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BRAKE SYSTEM – GENERAL INFORMATION

BRAKE SYSTEM BLEED WITH DIAGNOSTIC EQUIPMENT [G2426885]

GENERAL PROCEDURES

MATERIALS

NAME	SPECIFICATION
Brake Cleaner	3U7J-2C410-AA

GENERAL EQUIPMENT

EQUIPMENT NAME
Brake/clutch system pressure bleeder/filler
Jaguar Land Rover approved diagnostic equipment

CHECK

⚠ CAUTION:

Brake fluid will damage paint finished surfaces. If spilled, immediately remove the fluid and clean the area with water.

△ 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.
- The assistance of another technician will be required during the bleed procedure.

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

2. Check that the brake fluid lines are secure and that there are no signs of a brake fluid leak. If a brake fluid leak is detected, investigate and rectify the cause of the leak before bleeding the brakes.

3. Remove the brake fluid reservoir cover from the cowl panel.

4.

- Clean the brake fluid reservoir cap and surrounding area.
Material: [Brake Cleaner \(3U7J-2C410-AA\)](#)
- Remove the brake fluid reservoir cap and top up the fluid as required.
Refer to: [Specifications](#) (206-00 Brake System - General Information, Specifications).

ADJUSTMENT

⚠ CAUTION:

Brake fluid will damage paint finished surfaces. If spilled, immediately remove the fluid and clean the area with water.

**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.
- The assistance of another technician will be required during the bleed procedure.

1.**CAUTION:**

- Make sure that the operating pressure of the equipment does not exceed 3 Bar (43.5 psi).
- It is imperative that the brake fluid level does not drop below the minimum mark on the brake fluid reservoir during the bleed procedure.

Install the pressure bleed equipment to the brake fluid reservoir.

General Equipment: [Brake/clutch system pressure bleeder/filler](#)

2.

Connect the Jaguar Land Rover (JLR) approved diagnostic equipment to the vehicle and begin a new diagnostic session.

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

3.

- Remove all the brake caliper bleed screw caps and clean the surrounding area.
- Use the JLR approved diagnostic equipment to put the Integrated Power Brake module into 'Assembly Mode' mode.
- Select 'ECU Diagnostics'.
- Select 'Anti-Lock Brake System Control Module (ABS) Diagnostics'.
- Select 'ECU Functions'.
- Select 'Activate Control Module Assembly Mode'.

4.

⚠ WARNINGS:

- Braking efficiency may be seriously impaired if an incorrect bleed sequence is used.
- High performance brake calipers have 2 bleed screws, in this instance the inner bleed screw should always be bled first.
- Use the JLR approved diagnostic equipment to complete the Integrated Power Brake module 'Brake Bleed' process.
- Select 'ECU Diagnostics'.
- Select 'ABS Diagnostics'.
- Select 'ECU Functions'.
- Select 'Brake Bleed'.

5.

⚠ WARNING:

Braking efficiency may be seriously impaired if an incorrect bleed sequence is used.



Follow the on-screen prompts to bleed the brake system.

6.

- Tighten all the bleed screws.
Torque: 15Nm
- Install all the bleed screw caps.

7.

- On completion of the brake bleed procedure, exit the 'Brake Bleed' application.
- Select 'ECU Diagnostics'.
- Select 'ABS Diagnostics'.
- Select 'ECU Functions'.
- Select 'Exit Brake Bleed'.

8.

Use the JLR approved diagnostic equipment and complete the 'Leakage And Air Monitoring' procedure.

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

9.

- Take the Integrated Power Brake out of 'Manufacturing Service Mode'.
- Select 'ECU Diagnostics'.
- Select 'ABS Diagnostics'.
- Select 'ECU Functions'.
- Select 'Exit Control Module Assembly Mode'
- Follow the on-screen prompts.

10.

- Read and clear any diagnostic trouble codes.
- Disconnect the JLR approved diagnostic equipment.

11.

- Remove the pressure bleed equipment from the brake fluid reservoir.
- Top up the fluid as required and install the brake fluid reservoir cap.
Refer to: [Specifications](#) (206-00 Brake System - General Information, Specifications).

12.

- Close the hood and all the doors and lock the vehicle.
- Wait for the hazard warning lamp switch back light to extinguish.
- Wait a further 20 seconds.

13.

- Unlock the vehicle.
- Turn the ignition on.
- Assess the brake pedal both statically and dynamically.
- If required, use the JLR approved diagnostic equipment to read and clear any Diagnostic Trouble Code (s) (DTC).
General Equipment: [Jaguar Land Rover approved diagnostic equipment](#)
- Check the system for brake fluid leaks.

14.

Install the brake fluid reservoir cover to the cowl panel.

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