Toyota Landcruiser Prado

Prado 250 Series MY2025 Onwards

Underbody Protection

IMPORTANT! – READ BEFORE INSTALLATION

- This product must be installed exactly as per these instructions using only hardware supplied.
- Take a few moments to read instructions thoroughly before beginning work.
- In the event of damage to any component please contact OFFROAD ANIMAL to arrange repair/replacement of components.
- Do not use this product for any vehicle make or model other than that specified on these instructions.
- This product and its fixings must not be modified in any way unless stated in these fitting instructions.
- The installation of this product is recommended for trained personnel.
- These instructions are correct at time of publication. OFFROAD ANIMAL cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer. If you find something has changed, please contact us to let us know!
- During installation it is the duty of the installer to check correct operation/clearances of all components.
- If Instructions are to be printed for reference in the workshop, it is recommended that they are printed in colour, for best legibility.

GENERAL CARE AND MAINTENANCE

Use caution when cleaning with pressure washers, as they may compromise the product coating's integrity. Exercise care to avoid surface damage.

Only wash the product with a PH neutral car wash to prevent paint damage and discolouration.

Do not use acidic or alkaline based cleaning products.

Plastic parts may be maintained with silicone spray.

It is important to perform regular checks (pre/during/post trip or on an annual basis) on the installed product. More frequent checks may be required in extreme use cases. Checks include:

- Visual inspection for damage (eg. cracks, chips, dents etc.)
- Electrical wiring is not rubbing anything or worn out
- Bolts are torqued to correct specification (see torque guide below)

For touching up small stone chips, Offroad Animal recommends the following paint products:

- Dupli-Color Trim & Bumper Paint Black (TB101)
- VHT Hood, Bumper & Trim Paint Black (SP27)

BOLT TORQUE SETTINGS

Use the following bolt torques on all general fasteners, unless otherwise specified.

GENERAL FASTENERS	
Size	**Torque Nm**
M5	5 Nm
M6	9 Nm
M8	22 Nm
M10	44 Nm
M12	77 Nm

Use the following bolt torques on all structural front bar mount and tow point fasteners, and rear towbar fasteners, unless otherwise specified.

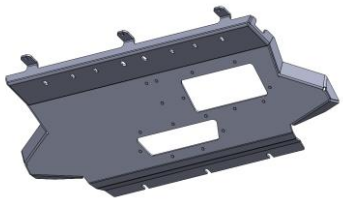
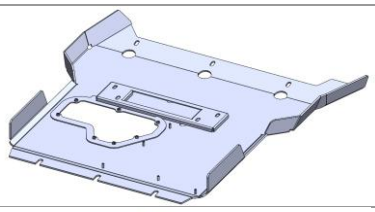
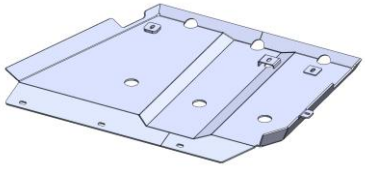
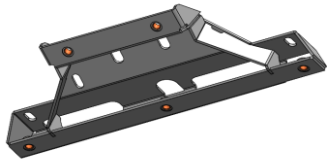
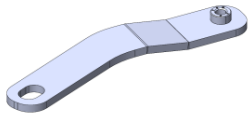
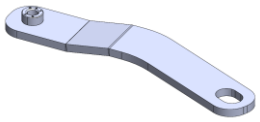
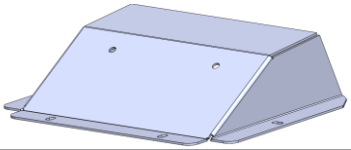
FRONT BAR MOUNTS AND TOW POINTS + REAR TOWBAR	
Size	**Torque Nm**
M10	57 Nm
M12	100 Nm
M14	164 Nm
M16	248 Nm

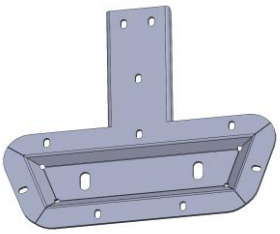
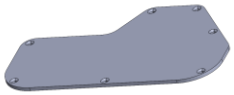
Always use a torque wrench to set correct torque settings. Ensure torque wrench is set to Nm unit of measurement. Otherwise perform conversion to lb-ft.

PARTS LISTING

IMPORTANT: Check all parts are present before beginning work! Contact OFFROAD ANIMAL if something is missing.

Main Parts – In the Box

Qty	Part Number	Description	Image
1	BP-TPR-250-25-ASM1	Prado 250 Underbody Protection- Radiator Guard Assembly	
1	BP-TPR-250-25-ASM2	Prado 250 Underbody Protection- Sump Guard Assy	
1	BP-TPR-250-25-ASM3	Prado 250 Underbody Protection - Transmission Guard Assy	
1	BP-TPR-250-25-ASM5	Prado 250 Underbody Protection- Mid Support Bracket	
1	B-1544L	Prado 250 Underbody Protection- Radiator Crossmember Brace	
1	B-1544R	Prado 250 Underbody Protection- Radiator Crossmember Brace	
1	B-1557	250 Prado UBP Diff Vent Panel	

1	B-1559	250 Prado UBP Bolt on Mounting Pocket Front Plate	
1	B-1560	Prado 250 UBP Diff Vent Grille Panel	
1	P-0452	Prado 250 Underbody Protection- Service Access Plate	
1	P-0483	Prado 250 Front Bash Plate Vent Spacer Plate	

Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description
1	NP-COM-M8-200-ASM0	M8 Nut Plate 200mm
8	M8 X 25 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X25X1.25, ISO4042 ZnNi BLACK PASSIVATED FINISH
5	M8 X 25 HEX	Bolt Hex, M8X25x1.25, GR8.8 ZP
1	M8 X 35 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X35X1.25 ISO4042 ZnNi BLACK PASSIVATED FINISH
9	M8 HD FLAT WASHER - BZP	M8 FLAT WASHER - High Tensile 19x8x2mm, ISO4042 ZnNi BLACK PASSIVATED FINISH
8	M10 x 25 BLACK ZINC	Bolt Hex, M10X25x[1.5], GR8.8 ZP, ISO4042 ZnNi BLACK PASSIVATED FINISH
8	M10 FW LHD BLACK ZINC	WASHER, FLAT M10X28.5X2.5, ISO4042 ZnNi BLACK PASSIVATED FINISH
3	M10 FLANGE NUT	Flange Nut, M10x1.5 G8.8 ZP
5	M8 HD FLAT WASHER	M8 FLAT WASHER - High Tensile 19x8x1.9mm
7	M6 X 16 CSK	SCREW, COUNTERSUNK CAP, M6X16X1 ZP
22	M6 NYLOC	NYLOC SELF LOCKING NUT, ST STL ISO
22	M6 WASHER LHD	Flat Washer - Heavy Duty, M6x14MM ODx1.6mm T, Zinc Plate
2	M6 FLAT WASHER BLACK ZINC	M6 Flat Washer, 12x6.1x1, ISO4042 ZnNi BLACK PASSIVATED FINISH
2	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP
2	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9, ISO4042 ZnNi BLACK PASSIVATED FINISH

TOOLS REQUIRED

The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Equipment
10-19mm Metric Spanner Set 10-19mm Metric Socket Set Extension Bars to suit sockets Torque Wrench 4-6mm Allen/Hex Key Set Trim Tools	Air / Electric Impact Wrench - Optional	Hoist / Vehicle Ramps

WORKSHOP SAFETY

It is the responsibility of the installer to always complete works in a safe manner. Make sure the following safety equipment is available and precautions are observed whilst fitting this product.

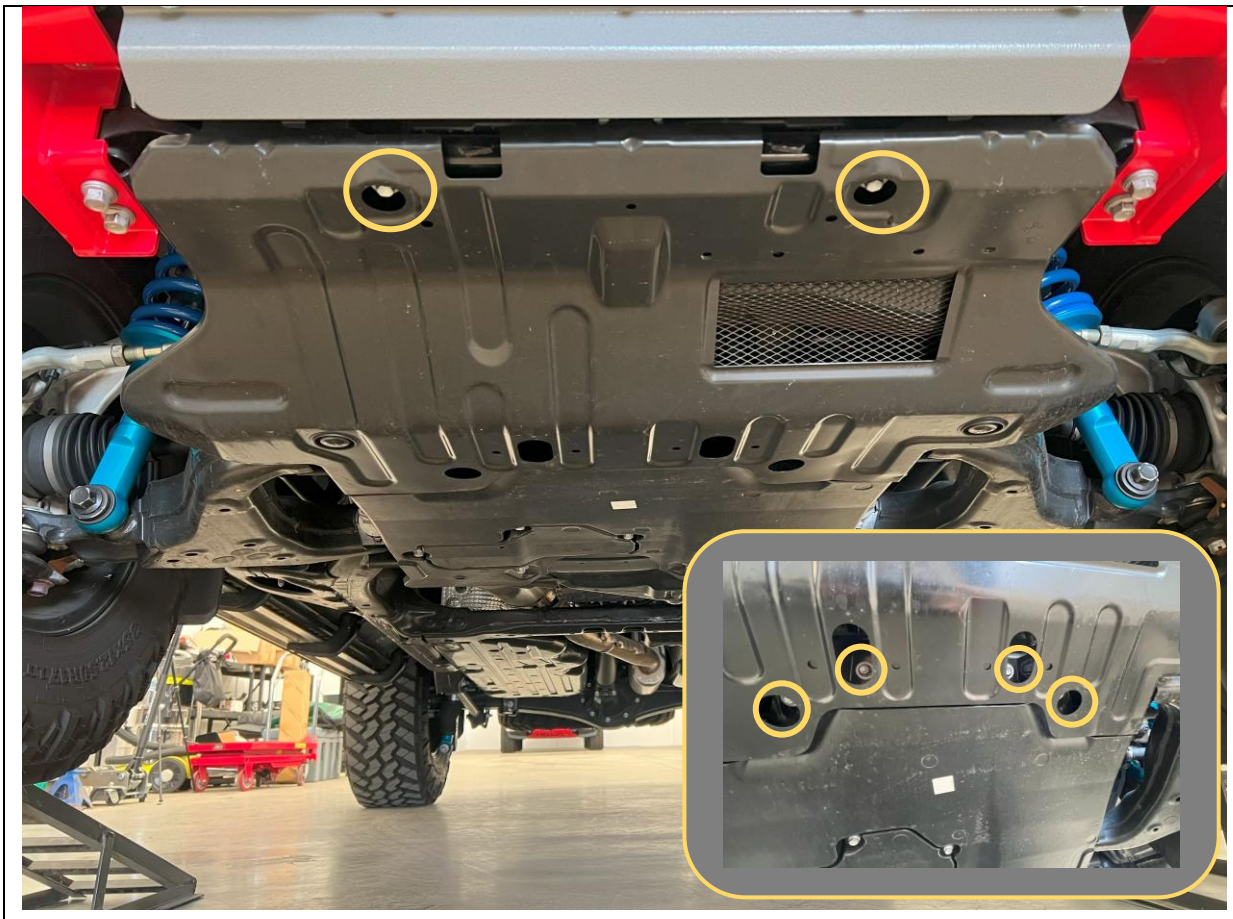
Hearing Protection	Always wear ear protection when using power tools.
Eye Protection	Ensure eye protection is always worn when cutting or drilling.
Manual Handling	Do not attempt to lift bar assemblies or rock sliders on your own. Always use two people to lift or use mechanical Lifting aid such as hydraulic lifting trolley.
Vehicle Support	Always ensure vehicle is properly supported when working on it. Do not attempt to fit products whilst suspension work is being carried out. Do not work under a vehicle supported only by a jack.

1. Prepare the vehicle for fitment. It is highly recommended to lift the vehicle with ramps or a hoist, particularly if the vehicle has standard suspension / tyre sizes.

TOOLS REQUIRED

Vehicle Ramps
Or
Vehicle Hoist

FASTENERS



2. Remove factory forward splash shield panel, by removing the 6x 12mm head Flanged head hex bolts securing it to the chassis.

3. Retain factory Bolts for re-use, discard the lower splash shield.

TOOLS REQUIRED

12mm Socket / Spanner

FASTENERS

Retain for reuse

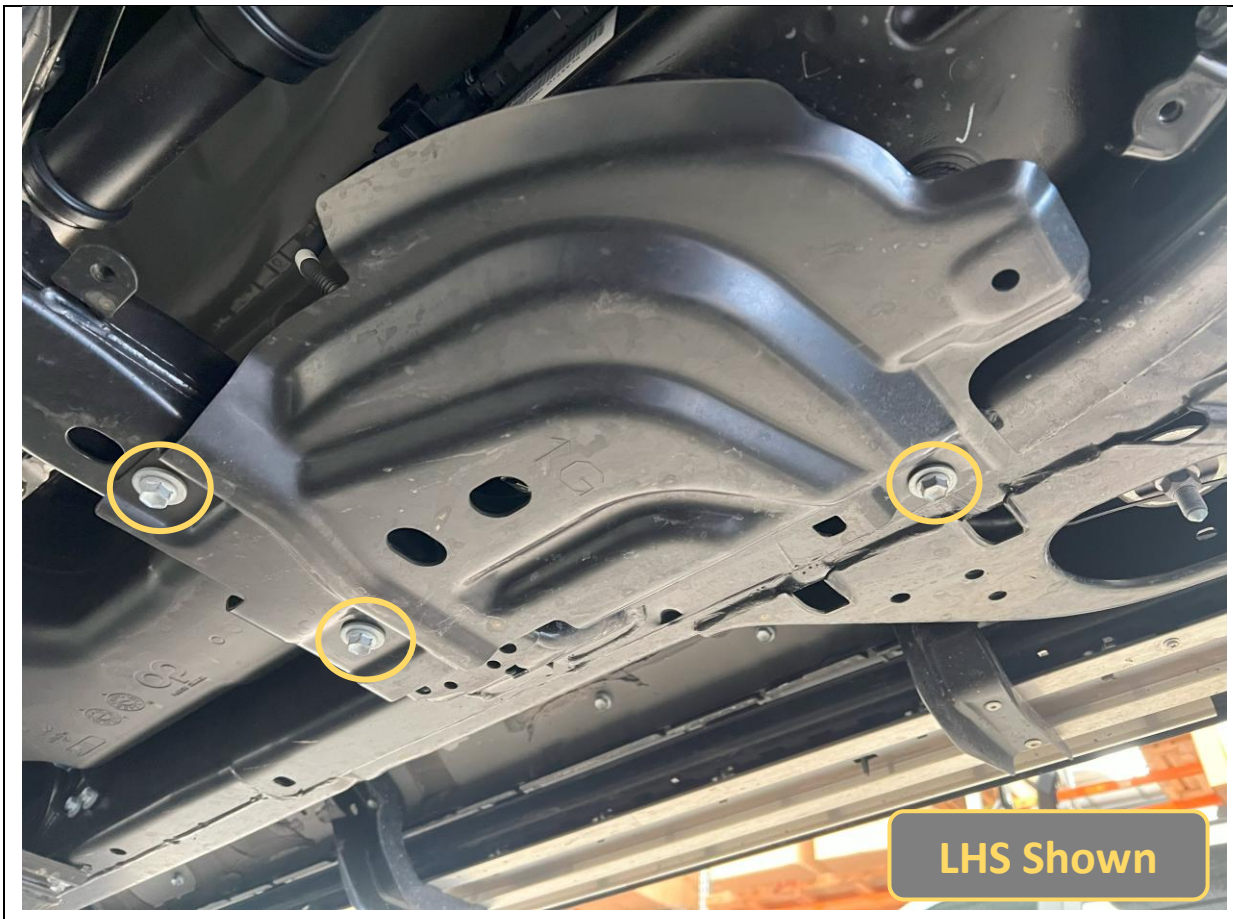
4. Remove the remaining 2x 12mm flange head bolts securing the rear of the plastic center splash shield to the chassis.

5. Remove the center splash shield.

TOOLS REQUIRED

FASTENERS

2x Factory Flange Bolts



6. On the LHS of vehicle, remove the 3x 12mm Flange Head bolts securing the ad-blue tank guard to the chassis.

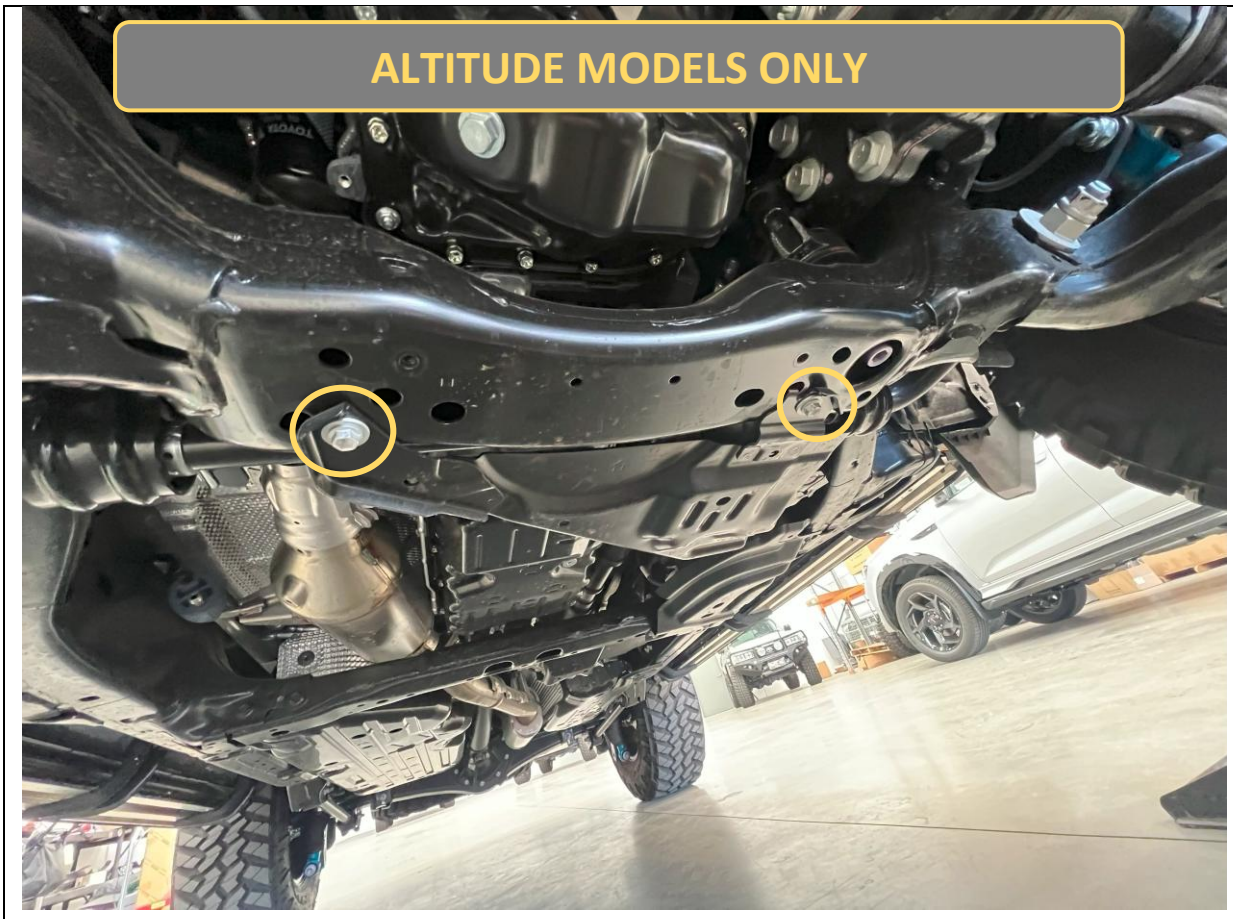
7. Remove and discard the ad-blue Tank guard.

TOOLS REQUIRED

12mm Socket / Spanner

FASTENERS

Reuse Factory hardware



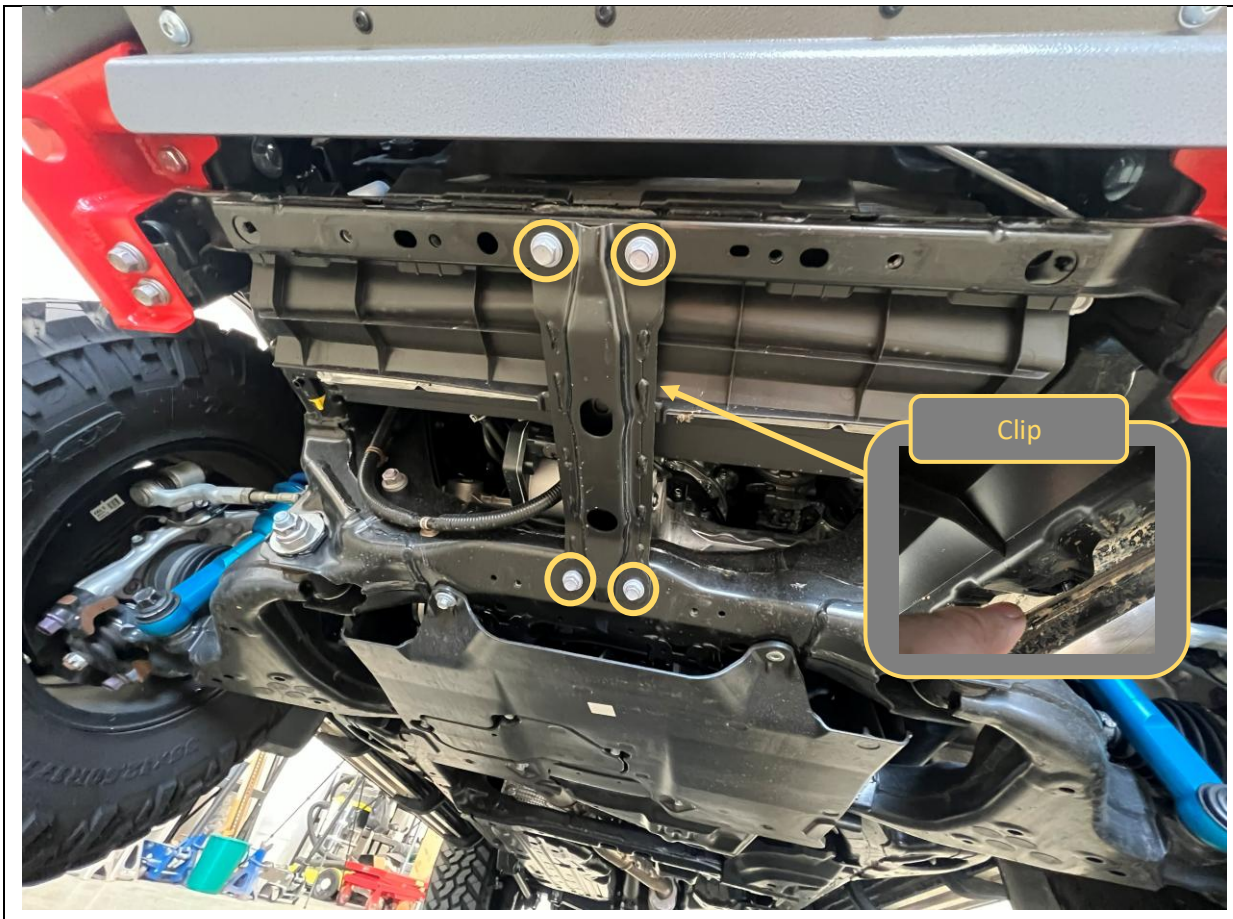
8. On Altitude models, remove the sway bar disconnect actuator guard, by removing the 2x 12mm head factory flange bolts that secure it to the chassis.

9. Discard the sway bar disconnect actuator guard

TOOLS REQUIRED

12mm Socket / Spanner

FASTENERS



10. Remove the Lower radiator guard, by removing the 4x 14mm head factory flange bolts that secure it to the chassis.

11. Release the clip securing the guard to the lower radiator shroud.

12. Retain the fasteners for re-use during bash plate fitment.

TOOLS REQUIRED

14mm Socket / Spanner
Trim Tool

FASTENERS

Retain

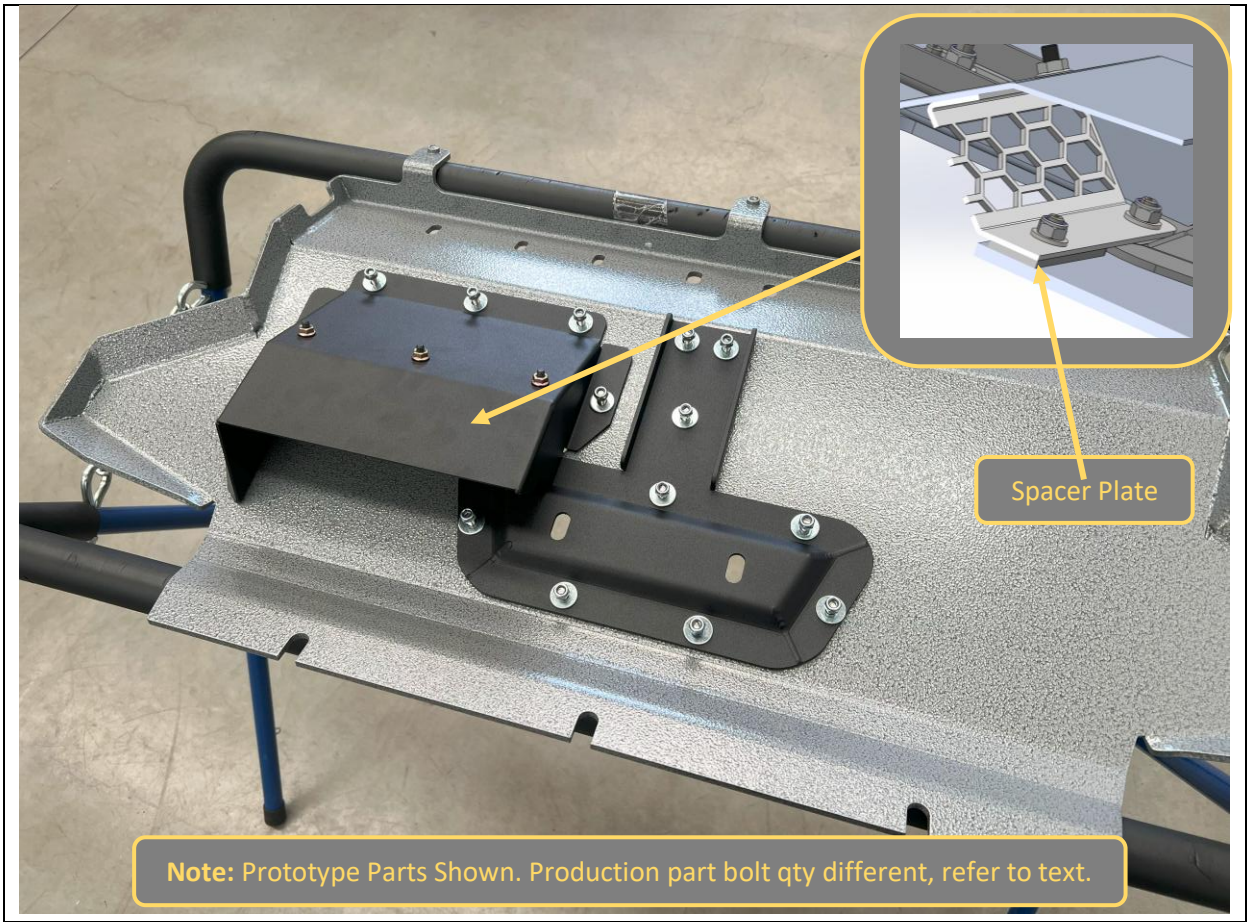
13. Fit the grille panel to the vent panel with 2x M6x16 Black Button head screws, Black flat washer and M6 Flange Nuts.

14. Leave bolts finger tight at this stage

TOOLS REQUIRED

FASTENERS

2x M6x16 Black Button Head
2x M6 Black Washer
2x M6 Flange Nut



15. Fit the Bolt on Mounting Pocket and Diff Vent Panel over the studs on the Radiator Guard Assembly.

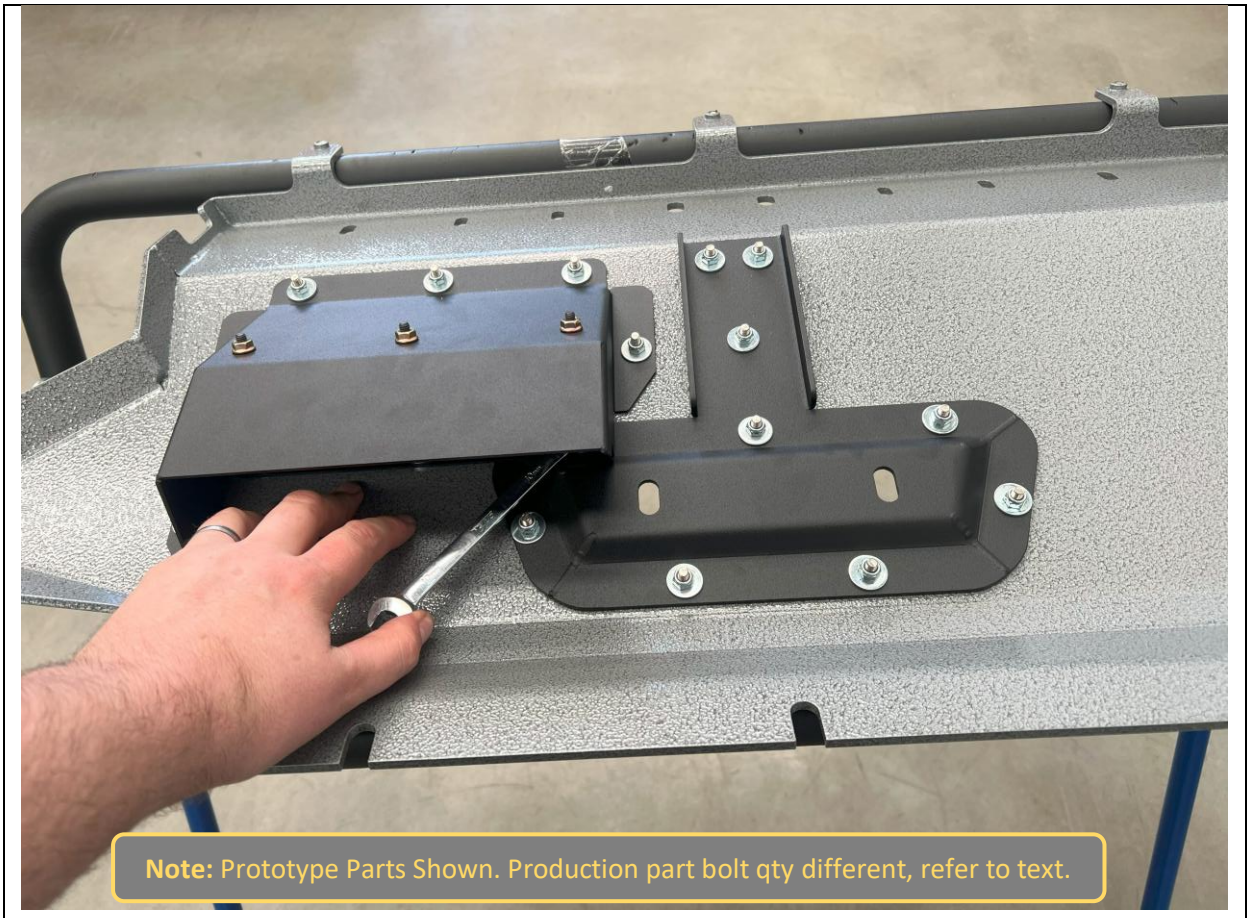
16. Ensure the Vent Spacer Plate is fitted between the Radiator Guard Assembly and the Diff Vent Panel.

17. Secure panels with M6 HD flat washers and M6 Nyloc Nuts

TOOLS REQUIRED

FASTENERS

16x M6 HD Washer
16x M6 Nyloc Nut

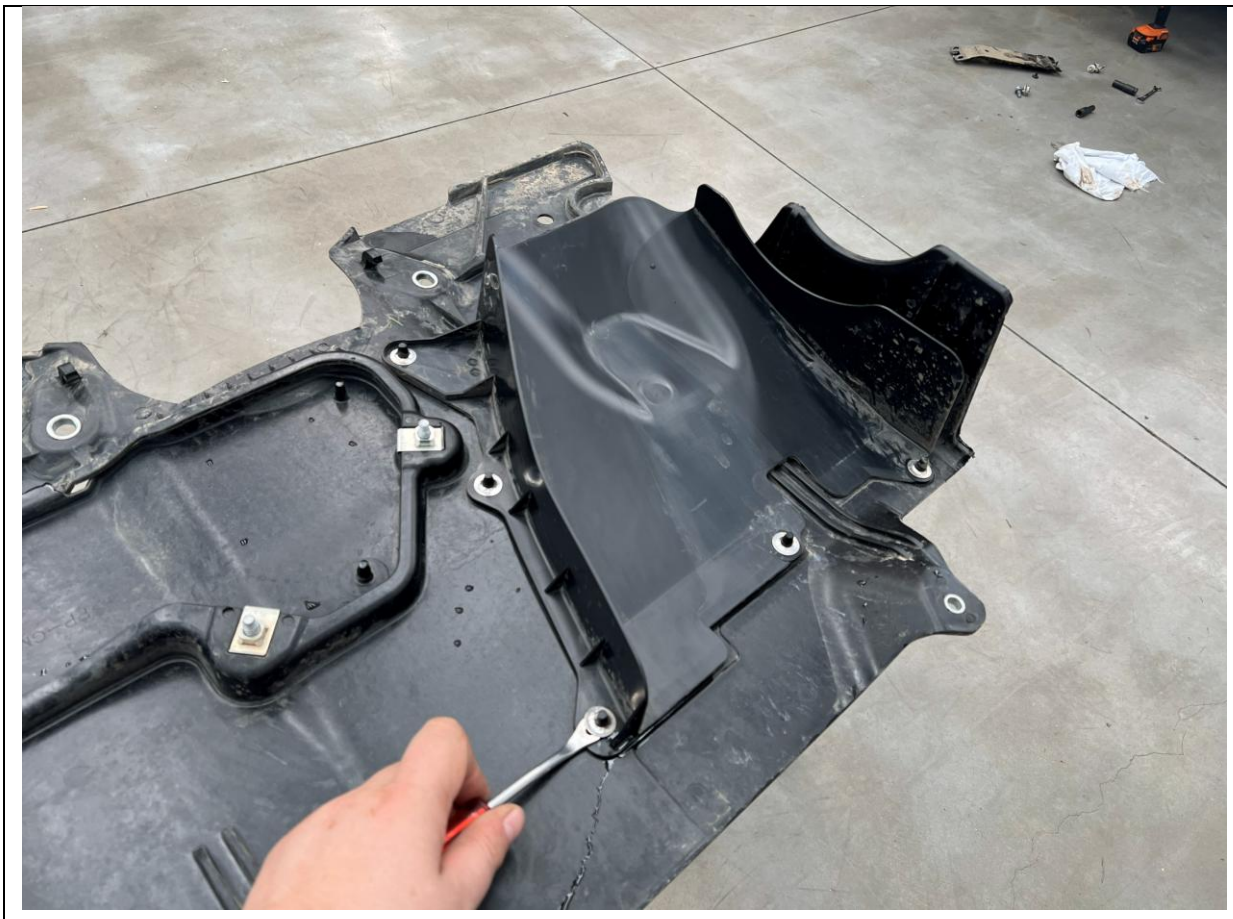


18. Tighten all Fasteners using 10mm spanner/ socket and 4mm Hex Key. A spanner will need to be used for the bolts on the inside edge of the air vent.

TOOLS REQUIRED

10mm Socket / Spanner
4mm Hex Key

FASTENERS



19. Using a trim tool, pry off the 6x circular spring retaining clips securing the front differential air guide to the plastic splash guard.

20. Remove the front differential air guide from the splash guard.

TOOLS REQUIRED

Trim Tool

FASTENERS

21. Fit the front differential air guide to the studs on the center bash plate assembly, using 6x M6 Flat washers and M6 Nyloc nuts.

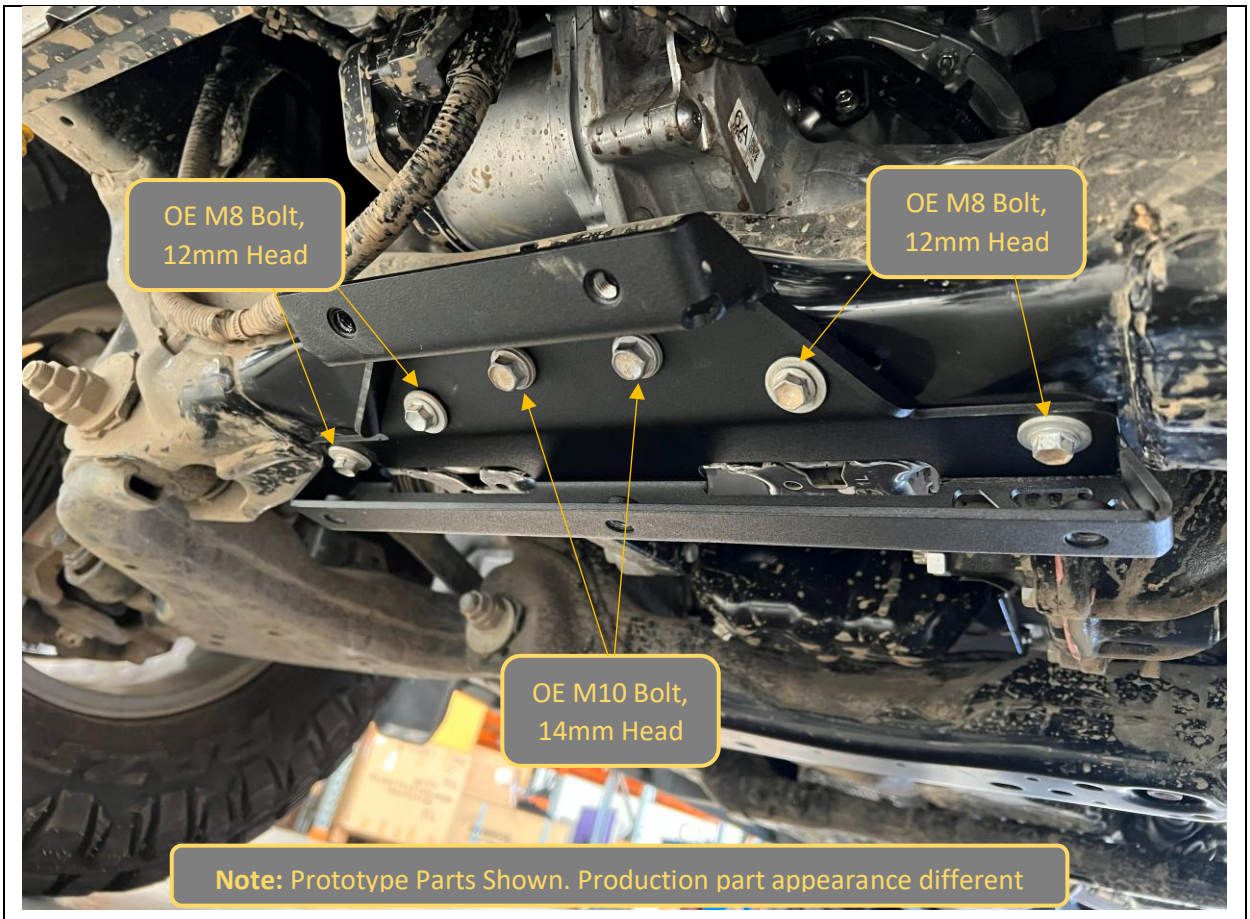
22. Tighten with 10mm socket.

TOOLS REQUIRED

10mm Socket / Spanner

FASTENERS

6x M6 Flat washers
6x M6 Nyloc nuts.



23. Fit the Mid Support Bracket to the chassis, using OE bolts removed earlier.

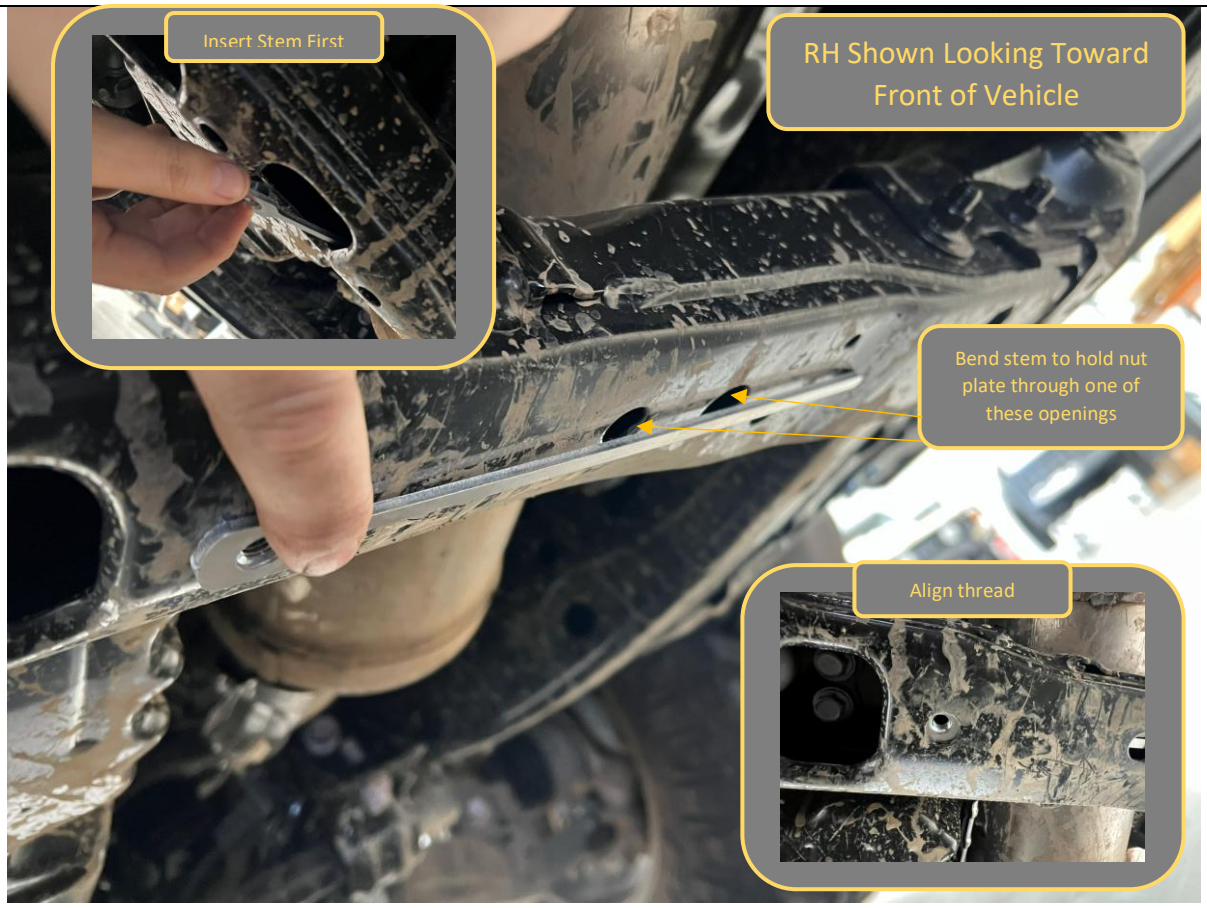
24. Tighten with 12 & 14mm socket / spanner. A spanner will be needed for the 2x outer 12mm bolts.

TOOLS REQUIRED

12 + 14mm Socket / Spanner

FASTENERS

Re-Use OE



25. Prepare for fitment of the rear plate by pre-positioning the lollipop nut plate into the transmission crossmember.

26. Identify the correct opening the nut plate will sit in, adjacent to the large opening in the transmission crossmember to the RH side of center, as shown in main image.

    Pre-bend the stem of the nut plate so that it can be held through one of the circular openings toward the outside of the crossmember.

27. Insert the nut plate, stem end first through the large opening in the crossmember, threading the bent stem through the outer hole, as per inset image.

28. Align the nut plate thread with the hole, nut plate should stay in position with gravity.

TOOLS REQUIRED

FASTENERS
M8 Lollipop Nut Plate

29. Fit the rear bash plate to the vehicle using the fasteners shown in the image.

30. It is much easier to do this with assistance to hold the bash plate in position whilst the fasteners are started.

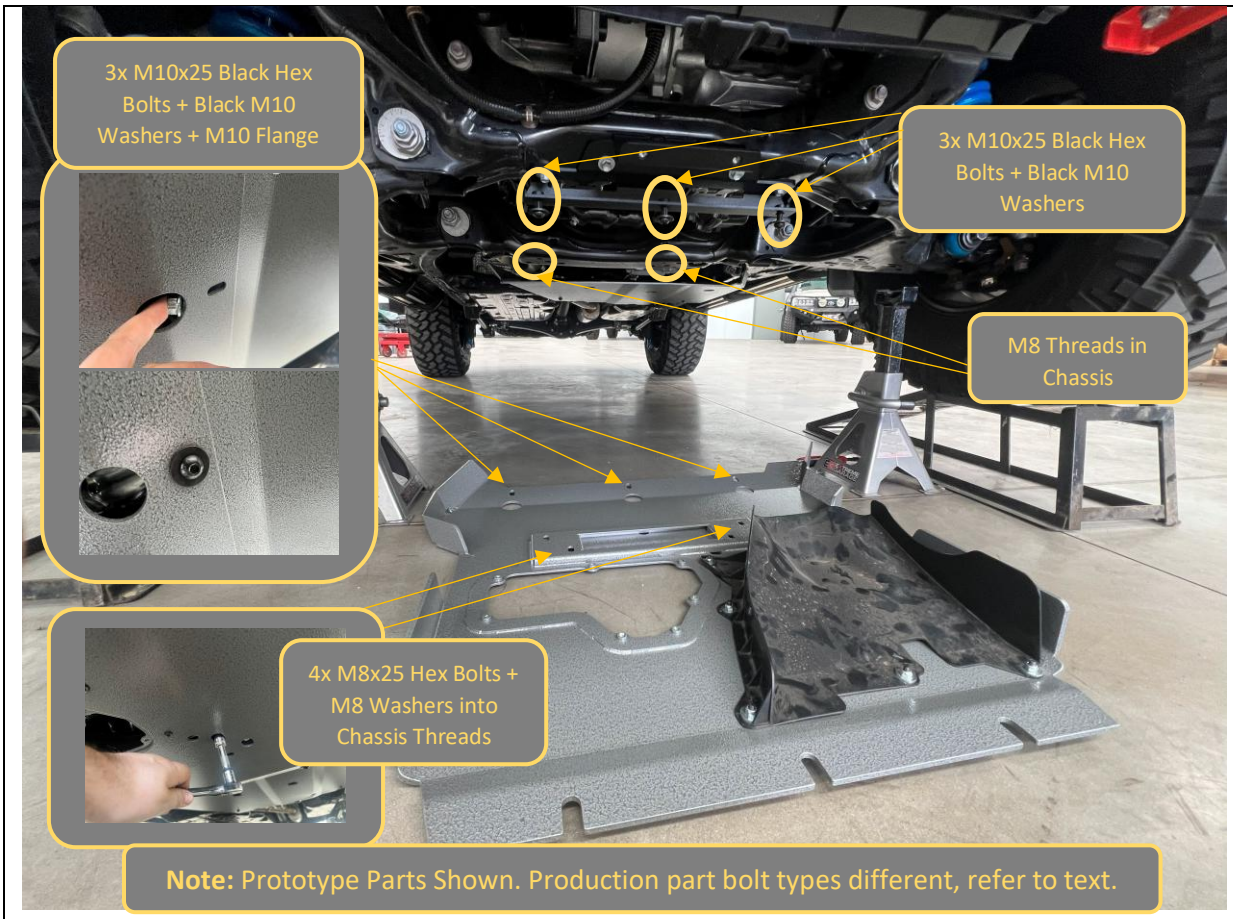
31. Leave all bolts finger tight at this stage.

TOOLS REQUIRED

Friend to help Lift / hold bash plate.
13mm Socket + extension Bar

FASTENERS

2x M8x25 Black Button Head
1x M8x35 Black Button Head
1x M8x25 Hex Head
3x M8 Black Washers
1x M8 Zinc Washer
M8 Lollipop nut plate (pre-positioned)



32. Before fitting the center bash plate assembly, pre fit 3x M10x25 Black Bolts + M10 Black Flat washers to the threads in the Mid Support Bracket. Just start the bolts, such that there is plenty of thread exposed.

33. Fit the center bash plate on the vehicle. Lift the front edge and insert the open slots onto the pre-positioned bolts. Then lift the rear edge and secure to the rear bash plate using 3x M10x25 Black Bolts + M10 Black Flat washers and M10 Flange Nuts. Nuts are positioned through the access holes in the bash plate as shown in the inset image.

34. Secure the center of bash plate to chassis using 4xM8x25 Hex bolts + M8 Flat washers into captive threads on chassis. A socket will be needed due to the recessed placement of the bolts.

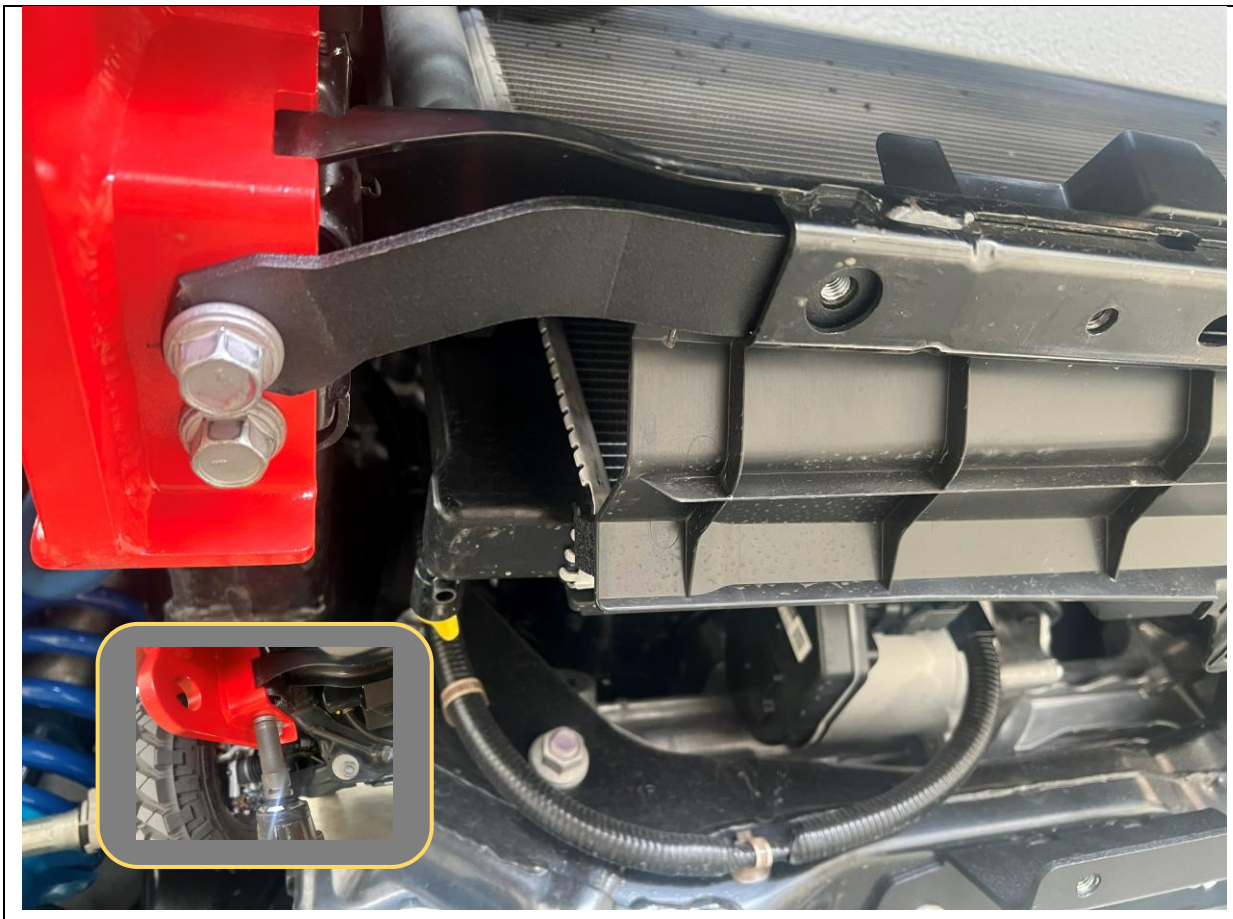
35. Leave all bolts finger tight at this stage.

TOOLS REQUIRED

13mm Socket

FASTENERS

6x M10x25 Black Hex Bolts
6x Black M10 Washers
3x M10 Flange Nuts
4x M8x25 Hex Bolts
4x M8 Washers



36. Remove the front 17mm bolt securing the tow point to the vehicle chassis.

37. Fit the Radiator Crossmember Brace, inserting into the radiator crossmember such that the thread is centred in the opening as shown.

38. Replace bolt and re-torque. Complete for both sides of the vehicle.

TOOLS REQUIRED

17mm Socket / Spanner

FASTENERS

17mm OE Bolt

39. Prepare for fitment of the front bash plate assembly.

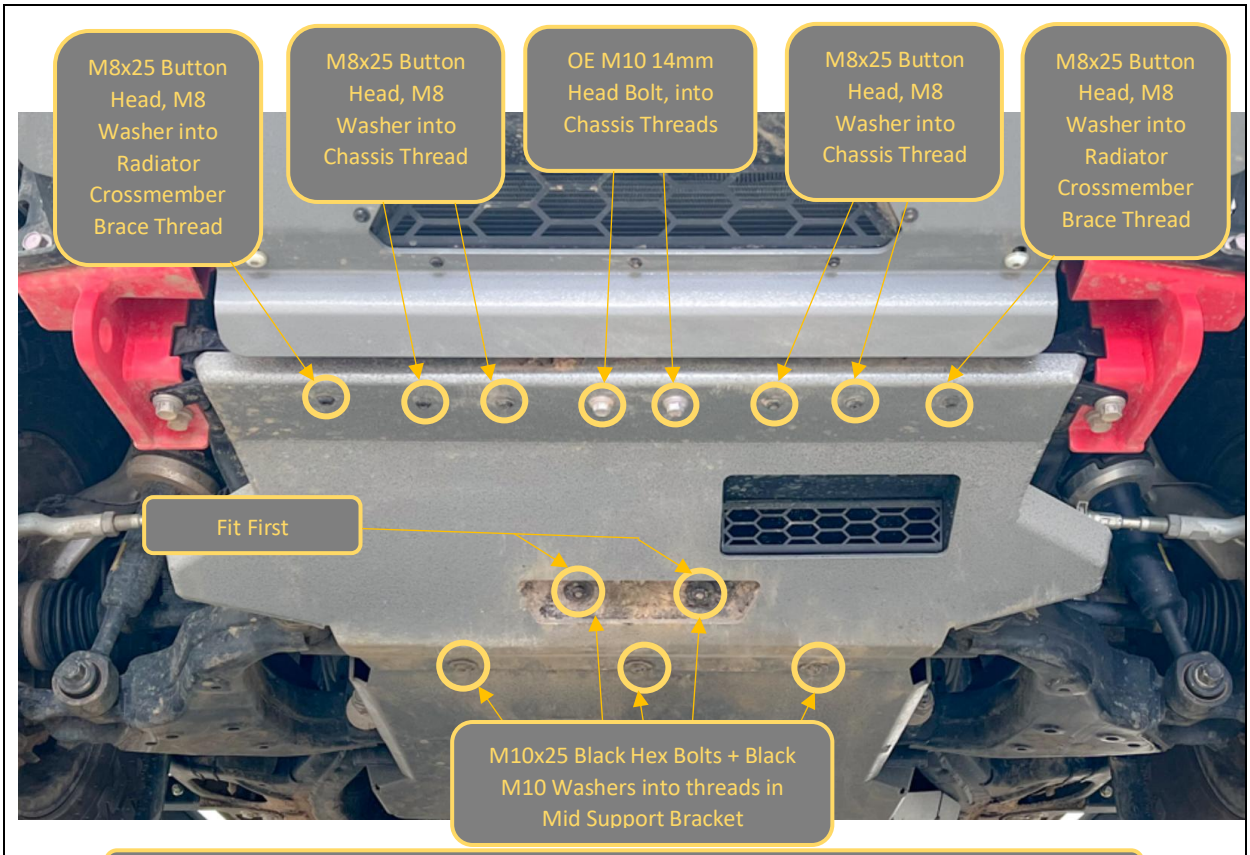
40. Remove the 3x Loosely fitted M10 bolts from the Mid Support Bracket.

41. Gather required fasteners (see next page)

42. Lift front edge of bash plate and position behind ORA Bullbar bash plate (or OE-bumper).

TOOLS REQUIRED

FASTENERS



Note: Prototype Parts Shown. Production part bolt types different, refer to text.

43. Fit the front bash plate to the vehicle using the fasteners shown in the image.

44. It is recommended to fit the 2x lower front diagonal M10 bolts first as these will best help hold the bash plate in position whilst fitting the other fasteners.

45. Once all fasteners are in, tighten ALL bolts securing ALL 3 bash plate assemblies to the vehicle. Work methodically from front to rear to ensure all fasteners are tightened.

TOOLS REQUIRED

5mm Hex (Allen) Key
13mm Socket
14mm Socket
16/17mm Socket

FASTENERS

5x M10x25 Black Hex Bolts
5x Black M10 Washers
6x M8x25 Black Button Head
6x M8 Black Washers
2x OE M10 14mm Head Flange Bolt (re-use)

46. Fit the oil drain access cover plate using 7x M6x16 Countersunk screws into the captive nuts in the center bash plate assembly. Get all screws started before tightening.

47. Double check all bolts are tight. You are now done!

TOOLS REQUIRED

4mm Hex Key

FASTENERS

7x M6x16 Countersunk screws

Congratulations!

Head for the tracks and enjoy your newly protected Rig!