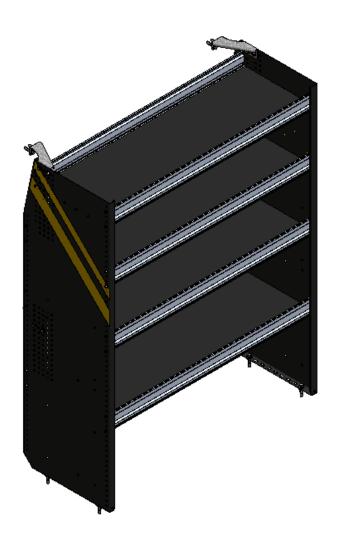
INSTALLATION GUIDE



N5-DS48-4 Shelving (STEEL)

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

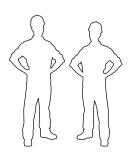


QUICK START GUIDE

Phase 1 - Assembly

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Phase 2 - Installation	
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REQUIRED ITEMS



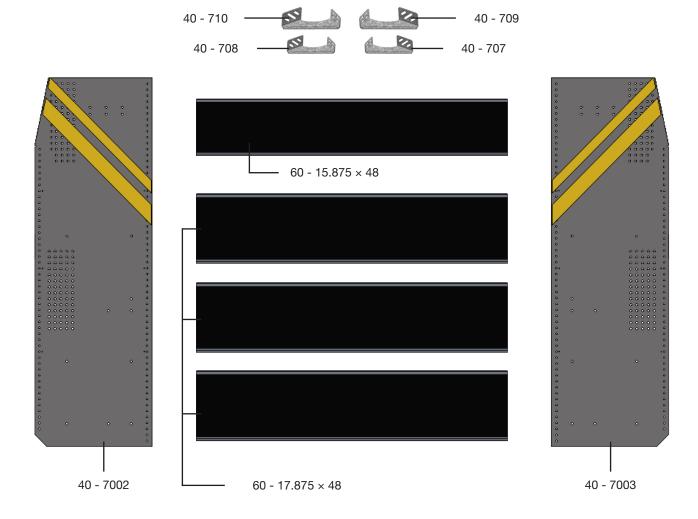
2 PERSONS

□ 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.

BILL OF MATERIALS

Description	Qty.
Short Corner Bracket (Left)	1
Short Corner Bracket (Right)	1
Long Corner Bracket (Left)	1
Long Corner Bracket (Right)	1
End Panel (Left)	1
End Panel (Right)	1
Shelf Tray, Black Plywood, Usable 16" × 48"	1
Shelf Tray, Black Plywood, Usable 18" × 48"	3
Assembly Fastener Kit	1
Install Fastener Kit	1
	Short Corner Bracket (Left) Short Corner Bracket (Right) Long Corner Bracket (Left) Long Corner Bracket (Right) End Panel (Left) End Panel (Right) Shelf Tray, Black Plywood, Usable 16" × 48" Shelf Tray, Black Plywood, Usable 18" × 48" Assembly Fastener Kit

1.1.3 Fastener kits.

94 - 4025 Fastener Kit

Fastener Assembly

8×

90-204

Hex Bolt 5/16"-18 × 3/4" GR-5 ZINC

32×

92-102

Screw HWH #14 × 1" ZINC

8×



94-116

Serrated Nut 5/16"-18 ZINC

8×

0

98-116

Flat Washer 5/16" - 18 × 1" ZINC 8×



#90-204 Hex Bolt 5/16" × 3/4"

0

#98-116 Flat Washer

#94-116 Serrated Nut

32×



#92-102 Screw #14 x 1"

96 - 4025 Fastener Kit

Fastener Assembly

12×



90-212

Hex Bolt 5/16"-18 × 1-1/4" GR-5 ZINC

12×



94-132

Plusnut

12×



98-116

Flat Washer 5/16", O.D. 7/8" ZINC

12×



98-122

Lock Washer 5/16" ZINC

4×



98-157

Spacer 0.375" ID, \times 1.0" OD \times 0.25" LONG NYLON

F

8×



#90-212 Hex Bolt 5/16" × 1-1/4"

(E)

#98-122 Lock Washer #98-116 Flat Washer



#94-132 5/16" Plusnut

4×



#90-212 Hex Bolt 5/16" × 1-1/4"



#98-122 Lock Washer #98-116 Flat Washer



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



#94-132 5/16" Plusnut



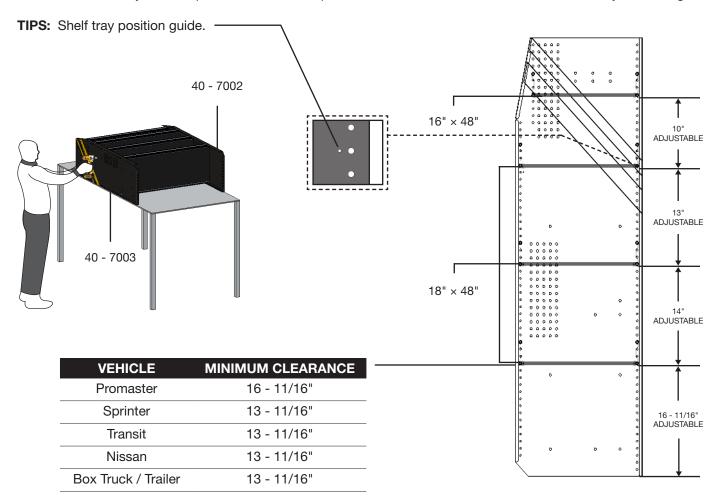
PHASE 1 - ASSEMBLY

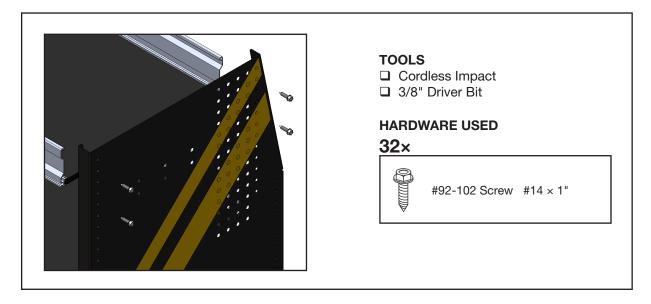
1.2 SHELF ASSEMBLY

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.

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



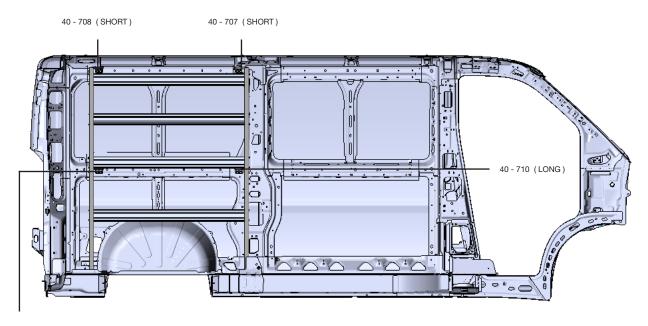


2.1 ATTACH WALL BRACKETS TO THE END PANELS

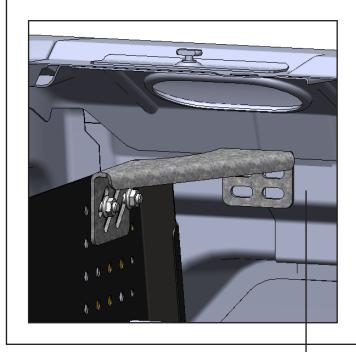
IMPORTANT: For all **Box Trucks**, make sure that the shelving is securely fastened to the structure of the truck.

- **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.



40 - 709 (LONG)



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



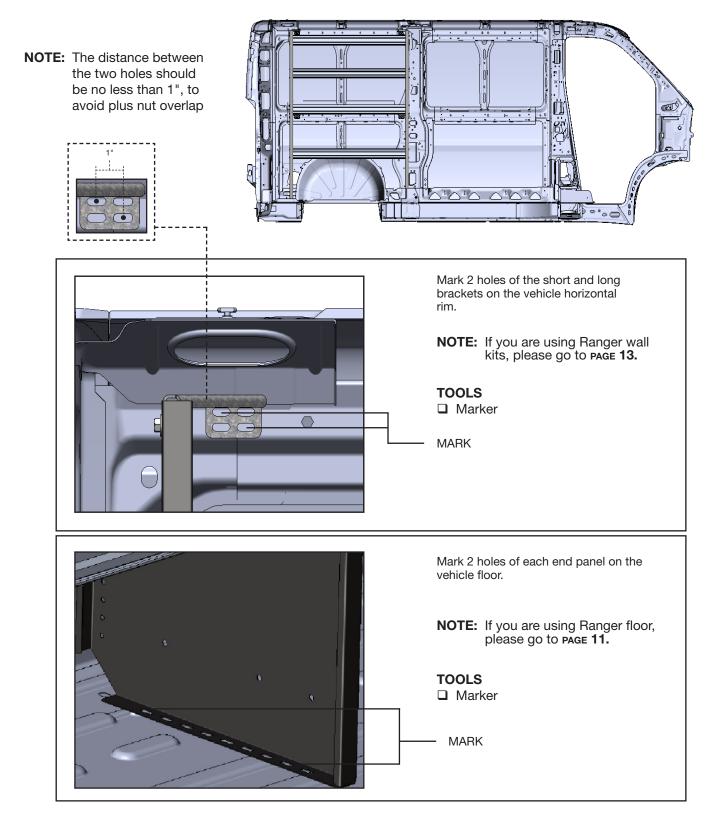
#94-116 Serrated Nut

HORIZONTAL RIM



2.2 MARK HOLES FOR PLUS NUTS

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

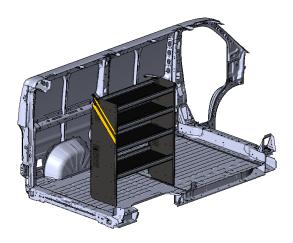


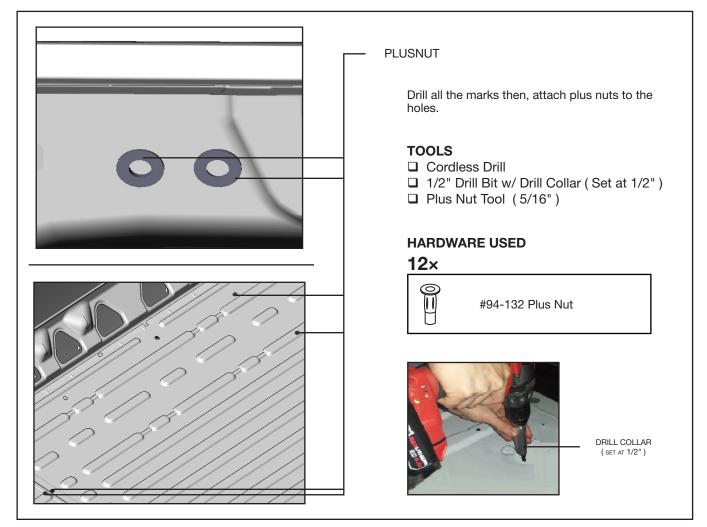
2.3 ATTACH PLUS NUTS

- **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**.

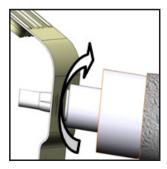




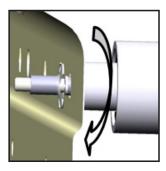
2.3.2 How to attach plus nut.

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.



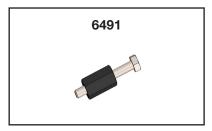




REVERSE

• 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 × 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.





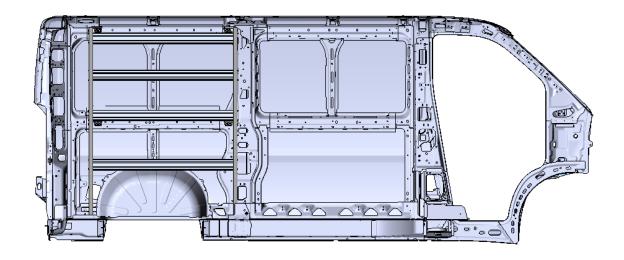


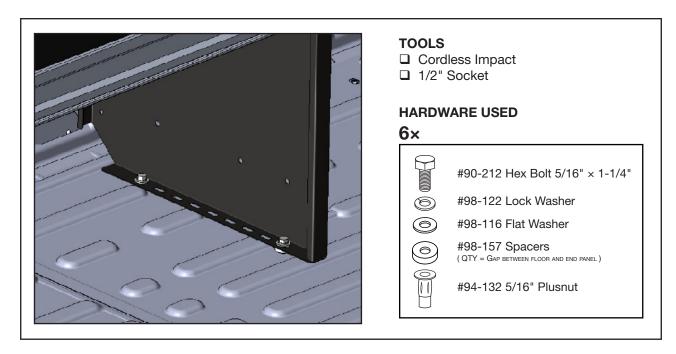
REVERSE

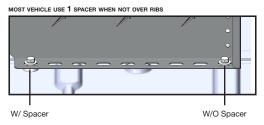
2.4 ATTACH SHELF UNIT TO THE FLOOR

WITHOUT RANGER FLOOR

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



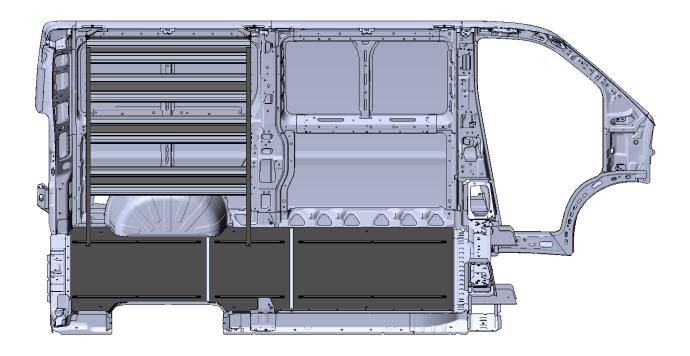


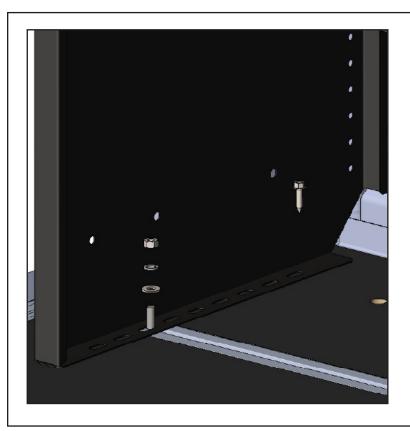




WITH RANGER FLOOR

- **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.





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"



#98-116 Lock Washer



#98-122 Flat Washer



#94-104 Hex Nut

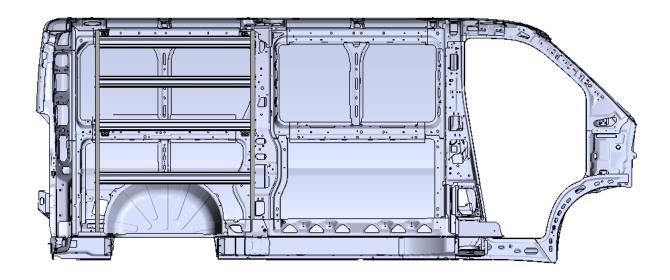
2.5 ATTACH WALL BRACKETS

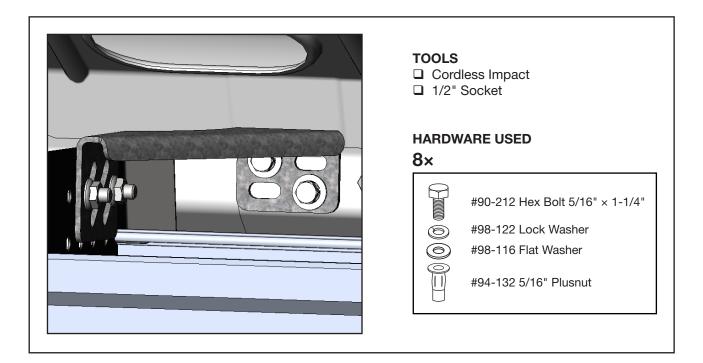
WITHOUT RANGER WALL KITS

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.



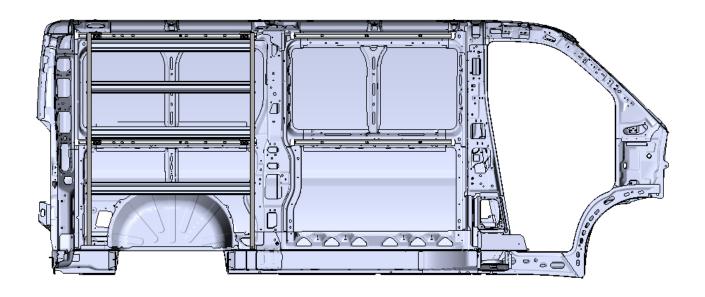


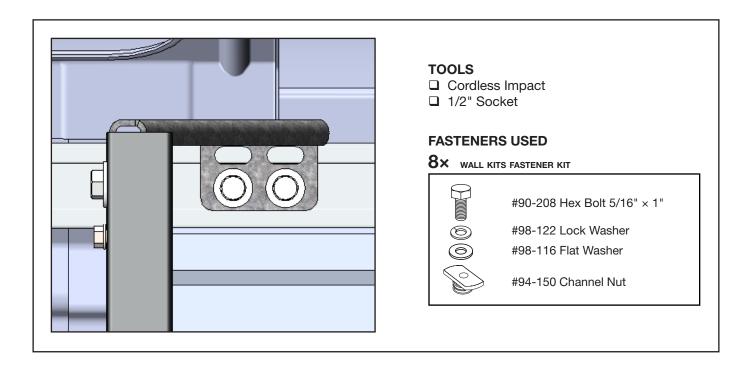
WITH RANGER WALL KITS

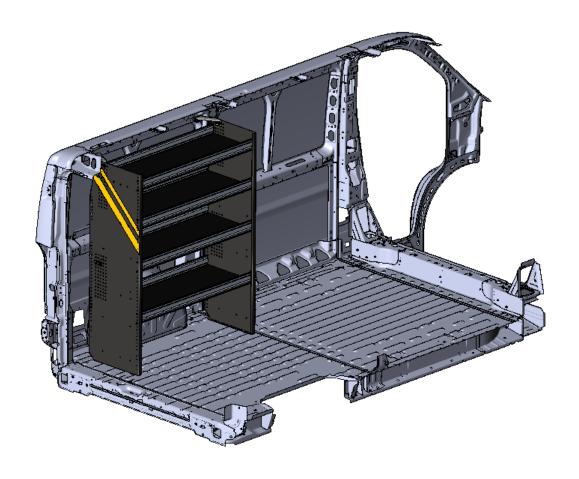
2.5.2 Aligned the wall brackets to the wall mounting track kits, then install the wall brackets to the wall mounting track kits using channel nuts.

NOTE: Tightened the bolts that 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.







"You have successfully installed your N5-DS48-4

Thank you for doing business with us."

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



