



# BOSCH

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## Service and repair tips from Bosch: Brake discs

As a strong partner with extensive expertise in brakes, we offer your workshop everything you need for the efficient maintenance and repair of brake systems: first-class products, reliable service offerings and efficient diagnostic technology.

### Scoring or grooves on the friction surface



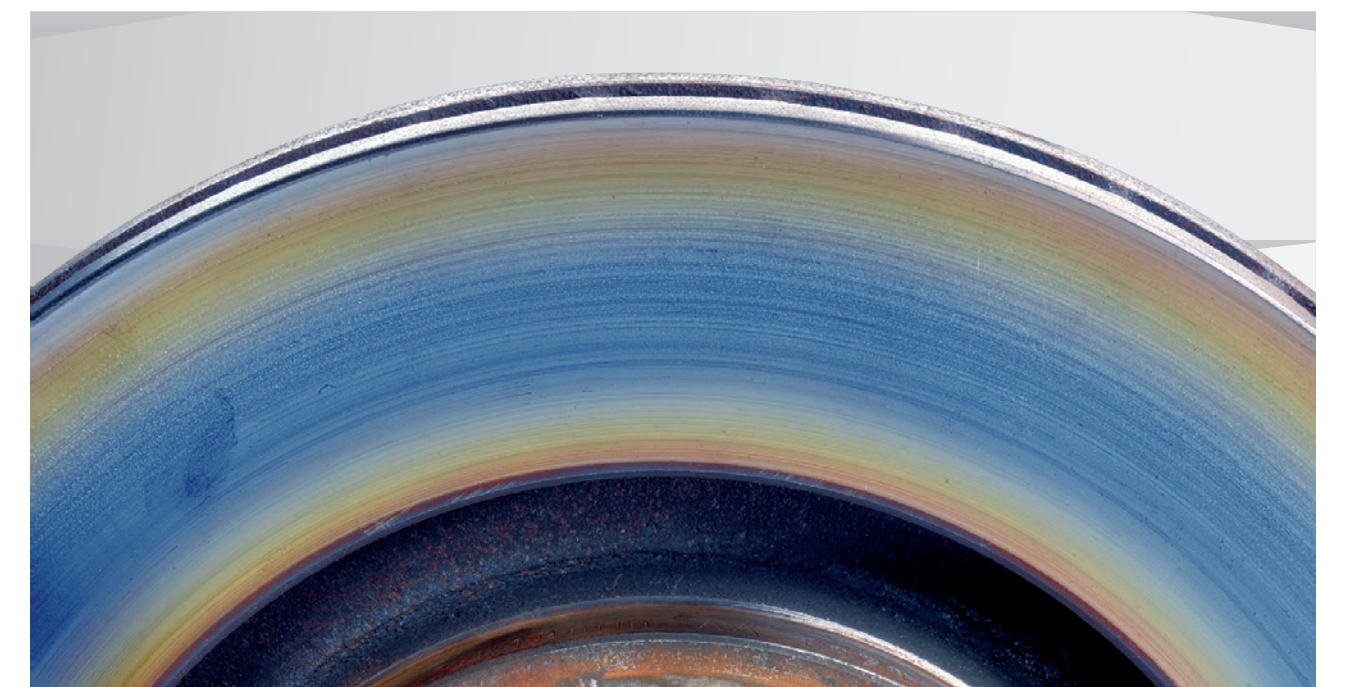
- Cause:**
- ▶ Dirt particles on brake disc and pad
- Effect:**
- ▶ Brake noise
  - ▶ Rubbing effect during braking
  - ▶ Reduced braking performance
- Recommendation:**
- ▶ When changing the brake discs, always change the brake pads as well

### Uneven wear



- Cause:**
- ▶ Uneven function of the brake caliper
  - ▶ Run-out of the brake disc
- Effect:**
- ▶ Poor and/or irregular braking performance
  - ▶ Vibration in the steering wheel
  - ▶ Pulsing effect in the brake pedal
- Recommendation:**
- ▶ Check the brake caliper and wheel hub when installing new brake discs

### Blue surface discoloration



- Cause:**
- ▶ Overheating due to jammed or seized brake pads
  - ▶ Vehicle driven with activated or seized parking brake
  - ▶ Brake caliper piston is sticking
- Effect:**
- ▶ Rubbing effect during braking
  - ▶ Overheating
- Recommendation:**
- ▶ Check the entire brake system
  - ▶ Ensure that the brake caliper is functioning properly

### Indentations on the contact surface



- Cause:**
- ▶ Improper cleaning of the contact surfaces
  - ▶ Damage to the contact surfaces through contamination
  - ▶ Distortion of the wheel hub
- Effect:**
- ▶ Increased lateral run-out of the brake discs
  - ▶ Chattering and rubbing effects
- Recommendation:**
- ▶ Clean the contact surface of the brake disc and the wheel hub before mounting new brake discs
  - ▶ Do not use paste lubricants (copper paste, etc.)

### Corroded friction area



- Cause:**
- ▶ Impact of corrosive substances (e.g. road salt, cleaning agents)
  - ▶ Damage through water or lack of use – low demand on the brakes
- Effect:**
- ▶ Noise during braking
  - ▶ Irregular braking performance
- Recommendation:**
- ▶ Replace brake discs and pads
  - ▶ Instruct the customer to occasionally stress the brakes by applying pressure appropriately (bed in the brakes)



### Count on Bosch:

- ▶ High market coverage: over 95%
- ▶ Matching solutions for all current vehicles
- ▶ Comprehensive OEM expertise
- ▶ Precise fit and easy assembly
- ▶ Reliable and fast delivery service

For more information, visit: [www.bosch.com](http://www.bosch.com)



To see the disc brake installation video: