



FITTING INSTRUCTIONS

Part Number: **3540240**

Product **WINCH INSTALL KIT**

Description:

Refer to Bull Bar fitting instructions for winch compatibility.

Winches may require additional fitting kits. Refer to table below for details.

WINCH MODEL	ADDITIONAL KITS
Zeon 8:	W89965 WARN ZEON EXTENDED CABLE KIT
Zeon 8s:	W89965 WARN ZEON EXTENDED CABLE KIT & 3500600 HAWSE FAIRLEAD ADAPTER KIT
Zeon 10:	W89965 WARN ZEON EXTENDED CABLE KIT
Zeon 10s:	W89965 WARN ZEON EXTENDED CABLE KIT & 3500600 HAWSE FAIRLEAD ADAPTER KIT
Zeon 10 Platinum:	W89965 WARN ZEON EXTENDED CABLE KIT
Zeon 10-s Platinum:	W89965 WARN ZEON EXTENDED CABLE KIT & 3500600 HAWSE FAIRLEAD ADAPTER KIT
VR EVO 8:	W106928 KIT WIRE EXTENSION VR EVO
VR EVO 8s:	W106928 KIT WIRE EXTENSION VR EVO & 3500600 HAWSE FAIRLEAD ADAPTER KIT
VR EVO 10:	W106928 KIT WIRE EXTENSION VR EVO
VR EVO 10s:	W106928 KIT WIRE EXTENSION VR EVO & 3500600 HAWSE FAIRLEAD ADAPTER KIT
XP:	-
XP:	3500600 HAWSE FAIRLEAD ADAPTER KIT
M8000:	-
M8000s:	3500600 HAWSE FAIRLEAD ADAPTER KIT
XD9:	-
XD9s:	3500600 HAWSE FAIRLEAD ADAPTER KIT
9.5XDC:	3500410 WARN XDC ADAPTER KIT
9.5XDC-s:	3500600 HAWSE FAIRLEAD ADAPTER KIT & 3500410 WARN XDC ADAPTER KIT
Magnum 8:	-
Magnum 8s:	3500600 HAWSE FAIRLEAD ADAPTER KIT
Magnum 10:	-
Magnum 10s:	3500600 HAWSE FAIRLEAD ADAPTER KIT
Bushranger DV9TH:	3500780 BUSHRANGER CABLE COVER KIT (OPTIONAL)
Bushranger Seal 9.5TH:	3500600 HAWSE FAIRLEAD ADAPTER KIT
Bushranger REVO 10W:	-
Bushranger REVO 10S:	3500600 HAWSE FAIRLEAD ADAPTER KIT
Smittybilt X20 10lbs cable:	3500770 SMITTYBILT ADAPTER KIT
Smittybilt X20 10lbs rope :	3500600 HAWSE FAIRLEAD ADAPTER KIT and 3500770 SMITTYBILT ADAPTER KIT

ARB 4x4 ACCESSORIES

Corporate Head Office

42-44 Garden St
Kilsyth, Victoria
AUSTRALIA 3137

Tel: +61 (3) 9761 6622
Fax: +61 (3) 9761 6807

Australian enquiries
North & South American enquiries
Other international enquiries

sales@arb.com.au
sales@arbusa.com
exports@arb.com.au

www.arb.com.au

FITTING REQUIREMENTS

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

Protective eyewear



Hearing protection



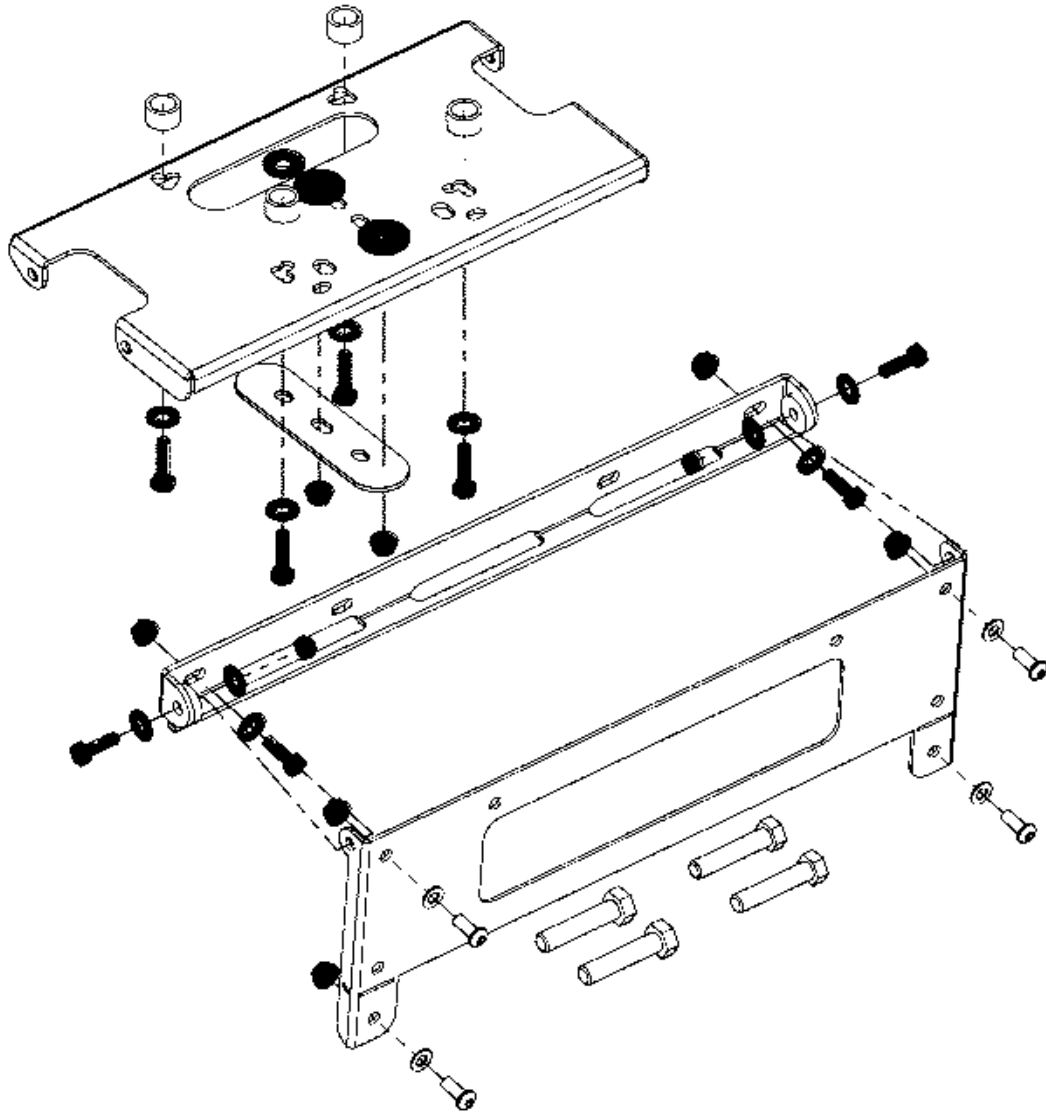
NOTE: 'WARNING' notes in the fitting procedure relate to OHS situations, where to avoid a potentially hazardous situation it is suggested that protective safety gear be worn or a safe work procedure be employed. If these notes and warnings are not heeded, injury may result.

FASTENER TORQUE SETTINGS:

SIZE	Torque Nm	Torque lbft
M5	5Nm	3.5lbft
M6	9Nm	7lbft
M8	22Nm	16lbft
M10	44Nm	32lbft
M12	77Nm	57lbft

PARTS LISTING

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	3195186	PLATE MAGNUM CBOX MNT SUIT PXIII	1
2	3750486	BRKT CTRL BOX MNT SUITS PXIII	1
3	3758963	NUMBER PLATE BRACKET LIFT UP	1
4	3758964	BRACKET NUMBER PLATE MOUNT	1
5	3789883	F/INST 3540240 SUM SUITS PXIII (<i>THIS DOCUMENT</i>)	1
6	4581304	WASHER FLAT M6 SS	4
7	4581307	WASHER FLAT M8 X 20 X 2 BLACK ZINC	1
8	4584310	WASHER FLAT M6 X 25 X 2.8 BLACK ZINC	2
9	4584327	WASHER FLAT M6 X 16 X 1.2 BLACK ZINC	10
10	5848302	PACKER RB NYLON	2
11	6151074	BOLT 3/8" x 1.75" UNC ZP	2
12	6151213	BOLT M6 x 1.0 x 20 PC8.8 BLACK ZINC	4
13	6151223	NUT NYLOC M6 x 1.0 BLACK ZINC	2
14	6151256	SCREW BTN HD M6 X 16 SS	4
15	6151456	BOLT M10x1.5x45 PC 8.8 ZP	2
16	6151550	BOLT M6 x 1.0 x 25 PC8.8 BLACK ZINC	4
17	6151561	NUT FLANGE M6 x 1.0 BLACK ZINC	8
18	6250010	SPACER 17 X 12.6 X 10	4



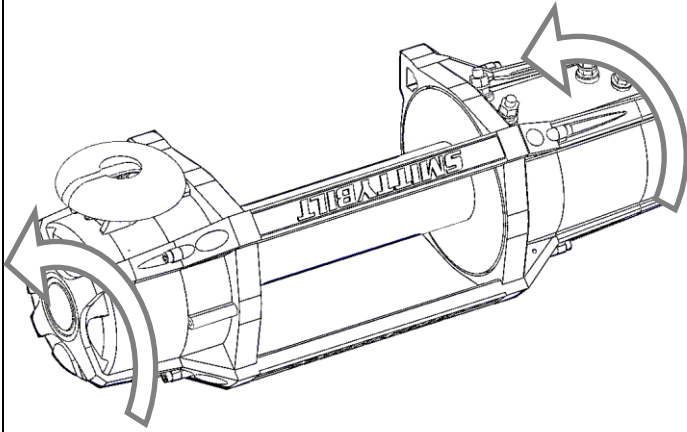
WINCH PREPERATION

This ARB bar has been designed to carry a variety of Warn, Magnum, Smittybilt and Bushranger winches. Before the winch is fitted into the bar it will need to be configured for proper fit and operation.

Note: Before fitting the winch to the bar, ensure that you have read and understand the fitting instructions supplied with the winch. These instructions only cover the fitment of the winch and control box to the bar. They do not cover the wiring procedure. For this refer to the winch manufacturer's instructions.

You will need to modify your winch to allow fitment into the bar. See below for each of the winch brands:

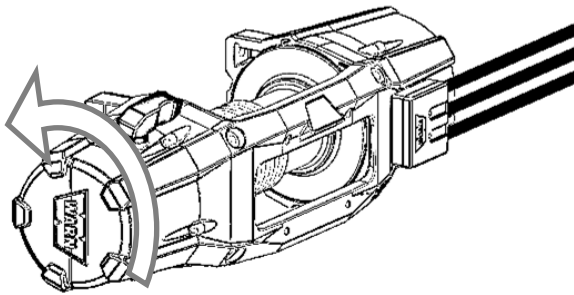
Note: The pictures below show the winches following modification.



Warn / Magnum / Smittybilt winches: Undo the screws in the gearbox end of the winch. Carefully slide the gearbox away from the winch only until it is able to rotate. Rotate the gear box anti-clockwise 72° and replace screws.

Smittybilt winches only. Motor will need to be rotated for adequate cable length. Remove 4 motor retaining bolts and cover. Remove 2 additional motor cap bolts. Rotate the motor until electrical connections are facing upwards. Reinstall retaining bolts and motor cover. (**SMITTYBILT "GEN 2"** shown)

Ensure drain holes are correctly orientated. Refer to winch instructions for more details.

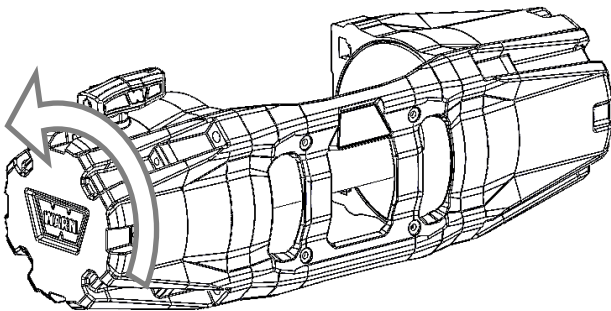


Warn Zeon winches*: Undo the screws in the gearbox end of the winch. Carefully slide the gearbox away from the winch only until it is able to rotate. Rotate the gear box anti-clockwise 72° and replace screws.

Remove the control box as per the Zeon control pack relocation kit installation guide.

Install the Warn Zeon relocation kit to the winch and control box.

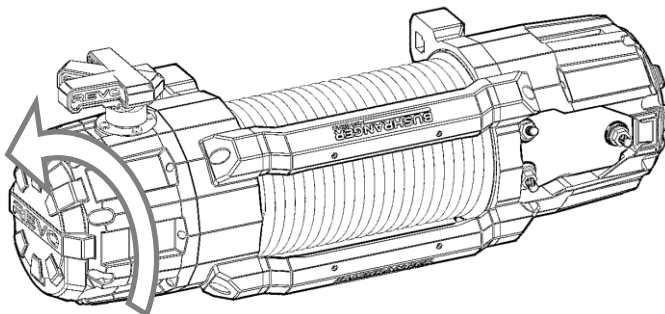
***Not required for Zeon Platinum models.**



Warn VR Evo Winches: Undo the screws in the gearbox end of the winch. Carefully slide the gearbox away from the winch only until it is able to rotate. Rotate the gear box anti-clockwise 90° and replace screws.

Remove the control box as per the VR Evo control pack relocation kit guide.

Install the Warn VR Evo wire extension kit to the winch and control box.



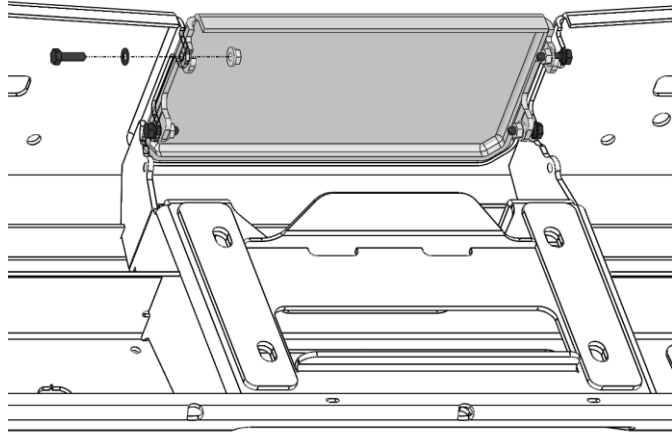
Bushranger winches: Undo the screws in the gearbox end of the winch to remove the brake cover. Remove the bolts retaining the gearbox housing.

Rotate the gearbox anti-clockwise until the clutch is as close as possible to directly upwards. Gearbox rotation increments may be 36°, 40° or 90° depending on model. ("**REVO 10**" model shown)

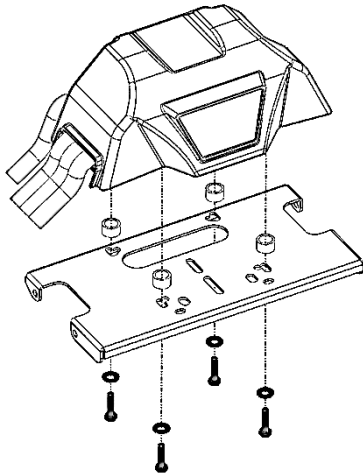
Ensure fine seals are seated correctly then replate and tighten all fasteners.

Ensure drain holes are correctly orientated
Refer to winch instructions for more details.

FITTING PROCEDURE

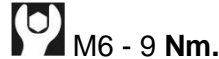


1. Lay the bar face down on a soft surface so as not to damage the paint / powder coat.
2. If fitted, carefully remove the winch cover plate and discard. Keep fasteners for re-use.

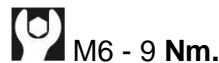


Warn Zeon \ Platinum winches:

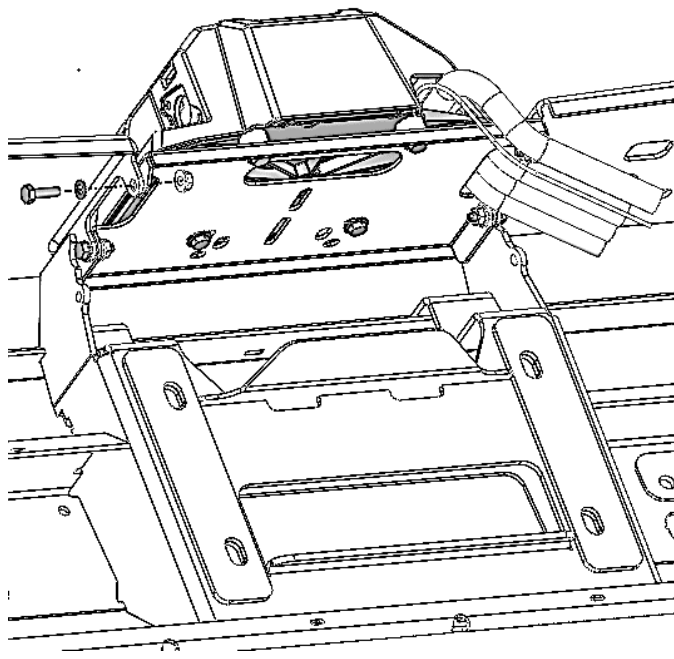
3. Mount the Control Box to the 3750486 Brkt Control Box Mount plate using 4x M6x25 hex bolts, washers and spacers provided. *Front view shown.*

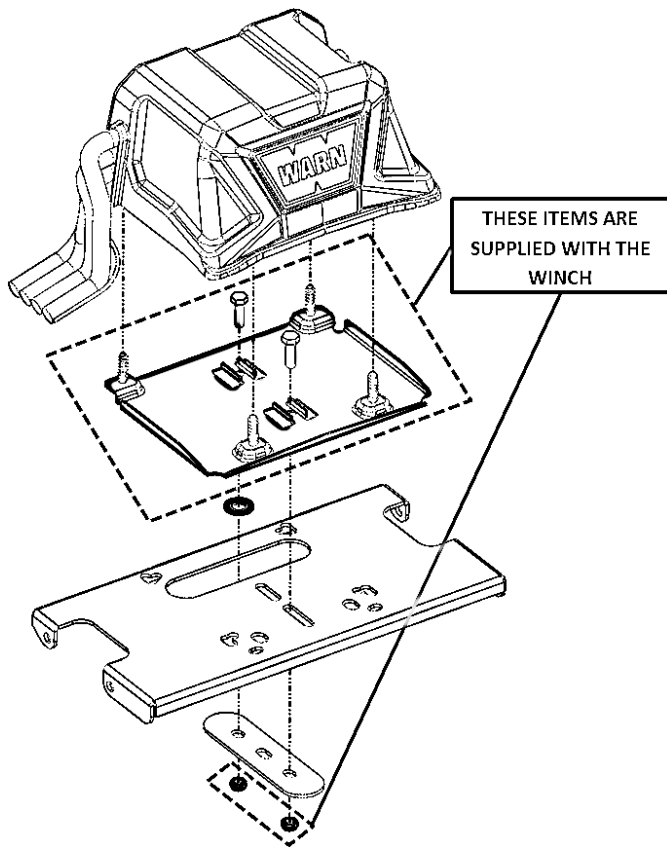


4. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip while passing the 3x RHS control box cables through the cut-out in the mount plate and between the mount tabs on the bar on the RHS. Pass the rear cables downwards between the bar and the trimmed Bumper. Align the 2x mount tabs on each side of the mount plate to the two mount tabs on the bar and then secure using the 4x M6 fastener sets removed in Step 2. Route and cable tie the control box cables clear of the winch spool. *Rear view shown.*




HINT: Apply some split cable protection conduit to the winch cables where they pass through the Bull Bar

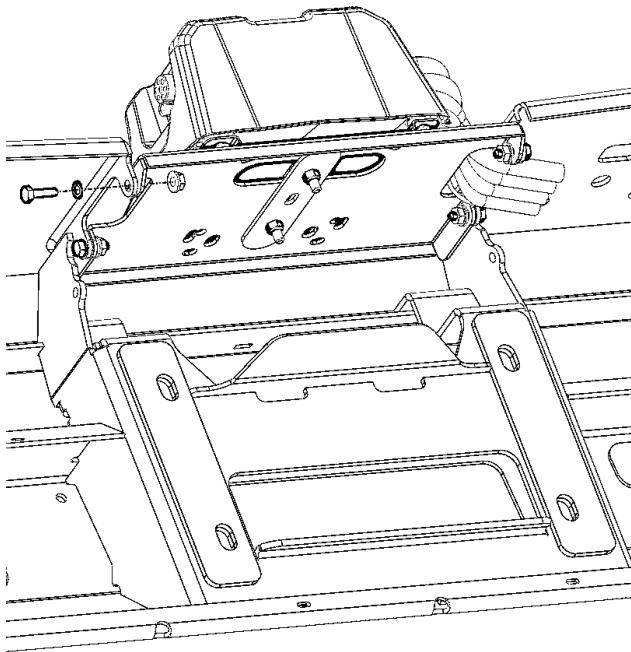





Warn Magnum winches:

5. Mount the Control Box to the Warn Mount plate using the fasteners supplied with the winch kit, ensuring that the 2x central M6 Hex Head Bolts pass through the plate as shown.
6. Mount the assembly to the 3750486 Brkt Control Box Mount plate using 2x M6 Nyloc nuts (from winch kit), 1x 4581307 Washer (as a spacer) and 1x 3195186 plate provided. *Front view shown.*

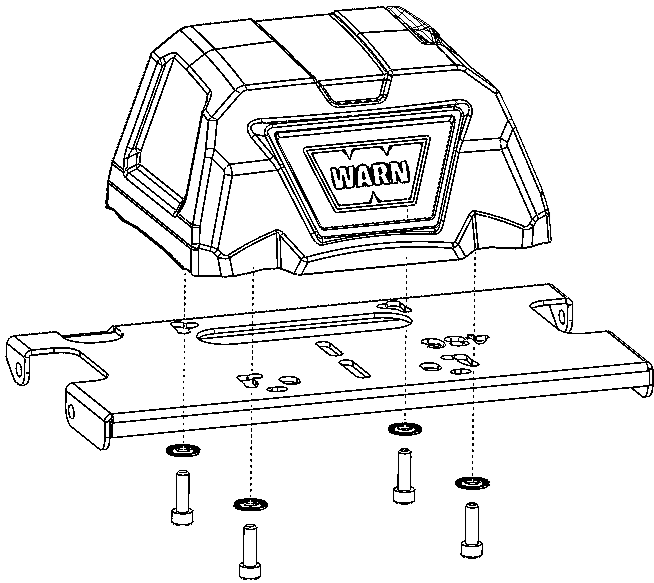
 M6 - 9 Nm.



7. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip while passing the 5x control box cables through the cut-out in the mount plate and between the mount tabs on the bar on the RHS. Align the 2x mount tabs on each side of the mount plate to the two mount tabs on the bar and then secure using the 4x M6 fastener sets removed in Step 2. Route and cable tie the control box cables clear of the winch spool. *Rear view shown.*

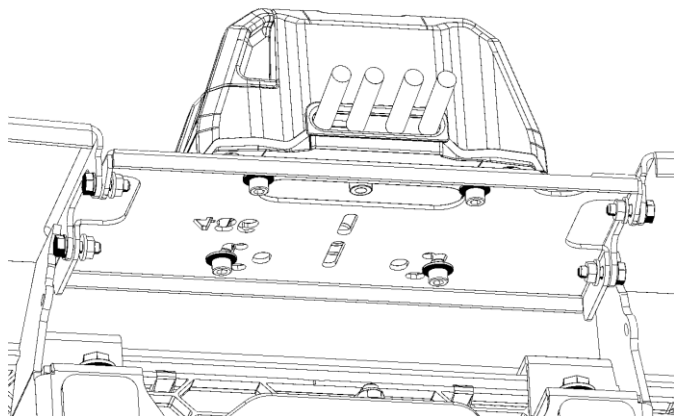
 M6 - 9 Nm.

HINT: Apply some split cable protection conduit to the winch cables where they pass through the Bull Bar




**M5 Cap Screws
Supplied with
winch.**

HINT: Apply some split cable protection conduit to the winch cables where they pass behind the Bull Bar



Warn VR EVO winches:

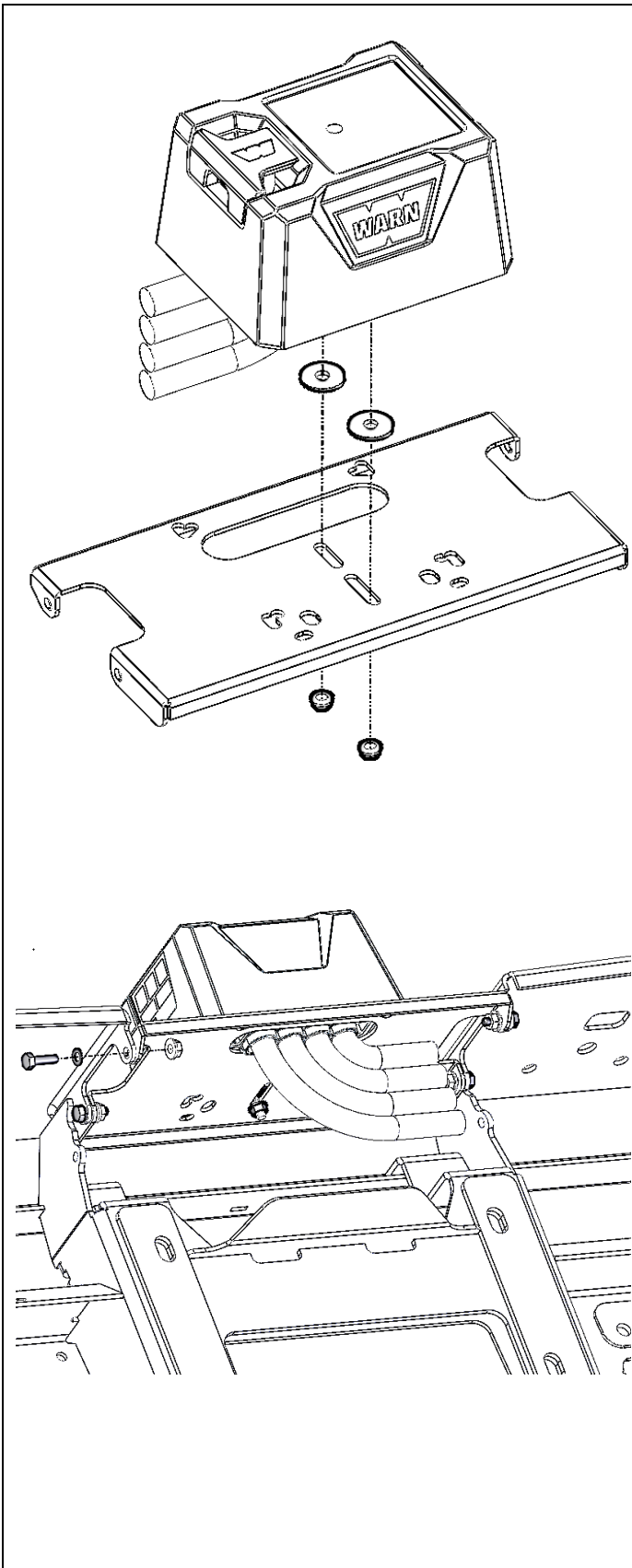
8. Referring to instructions supplied in Warn kit W106928, separate control box from winch.
Retain all 4 of the M5 cap screws.
9. Mount the Control Box to the 3750486 Brkt Control Box Mount plate using the original M5 cap screws retained from previous step and 4x M6x16 washers.

 **M5 – 5 Nm.**

10. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip.


Pass the rear cables downwards between the bar and the trimmed Bumper. Align the 2x mount tabs on each side of the mount plate to the two mount tabs on the bar and then secure using the 4x M6 fastener sets removed in Step 1. Route and cable tie the control box cables clear of the winch spool.
Rear view shown.

 **M6 - 9 Nm.**




Warn M8000, XD9 & 9.5XP control box winches.

11. Mount the Control Box to the 3750486 Brkt Control Box Mount plate using 2x M6 flange nuts and 2x M6x25x2.8 washers as spacers provided, passing the control box cables through the slot in the mount plate. *Front view shown.*

 M6 - 9 Nm.

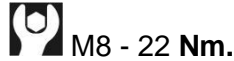
12. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip. Align the 2x mount tabs on each side of the mount plate to the two mount tabs on the bar and then secure using the 4x M6 fastener sets removed in Step 2. Route and cable tie the control box cables clear of the winch spool *Rear view shown.*

 M6 - 9 Nm.

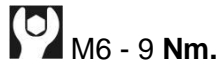
HINT: Apply some split cable protection conduit to the winch cables where they pass through the Bull Bar

Warn XDC control box winches: Requires XDC adapter kit 3500410.

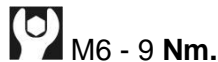
13. Mount the XDC Control Box to the adapter bracket included in the 3500410 kit using the M8 hardware provided in the kit. **Note:** the control box cover will need to be removed and rotated 180 degrees and re-assembled to the bracket. *Front view shown.*



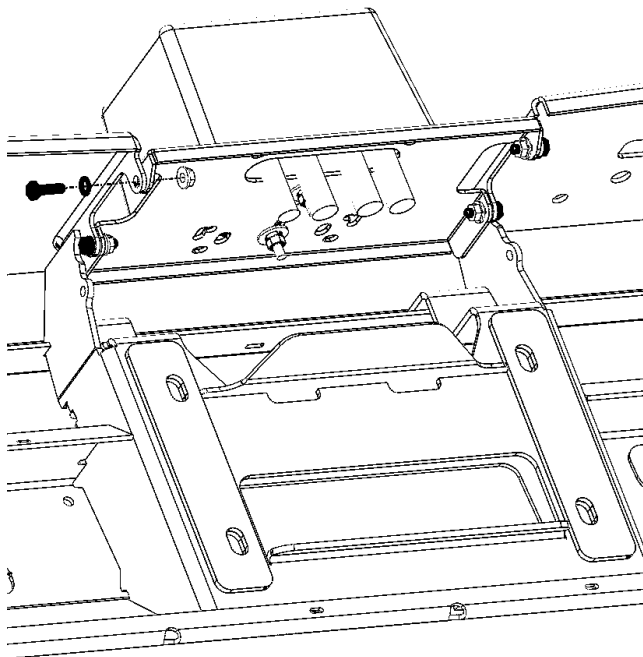
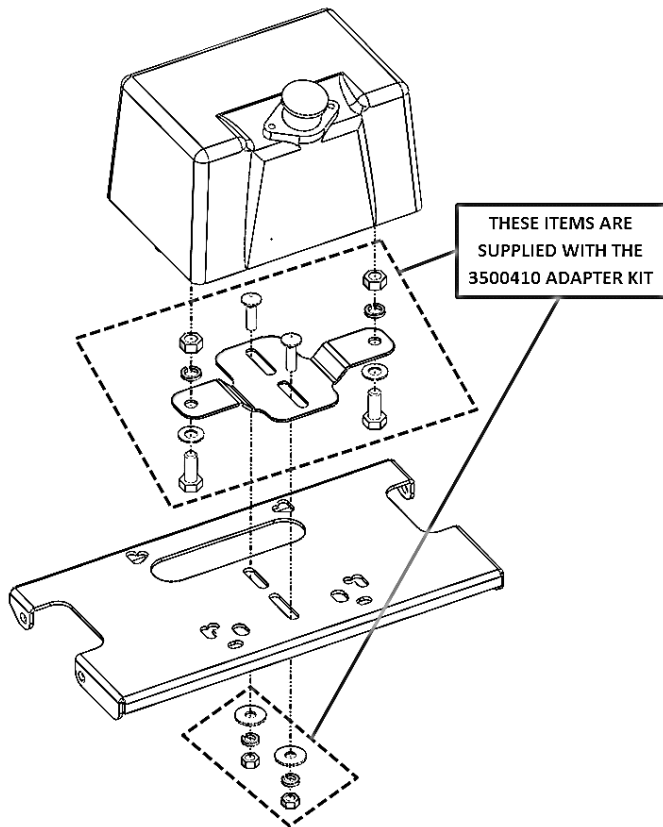
14. Mount the control box to the 3750486 Brkt using the M6 fasteners supplied with the 3500410 kit, passing the control box cables through the slot in the mount plate. *Front view shown.*



15. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip. Align the 2x mount tabs on each side of the mount plate to the two mount tabs on the bar and then secure using the 4x M6 fastener sets removed in Step 2. Route and cable tie the control box cables clear of the winch spool. *Rear view shown.*




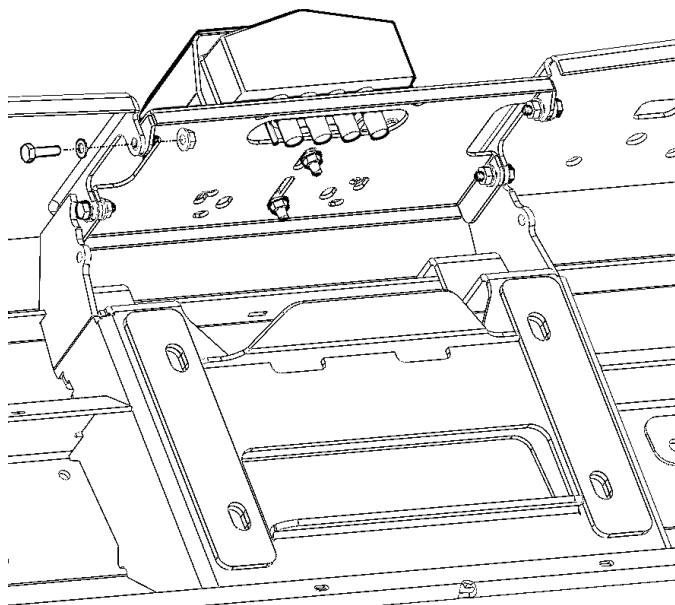
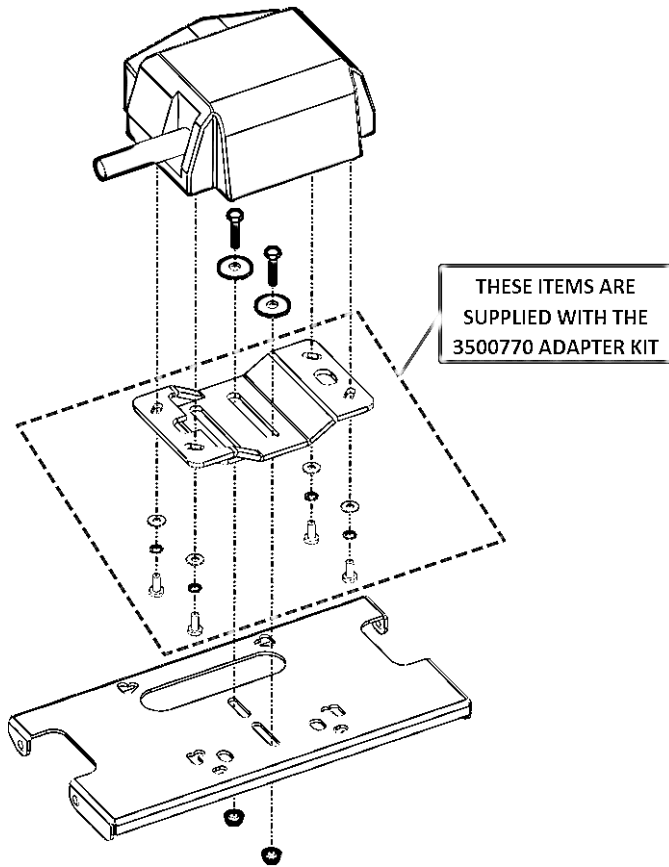
HINT: Apply some split cable protection conduit to the winch cables where they pass through the Bull Bar




Smittybuilt Gen 2 winches. Requires Smittybuilt adapter kit 3500770

16. Mount the Control Box to the adapter bracket included in the 3500770 kit using the M5 hardware provided in the kit.
17. Mount the control box to the 3750486 Brkt using 2x M6x25 bolts, flange nuts and M6x25x2.8 washers provided, passing the control box cables through the slot in the mount plate. *Front view shown.*

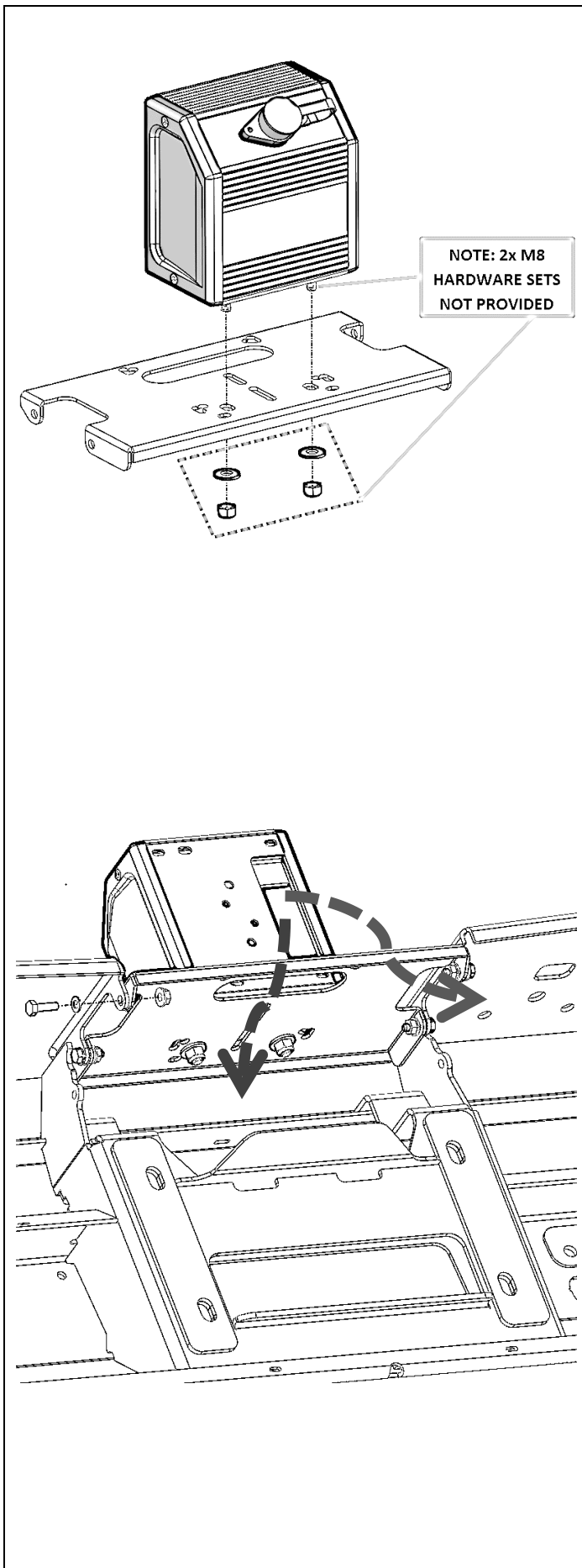
 M6 - 9 Nm.



18. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip. Align the 2x mount tabs on each side of the mount plate then secure to the mount tabs on the bar using the 4x M6 fastener sets removed in Step 2. Route and cable tie the control box cables clear of the winch spool. *Rear view shown.*


 M6 - 9 Nm.

HINT: Apply some split cable protection conduit to the winch cables where they pass through the Bull Bar




Bushranger winches:

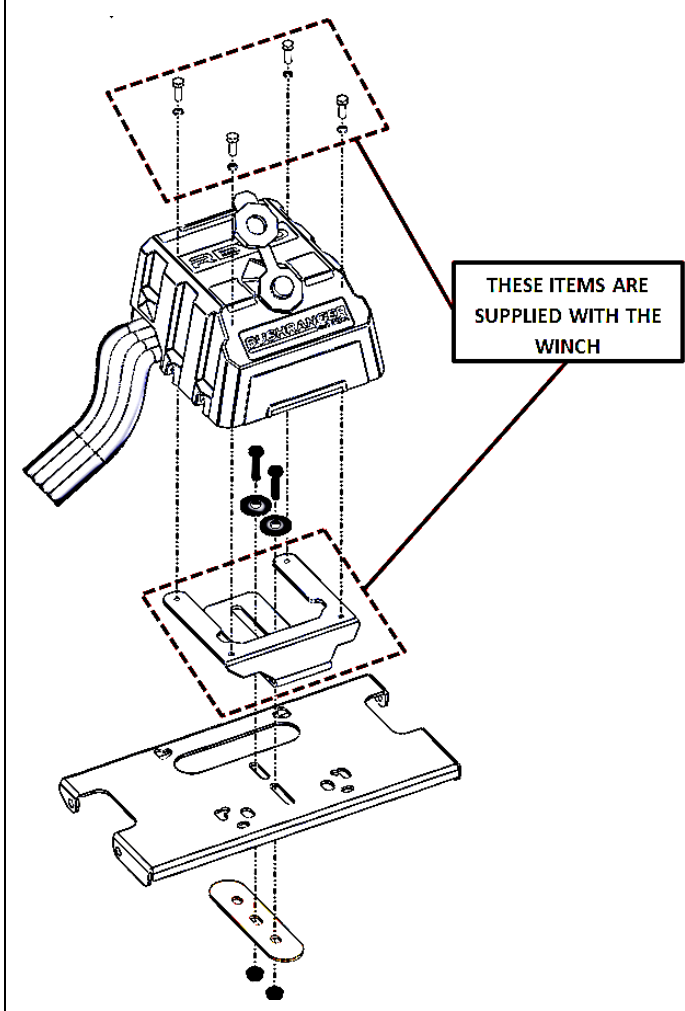
19. First remove one plastic end from the control box. Slide in two Hex head M8x20 bolts. (not provided). *Front view shown.*
20. Replace plastic end of the control box and fasten to 3750486 Brkt using 2x M8 nut and washer set (not provided)

 M8 - 22 Nm.

21. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip while passing the control box cables through the cut-out in the mount plate. Either between the mount tabs on the RHS of the bar **OR** through the slot at the back of the mount plate. Align the 2x mount tabs on each side of the mount plate to the two mount tabs on the bar and then secure using the 4x M6 fastener sets removed in Step 2. Route and cable tie the control box cables clear of the winch spool. *Rear view shown.*


 M6 - 9 Nm.

HINT: Apply some split cable protection conduit to the winch cables where they pass through the Bull Bar

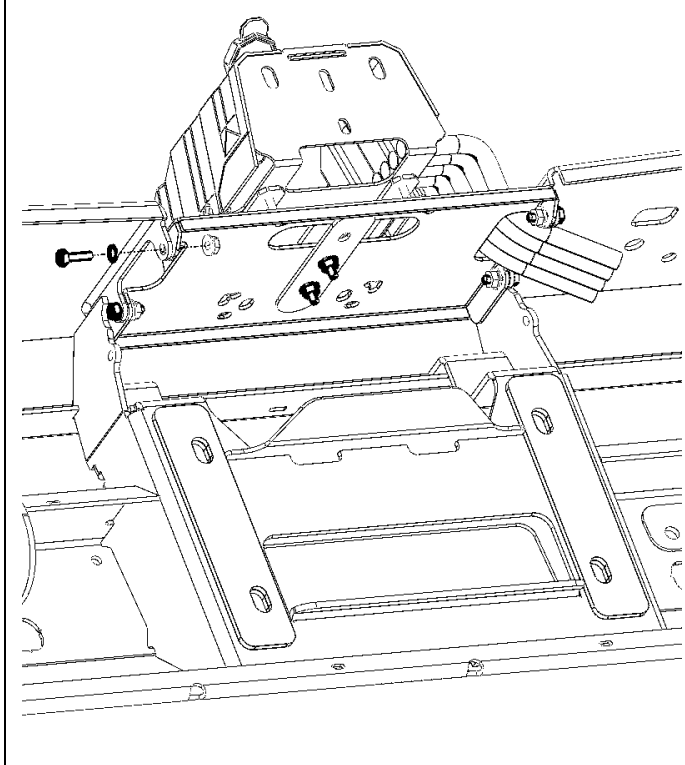
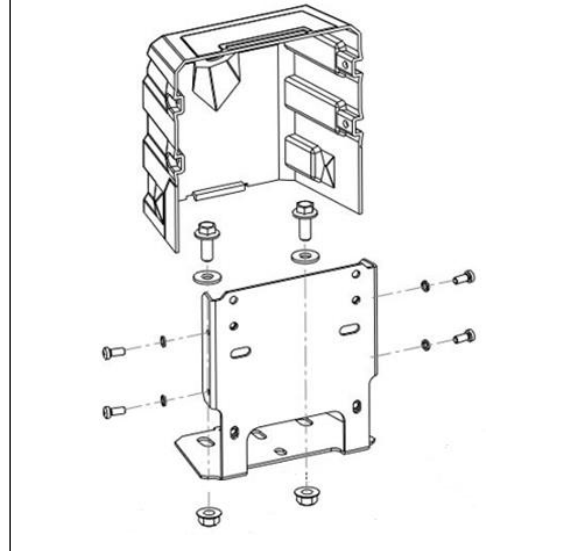


Bushranger REVO winches:


22. Mount the Control Box to the REVO Mount plate using the 4X M5 fasteners supplied with the winch kit as shown. **Note:** Follow the winch instructions to re-route the control box cables through the RH side of the cover as shown.
23. Mount the control box to the 3750486 Brkt using 2x M6x25 bolts, 2x M6x25x2.8 washers, 1x 3195186 plate and 2x M6 flange nuts and provided. *Front view shown.*

 M6 - 9 Nm.

HINT: For 2022 Ranger/Everest refer to "Mounting Option 3 – Vertical Mounting" on page 6 of owner's manual.

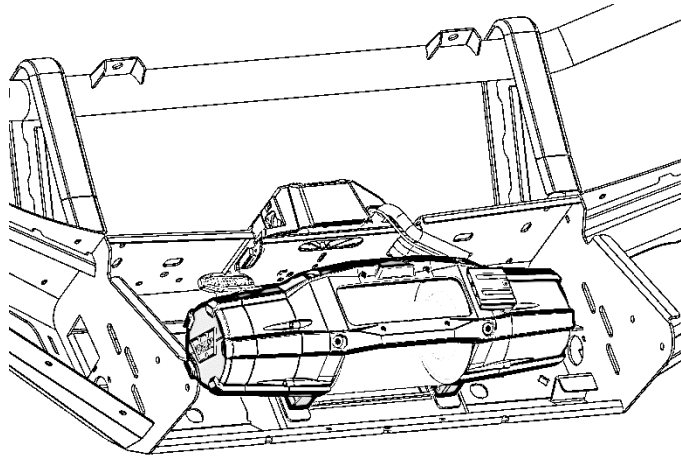


24. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip while passing the control box cables through the cut-out in the mount plate and between the mount tabs on the RHS of the bar. Align the 2x mount tabs on each side of the mount plate to the two mount tabs on the bar and then secure using the 4x M6 fastener sets removed in Step 2. Route and cable tie the control box cables clear of the winch spool. *Rear view shown.*

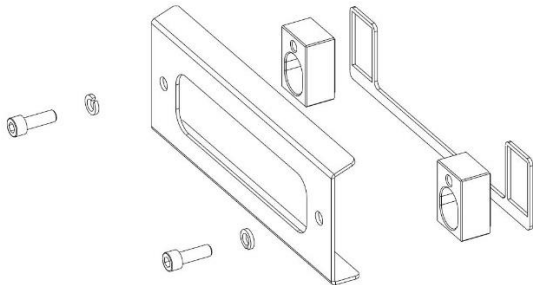
 M6 - 9 Nm.

HINT: Apply some split cable protection conduit to the winch cables where they pass through the Bull Bar

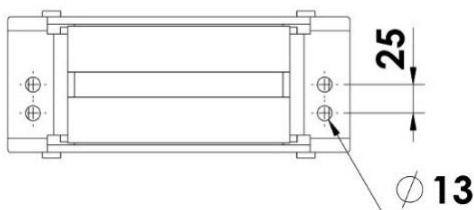
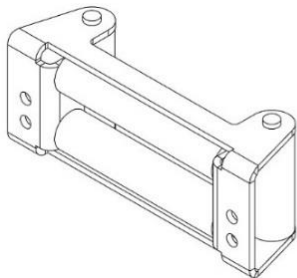
FITTING PROCEDURE



25. Locate the Bull Bar face down on a smooth non-marking surface.
26. Sit the winch in position on the bar's winch cradle.
27. Attach the winch to the bar through the top 2 holes using 2 of the bolts (and any washers) that are supplied with the winch.
28. Level the winch and tighten the bolts.



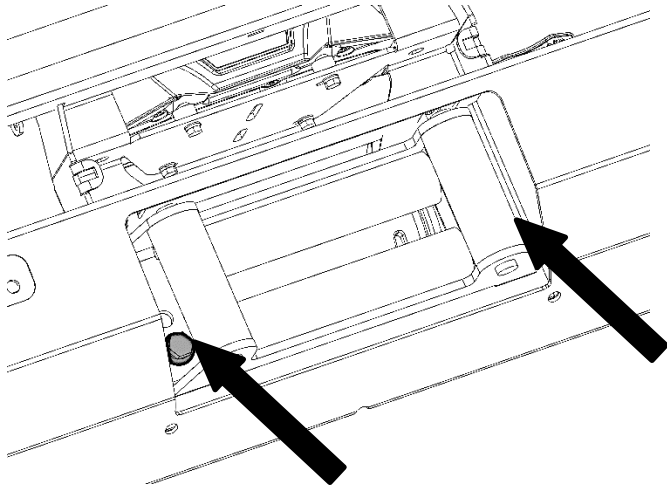
29. **For hawse fitment**, Spacer kit 3500600 is required, refer to instruction 3787087 supplied.



30. **For roller fairlead fitment**, if not already done, mark 2 hole positions 25mm below the centre holes as shown in the diagram.
31. Drill 2, $\varnothing 13$ mm holes. De-burr the holes and protect with a zinc rich primer to prevent rust.



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



32. Turn the bar over onto the back face.
33. Attach the roller fair lead (RFL) to the bar and winch using the longer hex bolts supplied in this kit and any washers supplied with the winch.

Note 1: To make it easier to get to the bolt holes in the RFL, remove the vertical roller pins and rollers.

Note 2: Some winches will require 3/8" UNC bolts where others will require M10. Both have been supplied in this kit. Please check the threads before proceeding. This can be done by comparing the bolts from this kit with the ones supplied with the winch.



M10- 44 Nm.



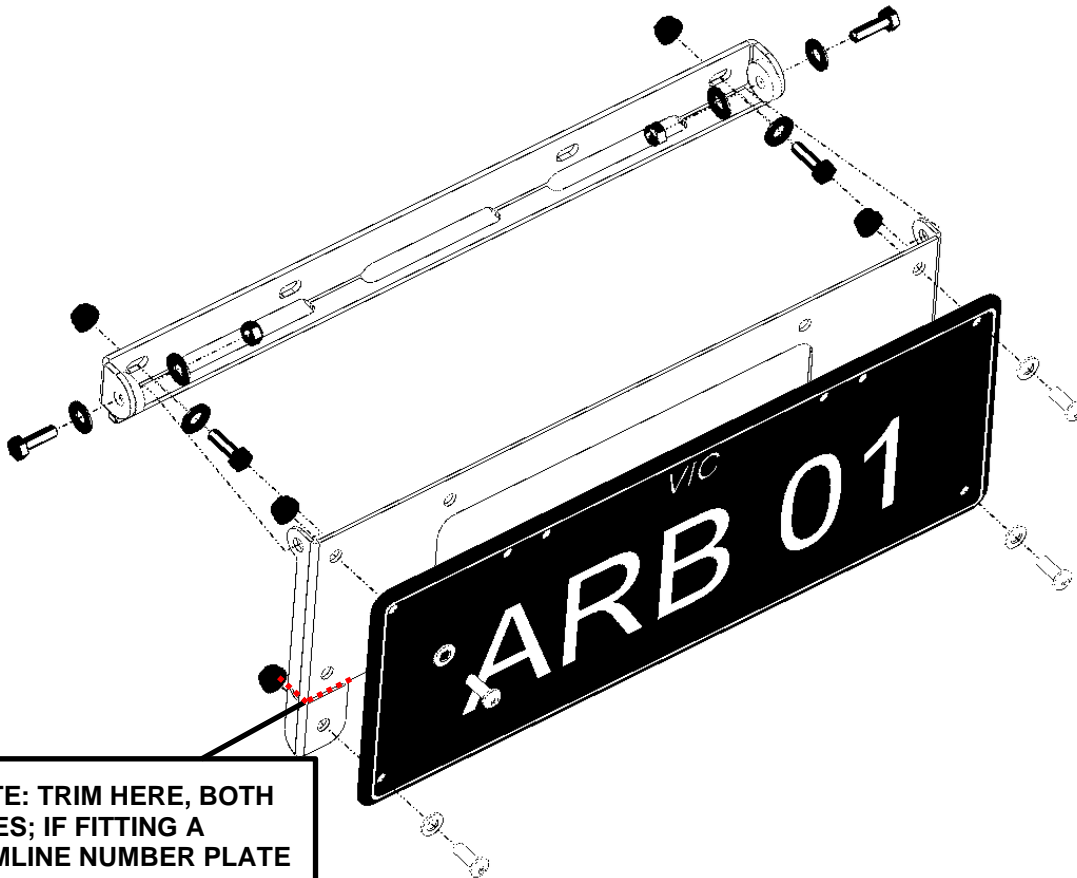
3/8th - 44 Nm.

FOLDING NUMBER PLATE FITTING PROCEDURE

34. Assemble the smaller of the two number plate brackets to the front of the bar using 2x M6x20 hex bolts, washers and flange nuts provided.
35. Assemble the larger bracket to the smaller one using 2x M6x20 hex bolts, washers, packers and flange nuts provided.
36. If assembling a full size number plate, secure to the front bracket using 4x M6 stainless steel button head screws and washers as shown in the diagram below.



M6 – 9 Nm



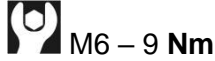
NOTE: TRIM HERE, BOTH SIDES; IF FITTING A SLIMLINE NUMBER PLATE

37. If fitting a slim line / “Euro” style number plate, trim on both sides at the dotted lines shown in the image above. Remove all burs and sharp edges using a file, then apply black touch up paint to the cut areas and allow to dry.



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

38. Secure to the front bracket using 4x M6 stainless steel button head screws, washers and flange nuts provided.



39. Ensure all cables are attached as per the winch manufacturer’s instructions. Ensure cables are securely attached and cannot rub on any sharp edges.
40. Tidy the cables and secure using cable ties leaving the 2 long power cables free to be connected to the vehicles battery later.

Return to the bar fitment instructions.