



## Removal

1. Remove the front wheel & tire.

### Tightening torque:

88.3 ~ 107.9 N.m (9.0 ~ 11.0 kgf.m, 65.1 ~ 79.6 lb-ft)

2. Loosen the hose eyebolt (B) and caliper mounting bolts (C), then remove the front caliper assembly (A).

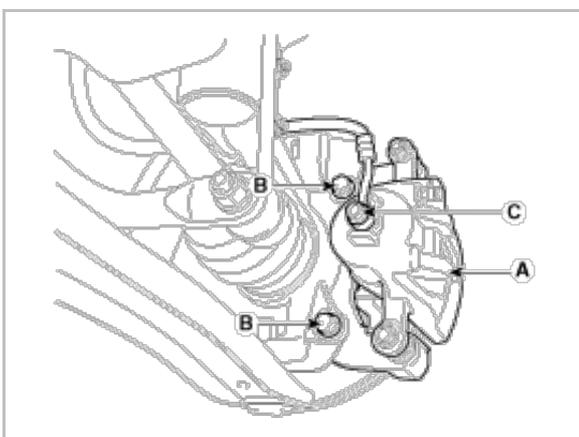
### Tightening torque:

Brake hose to caliper:

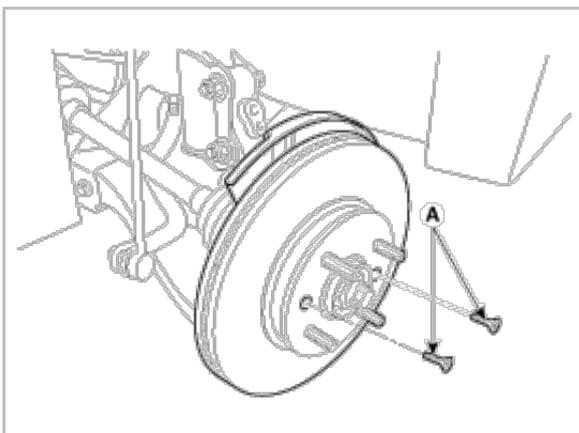
24.5 ~ 29.4 N.m (2.5 ~ 3.0 kgf.m, 18.1 ~ 21.7 lb-ft)

Caliper assembly to knuckle:

78.5 ~ 98.1 N.m (8.0 ~ 10.0 kgf.m, 57.9 ~ 72.3 lb-ft)



3. Remove the front brake disc by loosening the screws (A).



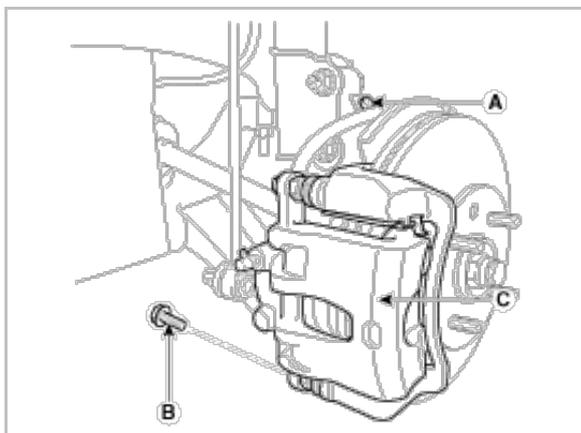
## Replacement

### Front Brake Pads

1. Remove the brake hose mounting bracket bolt (A).

### Tightening torque:

6.9 ~ 10.8 N.m (0.7 ~ 1.1 kgf.m, 5.0 ~ 8.0 lb-ft)



- Loosen the guide rod bolt (B) and pivot the caliper (C) up out of the way.

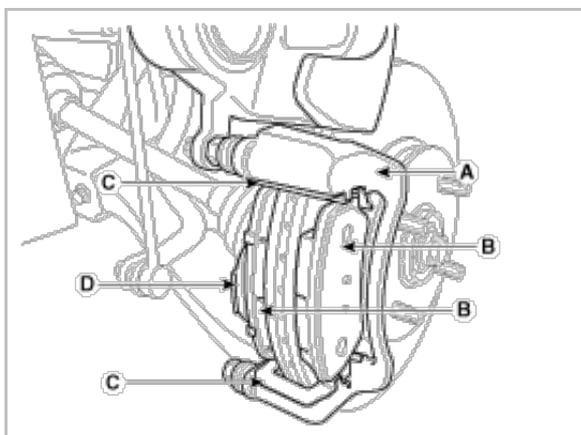
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**Tightening torque:**

21.6 ~ 31.4 N.m (2.2 ~ 3.2 kgf.m, 15.9 ~ 23.1 lb-ft)

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- Replace pad shim (D), pad retainers (C) and brake pads (B) in the caliper carrier (A).



## Inspection

### Front Brake Disc Thickness Check

- Check the brake pads for wear and fade.
- Check the brake disc for damage and cracks.
- Remove all rust and contamination from the surface, and measure the disc thickness at 8 points, at least, of same distance (5mm) from the brake disc outer circle.

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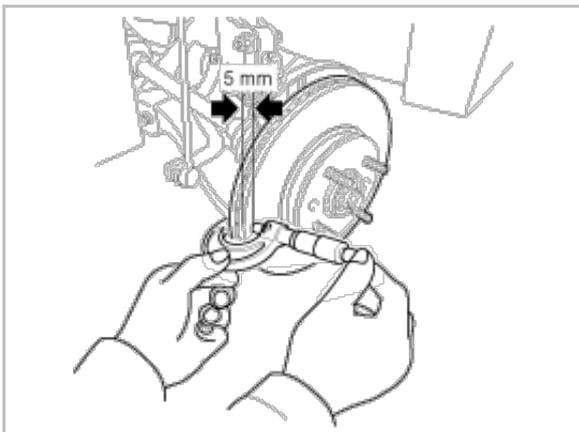
**Brake disc thickness**

Standard: 22 mm (0.866 in)

Service limit: 20 mm (0.787 in)

Deviation: Less than 0.005 mm (0.0002 in)

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- If wear exceeds the limit, replace the discs and pad assembly left and right of the vehicle.

### Front Brake Pad Check

- Check the pad wear. Measure the pad thickness and replace it, if it is less than the specified value.

#### Pad thickness

Standard value: 11 mm (0.433 in)

Service limit: 2.0 mm (0.0787 in)

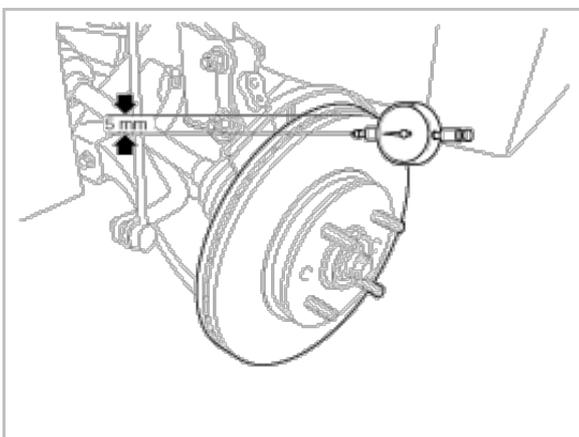
- Check the damage of pad, backing metal and contamination with grease.

### Front Brake Disc Runout Check

- Place a dial gauge about 5mm (0.2 in.) from the outer circumference of the brake disc, and measure the runout of the disc.

#### Brake disc runout

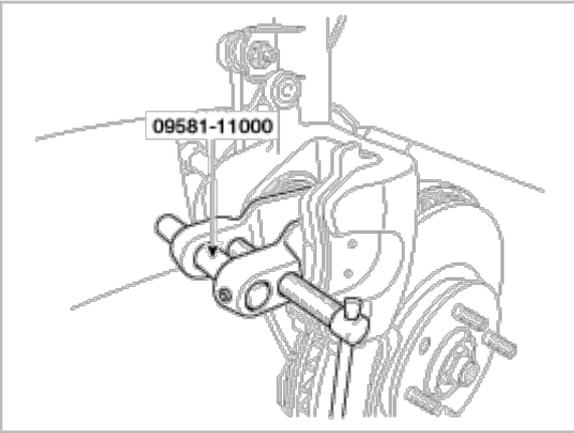
Limit: 0.04 mm (0.0016 in.) or less (new one)



- If the runout of the brake disc exceeds the limit specification, replace the disc, and then measure the runout again.
- If the runout does not exceed the limit specification, install the brake disc after turning it 180° and then check the runout of the brake disc again.
- If the runout cannot be corrected by changing the position of the brake disc, replace the brake disc.

### Installation

- Installation is the reverse of removal.
- Use a SST (09581-11000) when installing the brake caliper assembly.



3. After installation, bleed the brake system. (Refer to Brake system bleeding)