

Van-Rack Fitting Guide

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Tip!
View current
Fitting Guide on
your electronic
device



fb/gripsport.real

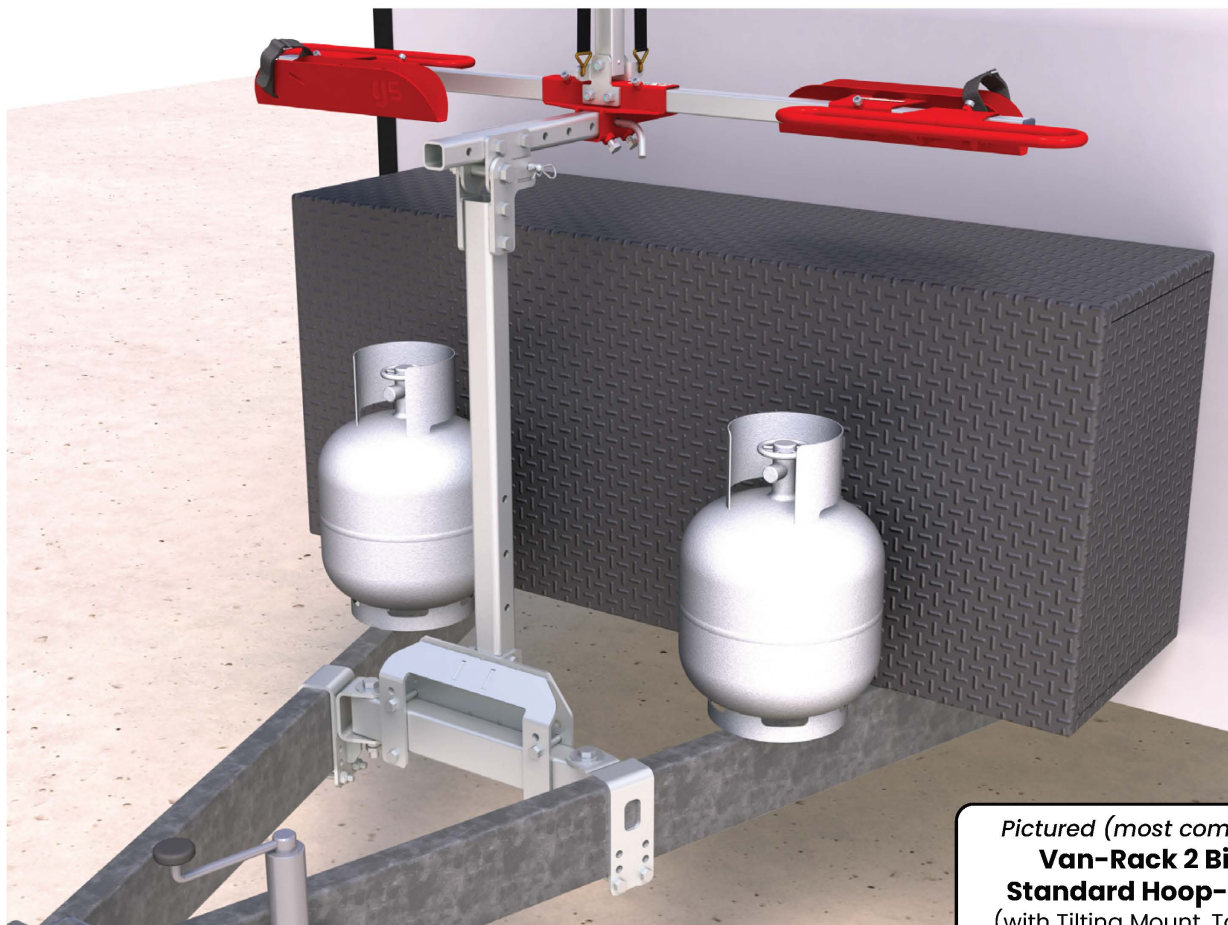


@gripsportbikeracks



bit.ly/GripSportVideos

Use this guide to see how to fit a
GripSport Van-Rack & Bolt-On Mount Kit
to your caravan.



Pictured (most common):
**Van-Rack 2 Bike
Standard Hoop-Taco**
(with Tilting Mount, Tall Post,
Bolt-on Mount & UCM660
Universal Cross Member)



Danger of accident and injury if these
instructions are not followed. If unsure,
contact GripSport or get a qualified
installer to assist.

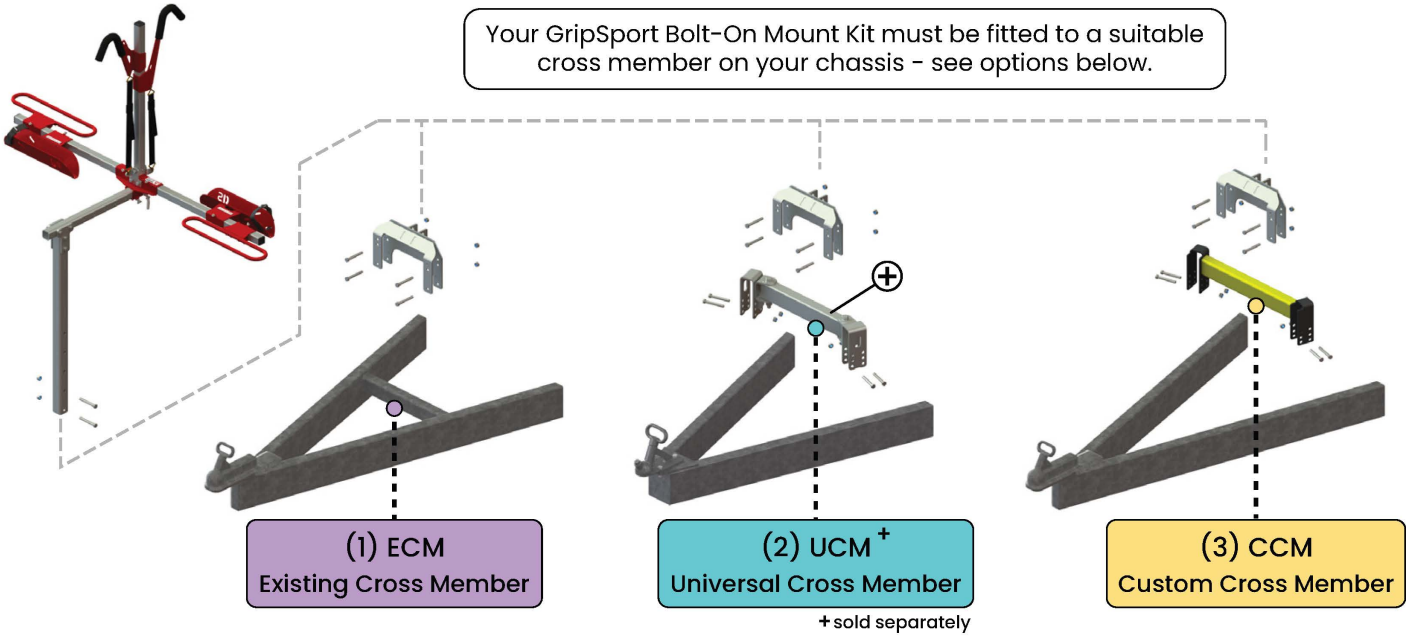
www.gripsport.com.au/bike-rack-dealers-for-caravans



Bike Racks. Built Tough.

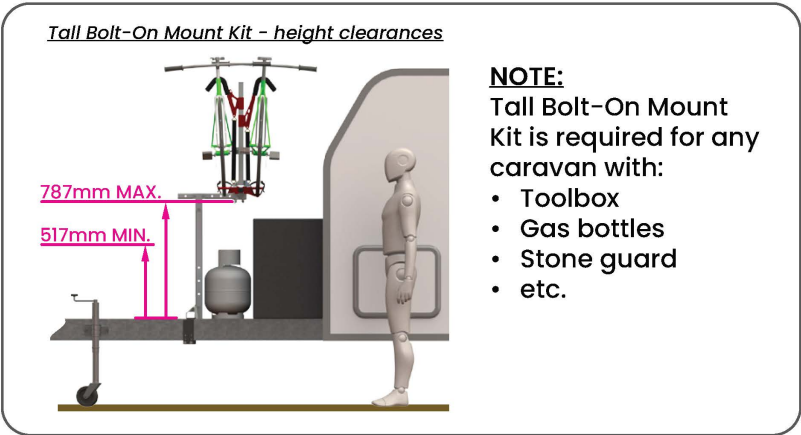
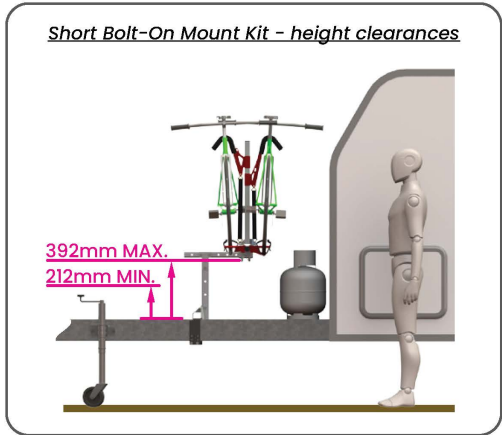
Fitting Methods - Overview

Your GripSport Bolt-On Mount Kit must be fitted to a suitable cross member on your chassis – see options below.



Fitting Method			Any Position?	Weld-free Install?	At-home DIY Install?	GripSport Warranty?
1	ECM	Existing Cross Member	✗	✓	✓	✓
2	UCM	Universal Cross Member	✓	✓	✓	✓
3	CCM	Custom Cross Member	✓	✗	✗	✓
4	CF	Custom Fabrication	✓	✗	✗	* ✓ / ✗
5	RM	Rear Mounted (2bike max)	✗	✓	✓	✗

* if fabricated by a registered GS dealer, or relevant qualified tradesperson.

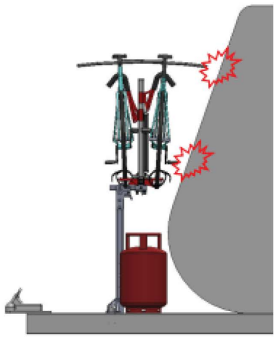


NOTE:
Tall Bolt-On Mount Kit is required for any caravan with:

- Toolbox
- Gas bottles
- Stone guard
- etc.

CONSIDER:

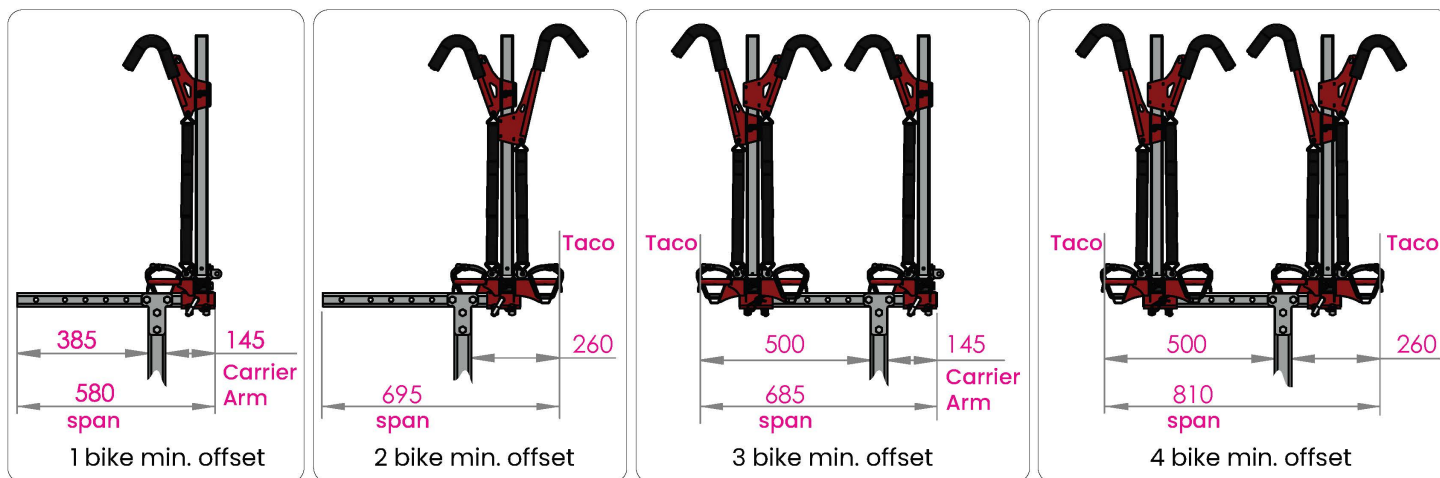
- The amount of space/footprint your bike rack takes up on the draw bar so as not to impact your turning circle. See page 3.
- The rack is height and depth adjustable to aid in these clearances and fitment. Footprints are provided in this fitting guide.
- How close the rack and bikes will sit to the front of your caravan. Allow approx. 100mm of clearance.
- The weight being added to your tow ball – consider having your setup professionally weighed for safety and insurance purposes. The weight of each rack is available on our website.



Positioning your installation

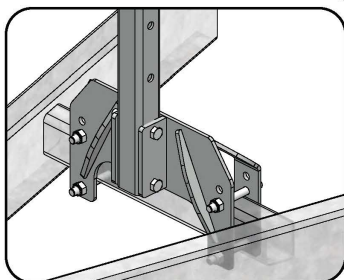
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The new cross member position should be far enough from the front of the van, and rear of the tow vehicle, so the rack and bikes don't impact whilst travelling/turning or jackknife when reversing. The images below show how much adjustment is available forwards/backwards over the drawbar, from the cross member position at the base (approx. only)

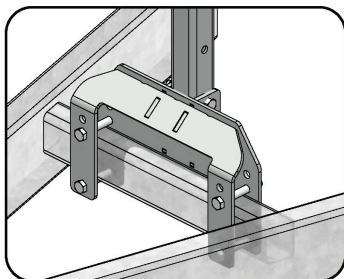


Tip!

Bolt-on Mount may be installed with Post on front or rear side of a suitable cross member.



This could help with positioning and clearance.



Indicative Bike Sizing

This graphic shows 700mm wide handlebars for reference. Check your own bikes for accurate sizing.

Some typical handlebars:
 ~ 450/500mm road bike
 ~ 600+mm hybrid/touring bike
 ~ 700mm XC mtb, BMX
 ~ 800mm downhill mtb



QR Quick Release Post

QR Quick Release Bolt-On Mount Kit allows for quick separation of the Carrier Mount, Arm & Frameset. This is usually only beneficial for those customers with Expanda style & Forward fold wall/bed/campers, where the Carrier would otherwise clash when pulling out wall/bed at camp. Fitting Methods same as previous. Short Post shown below. Tall Post also available.



Fitting Method 1 - ECM Existing Cross Member

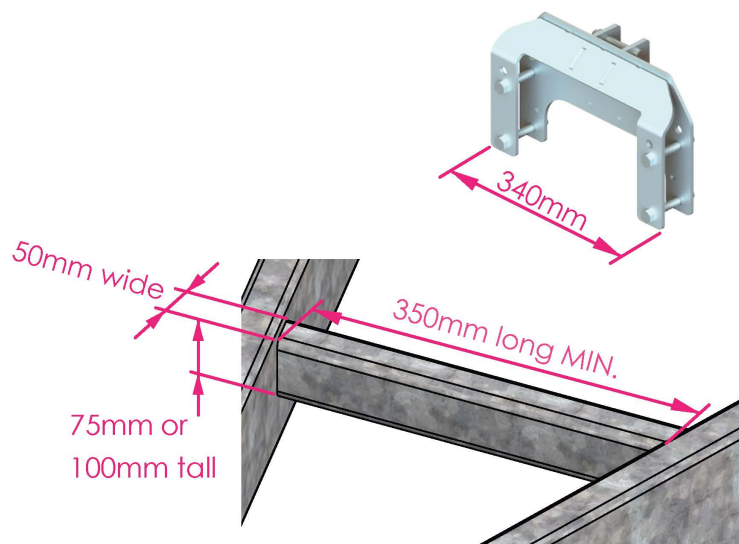
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Overview:

If your caravan has a suitable cross member in a suitable position, then the Bolt-On Mount Kit may fit straight onto this. Measure your cross member to check these dimensions below.

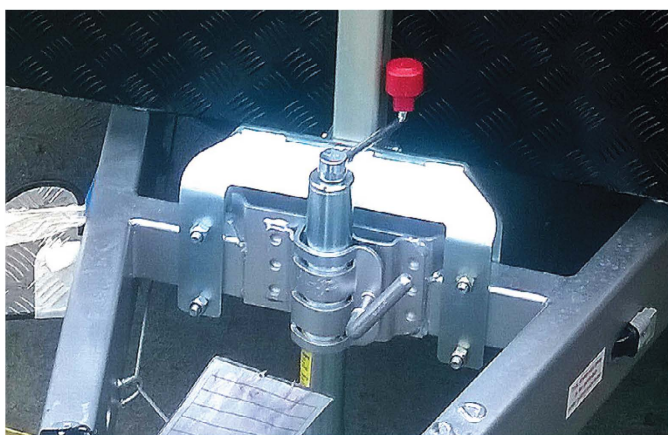
Suitable cross member dimensions:

Width: 50mm wide
Height: 75mm or 100mm tall
Length: 350mm or longer



Jockey Wheel

If your cross member already has a jockey wheel or similar fitted, it may not be compatible. The Bolt-On Mount Kit can be mounted frontside or backside as shown on page 3. This can help to avoid interference with equipment such as jockey wheel mountings, gas bottles, etc.



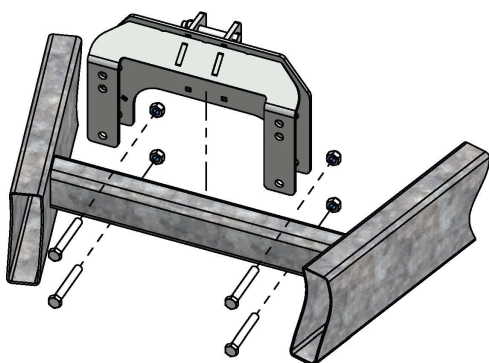
Tip!

For top-winding jockey wheels that interfere with the vertical Post on your GripSport Rack, consider switching to a side-winding or bottle jack style jockey wheel.



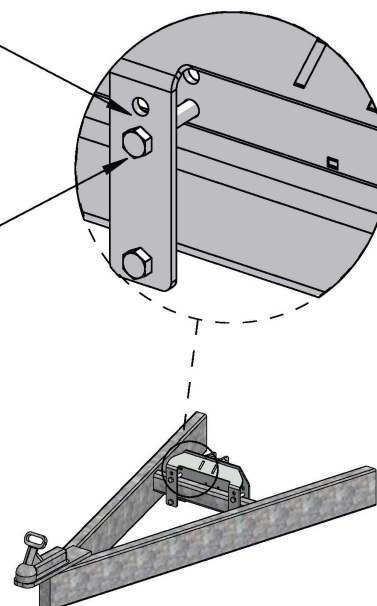
Fitting Instructions:

Fit Bolt-on Mount over Cross Member.
Fix with supplied M12 Bolts and Nuts.



100mm x 50mm
Cross Member
holes position

75mm x 50mm
Cross Member
holes position



IMPORTANT!!
Bolt-on Mount top bolts must
sit snug on top of Cross Member!!

Use corresponding bolt hole positions as shown above.

Installed Bolt-on Mount.

Fitting Method 2 - UCM Universal Cross Member⁺

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Overview:

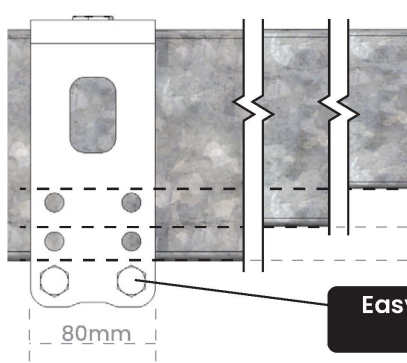
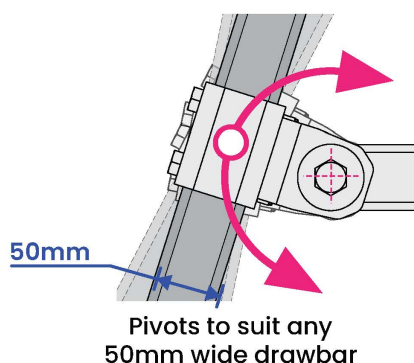
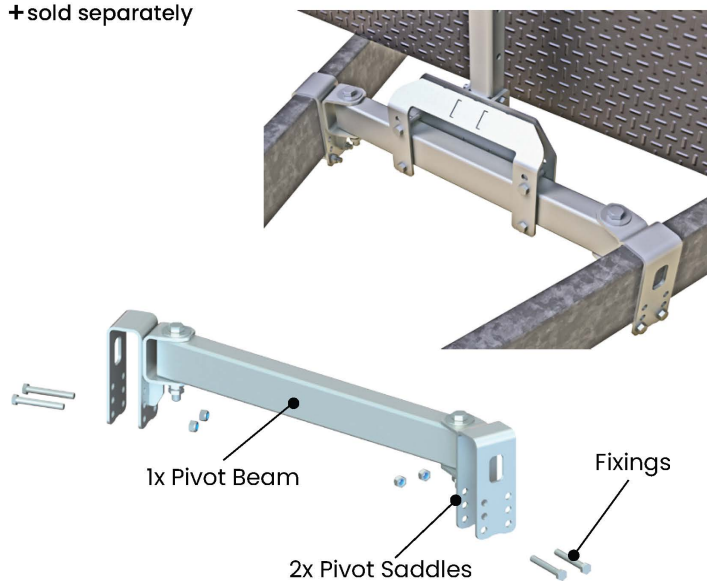
An adaptable DIY solution:

- Pivoting Saddles & Beam assembly with fixings, available in various lengths.
- Suitable for chassis rails sized 50mm wide by 100mm, 125mm, or 150mm tall.
- No welding is required.

Benefits:

- At-home, versatile fitment!
- Bolt-on directly over drawbar
- Low profile, sleek fitting, without protrusions
- Pivots to suit any drawbar angle
- Utilises conventional *Bolt-on Mount & Post*
- No specialist trades or tools required

+ sold separately



Saddle suits drawbar height:

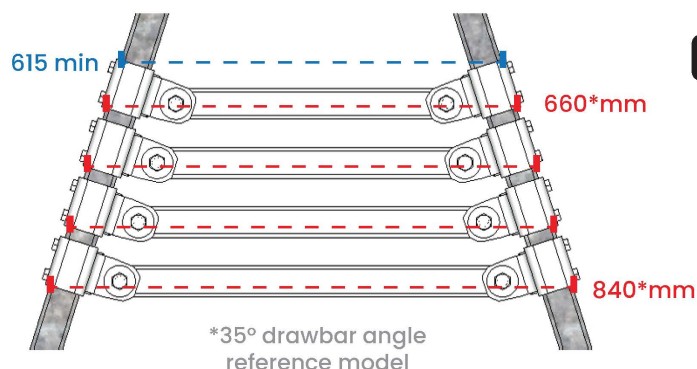
- 50mm x 100, 125, 150mm
- 2in x 4in, 5in, 6in RHS

- 100mm / 4inch
- 125mm / 5inch
- 150mm / 6inch

Easy Bolt-on attachment to caravan (no welding required)

Fitting Instructions:

1. Determine the best position for the cross member on your drawbar, ensuring clearance between the van, tow vehicle, rack, and bikes.
2. Measure the distance between chassis rails and order the matching cross member length.
3. Account for accessories like stone guards, taps, or gas and brake lines that may require adjustment or relocation for installation.



Just choose your length:

UCM660

UCM720

UCM780

UCM840

NOTE: UCM measurement is taken from outside to outside of the chassis rails, at the largest point where you want the cross member installed.

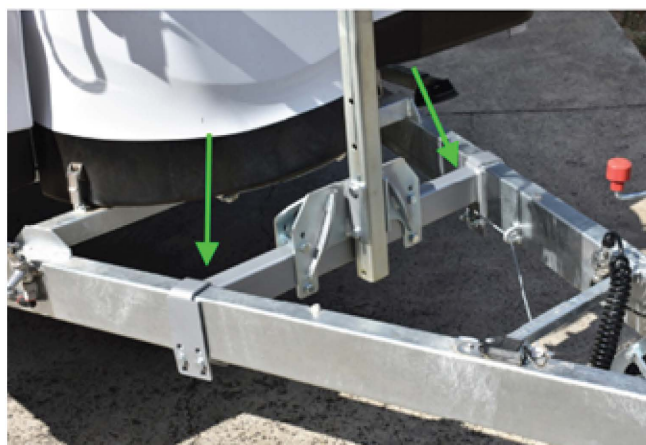
Fitting Method 3 - CCM Custom Cross Member

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Overview:

If you did not order a UCM, Your Bolt-On Mount Kit will include a pair of "Saddles" (U-shaped brackets, pictured below). These can be used to create a new cross member, which can be bolted over the drawbar, as pictured.

This method lets you add a new cross member without welding directly to the drawbar and without modifying the chassis, preserving your chassis warranty. Use the Dealer Locator on the GripSport website to find your nearest dealer.



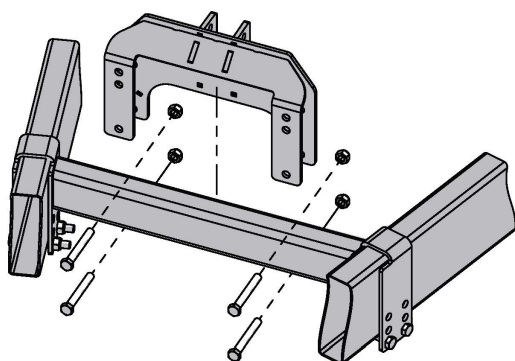
Welding Saddles

1. Obtain a piece of RHS steel to use as the cross member. Rectangular Hollow Section steel 50mm x 75mm x 3mm **OR** 50mm x 100mm x 3mm.
2. Position RHS steel as described earlier and mark out on drawbar.
3. Cut RHS steel to the appropriate angle and length to fit in between your drawbar/chassis rails. Check fitment before welding.
4. Weld the RHS steel onto the Saddles, with a full perimeter fillet weld.
5. After welding and checking fitment, you can powder coat, galvanize, zinc plate, or hand-paint the assembly to match your chassis colour.



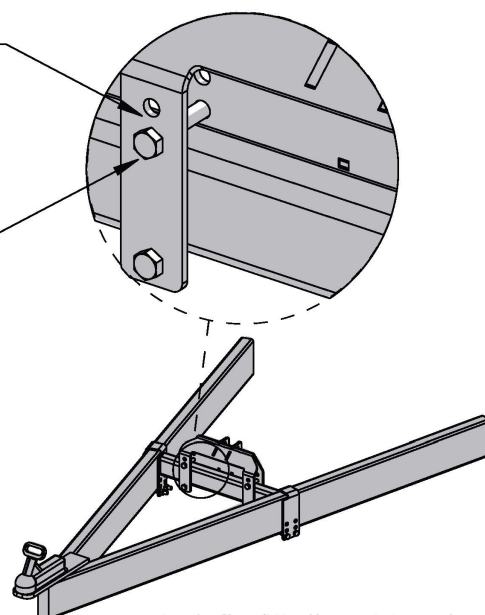
Fitting Instructions:

Fit Bolt-on Mount over Cross Member.
Fix with supplied M12 Bolts and Nuts.



100mm x 50mm
Cross Member
holes position

75mm x 50mm
Cross Member
holes position



IMPORTANT!!
Bolt-on Mount top bolts must sit snug on top of Cross Member!!

Use corresponding bolt hole positions as shown above.

Overview:

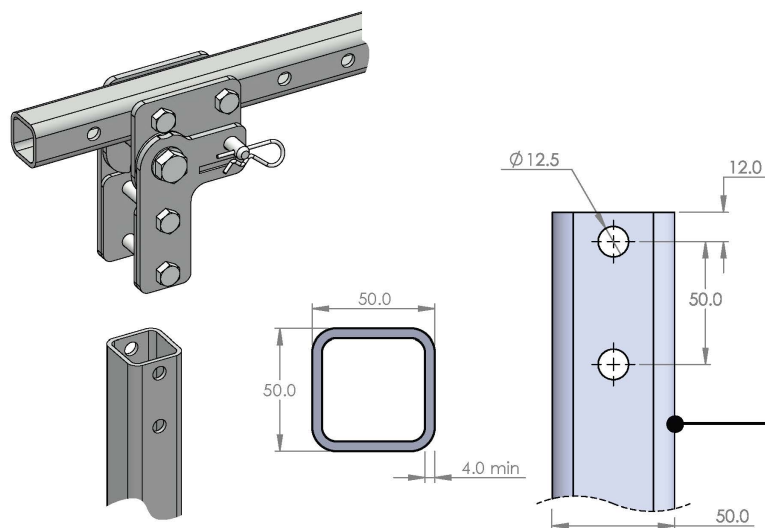
If fitting methods 1, 2 or 3 are not suitable – eg; due to size, position or space for a cross member and Bolt-On Mount Kit – a Custom Fabrication could be an option.

Please note:

- This should be done by a competent welder/fabricator, or one of our dealer/fitters may undertake this work for you. Check www.gripsport.com.au/bike-rack-dealers-for-caravans for locations.
- This often involves welding directly to your drawbar/chassis on the caravan or camper trailer, with some design and fabrication work involved.
- It will likely be the most expensive and time-consuming fitting method.
- We don't suggest this option unless there is no other choice. Please consult a professional for this method if you are not confident doing the work yourself.

Direct Weld

1. The vertical/upright 50mm x 50mm x 4mm steel Post included with your Bolt-On Mount Kit needs to be welded directly to the drawbar of your caravan. At the weld site, the zinc plating should be stripped off the Post, likewise any galvanised/paint coating removed from the caravan drawbar.
2. Some additional bracing and/or gussets are required to prevent both back/forth movement, as well as side to side rocking. **Both fore/aft and sideways supports are required!**
3. The vertical/upright Post needs to be cut to the correct height to clear any accessories, and in an appropriate position along your draw bar as per previous methods.
4. Be sure to paint all welds and bare steel with cold-gal or zinc spray paint, or similar.



If you choose to supply your own vertical/upright Post, the upper end must be drilled with 4 holes to accommodate the GripSport Van-Rack Carrier Arm Mount (Tilting or Non-Tilting)

Overview:

Important Notice – Rear Installation Disclaimer

GripSport **does not recommend** the installation of **any** bike rack to the rear of a trailer system, including (but not limited to) caravans, camper trailers, or hybrid campers etc. The dynamic forces and leverage exerted on rear-mounted racks during transit are significantly increased compared to front drawbar mounting. These forces can result in structural failure and may cause damage to the rack, bicycles, vehicle, or personal injury.

Should a customer choose to proceed with rear installation, it is done entirely **at their own risk**.

The following conditions **must** be adhered to, to minimise chances of failure:

1. Installation must be carried out using the **GripSport Bolt-On Mount Kit only**.
2. The Bolt-On Mount Kit must be installed to a **reinforced rear bumper** of dimensions 50x75mm or 50x100mm.
3. The **rear bumper load rating must be confirmed** with the caravan manufacturer, and consideration must be given to **dynamic travel forces**, not just static load. NOTE: If caravan manufacturer cannot confirm this, then an independent engineering assessment must be done to confirm suitability of rear bumper.
4. A maximum of **two (2) bicycles** may be carried to minimise overhang and leverage.
5. Rear-mounted racks must not obstruct vehicle **lights or number plates**.
6. **No warranty** is provided by GripSport for any rear-mounted installation, and **GripSport accepts no liability** for any damage, failure, loss, or injury resulting from such use.

IMPORTANT!!

Rear mounted bike racks are NOT covered under warranty.



If you are uncertain about the dynamic load capacity of your rear bumper, you **must seek professional advice** prior to installation. GripSport strongly recommends consulting a **caravan specialist** to assess the suitability of your bumper and, if necessary, carry out appropriate reinforcement.