

OPERATING INSTRUCTIONS

RD-NXT AERA



OPERATING INSTRUCTIONS

We are delighted that you have chosen a wheelset from ONE-K Wheels. Our wheels are uncompromisingly lightweight and made from high-quality materials.

These operating instructions are designed to ensure the proper and safe use of this high-performance product. They include instructions for safe operation, technical information, maintenance, as well as cleaning, storage, and transportation of the wheels. You will also find our warranty provisions and crash replacement policy.

If a third party uses our product, they should also read these operating instructions. Therefore, keep the instructions for future use.

- Also, pay attention to the safety instructions of other components used together with the wheel (tires, brakes, etc.).
 - Note that improper use, faulty installation, and accidents can lead to component damage, which may result in a total failure.
 - Keep in mind that wheel assembly and maintenance require a basic knowledge of bicycle components. If in doubt, always contact your dealer.
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DANGER

DANGER

Possible damage due to hazardous impacts on product safety: Improper handling, maintenance, or care can lead to severe accidents with a risk to life and limb.



CAUTION

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Possible damage to the wheel: Incorrect component or tool selection can significantly affect the product quality and lifespan of the wheel.



SAFE OPERATION

PERMISSIBLE SYSTEM WEIGH

Ensure that the permissible system weight of the wheels is not exceeded. The system weight is calculated as the sum of all moving components (bicycle, rider, luggage, etc.).

The permissible system weights can be found in the data sheet.

INTENDED USE

The wheels may only be used for their intended purpose. Violation excludes any claims by the user against ONE-K Wheels.

Wheels of the RD-NXT series are designed for use on paved or asphalt roads.

FLAWLESS CONDITION

The wheels may only be used in a technically flawless condition. This includes, among other things, tire pressure, spoke tension, functionality of components, and their visual condition.

Minor visual changes on the long part of the spokes (e.g., individual loose fibers) are normal and not impairing.

- Ensure that no residue (oil, abrasion, etc.) affects the functioning of tires or brake discs.
- If the brake pads are worn out, they must be replaced with new ones to ensure proper functioning.
- Check the proper attachment of the wheels.
- Check the proper functioning of the rear wheel's freewheel mechanism before each ride.



DANGER

If there are damages such as cracks, broken spokes, severe abrasions of the spokes on the hub flange, or loose bearings, the wheels must not be used. Please contact your dealer or ONE-K Wheels.



TECHNICAL INFORMATION & MAINTENANCE

SPOKE SYSTEM



DANGER

The correct spoke tension is crucial for the safe operation of the wheels. To check the spoke tension, contact your dealer or ONE-K Wheels directly. Wheels with the ONE-K fiber spoke system can only be centered externally (without tires).

Too low or too high tensions can lead to the breakage or premature fatigue of the spoke and rim materials.

HUBS & BRAKES

All our wheels must be operated with disc brakes using a center lock disc brake. Always install the disc according to the respective manufacturer's specifications.

Unless otherwise specified, the center lock nut should be tightened to a maximum of 40 Nm.

Ensure that the disc brake has no axial play after tightening. If there is axial play, loosen

the center lock nut and reinstall it. If there is still axial play, please contact your authorized dealer or ONE-K Wheels.



Under no circumstances should you ride with a loose disc brake as it can lead to severe accidents.

DANGER

For the hubs of NON+ wheels, the freewheel bodies are made of aluminum. Therefore, it is possible for individual chainrings to embed or notch into the freewheel body. These notches on the cassette are not considered damages. You can use a file to remove the burrs from the notches. After this process, clean the freewheel body from any debris.



CAUTION

When installing the thru-axle, it is essential to adhere to the maximum tightening torque specified by the frame or fork manufacturer. Excessive torque can impair the hub's function, while insufficient torque poses a safety risk, as the wheel may not be adequately secured.

TIRES

All ONE-K wheels can be used tubeless or with an inner tube. We do not provide any warranty for the chosen system, as we cannot influence the mounted tire, inner tube, or the sealant used in tubeless setups. Nevertheless, we provide the following instructions:

- Make sure a tubeless tape is installed. Our wheels are delivered with a tubeless tape pre-installed.
- When using a tubeless tire, add the recommended amount of tubeless milk according to the tire manufacturer's instructions.
- When using an inner tube, install it according to the manufacturer's guidelines.
- Mount the tire onto the rim using an appropriate mounting fluid (e.g., soapy water) as per the manufacturer's instructions.
- Suitable valves are included with ONE-K Wheels. If using third-party valves, they must have the appropriate diameter and sufficient length.
- Inflate the tire to the maximum pressure specified by the tire manufacturer, taking into account the maximum allowable pressure of the rim.
- Verify that the tire is evenly seated on the rim. Adjust the pressure if necessary to achieve the desired operating pressure.



CAUTION

Do not use metal tire levers, as they could damage the rim's surface or the inner tube. To avoid damaging the spokes, do not support the tire levers against the spokes.



Please regularly check the sealant of the tires. If necessary, the tubeless milk can be refilled. Once a year, it should be removed, and the inside of the tire should be cleaned.



A worn-out tubeless tape can result in a sudden loss of tire pressure, which can lead to serious accidents.

DANGER

The wheelsets are approved for various tire dimensions. The maximum allowable tire pressure varies depending on the dimension. The supplied valves are designed according to the rim height.



Under no circumstances should the permissible tire pressure be exceeded. The pressure in the wheel increases significantly due to rolling resistance during riding and the ambient temperature.

DANGER

As a result, there can be a loss of spoke tension, which promotes premature fatigue of the spoke system. In the worst case, the tire can also burst and cause severe accidents.

MAINTENANCE INTERVALS

Interval	Component	Maintenance Measure	Notice
Before each ride	Wheelset	Visual inspection for hub play, unusual noises, or damage. Check axles and brake discs.	Ensure the wheel is properly secured and spins smoothly. If there is play or noise, do not continue using the wheel.
Before each ride	Hub	Clean the hub and remove any dirt. Run the wheel until dry, if necessary.	Do not use a pressure washer or aggressive cleaning agents.
regular maintenance Every 1.000 km	Screw connection	Check the torque of all screw connections.	Follow manufacturer's instructions. Observe maximum torque.
regular maintenance Every 5,000 km or annually	Freehub	Cleaning and lubrication of the freewheel mechanism with low-viscosity oil.	Do not use grease
regular maintenance Every 5,000 km or annually	Bearings	Cleaning and re-greasing	In rain, high humidity or dirt, wait more frequently.
annual maintenance Every 5,000 km or annually	Wheelset	Checking spoke tension and visual inspection for damage; runout check.	Use the ONE-K nipple holder for recentering.



CLEANING, STORAGE & TRANSPORT

CLEANING



Caution

The wheelsets can be cleaned with a soft cloth and water.

Do not use solvent-based cleaners (such as acetone or gasoline) as they can damage the materials.

Avoid using high-pressure or steam cleaners for cleaning your wheelsets to prevent damage to the bearings and spokes.

STORAGE



DANGER

The wheels should always be stored clean and dry. Water residues that can accumulate in the hubs from long rides in the rain can be blown out with an air pressure gun or removed by spinning the wheels quickly several times.

Both the spokes and rims of your ONE-K wheelset are made of fiber-reinforced composite (FRC). To avoid damage to the FRC, they should not be exposed to consistently high temperatures. Excessive heat (> 55°C) can permanently damage the composite. The spokes may experience a significant decrease in tension. Therefore, ensure that the wheelsets are not subjected to major heat sources such as open fire or extreme direct sunlight with high heat (e.g., behind glass windows).

Prolonged exposure to high levels of UV radiation reduces the lifespan of the fiber-reinforced composite. Hence, avoid storing the wheelsets in environments exposed to excessive UV light (e.g., direct sunlight).

TRANSPORT

The wheels can be damaged during transportation. Please consider the following instructions:



CAUTION

- Do not hang your bicycle by the wheels.
- Do not place any objects on the wheels.
- Avoid applying pressure to the rims or spokes.
- Pad the rims before attaching straps or ratchet systems.
- Maintain a sufficient distance from a vehicle's exhaust due to heat development. Consider using an exhaust extension if necessary.

WARRANTY

We have full confidence in the quality and durability of our products. In addition to the statutory warranty, we voluntarily offer you an extended 3-year warranty against all material and manufacturing defects. The warranty terms of the component manufacturers also apply.

- The warranty assumes that all components have been properly assembled and maintained.
- The wheel must not have been used with incompatible parts.
- The warranty does not cover improper use of the wheels (e.g., use on e-bikes without explicit approval).
- The warranty excludes purely cosmetic damage or surface alterations. Damage due to improper storage is also excluded.
- The warranty does not cover wear parts such as ball bearings, freehub bodies, components of the freehub system, and the tubeless tape.
- The warranty does not include conversion costs, freight, and customs charges.

ONE-K will repair the defective components at its own discretion. In the case of a replacement, it will be the same model. However, we reserve the right to replace the damaged item with an equivalent item. Your statutory warranty rights are not affected by this warranty.

CRASH REPLACEMENT

We understand that accidents can happen, even with our products. In the event of damage caused by accidents, whether caused by others or not, you can benefit from special favorable crash replacement conditions for 3 years. The option for crash replacement is available once for the original owner within a period of 3 years from the date of purchase.

- When taking advantage of the crash replacement, the damaged parts become the property of ONE-K Wheels. After our wheel experts assess the damage, we will provide you with a favorable repair offer.
- For damages to the spoke system, an approximate €150 deductible can be assumed as a guideline for replacement.
- For damages to the hub or rims, we offer you a discount of approximately 30% off the official list prices of the defective components.
- In the case of total damage, we offer you a discount (Year 1: 40% | Year 2: 30% | Year 3: 20%) on the same or an equivalent wheel from our range.

Procedure: First, you must report the damage using our contact form. Alternatively, send an email to service@one-k-wheels.com.

Then, you must submit the purchase receipt and a detailed damage report. Before shipping to us, please remove the tires, cassette, and brake disc. Please ensure that




the wheel is well packaged.

Upon receiving the wheel, we will analyze the damage and coordinate the next steps with you. Return shipping to you within the EU is free of charge.

DATA SHEET

	Road	Gravel	MTB	Rim material	size	Inner width (mm)	Outer width (mm)	Hookless (ja/nein)	Spoke count	Weight limit (kg)	Valve length (mm)	Brake standard	Axle standard	Brake mount	tires	Tire pressure (mm) / Max. Druck (bar)			
RD NXT AERA 35	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UD Carbon	700c / 29"	23	30	N	24	120	48	DISC	thru axle 12x100/ 12x142	Center Lock	Beaded tire, Tubeless (Clincher)	28 7 bar	29 - 32 6 bar	33 - 39 5 bar	40-50 4 bar
RD NXT AERA 50	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UD Carbon	700c / 29"	23	30	N	24	120	65	DISC	thru axle 12x100/ 12x142	Center Lock	Beaded tire, Tubeless (Clincher)	28 7 bar	29 - 32 6 bar	33 - 39 5 bar	40-50 4 bar



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