

LTB00857NAS7

TECHNICAL BULLETIN

17 SEP 2018

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NOTE: The information in Technical Bulletins is intended for use by trained, professional Technicians with the knowledge, tools, and equipment required to do the job properly and safely. It informs these Technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by 'do-it-yourselfers'. If you are not a Retailer, do not assume that a condition described affects your vehicle. Contact an authorized Land Rover service facility to determine whether this bulletin applies to a specific vehicle.

INFORMATION

This reissue replaces all previous versions. Please destroy all previous versions.

Changes are highlighted in blue

SECTION:

206-03

SUBJECT/CONCERN:

'Squeal' Noise From Front Brakes During Moderate Braking - High Performance Brakes Only

AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:	APPLICABILITY:
Range Rover Sport (LW)	2014	001154-001205	Solihull	Vehicles With: High Performance Brakes
Range Rover Sport (LW)	2014-2015	300003-399997	Solihull	Vehicles With: High Performance Brakes
Range Rover Sport (LW)	2014-2016	500023-599999	Solihull	Vehicles With: High Performance Brakes
Range Rover Sport (LW)	2014-2017	600009-690429	Solihull	Vehicles With: High Performance Brakes
Range Rover Sport (LW)	2016-2017	100000-181319	Solihull	Vehicles With: High Performance Brakes
Range Rover (LG)	2013-2017	001204-380216	Solihull	Vehicles With: High Performance Brakes

MARKETS:

NORTH AMERICA

CONDITION SUMMARY:

NOTE:

Jaguar Land Rover braking systems are designed to achieve peak performance under a broad range of driving conditions. Jaguar Land Rover's priority is the safety of its braking systems, and they are designed to perform in all circumstances, however the brake may, dependent on the environment and driving style, produce the occasional noise. This does not impair the operation or performance. Brake noise is an issue facing many vehicle manufacturers and Jaguar Land Rover are constantly working in conjunction with the leading brake caliper and brake pad suppliers to develop design solutions which reduce brake squeal noises.

SITUATION:

On vehicles installed with the high performance brake system (380mm diameter front brake disc), a 'squeal' noise may be heard from the front brakes during low-speed driving forward/backward, the 'squeal' can be heard also during moderate brake pedal application at low speeds, until the vehicle comes to a stop. The 'squeal' noise may resonate at frequencies of around 7kHz and 8kHz.

CAUSE:

This may be caused by front brake pad resonance.

ACTION:

Should a customer express this concern, follow the Workshop Procedure outlined below.

PARTS:

NOTE:

An allowance of \$0.77USD or local equivalent has been allocated for long life lubricating grease (LR020972); claim using 'ZZZ001'. One tube of grease will repair 50 vehicles.

PART NUMBER	DESCRIPTION	QUANTITY
LR114004	Front brake pad set	1
LR033275	Wire - Brake pad wear sensor - Where applicable	1
LR033274	Caliper bolts	4
LR020972	Long life lubricating grease	1
LR016685	Brake caliper dust boots - Where applicable	2

WARRANTY:

NOTE:

An allowance of \$0.77USD or local equivalent has been allocated for long life lubricating grease (LR020972); claim using 'ZZZ001'. One tube of grease will repair 50 vehicles.

NOTES:

- Repair procedures are under constant review, and therefore times are subject to change; those quoted here must be taken as guidance only. Always refer to JLR claims submission system to obtain the latest repair time.
- The JLR Claims Submission System requires the use of causal part numbers. Labor only claims must show the causal part number with a quantity of zero.

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Front brake pads - Renew	70.40.02.36	0.7	42	LR020362
Front brake caliper dust boots - Renew - Caliper removed for access	70.55.40.01	0.5	42	LR016685

**NOTE:**

Normal Warranty procedures apply.

**WORKSHOP PROCEDURE:****WARNING:**

Brake pads must be renewed in axle sets only. Failure to follow this instruction may result in braking efficiency being impaired.

1

**WARNING:**

Make sure to support the vehicle with axle stands.

Raise and support the vehicle (see TOPIx Workshop Manual section 100-02: Service Information - Jacking and Lifting).

2

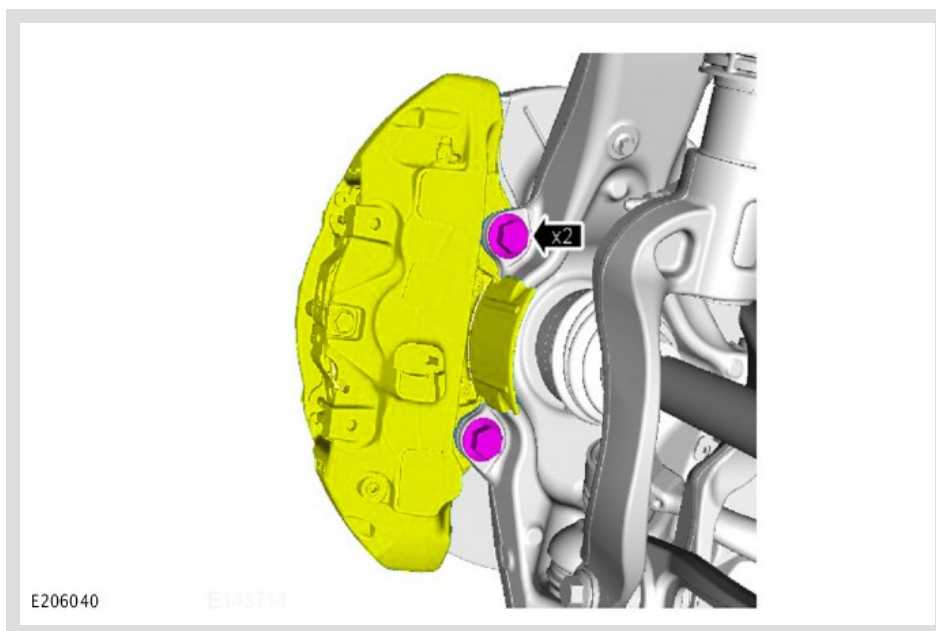
Remove the brake pads (see TOPIx Workshop Manual section 206-03: Brake System - Front Brake Disc).

- Follow steps 1-6 for the removal.

3

**CAUTIONS:**

- Make sure that no load is placed on the brake hose.
- Discard the bolts.



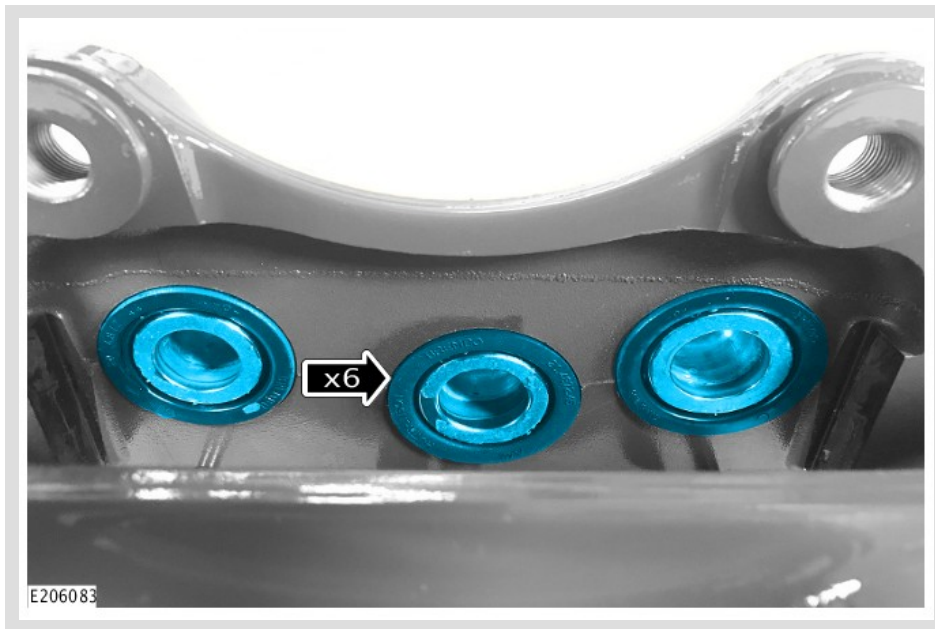
Remove and discard the bolts.

- Reposition the caliper, making sure to leave access to the brake caliper pistons and brake caliper piston dust boots.

4

**CAUTIONS:**

- Do not damage the brake caliper pistons or the brake caliper piston dust boots.
- Make sure the brake caliper piston dust boots are correctly seated.



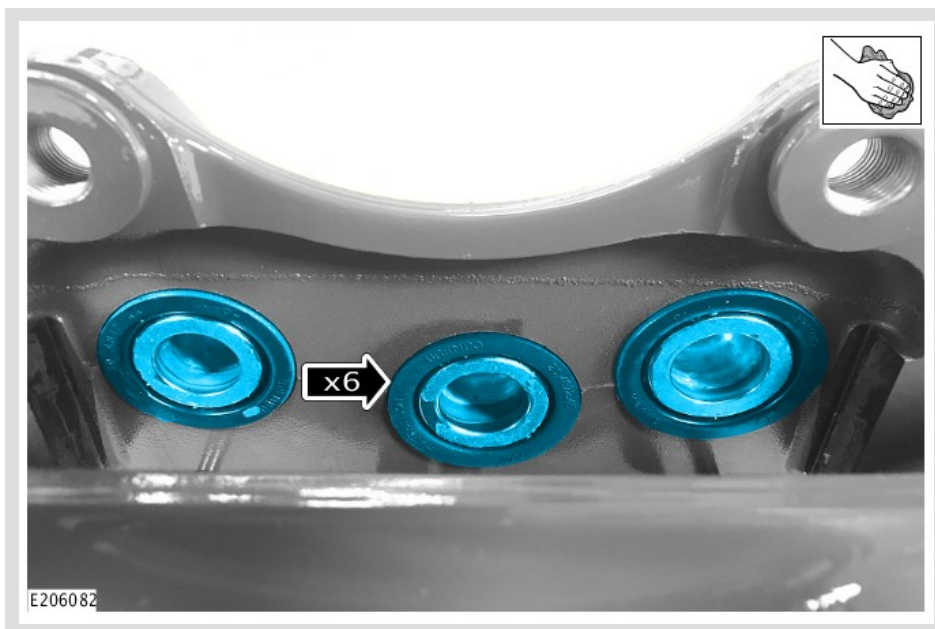
Inspect brake caliper piston dust boots for damage.

- If there is no damage to the brake caliper piston dust boots, go to Step 6.
- If there is damage to the brake caliper piston dust boots, go to Step 5.

5 Replace the brake caliper piston dust boots (see TOPIx Workshop Manual section 206-03: Front Disc Brake - Brake Caliper Dust Boot - Vehicles with: High Performance Brakes)

6 **NOTE:**

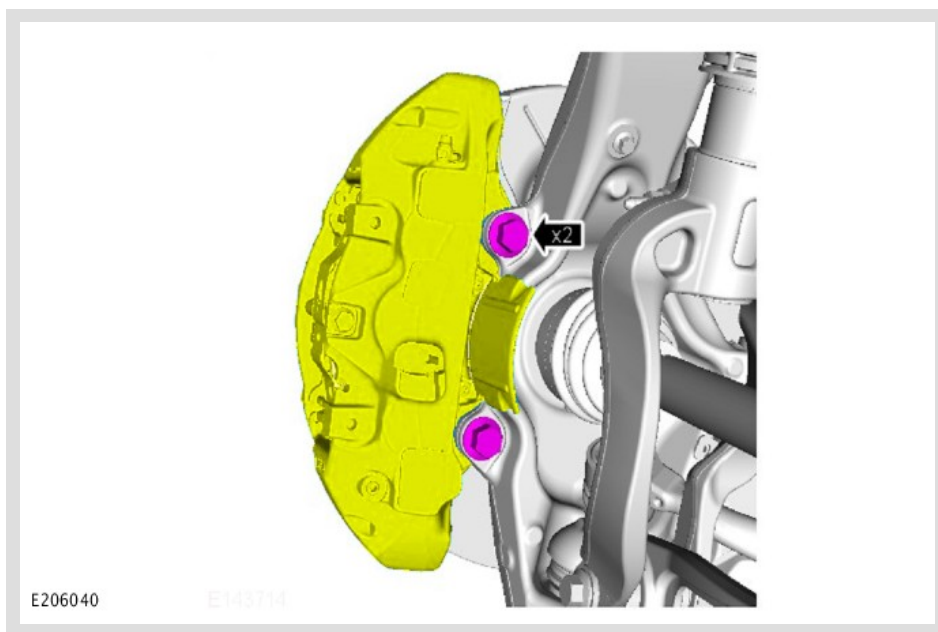
The brake caliper pistons and brake caliper piston dust boots **MUST** be cleaned thoroughly. Failure to follow this instruction may result in the brake pads not adhering to the brake calipers pistons properly, leading to reduced effectiveness of the repair.



Thoroughly clean all of the brake caliper pistons and the brake caliper piston dust boots with brake cleaner to remove all traces of grease and dust.

7 **CAUTIONS:**

- Make sure that no load is placed on the brake hose.
- New bolts MUST be installed.



Install the brake caliper.

- Torque: **Stage 1: 133 Nm**
- Torque: **Stage 2: 60°**

8

#### ⓘ CAUTION:

Apply long life lubricating grease only to the highlighted areas shown.



Apply long life lubricating grease to both ends of the brake pads.

9



Gently remove the brake pad backing.

10

Install the brake pads (see TOPIx Workshop Manual section 206-03: Front Disc Brake - Brake Pads - steps 7-10 for installation).

