ROCKARMOR

Fitting Instructions

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

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:

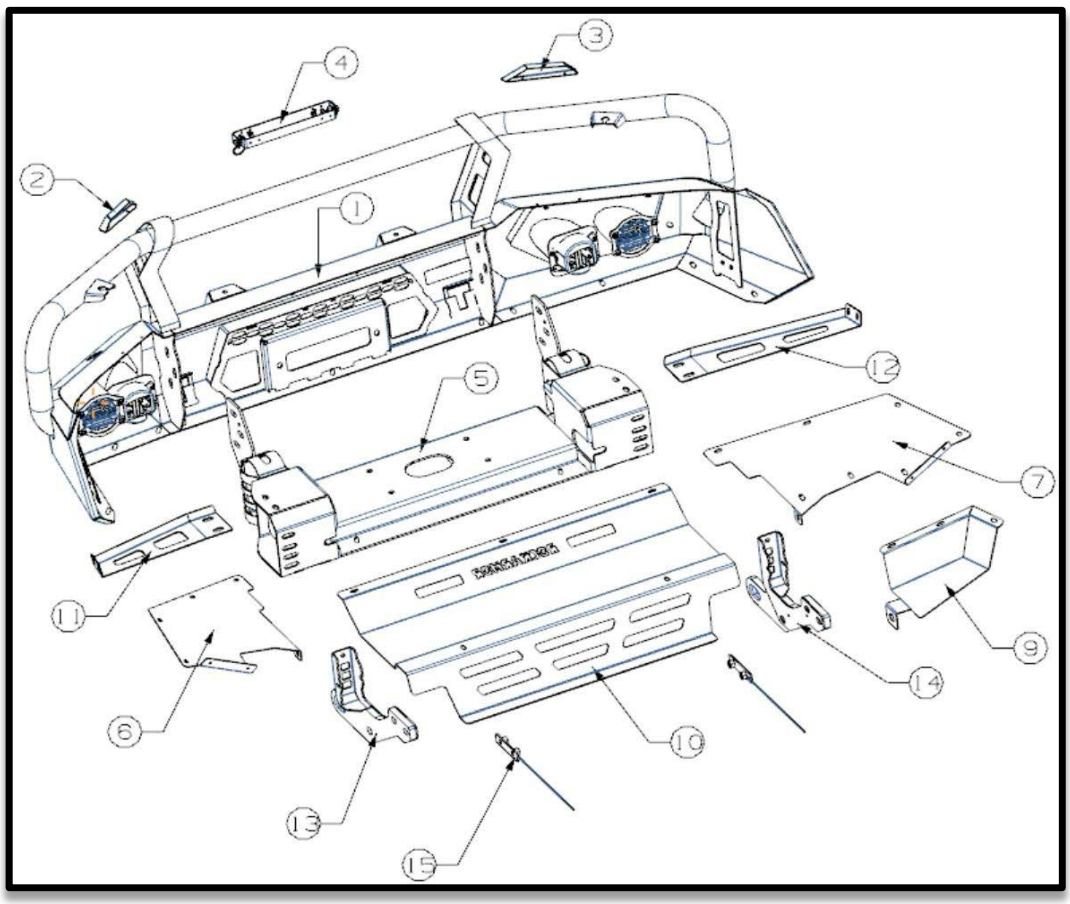
By proceeding with the installation, you acknowledge that the installer is responsible for following these instructions accurately. Rockarmor Pty Ltd will not be held liable for any damages, injuries, or vehicle malfunctions arising from improper installation or failure to adhere to the provided guidelines. 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

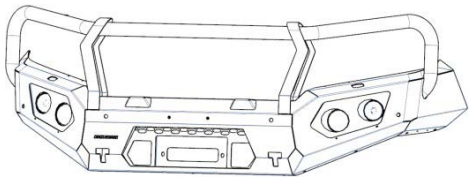
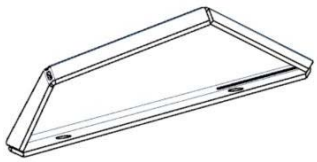
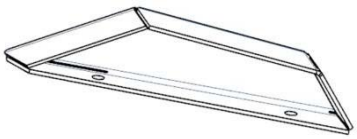
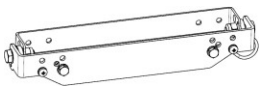
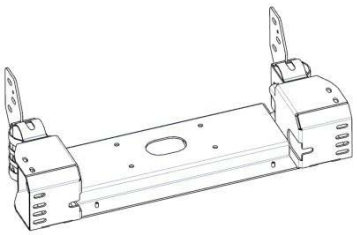
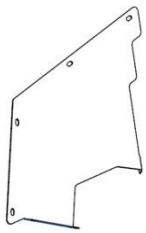
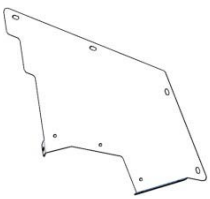
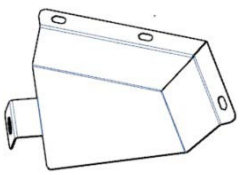
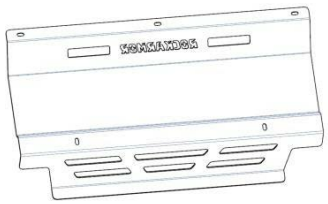
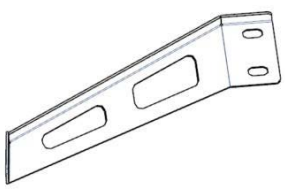
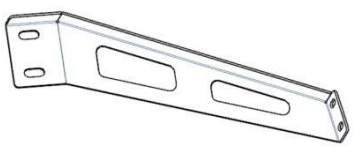
For a comprehensive guide on fitting the GT Bullbar, we highly recommend referring to our detailed video tutorial on YouTube:

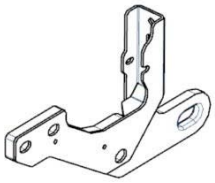
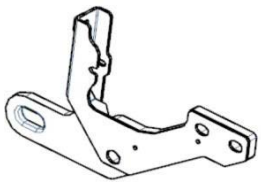
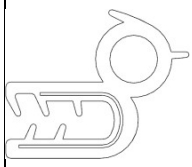
https://www.youtube.com/watch?v=zCLa01FVUg8

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

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

Item	Description	Qty
16	Flange Nut M6	9
17	Hexagonal head bolt M10x35	18
19	Flanged Bolt M12x45	11
21	Hexagonal head bolt M6x20	26
22	Hexagonal head bolt M8x30	4
27	Flanged M12	6
28	Flange Nut M10	10

Flange Bolt and Flange Nut (Ribbed) – What They Are and Why We Use Them

A flange bolt is basically a strong bolt with a built-in washer under the head. Same goes for the flange nut – it's got a wide base like a washer and often comes with ribbing or serrations underneath. These ribs help the nut grip onto the surface, almost like tiny teeth locking it in place, so it doesn't work itself loose.

We've switched to using ribbed flange bolts and nuts for a good reason. When you're installing something solid like a bull bar on a 4WD – especially here in Australia – you need fasteners that can handle the punishment. Whether it's corrugated roads in the outback, rough trails, or just day-to-day off-road driving, the constant vibration and bumps can slowly shake standard nuts and bolts loose.

That's where flange hardware really shines. It spreads out the pressure better than a normal bolt and washer setup, and the ribbed surface helps lock everything down without needing extra spring washers or thread locker. It also speeds up installation – fewer loose bits to handle.

Here's why we rate them for 4WD use:

- **Better grip** – the ribbed flange bites in and stays put
- **Handles vibration** – perfect for corrugations and rough terrain
- **No need for washers** – one solid piece does the job
- **Faster to install** – less fiddling around
- **Cleaner finish** – looks neater once fitted

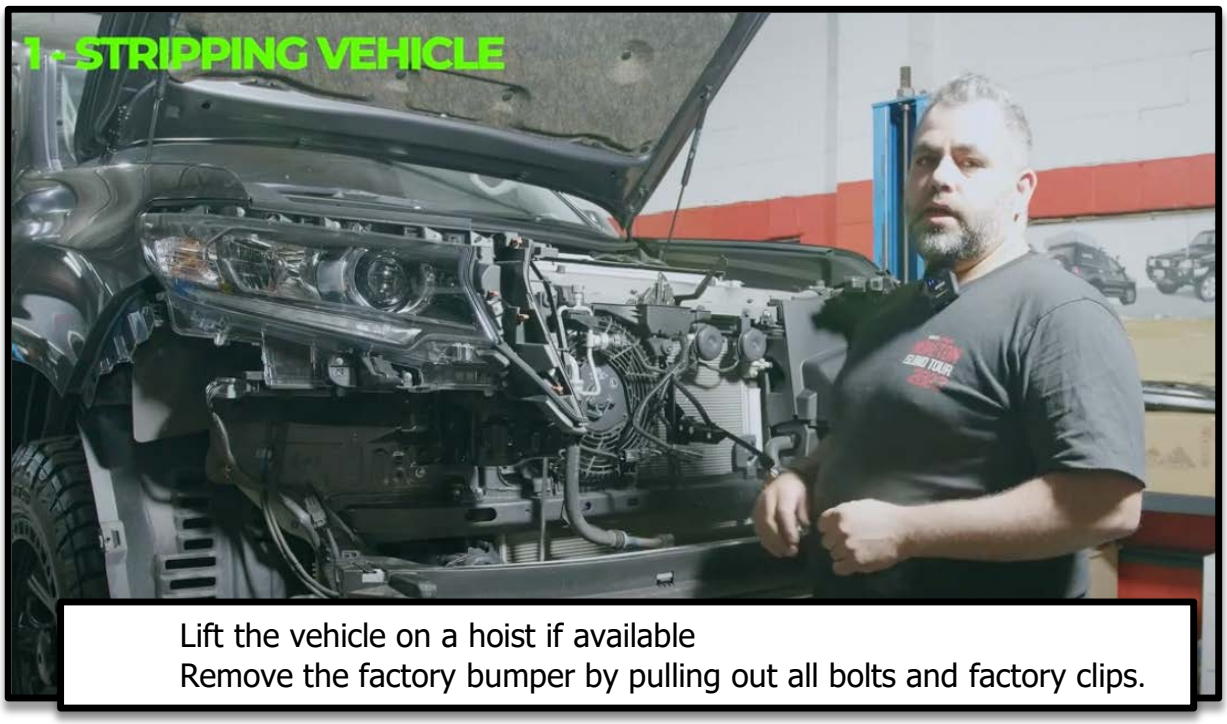
More secure – helps keep your bull bar where it belongs

Note:

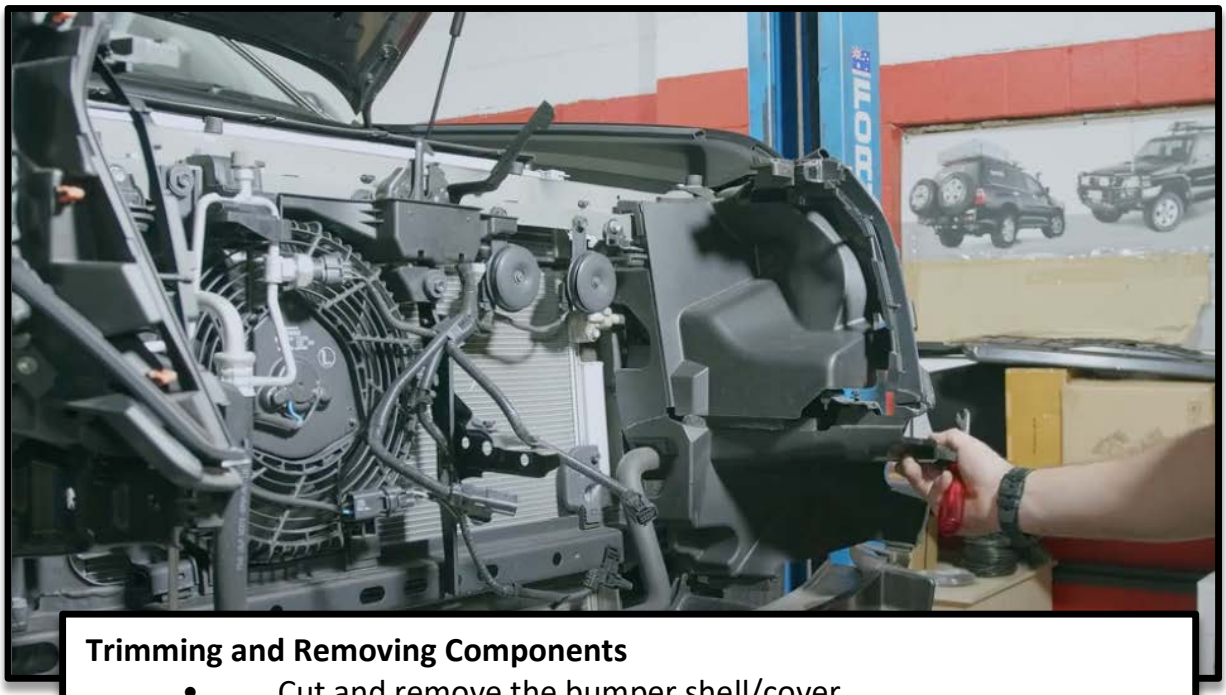
*You may notice some diagrams still show the older bolt setup with separate washers and nuts. We've now upgraded to ribbed flange bolts and nuts for a cleaner install and better durability on rough roads. For a quick summary of why this change matters, see the section titled "***Flange Bolt and Flange Nut (Ribbed) – What They Are and Why We Use Them** *?"*

Installation Steps:

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



Lift the vehicle on a hoist if available
Remove the factory bumper by pulling out all bolts and factory clips.



Trimming and Removing Components

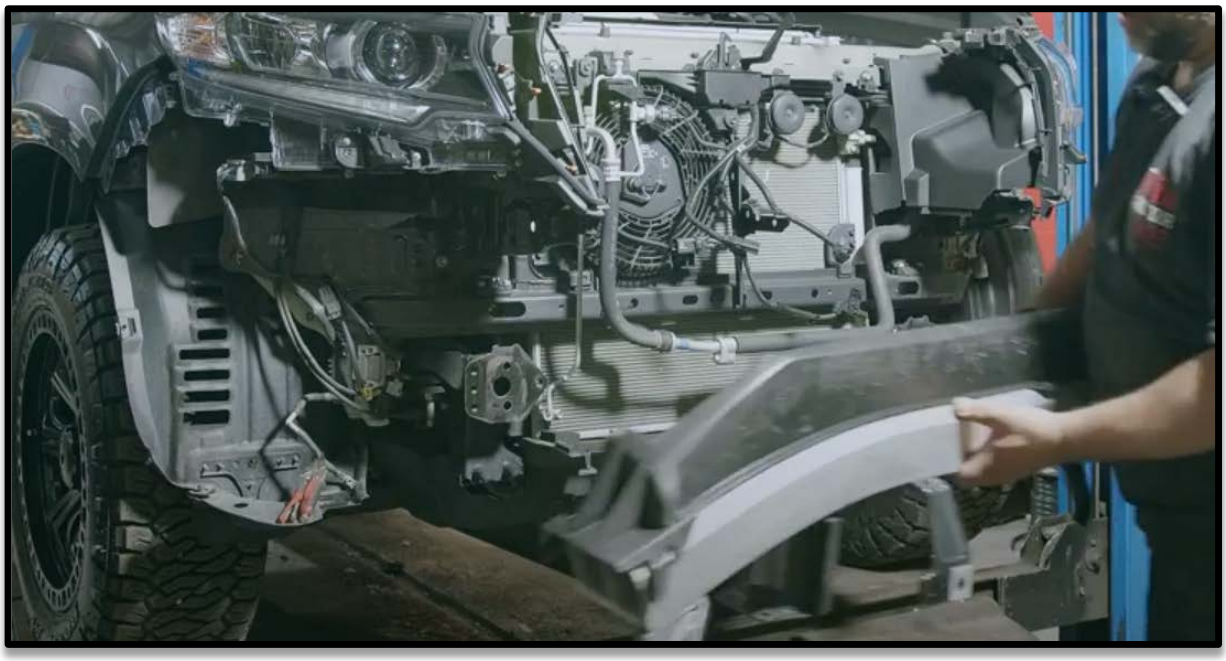
- Cut and remove the bumper shell/cover.
- Push and release the clips on both sides to remove the cover.
- Trim as necessary before reattaching.

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.

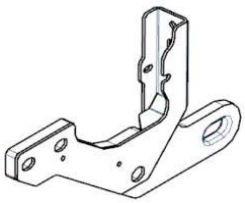


Removing the Plastic Cover

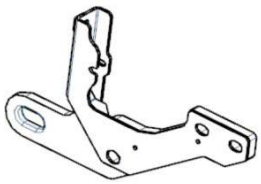
- Unscrew two bolts and remove the small plastic cover.
- Detach a tiny clip and discard the cover.

Brackets Needed for this section

Chassis Mount : Items 13,14,15



Item 13: Outside Bracket (LHS)



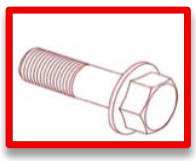
Item 14: Outside Bracket (RHS)

Item 15: Outside Bracket Holder

Bolt Kits Needed for this section

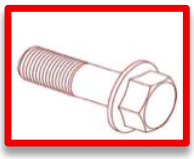
Bolt Kit (6)

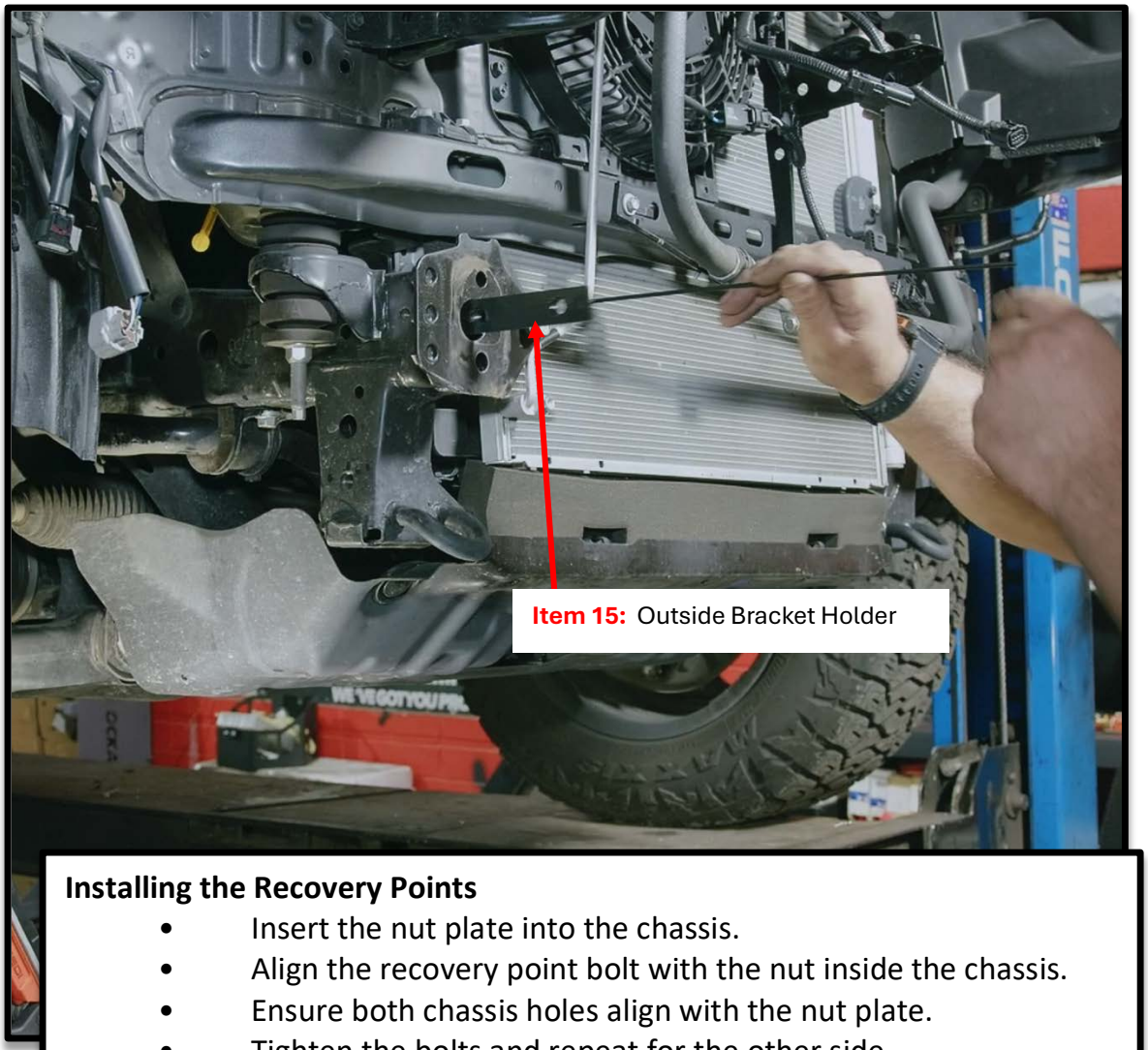
Item 19: Flanged Bolt M12x45



Bolt Kit (2)

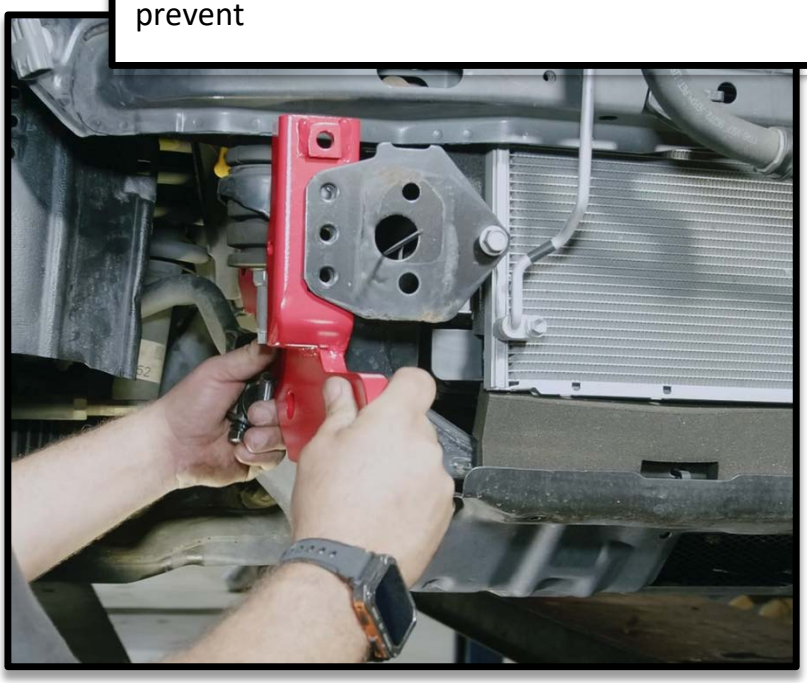
Item 22: Flanged Bolt M8x30

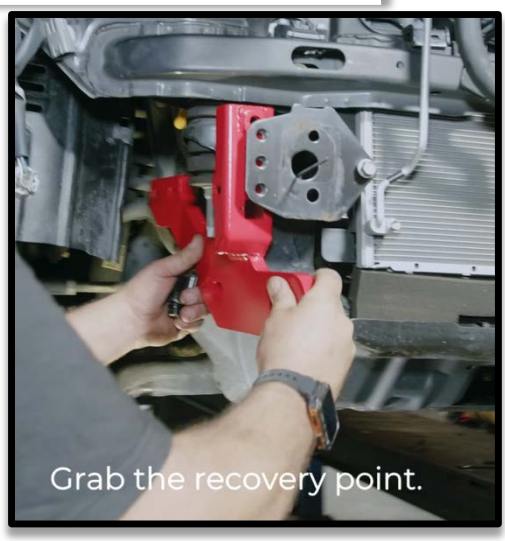


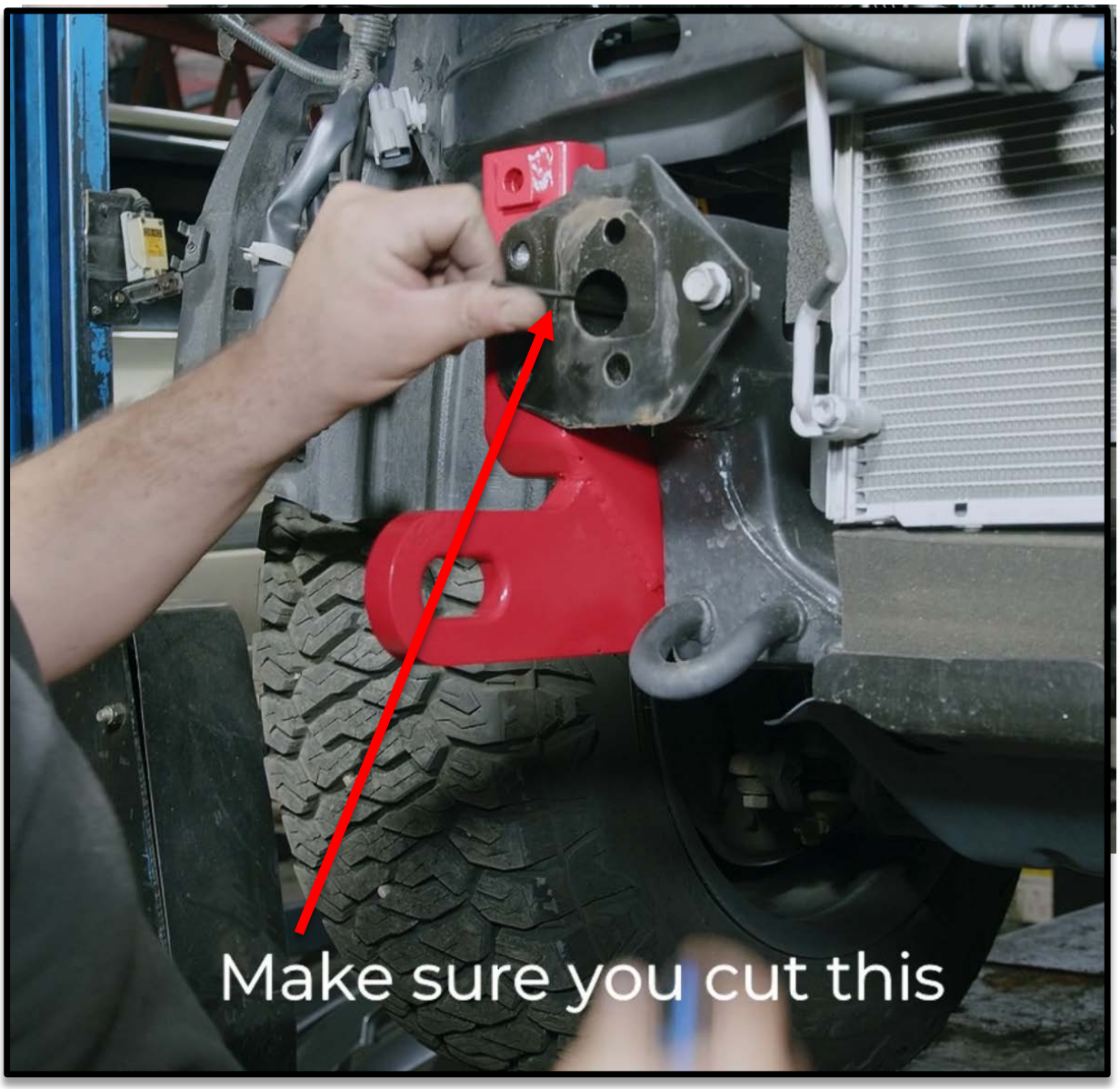


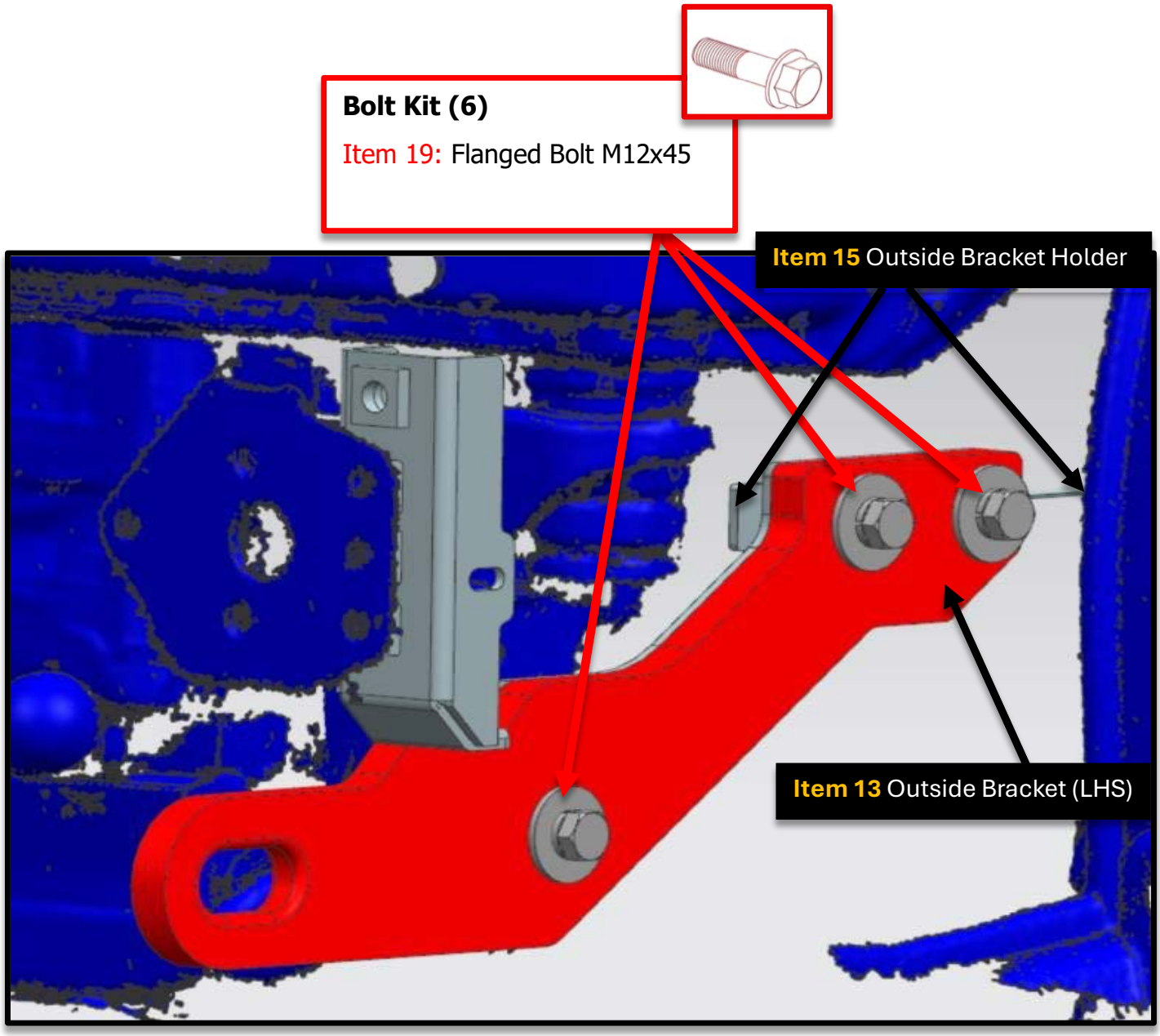
Installing the Recovery Points

- 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



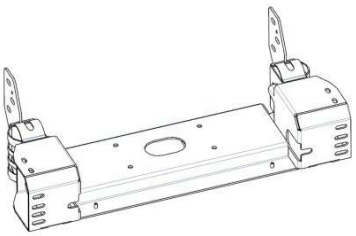



Make sure you cut this

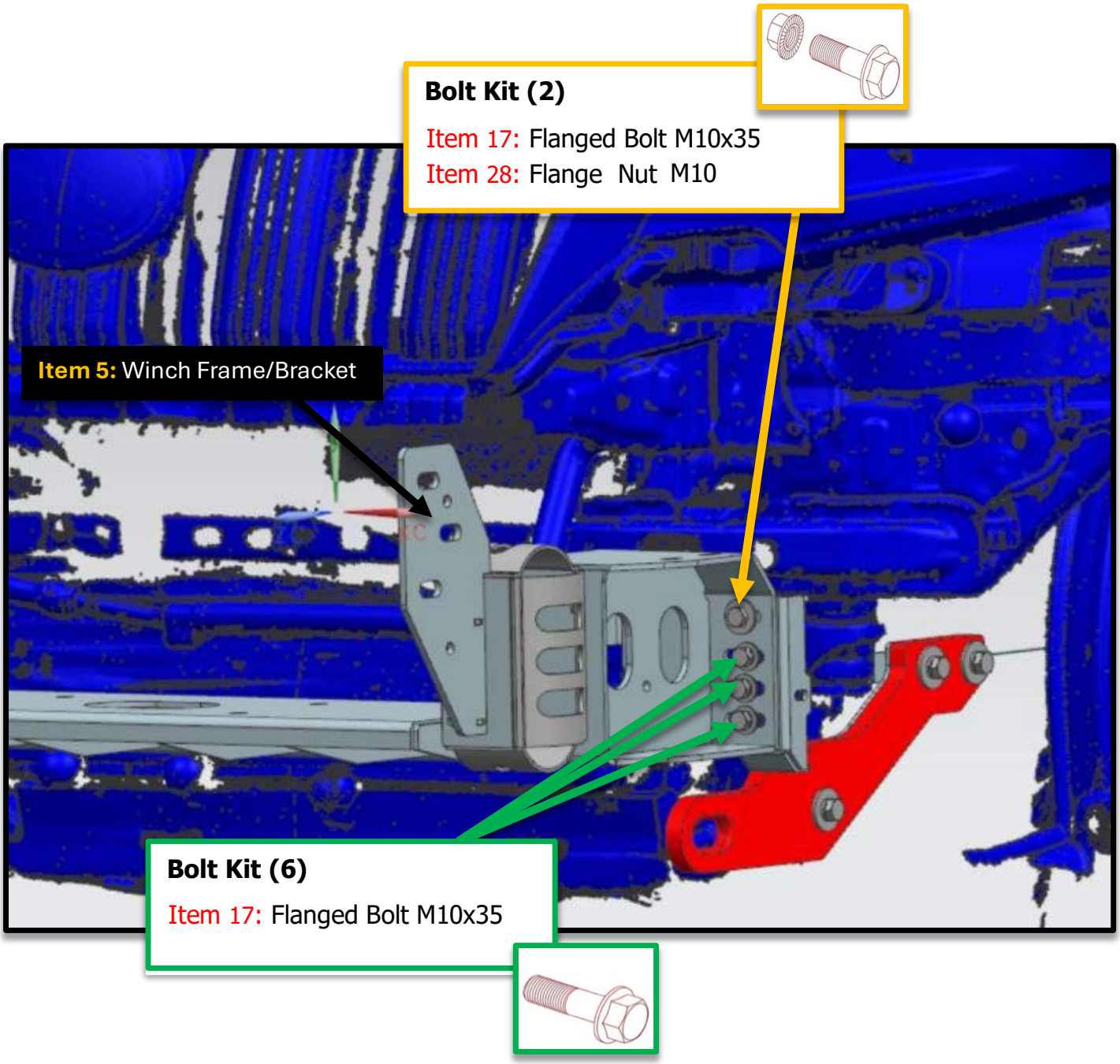

Bolt Kit (6)
Item 19: Flanged Bolt M12x45
Item 15 Outside Bracket Holder
Item 13 Outside Bracket (LHS)

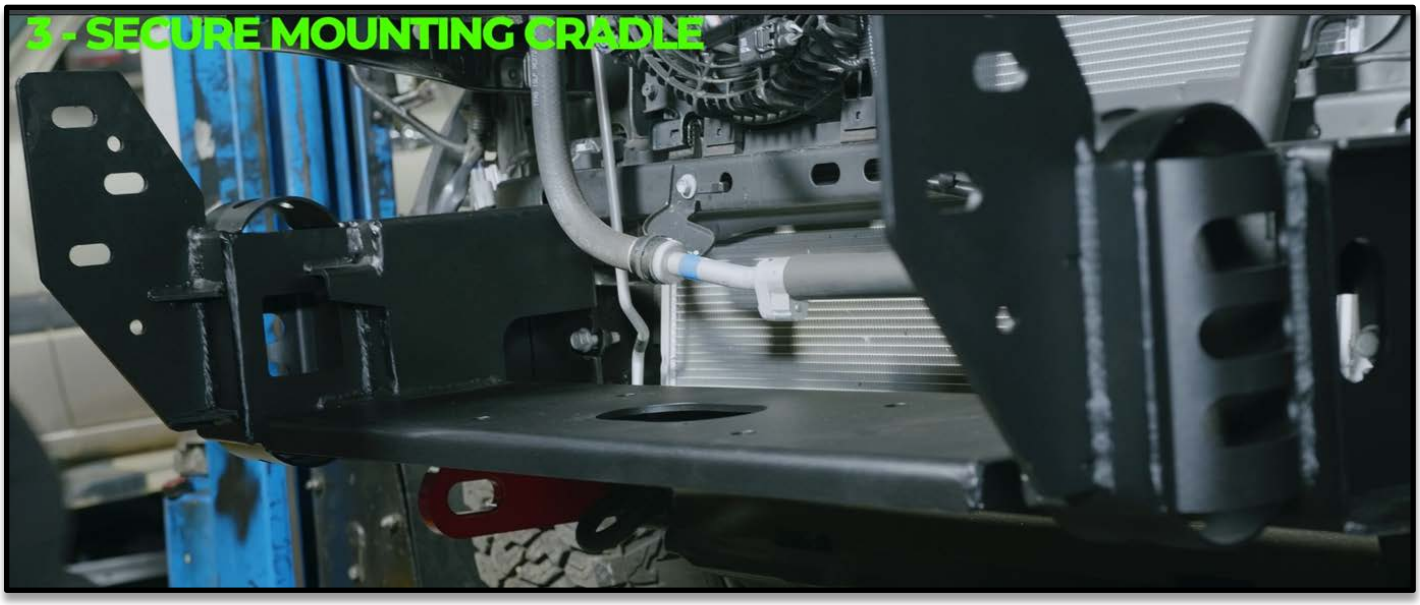

Bolt Kit (2)
Item 22: Flanged Bolt M8x30
Item 13 Outside Bracket (LHS)

Brackets Needed for this section



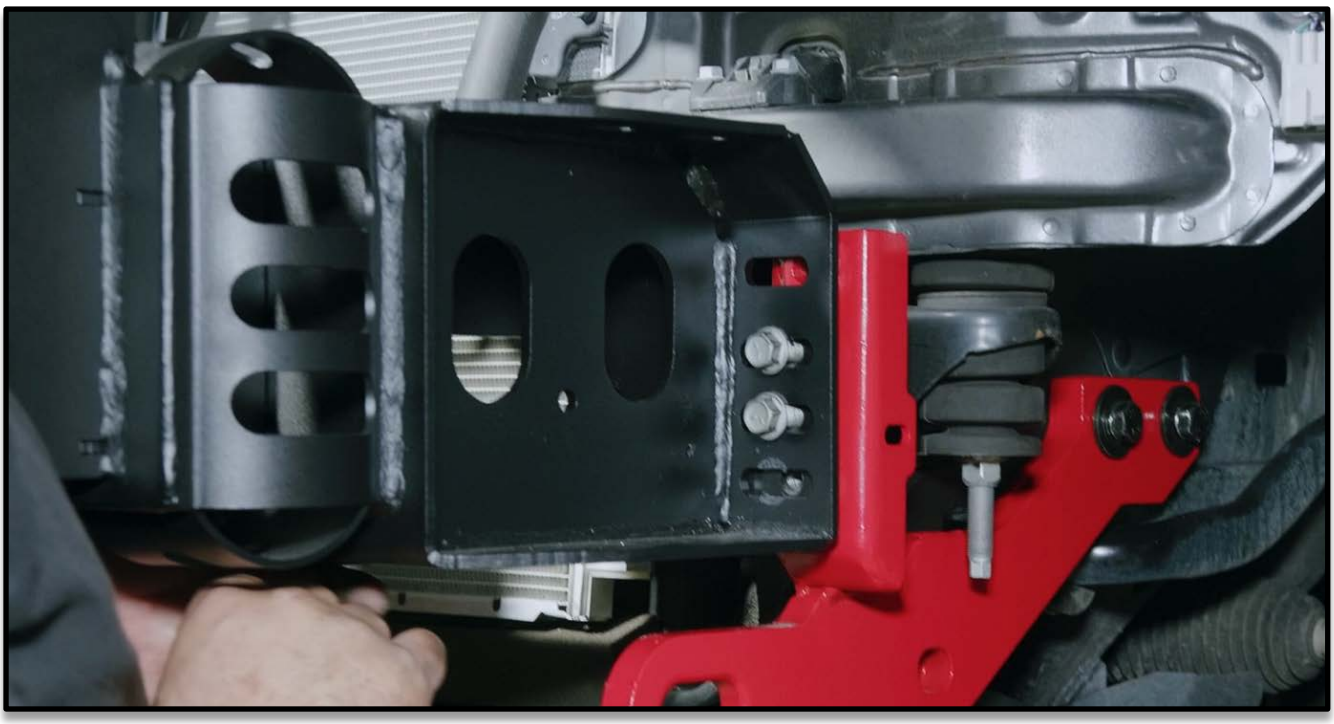
Item 5: Winch Frame/Bracket





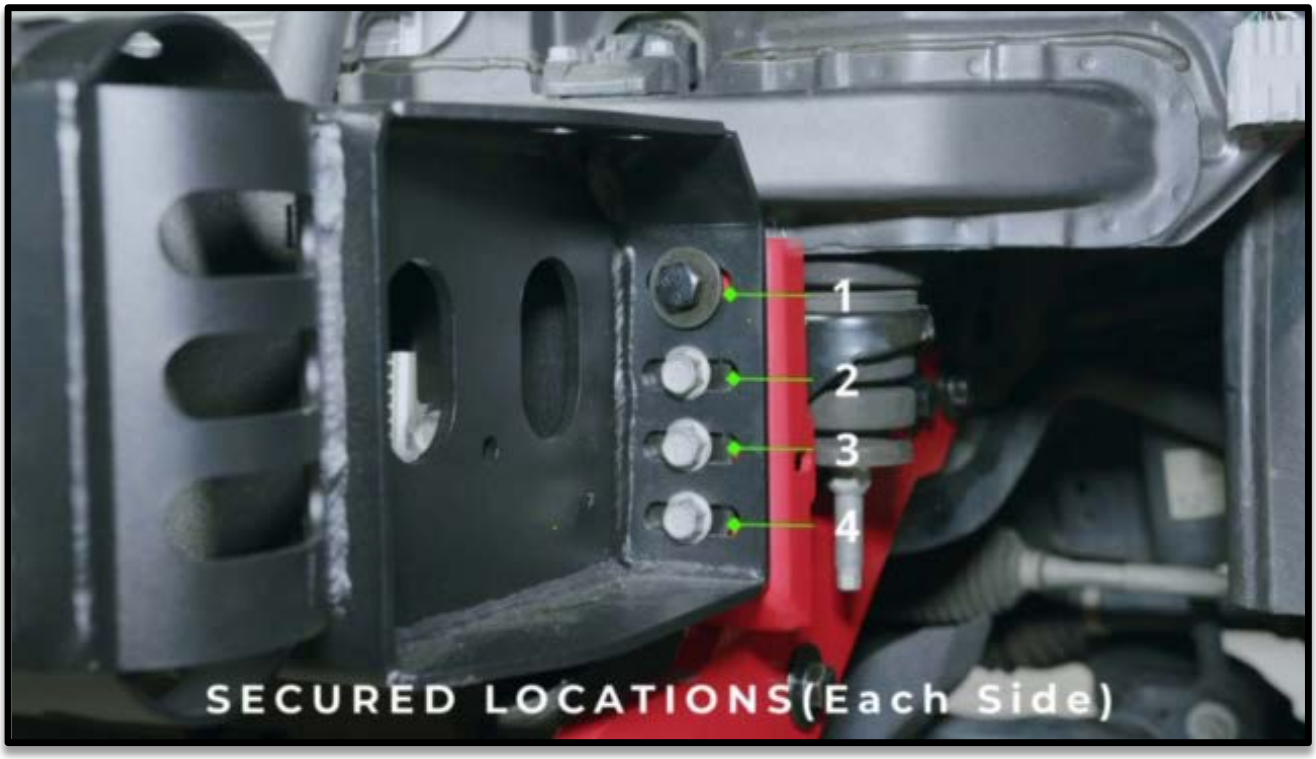
Installing the Cradle

- 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.
- Centre the cradle by measuring from the edges to ensure proper alignment.
- Tighten all bolts securely.



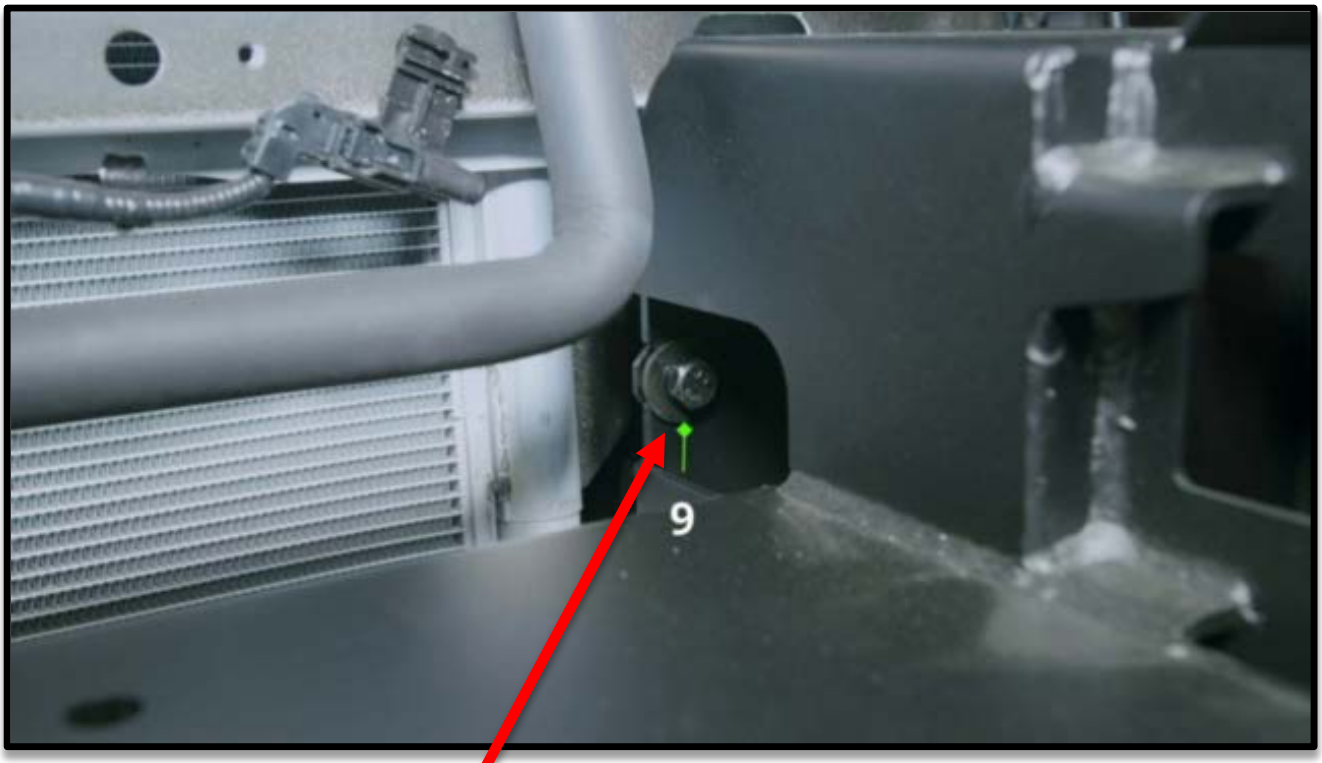

3 - SECURE MOUNTING CRADLE


4 - ALIGN CRADLE
measure from the edge of the cradle



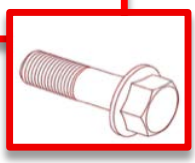
Securing the Cradle and Recovery Points

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



Bolt Kit (2)

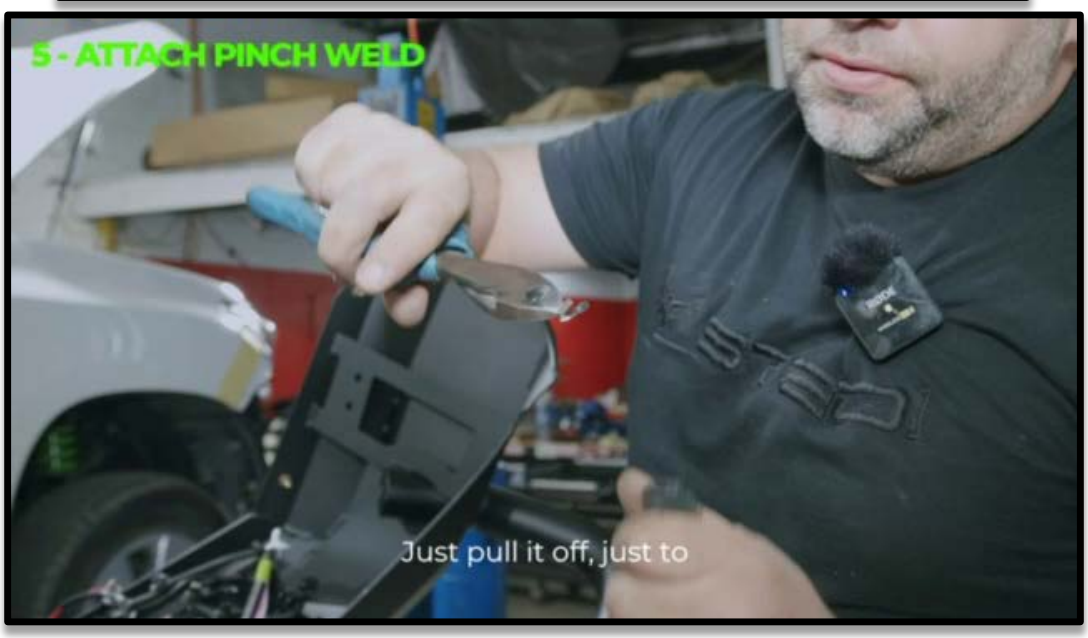
Item 17: Flanged Bolt M10x35



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.



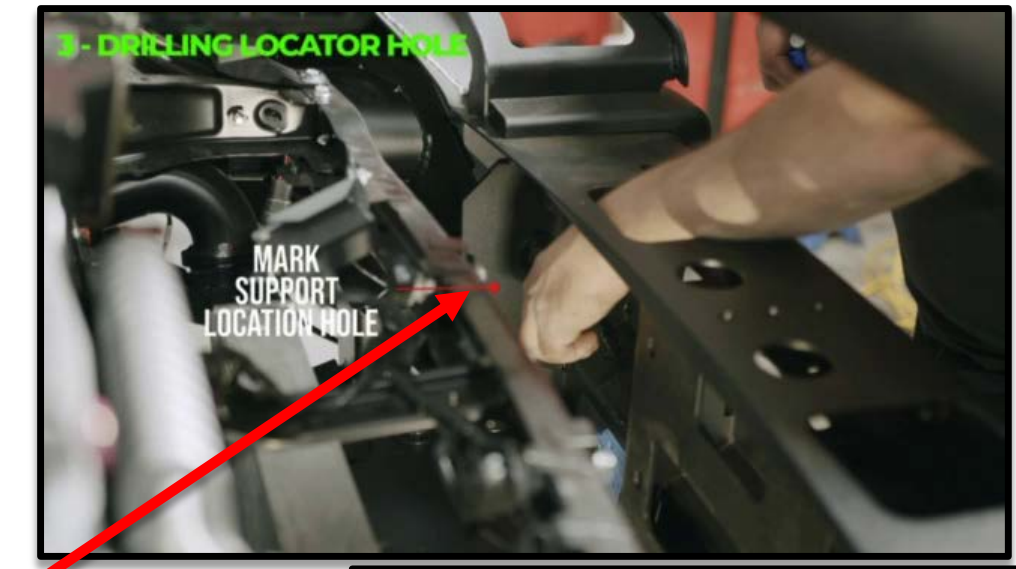
Fitting the Bullbar

- Align the three large holes on the cradle and bullbar.
- Insert 12 supplied U-bolts:
- **Bolt > Through Hole > 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.

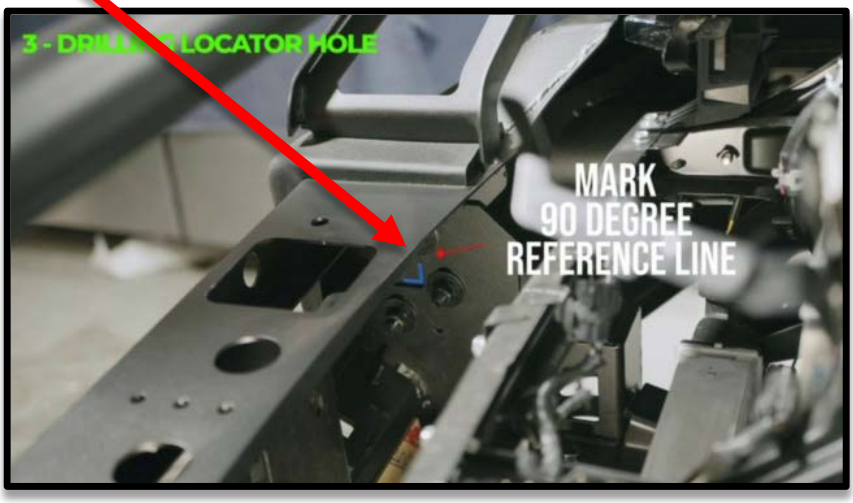
VERY IMPORTANT: Securing the Bullbar locator hole

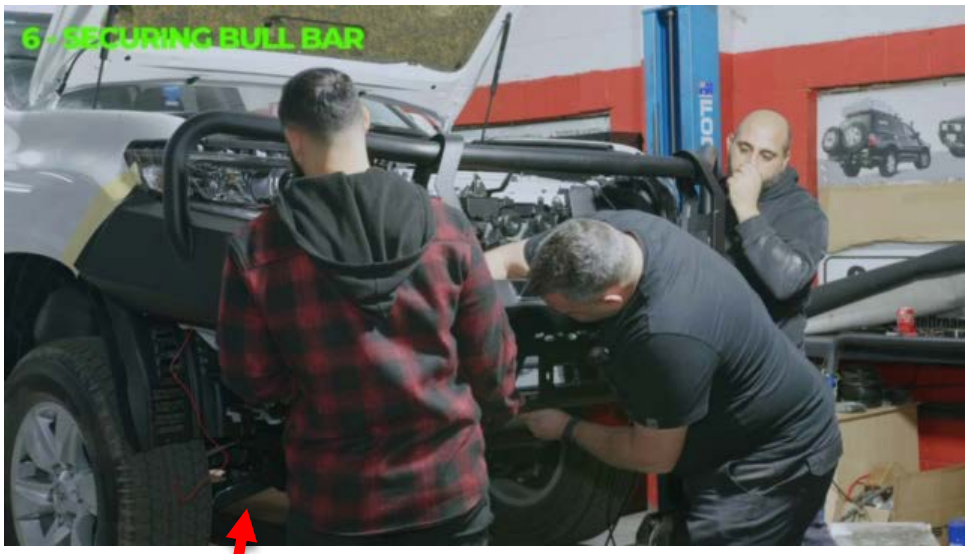
Please note the following section is a generic part of the installation that is needed in the installation of all GT bullbar's and thus photos of the bar may differ in the installation process.

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 relocator hols has been tighten appropriately.



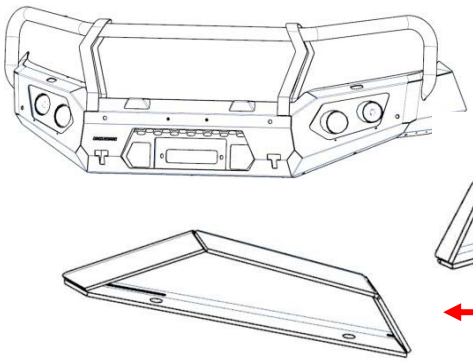


Remove bulbar from the frame in preparation of drilling the locator hole as marked in the previous section

Drill the locator hole as marked

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

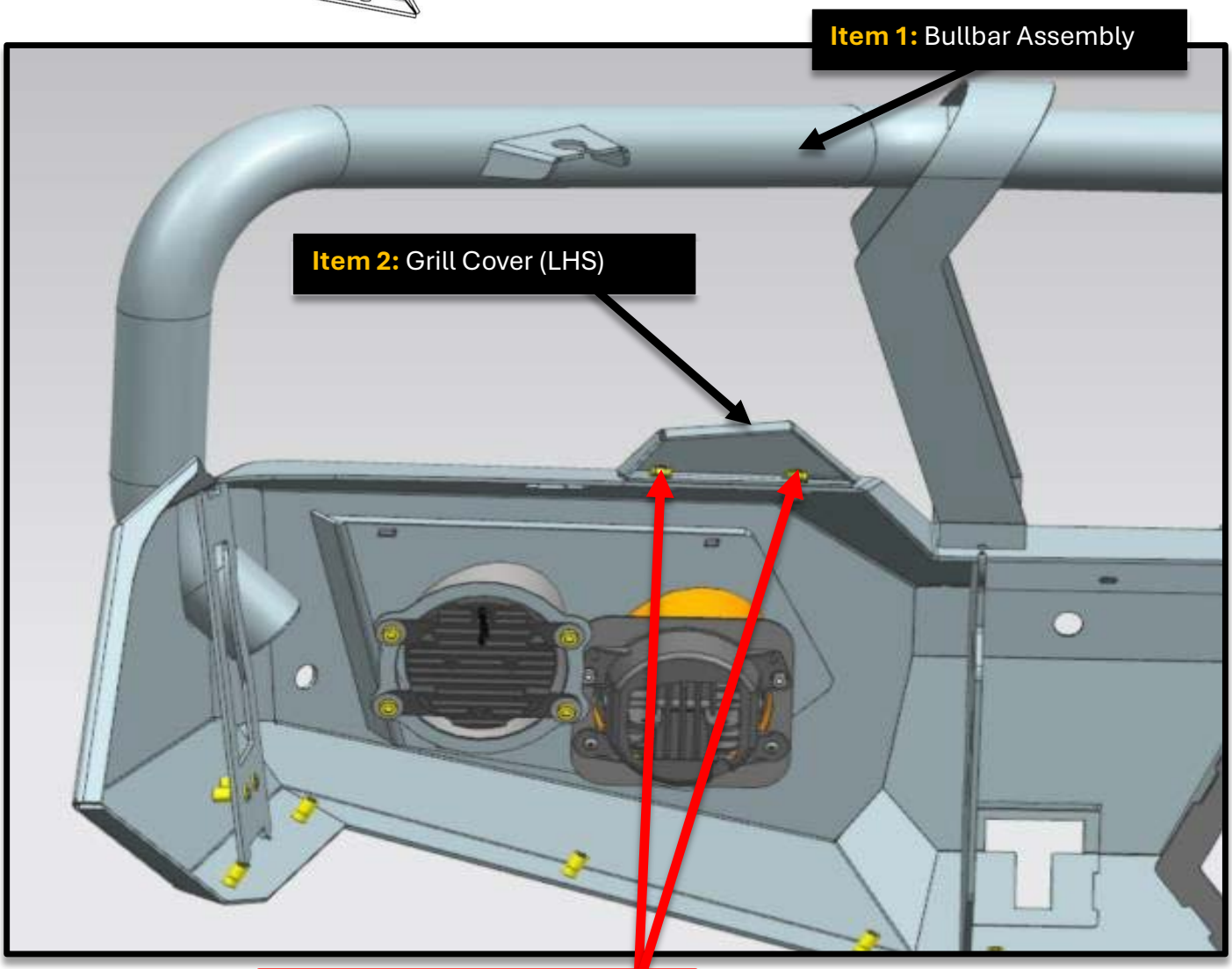
Brackets Needed for this section, 1,2,3



Item 1: Bullbar Assembly

Item 2: Grill Cover (LHS)

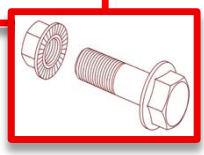
Item 3: Grill Cover (RHS)



Bolt Kit (4)

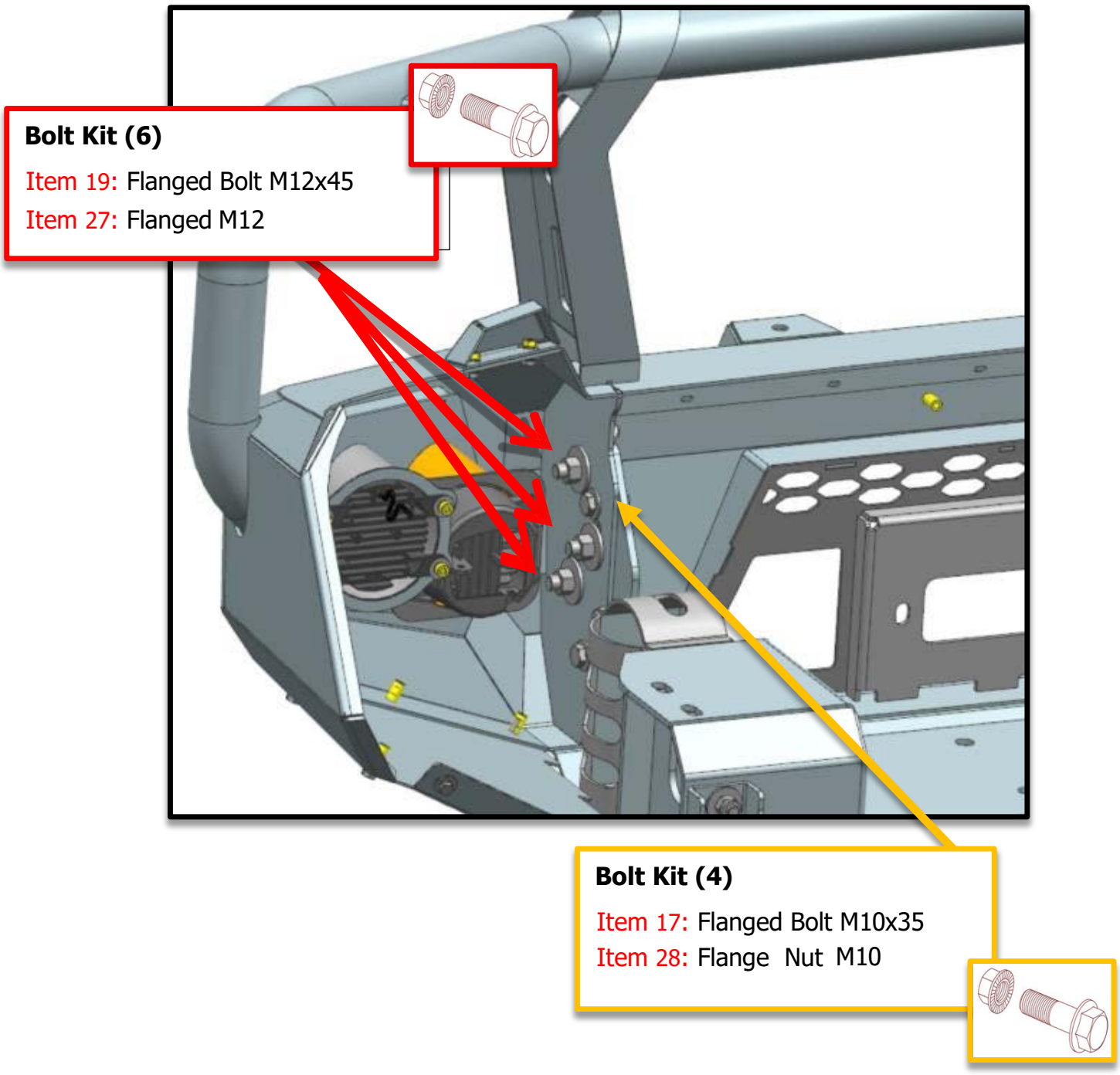
Item 16: Flange Nut M6

Item 21: Flanged Bolt M6x20



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

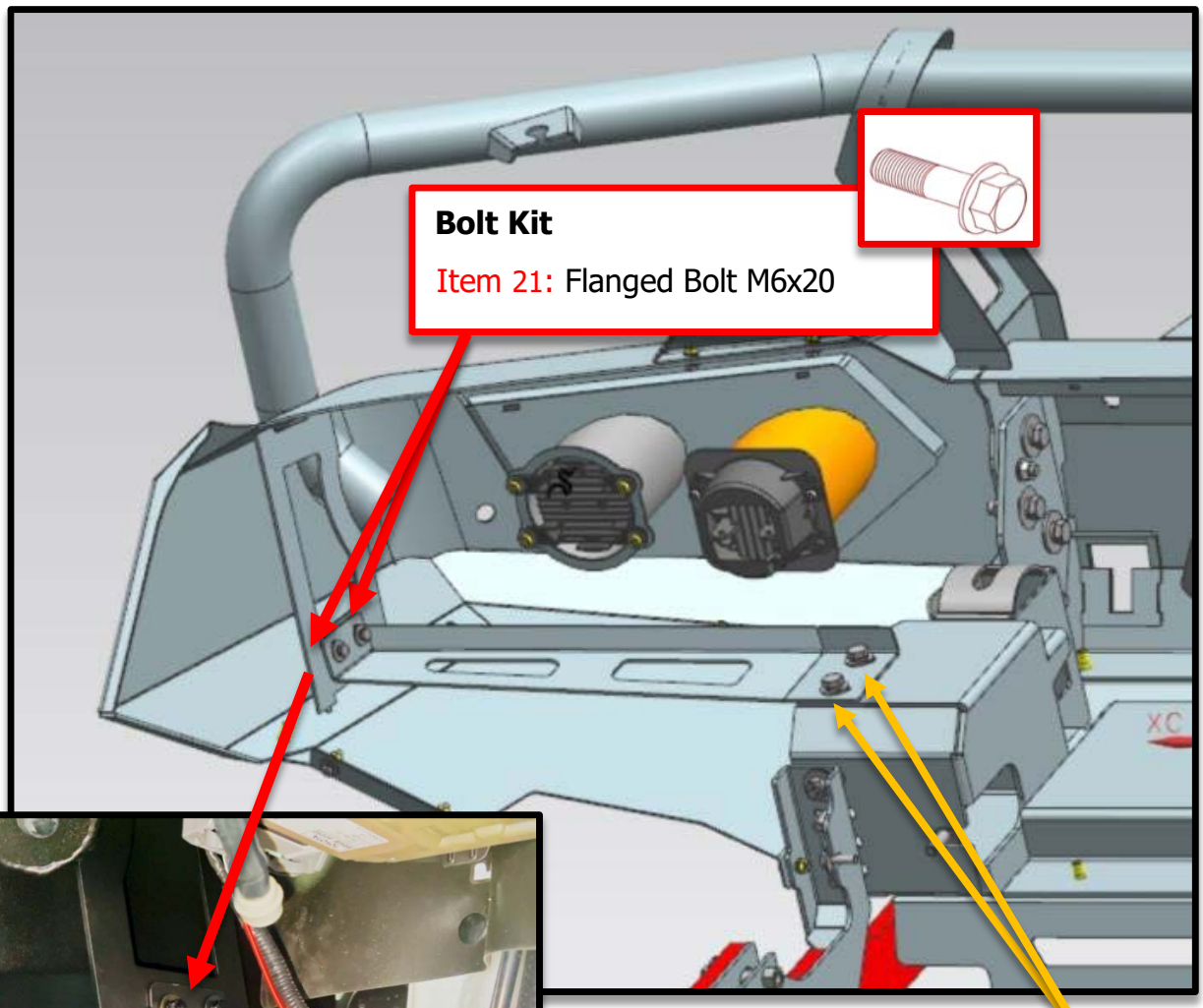
Use below bolt kits: Mount the Bull Bar to the cradle, allow enough gap for flex before tightening (15mm is recommended).

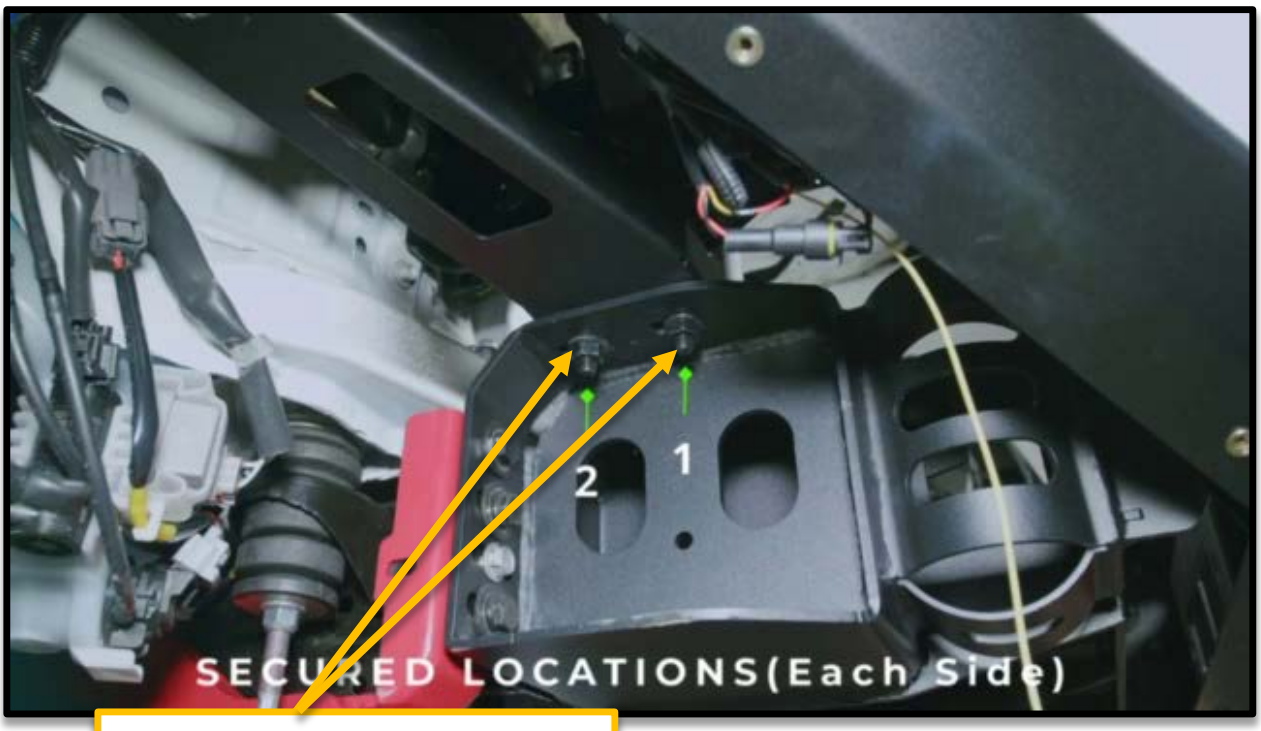


Brackets Needed for this section: 11 & 12

Item 11: Wing Support Brackets (LHS)

Item 12: Wing Support Brackets (LHS)

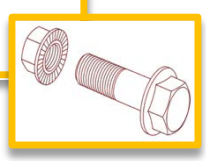




Bolt Kit

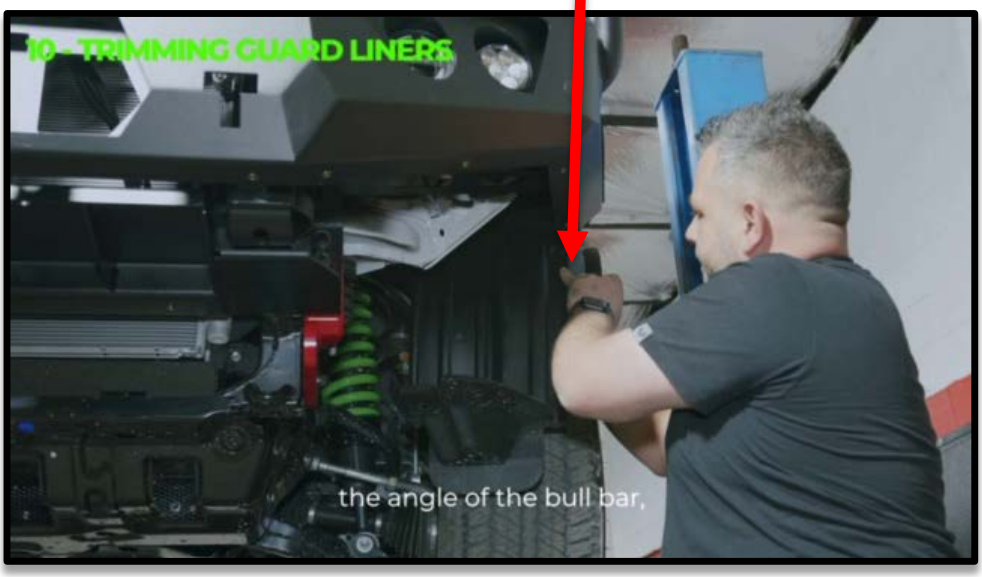
Item 17: Flanged Bolt M10x35

Item 28: Flange Nut M10

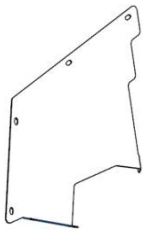


Installing the Bash Plates

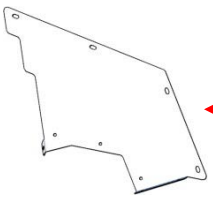
- Trim the guide liner to fit inside the bullbar.
- Follow the angle of the bullbar when trimming.
- Test-fit the bash plate to check for additional trimming.
- Secure the liner using a tek screw.
- Align and hand-tighten the supplied M6 bolts into the four holes and one additional hole.
- Adjust positioning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



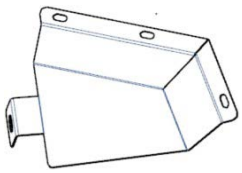
Brackets Needed for this section: 6,7,8,9 & 10



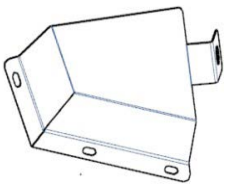
Item 6: Bash Plate (LHS)



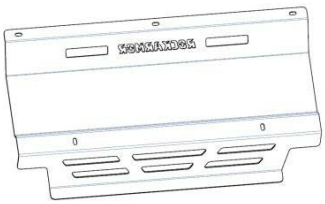
Item 7: Bash Plate (RHS)



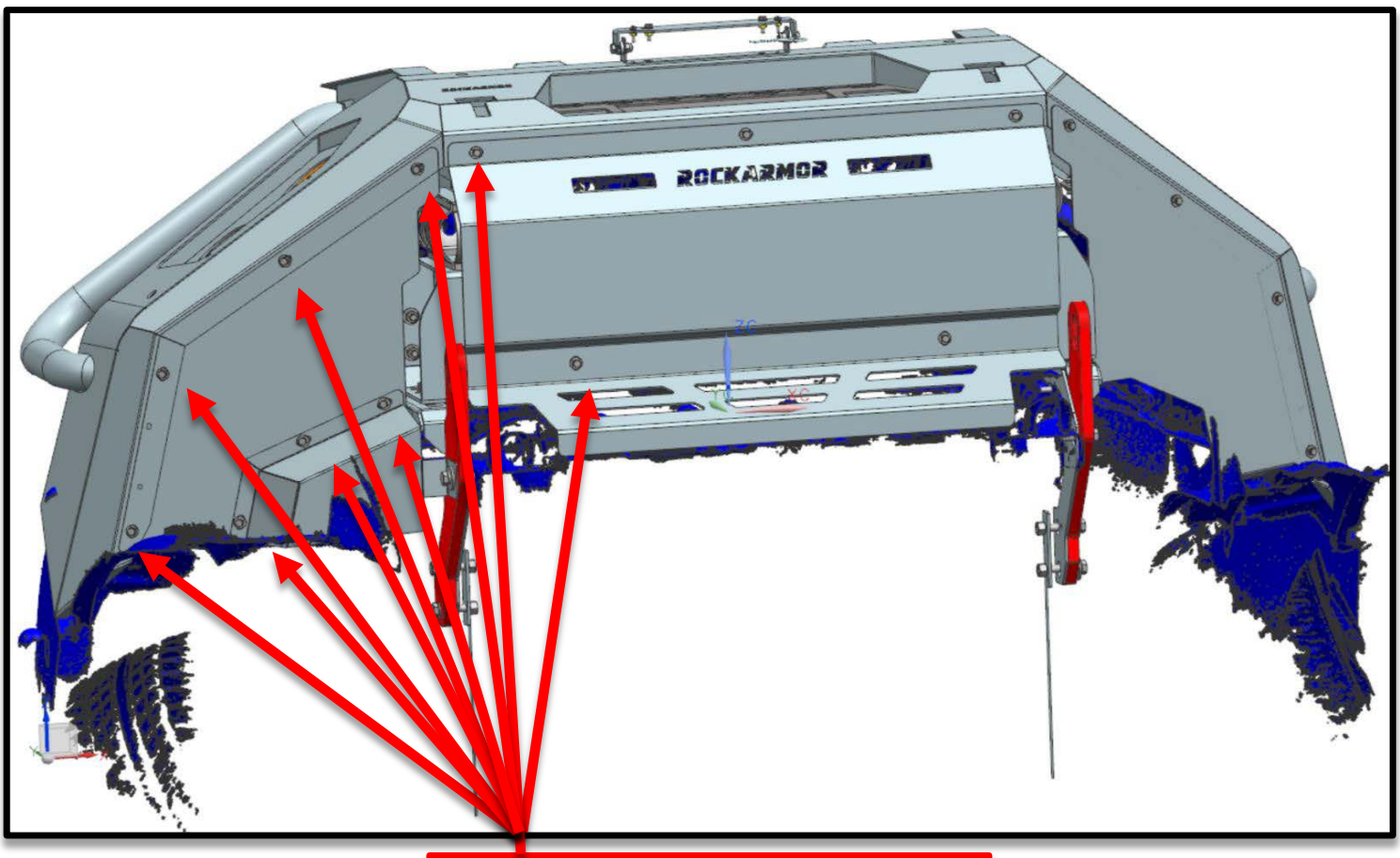
Item 8: Bash Plate (LHS)



Item 9: Bash Plate (RHS)

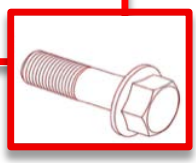


Item 10: Centre Bash Plate



Bolt Kit (4)

Item 21: Flanged Bolt M6x20



Replicate Bash Plate bolt installation on both sides


10 - TRIMMING GUARD LINERS
if we need to trim more.


11 - SECURE BASH PLATES
You got a bolt, spring washer, washer.

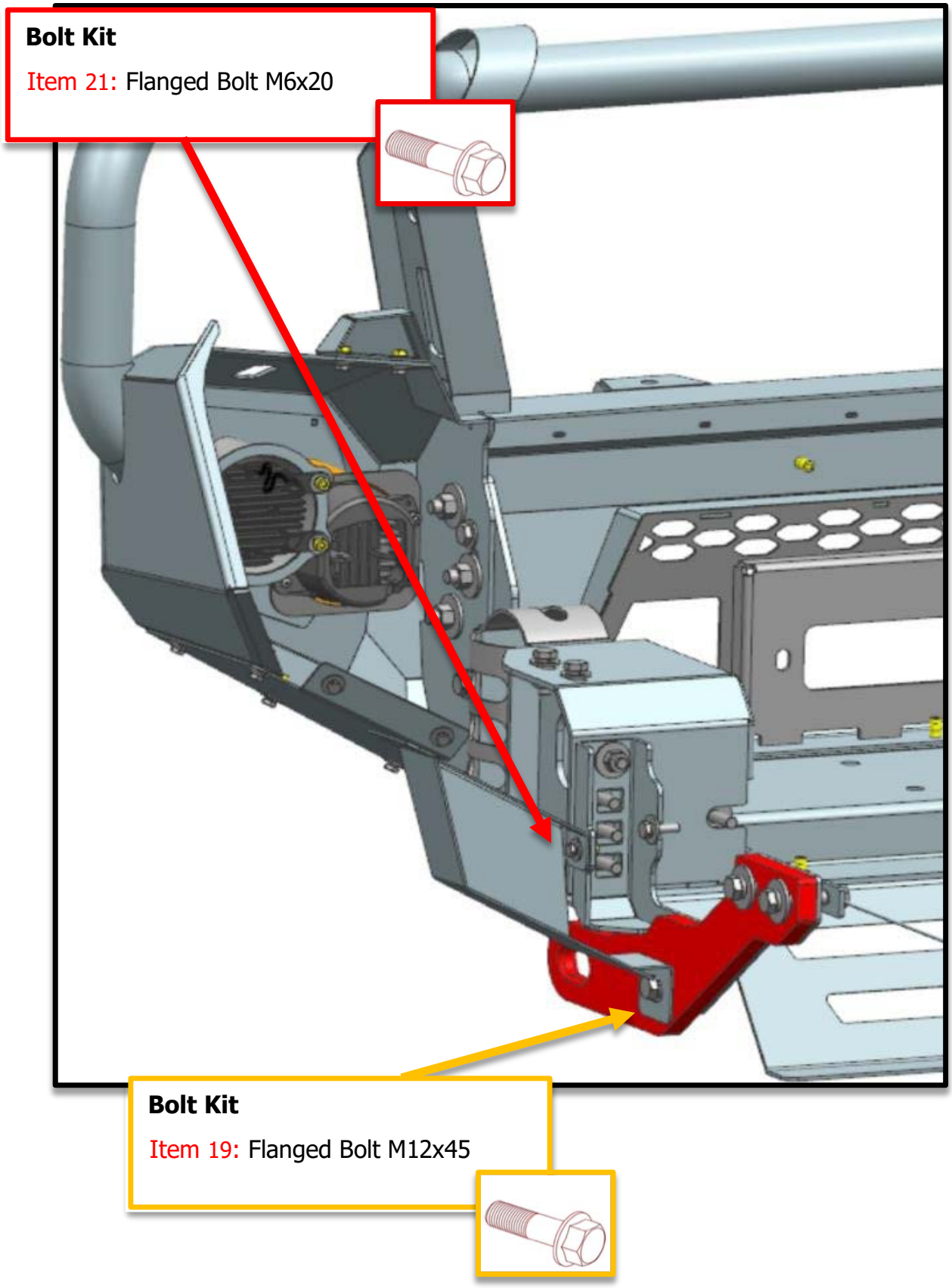

11 - SECURE BASH PLATES


11 - SECURE BASH PLATES
Now, if you see here,


11 - SECURE BASH PLATES
and tighten the whole thing.

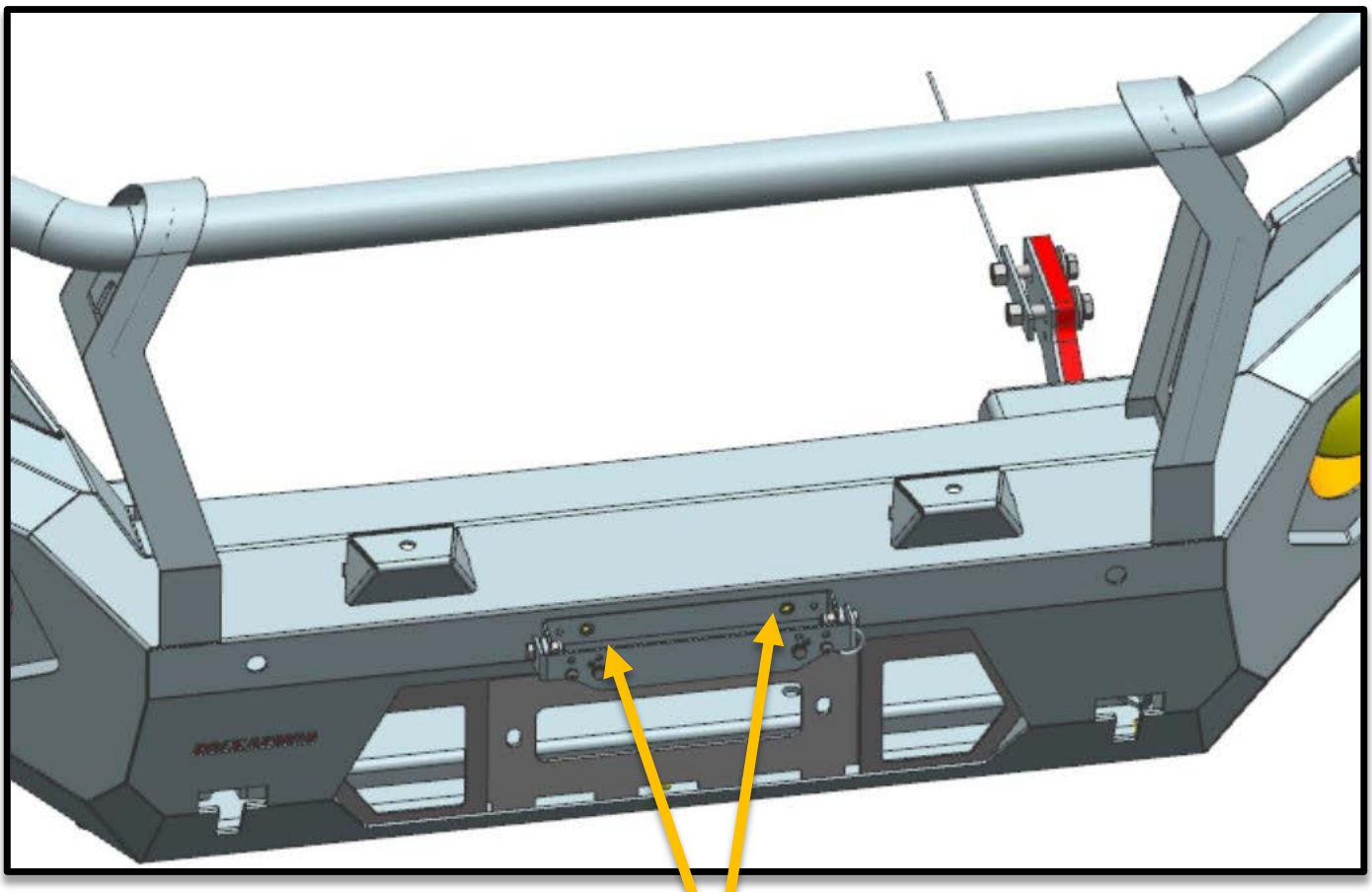

11 - SECURE BASH PLATES


11 - SECURE BASH PLATES


Bolt Kit
Item 21: Flanged Bolt M6x20
Bolt Kit
Item 19: Flanged Bolt M12x45

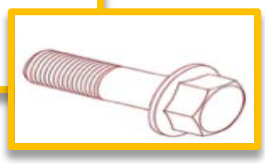
Brackets Needed for this section: 4

Item 4: License Plate Holder



Bolt Kit

Item 19: Flanged Bolt M12x45



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, using the appropriate tools and technical knowledge to ensure safety, performance, and correct fitment.
Any modifications to the product or deviations from the instructed fitting procedures will void all warranties and transfer full responsibility to the installer and/or vehicle owner.
Additionally, it is highly advisable for the vehicle to undergo a suspension upgrade when installing a bullbar — particularly if additional accessories such as a winch or driving lights are fitted. Rockarmor will not be held responsible for any damage to the bullbar or vehicle resulting from inadequate suspension or failure to compensate for increased front-end weight.

Ongoing Fitment Checks & Maintenance:

We strongly recommend that all installed products — including bullbars, side steps, underbody protection, and rear bars — be inspected regularly for secure attachment. This is especially critical after driving on corrugated or rough terrain, or prior to undertaking extended trips.

Bolts and nuts may loosen over time due to ongoing vibrations, flex between the chassis and body, and general off-road stress. To help prevent this:
- Inspect all mounting bolts regularly, especially after rough travel conditions.
- Retorque bolts as needed according to the product-specific requirements.
- Consider using professional-grade thread-locking compound (e.g. Loctite™) on fasteners, in line with advice from a qualified technician.
- Seek professional mechanical advice if you are unsure about correct torque settings or ongoing maintenance practices.

By proceeding with the installation, the installer and/or vehicle owner acknowledges and accepts all risks and responsibilities associated with both the fitting process and long-term maintenance of the product.

Suspension Upgrade Recommendation for Bullbar Installation

Installing a GT Bullbar? It's strongly recommended to upgrade your suspension system to handle the added weight — especially if you're also fitting a winch or other accessories. Failing to do so can cause front-end sag, reduced handling, and long-term damage to panels, lights, and chassis/body mounting points due to excessive flex.

Why It Matters:

The chassis and body of your vehicle move independently. A bullbar is typically mounted directly to the chassis rails. If the suspension isn't properly upgraded to compensate for the additional weight of the bullbar and accessories (like winches), it can result in:

- Uneven body/chassis movement
- Damage to headlights, grilles, and body panels
- Increased wear on suspension and steering components

This movement can be amplified on corrugated roads or off-road terrain, especially in Australian conditions.

Front Suspension Upgrades:

- Assess the Weight: Know the combined weight of the bullbar and front-mounted accessories. A winch can add 20–30 kg extra on top of a standard bullbar.
- Choose the Right Springs: Use heavy-duty coils rated for the correct weight (+80 kg, +100 kg, etc.). Mismatched springs can cause poor handling or over compression.
- Match the Shocks: Fit shock absorbers that complement the spring rate and expected load. This ensures balanced rebound and improved ride control.

Rear Suspension Considerations:

- Evaluate Rear Loads: If you're fitting rear bars, drawers, spare carriers, or auxiliary tanks, consider the rear suspension load impact.
- Upgrade if Needed: Use heavy-duty springs or add-on solutions like airbag helpers to prevent rear-end sag and uneven vehicle stance.

General Best Practices:

- Total Load Calculation: Always calculate the full combined accessory weight (front and rear) before choosing suspension.
- Different Setups = Different Ratings: A bullbar-only setup requires different front springs than a bullbar + winch combination.
- Get Expert Input: Always consult a suspension or 4WD specialist for a tailored solution based on your setup and usage.
- Inspect Regularly: Post-installation, check the bullbar mounts, suspension components, and wheel alignment periodically.

Final Recommendations:

Aligning your suspension setup with your bullbar and accessory load ensures:
- A safer, smoother ride
- Reduced risk of long-term damage
- Better vehicle control and off-road performance