



# FITTING INSTRUCTIONS

Part Number: **5615040**  
Product Description: **REAR STEP TOW BAR**  
**Suited to:** **TOYOTA LAND CRUISER 200 SERIES 10/150N**

**Optional kits:**

<b>5700252:</b> <i>RHS Wheel Carrier</i>	<b>5700251:</b> <i>LHS Wheel Carrier</i>
<b>5700262:</b> <i>RHS Jerry Can Carrier</i>	<b>5700261:</b> <i>LHS Jerry Can Carrier</i>
<b>5700202:</b> <i>RHS Work Light</i>	<b>5700201:</b> <i>LHS Work Light</i>
<b>5715040:</b> <i>Camera Kit 10/150N</i>	

Notes: **When installing one tyre and one jerry can holder. It is recommended that the RHS tyre carrier is used to enable the camera to remain in the OE position with only limited reduction in view.**

## WARNING

### ALSO, NOTE THE FOLLOWING:

- ◆ This product must be installed exactly as per these instructions using only the hardware supplied.
- ◆ In the event of damage to any Rear Bar component, contact the nearest authorised ARB stockist. Repairs or modifications to the Rear Bar must not be attempted.
- ◆ Do not use this product for any vehicle make or model, other than those specified by ARB.
- ◆ Do not remove labels from this Rear Bar.
- ◆ This product or its fixing must not be modified in any way.
- ◆ The installation of this product may require the use of specialized tools and/or techniques
- ◆ It is recommended that this product is only installed by trained personnel
- ◆ These instructions are correct as at the publication date. ARB Corporation Ltd. cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer
- ◆ During installation, it is the duty of the installer to check correct operation/clearances of all components
- ◆ Work safely at all times
- ◆ Unless otherwise instructed, tighten fasteners to specified torque

## ARB 4x4 ACCESSORIES

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# GENERAL CARE AND MAINTENANCE

By choosing an ARB Product, you have bought a product that is one of the most sought after 4WD products in the world. Your bar is a properly engineered, reliable, quality accessory that represents excellent value. To keep your bar in original condition it is important to care and maintain it following these recommendations:



- Bearings in this kit are sealed units that do not require any additional grease or lubrication.
- Latches and contact points should be lightly lubricated at each vehicle service using any general automotive grease.
- As part of any Pre-Trip Preparation, or on an annual basis, it is recommended that a thorough visual inspection of the bar is carried out, making sure that all bolts and other components are torqued to the correct specification. Also check that all wiring sheaths, connectors, and fittings are free of damage. Replace any components as necessary. This service can be performed by your local authorized ARB Stockist.
- Over time latches may need re-adjustment.

## FITTING REQUIREMENTS

### REQUIRED TOOLS FOR FITMENT OF PRODUCT:

BASIC TOOL KIT	TORQUE WRENCH/S (2-250 Nm)
40MM SOCKET	30MM SOCKET.
ALLEN KEYS	MULTI TOOL OR JIG SAW
MASKING TAPE	MARKING PEN
RULER	TAPE MEASURE

### HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

Protective eyewear		Hearing protection	
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**NOTE: 'WARNING' notes in the fitting procedure relate to OHS situations, where to avoid a potentially hazardous situation it is suggested that protective safety gear be worn, or a safe work procedure be employed. If these notes and warnings are not heeded, injury may result.**

### FASTENER TORQUE SETTINGS:

SIZE	Torque Nm	Torque lbft
M5 Plastite	2Nm	1.5lbft
M5	5Nm	4lbft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft
M20	250Nm	185lbft

USE	PART No	QTY	DESCRIPTION
FIT TAIL LIGHT ASSEMBLIES TO REAR BAR	6821172L	1	Tail Light Assembly – Left Hand Side (LHS)
	6821172R	1	Tail Light Assembly – Right Hand Side (RHS)
	6151017	12	Bolt M6 x 16 x 1.0 Hex Head GR8.8 TZP480
	6151128	4	Nut flange M6 x 1.0 ZP
	6151300	4	Nut cage M6 2.6-3.5
	6151046	24	Washer flat 6mm TZP480
	3756681	2	Light mount cover bracket
FIT CAGE NUTS TO REAR BAR	6151300	17	Nut cage M6 2.6-3.5 956C
	6151303	4	Nut cage M8 1.8-3.2 1238-B
FIT LOCKING PIN BRACKETS TO REAR BAR	3756701	2	Locking pin bracket
	6151022	4	Bolt M8 x 1.25 x 25 Hex HD ZP GR8.8
	6151132	6	Nut flange M8 x 1.25 ZP
	4581044	2	Washer flat 8mm ZP
FIT LOOM TO VEHICLE	6821209	1	Loom
	180302	6	Cable tie
CHASSIS CAGE NUT PLATES	3194024	4	Chassis cage nut plate
	6151305	4	Nut cage M12 3.3-4.7
FIT BAR TO REAR CROSS MEMBER	6151340	4	Bolt M12 x 1.75 x 50 GD 8.8 ZP
	4581049	4	Washer flat ½ x 1 1/8 X 3 ZP
	4581050	4	Washer spring ½ x 3/16 x 3/16 ZP
	3757724	1	Plug relocating bracket
	6151300	2	Nut cage M6 2.6-3.5
	6151017	2	Bolt M6 x 16 x 1.0 Hex Head GR8.8 TZP480
	6151046	2	Washer flat 6mm TZP480
FIT BAR TO UNDERSIDE OF CHASSIS	3194020	2	Plate Chassis Spacer – 200 Series RSTB
FIT CENTRE COVER PANEL(S)	6522711	1	Centre cover panel
	6522715	1	Receiver cover panel
	6522716	1	Pintle cover panel
	3757684	1	Cover mount
	6151256	6	Screw BTN HD M6 x16 SS
	6151017	4	Bolt M6 x 16 x 1.0 Hex Head GR8.8 TZP480
	6151046	6	Washer flat 6mm TZP480
	4581036	4	Washer ¼ x 3/32 x 3/32 ZP
	6151300	2	Nut cage M6 2.6-3.5 956C
FIT END SURROUNDS TO REAR BAR	3133178L	1	End surround LHS
	3133178R	1	End surround RHS
	6151083	2	Bolt M8 x 1.25 x 35 PC 8.8 TZP480
	6191022	2	Side moulding 700mm
	6151022	4	Bolt M8 x 1.25 x 25 Hex HD ZP GR8.8
	6151132	2	Nut flange M8 x 1.25 ZP
	4581046	2	Washer Spring M8 x 3/32 x 3/32
	4581044	6	Washer flat 8mm x 17 x 1.6 ZP
	6250003	6	Spacer Wing Mount 8mm thick Gold Zinc

FIT END SURROUND BRACKETS	3757680L	1	End surround bracket LHS
	3757680R	1	End surround bracket RHS
	6151357	8	Bolt SEMS M10 x 30 ZP GD 8.8
	6151321	8	Nut flange M10 x 1.5 ZP
FIT FOG/REFLECTOR MOUNTS	3162478L&R	2	Vertical trim
	3163158L&R	2	Fog/Reflector mould
	3757780L&R	2	Mould mount
	6821327	2	Reflector
	665001	1	Rib tape 1metre
	6151022	4	Bolt M8 x 1.25 x 25 Hex HD ZP GR8.8
	4581044	4	Washer flat M8 ZP
	4581046	4	Washer spring M8 x 3/32 x 3/32
	6151303	4	Nut cage M8 1.8-3.2
	6151384	6	Screw self-tapping PHD COL PH5.2x16 TBZP 480
	6151176	4	Screw self-tapping (for fog light kit) 12mm x 8G PST
FIT OPTIONAL MUDFLAPS	3194013	2	Mud-flap mount plate
	6151228	10	Bolt M6 x 1.0 x 30 Black Zinc
	6151300	10	Nut cage M6 2.6-3.5
	4581082	10	Washer flat M6 x 19 x 1.6 BZ
FIT TOP INFILL PLATE	3199726	1	Top infill plate
	3199727	1	Aluminium step plate
	4590019	1	Rubber extrusion seal
	6151256	9	Screw BTN HD M6 x 16 SS
FIT GOOSENECK	4761171	1	Gooseneck Assembly 200 Series
	55010	1	Towbar Pull pin
	55020	1	Spring Clip
FIT TRAILER PLUG	6151425	2	Screw M5 x 18 Plastite Pan Head S437 finish

## PARTS SUPPLIED WITH THIS KIT FOR USE WITH WHEEL/ JERRY CAN HOLDERS

FITTING NUMBER PLATE LIGHT	86060BL	1	Number plate light
	6151281	2	Screw Button HD M5 x 12 TZP
	6151282	2	Nut flange M5 TZP480
FIT CENTRE LOCATOR	3759983R	1	Centre locator bracket RH
	3759983L	1	Centre locator bracket LH
	6151022	6	Bolt M8 x 25 Hex HD ZP Gr8.8
	4581046	4	Washer Spring M8 x 3/32 x 3/32
	4581044	8	Washer flat M8 ZP
	6151132	4	Nut flange M8 x 1.25 ZP
	6151212	2	Nut nyloc M8 x 1.25 BZ

## LOWER BAR PREPARATION.



1. Fit M6 cage nuts into lower bar (13 total):
  - 4 x M6 cage nuts on the wings for each light assembly.
  - 9 x M6 cage nuts in top face of bar.

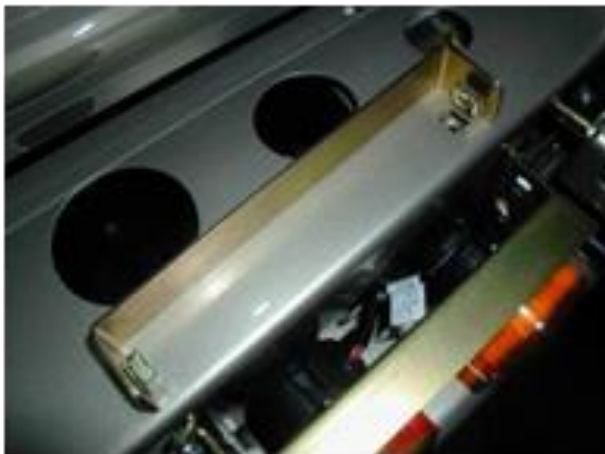


2. Feed cables on light into rear bar.

Fit lights into the cage nuts using:

- 8 x M6 button head screws
- 8 x M6 flat washers

**When fitting light assemblies to bar, orange (indicator) lights must be to the outside as shown. The flange on the bracket should also be at the top.**

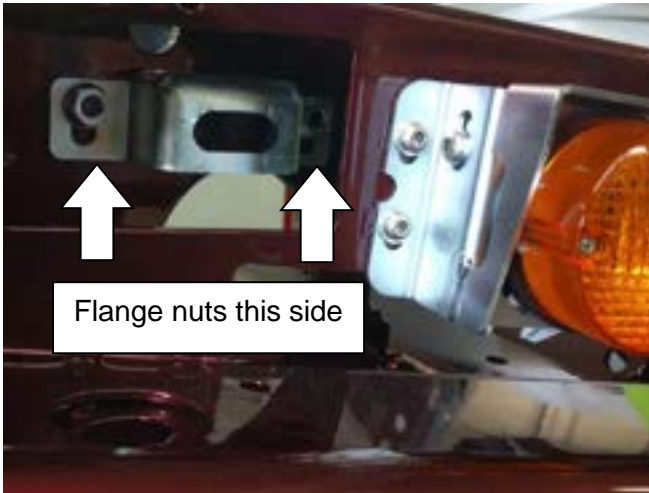


3. Fit cage nuts into rear bar and light cover.

Bring the light assembly up to the rear bar, feeding the wiring into place.



- Using M6 x16 button head bolts and flat washers, fit cover bracket to light mount.



- Fit locking pin brackets using two M8 x 25 bolts, flat washers, and flange nuts. Finger tighten only. Fit bolts from vehicle side of the bar so that the flange nuts are on the side shown (Viewed from front of bar LHS.)

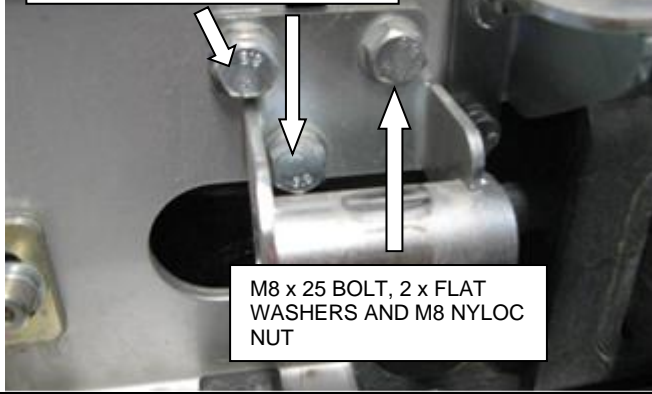
**NOTE: Even if no swing arms are fitted, it is recommended that locking pin brackets are fitted. This will make it easier to fit the swing arms later if desired.**



- If Jerry can holder or wheel carrier is to be fitted. Fit latching hardware loosely to the centre section of the bar, using zinc plated nut plate and M8 flange bolts.

**NOTE: Do not tighten. These will be adjusted later.**

M8 X 25 BOLT, FLAT WASHER,  
SPRING WASHER AND FLANGE  
NUT



M8 x 25 BOLT, 2 x FLAT  
WASHERS AND M8 NYLOC  
NUT

7. If Carriers are to be fitted. Install these now as shown for relevant sides. LHS shown.

If Carriers are not to be fitted keep these items for future use.



**8. If cover panels are to be fitted,  
they must be fitted to the bar before  
it is fitted to the vehicle.**

**Refer to fitting instructions supplied  
in cover panel fitting kit.**

## VEHICLE PREPARATION.



9. Remove mud flaps and lower guards from both sides of vehicle.



10. Remove tie down points and all clips from the underside of vehicle bumper.

Remove 4 clips from bumper, beside rear of Tail gate.  
Remove trailer plugs and brackets.





11. Remove black tread cover from top of rear bumper.

Once exposed, remove M10 bolts securing bumper.



12. Open tailgate and remove scrivets holding rear bumper in place.

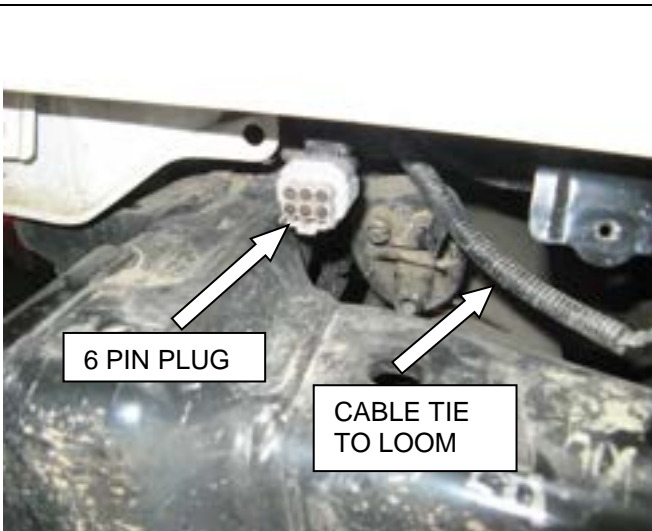


13. Carefully pry rear bumper away from vehicle.

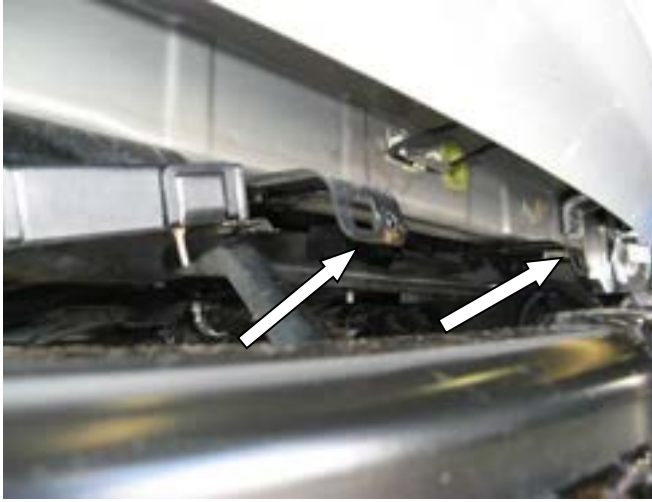
**Note: Tilting the lower portion out will cause the clips to jam. Try to keep Rear Bumper, vertical as it unclips.**



14. Remove plastic quarter panel splash guards.



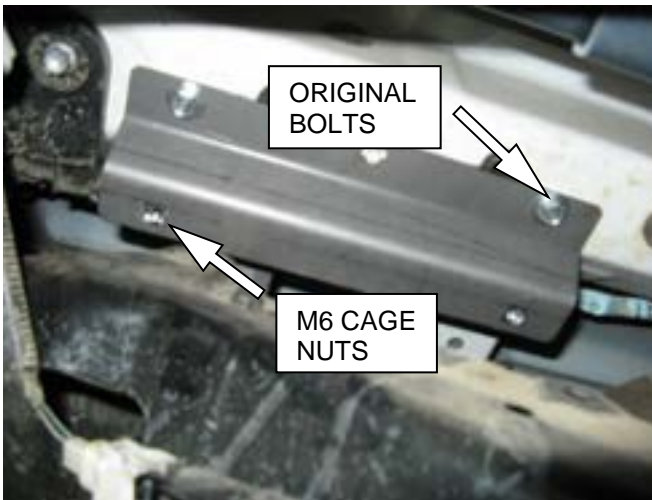
15. Locate and unclip the 6-pin plug on the left-hand side of the vehicle. Using cable-ties supplied in fitting kit, attach it to loom that runs next to it making sure exhaust is cleared



16. Remove bumper mounting brackets and discard.



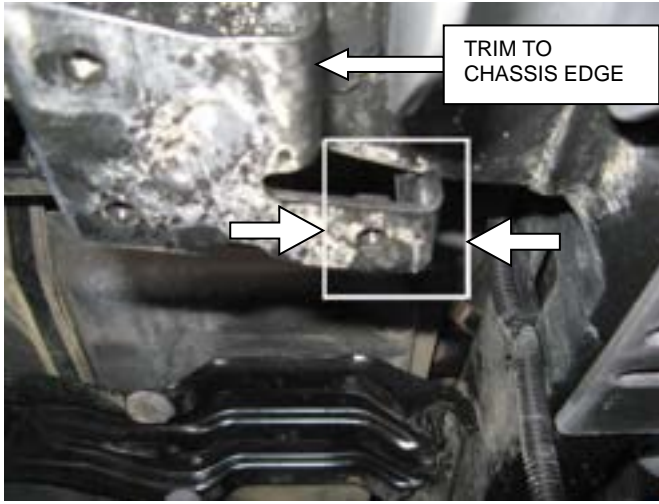
17. Locate steel bracket with plug attached on the left-hand side of the vehicle. Unbolt bracket from vehicle and retain hardware for next step.



18. Attach two M6 cage nuts to new bracket supplied in kit. Fit bracket to vehicle using original bolts removed in step 17. Attach loom bracket to cage nuts using 2 x M6 x 16 bolts and flat washers.



M6 – 9Nm



19. Locate right hand bumper bracket on underside of rear cross member. Area inside white box is to be trimmed, flush to chassis edge to make way for rear bar mounts.



20. Trim bracket leg as shown using a small grinder with cutting disc or an air-hacksaw. Paint all bare metal surfaces after cutting.

## WIRING LOOM FITTING PROCEDURE.



21. Remove the tailgate bridging panel and set aside.



22. Remove rubber trim surround being careful not to get any of the silicone on the vehicle interior. Once this is done, remove the jack access panel and gently pry open the rear section quarter panel. Repeat procedure for the left-hand side.



23. Using the double-sided tape supplied in kit attach the module box to the quarter panel above the jack.

**NOTE: Clean area with grease and wax remover. Then attach the white earth lead to one of the M6 mounting points for the jack holder.**



24. Position rear bar up close behind vehicle.
25. Locate factory rubber grommet on driver's side and remove. Pass section of loom with grommet attached through this hole making sure grommet seals tightly.

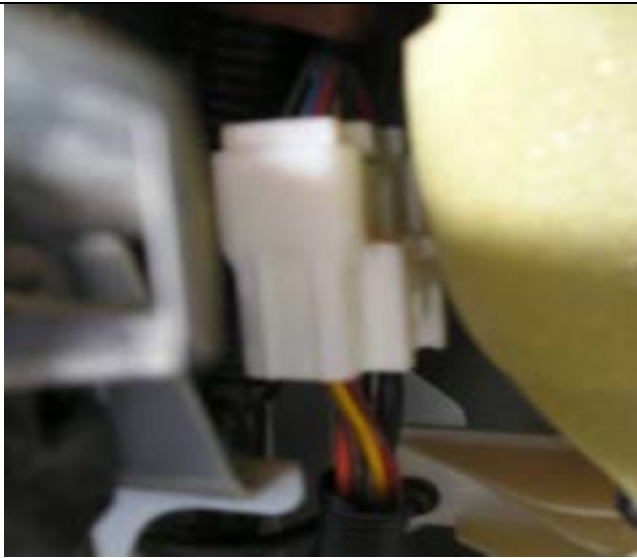


26. Run wires along rear of bar to corresponding lights. The license plate light section is long enough to cover either fitment on driver's side or passenger side. Cable tie excess behind bar. Run the towbar wires down to plug in bar and secure.

**Note: Keep wires clear of chassis mounts. Run wires around side of chassis mount, away from vehicle. Then down to lower lip of rear bar where cable tie holes are located.**



27. Run pick up wires for harness under the bridging panel, removed earlier to left hand side of vehicle. Secure with cable-ties.



28. Locate corresponding white male plug and attach loom. Skip to step 34.

**NOTE: Some North American vehicles may not have this plug, in which case Proceed with STEP 29.**

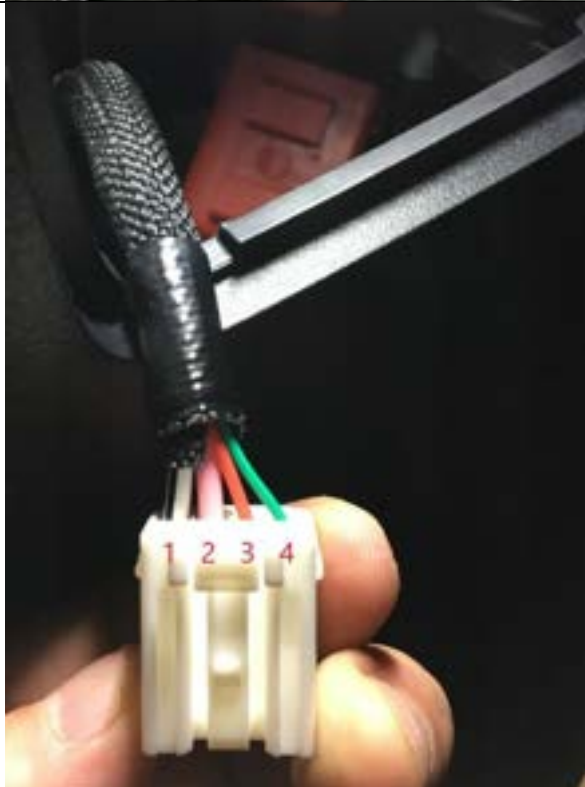


29. Locate the trailer wiring plugs. These may have gray and black plugs over them if the trailer connector was not installed. If the trailer connector was not installed, the plugs will be found on the right-side frame rail next to the spare tire.



30. Find the 2-pin connector and splice it into the black wire.

This wire will be connected to the orange wire in the ARB harness.



31. Disconnect the 4-pin connector for each of the tail lights.

32. Splice the following wires from the 4-pin connector on either side of the vehicle into the provided ARB wiring harness:

TOYOTA PLUG	ARB WIRING HARNESS
WHITE (GROUND)	WHITE
PINK (INDICATOR)	GREEN (RH) YELLOW (LH)
RED (BRAKE)	RED
GREEN (RUNNING LIGHTS)	BROWN

33. Before re-assembling the interior, check functionality of all lights.



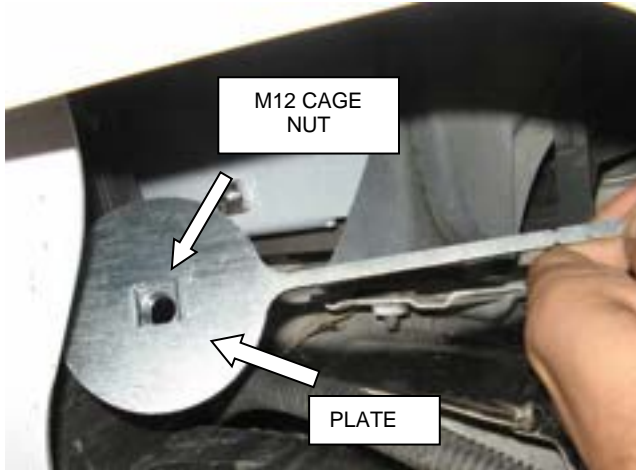
34. Re-assemble interior.

On the edges of the lower trim panel, use Christmas tree clip supplied instead of the original fastener.

The original fastener will be re-used on the Reflector housing.



## FIT REAR BAR TO VEHICLE.



35. Fit M12 cage nut onto plates and insert through hole inside of chassis. Place one facing up and one facing down on each side. These are used to secure top and bottom inner mounts.

**NOTE: TO BE INSTALLED BEFORE BAR IS MOUNTED.**



36. Slide rear bar forward and over chassis mounts of vehicle. Install M12 x 1.75 x 50 bolts, flat washers, and spring washers.

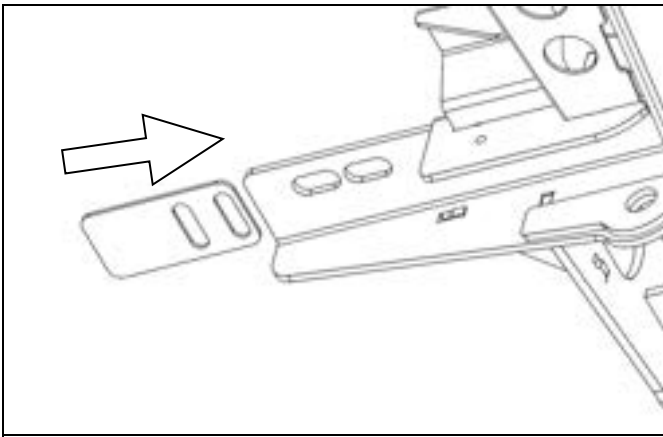


M12 – 77Nm



37. Secure bar to cage nut plates using two - M12 x 1.75 x 50 bolts, flat washers and spring washers.

**NOTE: DO NOT TIGHTEN BOLTS.**



38. 3mm and 6mm packers are supplied for adjustability.  
Try 3mm packer first.  
Slide packers between chassis and bar mounts and install original chassis bolts.

Do not tighten. Bar will be adjusted and packers may be changed later in the installation process.



39. Secure bar to bottom of chassis and cage nut plates using two M12 x 1.75 x 50 bolts, flat washers and spring washers.

40. Tighten all bolts to specified torque when done.



M12 – 77Nm

**AT THIS STAGE JERRY CAN CARRIERS OR WHEEL CARRIERS MUST BE FITTED.**

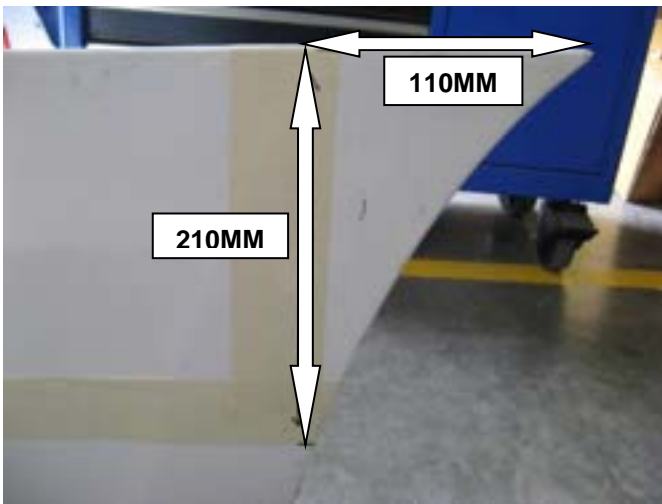
**TO FIT JERRY CAN CARRIERS AND WHEEL CARRIERS, REFER TO FITTING INSTRUCTIONS SUPPLIED IN FITTING KITS WITH JERRY CAN CARRIERS OR WHEEL CARRIERS.**

**IF A JERRY CAN CARRIER OR WHEEL CARRIER IS NOT TO BE FITTED, THE COVER PANEL SHOULD BE ALREADY FITTED. (REFER TO STEP 8.)**

## PLASTIC BUMPER PREPARATION



41. Remove fog light / reflectors from rear bar.

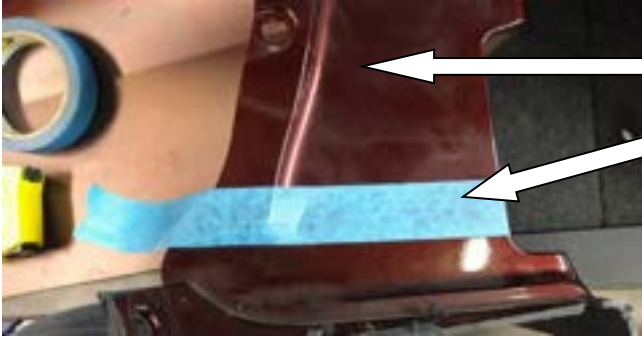


42. From top edge of wheel arch section, measure back 110mm, then down 210mm. Mark this position.



43. Measure 160mm down from mould edge in bumper to side of fog light / reflector. Mark this point. Then using a length of masking tape join these points to form a straight line up to the recess for the fog light / reflector.

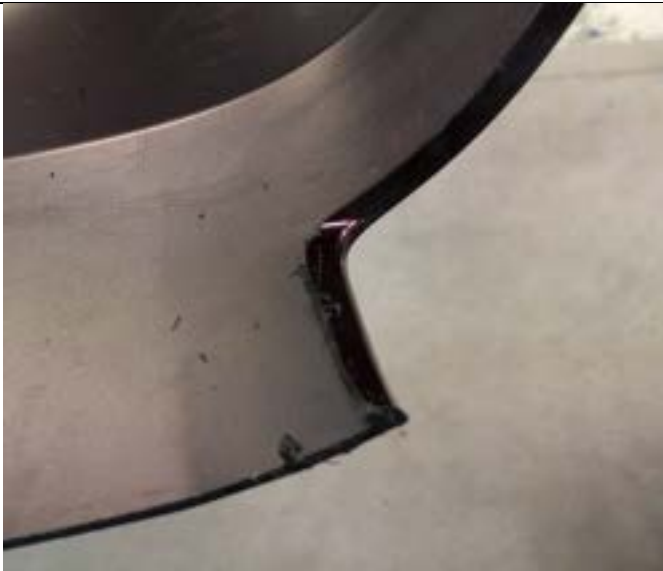
**NOTE: Confirm line is straight by sighting down the length of bumper. If not, re-adjust masking tape by using a straight edge.**



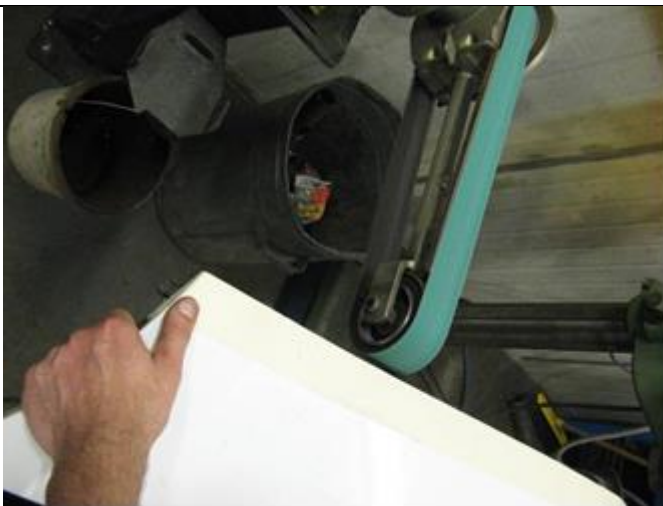
44. On inside edge mark horizontal from the top of the lower radius. This will be cut precisely after reflector insert is installed.
45. Carefully cut along all marked horizontal lines.



Warning: - Drilling or Cutting operations can result in flying metal debris, safety glasses should be worn.

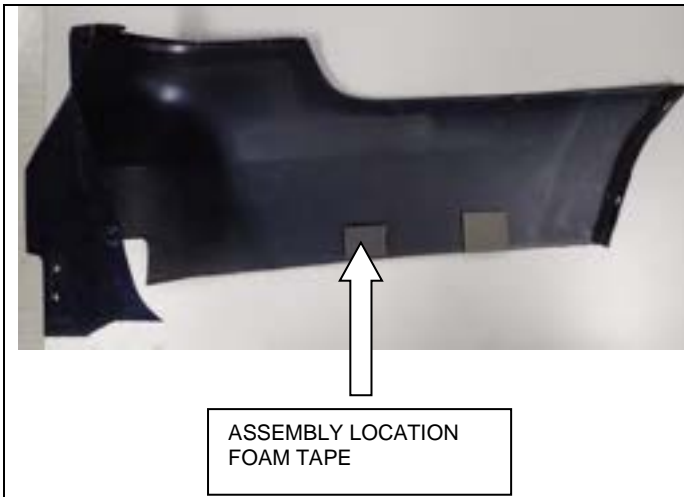


46. Leaving the radius at the front, trim off mounting flanges for original reflector.



47. De-burr all surfaces when done. Access to a finishing machine will provide a smooth finish. Attach bumper section back on vehicle.
48. Cut pinch weld to 700mm lengths and fit each length along the bottom cut edges of the bumper halves – see step 46 image.

Part Number: - 6191028 – 1400 mm total Length.



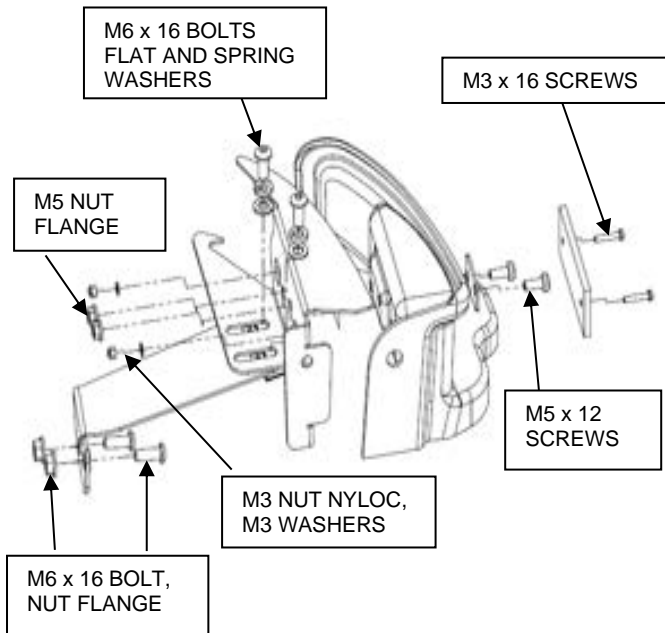
49. Assemble, a double layer of foam tape, centrally between the original foam locations, to remove bow on bumper section. LHS shown.



50. Fitted Pinch Weld Narrow 700 mm strip to trimmed bumper sides. LHS shown.



51. Loosely hold reflector housing over bumper and mark position of hole on inside edge.  
Drill 10mm hole to bumper.



52. Fit reflector housings into the trimmed bumper section.  
Use two M5 screws, washer plates and M5 flange nuts per side.

Fit reflector using two M3 x 16, M3 washers, M3 Nyloc-nuts

Fit original low head scrivet removed from interior trim.

Fit rear brace bracket loosely onto the Reflector bracket.

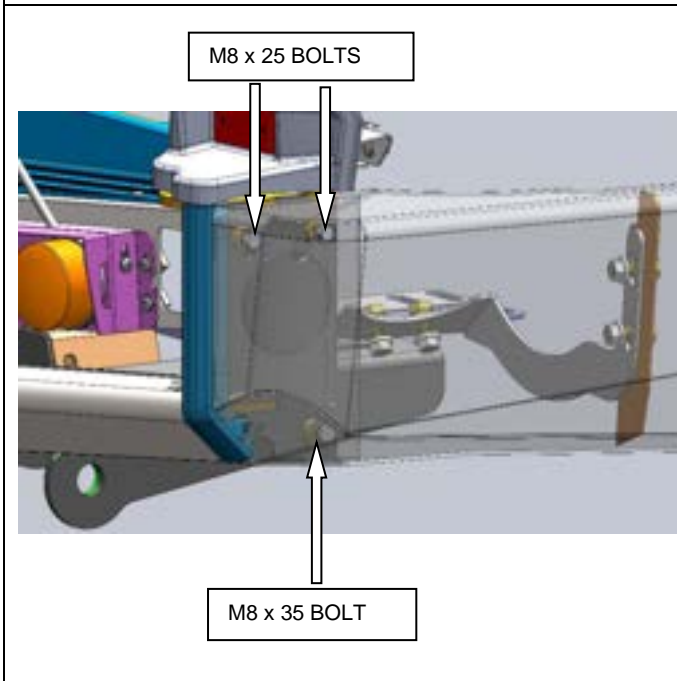
Fit assembly onto the vehicle.  
Using M6 x 16 flange bolts, flat washers and Flange nuts, fit brace to vehicle.

Tighten all bolts.



M6 – 9Nm

## REAR BAR FITMENT CONTINUED



53. The uprights of the bar feature 2 tapped holes for an M8 thread, the bottom hole being open.

Attach the Wings (LHS / RHS) surrounds using two M8 x 25 bolts, flat washers, spring washers, and 8mm spacers for the upper two holes.

For the bottom hole, use an M8 x 35 bolt, flat washer, 8mm spacer and M8 flange nut. The assistance of another person may help when securing the surrounds.

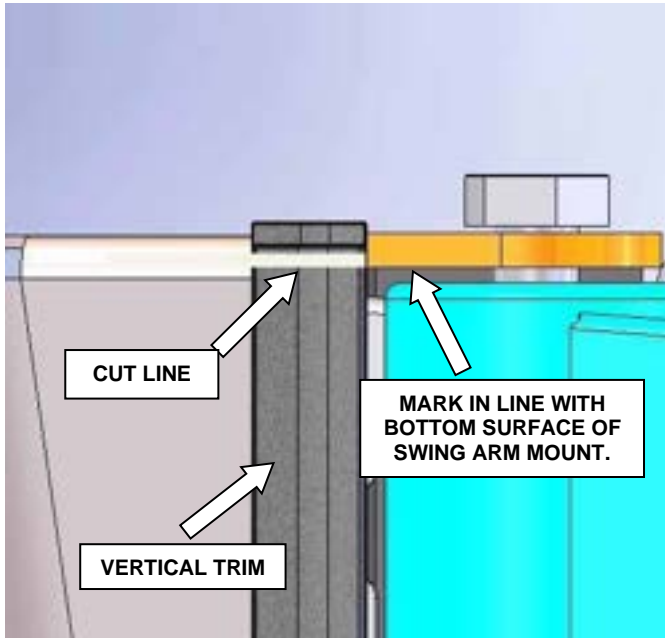
Finger tight only.



54. Using two M10 SEMS bolts and M10 flange nuts attach brace to chassis as shown. LHS shown, finger tight only.



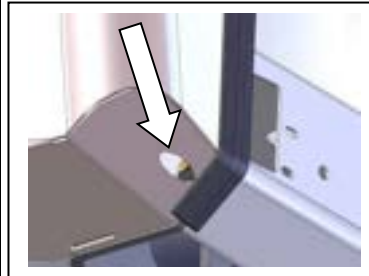
55. Using two M10 SEMS bolts and flange nuts attach brace to wing as shown. LHS shown, finger tight only.



56. Before tightening wing bolts, fit urethane vertical trim between end plate and end surround. Mark a point on trim as shown in photo (below middle) through access hole in wing. Mark a line as shown in the left photo.

Once this is done cut top section and drill a 14mm hole in bottom point. This is to gain access to adjuster bolt. Bottom right photo shows result.

Adjust trim to fit snugly around the rear bar and the end surround.



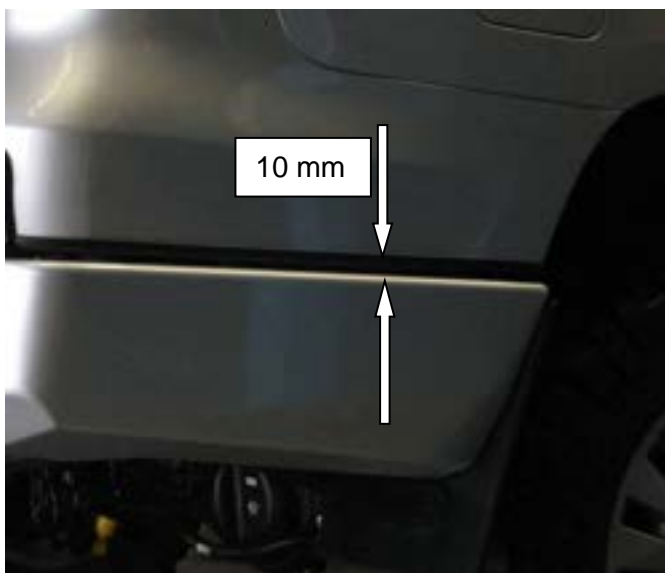
57. Adjust rear bar in and out such that the rubber trims sit neatly with the reflector housings.

Ensure that when tyre carriers are closed, there is a minimum of 25mm clearance to the back door. If this is too large, shims under the mounting brackets may be changed to 6mm.

When fitment gaps are acceptable tighten all bolts securing rear bar to specified torque.



M12 - 77 Nm.



58. Align top face of end surround parallel with bumper of vehicle. Adjust end surround to achieve a 10mm gap to the pinch weld fitted to the bumper.

Starting in the top corner of the end surround and working backwards tighten all bolts.

**NOTE: A second person may be required to help keep the vertical trim fitting snugly and to ensure the end surround remains parallel to the body. Once this is done, fit pinch weld to bottom edge of bumper.**





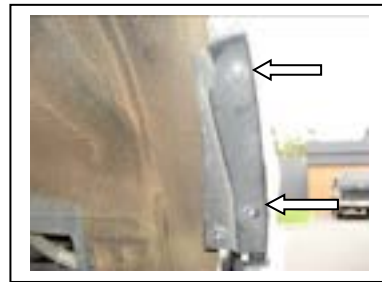
59. Optional mudflaps may be fitted at this point. Please check local laws as to whether these are necessary.

Place mounts on mudflaps as shown.

On the ARB mudflap, align the top holes of the mount with the top holes of the mudflap. Mark the two holes as shown in the photo and drill to 7mm. Install M6 cage nuts to holes in mount. LHS shown.

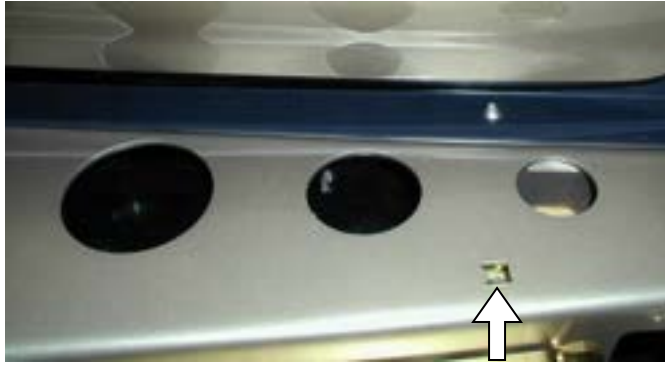


60. Place mudflap mount on inner surface of bar and mud flap on outer surface of bar and secure using black M6 bolts and flat washers.



61. Trim top area of standard mudflap, level with top of rear bar and secure top section to bumper and body with original hardware.

## FITTING TOP INFILL PLATE, ALUMINIUM STEP PLATE AND TRAILER PLUG



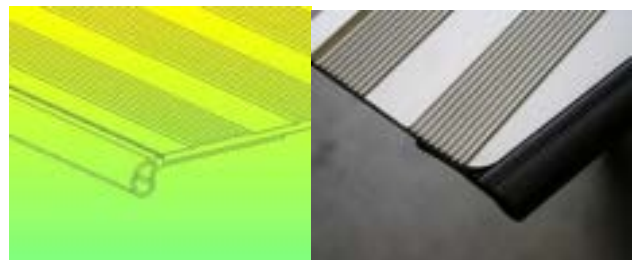
62. Using M6 Button Head Cap Screws, to fit top infill plate, as shown.



63. Fit rubber sealing strip to underside of aluminium step plate by laying strip on the underside of step plate so that it is even on both ends. Using scissors, cut darts up to the bulb end of the rubber strip so the strip can follow the front profile of the aluminium step plate.

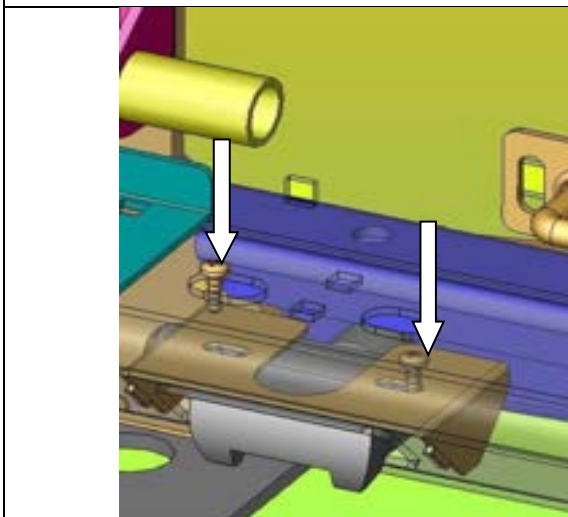


64. Carefully remove backing tape on the rubber strip and fit to step plate working from the centre outwards. Make sure rubber strip hugs the front edge of the aluminium step plate.





65. Using M6 Button Head Cap Screws to fit aluminium step plate, as shown



66. Fit trailer plug to recess using M5 pan head screws as shown by arrows.

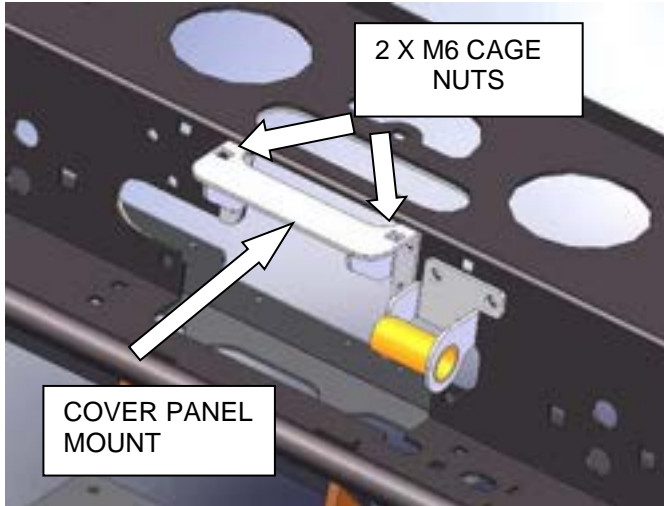
For aesthetics and protection of the plug, it is recommended that a flat-type plug is fitted.

To fit alternate plugs, an adaptor bracket (Part Number: - 5700090) is available. This is not supplied as standard with the rear bar kit.



M5 – 5Nm

## TOW HITCH COVER PANELS.



67. Install cover panel mount to cage nuts in bar using four M6 x 15 bolts, spring washers and flat washers.

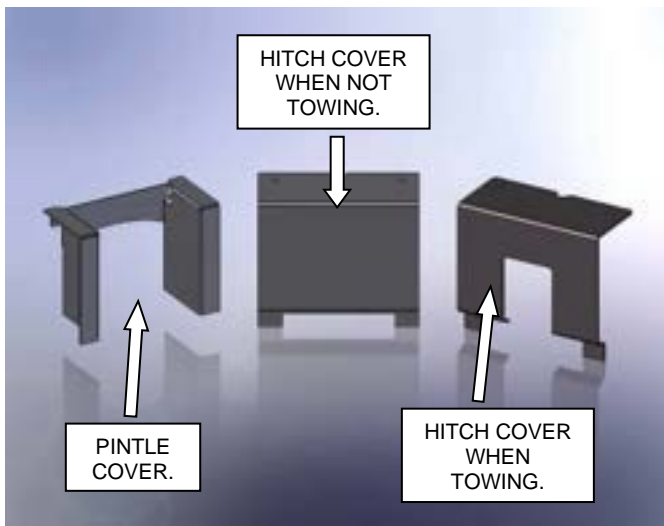
Finger tighten only.

68. Fit 2 x M6 cage nuts to underside of mount. Close carriers if fitted and adjust mount to suit.

69. Tighten all bolts to specified torque.



M6 – 9Nm



70. The rear bar features three hitch cover panels. Two are for the gooseneck model and are attached using two M6 button head screws and flat washers. The third is for the pintle model and is mounted in place of the cover panel mount using two M6 x 15 bolts, spring washers and flat washers.

71. The gooseneck / hitch cover panels must be removed to access the tow pin. This is achieved by removing the two stainless steel button head cap screws located on the top surface.

72. Tighten all bolts to specified torque.



M6 – 9Nm

## FINAL PRODUCT FITTED TO VEHICLE

