

Reference:

ITB12-067

Date:

October 25, 2012

VOLUNTARY SERVICE CAMPAIGN 2013 JX35 ECM REPROGRAM FOR AIR FUEL SENSOR

CAMPAIGN ID #: PC185**APPLIED VEHICLES:** 2013 JX35 (L50)**Check Service Comm to confirm campaign eligibility**

INTRODUCTION

On certain 2013 JX35 vehicles, an Engine Control Module (ECM) improper calibration may cause damage to the Air Fuel (A/F) sensors. To remedy this potential condition, Infiniti is conducting this Voluntary Service Campaign to reprogram the ECM and, if needed, replace the A/F sensors. This service will be performed at no charge for parts or labor.

IDENTIFICATION NUMBER

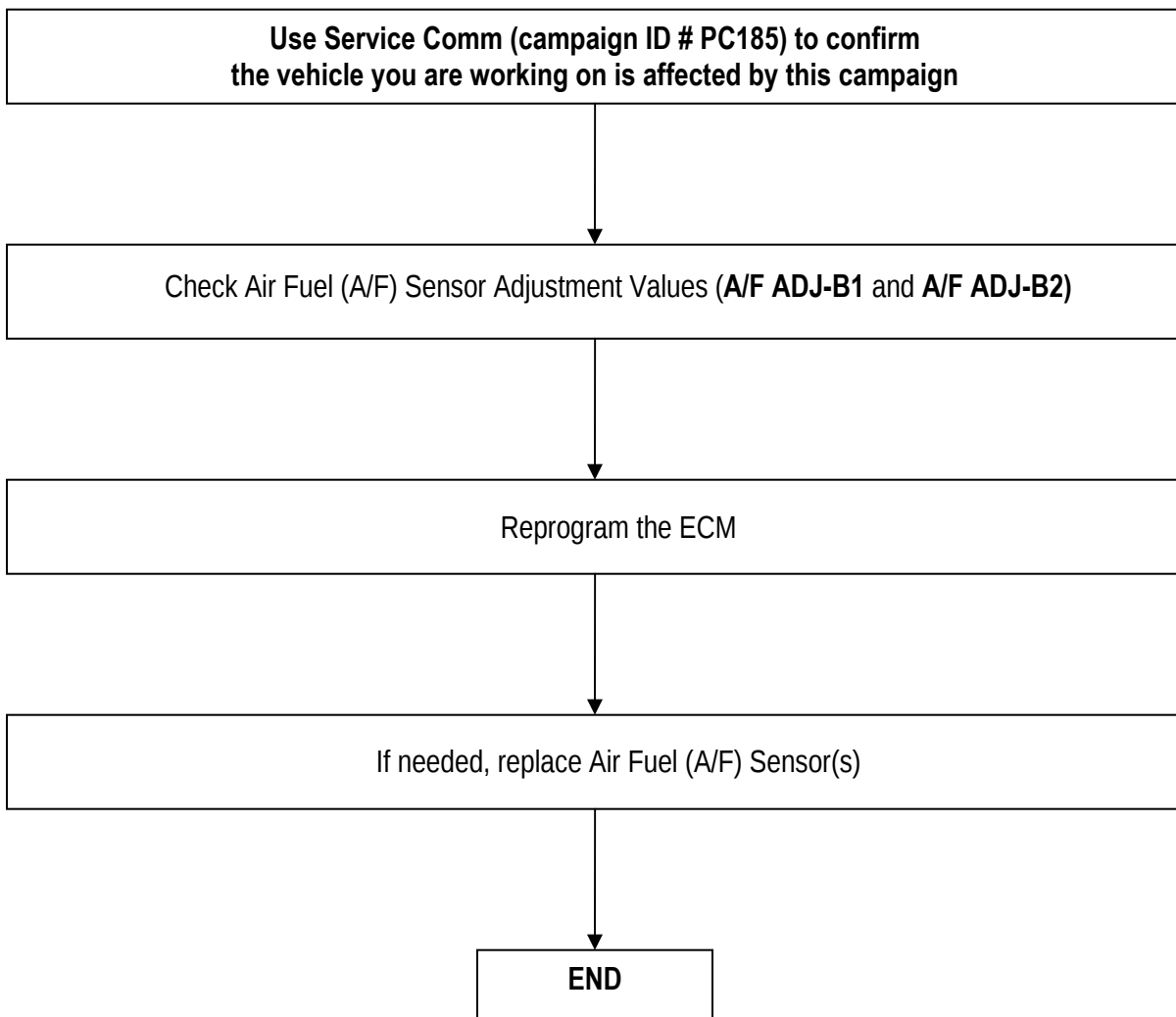
Infiniti has assigned identification number PC185 to this campaign. This number must appear on all communications and documentation of any nature dealing with this campaign.

DEALER RESPONSIBILITY

Dealers are to correct each vehicle falling within the range of this campaign that enters the service department. This includes vehicles purchased from private parties or presented by transient (tourist) owners and vehicles in a dealer's inventory.

Infiniti Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Infiniti dealer to determine if this applies to your vehicle.

REPAIR OVERVIEW



SERVICE PROCEDURE

Check Air Fuel (A/F) Sensor Adjustment Values

1. Connect the CONSULT PC to the vehicle.
2. Turn the ignition ON.
3. Open ASIST on the CONSULT PC and start C-III plus.
4. Wait for the plus VI to be recognized / connected.
 - Serial number will display when the plus VI is recognized / connected.
5. Select **Diagnosis (One System)**.

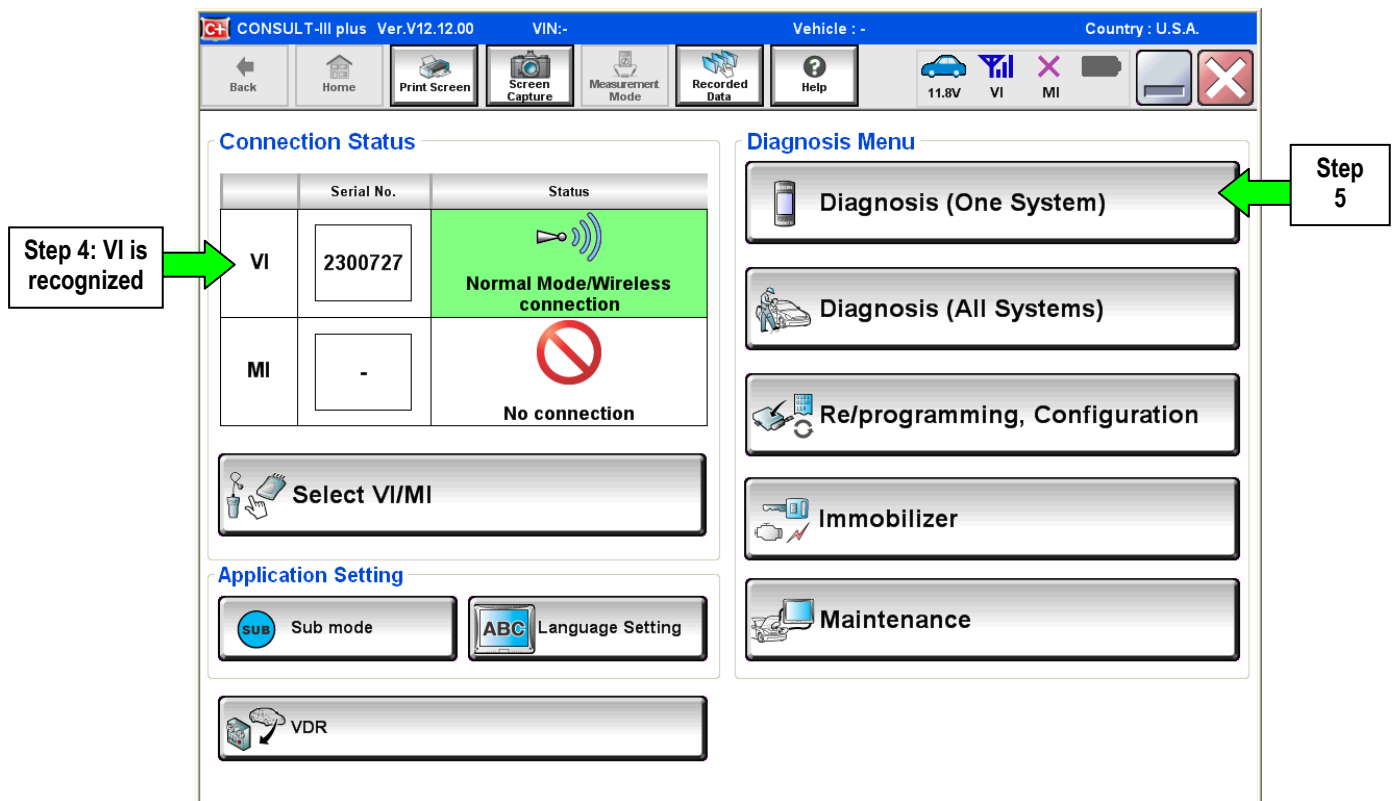


Figure A1

6. Select **ENGINE**.

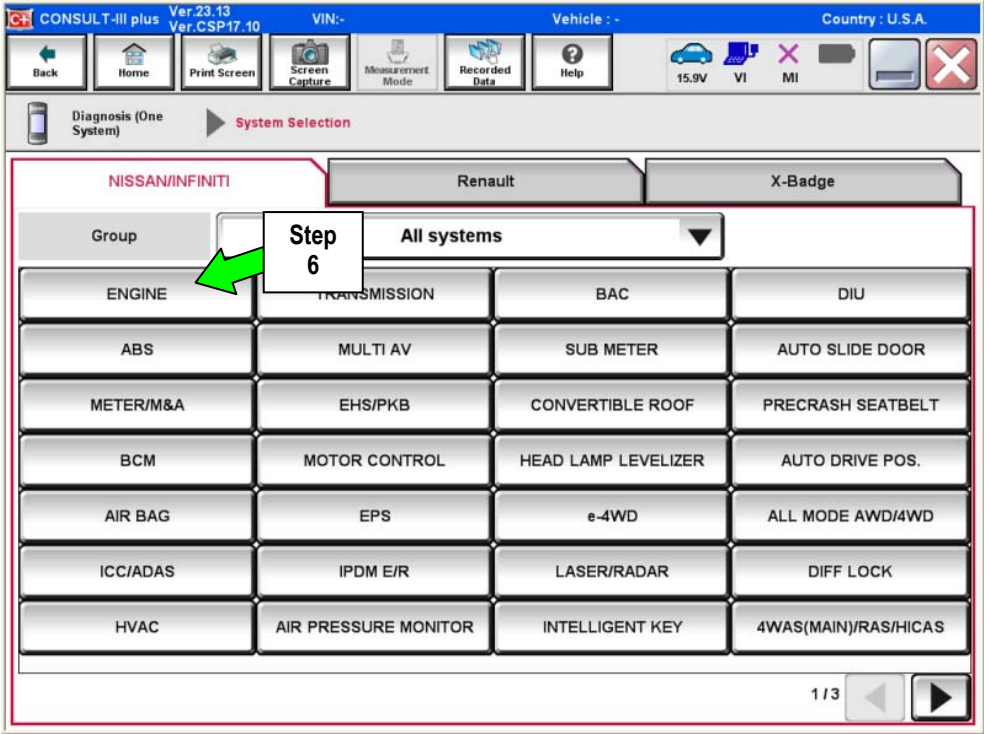


Figure A2

7. Select **Data Monitor**.

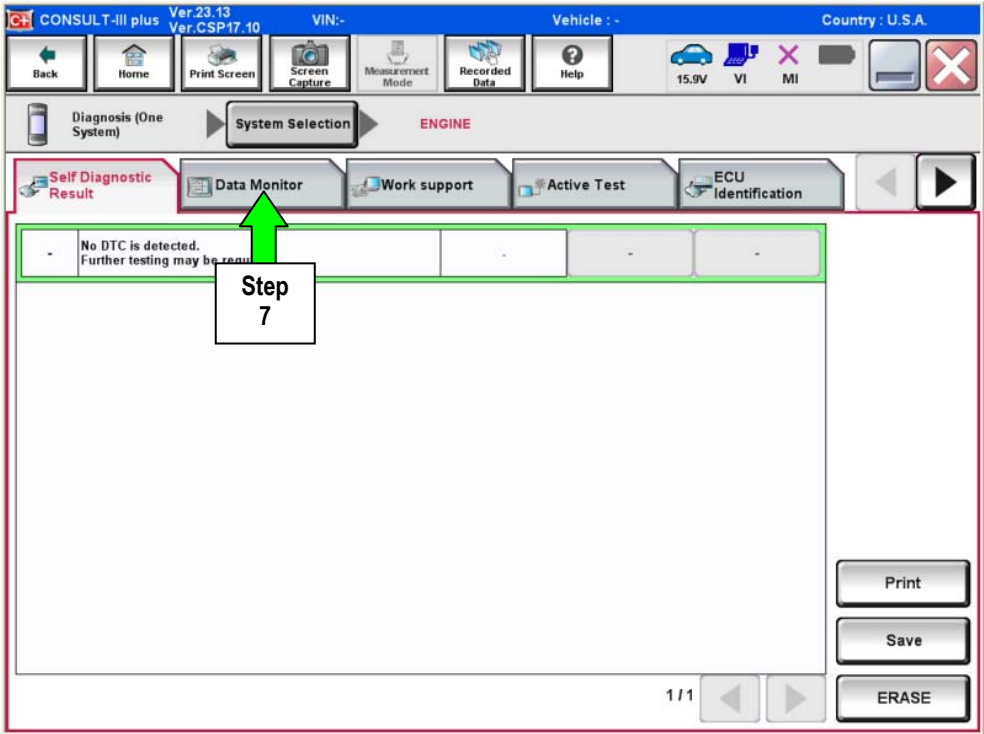


Figure A3

8. Select **A/F ADJ-B1** and **A/F ADJ-B2**.
 - Use arrows to scroll and find the above items.
9. Select **Start**.

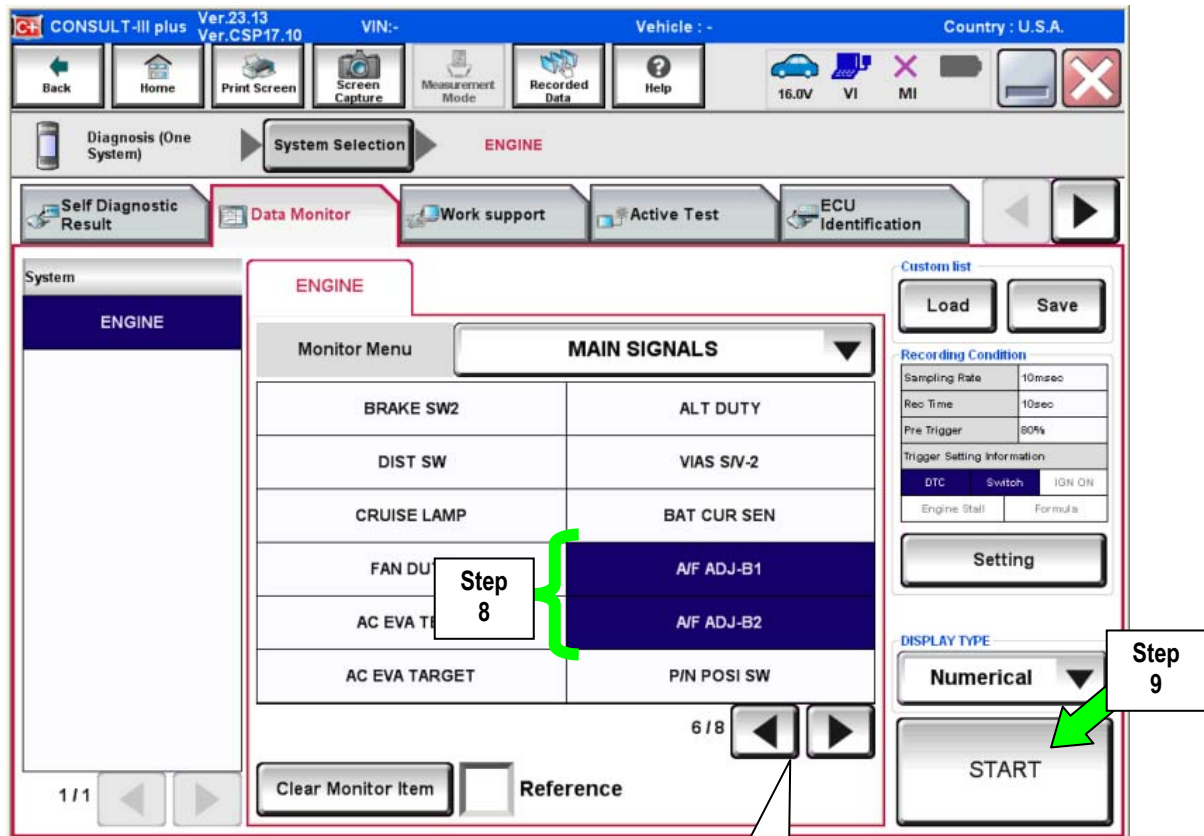


Figure A4

10. Check values for **A/F ADJ-B1** and **A/F ADJ-B2**.

- Value for each sensor should be between – **0.300** and **0.300**.
- If a sensor (one or both) is out of the above specified range, make a note of it.
- Sensor(s) that are out of the specified value will be replaced later in this procedure.

NOTE: Most vehicles serviced under this campaign will not require new sensors. It is expected that only 5% of serviced vehicles will need sensor replacement.

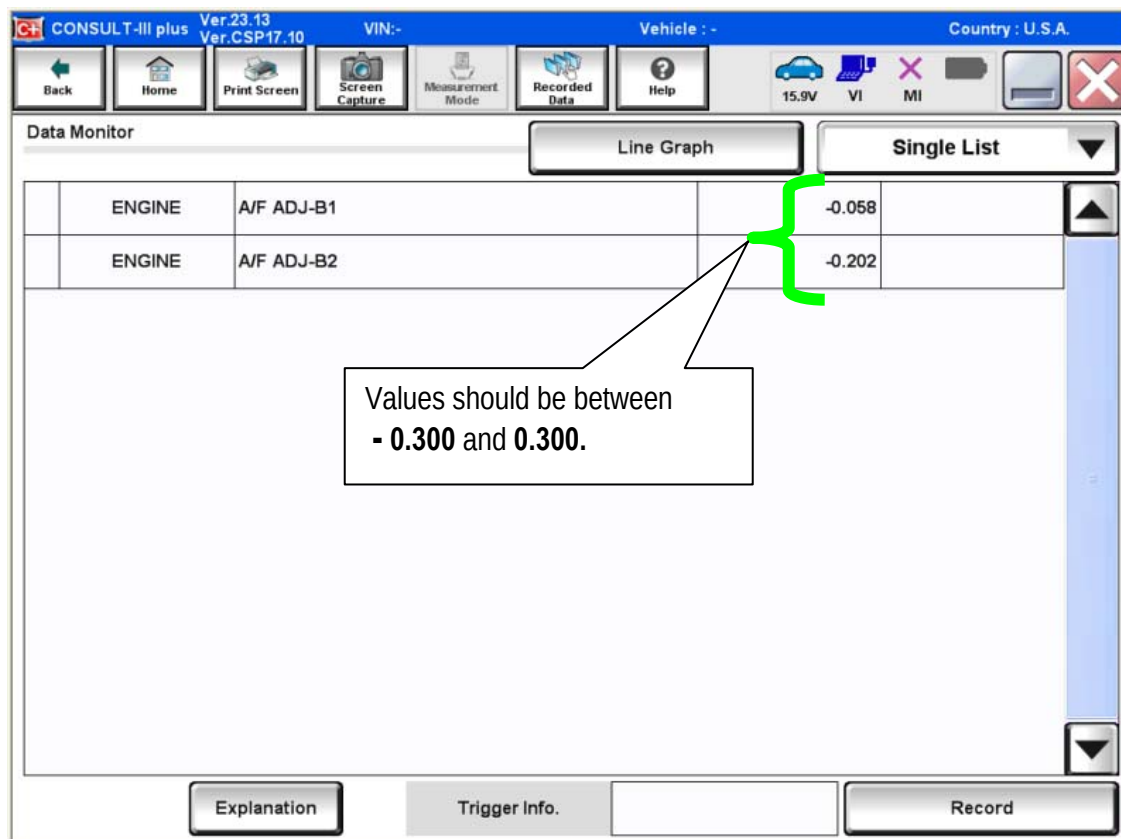


Figure A5

DO NOT replace A/F sensors at this time.

If needed, replace A/F sensors after ECM reprogramming.

11. Go to ECM Reprogramming on the next page.

ECM Reprogramming

- Most instructions for reprogramming with CONSULT-III plus (C-III plus) are displayed on the CONSULT PC screen.
- If you are not familiar with the reprogramming procedure, [click here](#). This will link you to the "CONSULT- III plus (C-III plus) Reprogramming" general procedure.

Preparation for Reprogramming

1. Take the vehicle for a 10 minute drive in order to meet the following Idle Air Volume Learn (IAVL) conditions:

- Engine coolant temperature: 70 -100°C (158 - 212°F)
- Battery voltage: More than 12.9V (At idle)
- Transmission: Warmed up



Figure 1

NOTE:

- After ECM reprogramming is complete, you will be required to perform Throttle Valve Closed Position, Idle Air Volume Learn (IAVL), and Accelerator Closed Position.
- The above conditions are required for the IAVL to complete.

CAUTION:

- Connect a battery charger to the vehicle battery.
The vehicle battery voltage must stay between 12.0V and 15.5V during reprogramming, or the ECM may be damaged.
- Be sure to turn OFF all vehicle electrical loads.
If a vehicle electrical load remains ON, the ECM may be damaged.
- Be sure to connect the AC Adapter.
If the CONSULT PC battery voltage drops during reprogramming, the process will be interrupted and the ECM may be damaged.
- Turn off all external Bluetooth® devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the VI. If Bluetooth® signal waves are within range of the CONSULT PC during reprogramming, reprogramming may be interrupted and the ECM may be damaged.

2. Return to the C-III plus home screen.
3. Confirm the VI is recognized / connected.
 - Serial number will display when the VI is recognized / connected.
4. Select **Re/programming, Configuration**.

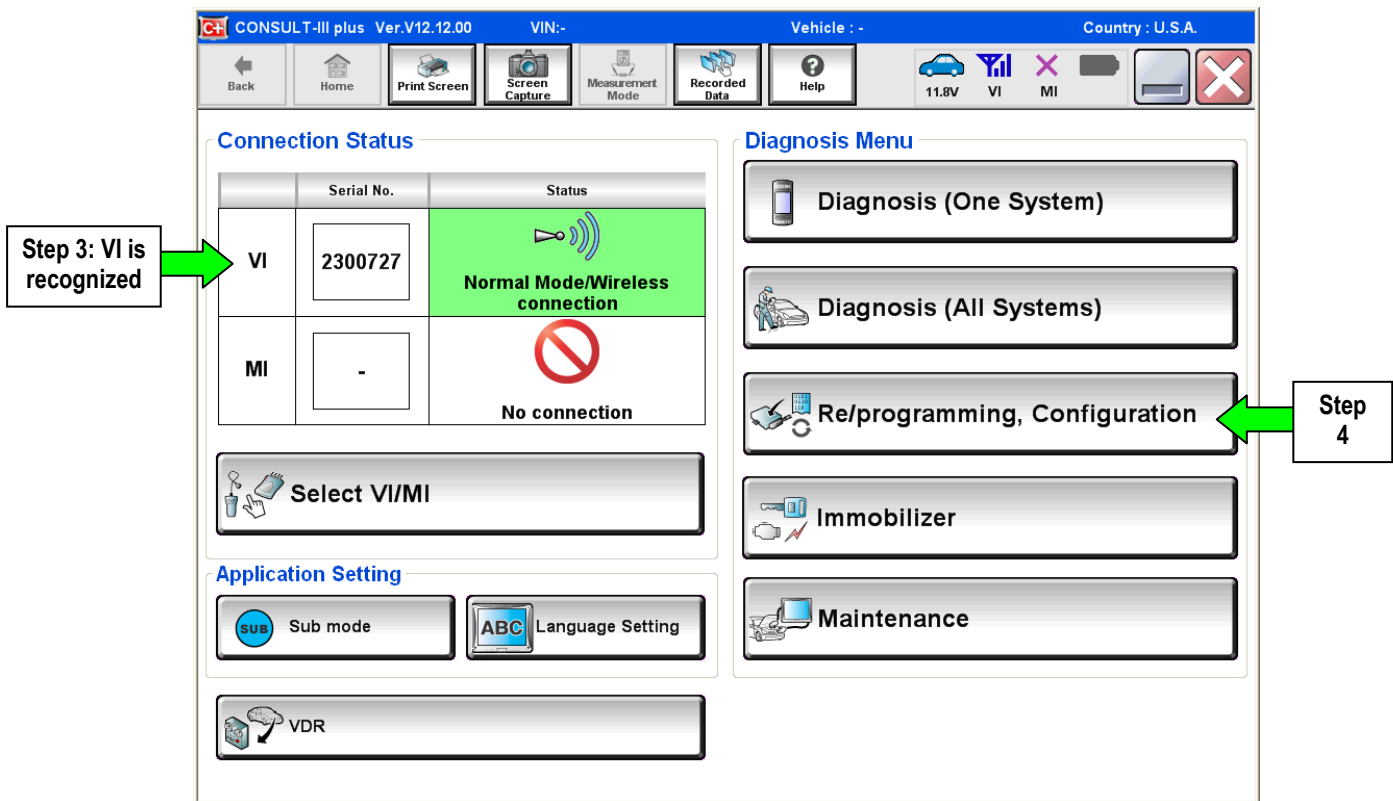


Figure 2

5. Follow the C-III plus on-screen instructions and navigate to the screen shown in Figure 4 on the **next page**.

IMPORTANT:

During the initial “Reprogramming Confirmation” set-up, if you get this screen (Figure 3):

1. Select **Delete**, then
2. Select **Other Operation**, then
3. Continue with the reprogramming procedure.

NOTE: If reprogramming does not complete, this screen can display for reprogramming recovery. Do not select Delete if this screen displays during reprogram recovery.

CONSULT-III plus Ver.V12.12.00 VIN:JN1AJ0HR9BM850664 Vehicle : INFINITI EX35 J50 2012 Country : U.S.A.

Back Home Print Screen Screen Capture Measurement Mode Recorded Data Help 12.9V VI MI

Re/programming, Configuration Vehicle Confirmation **Operation Log Selection**

Operation Log Selection

CONSULT has the saved data related re/programming and configuration.
In case you want to write the save data from CONSULT to vehicle ECU, touch and select the data in Save data list (left side), and confirm the detail (right side). If the detail is OK, and touch "Confirm". In case you want to do other operation, touch "Other Operation".

Saved Data List	Saved Data Detail												
JN1AJ0HR9BM850664	<table border="1"><tr><td>Operation</td><td>REPROGRAMMING</td></tr><tr><td>System</td><td>ENGINE</td></tr><tr><td>Part Number</td><td>26710-1UW0B</td></tr><tr><td>Vehicle</td><td>INFINITI EX35</td></tr><tr><td>VIN</td><td>JN1AJ0HR9BM850664</td></tr><tr><td>Saved Date</td><td>2011/09/05 15:53:36</td></tr></table>	Operation	REPROGRAMMING	System	ENGINE	Part Number	26710-1UW0B	Vehicle	INFINITI EX35	VIN	JN1AJ0HR9BM850664	Saved Date	2011/09/05 15:53:36
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Part Number	26710-1UW0B												
Vehicle	INFINITI EX35												
VIN	JN1AJ0HR9BM850664												
Saved Date	2011/09/05 15:53:36												

1/1 1/1

Delete Other Operation Confirm

Figure 3

6. When you get to the screen shown in Figure 4, confirm this bulletin applies as follows:

A. Find the ECM **Part Number** and write it on the repair order.

NOTE: This is the current ECM Part Number (P/N).

CONSULT-III plus Ver. VIN Vehicle : Country : U.S.A.

Back Home Print Screen Screen Capture Measurement Mode Recorded Data Help 11.8V VI MI 7/7

Re/programming, Configuration Operation Selection **Save ECU Data**

Save ECU Data

Touch "Save" to save operation log and the current part number as listed below to CONSULT. Operation log helps to restart next operation by selecting suitable operation log. Operation log is erased after operation has completely finished.

File Label	XXXXXXXXXXXXXXXXXX
Operation	REPROGRAMMING
System	ENGINE
Part Number	23710- _____
Vehicle	XXXXXXXXXXXXXXXXXX
VIN	XXXXXXXXXXXXXXXXXX
Date	11/1/201X 1:22:16 AM

Save

Figure 4

B. Compare the P/N you wrote down to the numbers in the **Current ECM Part Number** column in **Table A** below.

- If there is a match, this bulletin applies. Continue with the reprogramming procedure.
- If there is not a match, reprogramming does not apply or it has already been done. Check Service Comm to confirm campaign eligibility.

Table A – ECM

Model	Current <u>ECM</u> Part Number: 23710 -
2013 JX35	3JA1A, 3JA2A, 3JA3A, 3JA4A, 3JA5A, 3JA6A
	3JA1B, 3JA2B, 3JA3B, 3JA4B, 3JA5B, 3JA6B

7. Follow the on-screen instructions to navigate C-III plus and reprogram the ECM.

NOTE:

- In some cases, more than one new P/N for reprogramming is available.
 - In this case, the screen in Figure 5 displays.
 - Select and use the reprogramming option that **does not** have the message “Caution! Use ONLY with ITBXX-XXX”.
- If you get this screen and it is blank (no reprogramming listed), it means there is no reprogramming available for this vehicle.

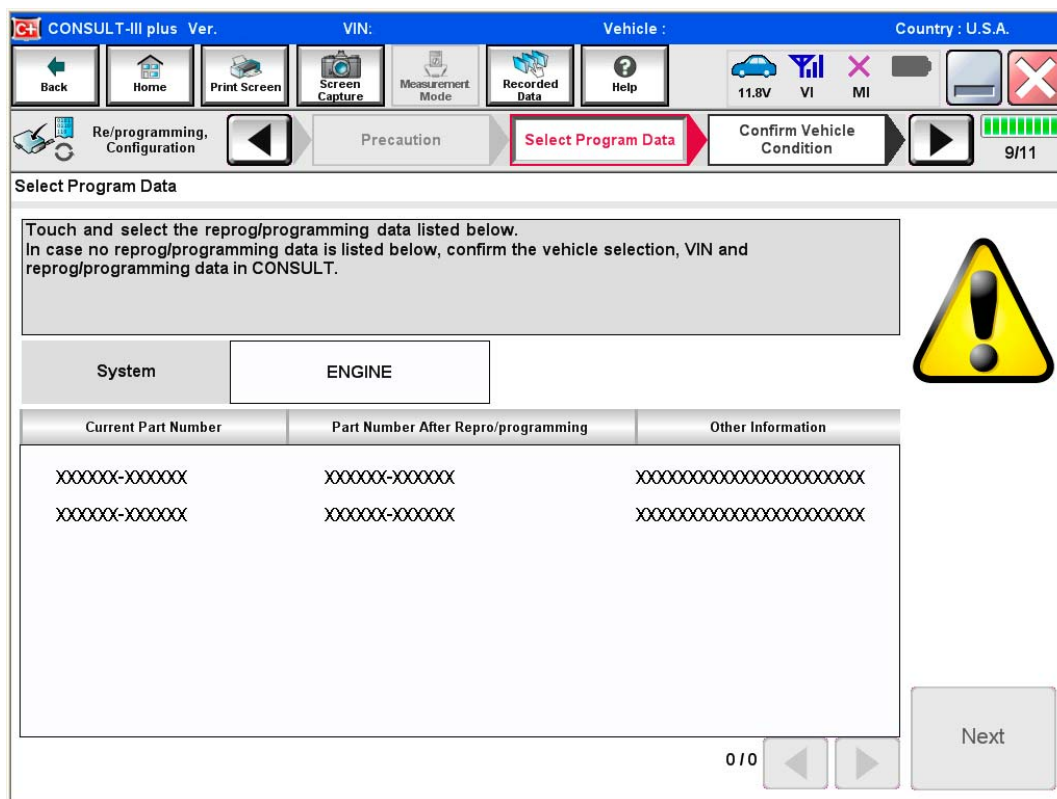


Figure 5

8. When the screen in Figure 6 displays, reprogramming is complete.

NOTE: If the screen in Figure 6 does not display (reprogramming does not complete), refer to the information on the next page.

9. Disconnect the battery charger from the vehicle.

10. Select **Next**.

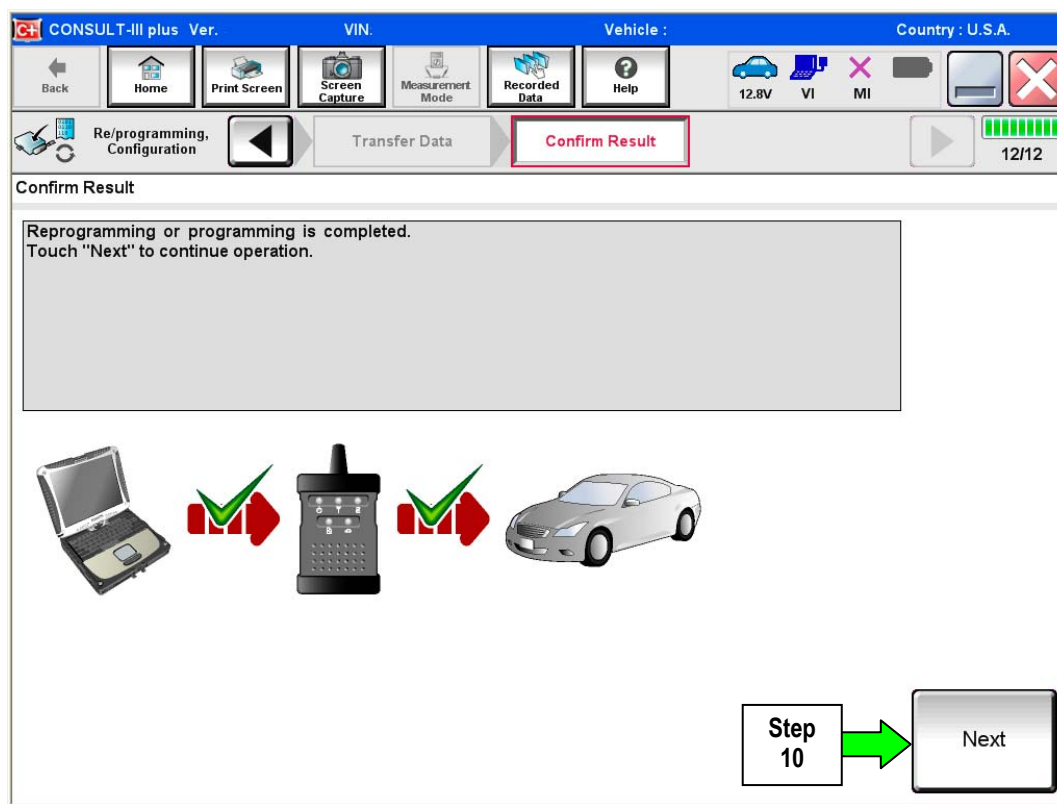


Figure 6

NOTE:

- In the next steps on page 14, you will perform Throttle Valve Closed Position, Idle Air Volume Learn, Accelerator Closed Position, and DTC erase.
- These operations are required before C-III plus will provide the final reprogramming confirmation report.

ECM recovery:

Do not disconnect plus VI or shut down C-III plus if reprogramming does not complete.

If reprogramming does not complete and the “!” icon displays as shown in Figure 7:

- Check battery voltage (12.0–15.5 V)
- Ignition is ON, engine OFF
- External Bluetooth® devices are OFF
- All electrical loads are OFF
- **Select retry and follow the on screen instructions**
- “Retry” may not go through on first attempt and can be selected more than once

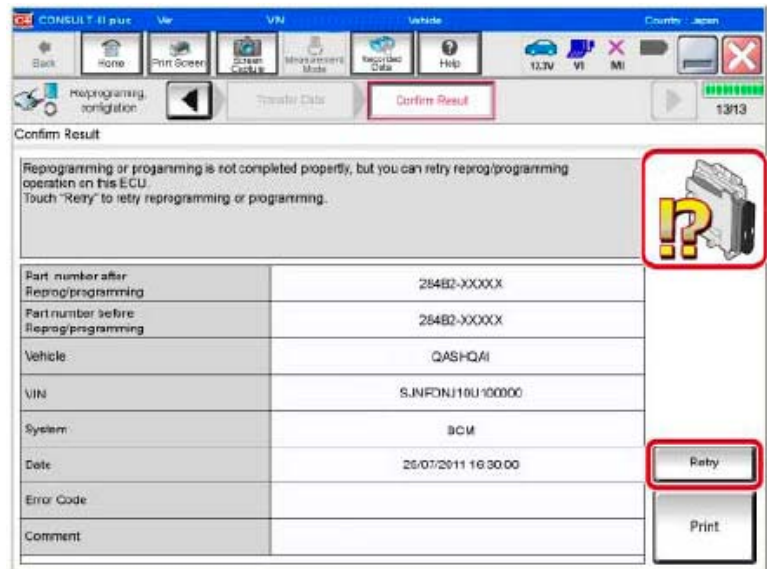


Figure 7

If reprogramming does not complete and the “X” icon displays as shown in Figure 8:

- Check battery voltage (12.0 – 15.5 V)
- CONSULT A/C adapter is plugged in
- Ignition is ON, engine OFF
- Transmission is in Park
- All C-III plus / VI cables are securely connected
- All C-III plus updates are installed
- **Select Home, and restart the reprogram procedure from the beginning**

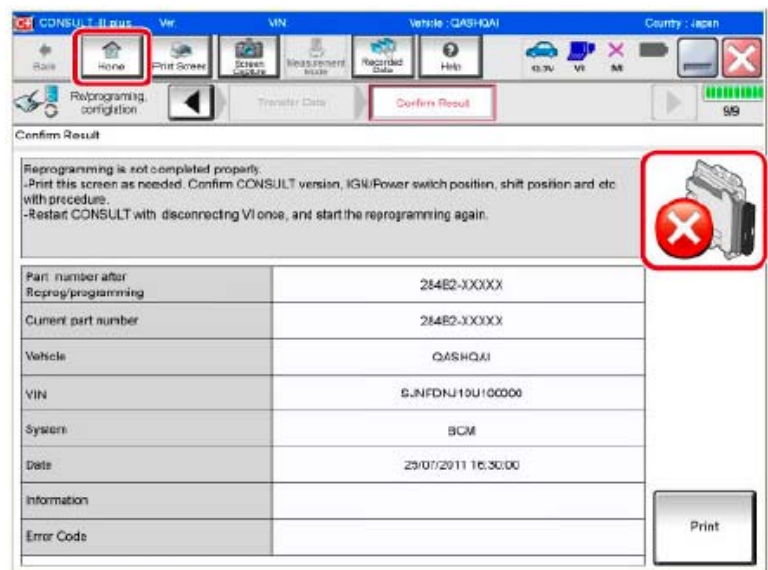


Figure 8

11. Follow the on-screen instructions to perform the following:

- **Throttle Valve Closed Position**
- **Idle Air Volume Learn (IAVL)**

NOTE:

- **Listed below are the conditions required for IAVL to complete.**
- **If IAVL does not complete within a few minutes, a condition may be out of range.**
 - Engine coolant temperature: 70 -105° C (158 - 221°F)
 - Battery voltage: More than 12.9V (At idle)
 - Selector lever: P or N
 - Electric load switch: OFF (Air conditioner, headlamp, rear window defogger)
 - Steering wheel: Neutral (Straight-ahead position)
 - Vehicle speed: Stopped
 - Transmission: Warmed up (ATF TEMP SE less than 0.9V)
- **Accelerator Pedal Close Position Learning**
- **Erase DTCs**

Continue to the next page.

12. When the entire reprogramming process is complete, the screen in Figure 9 will display.
13. Verify the before and after part numbers are different.
14. Print a copy of this screen (Figure 9) and attach it to the repair order for warranty documentation.
15. Select **Confirm**.

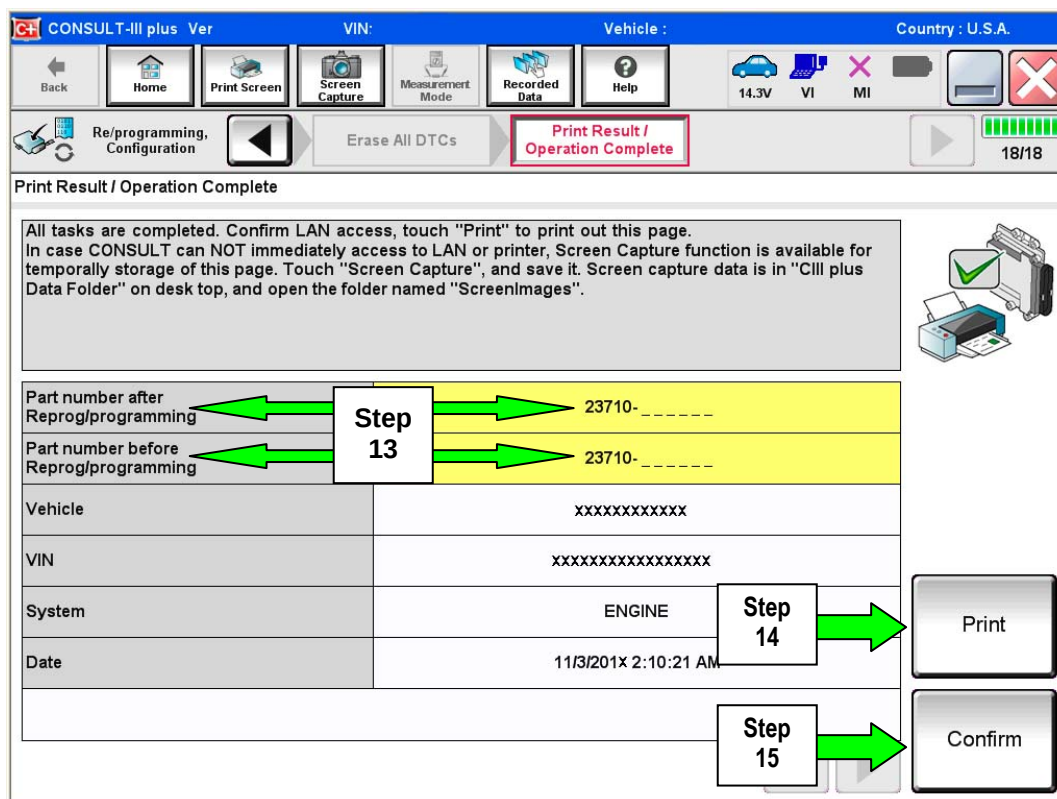


Figure 9

16. Return C-III plus to the home screen.
17. Turn the ignition OFF.
18. Disconnect the plus VI from the vehicle.
19. Go to Air Fuel (A/F) Sensor Replacement on the next page.

Air Fuel (A/F) Sensor Replacement

1. If needed, replace A/F Sensor(s).

a. Refer back to your notes from Check Air Fuel (A/F) Sensor Adjustment on page 6.

- If **A/F ADJ-B1** value was out of specification, replace Bank 1 A/F sensor (bank 1 is toward the rear of the vehicle).
- If **A/F ADJ-B2** value is out of specification, replace Bank 2 A/F sensor (bank 2 is toward the front of the vehicle).

NOTE: Replace A/F sensor(s) only if value was out of specification.

b. Refer to the Service Manual for A/F Sensor replacement information.

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
A/F Sensor (Bank 1 or Bank 2)	22693 - 1MR0A	Max. 2

NOTE: Most vehicles serviced under this campaign will not require new sensors. Expected usage will be only 5% of serviced vehicles.

CLAIMS INFORMATION

Submit a “CM” line claim using the following claims coding:

“CM” I.D.: PC185

CAMPAIGN ID	DESCRIPTION	OP CODE	FRT
PC185	Check A/F Sensor and Reprogram ECM	PC1850	0.4 hrs

CAMPAIGN ID	DESCRIPTION	OP CODE	FRT
PC185	Check A/F Sensor, Reprogram ECM and Replace One A/F Sensor	PC1851	0.8 hrs

CAMPAIGN ID	DESCRIPTION	OP CODE	FRT
PC185	Check A/F Sensor, Reprogram ECM and Replace Two A/F Sensor	PC1852	1.0 hrs

OWNER'S LETTER

For California owners

Dear Infiniti JX Owner:

Infiniti has discovered that your model year 2013 JX is equipped with an improper calibration that may in some situations illuminate a Malfunction Indicator Light (MIL). The cause is a calibration error which can improperly supply power to the downstream Air-Fuel (A/F) sensor heater circuit during engine off diagnostics. This has no effect on vehicle fuel consumption or safety. Drivability and performance may in rare circumstances be temporarily affected.

You should also be aware that if a MIL occurs and your vehicle is not repaired it will fail a Smog Check test in those areas of California where such testing is required under state law.

What Infiniti Will Do

To correct this condition, Infiniti is conducting a Voluntary Service Campaign to reprogram the Engine Control Module (ECM) in your vehicle. Any affected A/F sensors will also be replaced. This free service should take about one hour to complete, but your Infiniti dealer may require your vehicle for a longer period of time based upon their work schedule.

To ensure the least inconvenience for you, it is important that you have an appointment before bringing your vehicle to the dealer for service.

Your vehicle is eligible for this free service regardless of whether non-original parts were used for previous service and repairs, or if the service was performed by a repair facility other than a Infiniti dealer.

What You Should Do

Contact your Infiniti dealer at your convenience in order to arrange an appointment to have your vehicle repaired. Please bring this notice with you when you keep your service appointment. Instructions have been sent to your Infiniti dealer.

If the retailer fails, or is unable to complete the modifications free of charge, you may contact the National Consumer Affairs Department, Infiniti Division, Nissan North America, Inc., P.O. Box 685003, Franklin, TN 37068-5003. The toll free number is 1-800-662-6200.

Thank you for your cooperation. We are indeed sorry for any inconvenience this may cause you.

For non-California owners

Dear Infiniti JX Owner:

Infiniti has discovered that your model year 2013 JX is equipped with an improper calibration that may in some situations illuminate a Malfunction Indicator Light (MIL). The cause is a calibration error which can improperly supply power to the downstream Air-Fuel (A/F) sensor heater circuit during engine off diagnostics. This has no effect on vehicle fuel consumption or safety. Drivability and performance may in rare circumstances be temporarily affected.

What Infiniti Will Do

To correct this condition, Infiniti is conducting a Voluntary Service Campaign to reprogram the Engine Control Module (ECM) in your vehicle. Any affected A/F sensors will also be replaced. This free service should take about one hour to complete, but your Infiniti dealer may require your vehicle for a longer period of time based upon their work schedule.

What You Should Do

Contact your Infiniti dealer at your convenience in order to arrange an appointment to have your vehicle repaired. Please bring this notice with you when you keep your service appointment. Instructions have been sent to your Infiniti dealer.

If the retailer fails, or is unable to complete the modifications free of charge, you may contact the National Consumer Affairs Department, Infiniti Division, Nissan North America, Inc., P.O. Box 685003, Franklin, TN 37068-5003. The toll free number is 1-800-662-6200.

Thank you for your cooperation. We are indeed sorry for any inconvenience this may cause you.

