

TECHNICAL TIPS

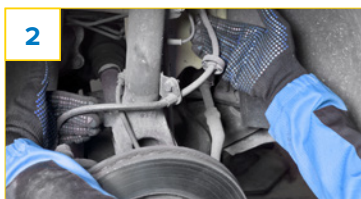
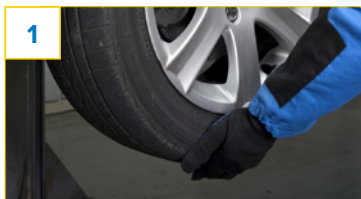
N°2: SOLVING NOISE PROBLEMS

TIPS FOR CORRECT REMOVAL

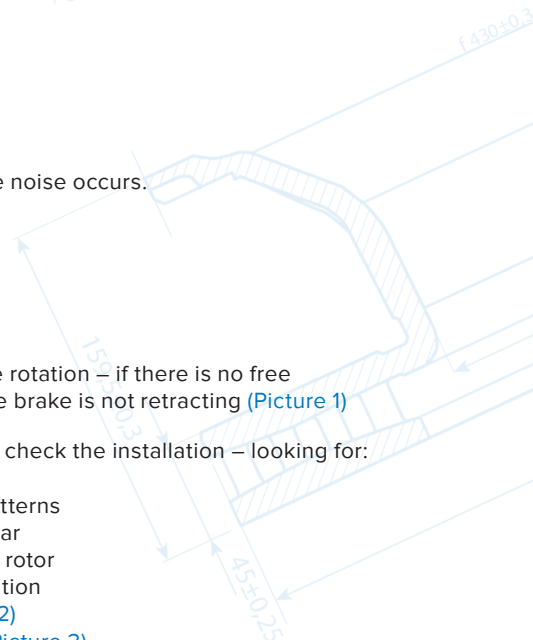
► RAKE PAD REMOVAL

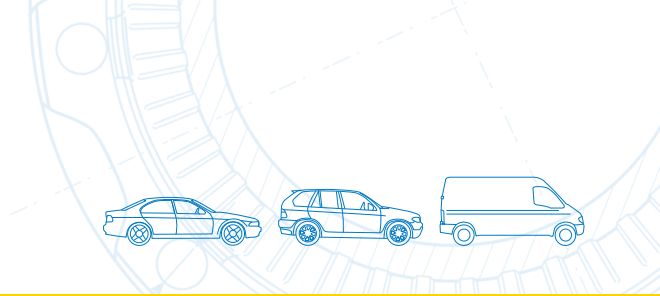
If a road test is possible, carry this out first, and note the conditions under which the noise occurs.

► REMOVAL PROCESS



- Jack up the vehicle
- Check the wheel for free rotation – if there is no free rotation, it means that the brake is not retracting (Picture 1)
- Remove road wheel and check the installation – looking for:
 - score marks
 - uneven bedding patterns
 - uneven or taper wear
 - corrosion lip on the rotor
 - disc thickness variation
 - fluid leaks (Picture 2)
 - slide pin damage (Picture 3)
- Check that the correct pads are fitted
- Check that the pads are the correct way round in the caliper
- Confirm that the pads are the correct way up in the caliper
- Check that the pads fit freely in the brackets
- Check that all caliper clips and springs are present and correct (Picture 4)
- Remove the pads and examine the friction surfaces to analyse potential problems which may be related to noise





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► SYMPTOMS

TAPERED PADS



APPEARANCE	Uneven wear, tapered pads
CAUSES	Distorted caliper, caliper slides sticking, excessive caliper clearance
EFFECT	Premature pad wear, uneven braking pressure, noise
REMEDY	Replace pad set, maintain & service caliper
NOTE	Some vehicles use pads that are tapered by design. Refer to the specific vehicle application, and if the tapering is beyond the normal specification, replace the brake pad

UNEVEN WEAR



APPEARANCE	Uneven wear on pad surface
CAUSES	Irregularly worn brake disc (a wear lip will be visible on the disc)
EFFECT	Squeal & judder , premature pad wear
REMEDY	Replace brake discs and pads

UNEVEN WEAR WITHIN AXLE



APPEARANCE	One or more brake pad within the axle set will be excessively worn
CAUSES	Caliper guide pins / piston sticking
EFFECT	The vehicle pulls to one side while braking, uneven & rapid pad wear, squeal & judder
REMEDY	Maintain all caliper slides & pistons, replace pads. Check discs

DAMAGED BACK PLATE



APPEARANCE	Damaged back plate
CAUSES	Incorrect assembly, excessive force used during fitting
EFFECT	Braking inefficiency, irregular wear, noise & judder
REMEDY	Replace full brake pad set

PISTON DAMAGE



APPEARANCE	Anti-noise features (rubber-coat / shim) damaged by piston
CAUSES	Piston not retracting fully, heavy brake use
EFFECT	Overheating, noise
REMEDY	Replace brake pad set, maintain caliper