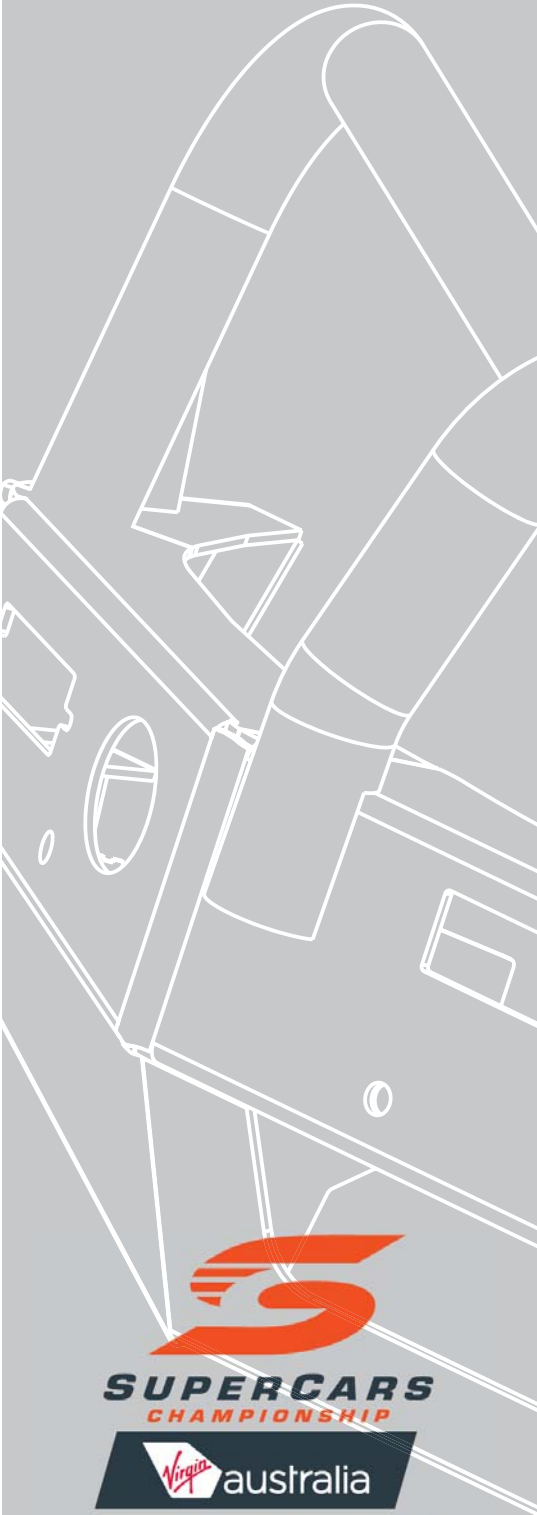




**WORLD'S BEST
ALLOY BULLBARS**

**Strongest Built
Australian Made
Lifetime Warranty**

PN:BK52SY



Fitting Guide & Owners Manual Kia Sorrento 05/18 on

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

5
SUPERCARS
CHAMPIONSHIP
virginia australia
**OFFICIAL BULLBAR
OF SUPERCARS**

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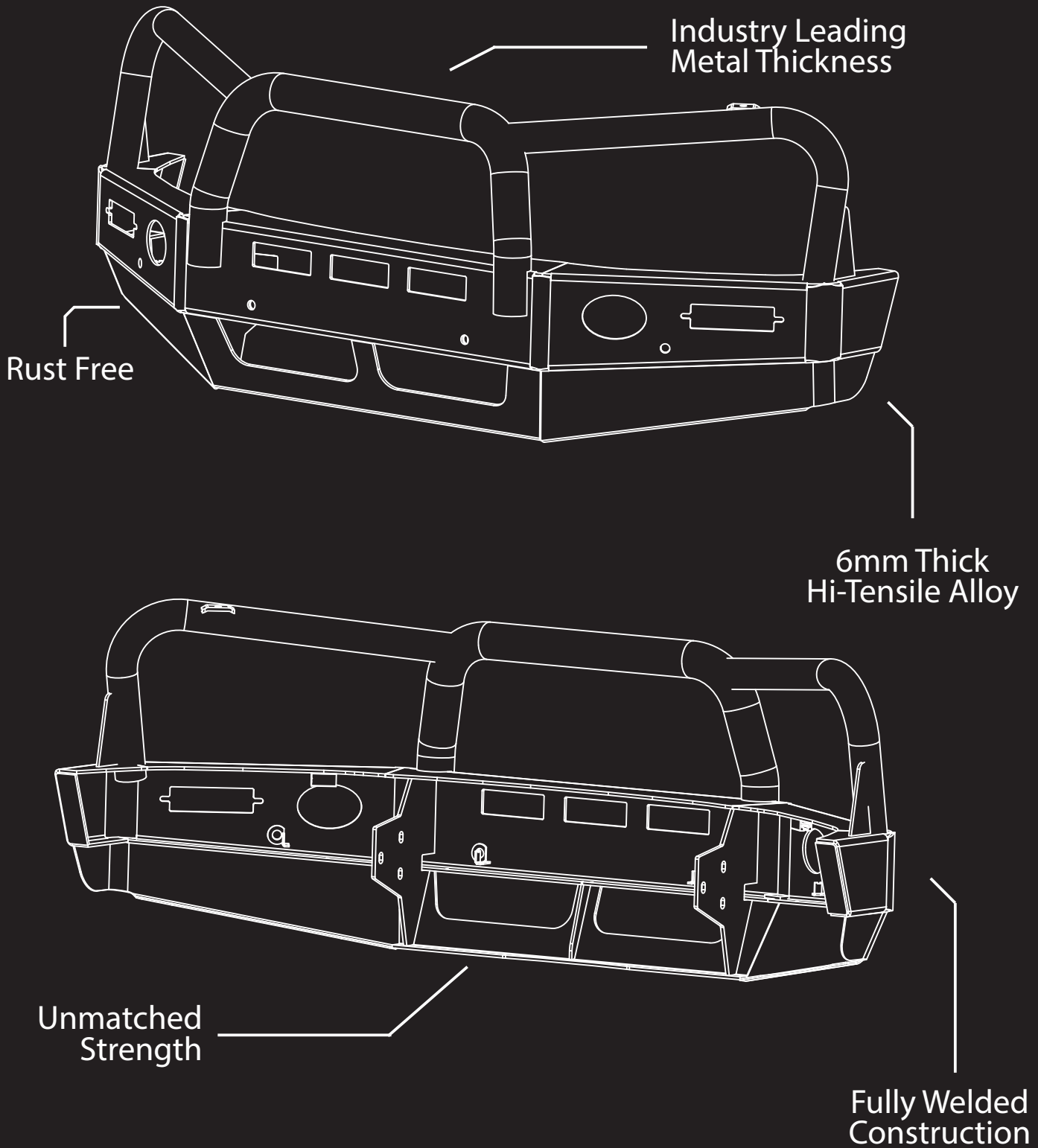
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The Features of ECB



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.

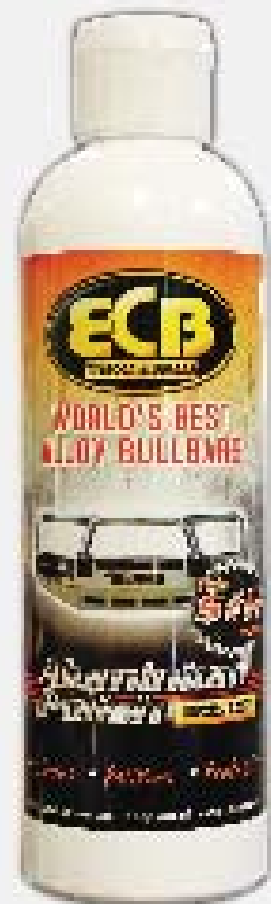
Powdercoated Products

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.



Big Tube Bar

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.
- **CAUTION. HEADLIGHT WASHER CAPS MUST BE REMOVED BEFORE BUMPER IS UNCLIPPED FROM GUARD.**



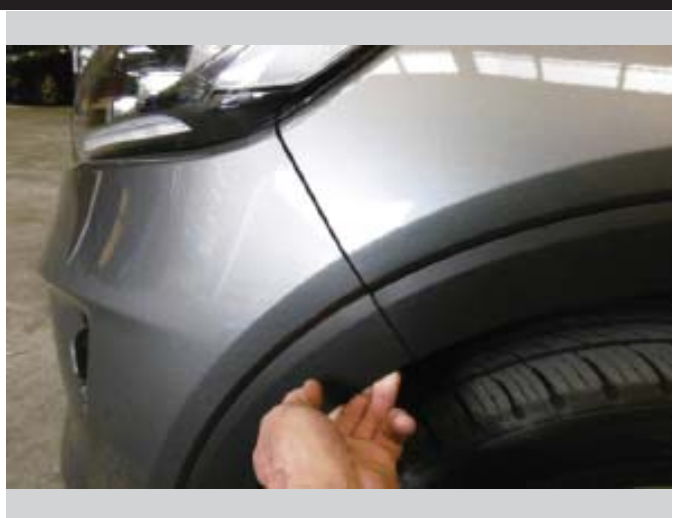
Stage 2

- Remove nine (9) 10 mm head bolts from under body guard and let hang.
- Remove headlight washer covers from bumper skin by gently pulling washer from bumper, then unclipping from shaft.



Stage 3

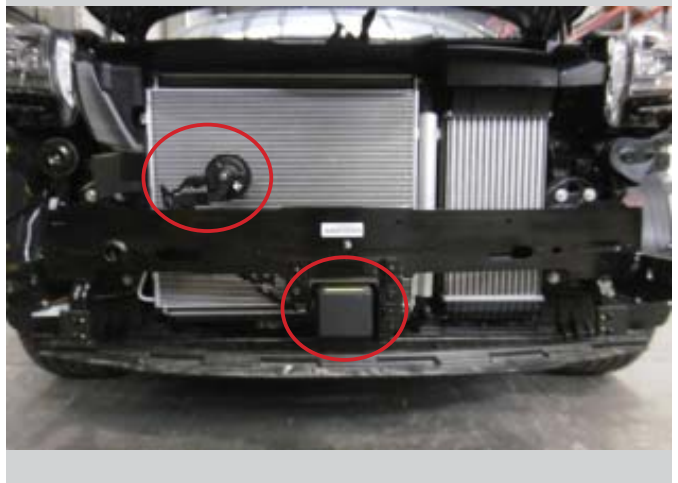
- Remove two (2) 10mm head bolts from outer edge of grille, four (4) black push pull clips from top of radiator panel, one (1) Philips screw from rear wing (per side). Six (6) 10 mm head bolts from underside of bumper, three (3) push pull clips from front of guard liner per side.
- Unplug bumper lights and parking sensors if required. Remove headlight washer caps from headlight washers. Carefully pull out on rear wing to unclip away from guard, pull forward to unclip away from headlight and remove bumper from vehicle.



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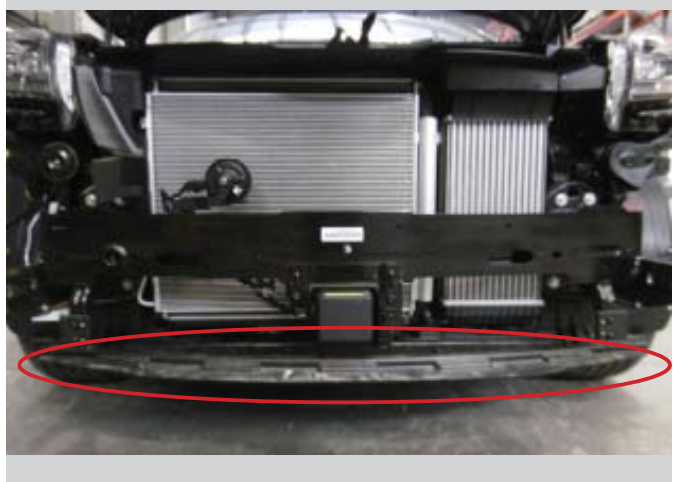
Stage 4

- Unplug air temperature sensor, horn, radar unit and headlight washer line.
- Remove two (2) 10 mm head nuts and eight (8) 12 mm head bolts from bumper support.
- Remove bumper support.



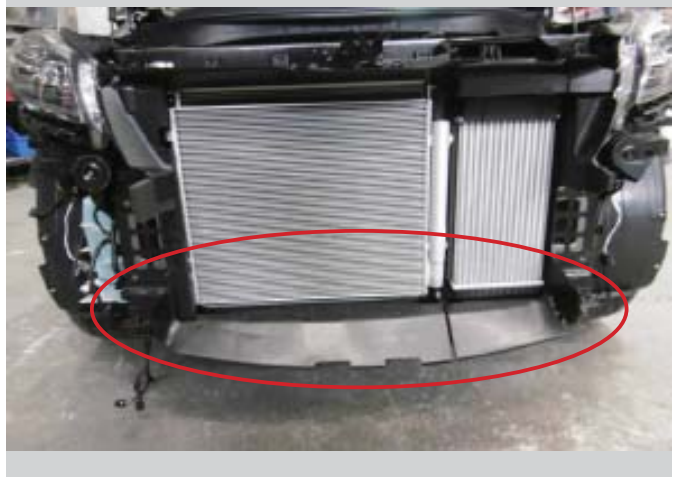
Stage 5

- Remove lower stiffener from bumper support, two (2) 10mm head nuts (per side).
- Refit onto ECB steel mount using four (4) M6 x 30 bolts, flat washers spring washers and nuts (supplied).



Stage 6

- Remove lower half of air dams to allow ECB Steel mount to fit, six (6) 10 mm head bolts and three (3) push pull clips.



Big Tube Bar

Stage 7

- Fit ECB steel mount onto end of chassis rail using eight (8) M8 x 40 bolts, flat washers and spring washers (supplied).
- Centralise mount to vehicle and tighten bolts.



Stage 8

- Fit horn onto ECB steel mount using (1) one M6 x 30 bolt, flat washers, spring washer and nut (supplied).



Stage 9

- Fit air temperature sensor unit onto ECB steel mount



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Stage 10

- Remove headlight washer line from bumper support if required and fix in rear of protection bar with zip ties.



Stage 11

- Extend camera wiring harness with 5 core wire and solder connectors (supplied).



Stage 12

- Remove camera from bumper and relocate into protection bar with original equipment screws.



Big Tube Bar

Stage 13

- Remove sonar unit from bumper support and disassemble, fit onto ECB alloy mount using four original Philips head screws.
- Fit sonar mount onto protection bar with Perspex cover plate in front with three (3) M6 bolts, flat washers and one nyloc nut, two nuts on wire.



Stage 14

- Remove parking sensors and parking sensor harness from the back of bumper. Run original equipment wiring harness into rear of ECB protection bar with sensor connectors in position for sensors to be fitted. Install parking sensors into ECB protection bar by carefully placing sensor with original equipment silicon ring into pre-cut hole. Twist parking sensor into holder and connect wiring harness. Using a zip tie (supplied) wrap around parking sensor and attach to top of the mounting plate. Zip tie wiring harness into rear of ECB protection bar.



Stage 15

- Fit ECB LED indicator / park lights into protection bar as per instructions supplied with the LED indicator kit.



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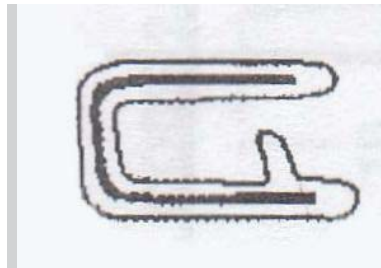
Stage 16

- 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.



Stage 17

- 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 18

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

Stage 19

- Connect ECB Quick Click fog light wiring harness (supplied) into original wiring harness.

Big Tube Bar

Stage 20

- Using mounts as a guide, trim lower grille and styrofoam bumper support to fit.
- Refit bumper in the reverse steps of 2 to 3.

NOTE: As the development vehicle is returned to standard, the photo attached does not show cut grille fitted.



Stage 21

- Fit ECB protection bar to inside of ECB steel mounting bracket using (3) three M12 x 40 bolts flat washers, spring washers and nuts (supplied) (per side). Finger tighten only.
- Align ECB protection bar with vehicle and tighten all bolts.



Stage 22

- Connect and check operation of ECB indicator / park lights, ECB fog lights and headlamp washers. Adjust headlamp washers if required.
- Test drive vehicle to ensure all safety systems are working the same as before Protection bar was installed. Adjust as required.

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

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.

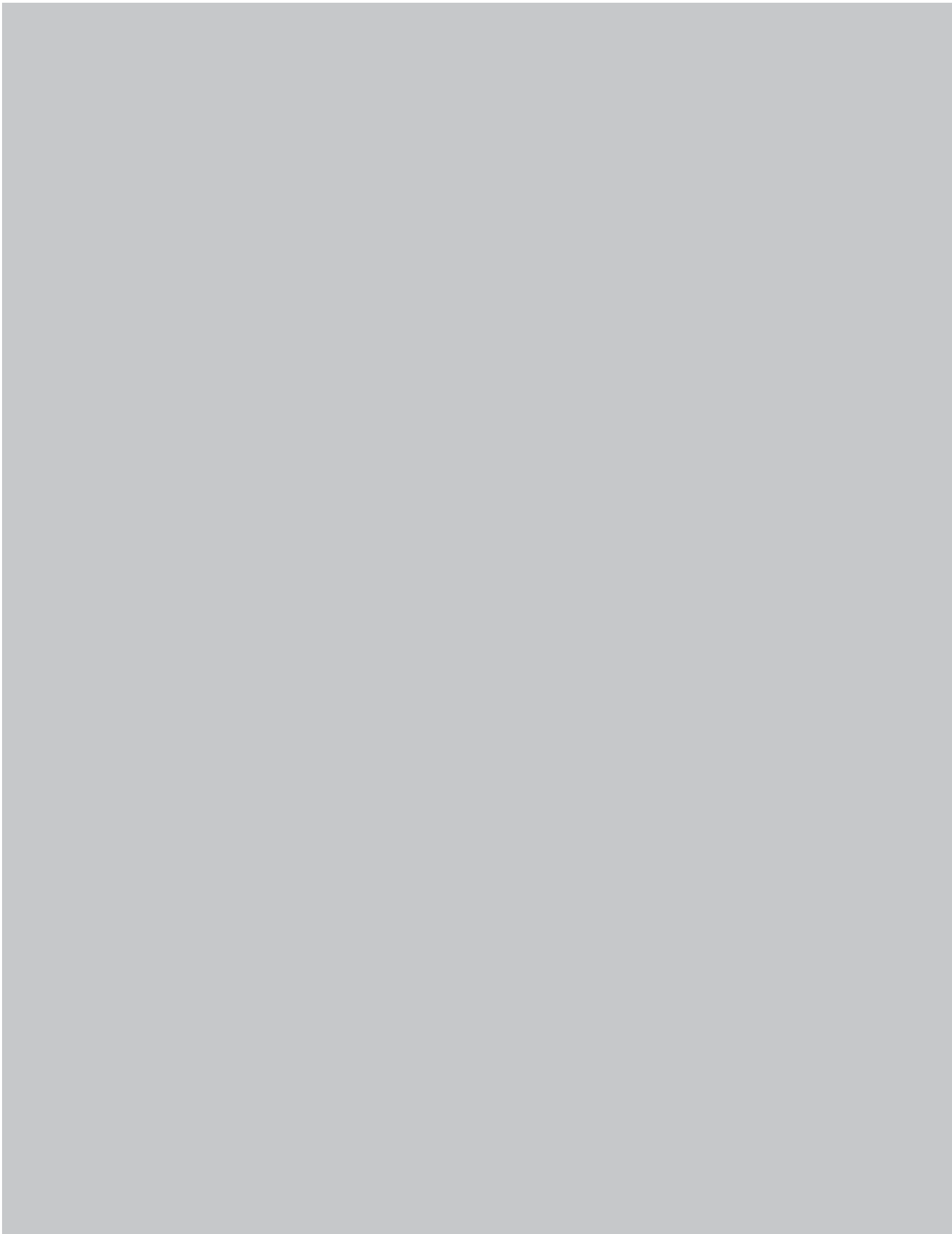
Fitting Kit

1 – Steel mount	2 – M6 spring washers
1 – Sonar mount (BK51_S3AL)	10 – M6 nyloc nuts
3 – 5 core wire 300mm	2 – M6 nuts on wire
1 – Perspex cover (88 X 165 X 2mm)	2 – M6 nuts
6 – M12 x 40mm bolts	1 – ECB Indicator / Park light / DRL kit (ICLED105ECB)
12 – M12 flat washers	8 - Cable locks
6 – M12 spring washers	1 – ECB fog light kit
6 – M12 nuts	1 – Quick Click Kit (IC15KISOFOGH)
8 – M8 x 40mm Bolts	2 – Fog light surrounds
8 – M8 flat washers	2 – 250mm length 6mm clip lock trim
8 – M8 spring washers	2 –500mm length 6mm clip lock trim
5 – M6 x 30 bolts	1 – 2500mm length 6mm clip lock trim
3 – M6 x 25 bolts	8 – 300mm Zip ties
2 – M6 x 20 bolts	10 – Crimp connectors
20 – M6 flat washers	30 – Solder connectors

Finished Product



Current Promo TBC



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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

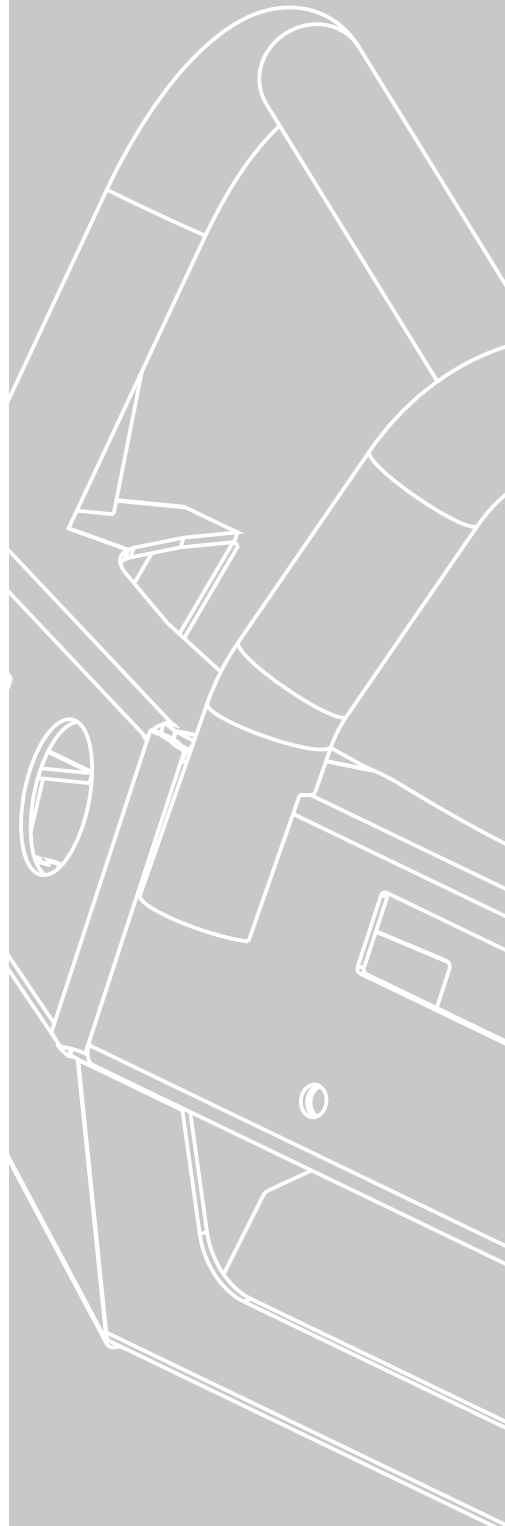
For online registration please go online to www.ecb.com.au/TBC. If you have any
questions please contact our national office on 1800 069 145 or www.ecb.com.au.



PN: #####

Please post to PO Box 112, Margate QLD 4019

REPLACES: N/A
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Strongest Built Australian Made Lifetime Warranty

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