REVER mcx1

REVER MCX1 MECHANICAL BRAKE INSTRUCTIONS

Thank you for choosing the Rever MCX1 brake system. To ensure the best performance and reliability, please follow the instructions provided. If you have any questions please contact an authorized dealer or Rever representative. Enjoy and ride safely.

⚠ WARNING: CYCLING CAN BE DANGEROUS. BICYCLE PRODUCTS SHOULD BE INSTALLED AND SERVICED BY A PROFESSIONAL MECHANIC. NEVER MODIFY YOUR BICYCLE OR ACCESSORIES. READ AND FOLLOW ALL PRODUCT INSTRUCTIONS AND WARNINGS INCLUDING INFORMATION ON THE MANUFACTURER'S WEBSITE. INSPECT YOUR BICYCLE BEFORE EVERY RIDE. ALWAYS WEAR A HELMET.

Additional Product and Safety Information can be found at —ride-rever.com/safety

INTENDED USE

ASTM Condition 2: Smooth pavement to smooth gravel roads and groomed trails with low-angle grades and drop offs of less than 6" (15cm).

COMPATIBILITY

Brake Levers: The MCX1 caliper is compatible with any short-pull, dropbar lever designed for cyclocross and road riding.

Frame and Fork: The MCX1 caliper features a 74mm Post Mount. It will work with most frames and forks and either 140mm or 160mm rotors, but may require the use of an adapter.

INCLUDED HARDWARE

Qty	Description
1	Caliper
1	Single-piece rotor, 6-bolt, 160mm
2	Disc brake pad
1	140/160mm I.S. adapter
1	160mm PM adapter
1	Kevlar®-reinforced housing with EZ Bend

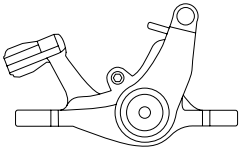
Qty	Description
1	Ultra-slick stainless cable
1	Indexed inline brake adjuster
1	Hooded end cap
2	Lined end cap
2	Cable tip
4	Mini tube top
1	T-25 Torx wrench

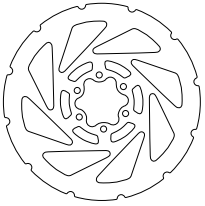
TOOLS NEEDED

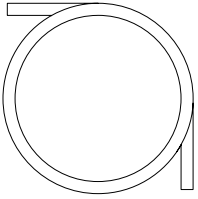
- Cable and housing cutter
- Cable crimper
- Awl
- 3mm hex wrench
- 5mm hex wrench
- T25 Torx wrench
- Torque wrench

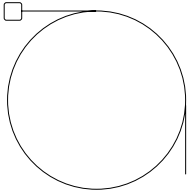
Fork Configuration	Rotor Size	Adapter Needed
140mm Post Mount	160mm	160mm Post/Post Adapter (included)
160mm Post Mount	160mm	None—direct fit
51mm I.S. Tab	160mm	160mm Rever Post/IS Adapter (included)
Frame Configuration		
140mm Post Mount	140mm	None—direct fit
140mm Post Mount	160mm	160mm Post/Post Adapter
160mm Post Mount	160mm	None—direct fit
51mm I.S. Tab	140mm	140mm Rever Post/IS Adapter (included)

Usage Location	Tool
Caliper fixing bolt	5mm hex wrench
Cable fixing bolt	5mm hex wrench
Pad adjustment screws (inboard and outboard)	3mm hex wrench
Pad spring fixing bolt	3mm hex wrench
Rotor mounting bolts	T25 Torx wrench



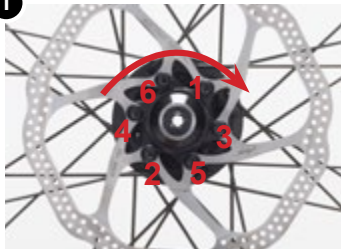






INSTALLATION: REVER DISC BRAKE ROTOR

1



Using gloves, place the rotor onto 6-bolt hub. While applying a clockwise rotation to the rotor, tighten the bolts ¼ turn at a time following the pattern shown. Continue until the bolts are tightened to 6Nm.

2

Install the wheel into the frame and fork per the manufacturer's instructions.

INSTALLATION: REVER DISC BRAKE CALIPER

1

Consult the table to determine if you need an adapter for your frame or fork. If using an included Rever adapter, install and torque fixing bolts to 6–8Nm. If using an adapter from another manufacturer, install according to the manufacturer's specifications.

2

Loosely install caliper onto the frame, fork, or adapter.

INSTALLATION: CABLE AND HOUSING

1

Install EZ-Bend housing into brake lever body, ensuring housing is seated fully.

2

Measure the length of housing needed. Ensure housing makes smooth bends between cable stops and that handlebars can rotate completely in both directions without pulling housing taut.

3

Using a sharp housing cutter cut housing to length.

4

Using an awl, open the cut end of the housing liner. Ensure there are no burrs that can contact the inner wire.

5

Install hooded end cap at end of housing where it meets the caliper. If there are sections of open cable, install lined end caps at those ends of cut housing.

6

If using the included inline adjuster, cut out a 20mm section of housing. Open cut ends of housing and insert into inline adjuster. No housing end caps are needed.

7

Feed cable through brake levers and housing.

8

Feed cable through adjusting barrel and cable fixing plate on the caliper. Do not cut cable until caliper installation and adjustment are complete.

INSTALLATION: FINAL ADJUSTMENTS

1

Pull cable taut and tighten anchor bolt.

2

Pull brake lever until it cannot be pulled further and hold.

3

Alternating from one bolt to the other in quarter turns, tighten caliper mounting bolts to 6–8Nm. Release brake lever.

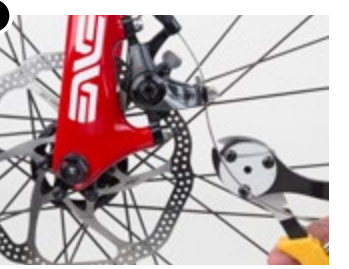
4

Using the caliper mounted barrel adjuster, adjust the cable tension to desired feel.

5

Using a 3mm hex wrench, adjust the outboard and inboard pistons until rotor is centered between brake pads.

6



Once you have reached the desired lever and caliper feel and braking power, cut the cable at the caliper.

⚠ **WARNING**—Do not leave enough cable that it can contact the rotor. If the free end of the cable becomes tangled in the rotor while riding, it could lead to serious injury.

7

Install and crimp cable tip.

DISC BRAKE PAD AND ROTOR BED-IN PROCEDURE

New brake pads and rotors should be put through a wear-in process called "bed-in". The bed-in procedure, which should be performed prior to your first ride, ensures the most consistent and powerful braking feel along with the quietest braking in most riding conditions. The bed-in process heats up the brake pads and rotors which deposits an even layer of brake pad material (transfer layer) to the braking surface of the rotor. It is this transfer layer that optimizes braking performance.

The bed-in process requires you to perform heavy braking. You must be familiar with the power and operation of disc brakes. Braking heavily when not familiar with the power and operation of disc brakes could cause you to lose control of your bicycle, which could lead to a crash and could result in serious injury. If you are unfamiliar with the power and operation of disc brakes, you should have the bed-in process performed by a qualified bicycle mechanic.

Step 1: Accelerate the bike to a moderate speed, then firmly apply the brakes until you are at walking speed. Repeat twenty times.

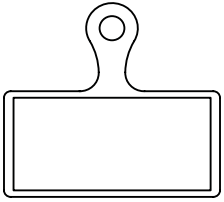
Step 2: Accelerate the bike to a faster speed. Then very firmly apply the brakes until you are at walking speed. Repeat ten times.

ONGOING MAINTENANCE

If you lack proper tools, knowledge, or patience to get the job done right, visit your friendly, professional mechanic for assistance. In the event you lose or break part of your Rever brake caliper, spare parts are available through your local bike shop, or contact Rever directly at info@ride-rever.com.

DISC BRAKE PAD MAINTENANCE

- Do not get oil or grease on the rotor or disc brake pads. This could cause the brakes to perform poorly or not at all
- If while riding, your brake(s) makes noise, it could be caused by pads that are worn past the safe, usable limit. Before checking the pads' thickness, make sure the system has cooled down to prevent injury. Check that the thickness of each pad is 0.5mm or more, not including the thickness of the backing plate
- The Rever MCX1 caliper is compatible with the Shimano® G-Type disc brake pad shape



GENERAL MAINTENANCE

- Always make sure the front and rear brake are working correctly before you ride. Squeeze brake levers and attempt to move bike to ensure cables and brake pads move freely. Check to make sure cables are not frayed and check housing for cracks and corrosion
- The required braking distance will be longer during wet weather. Reduce your speed and apply brakes early and gently
- For best performance, make sure the caliper, rotor, and disc brake pads are free of dirt, mud, ice, or any other contaminants

LIMITED WARRANTY

This Rever product is warranted against defects in materials and workmanship for two years from the date of retail purchase of the product, subject to the limitations detailed below. Save your dated receipt for proof of purchase.

This warranty does NOT cover the following:

- Damage due to improper assembly or follow-up maintenance or lack of skill, competence or experience of the user or assembler
- Products that have been modified, neglected, used in competition or for commercial purposes, misused or abused, involved in accidents or anything other than normal use
- Installation of components, parts or accessories not originally intended for or compatible with the Rever product
- Damage or deterioration to the paint, surface finish, aesthetics or appearance of the product
- Normal wear and tear
- Labor required to remove and/or refit and re-adjust the product within the bicycle assembly

This limited warranty is expressly limited to the repair or replacement of a defective product, at the option of Rever, and is the sole remedy of the warranty. This limited warranty applies only to the original purchaser of the Rever product and is not transferable. This warranty applies only to products purchased through an authorized dealer or distributor. In no event shall Rever be liable for any loss, inconvenience or damage, whether direct, incidental, consequential, or otherwise resulting from breach of any express or implied warranty or condition, of merchantability, fitness for a particular purpose, or otherwise with respect to our products except as set forth herein.

This limited warranty gives the consumer specific legal rights, and those rights and other rights may vary from place to place. This limited warranty does not affect your statutory rights.

TO THE EXTENT NOT PROHIBITED BY LAW, THESE WARRANTIES ARE EXCLUSIVE AND THERE ARE NO OTHER EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS INCLUDING WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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