Technical Service Information Bulletin

Brake Squeal/Squeak - Sport Package

Service Category Brake

Section Brake (front) **Market** USA

Lexus Supports ASE Certification

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2010 - 2017	LS460	

REVISION NOTICE

January 25, 2018 Rev2:

- **Applicability has been updated to include 2017 model year LS 460 vehicles.**

March 29, 2017 Rev1:

- **Applicability has been updated to include 2010 – 2012 model year LS 460 vehicles.**

Any previous printed versions of this bulletin should be discarded.

SUPERSESSION NOTICE

The information contained in this bulletin supersedes Service Bulletin No. L-SB-0008-12.

- **Applicability has been updated to include 2016 model year LS 460 vehicles.**

Service Bulletin No. L-SB-0008-12 is obsolete and any printed versions should be discarded. Be sure to review the entire content of this bulletin before proceeding.

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Brake Squeal/Squeak - Sport Package

Introduction

Some 2010 – 2012 model year LS 460 Sport Package-equipped vehicles and 2013 – 2017 model year LS 460 F Sport Package-equipped vehicles are equipped with high-friction brake pads, specifically designed for superior braking performance and response. As a result, when braking at slow speeds, the brakes may exhibit a squeal or squeak type noise.

For customers who find these characteristics objectionable, brake pads with alternative material are now available as service parts.

NOTE

- ANY changes made to the brake pad material may result in altered and possibly reduced braking performance and/or feeling under certain driving conditions, including track use.
- Please note the disclosures stated in the Brembo® Brake Disclosures Reference section, which includes the LS 460 F Sport sales information in both online and print form. Discuss with the customer prior to installing the alternate brake pads listed in this Service Bulletin.
- It is an inherent characteristic of materials and design of brake pads used in this high-performance brake system that brake noise/squeal/squeak may result.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
BR1600*	R & R Front and Rear Brake Pads	1.7	04465-0W180 04466-50170	36	83

*Please submit front and rear brake pads on one claim for this specified repair. Do NOT place on separate claims.

APPLICABLE WARRANTY

- **This repair is covered under the Lexus Basic Warranty. This warranty is in effect for 48 months or 50,000 miles, whichever occurs first, from the vehicle's in-service date.**
- **Warranty application is limited to occurrence of the specified condition described in this bulletin.**

Parts Information

PART NUMBER		DRIVETRAIN	PART NAME	QTY
PREVIOUS	NEW			
04465-0W151 04465-0W180	04465-0W200	RWD/AWD	Pad Kit, Disc Brake, Front	1
04466-50170	04466-50160		Pad Kit, Disc Brake, Rear	1
04945-50110	04945-0W020		Shim Kit, Anti Squeal, Front	1
04946-50100			Shim Kit, Anti Squeal, Rear	1

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Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Spreader, Disc Brake Piston Wide Type	09719-77010	1

NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

REQUIRED TOOLS & MATERIAL	PART NUMBER	QUANTITY
Grease	90998-94072	As Needed

Installation Procedure

1. Remove the front and rear brake pads.

   Refer to TIS, applicable model and model year Repair Manual:
   - 2010 / 2011 / 2012 / 2013 / 2014 / 2015 / 2016 / 2017 LS 460:
     Brake – Brake (front) – "Brake: Front Brake (for 6-Pot Caliper): Removal"
   - 2010 / 2011 / 2012 / 2013 / 2014 / 2015 / 2016 / 2017 LS 460:
     Brake – Brake (rear) – "Brake: Rear Brake: Removal"

   NOTICE

   When performing this procedure, the front and rear brake pads MUST be replaced together to ensure proper brake system operation.

2. Install the NEW front and rear brake pads and anti-squeal shims.

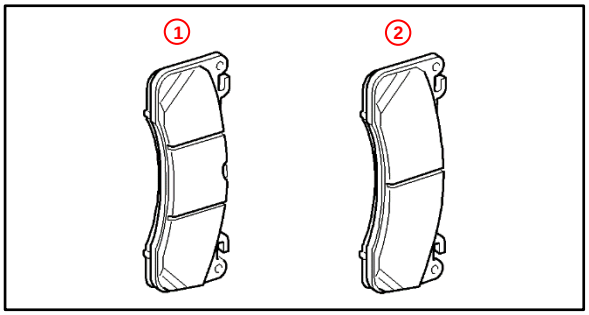
   NOTE

   When installing the front brake pads, ensure the single slit pad is installed on the inboard side of the calipers.

   A. Install the NEW front and rear brake pads.

   Refer to TIS, applicable model and model year Repair Manual:
   - 2010 / 2011 / 2012 / 2013 / 2014 / 2015 / 2016 / 2017 LS 460:
     Brake – Brake (front) – "Brake: Front Brake (for 6-Pot Caliper): Installation"
   - 2010 / 2011 / 2012 / 2013 / 2014 / 2015 / 2016 / 2017 LS 460:
     Brake – Brake (rear) – "Brake: Rear Brake: Installation"

Figure 1.



1	Double Slit
2	Single Slit

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Installation Procedure (Continued)

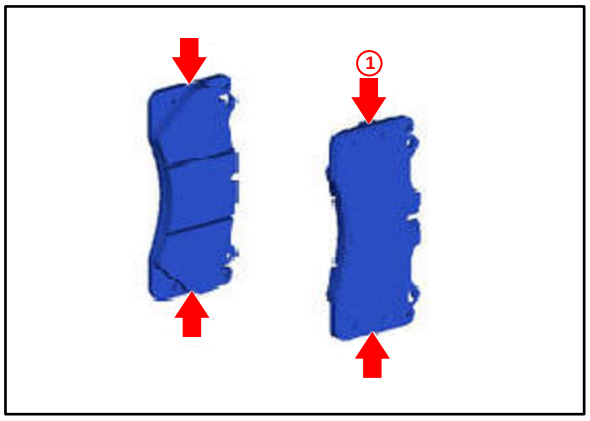
B. Install the anti-squeal shims.

(1) Apply a light coat of disc brake grease to the front disc brake pads.

NOTICE

- **When applying disc brake grease, use the grease enclosed with a front disc brake pad kit or supplied grease (Part No. 90998-94072) or equivalent.**
- **There should be no oil or grease on the friction surfaces of the pads and the disc.**

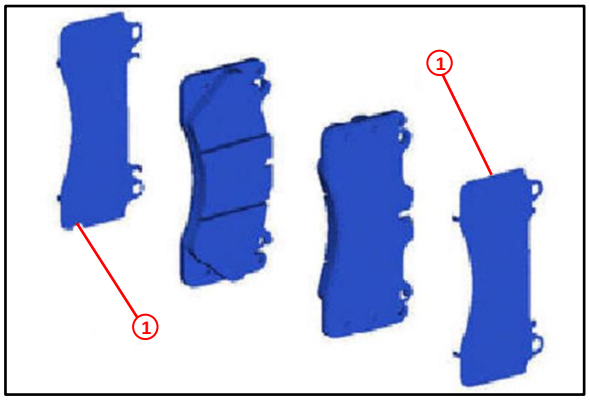
Figure 2.



1	Grease

(2) Install the front disc brake anti-squeal shim to each front disc brake pad.

Figure 3.



1	Front Disc Brake Anti-squeal Shim

3. Test drive the vehicle to confirm proper brake pad installation.

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Brembo® Brake Disclosures Reference

Online: http://www.lexus.com/models/LS/features

The 19-inch forged alloy wheels* are paired with high-performance Brembo® front brakes, featuring massive six-piston aluminum calipers with 14.8-inch ventilated rotors with spiral internal fins for enhanced cooling.

*High-friction brakes require periodic inspection and measurement as outlined in the Warranty and Services Guide. The pads and rotors are expected to experience greater wear than conventional brakes. Pad life may be less than 20,000 miles, and brake rotor life may be less than 50,000 miles depending on driving conditions. F Sport models may feature Brembo® brakes. It is an inherent characteristic of materials and design of brake pads used in this high-performance brake system that brake noise/squeal may result.

Printed LS 460 Brochure

WARRANTY Four-year/50,000-mile Lexus Limited Warranty. Six-year/70,000-mile Powertrain Warranty. Six-year/unlimited-mileage Corrosion Perforation Warranty. Eight-year/100,000-mile Hybrid System Warranty. All warranties with zero deductible. See the *LS Warranty and Services Guide* at your Lexus dealer for details.
DISCLOSURES **1.** Ratings achieved using the required premium unleaded gasoline with an octane rating of 91 or higher. If premium fuel is not used, performance will decrease. **2.** Be sure to obey traffic regulations and maintain awareness of road and traffic conditions at all times. Availability & accuracy of the information provided by the Navigation System is dependent upon many factors. Use common sense when relying on information provided. Services and programming subject to change. Services not available in every city or roadway. Updates may be available at an additional cost from your dealer. See *Navigation System Owner's Manual* for details. **3.** 18- or 19-in performance tires are expected to experience greater tire wear than conventional tires. Tire life may be substantially less than 15,000 miles, depending upon driving conditions. **4.** High-friction brakes require periodic inspection and measurement as outlined in the *Warranty and Services Guide*. The pads and rotors are expected to experience greater wear than conventional brakes. Pad life may be less than 20,000 miles, and brake rotor life may be less than 50,000 miles depending on driving conditions. F SPORT models may feature Brembo® brakes. It is an inherent characteristic of materials and design of brake pads used in this high-performance brake system that brake noise/squeal may result. **5.** Mark Levinson® is a registered trademark of Harman International Industries, Inc. **6.** Performance figures are for comparison only and were obtained with prototype vehicles by professional drivers using special safety equipment and procedures. Do not attempt. **7.** Use only if aware of circumstances surrounding the vehicle, and it is legal & safe to do so (e.g., car uncovered in open area, no people or pets in or nearby). If vehicle has not been driven for over a week, services will not be available until next time vehicle is started. Functionality depends on many factors, such as vehicle and smartphone connectivity. See usage precautions, service limitations & *Owner's Manual*. Data charges may apply. Registration, app download are required. Must have active Safety Connect subscription. Annual fee required after 1-year trial. **8.** Rear-seat leg rest may not fully raise based on height of passenger. Do not allow passengers to sit in a seat that has been fully or severely reclined while driving. This feature is intended for use only when the vehicle is parked. While the vehicle is being driven, all vehicle occupants should have the seatback upright, sit well back in the seat and properly wear the seatbelts provided. In the event of a collision, the more the seat is reclined, the greater the risk of death or personal injury. See *Owner's Manual* for additional information. **9.** If leg rest is in use, seating capacity could be reduced from four to three. **10.** Do not use the ottoman feature when the vehicle is in motion. Only use when the vehicle is stationary. If the ottoman feature is in use during an accident the lap belt may slide past the hips. This could also result in restraint forces being applied directly to the abdomen or your neck may contact the shoulder belt, increasing the risk of death or serious injury. See *Owner's Manual* for details. **11.** Be sure to obey traffic regulations and maintain awareness of road and traffic conditions at all times. Apps/services vary by phone/ carrier; functionality depends on many factors. Select apps use large amounts of data; you are responsible for charges. Apps & services subject to change. See lexus.com/enform for details. **12.** Contact with the response center may not be available in all areas. Service Agreements required. A variety of subscription terms available; charges will vary. See lexus.com for details. **13.** Information provided is based on the last time data was collected from the vehicle and may not be up to date. System functionality depends on vehicle connectivity. **14.** iPhone® and iPad® are registered trademarks of Apple Inc. All rights reserved. **15.** FaceTime® is a registered trademark of Apple Inc. All rights reserved. **16.** Advanced Pre-Collision System is designed to help reduce the crash speed and damage in certain frontal collisions only. Driver Attention Monitor is designed to alert the driver if a potential hazard is detected ahead and the driver's face appears to be turned away. They are not collision-avoidance systems and are not substitutes for safe and attentive driving. System effectiveness depends on many factors. See *Owner's Manual* for details. **17.** Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection, range and clarity of the monitor. For a complete list of limitations and directions regarding use of the monitor, see *Owner's Manual*. **18.** Do not rely exclusively on the Rear Cross-Traffic Alert system. Always look over your shoulder and use your mirrors to confirm rear clearance. There are limitations to the function, detection, range and clarity of the system. To learn more, see *Owner's Manual*. **19.** Lane Keep Assist is designed to read lane markers under certain conditions. It provides a visual and audible alert and slight steering force when lane departure is detected. It is not a collision-avoidance system or a substitute for safe and attentive driving. Effectiveness depends on many factors. See *Owner's Manual* for more information. **20.** This floor mat was designed specifically for use in your model and model year vehicle and SHOULD NOT be used in any other vehicle. To avoid potential interference with pedal operation, each mat must be secured with its fasteners. Do not install a floor mat on top of an existing floor mat. **21.** Genuine Lexus Paint Protection Film is designed for specific sections of the hood, front fenders and side mirror housings. It can also be applied to select portions of the front bumper for an additional charge. Lexus Genuine Accessory Warranty will only apply when the installation is performed by a trained Lexus-approved installer. See Lexus dealer for details. **22.** 2016 EPA-estimated ratings. Actual mileage will vary. **23.** The SmartAccess system may interfere with some pacemakers or cardiac defibrillators. If you have one of these medical devices, please talk to your doctor to see if you should deactivate this system. **24.** The engine immobilizer is a state-of-the-art anti-theft system. When you insert your key into the ignition switch or bring a SmartAccess fob into the vehicle, the key transmits an electronic code to the vehicle. The engine will only start if the code in the transponder chip inside the key/fob matches the code in the vehicle's immobilizer. Because the transponder chip is embedded in the key/fob, it can be costly to replace. If you lose a key or fob, your Lexus dealer can help. Alternatively, you can find a qualified independent locksmith to perform high-security key services by consulting your local *Yellow Pages* or by contacting www.aloa.org. **25.** Be sure to obey traffic regulations and maintain awareness of road and traffic conditions. **26.** HD Radio™ Technology manufactured under license from iBiquity Digital Corporation U.S. and Foreign Patents. HD Radio™ and the HD, HD Radio, and "Arc" logos are proprietary trademarks of iBiquity Digital Corp. **27.** The backup camera does not provide a comprehensive view of the rear area of the vehicle. You should also look around outside your vehicle and use your mirrors to confirm rearward clearance. Cold weather may limit effectiveness and view may become cloudy. **28.** Concentrating on the road should always be your first priority while driving. Do not

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Printed LS 460 Brochure (Continued)

use the hands-free phone system if it will distract you. The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Lexus is under license. A compatible *Bluetooth*-enabled phone must first be paired. Phone performance depends on software, coverage & carrier. **29.** Do not rely exclusively on the Intuitive Parking Assist system. Always look over your shoulder and use your mirrors to confirm clearance. System effectiveness depends on many factors. See *Owner's Manual* for details. **30.** All the airbag (AB) systems are Supplemental Restraint Systems. All ABs (if installed) are designed to inflate only under certain conditions and in certain types of severe collisions: frontal and knee ABs typically inflate in frontal collisions; side and side curtain ABs in side collisions; Roll-Sensing Curtain ABs at a severe tilt degree, roll or lateral G-force. In all other accidents, the ABs will not inflate. To decrease the risk of injury from an inflating AB, always wear seatbelts, sit upright in the middle of the seat as far back as possible and do not lean against the door. Do not put objects in front of an AB or around the seatback. Do not use a rearward-facing child seat in any front passenger seat. The force of an inflating AB may cause serious injury or death. See *Owner's Manual* for further information/warnings. **31.** Vehicle Dynamics Integrated Management (VDIM) is an electronic system designed to help the driver maintain vehicle control under adverse conditions. It is not a substitute for safe driving practices. Factors including speed, road conditions and driver steering input can all affect whether VDIM will be effective in preventing a loss of control. See *Owner's Manual* for further details. **32.** The Pre-Collision System is designed to help reduce the crash speed and damage in certain frontal collisions only. It is not a collision-avoidance system and is not a substitute for safe and attentive driving. System effectiveness depends on many factors, such as speed, driver input and road conditions. See *Owner's Manual* for further information. **33.** Dynamic Radar Cruise Control is designed to assist the driver and is not a substitute for safe and attentive driving practices. See *Owner's Manual* for details. **34.** Intelligent high-beams system operates at speeds above 21 mph. Situations such as a dirty windshield, variable weather, lighting conditions and hilly terrain will limit effectiveness, requiring the driver to manually turn off. See *Owner's Manual* for details. **35.** The Active Pedestrian Detection System, part of the Advanced Pre-Collision System, is designed to help reduce the impact speed and damage in certain frontal collisions only. It is not a collision-avoidance system and is not a substitute for safe and attentive driving. System effectiveness depends on many factors, such as speed, driver input and road conditions. See *Owner's Manual* for further information. **36.** The Driver Attention Monitor is designed to alert the driver if a potential hazard is detected ahead and the driver's face appears to be turned away. It is not a collision-avoidance system and is not a substitute for safe and attentive driving. System effectiveness depends on many factors. See *Owner's Manual* for further information. **37.** Low-Speed Collision Avoidance Assist operates at 24 mph or less. It is intended to assist a driver, but it is the driver's responsibility to be aware of the vehicle's surroundings. The system cannot prevent all collisions, and performance is dependent on road, weather and vehicle conditions. **38.** A single-disc DVD player is included. A separate DVD player or game system utilizing the center console's video/audio inputs is required in order to use the split-screen function of the dual-screen system. **39.** Headphones are for passenger use only. Do not use while operating vehicle. **40.** TORSEN® is a registered trademark of Zexel Torsen, Inc. Lexus strives to build vehicles to match customer interest, and thus they typically are built with popular options and option packages. Not all options/packages are available separately, and some may not be available in all regions of the country. See lexus.com for information about options/packages commonly available in your area. If you would prefer a vehicle without any or with different options, contact your dealer to check for current availability or the possibility of placing a special order. Specifications, features, equipment, technical data, performance figures, options, and color and trim are based upon information available at time of printing, are subject to change without notice, and are for mainland U.S.A. vehicles only. Some vehicles shown with available equipment. See your Lexus dealer for details. Lexus reminds you to wear seatbelts, secure children in rear seat, obey all traffic laws and drive responsibly. For more information, call 800-USA-LEXUS (872-5398) or visit lexus.com. To learn more about your financing options, contact your Lexus dealer or call Lexus Financial Services at 800-874-7050.

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