

PUBLISHED: 29-JUN-2020
2020.0 DEFENDER (LE), 206-03

FRONT DISC BRAKE

BRAKE PADS 6 PISTON FIXED CALIPER (G2413848)

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REMOVAL AND INSTALLATION

MATERIALS

NAME	SPECIFICATION
Brake Cleaner	3U7J-2C410-AA

GENERAL EQUIPMENT

EQUIPMENT NAME
Jaguar Land Rover approved diagnostic equipment

REMOVAL

WARNINGS:

- Brake pads must be renewed in axle sets only. Failure to follow this instruction may result in braking efficiency being impaired.
- If the brake pad wear warning indicator has been activated, a new brake pad wear sensor must be installed.

NOTE:

- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.
- This procedure contains illustrations showing certain components removed to provide extra clarity.

1. Use the Jaguar Land Rover (JLR) approved diagnostic equipment to activate the Integrated Power Brake assembly mode.

General Equipment: [Jaguar Land Rover approved diagnostic equipment](#)

2. Raise and support the vehicle on a suitable 2 post lift.
Refer to: [Jacking and Lifting](#) (100-02 Jacking and Lifting, Description and Operation).

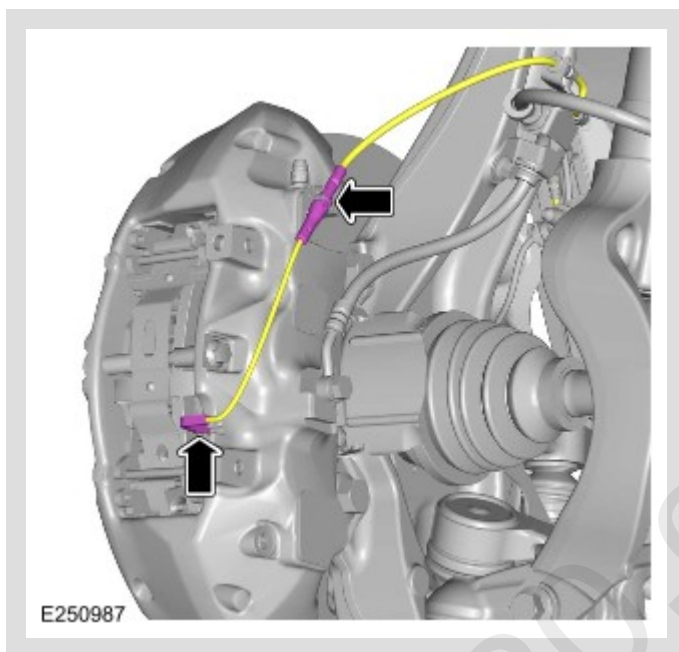
3. Remove the front wheels and tires.
Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

⚠ CAUTION:

The brake pad wear indicator sensor is easily damaged. Do not use a lever to remove the sensor. Use fingers only.

⚠ NOTE:

Left side only.

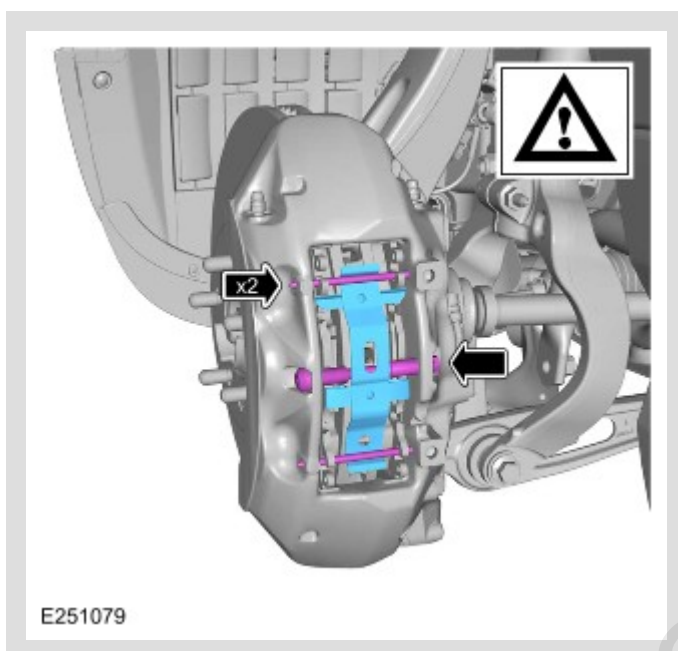


- Disconnect the brake pad wear sensor.
- Release the brake pad wear sensor grommet and position the component to one side.

5.

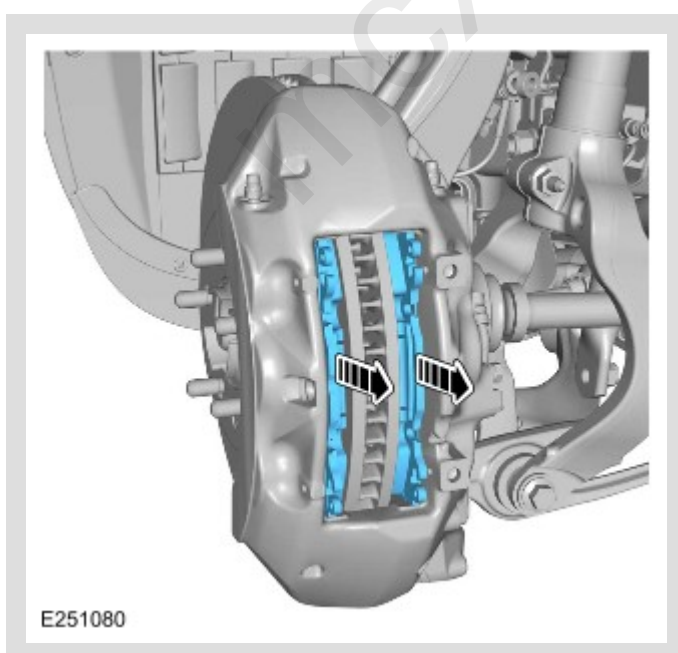
 NOTE:

- Note the orientation of the brake pads.
- Note the orientation of the anti-rattle spring prior to removal.



- Remove the 2 brake caliper slide pins.
- Remove the brake pad retaining bolt.
- Remove the anti-rattle spring.

6.



Remove the brake pads.

7.

Repeat the above step for the other side.

INSTALLATION

1.



WARNING:

Do not use compressed air to clean brake components. Dust from friction materials can be harmful if inhaled.



Use brake cleaner fluid to clean the brake caliper housing and the 6 brake caliper piston faces and seals.

Material: [Brake Cleaner \(3U7J-2C410-AA\)](#)

2.



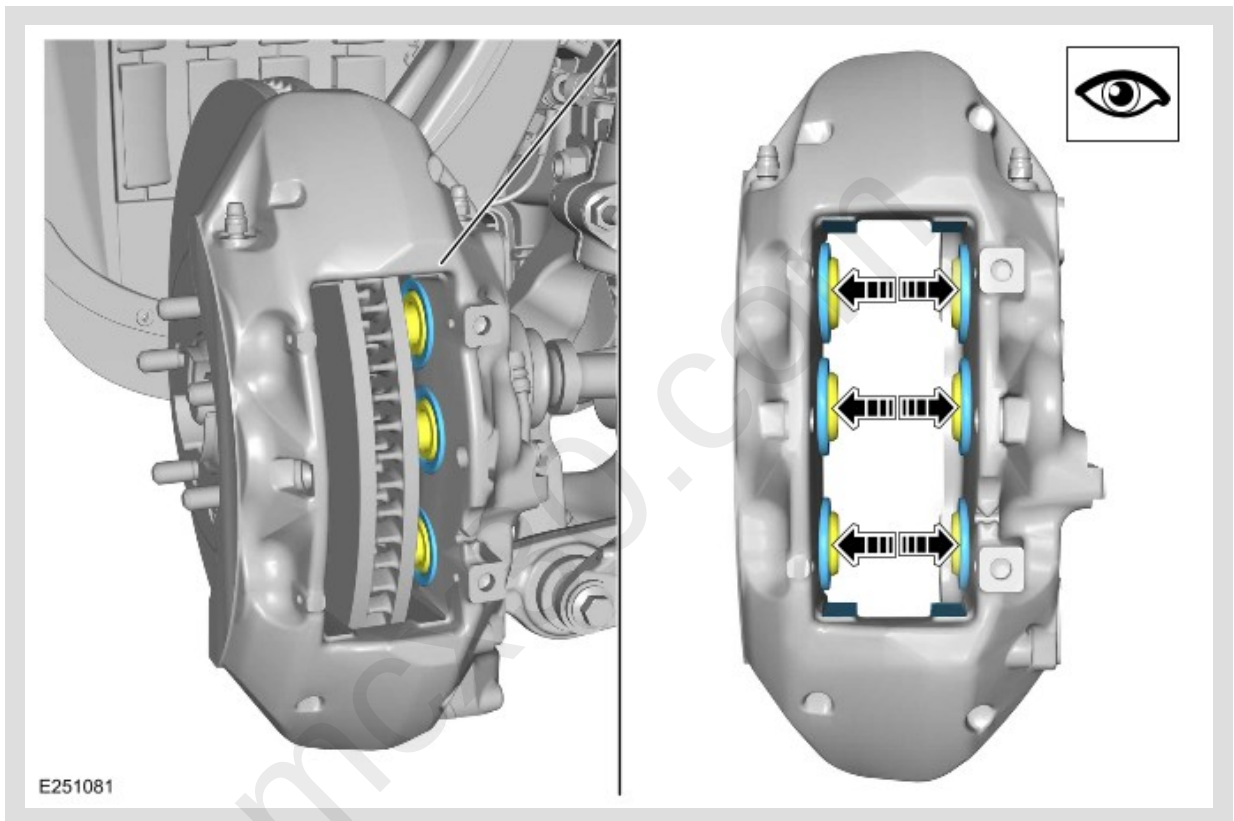
WARNING:

Damaged components must be replaced.



CAUTION:

- Check the brake fluid reservoir level before pushing the piston back, failure to follow this instruction may result in damage to the vehicle.
- As the piston is pushed back into the caliper housing, the brake fluid level in the reservoir will rise. Do not allow the reservoir to overflow.

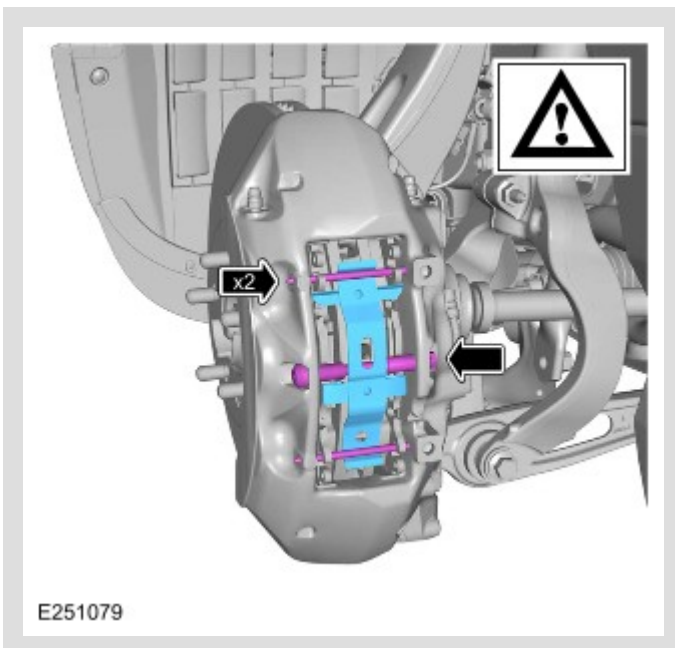


- Inspect the caliper piston seals for damage.
- Use a suitable piston retraction tool to press the 6 brake caliper pistons into the brake caliper housing.

3.

Install the 2 brake pads.

4.



- Install the anti-rattle spring.
- Use a suitable tool to install the 2 retaining pins.
- Install and tighten the brake pad retaining bolt.

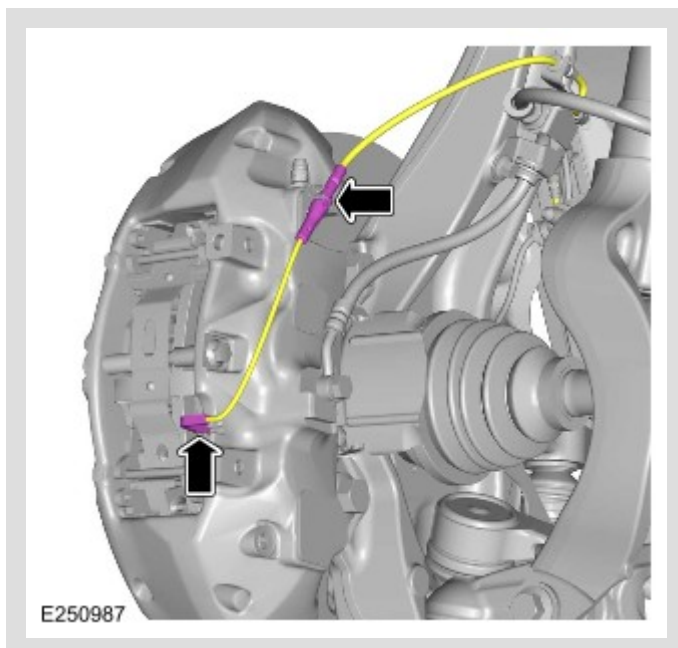
Torque: 30Nm

5. Repeat the above procedure for the other side.

6.

 NOTE:

Left side only.



- Connect the brake pad wear sensor to the brake pad.
- Secure the brake pad wear sensor grommet.

7.

Install the front wheels and tires.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

 CAUTION:

Failure to follow this instruction may lead to brake warning lamps and Diagnostic Trouble Code(s) (DTC) being set.

1.

 NOTE:

Although the brake pedal might feel firm make sure to hold the pedal through the 10 second period.

If the Integrated Power Brake unit - 'Assembly Mode' has not been activated, press and hold the brake pedal in a single apply for 10 seconds.

2. If the brake pedal felt soft and fell to the floor proceed to **substep 4**.
3. If the brake pedal felt firm proceed to **substep 5**.

4.

 NOTE:

Make sure to repeatedly press the brake pedal until a firm brake pedal feel is reached.

If the Integrated Power Brake unit - 'Assembly Mode' has been activated, press the brake pedal several times until a firm brake pedal feel is reached.

5. Check the fluid level in the brake fluid reservoir and top-up with brake fluid if necessary. Refer to: [Specifications](#) (206-00 Brake System - General Information, Specifications).

Use the JLR approved diagnostic equipment and disable the Integrated Power Brake assembly mode.