



# Technical Service BULLETIN

November 8, 2005

Title:

## M.I.L. "ON" DTC P2742

Models:

'04 4Runner (V8), '04 – '05 Land Cruiser, & '05 4Runner, Sequoia, Tacoma (V6), & Tundra

ENGINE  
EG048-05

**Introduction** Some 2004 and 2005 model year vehicles equipped with the A750 ATM may experience an intermittent M.I.L. "ON" condition with DTC P2742 (Transmission Fluid Temperature Sensor "B" Circuit Low). Replacement of the transmission wire harness will eliminate the condition.

### Applicable Vehicles

- **2004** model year **4Runner (V8)** and **Land Cruiser** vehicles equipped with the **A750 automatic transmission**.
- **2005** model year **4Runner, Land Cruiser, Sequoia, Tacoma (V6),** and **Tundra** vehicles equipped with the **A750 automatic transmission**.

### Parts Information

MODEL YEAR	MODEL	PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
2004	4Runner (V8)	82125-35130	Same	Wire Harness, Transmission	1
	Land Cruiser				
2005	4Runner	82125-35150	Same		
	Land Cruiser				
	Sequoia				
	Tacoma (V6)				
	Tundra				
Both	All	N/A	08886-02305	ATF WS	1.7 liters

### Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
EG5021	R & R Transmission Wire Harness	2.0	82125-35130 82125-35150	8A	73



#### Applicable Warranty\*:

This repair is covered under the Toyota Comprehensive Warranty. This warranty is in effect for 36 months or 36,000 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	<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 13.0a 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

\* 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

- To start diagnosis of the vehicle for DTC P2742, refer to the Technical Information System (TIS), applicable model and model year Repair Manual:  
*Diagnostics: Automatic Transmission (A750): P2740, P2742 or P2743.*
- Monitor transmission fluid temperature sensor No. 2 during diagnosis and watch for a short circuit to intermittently occur.

**NOTE:**

**If a short circuit is occurring, the transmission fluid temperature sensor No. 2 will read 302°F (150°C).**

- If no cause for the short circuit is found following the Repair Manual diagnosis, refer to the following sections on TIS to replace the transmission wire harness (P/N 82125–351#0).
  - 2004 – 2005 model year 4Runner Repair Manual:  
*Automatic Transmission / Trans: Transmission Wire (A750e/a750f): Replacement.*
  - 2004 – 2005 model year Land Cruiser Repair Manual:  
*Automatic Transmission: ATF Temperature Sensor: On–Vehicle Repair.*
  - 2005 model year Sequoia Repair Manual:  
*Automatic Transmission (A750e, A750F): ATF Temperature Sensor: On–Vehicle Repair.*
  - 2005 model year Tacoma Repair Manual:  
*Automatic Transmission / Trans: Transmission Wire (A750e/a750f): Replacement.*
  - 2005 model year Tundra Repair Manual:  
*Automatic Transmission (A750e, A750F): ATF Temperature Sensor: On–Vehicle Repair.*
- Adjust fluid to proper level.
  - Refer to TIS, applicable model and model year Repair Manual, to properly adjust fluid level.
- Test drive vehicle after replacement of transmission wire harness to confirm repair effectiveness.