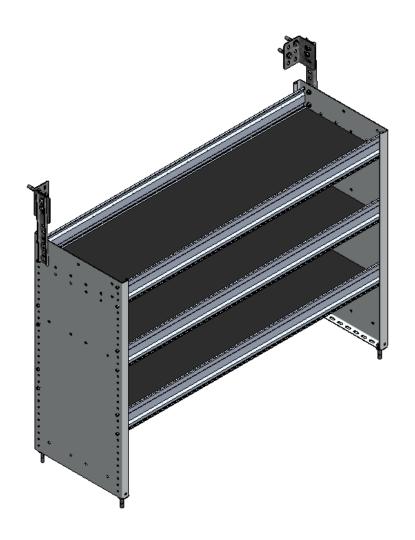
# **INSTALLATION GUIDE**



S3-RA48-3 Shelving (ALUMINUM)

Ram C/V Box Truck / Trailer



## **QUICK START GUIDE**

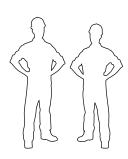
### Phase 1 - Assembly

□ 1.1 Setup	3 - 4
□ 1.2 Shelf Assembly	5 - 6
	5 - 0

### Phase 2 - Installation

☐ 2.1 Attach Wall Brackets To The End Panels	7
☐ 2.2 Mark Holes For Plus Nuts	8
□ 2.3 Attach Plus Nut	9 - 10
☐ 2.4 Attach Shelf Unit To the Floor	
□ 2.5 Attach Wall Brackets	
	12

## **REQUIRED ITEMS**



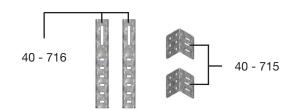
2 DEDSONS

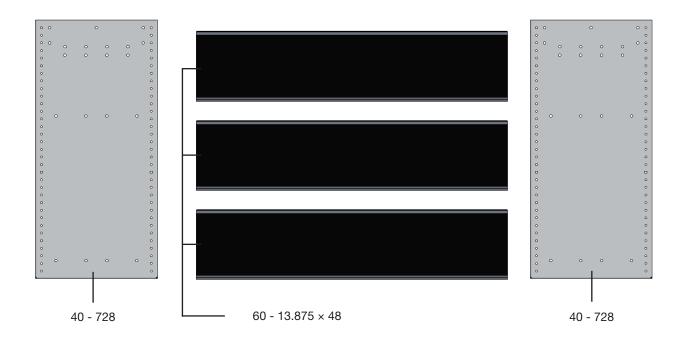
Ч	Cordiess impact
	Cordless Drill
	Tape Measure
	Marker
	1/2" Socket
	1/2" Drill Bit w/ Drill Collar (Set at 1/2")
	3/8" Driver Bit
	Knife
	Plusnut Tool / Plusnut Gun (5/16")

## 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 - 715	Bracket head	2
40 - 716	Bracket arm	2
40 - 728	End Panel	2
60 - 13.875 × 48	Shelf Tray, Black Plywood, Usable 14" × 48"	3
94 - 4027	Assembly Fastener Kit	1
96 - 4027	Install Fastener Kit	1

#### 1.1.3 Fastener kits.

#### 94 - 4027 Fastener Kit

### **Fastener Assembly**

8×



# 90-204

Hex Bolt 5/16"-18 × 3/4" GR-5 ZINC

24×



# 92-102

Screw HWH #14 × 1" ZINC

8×



# 94-116

Serrated Nut 5/16"-18 ZINC

8×



# 98-116

Flat Washer 5/16" - 18 × 1" ZINC 8×



#90-204 Hex Bolt 5/16" × 3/4"



#98-116 Flat Washer



#94-116 Serrated Nut

24×



#92-102 Screw #14 x 1"

### 96 - 4027 Fastener Kit

Fastener Assembly

4×



# 90-011

Hex Bolt 5/16"-18 × 1-3/4" GR-5 ZINC

4×



# 90-212

Hex Bolt 5/16"-18 × 1-1/4" GR-5 ZINC

8x



# 94-132

Plusnut

8×



# 98-116

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

8×



# 98-122

Lock Washer 5/16" ZINC

4×



# 98-157

Spacer 0.375" ID, × 1.0" OD × 0.25" LONG NYLON 4×



#90-212 Hex Bolt 5/16" × 1-1/4"



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



#94-132 5/16" Plusnut

4×



#90-011 Hex Bolt 5/16" × 1-3/4"



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



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



#94-132 5/16" Plusnut



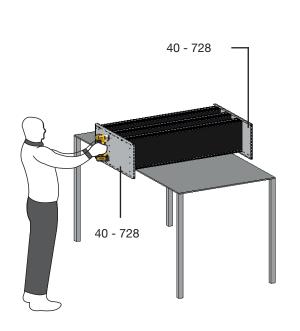
## PHASE 1 – ASSEMBLY

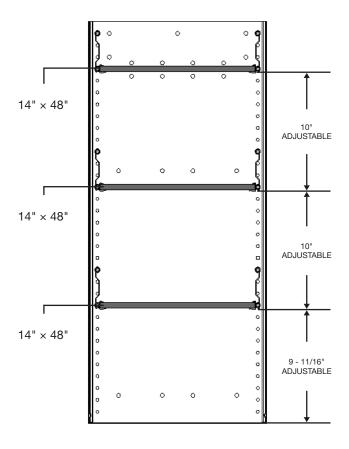
### 1.2 SHELF ASSEMBLY

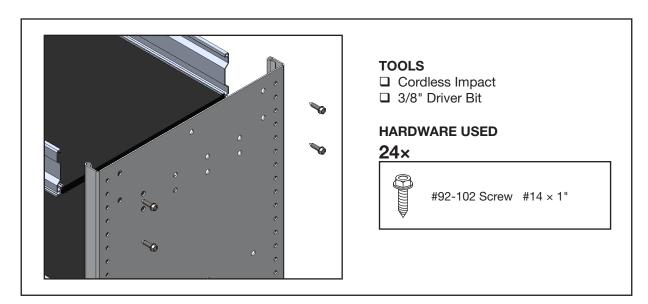
**1.2.1** Attach both panels to the shelf trays.

**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.

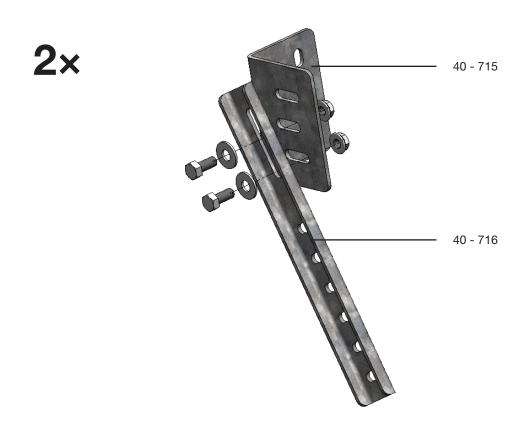






#### **1.2.2** Attach the bracket head to the bracket arm.

**NOTE:** Hand-tighten the bolts for adjustment.

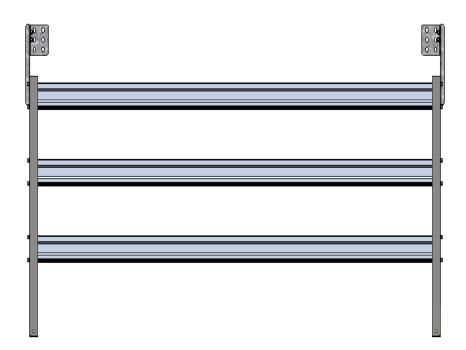


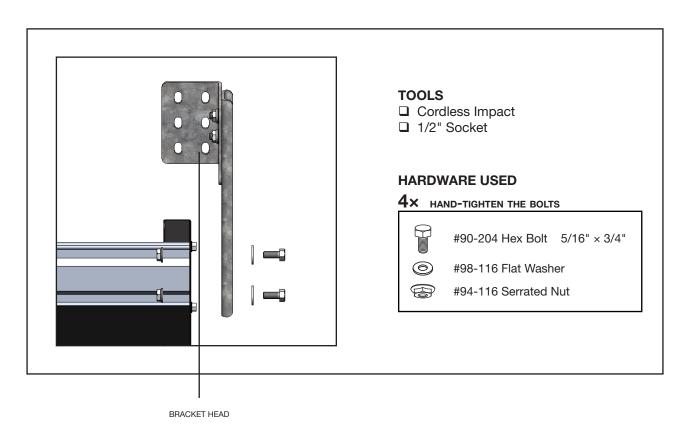


### 2.1 ATTACH WALL BRACKETS TO THE END PANELS

- **2.1.1** Lift the assembled shelf to the vehicle with care, then put it in place.
  - Attach the bracket arm to the panels aligning the brackets head to the structure of the van or truck.

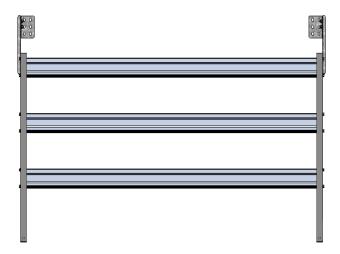
**IMPORTANT:** For **Box Trucks** and **Ram C/V**, make sure that the shelving is securely fastened to the structure of the truck or van.

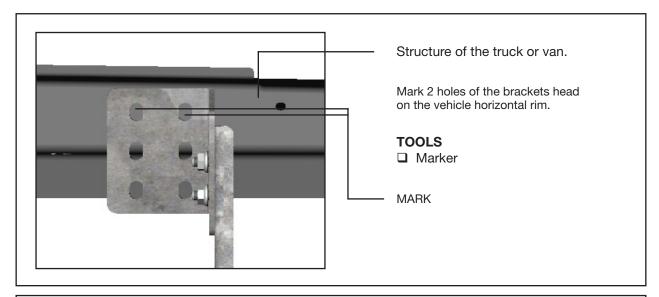


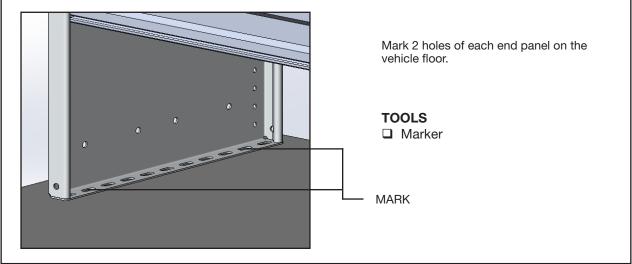


### 2.2 MARK HOLES FOR PLUS NUTS

**2.2.1** After attaching the brackets mark the holes on the brackets and end panels to the structure of the truck or van.







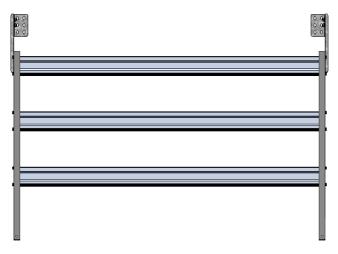


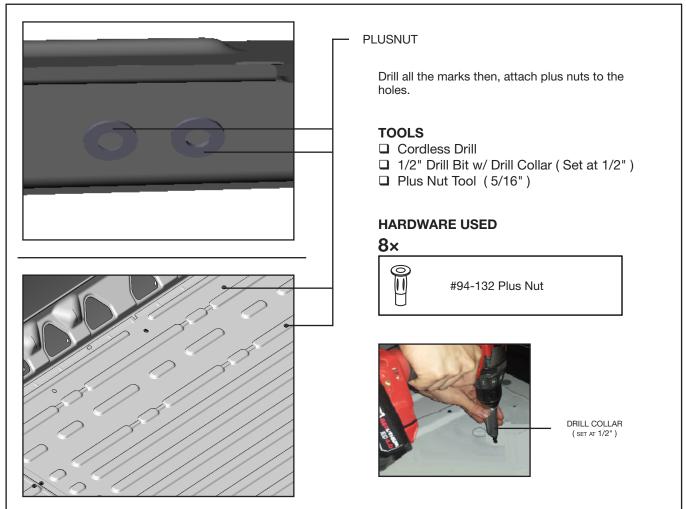
### 2.3 ATTACH PLUS NUTS

- **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**.

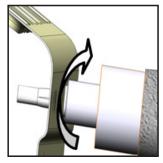




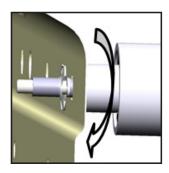
#### 2.3.2 How to attach plus nut.

#### 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.



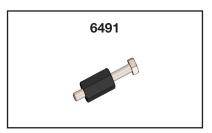
**FORWARD** 



**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  $\times$  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.



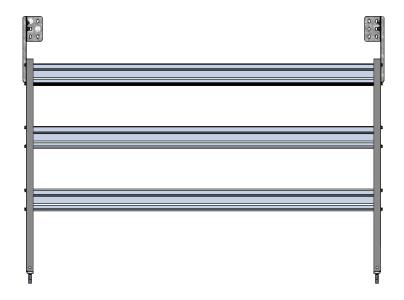


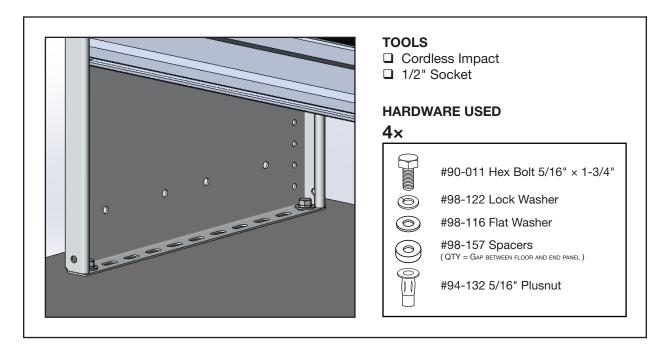


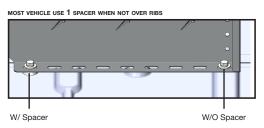
**REVERSE** 

### 2.4 ATTACH SHELF UNIT TO THE 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.







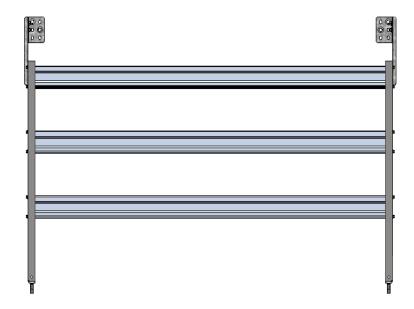


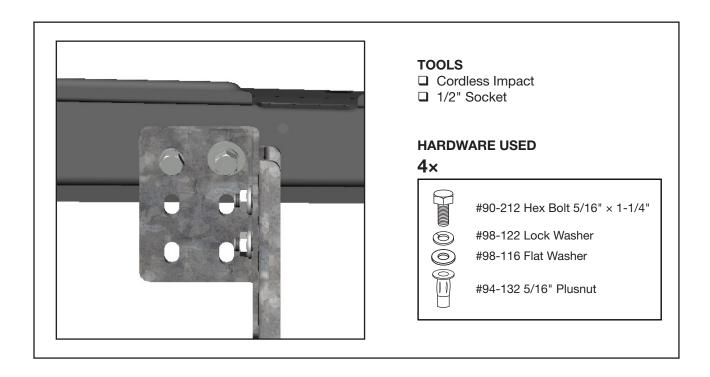
### 2.5 ATTACH WALL BRACKETS

2.5.1 Aligned the wall brackets to the plus nuts, then install the wall brackets to the structure of the truck or van.

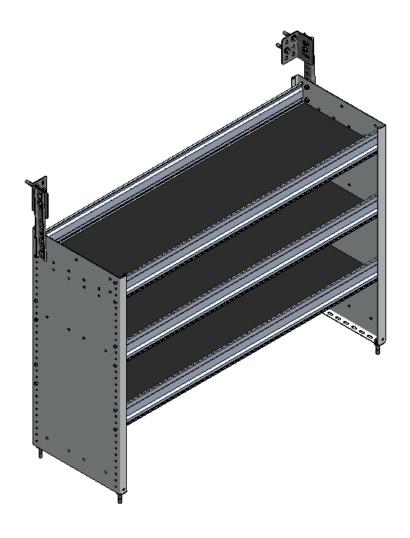
**NOTE:** Tightened the bolts that used to attached the wall bracket to the structure of the truck or van 1<sup>st</sup> before the bolts that used to attached the wall bracket to the end panel.

- **IMPORTANT:** For **Box Trucks** and **Ram C/V**, make sure that the shelving is securely fastened to the structure of the truck or van.
  - After installation is completed, ensure all bolts are tightened.









"You have successfully installed your \$3-RA48-3

Thank you for doing business with us."

For any feedback or suggestions you may have, please contact: <a href="mailto:cs@rangerdesign.com">cs@rangerdesign.com</a>

