

N°2 | NOISE



SOLVING NOISE PROBLEMS TIPS FOR CORRECT REMOVAL

BRAKE PAD REMOVAL

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

REMOVAL PROCESS



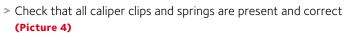
- > Jack up the vehicle
- > Check the wheel for free rotation if there is no free rotation, it means that the brake is not retracting (Picture 1)

YOU'RE IN CONTROL

- > 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





> Remove the pads and examine the friction surfaces to analyse potential problems which may be related to noise







SYMPTOMS



APPEARANCE Uneven wear, tapered pads

CAUSE 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

CAUSE 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

CAUSE 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

CAUSE 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

CAUSE Piston not retracting fully, heavy brake use

EFFECT Overheating, **noise**

REMEDY Replace brake pad set, maintain caliper