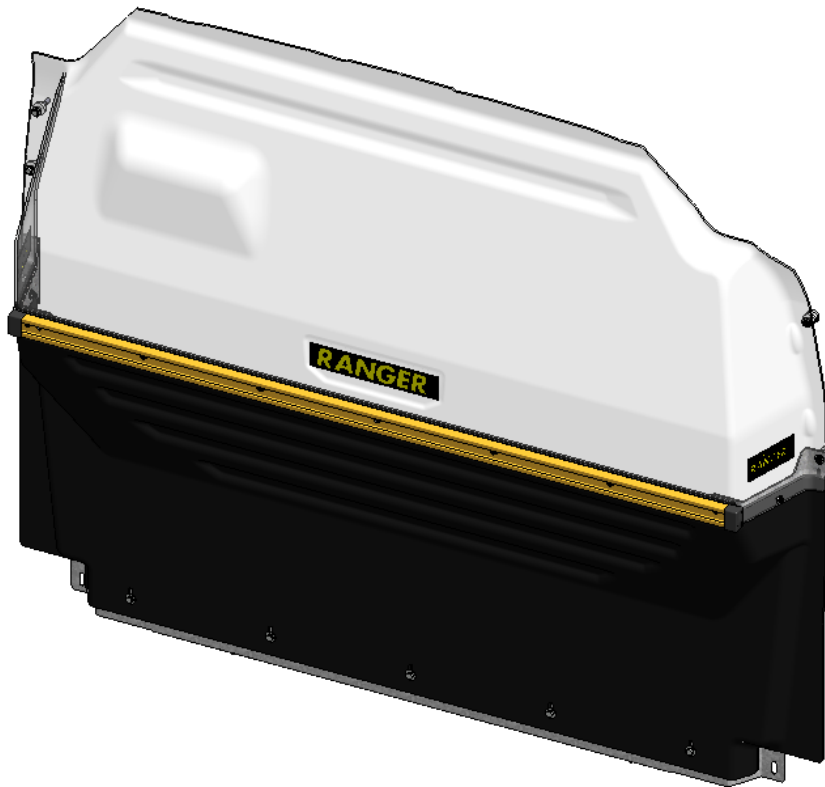


# INSTALLATION GUIDE



## 3320-FTL CONTOURED PARTITION

Transit Partition ( Clear Plastic )



# QUICK START GUIDE

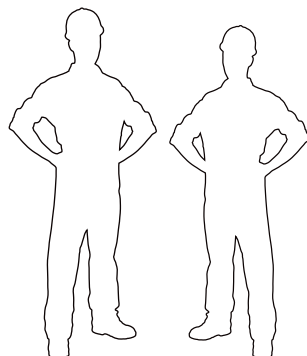
## Phase 1 - Assembly

❑ 1.1 Setup.....	3 - 5
❑ 1.2 Partition Assembly.....	6 - 8

## Phase 2 - Installation

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# REQUIRED ITEMS



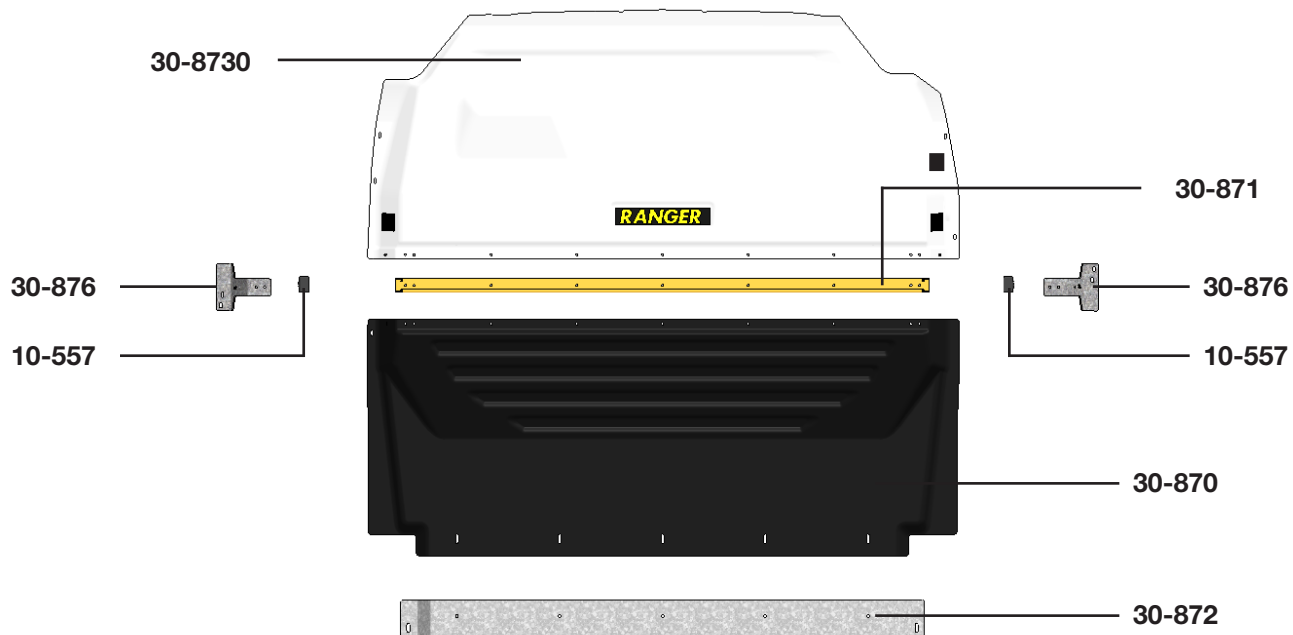
**2  
PERSONS**

- ❑ Cordless Impact
- ❑ Cordless Drill
- ❑ Marker
- ❑ Plusnut Tool
- ❑ Tape Measure
- ❑ 3/8" Drill Bit
- ❑ 7/16" Socket
- ❑ 1/2" Socket
- ❑ 1" Hole Saw
- ❑ 10mm Socket
- ❑ 13mm Socket

# PHASE 1 – ASSEMBLY

## 1.1 SETUP

1.1.1 Unpack components; compare with the bill of materials.



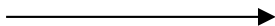
1.1.2 Verify all parts are present.

### BILL OF MATERIALS

Item No.	Description	Qty.
10-557	Mounting Track End Cap	2
30-870	Lower Panel	1
30-871	Mounting Track	1
30-872	Floor Bracket	1
30-876	Side Bracket	2
79-932	Warning Label Bilingual	1
30-8730	Upper Panel	1
94-3046	Assembly Fastener Bag	1
96-3031	Installation Fastener Bag	1

1.1.3 Identify the 94-3046 and 96-3031 fastener bags.

94-3046 Fastener Bag



Hardware Assembly

11x



# 90-114

Hex Bolt  
1/4"-20 x 1"  
GR-5 ZINC

5x



# 90-204

Hex Bolt  
5/16"-18 x 3/4"  
GR-5 ZINC

11x



# 94-112

Serrated Nut  
5/16"-20  
ZINC

5x



# 94-116

Serrated Nut  
5/16"-18  
ZINC

5x



# 98-116

Flat Washer  
5/16", 7/8" OD  
ZINC

11x



# 98-112

Flat Washer  
1/4", 3/4" OD  
ZINC

11x



#90-114 Hex Bolt 1/4" x 1"



#98-112 Flat Washer



#94-112 Serrated Nut

5x



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

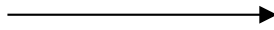


#98-116 Flat Washer






#94-116 Serrated Nut

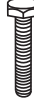




## 96-3031 Fastener Bag



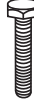





## Hardware Assembly

5x		# 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
5x		# 94-130	Plusnut .250
7x		# 98-112	Flat Washer 1/4", 3/4" OD ZINC
7x		# 98-118	Lock Washer Regular 1/4" ZINC
16x		# 98-157	Spacer 0.375" ID, x 1.0" OD x 0.25" LONG NYLON
5x		# 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 ( 3 )
	#94-130 Plusnut .250

3x

	#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

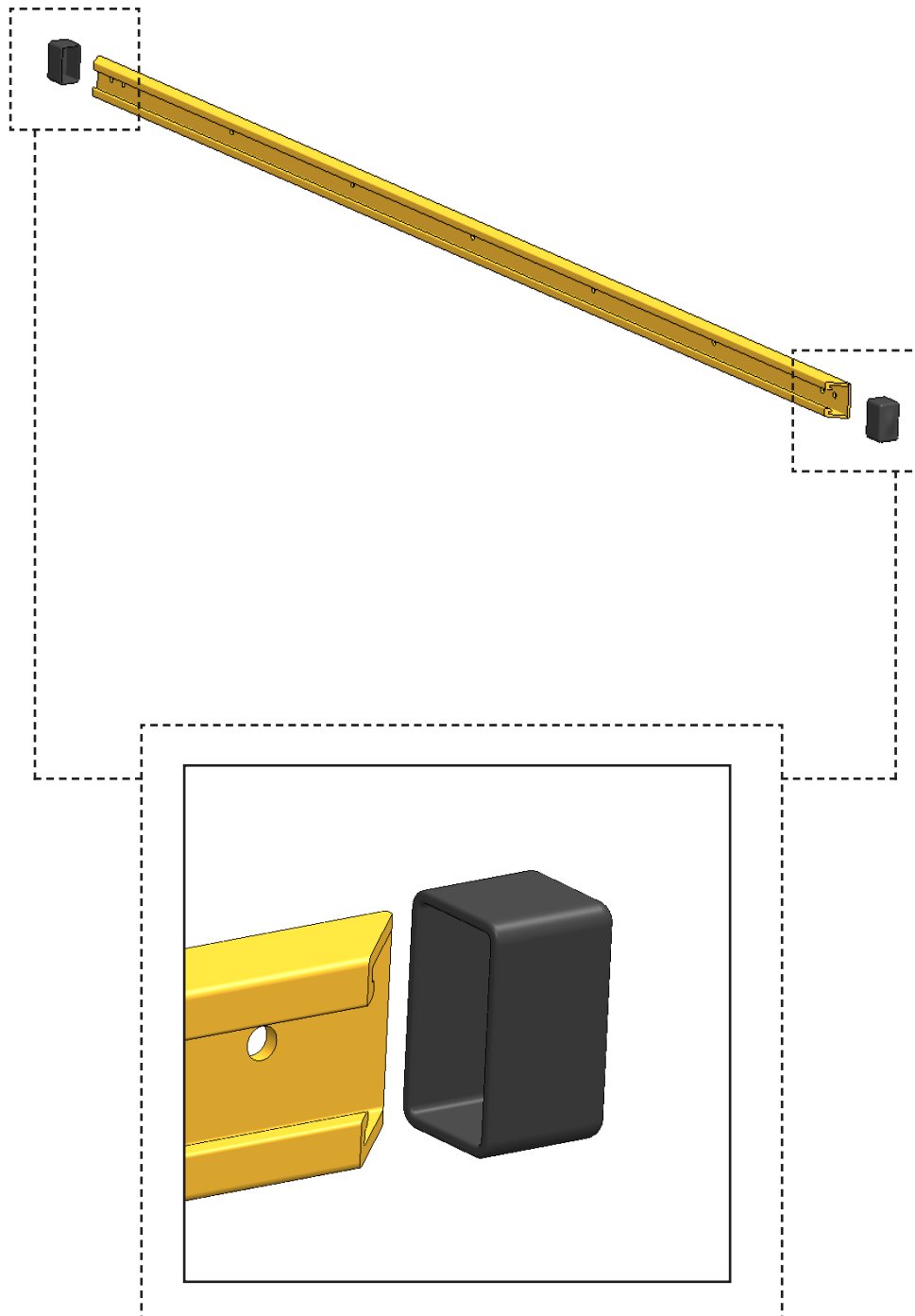
2x

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

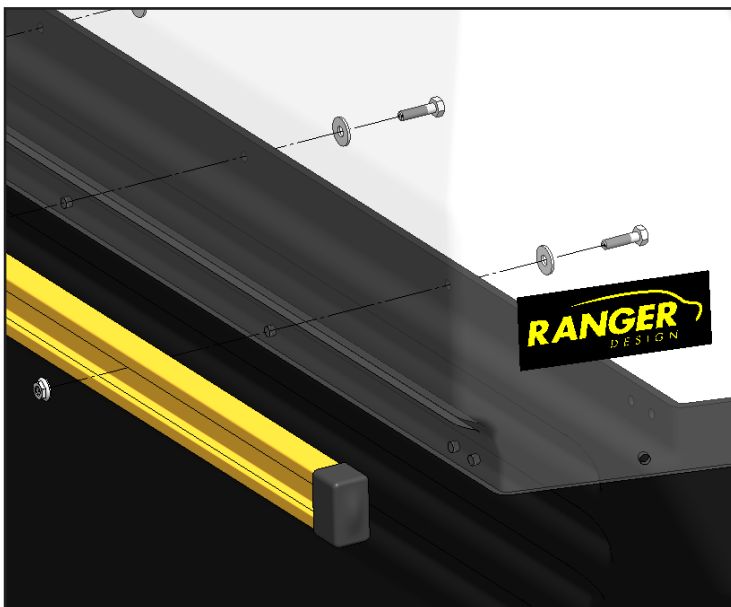
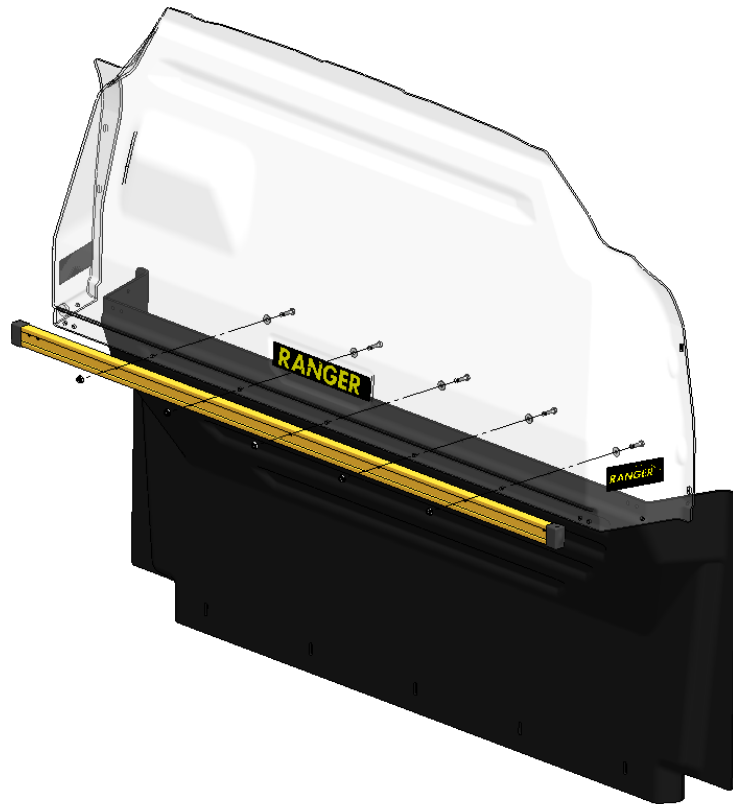
# PHASE 1 – ASSEMBLY

## 1.2 PARTITION ASSEMBLY

**1.2.1** Attach the end caps on the both ends of the mounting track.



**1.2.2** Attach the lower panel and mounting track to the upper panel.



#### TOOLS

- Cordless Impact
- 7/16" Socket

#### HARDWARE USED

5x



#90-114 Hex Bolt 1/4" x 1"

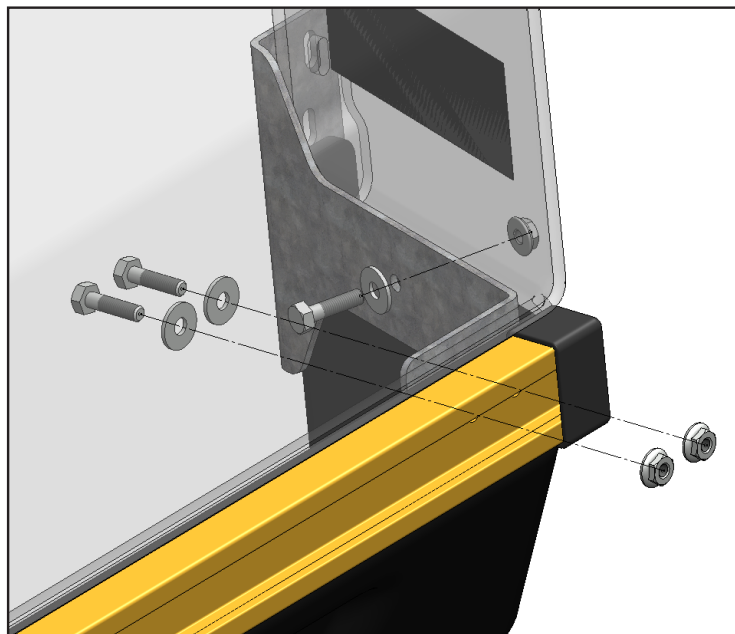
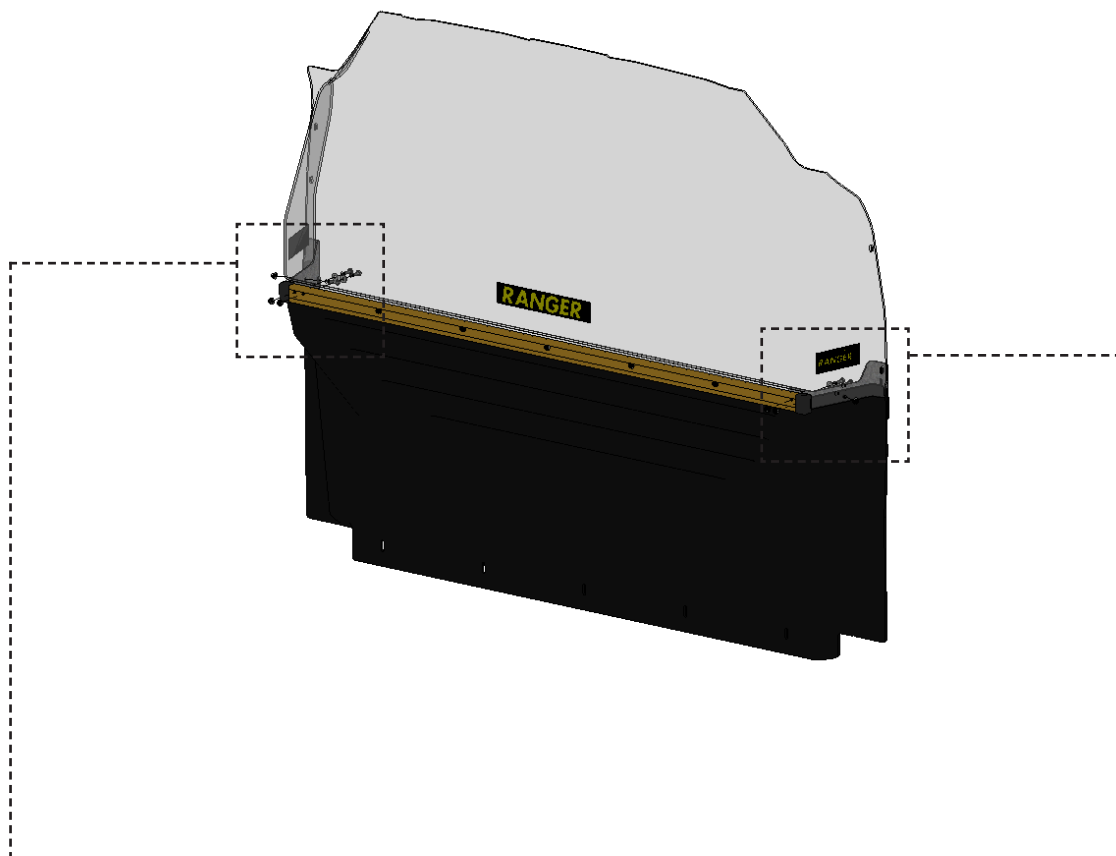


#98-112 Flat Washer



#94-112 Serrated Nut

**1.2.3** Attach the side brackets to the panels and track.



**TOOLS**

- Cordless Impact
- 7/16" Socket

**HARDWARE USED**

**6x**



#90-114 Hex Bolt 1/4" x 1"



#98-112 Flat Washer



#94-112 Serrated Nut

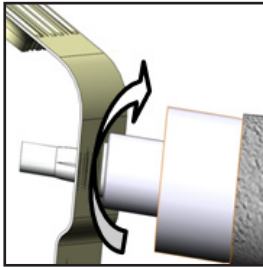


# PHASE 2 – INSTALLATION

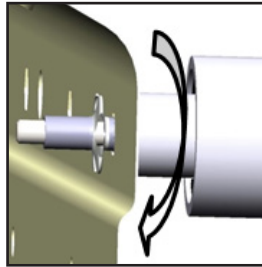
## 2.1 TIPS ON HOW TO ATTACH A PLUSNUT

**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**

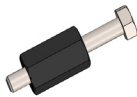


**REVERSE**



**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

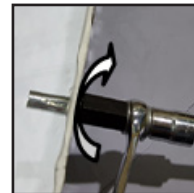
### TIPS STEP 1:

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**



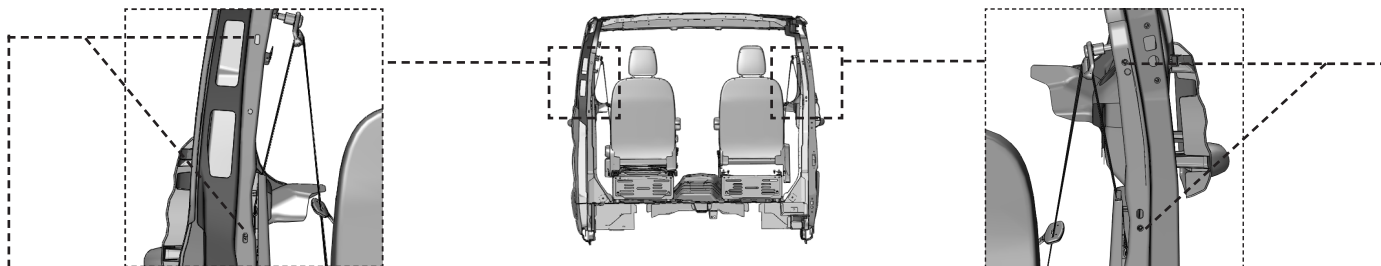
**REVERSE**

# PHASE 2 – INSTALLATION

## 2.2 VEHICLE PREPARATION

### 2.2.1 Driver and passenger sides preparation.

**NOTE:** This partition is design w/ floor make a new holes in the van if the holes is not align in the holes of the panels.



Put a mark on the plastic over these 2 holes.



#### TOOLS

- ☐ Marker

Use 1" hole saw to drill through the plastic cover over these two factory holes.



#### TOOLS

- ☐ 1" Hole Saw
- ☐ Cordless Drill

Use 3/8" drill to enlarge the bottom part of these two factory holes.



#### TOOLS

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

Attach plusnuts on the two factory holes.



#### TOOLS

- ☐ Plusnut Tool

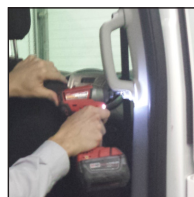
#### HARDWARE USED

2x



# 94-130  
Plusnut .250

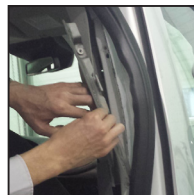
Remove the factory handle in the van.



#### TOOLS

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

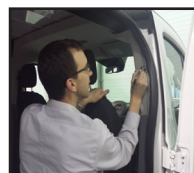
After removing the handle, pull the rubber out, then remove the bracket by removing the two bolts.



#### TOOLS

- ☐ Cordless Impact
- ☐ 10mm Socket

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



#### TOOLS

- ☐ Marker

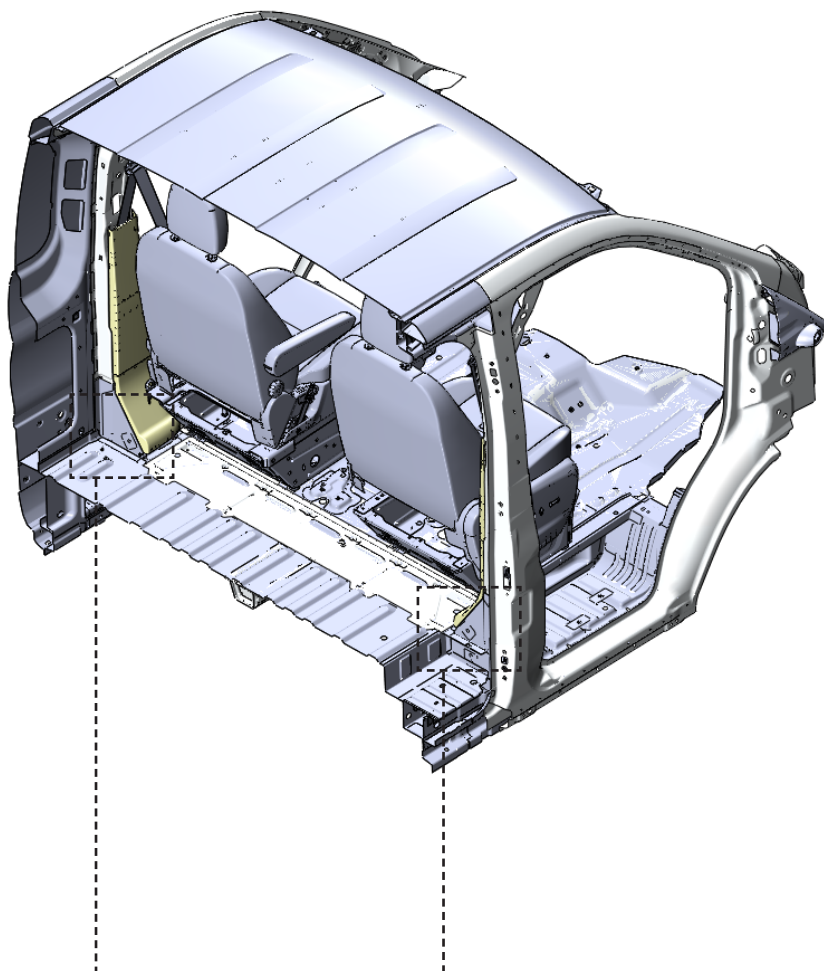
Gently pull the plastic b-pillar from the metal. Use a 1" hole saw to drill through the plastic cover over these two factory threaded holes. (Use caution not to damage the threaded holes).



#### 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

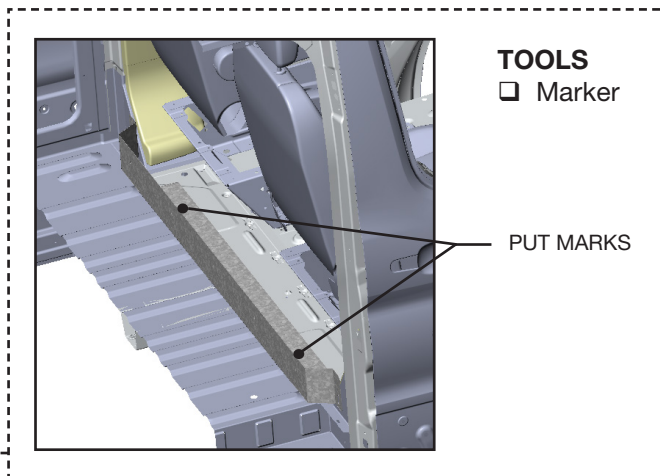
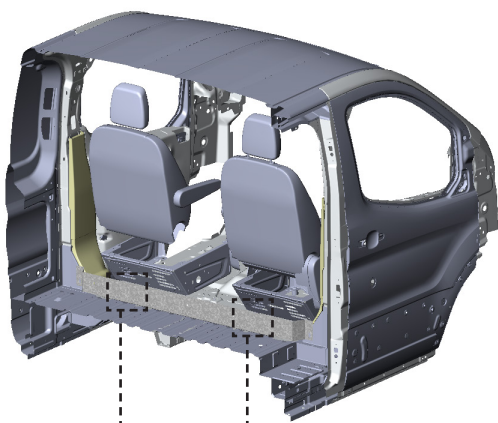
# PHASE 2 – INSTALLATION

## 2.3 CONTOURED PARTITION INSTALLATION

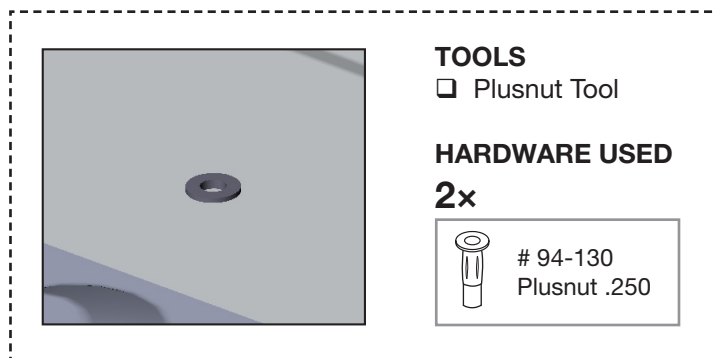
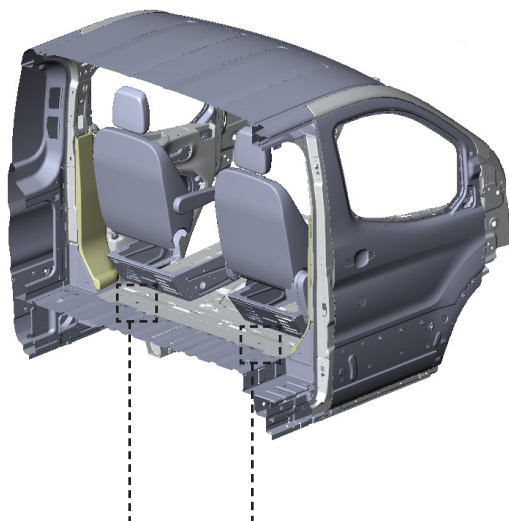
**2.3.1** Put the floor bracket in place, marks the 2 holes from the floor bracket to the floor, then drill the marks using 3/8" drill bit.

**NOTE:**

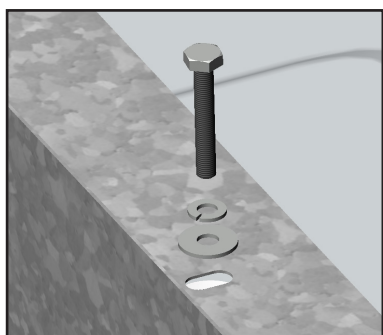
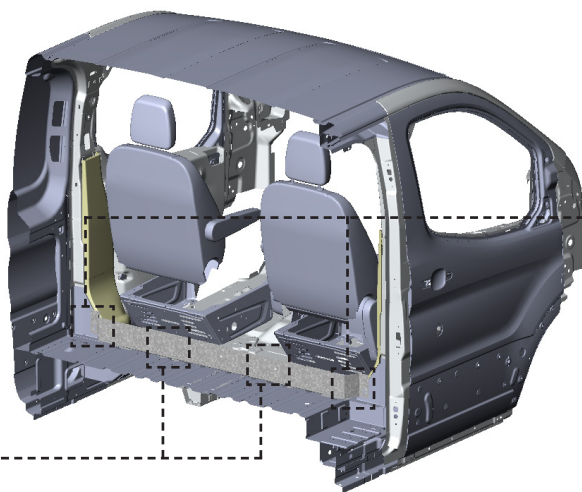
- If the van has a wood floor or rubber floor drill the floor using 1" hole saw.
- If the van has a hole already enlarge the hole using 3/8" drill bit.



**2.3.2** Attach plusnut on the 2 holes.



### 2.3.3 Attach the floor bracket to the van.

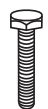


#### TOOLS

- ☐ Socket Wrench
- ☐ 7/16" Socket

#### HARDWARE USED

**2x**



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



#98-118 Lock Washer



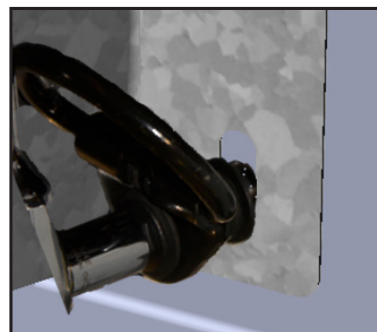
#98-112 Flat Washer



#98-157 Spacers ( 3 )  
( FOR WOOD AND RUBBER FLOOR ONLY )



Plusnut is already on the vehicle



#### TOOLS

- ☐ Socket Wrench
- ☐ 13mm Socket

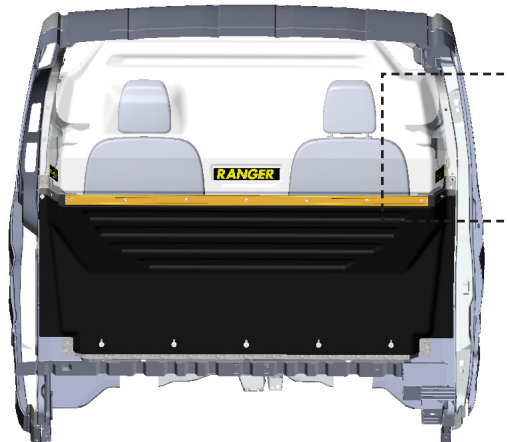
#### HARDWARE USED

**2x**





**2.3.4** Attach the upper panel to the passenger side of the van.



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

**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



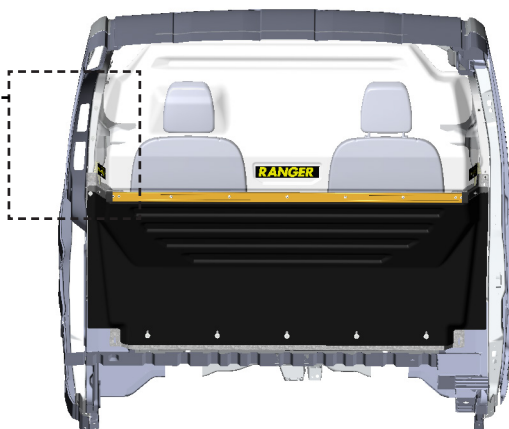
Attach the upper panel to the passenger side threaded holes of the vehicle.

**NOTE:** Hand-tighten the bolts just to hold the upper panel for adjustment.

**TOOLS**

- ☐ Cordless Impact
- ☐ 10mm Socket

**2.3.5** Attach the upper panel to the driver side of the van.



Put a bolt, lock washer, flat washer, 2 spacers and a retaining washer in the 3 holes of the driver side of the upper panel.

**HARDWARE USED**

**2x**



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



#98-118 Lock Washer



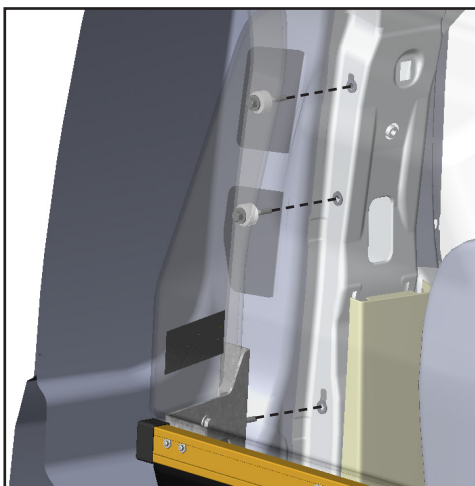
#98-112 Flat Washer



#98-157 Spacers ( 2 )



#98-158 Retaining Washer

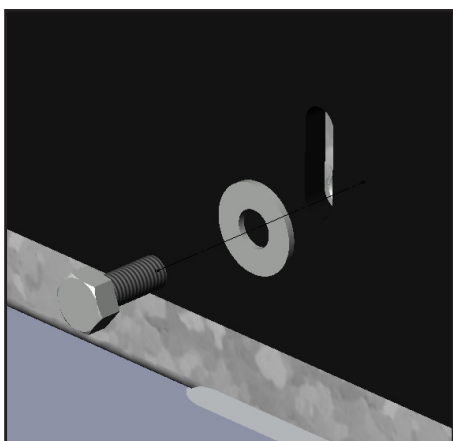
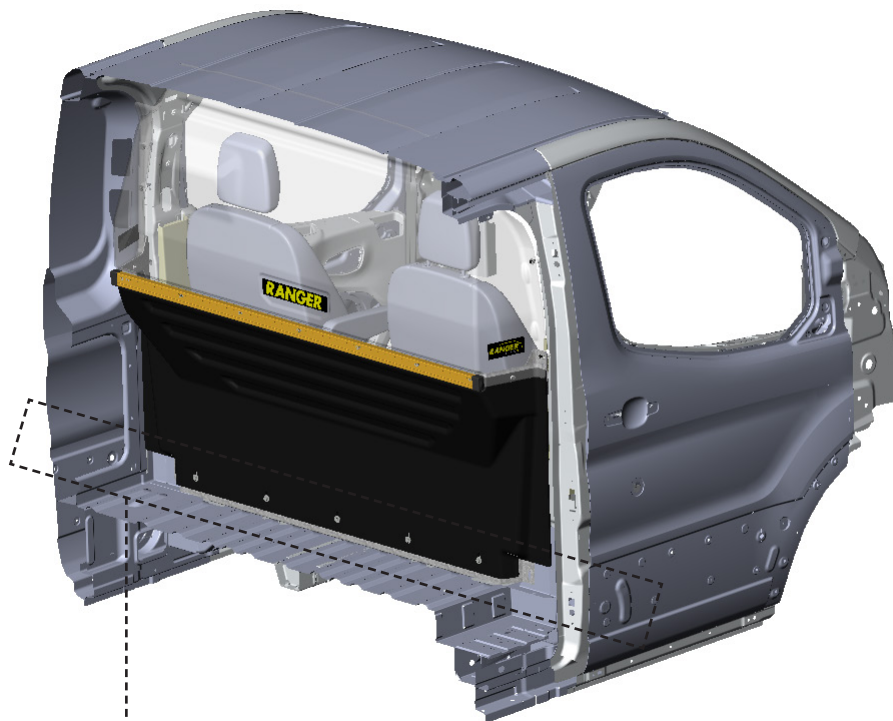


Attach the upper panel to the plusnuts on the driver side of the vehicle.

**TOOLS**

- ☐ Socket Wrench
- ☐ 7/16" Socket

**2.3.6** Attach the lower panel to the floor bracket.



**TOOLS**

- ☐ Cordless Impact
- ☐ 1/2" Socket

**HARDWARE USED**

**5x**



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



#98-116 Flat Washer



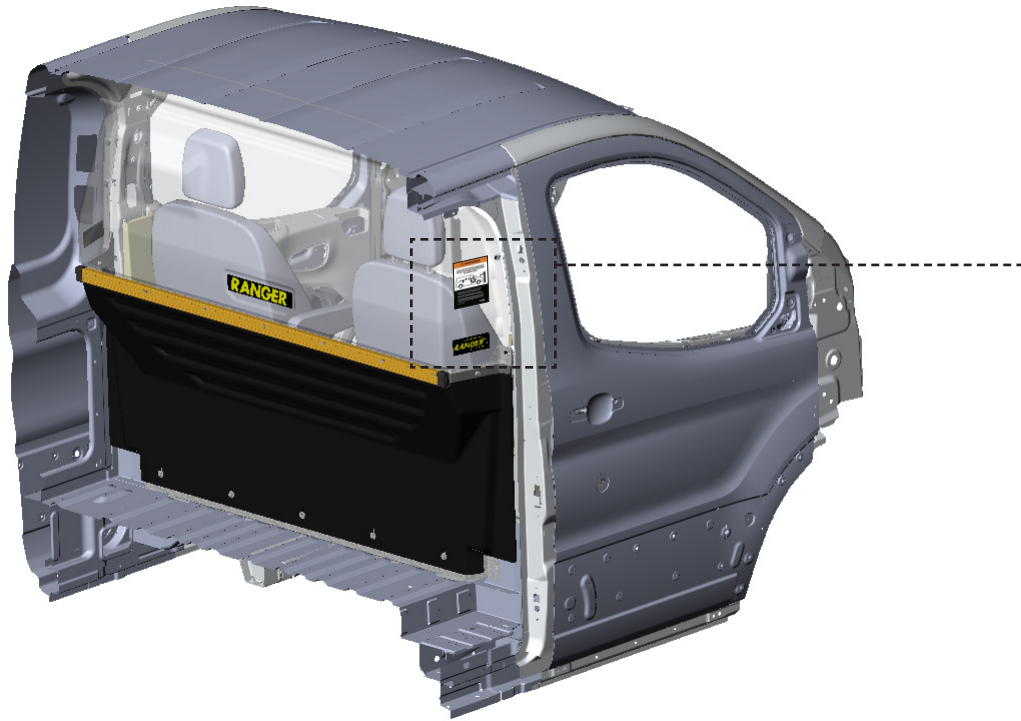
#94-116 Serrated Nut

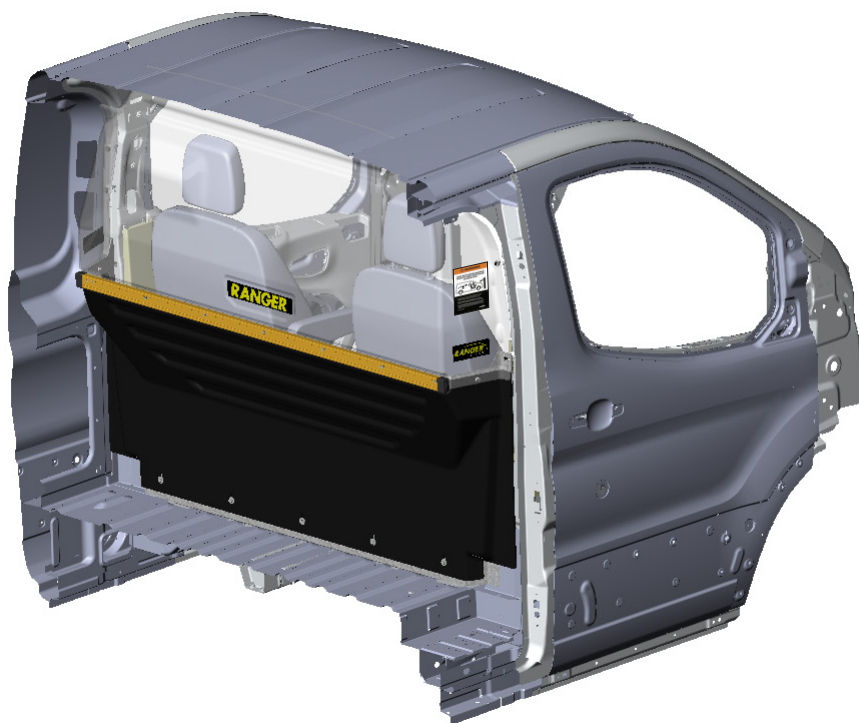


**2.3.7** Apply the warning label on the passenger side wing.

**NOTE:** The english warning label is already attached to the upper panel.

**WARNING:** After installation is complete make sure all the bolts are tighten.





**“Congratulations, you have successfully installed your  
3320-FTL Partition!”**

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

For any feedback or suggestions you may have, please contact: [\*\*cs@rangerdesign.com\*\*](mailto:cs@rangerdesign.com)

