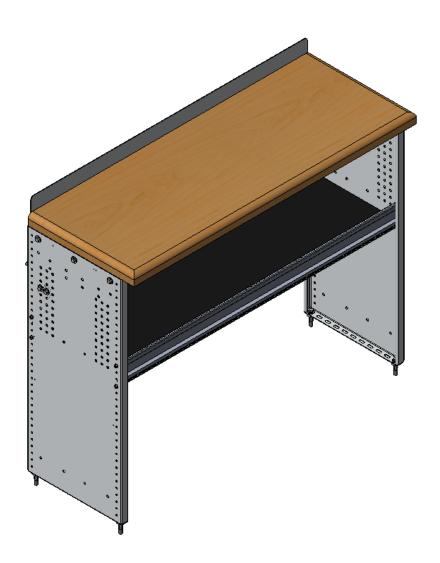
INSTALLATION GUIDE



S3-WA48-1 WORKBENCH

w/ Hardwood Top & One Shelf (Aluminum)



QUICK START GUIDE

Phase 1 - Assembly

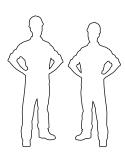
1.1	Setup	3 - 5
□ 1.2	Workbench Assembly	5 - 8

Phase 2 - Installation

□ 2.1 Attach Wall Brackets To The End Panels	9
□ 2.2 Mark Holes For Plus Nuts	
□ 2.3 Attach Plus Nut	. •
□ 2.4 Attach Partskeeper Cabinet To the Floor	
□ 2.5 Attach Wall Brackets	

□ Cordless Impact

REQUIRED ITEMS



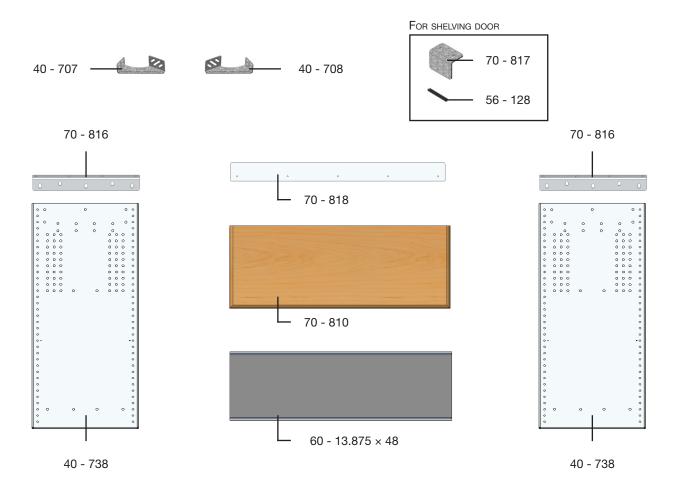
2 PERSONS

- □ Cordless Drill
 □ Tape Measure
 □ Marker
 □ 1/2" Socket
 □ 1/2" Drill Bit w/ Drill Collar (Set at 1/2")
 □ 3/16" Drill Bit
 □ 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.
40-707	Short Corner Cracket, Left	1
40-708	Short Corner Bracket, Right	1
40-738	End - Panel	2
56-128	Rubber Edge Trim (QTY IN INCHES)	2
60-13.875×48	Shelf Tray Plywood	1
70-810	Hardwood Top	1
70-816	Side Panel Bracket	2
70-817	Steel Striker Plate	1
70-818	Straight Backsplash	1
96-4802	Install Fastener Kit	1
94-4801	Assembly Fastener Kit	1

1.1.3 Fastener kits.

96 - 4802 Fastener Kit

Fastener Assembly

4×



90-204

Hex Bolt 5/16"-18 × 3/4" ZINC

×8



90-212

Hex Bolt 5/16"-18 × 1-1/4" ZINC

4×



#90-204 Hex Bolt 5/16" × 3/4"



#98-116 Flat Washer



#94-116 Serrated Nut

4×



94-116

Serrated Nut 5/16"-18 ZINC



8×



94-132

Plusnut

4×



#90-212 Hex Bolt 5/16" × 1-1/4"



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



#94-132 5/16" Plusnut

12×



98-116

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

8×



98-122

Lock Washer 5/16" ZINC

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



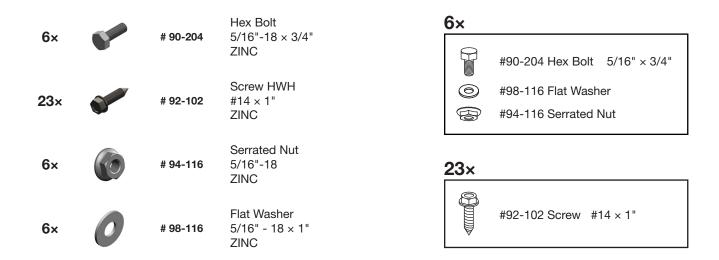
98-157

0.375" ID, × 1.0" OD × 0.25" LONG

NYLON

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

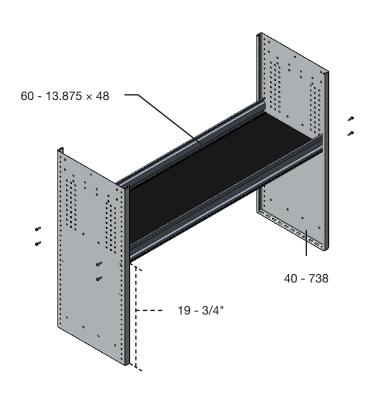
Fastener Assembly

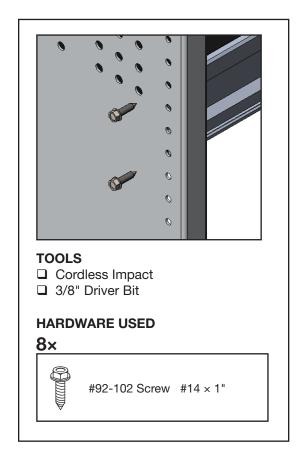


PHASE 1 - ASSEMBLY

1.2 WORKBENCH ASSEMBLY

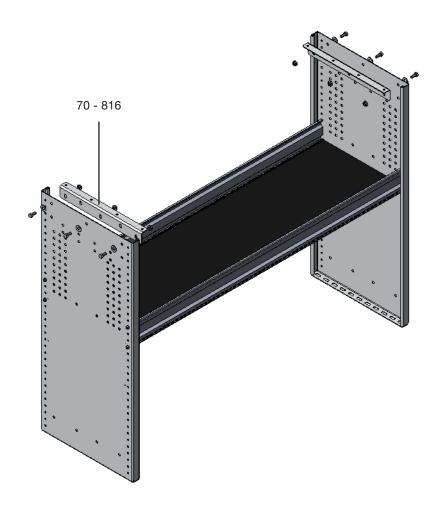
1.2.1 Attach both panels to the shelf tray.





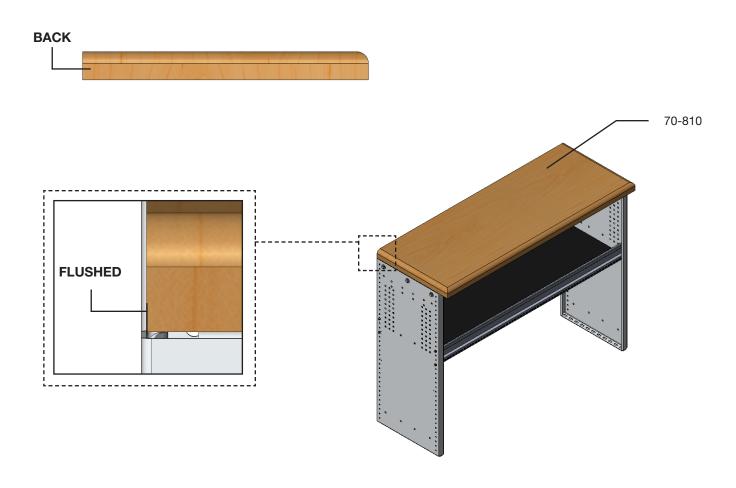


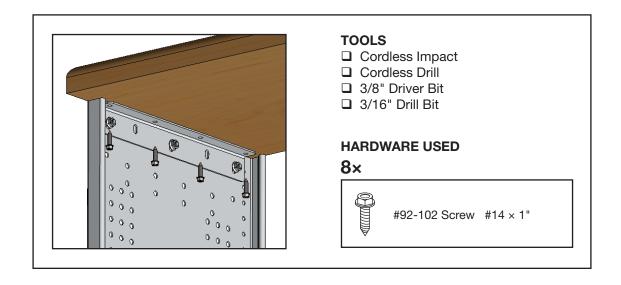
1.2.2 Attach side panels bracket to the end panel.





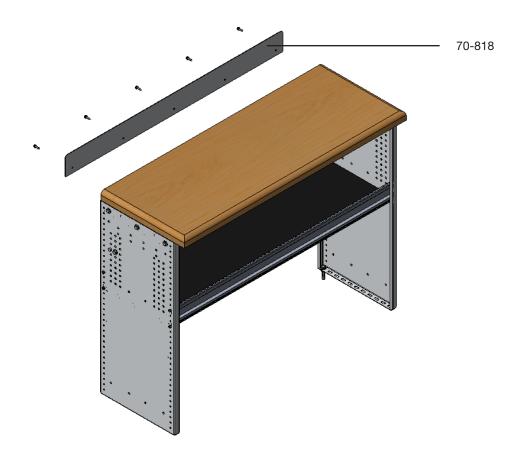
- **1.2.3** Screw the hardwood top on the side panel brackets with the back of the hardwood top flushed against one end of the panels.
- **NOTE:** Pre-drill the hardwood using 3/16" drill bit first before screwing the side panel brackets to the hardwood to prevent spliting the wood.

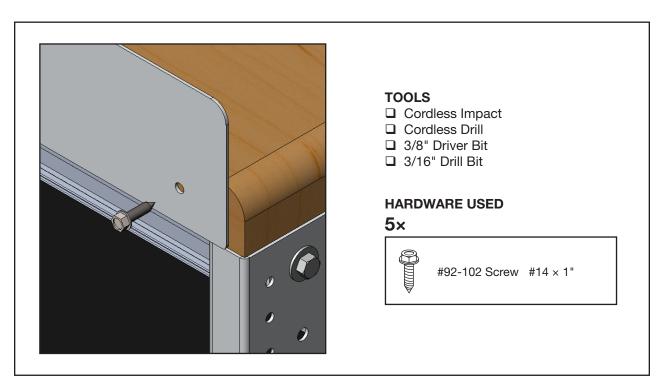




1.2.4 Screw the backsplash on the back end of the workbench.

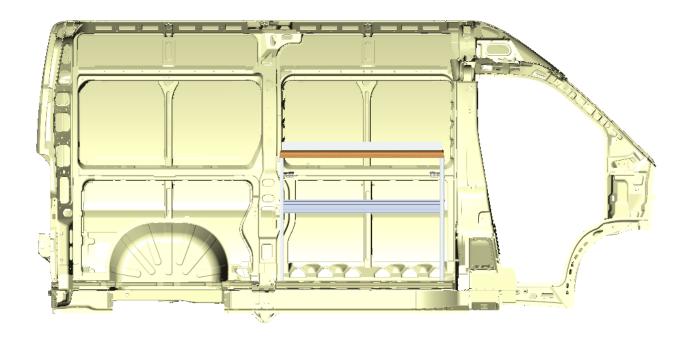
NOTE: Pre-drill the hardwood using 1/8" drill bit first before screwing the backsplash to the hardwood to prevent spliting the wood.

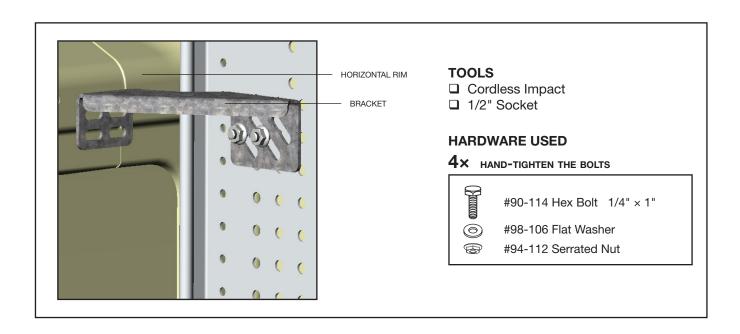




2.1 ATTACH WALL BRACKETS TO THE END PANELS

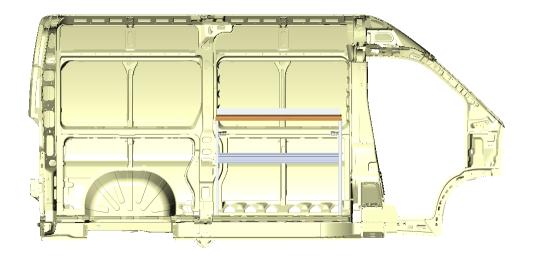
- **2.1.1** Lift the assembled workbench to the vehicle, then put it in place.
 - Attach the wall bracket to the panels aligning the brackets to the horizontal rim of the vehicle.

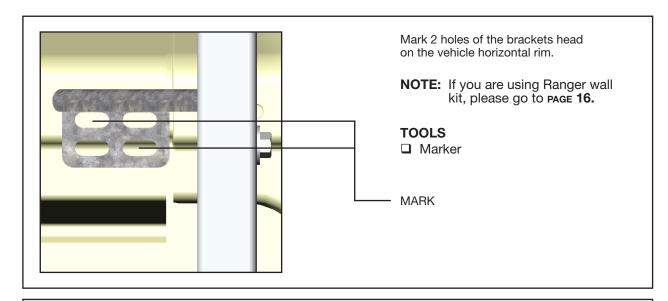


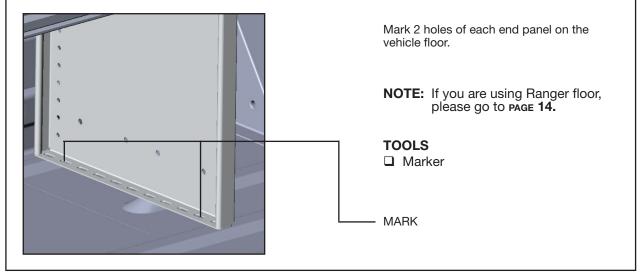


2.2 MARK HOLES FOR PLUS NUTS

2.2.1 After attaching the brackets, mark the holes from the brackets and bottom shelf to the vehicle.





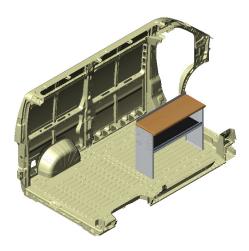


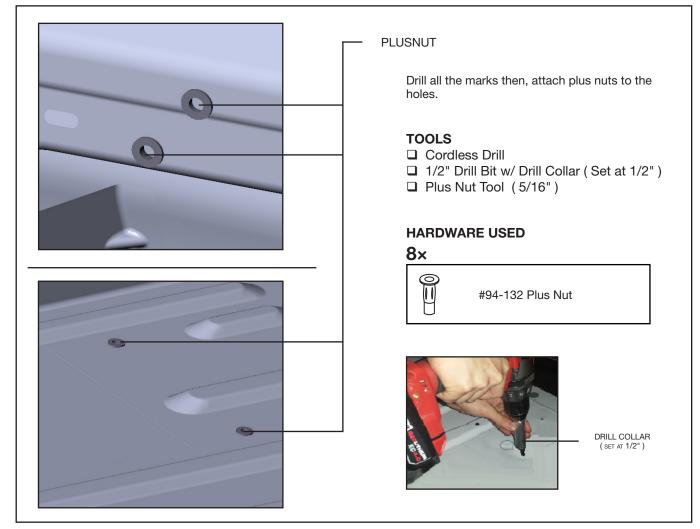
2.3 ATTACH PLUS NUTS

- **2.3.1** Remove the assembled workbench and place 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**.

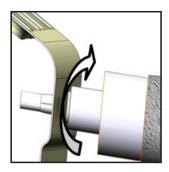


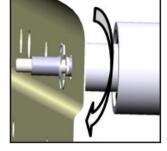


2.3.2 How to attach plus nut.

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.



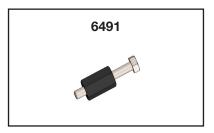


FORWARD

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 × 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.





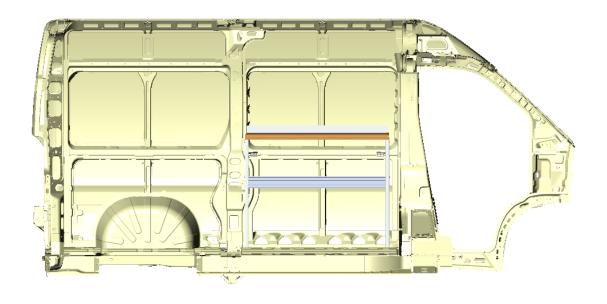
FORWARD

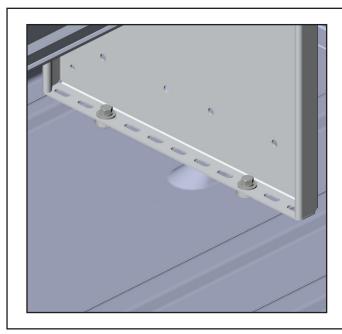
REVERSE

2.4 ATTACH SHELF UNIT TO THE FLOOR

WITHOUT RANGER FLOOR

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





TOOLS

- □ Cordless Impact
- ☐ 1/2" Socket

HARDWARE USED

4×



#90-212 Hex Bolt 5/16" x 1-1/4"



#98-122 Lock Washer



#98-116 Flat Washer

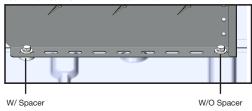


#98-157 Spacers (QTY = GAP BETWEEN FLOOR AND END PANEL)



#94-132 5/16" Plusnut

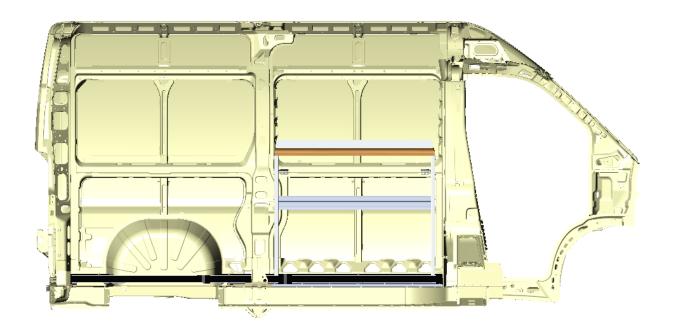
MOST VEHICLE USE 1 SPACER WHEN NOT OVER RIBS

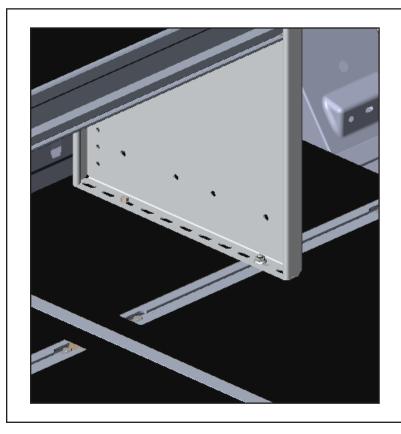




WITH RANGER FLOOR

- **2.4.2** Lift the workbench inside the van, then put it in place.
 - Install the workbench to the floor mounting track by sliding bolts in the mounting tracks, and screwing the bottom shelf to the floor.





TOOLS

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

HARDWARE USED

2x FLOOR FASTENER KIT



#92-102 Screw 1"

HARDWARE USED

2× FLOOR FASTENER KIT



#90-490 Carriage Bolt 5/16" x 1"



#98-116 Lock Washer



#98-122 Flat Washer



#94-104 Hex Nut

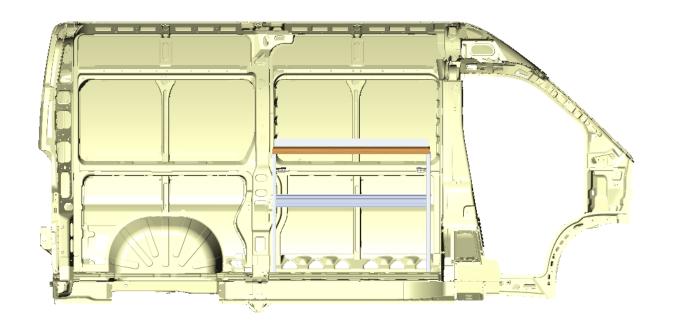
2.5 ATTACH WALL BRACKETS

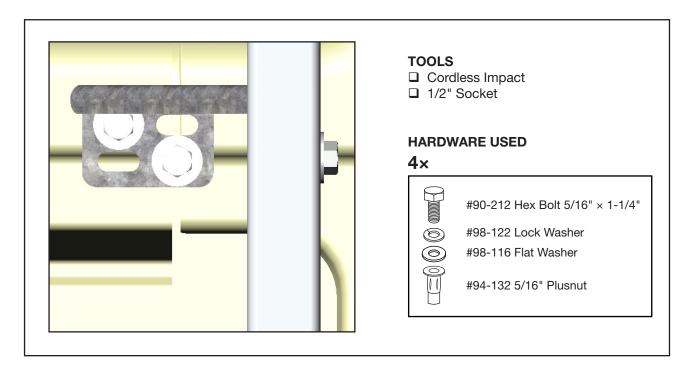
WITHOUT RANGER WALL KITS

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

NOTE: Tighten the bolts that attach the bracket to the wall or wall rails 1st before tightening the bolts from the brackets to the end panels.

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



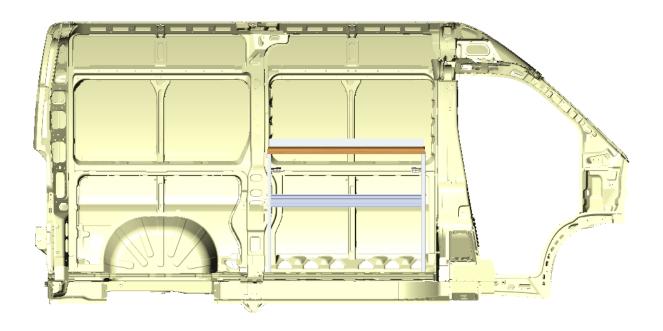


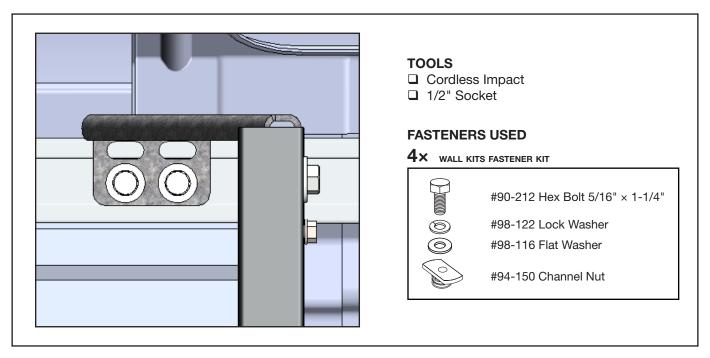
WITH RANGER WALL KITS

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

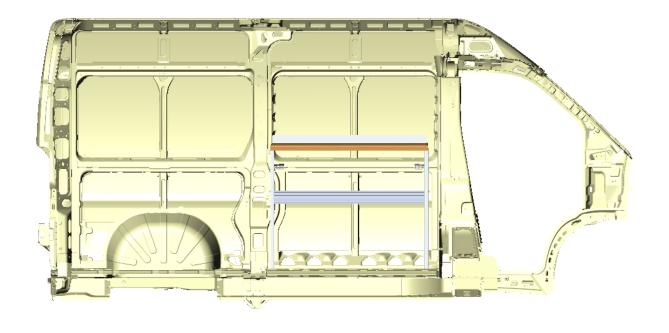
NOTE: Tighten the bolts that attach the bracket to the wall or wall rails 1st before tightening the bolts from the brackets to the end panels.

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









"You have successfully installed your Workbench

Thank you for doing business with us."

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



