

Classification:

EL11-009a

Reference:

ITB11-025a

COPYRIGHT© NISSAN NORTH AMERICA, INC.

Date:

December 14, 2012

2011 - 2013 M; BATTERY LOW VOLTAGE / NO START

This bulletin has been amended in the following areas; APPLIED VEHICLES, IF YOU CONFIRM and ACTION, and the SERVICE PROCEDURE. Please discard all previous versions of this bulletin.

APPLIED VEHICLES: 2011 - 2013 M37and M56 (Y51)

APPLIED VINs and

DATES: All 2WD V6 models built before: JN1BY1AP(*)DM512524 and October 5, 2012

All AWD V6 models built before: JN1BY1AR(*)DM602275 and October 5, 2012

All 2WD V8 models built before: JN1AY1AP(*)DM540099 and October 5, 2012

All AWD V8 models built before: JN1AY1AR(*)DM590100 and October 5, 2012

NOTE: This bulletin does not apply to M Hybrid (HY51).

IF YOU CONFIRM:

An Applied Vehicle has a "battery low voltage" or "no start condition".

NOTE: A battery low voltage condition may cause an engine "no crank" or "no start" condition.

ACTION:

1. Confirm this bulletin applies (see the Repair Overview flowchart on page 3).
2. If this bulletin applies, use the Repair Overview flowchart on page 3 to determine which repair procedures to apply to your vehicle.

NOTE:

- If this bulletin was performed prior to the current amended version, it is strongly recommended to follow through the Repair Overview again, and then perform all repairs that apply i.e. check for / perform ECM reprogramming.
 - Repairs have been enhanced in this amended bulletin over those in the previous version.

IMPORTANT: The purpose of ACTION (above) is to give you a quick idea of the work you will be performing. You **MUST** closely follow the entire Repair Overview as it contains information that is essential to successfully completing this repair.

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.

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
Battery (GR24-series)	999M1-QC24F	1 (if needed)

CLAIMS INFORMATION

Submit a Primary Part (PP) type line claim using the following claims coding.

For ECM reprogramming

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram ECM	(1)	DE97AA	ZE	32	(2)

(1) Use C-III plus to obtain the current ECM Part Number from the vehicle and use it as the PFP.

(2) Reference the current Infiniti Warranty Flat Rate Manual and use the indicated flat rate time.

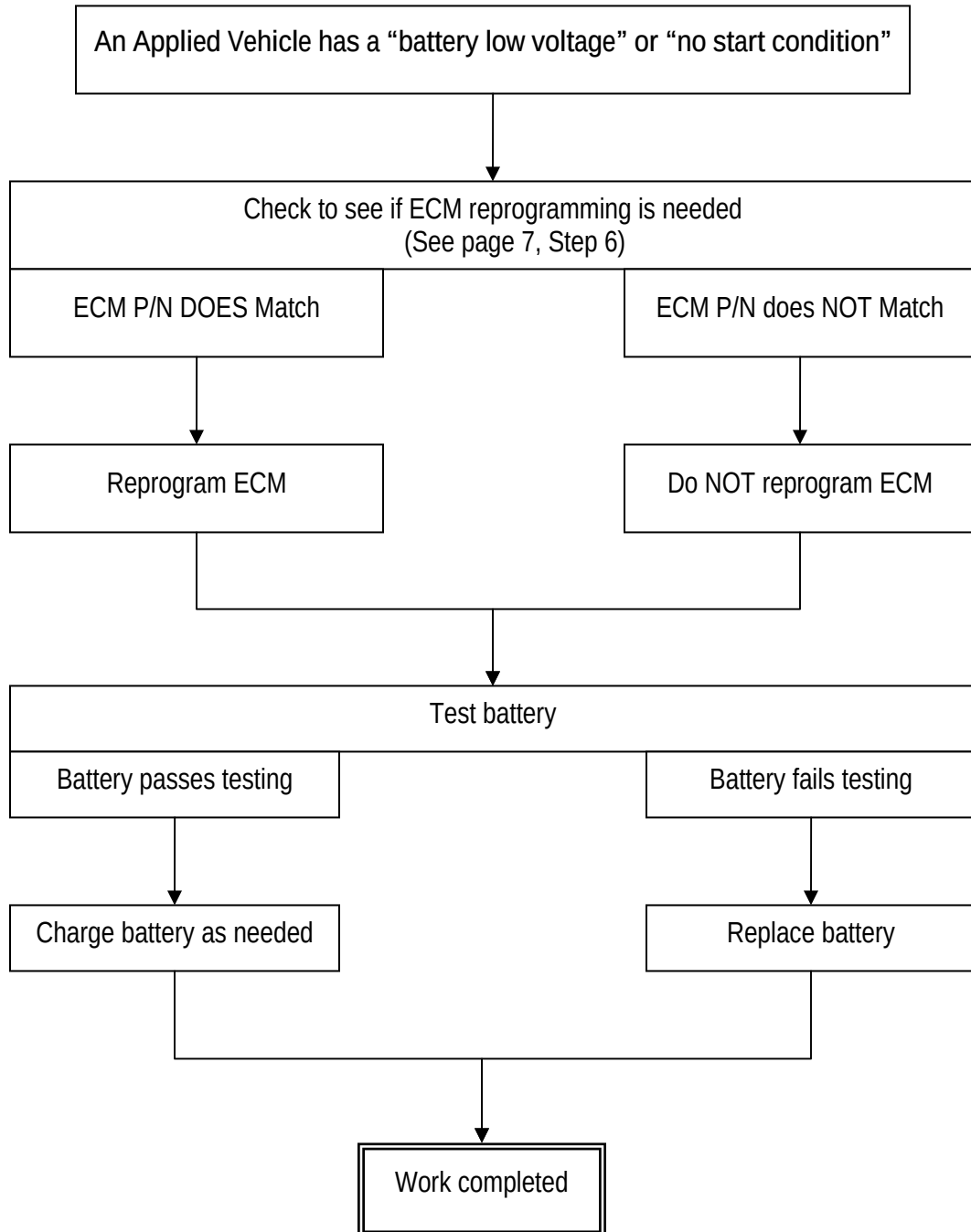
AND if needed

On the same repair line

DESCRIPTION	OP CODE	FRT
TEST & CHARGE BATTERY	GB18AA	(1)
ADD TO GB18AA FOR RPL BATTERY	GB181A	(1)

(1) Reference the current Infiniti Warranty Flat Rate Manual and use the indicated flat rate time.

Repair Overview



SERVICE PROCEDURE

- 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

- 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 A

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.

1. Connect the CONSULT PC to the vehicle to begin the reprogramming procedure.
2. Open ASIST on the CONSULT PC and start C-III plus.
3. Wait for the plus VI to be recognized / connected.
 - The serial number will display when the plus VI is recognized / connected.
4. Select Re/programming, Configuration.

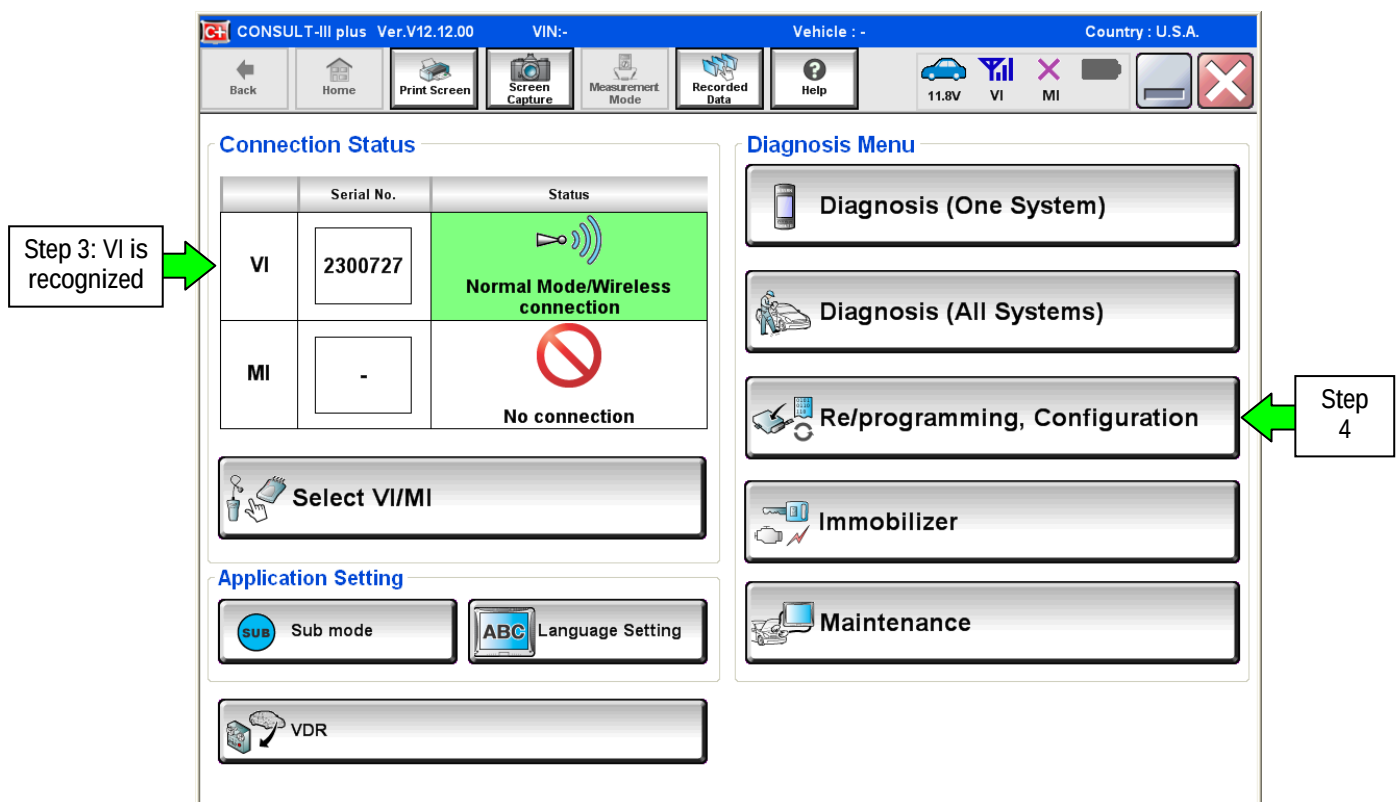


Figure 1

5. Follow the C-III plus on-screen instructions and navigate to the screen shown in Figure 2 on the next page.

IMPORTANT:

While navigating C-III plus, if the screen in Figure 1A displays, select Delete, and then Other Operation.

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
Operation	REPROGRAMMING												
System	ENGINE												
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 1A

6. When you get to the screen shown in Figure 2, 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 2

B. Compare the Part Number you wrote down to the numbers in the Current ECM P/N columns in Table A (see next page).

- If there is a match in Table A, continue with the ECM reprogramming procedure only.
 - For 2011 M56 only, see NOTE below.

NOTE:

- Before performing ECM reprogramming, refer to ITB10-040 (2011 M56 Air Fuel Ratio Sensor-Voluntary Service Campaign).
 - ITB10-040 will instruct you to check Service Comm for campaign eligibility.
 - If this campaign applies to your vehicle, perform the campaign first.
 - The reprogramming contained in ITB10-040 (if applicable to your vehicle) will satisfy the ECM reprogramming need for this bulletin.
- If there is not a match in Table A, skip to page 14, BATTERY TESTING AND FINAL PROCESSES.

Table A

Model	Current ECM P/N: 23710 -
2011 M37	1MA0A, 1MA1A, 1MA2A, 1MA3A, 1MA4A, 1MA5A, 1MA6A, 1MA7A, 1MA8A, 1MA9A
	1MA0B, 1MA1B, 1MA2B, 1MA3B, 1MA4B, 1MA5B, 1MA6B, 1MA7B, 1MA8B, 1MA9B
	1MA0C, 1MA1C, 1MA2C, 1MA3C, 1MA4C, 1MA5C, 1MA7C, 1MA8C, 1MA9C
	1MA0D, 1MA1D, 1MA2D, 1MA3D, 1MA4D, 1MA5D, 1MA8D, 1MA9D
	1MA1E, 1MA2E, 1MA3E, 1MA4E, 1MA5E
	1MB7A, 1MB8A, 1MB9A
	1MB7B, 1MB8B, 1MB9B
	1MB7C, 1MB8C, 1MB9C
	1MB7D, 1MB8D, 1MB9D
2011 M56	1MP4A, 1MP5A, 1MP6A, 1MP7A, 1MP8A, 1MP9A
	1MP4B, 1MP5B, 1MP6B, 1MP7B, 1MP8B, 1MP9B
	1MP4C, 1MP5C, 1MP6C, 1MP7C, 1MP8C, 1MP9C
	1MX0A, 1MX1A, 1MX2A, 1MX3A, 1MX4A, 1MX5A
	1MX0B, 1MX1B, 1MX2B, 1MX3B, 1MX4B, 1MX5B
	1MX0C, 1MX1C, 1MX2C, 1MX3C, 1MX4C, 1MX5C
	1MX0D, 1MX1D, 1MX2D, 1MX3D, 1MX4D, 1MX5D
	1MX0E, 1MX1E, 1MX2E, 1MX3E, 1MX4E, 1MX5E
2012 M37	1MV0A, 1MV1A, 1MV2A, 1MV3A, 1MV4A, 1MV5A
	1MV0B, 1MV1B, 1MV2B, 1MV3B, 1MV4B, 1MV5B
	1MV0C, 1MV1C, 1MV2C, 1MV3C, 1MV4C, 1MV5C
	1MV0D, 1MV1D, 1MV2D, 1MV3D, 1MV4D, 1MV5D
2012 M56	1MK0A, 1MK1A, 1MK2A, 1MK3A, 1MK4A, 1MK5A
	1MU0A, 1MU1A, 1MU2A, 1MU3A, 1MU4A, 1MU5A
	1MU0B, 1MU1B, 1MU2B, 1MU3B, 1MU4B, 1MU5B
	1MU0C, 1MU1C, 1MU2C, 1MU3C, 1MU4C, 1MU5C
	1MU0D, 1MU1D, 1MU2D, 1MU3D, 1MU4D, 1MU5D
	1MU0E, 1MU1E, 1MU2E, 1MU3E, 1MU4E, 1MU5E
2013 M37	1PR0A, 1PR1A, 1PR2A, 1PR3A, 1PR4A, 1PR5A
2013 M56	1MT0A, 1MT1A, 1MT2A, 1MT3A, 1MT4A

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 3 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.

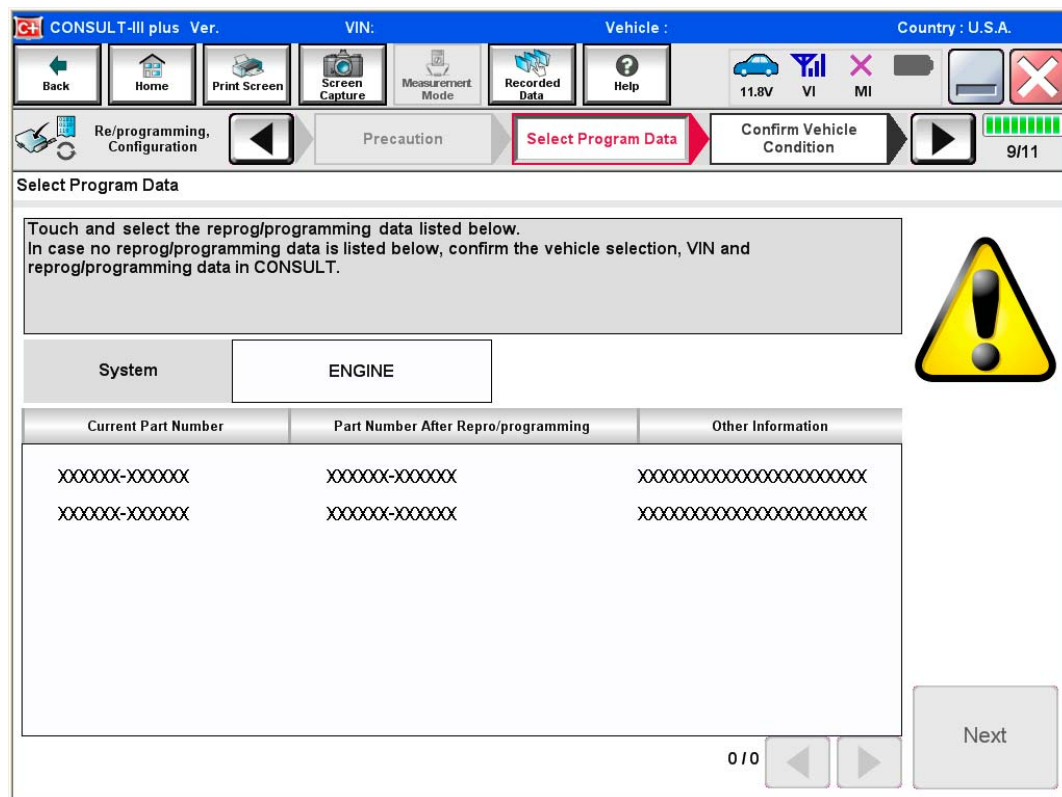


Figure 3

8. When the screen in Figure 4 displays, reprogramming is complete.

NOTE: If the screen in Figure 4 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.

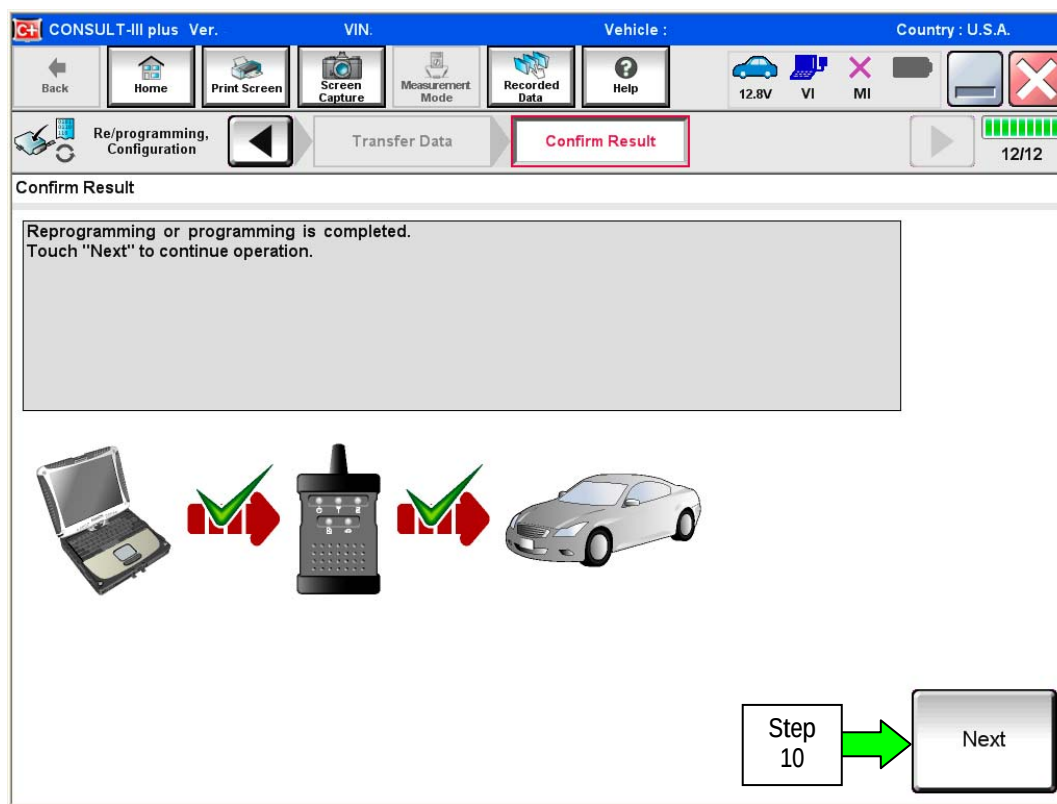


Figure 4

NOTE:

- In the next steps (page 12), 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 5:

- 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.

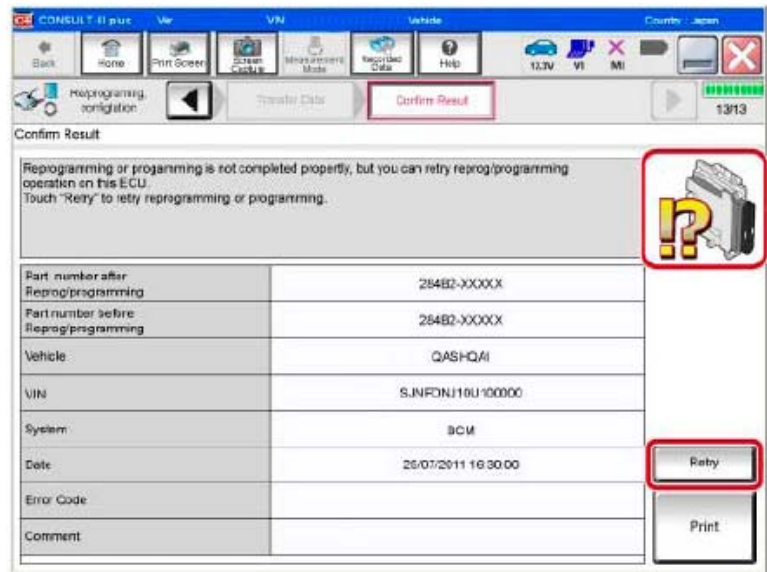


Figure 5

If reprogramming does not complete and the “X” icon displays as shown in Figure 6:

- 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.

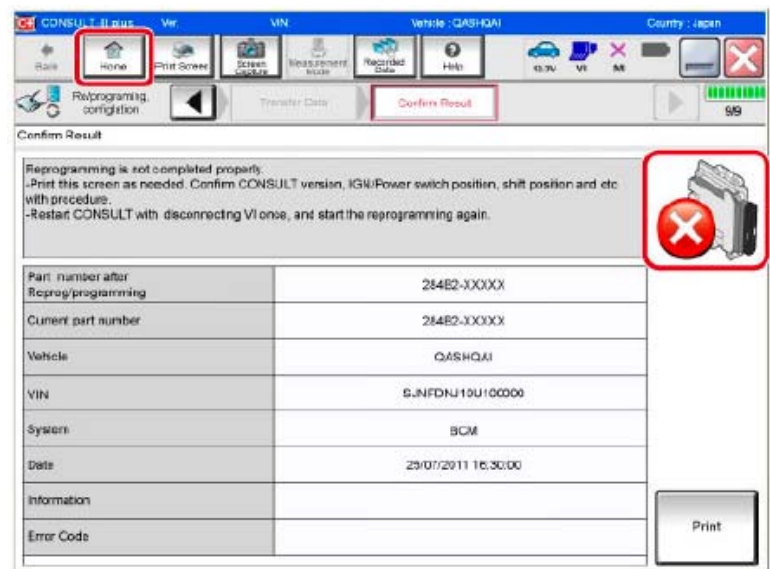


Figure 6

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 7 will display.
13. Verify the before and after part numbers are different.
14. Print a copy of this screen (Figure 7) and attach it to the repair order for warranty documentation.
15. Select Confirm.

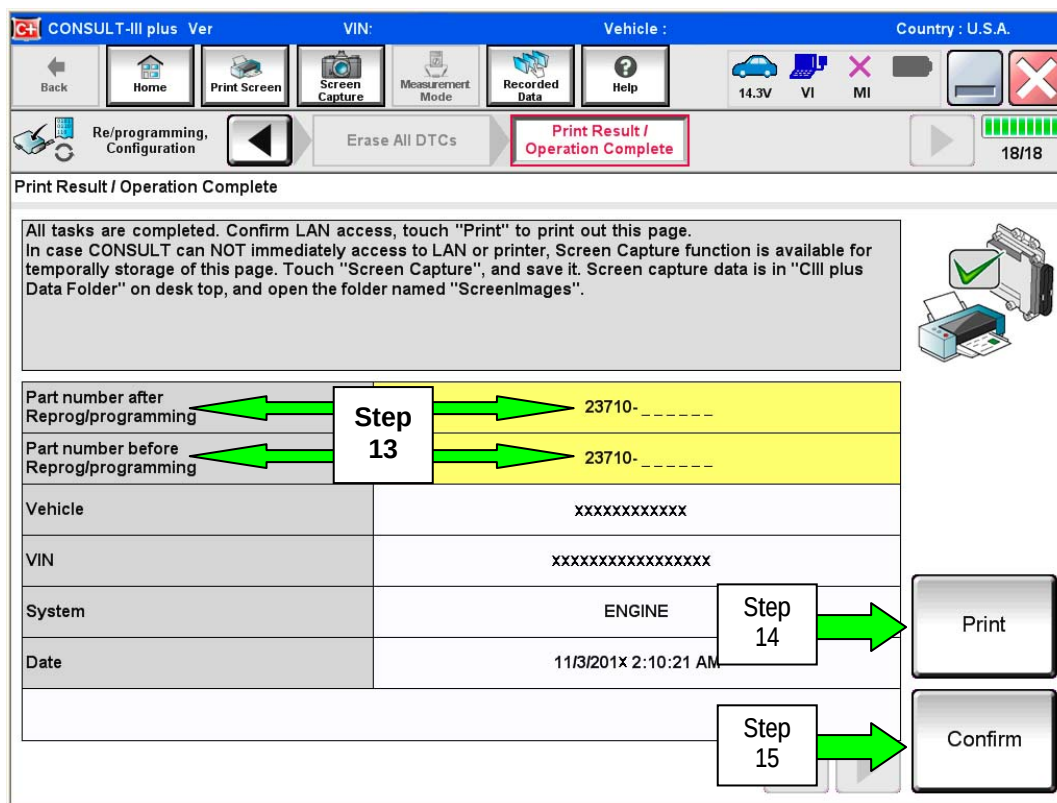


Figure 7

16. Close C-III plus.
17. Turn the ignition OFF.

Continue to the next page.

BATTERY TESTING AND FINAL PROCESSES

1. Test the battery with the GR8 Multitasking Battery Diagnostic Station (battery tester).
 - If the battery passes testing, charge the battery if required by the battery tester.
 - If the battery does not pass testing, replace it with the one listed in PARTS INFORMATION.
 - Make sure the replacement battery is fully charged and ready for service before releasing the vehicle to the customer.
 - Reset / Re-initialize the Clock, Radio Presets, Power Windows, etc. (Refer to ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL in the GI section of the ESM for details).
2. Test drive the vehicle. Make sure it operates correctly and the MIL is OFF.
 - If the MIL comes ON, refer to ASIST and / or the ESM for further diagnostic information.
 - Diagnosis and repairs beyond the ones described in the Repair Overview are not covered by this bulletin.

