

Original

VELO ORANGE

Constructeur Front Rack Mounting

As with a custom made rack, the constructeur rack should sit as low as possible, just above the fender. This improves the bike's handling and appearance. Place the rack into position on your bike leaving just enough room for a leather washer between the rack's mounting bosses and the fender. Check that the rack is level and mark the position of the dropout eyelets on the rack's tangs (the ½" strips at the lower end of the rack). On a 700c bike this will be about two-thirds the way down the tang. This is where you'll drill the mounting holes.

Drilling and cutting the tangs:

We strongly recommend you buy a new 6mm or one fourth inch drill bit for this job. The stainless steel is very hard and using a dull bit will make the process painfully slow. Be sure the bit is intended for metal. While at the hardware store, you might buy a fresh hacksaw blade as well. Use a punch or hardened nail to make starting indentation where you on your mark; really whack the punch to make a nice dent. This is easier if the tang is on a hard surface such as an anvil or vice. Drip a bit of oil on the tang and drill at a slow to medium speed. If the oil starts to smoke, stop and drip a bit more on. Overheating the bit will cause it to dull quickly. Cut off the excess portion of the tang with a hacksaw and smooth the rough edge with a file.

Note: When mounting the rack you may want to place a small spacer, such as a nut or a couple of washers, between the tang and the dropout eyelet to prevent the rack from touching the paint on the fork. (For chrome racks: to prevent rust, apply some heavy grease to the spots where you've drilled or cut through the chrome. If you live in a wet or salty climate, it's a good idea to dab a bit of silver rust-proof paint, like Rustoleum, onto the area with a cotton swab.)

Mounting the Rear Tang

The tang on the rear of the rack is best attached to the fender boss under the fork crown (if your bike has a boss). Bend the tang down and back so it fits between the fender and the crown fork. Check that the rack is level and mark and drill the tang. Cut off any excess and bolt the tang between the fender and fork crown.

If your bike doesn't have a fender boss under the crown you'll need the included fork crown daruma hardware. The daruma will provide an additional place to mount the rack strut. If your bike has caliper brakes, thread the brake bolt through the front of the fork crown, through the daruma piece, then through the back of the fork crown. If your bike has cantilever brakes, simply use a bolt through the hole in fork crown with the daruma.

Mounting the rack to your metal fenders

It is traditional to also attach the front rack to the fender. This strengthens the fender and prevents rattling. Before proceeding decide how you will attach the fender struts. They may be attached to the same eyelet as the rack by using a slightly longer machine screw. They can be attached to a second eyelet if your bike has two sets. Or you may drill a second hole in the rack's tang for the fender strut bolts. Having the fenders attached will make mounting them to the rack easier.

Loosely mount the rack at the eyelets, check that it's level, and mark the position of the hole for the screw that will secure the rack to the fender. Remove the fender and wheel and drill the hole in the fender. Re-install the fender and place a leather washer between the fender and rack. Insert the mounting screws (the short button head screws provided). That's all there is to it. If you need any additional help, please don't hesitate to e-mail us at info@velo-orange.com.

Re-Design

Note: I've **marked in red** the terms that need further definition or areas where I would ask an SME for clarification. I recommend including a parts diagram at the beginning and diagrams or pictures with each step. I don't know enough about bikes or this process to fully understand what some of the instructions mean; hopefully I've still done the instructions justice.

Velo Orange Constructeur Mounting Instructions

If you need any additional help, feel free to e-mail us at info@velo-orange.com.

What's Included

- Constructeur Rack
- **Short button head screws**
- **Fork crown daruma hardware** (for bikes that don't have a **fender boss under the crown**)

What You'll Need

- Permanent marker
- **Punch** or hardened nail
- Oil (**what kind?**)
- 6mm or ¼ inch drill bit intended for metal
- Sharp hacksaw blade
- File
- Nut or two washers (optional)
- Leather washer

Things to Consider

- A new and very sharp drill bit is recommended; a dull bit will take much longer
- To protect the paint on the fork, place a small spacer, such as a nut or a couple of washers, between the tang and the dropout eyelet
- For chrome racks: to prevent rust, apply some heavy grease to the spots where you've drilled or cut through the chrome. If you live in a wet or salty climate, dab a bit of silver rust-proof paint (like Rustoleum) onto the area with a cotton swab.

Instructions

1) Mark the locations for the mounting holes

- Place the rack into position on your bike
 - Make sure it's level
 - Set it as low as possible above the fender
 - Leave just enough room for a leather washer between the rack's **mounting bosses** and the **fender**. (**is this only applicable if you have a fender boss?**)

- Find the **dropout eyelets** on the rack's **front tangs** (the ½" strips at the lower end of the rack); on a 700c bike this will be about two-thirds the way down the tang (**why is this particular model included?**)
- Mark this location with a permanent marker
- Determine if your bike has a **fender boss** under the **crown on the rear tang**
 - If yes:
 - Bend the tang down and back so it fits between the fender and the crown fork
 - Mark the location of the holes as above
 - If no, you'll need the provided **fork crown daruma hardware**:
 - Determine if your bike has **caliper or cantilever brakes**
 - For caliper brakes:
 - Thread the brake bolt through the front of the fork crown, through the daruma piece, then through the back of the fork crown
 - For cantilever brakes:
 - Use a bolt through the hole in the fork crown with the daruma

2) Drill the mounting holes in the front and back tangs

- Make an indentation on each mark using a punch or hardened nail; this is easier if the tang is on a hard surface such as an anvil or vice
- Drip some oil on one of the indentations
- Drill a hole where your indentation is using slow to medium speed
 - If the oil starts to smoke, stop and add more
- Repeat for all other indentations

3) Cut off the **excess portion** of each tang with a hacksaw and smooth the cut edges with a file

4) Mount the rack to your metal fenders

- Attach the fender struts using one of these three options:
 - Attach to the same eyelet as the rack using **a longer machine screw**
 - Attach to a second eyelet if your bike has two sets
 - Drill a second hole in the rack's tang for the fender strut bolts
- Loosely mount the rack at the eyelets (check that it's level)
- Mark the position of the whole that will secure the rack to the fender
- Remove the fender and wheel
- Drill a hole in the fender where marked
- Re-install the fender, placing a **leather washer** between the fender and rack
- Insert the provided short button head mounting screws