



SERVICE BULLETIN

Classification: EC13-003b	Reference: NTB13-021b	Date: March 9, 2017
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2010-2015 FRONTIER, 2010-2012 PATHFINDER AND XTERRA; VIBRATION WHILE IDLING

This bulletin has been amended to add 2013-2015 Frontier and additional steps for that model range. Please discard the previous version of this bulletin.

- APPLIED VEHICLES:** 2010 – 2015 Frontier (D40)
2010 – 2012 Pathfinder (R51)
2010 – 2012 Xterra (N50)
- APPLIED VIN / DATE:** 2010 – 2014 Frontier **All**
2015 Frontier
built before 1N6AD0(*)(*)(*)FN 728374 / Nov 3, 2014
2010 – 2012 Pathfinder **All**
2010 – 2012 Xterra **All**
- APPLIED ENGINE:** VQ40DE V6
- APPLIED TRANSMISSION:** RE5R05A automatic

IF YOU CONFIRM:

- The idle seems low or the idle is rough.
- And
- No engine DTCs are stored.

ACTION:

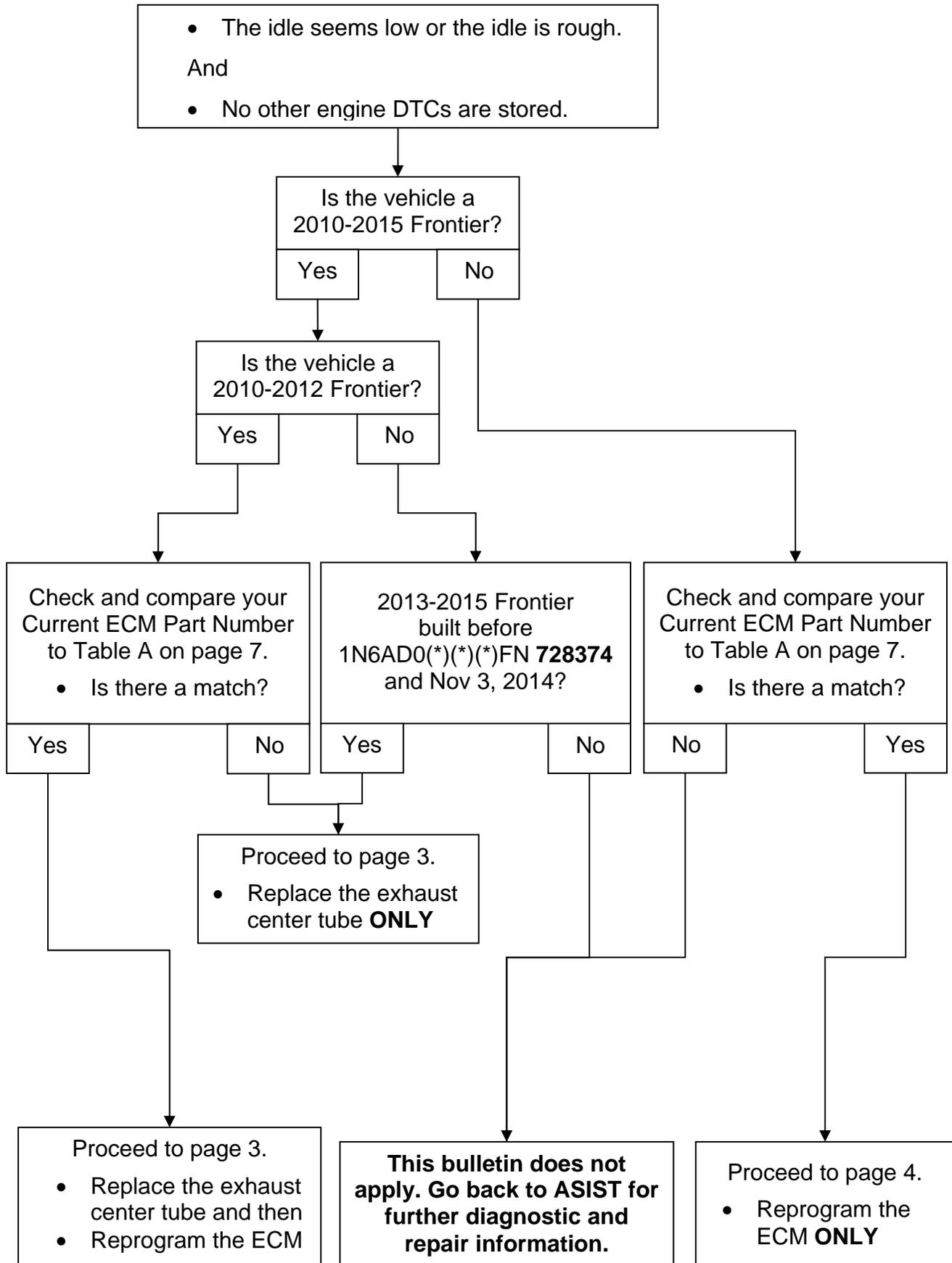
Refer to the Flow Chart on page 2 for the model specific Service Procedure.

IMPORTANT: Do NOT replace engine mounting insulators for this issue unless they are visually leaking.

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.

Nissan 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 Nissan dealer to determine if this applies to your vehicle.

Repair Overview



SERVICE PROCEDURE

Exhaust Center Tube Replacement

NOTE: Only replace the exhaust center tube if required per the Flow Chart on page 2.

Replace the exhaust center tube (see Figure A).

- The **new** exhaust center tube (Figure B) is listed in the Parts Information.
- Refer to the Electronic Service Manual (ESM), section **EX – Exhaust System** for removal and installation information.

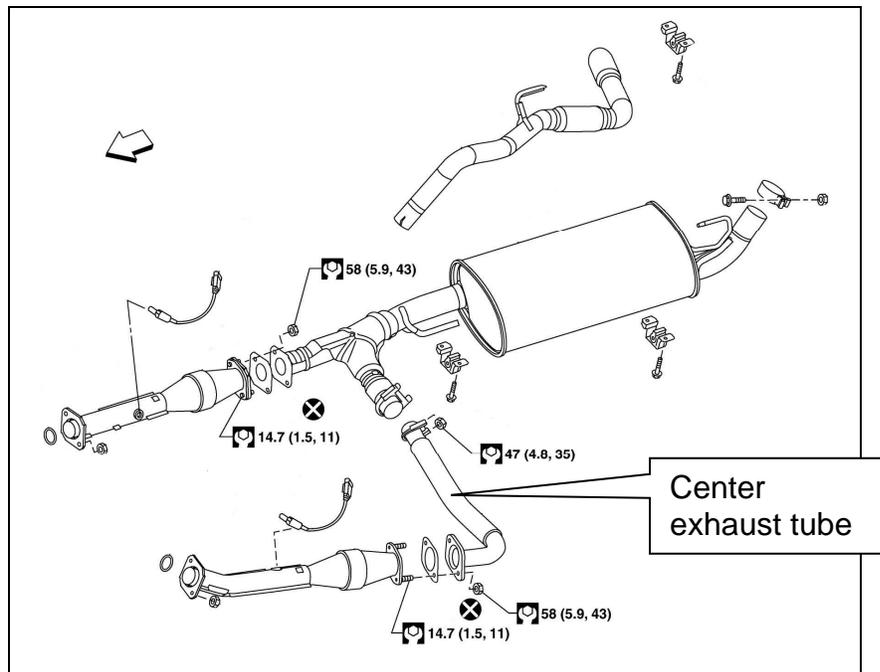


Figure A

⇨: Engine front

⊗: Always replace after every disassembly

⊙ : N•m (kg-m, ft-lb)

⊚ : N•m (kg-m, in-lb)

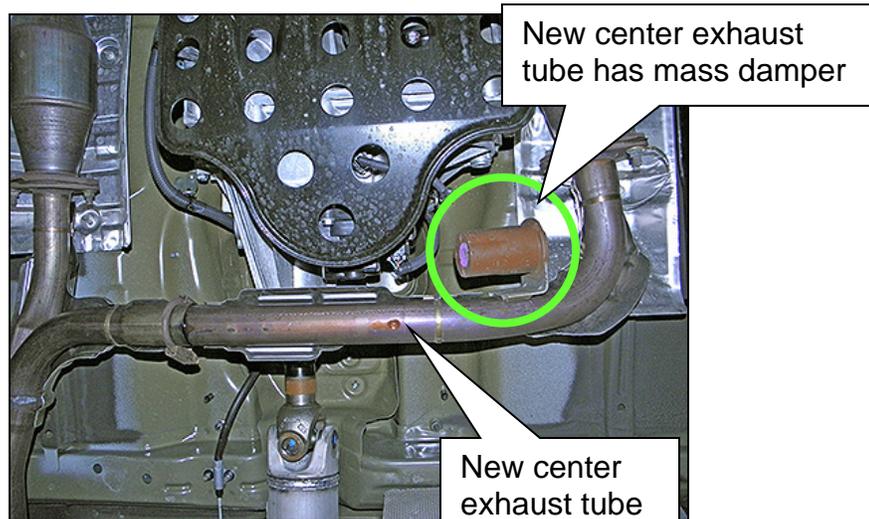


Figure B

NOTE: If required per the Flow Chart on page 2, go to ECM reprogramming on the next page.

ECM Reprogramming

NOTE:

- Only reprogram the ECM if required per the Flow Chart on page 2 and Table A on page 7.
- 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 C

- 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 the GR8 to the vehicle battery set to ECM power supply mode. If the vehicle battery voltage goes 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.

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**.

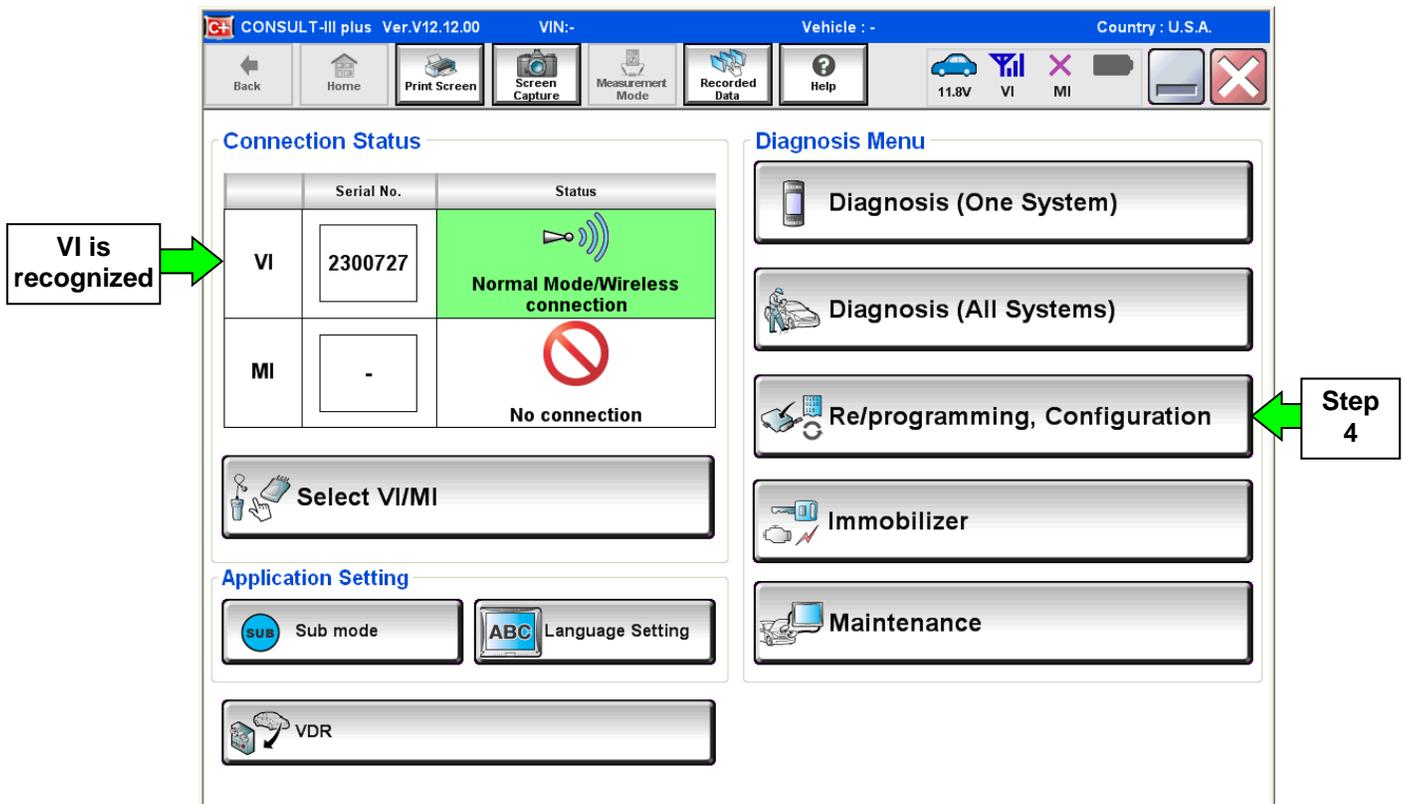


Figure 1

5. Follow the 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 current ECM Part Number (P/N).

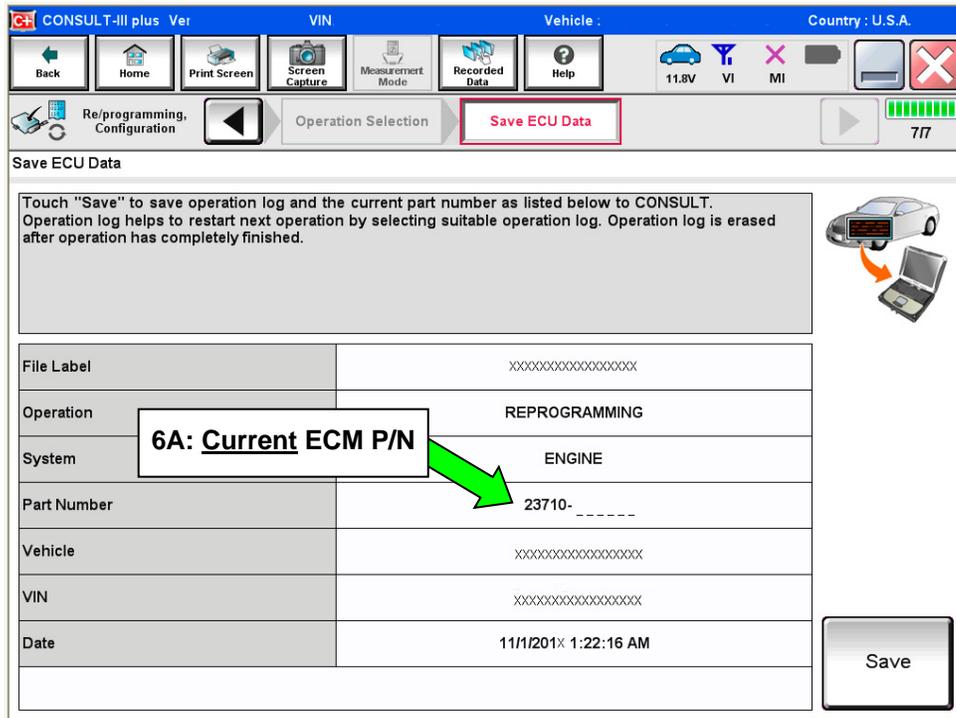


Figure 2

- B. Compare the P/N you wrote down to the numbers in the **Current ECM Part Number** column in **Table A** on the next page.
- If there is a match, this bulletin applies. Continue with the reprogramming procedure.
 - If there is not a match, reprogramming is not needed.

Table A

MODEL	MODEL YEAR	CURRENT ECM PART NUMBER BEFORE REPROGRAMMING: 23710-XXXXX
Pathfinder (R51)	2010	ZZ94C
		ZL95D, ZL95C, ZL95B, ZL95A
		ZL94D, ZL94B, ZL94A
		ZL93D, ZL93C, ZL93B, ZL93A
		ZL92D, ZL92C, ZL92B, ZL92A
	2011	ZL79A, ZL78A, ZL77A, ZL76A
	2012	9BE9B, 9BE9A
		9BD9B, 9BD9A
		9BE8B, 9BE8A
		9BD8B, 9BD8A
Frontier (D40)	2010	ZZ89A, ZZ89C
		ZZ88D, ZZ88C, ZZ88B, ZZ88A
		ZZ84C, ZZ84A
		ZZ83C, ZZ83A
		ZZ82D, ZZ82C, ZZ82B, ZZ82A
		ZZ76D, ZZ76C, ZZ76B, ZZ76A
		ZZ70D, ZZ70C, ZZ70B, ZZ70A
		ZL44C, ZL44A
	2011	ZL85A, ZL86A
		9BA7A, 9BA5A, 9BA2A, 9BA0A
		9CA2A, 9CA1A
		ZL73A, ZL72A
	2012	9CD2B, 9CD1B
		9CD2A, 9CD1A
		9BE5B, 9BE4B, 9BE1B, 9BE0B
		9BE5A, 9BE4A, 9BE1A, 9BE0A
		9BD5B, 9BD4B, 9BD1B, 9BD0B
9BD5A, 9BD4A, 9BD1A, 9BD0A		
Xterra (N50)	2010	ZZ82D, ZZ82C, ZZ82B, ZZ82A
		ZZ70D, ZZ70C, ZZ70B, ZZ70A
	2011	9BA0A, 9CA1A
	2012	9BE0B, 9BE0A
		9BD2B, 9BD2A
		9BD0B, 9BD0A

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 blank (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.

IMPORTANT: If C-III plus locks up or freezes at this point or displays “cannot complete reprogramming, CONSULT PC is set up with User Rights. Reprogramming can be completed with Administrator log in”, the TOUGHBOOK settings need to be changed so that Users have full access rights. See your Dealership’s IT System Administrator for details.

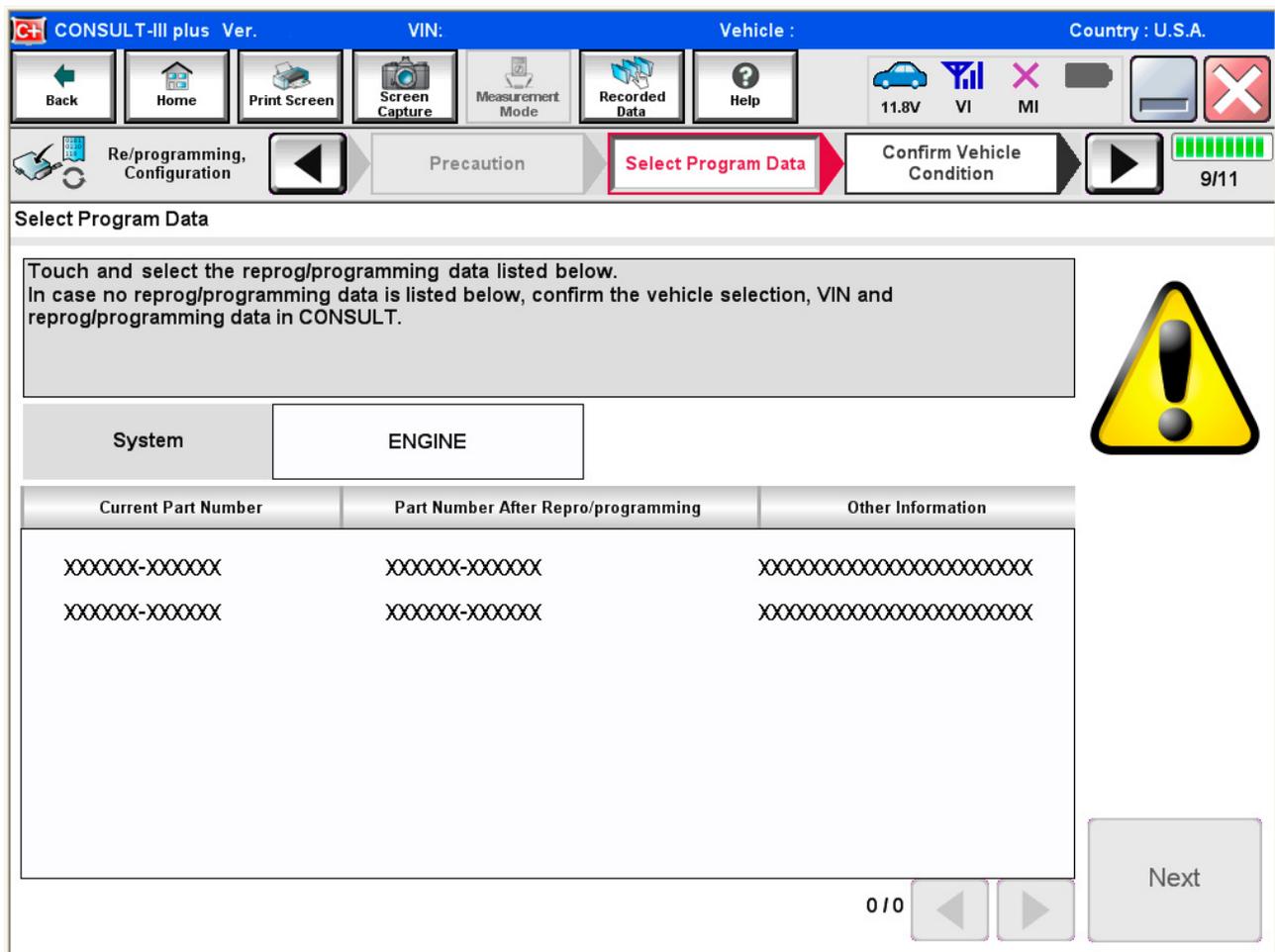


Figure 3

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 page 10.

9. Disconnect the battery charger from the vehicle.

10. Select **Next**.

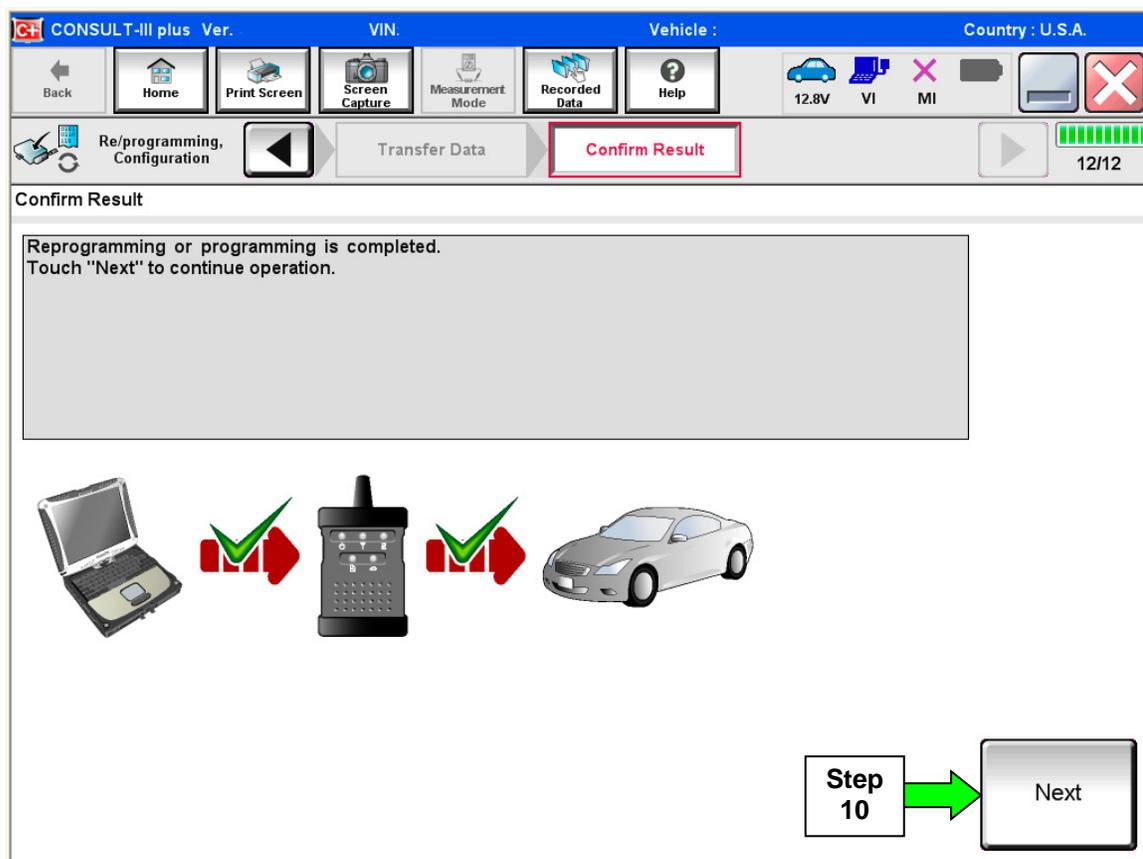


Figure 4

NOTE:

- In the next steps, starting on page 11, 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 Consult 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.

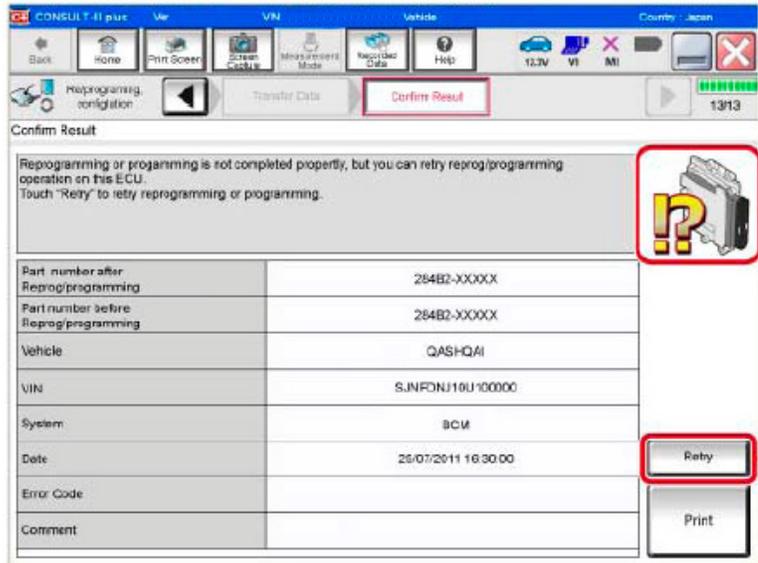


Figure 5

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.**

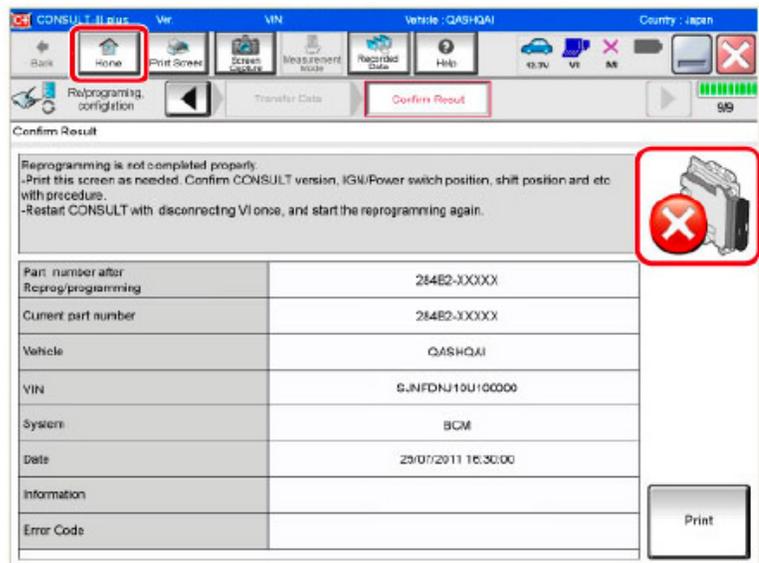


Figure 6

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

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

NOTE:

- **Listed below are common conditions required for IAVL to complete.**
- **If IAVL does not complete within a few minutes, a condition may be out of range.**
- **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**.

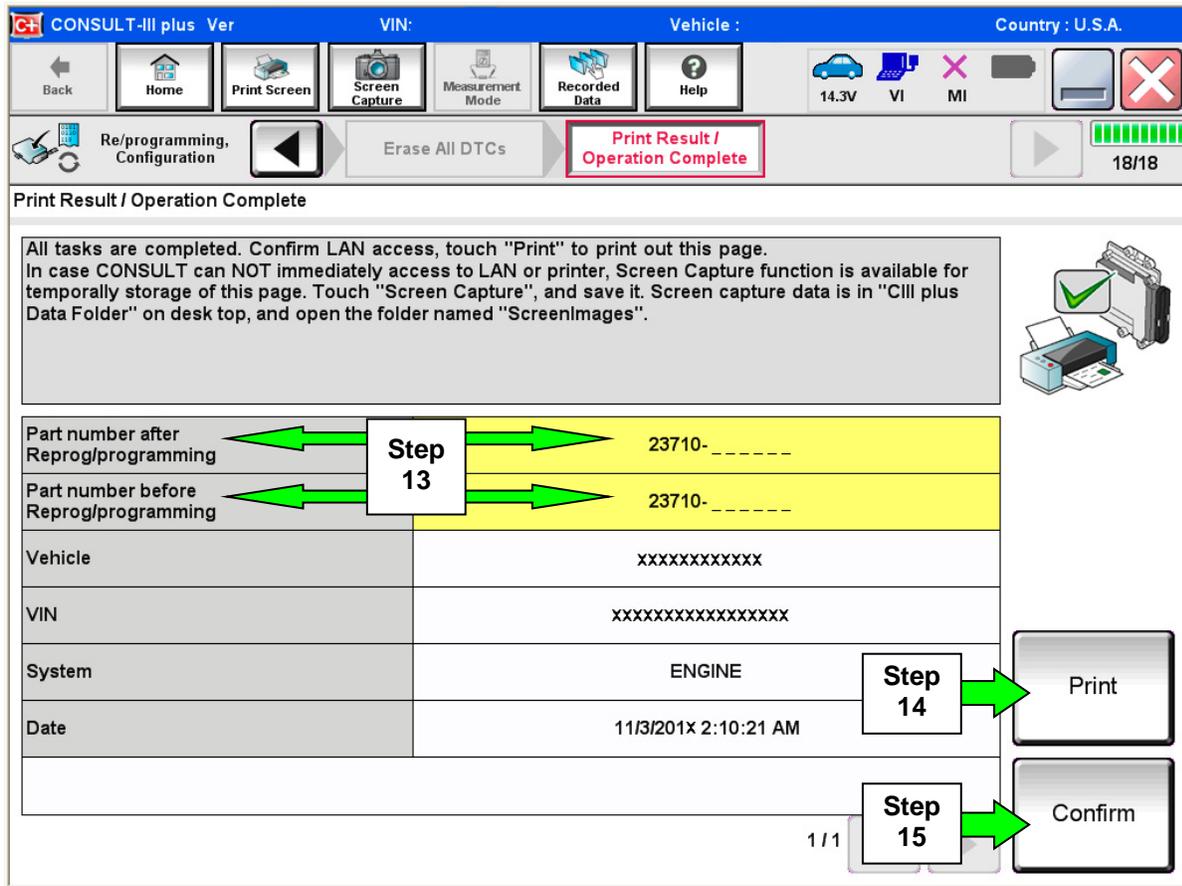


Figure 7

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.

PARTS INFORMATION

MODEL	DESCRIPTION	PART NUMBER	QUANTITY
Frontier (D40) ONLY	Center Exhaust Tube	20030-9BK0A	1
	Gasket	20692-24U0A	1

CLAIMS INFORMATION

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram Engine Control Module	(1)	DE97AA	ZE	32	(2)
Replace Exhaust Tube (Frontier ONLY)		FD30AA			(2)

- (1) Reference the repair order and use the ECM part number written down in step 6 of the service procedure.
- (2) Reference the current Nissan Warranty Flat Rate Manual and use the indicated flat rate time.

OR

2010-2015 Frontier ONLY without ECM Reprogram

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Replace Exhaust Tube	(3)	FD30AA	ZE	32	(4)

- (3) Reference the parts Information table and use the Exhaust Tube Assy as the PFP.
- (4) Reference the current Nissan Warranty Flat Rate Manual and use the indicated flat rate time.