SERVICE CAMPAIGN BULLETIN

Reference:	Date:
NTB18-039	June 5, 2018

VOLUNTARY SERVICE CAMPAIGN
2016-2017 LEAF
LITHIUM-ION BATTERY CONTROLLER REPROGRAM

CAMPAIGN ID #: PC630
APPLIED VEHICLES: 2016-2017 LEAF (ZE0)

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

INTRODUCTION

Nissan is conducting this voluntary service campaign on certain specific model year 2016-2017 LEAF vehicles to reprogram the Lithium-Ion Battery Controller (LBC). This service will be performed at no charge to the customer for parts or labor.

IDENTIFICATION NUMBER

Nissan has assigned identification number PC630 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.

SERVICE PROCEDURE

HV BATTERY (Lithium Ion Battery Controller) module update

1. **Before continuing, it is IMPORTANT to make sure:**

   - ASIST on the CONSULT PC has been synchronized (updated) to the current date.
   - All CONSULT-III plus (C-III plus) software updates (if any) have been installed.
   - The CONSULT PC is connected to the Internet (Wi-Fi or cable).

   CAUTION: Disconnect Electric Vehicle Service Equipment (EVSE). Do not charge the High Voltage (HV) Lithium Ion battery during Reprogramming.

   NOTE: Check to see if the timer for either charging or climate control is ON. If ON, turn it OFF and make sure to turn it back on after reprogramming.

CAUTION:

- Connect the GR8 to the 12V battery and set to ECM power supply mode.
  If the vehicle battery voltage drops below 12.0V or above 15.5V during reprogramming, the LBC may be damaged.

- Be sure to turn OFF all vehicle electrical loads.
  If a vehicle electrical load remains ON, the LBC 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 LBC may be damaged.

- Turn OFF all external Bluetooth® devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the plus VI. If Bluetooth® signal waves are within range of the CONSULT PC during reprogramming, reprogramming may be interrupted and the LBC may be damaged.
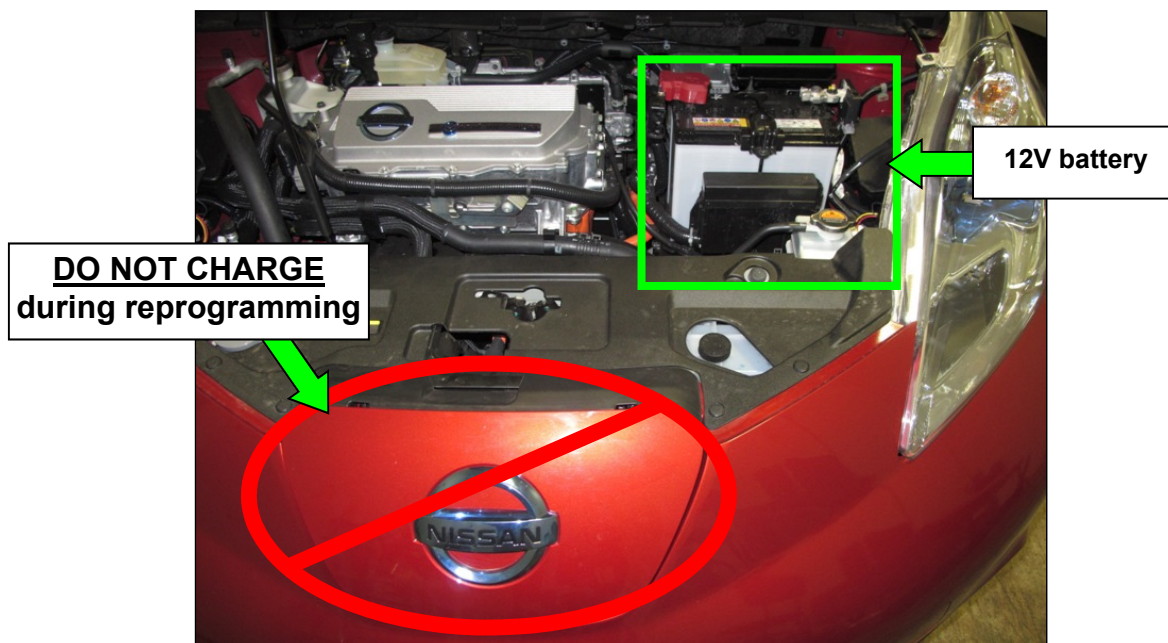

Figure A

2. Once all ASIST and CONSULT related updates have been performed, connect the CONSULT PC to vehicle.

   • Connect the plus VI to the vehicle and then to the Consult PC with the USB cable.
   • Connect the AC adapter to the CONSULT PC.

3. Turn ON the CONSULT PC, and then open C-III plus.

   • Turn OFF any screen savers that are on the CONSULT PC.

4. Set parking brake.

5. Depress the vehicle's power ("ignition") switch twice without depressing the brake pedal.

   • The meter and gauges will illuminate.

     CAUTION: Do Not set the vehicle in "READY to drive" mode.

     NOTE: Make sure all accessories are turned OFF.

6. After the plus VI is recognized, select **Diagnosis (All Systems)** and then **Confirm**.

   • After system call has completed erase all DTCs.

   • Repair any DTCs that cannot be erased prior to performing this reprogramming.

     NOTE: DTC diagnosis and repair is not covered under this campaign.

7. Select the **Home** button and then **YES** to return to the screen shown in Figure 1, and then select **Re/programming, Configuration.**

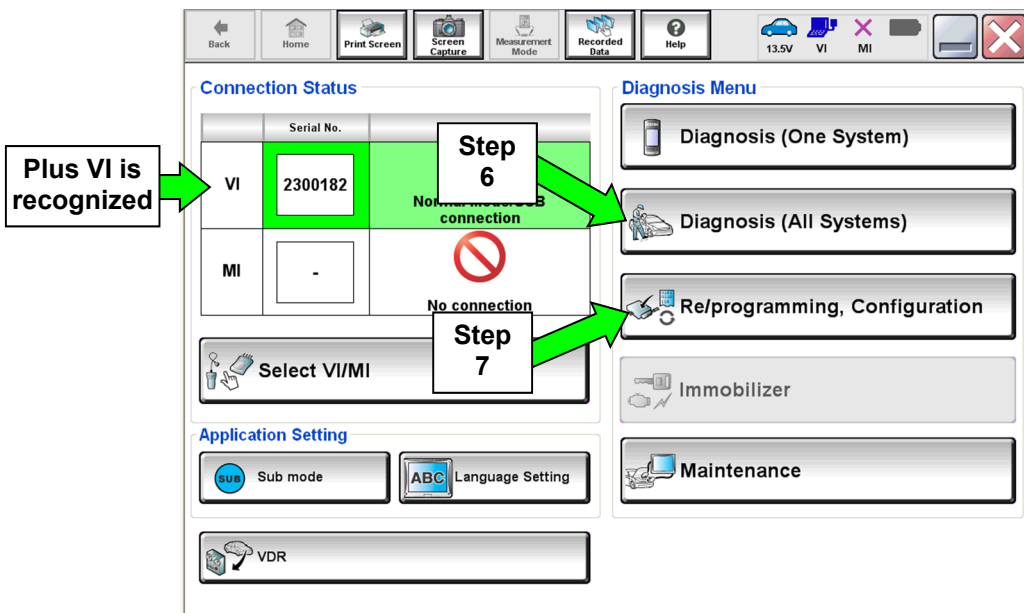   **NOTE:** Make sure all applications other than ASIST and C-III plus are closed.

Figure 1

8. Check mark box for **Confirmed Instructions** (circled in green) by selecting it, and then select **Next**.
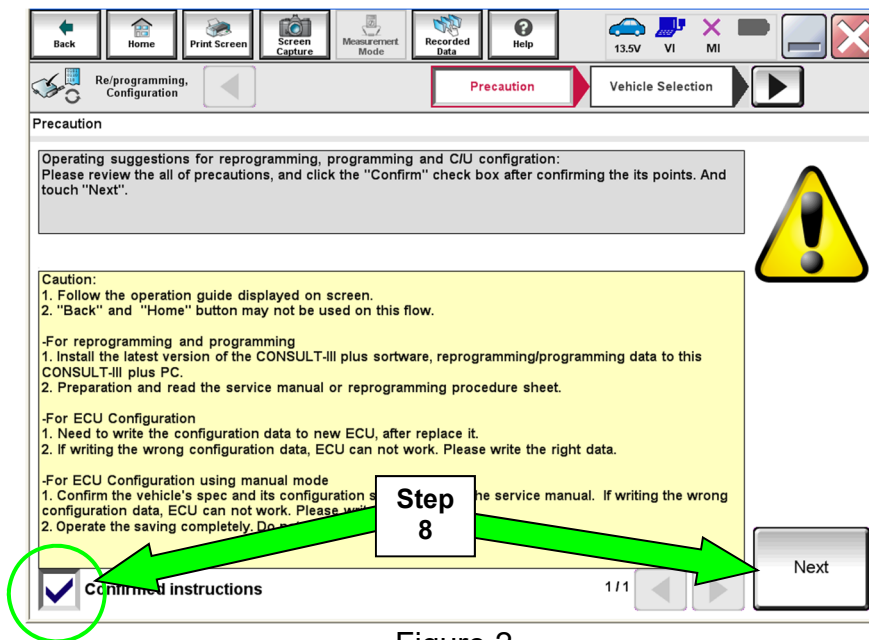

Figure 2

9. Select **LEAF** and **2016** or **2017,** or **Automatic Selection(VIN)**.

- If **Automatic Selection(VIN)** is selected, wait for the **Reading VIN** screen to complete (picture not shown).
- If the screen in Figure 3 does not display, skip to step 11.
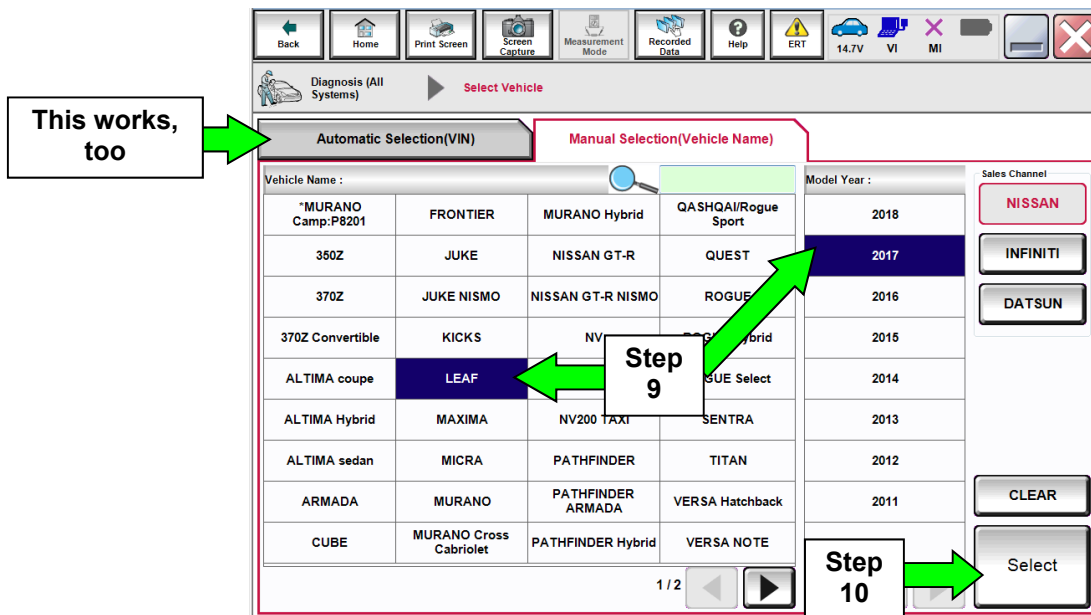
10. Select **Select**.

Figure 3

11. Verify the VIN in **VIN or Chassis #** matches that of the vehicle.

- If the correct VIN is displayed, select **Confirm**.
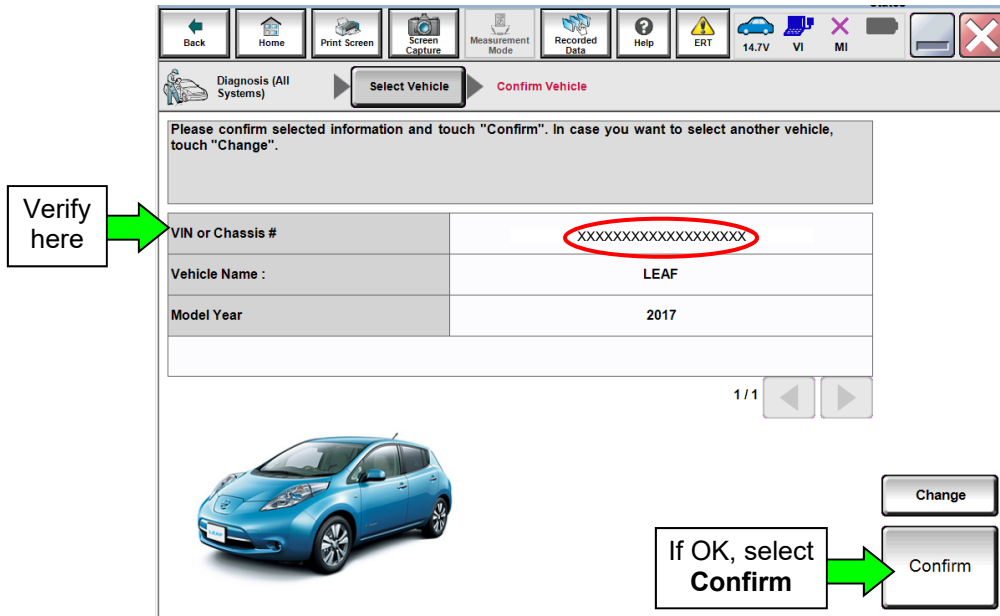
Figure 4

12. Select **Confirm** again.
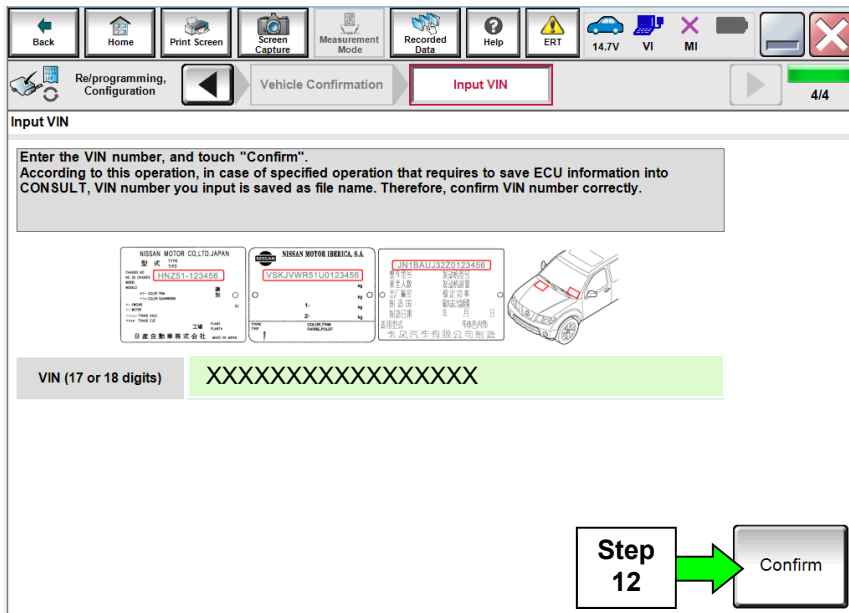
Figure 5

13. Select **HV BATTERY.**

- Wait for System Call to complete.
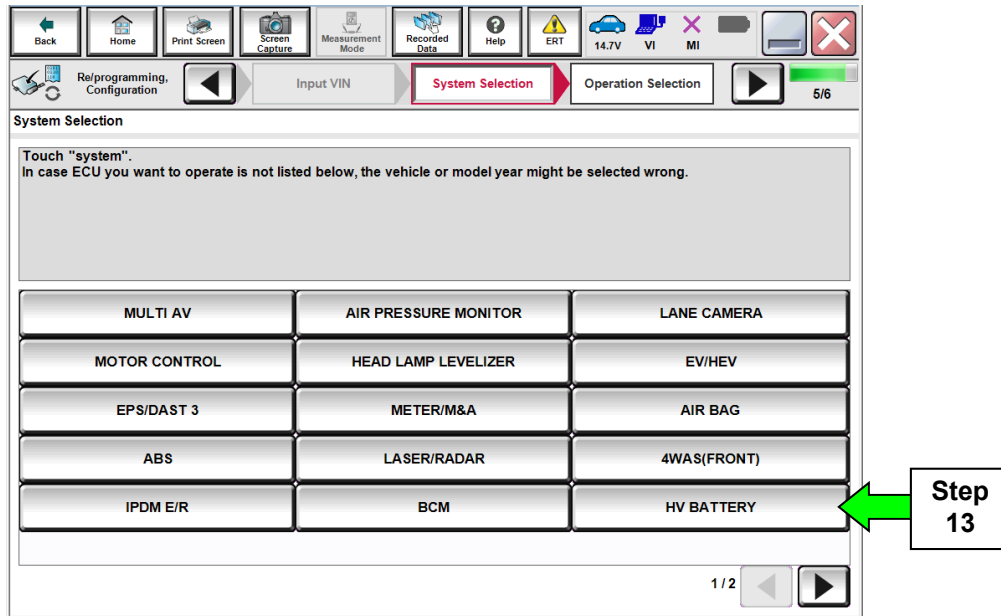
Figure 6

14. Select **Reprogramming**.
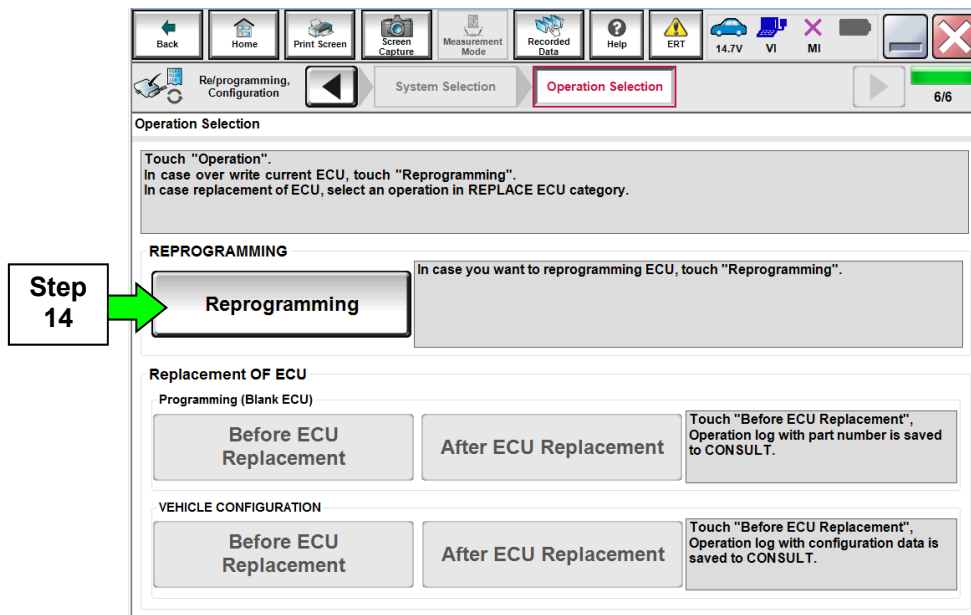
Figure 7

15. Write down the **Part Number** on the vehicle's repair order from Figure 8 and confirm if it matches one of the part numbers in Table "A" below.

Table A

MODEL YEAR	CURRENT HV BATTERY PART NUMBER: 293A0-
2016-2017 LEAF (ZE0)	4NP4A, 4NP4B 4NP5A, 4NP5B

- If the HV BATTERY part number is one of the part numbers listed in the table above, continue with reprogramming.

  ➢ Select **Save**, and then go to Step 16.

- If the HV BATTERY part number **is not** in the table above, this <u>campaign does not apply</u> or it has already been done. Recheck Service Comm or DBS for campaign eligibility.

Figure 8

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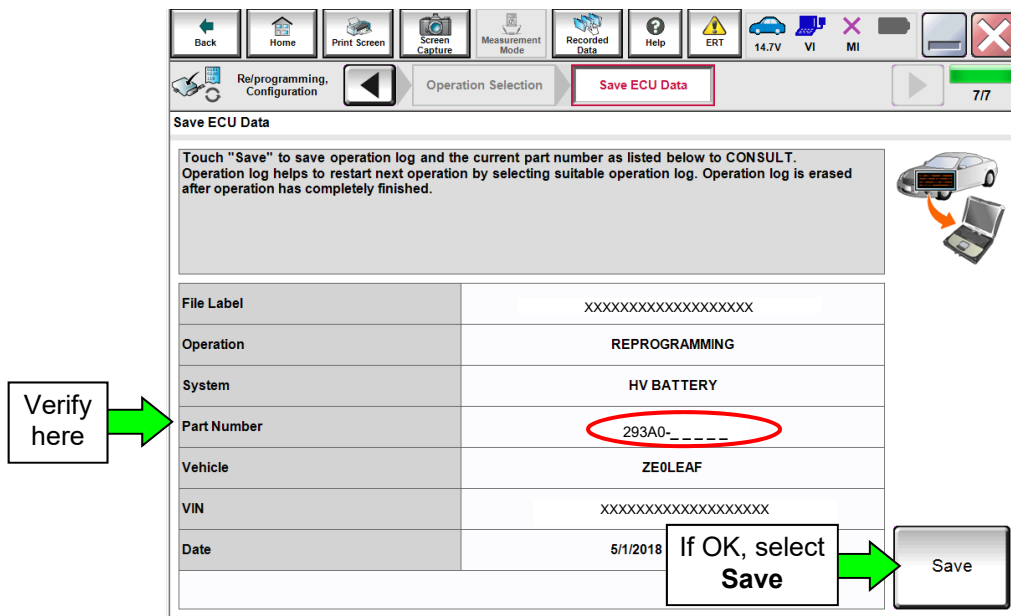
16. Read the precautions on page 1, and then select page 2 (page 2 not shown) with arrow. After reading page 2, select **Confirmed instructions**, and then select **Next**.
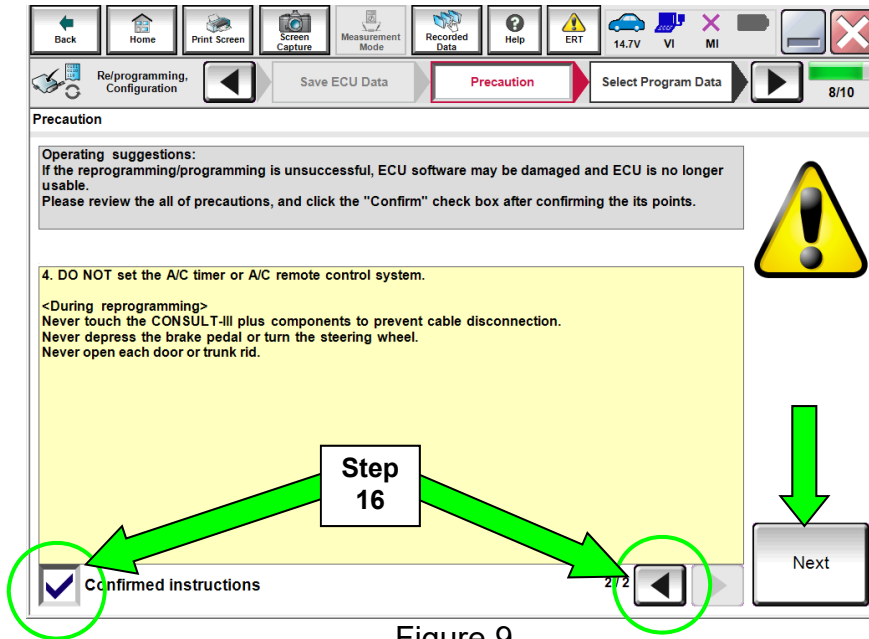
Figure 9

NOTE: In some cases, more than one new P/N for reprogramming is available.

➢ In this case, the screen in Figure 10 will display.

➢ 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 may mean that there is no reprogramming available for this vehicle, this <u>campaign does not apply</u> or it has already been done. Recheck Service Comm or DBS for campaign eligibility.

Figure 10

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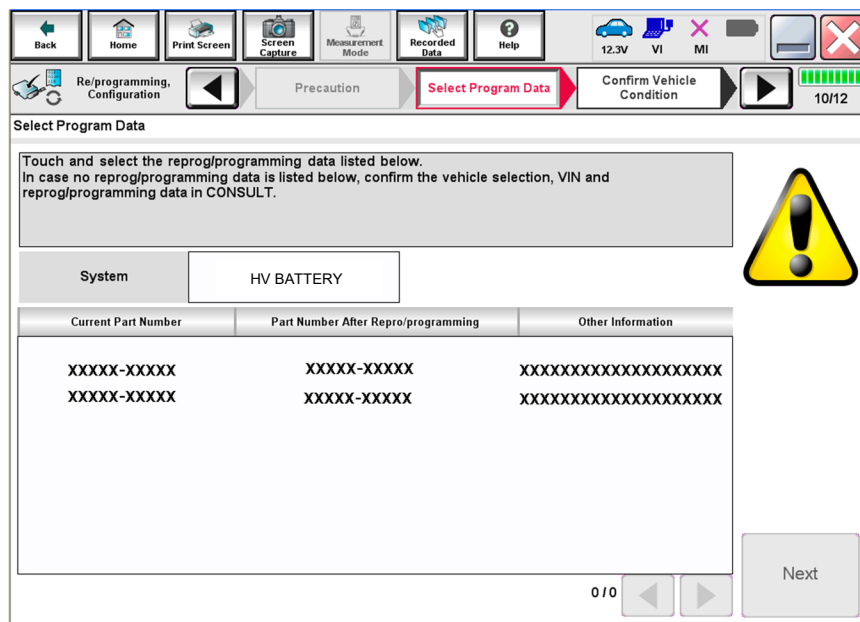
17. Verify the **Current Part Number** matches the Part Number written down in step 15, and then select **Next**.
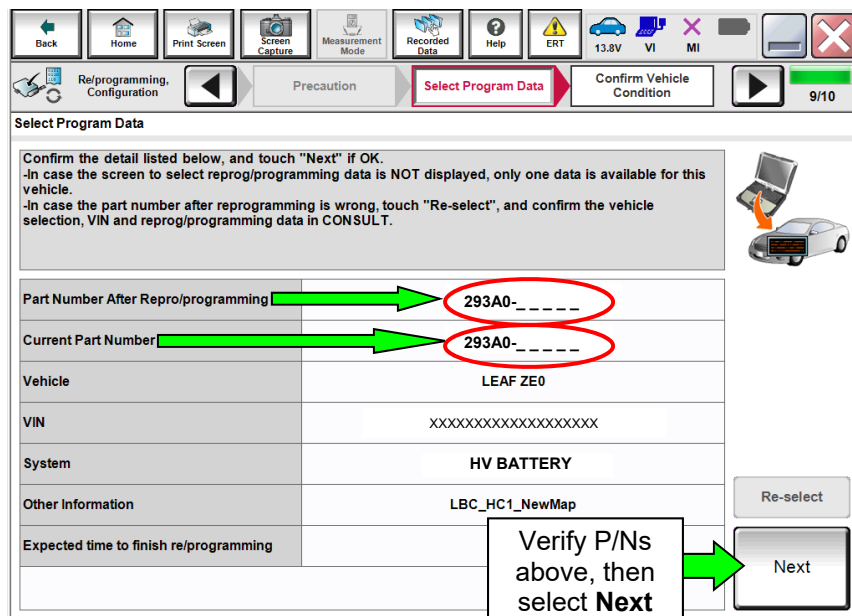
Figure 11

18. If the screen in Figure 12 appears, first select **Delete** then **Confirm,** and then **Other Operation**.

- This will erase the **Saved Data List** and restart the reprogram from step 13.

- If no **Saved Data List** is stored Figure 14 will be displayed. Proceed to step 19.
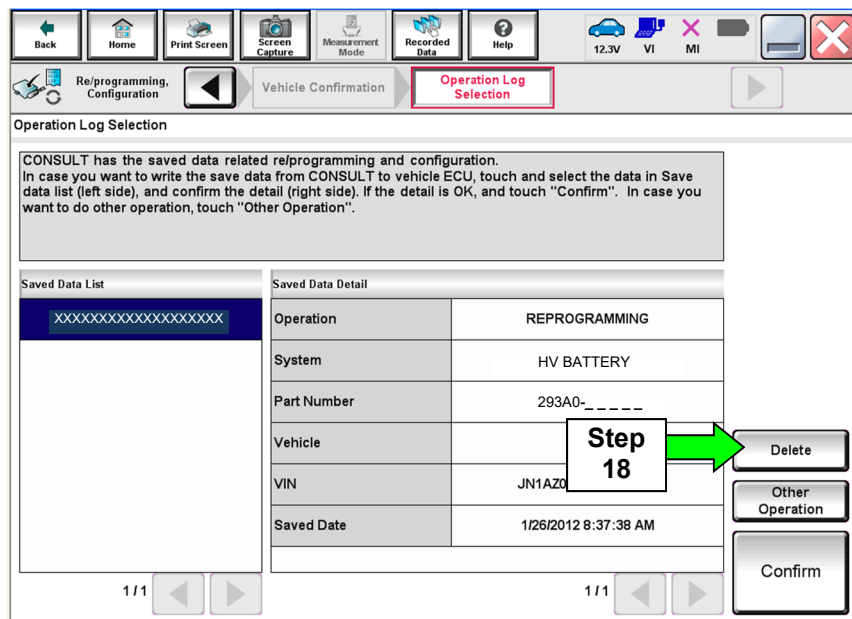

Figure 12

19. Confirm battery voltage is correct, and then select **Next**.

    NOTE: Battery voltage must stay within specified range to make the indicator turn green.
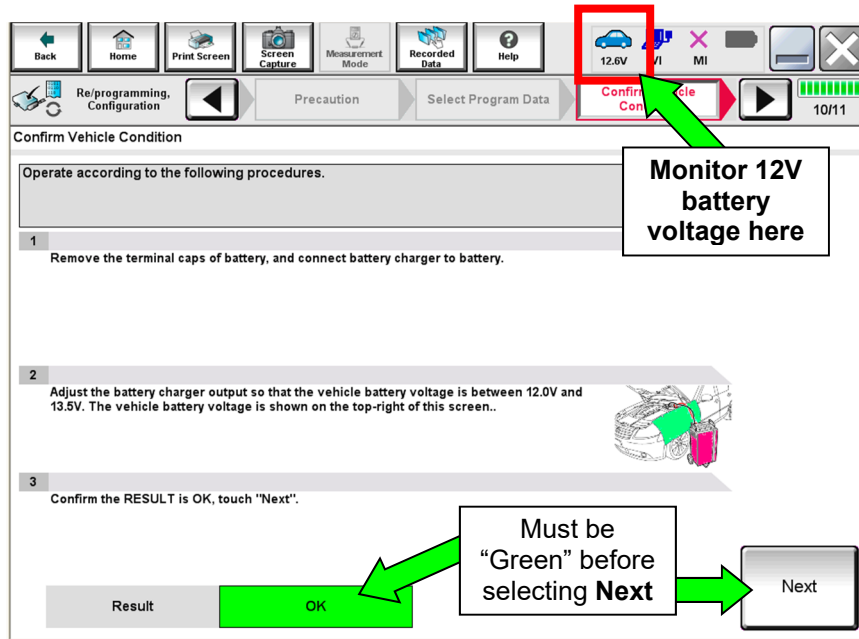
Figure 14

20. With battery voltage in the green, select **Start**.

    NOTE: For reprogramming to continue, vehicle 12V battery voltage must stay within 12 volts and 15.5 volts. Make sure the voltage level is sufficient.

Figure 15
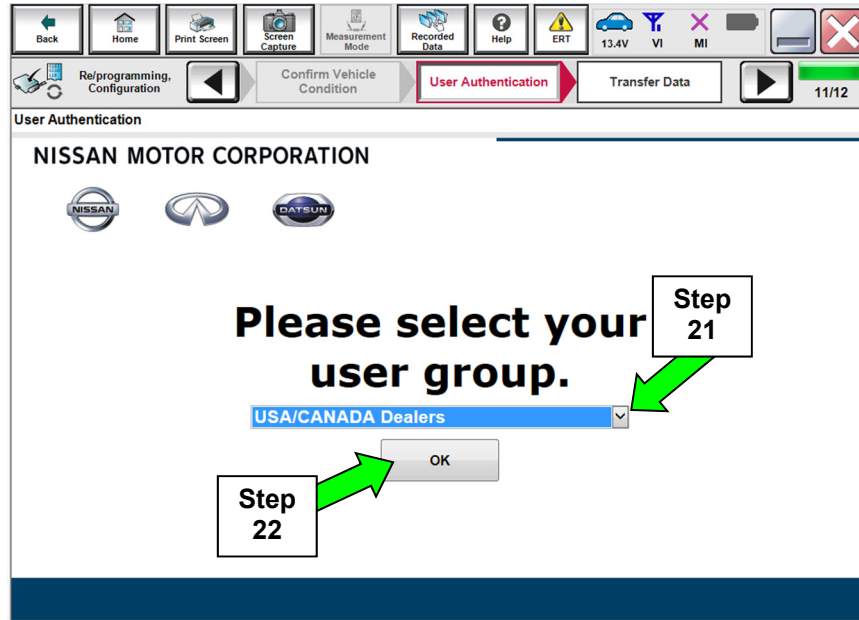
NTB18-039
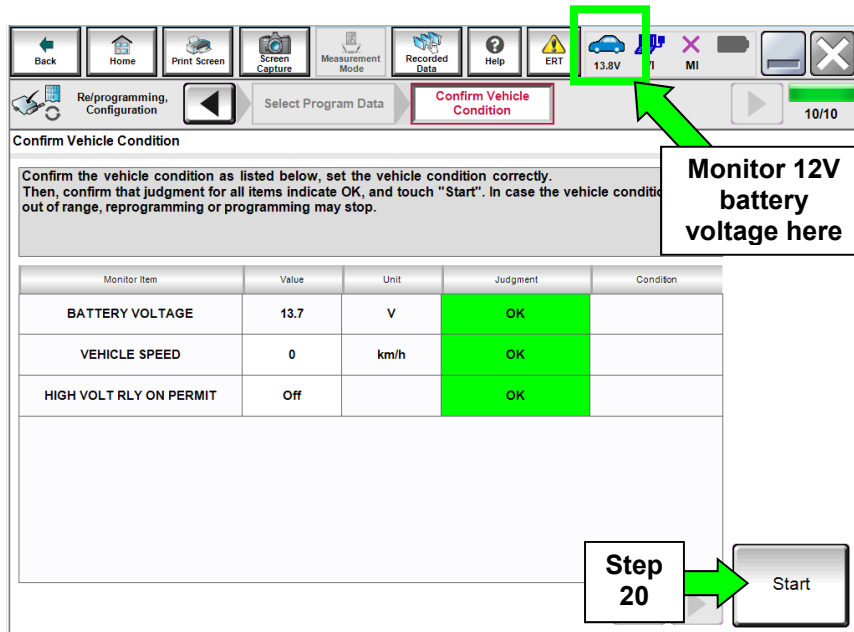
21. Select **USA/CANADA Dealers**.

22. Select **OK**.

Figure 16

NOTE:

- The above screen may not display if the CONSULT PC has remained on since the last reprogramming.

- If the CONSULT PC is not connected to the Internet, the screen in Figure 17 will display.

Figure 17

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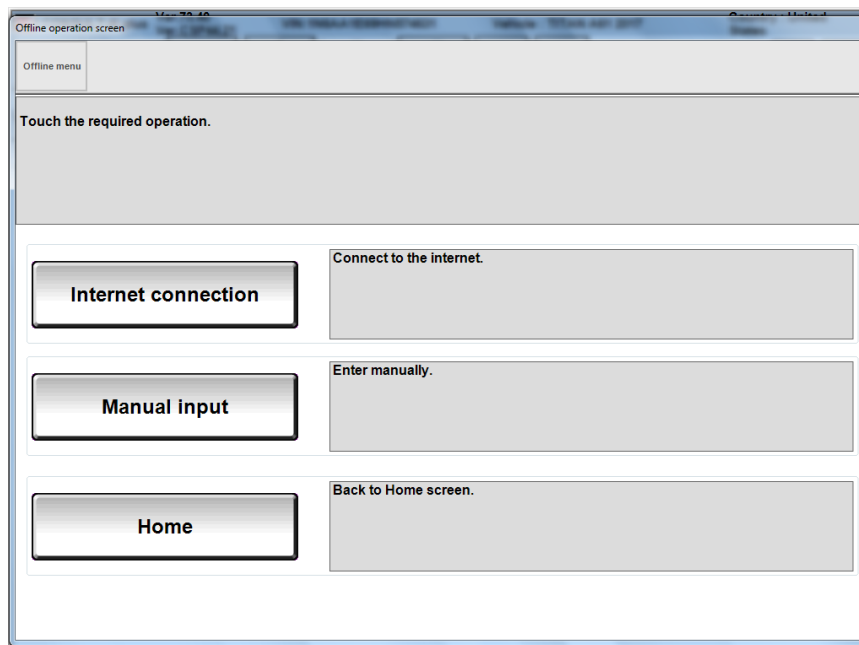
NOTE: In the next steps, the reprogramming process will begin when **Submit** is selected.

23. Enter your **Username** and **Password**.

   • The CONSULT PC must be connected to the Internet via cable or Wi-Fi.

   • If you do not know your User Name and Password, contact your Service Manager.

24. Select **Submit**.
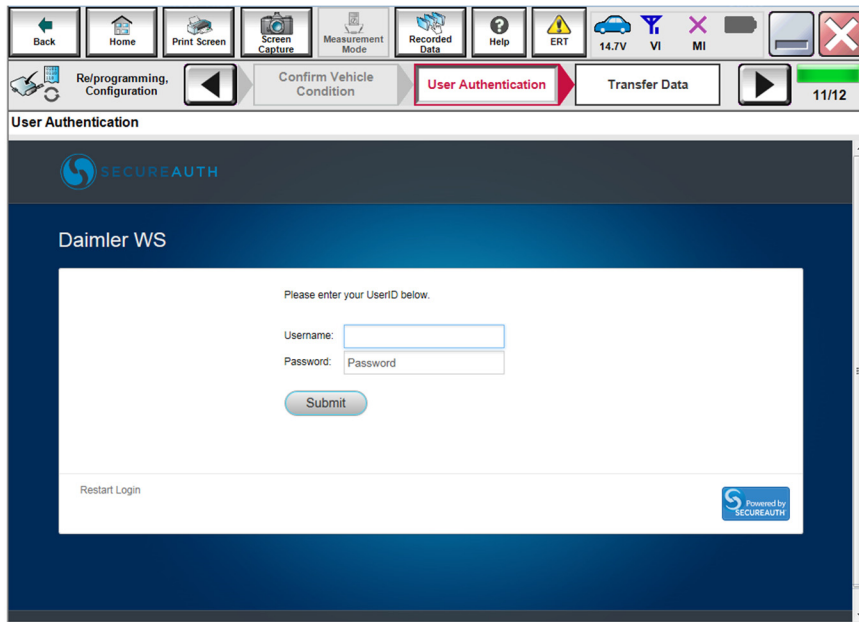
Figure 18

25. Wait for both bar graphs to complete.

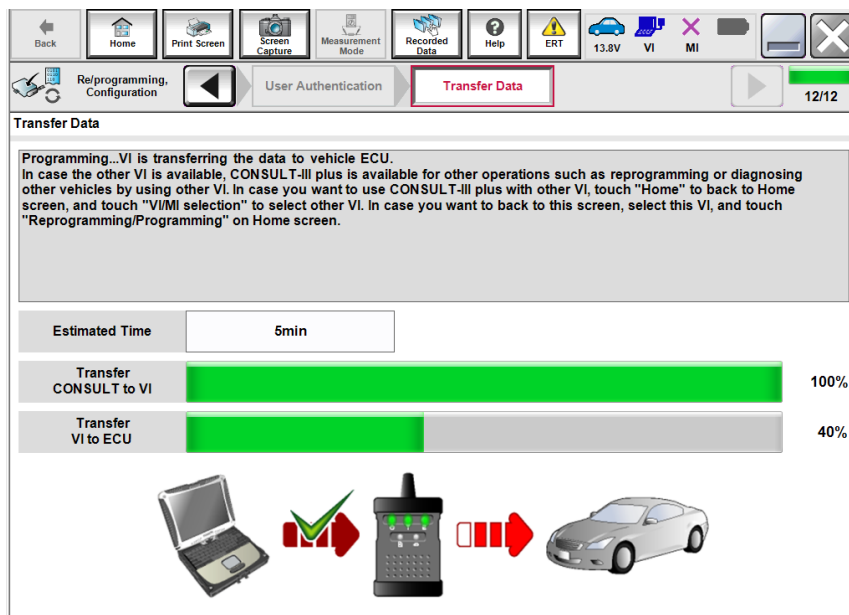   **NOTE:** If the message "You may disconnect CONSULT and VI" is displayed, do <u>NOT</u> disconnect the USB cable.

Figure 19

26. When the screen in Figure 20 appears, reprogramming is complete.

   a. Select **Next** and wait for System Call to complete.

   b. Proceed to step 27 on page 15 to erase DTCs.
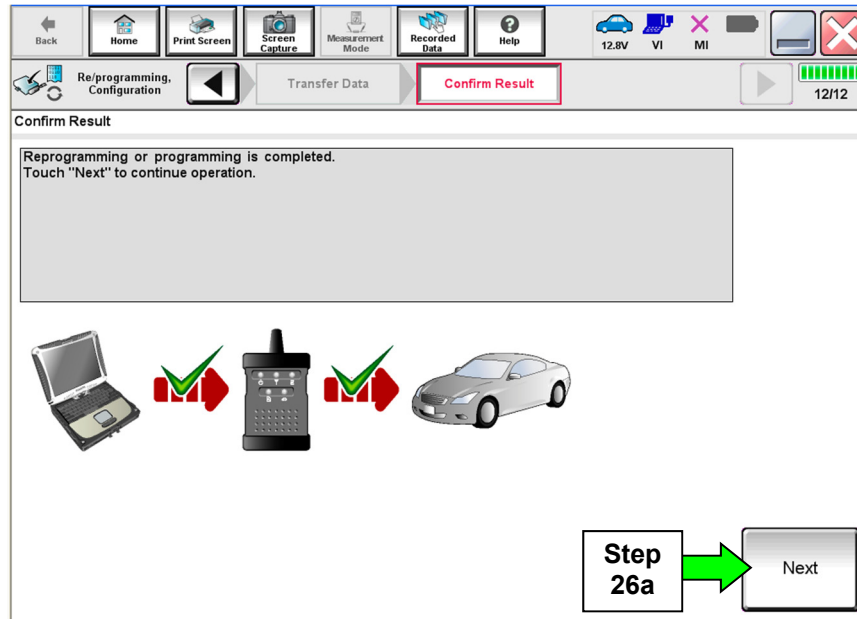
Figure 20

NOTE: If the reprogram will not complete, see the next page (page 14) to **RETRY** the reprogram update.

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HV BATTERY (Lithium Ion Battery Controller) module recovery

CAUTION: If reprogramming does <u>not</u> complete and the **!?** displays as shown in Figure 21:

- Check battery voltage (12.0 – 15.5V).
- Ignition is ON, Ready Mode 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>.
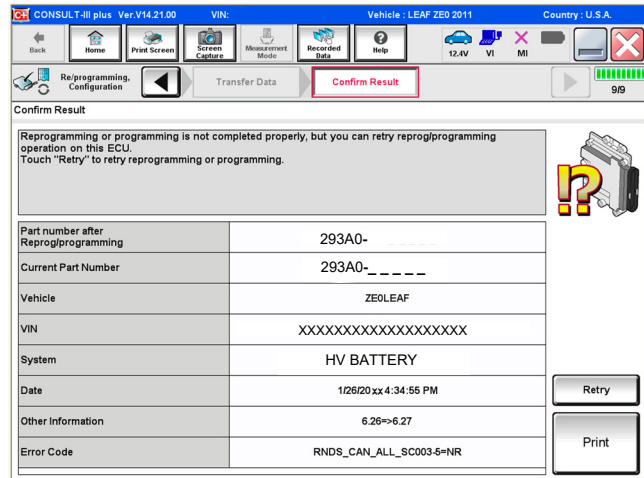
Figure 21

OR: If reprogramming does <u>not</u> complete and the **X** displays as shown in Figure 22:

<u>Do not disconnect plus 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, Ready Mode is OFF.
- Transmission in Park.
- All C-III plus / plus VI cables are securely connected.
- All C-III plus updates are installed.
- **Select <u>Home</u>, and then restart the reprogram procedure from the beginning.**
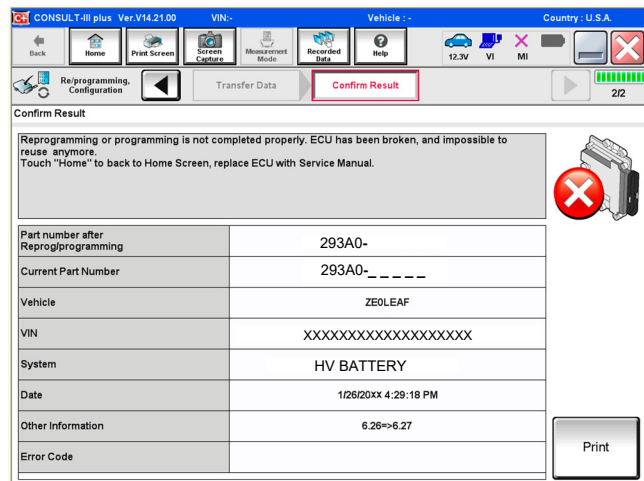
Figure 22

27. Erase all DTCs:

a. Turn "ignition" OFF by depressing the power switch once.

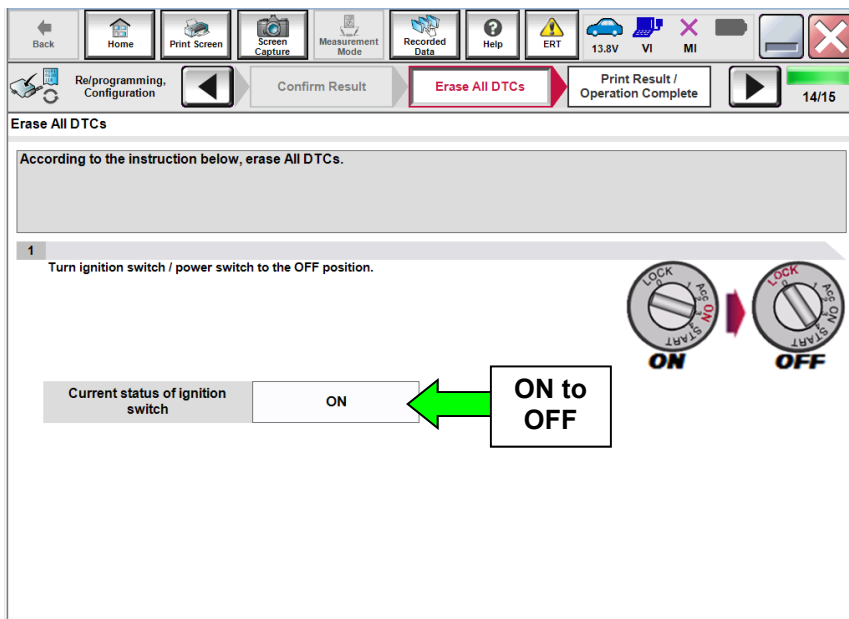- The screen in Figure 23 will read **OFF** after pressing the power switch <u>once</u>.

Figure 23

b. <u>Wait 1 minute with the ignition **OFF**</u>.

c. Turn "ignition" ON by depressing the power switch twice.
- Do not step on the brake pedal when depressing the power switch.
- The screen in Figure 24 will read **ON** after pressing the power switch <u>twice</u>.

NOTE: Do not be confused by any screen messages. At this point, simply turn the "ignition" ON.
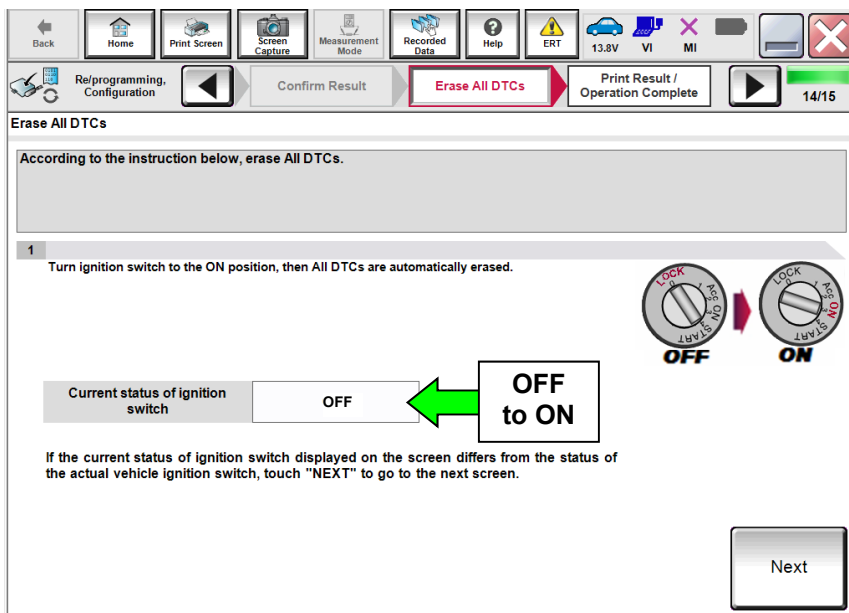
Figure 24

d. Wait for the bar graph in the **ERASE** window to complete 100%.
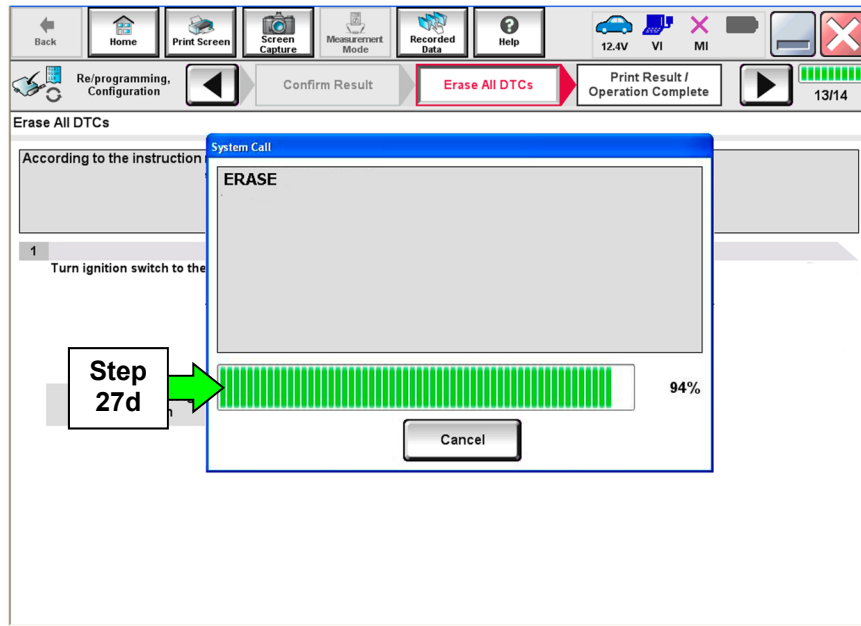
Figure 25

28. Verify the part number has changed.

a. Print a copy by selecting **Print**.

b. Attach the copy to the repair order.

c. Once a copy has been printed, select **Confirm**.
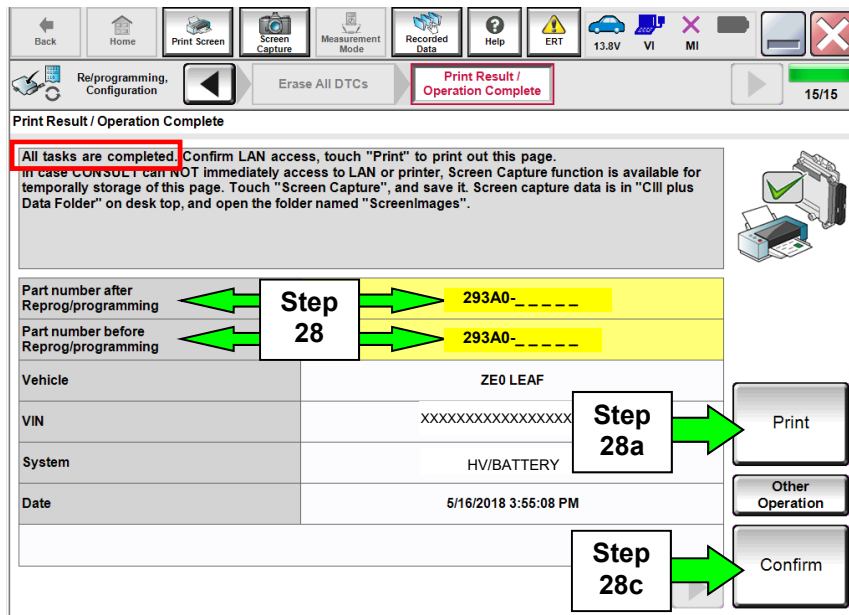
Figure 26

29. After Confirmation has completed, select **Home**.
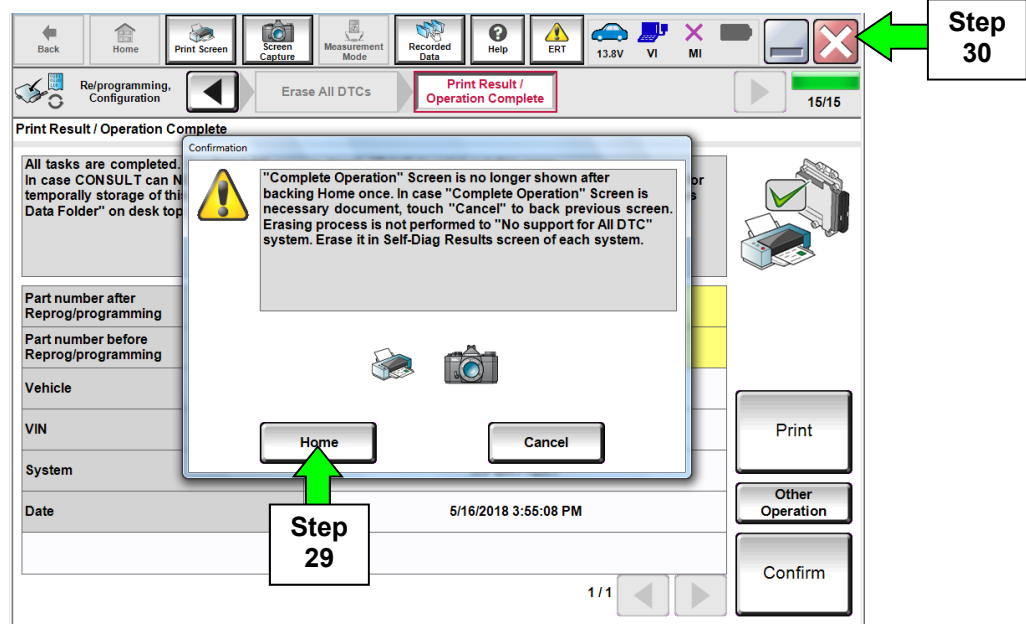

Figure 27

30. Close C-III plus by selecting "X" in Figure 27.

- <u>Do not</u> turn OFF the CONSULT PC.

31. Turn the ignition OFF.

32. Disconnect the GR8 from the 12 volt battery.

33. Place the vehicle in "READY to drive" mode:

- Apply the parking brake.
- Depress the brake pedal.
- Depress the power switch <u>once</u>.
- The meter and gauges will illuminate.
- Ready light ON.

34. Open C-III plus.

35. Once the plus VI is recognized, select **Diagnosis (All Systems)**.

Plus VI recognized
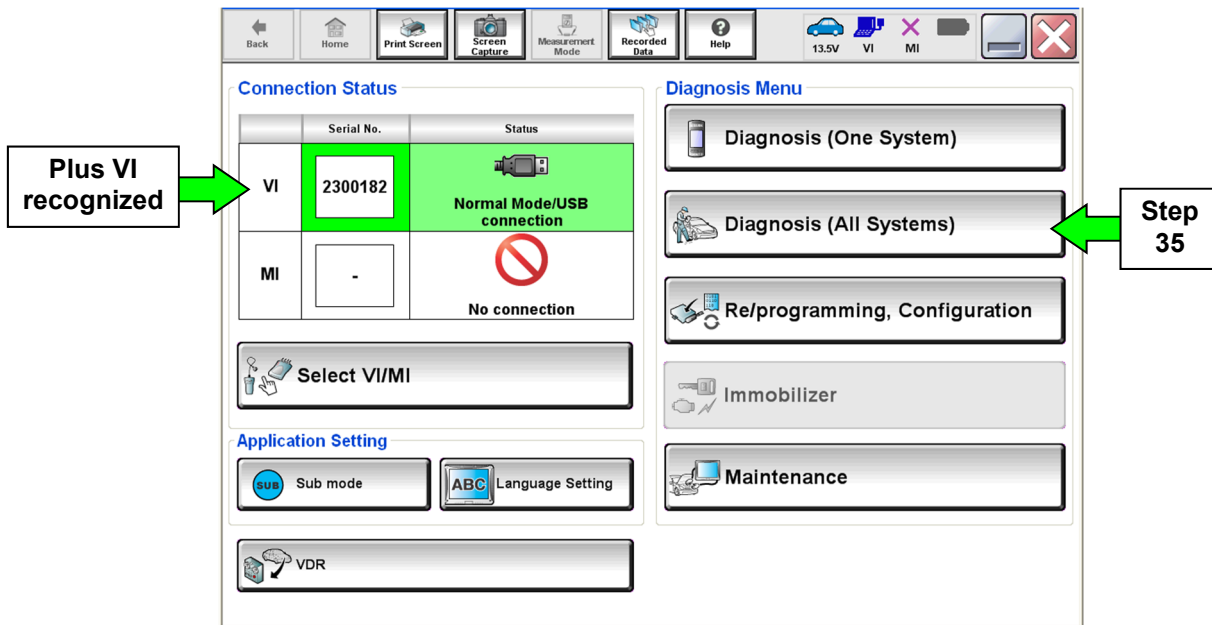
Step 35

Figure 28

36. Select **LEAF** and **2016** or **2017,** or **Automatic Selection(VIN)**.

- If **Automatic Selection(VIN)** is selected, wait for the **Reading VIN** screen to complete.
- If the screen in Figure 29 does not display, skip to step 38.

37. Select **Select** or **Detect Vehicle**, whichever displays.

This works, too

Step 36

Step 37: May display **Detect Vehicle**
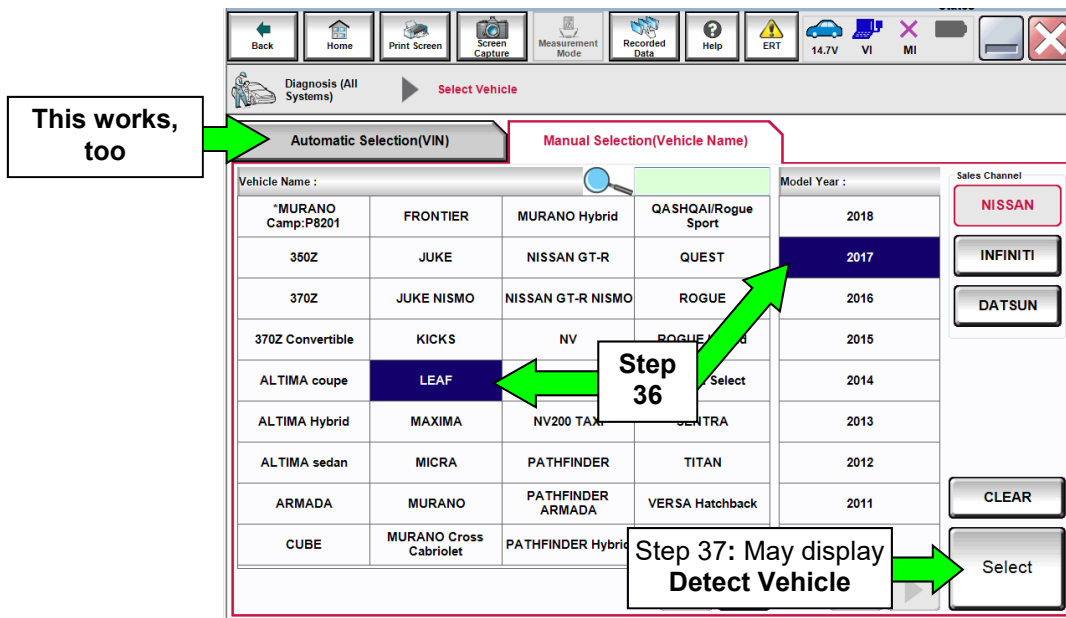
Figure 29

38. Verify the VIN in **VIN or Chassis #** matches that of the vehicle.

- If the correct VIN exists, select **Confirm**.
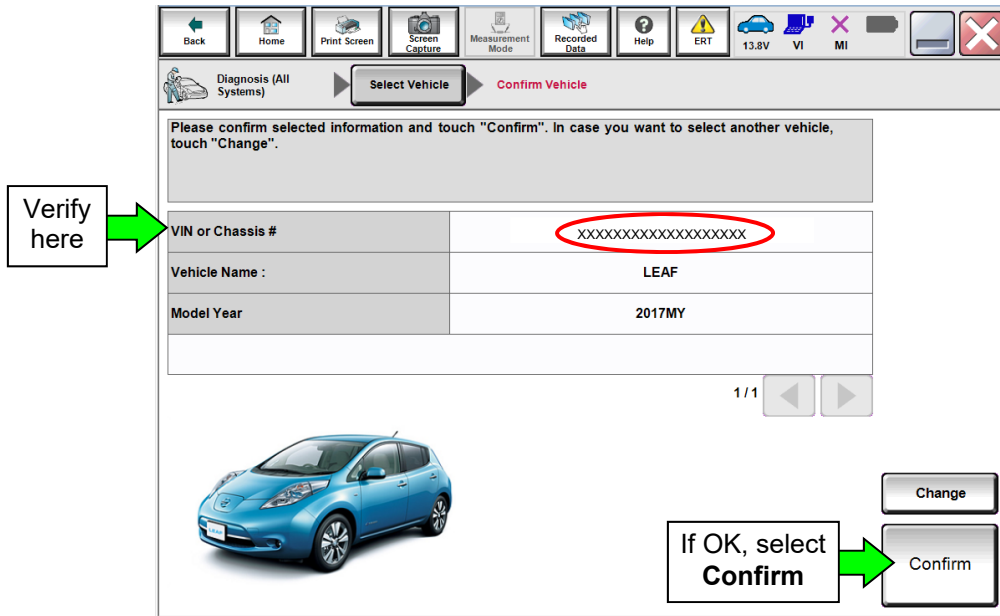
Figure 30

39. Wait for System Call to complete.
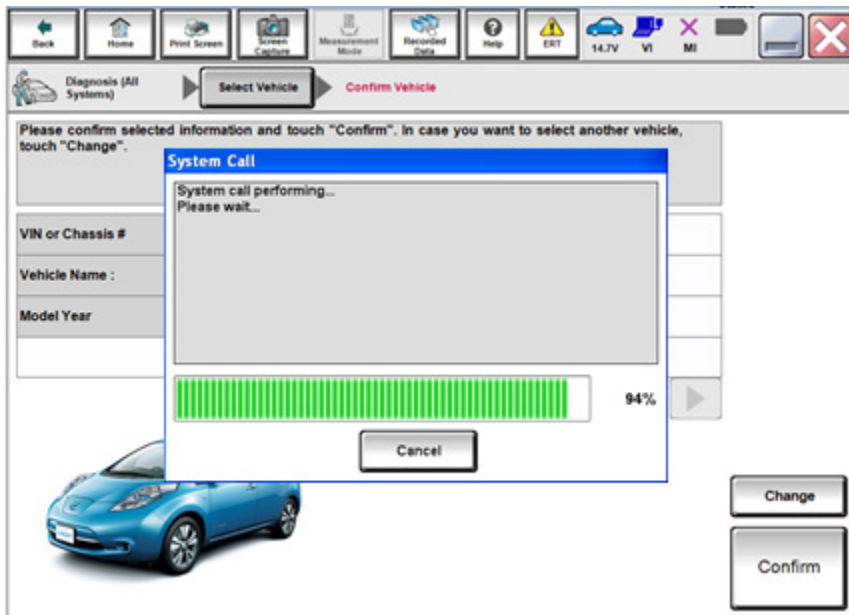
Figure 31

40. If DTCs are present, select **ERASE**.

- If no DTCs are present, skip to Step 43.
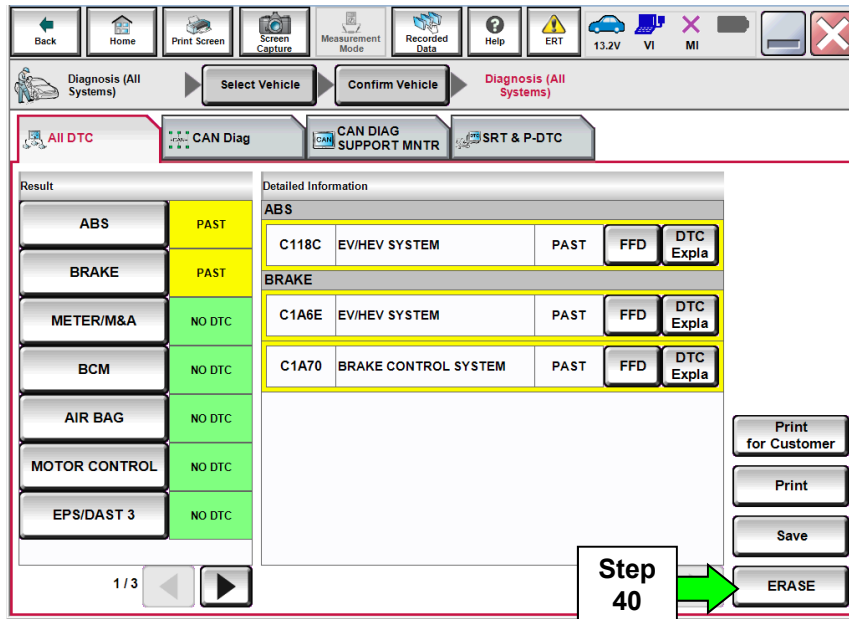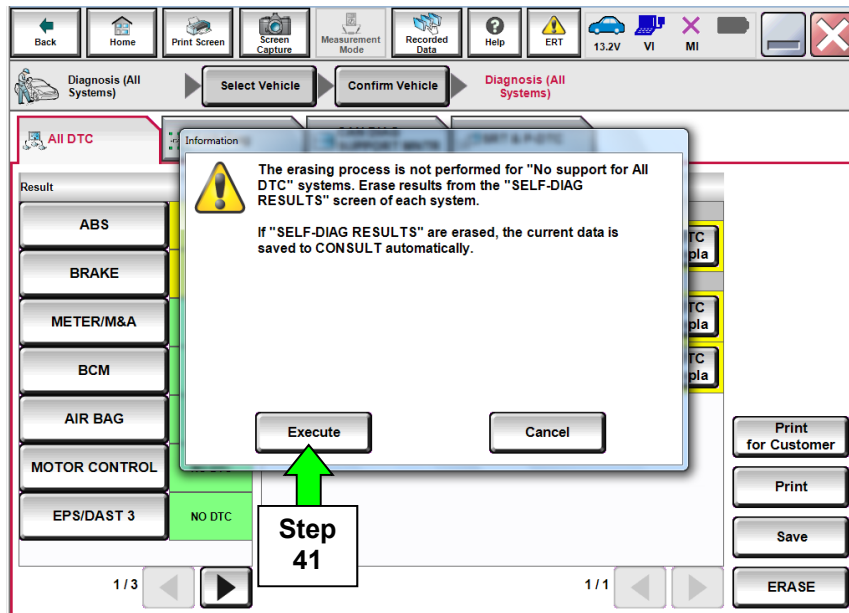

Figure 32

41. Select **Execute**.
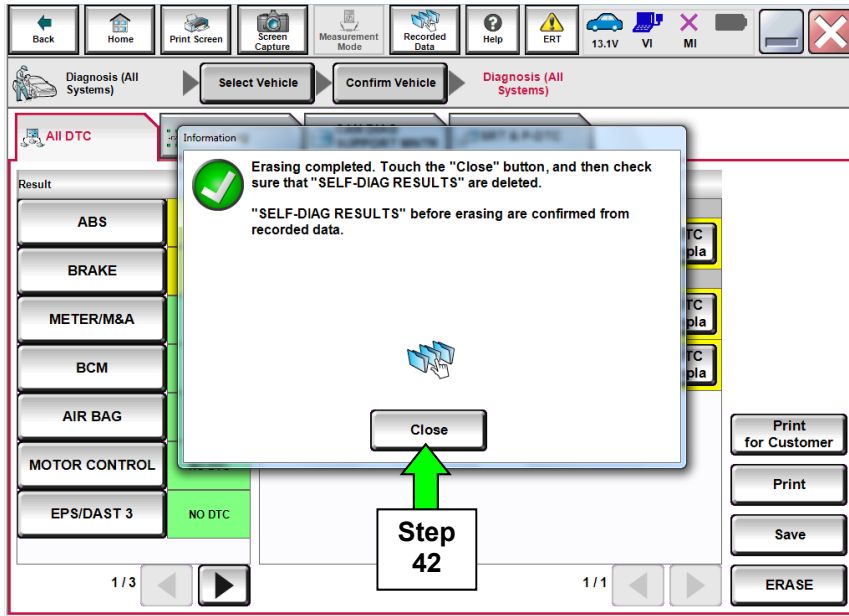

Figure 33

42. Select **Close**.

Figure 34

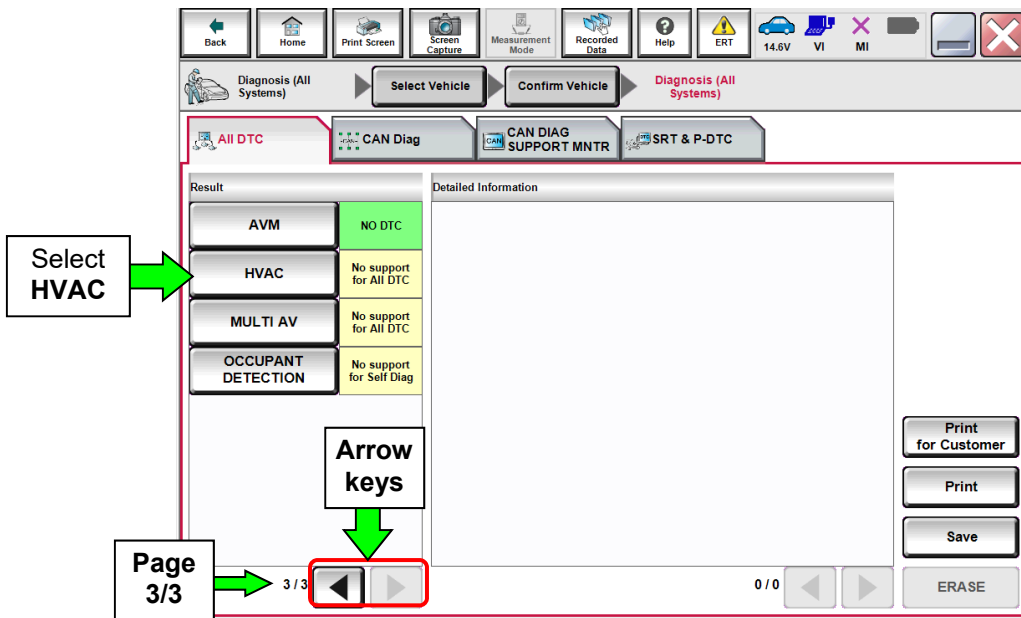43. Using the arrow keys, select Page **3/3**, and then select **HVAC**.
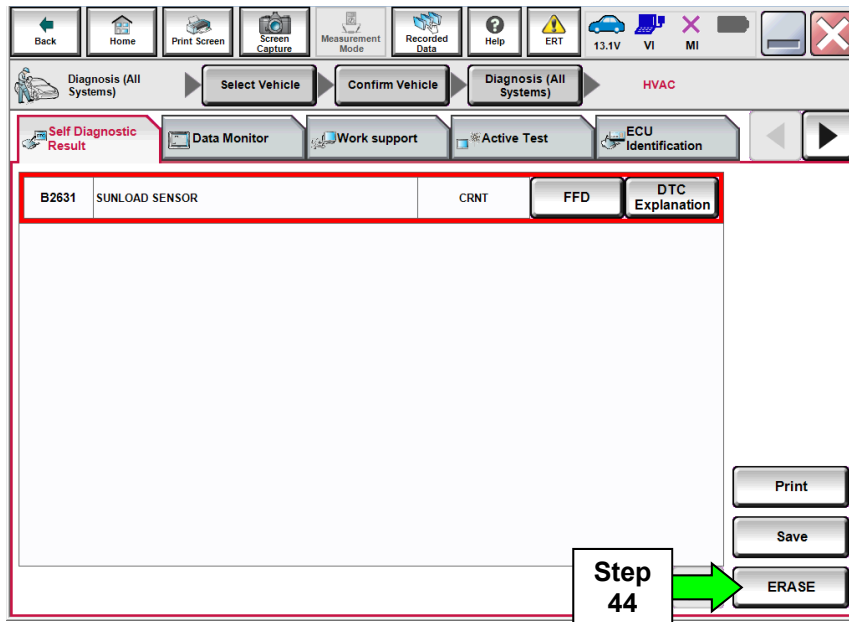

Figure 35

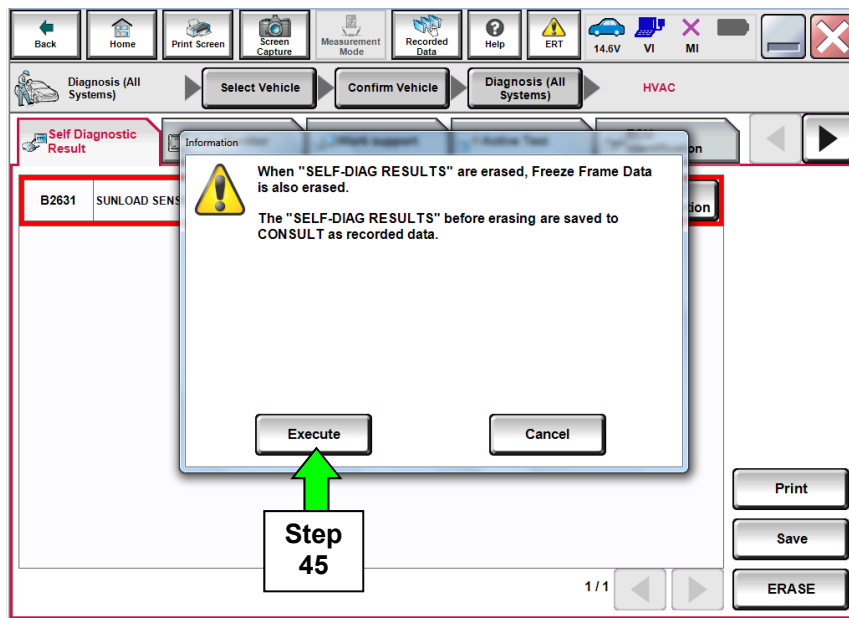44. Select **ERASE**.

Figure 36

45. Select **Execute**.

Figure 37

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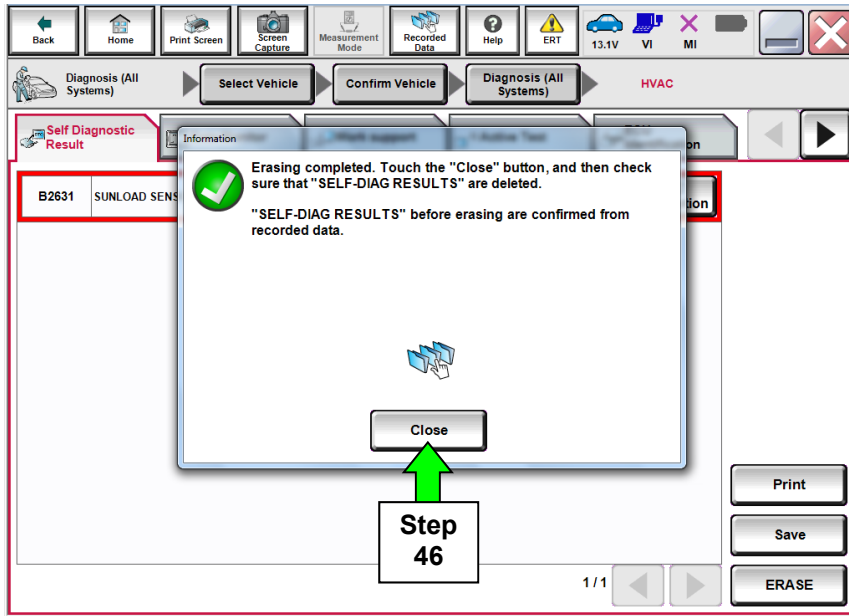46. Select **Close**.

Figure 38

NOTE: If DTC B2631 (SUNLOAD SENSOR) sets again, this is okay.
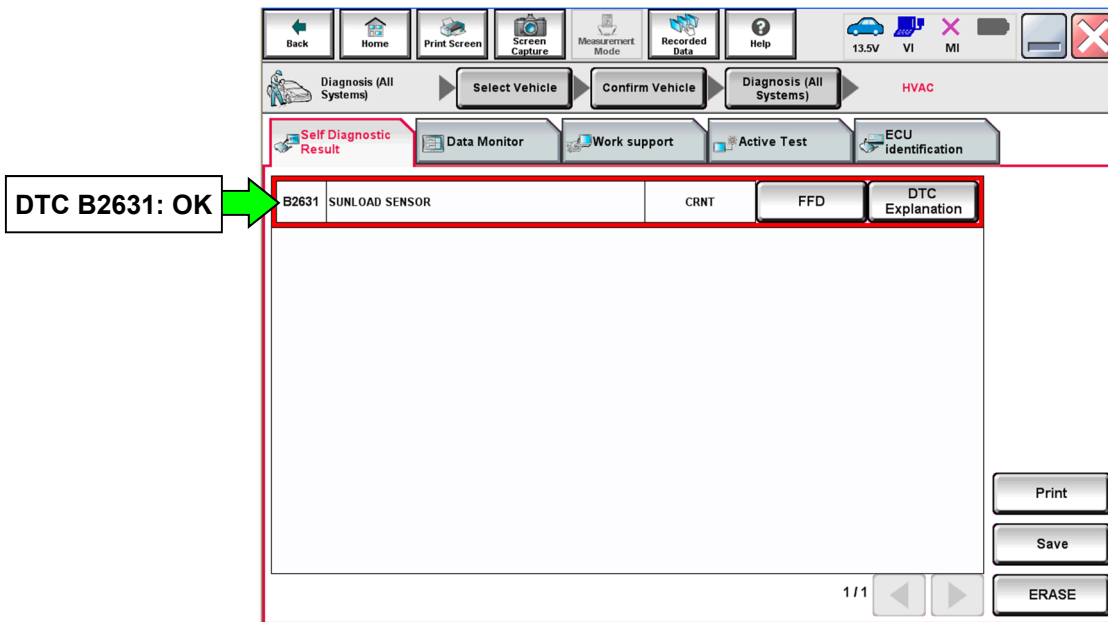

Figure 39
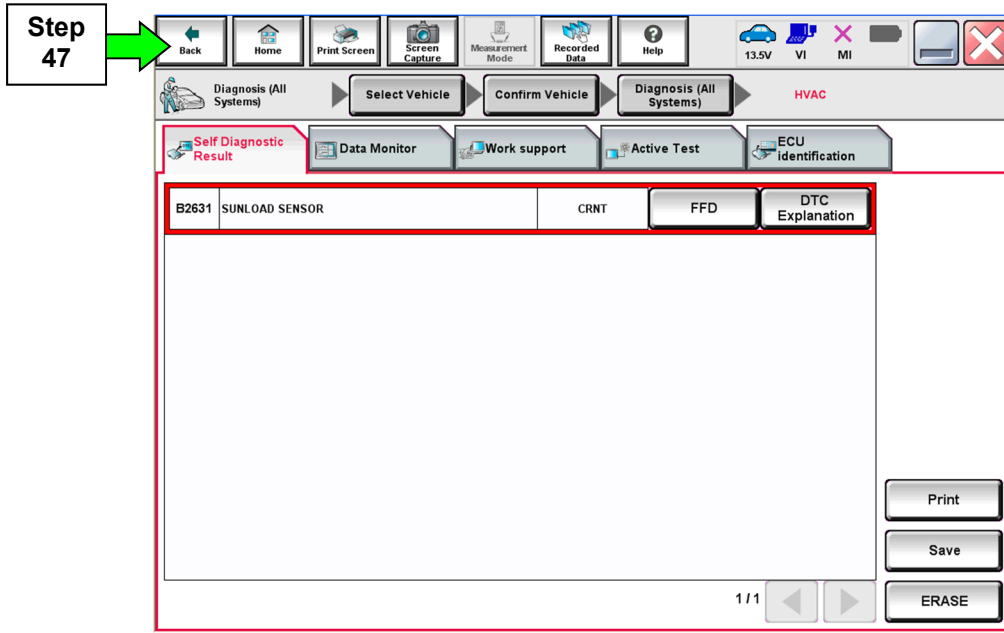
47. Select **Back**.

Figure 40

48. Using the arrow keys, go to Page **3/3**, and then select **MULTI AV**.
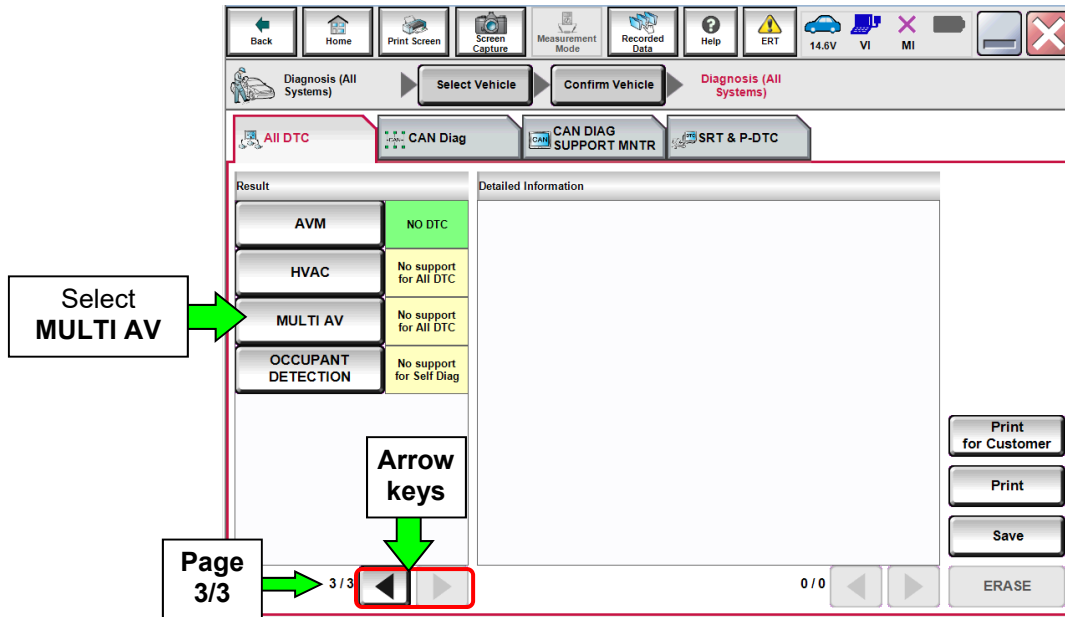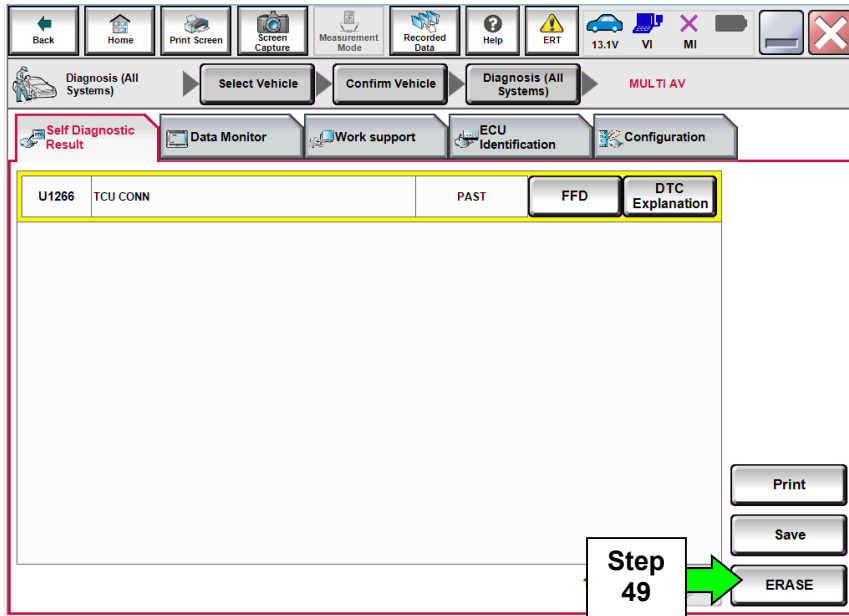

Figure 41

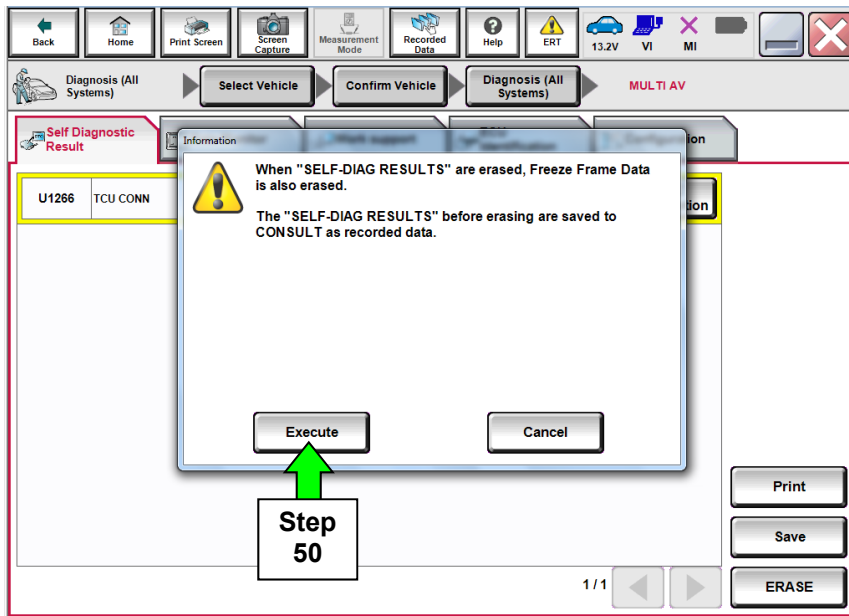49. Select **ERASE**.

Figure 42

50. Select **Execute**.

Figure 43

51. Select **Close**.
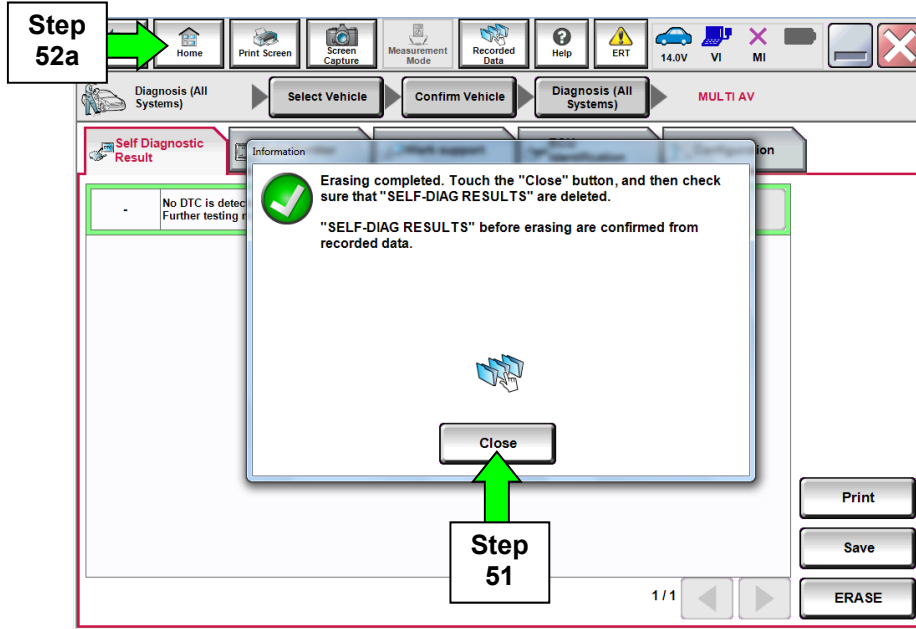

Figure 44

52. Once all DTCs have been erased:

    a. Select **Home**, and then on the next screen, select **Yes** (picture not shown).

    b. Close C-III plus, turn OFF the CONSULT PC, and then disconnect the CONSULT PC and plus VI from the vehicle.

    c. Turn "ignition" OFF (depress power switch <u>once</u>).

53. Verify the repair is complete:

    a. Place the vehicle in the "READY to drive" mode (press power switch while stepping on the brake pedal).

    b. Verify no error messages are displayed in the meter and gauges or center multi-function control panel.

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CLAIMS INFORMATION

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

CAMPAIGN ("CM") ID	DESCRIPTION	OP CODE	FRT
PC630	Reprogram Lithium Ion Battery Controller	PC6300	0.4 hrs
	Reprogram Not Needed	PC6301	0.3 hrs