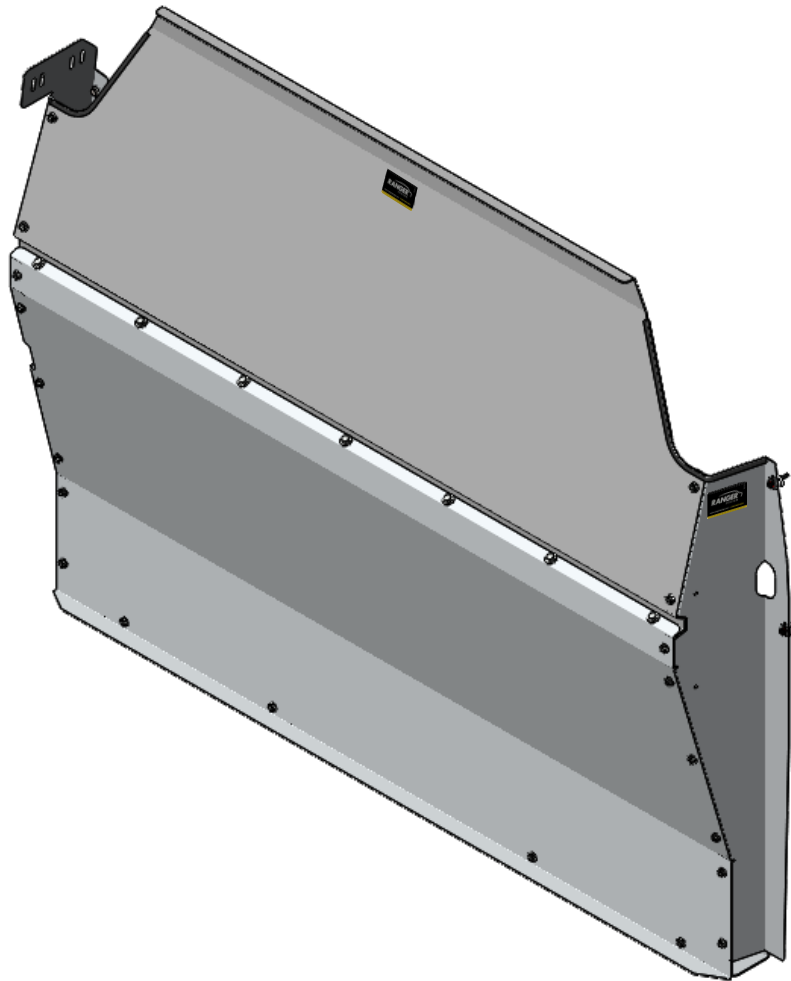


# INSTALLATION GUIDE



## 3010-FTL CONTOURED PARTITION

Transit Partition ( Aluminum )



Scan the QR for the latest Install-Guide.





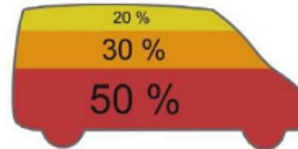
# BEFORE YOU BEGIN

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

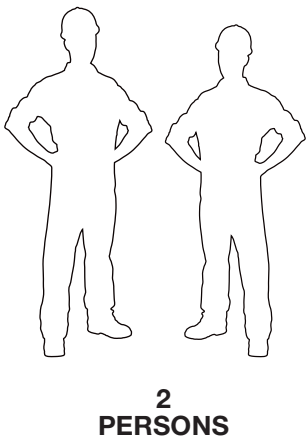
- ❑ 1.1 Setup..... 4
- ❑ 1.2 Partition assembly..... 6

## Phase 2 - Installation

- ❑ 2.1 Tips on how to attach a plusnut..... 7
- ❑ 2.2 Vehicle preparation..... 9
- ❑ 2.3 Contoured partition installation..... 10

# REQUIRED ITEMS

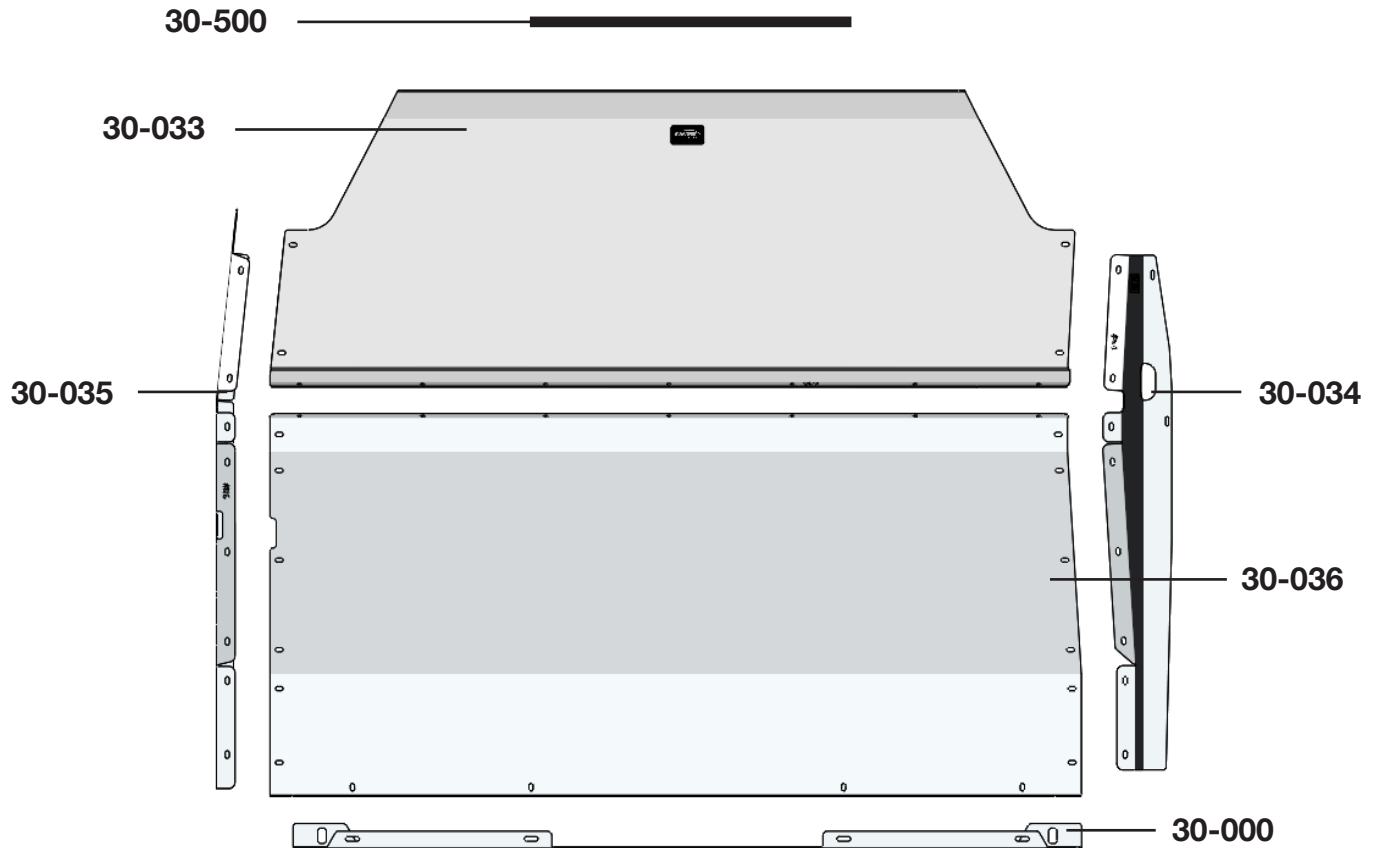
- ❑ Cordless Impact
- ❑ Cordless Drill
- ❑ Cutter
- ❑ Flat Screwdriver
- ❑ Mallet
- ❑ Marker
- ❑ Plusnut Tool
- ❑ Socket Wrench
- ❑ Tape Measure
- ❑ 3/8" Drill Bit
- ❑ 7/16" Socket
- ❑ 1/2" Socket
- ❑ 9/16" Wrench
- ❑ 1" Hole Saw
- ❑ 10mm Socket
- ❑ 13mm Socket
- ❑ T50 Torx Bit



# 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
30-033	Upper Panel w/o cutout	1
30-034	Passenger Side Wing	1
30-035	Driver Side Wing	1
30-036	Lower Panel	1
30-500	Edge Trim ( QTY in Inches )	38
79-932	Bilingual Warning Label	1
94-3011	Assembly Fastener Bag	1
96-3005	Installation Fastener Bag	1




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

#### Assembly Fastener Bag



7x		# 90-204	Hex Bolt 5/16"-18 x 3/4" GR-5 ZINC
20x		# 90-484	Carriage Bolt 5/16"-18 x 5/8" ZINC
27x		# 94-116	Serrated Nut 5/16"-18 ZINC
7x		# 98-116	Flat Washer 5/16", 7/8" OD ZINC

#### Hardware Assembly










7x

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

20x







	#90-484 Carriage Bolt 5/16" x 5/8"
	#94-116 Serrated Nut

#### Installation Fastener Bag






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

#### Hardware Assembly



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

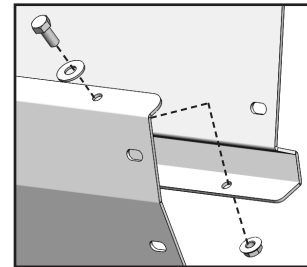
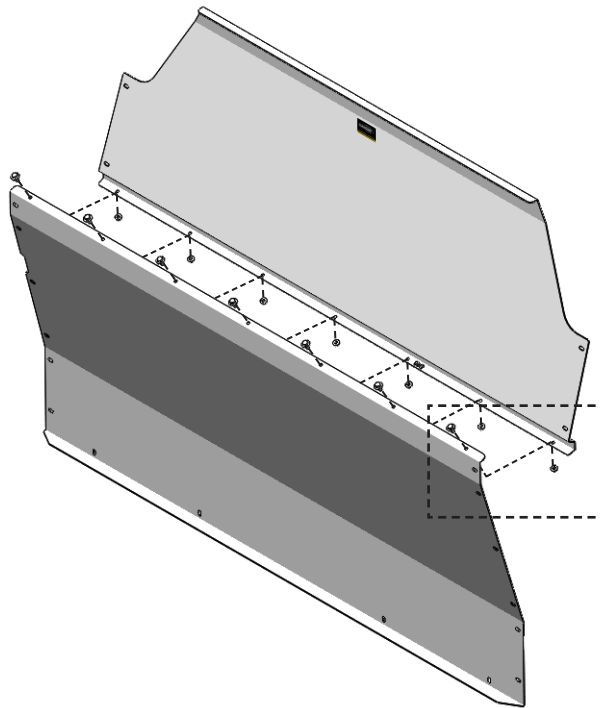
2x

	#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**



#90-204 Hex Bolt 5/16" × 3/4"

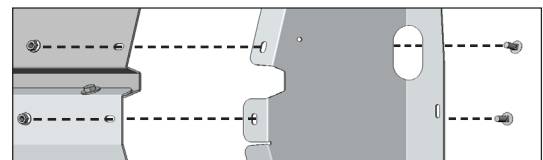
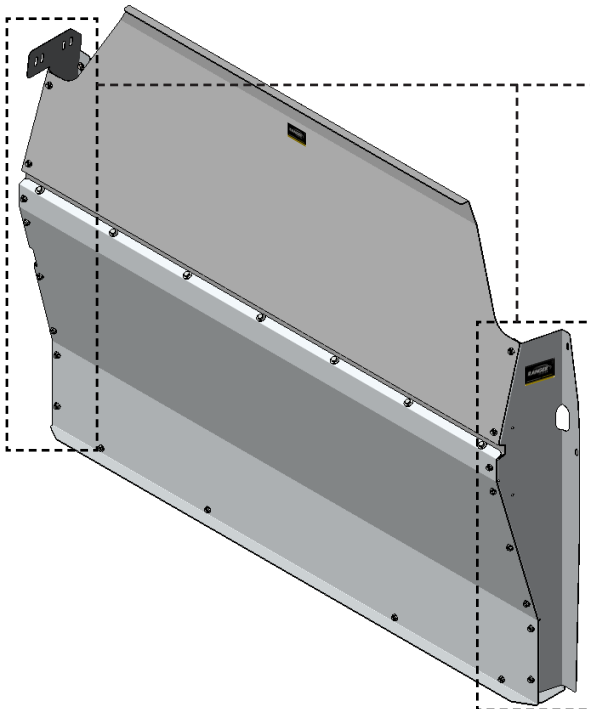


#98-116 Flat Washer



#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**

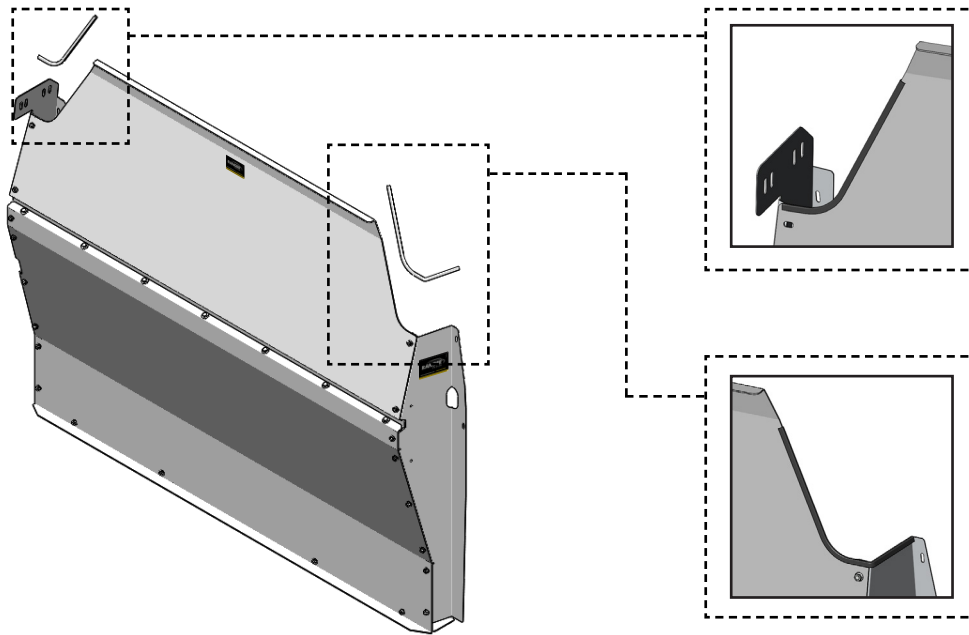


#90-484 Carriage Bolt 5/16" × 5/8"



#94-116 Serrated Nut

**1.2.3** Attach the edge trims on these locations.



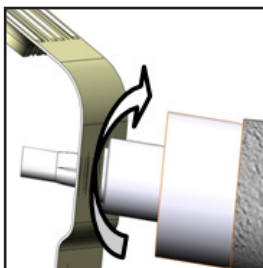
**TOOLS**  
■ Mallet  
■ Cutter

## PHASE 2 – INSTALLATION

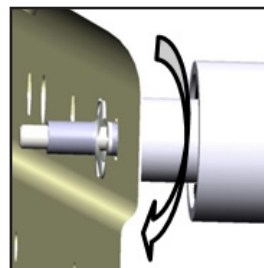
### 2.1 TIPS ON HOW TO ATTACH A PLUSNUT

**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.



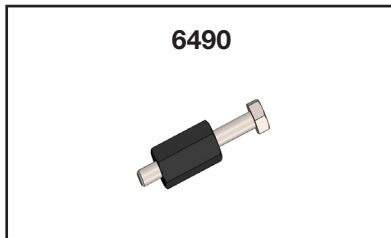
**FORWARD**





**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 × 3/4" OD

#### TOOLS

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

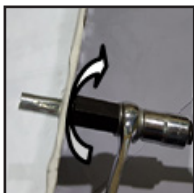
#### TIPS STEP 1:

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**



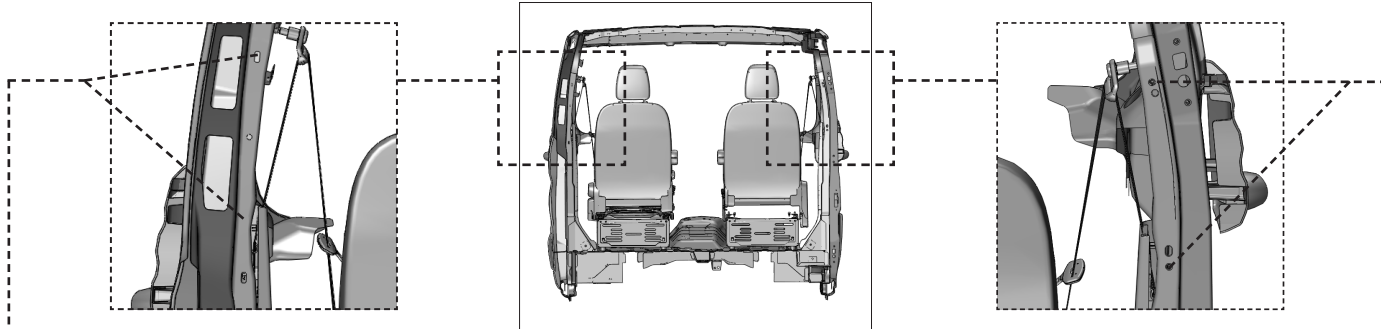
**REVERSE**



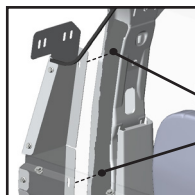
# PHASE 2 – INSTALLATION

## 2.2 VEHICLE PREPARATION

### 2.2.1 Driver and passenger sides preparation.



Put the assembled partition in place and put 2 marks on the driver side plastic cover through the 1st and 3rd 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 hole and drill a second hole through the second mark.



#### TOOLS

- ☐ Drill Collar Set at 1/2"
- ☐ Cordless Drill
- ☐ 3/8" Drill Bit

ENLARGE THE FACTORY HOLE

DRILL A HOLE IN THE MIDDLE OF THE SLOT OF THE PLASTIC

Attach plusnuts in the two holes.



#### TOOLS

- ☐ Plusnut Tool

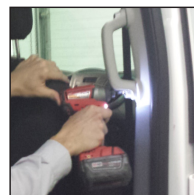
#### HARDWARE USED

2x



# 94-130  
Plusnut .250

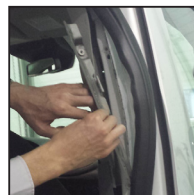
Remove the factory handle in the van.



#### TOOLS

- ☐ Flat Screwdriver
- ☐ Cordless Impact
- ☐ 10mm Socket

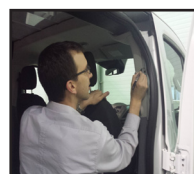
After removing the handle, pull the rubber out, then remove the bracket by removing the two bolts.



#### TOOLS

- ☐ Cordless Impact
- ☐ 10mm Socket

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



#### TOOLS

- ☐ Marker

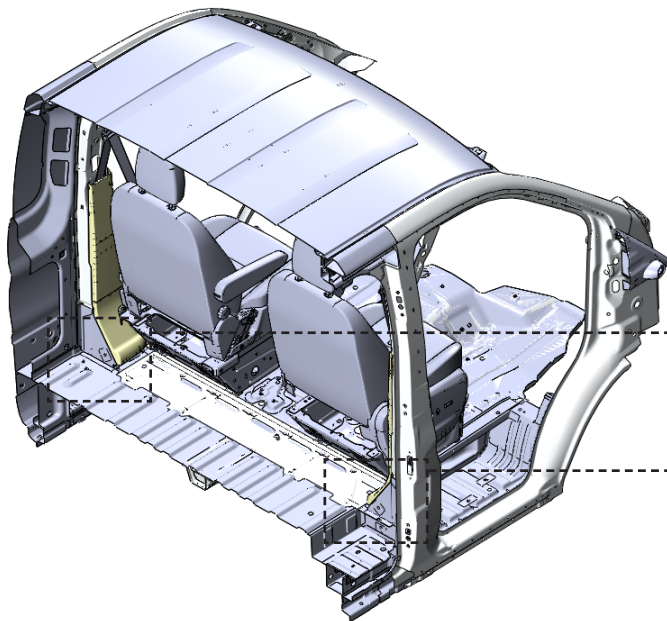
Gently pull the plastic b-pillar from the metal. Use a 1" hole saw to drill through the plastic cover over these two factory threaded holes. (Use caution not to damage the threaded holes).



#### TOOLS

- ☐ 1" Hole Saw
- ☐ Cordless Drill

### 2.2.2 Floor preparation.



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



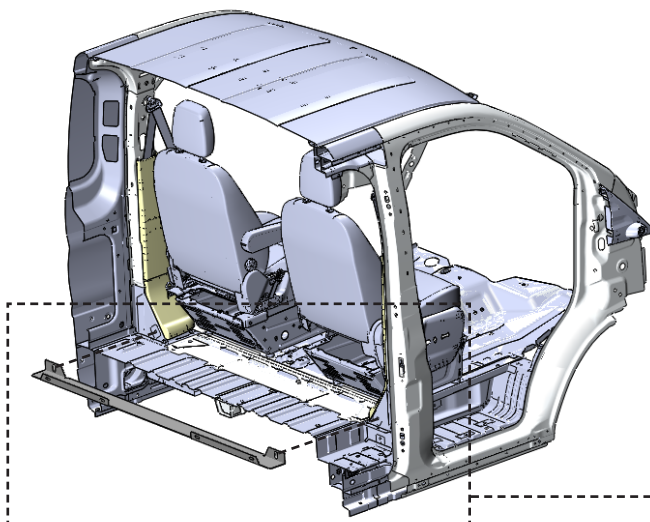
#### TOOLS

- Cordless Impact
- 13mm Socket

## PHASE 2 – INSTALLATION

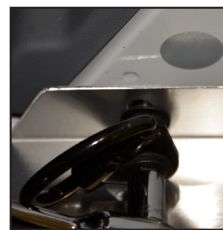
### 2.3 CONTOURED PARTITION INSTALLATION

#### 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

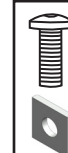
- Socket Wrench
- 13mm Socket
- T50 Torx Bit

#### HARDWARE USED

2x



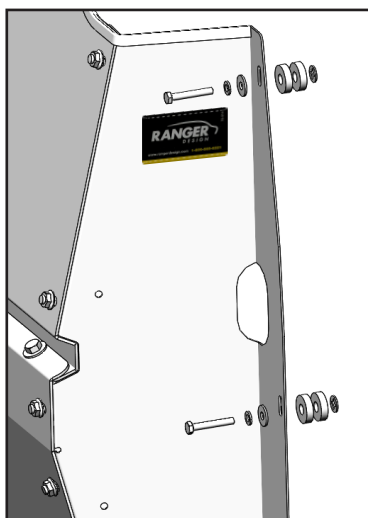
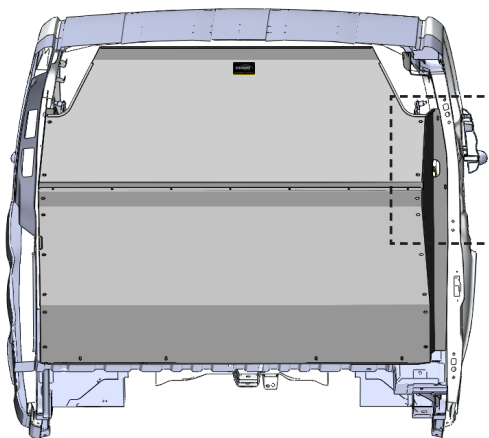
2x



#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



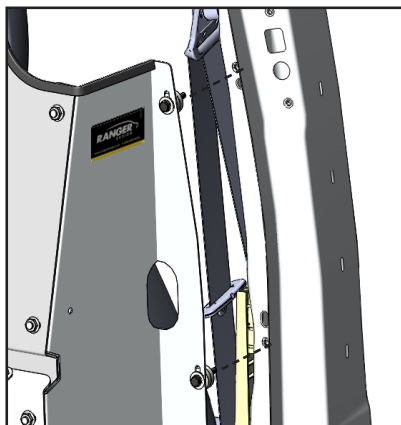
#98-112 Flat Washer



#98-157 Spacers ( 2 )



#98-158 Retaining washer

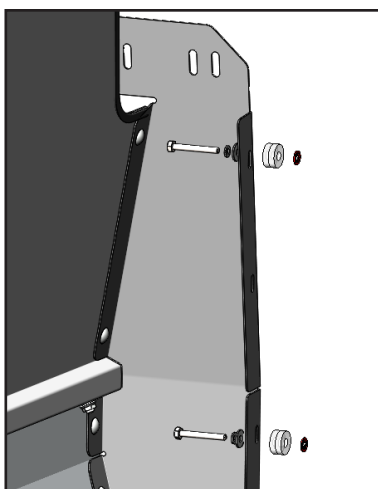
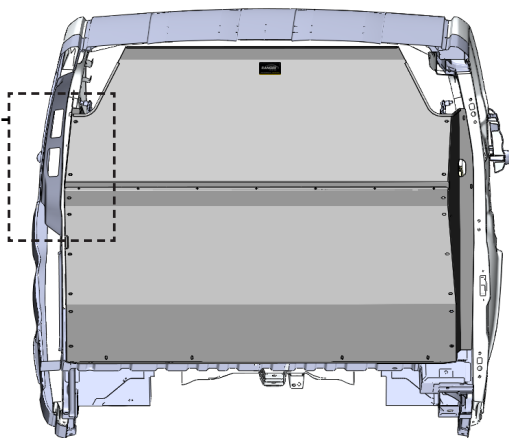


Attach the passenger side wing using the 2 metric bolts into the 2 threaded holes.

#### 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 3rd holes of the driver side wing.

#### HARDWARE USED

2x



#90-130 Hex Bolt 1/4" x 2"



#98-118 Lock Washer



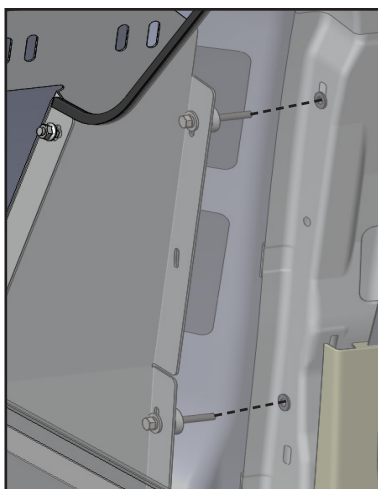
#98-112 Flat Washer



#98-157 Spacers ( 2 )



#98-158 Retaining Washer

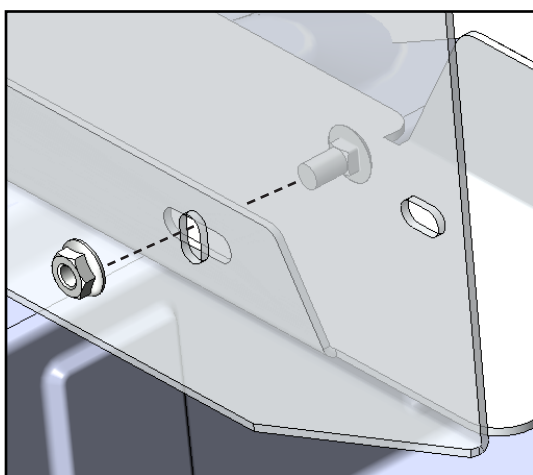
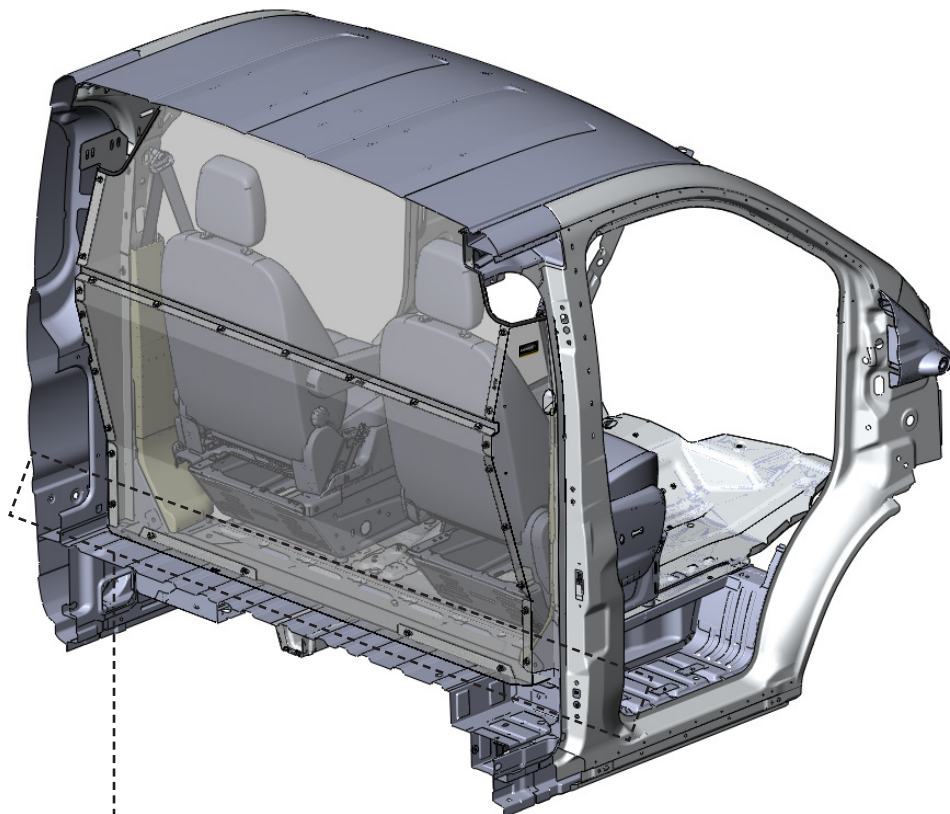


Attach the driver side wing using the hex bolts into the 2 plusnuts.

#### 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



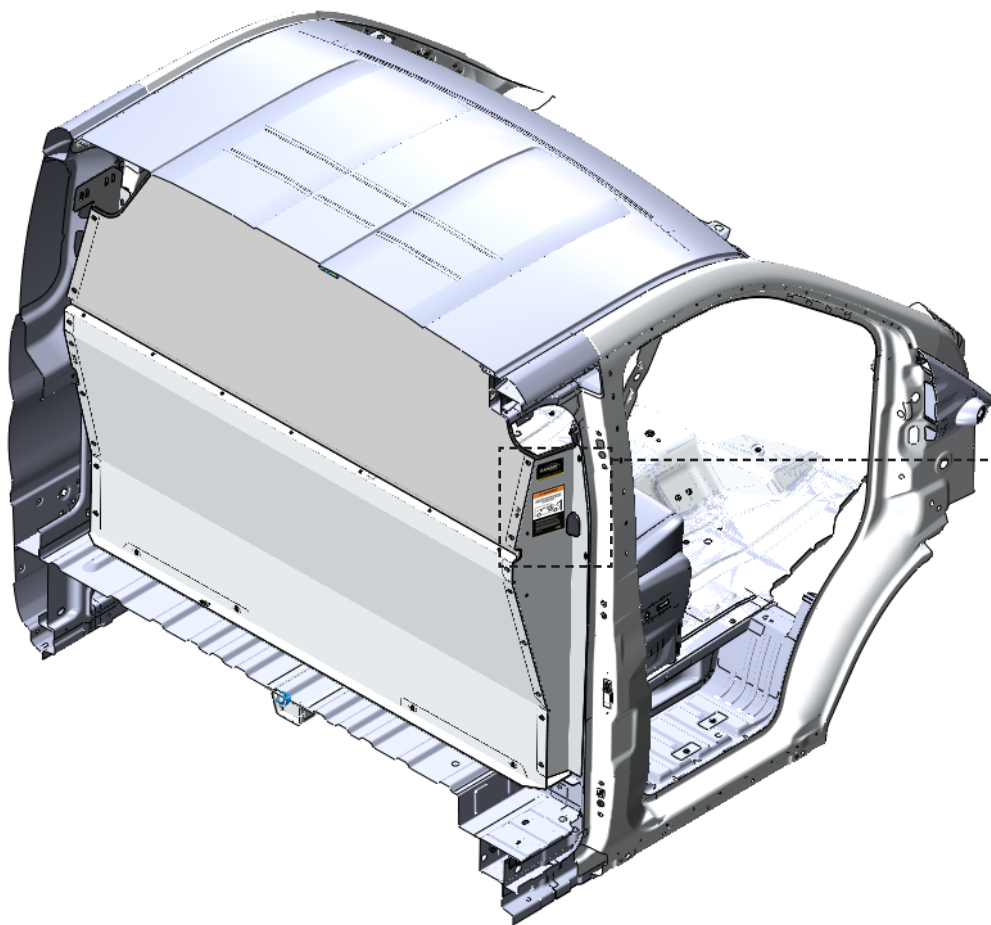
#90-484 Carriage Bolt 5/16" x 5/8"



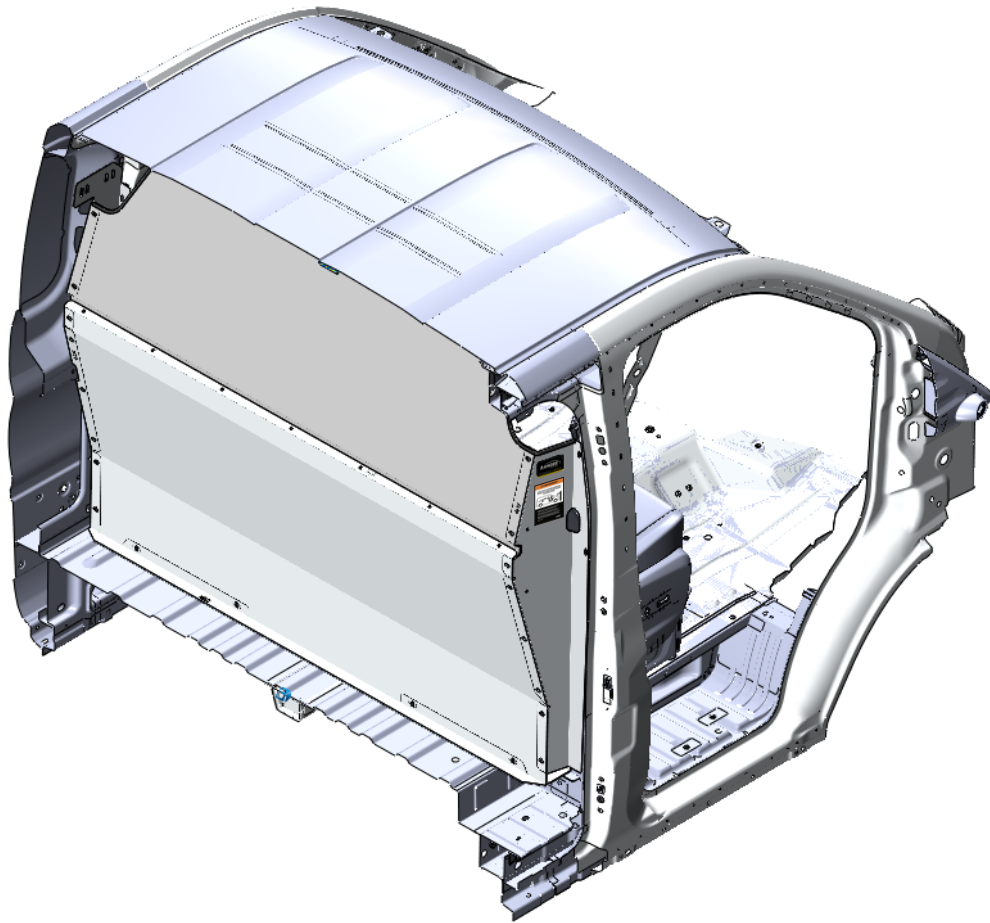
#94-116 Serrated Nut



**2.3.5** Apply the warning label on the passenger side wing.



**NOTE:** English warning label is already attached on the passenger side panel.



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

**Thank you for doing business with us.”**

