

Knocking Noise From Vacuum Pump

Service Category Engine/Hybrid System

Section Engine Mechanical

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2018	Camry	VDS(s): B11FK, B11HK, B61HK, BF1FK, BZ1HK Engine(s): 2GR
2017	Highlander	VDS(s): BZ3FH, BZRFH, DZ3FH, DZRFH, JZRFH, KZRFH, YZ3FH, YZRFH, ZZ3FH, ZZRFH
2017	Sienna	VDS(s): DZ3DC, JZ3DC, KZ3DC, MZ3DC, XZ3DC, YZ3DC, ZZ3DC
2016 - 2017	Tacoma	VDS(s): AZ5CN, BZ5DN, CZ5AN, DZ5BN, EZ5CN, FZ5DN, GZ5AN, HZ5BN, RZ5CN, SZ5AN

Introduction

Some 2016 – 2017 model year Tacoma, 2017 model year Sienna and Highlander, and 2018 model year Camry vehicles equipped with a 2GR-FKS engine may exhibit a knocking noise from the vacuum pump. Follow the Repair Procedure below to address this condition.

Warranty Information

OP CODE	MODEL	DESCRIPTION	TIME	OFF	T1	T2
BR1702	Camry, Sienna, Highlander	R & R Vacuum Pump	2.3	29300-0P010 29300-0P011	91	99
BR1703	Tacoma		0.5	29300-0P020 29300-0P021		

APPLICABLE WARRANTY

- This repair is covered under the Comprehensive Warranty. This warranty is in effect for 36 months or 36,000 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

PART NUMBER		MODEL	PART NAME	QTY
PREVIOUS	NEW			
29300-0P010 29300-0P011	29300-0P030	Camry, Sienna, Highlander	Pump Assy, Vacuum	1
29300-0P020 29300-0P021	29300-0P040	Tacoma		1

Repair Procedure

- If the vehicle is a Tacoma, is it equipped with crawl control?
 - YES** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
 - NO** — Continue to step 2.

NOTE

This step **ONLY** applies to Tacoma vehicles. For all other applicable models, continue to step 2.

Figure 1. Overhead Console in Vehicle With Crawl Control



1 Crawl Control – This Service Bulletin is Not Applicable

Figure 2. Overhead Console in Vehicle Without Crawl Control



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Repair Procedure (Continued)

2. Confirm the condition exists.

Is a knocking noise coming from the vacuum pump with the engine idling?

Refer to the audio link below for an example of the knocking noise condition:

[Knocking Noise Example](#)

- **YES** — Continue to step 3.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

3. Remove the vacuum pump assembly.

Refer to the Technical Information System (TIS), applicable model and model year Repair Manual:

- 2016 – 2017 Tacoma:
Brake – Brake System – [“Brake System \(Other\): Vacuum Pump: Removal”](#)
- 2017 Highlander:
Brake – Brake System – [“Brake System \(Other\): Vacuum Pump: Removal”](#)
- 2017 Sienna:
Brake – Brake System – [“Brake System \(Other\): Vacuum Pump: Removal”](#)
- 2018 Camry:
Brake – Brake System – [“Brake System \(Other\): Vacuum Pump \(for 2GR-FKS\): Removal”](#)

4. Install a NEW vacuum pump assembly.

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

- 2016 – 2017 Tacoma:
Brake – Brake System – [“Brake System \(Other\): Vacuum Pump: Installation”](#)
- 2017 Highlander:
Brake – Brake System – [“Brake System \(Other\): Vacuum Pump: Installation”](#)
- 2017 Sienna:
Brake – Brake System – [“Brake System \(Other\): Vacuum Pump: Installation”](#)
- 2018 Camry:
Brake – Brake System – [“Brake System \(Other\): Vacuum Pump \(for 2GR-FKS\): Installation”](#)

5. Confirm that the knocking noise is reduced.