SERVICE BULLETIN

Classification:	Reference:	Date:
EC12-04	NTB12-087	October 3, 2012

2009-2010 FRONTIER, XTERRA, AND PATHFINDER; CRUISE CONTROL INTERMITTENTLY TURNS OFF

APPLIED VEHICLES: 2009 – 2010 Frontier (D40)
2009 – 2010 Xterra (N50)
2009 – 2010 Pathfinder (R51)

APPLIED ENGINE: VQ40 **ONLY**

IF YOU CONFIRM:

The cruise control turns off without pressing the brake pedal or using the cruise control switches while driving with the cruise control set.

ACTION:

1. Refer to step 6 in the **SERVICE PROCEDURE** to confirm this bulletin applies to the vehicle you are working on.

2. If this bulletin applies, reprogram the ECM.

CLAIMS INFORMATION

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

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

(1) Reference the Repair Order and use the **current** ECM P/N written down in step 2 of the Service Procedure as the PFP.
(2) Reference the current Nissan Warranty Flat Rate Manual and use the indicated FRT.

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 **SERVICE PROCEDURE** as it contains information that is essential to successfully completing this repair.

SERVICE PROCEDURE

NOTE:

- 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) ECM Reprogramming" general procedure.

- 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

- After reprogramming is complete, you will be required to perform Throttle Valve Closed Position, Idle Air Volume Learn, Accelerator Closed Position, and DTC erase.

CAUTION:

- Connect a battery charger to the vehicle battery.
  If the vehicle battery voltage drops below 12.0V or above 15.5V during reprogramming, 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.

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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.

   - Serial number will display when the plus VI is recognized / connected.

4. Select **Re/programming, Configuration**.
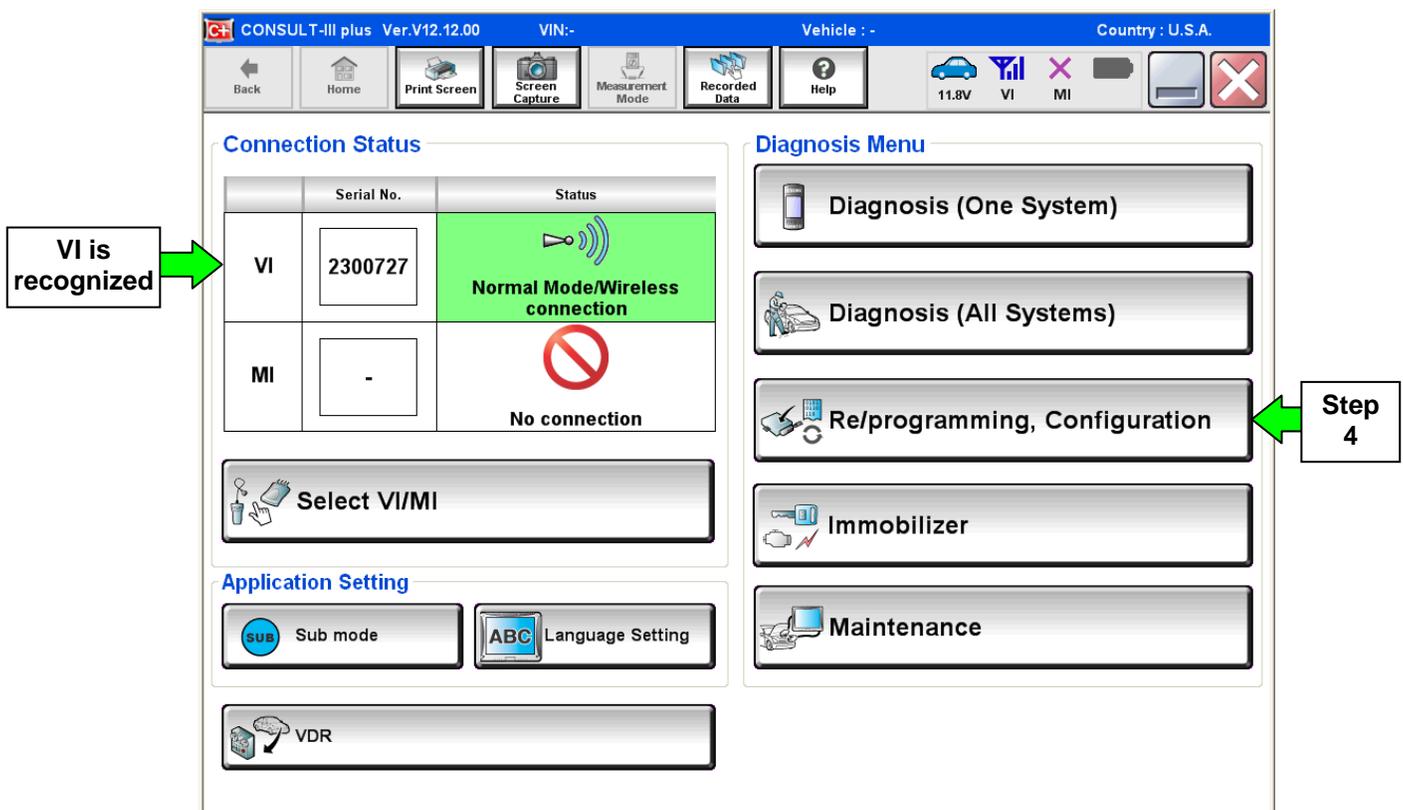
Figure 1

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

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 <u>current</u> ECM Part Number (P/N).
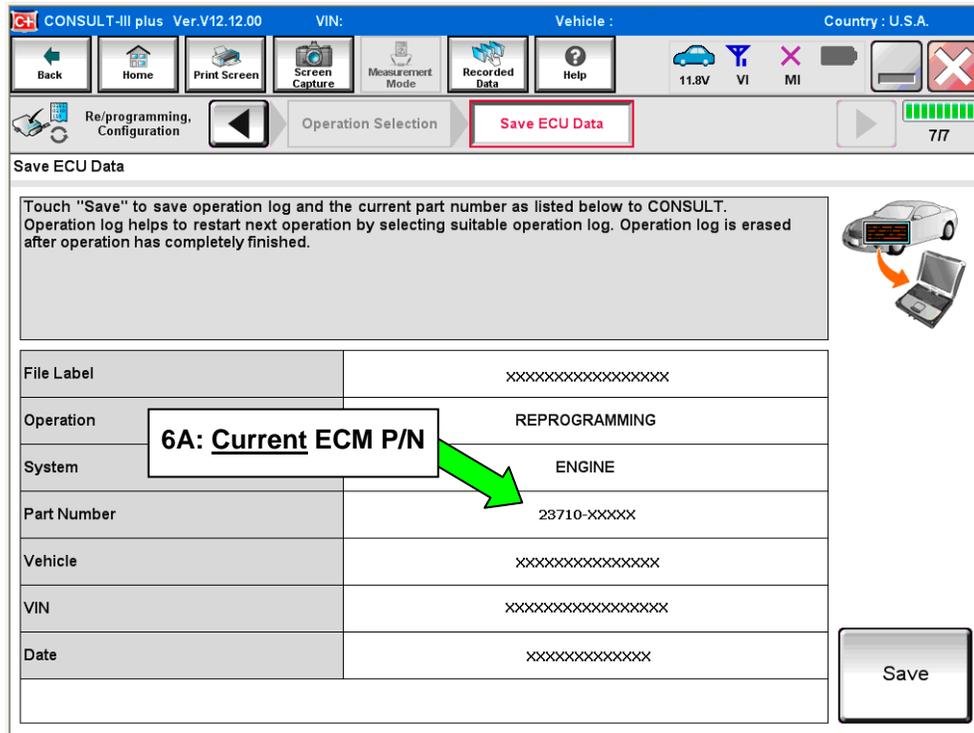
Figure 2

   B. Compare the P/N you wrote down to the numbers in the **Current ECM Part Number** column in **Table A** on page 5.

   - If there is a <u>match</u>, this bulletin <u>applies</u>. Continue with the reprogramming procedure.

   - If there is <u>not a match</u>, this bulletin <u>does not apply</u>. Close C-III plus and refer to ASIST for further diagnostic information.

Table A

Model Year	Model	Current ECM Part Number: 23710-
2009	Pathfinder (R51)	ZL08A, ZL08B, ZL08C, ZL08D
		ZL12A, ZL13A
		ZL34A, ZL35A
	Frontier (D40) VQ35	ZL00A, ZL00C
		ZL01A, ZL01B, ZL01C, ZL01D
		ZL02A, ZL02C
		ZL03A, ZL03B, ZL03C, ZL03D
		ZL04A, ZL04C
		ZL05A, ZL05B, ZL05C, ZL05D
		ZL06A, ZL06C
		ZL07A, ZL07B, ZL07C, ZL07D
		ZL30A, ZL31A, ZL32A, ZL33A
		ZL60A, ZL61A, ZL62A, ZL63A, ZL64A, ZL65A ZL66A, ZL67A
	Xterra (N50)	ZL00A, ZL00C
		ZL02A, ZL02C
		ZL04A, ZL04C
		ZL06A, ZL06C
		ZL30A, ZL31A, ZL32A, ZL33A
2010	Pathfinder (R51)	ZL92A, ZL93A, ZL94A, ZL95A
		ZL92B, ZL93B, ZL94B, ZL95B
	Frontier (D40) VQ35	ZZ70A, ZZ73A, ZZ75A, ZZ76A, ZZ79A
		ZZ70B, ZZ73B, ZZ75B, ZZ76B
		ZZ81A, ZZ82A, ZZ83A, ZZ84A, ZZ85A, ZZ87A ZZ88A, ZZ89A
		ZZ82B, ZZ85B, ZZ88B
		ZL44A, ZL45A, ZL47A
	Xterra (N50)	ZZ70A, ZZ73A, ZZ76A, ZZ79A, ZZ82A, ZZ85A, ZZ88A
		ZZ70B, ZZ73B, ZZ76B, ZZ82B, ZZ85B, ZZ88B
		ZL45A

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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 NTBXX-XXX".

- If you get this screen and it is <u>blank</u> (no reprogramming listed), it means there is no reprogramming available for this vehicle. Close C-III plus and refer back to ASIST for further diagnosis.
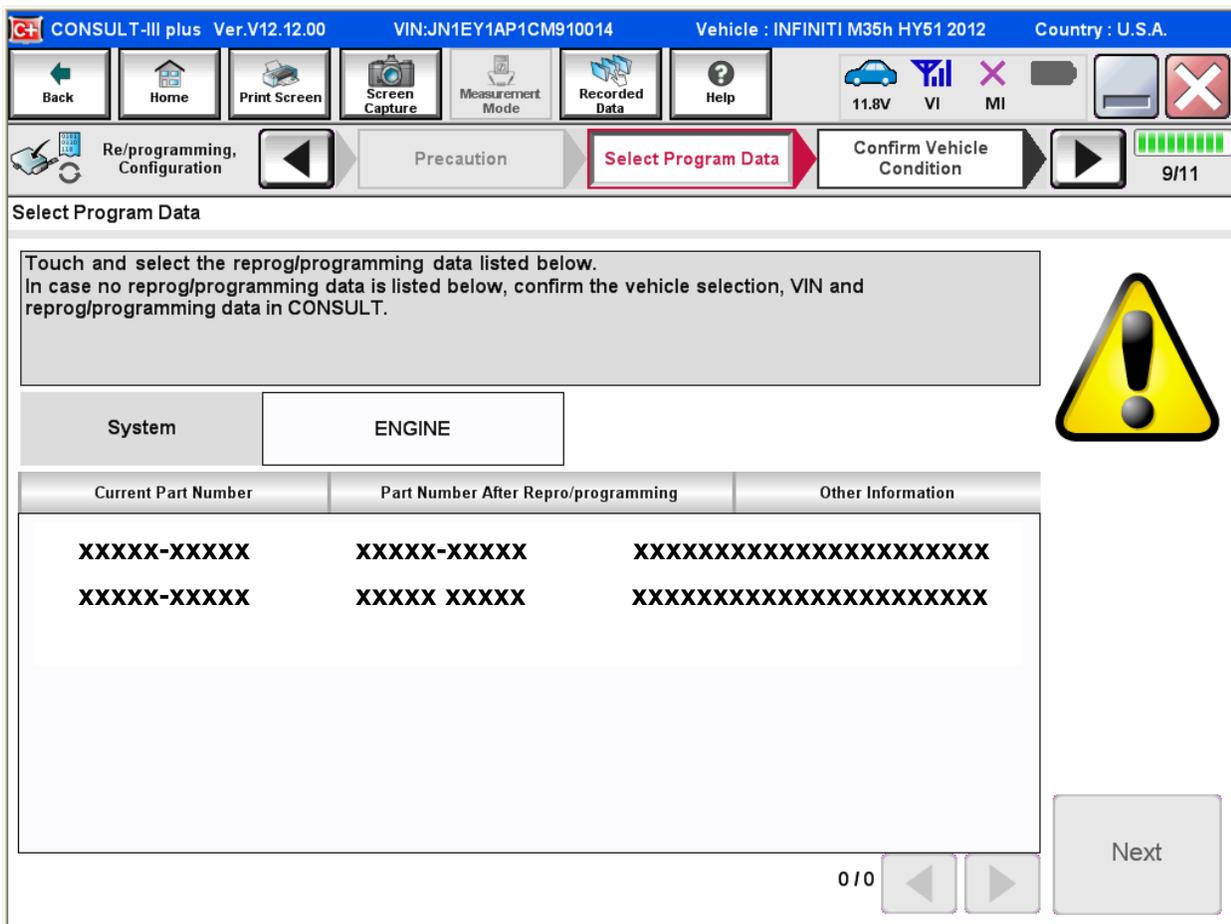
Figure 3

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

9. Disconnect the battery charger from the vehicle.

10. Select **Next**.
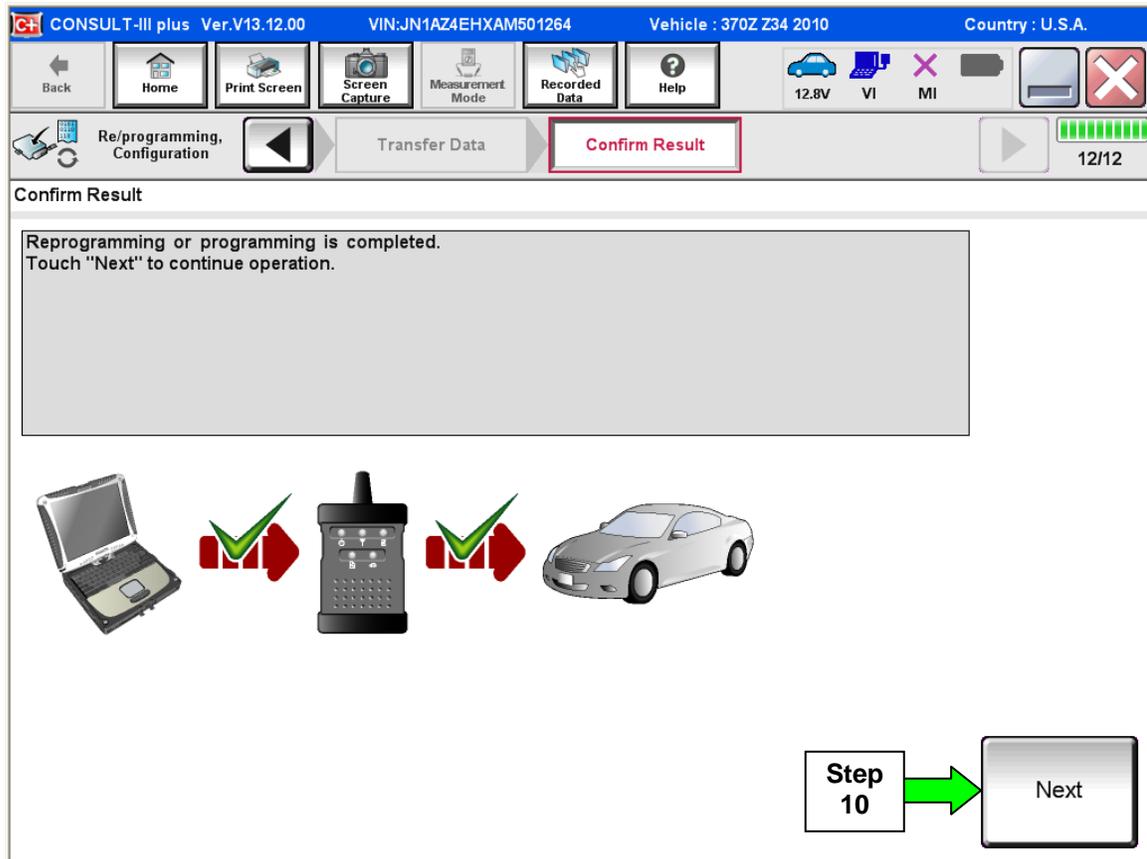
Figure 4

CAUTION: If reprogramming does <u>not</u> complete and the **!?** displays as shown in Figure 5 on page 8:

- Check battery voltage (12.0 – 15.5V).
- Ignition is ON, engine is OFF.
- External Bluetooth® devices are OFF
- All electrical loads are OFF.
- **Select <u>retry</u> and follow the on screen instructions.**
- <u>Retry may not go through on first attempt and can be selected more than once.</u>
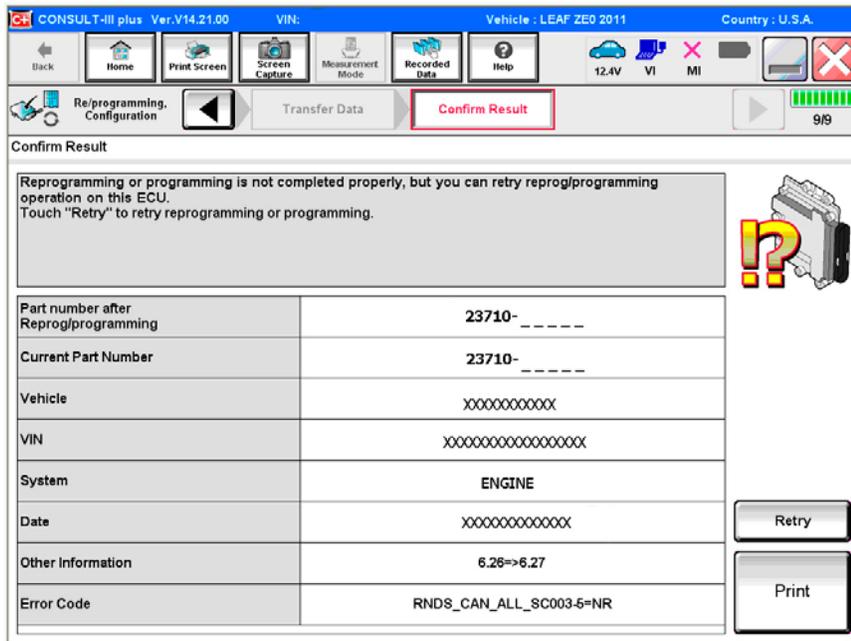
Figure 5

OR: If reprogramming does <u>not</u> complete and the **X** displays as shown in Figure 6:

<u>Do not disconnect VI or shut down Consult III plus if reprogramming does not complete.</u>

- Check battery voltage (12.0 – 15.5V).
- CONSULT A/C adapter is plugged in.
- Ignition is ON, engine is OFF.
- Transmission in Park
- All C-III plus / VI cables are securely connected.
- All C-III plus updates are installed.
- **Select <u>Home</u>, and restart the reprogram procedure from the beginning.**
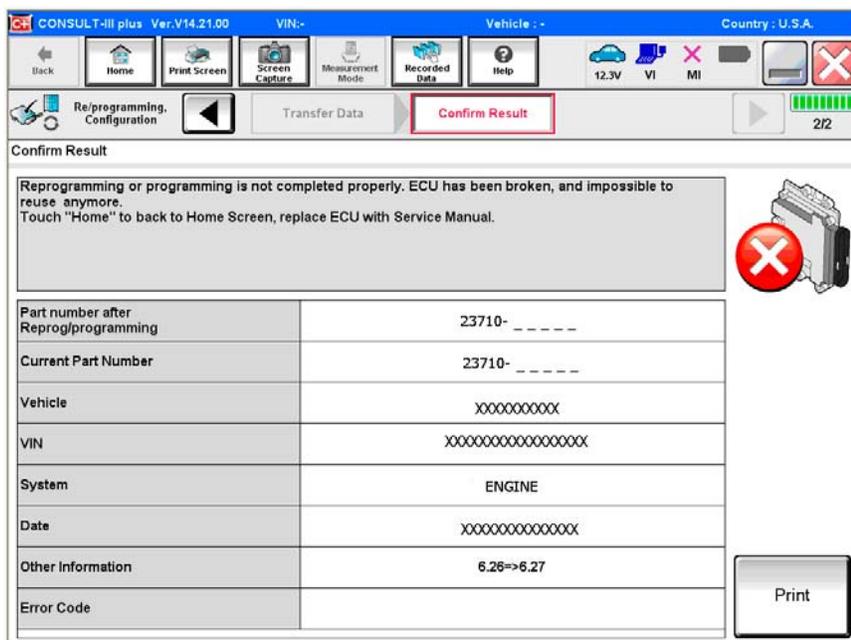
Figure 6

NOTE:

- In the next steps, 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.

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

- **Throttle Valve Closed Position**

- **Idle Air Volume Learn (IAVL)**

   NOTE:

   o **Listed below are common conditions required for IAVL to complete.**

   o **If IAVL does not complete within a few minutes, a condition may be out of range.**

   o **Refer to the appropriate Electronic Service Manual (ESM) for specific conditions required for the vehicle you are working on.**

   - Engine coolant temperature: 70 -100° C (158 - 212°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

- **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**.
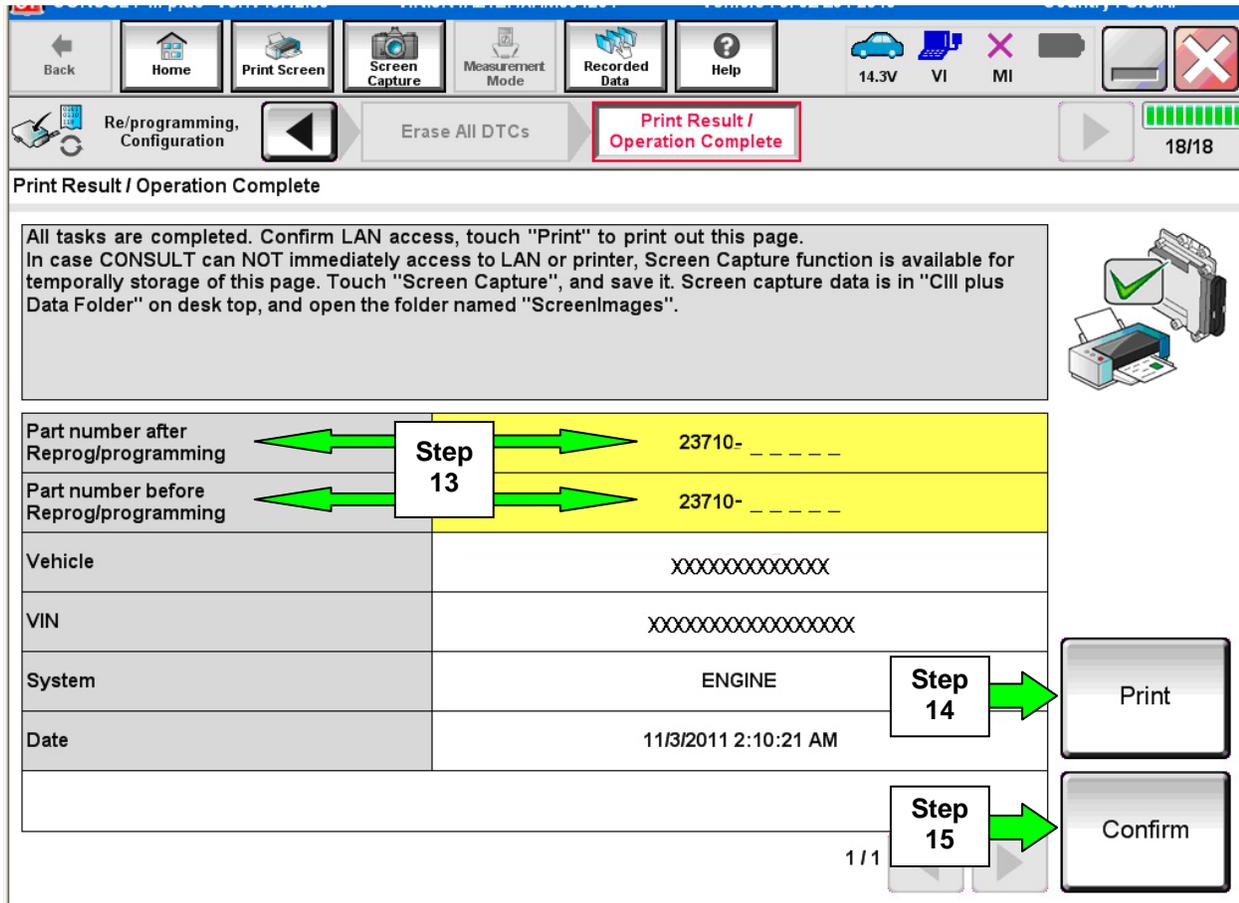
Figure 7

16. Close C-III plus.

17. Turn the ignition OFF.

18. Disconnect the plus VI from the vehicle.

19. Test drive the vehicle and make sure it operates correctly and the MIL is OFF.
    - If the MIL comes ON, go back to ASIST for further diagnostic information.
    - Diagnosis and repairs beyond ECM reprogramming are not covered by this bulletin.