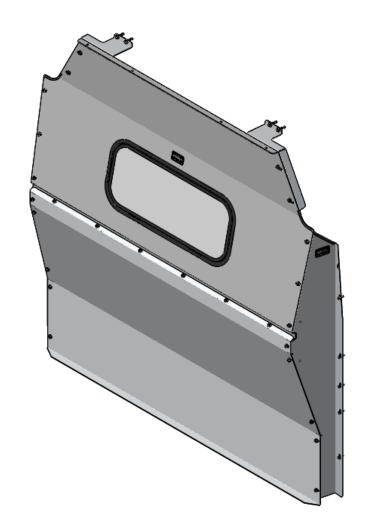
INSTALLATION GUIDE



3020-FTM CONTOURED PARTITION

Transit Partition (Polycarbonate Window, Aluminum)



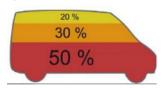




READ, UNDERSTAND, AND FOLLOW ALL WARNINGS AND INSTRUCTIONS BEFORE USING THIS PRODUCT.
FAILURE TO FOLLOW THESE DIRECTIONS MAY RESULT IN PROPERTY DAMAGE, SERIOUS BODILY INJURY,
AND/OR DEATH. RANGER DESIGN IS NOT RESPONSIBLE FOR ANY PROPERTY DAMAGE, PERSONAL INJURY,
OR DEATH THAT OCCURRED WHILE USING ANY RANGER DESIGN PRODUCTS.



- 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.



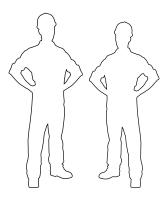
- Drilling is required to complete this installation. Before drilling, ensure that you will not hit any critical parts of the
 vehicle like the gas tank, wiring harness, or hose. Consult the vehicle OEM documentation as necessary. When
 drilling, use a drill collar to reduce the risk of damage to the 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

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REQUIRED ITEMS

- □ 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
- □ Drill Stop

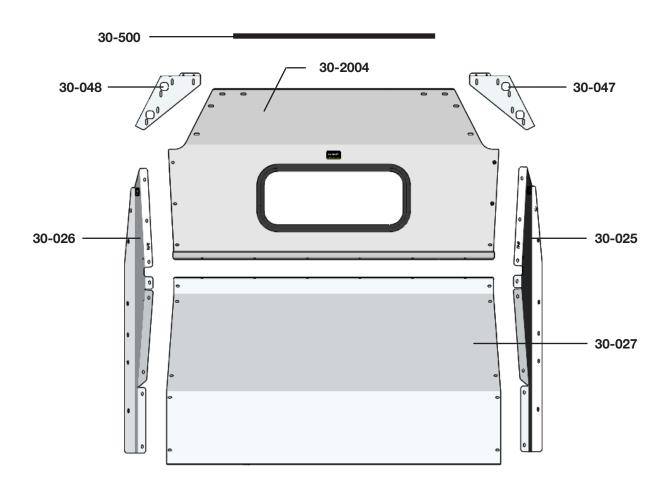


2 PERSONS

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.
30-025	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
79-932	Warning Label - Bilingual	1
30-2004	Upper Panel w/ Window	1
94-3019	Assembly Fastener Bag	1
96-3011	Installation Fastener Bag	1

Assembly Fastener Bag

Hardware Assembly



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

6×



#90-204 Hex Bolt 5/16" × 3/4"

 \bigcirc

#98-116 Flat Washer



#94-116 Serrated Nut

24×



#90-484 Carriage Bolt 5/16" × 5/8"

#94-116 Serrated Nut

Installation Fastener Bag



90-118

Hex Bolt 1/4"-20 × 1-1/4" **GR-5 ZINC**



90-971

Hex Bolt M6-1.0 × 20mm 1022 BO



90-983

Double Ended Screw 1/4 - 20 UNC × 1.125" LONG ZINC

5x



94-100

Hex Nut 1/4" - 20 ZINC

9x



94-130

Plusnut .250

9x



98-112

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

9x



98-118

Lock Washer Regular 1/4" ZINC

Hardware Assembly

4×



#90-118 Hex Bolt 1/4" x 1-1/4"

6 (0)

#98-118 Lock Washer #98-112 Flat Washer



#94-130 Plusnut .250

5×



#90-971 Hex Bolt M6-1.0 × 20mm

5×



#94-100 Hex Nut 1/4" - 20



#98-118 Lock Washer



#98-112 Flat Washer



#90-983 Short Double Ended Bolt

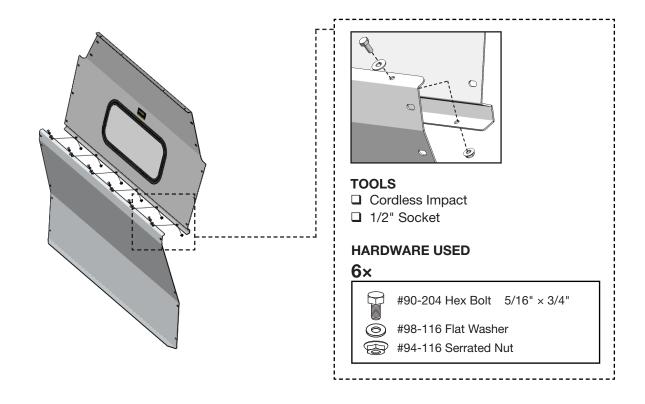
#94-130 Plusnut .250



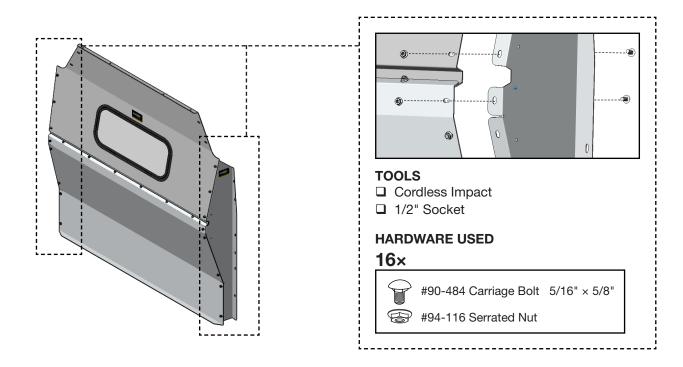
PHASE 1 - ASSEMBLY

1.2 PARTITION ASSEMBLY

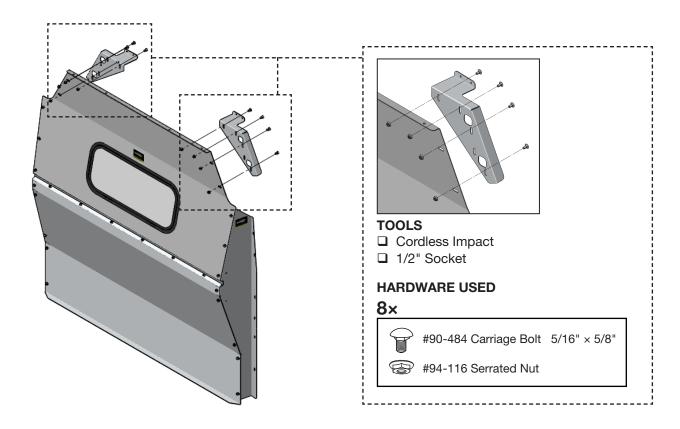
1.2.1 Remove all the PVC from all the parts, then attach the upper panel to the lower panel.



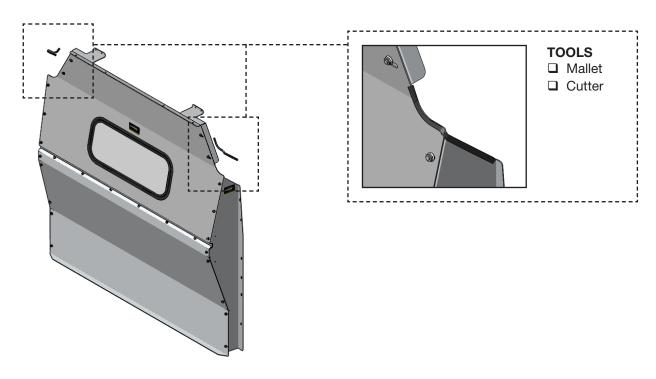
1.2.2 Attach both wings to the upper and lower panels.



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



1.2.4 Attach the edge trims on these locations.

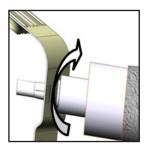


PHASE 2 - INSTALLATION

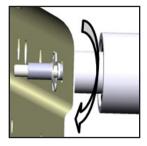
2.1 TIPS ON HOW TO ATTACH A PLUSNUT

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.



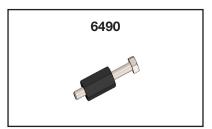
FORWARD



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

0

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

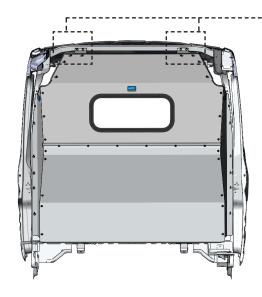


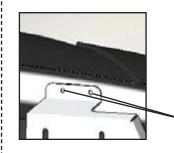
REVERSE

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

MARKS

- ☐ 3/8" Drill Bit or Step Drill
- □ Drill Stop



Attach plusnuts in the 4 holes.

TOOLS

■ Plusnut Tool

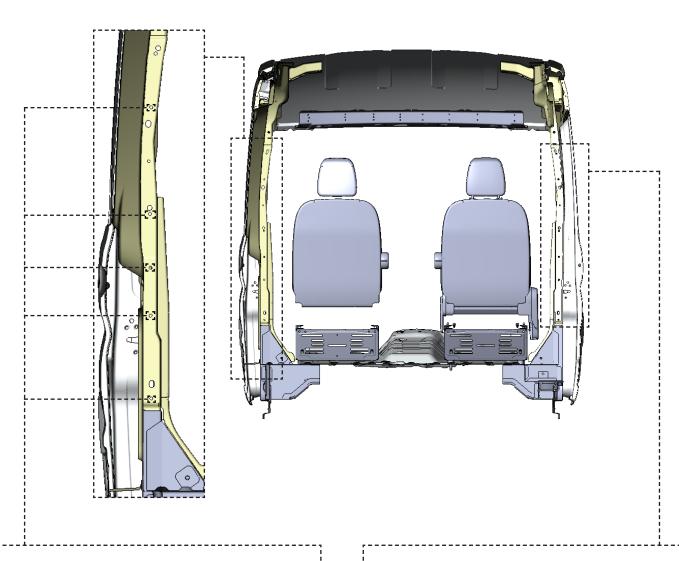
HARDWARE USED

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.

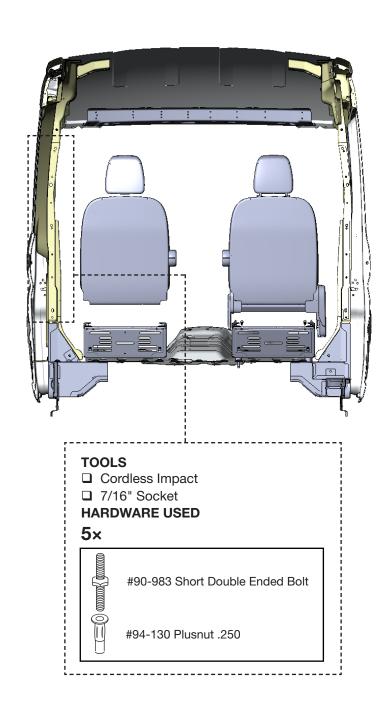


- TOOLS

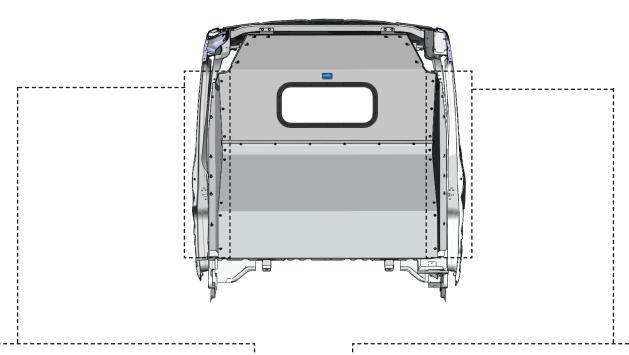
 ☐ Cordless Impact
- ☐ 10mm Socket

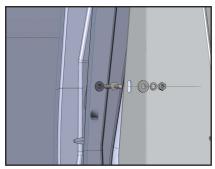
PHASE 2 – INSTALLATION 2.3 CONTOURED PARTITION INSTALLATION

2.3.1 Add double ended bolts and partition spacers to the b-pillar.



2.3.2 Lift and place the partition back on the van, then attach the partition to the van.





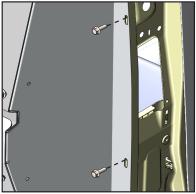
TOOLS

- □ Cordless Impact
- ☐ 7/16" Socket

HARDWARE USED

5×

- #94-100 Hex Nut 1/4" 20
- #98-118 Lock Washer
- #98-112 Flat Washer



TOOLS

- □ Cordless Drill
- ☐ 10mm Socket

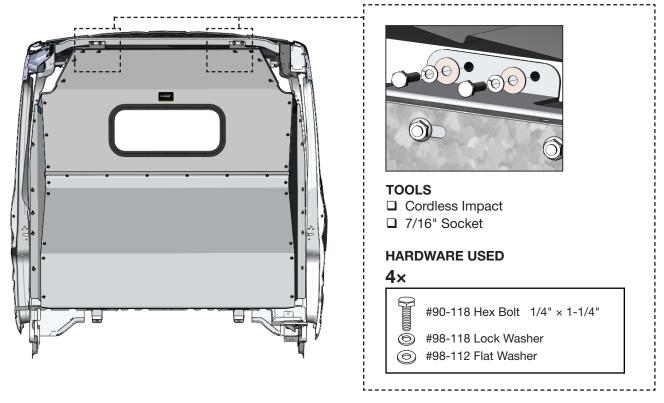
HARDWARE USED

5×



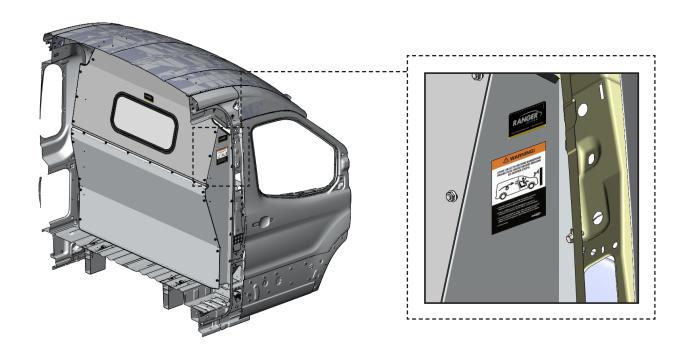
#90-971 Hex Bolt M6-1.0 × 20mm

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



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.



"You have successfully installed your contoured partition, Thank you for doing business with us."

For any feedback or suggestions, you may have, please contact: cs@rangerdesign.com

