



**WORLD'S BEST
ALLOY BULLBARS**

**Strongest Built
Australian Made
Lifetime Warranty**

PN:BMA34SY



Fitting Guide & Owners Manual MAZDA CX5

01/2022on

BIG TUBE BAR
VEHICLE FRONTAL PROTECTION SYSTEM (VFPS)
FOR AIR BAG & ADR COMPLIANT VEHICLES

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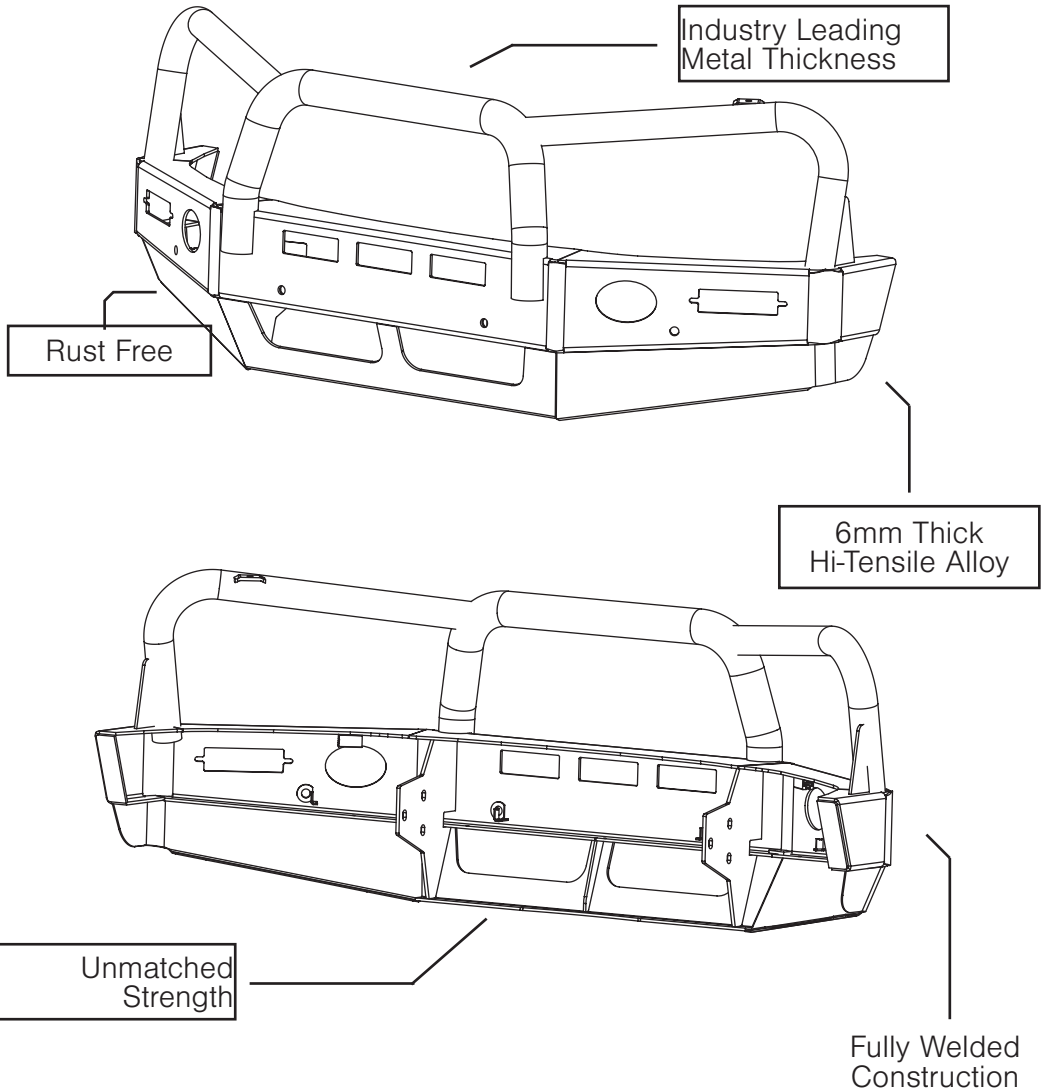
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The Features of ECB



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.**

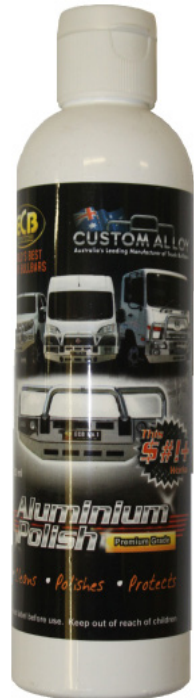
Powdercoated Products

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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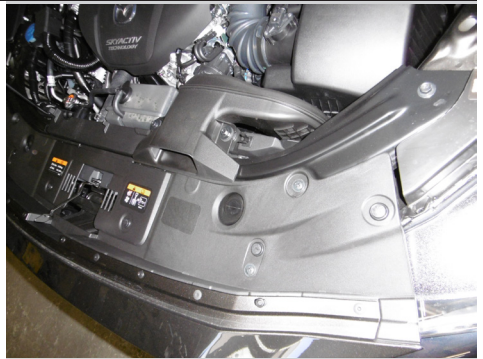
Stage 1

- 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 steel mounting brackets. Discard bolts.
- Ensure these instructions are left with the vehicle owner and/or operator.



Stage 2

- Remove centre trim from top of bumper by removing two black push-pull clips.
- Remove four (4) Phillips head screws and four (4) push-pull clips from top of bumper.



Stage 3

- From front of wheel arch, remove two (2) push pull plastic clips.
- Gently pull outer wheel arch trim away from bumper and guard to release plastic clips.

Caution: take care not to stress wheel arch trim as this will stretch the plastic supports in the rear and make it difficult to refit into position.



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Stage 4

- From front of wheel arch (per side) remove three (3) push-pull clips, ten (10) phillips head screws, and two (2) push-pull clips from under side of bumper. Pull centre of under body guard down and remove two (2) push-pull clips from bumper. Remove one (1) 10 mm head bolt from rear wing (per side).
- Disconnect fog lights and parking sensors.
- Carefully pull out on rear wing to unclip bumper from guard, pull bumper forward to unclip from headlight.



Stage 5

- Remove foam pad from bumper support.
- Remove lower centre ducting by releasing one (1) 10mm head bolts and two (2) push pull plugs.

Stage 6

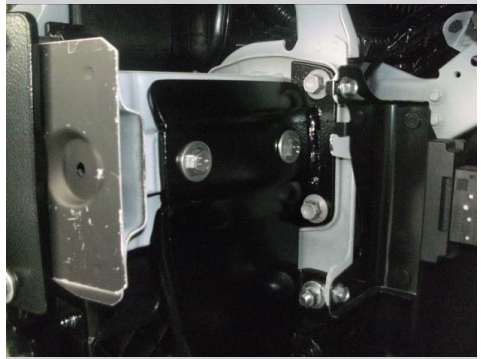
- Remove two (2) 14mm head bolts on outside of chassis rail at bumper support joint. Using a 18mm drill or die grinder, enlarge outside only of front and rear holes in crash can (per side) to fit chassis spacers.
- **Blow filings clear and treat all exposed metal with a rust inhibitor.**



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Stage 7

- Install ECB tow hooks (supplied) onto crash can using original 14mm head bolts and M10 washers into chassis rail and tube spacers into bumper support. Two (2) M8 x 120 bolts can be installed to hold chassis spacers in place whilst drilling mount in next step.
- Fit nuts to rear of 14mm head bolts as locking nuts.



Stage 8

- Drill rear chassis mount to 10mm, using ECB tow hook as a guide.

Blow filings clear and treat all exposed metal with a rust inhibitor.

- Install M10 x 40 bolts, flat washers, spring washers and nuts (supplied) into drilled holes.



Stage 9

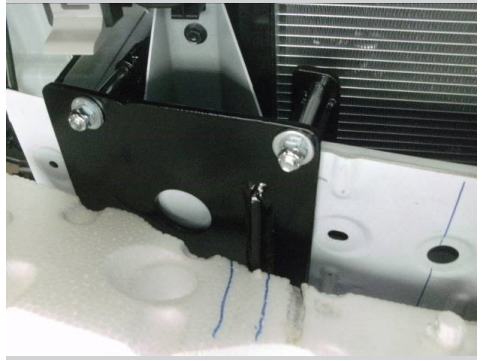
- Fit ECB steel mounting brackets (supplied) onto front of bumper support using inner ECB steel mounting brackets, two (2) M10 x 100 x 1.5 bolts, flat washers and nyloc nuts (supplied) and two (2) M8 x 120mm bolts, flat washers and nyloc nuts (supplied) through ECB tow hooks.
- Centralise ECB steel mounting brackets to front of vehicle and measure inside of alloy protection bar to set ECB steel mounting bracket in correct position.
- Align and **tighten all bolts.**



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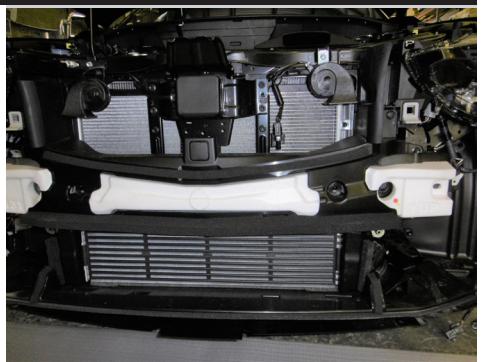
Stage 10

- Mark and cut foam pad to fit around mounts on bumper reinforcement. (Secure with zip-tie if required).



Stage 11

- Mark and cut air deflector to fit around top of mounts.
- Refit to vehicle.



Stage 12

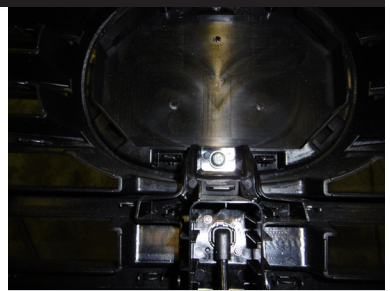
- Remove sensors from bumper, retaining outer and refit into the protection bar,
- Extend the sensor wiring with 300mm wire extensions and solder joiners (supplied).



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Stage 13

- Remove camera mount from bumper, three (3) phillip head screws . At rear of camera remove two (2) phillip head screws.
- Disconnect camera from bumper.
- Extend camera wiring with 300mm of wire extensions and joiners , before joining wires remove camera from harness
- CAUTION: Camera is directional. Mark bottom of camera as removed.



Stage 14

- Fit camera into mounting bracket using original screws.
- Mount camera into protection bar using two (2) 8-18 x 12 self drilling screws. (supplied)



Stage 15

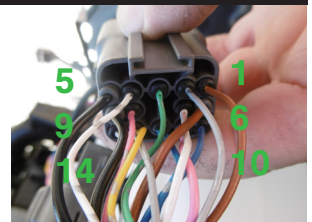
- Remove and discard fog lights from bumper, run outer wiring for sensor through fog light hole.
- Wiring for centre sensors runs through center sensor holes.



Stage 16

- Splice ECB wiring harness into wiring harness under headlight using cable locks (supplied). Ensure harness is clear of sharp edges and moving parts.
- Splice ECB fog light wiring harness into fog light harness on vehicle using cable locks supplied. Ensure harness is clear of sharp edges and moving parts.

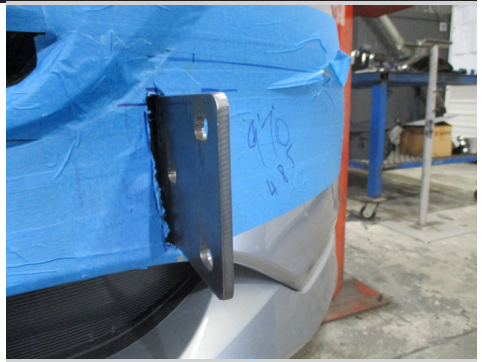
Pin No.	Use
1	DRL
5	EARTH
7	INDICATOR
11	PARK



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Stage 17

- Measure the distance between the mounts on the vehicle. Check this measurement against the mounts in the bullbar.
- Tape front of bumper to avoid damage to bumper.
- Find and mark center line of bumper.
- Measure from the center of the bumper out to give an inner cut line on the bumper. Make bumper cut area 15mm wide to allow room for the mounts.
- Check your marks to the mounts and bullbar by holding bumper up to the vehicle. Carefully cut the bumper to suit the mounting system.



Stage 18

- Mark and cut lower centre air deflector to fit over steel mounts



Stage 19

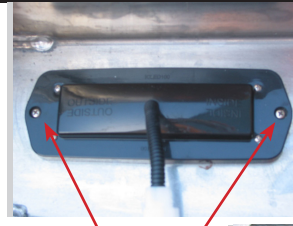
- Refit bumper onto vehicle in the reverse steps of stage 2 to 4.



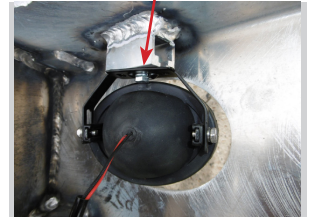
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Stage 20

- 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.
- 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.**



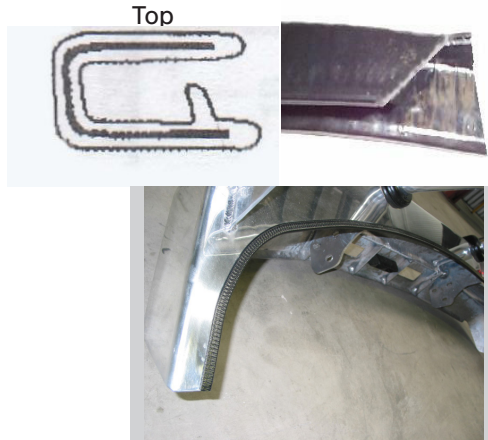
Stainless steel phillips screws



M6 bolt and spring washer with nut to top

Stage 21

- 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 22

- Fit protection bar onto vehicle using three (3) M12 x 40 x 1.75 bolts, flat washers, spring washers and nuts (per side) (supplied).
- Align protection bar with vehicle and **tighten bolts.**
- Connect sensors and camera.

Warning: Test parking sensors and camera for correct operation. Should parking sensors and camera not work correctly, adjustment to protection bar will be 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. **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 steel mounting brackets	8 - 5/16 x 1 1/4 flat washers
1 - Pair steel tow hooks	4 - M8 nyloc nuts
2 - Inner steel mounting brackets	4 - M8 nuts
1 - Camera mounting bracket	2 - M6 x 20mm bolts
4 - 10Nb, 93mm Tube spacers	2 - M6 spring washers
6 - M12 x 1.75 x 40mm bolts	2 - M6 nuts
12 - M12 flat washers	2 - 6g x 3/4 self-tapping screws
6 - M12 spring washers	1 - Indicator/Park Light/DRL kit (ICLED105ECB)
6 - M12 x 1.75 nuts	8 - Cable locks
4 - M10 x 1.5 x 100mm bolts	1- 2300mm length 6mm clip lock trim
2 - M10 x 1.5 x 40mm bolts	2 - 900mm length 6mm clip lock trim
16 - M10 flat washers	12 - 300mm lengths single core wire
6 - M10 spring washers	24 - Solder joiners
6 - M10 x 1.5 nuts	2 - 25mm black blanking plugs
4 - M10 x 1.5 nyloc nuts	6 - 300mm zip ties
4 - M8 x 1.25 x 120mm bolts	

Finished Product



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Warranty Registration

Contact Details

Name: _____

Address: _____

Product: BMA34SY

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

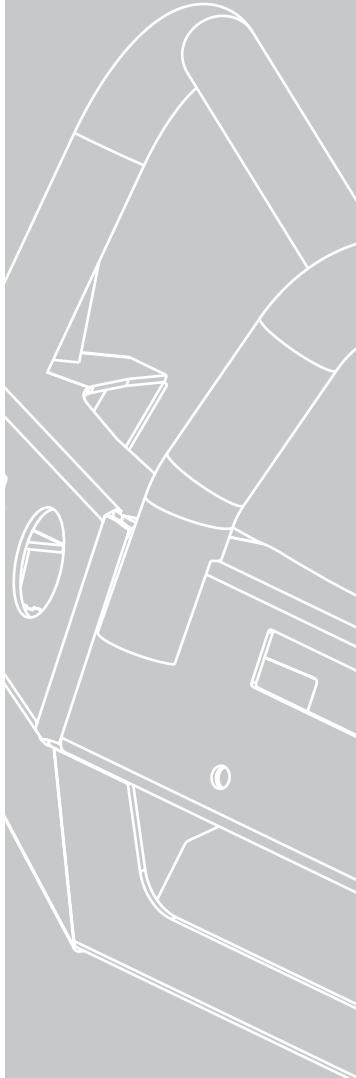
For online registration please go online to www.ecb.com.au/TBC. If you have any
questions please contact our national office on 1800 069 145 or www.ecb.com.au.



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Please post to PO Box 122,
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