INSTALLATION GUIDE



N5-RA96-4 Shelving (ALUMINUM)

Transit High Roof & Medium Roof
Promaster Standard Roof & High Roof
Nissan NV High Roof
Box Truck / Trailer
Sprinter RWB, LWB, XWB

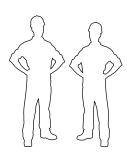


QUICK START GUIDE

Phase 1 - Assembly

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REQUIRED ITEMS



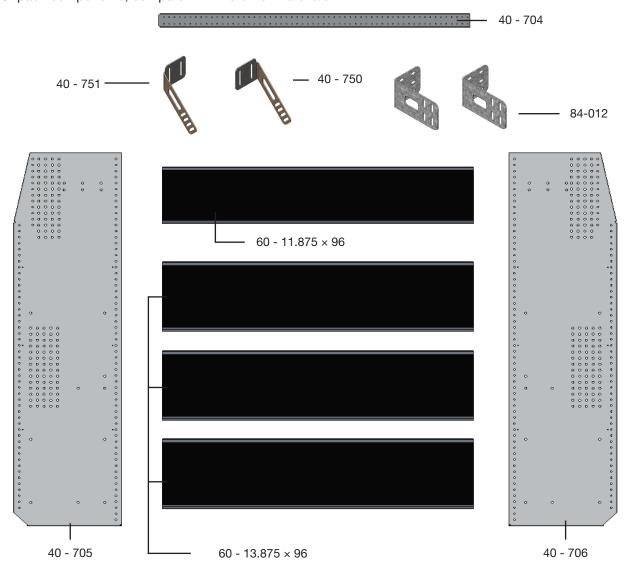
2 PERSONS

_	Oordiess impact
	Cordless Drill
	Tape Measure
	Marker
	1/2" Socket
	1/2" Drill Bit w/ Drill Collar (Set at 1/2")
	3/8" Driver Bit
	Knife
	Plusnut Tool / Plusnut Gun (5/16")

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

Description	Qty.
Center Post	1
Bracket, N5 Series, Right	1
Bracket, N5 Series, Left	1
Foldaway bracket - middle	2
End Panel (Left)	1
End Panel (Right)	1
Shelf Tray, Black Plywood, Usable 12" × 96"	1
Shelf Tray, Black Plywood, Usable 14" × 96"	3
Assembly Fastener Kit	1
Install Fastener Kit	1
	Center Post Bracket, N5 Series, Right Bracket, N5 Series, Left Foldaway bracket - middle End Panel (Left) End Panel (Right) Shelf Tray, Black Plywood, Usable 12" × 96" Shelf Tray, Black Plywood, Usable 14" × 96" Assembly Fastener Kit

1.1.3 Fastener kits.

8×

8×

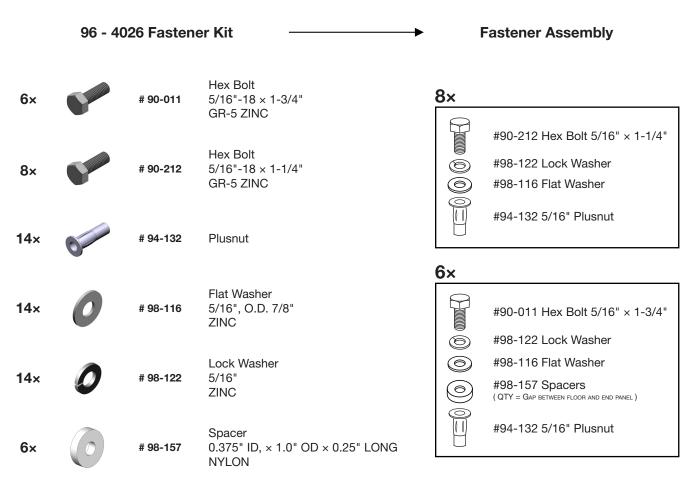
94 - 4026 Fastener Kit **Fastener Assembly** 8x Hex Bolt # 90-204 5/16"-18 × 3/4" 8× **GR-5 ZINC** #90-204 Hex Bolt 5/16" × 3/4" (O) #98-116 Flat Washer Screw HFH 8× # 92-200 #10 - 16 × 3/4" #94-116 Serrated Nut ZINC 8x Screw HWH 32× # 92-102 #14 × 1" ZINC #92-200 Screw #10 - 16 × 3/4"

Serrated Nut 5/16"-18

ZINC

94-116



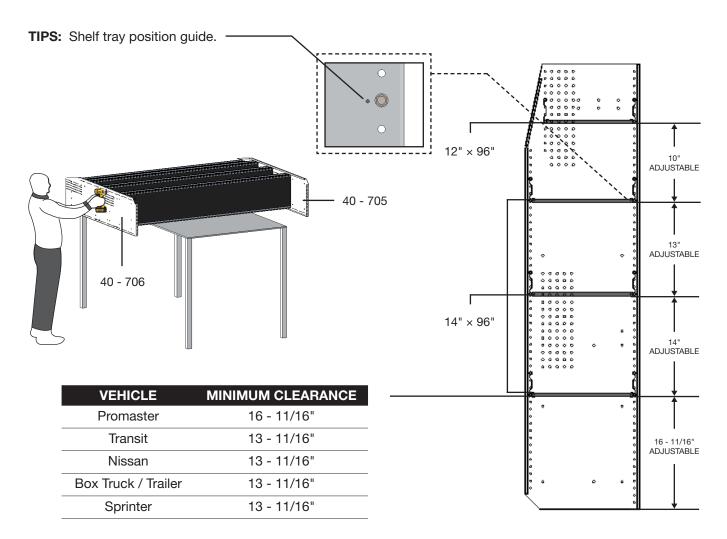


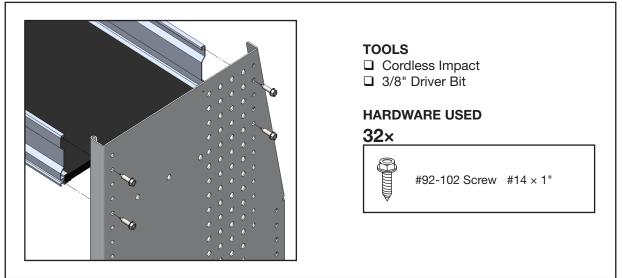
PHASE 1 - ASSEMBLY

1.2 SHELF ASSEMBLY

1.2.1 Attach both panels to the shelf trays.

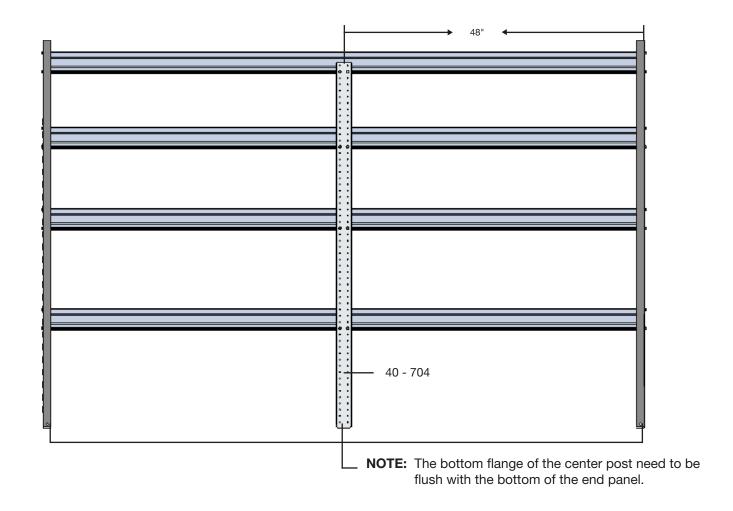
NOTE: You can adjust the bottom shelf location to maximize or minimize your space over the wheel.

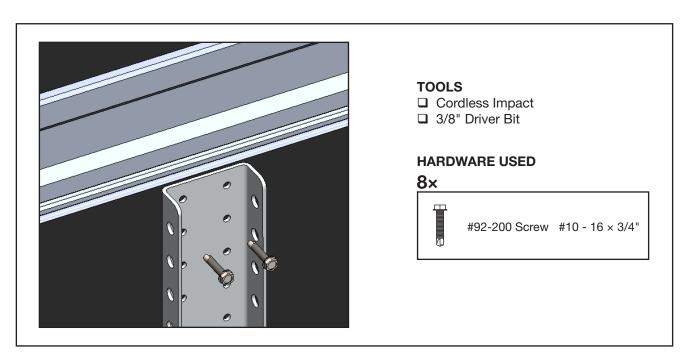




1.2.2 Attach the center post to the center front face of the shelf.

IMPORTANT: The center post should be attached in the center of the shelf.

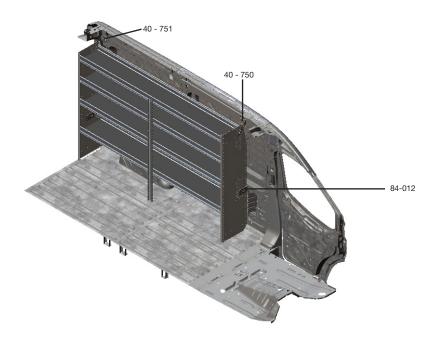


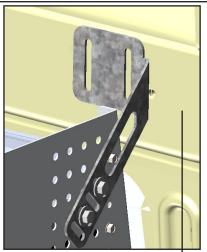


2.1 ATTACH WALL BRACKETS TO THE END PANELS

IMPORTANT: For all **Box Trucks**, make sure that the shelving is securely fastened to the structure of the truck.

- **2.1.1** Lift the assembled shelf to the vehicle, then put it in place.
 - Attach the brackets to the panels aligning the brackets to the horizontal rim of the vehicle.





Attach the brackets to the panels aligning the brackets to the horizontal rim of the vehicle.

TOOLS

- □ Cordless Impact
- ☐ 1/2" Socket

HARDWARE USED

8× HAND-TIGHTEN THE BOLTS



#90-204 Hex Bolt $5/16" \times 3/4"$

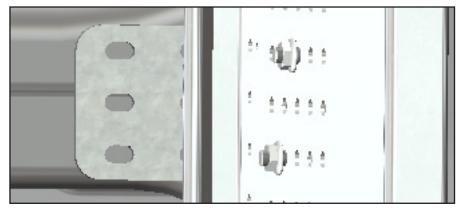


#98-116 Flat Washer



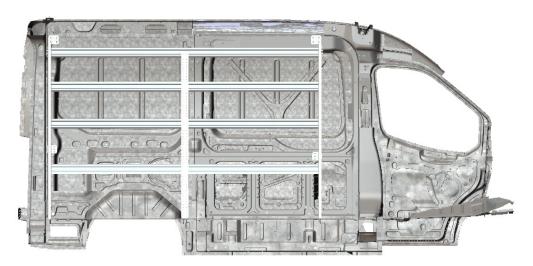
#94-116 Serrated Nut

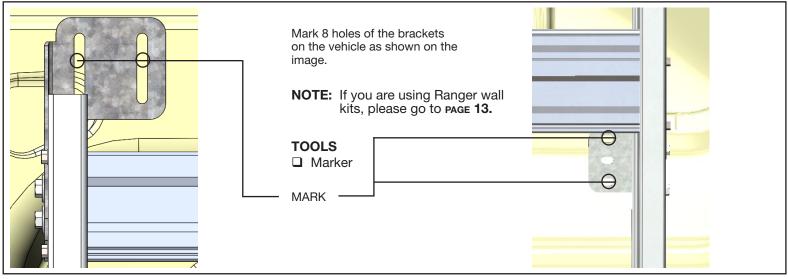


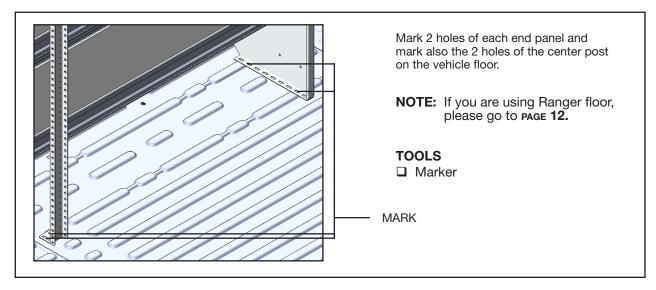


2.2 MARK HOLES FOR PLUS NUTS

2.2.1 After attaching the brackets mark the holes on the brackets, end panels and center post to the vehicle.





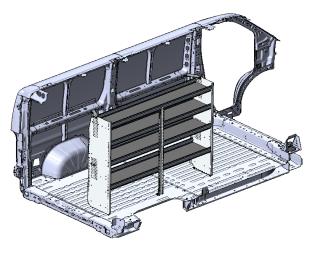


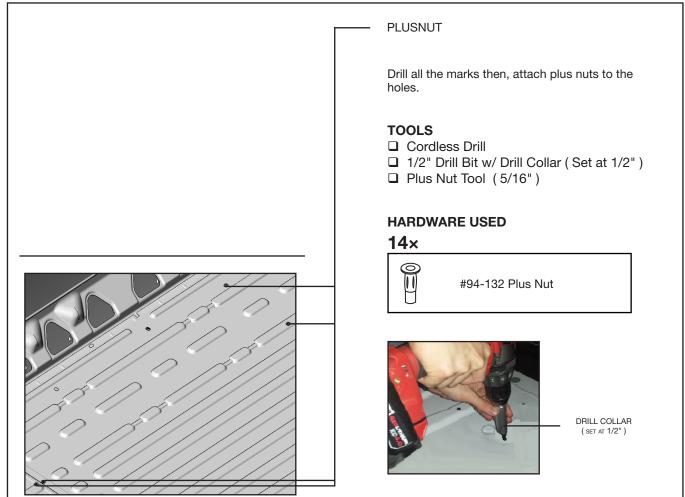
2.3 ATTACH PLUS NUTS

- **2.3.1** Lift the assembled shelf on the side.
 - Drill all the marks using 1/2" drill bit w/ drill collar, then attach plus nuts to the holes.

NOTE: Use 1/2" drill bit with drill collar to stop drill at 1/2" depth.

WARNING: Before drilling, ensure that you will not hit any critical parts of the vehicle like the **Gas tank**, **Wiring Harness** and **Hose**.

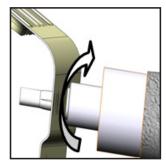




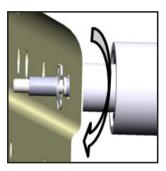
2.3.2 How to attach plus nut.

USING PLUSNUT GUN

STEP: Put the plusnut on the plusnut gun, then attach the plus nut in the hole by turning the gun forward until the plus nut locks, then remove the gun by turning in reverse.



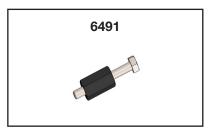
FORWARD



REVERSE

• USING THE 6491 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



Flat washer 5/16"



Flat washer 5/16" BS x 7/8" OD

TOOLS

- □ Cordless Impact
- ☐ 1/2" Socket
- □ 9/16" Wrench

STEP 1: Assemble the 6491 plusnut tool with the hardware needed, plus nut and the 9/16" wrench as shown.





STEP 2

Attach the plus nut in the hole by turning the bolt forward using an impact with a 1/2" socket until the plusnut locks, then remove the bolt by turning the impact in reverse.





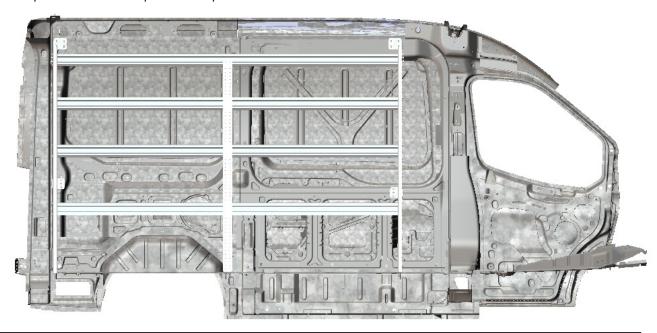


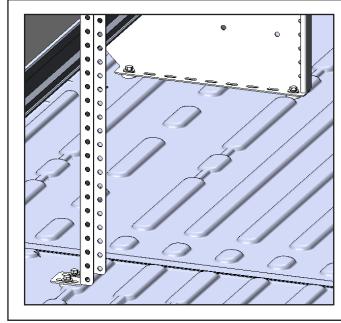
REVERSE

2.4 ATTACH SHELF UNIT TO THE FLOOR

WITHOUT RANGER FLOOR

2.4.1 Put the assembled shelf back in place aligning the holes to the plusnuts, then install the end panels and center post to the plus nuts.





TOOLS

- □ Cordless Impact
- ☐ 1/2" Socket

HARDWARE USED

6×







#98-122 Lock Washer



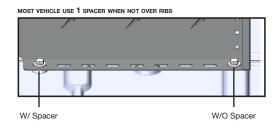
#98-116 Flat Washer



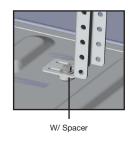
#98-157 Spacers (QTY = GAP BETWEEN FLOOR AND END PANEL)



#94-132 5/16" Plusnut



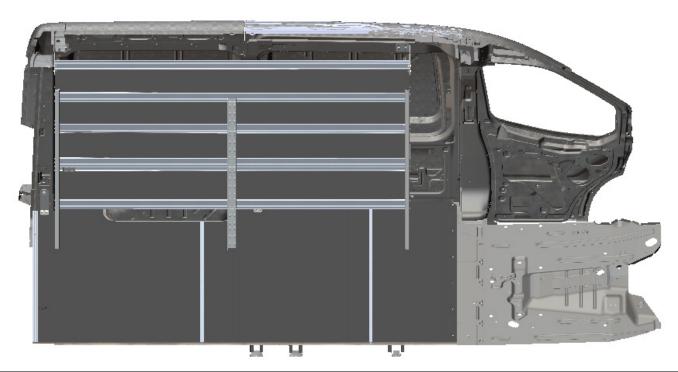
NOTE: Fastener should always be installed as close to the vertical face as possible.



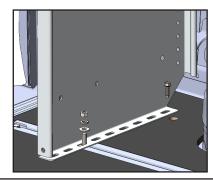


WITH RANGER FLOOR

- **2.4.2** Lift the shelving unit inside the van, then put it in place.
 - Install the shelving unit to the floor mounting track by sliding bolts in the mounting tracks, and putting screw in the last rear slot of the end panels of the shelving unit.



STANDARD FLOOR



TOOLS

- ☐ Cordless Impact ☐ 3/8" Driver Bit
- ☐ 1/2" Socket

HARDWARE USED

2× FLOOR FASTENER KIT



#92-102 Screw 1"

HARDWARE USED

2× FLOOR FASTENER KIT



#90-490 Carriage Bolt 5/16" × 1"



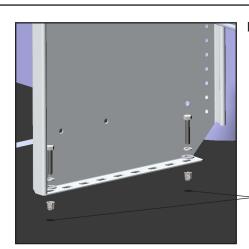
#98-122 Flat Washer



#98-116 Lock Washer



#94-104 Hex Nut



E-FLOOR

7/16 drill hole

TOOLS

- Marker
- ☐ 7/16" Drill Bit
- ☐ 1/2" Socket
- □ Drill Collar

HARDWARE USED

4× HAND-TIGHTEN THE BOLTS

HARDWARE USED

4× HAND-TIGHTEN THE BOLTS



#90-204 Hex Bolt 5/16" × 3/4"



#98-116 Lock Washer



#98-116 Flat Washer



#99-114 Zinc Alloy Tapping Inserts for Softwood



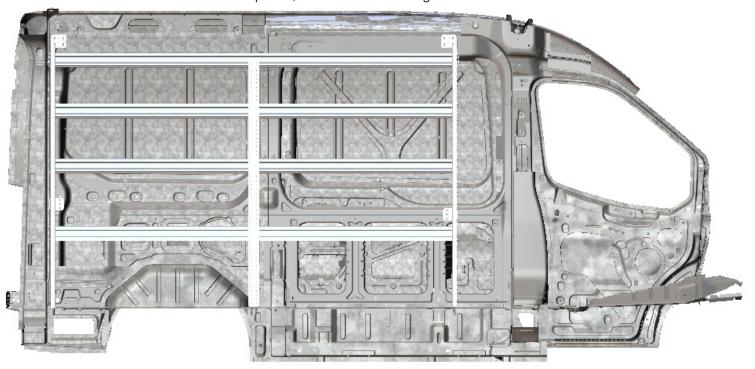
2.5 ATTACH WALL BRACKETS

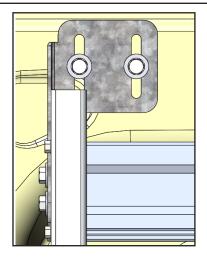
WITHOUT RANGER WALL KITS

2.5.1 Aligned the wall brackets to the plus nuts, then install the wall brackets to the wall.

NOTE: Tightened the bolts that used to attached the wall bracket to the wall or wall kits 1st before the bolts that used to attached the wall bracket to the end panel.

IMPORTANT: After installation is completed, ensure all bolts are tightened.





TOOLS

□ Cordless Impact

☐ 1/2" Socket

HARDWARE USED

8×



#90-212 Hex Bolt 5/16" × 1-1/4"



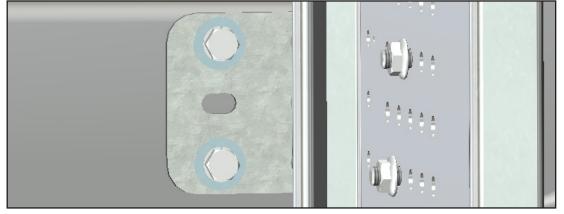
#98-122 Lock Washer



#98-116 Flat Washer



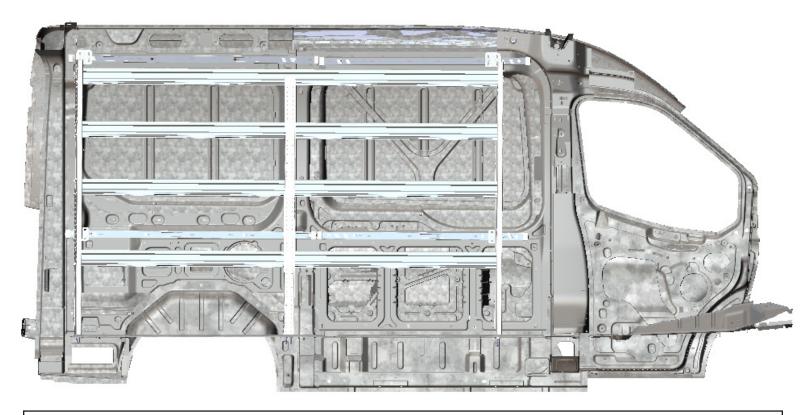
#94-132 5/16" Plusnut

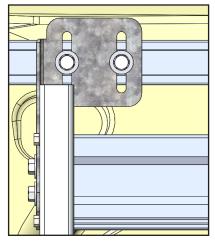


WITH RANGER WALL KITS

2.5.2 First align the wall brackets to the wall mounting track kits, then install the wall brackets to the wall mounting track kits using channel nuts.

IMPORTANT: First tighten the bolts that secure the wall bracket to the wall or wall kits, and then tighten the bolts that secure wall bracket to the end panels. After installation is completed, ensure all bolts are properly tightened.





TOOLS

□ Cordless Impact□ 1/2" Socket

FASTENERS USED

8× WALL KITS FASTENER KIT

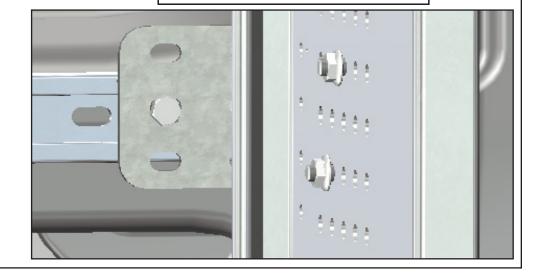


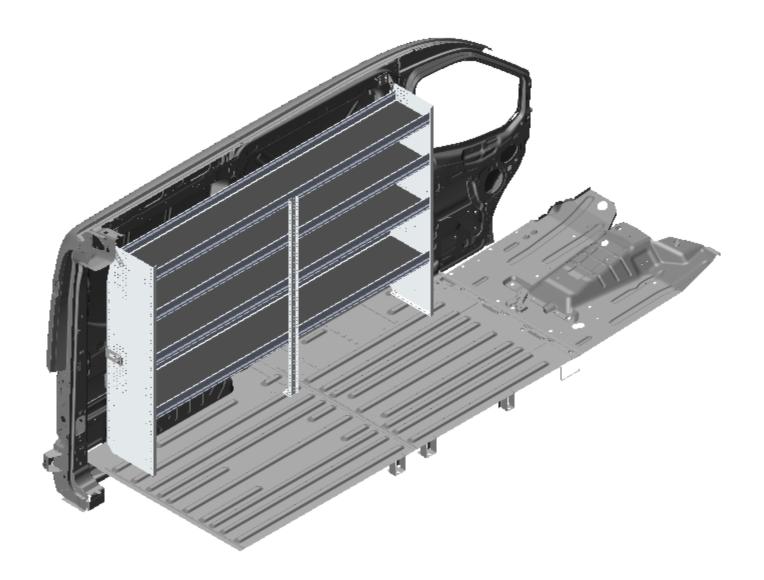
#90-208 Hex Bolt 5/16" × 1"

#98-122 Lock Washer

#98-116 Flat Washer

#94-150 Channel Nut





"You have successfully installed your N5-RA96-4

Thank you for doing business with us."

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

