

If your customer is complaining a squeaking of the car during the brake operation this could have many causes. If the complaints are arising after the renewal of the pads you should check the following items:

- 1. Installation:** In our installation instructions we pointed out, that before the installation of new Brake Pads and Brake Discs all the components of the braking and steering system must be checked for wear and / or damage (caliper, piston, guiding and sealing elements, wheel bearings, transmission and suspension parts). All these components must be cleaned and replaced if necessary.
If these components are not smooth, it may come to annoying screeching noises right after the installation or after driving a short distance.
- 2. Measures to reduce noise:** Metal-free permanent lubricant should be applied on the functional parts of the backing plate (all parts in direct contact with the caliper and brake pistons). Therewith you can not only achieve better contact of the functional parts but also avoid any vibrations that generate noise. On the backside of the backing plate there often are anti noise shims. This shim must not be forgotten and/or removed. We recommend the application of a small portion of metal-free permanent lubrication in between backing plate and shim and also shim and piston.
- 3. Combination Brake Discs and Brake Pads:** Not every combination of discs and pads is perfectly matched. For this reason, we recommend a combination of Zimmermann Brake Disks and Zimmermann Brake Pads. The matching of friction material and disc material was optimized already in development.
- 4. Running-in and driving behaviour:** Unfortunately, there is also feedback of squeaking brakes, although the installation was perfect and all brake components are alright. Usually this is caused by the overload of the braking system during the running-/breaking-in phase.
The breaking-in causes the brake disc to heat up gradually without a thermal shock and serves to adapt the friction surfaces of the brake disc and pad to each other. This provides for optimal braking efficiency and brake comfort. It may come to glazing of the pads when the system is fully loaded too early. But even only light brakings can lead to glazing. In this case, the glazed surface will be removed again by 2 or 3 stronger brakings.
Please point out also to your partners that the running-in recommendations are passed on to their customers.