



**Technical Service  
BULLETIN**

May 9, 2006

Title:

**“NO START” IN SUB-FREEZING  
AMBIENT AIR TEMPERATURES**

Models:

**'04 – '05 Highlander**

**ENGINE  
EG031-06**

**TSB UPDATE NOTICE:**

The information contained in this TSB supercedes TSB No. EG043-05. TSB No. EG043-05 is now obsolete and 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**
- **2004 – 2005** model year **Highlander** vehicles produced **BEFORE** the Production Change Effective VINs shown below.

**Production  
Change  
Information**

MODEL	ENGINE	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
Highlander	2AZ-FE	2WD	JTEGD21A#50126391
		4WD	JTE#D21A#50038807
	3MZ-FE	2WD	JTEGP21A#50081736
		4WD	JTE#P21A#50123156

**Warranty  
Information**

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
234021	R & R Fuel Suction Tube No. 1	0.8	77174-35020 77174-35030	01	99

**Applicable Warranty\*:**

This repair is covered under the Toyota Federal Emissions 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.






**Parts Information**

ENGINE	PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
2AZ-FE	77174-35020	77174-35021	Support, Fuel Suction, No. 1	1
3MZ-FE	77174-35030	77174-0E011		1
2AZ-FE/ 3MZ-FE	77144-48020	Same	Retainer, Fuel Pump Gauge	1
	77169-48020	Same	Gasket, Fuel Suction Tube Set	1

**Required Tools & Material**

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

**Required SSTs**

ITEM NO.	SPECIAL SERVICE TOOLS (SSTs)	PART NUMBER	QTY	DRW**
1	<b>Toyota Diagnostic Tester Kit*</b> NOTE: <ul style="list-style-type: none"> <li>All components from this kit/set are required</li> <li>12 Megabyte Diagnostic Tester Program Card (P/N 01002593-005) with version 13.3a Software (or later) is required</li> </ul> 	TOY220036	1	9
2	<b>CAN Interface Module Kit*</b> NOTE: <ul style="list-style-type: none"> <li>All components from this kit/set are required</li> </ul> 	01002744	1	9
3	<b>Fuel Sender Lock Nut Wrench*</b> NOTE: <ul style="list-style-type: none"> <li>All components from this kit/set are required</li> </ul> 	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, replace the fuel pump sub-tank assembly.

Refer to the Technical Information System (TIS), 2004 – 2005 model year Highlander Repair Manual: *Fuel: Fuel Pump Assy (2AZ-FE) or (3MZ-FE): Replacement*