

Technical Service Information Bulletin August 11, 2003

Title: ECM CALIBRATION: SHIFTING ENHANCEMENT Models:

'04 RX 330

Introduction To enhance ATM shifting, the Engine Control Module (SAE term: Powertrain Control Module/PCM) calibration has been updated.

NOTE:

- Version 10.1a or later Diagnostic Tester software is required to perform this procedure.
- Before proceeding, verify the ECM (PCM) calibration has NOT been updated by checking for the Authorized Modifications Label (shown in Step 1 of the Repair Procedure).

Applicable Vehicles

• 2004 model year RX 330 vehicles.

Required SSTs

SPECIAL SERVICE TOOLS (SSTs)		PART NUMBER	QUANTITY
Lexus Diagnostic Tester Kit*		01001270	1
12 Megabyte Diagnostic Tester Program Card with version 10.1a 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.

Warranty Information

OP CODE	DESCRIPTION		OFP	T1	T2
TC3001	Recalibrate ECM Engine & Transmission	0.8	89661–48470 89661–48480 89661–48490 89661–48500 89661–48510 89661–48520	26	99

Applicable Warranty*:

This repair is covered under the Lexus 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.



C005

Calibration Identification Chart

MODEL	ECM (CPU)	PREVIOUS CALIBRATION ID	NEW CALIBRATION ID
2004 RX 330 FF (2WD) Sequential Shift (SS) Transmission	Main	34815000	34815100
	Sub	54803000	54803100
2004 RX 330 FF (2WD) Gate Shift (GS)	Main	34816000	34816100
Transmission	Sub	54804000	54804100
2004 RX 330 (4WD) Sequential Shift (SS)	Main	34817000	34817100
Transmission	Sub	54805000	54805100
2004 RX 330 (4WD) Gate Shift (GS)	Main	34818000	34818100
Transmission	Sub	54806000	54806100

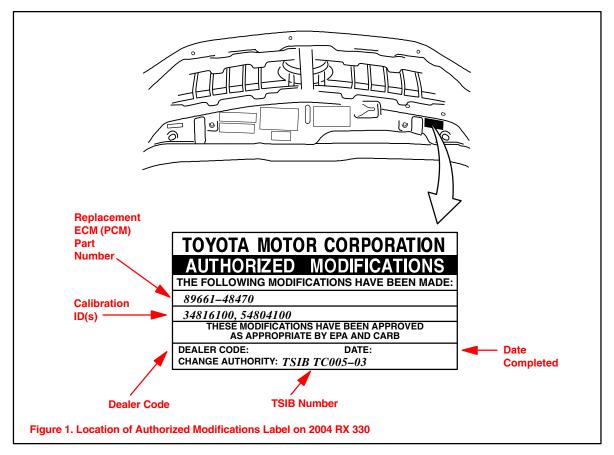
NOTE:

Calibration files on Diagnostic Tester use the following abbreviations:

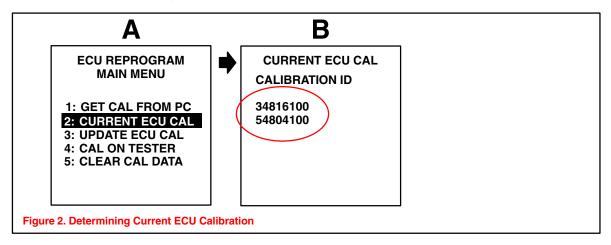
- SS = Sequential Shift Transmission
- GS = Gate Shift Transmission
- FF = 2WD, Front Wheel Drive

Repair Procedure

 Check for the Authorized Modifications Label affixed to the vehicle in the location shown in Figure 1. Confirm if ECM (PCM) calibration has been updated. If not latest ECM (PCM) calibration – go to step 2.



- Repair
Procedure
(Continued)2.Connect the Diagnostic Tester to the vehicle and select CURRENT ECU CAL from
the ECU REPROGRAM MAIN MENU. Determine the vehicle's current ECU
calibration (see Figure 2).
 - The sample screen prints seen below are the 10.1a software version, and may differ from subsequent software versions.



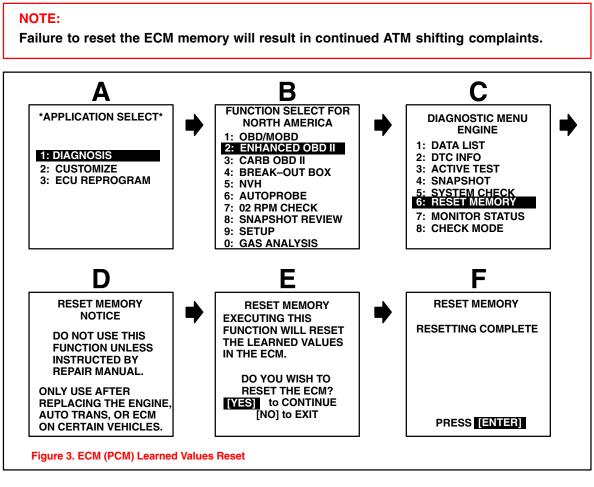
NOTE:

- If Calibration ID matches "Previous Calibration ID" as shown in Calibration Identification Chart on page 2, proceed with flash reprogramming.
- If Calibration ID matches "New Calibration ID" as shown in Calibration Identification Chart, this vehicle has already been programmed. Refer to Repair Manual for diagnosis.
- 3. If ECU calibration ID is not the same as the "New Calibration ID" listed previously, proceed to Flash Reprogram ECM (PCM).

Repair Flash Reprogram ECM

Procedure (Continued)

- Follow the procedures outlined in Lexus TSIB SS001–01 "ECU Flash Reprogramming Process" dated March 9, 2001 and flash the ECM (PCM) with new calibration file update.
 - 2. Reset the ECM (PCM) learned values using the diagnostic tester. Refer to the procedures below.
 - The sample screen prints seen below are the 10.1a software version, and may differ from subsequent software versions.



- Start the engine and warm it up to normal operating temperature before test-driving.
- 4. Test drive vehicle to confirm proper vehicle operation.
- 5. Enter the required information on the Authorized Modifications Label and affix it to the vehicle at the location shown in Figure 1 (page 2). The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.
- 6. Calibration update is complete.

NOTE:

- Select premium unleaded gasoline with an Octane Rating of 91 (Research Octane Number 96) or higher for optimum engine performance.
- The effect of the new calibration may become more apparent after several days of driving as the ECM (PCM) "learned values" are reestablished from the customer's driving.