


# Brake Squawk/Knock Noise

**Service Category** Brake

**Section** Brake System

**Market** USA

Lexus Supports  
ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2016 - 2018	RX450H	

## Introduction

Some 2016 – 2018 model year RX450h vehicles may exhibit a squawk or knock noise from the engine compartment when depressing and/or releasing the brake pedal. Follow the Repair Procedure in this bulletin to address this condition.

## Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VIN shown below.

MODEL	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
RX450h	TMMC	Hybrid	2T2BGMCA#JC021604

## Warranty Information

OP CODE	DESCRIPTION	MODEL YEAR	TIME	OPF	T1	T2
BR1809	R & R Brake Actuator, Master Cylinder Reservoir and Perform Reflash	2016 – 2017	2.9	44050-48320	91	88
BR1810	R & R Brake Actuator and Master Cylinder Reservoir	2018	2.1	44050-48320		

### 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.

## Brake Squawk/Knock Noise

### Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
47220-48270	47220-48271	Reservoir Assembly, Master Cylinder	1
44050-48320		Actuator Assy, Brake	1
895B0-48030 895B0-48031		Computer Assy, Skid Control ECU	-
00451-00001-LBL		Authorized Modifications Label	1

**NOTE**

- The ECU should NOT be replaced as part of the Repair Procedure.
- Authorized Modifications Labels may be ordered in packages of 25 from the Materials Distribution Center (MDC) through *Dealer Daily – Parts – Dealer Support Materials Orders*.

### Required Tools & Equipment

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

\*Essential SST.

**NOTE**

- Only ONE of the Techstream units listed above is required.
- Software version 13.30.018 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.
- Use Techstream or an approved J2534 interface to perform flash reprogramming updates. Visit [techinfo.toyota.com](http://techinfo.toyota.com) for more information regarding J2534 reprogramming.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
GR8 Battery Diagnostic Station*	<a href="#">00002-MCGR8</a>	1

\*Essential SST.

**NOTE**

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

## Brake Squawk/Knock Noise

### Calibration Information

MODEL	ECU	CALIBRATION ID	
		PREVIOUS	NEW
RX450h	Main	F152648501	<a href="#">F152648740</a>
		F152648502	
	Sub	F152648511	<a href="#">F152648750</a>
		F152648512	

### Repair Procedure

1. Confirm the condition exists.
 

Is there a squawk/knock noise from the engine compartment when either depressing and/or releasing the brake pedal?

  - **YES** — Continue to step 2.
  - **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
  
2. Remove the brake actuator and master cylinder reservoir assembly.
 

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

  - [2016](#) / [2017](#) / [2018](#) RX450h:  
*Brake – Brake Control/Dynamic Control System – “Brake Control / Dynamic Control Systems: Brake Actuator: Removal”*
  
3. Install the NEW brake actuator and master cylinder reservoir assembly.
 

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

  - [2016](#) / [2017](#) / [2018](#) RX450h:  
*Brake – Brake Control/Dynamic Control System – “Brake Control / Dynamic Control Systems: Brake Actuator: Installation”*
  
4. Is the RX450h model year 2016 – 2017?
  - **YES** — Continue to step 5.
  - **NO** — Go to step 7.

## Brake Squawk/Knock Noise

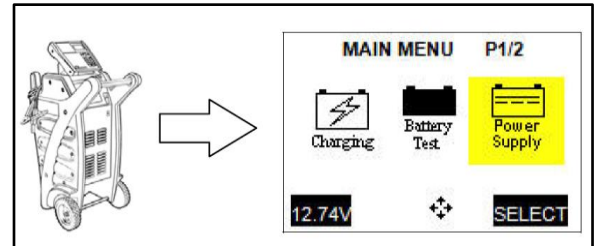
### Repair Procedure (continued)

5. Reflash the ECU.
  - A. Connect the GR8 battery diagnostic station to the vehicle and turn it ON, then select Power Supply Mode as shown in Figure 1.

#### NOTE

- The GR8 battery diagnostic station **MUST** be used in Power Supply Mode to maintain battery voltage at 13.5V while flash reprogramming the vehicle.
- For details on how to use the GR8 battery diagnostic station, refer to the [GR8 Instruction Manual](#) located on *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.
- If the GR8 battery diagnostic station is unavailable, the PSC Power Supply Charger / Maintainer (MTRPSC550SKT) may be used.

Figure 1.



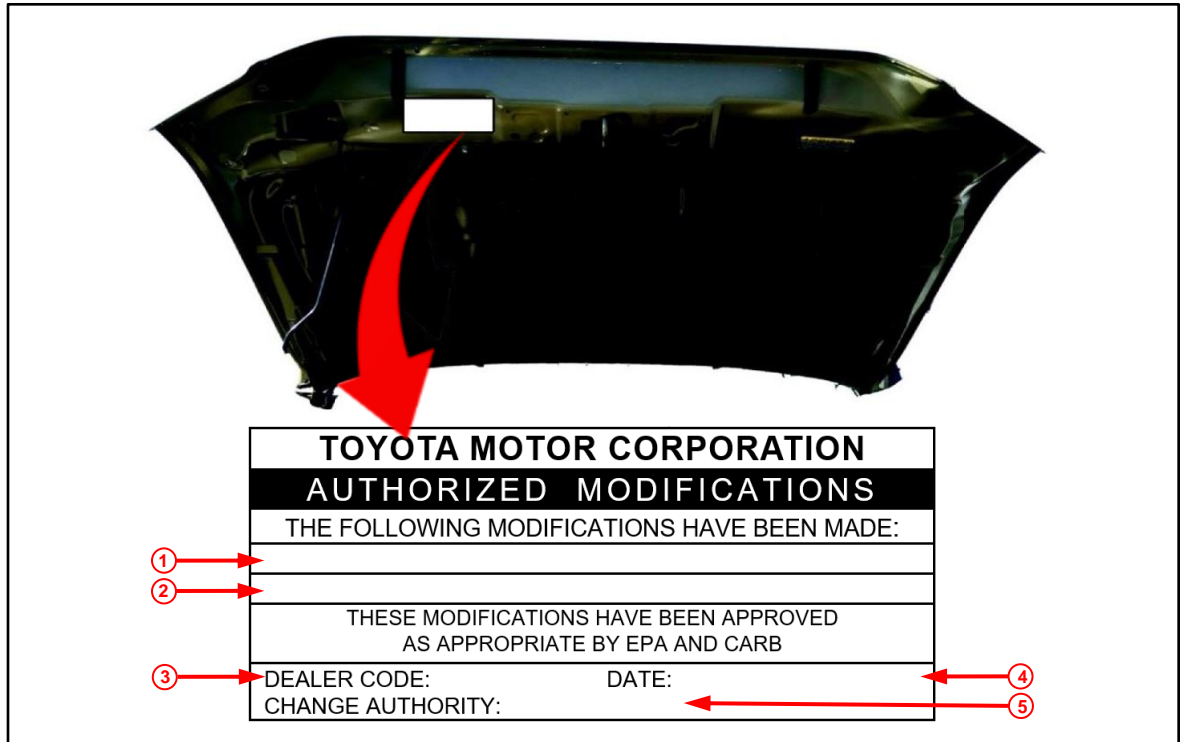
- B. Connect Techstream to the DLC3.
  - C. Cycle the ignition switch to the "IG-ON" mode (push the Power button twice when the engine is OFF. DO NOT depress the brake pedal.)
  - D. Reflash the skid control ECU with the NEW Calibration ID following the procedures outlined in [L-SB-0001-18](#), *Techstream ECU Flash Reprogramming Procedure*. Please refer to the table on pg. 3 for the NEW Calibration ID.
6. Prepare and install the Authorized Modifications Label.
  - A. Using a permanent marker, enter the following information on the label:
    - Skid control part number
    - Calibration ID(s) [Refer to the **Calibration Information** section for the **NEW Calibration ID**]
    - Dealer Code
    - Repair Date
    - Change Authority [**This bulletin number**]

## Brake Squawk/Knock Noise

### Repair Procedure (continued)

- B. Install the Authorized Modifications Label on the vehicle at the location shown in Figure 2. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.

**Figure 2. Location of Authorized Modifications Label on 2016 – 2018 RX450h**



<b>1</b>	<b>Replacement Skid Control Part Number (e.g., 895B0-48030 or 895B0-48031)</b>
<b>2</b>	<b>New Calibration ID (e.g., F152648740)</b>
<b>3</b>	<b>Dealer Code</b>

<b>4</b>	<b>Date Completed</b>
<b>5</b>	<b>This SB Number</b>

7. Confirm normal braking operation and no noise is heard when either depressing and/or releasing the brake pedal.