



**WORLD'S BEST
ALLOY BULLBARS**

East Coast Bullbars (ECB Pty Ltd)

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BT140SY

REPLACES: 20.12.11

REVISED: 16.04.12

FITTING INSTRUCTIONS

TOYOTA FJ CRUISER BIG TUBE PROTECTION BAR WITH WINCH FITMENT VEHICLE FRONTAL PROTECTION SYSTEM (VFPS) FOR AIR BAG & ADR COMPLIANT VEHICLES

Check installation hardware before commencing.

1. Lift bonnet
2. Remove grille: two 10mm head bolts from centre of grille, two plastic push pull clip from top of indicator assembly. Using a flat screwdriver, gently release one plastic clip from lower area of headlight (per side) and one plastic clip from lower centre.
3. Remove five 10mm head screws (per side) from front and underside of wheel arches and two 10mm head bolts from underside centre of bumper. Remove five push pull plastic clips from top centre of plastic bumper cover. Push sides of bumper rearward and pull out from vehicle to unclip. Remove bumper cover from vehicle.
4. To remove lower headlight trim, from headlight side, gently pull lower headlight trim forward to unclip. **See figure 1.**
5. Remove centre top bumper cover support. Three 10mm head bolts. **See figure 2.**
6. Remove bumper cover plastic guard clips. Two 10mm head bolts. From guard section of bumper cover support, remove white plastic clip. Refit to front of flare and reinstall removed bolt. **See figure 3.**
7. Remove headlight sections of top bumper cover support. Three 10mm head nuts. **See figure 2.**
8. Trim front from top bumper cover support mounts under headlight leaving approximately 90 mm from body. **Blow filings clear and treat all exposed metal with a rust inhibitor. See figure 4.**
9. Splice ECB indicator / park light to vehicles original equipment wiring behind light using cable locks provided.
10. Fit ECB steel light supports (supplied) to underside of headlight, front of guard and top bolt of bumper cover support on radiator support using M6 bolts from vehicle, flat washer and M6 nut (supplied) for guard side and 3/8 x 1 ¼ bolts, flat washers and nyloc nuts (supplied) for under headlight **See figure 5.**
11. Remove two 10mm bolts from power steering cooler tube to radiator support and one 12mm head bolt from side of driver's side chassis rail. Disconnect retaining clamp from tubes, one 8mm head bolt. Refit top of retaining clamp and rubber tube keepers to ECB steel tube bracket (supplied). Fit ECB steel power steering bracket (supplied) to radiator support in position power steering tube was removed using original bolts. Install power steering tube to ECB power steering bracket using two M6 x 20 bolts, flat washers, and nyloc nuts (supplied). Do not reconnect to chassis rail at this time. **See figures 6 and 7.**
12. Remove bumper support only from front of chassis rails, two 14mm head nuts (per side). Leave crush cans attached to chassis rails.



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13. Enlarge holes in top of crash cans to allow fitment of chassis spacers. **Blow filings clear and treat all exposed metal with a rust inhibitor.**
14. Install roller fairlead to front of ECB winch mounting bracket (supplied) using 3/8 x 1 ¼ bolts, flat washers, spring washers and nuts (supplied). Place bolt heads from inside of ECB winch frame.
15. Wire winch as per manufacturers instructions and attach to ECB winch mounting bracket using bolts supplied with winch. Pull wire through fairlead as installing. Attach winch control box to ECB control box mount (supplied) in correct position.
16. Place 3/8 x 5 bolts and washers (supplied) through steel angle mounts. Slide pipe chassis spacers (supplied) over bolts and feed chassis spacers and bolts into top holes. **See figure 8.**
17. Lift ECB winch mounting bracket and connect to underside of crash cans using flat washers, spring washers and nuts. **Caution HEAVY, use two person lift or use mechanical aids. Finger tighten only.**
18. Fit ECB winch support brackets (supplied) to front of chassis rail using original nuts and two 3/8 x 1 ½ bolts, flat washer, spring washer and nuts (supplied).
19. Feed 3/8 x 1 ¼ bolt, washers on 300mm wire (supplied) through 40 x 18 hole in chassis, **see figure 9**, to protrude out of forward chassis hole.
20. Place ECB steel mounting brackets (supplied) over 3/8 x 1 ¼ bolt (supplied). Insert M8 x 35 x 1.25 bolts, spring washers and 3/8 flat washers (supplied) into upper captive nut in chassis. (On drivers side of vehicle, include ECB steel tube bracket on outside of ECB steel mounting bracket). **FINGER TIGHTEN ONLY** to hold steel mounting bracket in place. Use 3/8 washer/nut (supplied) for 3/8 x 1 ¼ bolt. **FINGER TIGHTEN ONLY.**
21. Insert M12 x 35 x 1.25 bolt, spring washer and flat washer (supplied) into lower captive nut in chassis. **FINGER TIGHTEN ONLY. See figure 10**
22. Attach ECB steel angle mounts (supplied) to steel mounting brackets. Feed 3/8 x 1 ½ bolts (supplied) from inside, attach washer and nuts (supplied). **FINGER TIGHTEN ONLY.**
23. Level and square steel mounting brackets, check measurement between steel mounting brackets for protection bar to mount on inside. **TIGHTEN ALL BOLTS except M12 x 35 x 1.25 bolts in side of chassis.** Recheck measurements. Adjust if necessary. Fold approx 50mm of wire on 3/8 x 1 ¼ bolts around hole in chassis. Crimp tight to chassis and cut off excess. **See figure 11.**
24. Refit grille and lower headlight trim to vehicle using original equipment bolts where required.
25. Fit ECB LED indicator / park lights into protection bar as per instructions supplied with the LED indicator kit. **NOTE: Ensure park light is to outside. See figure 12.**
26. Attach 6mm clip lock trim (supplied) to top of ECB protection bar and winch cut out in skirt. **NOTE: Trim off lower edge on an angle so trim will sit flush with end of protection bar. See figures 13, 14 and 15.**
27. Attach ECB protection bar to inside of steel mounting brackets. Use ½ x 1 ½ bolts, flat washers, spring washers and nuts (supplied). **FINGER TIGHTEN ONLY.**
28. Align ECB protection bar with underside of grille and headlights. **See figures 16 and 17.** Allow 12 to 15mm clearance from grille and headlight panels to allow for chassis twist in rough terrain. **TIGHTEN ALL BOLTS.**



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29. Connect ECB indicator/park lights. **CHECK OPERATION.**
30. Fit ECB control box mount to lower leg of protection bar using two M6 x 20 bolts, spring washers and flat washers (supplied).
31. Remove M12 x 35 x 1.25 bolts from lower side of ECB steel mounting brackets. Install ECB under body guard (supplied) to top of end skirt of Protection Bar using two M6 x 20 bolts, flat washers and nyloc nuts (supplied). Refit M12 bolt into position. Check and adjust under body guard so it does not rub on bottles or other under guard equipment. **TIGHTEN ALL BOLTS.**
32. Push inner guard up into guard and carefully screw inner guard to rear of under body guard using two self tapping screws (per side)(supplied). **CAUTION:** Take care not to place screws close to plastic bottle on driver's side of vehicle as damage could occur.
33. Trim inner guards neatly around edge of under body guard.

ENSURE NUMBER PLATE IS CLEARLY VISABLE

Note: When fitting/refitting the licence plate to the vehicle, ensure there is no obstruction to licence plate vision in accordance with local authorities. If required relocate licence plate to an alternate location.

Further VFPS Notes:

- a) Do not attach VFPS to the vehicle using anchorages not intended for this purpose (e.g. engine mounting bolts).
- b) Do not use this product for any vehicle make or model, other than those specified by the VFPS manufacturer.
- c) Do not remove the plaque or label from the VFPS.
- d) Do not modify the structure of the VFPS in any way.
- e) No accessory or fitment should project forward of the VFPS forward profile.
- f) **ENSURE THESE INSTRUCTIONS ARE LEFT WITH VEHICLE OWNER AND/OR OPERATOR.**

IMPORTANT INFORMATION

Periodically check bolts and nuts for correct tightness, especially if travelling on rough roads

FITTING KIT

1 – Pair steel mounting brackets	2 – M8 x 35 x 1.25 bolts
2 – Steel mount support angles	2 – M8 flat washers
1 – Steel winch mounting bracket	2 – M8 spring washers
2 – Steel winch support brackets	2 – M12 x 35 x 1.25 bolts
1 – Pair light supports	2 – M12 flat washers
1 – Power steer bracket	2 – M12 spring washers
1 – Power steer tube bracket	6 – ½ x 1 ½ bolts
1 – Control box mount	6 – ½ spring washers
1 – Pair under body guards	6 – ½ flat washers
4 – 81mm, 10 nb tube spacer	6 – ½ nuts
12 – 3/8 x 1 ½ bolts	8 – M6 x 20 bolts
4 – 3/8 X 5 bolts	16 – M6 flat washers
6 – 3/8 x 1 ¼ bolts	8 – M6 nyloc nuts
2 – 3/8 x 1 ¼ bolts and washers on 300mm wire	1 – ECB LED Indicator / Park light kit
46 – 3/8 flat washers	6 – Cable locks
22 – 3/8 spring washers	2 – Fog light trims
22 – 3/8 nuts	1 – 1700mm length 6mm clip lock trim
2 – 3/8 nyloc nuts	1 – 700mm length 6mm clip lock trim



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Figure 1: Rear of under headlight trim.

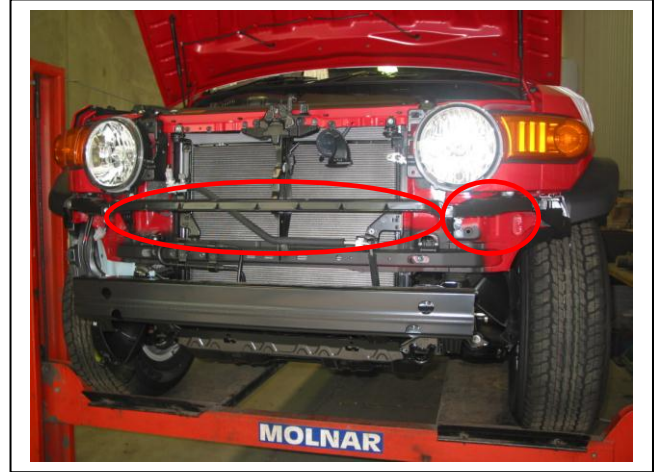


Figure 2: Centre top and headlight sections of bumper cover support.



Figure 3: Re insert plastic clip from headlight section into front of flare.

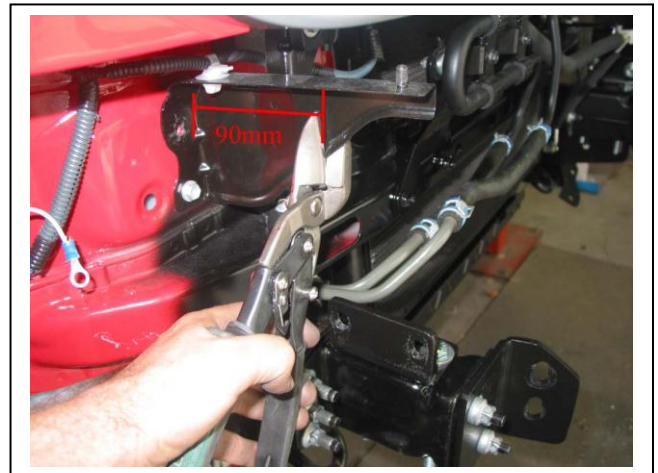


Figure 4: Trim front from bumper cover support mounts.



Figure 5: Headlight support mounts.



Figure 6: Power steering tube support



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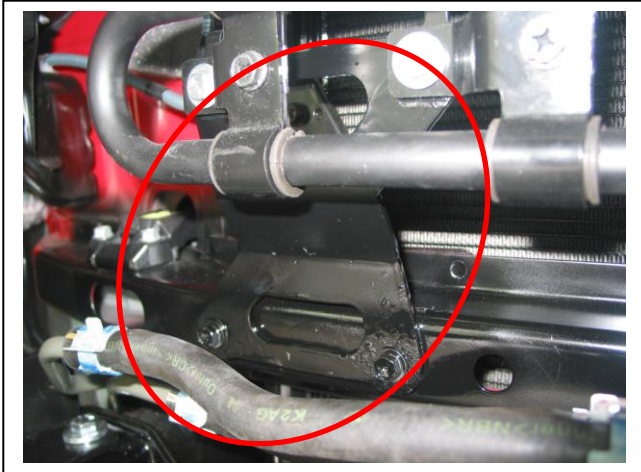


Figure 7: Power steering mount.



Figure 8: Top mount support – drop bolts in from top

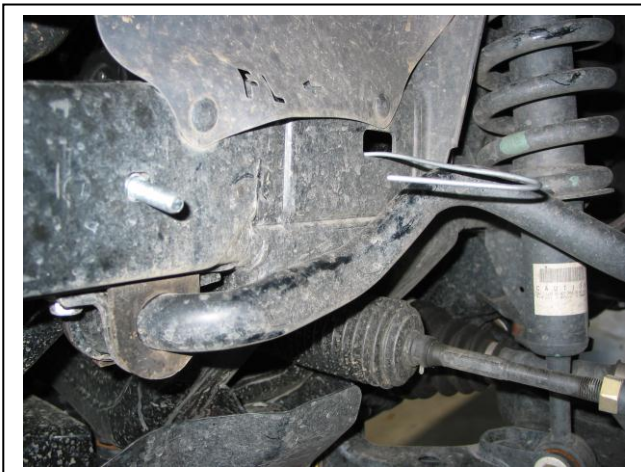


Figure 9

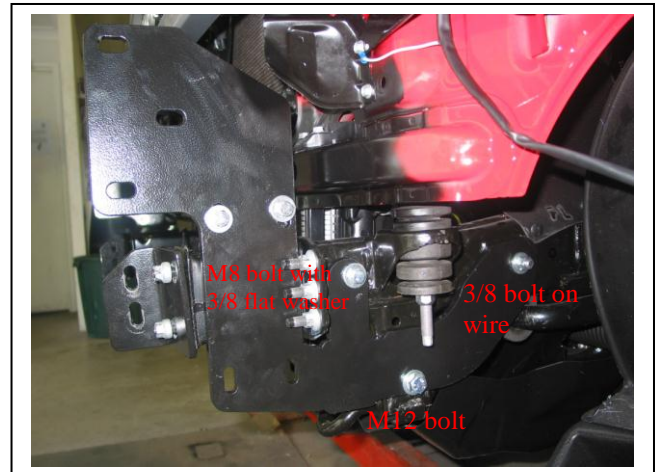
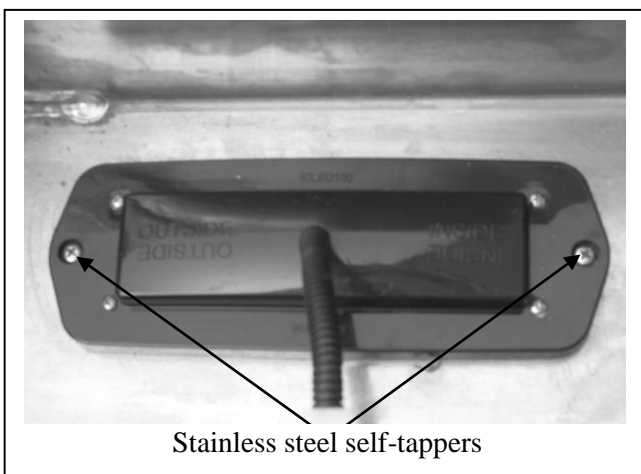
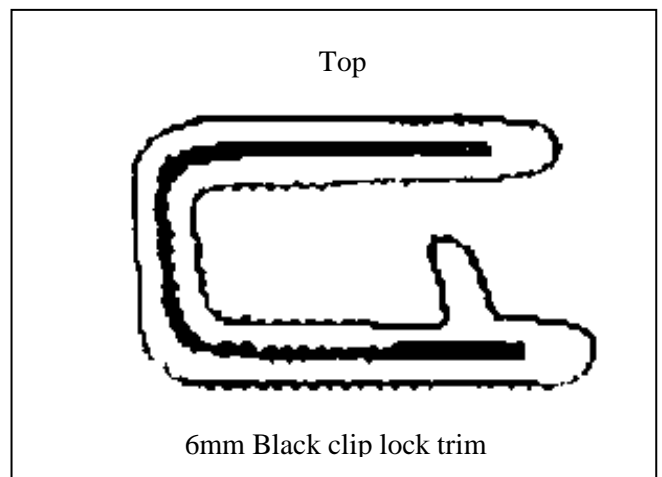


Figure 10: bolt in side of chassis rail



Stainless steel self-tappers

Figure 10



6mm Black clip lock trim

Figure 11



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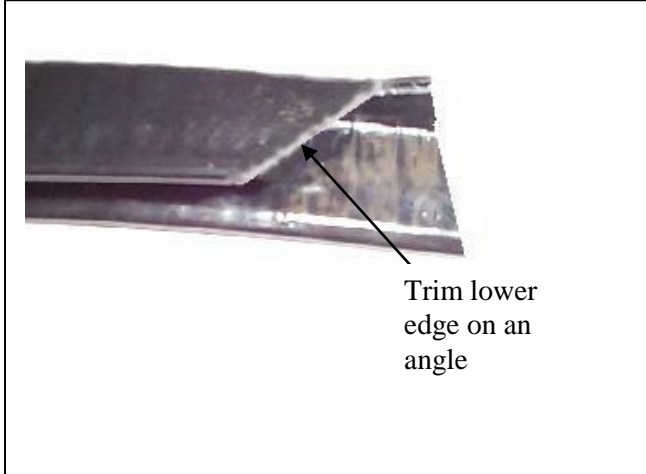


Figure 12

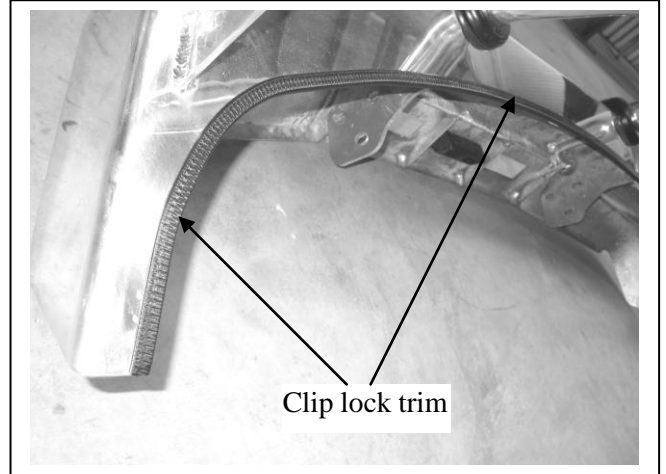


Figure 13



Figure 14



Figure 15



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We value your comments

Dear Fitter,

ECB would like to know how you went with the installation of this product. We value your comment and may need to contact you to clarify some details so please complete your contact details clearly.

We would appreciate if you could complete as many of the following details as possible.

Your Name:	Your contact No.
Product Part No.	Product Invoice No.
Product Description:	Make, model, and year of vehicle:
Product Work Order No.	Company your from/Company product purchased from:

Date of Fitment: ____/____/____

Was the fitting hardware supplied complete?

Yes

No

If no what was not supplied

Did the installation go well?

Yes

No

Please provide comments

Please draw diagrams if you need to.

Post to
Reply Paid 122
PO Box 122
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DESPATCH CHECKLIST BT140SY

Work Order #	
Finish:	
Transport:	
Due Date:	

**See other side off
this page for
photos of all
mounts**

- 1 – Pair Steel mounting brackets.
- 2 – Steel mount support angles
- 1 – Steel winch mounting bracket
- 2 – Steel winch support brackets
- 1 – Pair light supports
- 1 – Power steering bracket
- 1 – Power steer tube bracket
- 1 – Control box mount
- 1 – Pair under body guards – **P/C Black for Polished / silver ripple and Black finishes – to be silver hammer tone if the bar is silver hammer tone**
- 1 – Bolt Kit.
- 1 – LED ECB indicator / park light kit.
- 1 – 1700length 6mm clip lock
- 1 – 700mm length 6mm clip lock trim
- 2 – ECB Overrides – **Fitted to Bar**
- 5 – 6mm Air Vents – **Fitted to Bar**



Is this product “the best it can be” Yes _____ / _____
Wrapper’s initials / Checker initials

If **NO** fix before continuing

All parts checked and completed by:

Nut and bolts: _____ Date ___/___/___

Order control: _____ Date ___/___/___

Final wrap check: _____ Date ___/___/___



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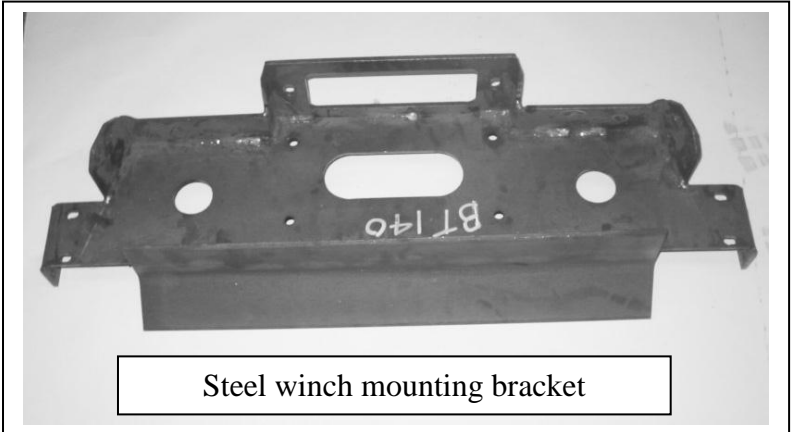
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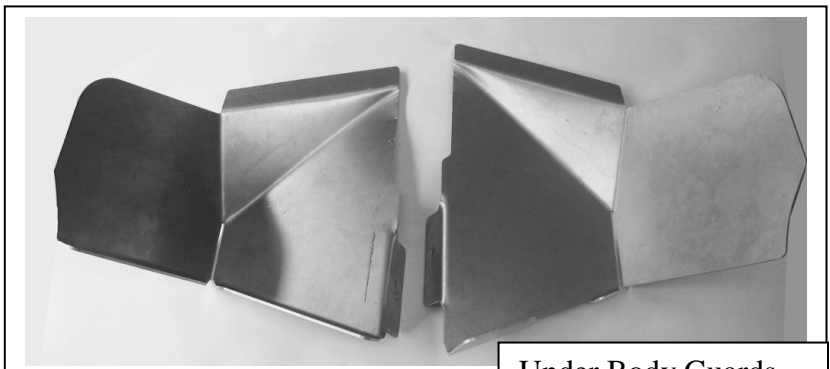
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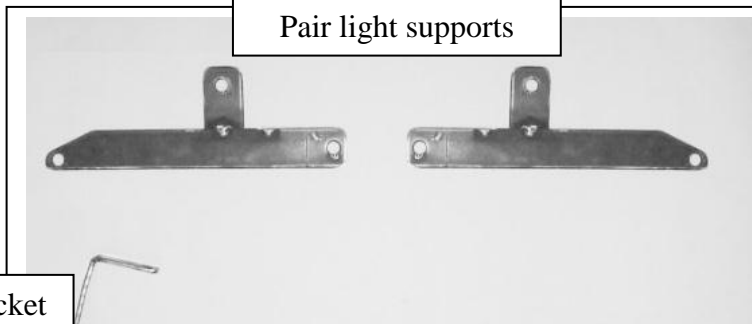
Pair Steel mounting brackets



Steel winch mounting bracket



Under Body Guards



Pair light supports

Power steering tube bracket

Steel winch support brackets

Power steering bracket

Steel mount support angles

Control box bracket

