



# FITTING INSTRUCTIONS

Part Number: **3464010 F/Kit 6172174**  
Product **ARB WINCH BULL BAR**  
Description:  
Suited to **NISSAN TITAN YEAR MODELS 04 to 07**  
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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## ARB 4x4 ACCESSORIES

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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 Canuba 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.



Please contact local Authorised ARB Stockist if you would like to have this service carried out on your behalf.

## FITTING REQUIREMENTS

### REQUIRED TOOLS FOR FITMENT OF PRODUCT:

Metric socket and spanner sets 8-25mm range	External Circlip pliers
Screwdrivers Philips and Flat blade	Hacksaw or cutting knife
Power Drill 13mm capacity	10mm drill bit

### 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

### OPTIONAL LIGHT SETS TO SUIT THIS PRODUCT:

- FOG LAMP SET P# 6821201
- IF NO FACTORY FOGS FITTED ADD P#MD02 LOOM KIT, P#180209 SWITCH AND P#180215 SWITCH CAP FOR FOGS
- Up to IPF 900 SERIES FOG OR DRIVING LIGHT SETS

### OPTIONAL WINCHES WHICH SUIT THIS PRODUCT:

- WARN M12000, M15000 AND 16.5Ti

<b>PARTS LISTING</b>			
<b>APPLICATION.</b>	<b>PART NO.</b>	<b>QTY</b>	<b>DESCRIPTION</b>
<b>Mount Brackets To Chassis</b>	3757016R	1	Bracket Mount RHS
	3757016L	1	Bracket Mount LHS
	6151040	12	Bolt M10 x 1.25 x 30 (FINE THREAD)
	4581048	12	Washer Spring M10
	4581040	12	Washer Flat M10
	6151321	6	Nut Flanged M10 x 1.5
	6151357	6	Bolt SEMS M10 x 1.5 x 30mm
	3194011	2	Tension strap
<b>Bull Bar To Mount Bracket Assy</b>	6151357	2	Bolt SEMS M10 x 1.5 x 30mm
	6151321	2	Nut Flanged M10 x 1.5
	6151255	6	Bolt M12 x 1.75 x 40mm
	6151189	6	Nut M12 x 1.75
	4581049	12	Washer Flat M12
	4581050	6	Washer Spring M12
<b>Winch To Bull Bar</b>	3756775	1	Bracket Control Box Univ.
	3199790	1	Plate Trim for 16500LB Control Box
	6151364	2	Screw Cap M10 x 30
	4581291	2	Washer Flat M10 BZ
	6151321	2	Nut M10 Flanged
	180302	8	Cable Tie
<b>Winch Hole Cover Fitment (If Not Fitting Winch)</b>	6151128	2	Nut Flange M6
	6151256	2	Screw M6 St/Stl Button Head
	6191013	1	Extrusion Winch Cover
	6522048	1	Panel Winch Cover
	4581304	2	Washer M6 S/S
<b>Number Plate To Bull Bar</b>	6151017	4	Bolt M6 x 16
	6151046	4	Washer M6
	6151128	4	Nut M6 Flanged
	6781408	1	Tape Double sided
	3751384	1	Bracket Number Plate
<b>Fog Lamps and indicators</b>	3163015	1	Light Aperture Kit
	6821151R	1	Indicator
	6821151L	1	Indicator
	6821152	2	Loom
	180701	6	Scotch Locks
	180302	6	Cable Ties

## REMOVAL OF BUMPER



1. Remove grille. Use a flat blade screwdriver to release quarter turn clips



2. Undo bumper braces to chassis



3. Undo bumper mount brackets to chassis



4. ***If fog lights fitted in bumper, undo fog light loom connection***
5. Remove bumper including brackets

## FIT MOUNT BRACKETS



6. Remove and swap over tow hooks from RH to LH, LH to RH.
7. Fit RH and LH mount brackets to chassis using M10 bolt and washer sets provided in fitting kit, do not do up tight.



8. Check the inside measurement across vertical bracket plates is slightly more than 964mm, if not push apart so that the bar will fit easily.
9. Centre the brackets at this pitch
10. Nip up bracket bolts



11. Fit tension straps under each of the mount brackets using M10 SEMS bolts and flange nuts as shown
12. Refit grille

## BULL BAR PREPARATION



13. If fitting P#6821201 fog lamps, refer to instructions supplied with kit.



14. Fit the 3163015 surrounds into the openings in the wings referring to the fitting instructions supplied with surround kit.



15. Secure the number plate bracket using M6 bolts, flat washers and flange nuts. Attach the longer side to the bullbar and the shorter side to the number plate.

## FITTING PROCEDURE WINCH



**ORIGINAL POSITION**

**NEW POSITION**

16. The clutch handle must be repositioned so it is in a convenient location when mounted to bar.
17. Place the winch on its end and remove all gearbox bolts.
18. Gently raise the motor just enough to rotate it. Viewing from the gearbox end, rotate the gearbox 72deg clockwise.
19. Do not completely remove the motor and avoid damaging the gasket.
20. Refit and tighten all bolts.

***Note: Take care not to lift the assembly more than a couple of millimeters while rotating to the desired position to avoid un-meshing the gears.***

### FIT CONTROL BOX TO PAN



- For 12000lb winches, use universal control box bracket supplied, attaching to rear of control box mount studs.
  - Slide bracket flange under pan and align with mount slots.
21. Fasten in position with 2 x M10 cap screws, black washers and flange nuts



- For 15000lb winches, use Warn supplied control box bracket, attaching to rear of control box mount studs.
  - Slide bracket flange under pan and align with mount slots.
22. Fasten in position with 2 x M10 cap screws, black washers and flange nuts.

## FITTING PROCEDURE WINCH



- For 16500lb winches, apply Sikaflex (or similar product) to rear of control box trim plate from fitting kit (note orientation critical to suit final position with control box profile in pan opening).
- Position trim plate on top of pan centrally about control box opening and line up with mount slots.

23. Fasten in position with 2 x M10 cap screws and flange nuts from fitting kit.



24. Viewed from front of vehicle the winch clutch (handle) must be positioned on the LH side (same side as smaller square access hole in pan). Cable must spool from the bottom of winch. Draw off enough cable so cable crimp can be pulled through roller fairlead.

25. Bolt winch in position with the roller fair lead in place.

*Hint: To increase access to mount bolts in front of roller fairlead, remove circlips from bottom of each vertical roller shaft, push shaft up so roller can be dislodged sideways. Do up bolts in fairlead and winch, then refit circlip.*

26. 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.**



27. Bolt number plate to the bracket with the M6 X 16mm bolts and M6 flange nuts through the lower holes of the number plate.



## FITTING PROCEDURE WITHOUT WINCH



28. Bolt the number plate through the top holes using M6 X 16mm bolts and M6 flange nuts.



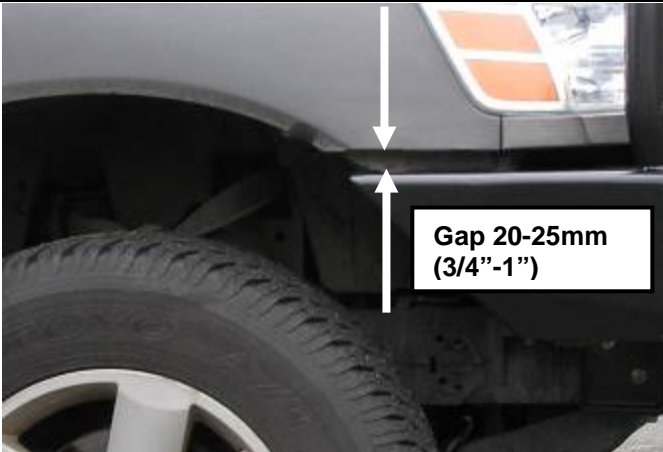
29. Wrap rubber extrusion around winch cover.
30. Place stainless steel washers over the winch cover fixing holes located on the top middle face of the winch bumper.
31. Place the winch cover on top of the winch bumper inline with the mount holes.
32. Bolt together using the M6 button head stainless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

## FITTING PROCEDURE BAR ON VEHICLE



33. Using two people, three if winch fitted, position the bar assembly on the vehicle mounts.

**Caution:** *This product is heavy, especially if a winch is fitted. Do not attempt to lift it and fit it by yourself. Have some assistants help you or use a mechanical aid such as this hydraulic lift table as shown.*



34. Bolt the bar to the mounts using M12 bolts, large flat washers and spring washers. Align the bar to the profile of the guards, grille and light profile and tighten all bolts.



35. When bar is aligned, tighten bolts.
36. Tighten mount bolts to chassis and ensure tension strap bolts are also tightened.
37. Using the M10 pilot holes in mount brackets, drill pinning hole through uprights on bull bar. Fit M10 screw, washer set and flange nut and do up tight.



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

## FITTING PROCEDURE BAR ON VEHICLE



38. Wire up indicators and running lamps. Wire loom extensions are supplied in fitting kit.

**Wiring detail:**

Black to ground

Green to turn signal lead on vehicle

Red to running light lead on vehicle



39. If winch fitted, fit off winch hook.



40. Trim fender liner as shown

**NOTE:**

- ◆ **Connect wiring to fitted lights and winch.**
- ◆ **Check that wiring does not contact sharp edges and piping etc is clear of moving parts by at least 15mm**
- ◆ **Check operation of all lights.**
- ◆ **Adjust fog lamp beam aim.**
- ◆ **Check winch operation**

**FITTED PRODUCT**

