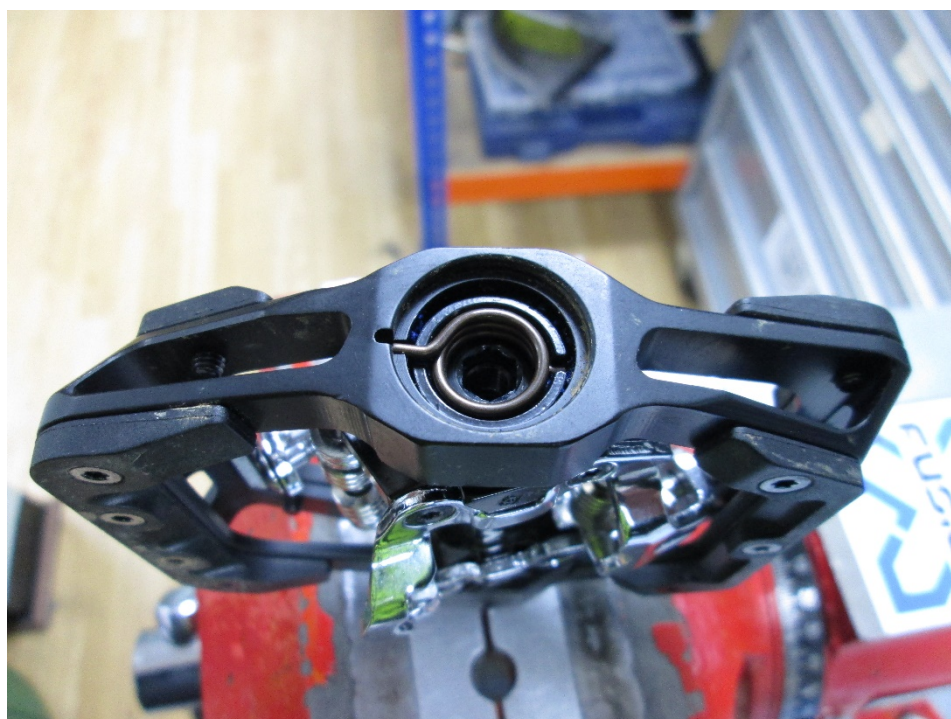




## DMR V-Twin Service Guide



**Tools Needed:** 8mm  $\frac{1}{4}$ " Drive Deep Socket, 6mm & 3mm Allen Keys, Shimano TL-PD40 Tool, Axle Vice & a small deep punch.



Remove your end cap with the 3mm Allen key and remove the spring.

5<sup>th</sup> June 2017



Next, grip the cleat body in a vice to remove the end float nut with the 6mm Allen key.



This will expose the axle nut. Remove the nut to free the axle.

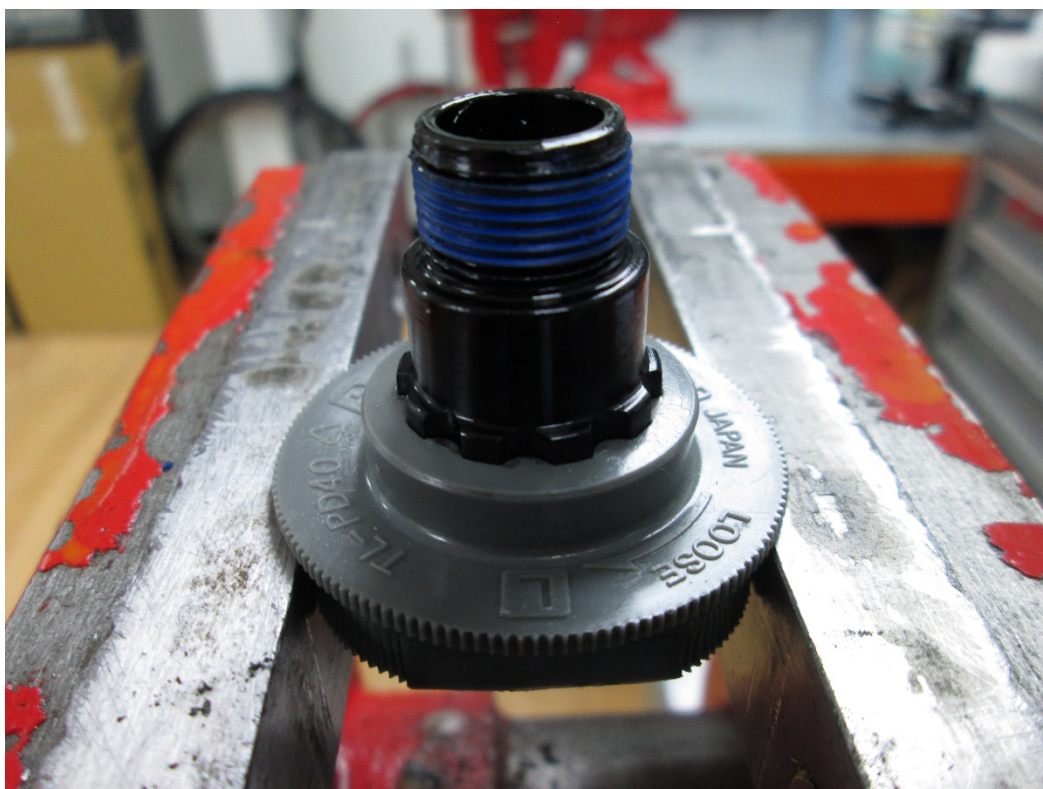
**RH PEDAL USES A LH THREAD, AXLE NUT.**





Using your Shimano TL-PD40 remove the fastener that secures the cleat body to the cage.

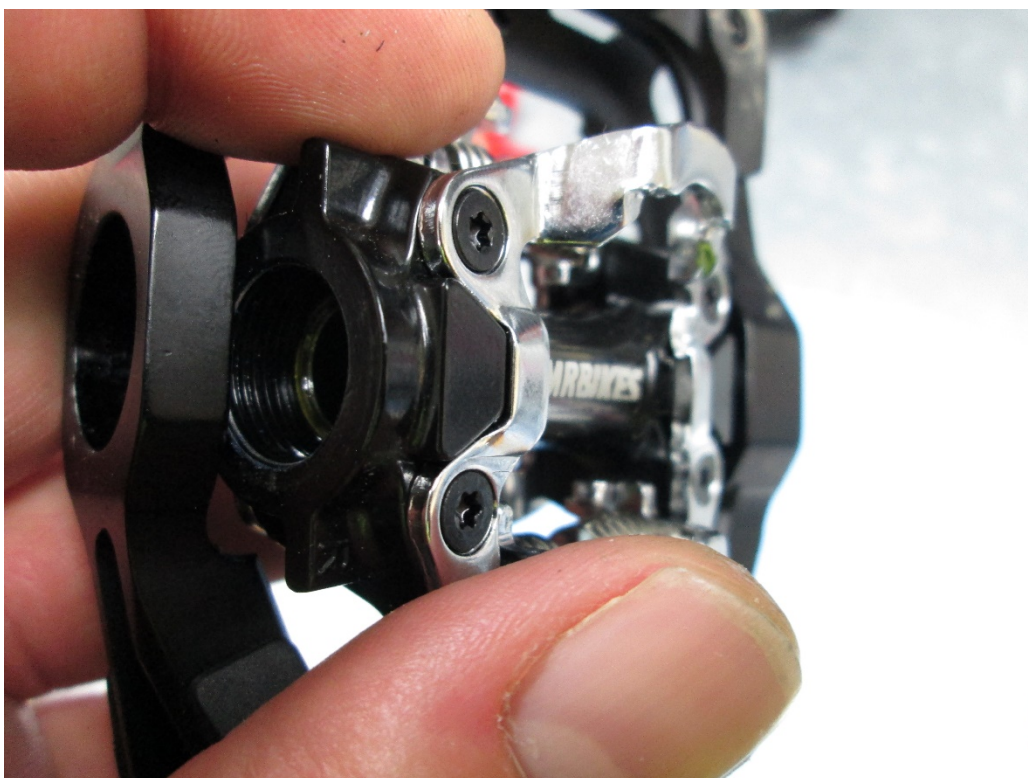
**RH PEDAL USES A LH THREAD, CLEAT BODY FASTENER.**



These can be tight but will release with some elbow grease.

5<sup>th</sup> June 2017

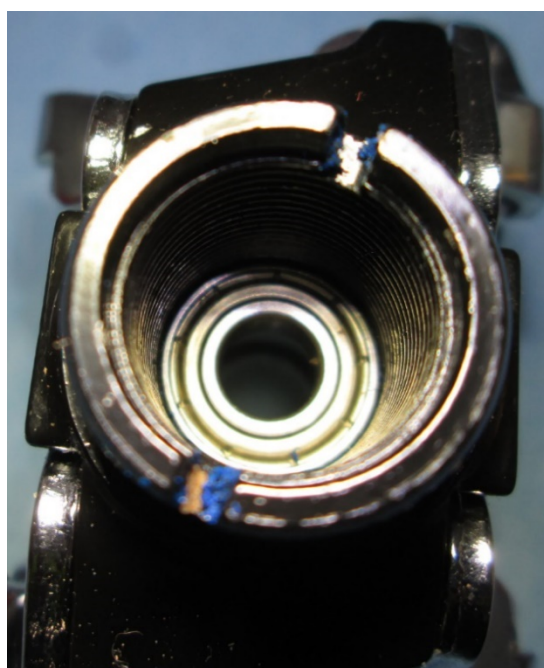




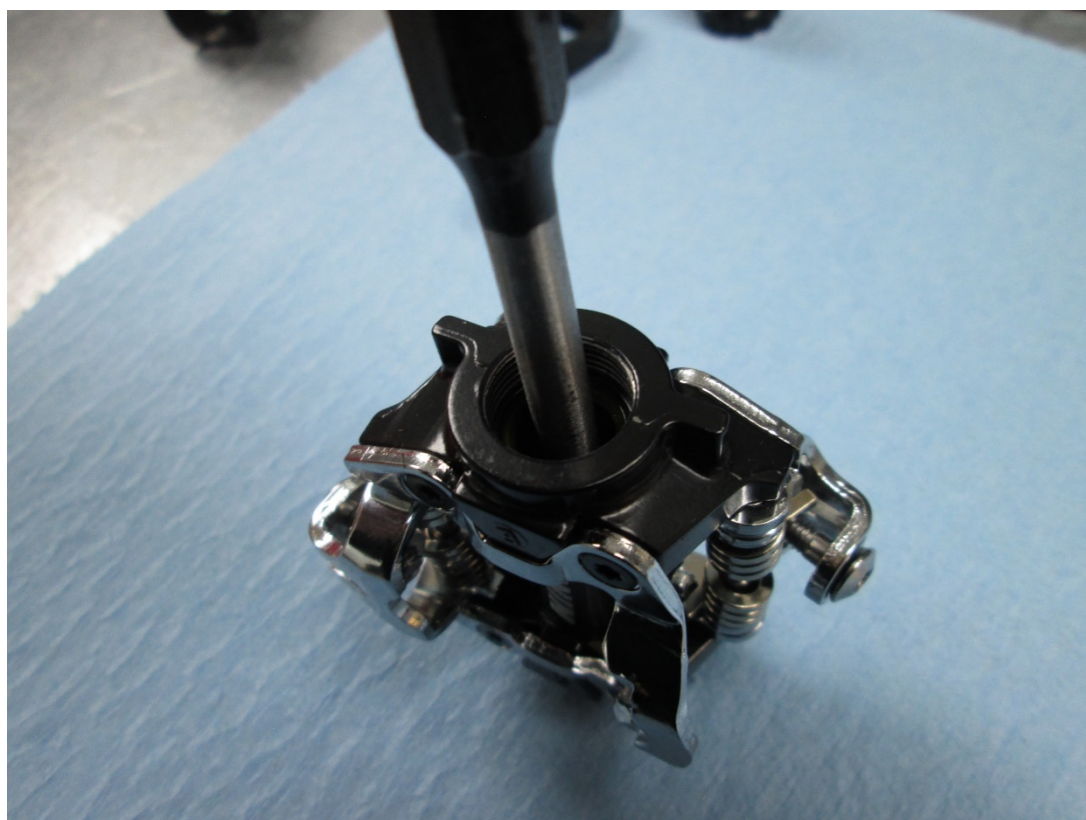
Slide the anti-rotation bumper out from between the cleat and cage and you will then be able to slide the cleat body free from the cage.







Locate the bearing and bushing.



Use your punch to little tap the bushing and bearing out of the cleat body. Be careful to not score the inside if the cleat body.



Thoroughly clean the cleat body inside and out. Apply a thin layer of Loctite 641 bearing retainer around the bushing and press into the cleat body. The bushing has a 'leading' edge which is chamfered, make sure this end of the bushing is inserted into the body first.



Next, use your punch to seat the cartridge bearing into the cleat body.





Use a generous amount of thick grease to cover the bushing load surface.



Apply a thin layer of the thick grease to the cleat body that contacts the pedal cage.



Slide the cleat body back into the pedal cage and insert the anti-rotation bumper.



Apply a light covering of thick grease to the load surface of the cleat body fastener and the pedal cage that the fastener contacts. Thread the fastener back into the cleat body (hand tight) remembering that the **RH PEDAL USES A LH FASTENER.**





Slide your new dust seal over the axle making sure that the chamfered end points toward the axle threads (away from the pedal.

Apply a generous even layer of thick grease to the axle before reinstating the pedal body. If your axles have experienced heavy scoring or 'gouging' replacements can be ordered here...

<http://upgradebikes.co.uk/Catalogue/Pedals/Spares/V-Twin-Axles>





Place the body back over the axle and re-install the retaining nut and wash that secure the axle in the cleat body. Using your 8mm socket, torque this to 10-13Nm remembering AGAIN that the **RH axle uses a LH thread** so please make sure you are tightening in the correct direction.



Install the 6mm end float nut to 15Nm (**Standard RH Thread**), align the pedal cage spring keys with the corresponding cleat keys and fit the spring.





Reinstall your end cap bolt and cover and you are all done. Check for play and make sure everything is tight but free moving and you are good to go and shred!

All available spares can be sourced here....

<http://upgradebikes.co.uk/Catalogue/Pedals/DMR/V-Twin>