



INSTALLATION GUIDE

TOYOTA HIACE 05-19 ON

PN: NBT186SY



NUDGE BAR

VEHICLE FRONTAL PROTECTION SYSTEM (VFPS)
FOR AIR BAG & ADR COMPLIANT VEHICLES

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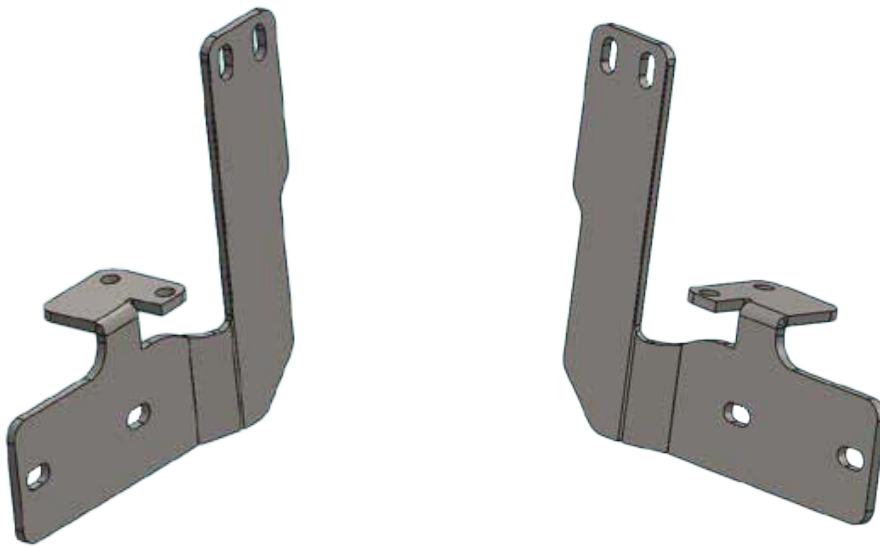
Stage 15 - Install Protection Bar

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Final Checks

INSTALLATION KIT

1 - Pair ECB Steel Mounting Brackets	20 - M10 spring washers
12 - M10 X 1.25 X 40mm Bolts	10 - M10 X 1.25 Nuts
8 - M10 X 1.25 X 35mm Bolts	2 - M10 X 1.25 Nuts and Washer On 300mm Wire
30 - M10 Flat Washers	



Pair ECB Steel Mounting Brackets
Fitted to Bar

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STAGE 1 - VEHICLE PREPARATION

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 - TOP RADIATOR COVER

Remove top cover from grille, nine (9) x push pull plugs.



STAGE 3 - TOP BUMPER FIXINGS

Remove three (3) x 10mm head bolts beside headlight and centre of grille and four (4) x 10mm head bolts top of grille.

Pull up on clips beside headlight and pull bumper forward slightly.



STAGE 4 - ELECTRICS DISCONNECTION

Disconnect parking sensors and sonar next to bonnet latch.



STAGE 5 - BUMPER COVER REMOVAL

Underside of vehicle remove fourteen (14) x push pull plugs, two (2) x 10mm head screws and four (4) x 10mm head bolts.

Remove under belly guard.



STAGE 6 - BUMPER COVER REMOVAL

From inside wheel arch remove one (1) x push pull plug.

Gently pull side guard away from vehicle.

CAUTION: Catch area at side of bumper can be easily ripped away from the bumper skin. Care is required.



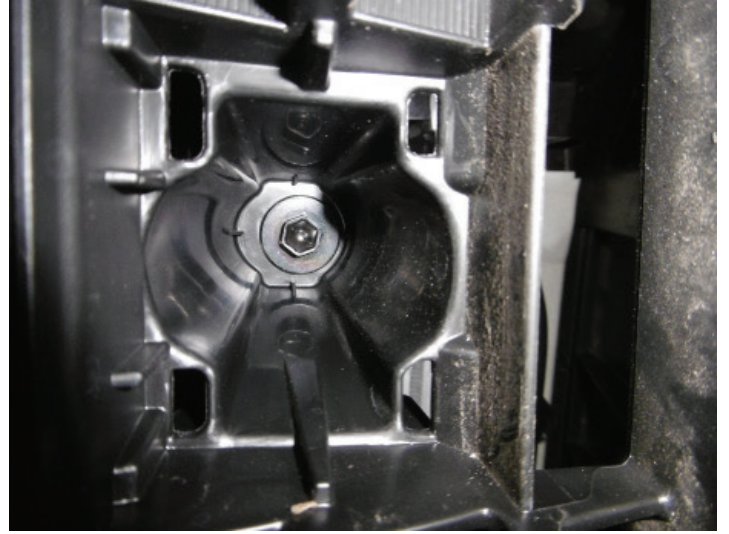
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STAGE 7 - BUMPER COVER REMOVAL

Lower grille remove tow point covers, unclip lower section by pushing down on clips and remove cover.

Remove two (2) x 10mm head bolts.

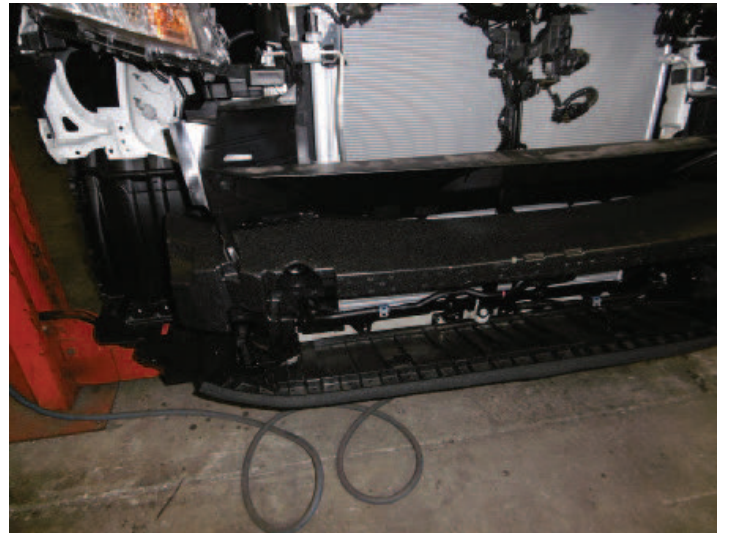
Carefully remove plastic bumper.



STAGE 8 - AIR DAMS

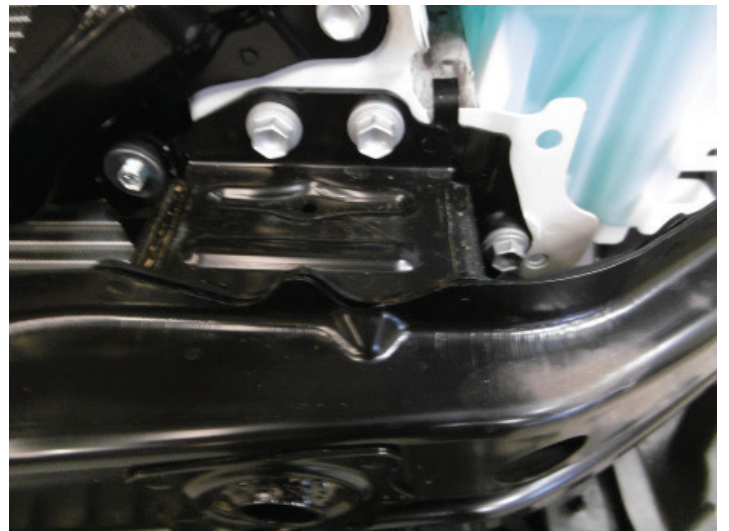
Remove foam from bumper support.

Remove upper and lower air dams two (2) x push pull clips either side of centre air dam, side air dams gently pull away from vehicle.



STAGE 9 - BUMPER SUPPORT REMOVAL

Remove bumper support four (4) x 14mm head bolts (per side).



STAGE 10 - MOUNTING BRACKET INSTALLATION

Fit ECB steel mounting brackets (supplied) to bumper support.

Place mount on inside of crash can.

Secure top of mount with two (2) x M10 x 1.25 x 35mm bolts, flat washers, spring washers and nuts (supplied) through top two (2) x holes in top of crash can.

Finger tighten only.



STAGE 11 - MOUNTING BRACKET INSTALLATION

On under side of bumper support drill two (2) x 10mm holes using steel mount as a guide.

Blow filings clear and treat all exposed metal with a rust inhibitor.

Secure with two (2) x M10 x 1.25 x 35mm bolts, flat washers, spring washers and nuts to outer hole (supplied). On inner hole use one (1) x M10 x 1.25 nut and washer on 300mm wire (supplied).

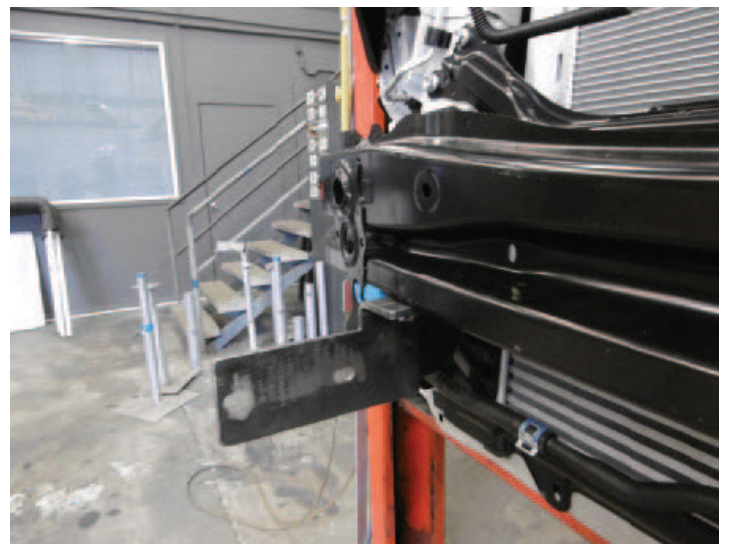
Tighten all bolts.



STAGE 12 - MOUNTING BRACKET INSTALLATION

Refit bumper support to vehicle using four (4) x M10 x 1.25x 40mm bolts, flat washers, spring washers (supplied).

Tighten all bolts.



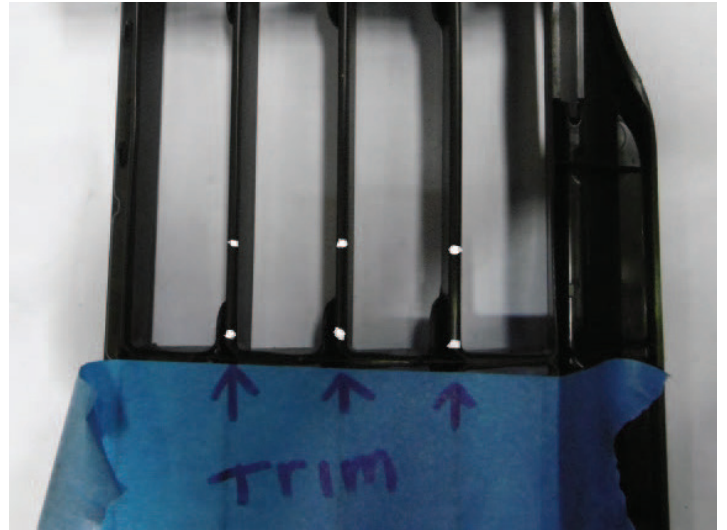
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STAGE 13 - GRILLE TRIM

Using steel mounting bracket measurement, mark lower air vent to be trimmed.

Trim lower air vent to allow for protrusion of Protection Bar mounting brackets.

NOTE: Allow room for Alloy bar mounts to run down inside of steel mounting brackets.



STAGE 14 - REFIT AIR DAMS AND BUMPER

Refit all air dams and foam bumper support to front of vehicle, trim where necessary.

Refit bumper in reverse of steps 2 to 8. **Do not** refit underbelly guard at this stage.



STAGE 15 - INSTALL PROTECTION BAR

Fit Protection Bar to steel mounting brackets using four (4) x M10 x 1.25 x 40mm bolts, flat washers, spring washers and nuts (supplied).

Align Protection Bar with vehicle.

Tighten all bolts.

Refit under belly guard.



FINAL CHECKS

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

IMPORTANT INFORMATION

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



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REPLACES: N/A
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