

ROCKARMOR

Fitting Instructions

Description:	TOYOTA PRADO 150 11/2017-8/2024 GT BULLBAR
Model:	Prado 150
SKU:	BBRA-150GT & BBRA-150GT



Fitting Instructions

These Fitting instructions are the same for the No Hoops version of the GT Bullbar as per photos below. BBRA-150GT



Important Notice:

Before commencing the installation, please ensure you have carefully read and understood all instructions. Rockarmor products are engineered to the highest standards, using premium materials and finishes. This includes sandblasting all raw materials, e-coating to eliminate impurities, and applying a Tiger coat for enhanced durability. Should the product become damaged or scratched during off-road or on-road use, the affected surface must be repaired promptly to maintain longevity. Installation should be carried out by a qualified technician, and it is essential to follow the steps precisely to ensure a secure and proper fit.

Note: Please Read Before Attempting Installation

- This product and its fixings must not be modified in any way unless specified in these fitting instructions.
- Do not remove any labels from the product.
- This product is intended solely for use on the specified vehicle model as outlined in these instructions.
- It is the installer's responsibility to ensure the product is correctly installed, allowing for adequate tolerance between the chassis and body, and ensuring clearances for all components.
- Use Loctite on all nuts and bolts during installation.
- The installation of this product may require specialized tools and should be conducted by an experienced fitter.

For more information about this product, please visit www.rockarmor.com.au.

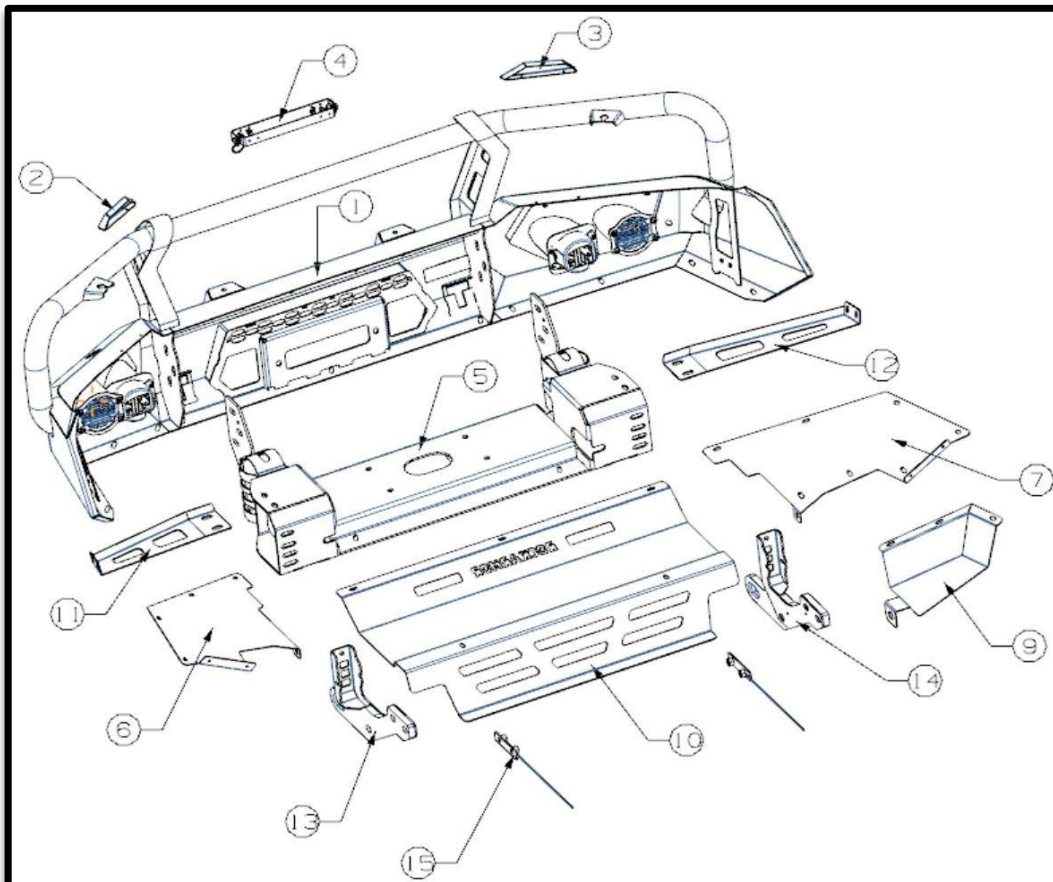
Liability Waiver:

By proceeding with the installation, you acknowledge that the installer is responsible for following these instructions accurately. Rockarmor Pty Ltd will not be held liable for any damages, injuries, or vehicle malfunctions arising from improper installation or failure to adhere to the provided guidelines. Any modifications or deviations from the instructed process will void any warranties and transfer all risks and liabilities to the installer and/or vehicle owner.

The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Supplies
Metric Socket Set 10-18MM.	Impact Drill & Bit Set	Loctite
Socket Extension Bar	Electric/Air Impact Driver (Optional)	Cable Ties
Metric Spanner Set 10-18MM.		Masking Tape
Torque Drivers T25-T30		Satin Black Automotive Paint
Trim Removal Tool		Grease and wax Remover.
Screwdriver Set (Flat and Phillips head)		Scotch Brite or Fine sandpaper.
Utility Knife		
Side Cutters		
Pliers		

Standard locking torque
M6 - 11Nm | M8 - 18Nm | M10 - 80 Nm | M12 - 90 Nm | M16 - 90 Nm



Occupational Health and Safety (OHS) Guidelines for the Workshop

Hearing Protection

All personnel must wear appropriate hearing protection in high-noise areas or when operating loud machinery to prevent hearing damage.



Eye Protection

Approved safety glasses or goggles must be worn at all times to shield the eyes from debris, chemicals, and other hazardous materials.



Safe Manual Handling Procedures

Use correct lifting techniques to avoid strains and injuries. Where possible, utilize mechanical aids and never exceed personal lifting capacity.



Hazard Awareness and Prevention

Remain vigilant of potential hazards within the workshop. Adhere to all posted warning signs and follow established safety protocols to mitigate risks.



Video Instructions Available

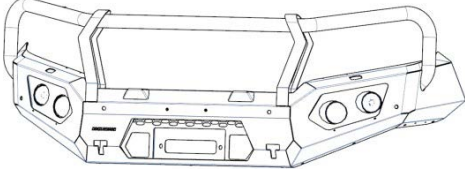
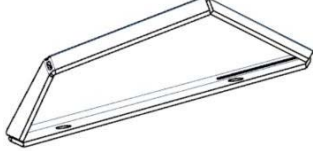
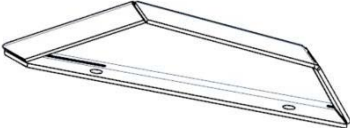

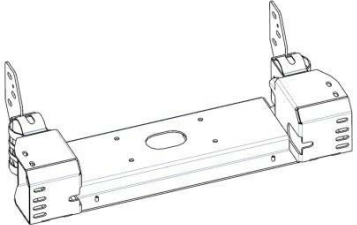
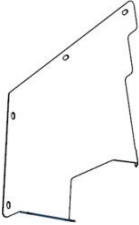
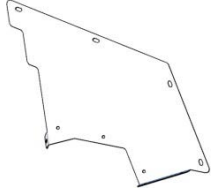
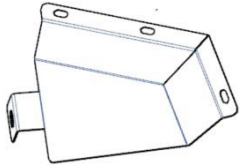
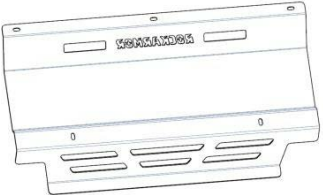
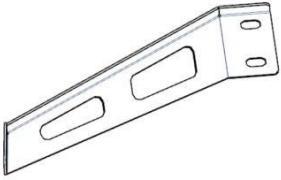
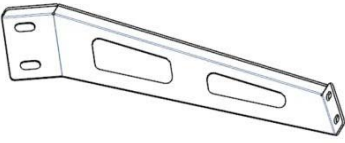
For a comprehensive guide on fitting the GT Bullbar, we highly recommend referring to our detailed video tutorial on YouTube:

<https://www.youtube.com/watch?v=zCLa01FVUg8>

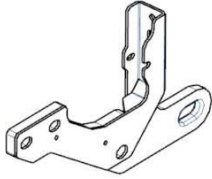
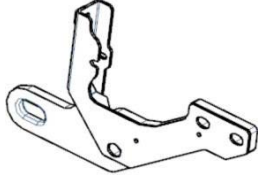

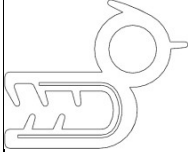
This video, created by a qualified fitter and auto electrician, provides clear, step-by-step visual instructions that are easier to follow than written instructions alone.

Wherever additional clarity is needed throughout these fitting instructions, please refer to the video for more details and demonstrations of specific steps.

Components List

Item	Description	Qty	Item	Description	Qty
1	 Bull bar assemble	1	2	 Grill Cover (LH)	1
3	 Grill Cover(RH)	1	4	 License Plate Holder	1
5	 Winch Frame	1	6	 Bash plate 1(LH)	1
7	 Bash plate 2(RH)	1	8		
9	 Bash plate 3(RH)	1	10	 Centre bash plate	1
11	 Bull bar Holder(LH)	1	12	 Bull bar Holder(RH)	1

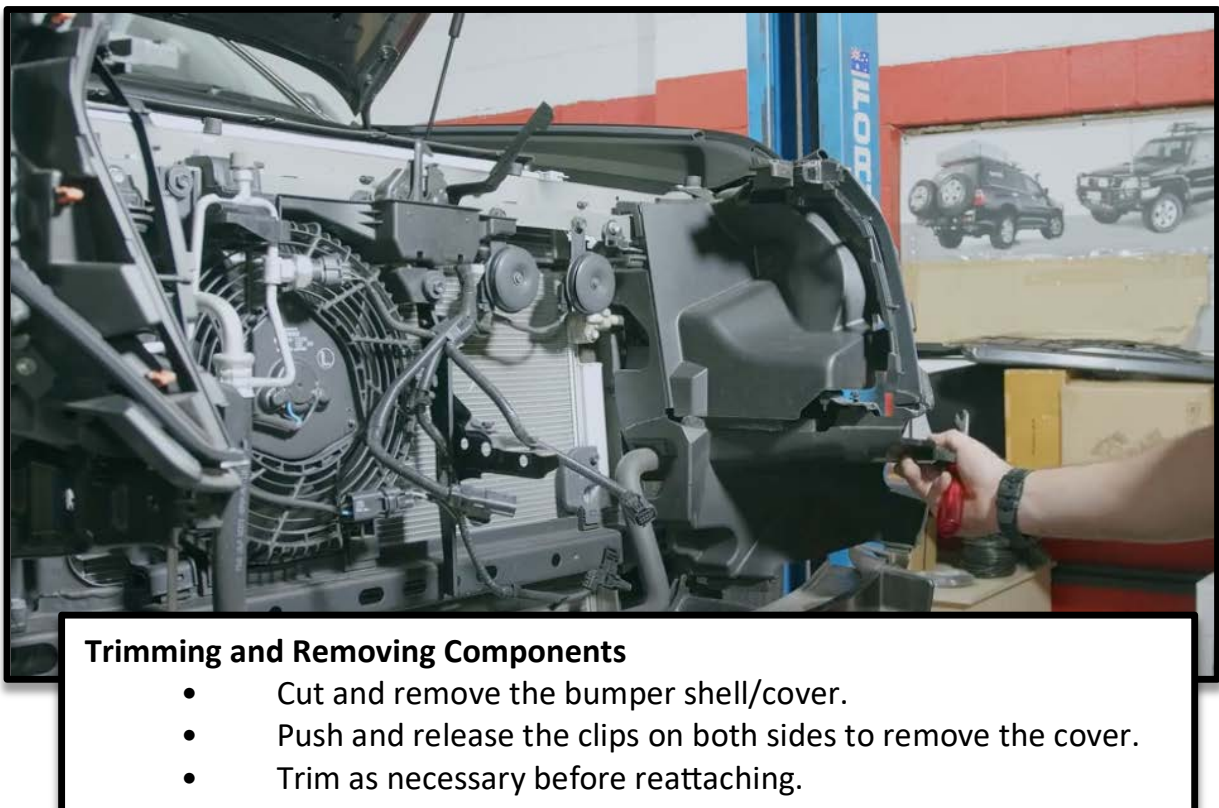
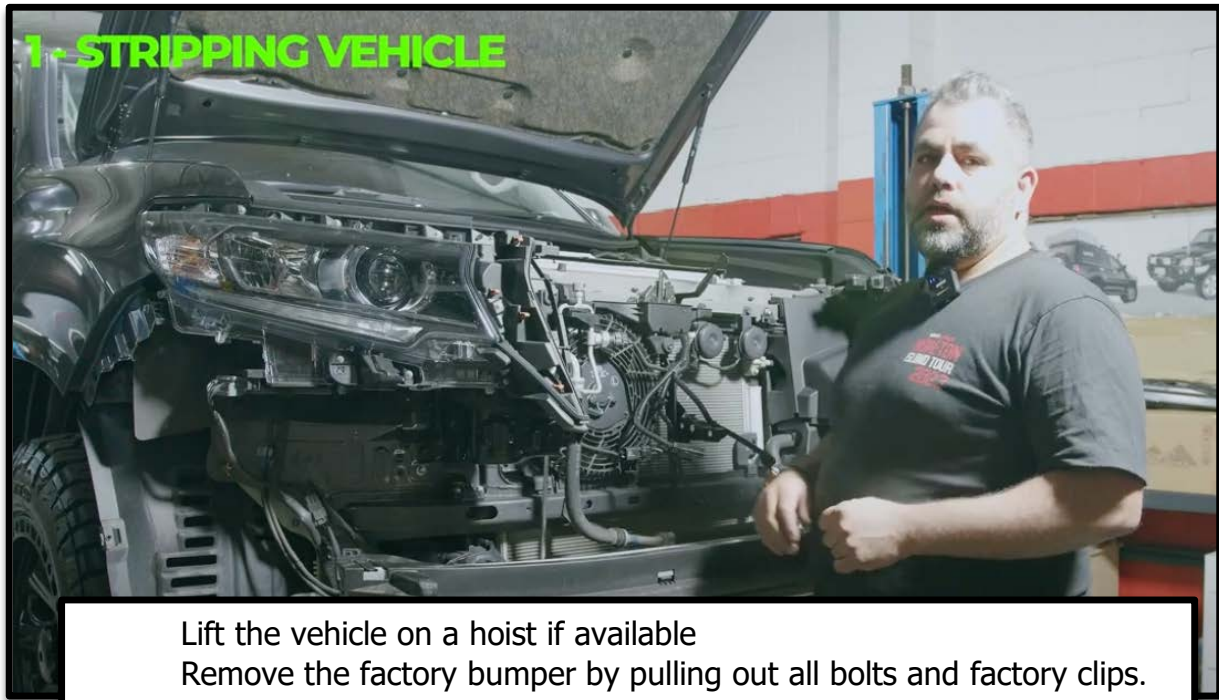
Fitting Instructions

13		1	14		1
	Outside Bracket(LH)			Outside Bracket(RH)	
15		2	N/A		1
	Outside Bracket Holder			Pinch mold (2400mm)	

Item	Description	Qty
16	Flange Nut M6	10
17	Hexagonal head bolt M10x30	4
18	Hexagonal head bolt M10x40	2
19	Hexagonal head bolt M12x40	6
20	Hexagonal head bolt M6x16	4
21	Hexagonal head bolt M6x20	26
22	Hexagonal head bolt M8x25	2
23	Hexagonal head bolt M10x1.25x30	4
24	Hexagonal head bolt M10x1.25x35	8
25	Hexagonal head bolt M12x1.25x45	6
26	Hexagonal head Nut M10x1.5	4
27	Hexagonal head Nut M12x1.75	6
28	Flange Nut M10x1.25	4
29	Lock Nut M10x1.5	2
30	D10x30_2 Washer	6
31	D12x37_3 Washer	18
32	D6x18_2 Washer	30
33	D8x24_2 Washer	2
34	Spring Washer D10	12
35	Spring Washer D12	12
36	Spring Washer D6	30
37	Spring Washer D8	2
38	D10x24_2 Washer	18

Installation Steps:

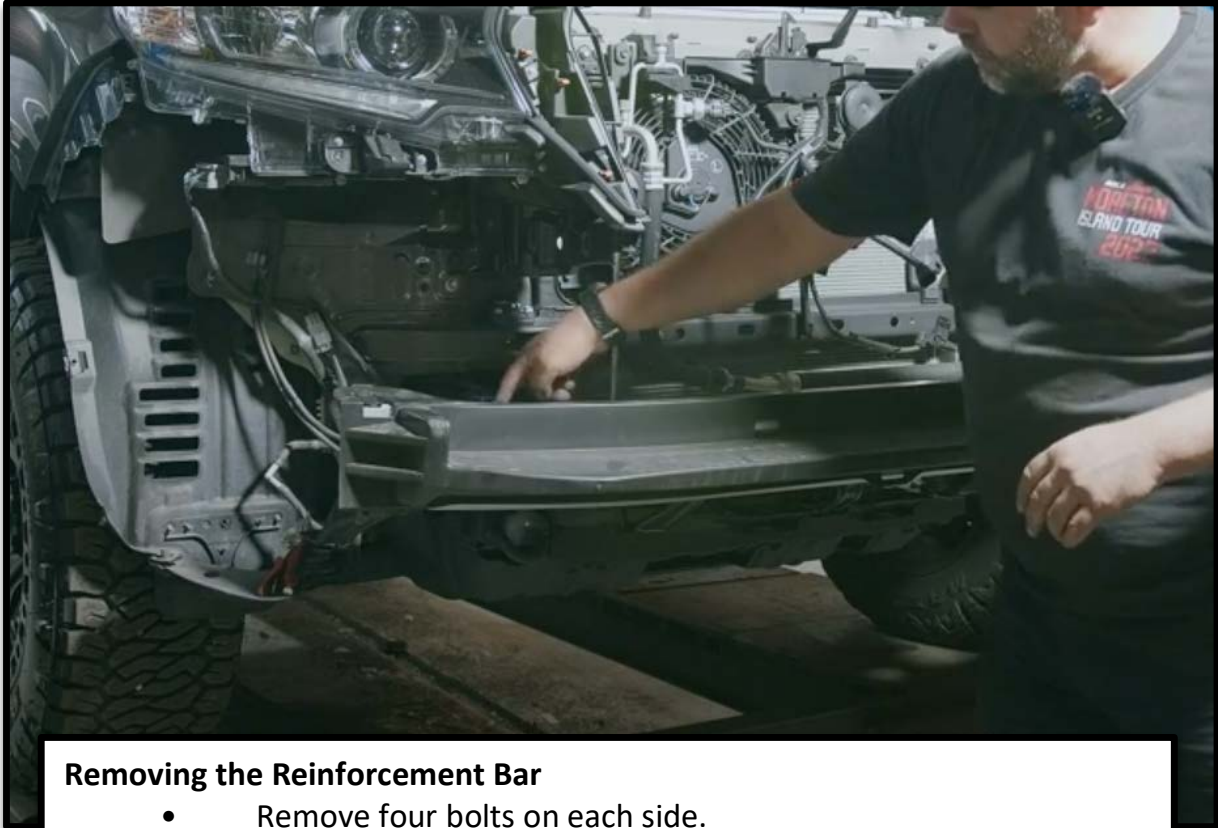
Remove front Factory Grill & Bumper, this step prepares the chassis for the bullbar mounting. Please take care when unclipping any wiring harnesses



**Removing Side Brackets**

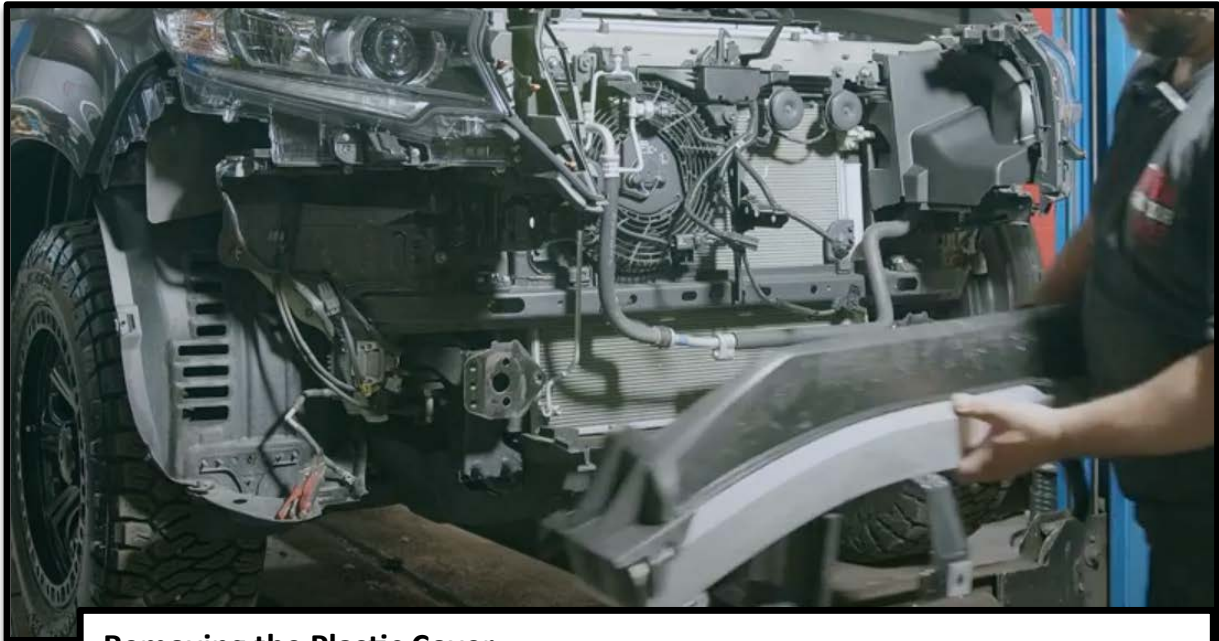
- Unscrew the two 10mm screws (one soft, one coarse) holding the side brackets.
- Yank out the brackets and discard them.



**Removing the Reinforcement Bar**

- Remove four bolts on each side.
- Unscrew two M6 bolts from underneath.
- Pull out and discard the reinforcement bar.



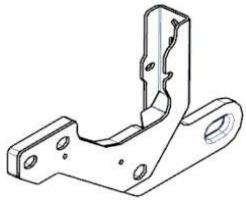
**Removing the Plastic Cover**

- Unscrew two bolts and remove the small plastic cover.
- Detach a tiny clip and discard the cover.

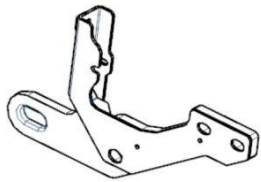


Brackets Needed for this section

Chassis Mount : Items 13,14,15



← **Item 13:** Outside Bracket (LHS)



← **Item 14:** Outside Bracket (RHS)



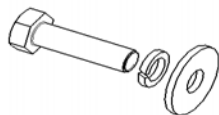
← **Item 15:** Outside Bracket Holder

Bolt Kits Needed for this section**Bolt Kit (6)**

Item 25: Hexagonal head bolt M12x1.25x45

Item 31: D12x37_3 Washer

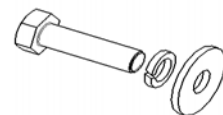
Item 35: Spring Washer D12

**Bolt Kit (2)**

Item 22: Hexagonal head bolt M8x25

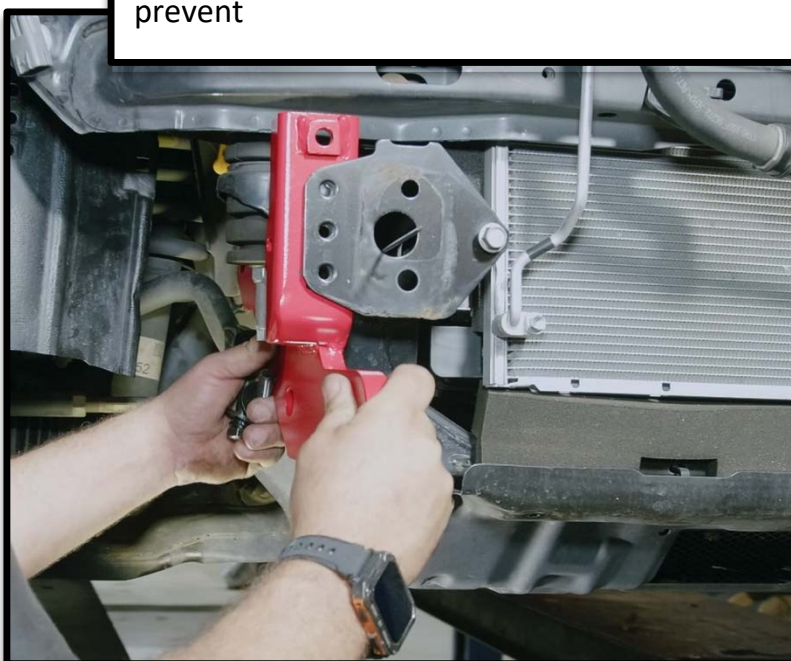
Item 33: D8x24_2 Washer

Item 37: Spring Washer D8



**Installing the Recovery Points**

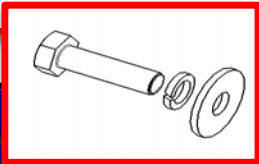
- Insert the nut plate into the chassis.
- Align the recovery point bolt with the nut inside the chassis.
- Ensure both chassis holes align with the nut plate.
- Tighten the bolts and repeat for the other side.
- Trim and leave the extension inside, cutting 5mm extra to prevent





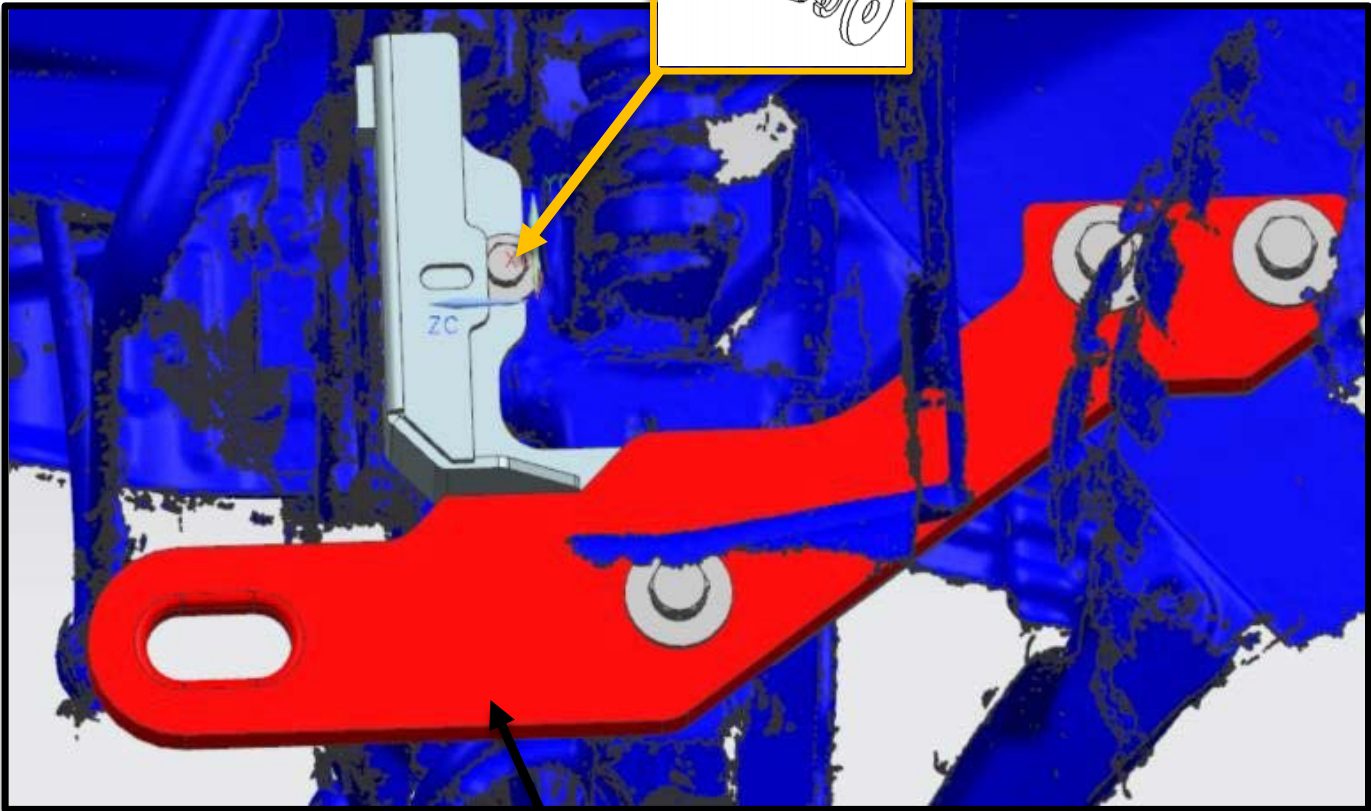
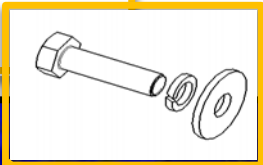
Bolt Kit (6)

- Item 25: Hexagonal head bolt M12x1.25x45
- Item 31: D12x37_3 Washer
- Item 35: Spring Washer D12



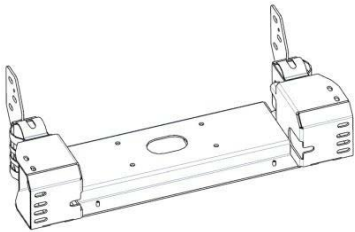
Bolt Kit (2)

- Item 22: Hexagonal head bolt M8x25
- Item 33: D8x24_2 Washer
- Item 37: Spring Washer D8



Item 13 Outside Bracket (LHS)

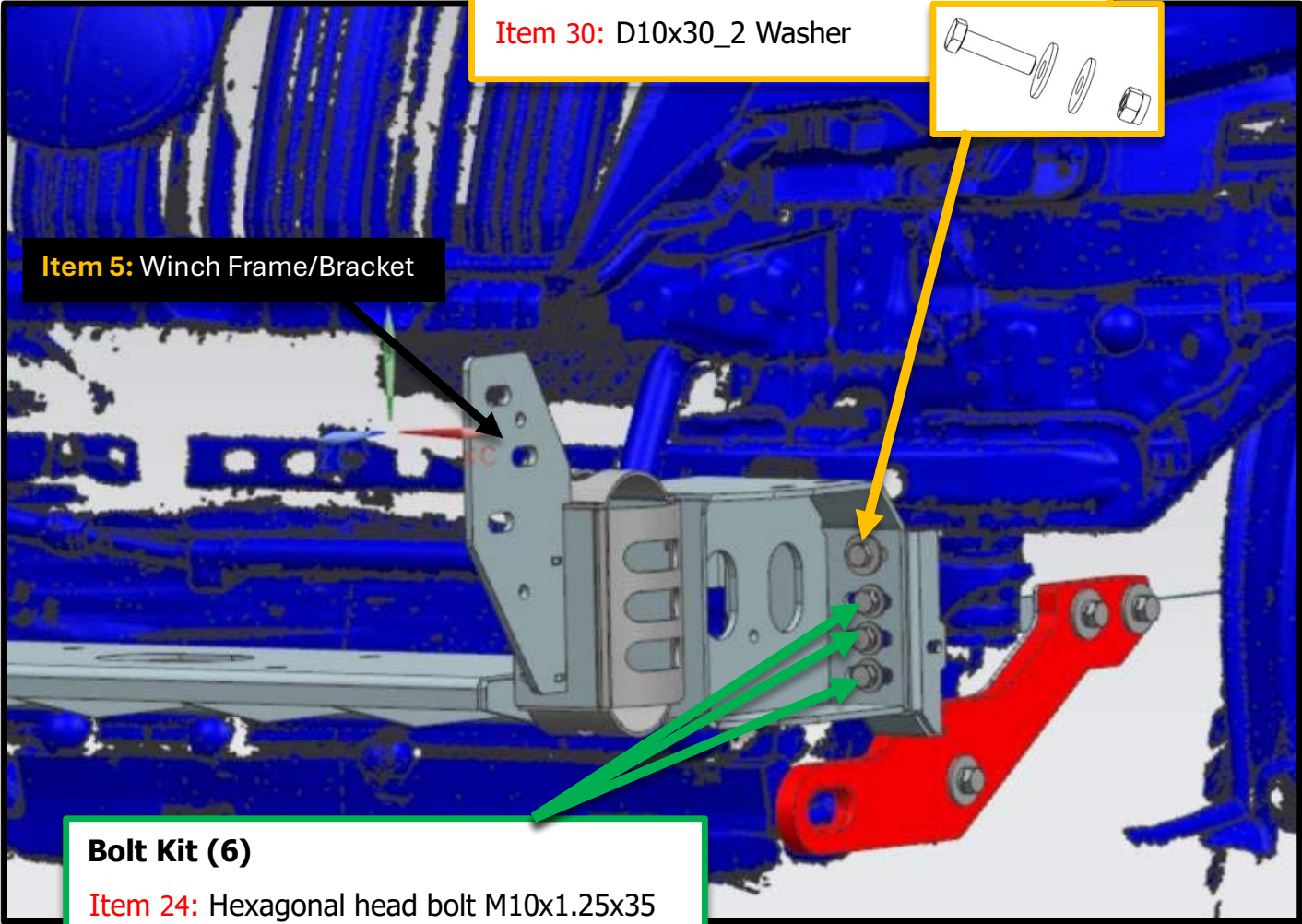
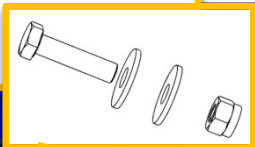
Brackets Needed for this section



← **Item 5:** Winch Frame/Bracket

Bolt Kit (2)

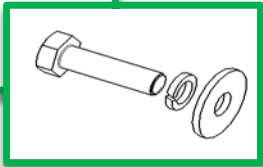
- Item 18:** Hexagonal head bolt M10x40
- Item 29:** Lock Nut M10x1.5
- Item 30:** D10x30_2 Washer

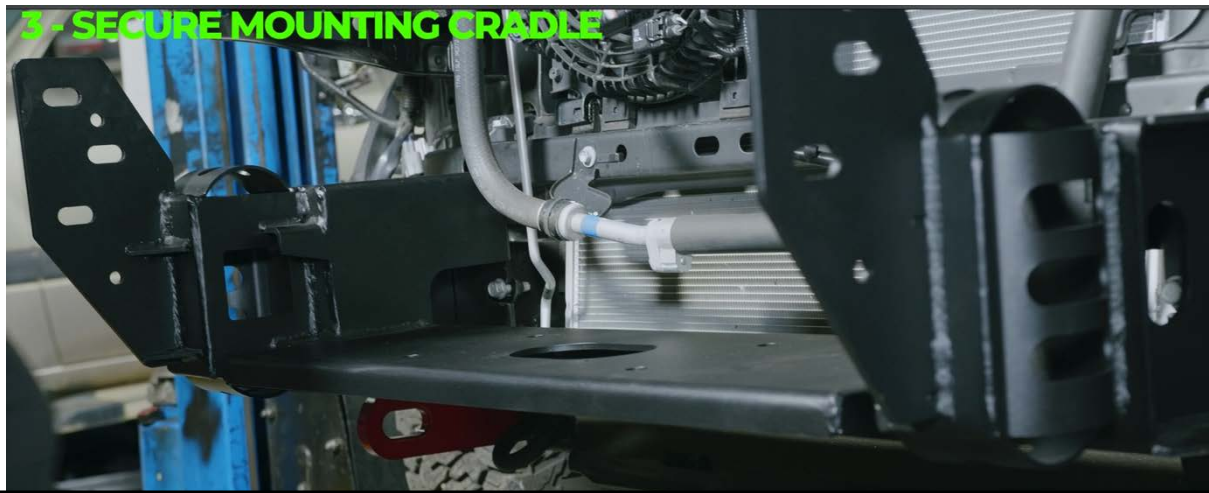


Item 5: Winch Frame/Bracket

Bolt Kit (6)

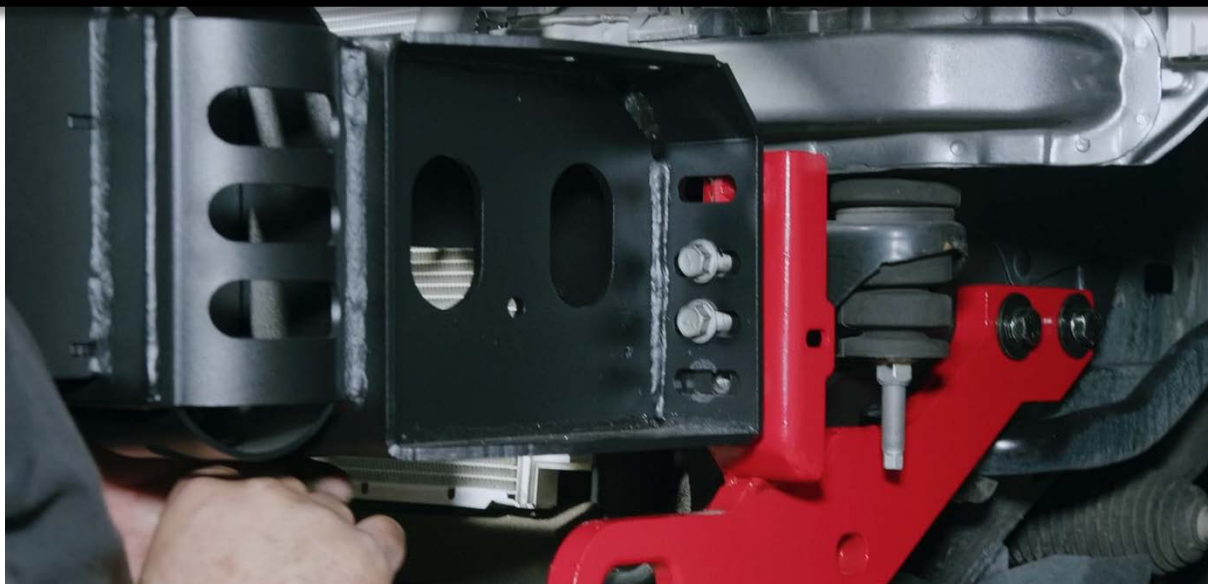
- Item 24:** Hexagonal head bolt M10x1.25x35
- Item 34:** Spring Washer D10
- Item 38:** D10x24_2 Washer





Installing the Cradle

- Insert two factory bolts into the chassis to hook the cradle in place.
- Adjust and hand-tighten all factory bolts.
- Install the locator bolt for the recovery point.
- Center the cradle by measuring from the edges to ensure proper alignment.
- Tighten all bolts securely.

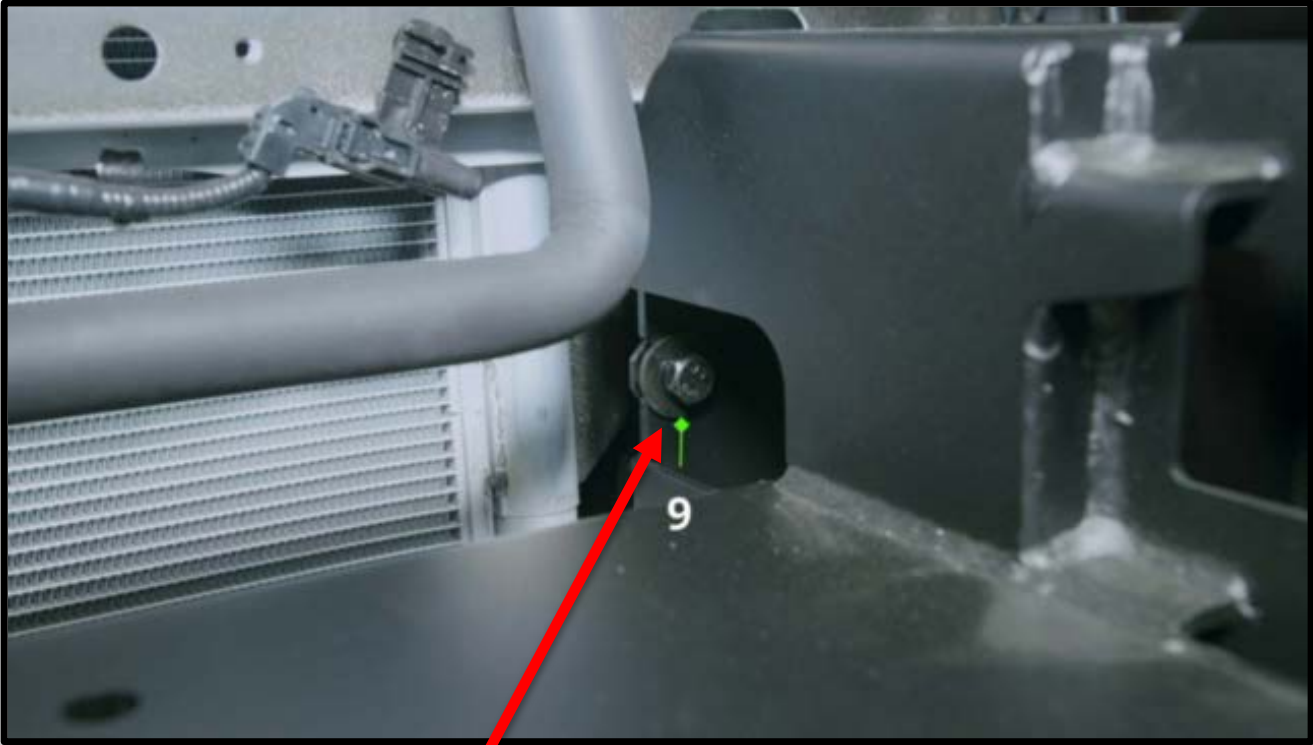




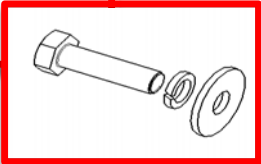
**Securing the Cradle and Recovery Points**

- Insert the joiner bolt and nut into the top hole.
- Repeat on the other side.





- Bolt Kit (2)**
- Item 24: Hexagonal head bolt M10x1.25x35
 - Item 30: D10x30_2 Washer
 - Item 34: Spring Washer D10

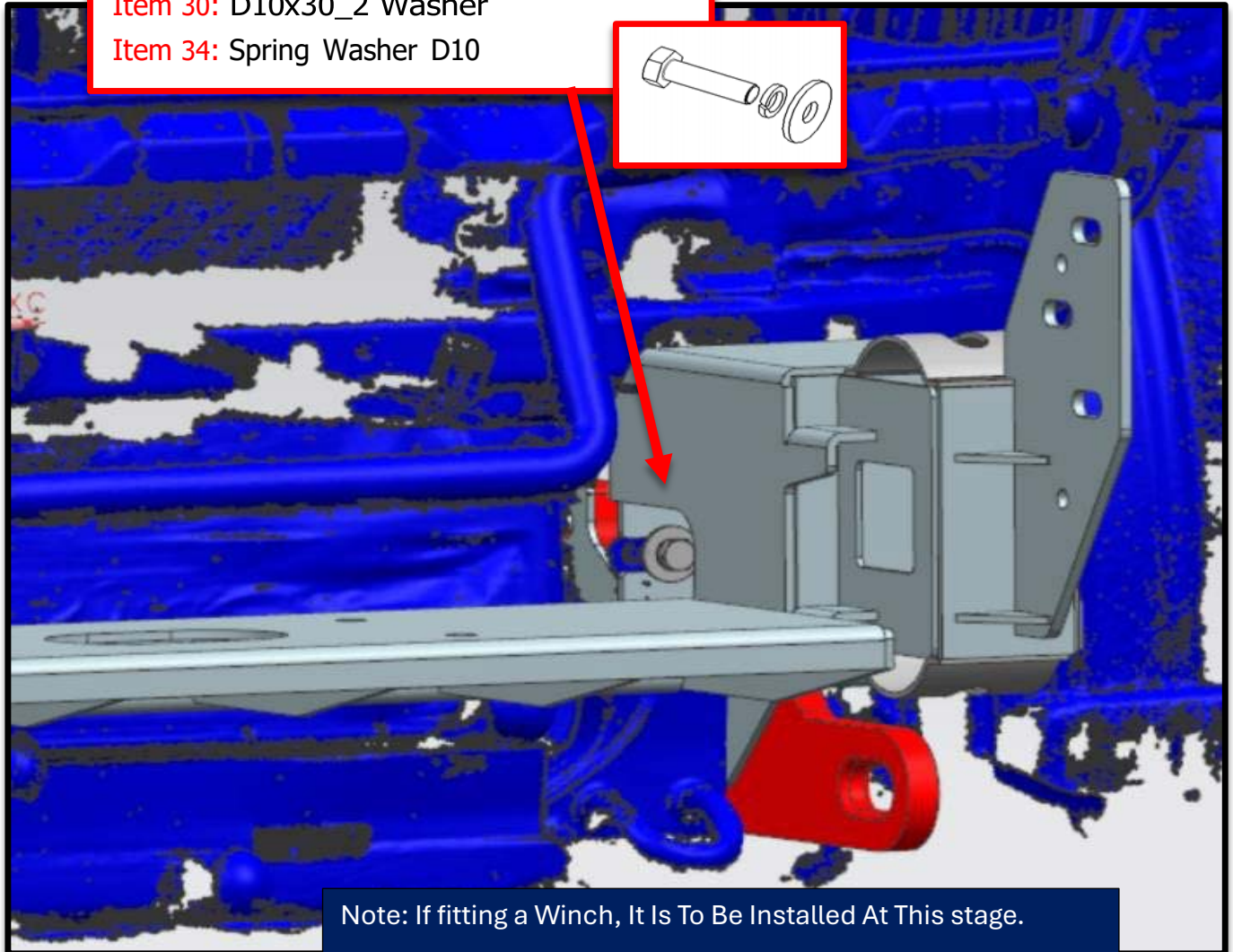


Bolt Kit (2)

Item 24: Hexagonal head bolt M10x1.25x35

Item 30: D10x30_2 Washer

Item 34: Spring Washer D10



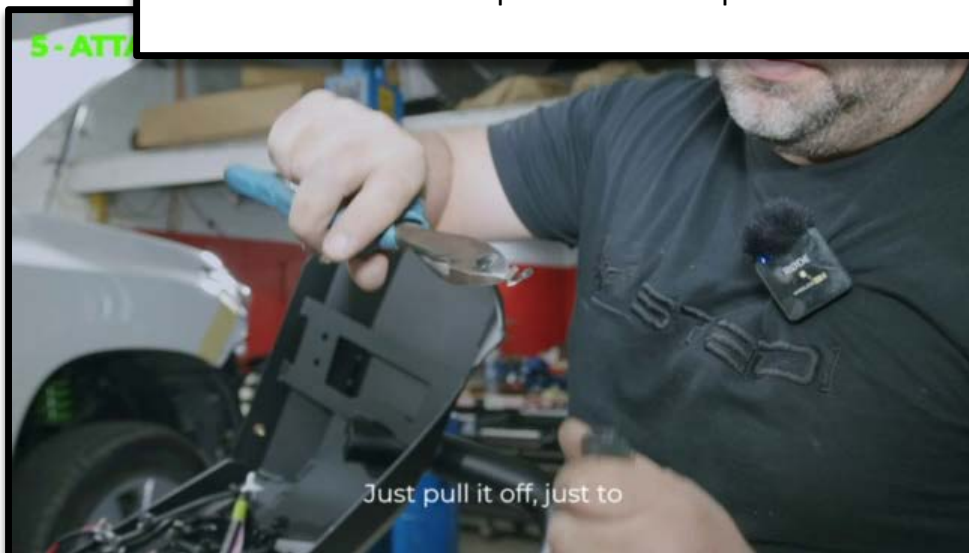
Note: If fitting a Winch, It Is To Be Installed At This stage.

Please note:

When installing an electronic winch on Rockarmor bullbars, the winch and control box may vary depending on the model, size, and brand. Our provided guide is a general reference designed to accommodate the most common winch types. Installation methods may differ, and multiple configurations are possible, with or without the control box bracket. Please note that for some brands, the control box may be mounted separately depending on its size.

**Installing Pinch Weld**

- Cut pinch weld to the correct length.
- Remove exposed metal to prevent rust and corrosion.
- Insert the pinch weld into place.



If you have **headlight washers**, this would be the ideal time to insert them into your bull bar.

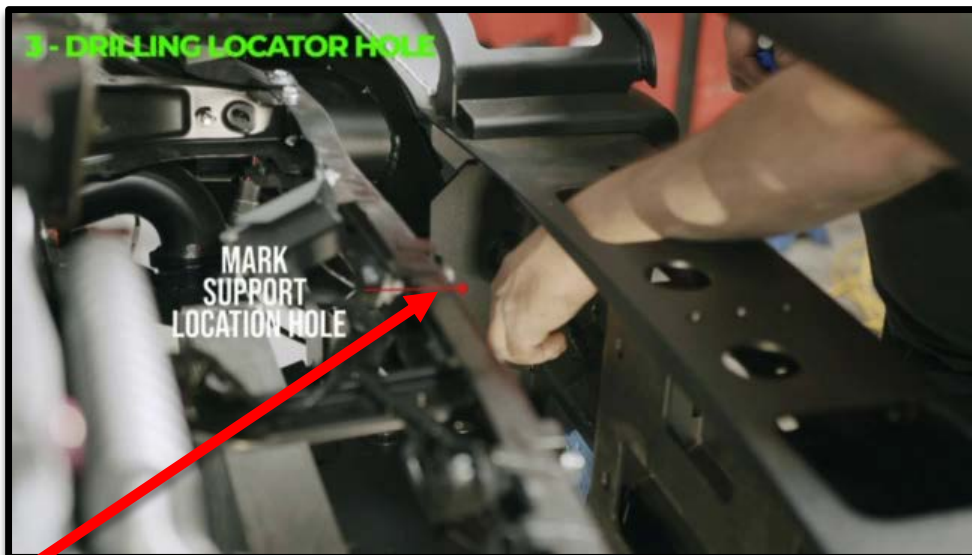
Fitting the Bullbar

- Align the three large holes on the cradle and bullbar.
- Insert 12 supplied U-bolts:
- **Bolt > Big Washer > Through Hole > Washer > Spring Washer > Nut**
- Drill an 8mm locator hole into the bar for added security.
- Blow out metal shavings to prevent rust.
- Insert M8 bolt, spring washer, washer, and nut to secure.

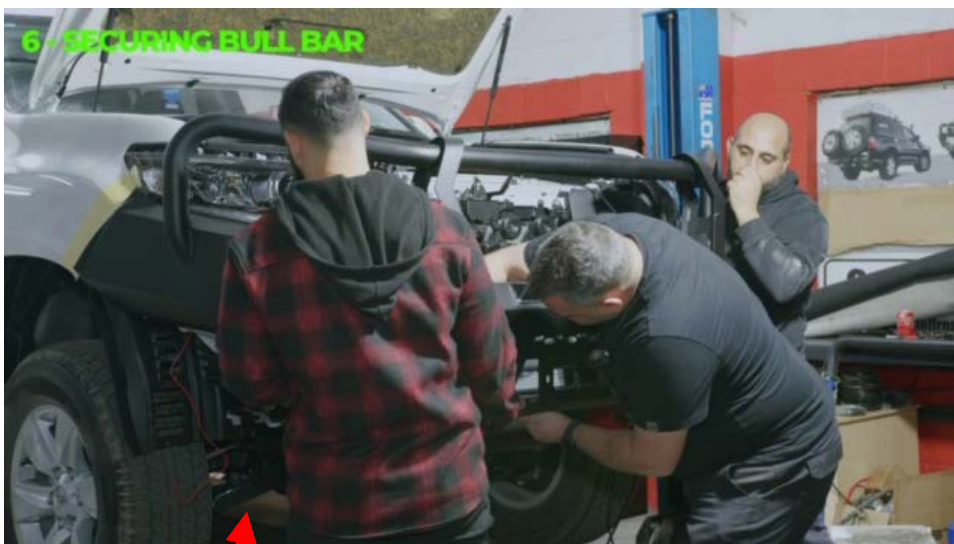
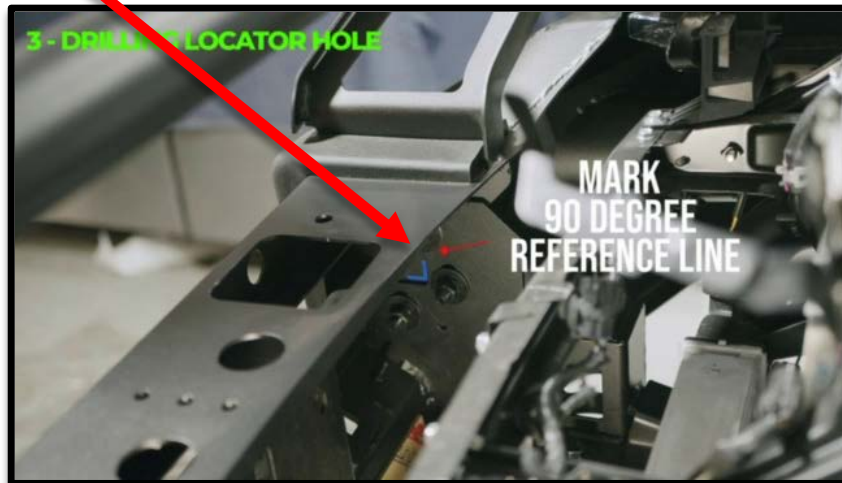
VERY IMPORTANT: Securing the Bullbar locator hole

Please note the following section is a generic part of the installation that is needed in the installation of all GT bullbar's and thus photos of the bar may differ in the installation process.

1. A locator hole is essential for all GT Bullbar models.
2. It ensures correct positioning, alignment, and leveling of brackets, the bullbar, and accessories before final installation.
3. Temporarily mount the bullbar to mark the exact positioning.
4. After confirming placement, mark the bullbar again using:
 - i. The locator holes
 - ii. An additional square section to establish a 90-degree reference line
5. Use a white permanent marker for visibility.
6. Remove the bullbar and drill through the locator hole from the winch bracket into the bullbar.
7. Secure it by inserting bolts and nuts as per installation instructions.



Mark a reference line(s) and hole that needs to be drilled, you can use this reference line(s) to align the bulbar once you all mounted and the relocater hols has been tighten appropriately.



Remove bulbar from the frame in preparation of drilling the locator hole as marked in the previous section

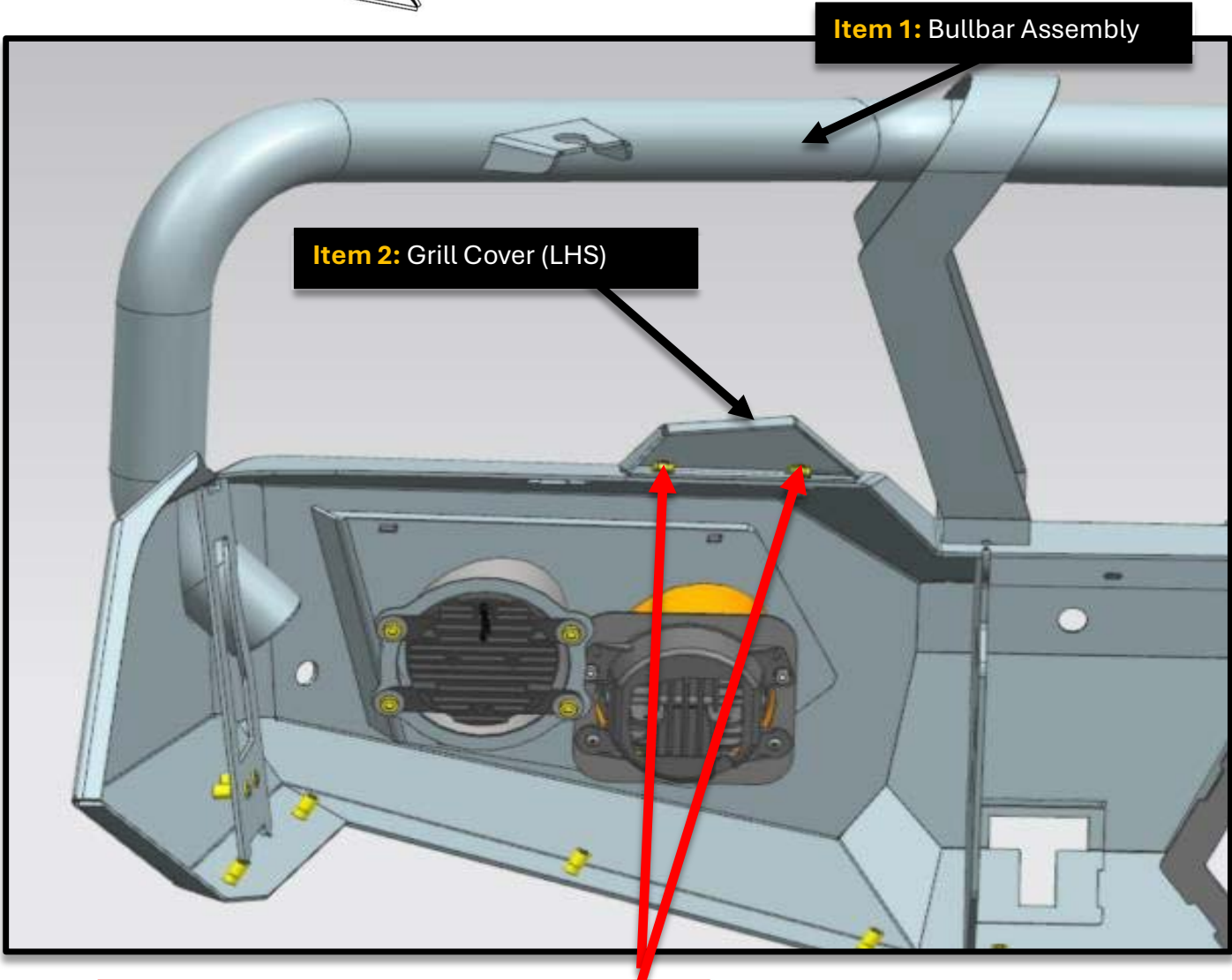
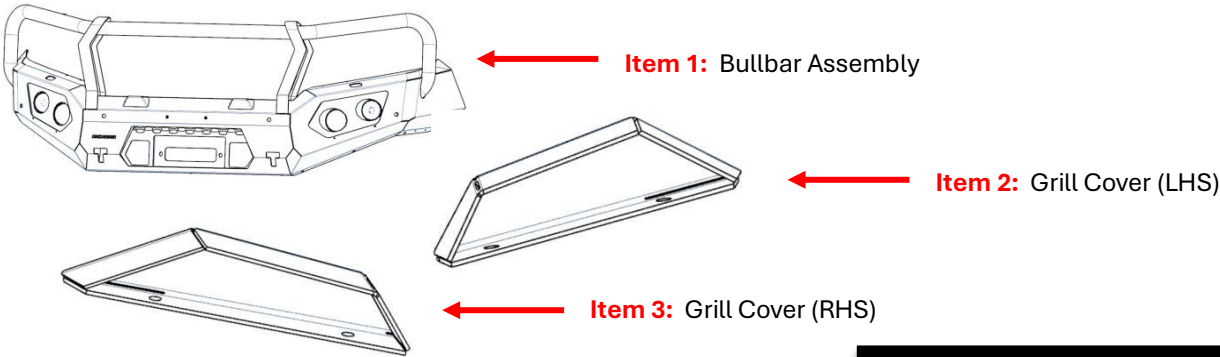
Drill the locator hole as marked



The following step is required only once the bulbar has been mounted and secured



Brackets Needed for this section, 1,2,3



Bolt Kit (4)

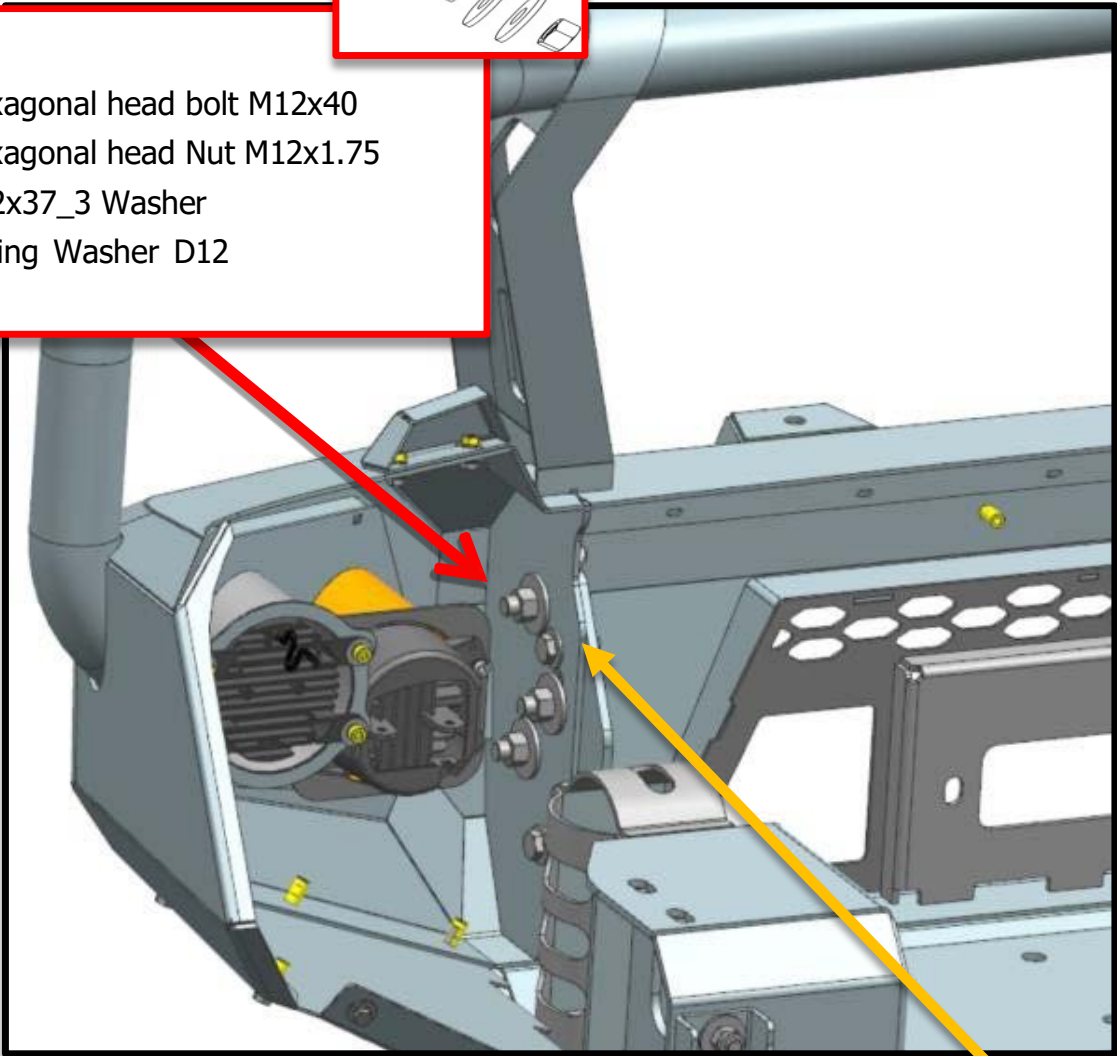
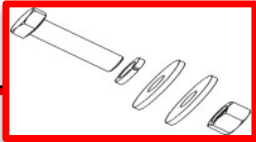
- Item 16: Flange Nut M6
- Item 20: Hexagonal head bolt M6x16
- Item 32: D6x18_2 Washer
- Item 36: Spring Washer D6



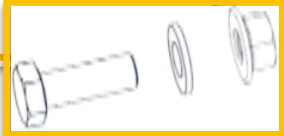
Install Sensors / Washer Jets / Pinch Weld / Wiring at this stage.

Use below bolt kits: Mount the Bull Bar to the cradle, Allow enough gap for flex before tightening (15mm is recommended).

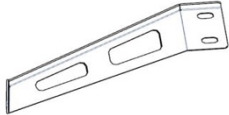
- Bolt Kit (6)**
- Item 19: Hexagonal head bolt M12x40
 - Item 27: Hexagonal head Nut M12x1.75
 - Item 31: D12x37_3 Washer
 - Item 35: Spring Washer D12



- Bolt Kit (4)**
- Item 23: Hexagonal head bolt M10x1.25x30
 - Item 28: Flange Nut M10x1.25
 - Item 38: D10x24_2 Washer



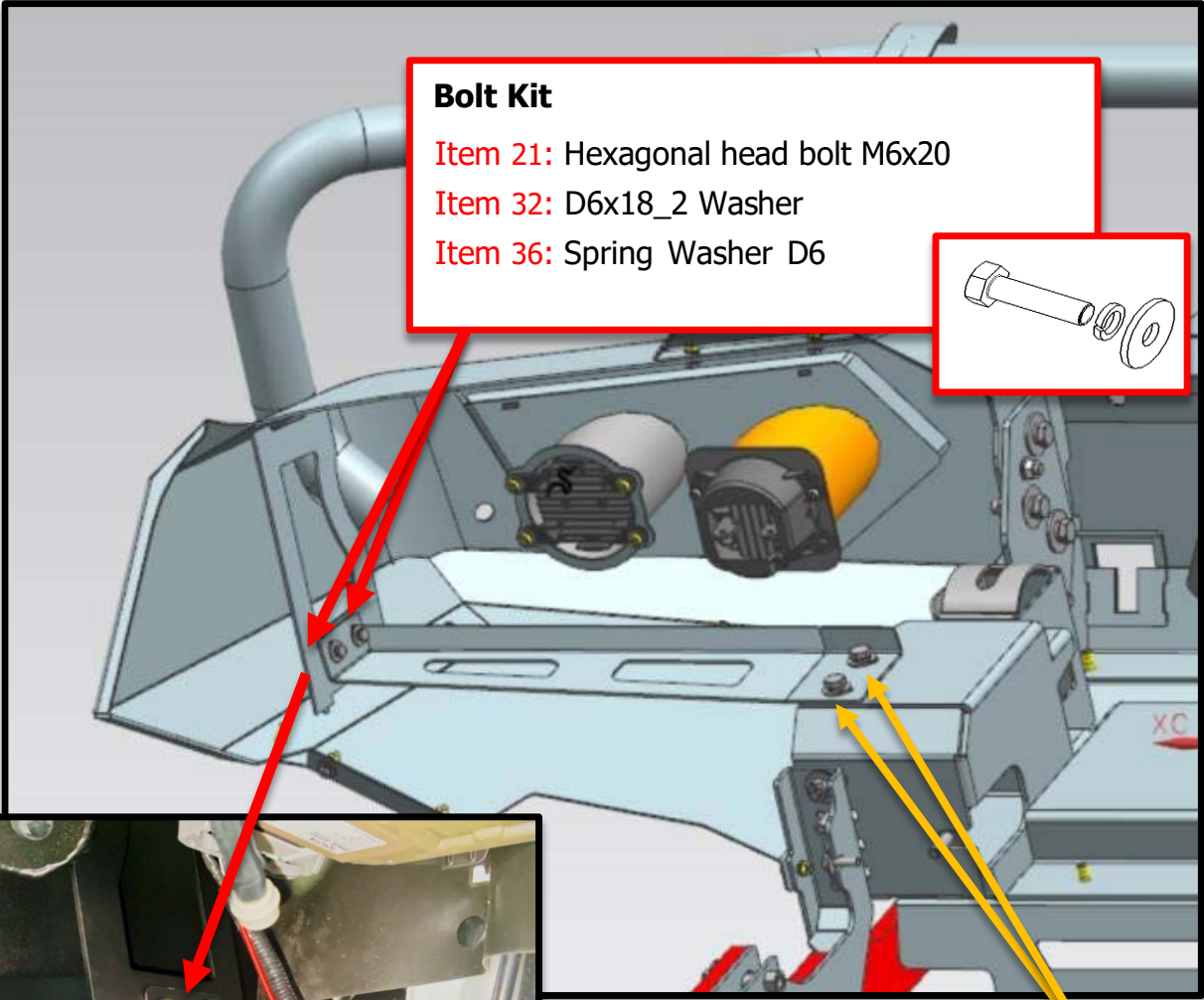
Brackets Needed for this section: 11 & 12



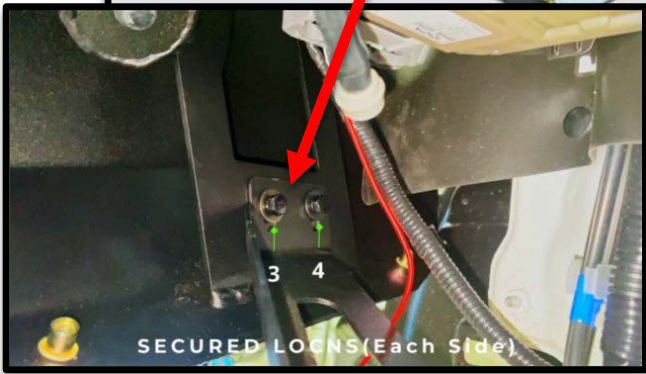
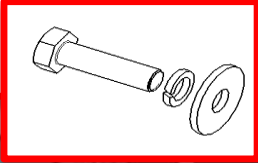
← **Item 11:** Wing Support Brackets (LHS)



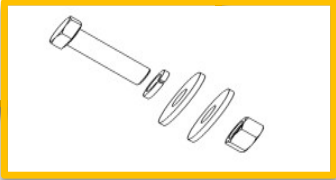
← **Item 12:** Wing Support Brackets (LHS)

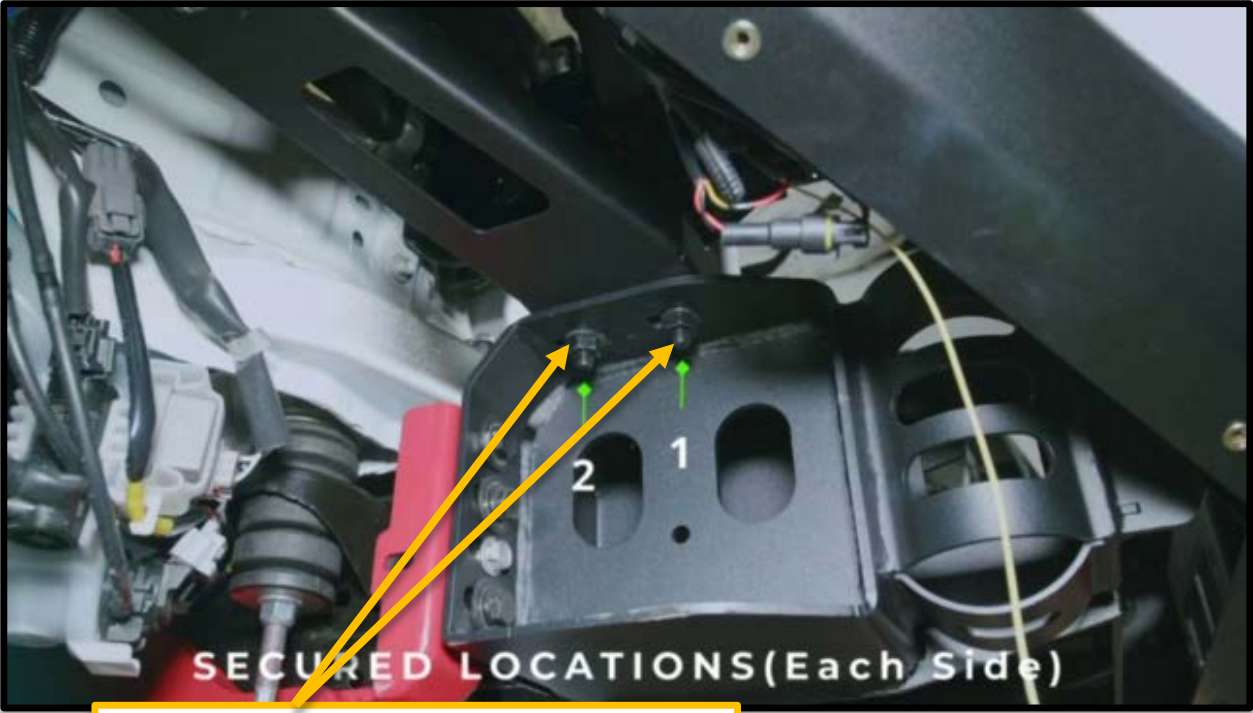
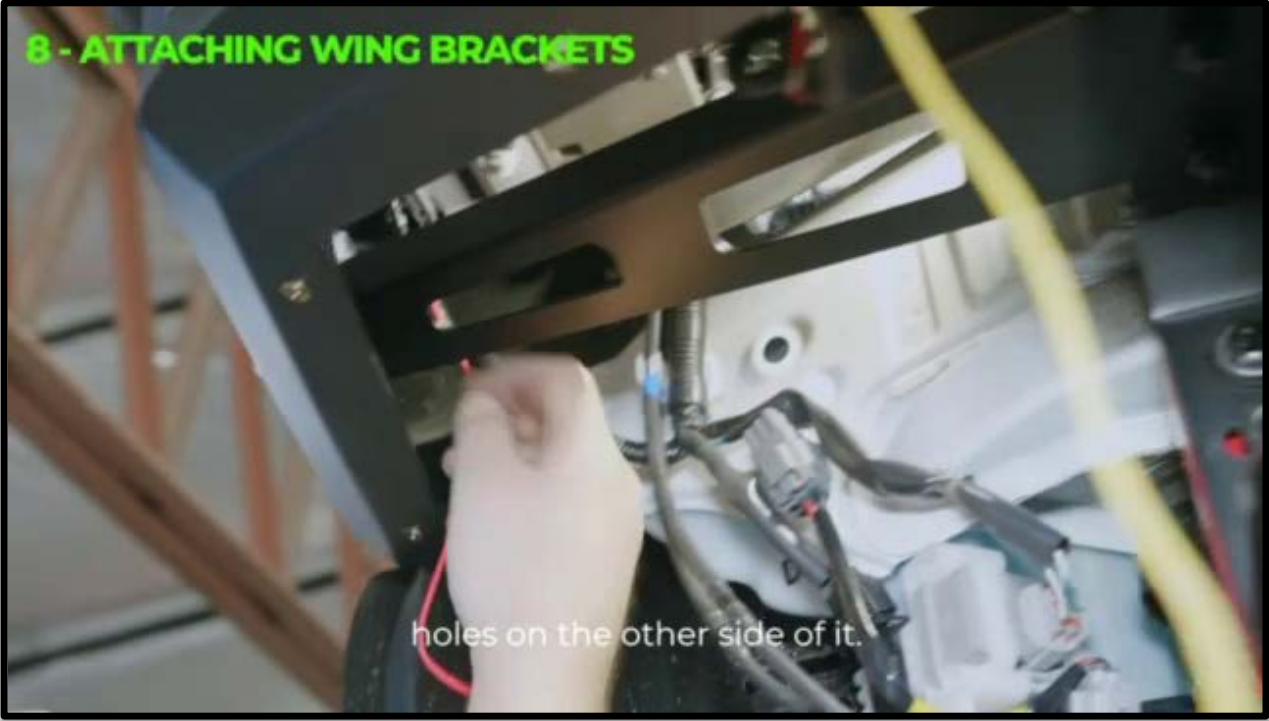


Bolt Kit
Item 21: Hexagonal head bolt M6x20
Item 32: D6x18_2 Washer
Item 36: Spring Washer D6

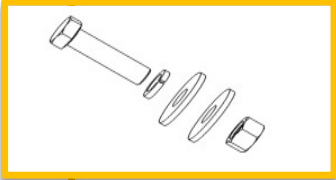


Bolt Kit
Item 17: Hexagonal head bolt M10x30
Item 28: Flange Nut M10x1.25
Item 34: Spring Washer D10
Item 38: D10x24_2 Washer



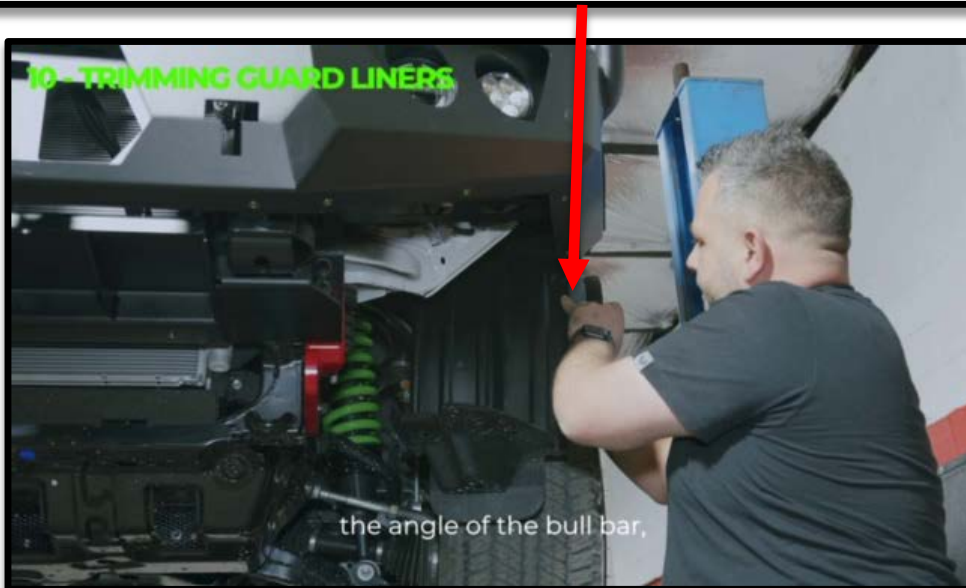


- Bolt Kit**
- Item 17:** Hexagonal head bolt M10x30
 - Item 28:** Flange Nut M10x1.25
 - Item 34:** Spring Washer D10
 - Item 38:** D10x24_2 Washer

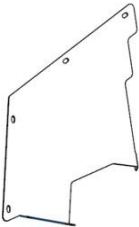


Installing the Bash Plates

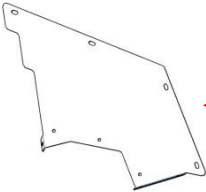
- Trim the guide liner to fit inside the bullbar.
- Follow the angle of the bullbar when trimming.
- Test-fit the bash plate to check for additional trimming.
- Secure the liner using a tek screw.
- Align and hand-tighten the supplied M6 bolts into the four holes and one additional hole.
- Adjust positioning to fit the final bolt.
- Secure all bolts using a power tool.
- Repeat the process for the opposite side.



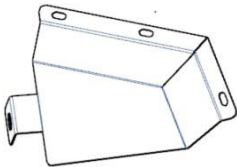
Brackets Needed for this section: 6,7,8,9 & 10



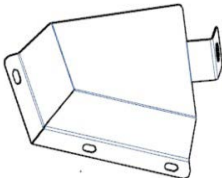
Item 6: Bash Plate (LHS)



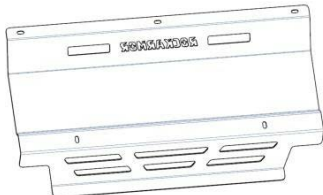
Item 7: Bash Plate (RHS)



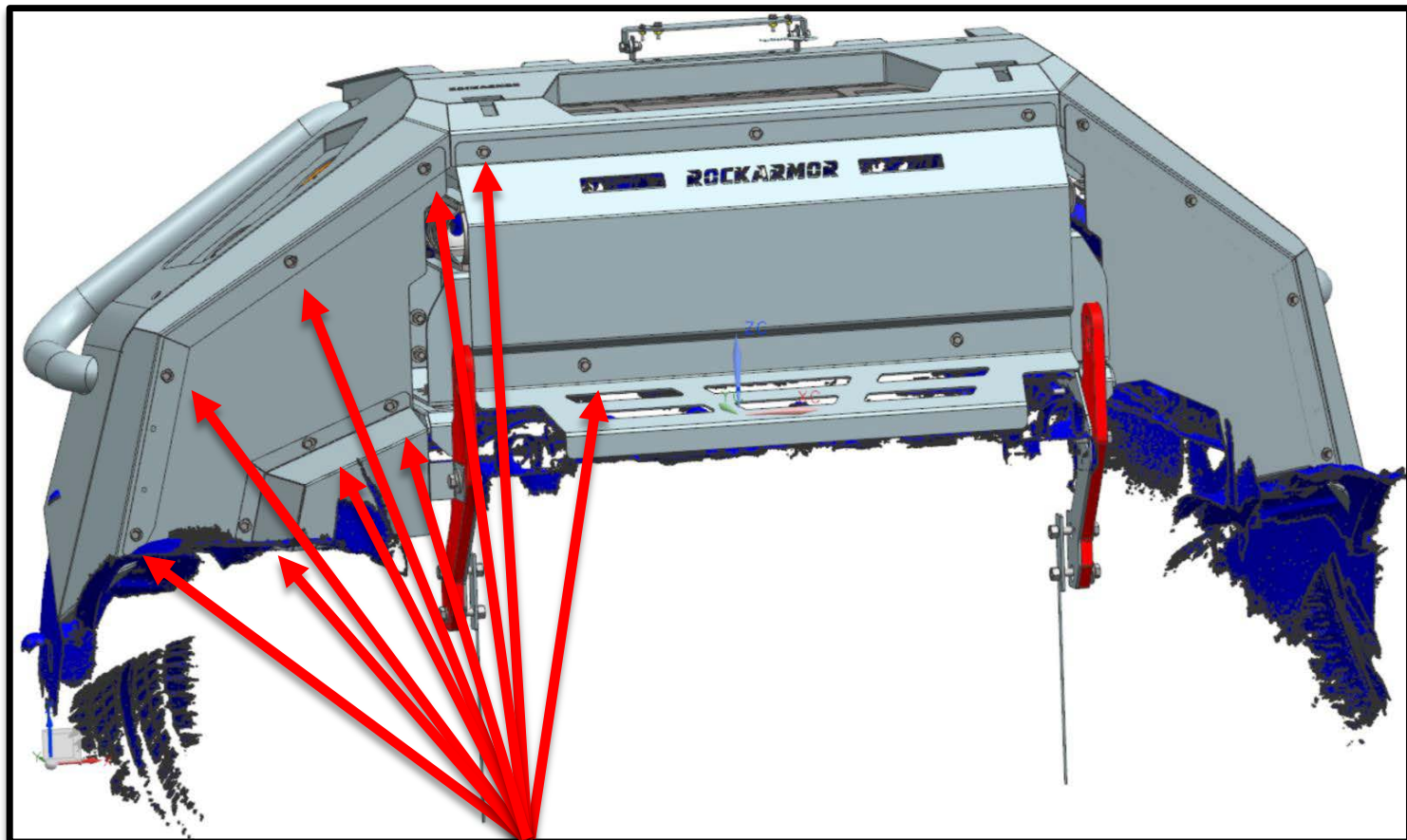
Item 8: Bash Plate (LHS)



Item 9: Bash Plate (RHS)



Item 10: Centre Bash Plate

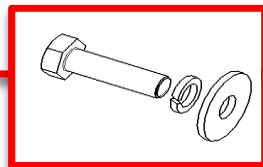


Bolt Kit (4)

Item 21: Hexagonal head bolt M6x20

Item 32: D6x18_2 Washer

Item 36: Spring Washer D6



Replicate Bash Plate bolt installation on both sides





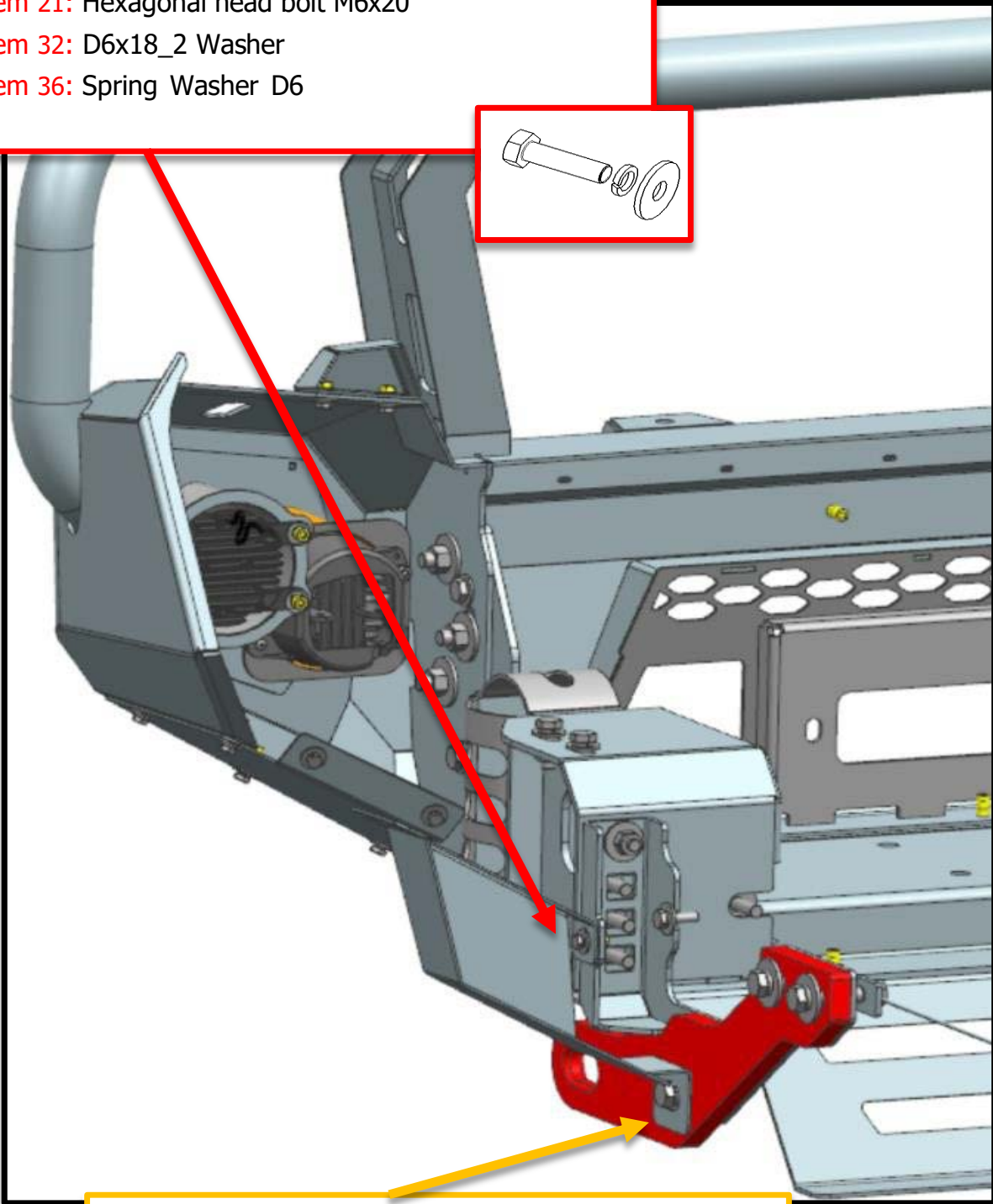
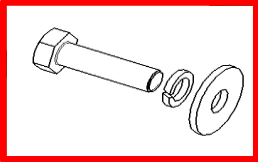


Bolt Kit

Item 21: Hexagonal head bolt M6x20

Item 32: D6x18_2 Washer

Item 36: Spring Washer D6

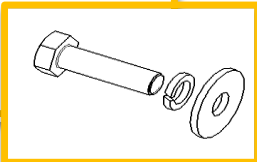


Bolt Kit

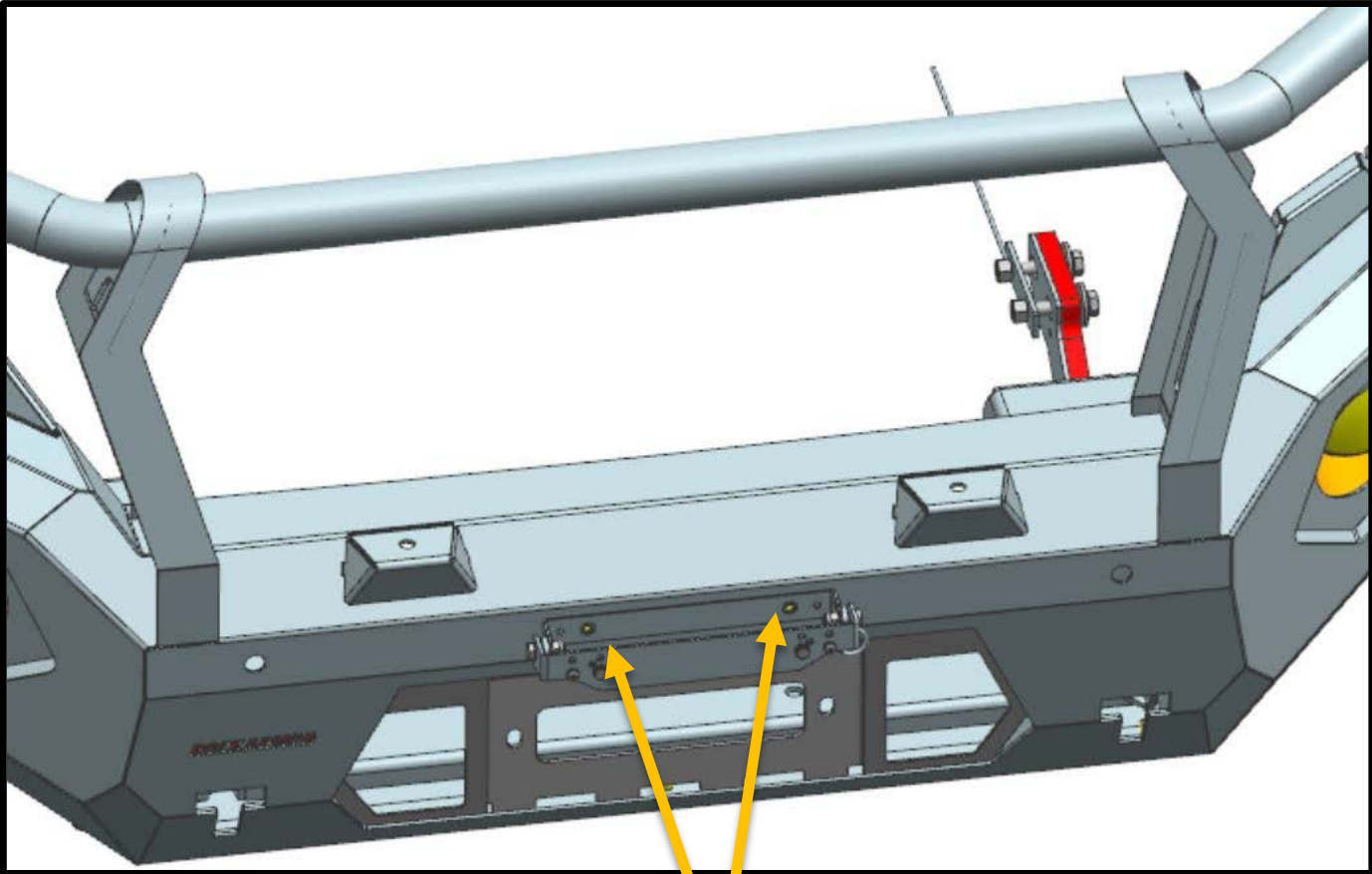
Item 25: Hexagonal head bolt M12x1.25x45

Item 31: D12x37_3 Washer

Item 35: Spring Washer D12

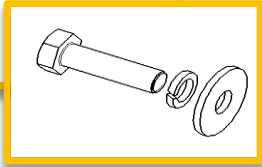


Brackets Needed for this section: 4



Bolt Kit

- Item 25:** Hexagonal head bolt M12x1.25x45
- Item 31:** D12x37_3 Washer
- Item 35:** Spring Washer D12



Tip: Suggest doing the auto electricals for the Parking Lights ,indicators and other Lighting needs.

We strongly advise you employ a qualified auto electrician to complete the auto Electrics on the Vehicle.

Re – Factory front sensors. Install the sensors onto the bar prior to bar installation, this way once the bar has been mounted it’s plug and play for sensor electrical connections

**Wiring Colour Codes from lights on the Rockarmor Bullbar:
Red - Fog Light
White - Park Light
Yellow - Indicator Light
Black - Earth (Ground)**



Final Assembly and Testing

- Description: Tighten all bolts to the specified torque values. Inspect the installation for stability and ensure all components are securely fastened. Test fit the guard to confirm there are no vibrations or misalignments.
- Safety Note: Do not operate the vehicle without completing the final inspection.

Rockarmor Disclaimer:

Rockarmor Pty Ltd takes no responsibility for any damages, injuries, or vehicle malfunctions resulting from improper installation or failure to follow the provided fitting instructions. We strongly recommend that the installation of this product be carried out by a qualified and experienced fitter with the appropriate tools and knowledge to ensure safety and proper functionality.

Any modifications to the product or deviations from the instructed procedure will void all warranties and transfer full responsibility to the installer and/or vehicle owner. Additionally, it is highly advisable for the vehicle to have a suspension upgrade when installing a bullbar. Rockarmor will not be responsible for any damage to the bullbar or vehicle if the suspension has not been upgraded. By proceeding with the installation, the installer acknowledges and accepts all risks and liabilities associated with the fitting process.

Suspension Upgrade Recommendation for Bullbar Installation

When installing a GT Bullbar, it is highly recommended to upgrade your vehicle's suspension to accommodate the additional weight of the bullbar and any other accessories, such as a winch. Neglecting to do so can lead to vehicle sag, compromised handling, and potential damage to the vehicle. The chassis and body of the vehicle move independently, and if the suspension has not been tailored to accommodate the additional accessories, you could seriously damage lights, panels, and other components due to excessive movement and stress on mounting points.

Front Suspension Upgrades:

- Assess the Added Weight: Determine the combined weight of the bullbar and any front-mounted accessories to ensure proper load distribution.
- Select Appropriate Springs: Upgrade to heavy-duty front springs rated for an additional 80 kg or more to maintain proper ride height and handling.

- **Consider Matching Shock Absorbers:** Pairing upgraded springs with compatible shock absorbers can enhance ride quality and control, reducing excessive movement.

Rear Suspension Considerations:

- **Evaluate Rear Accessories:** If adding accessories like rear bars, spare wheel carriers, or additional storage, assess the extra weight imposed on the rear suspension.
- **Upgrade Rear Springs or Add Support:** Installing heavier-duty rear springs or auxiliary support systems, such as airbag spring helpers, can help manage the increased load and prevent rear-end sag.

General Recommendations:

- **Combined Weight Consideration:** When installing multiple accessories, calculate the total additional weight to determine the necessary suspension upgrades.
- **Professional Consultation:** Before making suspension modifications, consult with a suspension specialist to ensure compatibility and optimal performance.
- **Regular Maintenance:** After upgrading, periodically inspect suspension components for wear and ensure all parts are functioning correctly.

By aligning your vehicle's suspension with the added weight of accessories, you maintain safety, performance, and the longevity of your vehicle's components. Failing to do so may result in long-term damage and expensive repairs.