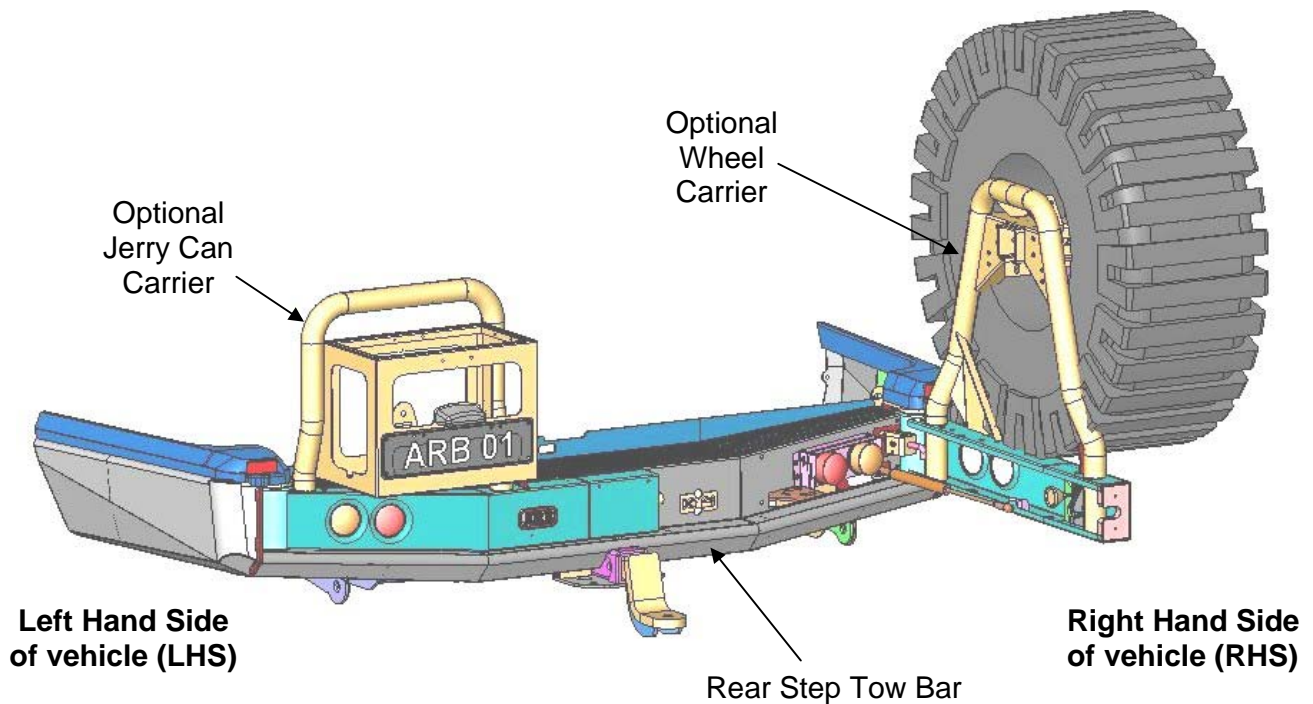


ARB TOYOTA 100 SERIES IFS REAR STEP TOW BAR

Product number: 5613210



**READ FITTING INSTRUCTIONS
CAREFULLY BEFORE PROCEEDING**

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 – RHS
	6151017	12	Bolt M6 x 16
	6151128	8	Nut M6 flange
	6151300	4	Nut M6 cage
	6151046	12	Washer 6mm flat
	3756681	2	Light mount cover bracket
FIT CAGE NUTS TO REAR BAR	6151300	11	Nut M6 cage
FIT LOCKING PIN BRACKETS TO REAR BAR	3756701	2	Locking pin bracket
	6151022	4	Bolt M8 x 25
	6151132	4	Nut M8 flange
	4581044	4	Washer 8mm flat
FIT LOOM TO VEHICLE	6821162	1	Loom
CHASSIS SIDE NUT PLATE ASSEMBLY	3199729	2	Chassis side plate
	6151306	4	Nut M12 cage
FIT BAR TO REAR CROSS MEMBER	6151096	2	Bolt M12 x 40 x 1.25
	4581049	2	Washer 12mm flat
	4581050	2	Washer 12mm spring
FIT BAR TO UNDERSIDE OF CHASSIS	6151099	8	Bolt M14 x 40 x 1.5
	4584298	8	Washer flat 14mm
	4581052	8	Washer 14mm spring
	5848307	2	Chassis packer
FIT RHS CHASSIS BRACKET TO REAR CROSSMEMBER	6151291	1	Bolt M12 x 35 x 1.25 with extension
	4581007	2	Washer ½" flat heavy duty gold zinc
	4581050	1	Washer 12mm spring
	6151135	1	Nut M12 x 1.25
FIT BAR TO CHASSIS SIDE	6151255	4	Bolt M12 x 40 x 1.75
	4584298	4	Washer 14mm flat
	4581050	4	Washer 12mm spring
FIT CENTRE COVER PANEL	6522646	1	Centre cover panel
	6151300	2	Nut M6 cage
	6151352	2	Socket head cap screw M6 x 25 stainless steel
	6151207	2	Bolt M6 x 25
	6151046	4	Washer 6mm flat
	6151036	4	Washer 6mm spring
	5848302	2	Packer black nylon
	6250003	2	Spacer 8mm thick gold zinc
FIT END SURROUNDS TO REAR BAR	3131183L	1	End surround LHS
	3131183R	1	End surround RHS
	6151083	6	Bolt M8 x 35
	6151132	6	Nut M8 flange
	4581044	6	Washer 8mm flat
	6250003	6	Spacer 8mm thick gold zinc

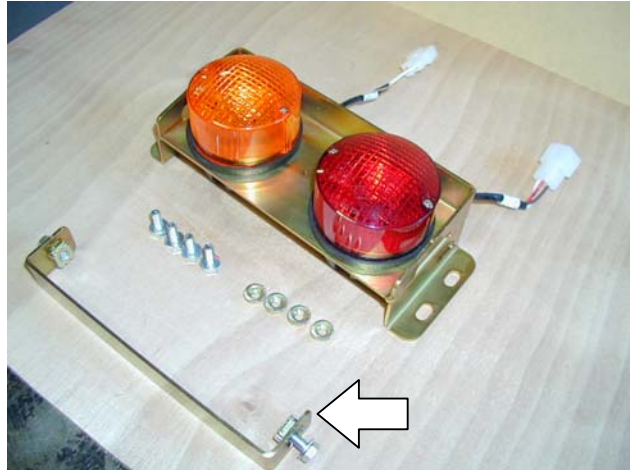
FIT END SURROUND BRACES	4681155L	1	End surround brace LHS
	4681155R	1	End surround brace RHS
	6151099	2	Bolt M14 x 40 x 1.5
	4584298	2	Washer flat 14mm
	4581052	2	Washer 14mm spring
	6151021	4	Bolt M8 x 20
	6151132	4	Nut M8 flange
	4581044	4	Washer 8mm flat
FIT URETHANE TRIMS	3162478L	1	Vertical trim
	3162478R	1	Vertical trim
	3162479L	1	End surround trim
	3162479R	1	End surround trim
	6821166	2	Reflector
	6151162	10	Nut M6 nyloc
	4581082	10	Washer 6mm flat heavy duty black zinc
FIT MUDFLAPS	3199754	2	Mudflap mount plate
	6151017	10	Bolt M6 x 16
	6151128	10	Nut M6 flange
	6151046	2	Washer 6mm flat
	4581082	8	Washer 6mm flat heavy duty black zinc
FIT TOP INFILL PLATE	3199726	1	Top infill plate
	3199727	1	Aluminium step plate
	4590019	1	Rubber extrusion seal
	6151256	9	Button head cap screw M6 x 16 stainless steel
FIT GOOSENECK	4761132	1	Gooseneck
	55010	1	Pull pin
	55020	1	Spring Clip

**PARTS SUPPLIED WITH THIS KIT TO BE USED WHEN
FITTING WHEEL CARRIERS OR JERRY CAN CARRIERS**

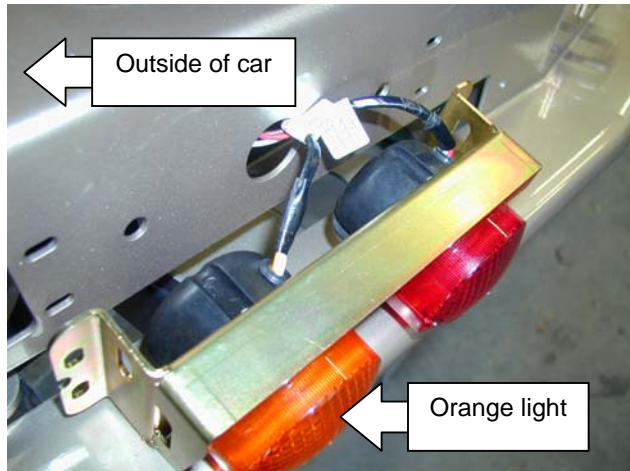
FITTING NUMBER PLATE LIGHT	86060BL	1	Number plate light
	6151281	2	Screw M5 pan head
	6151282	2	Nut M5 flange
FIT CENTRE LOCATOR	3756677	1	Centre locator bracket

TOOLS REQUIRED: Basic tool kit, 30mm socket, ¼" drive socket set, silicon.

FITTING TAIL LIGHTS TO BAR



1. Compile components as shown.
 - Light assembly (LHS shown)
 - Light cover
 - 6 x M6 x 16mm bolts
 - 6 x M6 flange nuts
 - 2x M6 cage nuts
 - 6 washers to suit M6
2. Fit cage nuts to light cover as shown.



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.

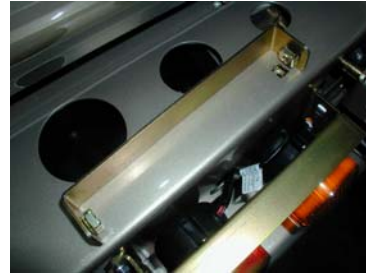
3. Feed looms through large hole in bar.



4. Fit light assemblies using M6 hardware. Finger tighten only.
5. Repeat steps 1 to 3 for RHS assembly.



6. Fit M6 cage nuts to light mount cover bracket as shown below.
7. Using **M6 x 16 bolts** and flat washers, fit cover bracket to light mount.



FITTING CAGE NUTS TO BAR



8. Fit M6 cage nuts (9 total) in square holes in top of bar as shown.

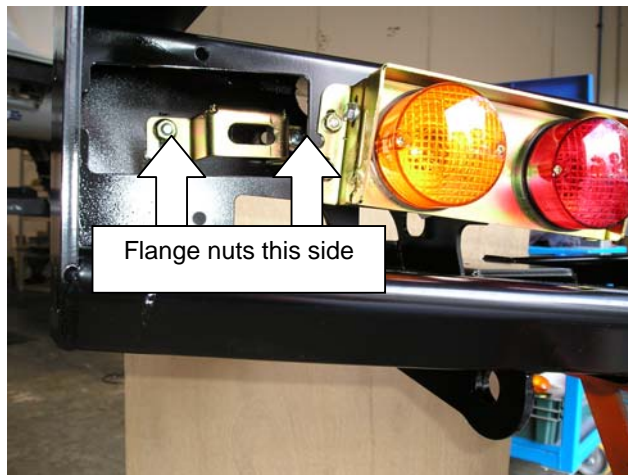


9. Fit M6 cage nuts (2 total) to front of bar.



10. **If fitting a wheel carrier or jerry can carrier**, fit M8 cage nuts (supplied in wheel carrier fitting kit or jerry can carrier fitting kit) as shown.

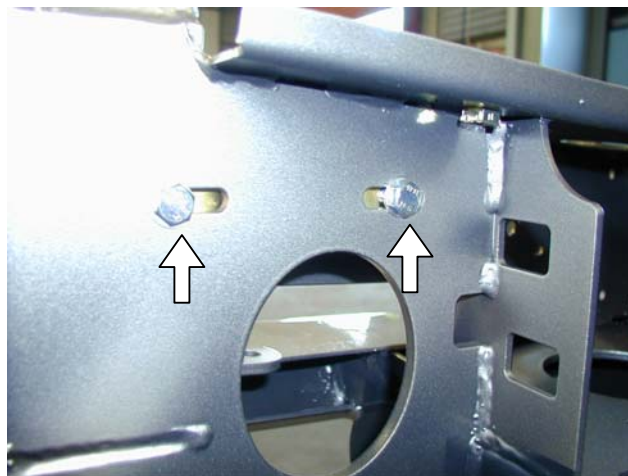
FITTING LOCKING PIN BRACKETS TO BAR



11. Fit locking pin brackets using two **M8 x 25 bolts**, flat washers and flange nuts. Finger tighten only.

Fit bolts through from rear of rear bar so that the flange nuts are on the same side as the bracket as the photo shows.

(Viewed from front of bar LHS.)



M8 bolts must fit in rear of bar for ease of adjustment later on.

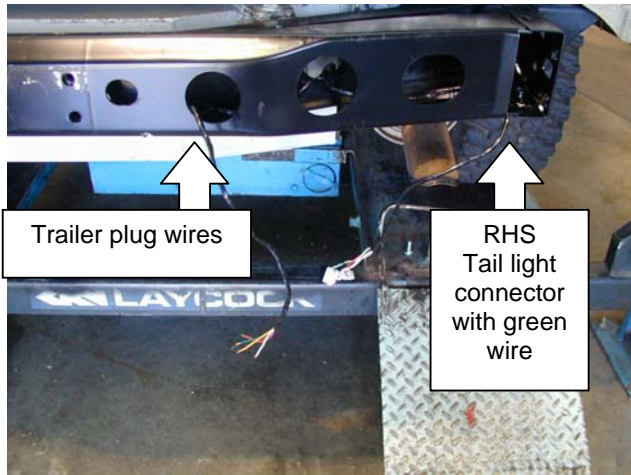
(Viewed from rear of bar LHS.)

FITTING LOOM TO VEHICLE



12. Fit loom inside rear cross member of vehicle chassis.

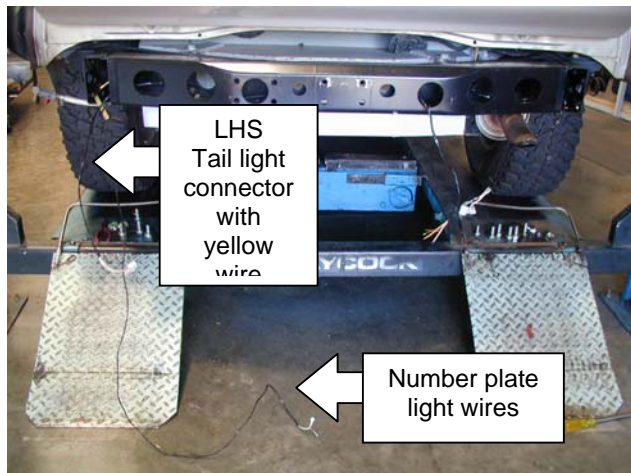
The plug for connecting the loom to the vehicle must be on the RHS of the vehicle.



13. Exit tail light wires and trailer plug wires as shown.

The tail light connectors with the GREEN wire must be on the RHS of the vehicle.

The tail light connectors with the YELLOW wire must be on the LHS of the vehicle.



The loom is fitted with wiring for a number plate light.

If a jerry can carrier is to be fitted the number plate and light should be fitted to it. The wire for the number plate light must be on the same side of the vehicle as the jerry can carrier.

If a wheel carrier is to be fitted without a jerry can carrier the wire for the number plate light should be on the same side of the vehicle as the wheel carrier.



14. Make sure when plug is connected to vehicle that wire is cable tied well clear of muffler and exhaust components that may melt it.



15. If a wheel carrier or jerry can carrier is not to be fitted a cover panel must be fitted.

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 for fitment of cover panel.

FITTING REAR BAR TO VEHICLE



16. To fit Rear Bar to vehicle, remove bumper bar, mudflaps and tow bar (if fitted) from vehicle.

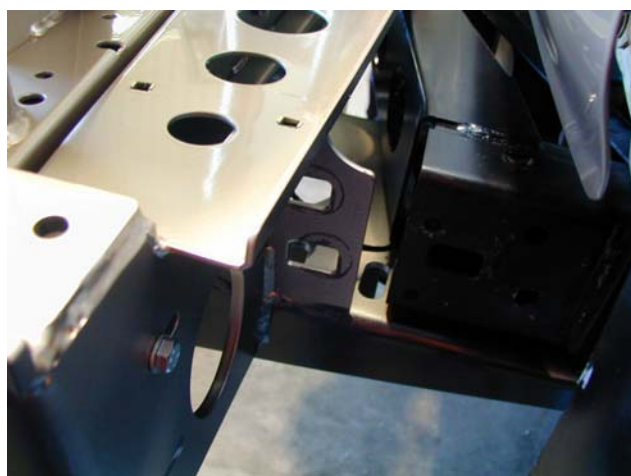
17. OPTIONAL

Paint lower rear quarter panel satin black.





18. Fit **M12 x 1.75 cage nuts** to chassis side plates so that bracket assemblies are left and right handed, and insert into ends of chassis rails.

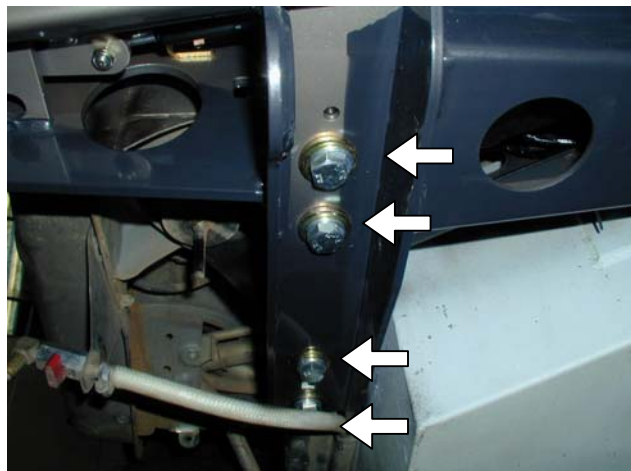


19. Slide bar onto rear of chassis leaving enough room to plug main loom into tail light assemblies on either side of vehicle.

20. When this is done push bar onto chassis until centre mount of bar is flush up against chassis cross member.



21. Fit two **M12 x 40 x 1.25 bolts**, spring washers and flat washers as shown into centre mounting bracket. (Finger tighten only.)



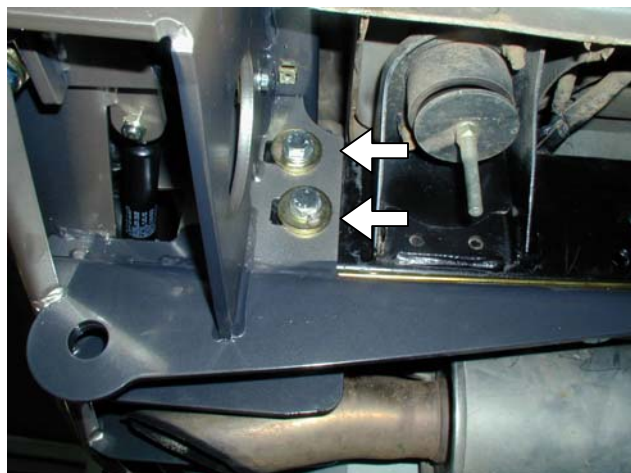
22. Fit eight **M14 x 40 x 1.5 bolts**, spring washers and large gold colored flat washers to underside of chassis rails. (LHS shown)
(Finger tighten only.)



23. From inside chassis fit **M12 x 35 x 1.25 bolt** with extension plate (shown below) and large gold colored flat washer down through cross member and RHS chassis bracket.

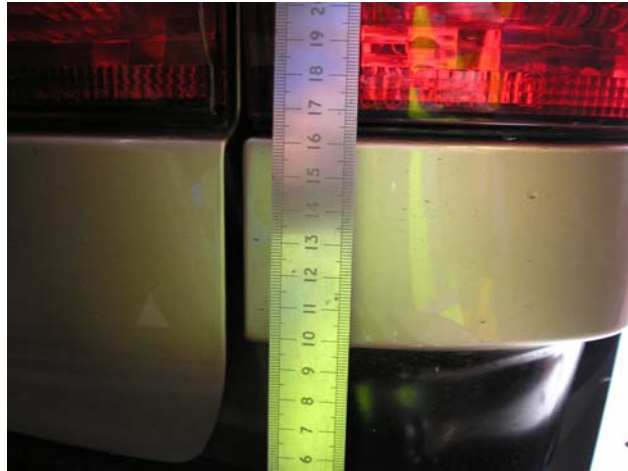


24. Secure with **M12 x 1.25 nut**, large gold covered flat washer and spring washer.



25. Fit two **M12 x 40 x 1.75 bolts**, large gold colored flat washers and spring washers into captive nut plates (installed previously – step16) on each side of vehicle.

Align nut plates using handle that protrudes through cut out in rear of bar.

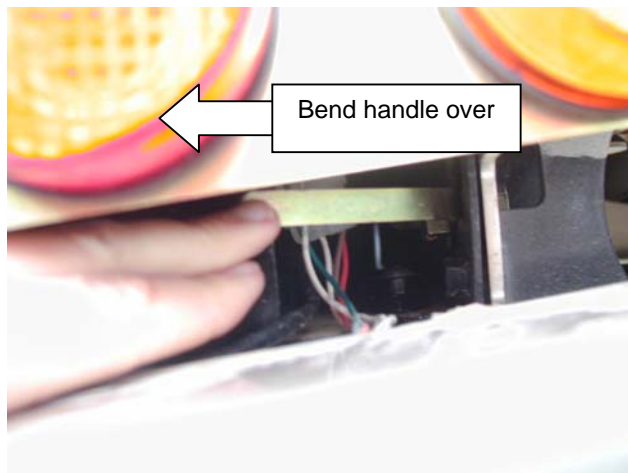


26. When all bolts are fitted, only tighten the M14 bolts on the underside of the chassis firmly using a socket or rattle gun.
27. Before tightening any other bolts, check to see if the rear bar is sitting level on the back of the vehicle. Check a measurement from a top surface of the bar to the underside of the tail light on each side of the vehicle.



28. If not level, remove bolts from the side that is too high and insert a spacer plate between the chassis bracket and the chassis.
(Arrow on plates faces towards front of vehicle.)
29. Replace and tighten bolts and recheck to see if the bar is level.

This process may need to be repeated until bar is level.
30. When level tighten all bolts securely.



31.

Bend over handles of nut plates so that struts are not destroyed when wheel carriers or jerry can carriers are closed.

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

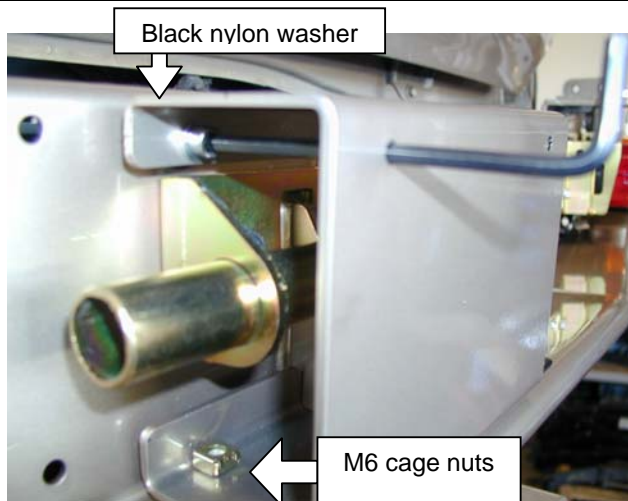
TO FIT JERRY CAN CARRIERS AND WHEEL CARRIERS, REFER TO FITTING INSTRUCTIONS SUPPLIED IN FITTING KITS WITH JERRY CAN CARRIERS OR WHEEL CARRIERS.

IF A JERRY CAN CARRIER OR WHEEL CARRIER IS NOT TO BE FITTED, THE COVER PANEL SHOULD BE ALREADY FITTED. (REFER TO STEP 13.)

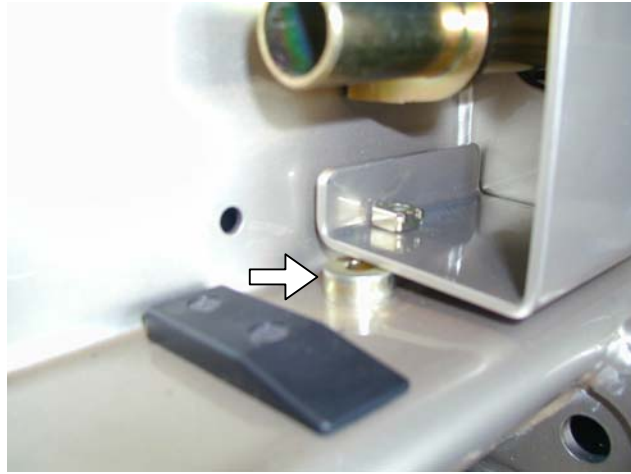
FITTING CENTRE COVER PANEL



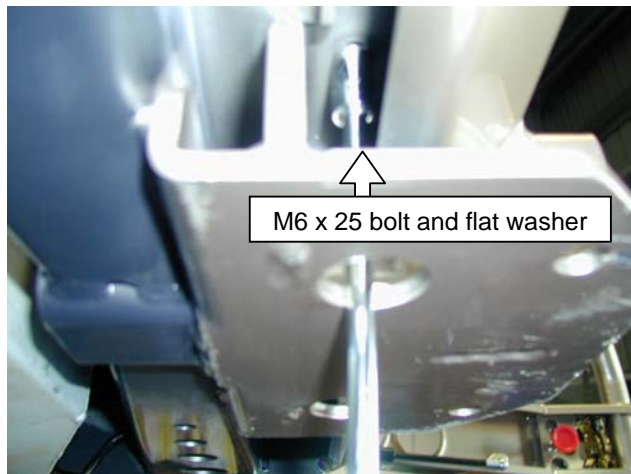
32. Compile the components as shown
- Centre cover panel
 - 2 x M6 cage nuts
 - 2 x M6 x 25 socket head cap screw stainless steel
 - 2 x M6 x 25 bolts
 - 4 x 6mm flat washers
 - 2 x black nylon packers
 - 2 x 8mm thick gold zinc spacers
 - 4 x 6mm spring washers



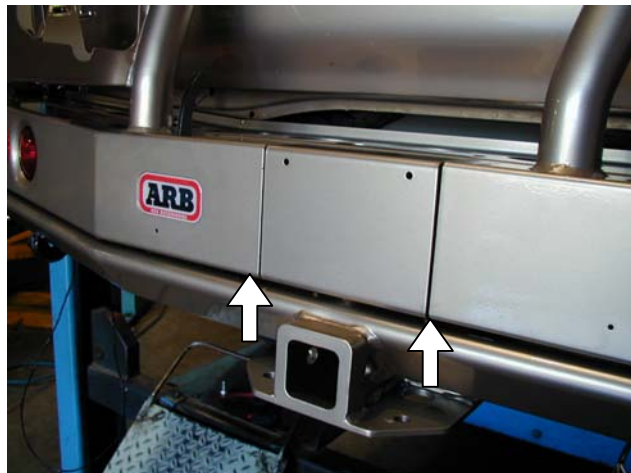
33. Place M6 cage nuts into lower section of centre cover panel.
34. Fit two **M6 x 25 stainless steel socket head cap screws** and flat washers through top flange inside cover panel as shown.
35. Place black nylon spacers on screws on outside of centre cover panel flange and attach to captive nuts in rear bar.
(Finger tighten only.)



36. Place 8mm spacer between underside of centre cover panel and rear bar.

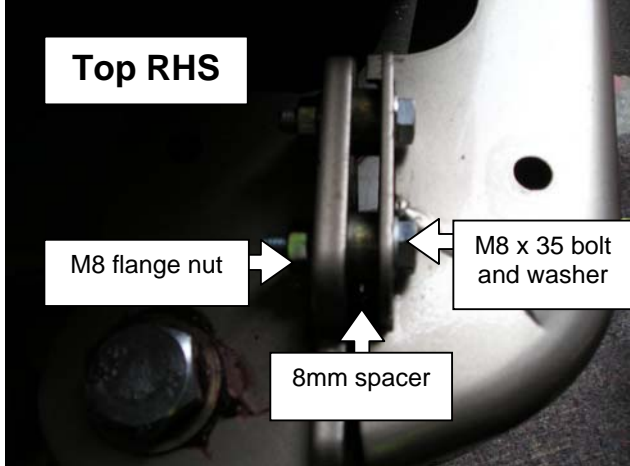

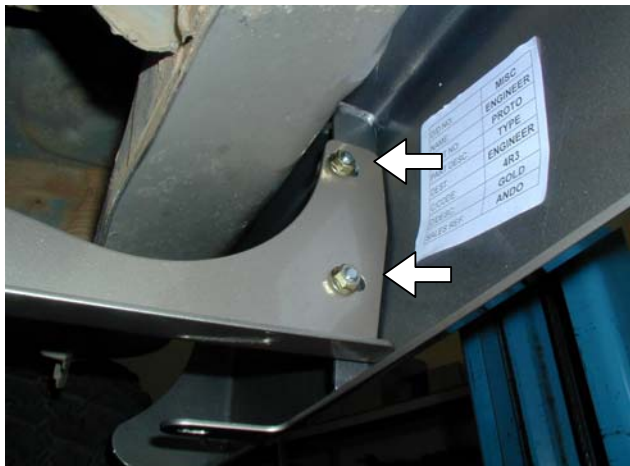


37. From underneath rear bar pass two **M6 x 25 bolts** and flat washers through the aligned parts and finger tighten.



38. Align faces of centre cover panel with wheel carrier, jerry can carrier or cover panel and tighten securely.

FITTING END SURROUNDS TO REAR BAR

 <p>Top RHS</p> <p>M8 flange nut</p> <p>M8 x 35 bolt and washer</p> <p>8mm spacer</p>	<p>39. The surrounds are attached to rear bar using three M8 x 35 bolts, flat washers and flange nuts per side.</p> <p>40. Place bolts and flat washers through the top two holes of the rear bar end plate as shown.</p> <p>41. Fit 8mm spacer to bolts, then fit end surround and secure finger tight with M8 flange nuts.</p> <p>42. Fit the lower bolt with washer, spacer and nut in the same sequence as the upper two. (Finger tighten only)</p>
	<p>43. Using M14 x 40 x 1.5 bolts, spring washers and large gold colored flat washers fit end surround braces to vehicle chassis. (RHS shown.) (Finger tighten only)</p>
	<p>44. Using M8 x 20 bolts, flat washers and flange nuts secure end surrounds to braces finger tight. (RHS shown.)</p>



45. Before tightening bolts fit urethane vertical trim between end plate and end surround.
46. Adjust trim to fit snugly around the rear bar and the end surround.



47. Align top face of end surround parallel with body of vehicle.
48. Starting in the top corner of the end surround and working backwards tighten all bolts.

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.



49. Fit reflector to end of buffer.
50. Fit urethane buffer to top of end surround using M6 nyloc nuts and large black flat washers.

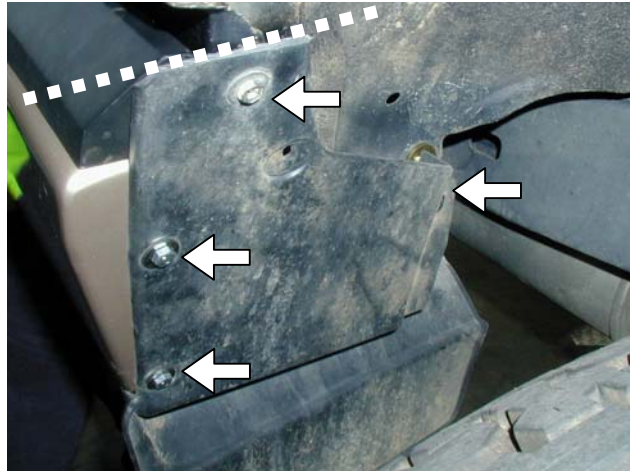
When fitting washers to studs under end surround smear flat washers with grease to hold them in place as shown below.



FITTING MUDDLAPS



51. Using **M6 x 16 bolt**, flat washer and flange nut, fit mudflap mount plate to vehicle.

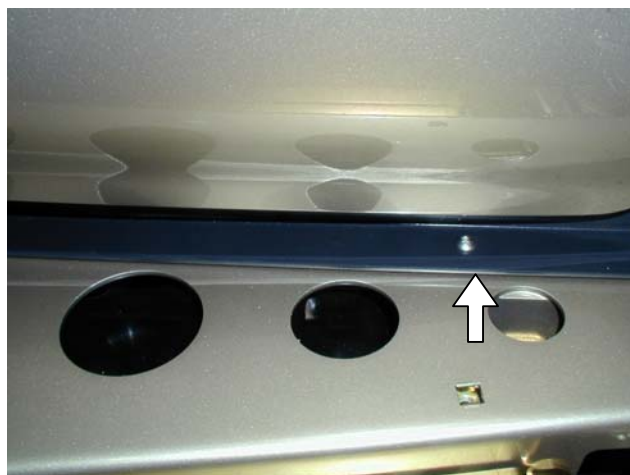


52. Fit mudflap top hole to original hole position of vehicle, then using M6 hardware, fit mudflap to rear bar end surrounds including lower end surround return as shown below.



53. Trim top of mudflap level with top of buffer along dashed line as shown.

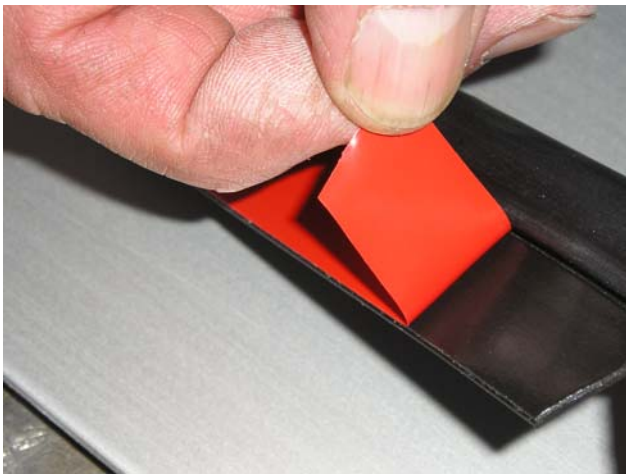
FITTING TOP INFILL PLATE AND ALUMINIUM STEP PLATE



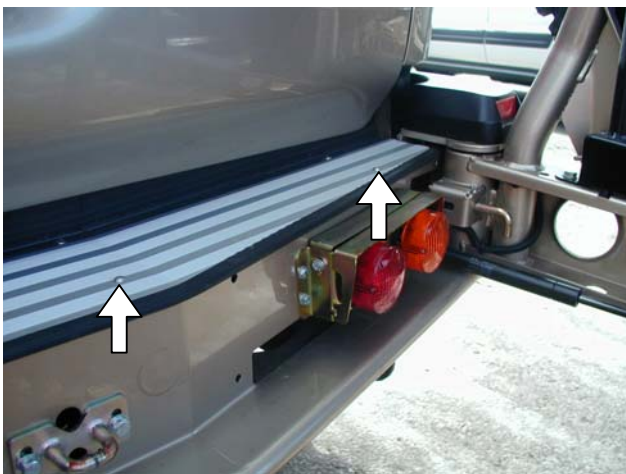
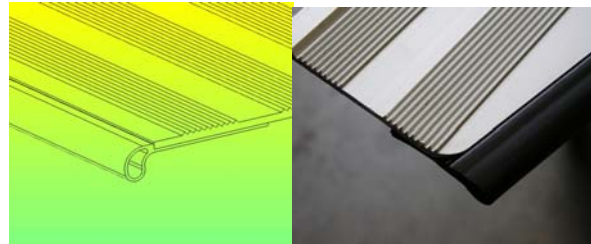
54. Using **M6 button head cap screws** fit top infill plate.



55. To fit rubber sealing strip to underside of aluminium step plate, lay strip on the underside of step plate and place so over hang 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.



56. Carefully remove backing from 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.



57. Using **M6 button head cap screws** fit aluminium step plate.



58. Fit gooseneck with pull pin and spring clip as shown.

