



**WORLD'S BEST
ALLOY BULLBARS**

East Coast Bullbars (ECB Pty Ltd)

Tel: 07 3897 5700

Fax: 07 3283 1168

ecb@ecb.com.au www.ecb.com.au

29 Snook St
Clontarf QLD 4019
Australia

Po Box 122
Margate QLD 4019
Australia

BT68SY

REPLACES: 16.02.10

REVISED: 29.06.10

FITTING INSTRUCTIONS

LANDCRUISER 100 SERIES IFS BIG TUBE™ PROTECTION BAR VEHICLE FRONTAL PROTECTION SYSTEM (VFPS) FOR ADR AND AIR BAG COMPLANT VEHICLES

Check installation hardware before commencing.

1. Lift Bonnet. Remove grille, three PK screw at top and two plastic clips at bottom. Remove bumper cover. Three plastic clips behind bottom of grille area, **See figure 1**, one 10mm head PK screw (each side at top of bumper side returns and four to six 10mm head bolts (depending on model) along bottom of bumper.
2. Remove foam from bumper sub-frame to access sub-frame bolts.
3. Remove bumper sub-frame.
4. Remove tow hook tie and down brackets.
5. Bend bumper cover locating tab under headlight downwards (98-9/02 models only).
6. *For 98-04/05 Models:* Remove indicators from vehicle (one PK screw under bonnet, top outside of headlight) push out from under guard. Splice ECB wiring into original indicator wiring. Use cable locks (supplied). Splice ECB park light wiring into original park light wiring. Refit original indicators.

For 05/05- Models: Remove trim under headlight assemblies, one PK self-tapper – then pull outer edge off plastic push in-out clip. **See figure 2**. Remove headlight assemblies to access original indicator and park light wiring, three 10mm head bolts and one 10mm head self-tapper. **See figure 3**. Splice ECB wiring into original indicator wiring. Use cable locks (supplied). Splice ECB park light wiring into original park light wiring. Connect ECB indicator / park lights and check operation. One confirmed remove. Refit original indicators / headlight assemblies and trim.

7. Attach ECB steel mounting brackets (supplied) to vehicle. **NOTE:** Tilt steel mounting brackets slightly in toward centre and feed onto chassis. Use M10 x 30 x 1.25 bolts (supplied) in place of original bumper sub frame bolts. **FINGER TIGHTEN ONLY. See figures 4 and 5.**
8. Insert ½ x 6 bolts (supplied) vertically through mount hole at front of chassis. Place 40mm round spacer (supplied) between mount and top of chassis. Use flat washer, spring washer and nuts (supplied). **FINGER TIGHTEN ONLY. See figure 5.**
NOTE: Ensure all air conditioning lines are clear of nut/bolt on passenger side. Bend slightly to clear if necessary.
9. Replace tow hooks and tie down brackets over steel mounting brackets using original bolts. **FINGER TIGHTEN ONLY.**
10. Fit ECB LED indicator / park lights (supplied) into protection bar as per instructions supplied with the LED indicator kit. **NOTE: Ensure park light is to outside. See figure 6.**
11. Attach infill trim (supplied) to top of ECB protection bar. **NOTE:** Trim 30mm off lower edge so trim will sit over end of protection bar. **See figures 7 and 8. Trim excess off end to follow protection bar. See figure 9.**
NOTE: Seal any exposed edges of trim with silicone or similar to avoid corrosion of inner steel.



**WORLD'S BEST
ALLOY BULLBARS**

East Coast Bullbars (ECB Pty Ltd)

Tel: 07 3897 5700

Fax: 07 3283 1168

ecb@ecb.com.au www.ecb.com.au

29 Snook St
Clontarf QLD 4019
Australia

Po Box 122
Margate QLD 4019
Australia

12. Attach round cut out trims (supplied) into the round cut outs on the front of the protection bar. **NOTE:** Wider part of trim faces to bottom side of cut out.
13. Refit grille to vehicle.
14. Attach ECB protection bar to inside of steel mounting brackets using ½ x 1 ½ bolts and nuts (supplied). **FINGER TIGHTEN ONLY.**
15. **TIGHTEN STEEL MOUNTS TO CHASSIS.** Align protection bar with vehicle. Adjust on slot holes for protection bar to sit neatly around grille and headlight under panels.
16. Adjust at side returns so protection bar infill trim just makes contact with vehicle guards. **See figure 10.**
17. **TIGHTEN PROTECTION BAR BOLTS/NUTS** to a force of 130 N-m (100ft/lb).
18. Connect ECB wiring to ECB indicators / park lights. Use cable lock (supplied). **CHECK FOR CORRECT OPERATION AND TIDY WIRING.**
19. Remove centre air vent from protection bar skirt.
20. Remove three 12mm head bolts for original steel under guard. **See figure 11. Note:** Loosen side bolts to drop guard if necessary.
21. Slide ECB protection plate (supplied) in between under guard and chassis. Use original bolts. **FINGER TIGHTEN ONLY.**
22. Using alloy protection plate as a guide, drill three 6mm holes through skirt on protection bar. Use ¼ x 1 bolts, flat washers and nylock nuts (supplied). **TIGHTEN ALL BOLTS/NUTS. See figure 12.**
NOTE: Access centre nut through air vent cut out. Replace air vent.

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



**WORLD'S BEST
ALLOY BULLBARS**

East Coast Bullbars (ECB Pty Ltd)

Tel: 07 3897 5700

Fax: 07 3283 1168

ecb@ecb.com.au www.ecb.com.au

29 Snook St
Clontarf QLD 4019
Australia

Po Box 122
Margate QLD 4019
Australia

FITTING KIT

| | |
|--|--|
| 2 – Steel mounting brackets. | 8 – ½ spring washers. |
| 1 – Alloy protection plate | 3 – ¼ x 1 bolts. |
| 2 – 40mm alloy washers c/w 13mm round holes. | 3 – ¼ nylock nuts. |
| 4 – M10 x 30 x 1.25 bolts. | 6 – ¼ flat washers. |
| 4 – 3/8 flat washers. | 1 – ECB Indicator / Park light kit. |
| 4 – 3/8 spring washers. | 6 – Cable locks. |
| 2 – ½ x 6 unc bolts and nuts. | 1 – 2500mm length 6mm black infill trim. |
| 6 – ½ x 1 ½ bolts and nuts. | 2 – Round cut out trims. |
| 16 – ½ flat washers. | |

3 plastic clips



Figure 1

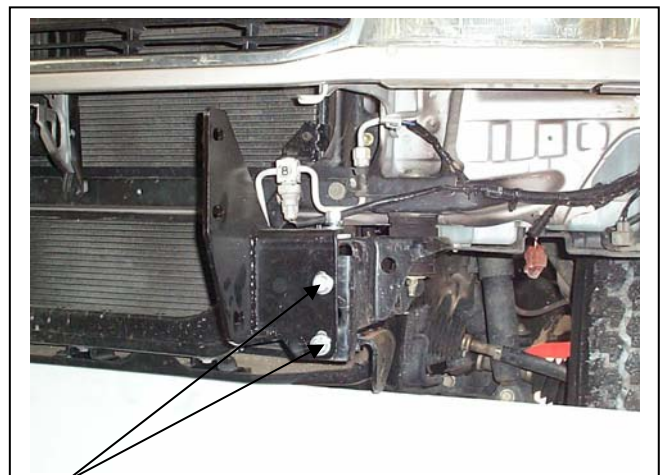
Removing trim under headlight assembly



Figure 2 – Drivers side shown



Figure 3



M10 x 30 x 1.25
bolts

Figure 4



**WORLD'S BEST
ALLOY BULLBARS**

East Coast Bullbars (ECB Pty Ltd)

Tel: 07 3897 5700

Fax: 07 3283 1168

ecb@ecb.com.au www.ecb.com.au

29 Snook St
Clontarf QLD 4019
Australia

Po Box 122
Margate QLD 4019
Australia

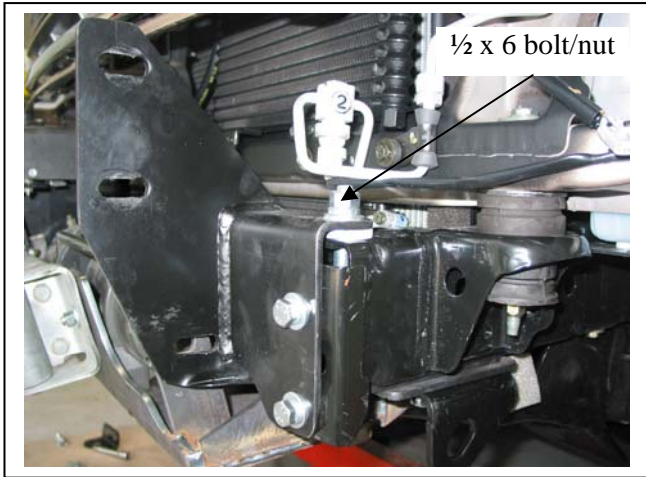


Figure 5

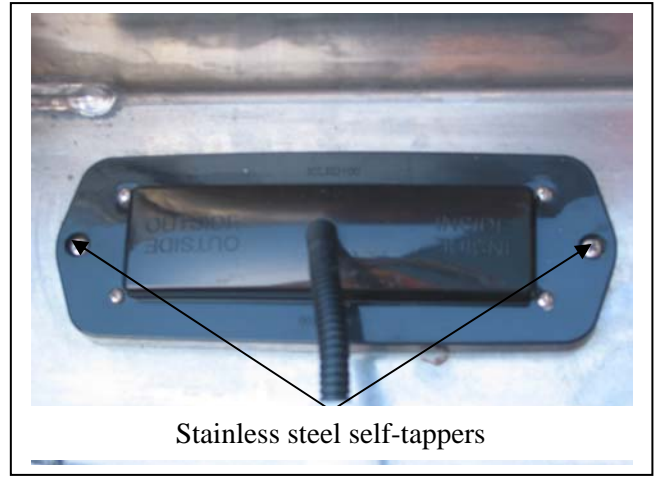


Figure 6

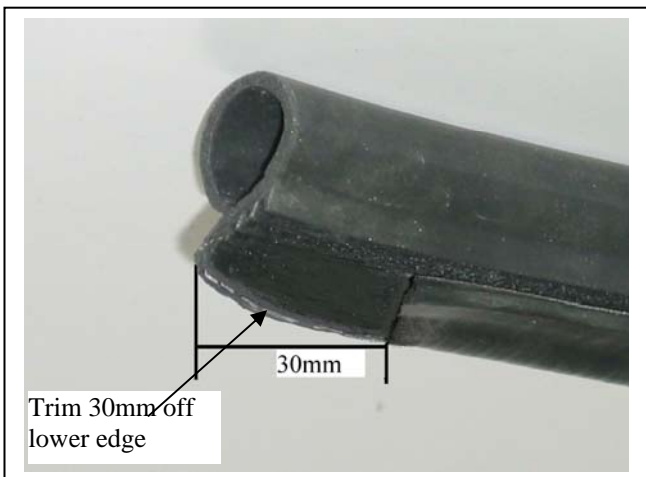


Figure 7

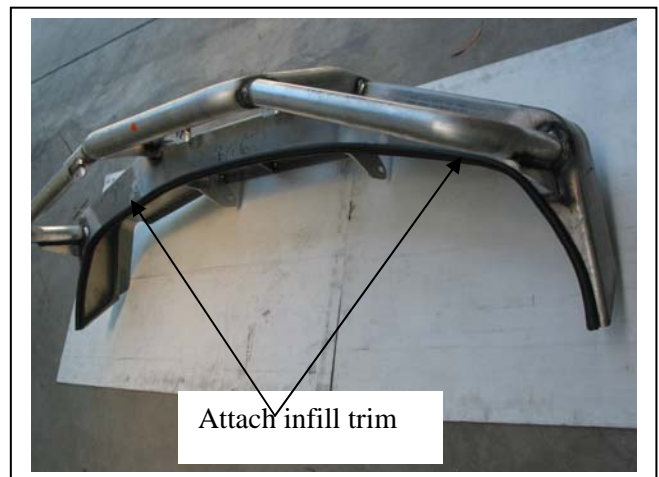


Figure 8

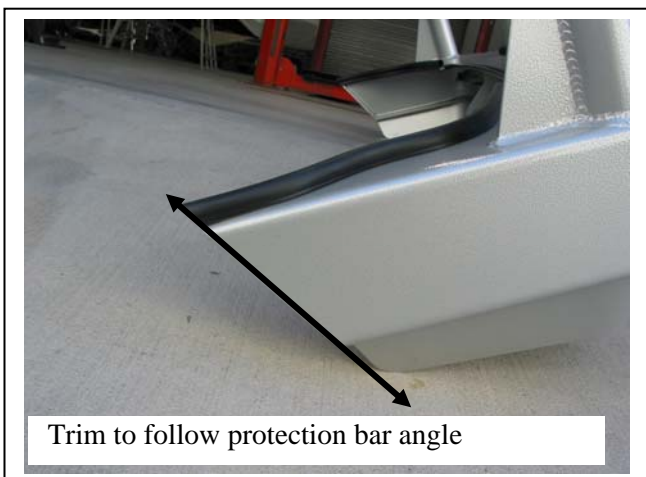


Figure 9



Figure 10

Note: Example only angle on bar maybe different to the above



**WORLD'S BEST
ALLOY BULLBARS**

East Coast Bullbars (ECB Pty Ltd)

Tel: 07 3897 5700

Fax: 07 3283 1168

ecb@ecb.com.au www.ecb.com.au

29 Snook St
Clontarf QLD 4019
Australia

Po Box 122
Margate QLD 4019
Australia

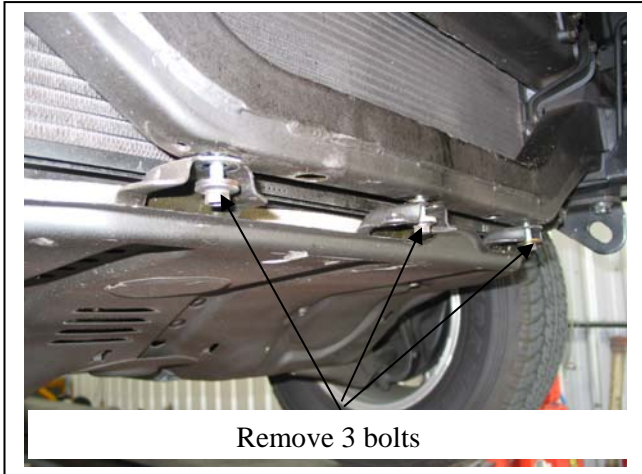


Figure 11



Figure 12



**WORLD'S BEST
ALLOY BULLBARS**

East Coast Bullbars (ECB Pty Ltd)

Tel: 07 3897 5700

Fax: 07 3283 1168

ecb@ecb.com.au www.ecb.com.au

29 Snook St
Clontarf QLD 4019
Australia

Po Box 122
Margate QLD 4019
Australia

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
Margate QLD 4019

Fax to
(07) 3283 1168



WORLD'S BEST
ALLOY BULLBARS

East Coast Bullbars (ECB Pty Ltd)

Tel: 07 3897 5700

Fax: 07 3283 1168

ecb@ecb.com.au www.ecb.com.au

29 Snook St
Clontarf QLD 4019
Australia

Po Box 122
Margate QLD 4019
Australia

DESPATCH CHECKLIST BT68SY

| | |
|--------------|--|
| Work Order # | |
| Finish: | |
| Transport: | |
| Due Date: | |

- 2 – Steel mounting brackets.
- 1 – Alloy protection plate
- 1 – Bolt Kit.
- 1 – ECB LED Indicator / Park light kit.
- 1 – 2500mm length 6mm infill trim
- 2 – Round cut out surrounds
- 2 – ECB Overriders – **Fitted to Bar**
- 3 – 6mm Air Scoops – **Fitted to Bar**

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



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 __/__/__



**WORLD'S BEST
ALLOY BULLBARS**

East Coast Bullbars (ECB Pty Ltd)

Tel: 07 3897 5700

Fax: 07 3283 1168

ecb@ecb.com.au www.ecb.com.au

29 Snook St
Clontarf QLD 4019
Australia

Po Box 122
Margate QLD 4019
Australia

