



FITTING INSTRUCTIONS FOR
Mercedes Benz Vito Commercial Van
Released April-04 Onwards
639 Series
ANCHOR POINT EXTENDED Roof Rack
PART NUMBER: **APEX116-3**
FITTING TIME: EST. 30 MINUTES

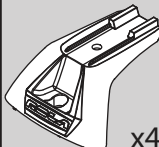
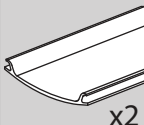
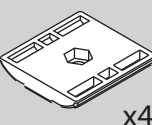


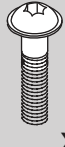
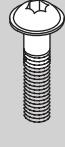


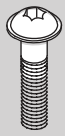
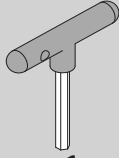
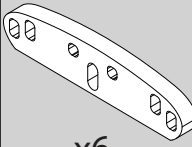
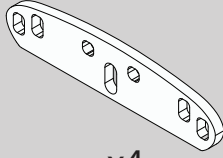
ROOF-RACK LOADING CAPACITY: 30kgs-1 Bar, 60kgs-2 Bar, 90kgs-3- Bar

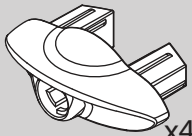
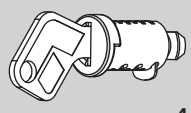
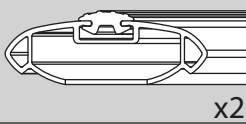
ISSUE: B

ISSUE RELEASE DATE: 22/01/2015


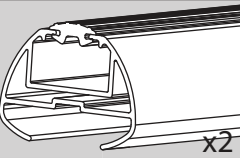
TOTAL NUMBER OF PAGES INCLUDING COVERSHEET: 5

2. KIT DRAWING AND CONTENTS

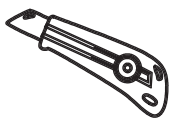
COMMON						
 x4	 x2	 x4	 x4	 x4	 x2	 x2
END SUPPORT (27-0752)	UNDER-COVER STRIP	SLUG NUT (27-0116)	FLAT WASHER (22-0186)	SPRING WASHER (22-0162)	M6 X 30 STAR BOLT (22-0352)	M6 X 40 STAR HEAD BOLT (22-0353)
 x4	 x4	 x2	 x1	 x6	 x4	
M8 HEX NUT (22-0139)	M8 x 20 HEX BOLT (22-0496)	M6 x 45 STAR BOLT (22-0354)	TT-27 ASSEMBLY KEY (22-0811)	BASE PLATE - 10mm (22-0835-10)	BASE PLATE - 5mm (22-0835)	

APEX		
 x4	 x4	 x2
SPORTS CROSS-BAR END CAP (27-0782)	ROLA LOCK & KEY (22-0600)	SPORTS (RE GLOBAL) CROSS-BAR (10-0020 1500B)

OR

CAP	
 x4	 x2
CROSS-BAR END CAP (27-0345)	HEAVY DUTY CROSS-BAR (10-0011 - 1500mm)

3. TOOLS AND MATERIALS REQUIRED



Cutting Knife - Use to open Kits, and trim Buffer Strip to size.



Measuring Rule - Use to check dimensions and distances of cross-bars.



Cleaning/protective Cloth - Use to wipe down vehicle, and use to protect vehicle paint.



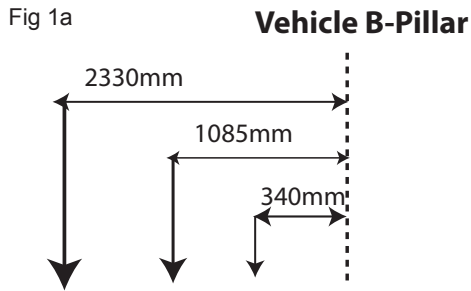
Marking Pencil - Use to mark buffer strip.



13mm Spanner - Use to assemble Cross Bars.

4. INSTALLATION STEPS

Prior to Assembly, check that your Roof Rack Box contains all the parts as listed above. Ensure the vehicle roof is clean and dry. Use Knife to cut through the packaging polybags.



STEP 1

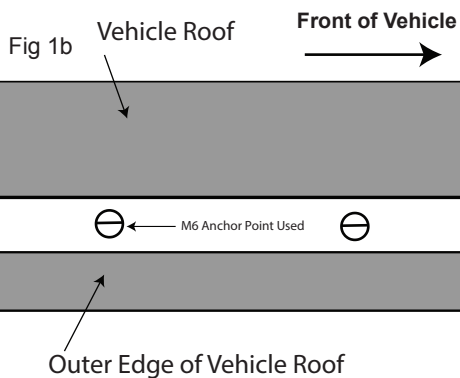
On the vehicle roof you will find 16 Anchor Point Covers paired in four locations indicated by the arrows in Fig 1a. This fitment will use three out of the four available for a three bar system. Carefully remove these covers by using a flat head screwdriver shown in (Fig 1b) **Note: Only remove the rearward facing anchor point covers.**



For a dual-Bar fitment, only remove the **front and rear** covers.

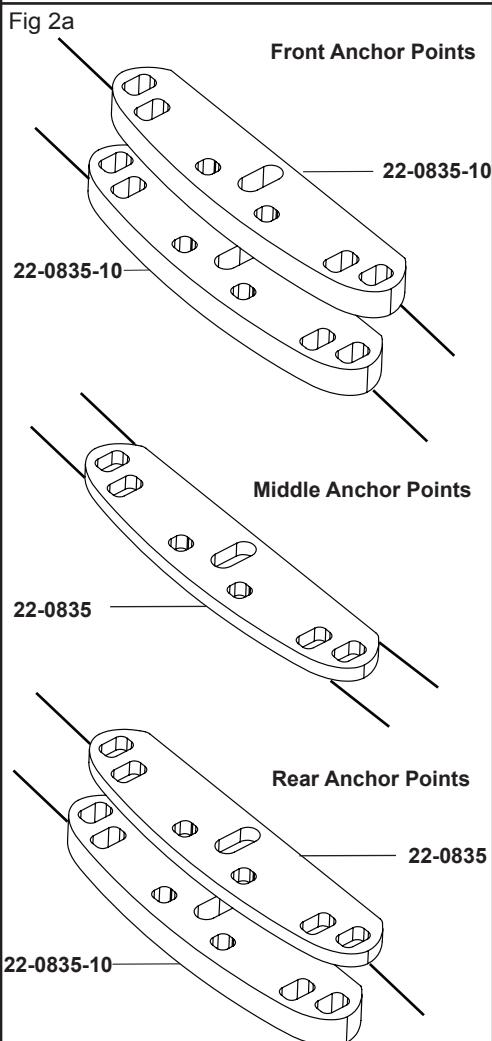


Store the Anchor Point Covers and plugs safely while the Roof Racks are in use.



STEP 2

Each anchor point has two M6 threaded bolt holes. It is advisable to screw the Special Bolts into the Anchor Points at this time to clean the threads.



STEP 3

Using the base plates provided place their respective amounts on each rearward anchor point as seen in Fig 2a. Take note of the orientation of each base plate, as the flat side faces inwards to the vehicles roof.



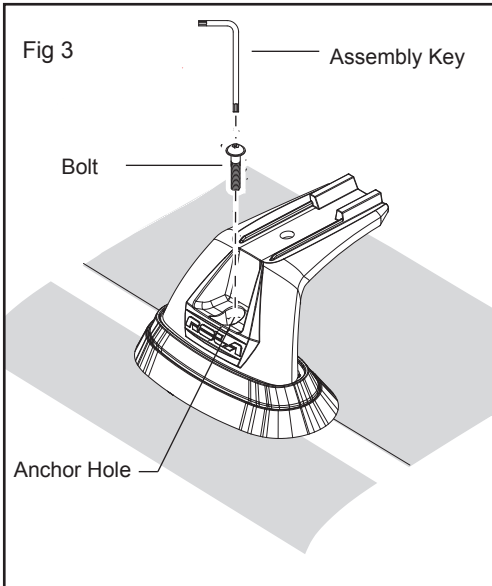
The **front** anchor point uses **two 10mm base plates**.



The **middle** anchor point uses **one 5mm base plate**.



The **rear** anchor point uses **one 10mm base plate and one 5mm base plate**.

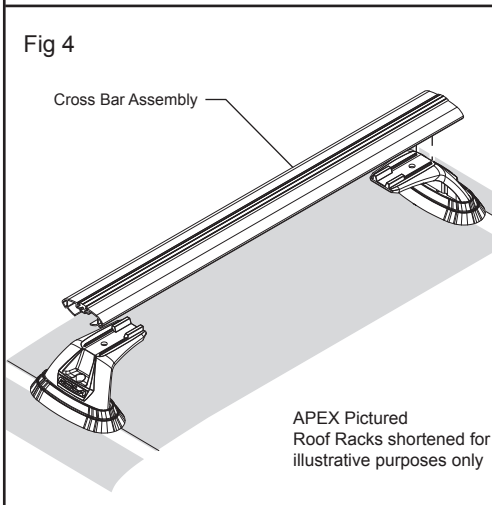
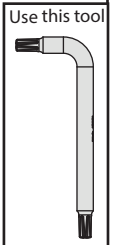


STEP 4

Place an end support onto the base plate from STEP 2, and loosely secure it down with a bolt by inserting the bolt into the anchor point, and turning approximately 2-3 turns with the security key (Refer to Fig. 3). Do not tighten yet. Repeat for the opposite side.

Use the following bolt sizes for each anchor point:

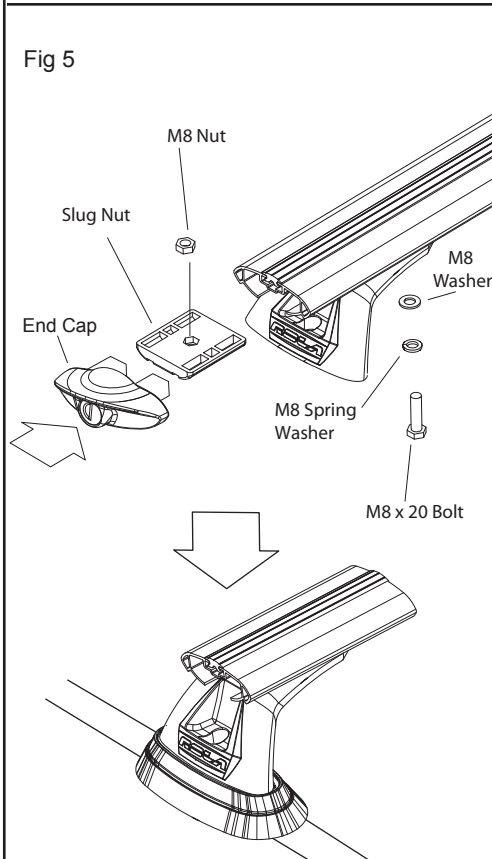
Front Anchor Point: M6x40 - 22-0353
 Middle Anchor Point: M6x30 - 22-0352
 Rear Anchor Point: M6x45 - 22-0354



STEP 5

Place the crossbar onto the end supports ensuring that the end supports are located into the cutouts on the underside of the crossbar. (Fig. 4)

Check that the cross bar has equally distanced overhang on either side from the end support.



STEP 6

Insert the M8 nut into the cavity on the Commercial Slug. (Fig. 5)

Insert the Commercial Slug into the cross tube, and align it so that the M8 nut in the Commercial Slug and the hole at the bottom of the end support line up.

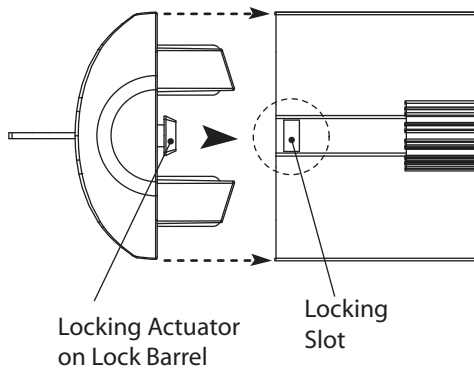
Secure the cross bar to the end support by screwing the M8x20mm bolt through the hole in the end support and up into the nut that is located in the cavity of the Commercial Slug nut.

Using a 13mm Spanner, fully tighten the 20mm bolt on the underside of the end support.

Tighten M8 bolts to 6-7 Nm
 Tighten M6 bolts to 5-6 Nm

Repeat Step 6-7 for remaining crossbar.
 Refer to fitting instruction 424 for insertion of the under-cover strip.

Fig 8

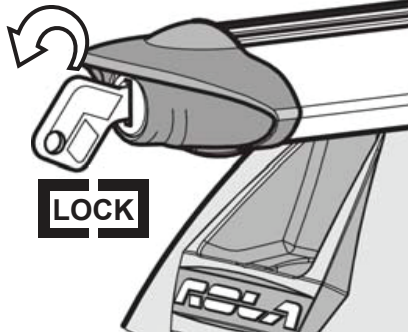


STEP 7 *Note: Only APEX has locking capability*

Pull back the buffer strip to allow access to the end of the cross-bar.
 Insert Endcap into the Cross-bar by locating the two 'feet' of the Endcap into the void inside the cross-bar. (Fig 8)

Push through until End-cap edge comes to rest against the edge of the cross-bar. This is important as the Locking Actuator inside the Endcap has to locate within the Locking slot on the end of the cross-bar.

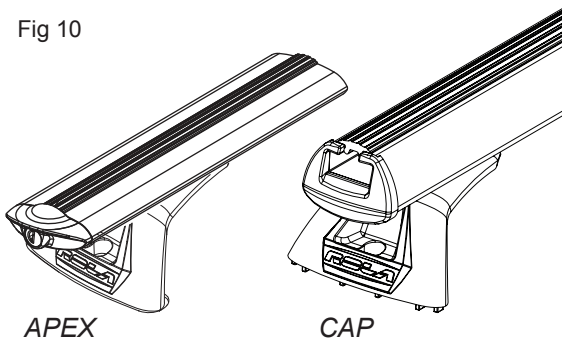
Fig 9



STEP 8

Pull back the buffer strip to allow access to the end of the cross-bar.

Fig 10



STEP 9

You are now ready to mount your accessories, eg. Bike Carrier, Kayak carrier, etc. utilising the "Global Channel" if applicable. (Fig. 9).

Place the accessory onto the buffer strip in the location where it will be mounted in relation to your cross-bars. Using a marking and measuring tool, ie. pencil/tape measure - make your mark onto the rubber buffer strips.

Next, completely remove the buffer strip from its channel within the cross-bars and cut out the portion using heavy duty scissors/shears.

NOTE: DO NOT dispose of this rubber strip but store it in a secure place to be re-mounted once the accessory has been removed from the rack. This will help reduce wind noise during travel.



USAGE INSTRUCTIONS

It is essential for the proper assembly, operation and use of the Roof-rack that the instructions and safety precautions supplied are strictly observed. The Maximum permissible load for your Roof Bar is the lower of the maximum load capacity specified in you vehicle operation manual, or specified as applying to the Roof-rack. Do not exceed the maximum specified Load capacity.

Maximum Permissible Load = Weight of the Roof-rack + Weight of Accessories + Weight of Load(Cargo).

When fitting the Roof-rack and transporting a load, ensure the vehicle's functions are not impaired (eg. sunroof, aerials, windscreen wipers, mirrors). Rear doors on Hatch - and wagon-type vehicles should be inspected for adequate clearance for full opening operation of the boot/tailgate.

Stop and check all screw connections, bolts and retaining straps after a short distance of travel. Repeat these checks at regular intervals.

WARNINGS

Remember that the fitting of a Roof-rack and the transport of a load increases the overall height of the carrying vehicle.

Where the roof-rack is to be used in off-road conditions, a safety weight reduction of 1.5 should be observed from the total carrying capacity (eg. 60kg becomes 40kg).

Cequent will not be liable to the purchaser of any other person for any consequential, direct or indirect loss, damage or costs incurred or suffered by the purchaser or any other person including but not limited to damage to persons or property, loss of turnover, loss of profits, loss of business or goodwill arising from or in relation to the assembly and use of the Roof-rack, or the non-observance of the fitting and care instructions.