

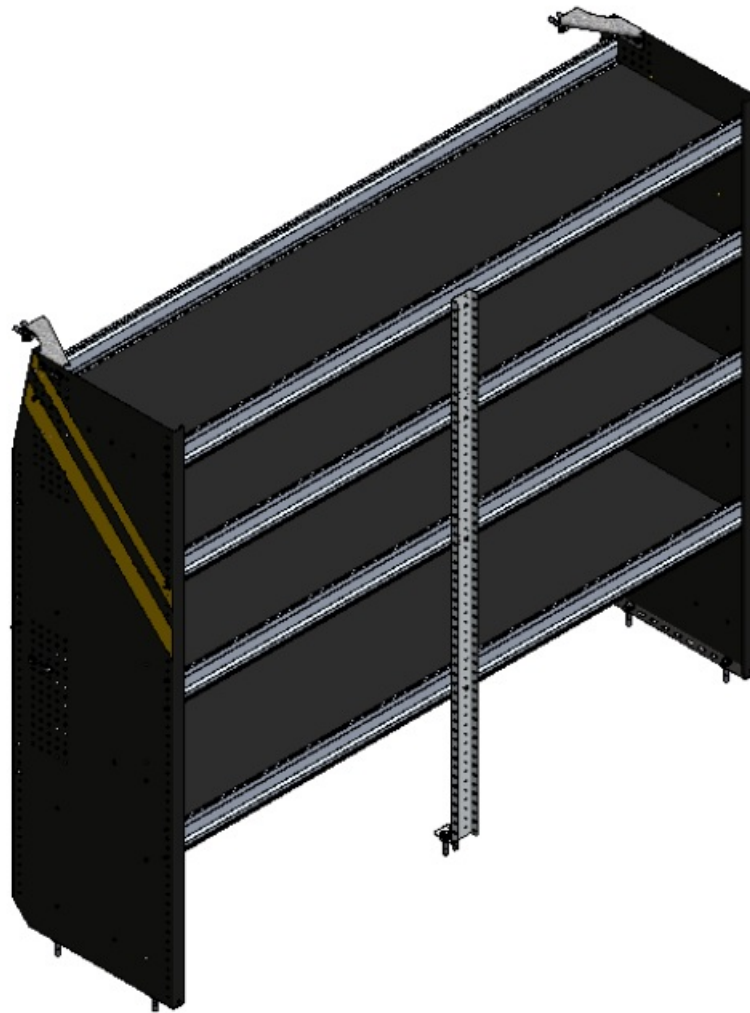


RANGER DESIGN N5-DS72-4 Shelving Unit Installation Guide

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DESIGN N5-DS72-4 Shelving Unit
Installation Guide



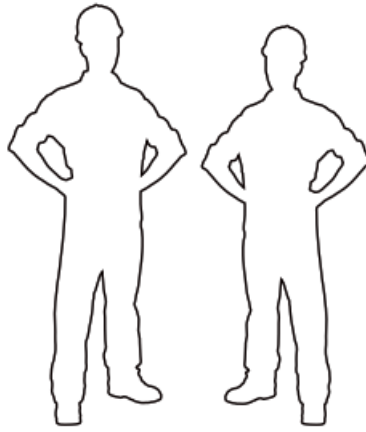
N5-DS72-4 Shelving (steel)

Transit High Roof & Medium Roof Promaster Standard Roof & High Roof Nissan NV High Roof Sprinter Low Roof & High Roof Box Truck / Trailer.

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REQUIRED ITEMS

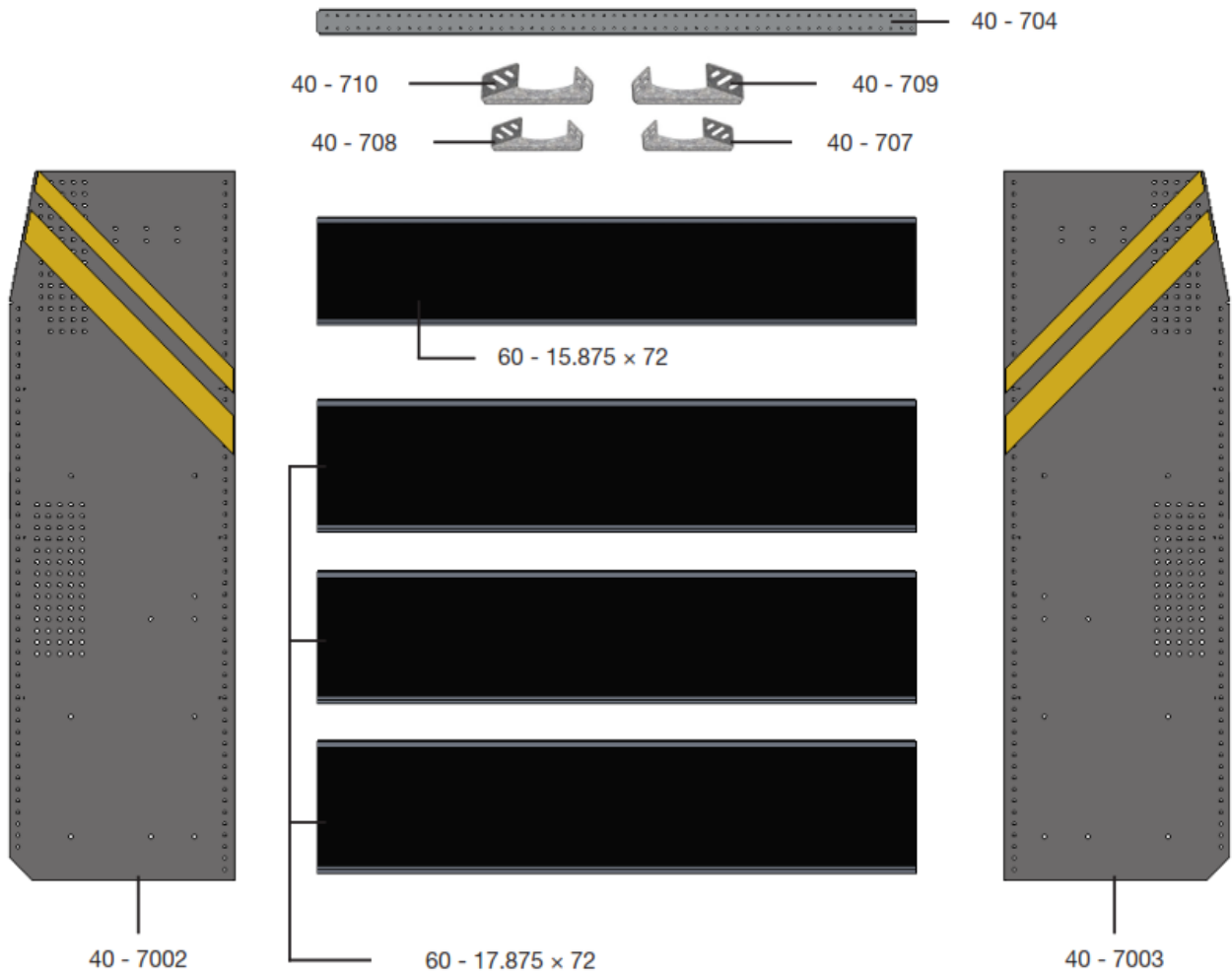


- Cordless Impact
- Cordless Drill
- Tape Measure
- Marker
- 1/2" Socket
- 1/2" Drill Bit w/ Drill Collar (Set at 1/2")
- 3/8" Driver Bit
- Knife
- Plusnut Tool / Plusnut Gun (5/16")

PHASE 1 – ASSEMBLY

1.1 SETUP

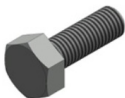




1.1.1 Unpack components; compare with the bill of materials.



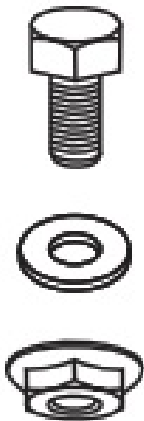
1.1.2 Verify all parts are present.

Item No.	Description	Qty.
40 – 704	Center Post	1
40 – 707	Short Corner Bracket (Left)	1
40 – 708	Short Corner Bracket (Right)	1
40 – 709	Long Corner Bracket (Left)	1
40 – 710	Long Corner Bracket (Right)	1
40 – 7002	End Panel (Left)	1
40 – 7003	End Panel (Right)	1
60 – 15.875 x 72	Shelf Tray, Black Plywood, Usable 16" x 72"	1
60 – 17.875 x 72	Shelf Tray, Black Plywood, Usable 18" x 72"	3
94 – 4026	Assembly Fastener Kit	1
96 – 4026	Install Fastener Kit	1

1.1.3Fastener kits.

8×8×		# 90-204
8×8×		# 92-200
32×32×		# 92-102
8×8×		# 94-116
8×8×		# 98-116

Fastener Assembly

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

8×



#92-200 Screw #10 – 16 × 3/4"

32×




#92-102 Screw #14 × 1"

96 – 4026 Fastener Kit


6×		# 90-011
8×		# 90-212
14×		# 94-132
14×		# 98-116
14×		# 98-122
6×		# 98-157

Fastener Assembly

8×

	#90-212 Hex Bolt 5/16" × 1-1/4"
	#98-122 Lock Washer
	#98-116 Flat Washer
	#94-132 5/16" Plusnut

6×

	#90-011 Hex Bolt 5/16" × 1-3/4"
	#98-122 Lock Washer
	#98-116 Flat Washer
	#98-157 Spacers
	#94-132 5/16" Plusnut

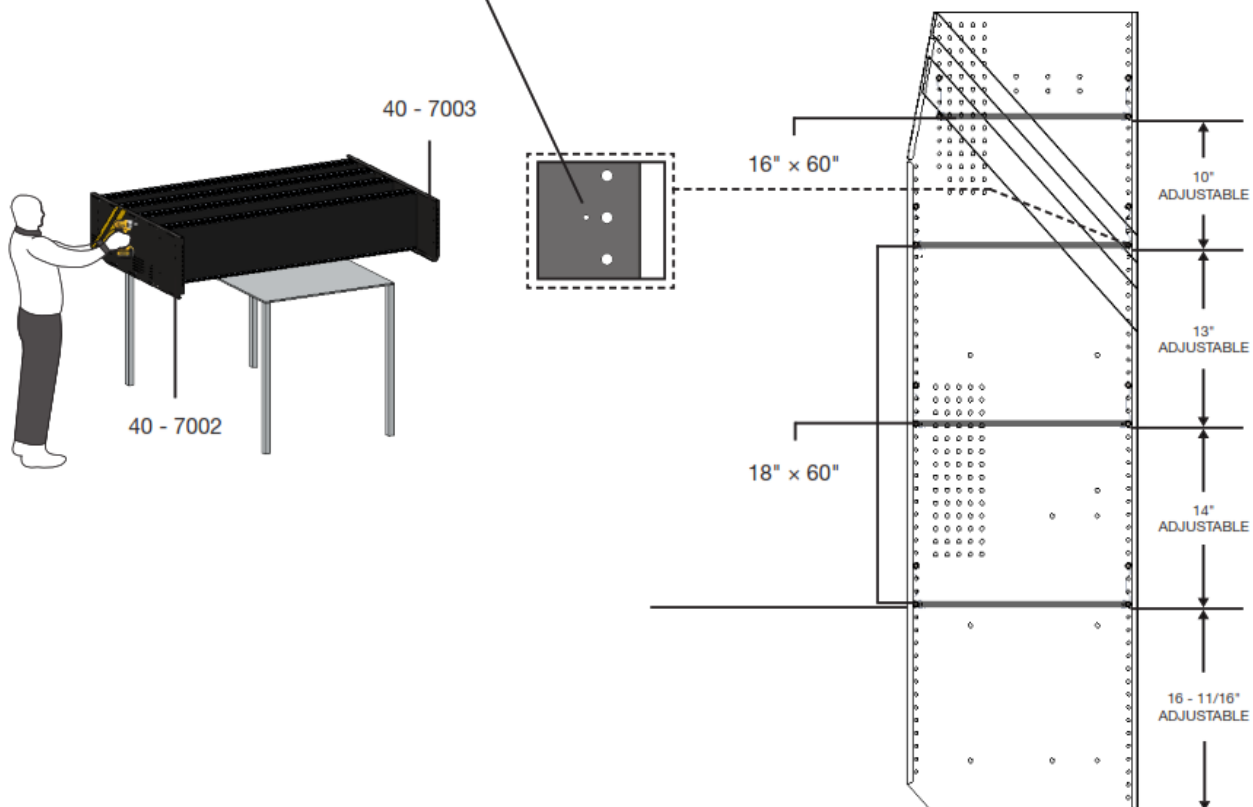
1.2 SHELF ASSEMBLY

1.2.1 Attach both panels to the shelf trays.

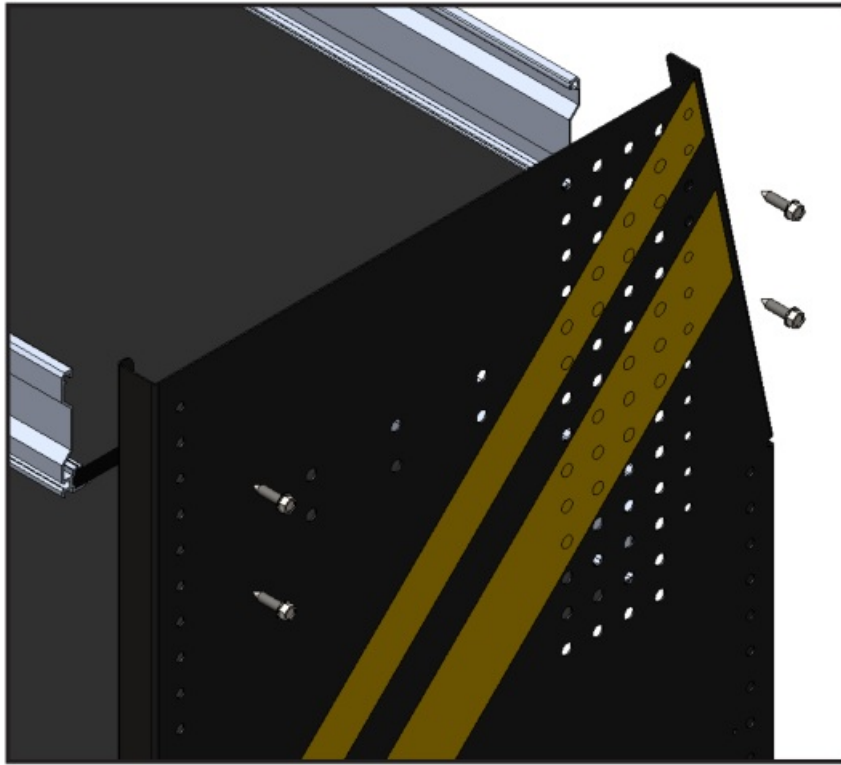
NOTE: You can adjust the bottom shelf location to maximize or minimize your space over the wheel.

IMPORTANT: Always handle panels on a smooth, protected and clean surface to avoid unnecessary scratching.

TIPS: Shelf tray position guide.



VEHICLE	MINIMUM
Promaster	16 – 11/1
Sprinter	13 – 11/1
Transit	13 – 11/1
Nissan	13 – 11/1
Box Truck / Trailer	13 – 11/1



TOOLS

- Cordless Impact
- 3/8" Driver Bit

HARDWARE USED

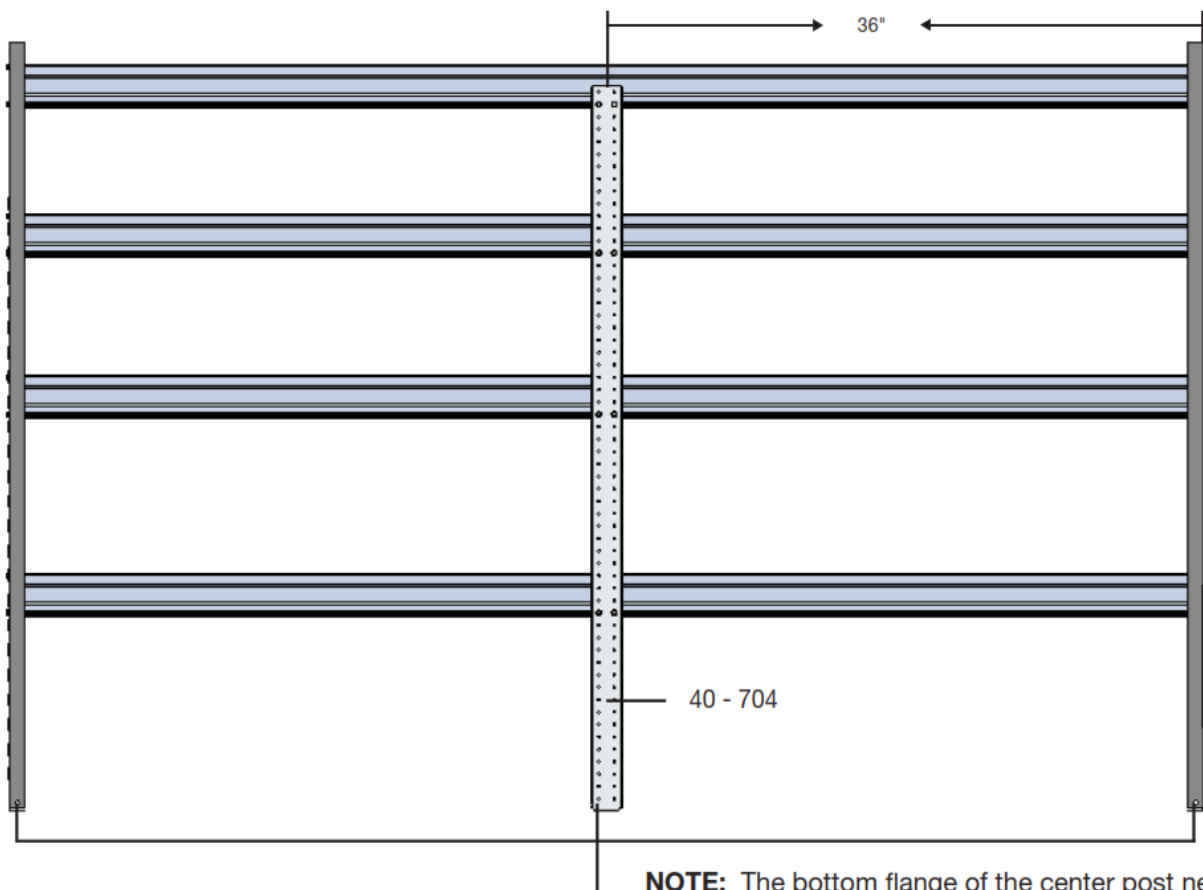
32x



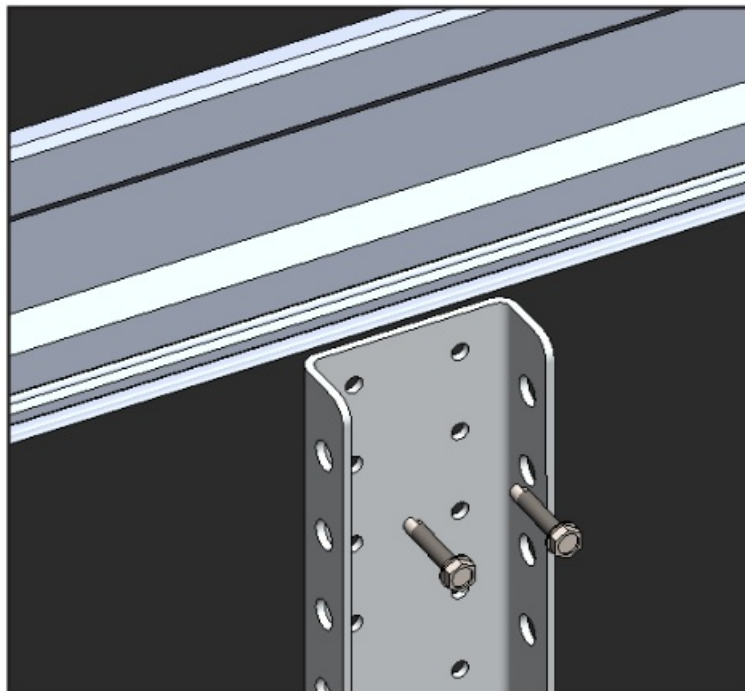
#92-102 Screw #14 x 1"

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.



NOTE: The bottom flange of the center post need to be flush with the bottom of the end panel.



TOOLS

- Cordless Impact
- 3/8" Driver Bit

HARDWARE USED

8x



#92-200 Screw #10 – 16 × 3/4"

PHASE 2 – INSTALLATION

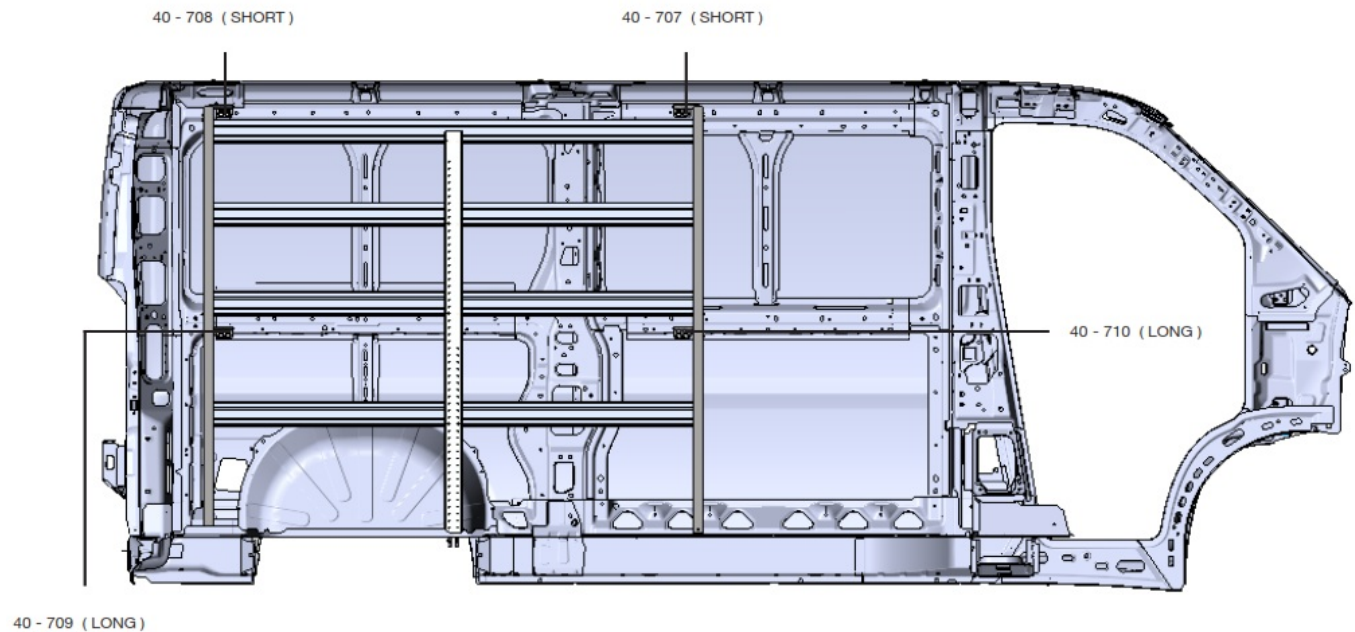
2.1 ATTACH WALL BRACKETS TO THE END PANELS

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 short and long brackets to the panels aligning the brackets to the horizontal rim of the vehicle.

NOTE: Handle with care.



Attach the short and long brackets to the panels aligning the brackets to the horizontal rim of the vehicle.

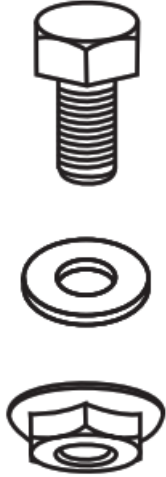
NOTE: You can install the brackets inside or outside the panel.

TOOLS

- Cordless Impact
- 1/2" Socket

HARDWARE USED

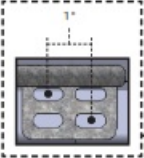
8× hand-tighten the bolts

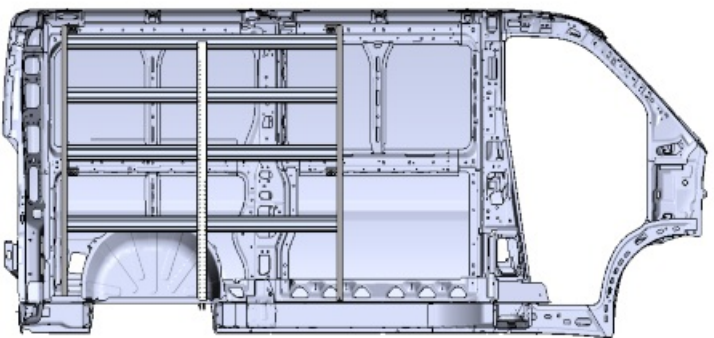
	#90-204 Hex Bolt 5/16" × 3/4"
	#98-116 Flat Washer
	#94-116 Serrated Nut

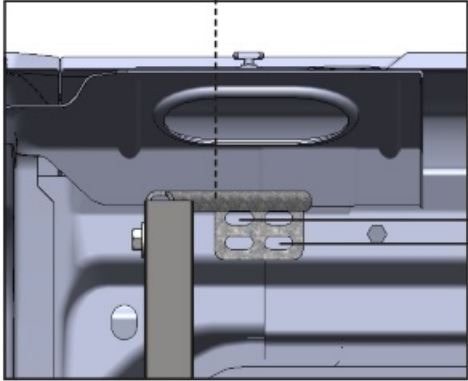
2.2 MARK HOLES FOR PLUS NUTS

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

NOTE: The distance between the two holes should be no less than 1", to avoid plus nut overlap







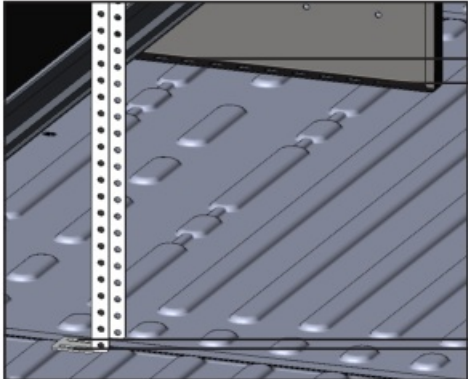
Mark 2 holes of the short and long brackets on the vehicle horizontal rim.

NOTE: If you are using Ranger wall kits, please go to [PAGE 14](#).

TOOLS

☐ Marker

MARK



Mark 2 holes of each end panel and mark also the 2 holes of the center post on the vehicle floor.

NOTE: If you are using Ranger floor, please go to [PAGE 12](#).

TOOLS

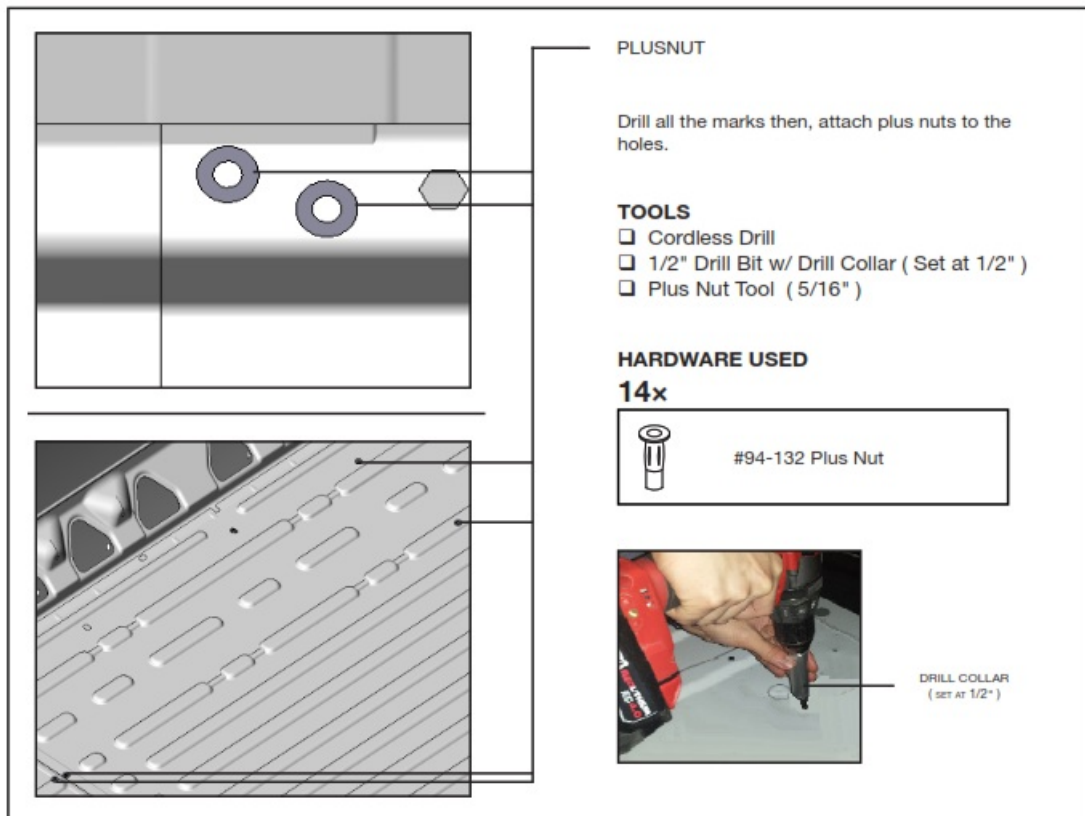
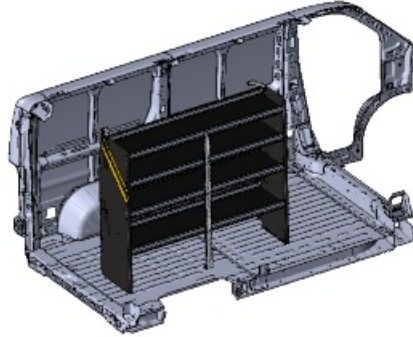
☐ Marker

MARK

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

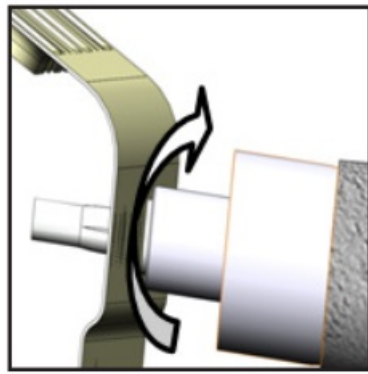
NOTE: Use 1/2" drill bit with a drill collar to stop drill at 1/2" depth.

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

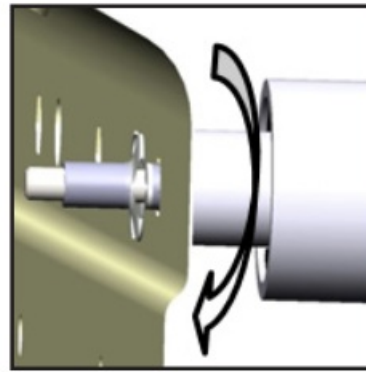


2.3.2 How to attach plus nut. using plus nut gun

STEP: Put the plus nut on the Plusnet 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 plus nut tool

NOTE: The hardware used for the 6490 plus nut tool is not included in the fastener bag. The 6490 plus nut tools can be ordered separately upon demand at no charge.

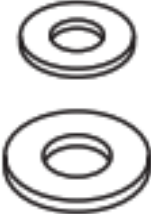


6491

HARDWARE USED

Flat washer 5/16"

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

	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 plus nut tool with the hardware needed, plus the 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 plus nut locks, then remove the bolt by turning the impact in reverse.



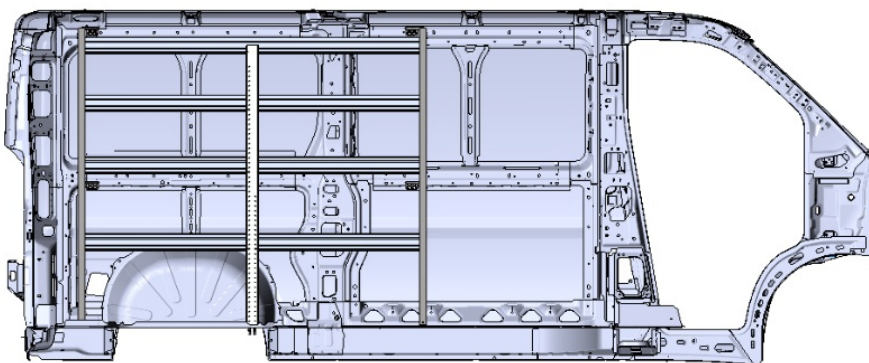
FORWARD

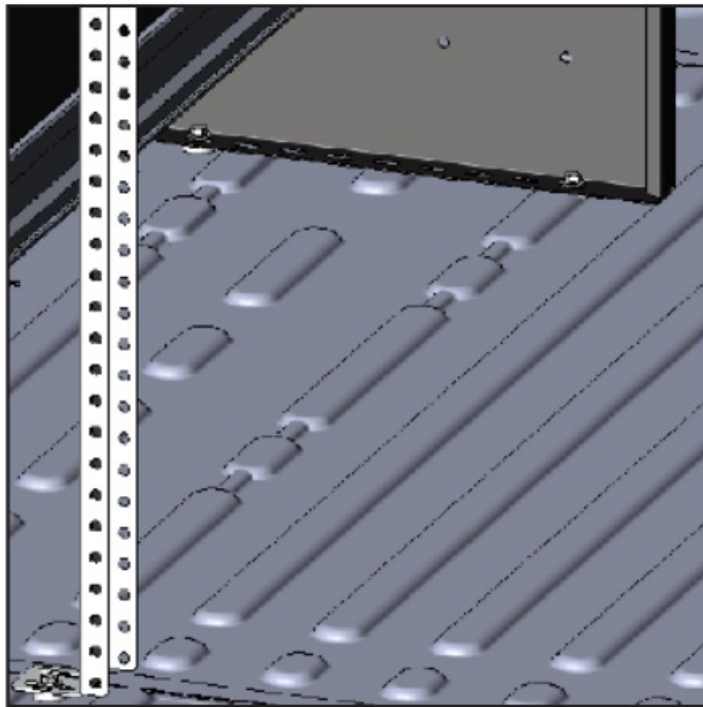


REVERSE

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 plus nuts, then install the end panels and center post to the plus nuts.



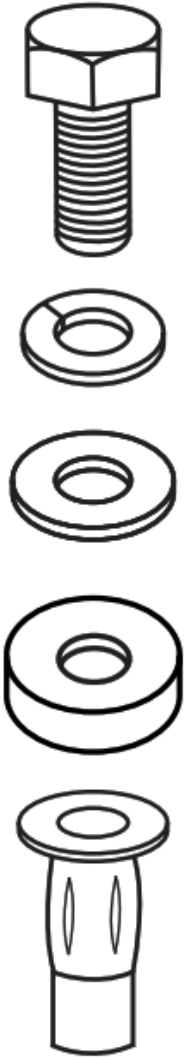


TOOLS

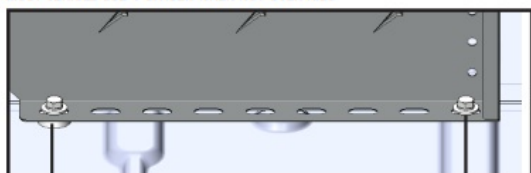
- Cordless Impact
- 1/2" Socket

HARDWARE USED

6x

	#90-011 Hex Bolt 5/16" × 1-3/4"
	#98-122 Lock Washer
	#98-116 Flat Washer
	#98-157 Spacers
	#94-132 5/16" Plusnut

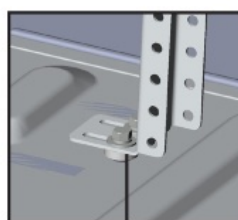
MOST VEHICLE USE 1 SPACER WHEN NOT OVER RIBS



W/ Spacer

W/O Spacer

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



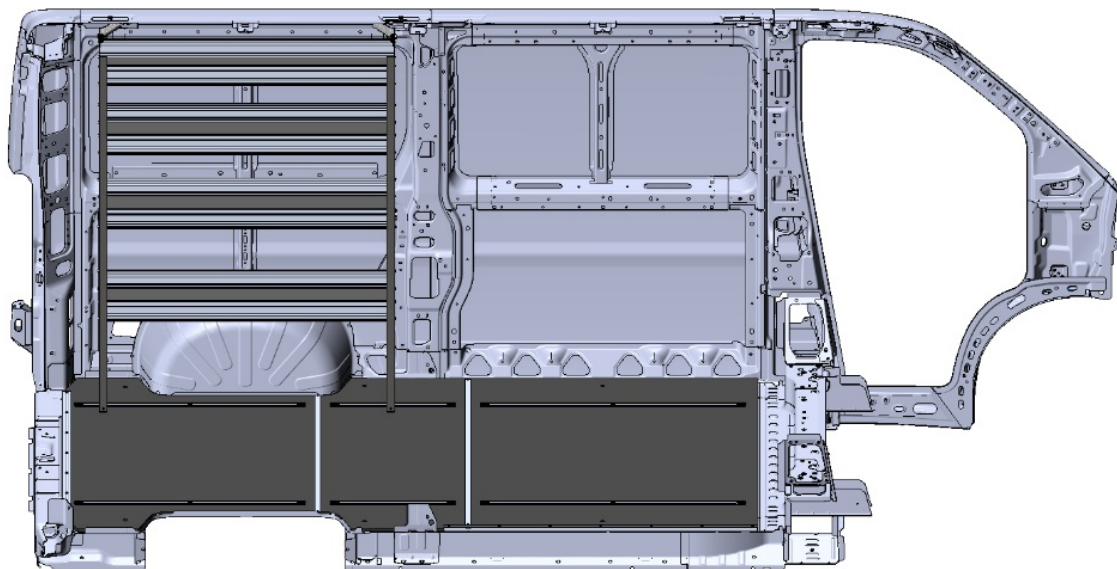
W/ Spacer



W/O Spacer

With Ranger Floor

- **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.



TOOLS

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



HARDWARE USED





2× floor fastener kit



#92-102 Screw 1"

HARDWARE USED

2× floor fastener kit

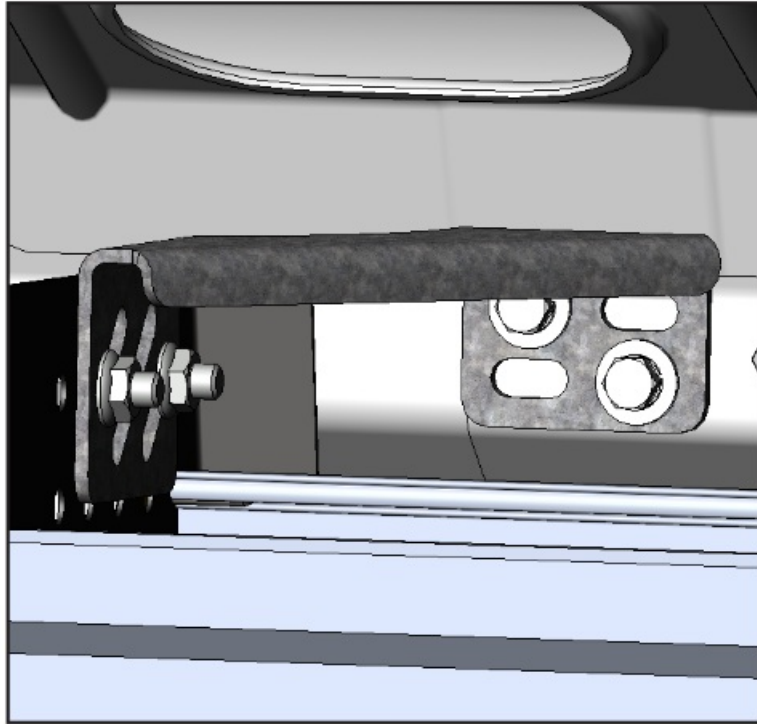
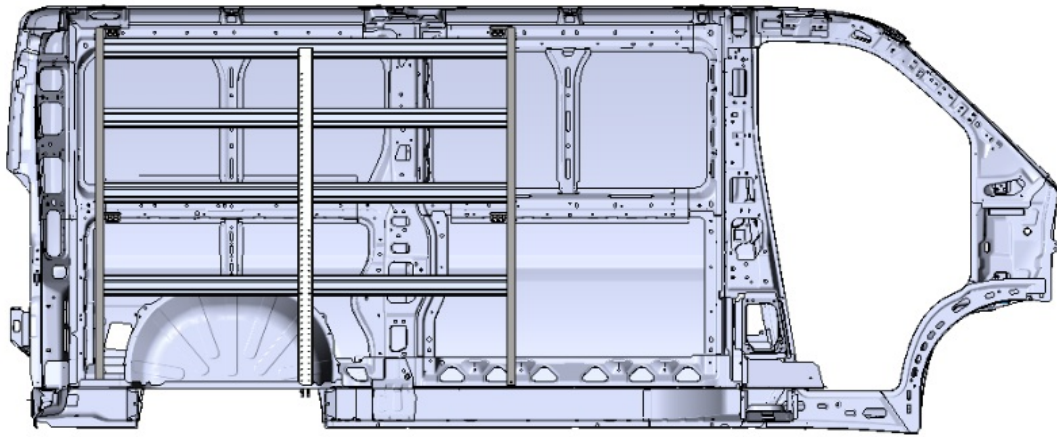
	#90-490 Carriage Bolt 5/16" × 1"
	#98-116 Lock Washer
	#98-122 Flat Washer
	 #94-104 Hex Nut
	
	

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 are used to attach the wall bracket to the wall or wall kits 1 st before the bolts that are used to attach the wall bracket to the end panel.

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

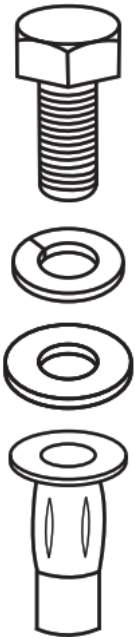


TOOLS

- Cordless Impact
- 1/2" Socket

HARDWARE USED

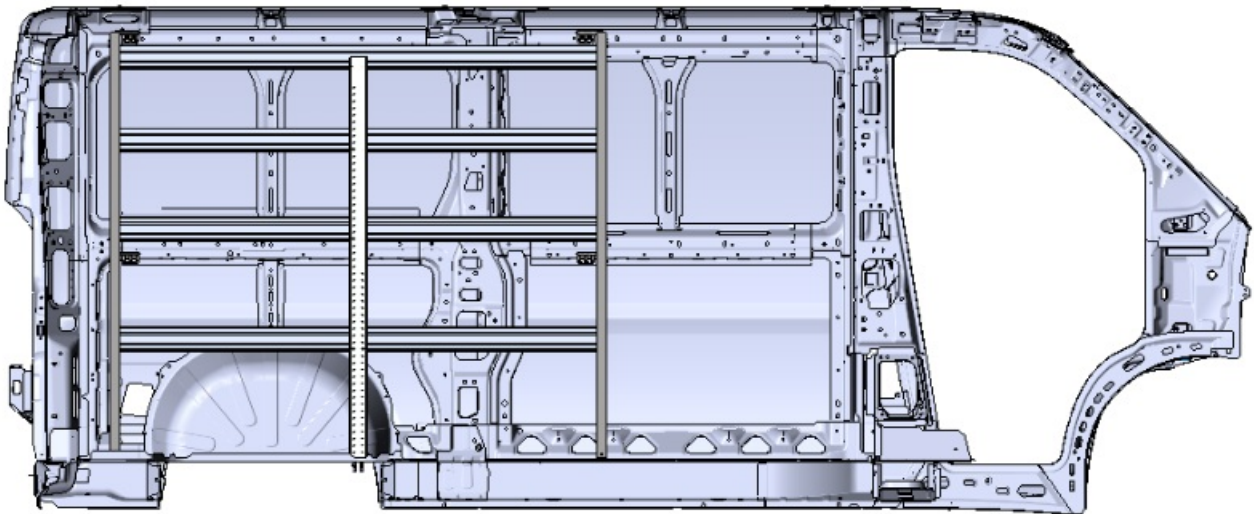
8x

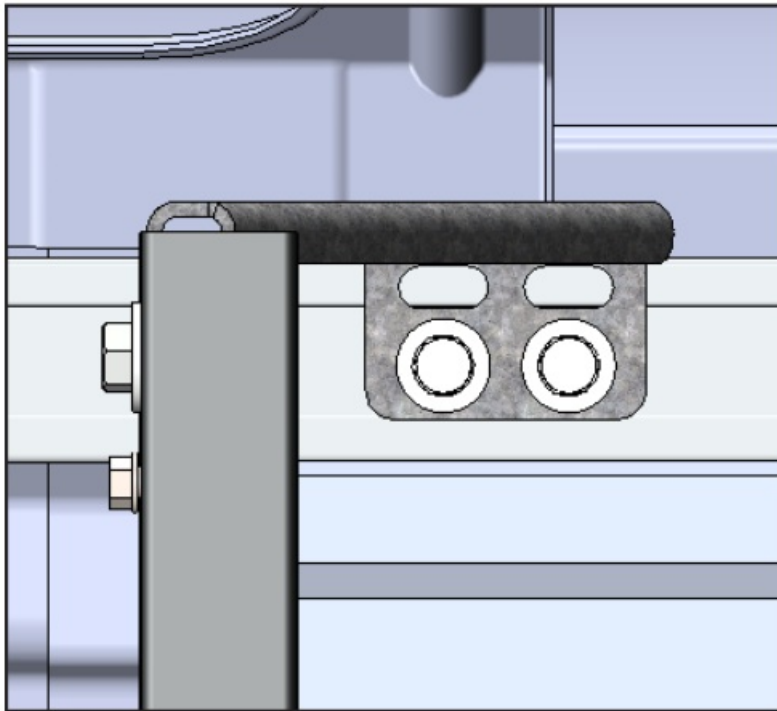
	#90-212 Hex Bolt 5/16" × 1-1/4"
	#98-122 Lock Washer
	#98-116 Flat Washer
	#94-132 5/16" Plusnut

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

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

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





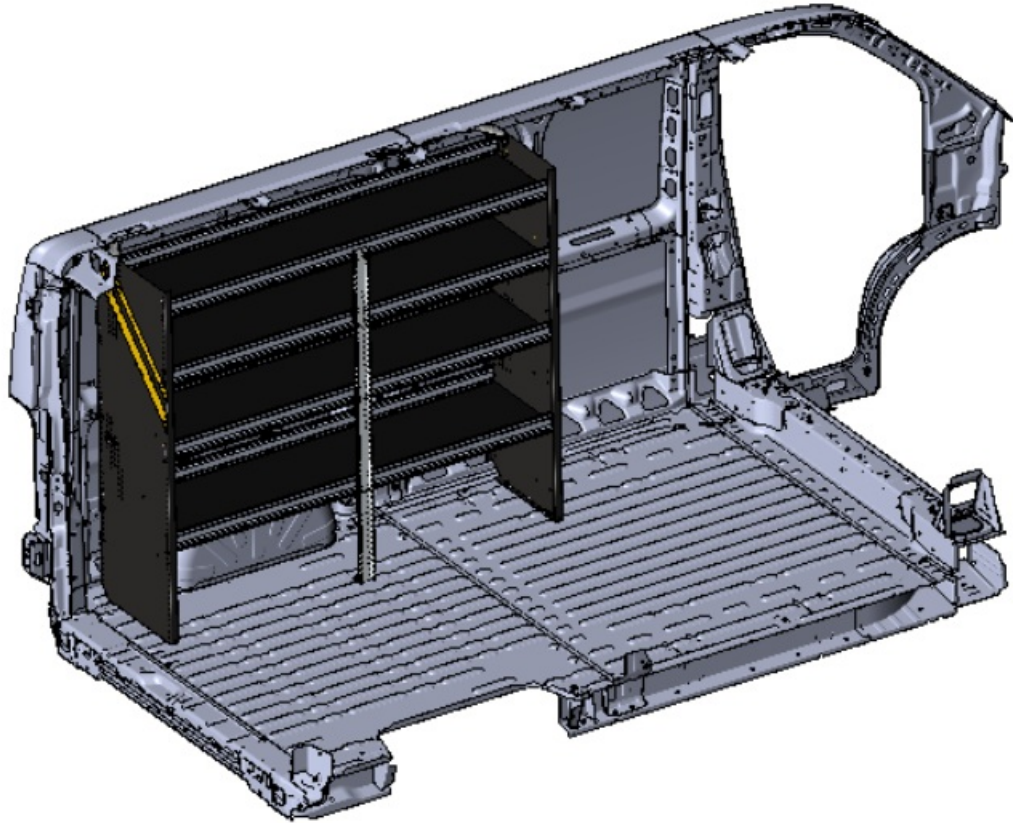
TOOLS

- 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-DS72-4 Thank you for doing business with us.”

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



For technical support
contact us at 1-800-565-5321

Documents / Resources

<p>INSTALLATION GUIDE</p>  <p>N5-DS72-4 Shelving Unit N5-DS72-4 Shelving Unit, N5-DS72-4, Shelving Unit</p>	<p>RANGER DESIGN N5-DS72-4 Shelving Unit [pdf] Installation Guide N5-DS72-4 Shelving Unit, N5-DS72-4, Shelving Unit</p>
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[Manuals+](#)