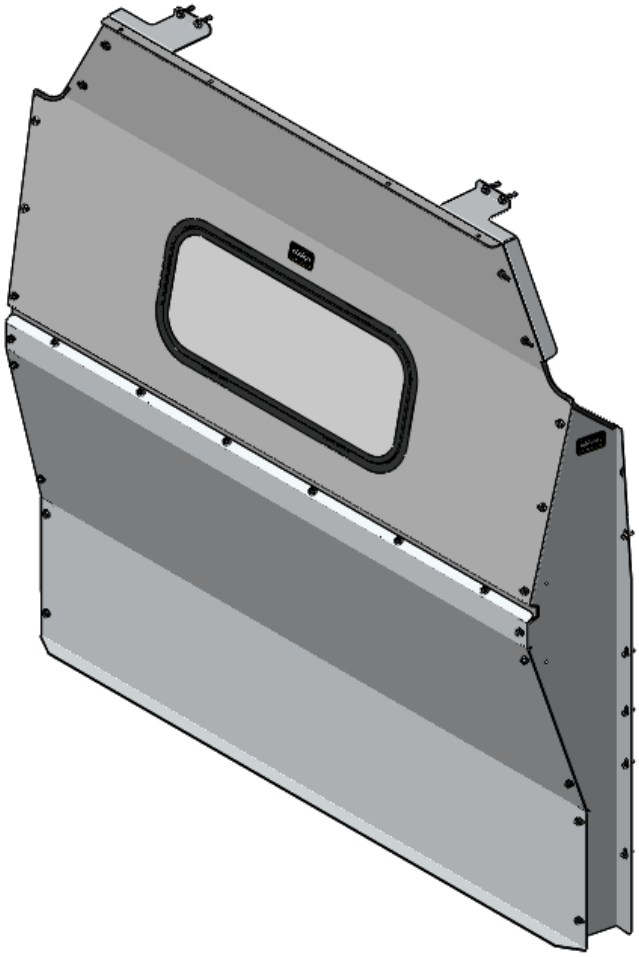
INSTALLATION GUIDE



3020-FTM CONTOURED PARTITION

Transit Partition (Polycarbonate Window, Aluminum)

RANGER DESIGN

QUICK START GUIDE

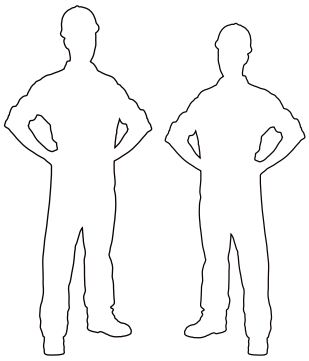
Phase 1 - Assembly

❑ 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 passenger and driver side ceiling brackets on the upper panel..... 6
❑ 1.2.4 Attach the edge trims on these locations..... 6

Phase 2 - Installation

❑ 2.1 Tips on how to attach a plusnut..... 7
❑ 2.1.1 Attach plusnut using plusnut gun..... 7
❑ 2.1.2 Attach plusnut using 6490 plusnut tool..... 7
❑ 2.2 Vehicle preparation..... 8
❑ 2.2.1 Ceiling preparation..... 8
❑ 2.2.2 Driver and passenger sides preparation..... 9
❑ 2.3 Contoured partition installation..... 10
❑ 2.3.1 Attach both wings to the van..... 10
❑ 2.3.2 Attach the driver and passenger side ceiling brackets to the van..... 11
❑ 2.3.3 Apply the warning label on the passenger side wing..... 11

REQUIRED ITEMS



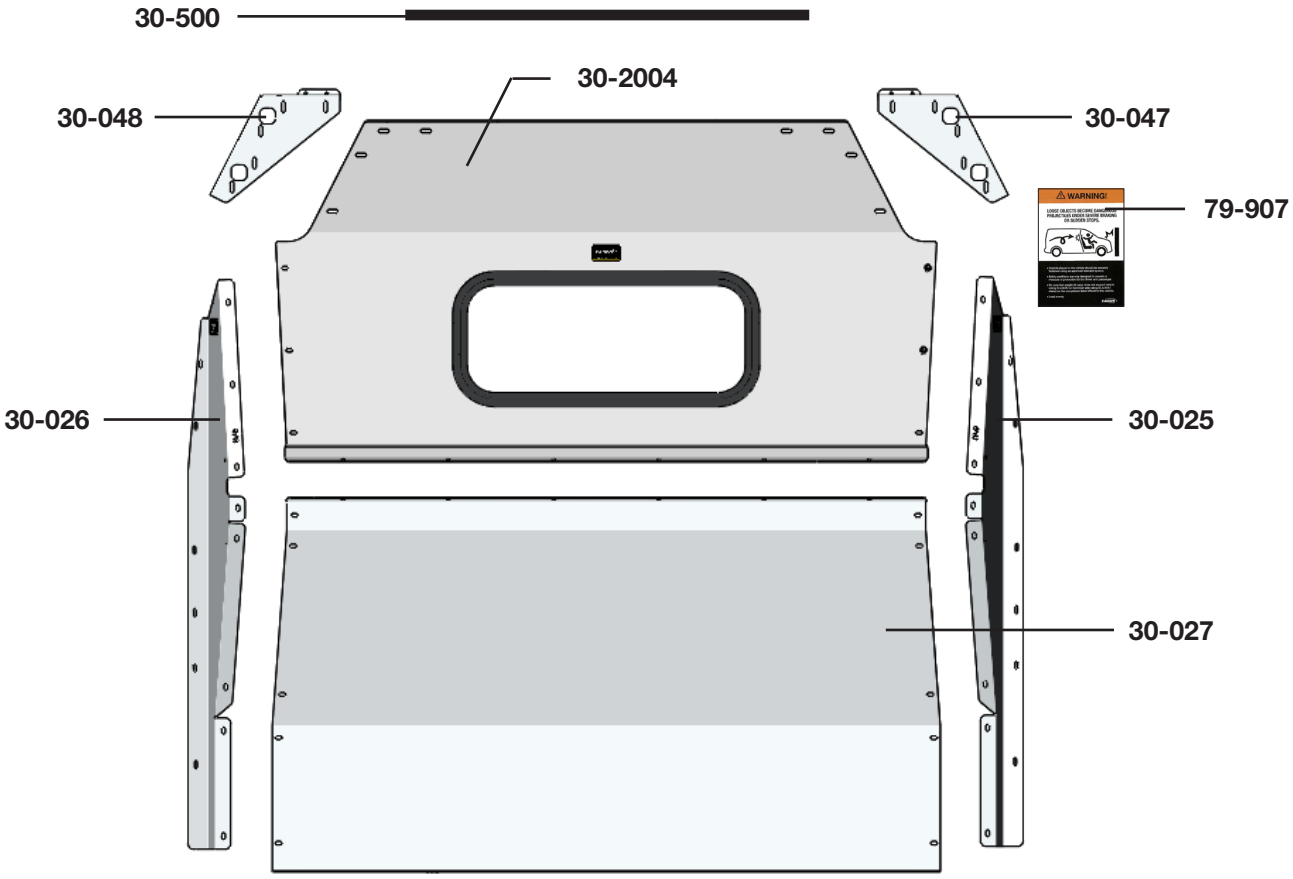
2 PERSONS

- ❑ Cordless Impact
- ❑ Cordless Drill
- ❑ Cutter
- ❑ Mallet
- ❑ Marker
- ❑ Plusnut Tool
- ❑ Tape Measure
- ❑ 3/8" Drill Bit
- ❑ 7/16" Socket
- ❑ 1/2" Socket
- ❑ 9/16" Wrench
- ❑ 10mm 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.

Item No.	Description	Qty.
30-025	Passenger Side Wing	1
30-026	Driver Side Wing	1
30-027	Lower Panel	1
30-047	Passenger Side Ceiling Bracket	1
30-048	Driver Side Ceiling Bracket	1
30-500	Edge Trim (QTY in Inches)	21
79-907	Warning Label	1
30-2004	Upper Panel w/ Window	1
94-3019	Assembly Fastener Bag	1
96-3011	Installation Fastener Bag	1

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

Assembly Fastener Bag

6×		**# 90-204**	Hex Bolt 5/16"-18 × 3/4" GR-5 ZINC
24×		**# 90-484**	Carriage Bolt 5/16"-18 × 5/8" ZINC
30×		**# 94-116**	Serrated Nut 5/16"-18 ZINC
6×		**# 98-116**	Flat Washer 5/16", 7/8" OD ZINC

Hardware Assembly

6×

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

24×

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

Installation Fastener Bag

9×		**# 90-118**	Hex Bolt 1/4"-20 × 1-1/4" GR-5 ZINC
5×		**# 90-971**	Hex Bolt M6-1.0 × 20mm 1022 BO
9×		**# 94-130**	Plusnut .250
9×		**# 98-112**	Flat Washer 1/4", 3/4" OD ZINC
9×		**# 98-118**	Lock Washer Regular 1/4" ZINC

Hardware Assembly

9×

#90-118 Hex Bolt 1/4" × 1-1/4"
#98-118 Lock Washer
#98-112 Flat Washer
#94-130 Plusnut .250

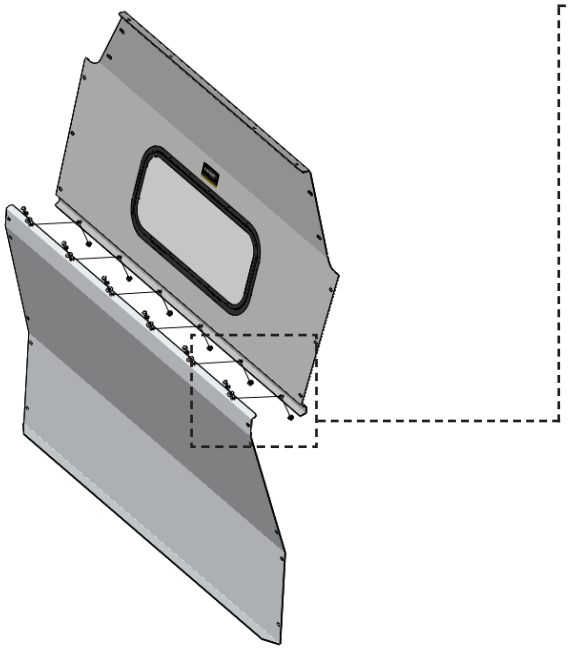
5×

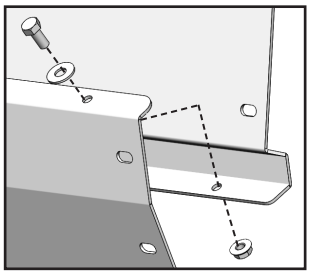
#90-971 Hex Bolt M6-1.0 × 20mm

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

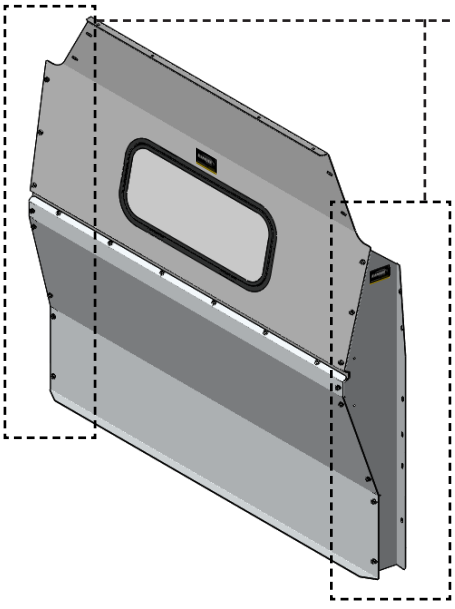
- ❑ Cordless Impact
- ❑ 1/2" Socket

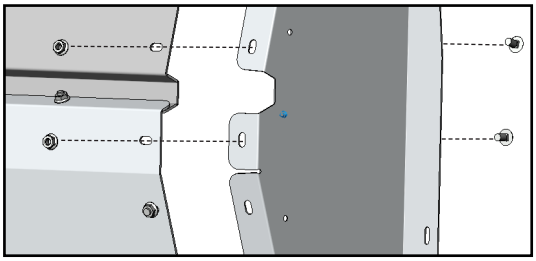
HARDWARE USED

6×

	#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

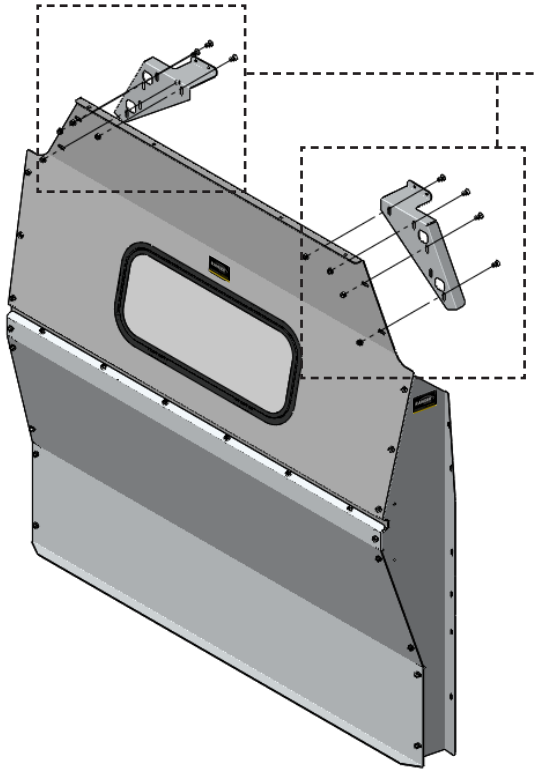
- ❑ Cordless Impact
- ❑ 1/2" Socket

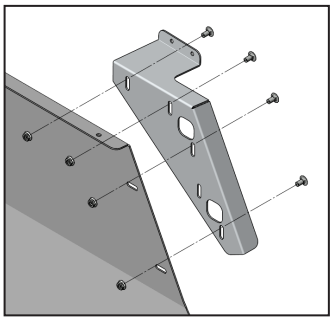
HARDWARE USED

16×

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

1.2.3 Attach the passenger and driver side ceiling brackets on the upper panel.





TOOLS

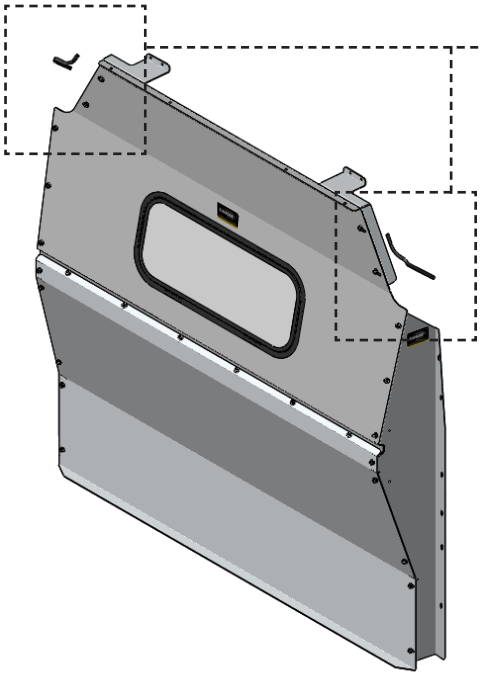
- ❑ Cordless Impact
- ❑ 1/2" Socket

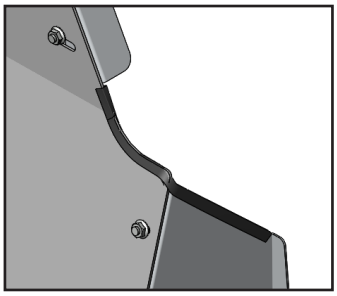
HARDWARE USED

8×

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

1.2.4 Attach the edge trims on these locations.





TOOLS

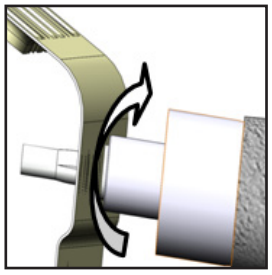
- ❑ Mallet
- ❑ Cutter

PHASE 2 – INSTALLATION

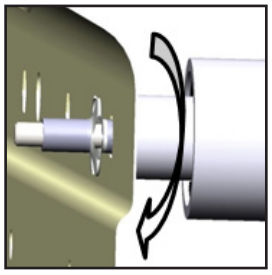
2.1 TIPS ON HOW TO ATTACH A PLUSNUT

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

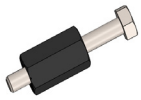


REVERSE

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.

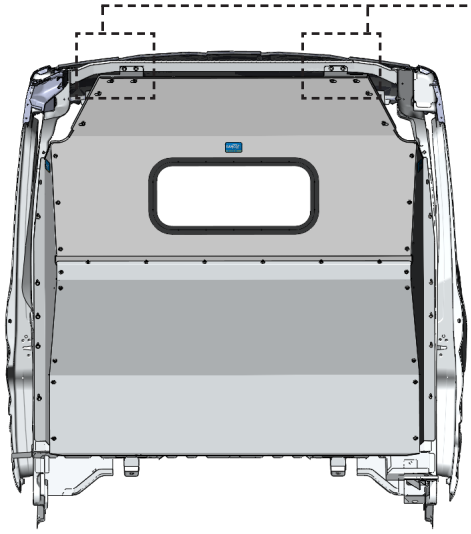
FORWARD

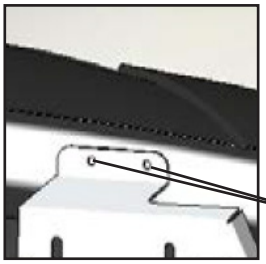
REVERSE

PHASE 2 – INSTALLATION

2.2 VEHICLE PREPARATION

2.2.1 Ceiling preparation.





Lift the assembled partition inside the van and put it in place, then put 4 marks on the van through the holes of the driver and passenger side ceiling brackets.

TOOLS
- ❑ Marker

Put the assembled partition on the side, then drill the 4 marks using the 3/8" drill bit or step drill.

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

Attach plusnuts in the 4 holes.

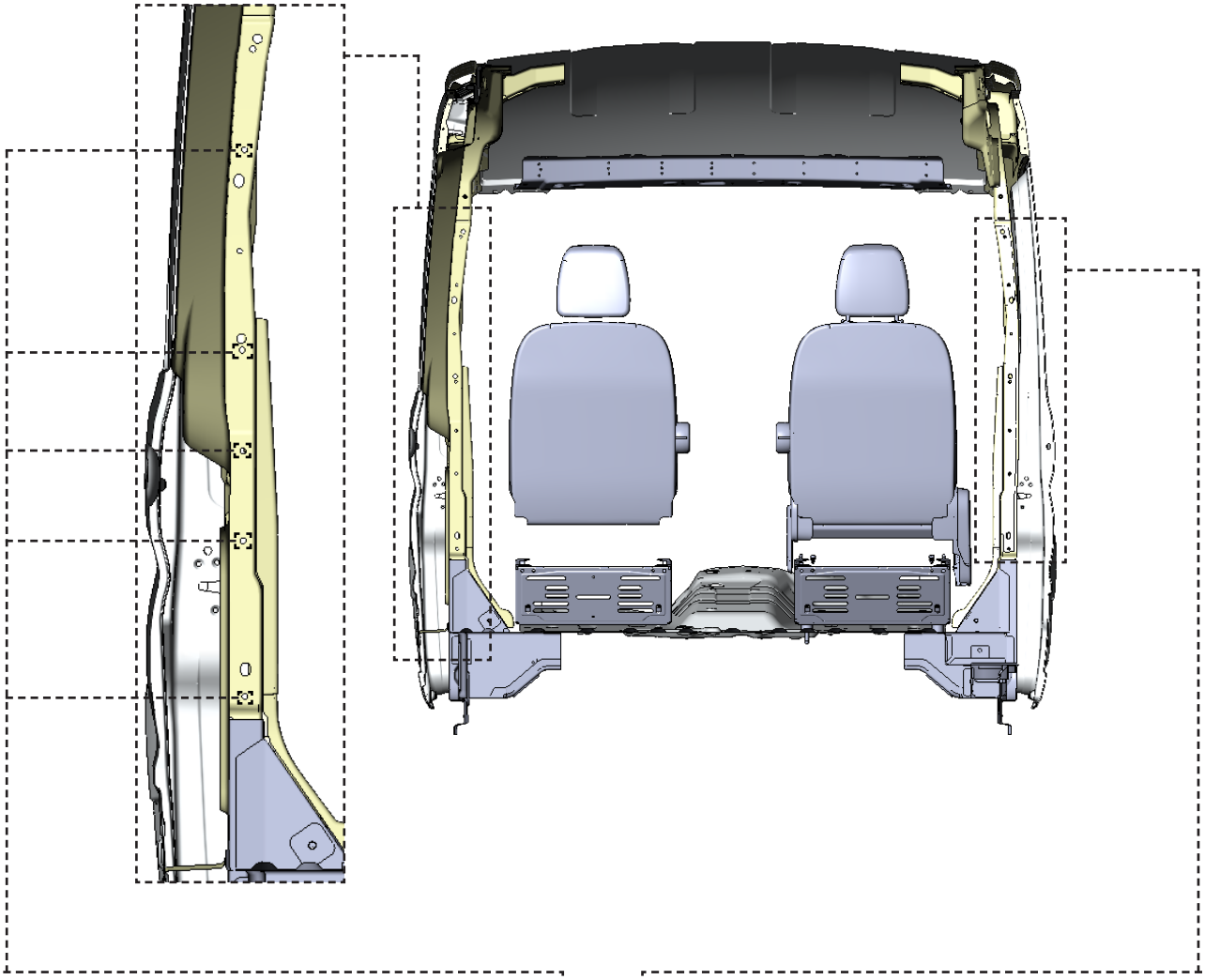
TOOLS
- ❑ Plusnut Tool

HARDWARE USED

4×

94-130
Plusnut .250

2.2.2 Driver and passenger sides preparation.



Attach plusnuts on the five factory holes.

TOOLS

❑ Plusnut Tool

HARDWARE USED

5×

 # 94-130
Plusnut .250

Remove the factory handle in the van.

TOOLS

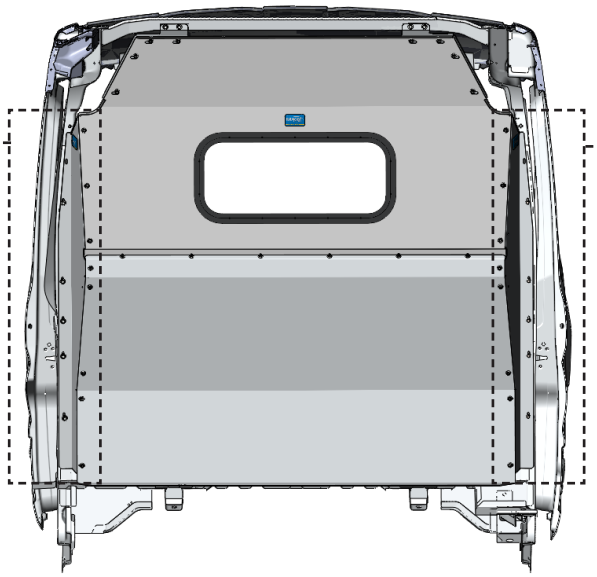
❑ Cordless Impact

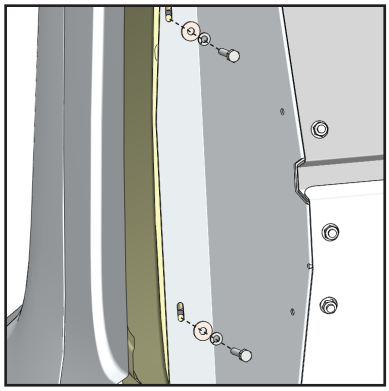
❑ 10mm Socket

PHASE 2 – INSTALLATION

2.3 CONTOURED PARTITION INSTALLATION

2.3.1 Attach both wings to the van.





TOOLS

- ❑ Cordless Impact
- ❑ 7/16" Socket

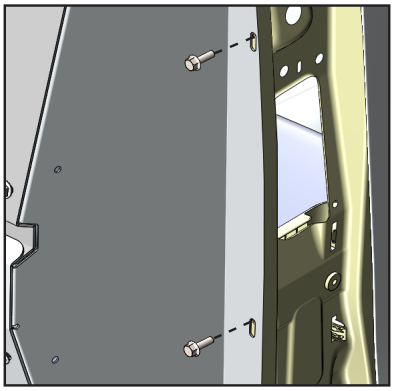
HARDWARE USED

5×

#90-118 Hex Bolt 1/4" × 1-1/4"

#98-118 Lock Washer

#98-112 Flat Washer



TOOLS

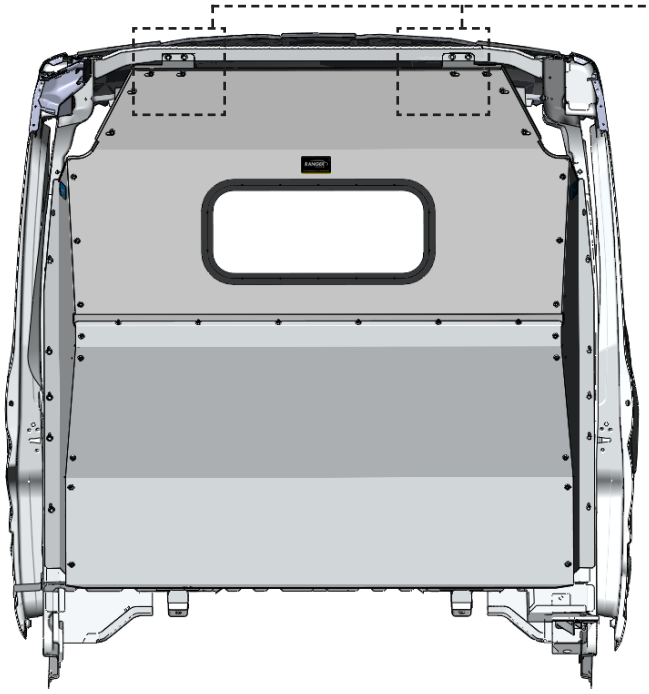
- ❑ Cordless Drill
- ❑ 10mm Socket

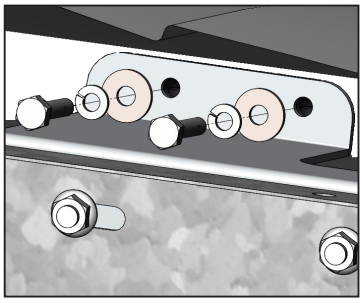
HARDWARE USED

5×

#90-971 Hex Bolt M6-1.0 × 20mm

2.3.2 Attach the driver and passenger side ceiling brackets to the van.





TOOLS

- ❑ Cordless Impact
- ❑ 7/16" Socket

HARDWARE USED

4×

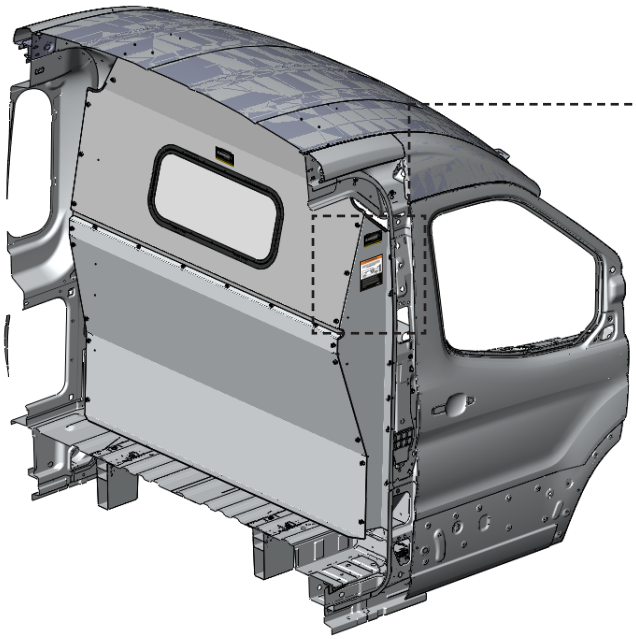
#90-118 Hex Bolt 1/4" × 1-1/4"

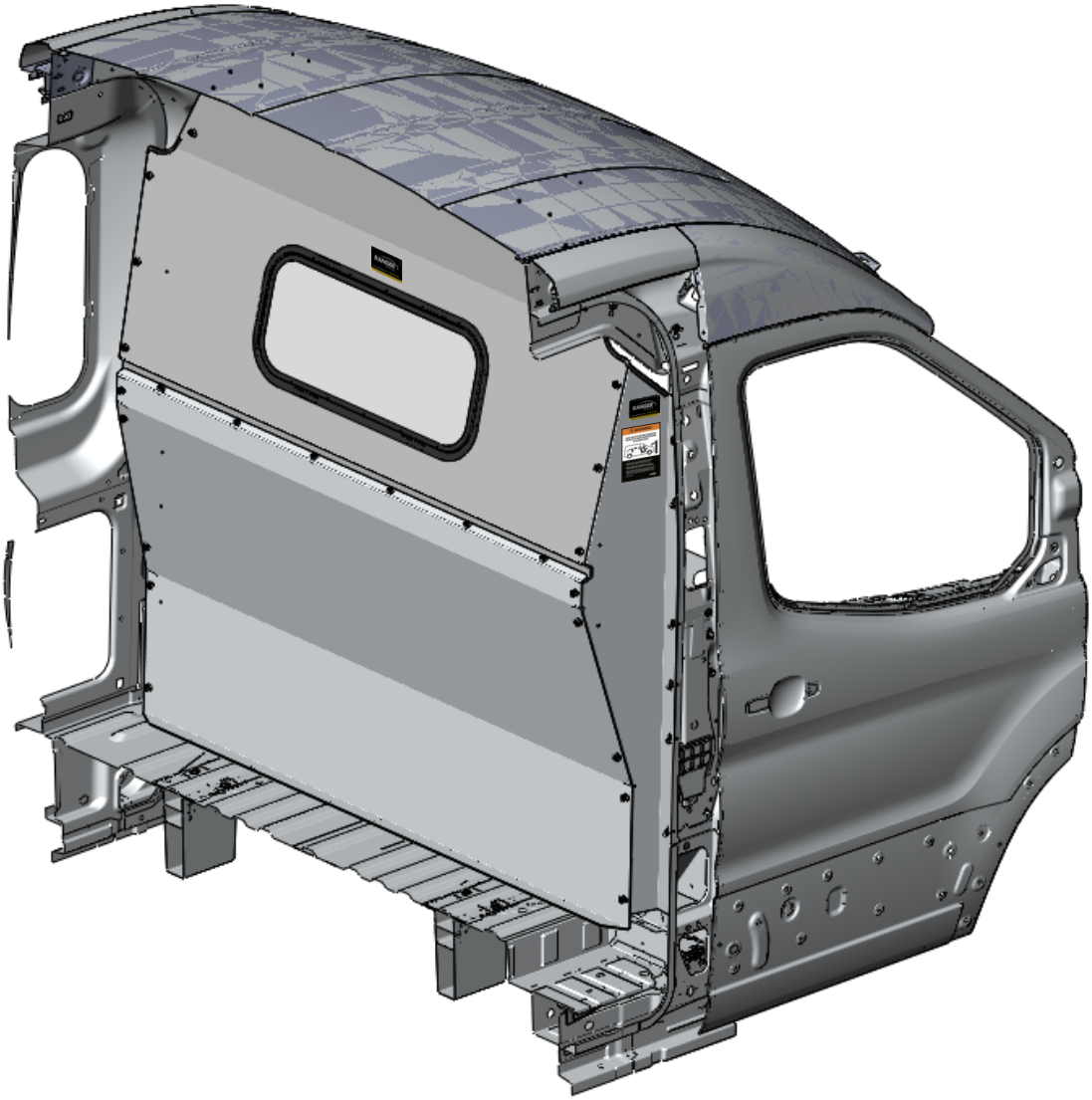
#98-118 Lock Washer

#98-112 Flat Washer

2.3.3 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