

Hitch assembly and adapter selection guide

Each Pullit! is delivered with a coupling that has been designed to fit most bicycle frames and axles and that securely connects the Pullit! to the bike. In some cases, you will also need an adapter or an extended thru axle. You can also find useful information in this video from [fahrradanhänger-direkt.de](https://youtu.be/xlRHDH8llmc):

<https://youtu.be/xlRHDH8llmc>

This guide will help you:

1. to assemble the coupling correctly and safely.
2. to determine whether and which coupling adapter you may need.

Determine the axis type

The first step is to determine the **type of your rear wheel axle**. Generally, there are only **three different types** of rear wheel axles:

Bolt-on axle

The bolt-on axle is firmly connected to the rear wheel hub and has a cap nut or wheel nut on both sides. The bolt-on axle is mainly used for hub gears, single-speed and fix-gear bikes (see picture).



Quick release axle

The characteristic feature of the quick release axle is the tension axle with a diameter of 5mm, which is pushed through the hub of the wheel. The eccentric clamping lever is typically located at one end of the tension axis and an M5 thread with nut at the other end. The quick-release axle is almost always used on bicycles with derailleur gears.



Thru axle

The thru axle is a modern type of hub axle and is mostly used on mountain and all-terrain bikes - mostly in connection with disc brakes. Whether your bike is equipped with a thru-axle system can be clearly seen on the bike frame. This has no so-called open dropout, i.e. the wheel cannot be removed from the frame without removing the axle.



If you now know the type of your rear wheel axle, proceed in the following chapter to the appropriate coupling assembly for your axle type.

Hitch assembly and adapter selection

Bolt-on axle

Step 1

Loosen and remove the cap nuts or wheel nuts on your rear wheel completely. The rear wheel remains in the frame. Leave washers (anti-twist protection!), that may be on the axle, in their position.

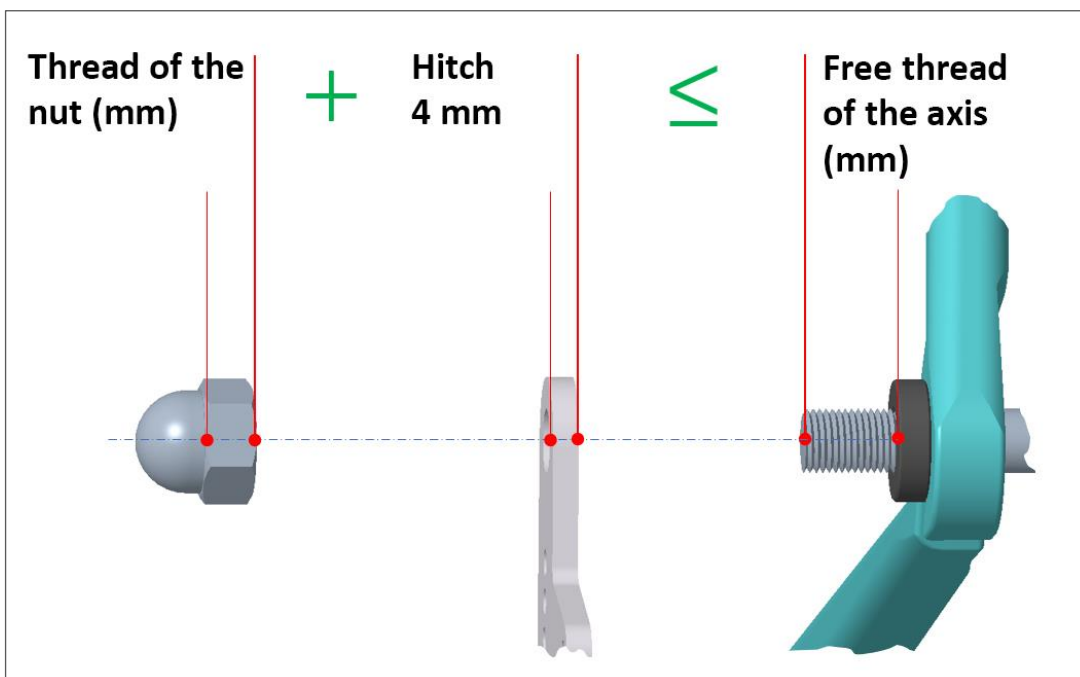
Step 2

Push the coupling (without torque support and the adapter disk for small axle diameters (5mm)) onto the solid axle as far as it will go.

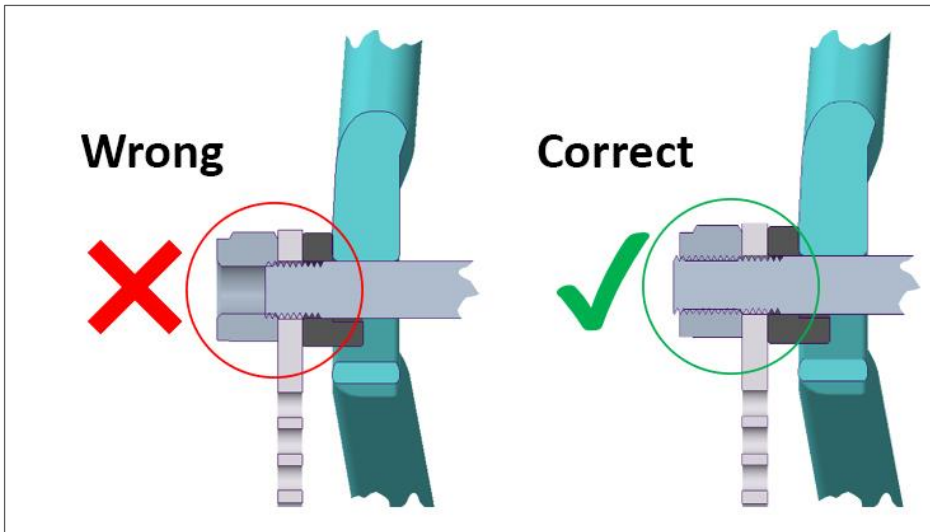
Step 3

Press the rear wheel sideways against the dropout of the bicycle frame to be able to measure the full length of the thread protruding outwards. The thread length available for screwing on the cap nut or wheel nut results as follows:

Required thread length:



Correct assembly:



Result

If the thread length is not sufficient to securely screw on the cap nut or wheel nut, you must use an axle adapter.

Choosing the right adapter

The choice of the correct adapter depends on the thread diameter of your solid axle. Select your hub type and the corresponding adapter from the table below. If your rear hub is not on the list, or you are unsure of which one to choose, ask a bike mechanic at your local bike shop.



Please select the appropriate adapter from the accessories in our shop.

Manufacturer	Modell	Type	Description	Adapter
SHIMANO	Nexus	FH-IM37	Roller Brake Hub	3/8"x26
		SG-3C41	3-Speed Internal Geared Hub w/ Coaster Brake	3/8"x26
		SG-3D55	3-Speed Internal Geared Hub	3/8"x26
		SG-3R40	3-Speed Internal Geared Hub w/ Roller Brake	3/8"x26
		SG-7R46	7-Speed Internal Geared Hub w/ Roller Brake	3/8"x26
		SG-8R56	8-Speed Internal Geared Hub	3/8"x26
		SG-8C31	8-Speed Internal Geared Hub w/ Roller Brake	3/8"x26
		SG-8R36	8-Speed Internal Geared Hub	3/8"x26
		Inter 8	8-Speed Internal Geared Hub (w/Coaster Brake)	3/8"x26
		Inter 7	7-Speed Internal Geared Hub (w/Coaster Brake)	3/8"x26
		Inter 3	3-Speed Internal Geared Hub (w/Coaster Brake)	3/8"x26
	Alfine	SG-S500	8-Speed Internal Geared Hub	3/8"x26
		SG-S501	8-Speed Internal Geared Hub	3/8"x26
		SG-S505	8-Speed Internal Geared Hub w/ Disc Brake	3/8"x26
		SG-S700	11-Speed Internal Geared Hub	3/8"x26
		SG-S705	11-Speed Internal Geared Hub w/ Disc Brake	3/8"x26
	Nexave	IF-C530	Inter-3 Freehub (3x8)	M10x1
		FH-C810	Freehub Dynamo w/ 8 Speed Internal Hub Gear	M10x1
		FH-IM70	Freehub for 8/9 Speed Cassette	M10x1
		FH-IM50	Freehub for 8 Speed Cassette	M10x1
		FH-IM40	Freehub for 7 Speed Cassette	M10x1
	Coasting	SG-3C01	Automatic Shifting Internal Hub Gear	3/8"x26
	SRAM	DD3-30/-27/-24		Internal Gear Hub w/ Cassette
I-Motion 3			3-Speed Internal Gear Hub	M10x1
G8			8-Speed Internal Gear Hub	M10x1
I-Motion 9			9-Speed Internal Gear Hub	M10x1
Torpedo			Single Speed Fixed/Free	M10x1
Spectro		S7	7-Speed Internal Gear Hub	M10,5x1
Spectro		P5	5-Speed Internal Gear Hub	M10,5x1
Spectro		T3	3-Speed Internal Gear Hub	M10,5x1
Spectro		3x7	Internal Gear Hub w/ Cassette	M10,5x1
Dual Drive			Internal Gear Hub w/ Cassette	M10,5x1
Sparc			Electric Hub Motor	M10,5x1
BionX	P500		Electric Hub Motor	M10x1
	P250		Electric Hub Motor	M10x1
	P200		Electric Hub Motor	M10x1
NuVinci	N360		Continuously Variable Transmission	M10x1
Rohloff	Speedhub 500/14		14-Speed Internal Gear Hub	M10x1
Surly			Track and Flip-Flop Hubs	M10x1

Quick release

Step 1

Open the eccentric clamping lever of the clamping axis and loosen the nut on the opposite side. Carefully unscrew the nut from the axle; Be careful not to pull the conical compression spring, which is located between the frame and the nut, off the axle and not to lose it.

Step 2

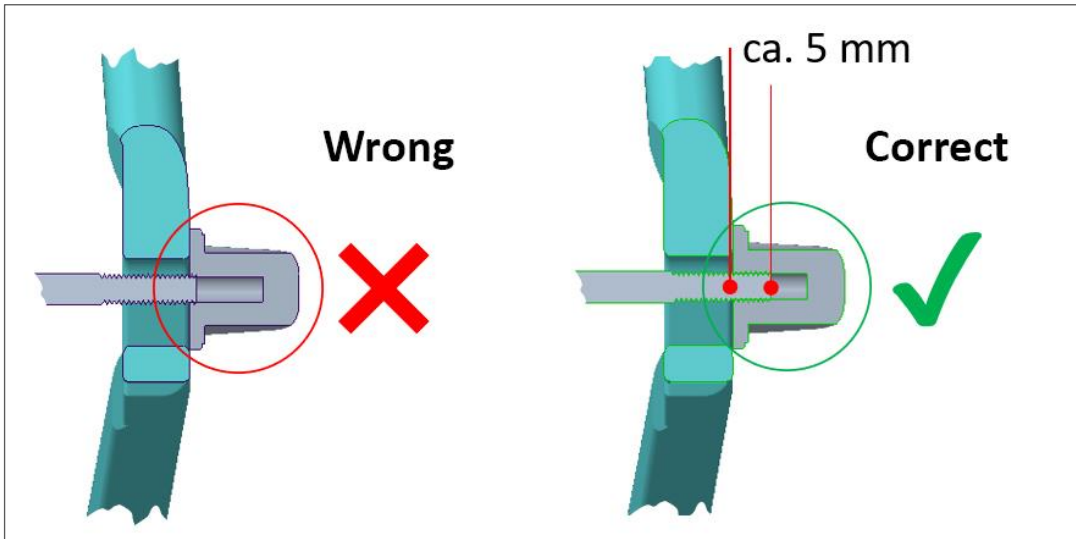
Pull the clamping axle completely out of the hub (there is also a conical compression spring on the axle on the eccentric clamping lever - please do not lose it). The rear wheel remains in the frame. Push the coupling completely onto the clamping axle. Push the clamping axle back through the hub and fasten the nut on the thread. If necessary, you can also turn the clamping axis around and insert it from the opposite side.

Mounting arrangement:



Make sure that at least 5 mm thread length is available for screwing the nut onto the thread of the inserted clamping axis.

Correct assembly:

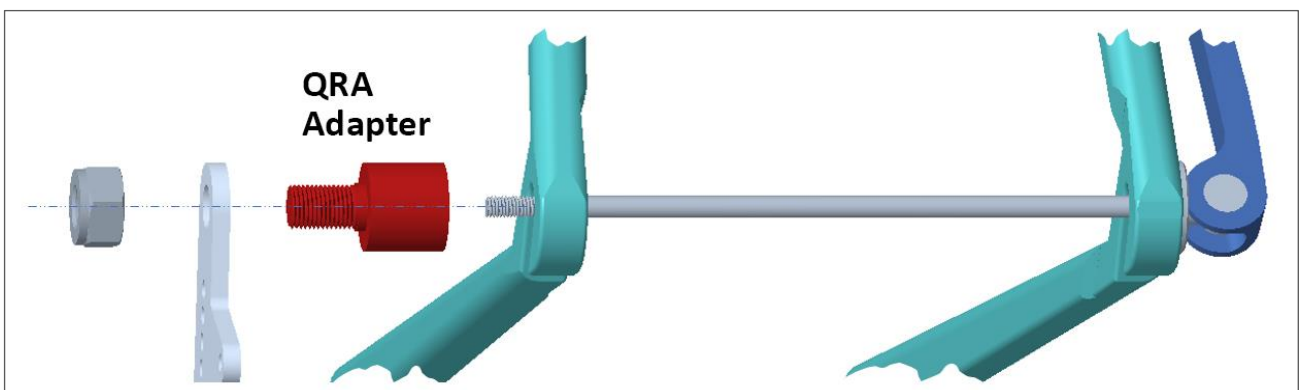


Result

If your clamping axis is too short and the thread length is insufficient for the nut, you must use the QRA adapter for quick release axle.

Selection of the adapter

We offer an optional adapter for quick release axles that extends the quick release axle so that the standard coupling can be mounted. Alternatively, you can also purchase extended quick release axles from specialist bicycle shops. In order to be able to mount the adapter, the quick release axle must be inserted from the right side (in the direction of travel) of the hub (see example).



Please select the corresponding QRA adapter from the accessories in our shop.

Thru axle

To be able to mount the coupling on a bicycle with a thru axle, you need an extended thru axle with an additional threaded connector on the left-hand side. Replace your existing thru axle with one of these thru axles with an additional threaded connector on which the Pullit! hitch can be mounted.



Example of thru axle with threaded connector and nut for Pullit! coupling

Lengthened thru axles that match the type of your existing thru axle are available from specialist retailers.

In the following we have listed some specialist dealers for you who offer a suitable thru-axle with threaded connector for the Pullit! coupling. You can also find instructions on how to correctly select the thru axle on the relevant websites.

<https://www.steckachse.at/produkte/kid-steckachsen/>

<https://www.bike24.de/p1245121.html>

<https://www.fahrradanhaenger-direkt.de/search?sSearch=Steckachse&p=1>

<https://www.burley.com/product/thru-axle/>