How to... sort your rear mech

The **mbr** spannerman shows you how to put an end to graunchy gear changes – grab your tools and read on!

ear set-up problems usually come from a lack of understanding about what the various adjusters on the mech and shifter actually do. The main adjustments on any rear mech are the limit screws and the cable tension. The limit screws control the range of movement the mech has across the cogs. They need to be set so that the mech can access the highest and lowest gears without overriding them and causing the chain to derail or, worse still, to



in Brighton

venture into the spokes! The limit screws are usually marked L and H, for low and high. The low adjuster limits the movement of the mech towards the lowest gear (largest cog) and the high adjuster does the same for the highest gear (smallest cog). Once the limits of a mech are set, they can be left alone as long as the mech or mech hanger doesn't become bent. Cable tension adjusts the indexing of the gears. It can be roughly set at the cable clamp and then fine tuned by barrel adjusters on the mech or the shifter. Minor tweaks are often needed to account for cables bedding in and deteriorating over time. It is essential that the mech and mech hanger are aligned and that the drivetrain is in good condition in order to set up gears correctly. The cables are the most sensitive part of the system; even worn components can be given a new lease of life with some good quality, free flowing cables.





The check that the mech hanger bolts and mech mounting bolt are tight. For a Shadow rear mech ensure that the pin on the back of the mech is tight up against the tab on the mech hanger as shown. If it isn't, undo the mounting bolt, reposition the mech and retighten.

Ensure that the rear wheel axle is mounted fully into the dropouts and that the QR is secure.







Bent mechs can sometimes be straightened by hand, but generally replacing them is the better option.





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pivots move freely. The upper/ main pivot on regular Shimano mechs can be prone to seizure if neglected.

Check for excessive slop in the mech's pivots and jockey wheels. Sloppy mechs give sloppy shifting.

Stiff pivots can often be freed up with penetrating oil if caught





The cable needs to be smooth-running and undamaged. Its path needs to be as short as possible without any acute bends and without hindering steering or suspension action.





Shift to the middle chainring and to the smallest sprocket. Undo the cable pinch bolt and adjust the high limit screw until the upper jockey wheel is parallel to the smallest sprocket.

TOP TIP

ow normal (Rapid Rise) mechs are set up with the same principles except that you work from the other end of the cassette









Shift one 12 click and the chain should shift one cog. Fine-tune with the barrel adjusters until the chain runs quietly. Gears should now be indexed.

Ensure cassette lockrings are tight and there is no hub play, otherwise correct gear adjustment will be impossible

13 largest sprocket (lowest gear) and adjust the low limit screw until the upper jockey wheel is aligned with the sprocket.

Shift to the







Shift through all the gears ensuring they index properly. Check the limit adjustments - try to derail the chain by applying gentle pressure to the mech while pedalling as shown. Make any minor adjustments as required.

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