



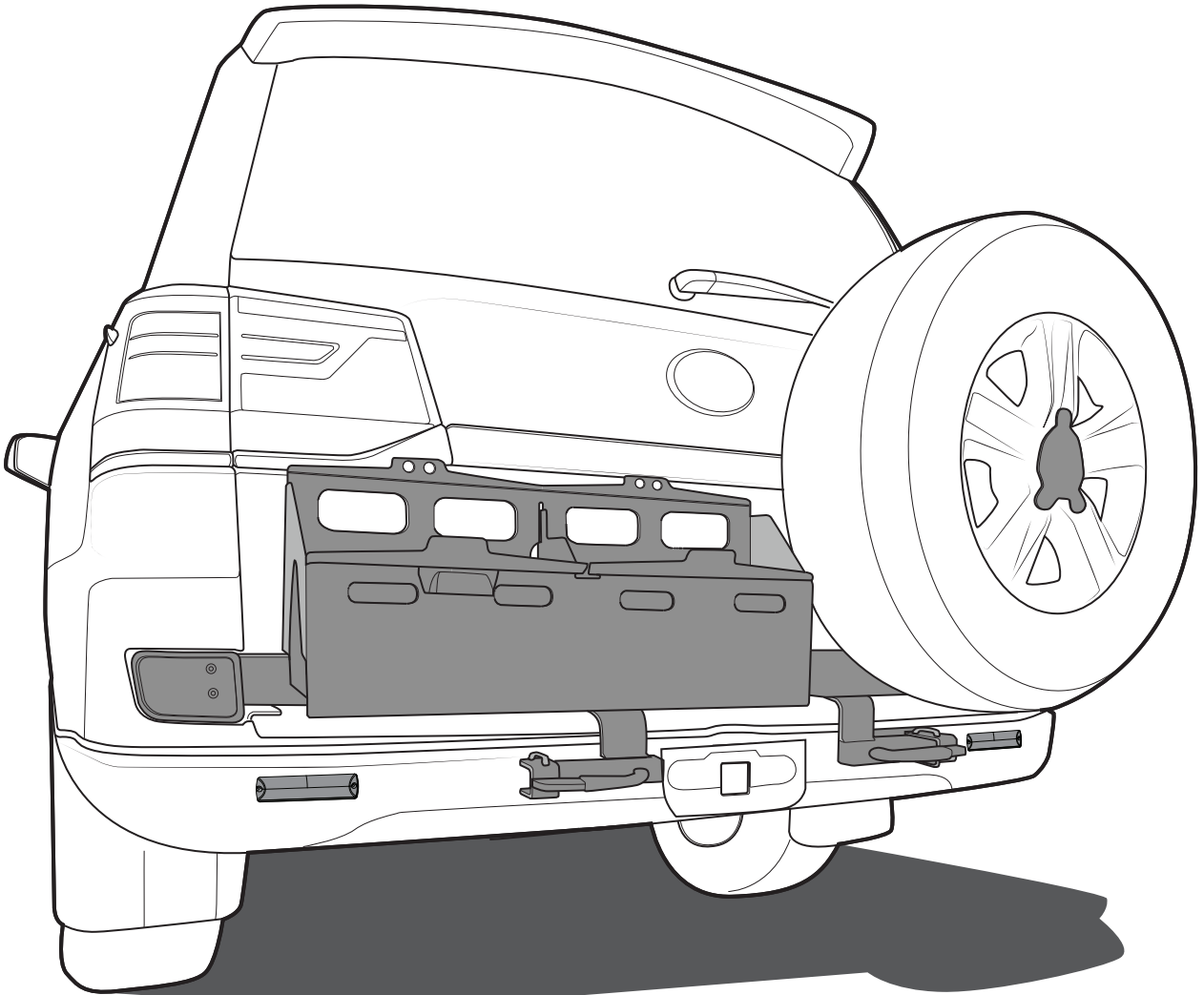
## TOYOTA LC200 - CARRIER ONLY

Fitting Instructions for:

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

Applies to Kaymar Kits:

KIT200-STD, KIT200-STDL-JC,  
KIT200-STDR-JC, KIT200FLGXL-STD,  
KIT200FLGXL-STDL-JC, KIT200FLGXL-STDR-JC,  
KITGX200-STD, KITGX200-STDL-JC,  
KITGX200-STDR-JC,  
K20010L, K20010R, K20012L, K20012R, K20013L,  
K20013R, K20015L, K20015R, K20017L, K20017R,  
K20018L, K20018R



### ⚠ CAUTION

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

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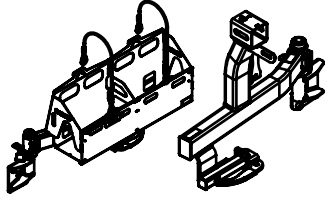
This kit weighs in excess of 15kg.  
Seek help to lift if required.

### CARE INSTRUCTIONS

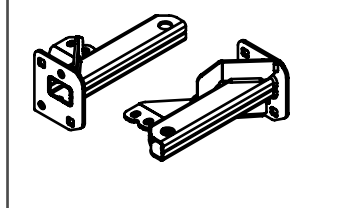
Wash with regular car wash products.  
Regularly check bolt torque settings.

# LC200 CARRIER COMPONENTS

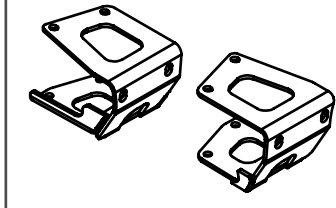
1 Carrier Assemblies



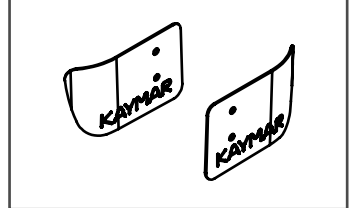
2 Corner Brackets L&R



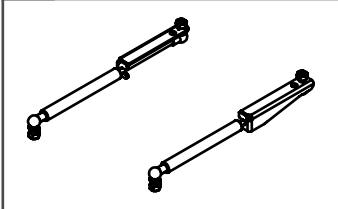
3 Catch Mount Bracket L&R



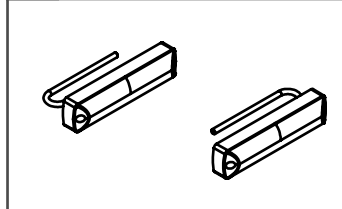
4 Reflector Cover Panel L&R



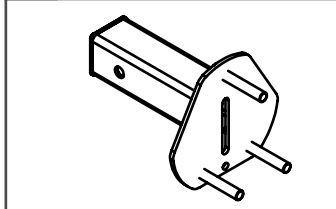
5 Gas Struts L&R



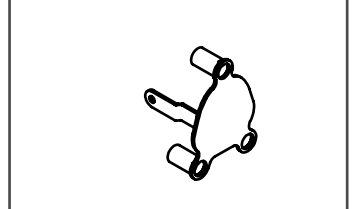
6 Tail Lights L&R



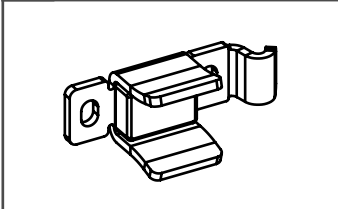
7 Top Slide



8 Lock Plate



9 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 (and preferably a step drill)
- Angle Grinder or Oscilating Multi Tool
- Die Grinder or Dremel

# BOLT KIT CONTENTS

## 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 Chasis Nut on Wire	2
M12 Plain Washer	6
Stick-on Red Reflector	1
8x5mm 1m Long Pinch Weld	1

## Catch Support Bolt Kit- BK6146

1 x BK6146 kit supplied per carrier

Description	Qty
Catch Spacer Plate	1
Bumper Catch Spacer Bush	2
M10x130 Hex Head Bolt	2
M10 Plain Washer	2
M10 Nylon Hex Nut	2
100x17.2 Round Spacer Tube	2

## 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

## Bolt Torques

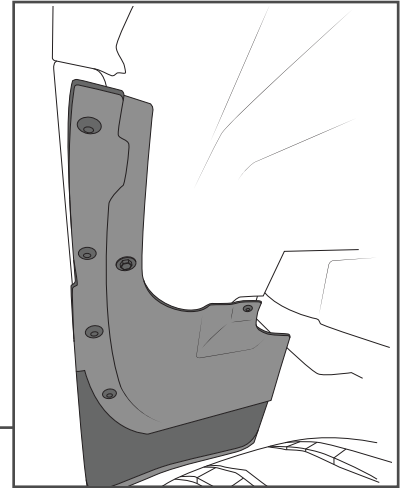
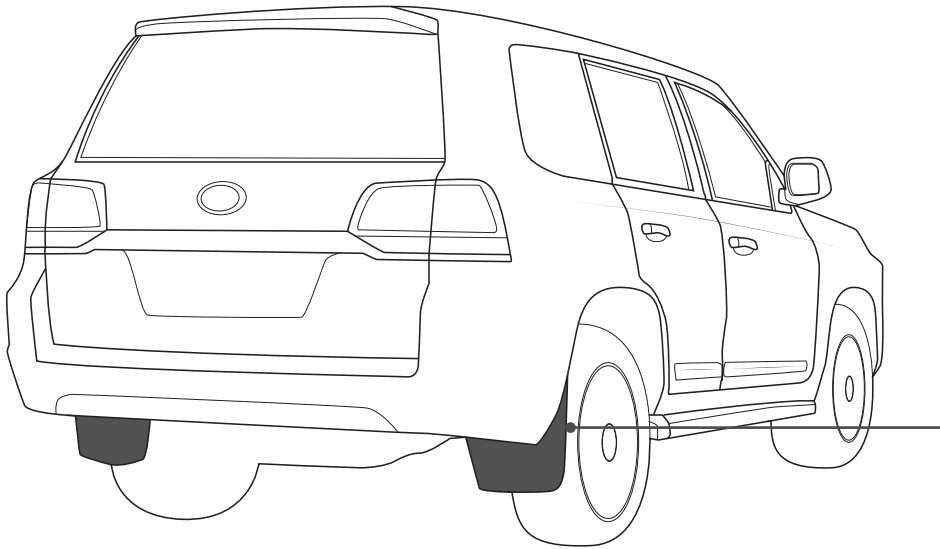
Individual steps will provide torque required for fasteners

Bolt	Torque
M14x35 Hex Head Bolt	140 Nm
M12x50 Hex Head Bolt	89 Nm
M12x30 Hex Head Bolt	89 Nm
M10x45 Hex Head Bolt	62 Nm
M10x30 Hex Head Bolt	62 Nm

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

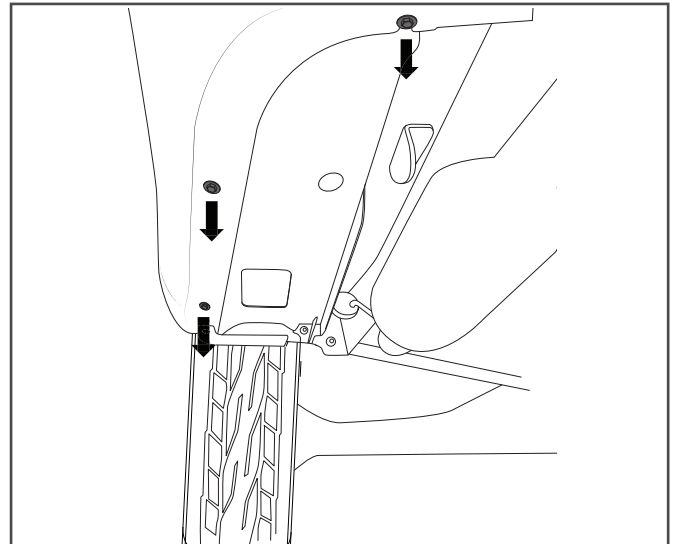
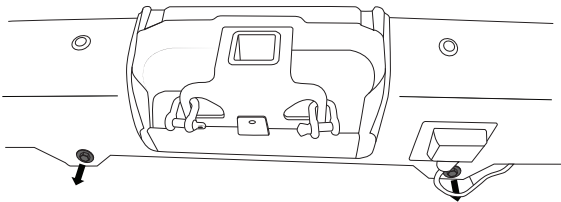
## STEP 1 - Remove Fasteners

Undo and remove the screws and retainer clips fixing the bumper to the mudflaps.



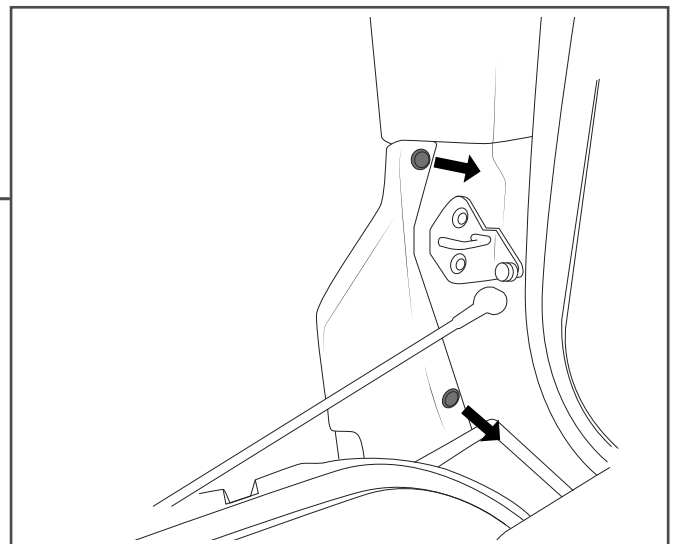
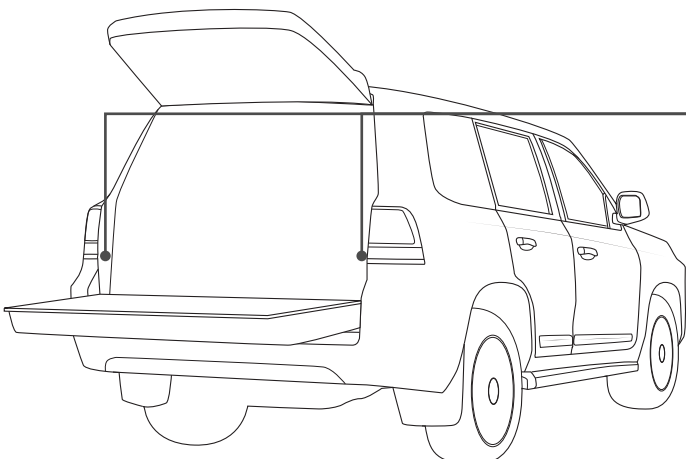
## STEP 2 - Remove Fasteners

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.



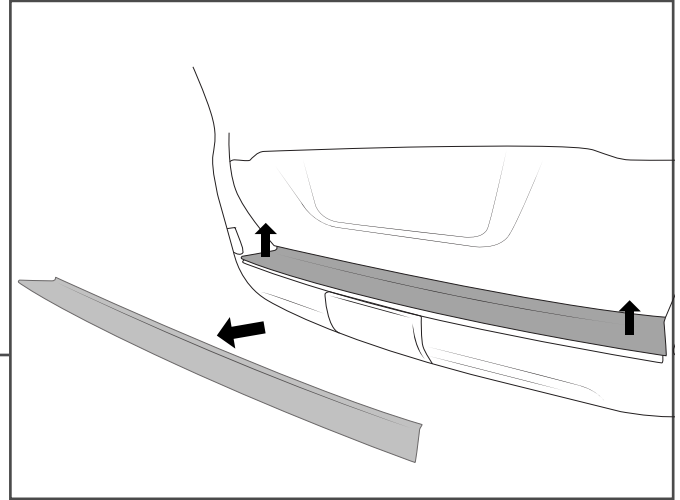
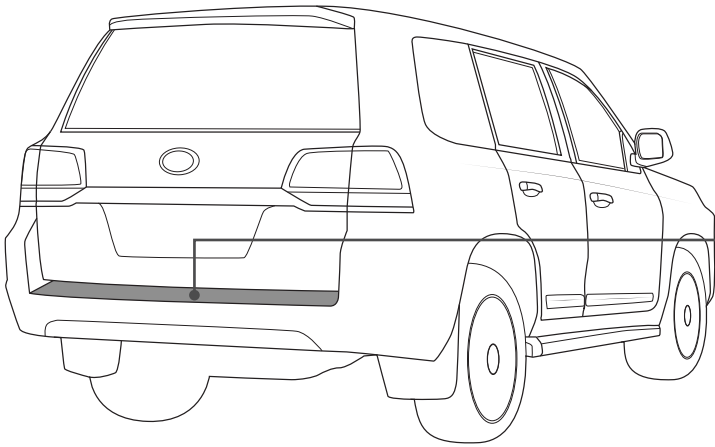
## STEP 3 - Remove Fasteners

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



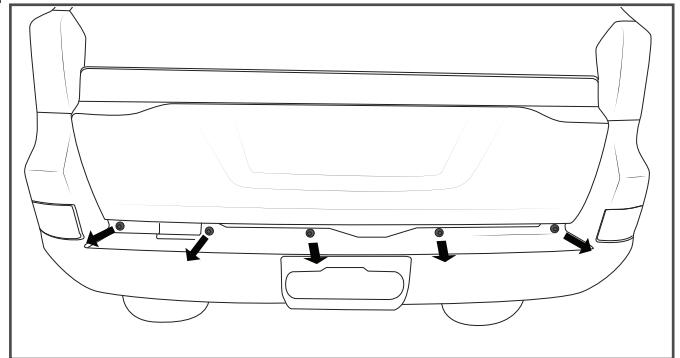
## STEP 4 - Remove Step Tread

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



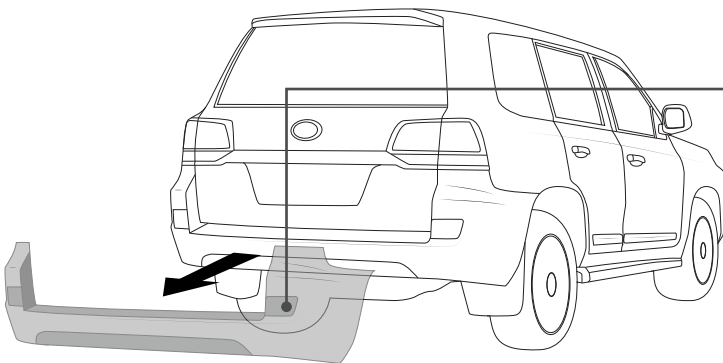
## STEP 5 - Remove Fasteners

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

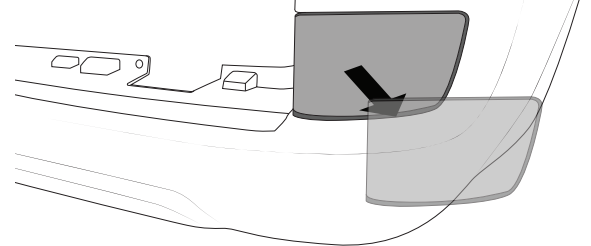


## STEP 6 - Remove Reflector Panel

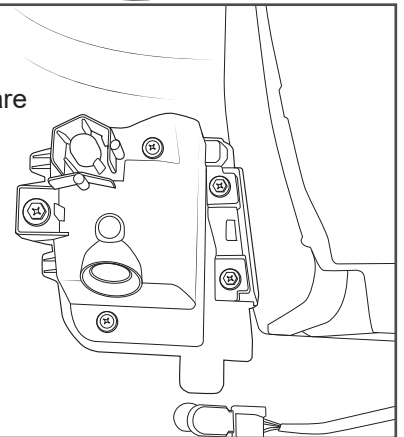
With all fasteners removed, starting at the wheel arch pry the bumper panel, gently pulling outwards on panel to release it from the clips.



With the Bumper removed, remove the red reflector from the panel.

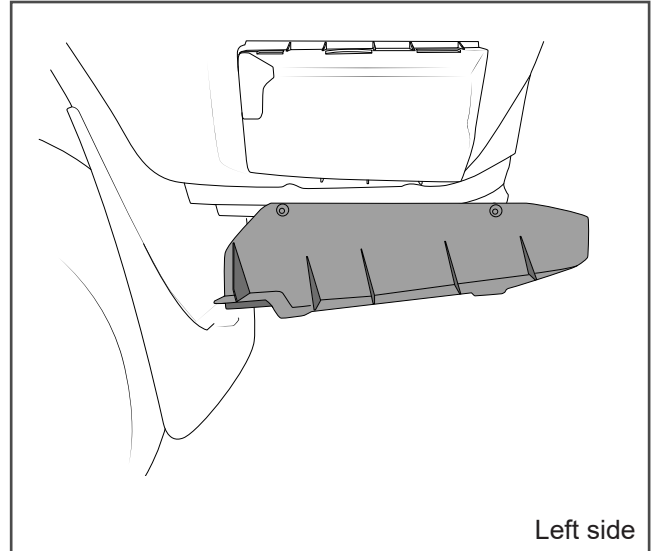


Interior of reflective panel:  
Remove hardware  
to release the  
panel.



## STEP 7 - Remove Splash Panel

For each side where you are installing a carrier, undo the fasteners fixing the rear corner splash panels to the vehicle, and remove.

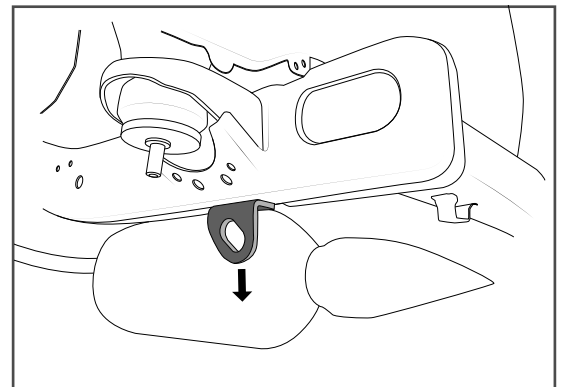
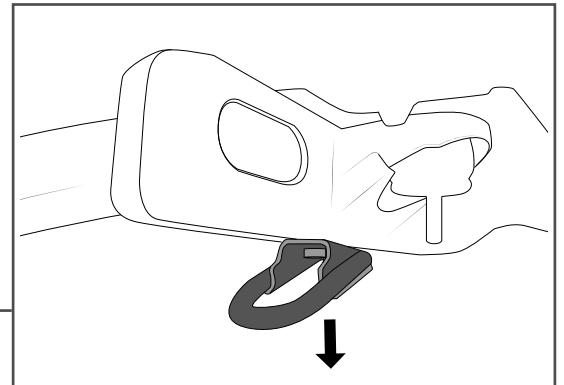
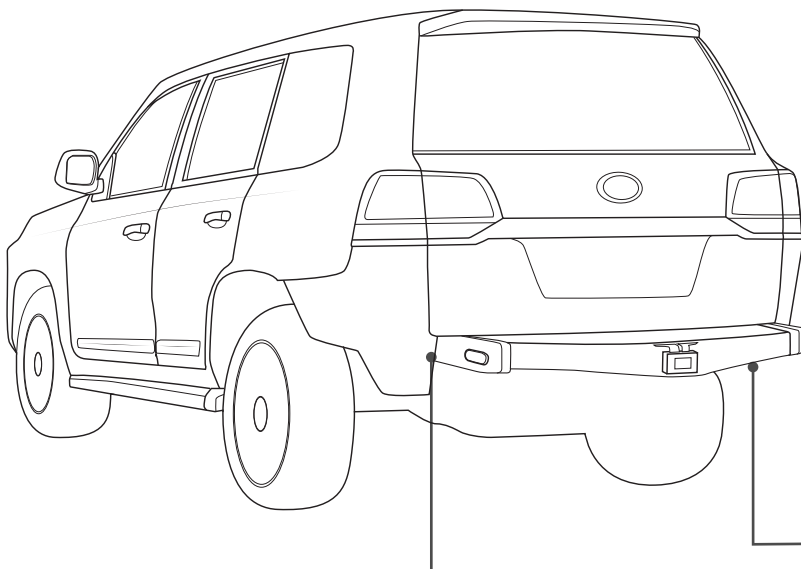


## STEP 8 - Remove Lugs

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.



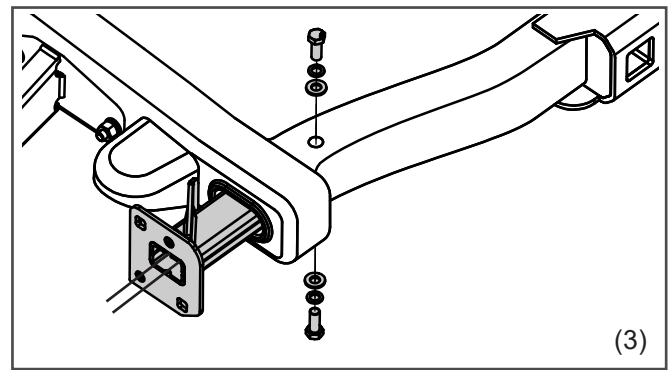
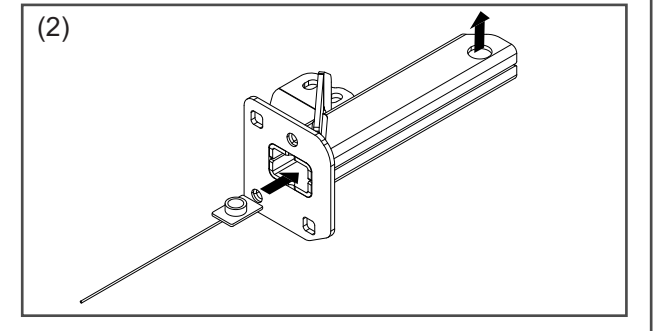
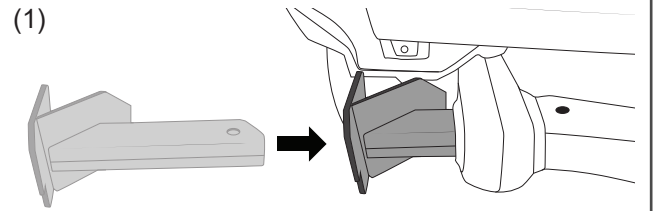
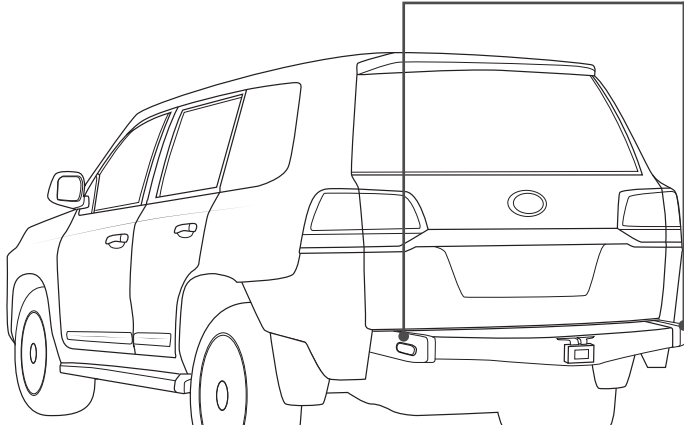
## STEP 9 - Fit Corner Bracket

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) 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**.

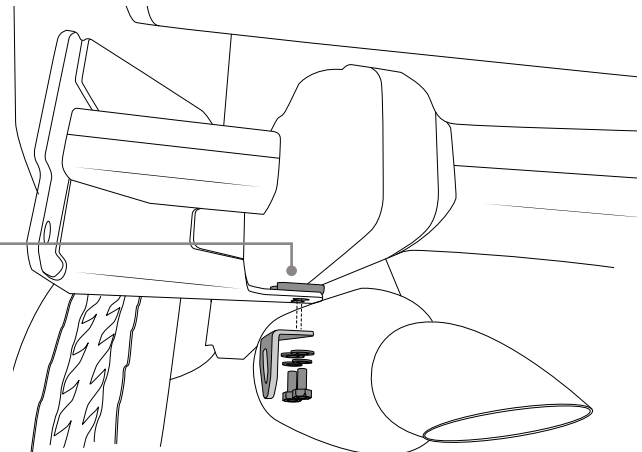
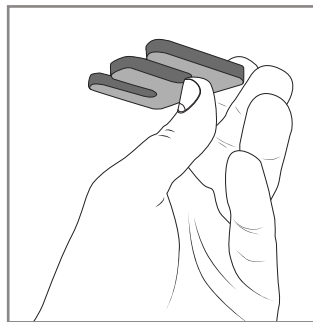
Repeat the same process for the captive nut facing down.



## STEP 10 - 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 11 - Torque Corner Bracket

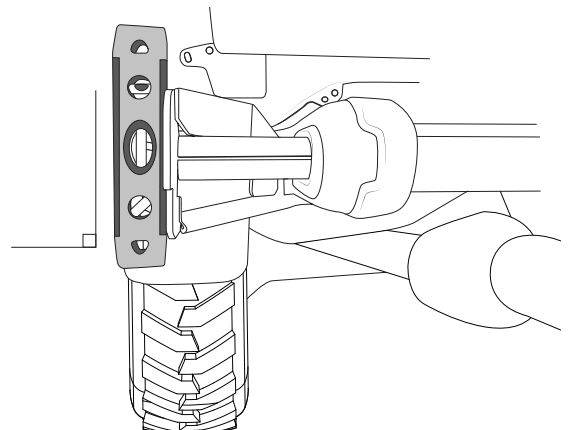
The Corner Brackets must be installed so they are vertically in-line with the vehicle chassis. **The vehicle must be level when you tighten the corner bracket fasteners.**

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.

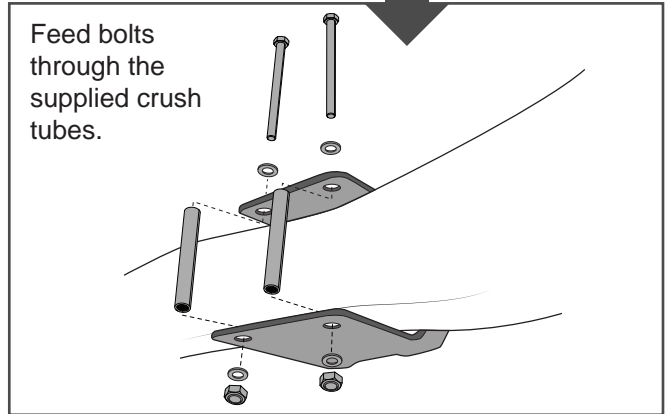
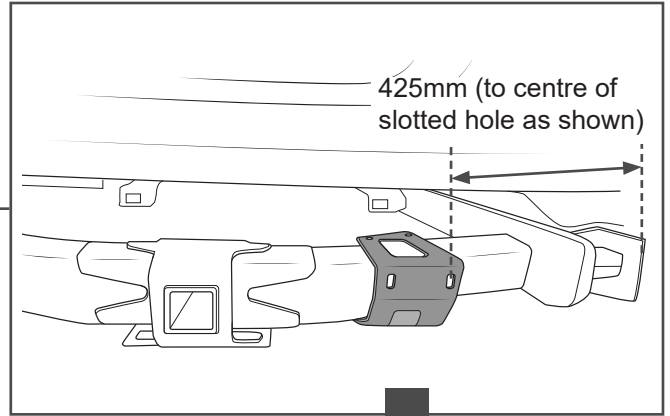
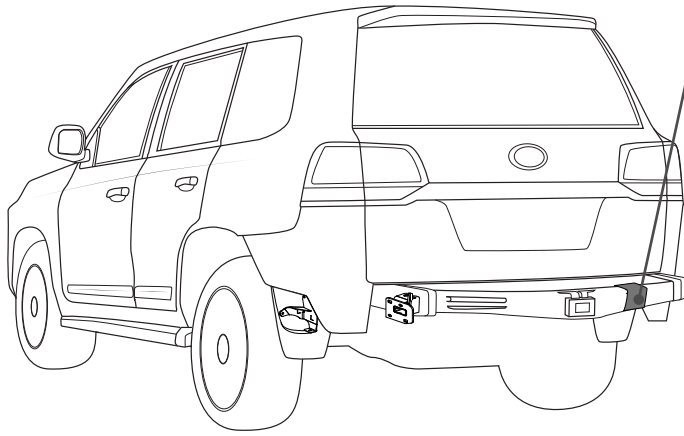
**M12x50 - 89 Nm**

**M14x35 - 140 Nm**



## STEP 12 - Fit Catch Mount Bracket

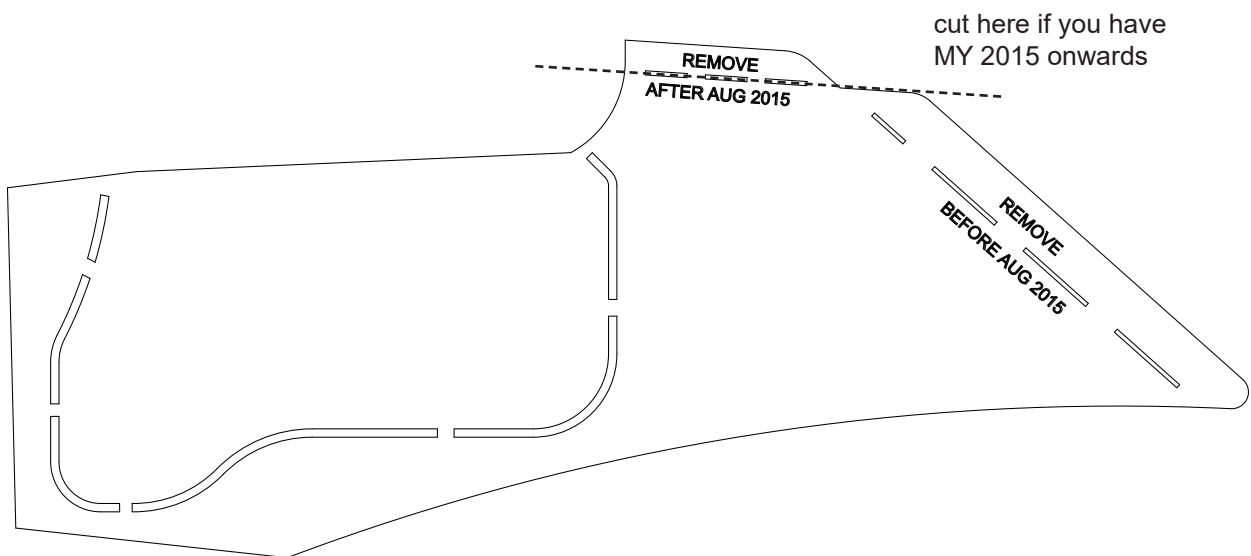
For each side that you are installing a carrier, slide the chassis mount bracket over the chassis cross member. Position the bracket so that the centre of the outer slotted hole measures 425mm to the inside face of the Corner Bracket mounting plate.



## STEP 13 - 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).

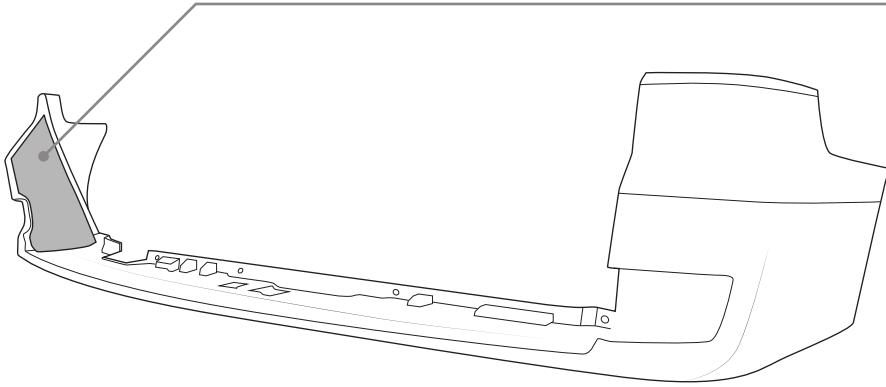
Before using the template cut along the dotted line on the template to remove the tab corresponding to your vehicle.



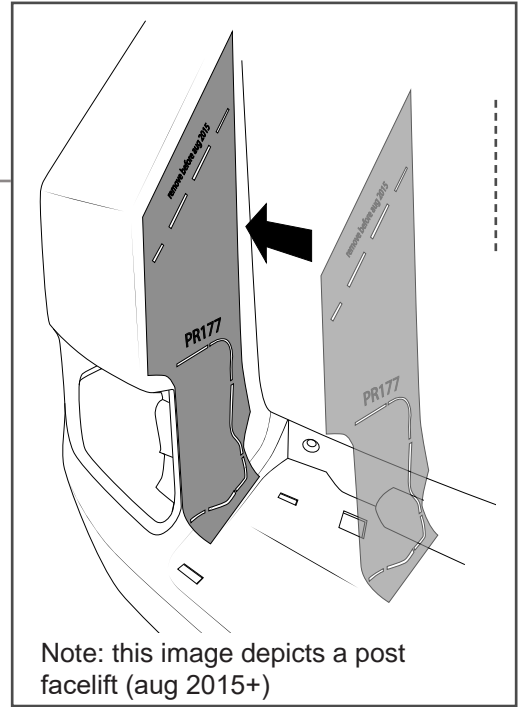
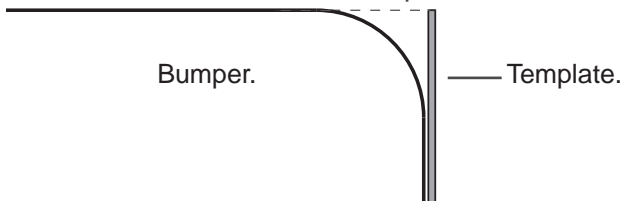


## STEP 14 - Fix Template

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.

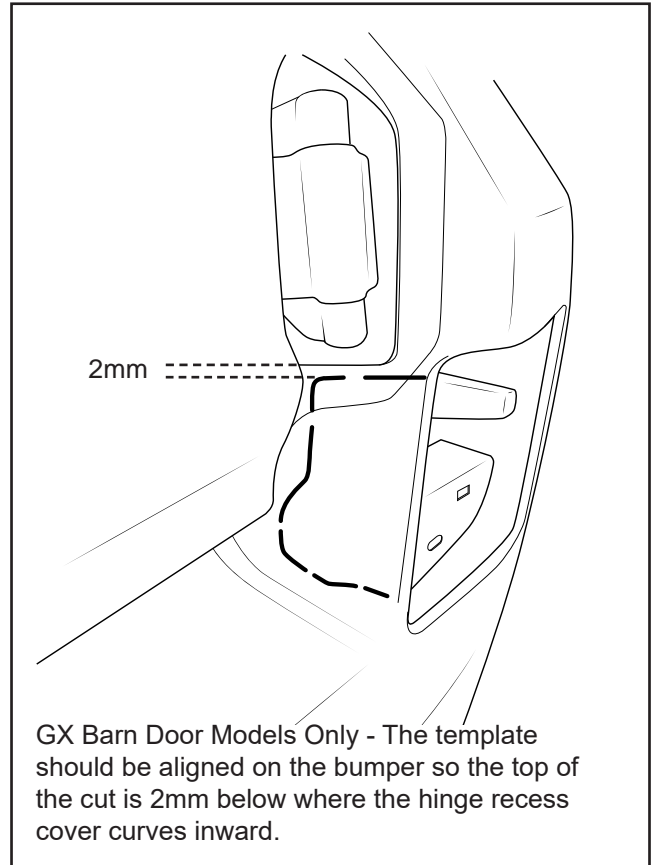
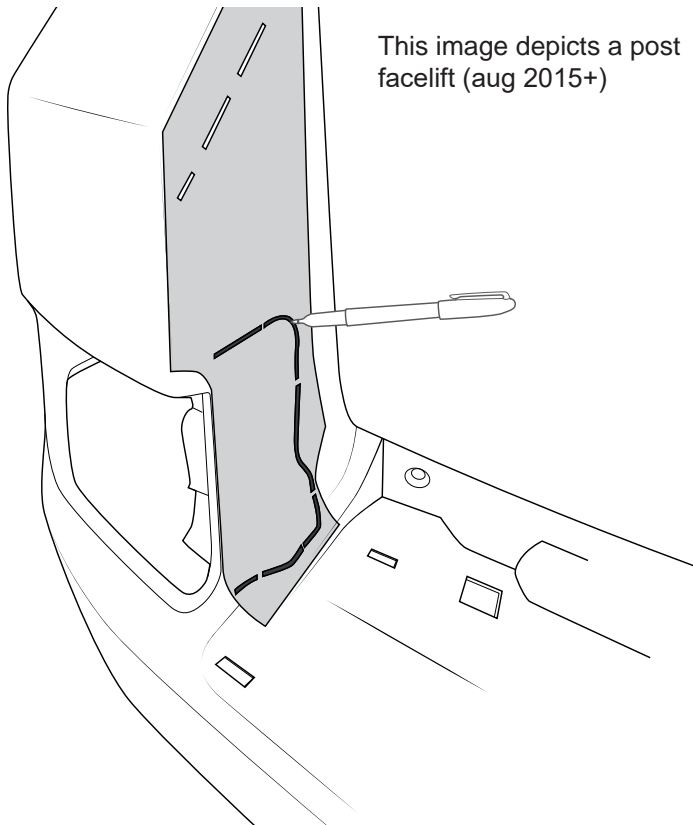


Edge of template in line with face of the body panel.



## STEP 15 - Trace Template

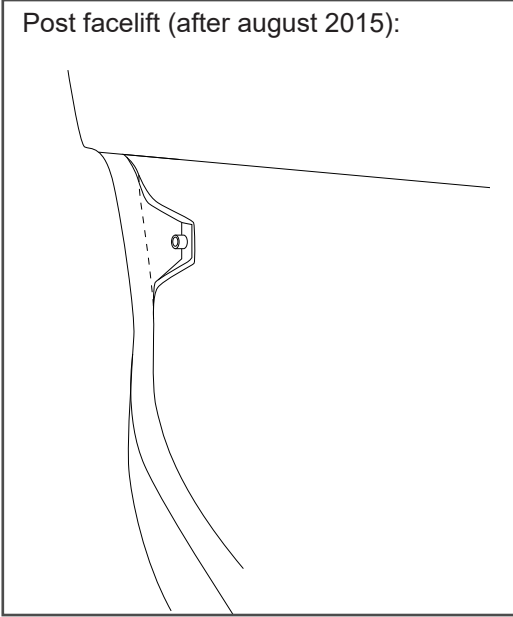
Use a marker to trace out the cutting lines in the template.



## STEP 16 - Mark Out Support Structure

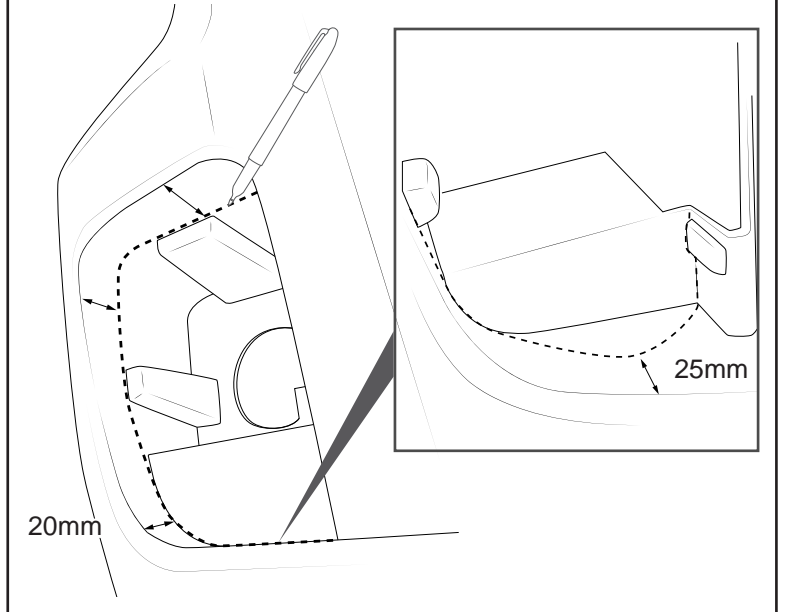
Mark out where you will remove the reflector panel support structure.

Post facelift (after august 2015):



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.

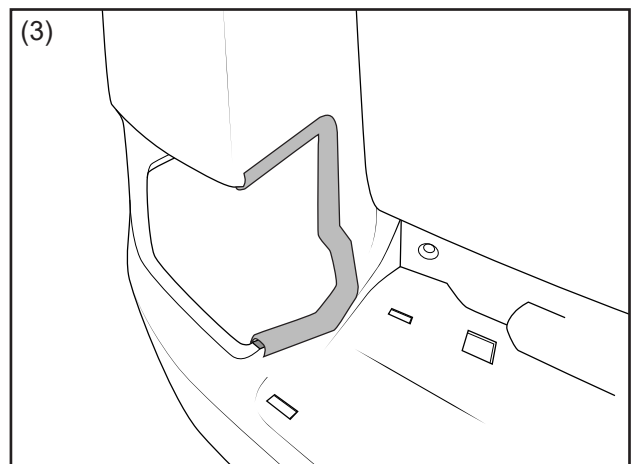
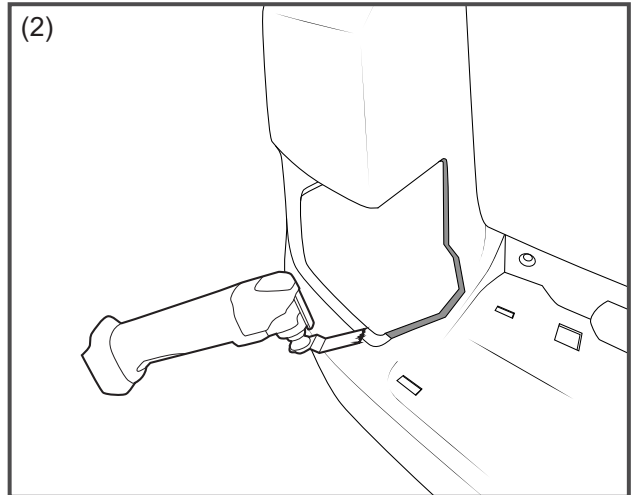
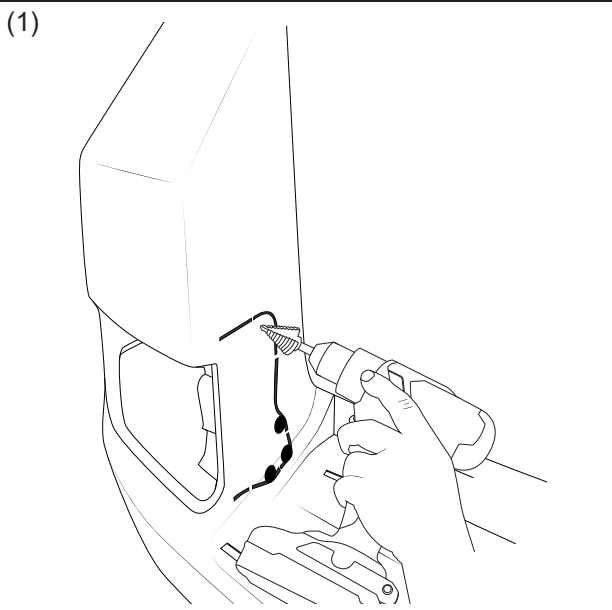


## STEP 17 - Cut Carrier Hole

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.

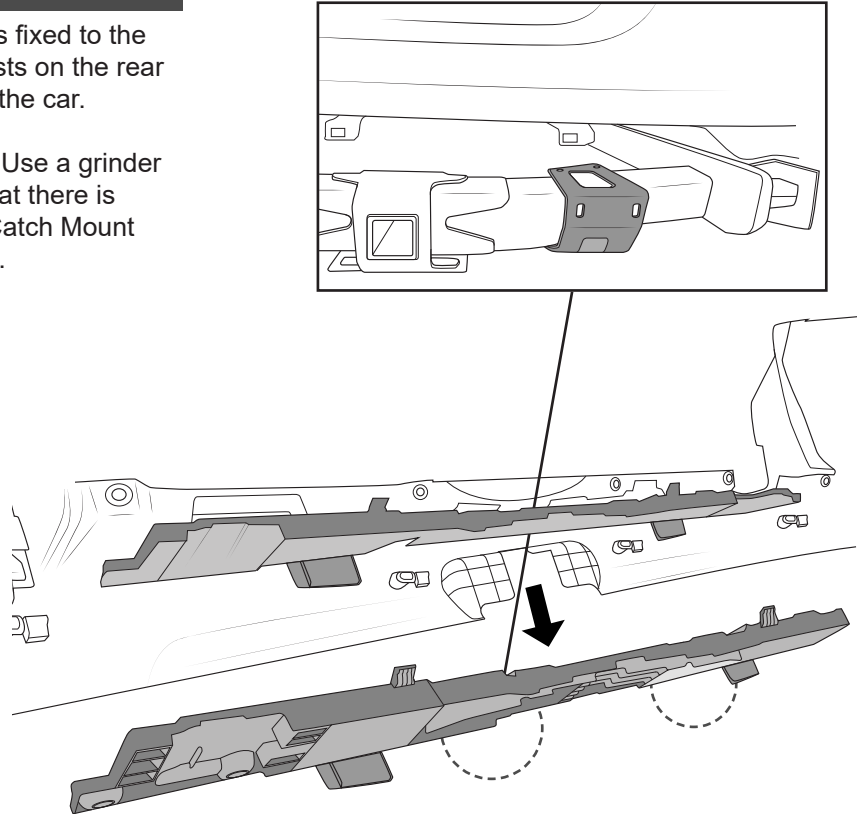
3) Fit the supplied pinchweld to the cut edge around where you marked out using the template, trim to size with cutting pliers.



## STEP 18 - Remove 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 each side where you will be installing a carrier, Use a grinder to remove approximately 10 mm of material, so that there is adequate clearance for the Kaymar components (Catch Mount Bracket and fasteners) that you fitted to the vehicle.



Interior of Removed Bumper

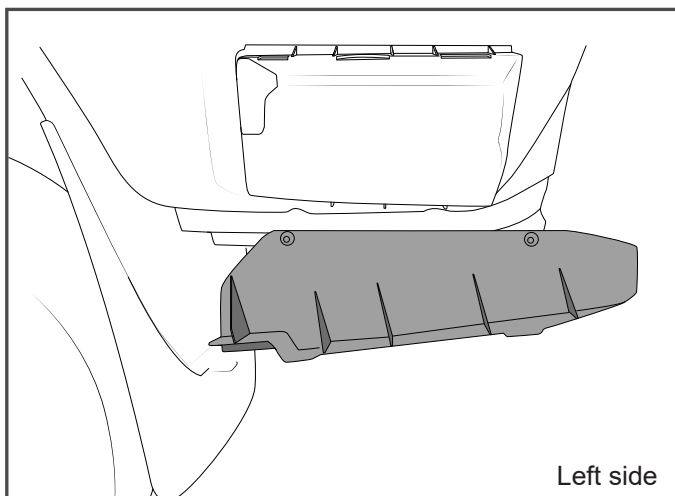
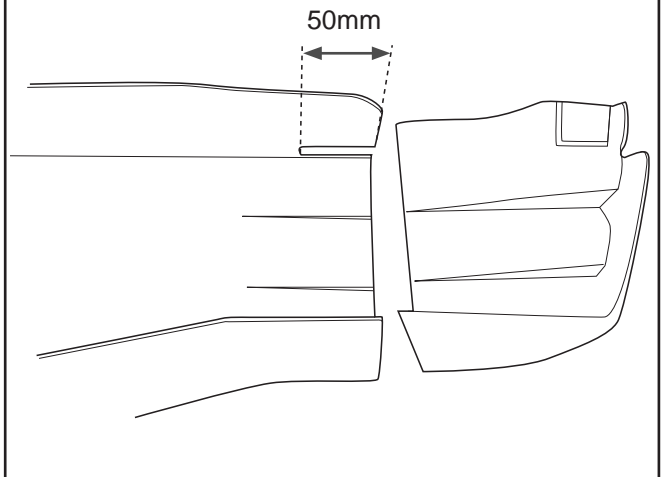
## STEP 19 - Cut and Refit Splash Panel

For each side where you are installing a carrier, cut the end off the splash panel, inline with the inner upright. Next cut a slot into the inner upright, just up from the base.

Refit the splash panel using the original square plastic pull through plugs and fasteners.

Check that the splash panel doesn't interfere with the Corner Bracket.

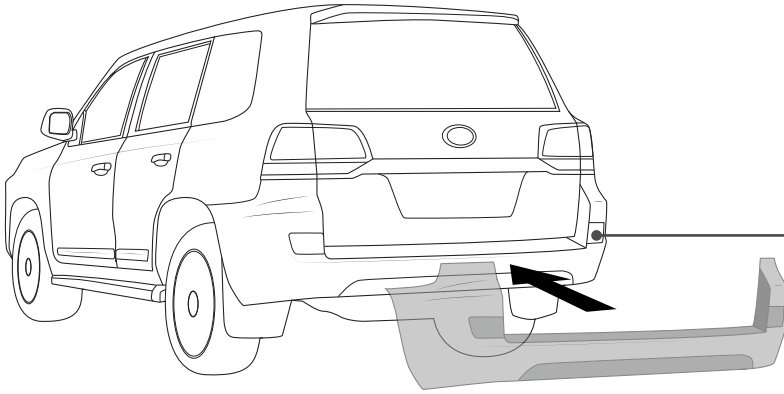
Cut the rear end off splash panel infill. Slot the section as shown.



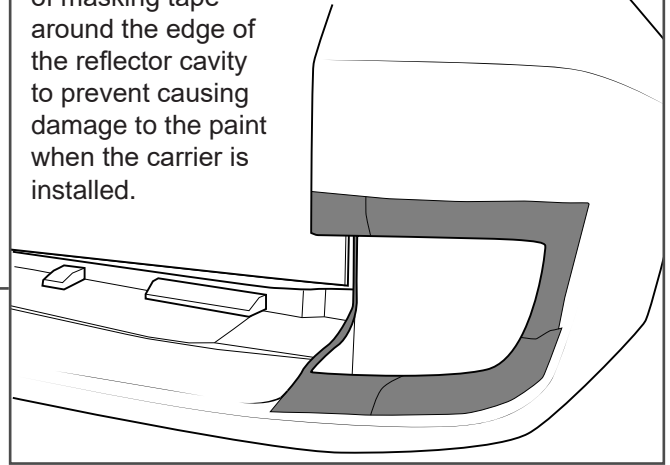
Left side

## STEP 20 - Prep Bumper for Carrier

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.



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.



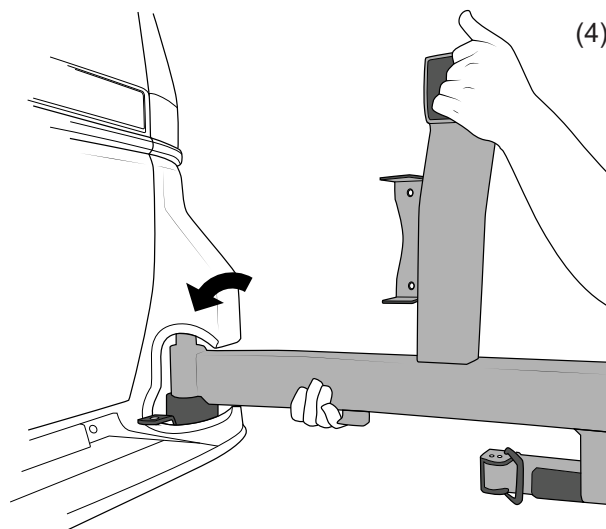
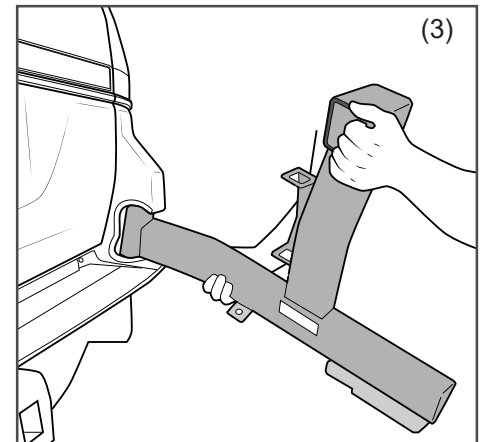
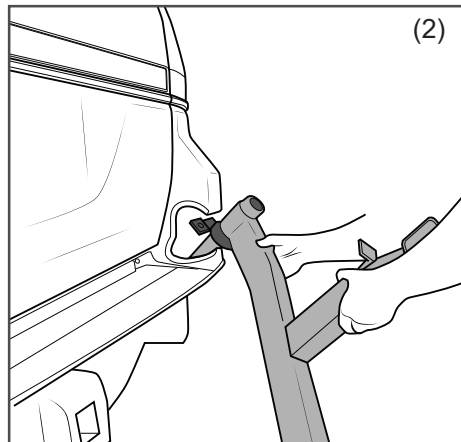
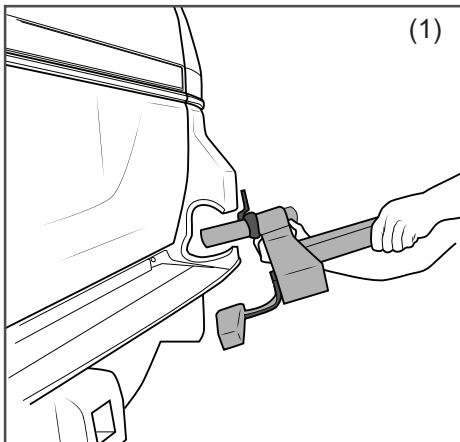
## STEP 21 - Install Carrier

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.

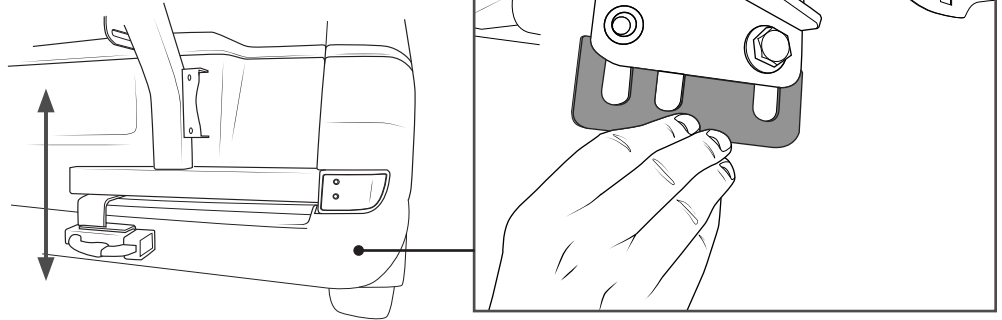
Tighten the four bolts firmly. Make sure the carrier is vertical or leaning slightly in towards the tailgate (when viewed from the side) and parallel with the bottom of the tailgate when viewed from the back.



## STEP 22 - 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).

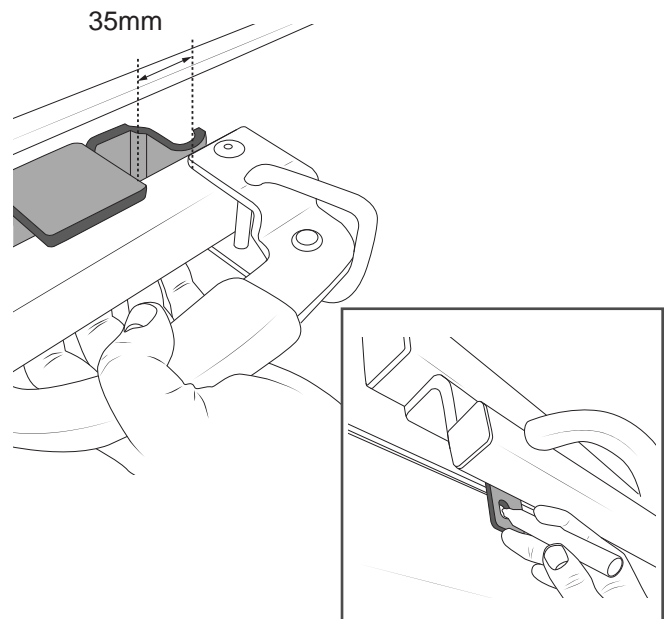


## STEP 23 - Locate Catch

To install the carrier catch, close the carrier and hold the catch in position against the bumper. 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 centrepont of the slotted holes of the catch onto the Bumper. Use a step drill to drill holes out to 24mm diameter. When drilling ensure the bumper is spaced away from the catch mount bracket, and you're only drilling the bumper.



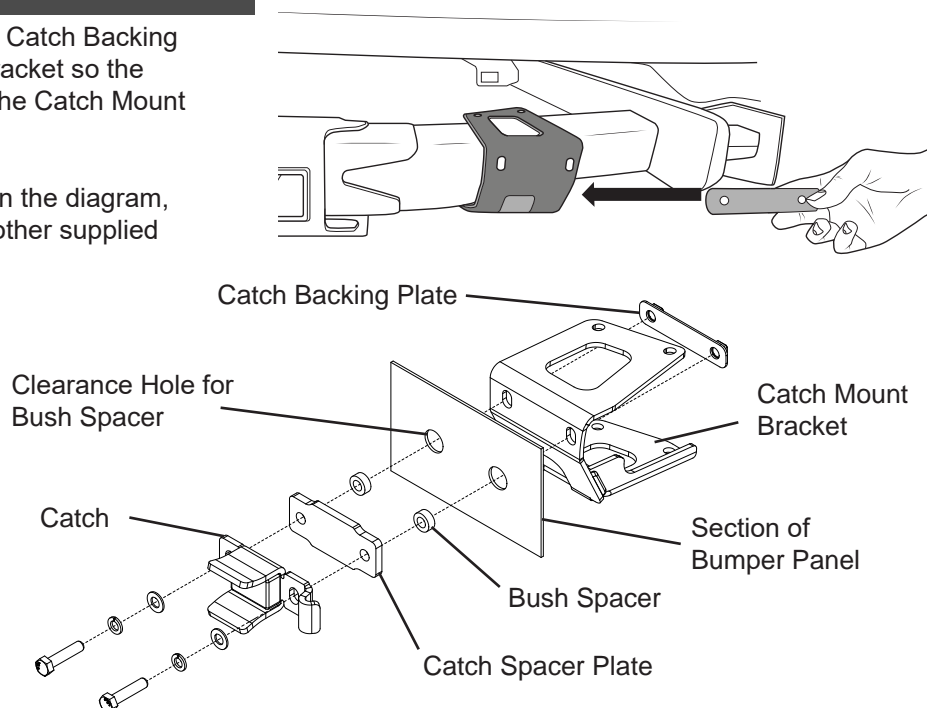
## STEP 24 - Install Catch

Reaching up behind the bumper, position the Catch Backing Plate on the back face of the Catch Mount Bracket so the welded nuts line up with the slotted holes in the Catch Mount Bracket.

Using the exploded view of the components in the diagram, fit the catch using the M10x45mm bolts and other supplied components shown.

It is important that the bush spacers do not clamp down on the bumper panel when you tighten the bolts.

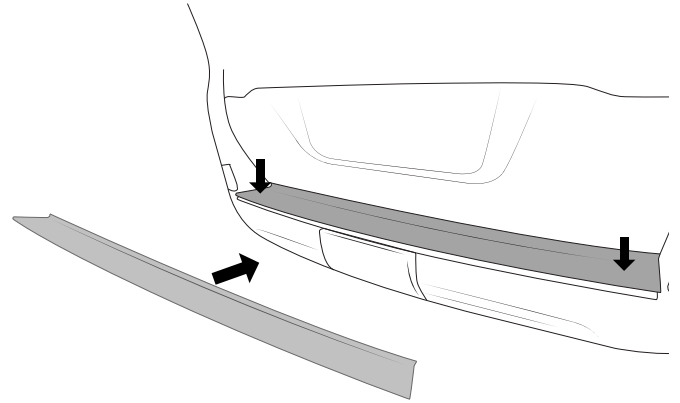
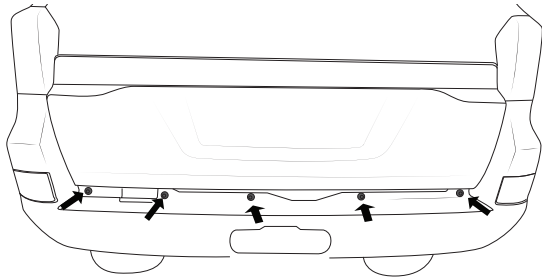
A clear plastic film is provided to install behind the catch hook to prevent damage to paintwork of the bar from handle loop hitting it during operation.



## STEP 25 - Refit Step Tread Panel

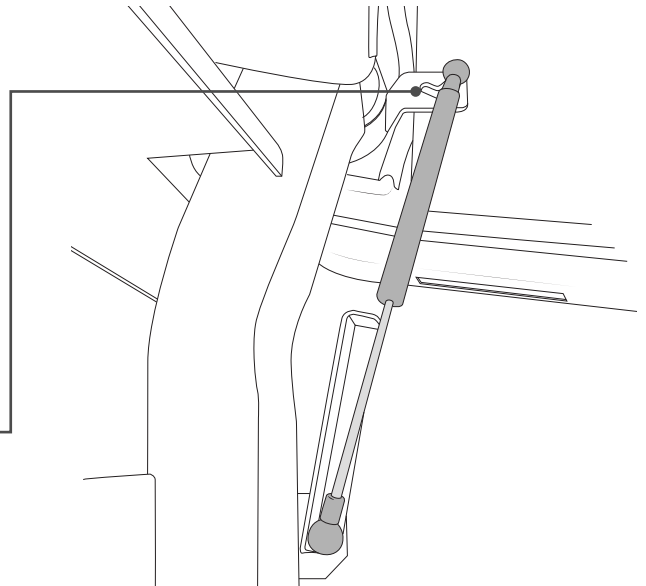
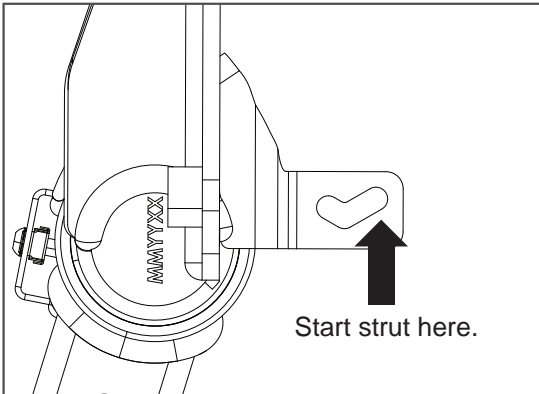
Re-install the bumper step fasteners with rubber washers.

Refit the bumper step tread panel.



## STEP 26 - 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.

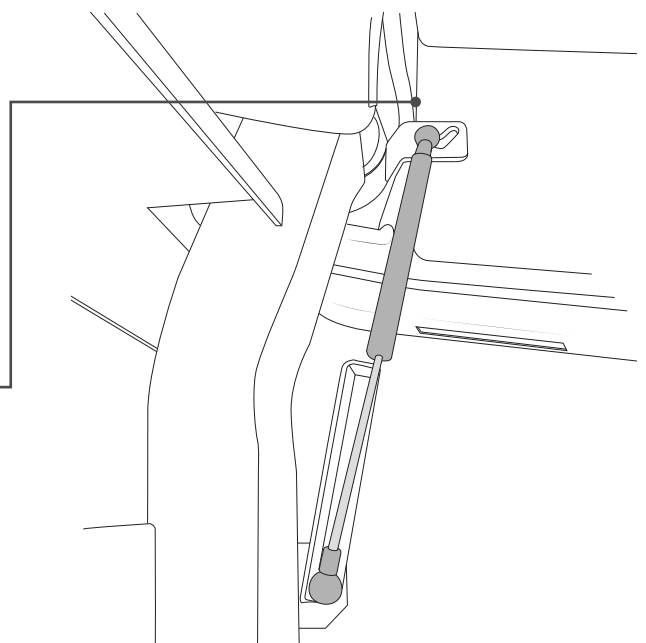
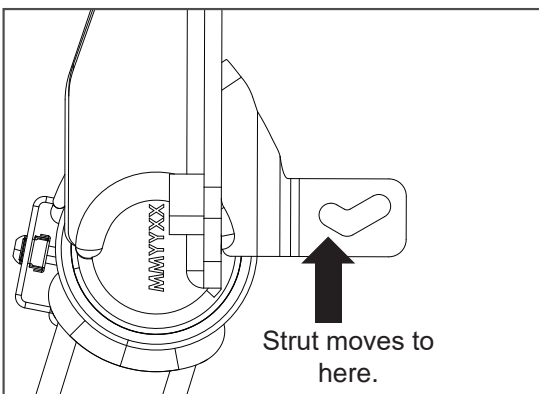


## STEP 27 - Install Gas Strut

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.

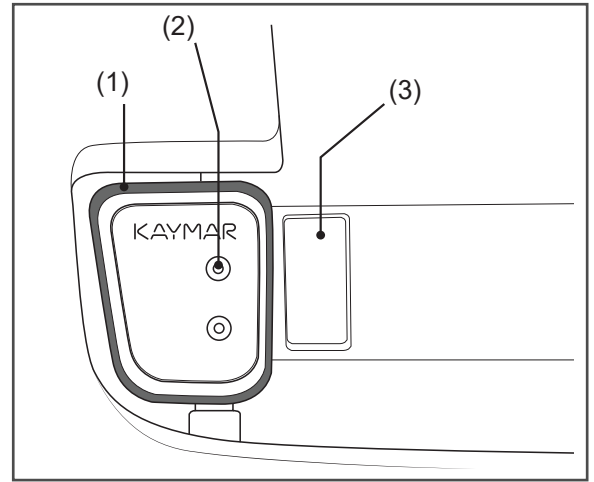
Tighten the nyloc to hold the strut firmly in position.



## STEP 28 - Install Reflector Panel Covers

For each side where you are installing a carrier:

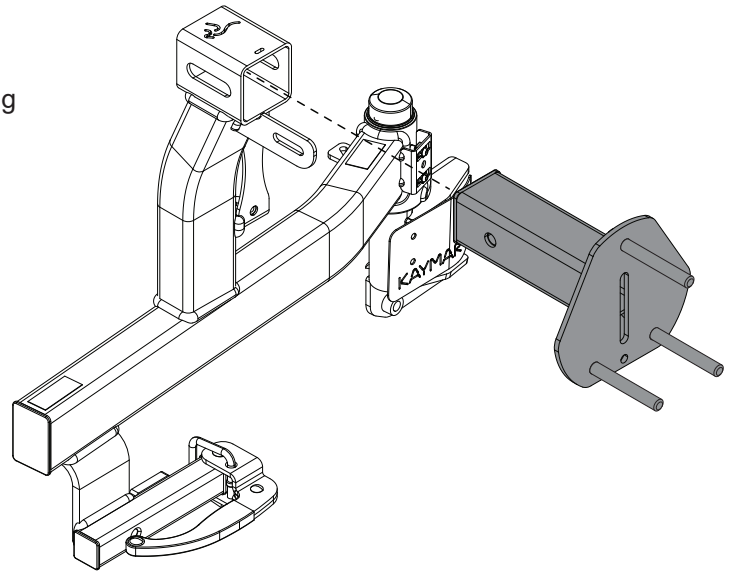
- 1) Fit the supplied pinchweld to the edge of the reflector cover panel and trim to size with cutting pliers.
- 2) Fit the reflector cover panel to the bracket on the hub of the carrier.
- 3) Affix the supplied Kaymar stick-on reflector.



## STEP 29 - Fit Top Slide

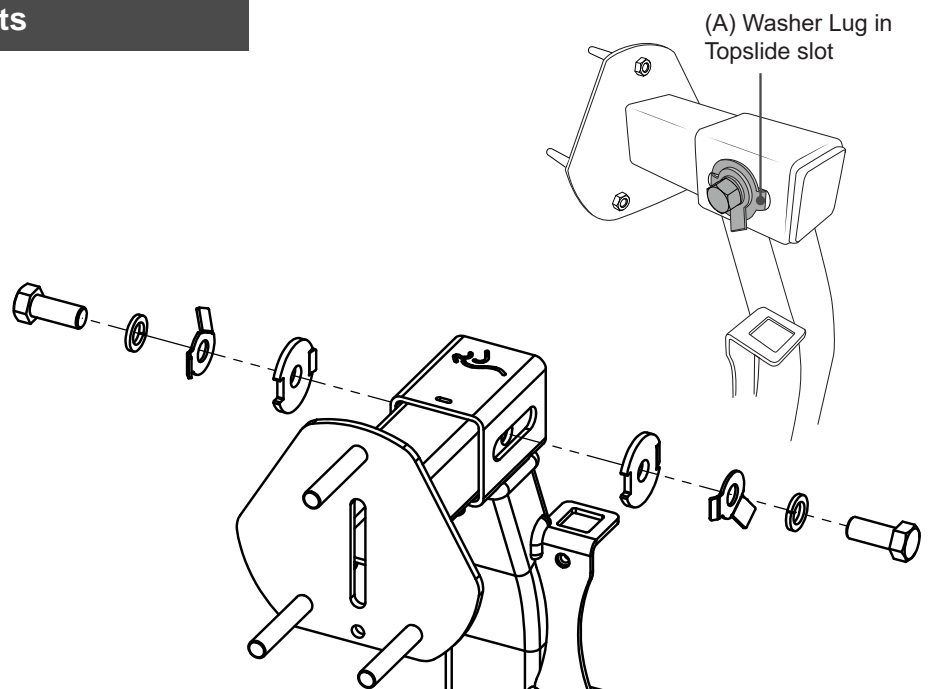
Fit the top slide (wheel holder) into the wheel carrier.

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 30 - 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 31 - Fit Wheel to Carrier

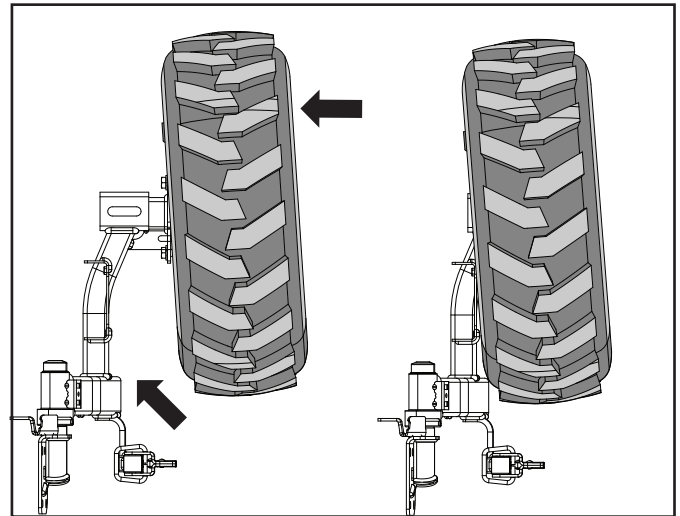
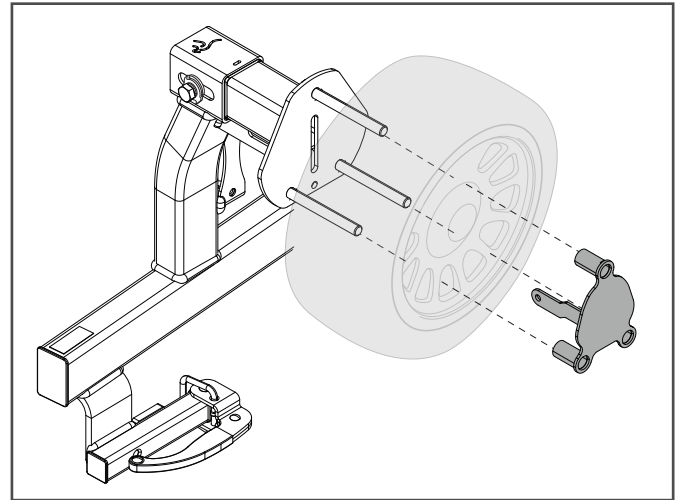
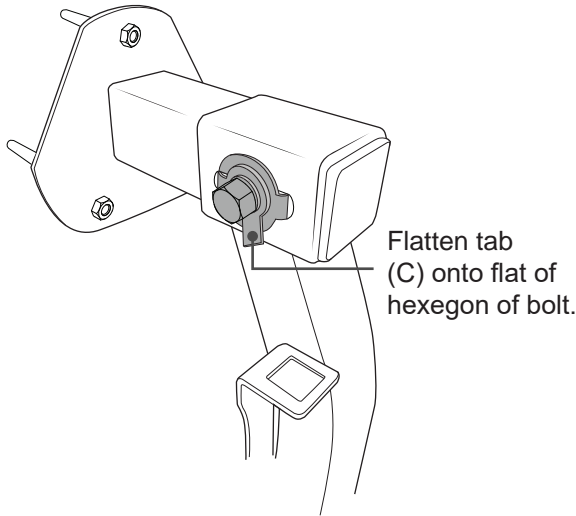
1) Open the wheel carrier and stand behind it.

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.

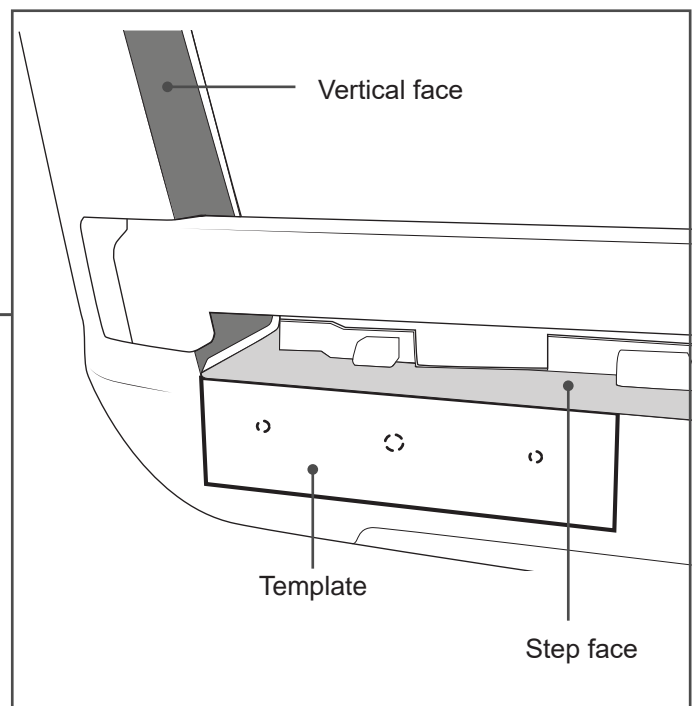
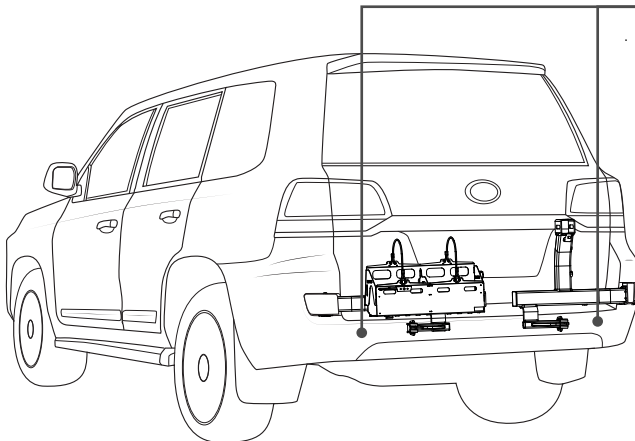


## STEP 32 - Install Tail Lights

Place template on the rear Left Hand Side of the bumper so that the outside edge is in line with the vertical side face of bumper and top edge sits flush with the step, and the word "left" on the template is legible.

Mark the location of the 3 holes to drill.

Flip the template over end to end and repeat for the other side. Remove the bumper from the vehicle and drill the outer holes to 6mm and the middle hole to 10mm.

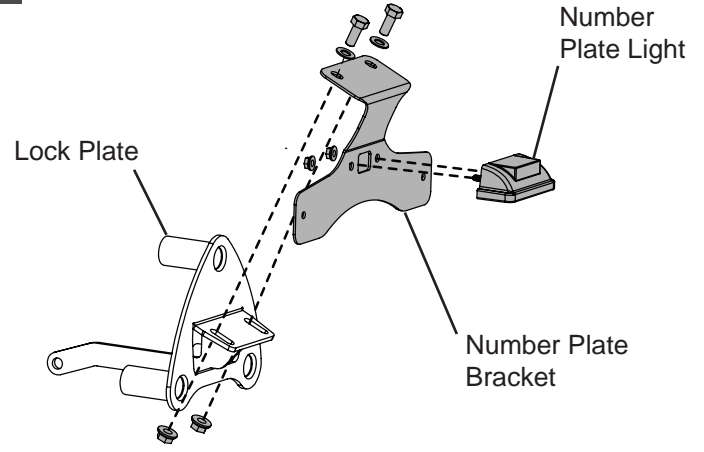
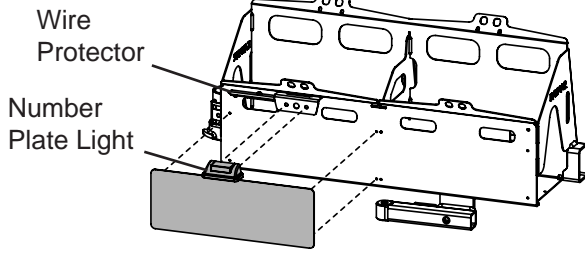




## STEP 33 - Relocate Number Plate

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 Jerry Can or Bracket and route the cable.



## STEP 34 - Install Lights

Fit the LED lights onto the bumper into the holes drilled. Use 5mm screws and nuts supplied.

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 (k6314jc-kit, k6314-kit) refer to separate installation instructions.

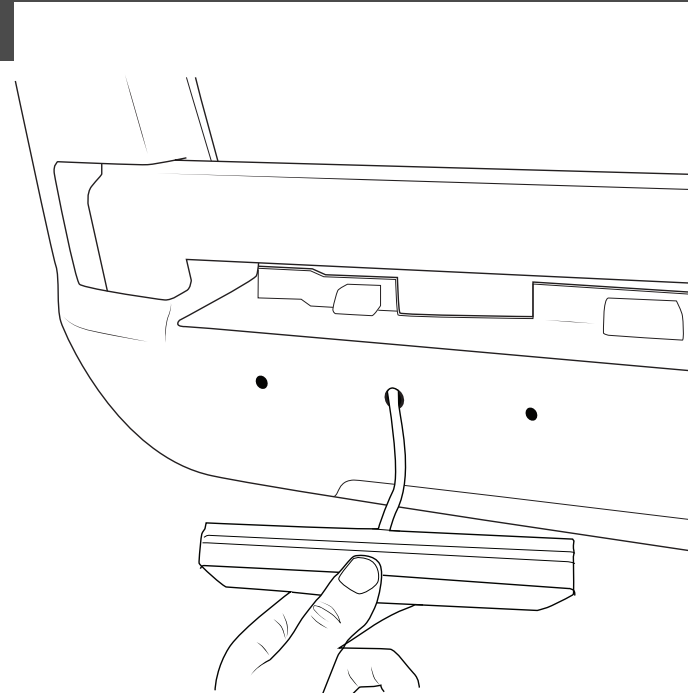
### Wiring Colours:

#### 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 35 - Refit and Final Check

Refit all the fasteners fixing the bumper in position.

Refit the tread plate.

Final Checklist:

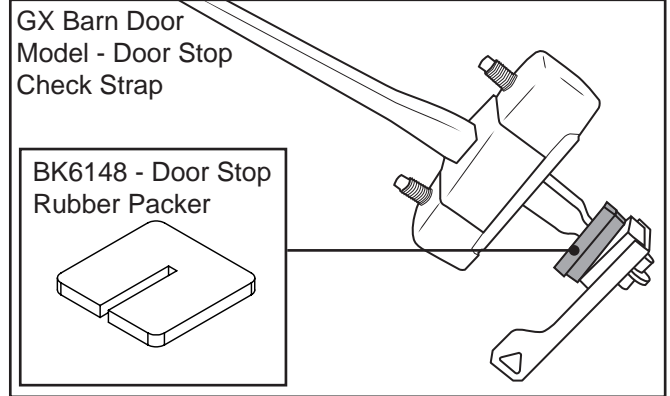
- 1) Lights are working
- 2) All Fasteners have been torqued to spec.
- 4) Camera (if fitted) is functioning normally

## 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 purchasing and 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.

