

# Chuku Titanium Quick Release Skewer Set

## Pack Contents:

- 1x 6Al/4V Front Skewer with CNC-machined 7075 aluminium handle and ends (100mm).
- 1x 6Al/4V Rear Skewer as above (130mm).

## 1. Pre-Installation Check:

- Ensure that your hubs and frameset are compatible with standard Q/R 9mm diameter thickness quick release skewers.
- Be aware that there is an 'Open' and a 'Closed' position for the Q/R handle.
- Be aware also that the skewer uses a 'cam' system and must be *closed over* rather than wound shut.

## 2. Original Skewer Removal:

- Open the original skewer handle and undo them by holding the threaded nut and unscrewing the skewer counter-clockwise.
- Withdraw the original skewer from the axle ensuring that the wheels don't fall from the frame dropouts if you have the bike in a workstand.
- Note the direction of chain wrap on the rear cassette and on the derailleur pulley wheels.

## 3. JRC Chuku Rear Skewer Installation:

- Insert rear wheel in the bike dropouts ensuring both it is fully home and that the chain is fitted correctly as observed before removal.
- Insert new skewer so that the handle is on the *left* side (non-drive side) of the bike and the adjustable nut on the right side - this ensures that the rear derailleur isn't fouled by the Q/R handle.
- Hold the Q/R handle at the halfway closed point and tighten the nut until it bites against the frame dropout.

## 4. JRC Chuku Skewer Final tightening:

- Check that the wheel is centred in the frame and *close over* the skewer until it bites securely onto the frame dropouts. Centering the wheel helps to ensure that rim brake pads do not make contact with the tyre sidewall.
- If the skewer handle can be closed over too easily, open the skewer handle again and adjust the skewer nut so as to increase the cam bite force to a point where it is possible to close it but would require deliberate force to open it.
- Finally, ensure that the wheel can rotate freely and that the gears and coasting mechanisms work as they should before test riding.

**5. JRC Chuku Front Skewer Installation:**

- Remove the original skewer and fit the new front Chuku skewer as described above, omitting the chain wrap portion of the instructions and keeping the Q/R lever on the left hand (non-drive side) of the bike.

**6. Pre-Ride Check:**

- As before, ensure the wheel is straight in the dropouts and can rotate freely after securely closing the skewer cam handle mechanism.
- If you encounter any difficulties during fitting, or are unsure about any step, it is recommended that you consult a suitably certified bike mechanic for assistance.

## **Caring for your Chukku Quick Release Skewers**

Your Chukku skewers can be easily maintained and cared for by cleaning and lubricating them periodically, especially after periods of bad weather.

If they are left on the bike after very wet or dirty rides without cleaning they may become difficult to open whenever you need to change a wheel or fix a puncture.

- The main lubrication point is the lever cam system. This looks a little like a ball and socket near the skewer end of the lever. The articulating surface of the cam is made of brass to reduce friction while the ball of the lever rotates on this - this is the ideal place to add some light oil lubrication such as Finish Line or White Lightning Wet Lube to ensure smooth opening and closing of the skewer lever.
- Unscrewing the end nut and removing the skewer entirely from the wheel allows lubricating the skewer itself.
- NB: Take careful note of the orientation of the skewer springs - the narrow ends of the springs always butt against the ends of the axles, **never** the other way around. When fitted incorrectly, the spring may interfere with the axle's fit in the dropout and potentially prevent the wheel being aligned as it should in the frame.

This short maintenance routine will keep your skewers functioning as they should.