



SERVICE BULLETIN

Classification: EC04-001	Reference: NTB04-025	Date: February 19, 2004
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2004 MAXIMA AND QUEST (4AT & 6MT MODELS ONLY); MIL ON P0171 / P0174 / P1273 / P1283

APPLIED VEHICLE: 2004 Maxima (A34) with 4-speed A/T and 6-speed M/T
2004 Quest (V42) with 4-speed A/T

NOTE: This bulletin does NOT apply to vehicles with 5-speed A/T. See NTB04-027.

IF YOU CONFIRM:

The following DTC code(s) are stored:

- DTC P0171/P1273

OR

- DTC P0174/P1283

NOTE: This bulletin does NOT apply if you have P0171 and P0174 together or you have P1273 and P1283 together.

ACTIONS:

1. Make sure the engine does not have any intake or exhaust leaks.
2. Replace the Air/Fuel Sensor (if no intake or exhaust leaks are found).
 - Codes P0171 and/or P1273; replace Bank 1 sensor.
 - Code P0174 and/or P1283; replace Bank 2 sensor.
3. If needed, reprogram the ECM (see the Service Procedure, step 3 on page 4).

IMPORTANT: The purpose of "ACTIONS" (above) is to give you a quick idea of the work you will be performing. You **MUST** closely follow the entire Service Procedure (starting on page 3) as it contains information that is essential to successfully completing this repair.

PARTS INFORMATION

DESCRIPTION	PART #	QUANTITY
Air Fuel Sensor (Bank 1 or Bank 2)	22693-7Y000	1

CLAIMS INFORMATION

Submit a Primary Failed Part (PP) line claim using the following claims coding:

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
RPL One Air/Fuel Ratio Sensor	(1)	DE53AA	HD	32	(2)

- (1) Reference the Parts Information table and use the indicated sensor P/Ns as the PFP.
- (2) Reference the current Nissan Warranty Flat Rate Manual and use the indicated FRT.

AND, IF REQUIRED

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram ECM per TSB		DE98AA			0.8 hrs

SERVICE PROCEDURE

1. Make sure the engine does not have any intake or exhaust leaks.
 - Use the EC section of the appropriate Service Manual (ESM) and ASIST for intake and exhaust system diagnostic information.
 - If no intake or exhaust system leaks are found, go to step 2.
2. Replace the A/F Sensor (bank 1 or bank 2).
 - The A/F Sensor is located in the exhaust manifold in front (upstream) of the catalyst.

For DTC code(s) P0171 and/or P1273:

- Replace A/F Sensor—Bank 1
- It is located on the side of the engine that is towards the **rear** of the vehicle (see Figure 1)

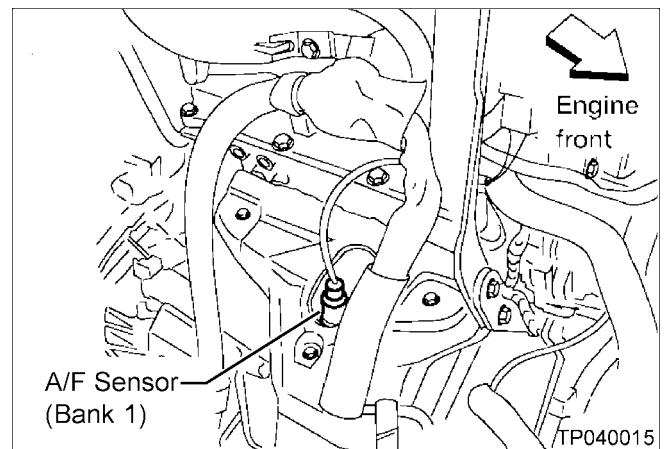


Figure 1

For DTC code(s) P0174 and/or P1283:

- Replace A/F Sensor—Bank 2
- It is located on the side of the engine that is towards the **front** of the vehicle (see Figure 2)

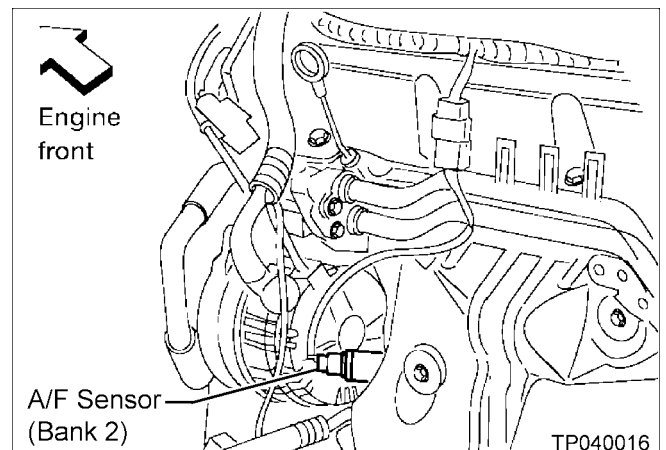


Figure 2

3. Reprogram the ECM (needed **only** if a match is found in chart A).

- Check the Current ECM Part Number.
- Compare your Current ECM Part Number to Chart A below.

Check the Current ECM Part Number

With CONSULT-II “ON”, print the Freeze Frame data as follows:

START(Nissan) >> **ENGINE** >> **Self-DIAG Results** >> **F.F. Data** >> **PRINT**

- The Freeze Frame data that you’ve printed contains the ECM Part Number (P/N).
- Figure 3 is an example of the F.F. Data printout.

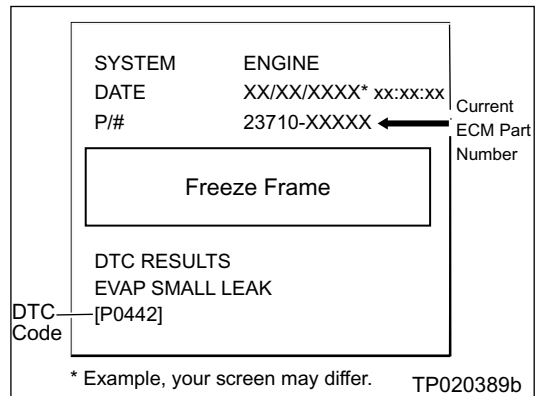


Figure 3

Compare the Current ECM Part Number to Chart A:

Compare the vehicle's current ECM P/N to those shown under **Current ECM P/N** in **Chart A**, below:

Chart A

VEHICLE	PACKAGE	Current ECM P/N
Maxima	4 speed A/T	23710-8Y100, -8Y101, -8Y102, -8Y103, -8Y104, -8Y105
	4 speed A/T with TCS	23710-8Y110, -8Y111, -8Y112, -8Y113, -8Y114, -8Y115
	6 speed M/T	23710-7Y000, -7Y001, -7Y002, -7Y003, -7Y004, -7Y005
	6 speed M/T with TCS	23710-7Y010
	5 speed A/T	TSB does not apply. Refer to NTB04-027.
	5 speed A/T with TCS	TSB does not apply. Refer to NTB04-027.
Quest	4 Speed A/T	23710-CK005, -CK006, -CK007, -CK008
	5 speed A/T	TSB does not apply. Refer to NTB04-027.

A. If your vehicle’s ECM P/N **matches** a P/N in the chart above:

- Perform **ECM Reprogramming**, starting on page 5.

B. If your vehicle’s ECM P/N **does not match** a P/N in the chart above:

- **This bulletin does not apply.** Refer to the appropriate TSB or ESM for further diagnosis and repair.

ECM REPROGRAMMING

Vehicle ECM Reprogramming Overview

- There are four basic steps
 1. Download reprogramming data (transfer it) from ASIST into CONSULT-II.
 2. “Preparation” steps before reprogramming.
 3. Reprogram the vehicle ECM.
 4. “Wrap-up” after reprogramming is finished.
- **If you’re not familiar with the latest ECM reprogramming procedures**, click [here](#).

This will link you to the "ECM Reprogramming For Nissan Vehicles" general procedure. Or, refer to Attachment A in the print copy of this bulletin.
- For those familiar with ECM Reprogramming, please review the following steps and use them as a Quick Reference for ECM reprogramming.

Step One: Download (Transfer) Data From ASIST Into CONSULT-II

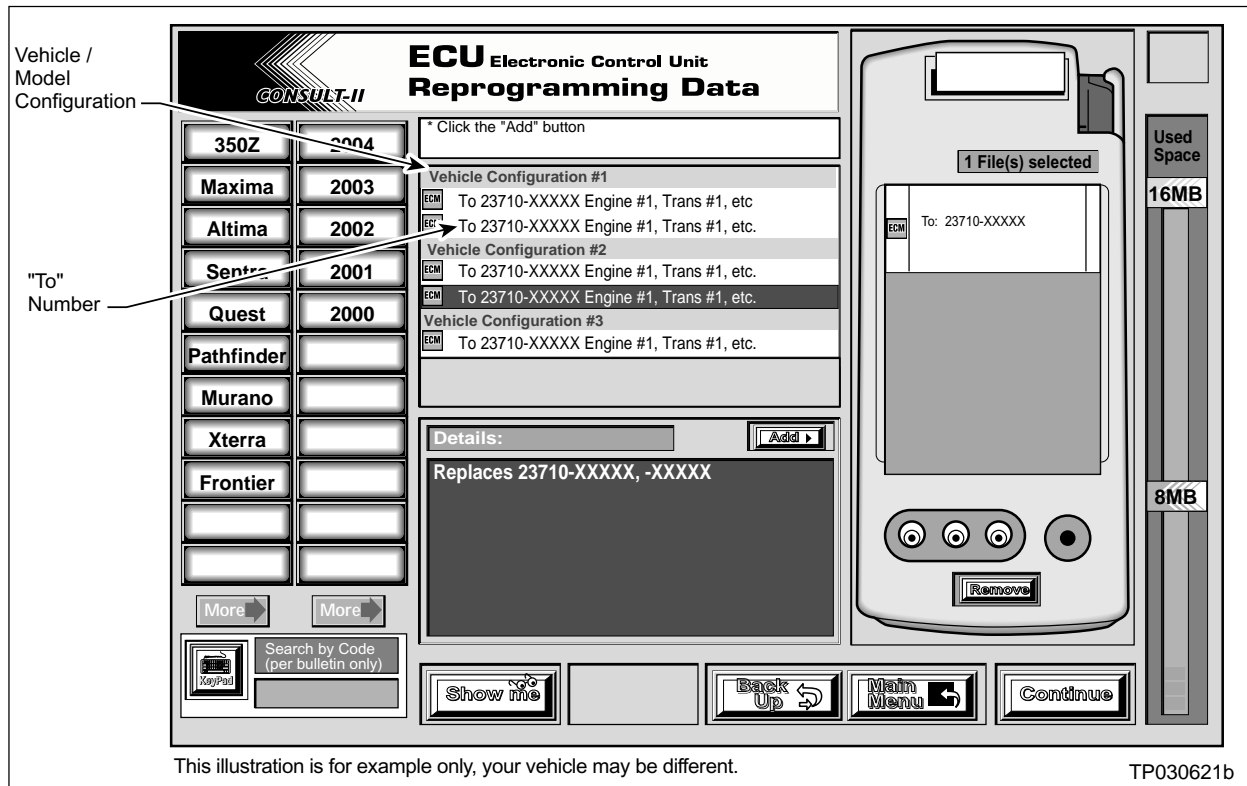


Figure A

1. Select vehicle model and model year (Example: Maxima, 2004).
2. Select the correct reprogramming data:
 - a. Locate the specific "Model Configuration" (Example: VQ35 4A/T ASCD TCS).

NOTE: Model Configuration may include items such as engine type, transmission type, and vehicle options such as ASCD, TCS, ABS, etc.
 - b. Select (click on) the "To" number. (Write the "To" number on the repair order.)

NOTE: The "To" number will read: 23710-XXXXX.
3. Click on the "Add" button.
 - This will add the selected data to the "File(s) Selected" list.
4. Click on "Continue" and follow directions to perform "data transfer" (download) from ASIST into CONSULT-II.

Step Two: Preparation for Reprogramming ECM

1. Connect a battery charger to the vehicle's battery.
 - Set the charger to a low charger rate (trickle charge).

CAUTION: DO NOT connect the CONSULT-II AC power supply for items 2 and 3.

2. Press **SUB MODE** (see Figure B) then:
 - a. From the listed items, find and select **BATTERY CHARGE**.

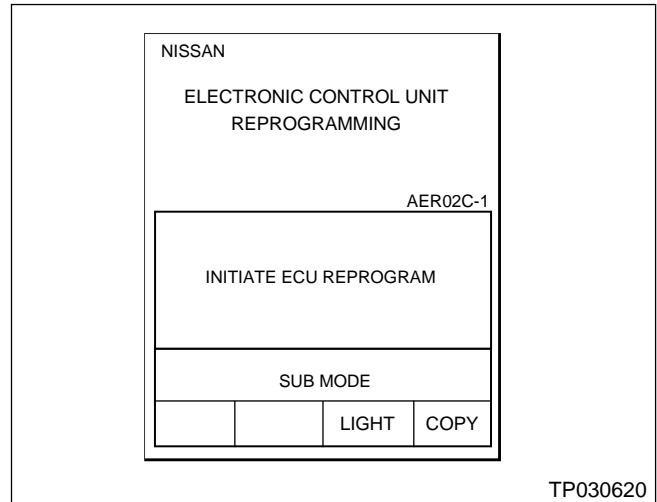


Figure B

3. Check the CONSULT-II's "Charger Input" reading (see Figure C).

NOTE:

- "Battery Voltage" is the voltage level of CONSULT-II's battery.
- "Charger Input" is the voltage level of the vehicle's battery. **(It must be above 12 volts.)**

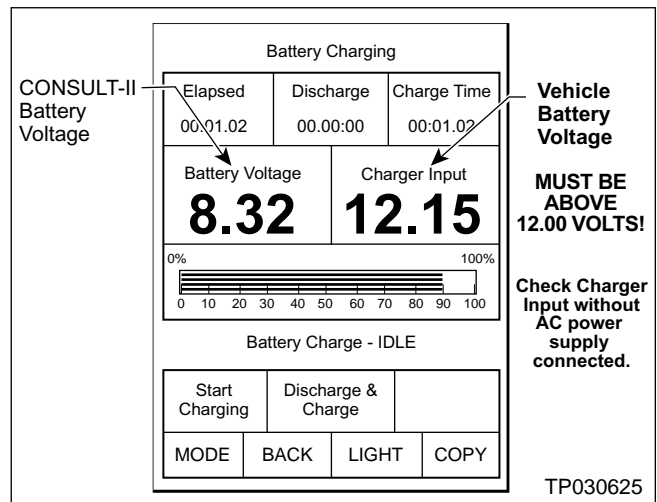


Figure C

CAUTION: If the "Charger Input" is below 12 volts:

- Click [here](#) to link to the "ECM Reprogramming For Nissan Vehicles" general procedure, or refer to Attachment A in the print copy of this bulletin.
- The general procedure includes a list of items to check when "Charger Input" voltage is below 12V.

Step Three: Reprogram the Vehicle ECM

Step Four: “Wrap-up” After Reprogramming is Finished

1. Turn the ignition switch "OFF" and turn CONSULT-II “OFF”.
2. Wait more than 10 seconds, then;
 - a. Turn the ignition switch "ON" for 1 second, then
 - b. Turn the ignition switch "OFF" again for 10 seconds (see Figure D).
 - This will reset ECM “self learned” Data.

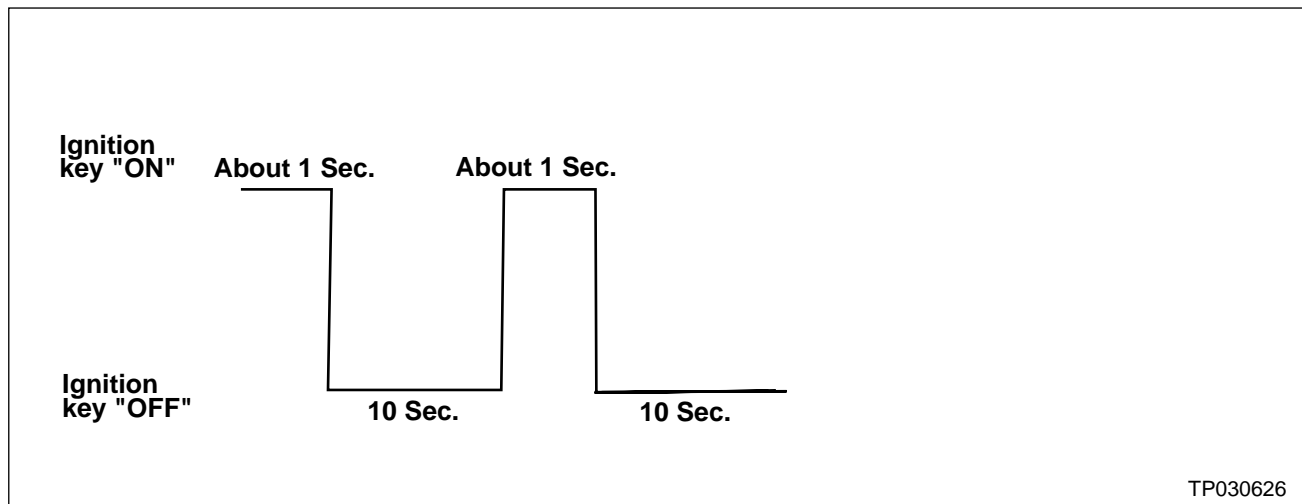


Figure D

3. Start the engine and check the idle speed.
 - If idle speed is too low, perform IAVL (Idle Air Volume Learning). See the appropriate Service Manual (ESM) for this procedure.

NOTE: If the engine will not idle, hold the engine RPM at about 2000, then slowly bring it down to an idle. IAVL can now be performed.
4. Confirm the engine is operating normally.
5. Make sure the “Check Engine Light “ (MIL) is not “ON”.
 - If necessary, use CONSULT-II and the Diagnostic (red/white) Card to erase any DTC’s that may have stored during the reprogramming procedure.