

eebrake part upgrade information.

The spring and link upgrade applies only to brakes sold before 11/20/08. Newer brakes come with upgraded springs and links.

Link upgrade

The Link upgrade eliminates play between the link and its mating parts. Under normal use this play is not noticed. As a precaution to assure trouble free operation, new links feature minor changes to remove unwanted play. It is strongly recommended that old links be replaced with new ones. The upgrade is simple and takes 15 to 30min. to complete. Links are provided for free. Upgrade instructions are a part of this document and also in PDF form at eecycleworks.com under the "support" tab. Please contact us via email for new links and provide your mailing current address.

Spring upgrade

The Spring upgrade was done as a result of a few instances where brakes were not returning to the open position quickly and or completely. This condition was due to excessive dirt on the brakes (usually the rear) from riding in the rain etc. Also, some bike setups (such as TT bikes have higher than normal cable friction in the cable housing and brake levers without return springs) had insufficient spring force to adequately return the rear brake to the open position.

The new springs offer greater stiffness providing higher force returning the brake to the fully open position. The new spring has eliminated the problems in the above situations. The new springs also take slightly more pressure to pull the brake lever. Some eebrake users prefer the feel of the weaker springs and elect to use them over the stiffer new ones even though it may require more regular cleaning and maintenance of the brake cables/system to work properly. Upgrading to the new stiffer springs is optional to eebrake users with old springs. The new springs are provided at your request free. All we ask is that you return the old springs in the envelope provided in the new spring package. Upgrade or not to upgrade recommendation: if you have no issues with the snappiness and completeness with which your brakes return to open (particularly on the rear brake) then stick with the old springs and enjoy the softer brake lever feel. Otherwise, contact us for a spring upgrade and we will happily send you new springs. FYI Weight Weenies: all the springs are the same weight.

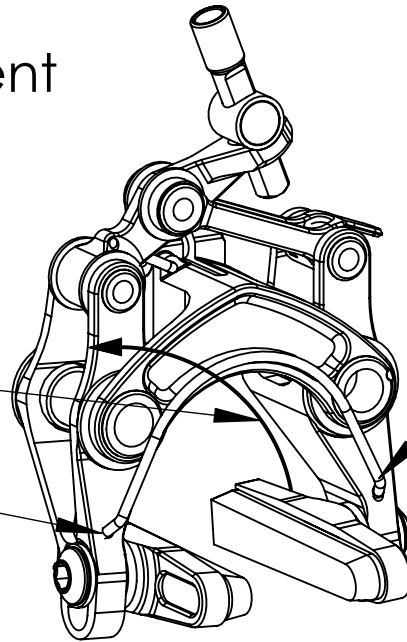
Regards,

eecycleworks

eebrake spring replacement

Estimated time to complete: 5 min.

Tools needed: none.



2. Rotate the spring up 90 degrees. This aligns the flattened part of the spring with the slot in the arm.

3. Pull the spring out of the left side arm.

1. Pull the right side end of the spring from the brake arm. Be careful not to scratch the arm with the end of the spring.

To reinstall the spring, perform the reverse of steps 1-3.

Link upgrade instructions

Estimated time to complete: 10 to 30 min.

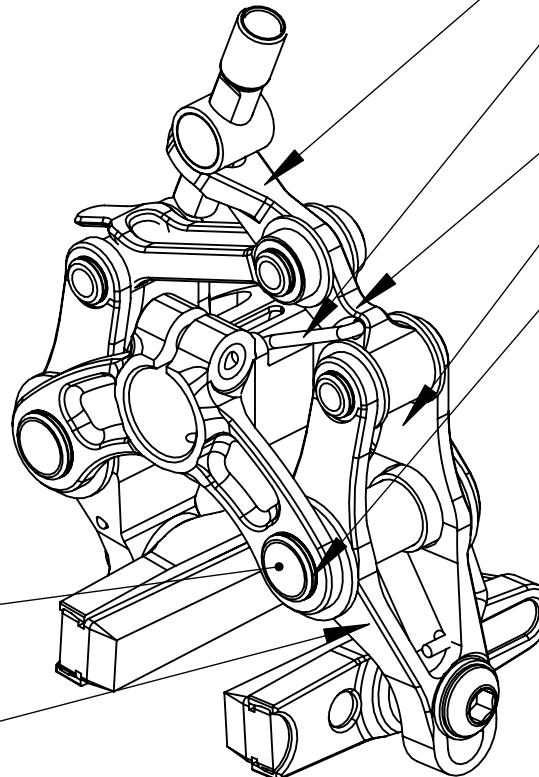
Tools needed: Xacto knife (or similar pointed tool) and 4mm allen key.

1. Remove brake caliper from bike: Loosen cable bolt and slide cable out from under the cable plate. Pull the cable and cable adjuster out of the hole in the brake lever. Remove bridge binder bolt from the brake body. Slide the caliper off the brake mounting bolt.

2. Remove spring - see above.

3. Remove Right side main arm axle: Remove the lock ring from the back end of the axle. With a sharp tool like an exacto knife applied to the end of the lock ring, push the lock ring end out of the groove and over on to the end of the axle. With your fingernail, progressively from the loose end, pull the rest of the ring out of the groove on the axle. Slide the axle out of the front of the brake.

4. Remove the arm/lever assembly from the brake.



7. Work the lever back and forth making sure it pivots feely.

5. Replace the old link with the new one: First put the LONG END of the link into the hole on the lever. Insert the other end into the hole in the brake body.

Lever

6. Slide the arm back into its original position and re-insert the axle.

8. Reinstall the lock ring on the axle: With the lock ring placed on the end of the axle, pull the lock ring end over and into the axle groove. Continue to push the ring over and into the groove progressively from the end in the groove around until all the ring is in the groove.

9. Reinstall spring onto the brake - see above.

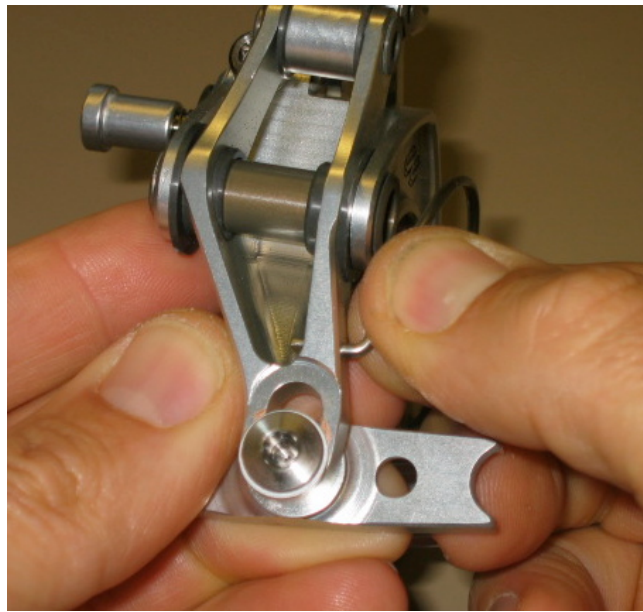
10. Re-install the caliper on the mounting bolt and fix in place with the binder bolt (The reverse of link upgrade step 1).

11. Reset the cable and brake center adjustments and check all bolts for tightness.

12. Check the brake for correct operation.

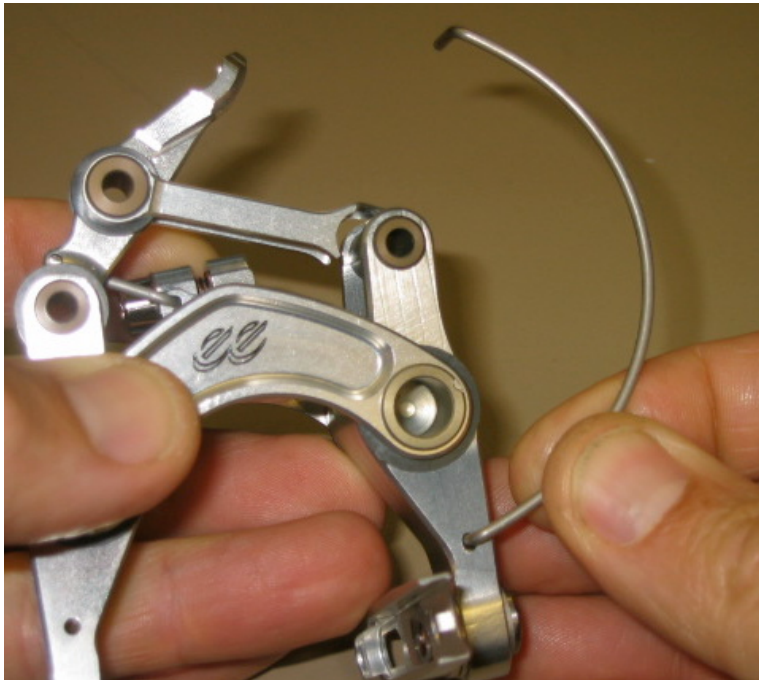
Spring & link and replacement supplement (1 of 3)

Note: this is a supplement
to the eebrake spring
replacement and Link
upgrade instructions.
Figure #s correspond.

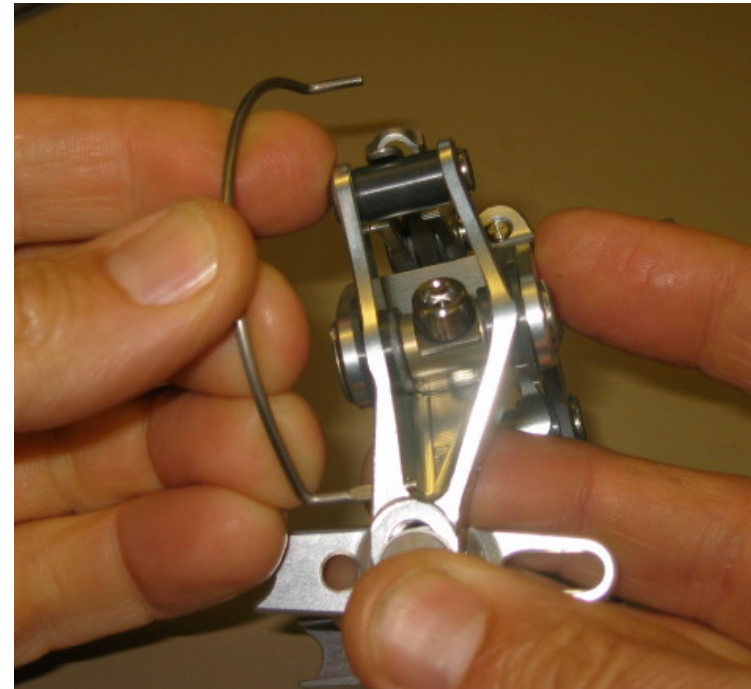


To install the spring: perform the
reverse of steps 1 -3.

1. Pull right side end of spring from arm. Be carefull not to
scratch the arm with the end of the spring.



2. Rotate the left side of the spring up 90 degrees so the flat on
the spring aligns with the slot in the arm.



3. Pull the left side of the spring from the slot in the arm

Spring & link and replacement supplement (2 of 3)

3 A. Remove Right side main arm axle:
Remove the lock ring from the back end of the axle.
With a sharp tool like an exacto knife applied to the
end of the lock ring, push the lock ring end out of the
groove and over on to the end of the axle.

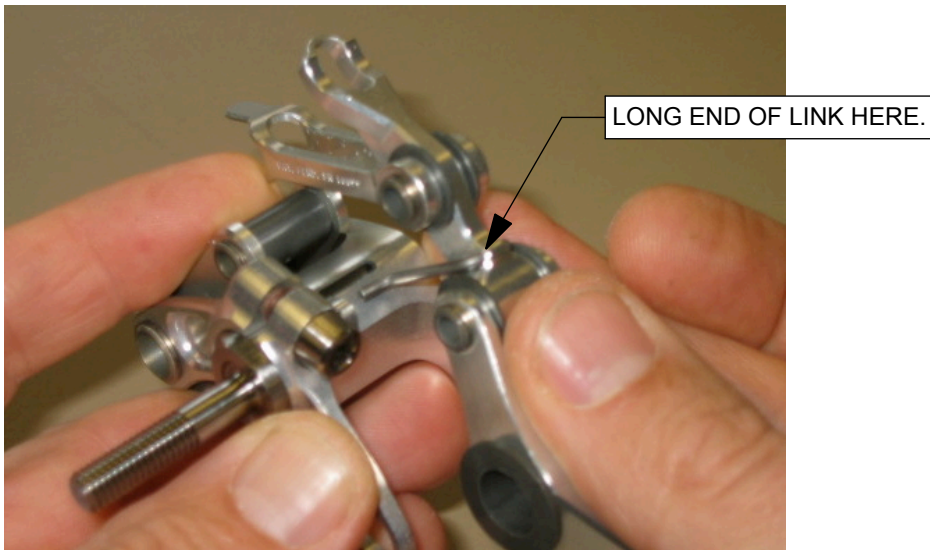


Photo shows end of ring clip out of axle groove.



3B. With your fingernail, progressively from the loose end,
pull the rest of the ring out of the groove on the axle.

Spring & link and replacement supplement (3 of 3)



5. Replace the old link with the new one: First put the LONG END of the link into the hole on the lever. Insert the other end into the hole in the brake body.



6. Slide the arm back into its original position and re-insert the axle.



8A. Reinstall the lock ring on the axle: With the lock ring placed on the end of the axle, pull the lock ring end over and into the axle groove.



8B. Continue to push the ring over and into the groove progressively from the end in the groove around until all the ring is in the groove.