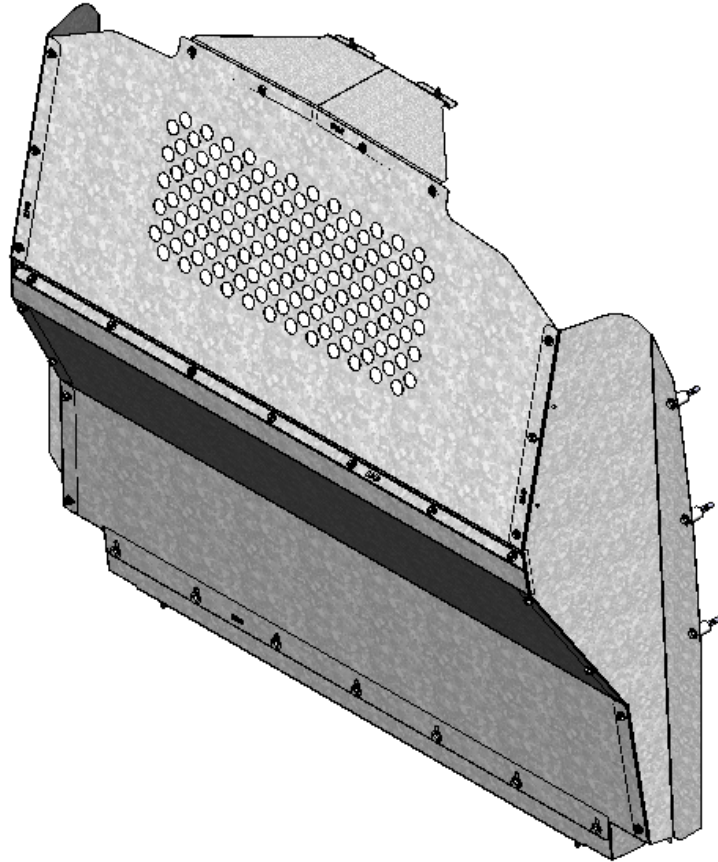


# INSTALLATION GUIDE



## C10-MM CONTOURED PARTITION

Metris Partition ( Perforated Window, Steel )



Scan the QR for the latest Install-Guide.





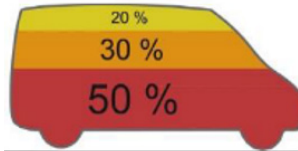
# BEFORE YOU BEGIN

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

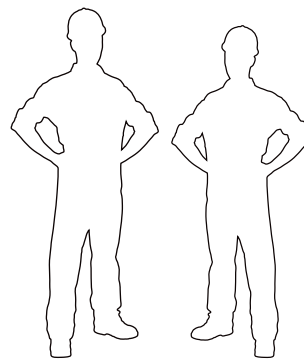
<input type="checkbox"/> 1.1 Setup.....	4
<input type="checkbox"/> 1.2 Partition assembly.....	6

## Phase 2 - Installation

<input type="checkbox"/> 2.1 Tips on how to attach a plusnut.....	8
<input type="checkbox"/> 2.2 Vehicle preparation.....	9
<input type="checkbox"/> 2.3 Contoured partition installation.....	11

# REQUIRED ITEMS

- Cordless Impact
- Cordless Drill
- Cutter
- Mallet
- Marker
- Plusnut Tool
- Socket Wrench
- Step Drill
- 3/8" Drill Bit
- 7/16" Socket
- 1/2" Socket
- 9/16" Wrench
- 1" Hole Saw
- 10mm Socket
- 13mm Socket
- T40 Torque Bit

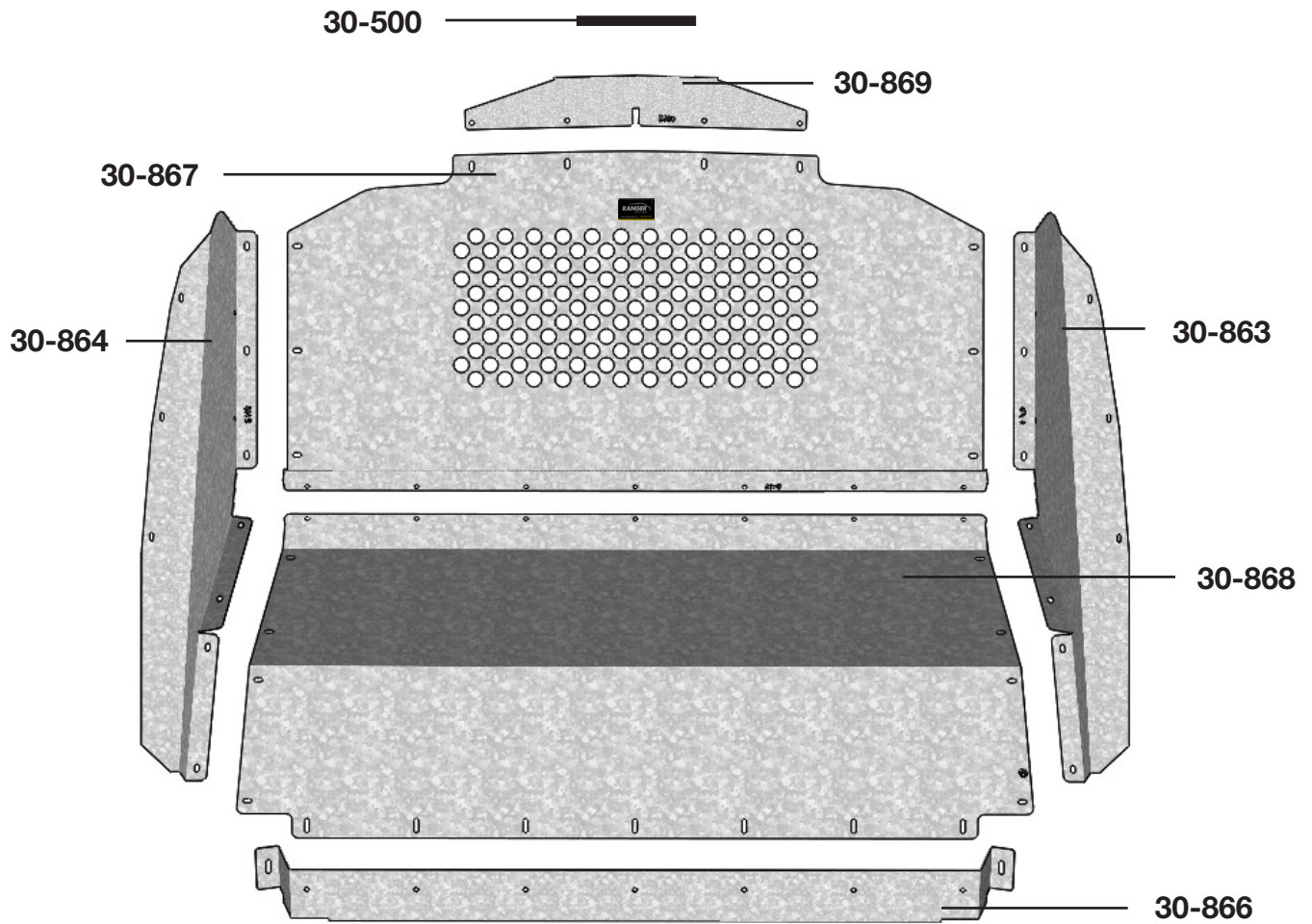


**2**  
**PERSONS**

# 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.
30-500	Edge Trim ( QTY in Inches )	8
30-863	Passenger Side Wing	1
30-864	Driver Side Wing	1
30-866	Floor Bracket	1
30-867	Upper Perforated Panel	1
30-868	Lower Panel	1
30-869	Butterfly Shape Bracket	1
79-932	Warning label - Bilingual, partition	1
94-3004	Assembly Fastener Bag	1
96-3004	Installation Fastener Bag	1

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

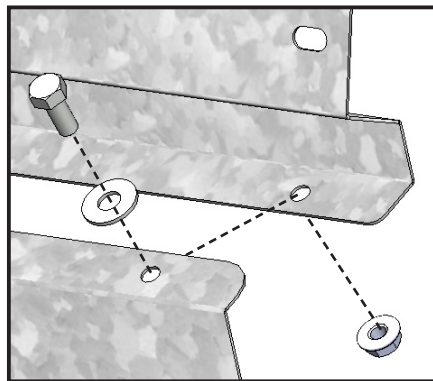
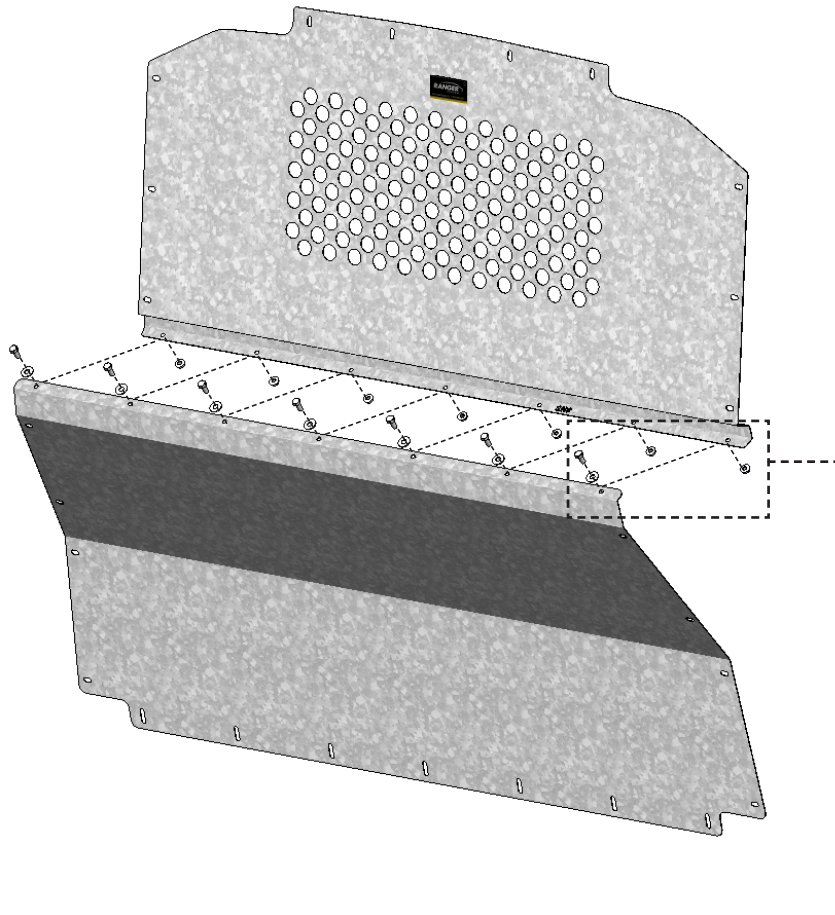
Assembly Fastener Bag			→	Hardware Assembly		
4x		# 90-108 Hex Bolt 1/4"-20 x 5/8" GR-5 ZINC		4x		#90-108 Hex Bolt 1/4" x 5/8"
14x		# 90-200 Hex Bolt 5/16"-18 x 1/2" GR-5 ZINC				#98-112 Flat Washer
						#94-112 Serrated Nut
14x		# 90-204 Hex Bolt 5/16"-18 x 3/4" GR-5 ZINC		14x		#90-200 Hex Bolt 5/16" x 1/2"
4x		# 94-112 Serrated Nut 1/4"-20 ZINC				#98-116 Flat Washer
						#94-116 Serrated Nut
28x		# 94-116 Serrated Nut 5/16"-18 ZINC		14x		#90-204 Hex Bolt 5/16" x 3/4"
4x		# 98-112 Flat Washer 1/4", 3/4" OD ZINC			#98-116 Flat Washer	
28x		# 98-116 Flat Washer 5/16", 7/8" OD ZINC			#94-116 Serrated Nut	

Installation Fastener Bag			→	Hardware Assembly		
6x		# 90-130 Hex Bolt 1/4"-20 x 2" GR-5 ZINC		6x		#90-130 Hex Bolt 1/4" x 2"
2x		# 90-668 Hex Bolt M8-1.25 x 40 CL 8.8 DIN 933 BLACK OXIDE				#98-118 Lock Washer
2x		# 90-824 Hex Bolt M6-1.00 x 20 CL 12.9 DIN 933 BLACK OXIDE				#98-112 Flat Washer
6x		# 94-130 Plusnut .250				#99-102 Spacer
10x		# 98-112 Flat Washer 1/4", 3/4" OD ZINC				#98-158 Retaining Washer
						#94-130 Plusnut .250
2x		# 98-116 Flat Washer 5/16", 7/8" OD ZINC	2x		#90-668 M8 x 40	
10x		# 98-118 Lock Washer Regular 1/4" ZINC			#98-122 Lock Washer	
2x		# 98-122 Lock Washer Regular 5/16" ZINC	2x		#98-116 Flat Washer	
6x		# 98-158 Retaining Washer M16 (1/4") NYLON			#90-824 M6 x 20	
6x		# 99-102 Spacer 0.323" ID x 0.750" OD x 1.125" NYLON			#98-118 Lock Washer	
					#98-112 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

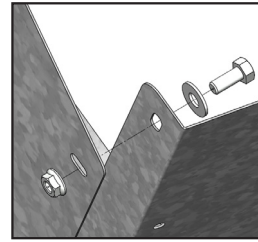
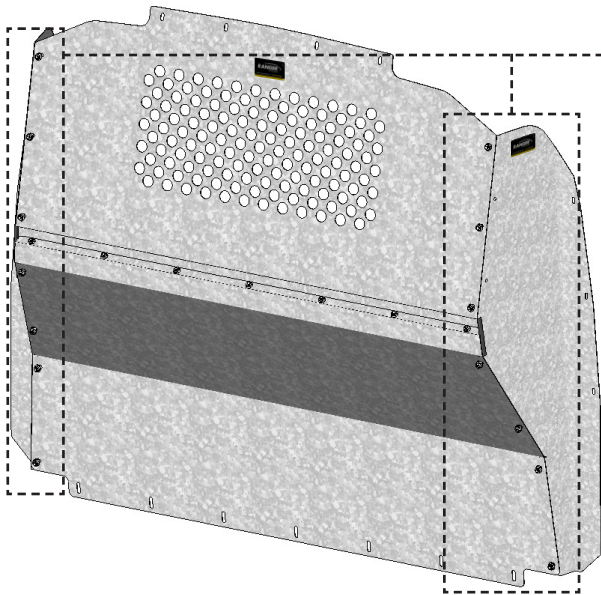
- Cordless Impact
- 1/2" Socket

### 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**

**14x**



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

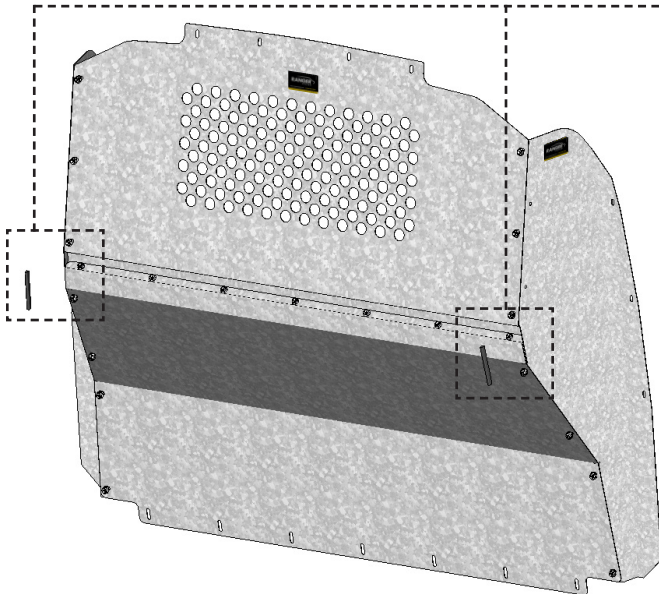


#98-116 Flat Washer



#94-116 Serrated Nut

1.2.3 Attach the edge trims on the wings.



**TOOLS**

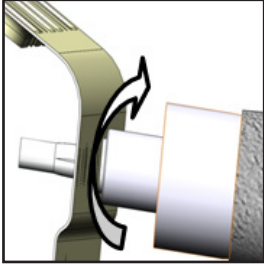
- Mallet
- Cutter

# PHASE 2 – INSTALLATION

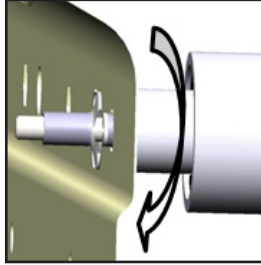
## 2.1 TIPS ON HOW TO ATTACH A PLUSNUT

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.



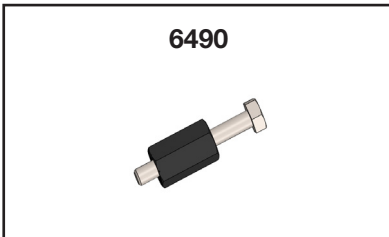
**FORWARD**



**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.



**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

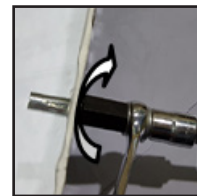
### TIPS STEP 1:

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**

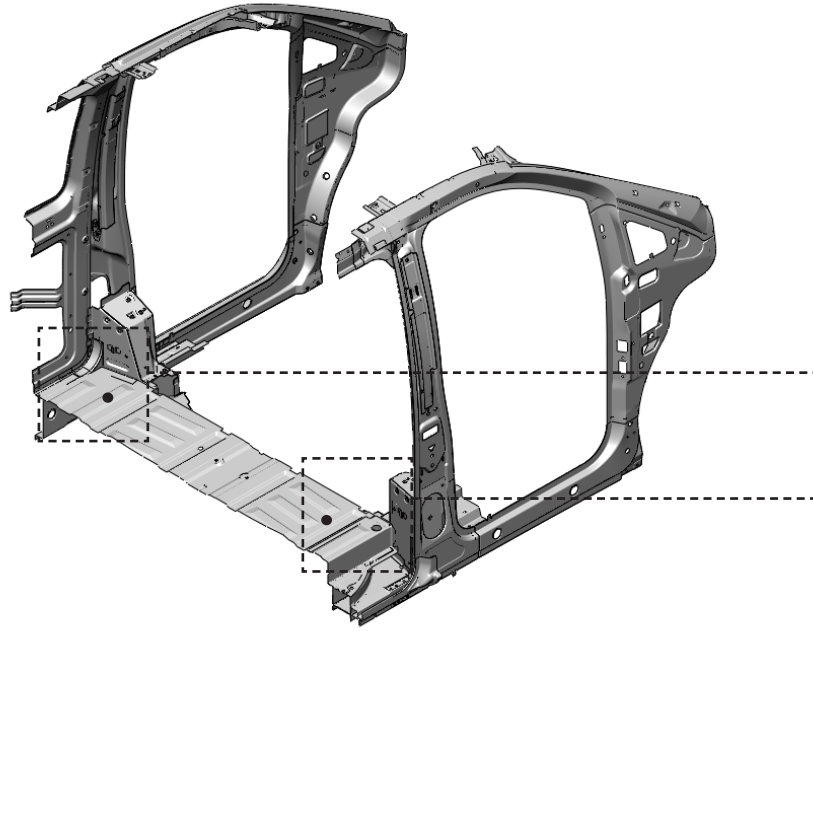


**REVERSE**

# PHASE 2 – INSTALLATION

## 2.2 VEHICLE PREPARATION

### 2.2.1 Floor preparation.



Remove the 2 D-rings and the 2 torque bolts on the floor.

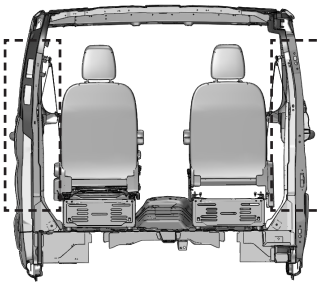
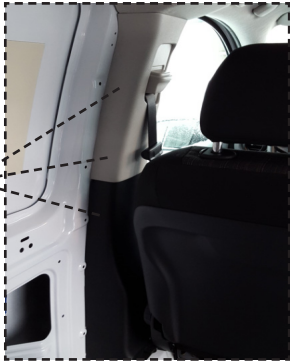
Remove

#### TOOLS

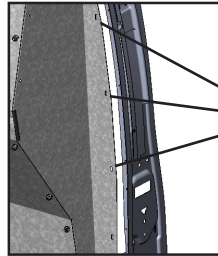
- Cordless Impact
- T40 Torque Bit

### 2.2.2 Driver and passenger sides preparation.

**NOTE:** Be careful of the wire or any parts that hide at the back of the B-pillar.



Put the assembled partition in place and put 6 marks on the plastic covers through the 3 holes of both sides of the assembled partition.



- TOOLS**
- Marker
- MARKS

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



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

Use a 3/8" drill or step drill to enlarge and to make holes in the van.



- TOOLS**
- Cordless Drill
  - 3/8" Drill Bit or Step Drill

**NOTE:** Use the assembled partition as a template when making the holes to have accurate locations.

Attach plusnuts in the 6 holes.



- TOOLS**
- Plusnut Tool

**HARDWARE USED**

**6x**

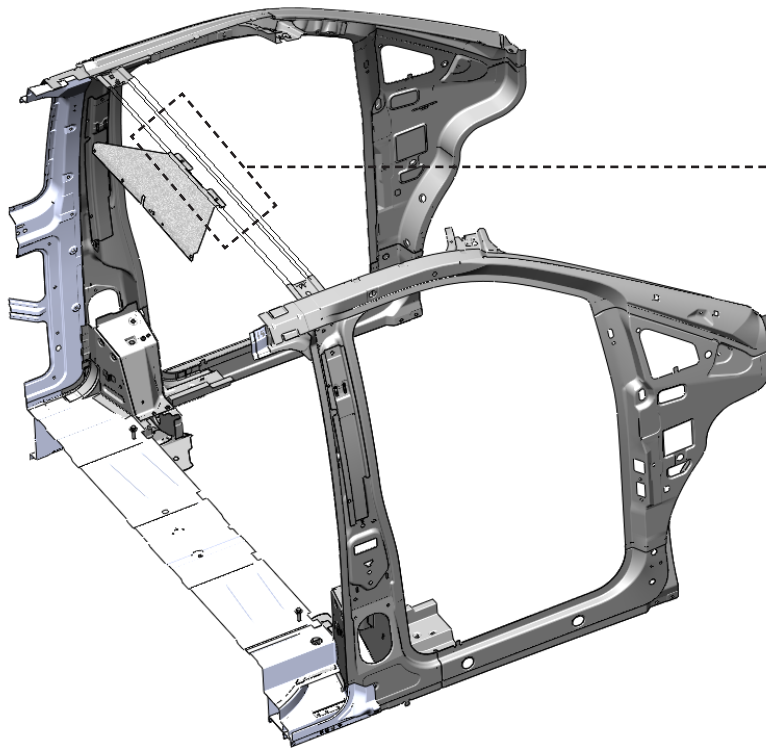


# 94-130  
Plusnut .250

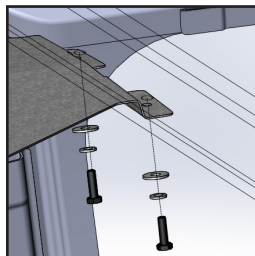
# PHASE 2 – INSTALLATION

## 2.3 CONTOURED PARTITION INSTALLATION

### 2.3.1 Butterfly shape bracket installation.



Pull the headliner down, then attach the ceiling bracket using the 2 threaded holes.



#### TOOLS

- Socket Wrench
- 10mm Socket

#### HARDWARE USED

2x



#90-824 M6 x 20

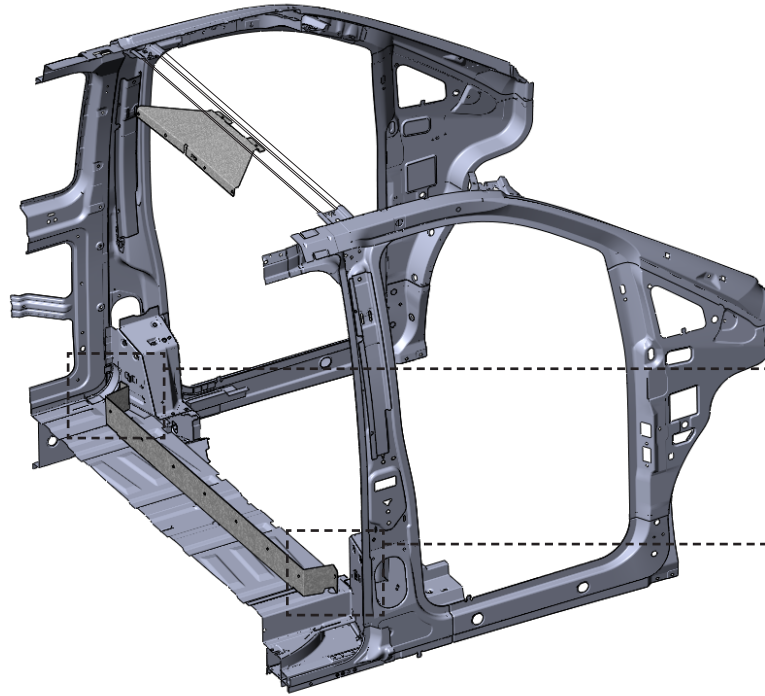


#98-118 Lock Washer



#98-112 Flat Washer

### 2.3.2 Floor bracket installation.



Attach both ends of the floor bracket on van using the D-ring bolts.

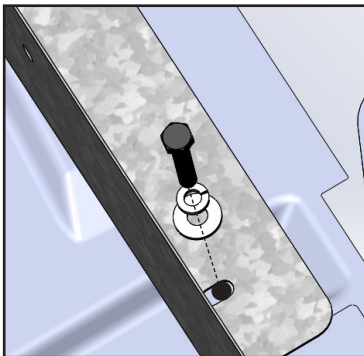
#### TOOLS

- Cordless Impact
- T40 Torque Bit

#### HARDWARE USED

**2x**

Use the D-ring Bolts



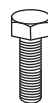
Bolt the floor bracket to the floor of the van.

#### TOOLS

- Cordless Impact
- 13mm Socket

#### HARDWARE USED

**2x**



#90-668 M8 × 40

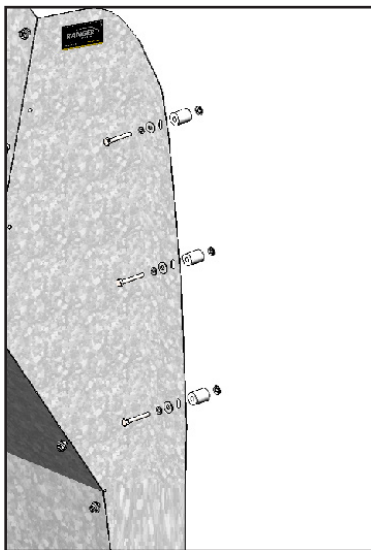
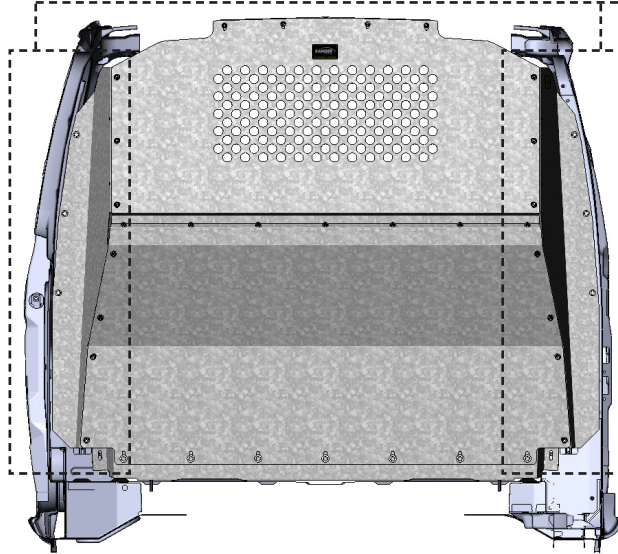


#98-122 Lock Washer



#98-116 Flat Washer

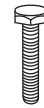
### 2.3.3 Attach both wings to the van.



Put a bolt, lock washer, flat washer, spacer and a retaining washer in the holes of both wings.

#### HARDWARE USED

6x



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



#98-118 Lock Washer



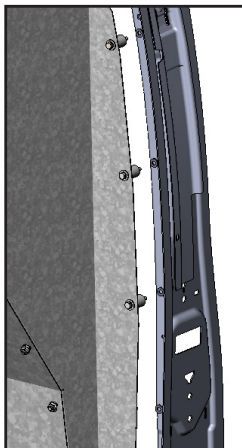
#98-112 Flat Washer



#99-102 Spacer



#98-158 Retaining Washer

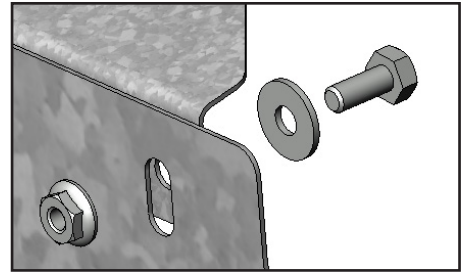
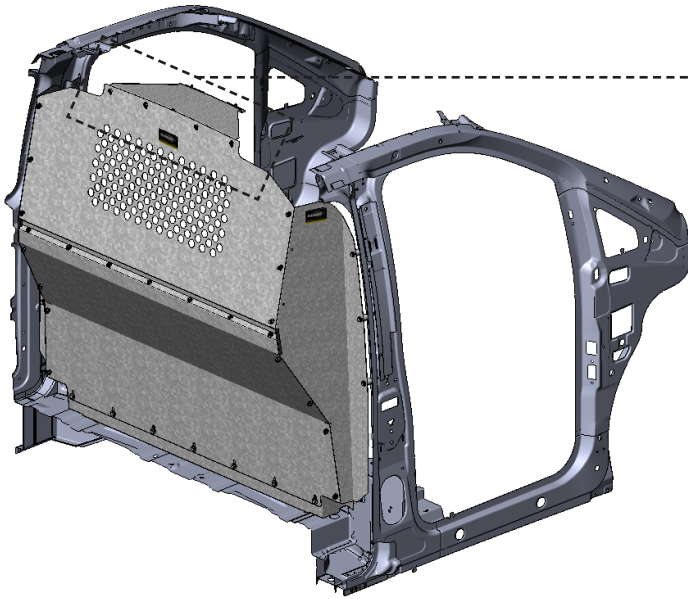


Attach both wings using the hex bolts into the plusnuts.

#### TOOLS

- Cordless Impact
- 7/16" Socket

**2.3.4** Attach the upper panel to the butterfly shape bracket.






**TOOLS**

- Cordless Impact
- 7/16" Socket

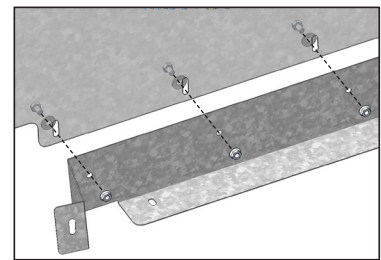
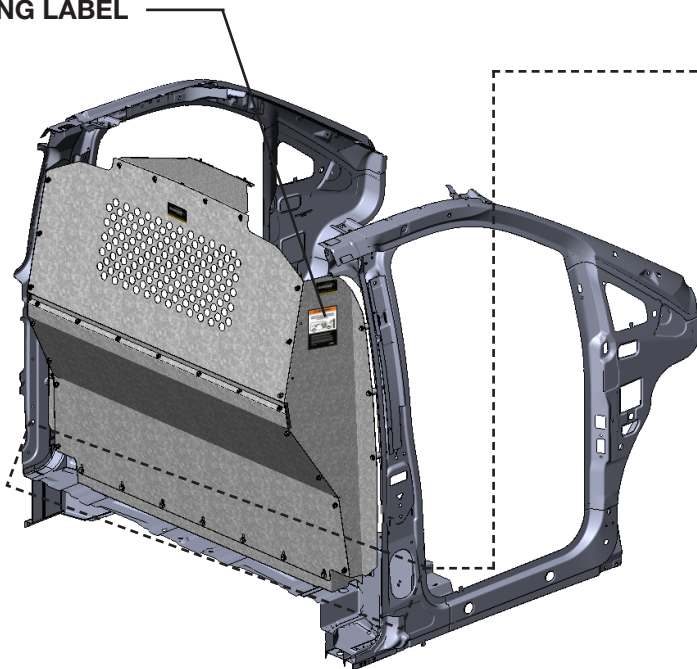
**HARDWARE USED**

**4x**

-  #90-108 Hex Bolt 1/4" x 5/8"
-  #98-112 Flat Washer
-  #94-112 Serrated Nut

**2.3.5** Attach the lower panel to the floor bracket, then attach the warning label.

**WARNING LABEL**






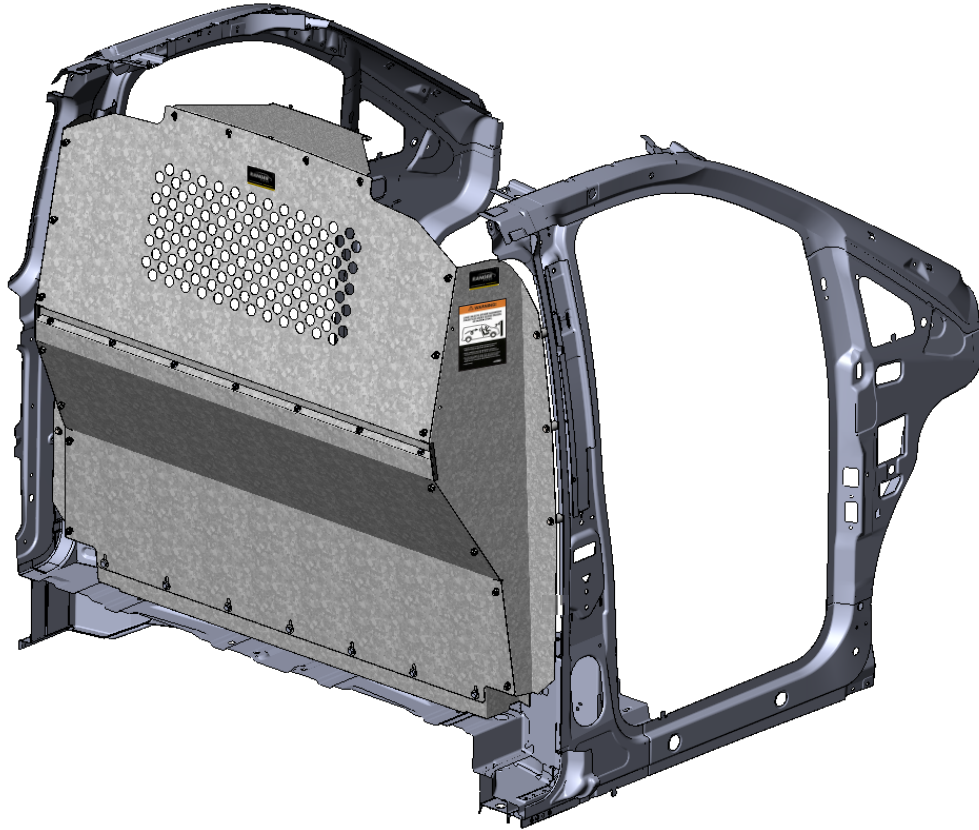
**TOOLS**

- 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



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

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

