



SERVICE BULLETIN

Classification:

EL20-007

Reference:

NTB20-017

Date:

March 16, 2020

2018-2019 LEAF; EV BATTERY WARNING LIGHT ON AND DTC B2902-42 STORED

APPLIED VEHICLES:	2018-2019 LEAF (ZE1)
APPLIED VIN:	Vehicles built before 1N4AZ1(*)(*)KC306826
APPLIED DATE:	Vehicles built before January 8, 2019
APPLIED SYSTEM:	Vehicles equipped with a 40 kWh lithium-ion battery

IF YOU CONFIRM

The EV Battery warning light is ON

AND

DTC B2902-42 (PDM POWER DELIVERY MODULE) is stored.

ACTION

1. Confirm the current Power Delivery Module (PDM) part number.
2. Reprogram the PDM, if applicable.

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.

SERVICE PROCEDURE

PDM Reprogramming

IMPORTANT: Before continuing, make sure:

- ASSIST 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).

NOTICE

To avoid vehicle damage, disconnect the 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.

NOTICE

- Connect a battery maintainer or smart charger set to reflash mode or a similar setting. If the vehicle's battery voltage drops below 12.0V or rises above 15.5V during reprogramming, the PDM may be damaged.
- Be sure to turn OFF all vehicle electrical loads. If a vehicle electrical load remains ON, the PDM 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 PDM 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 and/or the plus VI during reprogramming, reprogramming may be interrupted and the PDM may be damaged.

DO NOT CHARGE
during reprogramming

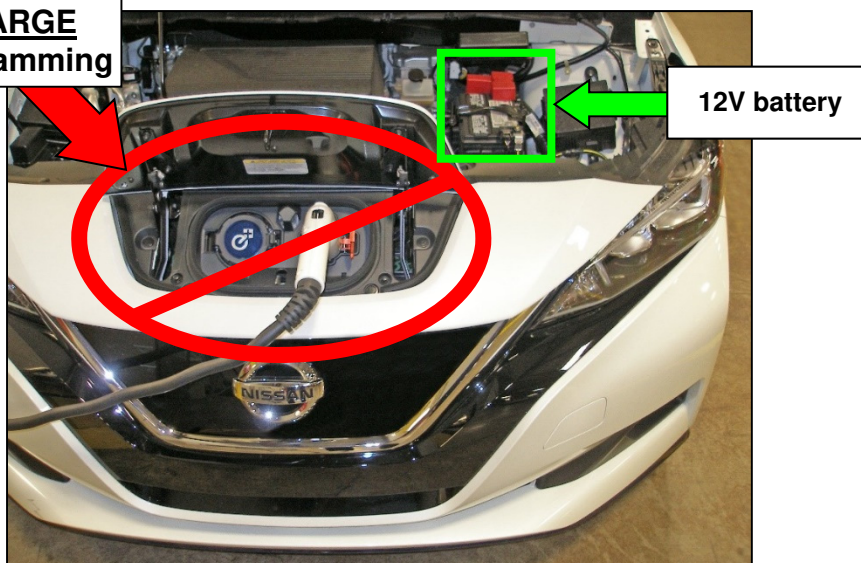


Figure 1

1. Connect the plus VI to the vehicle.
2. Connect the plus VI to the CONSULT PC with the USB cable.
3. Connect the AC adapter to the CONSULT PC.
4. Turn ON the CONSULT PC, and then open C-III plus.
 - Turn OFF any screen savers that are on the CONSULT PC.
5. Set the parking brake.
6. Depress the power (ignition) switch twice without depressing the brake pedal.
 - The meter and gauges will illuminate.

NOTICE

To avoid damage to the vehicle, DO NOT set the vehicle in READY to Drive position.

7. After the plus VI is recognized, select **Re/programming, Configuration**.

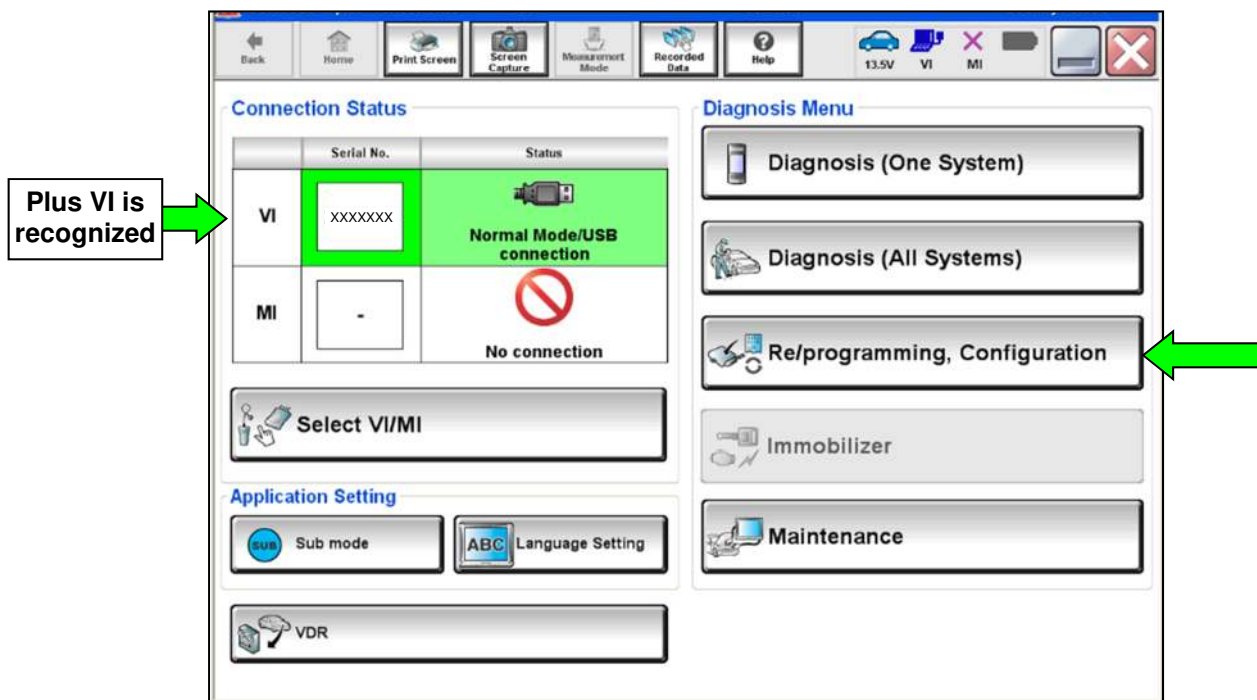


Figure 2

8. Read the **Precaution** and **Caution**.
9. After the **Precaution** and **Caution** have been read, check-mark the box for **Confirmed instructions** by selecting it, and then select **Next**.

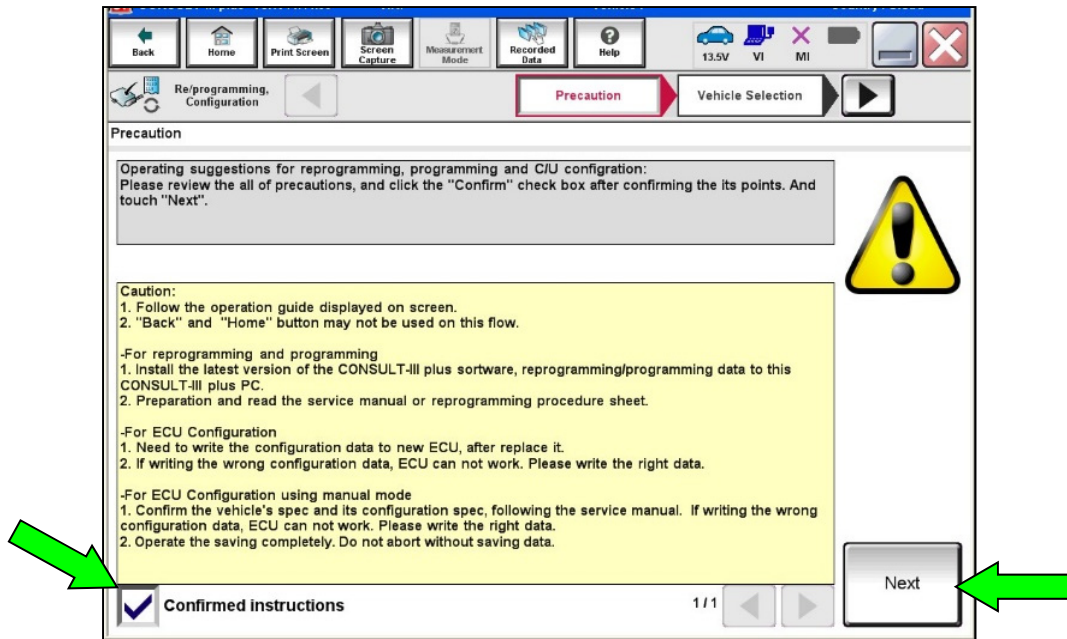


Figure 3

10. Select **LEAF** and the correct **Model Year**, or the **Automatic Selection(VIN)** tab.
 - If **Automatic Selection(VIN)** is selected, wait for the **Reading VIN** screen to complete (picture not shown).
 - If the screen in Figure 4 does not display, skip to step 12 on page 5.
11. Select **Select**.

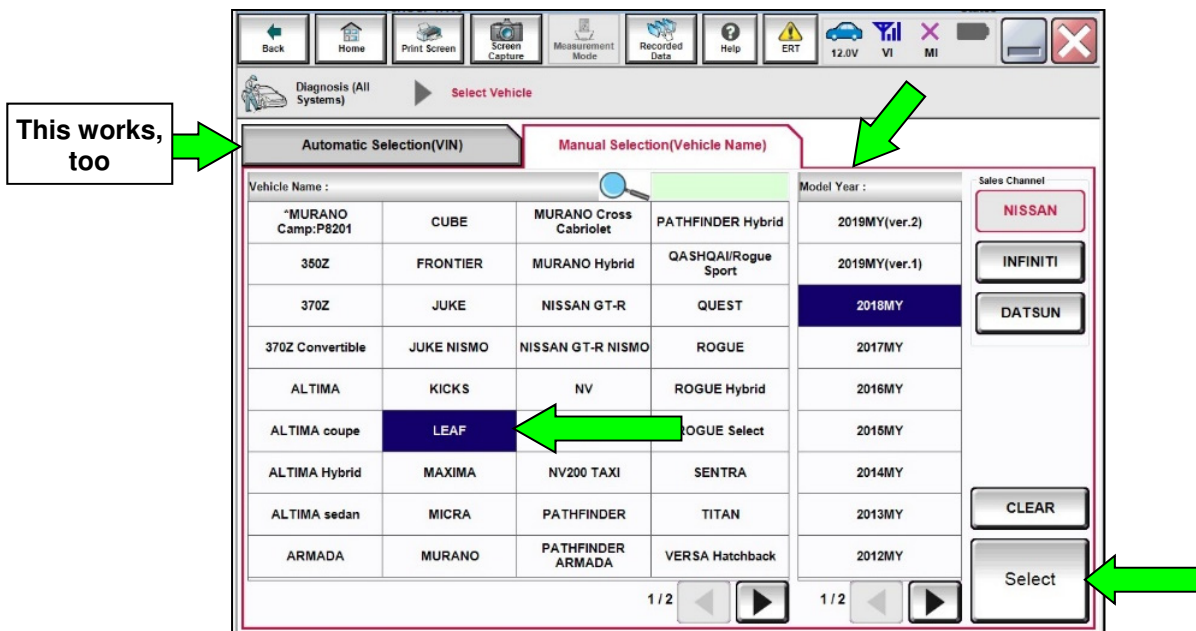


Figure 4

12. Verify the Vehicle Identification Number (VIN) in **VIN or Chassis #** matches that of the vehicle, and then select **Confirm**.

Diagnosis (All Systems) Select Vehicle Confirm Vehicle

Please confirm selected information and touch "Confirm". In case you want to select another vehicle, touch "Change".

VIN or Chassis #	vvvvvvvvvvvvvvvv
Vehicle Name :	LEAF
Model Year	XXXXXXXX

1 / 1

Change Confirm

Figure 5

13. Select **Confirm**.

Reprogramming, Configuration Vehicle Confirmation Input VIN 4/4

Input VIN

Enter the VIN number, and touch "Confirm".
According to this operation, in case of specified operation that requires to save ECU information into CONSULT, VIN number you input is saved as file name. Therefore, confirm VIN number correctly.

VIN (17 or 18 digits) XXXXXXXXXXXXXXXXXXXX

Confirm

Figure 6

14. Select **CHARGER/PD MODULE**.

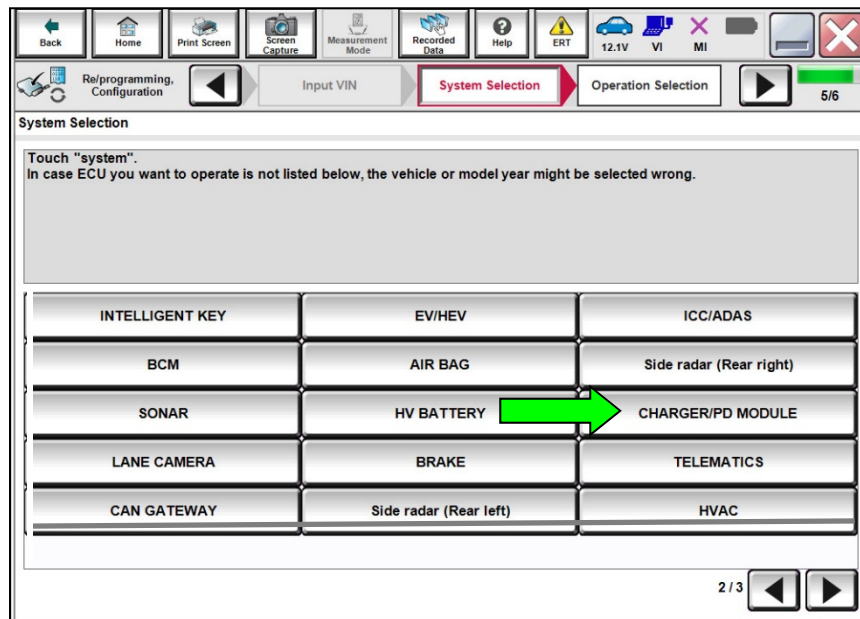


Figure 7

15. Select **Reprogramming**.

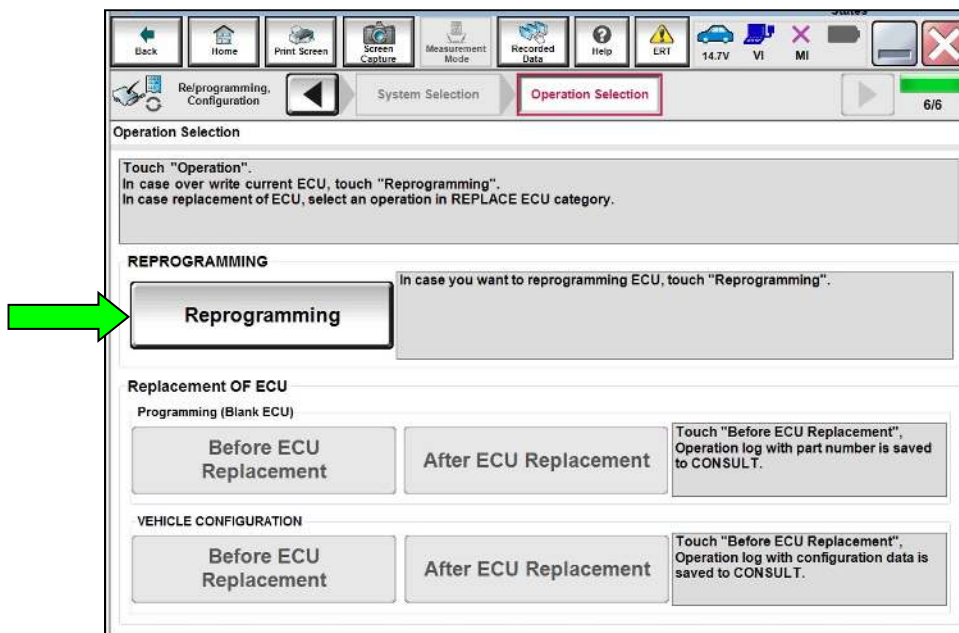


Figure 8

16. Find the PDM part number (**Part Number**) and write it on the repair order.

- This is the current PDM part number.
 - If the current PDM part number **IS** 292C0-5SA0A or 292C0-5SA1A, continue to step 17 to reprogram the PDM.
 - If the current PDM part number **IS NOT** 292C0-5SA0A or 292C0-5SA1A, this bulletin does not apply. Refer to the ESM for further diagnostic and repair information.

Touch "Save" to save operation log and the current part number as listed below to CONSULT. Operation log helps to restart next operation by selecting suitable operation log. Operation log is erased after operation has completely finished.

File Label	XXXXXXXXXXXXXXXXXX
Operation	REPROGRAMMING
System	CHARGER/PD MODULE
Part Number	292C0-XXXX
Vehicle	ZE1LEAF
VIN	XXXXXXXXXXXXXXXXXX
Date	XXXXXXXXXXXXXXXXXX

Save

Figure 9

17. Select **Save**.

Touch "Save" to save operation log and the current part number as listed below to CONSULT. Operation log helps to restart next operation by selecting suitable operation log. Operation log is erased after operation has completely finished.

File Label	XXXXXXXXXXXXXXXXXX
Operation	REPROGRAMMING
System	CHARGER/PD MODULE
Part Number	292C0-XXXX
Vehicle	ZE1LEAF
VIN	XXXXXXXXXXXXXXXXXX
Date	XXXXXXXXXXXXXXXXXX

Save

Figure 10

18. Use arrows (if needed) to view and read all precautions.
19. Check the box for **Confirmed instructions** and then select **Next**.

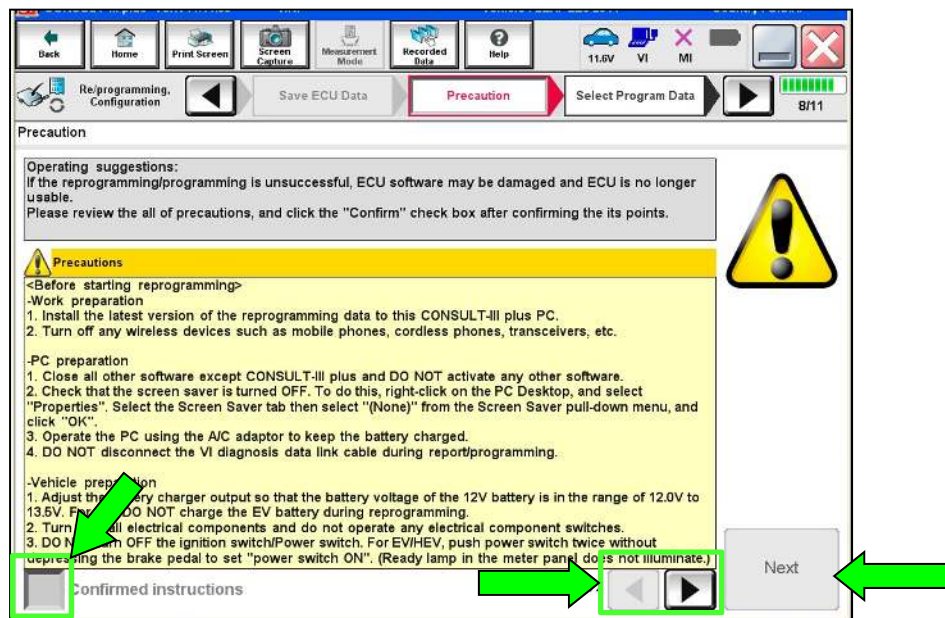


Figure 11

20. On the **Select Program Data** screen, select **Next**.

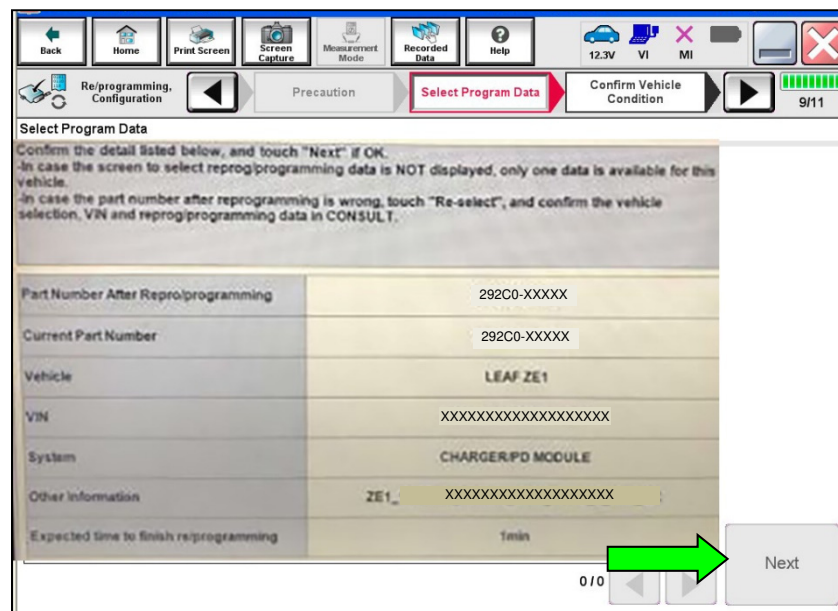


Figure 12

21. On the **Confirm Vehicle Condition** screen, select **Next**.

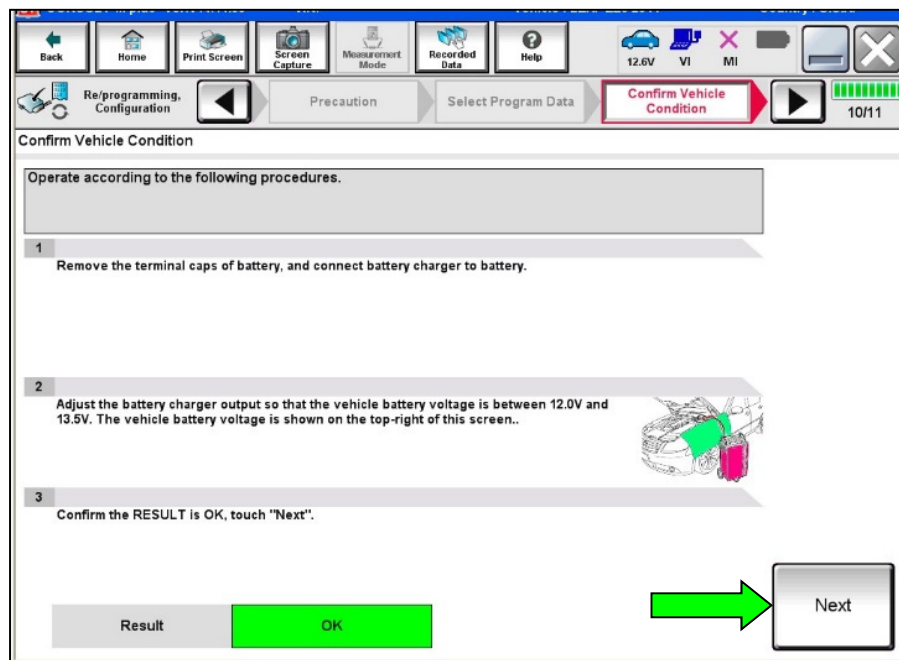


Figure 13

22. On the second **Confirm Vehicle Condition** screen, select **Start**.

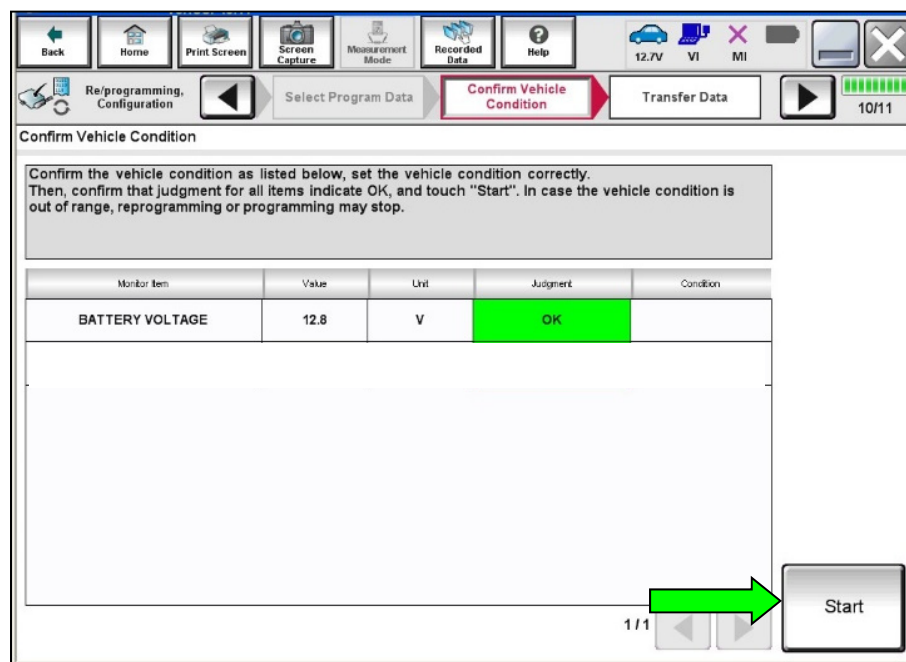


Figure 14

23. If the screen in Figure 15 displays, select **USA/CANADA Dealers**, then select **OK**. If it does not, continue to step 24.

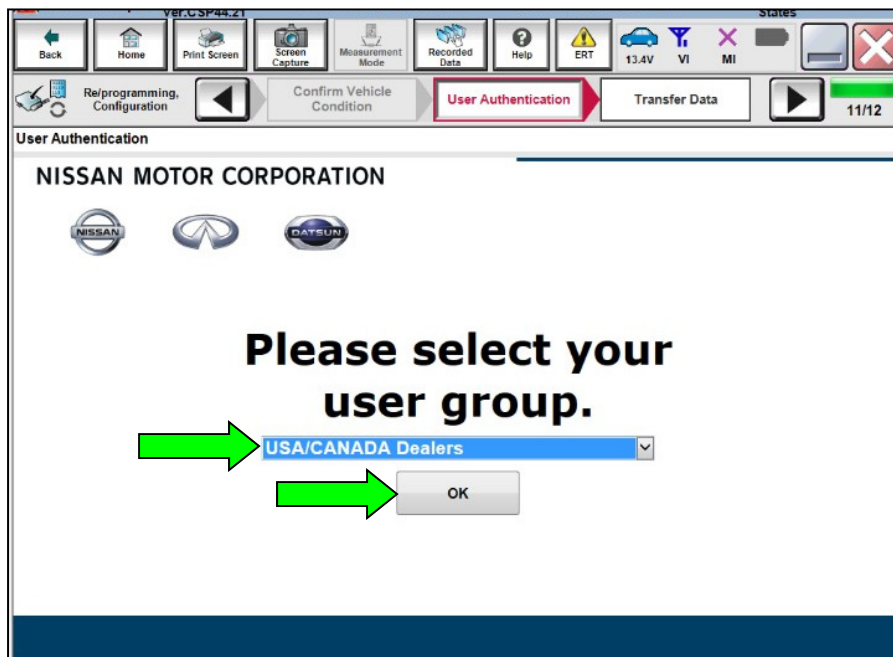


Figure 15

24. 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 username or password, contact your service manager.
25. Select **Submit**.

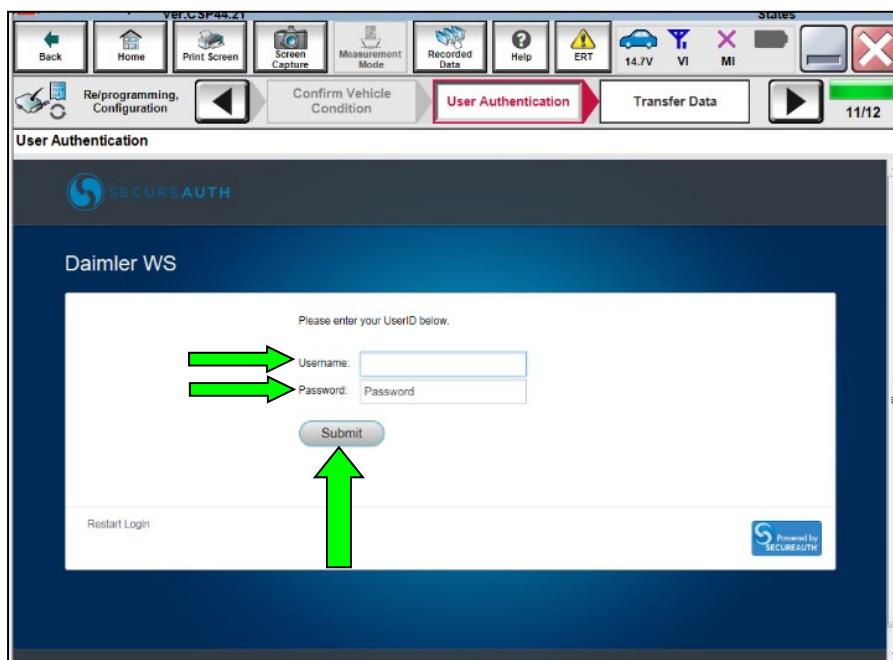


Figure 16

26. Wait for both bar graphs to complete.

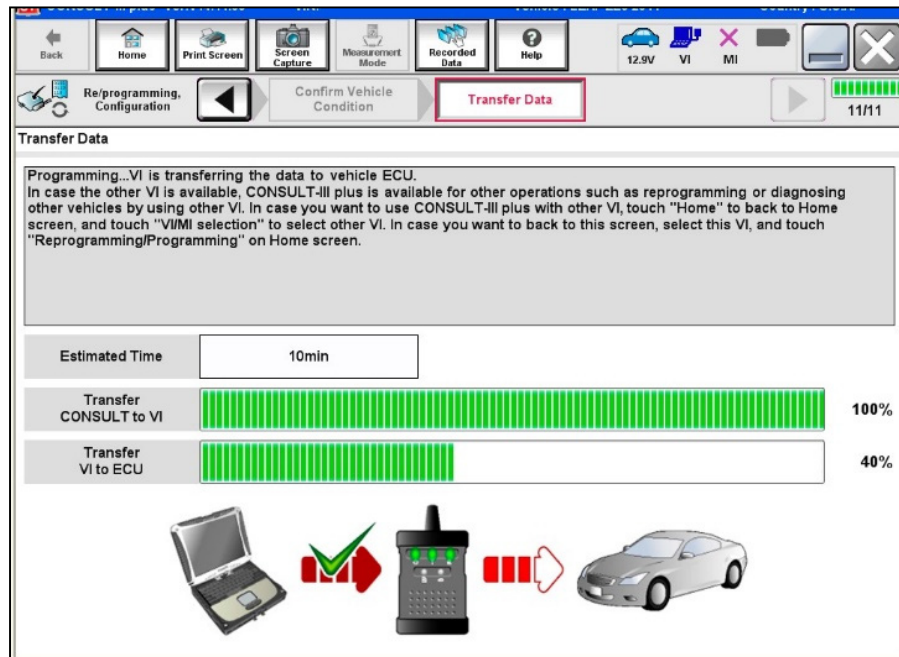


Figure 17

27. When the screen in Figure 18 displays, select **Next**.

- Reprogramming is complete.

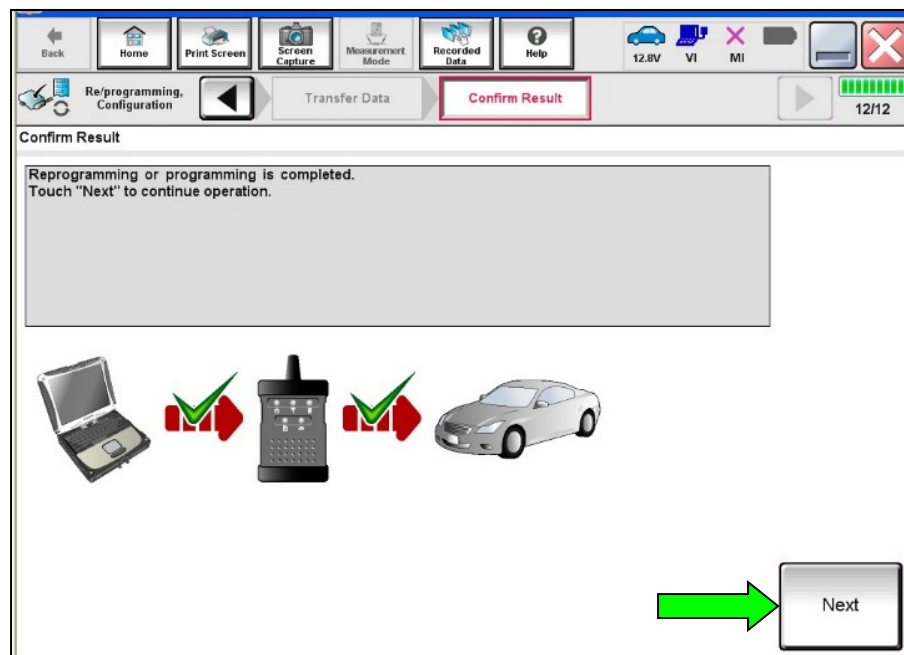


Figure 18

28. Erase all DTCs as follows:

- a. Turn the “ignition” OFF by depressing the power switch once.
 - The screen in Figure 19 will read **OFF** after pressing the power switch once.

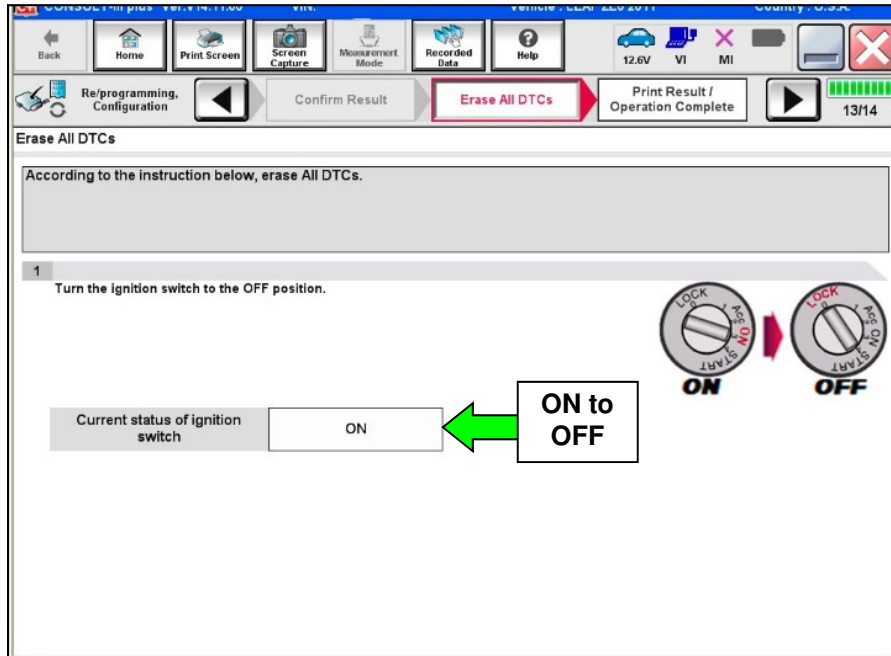


Figure 19

- b. Wait one (1) minute after turning the ignition **OFF**.

- c. Turn the “ignition” ON by depressing the power switch twice (not Ready to Drive position).
- Do not step on the brake pedal when depressing the power switch.
 - The screen in Figure 20 will read ON after pressing the power switch twice.
 - Do not be confused by any screen messages. At this point, simply turn the “ignition” ON.

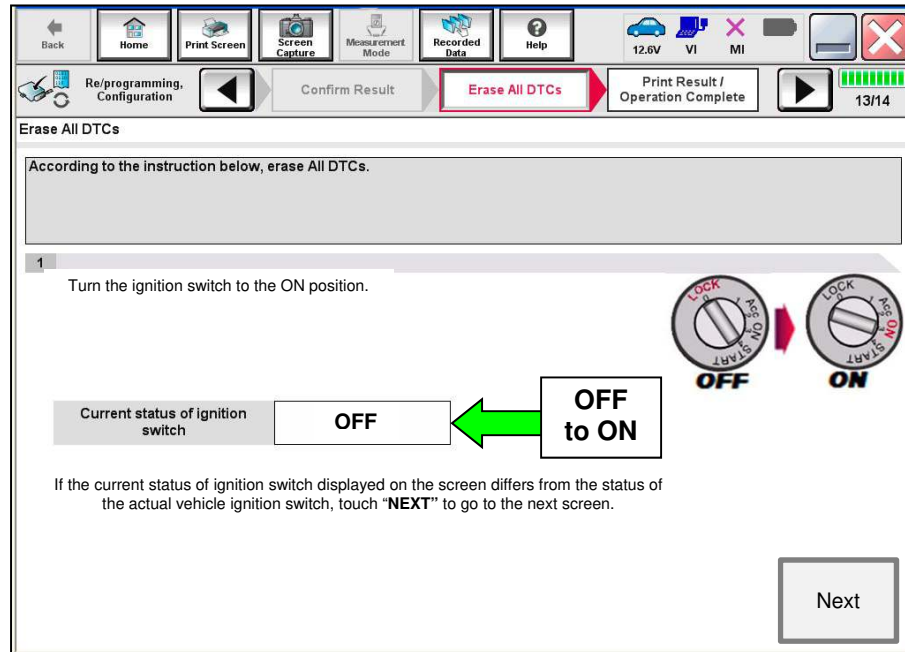


Figure 20

- d. If the screen in Figure 21 displays, select **Erase DTC**.

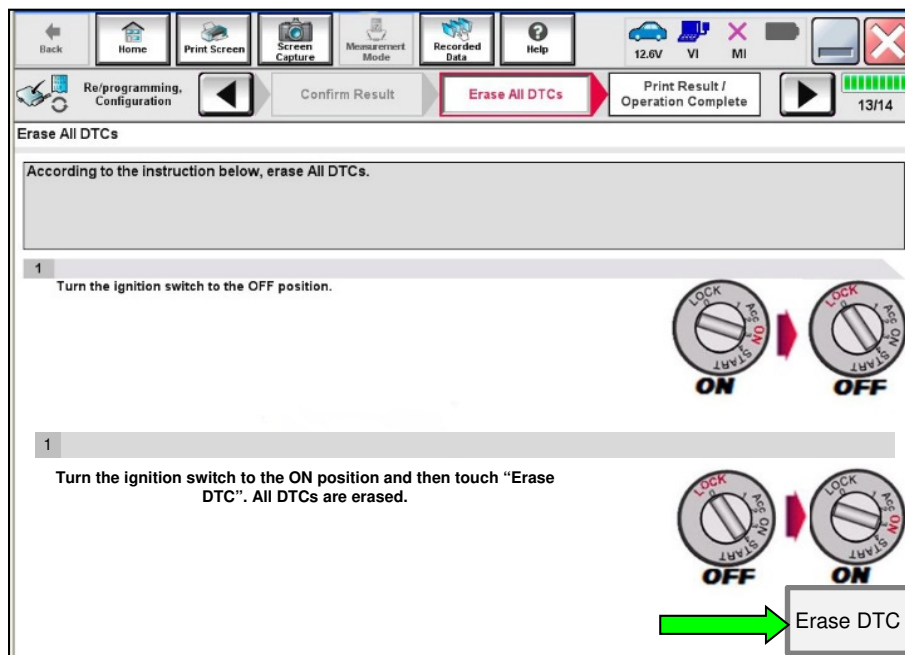


Figure 21

29. Verify the before and after part numbers are different.
30. Print a copy of this screen (Figure 22) and attach it to the repair order.
31. Select **Confirm**.

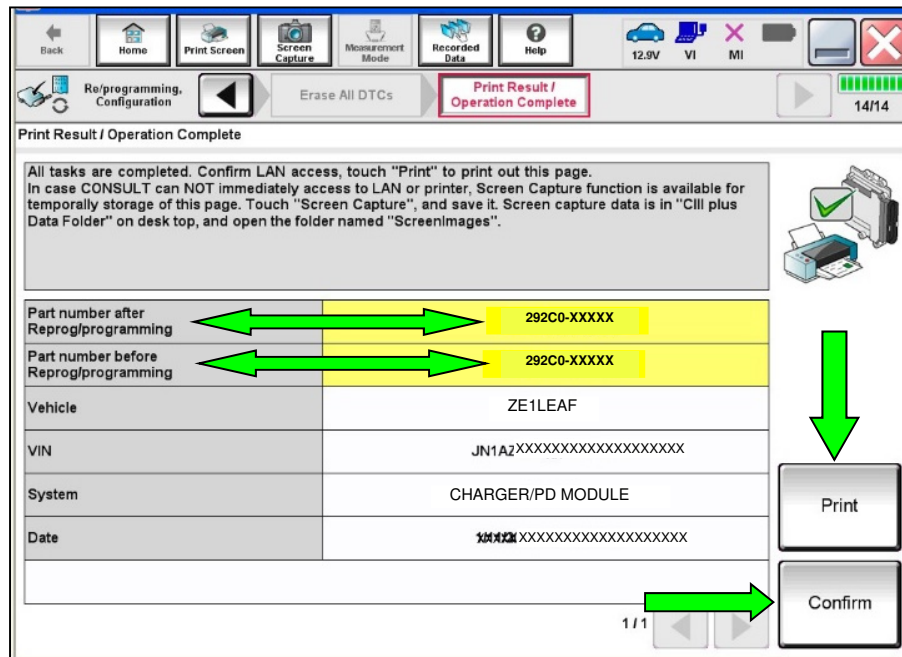


Figure 22

32. After confirmation has completed, select **Home**.

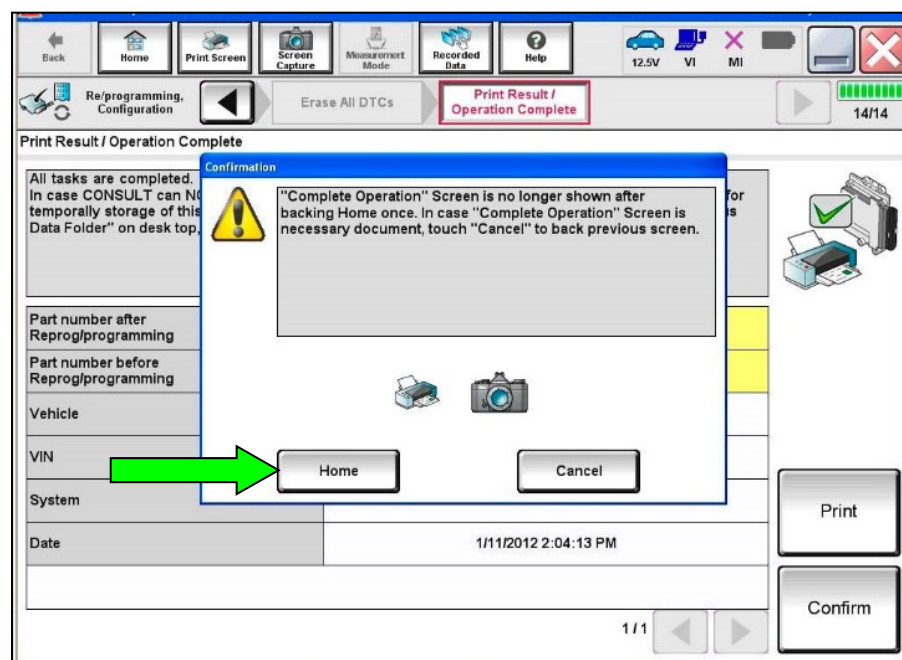


Figure 23

33. Close C-III plus, turn OFF the CONSULT PC, and then disconnect the CONSULT PC and plus VI from the vehicle.
34. Turn the ignition OFF (depress power switch once).
35. Verify there are no error messages:
 - a. Place the vehicle in the READY to Drive position (depress power switch once while stepping on the brake pedal).
 - b. Verify no error messages are displayed in the meter and gauges or center multi-function control panel.
36. If the timer for either charging or climate control were "ON" prior to reprogramming, turn them back ON.

CLAIMS INFORMATION

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Reprogram Charger/PD Module	(1)	JX66AA	ZE	32	0.5

- (1) Reference the repair order and use the current PDM P/N (292C0-*****) from step 16 of the Service Procedure as the PFP.

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
March 16, 2020	NTB20-017	Original bulletin published