

Classification:

EC18-027

Reference:

ITB18-036

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Date:

October 24, 2018

## **VOLUNTARY SERVICE CAMPAIGN 2018 QX60; ELECTRIC INTAKE VALVE TIMING CONTROL MODULE REPROGRAMMING**

**CAMPAIGN ID #:** PC662  
**APPLIED VEHICLES:** 2018 QX60 (L50)

**Check Service COMM or Dealer Business Systems (DBS)  
National Service History to confirm campaign eligibility.**

### **INTRODUCTION**

Infiniti is conducting this voluntary service campaign on certain specific 2018 QX60 vehicles to reprogram the electric Intake Valve Timing (IVT) control module. This service will be performed at no charge to the customer for parts or labor.

### **IDENTIFICATION NUMBER**

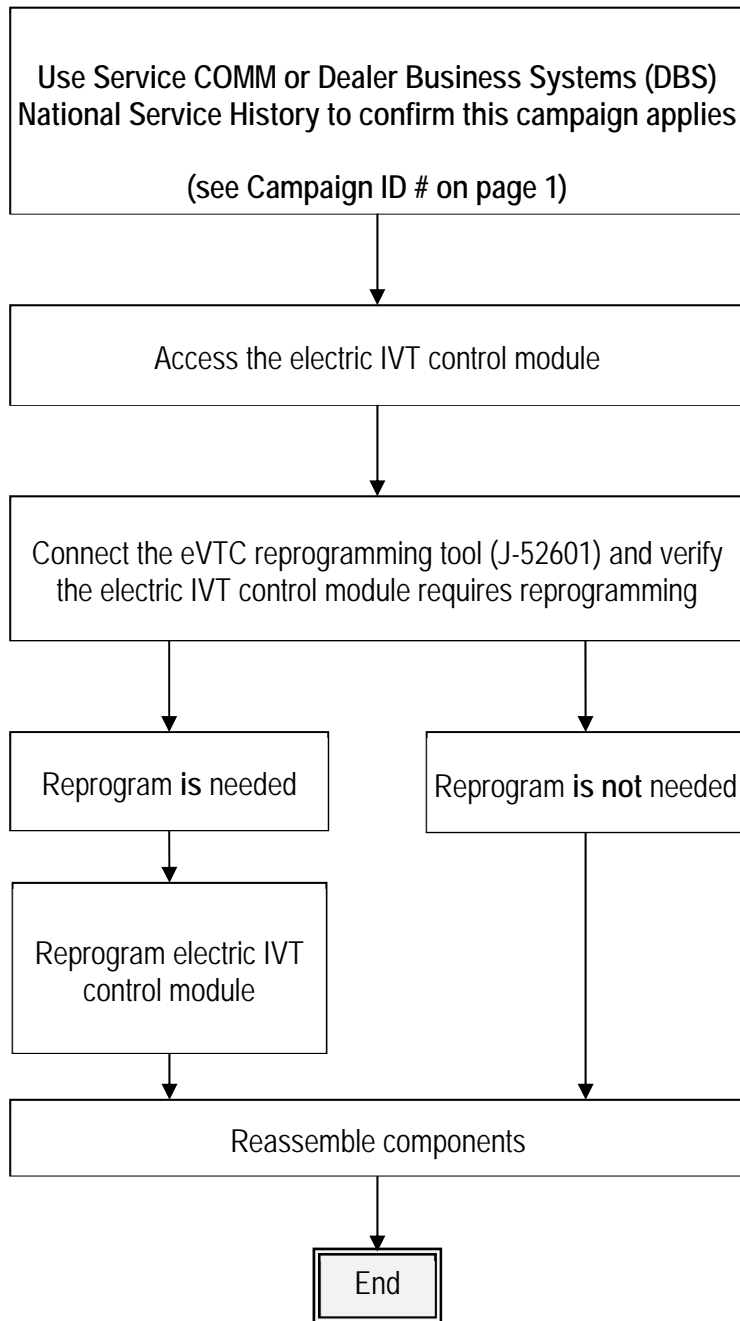
Infiniti has assigned identification number PC662 to this campaign. This number must appear on all communication and documentation of any nature dealing with this campaign.

### **DEALER RESPONSIBILITY**

Dealers are to repair vehicles falling within range of this campaign that enter the service department. This includes vehicles purchased from private parties, vehicles presented by transient (tourists) 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 retailer to determine if this applies to your vehicle.

## REPAIR OVERVIEW



## REQUIRED SPECIAL TOOLS

### eVTC reprogramming kit (J-52601)

- Each dealer has been shipped one eVTC reprogramming kit (J-52601).
- Tool kit includes:
  - eVTC reprogramming tool.
  - Mini USB cable
  - Reprogramming harness
- Additional tools can be obtained from Tech-Mate at 1-800-662-2001.

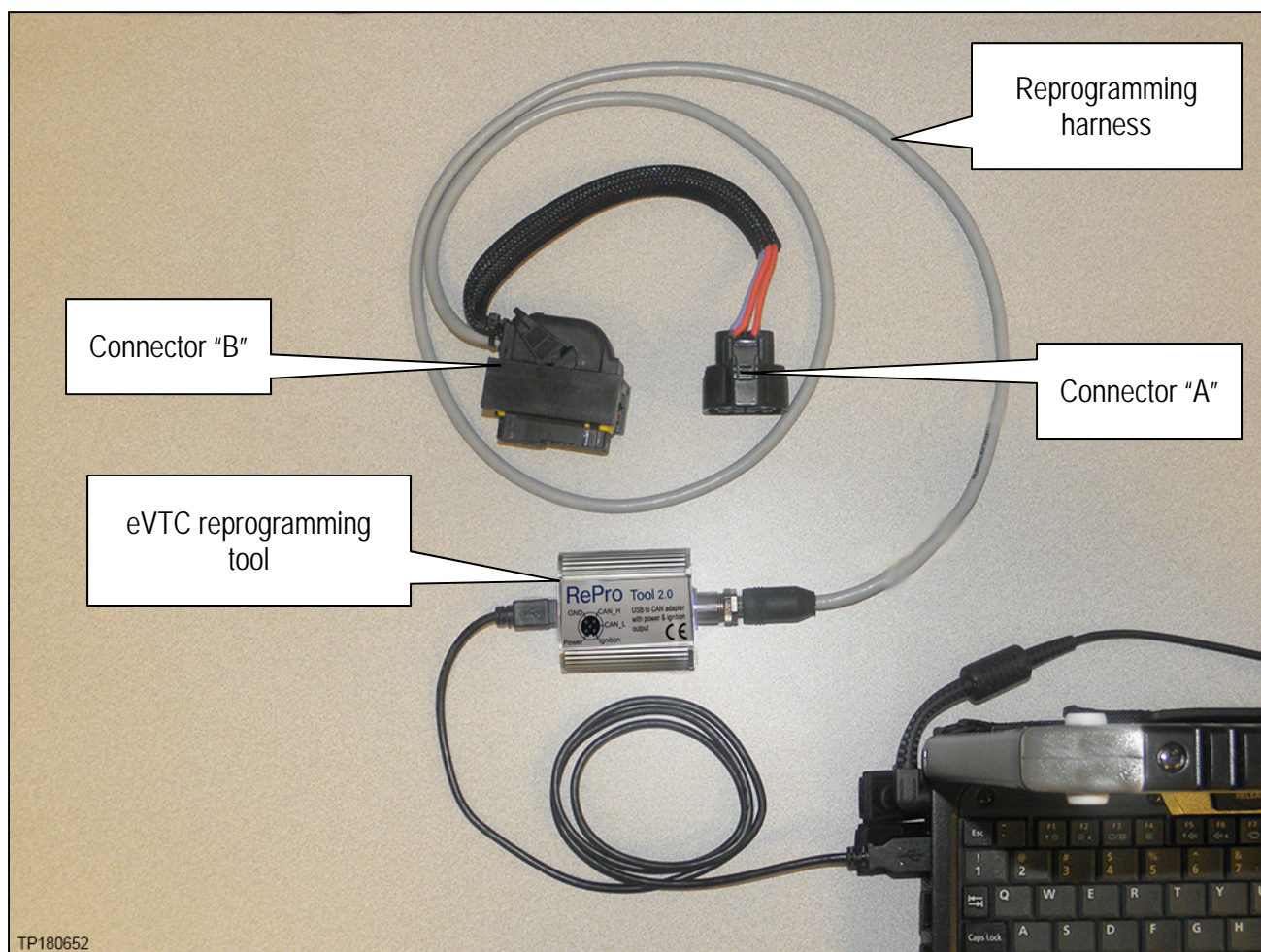


Figure 1

## SERVICE PROCEDURE

1. Write down the radio settings.

Presets	1	2	3	4	5	6
AM						
FM 1						
FM 2						
SAT 1						
SAT 2						
Bass	Treble		Balance		Fade	Speed Sen. Vol.

2. Write down any settings that will be lost when the 12 volt battery is disconnected.

- Refer to the ESM for a listing of systems that may lose memory after disconnecting the 12 volt battery.
- Navigate to - ELECTRICAL & POWER CONTROL > POWER SUPPLY, GROUND & CIRCUIT ELEMENTS > BASIC INSPECTION > INSPECTION AND ADJUSTMENT > ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL
- This list often includes items such as radio, climate control, clock, etc.

3. Turn the ignition OFF.

4. Disconnect the negative battery cable.

5. Remove the two 10 mm bolts securing the front air duct.

6. Remove the front air duct.

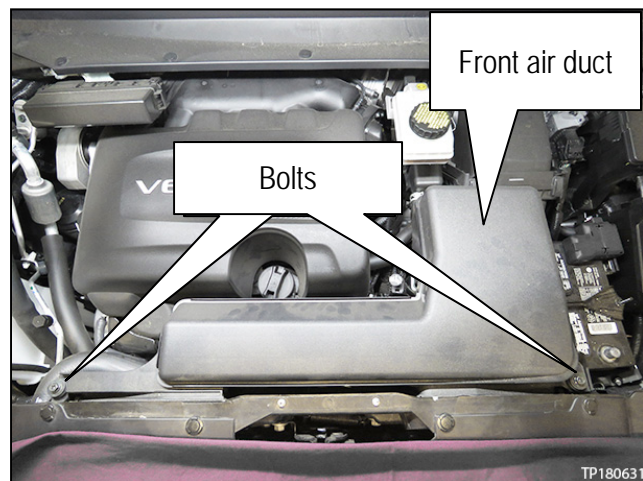


Figure 2

7. Remove the two 10 mm ground bolts shown in Figure 3.

- Position the ground leads out of the way (down to the left) to allow clearance to temporarily connect the eVTC reprogramming harness to the electric IVT control module.

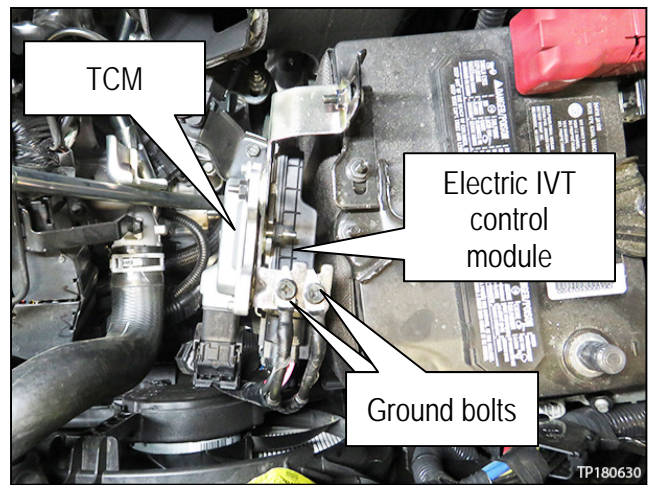


Figure 3

8. Disconnect electric IVT control module's connector F106.

- Depress locking tab while removing connector F106 from the electric IVT control module.
- Once disconnected, temporarily position the connector to the left out of the way.

**IMPORTANT:** Use caution when connecting and disconnecting electrical connectors to prevent pin damage.

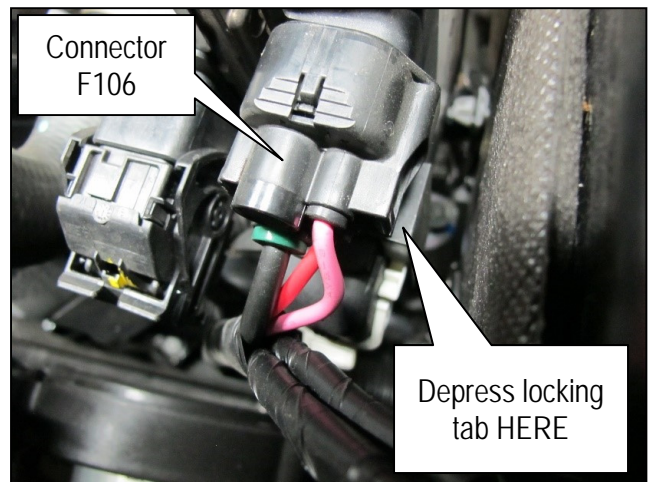


Figure 4

9. Disconnect the electric IVT control module's connector F105.

- Depress locking tab (below the white locking lever) while lifting the white locking lever.
- Once disconnected, temporarily position the connector to the left out of the way.

**IMPORTANT:** Use caution when connecting and disconnecting electrical connectors to prevent pin damage.

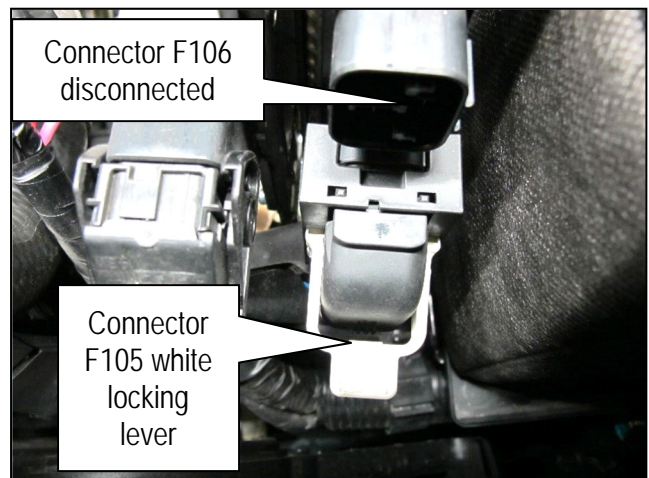


Figure 5

10. Connect reprogramming connector "B" to the electric IVT control module's F105 location.

**IMPORTANT:** Use caution when connecting and disconnecting electrical connectors to prevent pin damage.

11. Connect reprogramming connector "A" to the electric IVT control module's F106 location.

**IMPORTANT:** Use caution when connecting and disconnecting electrical connectors to prevent pin damage.

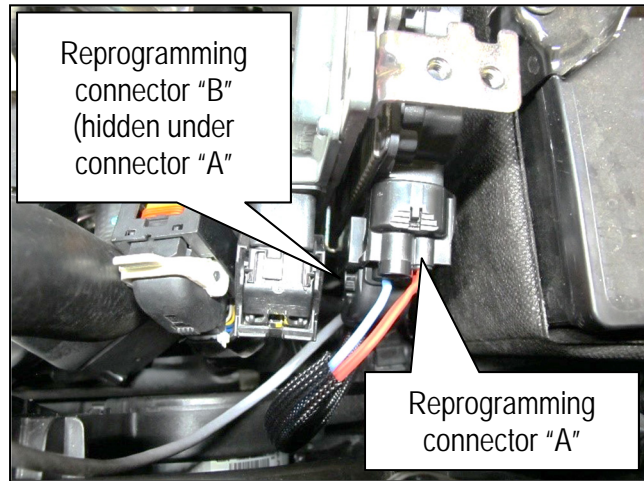


Figure 6

12. Connect the mini USB cable to your CONSULT PC USB port.

13. Connect the A/C adapter to your CONSULT PC.

14. Turn ON your CONSULT PC.

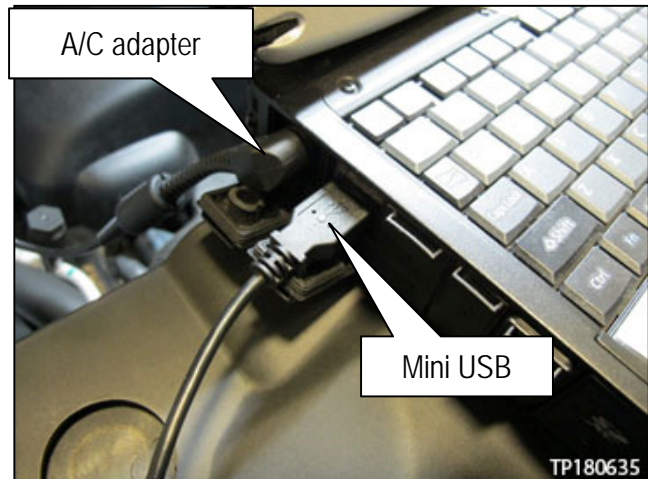


Figure 7

15. Open ASIST.
16. Open the "Specialty Tools" tab on the left side of the screen.
17. Select "PC661 and PC662 eIVT Reprogram" link. The screen shown in Figure 9 will display.

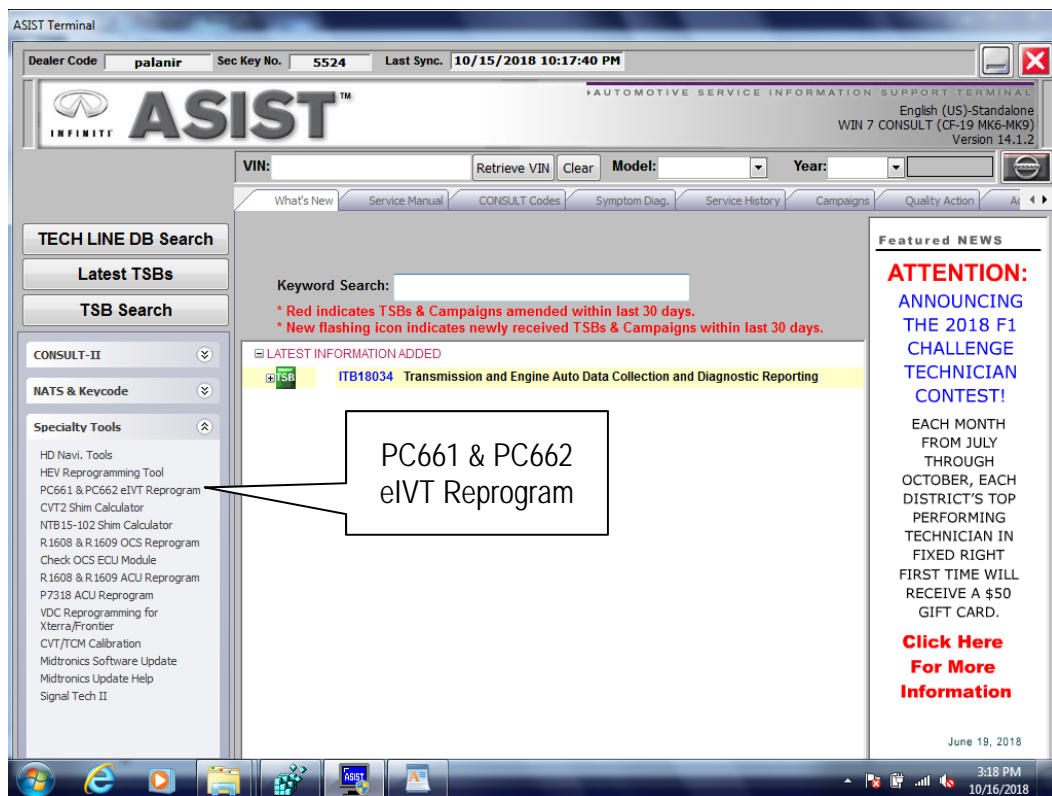


Figure 8

18. Select "Read Revision" to view the electric IVT control module's current software version.

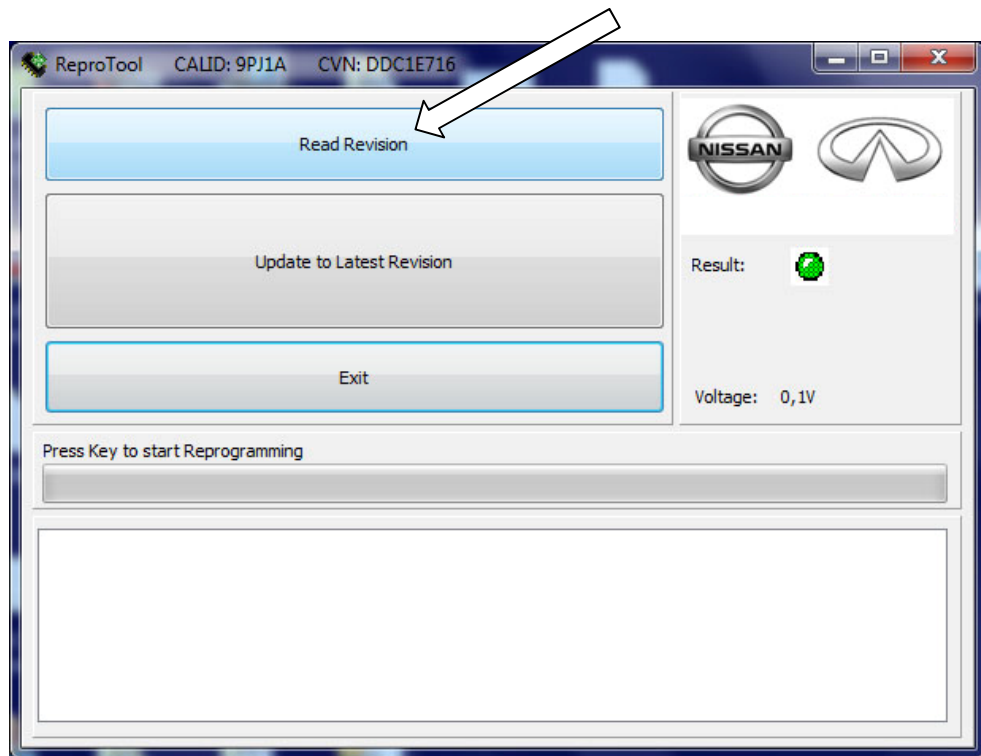
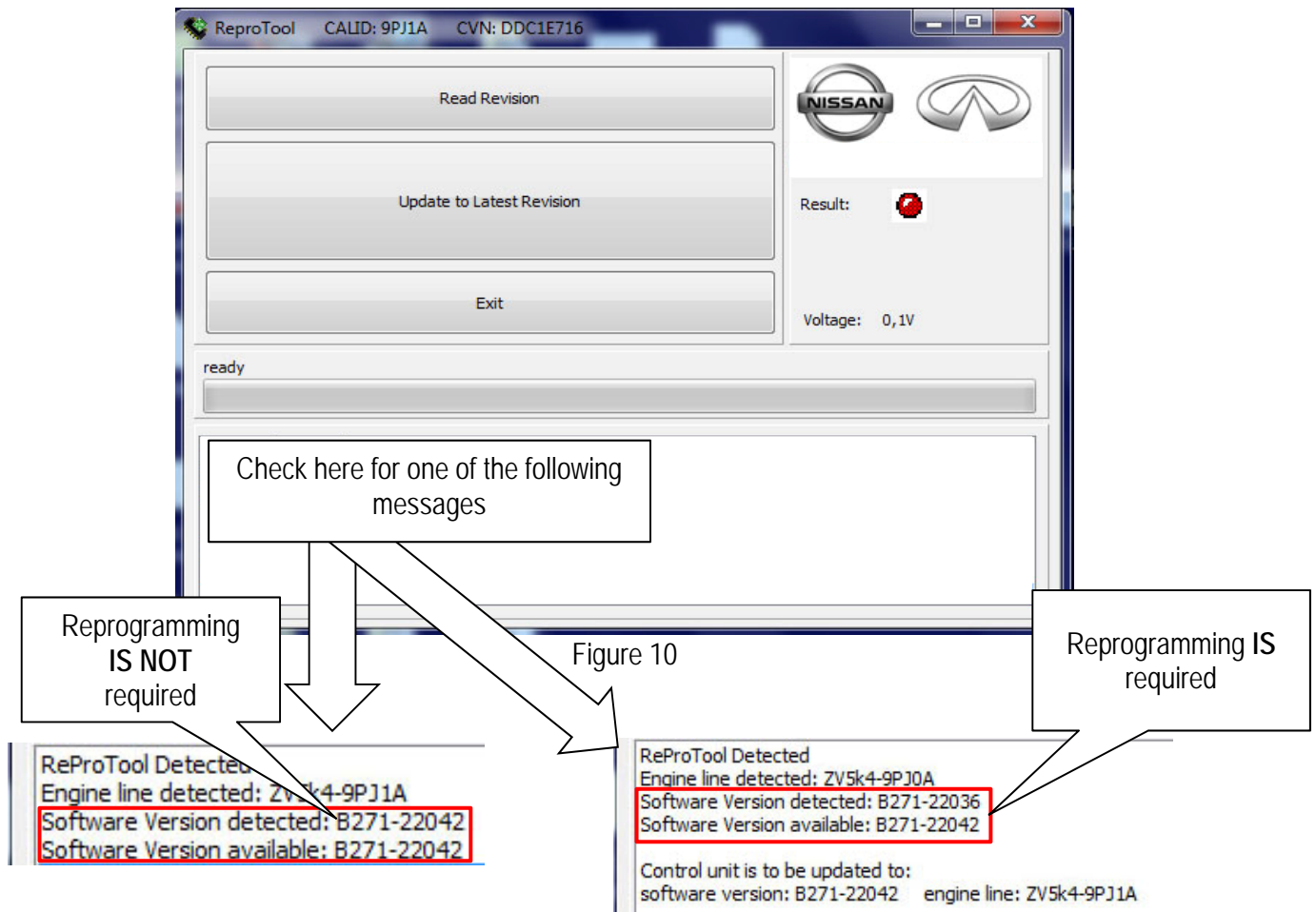


Figure 9

## Determine If Reprogramming Is Required



19. Compare the “Software Version detected” to the “Software Version available.”

- If the “Software Version detected” is **THE SAME** as the “Software Version available” then reprogramming **IS NOT** required, skip to step 24.
- If the “Software Version detected” is **DIFFERENT** than “Software Version available” then reprogramming **IS** required, continue to the next step (step 20).

**NOTE:** The “Software Version detected” will be different than the “Software Version available” if reprogramming is required.



20. Select the "Update to Latest Revision" button as shown in Figure 11.

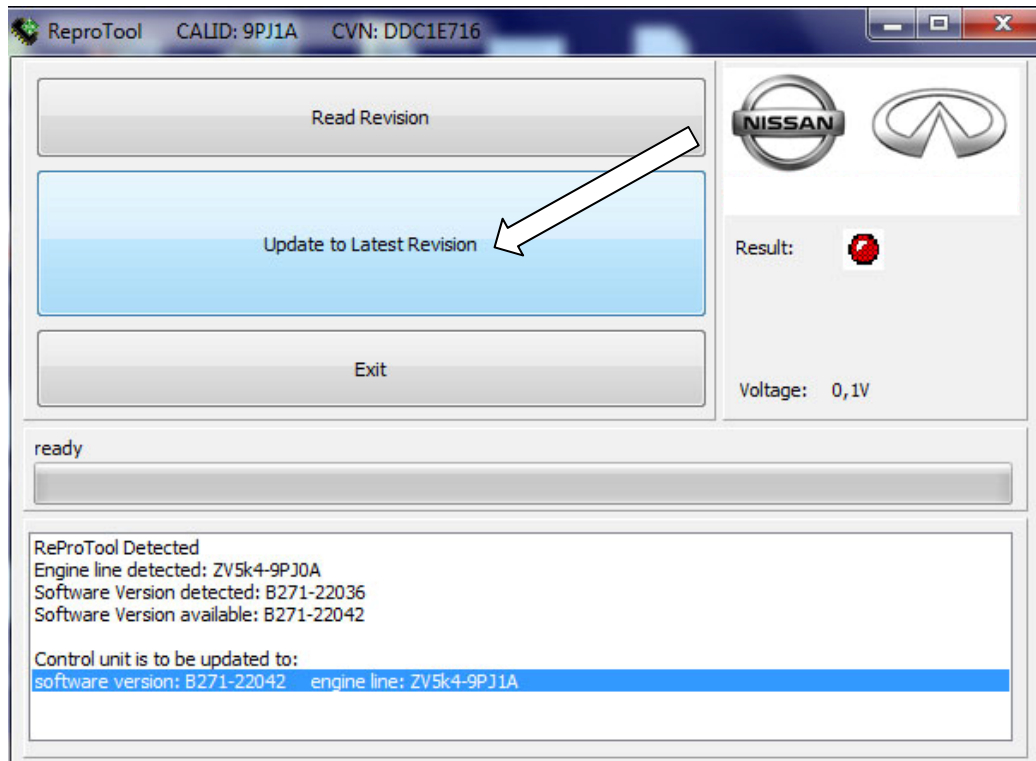


Figure 11

21. The electric IVT control module reprogramming will complete after a few seconds. Reprogramming screen is shown in Figure 12.

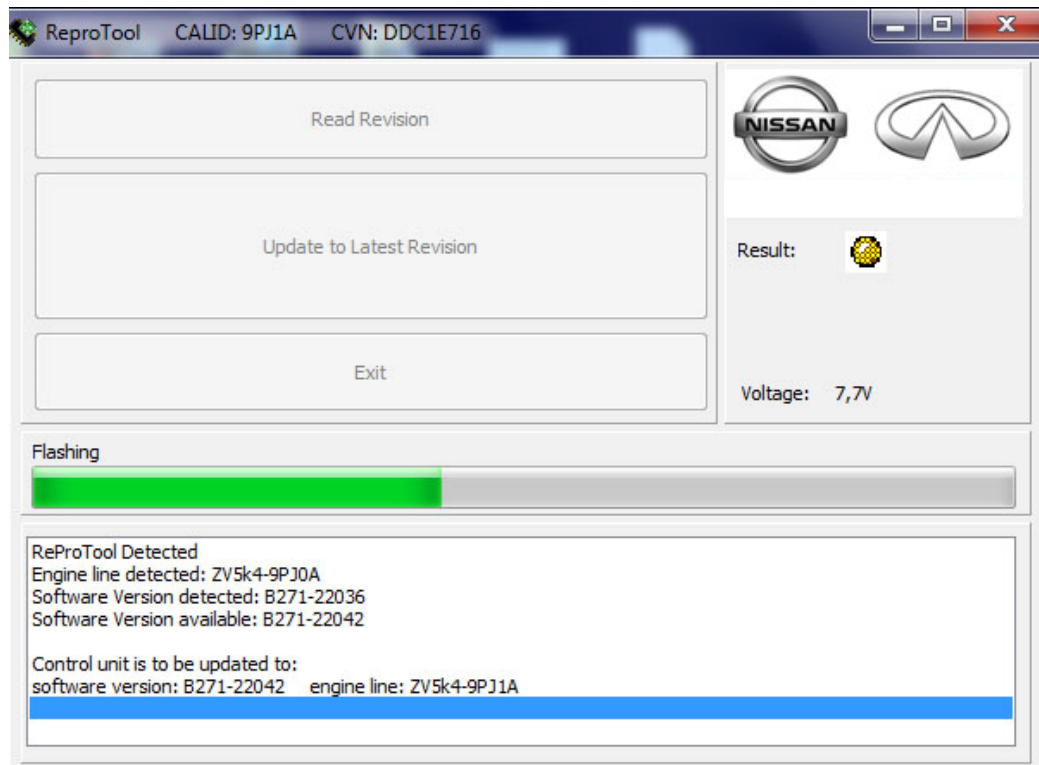


Figure 12

22. Verify the message “flash process finished successfully” as shown in Figure 13.

- If this message does not display, refer to **ERROR SCREENS** on page 14.

23. Select “Exit.”

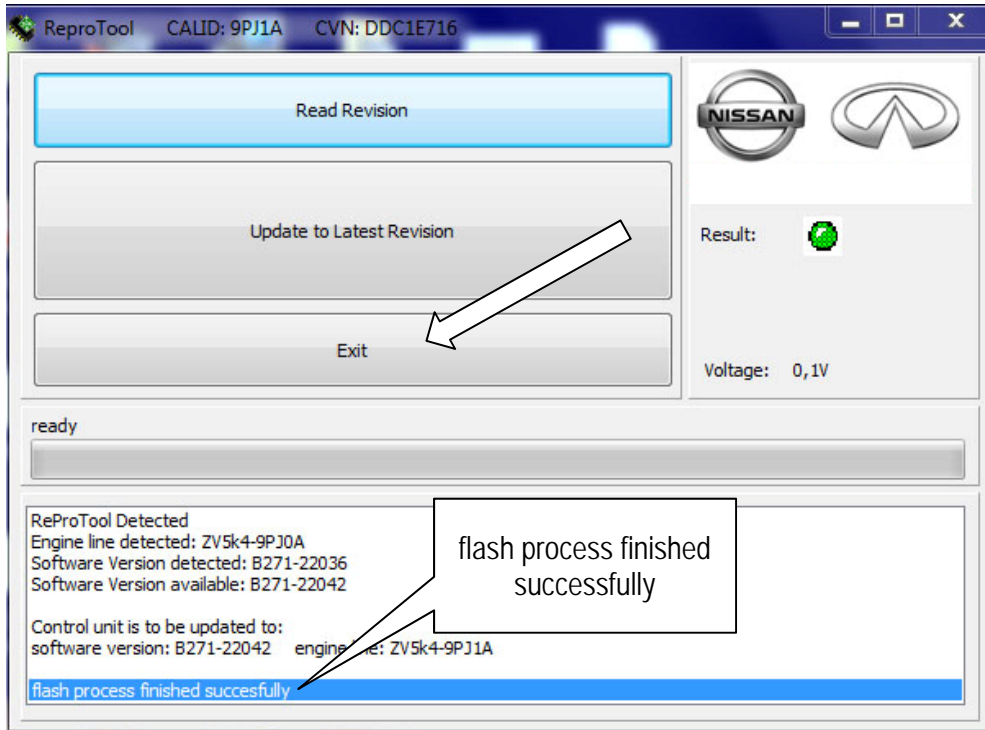


Figure 13

24. Disconnect reprogramming connector "A" and "B" from the electric IVT control module.

**IMPORTANT:** Use caution when connecting and disconnecting electrical connectors to prevent pin damage.

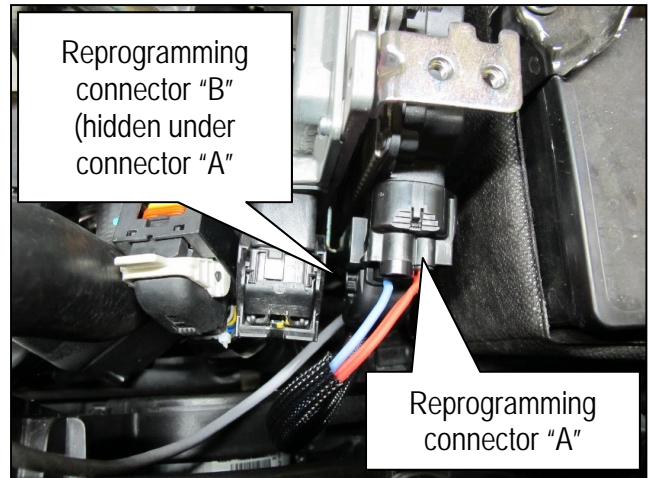


Figure 14

25. Connect the electric IVT control module's connector F105.

- Fold the lever down to seat connector F105.

**IMPORTANT:** Use caution when connecting and disconnecting electrical connectors to prevent pin damage.

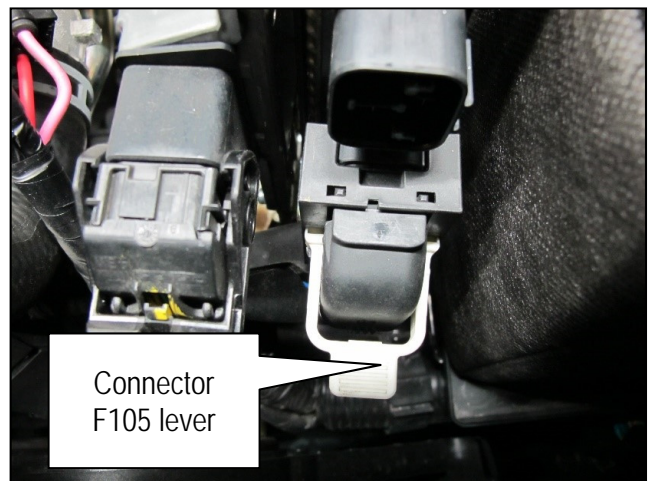


Figure 15

26. Connect the electric IVT control module's F106 connector.

- Listen for a “click” sound to verify connector F106 is properly seated.

**IMPORTANT:** Use caution when connecting and disconnecting electrical connectors to prevent pin damage.

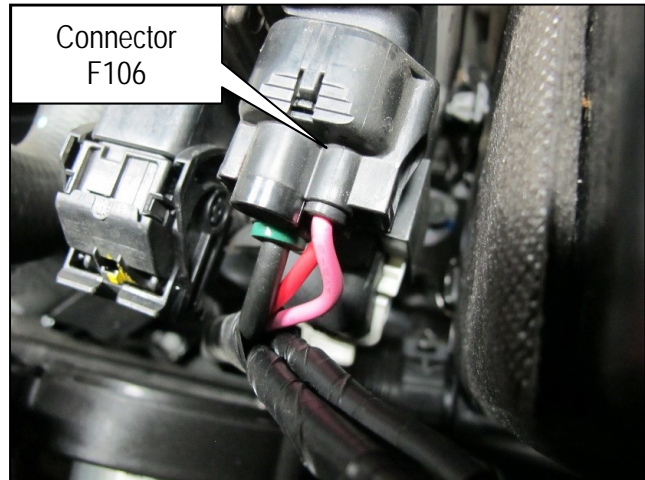


Figure 16

27. Install ground bolts shown in Figure 17.

- Torque bolts to 5.5 N·m (0.56 kg-m, 49 in-lb).

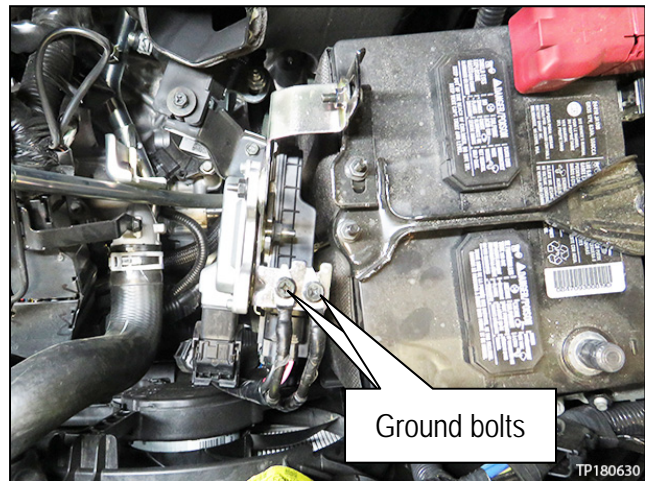


Figure 17

28. Install the front air duct.

29. Install the two 10 mm bolts securing the front air duct.

- Torque bolts to 5.5 N•m (0.56 kg-m, **49 in-lb**).

30. Install the negative battery cable.

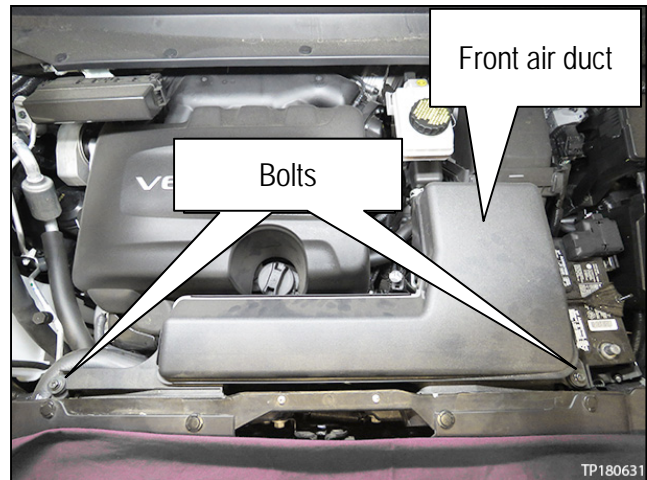


Figure 18

31. Reset/reinitialize systems as needed.

- Refer to the ESM for a listing of systems that require reset/initialization after reconnecting the 12V battery.
- Navigate to - ELECTRICAL & POWER CONTROL > POWER SUPPLY, GROUND & CIRCUIT ELEMENTS > BASIC INSPECTION > INSPECTION AND ADJUSTMENT > ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL
- This list often includes items such as radio, power windows, clock, sunroof, etc.

## ERROR SCREENS

If an error should occur, refer to the following for possible causes.

The error in Figure 19 indicates that eVTC reprogramming tool (J-52601) has a poor USB connection.

- a. Inspect the **USB** connection on the CONSULT PC and the eVTC reprogramming tool (J-52601).
- b. If the connections are secure, try a known good mini USB cable and retry reprogramming.

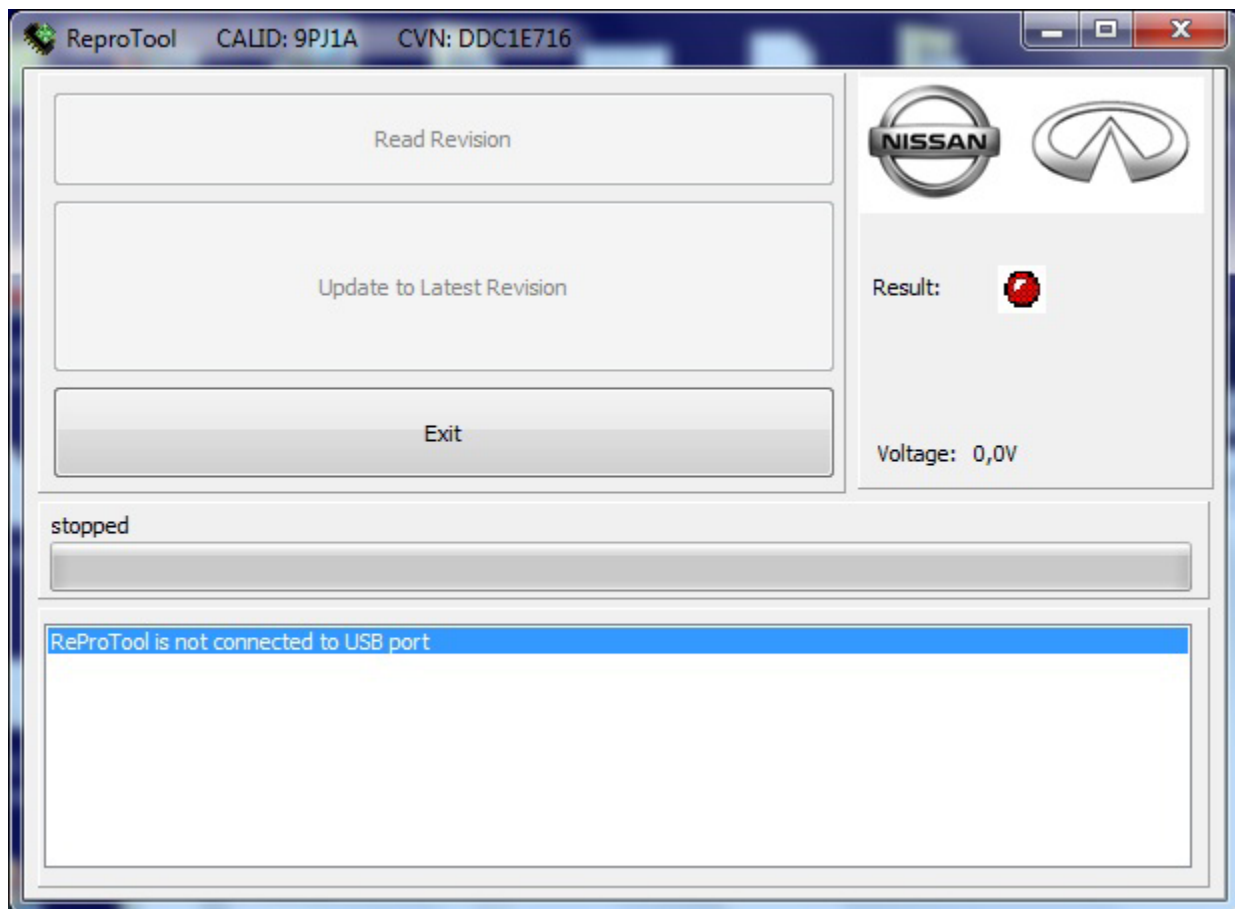


Figure 19

The error in Figure 20 indicates that eVTC reprogramming tool (J-52601) has a poor reprogramming harness connection.

- a. Inspect the round connector at the eVTC reprogramming tool (J-52601).
- b. Inspect connector A and B on the electric IVT control module.
- c. If the connections are secure, try a known good reprogramming harness.

**NOTE:** Additional tools can be obtained from Tech-Mate at 1-800-662-2001.

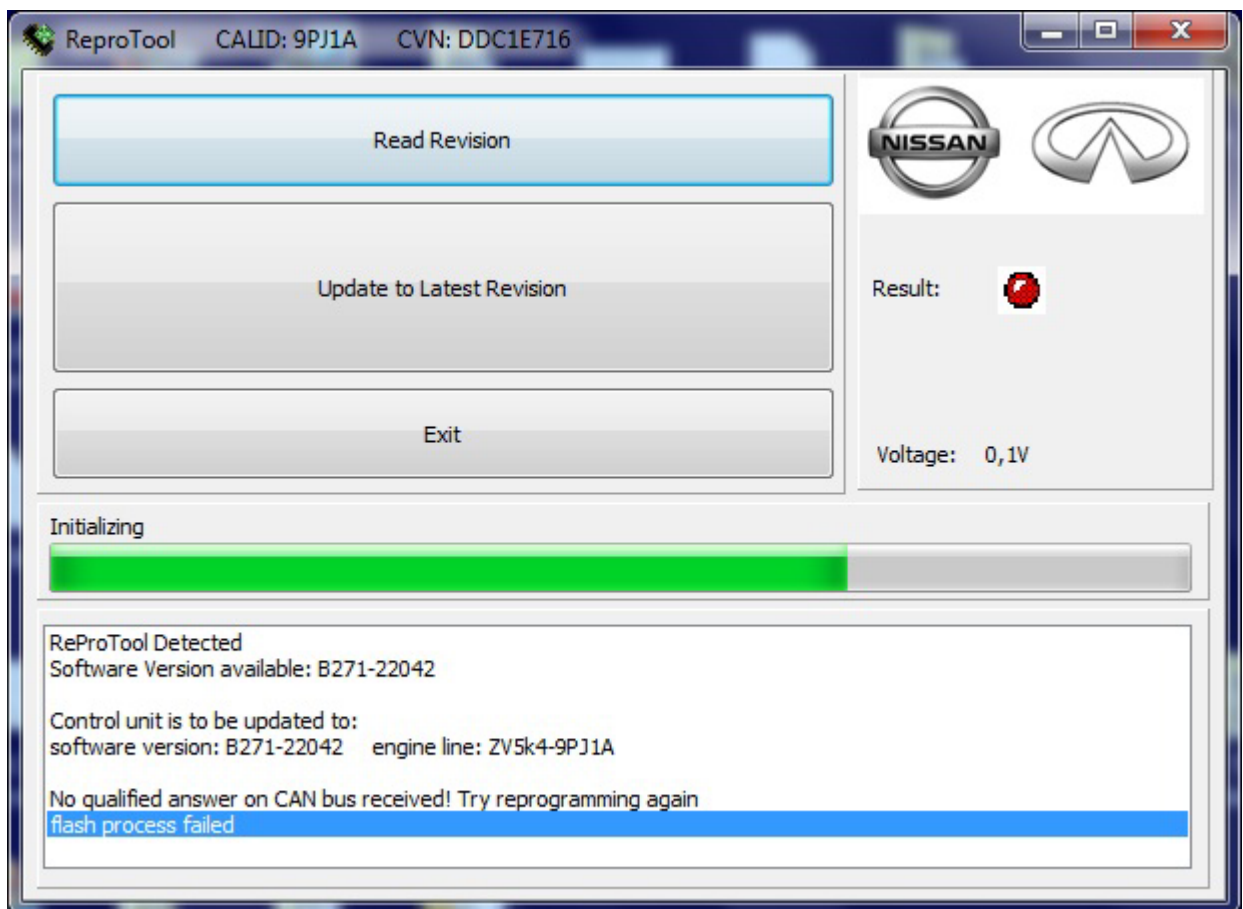


Figure 20

**CLAIMS INFORMATION**

Submit a "CM" line claim using the following claims coding:

CAMPAIGN ("CM") ID	DESCRIPTION	OP CODE	FRT
PC662	Reprogram Electric Intake Valve Timing (IVT) control module	PC6620	0.4 hrs.
	Reprogram not required	PC6621	0.3 hrs.

**AMENDMENT HISTORY**

PUBLISHED DATE	REFERENCE	DESCRIPTION
October 24, 2018	ITB18-036	Original bulletin published

