



**WORLD'S BEST
ALLOY BULLBARS**

**Strongest Built
Australian Made
Lifetime Warranty**

PN: BM250SY



Fitting Guide & Owners Manual

**Mitsubishi Express
03/2020 on**

Big Tube Protection Bar with bumper lights
VEHICLE FRONTAL PROTECTION SYSTEM (VFPS)
FOR AIR BAG & ADR COMPLIANT VEHICLES



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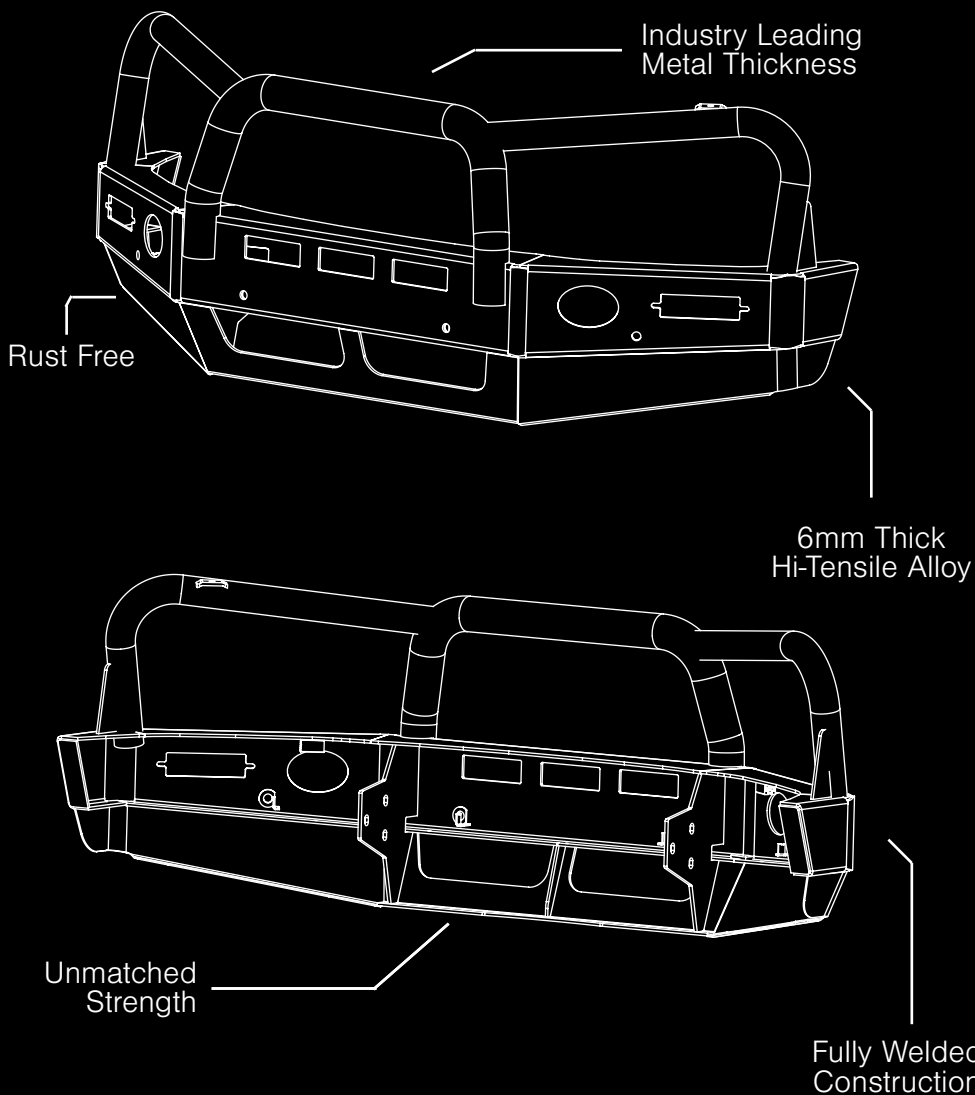
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The Features of ECB



ECB's Benefits

Built to Perform - Not to a Price

ECB are proud to claim that their channels are not jigsaw puzzles that are bolted together, or even multiple sections welded together. Where any welding is required, it is done to the highest standards by qualified welders, not machines.

Anti-Corrosive Nature of Alloy

The composition of ECB's alloy has a very high resistance to corrosion. Rust not only looks unappealing but greatly reduces the strength of the metal. Rust can and will weaken the structural integrity of a steel bullbar effectively rendering it useless over time.

Australian Made

Established in 1971, we utilise decades of experience designing, engineering and building products in Australia to suit Australian conditions. We can ensure the best quality controls and help support the local economy and employ over 90 proud Australians.

Weight Saving Benefits

An ECB alloy bullbar is typically half the weight of a steel bullbar. Unnecessary suspension upgrades are not required. The reduced weight also contributes to increased fuel economy and less wear and tear on tyres, suspension and braking components.

Welds That Work

ECB uses only the strongest welds and welding techniques to ensure every product is as structurally sound as possible. MIG (Metal Inert Gas) welding techniques are employed ensuring the welds are as thick as the thickest section of alloy's being joined together.

Lifetime Warranty

ECB provide a lifetime warranty and consumer guarantee on all of our manufactured products. This guarantee highlights the confidence in our ability and provides complete peace of mind for your purchase for the lifetime you own your vehicle.

Product Care

Polished Products

Being a premium mirror polished finish, regular maintenance will be required to keep that iconic ECB shine. We recommend using our own brand of Aluminium Polish. This formula has been tried and tested and in our opinion is the world's best standard.

Directions: Apply a small quantity of Aluminium Polish to a clean soft cloth and rub the metal surface. The longer the rubbing the brighter the surface becomes. Wipe off Aluminium Polish with clean soft cloth. Also suitable for motorised buffing machines. **Note: There are more specific details on the polish bottle. Please read before use.**

Powdercoated Products

Our powdercoated finishes are very low maintenance. Infact there is actually very little you will ever need to do for this product. Just clean it as you would your car and it will stay looking good as new.

ECB Aluminium Polish

When you're looking for that showroom finish look for your polished automotive products, you can depend on the no compromise quality of East Coast Bullbars Aluminium Polish. This specifically designed product is the best polish available and we guarantee that this \$#!+ works. With over 40 years of manufacturing polished alloy products we have trialled a large range of different polishes on the market and believe without a doubt that nothing beats the finish quality of East Coast Bullbars Aluminium Polish.

East Coast Bullbars Aluminium Polish is excellent for use by hand and is ideal for polished bullbars, nudge bar and stainless steel products. This polish will clean, polish and protect your product from the elements whilst bringing your products back to that showroom finish look.



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Stage 1

- Test drive vehicle to ensure all driver assists are correctly working and to gauge effectiveness. Park on a flat level surface.
- Apply parking brake and lift bonnet.
- Unwrap ECB Protection bar and disconnect mounts. Discard bolts.



Stage 2

- Lift the bonnet, remove four (4) 10mm head bolts from the top of grille. Unclip safety catch cable from bonnet safety catch. To remove the grille, lift upwards to release lower clips and remove.

Caution: Do not close bonnet with safety catch disconnected and grille in place. Bonnet safety catch is not accessible.



Stage 3

- Remove one (1) 10mm head bolt from each side of the bumper in grille opening. Remove two (2) T15 torx head screws from wheel arch (per side). Remove three (3) screws from under the lower edge of bumper.
- Unplug fog light harness from passenger side near headlight.
- Pull out on rear wing to unclip bumper from guard locator and remove bumper.



Fog light harness plug

Stage 4

- Remove headlights from vehicle, three (3) 10mm head bolts.

NOTE: To undo wiring harness you will need to slide a small flat blade screwdriver under the locking tab, then gently pull to remove.

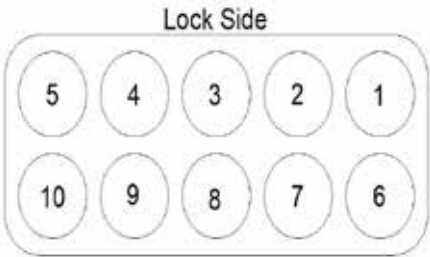


Stage 5

- Splice ECB wiring harness into wiring harness behind headlight using cable locks (supplied). Ensure harness is clear of sharp edges and moving parts. Use cable ties (supplied).

NOTE: Colour on wiring is for right hand side of vehicle.(vehicle side of harness)

Pin Number	Colour	Use
1	Black	Ground
6	White	DRL
7	Green	Indicator Light
8	Brown	Parking Light



Stage 6

- Check ECB lights for correct operation.
- Connect and reinstall lights into vehicle.
- Connect ECB bumper light harness (supplied) to bumper light wiring.



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Stage 7

- Unclip intercooler air shoot from radiator.
- Remove two T27 torx head screws and unclip bumper stiffener from bumper support.



Stage 8

- Remove bumper support, seven (7) 16mm head bolts from chassis rail end and one (1) 13mm head bolt from top center of reinforcement.
- Remove one (1) 13mm head bolt from horn bracket.



Stage 9

- Using ECB template as a guide mark and drill a 10mm hole in chassis rail end.

Blow filings clear and treat all exposed metal with a rust inhibitor.



Stage 10

- Fit ECB steel mounting bracket (supplied) onto chassis rail end using original bolts.
- Fit one (1) M10 x 1.5 x 35mm bolt on wire, flat washer, spring washer and nut (supplied)(per side) into previously drilled hole.
- Install horn to outer top of ECB steel mounting bracket using original bolt.
- Fit centre radiator support to top of steel mounting bracket using original bolt.



Stage 11

- Mark and trim bumper stiffener to fit over steel mounting bracket and refit using original equipment.



Stage 12

- Refit intercooler air shoot.



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Stage 13

- Using bumper cut template (supplied) as a guide mark and cut bumper to fit over steel mounting bracket.
- Mark and cut outer section of lower grille to allow access to tie down point.
- Remove original equipment lights from rear of bumper



Stage 14

- Refit bumper and grille to vehicle in the reverse of step 2 and 3.
- Pull light wiring through fog light hole in bumper



Stage 15

- Fit ECB LED indicator / park lights into protection bar as per instructions supplied with the LED indicator kit.
NOTE: Ensure park light is to top.



Stage 16

- Attach 6mm clip lock trim (supplied) to top of ECB protection bar. **NOTE:** Trim off lower edge on an angle so trim will sit flush with end of protection bar.



Stage 17

- Fit protection bar onto steel mounting brackets using M12 x 1.75 x 40mm bolts, flat washers, spring washers and nuts (supplied).
- Align protection bar with front of vehicle and tighten all bolts.

NOTE: Protection bar is tightened through the bumper light openings.



Stage 18

- Attach ECB bumper lights to protection bar. Place M6 x 20 bolts, spring washers (supplied) through light mount from inside and attach nut to top. Slide assembly into light mount in Protection bar and centralise light to hole. **TIGHTEN FIRM ONLY.**
- Install bumper light surrounds (supplied) to bumper light openings and tow point access openings. Large side of surround to inside of opening on bumper light and to round side on tow point access openings.



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Stage 19

- Connect and check lights.
- Road test vehicle to ensure all safety equipment is working as per previously completed test.

Final Checks

Ensure Number Plate is Clearly Visible

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

1. Do not attach VFPS to the vehicle using anchorages not intended for this purpose (e.g. engine mounting bolts).
2. Do not use this product for any vehicle make or model, other than those specified by the VFPS manufacturer.
3. Do not remove the plaque or label from the VFPS.
4. Do not modify the structure of the VFPS in any way.
5. No accessory or fitment should project forward of the VFPS forward profile.
6. **Ensure these instructions are left with the vehicle owner and/or operator.**

Important Information

Periodically check bolts and nuts for correct tightness, especially if traveling on rough roads.

Installation Kit

1 - Steel mounting bracket	2 - M6 spring washers
6 - M12 x 1.75 x 40mm bolts	2 - M6 nuts
12 - M12 Flat washers	1 - Indicator / DRL / light kit
6 - M12 Spring washers	8 - Cable locks
6 - M12 x 1.75 Nuts	1 - Bumper light kit
2 - M10 x 1.5 x 35mm bolt, washer on 300mm wire	1 - Quick click harness (IC10D40S1004ECBH)
2 - M10 Flat washer	4 - Bumper light surrounds
2 - M10 Spring washer	1 - 2300mm length 6mm clip lock trim
2 - M10 x 1.5 Nut	4 - 150mm cable ties
2 - M6 x 20mm bolts	

Finished Product



Warranty Registration

Contact Details

Name: _____

Address: _____

Product: **BM250SY** _____

Email: _____

Phone: _____

Work Order Number: _____

You can find this on the silver label
of your ECB product.

By submitting this registration you automatically subscribe to ECB's mail outs. You
can unsubscribe at any time.

Please Post To:

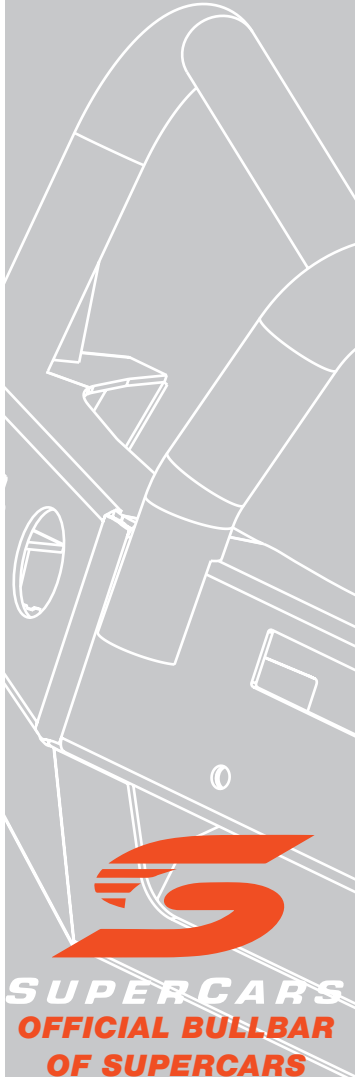
ECB, PO Box 122, Margate, QLD, 4019

Or Register Online

For online registration please go online to www.ecb.com.au/warranty-registration.
If you have any questions please contact our national office on 1800 069 145 or
www.ecb.com.au.



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Strongest Built Australian Made Lifetime Warranty

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