



**WORLD'S BEST
ALLOY BULLBARS**

**Strongest Built
Australian Made
Lifetime Warranty**

PN: NBMA56SY



Fitting Guide & Owners Manual

MAZDA BT-50

07/2020

76mm NUDGE BAR
VEHICLE FRONTAL PROTECTION SYSTEM (VFPS)
FOR AIR BAG & ADR COMPLIANT VEHICLES



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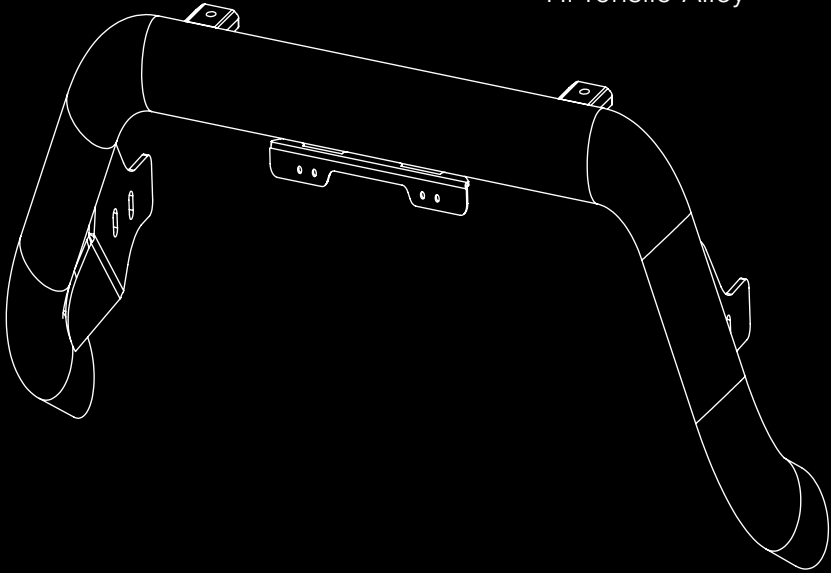
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Notes

The Features of ECB

Rust Free

Hi-Tensile Alloy



Industry Leading
Metal Thickness

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 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 mounts. Discard bolts.
- Ensure these instructions are left with the vehicle owner / operator.



Stage 2

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



Stage 3

- From top of grille, remove two (2) phillips screws and one (1) 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.



Stage 6

- Flatten down tab on rear of reinforcement (per/side).



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Stage 7

- Refit reinforcement to chassis rail with ECB steel mounting bracket (supplied) between reinforcement and rail using two (2) M10 x 1.25 x 40mm bolts, spring washers and flat washers (supplied) (per/side).
- Place one (1) M10 x 1.5 x 120mm bolt, 40 x 6 flat washer to inside of chassis rail, flat washers and nyloc nuts in rear holes (supplied) (per/side).
- Align mounts and tighten all bolts.



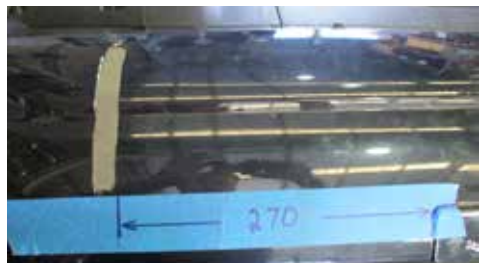
Stage 8

- Refit under body guard using original equipment bolts in the reverse stage 4.



Stage 9

- With paper masking tape, cover area to be cut.
- Using ECB bumper cut template (supplied) as a guide, mark bumper for steel mount to protrude.
- Inside of cut line is 270mm from edge of number plate holder.
- Check inside to inside cut measurement needs to be 855mm.
- Check measurements before cutting.
- Neatly cut bumper as per template to allow protection bar mounting.



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Stage 10

- **NOTE:** GT model with front parking sensors only
- From rear of bumper, remove centre parking sensors and housings from bumper.
- Gently open keepers from sides of sensor to remove sensor.
- Whilst gently prising from bumper, push locking sides of housing into sensor area



Stage 11

- **NOTE:** GT model with front parking sensors only
- Fit sensor housing into protection bar in same direction it came from the bumper. **NOTE:** housing should lock into step in alloy cross member.
- Insert parking sensor into rear of sensor housing until it clips into position.

CAUTION: Sensor housing needs to be installed so the sensor points upward in the cross bar.



Stage 12

- **NOTE:** GT model with front parking sensors only
- From the inside of the bumper, remove the convoluted tubing from the disconnected sensor wiring.
- Using the 300mm of wire and solder joiners (supplied), extend the wiring for the centre sensor wiring.
- Cover the extensions with convoluted tubing (supplied).



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Stage 13

- Refit bumper in the reverse of stages 2 to 3.
- For GT Model: Run Sensor wiring through holes with steel mounting brackets.



Stage 14

- Fit ECB number plate cover to bumper using M6 black combo screws (supplied).
- For GT Model: Using a round file, gently remove the corners from the sensor holes in the bumper.
- For GT Model: Install black plastic plugs (supplied) into the sensor holes in bumper if removed.
- For non-sensor models, install black plastic plugs (supplied) into holes on the cross bar of the nudge bar.



Stage 15

- Fit ECB protection bar to steel mounting brackets using M10 x 1.25 x 40mm bolts, flat washers, spring washers and nuts (supplied).
- Align protection bar and tighten all bolts.
- For GT Model: Connect and check sensors for correct operation.
- Refit number plate to protection bar plate using self-drilling screws (supplied).



Final Checks & Installation 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 travelling on rough roads.

Installation Kit

1 - Pair Steel Mounting Brackets	2 - M10 x 1.5 nyloc nuts
1 - Number Plate Cover	2 - M6 x 25mm black combo screws
2 - 40 x 40 x 6 washer plates	2 - 8-10 x 25 self-drilling screws
2 - M10 x 1.5 x 120mm bolts	2 - 300mm 3-core wire
8 - M10 x 1.25 x 40mm bolts	12 - Red solder joiners
16 - M10 flat washers	2 - 500mm length 10mm convoluted tubing
8 - M10 spring washers	2 - 25mm Black plastic plugs
4 - M10 x 1.25 nuts	

Finished Product



Warranty Registration

Contact Details

Name: _____

Address: _____

Product: **NBMA56SY** _____

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

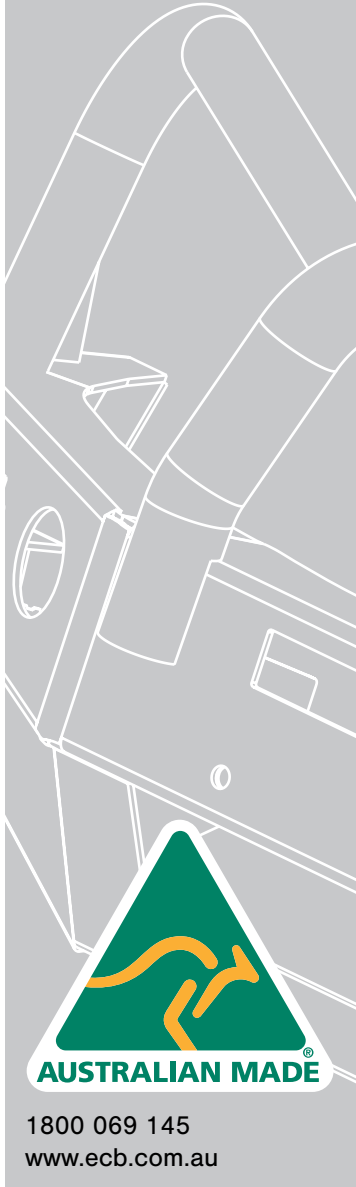
For online registration please go online to www.ecb.com.au/warranty-registration
If you have any questions please contact our national office on 1800 069 145 or
www.ecb.com.au.



PN: NBMA56SY
Please post to PO Box 122,
Margate QLD 4019

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REPLACES: N/A
REVISED: 12.01.21



Strongest Built Australian Made Lifetime Warranty

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