

INSTALLATION GUIDE

BOCAR BULLBAR – BPEPWBCOLDM

Suits: HOLDEN COLORADO 07/16+ & ISUZU D-MAX 01/17+



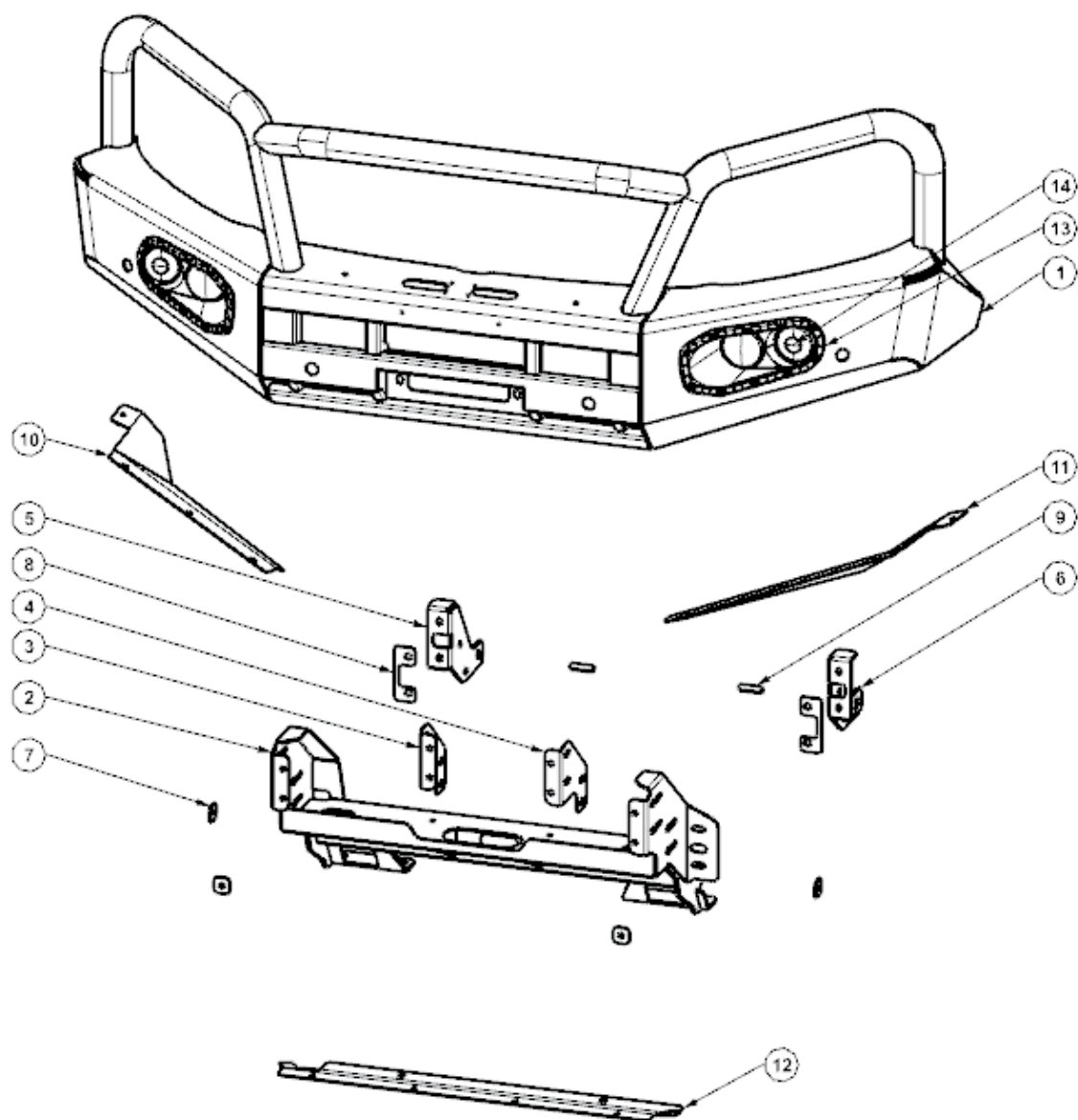
<http://www.bocar.com.au/products/Bullbars/BPEPWBCOLDM>



Important Notes:

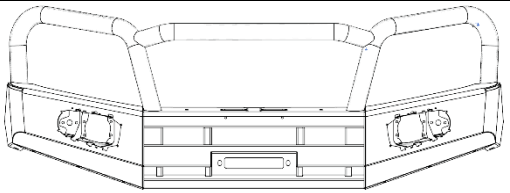
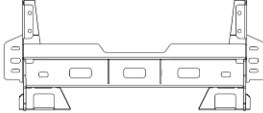
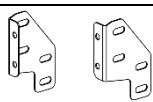
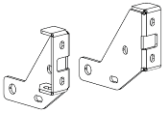

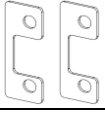
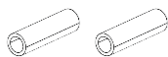
- Read instructions completely before commencing fitment.
- Additional fitting kits may be required for vehicles fitted with parking sensors, Radar, winch etc. Consult website or retailer.
- Bocar and its affiliated companies are not responsible for any damage that may occur to you or your vehicle during the installation of these products.
 - * Electrical system damage may be possible due to incorrect wiring or method and is the responsibility of the person fitting.
 - * Note: Incandescent test lamps are not recommended as damage to vehicle electronics is possible.
 - * Please consult an auto electrician if you are not comfortable with modifying the vehicles electrical system.
- (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.

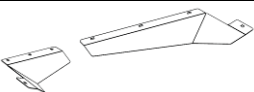
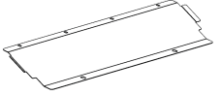
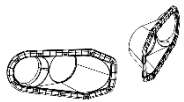
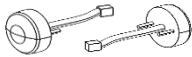


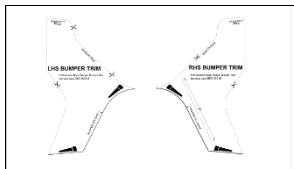
Bolt tensions	Dia. (mm)	Nm
All bolt tensions are as follows unless otherwise specified.	5	5
	6	9
	8	22
	10	44
	12	77





















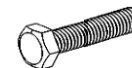


ITEM	PART NAME	QTY	PART NO.
1	BOCAR COLORADO BUMPER	1	
2	BOCAR COLORADO BAR MOUNT	1	
3	CLAMPING ANGLE RH	1	
4	CLAMPING ANGLE LH	1	
5	CHASSIS MOUNT RH	1	
6	CHASSIS MOUNT LH	1	
7	SPACER PLATE	6	
8	3mm SPACER PLATE	2	
9	SPACER	2	
10	WING GUARD RH	1	
11	WING GUARD LH	1	
12	CENTER GUARD	1	
13	INDICATOR AND FOG SHROUD	2	BOCG0002
14	BOCAR INDICATOR	2	
*15	WARNING LABEL	2	
*16	BOCAR LOGO STICKER	1	
17	COLORADO BUMPER TRIM TEMPLATE	1	
18	M5 X 20mm SOCKET HEAD CAP SCREW	20	
19	M5 FLANGE NUT	20	

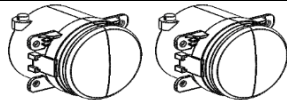
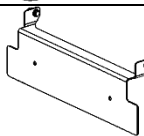
ITEM	PART NAME	QTY	PART NO.
20	M6 CAGE NUT	12	
21	M6 SPRING WASHER	12	
22	M6 X Ø12.5mm FLAT WASHER	12	
23	M6 X 1.0 X 20mm HEX HEAD BOLT	12	
24	M8 X 1.25 X 30mm HEX HEAD BOLT	4	
25	M8 X 1.25 NYLOC NUT	4	
26	M8 X Ø19mm FLAT WASHER	8	
27	M10 x 1.25 x 30mm HEX HEAD BOLT	2	
28	M10 SPRING WASHER	8	
29	M10 x 1.25 x 40mm HEX HEAD BOLT	12	
30	M10 x 1.25 x 80mm HEX HEAD BOLT	2	
31	M10 x Ø30mm FLAT WASHER	24	
32	M10 x 1.25 NYLOC NUT	8	
33	M12 X 1.25 X 35mm HEX HEAD BOLT	12	
34	M12 X Ø32 X 2.5mm FLAT WASHER	24	
35	M12 NYLOC NUT	12	
36	M14 x 1.5 x 45mm HEX HEAD BOLT	2	
37	9/16" x Ø1 1/8" FLAT WASHER	4	
38	M14 x 1.5 NYLOC NUT	2	

ITEM	IMAGES
1	
2	
3, 4	
5, 6	
7	
8	
9	

ITEM	IMAGES
10, 11	
12	
13	
14	
*15	2 x  WARNING LABEL
*16	1 x  BOCAR LOGO STICKER
17	 TRIM TEMPLATE

Note : *** Item 15 & 16 are fitted by factory. ***

ITEM	IMAGES	
18	20 x	 M5 X 20MM SOCKET HEADCAP SCREW
19	20 x	 M5 FLANGE NUT
20	12 x	 M6 CAGE NUT
21	12 x	 M6 SPRING WASHER
22	12 x	 M6 X Ø12.5mm FLAT WASHER
23	12 x	 M6 X 1.0 X 20mm HEX HEAD BOLT
24	4 x	 M8 X 1.25 X 30mm HEX HEAD BOLT
25	4 x	 M8 X 1.25 NYLOC NUT
26	8 x	 M8 X Ø19mm FLAT WASHER
27	2 x	 M10 X 1.25 X 30mm HEX HEAD BOLT
28	8 x	 M10 SPRING WASHER
29	12 x	 M10 X 1.25 X 40mm HEX HEAD BOLT
ITEM	IMAGES	
30	2 x	 M10 X 1.25 X 80mm HEX HEAD BOLT
31	24 x	 M10 X Ø30mm FLAT WASHER
32	8 x	 M10 X 1.25 NYLOC NUT
33	12 x	 M12 X 1.25 X 35mm HEX HEAD BOLT
34	24 x	 M12 X Ø32 x 2.5mm FLAT WASHER
35	12 x	 M12 NYLOC NUT
36	2 x	 M14 X 1.5 X 45mm HEX HEAD BOLT
37	4 x	 9/16" x Ø1 1/8" FLAT WASHER
38	4 x	 M14 x 1.5 NYLOC NUT

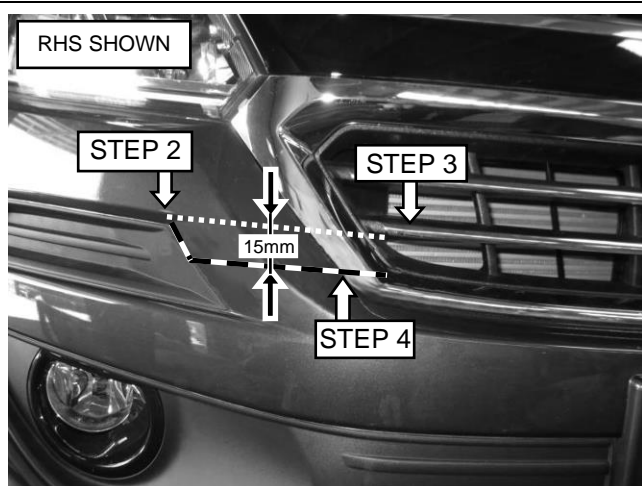
ADDITIONAL PART OPTIONS <i>(Purchased separately)</i>			
ITEM	ITEM NAME	PART NUMBER	IMAGES
1	LED FOGLAMP SET (BOCAR)	BPEPLEDFOG (4280300024)	
2	NUMBER PLATE MOUNT HINGED :Optional when winch fitted. Increased airflow.	BPEPKITLP01 (42803000030)	
3	WIRE HARNESS KIT :Required if vehicle not pre fitted with foglights	BPEPLEDFOGWIRE (4280300025)	N/A
4	BULL BAR PARKING SENSOR MOUNT KIT (x4) :Required if vehicle fitted with front parking sensors	BPESENKIT4	N/A



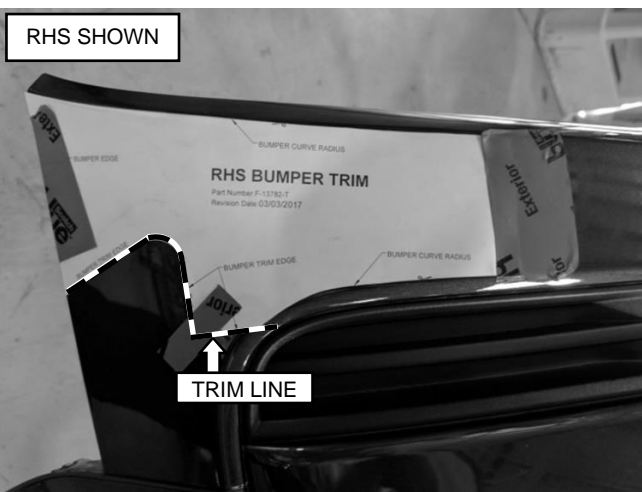
1. Before fitting, please check factory bumper and grill are compatible with your bull bar.

For Isuzu Dmax – Skip to step 7

Holden/Chevy Colorado - continue steps 2 to 6



2. Mark a point at the apex of the factory bumper contour as shown.
3. Draw a straight line from previous point marked to the lower corner of the spar (above chrome strip).
4. Measure and mark a bumper trim line 15mm down with parallel to marked line previously.
5. Mark trim line along with contour edge connected the point in step 2 to the end trim line as shown.



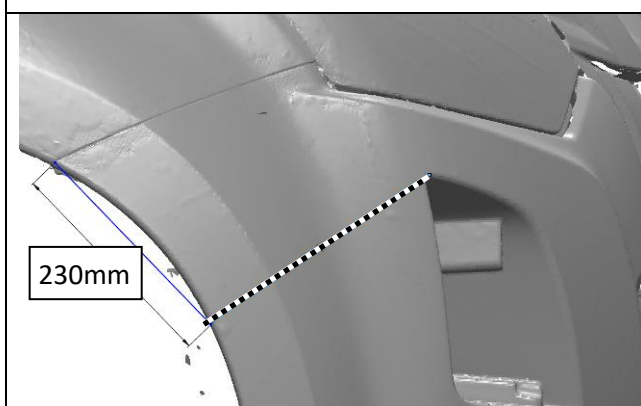
6. Cut out templates supplied, and attach it to bumper, then mark trim line as shown.

Repeat steps 2 to 6 for the opposite side of the vehicle.

Skip to Step 11

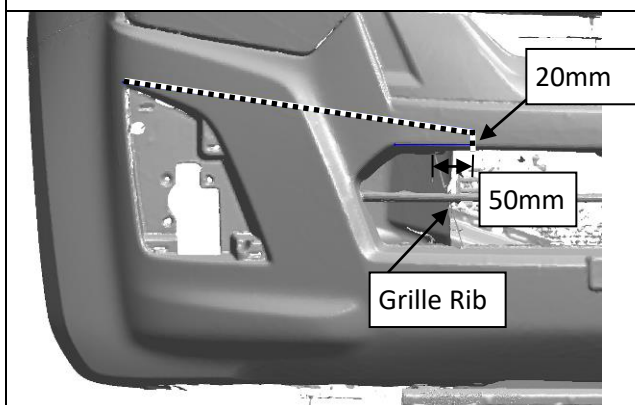


7. **Isuzu Dmax.** Remove foglights, covers or surrounds.



8. Mark 230mm down from the end of the bumper where it meets the wheel arch, to a point on the wheel arch.

9. Mark a line from this point to the top corner of the foglight recess.



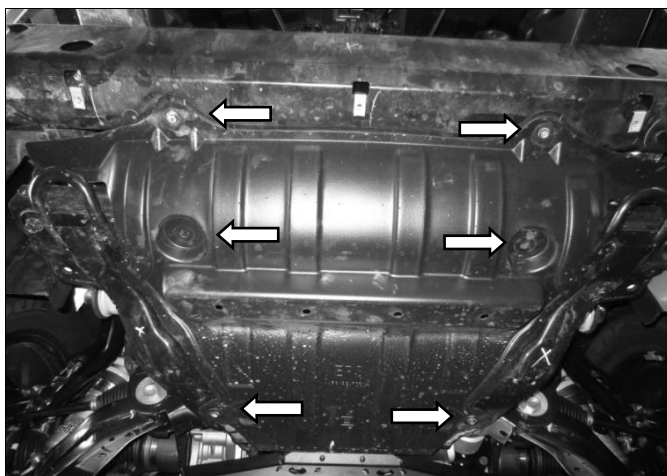
10. Mark a line from the end of the previous line to a point approximately 50mm inboard of the outer grille rib and 20mm up. Drop line down to bumper opening.



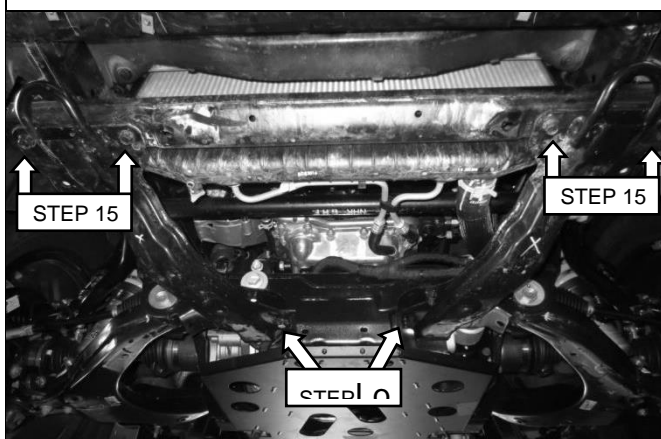
11. Remove and retain factory bumper, grille and radiator shroud.

12. Remove parking sensors and wiring if fitted noting sensor positions and plug directions.

13. Trim off lower part of the bumper as marked from previous steps, then de-burr and clean edges to refit to vehicle using original fasteners in remaining

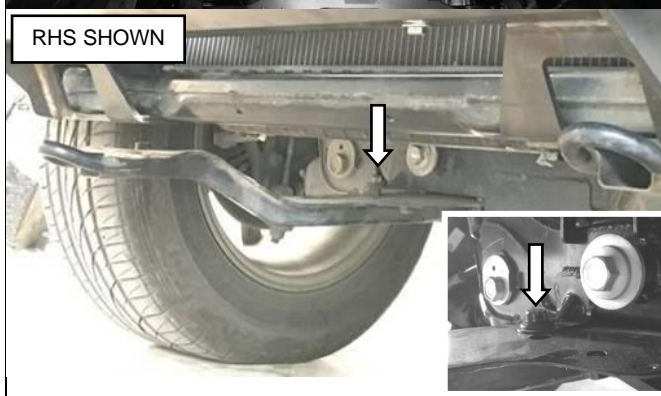


14. Remove and retain the steering guard from vehicle, retaining the fasteners (6) as shown for re-use.

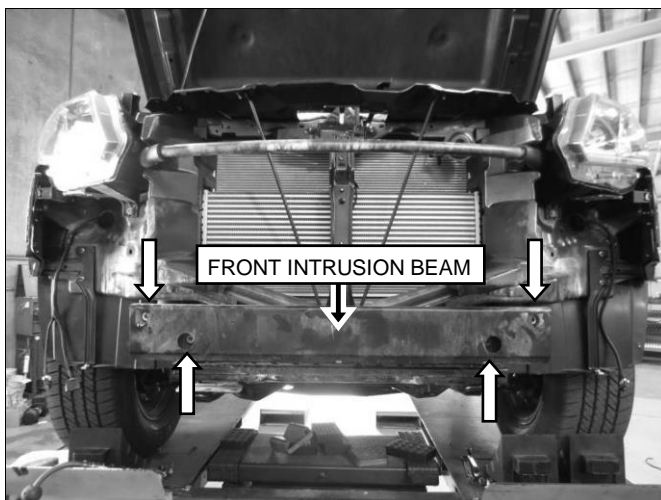


15. Remove and discard the fasteners (2) that are securing the tow points to the underneath of the chassis cross-member.

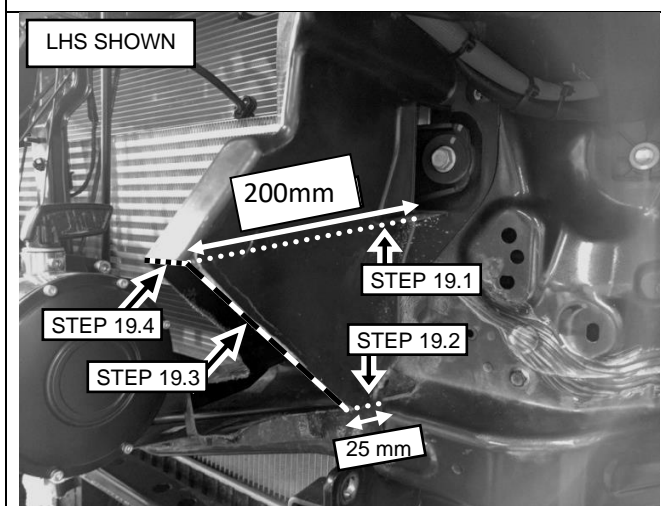
16. Loosen the indicated fasteners (2), but don't remove it, so as to allow the front of the tow point to drop slightly.



17. Loosen, but don't remove the indicated fasteners, so as to allow the front of the tow points to drop slightly.

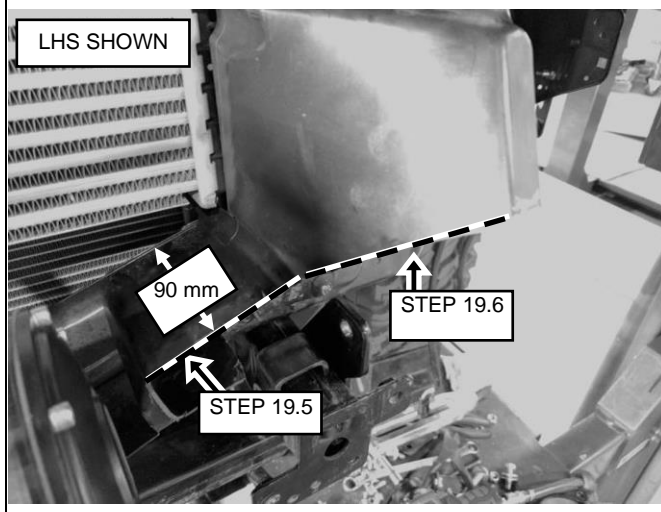


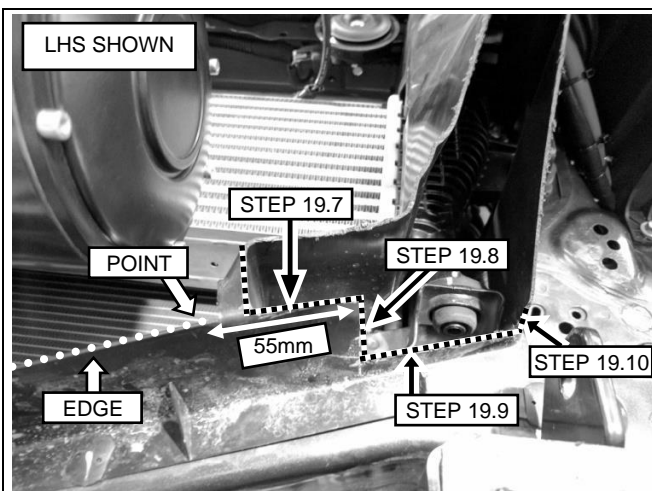
18. Remove and discard the front intrusion beam and the indicated fasteners (4).



19. Mark the air dam for trimming using the following process:

- 19.1 Mark a point 200mm out horizontally from the underside of the air dam outrigger.
- 19.2 Mark a point 25mm out horizontally from the topside of the body member.
- 19.3 Draw a straight line between the two points.
- 19.4 Draw a line horizontally cross the short face of the air dam, joining with the marked line previously.
- 19.5 Measure and make a straight line 90mm with parallel from the back edge of the air dam, as shown.
- 19.6 Joint the end of the lines marked in steps 19.4 & 19.5 with a straight line.





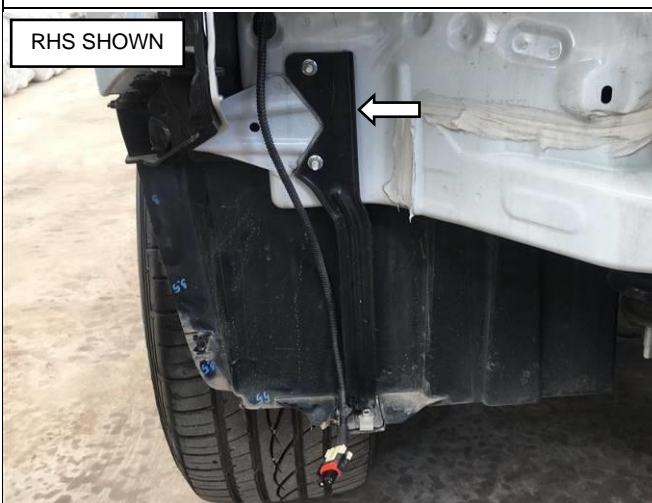
19.7 Measure and make a line 55mm out from the indicated point on the air dam so that it is in line with the indicated edge.

19.8 Draw a line perpendicular to the one marked in step 19.7 back towards the vehicle body.

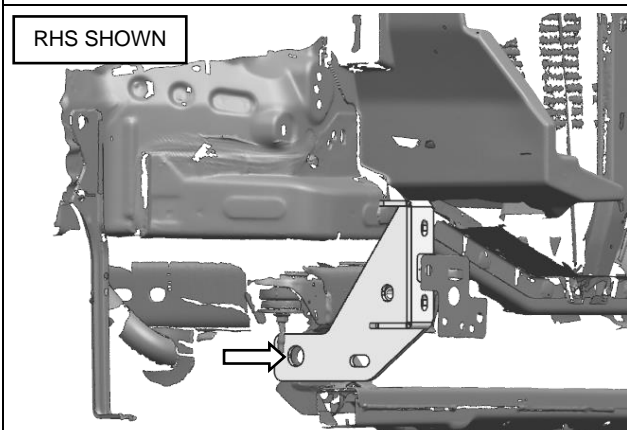
19.9 Mark a line from the end drawn in step 19.8, along the intersection of the lower air dam face.

19.10 Draw a line joining the end of those marked in steps 19.2 & 19.9.

Repeat steps 19.1 to 19.10 for the opposite side of the vehicle.



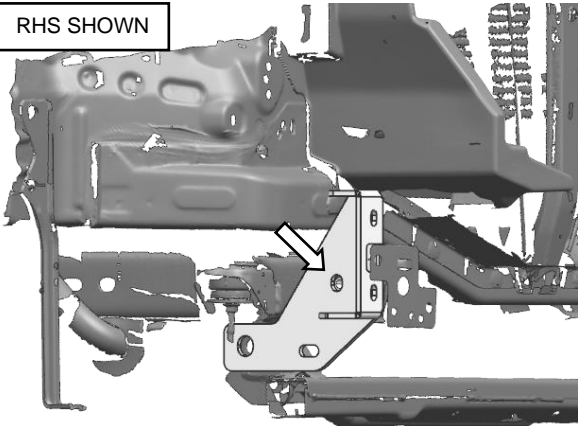
20. Remove and discard the associated bracket from both sides of the vehicle.



21. Fit chassis mount to the outer face of the chassis rail as shown and loosely secure it indicated with using :

- M14 x 1.5 x 45mm hex bolt (1)
- 9/16" x Ø1 1/8" Flat Washers (2)
- M14 x 1.5 nyloc nut (1)

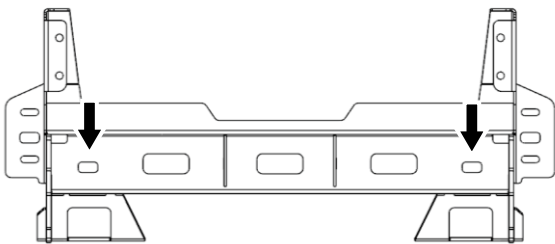
RHS SHOWN



22. Position the inserted spacer with aligned to the respective hole to the chassis, then secure it in place with using :

- M10 x 1.25 x 80mm hex bolt (1)
- M10 x Ø30mm flat washers (2)
- M10 x 1.25 nyloc nut (1)

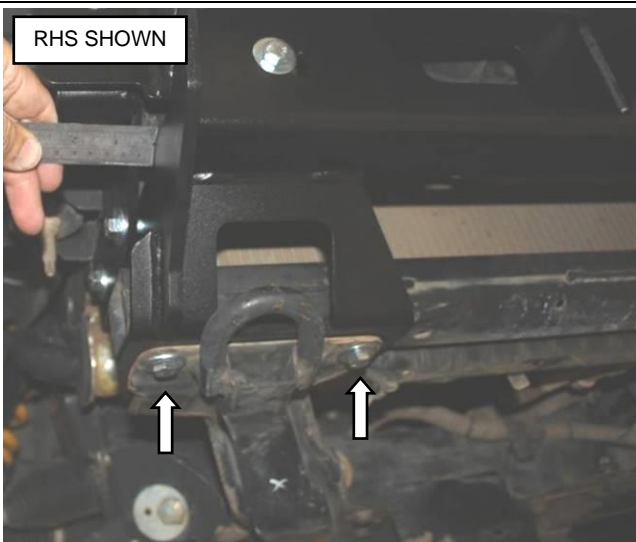
Repeat steps 21 to 22 for the opposite side of the vehicle then tighten fasteners to the torque specified on page 2.



23. Install winch frame (bar mount) on the vehicle chassis rail ends, centralize, then tighten it in place, using fasteners below :

- M10 x 1.25 x 30mm hex bolts (2)
- M10 spring washers (2)
- M10 x Ø30mm flat washers (2)
- Spacer plates (2)

RHS SHOWN

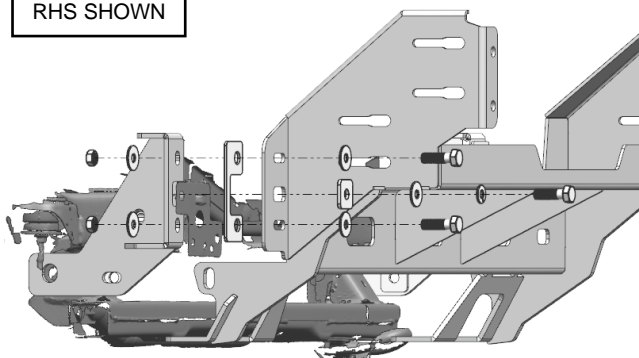


24. Position the lower bar mount between the chassis cross-member and the front of the tow points, loosely secure it in place with using below :

- M10 x 1.25 x 40mm hex bolts (2)
- M10 spring washers (2)
- M10 x Ø30mm flat washers (2)

Repeat this step for the opposite side of the vehicle then ensure these bolts also pass through the OE tow points.

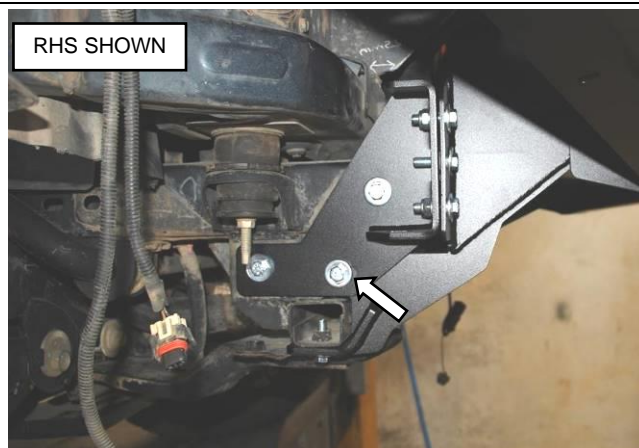
RHS SHOWN



25. Loosely secure the bar mount to the chassis mount as shown with using fasteners below :

- M10 x 1.25 x 40mm hex bolts (3)
- M10 spring washer (1)
- M10 x Ø30mm flat washers (5)
- M10 x 1.25 nyloc nuts (2)
- Spacer plate (1)
- 3mm spacer plate (1)

RHS SHOWN

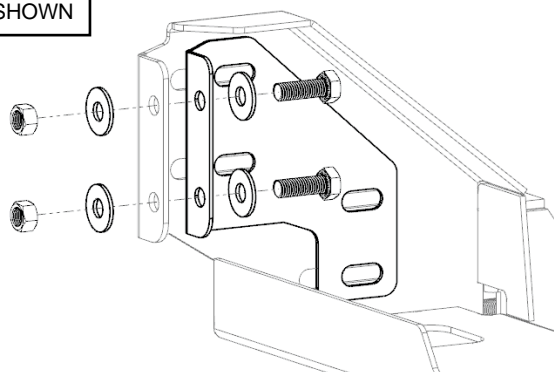


26. Insert the spacer plate indicated between the chassis mount and the bar mount, then loosely secure it in place with using :

- M10 x 1.25 x 40mm hex bolt (1)
- M10 x 1.25 nyloc nut (1)
- M10 x Ø30mm flat washer (2)

Repeat steps 25 & 26 for the opposite side of the vehicle then tighten fasteners to the torque specified on page 2.

RHS SHOWN



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

- M12 x 1.25 x 35mm hex bolts (2)
- M12 x Ø32mm flat washers (4)
- M12 x 1.25 nyloc nuts (2)

Align slots before tightening.

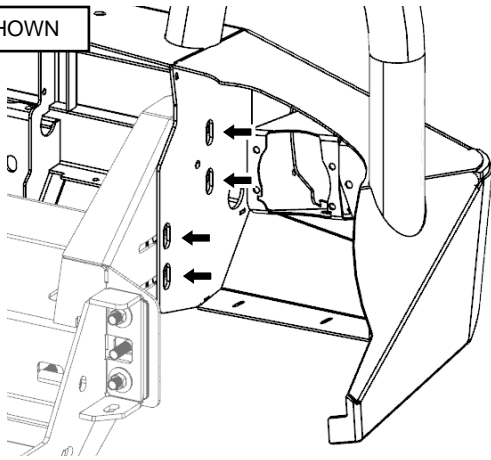
Repeat this step for the opposite side of the vehicle.

Install parking sensors and wiring into the bar using sensor kit (purchased separately)

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

For fog-lamp, please refer to supplied instructions.

RHS SHOWN



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

- M12 x 1.25 x 35mm hex bolts (4)
- M12 x Ø32mm flat washers (8)
- M12 x 1.25 nyloc nuts (4)

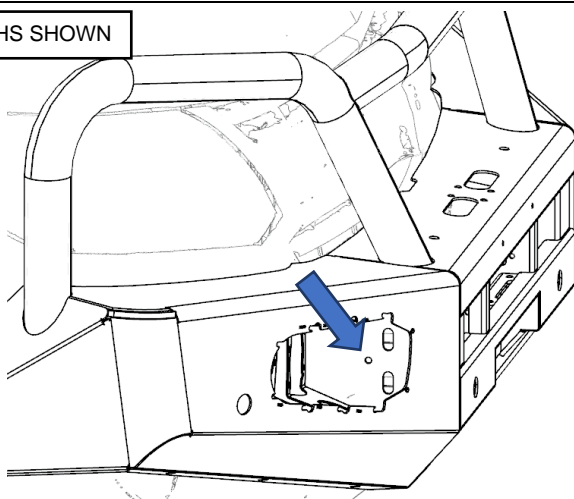
Repeat this for the opposite side of the vehicle.

RHS SHOWN



29. 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.

RHS SHOWN



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

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

Repeat for opposite side.

RHS SHOWN

Indicator Lamp Wiring:

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



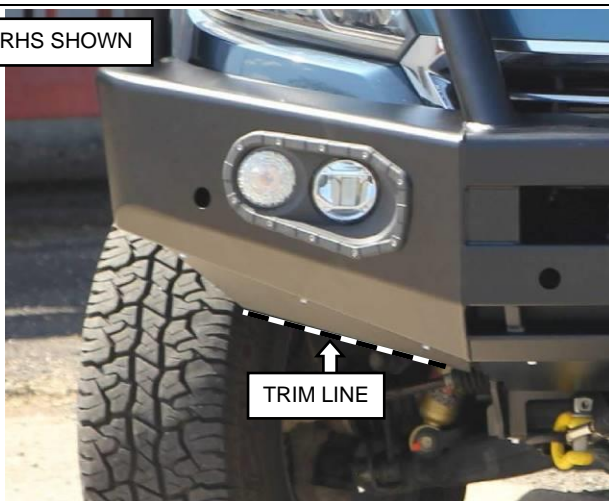
31. Install indicator lamps to bullbar. Indicator from front using supplied fasteners. Patch Indicator/park wiring into vehicle lamp wiring loom. Plug in foglamps if installed. Check all lights operate correctly.
32. For fog-lamp kit, (purchased separately) fit to rear of bracket using supplied fasteners.

RHS SHOWN



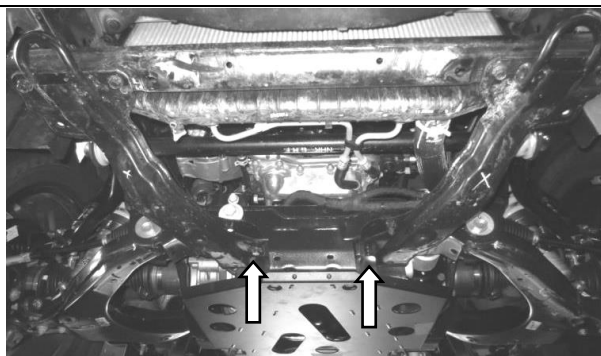
33. Fit plastic lamp housing to bull bar and secure it using :
 - M5 x 20mm socket head bolts (10)
 - M5 flange nuts (10)
 - Bocar Indicator (1)

RHS SHOWN

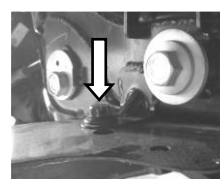


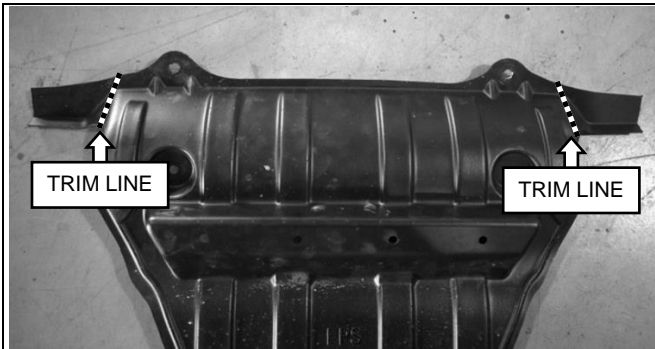
34. Fit wing guard to bull bar, and secure it with supplied fasteners, then neatly trim plastic guard liners to suit. Use zip ties to secure guard liner if required.
 - M6 x 1.0 x 20mm head bolts (4)
 - M6 cage nuts (4)
 - M6 x Ø12.5 mm flat washers (4)
 - M6 spring washer (4)

Repeat steps 31 to 34 for opposite side.

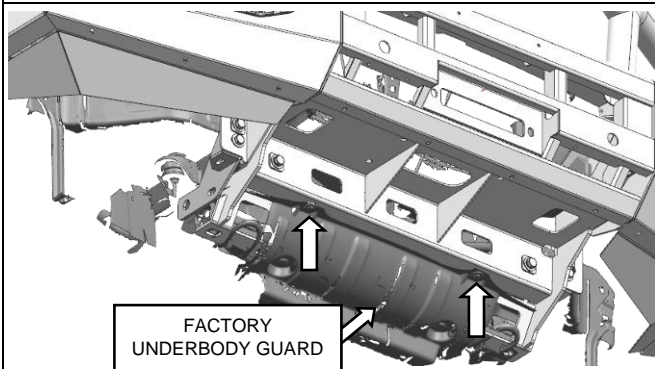


35. Tighten the OE fasteners loosened in steps 16 & 17.



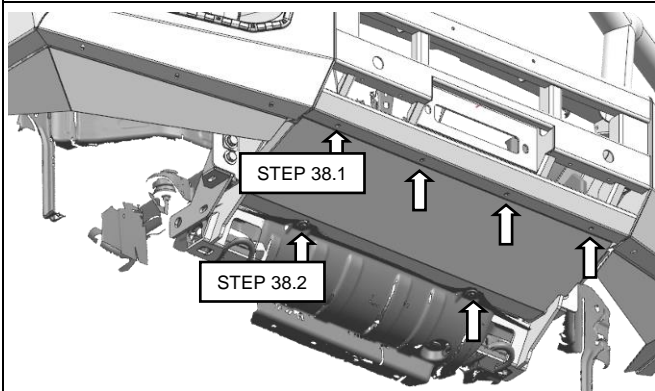


36. Trim the OE steering guard along the trim lines as shown.



37. Refit the factory underbody guard to its original position, securing it at the rear with original fasteners, except for the indicated position securing it to the bar mount.

Guard may need slight modification around OE tow points.



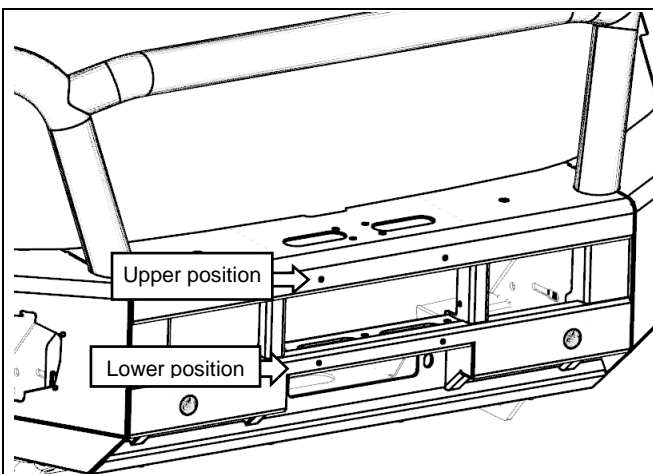
38. Fit center guard supplied and secure it to the bar mount with using the process below :

38.1 Secure center guard with using fasteners below :

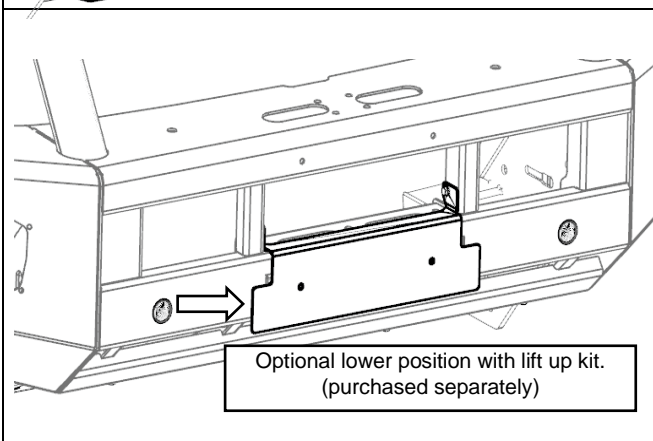
- M6 x 1.0 x 20mm head bolts (4)
- M6 cage nuts (4)
- M6 x Ø12.5mm flat washers (4)
- M6 spring washer (4)

38.2 Position the indicated center guard to outer face of the factory underbody guard at lower rear of the bar mount, secure it in place with using fasteners below :

- M8 x 1.25 x 30mm head bolts (2)
- M8 x 1.25 nyloc nuts (2)
- M8 x Ø19mm flat washers (4)



39. Fit the number plate to bull bar in upper or lower mounting position. Optional hinged mount can also be used as shown in next.



40. Ensure that all of fasteners are fully tightened and that no wiring or vehicle components are crushed or will rub or chafe.

41. 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