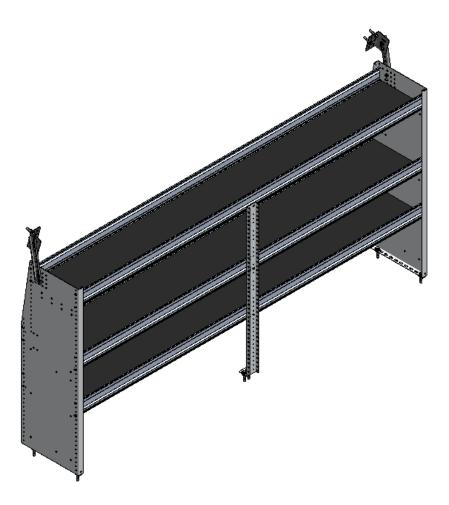
# **INSTALLATION GUIDE**



### N4-RA96-3 Shelving ( ALUMINUM )

Transit Low Roof Nissan NV Low Roof GM Savana



### QUICK START GUIDE

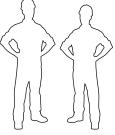
### Phase 1 - Assembly

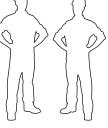
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#### Phase 2 - Installation

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### **REQUIRED ITEMS**





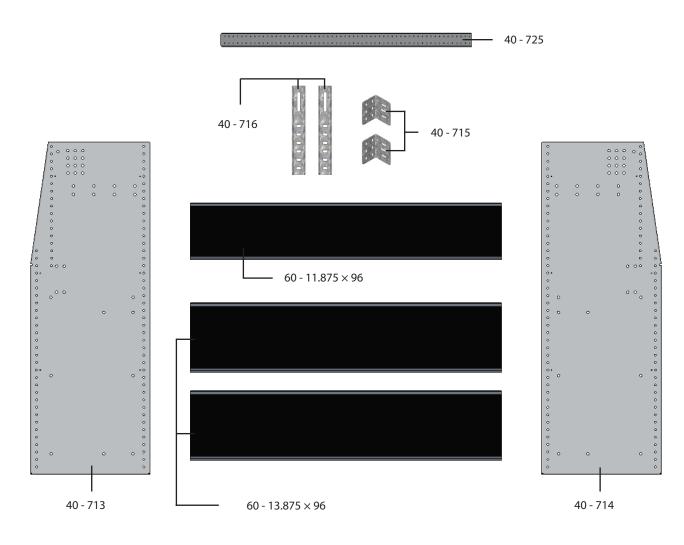
2 PERSONS

- 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

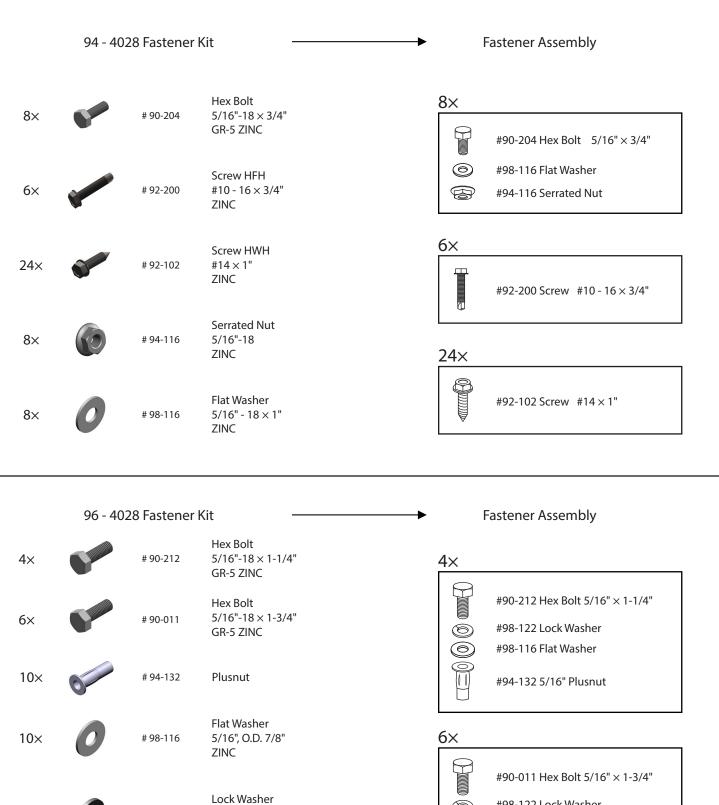
1.1.1 Unpack components; compare with the bill of materials.



#### 1.1.2 Verify all parts are present.

BILL OF MATERIALS		
Item No.	Description	Qty.
40 - 725	Center Post, Low roof	1
40 - 715	Bracket head	2
40 - 716	Bracket arm	2
40 - 713	End Panel (Left)	1
40 - 714	End Panel (Right)	1
60 - 11.875 × 96	Shelf Tray, Black Plywood, Usable 12" $ imes$ 96"	1
60 - 13.875 × 96	Shelf Tray, Black Plywood, Usable 14" × 96"	2
94 - 4028	Assembly Fastener Kit	1
96 - 4028	Install Fastener Kit	1





 $10 \times$ 

б×

5/16" ZINC

Spacer

NYLON

0.375" ID,  $\times$  1.0" OD  $\times$  0.25" LONG

# 98-122

# 98-157

#98-122 Lock Washer

#98-116 Flat Washer #98-157 Spacers

(  $\ensuremath{\mathsf{QTY}}=\ensuremath{\mathsf{Gap}}$  between Floor and END panel )

#94-132 5/16" Plusnut

O

0

0

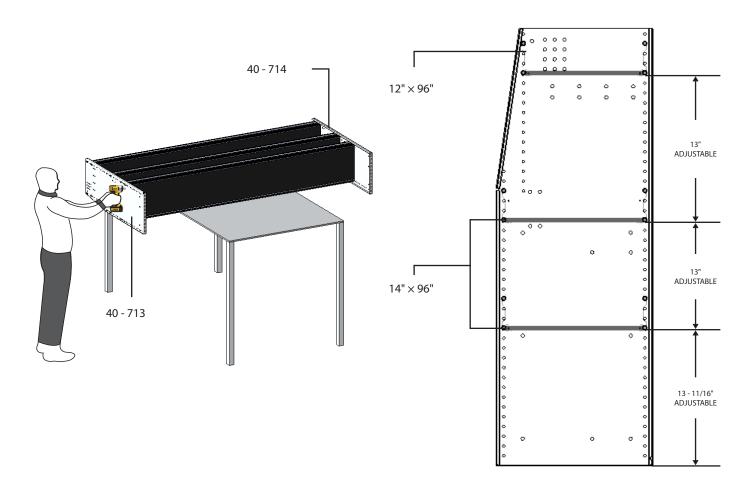
## PHASE 1 – ASSEMBLY

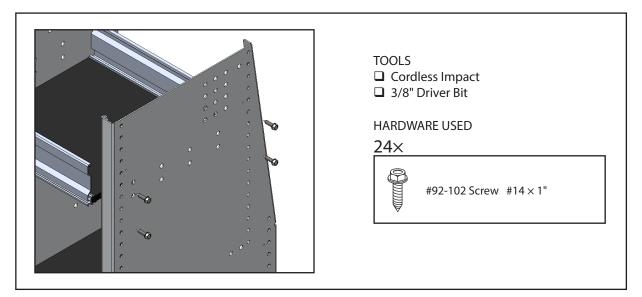
**1.2 SHELF ASSEMBLY** 

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.

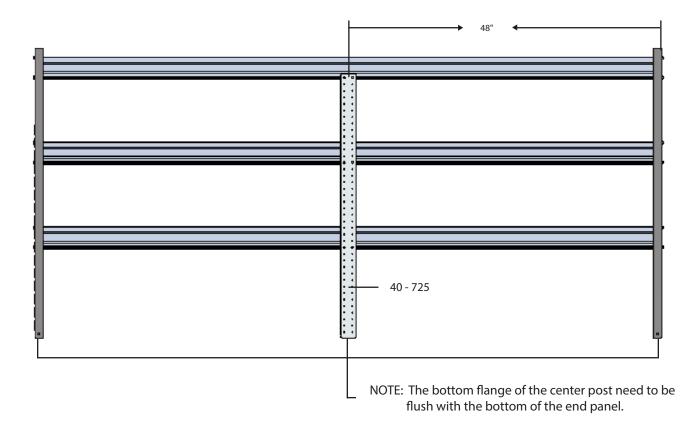


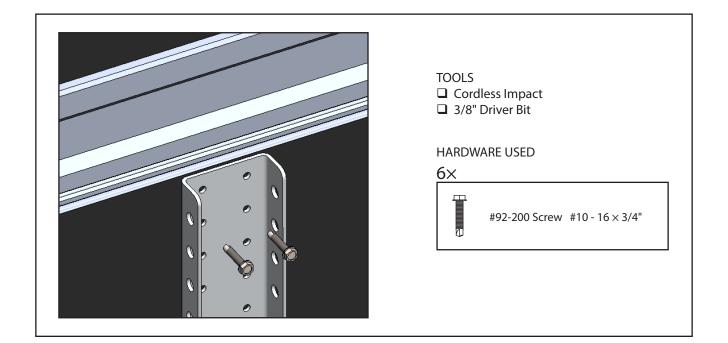




1.2.2 Attach the center post to the center front face of the shelf.

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

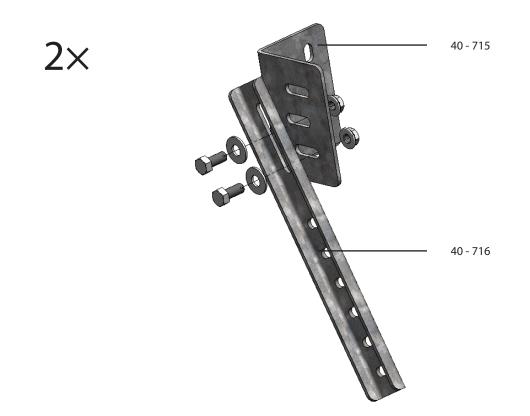


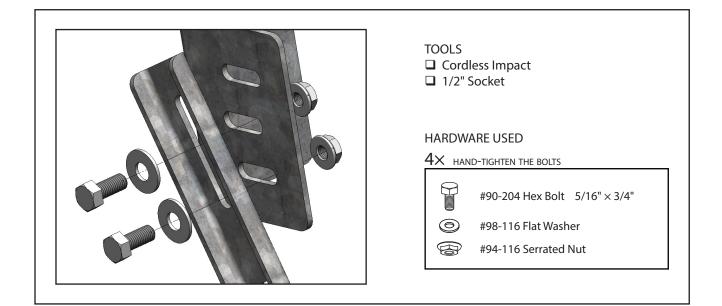




1.2.3 Attach the bracket head to the bracket arm.

NOTE: Hand-tighten the bolts for adjustment.





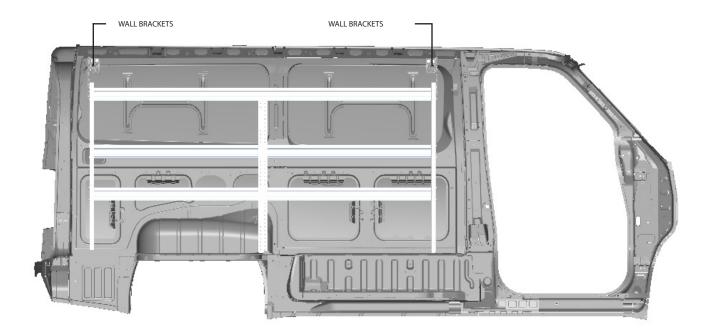


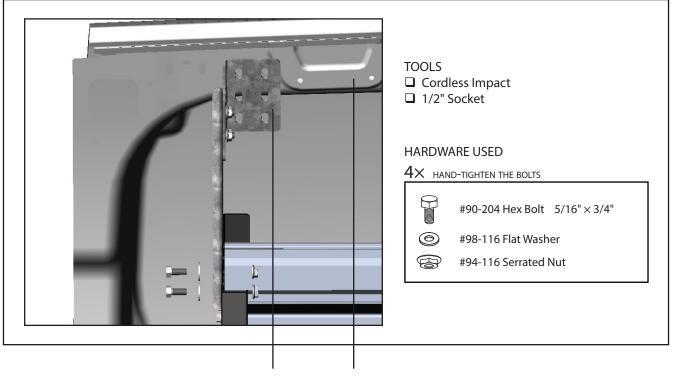
### PHASE 2 – INSTALLATION 2.1 ATTACH WALL BRACKETS TO THE END PANELS

#### 2.1.1 • Lift the assembled shelf to the vehicle, then put it in place.

• Attach the bracket arm to the panels aligning the brackets head to the horizontal rim of the vehicle.

NOTE: Handle with care.





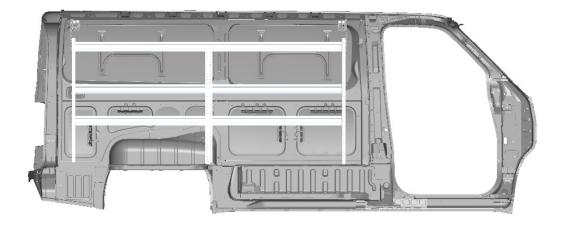
BRACKET HEAD HORIZONTAL RIM

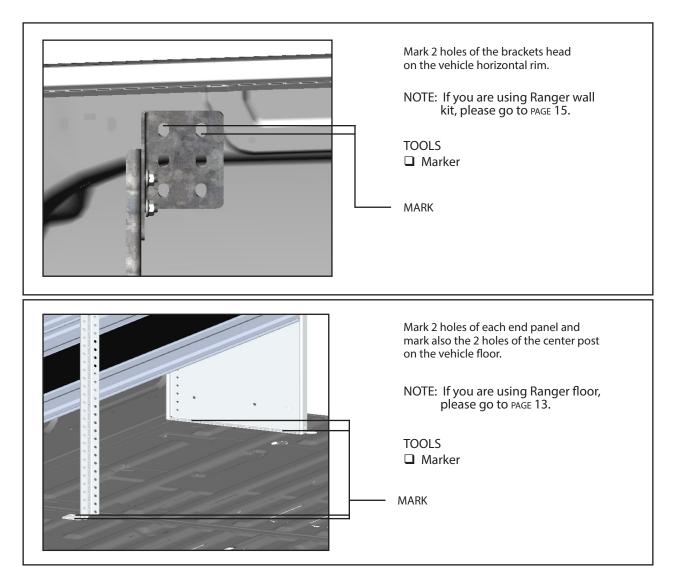




2.2 MARK HOLES FOR PLUS NUTS

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







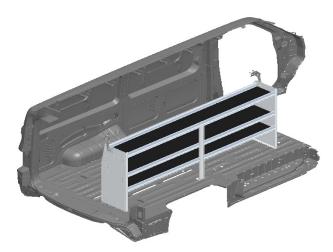
### 2.3 ATTACH PLUS NUTS

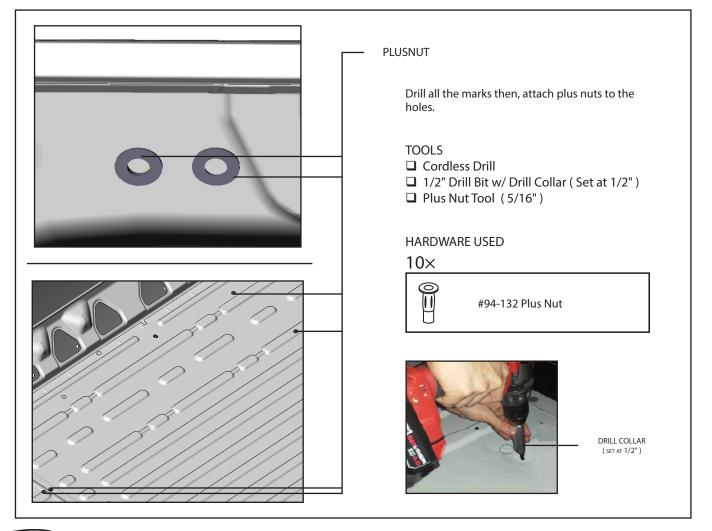
#### 2.3.1 • Lift the assembled shelf on the side.

• 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.

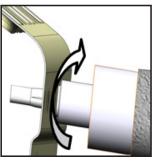




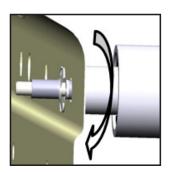


2.3.2 How to attach plus nut.

- 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.

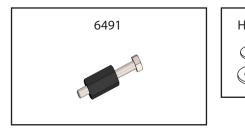


FORWARD



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"

 $\bigcirc$  Flat washer 5/16" BS  $\times$  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.





FORWARD

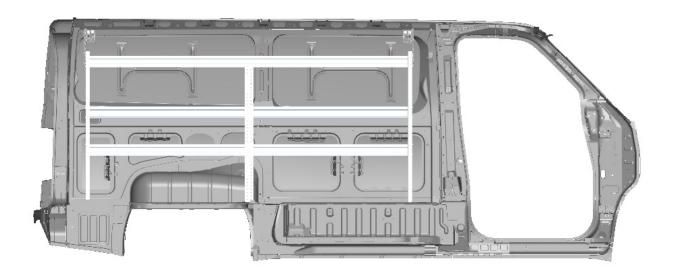
REVERSE

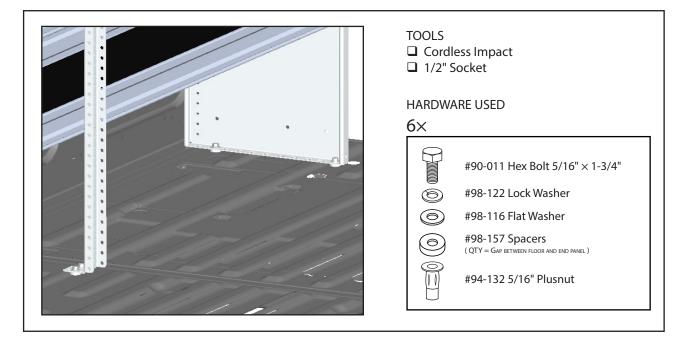


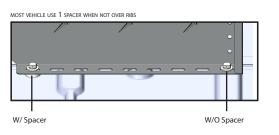
2.4 ATTACH SHELF UNIT TO THE FLOOR

### WITHOUT RANGER FLOOR

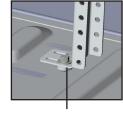
2.4.1 Put the assembled shelf back in place aligning the holes to the plusnuts, then install the end panels and center post to the plus nuts.







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



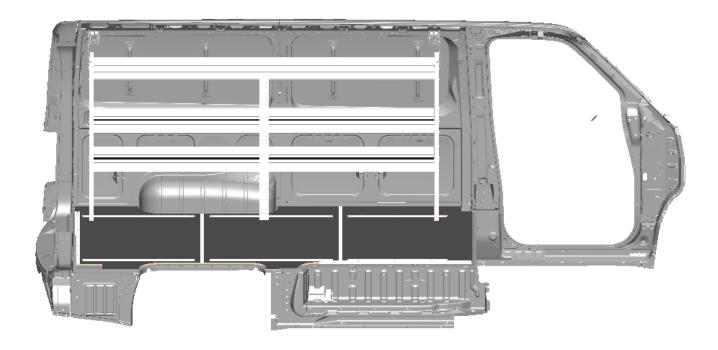


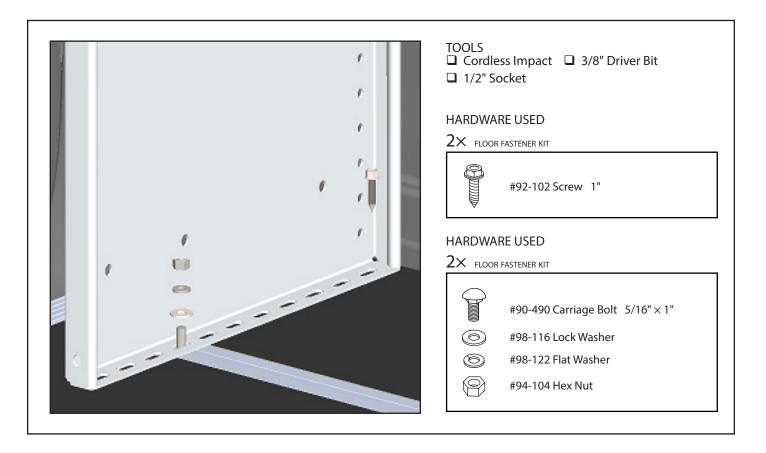
W/ Spacer



#### 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.





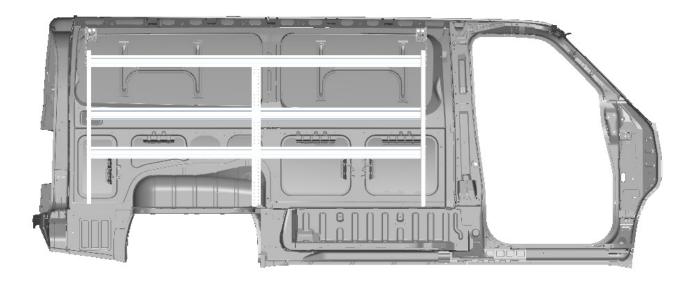


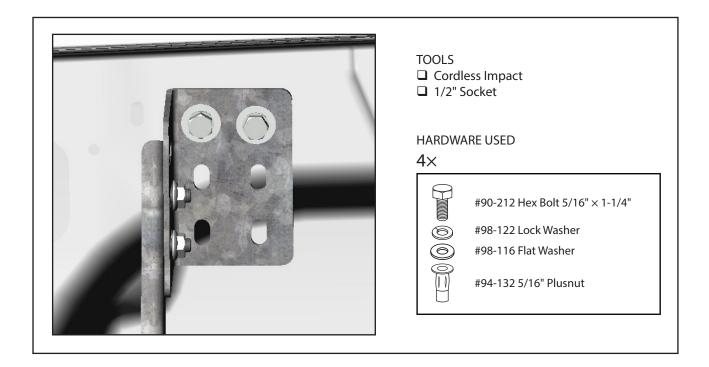
2.5 ATTACH WALL BRACKETS

### 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 1<sup>st</sup> before the bolts that used to attached the wall bracket to the end panel.

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



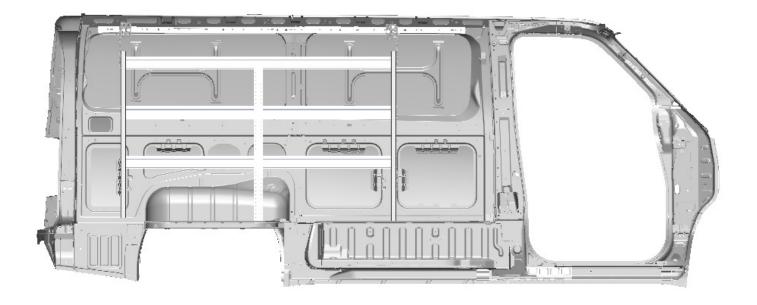


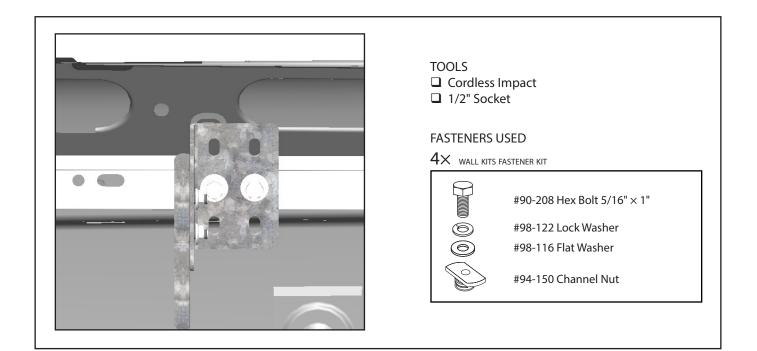


#### WITH RANGER WALL KITS

- 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 1<sup>st</sup> 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 N4-RA96-3

Thank you for doing business with us."

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



