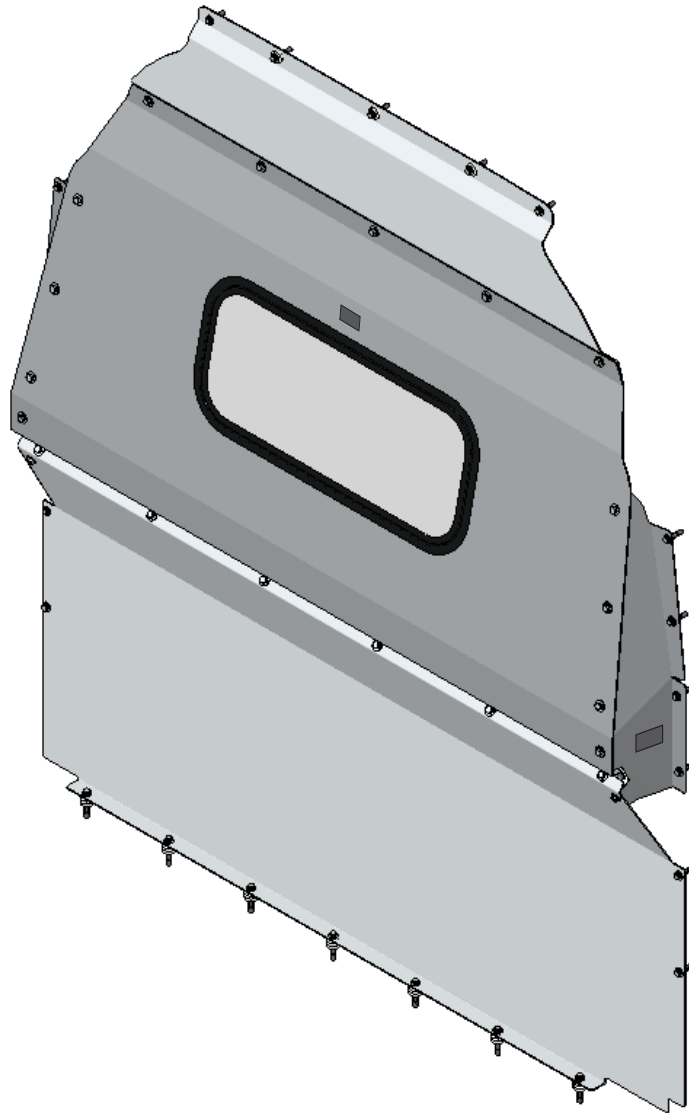


INSTALLATION GUIDE



3020-DH CONTOURED PARTITION

Sprinter (Polycarbonate Window, Aluminum)



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

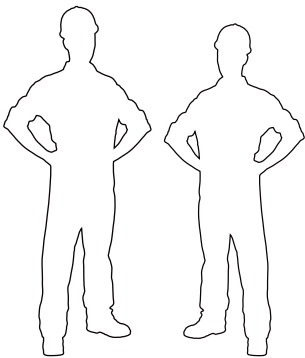
❑ 1.1 Setup.....	4
❑ 1.2 Partition assembly.....	6

Phase 2 - Installation

❑ 2.1 Tips on how to attach a plusnut.....	8
❑ 2.2 Vehicle preparation.....	9
❑ 2.3 Contoured partition installation.....	10

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
- ❑ 1" Hole Saw

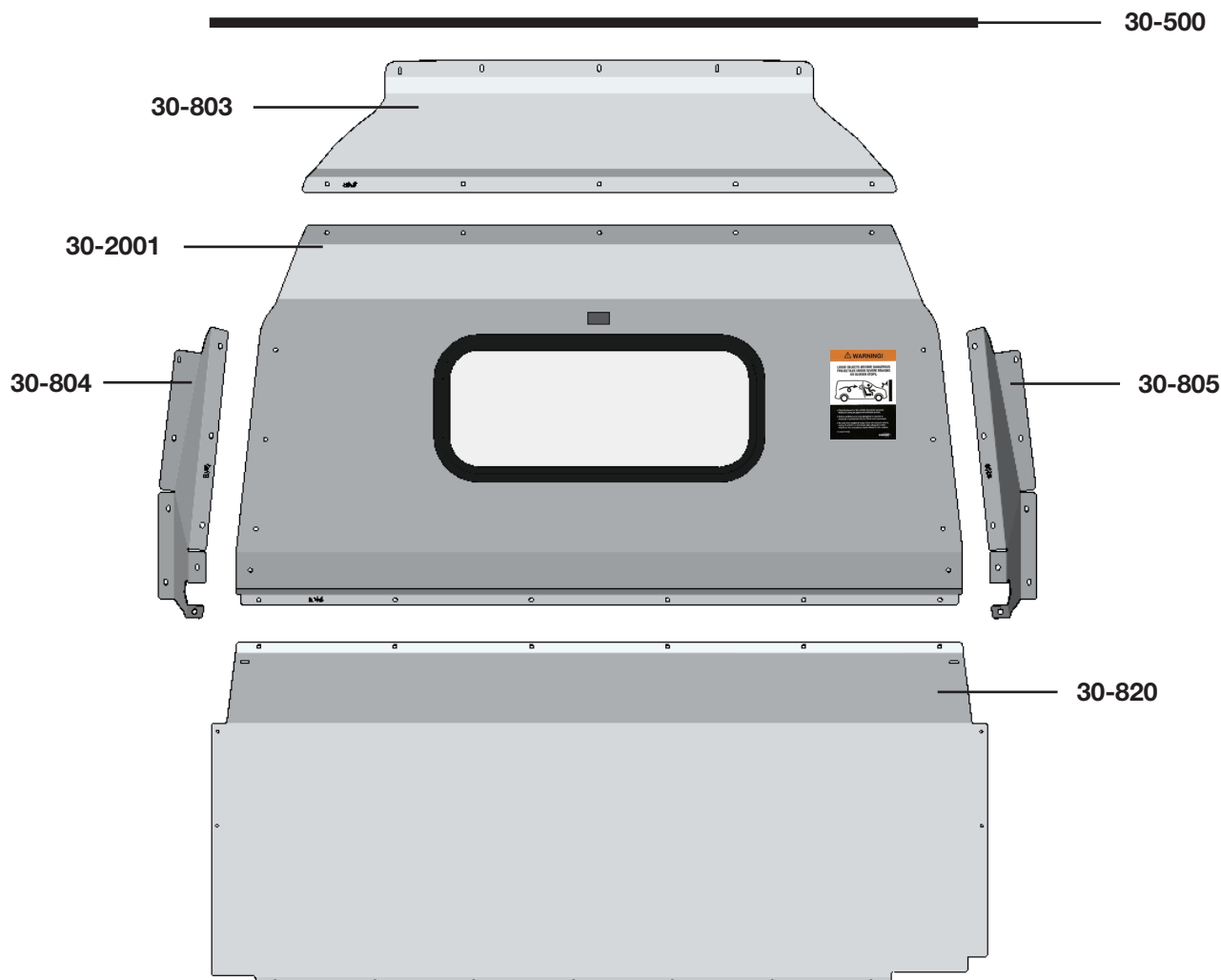


2
PERSONS

PHASE 1 – ASSEMBLY

1.1 SETUP

1.1.1 Unpack components; compare with the bill of materials.

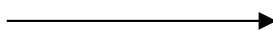


1.1.2 Verify all parts are present.

Item No.	Description	Qty.
30-500	Edge Trim (QTY in Inches)	92
30-803	Top Panel	1
30-804	Driver Side Wing	1
30-805	Passenger Side Wing	1
30-820	Lower Panel	1
79-932	Warning Label - Bilingual	1
30-2001	Upper Panel w/ Window	1
94-3013	Assembly Fastener Bag	1
96-3008	Installation Fastener Bag	1

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

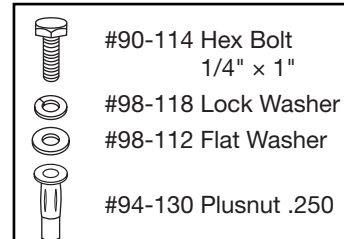
Installation Fastener Bag



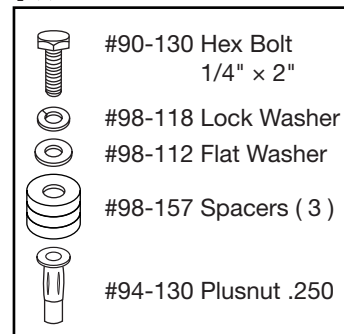
Hardware Assembly

5x		# 90-114	Hex Bolt 1/4" -20 x 1" GR-5 ZINC
7x		# 90-130	Hex Bolt 1/4" -20 x 2" GR-5 ZINC
6x		# 90-983	Double Ended Screw 1/4" - 20 UNC x 1.125" LONG ZINC
6x		# 90-984	Double Ended Screw 1/4" - 20 UNC x 1.750" LONG ZINC
12x		# 94-100	Hex Nut 1/4" - 20 ZINC
24x		# 94-130	Plusnut .250
24x		# 98-112	Flat Washer 1/4", 3/4" OD ZINC
24x		# 98-118	Lock Washer Regular 1/4" ZINC
21x		# 98-157	Spacer 0.375" ID, x 1.0" OD x 0.25" L NYLON
6x		# 98-180	Partition Spacer 0.688" LONG NYLON, BLACK
6x		# 98-181	Partition Spacer 1.250" LONG NYLON, BLACK

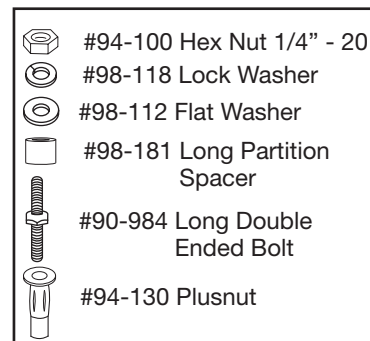
5x



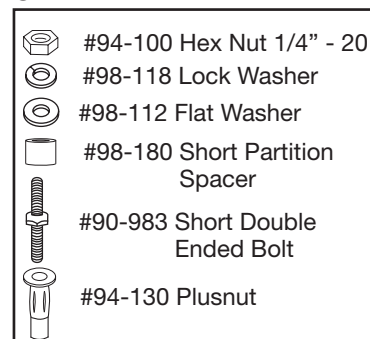
7x



6x



6x



Assembly Fastener Bag




Hardware Assembly

21x  **# 90-204** Hex Bolt
5/16"-18 x 3/4"
GR-5 ZINC

21x  **# 94-116** Serrated Nut
5/16"-18
ZINC

21x  **# 98-116** Flat Washer
5/16", 7/8" OD
ZINC

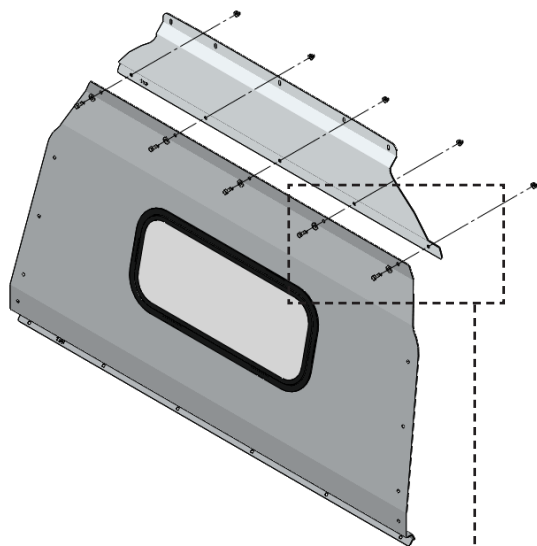
21x

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

PHASE 1 – ASSEMBLY

1.2 PARTITION ASSEMBLY

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






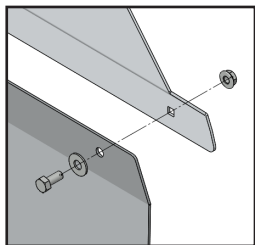
TOOLS

- ☐ Cordless Impact
- ☐ 1/2" Socket

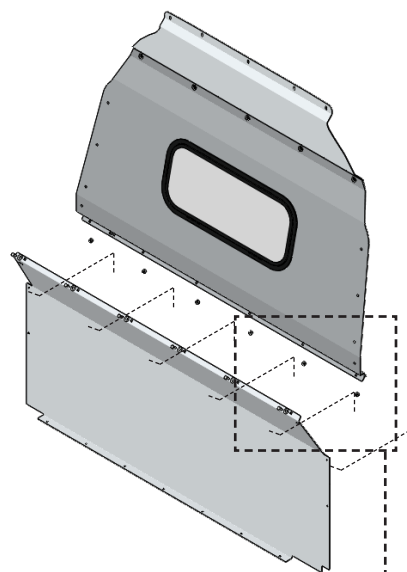
HARDWARE USED

5x

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



1.2.2 Attach the upper panel to the lower panel.






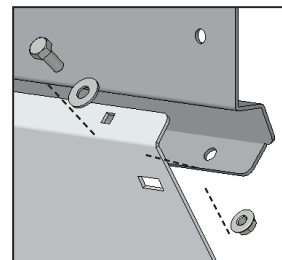
TOOLS

- ☐ Cordless Impact
- ☐ 1/2" Socket

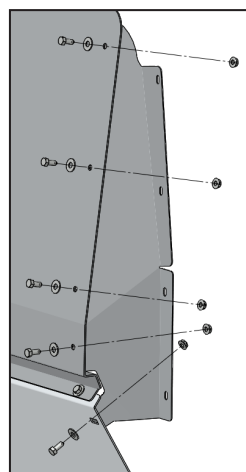
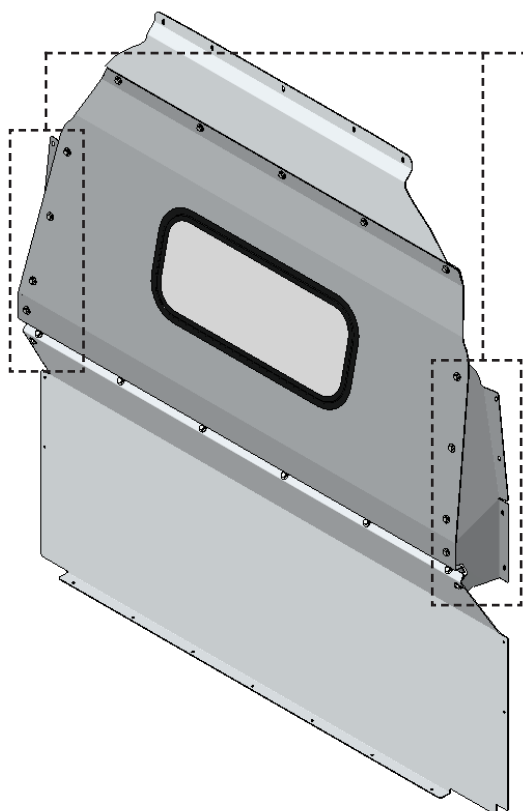
HARDWARE USED

6x

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



1.2.3 Attach both wings to the upper and lower panels.



TOOLS

- Cordless Impact
- 1/2" Socket

HARDWARE USED

10x



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

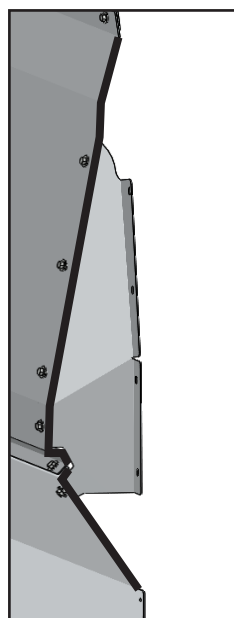
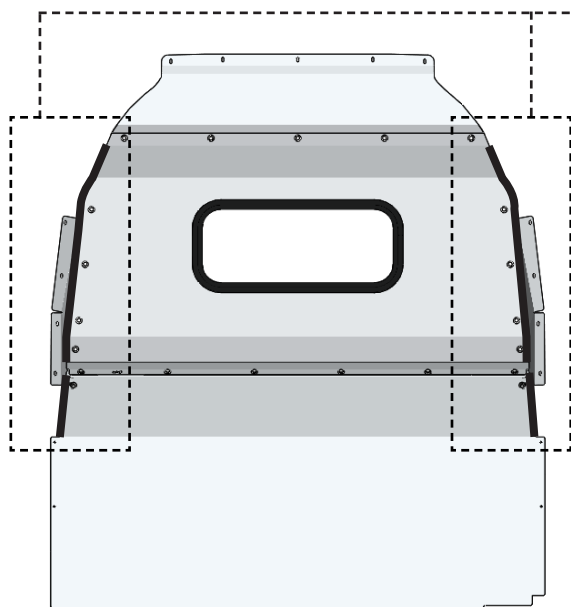


#98-116 Flat Washer



#94-116 Serrated Nut

1.2.4 Attach the edge trims along both sides of the upper and lower panels.



TOOLS

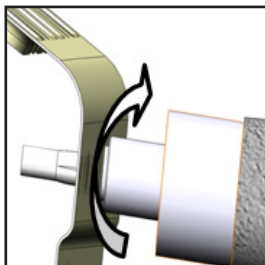
- Mallet
- Cutter

PHASE 2 – INSTALLATION

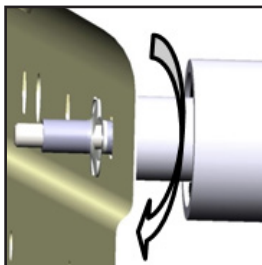
2.1 TIPS ON HOW TO ATTACH A PLUSNUT

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

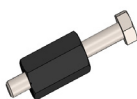


REVERSE



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

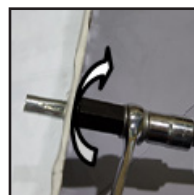
TIPS STEP 1:

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

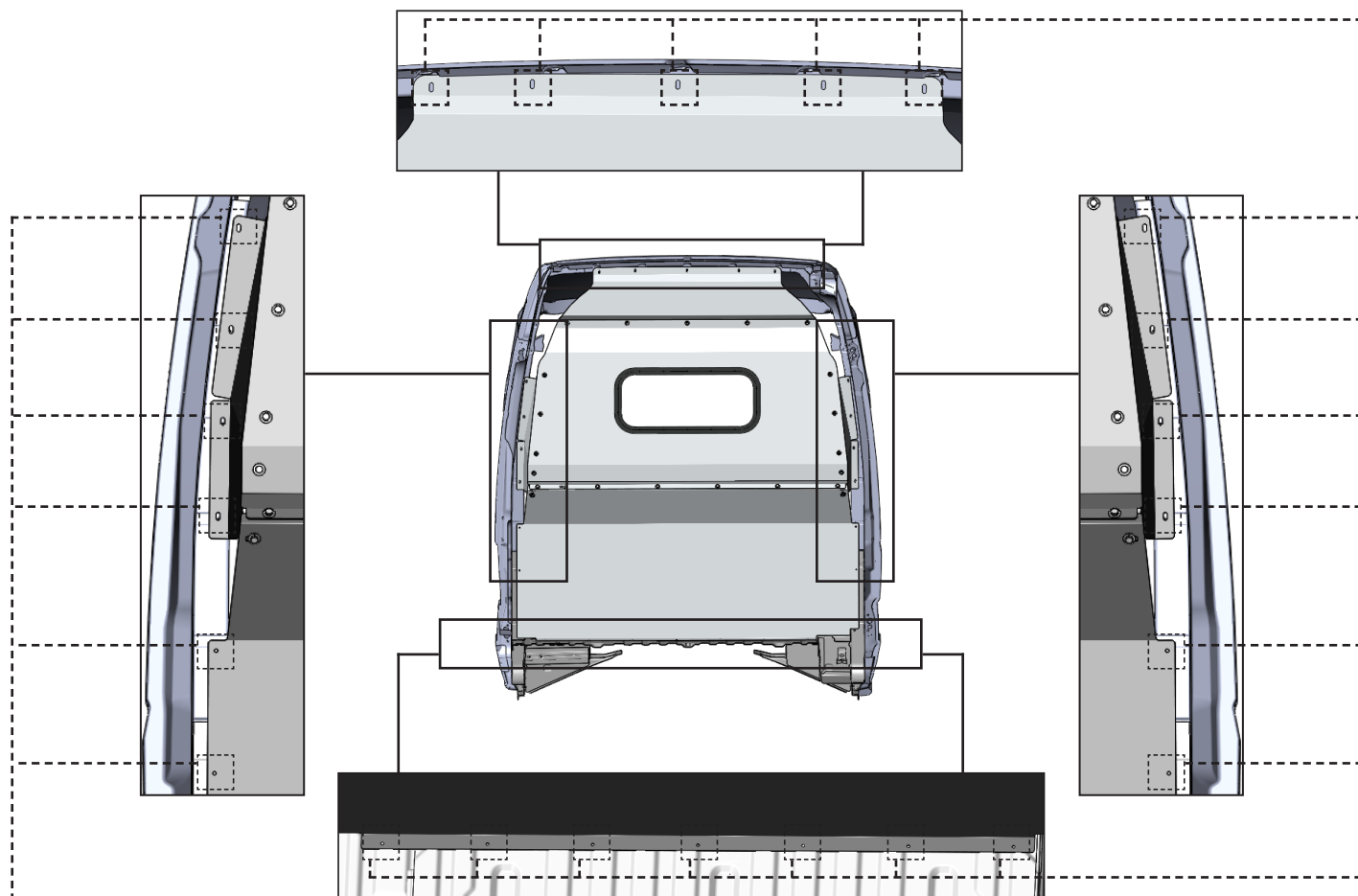


REVERSE

PHASE 2 – INSTALLATION

2.2 VEHICLE PREPARATION

2.2.1 Attaching plusnuts.



Put the assembled partition in place, then mark all the holes through the van.

- NOTE:**
- For the B-pillar plastic cover and wood floor use 1" hole saw to drill a hole in the B-pillar plastic cover or wood floor, then drill 3/8" hole in the van.
 - Enlarge all the holes in the van that align with the holes of the partition using 3/8" drill bit or step drill.

TOOLS

- ☐ Cordless Drill ☐ 3/8" Drill Bit or Step Drill ☐ 1" Hole Saw

Attach a plusnuts in the holes.

TOOLS

- ☐ Plusnut Tool

HARDWARE USED

24x



94-130
Plusnut .250

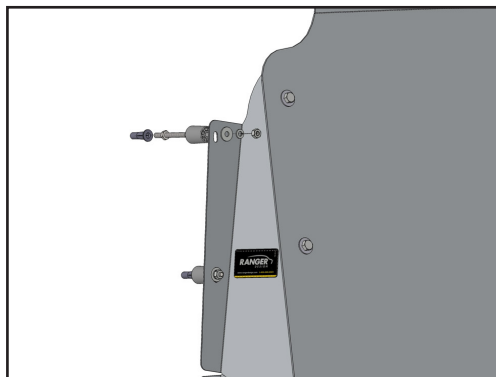
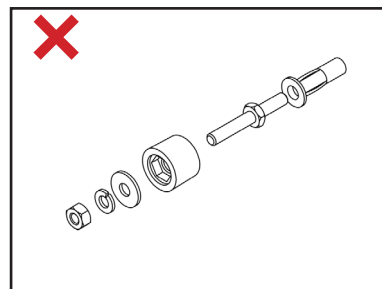
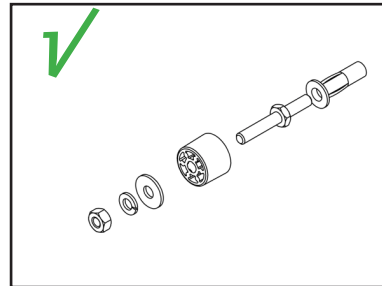
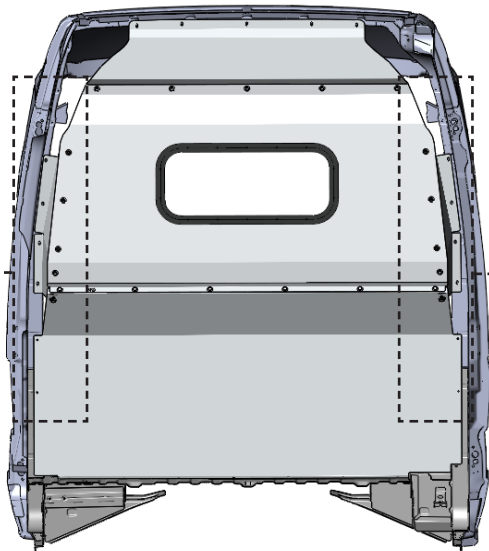


PHASE 2 – INSTALLATION

2.3 CONTOURED PARTITION INSTALLATION

2.3.1 Bolt both sides of the partition in the van.

NOTE: If the plastic partition trim is not installed around the b-pillars, then omit the spacers during the installation steps.









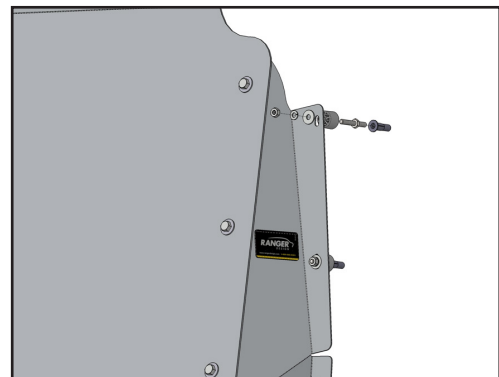
TOOLS

- ☐ Cordless Impact
- ☐ 7/16" Socket

HARDWARE USED

6x

-  #94-100 Hex Nut 1/4" - 20
-  #98-118 Lock Washer
-  #98-112 Flat Washer
-  #98-181 Long Partition Spacer
-  #90-984 Long Double Ended Bolt
-  #94-130 Plusnut









TOOLS

- ☐ Cordless Impact
- ☐ 7/16" Socket

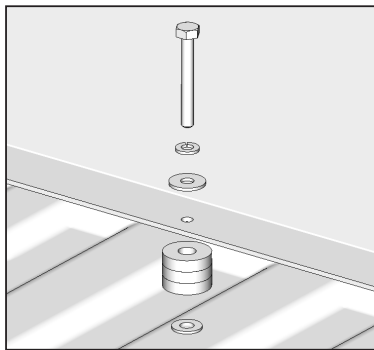
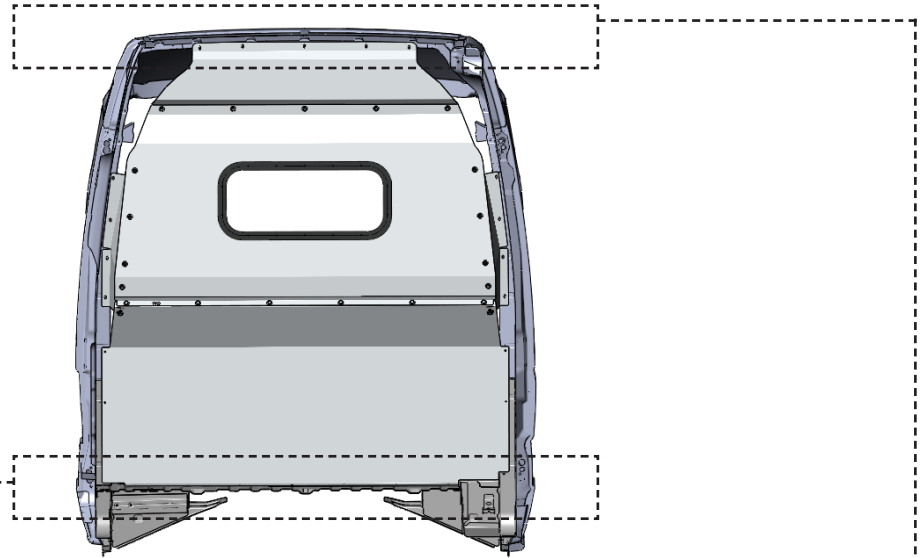
HARDWARE USED

6x

-  #94-100 Hex Nut 1/4" - 20
-  #98-118 Lock Washer
-  #98-112 Flat Washer
-  #98-180 Short Partition Spacer
-  #90-983 Short Double Ended Bolt
-  #94-130 Plusnut

2.3.2 Attach the upper panel and lower panel to the van.

NOTE: Use spacers to make the floor level, if you have a rubber or wood floor use 2 to 3 spacers to make the floor level.



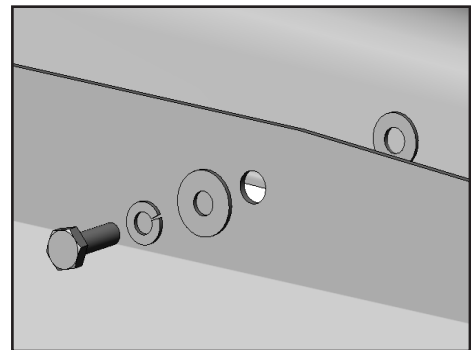
TOOLS

- ☐ Cordless Impact
- ☐ 7/16" Socket

HARDWARE USED

7x

-  #90-130 Hex Bolt 1/4" x 2"
-  #98-118 Lock Washer
-  #98-112 Flat Washer
-  #98-157 Spacers (3)



TOOLS

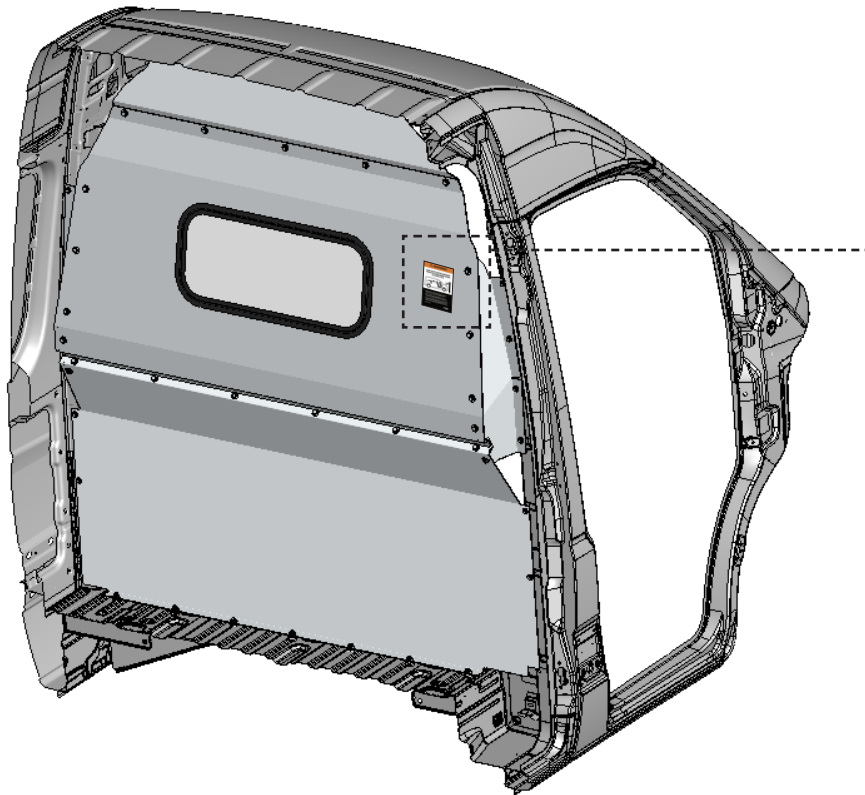
- ☐ Cordless Impact
- ☐ 7/16" Socket

HARDWARE USED

5x

-  #90-114 Hex Bolt 1/4" x 1"
-  #98-118 Lock Washer
-  #98-112 Flat Washer

2.3.3 Apply the warning label on the upper panel.



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