


Air Spring Rattle Noise

Service Category Suspension

Section Front Suspension

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2007 – 2011	LS460	
2008 – 2011	LS600H	

Introduction

Some 2007 – 2011 LS 460/460L and 2008 – 2011 LS 600hL model year vehicles may exhibit a knocking type noise when going over bumps. This may be accompanied by a rough ride condition. Follow the Repair Procedure in this bulletin to address this condition.

Production Change Information

This TSIB applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

PLANT	MODEL	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
TMC Tahara	LS 460	RR	JTHBL1EF#3B5106305
			JTHBL5EF#2B5106223
		AWD	JTHCL1EF#2B5011223
			JTHCL5EF#2B5011259
	LS 460L	RR	JTHGL1EF#2B5043901
			JTHGL5EF#2B5046887
		AWD	JTHDL1EF#5B5003699
			JTHDL1EF#2B5003702
	LS 600hL		JTHDU1EF#8B5014239
			JTHDU5EF#1B5013698

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Warranty Information

OP CODE	VARIED WORK CODE	COMBO CODE	DESCRIPTION	DRIVE TRAIN	MODEL	TIME	OFP	T1	T2
430151	P	N/A	Front Shock Absorber (w/ Air Suspension)	2WD	LS 460/460L	1.8	480#0-####	91	14
		C	Opposite Side (w/ Air Suspension)			1.1			
		D	Front Toe-In			0.1			
		E	Front camber and/or Caster			0.3			
	N/A	N/A	Front Shock Absorber	4WD	LS 460/460L	2.1			
					LS 600hL	2.2			
		A	Opposite Side		LS 460/460L	1.3			
					LS 600hL	1.4			
		D	Front Toe-In		LS 460/460L/600hL	0.1			
		E	Front camber and/or Caster			0.3			
482201	Q	N/A	Rear Shock Absorber (w/ Air Suspension)	2WD	LS 460	2.8			
					LS 460L	2.9			
		D	Opposite Side (w/ Air Suspension)		LS 460/460L	0.8			
		E	Rear Toe-in			0.2			
	N/A	N/A	Rear Shock Absorber	4WD	LS 460	2.8			
					LS 460L/600hL	2.9			
		A	Opposite Side		LS 460/460L/600hL	0.8			
		E	Rear Toe-in			0.2			

APPLICABLE WARRANTY

- This repair is covered under the Lexus Comprehensive 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.

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Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
48010-50152	48010-50153	Cylinder Assembly, Pneumatic Fr RH W/Shock Absorber	1
48010-50201	48010-50202		
48010-50253	48010-50254		
48010-50260	48010-50261		
48010-50270	48010-50271		
48010-50290	48010-50291		
48020-50152	48020-50153	Cylinder Assembly, Pneumatic Fr LH W/Shock Absorber	1
48020-50201	48020-50202		
48020-50253	48020-50254		
48020-50260	48020-50261		
48020-50270	48020-50271		
48020-50290	48020-50291		
48080-50152	48080-50153	Cylinder Assembly, Pneumatic Rr RH W/Shock Absorber	1
48080-50163	48080-50164		
48080-50201	48080-50202		
48080-50240	48080-50241		
48080-50260	48080-50261		
48080-50270	48080-50271		
48080-50280	48080-50281		
48080-50310	48080-50311		
48090-50152	48090-50153	Cylinder Assembly, Pneumatic Rr LH W/Shock Absorber	1
48090-50163	48090-50164		
48090-50201	48090-50202		
48090-50240	48090-50241		
48090-50260	48090-50261		
48090-50270	48090-50271		
48090-50280	48090-50281		
48090-50310	48090-50311		
89241-30040	89241-30041	Actuator, Absorber Control	1

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Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Ball Joint Puller	09628-50010	1
Air Tube Separator	09730-00010	1

* Essential SST.

NOTE

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

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
ChassisEAR™ (or equivalent)	ADE	JSPSM06606 (JS Products)	1

NOTE

- A mechanic's stethoscope or similar tool may be used in place of ChassisEAR™.
- ChassisEAR™ may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

Repair Procedure

1. Conduct a road test over bumps and rough road surfaces, such as Bott's Dots or other raised pavement markers or speed bumps to verify the noise.

HINT

Use chassis ears to help in verifying condition.

NOTE

Vehicle may have both conditions.

2. Replace the affected Front Shock Absorber with updated actuator.

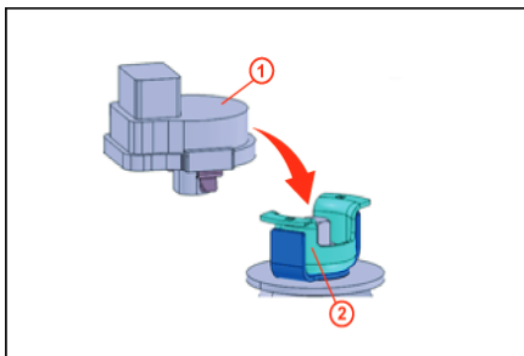
NOTE

The installation instructions for attaching the air suspension actuator have changed, the updated bracket changes are shown below.

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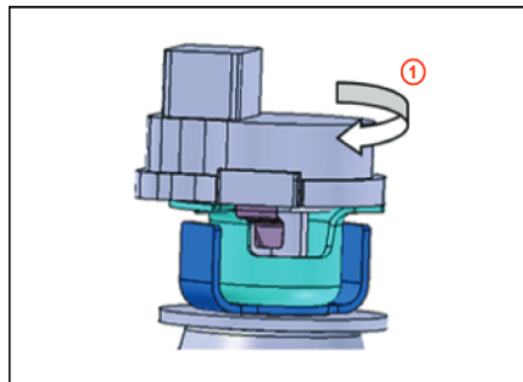
Repair Procedure (Continued)

Figure 1.



1	Air Suspension Actuator
2	Air Suspension Bracket (on the top of the suspension)

Figure 2.



1	Locate center and turn clockwise
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Refer to the Technical Information System (TIS), applicable model year LS 460 Repair Manual:

Front Shock Absorber

- [2007](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) LS 460:
Suspension – Front Suspension – “Front Shock Absorber (w/ Air Suspension): Removal”
- [2007](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) LS 460:
Suspension – Front Suspension – “Front Shock Absorber (w/ Air Suspension): Installation”
- [2008](#) / [2009](#) / [2010](#) / [2011](#) LS 600hL:
Suspension – Front Suspension – “Front Shock Absorber (w/ Air Suspension): Removal”
- [2008](#) / [2009](#) / [2010](#) / [2011](#) LS 600hL:
Suspension – Front Suspension – “Front Shock Absorber (w/ Air Suspension): Installation”

Rear Shock Absorber

- [2007](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) LS 460:
Suspension – Rear Suspension – “Rear Shock Absorber (w/ Air Suspension): Removal”
- [2007](#) / [2008](#) / [2009](#) / [2010](#) / [2011](#) LS 460:
Suspension – Rear Suspension – “Rear Shock Absorber (w/ Air Suspension): Installation”
- [2008](#) / [2009](#) / [2010](#) / [2011](#) LS 600hL:
Suspension – Rear Suspension – “Rear Shock Absorber (w/ Air Suspension): Removal”
- [2008](#) / [2009](#) / [2010](#) / [2011](#) LS 600hL:
Suspension – Rear Suspension – “Rear Shock Absorber (w/ Air Suspension): Installation”

3. Verify condition has been resolved.