

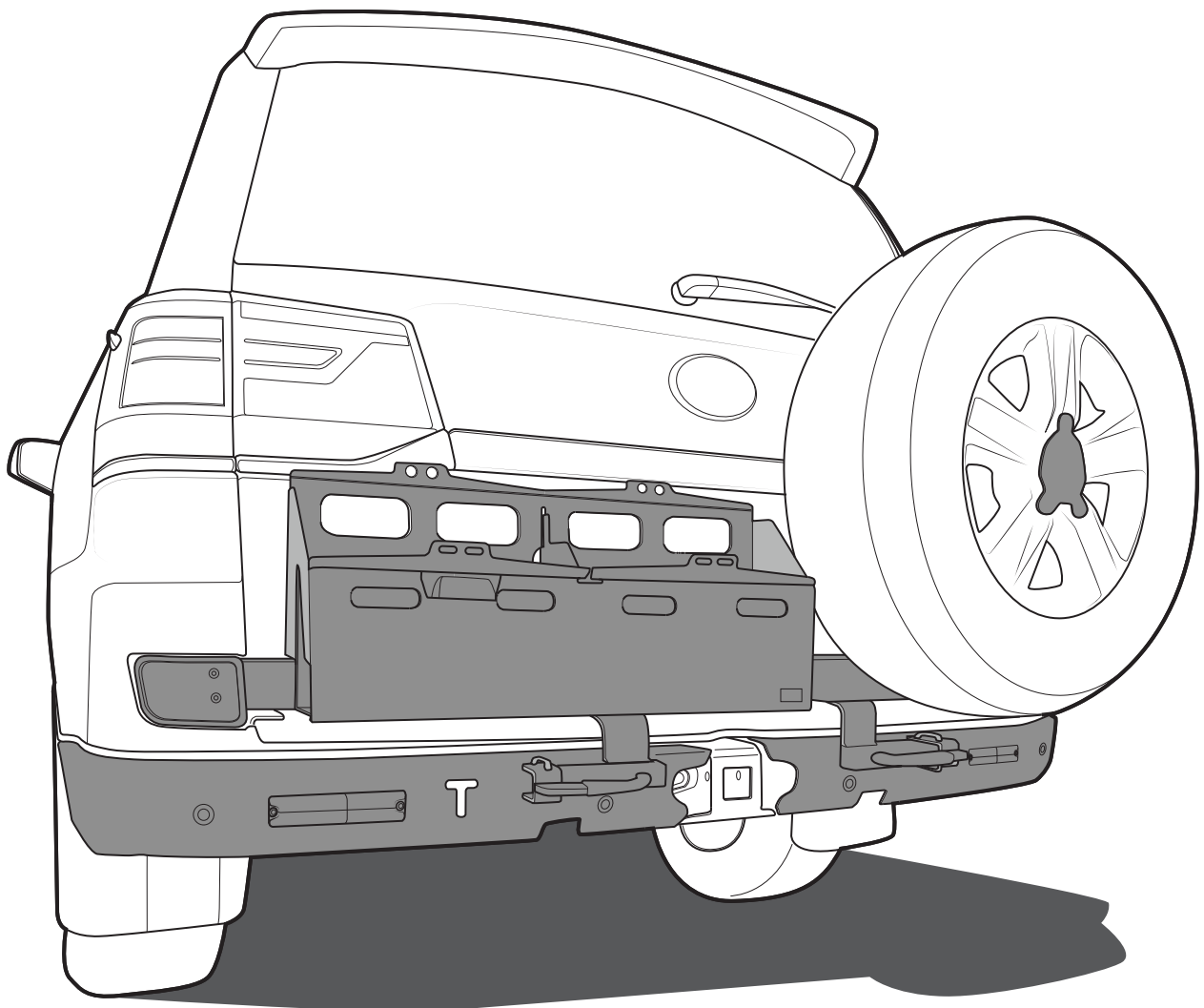
TOYOTA LC200 - BAR & CARRIER

Fitting Instructions for:

Vehicle: **Toyota Land Cruiser LC200**
 Year: **All years**
 Type: **Wagon**
 Fitment: **Kaymar LC200 Bar & Carrier Fitment**

Applies to Kaymar Kits:

KIT200, KIT200L-JC, KIT200R-JC, KIT200FLGXL, KIT200FLGXL-L-JC, KIT200FLGXL-R-JC, KIT200FLVX, KIT200FLVXL-JC, KIT200FLVXR-JC, KIT200-S, KIT200L-S-JC, KIT200R-S-JC, KITGX200, KITGX200L-JC, KITGX200R-JC, K20020L, K20020R, K20022L, K20022R, K20023L, K20023R, K20025L, K20025R, K20026L, K20026R, K20027L, K20027R



 **CAUTION**

Ensure correct tools & appropriate PPE are used whilst installing this accessory

 **CAUTION**

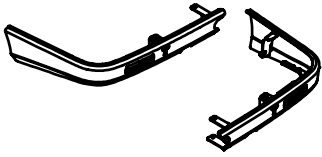
This kit weighs in excess of 15kg. Seek help to lift if required.

CARE INSTRUCTIONS

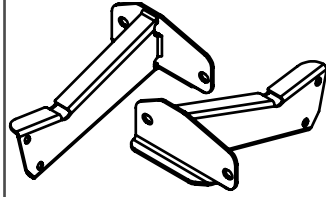
Wash with regular car wash products. Regularly check bolt torque settings.

KAYMAR LC200 COMPONENTS

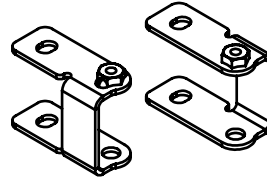
1 Bar Assemblies L&R



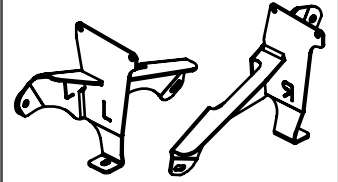
2 Wing Braces L&R



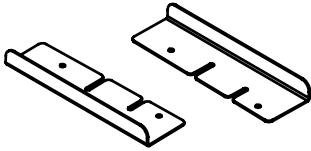
3 Chassis Mount Bracket L&R



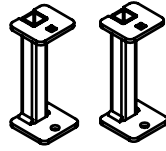
4 Mudflap Brackets L&R



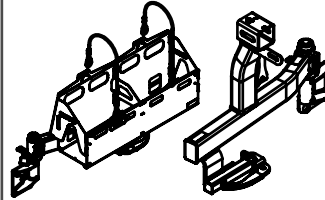
5 Bumper Supports L&R



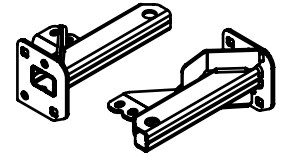
6 Square Tube Spacer x2



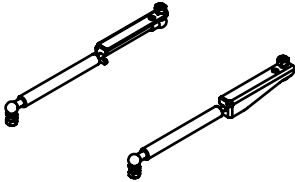
7 Carrier Assemblies



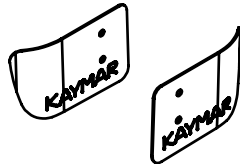
8 Corner Brackets L&R



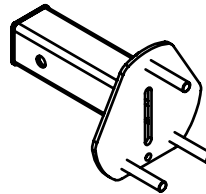
9 Gas Strut w/ lock L&R



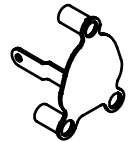
10 Reflector Cover Plates L&R



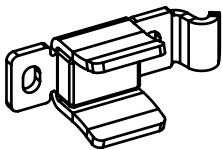
11 Top Slide



12 Lock Plate



13 Catch



 IMAGES OF KAYMAR COMPONENTS AND VEHICLE ARE FOR REPRESENTATIVE PURPOSE

TOOLS REQUIRED

- Protective tape (masking tape)
- Metric Sockets and Spanners
- Torque Wrench
- Trim tool
- Scissors
- Drill (including step drill)
- Angle Grinder or Oscilating Multi Tool
- Die Grinder or Dremel

BOLT KIT CONTENTS

Rear Bar Bolt Kit - BK20000

Supplied with bar

Description	Qty
M6x20 Black Phillips Head Bolt	8
M6 Serrated Flange Nut	8
M14x110 Hex Head Bolt	2
M10x30 Hex Head Bolt	4
M10x150 Hex Head Bolt	2
M14 Plain Washer	8
M14 Spring Washer	8
M10 Plain Washer	12
M10 Spring Washer	6
M14 Hex Nut	6
M10 Hex Nut	6
M6x40 Zinc Phillips Head Bolt	2
M6 Nylon Hex Nut	2
3/16" SS Rivet	4
M14x40 Hex Bolt on 300mm Wire	4
14x8mm Pinch Weld	3
65x21.3 Round Spacer Tube	2
M12x110 Hex Head Bolt	2
M12 Plain Washer	2
M12 Spring Washer	2
Chassis Bar Mount Bracket LH	1
Chassis Bar Mount Bracket RH	1
Foam Spacer w/ 9mm Hole	2

Bolt Torques

Individual steps will provide torque required for fasteners

Bolt	Torque
M14x110 Hex Head Bolt	140 Nm
M14x40 Hex Bolt on 300mm Wire	140 Nm
M14x35 Hex Head Bolt	140 Nm
M12x110 Hex Head Bolt	77 Nm
M12x50 Hex Head Bolt	89 Nm
M12x30 Hex Head Bolt	89 Nm
M10x150 Hex Head Bolt	44 Nm
M10x45 Hex Head Bolt	62 Nm
M10x30 Hex Head Bolt	62 Nm

Standard Carrier Kit - BK6147

1 x BK6147 kit supplied per carrier

Description	Qty
Kaymar Carrier Catch w/ rubber block	1
Nut Plate	1
M10x45 Hex Head Bolt	2
M12x30 Hex Head Bolt	4
M12x50 Hex Head Bolt	2
M10 Plain Washer	2
M10 Spring Washer	2
M12 Spring Washer	6
8mm Kaymar Double Slot Packer	1
14x8mm Pinch Weld	1
Anti-scratch clear protector sticker	1
M14x35 Hex Head Bolt	2
M14 Plain Washer	2
M14 Spring Washer	2
Kaymar Chassis Nut on Wire	2
M12 Plain Washer	6
Stick-on Red Reflector	1
8x5mm 1m Long Pinch Weld	1

LC200 Door Stop Kit - BK6148

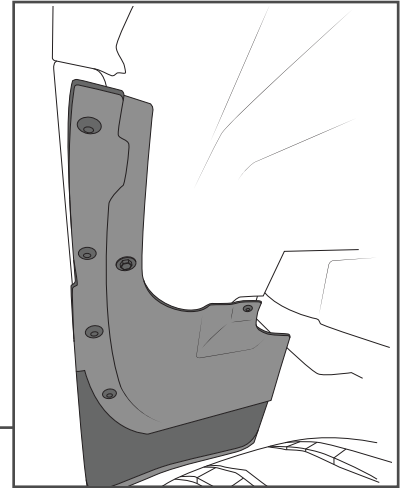
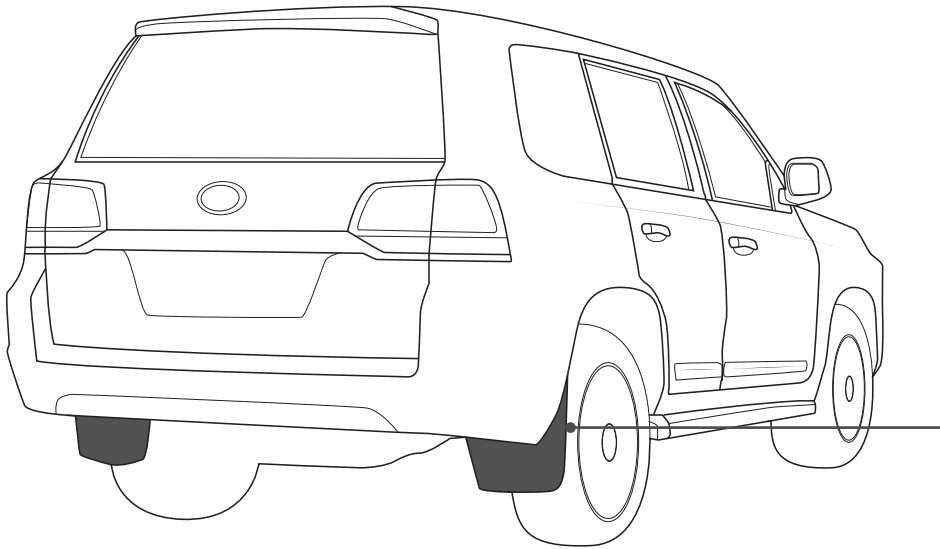
1 x BK6148 kit supplied per carrier (Only applies to LC200 GX Barn Door Models)

Description	Qty
LC200 Door Stop Rubber Packer	2

 ENSURE ALL HARDWARE AND COMPONENT QUANTITIES ARE CORRECT BEFORE BEGINNING INSTALLATION.

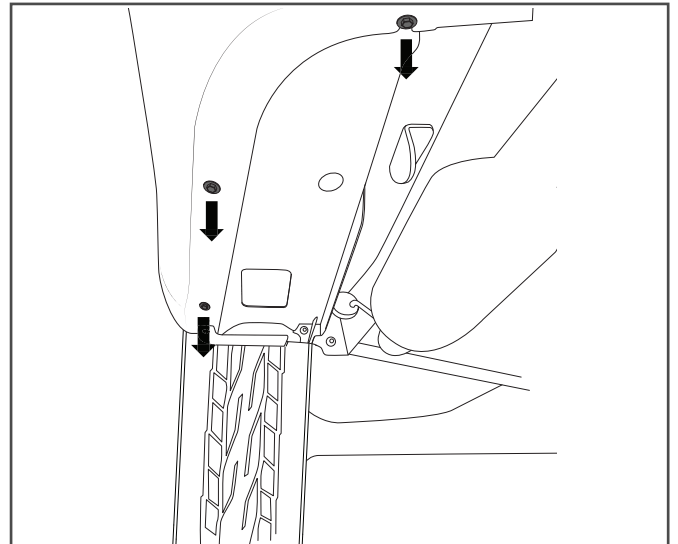
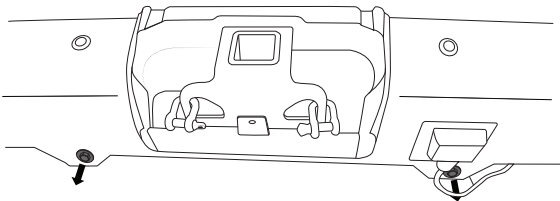
STEP 1 - Remove Fasteners

Undo and remove the screws and retainer clips holding the mudflaps in place and remove the mudflaps.



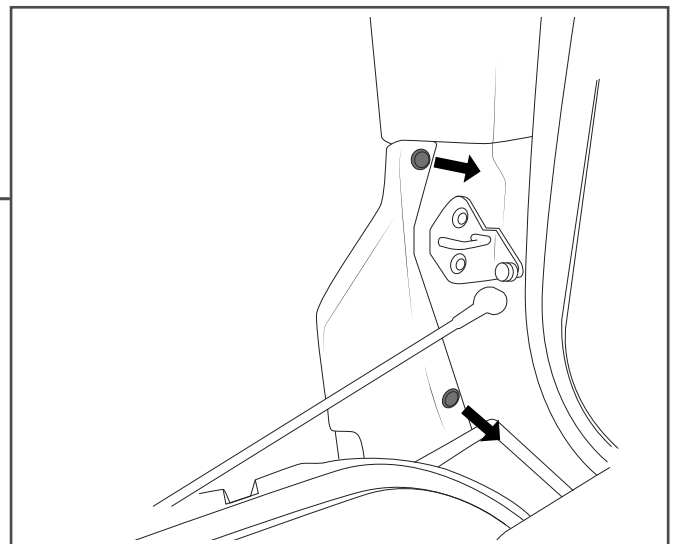
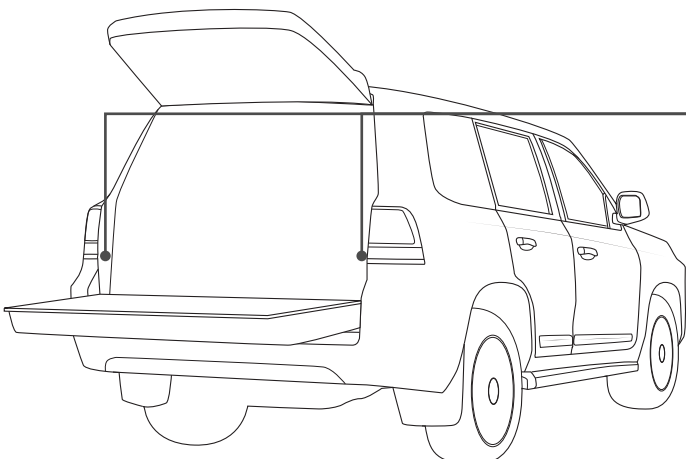
STEP 2 - Remove Fasteners

Undo and remove the fasteners fixing the bumper to the underside of the car on both sides. Unscrew the fasteners holding the trailer plug mounting bracket in position and remove.



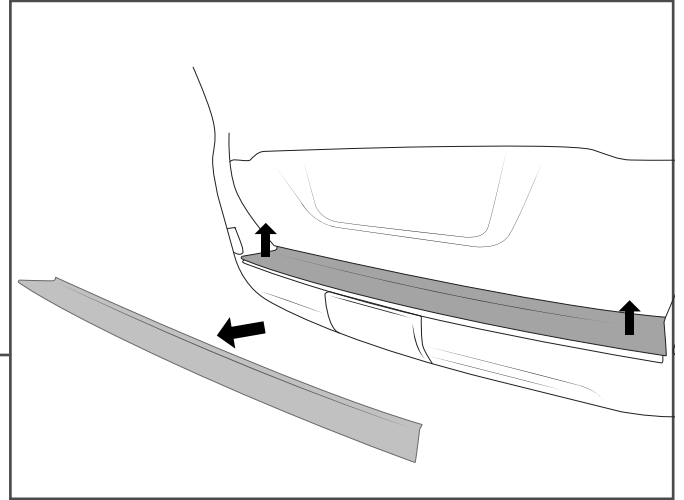
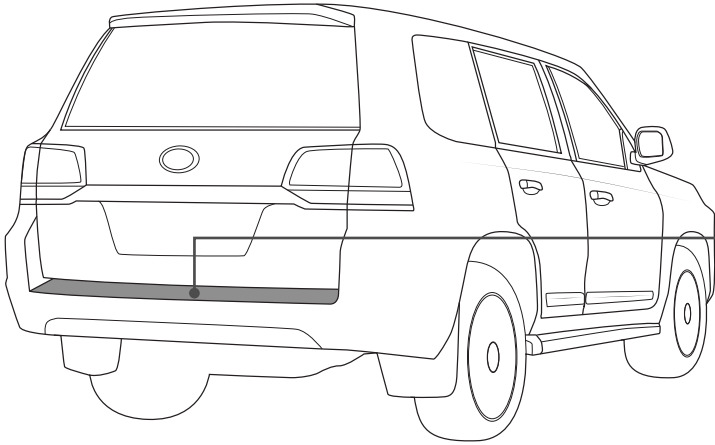
STEP 3 - Remove Fasteners

Remove the retainer clips in the rear door jamb, both sides.



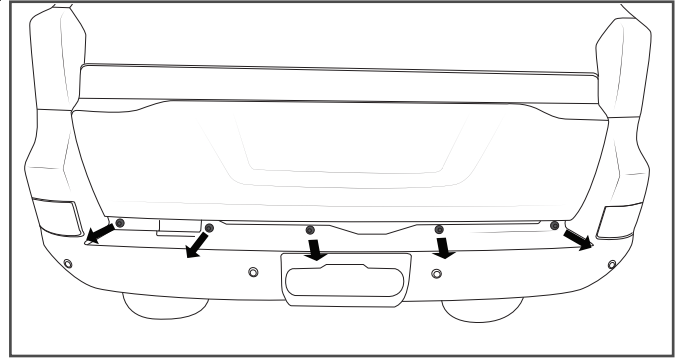
STEP 4 - Remove Tread

Gently lever off the plastic tread panel from the top of the step on the bumper using a trim tool.



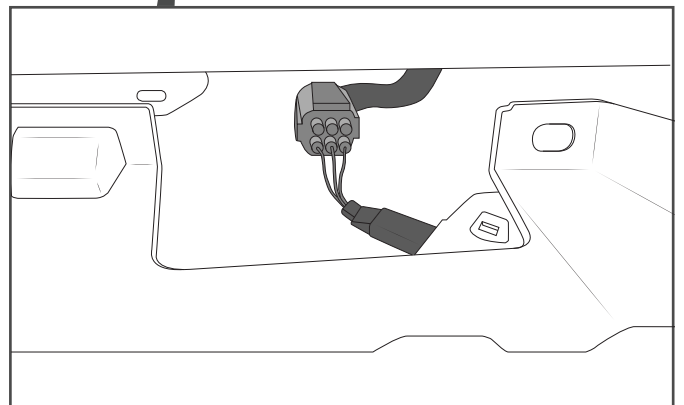
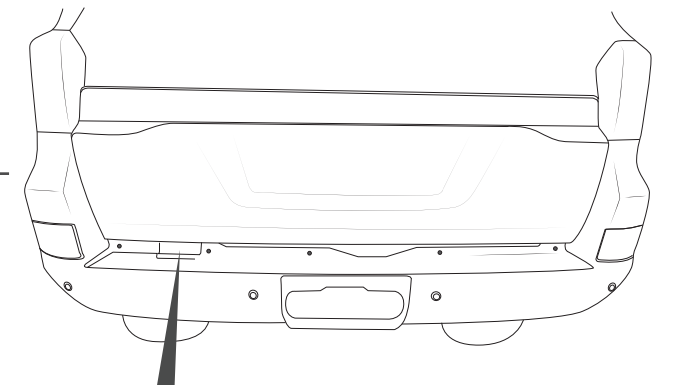
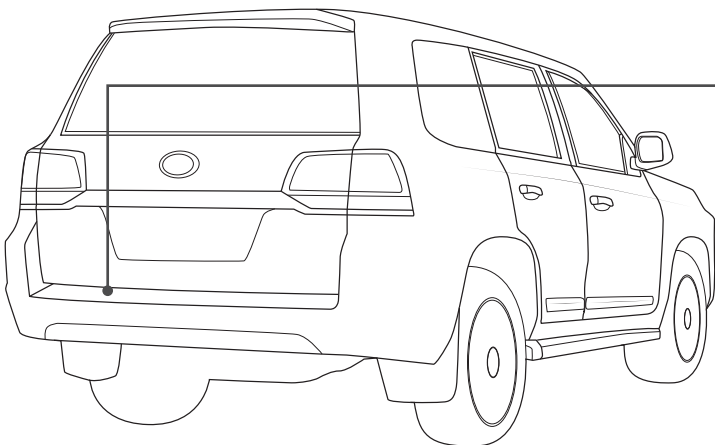
STEP 5 - Remove Fasteners

With the top cover panel removed, unscrew the exposed fasteners holding up the top of the bumper.



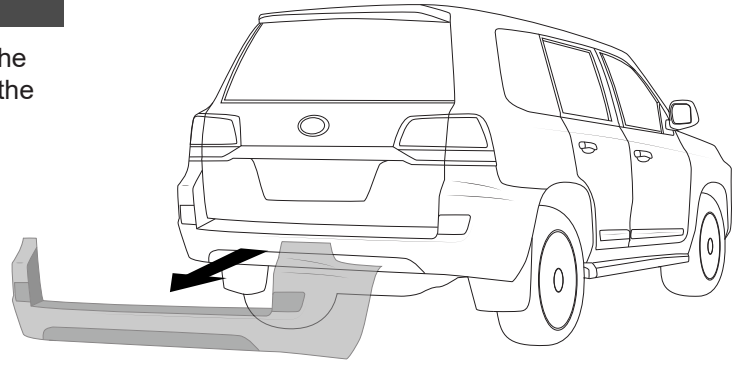
STEP 6 - Disconnect Sensors (Sensors Only)

If the car has parking sensors, disconnect the Sensor harness plug by releasing the clip on the underside of the plug.



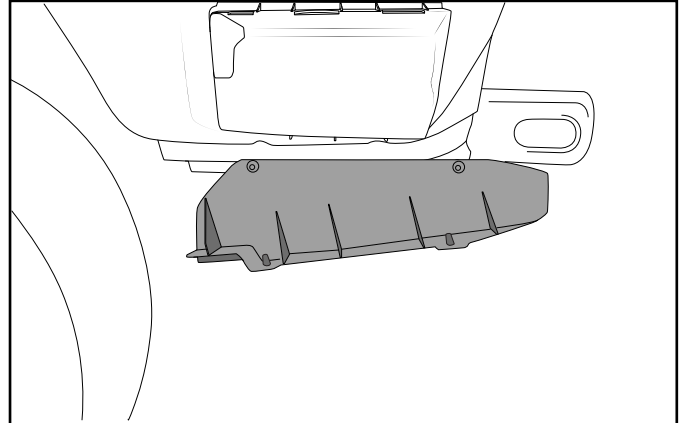
STEP 7 - Remove the Bumper

With all the fasteners fixing the bumper removed, starting at the wheel arch pry the bumper panel, gently pulling outwards on the panel to release it from the clips.



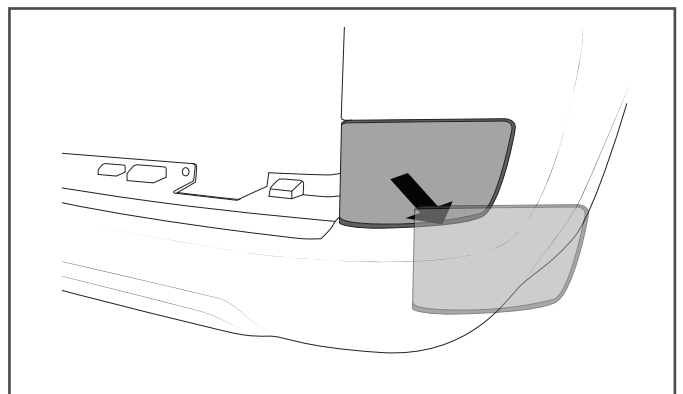
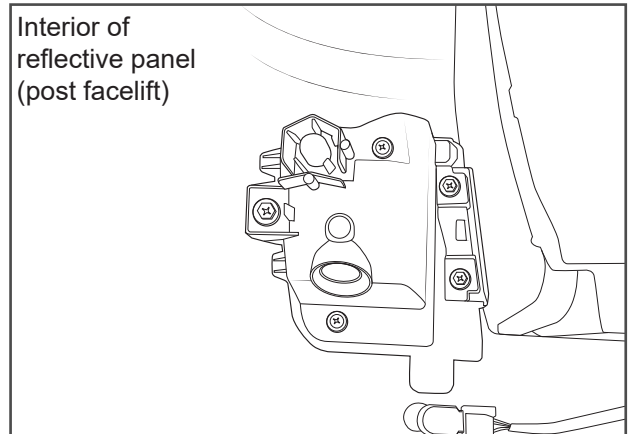
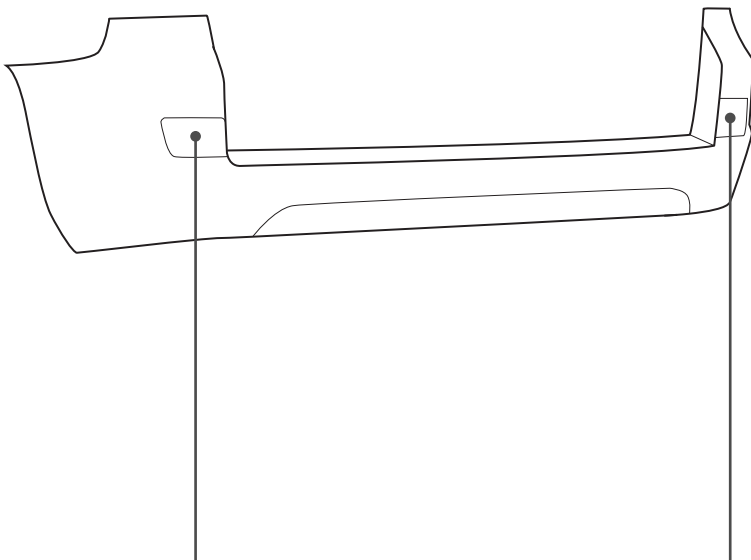
STEP 8 - Remove the Corner Splash Panel

Remove the rear corner splash panels that are situated behind the mudflaps by unscrewing the fasteners fixing it to the sill lip. Remove the plugs that the fasteners fix into.



STEP 9 - Remove the Reflector Panel

For each side that you are installing a carrier, remove the reflector panels from the bumper by unscrewing the fasteners on the back side of the reflector panel.

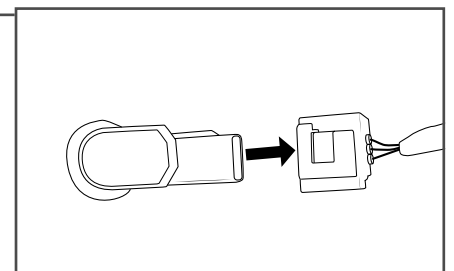
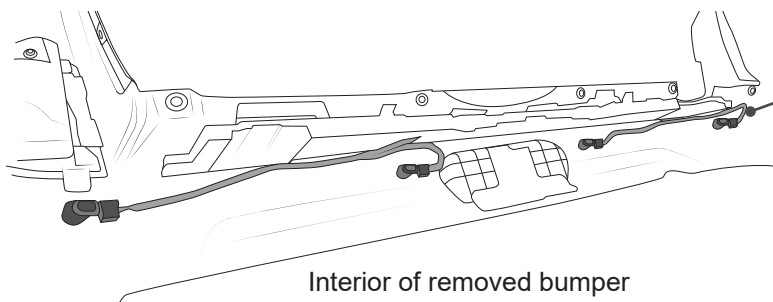
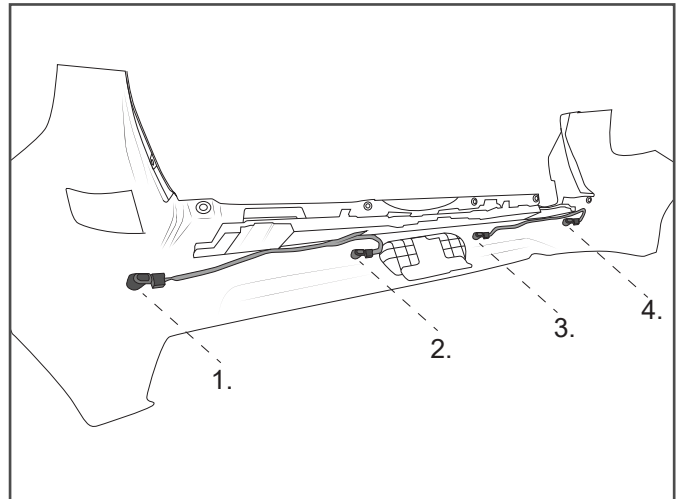


STEP 10 - Remove Sensor Harness (Sensors Only)

If the car has parking sensors, they will need to be removed and fitted to the Kaymar Bar. Before removing, note the location of each of the sensors as it is critical that they are located in the same position and orientation when being installed on the Kaymar bar.

Parking sensors will not function properly if you do not install them in the correct location and orientation.

Ensure there is no dirt or debris obstructing the clips on the sensors and harness plugs or on the clips holding the sensors in place on the bumper. Disconnect each of the sensors from the harness. Gently release each of the 4 clips holding the sensor in place on the bumper. With the clips free, push the sensor from the outside of the bumper through the hole.

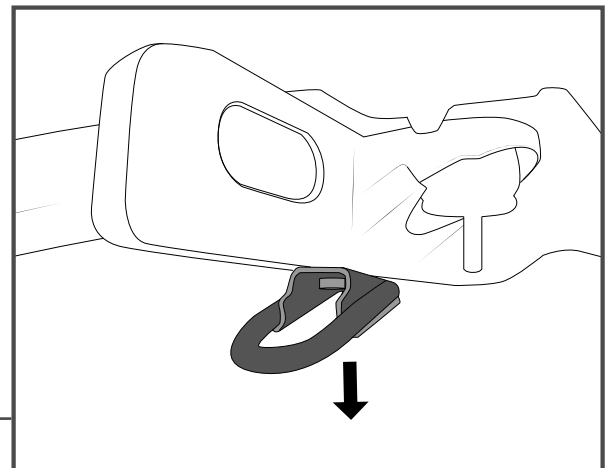
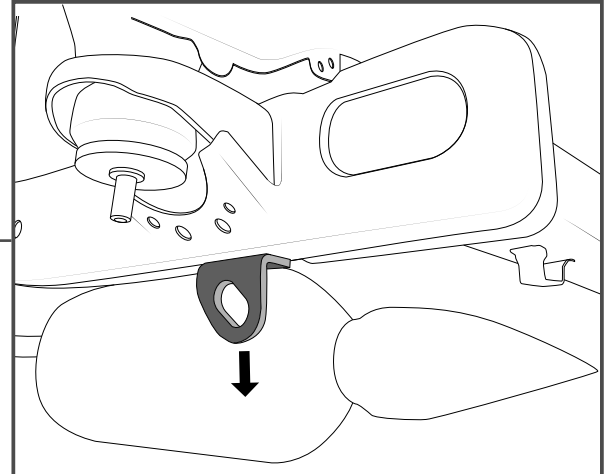
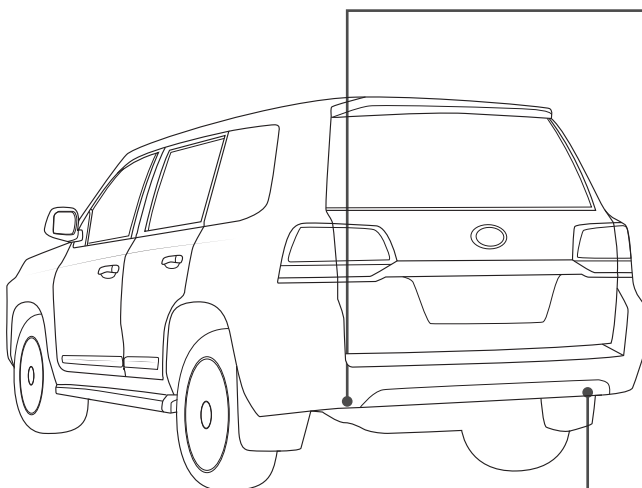


STEP 11 - Remove Lugs

For LHS carrier fitment unbolt the tie down lug.

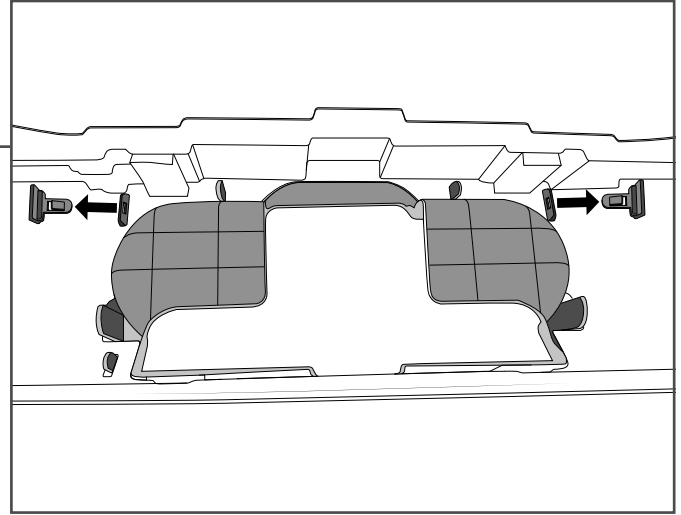
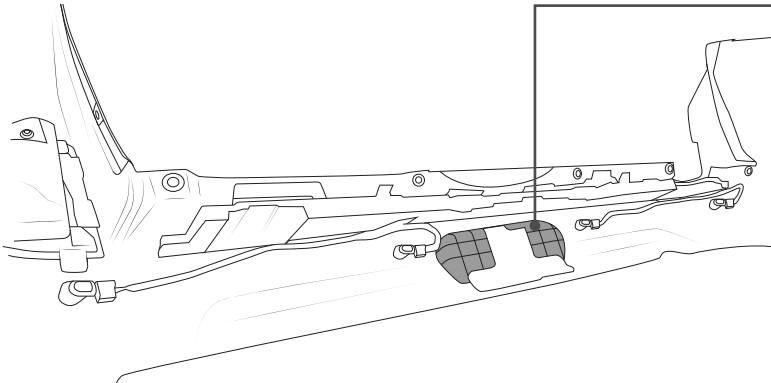
For RHS carrier fitment unbolt the towing lug.

For fitment of both LHS and RHS carriers, unbolt both tie down lug and towing lug.



STEP 12 - Remove Tow Hitch Shroud

Remove the Tow Hitch shroud by depressing the clips on the blue retainers and sliding outwards.

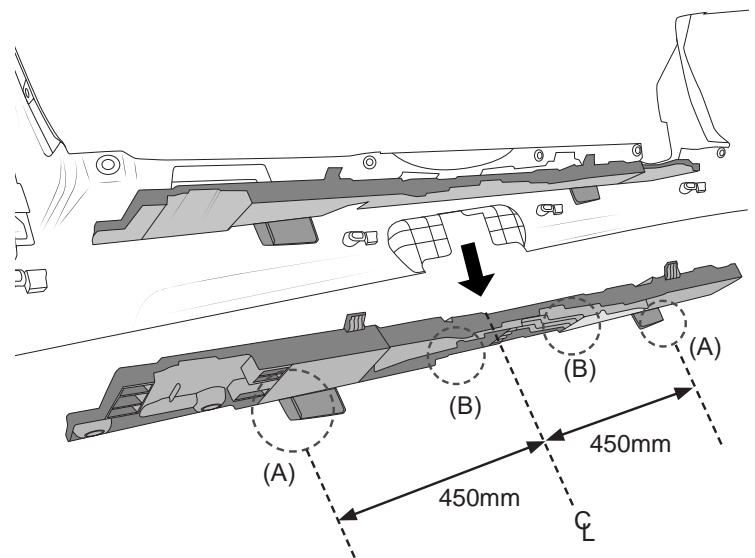


STEP 13 - Remove Plastic Reinforcement Panel

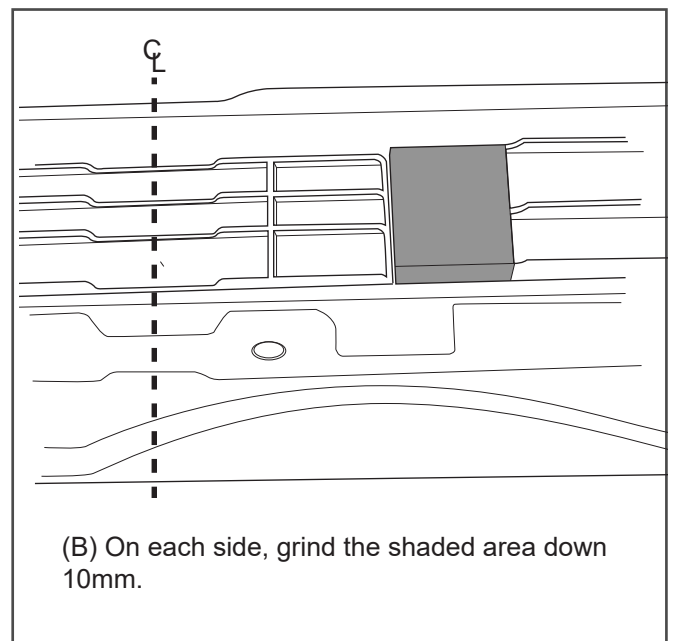
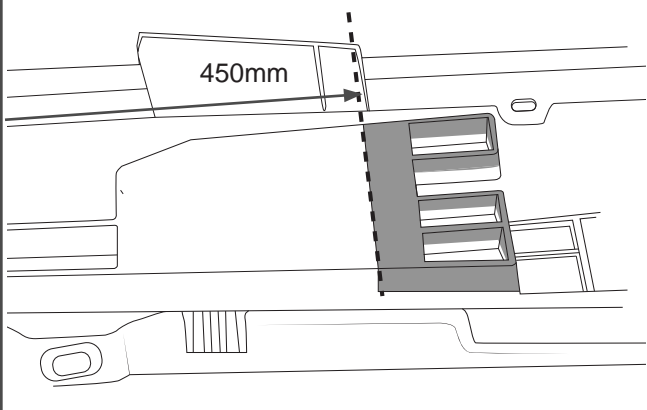
Remove the black plastic reinforcement panel that's fixed to the underside of the step on the bumper. This panel rests on the rear chassis crossmember when the bumper is fitted to the car.

For the bumper to sit in its correct position, the reinforcement panel requires approximately 10mm of material removed from regions (A) and (B) on the underside of the panel, where it would otherwise interfere with the Kaymar Components (Bar, Chassis Mount Bracket and fasteners). Grind these regions down on either side. You will need to check there is no interference in Step 29 - Fit Bar.

For vehicles with sensors, remove the sensor harness from the bumper and reinforcement panel. This is to avoid damaging the harness whilst making modifications to the panels. The harness will need to be refitted after the modifications have been made.



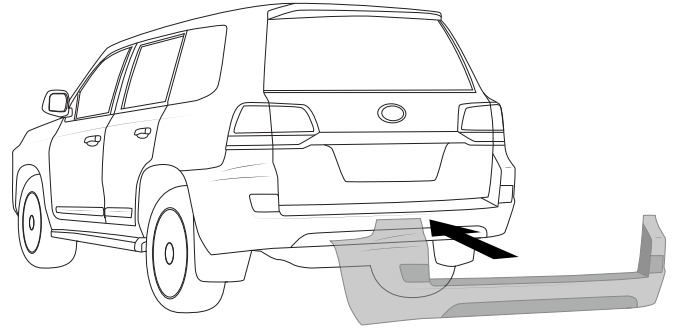
(A) On each side, measure 450mm from the centre of the reinforcement panel. Grind the shaded area down 10mm.



(B) On each side, grind the shaded area down 10mm.

STEP 14 - Put Bumper On

Put the bumper back into position on the vehicle ensuring that it re-engages the clips that seat it in its correct position. Do not install fasteners.



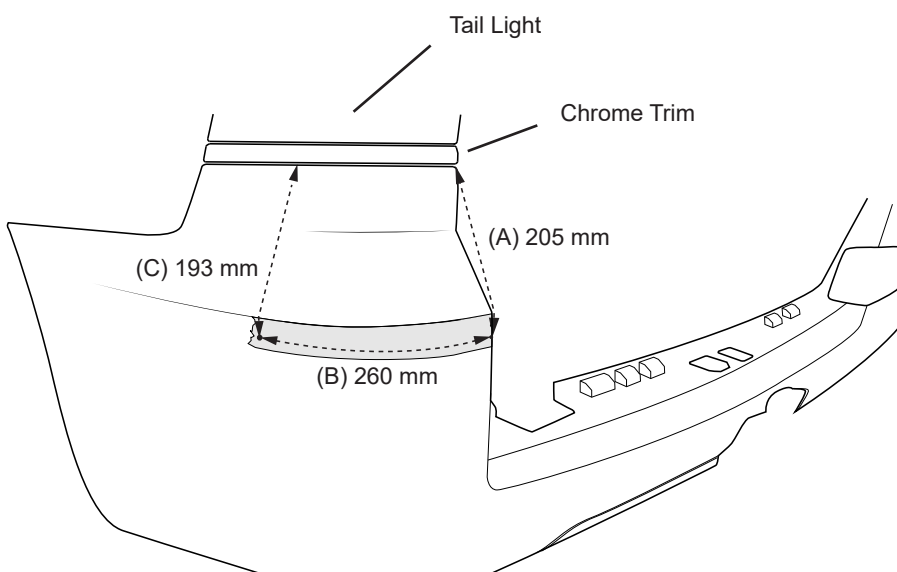
STEP 15 - Measure and Mark

To prevent damage to the bumper whilst marking out and cutting, apply masking tape to the bumper as shown in the next few steps.

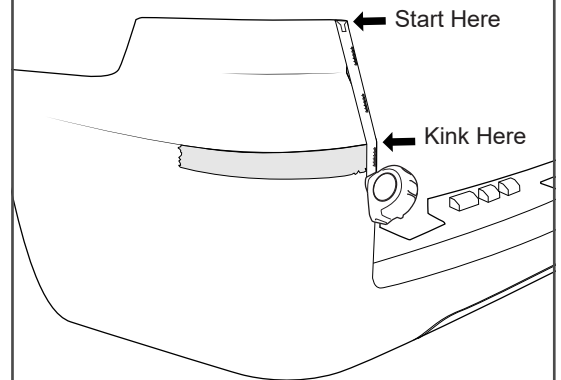
Measure down **205 mm** from the top edge of the bumper where it meets the tail light, near the tailgate opening as shown in (A), mark a point on the edge of the bumper.

Next measure from this point at the edge, measuring horizontally **260mm** around the corner of the bumper towards the front of the vehicle and mark a point. Last measure down **193mm** and find the intersection.

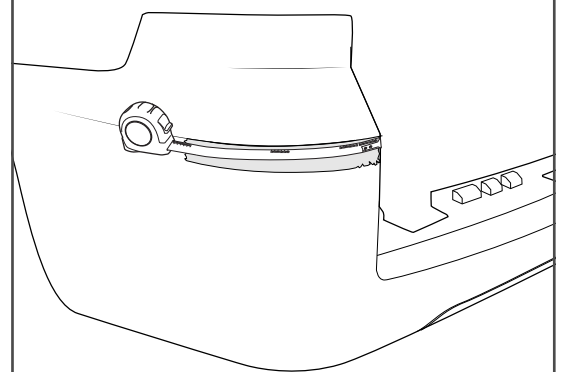
For the vertical measurements, hold the start of the tape measure in position on the top edge of the bumper where it butts against the tail light trim. Measure straight down, pulling down on the tape measure so that it is taut and then wrap the tape over the hump so that the tape kinks and is flat on the bumper panel where the measurement is taken. This is important to get an accurate measurement for the bumper cut.



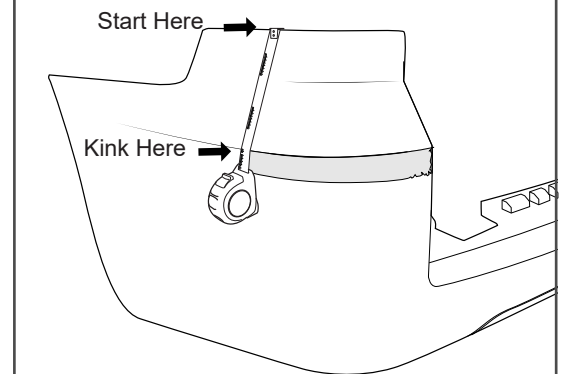
(A) Note tape measure is pulled taut between both points shown.



(B)

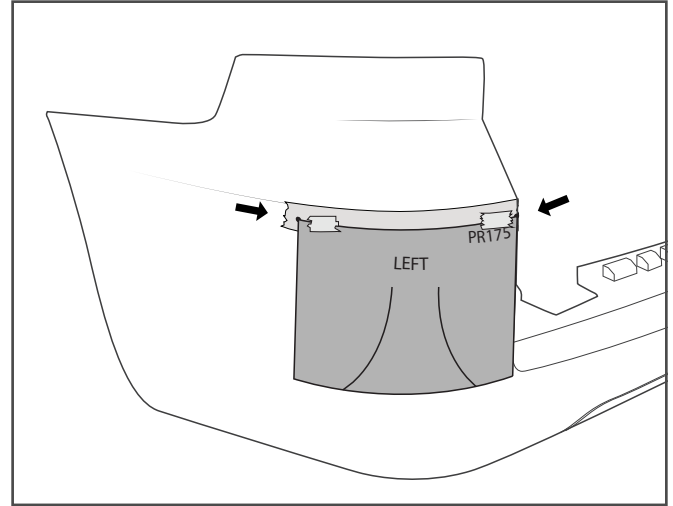


(C) Note tape measure is pulled taut between both points shown.



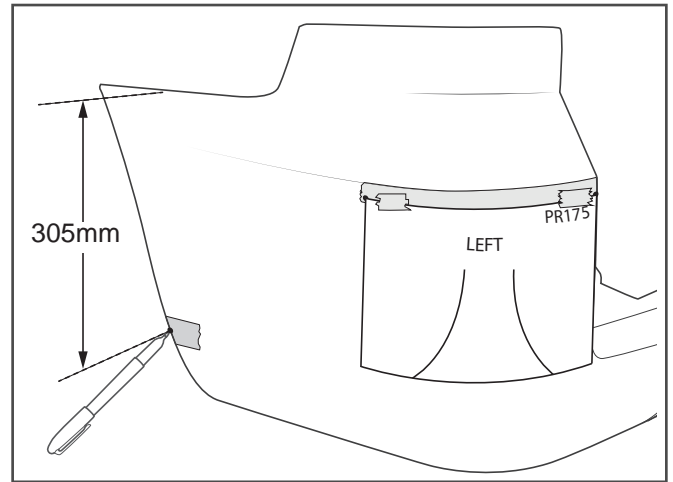
STEP 16 - Fix Template

Place the bumper cutting template so that the top corners meet up with the points measured and marked in the previous steps. Use tape to fix the template in place on the bumper ensuring the top corners of the template meet up with the points marked out.



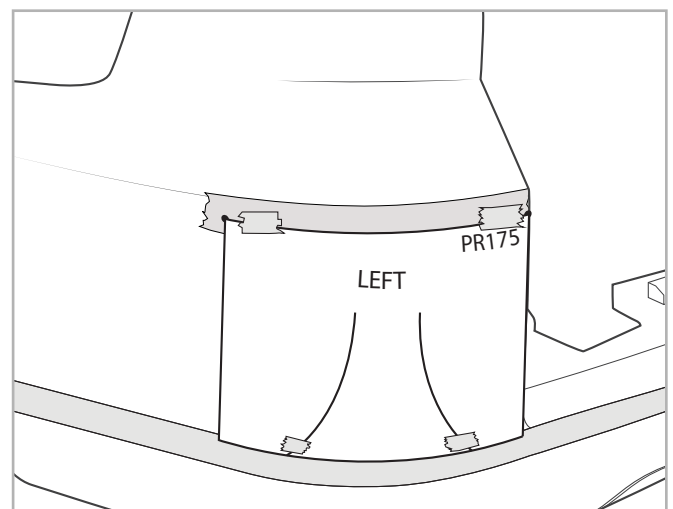
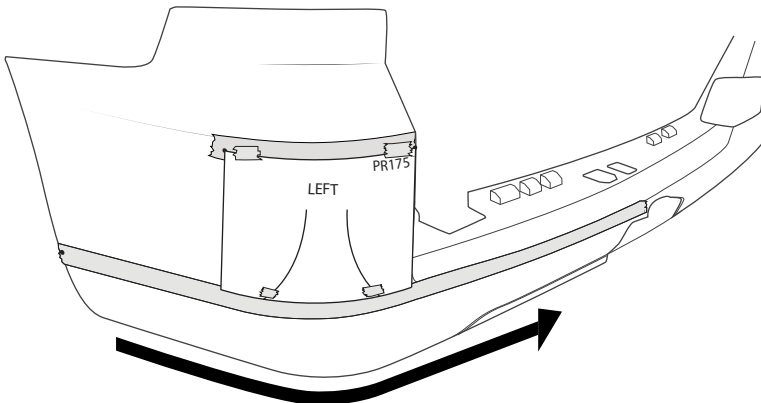
STEP 17 - Measure and Mark

At the wheel arches, measure straight down from the top of the bumper panel 305mm (apply masking tape) and mark a line where this measurement intersects the wheel arch.



STEP 18 - Protect Bumper

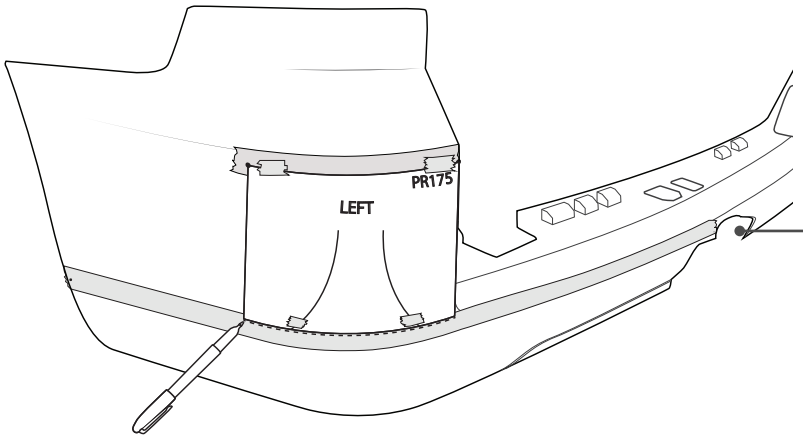
Apply masking tape around the rear corner of the bumper. Ensure that it runs straight between the mark made at the wheel arch, tucks under the template and across to the top of the opening of the tow hitch.



The template is split in three pieces along its bottom edge. Tuck the outer sections under the middle section and align the bottom edges so they make a smooth curve, then apply tape to fix it in position.

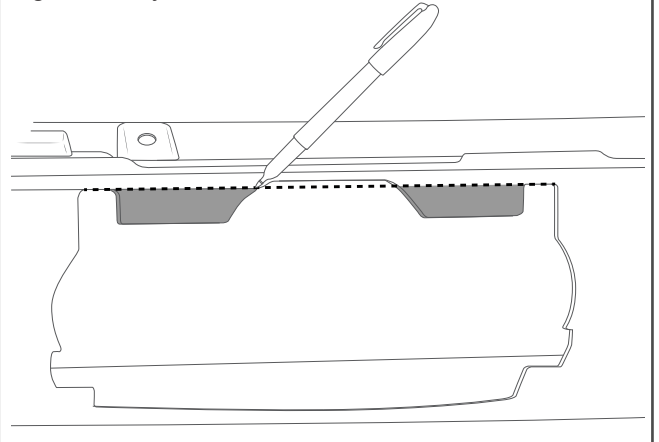
STEP 19 - Mark out Lines

Mark out the bottom edge of the template onto the masking tape.



Use a straight edge to rule a line across from the top edge of the outside notches in the center opening in the bumper. The tabs below (shaded) will be removed when you cut the bumper.

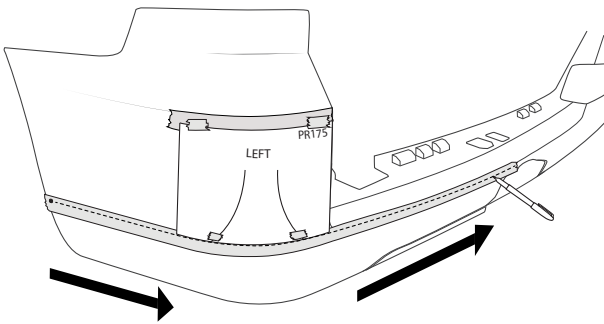
Note: The centre section above the tow hitch will be higher than your line.



STEP 20 - Mark out and Repeat

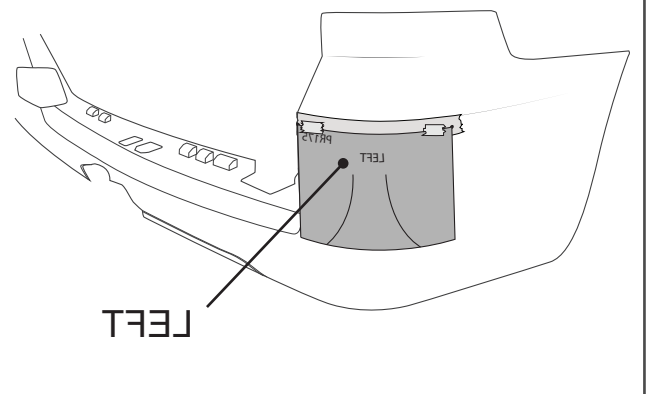
Use a straight edge or steel ruler to mark out a line that connects the point marked at the wheel arch previously, to the line marked out along the bottom edge of the template. Continue the line from the template across to the line marked between the notches in the tow hitch.

Note: the line should look uniform with the styling line that runs along the step of the bumper.



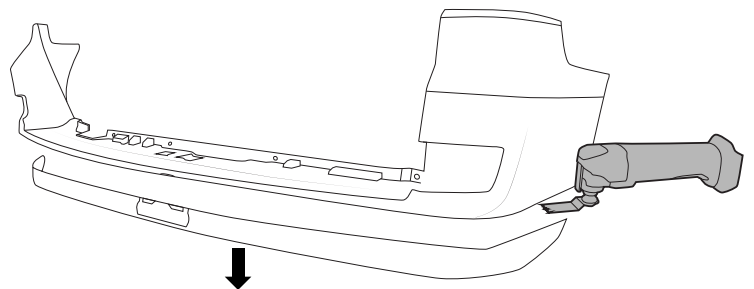
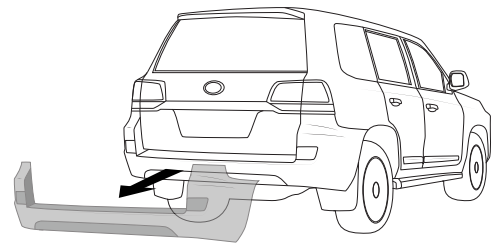
REPEAT STEPS FOR RHS

Repeat the process of measuring and marking out the bumper on the right hand side of the bumper with the template flipped over so that the word "left" on the template is backwards.



STEP 21 - Cut Bumper

Remove the bumper and cut along the lines marked out in the previous steps to remove the bottom section of the bumper and the tabs near the tow hitch. The cut can be made with an angle grinder with a cutting disc or using an oscillating multitool. After the cut is made, clean the burrs off the edge of the cut with a hand file.

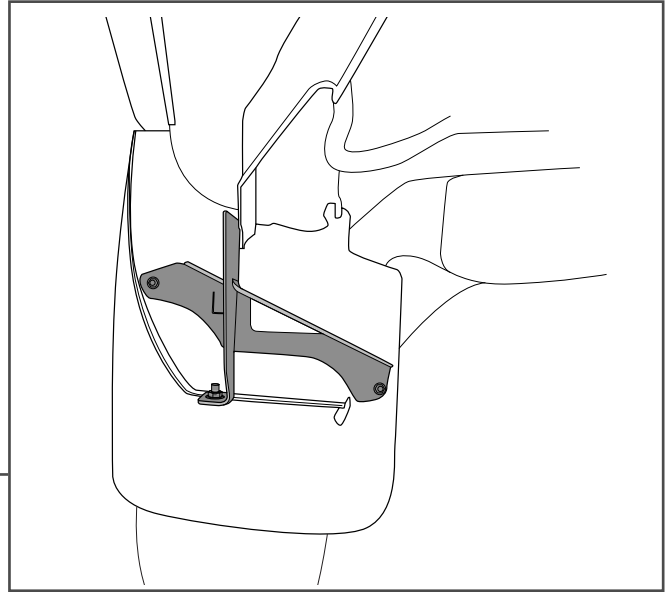
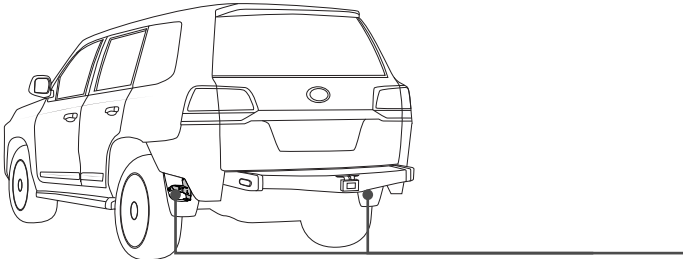


STEP 22 - Fit Mudflap Brackets

Refit the mudflaps to the vehicle. Fit the mudflap brackets (marked L and R respectively) to the rear of the mudflap using the supplied M6 fasteners.

Note: The mudflap brackets need to be fixed into place at the top edge by drilling holes in the sill lip and fastening, so that the mudflaps rest in their original factory installed position.

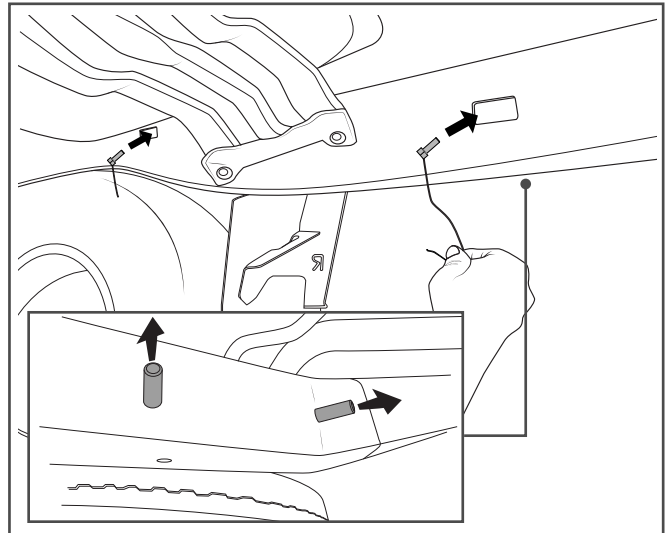
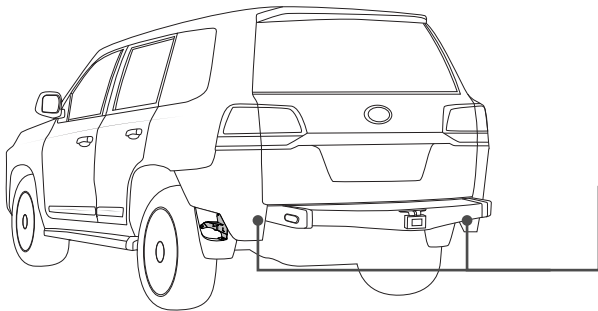
Before fixing the brackets into place we suggest you continue through the steps of these instructions and trial fit the Kaymar Bar to guarantee that the mudflaps end up butting neatly against the front edge of the Kaymar Bar.



STEP 23 - Fit Wing Braces

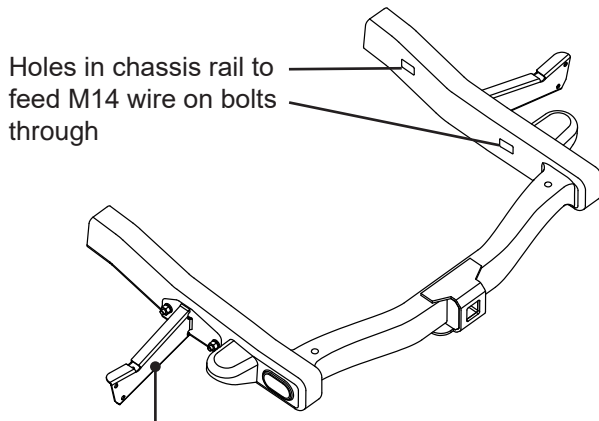
To fit the side wing support braces, unwind the wire on the M14x40 mm bolts. Locate the rectangular holes on the inside face of the chassis rail and the holes that the wing support braces mount to. Hold the end of the wire and feed the bolts through the rectangular holes, through the chassis rail then poke the bolts through the holes on the outer side of the chassis rail.

Note: This process is made easier with the spare tyre lowered using the supplied tools from Toyota.



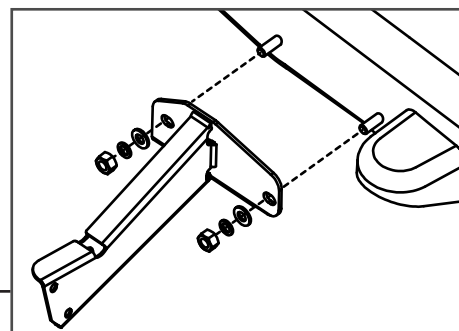
The wing support braces are marked L and R respectively. Mount the brace into position as shown in the pictures, ensuring that the brace is fit hard up to the bottom of the chassis, and fasten with the supplied nuts washers and spring washers.

Note: Tighten bolts, but not to full torque, these bolts may need to be loosened later, when fitting the wing support braces to the Kaymar bar.



Holes in chassis rail to feed M14 wire on bolts through

Rear of LC200 Chassis



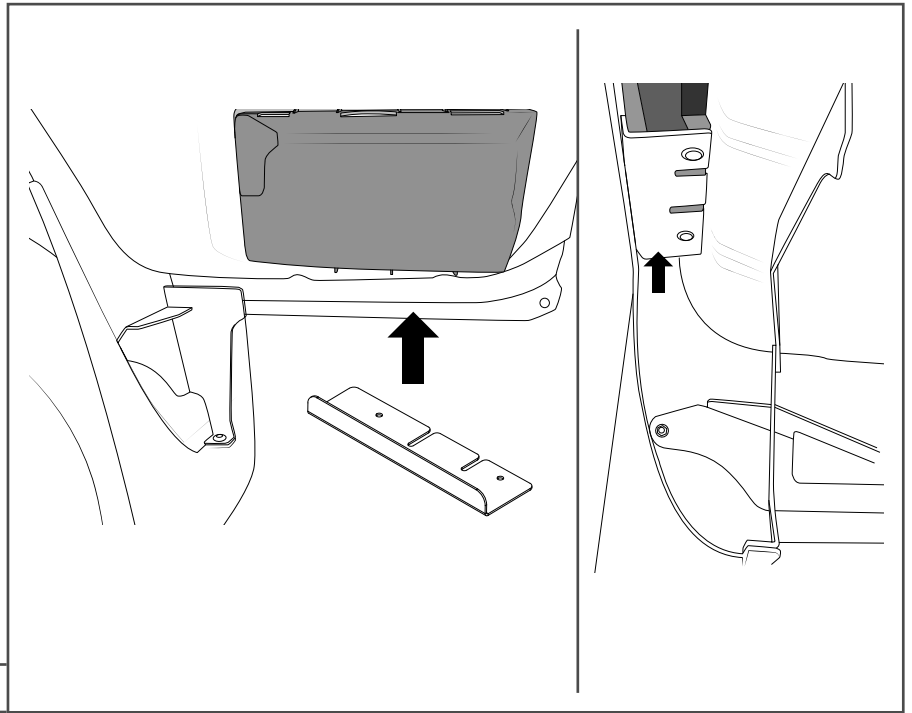
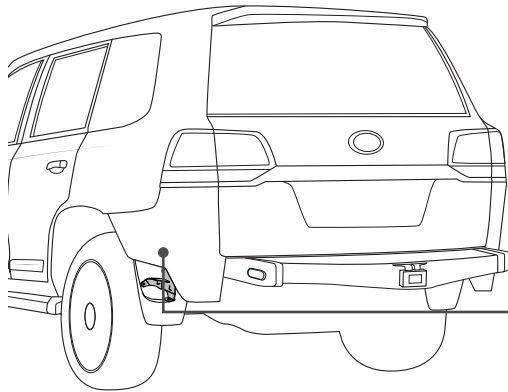
STEP 24 - Fit Bumper Support Brackets

Position the slotted Bumper Support angle bracket against the bottom of the body vent.

Fit the slots of the Bumper support bracket over the ribs of the vent and mark the location of the two holes.

Drill 5mm holes and fix the Bumper Support Bracket to the vent with the pop rivets supplied. LHS is shown in the picture.

Repeat this process on the right side.



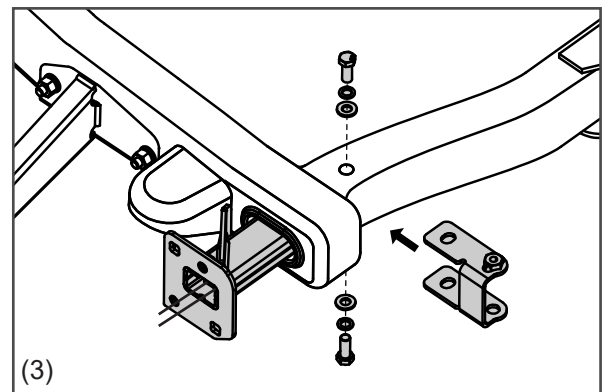
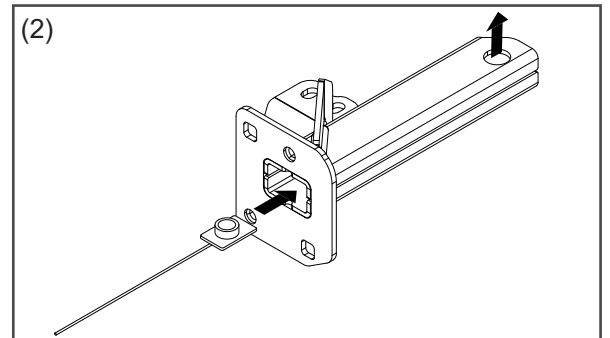
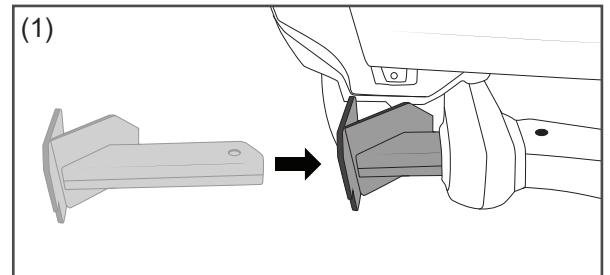
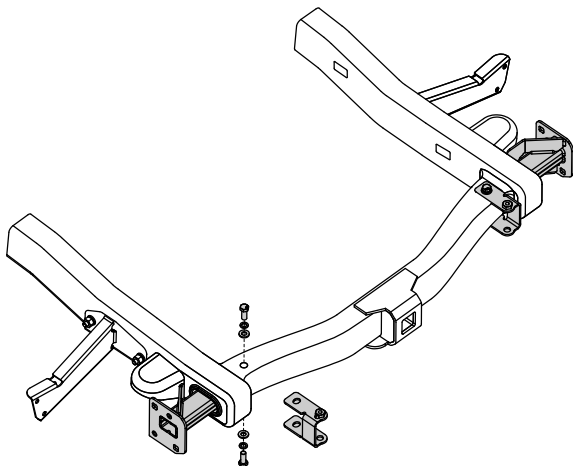
STEP 25 - Fit Chassis Mount Brackets

1) Slide the Carrier Mounting Bracket into oval shaped hole at the end of chassis cross member.

2) Feed the top captive nut on wire through the middle of the bracket. Once its reached the hole in the chassis it will seat into position.

3) Slide the Chassis Mount Bracket over the chassis cross-member so that the holes in the bracket line up with the holes in the chassis cross-member. Insert one of the M14x35 bolts, with washer and spring washer, through the hole in the chassis so that it engages the captive nut and **fit, finger tight**.

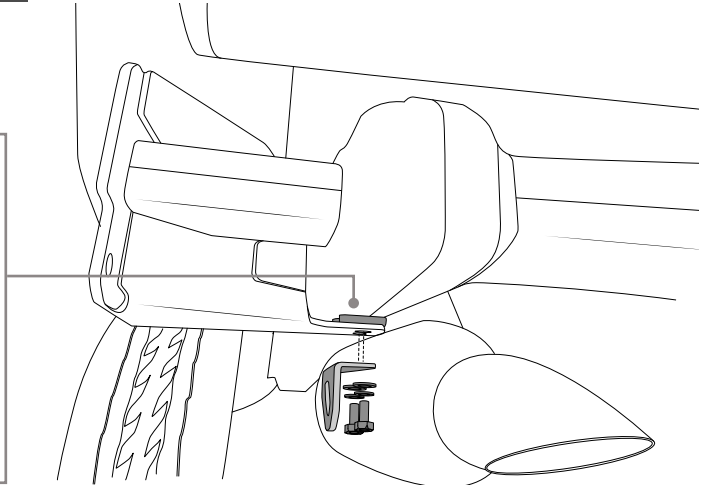
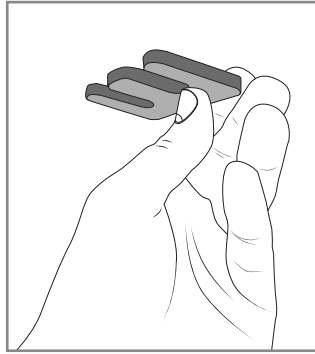
Repeat the same process for the captive nut facing down.



STEP 26 - Refit Lugs with packer

For each corner bracket, install the 8mm double slot packer in between the arm that extends off the corner bracket and the underside of the chassis rail. Refit the tow lug/tie down point on each side with the supplied M12x50mm bolt with washer and springs washers.

Fit the bolts finger tight.



STEP 27 - Torque Corner Bracket

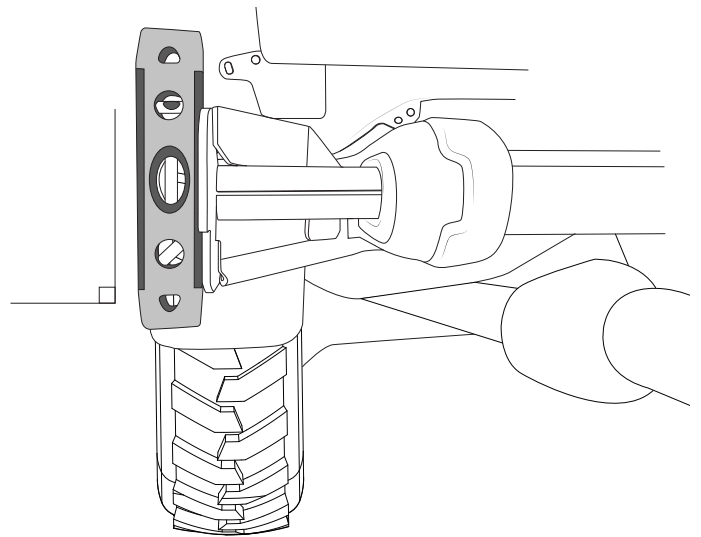
The Corner Brackets must be installed so they are vertically in-line with the vehicle chassis. **The vehicle must be level when you tighten the corner bracket fasteners.**

Use a level mounted on the end of the carrier mounting bracket to ensure that as the bolts are tightened the carrier mount bracket remains plumb.

Torque the bolts you fitted in the last two steps, connecting the corner bracket to the chassis.

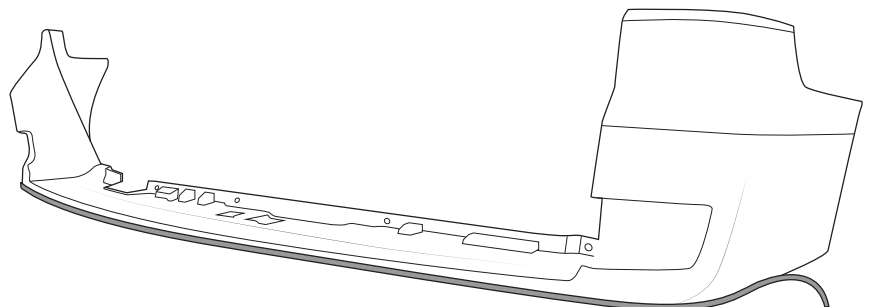
M12x50 - 89 Nm

M14x35 - 140 Nm



STEP 28 - Fit Pinchweld to Bumper

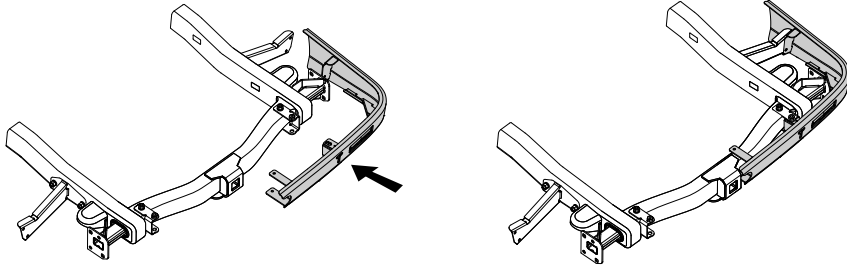
Working from one side of the bumper to the other, fit the pinchweld onto the cut edge of the bumper. Ensure that its firmly seated into position and is straight and uniform. Trim off the excess pinchweld with cutting pliers.



STEP 29 - Fit Bar

Lift one side of the Kaymar Rear Bar into position and slide it forward onto the chassis rear cross member. Ensure the bar locates correctly as illustrated. With the bar located in position on the chassis, loosely fit the M12x110 bolt shown in (A) so that the Bar is held in place and won't fall. You do not need to install the Crush Tube (A1) yet.

Note: This process may be easier with the spare tyre lowered using the supplied tools from Toyota.



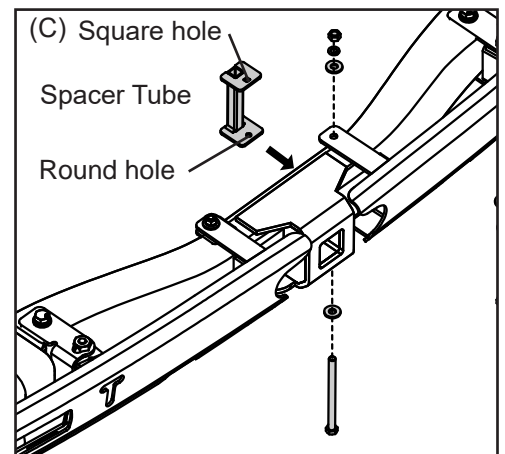
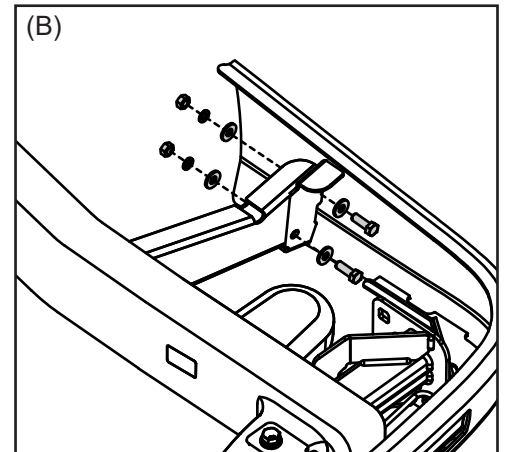
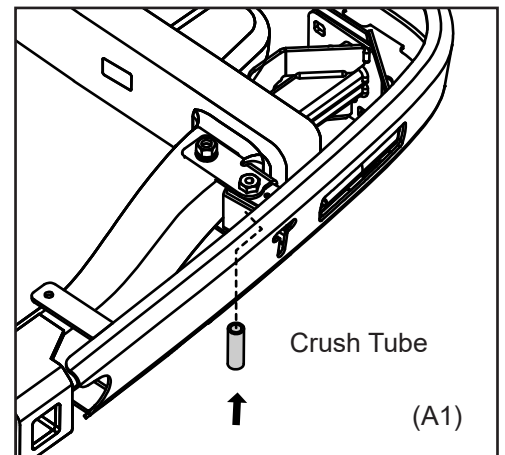
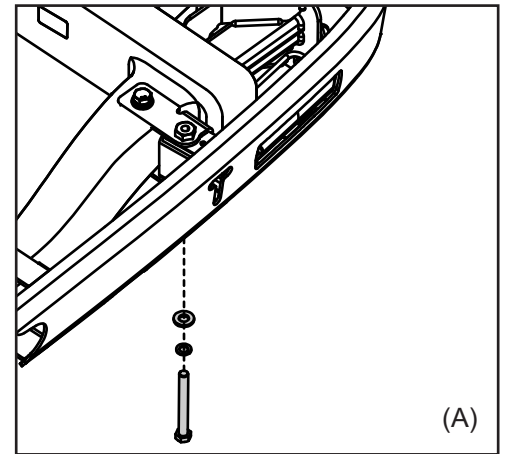
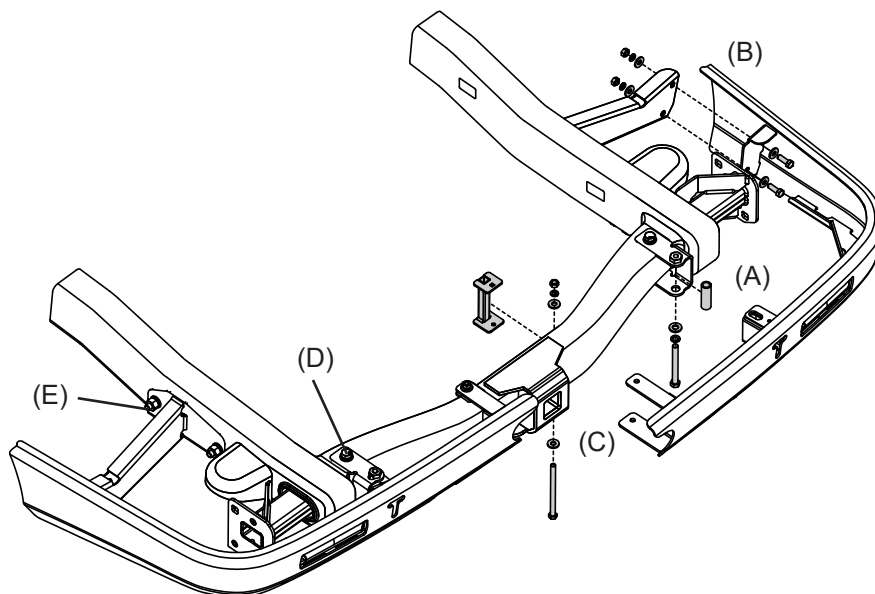
Loosely fit the top M10x30 mm bolts with washers, spring washer and nuts, into the side wing bracket (B).

Note: You may need to loosen the fasteners connecting the wing brace to the chassis rail (M14x40 mm bolt on wire). This may be needed to allow the wing brace to bolt to the bar.

Place the Kaymar Square Spacer Tube into position so that it's tucked behind the chassis crossmember and it's sandwiched between the tabs that extend over the chassis crossmember (C). Ensure that the space tube is correctly orientated as shown in the image (square hole on top). Align the tube with the holes so that the M10x150 mm bolt can be fed through. Loosely fasten with the washers, spring washers and nut.

Move the bar into position and loosely fit the lower M10x30 bolts and fasteners that fix the wing braces to the wings (B).

Refit the bumper into position. Check that there is no interference between the Kaymar components/fasteners, and the black reinforcement panel, if the bumper step doesn't seat correctly on the chassis cross member, grind more material out of the underside of the reinforcement panels where required.



STEP 30 - Fit Bar

With the mudflaps fastened to the vehicle and brackets, position the top edge of the mudflap brackets so the mudflaps are as close to the factory position as possible and clamp the top edge against the sill lip with vice grips (or small clamp), so they don't move.

Push the bars forward towards the mud flaps and up so it sits inline with the bumper cut. Check the fit up against the bottom edge of the bumper is uniform. Now tighten the bolts so the Bar maintains a uniform accurate fitment against the bumper and mudflap.

If the mudflap is not sitting in an optimal position, release the vice grips holding it in position, adjust its position and then re-clamp.

Once the optimal fitment positions of the mudflap bracket and bar have been achieved mark the position of the holes on the top edge of the mudflap brackets.

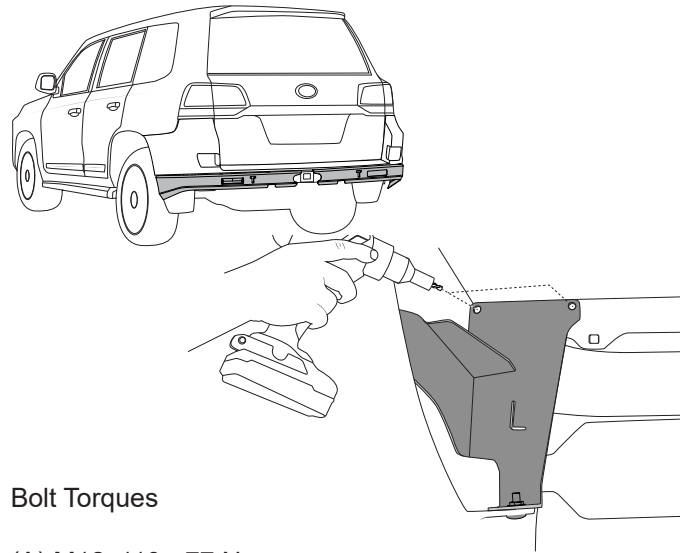
Drill 2 x 7mm diameter holes through the body sill lip and fix the mudflap bracket to the sill using the 6mm screws and flange nuts supplied.

If you need access to drill the holes remove the bar, and re-fit back into position, once the mudflap bracket is fixed in place.

Install the Crush Tube (A1) in position so that it sleeves the M12x110 bolt when assembled.

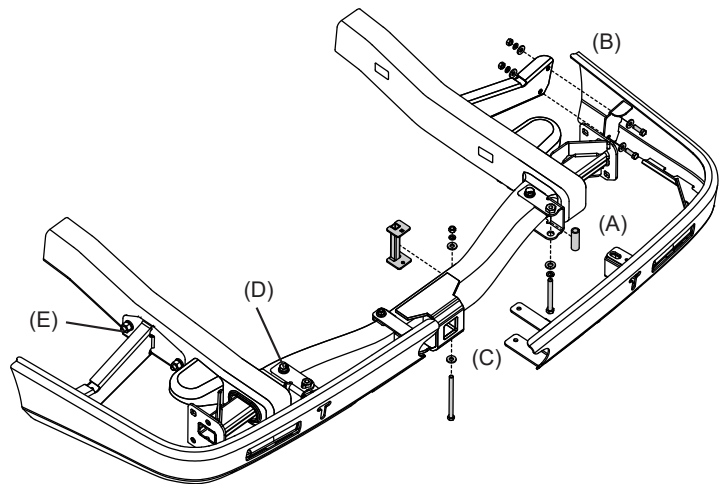
Torque the bolts as specified.

Note: If you have parking sensors re-fit the harness to the reinforcement panel and bumper under the step as they were before and fit the sensors into position on the Kaymar Bar. Check parking sensors are functioning as normal.



Bolt Torques

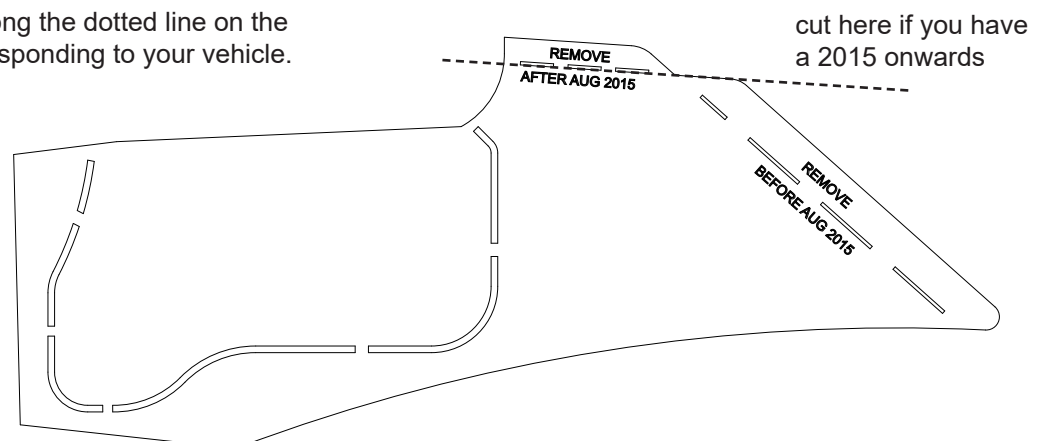
- (A) M12x110 - 77 Nm
- (B) M10x30 - 62 Nm
- (C) M10x150 - 44 Nm
- (D) M14x35 - 140 Nm
- (E) M14x40 - 140 Nm



STEP 31 - Cut Template

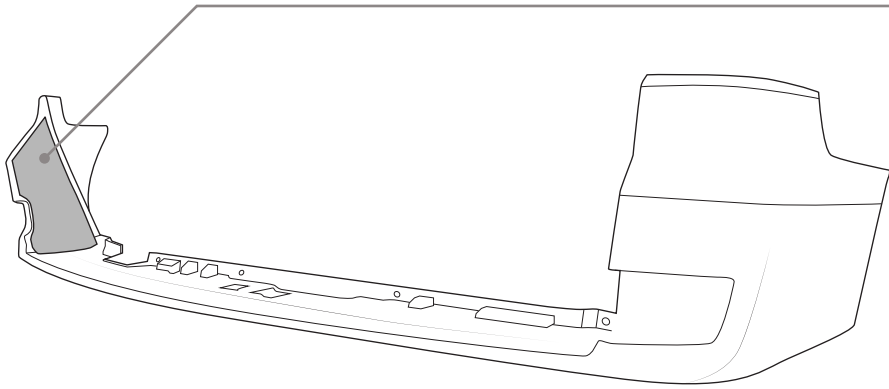
The cardboard template provided in the kit is used for both the pre-facelift (up to aug 2015) and post facelift (2015 onwards).

Before using the template cut along the dotted line on the template to remove the tab corresponding to your vehicle.

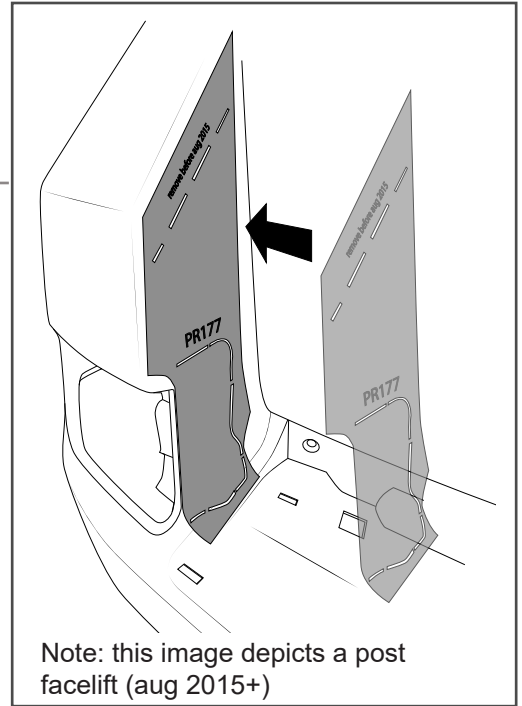
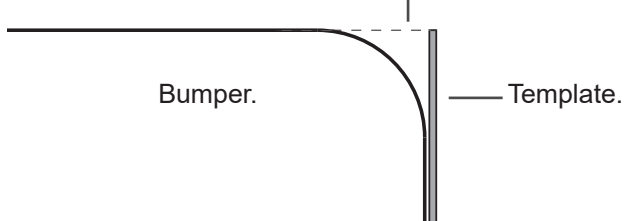


STEP 32 - Fix Template

Line up the template so that the edges are in-line with edge of the panel as shown in the picture. Use tape to fix the template in position.

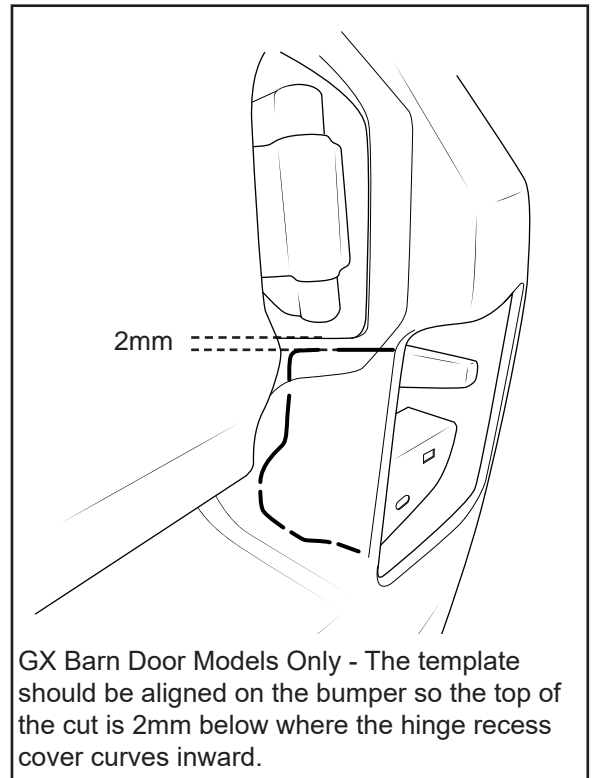
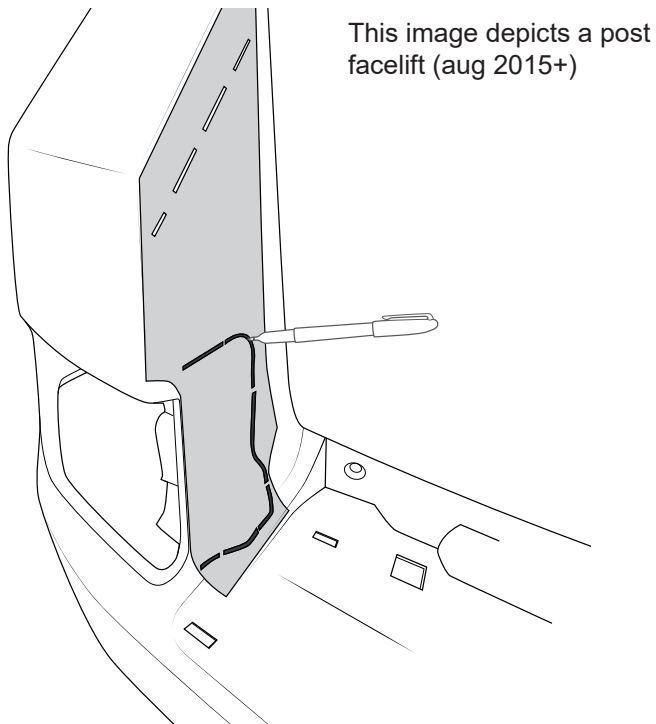


Edge of template inline with face of the body panel.



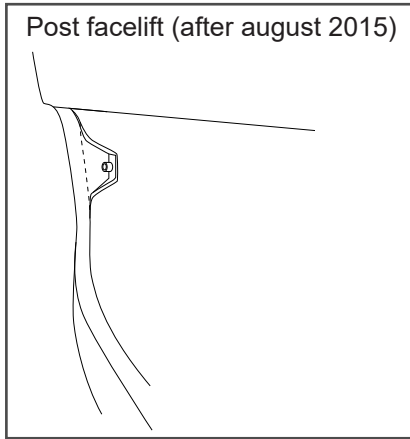
STEP 33 - Trace Template

Use a marker to trace out the cutting lines in the template.



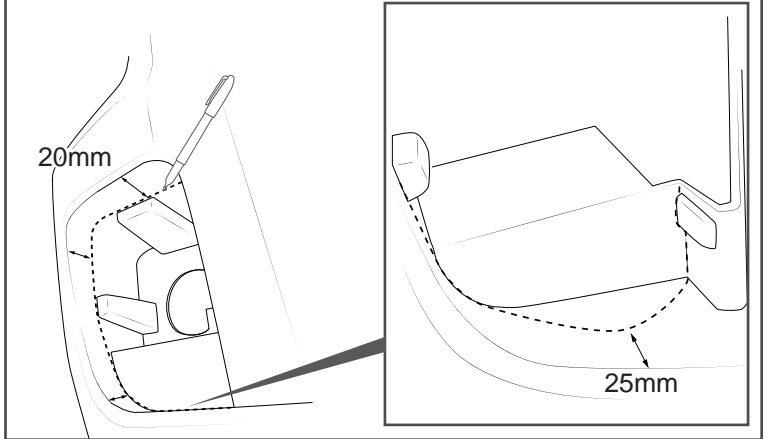
STEP 34 - Mark Out Support Structure

Mark out where you will remove the reflector panel support structure.



Pre facelift (up to Aug 2015):

Note: These dimensions are the tightest dimensions, you may want to cut more out to make installing the carrier easier.

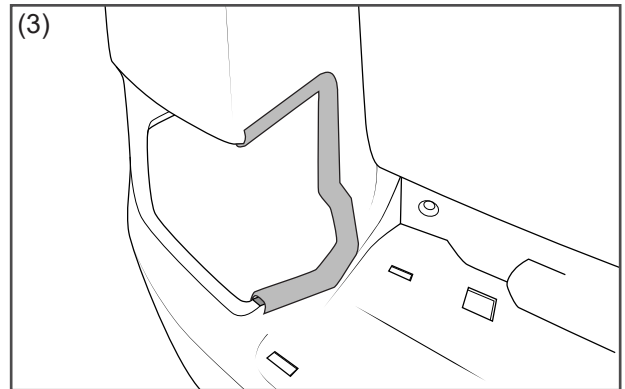
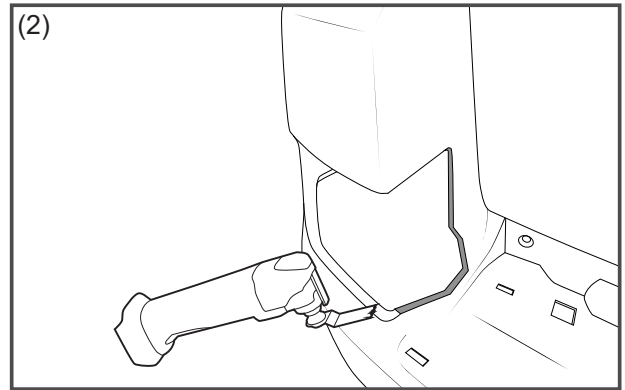
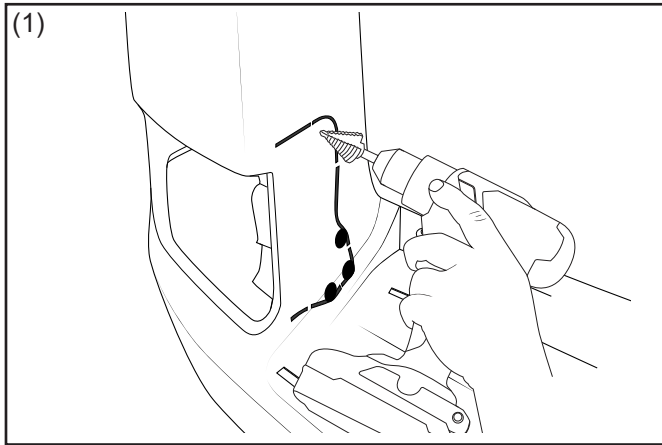


STEP 35 - Cut Carrier Hole

1) Drill out holes in the corners of the template to make cutting the radius in the corners easier.

2) Using grinding tools (angle grinder, multi-tool, die grinder, dremel etc.) cut/grind the panel within the region you marked out.

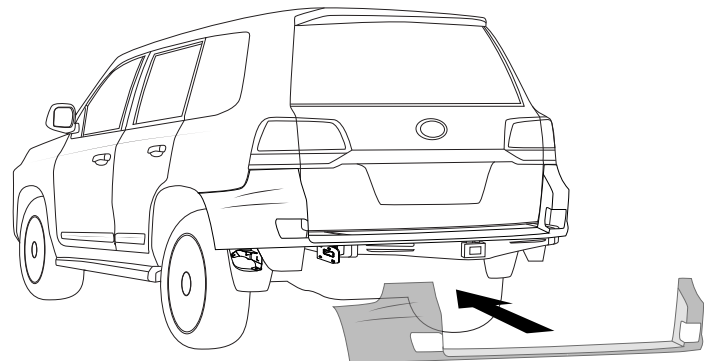
3) Fit the supplied pinchweld to the cut edge around where you marked out using the template, trim to size with cutting pliers.



STEP 36 - Put Bumper On

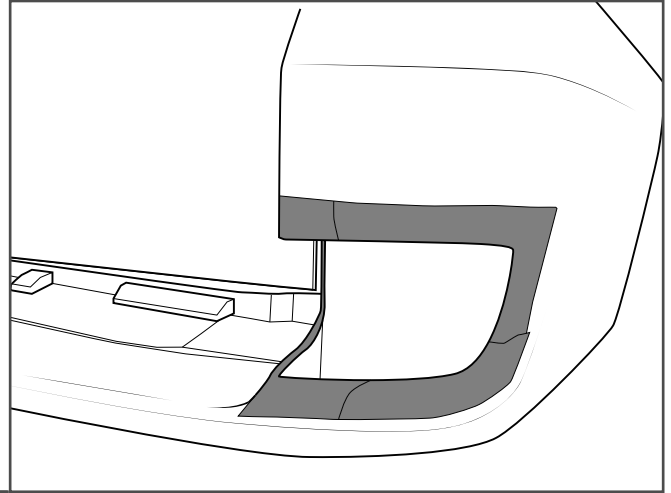
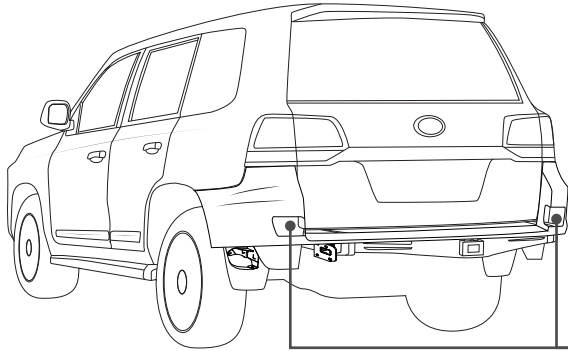
Put the bumper back into position on the vehicle, do not fix completely at this stage.

NOTE: Before proceeding ensure you are happy with the fitment. The next following steps involve installing the carriers through the holes cut out in the in the reflector panel locations. This is a process that is prefebly done once so you want to be sure you are ready to proceed.



STEP 37 - Prep Bumper for Carrier

Apply multiple layers of masking tape around the edge of the reflector cavity to prevent causing damage to the paint when the carrier is installed.



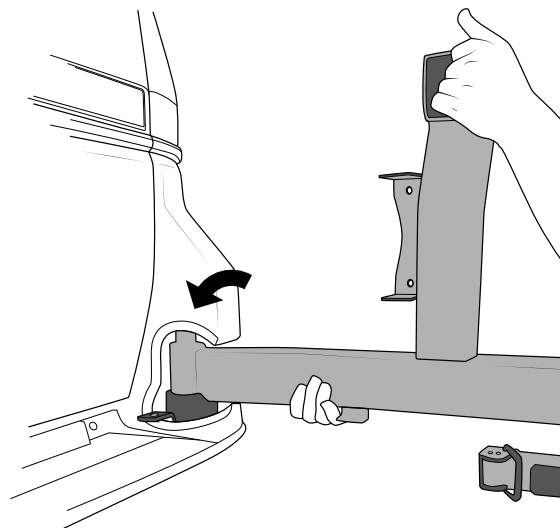
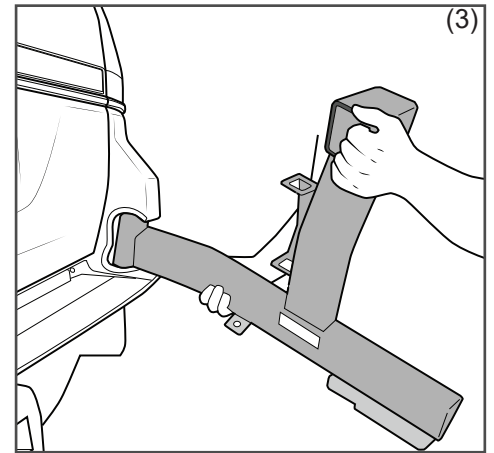
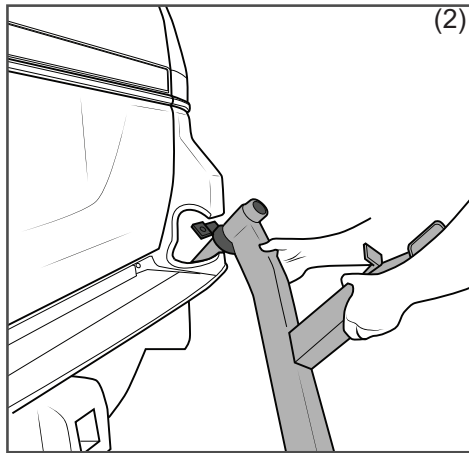
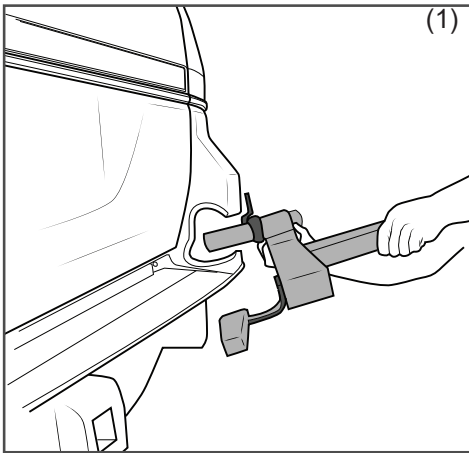
STEP 38 - Install Carrier

Gently feed the end of the carrier through the reflector cavity hole, as shown in the illustrations.

It is important that the bumper has not been fixed in place with fasteners, as it needs to be able to flex as the carrier is worked into position.

Align the mounting plate on the Carrier with the mounting bracket on the Corner Bracket and fit the 4 x M12x30mm fine thread bolts, washers and spring washers.

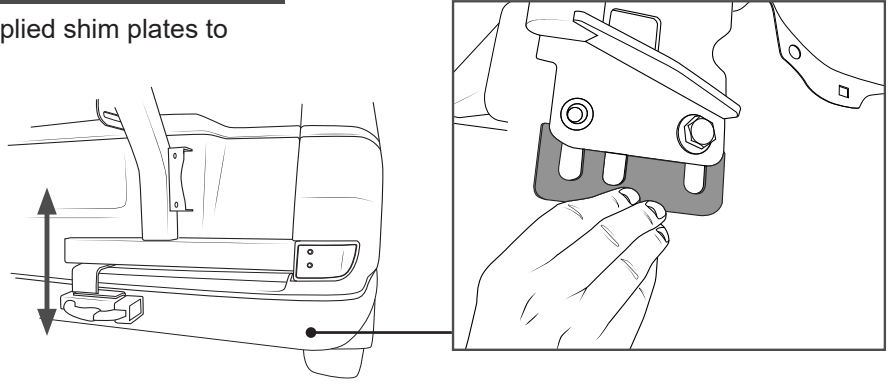
Tighten the four bolts firmly. Make sure the carrier is vertical or leaning slightly in towards the tailgate (when viewed from the side) and parallel with the bottom of the tailgate when viewed from the back.



STEP 39 - Adjust Carrier

If the carrier is not sitting level use the supplied shim plates to adjust the angle of the carrier.

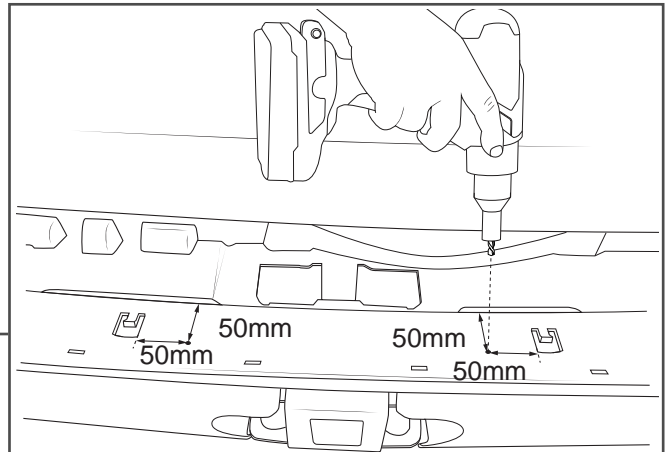
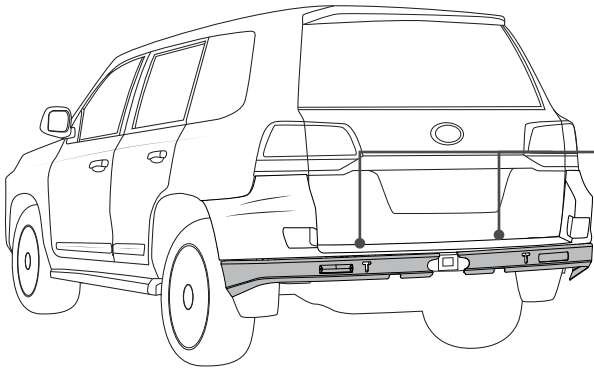
Note: The Shim plates have 3 slots so they can be used in the bottom of the corner bracket (to lower the carrier arm), or in the top (to raise the carrier arm).



STEP 40 - Drill Step

Looking down on the top of the plastic step of the bumper measure as follows and mark 2 points one on either side of the tow bar hitch.

Drill a 7mm diameter hole down through the plastic and through the top of the Kaymar bar.

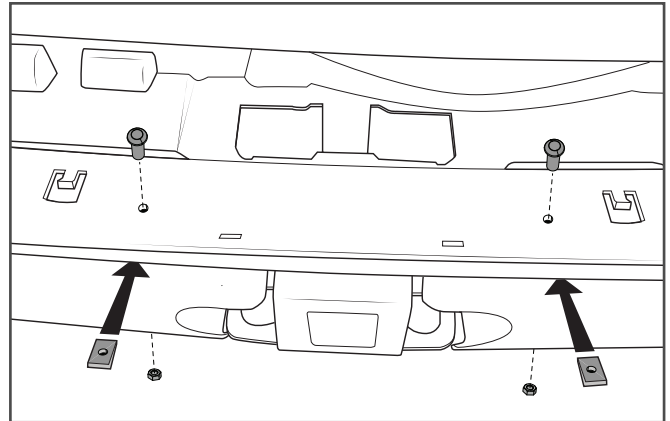


Drill a 7mm diameter hole down through the plastic and through the top of the Kaymar bar.

STEP 41 - Fix Step

Align the holes in the foam blocks with the holes drilled into the step and stick the foam blocks in position between the bumper step and the Kaymar Bar.

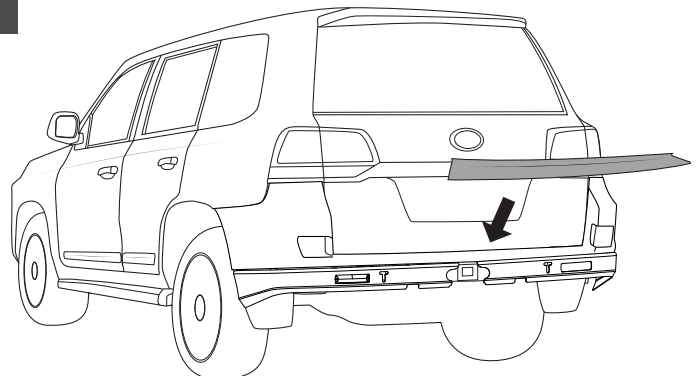
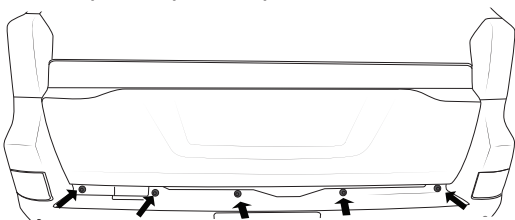
Fit the supplied M6 screw through the plastic, foam block and bar. Fit the nyloc nut and tension the screw very slightly, so as not to crush the plastic, but enough so that the plastic won't lift up.



STEP 42 - Refit Step Tread Panel

Re-install the bumper step fasteners with rubber washers.

Refit the bumper step tread panel.

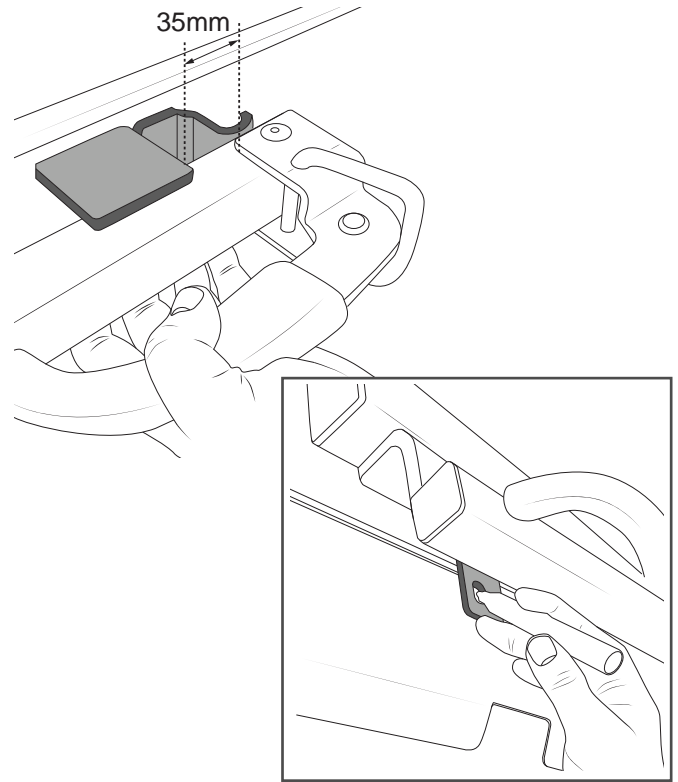


STEP 43 - Locate Catch

To install the carrier catch, close the carrier and hold the catch in position against the Kaymar Bar. Measure 35mm between the handle bracket and the plate of the catch as shown. This measurement must be exact for the catch to function properly.

Check that the catch is sitting vertically level and evenly spaced.

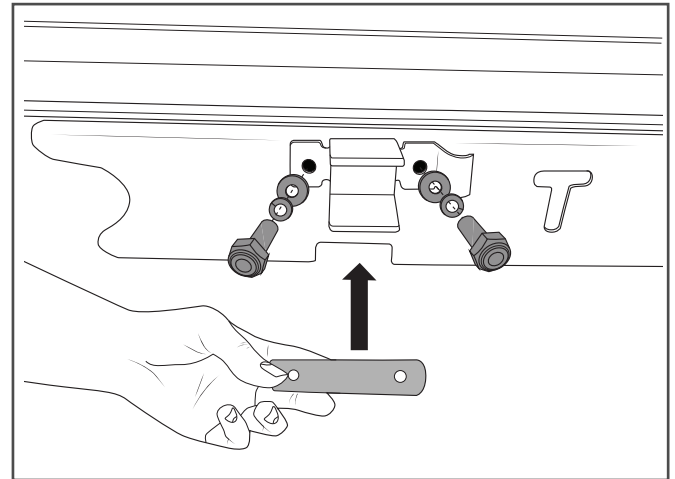
Mark the centrepoint of the slotted holes of the catch onto the Bar. Drill 11mm holes into the Bar.



STEP 44 - Install Catch

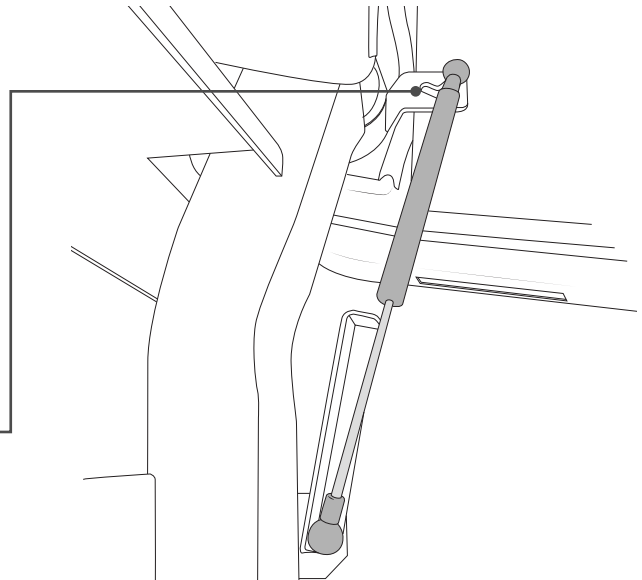
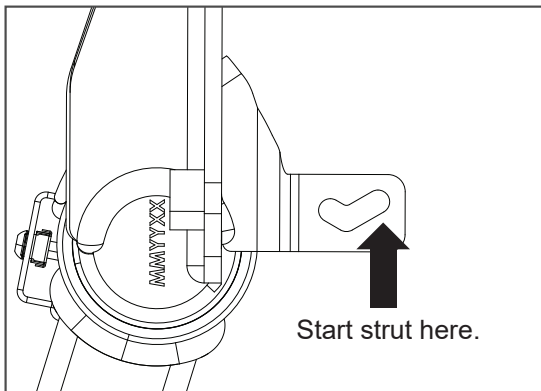
Insert the catch backing plate on the back face of the bar and insert bolts through the bar to fix the catch to the bar. Check the alignment of the carrier arm with the catch bracket and adjust if required before fixing off.

A clear plastic film is provided to install behind the catch hook to prevent damage to paintwork of the bar from handle loop hitting it during operation.



STEP 45 - Install Gas Strut

Place the strut into position as shown, in the longer side of the tick shaped slot. Loosely fit the supplied nylocs, do not tighten yet.

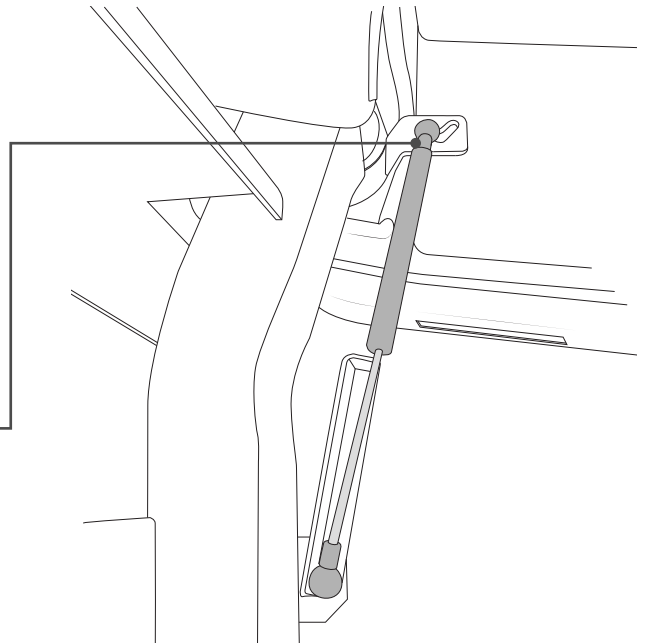
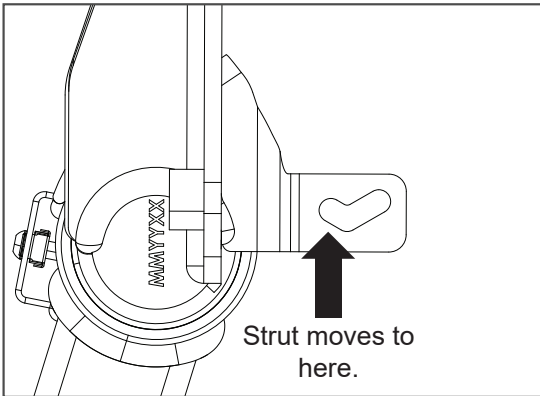


STEP 46 - Install Gas Strut

Close the carrier arm shut. As the carrier reaches the closed position, the strut will pop over to the other side of the tick slot.

Open the carrier again and the strut will be sitting in the position shown.

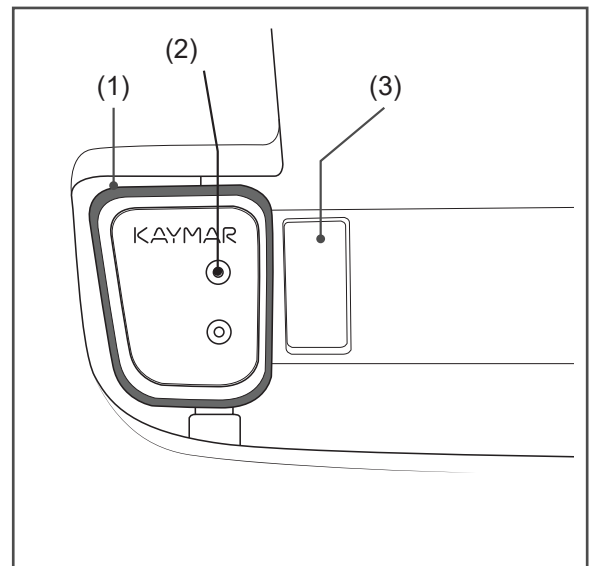
Tighten the nyloc to hold the strut firmly in position.



STEP 47 - Install Reflector Panel Covers

For each side where you are installing a carrier:

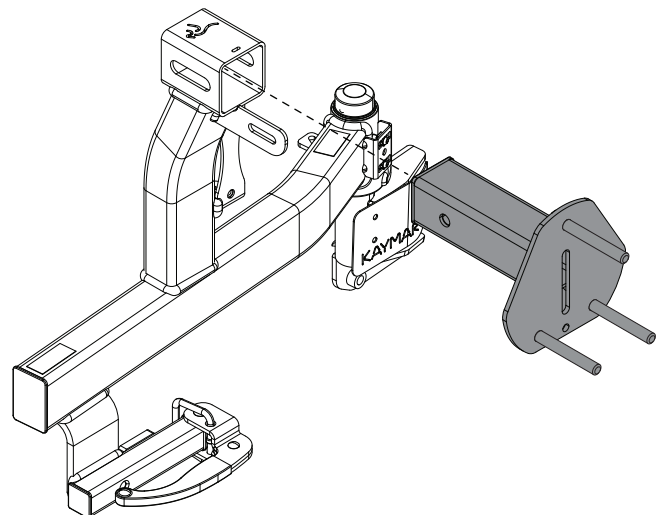
- 1) Fit the supplied pinchweld to the edge of the reflector cover panel and trim to size with cutting pliers.
- 2) Fit the reflector cover panel to the bracket on the hub of the carrier.
- 3) Affix the supplied Kaymar stick-on reflector.



STEP 48 - Fit Top Slide

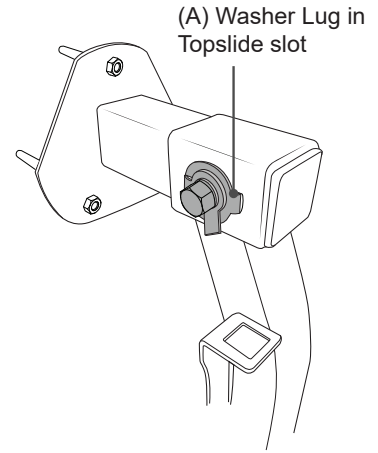
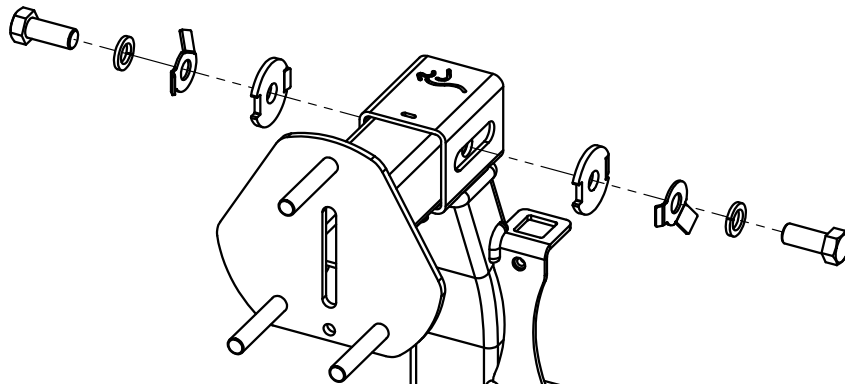
Fit the top slide (wheel holder) into the wheel carrier.

Note: If your car is fitted with an electric tailgate (standard feature on Sahara Models), Kaymar highly recommends installing Kaymar Kit - K6162 LC200 Bump Stop to your Top Slide. For instructions to install the Bump Stop refer to the section at the end of the instructions.



STEP 49 - Fit Top Slide Locking Bolts

- 1) Fit spring washer and small lock tab washer onto the 5/8 UNF bolts.
- 2) Fit the large 5mm thick washer onto the bolt with lug (A) facing away from the head of the bolt.
- 3) Apply a thin film of grease to the bolts.
- 4) Screw the 5/8 UNF bolts through the slots in the wheel carrier housing into the top slide. Make sure that the lug (A) fits into the slot on the Top Slide Mount first. Make sure you fit both bolts.



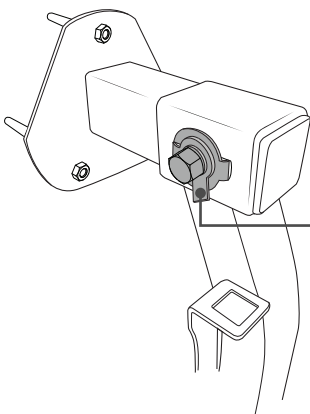
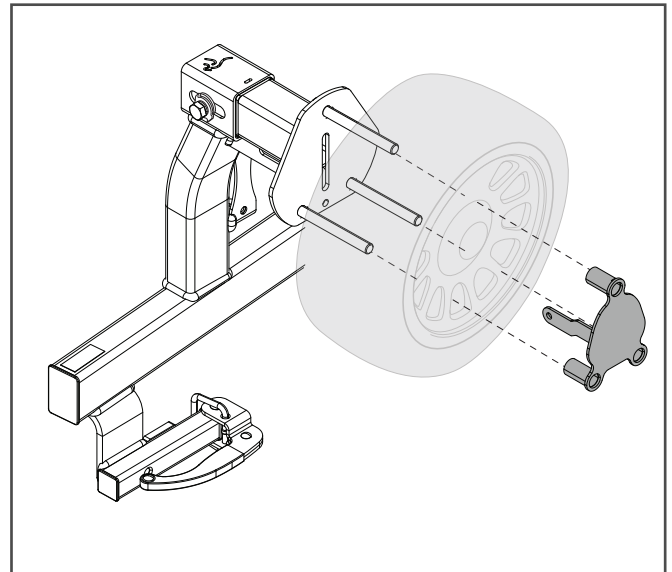
STEP 50 - Fit Wheel to Carrier

Install your spare wheel onto the top slide studs and secure in place with the lock plate supplied wheel nuts/washers. Tighten wheel nuts to 100Nm.

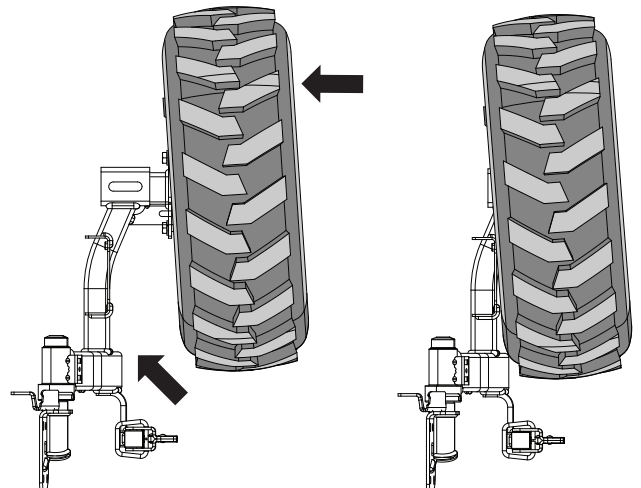
- 1) Open the wheel carrier and stand behind it.

PULL THE TYRE INTO THE CARRIER FRAME SO THAT THE TYRE SITS HARD AGAINST THE FRAME.

- 2) Tighten the two 5/8 UNF bolts to 140 Nm, make sure tab (B) fits into the cut-out in the 5mm washer.
- 3) Continue turning the bolt unit one flat on the hexagon is aligned with tab (C) of the lock tab washer.
- 4) Flatten tab (C) onto a flat of the hexagon on the bolt head. Do the same with bolt bolts. Make sure the whole tab sits flat on the bolt head.



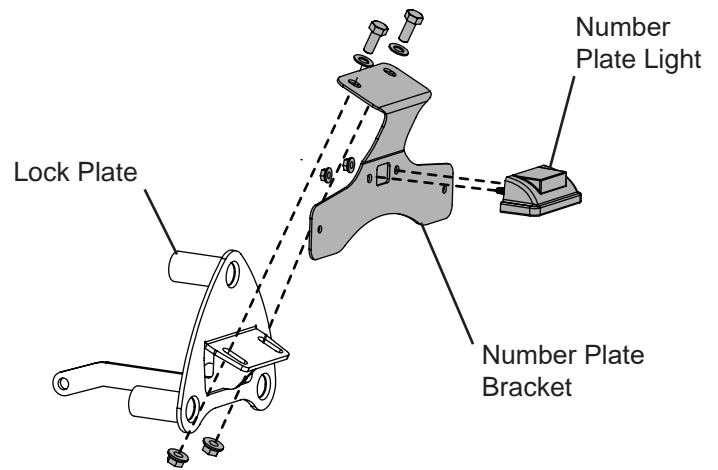
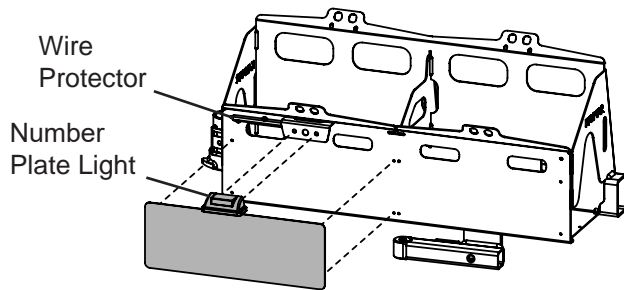
Upper tab (C)
to fold onto bolt
head.



STEP 51 - Relocate Number Plate

Relocate the number plate to either the Jerry Can or the Wheel Carrier (using the the wheel carrier number plate bracket).

Fit the number plate light to the bracket and route the cable.



STEP 52 - Install Tail Lights

Splice into the vehicle trailer plug wiring on the right hand corner of the body. Use wire supplied, long length goes across to the left side. Short length for the right hand side.

Do not splice into wiring behind the lights in the body.

Vehicle must have a trailer plug wiring harness fitted. It must be the flat style (not round).

Splice an extra plug to the brown wire for the number plate lamp.

Note: For facelift models after aug 2015 - if fitting a camera to a carrier or jerry can holder (kits: k6314jc, k6314) refer to separate installation instructions.

Wiring Colours:

LED Lights

Yellow – Indicator
White – Earth
Red – Brake/Stop
Brown – Tail
Black - Reverse

Vehicle

Yellow – Left Hand Indicator
Green – Right Hand Indicator
White – Earth
Red – Stop
Brown – Tail
Black – Reverse

STEP 53 - Final Check

Final Checklist:

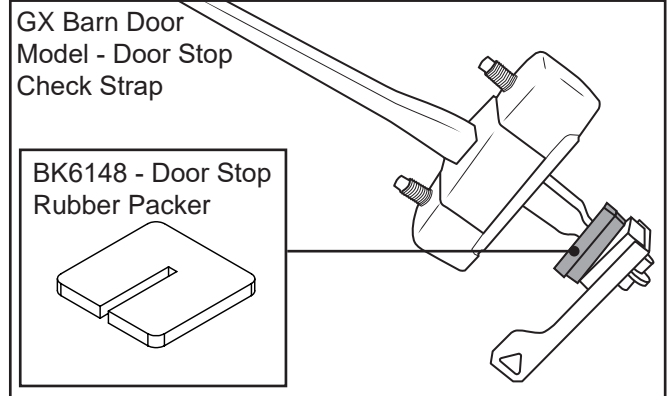
- 1) Lights are working
- 2) All Fasteners have been torqued to spec.
- 3) Sensors (if fitted) are functioning normally
- 4) Camera (if fitted) is functioning normally

GX Barn Door Only

Note: For GX Barn Door Models

On GX models fitted with a barn door, the barn door may need to be adjusted, so the doors do not touch the carrier arms. If the carrier/carriers touch the door.

1. Remove the panel from inside the rear door
2. Undo the 3 bolts that hold the check strap and remove the check strap
3. Using one or both the rubber packers supplied, and fit to the check strap. Tape rubber packers in with electrical tape.
4. Refit the check strap and the panel.



Tailgate Bump Stop

Note: For vehicles with an electric tailgate (Sahara).

If your car is fitted with an electric tailgate, Kaymar highly recommends installing Kaymar Kit - K6162 LC200 Bump Stop.

This process fits an emergency rubber bump-stop to prevent accidental damage if the tailgate release is activated before the carrier is opened.

Fit the M10 bolt with washer through rubber stopper and 6mm spacer washer.

Pry out the plastic end cap from the top slide and replace with the steel backing washer as shown. Tap firmly in place.

Drill through the top slide/backing washer and rivet in place.

This is only a buffer for rear power door if accidentally operated while carriers are closed

Note: Kaymar is in no way responsible for any damage caused by operating power door while carriers are closed or not fully open.

