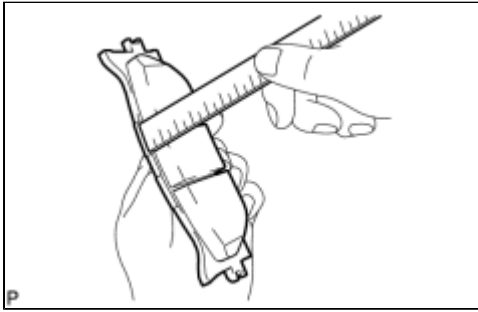


Last Modified: 7-13-2007		1.6 G
Service Category: Brake	Section: Brake (front)	
Model Year: 2008	Model: ES350	Doc ID: RM0000022JN001X
Title: BRAKE: FRONT BRAKE: INSPECTION (2008 ES350)		

## INSPECTION

### 1. INSPECT PAD LINING THICKNESS

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



Standard thickness:

12.0 mm (0.472 in.)

**Minimum thickness**

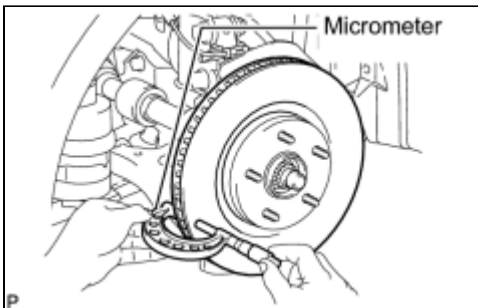
1.0 mm (0.039 in.)

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

#### HINT:

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

### 2. INSPECT DISC THICKNESS



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

Standard thickness:

28.0 mm (1.102 in.)

**Minimum thickness**

25.0 mm (0.983 in.)

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

### 3. INSPECT BRAKE CYLINDER AND PISTON

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

### 4. INSPECT FRONT DISC BRAKE PAD SUPPORT PLATE

- (a) Inspect the front disc brake pad support plate. If necessary, replace the front brake pad support plate.

#### HINT:

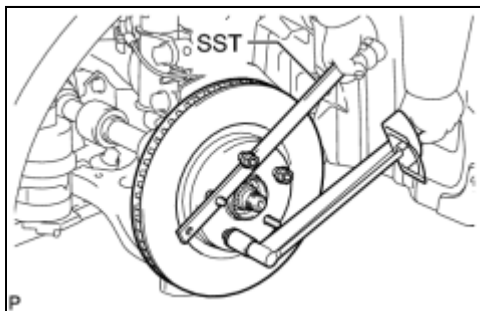
Make sure that the pad support plate has sufficient rebound, has no deformation, cracks or wear, and that all rust and dirt are cleaned off.

### 5. INSPECT DISC RUNOUT

- (a) Using SST to hold the disc, tighten the disc with the 3 hub nuts.

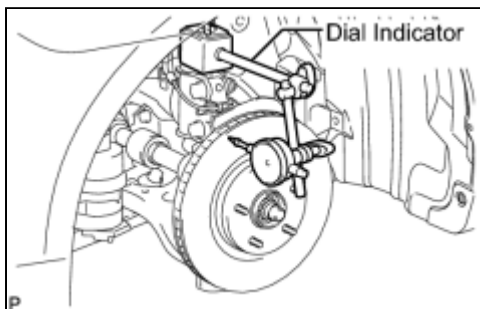
SST: 09330-00021

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



**HINT:**

Use the SST to hold the disc while tightening the nuts.



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

Maximum disc runout:

0.05 mm (0.0020 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.

(c) 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.

(d) Remove the 3 hub nuts and the front disc.

