



PN:BS103SY



Fitting Guide & Owners Manual

Subaru Outback
12/20 ON

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

Index

Pages 3-5

ECB's Benefits
Product Care

Pages 6-7

Stage 1 - Vehicle Testing and
Preparation
Stages 2 to 6 - Bumper removal

Pages 8-9

Stage 7 to 8 - Remove bumper
Stage 9 -10 steel mount instillation
Stage 11 - Trim Bumper

Pages 10-11

Stage 12 - Electrical wiring
Stage 13 - Remove fog lights
Stage 14 - Camera removal
Stage 15 - Camera instillation
Stage 16 - Bumper re-fitment
Stage 17 - Indicator/Parklight fitment

Pages 12-13

Stage 18 - Clip lock trim fitment
Stage 19 - Protection bar installation
Stage 20 - Connect camera harness
Stage 21 - Bumper light fitment & light
connection

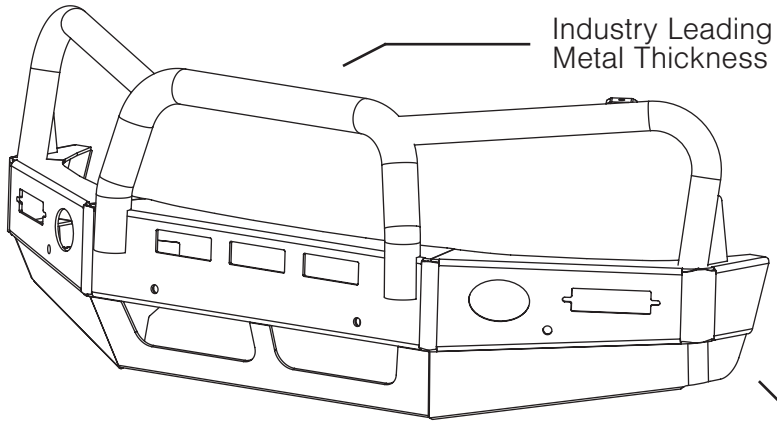
Pages 14-15

Final Checks and Installation Kit
Finish Product

Pages 16-17

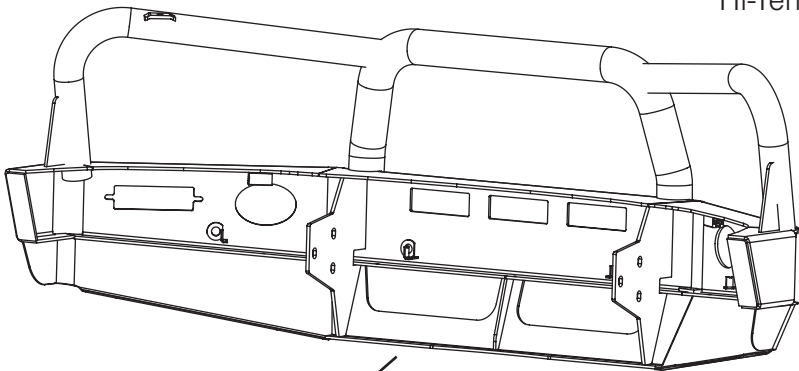
Warranty Registration

The Features of ECB



Industry Leading
Metal Thickness

6mm Thick
Hi-Tensile Alloy



Unmatched
Strength

Fully Welded
Construction

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. Within our decades 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.



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



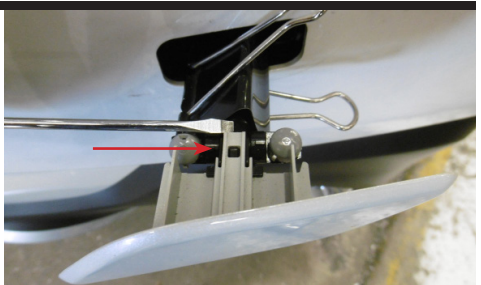
Stage 2

- From top of bumper between headlights remove six (6) push pull clips and two (2) 10mm head bolts. This includes two (2) push pull plugs on air intake cover.
- Disconnect camera harness.



Stage 3

- If vehicle is fitted with headlight washers, gently pull away from the bumper and lift top tab to remove.



Subaru Outback 12/20 on

Stage 4

- Inner top of wheel arch, remove two (2) push pull clip per side.



Stage 5

- Under front of bumper remove nine (9) push pull clips.



Stage 6

- Pull inner guard rearward and disconnect fog lights.
- Gently pulling bumper out from sides of vehicle to unclip from guard and forward to unclip from under headlight.



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Stage 7

- Gently remove bumper.
- Remove foam bumper infill pad from front of bumper support.



Stage 8

- From under bumper support , remove two (2) 10mm head bolts in wind deflector.
- Trim upper tab on wind deflector mount in line with front rail.
- Remove four (4) 12mm head bolts per side from bumper support to chassis. Remove bumper support.



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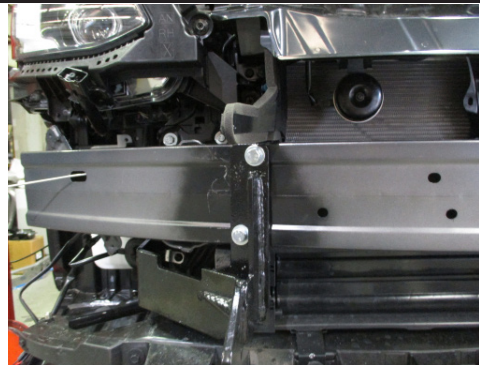
Stage 9

- On chassis side of bumper support bend hanging clips flat back into plate.
- Fit ECB steel mounting brackets, between bumper support and chassis. Install using four (4) M8 x 40mm bolts, spring washers and 5/6 x 1 1/4 flat washers. **FINGER TIGHTEN ONLY.**



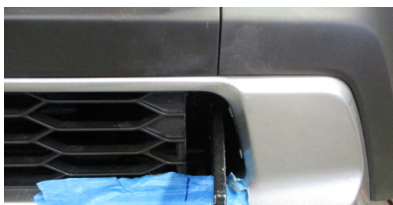
Stage 10

- Align steel mounting brackets to centre of vehicle. Ensure mounts are set to the outside width of the alloy protection bar mounts.
- Using ECB steel mounting brackets as a guide, drill two holes per side in front of bumper support.
- **Blow fillings clear and treat all exposed metal with a rust inhibitor.**
- Install ECB steel mounting brackets to bumper support using four (4) M10 x 1.5 x 30mm bolts, spring washers, flat washers and M10 x 1.5 nuts and washer on 500mm wire.



Stage 11

- Using steel mounts as a guide and neatly trim lower grille to allow mounts to protrude.

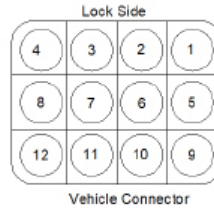


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Stage 12

- Splice ECB wiring harness behind headlight using cable locks (supplied). Ensure harness is clear of all sharp edges and moving parts. Earth ECB cable directly to body.
- Connect ECB quick click fog light harness.

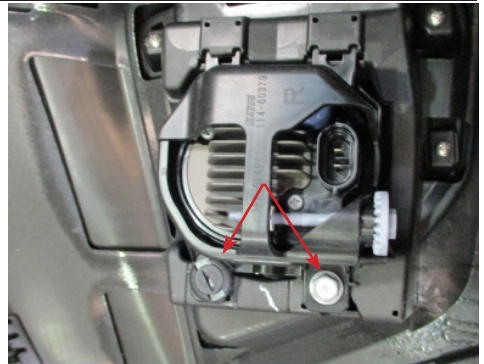
Please note: Wiring colours and numbers are correct at the time of development and may be different to your vehicle. Drivers side wiring colours used in table.



Pin Number	Colour	Use
4	Yellow	Park
8	Red/ Blue	Indicator

Stage 13

- Remove fog lights from bumper to allow for wiring for bumper lights and indicator/park lights.
- One (1) 10mm head bolt and push pull clip per side .



Stage 14

- Remove camera and harness from rear of bumper, two (2) phillips screws.
- Remove locator on bottom of camera.



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Stage 15

- Place camera into protection bar , use camera as a guide and drill two (2) 5mm holes in support bracket and secure, with M5 button screw, flat washers, and nyloc nuts.



Stage 16

- Refit bumper in reverse as per steps 3 to 5.
- Feed wiring through fog light opening for bumper lights and indicators/park light.
- Leave top grille cover at this stage.



Stage 17

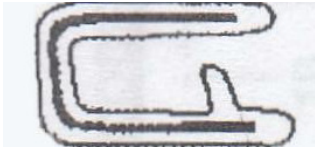
- Fit ECB LED indicator / park lights into protection bar as per instructions supplied with the LED indicator kit.
- NOTE: Ensure park light is to top.



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Stage 18

- 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.



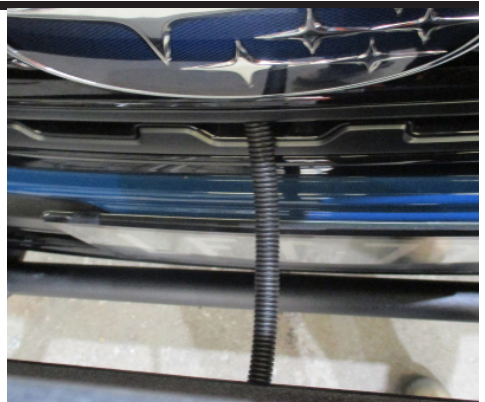
Stage 19

- Attach ECB protection bar to inside of steel mounting brackets using three (3) M10 X 1.5 x 40mm bolts, flat washers, spring washers and nuts (per side).
- Align protection bar with vehicle and tighten all bolts.



Stage 20

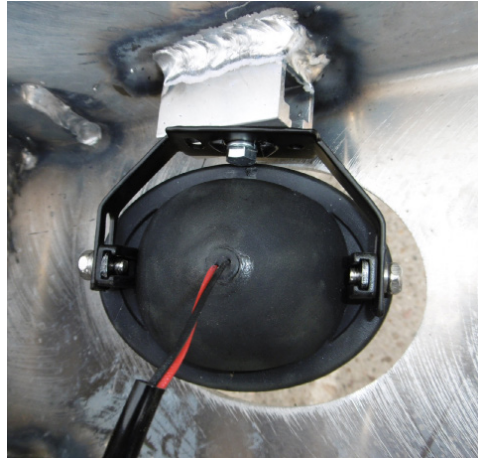
- Feed camera harness through original camera hole and reconnect.
- Replace air intake cover and grille cover.
- Place convoluted tubing over exposed harness to protect from the elements.



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Stage 21

- 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 centralize light to hole. TIGHTEN FIRM ONLY.
- Install bumper light surrounds (supplied) to bumper light openings. Large side of surround to inside of opening. Connect Indicators/park lights and bumper lights.
- Check lights working correctly.



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 - Pair ECB steel mounting brackets	2 - M6 Nuts
6 - M10 x 1.5 x 40mm Bolts	2 - M5x20mm Button head screws
4 - M10 x 1.5 x 30mm Bolts	4 - M5 Flat washers
16 - M10 Flat washers	2 - M5 Nyloc nuts
10 - M10 Spring washers	1 - ECB LED Indicators/Parklight kit (ICLED104ECB)
6 - M10 x 1.5 Nuts	1 - ECB Bumper light kit
4 - M10 x 1.5 Nuts and M10 washer on 500mm wire	2 - Bumper light surrounds
8 - M8 x 1.25 x 40mm Bolts	1 - Bumper light quick click harness (IC10D40S1004ECBH)
8 - M8 Spring washers	6 - Cable locks
8 - 5/16 x 1 1/4 Flat washers	1 - 2300mm length 6mm clip lock
2 - M6 x 20mm Bolts	2 - 450mm lengths 6mm clip lock
2 - M6 Spring washers	1 - 300mm length 10mm convoluted tubing

Finished Product



Warranty Registration

Contact Details

Name: _____

Address: _____

Product: **BS103SY**

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.

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.

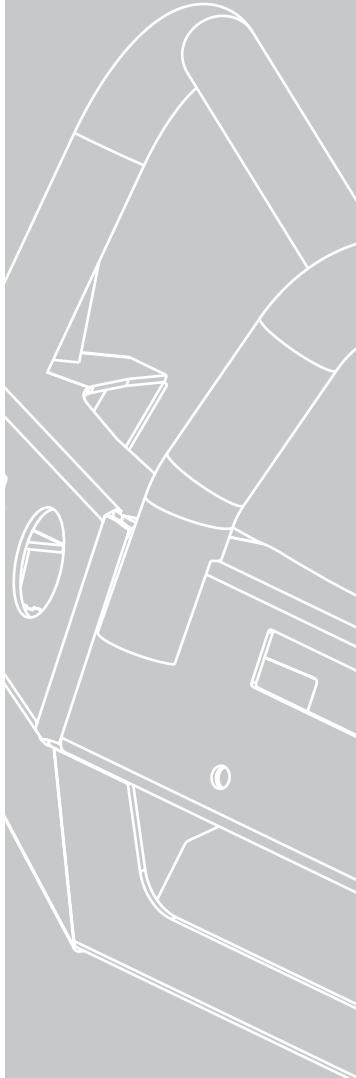


Or Post To:

PO Box 122, Margate, QLD 4019

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www.ecb.com.au

Strongest Built Australian Made Lifetime Warranty

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