

INSTALLATION GUIDE

BOCAR BULLBAR - BPEPWBHIL1820

Suits: TOYOTA HILUX 2018+, 2020+

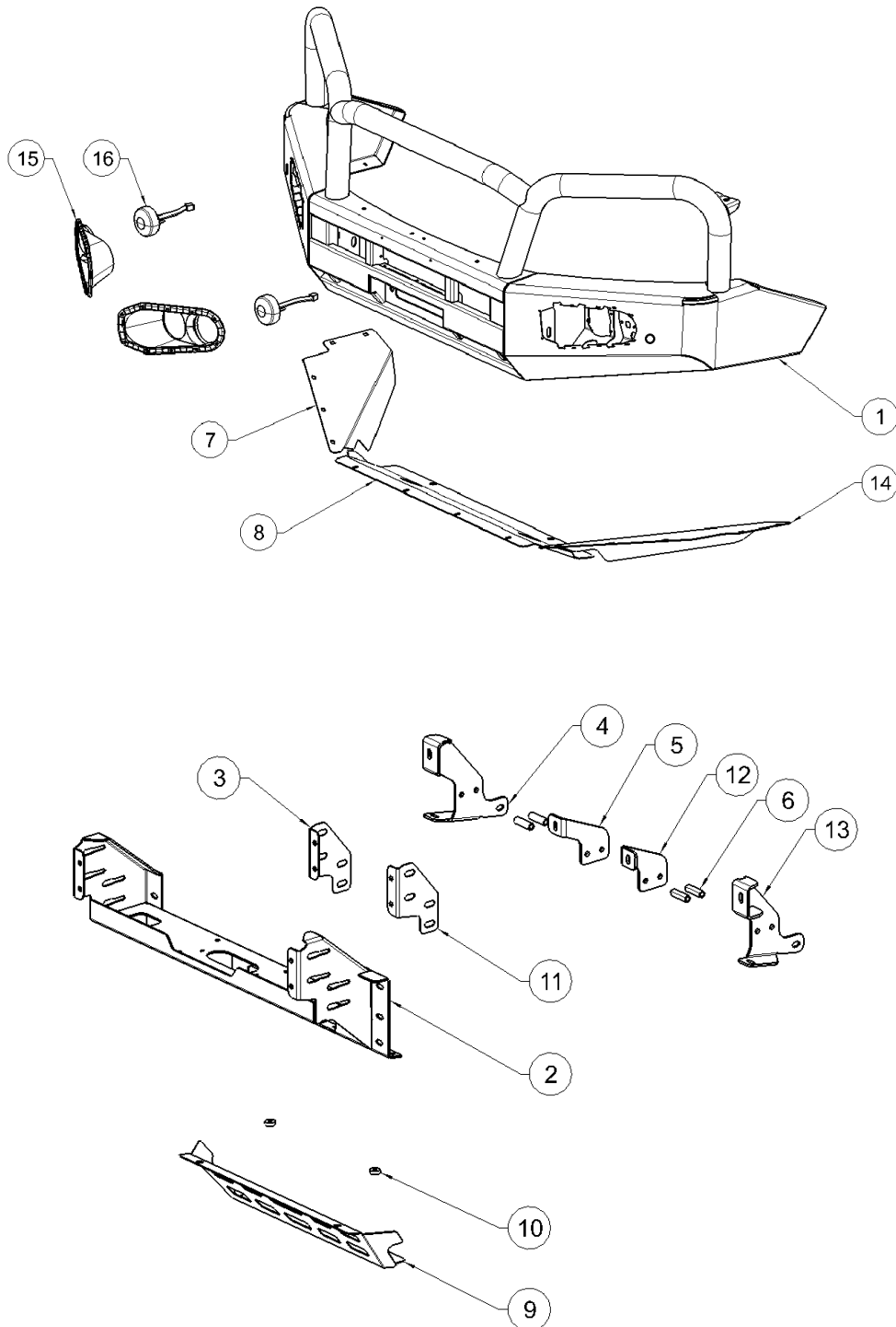


<http://www.bocar.com.au/products/Bullbars/BPEPWBHIL1820>

Important Notes:

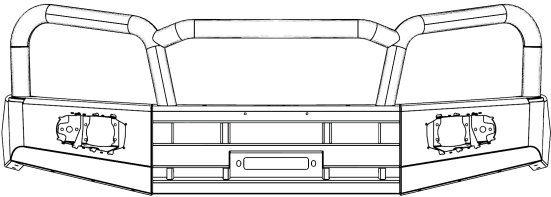
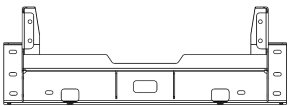
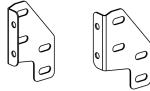
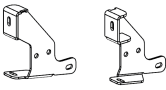
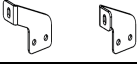

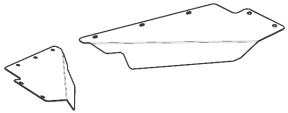
- Read instructions completely before commencing fitment.
- Additional fitting kits may be required for vehicles fitted with parking sensors, Radar, winch etc. Consult website or retailer.
- (a) Do not attach VFPS to the vehicle using anchorages not intended for this purpose (e.g. engine mountings bolts).
- (b) Do not use this product for any vehicle make or model, other than those specified by the VFPS manufacturer.
- (c) Do not remove the plaque or label from the VFPS.
- (d) Do not modify the structure of the VFPS in any way.

Bolt tensions	Dia. (mm)	Nm
All bolt tensions are as follows unless otherwise specified.	5	5
	6	9
	8	22
	10	44
	12	77

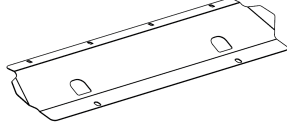
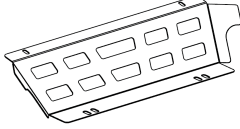

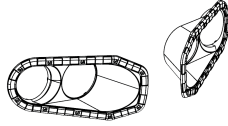
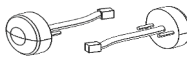

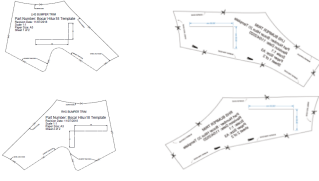
















ITEM	PART NAME	QTY	PART NO.
1	BOCAR HILUX BUMPER	1	BOCB0072
2	BOCAR HILUX BAR MOUNT	1	BOCB0056
3	CLAMPING ANGLE RH	1	BOCB0057R
4	CHASSIS MOUNT RH	1	BOCB0060R
5	INSIDE CHASSIS BRACKET RH	1	BOCB0061R
6	SPACER	4	BOCB0062
7	WING GUARD RH	1	BOCB0063R
8	CENTER GUARD	1	BOCB0064
9	UNDERBODY GUARD	1	BOCB0065
10	SPACER WASHER	2	BOCB0066
11	CLAMPING ANGLE LH	1	BOCB0057L
12	INSIDE CHASSIS BRACKET LH	1	BOCB0061L
13	CHASSIS MOUNT LH	1	BOCB0060L
14	WING GUARD LH	1	BOCB0063R
15	INDICATOR AND FOG SHROUD	2	BOCG0002
16	BOCAR INDICATOR	2	
*17	WARNING LABEL	2	
18	BUMPER TRIM TEMPLATE 2018+	1	
	BUMPER TRIM TEMPLATE 2020+	1	
*19	BOCAR LOGO STICKER	1	
20	16mm PARKING SENSOR BLANKS	2	K0663
21	PARKING SENSOR STICKER	2	F-5570



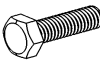


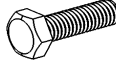



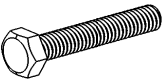

ITEM	PART NAME	QTY	PART NO.
22	M5 X 20mm SOCKET HEAD CAP SCREW	20	
23	M5 FLANGE NUT	20	
24	M5 SPRING WASHER	20	
25	M6 CAGE NUT	14	
26	M6 SPRING WASHER	14	
27	M6 X Ø12.5mm FLAT WASHER	14	
28	M6 X Ø18mm FLAT WASHER	4	
29	M6 NYLOC NUT	2	
30	M6 X 1.0 X 20mm HEX HEAD BOLT	16	
31	M8 X 1.25 X 30mm HEX HEAD BOLT	2	
32	M8 X 1.25 NYLOC NUT	2	
33	M8 X 1.25 X 40mm HEX HEAD BOLT	2	
34	M8 SPRING WASHER	2	
35	M8 X Ø19mm FLAT WASHER	6	
36	M10 X 1.25 X 30mm HEX HEAD BOLT	12	
37	M10 X Ø30mm FLAT WASHER	24	
38	M10 NYLOC NUT	12	
39	M12 X 1.25 X 35mm HEX HEAD BOLT	14	
40	M12 X Ø32 X 2.5mm FLAT WASHER	36	
41	M12 NYLOC NUT	16	
42	M12 SPRING WASHER	2	
43	M12 X 1.25 X 100mm HEX HEAD BOLT	4	

ITEM	IMAGES
1	
2	
3, 11	
4, 13	
5, 12	
6	
7, 14	

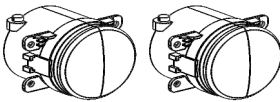
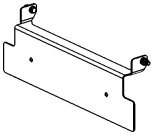
Note : *** Item 17 & 19 are fitted by factory. ***

ITEM	IMAGES
8	
9	
10	2 x  SPACER WASHERS
15	
16	
*17	2 x  WARNING LABEL
18	 BOCAR HILUX BUMPER TRIM TEMPLATES

ITEM	IMAGES	
**19	1 x 	BOCAR LOGO STICKER
20	2 x 	16mm PARKING SENSOR PLUGS
22	20 x 	M5 X 20MM SOCKET HEAD-CAP SCREW
23	20 x 	M5 FLANGE NUT
24	20 x 	M5 SPRING WASHER
25	14 x 	M6 CAGE NUT
26	14 x 	M6 SPRING WASHER
27	14 x 	M6 X Ø12.5mm FLAT WASHER
28	4 x 	M6 X Ø18mm FLAT WASHER
29	2 x 	M6 NYLOC NUT
30	16 x 	M6 X 1.0 X 20mm HEX HEAD BOLT
31	2 x 	M8 X 1.25 X 30mm HEX HEAD BOLT
32	2 x 	M8 X 1.25 NYLOC NUT
33	2 x 	M8 X 1.25 X 40mm HEX HEAD BOLT

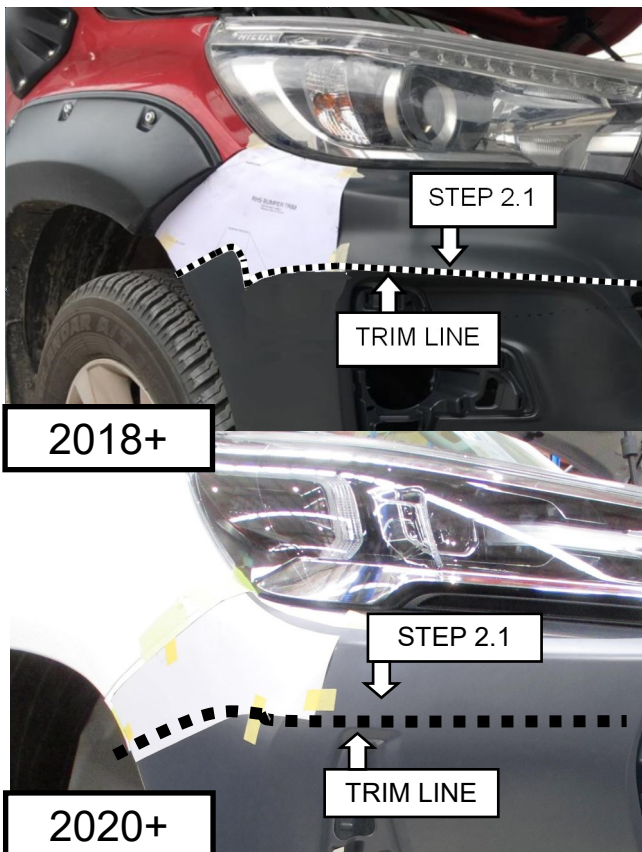
ITEM	IMAGES	
34	2 x 	M8 SPRING WASHER
35	6 x 	M8 X Ø19mm FLAT WASHER
36	12 x 	M10 X 1.25 X 30mm HEX HEAD BOLT
37	24 x 	M10 X Ø30mm FLAT WASHER
38	12 x 	M10 NYLOC NUT
39	14 x 	M12 X 1.25 X 35mm HEX HEAD BOLT
40	36 x 	M12 X Ø32 X 2.5mm FLAT WASHER
41	16 x 	M12 NYLOC NUT
42	2 x 	M12 SPRING WASHER
43	4 x 	M12 X 1.25 X 100mm HEX HEAD BOLT
21	2 x 	PARKING SENSOR HOUSING STICKER

Note : *** Item 17 & 19 are fitted by factory. ***

ADDITIONAL PART OPTIONS (Purchased separately)			
No.	ITEM NAME	PART NUMBER	IMAGES
1	LED Foglamp Set (BOCAR)	BPEPLEDFOG (4280300024)	
2	NUMBER PLATE MOUNT HINGED :Optional when winch fitted. Increased airflow.	BPEPKITLP01 (42803000030)	
3	WIRE HARNESS KIT :Required if vehicle not pre fitted with foglights	BPEPLEDFOGWIRE (4280300025)	

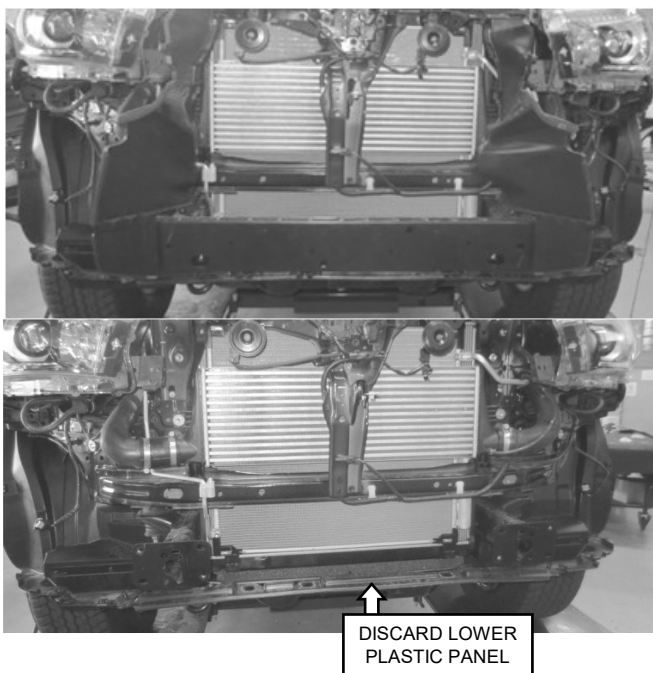
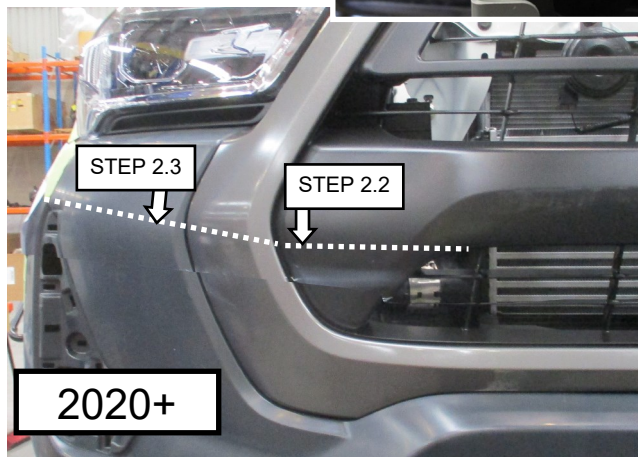
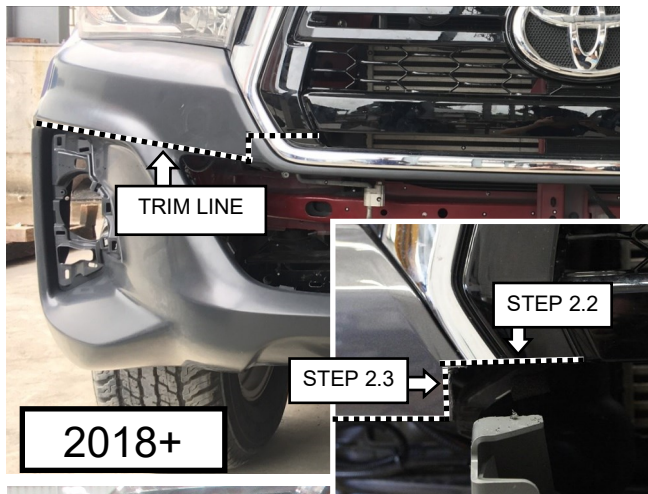


1. Before fitting, please check factory bumper and grill are compatible with your bull bar.



2. Cut out templates supplied, and attach to bumper, then mark trim line as shown with using the below process:.

2.1 Mark bumper trim line from template.



2018+ Model Only:

2.2 Mark a trim line following the underside of the horizontal member of the grille (above chrome strip) out to the contour edge shown on the bumper.

2.3 Mark trim line to vertically connect the .

Repeat this for the opposite side of the vehicle.

2020+ Model Only:

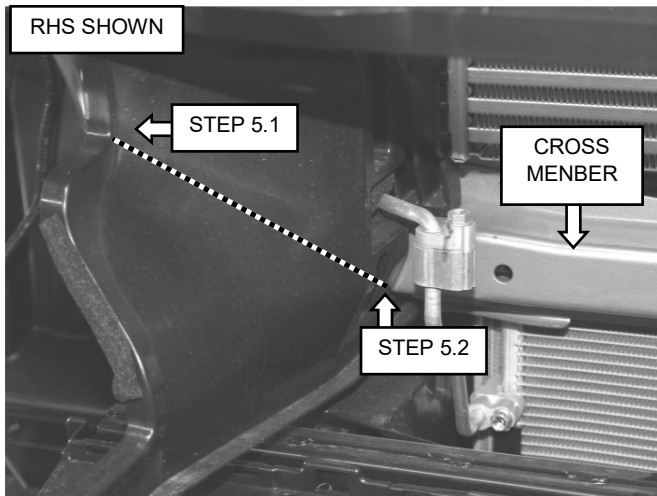
2.2 Mark a trim line following the underside of the horizontal member of the grille out to the contour edge shown on the bumper.

2.3 Mark a line from this point to the template edge.

3. Remove and retain factory bumper, grille and radiator shroud.

Trim bumper and grille as marked from step 2, then de-burr and clean edges to refit to vehicle using original fasteners in remaining positions.

4. Remove and discard the front intrusion beam, lower plastic panel and all plastic in front and below beam. Retain original bolts for re-use.

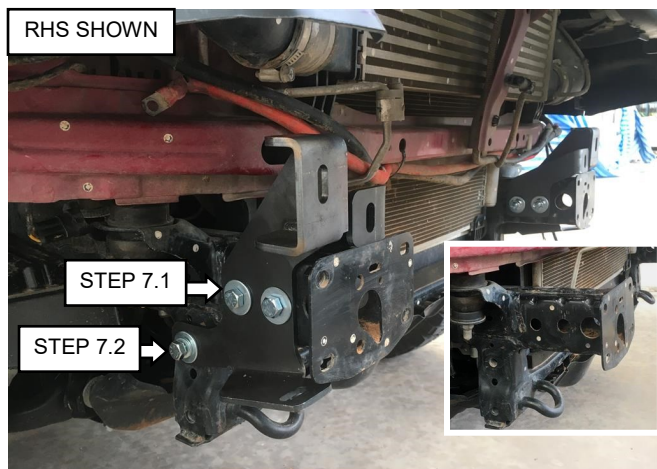


5. Mark the lower air guide trim line using the below process:

- 5.1 Mark a point in the corner of the horizontal & vertical faces as shown.
- 5.2 Mark a point at the front lower corner of the cross member.
- 5.3 Join the two points with a straight line.

6. Trim the lower air guide along the lines, then de-burr and clean edges.

Repeat this for the opposite side of the vehicle.



7. Install chassis mount (RH) & inside chassis bracket (RH) on the outer face & inner face of the chassis rail with the process below :

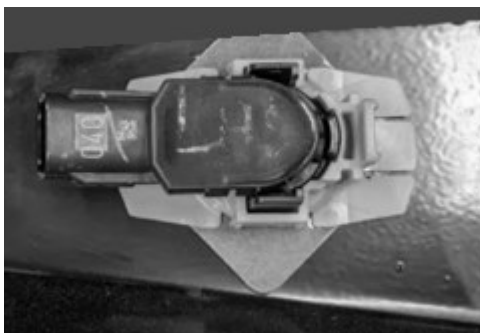
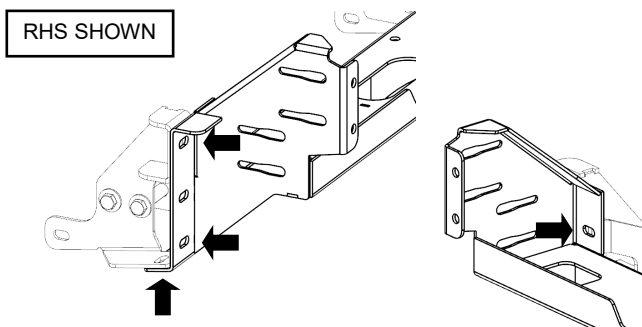
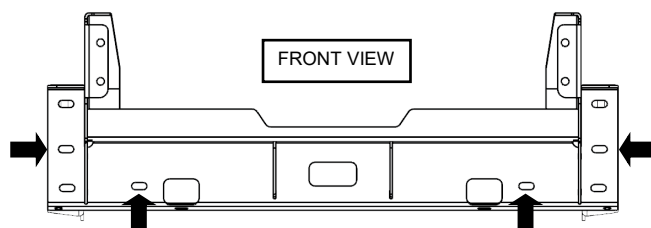
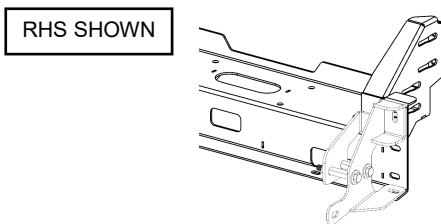
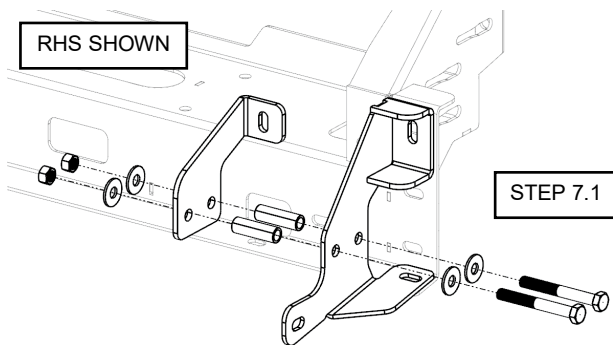
7.1 Position the Inserted spacers in the respective holes, then secure it in place, using :

- M12 x 1.25 x 100mm hex bolts (2)
- M12 x Ø32mm flat washers (4)
- M12 x 1.25 nyloc nuts (2)

7.2 Position the chassis mount (RH) secured with using :

- M12 x 1.25 x 35mm hex bolt (1)
- M12 x Ø32mm flat washer (1)
- M12 spring washer (1)

Repeat this for the opposite side of the vehicle.



8. Install winch frame (bar mount) on the vehicle chassis rail ends, centralize, then tighten it in place, using original bolts from intrusion beam in original position as indicated.

9. Secure the winch frame with using fasteners below :

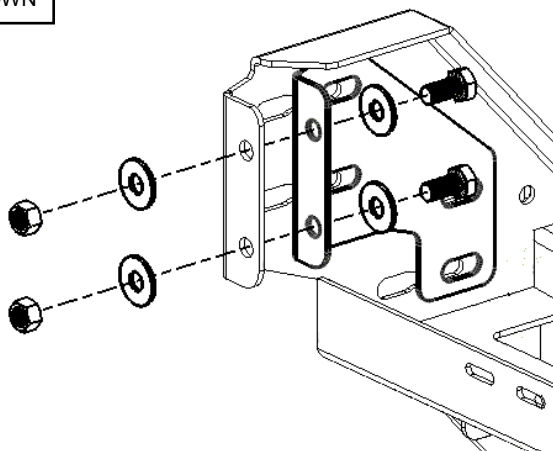
- M10 x 1.25 x 30mm hex bolts (4)
- M10 x Ø30mm flat washers (8)
- M10 x 1.25 nyloc Nuts (4)

Repeat this for the opposite side of the vehicle.

10. Noting orientation carefully remove OE parking sensor and housing from the bumper.

- Attach to the FPS using the Housing sticker in the orientation as noted.
- Fit Blanking plug if required.

RHS SHOWN



11. Fit clamping angle bracket to inboard face of the winch frame using :

- M12 x 1.25 x 35mm hex bolts (2)
- M12 flat washers (4)
- M12 x 1.25 nyloc nuts (2)

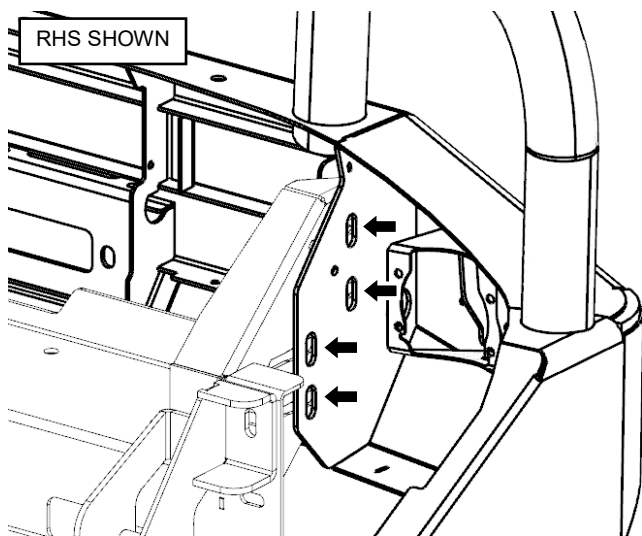
Align slots before tightening.

Repeat this for the opposite side of the vehicle.

If winch is being installed, refer to winch installation instructions.

For fog-lamp, please refer to supplied instructions.

RHS SHOWN



12. Fit bull bar to winch frame, then loosely secure it in place using :

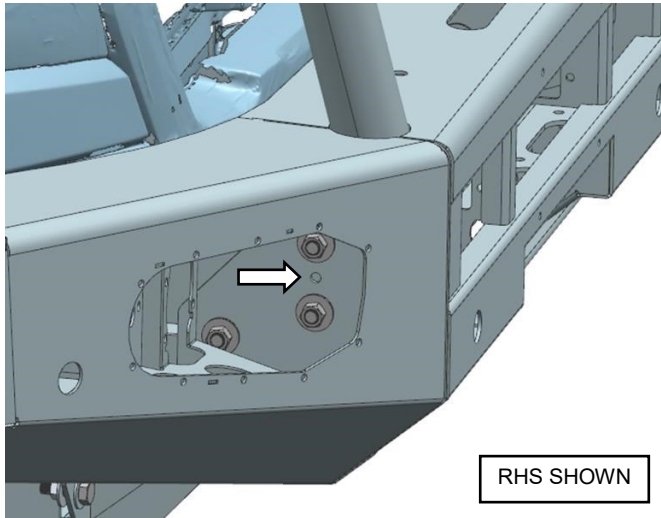
- M12 x 1.25 x 35mm hex bolts (4)
- M12 flat washers (8)
- M12 x 1.25 nyloc nuts (4)

Repeat this for the opposite side of the vehicle.

RHS SHOWN



13. Align the bull bar to vehicle so that the guard clearance is 20 to 25 mm, and wing is aligned with wheel arch, then tighten all bolts.



14. Once bull bar is aligned with vehicle and bolts tightened, drill Ø8.5 mm through pinning hole between bar mount and clamping angle as indicator, and then secure using :

- M8 x 1.25 x 30mm hex bolt (1)
- M8 x Ø19mm flat washers (2)
- M8 x 1.25 nyloc nut (1)

Repeat this for the opposite side of the vehicle.



15. Install lamps to bullbar. Indicator from front and fog light (optional) from rear using supplied fasteners. Patch Indicator/park wiring into vehicle lamp wiring loom. Plug in foglamps if installed. Check all lights operate correctly.

Fit plastic lamp housing to bull bar and secure it using :

- M5 x 20mm socket head bolts (10)
- M5 flange nuts (10)
- M5 spring washer (10)

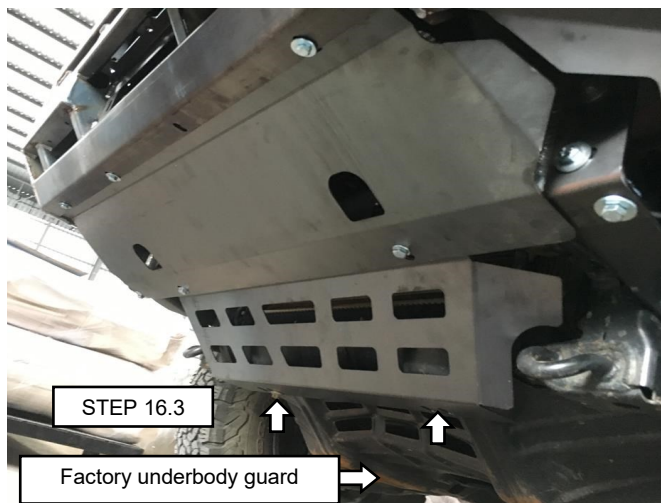
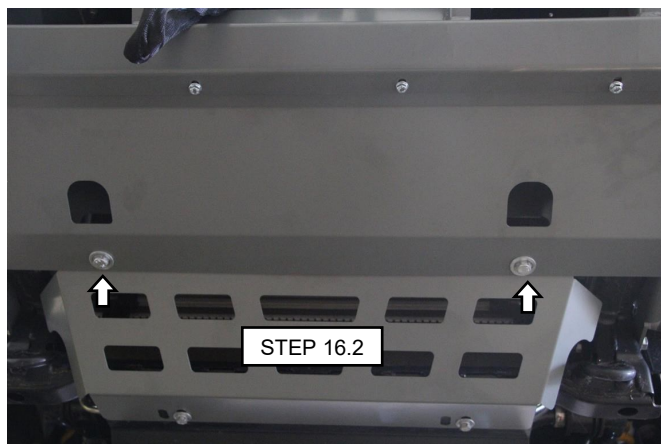
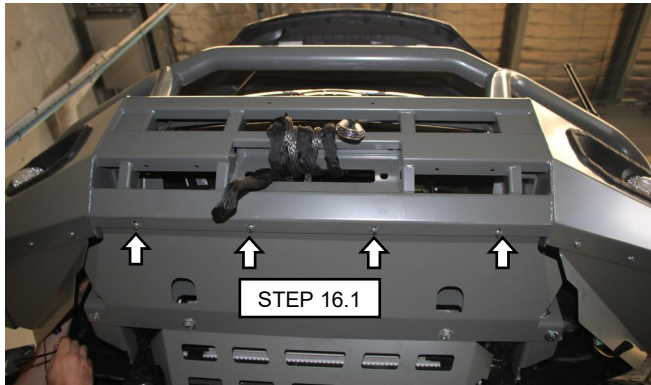
4	BLACK	GND
3	BLUE	PL (+)
2	GREEN	IND (+)
1	YELLOW	DRL (+)
PIN NO.	WIRE COLOR	SIGNAL



16. Fit wing guard to bull bar, and secure it with supplied fasteners, then neatly trim plastic guard liners to suit. Use zip ties to secure guard liner if required.

- M6 x 1.0 x 20mm hex head bolts (5)
- M6 cage nuts (5)
- M6 Ø12.5 mm flat washers (5)
- M6 spring washer (5)

Repeat steps 15 to 16 for the opposite side of the vehicle.



17. Fit center guard to bull bar, then fit supplied underbody guard to the inner rear of the winch frame with using the process below:

17.1 Secure center guard with fasteners below.

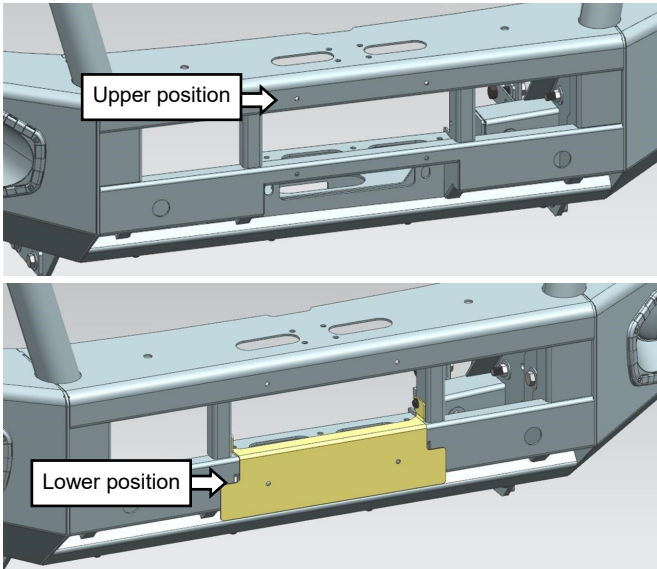
- M6 x 1.0 x 20mm hex head bolts (4)
- M6 cage nuts (4)
- M6 x Ø12.5 mm flat washers (4)
- M6 spring washer (4)

17.2 Fit underbody guard to inner face at lower rear of the winch frame, then secure it in place with using fasteners below.

- M6 x 1.0 x 20mm hex head bolts (2)
- M6 x 1.0 nyloc nuts (2)
- M6 x Ø18mm flat washers (4)

17.3 Secure underbody guard to factory underbody guard with fasteners below.

- M8 x 1.25 x 40mm hex head bolts (2)
- M8 spring washers (2)
- M8 x Ø19mm flat washers (2)
- Spacer washers (2)



18. Fit the number plate to bull bar.

- In upper position, or lower mounting position with the optional hinged mount as shown.

19. Ensure that all fasteners are tightened and that no wiring or vehicle components are crushed or can rub and chafe.

20. Provide 'product care and information' sheet on next page to customer.

PRODUCT CARE & INFORMATION

Customer copy

Corrosion Protection Tips –

- Going on an adventure! Be sure to rinse all areas and remove any sand, mud or debris in and around any areas that can catch this type of matter.
- Going to the beach! Make sure to rinse all salt water and sand off. To improve the longevity and life of this product, be very thorough with fresh water and a sponge.

Nuts and Bolts –

- At Bocar we do not get to experience your adventures or service your vehicle, so be sure to regularly check all nuts and bolts, especially after a large Off Road trip or regular use on Civil, Mining and construction sites.

Love Care and Attention –

- Planning to drive in a salty environment! If so, spray all fasteners with a Lanolin or WD40 protectant for longevity.
- If you spot a deep scratch touch up with paint to help prevent rust and inhibit corrosion.
- Regularly Wash & Dry the product the same as your vehicle using normal car wash to maintain appearance.

Modifying Your Vehicle –

- Modifications to your vehicle involves some risk, all care has been taken to test driver aids so they work as the vehicle manufacturer intended. There may be the need to re-calibrate after fitment by the vehicle manufacturer. As the owner of your vehicle the driver remains, responsible for the vehicle at all times when driving.
- Check and re-tighten any components after your first adventure. Regular up keep will help you get the most out of your Genuine Bocar Product and your pride and joy.

Warranty –

- 2yr/40,000km. Warranty conditions apply. Our goods come with consumer guarantees that cannot be excluded under the Australian Consumer Law. Our warranty does not limit and may not exceed your rights under those guarantees. For full details on our warranty please refer to www.bocar.com.au/warranty