



OCAM INDUSTRIES

INSTRUCTION SHEET OCAM-2016-C

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INSTALLATION INSTRUCTIONS FOR THE INSTALLATION OF AN OCAM UNIVERSAL GUTTER MOUNTED ROOF RACK

We recommend the instructions contained here are read in their entirety and understood prior to commencing the installation.

IMPORTANT NOTE:

These instructions are based on our full-length (2.2m) gutter-mounted roof rack, which uses 8 mounting feet. The parts list shown throughout these instructions also relates to this 8-foot configuration.

These instructions apply to all OCAM tubular gutter-mounted roof racks regardless of size. The assembly process is the same across all models—the only difference is the number of mounting feet and the corresponding hardware supplied.

For example

1.35m roof rack 4 mounting feet

1.8m roof rack 6 mounting feet

2.2m roof rack 8 mounting feet

Please use these instructions for all OCAM gutter-mounted tubular roof racks, referring only to the number of mounting feet and components supplied with your particular model.

Instructions for assembling and installing OCAM gutter mounted Universal Roof Rack.

TOOLS REQUIRED

1 X 13mm Ring O/E or Ratchet Spanner.
1 x 6mm long series Allen Key.

Optional tools; Box Cutter or similar for removing wrapping.
Tape Measure

LIST OF CONTENTS

This content list is representative of a rack with 8 mounting brackets and is indicative of all OCAM universal roof racks. The quantity of the contents will vary if the supplied rack is longer and is fitted with more mounting brackets. The quantity of the contents will also vary if there are less mounting brackets.

1. Roof Rack Frame x 1.



2. Mounting Bracket x 8.



3. Foot Plate x 8.



4. Cover Plate x 8.



5. Long Insulating Strip x 8.



6. Short Insulating Strip x 8.



7. 16 - M8 x 15mm Allen Head Cap Screws.

8. 32 - M8 x 25mm Allen Head Cap Screws.

9. 8 - M8 x 30mm Allen Head Cap Screws.

10. 32 - M8 Durlock Flanged Nuts.

11. 56 - M8 Flat Washers.

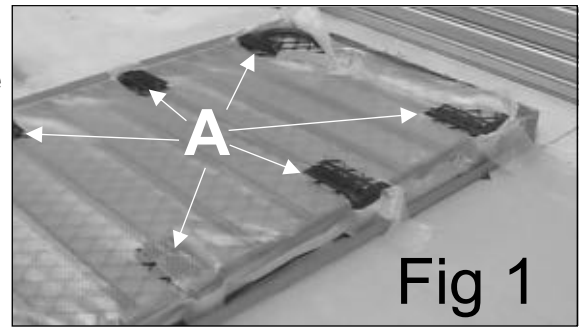
12. 56 - M8 Square Section Spring Washers.



1. Unpack the roof rack and remove the installation fittings.

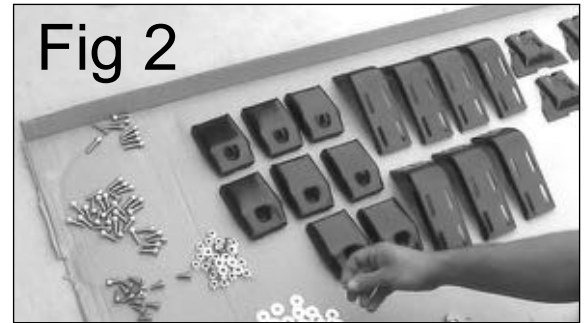
Using the packaging carton as a abrasion barrier, place the roof rack on a flat surface in the upside down position and remove the foam wrapping from around the roof rack mounting plates.

Refer (A) figure 1.



2. Unpack the installation fittings and separate each item into their respective lots.

Refer figure 2.



NOTE: There are three different lengths of M8 cap screws in the kit. Make sure to use the correct cap screw for it's intended purpose. As listed below.

M8 x 15mm for attaching the foot plate.

M8 x 25mm for attaching the mounting bracket.

M8 x 30mm for attaching the cover plate.

3. Attaching the foot plate to the mounting bracket.

Fit a spring washer to a 15mm cap screw and then fit a flat washer. Bolt a foot plate to a mounting bracket as shown in figure 3. Make sure the foot plate is attached to the mounting bracket as shown in figure 4.

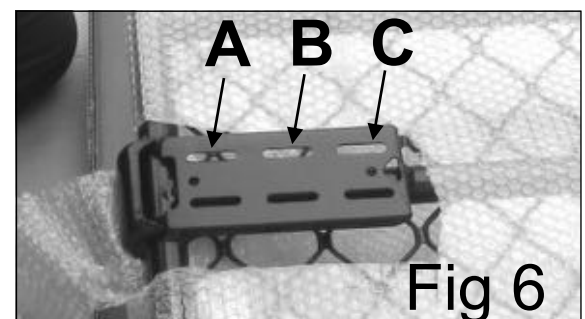
Insert another 15mm cap screw, spring washer and flat washer as shown in figure 5. Finger tighten the caps screws so that the foot plate can be moved with finger pressure. Do not tighten the cap screws at this time. Repeat this step for all of the mounting brackets.



4. Attaching the mounting bracket to the mounting plate.

The mounting plate of the roof rack features six (6) mounting slots. Four (4) of these slots will be used to attach the mounting bracket for your application. When fitting the rack to smaller vehicles, the mounting slots marked as B and C in figure 6 may be used. Larger vehicles will use the mounting slots that are marked as A and B in figure 6.

If you are not sure, measure across the vehicle from one gutter to the other then fit two mounting brackets as per instructions in section 5 on page 4, one on each side adjacent to each other. Then measure the distance from the end of one mounting bracket across to the end of the second bracket.



Adjust the mounting location to suit the installation.

5. Installing the mounting brackets. Fit spring washers and then flat washers to four (4) M8 x 25mm cap screws. Place a mounting bracket on the roof rack mounting plate with the four (4) slots aligned with the mounting plate slots A and B as shown in figure 7.

Pass a cap screw through the mounting plate from underneath the roof rack as shown in figure 8.

Fasten the cap screw in place with a M8 flanged nut. Repeat the process and install all four cap screws as shown in figure 9.

Only finger tighten the nuts enough to attach the mounting bracket to the plate, but loose enough so the bracket will slide on the plate in either direction as shown in figure 9.

Using the same process, attach all the mounting brackets to the roof rack.

Fit a section of the long insulation strip to the edge of each mounting bracket as shown in figure 10. Make sure that the strip is placed firmly on the bracket.

6. Fitting the roof rack to the vehicle. Remove the wrapping from the roof rack and with the aid of another person turn the roof rack over so as the top of the rack is upmost.

Lift the roof rack onto the vehicle by approaching the vehicle from the rear. Fit the roof rack with the wind deflector plate towards the front of the vehicle. Refer figure 11.

When the roof rack is in the desired position, hold the roof rack clear of the vehicle and slide each mounting bracket in or outwards so as the edge of the mounting bracket sits neatly in the vehicle gutter. Refer figure 12.

Check that the roof rack is centred on the vehicle by standing behind and in front of the vehicle and visually aligning the roof rack with the centre of the vehicle. After any adjustments, make sure that the insulating strips are correctly in place on the mounting brackets.



Fig 7



Fig 8

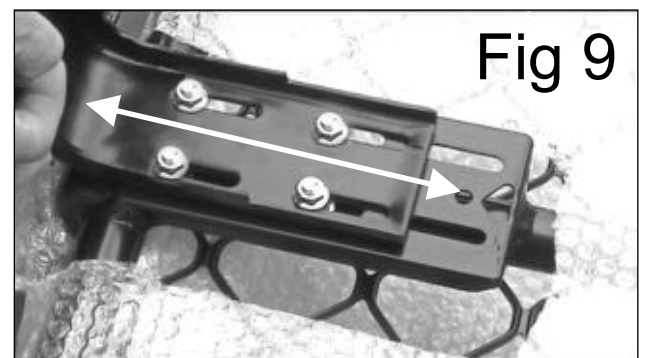


Fig 9

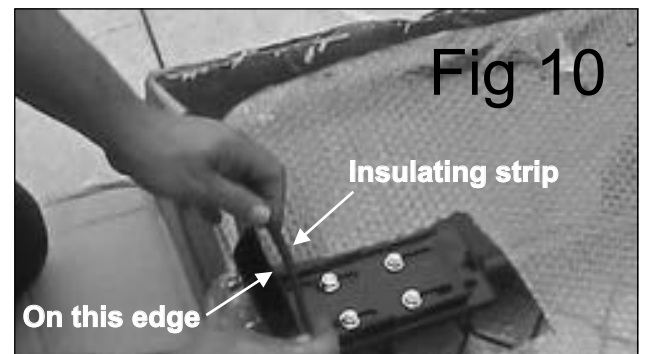


Fig 10



Fig 11



Fig 12

7. Tightening the roof mounts. When satisfied with the position of the roof rack tighten the cap screws on the foot plate while holding the mounting bracket firmly down on the vehicle roof gutter by grasping the roof rack and pulling downwards. Make sure that the cap screws are tightened firmly. Repeat the process on all foot plates.

Refer figure 13.



Place the 13mm spanner on the first mounting bracket nut under the roof rack and insert the Allen key from the top as per figure 14.

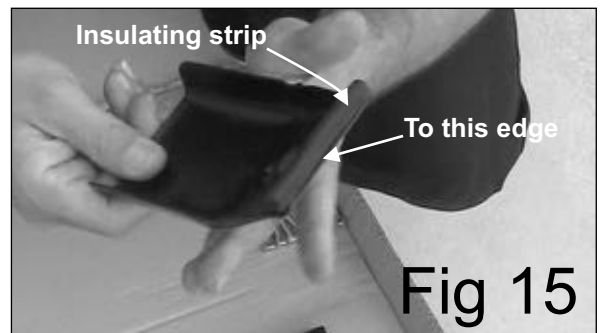
Tighten the mounting bracket cap screw with the Allen key. (Durlock flanged nuts should not be rotated if possible during the final tightening). Repeat this process until all 32 mounting bracket cap screws are tight. Visually check that all mounting brackets are fully sitting down in the vehicle gutter.



8. Fitting cover plate. Fit the short insulating strip to the cover plates as shown in figures 15 and 16. Fit the spring washers and then the flat washers to the M8 x 30mm cap screws.

Fit the lower edge (with insulator strip) of the cover plate under the vehicle gutter and check that the mounting hole in the cover plate aligns with the bolt hole in the foot plate.

Refer figure 17.

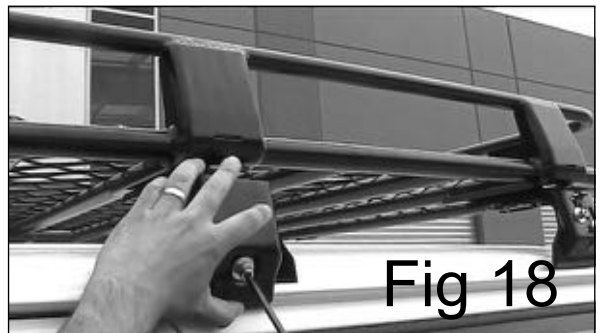


Insert the cap screw through the cover plate into the threaded hole in the foot plate and finger tighten. Repeat the process with the remaining cover plates and cap screws.

Check that the roof rack mounting bracket is fitted correctly in the vehicle gutter and tighten all cap screws with the Allen key as per figure 18.

The cap screws should be tightened firmly.

NOTE: Using excessive force when tightening may cause the vehicle roof gutter to distort.



It is good practice to periodically check the cover plate cap screws after use.