



**Lighter  
Stronger  
Better!**

**Strongest Built  
Australian Made  
Lifetime Warranty**

PN:NBK32SY



# Fitting Guide & Owners Manual

**KIA CARNIVAL**

**04/18 MY19 YP SERIES**

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



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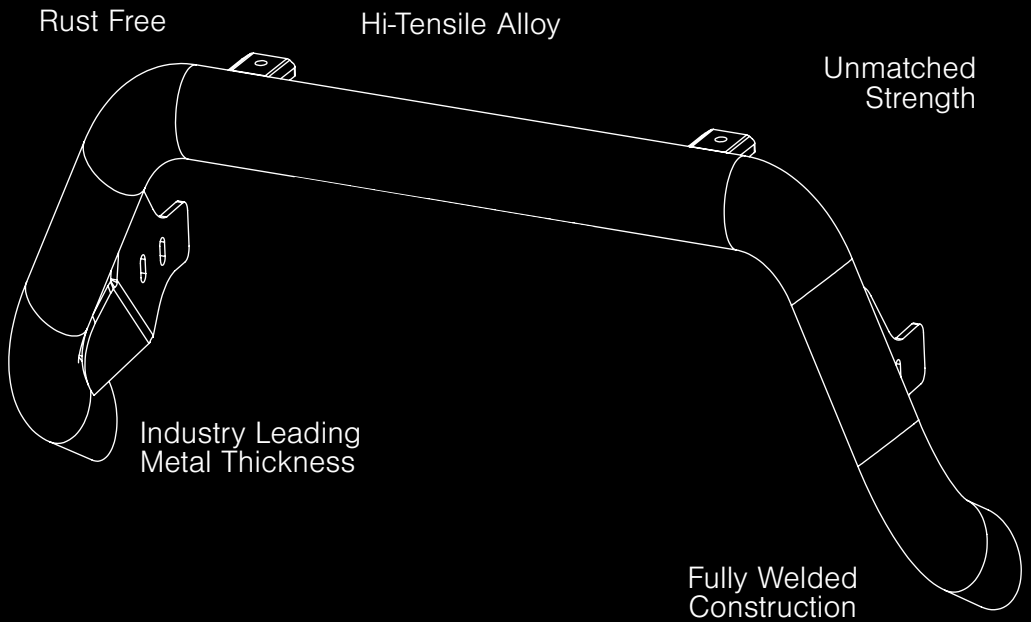
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# The Features of ECB

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# 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.

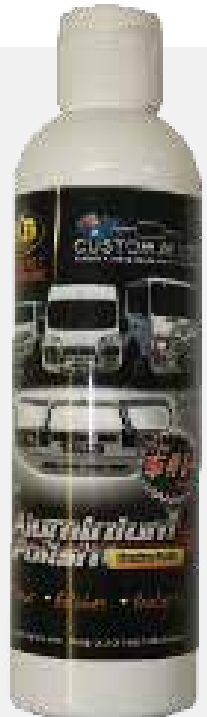
## Powdercoated Products

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 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.



## Stage 2

- Remove top radiator cover, nine (9) push pull plastic clips.



## Stage 3

- Remove four (4) 10mm head bolts between head lights top of bumper.



# KIA CARNIVAL 04/18

## Stage 4

- From underside of bumper, remove six (6) push pull plastic clips on each side.
- Remove three (3) 10mm head bolts from centre.



## Stage 5

- Gently pull rear wing away from vehicle .
- Disconnect fog lights (each side) and parking sensors on passenger side.
- Carefully remove bumper.



## Stage 6

- Disconnect sonar.
- Remove bumper support, four (4) 12mm head bolts (per side) and two (2) 10mm head nuts.



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## Stage 7

- Drill out three (3) holes on outer side of crash can to 10mm.

**Blow away any filings and spray exposed metal with a rust inhibitor.**



## Stage 8

- Attach ECB steel mounting brackets to crash cans.
- Secure steel mounting brackets to crash can using M10 x 1.5 x 40mm bolts, washer plate inside crash can, flat washer, spring washer and M10 x 1.50 nut.
- Finger tighten only.



## Stage 9

- Re-attach bumper support using original bolts and nuts.
- Run sonar harness behind ECB steel mounting bracket and reconnect.
- Align mounts to suit the outer measurements of the alloy protection bar to the inside of the steel mounting brackets. Tighten all bolts.





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## Stage 10

- Measure outside distance between steel mounts.

NOTE: Alloy mounts go to inside of steel.

- Mask area to be cut on lower grille to avoid damage.
- Double check measurements before cutting.
- Trim lower grille.



## Stage 11

- Extend wiring of centre parking sensors using 200mm single core wire and solder joiners (supplied). Place wiring through bumper as extending.
- Place exposed wiring in 10mm convoluted tubing supplied.



## Stage 12

- Refit bumper as per reverse of steps two to six.



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## Stage 13

- Place parking sensors into mounting bracket in rear of protection bar.
- Secure with zip ties. Do not over tighten as may cause sensors give false readings.



## Stage 14

- Mount protection bar to ECB steel mounts using M10 x 1.5 x 40mm bolts, flat washer, spring washer and M10 x 1.5 nut. Finger tighten only.
- Align protection bar with vehicle and tighten all bolts.



## Stage 15

- Connect and test parking sensors for correct operation.
- Test drive vehicle to ensure correct operation of driver assists.

# Final Checks & Installation Kit

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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. **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 ECB steel mounts	10 - M10 x 1.5 nuts
2 - Washer plates (NBK32_4ms p/coat black)	10 - 200mm lengths single core wire
10 - M10 x 1.5 x 40mm bolts	20 - solder joiners
20 - M10 flat washers	2 - 250mm lengths convoluted 10mm tubing
10 - M10 spring washers	2 - 150mm zip ties

# Finished Product

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# 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

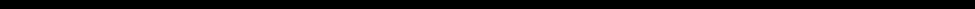
For online registration please go online to [www.ecb.com.au/TBC](http://www.ecb.com.au/TBC). If you have any questions please contact our national office on 1800 069 145 or [www.ecb.com.au](http://www.ecb.com.au).



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**Please post to: PO Box 122,  
Margate QLD 4019**

# Notes

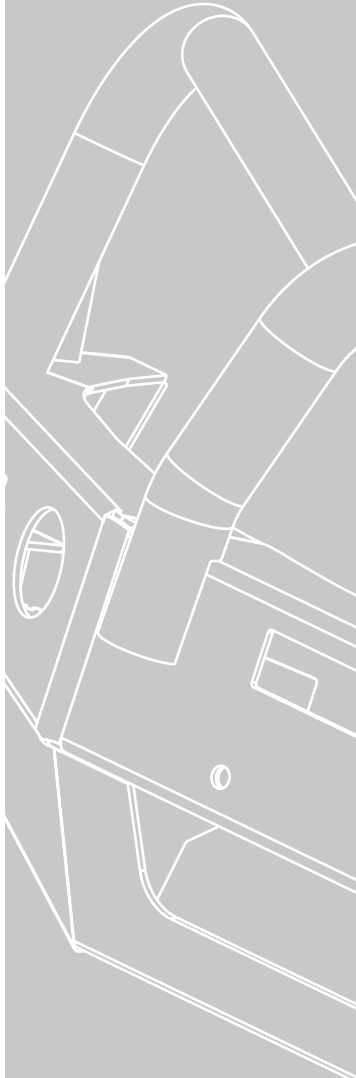


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\_\_\_\_\_ Full Name

\_\_\_\_\_ Date

REPLACES: N/A  
REVISED: 17.11.19



1800 069 145  
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## **Strongest Built Australian Made Lifetime Warranty**

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