

S-SB-0023-12

September 26, 2012

Abnormal Chirp or Squeak Noise from High Pressure Fuel Pump

Service Category Engine/Hybrid System

Section Fuel System

Market USA

Scion Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2013	FR-S	

Introduction

Some vehicles may exhibit a high pitch chirp or squeak noise from the High Pressure Fuel Pump Assembly when the engine is fully warmed up and idling. Follow the procedure in this bulletin to address this condition.

Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VIN shown below.

MODEL	PRODUCTION CHANGE EFFECTIVE VIN
Scion FR-S	JF1ZNAA1#D#709026

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG1214	R & R High Pressure Fuel Pump Assembly	2.5	SU003-00328	91	57

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.

Abnormal Chirp or Squeak Noise from High Pressure Fuel Pump

Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
SU003-00328	Same	Pump Assembly, Fuel	1
SU003-00342	Same	Pipe, Fuel Delivery, No. 2	1
SU003-00347	Same	Gasket	1
SU003-00290	Same	Gasket, Intake Manifold to Head, No. 1	2
SU003-00316	Same	Gasket, Throttle Body	1

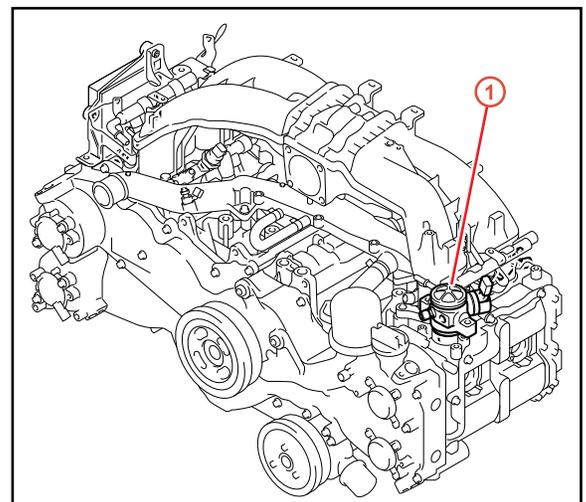
Repair Procedure

1. Road test the vehicle for at least 10 minutes so that the engine is fully warmed up.
2. While the engine is idling, listen for abnormal noise from the High Pressure Fuel Pump Assembly.

NOTE

- A mechanical ticking noise from the High Pressure Fuel Pump Assembly is normal during Direct Injection system operation.
- This bulletin should only be performed if an abnormal high pitch chirp or squeak noise from the High Pressure Fuel Pump is verified.

Figure 1.



1	Fuel Pump Assembly (for High Pressure)
----------	---

3. Verify that the condition matches the example video below.
[Chirp Noise Example](#)

Does the vehicle have an abnormal chirp or squeak sound from the High Pressure Fuel Pump Assembly?

- **YES** — Continue to step 4.
- **NO** — This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

Abnormal Chirp or Squeak Noise from High Pressure Fuel Pump

Repair Procedure (Continued)

4. Replace the High Pressure Fuel Pump Assembly.

Refer to the Technical Information System (TIS), 2013 model year FR-S Repair Manual:

- *Engine/Hybrid System – Fuel System – “FA20 Fuel: Fuel Pump (for High Pressure): [Removal](#) / [Installation](#)”*

5. Confirm repair.