



**Lighter
Stronger
Better!**

**Strongest Built
Australian Made
Lifetime Warranty**

PN: NBSM31SY



Fitting Guide & Owners Manual

Ssangyong Musso

Q200 10/18on

76mm NUDGE BAR

VEHICLE FRONTAL PROTECTION SYSTEM (VFPS)

FOR AIR BAG & ADR COMPLIANT VEHICLES



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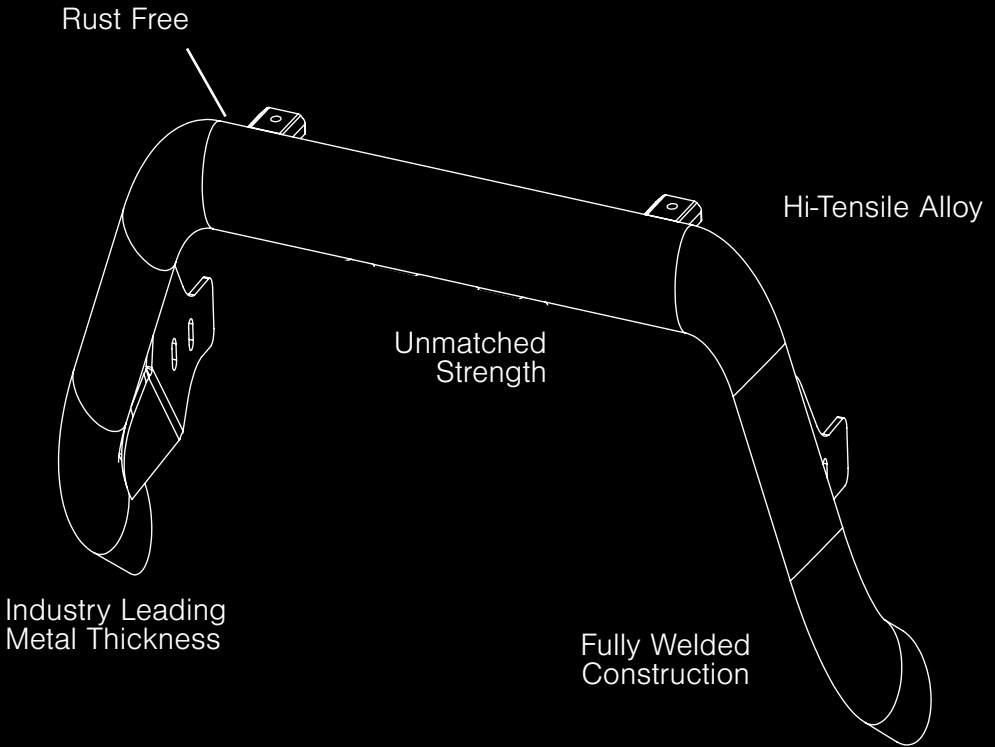
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The Features of ECB



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 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.



Ssangyong Musso Q200 10/18on

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) 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.
- Unclip wheel arch molding (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.



76mm Nudge Bar

Stage 4

- Remove two (2) 14mm head bolts from side of bumper support (per side).
- 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.



Stage 6

- On passenger side attach steel mounting bracket (supplied) using two (2) M10 x 1.5 x 120mm bolts, flat washers, 25mm spacer tube, spring washer and nut (supplied) in rear holes. In front top hole use one (1) M10 x 1.5 x 30mm bolt and washer on wire, flat washer, spring washer and nut (supplied).



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Stage 7

- Using steel mounting bracket (supplied) as a guide, drill lower hole to 10mm. **Blow all filings clear and treat with a rust inhibitor.**
- Install M10 x 1.5 x 70mm bolt, flat washer, spring washer and nut (supplied) **FINGER TIGHTEN ONLY.**



Stage 8

- On drivers side attach steel mounting bracket (supplied) using two (2) M10 x 1.5 x 120mm bolts, flat washers, 25mm spacer tube, spring washer and nut (supplied) in rear holes. In front lower hole use one (1) M10 x 1.5 x 70mm bolt, flat washer, spring washer and nut (supplied).



Stage 9

- Using steel mounting bracket (supplied) as a guide, drill front top hole to 10mm. **Blow all filings clear and treat with a rust inhibitor.**
- Install one (1) M10 x 1.5 x 30mm bolt and washer on wire, flat washer, spring washer and nut (supplied). **FINGER TIGHTEN ONLY.**



Ssangyong Musso Q200 10/18on

Stage 10

- Centralise ECB steel mounting brackets to front of vehicle and measure inside of alloy protection bar to set ECB steel mounting bracket in correct position.
- Align and **tighten bolts**.



Stage 11

- Remove foam pad from rear of plastic bumper.
- Mark and trim foam pad to fit between steel mounting brackets.
- Refit foam pad to rear of plastic bumper.



Stage 12

- Using template (supplied) as a guide trim bumper to fit over steel mounting brackets.



76mm Nudge Bar

Stage 13

- Disconnect center parking sensors and remove from bumper.
- Extend center parking sensors using 300mm wire and wire soldier joiners (supplied). Run wiring through parking sensor holes in bumper as rejoining.
- Cover wiring with split loom tube (supplied).



Stage 14

- Place parking sensors in alloy sensor mounts on nudge bar. Secure with two (2) zip ties (supplied) (per sensor).



Stage 15

- Remove camera and housing from bumper.
- Relocate camera into Nudge Bar and secure using two (2) M5 x 12 bolts, flat washers and nyloc nuts (supplied).



76mm Nudge Bar

Stage 16

- Refit bumper onto vehicle in reverse of steps 2, 3 and 4.



Stage 17

- Fit Nudge Bar onto steel mounting brackets using two (2) M10 x 1.5 x 40mm bolts, flat washers, spring washer and nuts (supplied) (per side).
- Align Nudge Bar with vehicle and **TIGHTEN ALL BOLTS.**



Stage 18

- Connect Camera and Sensor wiring.
- Install camera cover to camera housing using two (2) 8g x 12 self drilling screws.
- Check for correct operation.

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 - Pair ECB steel mounting brackets - (YNBSM31SY)	12 - M10 spring washers
	12 - M10 x 1.5 nuts
1 - Camera cover (EASM31SY)	2 - M5 x 12 bolts
4 - 10NB x 25mm spacer tubes	4 - M5 flat washers
4 - M10 x 1.5 x 120mm bolts	2 - M5 nyloc nuts
2 - M10 x 1.5 x 70mm bolts	2 - 8g x 12 PK self drilling Screws
4 - M10 X 1.5 x 40mm bolts	2 - 300mm lengths 5-core wire
2 - M10 x 1.5 x 30mm bolt and washer on 300mm wire	20 - Solder joiners
	4 - 150mm Cable ties
22 - M10 flat washers	2 - 300mm lengths convoluted tubing

Finished Product





Warranty Registration

Contact Details

Name: _____

Address: _____

Product: _____

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.

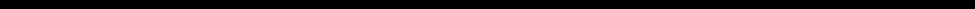
Or Register Online

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



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Margate QLD 4019

Notes

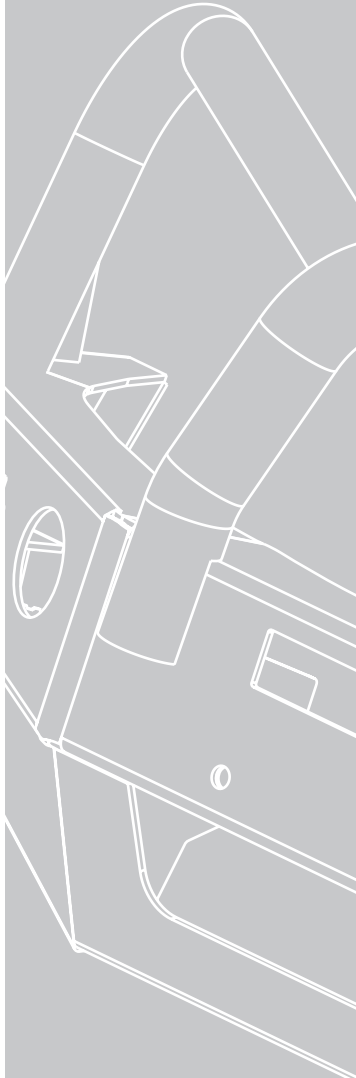


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 Full Name

 Date

REPLACES: N/A
REVISED: 26.02.19



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www.ecb.com.au

Strongest Built Australian Made Lifetime Warranty

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