

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 - 2019	Camry	VDS(s): BZ1HK
2017 - 2019	Highlander	VDS(s): BZ3FH, BZRFH, DZ3FH, DZRFH, JZRFH, KZRFH, YZ3FH, YZRFH, ZZ3FH, ZZRFH
2017 - 2019	Sienna	VDS(s): DZ3DC, JZ3DC, KZ3DC, MZ3DC, XZ3DC, YZ3DC, ZZ3DC
2016 - 2019	Tacoma	VDS(s): AZ5CN, BZ5DN, CZ5AN, DZ5BN, EZ5CN, FZ5DN, GZ5AN, HZ5BN, RZ5CN, SZ5AN

REVISION NOTICE

November 14, 2019 Rev2:

- The Applicability has been updated to include 2019 model year Toyota vehicles.
- The Introduction and Repair Procedure sections have been updated.

August 15, 2018 Rev1:

- The Applicability has been updated to include 2018 model year Highlander, Sienna, and Tacoma vehicles.
- The Introduction and Warranty Information sections have been updated.

Any previous printed versions of this bulletin should be discarded.

Introduction

Some 2018 – 2019 model year 2GR-FKS-equipped Camry, 2017 – 2019 model year Highlander and Sienna, and 2016 – 2019 model year Tacoma vehicles may exhibit a knocking noise from the vacuum pump with the engine idling. Follow the Repair Procedure in this bulletin to address this condition.

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Warranty Information

OP CODE	MODEL	DESCRIPTION	TIME	OFF	T1	T2
BR1702	Camry	R & R Vacuum Pump	1.5	29300-0P010 29300-0P011	91	99
	Highlander		2.1			
	Sienna		1.4			
BR1703	Tacoma		1.5	29300-0P020 29300-0P021		

APPLICABLE WARRANTY

- This repair is covered under the Toyota Basic 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.

Parts Information

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

Knocking Noise From Vacuum Pump

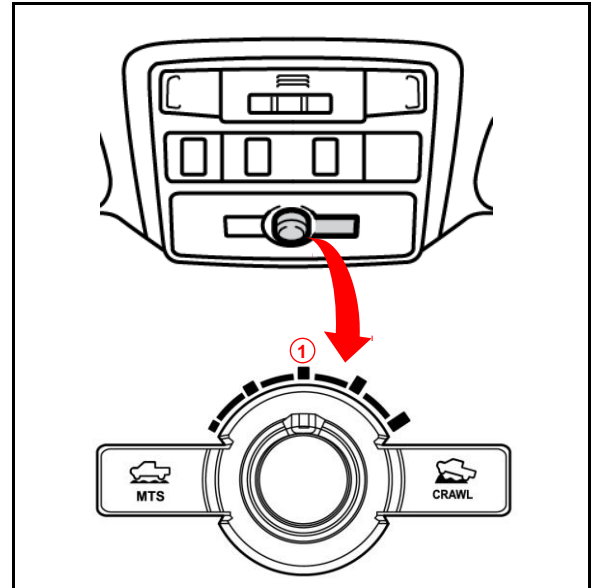
Repair Procedure

1. 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

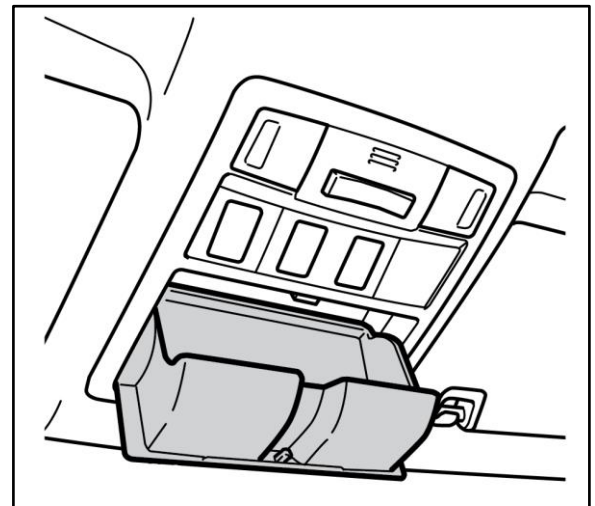
This step ONLY applies to Tacoma vehicles. For all other applicable models, continue to step 2.

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



Knocking Noise From Vacuum Pump

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 TIS, applicable model and model year Repair Manual:

- 2016 – 2019 Tacoma:
Brake – Brake System – [“Brake: Vacuum Pump: Removal”](#)
- 2017 – 2019 Highlander:
Brake – Brake System – [“Brake System \(Other\): Vacuum Pump: Removal”](#)
- 2017 – 2019 Sienna:
Brake – Brake System – [“Brake System \(Other\): Vacuum Pump: Removal”](#)
- 2018 – 2019 Camry:
Brake – Brake System – [“Brake System \(Other\): Vacuum Pump \(for 2GR-FKS\): Removal”](#)

4. Install the NEW vacuum pump assembly.

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

- 2016 – 2019 Tacoma:
Brake – Brake System – [“Brake: Vacuum Pump: Installation”](#)
- 2017 – 2019 Highlander:
Brake – Brake System – [“Brake System \(Other\): Vacuum Pump: Installation”](#)
- 2017 – 2019 Sienna:
Brake – Brake System – [“Brake System \(Other\): Vacuum Pump: Installation”](#)
- 2018 – 2019 Camry:
Brake – Brake System – [“Brake System \(Other\): Vacuum Pump \(for 2GR-FKS\): Installation”](#)

5. Confirm that the knocking noise is reduced.