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speen*

*SportsEquipmentEngineering

The Umlenker by *speen** is made to convert a derailleur that is basically pulled from the bottom into one, that is pulled from the top. This can happen, if one want to use a road derailleur at Cyclo Cross or a MTB. By using the Umlenker it is not longer necessary to take the normally installed pulley. So the number of moving parts and weight decreases while the risk of failure of these parts do so too.

At a weight of only 7 g (for the CrMoV version) including the screw for installation the Umlenker is even lighter than the pulley with its whole parts necessary.

Some of the frame builders for Cyclo Cross offer to leave the mounts for the pulley if one intends to use the Umlenker. If one want so, one just have to ask for that. The reasons for that are quite obviously. On the one hand the male function of the derailleur is excepted on the other hand, the weakening of the frame material exists no longer. In addition the thermal stressing of the frame material (for isotropic frame materials on welded or brazed frames) is omitted.

Coming with these features, the Umlenker delivers some good reasons to be standard at bikes.



Umlenker FD5600



Umlenker QS2ST1



Umlenker red



Umlenker FSA

*speen** offers the adoption of the Umlenker for several derailleurs of Shimano®, SRAM®, Campagnolo® and FSA®. The compatibility with shifters not stated by the manufacturer of the derailleurs not provided except specially denoted by *speen**. Some frame builders offer to leave the blind rivet by using the Umlenker instead of the standard pulley. This option must be ordered specially.

All Umlenker are to be used with double derailleurs excepted are other specifications below. All Umlenkens marked with the index XC are designated to be used at MTB's. The adoption is only for the derailleur not for the crank set. This means, that it is object of the derailleur if it works with double or triple crank sets. To select the proper model, please use the table below.

The model range of the Umlenker is to be expanded permanently. If *speen** is not supporting a derailleur that is required, one might ask for this at the home page of *speen**.

We suggest to visit the *speen** home page frequently to become up to date about the actual model range of the Umlenker.

*all means all models stated by the manufacturer of the shifter or derailleur.

			Derailleur									
			Shimano®				SRAM®				Campagnolo	FSA®
			FD7800	FD7900 [pre 2010] FD7900 [2010 +]	FD6600 FD6603 FD6700	FD5600	RED22 Force22 RIVAL22	RED® FORCE	FORCE	RIVAL APEX	SuperRecord Record Chorus Athena	Energy Gossammer
Shifter	Shimano	STI Rennrad all*	Umlenker FD7800	Umlenker FD7900	Umlenker FD6600 FD6700	Umlenker FD5600	Umlenker redforcerival22	Umlenker redforce10	Umlenker force09	Umlenker rivalapex	Umlenker QS112STI (11s)	Umlenker fsa
		STI MTB all*	Umlenker FD7800XC	Umlenker FD7900XC	Umlenker FD6603XC FD6700XC	not available	Umlenker redforcerival22XC	Umlenker redforce10XC	n.a.	n.a.	Umlenker QS112STI (11s)	Umlenker fsa
	SRAM	DoubleTap	Umlenker FD7800 FD7800XC	Umlenker FD7900 FD7900XC	Umlenker FD6600 FD6700	Umlenker FD5600	Umlenker redforcerival22	Umlenker redforce10	Umlenker force09	Umlenker rivalapex	Umlenker QS112STI (11s)	Umlenker fsa
		GripShift MTB Trigger all*	Umlenker FD7800 FD7800XC	Umlenker FD7900XC	Umlenker FD6603XC FD6700XC	not available	Umlenker redforcerival22XC	Umlenker redforce10XC	n.a.	n.a.	Umlenker QS112STI (11s)	Umlenker fsa
	Campagnolo®	ErgoPower	not available	not available	not available	not available	Umlenker redforcerival22	Umlenker redforce10	Umlenker force09	Umlenker rivalapex	Umlenker Campy	Umlenker fsa

The installation of the Umlenker is as easy as the principle of the Umlenker. It just have to fixed on the existing derailleur and on it the cable. All parts necessary to affix the Umlenker (one stainless steel screw) are included. The screw for clamping the cable is now more to be screwed into the Umlenker. The exact positioning is provided by the Umlenkers positioning nose. A later turning out of position is excluded by matching the recommended torque of 7 Nm for the fixing screw.

The next steps show how to install the Umlenker proper:

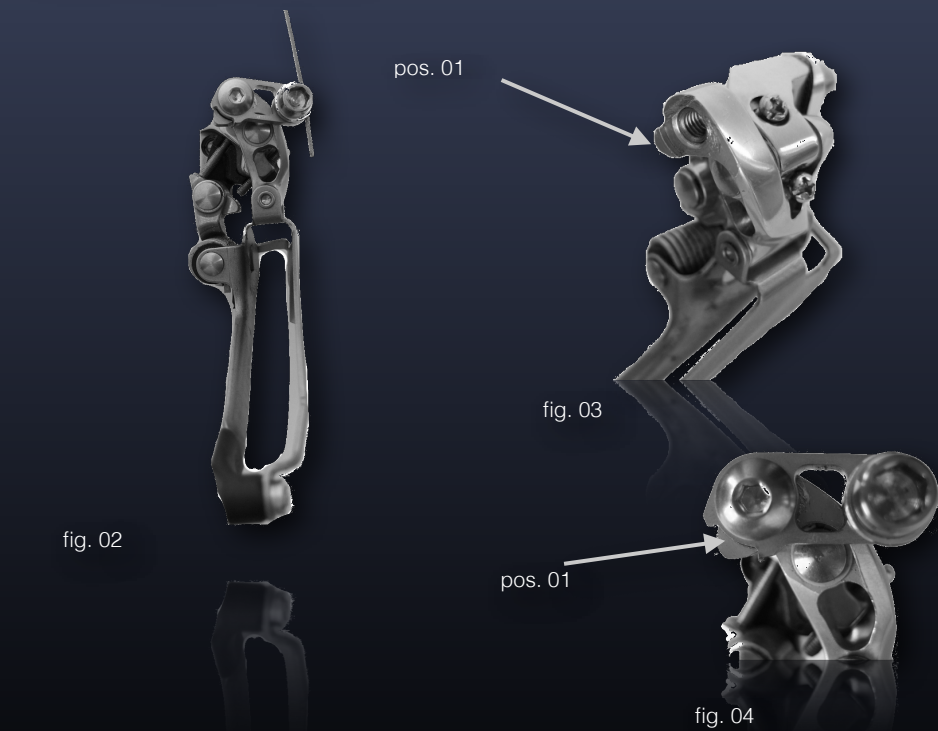
Check the integrity of all delivered parts necessary to install the Umlenker. No other screws or parts except the delivered must be used!

The Umlenker package must content:

- 1 x Umlenker (fig. 1, pos. 1),
- 1 x screw M5* x 10 mm (fig. 1, position 2)

Tools you need in addition to install the Umlenker:

- 1 x allen wrench 3* mm (to fix the Umlenker on the derailleur)
- 1 x allen wrench 5 mm (to fix the cable to the Umlenker)
- 1 x torque wrench 7 Nm
- a drop of medium screw lock



1. Remove the M5 allen screw and the washer that comes with your derailleur by using the 5 mm allen wrench. (see fig. 03).

2. To install the Umlenker (see fig 01, pos. 01) fix it by using the M5* x 10 mm (at 7 Nm) allen screw (see fig. 01, pos. 02) to the now empty arm of the derailleur (see fig. 03). Use medium screw lock for installation! Be sure that the gap of the Umlenker (see fig. 01, pos. 04) fits on the positioning pin (see fig. 03, pos. 01) of the derailleurs arm exactly. The M5** thread (see fig. 01, pos. 03) must be on the outer side of the derailleur (i. e. it faces to the outer guiding plate).

3. Tighten the M5* x 10 mm allen screw using the 3* mm allen wrench and torque wrench to 7 Nm as shown in fig. 04.

4. Install your derailleur if jet not done according to the manufacturers instruction. Strictly follow these instructions!

5.Screw the M5* allen screw an the washer that came with your derailleur into the thread of the Umlenker (see fig. 01, pos. 03) and clamp the cable descending from top. Tighten the screw using the 5 mm allen wrench as recommended by the derailleurs manufacturer. (see fig. 02)

Please visit our website to see a movie about the Umlenkers installation.

*M6 x 10 bolt; 4 mm allen wrench; **M6 thread for Umlenker redforcerival22 & redforcerival22XC