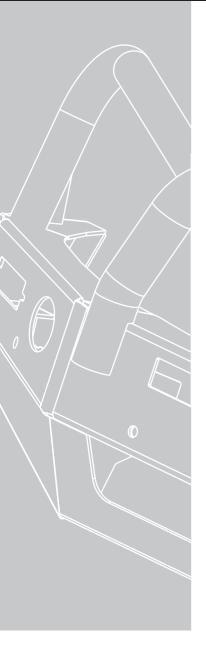


Safer Lighter Stronger

PN: BT35SY





Fitting Guide & Owners Manual

TOYOTA KLUGER 03/2021on

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

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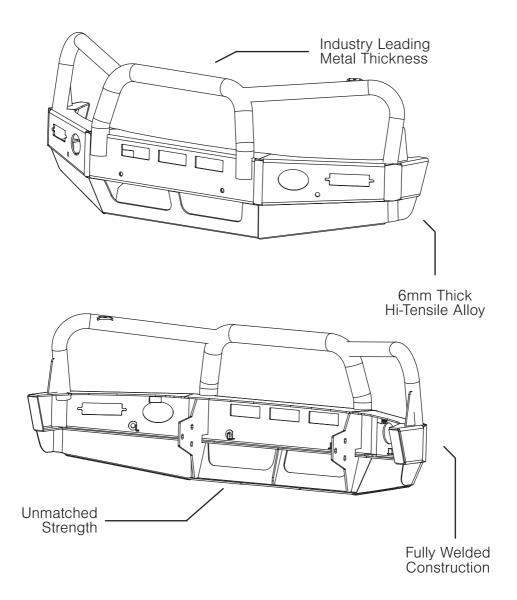
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The Features of ECB



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 utilize 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. In fact 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.



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

 Remove nine (9) push/pull clips from top plastic and remove.



Stage 3

 Remove four (4) 10mm head bolts from top and center mounts. Grille and bumper will be removed in one piece.



Stage 4

 Under front of vehicle, from front ends of inner guards, remove three (3) 10mm head screws (per side).



Stage 5

 From underside of front edge of plastic splash guard/bumper join, remove ten (10) 10mm head screws.



Stage 6

 On center splash guard, remove three
 (3) 10mm head bolts and two (2) push pull clips. Remove center under body guard.



Stage 7

 From rear of flare, remove one (1) 10mm head bolts, two (2) plastic push pull clips.



Stage 8

- Pull inner guards rearward away from front of bumper and wheel arch to allow access to rear of flare.
- Disconnect bumper sensor and camera wiring loom from behind bumper on drivers side. Unclip wiring from rear of fog light assembly (per/side).



- Unclip flare to second clip past guard/bumper join.
- Lower clips are accessed from rear of bumper whilst top two clips are push only style clips which need to be carefully levered out.



Stage 10

- Gently unclip bumper from retaining clips where bolts are removed from inner guard and pull guard sides outwards to release from guard.
- · Carefully remove bumper from vehicle.



Stage 11

- Remove polystyrene infill from bumper supports.
- From passenger side of vehicle, remove transmission cooler shroud, three (3)
 10mm head bolts. Retain for refitment.

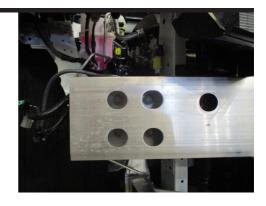


- From top of alloy bumper support, remove wiring and allow to hang.
- · This will be refitted later.



Stage 13

- Remove top alloy bumper support, eight (8) 14mm head bolts, accessible from holes in front of support. Retain for refitment.
- Remove lower alloy bumper support, two
 (2) 12mm head nuts. Retain for refitment.



Stage 14

- Using a step drill or similar, enlarge outer hole in rail to allow access for tube spacer.
- Blow filings clear and treat all exposed metal with a rust inhibitor



- Fit steel mounting brackets (supplied) onto the end of chassis rails.
- In rear hole previously enlarged fit M10
 x 1.5 x 140mm bolt, flat washers, tube
 spacer and nyloc nut (per/side)(supplied).
 (FINGER TIGHT AT THIS STAGE).



Stage 16

- Refit alloy bumper support using original equipment bolts.
- · Align mounts and tighten all bolts.



Stage 17

- Using steel mounting bracket as a guide drill a 10mm hole into under side of top alloy support per/side. Blow filings clear and treat all exposed metal with a rust inhibitor
- Attach using M10 x 1.25 x 35mm bolt, spring washer, flat washer, steel spacer washer and nut and washer on wire (per/side) (supplied).
- · Tighten all bolts.
- Refit lower alloy bumper support using original equipment nuts.



- Using steel mount as a guide, mark and cut shroud on transmission cooler to fit around steel mount.
- · Refit transmission shroud at a later stage.



Stage 19

- Remove bumper sensors from bumper. Install sensor spacer to top of sensor and relocate to plastic sensor mounts in protection bar.
- Remove fog lights and tow point trims in bumper to allow access for wiring to get to rear of protection bar.

 Disconnect wiring from rear of bumper and feed wiring out through tow hole for inner wiring and fog light hole for outer wiring. Wiring is not extended.



Stage 20

- Remove camera from behind grille and relocate to protection bar using two (2) self tapping screws (supplied).
- Extend camera wiring with solder joiners and 160mm wire extensions (supplied).





- · Refit wiring to top of alloy support.
- Trim polystyrene infill for access to tie down point on steel mounting bracket and refit.
- DO NOT FIT LOWER POLYSTYRENE AT THIS STAGE.



Stage 22

 Using steel mounting bracket measurement as a guide, mark and trim lower grille for access to tie down point and alloy mount to fit through to steel mount.



Stage 23

- Refit bumper as per reverse steps of 2 to 10.
- · Connect all wiring.



Stage 24

 Splice ECB wiring harness into wiring harness behind headlight using cable locks (supplied).
 Ensure harness is clear of sharp edges and moving parts.



Pin out information is correct on donor vehicle at the time of development.

Please check all connections are correct for the vehicle you are working on.





	6 Pin Plug	
Pin number	Colour	Use
2	Lt Green	Parking light
3	Purple	DRL
4	White/ black	Earth
	2 Pin Plug	
Pin Number	Colour	Use
1	Blue	Indicator

Stage 25

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



Stage 26

 Fit ECB LED indicator / park lights into protection bar as per instructions supplied with the LED indicator kit.
 NOTE: Ensure park light is to top.

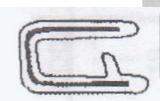


- Attach ECB bumper lights to protection bar. Place M6 x 20 bolts, spring washers (supplied) through light mount from inside and attach nut to top. Slide assembly into light mount in Protection Bar and centralise light to hole. TIGHTEN FIRM ONLY.
- Install bumper light surrounds (supplied) to bumper light openings. Large side of surround to inside of opening.



Stage 28

- Attach 6mm clip lock trim (supplied) to top of ECB protection bar. NOTE: Trim off lower edge on an angle so trim will sit flush with end of protection bar.
- Attach 3mm clip lock trim (supplied) to tow point openings in sidde skirts. Place join to top and seal with silicon for best results.





Stage 29

- Fit protection bar onto steel mounting brackets using M12 x 1.25 x 40mm bolts, flat washers, spring washers and nuts (supplied).
- · Access bolts from under side of bumper.



- Refit transmission shroud with original bolts.
- · Refit lower polystyrene.
- Refit under body guard with original bolts and clips.



Stage 31

- · Connect all electrical equipment and check for correct operation.
- Road test vehicle to ensure all safety systems are working correctly.

Final Checks

Ensure Number Plate is Clearly Visible

Note: When fitting/refitting the license plate to the vehicle, ensure there is no obstruction to license plate vision in accordance with local authorities. If required relocate license plate to an alternate location.

Further VFPS Notes

- Do not attach VFPS to the vehicle using anchorages not intended for this purpose (e.g. engine mounting bolts).
- 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 steel mounting brackets	2 - M6 spring washers
2 - Tube spacers 10NB 112mm long	2 - M6 nuts
4 - 40 x 40 x 4mm Spacer washer 13mm holes	2 - 8-18 x 12 Self drilling screws
6 - M12 x 1.25 x 40mm Bolts	1 - Indicator / DRL / park light kit
12 - M12 Flat washers	8 - Cable locks
6 - M12 Spring washers	1 - Bumper light kit
6 - M12 Nuts	1 - Quick / click bumper light harness
2 - M10 x 1.5 x 140mm Bolts	2 - Bumper light trims
2 - M10 x 1.25 x 35mm Bolts	4 - Parking sensor plastic inserts (ICSENS 21KLU INS)
6 - M10 Flat washers	4 - Extension wires 150 long
2 - M10 Spring washers	8 - solder joiners
2 - Nyloc nuts	1 - 6mm Clip lock 2600mm long
2 - M10 x 1.25 Nut and washer on 300mm wire	1 - Convoluted tubing 500mm long
2 - M6 x 20 bolts	

Finished Product







Warranty Registration

Name:	
Address	:
Product	BT35SY
Email:	
Phone:	
	der Number: this on the silver label product.
	this registration you automatically subscribe to ECB's mail our bscribe at any time.
For Online registration I	ter Online gistration please go Online to www.ecb.com.au/warranty- you have any questions please contact our national office on ww.ecb.com.au.

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