



**WORLD'S BEST
ALLOY BULLBARS**

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8HU46SY / NB6HU46SY / NBHU46SY / MHU46SY

REPLACES: 07.02.05
REVISED: 19.07.10

FITTING INSTRUCTIONS

11/01- HYUNDAI TERRACAN and 10/04- HIGHLANDER TYPE 8, MIDI TUBE, 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. Remove one plastic clip in centre top of bumper cover.
3. Remove indicators, one PK screw in top of headlight. Lift tab over headlight and pull straight out. **See figure 1.**
4. Remove four bolts securing each headlight, move headlight to side, locate one plastic clip under each headlight and remove. Place bolts back in headlight to hold in position. **See figure 2.**
5. Remove one 10mm nut (each side) from under indicator. **See figure 1.**
6. Remove one 10mm head bolt (each side) from top of bumper side returns.
7. Remove two 10mm head bolts, one PK plastic clip and one 10mm head self tapper (each side) from plastic inner guard and pull inner guard clear to access one 10mm head bolt and one 10mm nut (each side) on steel bracket for bumper cover side return. Disconnect O.E fog lights (if fitted).
8. Loosen only two 10mm head bolts on steel bracket side returns where it bolts to steel inner guard. **See figure 3.**
9. Remove two 10mm head bolts from lower central bumper cover. **NOTE:** For 10/04- Highlander models remove two 12mm head bolts located behind plastic cover. Pull plastic cover outwards to access. **See figure 4.**
10. Pull bumper cover side returns out from locators and slide bumper cover off vehicle.
11. Working on one side at a time, remove one 17mm head bolt and one 17mm nut from steel bumper cover support.
12. Place ½ flat washer over stud where 17mm nut was removed (**see figure 5**), then install ECB steel mounting bracket (supplied) to where bolt and nut were removed. Use original bolts and washers (supplied). **See figure 6, 7 and 8. TIGHTEN BOLT AND NUT EVENLY ENSURING STEEL MOUNTING BRACKET REMAINS SQUARE.**
13. Repeat for other side. Ensure steel mounting brackets are aligned with each other and are set at correct measurement for protection bar to be installed with protection bar brackets on outside of steel mounting brackets. **See figure 9.**
14. Place masking tape or similar around areas of bumper cover to slide over steel mounting brackets and reinstall bumper cover, headlight, indicators, etc. Reconnect OE fog lights (if fitted). **NOTE:** For Highlander models mesh grille is to be cut to allow protection bar steel mounts to protrude through. **See figure 10**
15. Install ECB protection bar to outside of steel mounting brackets. Use 3/8 x 1 ½ bolts, nuts and washers (supplied). **FINGER TIGHTEN ONLY.**



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16. Align protection bar with vehicle. **See figures 11, 13, 15 and 17 for side views and figures 12, 14, 16 and 18 for front views. TIGHTEN ALL BOLTS.** Ensure protection bar does not lay back too far as this will interfere with bonnet opening. **CHECK.**

NOTE: If fitting spotlights to 76mm Nudge Bar check depth of light for bonnet opening first. **See figure 19.**

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

2 – ECB steel mounting brackets.
4 – 3/8 x 1 1/2 bolts/nuts.
8 – 3/8 flat washers.
4 – 3/8 spring washers.
2 – 1/2 x 1 1/8 flat washers.

PK screw for Indicator



Figure 1 10mm Nut for bumper cover



Plastic Clip **Figure 2**



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Loosen one bolt and one nut Remove one bolt and one nut

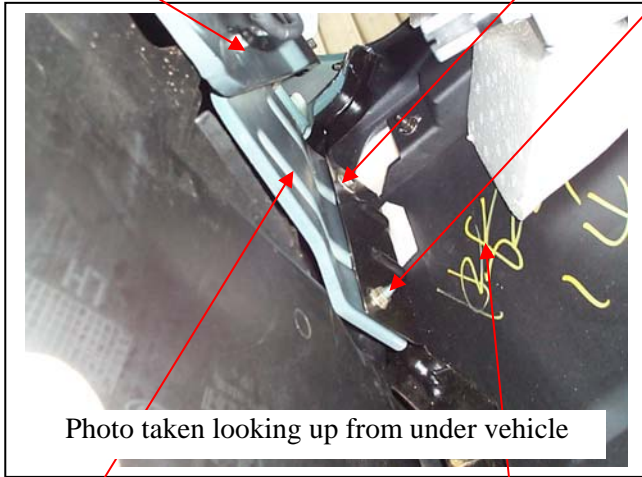


Photo taken looking up from under vehicle

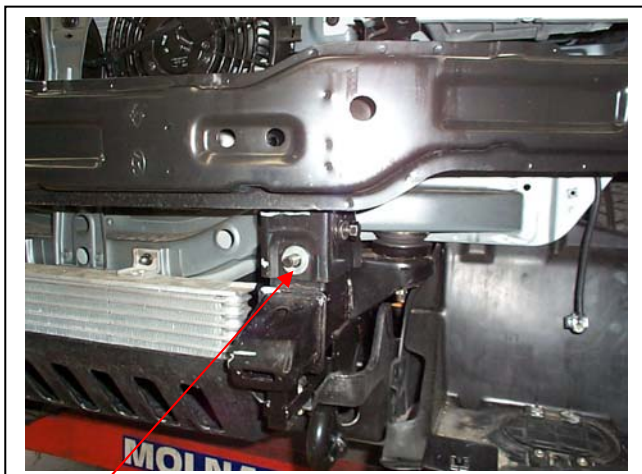
Steel bracket for bumper side return

Figure 3

Bumper cover side return



Figure 4



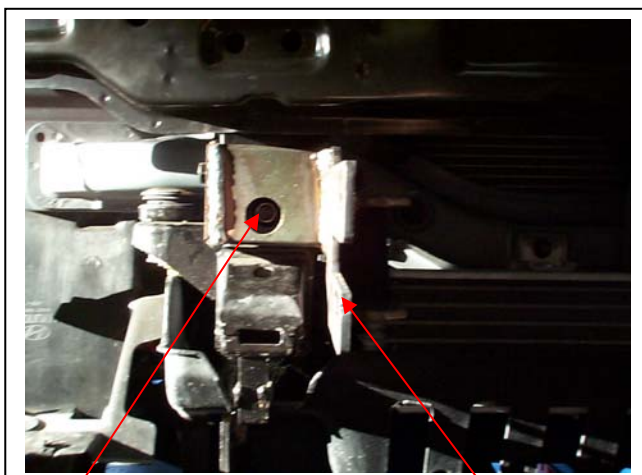
1/2 Flat washer

Figure 5



17mm Head bolt

Figure 6



17mm Hex Nut

Figure 7

Square to vertical

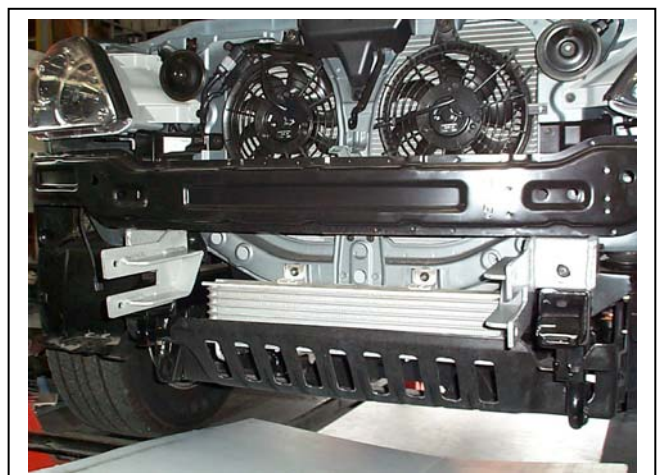


Figure 8



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Alloy protection bar mounts to outside

Figure 9



Cut mesh grille

Figure 10



Figure 11 – Type 8 side view shown



Figure 12 – Type 8 front view shown



Figure 13 – 63mm Series 2 Nudge Bar side view shown



Figure 14 – 63mm Series 2 Nudge Bar front view shown



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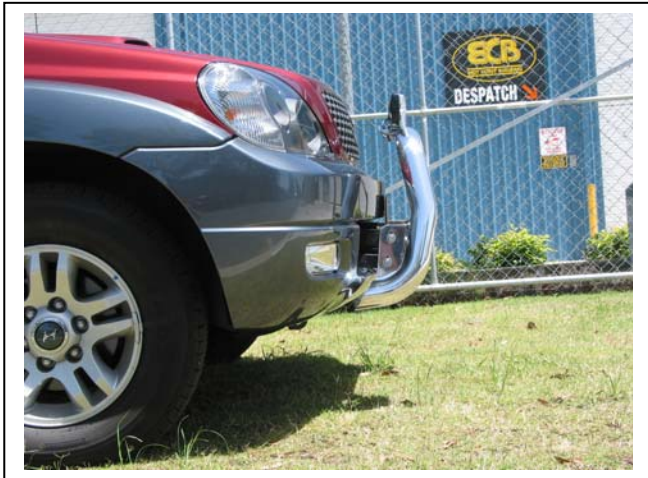


Figure 15 – 76mm Nudge Bar side view



Figure 16 – 76mm Nudge Bar front view



Figure 17 – Midi Tube side view shown



Figure 18 – Midi Tube front view shown

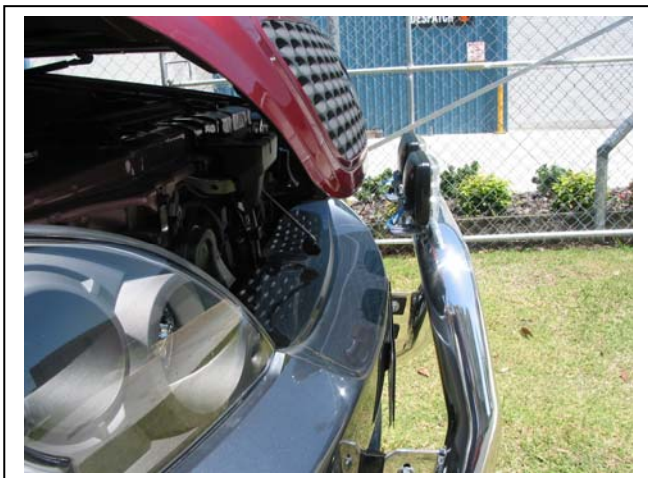


Figure 19 – Check bonnet opening



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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

Fax to
(07) 3283 1168



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DESPATCH CHECKLIST

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Work Order #	
Finish:	
Transport:	
Due Date:	

- 2 – ECB steel mounting brackets.
- 1 – Bolt kit.

**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 __/__/__



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