

OBSOLETE

(Please see superceding TSBs listed in TSB Revision/Obsolete Notice below)



Technical Service BULLETIN

September 28, 2005

Title:

“NO START” IN SUB-FREEZING AMBIENT AIR TEMPERATURES

Models:

Applicable 4Runner, Highlander, Sequoia, Sienna, Tacoma, & Tundra

REVISED

ENGINE
EG043-05

TSB REVISION/OBSOLETE NOTICE:

- May 9, 2006: This TSB no longer applies to 2004 – 2005 model year Highlander and Sienna, and 2005 model year Tacoma vehicles. For Highlander see TSB No. EG031–06, for Sienna see TSB No. EG032–06, and, for Tacoma see TSB No. EG033–06. THIS TSB IS NOW OBSOLETE.
- May 1, 2006: This TSB no longer applies to 2003 – 2005 model year 4Runner, and 2005 model year Sequoia and Tundra vehicles. For 4Runner see TSB No. EG028–06 or EG029–06, for Sequoia and Tundra see TSB No. EG030–06.

Previous versions of this TSB should be discarded.

Introduction Some customers may experience a “no start” condition and/or M.I.L. “ON” with DTCs P0300, P0171, and P0174 after the vehicle has cold soaked in sub-freezing ambient air temperatures. To correct this condition a new fuel pump sub-tank assembly is now available. Follow the repair procedure to replace the fuel pump sub-tank assembly.

- Applicable Vehicles**
- **2003 – 2005** model year **4Runner** vehicles produced **BEFORE** the Production Change Effective VINs shown in this TSB.
 - **2004 – 2005** model year **Highlander** and **Sienna** vehicles produced **BEFORE** the Production Change Effective VINs shown in this TSB.
 - **2005** model year **Sequoia, Tacoma, and Tundra** vehicles produced **BEFORE** the Production Change Effective VINs shown in this TSB.

Warranty Information

OP CODE	DESCRIPTION	MODEL	ENGINE	TIME	OFF	T1	T2
234021	R & R Fuel Suction Tube No. 1	4Runner	1GR-FE	1.5	77174-35020	01	99
			2UZ-FE	1.3	77131-26112		
	R & R Fuel Sub-Tank No. 1	Sequoia		0.6	77131-04050		
			Tundra				
		Tacoma	2TR-FE	1.1	77131-04050		
			1GR-FE	1.2			
	R & R Fuel Suction Tube No. 1	Highlander		0.8	77174-35020 77174-35030		
		Sienna		0.8	77174-08010		

Applicable Warranty*:

This repair is covered under the Toyota Federal Emission Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date. For California specification vehicles sold, registered, and operated in California, Maine, Massachusetts, and Vermont, this repair is covered under the California Emission Warranty, which is 36 months or 50,000 miles, whichever occurs first, from the vehicle's in-service date.

* Warranty application is limited to correction of a problem based upon a customer's specific complaint.



**Production
Change
Information**

MODEL	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
4Runner	Hino	1GR-FE 2WD	JTEZU1#R#58035763
		1GR-FE 4WD	JTEBU1#R#58046787
		2UZ-FE 2WD	JTEZT1#R#58007019
		2UZ-FE 4WD	JTEBT1#R#58024271
	Tahara	1GR-FE 2WD	JTEZU1#R#50057776
		1GR-FE 4WD	JTEBU1#R#50069780
		2UZ-FE 2WD	JTEZT1#R#50021689
		2UZ-FE 4WD	JTEBT1#R#50050160
Highlander	TMK	2AZ-FE 2WD	JTEGD21A#50126391
		2AZ-FE 4WD	JTE#D21A#50038807
		3MZ-FE 2WD	JTEGP21A#50081736
		3MZ-FE 4WD	JTE#P21A#50123156
Sequoia	TMMI	2UZ-FE 2WD	5TDZT3#A#5S261474
		2UZ-FE 4WD	5TDBT4#A#5S254342
Sienna	TMMI	3MZ-FE FWD	5TDZA2#C#5S330356
		3MZ-FE AWD	5TDBA2#C#5S046365
Tacoma	NUMMI	2TR-FE/1GR-FE 2WD and 4WD	5TE###42N35Z109433
	TMMBC		3TM###2N45M004884
Tundra	TMMI	1GR-FE 2WD	5TBJU321#5S454226
		2UZ-FE 2WD	5TBRT3#1#5S470388
		2UZ-FE 4WD	5TBBT4#1#5S471087
		2UZ-FE D-CAB 2WD	5TBET4#1#5S492070
		2UZ-FE D-CAB 4WD	5TBDT4#1#5S496162




Parts Information

MODEL	PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
4Runner 1GR-FE	77174-35020	77174-35021	Support, Fuel Suction, No. 1	1
	77144-35010	Same	Retainer, Fuel Pump Gauge	1
	77169-35010	Same	Gasket, Fuel Suction Tube Set	1
4Runner 2UZ-FE	N/A	77131-26112	Sub-Tank, Fuel No.1	1
	77144-35010	Same	Retainer, Fuel Pump Gauge	1
	77169-35010	Same	Gasket, Fuel Suction Tube Set	1
Highlander 2AZ-FE	77174-35020	77174-35021	Support, Fuel Suction, No. 1	1
Highlander 3MZ-FE	77174-35030	77174-0E011		
Highlander 2AZ-FE/ 3MZ-FE	77144-48020	Same	Retainer, Fuel Pump Gauge	1
	77169-48020	Same	Gasket, Fuel Suction Tube Set	1
Sequoia	77131-04050	77131-04051	Sub-Tank, Fuel No.1	1
	77144-08010	Same	Retainer, Fuel Pump Gauge	1
	77169-0C010	Same	Gasket, Fuel Suction Tube Set	1
Sienna	77174-08010	77174-08011	Support, Fuel Suction, No. 1	1
	77144-08010	Same	Retainer, Fuel Pump Gauge	1
	77169-08010	Same	Gasket, Fuel Suction Tube Set	1
Tacoma 2TR-FE/ 1GR-FE	77131-04050	77131-04051	Sub-Tank, Fuel No.1	1
	77144-04010	Same	Retainer, Fuel Pump Gauge	1
	77169-02050	Same	Gasket, Fuel Suction Tube Set	1
Tundra 1GR-FE/ 2UZ-FE	77131-04050	77131-04051	Sub-Tank, Fuel No.1	1
	77144-08010	Same	Retainer, Fuel Pump Gauge	1
	77169-0C010	Same	Gasket, Fuel Suction Tube Set	1

Required Tools & Material

TOOLS & MATERIAL	QUANTITY
Standard Metric Socket Set and Hand Tools	As Needed

Required SSTs

ITEM NO.	SPECIAL SERVICE TOOLS (SSTs)	PART NUMBER	QTY	DRW**
1	Toyota Diagnostic Tester Kit* NOTE: • All components from this kit/set are required • 12 Megabyte Diagnostic Tester Program Card (P/N 01002593-005) with version 13.0a Software (or later) is required 	TOY220036	1	9
2	CAN Interface Module Kit* NOTE: • All components from this kit/set are required 	01002744	1	9
4	Fuel Sender Lock Nut Wrench* NOTE: • All components from this kit/set are required 	09808-14020	1	4

* Essential SSTs.

** Refers to drawer number in SST Storage System.

NOTE:

Additional Diagnostic Tester Kits, CAN Interface Modules, Program Cards, or other SSTs may be ordered by calling SPX/OTC at 1-800-933-8335.

Repair Procedure

If the customer experiences a “no start” and/or M.I.L. “ON” condition with DTCs P0300, P0171, and P0174 after a cold soak in sub-freezing ambient air temperatures, refer to the following sections in the Toyota Technical Information System (TIS) to replace the fuel pump sub-tank assembly.

- 2003 – 2005 model year 4Runner Repair Manual:
 - Fuel: Fuel Tank Assy (1GR-FE) or (2UZ-FE): Removal & Installation And Disassembly & Reassembly
 - Fuel: Fuel Pump Assy (1GR-FE) or (2UZ-FE): Removal & Installation And Disassembly & Reassembly
- 2004 – 2005 model year Highlander Repair Manual:
 - Fuel: Fuel Pump Assy (2AZ-FE) or (3MZ-FE): Replacement
- 2005 model year Sequoia Repair Manual:
 - SFI: Fuel Pump: Removal / Disassembly / Reassembly / Installation
- 2004 – 2005 model year Sienna Repair Manual:
 - Fuel: Fuel Suction Tube Assy w / Pump & Gauge: Removal & Installation And Disassembly & Reassembly
- 2005 model year Tacoma Repair Manual:
 - Fuel: Fuel Pump Assy: Removal & Installation And Disassembly & Reassembly
- 2005 model year Tundra Repair Manual:
 - SFI (1GR-FE) or (2UZ-FE): Fuel Pump: Removal / Disassembly / Reassembly / Installation