

Service Information

Mazda Motor Corporation

3-1, Shinchi, Fuchu-cho, Aki-gun
Hiroshima 730-8670, Japan
TEL : 81(82)287-5323
FAX : 81(82)287-5220



Category P	Technical	Ref. No. E008/09	Page 1 of 2
Coverage <input type="checkbox"/> Distributor only <input checked="" type="checkbox"/> Please inform your dealers		Date Issued February 3, 2009	
Please convey this information to your <input type="checkbox"/> Director <input checked="" type="checkbox"/> General Manager <input checked="" type="checkbox"/> Warranty Dept. <input checked="" type="checkbox"/> Parts Dept. <input checked="" type="checkbox"/> Training Dept. <input checked="" type="checkbox"/> Field Rep.		Date Revised	
Applicable Model All Models		Applicable Countries or Specifications Worldwide	

Subject: Service Points for Brake Judder

DESCRIPTION

Our warranty claim data analysis reveal that technicians are tend to replace the disc plate and disc pads together in order to correct brake judder issue. In most cases, however, it is not necessary to replace both disc plate and disc pads unless there is unevenness or fade on the disc pad.

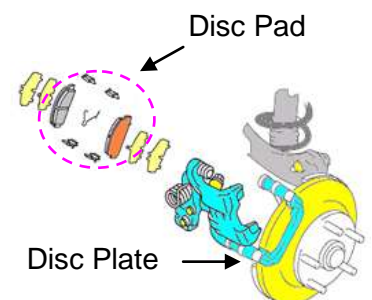
Please be aware that basically the disc pads do not need to be replaced. However, if it needs to be replaced, please do not replace parts other than needed.

1. Mechanism of Brake Judder

The cause of most of brake judder issues is uneven thickness of brake rotor. (Even micron-size unevenness could cause the judder.) Due to this, the clearance between the two disc pads and rotor gets wider then narrower, which generates excessive force.

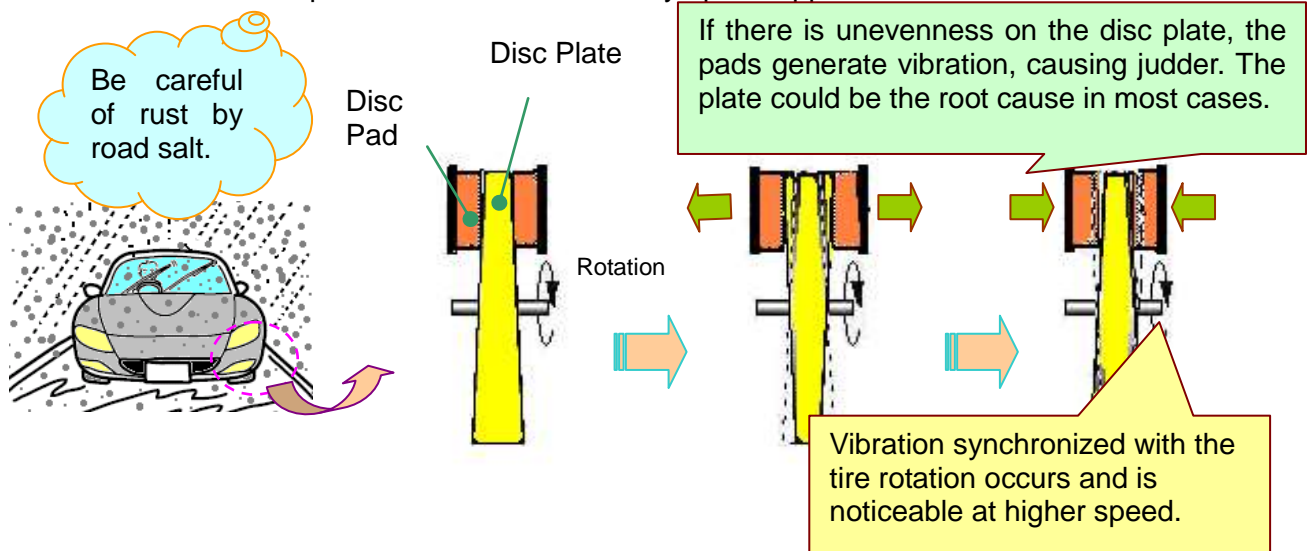
The force is transmitted to the brake pedal through the suspension and brake piping system.

The factor of the unevenness in the rotor is rust, heat deformation and pad dragging, etc.



Basically the disc pads do not need to be replaced to repair the brake judder.

When you encounter a customer complaint on the brake judder, please be sure to check the disc plates to see what kind of symptom appears on them.



2. Example of Action To Be Taken

Please be aware that basically the disc pads do not need to be replaced. However, if they need to be replaced, please do not replace parts other than needed.

Diagnose which wheel generates the judder and how the disc pads affect it.

Rust

Confirm the driving mode / circumstances of the vehicle with the customer, then machine the disc plate using an on-the-car lathe. If it is not sufficient, then replace the disc plate and sandpaper the disc pads.

Heat Deformation

Confirm the driving mode / circumstances of the vehicle with the customer, then please machine the disc plate using an on-the-car lathe. If it is not sufficient, then check to see if the disc plate and pads need to be replaced.

Pad Dragging

Look for the factors of the pad dragging. Machine the disc plate using an on-the-car lathe, or replace the disc plate and sandpaper the disc pads.

Note: During disc plate replacement, make sure that the hub is free from foreign substances. If any, the disc plate cannot be fitted straight, which will cause recurrence of the brake judder.



Shinji Kanai
Manager, Technical Information Gr.
Technical Service Dept.
Mazda Motor Corp.