ARB FITTING INSTRUCTIONS

Part Number: **3512150**

Product Description: **70 SERIES LANDCRUISER MKII WINCH FIT KIT**

Suited to vehicle/s: **70 SERIES LANDCRUISER 2024 ON**

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 & **3500605** HAWSE FAIRLEAD SPACER KIT
Zeon 10:	**W89965** WARN ZEON EXTENDED CABLE KIT
Zeon 10s:	**W89965 & 3500605** HAWSE FAIRLEAD SPACER KIT
Zeon 12:	**W89965** WARN ZEON EXTENDED CABLE KIT
Zeon 10 Platinum:	**W89965** WARN ZEON EXTENDED CABLE KIT
Zeon 10-s Platinum:	**W89965 & 3500605** HAWSE FAIRLEAD SPACER KIT
Zeon 12 Platinum:	**W89965** WARN ZEON EXTENDED CABLE KIT
VR EVO 8/10/12:	**W106928** KIT WIRE EXTENSION VR EVO
VR EVO 8s/10s/12s:	**W106928** KIT WIRE EXTENSION VR EVO **& 3500605** HAWSE FAIRLEAD SPACER KIT
XP:	**-**
XPs:	**3500605** HAWSE FAIRLEAD SPACER KIT
M8000:	**-**
M8000s:	**3500605** HAWSE FAIRLEAD SPACER KIT
XD9:	**-**
XD9s:	**3500605** HAWSE FAIRLEAD SPACER KIT
9.5XDC:	**3500410** WARN XDC ADAPTER KIT
9.5XDC-s:	**3500605** HAWSE FAIRLEAD SPACER KIT & **3500410** WARN XDC ADAPTER KIT
Bushranger DV9TH:	**3500780** BUSHRANGER CABLE COVER KIT (OPTIONAL)
Bushranger Covert: 10k & 12k	**-**
Bushranger DV9TH:	**3500780** BUSHRANGER CABLE COVER KIT (OPTIONAL)
Bushranger REVO 10W/12W MkII:	**-**
Bushranger REVO 10S/12S MkII:	**3500605** HAWSE FAIRLEAD SPACER KIT
Smittybilt X20 10lbs Cable:	**3500770** SMITTYBILT ADAPTER KIT
Smittybilt X20 10lbs Rope	**3500605** HAWSE FAIRLEAD SPACER KIT and **3500770** SMITTYBILT ADAPTER KIT

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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.

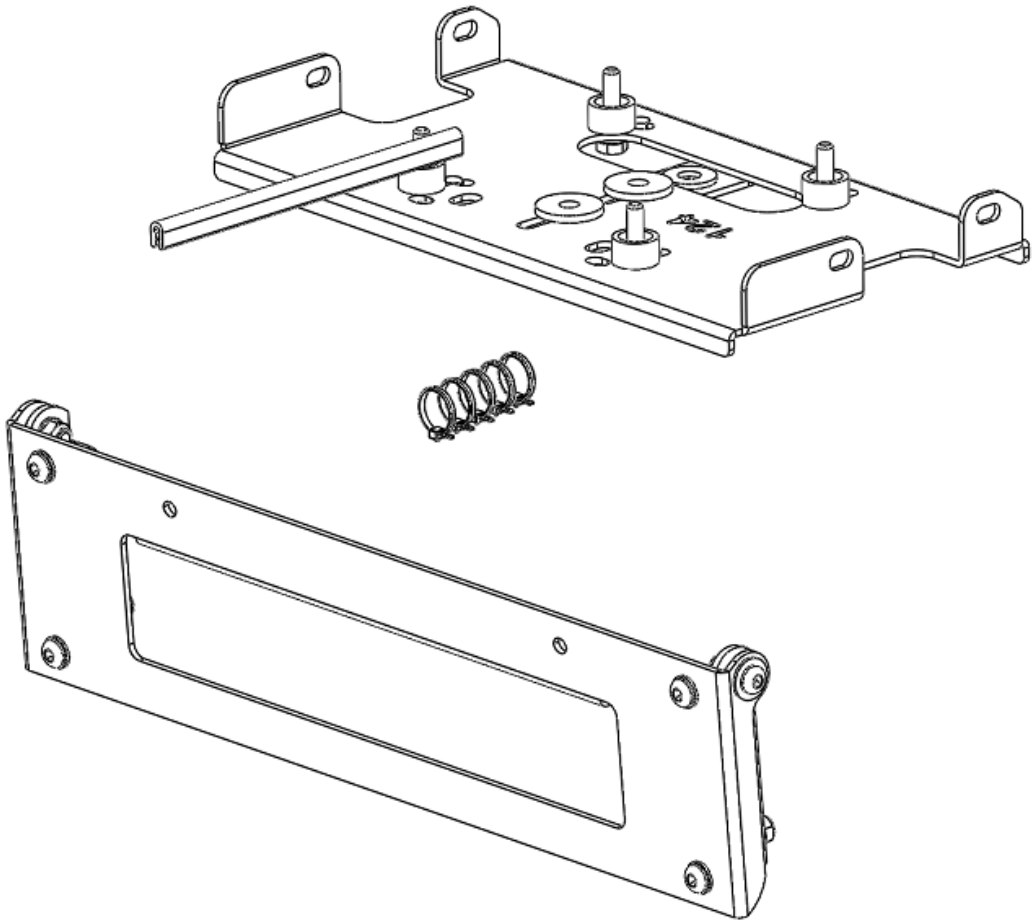
FASTENER TORQUE SETTINGS:

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 NO.	QTY	DESCRIPTION
1	**180302**	**4**	**CABLE TIE 4.8 X 180 MM**
2	**3195186**	**1**	**PLT MAGNUM CBOX MNT SUIT PXIII**
3	**37500124**	**1**	**BRKT CONTROL BOX LC70 MKII**
4	**37500125R/L**	**1**	**BRKT CONTROL BOX LC70 MKII**
5	**37500126**	**1**	**BRKT NUMBER PLATE LC70 MKII**
6	**4581307**	**1**	**WASHER FLAT M8X20X2**
7	**4584310**	**2**	**WASHER FLAT M6X25X2.8**
8	**4584327**	**2**	**WASHER FLAT M6X16X1.2**
9	**4584329**	**14**	**WASHER FLAT M6X12.2X1.2**
10	**5848302**	**2**	**PACKER RBAR NYLON**
11	**6151223**	**8**	**NUT HEX NYLOC M6X1.0**
12	**6151443**	**2**	**SCREW BHD M6x20**
13	**6151459**	**6**	**SCREW BHD M6x16**
14	**6151561**	**2**	**NUT FLANGE M6X1.0**
15	**6152008**	**4**	**BOLT FLANGE HEAD M6X1.0X25**
16	**6191225**	**1**	**PINCH WELD 1MMX6.5MM 150MM**
17	**6250010**	**4**	**SPACER ROD END 17 X 12.6 X 10**

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WINCH PREPERATION

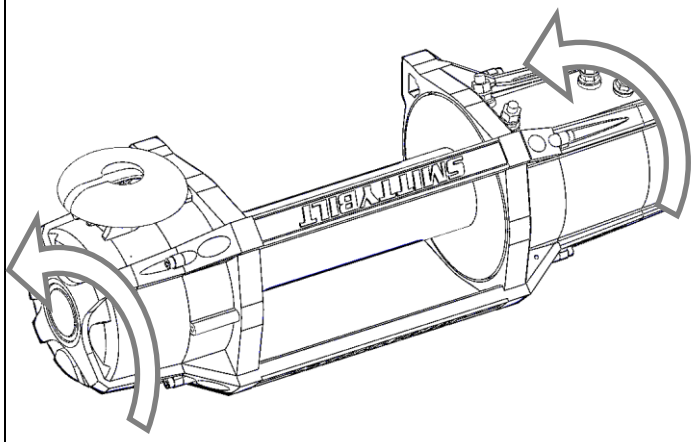
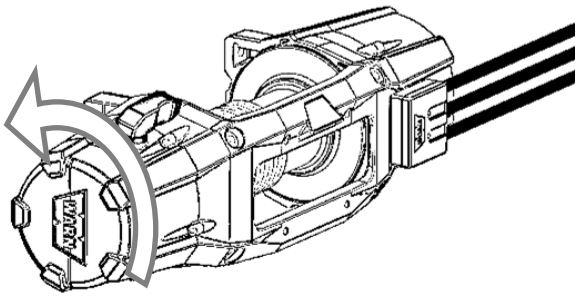
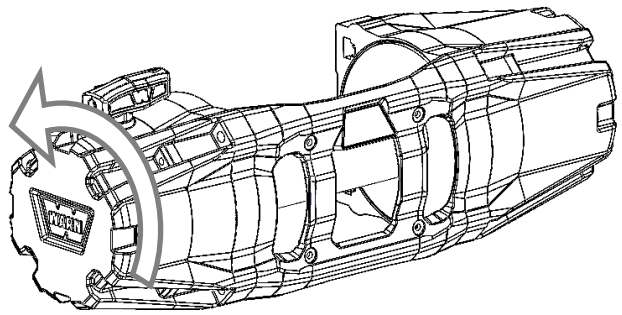
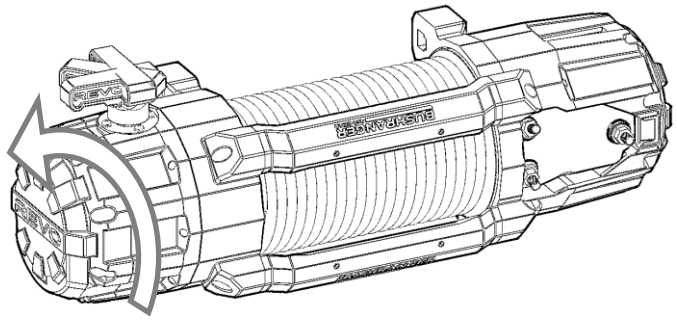
This ARB bar has been designed to carry a variety of Warn, Magnum, Smittybilt and Bushranger winches. Before the winch is fitted into the bar it will need to be configured for proper fit and operation.

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:

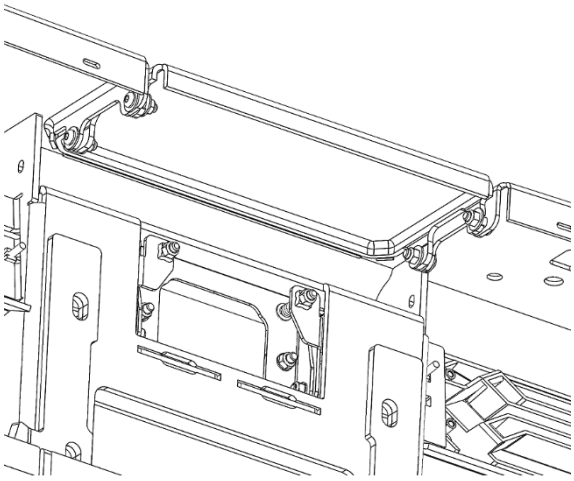
Note: The pictures below show the winches following modification.

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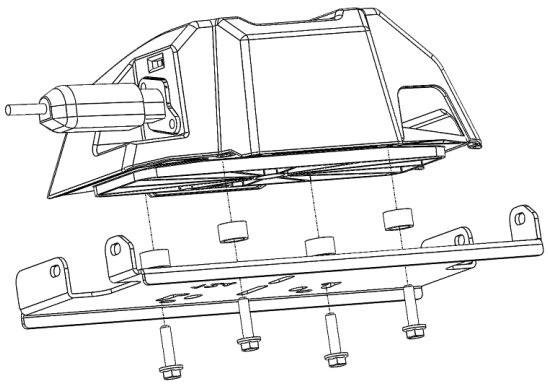
	**Warn / Smittybilt winches:** Undo the screws in the gearbox end of the winch. Carefully slide the gearbox away from the winch only until it is able to rotate. Rotate the gear box anti-clockwise 72° and replace screws. **Smittybilt winches only.** Motor will need to be rotated for adequate cable length. 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 replace and tighten all fasteners. Ensure drain holes are correctly orientated Refer to winch instructions for more details.

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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.

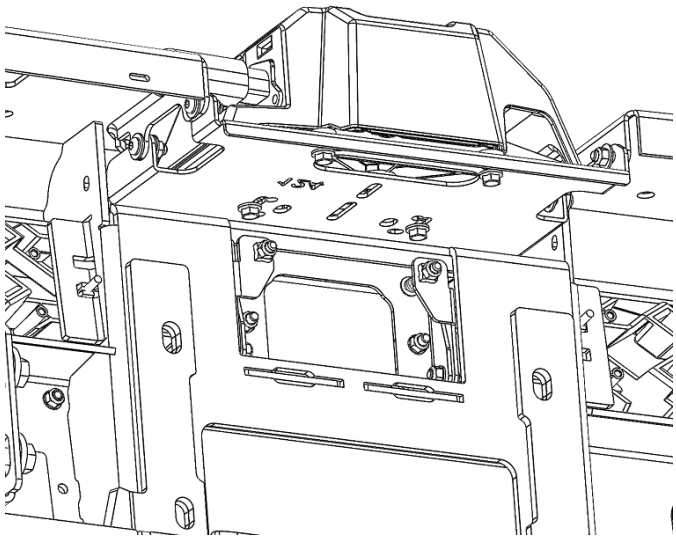


Warn Zeon \ Platinum winches:

3. Mount the Control Box to the 3750486 Brkt Control Box Mount plate using four M6x25 flange bolts and spacers provided. *Rear view shown.*

   M6 - 9 **Nm.**

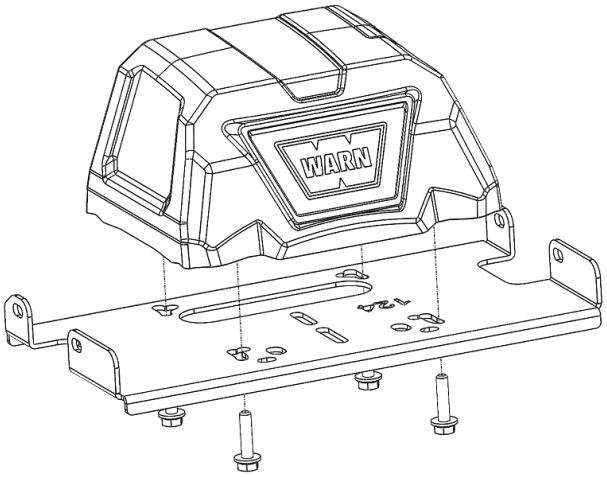
4. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip while passing the three RHS control box cables through the cut-out in the mount plate and between the mount tabs on the bar on the RHS. Pass the rear cables downwards through the hole in the bumper. Align the two mount tabs on each side of the mount plate to the two mount tabs on the bar and then secure using the four 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.**

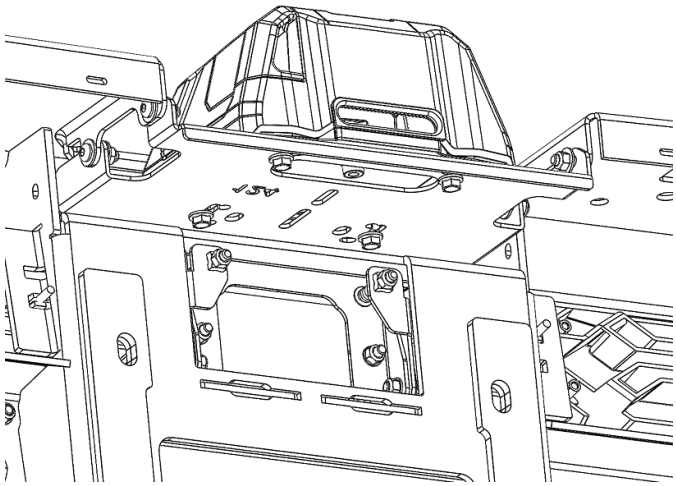
   HINT: Apply some split cable protection conduit to the winch cables where they pass through the Bull Bar

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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:

5. Referring to instructions supplied in Warn kit W106928, separate control box from winch.

   Retain all M5 cap screws.

6. Mount the Control Box to the 3750486 Brkt Control Box Mount plate using the original M5 cap screws retained from previous step.

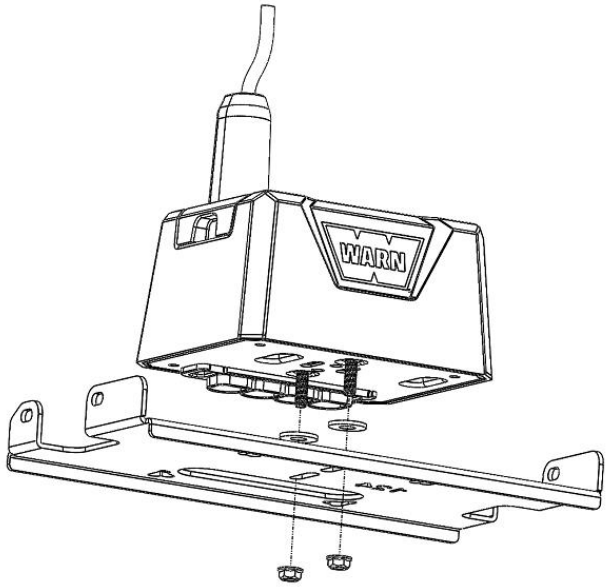
   M5 – 5 **Nm.**

7. 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 two mount tabs on each side of the mount plate to the two mount tabs on the bar and then secure using the four 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.**

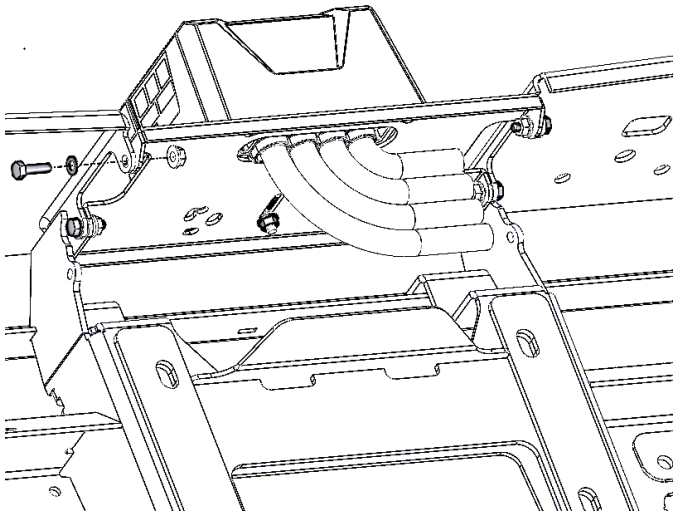
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Warn M8000, XD9 & 9.5XP control box winches.

8. Mount the Control Box to the 3750486 Brkt Control Box Mount plate using two M6 flange nuts provided, passing the control box cables through the slot in the mount plate. *Front view shown.*

M6 - 9 **Nm.**

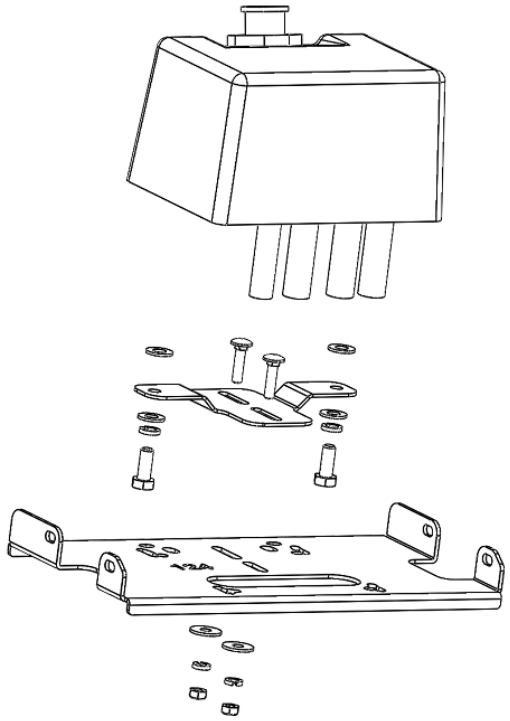


9. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip. Align the two mount tabs on each side of the mount plate to the two mount tabs on the bar and then secure using the four M6 fastener sets removed in Step 2. Route and cable 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

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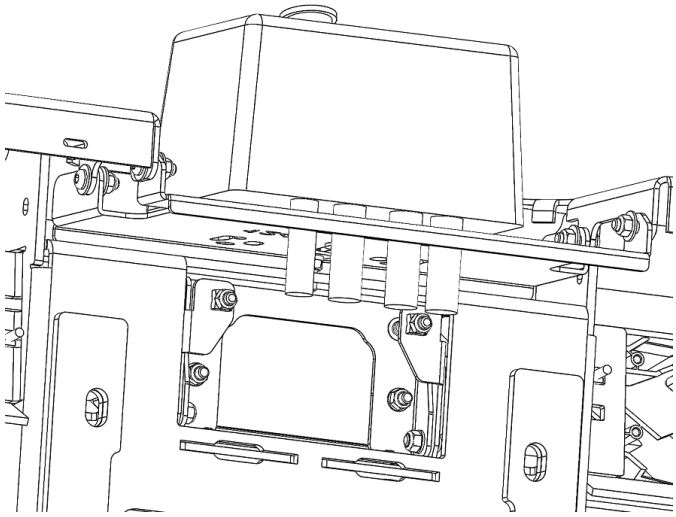
Warn XDC control box winches: Requires XDC adapter kit 3500410**.**

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

    M8 - 22 **Nm.**

11. 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.*

    M6 - 9 **Nm.**

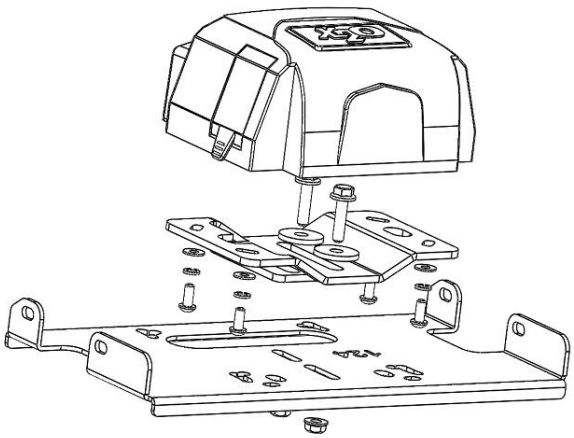


12. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip. Align the two mount tabs on each side of the mount plate to the two mount tabs on the bar and then secure using the four M6 fastener sets removed in Step 2. Route and 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

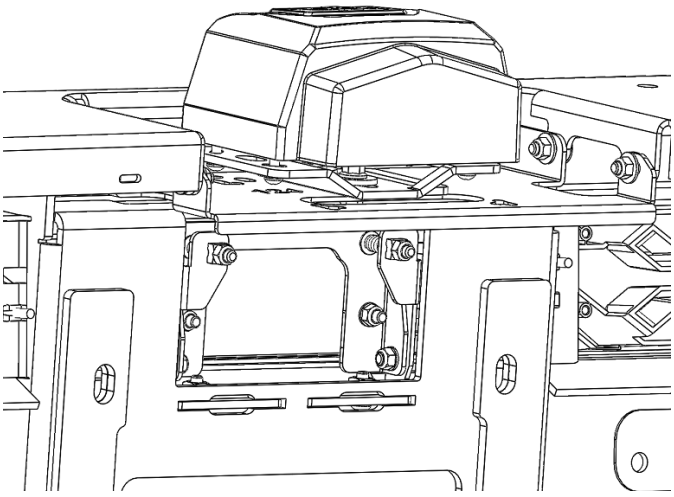
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Smittybuilt Gen 2 winches. Requires Smittybuilt adapter kit 3500770

13. Mount the Control Box to the adapter bracket included in the 3500770 kit using the M5 hardware provided in the kit.
14. Mount the control box to the 3750486 Brkt using two 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.**

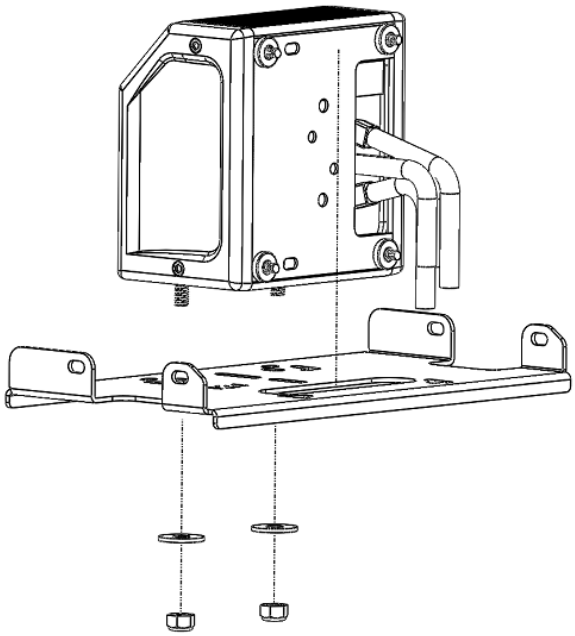


15. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip. Align the two mount tabs on each side of the mount plate then secure to the mount tabs on the bar using the four M6 fastener sets removed in Step 2. Route and cable tie 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

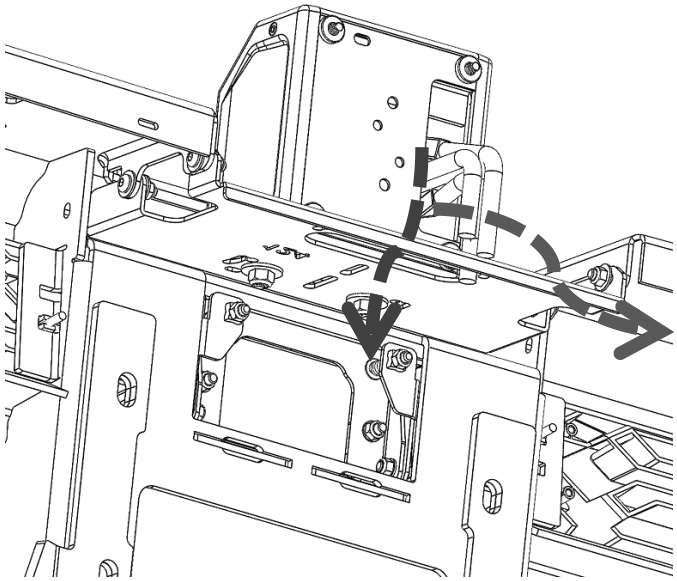
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Bushranger winches:

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

M8 - 22 **Nm.**

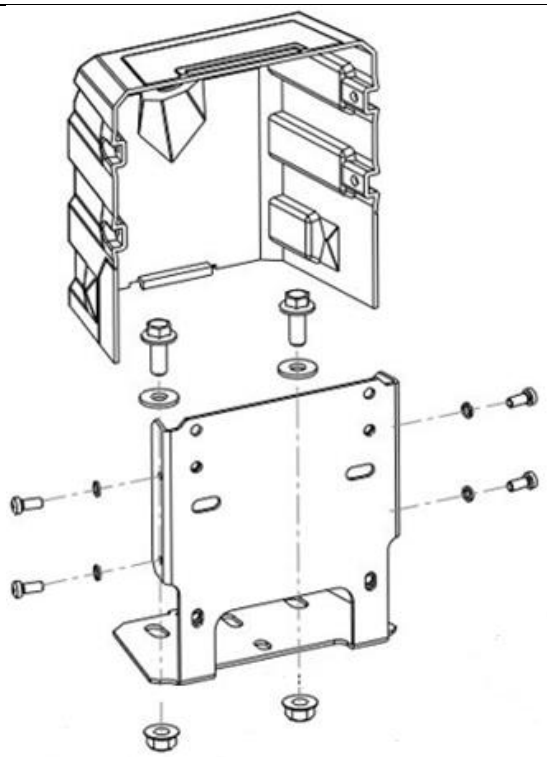


18. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip while passing the control box cables through the cut-out in the mount plate. Either between the mount tabs on the RHS of the bar ***OR*** through the slot at the back of the mount plate. Align the two mount tabs on each side of the mount plate to the two mount tabs on the bar and then secure using the four 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

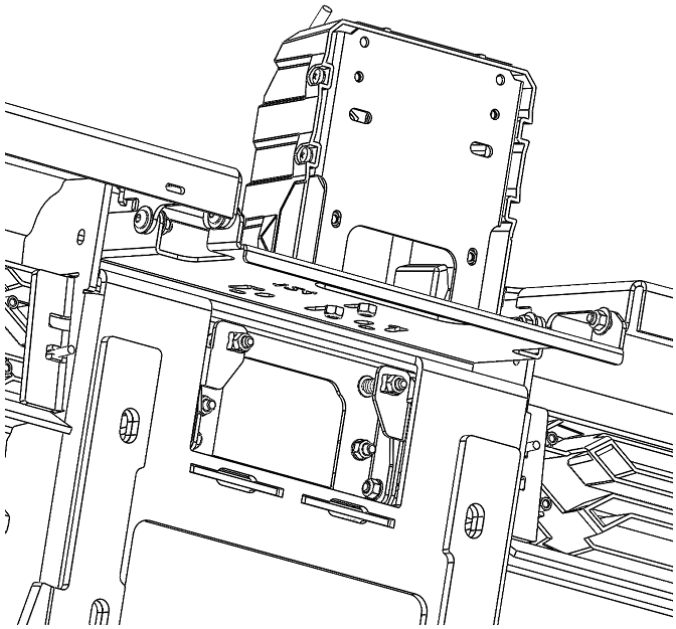
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Bushranger REVO winches:

19. Refer to “Mounting Option 3 – Vertical Mounting” on page 6 of owner’s manual.

M6 - 9 **Nm.**



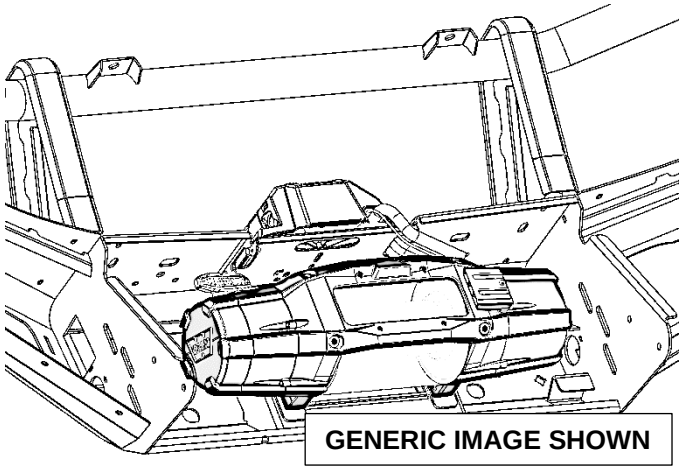
20. Carefully position the Control Box assembly in the winch recess, sliding the front of the mount plate under the winch recess lip while passing the control box cables through the cut-out in the mount plate and between the mount tabs on the RHS of the bar. Align the two mount tabs on each side of the mount plate to the two mount tabs on the bar and then secure using the four 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

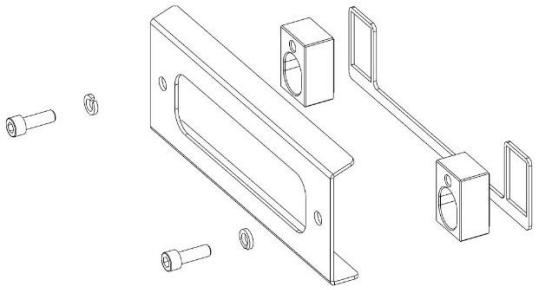
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FITTING PROCEDURE

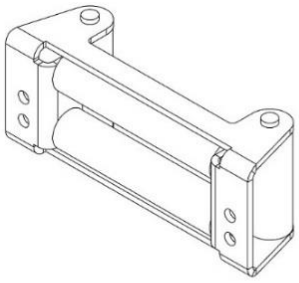


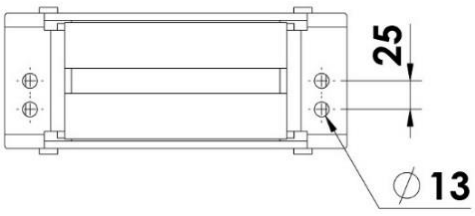
GENERIC IMAGE SHOWN

21. Locate the Bull Bar face down on a smooth non-marking surface.
22. Sit the winch in position on the bar's winch cradle.
23. 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.
24. Level the winch and tighten the bolts.

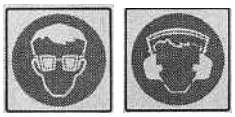


25. **For hawse fitment**, Spacer kit 3500605 is required.



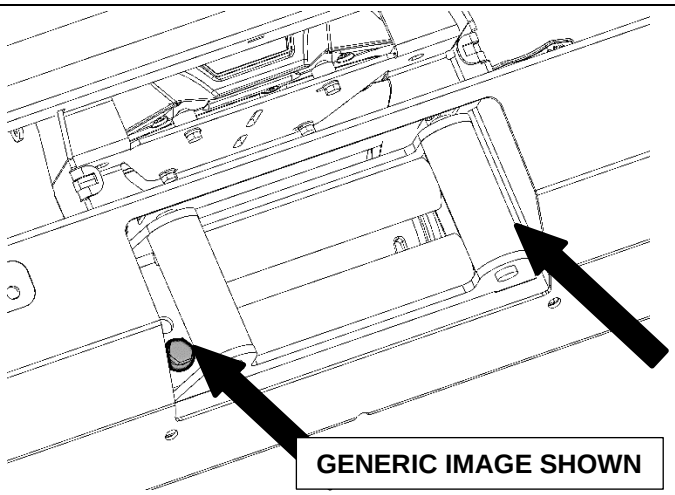


26. **For roller fairlead fitment**, if not already done, mark two hole positions 25mm below the centre holes as shown in the diagram.
27. Drill two, Ø13mm holes. De-burr the holes and protect with a zinc rich primer to prevent rust.



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

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28. Turn the bar over onto the back face.
29. Attach the roller fair lead (RFL) to the bar.

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

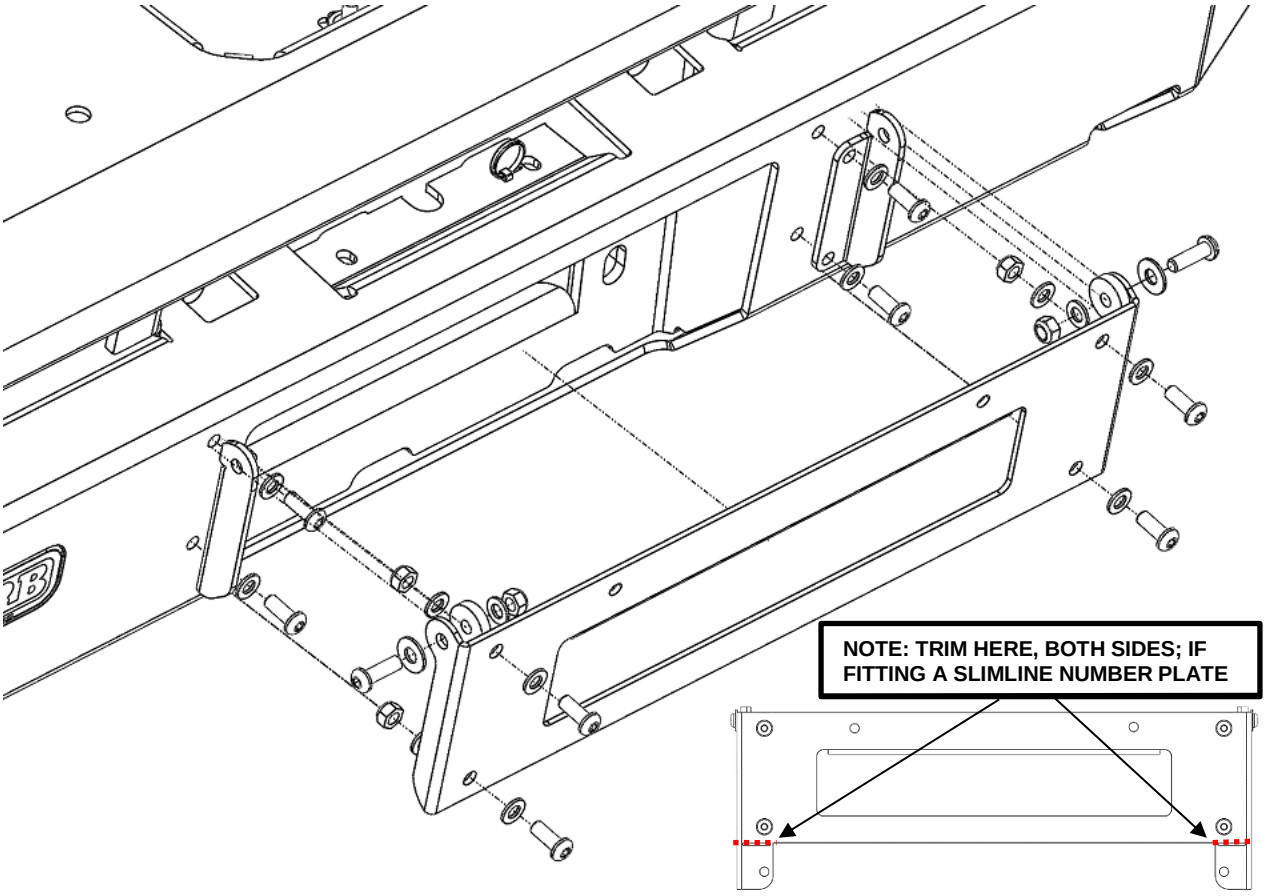
Note 2: Some winches will require 3/8" UNC bolts where others will require M10. Please check the threads before proceeding.

M10- 44 **Nm.** 3/8 UNC - 44 **Nm.**

FOLDING NUMBER PLATE FITTING PROCEDURE

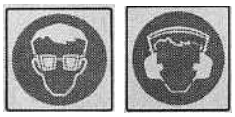
30. Fit number plate hinge brackets to front of bull bar using four 16mm M6 screw, 12mm washers and nyloc nuts. Two sets of screws, washers and nuts are provided in this kit and two sets are provided with the bull bar.
31. Assemble the larger bracket to the hinge brackets using two M6x20 screws, washers, packers and nyloc nuts provided.
32. If assembling a full-size number plate, secure to the front bracket using four M6x16 button head screws, washers and nyloc nuts as shown in the diagram below.

M6 – 9 **Nm**



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33. 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.

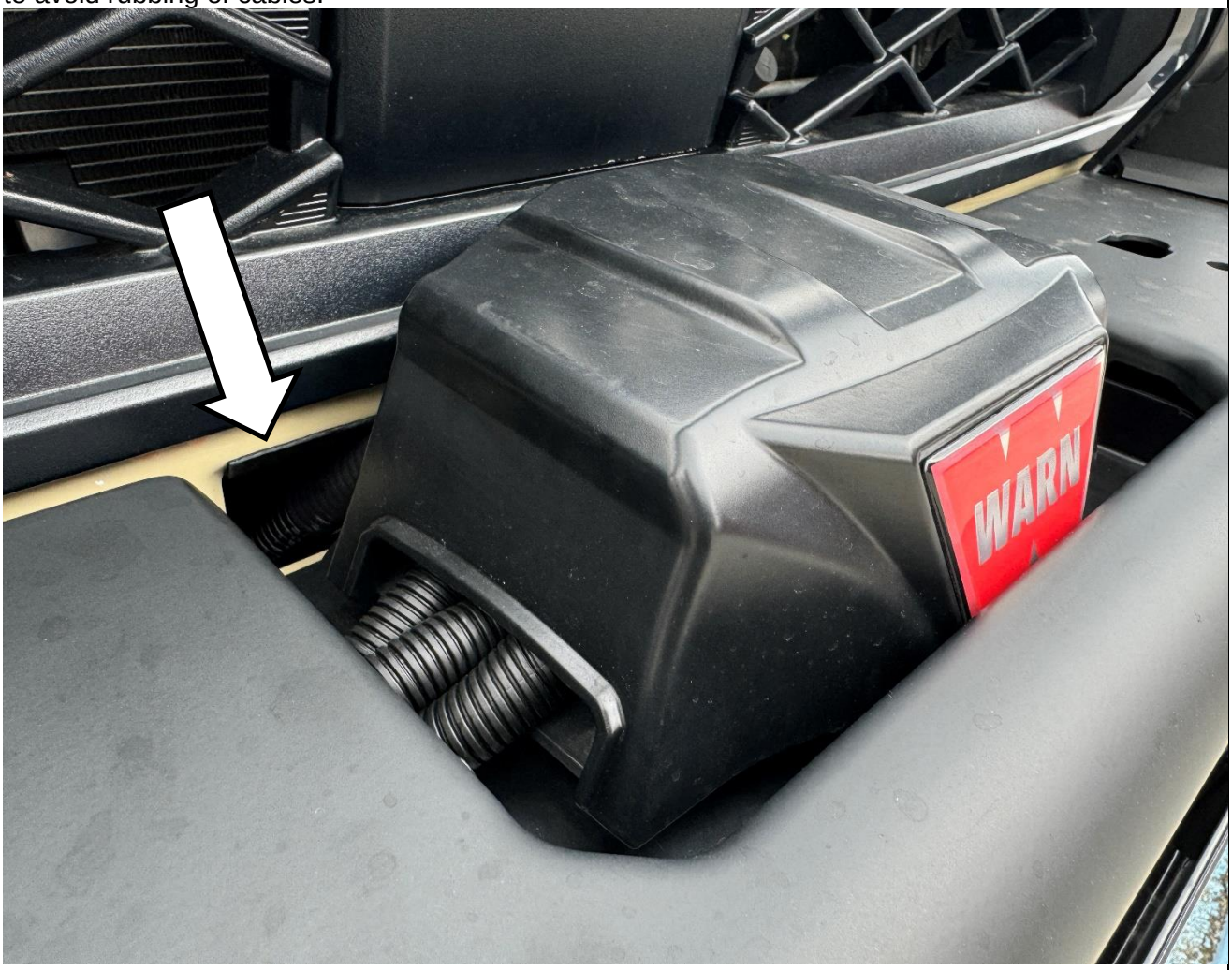


Warning: Cutting operations can result in flying debris, safety glasses should be worn.

34. Secure to the front bracket using four M6 button head screws, washers and nyloc nuts provided.

M6 – 9 **Nm**

35. If passing control box cables through vehicle grille, install pinchweld provided in the below location to avoid rubbing of cables.



36. Ensure all cables are attached as per the winch manufacturer’s instructions. Ensure cables are securely attached and cannot rub on any sharp edges.

37. Tidy the cables and secure using cable ties leaving the 2 long power cables free to be connected to the vehicles battery at end of bar fitment.

Return to the bar fitment instructions.

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