EDGE Composites — Product Manuals (2009)

Reconstructed from the official edgecomposites.com website as archived by the Wayback Machine, capture dated 2009-04-17 (manuals.asp). EDGE Composites was the pre-2010 name of what became ENVE Composites. No PDF catalog or price list from this era survives in any archive checked; this document preserves the site's own inline service/installation instruction text for its three product lines at the time (wheels, stems & handlebars, forks).

Service Instructions - Edge Composite Wheels

Congratulations on the purchase of your Edge Composite wheels! Read these instructions and follow them for correct use. Specific tools and knowledge are necessary for proper installation. It is recommended that the wheels be installed by a qualified bicycle technician. Models 700c 25mm, 38mm, 45mm, 68mm tubular and clincher 1.0 and 2.0 wheels 26" XC clincher, All Mountain clincher, and tubular wheels 29'er XC and All Mountain clincher wheels Service Specifications Road Wheel Tensions: 100-130kg (Front), 120-140kg (Drive), 70-90kg (Non-Drive) Mountain Wheel Tensions: 120-140kg (Front), 120-140kg (Rear) Brake pads Use of incorrect brake pads can cause damage to carbon braking surface and rim. Use only the recommended Edge Composite carbon specific brake pads with the appropriate wheels. Note: Use of any other brake pad will void the warranty Contact your local bicycle dealer or an Edge Composite customer service representative to obtain correct replacement pads when necessary. Mounting tires Carefully follow the instructions provided by your tire manufacturer. For tubular wheels, the gluing procedure for composite rims, while similar, is different from aluminum rims. Ensure correct adhesive and procedure is used to make a reliable tire mounting. Quick releases Quick Releases (QR) provide superior wheel retention if they are correctly installed and maintained. When closing the QR, too much leverage may cause damage to the QR, and result in accident, injury or death. The QR lever closing force is adjusted by turning the nut opposite of the QR lever clockwise to tighten, or counter-clockwise to loosen. Adjust the QR lever so moderate force is required to close lever fully. Consult a qualified bicycle mechanic for QR adjustment tips or regarding questions on proper lever force. Edge Composite suggests adjusting the lever so that, when closed, it is pointing upward in order to avoid contact with passing objects. Regularly check the quick release adjustment. The QR may need periodic lubrication at pivot points so it can exert maximum sideways force without binding. Cassette installation Edge Composite wheels use cassette bodies are compatible with all most 9 or 10 speed cassettes, including SRAM, Shimano, Campy, Sun Race, etc. Lightly lubricate the freehub body exterior with oil or grease before mounting the cassette. Keep a generous amount of grease in the exposed end of the freehub body to protect the drive side outboard bearing. Adjust and tighten the cassette lockring to manufacturer's specifications. Maintenance and Use It is the user’s responsibility to examine the Edge Composite product on a regular basis to determine the need for service or replacement. Users should inspect their bicycle and parts on a regular basis in order to detect damage that may have occurred from normal use and abuse. Check all parts for damage and wear before every use. Should any problems or concerns arise, discontinue riding the bicycle and have it inspected by a qualified bicycle technician. Wheel truing Edge Composite Bicycle wheels are straight, round, and stable because of a balance of spoke tension. The rim’s shape can be changed by tightening and loosening spoke nipples. Wheel truing should be performed by persons with adequate wheel truing experience or training. If you do not have confidence or experience with wheel truing then take the wheels to a qualified technician for this service. Problems that require the attention of a specialist: This includes major untrueness, chronic spoke loosening or breakage, noises, rim dents and cracks, or any negative sensations while riding. These are important signs to visit your local bike shop for expert advice. Do not ride a wheel that is unreliable or subject to questionable performance as evaluated by a user. Hub maintenance Edge Composite wheels are built with hubs that are equipped with high grade, precision, sealed cartridge bearings. Under normal circumstances, no maintenance is required. Please be aware of the following situations: Avoid contamination of bearings with solvents, aerosol lubricants (as for chain), and

strong cleaning solutions inn the hubs. Solvents can pass the seals and break down the bearing grease, decreasing performance and lifespan. When cleaning the bike, use only mild soap and a mild stream of water for rinsing. Avoid pressure washing. High pressure systems can direct water and special wetting agents at a high pressure, forcing water passed the bearing seal and removing critical bearing grease. Wheel Replacement Parts Replacement parts are available for purchase through most bicycle service and retail locations. If the bicycle shop does not stock the necessary parts, it can be ordered by the retail location from Edge Composites direct. Rim maintenance Carbon fiber matrix rims are complex composite structures. Please use them thoughtfully and inspect the wheels regularly. When braking, particularly on descents, utilize both front and rear brakes. They have different benefits and limitations, so use them accordingly. Incorporate advice from experienced riders. It is important that both rims are employed during descents to properly dissipate heat. When riding in damp, wet or dirty conditions, listen for scraping sounds that might indicate soil or grit is trapped in the brake pad. Contaminated brake pads will be less effective in stopping and be more abrasive and damaging against the rim. Stop, remove the wheel and inspect the pad surface. Remove any debris and clean before it can damage the rim brake surface. Water on the rim and brake pads will increase braking distance. In the wet, allow extra distance and time for stopping. Vigorous braking will cause brake pads to heat and possibly mark the rim brake track. Do not allow melted pad material to accumulate on the rim surface. Pad deposits should be removed with care using a pad and gentle cleaning action. Be careful to keep solvents from reaching the tire or the rim cement that secures it. Pad material on the rim brake track can interfere with brake response, cause vibration, and create hot spots that could damage the rim. If, during one of your frequent inspections, you notice impact damage or any other deformation of the rim, immediately seek advice from an experienced mechanic. If you cannot locate such expertise, contact Edge Composites with any questions or concerns. WARNING: In the event of a bicycle accident, discontinue riding the bicycle until it has been thoroughly examined by a qualified bicycle mechanic, and any damaged parts replaced. All damaged parts should be repaired or replaced by a qualified bicycle mechanic before the bicycle is used again. Continuing to use damaged parts may lead to loss of control of the bicycle and cause injury or death.

Installation Instruction - Edge Composite Stems and Handlebars

Service Instructions

Congratulations on the purchase of your Edge Composite Stem and Handlebar! Please follow carefully the below instructions for correct use. Particular tools are needed and experience is necessary for proper installation, We recommend that all Edge products be installed by a qualified bicycle technician. Compatibility Edge Composites road and MTB products are compatible with industry standard steerer tube and handlebar diameters. To choose the correct stem, first check the specific diameter of steerer tube and handlebar to be used. Installation Instructions Important: For carbon fiber steerers, do not use star-nut type fasteners for headset bearing preload. Instead use an expansion wedge type preload device. Follow specific instructions for expansion wedge. A: Mounting stem on steerer tube: 1. Ensure that the fork steerer tube is clean and free of burrs or chips. 2. Ensure that the fork steerer tube is cut to the correct length, and that the proper spacers are used to achieve chosen height. 3. With all headset components, fork and spacers installed, slide the stem on to the steerer tube. 4. Install top cap of bearing preload system, and tighten until proper bearing preload is achieved. 5. Important: Tighten stem fixing bolts according to fork manufacturer’s recommendations. Edge Composite’s maximum allowable torque for the stem fixing bolts is 6Nm. Use fork manufacturer’s recommendations for bolt torque unless the recommendation exceeds 6Nm. B: Mounting Handlebar on stem: 1. Uninstall the stem face plate. 2. Check that bolt threads have a light layer of grease. 3. Place handlebar between stem and face plate. Thread all bolts in finger tight. 4. Ensure that you have evenly tightened all bolts. Alternate tightening of the bolts using an “X”pattern. 5. Important: Edge Composite's maximum allowable torque for the handlebar binder bolts is 6Nm. If a non-Edge Composite handlebar is used, follow the manufacturer’s specified torque if it does not exceed 6Nm. Torque should not ever exceed 6Nm. Maintenance It is the user’s responsibility to examine the product on a regular basis to determine the need for service or replacement. Users should inspect their bicycle and its parts on a regular basis in order to detect damage that may have occurred from normal use. Inspect all parts for damage and wear before each use. Check all fasteners periodically for

tightness. Do not over-tighten. WARNING: In the event of an accident or crash, all parts should be thoroughly examined by a qualified bicycle mechanic, and any damaged Edge Composite parts replaced immediately All damaged parts should be repaired or replaced by a qualified bicycle mechanic before the bicycle is used again. Continuing to use damaged parts may lead to loss of control of the bicycle and cause injury or death

Installation Instructions - Edge Composite Forks

Warning: Edge Composites forks are not approved for tandem bicycle use. Congratulations on the purchase of your Edge Composites Fork! To ensure the best performance and longest service life from your Edge Composites Fork, please read and carefully follow these installation instructions. Installation •All Edge Composites products should be installed by a qualified bicycle mechanic using appropriate professional tools. Use a calibrated torque wrench when tightening bolts to torque specification. Bolts that are too loose or too tight can cause failure. Edge Composites assumes no liability for products that are improperly installed. WARNING! Failure to follow these instructions can result in component failure. Component failure can lead to loss of control of the bicycle and result in serious personal injury or death. Preparation Verify that the fork and the headset have compatible diameters. Verify that the stem steerer clamp diameter is compatible with the fork steerer tube diameter. The fork, headset and stem steerer clamp must have compatible diameters. Incorrect mating of components can cause component failure. Confirm the headset parts are free of any burrs or sharp edges. Remove any burrs or sharp edges with 320/400 grit sandpaper. Confirm your stem is free of any burrs or sharp edges at the steerer clamp slot. Remove any burrs or sharp edges with 320/400 grit sandpaper. Preparing the Fork Avoid scratching or scoring the steerer tube surface. Any damage to the steerer tube could cause failure. Apply a small amount of grease to the fork crown race seat. Do NOT make any modifications to the crown race area of the fork. Only use a headset race with the correct inside diameter for your fork steerer tube. Hold one leg of the fork securely and, using an appropriate race seating tool, install the headset crown race. Do not place the fork on the dropout tips or crown while installing the race. Doing so can damage the fork and could cause failure. Assemble the fork, headset and any spacers in the head tube of the bicycle and slide on the stem. The spacer stack below the stem must not exceed 50 mm (2 inches). A carbon steerer tube should extend 5-7 mm above the top of the stem clamp and have a 10 mm spacer installed between the stem and the top cap. Carefully measure and mark the amount of steerer tube that you will need to remove. Remember that, when cut, the top of the steerer tube must be 2-3 mm below the top of the headset/spacer/stem assembly. Remove the fork from the bicycle. Make absolutely certain that you do not cut the steerer tube too short. Using a new fine tooth hacksaw and proper cutting guide, cut the steerer tube to exact specifications. Carefully sand or file the rough edges until smooth. Clean the steerer tube and inside of the stem clamp with alcohol to remove grease and dirt; then let dry. CAUTION! Never use a star-fangled nut with a carbon steerer tube. Install insert nut into fork and thread until 6–7 mm below top end of steerer tube. Confirm thread friction holds insert nut in steerer tube without movement. Installing the Fork Assemble the fork, headset, spacers, top cap and top cap bolt in the head tube of the bicycle and slide on the stem. Adjust headset tension using an appropriate hex wrench and according to the headset manufacturer’s instructions. If the headset manufacturer has not specified torque, tighten to 1.6 Nm (15 in-lbs). Torque the stem steerer clamp bolts as specified by the stem manufacturer (not exceed 6Nm!). Install the front brake following the brake manufacturer’s instructions. Follow the wheel manufacturer’s instructions for correct clamping of the wheel quick release and install the front wheel. Failure to properly adjust the quick release and secure the wheel can result in serious injury or death. Adjust the front brake following the brake manufacturer’s instructions. Failure to properly install and adjust brakes can result in serious injury or death. When using a dropout clamping bicycle rack, always clamp the dropouts securely to prevent dropout and/or bike damage. If the clamp is loose, the bike may fall out of the rack. When removing the fork from the clamp, be sure to remove both dropouts evenly at the same time. Do not tilt the bike to one side, because dropout damage may result. Dropout damage can cause component failure, which can result in serious injury or death. Maintenance Do not modify the fork in any way, other than cutting the steerer tube to the correct length for your bike. Modifying the fork could cause fork or other component failure resulting in serious injury or death. Always loosen the stem’s steerer clamp bolts before attempting to make stem/fork alignment adjustments. Periodically remove, clean, and inspect your fork for any damage or cracks. If you have any questions about a mark on the fork, consult Edge Composites immediately. Regularly inspect all

components for any damage (cracks, chips, etc.) and replace component upon detection. In case of a crash or any impact, carefully check your bars, stem, fork, seat post, wheels, and frame for any visible damage. As with any component under stress, there is a limited fatigue life that is proportional to the use and abuse of the part. Inspect your components frequently. If you have any concerns about the integrity of any part, DISCONTINUE USE AND REPLACE IT. Consult Edge Composites or your Edge Composites dealer if you are unsure about the condition of your components or any part of your bicycle. WARNING: Bicycle riding can be dangerous. To prevent serious injury while riding, wear an approved helmet every time you ride. Be sure your bicycle is properly maintained, and that all components are correctly installed and adjusted. Ride cautiously and within your abilities at all times.