

2GR-FKS Engine Oil Leak From Cam Sensor Bolt Hole(s)

Service Category Engine/Hybrid System

Section Lubrication

Market USA

Toyota Supports
 ASE Certification 

Applicability

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

Introduction

Some 2016 – 2018 model year Tacoma, 2017 – 2018 model year Sienna, Highlander, and 2018 model year Camry vehicles equipped with a 2GR-FKS engine may exhibit an engine oil leak from the cam sensor bolt hole(s). 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 Engine Numbers shown below.

ENGINE	MDOEL	PRODUCTION CHANGE EFFECTIVE ENGINE NUMBER
2GR-FKS	Camry	2GR 7956809 All "8" Serial Engines are Post-countermeasure
	Sienna	
	Highlander	All "F" Serial Engines are Post-countermeasure
	Tacoma	2GR M352598

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Warranty Information

MODEL	OP CODE	DESCRIPTION	TIME	OFF	T1	T2
Tacoma	EG1803	R & R Camshaft Housing	15.8	11104-0P020 11103-0P020	65	48
	COMBO A	Opposite Side	1.7			
Camry, Highlander, Sienna	EG1804	R & R Camshaft Housing	18.3			
	COMBO A	Opposite Side	0.3			

APPLICABLE WARRANTY

- This repair is covered under the Toyota Powertrain Warranty. This warranty is in effect for 60 months or 60,000 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		PART NAME	QTY	
PREVIOUS	NEW		LH	RH
90105-A0103	90105-06323	Bolt, Flange	2	2
11103-0P020	11103-0P022	Housing Sub-Assy, Camshaft, RH	–	1
	11104-0P020	Housing Sub-Assy, Camshaft, LH	1	–
	11213-0P030	Gasket, Cylinder Head Cover, RH	–	1
	11214-0P010	Gasket, Cylinder Head Cover, LH	1	–
	11159-0P040	Gasket, Camshaft Bearing Cap Oil Hole	1	1
	15193-0P010	Gasket, Oil Pump	1	
	11213-31080	Gasket, Cylinder Head	2	2
	11193-0P010	Gasket, Spark Plug Tube	3	3

NOTE

Order parts as needed. (ONLY one cam housing is required unless the vehicle is leaking from BOTH cam housings.)

2GR-FKS Engine Oil Leak From Cam Sensor Bolt Hole(s)

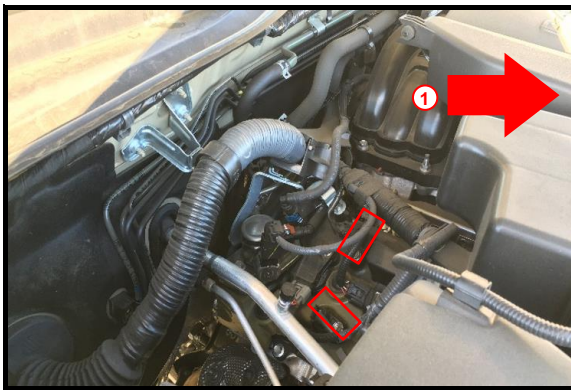
Repair Procedure

1. Confirm the condition exists.

Does the vehicle exhibit an oil leak from one or more cam sensor bolt holes?
(Refer to Figures 1 – 4.)

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

Figure 1. Cam Sensor Locations



1	Front of Vehicle
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Figure 2. Cam Sensor Locations (Close Up)

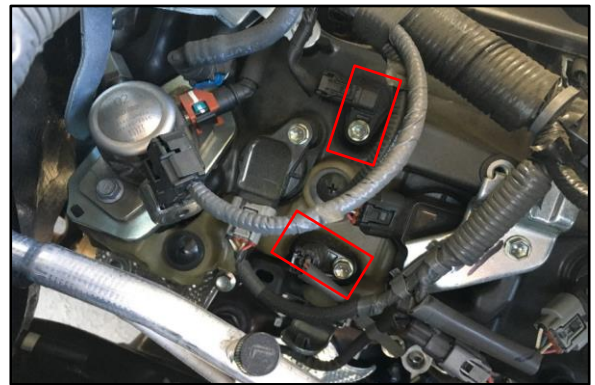


Figure 3. Engine Oil in Cam Sensor Bolt Hole (Bolt Removed)



Figure 4. Cam Sensor Bolt Hole (Valve Cover Removed)



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Repair Procedure (continued)

2. Remove the affected cam housing.

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

- 2016 – 2018 Tacoma:
Engine/Hybrid System – Engine Mechanical –
[“2GR-FKS Engine Mechanical: Cylinder Head Gasket: Removal”](#)
- 2017 – 2018 Sienna:
Engine/Hybrid System – Engine Mechanical –
[“2GR-FKS Engine Mechanical: Cylinder Head Gasket: Removal”](#)
- 2017 – 2018 Highlander:
Engine/Hybrid System – Engine Mechanical –
[“2GR-FKS Engine Mechanical: Cylinder Head Gasket: Removal”](#)
- 2018 Camry:
Engine/Hybrid System – Engine Mechanical –
[“2GR-FKS Engine Mechanical: Cylinder Head Gasket: Removal”](#)

3. Install the NEW cam housing.

NOTE

Replace ALL cam sensor bolts on the NEW cam housing with NEW bolts.

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

- 2016 – 2018 Tacoma:
Engine/Hybrid System – Engine Mechanical –
[“2GR-FKS Engine Mechanical: Cylinder Head Gasket: Installation”](#)
- 2017 – 2018 Sienna:
Engine/Hybrid System – Engine Mechanical –
[“2GR-FKS Engine Mechanical: Cylinder Head Gasket: Installation”](#)
- 2017 – 2018 Highlander:
Engine/Hybrid System – Engine Mechanical –
[“2GR-FKS Engine Mechanical: Cylinder Head Gasket: Installation”](#)
- 2018 Camry:
Engine/Hybrid System – Engine Mechanical –
[“2GR-FKS Engine Mechanical: Cylinder Head Gasket: Installation”](#)

4. Confirm that the oil leak no longer exists.