



WORLD'S BEST
ALLOY BULLBARS

East Coast Bullbars (ECB Pty Ltd)

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8T130SY, NB6T130SY, NBT130SY

REPLACES: 00.00.00
REVISED: 16.03.13

FITTING INSTRUCTIONS

TOYOTA RAV 4 01-2013 on TYPE 8, 63mm SERIES 2 NUDGE BAR and 76mm NUDGE BAR VEHICLE FRONTAL PROTECTION SYSTEM (VFPS) FOR AIR BAG & ADR COMPLIANT VEHICLES

Check installation hardware before commencing.

1. Lift Bonnet
2. Across top of false grille, remove two 10mm head bolts, one push pull plastic clip, one push pull plastic clip with rubber top and two Phillips head screws with rubber top. From underside of vehicle, remove six 10mm head bolts. On inner guards one philips head screw and one flat blade clip (per side). Carefully pull out on rear of wings to unclip bumper from guards, unplug fog lights (if fitted) and remove front bumper. Remove polystyrene infill from front of bumper support.
3. Disconnect wiring from horns and temperature sensor. Remove wiring from top of bumper support in readiness for removal of bumper support.
4. Remove bumper support, four 14mm head bolts.
5. Install ECB steel mounting brackets (supplied) onto front of bumper support. Two of the holes will match the bumper support (one only on rear face). Using measurement of inside of Nudge bar and Type 8 bar (to outside of steel mounts) and outside of Series 2 nudge bar (to inside of steel mounts), align steel mounting brackets on bumper support. Ensure steel mounting brackets are central to bumper support. Drill holes in bumper support using ECB steel mounting brackets as a guide. **Blow filings clear and treat all exposed metal with a rust inhibitor**
6. Install steel mounting brackets to bumper support using four M10 x 60 bolts and steel washer plate (supplied) from rear with flat washer, spring washer, and nut (supplied) at front. Fit 3/8 x 6 bolts, flat washers, spring washers and nuts (supplied) to rear holes of mount through crush cans. **See figures 1 and 2. TIGHTEN ALL BOLTS.**
7. Refit bumper support to vehicle using M10 x 30 bolts, spring washers and flat washers (supplied). Refit electrics to original position connecting horns and air temperature sensor. **NOTE:** Electrical wiring can be tucked into area between top of ECB steel mounting brackets and bumper support without risk of damage.
8. Remove lower plastic bumper support four 10mm head bolts and lower section of air dam from front of vehicle to allow access to rear bolt of protection bar. Allow under body guard to hang.
9. Using measurement of steel mounting bracket, mark rear of plastic bumper. Ensure marks are central to plastic bumper. Measure opening in plastic bumper to suit side of steel mount alloy Protection bar mounts. Trim fins from lower bumper grille to suit. **Caution:** For best possible result, only trim the amount required fitting the protection bar and mounts through.
10. Trim the rear of the polystyrene infill to suit the steel mounting brackets. **See figure 3.** The polystyrene will sit firmly in the rear of the plastic bumper as bumper is being refitted.



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11. Refit plastic bumper and polystyrene infill as per reverse of step 2. Care must be taken not to damage vehicle or plastic bumper when refitting. **See figure 4.**
12. Install ECB Protection Bar onto steel mounting brackets using M10 x 35 bolts, flat washers, spring washers and nuts (supplied).
13. Align ECB protection bar with front of vehicle. **TIGHTEN ALL BOLTS.** See **figure 5, 7 and 9** for front views and **figures 6, 8 and 10** for side views
14. **Important:** Refit radiator air dam to vehicle from under bumper.
15. Refit lower plastic bumper support to underside of bumper.

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 ECB steel mounting brackets | 2 – 3/8 x 6 bolts. |
| 2 – ECB steel washer plates (220 x 100 x 4, four 10mm holes) | 28 – M10 flat washers |
| 8 – M10 x 1.25 x 30 bolts | 18 – M10 spring washers |
| 4 – M10 x 1.25 x 35 bolts | 12 – M10 nuts |
| 8 – M10 x 1.25 x 60 bolts | 2 – 3/8 nuts |



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Figure 1: Rear of mount showing bolt direction.
Bumper support removed for photo.

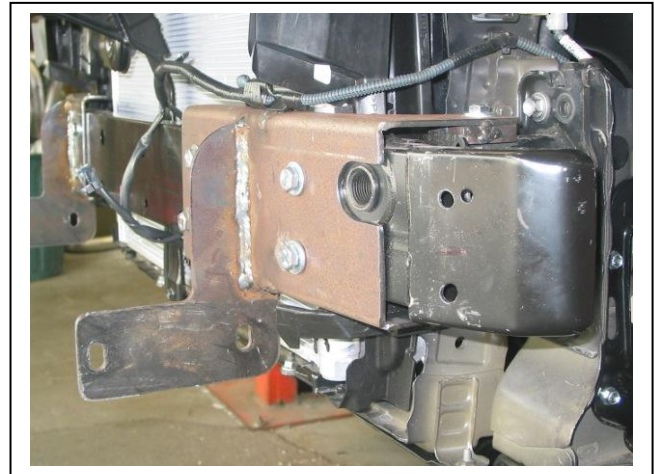


Figure 2: Steel mounting bracket fitted to bumper support - Passenger side shown

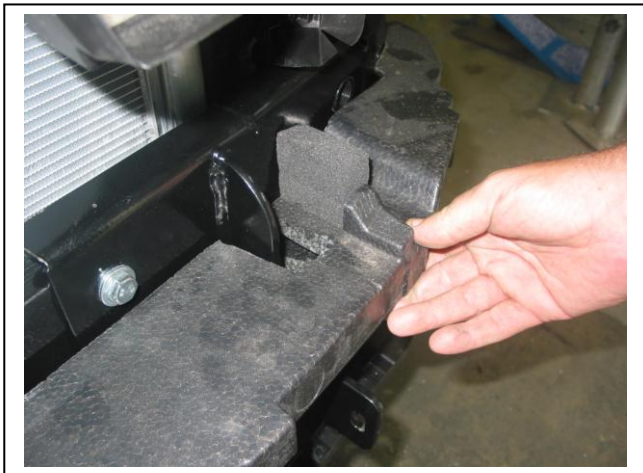


Figure 3: Trim polystyrene infill to fit around mount.



Figure 4: Refit plastic bumper



Figure 5: Type 8 front view



Figure 6: Type 8 side view



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Figure 7: Series 2 Nudge Bar front view



Figure 8: Series 2 Nudge Bar side view



Figure 9: 76mm Nudge Bar front view



Figure 10: 76mm Nudge Bar side view



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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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Fax to
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DESPATCH CHECKLIST 8T130SY, NB6T130SY, NBT130SY

| | | |
|--------------|--|--|
| Work Order # | | See other side off this page for photos of all mounts |
| Finish: | | |
| Transport: | | |
| Due Date: | | |

OC.....1 – Pair Steel mounting brackets.

OC.....2 – Steel washer plates (220 x 100 x 4, four 10mm holes)

BK.....1 – Bolt kit

All parts checked and completed by:

Nut and bolts: _____ Date __/__/__

Order control: _____ Date __/__/__

Final wrap check: _____ Date __/__/__



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Wrappers initials / Checkers initials