



**WORLD'S BEST  
ALLOY BULLBARS**

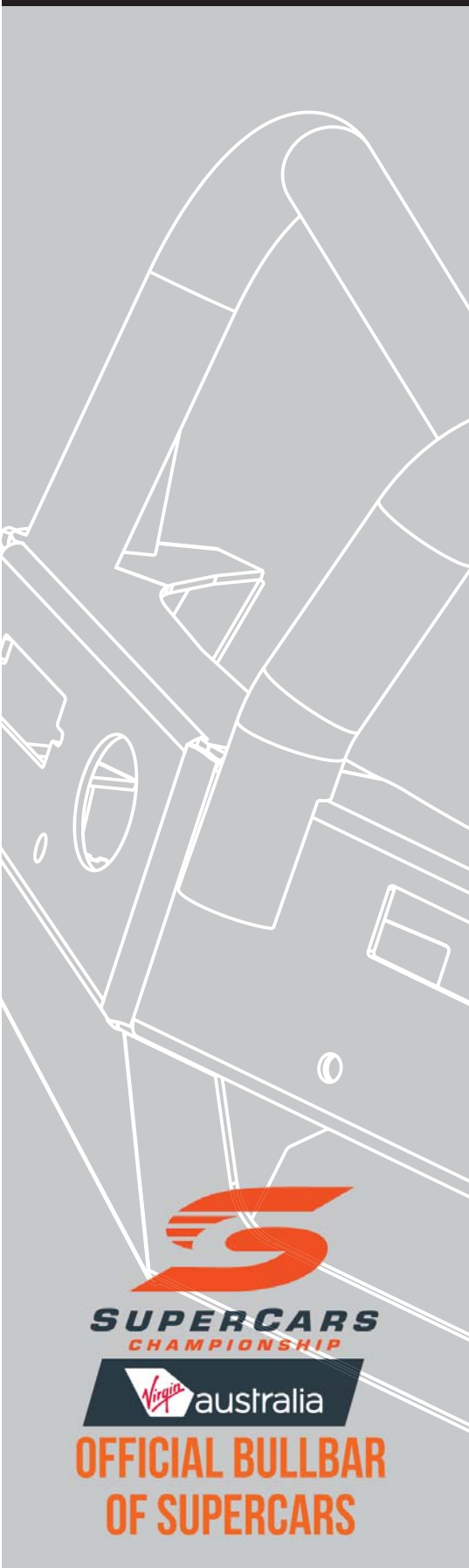
**Strongest Built  
Australian Made  
Lifetime Warranty**

**PN: EAMA53SY**



# **Fitting Guide & Owners Manual Mazda BT50 5/18 on**

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



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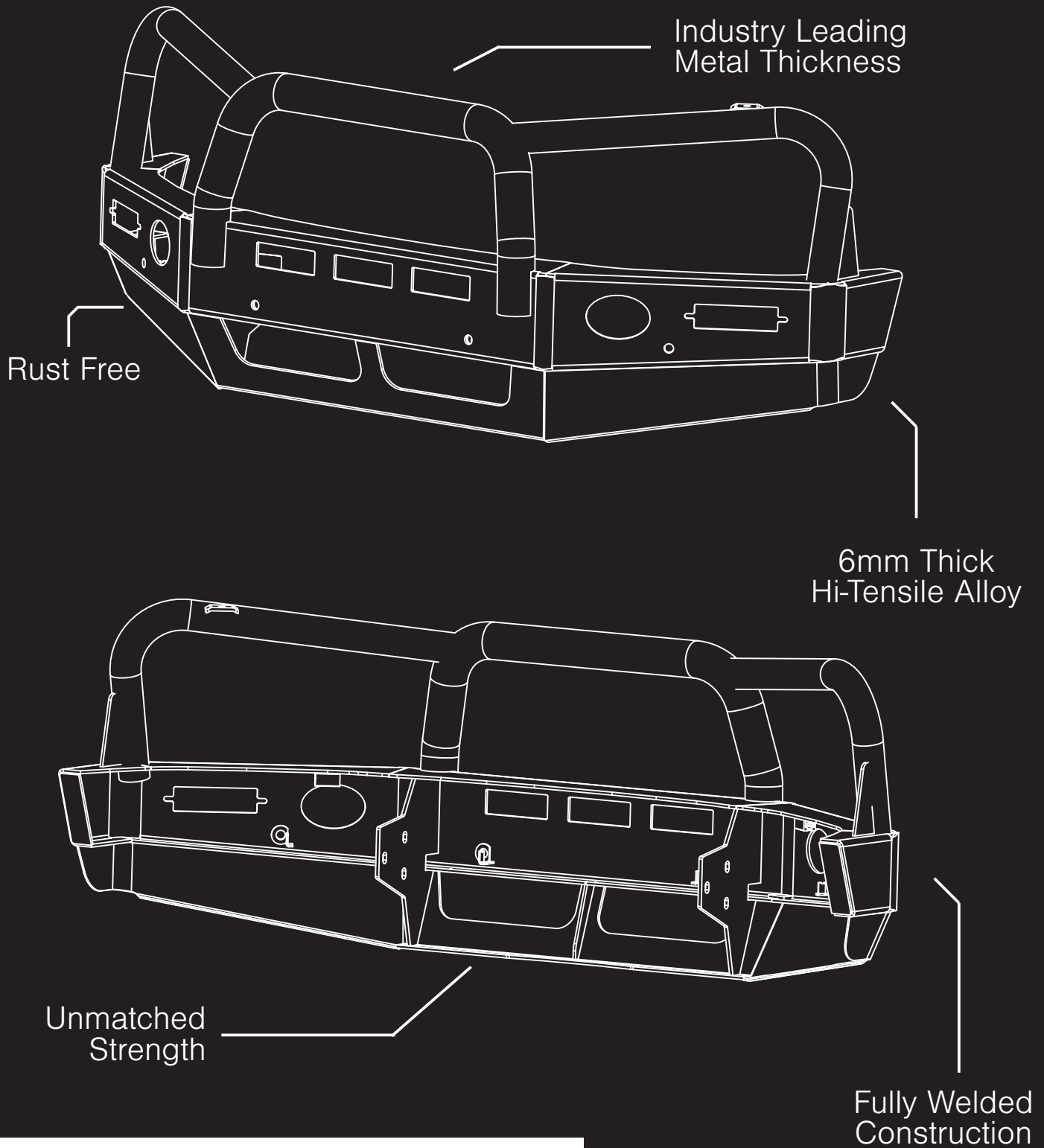
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# The Features of ECB



\*Generic Big Tube Bar Shown

# ECB's Benefits

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## 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

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## 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.



# EAMA53SY Big Tube Bar

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## Stage 1

- Check your vehicle against the vehicle shown in the picture opposite. If your vehicle does not match the vehicle shown, you have the incorrect product for your vehicle. Please call ECB to help resolve your problem.



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## Stage 2

- 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.



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## Stage 3

- Under front of wheel arch remove four (4) plastic screw clips and one (1) PK screw (per side), where bumper meets guard.
- Pull inner guard away from bumper to allow room for bumper cutting tools.



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## Stage 4

- Using paper masking tape, cover cut area on sides and front of bumper ready for marking trim area.
- Check templates for correct sizing. As printer vary, sizing of templates may change.
- Measure from guard join with bumper 100mm top and bottom. Join with a straight line. Cut template 1 from fitting instruction using sharp scissors. Place template 1 over side of bumper, aligning to headlight. Mark cut line on template. Cut line continues across vehicle on body line under grille on bumper.



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## Stage 5

- Check, check and double check cut lines are correct before cutting bumper.
- Trim bumper along marked line.
- Remove four (4) 10mm head bolts from underside of bumper. Disconnect fog lights (if fitted). Remove lower section of bumper.

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## Stage 6

- Remove three (3) push pull clips from top cover on grille. Slide hand under cover and push centre of clip to rear to remove two (2) clips on sides and eight (8) clips holding front of cover. Remove cover. **CAUTION:** Excessive force will damage clips on cover.



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## Stage 7

- Remove two (2) push pull plastic clips from top outer corners of grille. On bottom of grille, gently press centre of clip down to release clip while pulling grille up and forward. Release all clips on grille.



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## Stage 8

- From behind grille remove one (1) 10mm head bolt and one (1) push pull plastic clip from inner lower corner of headlight and two (2) plastic screw clips from under grille.

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## Stage 9

- Gently pull side of bumper out to release from guard clips. Remove upper section of bumper.

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## Stage 10

- Remove plastic air dam from front of bumper support, four (4) push pull plastic clips.

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## Stage 11

- Remove two (2) grey plastic clips from plastic air dam on rear of bumper support and two (2) 15mm head bolts from front of under body steel guard. Loosen only the rear bolts from the under body steel guard and remove.

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## Stage 12

- Remove bumper support, four (4) 15mm head bolts.



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## Stage 13

- Remove radiator air dams, two (2) 8mm head bolts (per side). Retain bolts for refit at a later stage.
- Trim lower front from air dams to allow room for ECB steel mounting bracket.
- Drill holes in rear section of air dam to allow refit of air sensor.



## Stage 14

- Remove four (4) lower bumper supports. one 10mm head bolt for centre supports and two (2) 10mm head bolts for side supports.



## Stage 15

- Refit radiator air dams to radiator support using original equipment 8mm head bolts. Refit air sensor.

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## Stage 16

- Fit ECB steel mounting bracket (supplied) to front of chassis by sliding down from top of chassis. Rear of steel mounting bracket will be tight on outside of chassis. This is an expansion fit.
- Refit four (4) original equipment bolts, eight (8) M12 x 40 bolts, flat washers, spring washers and nuts to front of chassis rails and two (2) M10 x 40 bolts, flat washers, spring washers and nuts (supplied) to front hole on side of chassis.



## Stage 17

- Using ECB steel mounting bracket as a guide, drill rear hole in chassis to 10mm.  
**NOTE:** Blow filings clear and treat all exposed metal with a rust inhibitor.
- Fit M10 x 40 bolts, spring washer, flat washer and nut and washer on 300mm wire (supplied).



## Stage 18

- Fit plastic air dams to rear of ECB mounting bracket using two (2) M6 x 25 bolts, washers and nyloc nuts. **NOTE:** Do not overtighten bolts as it will crack the plastic.

## Stage 19

- Disconnect indicator and parking lights on vehicle. Install ECB quick click wiring harness (supplied) between disconnected harness and indicator / park lights on vehicle. Run wiring out from under lights ensuring clearance from sharp edges and moving parts.

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## Stage 20

- Install ECB quick click wiring harness (supplied) into original equipment fog light connectors.
- Should vehicle not have original equipment fog lights, an aftermarket wiring harness will need to be installed. Call your local ECB supplier to arrange an ECB aftermarket wiring harness if required or alternatively hard wire as an auxiliary light.

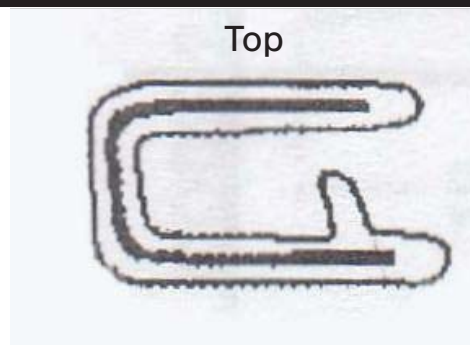
## Stage 21

- Refit top of bumper and grille as per reverse of steps 5 to 8, including two (2) PK screws in end of bumper cover to guard. Attach 3mm clip lock trim (supplied) to lower outer edge of bumper cover. **NOTE:** Trim off lower edge on an angle so trim will sit flush with end of bumper cover.



## Stage 22

- 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.



Trim lower edge  
on an angle



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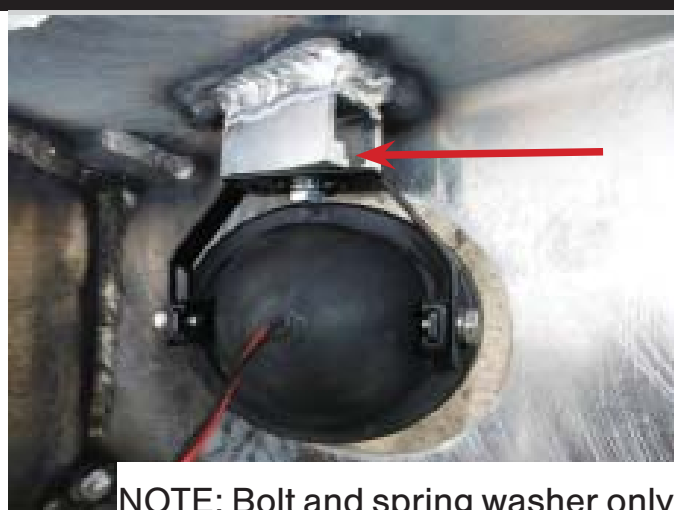
## Stage 23

- 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 24

- Attach ECB fog 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.**



**NOTE:** Bolt and spring washer only from light side with nut to top

## Stage 25

- Fit ECB protection bar to outside of ECB steel mounting bracket using M12 x 40 bolts, flat washers, spring washers and nuts (supplied). **Finger tighten only.**
- Align ECB protection bar to vehicle. **Tighten all bolts.** See finish photos, Page 16.



# Mazda BT50 5/18on

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## Stage 26

- Connect and check ECB indicator / park lights and fog lights for correct operation.
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## Stage 27

- Refit under body steel guard using original bolts into ECB steel mounting bracket at front.  
**Tighten all bolts.**
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## Stage 28

- Install ECB under body guards (supplied) to top of lower leg of channel section of protection bar with rear flange pointing down.
- Access to inner hole from side of plate, rear hole from behind inner guard and front outer hole through access hole in under body guard. Use two (2) M6 x 25 bolts, one (1) M6 x 25 bolt and washer on 100mm wire, flat washers and nyloc nuts (per side) (supplied).



## Stage 29

- Using under body guard as a guide, drill holes in inner guard to 6mm and attach using two (2) M6 x 20 bolts, flat washers and nyloc nuts (per side) (supplied).
- Trim inner guards from bottom of channel to vehicles inner guard removing lower section.



# Final Checks

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## 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. **Insure 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.



# Fitting Kit

## Fitting Kit

1 – ECB Steel mounting bracket	6 – M6 x 20 bolts
2 - 3 hole washer plate	2 – M6 x 25 bolts and washers on 100mm wire
1 - Pair Alloy Under Body Guard marked MM (P/C BLACK)	22 – M6 flat washers
16 – M12 x 1.75 x 40 bolts	12 – M6 nyloc nuts
32 – M12 flat washers	2 – M6 nuts
16 – M12 spring washers	2 - M2 spring washers
16 – M12 x 1.75 nuts	1 – ECB indicator / park light kit (ICLED104ECB)
4 – M10 x 1.5 x 40bolts	1 – ECB quick click harness kit (IC11RANGLED100H)
6 – M10 flat washers	1 – ECB fog light kit
4 – M10 spring washers	1 – ECB quick click harness kit (IC11RANG1004ECBH)
2 – M10 x 1.5 nuts	2 – fog light surrounds
2 – M10 x 1.5 nut and washer on 300mm wire	2 – 650mm Lengths 3mm clip lock trim
2 - M6 x 35 bolts	1 – 2450mm Length 6mm clip lock trim
6 – M6 x 25 bolts	

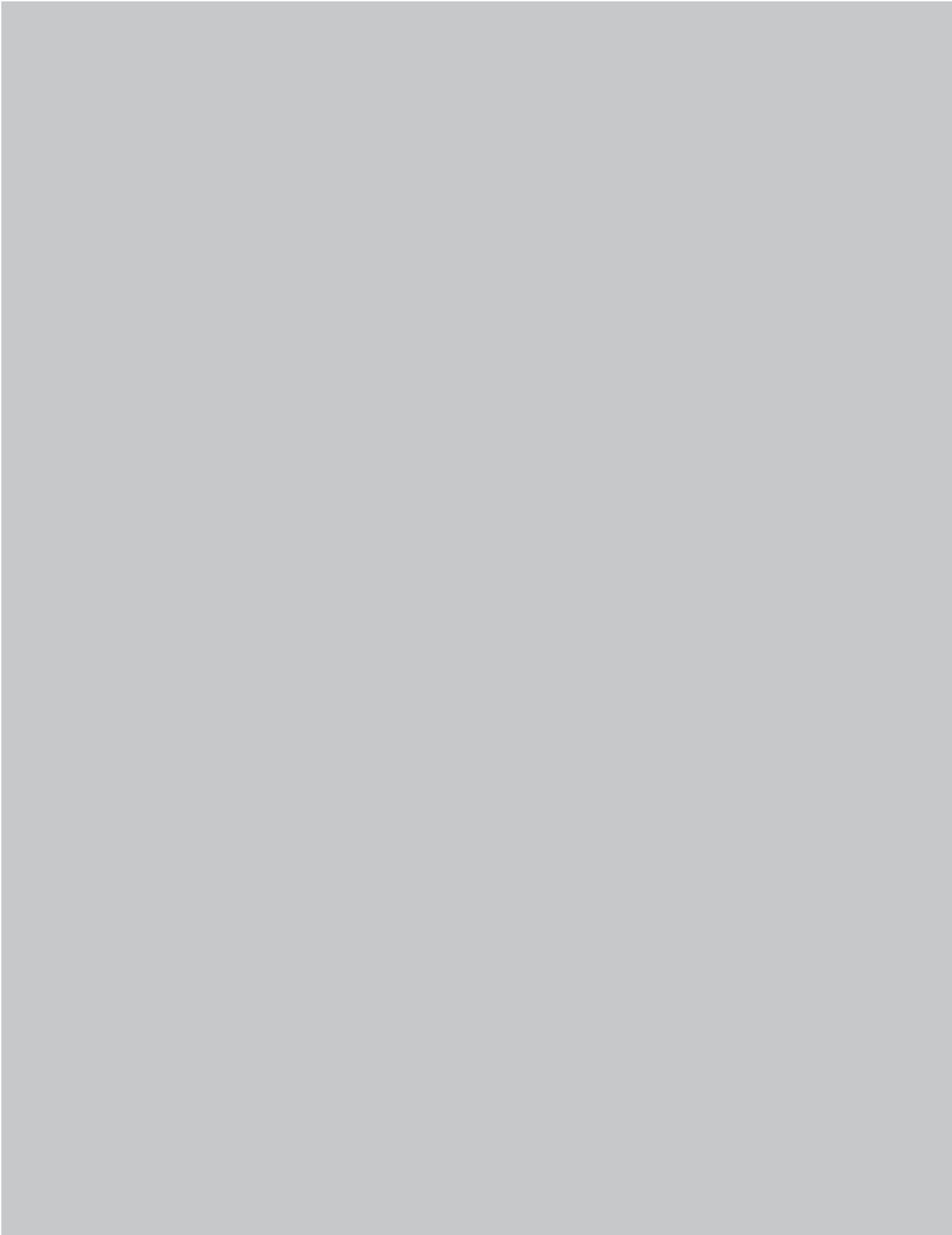
# Finished Product

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# Current Promo TBC

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## Notes

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Full Name

Date

# Warranty Registration

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## 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/TBC](http://www.ecb.com.au/TBC). If you have any  
questions please contact our national office on 1800 069 145 or [www.ecb.com.au](http://www.ecb.com.au).



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**Please post to PO Box 112, Margate QLD 4019**



## Notes

[illegible]

Full Name

Date



# **Strongest Built Australian Made Lifetime Warranty**

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