

ABS Brake Warning Light On

Service Category Brake

Section Brake Control/Dynamic Control System

Market USA

Toyota Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2016 - 2018	GS450H	
2013 - 2016	LS600H	
2018 - 2021	NX300H	

Introduction

Some 2016 – 2018 model year GS 450h, 2013 – 2016 model year LS 600h, and 2018 – 2021 model year NX 300h 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.

Warranty Information

OP CODE	DESCRIPTION	MODEL	TIME	OFP	T1	T2
BR2409	R & R Brake Actuator Assy	GS 450h	1.3	44050-*****	8C	99
		LS 600h	2.1			
BR2410	R & R Brake Actuator Assy, With Master Cylinder	NX 300h	2.3	47050-*****		

*Warranty claim MUST be submitted with the correct 10-digit OFP. Choose the correct OFP 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.

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Parts Information

MODEL	MODEL YEAR	PART NUMBER		PART NAME	QTY
		PREVIOUS	NEW		
GS 450h	2016 – 2018	44050-30670	04003-44930	Brake Actuator Assy	1
LS 600h	2013 – 2016	44050-50110	04003-45450		1
		47070-50040	04002-07150	Brake Booster Pump Kit, w/ Accumulator	1
		44598-50010		Brake Actuator Bracket Clamp	1
NX 300h	2018 – 2019	47050-78120	04004-22178	Brake Booster Assy, w/ Master Cylinder	1
	2020	47050-78121	04004-22278		1
	2021	47050-78310	04004-22378		1
	2018 – 2021	47070-12020	04006-22212	Brake Booster Pump Assy	1

Required Tools & Equipment

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

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi*	ADE	TSADVUNIT	1
Techstream 2.0		TS2UNIT	
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ Software version 2024.04.004.02 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*.

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Repair Procedure

1. 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.

2. 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.

3. Remove the brake actuator and brake booster assembly w/ master cylinder.
Refer to TIS, applicable model and model year Repair Manual:
 - [2013](#) / [2014](#) / [2015](#) / [2016](#) LS 600h:
Brake – Brake Control – Brake Actuator – Removal

NOTE

Procedure includes removal of the brake accumulator pump assembly.

 - [2016 – 2018](#) GS 450h:
Brake – Brake Control / Dynamic Control Systems – Brake Actuator – Removal
 - [2018 – 2020](#) / [2020 – 2021](#) NX 300h:
Brake – Brake System (Other) – Brake Booster – Removal

4. Is the vehicle an NX 300h, GS 450h, or an LS 600h?
 - If an NX 300h continue to step 5.
 - If a GS 450h or LS 600h go to step 6.

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Repair Procedure (continued)

5. Remove the brake booster pump assembly.

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

- [2018 – 2020](#) / [2021](#) NX 300h:

Brake – Brake System (Other) – Brake Booster Pump – Removal

6. Install the NEW brake actuator and brake booster assembly w/ master cylinder.

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

- [2013](#) / [2014](#) / [2015](#) / [2016](#) LS 600h:

Brake – Brake Control – Brake Actuator – Installation

NOTE

Procedure includes installation of the brake accumulator pump assembly.

- [2016 – 2018](#) GS 450h:

Brake – Brake Control / Dynamic Control Systems – Brake Actuator – Installation

- [2018 – 2020](#) / [2020 – 2021](#) NX 300h:

Brake – Brake System (Other) – Brake Booster – Installation

7. Is the vehicle an NX 300h, GS 450h, or an LS 600h?

- If an NX 300h continue to step 8.
- If a GS 450h or LS600h go to step 9.

8. Install the NEW brake booster pump assembly.

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

- [2018 – 2020](#) / [2020 – 2021](#) NX 300h:

Brake – Brake System (Other) – Brake Booster Pump – Installation

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