

# "Braking Power Low" Message Before or During Startup

**Service Category** Brake

**Section** Brake System

**Market** USA

Lexus Supports  
ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2016 - 2017	RX350	WMI(s): 2T2

## Introduction

Some 2016 – 2017 model year RX 350 vehicles may exhibit a “Braking Power Low” warning message before or during startup with no related Diagnostic Trouble Codes (DTCs). Vehicles affected by this condition will operate normally and the warning light will disappear immediately once the engine is started. To minimize customer confusion, the meter control unit logic has been modified to address this condition. Follow the Repair Procedure in this bulletin to reprogram the meter control unit.

**Figure 1.**



### NOTE

This is an example display. Other displays may vary.

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### Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG1714	Reprogram Combination Meter Control Unit	1.0	83800-48U70 83800-0E710 83800-0E720 83800-0E730 83800-48V70 83800-0EA30 83800-0EA40 83800-0EA50 83800-48V71 83800-0EA31 83800-0EA41 83800-0EA51 83800-48U10 83800-48U20 83800-48W60 83800-48W70 83800-48W61 83800-48W71	8C	99

**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

WMI	DRIVETRAIN	TRIM	PART NUMBER		PART NAME	QTY
			PREVIOUS	NEW		
2T2 JTJ	4WD 2WD	Non-F Sport	83800-48U70	83800-48U71	Computer, Meter ECU	-
			83800-0E710	83800-0E711		
			83800-0E720	83800-0E721		
			83800-0E730	83800-0E731		
			83800-48V70			
			83800-0EA30	83800-48V72		
			83800-0EA40	83800-0EA32		
			83800-0EA50	83800-0EA42		
			83800-48V71	83800-0EA52		
			83800-0EA31			
83800-0EA41						
83800-0EA51						

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### Parts Information (continued)

WMI	DRIVETRAIN	TRIM	PART NUMBER		PART NAME	QTY
2T2	4WD 2WD	F Sport	83800-48W60 83800-48W70 83800-48W61 83800-48W71	83800-48W62 83800-48W72	Computer, Meter ECU	-
	4WD		83800-48U10 83800-48U20	83800-48U11 83800-48U21		
-	-	-	00451-00001-LBL		Authorized Modifications Label	1

**NOTE**

- The meter combination unit should NOT be replaced as part of the Repair Procedure.
- Authorized Modification 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 12.20.024 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

**NOTE**

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

\* Essential SST.

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### Calibration Information

WMI	DRIVETRAIN	TRIM	ECU TYPE	CALIBRATION ID	
				PREVIOUS	NEW
2T2 JTJ	4WD 2WD	Non-F Sport	Main	838000E71004 838000E71005 838000E71006	<a href="#">838000E71107</a>
			Sub1	8380048U7005	<a href="#">8380048U7009</a>
			Sub2	8380048S8005 8380048S8008	<a href="#">8380048S8009</a>
			Main	8380048Q2001 8380048Q2102	<a href="#">8380048Q2203</a>
2T2	4WD	F Sport	Main	8380048V8001 8380048V8102	<a href="#">8380048V8203</a>
			Main	8380048T3003 8380048T3005 8380048T3006	<a href="#">8380048T3107</a>

### Repair Procedure

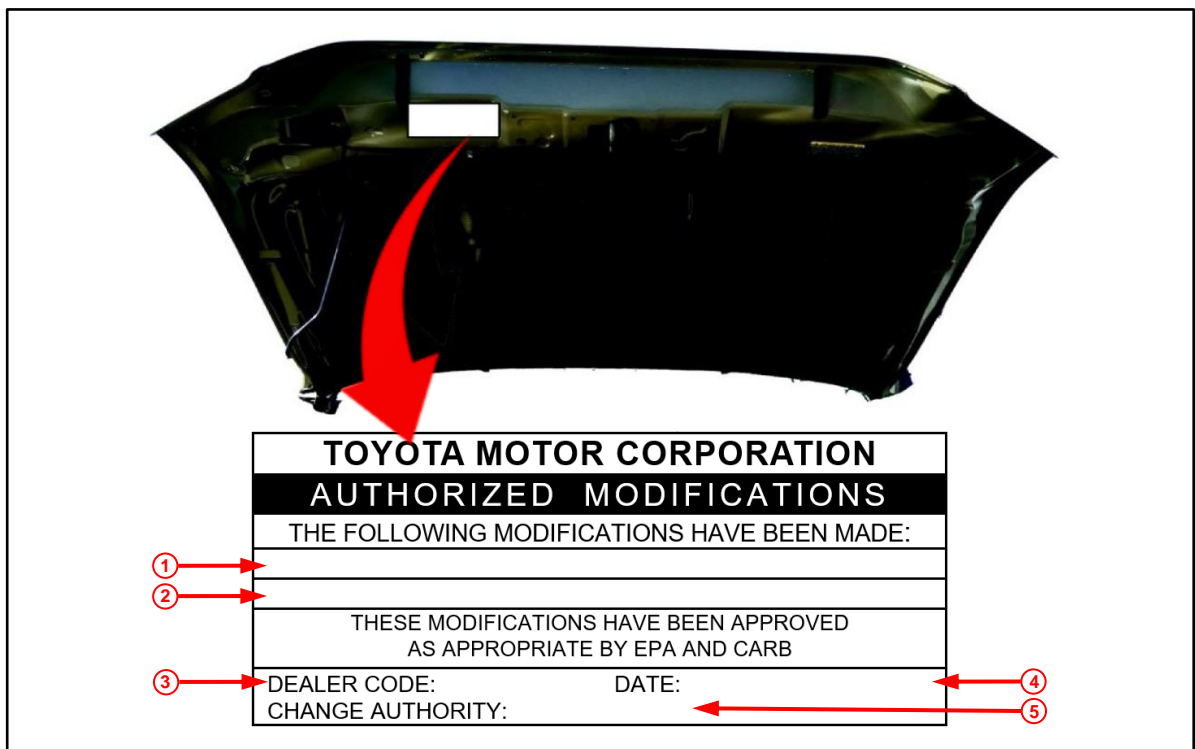
- Confirm the condition exists.  
 Does the "Braking Power Low" warning message appear before or during startup and disappear once the vehicle is started?
  - YES** — Continue to step 2.
  - NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- Are there ANY DTCs stored that may cause the above condition?
  - YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
  - NO** — Continue to step 3.
- Confirm whether the stop light switch is within specification.  
 Refer to TIS, applicable model and model year Repair Manual:
  - 2016 – 2017 RX 350:  
*Vehicle Exterior – Lighting (ext) – ["Lighting \(Ext\): Stop Light Switch: Installation"](#)*
 Is the stop light switch within specification?
  - YES** — Continue to step 4.
  - NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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### Repair Procedure (continued)

4. Check for the Authorized Modifications Label affixed to the vehicle in the location shown below. Confirm if the meter control unit calibration has been updated. Is the calibration ID listed the latest meter control unit calibration?
  - **YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
  - **NO** — Continue to step 5.

**Figure 2. Location of Authorized Modifications Label on 2016 – 2017 RX 350**



<b>1</b>	<b>Replacement Meter Control Unit Part Number (e.g., 83800-48U71)</b>
<b>2</b>	<b>New Calibration ID (e.g., 838000E71107)</b>
<b>3</b>	<b>Dealer Code</b>

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

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### Repair Procedure (continued)

5. Flash reprogram the meter control unit.

**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 at *TIS – Diagnostics – Tools & Equipment – Battery Diagnostics*.

Follow the procedures outlined in Service Bulletin [L-SB-0021-14](#), "Techstream ECU Flash Reprogramming Procedure," and flash the meter control unit with the NEW calibration file update.

**NOTE**

Certain options may become unavailable during the flash reprogramming. Perform a 12V battery reset on the vehicle **AFTER** the flash reprogramming.

6. Prepare and install the Authorized Modifications Label.
  - A. Using a permanent marker, enter the following information on the label:
    - Meter control unit part number [*Refer to the **Parts Information** section for the **NEW 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***]
  - 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.
7. After the flash reprogramming is complete, confirm that the "Braking Power Low" warning message does NOT appear when the engine is OFF. This can be verified by turning the ignition to "IG-ON" and pumping the brake pedal **AT LEAST** four times to remove the brake booster vacuum.
8. Start the engine, warm up the vehicle to normal operating temperature, and test drive it to confirm proper vehicle operation.