



**Lighter  
Stronger  
Better!**

**Strongest Built  
Australian Made  
Lifetime Warranty**

PN: EAF180SY



# Fitting Guide & Owners Manual

**FORD RANGER XLS**

**05/2019 on**

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



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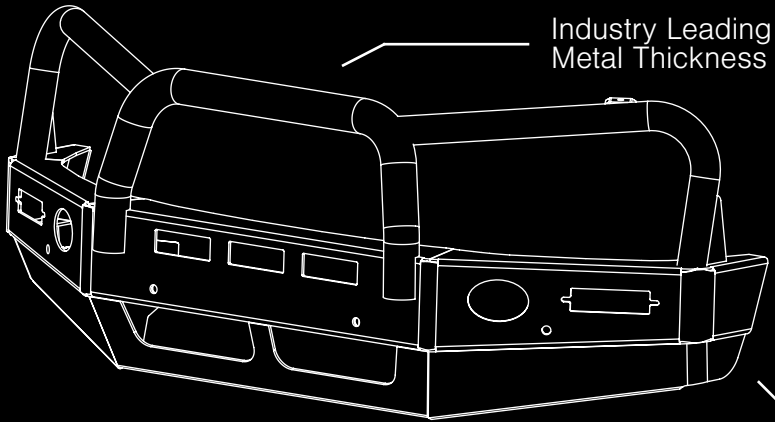
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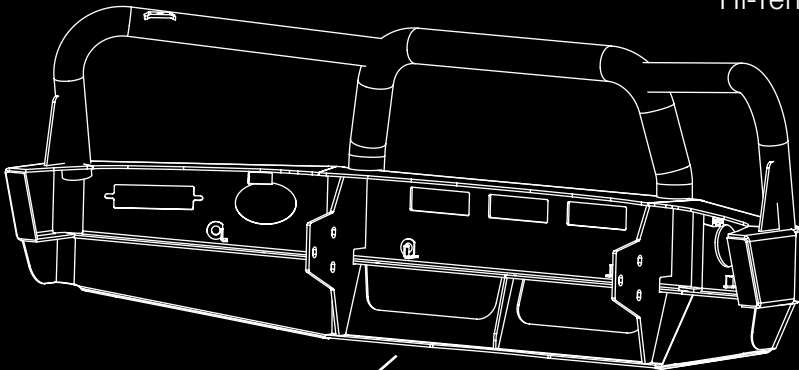
# The Features of ECB

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Industry Leading  
Metal Thickness

6mm Thick  
Hi-Tensile Alloy



Unmatched  
Strength

Fully Welded  
Construction

# 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.

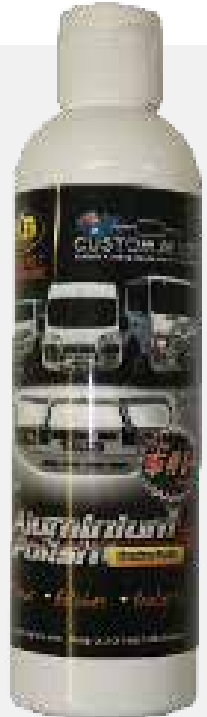
## Powdercoated Products

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.



# EAFF180SY

## 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 five (5) plastic push pull clips from radiator cover on top of grille.
- Remove radiator cover by sliding hand between grille and radiator support to release clips from front of cover.



## Stage 3

- Under front of guards, remove three (3) plastic screw clips, one (1) T25 torx screw and one (1) 8mm head screw from rear corner of bumper / guard join.
- Pull inner guards away from bumper.
- Disconnect fog lights and parking sensor loom (left hand side of vehicle) if required.



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## Stage 4

- From top of grille near headlights remove two (2) 10mm head bolts each side. Gently unclip grille from headlight.
- Release clips on each side of the grille by reaching through the inner guard and pressing two (2) clips forward while applying pressure on the grille.
- From in front of the car reach behind grille and unclip the five (5) clips along the bottom of the grille behind the bumper. Remove grille.



## Stage 5

- Under front of bumper, remove four (4) 10mm head bolts.
- From top of the bumper remove two (2) plastic push pull clips.
- Remove two (2) 8 mm head bolts from front of dams (per/side), one top, one bottom.



## Stage 6

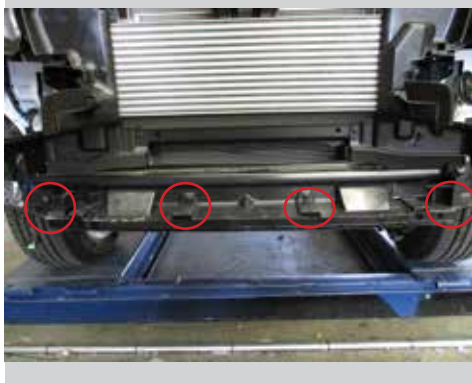
- Gently pull bumper away from guard to release plastic bumper clips.
- Remove bumper from vehicle.
- Disconnect heat sensor, bottom passenger side lower air dam.



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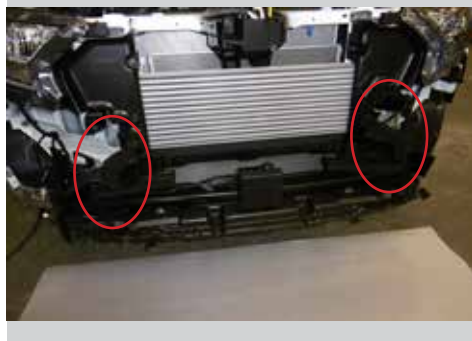
## Stage 7

- Remove four (4) plastic pull clip from front plastic support on bumper support. Remove plastic support.



## Stage 8

- Remove plastic air dams, two (2) 8mm head bolts per side.



## Stage 9

- From underneath the vehicle loosen only the two (2) rear 15mm bolts from the under belly guard.
- Completely remove the front two (2) 15mm bolts.
- Slide the guard towards the front of the vehicle and remove.





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## Stage 10

- Remove two (2) plastic push/pull clips from plastic air dam behind the bumper support.
- Remove four (4) 15mm head bolts from front of bumper support.
- Remove bumper support.



## Stage 11

- Fit ECB steel mounting bracket (supplied) to chassis by sliding down from top of chassis.
- Rear of steel mounting bracket will be tight on outside of chassis. This is an expansion fit. It is important that the mount is level and lined up square with the vehicle body.
- Refit four (4) original equipment bolts to front of chassis rails and two (2) M10 x 40mm bolts, flat washers, spring washers and nuts (supplied) to front hole on side of chassis.



**NOTE:** Extra holes in steel mounting bracket chassis face plates are not required for non winch bars.

**NOTE:** Should the chassis mount not be level and square. A hammer may need to be used to realign the front of the chassis at the connection points on the vehicle to achieve a level and aligned mount.

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## Stage 12

- Using steel mounting bracket as a guide, drill rear hole in chassis to 10mm.

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

- Fit M10 x 40mm bolts, spring washers, flat washer and nut with washer on 300mm wire (supplied).



## Stage 13

- Trim wheel arch around metallic aerial from drivers side wheel guard.
- Gently relocate the FM aerial.
- Drill 6mm attachment holes in top and bottom holes of aerial and attach using a plastic screw clip from lower inner guard.



## Stage 14

- Remove temperature sensor.
- Hold radiator air dam in position on vehicle.
- Mark and trim the smallest amount possible from air dam to fit around ECB steel mounting bracket.
- Using a 6mm drill, redrill air sensor to fit at same level further rearward on the air dam. refit to air dam.
- Attach wiring for aerial or temperature sensor (dependant on side of vehicle), refit to vehicle ensuring wiring has clearance from all moving parts and sharp edges.



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## Stage 15

- Fit plastic air dams to rear of steel mounting bracket using M6 x 25mm bolts, flat washers and nyloc nuts (supplied).



## Stage 16

- Disconnect indicator and parking lights on vehicle. Install ECB quick click wiring harnesses (supplied) between disconnected harness and indicator / park lights on vehicle. Run wiring out from under lights ensuring clearance from sharp edges and moving parts.
- Install ECB foglight quick click harness to original wiring harness.

## Stage 17

- Tape outer corners of bumper for protection when cutting and marking.
- Check templates (supplied) for correct sizing. Using sharp scissors, carefully cut bumper template out.
- Fit template to outer corners and join line of bumper.
- Mark bumper for cutting. Double check for correct alignment. Carefully cut bumper on marked line.
- Carefully cut bumper on marked line.
- **CAUTION:** This is the final cut. Ensure lines and cuts are straight and clean as cut is not trimmed.



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## Stage 18

Mark the bumper side clips ready for cutting.

- Remove bumper side clip from vehicle, three (3) 10mm head bolts.
- Cut the bumper side clips and refit the front section only.



## Stage 19

- Fit cut bumper back to vehicle using the original side clips.
- Install grille to vehicle using original equipment top clips and lower 10mm head bolts.
- Install guard infill (supplied) to rear of guard using original screw.



## Stage 20

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

**NOTE:** Ensure light is the correct way up.



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## Stage 21

- Attach 6mm clip lock trim (supplied) to top of protection bar.
- NOTE: Trim off lower edge on an angle so trim will sit flush with end of protection bar.



## Stage 22

- Remove parking sensors from bumper and refit into protection bar.
- Rotate parking sensor mount to suit direction parking sensor was removed from vehicle. Ensure silicon ring and clear plastic spacer is attached to front of sensor. With parking sensor in correct direction, gently place into parking sensor mount with locating pins ratcheting into holding lugs. Push only until front of sensor is aligned with front of parking sensor mount. Silicon seat on parking sensor should seat loosely into front opening.
- Place zip tie through rear of sensor mount. Tighten firmly. **DO NOT OVERTIGHTEN.**
- Install parking sensor harness into rear of channel using zip ties (supplied)



## Stage 23

- Fit protection bar to outside of steel mounting bracket using M12 x 40mm bolts, flat washers, spring washers and nuts (supplied). **Finger tighten only.**
- Align protection bar to vehicle.
- **TIGHTEN ALL BOLTS.**



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## Stage 24

- 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.
- Install fog light surrounds (supplied) to fog light openings and winch openings. Large side of surround to inside of opening on lights and to rounded side of winch openings.



## Stage 25

- Install under body guards to top of lower leg of channel section of protection bar with rear flange pointing down.
- Access to inner hole from side of plate, rear hole from behind inner gaurd and front outer hole through access hole in under body guard. Use two (2) M6 x 25mm bolts, one (1) M6 x 25mm bolt and washer on 100mm wire, flat washers and nyloc nuts (per side) (supplied).





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## Stage 26

- Using under body guard as a guide, drill holes in inner guard to 6mm and attach using two (2) M6 x 20 bolts, flat washers and nylock nuts (per side) (supplied).
- Trim inner guards from bottom of channel to vehicles inner guard removing lower section.



## Stage 27

- Refit grille/radiator cover using original equipment clips and push gently on the front of cover to seat in position.



## Stage 28

- Refit under body steel guard using original bolts into steel mounting bracket at front.
- **TIGHTEN ALL BOLTS.**



## Stage 29

- Test drive vehicle to ensure all driver assist and parking assists work correctly.
- Test all lights.

# Final Checks

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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.**

# Installation Kit

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## Fitting Kit

|  |  |
|--|--|
| 1 - ECB Steel mounting bracket               | 6 - M6 x 25 bolts                                    |
| 1 - Pair under body guards (marked with "F") | 2 - M6 x 25 bolt and washer on 100 wire              |
| 1 - Pair guard infills (EAF162SY_ IC3AL)     | 6 - M6 x 20mm bolts                                  |
| 4 - Clear plastic sensor spacer              | 22 - M6 flat washer                                  |
| 8 - M12 x 1.75 x 40mm bolts.                 | 2 - M6 spring washers                                |
| 16 - M12 flat washers                        | 12 - M6 nyloc nuts                                   |
| 8 - M12 spring washers                       | 2 - M6 nuts  |
| 8 - M12 x 1.75 nuts                          | 1 - ECB Indicator / Park Light kit (ICLED105ECB)     |
| 4 - M10 x 1.5 x 40mm bolts                   | 1 - Quick Click Kit (IC18FORAIPDH)                   |
| 6 - M10 flat washers                         | 1 - Fog light kit                                    |
| 4 - M10 spring washers                       | 1 - Quick click fog light harness (IC10D40S1004ECBH) |
| 2 - M10 x 1.5 nuts                           | 1 - 2550mm length 6mm clip lock trim                 |
| 2 - M10 x 1.5 nuts and washers on 300mm wire | 20 - 150mm zip ties                                  |



# Finished Product

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# Warranty Registration

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## Contact Details

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Product: **EAF180SY** \_\_\_\_\_

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.

## Please Post to:

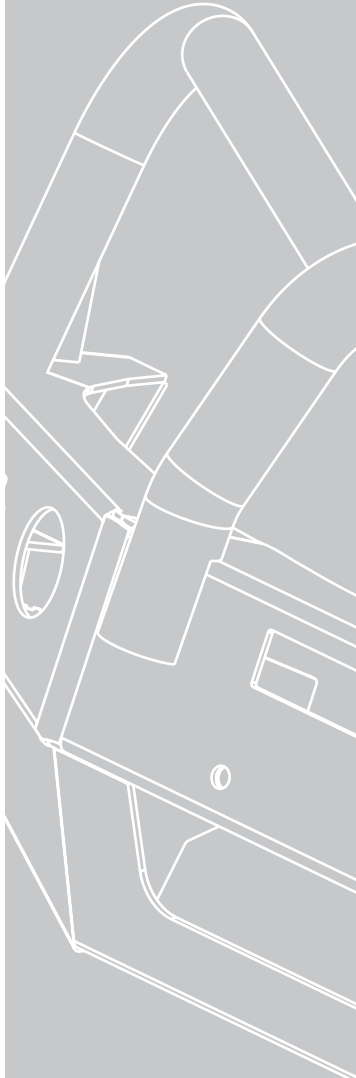
PO Box 122, Margate QLD 4019

## Or Register Online

For online registration please go online to [www.ecb.com.au/warranty-registration](http://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](http://www.ecb.com.au).



REPLACES: N/A  
REVISED: 27.11.19



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## **Strongest Built Australian Made Lifetime Warranty**

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