



**WORLD'S BEST
ALLOY BULLBARS**

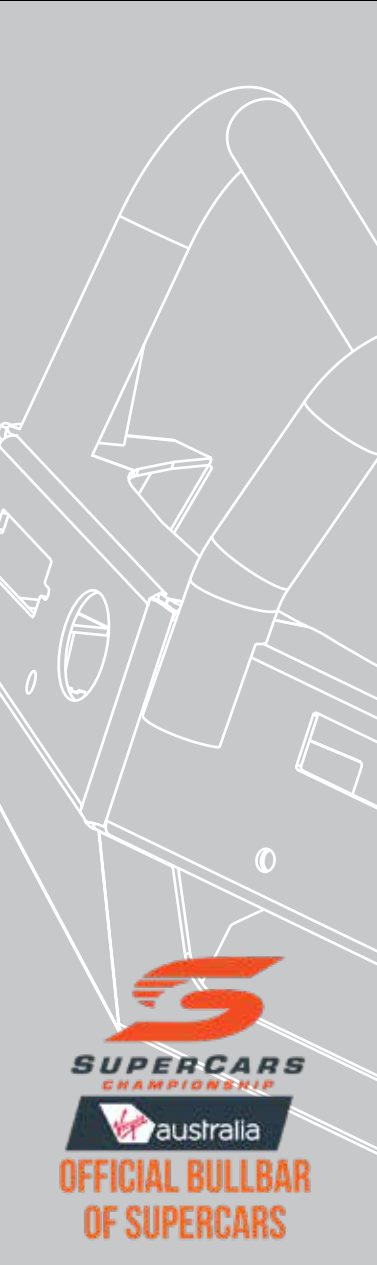
**Strongest Built
Australian Made
Lifetime Warranty**

PN:BM34SY



**Fitting Guide &
Owners Manual
Mitsubishi Outlander
MY18.5, 10-2017 ON**

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



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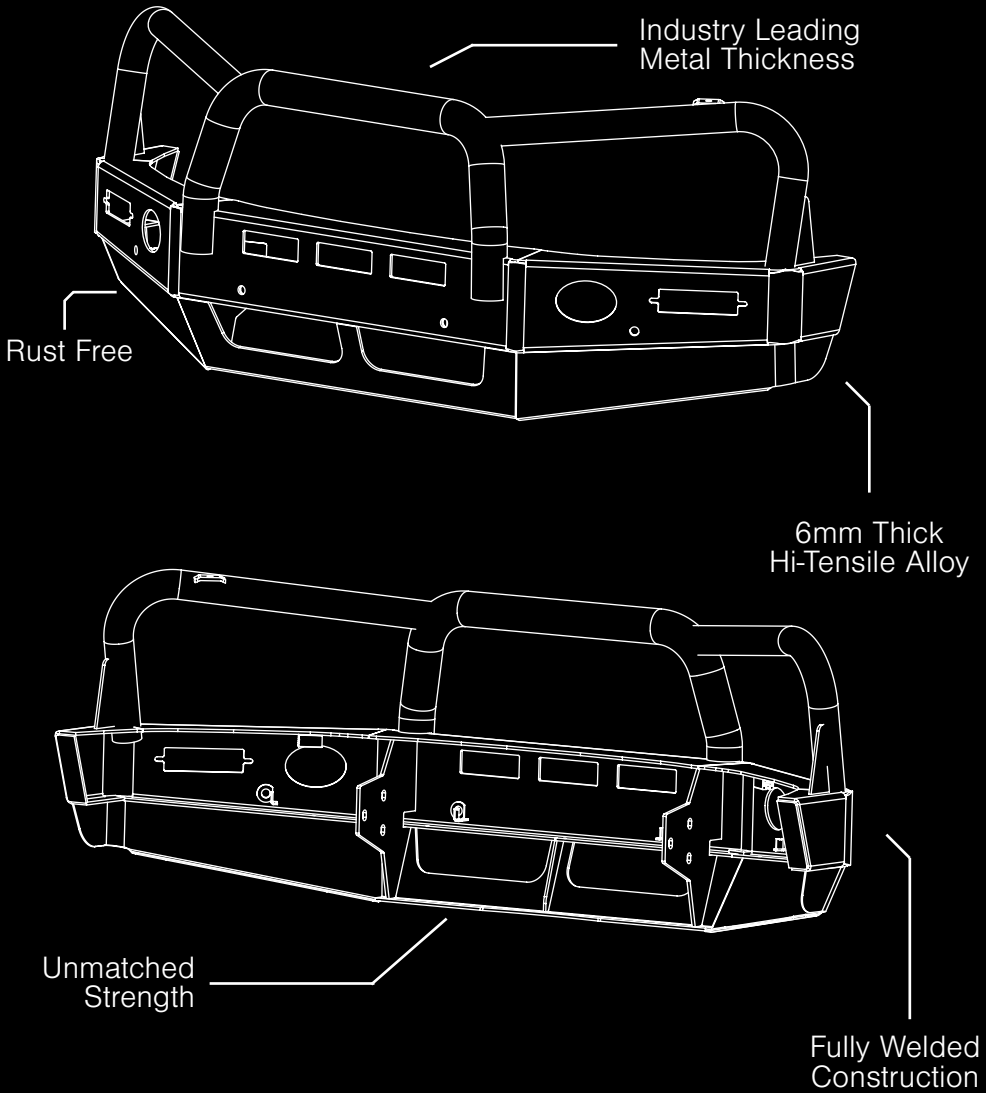
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The Features of ECB



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 over 46 years 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.**

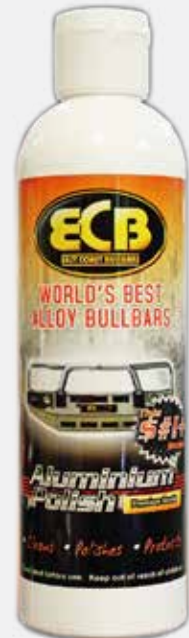
Powdercoated Products

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.



BEFORE STAGE 1 Please:

Stage 2

- Remove trim from top of radiator support, (12) twelve plastic push pull clips



Stage 3

- From outer edge of grill, remove (2) two plastic push pull clips, pull firmly on grill to release three clips.
- Remove grill.

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Stage 4

- Remove(1) one 10 mm head bolt from wheel arch flare per side.
- Remove flare.
- Remove (2) two black push pull clips from wheel arch (per side) and one push pull clip from rear wing to guard per side .
- From top of bumper between headlights remove (5) five plastic push pull clips and (3) three 10 mm head bolts. From underside of bumper remove (6) six push pull clips and (6) six hex clips .Remove from front of bumper lower grille (2)two 10 mm head bolts.



Stage 5

- Unplug fog light /sensor and camera harness from drivers side of bumper reinforcement.
- Unclip headlight washer hose from bumper.
- Carefully pull out on rear of wing to unclip bumper from guard and then forward from headlight to remove.

Stage 6

- From under vehicle, remove under body guard from vehicle, (6) six plastic push pull clips and (4) four 10mm headbolts .

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Stage 7

- Remove top and lower air dams.
- Remove plastic cover under bonnet release, (2) two push pull clips

Stage 8

- Disconnet temperature sensor from mount.
- Remove tranmission cooler from bumper support, (2) two 12mm head bolts at base, (1) one at top on bonnet release bracket. Retain top bolt and nut for refittment.
- Disconnet sonar from harness,remove (2)two 12mm head bolts from bumper support and (1) one 12mm bolt from top of sonar carefully remove unit .

Stage 9

- Remove bumper support rail,(4) four 12mm headbolts (per side).



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Stage 10

- Install ECB steel mount to vehicle using (8) eight M8 x 30 bolts, spring washers and flat washers.
- Align mount to vehicle. Tighten all bolts.
- Secure transmission cooler to ECB steel mount using upper and lower mounting brackets (supplied) and M8 x 30 bolts, Flat washers, spring washers and nuts
- Refit temperature sensor to underside of mount .



Stage 11

- Remove Parking sensors, parking sensor housings and harness from bumper.
- Unclip headlight washer hosing and move to top of bumper



Stage 12

- Mask area of bumper to be cut.
- Measure templates to ensure correct sizing. As printers and printer settings vary, templates may be out of scale.
- Using template provided mark bumper
- Re-check marking to ensure correct.
- Cut bumper using a jigsaw or similar.



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Stage 13

- Using (4) four 300mm x.5 lengths of wire and solder joiners (supplied), extend wiring harness for sonar. Tape and fit wiring inside split loom tubing (supplied) to give some protection.
- Remove sonar from mounting bracket, retain nuts for refitting



Stage 14

- Splice ECB wiring harness into wiring harness behind headlight using cable locks (supplied). Ensure harness is clear of sharp edges and moving parts.
- Connect ECB Quick Click fog light wiring harness (supplied) into original wiring harness.

Stage 15

- Reinstall bumper onto vehicle in reverse of stages 2 to 6.



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Stage 16

- Install parking sensors housings from front of Protection bar and parking sensors from rear.
- Attach parking sensor harness into rear of protection bar using cable ties (supplied)
- Mount sonar onto steel bracket (supplied) ,with plastic protection cover placed in front of sonar. Secure cover using M6 x20mm bolts, flat washers and nyloc nuts (supplied). Fasten sonar to inside of protection bar on left hand side using M6 x 20 bolts, flat washers and nyloc nuts.
- Fit camera to mounting bracket (supplied) and mount to bracket inside channel using M5 x 12 bolts, Flat washers and nyloc nuts (supplied).



Stage 17

- Attach fog lights to protection bar. Use M6 x 20 bolts, spring washers and nyloc nuts (supplied).
- Fit ECB LED indicator/park/DRL into protection bar as per instructions supplied.
- Attach 6mm clip lock trim supplied to top of protection bar. NOTE: Cut off lower edge on an angle so trim will sit flush with end of protection bar.



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Stage 18

- Disconnect wiring harness for camera and sensors from bonnet latch support. Feed wiring harness through center grill.
- Run wiring harness for sonar through bumper beside ECB steel mount.



Stage 19

- Fit protection bar onto steel mounts using M12 x 40 bolts, flat washers, spring washes and nuts (per side) (supplied).
- Align protection bar to front of vehicle and tighten bolts.

Stage 20

- Connect indicator and fog lights and check for correct operation.
- Test drive vehicle to ensure parking sensors and driver aids and working correctly.



Final Checks & Fitting Kit

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

Fitting Kit

1 - ECB steel mount	2 - M6 spring washer
1 - ECB steel upper oil cooler mount (BM-34SY_C4MS)	5 - M6 nyloc nuts
1 - ECB steel lower oil cooler mount (NBM-34SY_A6MS)	2 - M6 nuts
1 - ECB sonar bracket (BM34SY_S4MS)	2 - M5 x 12 bolts
1 - ECB Alloy camera mount (BM34SY_A2AL)	4 - M5 flat washers
1 - clear Plastic cover (NBF160SY_A2PL)	2 - M5 nyloc nuts
6 - M12 x 1.75 x 40 bolts	1 - Indi / park kit (ICLED105ECB)
12 - M12 flat washers	8 - Cable locks
6 - M12 spring washers	1 - Fog light kit
6 - M12 nuts	1 - Quick click kit (IC10D40S1004EC-BH)
12 - M8 x 30 bolts	2 - Fog light surrounds
16 - M8 flat washers	1 - 2300mm length 6mm clip lock trim
12 - M8 spring washers	4 - 300mm length 3mm single core wire
4 - M8 nuts	8 - solder joiners
7 - M6 x 20 bolts	1 - 400mm length 10mm split loom tubing
10 - M6 flat washers	15 - 150mm zip ties

Finished Product



Warranty Registration

Contact Details

Name: _____

Address: _____

Product: _____

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.

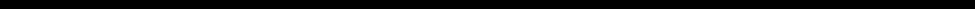
Or Register Online

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



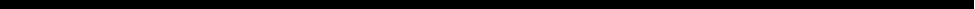
Please post to PO Box 112, Margate QLD 4019

Notes



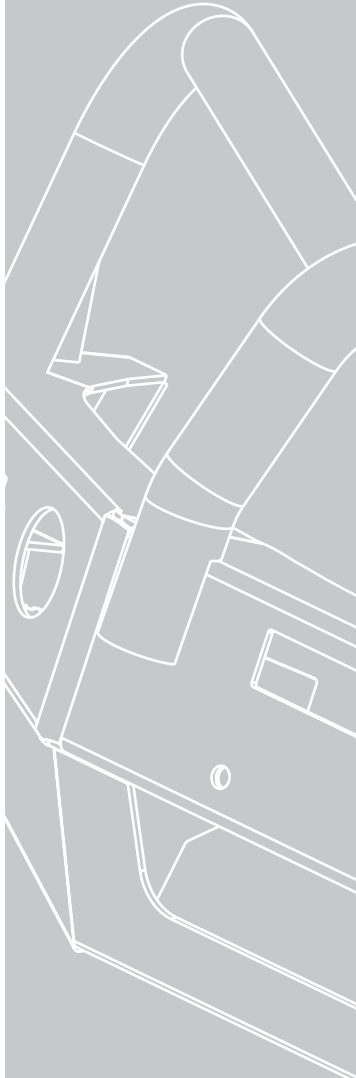
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Notes



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REPLACES: N/A
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1800 069 145
www.ecb.com.au

Strongest Built Australian Made Lifetime Warranty

29 Snook St, Clontarf QLD 4019
PO Box 122, Margate QLD 4019