



**Lighter
Stronger
Better!**

**Strongest Built
Australian Made
Lifetime Warranty**

PN:EAF181SY



Fitting Guide & Owners Manual

FORD RANGER XLS

05/2019 on

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



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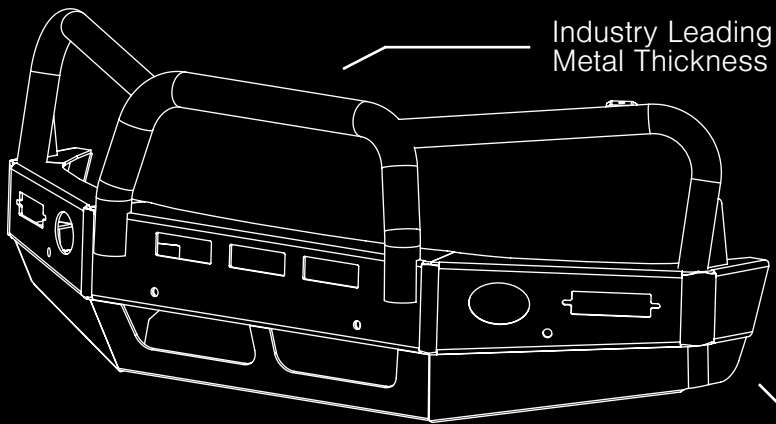
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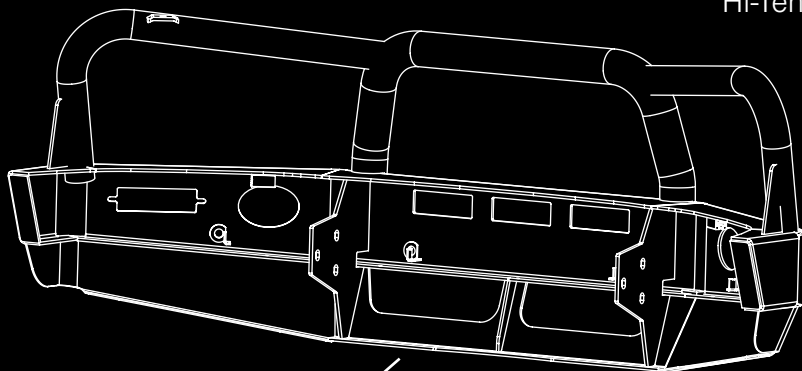
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Notes

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 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 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 harness (left hand side of vehicle) if required.



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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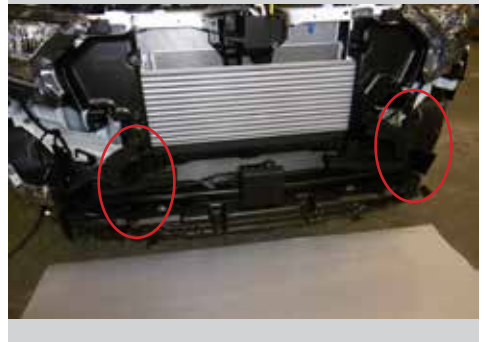
Stage 7

- 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.
- Detach the four (4) lower bumper supports, one (1) 10mm head bolt on centres and two (2) 10mm head nuts on sides.



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.



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.
- Remove plastic air dam from rear of bumper support, one (1) large plastic plug in side of chassis rail beside radiator.



Stage 11

- Fit ECB winch cradle onto chassis rails using one original bolt in outer front hole per/side.
- Fit four (4) M12 1.75 x 40mm bolts, spring washers, flat washers and nuts (supplied) in other front holes per/side.
- Align and centralise winch cradle and **tighten all bolts.**



Stage 12

- Using rear hole in cradle as a guide drill through chassis rail with 10mm drill bit.

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

- Enlarge inner holes in chassis rail to suit sizing of steel spacer tube (supplied).



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Stage 13

- Fit stabiliser mounts onto rear section of cradle with M12 x 1.75 x 40mm bolts, spring washers, flat washers and nuts (supplied).
- In rear holes of mount fit M10 x 1.5 x 85mm bolts, steel spacer tube, flat washers, spring washers and nuts (supplied).
- **Tighten all bolts.**



Stage 14

- Fit winch fairlead to front of winch bracket. Install winch into winch bracket as per winch manufacturer's instructions.
- A control box mount has been included for the Warn 9.5 winch, which installs to the winch motor using two worm drive hose clamps. For Mean Mother winches, use mounting which is included with winch.

Stage 15

- Trim metallic aerial from drivers side wheel inner guard.
- Gently relocate the FM aerial to side of drivers side air dam
- Using aerial as a guide, drill 6mm holes in top and bottom holes and attach using a plastic screw clip from lower inner guard.



Stage 16

- 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.
- Refit to vehicle using original clips.
- Attach wiring for aerial or temperature sensor (dependant on side of vehicle), ensuring wiring has clearance from all moving parts and sharp edges.



Stage 17

NOTE: There are two cut lines marked on the template. Use correct cutting line for the vehicle you are fitting.

- Tape outer corners of bumper for protection when cutting and marking.
- Check template (supplied) for correct sizing. Using sharp scissors, carefully cut bumper template out on correct line for vehicle.
- 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.
- **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, two (2) 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 and drill side plastic push pull clip.

NOTE: A self drilling screw can be use on underside of bumper into guard to help retain the bumper in the clip. Ensure bumper is correctly positioned before installing.

- 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

- 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.
- Connect ECB Quick Click bumper light wiring harness (supplied) into original wiring harness.

Stage 21

- Remove centre of black sensor housing already installed into the bullbar by pushing on middle section breaking small tabs.
- Install parking sensors into their respective sensor housing, ensure silicon ring and clear plastic spacer is attached to front of sensor. For sensor security in housing, Place zip tie through rear holes of parking sensor mount. **Tighten firmly, do not overtighten.**
- Fit wiring harness to parking sensors and rear of channel using zip ties (supplied supplied).



Stage 22

- 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 23

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



Stage 24

- Fit protection bar to outside of steel mounting bracket using eight (8) M12 x 1.75 x 40mm bolts, flat washers, spring washers and nuts (supplied).
- **Finger tighten only.**
- Align protection bar to vehicle.
- **TIGHTEN ALL BOLTS.**
- Refer to further photos on page 18 if required.



Stage 25

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



Stage 26

- 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 guard 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).



Stage 27

- 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 nyloc nuts (per side) (supplied).
- Trim inner guards from bottom of channel to vehicles inner guard removing lower section.



Stage 28

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



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Stage 29

- Refit grille/radiator cover using four (4) plastic push pull clips and push gently on the front of cover to seat in position.
- Check all lights for correct operation.
- Road test vehicle to ensure all driver assists and parking assists are correctly working.



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.**

Fitting Kit

1 - ECB Steel winch mount	6 - M6 x 20mm bolts
1 - Pair winch mount inner supports	4 - M6 x 25 bolts
1 - Pair under body guards (marked with "F")	2 - M6 x 25 bolt and washer on 100mm wire
1 - Pair guard infills (EAF162SY_IC3AL)	26 - M6 flat washers
1 - Warn control box mount	10 - M6 nyloc nuts
4 - 10 Nb tube spacers 48mm long	2 - M6 spring washers
2 - Large hose Clamps	2 - M6 nuts
4 - Clear plastic sensor spacer	1 - ECB Indicator / Park Light / DRL kit
20 - M12 x 1.75 x 40mm bolts	1 - Quick click kit (IC18FORAIPDH)
40 - M12 flat washers	1 - Bumper light kit
20 - M12 spring washers	1 - Quick click bumper kit (IC10D40S1004ECBH)
20 - M12 x 1.75 nuts	4 - Bumper light trims
4 - M10 x 1.5 x 85mm bolts	1 - 2550mm length 6mm clip lock trim
8 - M10 flat washers	1 - 800mm length 6mm clip lock trim
4 - M10 spring washers	15 - 300mm Zip ties
4 - M10 x 1.5 nuts	6 - 150mm zip ties

Finished Product



Warranty Registration

Contact Details

Name: _____

Address: _____

Product: **EAF181SY** _____

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

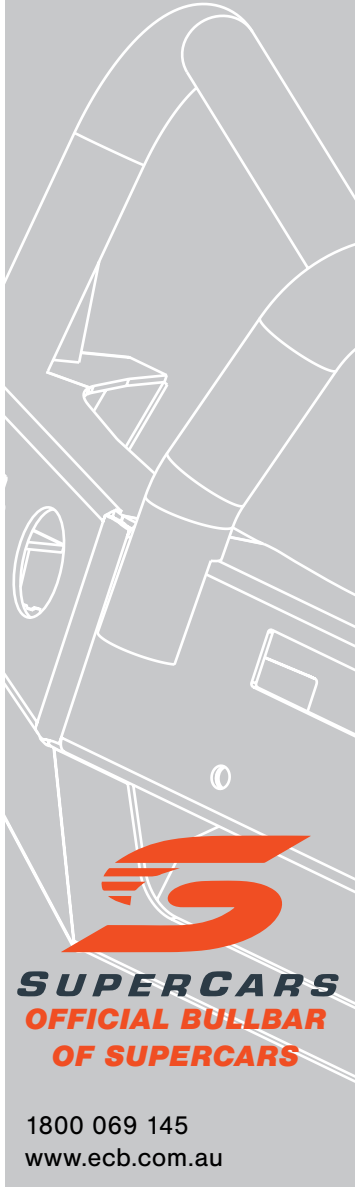
Or Register Online

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



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Strongest Built Australian Made Lifetime Warranty

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