



This instruction outlines extra steps required for installing an Offroad Animal bull bar to a Hilux Rugged X with genuine hoopless bull bar (PZQ290K090 or PZQ290K100).

1. Fully remove the genuine bull bar, mounts, braces.

Refer to Toyota PZQ290K090 instructions available at <https://toyotamanuals.com.au/accessories> for full removal procedure.

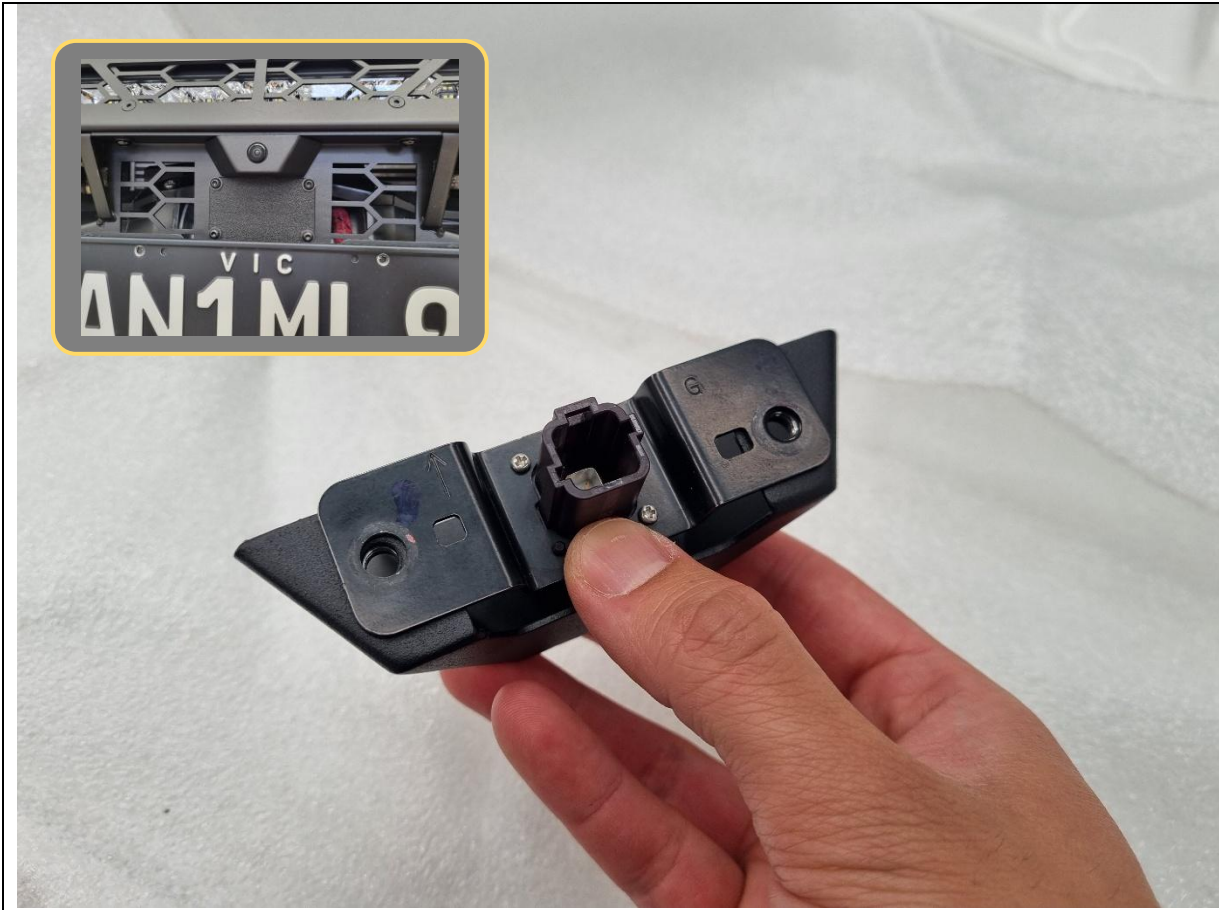
2. Follow the main Offroad Animal bull bar instructions for removing ancillary parts such as bumper, grille and bumper clips.
3. Proceed with Offroad Animal bull bar installation as per main instructions. Only the extra steps that differ than the regular install are highlighted in this document.

TOOLS REQUIRED

FASTENERS



<p>Camera relocation into the bull bar is optional but highly recommended if installing driving lights or Predator top hoops, as these accessories will block/limit visibility.</p> <p>Even if no accessories are fitted, the bottom portion of the front camera view will be blocked by the bull bar.</p> <p>The camera bracket and housing installed in the Rugged X grille is not the same as a standard vehicle. It sits further forward off the car compared to standard.</p>	<p>TOOLS REQUIRED</p> <p>Phillips head screwdriver Torx bit</p>
<ol style="list-style-type: none"> 4. If wanting to relocate, remove the 2x Phillips head screws holding the camera with bracket and housing to the grille. 5. Remove 2x Torx screws holding the plastic housing to the bracket. Then remove 2x small Phillips head screws holding the camera onto the bracket. 6. Retain the camera and screws. Then bolt the plastic housing back onto the bracket, and re-fit that onto the grille, using original fasteners. 	<p>FASTENERS</p> <p>4x Phillips head screws 1x Torx screws</p>



7. For the camera, bolt it onto the supplied B-1934 relocation bracket re-using the small Phillips head screws.
8. Relocate the camera with relocation bracket onto the mesh fairlead as per main instructions.
9. There is a plastic blanking plug supplied to plug the hole left behind in the grille.

TOOLS REQUIRED

Phillips head screwdriver

FASTENERS

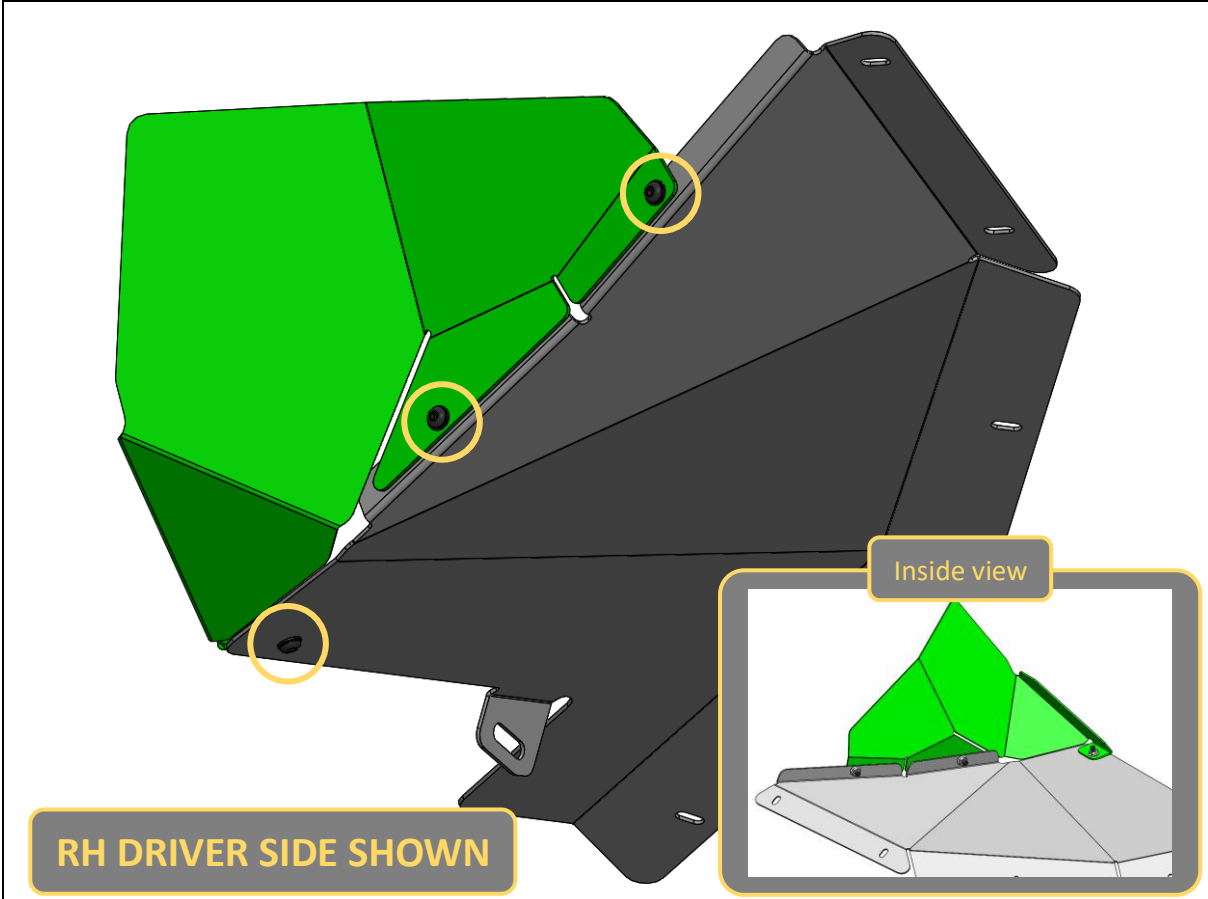
2x Phillips head screws



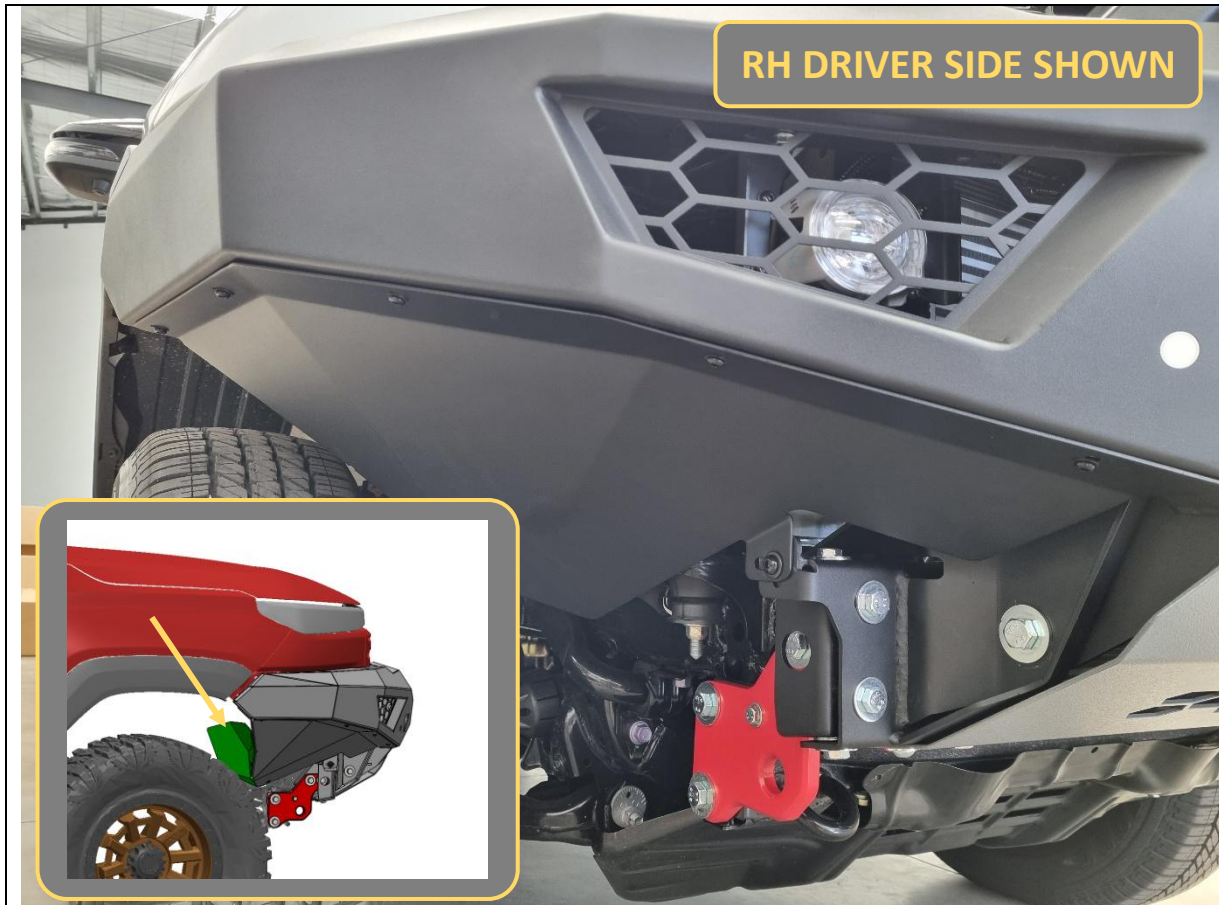
- 10. On the genuine bull bar, the wheel arch liner on the driver RH side is trimmed very high relative to the bottom of the bull bar.
- 11. This will result in a wide opening being left behind when installing the Offroad Animal bull bar.
- 12. You can either leave this area open, or fit a cover panel outlined in the next steps.

TOOLS REQUIRED

FASTENERS



<p>13. Before installing the side underpanels, align the supplied B-1933 wheel arch liner infill panel (highlighted green) to the back of the RH side underpanel.</p> <p>14. Mark the 3x spots on the side underpanel matching the hole locations on the infill panel. Then drill 3x holes in the side underpanel using a 7mm drill bit. Deburr and paint the hole edges.</p>	<p>TOOLS REQUIRED</p> <p>Electric drill 7mm drill bit Deburring tool Paint pen</p> <p>4mm hex/Allen key</p>
<p>15. Secure the B-1933 infill panel to the RH side underpanel using 3x M6x16 black button head bolts, black washers and flange nuts.</p>	<p>FASTENERS</p> <p>3x M6x16 black button head 3x M6 black washer 3x M6 flange nut</p>



- 16. Fit the side underpanels as per the main instruction.
- 17. Tuck the wheel arch liner behind the infill panel.
- 18. LH wheel arch liner should align with the LH side underpanel with only minimal trimming. No infill cover panel is required.
- 19. Supplementary steps complete.

TOOLS REQUIRED

FASTENERS