



WORLD'S BEST
ALLOY BULLBARS

East Coast Bullbars (ECB Pty Ltd)

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8M39SY / NB6M39SY / NBM39SY

REPLACES: 31.08.06
REVISED: 03.07.10

FITTING INSTRUCTIONS

MITSUBISHI ZG OUTLANDER 10/06 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. Remove grille; four plastic clips and pull grille firmly upward to release three lower clips.
3. Remove under body guard; six plastic clips and five 10mm head bolts from under body guard to rear of bumper, eleven plastic clips from guard to sub-frames and inner splash guards.
4. Remove bumper cover; two 10mm head bolts from area below grille, disconnect light wiring from under lock, **see figure 1**, two plastic screws clips from front of wheel arch (per side), two plastic clips where under body guard was removed, one plastic clip from top rear of wing (one per side) and one 10mm head bolt in front of grille under number plate mounts. Unclip sides of bumper by pulling outward away from vehicle.
5. Remove radiator hose mount one 12mm head bolt and three 12mm head bolts from oil cooler mount from passenger side lower chassis rail. **See figure 2.** Straighten kink in mount using a hammer. **See figure 3.**
6. Slide ECB steel mounting bracket (supplied) between chassis and radiator hose. Remount radiator hose through centre of lower hole in steel mounting bracket using two ½" round alloy washers (supplied) between mount and radiator hose bracket and one M8 x 1.25 x 55mm bolt, flat and spring washer (supplied). **CAUTION: Radiator hose must not contact mount. Ensure a minimum 8mm gap.**
7. Use a die grinder or similar to open out large hole above mount to allow fitment of 3/8 x 1 ½ bolts on wire. **Blow all fillings clear and treat all exposed metal with a rust inhibitor. See figure 4.**
8. Align front edge of mount with front of chassis rail. Using centre of slot as a guide drill top holes using a 10mm drill. **Blow all fillings clear and treat all exposed metal with a rust inhibitor.** Feed two 3/8 x 1 ½ bolts and washers on 300mm wire (supplied) into drilled 10mm hole. Secure with 3/8 nuts, flat and spring washers (supplied). Refit oil cooler bracket using original bolts on cooler end and one M8 x 1.25 x 55mm bolt, flat and spring washers (supplied).
9. Remove washer bottle from driver's side chassis rail, three 12mm head bolts and disconnect washer motor and tube work. Plug tube work to retain fluid.
10. Attach ECB steel mounting brackets to chassis using one M8 x 1.45 x 45mm bolt, flat and spring washer and 40 x 6mm alloy washer (between steel mount and chassis rail) (supplied) through lower slot centre and into lower hole on chassis rail.
11. Align chassis mounts on vehicle. **TIGHTEN ALL BOLTS.**
12. Use a die grinder to open out large hole in underside of driver's side chassis rail, **see figure 5**, to allow fitment of 3/8 x 1 ½ bolts on wire. **Blow all fillings clear and treat all exposed metal with a rust inhibitor.**



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13. Using centre of slot as a guide drill top holes using a 10mm drill. **Blow all fillings clear and treat all exposed metal with a rust inhibitor.** Feed 3/8 x 1 1/2 bolt and washer on 300mm wire (supplied) through hole in underside of chassis into front drilled hole. Secure using 3/8 nut, flat and spring washer (supplied). Feed 3/8 nut and washer on 300mm wire into chassis rail and secure through rear drilled hole using 3/8 x 1 1/2 bolt, flat and spring washer (supplied). **CHECK ALIGNMENT AND TIGHTEN ALL BOLTS.**
14. Refit washer bottle to chassis rail using original rear bolt and one 30 x 6mm alloy washer (supplied) between original front mounting hole in chassis rail and washer bottle and one M8 x 1.25 x 55mm bolt, flat and spring washer (supplied). Use a die grinder or similar, enlarge top hole in plastic to allow access to original mounting position. Refit original bolt. **See figure 6.**
15. Trim all excess wire from interest bolts to 50mm from holes. Crimp tight around chassis to avoid rattling.
16. Refit bumper cover as per reverse steps 2-4. Do not refit under body guard at this stage.
17. Position ECB protection bar on inside of steel mounting brackets. **See figure 7.** Attach with two 3/8 x 1 1/2 bolts, flat and spring washers and nuts (supplied) into rear holes. Swing protection bar into position and insert two 3/8 x 1 1/2 bolts, flat and spring washers (supplied) into front holes and secure using two 3/8 nuts and washers on 300mm wire (supplied).
18. Align protection bar with vehicle. **See figures 8, 10 and 12** for front holes and **figure 9, 11 and 13** for rear holes.
19. **TIGHTEN ALL BOLTS.**
20. Trim wire off inserted bolt to 50mm past end of tube.
21. Using a sharp knife, trim under body guard to suit mounts and tubes. **See figure 14. NOTE:** Measurements are according to the test vehicle only. Trim according to your vehicle fitment.
22. Refit under body guard as per reverse step 3.

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



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FITTING KIT

| | |
|---|--|
| 1 – Passenger side steel mounting bracket. | 4 – 8mm spring washers. |
| 1 – Driver’s side steel mounting bracket. | 4 – 8mm flat washers. |
| 1 – 30 x 6mm alloy washer with 10mm hole in centre. | 3 – 3/8 x 1 ½ bolts and washers on 300mm wire. |
| 1 – 40 x 6mm alloy washer with 10mm hole in centre. | 3 – 3/8 nuts and washers on 300mm wire. |
| 2 – 40 x 6mm alloy washer with 10mm hole in centre. | 5 – 3/8 x 1 ½ bolts and nuts. |
| 2 – M8 x 1.25 x 45mm bolts. | 8 – 3/8 flat washers. |
| 2 – M8 x 1.25 x 55mm bolts. | 8 – 3/8 spring washers. |



Figure 1 Light wiring connection

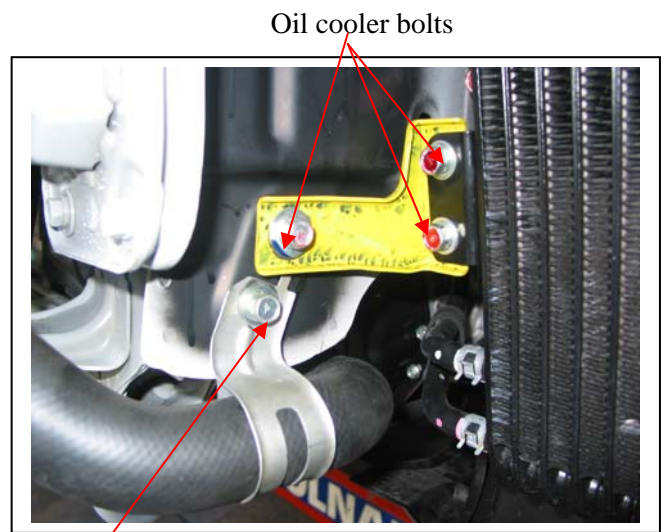


Figure 2 Radiator hose bolt Oil cooler bolts



Figure 3

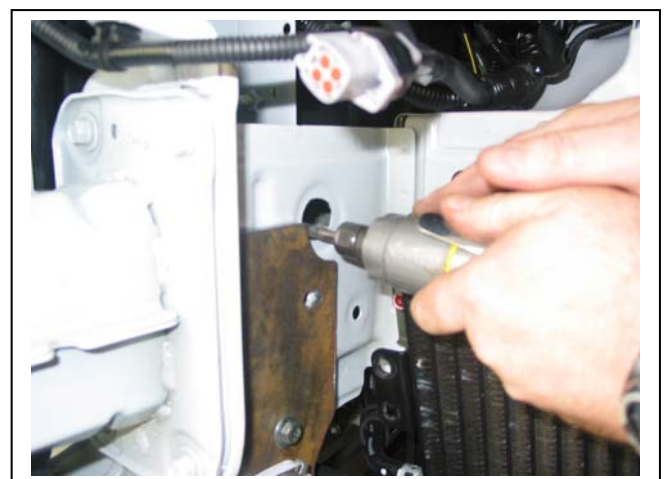


Figure 4 – Passenger side shown



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Figure 5 – Underside of driver's side chassis rail

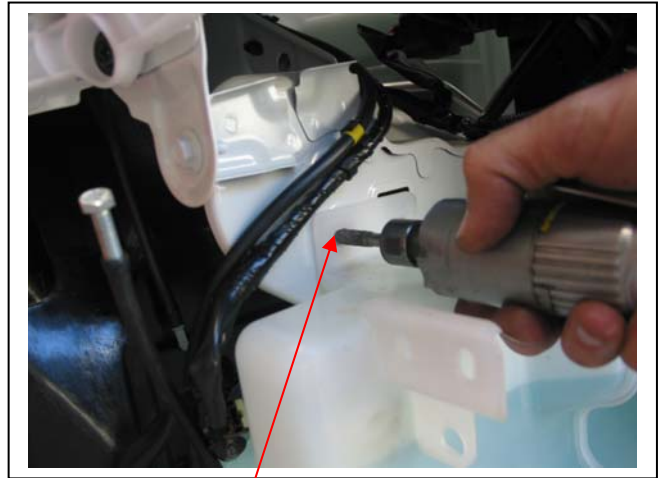


Figure 6 Enlarging hole in washer bottle with die grinder



Figure 7



Figure 8 – Type 8 front view shown



Figure 9 – Type 8 side view shown



Figure 10 – 63mm Series 2 Nudge Bar front view shown



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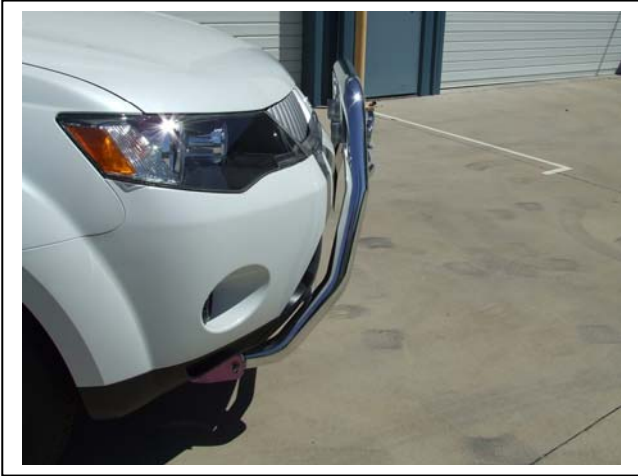


Figure 11 – 63mm Series 2 Nudge Bar side view shown



Figure 12 – 76mm Nudge Bar front view shown

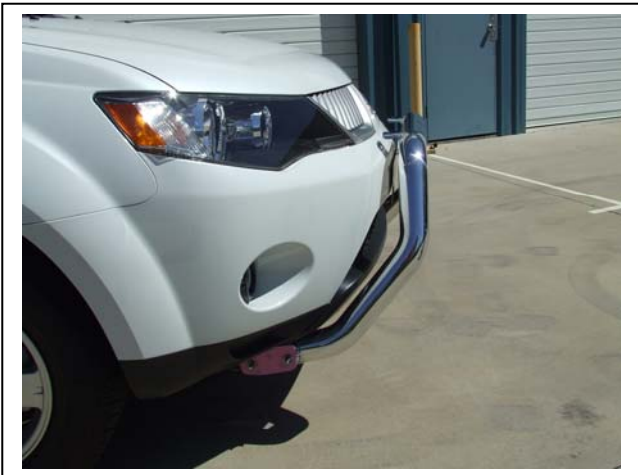


Figure 13 – 76mm Nudge Bar front view shown



Figure 14



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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 8M39SY / NB6M39SY / NBM39SY

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

- 1 – Passenger side steel mounting bracket.
- 1 – Driver's side steel mounting bracket.
- 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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