



**WORLD'S BEST
ALLOY BULLBARS**

East Coast Bullbars (ECB Pty Ltd)

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BMA35SY

REPLACES: 12.02.10

REVISED: 09.07.10

FITTING INSTRUCTIONS

MAZDA BRAVO 11/02- 1/07 2/4WD PETROL / TURBO DIESEL BIG TUBE™ BAR VEHICLE FRONTAL PROTECTION SYSTEM (VFPS) FOR AIR BAG & ADR COMPLIANT VEHICLES

Check installation hardware before commencing.

1. Lift bonnet.
2. Remove bumper bar from vehicle. Remove lower brace (two 10mm head bolts each side). Remove one 17mm head bolt (each side) at the front of chassis, access through front of bumper and one 17mm head bolt (each side) at top front of chassis (long extension bar and socket required).
3. Remove ECB air vents from protection bar (Allows access for bolts/nuts/tools for turbo diesel models).
4. Remove ECB indicator / park lights from protection bar if fitted (Allows access/viewing for impact wrench).
5. Remove three PK screws per indicator pull indicator out far enough to access indicator wiring. **See figure 1.** Splice indicator / park light wiring into vehicle wiring loome and pass wire down behind grille. Refit indicator.
6. Remove passenger's side tow hook/tie down bracket.
7. Remove driver's side tie down bracket and discard. (Discard on 4X4 models only)
8. Grind off tie down bracket weld on drivers side tow hook and separate tow hook from tie down bracket. **See figure 2.** (4X4 models only)
9. Paint bare metal areas on tow hook and tie down bracket. (4X4 models only)
10. Attach ECB 90mm steel angle bracket (supplied) in between chassis and tow hook on passenger side (web of angle toward centre of vehicle). Use original bolts. **FINGER TIGHTEN ONLY. See figure 3.**
11. Reattach passenger side tie down bracket to drivers' side over ECB 90mm steel angle bracket on drivers' side. Use original bolts (web of angle towards centre of vehicle). **FINGER TIGHTEN ONLY. See figure 4.**
12. **NOTE:** For 2WD models refit drivers side tie down bracket to passenger side.
13. Attach protection bar steel mounting brackets (supplied) to chassis where bumper brackets were removed. Use original bolts. Align with vehicle, checking that brackets are centred and that space in between mounts is sufficient for protection bar to slide in on inside. **TIGHTEN IN POSITION. See figures 5 and 6.**
14. Fit turbo cooler guard to vehicle. Use 3/8 nuts/washers on 200mm wire (supplied) to access 3/8 x 1¼ bolts and washers (supplied). **See figure 7.** Fit as high as possible without contacting cooler. **TIGHTEN** drivers' side fully; leave passenger side **LOOSE** so guard can be aligned with protection bar once fitted. Angle back slightly so water will run off guard. **See figure 8.**
15. Attach 6mm black clip lock trim (supplied) to rear of protection bar. **NOTE:** Trim off lower edge on an angle so trim will sit flush with end of protection bar. **See figures 9, 10 and 11.**



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16. Attach protection bar to inside of steel mounting brackets. Use ½ x 1 ¾ bolts, nuts and washers (supplied). **DO NOT TIGHTEN.**
17. **ALIGN PROTECTION BAR WITH VEHICLE.** Approximately 12-18mm clearance under guards when viewed from side is desirable position. **See figure 12.**
18. **TIGHTEN** all ½ x 1 ¾ bolts/nuts.
19. Attach steel mount supports to 90mm steel angle brackets and slot holes in steel protection bar mounting bracket. Gusset on steel mount supports faces outward. Use eight 3/8 x 1 ¼ bolts and nuts (supplied). **See figures 13 and 14.**
20. **TIGHTEN ALL REMAINING BOLTS AND NUTS.**
21. 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.**
22. Reattach ECB air vents.
NOTE: For Turbo Diesel models centre two air vents and driver's side two air vents are to be fitted with ECB logo at bottom to direct air onto turbo cooler. The two air vents on passenger side are to be fitted with ECB logo at the top. For Petrol engine models ECB logo goes at the top for all air vents.
23. Align cooler guard with protection bar and **TIGHTEN** passenger side 3/8 x 1 ¼ bolt.

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

2 – 90mm steel angle brackets.	8 – 3/8 nuts.
2 – Steel mounting brackets.	2 – 3/8 nuts/washers on 200mm wire
2 – Steel mount supports.	18 – 3/8 flat washers.
1 – Alloy protection guard.	10 – 3/8 spring washers.
6 – ½ x 1 ¾ bolts and nuts.	1 – ECB LED Indicator / Park light kit
12 – ½ flat washers.	6 – Cable locks.
6 – ½ spring washers.	1 – 2350mm length 6mm black clip lock trim.
10 – 3/8 x 1 ¼ bolts.	



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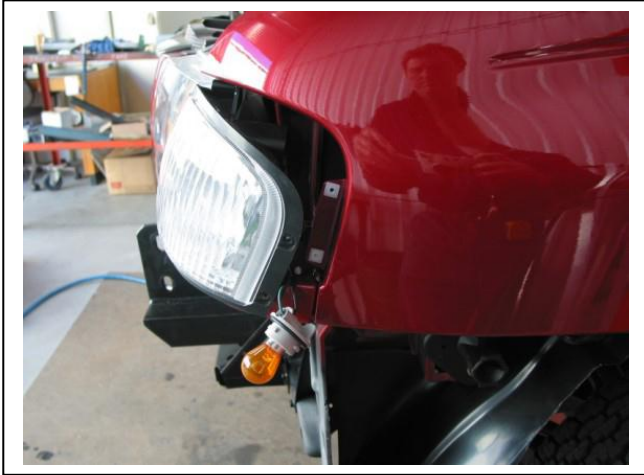


Figure 1



Figure 2



Figure 3 – Passenger side shown



Figure 4 - Drivers side shown

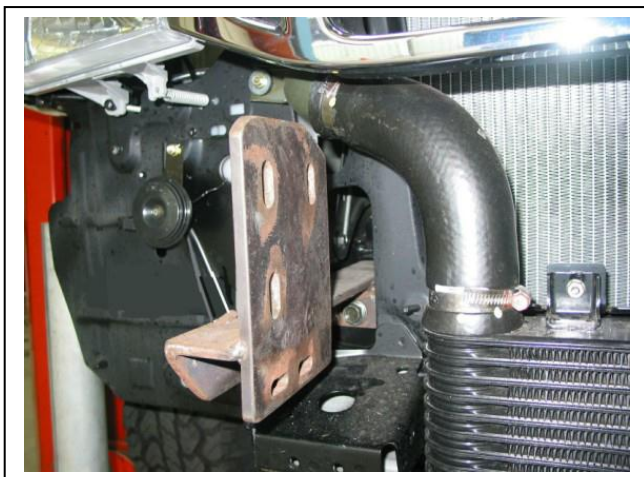


Figure 5 – Drivers side shown



Figure 6 – Passenger side shown



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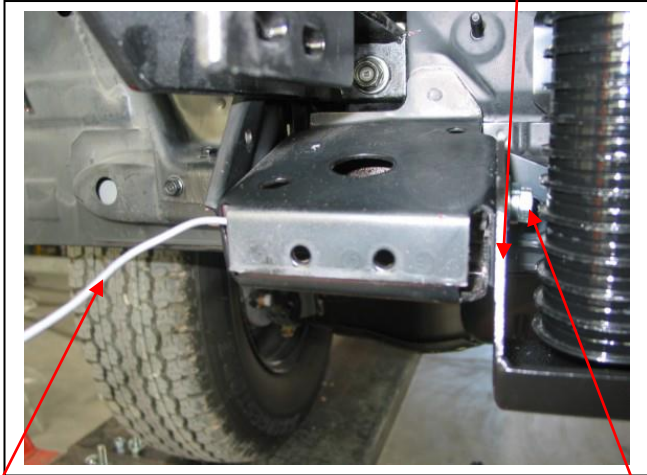
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Alloy cooler guard



Nut washer
on wire

Figure 7 – Passenger side shown

3/8 x 1 1/4 bolt

Alloy cooler guard

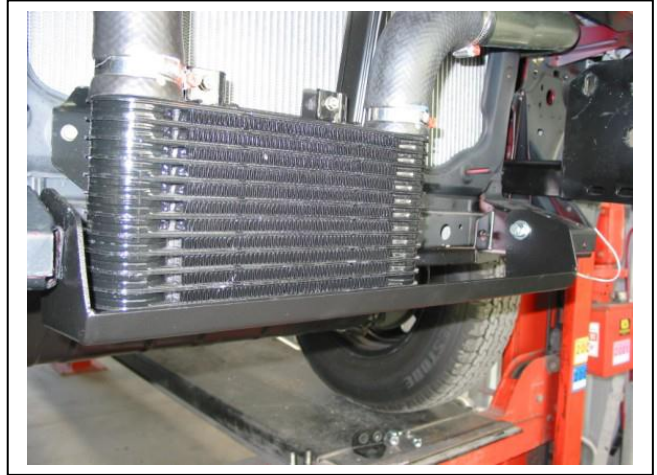
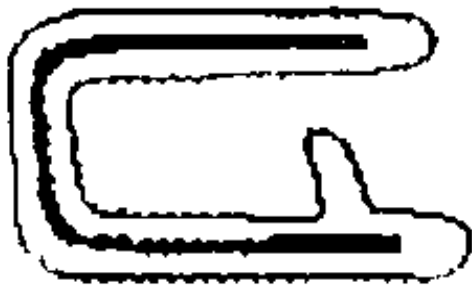


Figure 8

Top



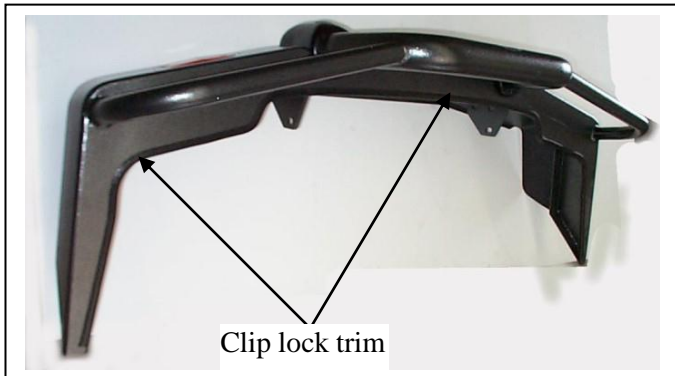
6mm Black clip lock trim

Figure 9



Trim lower
edge on an
angle

Figure 10



Clip lock trim

Figure 11



Figure 12 – Approx 12mm –18mm clearance



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Figure 13 – Passenger side shown from inside
(shown without cooler guard fitted for clearer view)



Figure 14 – Drivers side shown from outside



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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
(07) 3283 1168



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DESPATCH CHECKLIST BMA35SY

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

- 2 – 90mm steel angle brackets.
- 2 – Steel mounting brackets.
- 2 – Steel mount supports.
- 1 – Alloy protection guard.
- 1 – Bolt kit.
- 1 – ECB LED Indicator / Park light kit.
- 1 – 2350mm length 6mm black clip lock trim
- 2 – ECB overrides – **Fitted to Bar**
- 6 – 3mm air scoops – **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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