Knocking Noise From Vacuum Pump

Service Category: Engine/Hybrid System
Section: Engine Mechanical
Market: USA

Applicability

<table>
<thead>
<tr>
<th>YEAR(S)</th>
<th>MODEL(S)</th>
<th>ADDITIONAL INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>Camry</td>
<td>VDS(s): BZ1HK</td>
</tr>
<tr>
<td>2017 - 2018</td>
<td>Highlander</td>
<td>VDS(s): BZ3FH, BZRFH, DZ3FH, DZRFH, JZRFH, KZRFH, YZ3FH, YZRFH, ZZ3FH, ZZRFH</td>
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<tr>
<td>2017 - 2018</td>
<td>Sienna</td>
<td>VDS(s): DZ3DC, JZ3DC, KZ3DC, MZ3DC, XZ3DC, YZ3DC, ZZ3DC</td>
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<tr>
<td>2016 - 2018</td>
<td>Tacoma</td>
<td>VDS(s): AZ5CN, BZ5DN, C5AN, DZ5BN, EZ5CN, FZ5DN, GZ5AN, HZ5BN, RZ5CN, SZ5AN</td>
</tr>
</tbody>
</table>

REVISION NOTICE

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 2GR-FKS-equipped Camry (2018 model year), Highlander, Sienna (both 2017 – 2018 model year), and Tacoma (2016 – 2018 model year) vehicles may exhibit a knocking noise from the vacuum pump. Follow the Repair Procedure in this bulletin to address this condition.
Knocking Noise From Vacuum Pump

Warranty Information

<table>
<thead>
<tr>
<th>OP CODE</th>
<th>MODEL</th>
<th>DESCRIPTION</th>
<th>TIME</th>
<th>OFP</th>
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<th>T2</th>
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<tbody>
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<td>Camry</td>
<td>R &amp; R Vacuum Pump</td>
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<td>99</td>
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<td>Highlander</td>
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<td>29300-0P011</td>
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<td>Sienna</td>
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<td></td>
<td>29300-0P021</td>
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</tbody>
</table>

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.

Parts Information

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>MODEL</th>
<th>PART NAME</th>
<th>QTY</th>
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<tbody>
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<td>29300-0P010</td>
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<td>29300-0P040</td>
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</table>
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.

   ![Figure 1. Overhead Console in Vehicle With Crawl Control](image1)

   ![Figure 2. Overhead Console in Vehicle Without Crawl Control](image2)

   **NOTE**

   This step ONLY applies to Tacoma vehicles. For all other applicable models, continue to step 2.
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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 TIS, applicable model and model year Repair Manual:
   • 2016 – 2018 Tacoma:
   • 2017 – 2018 Highlander:
     Brake – Brake System – “Brake System (Other): Vacuum Pump: Removal”
   • 2017 – 2018 Sienna:
     Brake – Brake System – “Brake System (Other): Vacuum Pump: Removal”
   • 2018 Camry:

4. Install the NEW vacuum pump assembly.
   Refer to TIS, applicable model and model year Repair Manual:
   • 2016 – 2018 Tacoma:
   • 2017 – 2018 Highlander:
     Brake – Brake System – “Brake System (Other): Vacuum Pump: Installation”
   • 2017 – 2018 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.