

ARB FITTING INSTRUCTIONS

ARB WINCH/NON WINCH BUMPER TO SUIT NISSAN GU PATROL

PRODUCT No **3917130**
 5100050 Top Tube Kit
 5100160 Buffer Kit – With hole (required when fitting Top Tube)
 5100170 Buffer Kit – With no hole
FITTING KIT No **6172354**

WARNING

FOR VEHICLES EQUIPPED WITH SRS AIRBAG
WHEN INSTALLED IN ACCORDANCE WITH THESE INSTRUCTIONS, THE FRONT PROTECTION BAR DOES NOT AFFECT OPERATION OF THE SRS AIRBAG.

TAKE NOTE OF 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.**

OPTIONAL LIGHT SETS TO SUIT THIS PRODUCT:

- **ARB 6821201 Fog Light Kit Suit 3163015**
- **Up to IPF 900 SERIES FOG OR DRIVING LIGHT SETS**

IMPORTANT

This winch bumper is suitable only for Warn 9000lb and 9500lb winch.

Tools Required

10mm, 18mm, 19mm, 21mm Spanners and Sockets. Phillips head screwdriver, Cordless Drill with Philips head tip (Optional)

USE	PART No	QTY	DESCRIPTION
CHASSIS BRACKET TO WINCH BUMPER	3756395L	1	CHASSIS BRACKET LHS
	3756395R	1	CHASSIS BRACKET RHS
	6151255	4	BOLT M12 X 40 X 1.75 PITCH
	6151189	4	NUT M12 1.75 PITCH
	4581050	4	WASHER SPRING M12
	4581071	4	SHOULDER WASHER
	4581070	8	WASHER M12
CHASSIS RAIL EXTENSION FITMENT	4581088	2	BOLT CHASSIS RAIL EXTENSION ADJUSTER
	6151189	2	NUT M12 X 1.75 PITCH
WINCH AND ROLLER FAIRLEAD FITMENT	4581040	4	M10 FLAT WASHER
RUBBER EXTRUSION FITMENT	6821116	16	SQUARE PLASTIC PLUG
	6151176	16	SCREW SELF TAPPING 12mm 8G
	6191002	2	EXTRUSION
	3193614	2	MOUNT STRIPS
WINCH BUMPER TO VEHICLE	6151096	8	BOLT M12 X 40 X 1.25 PITCH
	6151135	2	NUT M12 X 1.25 PITCH
	4581049	2	WASHER M12
	4581050	8	WASHER SPRING M12
	4581007	7	WASHER HEAVY DUTY M12
	4581008	2	WASHER HEAVY DUTY M12 OFFSET
	6151087	2	BOLT M10 X 25
	6151133	2	NUT M10
	4581040	4	WASHER M10
	4581048	2	WASHER SPRING M10
BUFFER FITTMENT (5100160 Required if fitting Top Tube)	6151128	12	NUT FLANGE M6
	3162153	1	BUFFER LHS
	3162154	1	BUFFER RHS
BUFFER FITTMENT (5100170 Required if not fitting Top Tube)	6151128	12	NUT FLANGE M6
	3162471L	1	BUFFER LHS
	3162471R	1	BUFFER RHS
BUFFER LOWER FITTMENT	6151128	5	NUT FLANGE M6
	3162155	1	BUFFER LOWER
TOP TUBE FITTMENT (5100050)	6151255	2	BOLT M12 X 40mm
	4581049	2	WASHER FLAT M12
	4581050	2	WASHER SPRING ½"
	6131516	1	TOP TUBE
CONTROL BOX FITTMENT	3751809	1	CONTROL BOX BRACKET
	6151017	2	BOLT M6 X 16MM
	6151128	4	NUT FLANGE M6
WINCH COVER FITTMENT	6151128	2	NUT FLANGE M6
	6151256	2	SCREW M6 S/STEEL BUTTON HEAD
	6191005	1	WINCH COVER EXTRUSION
	6521031	1	WINCH COVER
	4581072	2	WASHER ¼ x ¾

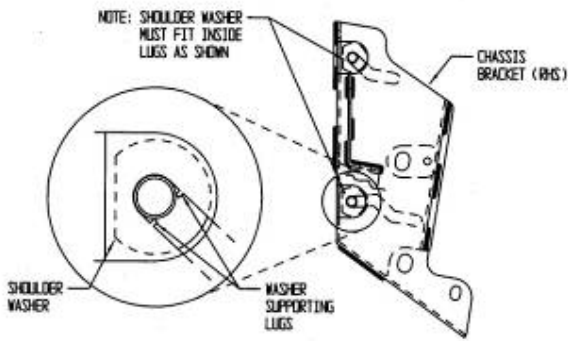
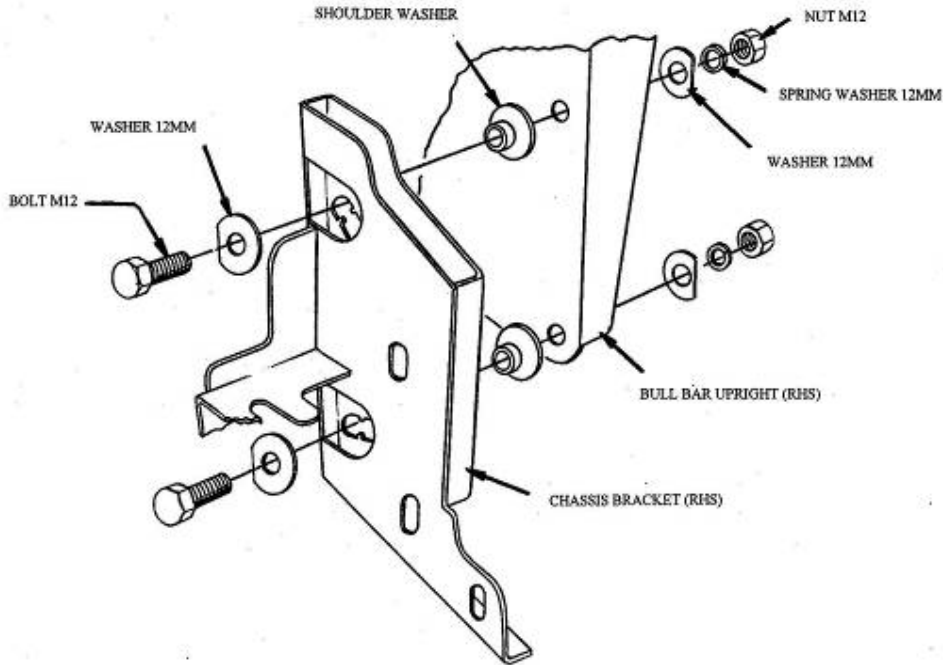
NUMBER PLATE FITTMENT	6151017	2	BOLT M6 X 16mm
	6151128	2	NUT FLANGE M6
	6781408	1	TAPE DOUBLE SIDED
LIGHT HOUSING	3163015	1	COMBINATION LIGHT SURROUND KIT
	6821151L	1	TURN SIGNAL/CLEARANCE LIGHT
	6821151R	1	TURN SIGNAL/CLEARANCE LIGHT
CB AERIAL	3162152	2	PLASTIC PLUG
WIRING	6821152	2	TURN SIGNAL / CLEARANCE LIGHT LOOM
	180701	6	SCOTCH LOCK
	6821152	1	LOOM
	180302	10	CABLE TIE
AIR DEFLECTOR FITTMENT	6522012	1	AIR DEFLECTOR
	6151017	4	BOLT M6 X 16
	6151128	4	NUT FLANGE M6
	4581072	8	WASHER ¼ x ¾

ASSEMBLY SEQUENCE.

1.

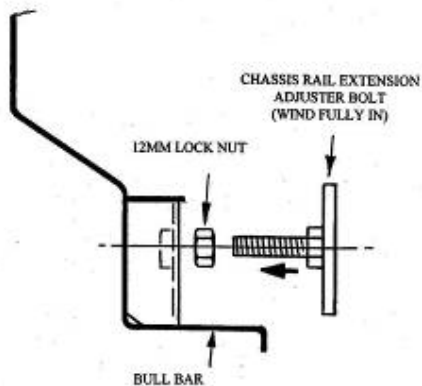
1. The two chassis brackets are bolted to the winch bumper for transit purposes and must be removed.
2. Remove the bumper bar from the vehicle.

2.



1. Assemble the two chassis brackets to the winch bumper using two per side M12 x 40 course pitch bolts, M12 heavy duty washers, flat washers, shoulder washers, flat washers, spring washers and nuts. Tighten the bolts and torque to 110NM or 80FT LB.

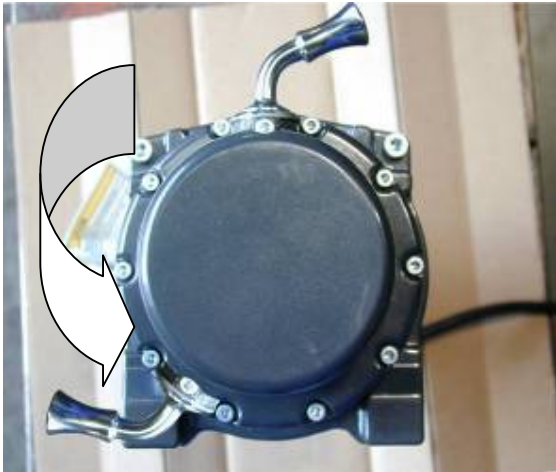
3.



1. Assemble a M12 nut to each chassis rail extension adjuster bolt and screw fully into the winch bumper. Do not tighten, as this will need to be adjusted later.

ASSEMBLY SEQUENCE.

4.

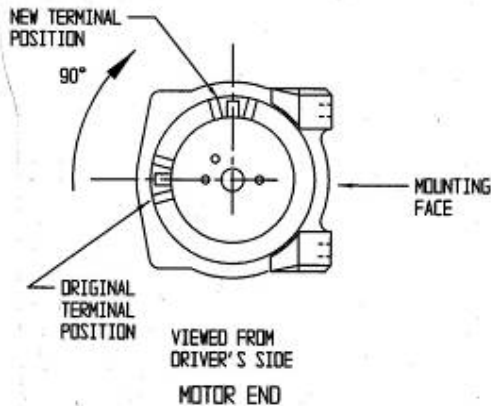


(If fitting the winch.)

1. To place the winch clutch handle in a convenient location the winch gearbox must be rotated 4 hole spacings, 144 degrees, in an anti-clockwise direction when viewed from the gearbox end. Place the winch on its end and remove all gearbox bolts. Gently raise the gearbox just enough to rotate it. Do not completely remove the gearbox and avoid damaging the gasket. Refit all bolts and tighten.

NOTE: Take care not to lift the assembly more than a couple of millimetres while rotating to the desired position to avoid unmeshing the gears.

5.



1. To place the winch motor in the correct location the winch motor must be rotated 90 degrees, in a clockwise direction when viewed from the motor end. Place the winch on its end and remove the 2 motor retaining bolts. Gently raise the motor just enough to rotate it. Do not completely remove the motor and avoid damaging the gasket. Refit all bolts and tighten.

NOTE: Take care not to lift the assembly more than a couple of millimetres while rotating to the desired position to avoid unmeshing the gears.

6.

1. Install the winch using bolts, nuts and spring washers supplied by Warn, and the 4 x 3/8" flat washers supplied in the bolt kit. Refer to Warn installation instructions for correct procedure. Adjust winch in slots until the winch is centralised in the bull bar.

NOTE: The gearbox is on the passenger side for the 8,000lb and 9,000lb. The cable spools from the bottom for the two winches mentioned.

ASSEMBLY SEQUENCE.

7.



1. The rubber extrusion contains a support section to assist in the moulding. Remove this section by tearing at one end. Discard this section.
2. Insert the square plastic plugs into the square holes on the top face of the wing.

8.



1. Insert the mount strips inside the channel section of the rubber extrusion. Make sure the flap section is on the outer side. Allow generous even amounts of excess at either end of the strip so that it can be trimmed later.

9.



1. Using a Philips head screw driver or cordless drill with a Philips head tip fix the extrusions to the top of the wings using the self tapping screws.

ASSEMBLY SEQUENCE.

10.



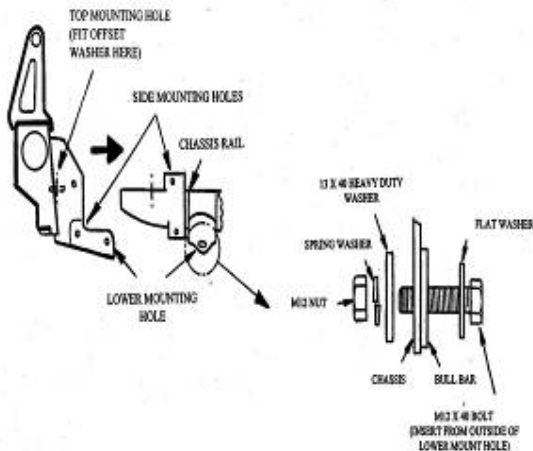
1. Using a sharp knife cut the excess rubber in line with the inside end of the wing. Only cut the inside excess, the other end will be cut when the winch bumper is fitted.

11.



1. With the aid of another person, lift the winch bumper on to the vehicle.

12.

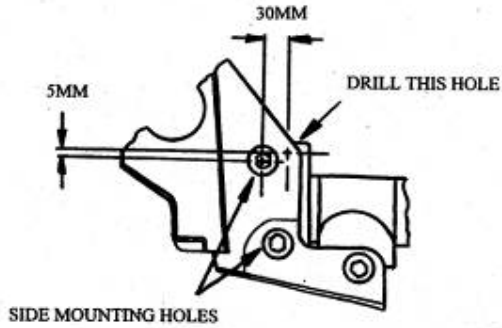


1. Bolt the winch bumper into place using the M12 x 40mm fine pitch bolts, heavy duty washers and spring washers. (Do not tighten.)
2. Adjust the bull bar to achieve a uniform gap to the grill and mudguards. Tighten the bolts and torque to 110NM or 80FT LB. (Refer to diagram 4.)

NOTE: Due to variations in the vehicle chassis rails it may be necessary to place a packer between the chassis rail top bolt and the winch bumper. A heavy duty washer is supplied for this purpose.

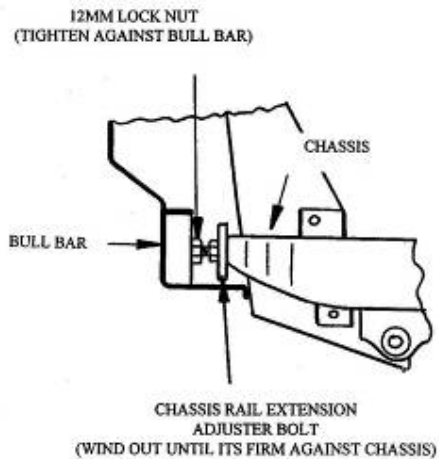
ASSEMBLY SEQUENCE.

13.



1. Drill both sides of the winch bumper and chassis rail brackets with a 10 mm drill in the position shown below and pin with 2 M10 x 40 bolts, flat washers, spring washers and nuts.

14.



1. Wind each chassis rail extension adjuster bolt out until it's firm against the chassis rail extensions and tighten the lock nut.

15.



1. Position the lower buffer on the winch bumper and assemble using the M6 flange nuts.

ASSEMBLY SEQUENCE.

16.



1. Fit the buffers. Buffer studs fit through the slots in the wings and the pan. Fasten using M6 flange nuts.

Note: This applies to both blank buffers and for those with the hole for optional Top Tube.

CAUTION: DO NOT OVER TIGHTEN THE M6 NUTS AS YOU RISK PULLING THE STUDS OUT OF THE BUFFERS.

17.



IF FITTING TOP TUBE

1. Push the tube through the holes in the top of the buffer and fix using the M12 X 40mm bolts washers and spring washers.

18.

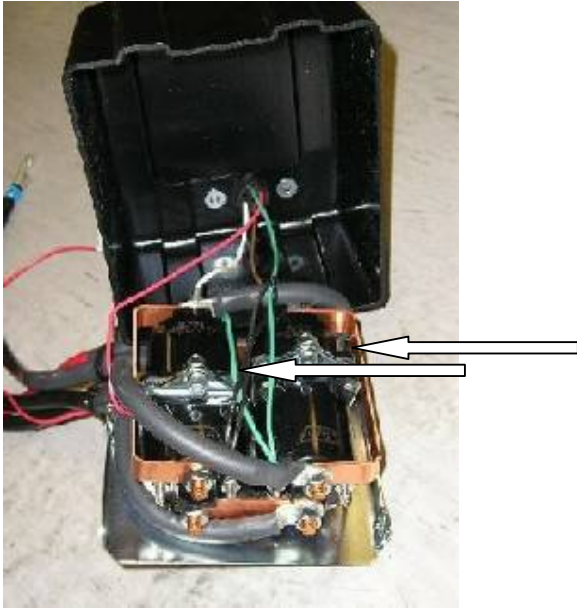


If fitting the XP 9.5 winch proceed to step 18. For any other winch, go to step 24.

1. Remove the cover from the control box.

ASSEMBLY SEQUENCE.

19.



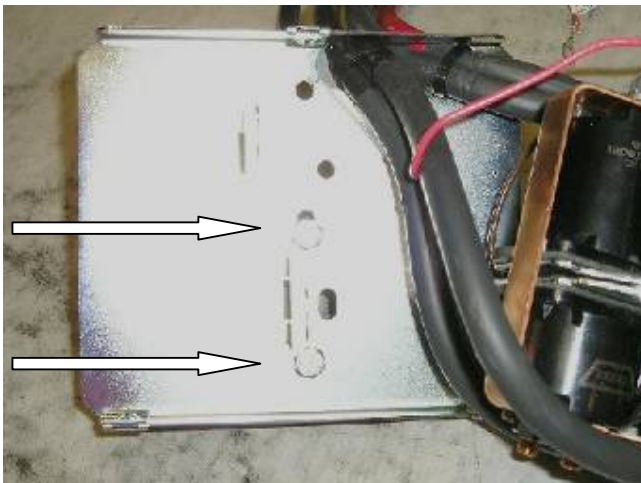
1. Remove the two cap screws, nuts and spacer washers that hold the four solenoids in place.

20.



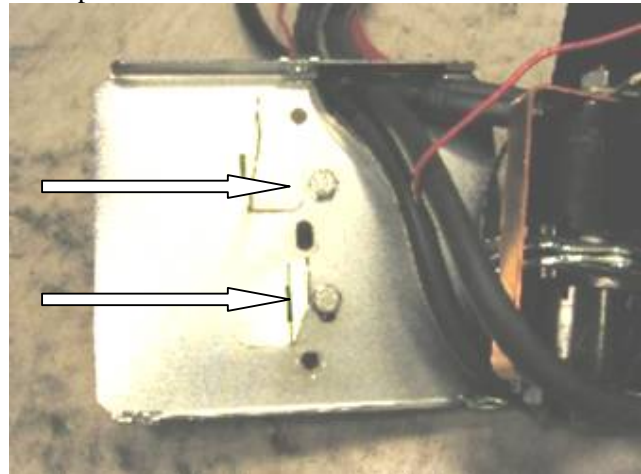
1. Remove the four solenoids from the base of the control box using the copper bus bar as an aid and hold to one side.

21.



Before

1. Remove the two bolts in the base of the control box and reposition them into the more centralised holes



After

ASSEMBLY SEQUENCE.

22.



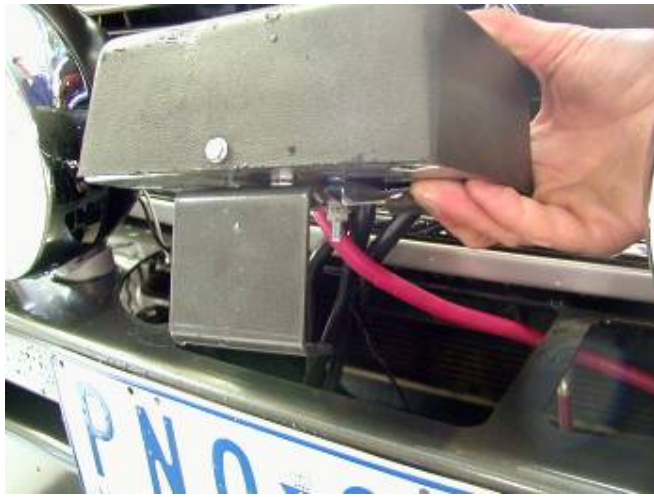
1. Place the 4 solenoids over the 2 metal stands that are facing upwards. Make sure they line up with the holes in the base.

23.



1. Replace the 2 cap screws, washers and nuts removed in step 19 above into original holes.
2. Replace the black cover and refit the three cover screws (DO NOT OVER TIGHTEN)

24.



(If fitting with winch)

1. Assemble the control box bracket to the control box using M6 flange nuts.
2. Mount the control box to the bar using M6 X 16 bolts and M6 flange nuts.

ASSEMBLY SEQUENCE.

25.



(If fitting with winch)

1. Install the roller fairlead using bolts, nuts and spring washers supplied by Warn, and the 4 x 3/8" flat washers supplied in the bolt kit. Refer to Warn installation instructions for correct procedure.

26.



(If fitting with winch)

1. Feed the winch cable through the roller fair lead. Mount the hook to the end of the cable.

27.



(If not fitting winch)

1. Wrap rubber extrusion around winch cover.
2. Place washers over the winch cover fixing holes located on the top middle face of the winch bumper.
3. Place the winch cover on top of the winch bumper inline with the mount holes.
4. Bolt together using the M6 button head stainless steel screws and M6 nuts.

ASSEMBLY SEQUENCE.

28.



Fitting with winch



Fitting without winch

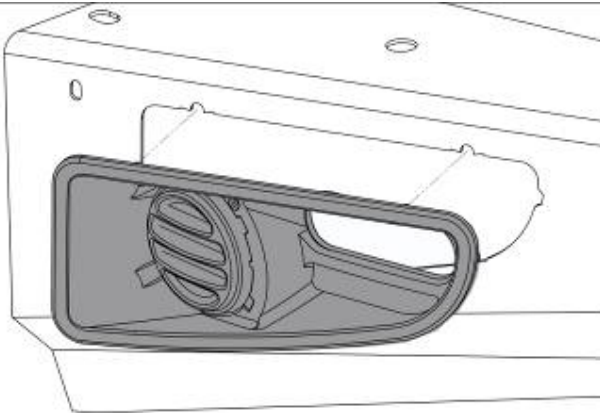
(If fitting with winch.)

1. Peel off one side of the double sided tape and adhere to the top rear side of the number plate. Note: Clean the adhering surfaces before applying tape with an alcohol solvent.
2. Peel off the other side of the tape and bolt to the winch bumper with the M6 X 16mm bolts and M6 flange nuts through the lower holes of the number plate.
3. Press firmly to the top of the number plate so the tape can properly adhere.

(If not fitting with winch.)

1. Bolt the number plate through the top holes using M6 X 16mm bolts and M6 flange nuts.
2. If desired the double sided tape can be used down the sides of the number plate.

29.



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.

Wire the combination lamp to the vehicles indicator and clearance lamps.

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

30.



1. There are two diameter 16 holes located on the top face of the bar. If no CB aerials are fitted the holes can be covered with the plastic plugs provided in the fitting kit.
 2. Place the ARB logo on the front face of the bar in the indentation.
- Trim rubber extrusion at end of wing using a sharp knife. Cut on an angle to match the angle of wing and wheel arch.

ASSEMBLY SEQUENCE.

34.

(If fitting with winch)

Connect the winch control box cables to the winch motor. Refer to the Warn handbook for additional information. Connect the long winch + & - cables to the vehicle after the bar is installed. Refer to the Warn winch manual for vehicle wiring instructions.

Ensure that these cables are installed well clear of sharp, hot or moving objects. Secure the winch cables to the vehicle and winch bumper with the supplied cable ties.

35.

Wire the clearance / turn signal lights to the vehicle wiring.

36.

Trim the extrusion between the winch bumper and vehicle using a sharp knife flush with the end of the wing.

37.

Bolt the air deflector to the underside of the winch bumper and chassis brackets with four M6 x 16 bolts, flat washers and flange nuts.