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Although relatively simple, headset installation requires some mechanical knowledge of bicycles and certain special tools. We recommend that you make your way to your local bike shop and let a professional mechanic take care of your installation. But if you want to do it yourself... Watch our headset installation tutorial video and refer to your user manual. We also have headset and Crown race installation tools available for purchase by here parts of a threadless headset before installation The headset is the set of components on a bike that provides a rotatable interface between the bike fork and the head tube of a bicycle frame. The pipe through which the handlebars of the fork passes is called a head tube. A typical headset consists of two cups that are pressed into the top and bottom of the head tube. Inside the two cups are bearings that provide low friction alimony contact between the bearing shell and the handlebars. Sizes Threaded Headset Traditional bicycle head tubes and headsets are dimensioned for a 1-inch diameter (25 mm) steering tube (also known as the fork column). Many frame and fork manufacturers now build their parts around a steering tube with a diameter of 11.8 inches. The larger diameter of the head tube and headset gives the steering part of the bike extra stiffness. Usual sizes 1 or 1 inch (25.4 mm). This can have a fork crown (the base of the fork handlelift tube) in different dimensions. Milling may be necessary to make some headsets fit. 26.4 mm (ISO) 27.0 mm (JIS) Other sizes are becoming more frequent, even more so. [1] 1.125 or 11/8 inches (28.575 mm), originally Tioga Avenger 1.25 or 11.75 mm, originally Gary Fisher Evolution 1.5 or 11.1 mm, as used in the OnePointFive International Standard. Cannondale Headshok. Although a Headshok handlebar near 1.5 it is actually 1.5625 or 1 9/16 inches (39.6875 mm). The headtube dimensions for 1.5 and Headshok are very similar and differ only in the minimum pressing depth. 1.5 inch to 11/8 inch tapered headsets (from 2009). The lower bearing is 1.5 inches for increased stiffness and the upper one is 11/8 inches for reduced weight and to match existing stem interface. The stack height of a headset is the total mounted height of the headset components and, in the case of a threadless system, the stem, discount the tangs that press into the head tube and (in the case of threaded headsets) the thickness of the upper seal of the locknut. The stacking height of a frame and a fork is the difference between the steering tube length and the head tube length. Stack height is important because a headset with a larger stack height than the frame and fork does not fit. The mother will not threaded (thread) or there is no space for the handle (threadless). If the headset is over a Stack height as frame and fork are added spacers to make up for the difference. Types There are a few different types of headset spraining by the way the bearings are kept in place (with a locking nut or with a clamping handle), or through where they are (inside or outside the head tube). Thread An explosive view of an 11/8 in loose ball bearing threaded headset with internal bearings on 2016 Brodie Quantum bicycle thread headsets are used with forks that have a threaded steering tube and are the traditional type (as shown in the above illustration). There are eight parts in a threaded headset (from bottom to top): crown racing, lower bearing, lower frame cup (pictured as a lower head tube race), upper frame cup (pictured as head tube race), upper bearing, upper or cone, washer, locknut. The order in which a typical headset is installed follows. The steering tube is cut to the appropriate length by the bicycle fork manufacturer and the upper 1-2 in (2.5-5.1 cm) of the handlebars is threaded in the rolling process. This process ensures that no material is lost and that the handlebars are not weakened like a die or a lathe cutting machine. Threaded forks require that the threads on the handlebars only use the upper 1-2 inches, so the forks are sold in different lengths. If a fork that is too long to be used, i.e. the fork handlebar is not threaded far enough, a bicycle mechanic can use a die to lengthen the threads. This is not recommended if the threads need to be cut more than an inch or so. As a side note, you should never try to thread an unthreaded handlebar after manufacture, as this will weaken the steering tube. [Quote Required] The threads are usually the ISO standard, 1 in 24 tpi, but there are other standards. The head tube can be confronted and then the cups are pressed into the head tube with a special press, which ensures that they are square and true. The fork crown can be confronted and then the crown race is pressed onto the fork crown with a special press, which also ensures that it is square and true. Then the bearings are placed on the crown race, after which the steering tube is inserted into the head tube. The upper bearings are placed in the upper cup, and the upper race is screwed onto the handlebars. A disc, often a key disc, is placed on the upper race and a locknut is screwed over it. The setting of the headset to remove the game is as follows: the top race or cone is screwed down until it contacts the bearings in the upper cup. A slight preload by rotating the upper cone and additional 1/8 or 1/4 of a rotation. The locknut is then tightened and the headset is checked for play and smooth operation. The readjustment is carried out if necessary. The handle of the spring tube is attached to the handlebar tube of the fork with an expander bolt, which is from the top with a wedge at the bottom, the handle fits into the steering tube and can be adjusted to the correct height without disturbing the headset. To free the handle for adjustment, loosen the screw on the top of the stem a few turns and give the screw a sharp tap to loosen the wedge. Internal and threadless headsets can also be threaded headsets internal. Under the internal design, the breeds and cones are embedded in the head tube, creating a neat, streamlined appearance. No component is visible between the fork crown and the head tube, except perhaps a plastic ring, and only the locknut protrudes from the top of the head tube. In the image of the brodie Quantum 2016 steering unit, the lock nut is dazbled by a plastic cover. The widened upper and lower sections of the head tube contain the bearings. A Quill handle inserts itself into the steering tube. Threadless An explosion-free view of an 11/8 in cartridge bearing threaded headsetThe threadless headset is a newer design. Us patent 5095770 is owned by Cane Creek Cycling Components and expired on 29 September 2010. Headsets of this type are often designated by the Dia-Compe (now Cane Creek) registered trademark Aheadset.[2][3] and are manufactured under license. Like a conventional headset, it uses two sets of bearings and storage cups. Unlike a threaded headset, a threadless headset does not run a thread-top headset or uses a threaded steering tube. Instead, the steering tube extends from the fork to the head tube and over the headset and is held in place by the top clamped handle. Tightening a threadless headset requires tightening the pre-tensioning screw (or cap screw) in the cap on the top of the stem. This screw is connected to a star nut, which is driven into the steering tube and acts as an anchor by detecting the inside of the steering tube with a downward force. In some designs, the star nut can be replaced by a self-expanding wedge. The screw compresses the handle on spacers, mostly aluminum, which in turn compress the headset bearing cups. The pre-tensioning screw does not hold the fork on the bike; after the preload has been set, the stem screws must be tightened to fix the fork in place. The adjustment must be made in such a way that there is no play in the bearings, but the fork can rotate smoothly without it being tied or frictiond. In the threadless headset system, the spacers are important to place the stem and the pre-tensioning screw in the correct position on the steering tube. Thus, the stack height of the trunk becomes important. The steering tube of the fork must be that it leaves at least enough of the steering tube protruding over the headset so that the handle stops; If the steering tube is cut longer than the stem, spacers are used to fill the gap between the handle and the conical compression disc. Cyclists looking for Saddle-to-steer drops for better aerodynamics often dispense with spacers and cut down the handlebar tube to fit the head-to-head height and stem height. Cutting the handlebar tube to its minimum length prevents switching to a higher handle or to a headset cup with a higher stack height. Any increase in handlebar height after this cut requires the purchase of a new fork, a handle with more angle rise (some handles can be reversed for higher height) or a special adapter that clamps onto the steering tube and results in a higher clamping position for the original handle. In addition, many drivers who may have less flexibility than an experienced racer want to gain more height on the handlebars, reducing saddle-to-steer waste and providing a more upright and comfortable driving position. If an owner simply wants to replace the headset with one with a slightly larger stack height, a bike store or frame builder may be able to mill or re-adjust the headtube to get an additional stack ingestion height of 1-2 mm without having to replace the fork. Many filamentless fork handletubes are cut longer than necessary to allow adjustments, and the steering tube above the stem is stacked with spacers that can be moved above or below the handlebar to optimize handlebar height. Often these spacers are aluminum or carbon fiber, but titanium spacers are also available. Integrated bearing cups A relatively new development, integrated headsets do not use the upper and lower bearing cups on threadless headsets and instead place the bearings directly on the head tube of the frame. Partly preferred because of their aesthetic appeal, built-in headsets reduce the number of parts involved in headset mounting. Outstanding standards for integrated headsets include Cane Creek's IS [4] and Campagnolo's Standard, which is nameless alongside the manufacturer's name. Chris King, a leading headset maker, is vehemently opposed to the introduction of integrated headsets. [5] The basis of King's argument is that head tubes with load-bearing seats are far from being machined with appropriate precision. The headset cartridge bearings therefore sit slightly loosely in the head tube of the bike (as opposed to the pressure-mount). During use, the bearings will swing under thrust loads in their seats and will easily damage the softer frame material (often aluminum, although some titanium frames are made for integrated headsets). If there is sufficient damage to the frame, there would be no choice but to replace the frame, especially if the frame is made of an aluminum alloy (titanium and steel can be repair, but usually at high cost to the consumer). King also argues that the built-in headset is largely a cost-cutting measure for many of the larger bike manufacturers, as built-in headsets are slightly cheaper and take less time. Take. Internal headsets, sometimes referred to as semi-integrated headsets, contain all parts of traditional threadless headsets, but the bearings inside the head tube instead of outward. Unlike built-in headsets, internal headsets still use cups between the bearings and the frame itself. Prominent standards for internal headsets include Chris King's InSet and Cane Creek's ZeroStack. These versions use a 44.0 mm inner head tube diameter. [6] [7] Comparison of threadless and threadless headsets The threaded headset has recently been replaced by the threadless headset on bikes of better quality for several reasons: forks with a threadless steering tube are cheaper for manufacturers because they can be cut to measure at the point of sale and the manufacturer can use the same forks on different frame sizes. In comparison, forks must be combined with a threaded steering tube with the length of a frame with a headset tube; Therefore, bicycle manufacturers must manufacture or buy a fork of different sizes for each frame size. Regular all-screw wrenches can be used to adjust threadless headset bearings. In comparison, large and relatively expensive wrenches are required to adjust threaded headset bearings; their size usually excludes wearing them on the street. Threadless headsets and forks are faster to install, saving manufacturing costs. A threadless headset and fork are slightly lighter than an equivalent threaded headset and a corresponding fork. A threadless handle is more rigidly attached to the forks, resulting in improved stiffness on the handlebars. On bicycles that have not been serviced, water can find its way between the trunk and the steering tube of threaded headsets, leading to corrosion and seizure. Threaded headsets also have some advantages: Threaded steering tubes are factory-matched to the frame, thus simplifying the adjustment of the handlebar height. Threaded headsets use a spring handle that can be set vertically over a larger area than typical threadless headset handles. Adjustable head angle At least one manufacturer, Cane Creek, offers a market-less headset bearing kit that allows the steering axis angle to be changed. [8] If everything else remains the same, it changes the geometric track of the bike. Bearing types bicycle headset bearings are usually ball bearings, either loose balls, cage balls or pre-sealed in a cartridge; Needle bearings are also available. [9] It is important to distinguish different standards from cartridge bearings in integrated 11/8 headsets. There are three integrated standards that are incompatible. The figures (45/45, 36/45, 36/36) refer to: Angle on the cartridge bearing they use. All these bearings look similar. Campagnolo Standard: 45/45. (often referred to as the Campagnolo standard) This is common in BMX frames, BMX-derived dirt jumping frames (such as the Transition Trail Or Park). They are also common on road bikes. Usual. The most common manufacturers are Campagnolo, FSA and Cane Creek. Head tubes with this standard have an inner diameter of 41.1 mm, and Cane Creek claims that its CC standard headsets fit into a Campagnolo standard head tube that uses a 0.25mm shim under the top of the headset. FSA standard: 36/36. No one uses this standard for fully integrated headsets (bearings sitting in the frame) with the exception of some niche brands. There are still a lot of 36/36 bearings as they are used in all FSA semi-integrated (internal cup) headsets and some of their standard headsets. Standard dimensions frame and headset manufacturers have developed several size standards:[10] Fork dimensions Fork standard stem terminal diameter (nominal) Crown-Race seat diameter (nominal) 1 ISO 25.4 mm 26.4mm 1 JIS 25.4 mm 27.03 mm 11/8 28.6 mm 30.015 mm 11/4 31.8 mm 33.0 mm 1.5 38.1 mm 39.76 mm Cylindrical bore head tubes (traditional and semi-integrated)ZeroStack) head tube ID (nominal) head tube Standard head tube type 29.9 mm 1 JIS Traditional 33.95 mm 11/8 Standard Traditional 36.95 mm 11.4 Standard Traditional 41.4 mm 1 ZeroStack ZeroStack 44.0 mm 11/8 ZeroStack ZeroStack 49.61 mm 1.5 Standard Traditional 55.95 mm 1.5 Zero Stack ZeroStack Integrated Headpipes (with chamfers) Head tube ID (nominal) Head tube Standard head tube type 38.15 mm 1 Cane Creek Integrated standard Integrated standard Integrated 41.1 mm 11/8 Cane Creek Integrated standard Integrated standard Integrated standard Integrated standard Integrated standard Integrated standard Integrated standard on bicycles , especially those without fenders, are exposed to water and splinter, which is ejected from the front tire, which leads to rust and rapid wear. Better headsets use rubber lip seals or O-rings (dirty skirt) to try to keep water out, with varying success. External neoprene bands with Velcro fastening are available for wrapping and protecting the lower race and are removable for cleaning. Some cyclists remove the fork and build with a section of the old inner tube above the lower race, which has the same function, albeit with less comfort. On bicycles that are only driven in dry conditions and/or with fenders, the normal failure mode is a progressive emergency in the steering, which is described in the bicycle world as indexing and is caused by boxing of the races or incorrect brinelling, although the term is on the cause is based; real brinelling is only caused by the fact that the ball is axially inserted into the and it is almost impossible to replicate this damage, even if you hit the fork crown repeatedly with a hammer. The pits are far the deepest at the front and back of the head tube and are caused by bending of the fork blades, which is transferred to the steering tube. This misses the bearings and causes ferrets, a small amplitude, great tension movement that rips metal out of the races in the places where the balls rest. [11] The solution is to have a 45-degree interface in the headset where this bending motion can be accommodated, while maintaining the relative orientation of the breeds and allowing the ball bearings to accommodate pure axial and rotating loads. Shimano cartridge bearing headsets do this by letting the cartridges move relative to the pressed cups, while Stronglight roller bearing headsets and most threadless headsets now have loose upper and lower races that can move relative to the cups. Modern headsets therefore rarely suffer from false brinellings. A less common headset error is really a frame error. The head tube can stretch so that a headset cup, which is supposed to be a tight interference fit, can be loosened in the tube. Lugless frames are the most vulnerable; in a towed frame, the tab strengthens the top and bottom of the head tube and usually prevents stretching of this kind. A loose cup can be attached with a holding compound like Loctite 660, and some manufacturers produce slightly oversized cups to counter this situation. It is usually the lower cup that is affected. Add-ons To provide a cable stop for front boom brakes or centerpull brakes, a hanger can be integrated into the headset, either as part of the washer between the top race and the locking nut in the case of threaded headsets, or as part of a distance between the top race and the handle for threadless headsets. 2006: Barnett, John. Barnett's Manual: Analysis and Procedures for Bicycle Mechanics. VeloPress. P. 5:2 to 5:3. ISBN 978-1-884737-87-9. \* Advice on buying headsets. 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