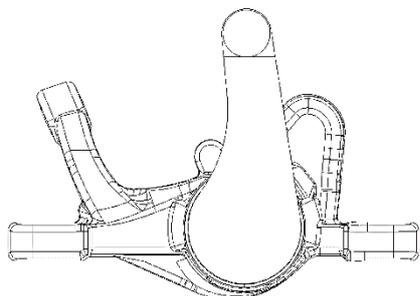




MP1000



NEEDED TOOLS FOR ASSEMBLY AND MAINTENANCE

- 5mm hex wrench
- T25 torx wrench
- Cable housing cutters
- Cable cutters

WARNING - This braking system is designed for use on a single rider bicycle. Use of this system on any other vehicle or apparatus will void the warranty, and possibly causes great personal harm and injury.

WARNING - Disc brakes, calipers and rotors get VERY HOT during regular use. DO NOT touch or attempt to service the rotor or caliper assembly until you've allowed for sufficient cooling to occur.

WARNING - This disc brake offers a significant increase in performance over traditional cable actuated systems. Follow the break-in recommendations listed in this manual. Allow yourself to learn and become accustomed to the characteristics.

WARNING - If your bike is involved in a fall or crash, fully check the brake function including whether the lever, caliper and rotor are securely attached to the bike, the pads are correctly placed and functioning, the cable is operating smoothly and the lever feels firm when actuating the brake. Always have a qualified mechanic check the brakes if you have any doubts.

WARNING - Pad thickness must be at least 0.8mm. Confirm this before each ride. Keep pads clean and free of oil or hydraulic fluid. If pads become contaminated, discard and replace them.

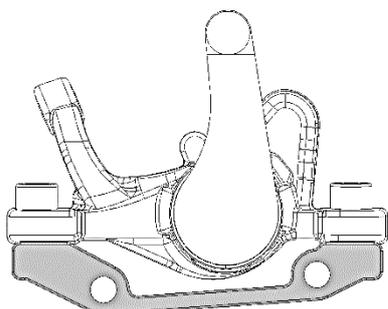
WARNING - Ensure that the cable housing is always secured to the frame and/or fork prior to every ride. Do not ride a bike on which the cable housing could come in contact with the tyres.

CAUTION - Read this manual completely before attempting to install or work on your Elvedes brake. If you are unfamiliar with any element of assembly or maintenance, please consult a qualified mechanic for assistance.

CAUTIONS - Cleanliness is very important part of any maintenance of a disc brake. If the pads or rotor become contaminated with oil, or if the system becomes contaminated with impurities, braking performance will be greatly impaired.

INSTALLING THE BRAKE SYSTEM

Elvedes MP1000 mechanical disc brake can be mounted directly on PM frame or fork mount. For some frame/fork/rotor combinations, it is necessary to use the correct Elvedes PM-PM adapter. Install an Elvedes PM-IS adapter when frame or fork has IS mount.



Torque spec:

Mounting bolts: 6-8 Nm (43-71 in-lb)

Disc Rotor bolts: 4-6 Nm (35-53 in-lb)

Compression-less housing instead of spiral wended housing will improve braking performance of the Elvedes MP1000 mechanical disc brake system. Elvedes $\text{\O}5,0\text{mm}$ braided linear outer cable, combined with the Elvedes stainless steel slick inner cable is recommended, as they may lift excess friction and affect the brake lever return performance. Route housing to minimize tight bends and direct angles.

For road bike handle bar

It's recommended to install a small section of spiral wended housing that inserts into the brake lever body and runs inside or outside the first bend in the bar. (Not all brake lever bodies need a ferrule installed – check with your brake lever's technical documents to decide if a ferrule is needed.) The ends should be filed flat and the liner should be open to eliminate friction. Install a double-ended ferrule.

NOTE: Spiral wended housing can be cut to accommodate bar width and preferences, such as hiding the double-ended ferrule under bar wrap.

Install the compression-less housing on the remainder of the frame or fork. Cut accurately to minimize tight bends and direct angles to optimize the brake lever feel.

Turn barrel adjuster so that it is fully screwed in. Install ferrule on end of the compression-less housing to fit in barrel adjuster.

Feed cable through housing and attach to brake's actuation arm. Confirm cable is tightened well in the fix plate groove. Pull cable tightly, but do not preload brake (see image A).

To align the caliper, reattach the wheel, pull the brake lever firmly to self-align the caliper on the rotor and tighten the caliper mounting bolts 6-8Nm.

Release the lever and check that the pads are aligned equally and that the wheel spins freely. The barrel adjuster may be used to take out cable slack.

Pull brake lever 10 times to stretch cable and seating housing. If the actuating arm is not returning fully, this indicates there is too much friction on the cable that will need to be corrected for the best performance.

Keep in mind that a new inner cable will stretch after initial installation, unless an Elvedes slick (pre-stretched) cable is used.



A. Pull cable and tighten

For flat-bar or other non-dropped bicycle bar style

Elvedes MP1000 mechanical disc brake system is developed to operate with all race style brake levers like Shimano Dual Control, SRAM Double Tap or Campagnolo Ergo Power.

Elvedes MP1000 mechanical disc brake system can also operate with flat bar brake levers for side pull type brake system.

Elvedes MP1000 mechanical disc brake system can be combined with a v-type brake lever. Brake operation will be more direct in this combination.

INSTALLING AND REMOVING BRAKE PADS

Take the pads' pin from the brake system.

Remove the pads and pads' spring from the upper side of the caliper.

Install new pads and spring assembly into the caliper.

Reinsert the pads' pin and confirm it is well hanging the pads and spring.

Repeat for the other caliper and adjust cable or pad alignment if necessary.



B. Take out pads and pin

Disc brakes have a 30-40 cycle brake-in period to achieve optimal pad seating and braking performance. Exercise caution for the first 30-40 cycles each time you replace the brake pads.

SAFETY CHECK

IMPORTANT!

Before every ride:

Spin wheel to be sure rotor is undamaged and aligned.

Check brake pad thickness – if pads are less than 0,8mm, replace.

Check bolt tension, re-torque if necessary.

Check cable and housing for fraying, excessive friction or damage.

Ensure that all cables are secure to frame and/or fork and cannot contact tyres.

For questions about installation, usage or general inquiries, do not hesitate to contact Elvedes through info@elvedes.com.