

8.8.1 Operate the thru axle

8.8.2 General information

Thru axles are used on both the frame and the fork of CUBE models. All CUBE models use the advanced and reliable 12 mm thru axle system on the frame (MTB + ROAD + TOUR + URBAN) and the fork (ROAD + TOUR + URBAN). Manufacturer-specific 15 mm or 20 mm quick-release thru axles are used on the suspension forks of our MTB models. Further information about 15 mm and 20 mm thru axle systems can be found in the manual for the forks, or on the respective manufacturer website.



Standard thru axle X12

8.8.3 Before installation

Please check the clamping surface and the thread of the thru axle, frame and/or fork for any soiling before installing the thru axle. Dirt and soiling may impair the safety of the axle system. Lightly greasing the axle thread is recommended.

**Risk of personal injury and material damage!**

Important information about the handling and use of thru axles

Always use the tools recommended by the manufacturer when installing the axle. Always use a torque wrench.

Never exceed the maximum torque, as specified by the manufacturer!

Always read the operating manual of the suspension forks and the wheel manufacturer before replacing or operating a fork/wheel combination with a thru axle system.

**Risk of material damage!**

Check the correct fit of the thru axle before every use.

Incorrectly installed wheels and thru axles may cause severe falls and accidents! Please consult your CUBE dealer on how to safely handle the installed thru axle type.

8.8.4 Assembling / disassembling the thru axle

1. Insert the wheel into the fork or frame, and insert the brake disc into the brake calliper.

Make sure the thru axle is inserted straight, to prevent damage to the thread. To prevent damage to the thread and other components, the thru axle must not be tilted or stiff to turn while inserted/screwed in.



2. Secure the thru axle hand-tight with an Allen key.



3. Then adjust the torque to the manufacturer-specified value using a torque wrench, but never exceeding 16 Nm.



4. To remove the thru axle, it must be unscrewed using an Allen key.

8.8.5 Assembling / disassembling a quick-release thru axle

**Risk of personal injury and material damage!**

Always observe the operating manual of the fork manufacturer

**Risk of material damage!**

A folding cam lever is often used on suspension forks to clamp the axle. After screwing in the axle, this lever must be folded and secured hand-tight. Failure to do so may result in the lever working itself loose, at the risk of causing an accident!

8.8.6 Assembling / disassembling a quick-release thru axle on the rear wheel

**Risk of personal injury and material damage!**

Always observe the operating manual of the thru axle manufacturer.

**Risk of material damage!**

Check the correct fit of the thru axle before every use.

1. Insert the wheel into the frame at the same time as attaching the chain and inserting the brake disc into the brake calliper. Make sure the thru axle is inserted straight, to prevent damage to the thread and other components, the thru axle must not be tilted or stiff to turn while inserted/screwed in.



2. Tighten the axle to achieve a secure fit by using the lever and applying manual force. Do not exceed a tightening torque of 16 Nm.
3. If the lever is in a difficult position to apply manual force onto, loosen the lever fastening mechanism on the axle using two fingers. This can be loosened by turning it 180° anticlockwise with two fingers.



The lever can now be pulled slightly away from the axle and turned into any position you choose. To retighten the axle, reposition the lever on the axle in a comfortable position and tighten the torque again.



4. Once you have tightened the axle enough, position the lever so that it points towards the front-end of the bike and slide the lever onto the axle. Now turn the fixing screw 180° clockwise to secure the lever against working itself loose.



5. To release the axle, turn the lever anticlockwise. If you cannot apply enough force to the lever in the current position, follow steps 1 to 4 in reverse. Then you can adjust the position of the lever to make it easier to loosen.

8.8.7 Fork end

Please ensure that the locking screw on the fork ends dropout of the frame (MTB + ROAD + TOUR + URBAN) and the fork (ROAD + TOUR + URBAN) is tightened correctly. The screw is only used to fix the threaded insert in place when the wheelset is removed, and therefore only needs to be fastened "hand-tight".

