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Service Category: Brake	Section: Brake (rear)	
Model Year: 2008	Model: ES350	Doc ID: RM0000025RN001X
Title: BRAKE: REAR BRAKE: INSPECTION (2008 ES350)		

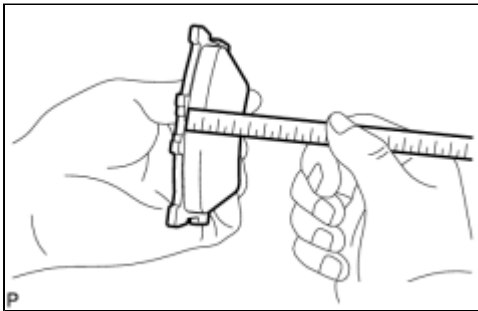
## INSPECTION

### 1. INSPECT BRAKE CYLINDER AND PISTON

- (a) Inspect the cylinder bore and the piston for rust or scoring. If necessary, replace the rear disc brake cylinder assembly and piston.

### 2. INSPECT PAD LINING THICKNESS

- (a) Using a ruler, measure the pad lining thickness.



Standard thickness:

11.0 mm (0.433 in.)

**Minimum thickness**

1.0 mm (0.039 in.)

If the pad lining thickness is less than the minimum, replace the brake pads.

**HINT:**

Be sure to check wear of the rear disc after replacing the brake pad with a new one.

### 3. INSPECT NO. 1 REAR DISC BRAKE PAD SUPPORT PLATE

- (a) Inspect the No. 1 rear disc brake pad support plate. If necessary, replace the No. 1 rear disc brake pad support plate.

**HINT:**

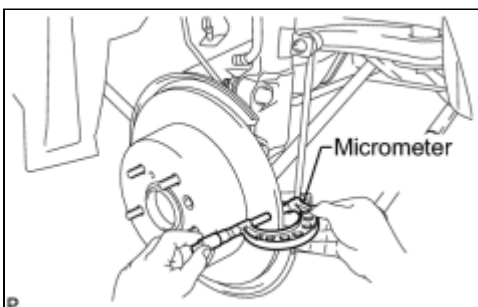
Make sure that it has sufficient rebound, and has no deformation, cracks or wear, and all rust and dirt are cleaned off.

### 4. INSPECT NO. 2 REAR DISC BRAKE PAD SUPPORT PLATE

**HINT:**

Inspect the No. 2 rear disc brake pad support plate using the same procedure with the No. 1 rear disc brake pad support plate. If necessary, replace the No. 2 rear disc brake pad support plate.

### 5. INSPECT DISC THICKNESS



- (a) Using a micrometer, measure the disc thickness.

Standard thickness:

10.0 mm (0.390 in.)

**Minimum thickness**

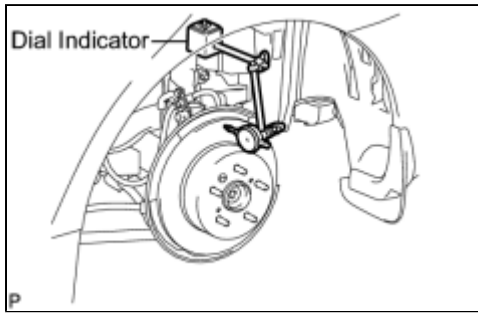
8.5 mm (0.334 in.)

If the disc thickness is less than the minimum, replace the rear disc.

## 6. INSPECT DISC RUNOUT

- (a) Install the rear disc. INFO
- (b) Temporarily fasten the rear disc with the 3 hub nuts.

**Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)**



- (c) Using a dial indicator, measure the disc runout 10 mm (0.39 in.) away from the outer edge of the rear disc.

Maximum disc runout:  
0.15 mm (0.0059 in.)

### NOTICE:

- Keep the magnet of the dial indicator away from the axle hub and speed sensor.
- Install the dial indicator to the shock absorber.

- (d) If the runout exceeds the maximum value, change the installation positions of the disc and axle so that the runout will become minimal. If the runout exceeds the maximum even after the installation positions are changed, check the bearing play in the axial direction and the axle hub runout INFO. If the bearing play and the axle hub runout are normal and if the disc thickness is not within the specified range, grind the disc. If the disc thickness is less than the minimum, replace the disc.
- (e) Remove the 3 hub nuts.
- (f) Remove the rear disc. INFO

