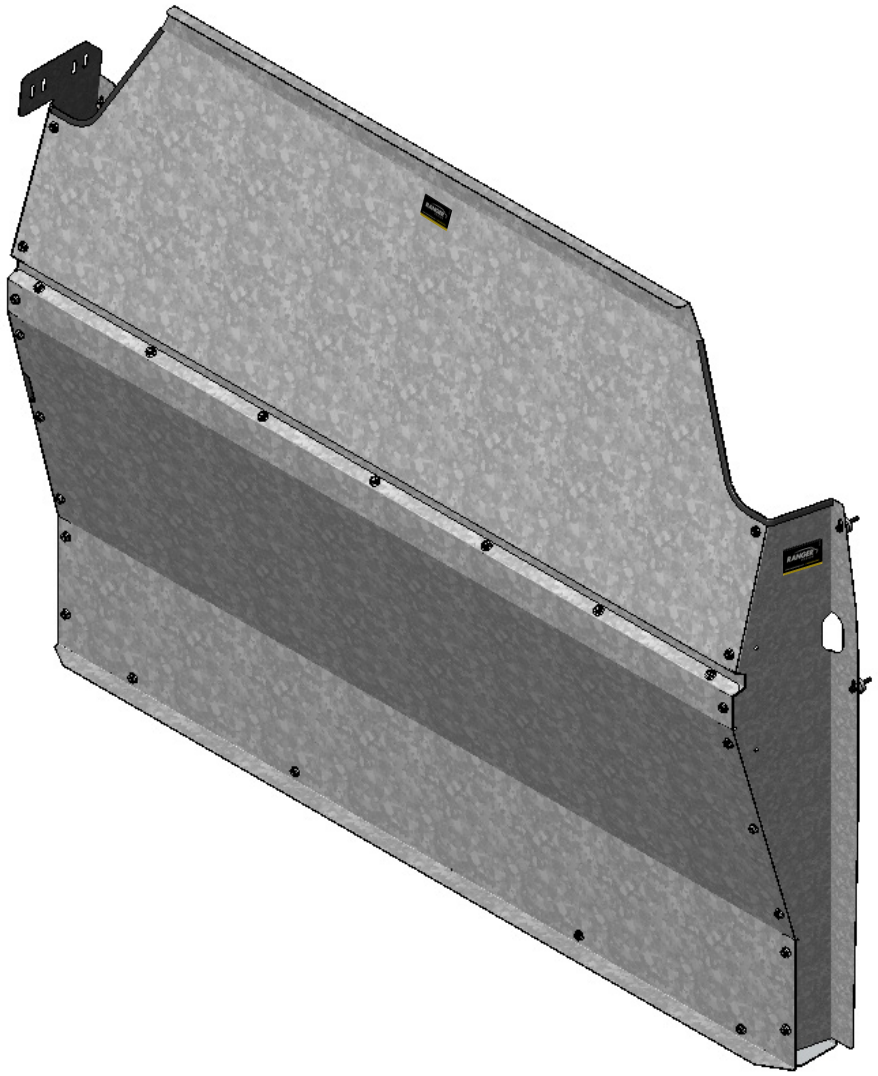
INSTALLATION GUIDE



C12-FTL CONTOURED PARTITION

Transit Partition (Steel)

RANGER DESIGN

QUICK START GUIDE

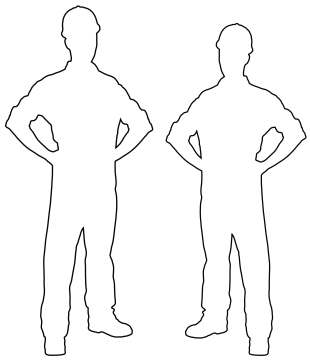
Phase 1 - Assembly

❑ 1.1 Setup..... 3
❑ 1.1.1 Unpack components; compare with the bill of materials..... 3
❑ 1.1.2 Verify all parts are present..... 3
❑ 1.1.3 Identify the assembly and installation fastener bags..... 4
❑ 1.2 Partition assembly..... 5
❑ 1.2.1 Remove all the PVC from all the parts, then attach the upper panel to the lower panel..... 5
❑ 1.2.2 Attach both wings to the upper and lower panels..... 5
❑ 1.2.3 Attach the edge trims on these locations..... 6

Phase 2 - Installation

❑ 2.1 Tips on how to attach a plusnut..... 6
❑ 2.1.1 Attach plusnut using plusnut gun..... 6
❑ 2.1.2 Attach plusnut using 6490 plusnut tool..... 7
❑ 2.2 Vehicle preparation..... 8
❑ 2.2.1 Driver and passenger sides preparation..... 8
❑ 2.2.2 Floor preparation..... 9
❑ 2.3 Contoured partition installation..... 9
❑ 2.3.1 Floor bracket installation..... 9
❑ 2.3.2 Attach the passenger side wing to the van..... 10
❑ 2.3.3 Attach the driver side wing to the van..... 11
❑ 2.3.4 Attach the lower panel to the floor bracket..... 12
❑ 2.3.5 Apply the warning label on the passenger side wing..... 13

REQUIRED ITEMS



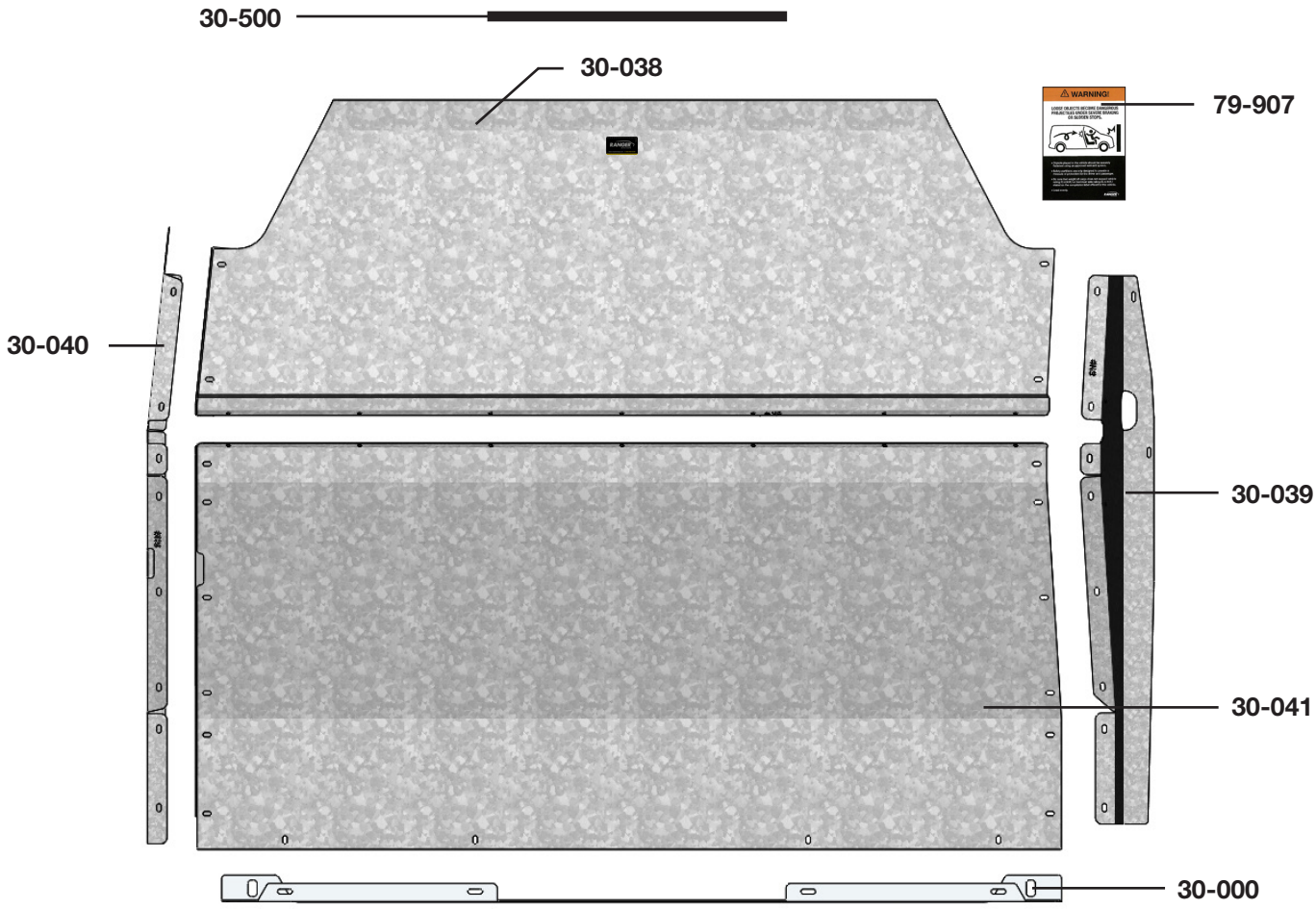
2
PERSONS

- ❑ 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
30-038	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
79-907	Warning Label	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

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

27×

#90-200 Hex Bolt 5/16" × 1/2"

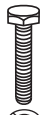
#98-116 Flat Washer

#94-116 Serrated Nut

Installation Fastener Bag → Hardware Assembly

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

2×



#90-130 Hex Bolt 1/4" × 2"

#98-118 Lock Washer

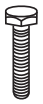
#98-112 Flat Washer

#98-157 Spacers (2)

#98-158 Retaining Washer

#94-130 Plusnut .250

2×



#90-836 Hex Bolt M6 × 40

#98-118 Lock Washer

#98-112 Flat Washer

#98-157 Spacers (2)

#98-158 Retaining Washer

2×

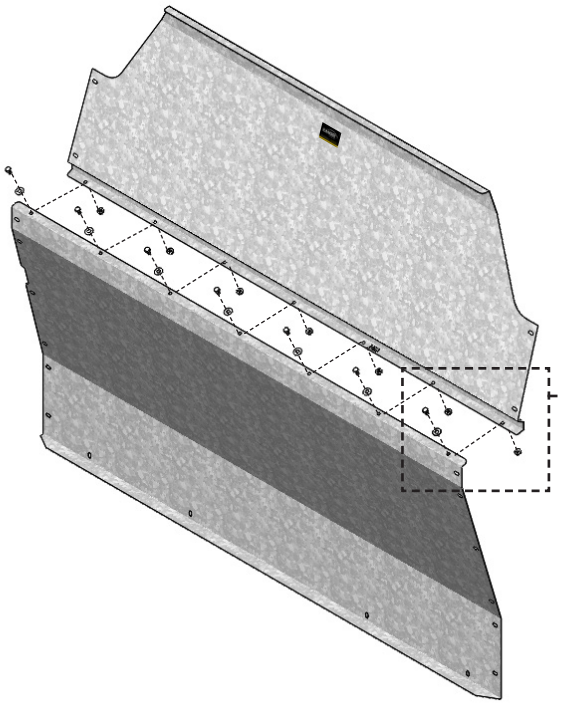
#90-010 Screw, Torx 7/16" × 1"

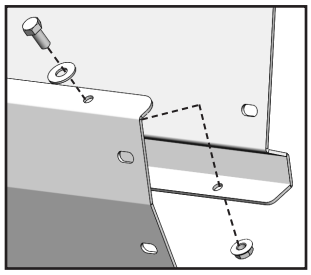
#98-141 Square Flat Washer

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

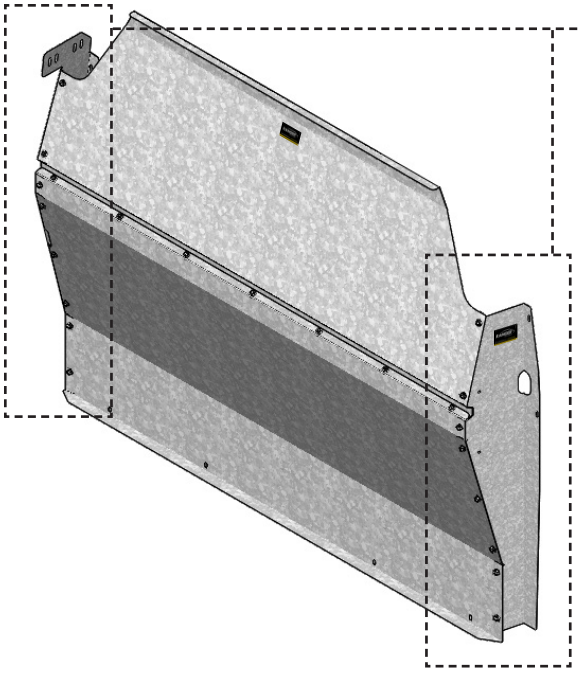
- ❑ Cordless Impact
- ❑ 1/2" Socket

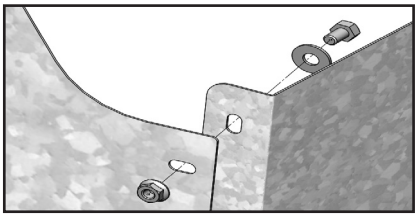
HARDWARE USED

7×

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

1.2.2 Attach both wings to the upper and lower panels.





TOOLS

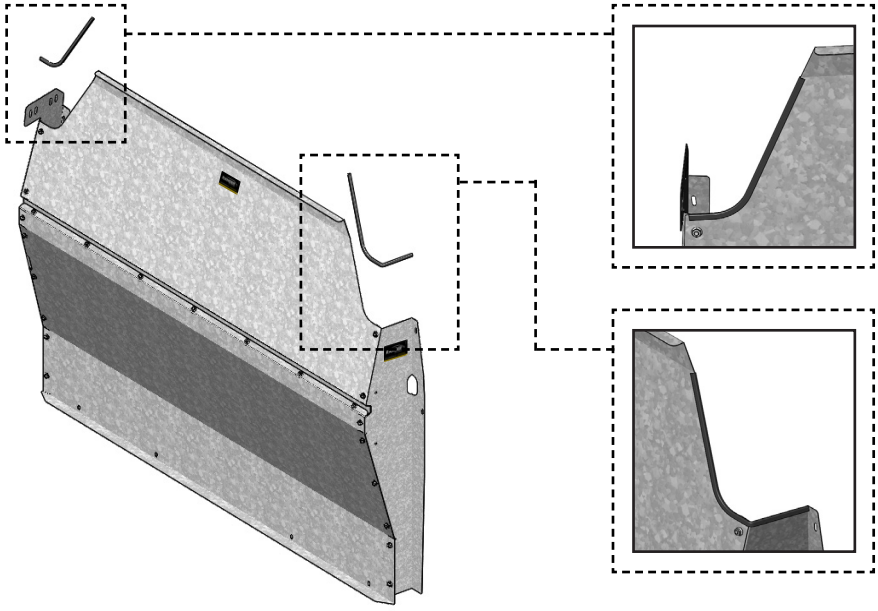
- ❑ Cordless Impact
- ❑ 1/2" Socket

HARDWARE USED

16×

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

1.2.3 Attach the edge trims on these locations.



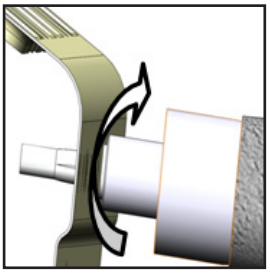
TOOLS
- ❑ Mallet
- ❑ Cutter

PHASE 2 – INSTALLATION

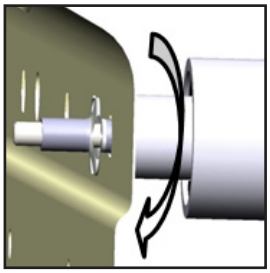
2.1 TIPS ON HOW TO ATTACH A PLUSNUT

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

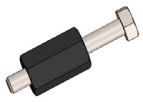


REVERSE

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.

6490



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.

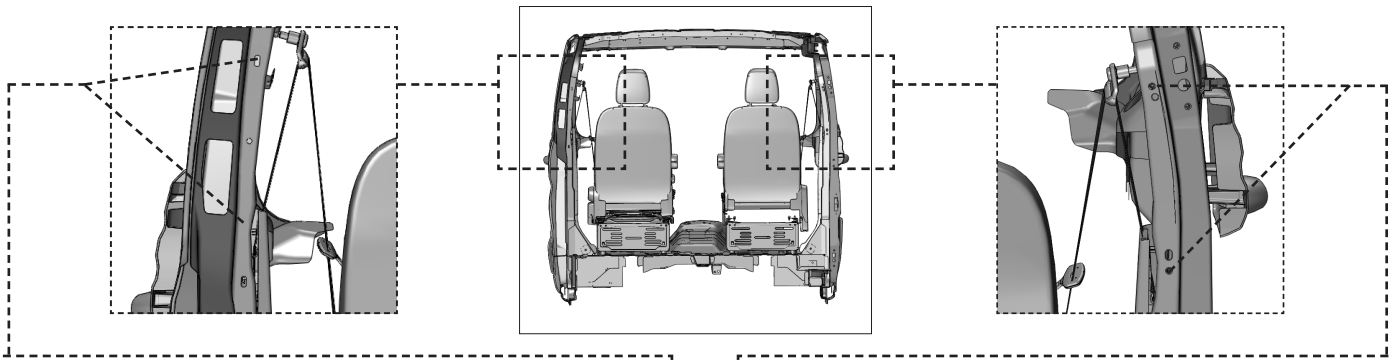
FORWARD

REVERSE

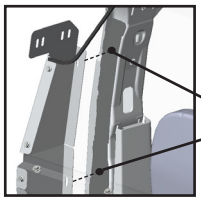
PHASE 2 – INSTALLATION

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

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

Attach plusnuts in the two holes.

TOOLS
- ❑ Plusnut Tool

HARDWARE USED

2×

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

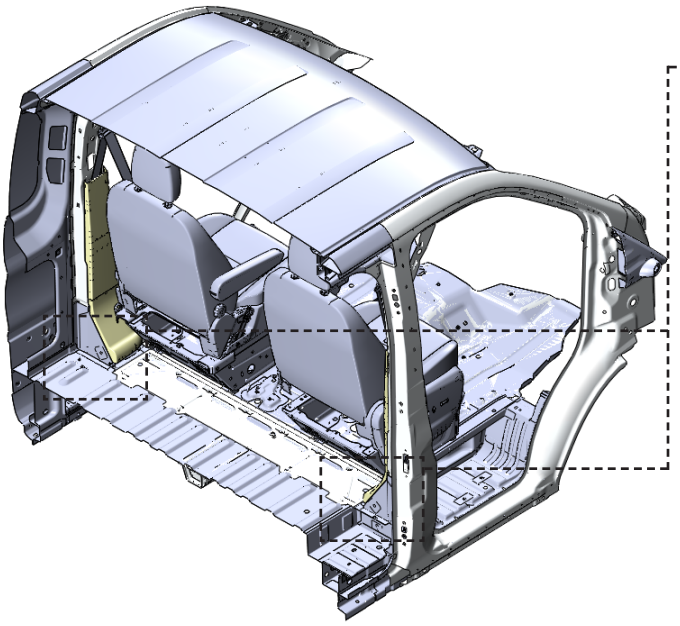
Put a mark on the plastic over the 2 threaded holes.

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.



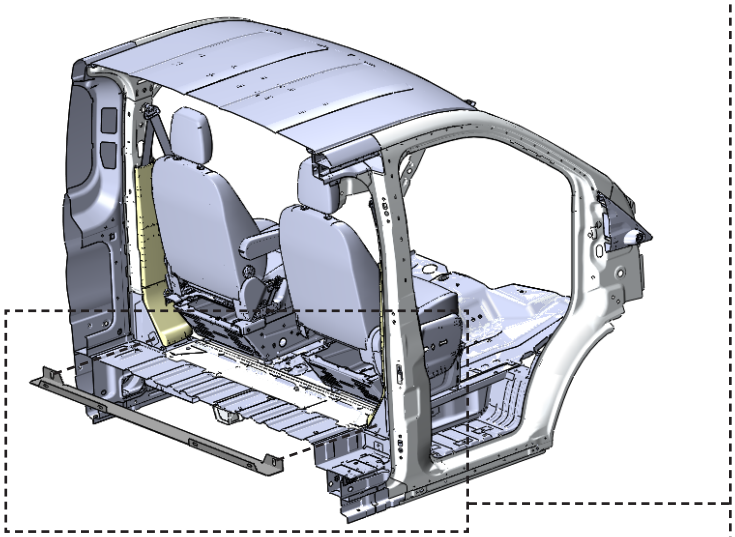
Remove the two D-rings in the floor, for re-use.

TOOLS
- ❑ Cordless Impact
- ❑ 13mm Socket

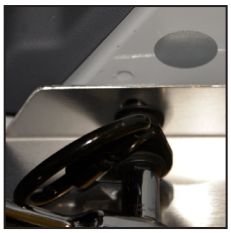
PHASE 2 – INSTALLATION

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.

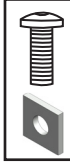


TOOLS
- ❑ Socket Wrench
- ❑ 13mm Socket
- ❑ T50 Torx Bit

HARDWARE USED

2×

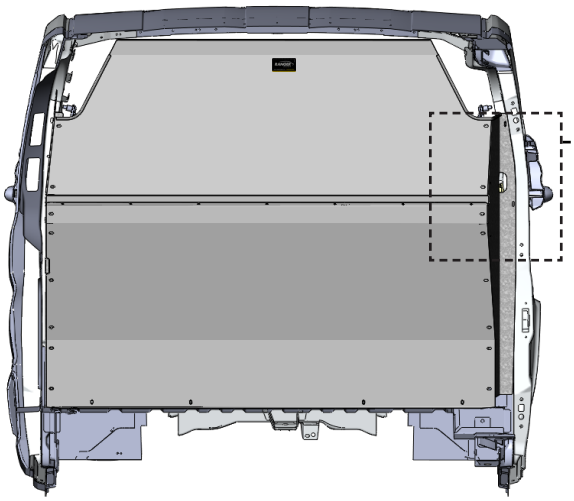
2×

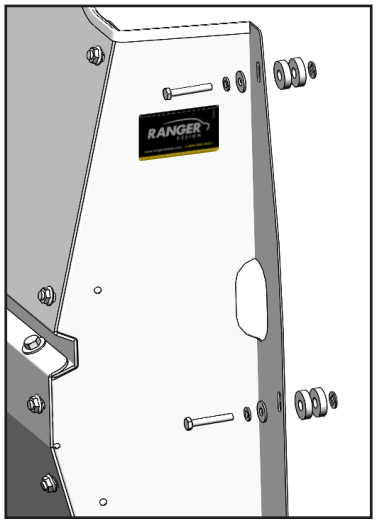


#90-010 Screw, Torx 7/16" × 1"

#98-141 Square Flat Washer

2.3.2 Attach the passenger side wing to the van.

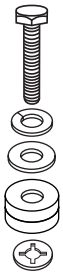




Put a bolt, lock washer, flat washer, 2 spacers and a retaining washer in the 1st and 3rd holes of the passenger side wing.

HARDWARE USED

2×



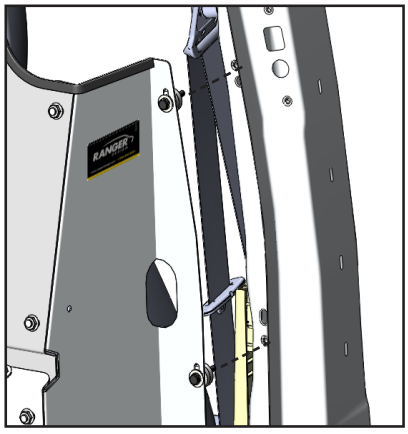
#90-836 Hex Bolt M6 × 40

#98-118 Lock Washer

#98-112 Flat Washer

#98-157 Spacers (2)

#98-158 Retaining washer

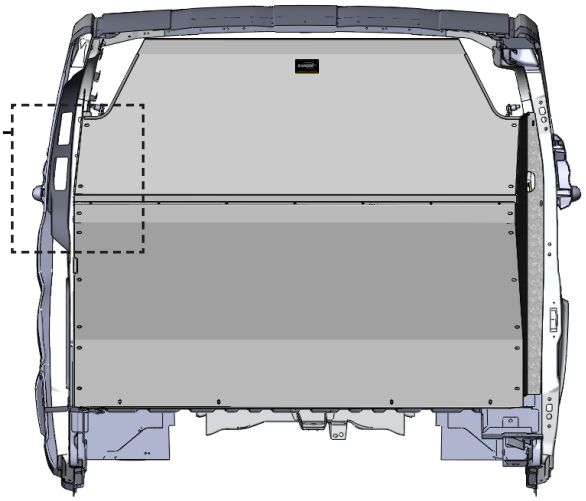


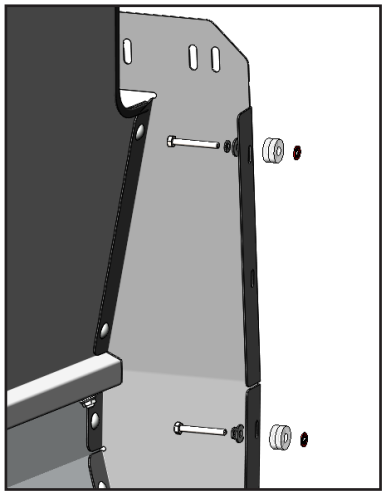
Attach the passenger side wing using the 2 metric bolts into the 2 threaded holes.

TOOLS

- ❑ Cordless Impact
- ❑ 10mm Socket

2.3.3 Attach the driver side wing to the van.

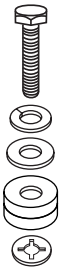




Put a bolt, lock washer, flat washer, 2 spacers and a retaining washer in the 1st and 3rd holes of the driver side wing.

HARDWARE USED

2×



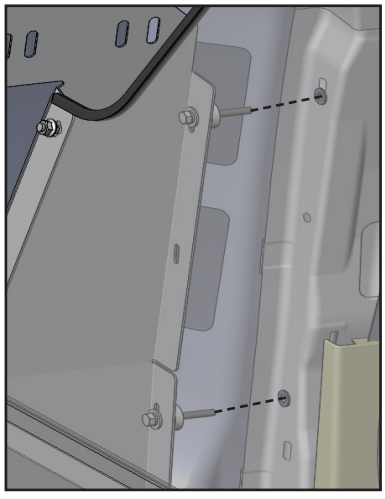
#90-130 Hex Bolt 1/4" x 2"

#98-118 Lock Washer

#98-112 Flat Washer

#98-157 Spacers (2)

#98-158 Retaining Washer

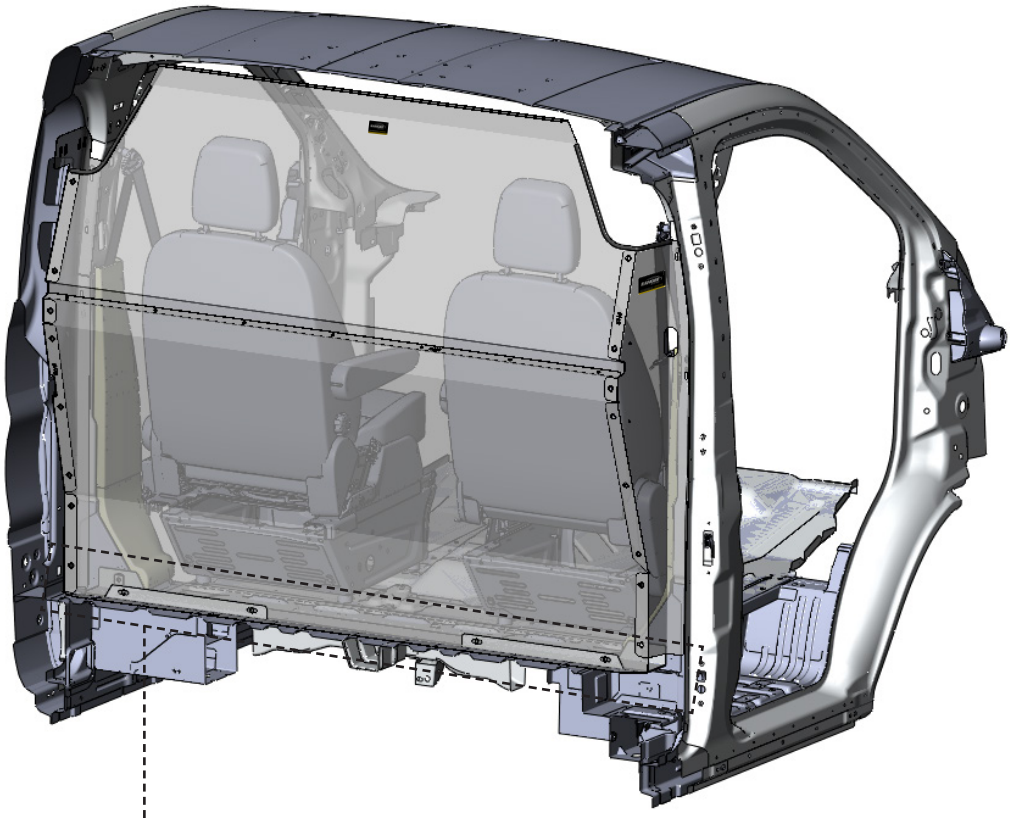


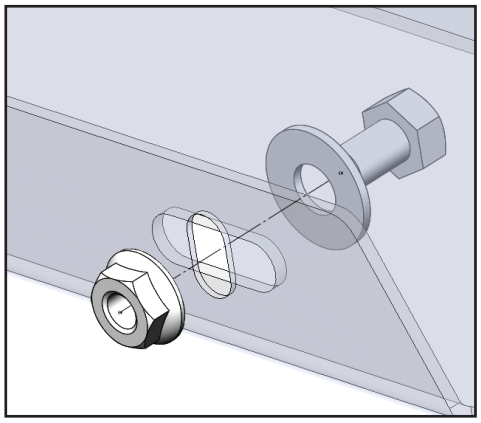
Attach the driver side wing using the hex bolts into the 2 plusnuts.

TOOLS

- ❑ Socket Wrench
- ❑ 7/16" Socket

2.3.4 Attach the lower panel to the floor bracket.





TOOLS

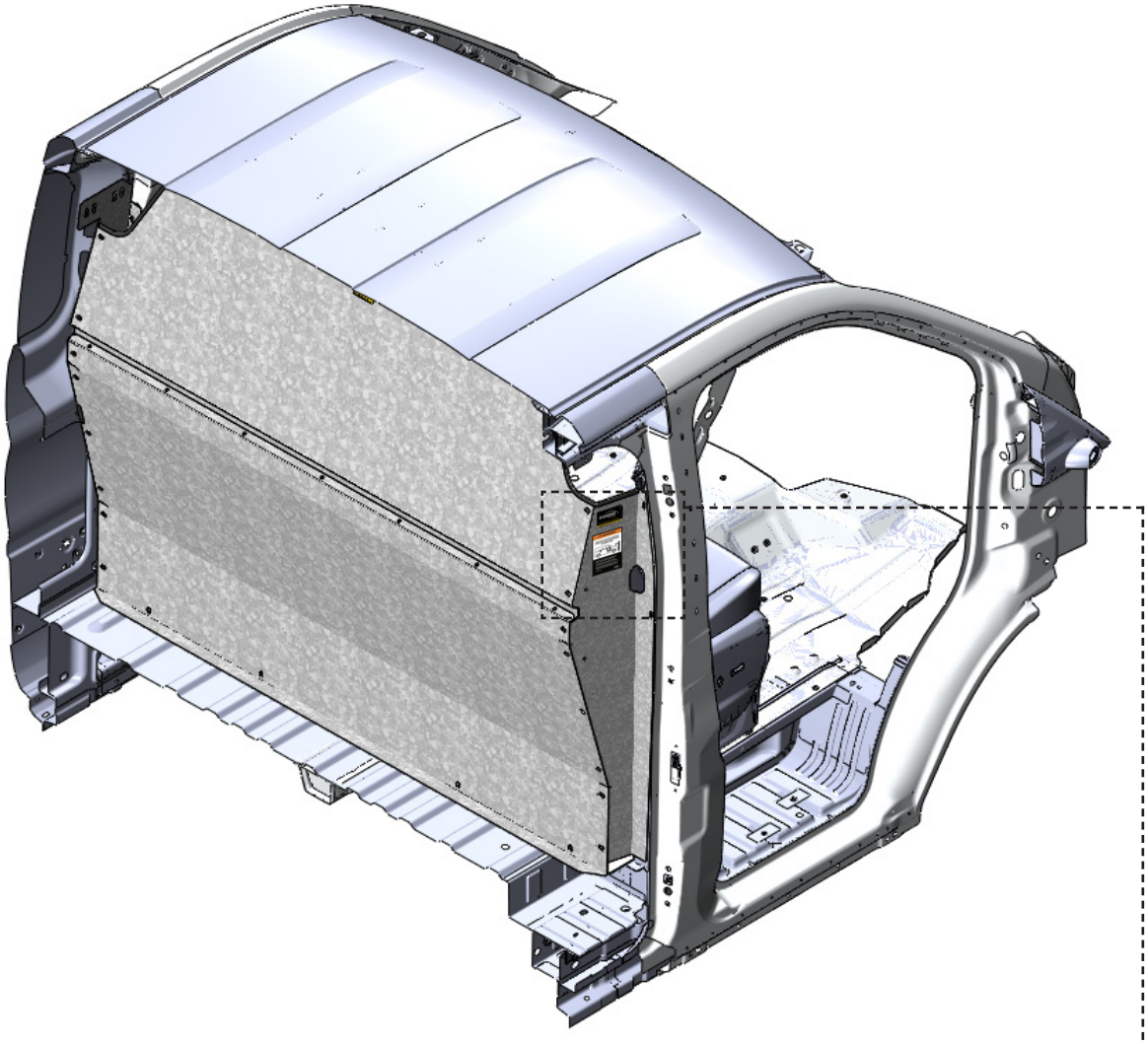
- ❑ Cordless Impact
- ❑ 1/2" Socket

HARDWARE USED

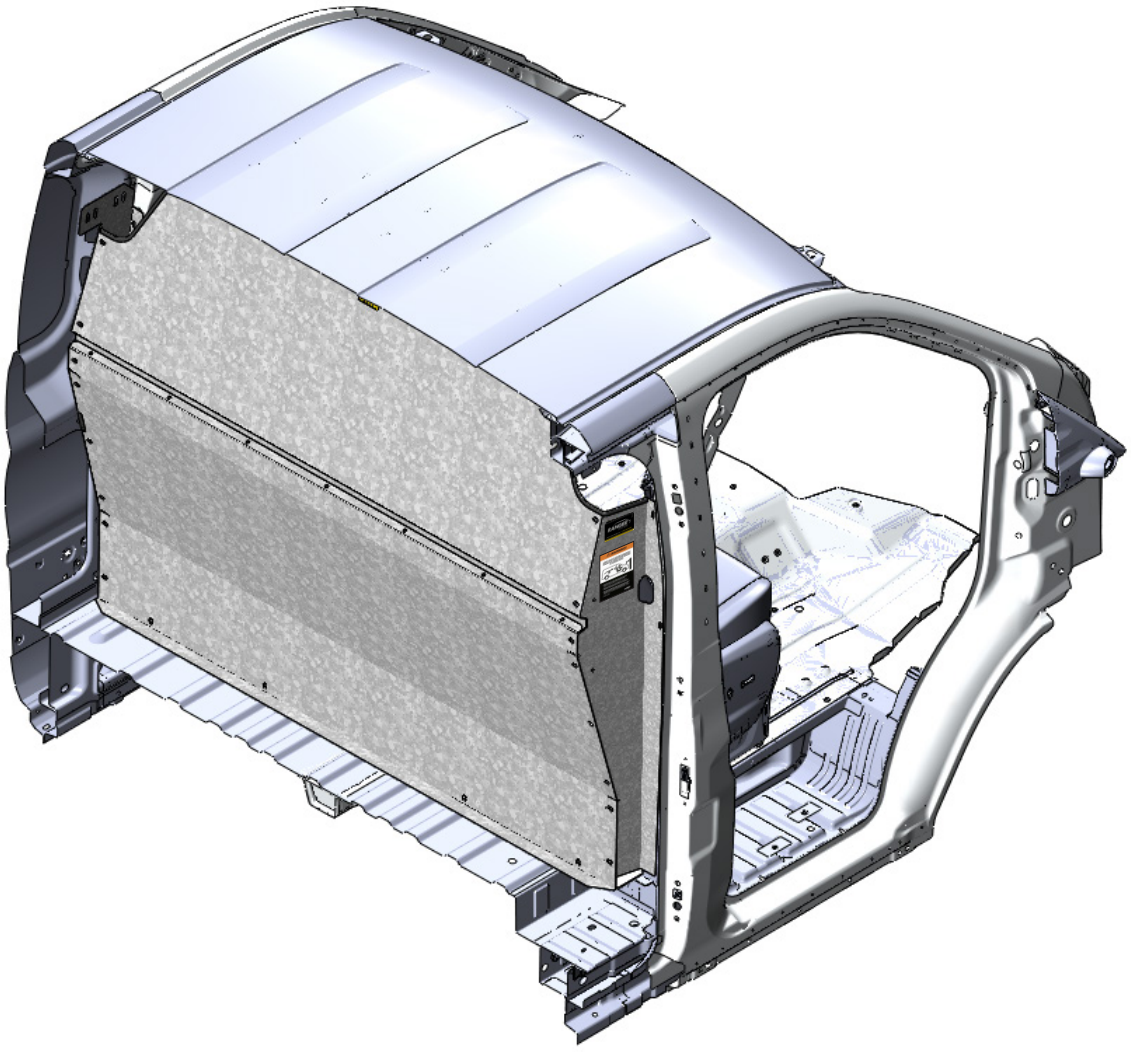
4×

	#90-200 Hex Bolt 5/16" × 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.”

RANGER DESIGN