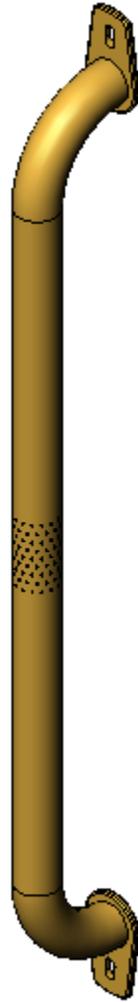


INSTALLATION GUIDE



6093-27 Large Grab Handle

Steel



QUICK START GUIDE

Phase 1 - Assembly

- 1.1 Setup..... 3 - 4
- 1.2 Tips How to Install Plusnut..... 5

Phase 2 - Installation

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- 2.2 Ranger Design Installation..... 7

REQUIRED ITEMS



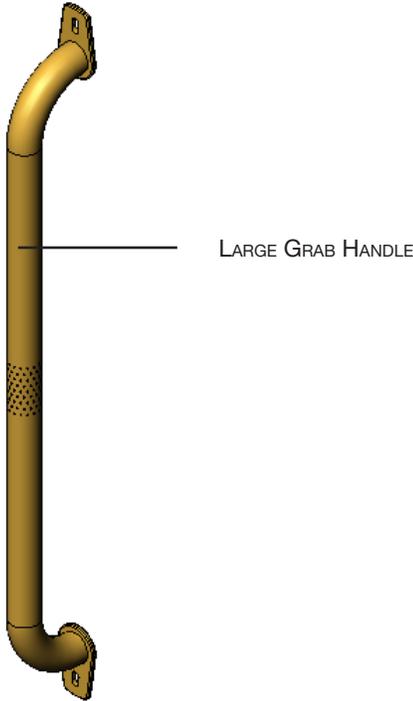
1
PERSONS

- Cordless Drill
- Torque Gun or Ratchet
- Plusnut Tools (5/16")
- 3/8" Drill Bit
- Marker
- 1/2" Socket

PHASE 1 – ASSEMBLY

1.1 SETUP

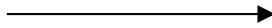
1.1.1 Unpack components; compare with the bill of materials.



1.1.2 Verify all parts are present.

Item No.	Description	Qty.
Large Grab Handle	Large Grab Handle	1

Fastener Kit



Fastener Assembly

OEM FASTENER

2x  **# 90-208** Hex Bolt
5/16"-18 x 1"
GR-5 ZINC

2x  **# 94-132** Plusnut
5/16"

2x  **# 98-122** Lock Washer
5/16"
ZINC

2x  **# 98-110** Flat Washer
5/16"
ZINC

2x

	#90-208 Hex Bolt 5/16" x 1"
	#98-122 Lock Washer
	#98-110 Flat Washer
	#94-132 Plus nut

RANGER DESIGN FASTENER

2x  **# 94-116** Serrated Nut
5/16"-18
ZINC

2x  **# 90-486** Carriage Bolt
5/16"-18 x 3/4"
ZINC

2x  **# 98-109** Flat Washer
3/8"

2x  **# 98-114** Flat Washer
3/8"
ZINC

2x

	#90-486 Carriage Bolt 5/16" x 3/4"
	#98-114 Flat Washer
	#98-109 Flat Washer
	#94-116 Serrated Nut

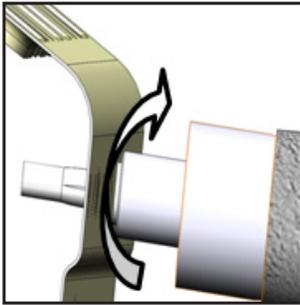
PHASE 1 – INSTALLATION

1.2 TIPS HOW TO INSTALL PLUSNUT

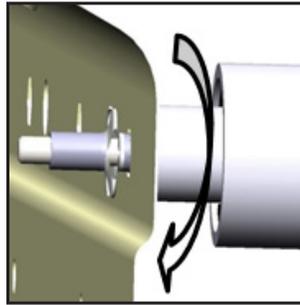
1.2.1 How to attach plus nut.

• 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 PLUSNUT TOOL

NOTE: The hardware used for the plusnut tool is not included in the fastener bag. The plusnut tool can be ordered separately upon demand at no charge.

PLUSNUT TOOL



HARDWARE USED

-  Flat washer 5/16"
-  Flat washer 5/16" BS × 7/8" OD

TOOLS

- Cordless Impact
- 1/2" Socket
- 9/16" Wrench

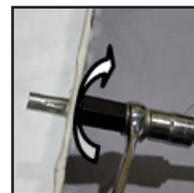
STEP 1:

Assemble the 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

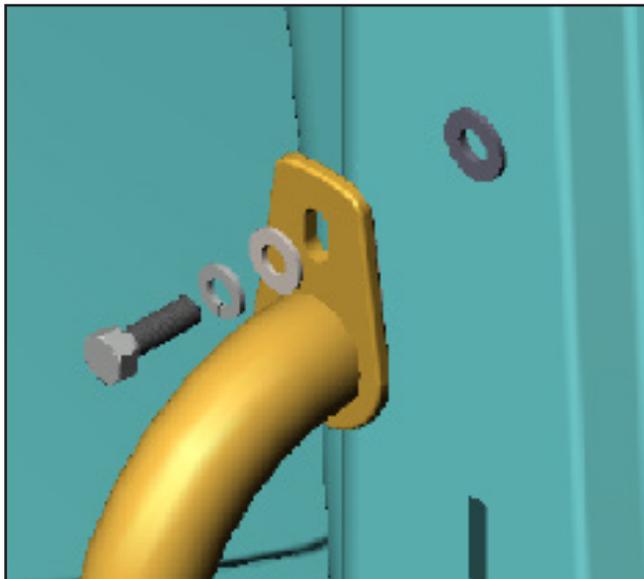
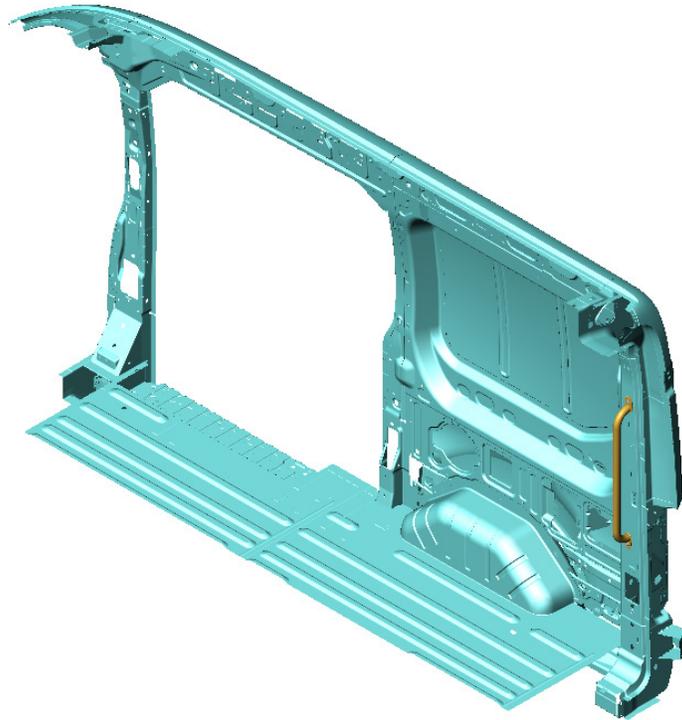


REVERSE

PHASE 2 – INSTALLATION

2.1 OEM INSTALLATION

- 2.1.1**
- Place the Grab Handle against a flat surface.
 - Mark the holes of the Grab Handle, then drill the mark using 1/2" drill bit.
 - Install the plusnut to the holes.
 - Install the Grab Handle to the plusnut using OEM fastener kit.



TOOLS

- Cordless Drill
- Marker
- 1/2" Drill Bit
- Torque Gun
- 1/2" Socket

HARDWARE USED

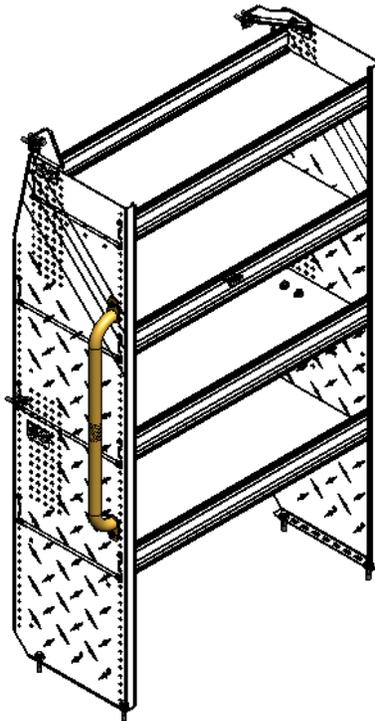
2x (17 ft • lbs)

- | | |
|---|-----------------------------|
|  | #90-208 Hex Bolt 5/16" x 1" |
|  | #98-122 Lock Washer |
|  | #98-110 Flat Washer |
|  | #94-132 Plus nut |

PHASE 2 – INSTALLATION

2.2 RANGER DESIGN INSTALLATION

- 2.2.2**
- Place the Grab Handle to Ranger Design unit or panel.
 - Mark the holes of the Grab Handle, then drill the mark using 3/8" drill bit.
 - Install the Grab Handle to the Ranger Design unit or panel using Ranger Design fastener kit.



3/4"

NOTE: If you are installing the Grab Handle to Ranger design unit, always place the Grab Handle 3/4" from the bend of the panel.

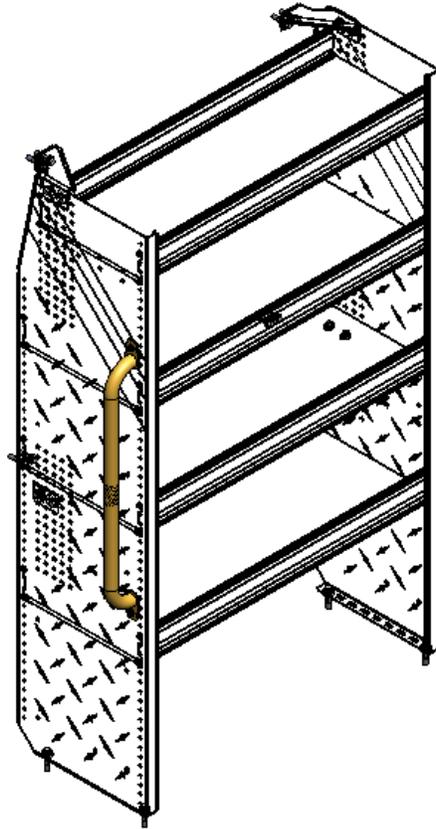
TOOLS

- Cordless Drill
- Marker
- 3/8" Drill Bit
- Torque Gun
- 1/2" Socket

HARDWARE USED

2x (17 ft • lbs)

	#90-486 Carriage Bolt	5/16" x 3/4"
	#98-114 Flat Washer	
	#98-109 Flat Washer	
	#94-116 Serrated Nut	



**“You have successfully installed your
Large Grab Handle**

Thank you for doing business with us.”

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

