

In use

Make sure the straps are clear of the load bed. Place the box onto the load bed so the location feet fit into the load beds holes. Taking the free ends of the Velcro straps and wrap them over the top of the box. Feed the bullet nose of strap one through the plastic loop of strap two and pull taught. Secure strap two to itself. For Heavy loads or off road use we recommend that a strap is wrapped over the top of the box and under the load bed in one big loop. This can either be the two supplied straps joined together or another strap or rope. Ensure the restraining straps are tight and in good condition before every ride.

Trailer riding rules

For your safety and enjoyment follow this routine before every ride.

1. Check that the wheels hitch and handle are secure before every ride.
2. Make sure your brakes are well maintained, a loaded trailer can dramatically increase the time needed to stop.
3. Make sure the trailer is loaded as recommended in our loading guidelines. Make sure the load is secure; be aware of where the centre of gravity is and how this will affect handling.
4. Always ride within your and your bikes limits.
5. Have fun.

We will not accept responsibility for how you modify ride or load the trailer. It is your responsibility to decide whether what you are doing with the trailer is safe and within the law.

Maintenance

The Y-Frame needs very little maintenance, however its reliability and length of service can be dramatically improved by following these simple guidelines:

1. Regularly oil the mechanism of the Quick release axles, especially during winter and wet periods.
2. Occasionally clean the frame, paying particular attention to where the handle sleeves inside the frame, the hitch and the axle receivers. Whilst cleaning the frame look for any sign of damage that may cause the trailer to fail. If you do find damage such as frame cracking consult a competent individual before you use the trailer again.
3. NEVER oil or grease the hitch. This attracts grit and rapidly shortens the hitches life span. If you do want to lubricate it you can use Graphite powder.
4. Occasionally check the condition of the wheels. Are the spokes tensioned, how worn are the tyres, is there any looseness in the wheel bearings. If you do not feel comfortable performing these checks consult your nearest bike dealer.

5. If the axle will not stay in its receiver it may be that it needs adjusting to be longer. To test this try fitting the axle without the wheel on it. If it locates fine and will not pull free then it probably needs adjusted longer, if it still pulls free then the mechanism is probably stiff and should be oiled. To adjust the axle length fit one spanner to the flats at the end of the axle and another to the lock nut at the other end. Twist the lock nut to lengthen or shorten the axle. Adjust by small increments only until the axle is secure with the wheel on.

Nick Lobnitz - The creator of Carry Freedom, lives and works on a farm in rural Scotland. A graduate engineer, Nick has worked as a silversmith and conservation worker as well as managing a Skein Dubh production line. Nick originally designed the city in 2001 to replace his deficient mono wheel trailer, and from this Carry Freedom has grown.

About USED - USED is about mobility. USED covers fields of mobility solutions from ergonomic bikes, through trailers to longboards. Our USED-Philosophy is based on the theory: The only good product is a product being USED. Everything else is a waste of resources, time and of course, money. "We want to sell products that people use - If you don't need it, don't buy it! That's the message."

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Check out our web sites for other USED products, like the Y-Frame trailers from Carry Freedom, ScooterBikes and Trikes, Cactus10 with bmx, longboards and cool cruisers and the DownLowGlow if you want to shine above the rest!

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Carry Freedom in cooperation with USED proudly present the -

Y-FRAME - HANDBOOK



CARRY FREEDOM - Y-FRAME

The Y-Frame is unique. You buy a platform. You decide what you want to transport and your Y-Frame fits your needs. use a Rack-Pack from Ortlieb, a collapsible shopping box, a beer crate, a pet kennel - the only limitation is your own fantasy!!

Take the wheels off and hang the trailer on the wall when not in use. Your trailer can carry loads of up to 45 kg (Y-Frame small) and 90 kg (Y-Frame large).



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Welcome to the Y-Frame!

Thank you for choosing the Carry Freedom Y-Frame bicycle trailer. These instructions will help you get the most from your new trailer. If you have any queries or questions please contact us on 0049 5434 9238881 or e-mail info@used-HQ.com.

Content of the box

The Y-Frame is flat packed for shipping and will need to be assembled before use, the box should contain: 1 X Handle with hitch attached. 1 X Main frame with load bed attached. 2 X Wheels.
1 X Accessories box.

The box of accessories should contain: 2 X Axles, 2 X Rubber hub caps, 1 X Lynch pin that hold the handle to the frame, 1 X Lynch pin that hitches the trailer to the bike, 2 X Load straps, 4 X Box location studs and these instructions.

To assemble the trailer

1. Fit an axle and rubber hub cap to each wheel.

Press the button on the axle and push it through the centre of the wheel. The nutted end of the axle should fit into the recessed side of the hub. Push the rubber hub cap into the recessed side of the wheel so it covers the nut and button of the axle.

2. Fit the wheels to the frame.

Press the centre of the rubber hub cap, doing this will push the button of the axle. Push the axle into its receiver on the trailers main frame. Repeat for both sides. Pull at the wheels to ensure they are secure. If they pull away despite the axle being in as far as possible then the axle length may need adjusted, please consult the maintenance section for details.

3. Fit the handle to the frame.

Slide the handle into the main frame tube until the holes in the handle and the frame line up. Push the lynch pin through this hole and secure its spring gate.

4. Fitting the Y-large load bed.

If you have a Y-large you will need to bolt the load bed to the frame. The load bed is attached via four counter sunk allen head bolts along with four lock nuts. The load bed should be bolted to the top of the Y-Frame with its black grip surface facing up. Make sure to bolt the load bed to the top of the Y-Frame. The Y-Frames top faces up when the right hand prong of the Y has the black plastic bung in its end, and the left hand prong has a hole for the handles lynch pin in it.

Fitting the hitch to your bike

The U shaped hitch bracket remains permanently fixed to your bike. The hitch attaches to this with a spring gated lynch pin. The hitch bracket fits to the left hand side of your bikes rear axle, it is universal and will fit either a conventional threaded axle or a Quick releasing axle.

Quick release axles - If you have a Quick release axle remove this and place the bracket onto the quick release

shaft. Replace the Quick release axle and secure as normal. Ensure the hitch cup hangs below the axle, and the axle is seated in the recess provided.

Nutted axle - For the hitch bracket to be fitted to a nutted axle at least 3mm of thread must protrude beyond the nut before you fit the hitch cup. If this is not the case you may be able to remove some washers from below the nut, only consider this if you are a competent mechanic and judge this to be safe. If you are unable to fix the hitch cup to the bike contact us at custom@carryfreedom.com and we will fabricate a suitable bracket.

Unscrew the nut on the left hand rear axle stub. Remove any washers and place the hitch cup so it sits next to the frame. Replace any washers you have removed and retighten the nut. The hitch cup should hang below the rear axle.

Adjusting the Hitch - Before tightening either the Quick release or nutted axle you will need to adjust the angle of the hitch bracket so that it fits with the trailer hitch. To do this offer the trailer hitch towards the hitch bracket as if you were hitching the trailer. Rotate the hitch bracket until the trailer hitch can fit easily inside its U. Once adjusted tighten the axle nut or Quick release so the wheel is secure.

Your first ride - The first ride you make with your trailer should be without any load, in an area where there is a smooth surface and no traffic.

1. While the bike is stable and vertical hold the trailer by its handle and bring the trailer hitch to meet the hitch bracket. When the corresponding holes meet slide the lynch pin through them and secure the spring gate.

2. Before you ride make sure that all components of the trailer are secure. Specifically pull at the wheels to make sure they are secure, check the lynch pin's in the hitch and handle are secure.

3. When you have completed the safety checks climb onto your bike and cycle. Notice how the trailer turns a slightly tighter corner than the bike, you will need to get used to turning corners slightly wider than normal to avoid the trailer hitting the edge of the road. Also notice how it bounces around when it has no load in it, this can be controlled by reducing the trailers tyre pressure.

4. When you feel comfortable with an empty trailer it is time to load it and use it properly.

Loading the Y-Frame

The great strength of the Y-Frame is its ability to be loaded in many ways; these can be split into four broad categories:

1. Using an Ortlieb rack pack to hold your luggage. The Ortlieb rack pack's fit directly to the Y-Frame in seconds. The large Rack pack fits the Y-Small and the extra large

Rack pack fits the Y-Large. The bags compression straps that clip to the roll top at its ends should be threaded through the front and back holes in the Y-Frame before the are clipped to the roll top closure. The grip surface will abrade the Ortlieb bags waterproof coating very quickly, we strongly recommend that you place some form of matt between the bag and the trailer. Alternatively you can gently peel the grip surface from the wood if you plan to always use a bag.

2. Strapping the load directly to the frame. Any load can be tied down onto the anti slip surface of the load bed. The four holes in the load bed can be used as tie down points as can the aluminium Y-Frame below the load bed.

3. Using a box with a Quick release mechanism fitted. As described in a later section.

4. Bolting a box or the load permanently to the plywood load bed. If you want a box permanently fitted to the trailer it is easy to bolt it straight onto the plywood platform. We would recommend bolting a suitable box in at least four places, preferably near the four corners of the load bed. If the box is plastic penny washers should be used to reduce the chance of the bolt pulling through the boxes base.

Loading Rules

Irrespective of how you load the Y-Frame you should follow the following guidelines for safe travel:

1. Never exceed the loading limit as states on your trailers frame.

2. Ensure the load is secure and cannot interfere with the wheels or drag on the ground.

3. Be very careful if the load you carry has a high centre of gravity, generally if the centre of gravity of a load is higher than the axles are wide then extreme caution is needed. If this is the case cycle very carefully and slowly, and avoid any rough ground or side slopes.

4. The centre of gravity of the load should always be forward of the rear axle beam. The heavier the load the further back the centre of gravity should be.

5. Do not use the Y-Frame to transport live cargo.

6. Adjust the tyre pressure to match the load. The heavier the load the higher the pressure should be. For low rolling resistance the pressure should be as high as possible, while for smooth riding the pressure should be as low as possible. For any given load adjust the pressure until the load rides smoothly without causing undue drag. Always keep the tyre pressures within the recommended limits of the manufacturer, as stated on the tyre sidewall.

Quick release box mount

This Y-Frame is supplied with a kit that fits most hard body boxes and allows them to Quick release from and to the Y-Frame. The design is deliberately easy to replicate

should you wish to repeat it on more than one box. The kit consists of two 1m long Velcro straps and four box location feet. The location feet stop the box sliding about and the Velcro straps stop the box jumping of the trailer.

Selecting a suitable box

There is a vast range of boxes containers and suitcases that will fit directly onto the Y-Frame. In general these should be flat bottomed, and sturdy. When fitted to the trailer the centre of the box should not lie behind the trailer's axle and the front of the box should not overhang the front edge of the load bed i.e a maximum length of about 900mm. There must be at least 25mm gap between the box and the trailers wheels.

Euro pallet - The most common size of container are the Euro pallet series. A Euro pallet is 1200mm X 800mm, there are many boxes manufactured that fit this pallet size eg a beer crate is a 1/8 Euro pallet (300mm X 400mm). Our trailers are sized to accept 1/2 and 1/4 Euro pallet boxes. The 1/2 Euro pallet box footprint is 800mm long and 600mm wide, this will fit the Y-Large. The 1/4 Euro pallet is 600mm X 400mm and will fit the Y-Small trailer.

Trailer sizes - The axle width on the Y-Small is 500mm and on the Y-Large 650mm, their load bed sizes are 580X380 and 700X500 respectfully. The maximum box length is about 900mm on both trailers. If you need to carry a load that does not conform to these dimensions then contact our custom department. Either email custom@carryfreedom.com or phone 0845 456 0928. They can advise about the best strategy for adapting a trailer to carry your load. A Y-Frame can be stretched longer or wider, or made into a four wheeler.

Fitting

Location feet - The box will need four 6mm holes drilled in its base. The easiest way to drill the holes is to turn the box upside down and place the trailer (also upside down) on top of the box. The trailer should be positioned so the front edge of the box runs along the front edge of the load bed, and the box sits centrally between the two wheels. Mark the rough centre of the load beds four holes, remove the trailer and drill the holes. The four location feet should be bolted to the box. The sequence is as follows: Nut-washer-box-Location foot.

The nut needs a 10mm spanner and the bolt will need a 5mm allen key. The left and right location feet must be fitted, though if the box is short the front and rear feet may be omitted.

Velcro restraint strap - Tie the first Velcro strap to the left load bed hole, and the second to the right hole. Strap one: Pass the bullet nose of the strap through the hole, feed the nose through the straps plastic loop and pull tight, the free end will be the bullet nosed Velcro hook end. Strap two: Pass the bullet nose hook end through the load bed hole and secure the hook end to the loop body, the free end will have a plastic loop on it.