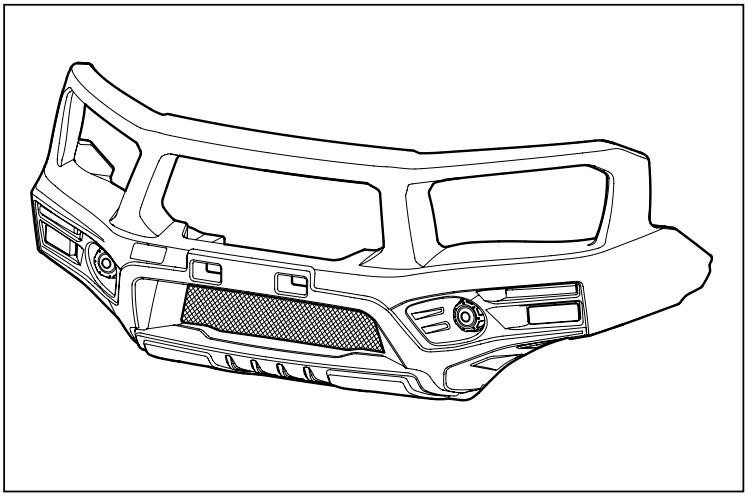
FITTING INSTRUCTIONS

Document Title: FI-170

Model Number:
SA170AA170 Wide Body SR & Workmate
SA173AA170 Wide Body SR5 (2018-2020)
SA268AA170 Wide Body SR5 & Fortuner (06/2020+)

Application:
Non Winch Bar
Toyota HiLux (09/2015 to 07/2018)
Toyota HiLux (08/2018 to 05/2020)
Toyota HiLux (06/2020 to 02/2024)
Toyota HiLux (03/2024+)



Fitting Time: Minimum 4 Hours

Revision:
N (30 May 2024)

PROUDLY AUSTRALIAN MADE

SRS AIRBAG ✓ | AS 4876.1 ✓ | ADR ✓ | PEDESTRIAN FRIENDLY

Congratulations on your purchase of a SmartBar.

Additional Kits:
- SA170FK (Filler Kit 2018-2020) 10min.
- SA268FK (Filler Kit 2020+) 10min.
- BP80628 (HiLux LED Fog Lights Pair 2020+) N/A
- SA297GBK (Fortuner Facelift Grille Bracket 2020+) 10min.

Warning:

- Do not attach the bar to the vehicle using anchorages not intended for this purpose.
- Do not use this product for any vehicle make or model, other than those specified on the instruction.
- Do not remove the plaque or label from the VFPS (SmartBar).
- Do not modify the structure of the VFPS in any way.

Note:

- Left and Right hand sides of the vehicle and SmartBar throughout this instruction are from the view of being in the drivers seat looking forward.
- Please take the time to read the instructions thoroughly before proceeding with fitment of the SmartBar.
- Ensure all components, as listed in the bill of materials on the back page, are received prior to commencing the fitment. Please retain all hardware until fit-up is complete.
- All wiring should be completed by a qualified auto electrician. SmartBar bears no responsibility for any electrical failure caused by the incorrect fitment of the lamps.
- Ensure these fitting instructions are passed onto the vehicle owner and/or operator.

⚠ **CAUTION Max torque of 28Nm for the M10 and 55Nm for the M12 bolts into the SmartBar brass nutserts. THESE MUST NOT BE OVERTIGHTENED.**

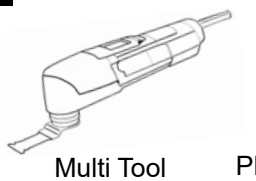
⚠ **Anti-seize MUST be used on all threaded fittings into the Bar.**

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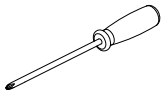
Tools Required



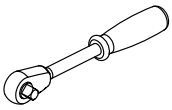
6 & 8mm
Drill Bit



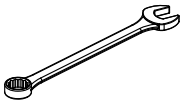
Multi Tool



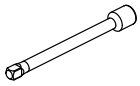
Phillips/Flat head
Screwdriver



-Socket drive
-Torque wrench
20 - 80 Nm



Ring spanner
16, 18mm



Socket
Extension



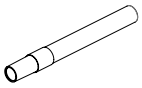
Tape measure
or ruler



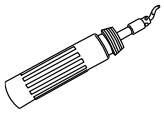
Socket 10, 15
14, 16, 18mm



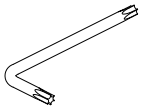
Painters
tape



Marking
Pen



Deburring
tool

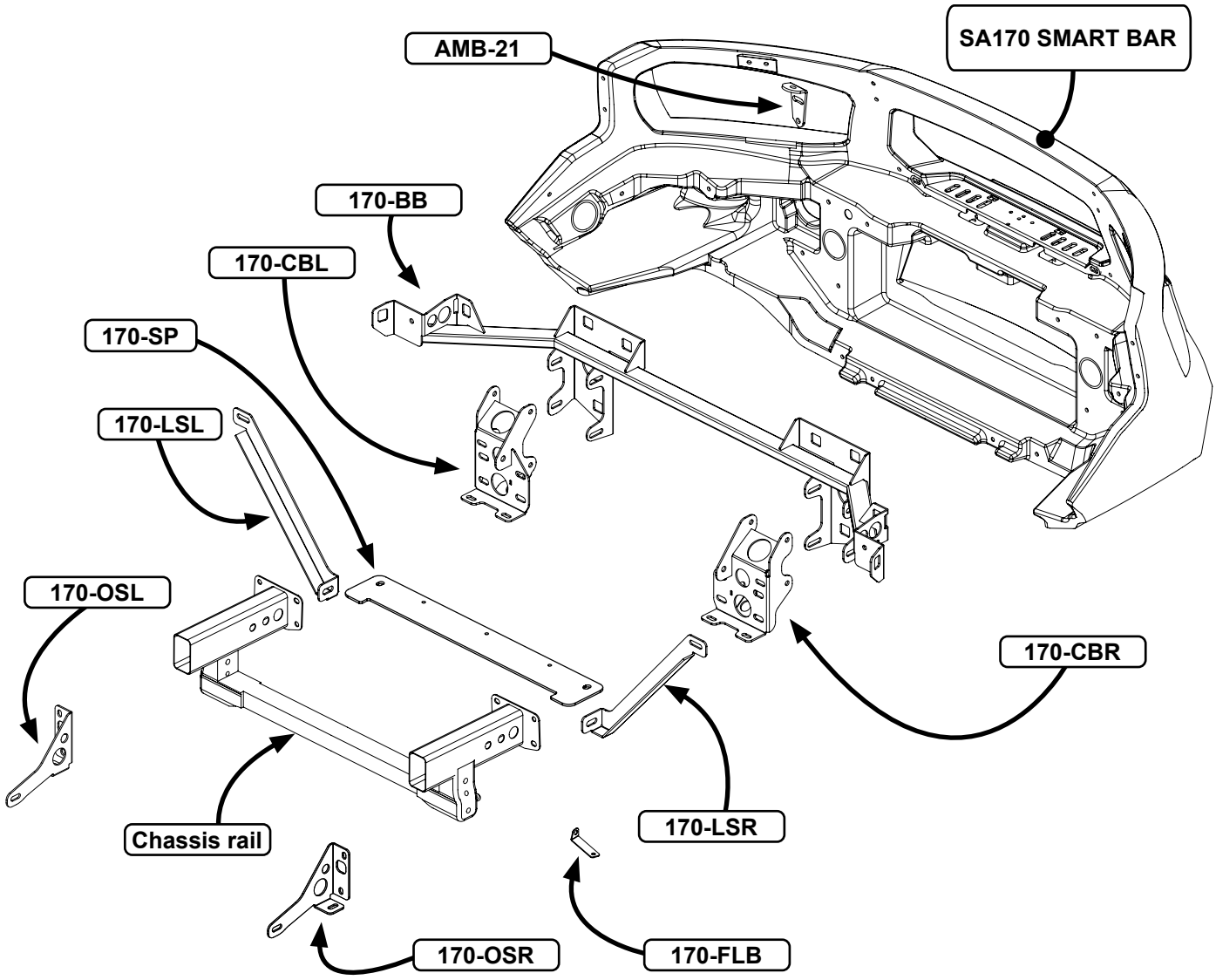


Torx Key
T20



Side Cutter

SmartBar and Mounting Brackets Overview - SA170BK



Bolt Torque Specifications- Into SmartBar Nutserts		
Bolt Size	**Torque- Nm**	**Torque- lb/ft**
M10	28	20
M12	55	40

Bolt Torque Specifications- "Metal to Metal" Mounting		
Bolt Size	**Torque- Nm**	**Torque- lb/ft**
M10	44	32
M12	78	57

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Toyota HiLux (09/2015 to 07/2018)



Toyota HiLux (08/2018 to 05/2020)



Toyota HiLux (06/2020 to 12/2023)



Toyota HiLux (01/2024+)



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Step 1: Vehicle Disassembly & Preparation

1.1 Remove the number plate.

NOTE: Keep the number plate in a safe and secure place for re-installation.

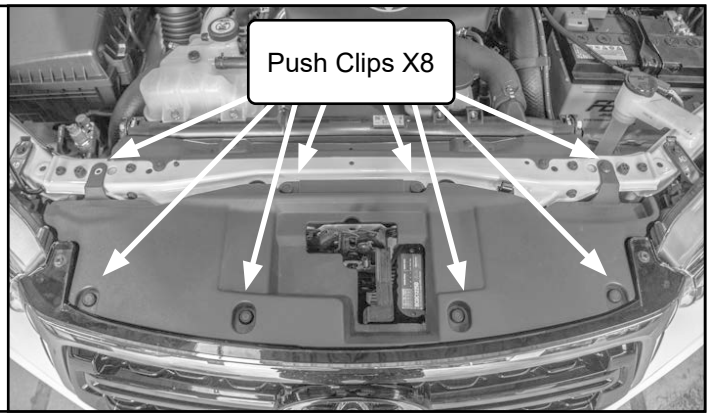
If installing SA170CRK Camera Relocation Kit, refer to 170-FI before continuing with the Bar install.



MY2018 HILUX Shown

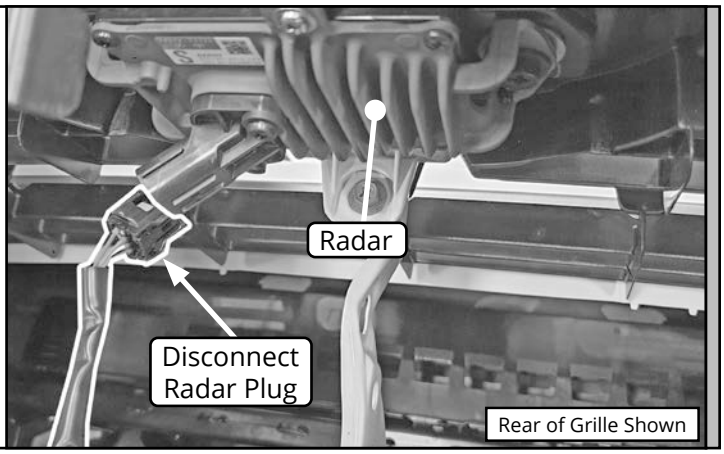
1.2 Remove clips as shown.

Note: Do not discard removed hardware and components until the installation is complete.



1.3 **For 2018 & 2020+ Facelift models only**

Disconnect front radar behind badge.

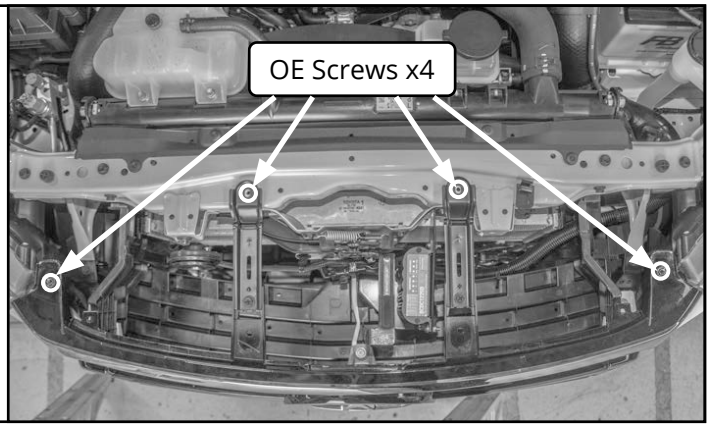


Rear of Grille Shown

1.4 Remove hardware shown from the grille.

NOTE: Keep all hardware to refit.

Tool(s) Required: 10mm Socket

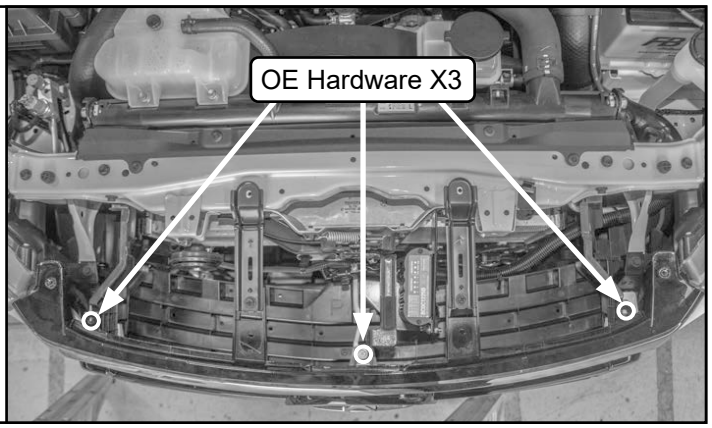


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1.5 Remove hardware shown, for outer screws on 2020 facelift see step 1.6.

NOTE: Keep all hardware to refit.

Tool(s) Required: 10mm Socket

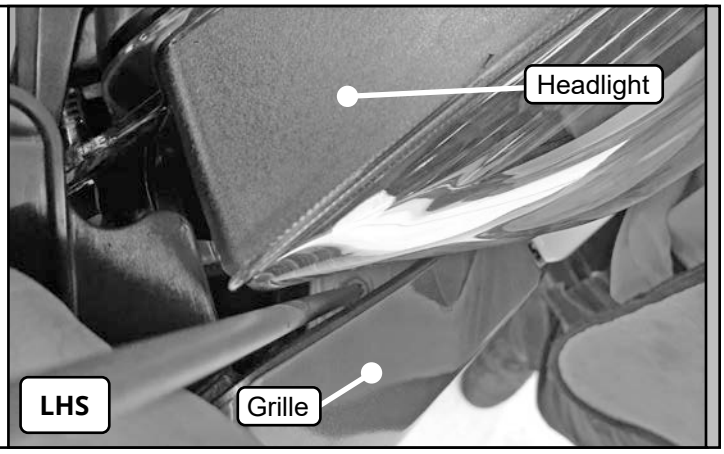


1.6 **For 2020+ Facelift model only**

Pull the grille back to access bumper screw under headlight, both sides.

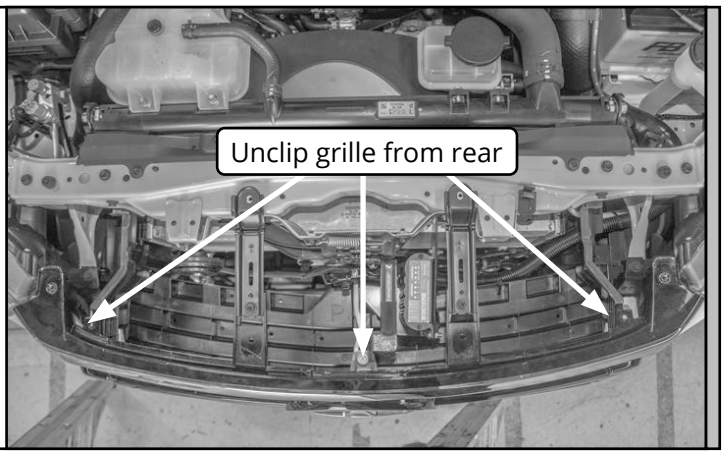
NOTE: Keep all hardware to refit.

Tool(s) Required: Long Philips Screwdriver



1.7 **2018-2024+ Facelift skip to step 1.8**

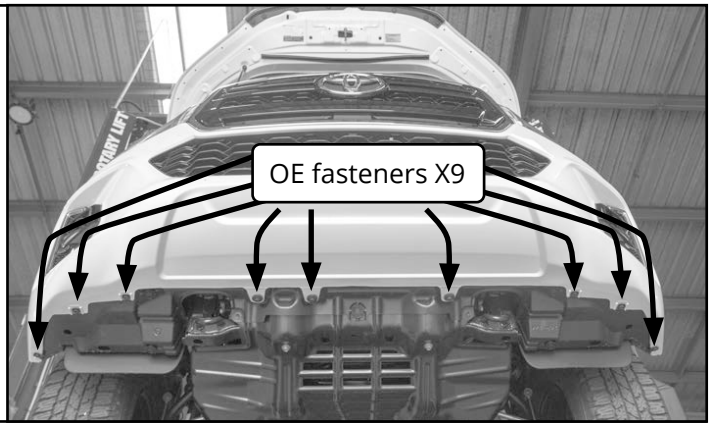
Remove retainer clips that run along the base of the grill and gently remove the grille.



1.8 Remove the fasteners as shown.

Discard Hardware

Tool(s) Required: 10mm Socket

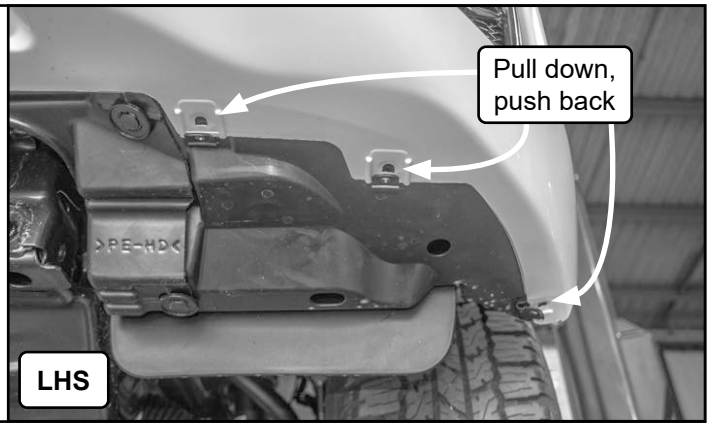


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1.9 Upclip bumper as shown.

Repeat on the other side.

Discard Hardware



1.10 Remove the clips as shown.

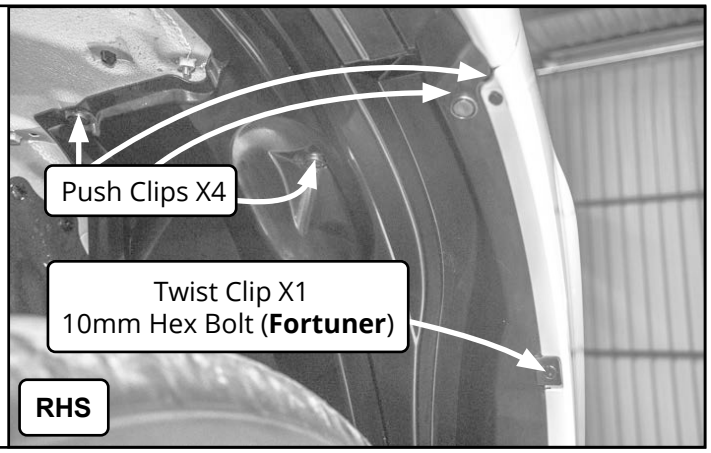
Repeat on the other side.

NOTE: If fog lights are installed, disconnect their wiring.

If parking sensors are present, refer to Fitting Instruction **FI-268PSK**.

FORTUNER 09/15 - 08/20 ONLY

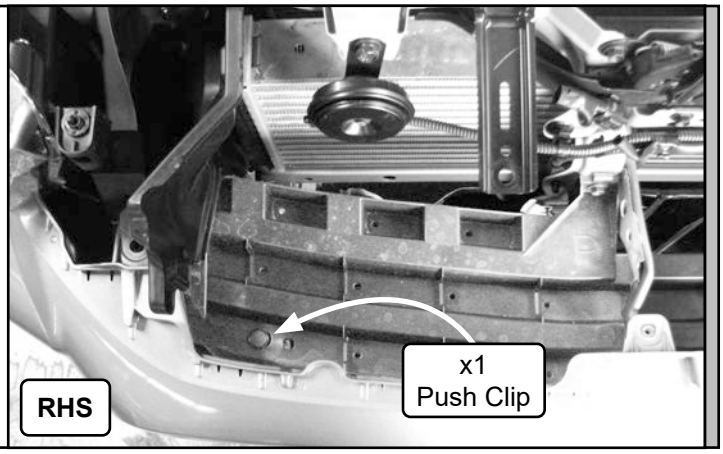
NOTE: Fortuner Uses **10mm hex bolt X1** in place of push clips in the fender liner.



1.11 **For 2020+ Facelift model skip to step 1.12**

Remove hardware as shown.

Repeat on the other side.

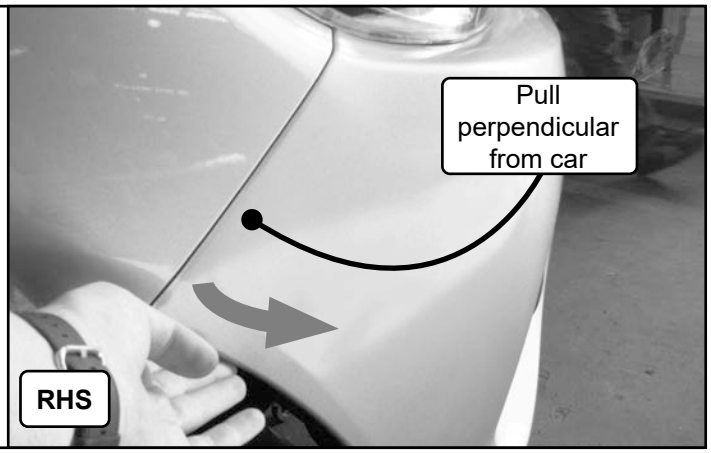


1.12 Carefully remove the bumper skin. This will require a little bit of pressure to remove.

Place The bumper on a soft surface to avoid damage. Keep to refit.

For 2018-2024+ Facelift models

Remove grille and bumper as one



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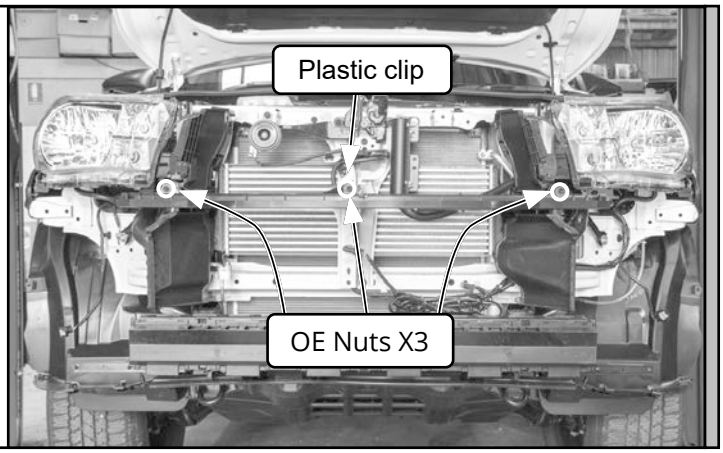
1.13 **For 2020+ Facelifty Models skip to step 1.15**

Remove the hardware shown that is holding the plastic bumper support to the body.

Unclip from the centre and remove from vehicle.

Discard plastic bumper support.

Tool(s) Required: 10mm Socket

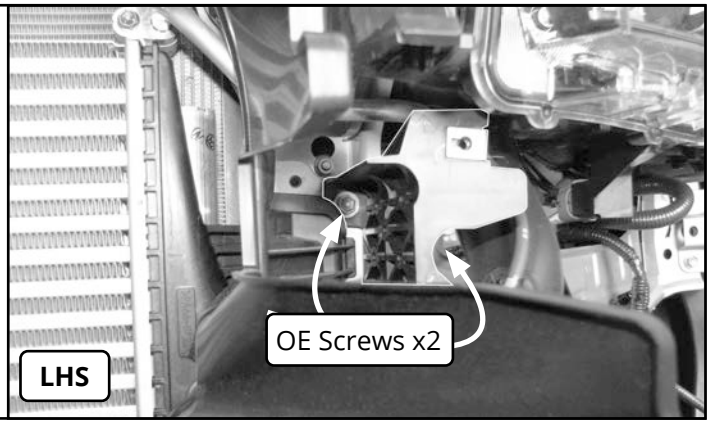


1.14 Remove the screws retaining the bumper support to the body. Discard bumper retainer.

Repeat on the other side.

NOTE: Not on SR5

Tool(s) Required: 10mm Socket



1.15 Remove the air rams.

Repeat on the other side.

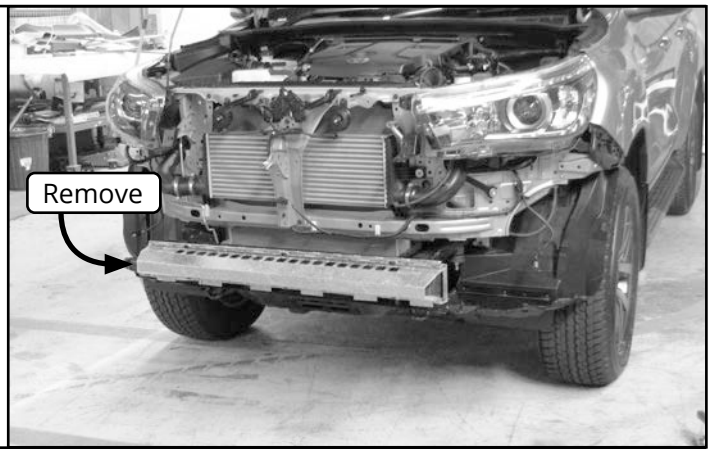
Discard parts.

NOTE: There are no fasteners, Apply firm pull away from the vehicle.



1.16 Remove the plastic crash beam.

NOTE: It is secured with plastic clips. Pull directly away from the vehicle.



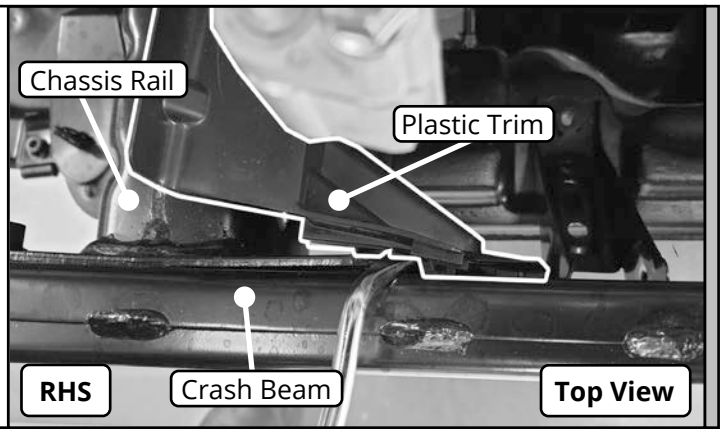
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1.17 **For 2020+ Facelift Model Only**

Remove plastic trims on the rear of crash beam,

Repeat on the other side.

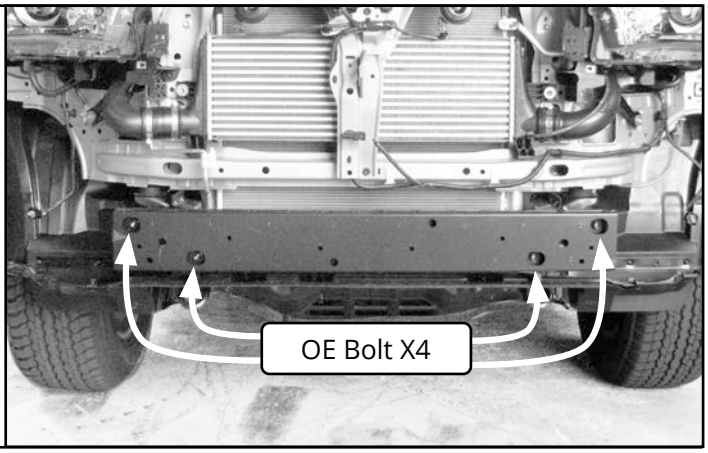
Discard parts.



1.18 Remove the crash beam as shown.

NOTE: Keep all hardware to refit.

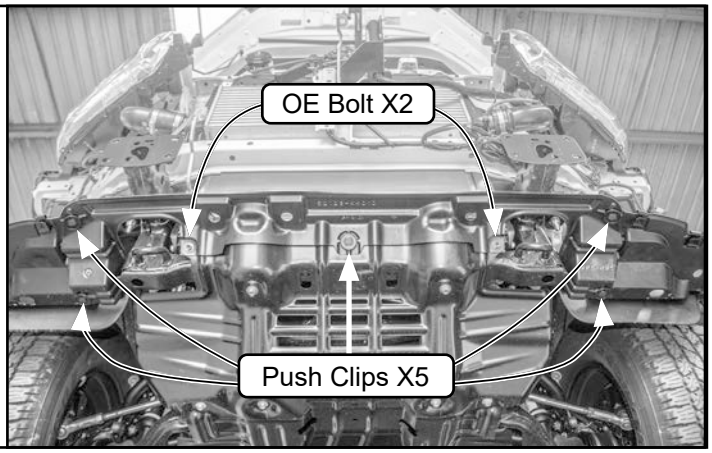
Tool(s) Required: 14mm Socket
Breaker bar



1.19 Remove the under body guard as shown.

NOTE: Keep all hardware to refit.

Tool(s) Required: 10mm Socket



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Step 2: Bumper and Component Trimming

⚠ **Carefully identify the trim template that is suitable for your vehicle below;**

Toyota HILUX

- **05/2015 to 07/2018** + All Narrow Body Variants [steps 2.1-2.3]
- **08/2018 to 05/2020** Wide Body Variants [steps 2.4-2.11]
- **06/2020 to 02/2024** Wide Body Variants [steps 2.12-2.20]
- **03/2024+** Wide Body Variants [steps 2.21-2.32]

Toyota Fortuner

- **09/2015 to 05/2020** [steps 2.33-2.35]
- **06/2020+** [steps 2.36 to 2.48]

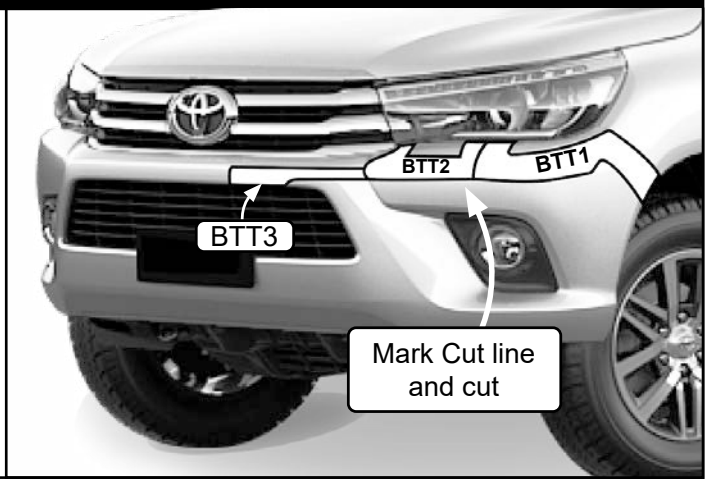
TOYOTA HILUX PRE-FACELIFT (05/2015-07/2018)

2.1 Using the provided trim template for the vehicle start measuring out the bumper bar trim.

NOTE: Painters tape is recommended around the area that will be marked, and using the provided template mark the trim.

Flip the LHS template to mark on the other side.

Tool(s) Required: Painters Tape
Marking Pen



2.2 Carefully trim the bumper as shown.

Debur the edge once the trim is complete.

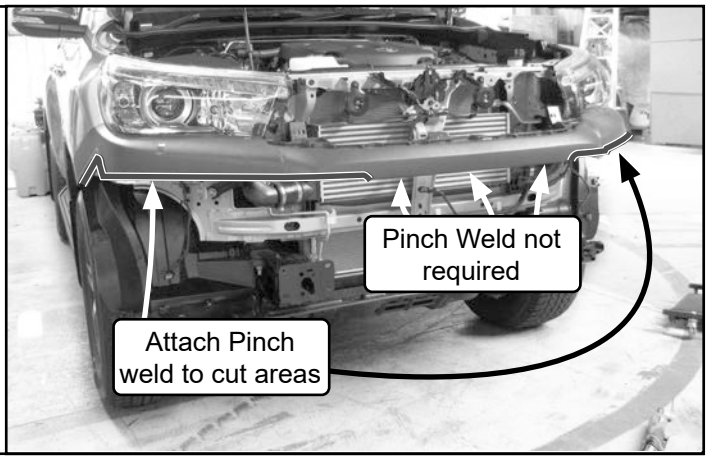
Tool(s) Required: Oscillating Multi-Tool
Deburring Tool



2.3 Cut the pinch weld supplied evenly in half.

Attach pinch weld to the trimmed bumper as shown.

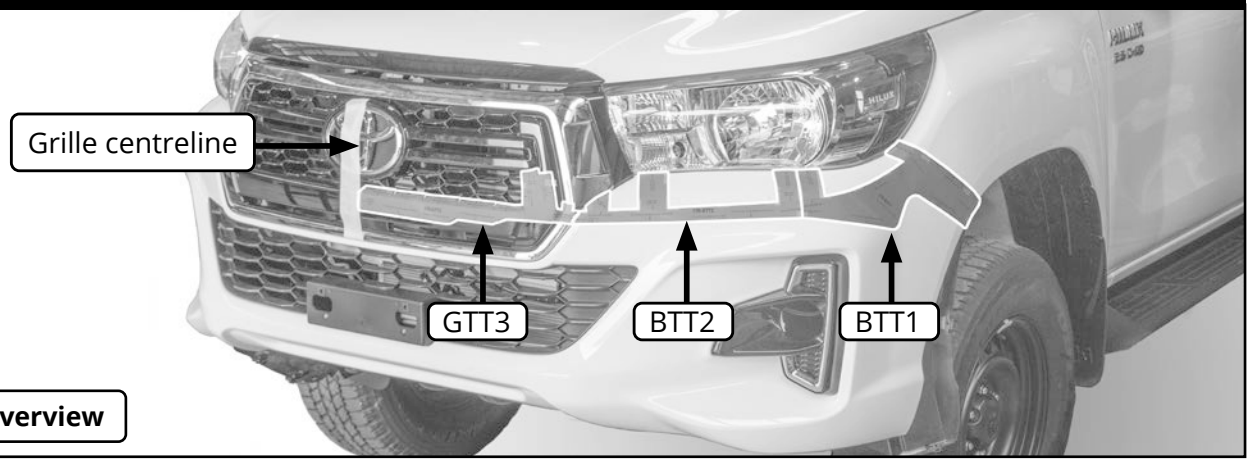
NOTE: Do not reinstall grille untill SmartBar is fitted,



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TOYOTA HILUX 08/2018-05/2020

2.4



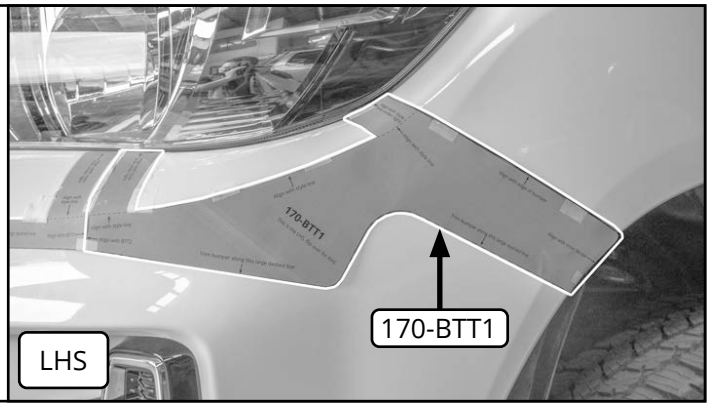
Template Overview

2.5 Cut out the 170-BTT1 trim templates supplied,

Place painters tape around the area that will be marked and apply 170-BTT1 as shown to the bumper.

Flip the LHS template to mark on the other side.

Tool(s) Required: Painters Tape
Marking Pen

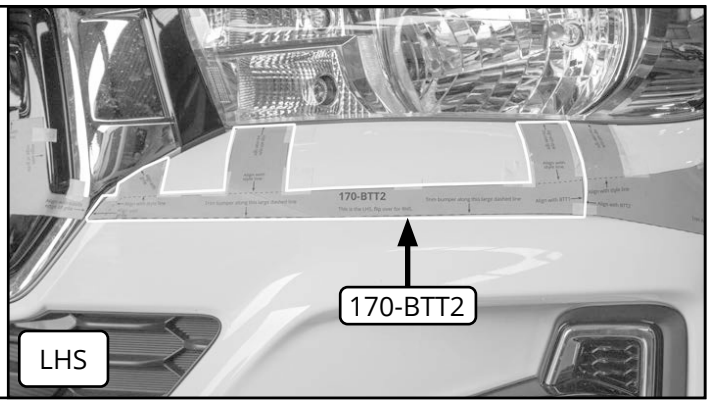


2.6 Cut out the 170-BTT2 trim templates supplied,

Place painters tape around the area that will be marked and apply 170-BTT2 as shown to the bumper.

Flip the LHS template to mark on the other side.

Tool(s) Required: Painters Tape
Marking Pen



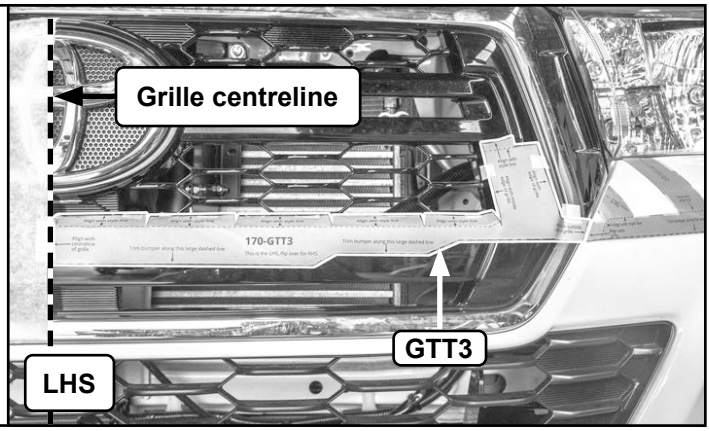
2.7 Measure out the centre of the grille and apply a strip of painters tape as shown.

Cut out the 170-BTT3 trim templates supplied,

Place painters tape around the area that will be marked and apply 170-BTT3 as shown to the bumper.

Flip the LHS template to mark on the other side.

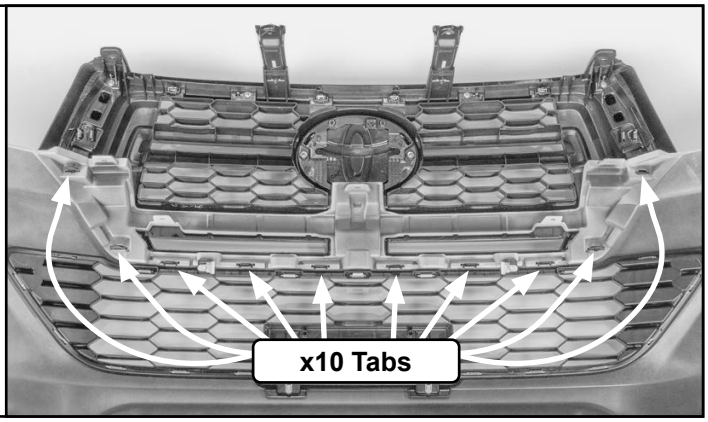
Tool(s) Required: Painters Tape
Marking Pen



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2.8 With the trim line marked remove grille from bumper by lifting tabs as shown.

NOTE: Place grille on a soft surface to avoid damage as shown. Keep to refit.



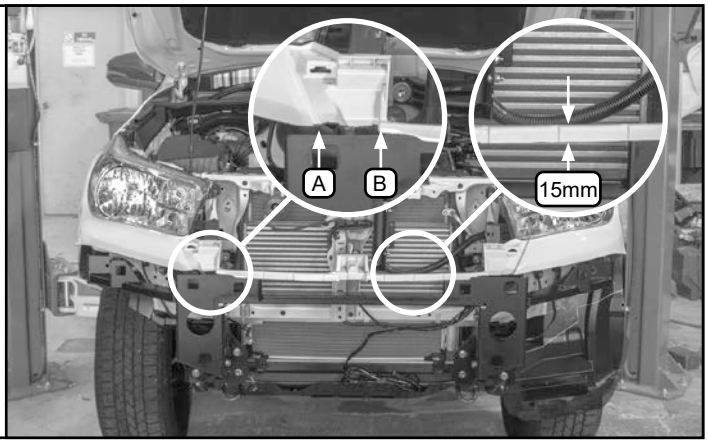
2.9 Carefully trim the grille and bumper separately.

For bumper area under grille:
Mark and trim from **Point A** to **Point B**.

for Bumper under grill
Mark and trim **15mm from top edge**

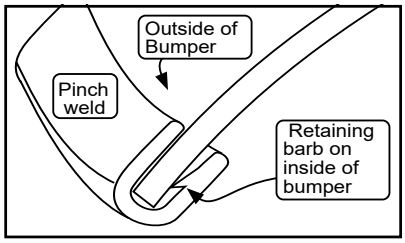
Debur the edge once the trim is complete.

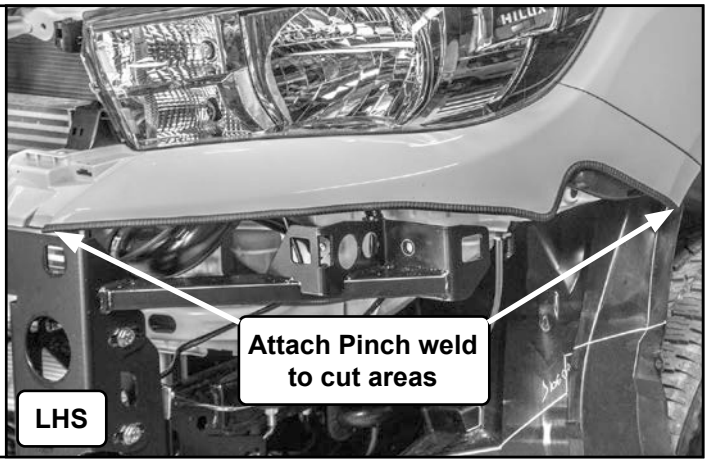
Tool(s) Required: Oscillating Multi-Tool
Deburring Tool



2.10 Cut and apply the pinch weld supplied to suit the trimmed bumper as shown.

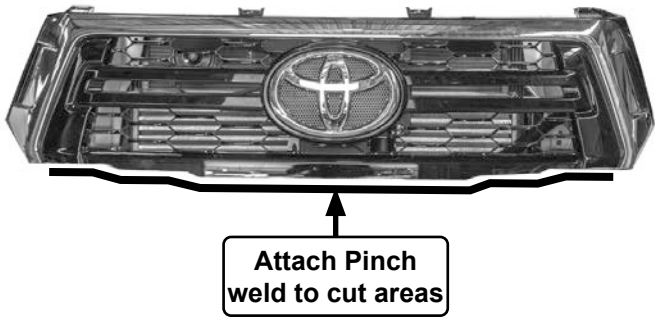
Repeat on the other side,





2.11 Attach pinch weld to the trimmed area of the grille as shown.

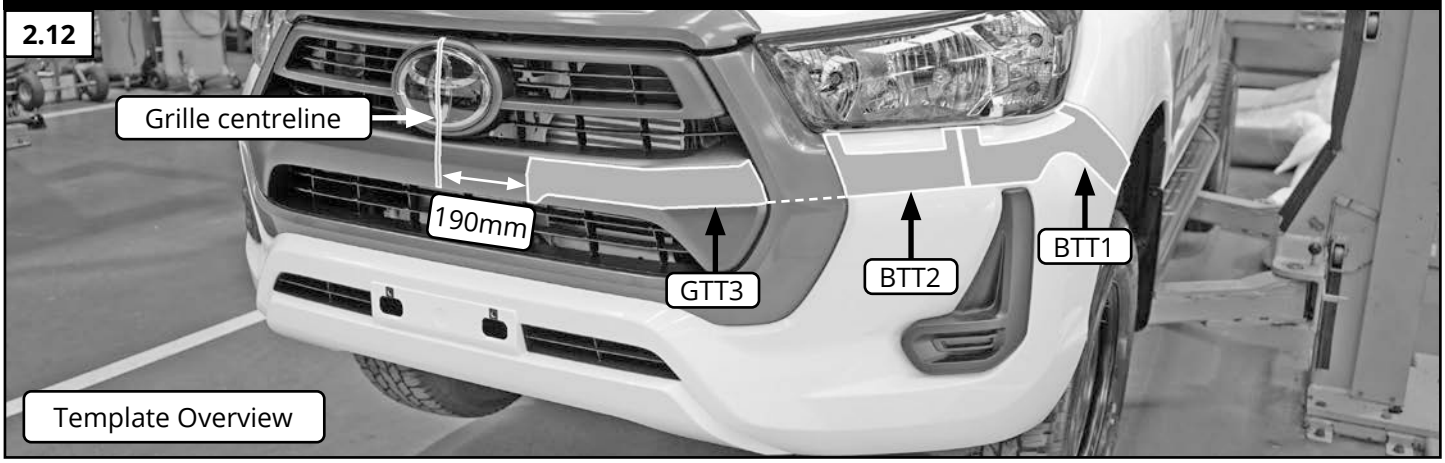
NOTE: Do not reinstall grille untill SmartBar is fitted,



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TOYOTA HILUX 06/2020-02/2024

2.12

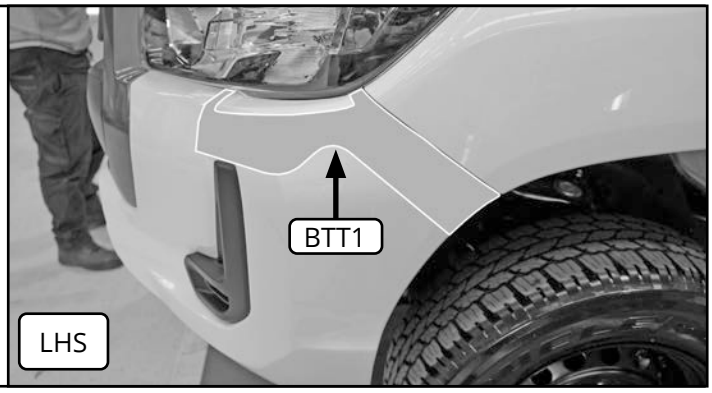


2.13 Cut out the 170-BTT1 trim templates supplied,

Place painters tape around the area that will be marked and apply 170-BTT1 as shown to the bumper.

Flip the LHS template to mark on the other side.

Tool(s) Required: Painters Tape
Marking Pen

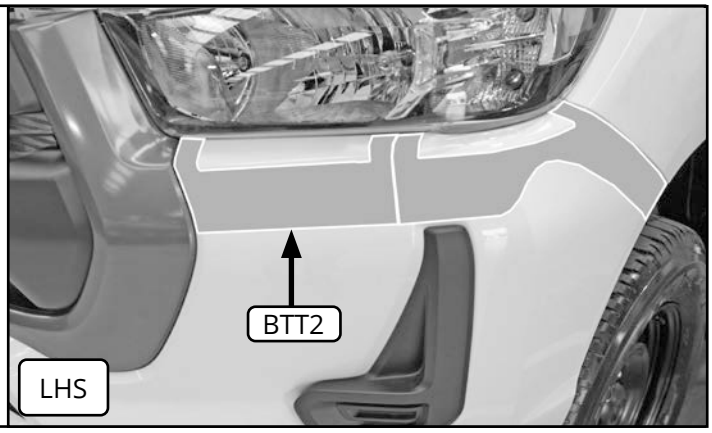


2.14 Cut out the 170-BTT2 trim templates supplied,

Place painters tape around the area that will be marked and apply 170-BTT2 as shown to the bumper.

Flip the LHS template to mark on the other side.

Tool(s) Required: Painters Tape
Marking Pen



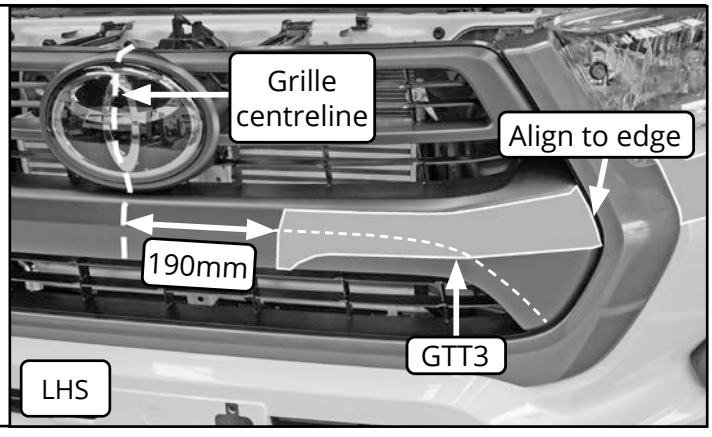
2.15a Identify the centre of the grille. Apply a strip of painters tape as shown.

Cut out the 170-BTT3 trim templates supplied,

Place painters tape around the area that will be marked and apply 170-BTT3 as shown to the bumper.

Flip the LHS template to mark on the other side.

Tool(s) Required: Painters Tape
Marking Pen

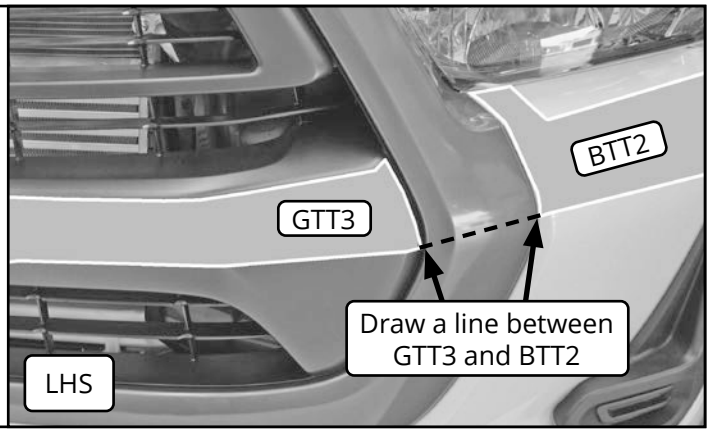


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2.15b Using a straight edged rule, draw/tape a line between GTT3 and BTT2 as shown.

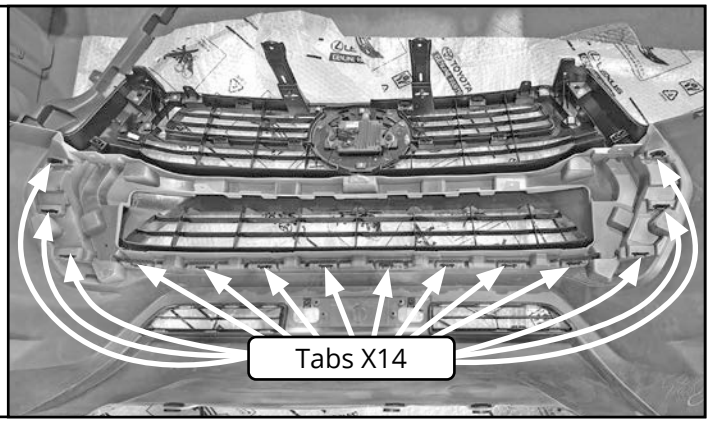
Repeat on the other side.

Tool(s) Required: Marking Pen/ Painters Tape



2.16 With the trim line marked remove grille from bumper by lifting tabs as shown.

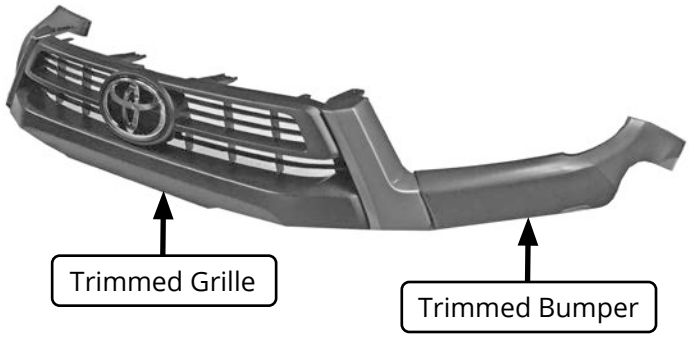
NOTE: Place grille on a soft surface to avoid damage as shown. Keep to refit.



2.17 Carefully trim the grille and bumper separately.

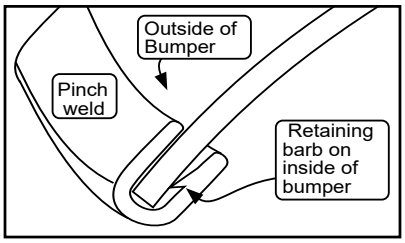
Debur the edge once the trim is complete.

Tool(s) Required: Oscillating Multi-Tool
Deburring Tool

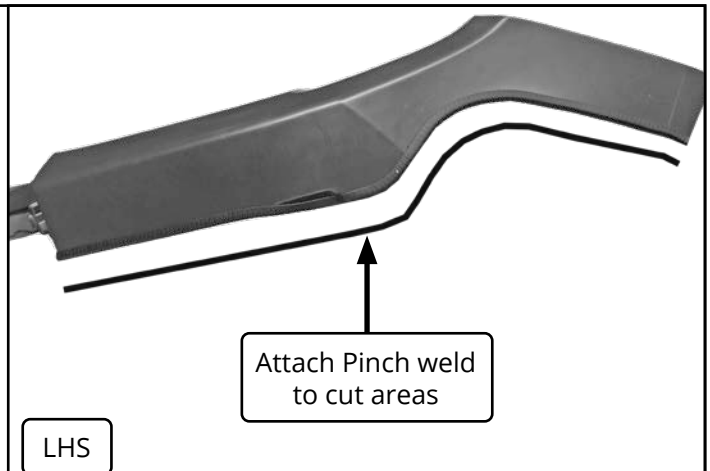


2.18 Cut and apply the pinch weld supplied to suit the trimmed bumper as shown.

Repeat on the other side,



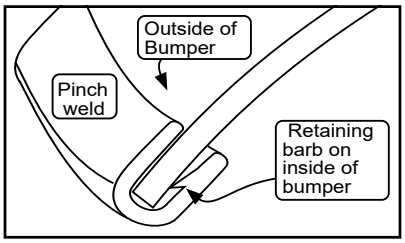
Tool(s) Required: Side cutter



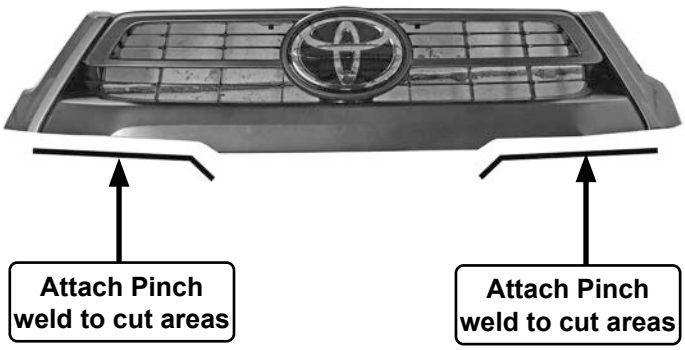
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2.19 Cut and apply the pinch weld supplied to suit the trimmed bumper as shown.

Repeat on the other side,



Tool(s) Required: Side cutter

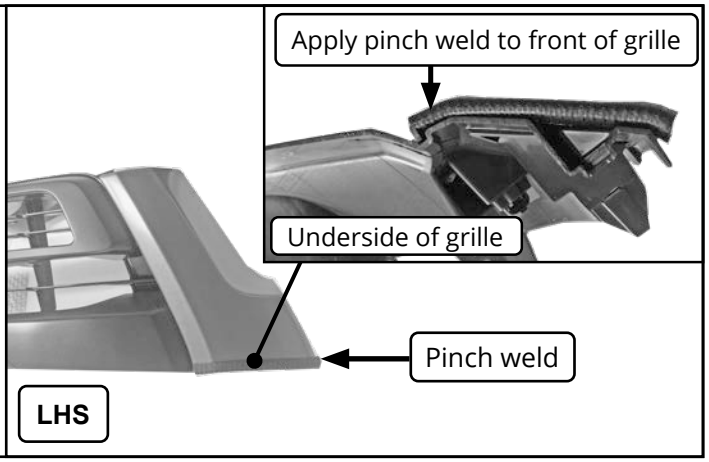


2.20 Cut and apply the pinch weld supplied to the grille as shown as shown.

Repeat on the other side.

NOTE: Ensure to apply pinch weld on the front layer of the grille as shown.

Tool(s) Required: Side cutter



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2.21

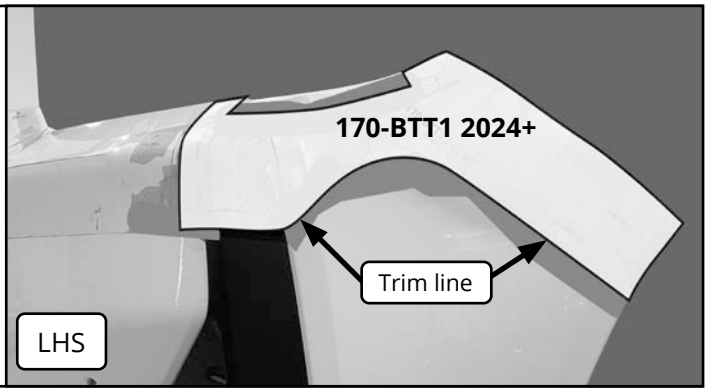


2.22 Cut out **170-BTT1 2024+** template.

Place template on Bumper and mark the trim line as shown.

Flip the LHS template to mark on the other side.

Tool(s) Required: Marking Pen



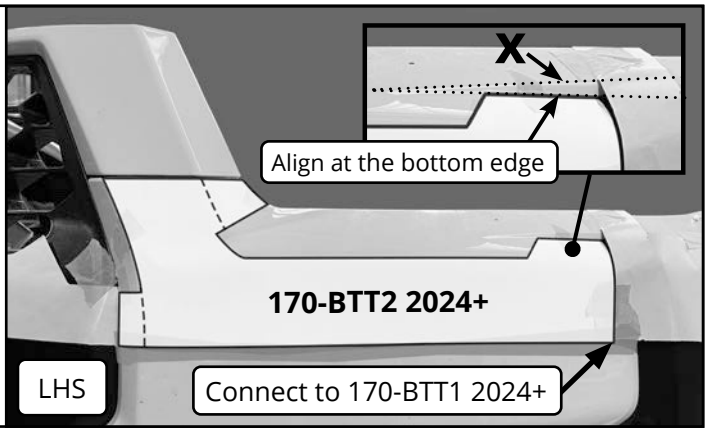
2.23 Cut the **170-BTT2 2024+** template.

Place template on Bumper and mark the trim line as shown.

NOTE: Ensure the template align at the bottom style line as shown.

Flip the LHS template to mark on the other side.

Tool(s) Required: Marking Pen



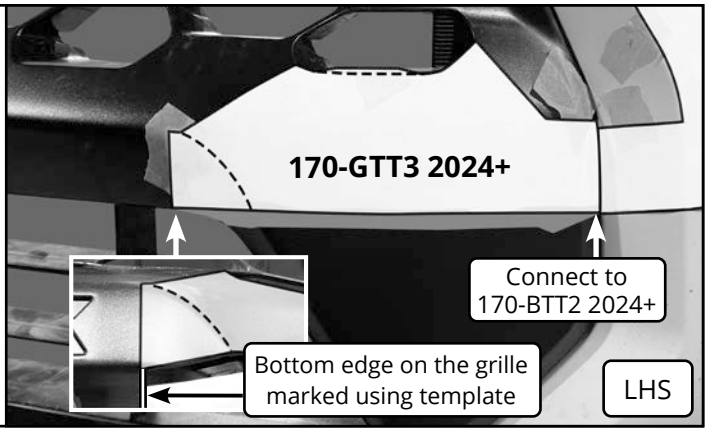
2.24 Cut the **170-GTT3 2024+** templates.

Place template on Bumper and mark the trim line as shown.

Ensure that the bottom edge is marked as shown

Flip the LHS template to mark on the other side.

Tool(s) Required: Marking Pen



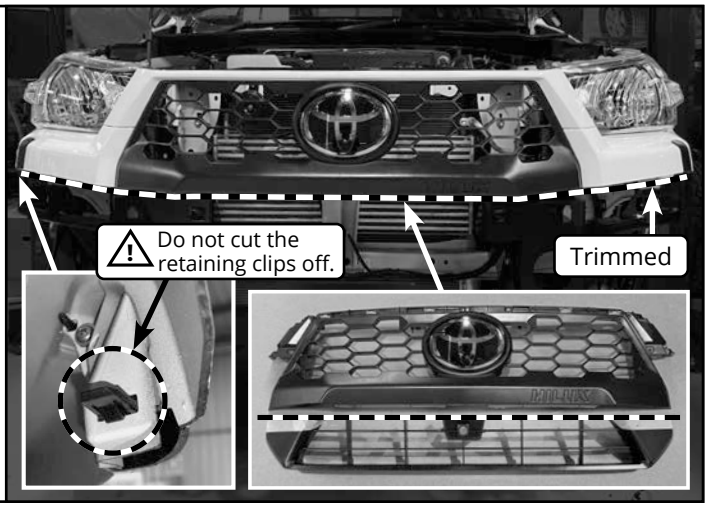
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2.25 Carefully trim the grille and bumper as shown.

Ensure that all the grille fins and the camera housing are trimmed as shown.

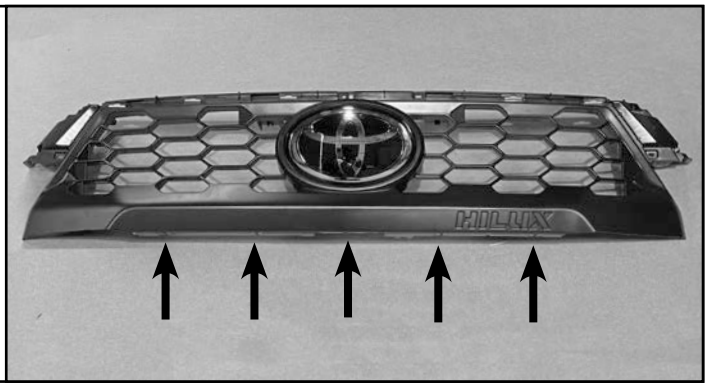
Debur the edges and once the trim is complete.

⚠ **Do not cut the retaining clips on both sides.**



2.26 File off any excess sharp edges at the bottom of the grille as shown.

Tool(s) Required: Filing Tool



2.27 The Trimmed bumper should now look as shown.

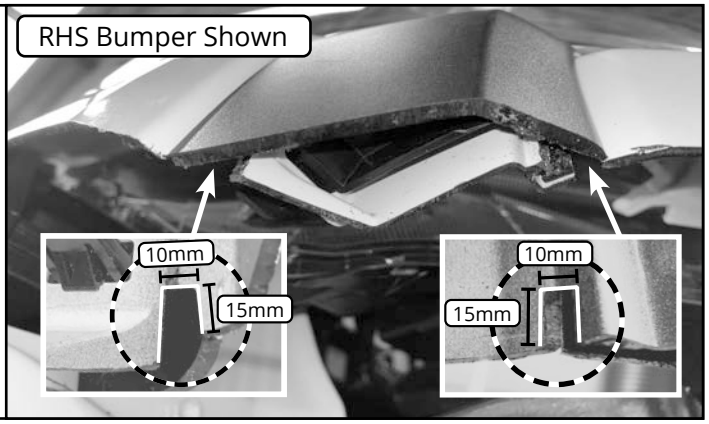


2.28 Cut the back of the bumper layer as shown.

Ensure all swarf is removed.

Repeat on the other side.

Tool(s) Required: Oscillating Multi-Tool



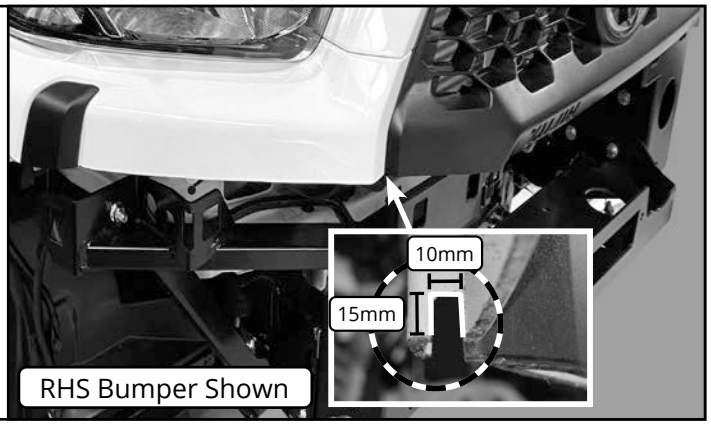
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2.29 Cut the back of the bumper layer as shown.

Ensure all swarf is removed.

Repeat on the other side.

Tool(s) Required: Oscillating Multi-Tool

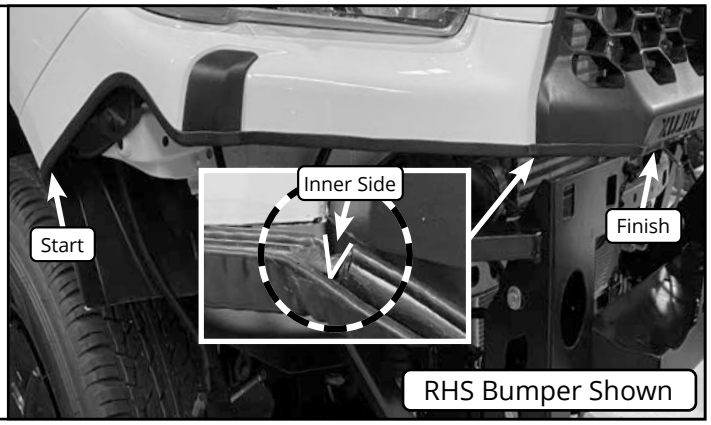


2.30 Apply the pinch weld supplied to suit the trimmed bumper as shown.

Cut the inner side of the pinch weld connecting bumper to grille as shown.

Repeat on the other side.

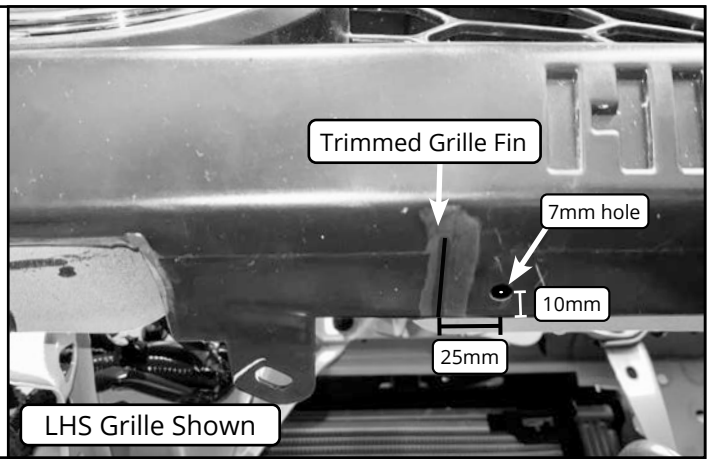
Tool(s) Required: Side cutter



2.31 Measure approximately and drill bottom of the grille through to bumper as shown.

Repeat on the other side

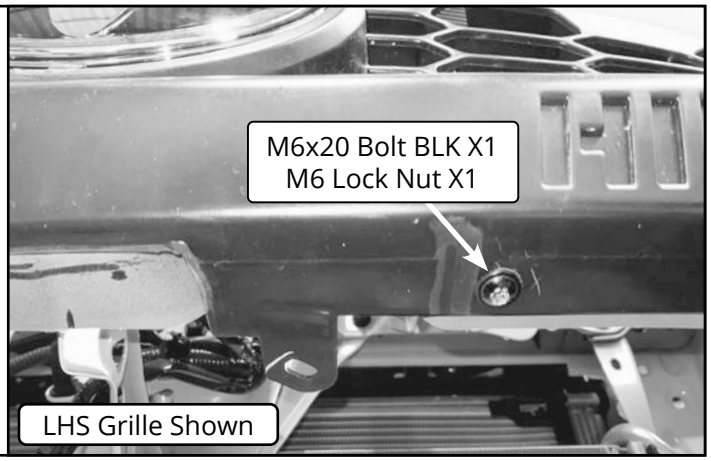
Tool(s) Required: 7mm Drill Bit
Marking Pen



2.32 Fasten the grille and bumper skin together as shown.

Repeat on the other side

Tool(s) Required: 4mm Hex Key
10mm Spanner



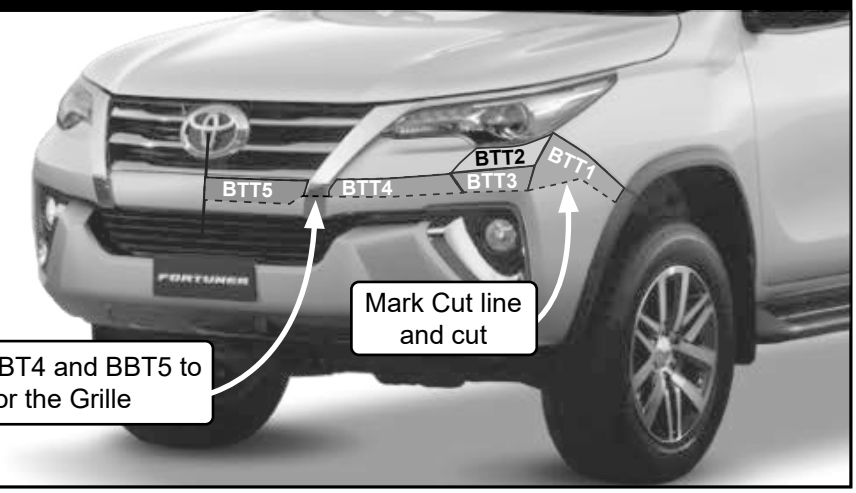
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2.33 Cut all of the templates supplied

Place painters tape around the area that will be marked and apply **all templates** to the bumper as shown.

Flip the LHS template to mark on the other side.



2.34 Carefully trim the grille and bumper separately.

Debur the edge once the trim is complete.

Tool(s) Required: Oscillating Multi-Tool
Deburring Tool

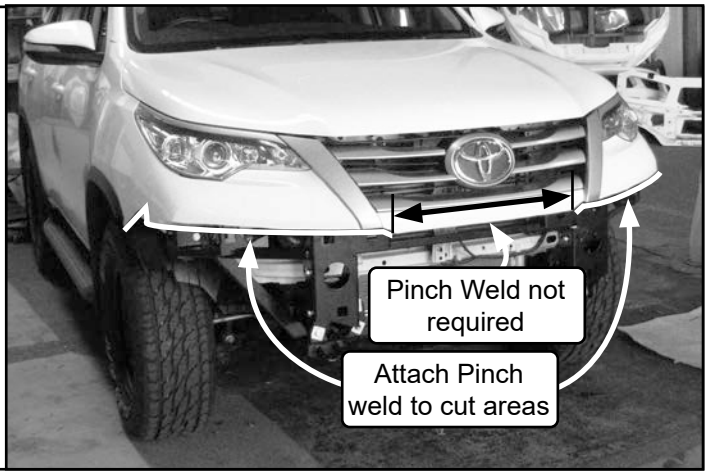


2.35 Cut the supplied pinch weld in half and apply to the grille as shown as shown.

Repeat on the other side.

NOTE: Ensure to apply pinch weld on the front layer of the grille as shown.

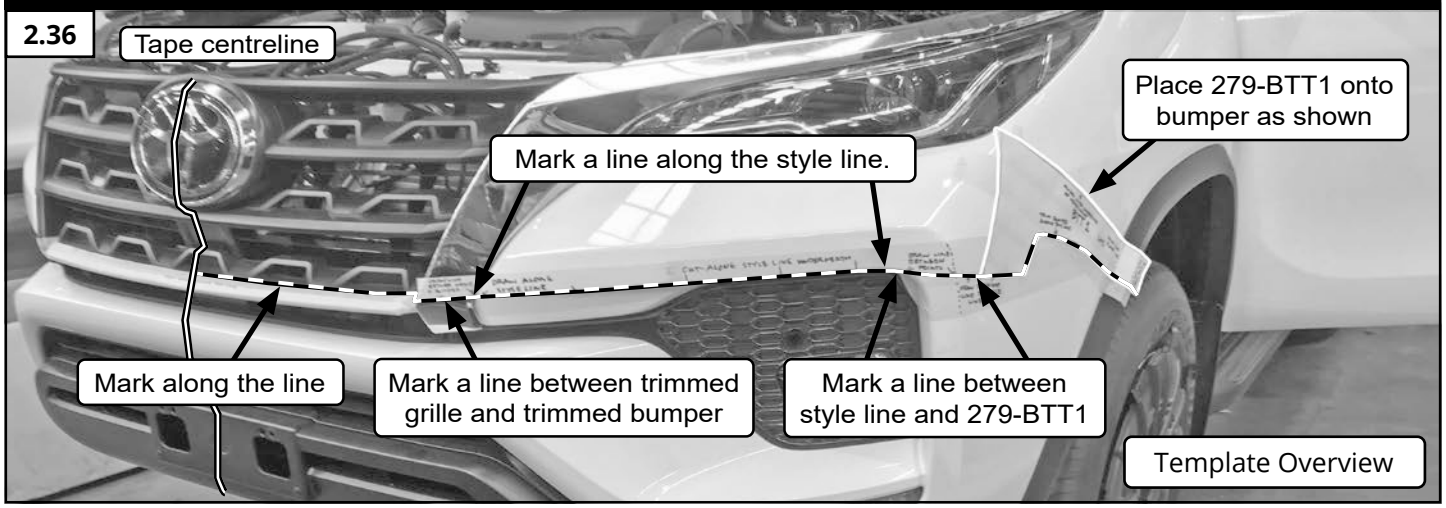
Tool(s) Required: Side cutter



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2.36

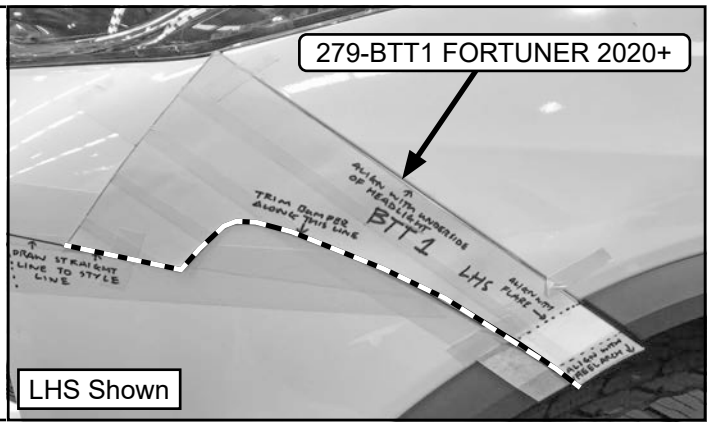


2.37 Cut the **279-BTT1 FORTUNER 2020+** template.

Place painters tape around the area that will be marked and apply **279-BTT1 2020+** to the bumper as shown.

Flip the LHS template to mark on the other side.

Tool(s) Required: Painters Tape
Marking Pen

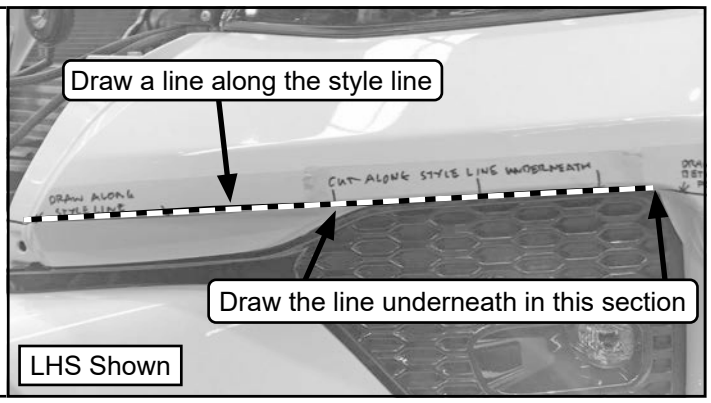


2.38 Place painters tape around the area.

Draw a line along the style line as shown.

Repeat on the other side.

Tool(s) Required: Painters Tape
Marking Pen

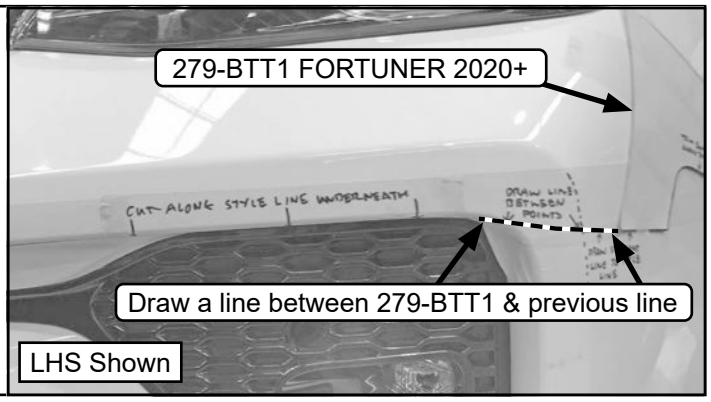


2.39 Place painters tape around the area.

Join a line between previous line and 279-BTT1.

Repeat on the other side.

Tool(s) Required: Painters Tape
Marking Pen



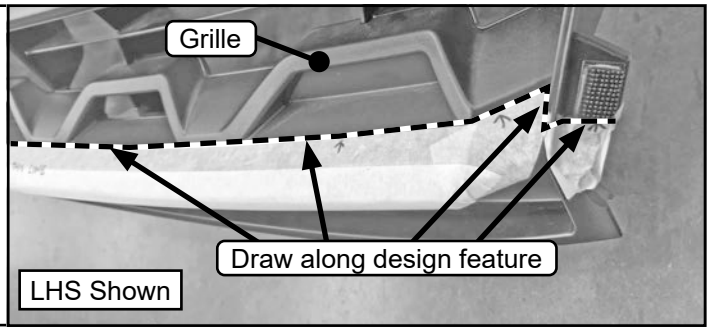
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2.40 Place painters tape around the area.

Mark a line along grille design feature.

Repeat on the other side

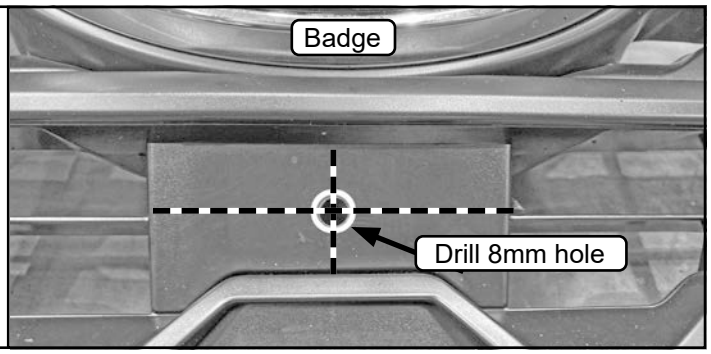
Tool(s) Required: Painters Tape
Marking Pen



2.41 Mark and drill a hole on the grille, underneath the badge as shown.

NOTE: The hole position is centred on the flat.

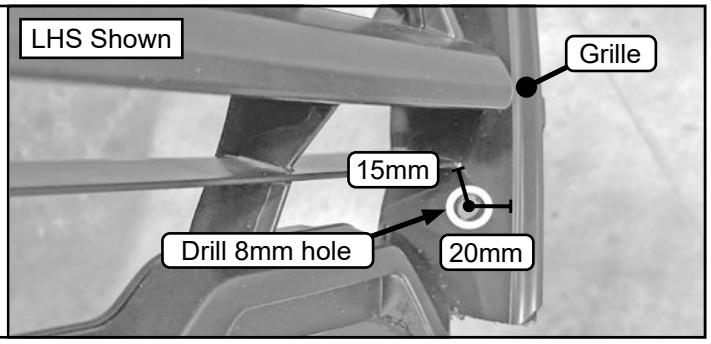
Tool(s) Required: 8mm Drill
Marking Pen



2.42 Mark and drill a hole on the Grille as shown.

Repeat on the other side.

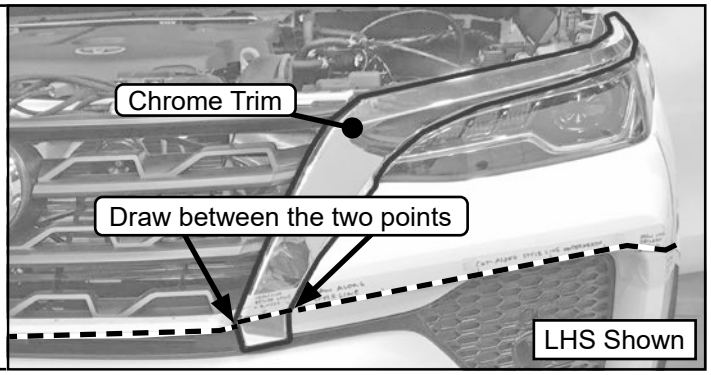
Tool(s) Required: 8mm Drill
Marking Pen



2.43 Draw a line on the chrome trim between the marking from the previous steps as shown.

Repeat on the other side.

Tool(s) Required: Painters Tape
Marking Pen

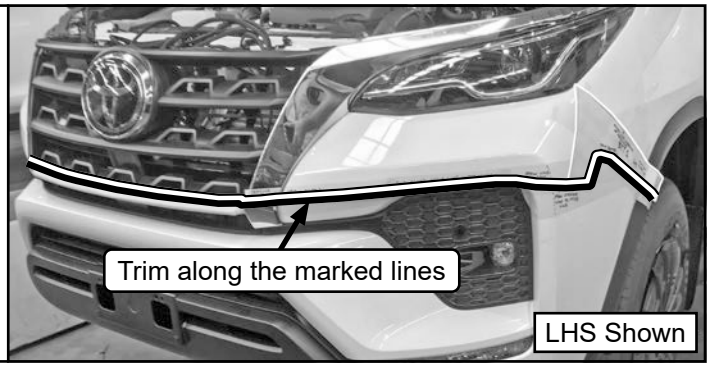


2.44 **Remove bumper and grille prior to trimming.**

Carefully trim the bumper on the marked lines as shown. Repeat on the other side.

Debur the edge once the trim is complete.

Tool(s) Required: Trimming Tool
Deburring Tool



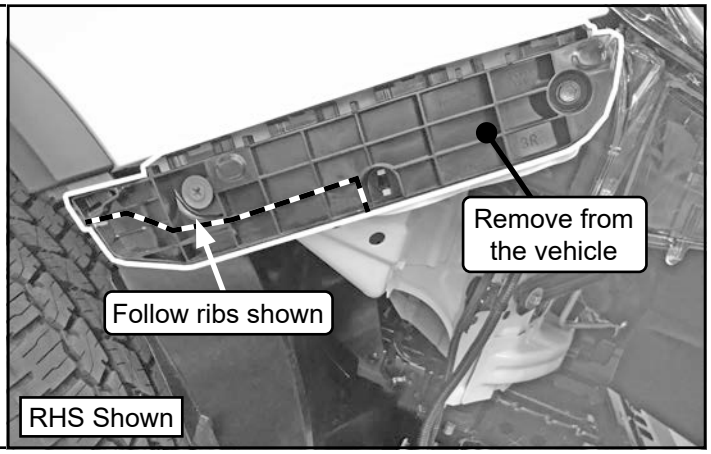
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2.45 Remove bumper retainer from vehicle.

Mark and trim along line as shown.

Repeat on the other side.

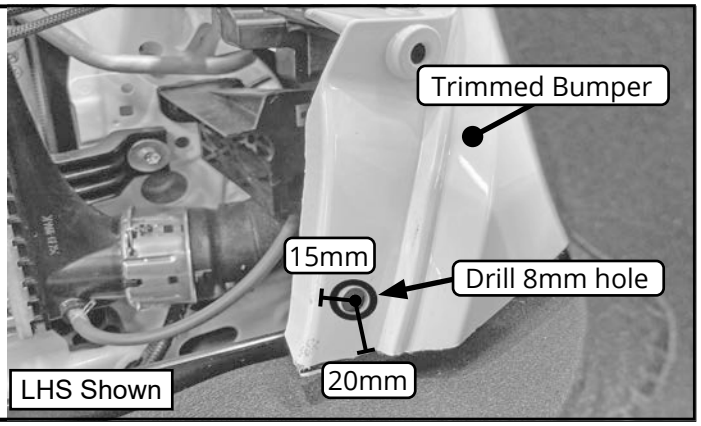
Tool(s) Required: Marking Pen
Trimming Tool



2.46 Remove the Chrome Trim, and drill a hole in the inside surface of the trimmed bumper as shown.

Repeat on the other side.

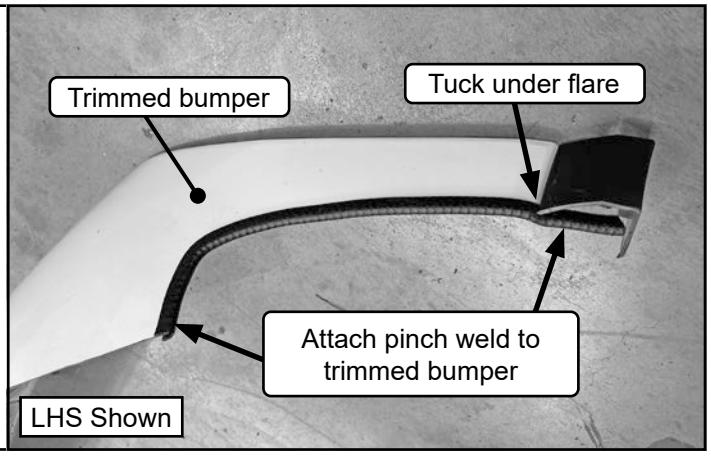
Tool(s) Required: Marking Pen
Trimming Tool



2.47 Cut and apply the pinch weld supplied to suit the trimmed bumper as shown.

Repeat on the other side.

Tool(s) Required: Side cutter

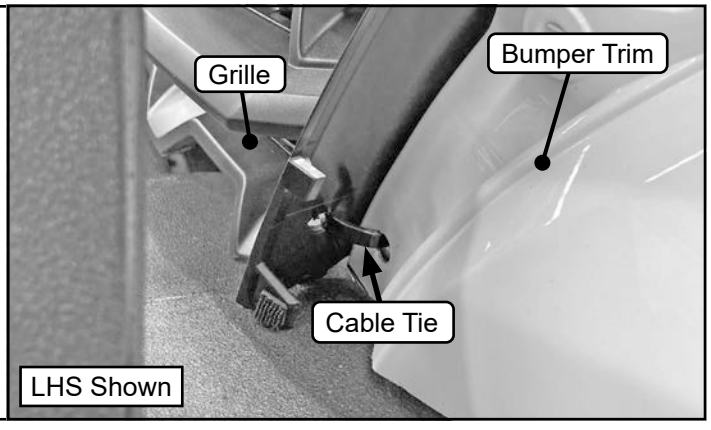


2.48 Attach the Trimmed Grille and bumper using the heavy duty cable tie as shown.

Repeat on the other side.

Gently clips back the chrome trim one the grille is secured on both sides.

Tool(s) Required: Side cutter



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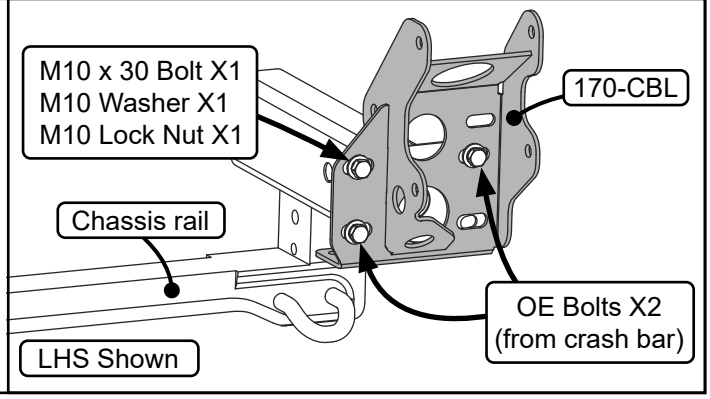
Step 3: Bracket Installation

3.1 Place the 170 CBL over LHS chassis rail. Secure the bracket using the fasteners shown.

Repeat on the other side.

NOTE: Do not fully tighten any of the brackets until final alignment of the bar is finished. This will assist in correctly fitting the bar.

Tool(s) Required: 14mm Socket
16mm Socket/Spanner

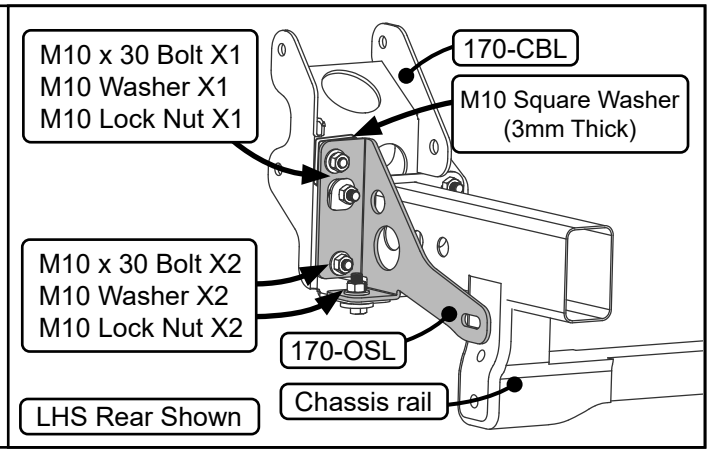


3.2 Place the 170-OSL behind the 170-CBL and attach them together at the bottom two hole locations using the fasteners shown.

Ensure M10 square washer is placed in between 170-OSL and 170-CBL at the top hole.

Repeat on the other side.

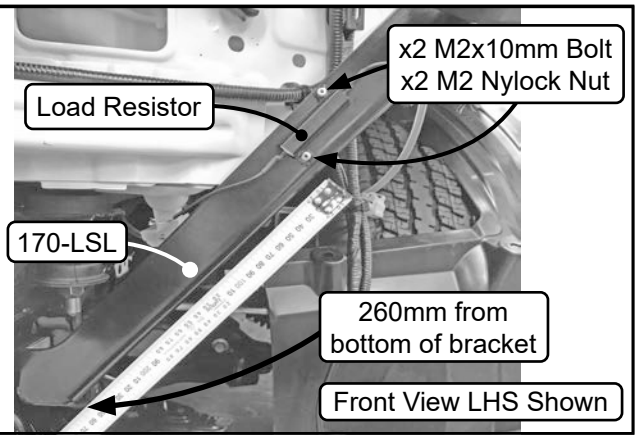
Tool(s) Required: 16mm Socket/Spanner



3.3 **Models w/ OE INCANDESCENT INDICATORS**

Mark and drill 170-LSL and secure load resistor as shown.

Repeat on the other side.

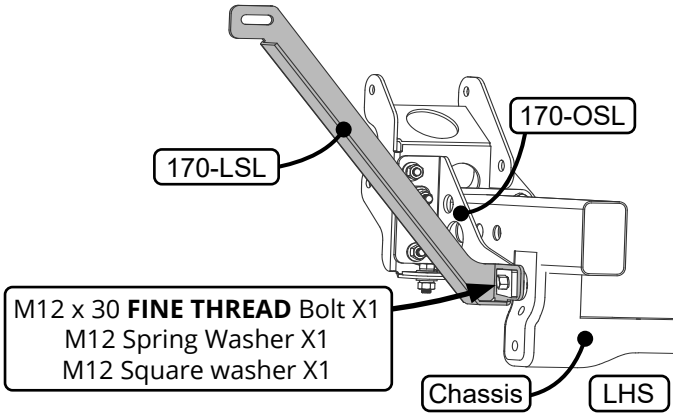


3.4 Fasten 170-LSL as shown.

Leave hardware loose.

Repeat on the other side.

Tool(s) Required: 18mm Spanner

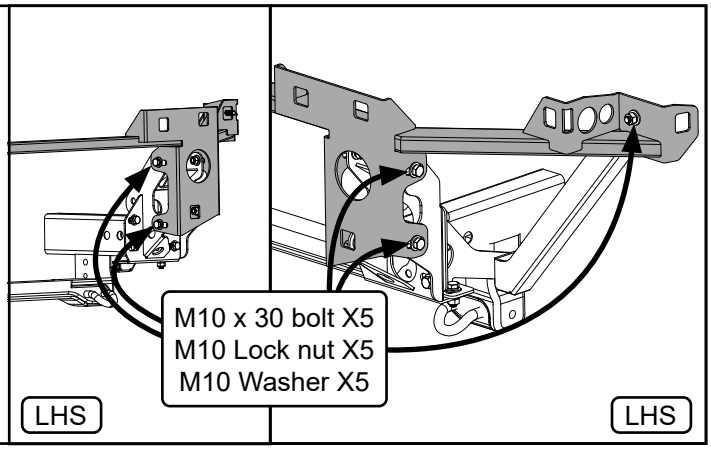


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3.5 Using the fasteners shown, attach the 170-BB to the brackets attached to the vehicle.

Repeat on the other side.

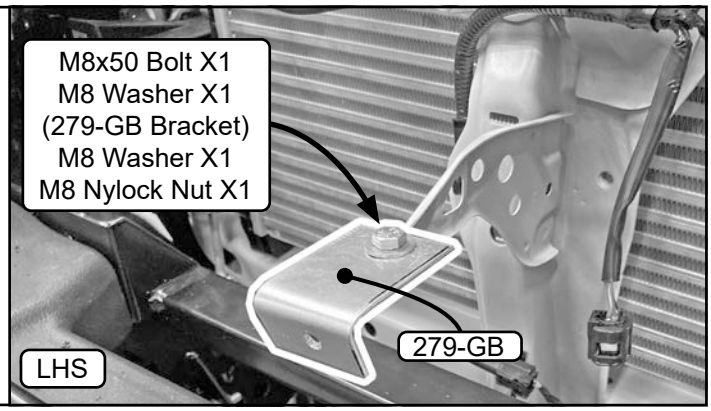
Tool(s) Required: 16mm Socket/Spanner



3.5

06/2020+ FORTUNER Facelift models only

Place 279-GB onto body bracket as shown.



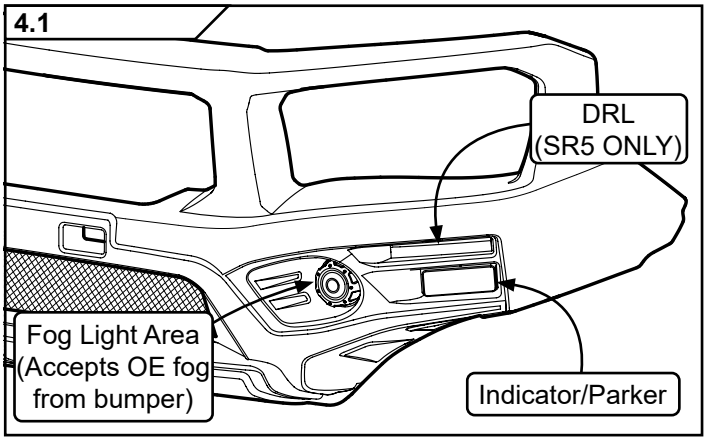
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Step 4 Wiring

NOTE: All wiring should be completed by a qualified auto electrician. SmartBar bears no responsibility for any electrical failure caused by the incorrect fitment of the lights.

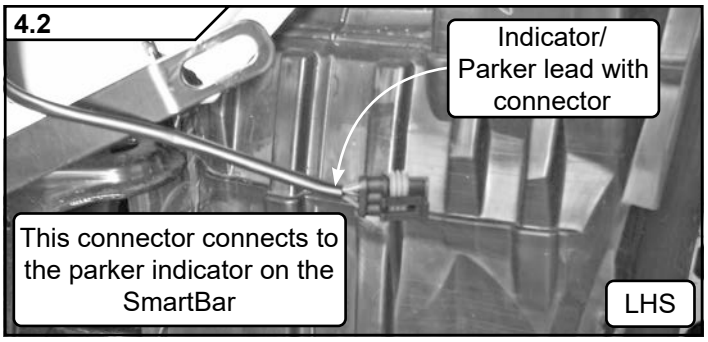
Follow this step only if OPTIONAL WIRING HARNESS purchased.

4.1 Attach wiring harness to vehicle. Harness attaches behind the headlight.



Note: Follow these steps only if you have NOT purchased the OPTIONAL WIRING HARNESS.

4.2 Remove the parker/indictor wiring with connector from the bag attached to the back of the mesh on the SmartBar. Follow the table on the second to last page of this instruction to connect the wiring into the vehicle wiring loom at the head light.

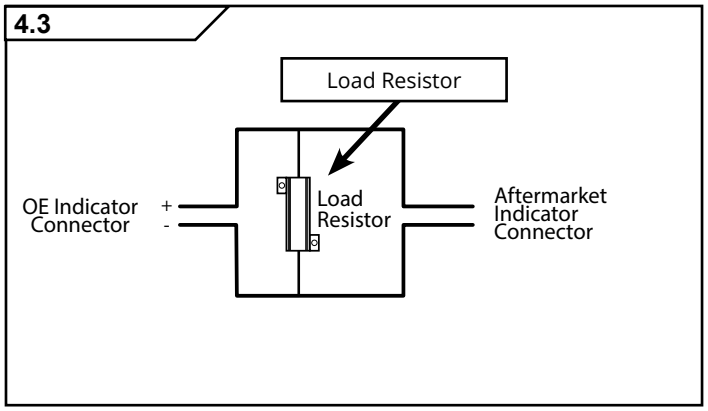


Note: FORTUNER 06/2020+ Facelift models with OE incandescent indicators only

4.3 Install the load resistor across the terminals of both the left and right OE indicator connector as shown.

Note: Load resistor should be fitted to 170-LSL and LSR, wiring must be fixed as to not damage load resistor connection.

Note: Load resistor gets very hot during operation, make sure wiring is not touching it.



4.4 If day time running lights (DRL) are present in the SmartBar follow the instructions on the second to last page of this instruction to wire these to the vehicle.

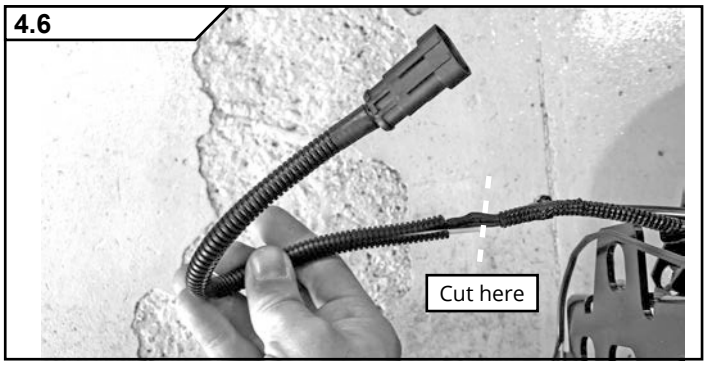
4.5 Using the provided cable, extend the fog light wires by 150mm.

Note: FORTUNER 06/2020+ Facelift models using replacement foglight kit BP80628

4.6 For GXL & Crusade variants, an aftermarket DRL/ fog light kit is required.

Part No: BP80628

Trim the flyleads from the supplied harness as shown as the wiring harness will not be used. The rest of the harness can be discarded.



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Note: FORTUNER 06/2020+ Facelift models using replacement foglight kit BP80628

4.7 Wire up the flylead to the following signals.

Note: The yellow wire (DRL) on the flylead does not require to be wired up.

Cable Colour	Function
Red / White	Fog (+)
Black	Ground (-)



4.8 Route the winch cables through into the engine bay and connect to battery and control box.

CAUTION: Ensure cables are securely fastened away from hot, sharp and moving surfaces.

Step 5: SmartBar installation

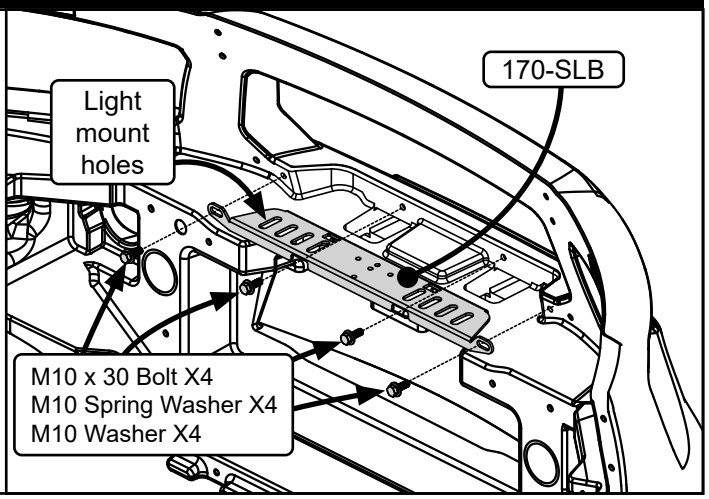
5.1 ⚠ **IMPORTANT: Anti seize MUST be used on all bolts in this step.**

If required Install driving lights/spot lights onto the 170-SLB and install onto the bar as shown.

⚠ **DO NOT OVER TIGHTEN.**

M10 to Maximum of **28Nm**

Tool(s) Required: 16mm Torque Wrench



5.2 ⚠ **IMPORTANT: Anti seize MUST be used on all bolts in this step.**

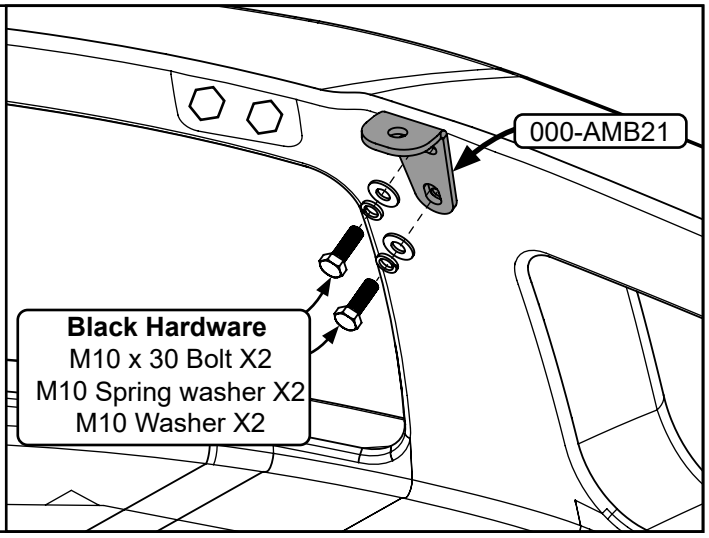
If installing optional aerial mount brackets; remove the plugs and mount **000-AMB21** to the Bar using the hardware shown. **Tighten to 28Nm.**

NOTE: Spartan Bar comes with 2 aerial mount bracket locations on each side.

⚠ **DO NOT OVER TIGHTEN.**

M10 to Maximum of **28Nm**

Tool(s) Required: 16mm Torque Wrench



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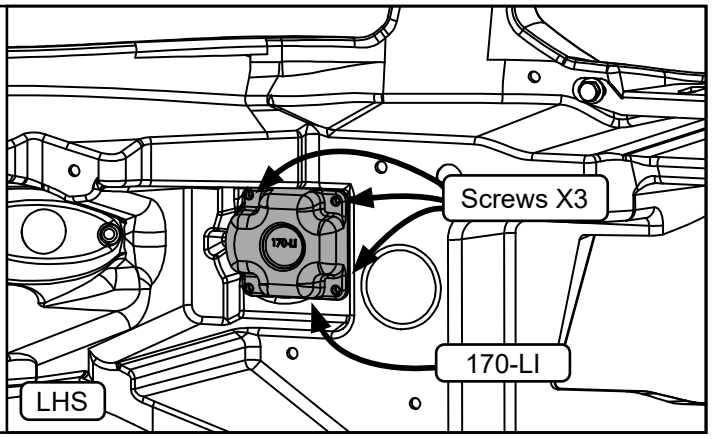
5.3 If present in vehicle, install the fog lights from the vehicle bumper into the SmartBar.

To do this, first remove the 170-LI from the back of the SmartBar by removing the hardware shown.

Repeat on opposite side.

NOTE: If installing **Fog light Kit (BP80628),** Retain all hardware for fitment in **step 5.3.2**

Tool(s) Required: Philips Head Screwdriver

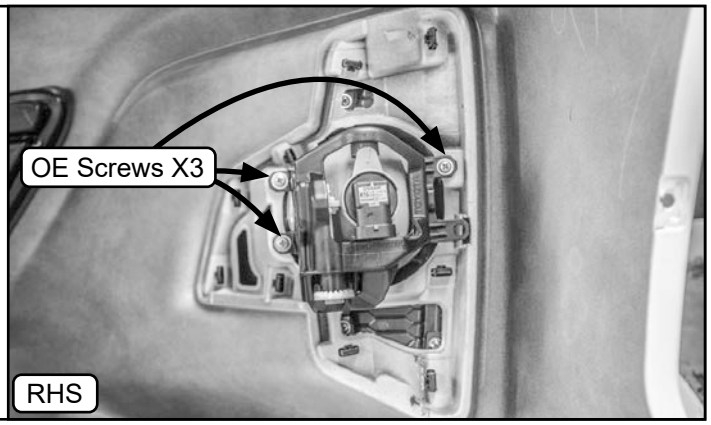


5.3.1 Remove fog light from bumper by removing the fasteners shown.

Repeat on the other side.

NOTE: Retain all hardware for fitment

Tool(s) Required: Philips Head Screwdriver

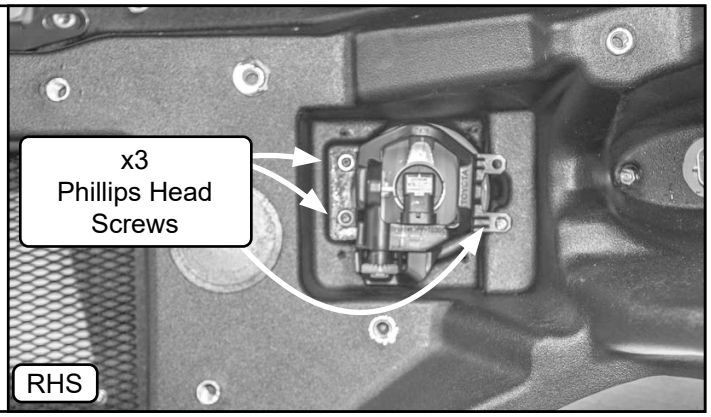


5.3.2 Attach the fog light into the bar using the hardware from step 5.3.1 onto the locations shown.

06/2020+ Facelift models:
If installing Fog light Kit (BP80628)

Install the Fog light using the provided mounting hardware taken from **step 5.3**

Tool(s) Required: Philips Head Screwdriver



5.4 ⚠ **IMPORTANT: Anti seize MUST be used on all bolts in this step.**

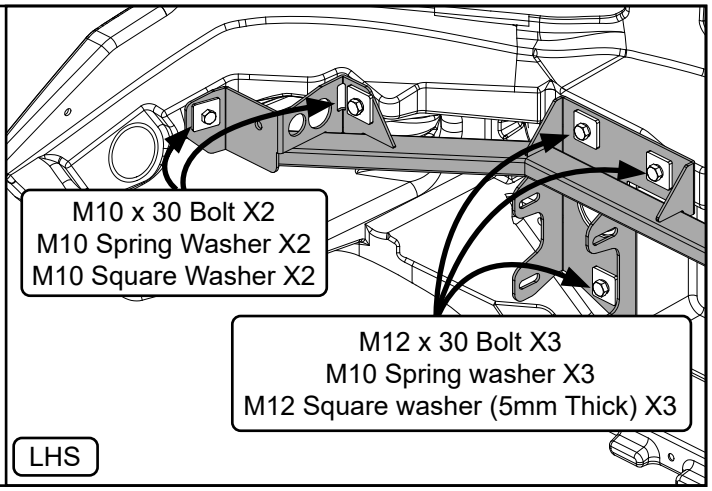
If vehicle has parking sensors, refer to FI-268PSK and connect vehicle wires and bar now.

Attach the SmartBar up against the brackets as shown.

Leave hardware loose

Repeat on the other side.

Tool(s) Required: Philips Head Screwdriver



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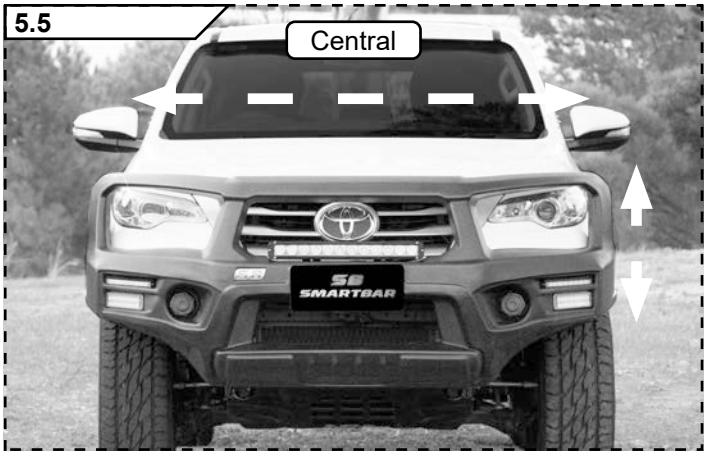
5.5 Align the bar centrally to the vehicle left and right.

Align the height of the bar so that there is approximately a 10mm gap between the top of the bar wing and the trimmed bumper.



5.5 Align the bar centrally to the vehicle left and right.
Align the height of the bar so that there is approximately a 10mm gap between the top of the bar wing and the trimmed bumper.

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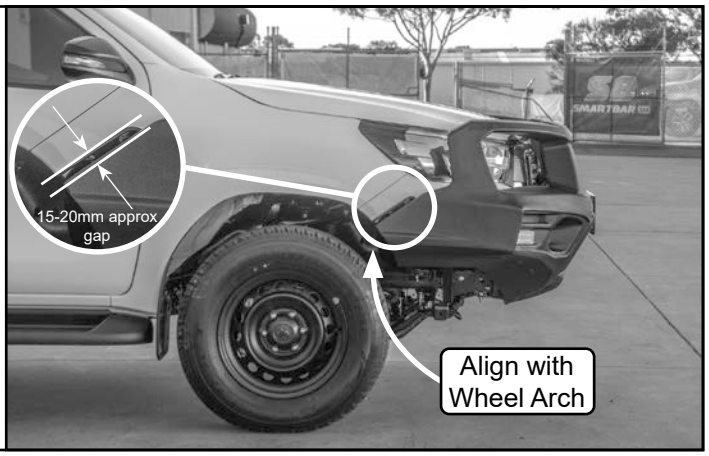


5.6 Check the alignment of the back of the SmartBar wings with the vehicle wheel arch. If required adjust the position of the 170-BB bracket forward or back to achieve required alignment.

Tighten M10 to Maximum of 28Nm
Tighten M12 to Maximum of 55Nm

DO NOT OVER TIGHTEN.

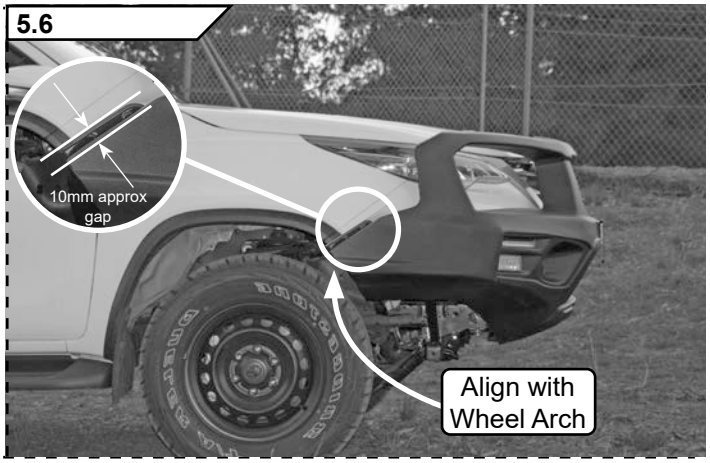
Tighten all other bracket hardware.



5.6 Check the alignment of the back of the SmartBar wings with the vehicle wheel arch. If required adjust the position of the 170-BB bracket forward or back to achieve required alignment.

Tighten M10 to Maximum of 28Nm
Tighten M12 to Maximum of 55Nm
DO NOT OVER TIGHTEN.
Tighten all other bracket hardware.

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5.7 With the Bar aligned, mark the fender liner on each side.

1. Starting at point **[A]** to point **[B]** and mark.

2. From point **[C]** draw horizontal line and mark point **[D]**.

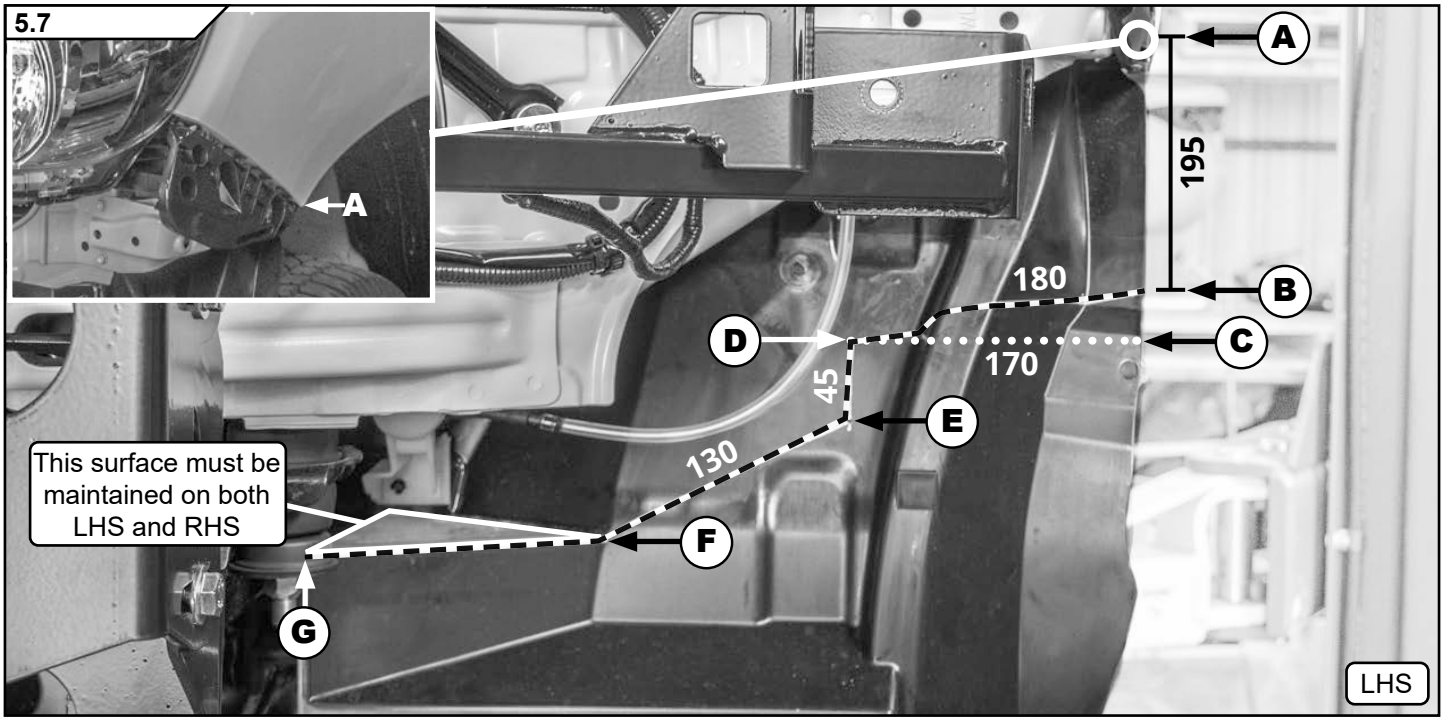
3. Measure and draw a 180mm line from point **[D]** to point **[B]**.

4. From point **[D]** measure and mark a 45mm line vertically down to make point **[E]**.

5. From point **[E]** mark a line to point **[F]** (the corner of the surface to be maintained).

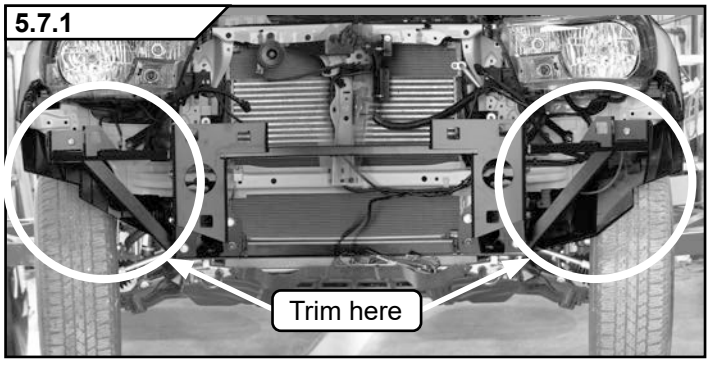
6. From point **[F]** mark a line across the edge of the surface to be maintained to the end, point **[G]**.

7. Trim the line marked from point **[B]** through to point **[G]**. **REPEAT PROCESS FOR OPPOSITE SIDE**.

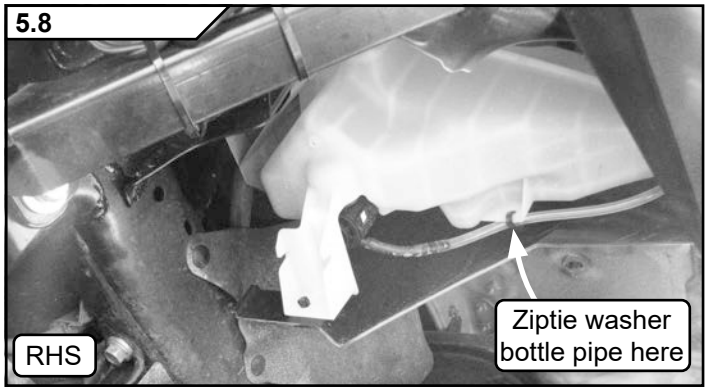


5.7.1 Trim Fender liner as shown.

NOTE: Spartan Bar hidden for clarity.



5.8 With the fender liner reattached, zip tie the washer bottle cable out of the way.



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5.9 Place grille onto bumper, carefully push firmly until clips retain grille.

For TOYOTA HILUX 08/2020+

DO NOT put grille on at this step



5.10 Reconnect all the lights in the SmartBar. Check that all lights operate correctly.

NOTE: If parking sensors are present refer to Fitting Instruction FI-268PSK.



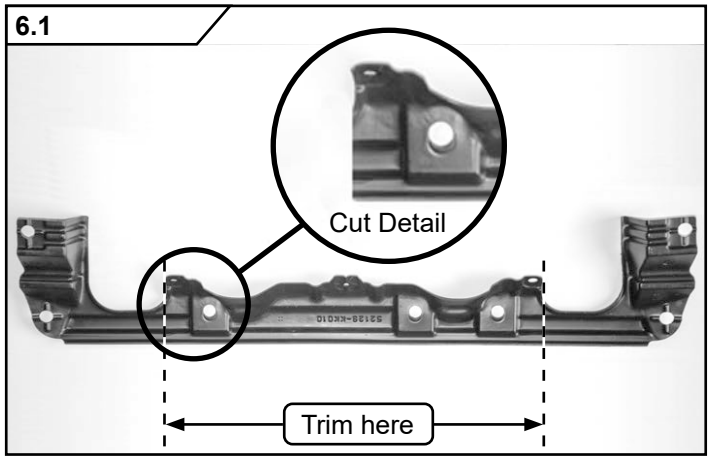
5.11 Reconnect all the lights in the SmartBar. Check that all lights operate correctly.

TOYOTA FORTUNER ONLY



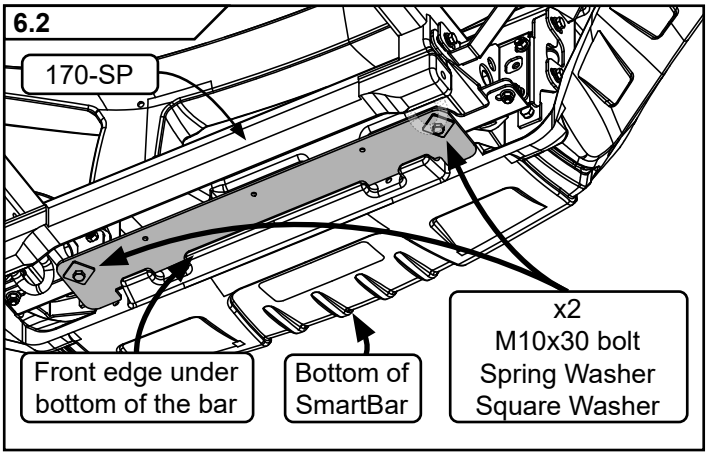
Step 6 Finishing

6.1 Trim the original Skid pan cover as shown.



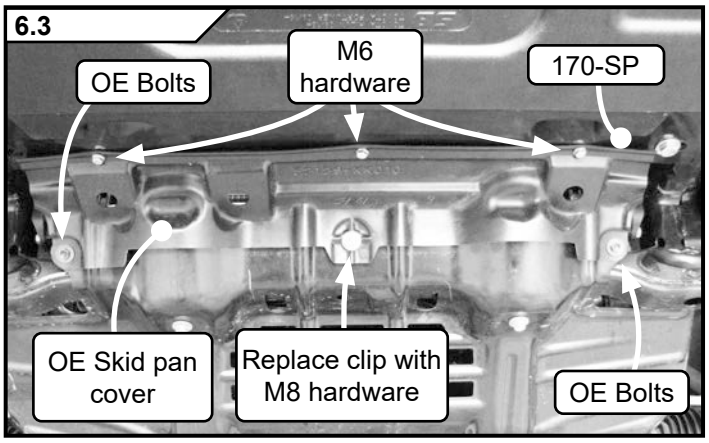
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6.2 Using the provided hardware attach the 170-SP to the 170-CBL and 170-CBR as shown.

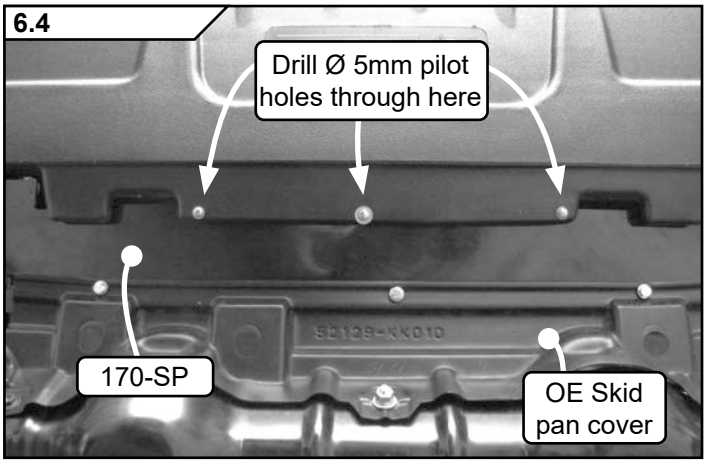


6.3 With the 170-SP in place, reattach the OEM skid pan cover to the vehicle, and mark the holes from the 170-SP onto the OEM skid pan cover. Remove from the vehicle and drill these holes in the cover. Reattach the skid pan cover and attach to the 170-SP with M6 hardware.

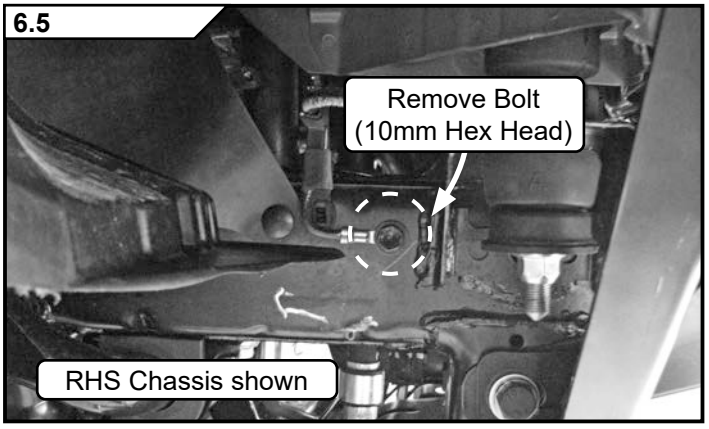
Replace the clip in the middle of the OM skid pan cover with M8 bolt, washers and nut.



6.4 With the 170-SP in place, create a pilot hole through the end of the Smartbar and into the 170-SP. Using the provided hex head screws, screw through the SmartBar into the 170-SP to secure it.

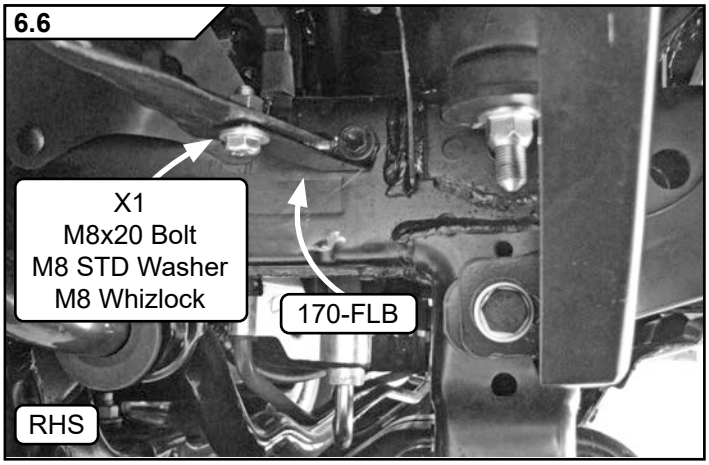


6.5 Remove the hardware shown in the diagram, and remount with the 170-FLB installed. Ensure the earth cable is wedged between the chassis and the 170-FLB.

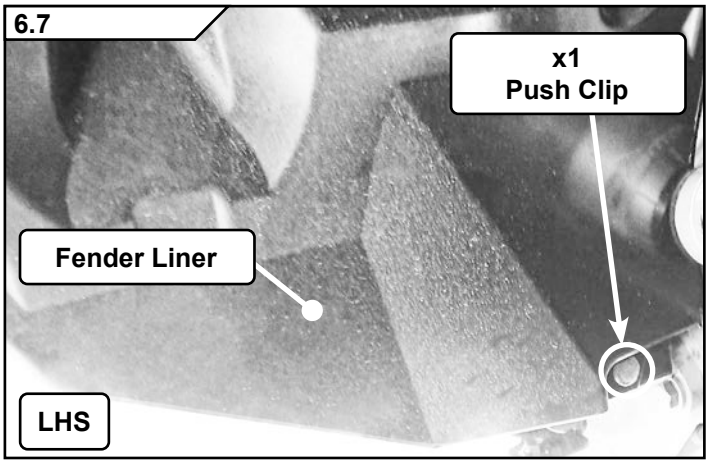


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6.6 Mark and drill a 10mm hole in the fender liner. Attach to the 170-FLB as shown.

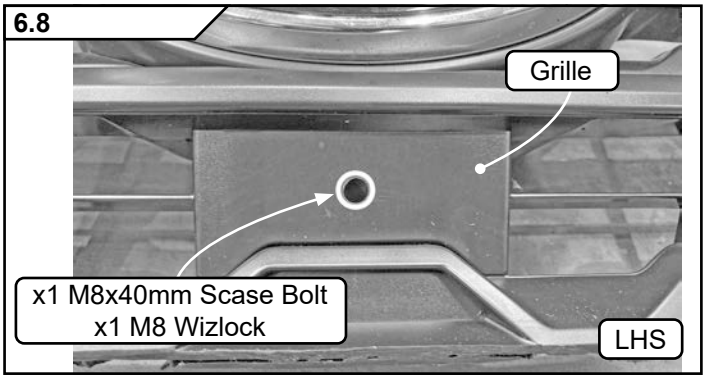


6.7 Clip LHS fender liner into washer bottle.



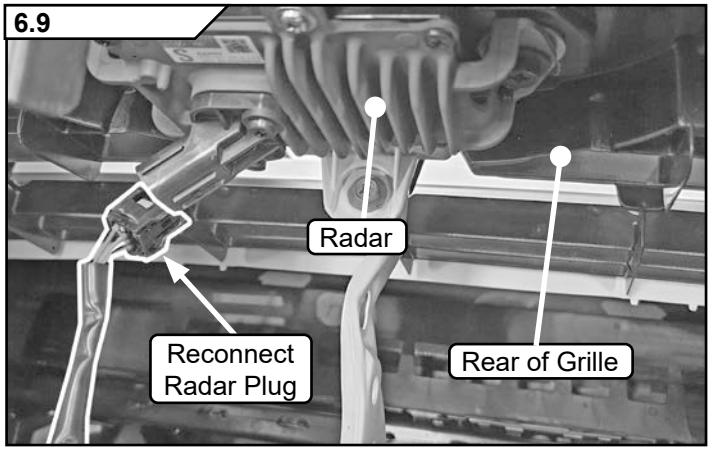
Note: 06/2020+ FORTUNER Facelift models only

6.8 Refit grille, using the hole previously drilled in the grille line up and fix to 279-GB bracket fitted earlier.



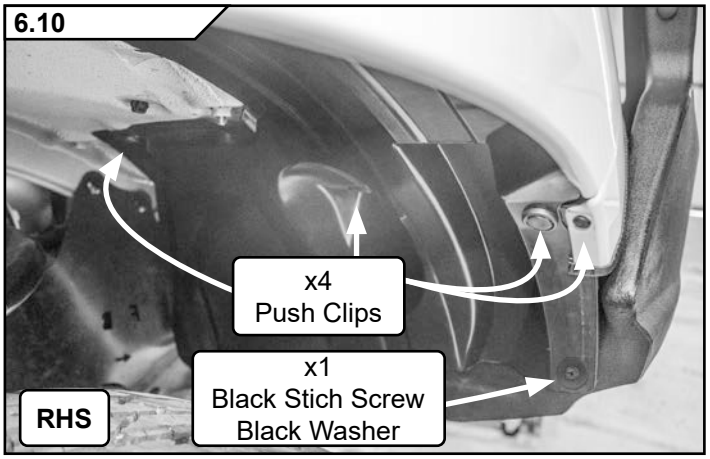
Note: 06/2020+ Facelift models only

6.9 Reconnect radar behind badge.



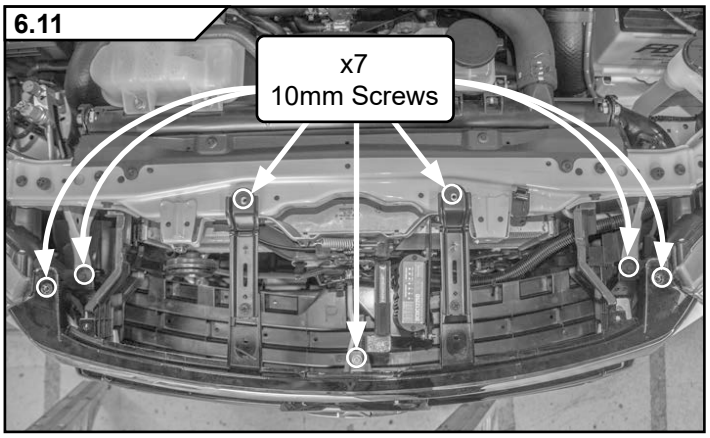
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6.10 Fasten fender liner in to bumper using push clips removed from step 1.7. Insert stitch screw through fender liner into bumper as shown. Repeat process on opposite side

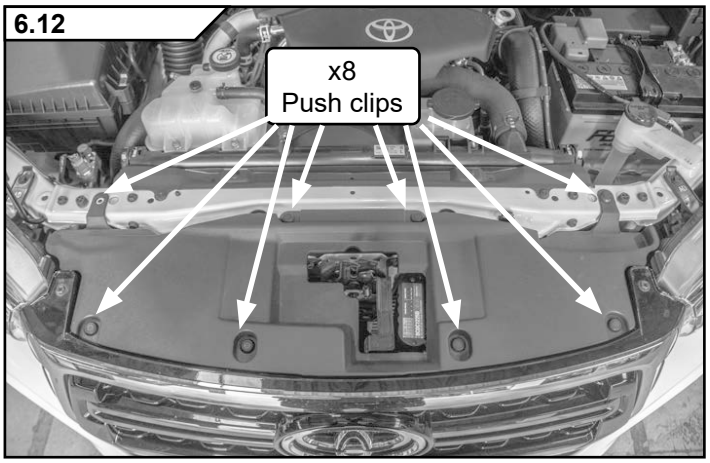


NOTE: For 06/2020+ Facelift models skip to step 6.13

6.11 Re-insert fasteners holding bar and grille to vehicle.

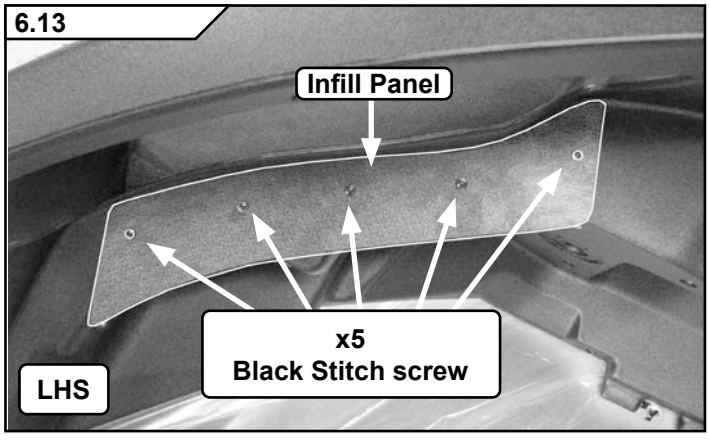


6.12 Place top cover on using original clips.



Note: For 08/18 - 05/20 HiLux Facelift model only

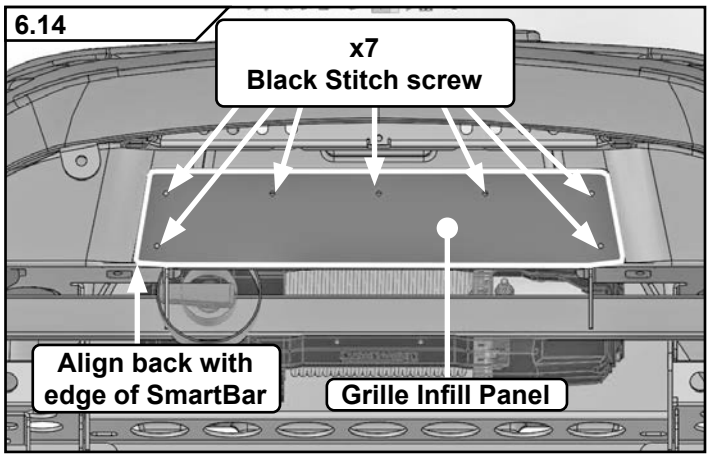
6.13 Attach the infill panel with the supplied hardware as shown, repeat on opposite side.



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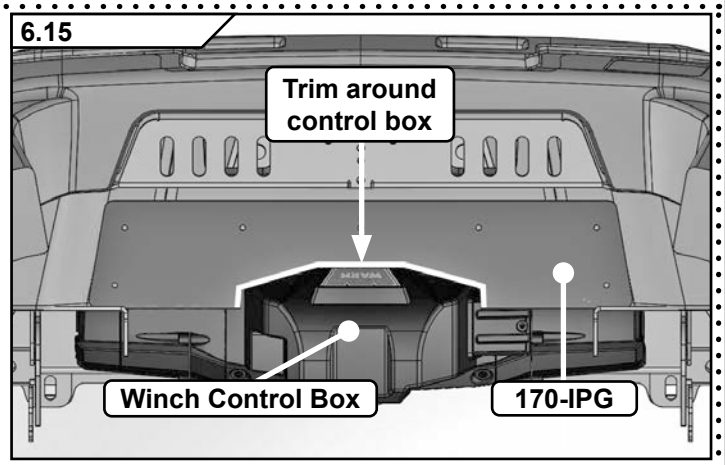
Note: 06/2020+ HiLux Facelift models only

6.14 Attach the infill panel with the supplied hardware as shown, repeat on opposite side.

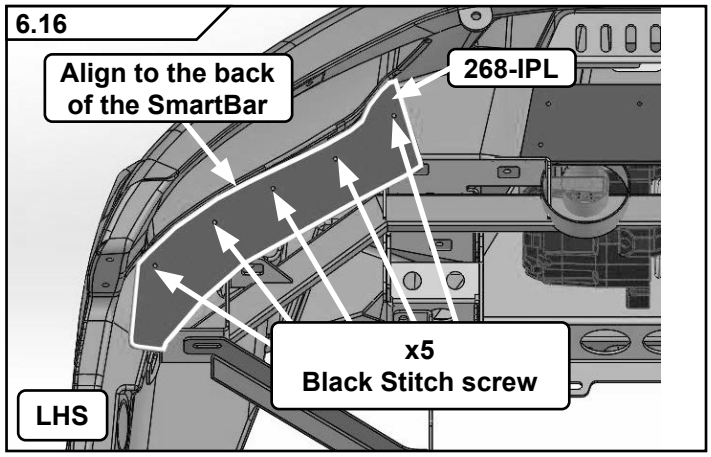


Note: When installing a winch

6.15 Trim 170-IPG as required when fitting winch and control box. Mark 15mm clearance around the control box, cut and discard.

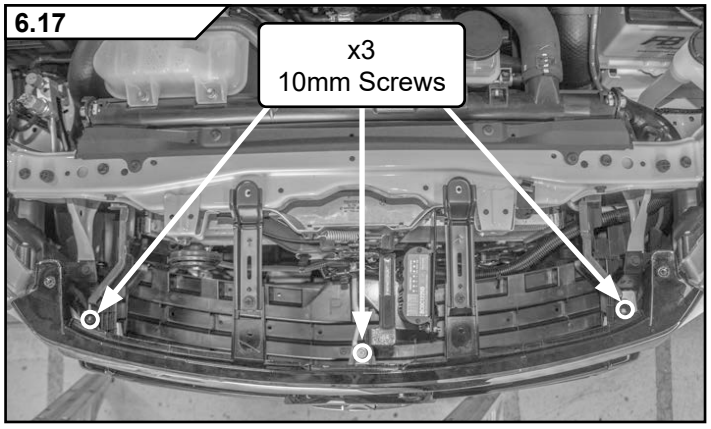


6.16 Attach the infill panel 268-IPL with the supplied hardware as shown, repeat on opposite side.



Note: 06/2020+ Facelift models only

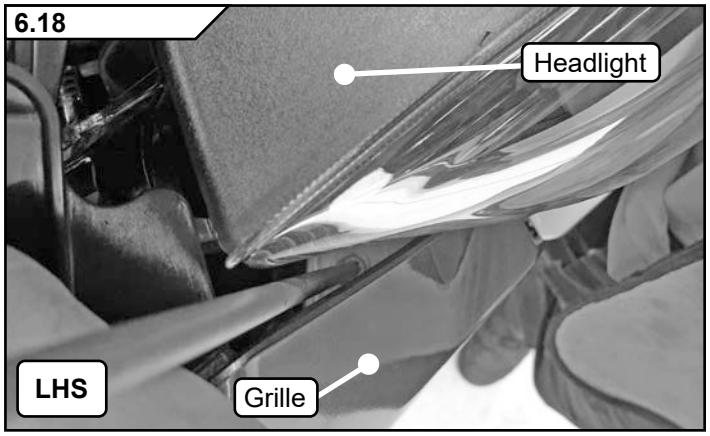
6.17 Place grille in position and fasten as shown.



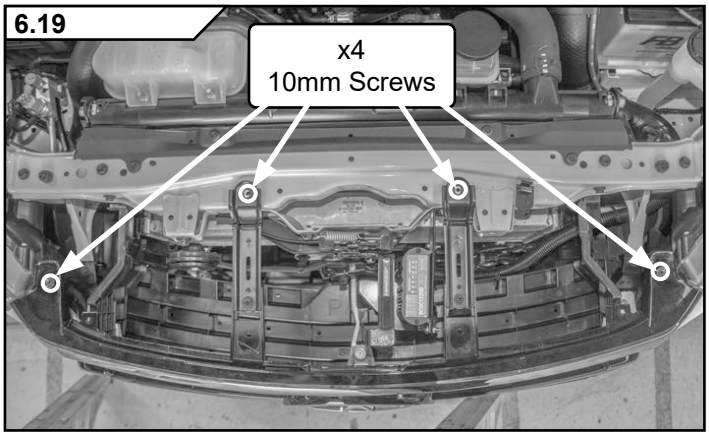
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NOTE: 06/2020+ HiLux Facelift models only

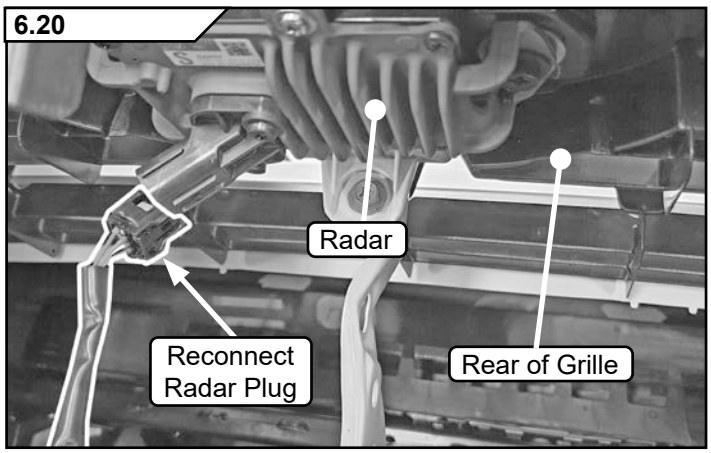
6.18 Pull the grille back to access bumper screw under headlight, both sides.



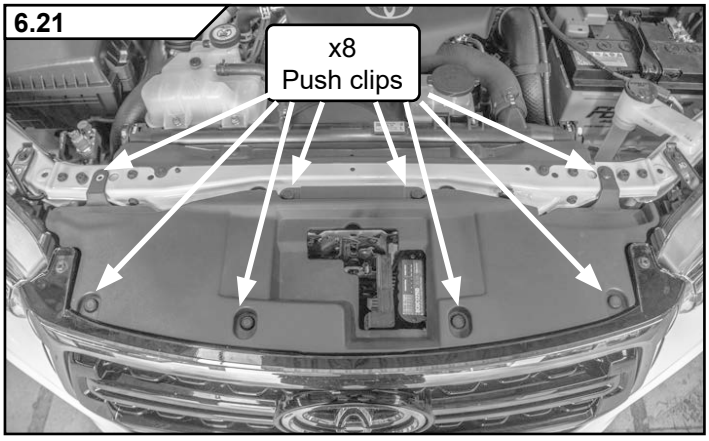
6.19 Replace hardware shown from the grille.



6.20 Reconnect radar behind badge.



6.21 Place top cover on using original clips.



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6.22 Installation is now complete.



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NOTE: Only required for SR5/Crusader MODELS

Day Time Running light Wiring

INSTRUCTION SHEET
for: ***Part No. 5631 / 5631-24V***

Mounting Instructions

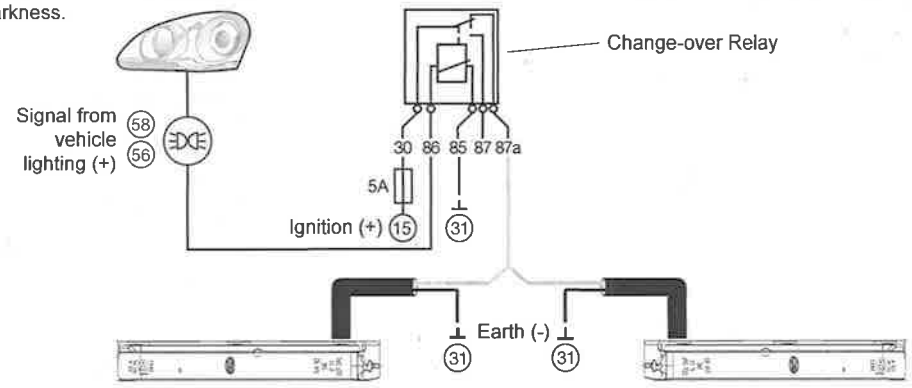
- Drill three Ø3 mm mounting holes through the desired mounting surface to allow fitment of each mounting bracket. Please note there are left and right hand side mounting brackets, see previous page for correct positioning or use the mounting brackets as templates.
- Tighten the mounting screws to secure the mounting bracket (Maximum torque 1.5Nm).
- Push the outer end of the lamp module into the hole at one end of the mounting bracket.
- Adjust the angle of the lamp module inside the mounting bracket so that its centre line is parallel with the ground.
- Push the inner end of the lamp module into the slot of the mounting bracket until it clicks into place.

Wiring Instructions

- It is a legal requirement for daytime running lamps to illuminate only when the ignition is switched ON and the vehicle lighting is switched OFF.
- To meet this requirement it is recommended that a 5 pin change-over relay is utlilised as per the wiring diagram below.

Wire Colour	Connect to	Power Consumption
Black	Terminal 31: Earth (-)	-
Red	Terminal 87a: DRL signal (+)	2 watts

Note 1: Lamps and relay must be protected by a fuse rated at 5 amperes maximum.
Note 2: Lamp is polarity conscious. The reversal of the polarity will not damage this product but will inhibit its function.
Note 3: Daytime running lamps are not a substitute for dipped beam headlights at dusk/dawn or during darkness.



Warranty Statement

Congratulations! The product you have selected comes from Hella - one of the world's leading manufacturers of lighting products. The product comes with a 5 year warranty from end user purchase covering faults in materials, components or workmanship.

In the unlikely event that you should experience a confirmed warranty related problem with your purchase, Hella will, at its discretion, either repair, replace or refund the purchase price of the product.

Warranty services may be obtained by returning the product within the warranty period to the Hella Dealer where the product was originally purchased. This warranty is in addition to and does not preclude any other rights or remedies available to the consumer under any local legislation related to the provision of goods or services.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty does not cover:
1.) Claim/s as a result of normal wear and tear or of any modifications and / or alterations to the product in any shape or form.
2.) Claim/s as a result of non-compliance of the assembly, service and operating instructions and/or any unfit or improper use.
3.) Any expenses incurred in the process of making the claim.

Note: For lamps sold in Australia warranty services are provided by Hella Australia Pty Ltd, 54-76 Southern Rd, Mentone VIC 3194. Customer Service 1800 061 729 custservice@ha.hella.com, http://www.hella.com/produktion/HellaAU/WebSite/Channels/Company/Hella_Australia_Pty/Hella_Australia_Pty.jsp

For general comments about Hella's products please contact us on E-mail at techfeedback@hella.co.nz

Indicator Parker Wiring

CAUTION: Ensure cables are securely fastened away from hot, sharp and moving surfaces.

Cable Colour	Function
RED	Clearance (+)
GREEN	Indicator (+)
BLACK	Ground (-)

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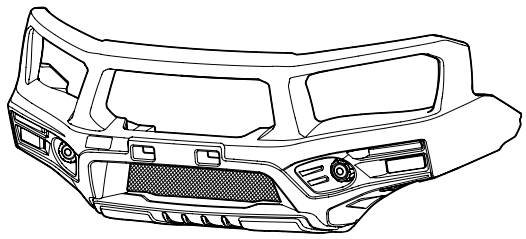
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SA170 SmartBar

Code	Description	Qty	Ok
Various	170 MOULDED BAR	1	
MM50172	149-MESH	1	
6821287	ARB LED PARKER / INDICATOR (Pair)	1	
BP1145	8-15X15BHNPSS BUTTON SCREW GALV	16	
BP1279	10GX1G304PCRST	6	
BP39009	CHRISTMAS TREE CLIPS 266-0052	12	
NA	170-LI LIGHT INFILL	2	
BP80168	SB BAR BADGE	1	

SA170 SmartBar



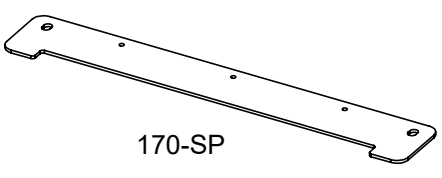
In SA173 (SR5/CRUSADE ONLY)

BP80052	DRL 5631 Hellla (pair)	1	

SA170BK Bracket Kit

Code	Description	Qty	Ok
SA170BKA	SA170 - BRACKETS BOXED KIT	1	
MM50776	170-SP	1	
BP1024	12 X 30 M88Zpb Hex Cad Bolt	6	
BP1062	12X1.25X30 M88Zpb Hex Cad Bolt	2	
BP80388	M6 X 20 FLANGED HEAD BOLT BLK	2	
BP1017	M10 X 30 M8	28	
BP38729	M10 X 30 M88ZPBHEXS BOLT E-Coat Black	2	
BP1140	12Msw M12 Zinc Plt Spring Wash	8	
BP1093	10MZPW M10 WASHERS	30	
BP1139	10MSW M10 ZINC PLT SPRING WASH	20	
BP38767	M10 ECO BLACK WASHERS	2	
BP38750	M10 ECO BLACK SPRING WASHERS	2	
BP1091	6MZPW M6 WASHER	6	
BP1147	084371 10X38X38X3 ZINC PLT SQ	6	
MM1244	12X40X40X5Zpg Square Washer	8	
BP39337	1/4X1X1.6Mm Washer E-Coat Blk	6	
BP1145	8-15X15 BUTTON HEAD NICKLE SCR	6	
BP38781	Screw Stitch 8Gx15Mm Eco Black	6	
BP1146	12X1 ZPPCRST PHIL HEAD SCREW	2	
BP2010	Tank Screw 12-11X35Mm 304 S/L	3	
BP1125	M10 Lock Nut	20	
BP1124	M6 Lock Nut	2	
BP1137	6Msw M6 Zinc Plt Spring Wash	3	
BP25262	6 Mzpn M6 Nut	5	
BP3104	6X20Mzpss M6X20 Set Screw	3	
BP1011	8 X 20 M88Zpb Hex Cad Bolt	2	
BP80412	M8 Lock Nut	2	
BP1092	8Mzpw M8 Washers	2	
BP24784	Pinchweld #ninvf Pw21	3.3	
BP1191	56404 Cable Ties (100)	6	
BP1163	ECA3-500 (3MM WIRE)	1.2	
Packed By:		Date:	

Bagged Parts



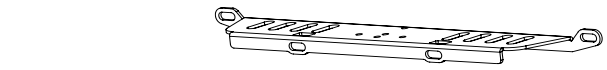
170-SP

SA170BK Bracket Kit

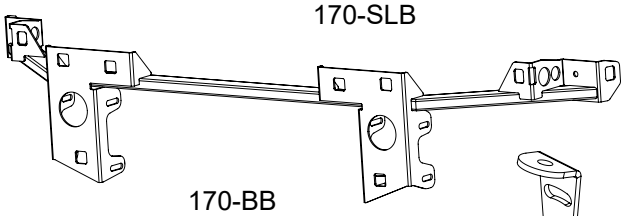
Code	Description	Qty	Ok
BP42962	SMARTBAR WARRANTY CARD	1	
N/A	170-FI	1	
N/A	170-BBT HILUX / FORTUNER	1	
N/A	170-BTT-TOYOTA HILUX 2018 FACELIFT	1	
N/A	170-BTT-TOYOTA HILUX 2020 FACELIFT	1	
N/A	170-BTT-TOYOTA HILUX 2024 FACELIFT	1	
N/A	279-BTT-TOYOTA FORTUNER 2020+ FACELIFT	1	
Packed By:		Date:	

SmartBar Brackets

Boxed Parts

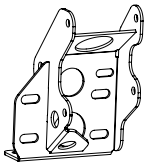


170-SLB

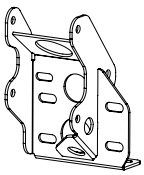


170-BB

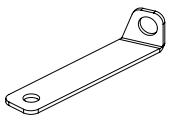
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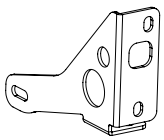
170-CBL



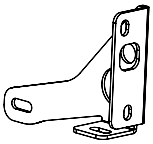
170-CBR



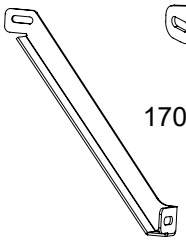
170-FLB



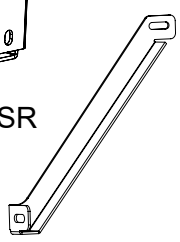
170-OSL



170-OSR



170-LSL



170-LSR

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