

BT185SY

REPLACES: 04.02.19
REVISED: 15.12.20

FITTING INSTRUCTIONS

TOYOTA HIACE SUPER LWB 3/14 ON BIG TUBE PROTECTION BAR VEHICLE FRONTAL PROTECTION SYSTEM (VFPS) FOR AIR BAG & ADR COMPLIANT VEHICLES

Check installation hardware before commencing.

1. Lift bonnet. Remove grille, two PK self-tapers and four plastic push pull clips at top. Pull grille out at top to access fixed grille clips into top of bumper cover. Release clips and pull grille forward.
2. Remove bumper cover: Remove plastic step infills four plastic push pull clips per infill, **see figure 1**. Remove one plastic clip from top of bumper cover, remove two plastic clips at bottom of side returns (each side) and three plastic clips from lower bumper cover, and remove three 10mm head bolts from centre air intake area of bumper cover. Pull bumper cover out at side returns to release off clips, **see figure 2**. Pull forward off locating tabs (two) near lower inner headlight area. **See figure 3**.
3. Remove lower and upper steel bumper cover support from chassis. Ten 14mm head bolts, one 10 mm head bolt. **See figure 4**.
4. Remove two 12 mm head bolts (each side) from front of chassis and remove steel keepers, on passenger side remove temperature sensor from keeper. **See figure 5**.
5. Flatten two mounting tabs (each side) at front of chassis. **See figure 6**.
6. Remove horn and flatten side of horn mount. **See figure 7**.
7. Fit and level steel mounting brackets (supplied) to front of chassis between steel support (removed) and end of rail. Use M10 x 35 bolt, flat washer and spring washer (supplied) into original 10mm captive nut. Centralise steel mounts to front of vehicle ensure steel mounting brackets are set at correct measurement for protection bar to mount on outside of steel mounting brackets (check protection bar measurement) Tighten bolts. **See figures 8**.
8. On passenger side steel mount place temp sensor into hole, then using zip tie wrap around sensor. **See figure 9**.
9. On passenger side (outside of rail) fit tow hook. Locate tow hook in correct position by using 3/8 x 6 bolt (supplied) through front hole in top of chassis rail as shown in **figure 10**. Using tow hook as a guide mark and drill two 10 mm holes through rail. Remove tow hook and enlarge outside holes in rail to 18 mm and bottom hole in under side of rail to 18 mm to accept tube spacers **See figures 10, 11 and 12. Blow filings clear and treat all exposed metal with a rust inhibitor.** Refit tow hook to vehicle using bolts supplied ,two 3/8 x 4 1/2 bolts, flat washers, tube spacers (87 mm and 80 mm) and nyloc nuts (supplied) in chassis holes and one 3/8 x 6 bolt, flat washers, tube spacer (115 mm) and nyloc nut (supplied) in locater hole. **NOTE.** Tube spacers are different lengths, 87mm long tube spacer is for top hole in rail.
10. Remove headlights, three 10mm head bolts. 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. Refit lights.
11. Using measurement from steel mount in step six transfer it to inside of front bumper, carefully mark and cut front bumper, grille and top grille to fit over steel mount. **See figures 13, 14, and 15**.

12. Drill 25 mm hole in bumper infill for park / indicator wire to go through to protection bar **See figure 16.**
13. Refit bumper carefully over steel mount in the reverse step of 1.
14. 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. See figure 17.
15. 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 18, 19 and 20.**
16. Fit protection bar onto steel mount and fix with bolts supplied six M12 x 40 bolt, flat washers, spring washers and nuts (supplied). Align protection bar with vehicle and tighten bolts.

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:

- a) Do not attach VFPS to the vehicle using anchorages not intended for this purpose (e.g. engine mounting bolts).
- b) Do not use this product for any vehicle make or model, other than those specified by the VFPS manufacturer.
- c) Do not remove the plaque or label from the VFPS.
- d) Do not modify the structure of the VFPS in any way.
- e) No accessory or fitment should project forward of the VFPS forward profile.
- f) **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

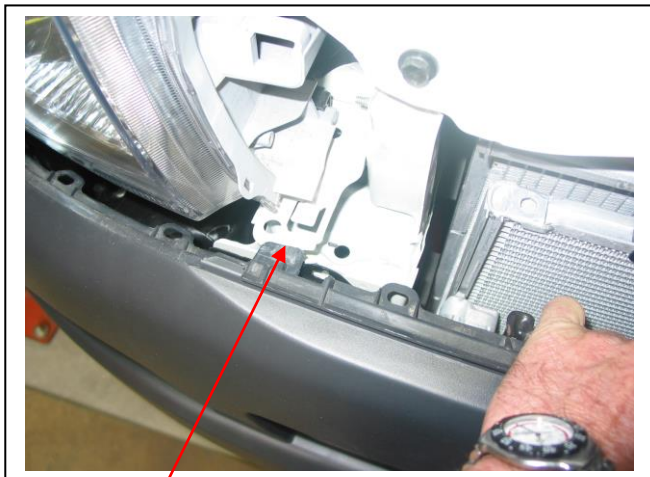
1 – Pair ECB Steel mounts	2 – M10 x 1.25 x 35mm bolts
1 – Tow hook – In fitting kit	12 – M10 flat washers
1 – Back stop – In fitting kit	12 – M10 spring washers
1– Steel tube spacer (10 NB) 80mm long	2 – 3/8 x 4 ½ bolts
1– Steel tube spacer (10 NB) 87mm long	1 – 3/8 x 6 bolt
1– Steel tube spacer (10 NB) 115mm long	6 – 3/8 flat washers
6 – M12 x 1.25 x 40mm bolts	3 – 3/8 nyloc nuts
12 – M12 flat washers	1 – ECB LED Indicator / Park light kit (ICLED104ECB)
6 – M12 spring washers	1 – Quick click harness kit (IC14TOHIAINDH)
6 – M12 x 1.25 nuts	1 – 2100mm length 6mm clip lock trim
10 – M10 x 1.25 x 30mm bolts	2 – 650mm lengths 6mm clip lock trim



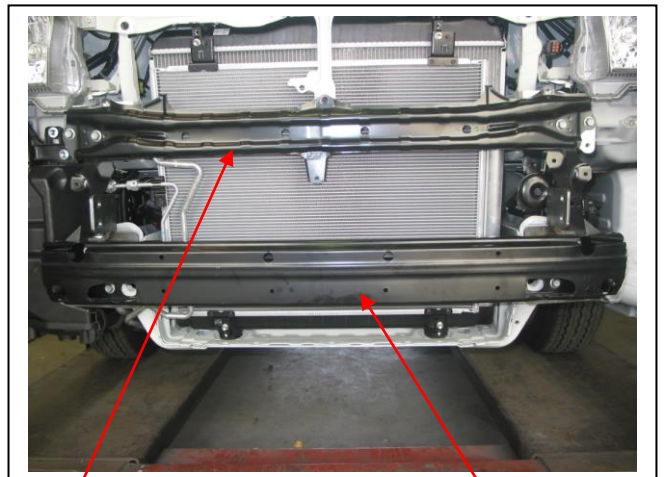
Figure 1 – Shown removing passenger side step infill



Figure 2



Locating tabs **Figure 3**



Steel bumper cover support upper

Figure 4

Steel bumper cover support lower

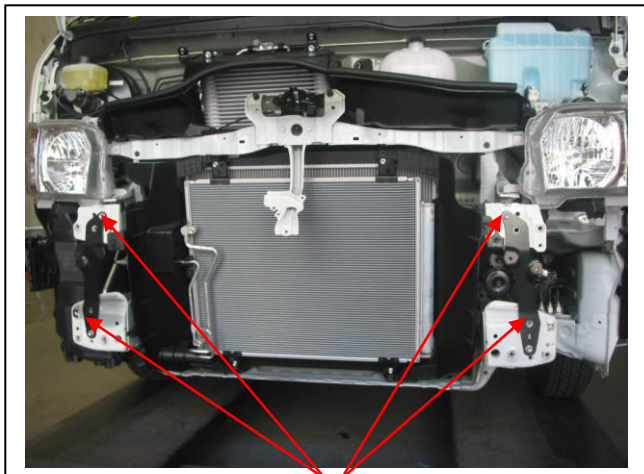


Figure 5

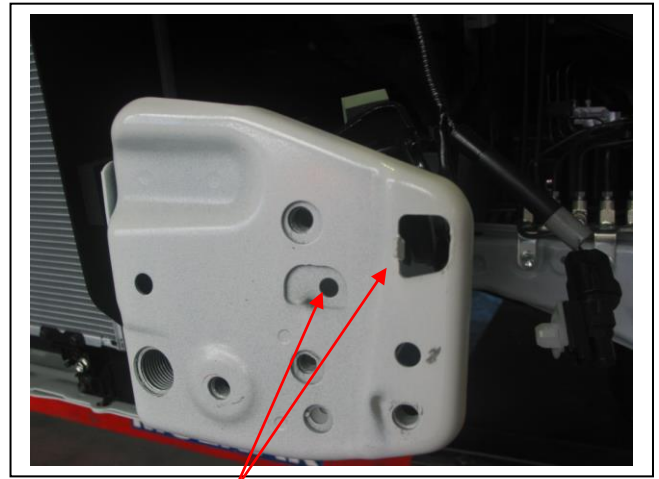


Figure 6 – flatten two tabs per side



Figure 7



Figure 8

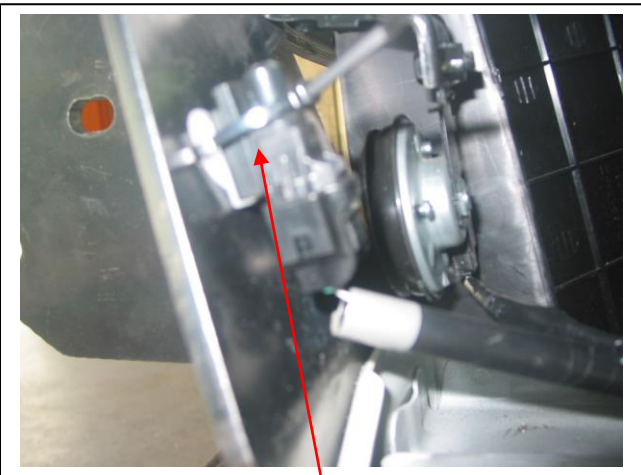


Figure 9

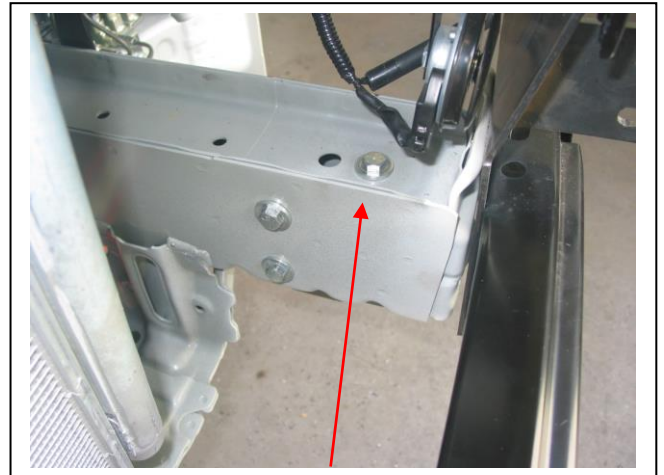


Figure 10 – 6 inch bolt for locator

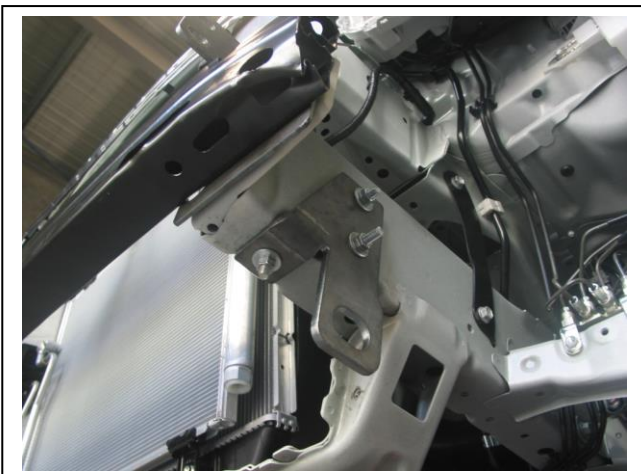


Figure 11

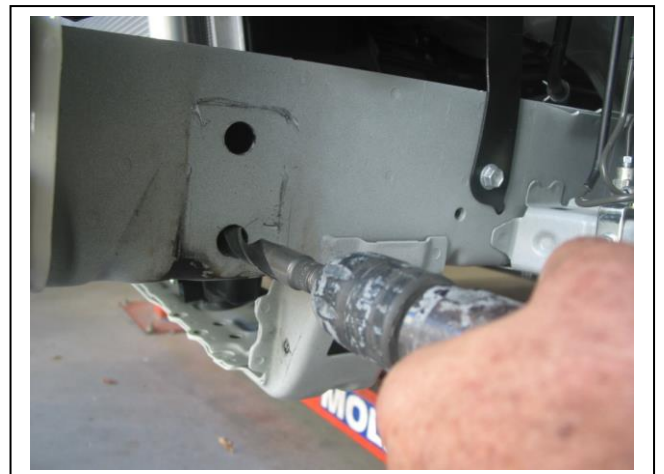


Figure 12



Figure 13 – Cut end off grille.



Figure 14 – Cut end of grille.



Figure 15 – Area that needs to be cut to fit over steel mount.



Figure 16.

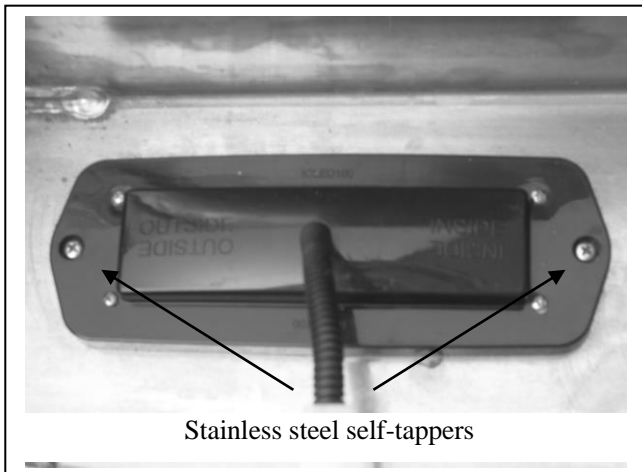


Figure 17

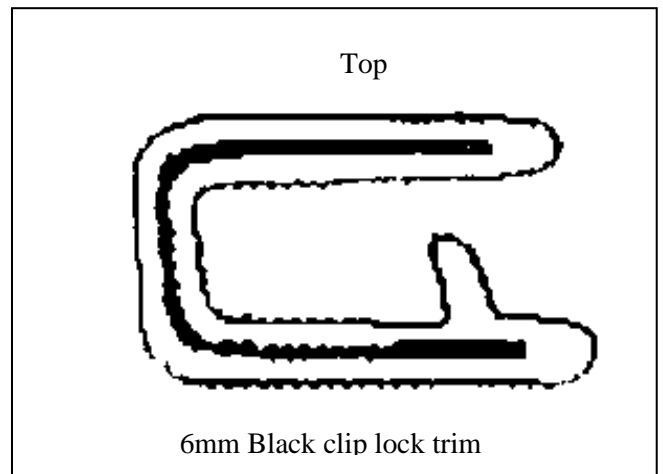


Figure 18

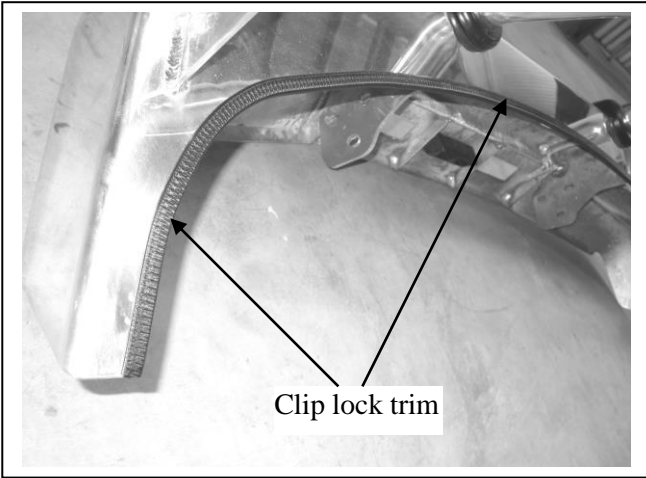


Figure 19

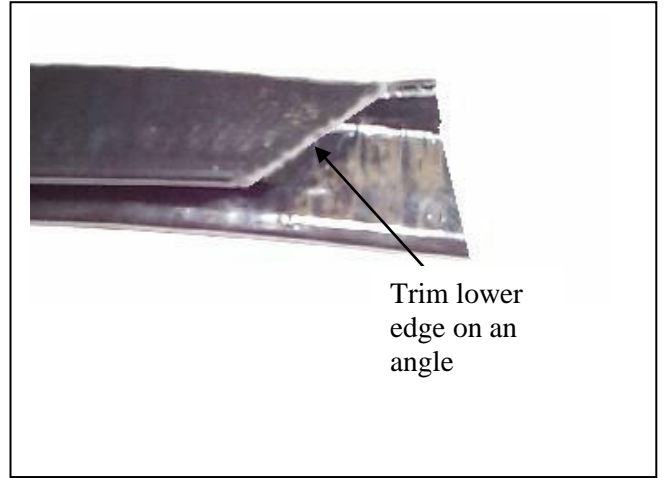


Figure 20



Figure 21 -Front view



Figure 22 - Side view



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Stronger
Better!**

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W: customalloy.com.au



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.

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

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.

Post to
Reply Paid 122
PO Box 122
Margate QLD 4019

Fax to
(07) 3283 1168



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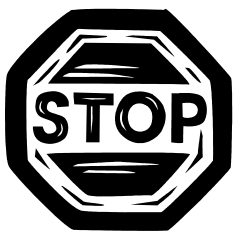
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W: ecb.com.au
W: customalloy.com.au



DESPATCH CHECKLIST BT185SY

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

- OC.....1 – Pair Steel mounting bracket.
- OC.....1 – Bolt Kit
- OC.....2 – ECB Overrides
- OC.....4 – 3mm air scoops
- WR.....1 – Pair Steel mounting brackets – **Fitted to bar**
- WR.....2 – ECB Overrides - **Fitted to Bar**
- WR.....4 – 3mm air scoops – **Fitted in bar**
- WR.....1 – Bolt kit – **taped inside wing**



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

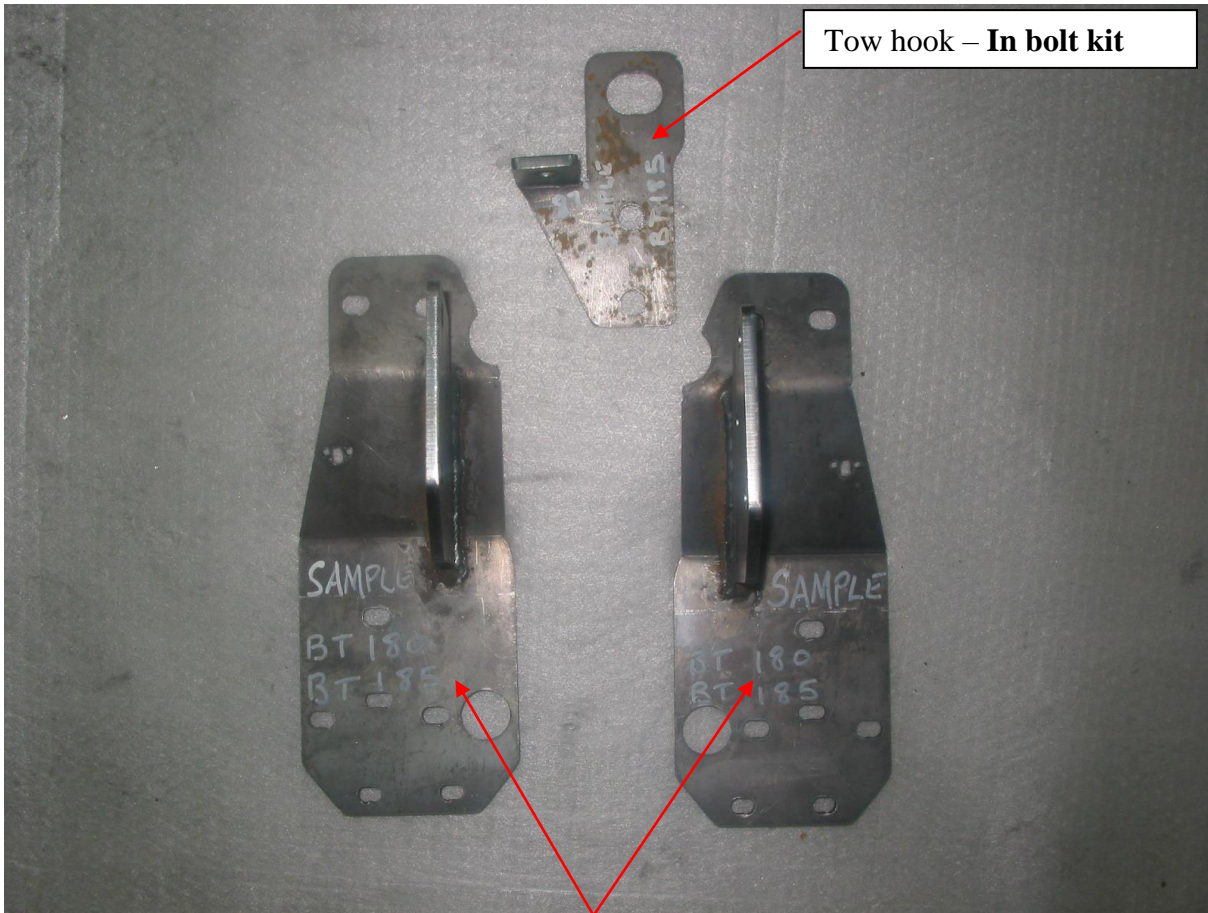
_____/_____
Wrapper's initials / Checker initials

All parts checked and completed by:

Nut and bolts: _____ Date __/__/__

Order control: _____ Date __/__/__

Final wrap check: _____ Date __/__/__



Tow hook – In bolt kit

1 Pair Steel mounting brackets – Fitted to Bar

_____/_____
Wrapper's initials / Checker initials