



INSTALLATION INSTRUCTIONS

The DMR Tension seeker is designed to tension the chain when running single speed on a frame with vertical dropouts.



The Tension seeker can be set to apply tension by either pushing up (fig.1) or pushing down (fig. 2) on the chain.



Fig. 1



Fig. 2

The Tension seeker is simple to fit and can be set up and ready to use in minutes. You are going to need the following tools; 2.5 and 5mm Allen keys, 'Cross-head' screwdriver, 'Flat-blade' screwdriver or small lever bar.

Tip 1 For off-road use, a gear ratio of around 2:1 is typical, e.g. 36t at the front 18t or 16t at the rear. Try a higher gear ratio if you are sticking to the street or dirt jumping, e.g. 40t x 16t.

Step 1 Choose a gear ratio to suit your riding style (and strength!) Fit the chain-ring and rear wheel [with sprocket fitted] into the frame, now fit the chain and shorten it as much as possible, leave the minimum of slack. Fig. 3 shows the *maximum* amount of slack that the tension seeker will work with.

Tip 2 Try and select a ratio to give the minimum of slack in the chain. Depending on the number of teeth and the length of the chainstay, it may be possible to reduce the amount of slack in the chain to a minimum by using an even number of teeth front and rear e.g. 36t x 16t or odd/even e.g. 36t x 17t.



Fig. 3

Step 2 Fit the Tension seeker.

Fit the mounting bolt into the frames' rear derailleur mount, do not fully tighten yet.

Step 3 Align the pulley wheel with the chain line. See fig. 4.

Using the 2.5mm allen key, loosen the grub-screw in the base of the arm to allow movement of the pulley bolt, now line up the pulley wheel with the chain line. Make sure it runs in the centre of the chain without excessive contact with the side-plates.

Next, check which way to tension the chain, up or down? See figs. 5 and 6.

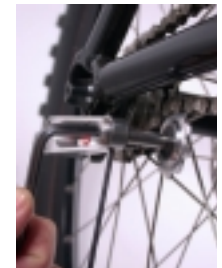


Fig. 4

Tip 3 If there is enough clearance between the chainstay and the Tension seeker, as shown in fig. 5, tensioning up is recommended. (See fig. 1).

Step 4 'Tensioning Up' - Assemble the Tension seeker with the spring in the position shown in fig. 7. Next fit the tension seeker to the frame as before, fit the pulley cage so it encloses the chain. Using a flat-blade screwdriver or small lever bar (see fig. 8), put some tension into the chain by levering round the spring housing, at the same time fully tighten the mounting bolt using the 5mm allen key.



Fig. 5



Fig. 7



Fig. 8



Fig. 9

'Tensioning Down' - to apply tension to the chain downwards, the spring housing needs to be turned over 180° as shown in fig. 9. Mount and tension as outlined above.

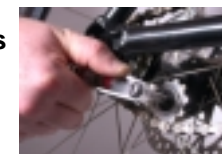


Fig. 6

If more tension is required it can be adjusted up using the small cross-head screwdriver. (See fig. 10)



Fig. 11

For both 'tensioning up' and 'tensioning down', make sure that the spring is correctly fitted into it's housing, as shown in fig. 11. The spring runs in the housing groove, and it's 'hooked' end fits under the small adjuster screw.

All parts are available as spares.



Fig. 10

