



**Lighter
Stronger
Better!**

**Strongest Built
Australian Made
Lifetime Warranty**

PN:EAF173SY



**Fitting Guide &
Owners Manual
FORD RANGER PX MKIII
09/2018 ON**

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



Index

Pages 3-5

ECB's Benefits
Product Care

Pages 6-7

Stage 1 - Vehicle Testing and Preparation
Stage 2 - Radiator/ grille cover removal
Stage 3 to 6 - Bumper removal

Pages 8-9

Stage 7 - Underbelly guard removal
Stage 8 - Bumper support and sonar unit removal
Stage 9 - Air Dam removal
Stage 10 - Steel mounting bracket installation

Pages 10-11

Stage 11 to 12 - Steel mounting bracket installation
Stage 13 - Winch installation
Stage 14 - Aerial relocation
Stage 15 - Air dam trim and refitting
Stage 16 - Light wiring

Pages 12-13

Stage 17 to 19 - Bumper trim and refitting
Stage 20 - Sensor refitment

Pages 14-15

Stage 21 - Sonar installation
Stage 22 - Indicator / Park Light fitment
Stage 23 - Bumper light fitment
Stage 24 - Clip lock trim fitment
Stage 25 - Protection Bar fitment
Stage 26 - Connections and wiring checks

Pages 16-17

Stage 27 - Under body guard refitment
Stage 28 to 29 - Side underbelly guard installation
Stage 30 - Radiator cover refitment, Road test and electrical tests
Final checks

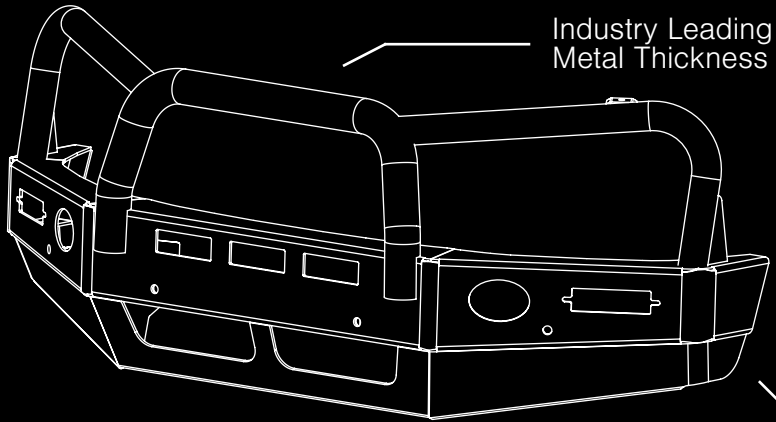
Pages 18-19

Fitting Kit
Finished product

Pages 20-21

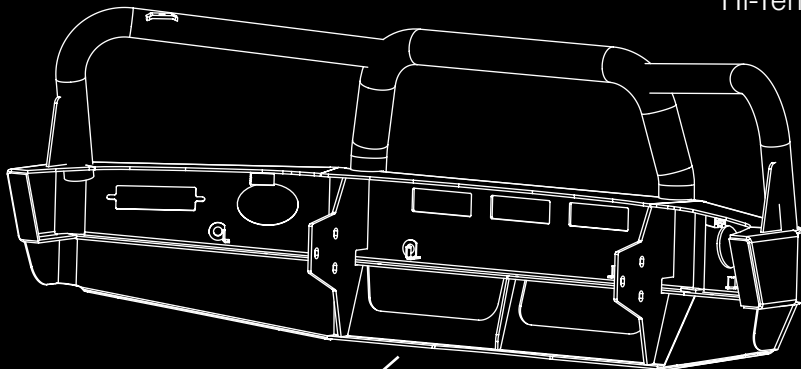
Notes
Warranty Registration

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 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.



EA173SY

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 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 cover.



Stage 3

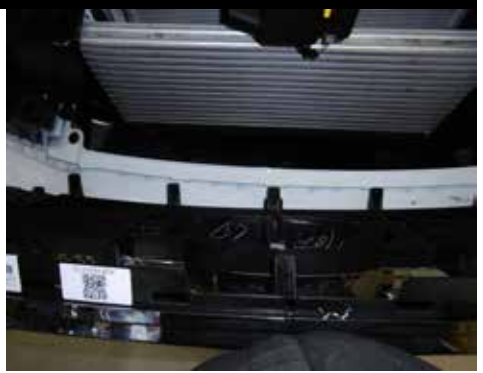
- Under front of guards, remove three (3) plastic screw clips, one (1) T25 torx screw and one (1) 8mm head screw from rear corner of bumper / guard join.
- Pull inner guards away from bumper.
- Disconnect fog lights (left hand side of vehicle).



FORD RANGER PX MKIII

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 four (4) plastic push pull clips and two (2) 10mm head bolts from behind wind deflector.



Stage 6

- Gently pull bumper away from guard to release plastic bumper clips.
- Remove bumper from vehicle.



EA173SY

Stage 7

- 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 8

- Remove foam support two (2) push pull clips.
- Remove two (2) plastic push pull clips from plastic air dam behind the bumper support and two white plastic clips from beside radiator. Remove air dam.
- Remove four (4) 15mm head bolts from front of bumper support.
- Disconnect sonar.
- Remove bumper support.
- Remove sonar harness from bumper support.
- Remove sonar three (3) 10mm head bolts.



FORD RANGER PX MKIII

Stage 9

- Remove plastic radiator air dams two (2) 8mm head bolts per side.
- Detach the four (4) lower bumper supports.



Stage 10

- Drill front hole on inside of chassis rail to suit the sizing of the chassis spacing tube (supplied). Blow filings clear and treat all exposed metal with a rust inhibitor.
- Fit ECB steel winch bracket (supplied) to front of 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 two (2) outer original equipment bolts to front of chassis rails and eight (8) M12 x 40mm bolts, flat washers, spring washers and nuts (supplied).
- Install two (2) M10 x 80mm bolts, flat washers, spacer tubes, spring washers and nuts (supplied) to front hole on side of chassis.



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.

EA173SY

Stage 11

- Using steel mounting bracket as a guide, drill rear hole in chassis to 10mm.
- Enlarge inside of drilled hole to suit sizing of steel spacer tube (supplied).
- **Note: Blow filings clear and treat all exposed metal with a rust inhibitor.**
- Fit two (2) M10 x 80mm bolts, flat washers, spacer tubes, spring washers and nut (supplied).



Stage 12

- Remove nuts and washers from M10 bolts on inside of chassis rails.
- Install winch frame support brackets to rear of winch frame using two (2) M12 x 40 bolts, flat washers, spring washers and nuts (supplied).
- Refit M10 flat washers, spring washers and nuts (supplied) to chassis rails. Align mounts and tighten all bolts.



Stage 13

- 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.

FORD RANGER PX MKIII

Stage 14

- 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 15

- 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 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.
- Run wiring out from under lights ensuring harness is clear from moving parts and sharp edges.

EAF173SY

Stage 17 XL, XLS, XLT

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.



XL, XLS, XLT

WILDTRAK

- Tape outer corners of bumper for protection when cutting and marking.
- Check bumper 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. Mark trim line up under grille ensuring inner mounts are kept as part of headlight sections. Double check for correct alignment. NOTE: Bumper becomes two outer sections only.
- 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.
- Cut grille to suit bumper and picture as shown. Retain both side grille retainer clips.



WILDTRAK

FORD RANGER PX MKIII

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

- 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. 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).



EAF173SY

Stage 21

- Fit sonar unit to ECB sonar mount using three (3) M6 x 20 bolts, flat washers and nyloc nuts (supplied).
- Install ECB sonar mount to inner lower edge of protection bar channel using two (2) M6 x 20 bolts, flat washers and nyloc nuts (supplied).
- Align sonar unit and **tighten all bolts**.
- Using number plate hinge plate as a guide, mark and drill two (2) 6mm holes in front of channel under sonar hole. Fit number hinge plate using two (2) M6 x 20 bolts, flat washers and nuts (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.



Stage 23

- Attach bumper lights to protection bar, Place M6 x 20 bolts, spring washers (supplied) through light mount from inside and attach nut to to. 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 and winch openings. Large side of surround to inside of opening on lights and to rounded side of winch openings.



FORD RANGER PX MKIII

Stage 24

- 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 25

- Fit protection bar to outside of steel mounting bracket using eight (8) M12 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 26

- Connect and check indicator / park lights for correct operation.
- Connect sonar unit and zip tie wiring into position on lower edge of channel.
- Connect and check bumper lights for correct operation.

EAF173SY

Stage 27

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



Stage 28

- 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 29

- 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.



FORD RANGER PX MKIII

Stage 30

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



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. **Insure 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.

Fitting Kit

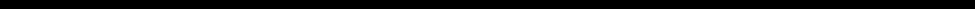
Fitting Kit

1 - ECB Steel winch mount	9 - 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 - Numberplate hinge bracket - A 20mm	2 - M6 nyloc nuts
4 - 10 Nb tube spacers 48mm long	2 - M6 spring washers
1 - Warn control box mount	2 - M6 nuts
1 - Sonar mounting bracket (EAF170_SM3A)	1 - ECB Indicator / Park Light / DRL kit
2 - Large hose Clamps	1 - Quick click kit (IC18FORAIPDH)
20 - M12 x 1.75 x 40mm bolts	1 - Bumper light kit
40 - M12 flat washers	1 - Quick click fog harness (IC10D40S1004ECBH)
20 - M12 spring washers	4 - Bumper light trims
20 - M12 x 1.75 nuts	1 - 2550mm length 6mm clip lock trim
4 - M10 x 1.5 x 85mm bolts	1 - 800mm length 6mm clip lock trim
8 - M10 flat washers	15 - 300mm Zip ties
4 - M10 spring washers	6 - 150mm zip ties
4 - M10 x 1.5 nuts	

Finished Product



Notes



A series of 18 horizontal lines spaced evenly down the page, providing a template for writing notes.

_____ Full Name

_____ Date

Warranty Registration

Contact Details

Name: _____

Address: _____

Product: **EAF173SY** _____

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.

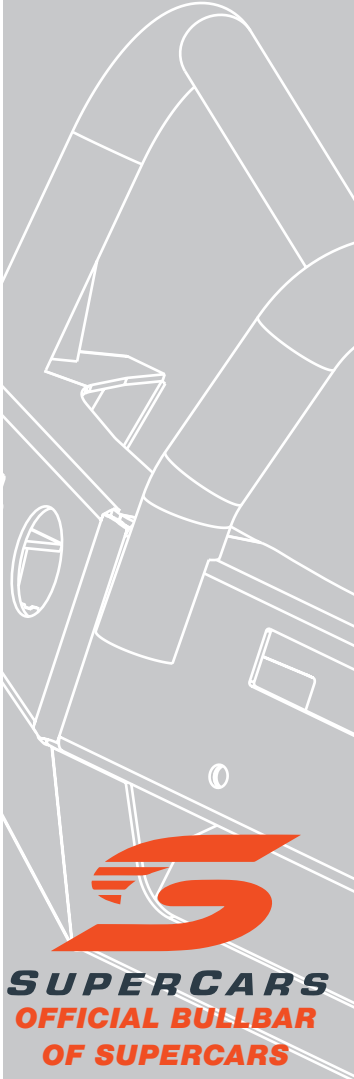
Or Register Online

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



REPLACES: 24.06.19

REVISED: 25.01.21



Strongest Built Australian Made Lifetime Warranty

1800 069 145
www.ecb.com.au

29 Snook St, Clontarf QLD 4019
PO Box 122, Margate QLD 4019