

TOYOTA HILUX N80

2015 MY ONWARDS

REAR BAR

IMPORTANT! – READ BEFORE INSTALLATION

- When installed in accordance with these instructions, the rear protection tow bar maintains the factory tow rating of your vehicle.
- 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 bar 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.
- Do not remove labels from this product.
- 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.

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	RB-THL-N80-15-ASM1	N80 Hilux rear weldment	
1	B-0115R	Under support N80 REAR	
1	B-0115L	Under support N80 REAR	
2	B-0302	Rear Bar Sensor Hole Cover	
2	B-0522	Hilux Rear Bar - Sensor Infill Bracket Straight style	
2	BR25B	LED NUMBER PLATE LIGHT	
2	PW-S-450	Pinch Weld - Plain Non Seal 450mm	

Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description
4	M6 FLAT WASHER BLACK ZINC	M6 FW BLACK ZP
4	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9 BLACK ZP
4	M10 x 25	Bolt Hex, M10X25x[1.5], GR8.8 ZP
8	M10 FLANGE NUT	Flange Nut, M10x1.5 G8.8 ZP
8	M10 Flat Washer	M10 FW
8	M12X50x1.25	Bolt Hex, M12X50x1.25, GR8.8 ZP
12	M12 FLAT WASHER	M12 FW
4	M10X25 BHCS	SCREW, BUTTON HEAD CAP, M10X25X1.5 GR12.9 ZP
6	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP
4	M12 FLANGE NUT	Flange Nut, M12x1.75 G8.8 ZP
4	M12X30	Bolt Hex, M12X30x1.75, GR8.8 ZP
2	M5 NYLOC	NYLOC SELF LOCKING NUT, ST STL A2 ISO
2	M5X20 PAN	SCREW, PAN HEAD PHILLIPS, M5X20X0.8 GR4.6 ZP
2	M6 FLAT WASHER	M6 FW
2	M6 X 20 HEX	M6X20 HEX BOLT, ZP, 8.8

TOOLS REQUIRED

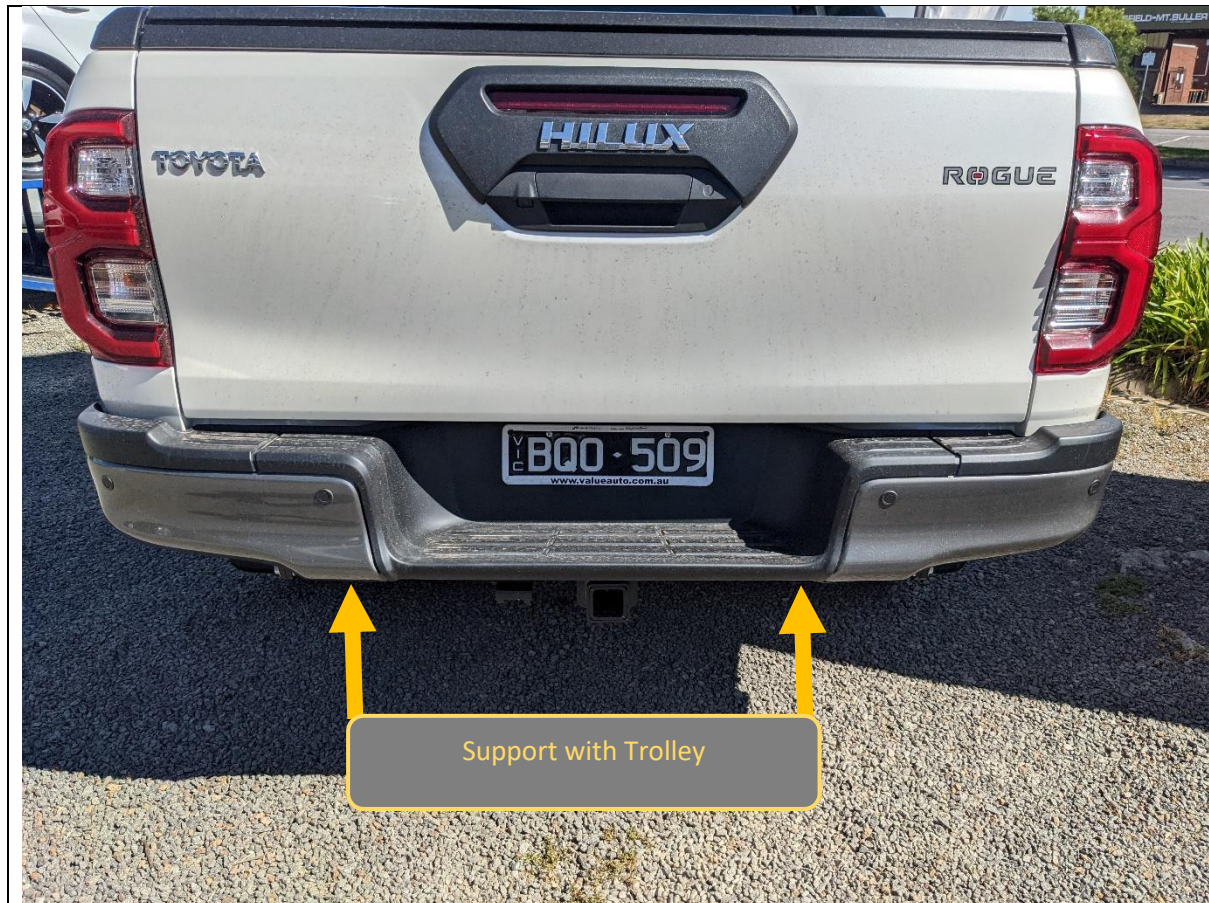
The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Equipment
Metric Socket Set 8-19mm Metric Spanner Set 8-19mm Hex (Allen) Key Set 4-8mm Trim Tool Utility Knife Side Cutters Wire Strippers	Soldering Iron Heat Gun Electric / Air Impact Driver (Optional but speeds up fitting process)	Lift Trolley Solder Heat Shrink

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.

<p>Hearing Protection</p> 	<p>Always wear ear protection when using power tools.</p>
<p>Eye Protection</p> 	<p>Ensure eye protection is always worn when cutting or drilling.</p>
<p>Manual Handling</p> 	<p>Do not attempt to lift bar assemblies or rock sliders on your own.</p> <p>Always use two people to lift or use mechanical Lifting aid such as hydraulic lifting trolley.</p>
<p>Vehicle Support</p> 	<p>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.</p>



1. Before beginning work, support the factory rear bar / tow bar using lift trolley or jack.

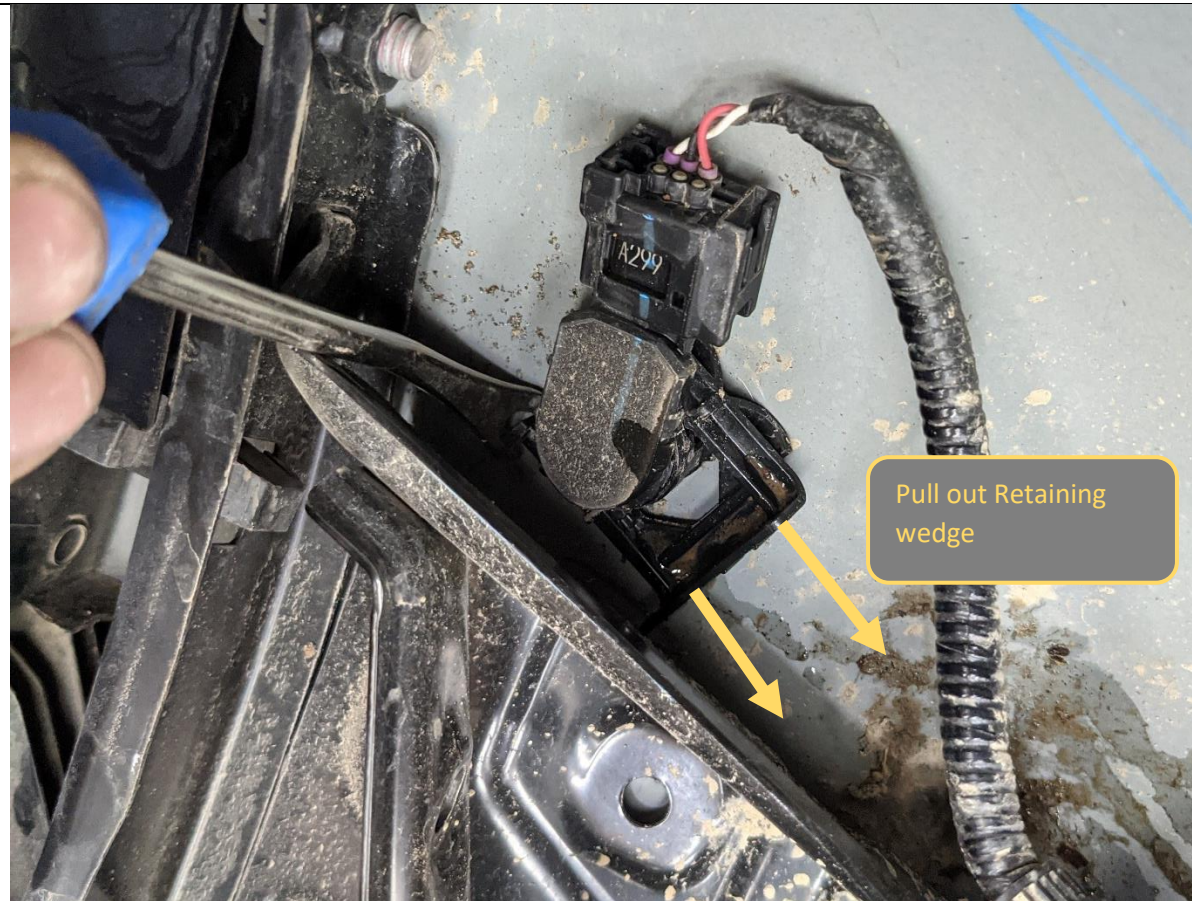
TOOLS REQUIRED
Lift Trolley

FASTENERS



2. Disconnect the trailer wiring harness from the bar by unscrewing it from the plug bracket.
3. Disconnect the parking sensor and number plate lamp harness, by disconnecting the wiring harness connector.
4. Remove the 4x Bolts securing the Rear Bar / Tow bar to the chassis rail.
5. With all fasteners removed and the factory bar/ bumper assembly free, carefully lower, then remove from vehicle towards the back once clear of the lower tub panels

TOOLS REQUIRED**Socket / Spanner****FASTENERS**



6. Remove parking sensors from housings, by prying open the retaining wedges, whilst pushing the sensor through the housing from the outside of the bumper.
7. Repeat for all sensors in the bumper.
8. Remove Bulbs from Number plate lamps. Bulbs are secured with spring loaded bayonet type attachment, Push and turn to release.
9. Unclip and remove number plate light loom.
10. Remove number plate from original rear bar.

TOOLS REQUIRED**FASTENERS**



11. Fit the center housings into the sensor brackets. Insert outer housing from outside then secure from back side using fixing wedge. Note that the correct wedge for the housing must be used (White inside, Black Outside)
12. Complete the same process to install the outer sensor brackets directly in the wing of the rear bar.
13. Install sensor brackets in rear bar using M6x16 Button head bolt, Flat washer, and M6 Flange Nut.

TOOLS REQUIRED**FASTENERS**

4x M6 Button Head Bolt
4x M6 Flat Washer
4x M6 Flange Nut



14. Fit the number plate lamps to the rear bar, by first feeding the cable the bar, then securing with screws and nuts supplied in the lamp box.
15. Cut off lamp holders from the factory loom. Strip ends and solder to new LED number plate lamp cables. Use heat shrink or electrical tape to insulate solder connections.
16. Complete for both sides of vehicle.

TOOLS REQUIRED

Soldering Iron
Solder
Heat Shrink / Gun
Electrical Tape
Side cutters
Wire strippers


FASTENERS

Screws supplied with Lights



17. Install sensors in housings by inserting into housing from rear of bar and pushing until audible "Click" is heard.
18. Run the loom neatly around the bar, Secure with cable ties if required.
19. Complete for both sides of vehicle.

TOOLS REQUIRED**FASTENERS**

		
<p>20. Fit rubber pinch weld to lower edges of wing, in the location shown by pushing rubber over the edge.</p> <p>21. Complete for both sides of vehicle.</p>	TOOLS REQUIRED	
	FASTENERS	



22. With assistance, from a lift trolley or another person, lift the rear bar onto the car.

23. Secure to side chassis nuts using original factory M12 flange bolts.

24. Secure to bottom of chassis using 2xM12x30 Bolts, M12 Flange Nuts and M12 Flat Washers

TOOLS REQUIRED
Socket / Spanner

FASTENERS
4x M12 Flange head bolts
2xM12x30 Bolts
2x M12 Flange Nut
2x M12 Flat Washer

per side



25. Fit tub protection brace to the upright using 2x M10x30 Hex Bolts, flat washers and M10 Flange nuts.

26. Secure to wing using 2x M10x25 Button head bolts.

27. Repeat for other side of vehicle.


TOOLS REQUIRED

16mm Socket / 15mm
Spanner
6mm Hex wrench

FASTENERS

6x M12 Flange head bolts
1x M12 Flange Nut
1x Factory tow bar nut plate

per side

	
<p>28. Secure trailer plug to bracket on vehicle using M5 Screw and Nyloc Nut provided</p> <p>29. Secure the loom using cable ties as required.</p> <p>30. Re connect the sensor and number plate lamp harness connectors</p>	<p>TOOLS REQUIRED</p> <p>8mm socket / spanner Phillips head screwdriver Cable Ties</p>
	<p>FASTENERS</p> <p>2x M5 Phillips head screw 2xM5 Nyloc nut.</p>



31. Fit M10x30 Hex bolt and M10 Nut to anti rattle location on bottom of Hitch Box
32. Replace TBM and secure with new Pull Pin and R Clip.
33. Attach Offroad Animal Logo plate to chamfered face, using attached adhesive backing.
34. With that you are done!

TOOLS REQUIRED

FASTENERS
Pull Pin
R-Clip
M10x30 Bolt
M10 Nut



Congratulations!
Head for the tracks and enjoy your newly protected Hilux!