



Wheel User Manual

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Thank you for purchasing your Vel wheels, your journey starts here.

Developed by cyclists, for cyclists, we understand the importance of quality bike equipment.

All Vel products are thoroughly tested to ensure optimum performance out on the roads, trails and beyond.

You can register your wheels for warranty purposes at **www.velbike.com** simply fill in the details and serial number which can be found on each wheel.

If you have any further queries, drop us a line on **info@velbike.com**

Enjoy the ride,
Team Vel.

General safety warnings.

Before using your new Vel wheels and any adapters for the first time, please read the following instructions carefully.

Please keep these instructions in a safe place and pass them on to any other users.

Cycling always involves an inherent risk of serious or possible fatal injury.

If you fail to follow these instructions you are putting yourself at risk of serious or possible fatal injury.

For instructions on how to install your Vel wheels and any third party components such as cassettes and disc rotors refer to the instructions provided by your bike or third party component manufacturer.

Ensure that any third party components are compatible with your Vel wheels before attempting installation.

Check that your Vel wheels are compatible with your frame and fork, with clearance between the wheel, frame, hub, disc rotor and tyre dimensions.

If you are in any doubt about how to use, assemble, maintain, repair or replace with original parts, please contact us at **info@velbike.com** or consult your Vel dealer or a qualified cycle mechanic.

Rider weight and equipment limits and intended use.

Weight limits:

All weight limits listed below for Vel wheelsets are combined rider and equipment weight:

- ♦ Vel Alloy road models – 100kg maximum.
- ♦ Vel Alloy gravel models – 110kg maximum.
- ♦ Vel Carbon road models – 110kg maximum.
- ♦ Vel Carbon gravel models – 120kg maximum.

Intended use:

Only use Vel wheelsets for the intended usage stated in the product description.

Do not use Vel wheelsets on electric bikes.

Do not use off road unless specifically stated in the product description.

Do not use for mountain biking unless specifically stated in the product description.

Do not use disc brake wheelsets with rim brakes.

Do not use on tandems, trikes or recumbents.

If a wheelset is used outside of its intended use, this increases the risk of failure and could result in serious injury or death.

Regular riding to the limits of a wheelset could increase fatigue and reduce the life cycle of the wheels. It is advised that the wheelset is inspected on a more regular basis.

Fitting, inflation and tyre sizes.

Please read the following information carefully as failure to follow this advice may result in the failure of your tyres which could cause serious or fatal injuries.

Fitting:

Only use tyres that are compatible with the ETRTO rim diameter of your Vel wheels, this information can be found on the product page at **www.velbike.com**

Always follow the fitting instructions provided by the tyre manufacturer.

Ensure the tyre fits securely and cannot easily be fitted over the lip of the rim or removed by hand without the need for a tyre lever.

Do not use tyres that have been previously fitted to other wheel sets, as they could be stretched.

Do not use tyres that have any signs of damage, or tyres that have previously exploded off of a rim.

Ensure that the tyre manufacturer recommends the compatibility and fitting of their tyres to your Vel wheelset rim width, the rim internal and external diameters can be found on the specific product page information.

When setting up your Vel wheels as tubeless, only use tubeless/ready specific tyres.

Never use steel tyre levers on Vel alloy or carbon rims, as these can cause damage.

Always use a plastic tyre lever.

Inflation:

Never exceed the maximum pressure for your tyre or wheelset listed below:

- ♦ Alloy road clincher rim – 110 psi (7.6 bar) maximum.
- ♦ Alloy gravel clincher rim – 50 psi (3.4 bar) maximum.
- ♦ Carbon gravel/mountain clincher rim – 50 psi (3.4 bar) maximum.
- ♦ Carbon road clincher rims – 120 psi (8.3 bar) maximum.

Overinflation may damage the rim and tyre.

Warning: Do not inflate your tyres using a compressor, this could result in your tyre exploding.

Tyre sizes:

Maximum tyre size information is available on the specific product page for your wheel model at **www.velbike.com**

For further information, please contact us at **info@velbike.com**

Rim Tape:

Regularly inspect your rim tape for any visible damage such as nicks/cuts and depressions into the rim bed/spoke holes.

Replace tubeless tape every 6-8 months or sooner if it shows signs of deterioration or deformation.

Always replace with a tubeless tape that is designed to handle the pressures listed below:

- ♦ 120 psi (8.3 bar) for all road carbon wheels.
- ♦ 50 psi (3.4 bar) for all gravel carbon wheels.
- ♦ 110 psi (7.6 bar) for all road alloy wheels.
- ♦ 50 psi (3.4 bar) for all gravel alloy wheels.

Ensure the tubeless tape is the correct width for the internal diameter of the rim. Vel road wheelsets can be used with tubeless tape with widths ranging from 23-25mm and Vel gravel wheelsets ranging from 26-29mm.

It is advised that a double wrap of tubeless tape is used on all road and gravel models of Vel wheelsets.

It is advised that a single wrap of tubeless tape with 10cm overlap at the valve hole is used on all Vel MTB wheel options.

If in doubt contact us at **info@velbike.com** or consult your Vel dealer or a qualified cycle mechanic.

Thru-axles and quick releases.

Thru-axles:

Ensure that your frame and fork are compatible with thru-axles.

Only use provided Vel hub axle adapters with Vel RL and GRL wheels. They will have come equipped with 12mm hub adapters.

5mm quick release hub axle adapters and 15mm adapters (front only) are available separately, refer to the Vel wheel product information page for further details.

Vel RSL2 & GRSL2 wheels come equipped with DT Swiss 240 Ratchet EXP 12mm hub axle adapters.

DT Swiss 5mm quick release hub adapters are available separately.

Only use original DT Swiss spares.

Only use the thru-axles that have been authorised by your frame or fork manufacturer.

Before every ride ensure thru-axles are tightened to the required torque setting provided by the manufacturer.

Pull sharply on each wheel to check they are securely attached, there should be no movement between the wheel and the frame or fork.

Quick releases:

Ensure that your frame and fork are compatible with quick releases.

Never use tools to operate quick releases, this can add increased stress and damage the mechanism. Always close quick release levers by hand.

Open the quick release lever fully before fitting the wheels to your bike.

If the clamping force is not sufficient, open the lever and adjust the nut on the opposite side by turning it incrementally clockwise. Close the lever fully again.

If the lever is difficult to close the clamping force is too high. Re-open the lever, turn the nut incrementally anti-clockwise, close the lever fully again. The force required to do this should leave a slight temporary imprint on the palm of your hand.

Always ensure the lever is in the open position when making adjustments to tension. Only use the adjustment nut on the opposite side to make changes to clamping tension.

Ensure that the wheels are centred within the frame/fork and the levers are installed on the non drive-side, tightly closed and not facing forwards before use, they should not be “easy” to undo.

In the closed position the lever should not touch any other part of the bike.

Pull sharply on each wheel to check they are securely attached, there should be no movement between the wheel and the frame or fork.

Installation of freehubs and rotors.

For installation of freehub bodies and rotors to Vel wheels please refer to the manufacturers instructions to ensure correct and secure fitment.

Vel RL and GRL wheels come equipped with a Shimano 10/11 speed and Sram XDR 12 speed freehub bodies. Shimano Micro Spline 12 speed freehub bodies are available separately.

When installing a Vel freehub body ensure that is installed in an anti-clockwise direction to avoid damage to the seal.

Vel RSL2 and GRSL2 wheels come equipped with DT Swiss 240 Ratchet EXP hubs with Shimano 10/11 speed and Sram XDR 12 speed freehub bodies. Shimano Micro Spline 12 speed freehub bodies are available separately.

Refer to the product pages at **www.velbike.com** for additional information.

Using and caring for your Vel wheels.

Carbon rims are light and strong, but they require special care, servicing and the correct parts when performing servicing.

Do not clamp deeper section rims or disc wheels in a cycle rack, car carrier, or other mechanism. Do not hang the bicycle by deeper section rims or disc wheels. Such forces can damage a deeper section rim or a disc wheel.

Do not clean the rims with solvents, harsh chemicals, or abrasives, these can cause damage to the rims, which is not necessarily visible. Ideally use a solution of warm water and washing up detergent with a clean soft cloth.

Do not use a pressure washer to clean your wheels, this will cause damage and reduce the service life of bearings and seals substantially.

Do not expose Vel carbon wheels to high temperatures such as within enclosed spaces, for example a car in direct sunlight, as this can cause the rims to deform.

Do not leave/store Vel carbon wheels in direct sunlight as the UV light can cause epoxy resins in carbon fibre to degrade over time.

Inspection and maintenance.

Wear and tear of each individual component of your Vel wheels will occur under normal use and if not inspected and repaired/replaced there is a risk of components failing and causing serious or fatal injury. We advise you to inspect your wheels on a regular basis.

Before every ride:

Make sure your wheels are correctly attached to your bicycle. If using wheel quick-releases ensure these are correctly tightened and secure. For thru-axles, follow the information provided by the manufacturer of the thru-axle/fork. Make sure the wheels are straight and circular. Rotate the rim, if the rim appears to move up and down or side-to-side, have the wheel inspected at a Vel dealer or by a qualified cycle mechanic. Check that bearings are running smoothly, if there is significant resistance this is an indicator of excessive wear and the bearings need replacing. Only replace with the correct bearing type. This work should be carried out by a Vel dealer or by a qualified cycle mechanic.

Ensure your tyres are inflated to the manufacturers recommended pressure shown on the side wall of the tyre and do not exceed the following:

- ♦ Alloy road clincher rim – 110 psi (7.6 bar) maximum.
- ♦ Carbon gravel/mountain clincher rim – 50 psi (3.4 bar) maximum.
- ♦ Carbon road clincher rims – 120 psi (8.3 bar) maximum.

We advise you use a pressure gauge, hand/floor pump or Co2 for tyre inflation.

Examine your tyres for wear and other damage. Replace tyres if you can see a any part of the tyre casing through the tyre tread (contact surface), or if the inner tube is visible through any cuts or separations which go through the tyre.

Every week:

Inspect your wheels to ensure there are no loose, bent, worn, or broken spokes or nipples. If there is any visible damage have your Vel dealer or by a qualified cycle mechanic inspect and repair your wheels as appropriate.

Check to make sure the brake rotor attachment is tight:~

- ♦ Tighten rotor bolts to 45-55 Lb.in (5-6.2 Nm).
- ♦ Tighten the centerlock nut to 350 Lb.in (40.2 Nm).

Every month:

Examine your rims for any visible imperfections, damage or cracking, particularly the rim bed where the spokes are attached and the spoke nipples.

Every 100 hours/6 months of use:

Have your hubs serviced by an authorised Vel dealer or by a qualified cycle mechanic after 100 hours or 6 months of use. More frequent servicing may be required for wheels used in adverse weather conditions or under heavy usage.

After every wet ride:

Adverse weather conditions can increase the risk of corrosion, especially from road salt, ensure after every ride the wheels are washed, dried with a soft cloth and free from road grit and salt residue.

After an impact or crash:

Immediately stop using the bicycle, have your wheels inspected by a Vel dealer or qualified cycle mechanic. Carbon fibre can conceal damage from an impact or a crash, parts with damage can break suddenly.

Limited warranty.

Vel wheels come with a 2 year limited warranty for manufacturing or material defects that would appear during normal use, with the exception of wear and tear parts.

The limited warranty is extended to 3 years if registered within the first 3 months from purchase date at **www.velbike.com**

The limited warranty applies to the original owner only and cannot be transferred.

This limited warranty applies only against defects discovered within the warranty period and when a proof of purchase is presented.

The limited warranty does not cover:

Normal wear and tear of the components, which are considered to be tyres, inner tubes, rim tape, valves, freehub bodies, spokes, pawls, ratchets, bearings, seals and decals.

Damage caused by incorrect handling, storage or transporting the product.

Defects or damage caused by incorrect use or poor/lack of maintenance as outlined in these user instructions.

Damage caused by modifications, incorrect mounting and assembly of the product, or the assembly of parts that are not compatible with the wheel.

Damage due to non-compliance of the instructions in the owners manual.

Damage caused by:

- ♦ Torsional stress.
- ♦ Compression, crushing, falling or abnormal/heavy impact.
- ♦ Impact caused by sharp items.
- ♦ Application of an abnormal heat source.

Do not make changes to the wheelset.

If you make any changes to the wheelset, you will void the Vel manufacturer's limited warranty.

Do not install parts on this wheelset that do not have authorisation.

While the materials and workmanship of your Vel wheels may be covered by a limited warranty for the specified duration, this is not a guarantee that the product will last the full term of the warranty without failure.

This limited warranty is not meant to suggest that the wheel or components cannot be broken or will last forever. It only means that the product is covered subject to the terms of this warranty.

If you are in any doubt about how to use, assemble, maintain, repair or replace with original parts, please contact us at **info@velbike.com** or consult your approved Vel dealer or a qualified cycle mechanic.

Crash replacement policy.

Crashes, unexpected accidents and falls can happen under normal riding conditions, therefore if your product has been registered within 3 months of purchase at **www.velbike.com** we will offer to replace it with identical or equivalent product up to the 40% off the RRP within the first 3 years of ownership.

This crash replacement policy only applies to the original owner.

Vel wheels have been tested and conform to:

ISO

4210-2:2015

CPSC

1512.11:2021

Contact us @

info@velbike.com

IG @velbike

FB @velcycling

www.velbike.com