



Toyota Hilux N80 2015-2020 Predator Front Bar

IMPORTANT! – READ BEFORE INSTALLATION

- When installed in accordance with these instructions, the front protection bar does not affect the operation of the vehicles SRS airbags.
- 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	FB-THL-N80-15-PR-ASM1	Hilux N80 Predator Bar Weldment	
1	FB-THL-N80-15-PR-ASM2L	Hilux Chassis Mount Assy	
1	FB-THL-N80-15-PR-ASM2R	Hilux Chassis Mount Assy	
1	B-0152L	Hilux Front Mount - Chassis Brace	
1	B-0152R	Hilux Front Mount - Chassis Brace	
1	M-0005	Hilux Mesh - Center Fairlead Support	

1	M-0006L	Hilux Mesh Infill LHS	
1	M-0006L	Hilux Mesh Infill RHS	
1	NPF-COM-SM-ASM0	Number plate flip asm Small	
1	U-0009	Hilux N80 Bash Plate	
1	U-0006L	Hilux Front Bar - Side Underpanel	
1	U-0006R	Hilux Front Bar - Side Underpanel	
1	M-0002L	Light Cover Mesh	
1	M-0002R	Light Cover Mesh	
1	B-0185L	Toyota Style Fog Lamp Bracket LHS	

1	B-0185R	Toyota Style Fog Lamp Bracket RHS	
1	P-0056	Front Cover Plate - N80 Hilux Predator	
1	B-0195	Hilux Grille Support Bracket	

Small Parts – Contained in Small Parts Kit Bag

Qty	Part Number	Description
26	M6 FLANGE NUT	Flange Nut, M6x1 G8.8 ZP
36	M6 FLAT WASHER BLACK ZINC	M6 FW BLACK ZP
36	M6x16 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M6X16X1 GR12.9 BLACK ZP
8	M12X40	Bolt Hex, M12X40X1.75, GR8.8 ZP
16	M12 FW LHD	M12 FW Large Heavy Duty
8	M12 Nyloc nut	M12 NYLOC NUT
10	M6CN3MM	CAGE NUT M6x2.6-3.5
8	M8X20	Bolt Hex, M8X20X1.25, GR8.8 ZP
8	M8 FLAT WASHER	M8 FW
16	M8 FLANGE NUT	Flange Nut, M8x1.25 G8.8 ZP
6	M8 X 20 BHCS BLACK ZINC	SCREW, BUTTON HEAD CAP, M8X20X1.25 BLACK ZP
8	M8 FLAT WASHER- BLACK ZINC	M8 FW- BLACK ZINC
2	M8 X 16 BHCS BZP	SCREW, BUTTON HEAD CAP, M8X16X1.25 GR12.9 BLACK ZP
2	M10X30 BHCS	SCREW, BUTTON HEAD CAP, M10X30X1.5 GR12.9 ZP
12	M10 Flat Washer	M10 FW
12	M10 FLANGE NUT	Flange Nut, M10x1.5 G8.8 ZP
2	NP-THL-N80-15-PR	Nut Plate - Hilux Predator
6	M12 FLAT WASHER	M12 FW
4	M12X30	Bolt Hex, M12X30x1.75, GR8.8 ZP
10	M10 x 30	Bolt Hex, M10X30x[1.5], GR8.8 ZP
2	M12X30X1.25	Bolt Hex, M12X30x1.25, GR8.8 ZP
1	OFA-LOGO	OFFROAD ANIMAL METAL LOGO
2	P-0072	Predator Bash Plate Shim

TOOLS REQUIRED

The following tools will be required to install the product.

Hand Tools	Power Tools	Workshop Equipment
Metric Socket Set 8-19mm Socket Extension Bar Metric Spanner Set 10-19mm Hex (Allen) Key Set 4-8mm Trim Puller Tool Flat Blade Screwdriver set Phillips Head Screwdriver set Utility Knife	Electric/Air Impact Driver (Optional) Air Hacksaw or Angle grinder (Facelift models only)	Panel Stand or Soft Blanket

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. Remove the front bumper and grille as per factory workshop manual.
2. Further steps to be added in revised issue of instructions.

TOOLS REQUIRED

**Trim Tool
Spanners / Sockets
Screwdrivers?**

FASTENERS

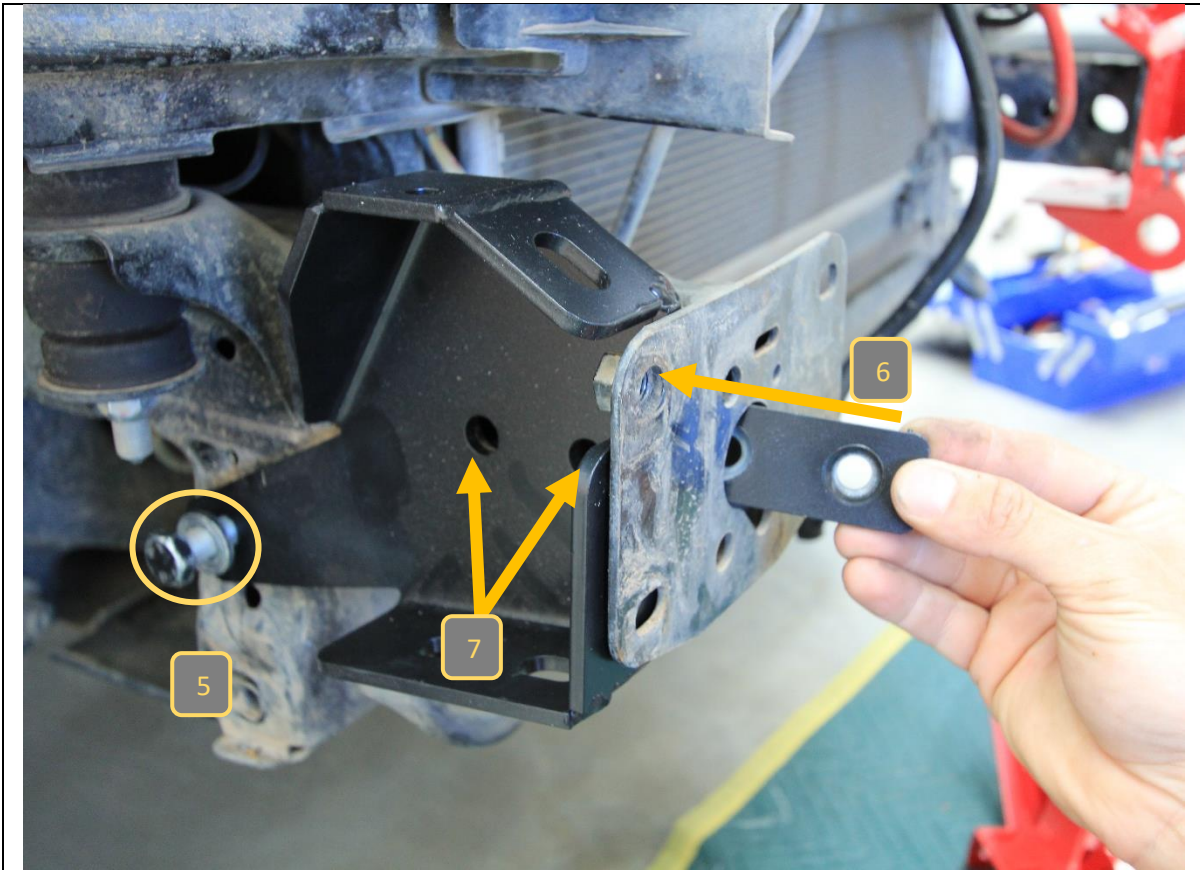
Lots



3. Vehicle chassis rails should now be totally exposed as shown.
4. For light colored vehicles it is a good idea to paint the exposed panels beneath the headlight black, to ensure neat appearance once bar is fitted.

TOOLS REQUIRED

FASTENERS



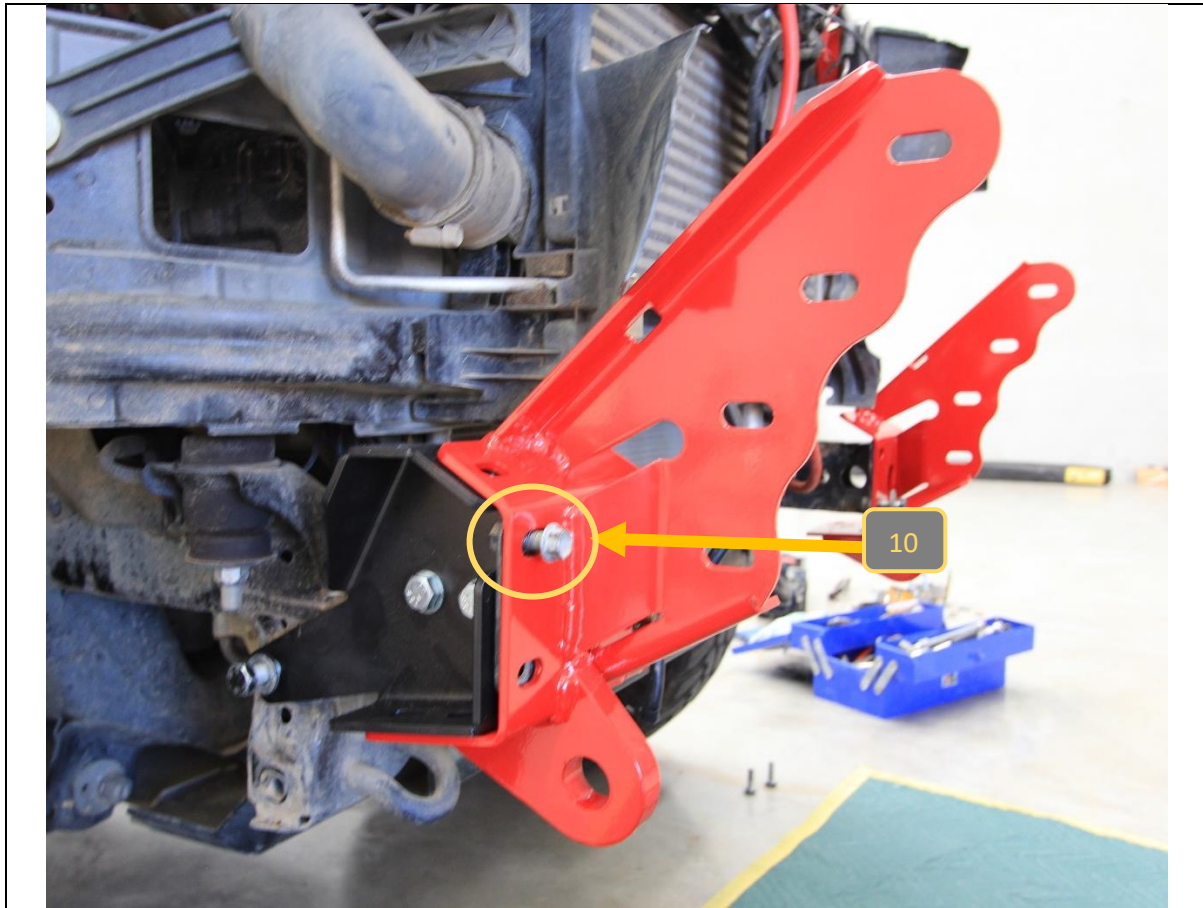
5. Take the chassis brace and fit loosely to the threaded M12 Fine pitch point in chassis, using M12x30x1.25 Bolt and flat washer.
6. Insert the Nut Plate into the chassis rail through the opening on the front of the chassis.
7. Secure the nut plate with M12x30 Standard pitch bolts and flat washers through the holes shown. Leave finger tight at this stage.
8. Repeat for other side of vehicle.

TOOLS REQUIRED

FASTENERS

1x M12x30x1.25p Bolt
2x M12x30x1.75p Bolt
3x M12 Flat washer.

PER SIDE

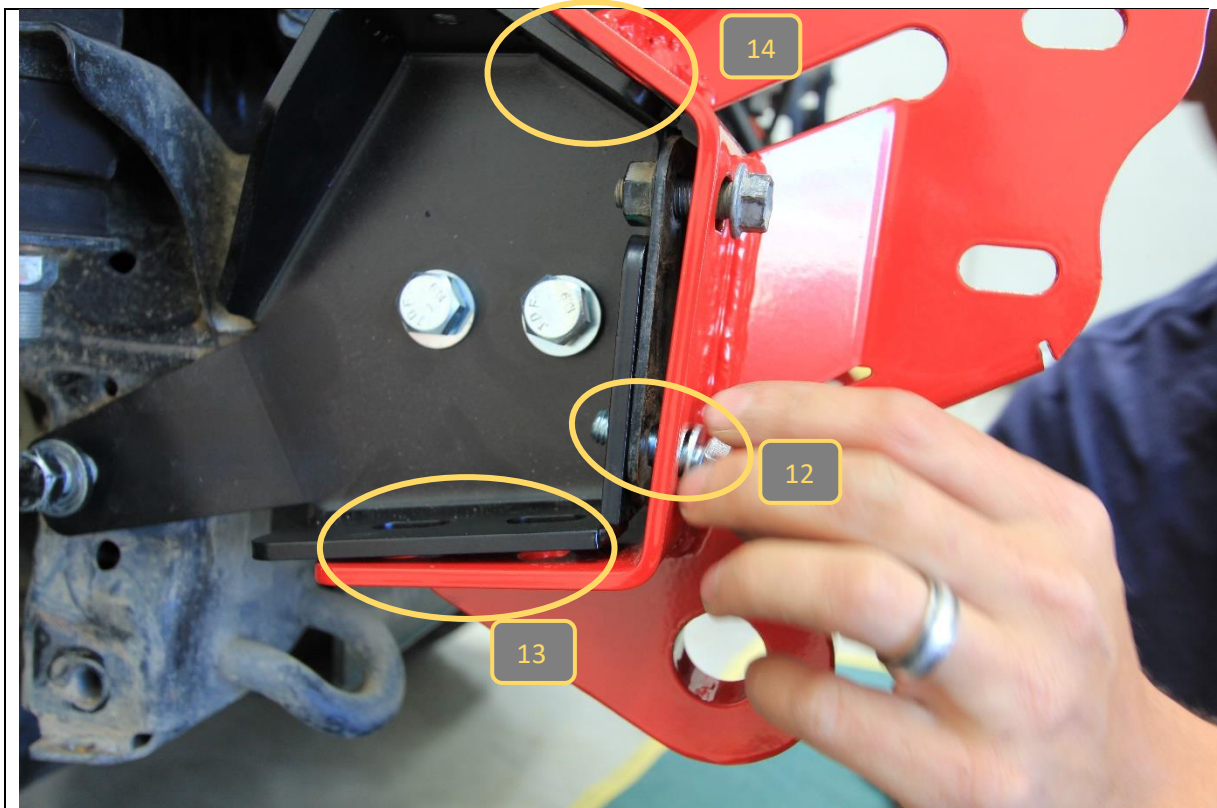


9. Fit the impact assembly to the end of the chassis rail.
10. Secure finger tight with the original M10 bolts in the threaded inserts in chassis.
11. Repeat for other side of vehicle

TOOLS REQUIRED

FASTENERS

2x Factory M10 flange bolt
per side.



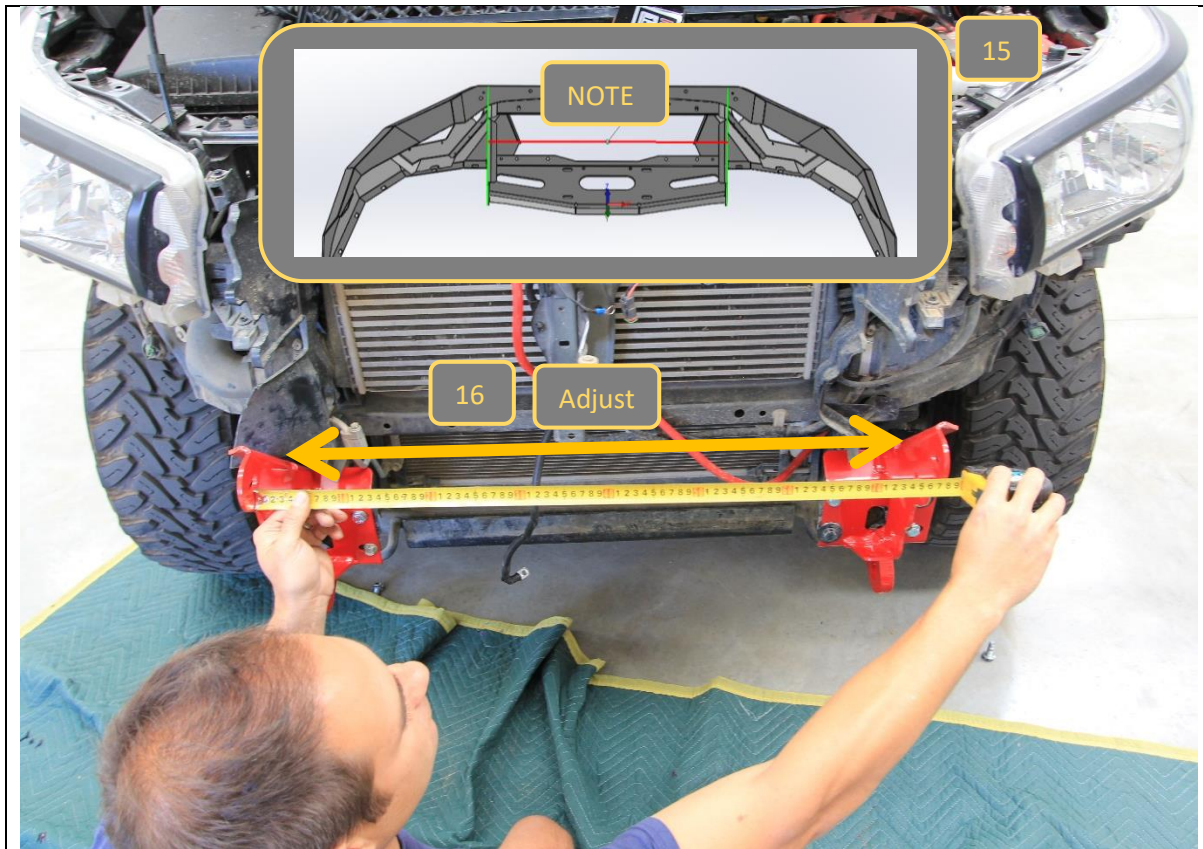
12. Fit remaining bolts to the impact assembly. 2x M10x30 Bolts, 4x Flat washers and 2x Nyloc nuts to front face.
13. Fit 2x M10x30 Bolts, 4x Flat washers and 2x Nyloc nuts to Bottom face.
14. Fit 1x M10x30 Bolt, 2x Flat washers and 1x Nyloc nuts to Top face.

TOOLS REQUIRED

FASTENERS

5x M10x30 Bolt
10x M10 Flat washer
5x Nyloc Nut

per side.



15. Measure the distance between the outside faces of the uprights on the bar. Note this distance

Bar uprights _____mm

16. Adjust the distance between the impact assemblies to be approx. 1-2mm greater than the upright distance on the bar.

17. Tighten bolts on the impact assemblies and re-check distance. Loosen and adjust as required until the distance between mount when mounts are tight is correct.

TOOLS REQUIRED

Tape measure
16mm Spanner
16mm Socket

FASTENERS



18. Insert cage nuts to square slots in bottom of wings.
Seat cage nut against one edge of slot then push
other edge in with flat bladed screwdriver.

TOOLS REQUIRED
Flat bladed screwdriver

FASTENERS
6x M6 Cage Nuts



19. With assistance, from either another person or mechanical lifting aid such as a lift trolley, offer the bar up to the mounts.
20. Secure the bar to the mounts using single M12x30 Bolt 2x M12 Heavy Duty flat washers and M12 Nyloc Nut per side
21. Loosely fit the other 3x M12x30s Bolt 6x M12 Heavy Duty flat washers and 3xM12 Nyloc Nuts per side.

TOOLS REQUIRED
Lifting trolley

FASTENERS
8x M12x30 Bolt
16x M12 HD Washer
8x M12 Nyloc Nuts



22. Align the bar with the body. Aim for 15-20mm clearance between the wing and body.

23. With assistance, Hold the bar in position and tighten all the Bar to mount bolts, using 18mm socket and spanner.

An Electric Impact wrench makes this process much easier.

TOOLS REQUIRED

18mm socket
18mm spanner

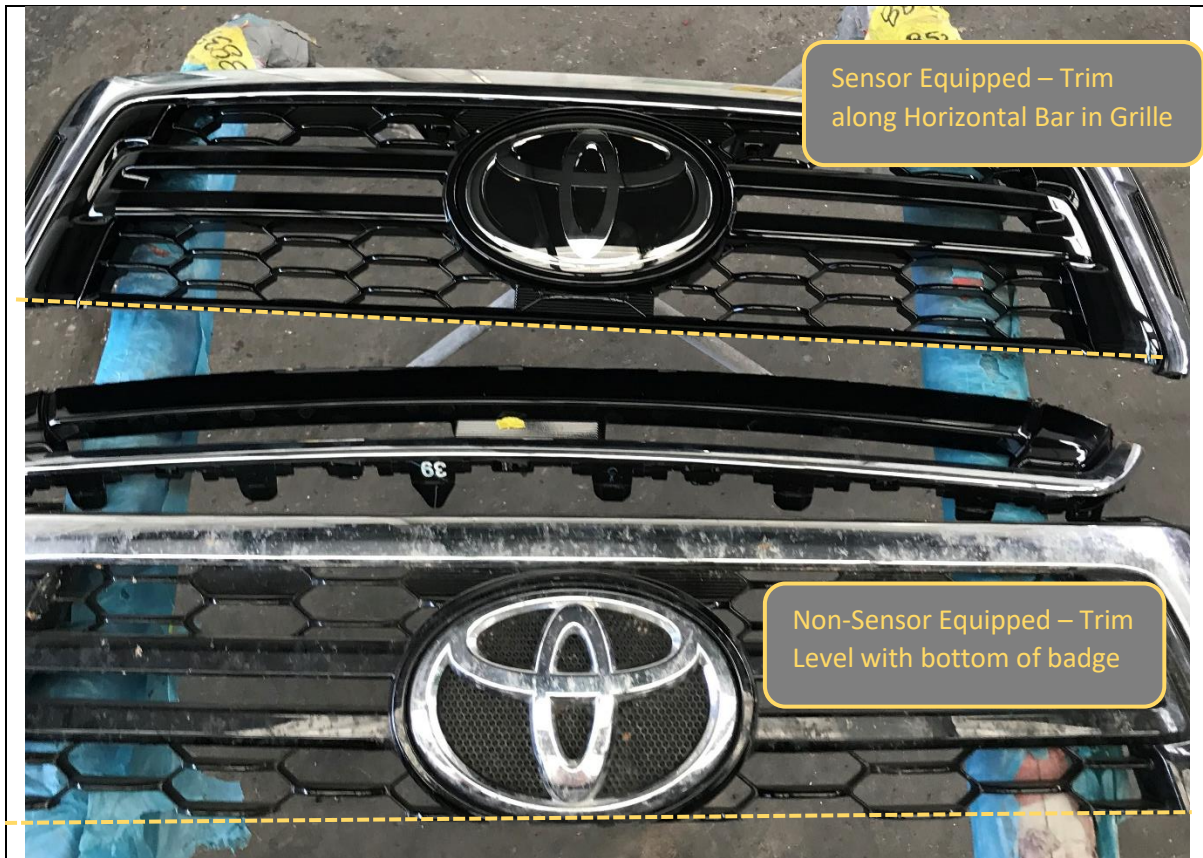
FASTENERS



24. If fitting a winch to the bar, do so at this stage. Follow the winch manufacturer's instructions.
25. The winch mounts feet down and is inserted through the front opening of the bar.

TOOLS REQUIRED
Refer to winch
Instructions

FASTENERS
Refer to winch
Instructions



<p>26. For N80 Facelift models 2019-on, a grille cut is required if fitting a winch.</p> <p>27. Remove grille from car and mark cut, as shown above.</p> <p>28. Note there are two different versions of the facelift grilles, pre “Toyota safety Sense” (shown below), and sensor equipped (shown above, from Late 2019 On)</p>	<p>TOOLS REQUIRED Air Hacksaw or Angle Grinder</p>
<p>29. Cut along mark using air hacksaw or angle grinder.</p>	<p>FASTENERS Refer to winch Instructions</p>



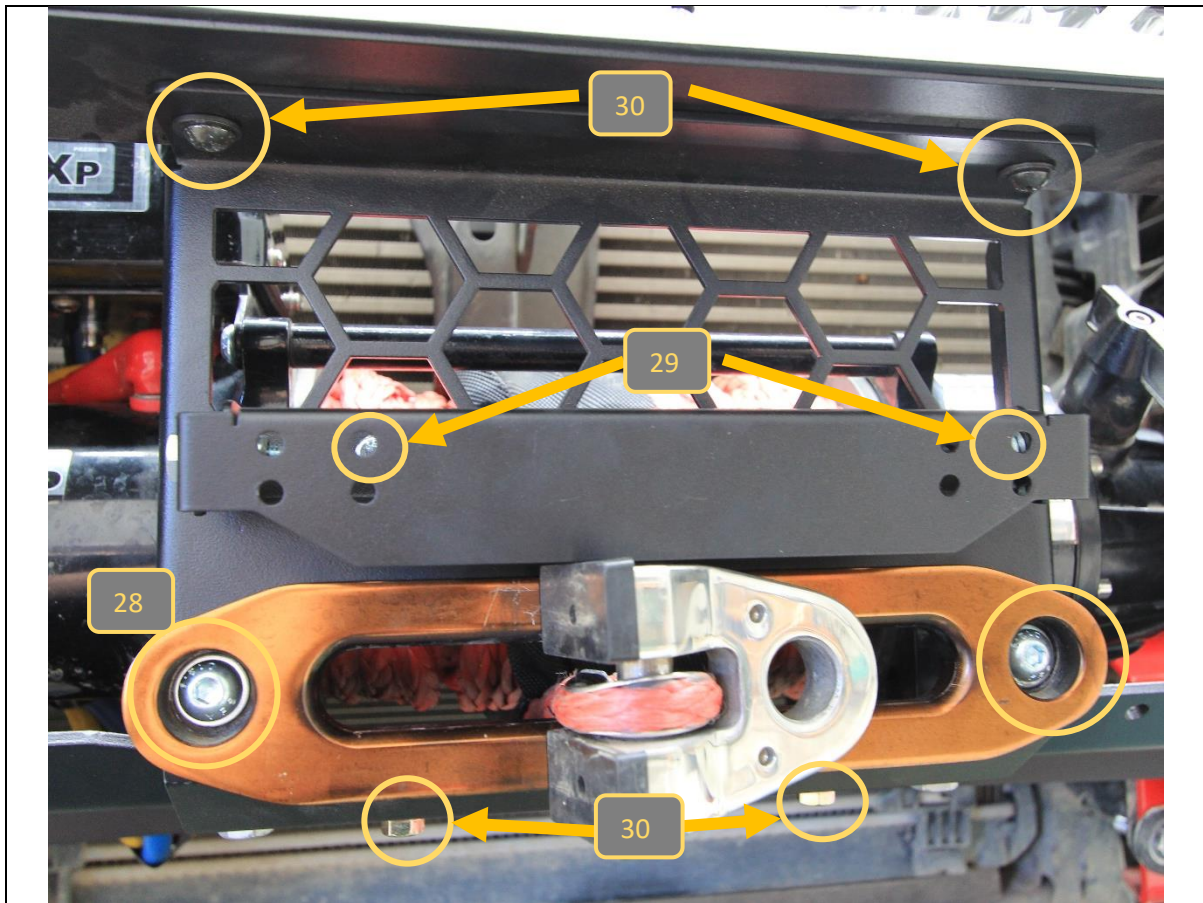
30. If fitting a top hoop to the bar, do so at this stage. Follow instructions supplied with the top hoop kit.

NOTE: UPDATE MODELS fitted with “**TOYOTA SAFETY SENSE**” are **NOT COMPATIBLE** with any hoop fitment or any accessory that covers the radar sensor located in the badge.

31. It is also good time to complete any wiring required for fitment of Lights / UHF on the bar.

TOOLS REQUIRED
Refer to hoop Instructions

FASTENERS
Refer to hoop Instructions



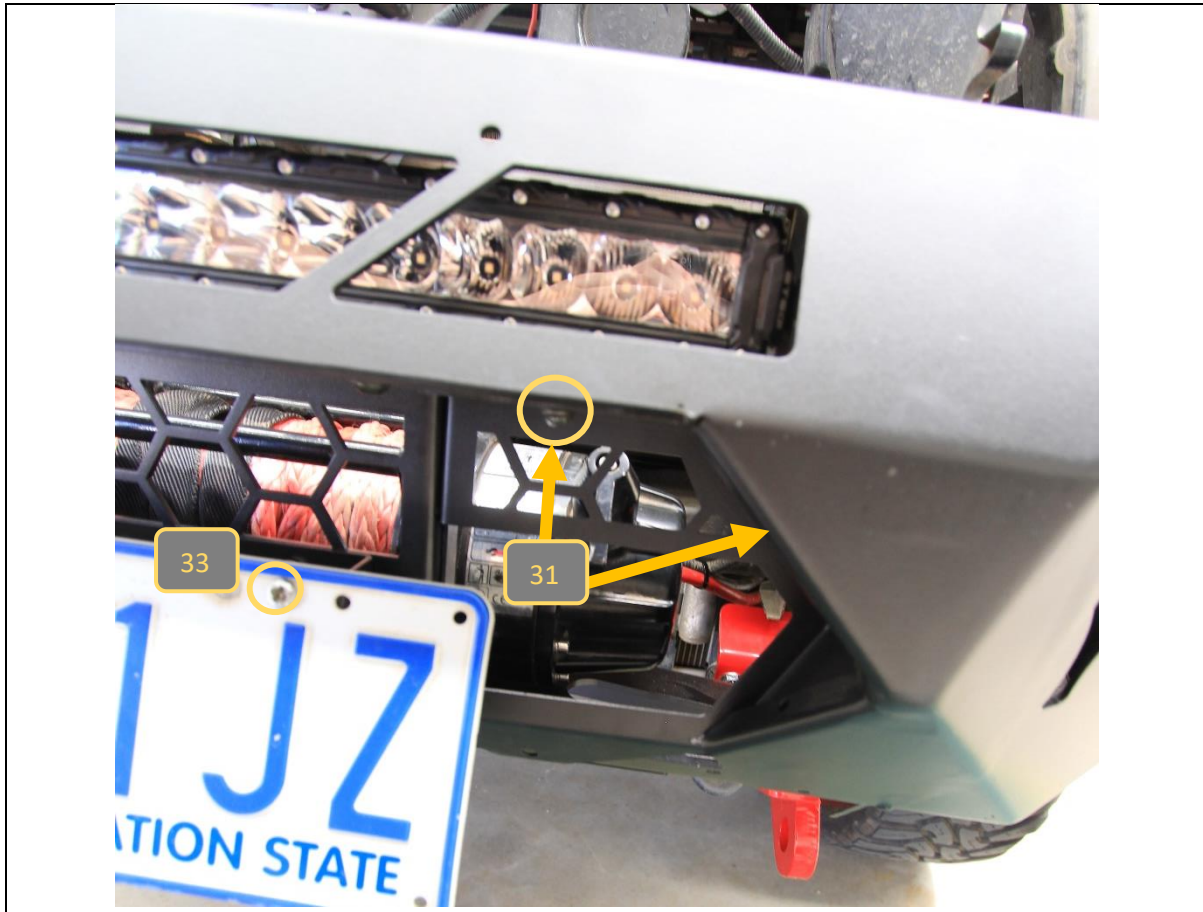
32. If fitting winch, attach fairlead to center mesh panel using bolts supplied in winch fitting kit. Ensure winch rope is fed through fairlead.
33. Fit number plate flip to mesh panel using M6x20 Hex bolt, Flat washer and flange nut, supplied in number plate flip kit.
34. Fit Mesh panel to the bar. Secure with 2x M8x16 Black Button Head Screws, M8 Flat washer and M8 Flange nuts at top and 2x M8x20 Black BHCS M8 Flat washer and M8 Flange nuts at Bottom

TOOLS REQUIRED

- 5mm Hex Key
- 13mm Spanner
- 10mm spanner

FASTENERS

- 2x M6x20 Hex Bolt
- 2x M6 Flat washer
- 2x M6 Flange Nut
- 2x M8x16 Button Head
- 2x M8x20 Button Head
- 4x M8 Black Flat Washer
- 4x M8 Flange Nut



35. Fit the side mesh panel to the bar, using only the top and side points at this stage. Secure with 2x M6x16 Black Button head, bolts, Black M6 Flat washer and flange nut.

36. Repeat for other side of vehicle.

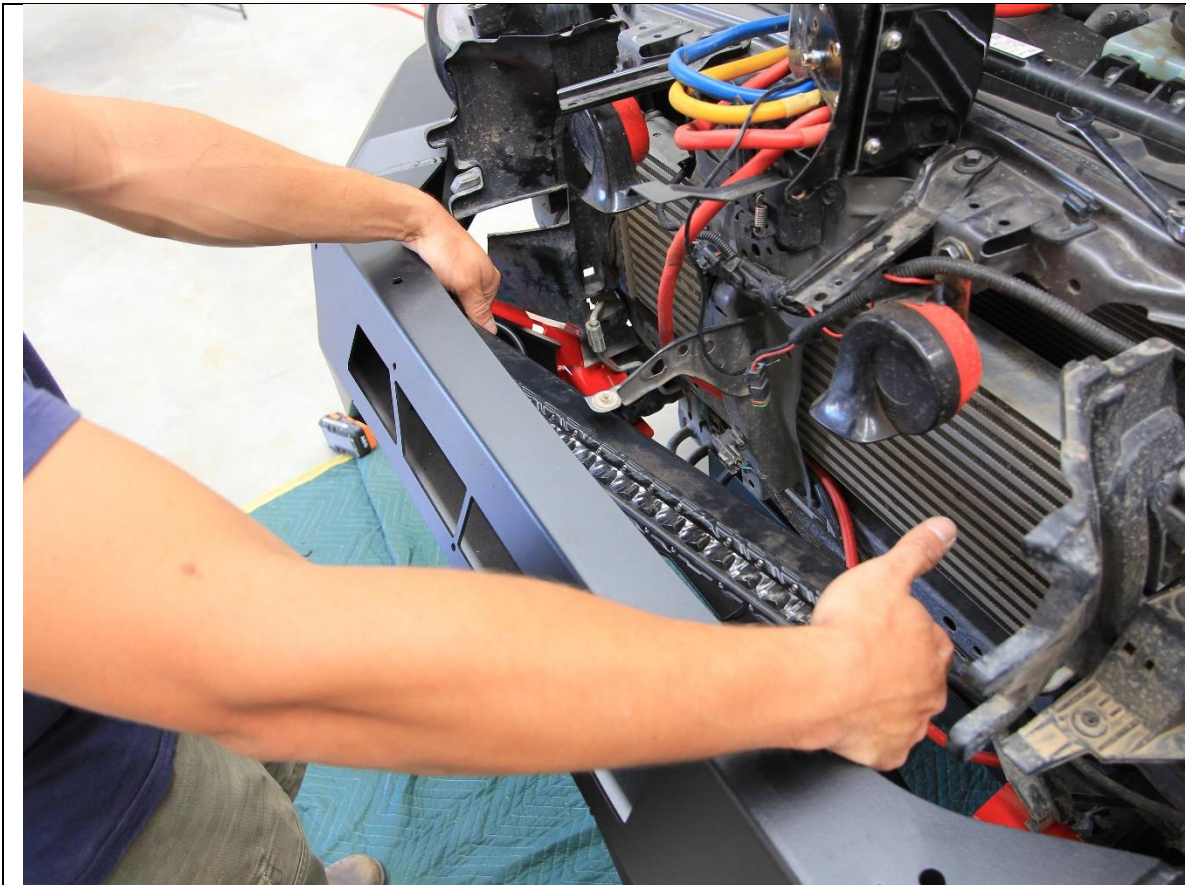
37. Fit Number Plate to number plate flip, using M5 fasteners supplied with number plate flip

TOOLS REQUIRED

4mm Hex Key
10mm Socket
10mm Spanner

FASTENERS

4x M6x16 Button Head
4x M6 Black Flat Washer
4x M6 Flange Nut



38. If fitting a light bar to the center section of the bar, do so at this stage.

39. Assemble the STEDI Light bar with mounting feet in the outside position. Fit to bar from above through vehicle grille opening. Secure with hardware supplied with the light bar.

Note if not fitting a STEDI light bar, universal light bar mounting kit may be required.

40. If not fitting a light bar, fit cover plate to front of bar using 5x M6x16 button head bolts, flat washers and flange nuts.

TOOLS REQUIRED

5mm Hex Key
13mm Spanner

FASTENERS

(if fitting cover plate)
5x M6x16mm Button head bolts
5x M6 Flat Washer
5x M6 Flange Nuts



41. If re-fitting factory fog lamps, fit the fog lamps to the supplied fog lamp brackets using the M6x16 screws and Flange nuts provided.
42. Fit the fog lamp brackets, to the light mesh panels using 3x M8x16 Button head bolts,
43. If fitting own lamps in light mesh, fit now using slots on panel, and hardware provided with lights.
44. Repeat for both sides of vehicle.

TOOLS REQUIRED

4MM Hex Key
10mm Spanner

FASTENERS

(if fitting fog lamp)
4x M6x16mm screw
4x M6 Flange Nuts

3x M8x16mm Button head bolts
3x M8 Flat Washer
3x M8 Flange Nuts

Per side

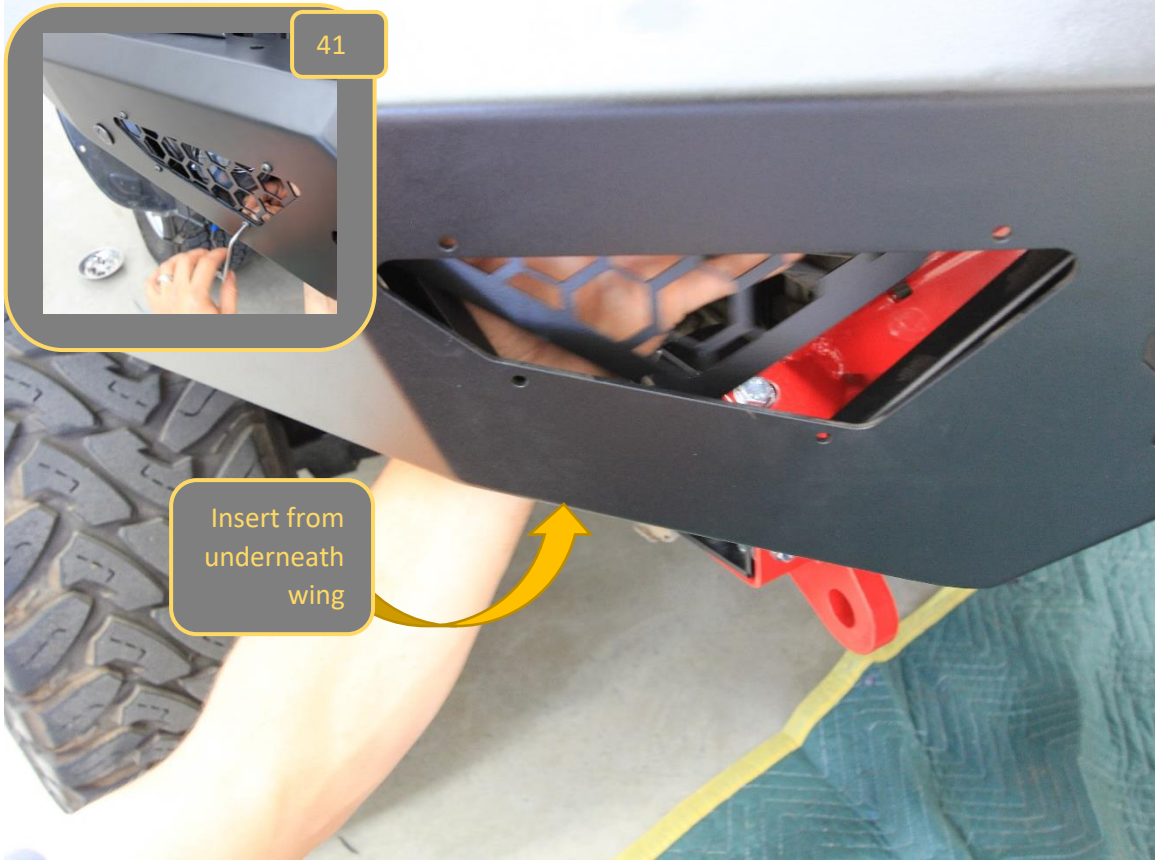
	
<p>45. Fit light mesh panels to the bar. Position the panel from underneath the bar and align with the mounting holes in the wing. Secure with 4x M6x16mm Button head bolts and M6 Flange Nuts</p> <p>46. Repeat for other side of vehicle.</p> <p>47. Reconnect fog lights, or additional driving lights, depending on what was fitted.</p>	<p>TOOLS REQUIRED 4mm Hex Key 10mm Spanner</p>
	<p>FASTENERS 4x M6x16mm Button head bolt 4x M6 Flange Nut</p>

IMAGE REQUIRED GRILLE AREA

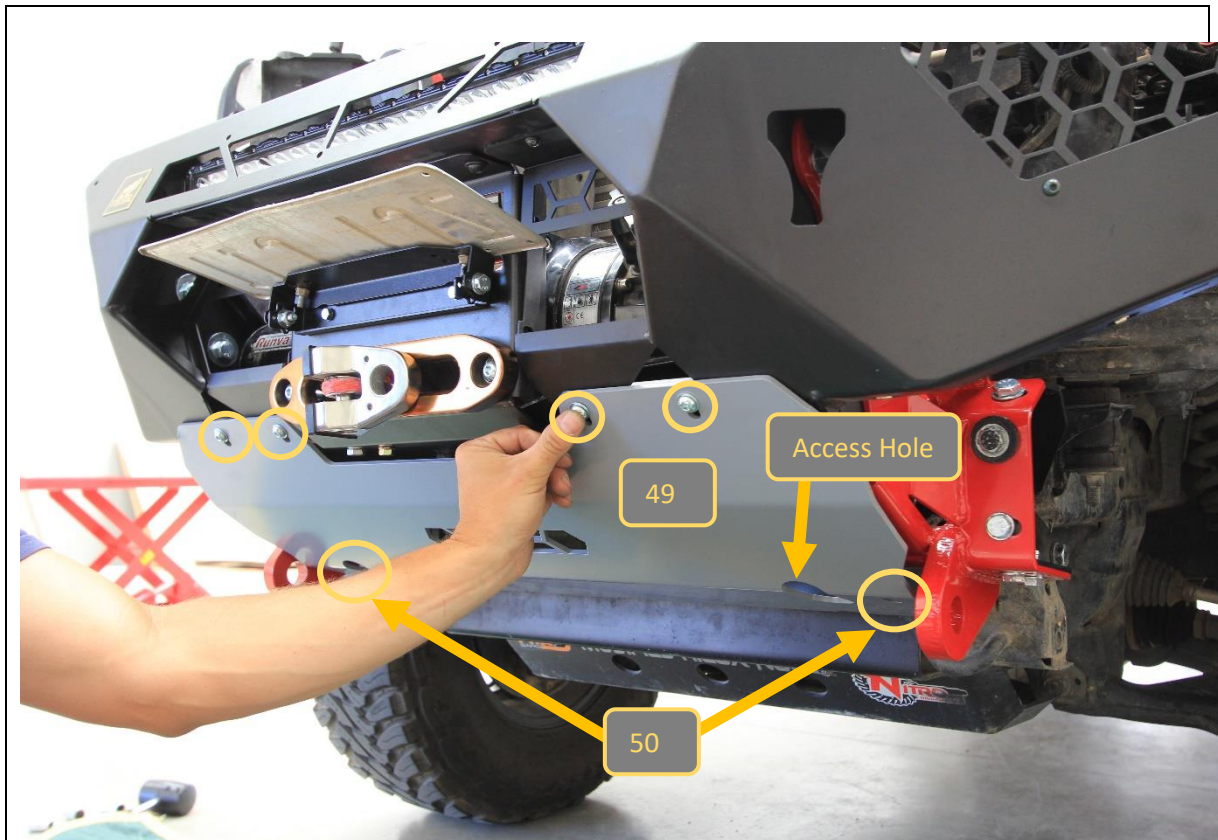


48. For Pre facelift models, Fit grille securing bracket to grille. Insert bracket over factory clips in center of grille, until audible "Click" is heard.
49. Re-Fit grille to vehicle.
50. Secure grille at top using original bolts, removed earlier.
51. Secure bottom of grille Bar, Using grille securing bracket. To bolt to the center of the bar pan.

TOOLS REQUIRED
10mm Spanner & Socket

FASTENERS
1x M6x16 Button head bolt
1xM6 Flat washer
1x M6 Flange nut

Factory grille Bolts



52. Fit bash plate to vehicle.

53. First secure the top of the bash plate to the bottom of bar, through Shim plate, Mesh panel, then bar itself. Secure with M8x20 Button head bolts, Flat washer and Flange Nuts.

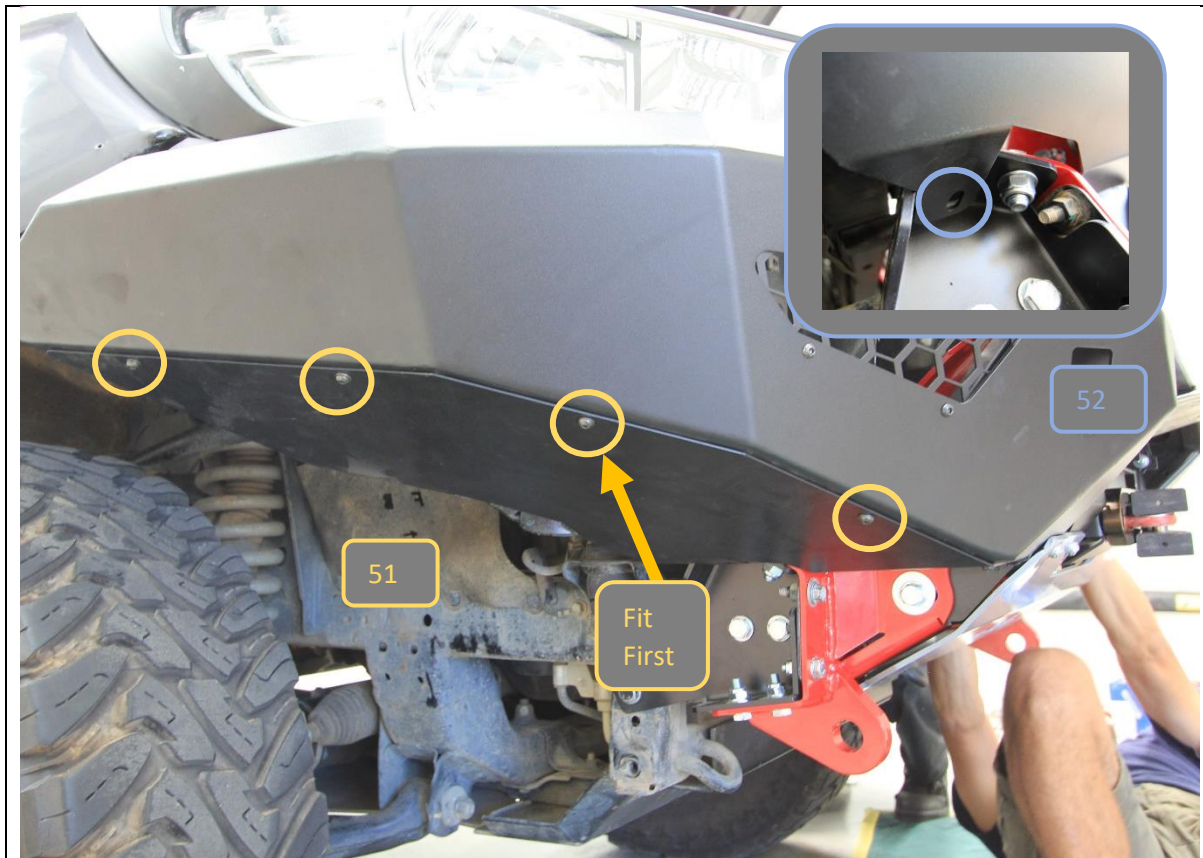
54. Secure bottom of Bash plate to mounts M10x30mm Button head Bolt, Flat washer and M10 Flange Nut. Insert nut through access hole in bash plate as shown.

TOOLS REQUIRED

5mm Hex
6mm Hex
13mm Spanner & Socket
15mm Spanner

FASTENERS

4x M8x20 Button head Bolt
4xM8 Flat washer
2x M8 Flange nut
2x M10x30 Button head Bolt
2x M10 Flat washer
2x M10 Flange nut



55. Fit side under panels to bar and secure with 4x M6x16 Button head bolts and M6 Flat washers, into M6 cage nuts fitted earlier.

Fitting center bolt first will make it easier to align panel to bar.

56. Secure the back corner of underpanel to mount using M8x20 Hex bolt, Flat washer and M8 Flange Nut.

57. Repeat for other side of vehicle.

TOOLS REQUIRED

4mm Hex Key
13mm Spanner / Socket

FASTENERS

8x M8x20 Button head bolt
8x M6 Flat Washer
2xM8x20 Hex head
2xM8Flat Washer
2x M8 Flange nut



58. Mark where wheel arch liner intersects with side under panel with paint pen or other marker.
59. Create line offset approximately 20mm below intersection point.
60. Trim wheel arch liner to this line using utility Knife.
61. Insert wheel arch liner behind flange on side under panel.

TOOLS REQUIRED
Marker
Utility Knife

FASTENERS



62. Mark where wheel arch liner intersects with side under panel with paint pen or other marker.
63. Create line offset approximately 20mm below intersection point.
64. Trim wheel arch liner to this line using utility Knife.
65. Insert wheel arch liner behind flange on side under panel.
66. Put tools away and you are done!

TOOLS REQUIRED

Marker
Utility Knife

FASTENERS

8x M8x20 Button head bolt
8x M6 Flat Washer
2xM8x20 Hex head
2xM8Flat Washer
2x M8 Flange nut



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