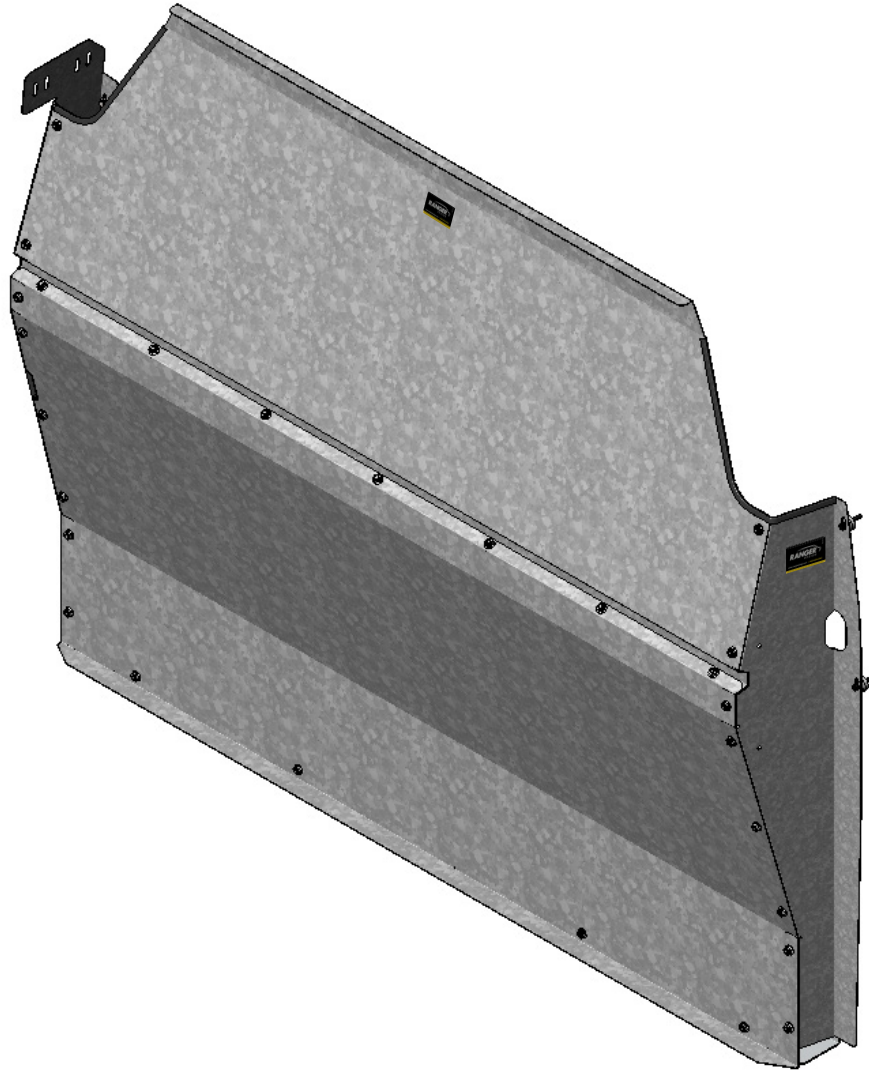


INSTALLATION GUIDE



C12-FTL CONTOURED PARTITION

Transit Partition (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

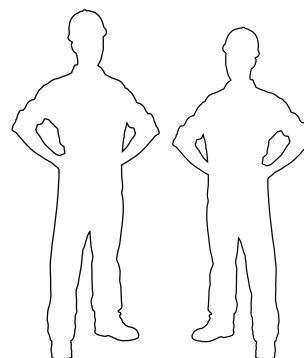
<input type="checkbox"/> 1.1 Setup.....	4
<input type="checkbox"/> 1.1.1 Unpack components; compare with the bill of materials.....	6
<input type="checkbox"/> 1.1.2 Verify all parts are present.....	4
<input type="checkbox"/> 1.1.3 Identify the assembly and installation fastener bags.....	5
<input type="checkbox"/> 1.2 Partition assembly.....	6
<input type="checkbox"/> 1.2.1 Remove all the PVC from all the parts, then attach the upper panel to the lower panel.....	6
<input type="checkbox"/> 1.2.2 Attach both wings to the upper and lower panels.....	6
<input type="checkbox"/> 1.2.3 Attach the edge trims on these locations.....	7

Phase 2 - Installation

<input type="checkbox"/> 2.1 Tips on how to attach a plusnut.....	7
<input type="checkbox"/> 2.1.1 Attach plusnut using plusnut gun.....	7
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REQUIRED ITEMS

- Cordless Impact
- Cordless Drill
- Cutter
- Flat Screwdriver
- Mallet
- Marker
- Plusnut Tool
- Socket Wrench
- Tape Measure
- 3/8" Drill Bit
- 7/16" Socket
- 1/2" Socket
- 9/16" Wrench
- 1" Hole Saw
- 10mm Socket
- 13mm Socket
- T50 Torx Bit

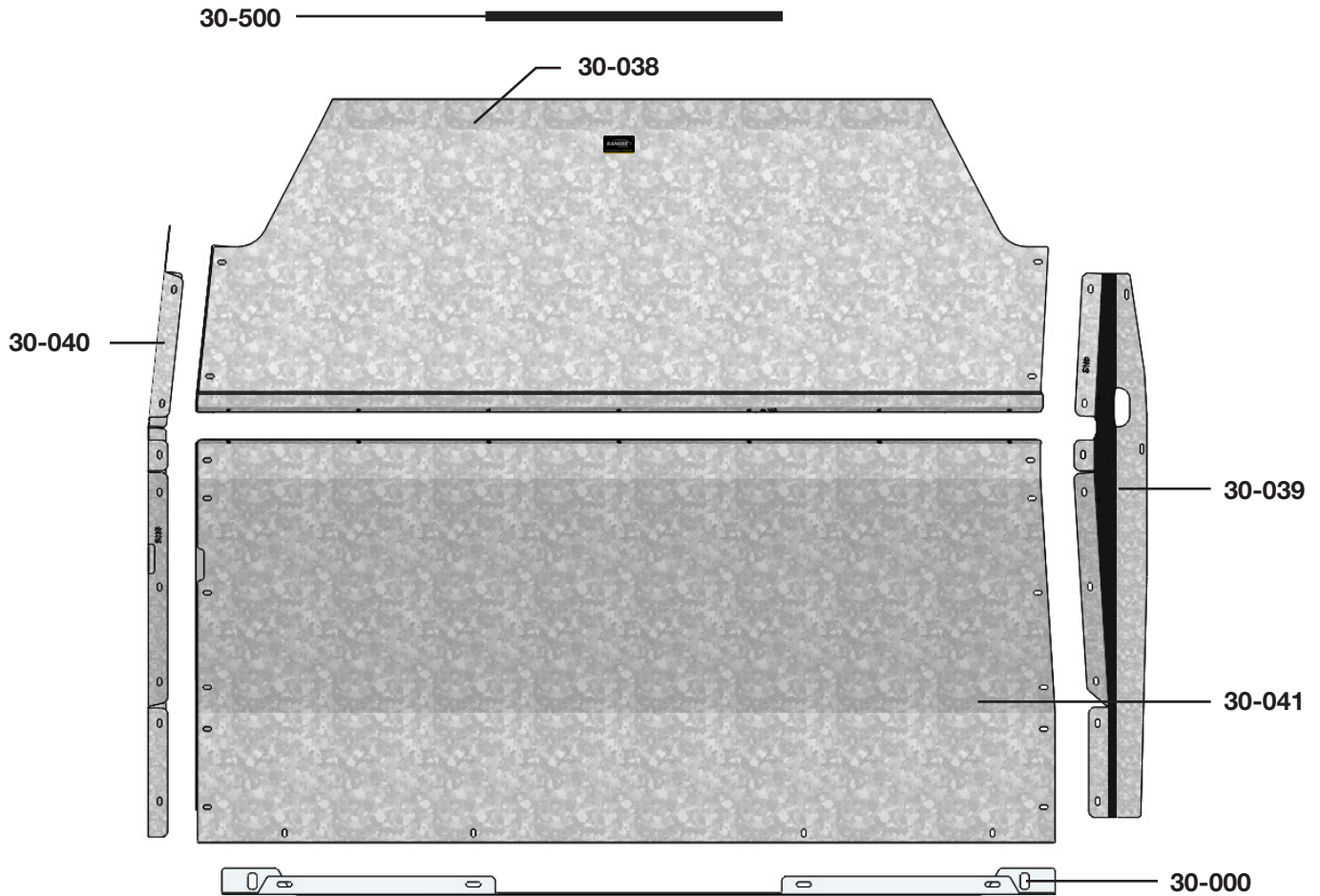


2
PERSONS

PHASE 1 – ASSEMBLY

1.1 SETUP

1.1.1 Unpack components; compare with the bill of materials.

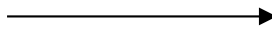


1.1.2 Verify all parts are present.

Item No.	Description	Qty.
30-000	Floor Bracket	1
30-038	Upper Panel	1
30-039	Passenger Side Wing	1
30-040	Driver Side Wing	1
30-041	Lower Panel	1
30-500	Edge Trim (QTY in Inches)	38
79-932	Warning label - Bilingual, partition	1
94-3012	Assembly Fastener Bag	1
96-3005	Installation Fastener Bag	1

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




Assembly Fastener Bag



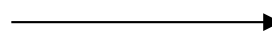
Hardware Assembly

- 27x  # 90-200 Hex Bolt
5/16"-18 x 1/2"
GR-5 ZINC
- 27x  # 94-116 Serrated Nut
5/16"-18
ZINC
- 27x  # 98-116 Flat Washer
5/16", 7/8" OD
ZINC






27x

-  #90-200 Hex Bolt 5/16" x 1/2"
-  #98-116 Flat Washer
-  #94-116 Serrated Nut

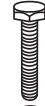





Installation Fastener Bag



Hardware Assembly

- 2x  # 90-010 Screw, Torx
7/16"-20 x 1"
GR-10.9 ALLOY STL
- 2x  # 90-130 Hex Bolt
1/4"-20 x 2"
GR-5 ZINC
- 2x  # 90-836 Hex Bolt
M6-1.00 x 40 CL 12.9 DIN
933 BLACK OXIDE
- 2x  # 94-130 Plusnut .250
- 4x  # 98-112 Flat Washer
1/4", 3/4" OD
ZINC
- 4x  # 98-118 Lock Washer
Regular 1/4"
ZINC
- 2x  # 98-141 Square Flat Washer
0.438" ID, x 1.000" SQUARE
- 8x  # 98-157 Spacer
0.375" ID, x 1.0" OD x 0.25" LONG
NYLON
- 4x  # 98-158 Retaining Washer
M16 (1/4")
NYLON



2x

-  #90-130 Hex Bolt 1/4" x 2"
-  #98-118 Lock Washer
-  #98-112 Flat Washer
-  #98-157 Spacers (2)
-  #98-158 Retaining Washer
-  #94-130 Plusnut .250

2x

-  #90-836 Hex Bolt M6 x 40
-  #98-118 Lock Washer
-  #98-112 Flat Washer
-  #98-157 Spacers (2)
-  #98-158 Retaining Washer

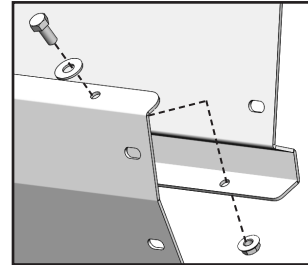
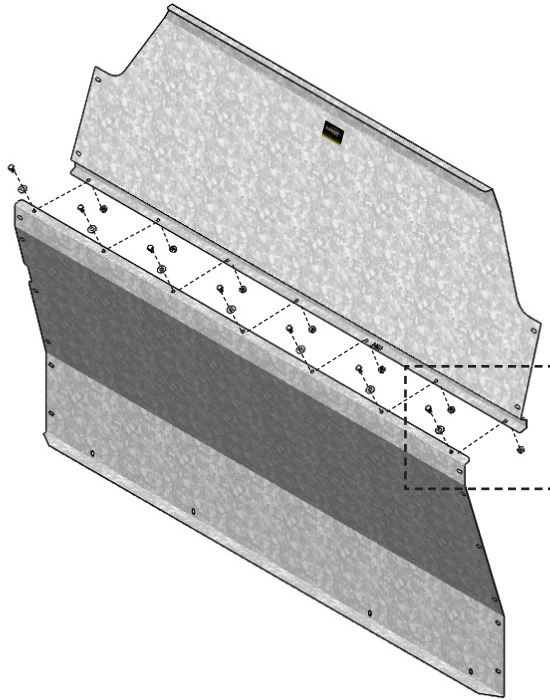
2x

-  #90-010 Screw, Torx 7/16" x 1"
-  #98-141 Square Flat Washer

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

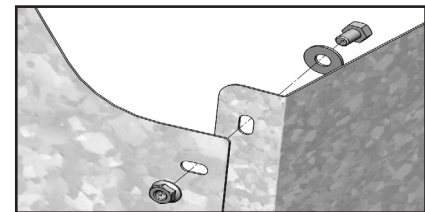
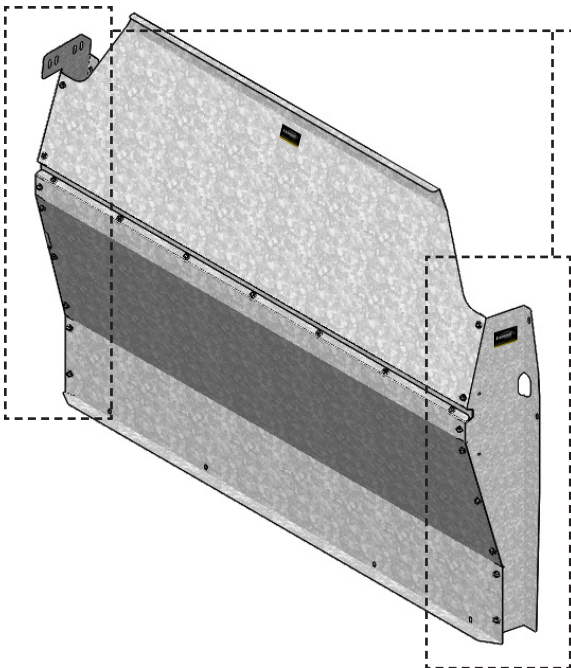
- Cordless Impact
- 1/2" Socket

HARDWARE USED

7x

- | | |
|---|-------------------------------|
|  | #90-200 Hex Bolt 5/16" x 1/2" |
|  | #98-116 Flat Washer |
|  | #94-116 Serrated Nut |

1.2.2 Attach both wings to the upper and lower panels.






TOOLS

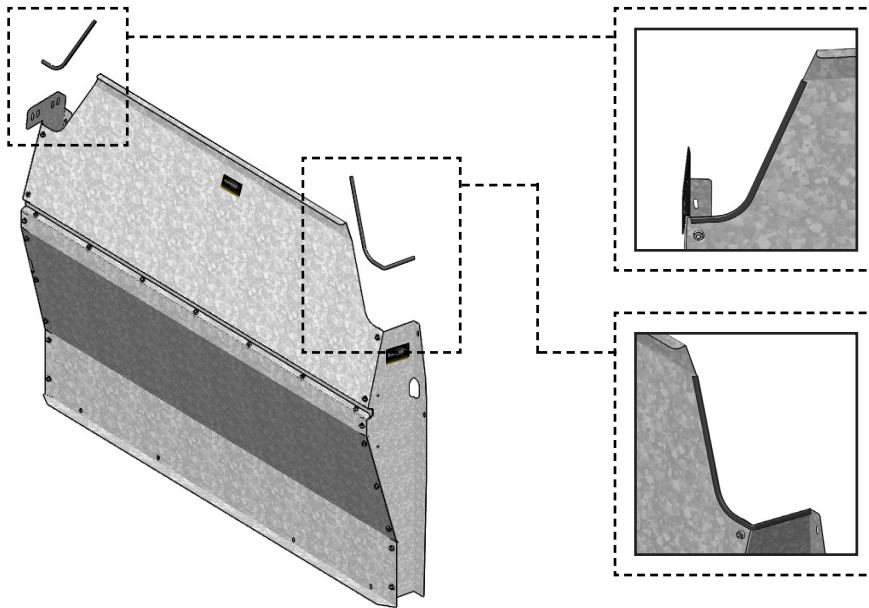
- Cordless Impact
- 1/2" Socket

HARDWARE USED

16x

- | | |
|---|-------------------------------|
|  | #90-200 Hex Bolt 5/16" x 1/2" |
|  | #98-116 Flat Washer |
|  | #94-116 Serrated Nut |

1.2.3 Attach the edge trims on these locations.



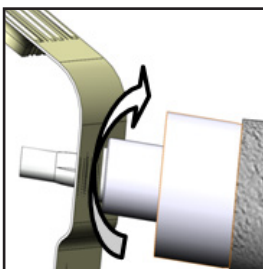
- TOOLS**
- ☐ Mallet
 - ☐ Cutter

PHASE 2 – INSTALLATION

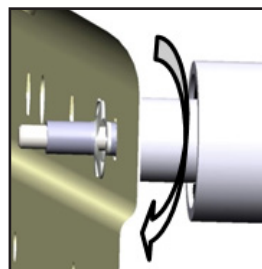
2.1 TIPS ON HOW TO ATTACH A PLUSNUT

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.



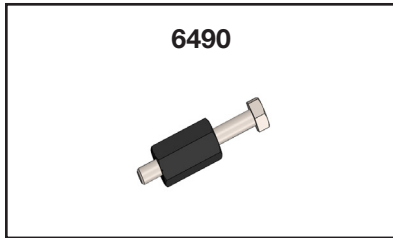
FORWARD





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.

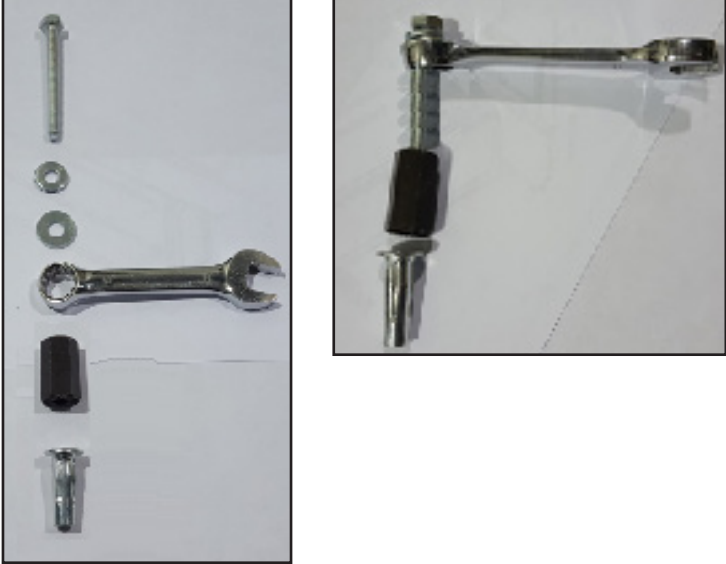


HARDWARE USED

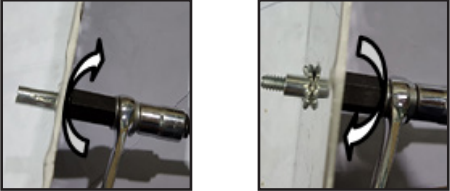
-  Flat washer 1/4"
-  Flat washer 1/4" BS x 3/4" OD

- 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.

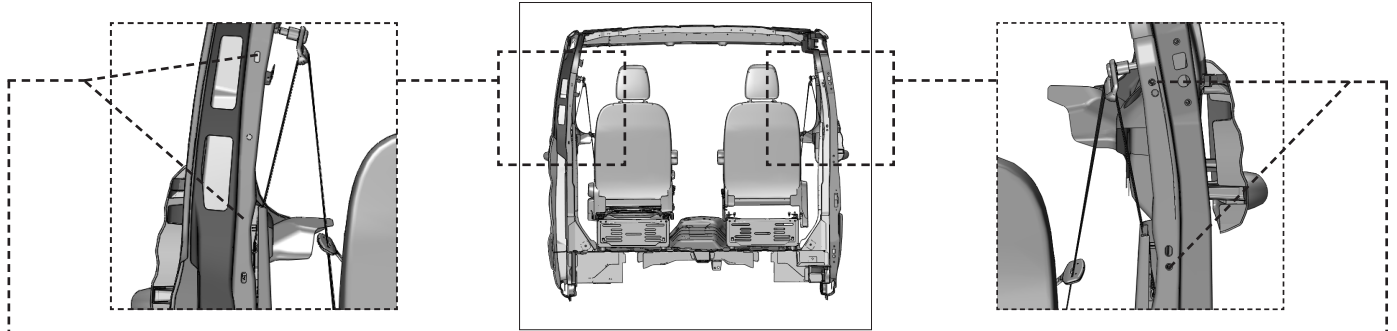


FORWARD **REVERSE**

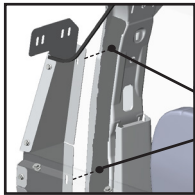
PHASE 2 – INSTALLATION

2.2 VEHICLE PREPARATION

2.2.1 Driver and passenger sides preparation.



Put the assembled partition in place and put two marks on the driver side plastic cover through the 1st and 2nd holes of the driver wing.



- TOOLS**
- Marker
- MARKS

Put the assembled partition on the side, then drill the two marks on the plastic cover using a 1" hole saw.



- TOOLS**
- 1" Hole Saw
 - Cordless Drill


Use a 3/8" drill to enlarge the top and bottom slot.



- TOOLS**
- Drill Collar Set at 1/2"
 - Cordless Drill
 - 3/8" Drill Bit
- ENLARGE THE FACTORY SLOT

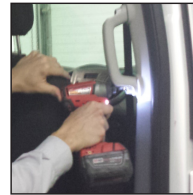
Attach plusnuts in the two holes.



- TOOLS**
- Plusnut Tool
- HARDWARE USED**
- 2x**
- 

94-130
Plusnut .250

Remove the factory handle in the van.



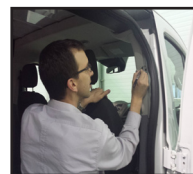
- TOOLS**
- Flat Screwdriver
 - Cordless Impact
 - 10mm Socket

After removing the handle, pull the rubber out, then remove the bracket by removing the two bolts.



- TOOLS**
- Cordless Impact
 - 10mm Socket

Put a mark on the plastic over the 2 threaded holes.



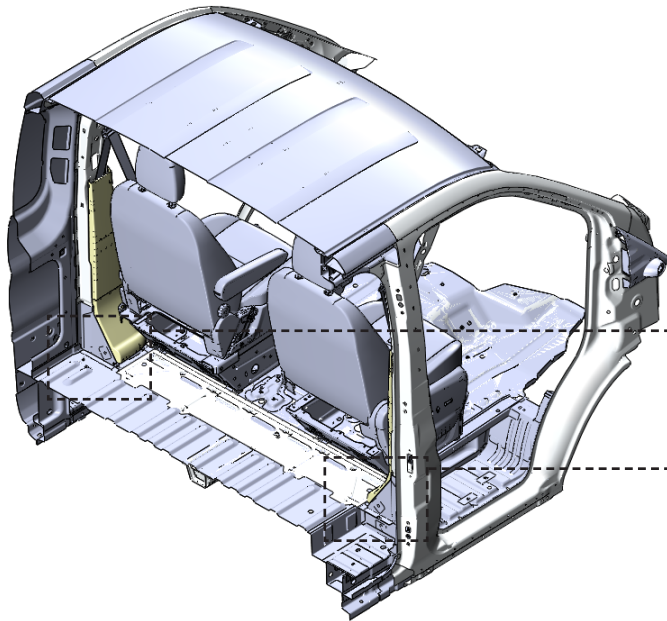
- TOOLS**
- Marker

Gently pull the plastic b-pillar from the metal. Use a 1" hole saw to drill through the plastic cover over these two factory threaded holes. (Use caution not to damage the threaded holes).



- TOOLS**
- 1" Hole Saw
 - Cordless Drill

2.2.2 Floor preparation.



Remove the two D-rings in the floor, for re-use.



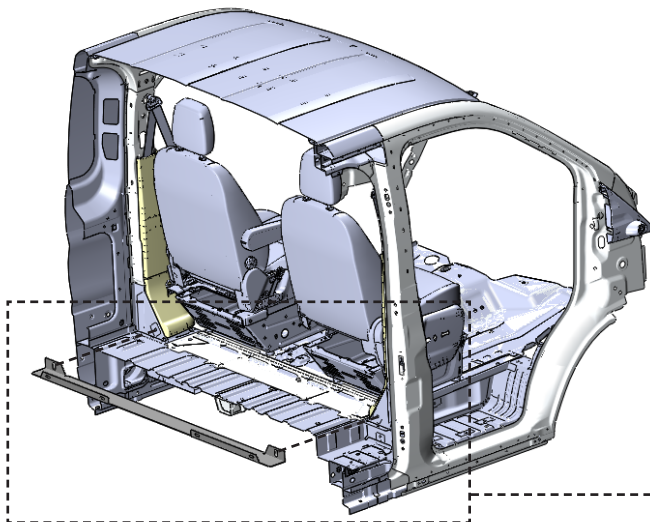
TOOLS

- Cordless Impact
- 13mm Socket

PHASE 2 – INSTALLATION

2.3 CONTOURED PARTITION INSTALLATION

2.3.1 Floor bracket installation.



Attach the floor bracket to the floor re-using the 2 D-ring bolts with the addition of the square washers, in between the D-rings and floor bracket.

Note: Use 90-010 if D-rings are not available.



TOOLS

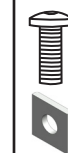
- Socket Wrench
- 13mm Socket
- T50 Torx Bit

HARDWARE USED

2x



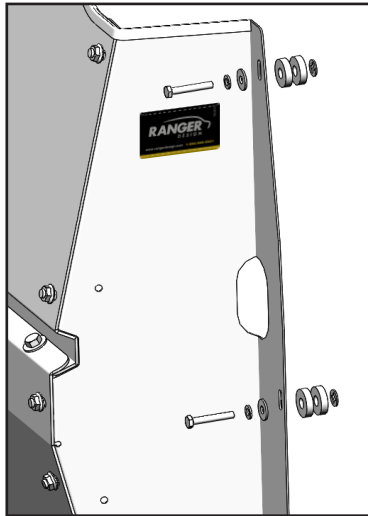
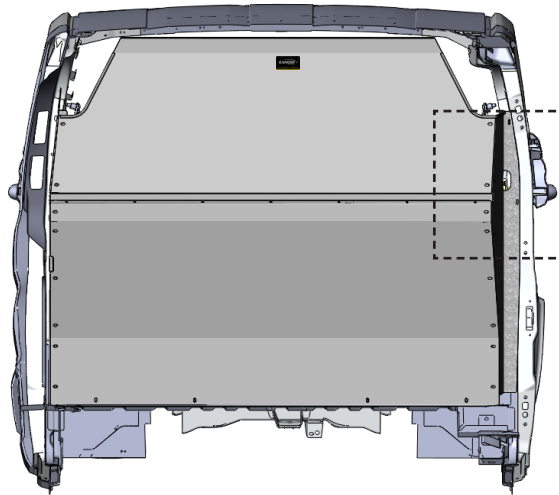
2x



#90-010 Screw, Torx 7/16" x 1"

#98-141 Square Flat Washer






2.3.2 Attach the passenger side wing to the van.



Put a bolt, lock washer, flat washer, 2 spacers and a retaining washer in the 1st and 3rd holes of the passenger side wing.

HARDWARE USED

2x

-  #90-836 Hex Bolt M6 x 40
-  #98-118 Lock Washer
-  #98-112 Flat Washer
-  #98-157 Spacers (2)
-  #98-158 Retaining washer

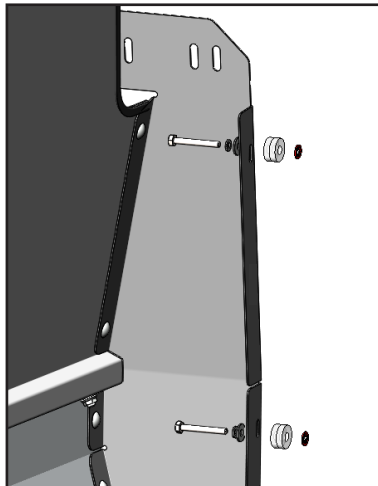
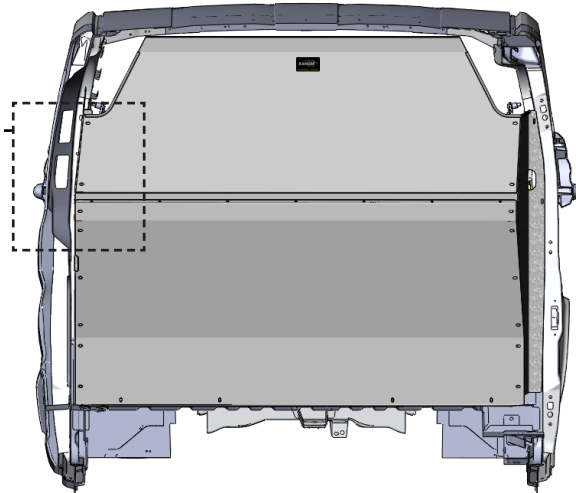


Attach the passenger side wing using the 2 metric bolts into the 2 threaded holes.

TOOLS

- Cordless Impact
- 10mm Socket






2.3.3 Attach the driver side wing to the van.

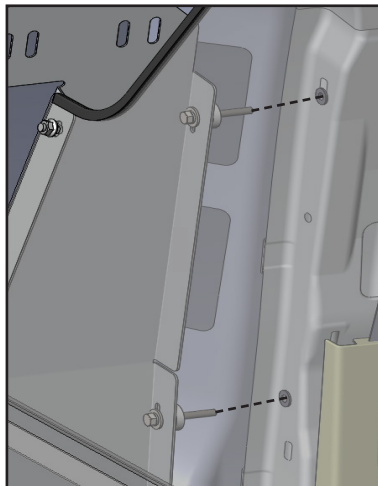


Put a bolt, lock washer, flat washer, 2 spacers and a retaining washer in the 1st and 2nd holes of the driver side wing.

HARDWARE USED

2x

-  #90-130 Hex Bolt 1/4" x 2"
-  #98-118 Lock Washer
-  #98-112 Flat Washer
-  #98-157 Spacers (2)
-  #98-158 Retaining Washer

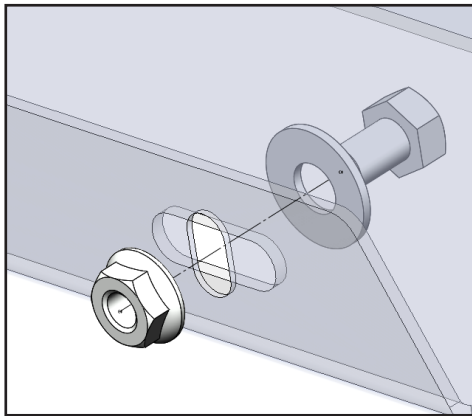
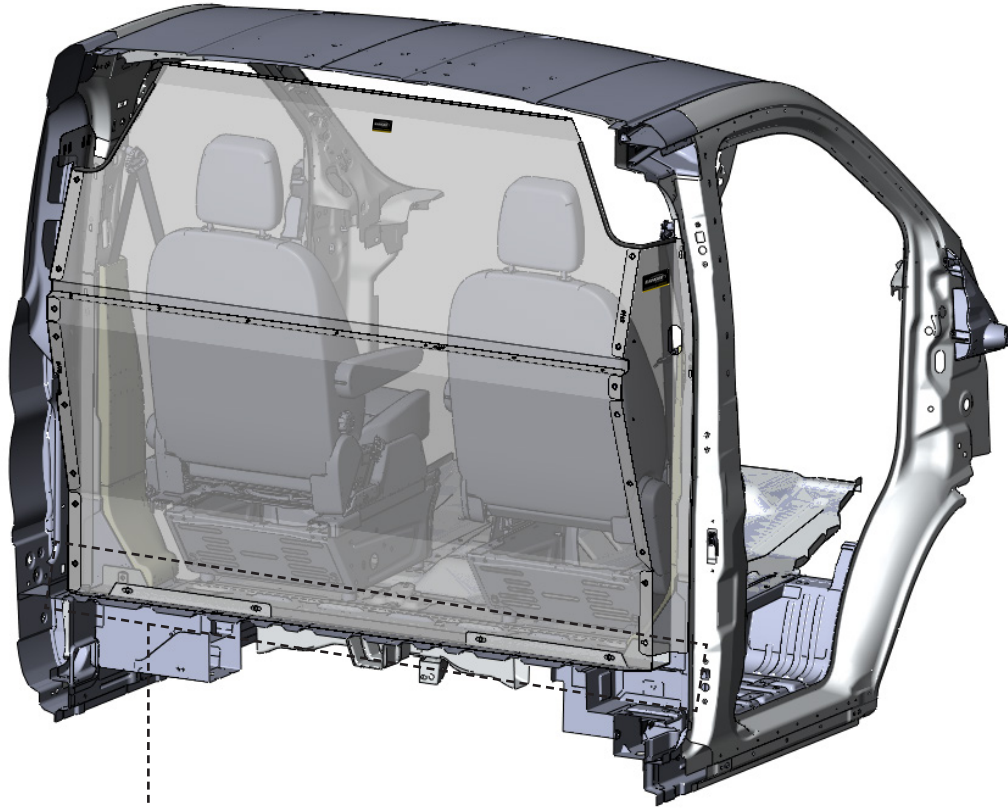


Attach the driver side wing using the hex bolts into the 2 plusnuts.

TOOLS

- Socket Wrench
- 7/16" Socket

2.3.4 Attach the lower panel to the floor bracket.






TOOLS

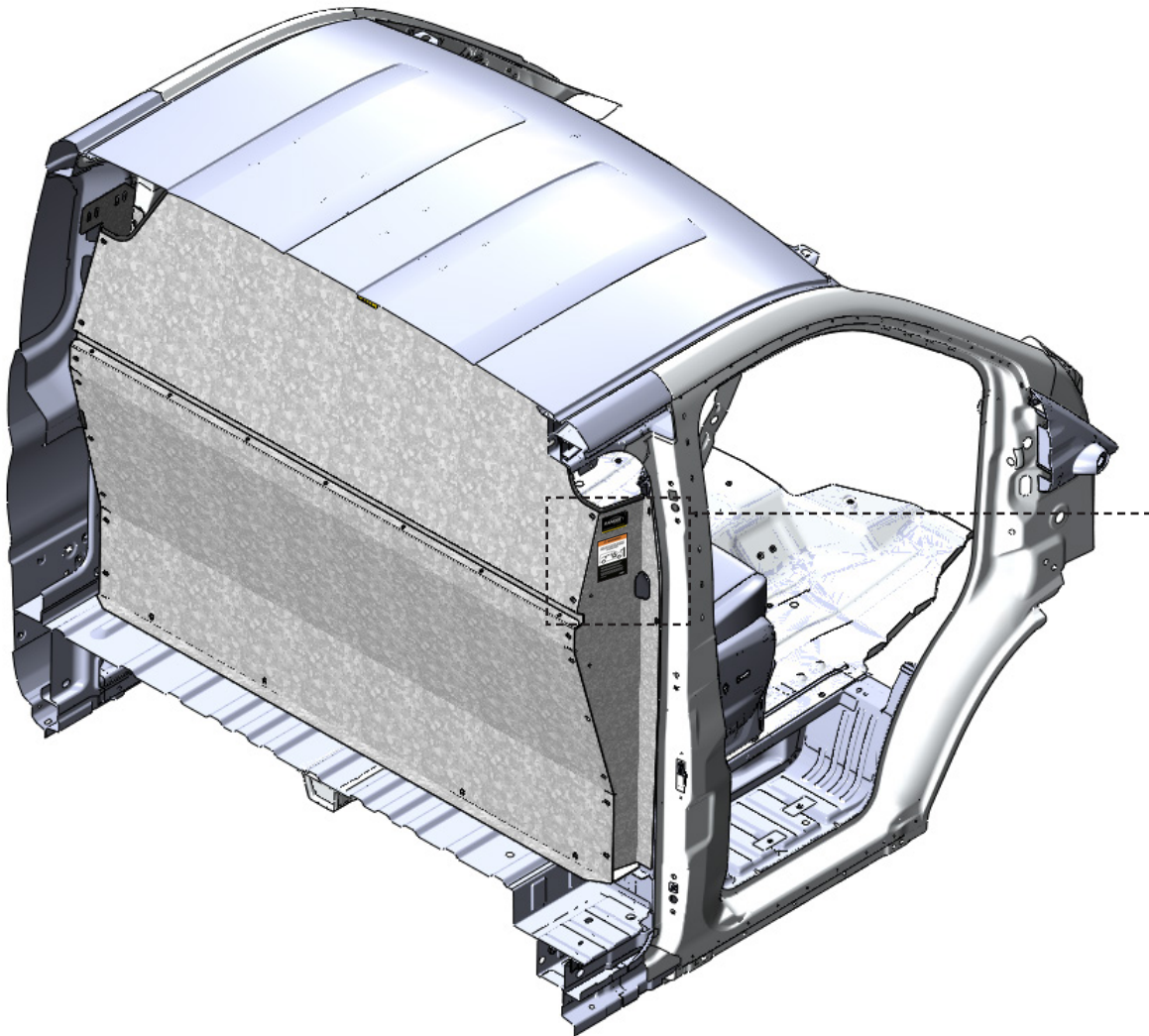
- Cordless Impact
- 1/2" Socket

HARDWARE USED

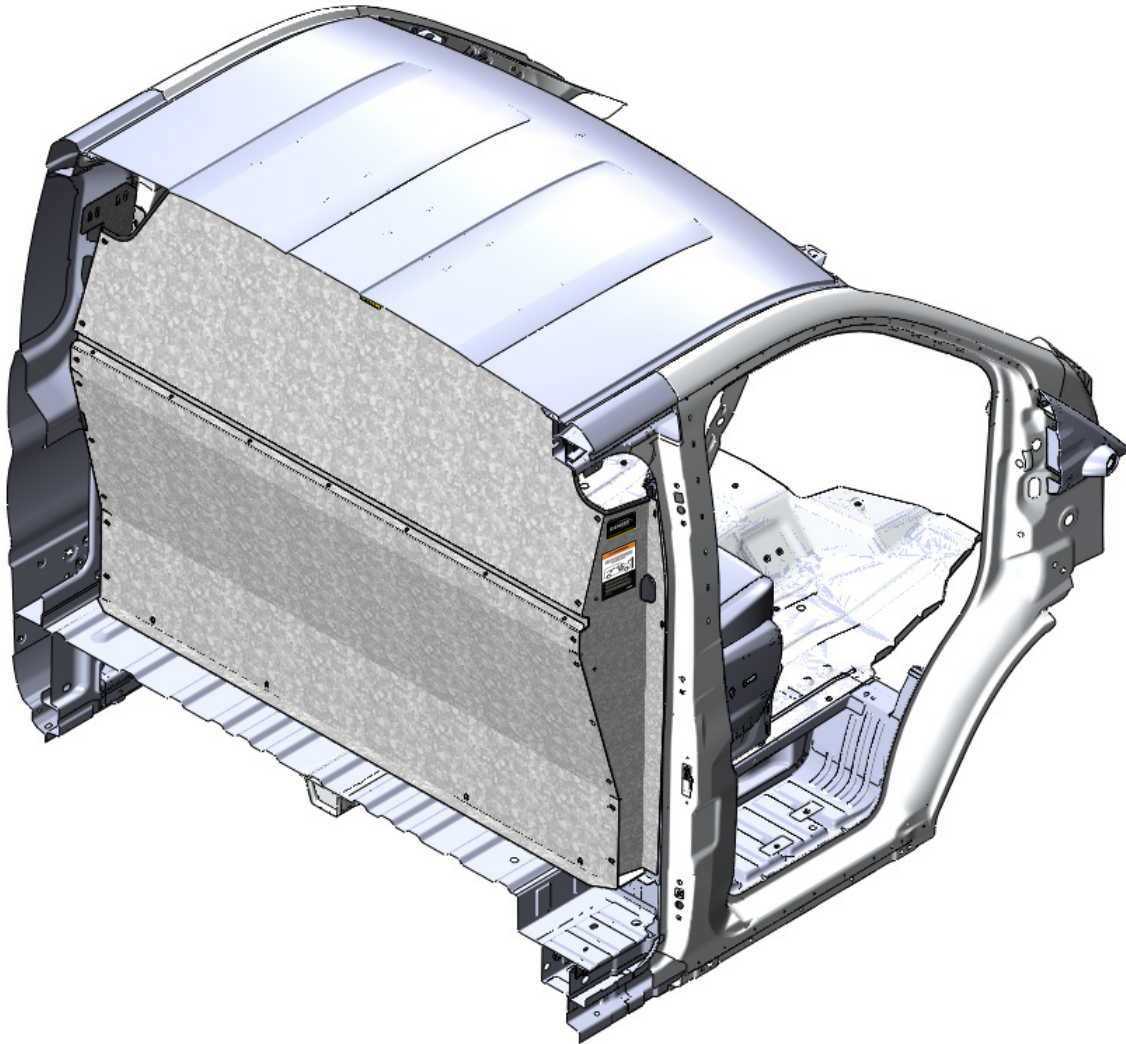
4x

- | | |
|---|-------------------------------|
|  | #90-200 Hex Bolt 5/16" x 1/2" |
|  | #98-116 Flat Washer |
|  | #94-116 Serrated Nut |

2.3.5 Apply the warning label on the passenger side wing.



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.”

