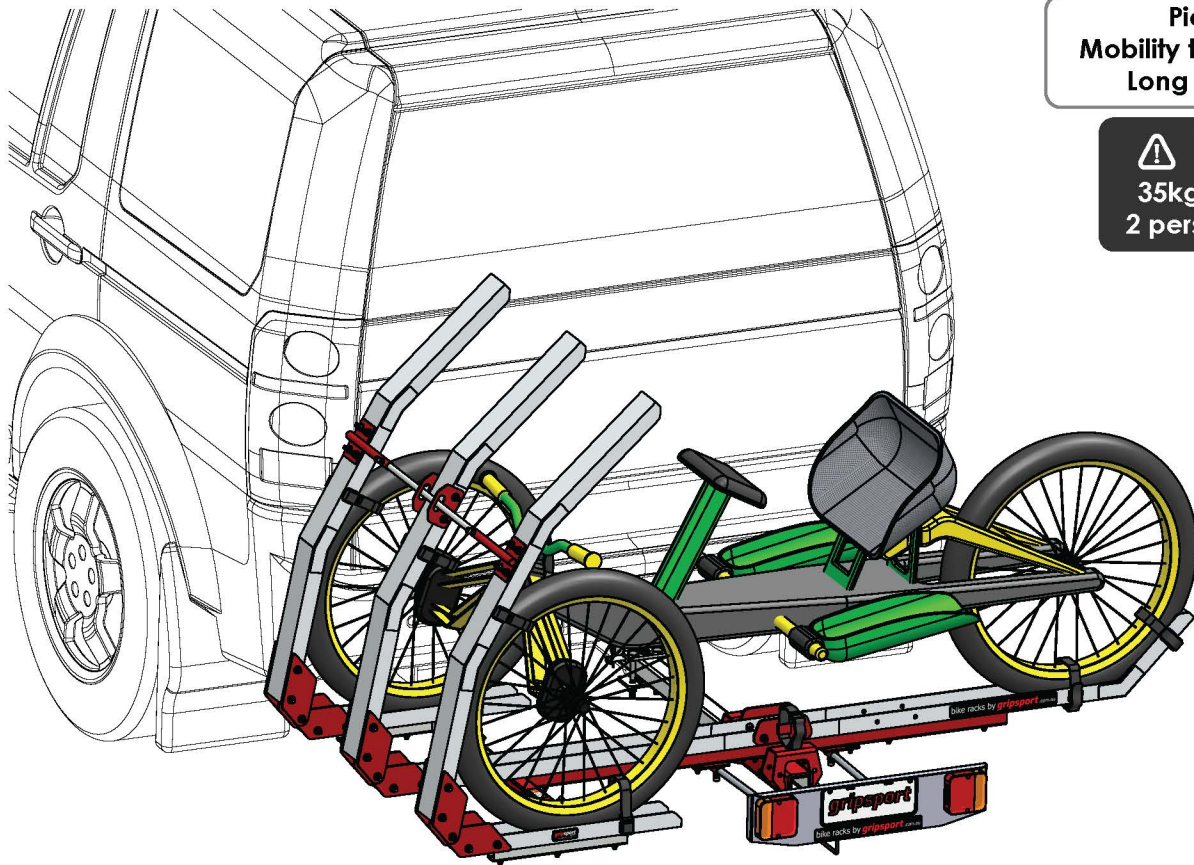


Ramped Trike Rack

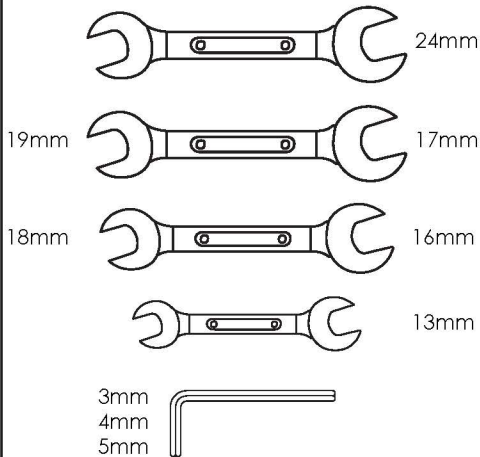
gripsport

**Pictured:
Mobility trike rack with
Long Hitch Arm**

**⚠ HEAVY ⚠
35kg Rack Weight
2 person lift advised**



Tools required:



**Rated: 50kg total bike weight
50x50mm Square Hitch Mount only
Light Off-Road use limited
Check Vehicle & Tow Bar Rating**

**Warranty:
5 year limited lifetime.
See all details online at:
www.gripsport.com.au/terms-conditions**



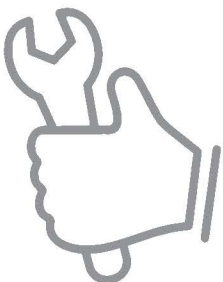
facebook.com/gripsport.real



[@gripsportbikeracks](https://www.instagram.com/gripsportbikeracks)



bit.ly/GripSportVideos



**Hand tools assembly only.
Do not use power tools.**



**Read and refer to this
manual to ensure correct
assembly and installation.
See also: Fitting Guide**



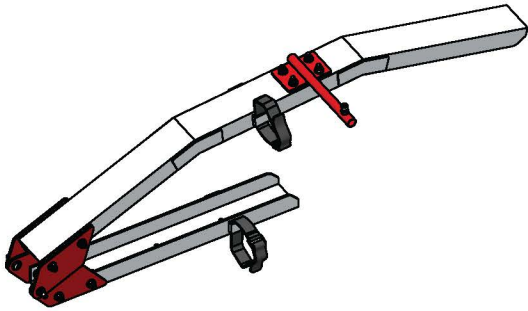
**Danger of accident and
injury if these instructions
are not followed. If unsure,
contact gripsport or get a
qualified installer to assist.**



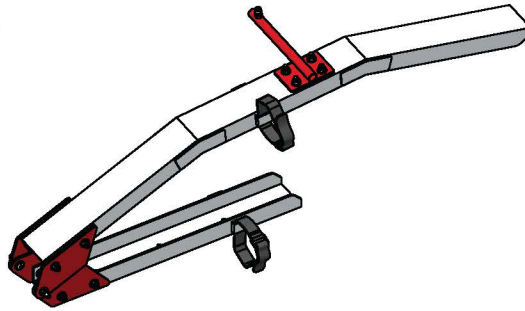
**website info at:
www.gripsport.com.au**

Trike Mobility Rack - Parts List

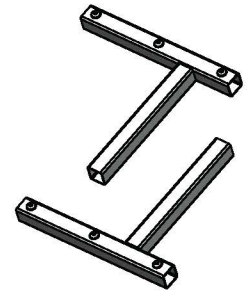
gripsport



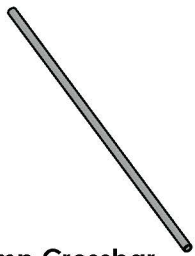
1 x Outboard Track - Left Assembly
(pre-assembled for Long build)



1 x Outboard Track - Right Assembly
(pre-assembled for Long build)

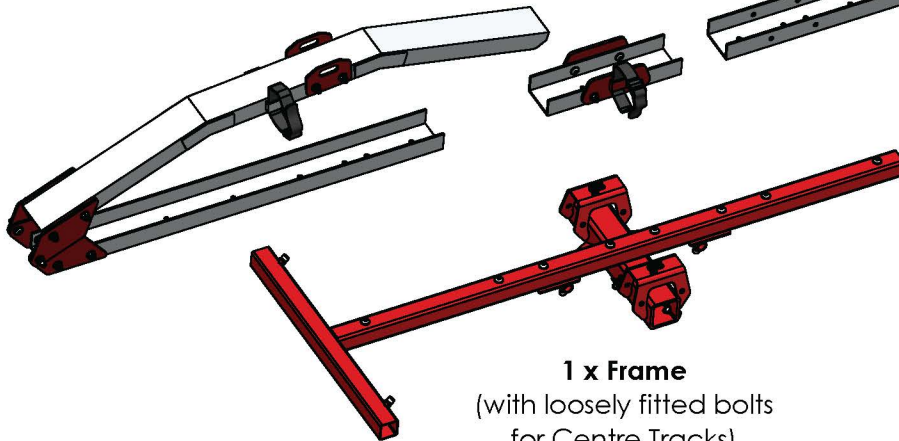


2 x T-Arms
(with loosely fitted bolts for Outboard Tracks)



1 x Ramp Crossbar

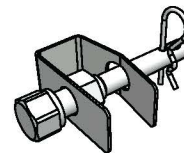
1 x Centre Track Assembly
sent loose for building either:
Long : Central Spacer fitted
Short : Central Spacer NOT fitted
(check enclosed size guide)



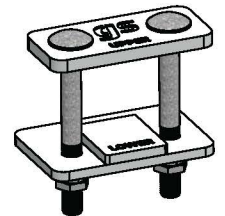
1 x Frame
(with loosely fitted bolts for Centre Tracks)



Cable Lock
(if selected)

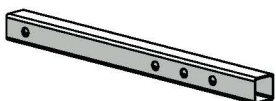


Hitch Stabiliser

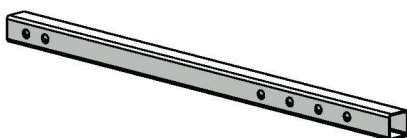


Hitch Clamp

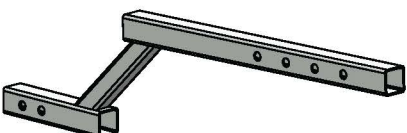
Hitch Arm options (select one)



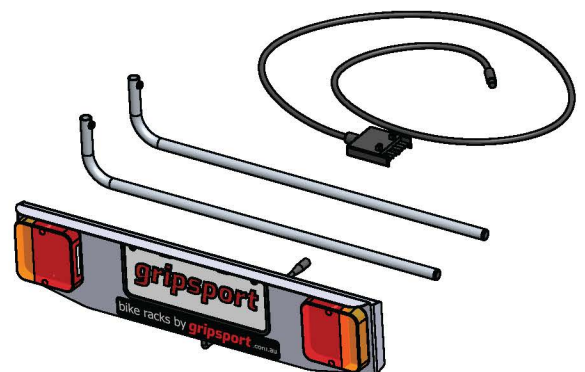
1 x Short Arm
(use with swinging style hitch mount - by others)



1 x Long Hitch Arm
(straight)



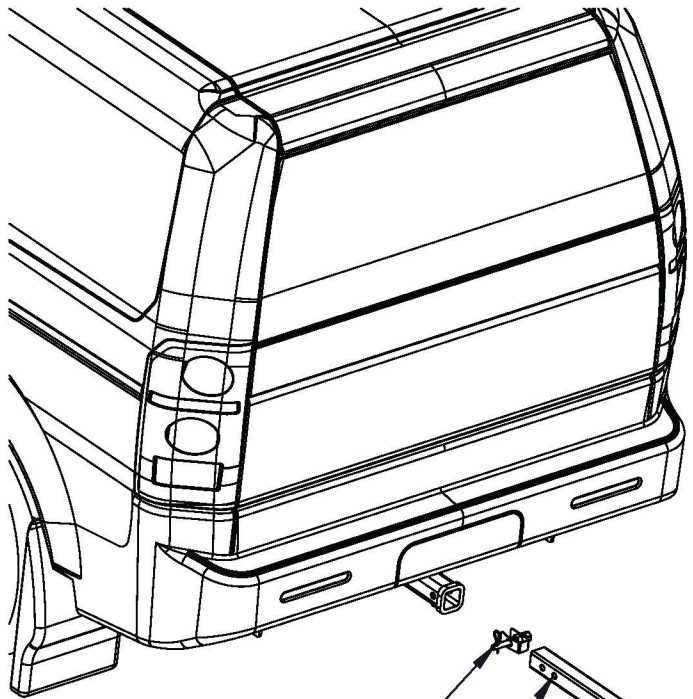
1 x Gooseneck Hitch Arm
(150mm rise hitch arm)



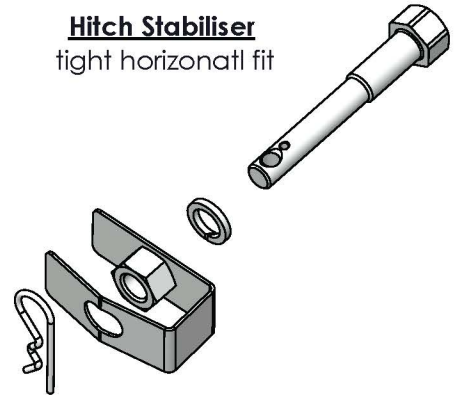
1 x Rack Light
incl detachable cable with 7-pin Flat plug connector

1. Install Hitch Stabiliser, Hitch Arm & Hitch Clamp

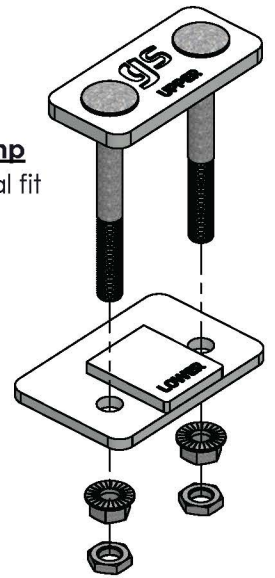
gripsport



Hitch Stabiliser
tight horizontal fit



Hitch Clamp
tight vertical fit



(a) Insert Hitch Stabiliser into Bike Rack Hitch Arm. See diagram on GripSport pack.

(b) Insert Bike Rack Hitch Arm into vehicle hitch up to desired position and secure accordingly. Tighten the Safety Pin and fit the supplied R Clip.

(c) Fit the Hitch Clamp over the top/bottom of the protruding Hitch Arm, making sure to catch the bottom edge of the Tow Bar Hitch with the Lower Plate.

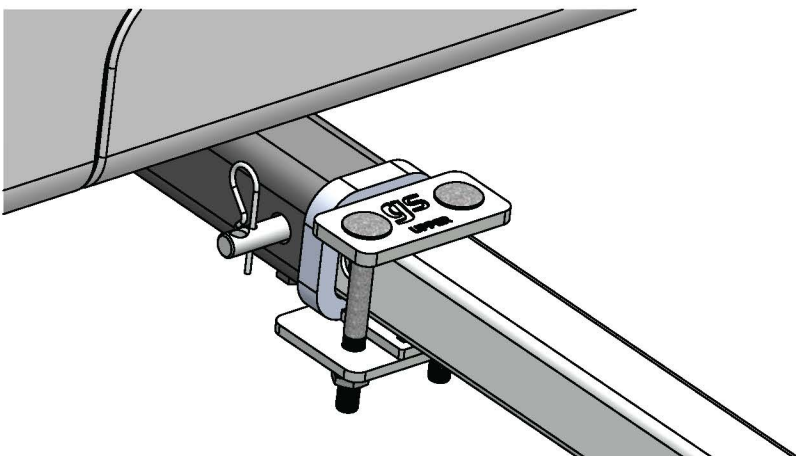
The Upper Plate only rests on top of the Bike Rack Hitch Arm.

Secure the large nuts underneath, one after another until tight, pulling the rack downwards.

Advance the nuts to a very tight limit.

Once the nuts are both equally very tight, screw on the thin locking nuts, and nip up to avoid large nuts loosening.

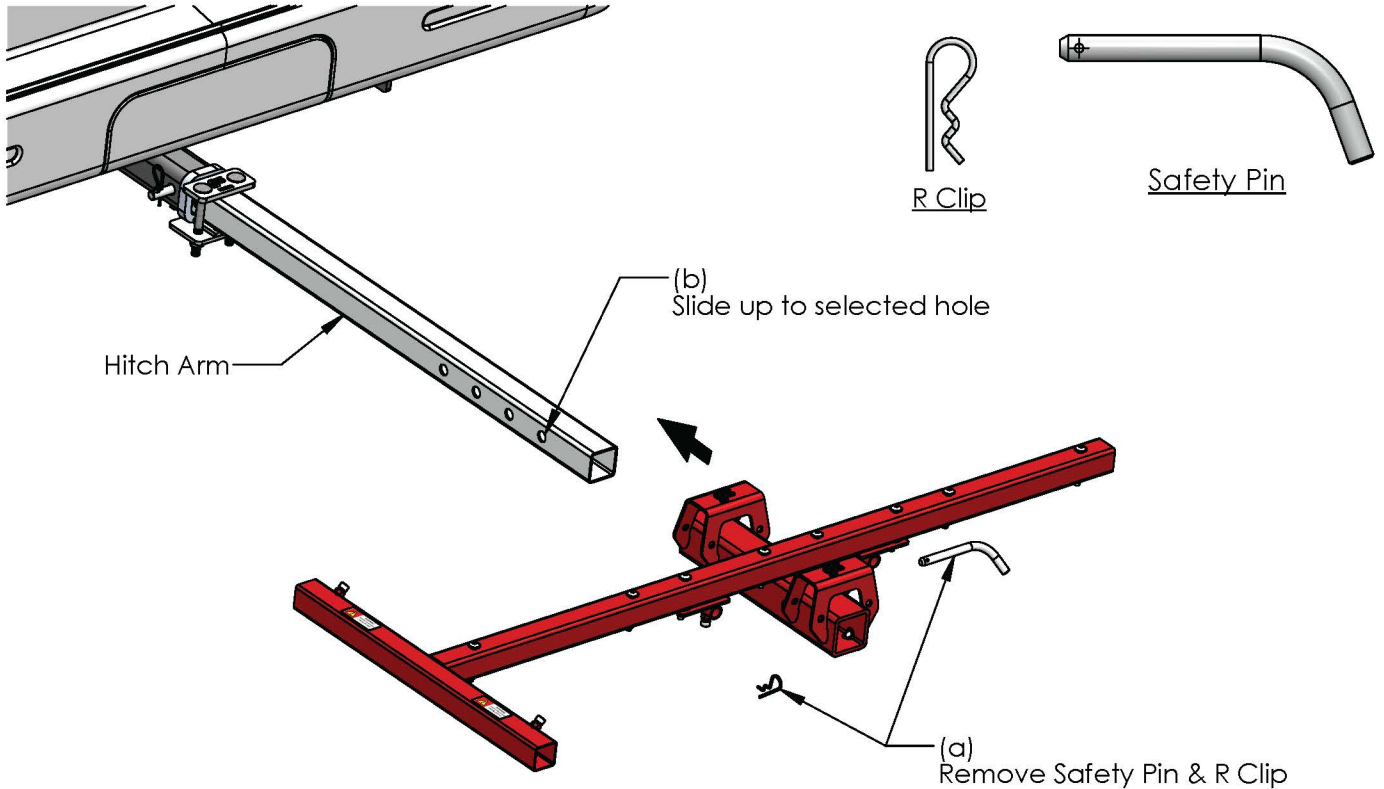
The installation should look like this below:



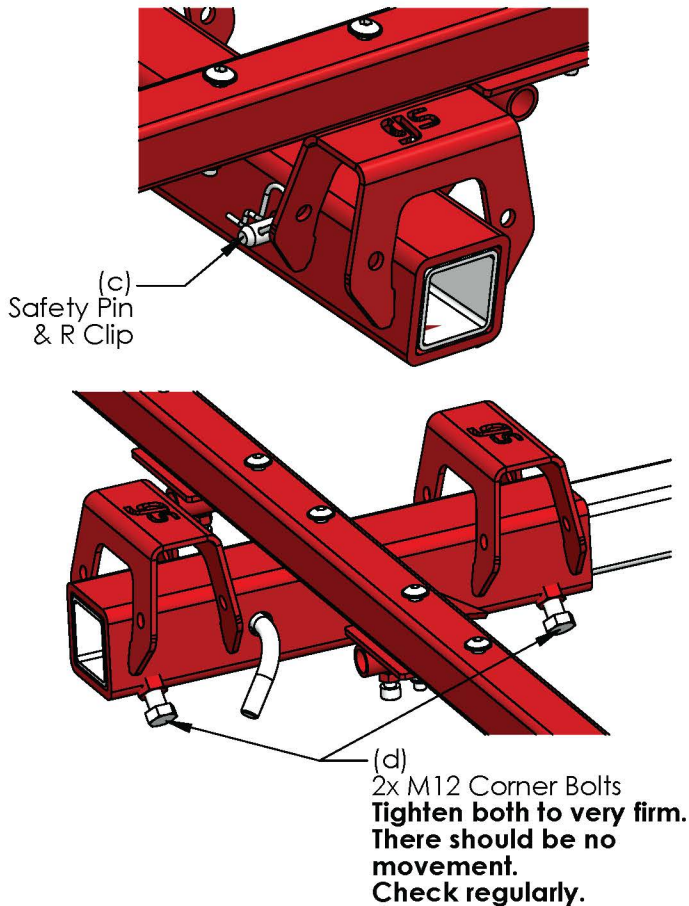
2. Fit the Frame onto the Hitch Arm

gripsport

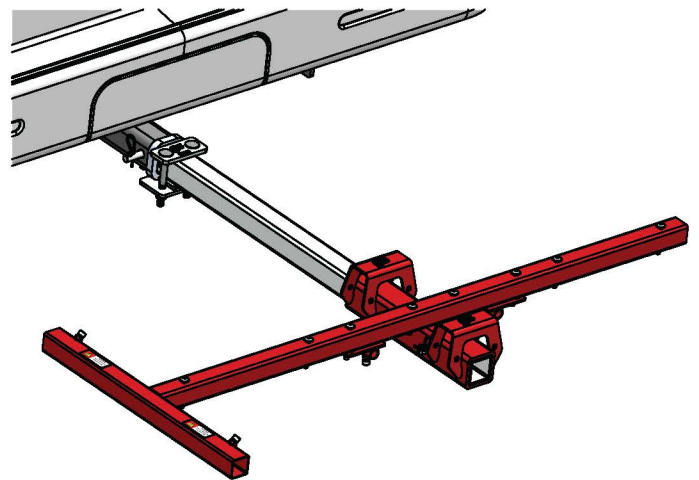
- Remove loosely fitted Safety Pin & R Clip from Frame. Partially unwind 2x M12 Corner Bolts.
- Slide Frame up to desired mounting hole, depending on trike size and vehicle clearance. If unsure, select first hole as shown and adjust later once rack is built according to your trike width.
- Insert Safety Pin through Frame and Hitch Arm. Fit R Clip into Safety Pin.
- Gradually tighten both M12 Corner Bolts, until firm both. **Complete by nipping both up to very firm.**



Assembled Detail Views



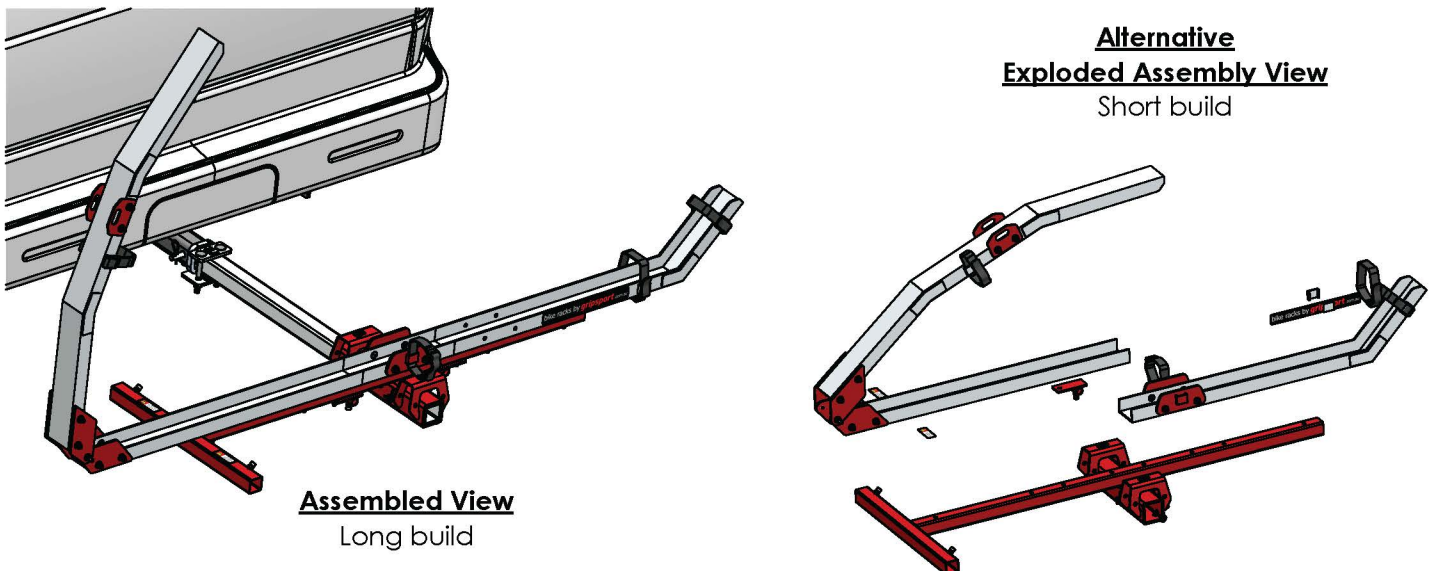
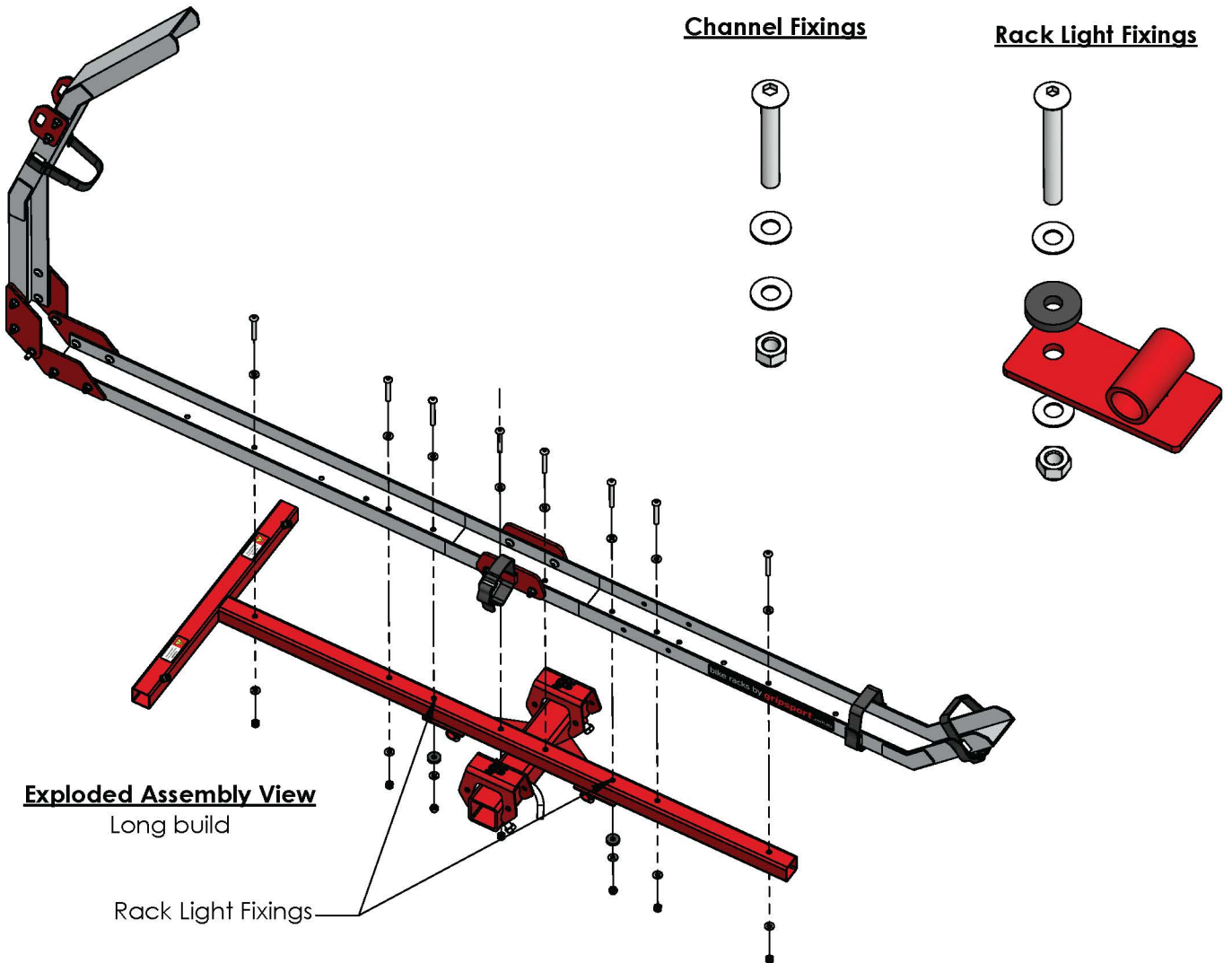
Assembled View



3. Fit the Centre Channel onto the Frame

gripsport

- (a) Remove loosely fitted sets of M8 Bolts, Washers & Nyloc Nuts, noting bolt length and locations.
- (b) Fit the Centre Channel and Ramp Assembly in place. For the Long Bike build, insert the Centre Block as shown in the diagram below. (Short build will not use the Centre Block - see Alternative below).
- (c) Ensure the Rack Light Mounts & Spacers are in position as shown below.
- (d) Loosely replace all M8 Bolts, Washers and Nyloc Nuts. Position Centre Block snugly & align channels.
- (e) **Complete by firmly nipping up all Bolts/Nuts.** Overtightening will deform the underside of the Support Bar.

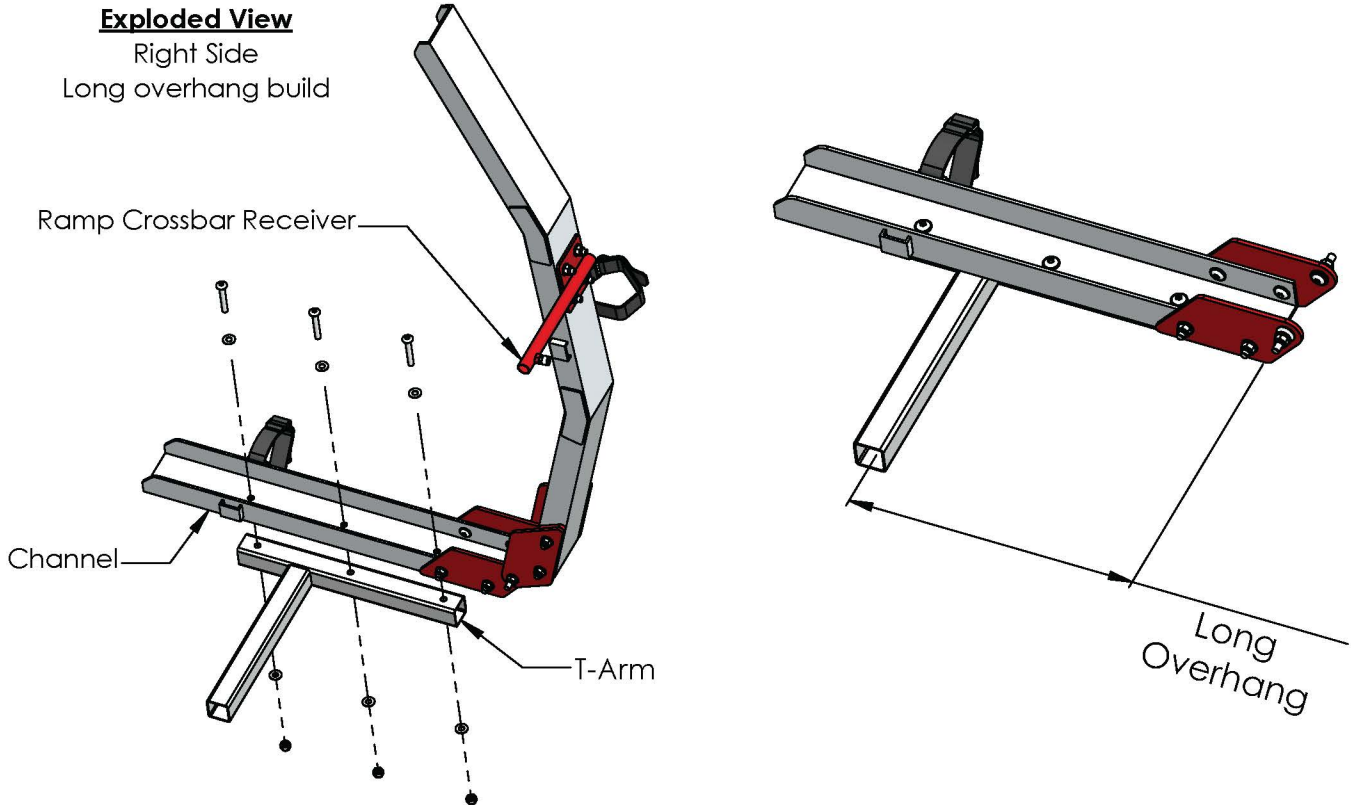


4. Fit the Outboard Channel onto the T-Arm - Right side

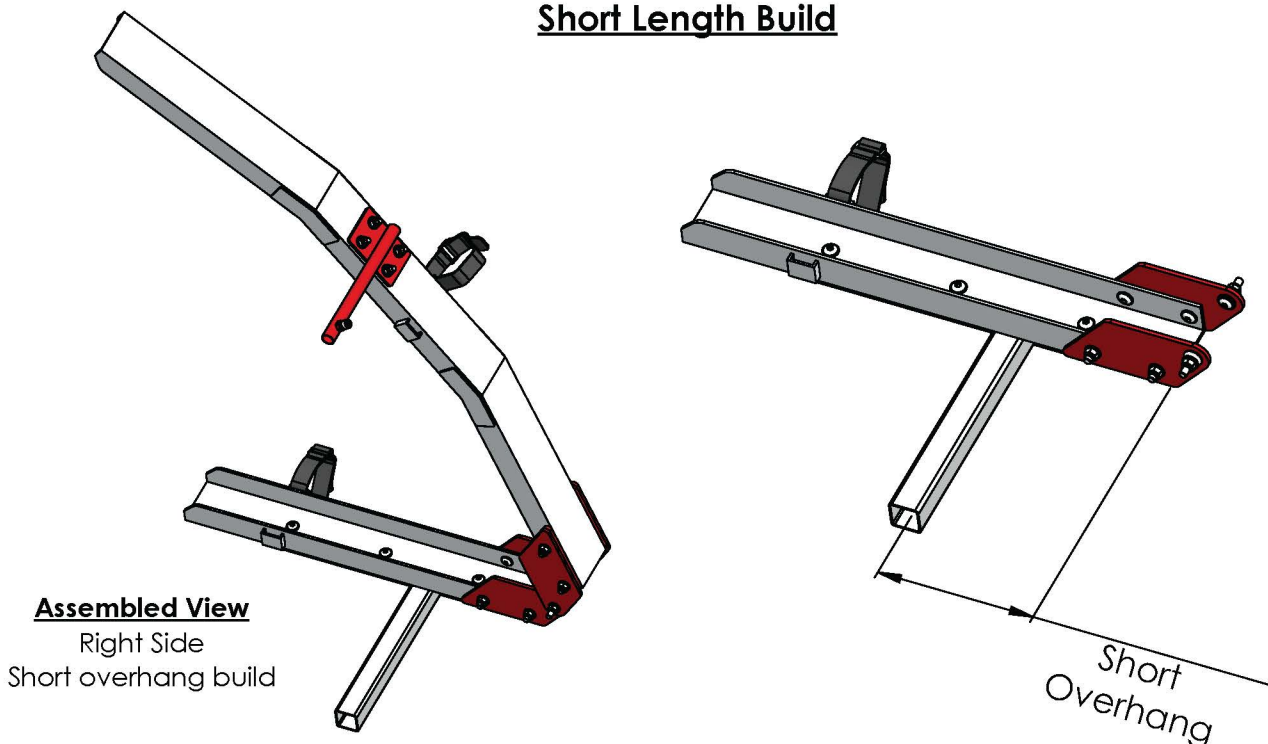
gripsport

- Remove loosely fitted sets of M8 Bolts, Washers & Nyloc Nuts from Right Wheel Channel. Note that the red Ramp Crossbar Receiver is already fitted and should point inboard towards the Centre Channel.
- Grab a T-Arm. Note that this is reversible and can be used upside down / back to front. Orientate the arm points inwards and to have the long overhang for the Long build (else see Short build below).
- Loosely replace all M8 Bolts, Washers and Nyloc Nuts.
- (d) Complete by firmly nipping up all Bolts/Nuts.** Overtightening will deform the underside of the T-Arm.

Long Length Build



Short Length Build

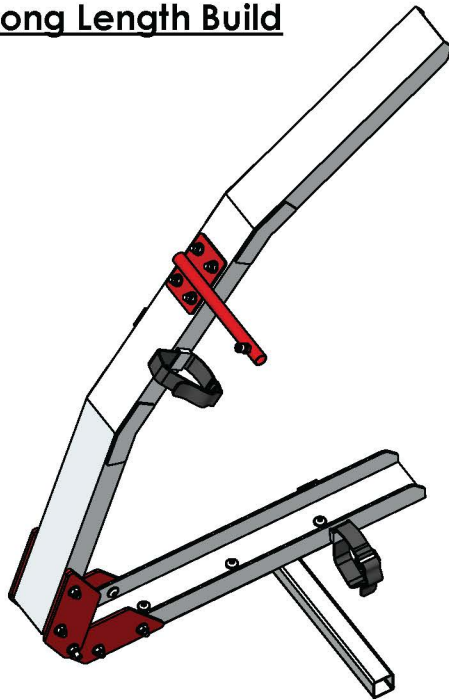


5. Fit the Outboard Channels onto T-Arms - Left side

gripsport

- Repeat previous steps for Left side. Tip: red Ramp Crossbar Receiver should point inboard.
- Orientate T-Arm to points inwards and to have the long overhang for the Long build (else Short build).
- Loosely replace all M8 Bolts, Washers and Nyloc Nuts.
- Complete by firmly nipping up all Bolts/Nuts.** Overtightening will deform the underside of the T-Arm.

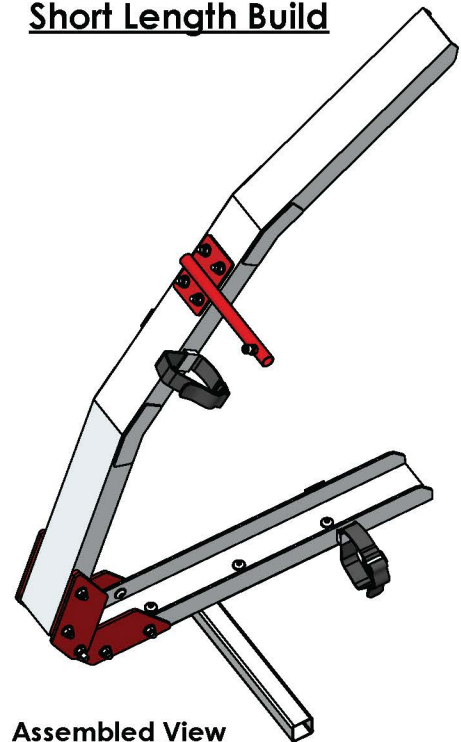
Long Length Build



Assembled View

Left Side
Long overhang build

Short Length Build



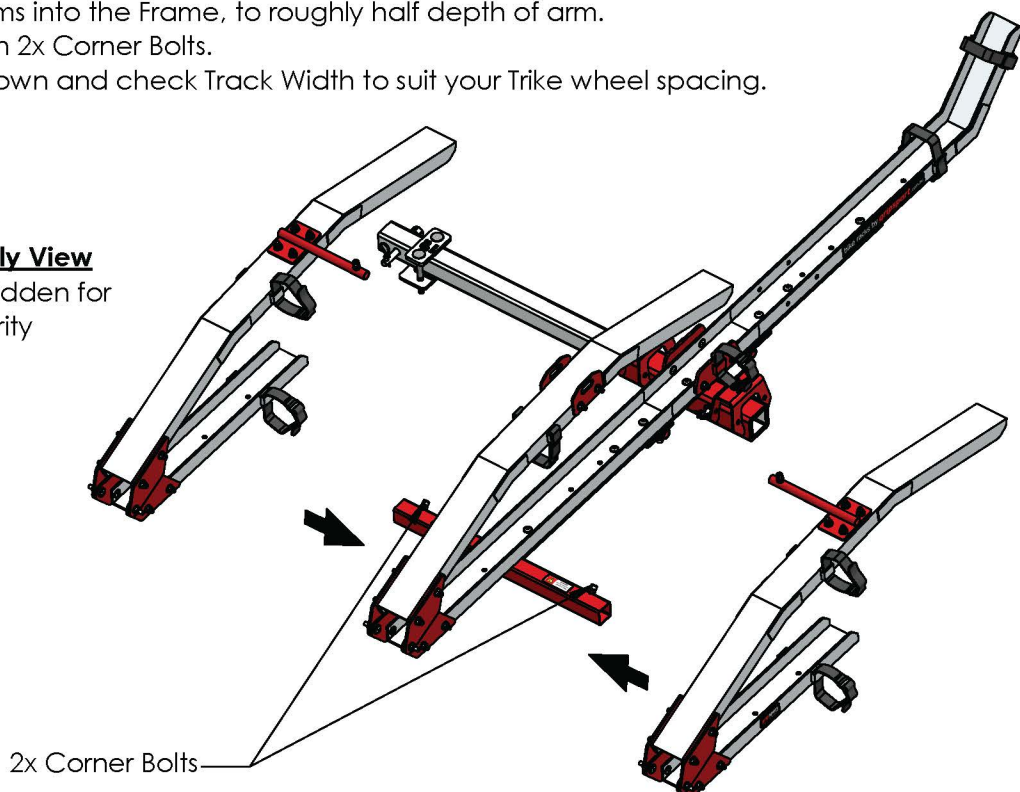
Assembled View

Left Side
Short overhang build

6. Fit the T-Arms into the Frame

- Loosen 2x Corner Bolts on Frame arms.
- Insert the T-Arms into the Frame, to roughly half depth of arm.
- Loosely tighten 2x Corner Bolts.
- Fold Ramps down and check Track Width to suit your Trike wheel spacing.

Assembly View
vehicle hidden for
clarity

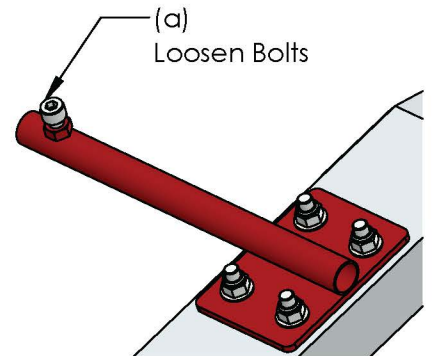
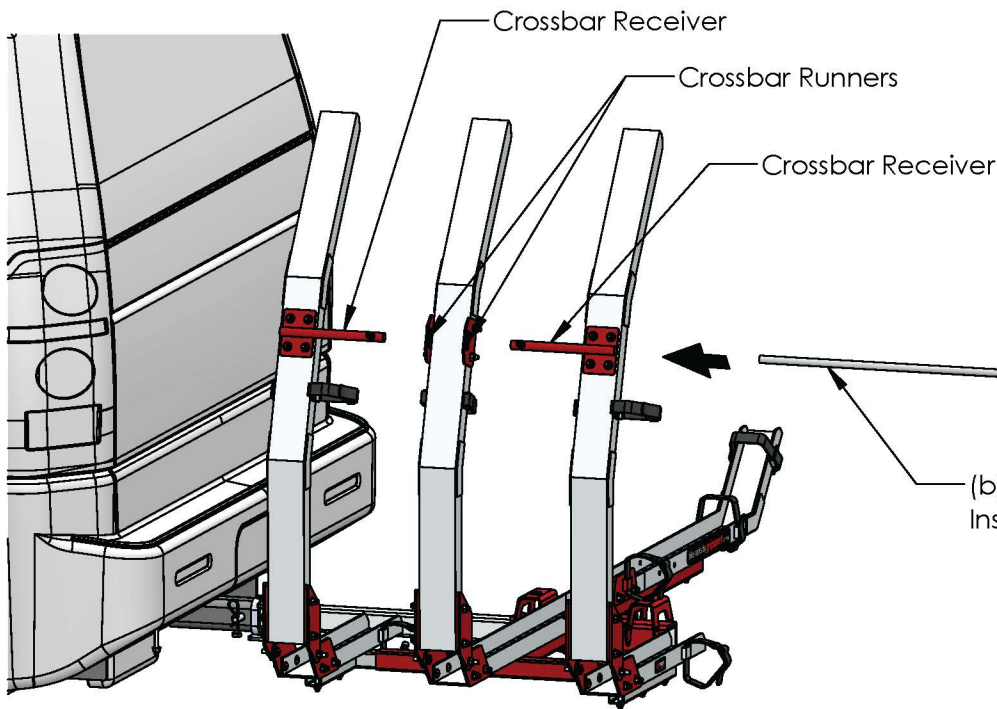


7. Connect Ramps with Crossbar & adjust

gripsport

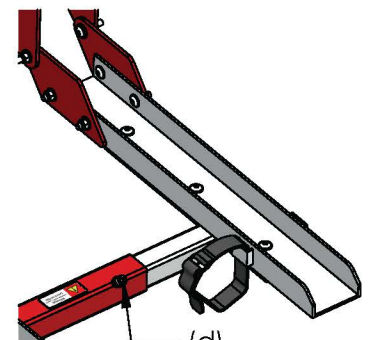
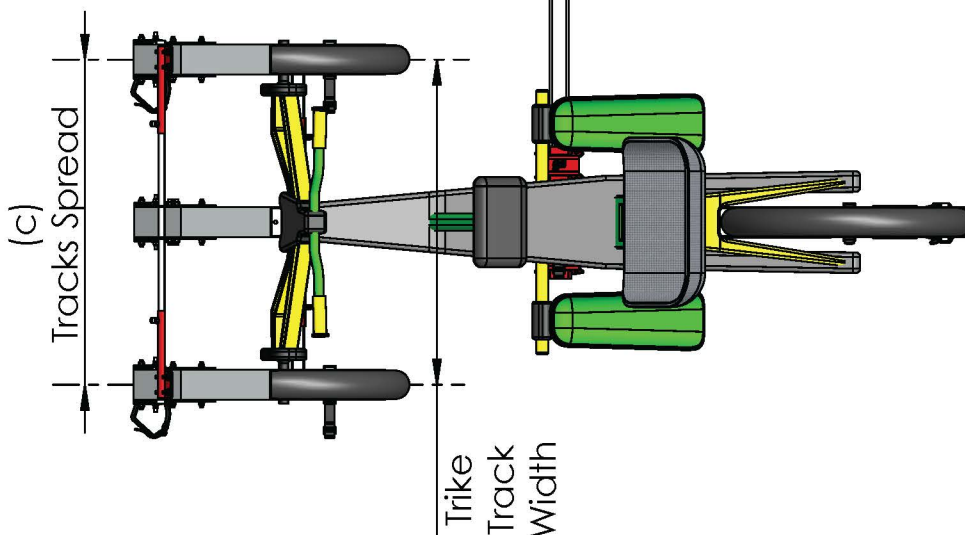
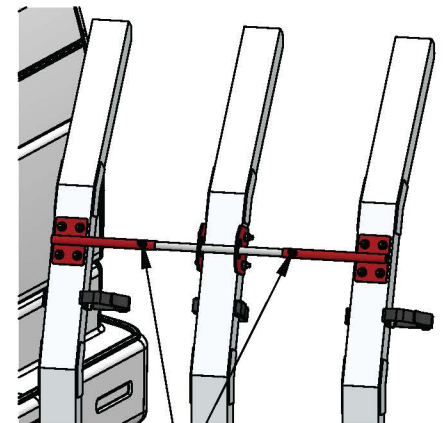
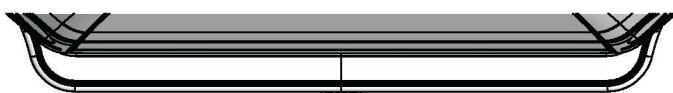
- (a) Loosen the M8 Cap Head Bolts on 2x Crossbar Receivers.
- (b) Insert the Ramp Crossbar through: Crossbar Receiver + Runners + Crossbar Receiver.
- (c) Adjust the Tracks Spread inward/outward to suit the track width of your trike (width across wheel pair).
- (d) Complete by firmly nipping up: 2x Crossbar Receiver Bolts & 2x T-Arm Frame Bolts.**

Assembly View



Assembled View

Top View



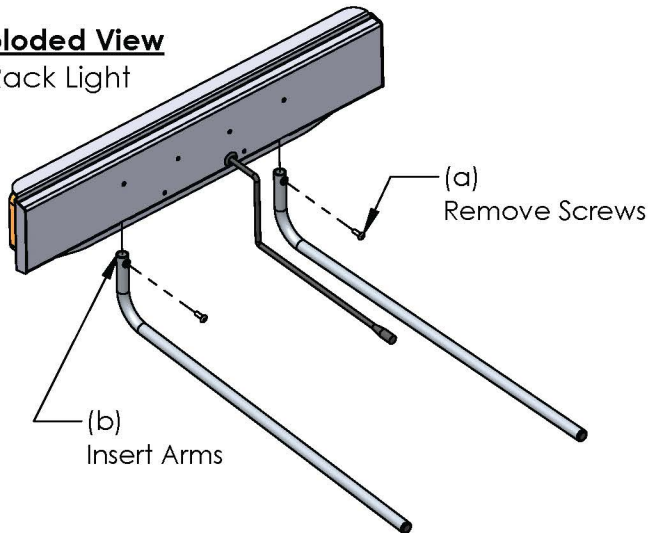
8. Add Rack Light

gripsport

- (a) Remove 2x loosely fitted screws in Arms.
- (b) Insert the 2x Rack Light Arms into the Rack Light Body as shown.
- (c) Screw into place and fix arms as shown below.
- (d) Insert the Rack Light Arms in to the Rack Light Sockets mounted on the underside of the Frame.
- (e) Adjust depth rearward/accordingly for clear visibility and align Rack Light flat to rear direction.
- (f) Complete by firmly nipping up: 2x Rack Light Socket Bolts.**
- (g) Connect Rack Light Cable to Lead and connect 7 pin Flat Plug to vehicle. Check lights operate correctly.

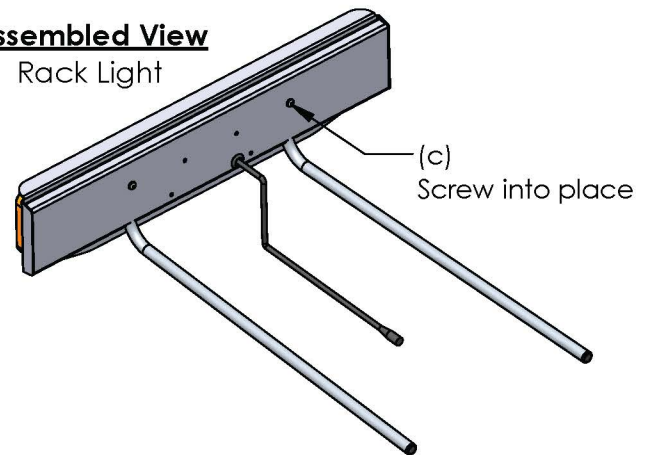
Exploded View

Rack Light

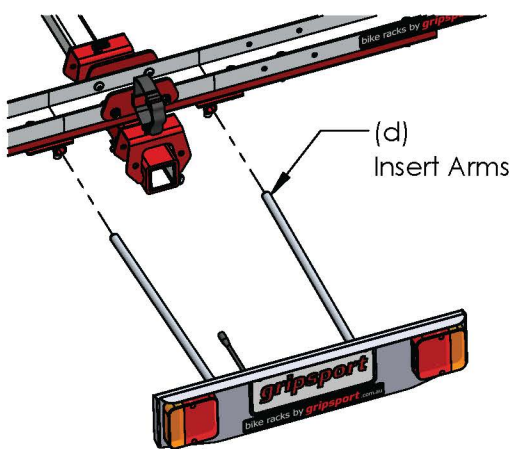


Assembled View

Rack Light

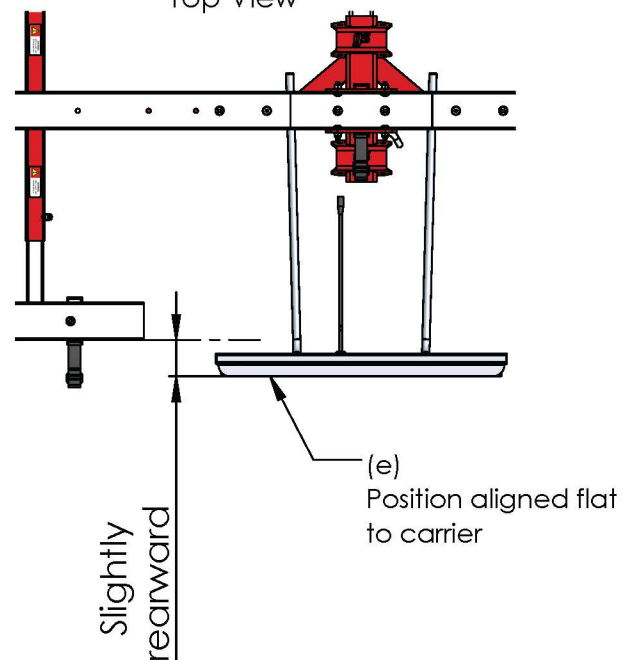


Assembly View



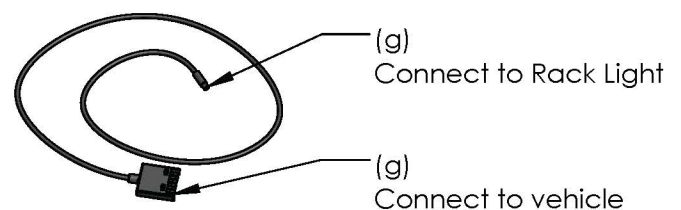
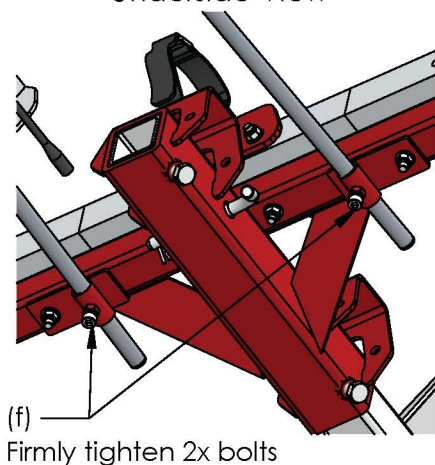
Assembled View

Top View



Assembled View

Underside View



9. Secure with Straps & final check + Security

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- (a) Secure the trike wheels using the provided velcro Cinch Straps, through the loops as shown below. You may need to reconfigure the strap as either "thread-back" or "looped circle" use, adjusting accordingly to suit your tyre size. **The straps should be pulled firm and then pressed to close the velcro.**
- (b) For heavy trikes and those with suspension, it is recommended to additionally use Tie Down Straps across the middle area of the bike, securing it to the Frame at the allocated anchor holes. Compress the suspension to create a firm tension on the Tie Down Strap/s, **to ensure it is always pulled tight during typical/bumpy driving conditions.** Also consider locking out the suspension if possible. If the provided straps do not reach over your bike, you may need to source longer/alternative straps.
- (c) **Check Trike is held firm and cannot move on rack. Re-tighten fixings & velcro if needed.**
- (d) Recheck after first 30mins of driving and then periodically thereafter. Check more often over rough terrain.
- (e) Check often!

2x Lock Loops welded to Frame.

Facility to lock the trike to the rack. Can additionally lock the rack to the car.

