

Replacement

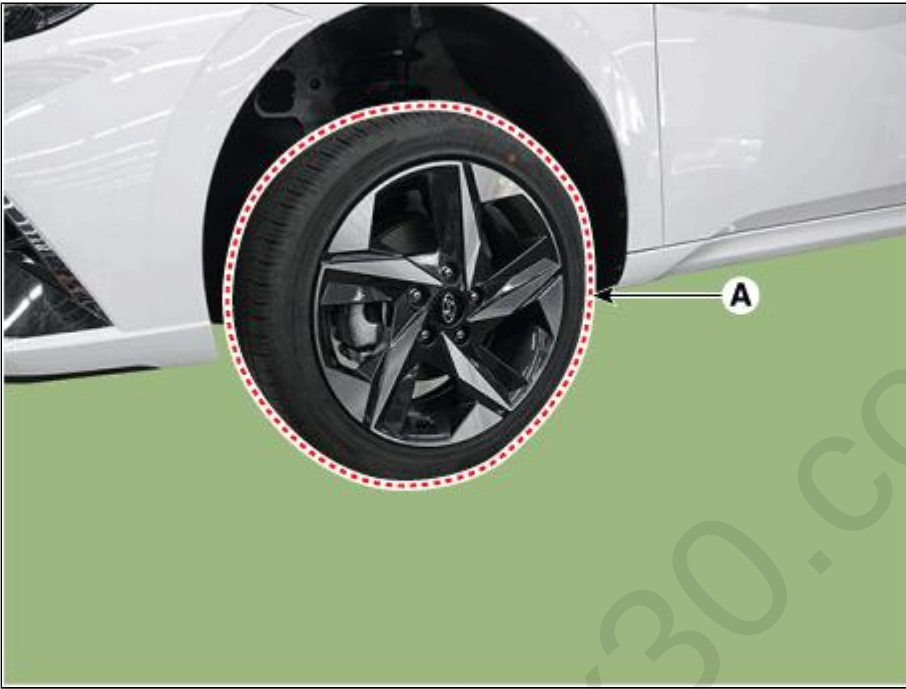
[Front]

1. Turn ignition switch OFF and disconnect the negative (+) battery cable.
2. Loosen the wheel nuts slightly.
Raise the vehicle, and make sure it is securely supported.
3. Remove the front wheel and tire (A) from front hub.

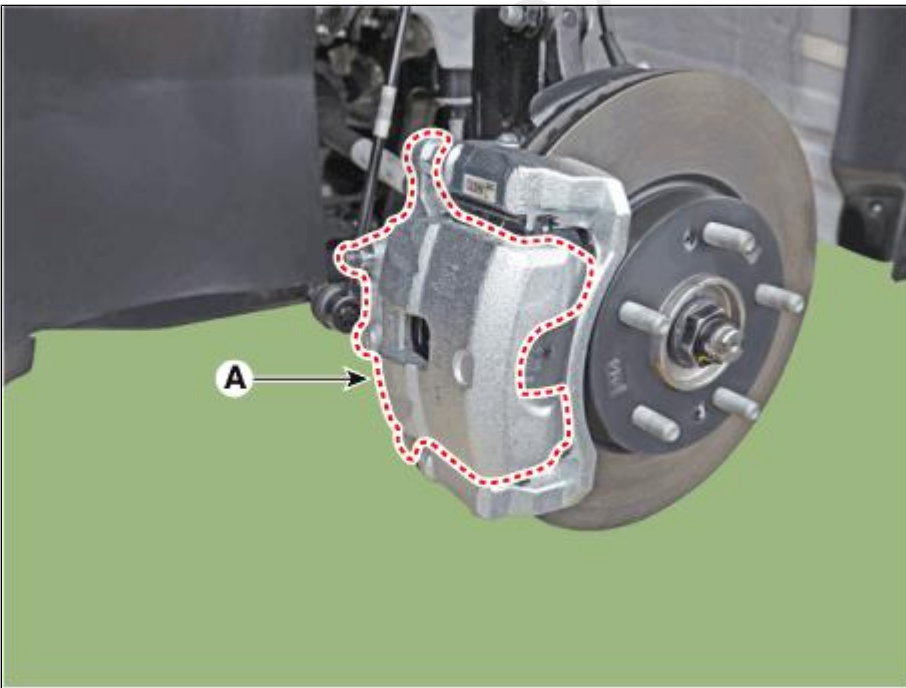
NOTICE

⌘ Be careful not to damage the hub bolts when removing the front wheel and tire (A).

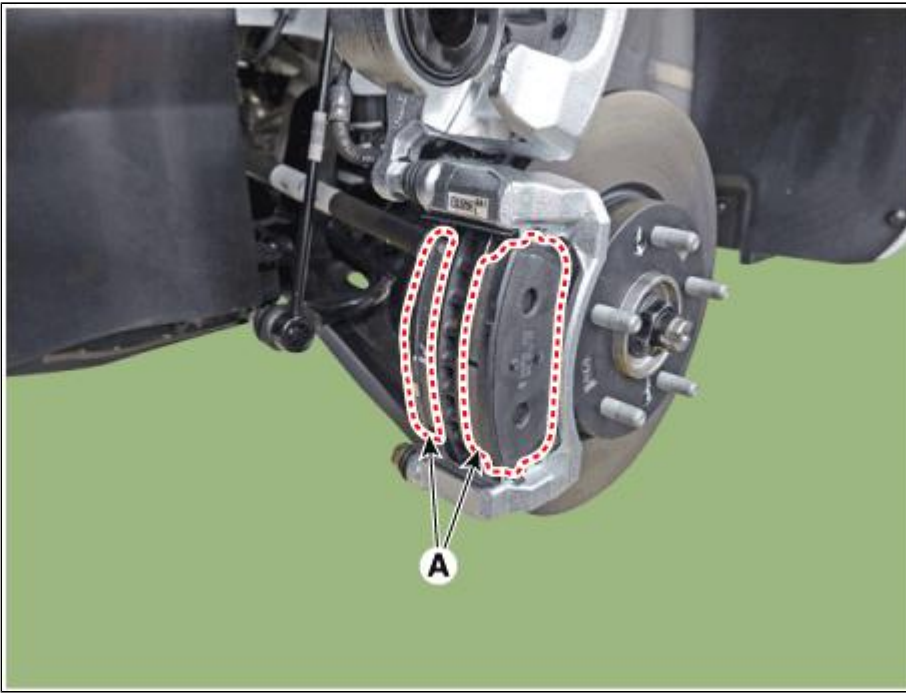
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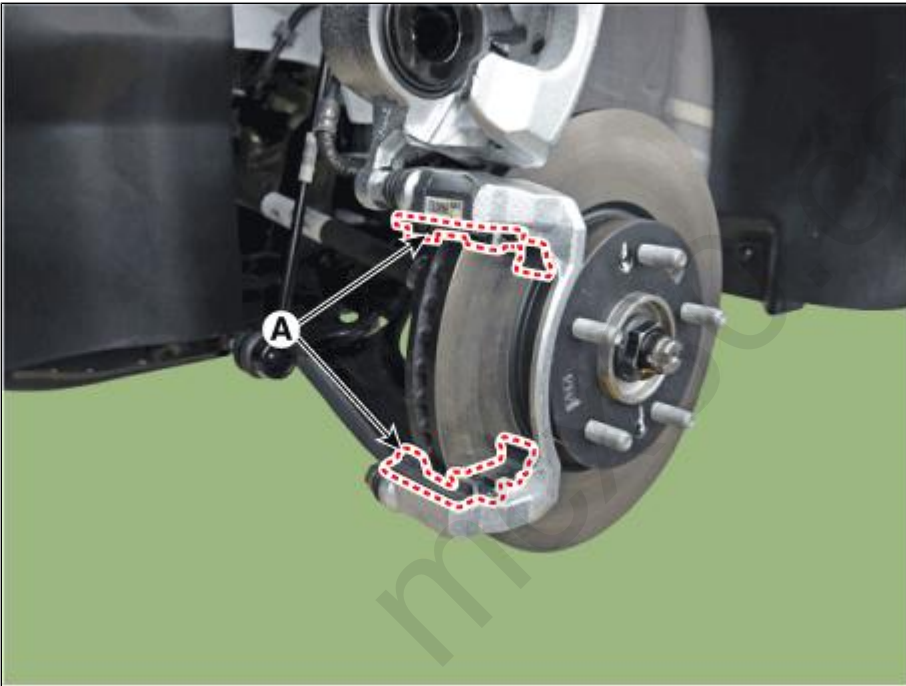
4. Up the brake caliper body (A) by loosening the guided rod bolt.



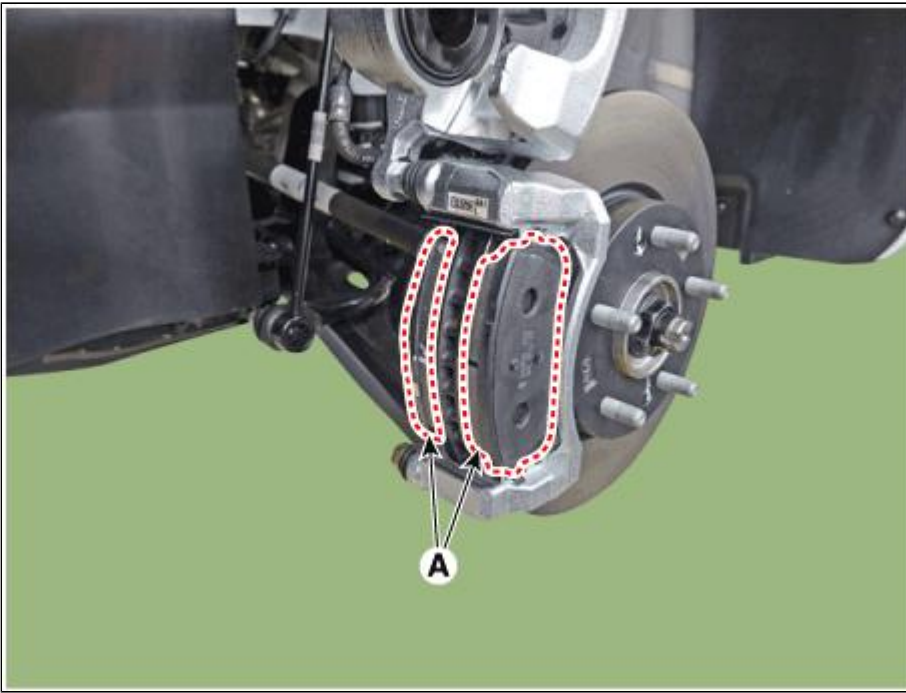
5. Remove the brake pad (A).



6. Replace the pad liner (A) with a new one.



7. Replace the brake pad (A) with a new one.



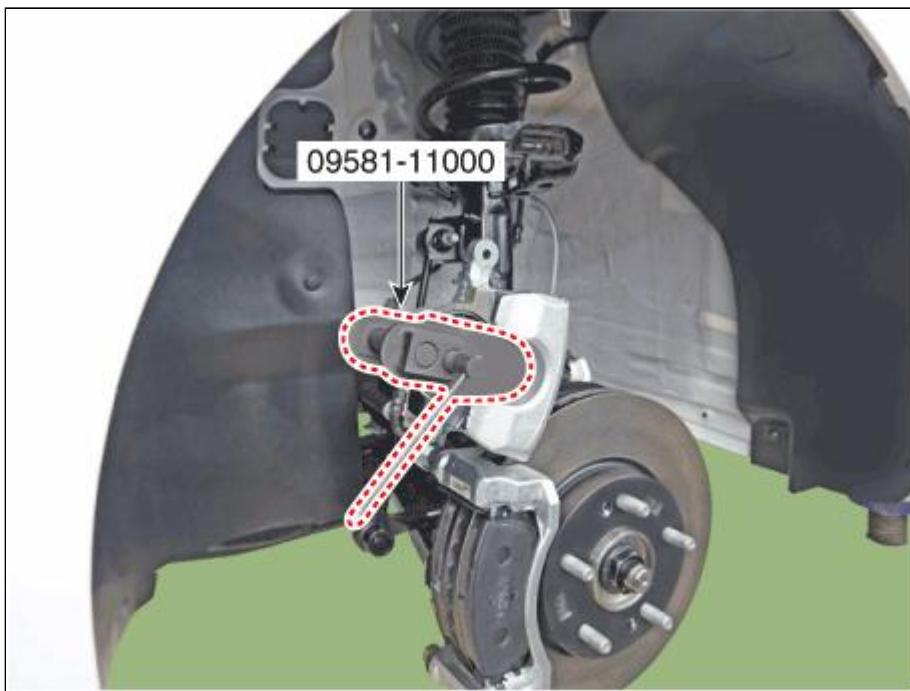
NOTICE

â When installing, use a new one brake pad (A), pad liner (B), inner shim (C).

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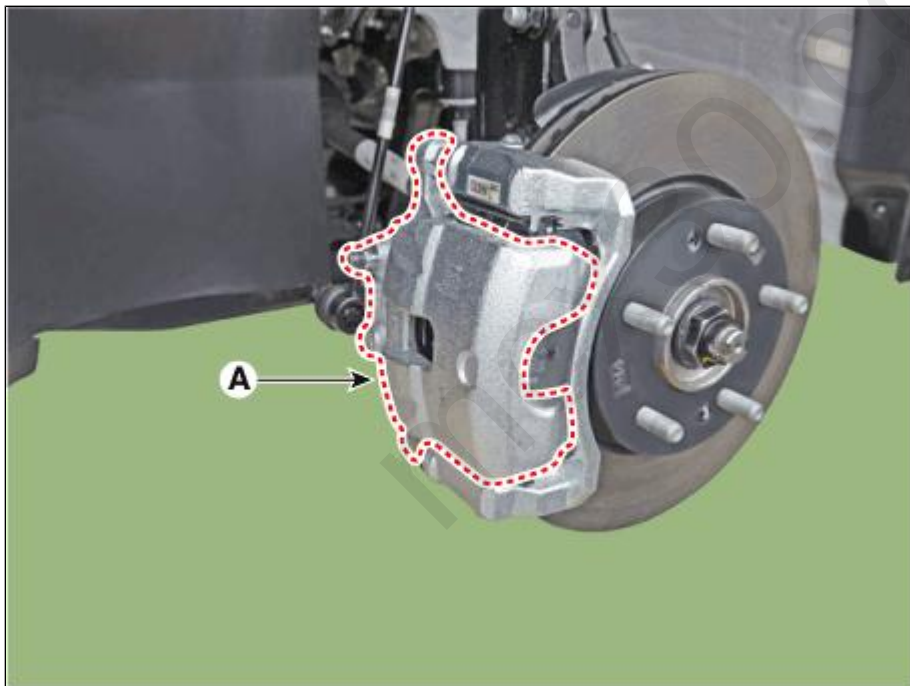
8. Use a SST (09581-11000) when installing the brake caliper assembly.



9. Install the caliper body (A) then tighten the guide rod bolt.

Tightening torque :

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



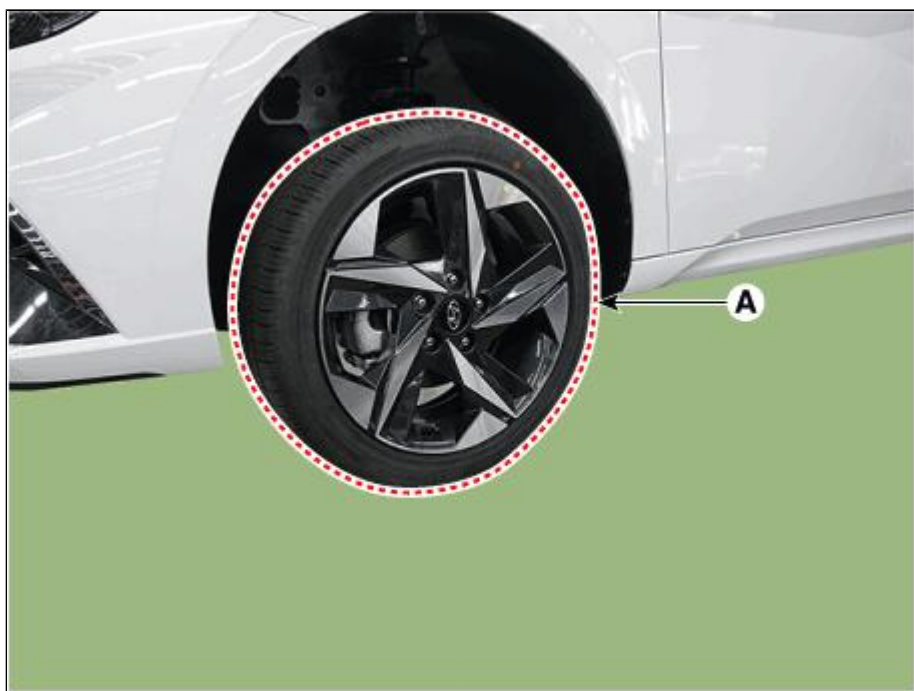
10. Install the front wheel and tire (A).

NOTICE

⚠ Be careful not to damage the hub bolts when installing the front wheel and tire (A).
⚠

Tightening torque :

107.8 - 127.4 N.m (11.0 - 13.0 kgf.m, 79.5 - 94.0 lb-ft)



- [Rear]
1. Before removing the rear caliper, perform "Brake Pad Replacement Mode" using the self-diagnosis.



■ Engine Control	
■ Automatic Transaxle	
■ ABS/ESP	
■ System Identification	
■ HCU Air Bleeding Mode	
■ Steering Angle Sensor(SAS) Calibration	
■ Auto Detected Configuration(ESC Only)	
■ Longitudinal G Sensor Calibration(HAC/DBC Only)	
■ VARIANT CODING	
■ Break Pad Change Mode	
■ Assembly Check(ECU replacement)	
■ Forward Collision-Avoidance Assist	
■ Airbag(Event #1)	
■ Airbag(Event #2)	
■ Air Conditioner	
■ 4WD Control	
■ Motor Driven Power Steering	



Do not touch any system buttons while performing this function.



• Pad Change Mode

Purpose	To push the piston into caliper by retracting spindle nut with actuator for replacing brake pad.
Enable Condition	1.Engine Off 2.Ignition Switch On
Concerned Component	Electric Parking Brake(EPB) ECU, EPB Switch, Brake Caliper, Cluster
Concerned DTC	-
Fail Safe	-
Etc	C1 : Applying C2 : Releasing

OK



Do not touch any system buttons while performing this function.

2. Select C2 (Release) on the screen below.

SW Management

■ Brake Pade Change Mode

● [Brake Pade Change Mode]

Before changing brake pad, this function should be performed,
This will allow you to push the piston in to caliper by retracting
spindle nut with actuator.

Whille Pad change mod is in progress, text message is displayed at cluster.

After changing brake pad, ApplyRelease function should be executed 3 times.

● [Condition]

Engine OFF

IG ON

C1: Apply

C2: Release

C1

C2

Cancel



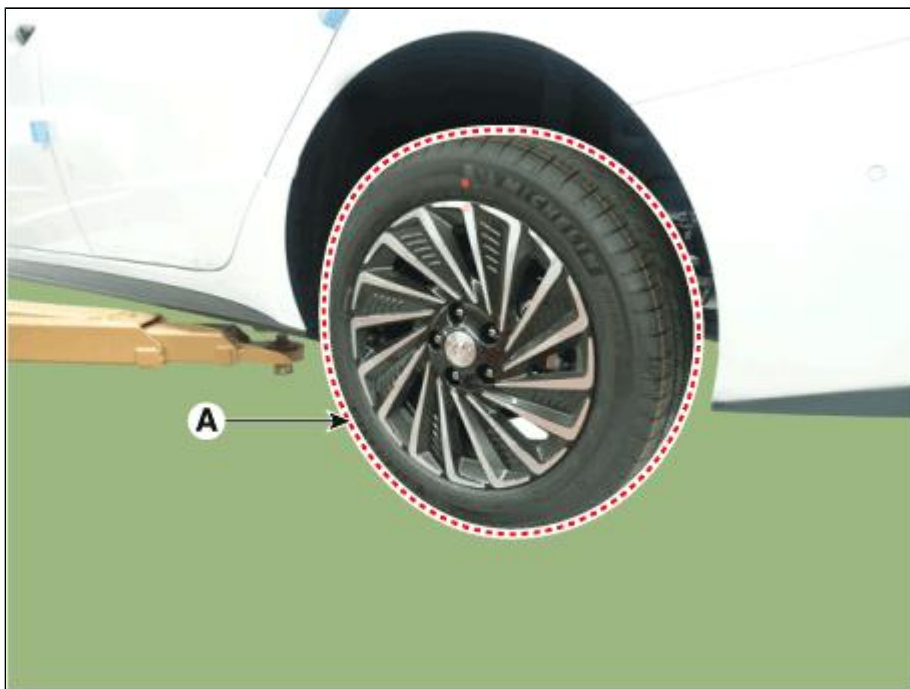
Do not touch any system buttons while performing this function.

3. Turn ignition switch OFF and disconnect the negative (+) battery cable.
4. Loosen the wheel nuts slightly.
Raise the vehicle, and make sure it is securely supported.
5. Remove the rear wheel and tire (A) from rear hub.

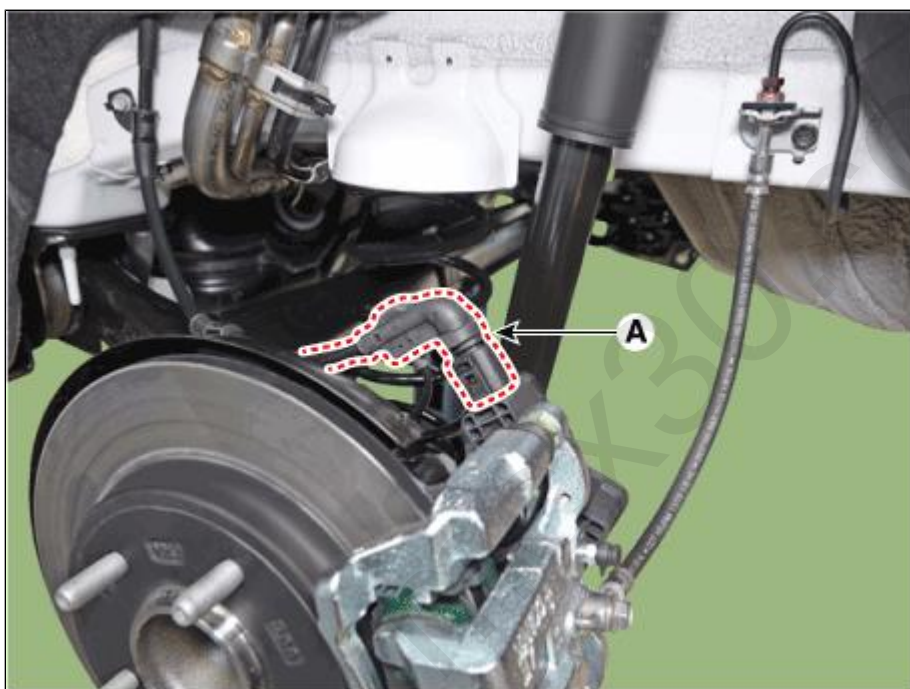
NOTICE

⌘ Be careful not to damage the hub bolts when removing the rear wheel and tire (A).

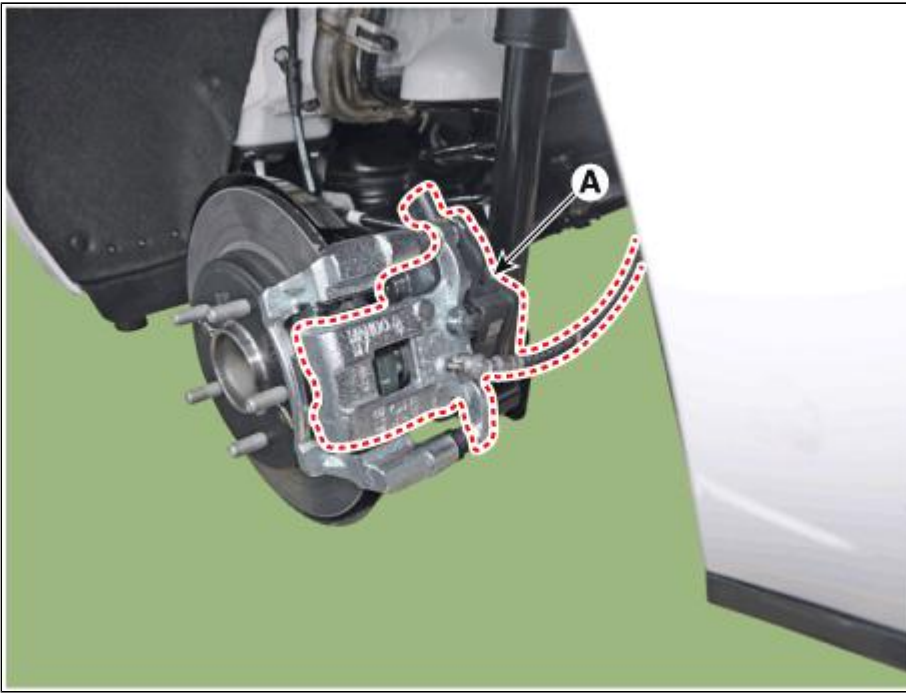
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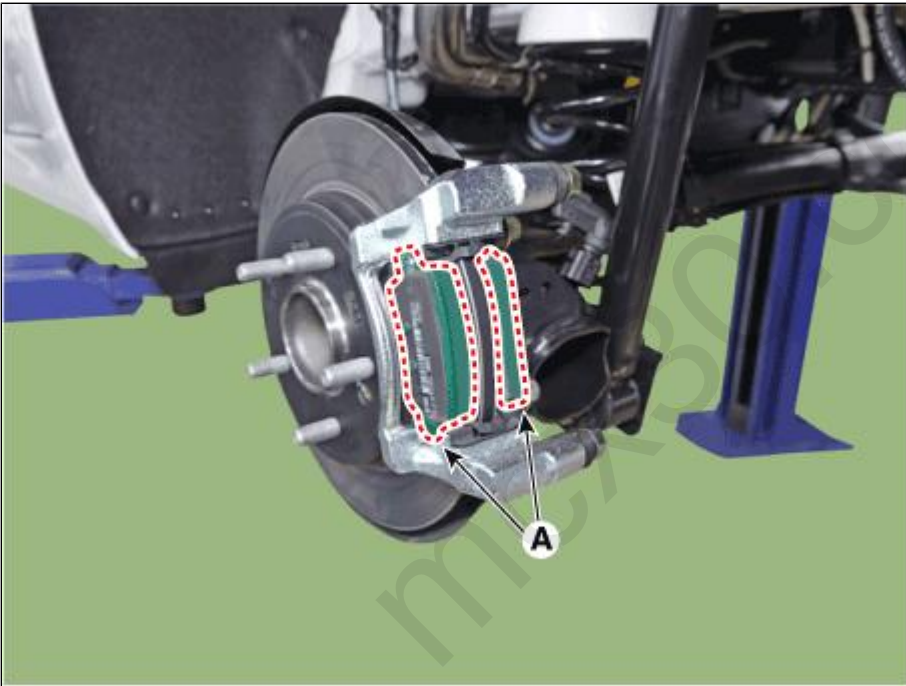
6. Disconnect the EPB actuator connector (A).



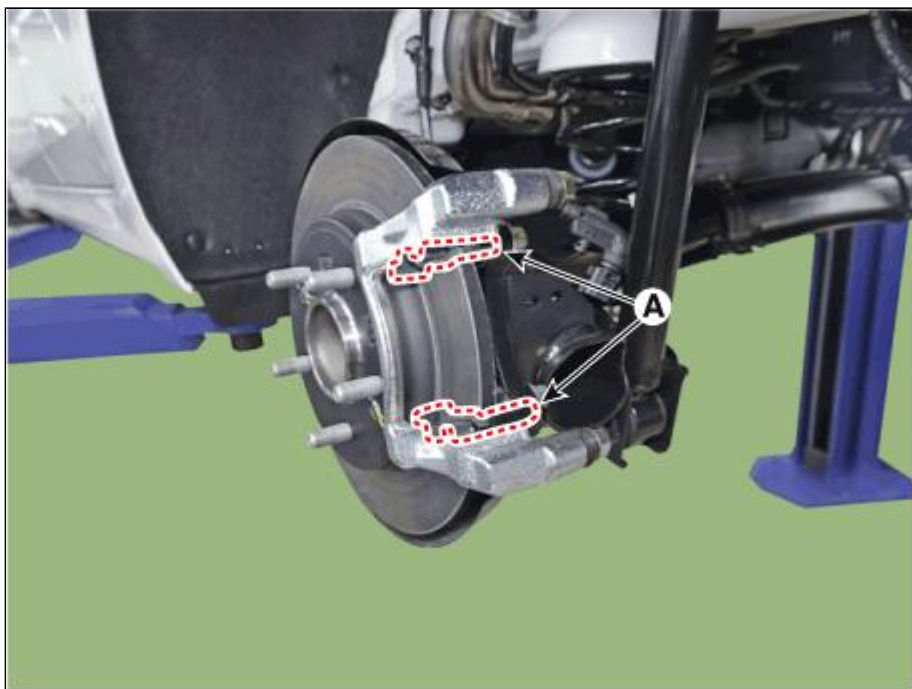
7. Remove the caliper body (A) after loosening the guide rod bolt.



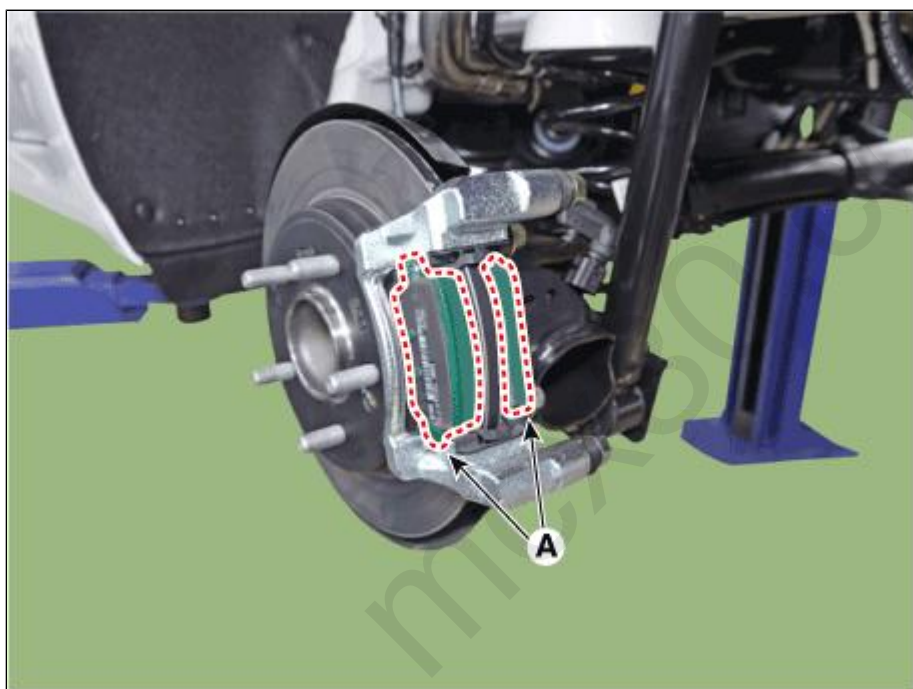
8. Remove the brake pad (A).



9. Replace the pad retainer (A) with a new one.



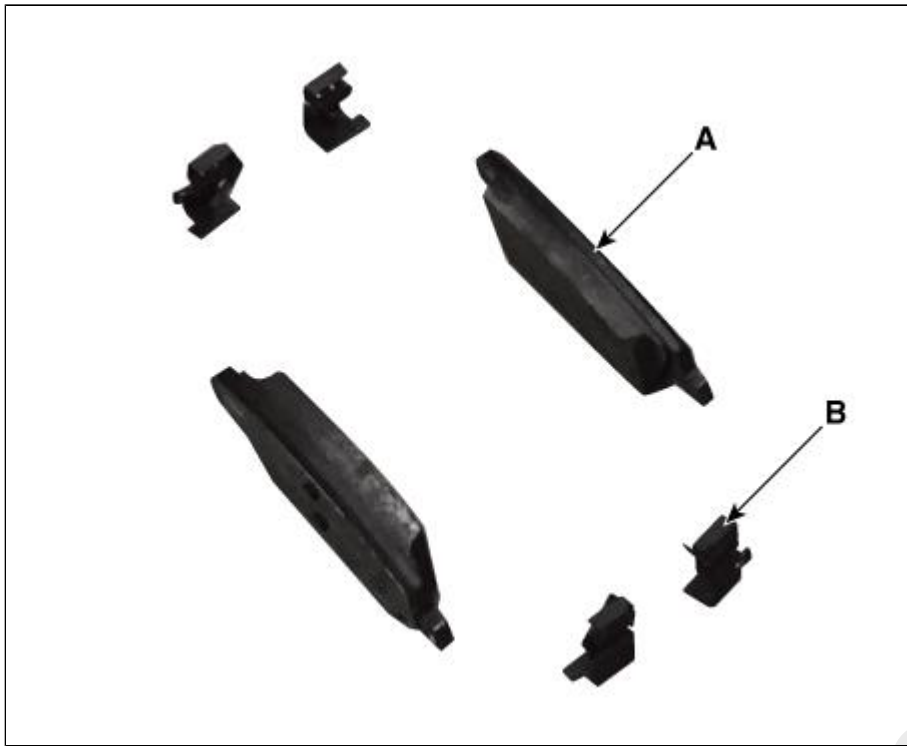
10. Replace the brake pad (A) with a new one.



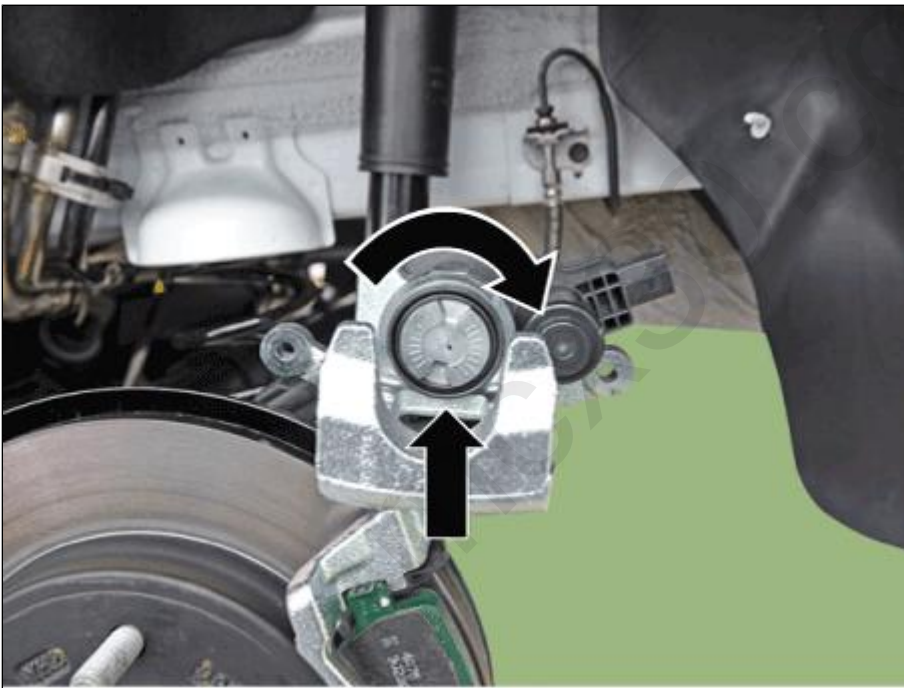
NOTICE

â When installing, use a new one brake pad (A), pad liner (B).

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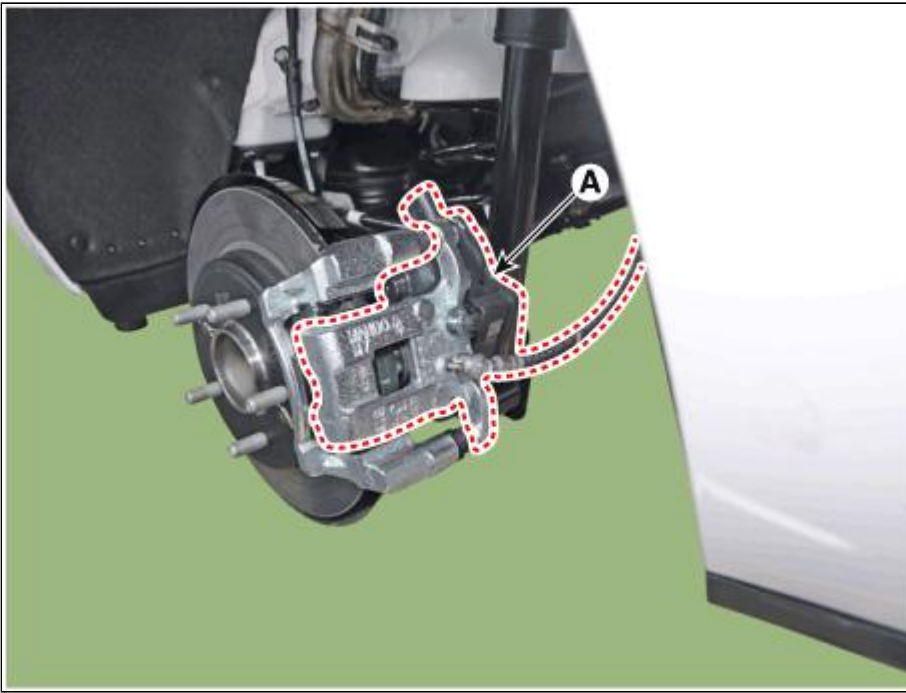
11. Rotate the caliper piston and push the direction of the arrow.



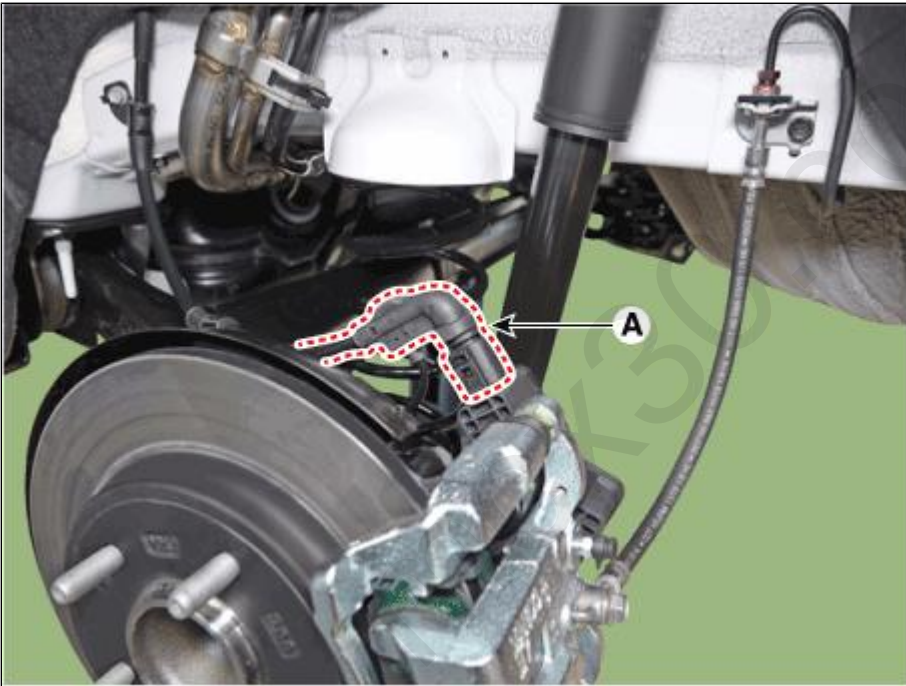
12. Install the caliper body (A) then tighten the guide rod bolt.

Tightening torque :

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



13. Connect the EPB actuator connector (A).



14. Install the rear wheel and tire (A).

Tightening torque :

107.9 - 127.5 N.m (11.0 - 13.0 kgf.m 79.6 - 94.0 lb-ft)

NOTICE

⚠ Be careful not to damage the hub bolts when installing the front wheel and tire (A).
 ⚠



15. After replacing the brake pad perform "Brake Pad Replacement Mode" using the self-diagnosis.

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- Engine Control 
- Automatic Transaxle 
- ABS/ESP 
 - System Identification 
 - HCU Air Bleeding Mode 
 - Steering Angle Sensor(SAS) Calibration 
 - Auto Detected Configuration(ESC Only) 
 - Longitudinal G Sensor Calibration(HAC/DBC Only) 
 - VARIANT CODING 
 - Break Pad Change Mode 
 - Assembly Check(ECU replacement) 
- Forward Collision-Avoidance Assist 
- Airbag(Event #1) 
- Airbag(Event #2) 
- Air Conditioner 
- 4WD Control 
- Motor Driven Power Steering 



Do not touch any system buttons while performing this function.



• Pad Change Mode

Purpose	To push the piston into caliper by retracting spindle nut with actuator for replacing brake pad.
Enable Condition	1.Engine Off 2.Ignition Switch On
Concerned Component	Electric Parking Brake(EPB) ECU, EPB Switch, Brake Caliper, Cluster
Concerned DTC	-
Fail Safe	-
Etc	C1 : Applying C2 : Releasing

OK



Do not touch any system buttons while performing this function.

16. Select C1 (Apply) on the screen below.

SW Management

■ Brake Pade Change Mode

● [Brake Pade Change Mode]

Before changing brake pad, this function should be performed,
This will allow you to push the piston in to caliper by retracting
spindle nut with actuator.

Whille Pad change mod is in progress, text message is displayed at cluster.

After changing brake pad, ApplyRelease function should be executed 3 times.

● [Condition]

Engine OFF

IG ON

C1: Apply

C2: Release

C1

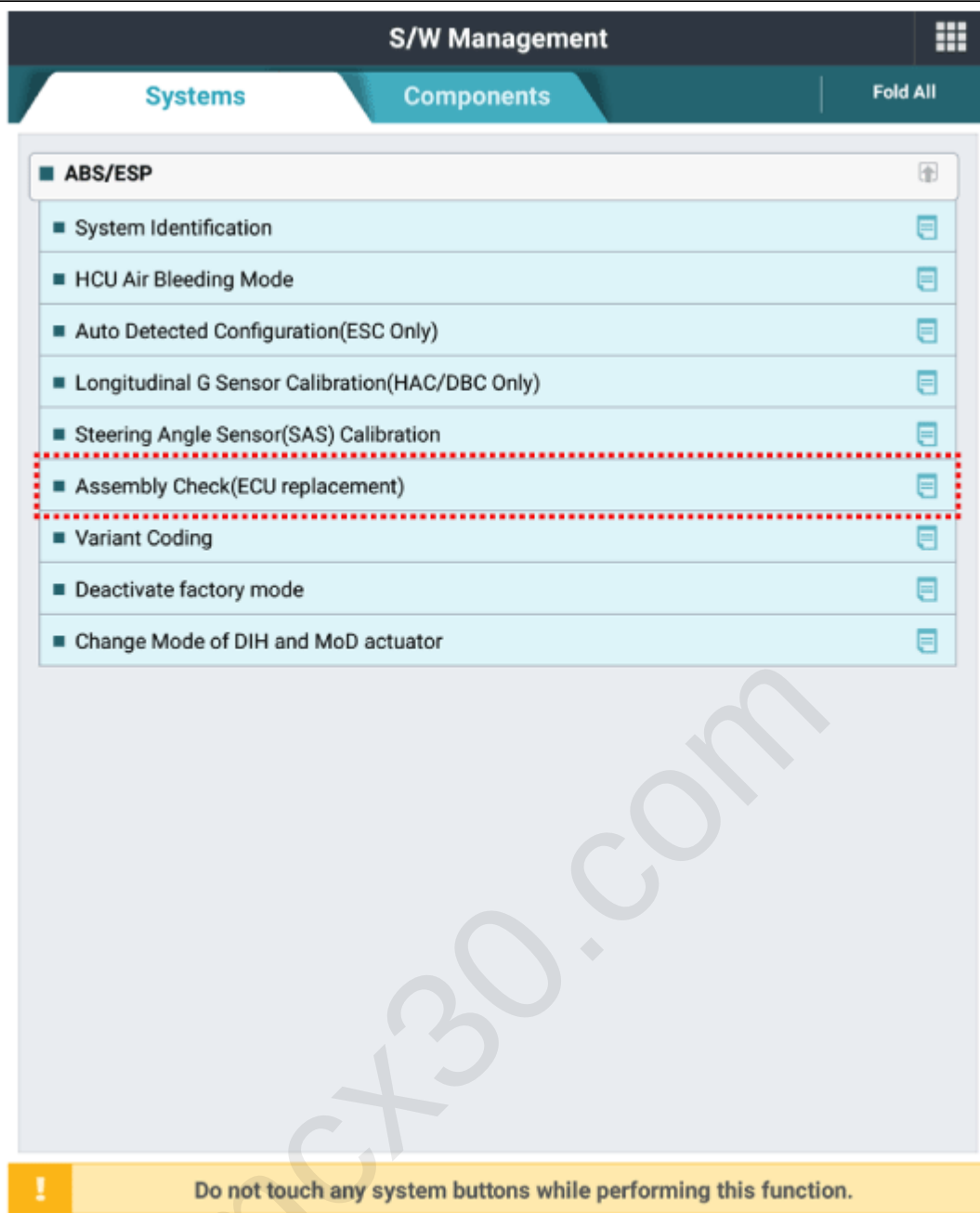
C2

Cancel



Do not touch any system buttons while performing this function.

17. After replacing the brake pad, make sure that the caliper is installed correctly by performing "Check assembling (ECU replaced)" from the optional function.



Inspection

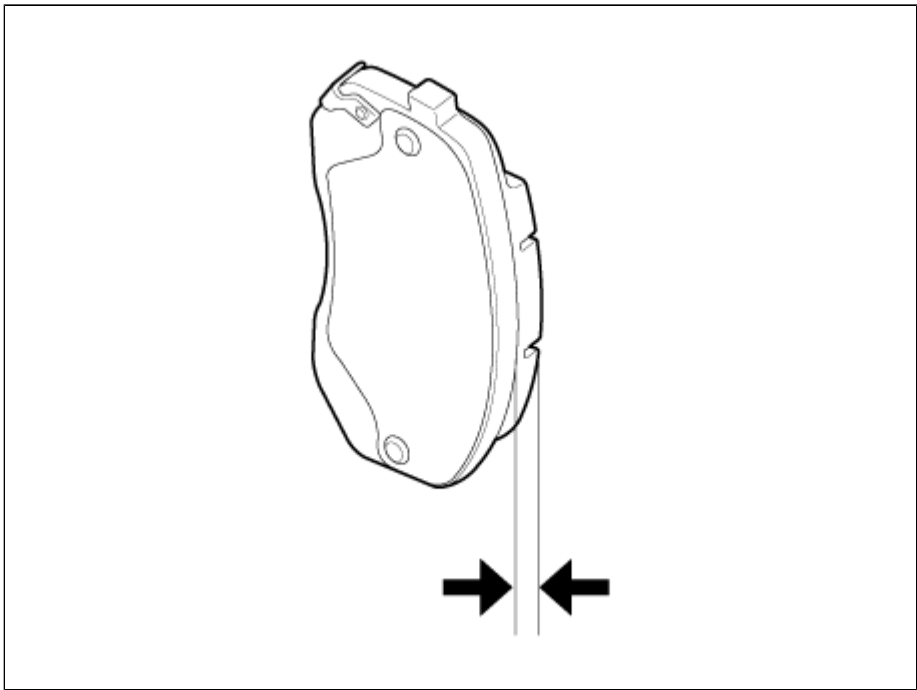
Front Brake Pad Check

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

Front brake disc thickness Pad thickness

Standard : 10.5 mm (0.41 in)

Service Limit : 2.0 mm (0.07 in)



2. Check that grease is applied, to sliding contact points and the pad and backing metal for damage.

Rear Brake Pad Check

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

Pad thickness

Standard value : 10 mm (0.39 in)

Service limit : 2.0 mm (0.07 in)

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

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