



Technical Service Information Bulletin

July 29, 2004

Title:

M.I.L. "ON" DTC P0171 AND/OR P0174: ENGINE RUNNING LEAN

Models:

'04 RX 330

ENGINE
EG009-04

Introduction Some 2004 model year RX 330 vehicles may exhibit a M.I.L. "ON" condition with one or both of the following Diagnostic Trouble Codes stored as a result of a vacuum leak in the Intake Air Control Valve.

- P0171 (System Too Lean [Bank 1])
- P0174 (System Too Lean [Bank 2])

Applicable Vehicles • **2004** model year **RX 330** vehicles produced **BEFORE** the Production Change Effective VINs shown below.

Production Change Information

MODEL	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
RX 330	TMMC	2WD	2T2GA31U#4C006867
		4WD	2T2HA31U#4C010152
	TMK	2WD	JTJGA31U#40035331
		4WD	JTJHA31U#40064211

Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
17320-20020 17320-0A010	17320-0A010	Intake Air Control Valve Assembly No. 2	1
17127-20010	Same	Surge Tank Cover Gasket	1

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
EG4011	R & R Intake Air Control Valve Assembly No. 2	0.5	17320-20020 17320-0A010	8A	57

Applicable Warranty*:




This repair is covered under the Lexus Federal Emissions Warranty. This warranty is in effect for 48 months or 50,000 miles, whichever occurs first, from the vehicle's in-service date.

For California specification vehicles registered and operated in California, Maine, Massachusetts or Vermont, this repair is covered under the California Emissions Warranty, which is in effect for 48 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.



Required SSTs

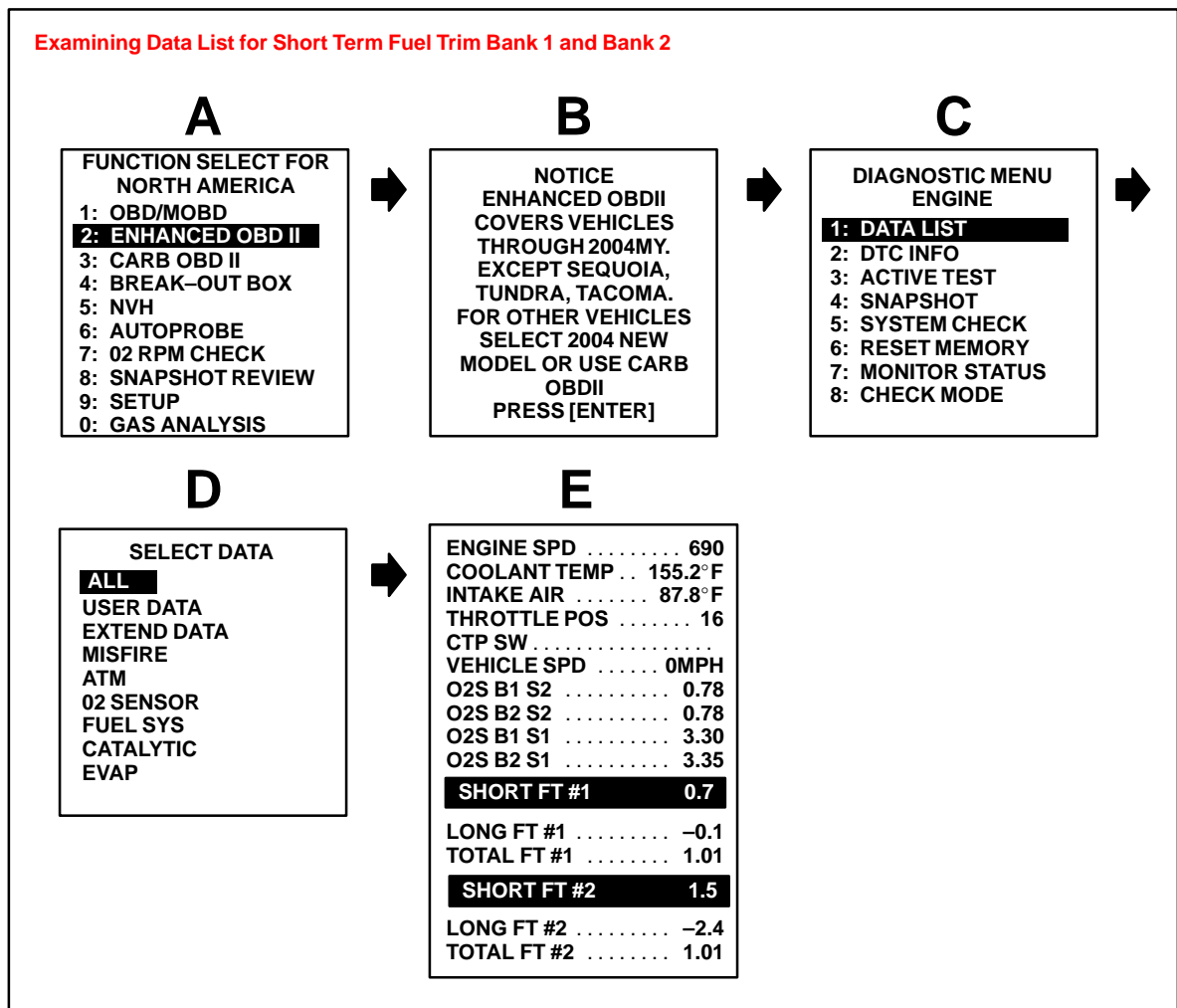
SPECIAL SERVICE TOOLS (SSTs)	PART NUMBER	QUANTITY
Lexus Diagnostic Tester Kit* 	01001270	1
CAN Interface Module Kit* 	01002744	1
12 Megabyte Diagnostic Tester Program Card with version 10.2a Software (or later)* 	01002593-005	1

* Essential SSTs.

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.

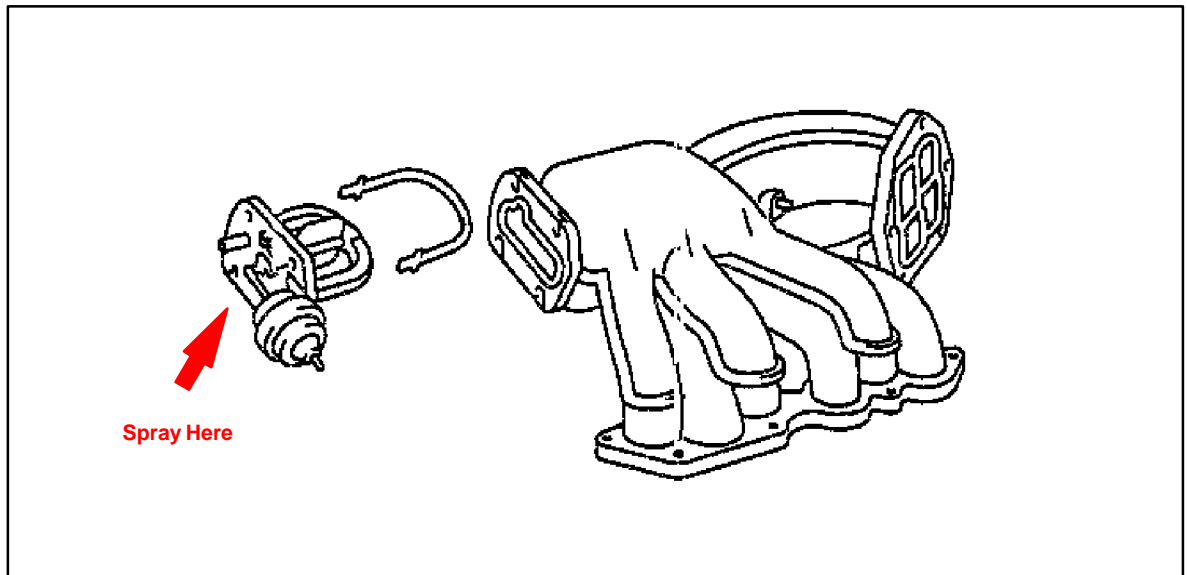
Repair Procedure

1. Monitor the Bank 1 and Bank 2 Short Term Fuel Trim in the Data List.



**Repair
Procedure**
(Continued)

2. Spray carburetor cleaner near the Intake Air Control Valve pivot shaft and monitor Short Term Fuel Trim as indicated in step 1.



3. Was the short term fuel trim changing to a rich reading, or negative fuel trim in step 2?

If Yes – Replace the Intake Air Control Valve. Refer to the Technical Information System (TIS), 2004 model year RX 330 Repair Manual: *Intake: Intake Air Control Valve Assy No. 2 (3MZ-FE): Replacement*.

After the Intake Air Control Valve has been replaced, proceed to step 4.

If NO – Check for other vacuum leaks or lean running conditions per TIS, 2004 model year RX 330 Repair Manual: *Diagnostics: SFI System (3MZ-FE): P0171, P0172, P0174, P0175 System Too Lean (RX 330)*.

4. Is the short term fuel trim now in the negative percent? Is the long term fuel trim returning closer to 0%?

If Yes – Clear short and long term fuel trims by disconnecting the negative battery cable for 90 seconds. Reconnect the negative battery cable and test drive the vehicle.

After the test drive, proceed to step 5.

If NO – Continue diagnosis for lean running conditions per TIS, 2004 model year RX 330 Model Repair Manual: *Diagnostics: SFI System (3MZ-FE): P0171, P0172, P0174, P0175 System Too Lean (RX 330)*.

5. Confirm lean running condition has been eliminated (short term fuel trims on All Data List less than 3% on both banks).