

ABS Brake Warning Light On

Service
Category Brake

Section Brake Control/Dynamic Control System Market USA



Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2018 - 2023	LC500, LC500H	
2021 - 2023	LC500C	
2018 - 2023	LS500, LS500H	
2015	RX450H	
2018 - 2022	RX450H	

Introduction

Some 2018 – 2023 model year LC 500, and LC 500h, 2021 – 2023 model year LC 500c, 2018 – 2023 model year LS 500, and LS 500h, 2015 model year RX 450h, and 2018 – 2022 model year RX 450h vehicles may exhibit a condition in which the brake, ABS, and/or TRAC warning lights are on and/or a Check VSC message displays. One or more of the following specific Diagnostic Trouble Codes (DTCs) C1391, C1252, C1256, and/or C1253 will be stored in the vehicle memory to be used as verification. This condition may be caused by a small internal brake fluid leak inside the brake actuator. Follow the Repair Procedure in this bulletin to address this condition.

ABS Brake Warning Light On

Warranty Information

OP CODE	DESCRIPTION	MODEL	MODEL YEAR	TIME	OFF	T1	T2
BR2602	R & R Brake Actuator Assy & Brake Booster Pump w/Accumulator	LC 500	2018 – 2023	3.7	44050-####* 47070-####*	8C	99
		LC 500h					
		LS 500		4.8			
		LS 500h					
		LC 500c	2021 – 2023	3.7			
		RX 450h	2015	2.3			
			2018 – 2022	2.7			

*Warranty claim MUST be submitted with the correct 10-digit OFF. Choose the correct OFF for the vehicle being repaired by searching for the parts in the Electronic Parts Catalog using the VIN filter.

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

MODEL	MODEL YEAR	PART NUMBER		PART NAME	QTY
		PREVIOUS	NEW		
RX 450h	2015	44050-48320	04008-26448	Actuator Assy, Brake w/Fluid	1
	2018 – 2022				
	2015	47070-48020	04008-51148	Pump Kit, Brake Booster w/Accumulator	
	2018 – 2022	47070-48080	04002-07348		
LS 500h LS 500	2018 – 2023	44050-11010	04005-18142	Actuator Assy, Brake w/Fluid	
		47070-50070	04009-57350	Pump Kit, Brake Booster w/Accumulator	
LC 500 LC 500h	2018 – 2023	44050-11010	04005-18142	Actuator Assy, Brake w/Fluid & Pump Assy, Brake Booster w/Accumulator	
LC 500c	2021 – 2023	47070-11030	04009-57111		

ABS Brake Warning Light On

Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	QTY
DOT 3 Brake Fluid	1 – 2 liters

*Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-368-6787 or by visiting *Home – Service Resources – Lexus Tools and Equipment Program*.

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVI*	ADE	TSADVUNIT	1
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ Software version 2025.04.002.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 or by visiting *TIS – Diagnostics – Tools & Equipment – Techstream Order Portal*.

Repair Procedure

- Confirm the condition exists.
Are the brake, ABS, and/or TRAC warning lights ON and/or does a Check VSC message display?
 - YES** — Continue to step 2.
 - NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- Using GTS+, check for and record ANY stored DTCs.
Are ANY of the following DTCs stored: C1391, C1252, C1256, and/or C1253?
 - YES** — Continue to step 3.
 - NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

ABS Brake Warning Light On

Repair Procedure (continued)

3. Remove the brake actuator.

Refer to TIS, applicable model and model year Repair Manual:

- [2015](#) / [2018 \(12/2017 – 03/2018\)](#) / [2018 \(03/2018 – 08/2018\)](#) / [2019](#) / [2020 – 2022](#) RX 450h:
Brake – Brake Control / Dynamic Control Systems – Break Actuator – Removal
- [2018](#) / [2019 – 2020](#) / [2021 – 2022](#) / [2023](#) LS 500:
Brake – Brake Control / Dynamic Control Systems – Break Actuator (w/o Vacuum Brake Booster) – Removal
- [2018](#) / [2019 – 2020](#) / [2021 – 2022](#) / [2023](#) LS 500:
Brake – Brake Control / Dynamic Control Systems – Break Actuator (w/ Vacuum Brake Booster) – Removal
- [2018](#) / [2019 – 2020](#) LS 500h:
Brake – Brake Control / Dynamic Control Systems – Break Actuator – Removal
- [2022](#) / [2023](#) LS 500h:
Brake – Brake Control / Dynamic Control Systems – Break Actuator (w/ Advanced Park) – Removal
- [2021 – 2022](#) / [2023](#) LS 500h:
Brake – Brake Control / Dynamic Control Systems – Break Actuator (w/o Advanced Park) – Removal
- [2018 – 2023](#) LC 500:
Brake – Brake Control / Dynamic Control Systems – Break Actuator – Removal
- [2018 – 2023](#) LC 500h:
Brake – Brake Control / Dynamic Control Systems – Break Actuator – Removal
- [2021 – 2023](#) LC 500c:
Brake – Brake Control / Dynamic Control Systems – Brake Actuator – Removal

ABS Brake Warning Light On

Repair Procedure (continued)

4. Remove the brake booster pump assembly.

Refer to TIS, applicable model and model year Repair Manual:

- [2018](#) / [2019 – 2020](#) / [2021 – 2022](#) / [2023](#) LS 500:
Brake – Brake System (Other) – Brake Booster Pump – Removal
- [2018](#) / [2019 – 2020](#) LS 500h:
Brake – Brake System (Other) – Brake Booster Pump – Removal
- [2021](#) LS 500h:
Brake – Brake System (Other) – Brake Booster Pump (w/o Advanced Park) – Removal
- [2022](#) / [2023](#) LS 500h:
Brake – Brake System (Other) – Brake Booster Pump (w/ Advanced Park) – Removal
- [2022](#) / [2023](#) LS 500h:
Brake – Brake System (Other) – Brake Booster Pump (w/o Advanced Park) – Removal
- [2018 – 2023](#) LC 500:
Brake – Brake System (Other) – Brake Booster Pump – Removal
- [2018 – 2023](#) LC 500h:
Brake – Brake System (Other) – Brake Booster Pump – Removal
- [2021 – 2023](#) LC 500c:
Brake – Brake System (Other) – Brake Booster Pump – Removal

ABS Brake Warning Light On

Repair Procedure (continued)

5. Install the NEW brake actuator.

Refer to TIS, applicable model and model year Repair Manual:

- [2015](#) / [2018 \(12/2017 – 03/2018\)](#) / [2018 \(03/2018\) – 2022](#) RX 450h:
Brake – Brake Control / Dynamic Control Systems – Brake Actuator – Installation
- [2018 – 2020](#) / [2021 – 2023](#) LS 500:
*Brake – Brake Control / Dynamic Control Systems –
Brake Actuator (w/o Vacuum Brake Booster)– Installation*
- [2018](#) / [2019 – 2020](#) / [2021 – 2023](#) LS 500:
*Brake – Brake Control / Dynamic Control Systems –
Brake Actuator (w/ Vacuum Brake Booster)– Installation*
- [2018 – 2020](#) LS 500h:
Brake – Brake Control / Dynamic Control Systems – Brake Actuator – Installation
- [2021 – 2023](#) LS 500h:
*Brake – Brake Control / Dynamic Control Systems –
Brake Actuator (w/o Advanced Park) – Installation*
- [2022 – 2023](#) LS 500h
*Brake – Brake Control / Dynamic Control Systems –
Brake Actuator (w/ Advanced Park) – Installation*
- [2018 – 2023](#) LC 500:
Brake – Brake Control / Dynamic Control Systems – Brake Actuator – Installation
- [2018 – 2023](#) LC 500h:
Brake – Brake Control / Dynamic Control Systems – Brake Actuator – Installation
- [2021 – 2023](#) LC 500c:
Brake – Brake Control / Dynamic Control Systems – Brake Actuator – Installation

ABS Brake Warning Light On

Repair Procedure (continued)

6. Install the NEW brake booster pump assembly.

Refer to TIS, applicable model and model year Repair Manual:

- [2018 – 2023](#) LS 500
Brake – Brake System (Other) – Brake Booster Pump – Installation
- [2018 – 2020](#) LS 500h
Brake – Brake System (Other) – Brake Booster Pump – Installation
- [2021 – 2023](#) LS 500h
Brake – Brake System (Other) – Brake Booster Pump (w/o Advanced Park) – Installation
- [2022 – 2023](#) LS 500h
Brake – Brake System (Other) – Brake Booster Pump (w/ Advanced Park) – Installation
- [2018 – 2023](#) LC 500
Brake – Brake System (Other) – Brake Booster Pump – Installation
- [2018 – 2023](#) LC 500h
Brake – Brake System (Other) – Brake Booster Pump – Installation
- [2021 – 2023](#) LC 500c
Brake – Brake System (Other) – Brake Booster Pump – Installation

7. Using GTS+, clear ANY stored DTCs and test-drive the vehicle to confirm the conditions are no longer present.