



FITTING INSTRUCTIONS

Part Number: **3438350 F/Kit 6173400**

Product **Deluxe Combination Winch and Non Winch Bull Bar**

Description:

Suited to **Nissan D40 Navara DC STX /R51 Pathfinder May 2010 ON (Spanish origin)**
vehicle/s:

WARNING

REGARDING VEHICLES EQUIPPED WITH SRS AIRBAG:

When installed in accordance with these instructions, the front protection bar does not affect operation of the SRS airbag.

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 bull bar component, contact your nearest authorised ARB stockist. Repairs or modifications to the impact absorption system 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 bull 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

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GENERAL CARE AND MAINTENANCE

By choosing an ARB Bar, 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:



- Prior to exposure to the weather your bar should be treated to a Carnubra based polish on all exposed surfaces. It is recommended that this is performed on a six monthly basis or following exposure to salt, mud, sand or other contaminants.
- 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.

FITTING REQUIREMENTS

REQUIRED TOOLS FOR FITMENT OF PRODUCT:

METRIC SOCKET SET	METRIC RING AND OPEN ENDED SPANNER SET
ELECTRIC DRILL	3 & 10mm DRILL BITS
SHARP KNIFE	PHILLIPS AND FLAT SCREW DRIVER SET
FELT TIP PEN	HACKSAW BLADE OR SMALL HAND SAW
FINE FILE OR SAND PAPER	ELECTRIC JIG SAW
METRIC TAPE MEASURE	ROLLS OF 25 mm & 50 mm WIDE MASKING TAPE

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
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft

NOTE:

- ◆ OPTIONAL FOG LAMPS TO SUIT THIS PRODUCT ARE P#6821201. IF LOOM AND SWITCH REQUIRED USE P#MD02 LOOM KIT, P#180209 SWITCH AND P#180215 SWITCH CAP FOR FOGS
- ◆ UP TO 900 SERIES ROUND OR 800 RECTANGULAR DRIVING OR FOG LAMPS SUIT THIS PRODUCT

PARTS LISTING

APPLICATION.	PART NO.	QTY	DESCRIPTION
MOUNT BRACKET (IMPACT ABSORBER) TO CHASSIS	3759042R&L	1 PR	BRACKET ASSY IMP ABS RH & LH
	6151095	8	BOLT M12 X 1.25 X 35 (FINE PITCH)
	4581049	8	WASHER FLAT M12
	4581050	8	WASHER SPRING M12
BULL BAR TO MOUNT BRACKETS	6151360	6	BOLT M12 X 1.75 X 35 (COARSE PITCH)
	4581007	6	WASHER FLAT M12 X 37 X 4
	4581050	6	WASHER SPRING M12
	6151428	6	NUT FLANGED M12
BUFFERS TO BULL BAR	3162470R&L	1 PR	BUFFER SLOTTED RH & LH
	6151128	12	NUT FLANGED M6
LICENCE PLATE TO BULL BAR	6151384	2	SCREW PAN HD PHIL BLK 5 X 16mm
	6821189	2	GROMMET RND HD
LIGHT INSERT AND INDICATORS	3163015	1	COMBINATION LIGHT SURROUND KIT
	6821151R&L	1 PR	INDICATOR/CLEARANCE LAMP RH/ LH
	6821233	1	LOOM INDICATOR LOW CURRENT
	6821276	1	LOOM EXTENSION KIT
GRILLE TO BAR	6522888	1	GRILLE PANEL
	6151300	2	CAGE NUT M6 (LONG LEG)
	6151213	6	BOLT M6 x 20 BZ
	4584295	6	WASHER FLAT M6 x 20 BZ
	4581287	6	WASHER SPRING M6 BZ
	6151128	4	NUT FLANGED M6
WINCH COVER (NOT FITTING WINCH)	6522895	1	PANEL WINCH COVER
	6151256	2	SCREW M6 X 16MM BUTTON HEAD S/S
	6151128	2	NUT FLANGE M6
	6191006	1	EXTRUSION WINCH COVER
	4581304	2	FLAT WASHER M6 S/STEEL
STONE TRAY TO BAR	6522889	1	STONE TRAY
	6151234	2	BOLT M8 x 25 mm LONG
	4581045	2	WASHER FLAT M8
	4581292	2	WASHER SPRING M8
	6151132	2	NUT FLANGE M8
	6151300	4	CAGE NUT M6 (LONG LEG)
	6151213	4	BOLT M6 x 20 BZ
	4581082	4	WASHER FLAT M6 x 20 BZ
	4581287	4	WASHER SPRING M6 BZ
	6151357	2	BOLT SEMS M10 x 25 mm LONG
6151321	2	NUT FLANGE M10	
WING PANELS TO BAR	6522890R	1	UNDERWING PANEL RH
	6522890L	1	UNDERWING PANEL LH
	6151300	10	CAGE NUT M6 (LONG LEG)
	6151213	10	BOLT M6 x 20 BZ
	4581082	10	WASHER FLAT M6 x 20 BZ
	4581287	10	WASHER SPRING M6 BZ
	3759048	2	UNDERWING PANEL BRACKET
	6151234	4	BOLT M8 x 25 mm LONG
	4581045	4	WASHER FLAT M8
	4581292	4	WASHER SPRING M8
6151132	4	NUT FLANGE M8	
PINNING BOLT HARDWARE	6151357	4	BOLT SEMS M10 x 25 mm LONG
	6151321	4	NUT FLANGE M10
MISCELLANEOUS	180302	12	CABLE TIES
	6191020	2	PINCH WELD 400mm NARROW LONG
	3787023	1	TEMPLATE BUMPER CUT

PREPARATION TO VEHICLE



1. Remove licence plate from the vehicle and set aside
2. Remove the three plastic scrivenets securing the bumper in the intake area behind the licence plate location
3. Remove the bolts from the spoiler between the lower bumper and sump guard
4. Remove the bolts and screws that attach the lower bumper tabs to the vehicle (refer to attached photo).



5. Remove the bolts and plastic rivets from the mud guard opening area each side that attaches the bumper bar to the plastic inner guard liner as shown.



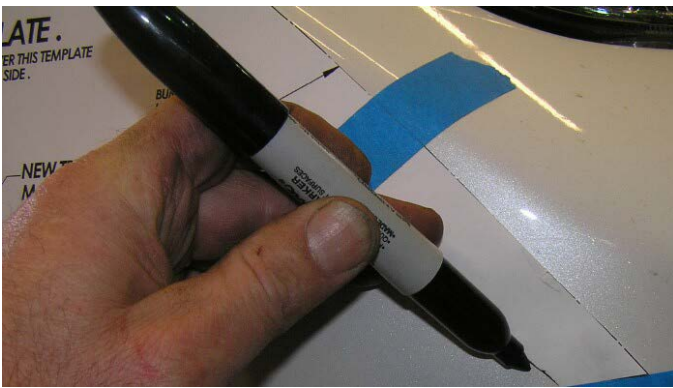
6. Cut out the supplied paper template
7. Fit the cutting template as shown, aligning the key reference points with the bumper then tape in position

PREPARATION TO VEHICLE



Mark Cutting line 30mm above atop of air intake

8. Mark the cutting line at 30mm above the air intake slot as shown using a marking pen or strip of tape, in a total of three places, at the middle of the opening and at the outer corners. This line is basically horizontal.



9. Mark the cutting line all along the contour edge of the template with a marking pen
10. Remove and reverse then fit the template to the LHS, mark the cutting line once again.



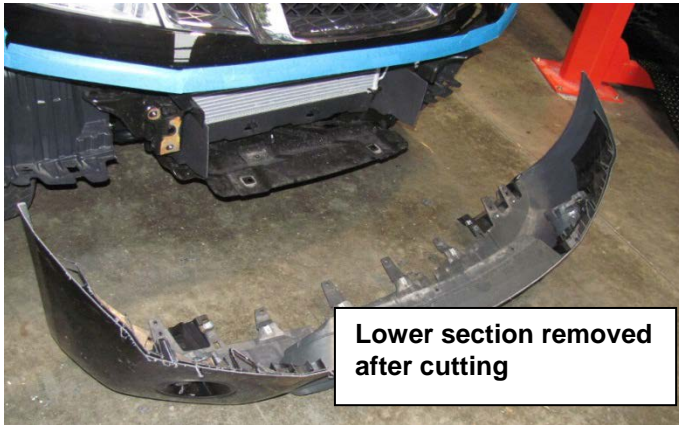
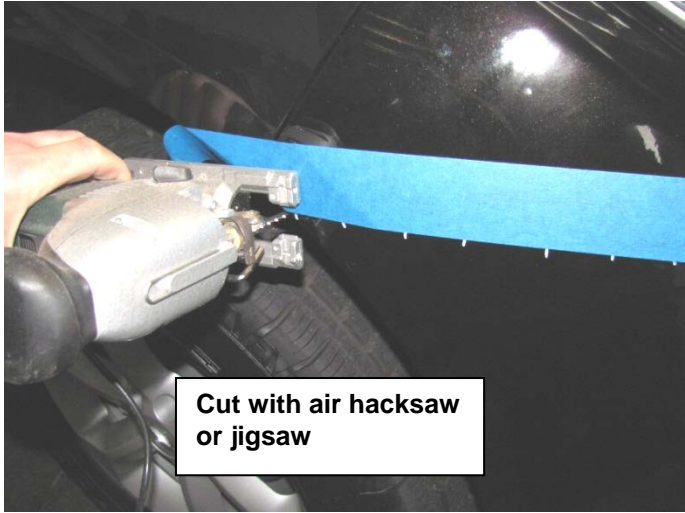
Marked out and taped up ready for cutting

11. Remove the template then mask along the area to be cut using 50 mm masking tape, with the lower edge on the cutting line and the tape as shown to protect the kept surrounding surfaces.



Side on view

PREPARATION TO VEHICLE



12. Cut from wheel arch area first on each side with the electric jig saw, a second cut may be necessary to fully cut the support structure that sits behind the bumper bar.
13. With the aid of a helper, cut across the front of the bumper, with your helper supporting the lower cut away section and disconnecting the fog lamps as you cut and remove it
14. Clean up the cut edges of the bumper bar with a file or fine sand paper.

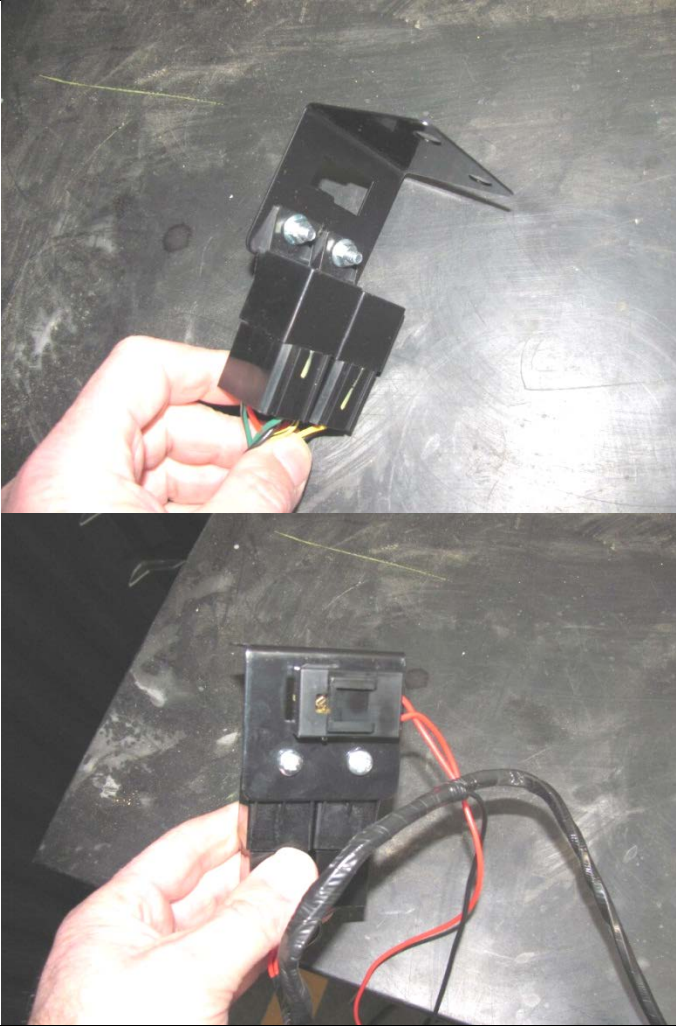


15. Starting at the wheel opening end pull the outer bumper outward slightly and slip the pinch weld trim over the cut edge and work the trim forward.

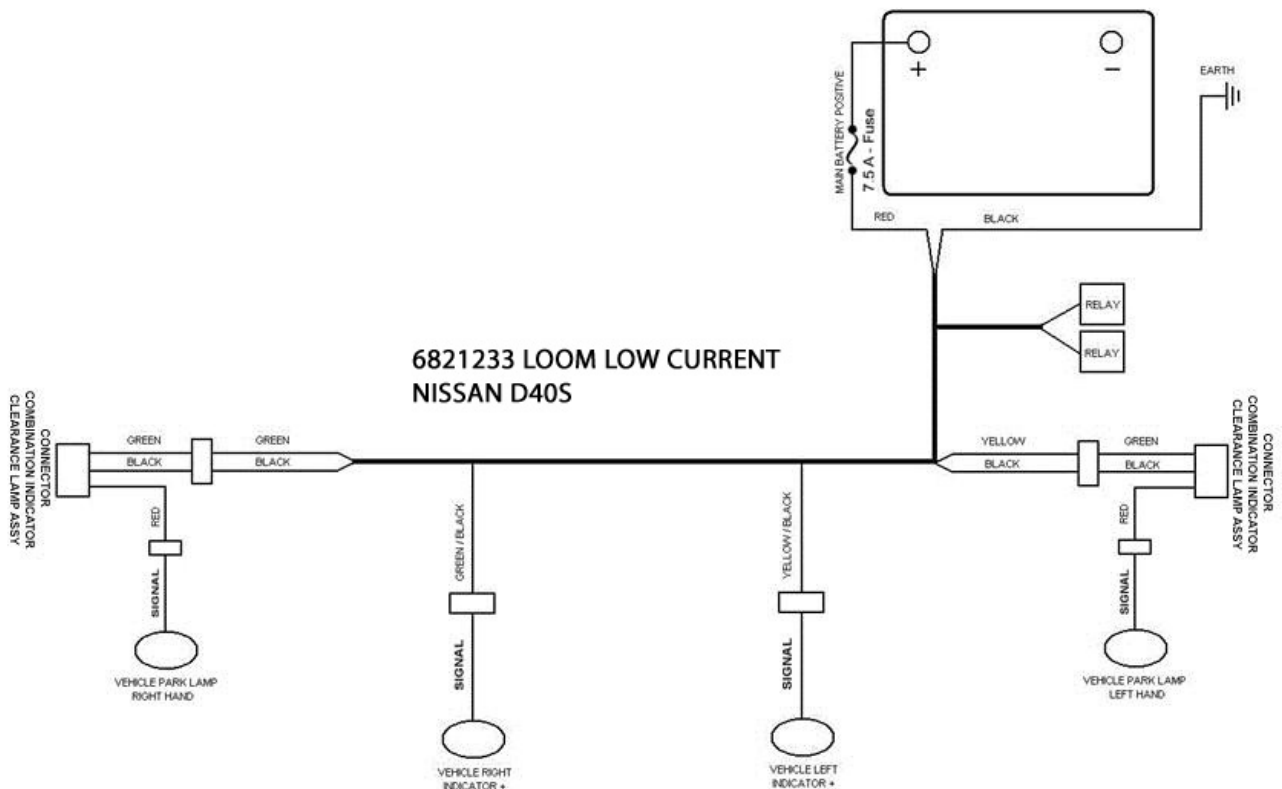
HINT: You can use a flat blade screwdriver to prise the bumper away from the reinforcing structure behind so the trim can be inserted

PREPARATION TO VEHICLE

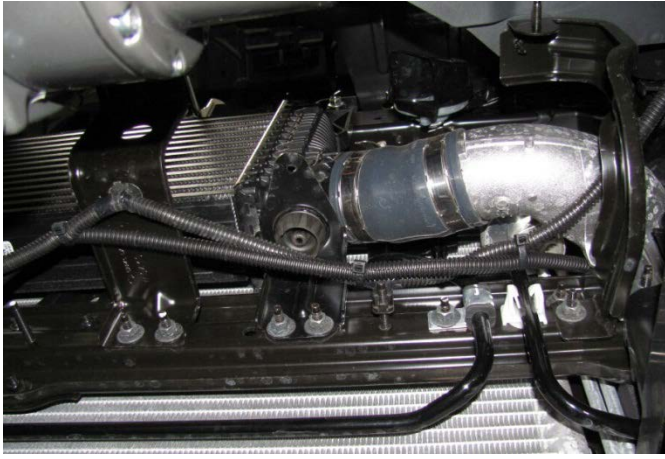
WIRING FOR INDICATORS AND CLEARANCE LAMPS



16. Take the 6821233 supplementary loom and fit the supplied relays in the kit to the supplied bracket in loom fitting kit as shown using the supplied M5 fasteners
17. Then fit the fuse to the front of the bracket using one of the same screws to secure relay



PREPARATION TO VEHICLE



18. Familiarise yourself with the supplied wiring diagram P7
19. Take the relay loom and roughly position in the engine bay, with the loom routed along the cross member in front of the radiator to the LH side of the vehicle and check that all wires will reach the appropriate connections on the vehicles indicator lamp wiring.



20. Starting with the LH or passenger side of the vehicle, disconnect the indicator and clearance lamps
21. Connect the loom plugs then continue on the RH of vehicle
22. Mount the relay bracket to the RH side of the hood opening as shown.

NOTE: Always mount the relay upright to help prevent water ingress.

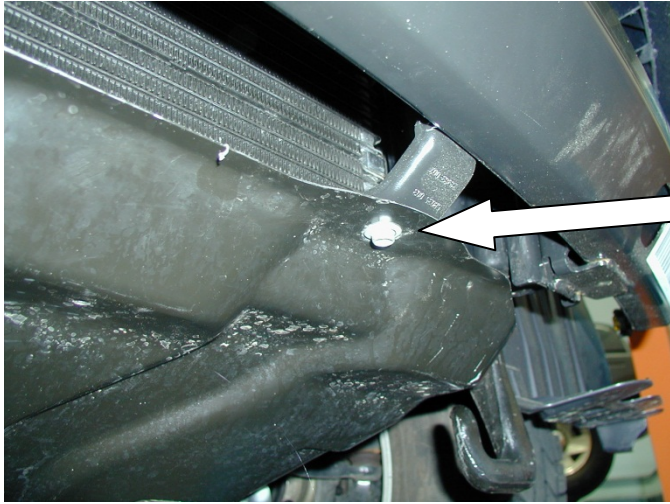


23. Run the main black wire to a suitable earth.
24. Connect the main power wire (red) to the positive terminal of the battery. (Main battery if a dual battery system is installed)

Note: In some cases due to the size of the battery the red main power cable is not long enough to reach from the relays. If this is the case, install the supplied loom extension 6821276

25. Using the cable ties supplied, secure the loom each 200mm keeping clear of any hot, sharp or moving surfaces.

PREPARATION TO VEHICLE



CONTINUE WITH MECHANICAL PREPARATION OF VEHICLE

26. Remove the bolts that hold the factory steel sump guard to the crash beam. Leave the guard attached to the cross member.



27. The four bolts that hold the bumper reinforcement beam can now be removed and set aside.

28. Remove tow hook and set aside. *Hook will be reused as well as bolt set*



29. Install the impact absorber set (RHS SHOWN)

30. **Fit loose to hand tight to allow for adjustment**, using 4 x M12 x1.25 X 35 bolt, flat washer and spring washer sets per mount. **Do not get these bolts confused with the M12 course pitch bolts used to mount the bar to the impact absorbers.**

31. Refit the tow bracket using the original long bolts removed above. If the tow bracket is not being refitted, the supplied M12 x 35 long bolts should be used.

BULL BAR PREPARATION



32. Fit the buffers to either side of the bull bar using 6 x M6 flange nuts. Do not over tighten.

Note: If fitting a winch, do so now following fitting instructions 3787989 supplied with winch install kit 3540050 then proceed to step 37.



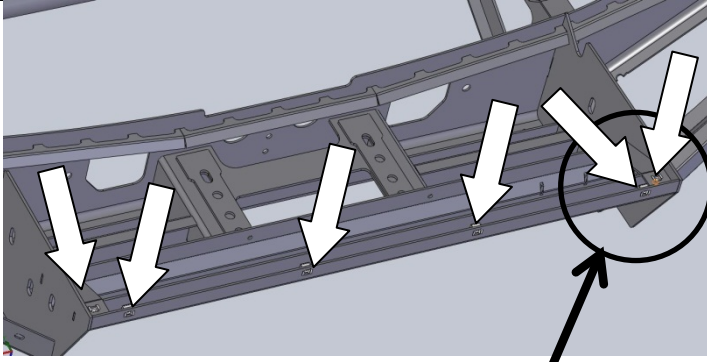
IF NOT FITTING A WINCH

33. Apply rubber mould to edge of winch hole cover panel and trim off excess.

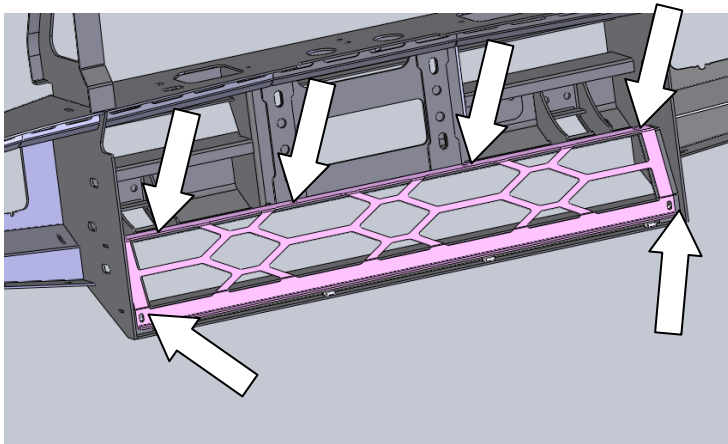
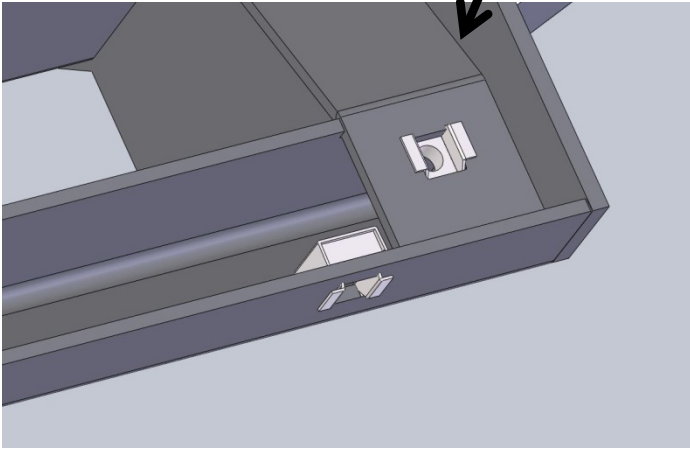


34. Fit panel to top face on bull bar using 2 x M6 dome head stainless steel screws, flange nuts and flat washers.

BULL BAR PREPARATION

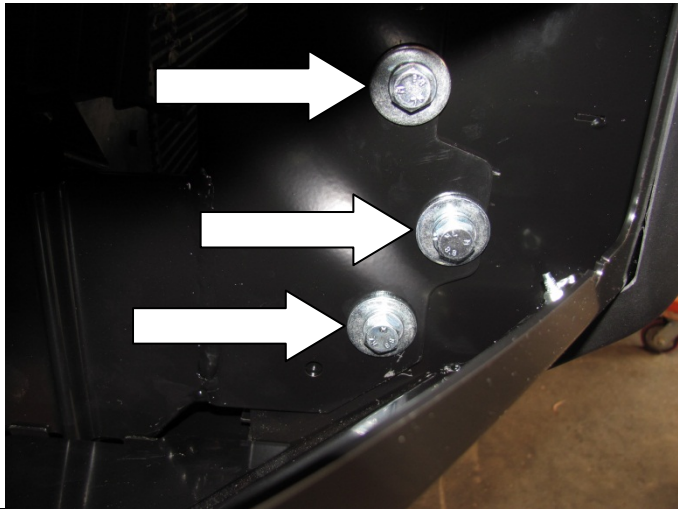


35. Fit 6 M6 caged nuts into the bottom cross bar on the bar as shown.



36. Fit the grille as shown using M6 x 20 screws, M6 spring washers and M6 flat washers into the cage nuts fitted above and with M6 flange nuts into the 4 holes in the top of the grille. The nuts should be on the inside of the bar.

BULL BAR FITMENT TO VEHICLE



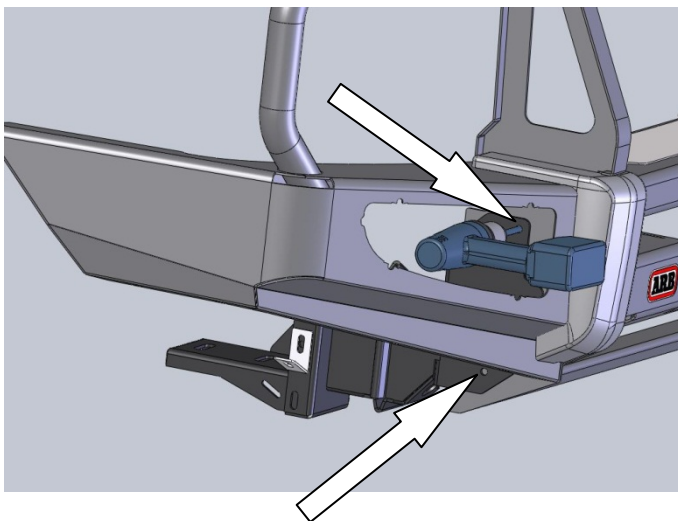
37. With assistance guide the bull bar into position on the vehicle. The uprights on the bull bar sit inside the impact absorber blades.
38. Bolt the bull bar into position using the M12 bolts, spring washers, and large body washers from the outside and flange nuts 3 placed inside for each side of bull bar as shown. Nip up the bolts – but allowing for the bull bar to be final adjusted



39. Ensure the bull is sitting on the vehicle level and the gap between the bumper bar and the bull bar wing is parallel.

15 / 18 mm (5/8") GAP
REQUIRED

40. If the bar is not centred on the vehicle, tap the mount brackets sideways with a soft hammer until the bar is central
41. Once happy with the position of the bull bar and the clearance gap is between 15mm – 18 mm tighten all the mount bolts to specified torque



42. Using an electric drill and an Ø10.0 mm drill bit, drill two pinning bolt holes through the bull bar upright each side using the holes in the mount bracket flanges as a guide. Use access through the light surround opening for the top hole.
43. Pin the bar to the mounts using 2 x M10 SEMS bolts and M10 flange nuts in each side.



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

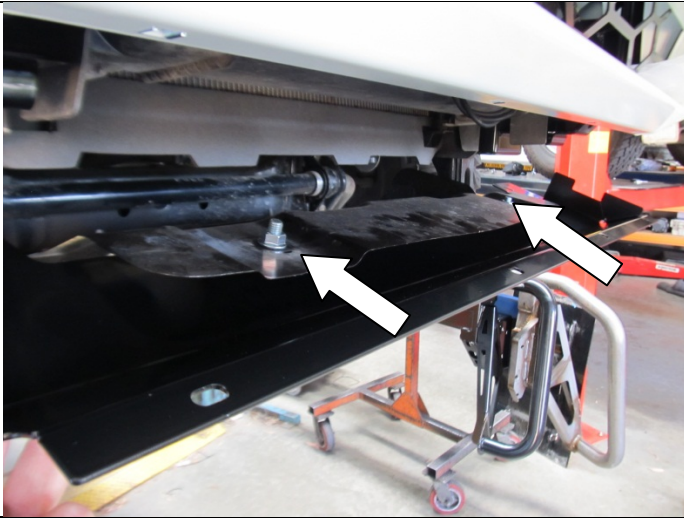
BULL BAR FITMENT TO VEHICLE



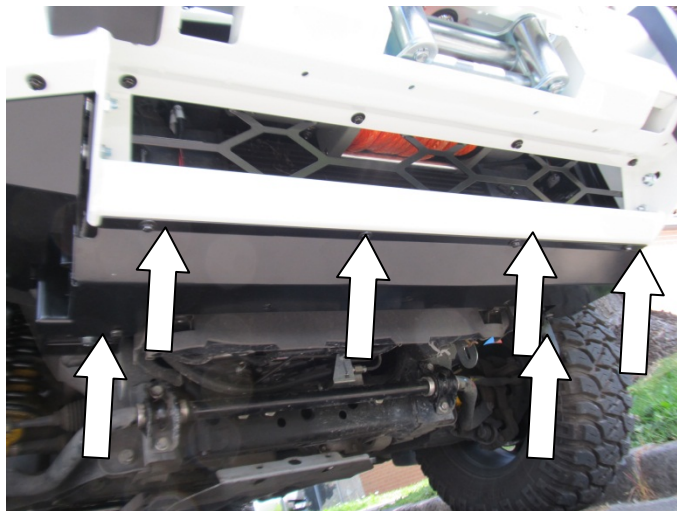
44. Assemble and install combination light surrounds (p/n 3163015) as per instructions no. 3786421 supplied with surround kit. Note: Optional fog lamps can be installed at this point as per fitting instruction no. 3783315 supplied with fog lamp kit no. 6821201.

45. Connect the lamp loom to the small extension loom.

Caution: Cable tie all cables together and keep all cables clear of sharp edges and moving parts.



46. Attach the stone tray to the front of the factory stone shield using 2 M10 SEMS bolts and M10 flange nuts. Leave loose at this stage.

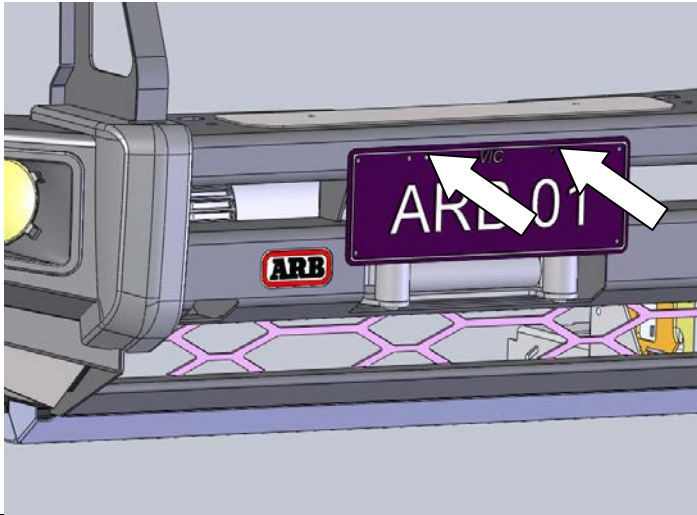


47. Attach the stone tray to the front of the bar using 4 M6 x 20 screws, M6 spring washers and M6 flat washers into the cage nuts fitted in the lower cross beam of the bar.

48. Attach the rear of the stone tray to the bottom face of the mount brackets using M8 x 20 screws, M8 spring washers, M8 flat washers and M8 Flange nuts.

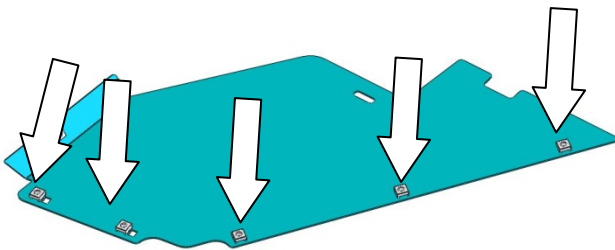
49. Tighten all fasteners to the above specified torque.

BULL BAR FITMENT TO VEHICLE

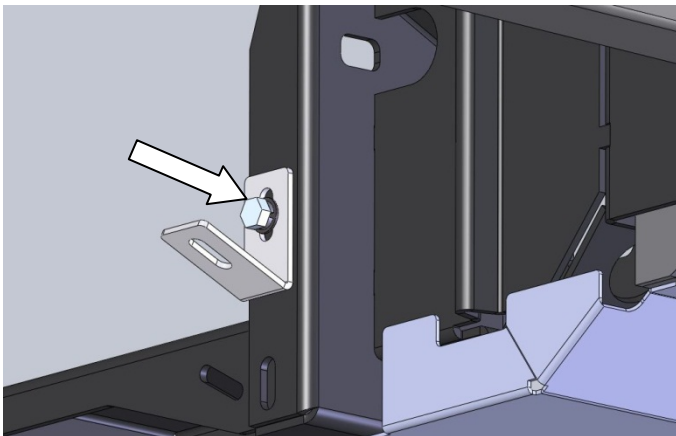


1. The licence plate can now be attached to the bull bar. Insert the two plastic square plugs supplied into the two square holes in the face of the bull bar. The grommets must be oriented so they will engage correctly when the screw is inserted (slits horizontal)
2. Using the two pan head screws supplied screw into position firmly.

Note: If a winch is fitted, fit the folding number plate bracket supplied in winch install kit 3540050.

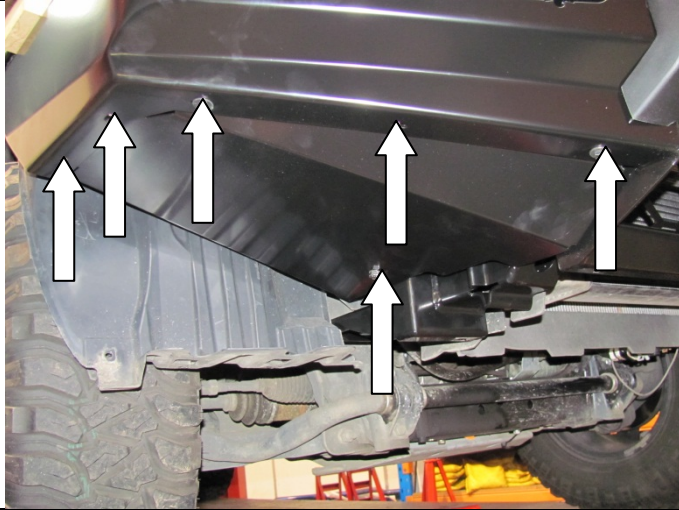


3. Fit 5 M6 cage nuts into each of the under wing panels.

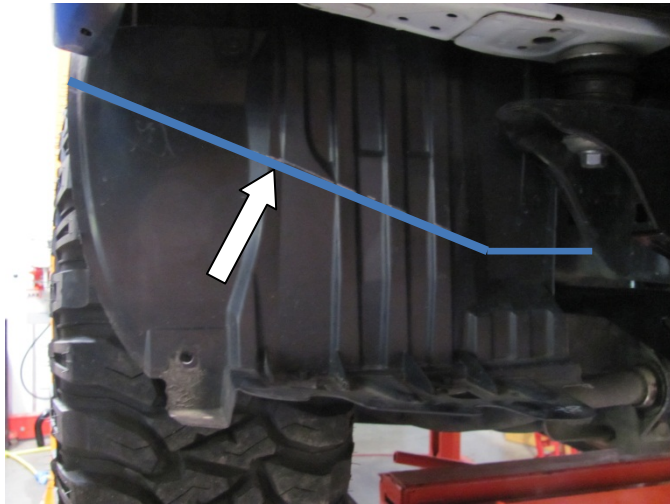


50. Attach an under wing panel bracket to the side of each of the mount brackets using an M8 x 25 bolt, M8 spring washer, M8 flat washer and M8 flange nut in each side.

BULL BAR FITMENT TO VEHICLE



51. Fit the under wing panels to the wings of the bar as shown. Attach using M6 screws, M6 spring washers and M6 flat washers along the wing edge and an M8 x 25 bolt, M8 spring washer, M8 flat washer and M8 flange nut into the bracket installed above in each side.

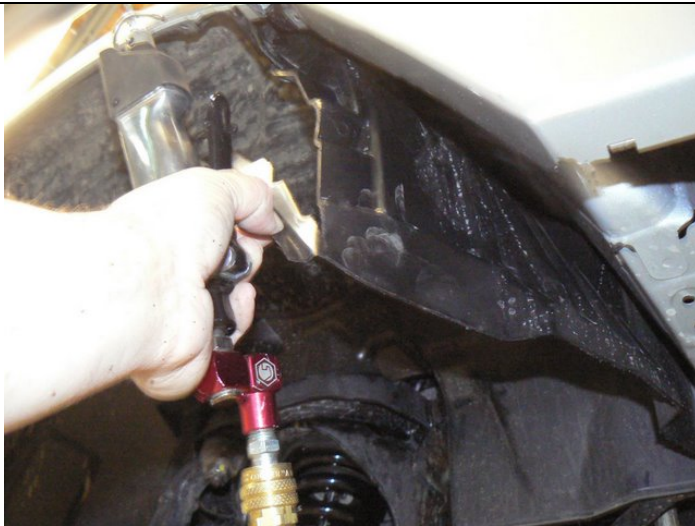


52. Mark a line along the bottom edge of the under wing panel on the inner guard liner on each side of the vehicle.

53. Remove the under wing panels and place aside.

54. Using a knife, scissors or snips, cut along the marked lines removing the lower sections of the inner guard line. Discard cut pieces.

55. Refit the under wing panels ensuring the bottom edge of the inner guard liner is tucked in.



4. Trim the inner guard liner vertical edge so that it has about 20mm (3/4") overlap to clip in behind wing return

BULL BAR FITMENT TO VEHICLE



5. Push the outer edge of the liner forward past the wing return edge so that it snaps in against the wing brace as shown.

ONCE BAR IS FITTED:

- ◆ Ensure all bolts are tensioned correctly
- ◆ All wiring is clear of sharp edges or moving surfaces and secured properly
- ◆ Piping is secured well away from sharp or moving components
- ◆ Check operation of winch if fitted
- ◆ Check all wiring and turn signal lamps are functioning correctly

FITTED PRODUCT

