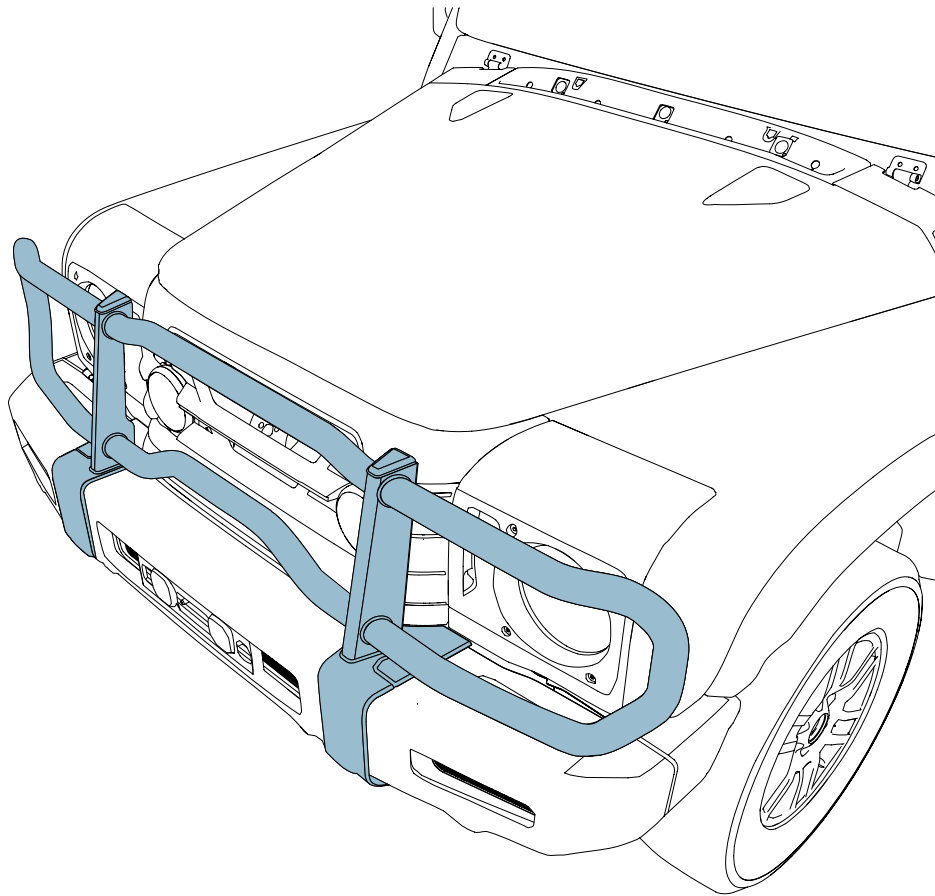


BULL BAR

Part Number: GRA-0A81-001160

Revised Date: 30th August 2023



INTRODUCTION

This introduction is written for Grenadier owners and enthusiasts. It is designed to provide sufficiently detailed instructions to support those who enjoy the challenge of installing accessories to their Grenadier.

PAGE LAYOUT

Each instruction page is written in the same format:

- > The title of the fitting procedure.
- > The header table, which give technical information about the fitting procedure.
- > The parts table, which lists parts required for the task.
- > The supplies table, which lists supplies (such as oils, lubricants, adhesives) required for the task.
- > The procedure steps. Numbered and ordered, giving instructions and illustrations for each step.

WARNINGS, CAUTIONS AND NOTES

The following Warnings, Cautions and Notes are used within the repair steps:



Warning : A warning tells you that there is a risk of injury or death.



Caution : A caution tells you that there is a risk of damage to objects.



Note : A note tells you additional information that relates to the main topic.

ABBREVIATIONS

The following abbreviations are used within the Easy Repair Guide:

- > Special Service Tool (SST)
- > Manufacturer Specification Data Sheet (MSDS)

TECHNICAL QUALIFICATION

INEOS recommends that only persons who are technically competent should work on the vehicle. Work carried out by unqualified persons or using unapproved tools may result in damage to the vehicle or personal injury.

DISCLAIMER

This instruction was correct at the time of publishing. However, INEOS reserves the right to develop, improve and change any equipment, software, specifications, design, and/or information provided without notice or obligation. INEOS will not be held responsible for any inaccuracy or the consequences thereof.

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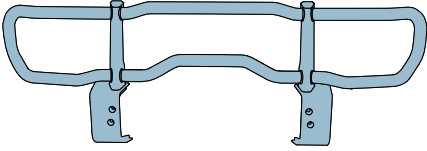
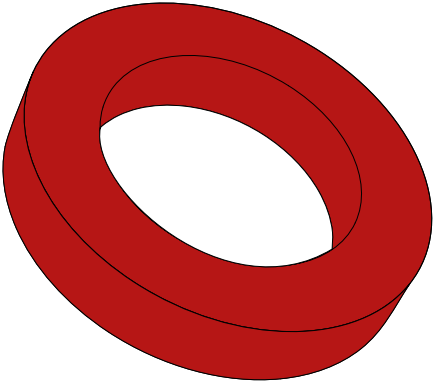
| | |
|---|----------|
| Bull Bar (Accessory Install) | 4 |
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BULL BAR (INSTALL)

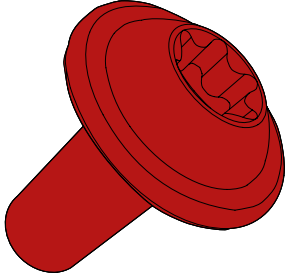
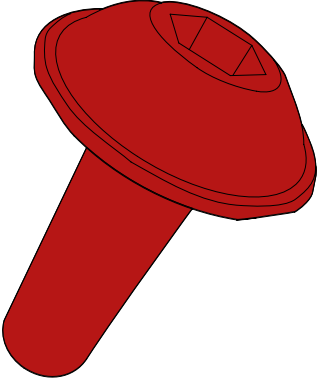
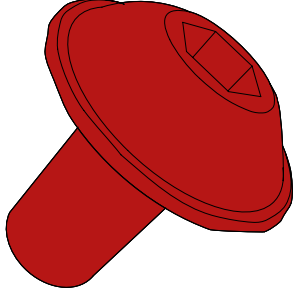
BULL BAR (ACCESSORY INSTALL)

| | |
|--------------------|-------------------------------|
| Part Number | GRA-0A81-001160 |
| Operation | Remove for Access and Install |
| Model Year | Common |
| Body | LWB / SW & UV |
| Repair Time | 0.3 hour |

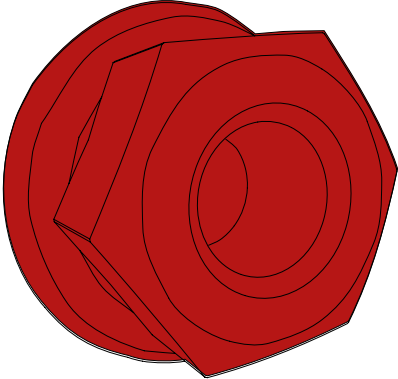
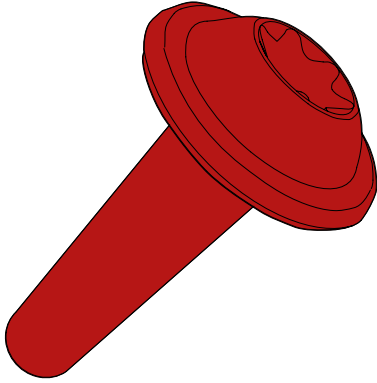
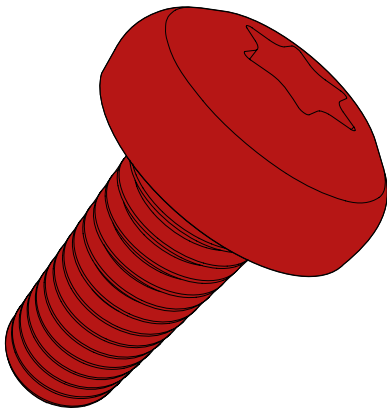
PARTS

| Part Number | Description | Image | Qty |
|-----------------|--------------------|--|-----|
| GRA-0A81-001160 | Roo Bar / Bull Bar |  | 1 |
| Part of Kit | Washer |  | 2 |

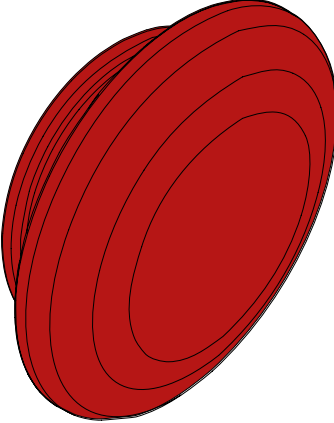
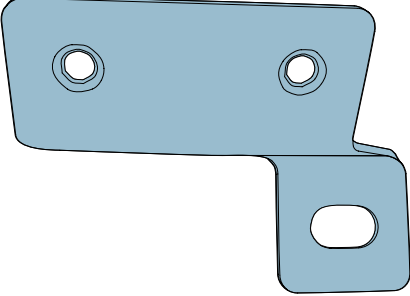
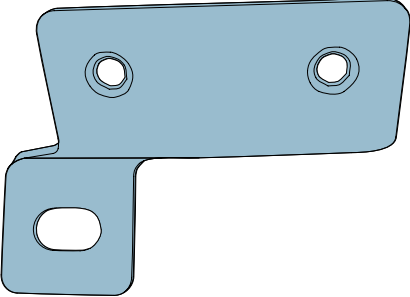
BULL BAR (INSTALL)

| Part Number | Description | Image | Qty |
|-------------|-------------|---|-----|
| Part of Kit | Bolt M10x20 |  A red bolt with a hexagonal head and a threaded shaft. | 2 |
| Part of Kit | Bolt M6x20 |  A red bolt with a hexagonal head and a threaded shaft. | 2 |
| Part of Kit | Bolt M6x12 |  A red bolt with a hexagonal head and a threaded shaft. | 2 |

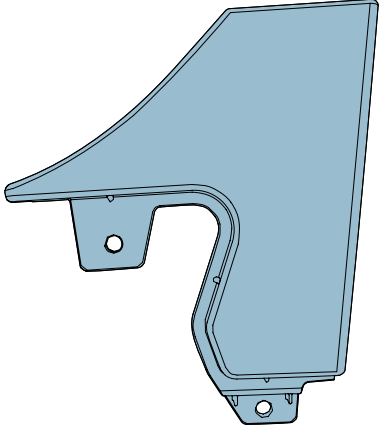
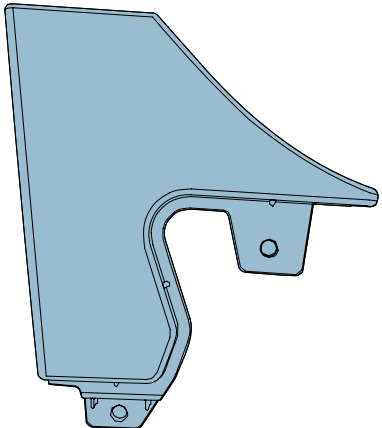
BULL BAR (INSTALL)

| Part Number | Description | Image | Qty |
|-------------|-------------|--|-----|
| Part of Kit | Nut M6 |  | 2 |
| Part of Kit | Bolt M10x45 |  | 4 |
| Part of Kit | Bolt M8x20 |  | 4 |

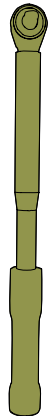
BULL BAR (INSTALL)

| Part Number | Description | Image | Qty |
|-------------|--------------------------|--|-----|
| Part of Kit | Large Grommet |  | 4 |
| Part of Kit | Bracket Right Side Lower |  | 1 |
| Part of Kit | Bracket Left Side Lower |  | 1 |

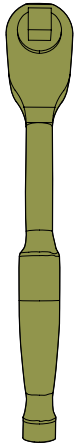
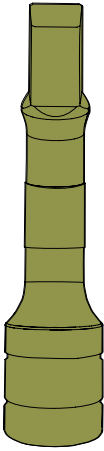
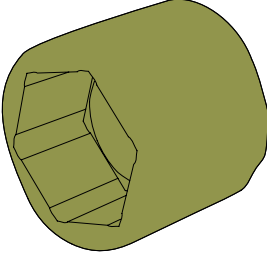
BULL BAR (INSTALL)

| Part Number | Description | Image | Qty |
|-------------|---------------------------------|---|-----|
| Part of Kit | Right Side Bull Bar Infil Panel |  A blue, L-shaped metal panel with a curved top edge and a small circular hole on the left side. | 1 |
| Part of Kit | Left Side Bull Bar Infil Panel |  A blue, L-shaped metal panel, the mirror image of the right side panel, with a small circular hole on the right side. | 1 |

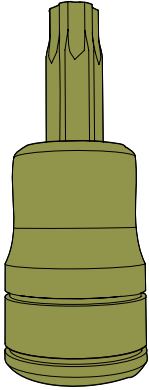
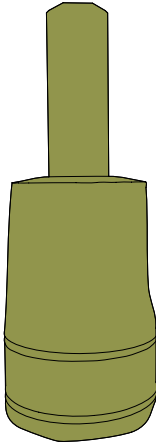
TOOLS

| Part Number | Description | Image | Qty |
|--------------|---------------|---|-----|
| Local Supply | Torque Wrench |  A green torque wrench with a circular head and a long handle. | 1 |

BULL BAR (INSTALL)

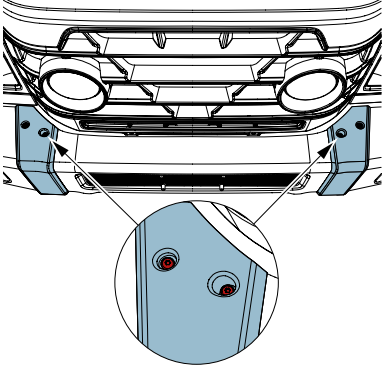
| Part Number | Description | Image | Qty |
|--------------|---------------------|--|-----|
| Local Supply | 3/8 Ratchet |  | 1 |
| Local Supply | 3/8 Extension Short |  | 1 |
| Local Supply | 3/8 M6 Socket |  | 1 |

BULL BAR (INSTALL)

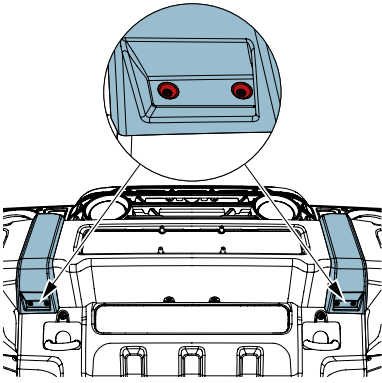
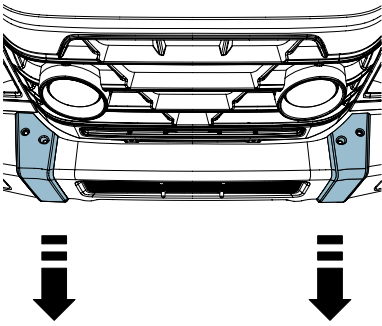
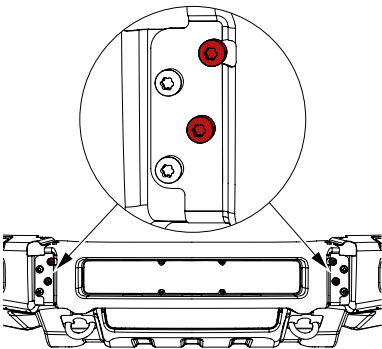
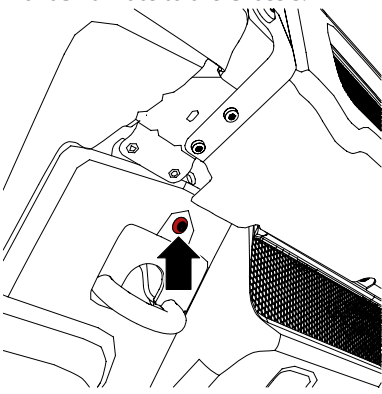
| Part Number | Description | Image | Qty |
|--------------|------------------|---|-----|
| Local Supply | 3/8 M10 Torx Key |  | 1 |
| Local Supply | 3/8 M6 Hex Key |  | 1 |

PROCEDURE

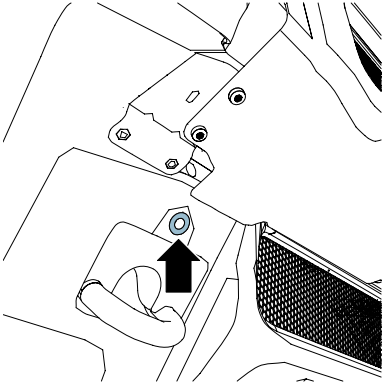
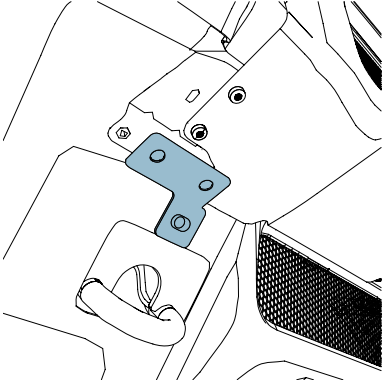
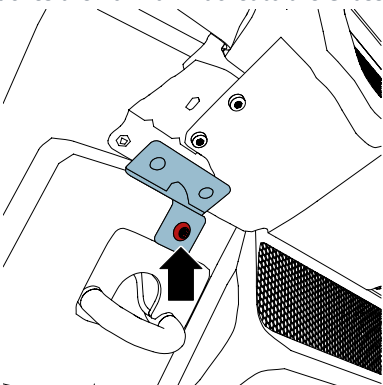
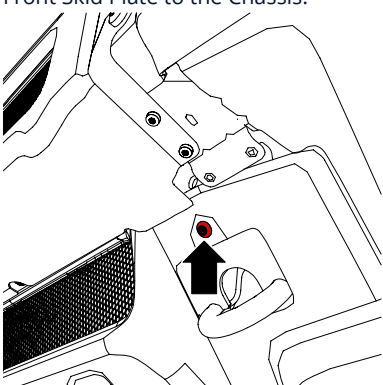
Installation Location: Vehicle Front

| | |
|---|---|
| 1 | <p>Remove the four upper bolts that attach the two Bull Bar Fascias to the Bumper.</p>  |
|---|---|

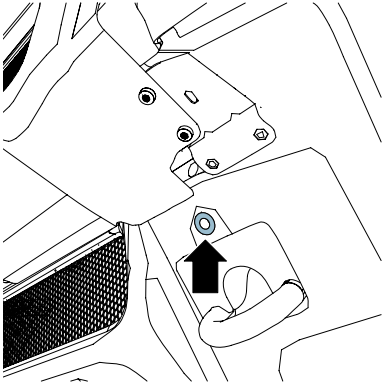
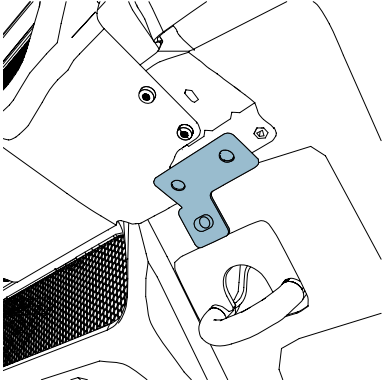
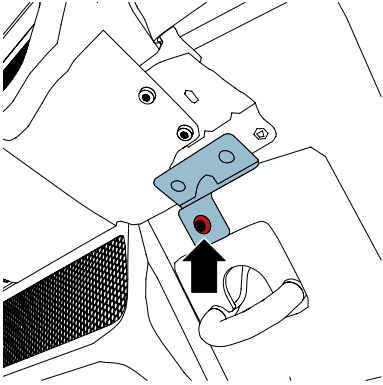

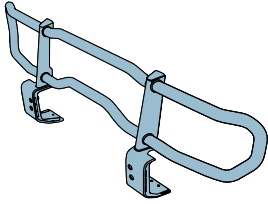
BULL BAR (INSTALL)

| | |
|---|---|
| 2 | <p>Remove the four lower bolts that attach the two Bull Bar Fascias to the Bumper.</p>  |
| 3 | <p>Remove the two Bull Bar Fascias.</p>  |
| 4 | <p>Remove the four bolts that attach the Bumper to the Crossbeam.</p>  |
| 5 | <p>Remove the bolt that attaches the Front Skid Plate to the Chassis.</p>  |

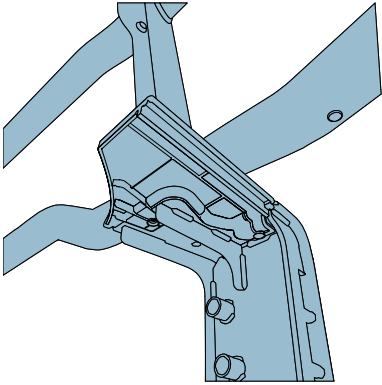
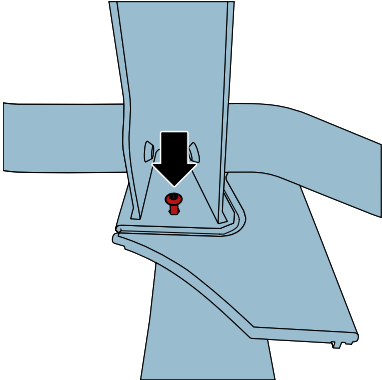
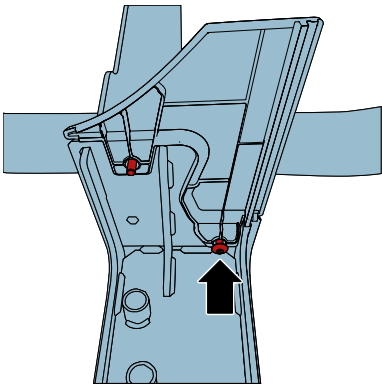
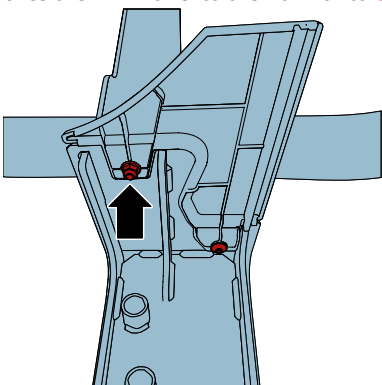
BULL BAR (INSTALL)

| | |
|---|---|
| 6 | <p>Move the Spacer into position.</p>  |
| 7 | <p>Move the Bull Bar Bracket into position.</p>  |
| 8 | <p>Install and torque the bolt that attaches the Bull Bar Bracket to the Chassis to 45 Nm</p>  |
| 9 | <p>Remove the Bolt that attaches the Front Skid Plate to the Chassis.</p>  |

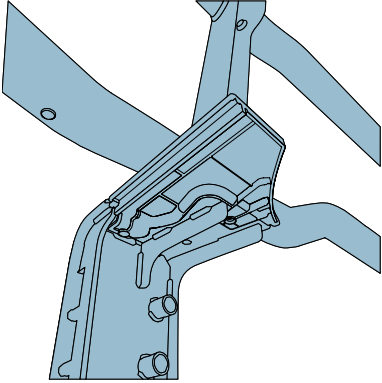
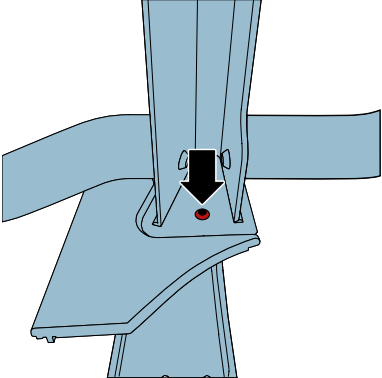
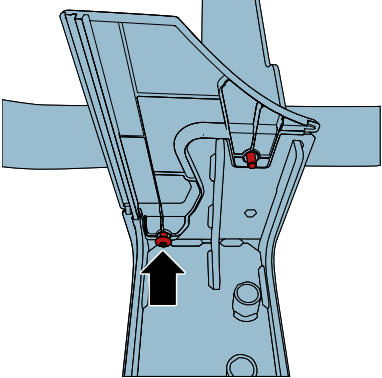
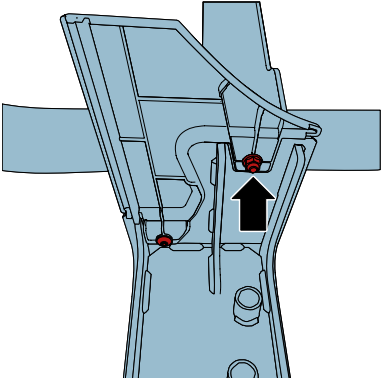
BULL BAR (INSTALL)

| | |
|----|---|
| 10 | <p>Move the Spacer into position.</p>  <p>A line drawing of the front left corner of a vehicle. A hand is shown holding a rectangular spacer and moving it upwards into a slot on the chassis. A black arrow points upwards from the spacer.</p> |
| 11 | <p>Move the Bull Bar Bracket into position.</p>  <p>A line drawing of the front left corner of a vehicle. A hand is shown holding a blue L-shaped bracket and moving it upwards into a slot on the chassis. The bracket is shaded in light blue.</p> |
| 12 | <p>Install and torque the bolt that attaches the Bull Bar Bracket to the Chassis to 45 Nm</p>  <p>A line drawing of the front left corner of a vehicle. A hand is shown holding a bolt and inserting it into a hole in the blue bracket. A red dot indicates the bolt's position. A black arrow points upwards from the bolt.</p> |
| 13 | <p> Warning: The Bull Bar is large and heavy. The aid of another person is necessary for the step that follows. If you do not, there is a risk of personal injury and damage to the Bull Bar.</p> <p>Move the Bull Bar into position.</p>  <p>A line drawing of the Bull Bar component, which is a blue metal frame with a horizontal bar and two vertical supports. The bar is shaded in light blue.</p> |

BULL BAR (INSTALL)

| | |
|----|---|
| 14 | <p>Move the Infill Panel into position.</p>  |
| 15 | <p>Move the bolt that attaches the Infill Panel to the Bull Bar into position.</p>  |
| 16 | <p>Install and torque the bolt that attaches the Infill Panel to the Bull Bar to 6 Nm</p>  |
| 17 | <p>Install and torque the nut that attaches the Infill Panel to the Bull Bar to 6 Nm</p>  |

BULL BAR (INSTALL)

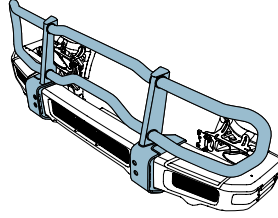
| | |
|----|---|
| 18 | <p>Move the Infill Panel into position.</p>  |
| 19 | <p>Move the bolt that attaches the Infill Panel to the Bull Bar into position.</p>  |
| 20 | <p>Install and torque the bolt that attaches the Infill Panel to the Bull Bar to 6 Nm</p>  |
| 21 | <p>Install and torque the nut that attaches the Infill Panel to the Bull Bar to 6 Nm</p>  |

BULL BAR (INSTALL)

22

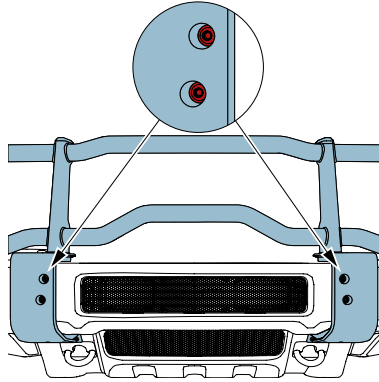
⚠ Warning: The Bull Bar is large and heavy. The aid of another person is necessary for the step that follows. If you do not, there is a risk of personal injury and damage to the vehicle.

Install the Bull Bar Assembly to the Front Bumper.



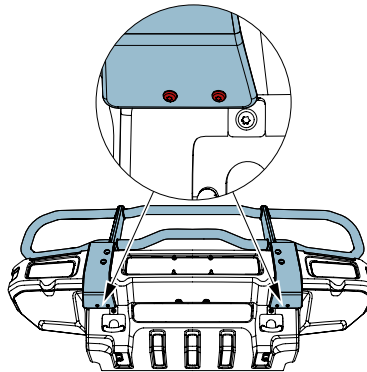
23

Install and torque the four bolts that attach the Bull Bar to the Front Bumper to **45 Nm**



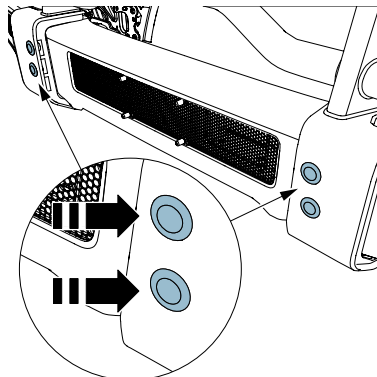
24

Install and torque the four bolts that attach the Bull Bar Brackets to **25 Nm**



25

Install the four Grommets to the Bull Bar.



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GRENA^ADIER