



**Lighter
Stronger
Better!**

**Strongest Built
Australian Made
Lifetime Warranty**

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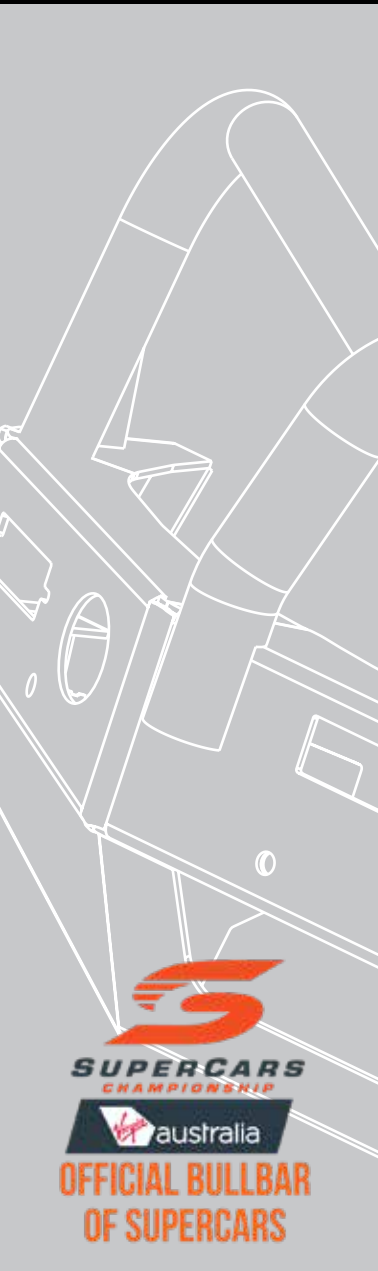


Fitting Guide & Owners Manual

Subaru Liberty

12/2018 on

76mm Nudge Bar
VEHICLE FRONTAL PROTECTION SYSTEM (VFPS)
FOR AIR BAG & ADR COMPLIANT VEHICLES



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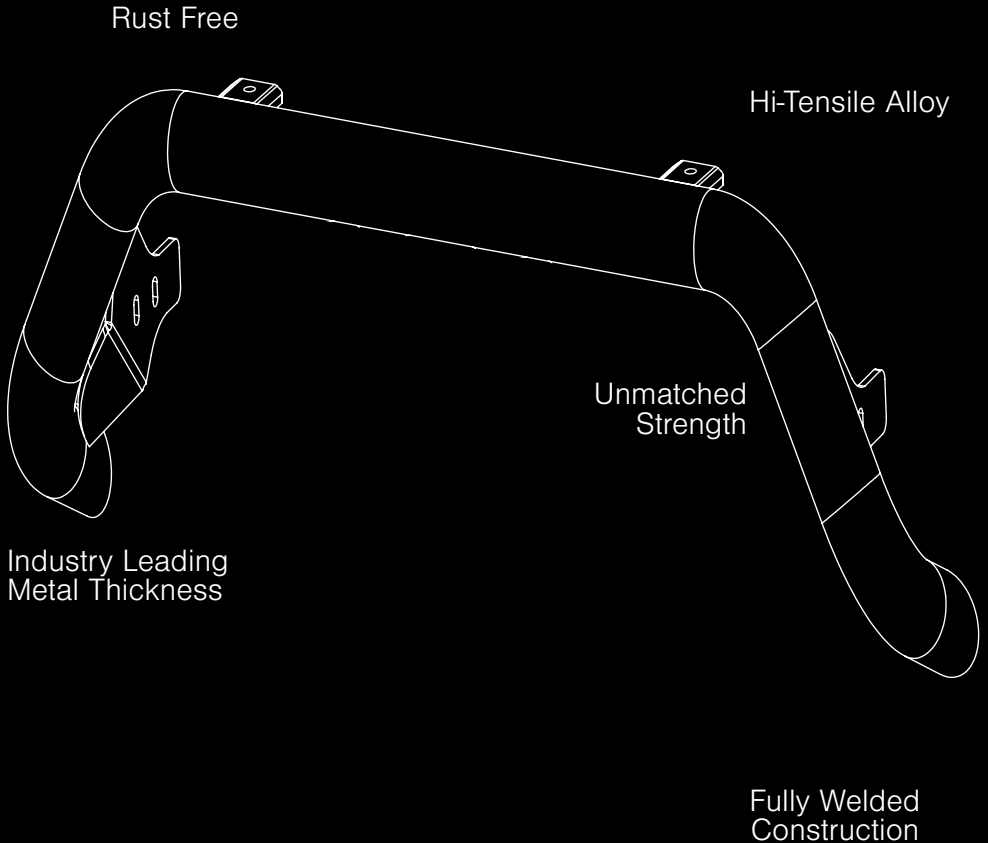
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The Features of ECB



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.

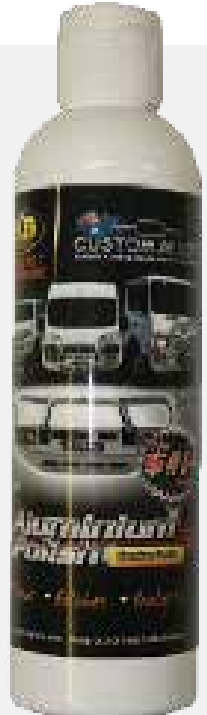
Powdercoated Products

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 trialed 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.



PRODUCT

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.
- Ensure these instructions are left with the vehicle owner and/or operator.



Stage 2

- If fitted, gently pull headlight washers away from bumper and pry top clip up to unclip from shaft.
- Remove headlight washer covers.
- **CAUTION:** Clips are easily broken resulting in replacement and repainting of headlight washer assembly.



Stage 3

- Between headlights, remove six (6) push pull plastic clips.
- Unclip wiring harness from beside headlight on drivers side. Disconnect from holder by wiggling whilts pulling.



VEHICLE MODEL

Stage 4

- From underside of vehicle, remove nine (9) push pull plastic clips.



Stage 5

- In wheel arch each side of vehicle, remove one (1) push pull plastic clip.
- Gently pull bumper from side of vehicle to unclip from guard clips.
- Disconnect fog lights.
- Pull bumper forward from the sides to disconnect clips under headlight.
- Remove bumper



Stage 6

- Remove polystyrene bumper infill.



PRODUCT

Stage 7

- Working on one side at a time attach front steel mounting bracket (supplied) onto front of bumper support using two (2) M10 x 1.25 x 30mm bolts, flat washers, spring washers, and one (1) nut and plate on 300mm wire (supplied) for top hole and one (1) nut on plate on 300mm wire (supplied) for lower hole.

- **Finger tighten only**



Stage 8

- Place convoluted tubing over washer line at area near crash can to avoid rubbing of the mount on the washer line.
- Attach steel mount support (supplied_ to side of bumper support crash can using two (2) M8 x 1.25 x 100mm bolts, flat washers, 2 hole washer plate to inside of crash can, spring washers and nuts (supplied).
- Assemble to front steel mounting bracket using two (2) M10 x 1.25 x 30mm bolts, flat washers and nyloc nuts (supplied).

- **Finger tighten only.**



Stage 9

- Align steel mounting bracket to be horizontal on the top of the mount and approximately 20mm from the top of the plastic lower bumper support. **Tighten front bolts.**
- Check steel mount support is central and bolts are not hitting on shutter system motor. **Tighten all bolts.**



VEHICLE MODEL

Stage 10

- Repeat stages 7 to 9 for opposing side of the vehicle.



Stage 11

- Trim polystyrene bumper support to allow it to sit flat around front steel mounting brackets.
- Refit polystyrene bumper support and plastic top air dam to vehicle.

Stage 12

- Remove camera and plastic mount from rear of grille under badge (if fitted), four (4) phillips screws.



VEHICLE MODEL

Stage 13

- Refit bumper as per reverse of steps 2 to 5.



Stage 14

- Ensure plate on Nudge Bar is parallel to front of Nudge Bar and top.
- Install camera onto front of plate using two (2) M5 x 12mm bolts, flat washer to head side of bolt and nyloc nut (supplied). Place bolt in from rear of plate to hide thread inside cover.



Stage 15

- Install protection bar to mounting brackets using four (4) M10 x 1.5 x 35mm bolts, flat washers, spring washers and nuts (supplied). **Finger tighten only.**
- Align protection bar with vehicle and ensure front of protection bar is vertical.
- **Tighten all bolts**



VEHICLE MODEL

Stage 16

- Connect and check camera for correct angles.
- Afix camera cover to front of camera useing two 8g self drilling screws from underside of fascia.



Final Checks & Installation 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

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.**

Installation Kit

1 - Pair Steel mounting brackets	2 - Pair M10 x 1.25 nut on washer plate on 300mm wire
1 - Pair mount support	4 - M8 x 1.25 x 100mm bolts
2 - 2 hole washer plate	8 - 5/16 x 1 flat washers
1 - Camera cover	4 - M8 spring washers
4 - M10 x 1.5 x 30mm bolts	4 - M8 nuts
4 - M10 x 1.25 x 30mm bolts	2 - M5 x 12mm bolts
4 - M10 x 1.5 x 35mm bolts	2 - M5 flat washers
20 - M10 flat washers	2 - M5 nyloc nuts
8 - M10 spring washers	2 - 8g x 12 self drilling screws
4 - M10 x 1.5 nuts	2 - 150mm length, 10mm convoluted tube
4 - M10 x 1.5 nyloc nuts	1 - 200mm length, 10mm convoluted tubing

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.

Please Post To

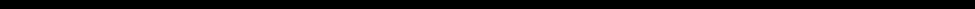
PO Box 122 Margate Qld 4019

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.



Notes

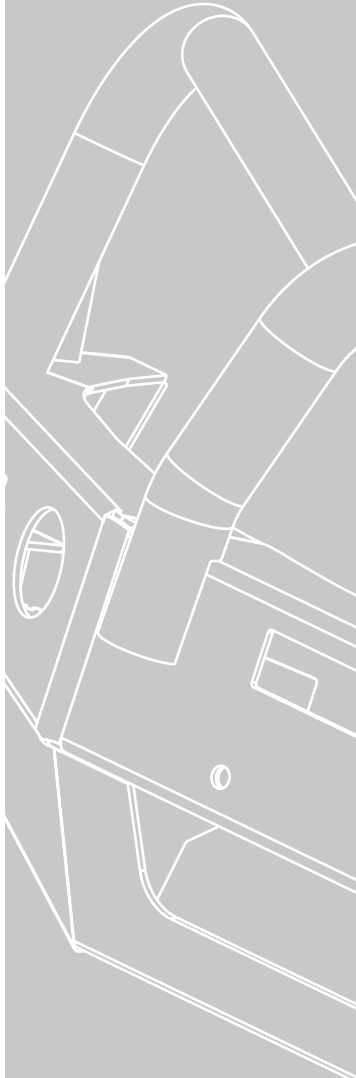


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_____ Full Name

_____ Date

REPLACES: N/A
REVISED: 21.10.19



1800 069 145
www.ecb.com.au

Strongest Built Australian Made Lifetime Warranty

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