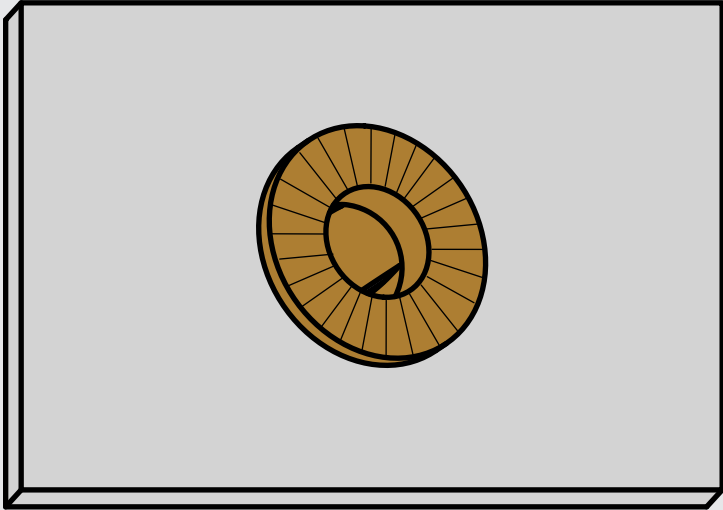


Owner's Manual

Plusnut Guide

This Owner's Manual provides assembly, install and user guidance. It applies to all **Plusnuts** sold by Ranger Design.

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Scan the QR code for the latest Installation Guide. For more information, visit rangerdesign.com.



This Owner's Manual must remain in vehicle at all times.

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Warnings

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 OCCURS WHILE USING ANY RANGER DESIGN PRODUCTS.

THE FINAL ALTERER AND/OR MODIFIER SHOULD REVIEW THE WARNING SHEET WITH THE CUSTOMER BEFORE THE VEHICLE IS RELEASED TO THE CUSTOMER FOR GENERAL USE. THESE INSTRUCTIONS SHOULD REMAIN WITH THE VEHICLE AT ALL TIMES.

WARNINGS – Prior To Starting

- Ranger Design products must be assembled and installed by individuals qualified to use the tools required and have experience with similar products. If there is any question as to competence or experience, please contact a professional alterer or modifier.
- Failure to use Ranger Design-provided fasteners, brackets, and proper installation guidelines could increase risk of serious personal injury and/or death.
- 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 final alterer and/or modifier is responsible for ensuring all equipment is sufficiently secured to wall and floor structures or suitable anchorages.
- 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 Vehicle 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 which can be found on the Ranger Design website. (<https://rangerdesign.com>)
- Mounting rails and floors are strongly recommended for any attachment to the vehicle and can be found on the Ranger Design website. (<https://rangerdesign.com>)
- 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 must be followed to ensure correct operation. Failure to do so could invalidate the product's compliance and/or warranty and cause injury.
- The final stage vehicle alterer and/or modifier is responsible for the integration, installation, and compliance of the product in its final location with all applicable regulations and standards. Failure to maintain compliance of the vehicle with applicable regulations and standards could be punishable by law. Alterers and/or modifiers should consult with all local authorities prior to commissioning.

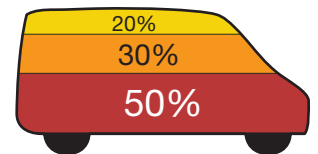
- Any materials, padding, or glazing installed in the vehicle must comply with FMVSS/CMVSS 201/205/302, as applicable.

WARNINGS – Prior To Drilling

- Improper drilling can cause property damage to vehicles and could lead to electric shock, fire, or even death.
- 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).
- Ensure that you will not hit any critical parts of the vehicle like the gas tank, wiring harnesses, or hoses. Consult the vehicle's OEM documentation as necessary. When drilling, use a drill collar to reduce the risk of damage to the vehicle.

WARNINGS – Prior To Operating Vehicle

- 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 guidelines shown here.
- Check your vehicle's tare weight and remaining load capacity with all 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.
- All items in the cargo area should be properly secured and partition doors closed while the vehicle is in motion.
- All system components should be regularly inspected, cleaned, and maintained pursuant to Ranger Design guidelines.



WARNING – In Event Of An Accident

- In the event of a motor vehicle accident or collision where a Ranger Design system has been installed, especially ones where the vehicle's structure has been damaged and/or the air bags have deployed 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.

 **FR:** Si vous avez besoin de ces instructions en français, s'il vous plait contacter notre service à la clientèle. +1-800-565-5321

 **ES:** Si necesita estas instrucciones en español, comuníquese con el Servicio de atención al cliente de Ranger Design. +1-800-565-5321

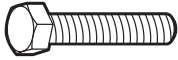
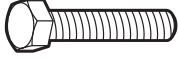

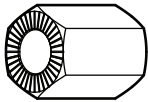
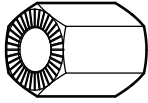


For technical support, contact us at 1-800-565-5321

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Parts Included

Installation Fastener Kit Content

Part	Description	6490	6491
	Hex Bolt 5/16"-18 x 2-1/2" GR-5 ZINC	-	1
	Hex Bolt 1/4"-20 x 2-1/2" GR-5 ZINC	1	-
	Flat Washer 5/16", OD. 7/8" ZINC	2	2
	Plustnut Tool 0.31" ID. x 1"- 5/8" STEEL	-	1
	Plustnut Tool 0.25" ID. x 1"- 5/8" STEEL	1	-

Tools Required (Not Included)

- Cordless Impact Driver
- Cordless Drill
- Marker
- 9/16" Wrench
- 1/2" Drill Bit w/ Drill Collar
(Set at 1/2")
- Or
- 3/8" Drill Bit w/ Drill Collar
(Set at 1/2")
- 1/2" Socket
- Or
- 7/16" Socket

Installation



CAUTION: When drilling into sheet metal be sure to:

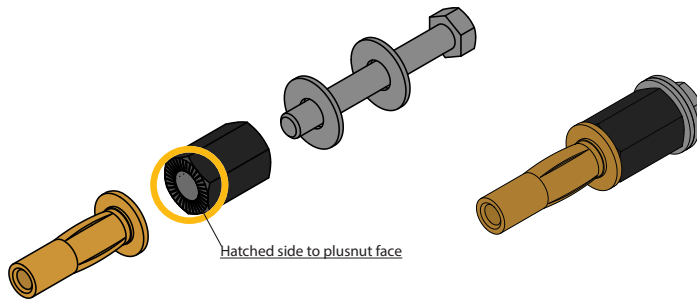
- Follow OEM-provided no-drill-zone guidelines.
- Rust protect all holes after drilling.

STEP 1 Mark and drill hole where required.

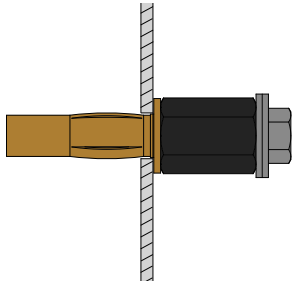
- 3/8" Drill bit for 1/4" Plusnut.
- 1/2" Drill bit for 5/16" Plusnut.

STEP 2 Install plusnut to sheet metal.

a. Insert washers and plusnut tool on bolt and thread completely into plusnut.

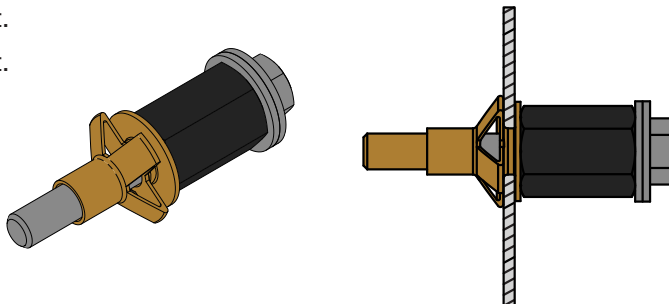


b. Insert into drilled hole.

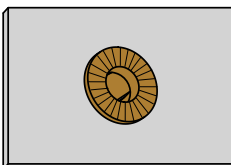


c. Torque past 6ft-lbs with impact while holding plusnut tool in place with wrench. Maintain torque until plusnut is collapsed flat with sheet metal surface.

- 7/16" Socket for 1/4" bolt.
- 1/2" Socket for 5/16" bolt.



d. Remove all hardware from plusnut.



TOOLS

- Marker
- Cordless Drill
- 3/8" or 1/2" Drill bit w/ Drill Collar (Set at 1/2")


HARDWARE

Bolt	Qty: 1
Washer	Qty: 2
Plusnut Tool	Qty: 1
Plusnut	Qty: 1



Hand-tight

TOOLS

- Impact Driver
- 9/16" Wrench
- 7/16" or 1/2" Socket 



Torque past
6 ft-lbs.



You have successfully installed your Plusnut.

Thank you for doing business with us.

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

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

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