



OVAL
CONCEPTS

WHEEL MANUAL

CONGRATULATIONS!

Congratulations on your purchase of Oval Concepts Wheels. Developed to perform at a high level, it is important that you follow the operation and maintenance instructions outlined in this manual to guarantee that your wheels perform at their best for years to come. Prior to installing and using your Oval Concepts Wheels we strongly recommend reading this manual in its entirety.

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SAFETY WARNINGS

Proper installation of your Oval Concepts Wheels is critical to ensuring the proper function of your bicycle and personal safety. Failure to properly secure the wheels may result in a serious injury or death to the rider. Improper installation of the wheels may also result in poor shifting performance and damage to the bicycle itself.

To ensure that your wheels are properly installed please do the following:

- Ask your dealer to demonstrate the proper installation of your new Oval Concepts wheels.
- Understand how to properly secure the quick release mechanisms having your dealer check to be sure you are using the proper method.
- Be sure that the axles, frame/fork dropouts, and quick releases are clean prior to installation of the wheels.
- Understand how to properly install the tires on the rims or have your authorized Oval Concepts dealer install them for you.
- Always inflate your tires to a pressure within your tire's recommended pressure range that is printed on the sidewall of the tire. Never exceed the maximum recommended pressure or inflate below the recommended minimum. Doing so could create a situation where the tire comes off the rim.
- Carbon fiber rims require specific brake pads. Check with your authorized Oval Concepts Dealer to be sure that the brake pads installed on your bicycle are compatible with your rims. Replace brake pads that are the incorrect material, worn, or contaminated. Failure to use the correct brake pads could lead to premature wear of the rim leading to wheel failure. Wheel failure could result in injury, death, or damage to your bicycle.
- Some Oval Concepts aluminum rims feature a wear indicator on both sides of the rim. Ask your authorized dealer to identify this. Before every ride, check the wear indicator on your rims. If the wear indicator is significantly worn or missing, **DO NOT RIDE WITH THE WHEEL**. Worn rims are prone to failure that could result in serious injury or death.
- Unless your wheels are tubeless compatible, do not use tubeless products with them. If you are uncertain about your wheels' tubeless compatibility, please ask your authorized Oval Concepts Dealer.

ABOUT YOUR WHEELS

COMPATIBILITY

Oval concepts wheels are compatible with 11 speed Shimano and SRAM cassettes. To use these wheels with 9 or 10 speed cassettes, please use the included spacer between the hub and the cassette body.

INCLUDED PARTS

- Rim Strips
- Front and Rear Quick release Skewers
- Valve Extenders (if necessary)
- Brake Pads (included with full carbon rims only)

SETTING UP YOUR WHEELS

VALVE EXTENSION INSTALLATION

1. Valve extensions should be installed prior to mounting tires.
2. To prepare the valve for valve extension installation, remove Presta Valve Cap and lockring from valve. Unscrew the valve nut, located at the tip of the valve, fully. *[Figure A]*
3. Using plumbers PTFE tape, begin wrapping the tape around the valve threads in a clockwise direction. Begin at the smaller threads located near the tip of the valve and continue down onto the larger threads on the base of the valve. Several layers of tape may be necessary to fully seal the valve extension on the valve body. *[Figure B]*
4. Taking the valve extension, thread the wider end of the extension onto the valve turning the extension in a clockwise direction. Thread the extension onto the valve until it is snug. *[Figure C]*

Figure A

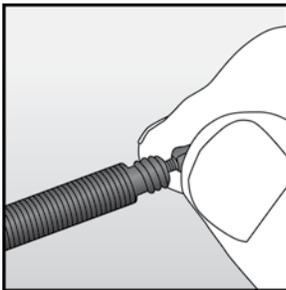


Figure B

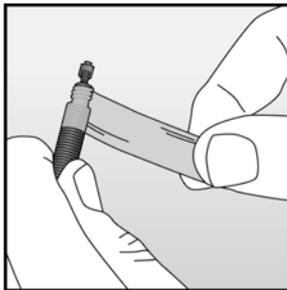
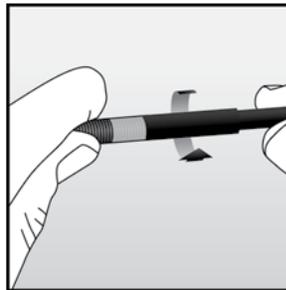


Figure C



MOUNTING CLINCHER TIRES

RIM STRIP INSTALLATION

1. Your Oval Concepts Wheels require the use of a rim strip. It is recommended that you install the Oval Concepts Rim Strips provided with your wheels. Neglecting to install a rim strip will result in tube failure.
2. When installing the rim strip, be sure to line up the hole in the rim strip with the valve hole drilled in the rim. *[Figure D and E]*
3. Beginning at the valve hole, stretch the rim strip over your rim allowing it to seat in the channel and center it between the sidewalls of the rim. The rim strip should cover all spoke holes completely. *[Figure F]*
4. Once again, check to be sure the valve hole and the hole in the rim strip are aligned. Check once more that the spoke holes are covered completely by the rim strip.

Figure D

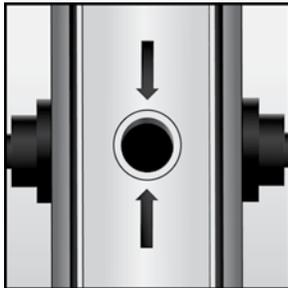


Figure E

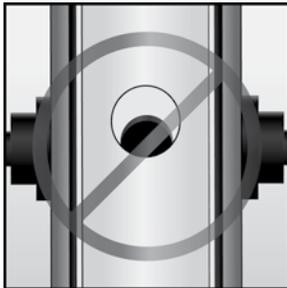
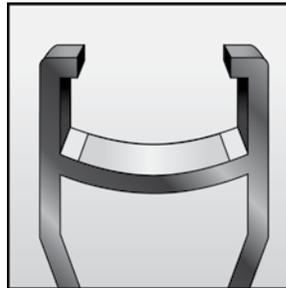


Figure F



TIRE INSTALLATION

1. Prior to installing a tire, check the tire's sidewall for directional arrows. Be sure and follow the tire manufacturer's recommended rotational direction if indicated.
2. Keeping in mind the rotational direction, mount one bead of the tire on the rim. It is good practice to mount the tire with manufacturer's logo at the valve hole. Should you have difficulty mounting the bead, you may use a plastic tire lever only to ease the bead over the rim sidewall. *[Figure G]*
3. Taking the tube, inflate until it begins to take shape. Place the valve into the valve hole in the rim and, being sure the valve remains perpendicular to the rim, place the rest of the tube into the tire between the tire casing and the rim. Check that the tube is not twisted. *[Figure H]*
4. Seat the second bead of the tire onto the rim. Be sure that the tube is not pinched between the bead and the rim as you work your way around the rim. If you experience difficulty installing the tire, you may use a plastic tire lever only to seat the last part of the bead. If seating a tire in this manner, be sure to avoid puncturing the tube with the tire lever. *[Figure I]*
5. Inflate the tire with low pressure then inspect the area around both sides of the rim where the tire meets the rim. Be sure that that tire is seated correctly and evenly around both sides of the rim. If the tire is not seated correctly, you may need to re-install the tire. *[Figure J]*
6. If seated correctly, inflate tire to full pressure and check to be sure the tire is seated correctly once again.

Figure G



Figure H

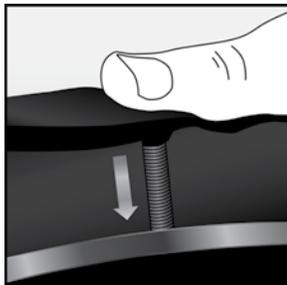


Figure I



Figure J



TUBULAR TIRE INSTALLATION

Tubular Tires should always be installed by your Authorized Oval Concepts Dealer.

QUICK RELEASES

INSTALLING THE SKEWERS

1. Your Oval Concepts Wheels come with a front quick release skewer and a longer rear skewer. Quick releases are systems installed on the bicycle in place of bolted connections. They consist of two parts: the clamping lever which provides the necessary clamping force, and the locking nut which allows you to regulate the clamping force.
2. To install the skewer, remove the nut from the end of the skewer along with the conical spring closest to the nut. **[Figure K]**
3. Slide the skewer through your hub axle from the non-drive side. Once through, slide the spring, narrow diameter towards the axle, onto the skewer then thread on the nut a few turns. **[Figure L and M]**

Figure K

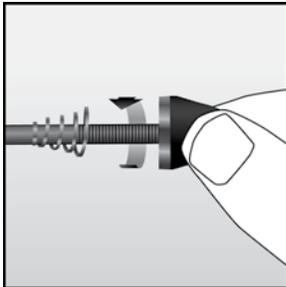


Figure L

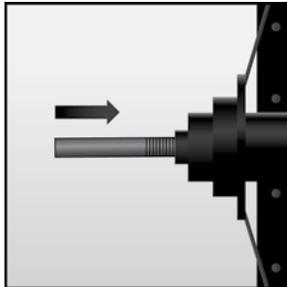
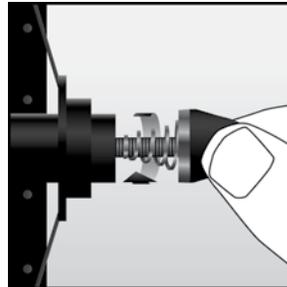


Figure M



INSTALLING THE FRONT WHEEL

1. Be sure that the lever of the quick release is in the open position.
2. Move the front brake caliper release into the open position to allow the tire to move past the brake pads.
3. Placing the wheel between the blades with the quick release skewer lever on the non-drive side of the fork, align the axle ends with the fork dropouts slipping the axle into the dropouts. Check that the axle seats fully in the dropouts. For safety purposes, bicycle forks are equipped with safety tabs. There should be no interference between the safety tabs and the quick release skewer. **[Figure N]**
4. Holding the skewer lever closed half way (in line with the hub axle), tighten the quick release adjusting nut until it makes contact with the dropout. **[Figure O]**
5. Close the lever until it is 90° to the hub axle. A good gauge for measuring if the wheel is safely clamped is if you can only close the clamping lever with the palm of your hand when the resistance increases after closing the lever half way. **[Figure P]**
6. To increase tension, open the lever to the half way position and tighten the quick release skewer nut.
7. When closed, the quick release lever should reside rearward of the non-drive fork blade. If necessary, open the lever and reposition.

Figure N

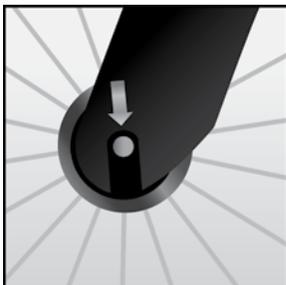
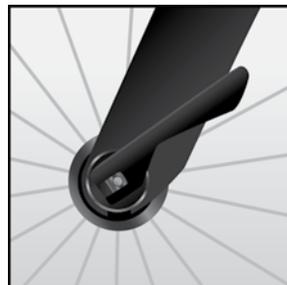


Figure O



Figure P



INSTALLING THE REAR WHEEL

1. Install the cassette according to the cassette manufacturer's installation instructions. Use a torque wrench to secure it to the proper torque specification.
2. Be sure that the lever of the quick release is in the open position.
3. Move the front brake caliper release into the open position to allow the tire to move past the brake pads. Shift the rear derailleur into its outermost, highest gear, position.
4. Clutching the rear derailleur, carefully pull back and down to move the chain apart allowing the smallest cog to be placed within. *[Figure Q]*
5. Aligning the axle ends with the dropouts, position the axle being sure that the axle is fully seated.
6. Holding the skewer lever closed half way (in line with the hub axle), tighten the quick release adjusting nut until it makes contact with the dropout.
7. Close the lever until it is 90° to the hub. A good gauge for measuring if the wheel is safely clamped is if you can only close the clamping lever with the palm of your hand when the resistance increases after closing the lever half way. *[Figure R]*
8. To increase tension, open the lever to the half way position and tighten the quick release skewer nut.
9. When closed, the quick release lever should reside between the seat stay and the chain stay. If necessary, open the lever and reposition.

Figure Q



Figure R



FINAL CHECK

1. Move the front brake caliper release to the closed position.
2. Check that the wheel is centered between the fork blades. If not, release the quick release skewer lever and be sure the axle is fully seated in the fork dropouts. Close the quick-release skewer lever once again according to the directions outlined under "Installing the Front Wheel."
3. Squeeze the front brake lever a few times. The brake pads should be centered vertically on the rim. Each brake pad should be spaced equally from the rim making contact at the same time when the lever is squeezed. Any adjustment to your brakes should be made by your authorized Oval Concepts Dealer.
4. Move the rear brake caliper release to the closed position.
5. Check that the wheel is centered between the seat stays and the chain stays. If not, release the quick release skewer lever and be sure the axle is fully seated in the fork dropouts. Close the quick-release skewer lever once again according to the directions outlined under "Installing the rear Wheel."
6. Squeeze the rear brake lever a few times. The brake pads should be centered vertically on the rim. Each brake pad should be spaced equally from the rim making contact with the rim simultaneously when the lever is squeezed. Any adjustment to your brakes should be made by your authorized Oval Concepts Dealer.

CARE AND CLEANING

- Use soap and water to clean your rims. Be sure that the rims are rinsed thoroughly and are free of soap or greasy residue before you ride. Never direct a stream of water or solvent towards your hubs as this could damage the hub bearings.
- When replacing brake pads, be sure you use brake pads that are compatible with your rim material. For carbon rims, use only Oval Concepts Carbon Rim specific Brake Pads.

WARRANTY

POLICY

1. Advanced Sports Inc. provides the original retail purchaser of each new Oval Concepts Wheel a warranty against manufacturing defects and workmanship for the period of two years from date of purchase. This warranty is not transferrable and applies to the original owner of the product only. Claims under this warranty must be made through an authorized Oval Concepts dealer. Proof of Purchase is required.
2. This warranty is expressly limited to the repair or replacement of a defective wheel or wheel part and is the sole remedy of the warranty.

LIMITATIONS/EXCLUSIONS

1. This warranty does not apply to products that have been improperly installed and/or adjusted.
2. This warranty does not apply to damage to the product as the result of a crash, abuse, or usage outside of its intended use.
3. Modification of the product voids the warranty.
4. Deliberate removal or alteration of the product's serial number or manufacturing code voids the warranty.
5. Failure to properly maintain the product voids the warranty. Maintenance should be performed by your authorized Oval Concepts dealer.

NORMAL WEAR AND TEAR PARTS ARE NOT COVERED UNDER WARRANTY.

These parts include:

- Braking Surfaces
- Bearings
- Bearing Races
- Pawls
- Spokes
- Free Hubs
- Brake Pads

LIABILITY LIMITATION

Oval Concepts/Advanced Sports Inc. shall not be responsible for incidental or consequential damages, including damages for personal injury, property damage, or economic loss. Some states and countries do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply. This warranty gives the consumer specific legal rights, and those rights may vary from place to place. This warranty does not affect the statutory rights of the consumer.