

Kaymar

Fitting Instructions



Suitable for

Toyota Fortuner

Year **All Models**

Type **Wagon**

Part **Rear Bar**

Applicable to Part Numbers

K3910, KIT4T, KIT4T-R-JCD

See also related fitting instructions for reversing sensors, carriers and jerry can holders

Date published July 8, 2020

IMPORTANT - BEFORE COMMENCING INSTALLATION

Please verify the part number corresponds with the list above. Read through these instructions and check items in the supplied fitting kit matches the attached list.

Please Note:

For vehicles fitted with factory sensors it is important and essential to test and validate the sensors are enabled and operational prior to commencing removal from the OEM bumper and installation into the new rear bar.

Kaymar

Fitting Instructions



Suitable for Toyota Fortuner

Removal of the Bumper

1. Remove the spare wheel from under the vehicle.
2. Remove 8 x screws from top inside edge of bumper. (Fig. 1,2)
Retain for later use



Fig. 1



Fig. 2

3. Remove the plastic rivot from the mud flaps inside the wheel arches and one underneath the mud flaps. Undo four screws and remove the mud flap. Retain for later use.



Fig. 3

Kaymar

Fitting Instructions



4. Undo the screws at the top of the bumper inside the wheel arch. Retain for later use.



Fig. 4

5. Remove the two plastic in-fills from the under the bumper - one either side. These will NOT be reused.



Fig. 5

6. On the drivers side behind the bumper, unclip and unplug the sensor harness for removal of the bumper.



Fig. 6

Kaymar

Fitting Instructions



7. Remove the plastic rivots from the three metal support brackets under the bumper.



Fig. 7

8. Starting at the wheel arch gently pull out the bumper to unclip from the body. Repeat the process on the other side then remove the bumper.



Fig. 8



Fig. 9

9. Remove and discard three metal support brackets. Remove **two** shipping hook.



Fig. 10

Stick supplied foam tape to the top of the bumper support, one in the middle and one on either side.

Kaymar

Fitting Instructions



10. Remove the sensor from the plastic bumper and retain for reuse.

Camera Installation

11. If fitting a carrier or jerry can holder run wiring for the replacement camera now. If not skip to step 19.
12. Unclip and lower the passenger side third row seat. Remove the plastic seat belt anchor cover and undo the seat belt to access the rear quarter trim.



Fig. 11

13. Unclip the plastic trim from the floor by gently pulling it up. Unclip the lower and upper rear quarter trim to access the roof lining.



Fig. 12

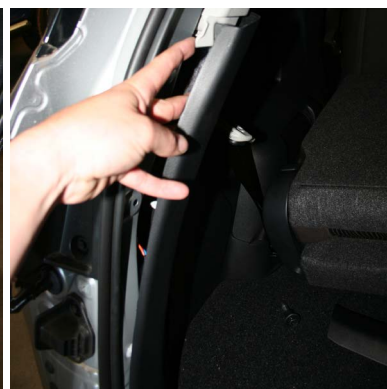


Fig. 13

Kaymar

Fitting Instructions



14. Remove two plastic buttons from the roof lining. Pull down the roof lining and locate the vehicle's camera harness.



Fig. 14

15. Unplug the camera and connect the Kaymar patch harness. Feed the patch harness down through the upper and lower rear quarter trims. Cable tie away from any moving parts.

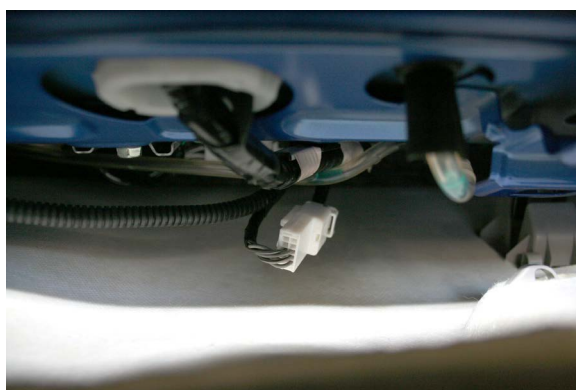


Fig. 15

16. Remove the rubber grommet from under the tail light. Make a small cut in the grommet and feed the harness through the body and grommet. Refit the grommet and fill around the cut with silicon.



Fig. 16

Kaymar

Fitting Instructions



17. Refit all trim and seat belt using the original hardware.
18. Remove the black plastic flare from the bumper by pressing on the four plastic retaining clip on the inside of the bumper.

At this point proceed to fit bar and carriers - the camera will be installed later using specific instructions in section **Camera Installation Continued**

Marking and Cutting the Bumper

19. At the mud flap end of the bumper. Hold a ruler vertically against the bumper and mark down 200mm as per the photos below.

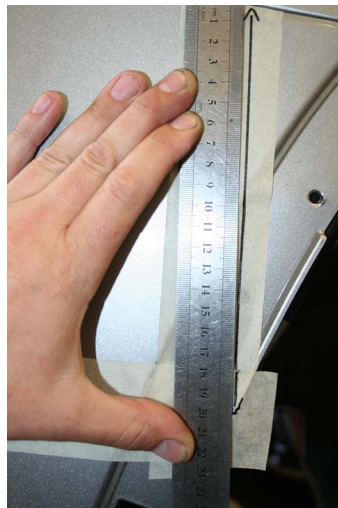


Fig. 17

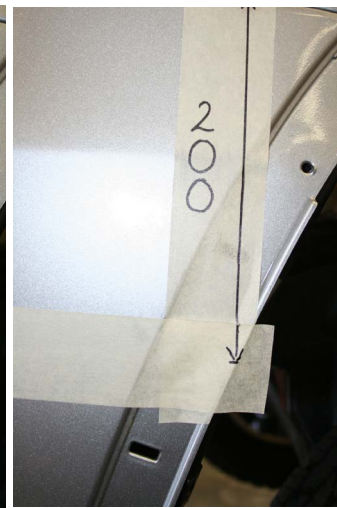


Fig. 18

20. Stick the cardboard template to the corner of the bumper using the natural shape of the bumper as a guide. Line up the top of the template with the top of the radius in the bumper moulding as per the photos below. (Photos show the drivers side)



Fig. 19



Fig. 20

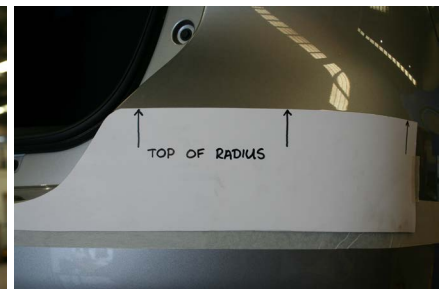


Fig. 21

Kaymar

Fitting Instructions



With the template in position mark full length of the bottom of the template.



Fig. 22

21. With a ruler, mark from the template to the mark at the mud flap done in step 19.



Fig. 23



Fig. 24

22. Mark down 20mm from the top of the step in approximately the centre of the bumper. With a large ruler or similar join all the lines together.

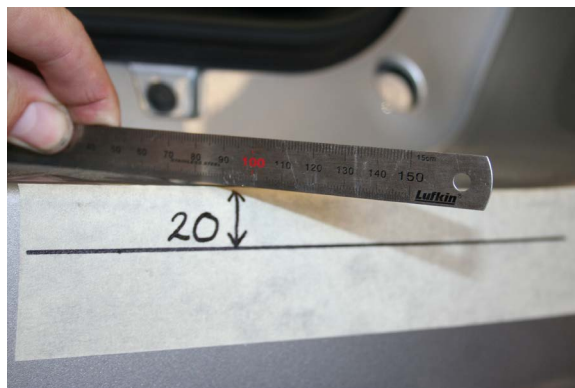


Fig. 25

Kaymar

Fitting Instructions



23. With a grinder and cutting disc, cut along the line exactly, starting at the mud flap end to remove the lower section of the bumper.
24. De-burr the cut edge of the bumper using a stanley knife blade.
25. Refit the black plastic flare removed earlier. Using the photos below trim the bottom of the flare.



Fig. 26

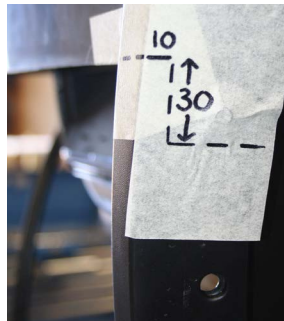


Fig. 27



Fig. 28

26. With the flare cut, run a length of pinch weld the entire length of the bumper cut, starting on the flare.
27. Refit the mud flaps using the original hardware. Hold the gold bracket against the body sill lip and align with the hole in the mud flap. Mark the two holes on the body and drill out to 7mm.



Fig. 29



Fig. 30

Photos show the driver side

Kaymar

Fitting Instructions



28. Using M6 x 20 pan head screws attach the bracket to the body and secure with M6 wizz nuts. Attach the mud flap to the bracket using M6 x 20 pan head screw and wizz nut.

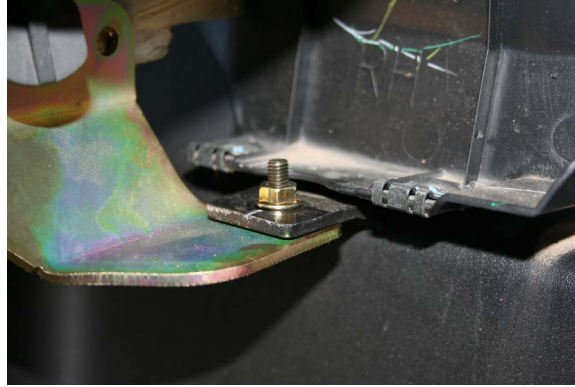


Fig. 31

- 28a. Refit sensors/sensor harness into the Kaymar bar. Cable tie any loose wiring to a secure point.

Bar Fitment

29. With the help of another person lift the Kaymar bar on to the vehicle. Locate the two holes either side of the inside face of the chassis. Fit M12 x 1.25 x 35mm bolt, spring and flat washers into the captive nuts in the chassis.

DO NOT TIGHTEN



Fig. 32

Kaymar

Fitting Instructions



30. Slide a 3mm two hole spacer between the bottom of the chassis and bar. Fit M12 x 1.25 x 35mm bolt, spring and flat washers into the captive nuts in the bottom of the chassis.



Fig. 33



Fig. 34

Tighten bottom bolts first and check there is an even gap of approx 5mm between the bar and pinch weld, then tighten the remaining four bolts.

31. With the foam tape supplied adhere the bumper step to the metal support panel in three locations. One either side and one in the centre.
32. If carriers or jerry can holders are to be fitted see separate instructions.

Kaymar

Fitting Instructions



Camera Installation - Continued

33. If fitting a camera to a wheel carrier use the black bracket supplied. Hold against the bottom of the carrier arm and mark the two holes. Drill out to 9mm. Fit the camera to the bracket then bolt the bracket to the carrier arm using M8 x 20 bolt, spring and flat washers and nut.



Fig. 39

34. Adhere four cable ties mounts to the bottom of the carrier arm and run the harness back toward the carrier hub.
35. Either drill a hole through the bumper and feed the camera cable through a rubber grommet or feed between top of the bar and bumper cut. Then plug in the camera.
36. If fitting the camera to a jerry can holder take the camera out of its holder, hold the bracket against the bottom of the jerry can rail directly above the tow hitch, mark the holes and drill. Then attach the bracket.

Refit the camera into the holder and run the harness as per above description.



Kaymar

Fitting Instructions



BK3910 Bolt Kit for Fortuner

- 8 BOLT M12 X 35 X 1.25 FINE THREAD
- 8 WASHER FLAT M12 X 30 HD
- 8 WASHER SPRING M12
- 6 M6 X 20 ROOF BOLTS
- 6 M6 WIZZ NUTS
- 1 PINCH WELD 14 MM STRIP LENGTH 2800 MM
- 1 TEMPLATE - FORTUNER
- 2 PACKER FOR USE WITH K3910 3MM
- 1 WIRE TRAILER 7 CORE 1400 MM LENGTH
- 3 LENGTHS FOAM TAPE 50MM LONG
- 1 L/H MUD FLAP BRACKET
- 1 R/H MUD FLAP BRACKET



Fortuner_3mm_packer_for_K3910



Fortuner_mud_flap_LHS_RHS