

SERVICE BULLETIN Classification:

EL13-055c

Reference:

March 11, 2015

Date:

2013 - 2014 LEAF; INSUFFICIENT HEATER OUTPUT

NTB14-001c

This bulletin has been amended in the APPLIED VEHICLES section. The "complete HVAC and case assembly" is no longer to be replaced, only the PTC heater. The PTC heater is no longer on parts restriction. The remainder of this bulletin reflects these and other changes. Discard all previous versions of this bulletin.

APPLIED VEHICLES: 2013 - 2014 LEAF (ZE0) **APPLIED VIN and**

> **DATE:** Vehicles built before 1N4AZ0CP(*)EC 334340 and February 17, 2014

IF YOU CONFIRM

The vehicle does not meet "PTC Heater Specifications" on Page 2.

And

The vehicle's current EV/HEV software version for the "Vehicle Control Module" (VCM) is in "Table A" on page 8.

 Refer to step 14 on page 8 in the SERVICE PROCEDURE to check current EV/HEV software version.

NOTE: One or more of the following DTC's below may be present:

- B2773 PTC Heater Circuit 1
- B2774 PTC Heater Circuit 2

ACTION

- 1. Reprogram the VCM with CONSULT-III plus (C-III plus).
- 2. Replace the PTC heater.

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.

PTC Heater Specifications

Under the following conditions:

- With external vehicle ambient air temp at 60°F or more (with vehicle inside an enclosed shop, or outside if conditions permit)
- Ignition in Ready Mode
- The vehicle's heater temperature at 90°

After two (2) minutes the temperature coming from the center vents should be at least 130°F measured with a non-contact infrared thermometer.

- SL and SV models <u>with</u> heat pump may have reduced heat, or may have no heat if the heat pump has also shut down due to DTC's.
- S models without heat pump will have no heat.

SERVICE PROCEDURE:

Reprogram the Vehicle Control Module (VCM)

- 1. Before continuing, it is IMPORTANT to make sure:
 - ASIST on the CONSULT PC has been freshly synchronized (updated).
 - All CONSULT related software updates (if any) have been installed.

NOTE: The CONSULT PC automatically gets all reprogramming software during ASIST synchronization.

CAUTION:

- Turn off all cell phones and external Bluetooth devices within range of C-III plus.
- Do not touch C-III plus during reprogramming.
- Do not disconnect the AC adaptor during reprogramming.
- Do not disconnect the "plus" VI's diagnostic cables during reprogramming.
- Do not touch the power ("ignition") switch during reprogramming.
- Do not touch any electrical switch during reprogramming.
- 2. Have the **GR8 Multitasking Battery Diagnostic Station** (battery tester/charger) available and ready to use.
 - <u>Do not connect</u> the battery tester/charger at this time. The battery tester/charger will be set up later in this bulletin.

CAUTION: 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 them off and make sure to turn them back on after reprogramming.

- 3. Once all ASIST and CONSULT related updates have been verified/performed, attach the CONSULT PC to vehicle.
 - Connect the plus VI to the vehicle.
 - Connect the AC adapter to the CONSULT PC.
- 4. Turn on the CONSULT PC, and then open C-III plus.
- 5. Press the vehicle's power ("ignition") switch twice <u>without</u> depressing the brake pedal.
 - The meter and gauges will illuminate.

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

NOTE: Make sure <u>all</u> accessories are turned off.

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

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

| Plus VI is recognized | Back Back Connection Stat Serial No VI 230072 MI - Select V Application Settin Sub mode | Print Screen Capture Mode Screen Mode IS Status Normal Mode/Wireless connection No connection /MI | Image: Step Step Step Step Step Step Step Step | p |
|--------------------------|---|--|--|---|
| | Application Settin | g | Maintenance | |
| |] | Fic | jure 1 | |

7. Check Confirmed Instructions and then select Next.

| CONSULT-III plus Ver.V14.11.00 | VIN:+ | Vehicle : - | Country : U.S.A |
|---|--|---|-----------------|
| Back Come Print Screen | Scieen Capture | 🚱 🚕 🚚 | × • 💭 🔀 |
| Configuration | Prec | aution Vehicle Select | ion |
| Precaution | | 56-10 M | |
| Operating suggestions for reprog Please review the all of precaution touch "Next". | amming, programming and C/U co. s, and click the "Confirm" check box | ifigration: after confirming the its points. | And |
| Caution: 1. Follow the operation guide disp 2. "Back" and "Home" button may -For reprogramming and program 1. Install the latest version of the C CONSULT-II plus PC. 2. Preparation and read the service -For ECU Configuration | layed on screen, not be used on this flow, ming ONSULT-II plus sortware, reprogram e manual or reprogramming proced | ming/programming data to thi ure sheet. | • |
| 1. Need to write the configuration 2. If writing the wrong configuration | data to new ECU, after replace it. n data, ECU can not work. Please w | rite the right data. | |
| -For ECU Configuration using mar 1. Confirm the vehicle's spec and i configuration data, ECU can not w 2. Operate the saving completely. D | tes configuration Step the store or the store of the stor | ervice manual. If writing the w | wong |
| C infirmed Instructions | | 1/1 | Next |
| | Figure | 2 | |

8. Select LEAF and 2013/2014 or Automatic Selection (VIN).

Or

- If Automatic Selection (VIN) is selected, wait for the Reading VIN screen to complete (picture not shown), then go to step 11.
- 9. Select Select.



Figure 3

10. Verify the VIN in **VIN or Chassis #** matches that of the vehicle's.

• If the correct VIN exists, select **Confirm**.

| | CONSULT-III plus Ver.35.11 VIN: Ver.CSP20.21 VIN: | - Vehicle : - | Country : United States | |
|------|--|--|----------------------------|---------------|
| | Back Back Print Screen Capture | Measurement Mode Recorded Data | YI 💥 🖿 🥅 🔀 | |
| | Configuration | le Selection | iput VIN | |
| | Please confirm selected information and to touch "Change". | uch "Confirm". In case you want to select anothe | r vehicle, | |
| | | | | |
| here | VIN or Chassis # | 1N4AZ0CPXXX XXXXXX | > | |
| | Vehicle Name : | LEAF | | |
| | Model Year | 2013 | | |
| | | | | |
| | | 1/1 | | |
| | | | | |
| | | | Change | |
| | | | | If OK, select |
| | | | Confirm | Confirm |
| | <u>I</u> | Figure 4 | |] |

11. Select Confirm.





12. Select EV/HEV.

• Wait for system call to complete.

| CONSULT-III plus Ver.35.11 VII | N: Vehicle : LEA | F ZE0 2013 Country : United States | | | | | | |
|--|---|---------------------------------------|--|--|--|--|--|--|
| Back Rome Print Screen Capture | ne Measurement Mode Recorded Data | 12.1V VI MI | | | | | | |
| Configuration | Input VIN System Selection | Operation Selection 5/6 | | | | | | |
| System Selection | | | | | | | | |
| Touch "system". In case ECU you want to operate is not listed below, the vehicle or model year might be selected wrong. | | | | | | | | |
| MULTI AV | IPDM E/R | HV BATTERY | | | | | | |
| EHS/PKB | METER/M&A | BRAKE | | | | | | |
| MOTOR CONTROL | всм | CHARGER/PD MODULE | | | | | | |
| EPS/DAST 3 | EV/HEV | TELEMATICS | | | | | | |
| ABS | | Step HVAC | | | | | | |
| | | 12 | | | | | | |

Figure 6

13. Select Reprogramming.

| | CONSULT-III plus Ver.V14.11.00 | (IN: | Vehicle : LEAF ZE0 2011 | Country : U.S.A. | | | | | | |
|------|--|--------------------------------|---|-----------------------------------|--|--|--|--|--|--|
| | Back Back Print Screen | Measurement Mode Recorded Data | Image: Weight Help Image: Weight Help | × • 📄 🧾 🔀 | | | | | | |
| | Re/programming. System Selection Operation Selection 6/6 | | | | | | | | | |
| | Operation Selection | | | | | | | | | |
| | Touch "Operation". In case over write current ECU, touch "Reprogramming". In case replacement of ECU, select an operation in REPLACE ECU category. | | | | | | | | | |
| | REPROGRAMMING | | | | | | | | | |
| Step | | In case you want to reprogram | nming ECU, touch "Reprogram | ming". | | | | | | |
| 13 | Reprogramming | | | | | | | | | |
| | Replacement OF ECU | | | | | | | | | |
| | Programming (Blank ECU) | | | | | | | | | |
| | In case you want to replace ECU, you should operate followings. Before replace ECU, ECU data is saved to CONSULT. After replace ECU, CONSULT writes ECU data and programming data. | | | | | | | | | |
| | | | | | | | | | | |
| | Read / Write Configuration | Manual Configura | In case you has alrea touch "Manual Confi | ady replaced ECU, iguration''. | | | | | | |
| | | Figure 7 | 7 | | | | | | | |

14. Write down the **Part Number** on the vehicle's repair order (see Figure 8).

| CONSULT-III plus | VIN | Vehicle : LEAF ZE0 2011 | Country : U.S.A. | |
|---|--|--|------------------|--------------|
| Back Rome Print Sc | reen Screen Capture | Monservert Mode Data | | |
| Re-programming, Certifyuration ave ECU Data Touch "Save" to save opera Operation log helps to resta after operation has complete | ation log and the or the second secon | If EV/HEV P/N <u>is not</u> listed in Table A, select Home , and then select " X " | 717 | |
| File Label | | 1N4AZ0CPXXX XXXXXX | | |
| Operation | E1 · · · /1 | REPROGRAMMING | | |
| System | I his is the | EV/HEV | 1 | |
| Part Number | EV/HEV | 237D0 - xxxxx | | |
| Vehicle | Part | ZEOLEAF | | |
| VIN | Number | 1N4AZ0CPXXX XXXXXX | 1 | |
| Date | | 8/27/2012 9:18:33 AM | Save | If OK, selec |
| | | | | |

Figure 8

- If the **EV/HEV** part number is in Table A below, continue with the VCM reprogramming and PTC heater replacement.
 - Select **Save**, and then go to Step 15.
- If the **EV/HEV** part number is not in Table A below, this bulletin does not apply.
 - Close C-III plus (select Home, and then the "X"), disconnect from the vehicle.
 - > If the timer for either charging or climate control were turned off, turn them back.
 - Refer to ASIST or the applicable Electronic Service Manual (ESM) for further diagnostic assistance.

Table A

| Model | Current EV/HEV Part Number: 237D0 - |
|-----------|--|
| 2013 LEAF | 3NF0A, 3NF0B, 3NF0C 3NF1A, 3NF1B, 3NF1C |
| 2014 LEAF | 4ND0A. 4ND1A, 4ND2A |

15. Select Next.

| CONSULT-II plus Ver Vin | Vehicle : LEAF ZEO 2011 | Country : U.S.A. | | | | |
|--|--|------------------|--|--|--|--|
| teck Rume Print Screen Carbor | Monservet Mode | 🌠 💥 🖿 🔜 🔀 | | | | |
| Configuration Operation | ation Selection Save ECU Data | 7/7 | | | | |
| Save ECU Data | | | | | | |
| Operation log and ECU data (Some of ECU "Next". | need to be saved, not all) have been saved to CONS | ULT. Touch | | | | |
| File Label | 1N4AZ0CPXXX XXXXXX | | | | | |
| Operation | REPROGRAMMING | | | | | |
| System | EV/HEV | | | | | |
| Part Number | 237D0 - xxxxx | | | | | |
| Vehicle | ZEOLEAF | | | | | |
| VIN | 1N4AZ0CPXXX XXXXXX | | | | | |
| Date | 8/27/2012 9:18:59 AM | Next | | | | |
| | | IVEAL | | | | |

Figure 9

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**.



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

- ➢ In this case, the screen in Figure 11 will display.
- Select and use the reprogramming option that <u>does not</u> have the message "Caution! Use ONLY with NTBXX-XXX".
- If you get this screen and it is <u>blank</u> (no reprogramming listed), it means that there is no reprogramming available for this vehicle.
- Refer to ASIST or the applicable ESM for further diagnostic assistance

| CONSULT-III plus Ver.V | 14.21.00 | VIN: | | | Vehicle : | LEAF ZEO 2 | 011 | | Country : U.S.A. |
|---|-------------------|--|----------------------------|----------------------|-------------|------------|-------------------------|------------|------------------|
| Back Pri | 🗼 nt Screen | Screen Capture | Measurement Mode | Recorded Data | () Help | 12 | → ↓ ∴3V VI | × MI | |
| Re/programming, Configuration | | Preca | aution | Select P | rogram Dat | a C | onfirm Veh Conditior | nicle n | 9/11 |
| Select Program Data | | | | | | | | | |
| Touch and select the rep In case no reprog/progra reprog/programming data | mming d in CON | gramming dat ata is listed b SULT. | a listed be elow, confi | low. rm the vehic | le selectio | n, VIN and | | | |
| System | | EV/HEV | | | | | | | |
| Current Part Number | | Part Numb | er After Repr | o/programming | 9 | Other | Information | | |
| xxxxx-xxxxx | | хх | xxx-xxx | xx | х | | xxxxx | oxxx | |
| XXXXX-XXXXX | | XX | XXX-XXX | x | XX | | xxxxx | xxxx | |
| | | | | | | | | | Nevt |
| | | | | | | 01 | | | |

Figure 11

17. Verify "Current" and "After Reprogramming" part numbers are listed, then select Next.

• They should be different.

| CONSULT-II plus Ver VIN | i: Vehicle : V | EAF 2E0 2011 | Country : U.S.A. | |
|---|--|--|------------------|-----------------------------|
| Rack Rome Print Screen Capture | Monarorret Recorded Ret | 🚓 🆬 🗙 12.4V VI MI | | |
| Configuration | Precaution Select Program Data | Confirm Vehicle Condition | 9/11 | |
| Select Program Data | | | | |
| Confirm the detail listed below, and touch in case the screen to select reprog/progra vehicle. -In case the part number after reprogramming dat selection, VIN and reprog/programming dat | "Next" if OK. mming data is NOT displayed, only one ing is wrong, touch "Re-select", and co a in CONSULT. | e data is available for this onfirm the vehicle | | |
| Part Number After Repro/programming | 237D0 - xx 237D0 - xx | XXX | | |
| Vehicle | ZEO LEAF | | | |
| VIN | 1N4AZ0CPXXX X | xxxxx | | |
| System | EV/HEV | | | |
| Other Information | ZE0 e-ACT | r | Re-select | |
| Expected time to finish re/programming | 5min | | Next | Verify P/Ns listed, then |
| | | | | select Next |

Figure 12

- 18. Open the hood, and then set up the GR8 Multitasking Battery Diagnostic Station (battery tester/charger) for the 12V battery.
 - Set GR8 to ECM Power Supply Mode.

CAUTION: Battery voltage must stay between 12 volts and 15.5 volts.

CAUTION: Do not charge the High Voltage (HV) Lithium Ion battery during reprogramming.



Figure 13

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

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

| CONSULT-III plus Ver.V14.11.00 | VIN: | Vehicle : LEAF ZE0 2011 | Country : U.S.A. | | | |
|--|-------------------|--|------------------------|--|--|--|
| Back Reme Print Screen | Screen Capture | Image: Weight of the second | VI MI | | | |
| Re/programming, Configuration | Precaution Selec | t Program Data Confi Co | Vehicle 10/11 | | | |
| Confirm Vehicle Condition | | - | | | | |
| Operate according to the following p | rocedures. | | Monitor 12V battery | | | |
| 1 | | | voltage here | | | |
| | | | | | | |
| 2 Adjust the battery charger output so that the vehicle battery voltage is between 12.0V and 13.5V. The vehicle battery voltage is shown on the top-right of this screen | | | | | | |
| 3 | | | ~ M | | | |
| Confirm the RESULT is OK, touch | "Next". | | | | | |
| Result | ок | Must be "Green" befo | Next | | | |
| | | selecting Ne | xt | | | |
| | — 1 . | 4 4 | | | | |

Figure 14

20. On the next screen, select Start.

- The reprogramming process begins when **Start** has been selected.
- A warning message "Stop Vehicle" will display on the meter and a continual tone will sound while the reprogram is occurring.

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

| Ci | CONSULT-III plus | Ver.35.11 Ver.CSP20.21 | VIN:1N4AZ | 0CP3DC401197 | Vehicle : LEAF | ZE0 2013 | Country : United States | |
|--------------|--|---|--|---|--|---------------------|-------------------------------------|------------|
| | Back Back | Print Screen | Screen Capture | surement Mode | ed Particip | (12.1V) VI M | | |
| | Re/programm Configuration | ning, on | Select Progr | am Data | Confirm Vehicle Condition | Transfer | 10/11 | |
| Co T o | nfirm Vehicle Cond onfirm the vehicle hen, confirm that j ut of range, reprog | dition condition as udgment for a gramming or pr | listed below, se Il items indicate ogramming may | et the vehicle co OK, and touch ' v stop. | ndition correctly. 'Start''. In case the ve | ehicle condition is | Monitor 12 battery voltage he | V re |
| | Monitor Ite | an . | Value | Unit | Judgment | Condition | | |
| | BATTERY VC | DLTAGE | 12.0 | v | ок | | | |
| | VCM ACTIV | ATION | NON | | ок | | | |
| | | | | | | 1/1 | Start | Step 20 |
| | | | | | | | | |

Figure 15

21. Wait for both bar graphs to complete.



Figure 16

22. When the screen in Figure 17 appears, reprogramming is complete.

NOTE: If the screen in Figure 17 <u>does not</u> display (reprogramming <u>is not</u> complete), refer to the information on page 14

- a. Select Next.
- b. Wait for System Call to complete.

| Ver | | |
|--|---------------------|----------|
| CONSUCTAIL PLUS () VIN CONSUCTAIL PLUS () VIN CONSUC | ed Resp. 12.2V VI M | |
| References Transfer Data | Confirm Result | 12/12 |
| Confirm Result | | |
| Reprogramming or programming is completed. Touch "Next" to continue operation. | 00 | |
| | | Step |
| | | Next 22a |
| – | - 17 | |

Figure 17

23. Erase all DTCs:

- a. Turn "ignition" off by depressing the power switch once.
 - The screen in Figure 18 will read **OFF** after pressing the power switch <u>once</u>.

| CONSULT-II plus Ver | VIN: | Vehicle : LEAF ZE0 20 | 11 Country : U.S.A. |
|--|----------------------------|-----------------------|---------------------------------|
| tack Reene Print Screen | Anter Mode Data | | 🕈 🏗 🗙 🖿 🔜 🔀 |
| Configuration | Confirm Result | Erase AI DT Cs Open | rint Result / ation Complete |
| Erase All DTCs | | | |
| According to the instruction below, er | ese All DTCs. position. | ON to OFF | ON OFF |
| | | | |

Figure 18

ECM 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 19:

- Check battery voltage (12.0 – 15.5 V).
- 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</u> on first attempt and can be selected more than once.

| CONSULT II pue | Ver VN | Vatida | Ecuntry : Jacon |
|--|--|---|-----------------|
| Back Home | Print Screen | Vecoridad Data | |
| onightion | Transfer Data | Confirm Resul | 13/13 |
| confirm Result | | | |
| Reprogramming or prog operation on this ECU. Touch "Retty" to retry re | animing is not completed properti programming or programming. | r, but you can retry reprog/progn | |
| Part number after Reprog/programming | | 237D0-XXXXX | |
| | | 237D0 -XXXXX | |
| Part number before Reprog/programming | | 237D0-XXXXX | |
| Part number before Reprog/programming Vehicle | | 237D0-XXXXX LEAF | |
| Part number before Reprogramming Vehicle VIN | | 237D0-XXXXX LEAF 1N4AZ0CPXXX XXXXX | (X |
| Part number before Reprog/programming Vehicle VIN System | | 237D0-XXXXX LEAF 1N4AZ0CPXXX XXXXX EV/HEV | (X |
| Part number before Reprog/programming Vehicle VIN System Date | | 237D0-XXXXX LEAF 1N4AZ0CPXXX XXXXX EV/HEV 25/07/2011 16/30/00 | (X Retry |
| Part number 3efire Reprog/pergramming Vehicle VIN System Dete Error Code | | 237D0-XXXXX LEAF 1N4AZ0CPXXX XXXXX EV/HEV 25/07/2011 16:30:00 | (X Rety |

Figure 19

If reprogramming does <u>not</u> complete and the "X" icon displays as shown in Figure 20:

- Check battery voltage (12.0 15.5 V).
- CONSULT A/C adapter is plugged in.
- Ignition is ON, Ready Mode is OFF.
- Transmission is in Park.
- All C-III plus / VI cables are securely connected.
- All C-III plus updates are installed.
- Select <u>Home</u>, and restart the reprogram procedure from the beginning.

| CONSULT-IL BUS Vir. | MN | Vehicle : QASHQAI | | County : Japan |
|---|--|---|------------------|----------------|
| Bark Hone Print Scree | Ne Screen No. | Recorded Data | 🚓 🧦 🗙 | - |
| Configition | Transfer Data | Confirm Resut | | 919 |
| Confirm Result | | | | |
| Reprogramming is not complet -Print this screen as needed. C with precedure. -Restart CONSULT with discon- | ed property. onfirm CONSULT version, K necting VI once, and start th | 3N/Power switch position, shift e reprogramming again. | position and etc | |
| Part number after Reprog/programming | | 237D0-XXXXX | | |
| Current part number | | 237D0-XXXXX | | |
| Vehicle | | LEAF | | |
| VIN | | 1N4AZ0CPXXX XXXX | xx | |
| System | | EV/HEV | | |
| Date | | 25/07/2011 16:30:00 | | |
| Information | | | | |
| Error Code | | | | Print |
| | | | | |
| | Fig | ure 20 | | |

- b. 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 21 will read **ON** after pressing the power switch twice.
- c. Wait for the bar graph in the **ERASE** window to complete 100%.

| | | CHP BLOW AVIII | Country: U.S.A. |
|---|------------------------------------|---------------------------------------|-----------------|
| ack Reme Print: Screen Capture | Mensarererer Mode | 13.2V VI MI | - |
| Configuration | Erase AI DTC s | Print: Result / Operation Complete | 13/14 |
| Erase AII DTCs | | | |
| According to the Instruction below, erase All 0 1 Turn ignition switch to the ON position, then Current status of ignition switch | All DTCs are automatically erased. | to I | |

Figure 21

24. 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**.

| CONSULT-III plus Ver | VIN: | Vehicle : LEAF ZEO 201 | | Country : U.S.A. | | |
|--|---|--|--------------------------------|------------------|----------|-----------|
| task Banne Print Screen | Screen Cepture | Recorded Balance 13.2W | | | | |
| Configuration | Erase All DTCs | Print Result / Operation Complete | | 14/14 | | |
| Print Result / Operation Complete | | | | | | |
| All tasks are completed. Confirm L In case CONSUL: can NOT immed temporally storage of this page. To Data Folder" on desk top, and oper | AN access, touch "Pri lately access to LAN o uch "Screen Capture", a the folder named "Scr | nt" to print out this page. printer, Screen Capture function is and save it. Screen capture data is eenimages". | available for in "Cill plus | | | |
| Part number after Reprogiprogramming | Step 🛒 | 237D0 - xxxxx | | | | |
| Part number before Reprog/programming | 24 🛁 | 237D0 - xxxxx | | | | |
| Vehicle | | ZE0 LEAF | | | | |
| VIN | | 1N4AZ0CPXXX XXXXXX | | | | |
| System | | EV/HEV | | Print | St St | ер |
| Date | | x000000000000000000 | | | | 4a |
| | | 1/1 | • | Confirm | St 2/ | :ep 4c |

Figure 22

- 25. Once reprogramming has completed:
 - a. Select Home.
 - b. Turn "ignition" off (depress power switch once).
 - > <u>Do not</u> close C-III plus at this time.
 - c. Disconnect the battery tester/charger from the 12 V battery.

| CONSULT-III plus Ver V14 11 00 | VIN | Vehicle 1 EAE 7E0 20 | 11 | Country : U.S.A | Ι, | |
|--|--|---|-------------------|-----------------|----|------------|
| Back Home Print Screen | Screen Capture | Recorded Help 12.5 | VI MI | | | Step 26 |
| Configuration | Erase All DTCs | Print Result / Operation Complete | | 14/14 | ' | |
| Print Result / Operation Complete | | | | | | |
| All tasks are completed. In case CONSULT can Ne temporally storage of this Data Folder" on desk top. Part number after | ^{on} "Complete Operation backing Home once. necessary document | " Screen is no longer shown after In case "Complete Operation" Scre , touch "Cancel" to back previous | ren is screen. | | | |
| Reprog/programming | | | | | | |
| Part number before Reprog/programming Vehicle | Ð | | - | | | |
| VIN | Home | Cancel | | | | |
| System | | | | Print | | |
| Date | | 1/11/2012 2:04:13 PM | | | | |
| | Step 25a | 1/1 | | Confirm | | |
| | | | | | 1 | |

Figure 23

26. Close C-III plus (Figure 23).

• <u>Do not</u> turn off the CONSULT PC.

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

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

28. Open C-III plus.

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

30. Confirm that there are no DTCs present.

• Erase any DTCs that are present.

31. 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 once).

32. 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 multifunction control panel.

Proceed to the next page.

PTC Heater Replacement

WARNING: This procedure involves high voltage and should only be performed by a certified LEAF technician.

NOTE: Confirm if the timer for either charging or climate control are on. If on, turn them off and make sure to turn them back on after the PTC has been replaced and reprogramming completed.

1. Remove the HVAC case from the vehicle.

NOTE: Refer to the ESM section VENTILATION, HEATER & AIR CONDITIONING / HA-Heater & Air Conditioning System / REMOVAL AND INSTALLATION / HEATING AND COOLING UNIT ASSEMBLY for the procedure to remove and replace the Heating and Cooling Unit Assembly (HVAC case) from the vehicle. With the HVAC case removed from the vehicle and on a work bench:

2. Remove the three T20 Torx screws that attach the ducting (shown in Figure 24).



Figure 24

3 Leave the harness, shown in Figure 25, attached to the duct and gently fold the duct away from the PTC heater.



Figure 25

- 4. Remove two T20 Torx screws and four tamper proof T30 Torx bolts securing the PTC heater shield (shown in Figure 26).
 - Removed shield shown in Figure 27.



Figure 26



Figure 27

5. Disconnect PTC heater harness from the HVAC case (shown in Figure 28 and Figure 29).



Figure 29

6. Remove high voltage harness (shown in orange) from under the lower shield (Figure 30).

WARNING: This harness <u>must</u> be returned to this position under this shield on reassembly.



7. Remove the two T20 Torx screws that secure the PTC heater to the HVAC case and disconnect harness connector (shown in Figure 31).



Figure 31

- 8. Slide the PTC heater gently out of the HVAC case (Figure 32).
- 9. Install the new PTC heater into the HVAC case.



Figure 32

10. Reinstall the harnesses and shields in the reverse order.

WARNING:

- The high voltage harness <u>must</u> be routed as shown in Figure 33, and it must be <u>under</u> the lower shield. NOTE: Figure 33 has the lower shield removed for reference only. Figure 30 on page 22 shows the harness under the lower shield.
- Confirm that the high voltage harness clip is securely attached to the PTC heater shield as shown in Figure 33.



Figure 33

11. Verify that the ground harness connectors are correctly aligned (shown in Figure 34 and Figure 35).



• If not as shown, loosen bolts and realign then retighten.

Figure 35

12. Reinstall the HVAC case into the vehicle in the reverse order.

Refer to the ESM section VENTILATION, HEATER & AIR CONDITIONING / HA-• Heater & Air Conditioning System / REMOVAL AND INSTALLATION / HEATING AND COOLING UNIT ASSEMBLY for the procedure to remove the HVAC case from the vehicle.

PARTS INFORMATION

| DESCRIPTION | PART # | QUANTITY |
|-------------|-------------|----------|
| PTC Heater | 27143-3NF1A | 1 |

CLAIMS INFORMATION

| OPERATION | OP CODE | PFP | SYM | DIAG | FRT |
|--|---------|-------------|-----|------|-----|
| Replace PTC Heater | TB32AA | | | | |
| Evacuate/Recharge - R134A Systems Only | TB777A | 27143-3NF1A | GA | 32 | (1) |
| Reprogram VCM | JQ99AA | | | | . , |

(1) Reference the current Nissan Warranty Flat Rate Manual and use the indicated flat rate time.

| EXPENSE CODE | DESCRIPTION | AMOUNT |
|--------------|-------------------|--------|
| 010 | R134A Refrigerant | (1) |

(1) The refrigerant should have been recovered prior to removing the PTC heater. Only bill if the system required additional refrigerant as needed.