TOYOTA

Technical Service BULLETIN

September 4, 2006

Title:

1ZZ-FE ENGINE "NO START" OR "EXTENDED CRANK" CONDITION

Models:

'05 – '06 Corolla & Matrix

ENGINE

EG053-06

TSB UPDATE NOTICE:

The information contained in this TSB supercedes TSB No. EG027–05 and EG016–06. TSB No. EG027–05 and EG016–06 are now obsolete and should be discarded.

Introduction

Some 2005 and 2006 model year Corolla and Matrix vehicles equipped with a 1ZZ–FE engine may exhibit a "no start" or "extended crank" condition. This may be caused by insufficient fuel pressure after the vehicle has been parked for a period of time. The fuel pump assembly manufacturing process has been improved to correct this condition.

Applicable Vehicles

- **2005 – 2006** model year **Corolla** and **Matrix (2WD)** vehicles equipped with the **1ZZ–FE engine.**

Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
77020–02180	Same	Fuel Suction w/Pump & Gauge Tube Assembly	1
77144–04010	Same	Fuel Pump Gauge Retainer	1
77169–02050	Same	Fuel Suction Tube Set Gasket	1

Required Tools & Material

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

Warranty Information

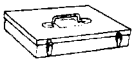
OP CODE	DESCRIPTION	TIME	OFP	T1	T2
234021	R & R Fuel Pump Assembly	0.5	77020–02180	01	57

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 correction of a problem based upon a customer's specific complaint.

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 13.4a 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
3	**Injection Measuring Tool Set***  NOTE: • All components from this kit/set are required.	09268–41047	1	22
4	**Fuel Sender Lock Nut Wrench*** NOTE: • All components from this kit/set are required.	09808–14020	1	4

* Essential SSTs.

** Drawer number in SST Storage System.

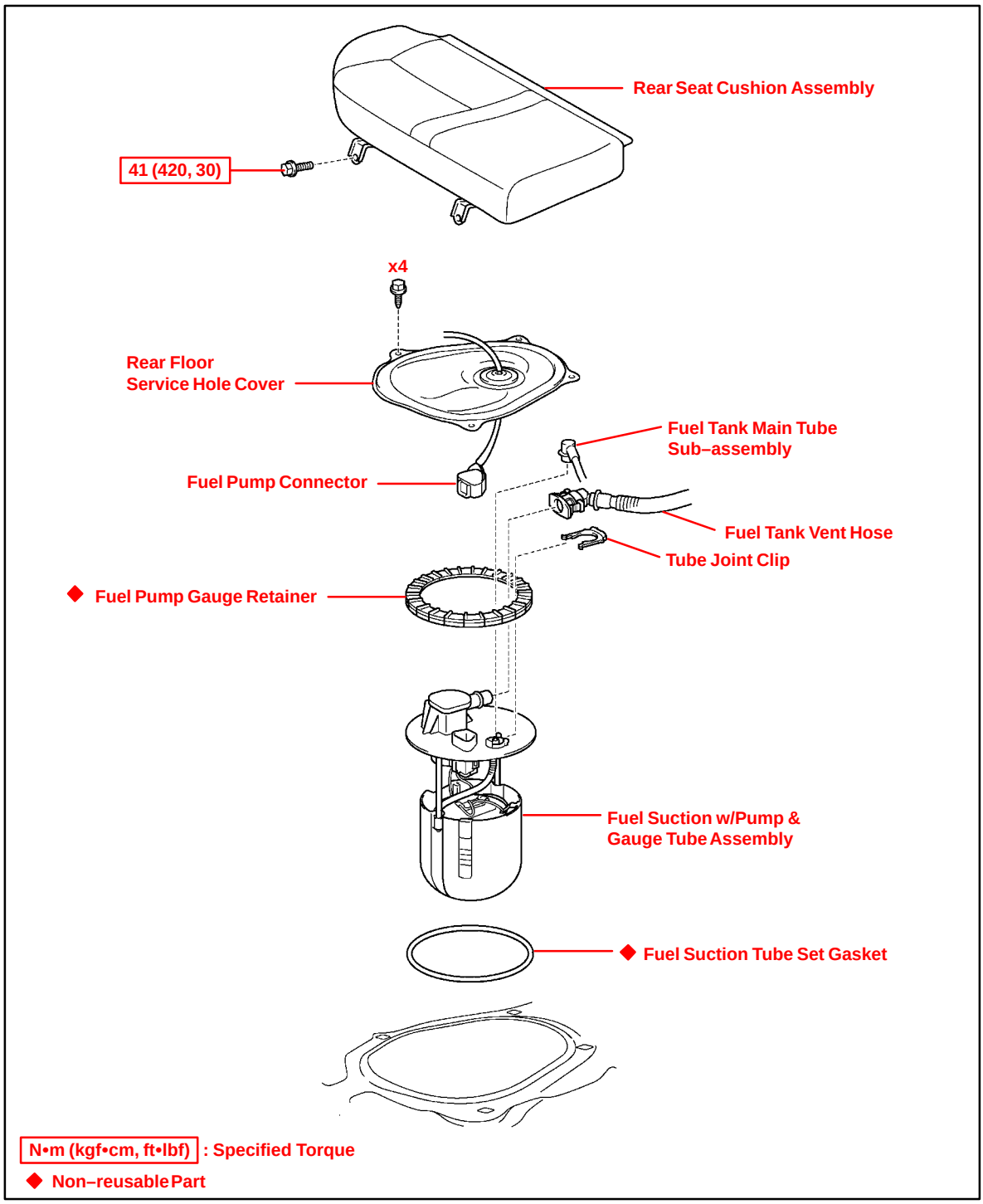
NOTE:

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

Inspection Procedure

If the vehicle is currently exhibiting a "no start" or "extended crank" condition:

- Refer to the following Repair Manual sections on the Technical Information System (TIS) to check fuel pump operation and fuel pressure:
  - 2005 or 2006 model year Corolla: *Fuel: Fuel System: On–Vehicle Inspection*
  - 2005 model year Matrix: *Fuel: Fuel System: On–Vehicle Inspection*
  - 2006 model year Matrix: *1ZZ–FE Fuel: Fuel System: On–Vehicle Inspection*
- If fuel pressure is NOT within specification, replace the Fuel Suction w/Pump & Gauge Tube Assembly.



Repair Procedure

1. Replace the Fuel Suction w/Pump & Gauge Tube Assembly. Refer to the following Repair Manual sections on TIS:
   - 2005 or 2006 model year Corolla: *Fuel: Fuel Suction w/Pump & Gauge Tube Assy: Removal & Installation and Disassembly & Reassembly*
   - 2005 model year Matrix: *Fuel: Fuel Suction w/Pump & Gauge Tube Assy (FF): Removal & Installation and Disassembly & Reassembly*
   - 2006 model year Matrix: *1ZZ–FE Fuel: Fuel Pump (for 2WD): Removal, Installation*
2. After replacement, confirm proper vehicle operation.

NOTE:

The Fuel Pump Gauge Retainer and Fuel Suction Tube Set Gasket MUST be replaced with the Fuel Suction w/Pump & Gauge Tube Assembly.