



**WORLD'S BEST  
ALLOY BULLBARS**

**East Coast Bullbars (ECB Pty Ltd)**

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**BHU100SY**

REPLACES: 05.09.17

REVISED: 12.01.18

## **FITTING INSTRUCTIONS**

### **HYUNDAI TUSCON MY17- BULL BAR VEHICLE FRONTAL PROTECTION SYSTEM (VFPS) FOR AIR BAG & ADR COMPLIANT VEHICLES**

Check installation hardware before commencing.

**Caution: Bolt heads must be at the radiator side of the mounts.**

Note: Where vehicle does not include parking sensors, blanking plugs have been included to fill holes in Protection Bar.

1. Park the vehicle on level ground and apply the hand brake. Lift bonnet.
2. Remove four push pull clips and two 10mm head bolts from the top of the grill filler panel. **See figure 1.**
3. Remove three plastic clips from the front of the wheel arch (each side) and one Philips screw from bumper wing to guard (each side). Remove two 10mm head bolts from underside of bumper in the centre. Pull out on the rear of the bumper bar wing to un-clip the retainer. Disconnect the light plugs and pull forward to release the bumper from the vehicle. **See figure 2.**
4. Remove foam impact member from the bumper support. Disconnect indicator and parking lights on vehicle. Install ECB quick click wiring harnesses (supplied).
5. Remove the Sonar and housing from the bumper support. **See figure 3**
6. Place the Sonar unit and the Perspex cover AS SHOWN onto the ECB steel mounting bracket (supplied) and fasten using M6 x 1.0 x 50 bolts, flat washers, nuts and nyloc nuts (supplied) and two M8 x 1.5 x 35 bolt, spring washer and flat washer (supplied). **See figure 4 & 5.**
7. Remove the top inner 12mm head bolt from the crash can, each side.
8. Remove the vehicle underbody guard by releasing sixteen 10mm head bolts. **See figure 6.**
9. Place the ECB paper template onto the front of the chassis rail, use the template as a guide to drill a 10mm hole into the radiator support panel. **Blow filings clear and treat all exposed metal with a rust inhibitor. See figure 7.**
10. Fit the lower support plate onto the bottom of the chassis rail and use it as a marking template. Drill two holes through the underside of the rail for the fasteners then drill another hole to the rear large enough to fit the supplied bolt/washer on wire through. **Blow filings clear and treat all exposed metal with a rust inhibitor.**
11. Fit the upper support plate (supplied) onto the top of the chassis rail using it as a guide drill a 10mm hole into the rail and fasten using M10 x 35 x 1.5 bolt on wire, flat washers, spring washers and nuts (supplied). Fit M10 x 35 x 1.5 bolts, flat washers spring washers and nuts (supplied) to the radiator support panel each side. **See figure 8.**
12. Fasten the upper and lower support plates using M10 x 40 x 1.5 bolts/washer on wire, flat washers, spring washers and nuts (supplied), **tighten all bolts. See figures 9 & 10.**
13. Remove the lower inner 12mm bolt from the crash can each side.



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14. Place the ECB mounting bracket onto the front of the cross member and lightly fasten using rear support plates (two per side) on each side, M10 x 70 x 1.5 bolts, flat washers, spring washers and nuts (supplied). Align the reinforcement plates (Z shaped plates) from the crash can mount to the rear of the steel chassis mount upper and lower outer holes. Fasten using M10 x 35 x 1.5 bolts, flat washers, spring washers and nuts (supplied) on the chassis mount side then fasten using M8 x 30 x 1.5 bolts, flat washers, spring washers (supplied) into the captive nut on the vehicle body side.  
**Note:** Use spring washers only (NO flat washers) on outer holes of front plate. Be sure all fasteners are fitted before aligning and tightening. **Note:** Bolt heads must be at the radiator side of the mounts.  
Align central to vehicle and tighten all fasteners. **See figure 11.**
15. Unclip the wiring loom and re-route to enable enough length to reach the Sonar unit. Ensure sonar unit is mounted parallel to ECB mounting bracket cross tube and front face is vertical.
16. Remove the OE foglights and discard. Remove the bumper sensors and wiring loom from the rear of the bumper and place into the rear of the Protection bar. Remove the plastic plug cap from the end, cable tie into position. **See figures 12 & 13.**
17. Fit ECB LED indicator / park lights into protection bar as per instructions supplied with the LED indicator kit. **NOTE: Ensure park light is to outside.**
18. 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 (supplied) to fog light openings, large side of surround to inside of opening on lights. **See figure 14 & 15.**
19. 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. **See figures 16, 17 & 18.**
20. Attach 6mm clip lock trim (supplied) to skirt area of ECB protection bar. **NOTE:** Trim off lower edge on an angle so trim will sit flush with channel of protection bar.
21. Remove the upper grill from the bumper and the plastic number plate mount from the front face of the bumper. Discard the number plate mount only.
22. Use the paper template supplied to mark and trim the bumper to allow the steel mounts to protrude through the front face. **See figure 19.**
23. Refit the bumper in the reverse of steps 2 & 3.
24. Fit the protection bar to the outside of the steel mounting bracket and fasten using the supplied M12 x 1.75 x 40 bolts, flat washers, spring washers and nuts (supplied). Align protection bar with the vehicle and **tighten all bolts.** **See figures 20 & 21.**
25. Connect ECB Quick Click fog light and indicator /parking lights wiring harnesses (supplied) between the vehicle harness and indicator / park lights on vehicle. Connect the sensor wiring. Run wiring out from under lights ensuring clearance from sharp edges and moving parts
26. Refit the grill back into position using the original fasteners.
27. Test the sensors for correct operation and refit the underbody guard with original fasteners.



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### **ENSURE NUMBER PLATE IS CLEARLY VISABLE**

**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:**

- 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.
- Do not remove the plaque or label from the VFPS.
- Do not modify the structure of the VFPS in any way.
- No accessory or fitment should project forward of the VFPS forward profile.
- ENSURE THESE INSTRUCTIONS ARE LEFT WITH VEHICLE OWNER AND/OR OPERATOR.**

### **IMPORTANT INFORMATION**

Periodically check bolts and nuts for correct tightness, especially if travelling on rough roads

#### **FITTING KIT**

1 – ECB Steel Mounting Bracket	7 – M8 flat washers
4 – Side support brackets (BHU100SY_B6MS)	3 – M6 x 50 x 1.0 bolts
1 - Pair – Upper support bracket spacers (BHU100SY_C8MS)	2 – M6 x 20 x 1 bolts
1 – Pair Lower support bracket spacers (BHU100SY_B8MS)	12 – M6 flat washers
4 – Chassis mount plates (BHU100SY_C6MS)	2 – M6 spring washers
1 – Sonar mount (BHU100SY_A4MS)	2 – M6 nuts
6 – M12 x 40 x 1.75 bolts	2 – M6 x 1.0 nut on 100mm long wire
12 – M12 flat washers	9 – M6 x 1.0 nuts
6 – M12 spring washers	3 – M6 nyloc nuts
6 – M12 x 1.75 nuts	1 – Indicator / Park / DRL kit (ICLED105ECB)
10 – M10 x 35 x 1.5 bolts	8 – Cable locks
6 – M10 x 40 x 1.5 bolt & washer on 300mm long wire	1 – Fog light kit
8 – M10 x 70 x 1.5 bolts	1 – ECB Quick Click fog kit (IC10D40S1004ECBH)
38 – M10 flat washers	4 – 22mm black plastic blanking plug (ICINSERT22)
24 – M10 spring washers	1 – 2400mm length 6mm clip lock
24 – M10 x 1.5 nuts	2 – 550mm length 6mm clip lock
7 – M8 x 30 x 1.5 bolt	2 – Fog light surrounds
7 – M8 spring washers	1 – Perspex sonar cover (NBF160SY_A2PL)



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Figure 1



Figure 2



Figure 3

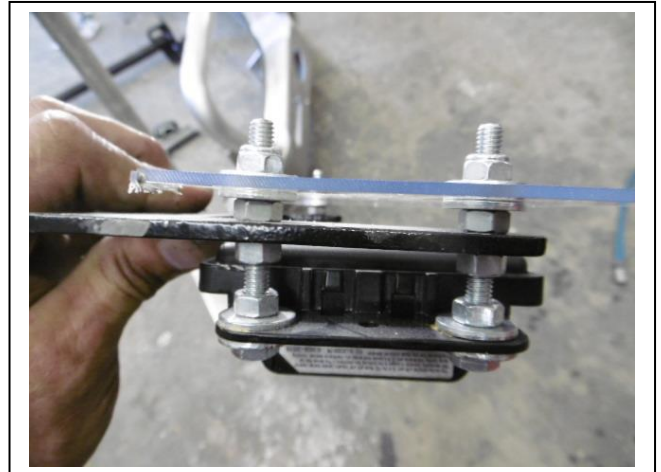


Figure 4



Figure 5



Figure 6



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Figure 7

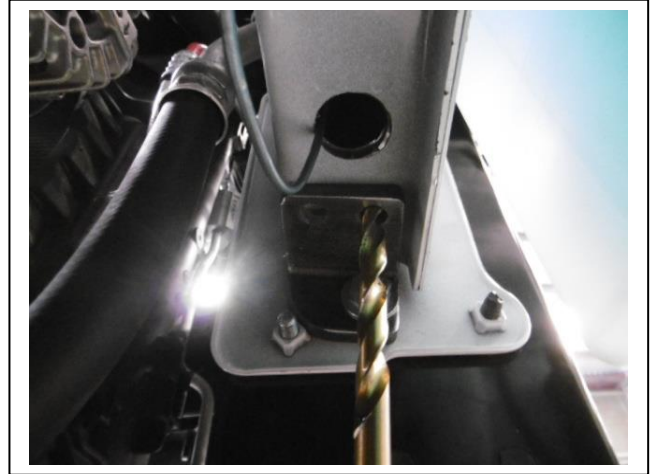


Figure 8

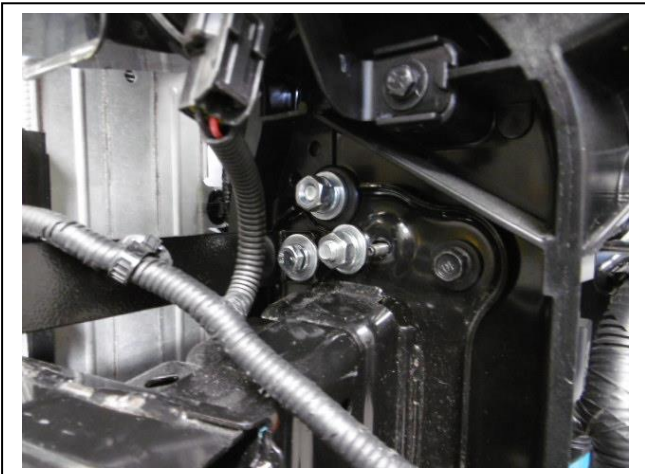


Figure 9



Figure 10

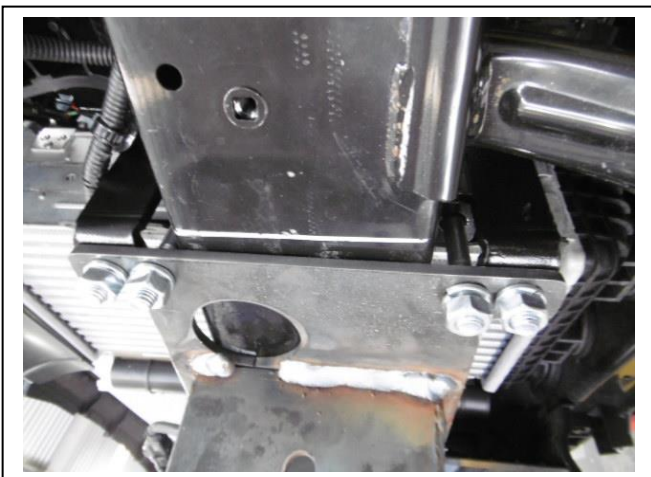


Figure 11



Figure 12



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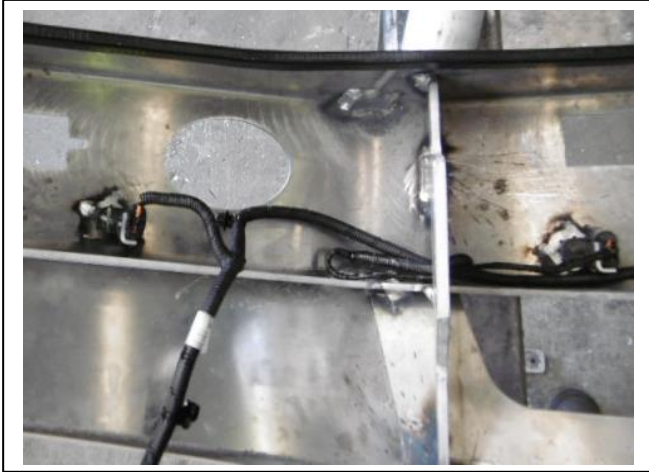
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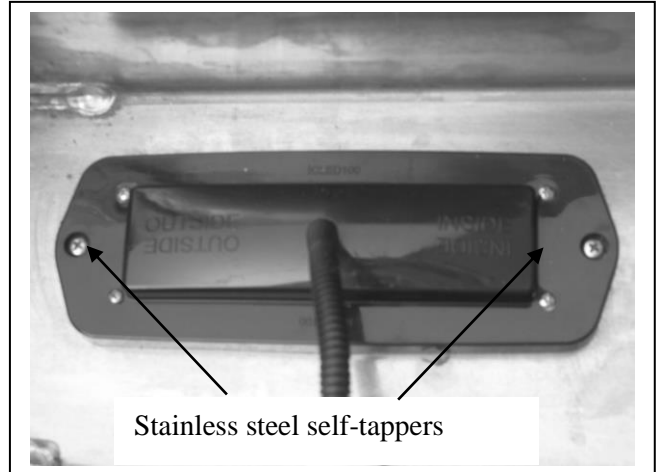
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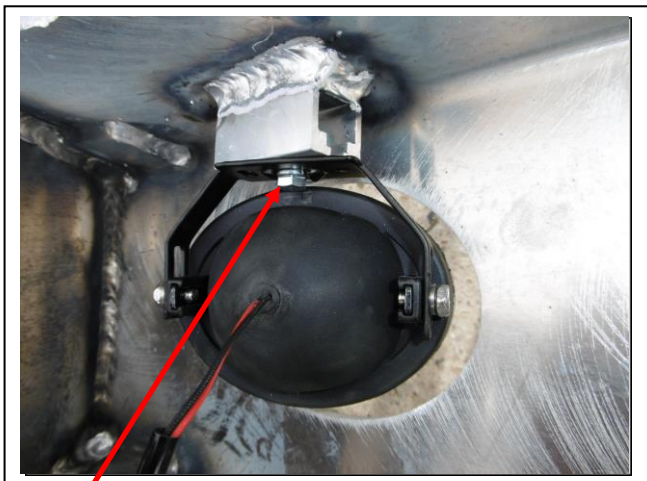


**Figure 13**



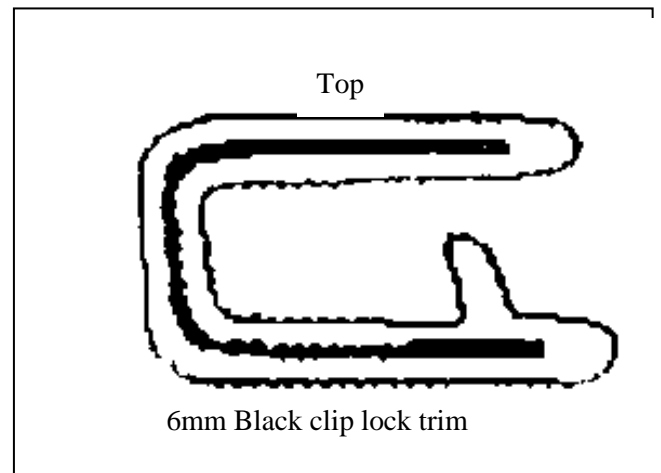
Stainless steel self-tappers

**Figure 14**



M6 bolt

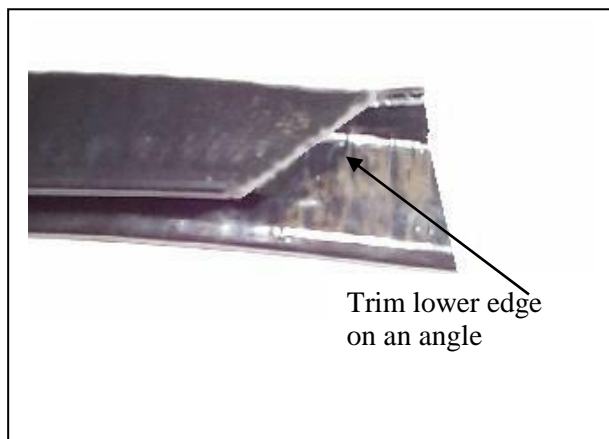
**Figure 15**



Top

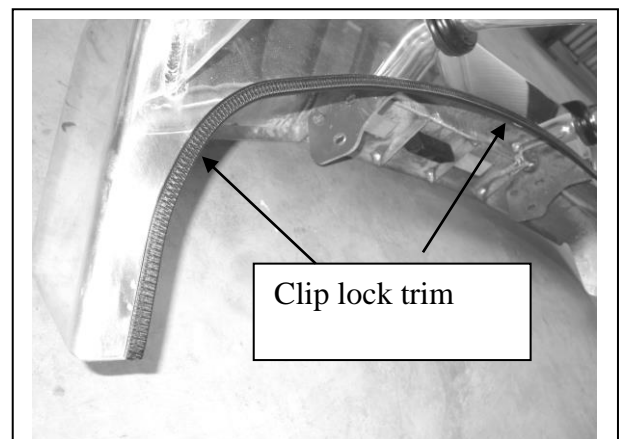
6mm Black clip lock trim

**Figure 16**



Trim lower edge  
on an angle

**Figure 17**



Clip lock trim

**Figure 18**



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**Figure 19**



**Figure 20**



**Figure 21**



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**We value your comments**

Dear Fitter,

ECB would like to know how you went with the installation of this product. We value your comment and may need to contact you to clarify some details so please complete your contact details clearly.

We would appreciate if you could complete as many of the following details as possible.

<b>Your Name:</b>	<b>Your contact No.</b>
<b>Product Part No.</b>	<b>Product Invoice No.</b>
<b>Product Description:</b>	<b>Make, model, and year of vehicle:</b>
<b>Product Work Order No.</b>	<b>Company your from/Company product purchased from:</b>

**Date of Fitment:** \_\_\_\_/\_\_\_\_/\_\_\_\_

Was the fitting hardware supplied complete?

Yes

No

If no what was not supplied

\_\_\_\_\_  
\_\_\_\_\_

Did the installation go well?

Yes

No

Please provide comments

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please draw diagrams if you need to.

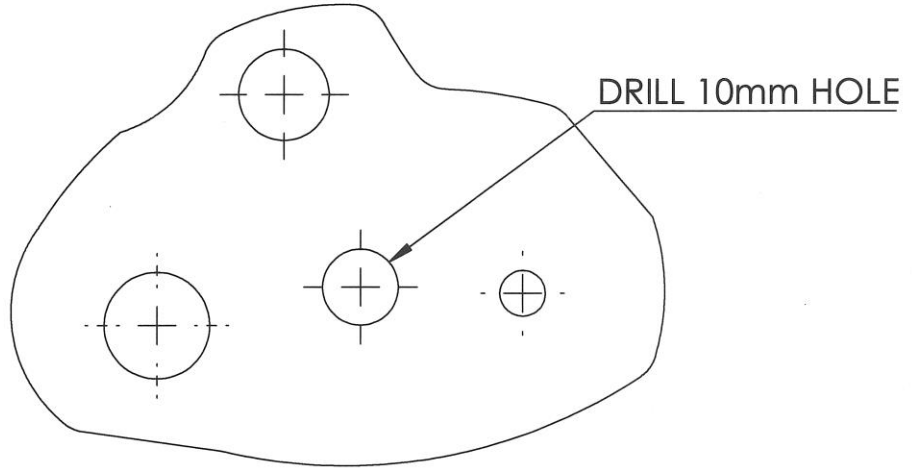
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**Fax to**  
(07) 3283 1168

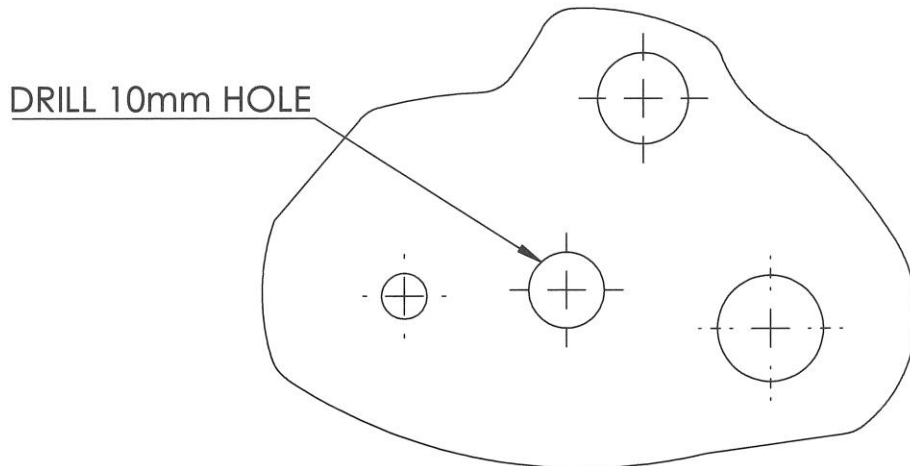


75mm SCALE CHECK

**BHU100SY P/S DRILL TEMPLATE**



**BHU100SY D/S DRILL TEMPLATE**





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BUMPER SHAPE LINE

TRIM LINE

OE SENSOR OPENING

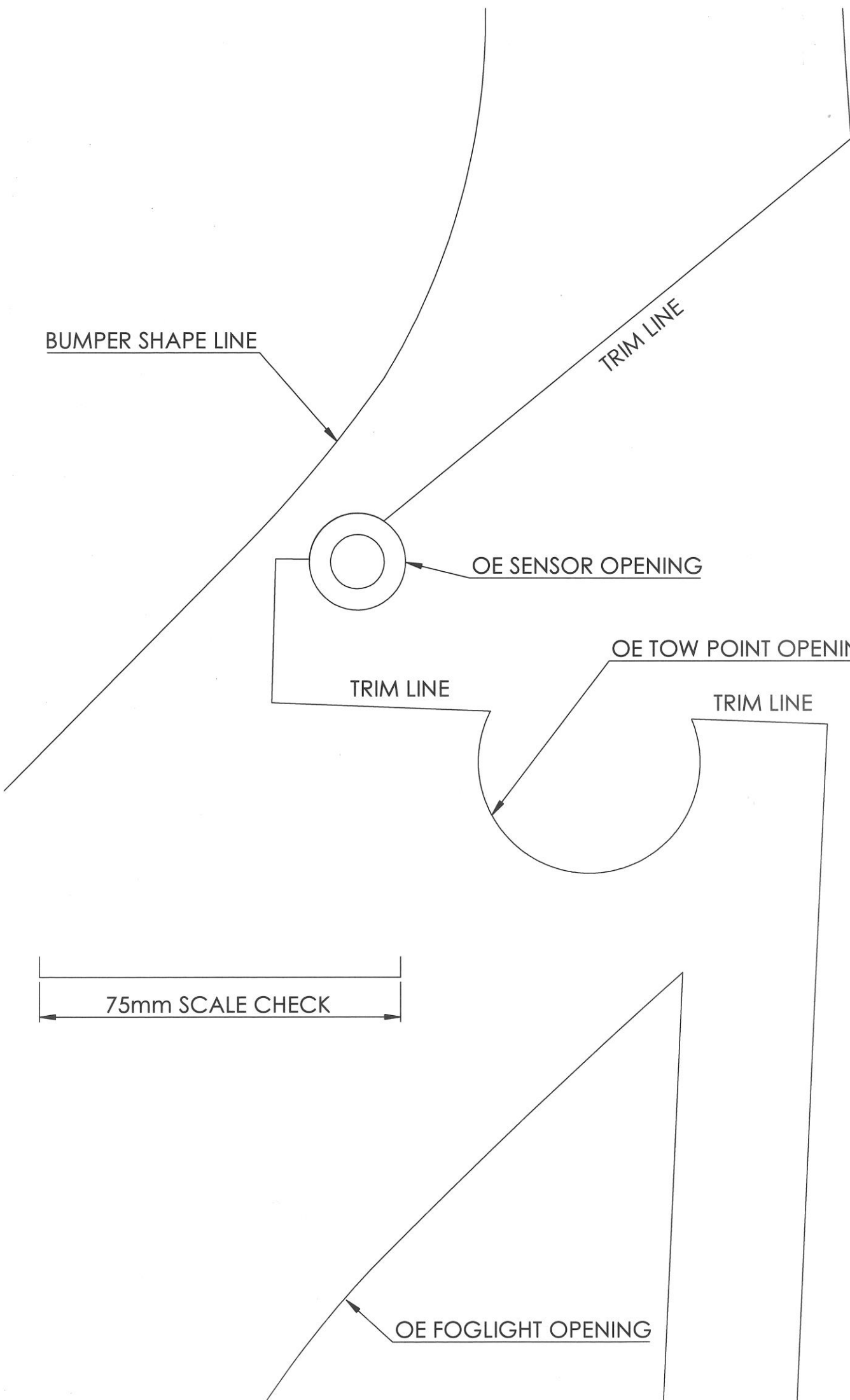
OE TOW POINT OPENING

TRIM LINE

TRIM LINE

75mm SCALE CHECK

OE FOGLIGHT OPENING





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## DESPATCH CHECKLIST BHU100SY

Work Order #		<b>See other side of this page for photos of all mounts</b>
Finish:		
Transport:		
Due Date:		

- OC....1 – Steel Mounting Bracket (two M8 nutserts in front of tube)
- BK....4 – Side support brackets (Z shaped) (BHU100SY\_B6MS)
- BK....1 – D/S Upper support brackets (BHU100SY\_C8MS)
- BK....1 – P/S Upper support brackets (BHU100SY\_C8MS)
- BK....1 – D/S Lower support brackets (BHU100SY\_B8MS)
- BK....1 – P/S Lower support brackets (BHU100SY\_B8MS)
- BK....4 – Chassis mount plates (BHU100SY\_C6MS)
- BK....1 – Sonar mount (BHU100SY\_A4MS)
- BK....1 – Bolt Kit
- BK....1 – Perspex sonar cover (NBF160SY\_A2PL) (1 angled corner)
- BK....1 – LED ECB indicator / DRL / park light kit. (ICLED105ECB)
- BK....1 – Fog light kit
- BK.... 1 – Quick Click Kit (IC10D40S1004ECBH)
- BK....1 – 2400mm length 6mm clip lock
- BK....2 – 550mm length 6mm clip lock
- OC....2 – ECB Overrides – **Fitted to Bar**
- OC....3 – 6mm Air Vents – **Fitted to Bar**

\_\_\_\_\_/\_\_\_\_\_  
Wrapper's initials / Checker initials



**Is this product “the best it can be” Yes**  
If **NO** fix before continuing

All parts checked and completed by:

Nut and bolts: \_\_\_\_\_ Date \_\_/\_\_/\_\_

Order control: \_\_\_\_\_ Date \_\_/\_\_/\_\_

Final wrap check: \_\_\_\_\_ Date \_\_/\_\_/\_\_



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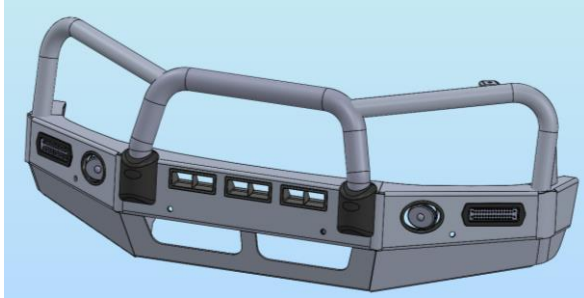
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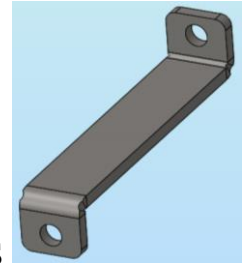
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Bull bar assembly



BHU100SY\_B6MS



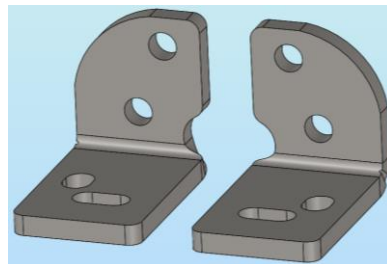
Chassis Mount



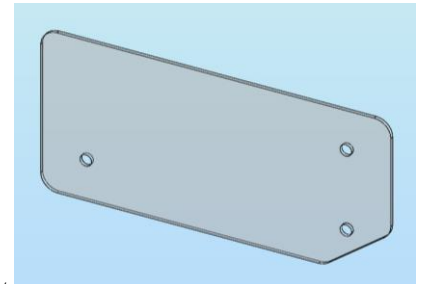
BHU100SY\_C6MS



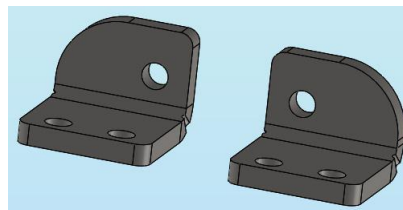
BHU100SY\_C8MS L&R



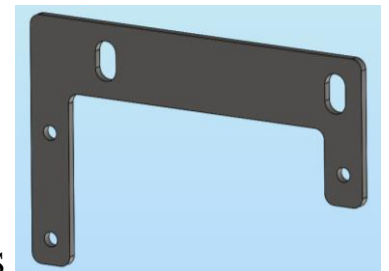
NBF160SY\_A2PL



BHU100SY\_B8MS L&R



BHU100SY\_A4MS



\_\_\_\_\_  
Wrapper's initials / Checker initials



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