



**Lighter
Stronger
Better!**

**Strongest Built
Australian Made
Lifetime Warranty**

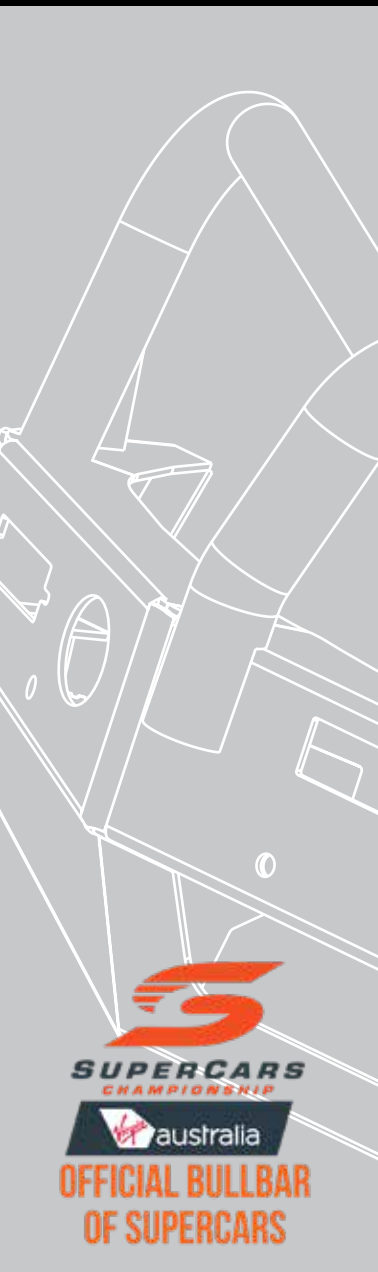
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Fitting Guide & Owners Manual

**Ssangyong Musso
Q200 10/18on**

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



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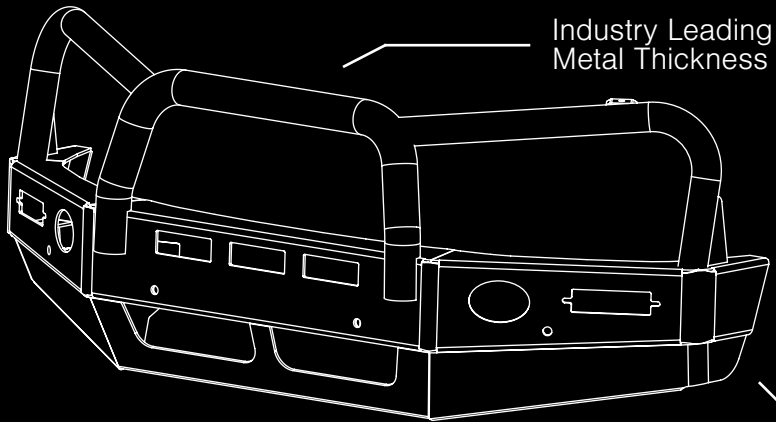
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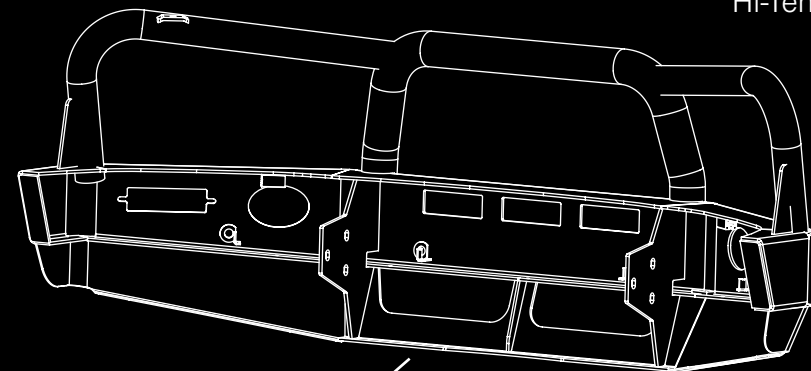
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Notes

The Features of ECB



6mm Thick
Hi-Tensile Alloy



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.



BIG TUBE BAR

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.



Stage 2

- Remove top radiator support trim twelve (12) push/pull clips and three (3) plastic push clips on weather strip (per side).
- On top of grille remove four (4) 10mm head bolts and two (2) push pull clips.



Stage 3

- From arch remove three (3) push/pull clips and one (1) Phillips head screw (per side).
- From under bumper remove ten (10) push pull/clips.
- Uncip wheel arch moulding (per side) and pull out gently on rear wing to release bumper from locator and forward to release under headlight. Unplug wiring loom from passenger side as removing. Remove bumper.



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Stage 4

- Remove plastic under body guard by removing four (4) 12mm head bolts.



Stage 5

- Remove two (2) 12mm head bolts from oil cooler line behind bumper support. Allow to hang
- Remove two (2) 12mm head bolts from side of chassis rail (per side), where bumper support meets.
- Remove bumper support.



Stage 6

- Remove lower section of bumper.
- Remove passenger side fog light, bumper sensors and wiring loom from plastic bumper.

NOTE: Be careful not to loose the silicon rings on the front of the parking sensors. These insulate the sensor from the bumper so are extremely important when refitting to protection bar.



BIG TUBE BAR

Stage 7

- Fit sensors in holes in protection bar and secure using one (1) cable ties per sensor. Attach firmly only. Do not overtighten.
- Secure sensor wiring loom to protection bar using cable ties (supplied) into holes in back of bar.
- **DO NOT OVERTIGHTEN**



Stage 8

- Remove camera and housing from bumper.
- Relocate camera into camera mount in the back of bar and secure using two (2) M5 x 12 bolts, flat washers and nyloc nuts (supplied).



Stage 9

- Refit bumper to vehicle, reverse of stages 1-4.



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Stage 10

- Trim lower section of bumper sides and wheel arch mould parallel to and 45mm from lower edge.
- Ensure that the trim on the wheel arch is below the lower clip.



Stage 11

- Enlarge inside holes of chassis rail to enable steel spacer tube to be fitted.

Blow all filings clear and treat with a rust inhibitor.



Stage 12

- Fit ECB steel mounting bracket (supplied) onto chassis rails using four (4) M12 x 1.75 x 100 bolts, flat washers, spacer tube, spring washers and nuts (supplied) in side holes.
- Fit two (2) M12 x 35 bolts, flat washers, spring washers and 40 x 50 x 4mm washer plate (supplied in rear holes).
- Ensure mount is level and **TIGHTEN ALL BOLTS.**



BIG TUBE BAR

Stage 13

- Attach oil cooler pipe onto ECB Steel mounting bracket using M6 x 25 bolts, spring washers and flat washers (supplied) into nutserts in bracket.
- **DO NOT OVERTIGHTEN BOLTS.**



Stage 14

- Fit ECB LED indicator / park lights into protection bar as per instructions supplied with LED indicator / park light kit. **NOTE: Ensure light is up the correct direction**



Stage 15

- 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.
- Gently insert round surround (supplied) into oblong hole in skirt. Wider edge to outer edge of hole.
- If parking sensors are not fitted install 20mm blanking plugs (supplied) into hole by gently tapping in with rubber mallet.



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Stage 16

- Fit ECB protection bar onto steel mounting bracket using four (4) M12 x 1.5 x 40mm bolts, flat washers, spring washers and nuts (supplied) (per side)
- Connect wiring loom for sensors through fog light holes.
- Connect camera wiring loom.
- Align bar with vehicle and **TIGHTEN ALL BOLTS**. Refer to Photos on page 14.



Stage 17

- Fit ECB alloy centre under body guard (supplied) using four (4) original bolts with 2 alloy washers (supplied) and three (3) M6 x 25 bolts, flat washers and nyloc nuts in front of guard.



Stage 18

- Fit ECB alloy side guards (supplied) using five (5) M6 x 25 bolts, flat washers and nyloc nuts (supplied) (per side).
- Trim plastic liner level with under body guard and secure with two (2) M6 x 25 bolts, flat washers and nyloc nuts (supplied).



BIG TUBE BAR

Stage 19

- Connect indicator park lights.
 - 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 to cut outs.
 - **CHECK OPERATION of all lights, parking sensors and camera.**
-



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. **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.

Installation Kit

1 - ECB Steel mounting bracket (YEASM31)	38 - M6 flat washers
1 - ECB Centre Underbody guard (EASM31_U6A)	2 - M6 spring washers
1 - Pair ECB side under body guards (EASM31_US3A)	17 - M6 nyloc nuts
4 - 13id x 17od x 56mm spacer tubes	2 - M6 nuts
2 - 40 x 50 x 4mm steel washer plate (EASM31_BP4M)	2 - M5 x 16 bolts
2 - Round 40 x 6mm alloy washers (ROUND40X10X6A)	4 - M5 flat washers
4 - M12 x 1.75 x 100mm bolts	2 - M5 nyloc nuts
8 - M12 x 1.5 x 40mm bolts	1 - ECB LED Indicator / Park / DRL light kit
2 - M12 x 1.5 x 35mm bolts	8 - Cable locks
14 - M12 spring washers	1 - Fog light kit
28 - M12 flat washers	1 - Quick Click kit (IC10D40S1004ECBH)
10 - M12 x 1.5 nuts	1 - 2400mm length 6mm clip lock trim
4 - M12 x 1.75 nuts	4 - Fog light surrounds
19 - M6 x 25 bolts	14 - 150mm cable ties
2 - M6 x 20 bolts	4 - 20mm round plugs (ICINSERT20)

Finished Product



Warranty Registration

Contact Details

Name: _____

Address: _____

Product: **EASM31SY** _____

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

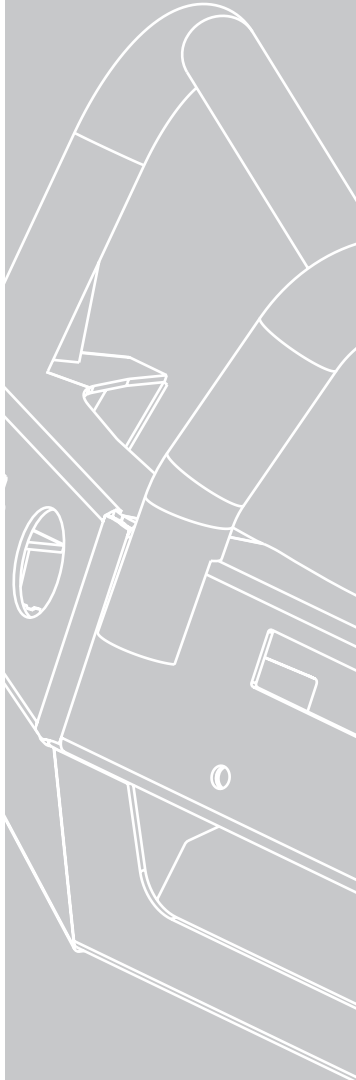
For online registration please go online to www.ecb.com.au/TBC. If you have any questions please contact our national office on 1800 069 145 or www.ecb.com.au.



This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

REPLACES: N/A
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