

Kaymar

Fitting Instructions



Suitable for

Toyota 100 IFS

Year

Type

Part **STD Wheel Carrier**

Applicable to Part Numbers

Standard Wheel Carrier Left Side - K1120, K1120A

Date published October 15, 2019

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.

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Suitable for TOYOTA 100 SERIES IFS LEFT HAND SIDE FITMENT ONLY TO STANDARD BAR SUITS ALL TOWBAR TYPES

1. Remove original bumper including the metal support panel. (To release the bumper side panels undo the three mudflap screws on each side and push the bumper sides in toward the car to release the plastic clips)
2. Remove the original left hand chassis bracket ('U' bracket). This is the bracket which supported the metal bumper stiffening panel. Knock out from the inside of the chassis, the two captive nuts which held this bracket on and drill the two holes out to 12mm.
3. If a tow bar is fitted, remove the M14 bolts along the underside of the left hand towbar arm.
4. Fit the gold 'C' channel up to the underside of the left hand towbar arm. The open face of the channel faces to the centre of the vehicle. Use M14 bolts and spring washers only. Tension bolts loosely, do not tighten fully. Fit 8mm Spacer to front hole between c channel & chassis.



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5. Slide the flat plate with the four 10mm nuts welded to it into the chassis (note which way it goes to align the four holes in the side of the chassis) and fit the four 10mm bolts through the gold bracket and the chassis into the nut plate. Tighten these and the M14 bolts. Check the 25mm spacing you must have this.



6. Using the gold catch bolt plate as a template, mark four holes in the chassis cross member to take the catch bolts.



Position the No. 1 plate (LARGE WELDING ON SPACER BAR TO THE TOP) with the depressed centre into the hole in the chassis which is the first hole from the bend in the chassis.

Fit the No. 2 backing plate inside the chassis (welded on spacer bar to the bottom). Screw the two plates together with the countersunk head screw, firmly. MAKE SURE THEY ARE STRAIGHT AND PARALLEL WITH THE CHASSIS.

Spot through the No. 1 plate into the chassis with a 12mm drill to mark the hole centres. Remove the two plates.

Drill the four holes out to 12mm

Re-assemble the two plates making sure they are straight on the chassis and that four 10mm bolts screw easily into the backing plate. Remove the four bolts. Leave everything else in position

7. Fit the wiring loom into the existing wiring underneath the rear of the vehicle. The trailer/ lights wiring loom is a large grey plug located to the right of centre up above the chassis, it has a blanking plug fitted to it. Run the wiring down and through the rear chassis crossmember. Bring the wire ends out through the further most hole in the cross member on each side.

NOTE: If vehicle already has trailer plug wiring connected, disconnect vehicle plugs and plug the Kaymar loom into original sockets.

8. Fit the large black wheel carrier pivot bracket over the corner edge of the bumper to mark the two holes then drill the two holes to 14mm. Leaving 6mm gap between shaft and plastic.

9. Fit lights to bar – See separate fitting instructions.



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10. Cut the left hand end off the metal bumper support.



11. Fit the metal bumper support panel (evenly from side to side) using original nuts onto the original chassis bracket on the right hand side and the two slotted holes in the gold corner bracket on the opposite side.
12. Refit the bumper onto the vehicle making sure the four plastic clips in the top edge of the bumper, clip into the support panel. Feed the light wires through the 8mm holes in the bumper and lights as you go. For vehicles with Toyota factory towbars (See Diagram 7). This does not apply to Toyota towbar part number PZQ6460051
13. Secure the bumper with the original hardware.
14. Fit the shaft holding bracket over the bumper corner as previous and loosely fit the two top 12mm x 35 bolts WITH STAR WASHERS ONLY.
15. Fit the three 12mm x 30 bolts with large flat and spring washers to the three slots underneath.
16. Slide the wheel carrier onto the shaft pivot. Fit the top bearing (MAKING SURE IT IS GREASED FIRST) washer and nut. Tension so as it is firm, NOT TIGHT. FILL THE CAP WITH GREASE. Fit split pin and cap. Swing the carrier into position against the bumper, make sure it is sitting straight and the main bottom rail is parallel with the bottom of the tailgate then tighten all bolts starting with the top two. ****CAREFULLY LOWER THE TAILGATE TO CHECK THAT IT CLEARS THE TOP TWO BOLTS IN THE CORNER****
17. With the carrier in position against the bumper, fit the handle lock catch as shown. It is vital to maintain the 35mm gap for the catch to work correctly.
18. Make sure the catch is sitting flat and straight against the bumper, then mark the centre of the two holes. Drill four 14mm holes through the plastic bumper only. Using a step drill is the neatest way of doing this.



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19. Fit the lock catch with the two 10mm x 50 bolts and washers. The handle must be firm to close but not tight. The tension can be adjusted by levering the hook of the catch base in or out. * Tension is correct when the handle snaps shut.

See auxiliary light fitting instructions – separate sheet

Wire the lights using the following codes:

YELLOW - left hand flasher

GREEN - right hand flasher

BROWN - tail light

RED - stop light

WHITE - earth

Note: You will need to splice an extra wire off brown to allow for no. plate light.

It is advised you use a male/female connection here for easy removal of carrier if necessary.

Run wiring along bottom of carrier arm and up to wheel mount.

Use a male/female connection here for ease of removal of spare wheel if necessary.

20. Check that all lights are working correctly.
21. **Lock tab washers must be knocked down on the top slide section (both sides) of the spare wheel carrier. See Page 5.**
22. If fitting a padlock, ensure you secure it with a cable tie to avoid rubbing or touching of paintwork on the vehicle body.

Number Plate Mounting

Ensure the number plate is mounted tight against the tyre and the wiring for the light is passed through the spare wheel as shown.



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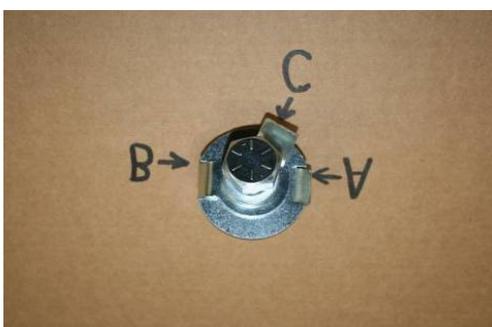
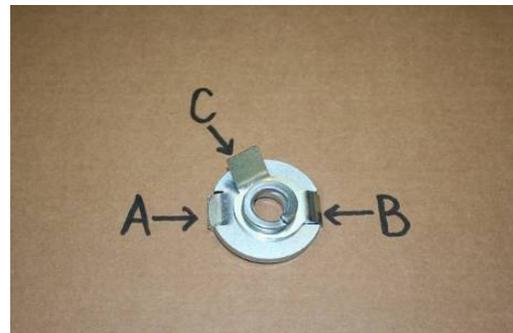
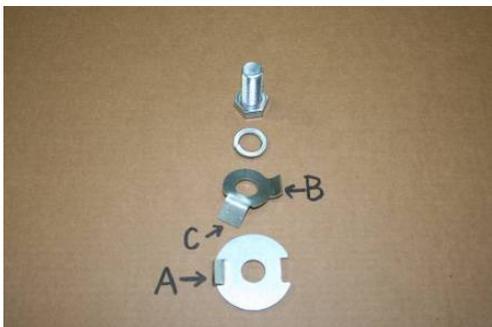
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LOCK TAB WASHER

1. Fit the top slide (wheel holder) into the wheel carrier.
2. Fit spring washer and small lock tab washer onto 16mm bolts.
3. Fit large 5mm thick washer onto bolt with lug (A) facing away from the head of the bolt.
4. Apply a thin film of grease to the bolts.
5. Screw 16mm bolt through the slots in the wheel carrier housing into the top slide. Make sure that the lug (A) fits into the slot first. Make sure you fit both bolts.
6. Fit the wheel and wheel lock plate.
7. Open the wheel carrier and stand behind it. PULL THE TYRE INTO THE CARRIER FRAME SO THAT THE TYRE SITS HARD AGAINST THE FRAME.
8. Tighten the two 16mm bolt to at least 140nm, make sure tab (B) fits into the cut-out in the 5mm washer.
9. Continue turning the bolt unit one flat on the hexagon is aligned with tab (C) of the lock tab washer.
10. 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.

THIS MUST BE DONE



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BK1120 100 SERIES IFS STANDARD CARRIER

QUANTITY DESCRIPTION

4	BOLT M14 x 50 x 1.5
4	BOLT M12 X 35 X 1.75
2	BOLT M12 X 30 X 1.75
2	BOLT M10 X 30 X 1.5
4	BOLT M10 X 50 X 1.5
4	WASHER FLAT M14 X 32 HD
4	WASHER SPRING M14
1	WASHER STAR M12
5	WASHER FLAT M12 X 30 HD
5	WASHER SPRING M12
6	WASHER FLAT M10 X 20
6	WASHER SPRING M10
1	BACKING PLATE 3MM NUTS WELDED ON 10MM X 4 LK208N
2	PACKER FOR USE WITH LK208N 3MM
1	PACKER SINGLE SLOT 8MM 50X50 "N"
1	CATCH SLIM LINE
1	CATCH BACKING PLATE 100 SERIES STD FOR SLIM LINE CATCH
1	DUST CAP FOR CARRIERS
1	BEARING SMALL SILVER FOR STANDARD CARRIER
1	WASHER FLAT - BEARING FOR PIVOT
1	NUT CASTLEATED FOR CARRIER PIVOT
1	SPLIT PIN FOR CARRIER PIVOT
1	REFLECTOR
1	3M PLASTIC STICKER



backing_plate_3mm_nuts_welded_on_10mm_x4



packer_for_use_with_LK208N_3mm



packer_single_slot_8mm_50x50_N



catch_backing_plate_100_std_for_slimeline_catch

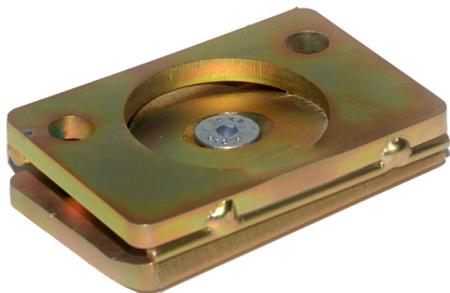
BK1120 100 SERIES IFS STANDARD CARRIER



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backing_plate_3mm_nuts_welded_ on_10mm_x4



catch_backing_plate_100_std_for_slimline_ catch



packer_for_use_with_LK208N_3mm