

TOYOTA HIACE
BULL BAR
300 SERIES 2019 ONWARD





IMPORTANT – PLEASE READ FIRST

- This product requires a moderate level of fitting ability. Inexperienced installers may find this task difficult.
- The product must be installed in accordance with these instructions and the hardware supplied. If you believe a part is missing please contact our sales team
- If you're unsure about a step please contact our technical support team by completing a form via the QR code or via email.
- The installation may require specialized tools and or techniques, please review the specified tools and ensure you have access to general workshop equipment and supplies.
- This product shall not be used with any other vehicle, make or model apart from specified in these instructions.
- The installer should ensure correct fitment on the vehicle and adequate clearances.
- To ensure the longevity of the product the care and maintenance instructions must be followed.
- We recommend you lubricate any joints or seams with lanolin or a similar product
- Torque specifications for this product = M5 – 6Nm, M6 – 9Nm, M12 – 77Nm

CARE AND MAINTENANCE

- Ensure all components are properly adjusted and aligned during installation.
- **Torque all bolts and recheck after the first 1,000 km, then every 10,000 km.**
- Avoid exposure to salt water or salty environments.
- Do not clean with harsh chemicals.
- Do not overload the product or use it outside its intended purpose.



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Page 2 of 25

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1. PREPARING FOR INSTALL

1.1 REQUIRED TOOLS AND SAFETY

Ensure tools and equipment are ready

Tools	• Allen key set • Spanner set • Socket set • 12V wiring tools (soldering iron, solder, heat shrink , wire stripper, terminal connectors x 2 pairs, electrical tape, 2m 3mm automotive electrical twin core cable) • Drill and drill bits • Automotive trim tool • Steel ruler • Marker pen or pencil • Masking tape • Stanley knife • Multitool • Chisel and hammer • File or sandpaper (Clean bumper cut edge)
Materials	• Double sided tape or adhesive • Masking tape • Protective paint • Loctite



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FB-HIACE Rev A 05/08/2026

Page 3 of 25

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SAFETY



Hearing protection



Protective eyewear



Manual Handling

When using power tools hearing protection should be used, when cutting or drilling ensure eye protection is used. Ensure sufficient help when lifting barwork. Every attempt has been made to ensure powder coated and raw finish components are free of burrs and sharp edges, however handling parts with care is recommended.



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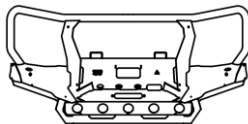
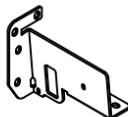
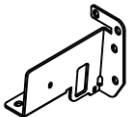
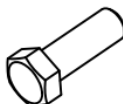
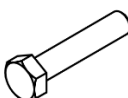
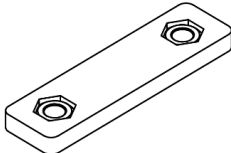
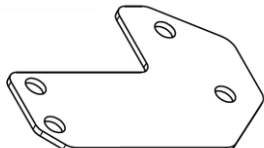
Page 4 of 25

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1.2 PARTS LIST

Check all parts are present before commencing installation

PARTS LIST				
APPLICATION	PART NUMBER	DESCRIPTION	QTY	IMAGE
BULL BAR AND MOUNTING PARTS	TCC HIACE BULL BAR	BULL BAR WITH INDICATOR LIGHTS FITTED	1	
	HIACE OUTER CHASSIS SUPPORT DS	POWDER COATED FOLDED BRACKET	1	
	HIACE OUTER CHASSIS SUPPORT PS	POWDER COATED FOLDED BRACKET	1	
HIACE BAR MOUNT KIT	M12 x 35 x 1.25 ZP	ZINC PLATED BOLT	4	
	M10 x 50 x 1.25 ZP	ZINC PLATED BOLT	12	
	NP M12 90P ASSY	STANDARD M12 90MM NUT PLATE	2	
	M12 27 X 13.3 X 4 WASHER	ZINC WASHER	8	
	M10 28 X 10.9 X 2.8 WASHER	ZINC WASHER	20	
	M10 X 1.25 NYLOC NUT	ZINC NYLOC NUT	8	
	OUTER SHIM PLATE HIACE	2MM STAINLESS STEEL PLATE	8	
	FRONT SHIM PLATE HIACE	5MM POWDER COATED PLATE	2	



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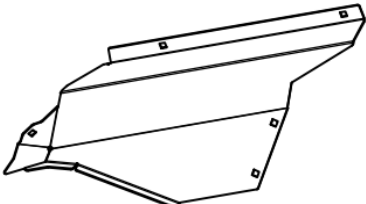
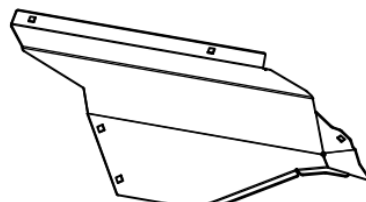
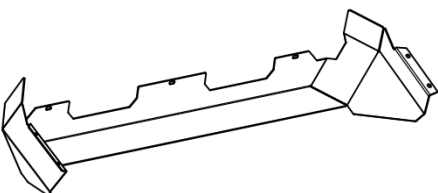
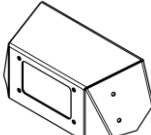
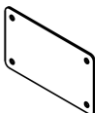
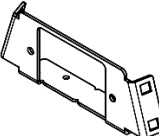
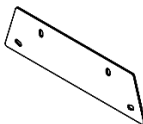
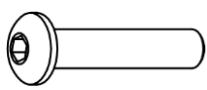
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Page 5 of 25

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UNDERTRAYS	HIACE UNDERTRAY PS	POWDER COATED FOLDED PANEL	1	
	HIACE UNDERTRAY DS	POWDER COATED FOLDED PANEL	1	
	HIACE RAD GUARD	POWDER COATED FOLDED PANEL	1	
HIACE RADAR RELOCATION ASSY	HIACE RADAR COVER	POWDER COATED FOLDED PART	1	
	RADAR COVER PLATE	2MM BLACK ACRYLIC	1	
	HIACE RADAR MOUNT	POWDER COATED FOLDED PART	1	
	HIACE RADAR COVER BACK	POWDER COATED FLAT PART	1	
HIACE UT FASTENER KIT (HIACE SPECIFIC ADDITIONAL UNDERTRAY	M5 x 25 BUTTON HEAD SS-BLK	BLACK COATED SS SCREW	5	
	M5 10.2 x 5.5 x 1.1 WASHER	ZINC PLATED WASHER	3	


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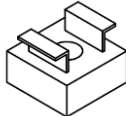
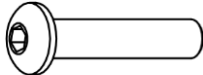
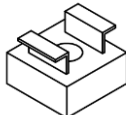
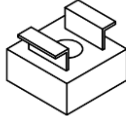
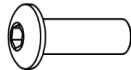
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Page 6 of 25

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COMPONENTS)	M5 NYLOC ZP	ZINC PLATED NYLOC NUT	3	
	M5 CAGE NUT	CAGE NUT	2	
FBUNI-001 (UNIVERSAL BULL BAR FASTENER KIT)	M5 x 25 BUTTON HEAD SS-BLK	BLACK COATED SS SCREW	8	
	M5 x 20 BUTTON HEAD ZP	ZINC PLATED SCREW	2	
	M5 10.2 x 5.5 x 1.1 WASHER	ZINC PLATED WASHER	4	
	M5 CAGE NUT	CAGE NUT	8	
	M5 NYLOC ZP	ZINC PLATED NYLOC NUT	2	
HIACE RADAR RELOCATION KIT	M5 10.2 x 5.5 x 1.1 WASHER	ZINC PLATED WASHER	20	
	M5 CAGE NUT	CAGE NUT	8	
	M5 NYLOC ZP	ZINC PLATED NYLOC NUT	10	
	M5 x 16 BUTTON HEAD SS	SS BUTTON HEAD	18	
Additional components	Pinch Weld	PVC sealing strip	1.5m	


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FB-HIACE Rev A 05/08/2026

Page 7 of 25

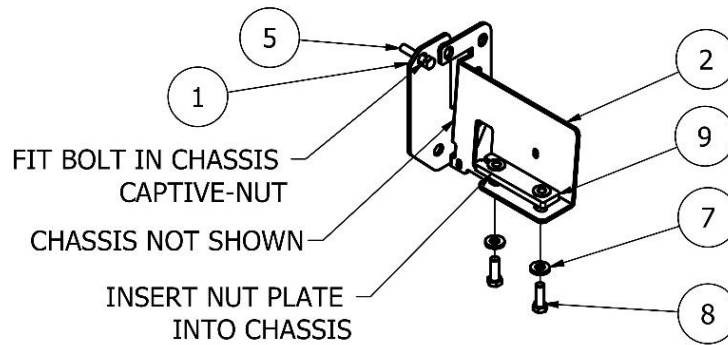
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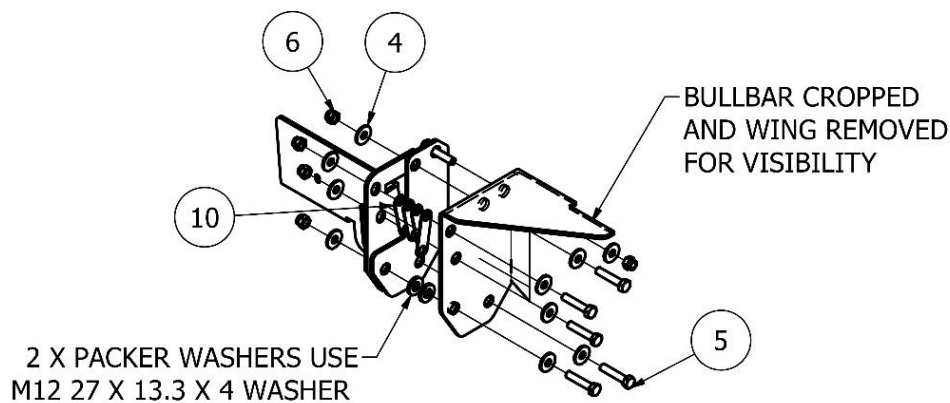
1.3 MOUNTING BRACKET ARRANGEMENT

If required review the image below for the arrangement of the mounting brackets and the fasteners used for mounting
(Drivers side shown)

DETAIL A- FIT CHASSIS SUPPORT BRACKETS



DETAIL B - FIT BULL BAR



HIACE MOUNTING ARRANGEMENT - PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	FRONT SHIM PLATE HIACE	5MM MS
2	1	HIACE OUTER CHASSIS SUPPORT DS	5MM MS250
3	1	HIACE OUTER CHASSIS SUPPORT PS	5MM MS250
4	20	M10 28 X 10.9 X 2.8 WASHER	ZINC WASHER
5	12	M10 X 50 X 1.25 ZP	ZINC PLATED BOLT
6	10	M10 x 1.25 NYLOC NUT	ZINC M10 NYLOC NUT
7	8	M12 27 X 13.3 X 4 WASHER	ZINC WASHER
8	4	M12 X 35 X 1.25 ZP	ZINC PLATED BOLT
9	2	NP M12 90P	10MM MS250
10	8	OUTER SHIM PLATE HIACE	2MM SS

DRIVERS SIDE SHOWN

PARTS LIST IS FOR BOTH DRIVERS SIDE AND PASSENGER SIDE
PASSENGER SIDE CHASSIS SUPPORT - ITEM 3 - NOT SHOWN



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Page 8 of 25

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2. PREPARE VEHICLE

Remove factory bumper and grille

IMPORTANT: The design of the plastic bumper varies on HiAce vehicles, these instructions show one design, there may be additional steps to remove the bumper on your vehicle or trim the bumper to fit the bull bar.

2.1

Open the bonnet. Remove the nine trim clips retaining the top radiator cowling and put aside with clips for re assembly.



2.2



Remove the M6 bolts retaining the grille. Four are visible from the top, one is behind the radar cover in the centre and two fasteners either side hidden near the headlights.



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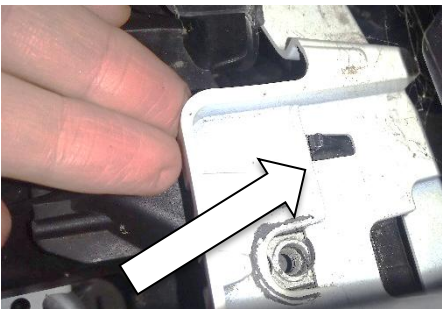
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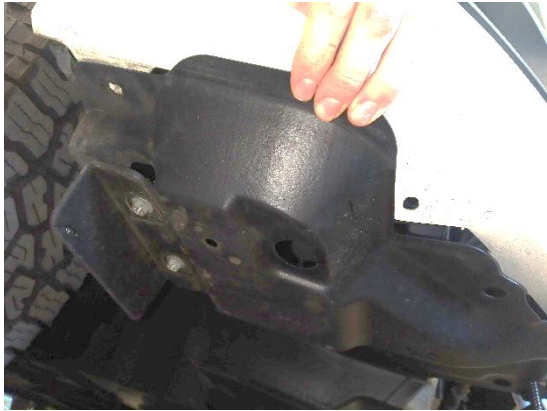
Page 9 of 25

03 9120 8814

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2.3	Two plastic catch clips fixed on the vehicle side retain the bumper, to detach; push the bumper towards the vehicle lift the tab and then pull the bumper away. The black catch clip is shown with the arrow in the image.	
2.4	Disconnect the three electrical plugs for the grille harness.	
2.5	Remove the small screw inside the wheel arch at the top.	



2.6	Remove the bumper from the wheel arch liner by unclipping the retaining clips. TIP: This section of the bumper will be cut off in installation using a trim tool to pry loose these clips.	
2.7	Using a trim tool remove the plastic covers on the bumper in the corner of the lower grille (bottom right corner and bottom left corner as shown).	
2.8	With the covers removed, loosen and remove the hidden bolt fixing the bumper in place. Repeat on other side.	
2.9	With the fasteners on the wheel arch liner already removed work underneath the vehicle from one side to the other identifying and removing all bolts and clips retaining the bumper.	


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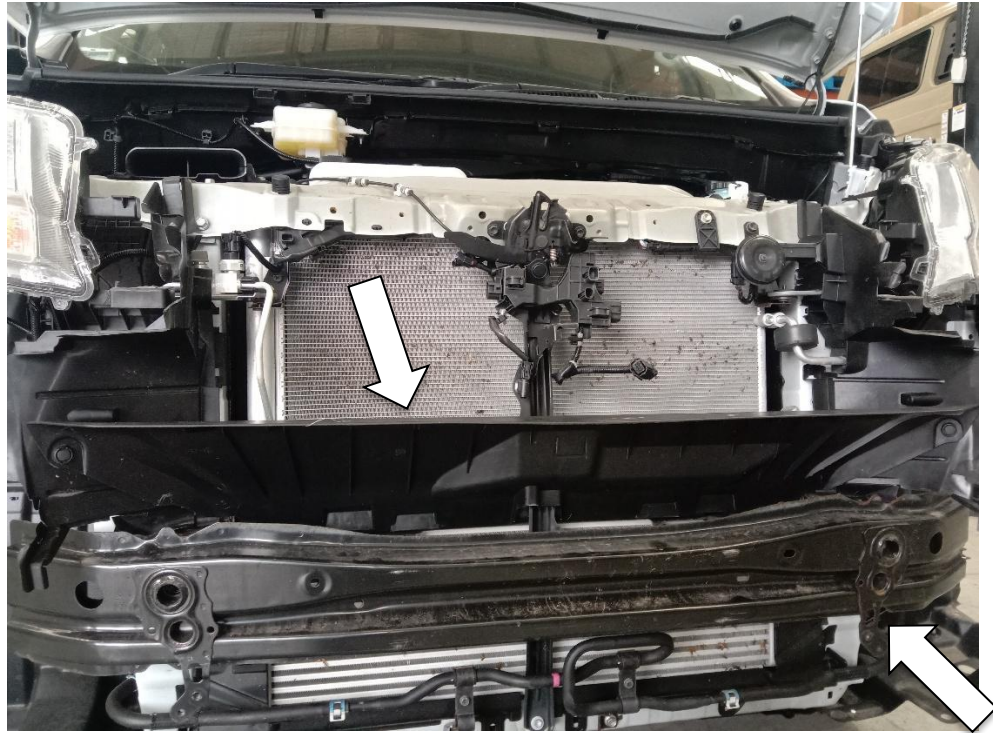
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Page 11 of 25

03 9120 8814

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2.10



Remove foam reinforcement cover and the crash beam and discard. If fitting a winch, the plastic air dam shown with the top arrow may need to be trimmed.

2.11



At this time remove the lower trim panel and the plastic shrouds shown and discard.



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Page 12 of 25

03 9120 8814

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2.12	On the chassis mounting plates two of the nuts welded to the chassis must be removed before fitting the chassis brace. Use angle grinder and chisel to assist with removal of the nuts. Once removed, apply touchup paint to protect the exposed steel, when removing the nuts be careful not to damage the chassis mounting plate. In the image the top outer nut is shown, the nut on the outermost edge of the mounting plate must also be removed.	
2.13	On the LHS of the vehicle, remove the washer reservoir, this is fixed in place with screws. The hoses will need to be detached and clamped as shown.	 


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FB-HIACE Rev A 05/08/2026

Page 13 of 25

03 9120 8814

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2.14	Unplug the parking sensors from the plastic bumper. Label the sensors and their orientations in the bumper then remove carefully with a knife, cutting the adhesive between the plastic sensor mount and the bumper. Place the sensors and harness aside. DO NOT DROP.	
2.15	If the vehicles radar is positioned lower on the grille (as shown in the image) it will need to be relocated, and the relocation assembly components used. Remove the Radar from the grille of the plastic bumper. Handle with care. DO NOT DROP.	 


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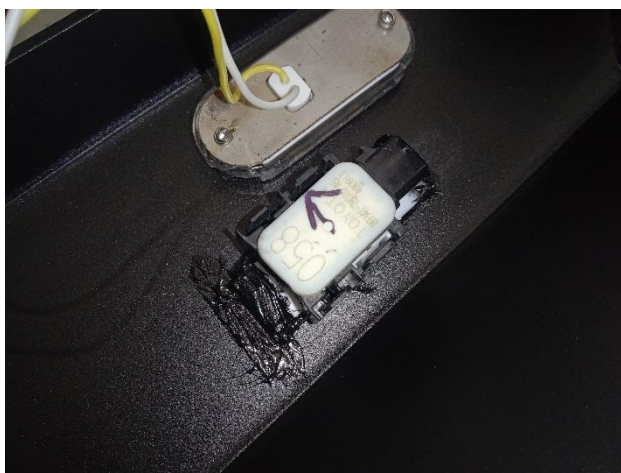
Page 14 of 25

03 9120 8814

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2.16	Locate the headlight plug and identify the indicator signal wire. Using approximately 150mm of two core cable, splice them into indicator and ground. These can be terminated with connectors or hard wired into bull bar indicator lights. Repeat on other side.	
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3. Prepare Bull Bar

3.1	Apply double sided tape or a suitable adhesive to the two sensor housings and fit to the bull bar in the correct orientation. Scuffing the powder coat lightly with sandpaper before applying the adhesive or tape will improve adhesion. Install the parking sensors in the bull bar , ensuring the orientation and position is correct.	
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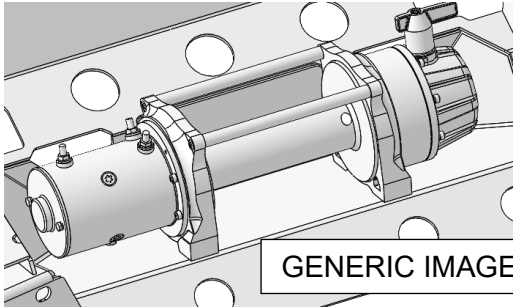
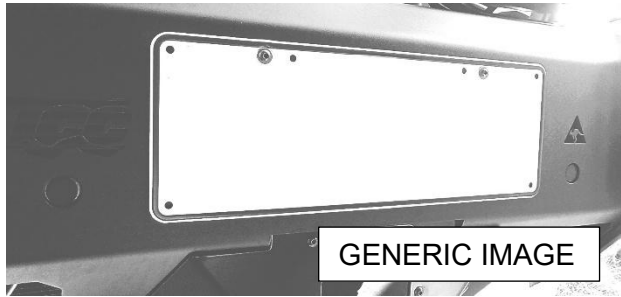
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FB-HIACE Rev A 05/08/2026

Page 15 of 25

03 9120 8814

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3.2	Refit the parking sensor harness in the bulbar.	
3.3	At this point if applicable mount the winch and fairlead.	 GENERIC IMAGE
3.4	Refit your number plate using the supplied fasteners in the NUMBER PLATE MOUNT KIT	 GENERIC IMAGE
3.5	If using connectors for the indicator light wiring add a corresponding connector now to the pigtails of the indicator light.	


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Page 16 of 25

03 9120 8814

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4. Fit the Bull Bar

4.1	Fit the two HIACE OUTER CHASSIS SUPPORT brackets on the vehicle chassis using the nut plates and bolts, refer to DETAIL A of the '1.3 Mounting bracket arrangement' drawing. Insert the nut plate into the chassis rail and fasten using the supplied bolts. TIP: Use a tool or stick masking taped loosely to the nut plate to help locate it in position and fasten the bolts, then remove this tool.	
4.2	Insert the bolt shown in DETAIL A of the '1.3 Mounting bracket arrangement' drawing, into the retained captive nut. This bolt faces forward protruding out of the faceplate (the other mounting bolts will be orientated inward). With the bolt protruding hang the 5mm packer plate	



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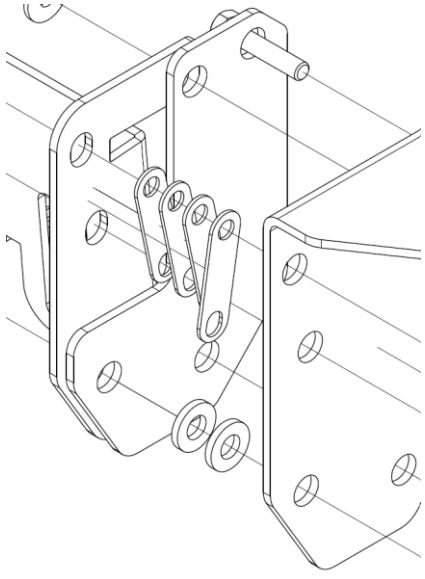
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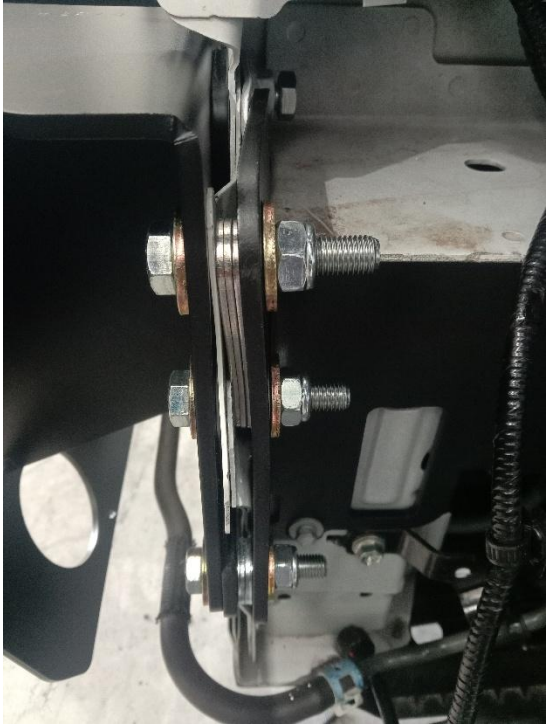
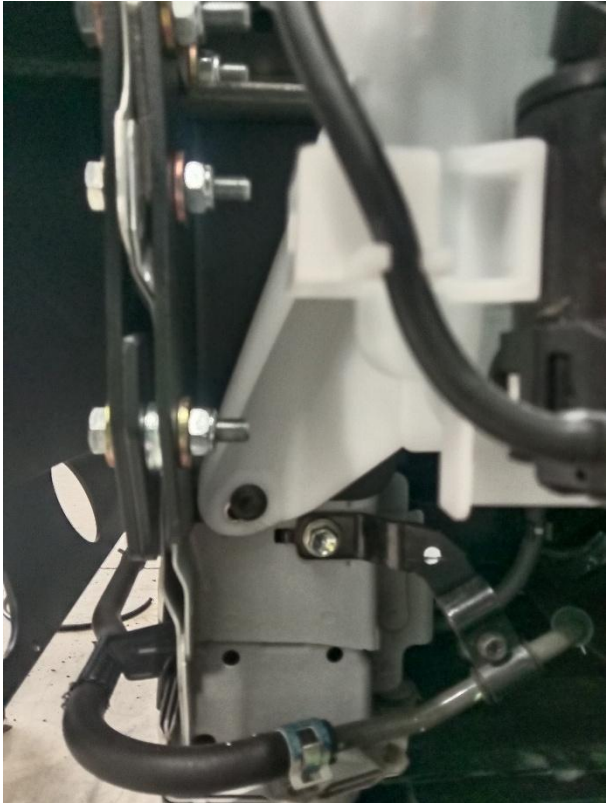
Page 17 of 25

03 9120 8814

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4.3	The slotted hole in the mounting bracket for replacing the washer bottle mounting bolt may need to be redrilled and modified to suit the hole position on the vehicle.	
4.4	With the support brackets in place and assistance from another person fit the bull bar to the faceplates on the vehicle with the supplied fasteners. Ensure that the two M12 packer washers and the small shim plates are fitted between the faceplate and the bull bar refer to DETAIL B of the '1.3 Mounting bracket arrangement's drawing. Note the photo shown does not show the additional shim for the top bolt unlike the illustration. Once the bull bar is in place with all fasteners loose, tighten all fasteners to torque spec.	



		
4.5	Refit the washer reservoir using the original fasteners.	



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Page 19 of 25

03 9120 8814

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4.6	The original plastic bumper must now be cut to size. Using masking tape on the vehicle and a marker mark distance increments around the headlight to use guide points, these can be every 100mm for example. Then from these points measure vertically down using a ruler to the bull bar at each of these points and record the measurement.	
4.7	The distances from the body panel also need to be taken and recorded.	
4.8	Mask the bumper with masking tape to avoid scratches, then transfer the measurements taken on the vehicle to the bumper. The plastic bumper needs to be cut for clearance around the bull bar wing, however material on the bumper remains from the hoop towards the centre of the vehicle. The image on the right shows the two sections. The section	


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FB-HIACE Rev A 05/08/2026

Page 20 of 25

03 9120 8814

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	on the wing should be cut so there is approximately 15mm clearance between the bull bar and the plastic bumper. The section of bumper toward the centre of the vehicle should be cut so that approximately 25mm of bumper remains underneath the edge of the bull bar. Once the final cut has been made with a multitool debur any sharp edges and refit the grille to the vehicle. TIP: Cut the bumper initially with excess material in both sections, then fit to the vehicle and mark the cut line directly on the bumper while fitted, then remove and make the final cut.	
4.9	Install the supplied pinch weld sealing strip to the exposed cut bumper edge (from the end of the bumper towards the transition point when the bumper becomes hidden). (Image shows bumper mounted, install pinch weld prior to fitting bumper).	
4.10	Before installing and checking the cut bumper add a cloth taped to the UHF ariel mounts on the bull bar to avoid scratching the bumper.	


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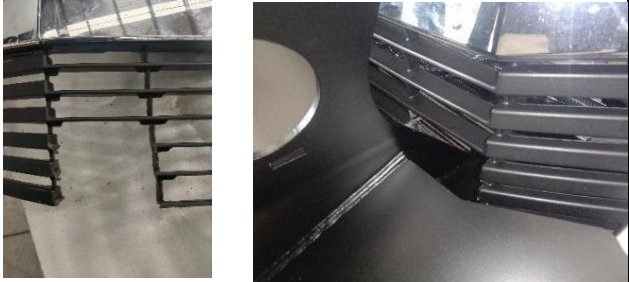
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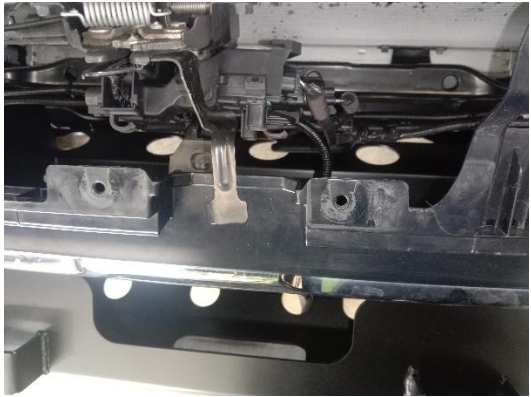
Page 21 of 25

03 9120 8814

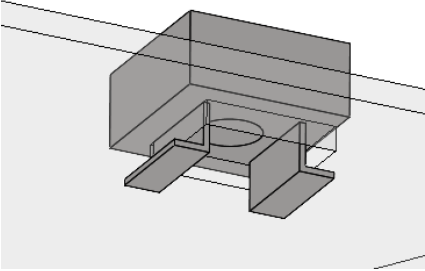
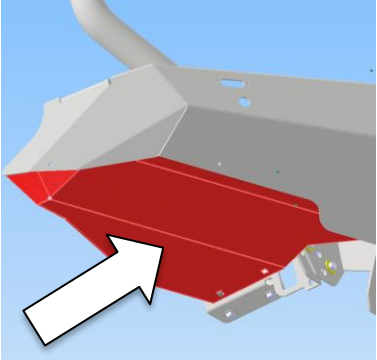
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4.11	Depending on the grille on the vehicle, the bumper may need to be trimmed to provide clearance around the bull bar mount. Refer to the images on the right.	
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5. Wire the Bull Bar

5.1	Wire the indicator lights into the extension prepared from the headlights. Plug in the parking sensor harness to the vehicle.	
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6. Prepare and fit undertrays

6.1	Install the supplied M5 cage nuts into the undertrays by pressing the cages into the square cutouts in the undertray. (The cage nuts should be fitted to the hidden side of the undertray)	
6.2	Loosely fit the undertrays to the bull bar on both sides using the supplied fasteners (HIACE UT FASTENER KIT and FBUNI-001)	


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FB-HIACE Rev A 05/08/2026

Page 22 of 25

03 9120 8814

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6.3	Using the remaining fasteners in the kit loosely fit the Rad Guard central under tray to the Bull bar using the supplied M5 button head screws with washers and nyloc nuts and the previously installed cage nuts in the wing undertray panels	
6.4	Apply Loctite to the M5 screws and fasten. DO NOT use power tools to avoid scratching the powder coat finish.	
6.5	The wheel arch liners can now be trimmed to size to suit the bull bar and be retained by the wing undertrays. Provide 5mm clearance between the cut edge wheel arch liner and the undertrays to allow for any relative movement. TIP: Like the bumper cut trim the wheel arch liners in increments to get the perfect fitment with the bull bar.	


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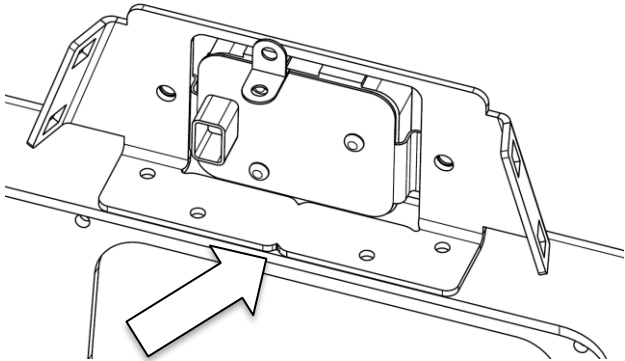
Page 23 of 25

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6.6	Refit the radiator cowling. Test the light functions.	
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7. Relocate Radar (if applicable)

7.1	Mount the previously removed radar unit to the Radar Mounting bracket using the supplied fasteners.	
7.2	Measure the centre of the bull bar and mark this point. Take the sensor mounting bracket and align the centre notch with this marked centerline, align the bracket so the back edge is flush on the bull bar then mark the four mounting hole positions with a centre punch. Remove the mount and drill the holes with a 6mm drill bit, use touch up black paint to seal the exposed metal surfaces. Once dry fit the radar mount to the bull bar.	


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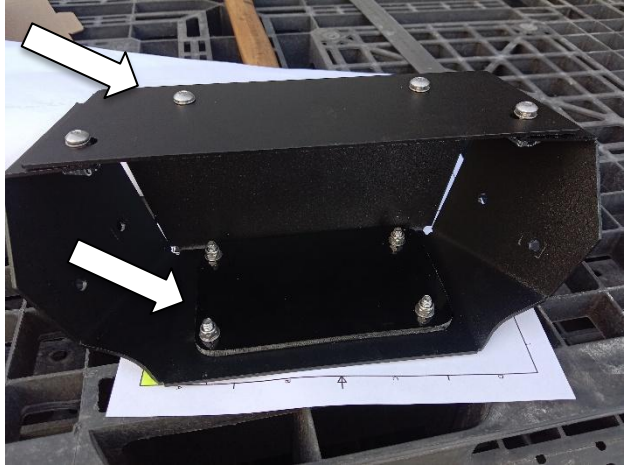
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FB-HIACE Rev A 05/08/2026

Page 24 of 25

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7.3	Fit the sensor cover acrylic plate to the inside of the sensor cover folded bracket using the supplied fasteners. Fit cage nuts to the sensor cover folded bracket and fit the sensor cover back plate.	
7.4	Finally using the remaining fasteners in the kit mount the sensor cover onto the mount. Feed the radar sensor harness through the grille and reconnect the radar.	

Congratulations 🎉

Thank you for choosing TCC and supporting Australian manufacturing!



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Page 25 of 25

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