

8AR Rocking (Forward and Back) Sensation on Acceleration and/or Buzzing Noise

Service Category Engine/Hybrid System

Section Emission Control

Market USA

Lexus Supports
ASE Certification 

Applicability

| YEAR(S) | MODEL(S) | ADDITIONAL INFORMATION |
|-------------|-------------------------------|------------------------|
| 2016 - 2017 | GS200T, IS200T, RC200T | |
| 2018 - 2019 | GS300, IS300, NX300, RC300 | |
| 2015 - 2017 | NX200T | |

REVISION NOTICE

November 12, 2018 Rev1:

- **Applicability has been updated to include 2018 – 2019 model year GS300, IS300, NX300, and RC300 vehicles.**
- **The entire bulletin has been updated.**

Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2015 – 2019 model year Lexus vehicles equipped with the 8AR engine may exhibit a rocking (forward and back) sensation that can be felt between 30 and 70 mph under steady/high throttle input and/or a buzzing noise from the engine compartment. 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 VINs shown below.

| MODEL | PLANT | ENGINE | PRODUCTION CHANGE EFFECTIVE VIN |
|-------|-----------|--------|---------------------------------|
| GS | Motomachi | 8AR | JTHBA1BL#JA008246 |
| IS | Tahara | | JTHBA1D2#J5083372 |
| RC | | | JTHHA5BC#J5008762 |
| NX | Kyushu | | JTJYARBZ#K2129000 |

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Warranty Information

| OP CODE | MODEL | DESCRIPTION | TIME | OFFP | T1 | T2 |
|---------|------------|---|------|-------------|----|----|
| EG1654 | GS, IS, RC | R & R Vacuum Regulating Valve and No. 1 Vacuum Transmitting Hose Assembly | 0.5 | 25760-36050 | 87 | 55 |
| | NX | | 0.9 | 25760-36040 | | |

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 | PART NUMBER | | PART NAME | QTY |
|------------|-------------|-------------|---------------------------------------|-----|
| | PREVIOUS | NEW | | |
| ALL | 25819-0W010 | | Valve, Vacuum Regulating | 1 |
| NX | 25760-36040 | 25760-36041 | Hose Assy, Vacuum Transmitting, No. 1 | 1 |
| GS, IS, RC | 25760-36050 | 25760-36051 | Hose Assy, Vacuum Transmitting, No. 1 | 1 |

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Repair Procedure

1. Confirm the condition exists.

Is AT LEAST one of the following conditions present?

- A buzzing noise is present from the Vacuum Regulating Valve (VRV).

HINT

Unplug the VRV and observe if the noise is no longer present.

- A forward and back rocking sensation can be felt between 30 and 70 mph under steady moderate/high throttle input.

HINT

The turbo boost gauge equipped ONLY on F-Sport vehicles MAY fluctuate erratically during the surge condition.

- **YES** — Continue to step 2.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

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Repair Procedure (continued)

2. Replace the vacuum regulating valve.

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

- 2015 – 2017 NX200t:
Engine/Hybrid System – Emission Control – “8AR-FTS Emission Control: Vacuum Regulating Valve: [Removal](#) / [Installation](#)”
- 2016 – 2017 GS200t:
Engine/Hybrid System – Emission Control – “8AR-FTS Emission Control: Vacuum Regulating Valve: [Removal](#) / [Installation](#)”
- 2016 – 2017 IS200t:
Engine/Hybrid System – Emission Control – “8AR-FTS Emission Control: Vacuum Regulating Valve: [Removal](#) / [Installation](#)”
- 2016 – 2017 RC200t:
Engine/Hybrid System – Emission Control – “8AR-FTS Emission Control: Vacuum Regulating Valve: [Removal](#) / [Installation](#)”
- 2018 – 2019 GS300:
Engine/Hybrid System – Emission Control – “8AR-FTS Emission Control: Vacuum Regulating Valve: [Removal](#) / [Installation](#)”
- 2018 – 2019 IS300:
Engine/Hybrid System – Emission Control – “8AR-FTS Emission Control: Vacuum Regulating Valve: [Removal](#) / [Installation](#)”
- 2018 – 2019 NX300:
Engine/Hybrid System – Emission Control – “8AR-FTS Emission Control: Vacuum Regulating Valve: [Removal](#) / [Installation](#)”
- 2018 – 2019 RC300:
Engine/Hybrid System – Emission Control – “8AR-FTS Emission Control: Vacuum Regulating Valve: [Removal](#) / [Installation](#)”

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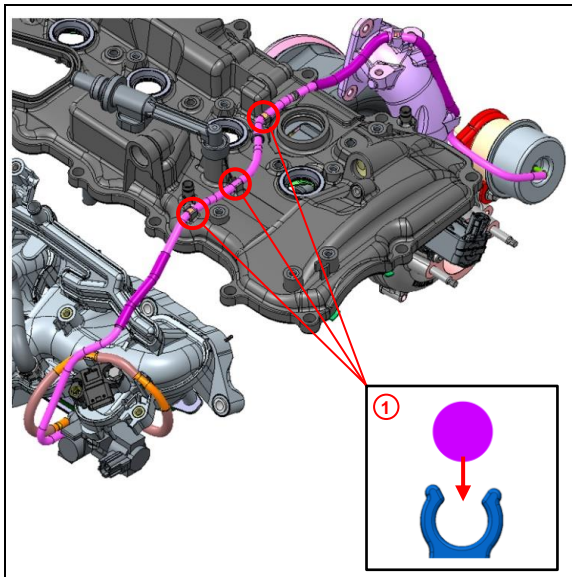
Repair Procedure (continued)

3. Replace the No. 1 vacuum transmitting hose with the NEW No. 1 vacuum transmitting hose. Follow the routing as shown in Figure 2.

NOTE

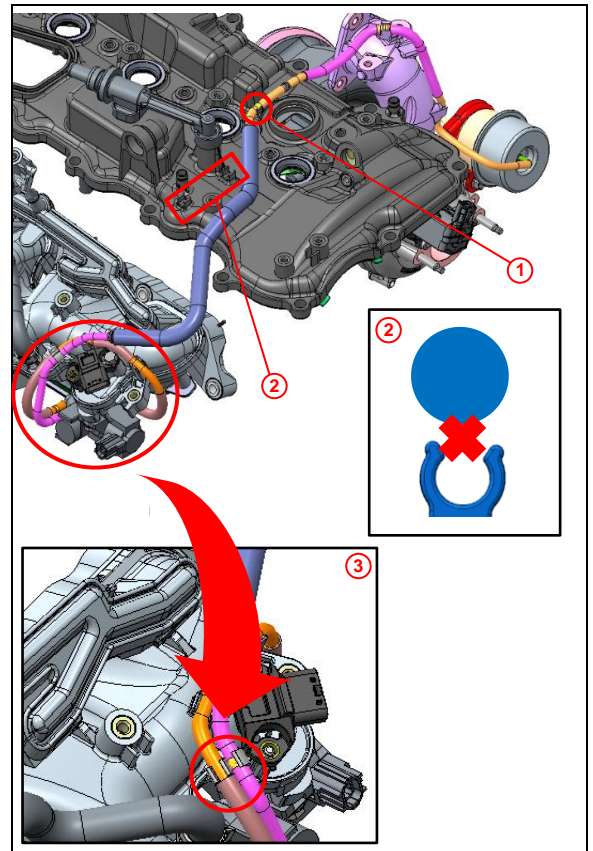
Figure 1 shows the routing of the previous No. 1 vacuum transmitting hose.

Figure 1. Previous No. 1 Vacuum Transmitting Hose Routing



1 No. 1 Vacuum Transmitting Hose Clamped to Cylinder Head Cover at Three Portions

Figure 2. New No. 1 Vacuum Transmitting Hose Routing



| | |
|----------|--|
| 1 | No. 1 Vacuum Transmitting Hose Clamped to Cylinder Head Cover at One Portion |
| 2 | Cylinder Head Covers Incompatible With New No. 1 Vacuum Transmitting Hose |
| 3 | Additional Clamp Point (No. 1 Vacuum Transmitting Hose is Clamped to Other Hose by Using Hose Clamp) |

4. Confirm the condition is no longer present.