



# SERVICE BULLETIN

Classification: AT10-010a	Reference: NTB10-150a	Date: November 5, 2013
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## 2010 ALTIMA, ROGUE, AND SENTRA MIL IS ON AND/OR SLOWER THAN NORMAL ACCELERATION

This bulletin has been amended to update the Service Procedure for use with CONSULT-III plus.  
Please discard previous versions of this bulletin.

**APPLIED VEHICLES:** 2010 Altima Sedan (L32) with QR25 engine  
2010 Altima Coupe (CL32) with QR25 engine  
2010 Sentra (B16) with MR20 or QR25 engine  
2010 Rogue (S35)

### IF YOU CONFIRM

The vehicle has slower than normal acceleration from a stop at times,  
**and/or**

The customer describes the vehicle has slower than normal acceleration from a stop at times,

**NOTE:** The condition of slower than normal acceleration from a stop, if it should occur, happens more commonly when the vehicle has been driven for extended periods at highway speeds.

**and/or**

The MIL is ON with DTC P1778 (STEP MOTOR) stored in Engine and/or Transmission.

**and/or**

Only for Sentra without ABS; MIL is ON with DTC P0720 (OUTPUT SPEED SENSOR) stored in Engine and/or Transmission.

### ACTIONS

1. Replace the transmission control valve assembly (valve body).
2. Reprogram the TCM (which includes TCM initialization).
  - Refer to step 6 under TCM reprogramming in the SERVICE PROCEDURE to confirm TCM reprogramming applies for the vehicle you are working on.

**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 as it contains information that is essential to successfully completing the 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.

## SERVICE PROCEDURE

### Control Valve Assembly Replacement

1. Replace the CVT control valve assembly.

- Use the new control valve assembly listed in the Parts Information.
- Refer to the Transmission section in the appropriate Service Manual for control valve assembly replacement information.
- Make sure TCM initialization is performed (separately or as part of the TCM reprogramming), see page 11.

#### NOTE:

- The transmission does not need to be removed for this procedure.
- Transmissions are vulnerable to particles (dust, metal, lint, etc.).
- When replacing a valve body, make sure your work environment (shop, workbench, etc.), the transmission area (sub-frame, oil pan, harness connector, etc.), and your hands are free of contamination.
- Make sure all parts are clean prior to installing on the vehicle. Unpack Service Parts just before installation.

Go to TCM Reprogramming on the next page.

## TCM Reprogramming (includes TCM initialization)

### 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) Reprogramming" general procedure.

### CAUTION:

- Connect the GR8 to the vehicle 12 volt battery and set to ECM power supply mode. If the vehicle battery voltage drops below 12.0V or rises above 15.5V during reprogramming, the TCM may be damaged.
- Be sure to turn OFF all vehicle electrical loads.  
If a vehicle electrical load remains ON, the TCM 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 TCM may be damaged.
- Turn off all external Bluetooth<sup>®</sup> devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the VI. If Bluetooth<sup>®</sup> signal waves are within range of the CONSULT PC during reprogramming, reprogramming may be interrupted and the TCM may be damaged.

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

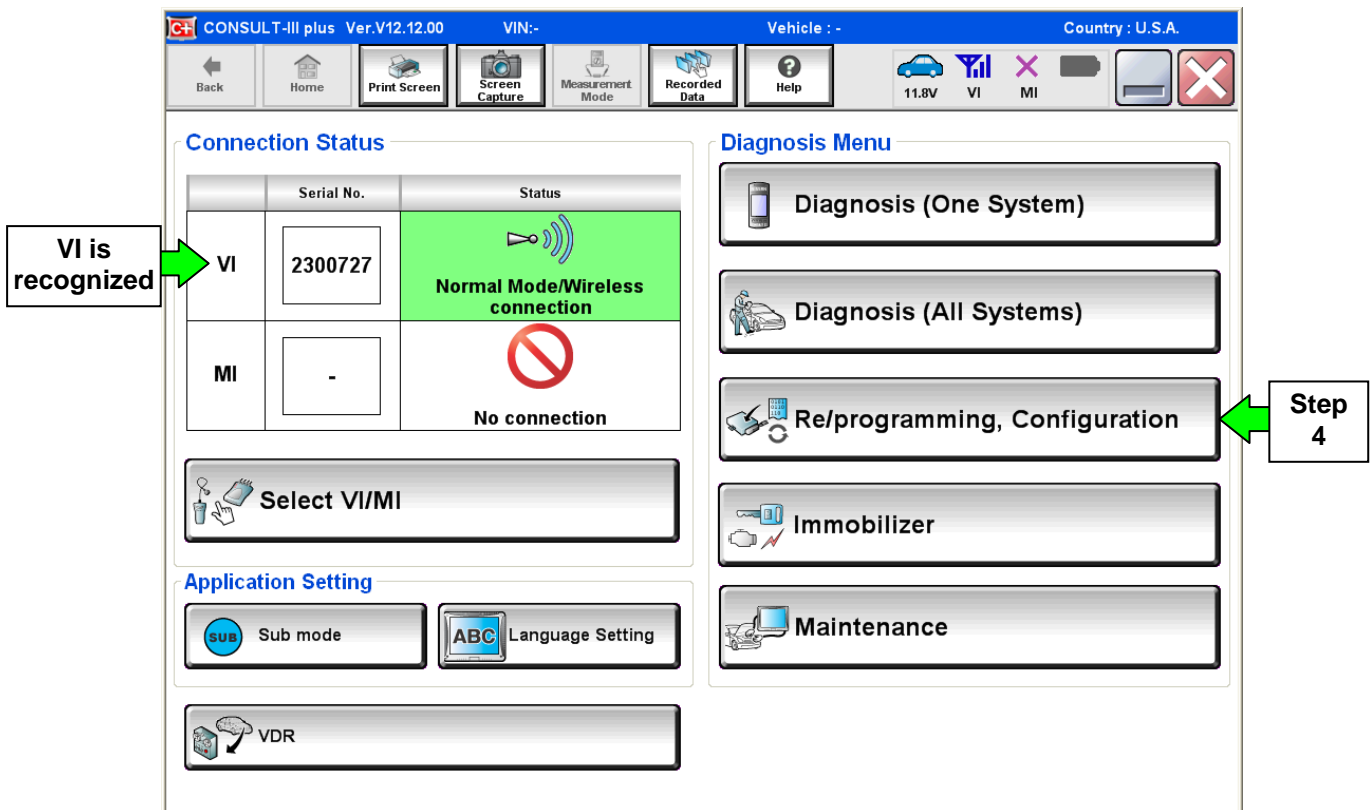


Figure 1

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 TCM **Part Number** and write it on the repair order.

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

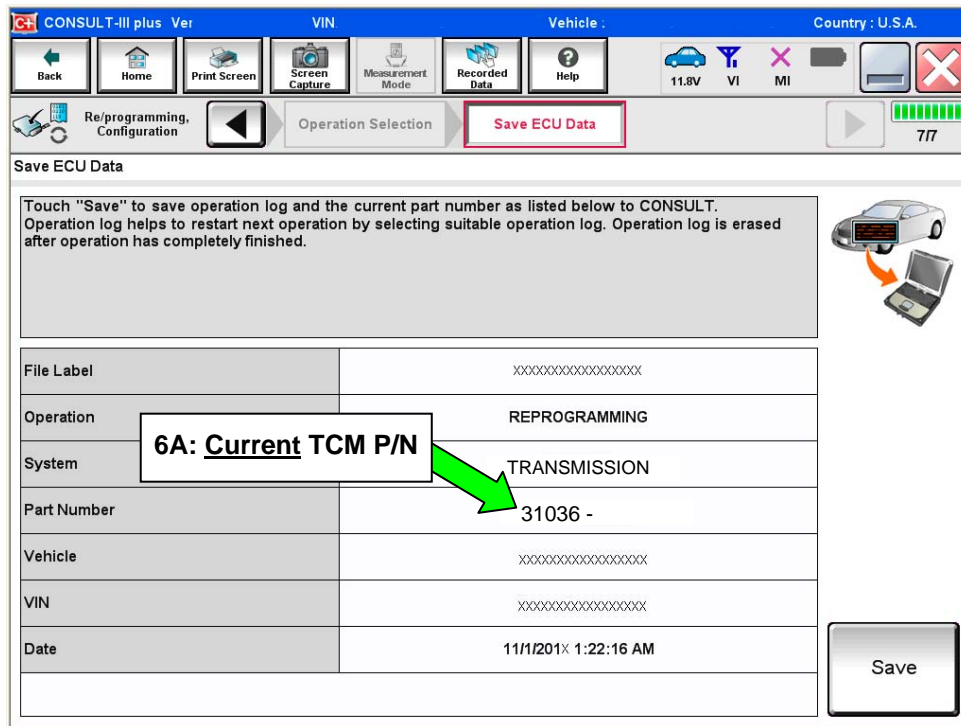


Figure 2

- B. Compare the P/N you wrote down to the numbers in the **Current TCM Part Number** column in **Table A** on the next page.
- If there is a match, reprogramming applies. Continue with the reprogramming procedure.
  - If there is not a match, reprogramming does not apply. Close C-III plus and disconnect from the vehicle.

**Table A**

<b>Model</b>	<b>Current TCM P/N 31036 -</b>
2010 Rogue w / QR25DE	CZ30A, CZ30B
	CZ31A, CZ31B
	CZ32A, CZ32B
	CZ33A, CZ33B
	CZ34A, CZ34B
	CZ35A, CZ35B
	CZ36A, CZ36B
	CZ37A, CZ37B
	CZ38A, CZ38B
	CZ39A, CZ39B
	CZ48A, CZ48B
CZ49A, CZ49B	
2010 Altima w / QR25DE	ZX00A, ZX00B
2010 Sentra w / MR20DE	ZT50A, ZT50B
	ZT52A, ZT52B
	ZT54A, ZT54B
	ZT80A, ZT80B
	ZT82A, ZT82B
	ZT84A, ZT84B
2010 Sentra w / QR25DE	ZT70A, ZT70B

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

**NOTE:**

- In some cases, more than one new P/N for reprogramming is available.
  - If there is more than one new P/N, 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.

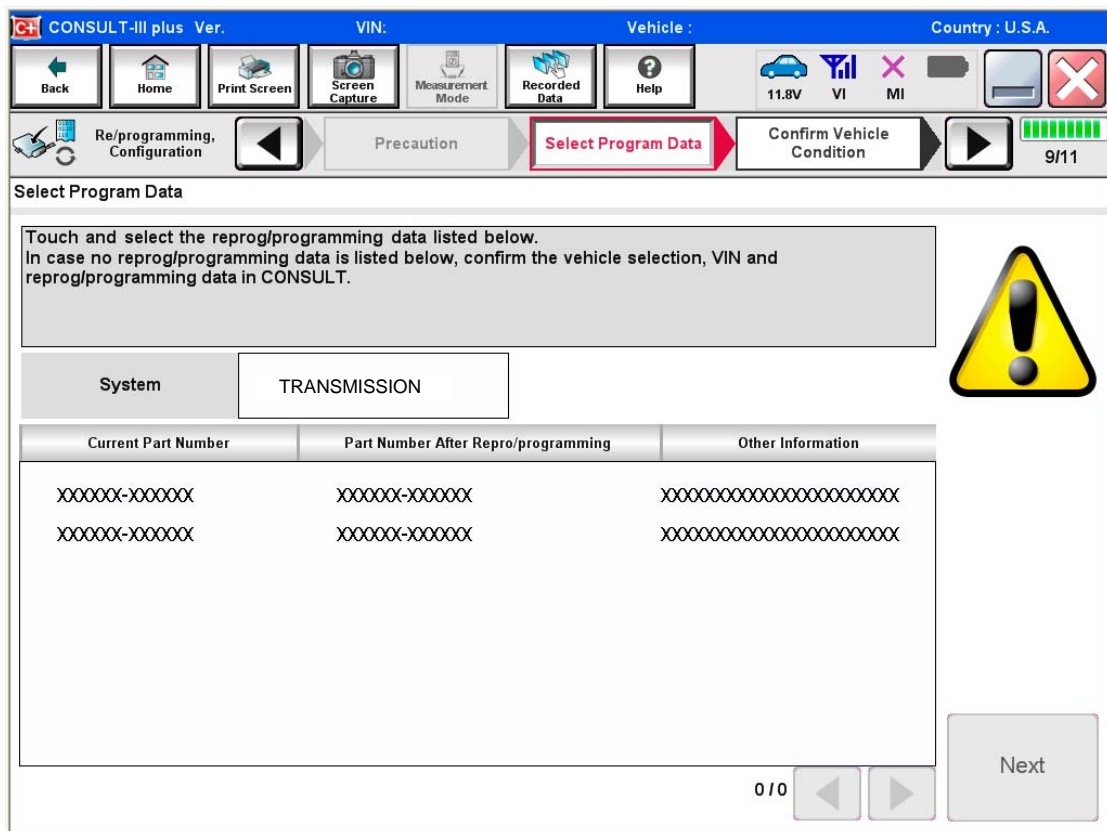


Figure 3

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

**NOTE:** If the screen in Figure 4 does not display (if reprogramming does not complete), refer to the information on the next page.

9. Disconnect the battery charger or the GR8 from the vehicle.

10. Select **Next**.

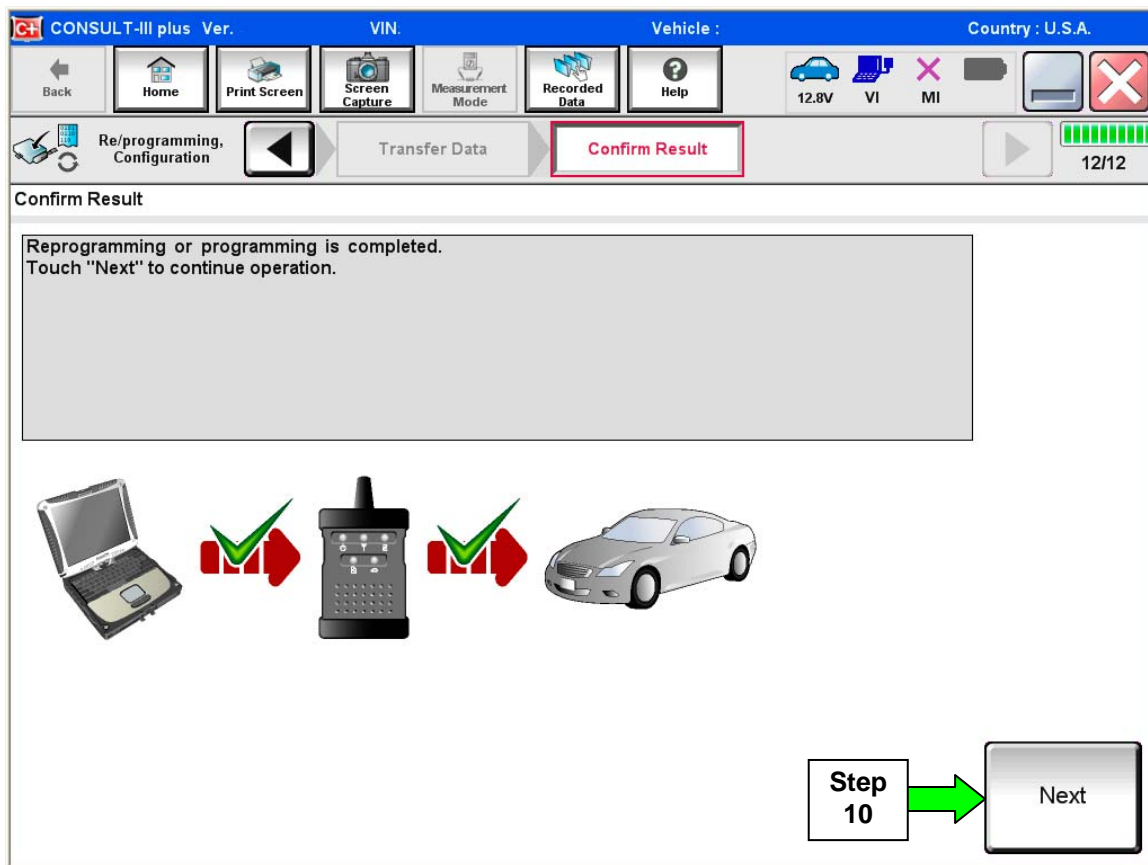


Figure 4

**NOTE:**

- In the next step (page 9), you will perform **Erase All DTCs**.
- DTC erase is required before C-III plus will provide the final reprogramming confirmation report.



## TCM 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.

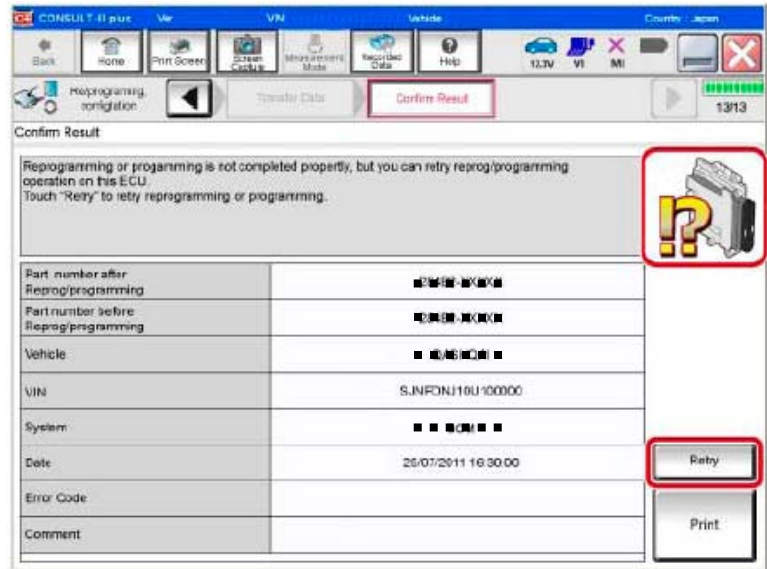


Figure 5

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.**

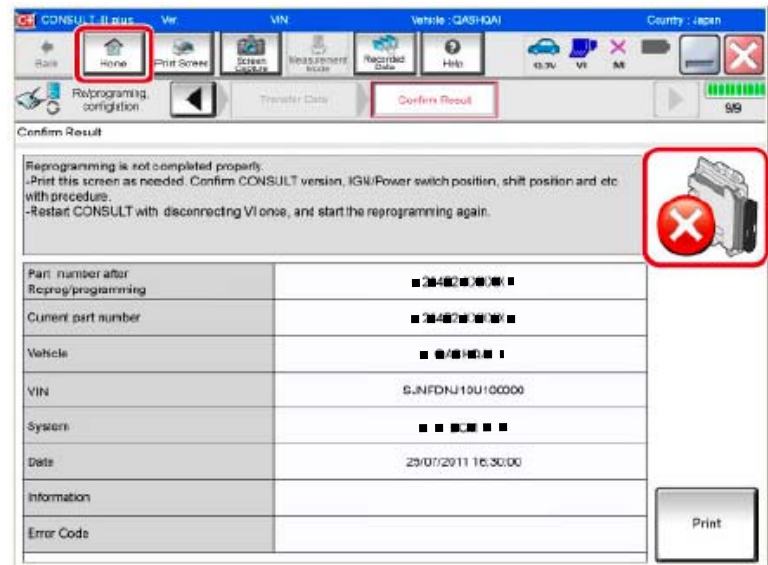


Figure 6

11. Follow the on-screen instructions to **Erase All DTCs**.
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**.

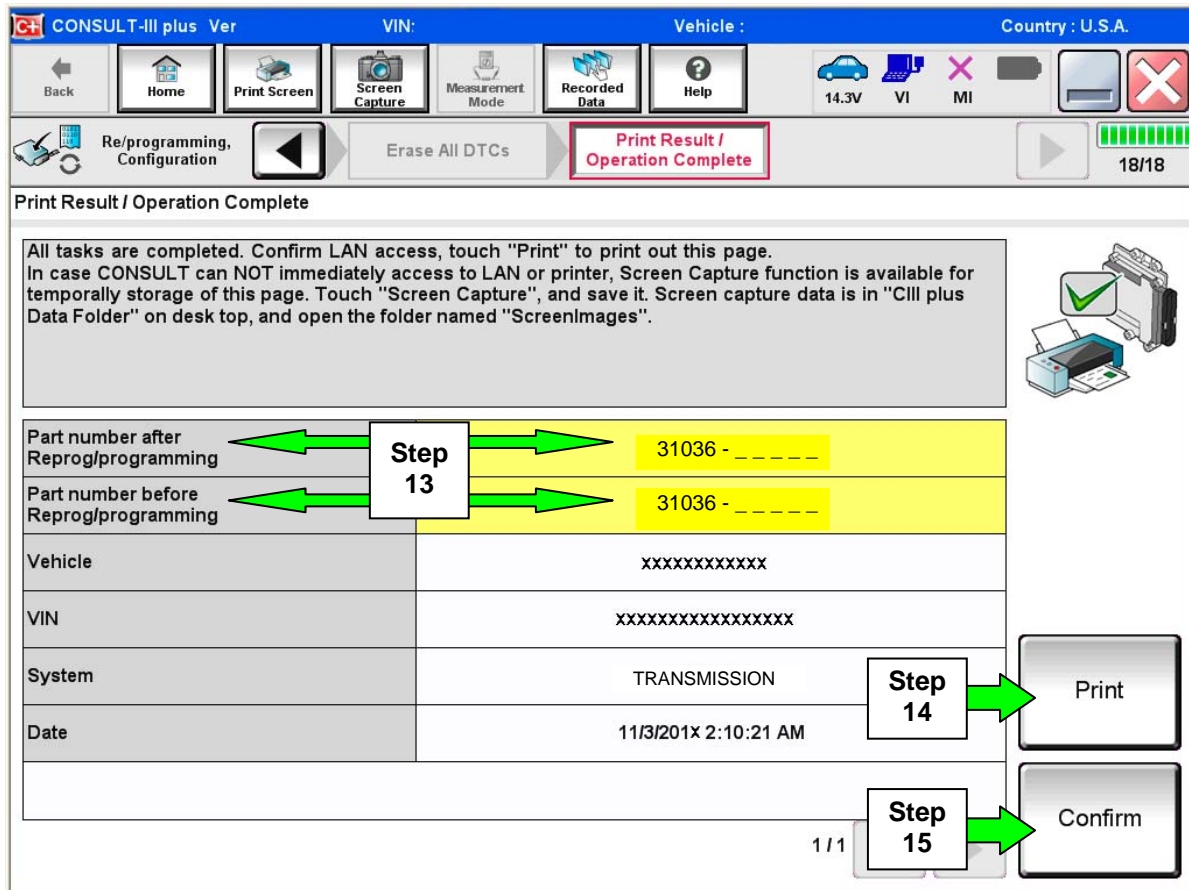


Figure 7

16. Make sure TCM initialization was performed as part of the TCM reprogramming procedure.
17. Close C-III plus.
18. Turn the ignition OFF.
19. Disconnect the plus VI from the vehicle.
20. Make sure the vehicle operates correctly and the MIL is OFF.
  - If the MIL comes ON, go back to ASIST for further diagnostic information.

## TCM Initialization Procedure (if not done as part of TCM reprogramming)

**NOTE:** If reprogramming is not performed, make sure TCM initialization is performed as part of the control valve assembly replacement.

1. Set the parking brake with the selector lever in “P” (Park).
2. Attach C-III plus to the vehicle with the plus VI.
3. Turn the ignition ON (engine OFF - not running).
4. Open C-III plus and navigate screens to: **Diagnosis One System >> Transmission >> Calibration Data.**
5. Print the Calibration Data and save a copy (or write down the calibration data).
6. Select Transmission **Self Diagnostic Results.**
7. Perform the initialization (EEPROM erase) procedure as follows:
  - a. Press and hold the brake pedal.
  - b. Shift the selector lever to “R” (Reverse).
  - c. Press and hold the accelerator pedal at about one-third, but no more than halfway.
    - The purpose of this step is to get both the wide open throttle and closed throttle position signals to read “OFF” at the same time.
  - d. Press **Erase** on the C-III plus screen.
  - e. Shift the selector lever to “P” (Park).

**NOTE:** If the EEPROM erase was successful, the “P” in the instrument display will have a short delay (about 1.5 seconds) before illuminating after shifting to Park.
  - f. Remove foot from brake.
  - g. Turn the ignition OFF.
  - h. Wait 5 seconds.
  - i. Turn the ignition ON.
8. On C-III plus, select **Transmission Calibration Data** again.
9. Print the Calibration Data and save a copy (or write down the calibration data).
10. Compare the values between the first and second Calibration Data prints.
  - The procedure is complete if the values are different.
  - If the values are not different, repeat the procedure.
11. Make sure to erase DTCs from all systems.

**PARTS INFORMATION**

DESCRIPTION	VEHICLE	PART #	QTY
Valve Assy - Control	Sentra	31705-1XZ1B	1
	Altima (Sedan and Coupe)	31705-1XZ1B	
	Rogue	31705-1XF0D	1
Gasket - Oil Pan	Sentra	31397-1XF0C	1
	Altima (Sedan and Coupe)	31397-1XF0D	
	Rogue	31397-1XF0C	
Seal – O-ring	all	31528-1XA01	1
Seal – Lip	all	31526-1XG0A	1
Gasket – Drain Plug	all	11026-31X00	
Nissan CVT NS-2 Fluid *	all	999MP-NS200P *	up to 5 qt

\* Order this item through the Nissan Maintenance Advantage program: Phone: 877-NIS-NMA1 (877-647-6621). Website order via link on dealer portal [www.NNAnet.com](http://www.NNAnet.com) and click on the “Maintenance Advantage” link

**CLAIMS INFORMATION**

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
RPL CONTROL VALVE ASSY	(1)	JD48AA	ZE	32	(2)
Reprogram TCM (includes initialization)		JE99AA			(2) (3)

- (1) Reference the Parts Information Table and use the applicable Control Valve Assy P/N as the PFP.
- (2) Reference the current Nissan Warranty Flat Rate Manual and use the indicated flat rate time.
- (3) FRT allows adequate time to access DTC codes and reprogram TCM. No other diagnostic procedures subsequently required. Do NOT claim any Diagnostic Op Codes with this claim.

