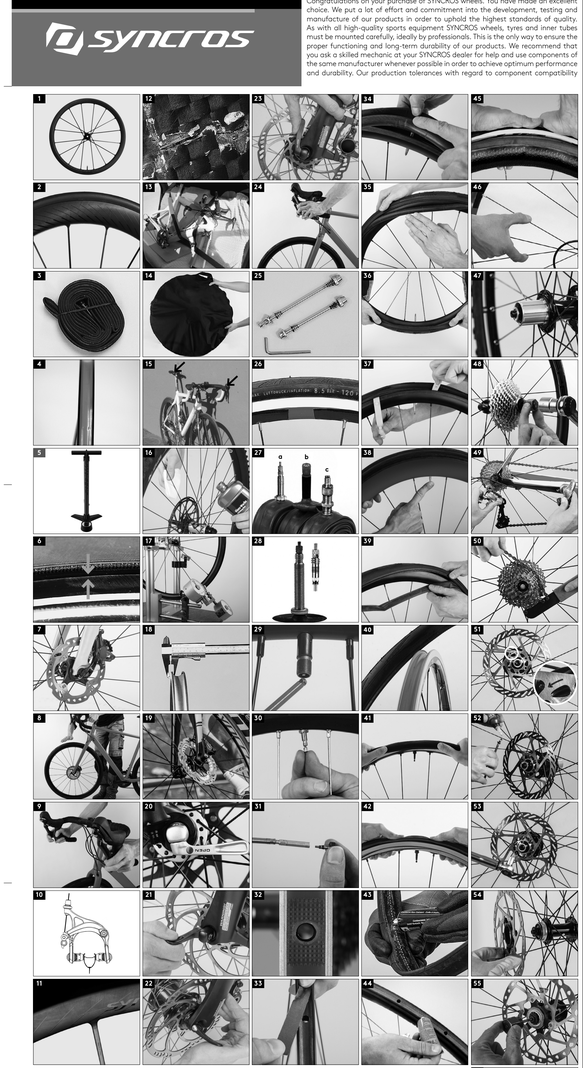
LANGUAGE

ENGLISH
GERMAN

SYNCROS wheels, quick-releases/ thru axles, tyres, inner tubes, rim tape and brake pads

ASSEMBLY AND USER GUIDE

/SYNCROS.COM



ENGLISH

NOTES ON THESE INSTRUCTIONS FOR USE AND MOUNTING

Pay particular attention to the following symbols:

⚠ WARNING

This symbol indicates a hazardous situation which could result in death or serious injury – if the relevant operational instructions are not followed or if the relevant protective measures are not taken.

⚠ CAUTION

This symbol indicates a hazardous situation which could result in minor or moderate injury – if the relevant operational instructions are not followed or if the relevant protective measures are not taken.

NOTICE

This symbol is used to address practices not related to physical injury – which may, however, result in damage to property and the environment.

SAFETY INSTRUCTIONS

This symbol indicates specific safety-related instructions or procedures about how to handle the product or refers to a section "in the instructions for use and mounting that deserves your particular attention.

The described possible consequences will not be repeated in the instructions for use and mounting every time one of the symbols appears.

GENERAL SAFETY INSTRUCTIONS

Congratulations on your purchase of SYNCROS wheels. You have made an excellent choice. We put a lot of effort and commitment into the development, testing and manufacture of our products in order to uphold the highest standards of quality. As with all high-quality sport equipment SYNCROS wheels, tyres and inner tubes must be mounted carefully, ideally by professionals. This is the only way to ensure the proper functioning and long-term durability of our products. We recommend that you ask a skilled mechanic at your SYNCROS dealer for help and use components of the same manufacturer whenever possible in order to achieve optimum performance and durability. Our production tolerances with regard to component compatibility are carefully monitored by quality inspections throughout the manufacturing process to ensure simple and reliable mounting.

These instructions for use and mounting contain important information on use, care, maintenance and mounting.

Read this manual carefully. Start with the general information and continue with the sections that will facilitate mounting and use.

There is a SYNCROS wheel card at the end of these instructions for use and mounting. It contains all important and safety-relevant information on your SYNCROS wheelset.

Keep these instructions in your records for future reference. If you sell or lend the bicycle or SYNCROS wheelset to another person, share these instructions with the new user.

SYNCROS wheels, quick-releases or thru axles, tyres and inner tubes require special care and attention like other lightweight components. They must be installed with care and used in accordance with their intended use. The materials used are partly extremely strong and durable, i.e. they withstand heavy loads with a very low dead weight of the components. These materials, however, can also break with the component maybe showing hardly any deformation prior to breaking. Overloads which may have occurred cannot be identified beforehand by clear bendings, although the component may have sustained damage. A component that was exposed to overload, e.g. as a result of an accident, has to be examined by professionals to ensure that any further use is absolutely safe. Therefore, seek expert advice from your SYNCROS dealer after any such incident.

SAFETY INSTRUCTIONS

- Keep these instructions for use and mounting in a safe place. If you sell or lend your SYNCROS wheelset or your bicycle to someone, share this manual with the new user.
- SYNCROS wheels, quick-releases/thru axles, tyres, inner tubes, rim tapes and brake pads are subject to permanent technical progress. You obtain the latest information from your SYNCROS dealer.

BEFORE YOUR FIRST RIDE – INTENDED USE

Note that each SYNCROS wheel **(1)** or each type of bicycle, each tyre **(2)** and each inner tube **(3)** is built for a specific intended purpose referred to as condition in the following. Use your SYNCROS wheels or your bicycle only in accordance with their intended use; otherwise the SYNCROS wheels or bicycle may not be able to withstand the loads to which they are subjected, potentially leading to failure and accidents - with unforeseeable consequences! Improper use will invalidate the warranty and the guarantee. If you have any questions, contact your SYNCROS dealer.

- In some cases, the permissible maximum weight of the entire bicycle can be limited further through the weight limits applicable to the SYNCROS wheels or imposed by other component manufacturers.
- Never modify your SYNCROS wheels, quick-releases or thru axles, rim tapes **(4)**, tyre equipment or brake pads. For example, do not file or drill any holes in components, as this would damage their structural integrity and invalidate their warranty.
- For your own safety, have your SYNCROS wheels, the tyre equipment etc. examined by your SYNCROS dealer after any impact loads such as an accident, crash or fall.
- If your SYNCROS wheel or one of your quick-releases or thru axles produce any cracking or cracking noises or show any external sign of damage, such as notches, cracks, dents, discolouations etc., do not use your bicycle any longer. Have your SYNCROS dealer check the damage thoroughly and replace components as necessary.
- If you want to know the condition of use which your SYNCROS wheels or bicycle belong to, have a look at your SYNCROS wheel card or ask your SYNCROS dealer.

Condition 1 SYNCROS wheels:

Condition 1 SYNCROS wheels and/or bicycles are intended for use on normal, paved surfaces, i.e. for asphalted or paved roads and cycle lanes, with the tyres designed to maintain contact with the ground at everyone speed. Steps or kerbs may only be ridden carefully up to a maximum height of 15 cm. The intended range of the average speed is between 15 and 25 km/h (9.3 and 15.5 mph). These wheels are not suitable for off-road, cyclo-cross or mountain bike use or jumps and competitive use of any kind whatsoever.

Condition 2 SYNCROS wheels:

Condition 2 SYNCROS wheels and/or bicycles are for use on normal, paved surfaces, i.e. for asphalted or paved roads and cycle lanes, as well as on unpaved roads and gravel paths of moderate grading. Under these conditions there may be contact with uneven terrain and loss of tyre contact with the ground may occur. Steps or kerbs (jumps/drops) may only be ridden carefully up to a maximum height of 15 cm. The intended range of the average speed is between 15 and 25 km/h (9.3 and 15.5 mph). These wheels are not suitable for off-road, cyclo-cross or mountain bike use or jumps and competitive use of any kind whatsoever.

Condition 3 SYNCROS wheels:

Condition 3 SYNCROS wheels and/or bicycles are designed for use on rough paths, uneven, unpaved roads as well as in difficult terrain and on undeveloped paths. Their use requires technical riding skills. Sporadic jumps/drops may be performed up to a height of 60 cm. In addition, they are intended for cross-country use and races on easy or intermediate to aggressive surfaces (e.g. hilly with small obstacles, such as roots, rocks, loose and hard surfaces as well as dents). Condition 3 SYNCROS wheels are, however, not suitable for use on blocked terrain, tricks, stair riding, etc., training and competitive use in the categories freeride, dirt, downhill as well as hardest freeriding, extreme downhill, dirt jump, slope style or very aggressive or extreme riding.

Condition 4 SYNCROS wheels:

Condition 4 SYNCROS wheels and/or bicycles are designed for use on rough paths, uneven, unpaved roads as well as in difficult, rough and partly blocked terrain and on undeveloped paths. Their use requires technical riding skills. Jumps/drops may be performed up to a height of 120 cm. In addition, they are intended for downhill rides on unpaved paths at speeds of less than 40 km/h (24.8 mph). Condition 4 SYNCROS wheels are, however, not suitable for regular and permanent use in bike parks, for training and competitive use in the categories freeride, dirt, downhill as well as hardest freeriding, extreme downhill, dirt jump, slope style or very aggressive or extreme riding.

Condition 5 SYNCROS wheels:

Condition 5 SYNCROS wheels and/or bicycles are suitable for extreme sports, i.e. jumps, jumps from obstacles (drops), high speeds or aggressive riding over rough surfaces or landing on uneven surfaces. Condition 5 SYNCROS wheels are designed for use on most challenging terrains, e.g. on North Shore trails, and for slope style, but only by highly skilled and experienced riders. Jumps/drops may also be performed above a height of 120 cm.

Condition 6 SYNCROS wheels:

Condition 6 SYNCROS wheels and/or bicycles are designed for riding exclusively on hard-surface paths and roads with asphalted or paved surface. The tyres must remain in constant contact with the ground. Steps or kerbs may only be ridden carefully up to a maximum height of 15 cm. Condition 6 SYNCROS wheels are intended for sports and competition rides under high exertion. The intended range of the average speed is between 30 and 50 km/h (18.6 and 31 mph). These wheels are not suitable for cross country use, jumps, slides, stair riding, stoppies, wheelies, tricks, etc., not for offroad and cyclo-cross use or for rides with luggage carriers or pannier bags!

⚠ WARNING

- If you want to use SYNCROS wheels or bicycles on public roads, these SYNCROS wheels or bicycles must be fitted with the prescribed equipment, such as side reflectors or reflector rings. Observe the traffic rules when riding on public roads. For more information see the chapter **"Legal requirements for riding on public roads"** in your general bicycle manual.
- For your own safety, do not overestimate your riding skills. Although they may look easy, some riding styles, tricks or shows performed by professional riders after years of training are hazardous to your life and limb. Always protect yourself with suitable clothing.

BEFORE EVERY RIDE

Check the SYNCROS wheels of your bicycle for the following points before starting your ride:

1. Do the tyres show external damage (cuts, cracks, dents, foreign objects)? Are both tyres sufficiently inflated? The minimum and maximum pressure (in bar or psi) is indicated on the tyre side. Check the air pressure by using a pump with a pressure gauge **(5)**. Check the proper seat of the tyre by means of the indicator line on the sidewall **(6)**. It should be at equal distance to the rim on either side. The tyres must be free of a lateral or radial runout. Make sure the inner tube is not pinched between tyre and rim and the valve is not in an oblique position. For more information see the section **"General information on tyre equipment"**.
2. Are the quick-releases, thru axles or axle bolts of the front and rear wheel properly closed **(7)**? For more information see the sections **"Mounting and removing SYNCROS wheels"** as well as the sections **"Secure attachment of your SYNCROS wheel with a typical quick-release"** and **"Secure attachment of your SYNCROS wheel with a thru axle"**.

⚠ WARNING

- Improperly closed quick-releases, thru axles or axle bolts can cause the SYNCROS wheels to come loose and result in serious accidents!
3. Spin both SYNCROS wheels **(8)** to check whether the rims are true. Watch the gap between brake pad and rim or, if your bicycle has disc brakes, between frame and rim or tyre. If the SYNCROS wheels are out of true, this could be a sign that the tyres have a ruptured sidewall, that the axle is broken, the rim damaged or one of the spokes torn. If the gap between the brake pad and the rim on the left side is not the same as on the right side, either the brake or the SYNCROS wheel is not properly centred.
4. Test the brakes by firmly pulling the brake levers towards the handlebar as the bicycle is standing **(9)**.

The brakes should give you a stable pressure point at once. If you have to actuate the brake lever more than once to get a positive braking response, have the bicycle checked by your SYNCROS dealer. You should not be able to pull the lever all the way to the handlebar. If your bicycle has hydraulic brakes, check the hydraulic brake hoses for oil or brake fluid leaks! Also check the thickness of the brake pads.

The brake pads of **rim brakes** must hit the rim sides evenly with their entire surface. They may never touch the tyre during braking, while released or in between. You should not be able to pull the lever all the way to the handlebar. If your bicycle has hydraulic brakes, check the hydraulic brake hoses for oil leaks! Also check the thickness of the brake pads.

⚠ WARNING

- Note that the braking power and the road grip of your tyres are both significantly reduced in wet conditions. When riding on a wet tame or a wet surface, be particularly cautious and lower your speed compared with dry conditions.
- If you use rim brakes, persistent braking while dragging the brake pads continuously can cause high temperatures, which may result in the inner tube filling without warning. In the case of disc brakes, braking performance could be severely reduced. Both can lead to a severe accident. Therefore, make it a rule to use both brakes for deceleration when riding downhill. This will distribute the heat generated by the brake onto both rims or rotors. Brake when approaching corners and release the brakes for as possible. Roll on subsequently without braking. If the road allows. This kind of pulsating braking gives the rims or the brake system the chance to cool down to some degree in the airstream.
- Where a long steep downhill ride comprises a brake pad rub persistently for a longer period of time, we recommend stopping from time to time in order to let the rims or brakes cool down to some degree.
- For road racing bikes there are more and more closed rim profiles made of aluminium or carbon available without spoke holes in the rim base. Some cyclists try to do without the rim tape in order to save weight. The problem with this approach is that without rim tape the heat generated by the brake pads affects the tyre equipment directly and the inner tube can burst. This may result in a fall with unforeseeable consequences for life and limb. Excepted from this are tubeless tyres used in conjunction with UST rims.
- Latex tubes as well as lightweight tubes weighing less than 65 grams for road racing bikes and 120 grams for mountain bikes, are particularly prone to failure. Risk of an accident! A heavier inner tube means more safety. Excepted from this are tubeless tyres used in conjunction with UST rims.
- After replacing the cassette sprocket or the SYNCROS wheel or mounting the rear wheel for the first time onto your bicycle you need to check the functioning of the gears **(48)**. Make sure the limit stops are properly adjusted. If not adjusted properly, they can make the drivetrain fail or the rear derailleur collide with the spokes. This can result in an accident and damage to your bicycle! Read the instructions in your general bicycle user manual or contact your SYNCROS dealer.

SAFETY INSTRUCTIONS

- The brake pads must hit the rim simultaneously, first touching it with the front portion of their surface. At the moment of first contact the rear part of the pads should be a millimetre away from the braking surface. Viewed from the top the brake pads form a "V" with the trough pointing to the front **(10)**. This setting is to prevent the brake pads from screeching when applied.
- For more information, see your general bicycle manual.

SPECIAL CHARACTERISTICS OF CARBON

All products made of carbon fibre-reinforced resin **(11)** (also referred to as carbon or CFR in short) have some special characteristics which must be taken into account.

Carbon is an extremely strong material which allows producing components of high strength and low weight. When used in a typical and reasonable riding scenario in accordance with its respective condition of use, the resistance it offers equals or even exceeds that of aluminium or steel. However, it should be noted that contact carbon, unlike metals, does not show visible deformation after undue stress, even as its internal fibre structure may already be damaged. In further use, a carbon component that was damaged previously in an overload event may fail just like a component made of metal would, potentially resulting in a fall with unforeseeable consequences.

If your carbon component was exposed to a high load, we strongly recommend that you take the component, or ideally even your complete bicycle, to your SYNCROS dealer for inspection. They will check the damaged SYNCROS wheel or the entire bicycle and replace defective components as necessary **(12)**.

For safety reasons, damaged components made of carbon must never be fixed or repaired! Damaged components must be replaced at once! Prevent further use by taking appropriate measures, i.e. saw the component into pieces.

Components made of carbon must never and under no circumstances be exposed to excessive heat. Therefore, never have the components enamelled or powder-coated. The temperatures required for enamelling or powder-coating could destroy the component. Do not leave carbon fibre components near a source of heat or in a car **(13)** or boot during hot or sunny weather.

Protect your SYNCROS wheels or your bicycle when transporting them in the boot or on the back seat of your car. Blankets, foam tubes or the like are a suitable padding to protect the sensitive material from damage. Pack the SYNCROS wheels (in particular SYNCROS carbon wheels) in special wheel bags **(14)** to protect them from damage.

Always park your bicycle carefully and make sure it does not topple over **(15)**. SYNCROS carbon wheels, frames and components may already sustain damage by simply toppling over, thereby hitting e.g. a sharp edge.

If your SYNCROS wheels or other components of your bicycle made of carbon produce any cracking or cracking noises or show any external sign of damage, such as notches, cracks, deformations, dents or discolouations etc., do not use the SYNCROS wheels or the bicycle until the components were replaced. If the component was subjected to a high load, an accident or heavy impact, have it replaced or examined by your SYNCROS dealer before using it again.

Keep in mind that rims with brake surfaces made of carbon require specific brake pads. We strongly recommend that you use our type and brand of brake pads as fitted in our series production. If this is not observed, we cannot guarantee for the proper function of the SYNCROS wheels and the warranty will be invalidated.

⚠ WARNING

- Take time to become familiar with the braking behaviour of carbon rims in combination with rim brakes. Using the front wheel brake without care can result in a fall. Before you set off for your first ride, take your bicycle to an area free of traffic and test the brakes to standstill.
- The disadvantage of carbon as a rim material is its poor heat conductivity. With rim brakes, the heat building up when braking may result in excessive thermal load acting on inner tubes and tyres. This may lead to a sudden failure of the inner tube. Risk of an accident! Therefore, apply the brakes as described in the sections **"Before your first ride – Intended use"** and **"General information on braking"**.

CLEANING AND CARE

Clean your tyres and SYNCROS wheels with water and a soft cloth at regular intervals. If necessary, use a non-abrasive soap to remove grime. You may add a little washing-up liquid for cleaning and removing tough stains, such as oil or grease, from hard surfaces. Do not use degreasing agents, which contain organic solvents (e.g. acetone, trichloroethylene, etc.), as they may damage stickers, the finish or substructure of the material.

While cleaning **(16)**, look for cracks and scratches as well as bent or discoloured components. In case of doubt, contact your SYNCROS dealer. Have any damaged parts replaced at once.

Also check the tyres for possible damage and foreign objects lodged inside them. Remove any such objects.

⚠ WARNING

- Make absolutely sure to keep the brake surfaces or rotors free of care products, grease or oil. Otherwise the braking performance may be drastically reduced or the brakes may even become completely ineffective.

Do not store your SYNCROS wheels and the tyres in the blazing sun or near sources of heat. When storing your bicycle for the winter period, make sure the tyres always have enough pressure or hang the SYNCROS wheels or the entire bicycle.

Check the tyre pressure at regular intervals and observe the indications on the tyre sidewall.

NOTICE

- Never use solvents or aggressive agents, such as acetone, benzine, thinners etc., to clean your SYNCROS wheels and tyres.

MAINTENANCE

After the first 100-300 kilometres of riding, check the rims for unbalances, check the bolts of the cassette sprocket and the play of the bearings. If necessary, have the SYNCROS wheels trued **(17)** and/or the bearings readjusted. Check at least every 2,000 kilometres thereafter. Note that trueing SYNCROS wheels and adjusting bearings are jobs for skilled mechanics. It is recommended that you ask your SYNCROS dealer to perform these jobs.

After about three years, the tyres and inner tubes have aged to such an extent that they need to be checked thoroughly and may have to be replaced. Ask your SYNCROS dealer for advice.

If your bicycle has rim brakes, have the thickness of the rim sides measured after replacing the second set of brake pads at the latest **(18)**. Replace aluminium rims with a thickness found to be less than 1 mm! If you have carbon rims have a look at the SYNCROS wheel card or contact your SYNCROS dealer.

NOTICE

- The hubs rotate on sealed bearings. Replacing the bearings requires a certain amount experience and should therefore be left to your SYNCROS dealer.
- Due to the sealing and lubrication the bearings may be a little stiff at the beginning. This will improve after a short run-in time.

SAFETY INSTRUCTIONS

- Check the functioning of the freewheel mechanism at regular intervals and make sure the sprockets run true. For more information see the operating instructions of the hub manufacturer.
- For more information on maintaining the bearings and adjusting the bearing play, read the instructions of the hub manufacturer or contact your SYNCROS dealer.

GENERAL NOTES ON MOUNTING

In general, first-time wheel and tyre mounting as well as brake pad replacement are jobs for skilled mechanics and should only be performed by your SYNCROS dealer.

Each of the following instructions must be followed strictly. Failure to observe these instructions can lead to component failure, resulting in a serious fall or injuries.

Mounting non-matching components can result in severely reduced function, in the failure of individual components and consequently in a severe fall. We recommend that you use series SYNCROS wheels and series brake pads together, as they are designed to fit and function as an integrated system.

We do not assume responsibility for problems resulting from a component being used in conjunction with incompatible components from another manufacturer. Ask your SYNCROS dealer for advice on such a scenario.

Be sure to check the dimensional accuracy of tyres and rims before mounting. If in doubt, ask your SYNCROS dealer to check the components. They will find out if the fault can be remedied or if the component has to be replaced.

⚠ WARNING

- Spin both SYNCROS wheels to check whether they run true. In doing so watch the gap between brake pad and rim. Out of round rims can be an indication of tyres with cracked sides, broken axles or torn spokes.
- Do not use further damaged SYNCROS wheels or components! If you have the slightest doubt, we recommend that you replace the component. Do not use your bicycle until this has been done.
- Check the firm attachment of the SYNCROS wheels after 100 to 300 kilometres or after 5 to 15 hours of use and then every 20 hours of use. Improperly mounted SYNCROS wheels may throw you off your bicycle or result in serious accidents!

If you want to replace a tyre, you need to know the dimensions of the old tyre, which are marked on the side of the tyre. There are two designations, the more precise of which is a standardised indication in millimetres. For instance, the widespread size 25-622 means that the tyre is 25 mm wide when fully inflated and has an (inner) diameter of 622 millimetres. The other designation for the same tyre is indicated in inches and reads 28 x 1.0.

Strictly observe the specifications of the following ETRTO table.

Important: Check the link below for up-to-date compatibility on all new Syncros wheels.
https://rb.gy/6pc97m

Nominal tyre width (mm)	Rim width, well-base rim (mm)				Rim width, hooked-beads rim (mm)			
18					13 C			
20					13 C			
23	16				13 C	15 C		
25	16	18			13 C	15 C	17 C	
28	16	18	20		15 C	17 C	19 C	
32	16	18	20		15 C	17 C	19 C	
37	18	20	22		17 C	19 C	21 C	
40	20	22	24		19 C	21 C	23 C	
44	20	22	24	27	19 C	21 C	23 C	25 C
47	22	24	27		19 C	21 C	23 C	25 C
50	24	27	30.5		21 C	23 C	25 C	
54	27	30.5			25 C			
57	27	30.5			25 C			
62	27	30.5						

Table: ETRTO

⚠ WARNING

- Mounting a wider tyre than intended may result in the tread dragging along the frame or fork. In extreme cases, the SYNCROS wheel no longer spins freely and locks up – potentially resulting in an accident. Check if the tyre touches the mudguard, frame or fork when turning. Ask your SYNCROS dealer for advice.
- Note that under extreme conditions a wide tyre mounted on a too narrow rim can make the tyre slip off the rim whilst riding. Risk of an accident! Ask your SYNCROS dealer for advice.
- Tyres bigger than the series production tyres mounted by the bicycle manufacturer can result in a toe overlap when riding through corners at low speed. In the case of suspension forks bigger tyres may even result in a blocked front wheel during compression. Risk of an accident! Ask your SYNCROS dealer for advice.

Mounting and removing SYNCROS wheels

Before mounting or removing the front or rear wheel, read your general bicycle user manual.

Keep in mind that there are various quick-release systems **(19)** and also a number of thru axles that require specific knowledge on how to use them. In some cases, you may also need specific tools.

Secure attachment of your SYNCROS wheel with a typical quick-release

Hold the bicycle tight so that it does not topple over.

Open the quick-release. The marking "Open" on the lever should be visible now **(20)**.

Make sure the SYNCROS wheel is in the proper position. For more information see the chapter **"SYNCROS wheels and tyre equipment"** and **"Adjusting the bicycle to the rider"** in your general bicycle user manual.

Move the lever back, as if to close it. Now you should be able to read "Close" on the outside of the lever. When you start closing the lever you should feel virtually no resistance with your hand until the lever is at right angle to the frame/fork **(21)**.

Over the second half of its travel the resistance you feel should increase significantly. Towards the end of its travel you should need very much strength to close the lever. Use the ball of your thumb to push it in all the way while your fingers pull on an opposite part, such as the fork **(22)** or the rear stay, the rim or the axle nut.

In its end position, the lever should be at a right angle to the quick-release axle, i.e. it should not stand out. The lever should lie close to the frame or the fork so that it does not open accidentally **(23)**. Make sure, however, the lever is easy to grasp for an actually quick use.

To check whether the lever is securely locked apply pressure to the end of the hand lever and try to turn it while it is closed. If you can turn the lever around, open it and increase the preload. Screw the tightening nut on the opposite side clockwise by half a turn. Close the quick-release lever and check it again for tightness.

Finally lift the bicycle a few centimetres so that the SYNCROS wheel no longer touches the ground and hit the tyre from above. A securely fastened wheel remains in the axle and may make the fork and wheel not rattle.

Secure attachment of your SYNCROS wheel with a thru axle

There are many different thru-axle systems. Read the instructions of the bicycle manufacturer or ask your SYNCROS dealer to explain how the system works.

⚠ WARNING

- With an insufficiently closed quick-release or thru axle the SYNCROS wheel can come loose. Never ride a bicycle without having checked first whether the SYNCROS wheels are securely fastened **(8)**. Imminent risk of an accident!
- When mounting thru axles, never use other tools than those recommended by the manufacturer. Do not exceed the maximum torque value indicated by the manufacturer! If the axle is overtightened, this can damage the axle, fork or frame. Always use a torque wrench where possible.
- After mounting the SYNCROS wheel, do a brake test **(24)** at standstill as described in the section **"Before every ride"**. Pull the brake lever (in the case of disc brakes several times). To do so lift the bicycle off the ground and spin the SYNCROS wheel with your hand. With the SYNCROS wheel spinning the rotor should not drag along the brake calliper or the brake pads and the rim should keep off the (rim) brake pads. You should reach the pressure point of the brake before the brake lever reaches the handlebar.
- Spin both SYNCROS wheels to check whether they run true. Watch the gap between brake pad and rim (in the case of rim brakes) or between fork and frame (in the case of disc brakes). Out of round rims can be an indication of tyres with cracked sides, broken axles or torn spokes.
- After replacing a cassette sprocket or the SYNCROS wheel or mounting the rear wheel for the first time onto your bicycle you need to check the functioning of the gears. Make sure the limit stops are properly adjusted. If not adjusted properly, they can make the drivetrain fail or the rear derailleur collide with the spokes. This can result in an accident and damage to your bicycle! Read the instructions in your general bicycle user manual or contact your SYNCROS dealer.

⚠ CAUTION

- Do not touch the rotor directly after stopping – the rotor may be hot and you may burn your fingers! Always let the rotor cool down before opening a quick-release or a thru axle.

NOTICE

- If your SYNCROS wheels have quick-releases or thru axles, lock them to an immovable object together with the frame when you park the bicycle.
- To be on the safe side you can have the quick-releases replaced by special locks. They can only be opened and closed with a special, coded key or an Allen key **(25)**. If you have any questions, contact your SYNCROS dealer.

SAFETY INSTRUCTIONS

- Manufacturers of thru-axle systems, suspension forks or frames typically deliver detailed operating instructions with their products. Read these instructions carefully before removing the SYNCROS wheel or doing any maintenance work.

SAFETY INSTRUCTIONS

- Check the functioning of the freewheel mechanism at regular intervals and make sure the sprockets run true. For more information see the operating instructions of the hub manufacturer.
- For more information on maintaining the bearings and adjusting the bearing play, read the instructions of the hub manufacturer or contact your SYNCROS dealer.

GENERAL NOTES ON MOUNTING

In general, first-time wheel and tyre mounting as well as brake pad replacement are jobs for skilled mechanics and should only be performed by your SYNCROS dealer.

Each of the following instructions must be followed strictly. Failure to observe these instructions can lead to component failure, resulting in a serious fall or injuries.

Mounting non-matching components can result in severely reduced function, in the failure of individual components and consequently in a severe fall. We recommend that you use series SYNCROS wheels and series brake pads together, as they are designed to fit and function as an integrated system.

We do not assume responsibility for problems resulting from a component being used in conjunction with incompatible components from another manufacturer. Ask your SYNCROS dealer for advice on such a scenario.

Be sure to check the dimensional accuracy of tyres and rims before mounting. If in doubt, ask your SYNCROS dealer to check the components. They will find out if the fault can be remedied or if the component has to be replaced.

⚠ WARNING

- Spin both SYNCROS wheels to check whether they run true. In doing so watch the gap between brake pad and rim. Out of round rims can be an indication of tyres with cracked sides, broken axles or torn spokes.
- Do not use further damaged SYNCROS wheels or components! If you have the slightest doubt, we recommend that you replace the component. Do not use your bicycle until this has been done.
- Check the firm attachment of the SYNCROS wheels after 100 to 300 kilometres or after 5 to 15 hours of use and then every 20 hours of use. Improperly mounted SYNCROS wheels may throw you off your bicycle or result in serious accidents!

If you want to replace a tyre, you need to know the dimensions of the old tyre, which are marked on the side of the tyre. There are two designations, the more precise of which is a standardised indication in millimetres. For instance, the widespread size 25-622 means that the tyre is 25 mm wide when fully inflated and has an (inner) diameter of 622 millimetres. The other designation for the same tyre is indicated in inches and reads 28 x 1.0.

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28	16	18	20		15 C	17 C	19 C	
32	16	18	20		15 C	17 C	19 C	
37	18	20	22		17 C	19 C	21 C	
40	20	22	24		19 C	21 C	23 C	
44	20	22	24	27	19 C	21 C	23 C	25 C
47	22	24	27		19 C	21 C	23 C	25 C
50	24	27	30.5		21 C	23 C	25 C	
54	27	30.5			25 C			
57	27	30.5			25 C			
62	27	30.5						

Table: ETRTO

⚠ WARNING

- Mounting a wider tyre than intended may result in the tread dragging along the frame or fork. In extreme cases, the SYNCROS wheel no longer spins freely and locks up – potentially resulting in an accident. Check if the tyre touches the mudguard, frame or fork when turning. Ask your SYNCROS dealer for advice.
- Note that under extreme conditions a wide tyre mounted on a too narrow rim can make the tyre slip off the rim whilst riding. Risk of an accident! Ask your SYNCROS dealer for advice.
- Tyres bigger than the series production tyres mounted by the bicycle manufacturer can result in a toe overlap when riding through corners at low speed. In the case of suspension forks bigger tyres may even result in a blocked front wheel during compression. Risk of an accident! Ask your SYNCROS dealer for advice.

Mounting and removing SYNCROS wheels

Before mounting or removing the front or rear wheel, read your general bicycle user manual.

Keep in mind that there are various quick-release systems **(19)** and also a number of thru axles that require specific knowledge on how to use them. In some cases, you may also need specific tools.

Secure attachment of your SYNCROS wheel with a typical quick-release

Hold the bicycle tight so that it does not topple over.

Open the quick-release. The marking "Open" on the lever should be visible now **(20)**.

Make sure the SYNCROS wheel is in the proper position. For more information see the chapter **"SYNCROS wheels and tyre equipment"** and **"Adjusting the bicycle to the rider"** in your general bicycle user manual.

Move the lever back, as if to close it. Now you should be able to read "Close" on the outside of the lever. When you start closing the lever you should feel virtually no resistance with your hand until the lever is at right angle to the frame/fork **(21)**.

Over the second half of its travel the resistance you feel should increase significantly. Towards the end of its travel you should need very much strength to close the lever. Use the ball of your thumb to push it in all the way while your fingers pull on an opposite part, such as the fork **(22)** or the rear stay, the rim or the axle nut.

In its end position, the lever should be at a right angle to the quick-release axle, i.e. it should not stand out. The lever should lie close to the frame or the fork so that it does not open accidentally **(23)**. Make sure, however, the lever is easy to grasp for an actually quick use.

To check whether the lever is securely locked apply pressure to the end of the hand lever and try to turn it while it is closed. If you can turn the lever around, open it and increase the preload. Screw the tightening nut on the opposite side clockwise by half a turn. Close the quick-release lever and check it again for tightness.

Finally lift the bicycle a few centimetres so that the SYNCROS wheel no longer touches the ground and hit the tyre from above. A securely fastened wheel remains in the axle and may make the fork and wheel not rattle.

Secure attachment of your SYNCROS wheel with a thru axle

There are many different thru-axle systems. Read the instructions of the bicycle manufacturer or ask your SYNCROS dealer to explain how the system works.

⚠ WARNING

- With an insufficiently closed quick-release or thru axle the SYNCROS wheel can come loose. Never ride a bicycle without having checked first whether the SYNCROS wheels are securely fastened **(8)**. Imminent risk of an accident!
- When mounting thru axles, never use other tools than those recommended by the manufacturer. Do not exceed the maximum torque value indicated by the manufacturer! If the axle is overtightened, this can damage the axle, fork or frame. Always use a torque wrench where possible.
- After mounting the SYNCROS wheel, do a brake test **(24)** at standstill as described in the section **"Before every ride"**. Pull the brake lever (in the case of disc brakes several times). To do so lift the bicycle off the ground and spin the SYNCROS wheel with your hand. With the SYNCROS wheel spinning the rotor should not drag along the brake calliper or the brake pads and the rim should keep off the (rim) brake pads. You should reach the pressure point of the brake before the brake lever reaches the handlebar.
- Spin both SYNCROS wheels to check whether they run true. Watch the gap between brake pad and rim (in the case of rim brakes) or between fork and frame (in the case of disc brakes). Out of round rims can be an indication of tyres with cracked sides, broken axles or torn spokes.
- After replacing a cassette sprocket or the SYNCROS wheel or mounting the rear wheel for the first time onto your bicycle you need to check the functioning of the gears. Make sure the limit stops are properly adjusted. If not adjusted properly, they can make the drivetrain fail or the rear derailleur collide with the spokes. This can result in an accident and damage to your bicycle! Read the instructions in your general bicycle user manual or contact your SYNCROS dealer.

⚠ CAUTION

- Do not touch the rotor directly after stopping – the rotor may be hot and you may burn your fingers! Always let the rotor cool down before opening a quick-release or a thru axle.

NOTICE

- If your SYNCROS wheels have quick-releases or thru axles, lock them to an immovable object together with the frame when you park the bicycle.
- To be on the safe side you can have the quick-releases replaced by special locks. They can only be opened and closed with a special, coded key or an Allen key **(25)**. If you have any questions, contact your SYNCROS dealer.

SAFETY INSTRUCTIONS

- Manufacturers of thru-axle systems, suspension forks or frames typically deliver detailed operating instructions with their products. Read these instructions carefully before removing the SYNCROS wheel or doing any maintenance work.

GENERAL INFORMATION ON TYRE EQUIPMENT

Tyres have to be inflated to the correct air pressure in order to work properly. The air pressure range (minimum and maximum permissible pressure) is indicated on the tyre sidewall, on the type label and in the SYNCROS wheel card. The minimum pressure specification means maximum cushioning and traction and is therefore best for offroad cycling (provided that this is permitted for your SYNCROS wheelset, see the section **"Before your first ride – Intended use"**). On smooth surfaces, rolling resistance decreases as the tyre pressure increases, but so do comfort and tyre grip.

⚠ WARNING

- The minimum and maximum pressures (in bar or psi) are indicated on the tyre sidewall **(26)**, in the SYNCROS wheel card and/or on the decals on the rim. Observe the prescribed pressure specifications. If the values given for the same tyre differ from each other, the higher value applies for the minimum pressure and the lower value applies for the maximum pressure. Otherwise the rim could sustain damage or even fail. This can result in a sudden loss of control. Risk of accident!

Inflation pressure is often given in imperial units, i.e. in psi (pound per square inch). For the most common pressure values in terms of both systems, see the following table.

psi	bar	psi	bar	psi	bar	psi	bar
10	0.7	50	3.5	90	6.2	130	9.0
20	1.4	60	4.2	100	6.9	140	9.7
30	2.1	70	4.8	110	7.6		
40	2.8	80	5.5	120	8.3		

Note that the rider's weight is also relevant for the pressure. Lightweight riders need less pressure, whereas heavy riders need more. The maximum pressure specification, however, must not be exceeded, even by heavy riders.

⚠ WARNING

- Treat your tyres well and do not ride over sharp edges! Make sure not to exceed the maximum permissible pressure when inflating your tyre! It might come off the rim or burst during the ride.

NOTICE

- Riding with insufficient pressure can lead to pinch flats, also referred to as snake bites, resulting in a damaged inner tube and/or tyre and rim.

SAFETY INSTRUCTIONS

- Hand pumps are often unsuitable to inflate tyres to high pressures. Use them only when a tyre puncture occurs during a ride. Better suited are floor or foot pumps with a pressure gauge **(5)** which enable you to check the pressure at home.

Tyres

The tyres should provide grip and traction. At the same time, they should run smoothly and absorb minor shocks from the road surface. Both the rolling friction and the grip depend on the nature of the tyre carcass, the rubber compound and the tyre tread. Your SYNCROS dealer will help you choose from the various available types of tyre.

When choosing a tyre, keep in mind that the rim size determines the tyre dimensions. The size of the tyre is indicated on its sidewall.

Use the tyre only according to its intended use. Otherwise it is likely to wear out or fail fairly quickly. Also observe the indications on the different intended purposes in the catalogue of your tyre manufacturer and ask your SYNCROS dealer if in doubt.

CONVENTIONAL TYRE EQUIPMENT: FOLDING OR CLINCHER TYRES USED WITH INNER TUBES AND RIM TAPE

Inner tubes

Clincher tyres (foldable or non-foldable) on the rim are not able to hold the air on their own. To maintain the pressure inside, an inner tube **(3)**

DEUTSCH

GEBRAUCHS- UND MONTAGEANLEITUNG FÜR SYNCROS-LAUFRÄDER, SCHNELLSPANNER/ STECKACHSEN, REIFEN, SCHLÄUCHE, FELGENBAND UND BREMSBELÄGE

Wichtige Informationen zur Montage, Benutzung, Pflege und Wartung

Hinweise zu dieser Gebrauchs- und Montageanleitung

Beachten Sie besonders folgende Symbole:

⚠ WARNUNG

Dieses Symbol weist Sie auf eine gefährliche Situation hin, die schwere Verletzungen bis zum Tod nach sich ziehen kann – wenn entsprechende Vorsichtsmaßnahmen nicht nachgekommen wird bzw. wenn entsprechende Vorsichtsmaßnahmen nicht getroffen werden.

⚠ VORSICHT

Dieses Symbol weist Sie auf eine gefährliche Situation hin, die leichte bis mäßige Verletzungen nach sich ziehen kann – wenn entsprechenden Handlungsaufforderungen nicht nachgekommen wird bzw. wenn entsprechende Vorsichtsmaßnahmen nicht getroffen werden.

HINWEIS

Dieses Symbol warnt Sie vor Fehlverhalten, das nicht im Zusammenhang mit körperlichen Verletzungen steht – aber Sach- und Umweltschäden zur Folge hat.

SICHERHEITS-INSTRUKTION

Dieses Symbol gibt spezifische sicherheitsrelevante Anweisungen und Informationen über den Handhabung des Produkts oder den jeweiligen Teil der Gebrauchs- und Montageanleitung, auf die besonders aufmerksam gemacht werden soll.

Die geschilderten möglichen Konsequenzen werden in der Gebrauchs- und Montageanleitung nicht immer wieder beschrieben, wenn diese Symbole auftauchen.

ALLGEMEINE SICHERHEITSHINWEISE

Wir gratulieren Ihnen zum Kauf von SYNCROS-Laufrädern. Sie haben eine sehr gute Wahl getroffen. Wir entwickeln, testen und produzieren unsere Produkte so, dass sie den höchstmöglichen Produktionsstandard aufrechtzuerhalten. Wie alle hochwertigen Sportgeräte müssen auch SYNCROS-Laufräder, Reifen und Schläuche sorgfältig, am besten durch Fachleute, montiert werden. Nur so kann eine optimale Funktion und Haltbarkeit über lange Zeit garantiert werden. Wir empfehlen Ihnen, sich von einem erfahrenen Mechaniker in Ihrem SYNCROS-Fachgeschäft helfen zu lassen und wann immer möglich Teile des gleichen Herstellers untereinander zu verwenden, um optimale Funktion und Belastbarkeit zu garantieren. Unsere Fertigungstoleranzen für die Komponenten werden gemäß dem Bestimmungszweck, sowohl bei einer Montage während der Produktion durch Qualitätskontrollen sorgfältig überwacht.

Diese Gebrauchs- und Montageanleitung enthält wichtige Hinweise über Nutzung, Pflege, Wartung und Montage. Lesen Sie diese Anleitung sorgfältig durch. Beginnen Sie mit den allgemeinen Informationen, anschließend die Kapitel, die Ihnen die Montage und den Gebrauch erleichtern.

Am Ende dieser Gebrauchs- und Montageanleitung finden Sie den SYNCROS-Laufradpass, dem Sie alle wichtigen und sicherheitsrelevanten Angaben zu Ihrem SYNCROS-Laufradsatz entnehmen können.

Bewahren Sie diese Anleitung gut auf. Wenn Sie das Fahrrad oder den SYNCROS-Laufradsatz verkaufen, verleihen oder schenken, gibt Sie sie an den neuen Besitzer weiter.

Bei SYNCROS-Laufrädern, Schnellspannern oder Steckachsen, Reifen und Schläuchen müssen, wie bei allen Leichtbauteilen, einige Besonderheiten beachtet werden. Sie müssen sorgfältig montiert und bestimmungsgemäß eingesetzt werden. Die verwendeten Werkstoffe sind teils sehr fest und beständig, d.h. sie sind sehr belastbar bei gleichzeitig geringem Gewicht der Bauteile.

Allerdings können diese Materialen auch brechen, wobei sich das Bauteil möglicherweise nur wenig vor dem Bruch verformt. Eventuell eingetretene Überbeanspruchungen sind wenn überhaupt nur schwer für Laien erkennbar, obwohl das Bauteil beschädigt sein kann. Nach einer Überlastung, z.B. durch einen Unfall, müssen die Bauteile von Fachleuten geprüft werden, um sicherzustellen, dass eine Weiterbenutzung des Produkts unbedenklich ist. Holen Sie daher nach einem solchen Ereignis den sachkundigen Rat Ihres SYNCROS-Fachhändlers ein.

SICHERHEITS-INSTRUKTION

Bewahren Sie diese Gebrauchs- und Montageanleitung sorgfältig auf. Wenn Sie Ihren SYNCROS-Laufradsatz oder Ihr Fahrrad verkaufen, verleihen oder ähnliches, geben Sie diese Anleitung an den neuen Besitzer weiter.

SYNCROS-Laufräder, Schnellspanner/Steckachsen, Reifen, Schläuche, Felgenband und Bremsbeläge unterliegen einem ständigen technischen Fortschritts. Aktuelle Informationen erhalten Sie bei Ihrem SYNCROS-Fachhändler.

VOR DER ERSTEN FAHRT – BESTIMMUNGSGEMÄSSER GEBRAUCH

Beachten Sie, dass jedes SYNCROS-Laufrad **(1)** bzw. jede Fahrradart, jeder Reifen **(2)** und jeder Schlauch **(3)** für einen spezifischen Einsatzzweck, im Folgenden Bedingung genannt, gebaut ist. Benutzen Sie Ihre SYNCROS-Laufräder bzw. Ihr Fahrrad ausschließlich bzw. sachgemäß gemäß dem Bestimmungszweck, sowohl bei einer Montage Ihres SYNCROS-Laufräder bzw. Ihr Fahrrad den Belastungen nicht gewachsen ist und verzwungt, was zu nicht vorhersehbaren Unfallfolgen führen kann! Bei nicht bestimmungsgemäßem Gebrauch erlischt zudem die Garantie.

Wenn Sie nicht sicher sind, zu welcher Bedingung Ihre SYNCROS-Laufräder bzw. Ihr Fahrrad gehören, lesen Sie im SYNCROS-Laufradpass nach oder wenden Sie sich an Ihren SYNCROS-Fachhändler.

SYNCROS-Laufräder, Bereifung etc. sind für ein maximales Gesamtgewicht für Fahrer und Fahrrad inklusive Gepäck, z.B. einem Rucksack, ausgelegt. Das maximal zulässige Gesamtgewicht entnehmen Sie dem SYNCROS-Laufradpass und/oder dem Aufkleber auf der Felge. Halten Sie stets die Angaben im SYNCROS-Laufradpass ein.

⚠ WARNUNG

Ihre SYNCROS-Laufräder wurden für einen bestimmten Einsatzzweck konstruiert. Benutzen Sie Ihre SYNCROS-Laufräder bzw. Ihr Fahrrad ausschließlich gemäß dem Bestimmungszweck, sonst besteht die Gefahr, dass die SYNCROS-Laufräder bzw. Ihr Fahrrad den Belastungen nicht gewachsen ist und versagt, was zu nicht vorhersehbaren gefährlichen Unfallfolgen führen kann. Bei bestimmungsgemäßem Gebrauch erlöschen Garantie und Schadensansprüche. Wenn Sie nicht sicher sind, wenden Sie sich an Ihren SYNCROS-Fachhändler.

Das zulässige Höchstmindestgewicht des gesamten Fahrrades kann unter Umständen durch die Gewichtsbeschränkung der SYNCROS-Laufräder oder anderer Komponentenhersteller weiter eingeschränkt werden.

Verbinden Sie niemals Ihre SYNCROS-Laufräder, Schnellspanner bzw. Steckachsen, Felgenbänder **(4)**, Bereifung oder Bremsbeläge. Felien oder bohren Sie beispielsweise keine Löcher in Komponenten, da es deren Struktur schadet und ihre Stabilität reduziert.

Lassen Sie Ihre SYNCROS-Laufräder, Bereifung etc. nach einer Stoßbelastung z.B. einem Unfall, Aufprall oder Sturz, zu Ihrer eigenen Sicherheit von Ihrem SYNCROS-Fachhändler untersuchen.

Sollte eines Ihrer SYNCROS-Laufräder oder einer Ihrer Schnellspanner bzw. Steckachsen kranken oder Knackgeräusche von sich geben oder äußerliche Schäden wie Kerben, Risse, Beulen, Verfärbungen etc. aufweisen, sollte Sie mit Ihrem Fahrrad nicht mehr fahren. Lassen Sie diese Schäden von Ihrem SYNCROS-Fachhändler sorgfältig begutachten und ggf. die Teile tauschen.

Lesen Sie im SYNCROS-Laufradpass nach oder wenden Sie sich an Ihren SYNCROS-Fachhändler, um zu erfahren, zu welcher Bedingung Ihre SYNCROS-Laufräder bzw. Ihr Fahrrad gehören.

Bedingung 1 SYNCROS-Laufräder:

SYNCROS-Laufräder bzw. Fahrräder der **Bedingung 1** sind für den Einsatz auf normalem, befestigtem Untergrund, d.h. für asphaltierte oder gepflasterte Straßen und Radwege vorgesehen, wobei die Reifen bei durchschnittlicher Geschwindigkeit Bordenkontakt haben sollen. Stufen oder Bordsteinkanten dürfen nur bis zu einer Höhe von maximal 15 cm vorsichtig befahren werden. Der bestimmungsgemäße Bereich der Durchschnittsgeschwindigkeit liegt zwischen 15 und 25 km/h.

Diese Laufräder sind nicht für den Offroad-, Cyclocross- oder Mountainbike-Einsatz oder Sprünge und Wettkämpfe gleich welcher Art geeignet.

Bedingung 2 SYNCROS-Laufräder:

SYNCROS-Laufräder bzw. Fahrräder der **Bedingung 2** sind für den Einsatz auf normalem, befestigtem Untergrund, d.h. für asphaltierte oder gepflasterte Straßen und Radwege, sowie auf unbefestigten Straßen und Schotterwegen moderater Einstufung vorgesehen. Unter diesen Bedingungen kann zu zum Kontakt mit unebenem Gelände und zum Verlust des Reifenkontakts mit dem Boden kommen. Stufen oder Bordsteinkanten (Sprünge/Drops) dürfen nur bis zu einer Höhe von maximal 15 cm vorsichtig befahren werden. Der bestimmungsgemäße Bereich der Durchschnittsgeschwindigkeit liegt zwischen 15 und 25 km/h.

Diese Laufräder sind nicht für den Offroad-, Cyclocross- oder Mountainbike-Einsatz oder Sprünge und Wettkämpfe gleich welcher Art geeignet.

Bedingung 3 SYNCROS-Laufräder:

SYNCROS-Laufräder bzw. Fahrräder der **Bedingung 3** sind für den Einsatz auf unwegsamen Pfaden, unebenen, unbefestigten Straßen sowie im schwierigen Gelände und auf nicht ersichtlichen Wegen konzipiert. Für deren Verwendung ist technisches Fahrkönnen erforderlich. Sprünge/Drops dürfen bis zu einer Höhe von 60 cm vorgenommen werden.

Sie sind weiterhin vorgesehen für querfeldein Fahren und Rennen in Bereichen von leicht bis gegliedertem Gelände (z.B. hügelig mit kleinen bis mittleren Hindernissen, wie Wurzeln, Gestein, lose und harte Oberflächen sowie Vertiefungen).

Nicht geeignet sind SYNCROS-Laufräder der Bedingung 3 jedoch für verblockte Geländе, Treks, Treppenfahrten etc., Training und Wettkämpfe der Kategorien Freeride, Downhill, Dirt Jump, Slopestyle oder sehr aggressives oder extremes Fahren.

Bedingung 4 SYNCROS-Laufräder:

SYNCROS-Laufräder bzw. Fahrräder der **Bedingung 4** sind für den Einsatz auf unwegsamen Pfaden, unebenen, unbefestigten Straßen sowie im schwierigen, rauen und teilweise verblockten Gelände und auf nicht ersichtlichen Wegen konzipiert. Für deren Verwendung ist technisches Fahrkönnen erforderlich. Sprünge/Drops dürfen bei zu einer Höhe von 120 cm vorgenommen werden. Sie sind weiterhin vorgesehen für Fahrten auf nicht ersichtlichen Wegen bei Geschwindigkeiten von weniger als 40 km/h.

Nicht geeignet sind SYNCROS-Laufräder der Bedingung 4 jedoch für die regelmäßige und dauerhafte Nutzung in Bikeparks, im Training und in Wettkämpfen der Kategorien Freeride, Downhill, Dirt Jump, Slopestyle oder sehr aggressives oder extremes Fahren.

Bedingung 5 SYNCROS-Laufräder:

SYNCROS-Laufräder bzw. Fahrräder der **Bedingung 5** sind für Extremsport, d.h. für Sprünge, Sprünge von Hindernissen (Drops), hohe Geschwindigkeiten oder aggressives Fahren über rauere Oberflächen oder das Landen auf ebenen Flächen gesignet.

Das Laufrad der Bedingung 5 für Fahrten auf schwierigsten Gelände, z.B. auf North Shore Strecken und Slopestyle, vorgesehen, an dem sich jedoch nur die verstertesten Fahrer versuchen sollten. Sprünge/Drops dürfen bis zu einer Höhe von 120 cm vorgenommen werden.

Bedingung 6 SYNCROS-Laufräder:

SYNCROS-Laufräder bzw. Fahrräder der **Bedingung 6** sind für den Einsatz auf befestigten Wegen und Wegen mit asphaltierter oder gepflasterter Oberfläche vorgesehen. Die Reifen müssen im ständigen Kontakt mit dem Untergrund bleiben. Stufen oder Bordsteinkanten dürfen nur bis zu einer Höhe von maximal 15 cm vorsichtig befahren werden.

Diese Laufräder sind für Sport- und Wettkampffahrten mit hoher Anstrengung vorgesehen. Der bestimmungsgemäße Bereich der Durchschnittsgeschwindigkeit liegt zwischen 30 und 50 km/h.

Diese Laufräder sind nicht für Geländefahrten, Sprünge, Slides, Treppenfahrten, Stoppies, Wheelies, Tricks etc., nicht für den Offroad-, Cyclocross-Einsatz oder für Touren mit Gepäckträgern oder Gepäcktaschen gesignet.

⚠ WARNUNG

Vor der Nutzung von SYNCROS-Laufrädern bzw. Fahrrädern auf öffentlichen Straßen müssen die hierfür vorgeschriebenen Einrichtungen, wie z.B. Seitenstrahler bzw. Reflexringe vorhanden sein. Beachten Sie im öffentlichen Straßenverkehr die Verkehrsregeln. Weitere Informationen finden Sie im Kapitel **„Gesetzliche Anforderungen für die Teilnahme am Straßenverkehr"** in Ihrer allgemeinen Fahrradanleitung.

Überschätzen Sie sich zu Ihrer eigenen Sicherheit nicht. Manche Fahrweise, Aktion oder Show eines Profis sieht nach jahrelangem Training einfach aus, birgt aber Gefahren für Leib und Leben. Tragen Sie stets ausreichende Schutzkleidung.

VOR JEDER FAHRT

Bevor Sie losfahren, müssen Sie folgende Punkte hinsichtlich der SYNCROS-Laufräder an Ihrem Fahrrad überprüfen:

1. Weisen die Reifen äußere Schäden (Schnitte, Risse, Beulen, Fremdkörper) auf? Haben beide Reifen genügend Luftdruck? Die angaben über Mindest- und Maximaldruck (in bar oder PSI) finden Sie seitlich auf der Reifenflanke. Prüfen Sie den Luftdruck mit einer Pumpe mit Manometer **(5)**. Kontrollieren Sie anschließend den Sitz des Reifens anhand des Reifenkontrollrings **(6)**, der beidseitig gleichmäßig zur Felge verlaufen muss. Die Reifen dürfen weder Seiten- noch Höhenschläge aufweisen. Der Schlauch darf an keiner Stelle zwischen Reifen und Felge eingeklemmt sein und das Ventil darf nicht schräg stehen. Weitere Informationen finden Sie im Kapitel **„Reifen"** im folgenden Überprüfen.
2. Sind die Schnellspanner, Steckachsen oder Achsverschraubungen an Vorder- und Hinterrad korrekt geschlossen **(7)**? Weitere Informationen finden Sie im Kapitel **„Einbau und Ausbau von SYNCROS-Laufrädern"** sowie in den Kapiteln **„Schnellspanner/Steckachsen"** und **„Sichere Befestigung Ihres SYNCROS-Laufrades mit einer Steckachse"**.

⚠ WARNUNG

Nicht ordnungsgemäß geschlossene Schnellspanner, Steckachsen oder Achsverschraubungen können dazu führen, dass sich die SYNCROS-Laufräder lösen. Schwere Stürze wären die Folge!

3. Lassen Sie beide SYNCROS-Laufräder frei drehen **(8)**, um den Rundlauf der Felgen zu prüfen. Beobachten Sie dazu den Spalt zwischen Bremsbelag und Felge oder bei Felgenbremsen mit Scheibenbremsen den Bremsen. Rahmen und Felge oder Felge und gelaufter Rundlauf kann auch auf seitlich aufgelaptzte Reifen, gebrochene Achsen, beschädigte Felgen oder gebrochene Speichen hinweisen. Wenn Sie bei der Überprüfung des Bereiches Bremse/SYNCROS-Laufrad bemerken, dass sich der Spalt zwischen Felge und Reifen oder