



**WORLD'S BEST
ALLOY BULLBARS**

**Strongest Built
Australian Made
Lifetime Warranty**

PN:EAMA56SY



Fitting Guide & Owners Manual

**MAZDA BT50
07/2020on**

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

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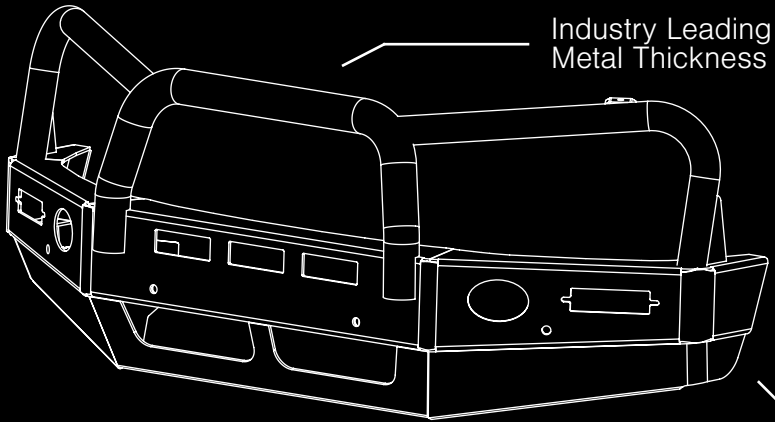
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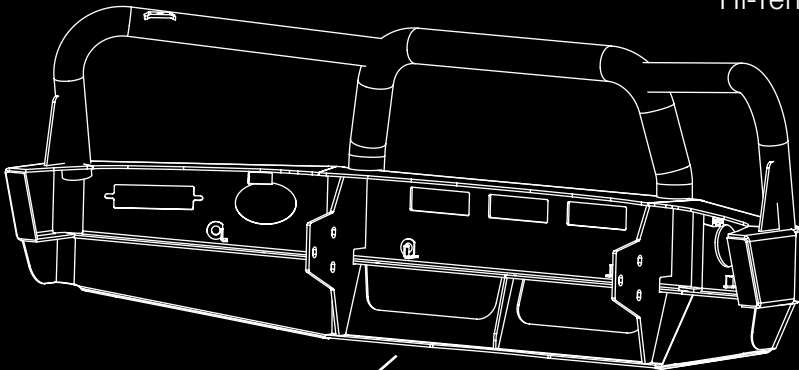
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The Features of ECB



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.
- Where vehicle does not have fog lights, an accessory wiring kit will be required for bumper light installation.



Stage 2

- Under front of wheel arch remove one (1) push/pull clip, one (1) 10mm head nut per/side.
- From front of wheel arch remove four (4) push/pull clips and pull liner away to unplug wiring loom on passenger side.



Stage 3

- From top of grille, remove two (2) phillips screws and one from centre of badge.
- Remove eleven (11) push/pull clips from top of grille and top of bumper behind grille.
- Pull out on rear wing to unclip from guard and forward to remove from vehicle.



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Stage 4

- Remove two (2) 14mm head bolts from rear of steel underbody guard and loosen only three (3) 14mm head bolts from front of guard
- Pull underbody guard forward to remove.



Stage 5

- Remove two (2) 14mm head bolts from end of chassis rail (per/side) and remove reinforcement.
- Remove four (4) bumper stiffener brackets. Two (2) 10mm head bolts from outer brackets and one (1) 10mm head bolt from inner bracket.



Stage 6

- Remove air dam and trim to fit around steel mounting bracket.
- Refit air dam using original equipment clips.



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Stage 7

- Enlarge inside hole in chassis rail to fit tube spacer.

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



Stage 8

- Fit steel mounting bracket onto chassis rail using four (4) M10 x 1.25 x 35mm bolts, spring washers and flat washers (supplied) in front plate of chassis.
- Fit 40 x 40 x 6mm washer plate, one (1) M10 x 100mm bolt, flat washer, tube spacer, spring washers and nuts (supplied) (per/ side) in side hole of chassis rail.
- Align and centralise mount, and tighten all bolts.



Stage 9

- Remove wiring harness and lights from bumper.



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Stage 10

- Using paper masking tape, mask area to be cut to avoid damage.
- As printers vary, check measure template to ensure correct sizing.
- From this instruction, using sharp scissors, carefully cut out template.
- Mark and neatly cut bumper using jigsaw, hack saw or similar.

CAUTION: Double check all marked lines before trimming.



Stage 11

- **NOTE:** GT model with front parking sensors only
- Remove sensor and housing from bumper and relocate to protection bar.

NOTE: Top sensors point down and lower sensors point up in protection bar.



Stage 12

- **ON GT MODELS:** Using a round file or similar tool file sensor hole round to fit four (4) 25mm plastic plug (supplied).
- **ON NON-SENSOR MODELS:** Fit four (4) 25mm black plugs (supplied) in holes in protection bar.



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Stage 13

- Relocate light sensor to bumper under headlight.
- Drill two M6 holes into headlight locator and attach with one (1) M6 x 30mm bolt, flat washer, nyloc nut and one (1) M6 x 50mm bolt, flat washers and nyloc nut (supplied).



Stage 14

- Splice ECB wiring harness into wiring harness behind bumper using cable locks (supplied). Ensure harness is clear of sharp edges and moving parts.
- Relocate wiring harness onto bottom of bumper with cable ties (supplied).
- Trim cut section of bumper with 3mm clip lock (supplied).
- Refit bumper in the reverse of stages 2 to 3.



Stage 15

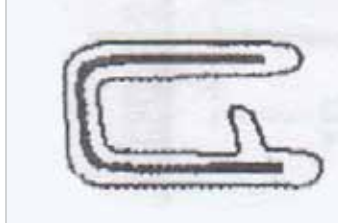
- Fit ECB LED indicator / park lights into protection bar as per instructions supplied with the LED indicator kit.
NOTE: Ensure park light is to top.



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Stage 16

- 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 17

- Fit protection bar onto steel mounting bracket with four (4) M12 x 1.75 x 40mm bolts, flat washers, spring washers and nuts (per/side) (supplied).
- Align protection bar and tighten all bolts.
- Connect and test Indicator/ DRL / Park lights for correct operation.



Stage 18

- Install center under body guard with four (4) M6 x 30mm bolts, flat washers and nyloc nuts (supplied) in front holes.
- Fit three (3) M10 x 1.25 x 40mm bolts, spring washers, flat washers (supplied) in rear hole slots (Loose only at this stage).



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Stage 19

- Install steel under body guard using original bolts in rear holes.
- Tighten all bolts.



Stage 20

- Install side under body guards using three (3) M6 x 30mm bolts, flat washers and nyloc nuts (supplied).
- Guard goes on upper side of channel lower leg.
- Access front bolts through bumper light hole.
- Once all bolts are fitted, tighten all bolts.



Stage 21

- Attach ECB bumper lights to protection bar. Place M6 x 20mm 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 fog light openings. Large side of surround to inside of opening.



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Stage 22

- Mark and trim guard liner.
- Fix liner to body with M6 x 30mm bolt, alloy spacer washer, flat washers and locknut (supplied) to front side of body.
- Use lower cage nut with head of M6 bolt on liner side.
- Trim liner to tuck in behind end cap (per/ side).



Stage 23

- Test all lights for correct operation.
- Road test vehicle to ensure all driver assist features work as per previous test.

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 - Steel mounting bracket	11 - M6 x 30mm bolts
2 - 10nb spacer tube 53mm long	2 - M6 x 20mm bolts
2 - 40 x 40 x 6mm steel washer plates	24 - M6 flat washers
2 - 26 x 8mm Alloy spacer washers	4 - M6 spring washer
8 - M12 x 1.75 x 40mm bolts	13 - M6 nyloc nuts
16 - M12 flat washers	2 - M6 Nyloc nuts
8 - M12 spring washers	1 - LED Indicator/DRL/park light kit
8 - M12 nuts	1 - Bumper light kit
2 - M10 x 1.5 x 100mm bolts	2 - Bumper light surrounds
3 - M10 x 1.25 x 40mm bolts	10 - Cable locks
4 - M10 x 1.25 x 35mm bolts	1 - 2500mm length 6mm clip lock
11 - M10 flat washers	2 - 300mm lengths 3mm clip lock
9 - M10 spring washers	10 - 300mm long cable ties
2 - M10 nuts	4 - 25mm plastic plug
2 - M6 x 50mm bolts	

Finished Product



Warranty Registration

Contact Details

Name: _____

Address: _____

Product: **EAMA56SY** _____

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.

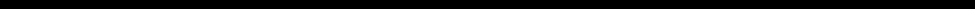
Register Online

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.



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Please post to: PO Box 122,
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Notes

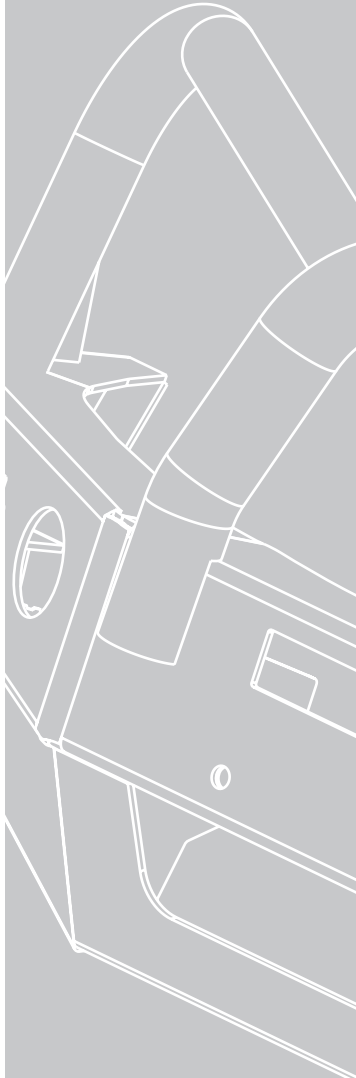


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 Full Name

 Date

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REVISED: 05.01.21



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Strongest Built Australian Made Lifetime Warranty

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