



Technical Service BULLETIN

November 22, 2004

Title: **M.I.L. "ON" DTC P0741**
Models: **'04 – '05 Corolla (1ZZ-FE)**



TRANSMISSION & CLUTCH
TC008-04

Introduction Some 2004 – 2005 model year Corolla vehicles may exhibit M.I.L. "ON" with DTC P0741 (Torque Converter Clutch Solenoid Performance). Production changes have occurred to correct this condition. Follow the repair procedure on pages 2 and 3 to address those vehicles that exhibit the condition.

NOTE:
The repair procedure must be followed closely to assure that only the affected part is replaced, as multiple possible causes are listed.

- Applicable Vehicles**
- **2004 – 2005** model year **Corolla** vehicles equipped with **1ZZ-FE engine** produced **BEFORE** the Production Change Effective VIN shown below.

Production Change Information

MODEL	PLANT	TRANSAXLE	PRODUCTION CHANGE EFFECTIVE VIN
Corolla	NUMMI	A245E	1NXBR3#E#5Z369427

Warranty Information



OP CODE	DESCRIPTION	TIME	MODEL YEAR	OFF	T1	T2
TC4003	R & R Speed Sensor	0.5	2004 – 2005	33403–29395	73	52
895011	R & R Engine Control Module	0.4	2004	89666–02300 89666–02330 89666–02331 89661–0Z090 89661–0Z091 89661–0Z092	8A	52
			2005	89661–02C00 89661–02C01 89661–02C10 89661–02C11 89661–02C30		
TC4004	R & R Transaxle Assembly	6.2	2004 – 2005	30500–12A00	8A	52
TC4005	R & R Torque Converter Clutch Assembly	6.5	2004 – 2005	32000–12380	22	57

Applicable Warranty*:
R & R of the Speed Sensor, Transaxle, and Torque Converter Clutch Assembly are 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. R & R of the Engine Control Module is covered under the Toyota Federal Emissions Warranty. This warranty is in effect for 96 months or 80,000 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 Tools & Material

TOOLS & MATERIAL	PART NUMBER	QUANTITY
Toyota Diagnostic Tester Kit* 	01001271	1
12 Megabyte Diagnostic Tester Program Card with version 12.0a Software (or later)* 	01002593-005	1

* Essential SSTs.

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

Parts Information

The following table provides the applicable part numbers and part identification methods.

VEHICLE SPEED SENSOR		MODEL YEAR	ECM	TRANSAXLE
NO. DRIVEN GEAR TEETH/ GEAR COLOR	*NO. DRIVE GEAR TEETH/ GEAR COLOR			
29/White P/N: 33403–29395	35/White (Black color is incorrect)	2004	89666–0230# 89661–0Z09#	30500–12A00
		2005	89661–02C0# 89661–02C1# 89661–02C3#	

* If this part is incorrect, check the transaxle P/N.

Repair Procedure

1 Using the Diagnostic Tester, retrieve stored Diagnostic Trouble Codes. Print or create a Techview file of the Freeze Frame data related to DTC P0741 for later reference.



2 Check the vehicle speed sensor driven gear for proper number of teeth.



Replace the speed sensor gear with the correct part number gear.

3 Check the Engine Control Module (ECM) part number for correct application to the affected vehicle. (Refer to Parts Information chart above.)



Replace the ECM with the correct part number part.

**Repair
Procedure**
(Continued)

4	Check the transaxle part number for correct application to the vehicle (printed on decal on transaxle case).
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Replace the transaxle with the correct part number part.

5	Check the transaxle for damage which may result in ATF leaks through the transaxle case.
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Replace the transaxle.

6	Using the Diagnostic Tester, monitor the data list and drive the vehicle under conditions similar to those displayed in the Freeze Frame data (vehicle speed, throttle position, etc.). Confirm proper shifts between lock-up clutch On and Off by watching for RPM to decrease or increase by 50 to 200 RPM.
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If RPM does not decrease or increase, perform diagnosis by referring to the Technical Information System (TIS), 2004 – 2005 model year Corolla Repair Manual: *Diagnostics: Electronic Controlled Automatic Transaxle P0741*, to identify the cause of the lock-up clutch malfunction (valve body valves, torque converter clutch solenoid, etc.).