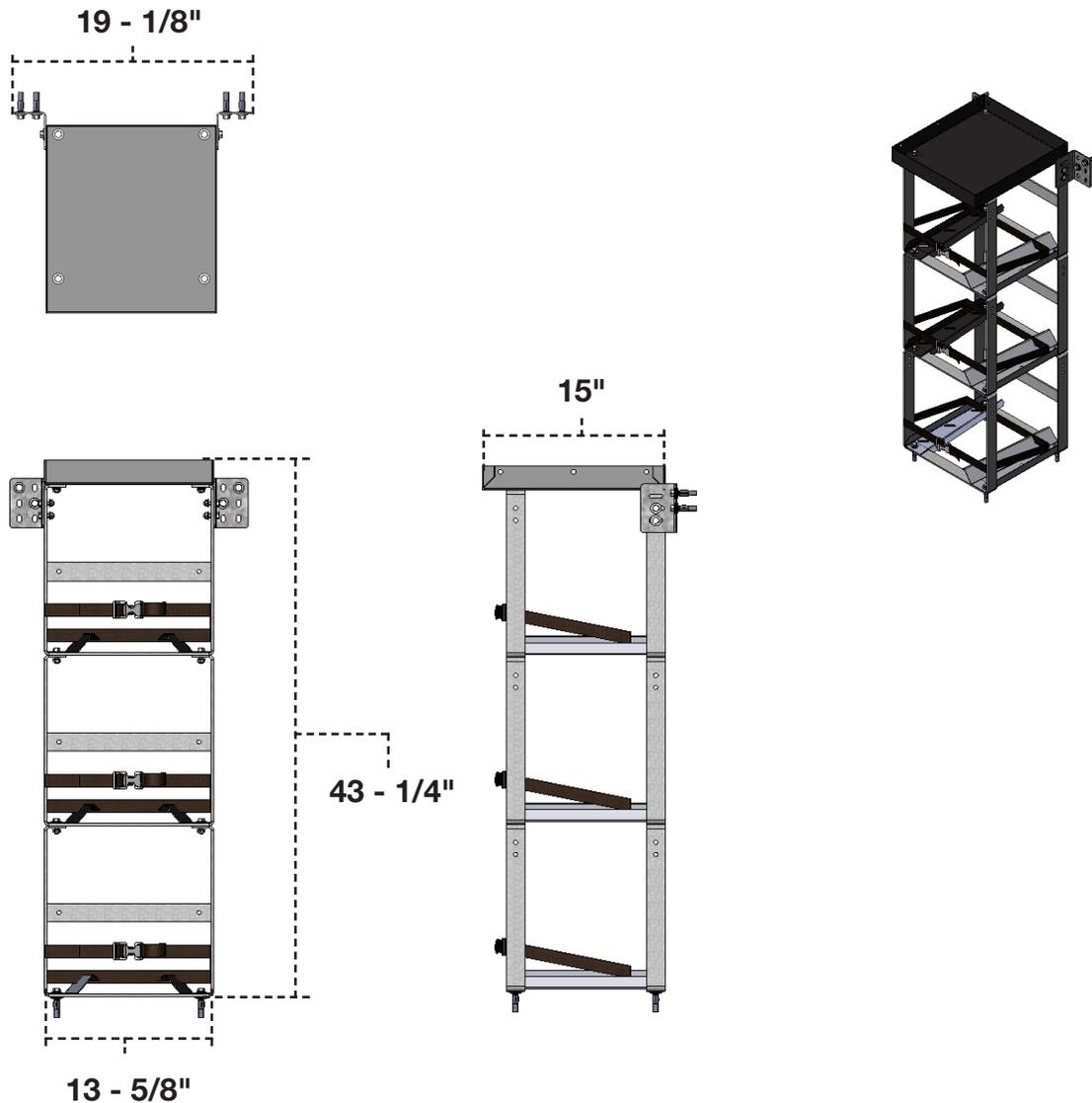


INSTALLATION GUIDE



6013-3 Steel Bottle Holder

For more information, visit rangerdesign.com





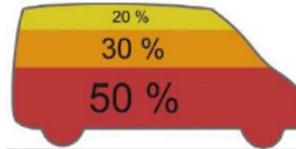
BEFORE YOU BEGIN

READ, UNDERSTAND, AND FOLLOW ALL WARNINGS AND INSTRUCTIONS BEFORE USING THIS PRODUCT. FAILURE TO FOLLOW THESE DIRECTIONS MAY RESULT IN PROPERTY DAMAGE, SERIOUS BODILY INJURY, AND/OR DEATH. RANGER DESIGN IS NOT RESPONSIBLE FOR ANY PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH THAT OCCURRED WHILE USING ANY RANGER DESIGN PRODUCTS.



WARNING

- Failure to use Ranger Design-provided fasteners, brackets, and proper installation guidelines could increase risk of serious personal injury and/or death.
- If drilling is required to complete this installation: improper drilling can cause property damage to vehicles and could lead to electric shock, fire, or even death.
- If drilling is required to complete this installation: Ensure that drilling is only performed on areas of the vehicle allowed by the vehicle's Original Equipment Manufacturer's Body Builders Layout Book (or equivalent document).
- Prior to installation, inspect the vehicle to ensure that installation will not interfere with, or cause obstruction of, any critical components such as electrical wiring, fuel tanks, fuel-cells, locks, latches, etc.
- The installer or manufacturer is responsible for ensuring anchorages are installed onto suitable wall and floor structures; wall and floor strength must meet applicable performance requirements.
- Do not install systems into any weak or unsound materials such as plastics, woods, thin-walled metals, etc. without proper reinforcement.
- Do not install this product where it could interfere with the deployment of airbags. Failure to comply could result in death or serious injury.
- Do not install this product where it could ingress on the Transit Occupant Protection Zone. Failure to comply could result in death or serious injury.
- Incorrect installation could cause water leaks, electric shock or fire.
- Any cargo vehicle with any cargo or equipment should use a certified partition. See Ranger Design website for some partition options. (<https://rangerdesign.com/>)
- Mountings rails are recommended for any attachment to the vehicle walls.
- All items in the cargo area should be properly secured and partition doors closed while the vehicle is in motion.
- Check your vehicle's tare weight and remaining load capacity with all the equipment installed. Never exceed the maximum Gross Vehicle Weight Rating (GVWR), Gross Axle Weight Ratings (GAWRs), or other maximum loads permitted by the vehicle's Original Equipment Manufacturer (OEM) and required by law.
- The heaviest items must be placed towards the bottom of the vehicle, while the lightest ones can be arranged upwards. Vehicle cargo loading weight proportion should follow the following guidelines:



- The final alterer and/ or modifier should review the warning sheet with the customer before the vehicle is released to the customer or for general use. These instructions should remain with the vehicles a all times.
- Any modification or unintended use of this product voids any warranty and could create a hazardous condition.
- Ranger Design provides recommended assembly and installation instructions which should be followed to ensure correct operation. Failure to do so could result in invalidating the product's compliance, warranty and cause injury. Notwithstanding, the final stage vehicle alterer and/or modifier is responsible for the integration, installation, and compliance of the product in its final location to all applicable regulations and standards. Failure to maintain compliance of the vehicle to applicable regulations and standards could be punishable by law. Alterers and/or modifiers should consult with all local authorities prior to commissioning.



CAUTION

- Drilling is required to complete this installation. Before drilling, ensure that you will not hit any critical parts of the vehicle like the gas tank, wiring harness, or hose. Consult the vehicle OEM documentation as necessary. When drilling, use a drill collar to reduce the risk of damage to the vehicle.
- Any materials, padding, or glazing installed in the vehicle must comply with FMVSS/CMVSS 201/205/302, as applicable.
- In the event of a motor vehicle accident or collision where a Ranger system has been installed, especially ones where the vehicle structure is damaged and/or the air bags deploy and/or the vehicle has been towed, the system must be inspected to ensure continued soundness and safety before returning the vehicle to service. Damaged components should be replaced as necessary.
- All system components should be regularly inspected, cleaned, and maintained pursuant to Ranger guidelines.

QUICK START GUIDE

PHASE 1 - ASSEMBLY

<input type="checkbox"/> 1.1 Setup.....	4
<input type="checkbox"/> 1.2 Bottle Holder Assembly.....	6

PHASE 2 - INSTALLATION

<input type="checkbox"/> 2.1 Bottle Holder Installation with bracket.....	7
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REQUIRED ITEMS

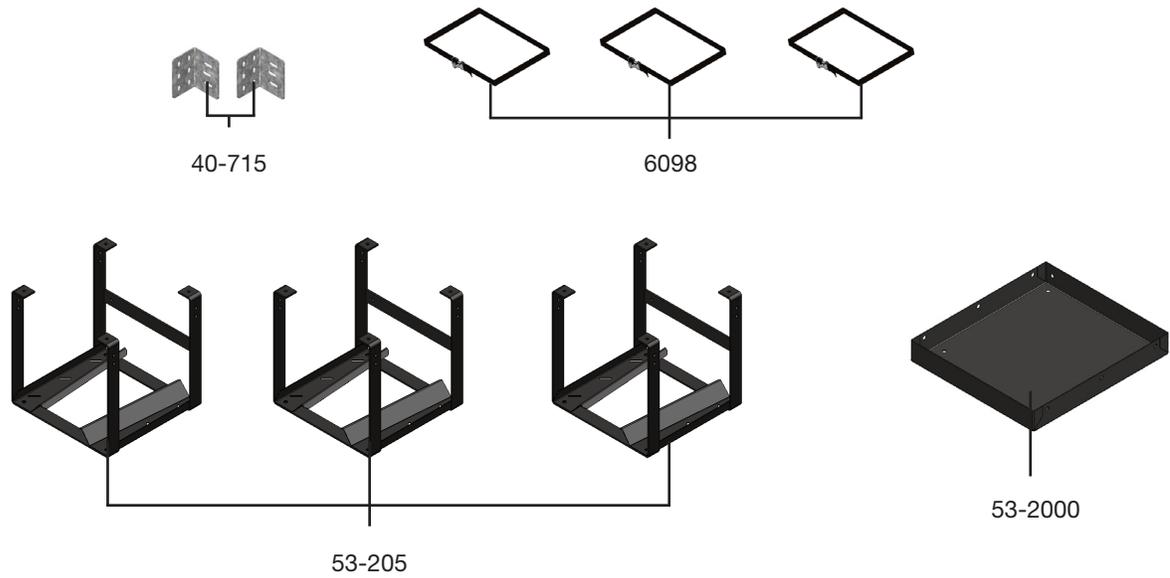


1
PERSONS

- Cordless Drill
- Cordless Impact
- 3/8" Drill Bit
- 1/2" Socket
- Marker
- Knife

PHASE 1 – ASSEMBLY

1.1 SETUP



1.1.1 Verify all parts are present.

Item No.	Description	Qty.
6098	Black Strap	3
40-715	Bracket	2
53-2000	Top Tray	1
53-205	Steel Bottle Holder	3
94-6033	Customer Assembly Fastener Kit	1
96-6033	Customer Install Fastener Kit	1

1.1.2 Fastener kits.

94 - 6033 Fastener Kit



Fastener Assembly

- 16x  # 90-208 Hex Bolt
5/16"-18 x 1"
GR-5 ZINC
- 16x  # 94-116 Serrated Nut
5/16"-18
ZINC
- 16x  # 98-116 Flat Washer
5/16", O.D. 7/8"
ZINC

16x

-  #90-208 Hex Bolt 5/16" x 1"
-  #98-116 Flat Washer
-  #94-116 Serrated Nut

96 - 6033 Fastener Kit



Fastener Assembly

- 4x  # 90-212 Hex Bolt
5/16"-18 x 1-1/4"
GR-5 ZINC
- 4x  # 90-011 Hex Bolt
5/16"-18 x 1-3/4"
GR-5 ZINC
- 8x  # 94-132 Plusnut
- 8x  # 98-116 Flat Washer
5/16", O.D. 7/8"
ZINC
- 8x  # 98-122 Lock Washer
5/16"
ZINC
- 12x  # 98-157 Spacer
0.375" ID, x 1.0" OD x 0.25" LONG
NYLON

4x FOR VEHICLE WALL INSTALL

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

4x

-  #90-011 Hex Bolt 5/16" x 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

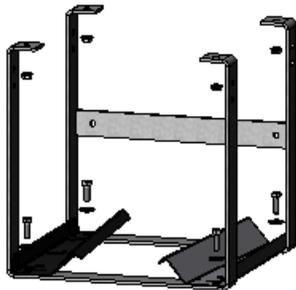
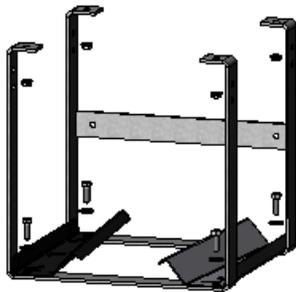
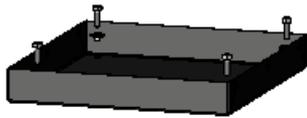
4x FOR SHELVING SIDE PANEL INSTALL

-  #90-212 Hex Bolt 5/16" x 1-1/4"
-  #98-116 Flat Washer
-  #98-157 Spacers (2x)
-  #94-116 Serrated Nut
(USE THE ONE FROM 94-6033)

PHASE 1 – ASSEMBLY

1.2 BOTTLE HOLDER ASSEMBLY

1.2.1 Assemble the steel bottle holder as shown.



TOOLS

- Cordless Impact
- 1/2" Socket

HARDWARE USED

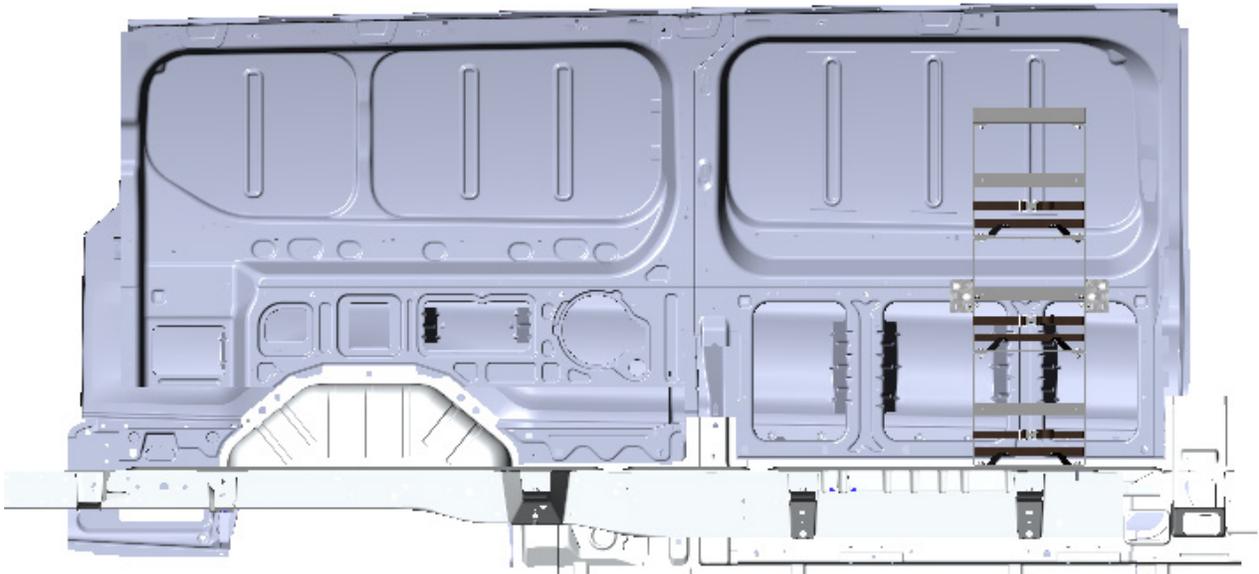
12x HAND-TIGHTEN THE BOLTS

	#90-208 Hex Bolt 5/16" x 1"
	#98-116 Flat Washer
	#94-116 Serrated Nut

PHASE 2 – INSTALL

2.1 BOTTLE HOLDER INSTALLATION WITH BRACKET

- 2.1.1
- Lift the assembled bottle holder to the vehicle, then put it in place.
 - Attach the bracket to the bottle holder aligning the brackets to the horizontal rim of the vehicle.



BRACKET HORIZONTAL RIM

NOTE: You can drill holes in steel bottle holder for bracket if needed.

HARDWARE USED

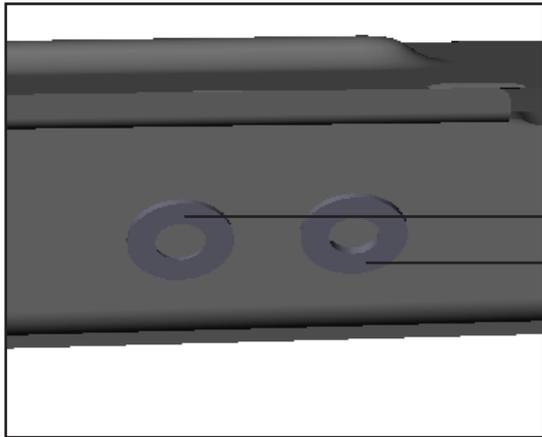
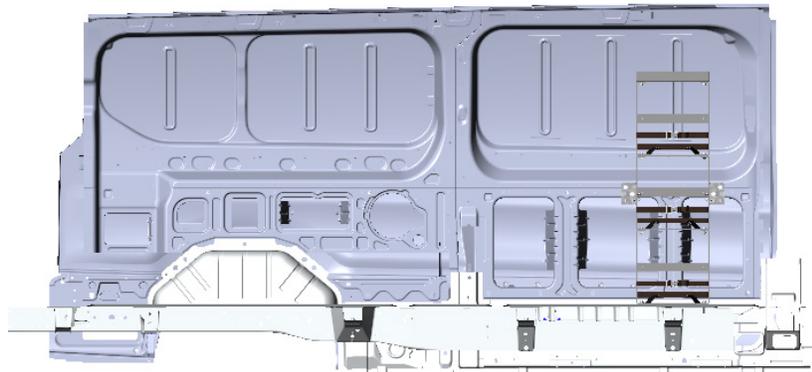
4x HAND-TIGHTEN THE BOLTS

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

- 2.1.2**
- After attaching the brackets mark the holes on the brackets and the 4 holes on the bottom bottle holder to the vehicle.
 - 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.**



PLUSNUT

Drill all the marks then, attach plus nuts to the holes.

TOOLS

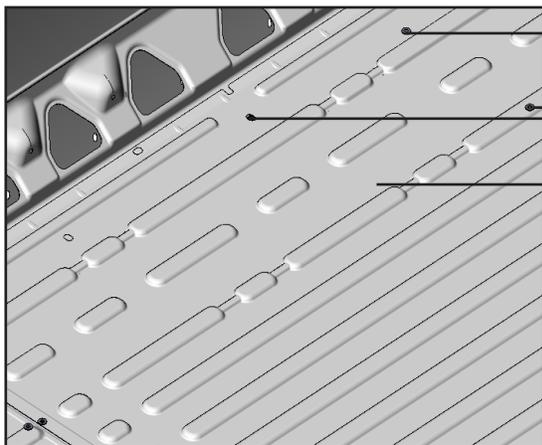
- Cordless Drill
- 1/2" Drill Bit w/ Drill Collar (Set at 1/2")
- Plus Nut Tool (5/16")

HARDWARE USED

8x



#94-132 Plus Nut

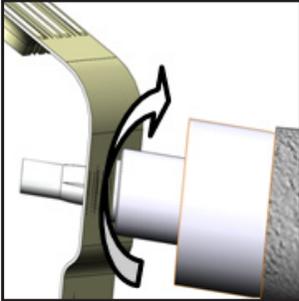


DRILL COLLAR
(SET AT 1/2")

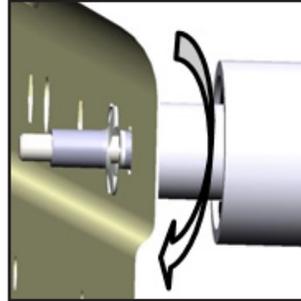
TIPS: How to attach plus nut.

• **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.



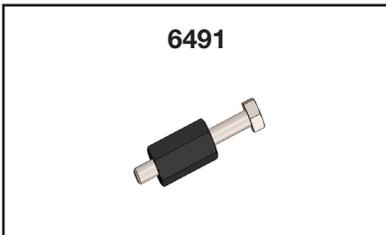
FORWARD



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.



6491

HARDWARE USED

-  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 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.

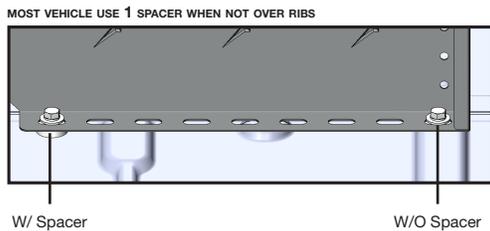
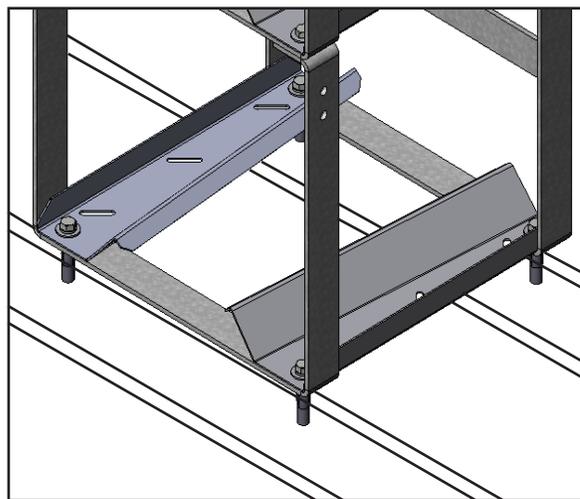
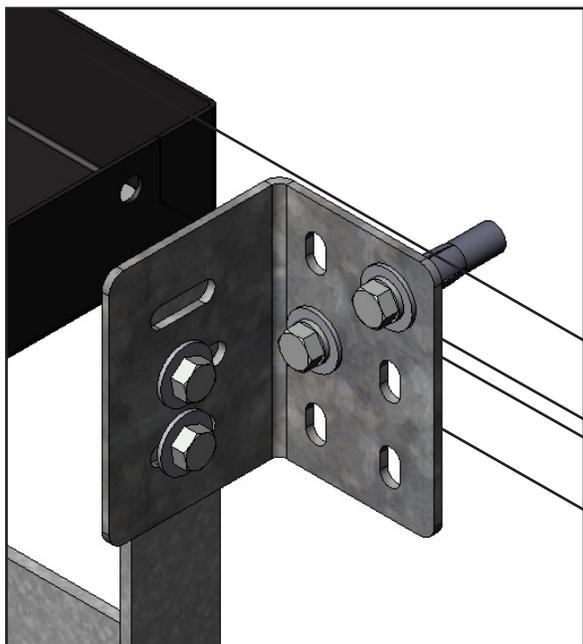
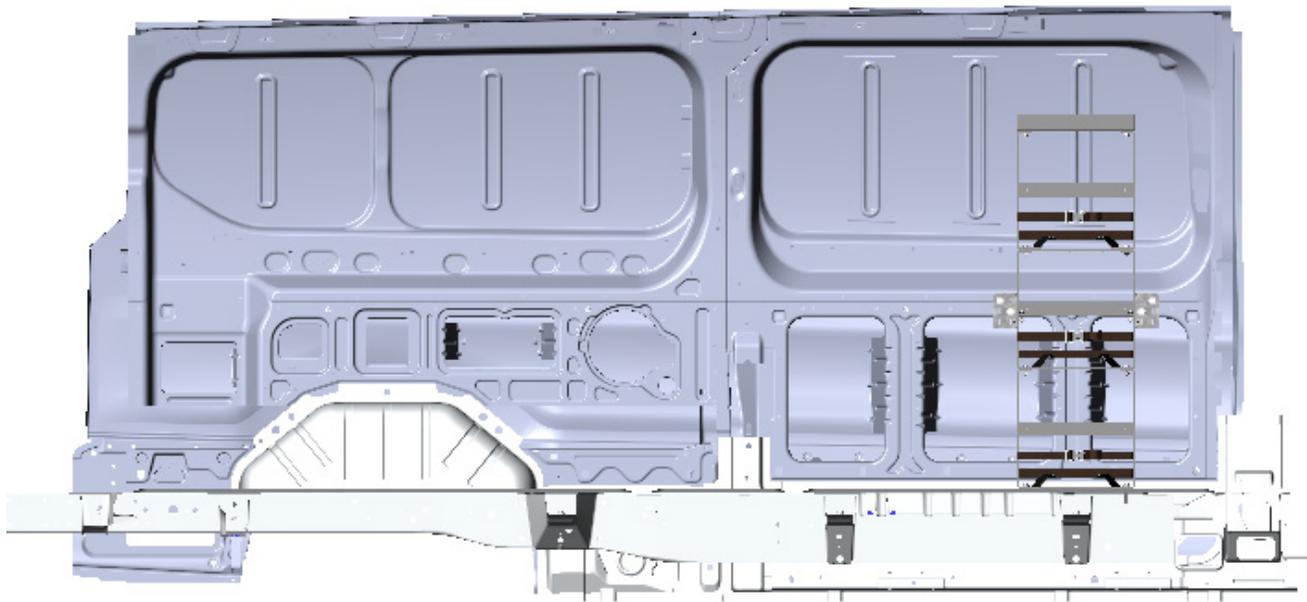


FORWARD



REVERSE

2.1.3 Put the assembled bottle holder back in place aligning the holes to the plusnuts, then install the bottle holder to the plus nuts.

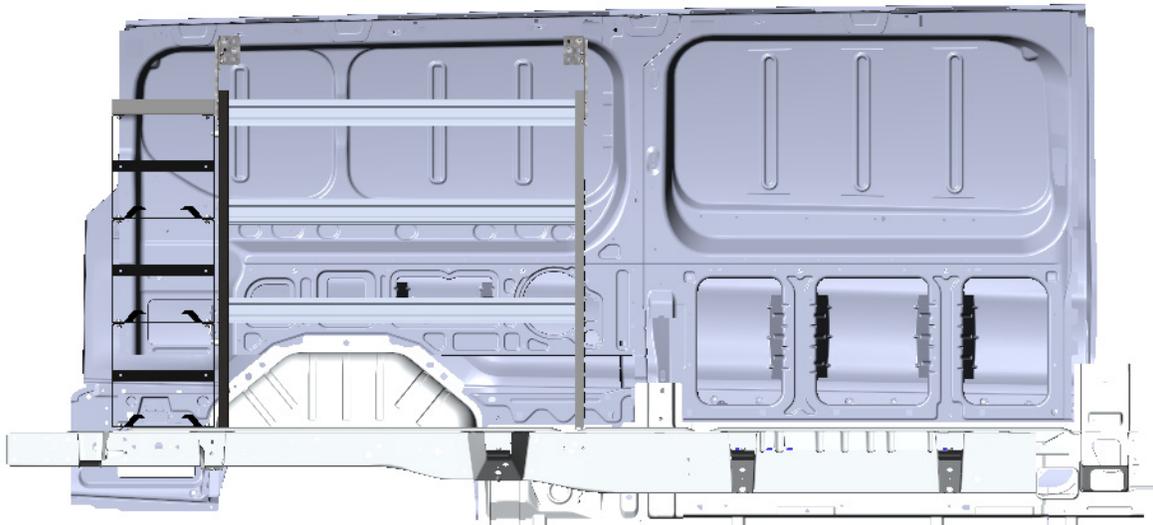


PHASE 2 – INSTALL

2.2 BOTTLE HOLDER INSTALLATION IN SHELVING SIDE PANEL

- 2.2.1**
- Put the steel bottle holder in place, then follow STEP 2.1.2 for floor mounting (attaching plusnut).
 - After attaching the plusnut to the floor attach the bottle holder on the shelving side panel and vehicle floor.

NOTE: This step show how to attach the side of the steel bottle holder to the shelving side panel, don't forget that you still need to attach the steel bottle holder to the floor using plusnut (STEP 2.1.2 TO 2.1.3).



NOTE: You can drill holes in shelving side panel if needed.

HARDWARE USED

4x

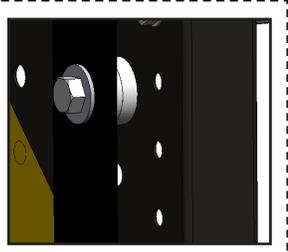
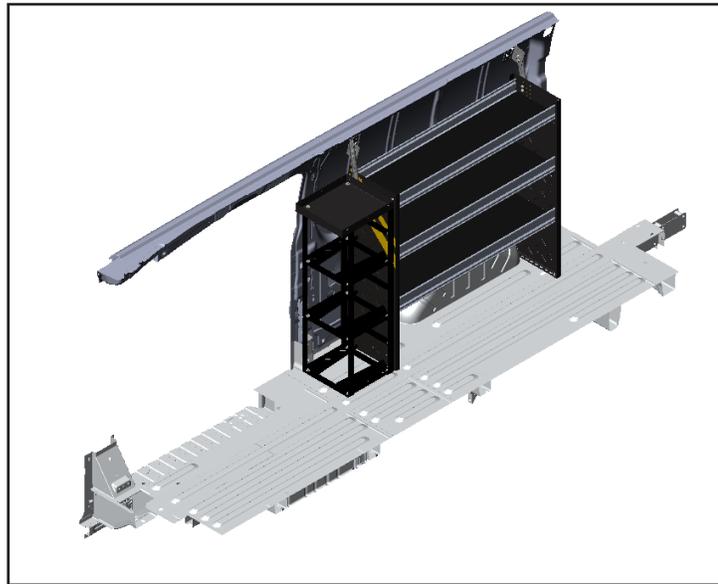
	#90-212 Hex Bolt 5/16" x 1-1/4"
	#98-116 Flat Washer
	#98-157 Spacers (2x)
	#94-116 Serrated Nut (USE THE ONE FROM 94-6033)

PHASE 2 – INSTALL

2.3 BOTTLE HOLDER INSTALLATION FACING IN THE CAB

- 2.3.1**
- Put the steel bottle holder in place, then follow STEP 2.1.2 for floor mounting (attaching plusnut).
 - After attaching the plusnut to the floor attach the bottle holder on the shelving side panel and vehicle floor.

NOTE: This step show how to attach the side of the steel bottle holder to the shelving side panel, don't forget that you still need to attach the steel bottle holder to the floor using plusnut (STEP 2.1.2 TO 2.1.3).



NOTE: You can drill holes in shelving side panel if needed.

HARDWARE USED

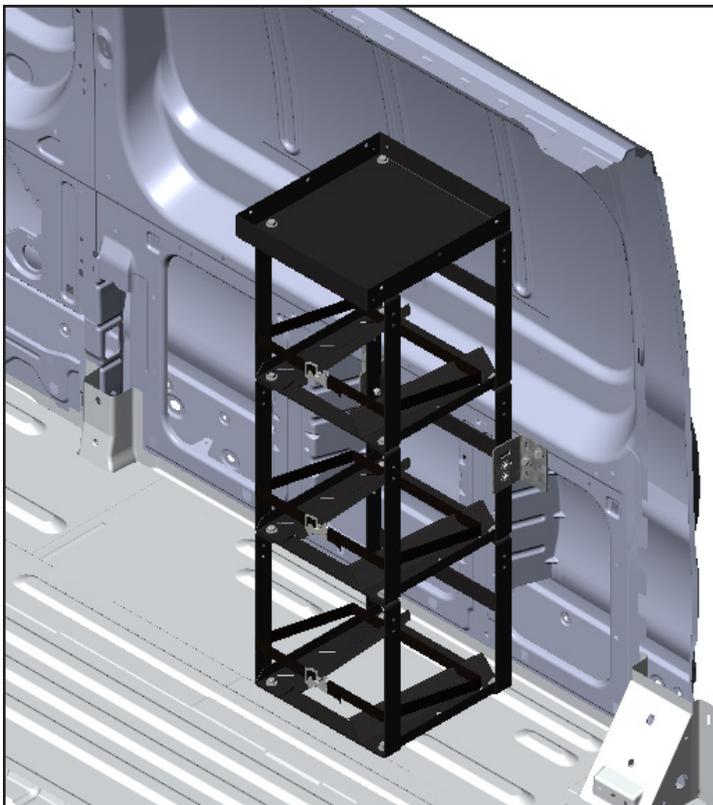
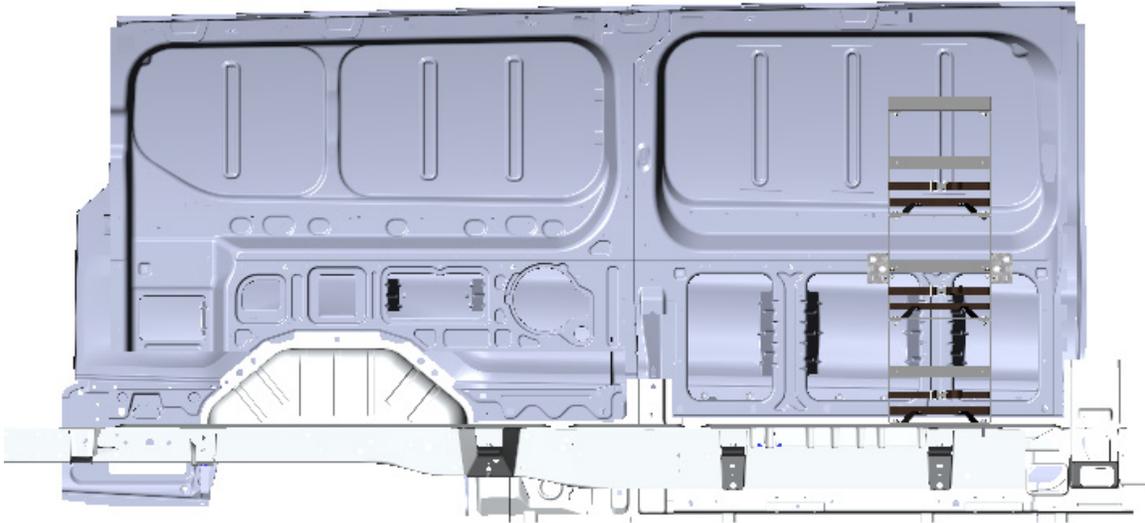
4x

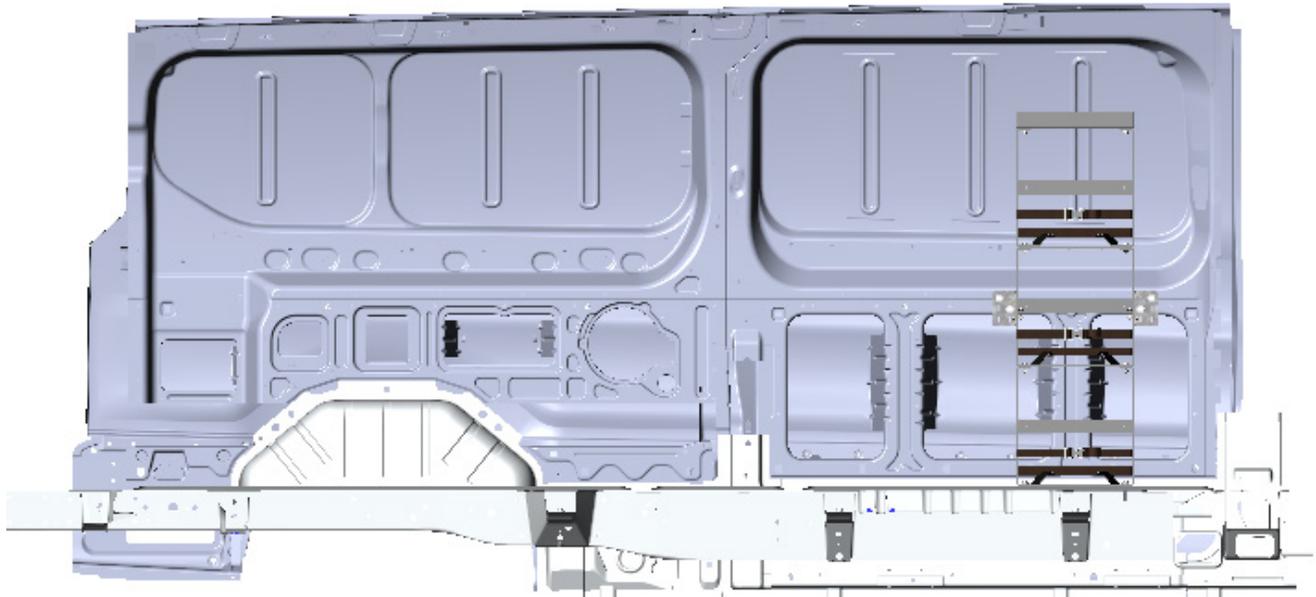
	#90-212 Hex Bolt 5/16" x 1-1/4"
	#98-116 Flat Washer
	#98-157 Spacers (2x)
	#94-116 Serrated Nut (USE THE ONE FROM 94-6033)

PHASE 2 – INSTALL

2.4 BOTTLE HOLDER INSTALLATION FACING IN THE CAB

2.4.1 After installation is complete attach the strap on the bottle holder as shown.





**“You have successfully installed your
Steel Bottle Holder**

Thank you for doing business with us.”

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

