MAGURA DISC BRAKE ROTOR

Assembly instructions

MAGURA
PERFORMANCE COMPONENTS

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1 Introduction

Dear Customer,

Please read the assembly instructions carefully and keep them in a safe place for later reference. Please observe and follow all warnings, information and the described steps in these instructions. These assembly instructions are only valid in conjunction with the user manual for your MAGURA disc brake. If you pass on your MAGURA disc brake rotor or MAGURA Centerlock adapter to someone else, ensure that you also hand over these assembly instructions. Only use your MAGURA disc brake rotor or MAGURA Centerlock adapter once you have read and fully understood the contents of these assembly instructions. You can find more information about MAGURA products at www.magura.com. If you have any questions, please contact us via the contact form or via our social media chats on Facebook and Instagram.

2 Safety instructions

2.1 Types of pointers used

These instructions contain four different types of pointers. These are highlighted in grey and marked with a specific symbol.

Note: Important information about your brakes and their use.

Warning: This symbol warns of misuse which could result in damage to the product or the environment.

Danger: This symbol indicates a possible risk to your life and health.

Important bolted connection: Make sure that the correct tightening torque is maintained at all times.

2.2 General safety instructions

Only carry out installation and maintenance work if you have sufficient technical skills and the proper tools.

If you do not have sufficient technical knowledge, have assembly and maintenance work on your brakes carried out by a specialist workshop for bicycles or an authorised MAGURA service centre.

Never carry out any work or make any changes to your MAGURA product that are not expressly authorised and described in the MAGURA user manual.

Always adhere to the specified tightening torques for bolted connections and use a torque wrench during the installation.

When installing and maintaining your brakes, use only MAGURA original parts – MAGURA disc brake rotors, brake pads, adapters and bolts, as well as MAGURA Royal Blood (mineral oil) when bleeding/filling.

2.3 Intended use

Any use other than the intended use can cause accidents that can result in serious injuries or even death.

MAGURA disc brake rotors are exclusively developed and designed:
- for use with MAGURA disc brakes and MAGURA brake pads
- for use with wheels which have hubs with the corresponding mounting option for the disc brake rotor
- for the specified area of application
- to withstand the permissible total weight

Use / Compatibility of disc brake rotors

Not all disc brake rotor types are available in all diameters specified here.

Never fit or use STORM SL disc brake rotors on S-pedelecs, pedelecs, cargo bikes or tandems.

Only use disc brake rotors with a thickness that has been approved for the respective brake in accordance with the user manual.

Only use MDR A disc brake rotors with brakes which have a wear limit of t=1.6 mm explicitly stated in the user manual.

Only use MDR S disc brake rotors with a thickness of 2.5 mm in conjunction with MAGURA brakes if their compatibility has been confirmed in the corresponding user manual.

Loss of insurance cover for S-pedelecs that are required to have insurance (e-bikes up to 45 km/h).
For S-Pedelecs, only use MAGURA disc brake rotors and brake pads that comply with the manufacturer's original vehicle specifications or MAGURA disc brake rotors and brake pads that have the ECE or KBA approval mark for components on motor vehicles that require approval. Never change the dimensions of your disc brake rotors.
Always carry your general operating permit with you.

MAGURA Centerlock™ adapters have been designed to mount MAGURA 6-hole disc brake rotors on a Centerlock™ hub.
MAGURA Centerlock™ adapters are designed:

- for use in combination with the following MAGURA disc brake rotor types:
  STORM, STORM HC, STORM SL 2, MDR C and MDR S up to a maximum diameter of 203 mm

Never use MAGURA Centerlock™ adapters with MDR P disc brake rotors.

Never use MAGURA Centerlock™ adapters in conjunction with the ABS sensor rings.

- for use with wheels with hubs with the Centerlock™ mounting option for the disc brake rotor.
- for mounting with a suitable Centerlock™ lockring

Use a MAGURA lockring for the corresponding axle (quick release or thru axle) on your hub.

3 Mounting MAGURA disc brake rotors

Disc brake rotors are sharp-edged and there is a risk of injury when handling.

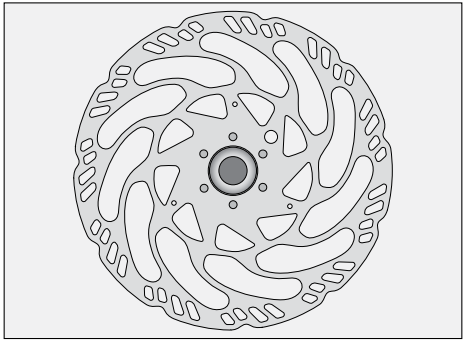
Please do not touch the disc brake rotor while it is rotating or immediately after braking. This can cause injuries or burns.

Mount the disc brake rotor so that the direction arrow on the disc brake rotor points in the direction of rotation (forwards) of your wheel.

If necessary, mount the quick-release lever of the front wheel on the right-hand side so as not to impair the correct functioning of your disc brake rotor.

3.1 Mounting MAGURA 6-bolt/8-bolt disc brake rotors

Place the disc brake rotor on the hub flange.



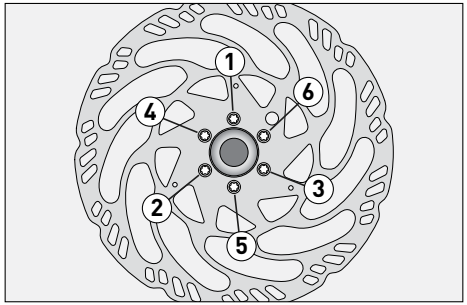
The eyelets of your disc brake rotor must lie exactly over the threaded holes of your hub.

Use the Torx retaining bolts supplied with the disc brake rotor to secure the disc brake rotor.

The MDR-S 8H 203 disc brake rotor requires special bolts with a flat head.

Affix new bolt-locking devices (medium-strength) to all retaining bolts.

Turn the retaining bolts two to three turns clockwise by hand.
Turn the disc brake rotor against the direction of rotation of your wheel as far as it will go.
Use a Torx25 spanner to tighten the retaining bolts on your disc brake rotor crosswise in a clockwise direction.



The tightening torque of the MDR S 8H 203 is stated in the specifications of your hub manufacturer.

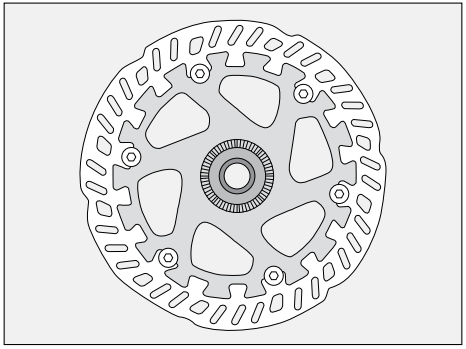
The tightening torque of the other types of disc brake rotors is 6 Nm (53 lbf-in).

Thoroughly degrease your disc brake rotor with brake cleaner or alcohol.
If you have mounted a new disc brake rotor, always mount new brake pads as well to ensure that your entire brake system is functioning properly.

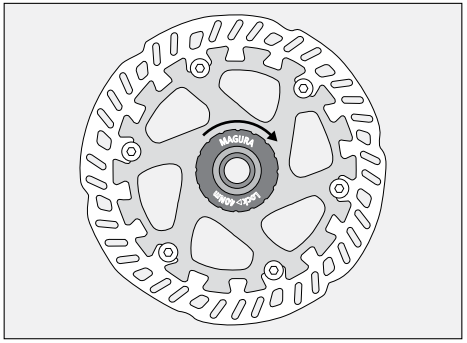
The brake pads must be undamaged and free of grease/oil.

3.2 Mounting MAGURA Centerlock™ disc brake rotors

Put the disc brake rotor onto the Centerlock™ flange of your hub.



Screw the lockring clockwise onto the hub flange by hand.



Tighten the lockring of your disc brake rotor using the appropriate tool:
- external gearing (ParkTool™ BBT-69.2...), primarily for thru-axle hubs
- internal gearing (ParkTool™ FR-5.2 ...) primarily for quick-release hubs

and by turning it in a clockwise direction.

The tightening torque for the other types of lockrings is 40 Nm (354 lbf-in).

Thoroughly degrease your disc brake rotor with brake cleaner or alcohol.

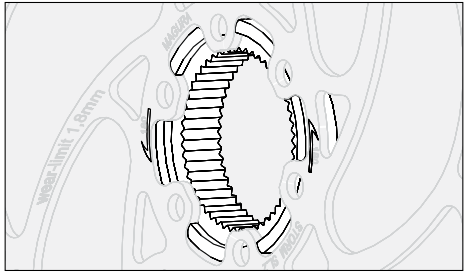
If you have mounted a new disc brake rotor, always mount new brake pads as well to ensure that your entire brake system is functioning properly.

The brake pads must be undamaged and free of grease/oil.

3.3 Mounting MAGURA Centerlock™ adapters

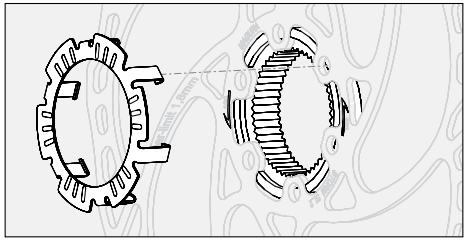
Attach the Centerlock™ adapter to the disc brake rotor from the rear.
The six hubs of the Centerlock™ adapter must lie between the six eyelets of the disc brake rotor.

Fit the Centerlock™ adapter so that the direction arrow on the disc brake rotor is at the front.



Insert the six hooks of the spring washer through the six eyelets of the disc brake rotor.

The hooks of the spring washer must noticeably engage on the Centerlock™ adapter.



Mount your brake disc with Centerlock™ adapter on your hub as described under 3.2.

Never use MAGURA Centerlock™ adapters in conjunction with ABS sensor rings.

Centerlock disc brake rotors with their own sensor ring are available for use with ABS.

4 Bedding-in the brakes

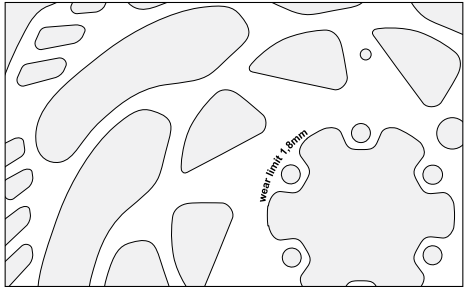
Brake pads and disc brake rotors only develop their full braking force during the bedding-in phase. As such, it is always important to bed-in your new disc brake rotors and brake pads. Accelerate to 20 km/h (12 mph) multiple times on a flat road and brake until you slow to 5 km/h (3 mph). Repeat the process until no further improvement in braking force is noticeable.

Bed-in each brake (front and rear wheel) separately. Your brakes should now be bedded in and offer optimum braking performance.

5 Checking disc brake rotors for wear

Check your disc brake rotors regularly for wear and damage (cracks, deformation, etc.).

The wear limit depends on the type of disc brake rotor installed. The minimum disc brake rotor thickness (wear limit) is noted on the disc brake rotor.



Measure the disc brake rotor thickness with a suitable calliper gauge.

6 One final note

All dimensions specified should be interpreted as referring to when new, taking into account the usual tolerances applicable to production in accordance with DIN EN ISO 22081.

ⓘ Check out our worldwide partners and service centres at **www.magura.com**

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Printed in Germany
2600859 – 02-2025