VOLUNTARY RECALL CAMPAIGN

NTB23-074A

Date: October 19, 2023

VOLUNTARY SAFETY RECALL CAMPAIGN 2023 ARIYA; INVERTER REPROGRAM

This bulletin has been amended. See AMENDMENT HISTORY on the last page. Please discard previous versions of this bulletin.

CAMPAIGN ID #: APPLIED VEHICLES: R23C6 2023 ARIYA (FE0)

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

INTRODUCTION

Nissan is conducting this voluntary safety recall campaign on certain specific model year 2023 ARIYA vehicles to reprogram the Inverter. This service will be performed at no charge to the customer for parts or labor.

IDENTIFICATION NUMBER

Nissan has assigned identification number R23C6 to this campaign. This number must appear on all communication and documentation of any nature dealing with this campaign.

DEALER RESPONSIBILITY

It is the dealer's responsibility to check Service COMM or Dealer Business Systems (DBS) National Service History for the campaign status on each vehicle falling within the range of this voluntary safety recall which for any reason enters the service department. This includes vehicles purchased from private parties or presented by transient (tourist) owners and vehicles in a dealer's inventory. **Federal law requires that new vehicles in dealer inventory which are the subject of a safety recall must be corrected prior to sale. Failure to do so can result in civil penalties by the National Highway Traffic Safety Administration**. While federal law applies only to new vehicles, Nissan strongly encourages dealers to correct any used vehicles in their inventory before they are retailed.

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

Reprogram the Inverter(s) (MOTOR CONTROL and REAR MOTOR CONTROL on AWD MODELS)

IMPORTANT: Before starting, make sure:

- ASIST on the CONSULT PC has been synchronized (updated) to the current date.
- All CONSULT 4 software updates (if any) have been installed.
- Connect the CONSULT PC to the Internet via Wi-Fi.

HINT: If Wi-Fi connection is not sufficient or is unstable, data may not download correctly during the reprogramming procedure.

NOTICE

- Connect a battery maintainer or smart charger set to reflash mode or a similar setting. If the vehicle battery voltage drops below <u>12.0V or rises above 13.5V</u> during reprogramming, <u>the inverter may be damaged</u>.
- Be sure to turn OFF all vehicle electrical loads (e.g. A/C, headlamps, audio). If a vehicle electrical load remains ON, <u>the inverter may be damaged</u>.
- Be sure to connect the AC Adapter.
 If the CONSULT PC battery voltage drops during reprogramming, the process will be interrupted and <u>the inverter may be damaged</u>.
- Turn OFF all external Bluetooth[®] devices (e.g., cell phones, printers, etc.) within
 range of the CONSULT PC and the VI. If Bluetooth[®] signal waves are within range
 of the CONSULT PC or VI during reprogramming, reprogramming may be
 interrupted and <u>the inverter may be damaged</u>.
- 1. Make sure the vehicle is OFF.
- 2. Connect the VI3 to the vehicle.
- 3. Turn the hazard lamps ON.
- 4. Set the vehicle to ACC mode.
 - Press the start button one (1) time without depressing the brake pedal.
- 5. Verify the CONSULT PC is connected to the internet.
- 6. Start CONSULT 4 on the CONSULT PC.

7. If prompted, select **USA/CANADA Dealers** from the drop-down menu, and then select **OK**.



Figure 1

8. Login using your NNAnet credentials, and then select **Submit**.

IMPORTANT: If not prompted to enter your username and password, the CONSULT PC may not be connected to Wi-Fi. Close CONSULT 4, confirm the CONSULT PC is connected to Wi-Fi, and then reopen CONSULT 4.

| X NNA Federation | | - | | Х |
|------------------|------------------------------|--------|-------|---|
| | | | | Î |
| NNA Federation | | | | |
| Piez | ase enter your UserID below. | | | |
| Use | ername: Username | | | |
| Pas | sword: Password | | | |
| | Submit | | | |
| | | | | |
| | | | | |
| Restart Login | | SPower | ed by | - |

Figure 2

9. Allow the CONSULT 4 to connect to the VI3 and to perform vehicle system call.



Figure 3



Figure 4

- 10. Ensure that the vehicle's 12 volt battery voltage stays between 12.0-13.5V.
- 11. Select Vehicle reprogramming.

| GRADE-X Mobile | | | | | | 9 X |
|---------------------------|--------------|---|---|--|---|-----|
| C4 | | @ | | | 🖄 🖪 🛅 12.6V | ≡ |
| 合 Home | | | | | | |
| | | ECU 🕂 System | | Batte | erv voltage | ^ |
| Vehicle menu | < | No support for All DTC re | eading. (1) | | , see a s | |
| Diagnosis menu | | (Ø) | | | | D |
| Home | @ | HVAC | | | | |
| Network diagnosis | 쁆 | No DTC (33) | | | | |
| All self diagnosis result | | 8 channel controller | (C) ABS | ADAS CONTROL | (C) AIR BAG | 10 |
| Start menu | _ | 2 | , | UNIT 2 | , | 155 |
| Quick maintenance | Æ9 | | (♥) | (♥) | | |
| Change vehicle | 8 | VEHICLE SOUND FOR PEDESTRIANS | BCM | Calculator Power Line Communication | CHARGER/POWER DELIVERY MODULE | |
| Tool menu | | | | | | |
| Data monitor | \mathbf{P} | Chassis control | C/DC CONVERTER | (🕑) DRIVER SEAT | Electrically-driven | |
| Replace ECU | | | | | intelligent brake unit | |
| Vehicle reprogramming | 0 < | | EPS/Direct adaptive | | | |
| | | | Figure 5 | | | |

- 12. Allow CONSULT 4 to check for reprograms.
 - This process may take several minutes.

| C4 | | 0 | • | O XXXXXXX | | xxxxx 👌 | (21) | |
|--------|-----------------|------|------|-----------|--------|---------|------|---|
| ය Home | Vehicle repro × | | | | | | | |
| | | | | | | | | ^ |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | - | | | | | |
| 2 | Load | ling | data | for IP | DM E/R | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Figure 6

- 13. Scroll down to locate MOTOR CONTROL.
 - Select the "play" icon for **MOTOR CONTROL**, as shown in Figure 7.
 - If **MOTOR CONTROL** or **REAR MOTOR CONTROL** is missing from the control unit list:
 - a. Select the "Home" tab.
 - b. Select the applicable control unit.
 - c. Select ECU Identification.
 - d. Compare the current ECU part number to the part numbers in Table A.
 - If the part number is NOT listed in **Table A**, no further action is necessary.

Table A

| CURRENT MOTOR CONTROL PART | CURRENT REAR MOTOR CONTROL |
|-----------------------------------|----------------------------|
| NUMBER: 291D0 - | PART NUMBER: 291D0 - |
| 5MP0A, 5MP0B, 5MP2A, 5MP2B, 5MP2C | 5MR0A, 5MR0B, 5MR0C |

| 合 Home | Vehicle repro | o × | | | | |
|--------|-------------------------|-----|------------|------------|-----|------|
| | | | | | | ~ |
| | INTELLIGENT KEY | CFG | - | - | 0 | - |
| | Chassis control | CFG | - | | 0 | |
| | MOTOR CONTROL | OBD | 291D05MP2B | 291D05MP2D | 0 < | |
| | REAR MOTOR CONTROL | OBD | 291D05MR0B | 291D05MR0D | 0 | |
| | MULTI AV | CFG | - | - | 0 | |
| | Calculator Power Line | CFG | - | | 0 | |
| | Side radar (Rear left) | CFG | - | - | 0 | |
| | Side radar (Rear right) | CFG | - | - | 0 | |
| | | | | | | Exit |

Figure 7

- 14. Select the "X" as shown in Figure 8.
 - Do not enter anything into the **Vehicle information** box.

| 合 Home | 🛱 Vehicle repro 🗙 | | | |
|-----------------------|---------------------------------------|----------------------|----------------------|----|
| MOTOR CONTRO | | | | ~ |
| Vehicle information i | | | | |
| F | Please input the specified value only | in mounting vehicle. | | |
| | ECU | Programming method | Vehicle informaton | |
| | MOTOR CONTROL | OBD | | |
| | | | | _ |
| | | | Leave this box blank | |
| | | L | | |
| This ECU is either | not reprogrammable or not applicabl | 6. | | θ× |

Figure 8

15. Select Next.

| 合 Home | 📋 Vehicle repro 🗙 | | | | | | |
|---|---------------------------------------|----------------------|---------------------|------|--|--|--|
| MOTOR CONTROL | | | | | | | |
| Vehicle information input for special cases(mounting vehicle) | | | | | | | |
| | Please input the specified value only | in mounting vehicle. | | | | | |
| | ECU | Programming method | Vehicle informaton | | | | |
| | MOTOR CONTROL | OBD | | | | | |
| | | | | - | | | |
| | | | eave this box blank | | | | |
| | | | | | | | |
| | | | | Next | | | |

Figure 9

16. Verify the VIN and then select **Next** to download the software.

| GRADE-X Mobile | | | | | | | | | | - | o × |
|----------------|----------------|-----------------------|--------------------|-------------|----------------------|--------------------|------------------------------|--------|-----|------|-----|
| C4 | | Ó | : 🕕 | O xx | XXXXX 🗛 | VIN: | ***** | ථි | (_) | 12.7 | |
| 合 Home 🛔 | Vehicle repro | × | | | | | | | | | |
| MOTOR CONTROL | | | | | | | | | | | ^ |
| Cor | nfirm program | nming data | | | | | | | | | |
| Vel | hicle name | | | VIN | | | | | | | |
| AR | RIYA | | | xx | xxxxxx | xxxx | xxxx | | | | |
| EC | CU | Programming method | Current p numbe | oart r | Part numl prograr | ber after nming | r Programming time (min.) | | | | |
| MC | OTOR ONTROL | OBD | 291D05M | P0B | 291D05 | MP0C | 5 | * | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | Į | - |
| | | | | | | | | Cancel | | Nex | t i |

Figure 10

17. Select Next.

| GRADE-X Mobile | | 0 | : | O xx | XXXXX 🚑 VIN: | xxxxxxxxxxxxx | xxx 🖄 | (2) | - 0 × |
|----------------|-----------------------|---------------|-------------|----------|--------------|---------------|-------|-----|-------|
| 合 Home | Vehicle repro × | | | | | | | | |
| MOTOR CONT | ROL | | | | | | | | ^ |
| Data download | | | | | | | | | |
| | MOTOR CONTROL (OBD) - | Downloading i | n progress, | please w | ait 100% | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | _ |
| | | | | | | | | | |
| | | | | | | | | | Next |

Figure 11

18. Verify the 12 volt battery is between 12.0V and 13.5V, and then select **Next**.

| 佘 Home | Uehicle repro × | | |
|--------------|--|------------|-------------|
| MOTOR CONTRO | L | | ~ |
| T | The following conditions must be met in order to perform reprogramming. | | |
| | Condition | Value | |
| | 5 11.5 16 20 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 20 | 12.74 V | * |
| | | C | Cancel Next |

Figure 12

19. When the screen in Figure 13 is displayed, verify the headlamps and HVAC are turned OFF, and then press and hold the power switch for 5 seconds until a click sound is heard under the hood; the ignition turns OFF, and the blue charge indicator on the dash is no longer flashing.

| the the terror | | |
|--|----------------------|-----|
| MOTOR CONTROL | | ~ |
| All Preconditions should be OK before going for Flashing | | |
| Condition | Value | |
| Motor speed 1 Vxx_emot_n | 0 rpm | ~ |
| Inverter input voltage (High voltage) PEB_Vxx_udc | 371.53 V 371.53 V | 222 |
| Re-programming judgement result Verlog Reprograming Enable | Reprograminng enable | ~ |
| | | |

Figure 13

20. Once the **Inverter input voltage (High voltage) PEB_Vxx_udc** shows the check mark, as shown in Figure 14, press the power switch one time to turn the ignition to ACC mode.

| GRADE-X Mobile | Ó | • | O xxxxxx | Rev VIN: | **** | ८ (■ | 1 🚞 | - a × 12.1V |
|--|----------|--------------|-----------------|----------|---------|-------------|-----------|----------------|
| | | | | | | | | ^ |
| All Preconditions should be OK bef | ore goir | ng for Flash | ing | | | | | |
| Condition | | | | | Value | | | |
| Motor speed 1 Vxx_emot_n | | | | | 0 rpm | | 0 rpm | ~ |
| Inverter input voltage (High voltage) PEB_Vxx_udc | | | | | 26.03 V | | 26.03 V | ~ |
| Re-programming judgement result Verlog Reprograming Enab | ble | | | | Re | programinng | g Disable | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | Cancel | | Next |

Figure 14

21. Once all three (3) items display a check mark, as shown in Figure 15, select Next.

| ŵ Home | | |
|--|----------------------|-----|
| MOTOR CONTROL | | ~ |
| All Preconditions should be OK before going for Flashing | | |
| Condition | Value | |
| Motor speed 1 Vxx_emot_n | 0 rpm 0 rpm | ~ |
| Inverter input voltage (High voltage) PEB_Vxx_udc | 10.13 V 10.13 V | ~ |
| Re-programming judgement result Verlog Reprograming Enable | Reprograminng enable | ~ |
| | Cancel Ne | ext |

Figure 15

IMPORTANT: If an error occurs during reprogramming, skip to step 43 on page 18 for **Inverter Recovery**.

- 22. Allow the reprogram to complete.
 - This process takes approximately 10 minutes.

| ŵ Home | |
|--------------------------------|------|
| MOTOR CONTROL | ^ |
| ReprogrammingMOTOR CONTROL ECU | |
| | |
| | |
| | |
| | |
| | |
| | |
| ReprogrammingMOTOR CONTROL | |
| ECU (remaining time: 00:06:10) | |
| | Next |

Figure 16

23. Once the screen in Figure 17 is displayed, select **START**.

| ☆ Home | | |
|--|---------|----------|
| MOTOR CONTROL | | <u> </u> |
| i OTA status reset | | |
| Reprogramming was done, OTA status is reset. | | |
| Current status | Waiting | START |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | Next |

Figure 17

24. Confirm the **Current status** has changed to "Completed" and then select **Next**.

| ය Home | 🛱 Vehicle repro 🗙 | | |
|----------------------|--------------------------|-----------|--------------|
| MOTOR CONTRO |)L | | ~ |
| i OTA status reset | | | |
| Reprogramming was do | ne, OTA status is reset. | | |
| | | | _ |
| Current status | | Completed | START |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | _ |
| | | | |
| | | | |
| | | | \checkmark |
| | | | Next |

Figure 18

IMPORTANT: The screens in Figure 19 and Figure 20 will NOT display when reprogramming REAR MOTOR CONTROL on AWD vehicles.

- 25. Confirm that the **IGN SW** status is "On" and has a **Waiting time** of "300" seconds.
 - This is equal to 5 minutes.
- 26. Press the power switch one (1) time, to turn the ignition "Off".
 - a. Waiting time should count down automatically; leave the vehicle OFF until the count reaches "0".
 - b. Select Next.

| ය Home |) Vehicle repro X | | |
|--|---|--|---|
| MOTOR CONTROL | | | ^ |
| i Turn on the high power r | relay. You need to turn off the hazard, set the Shi | ift position to P, turn off IGN, and wait 300 seconds. | |
| 1 After following the above in 2 Touch "Next" to go to next | nstructions, turn off IGN and wait until the waiting operation. | ; time is complete. | |
| IGN SW | | On | |
| Waiting time | | 300 | |
| | | | |
| IGN SW | | Off | |
| Waiting time | | 295 | |
| 1 | | | |
| IGN SW | | Off | |
| Waiting time | | ° | 7 |
| | | Next | |

Figure 19

27. Press the power switch one (1) time to turn the ignition to ACC mode, and then select **Next**.

| CAC GRADE X Mobile | Ó | : | O xxxxxx | | - 0 × |
|---|---|---|----------|---|-------|
| Home | | | | | |
| MOTOR CONTROL | | | | | |
| 1 Turn ignition switch from the OFF position to the ON position. 2 Touch "Next" to go to next operation. | | | | D | Next |

28. Verify the **Current** (New) Part Number is different than the **Previous** (Old) Part Number, and then select **Complete**.

| MOTOR CONTROL | Post | ~ | | | | | | | |
|--|--|---|--|--|--|--|--|--|--|
| Reprogrammable ECU Image: Second State ECU Programmi ng method ECU saved Update status Previous Current Auto configuratio | Post | | | | | | | | |
| ECU Programmi ECU saved Update Auto ng method data status Previous Current configuratio | Reprogrammable ECU Programmi ECU saved Update Previous Current configuratio replaceme | | | | | | | | |
| n | replaceme nt | | | | | | | | |
| MOTOR CONTROL OBD - 🖌 291D05MP2B 291D05MP2D - | × | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Figure 21

29. Is the vehicle equipped with AWD?

YES: Go back to step 13 on page 6 and select **REAR MOTOR CONTROL**. Perform steps 13 - 28 to reprogram the Rear Motor Control, and then proceed to step 30.

NO: Continue to step 30.

- 30. Close CONSULT 4 by selecting the X in the upper right hand corner.
- 31. Turn the vehicle OFF by depressing the Start button one (1) time.

- 32. Disconnect the VI3 from the vehicle.
- 33. Remove the keys from the vehicle.
- 34. Disconnect the battery maintainer/smart charger.
- 35. Close the hood and all doors, and then lock the vehicle using the key fob.
- 36. Wait at least 5 minutes.

IMPORTANT: Do NOT disturb the vehicle during the 5 minute wait period to ensure the vehicle goes into sleep mode.

- 37. Reconnect the VI3 and set the vehicle to "READY" mode by depressing the brake pedal and depressing the power switch one (1) time.
- 38. Start CONSULT 4 on the CONSULT PC, and perform System Call.
- 39. Confirm if any Past DTCs are present.

| GRADE-X Mobile | | | | | | | | | - | a × | |
|---------------------------|---------|----------------------------------|--------------|-------------------|------------------|-----------|------|--------|---------------|-----|--|
| C4 | | .0 | • • | O XXXXXXXX | | XXXXXXXXX | ති (| | 1 3.1V | = | |
| ය Home | | | | | | | | | | | |
| | | ECU 🛨 System | | | | | Q | С | ↓Å | ^ | |
| Vehicle menu | < | Past DTC (1) | | | | | | | | | |
| Network diagnosis | 쁆 | High Voltage Battery 2 | | | | | | | | | |
| All self diagnosis result | ,Qa | No support for All DTC: | reading (1) | | | | | | | | |
| Start menu | | No support for Air Dict | reading. (1) | | | 1 | | | | | |
| Quick maintenance | B | (Ø) HVAC | Exa | mple of P | ast DTCs | | | | | | |
| Change vehicle | 8 | | | | | | | | | | |
| Tool menu | | No DTC (32) | | | | - | | | | | |
| Data monitor | ₩. | 8 channel controller | (🕗) | ARS | ADAS CONTR | OL | 0) | | 3 | | |
| Replace ECU | | 2 | | AD3 | UNIT 2 | | | AIRDA | 2 | | |
| Vehicle reprogramming | 0 | APPROACHING | (🕗) | BCM | Calculator Power | Line | CHA | RGER/P | OWER | | |
| Diagnostic history | | FOR PEDESTRIANS | | | Communicatio | n | DELN | ERY M | ODULE | | |

Figure 22

- 40. If any Past DTCs are present, perform **Erase All DTC** as follows:
 - a. Select All self diagnosis result (Figure 23).
 - b. Select the Erase DTC icon, and then select Yes to erase (Figure 24).

| GRADE-X Mukile | | | | | | | | | | | - | 8 × |
|---------------------------|----------|------|----------|-----------|----------|-------------|-----------|---|---|---|-------|-----|
| C4 | | | | 0 | 0 🕚 | | A VIN: XX | 000000000000000000000000000000000000000 | 8 | | 13.4V | |
| ය Home | | | | | | | | | | | | |
| | | | | | | | | | | V | B | ^ |
| Vehicle menu | < | 1 Re | eading [| OTC is ir | n progre | ess, please | wait | | | | | |
| Diagnosis menu | | | | | | | | | | | | |
| Home | ⊘ | | | | | | | | | | | |
| Network diagnosis | 쁆 | | | | | | | | | | | |
| All self diagnosis result | ,Qa | | | | | | | | | | | |
| Start menu | | | | | | | | | | | | |
| Quick maintenance | B | | | | | | | | | | | |
| Change vehicle | 8 | | | | | | | | | | | |
| Tool menu | | | | | | | | | | | | |
| Data monitor | <u>v</u> | | | | | | | | | | | |
| Replace ECU | | | | | | | | | | | | |
| Vehicle reprogramming | 0 | | | | | | | | | | | |

Figure 23



Figure 24

41. Verify all DTCs have erased.

| GRADE-X Mobile | | | 0227 | | | 0.00 | | | 10.101 | П | × |
|---------------------------|---------------|--|------|---|----------|----------------|----|------|---------------|------------|-------|
| C4 | | | ø | 0 | O xxxxxx | K 🚔 VIN: , XXX | | x 💍 | (12) (| 12.7V | = |
| ය Home | | | | | | | | | | | |
| | | | | | | | SF | ध 🕞 | V | 8 | ^ |
| Vehicle menu | < | 🕑 No DTC | | | | | | | | | |
| Diagnosis menu | | | | | | | | | | | |
| Home | ൫ | | | | | | | | | | |
| Network diagnosis | 쁆 | | | | | | | | | | |
| All self diagnosis result | , Ca | | | | | | | | | | |
| Start menu | | | | | | | | | | | |
| Quick maintenance | Ð | | | | | | | | | | |
| Change vehicle | 8 | | | | | | | | | | |
| Tool menu | | | | | | | | | | | |
| Data monitor | \mathcal{V} | | | | | | | | | | |
| Replace ECU | 0 | | | | | | | | | | |
| | 24 2 | a ai | | | | | ^ | 6 61 | - 4 1. | 2.03 PM | . 12. |
| | Prant . | and the second | | | 05 | | | | | 1102302025 | U. |



- 42. Close CONSULT 4 by selecting the X in the upper RH corner (Figure 26).
 - a. Turn the vehicle OFF by depressing the power switch one (1) time.
 - b. Disconnect the VI3 from the vehicle.
 - c. Reprogramming is complete. Continue to **CLAIMS INFORMATION** on the last page.

| CIRADE-X Mobile | | | | | | | | | | | | × |
|---------------------------|----------|----------|---|---|-----------------|---------|------------|-------|------------|---|----------------------|----------|
| C4 | | | 6 | 0 | O xxxxxx | VIN: XX | xxxxxxxxxx | xxxxx | 8 | • | 12.7V | \equiv |
| ය Home | | | | | | | | | | | | |
| | | | | | | | | SRT | ø | 7 | 8 | ^ |
| Vehicle menu | < | 😔 No DTC | | | | | | | | | | |
| Diagnosis menu | | | | | | | | | | | | |
| Home | ⊘ | | | | | | | | | | | |
| Network diagnosis | 쁆 | | | | | | | | | | | |
| All self diagnosis result | A I | | | | | | | | | | | |
| Start menu | | | | | | | | | | | | |
| Quick maintenance | Ð | | | | | | | | | | | |
| Change vehicle | 8 | | | | | | | | | | | |
| Tool menu | | | | | | | | | | | | |
| Data monitor | 2 | | | | | | | | | | | |
| Replace ECU | 0 | | | | | | | | | | | |
| Mobiolo sonsogrammine | | | | | | | | | | | | _ |
| 🔳 🔉 💽 🗖 | E | Ø | | | | | | | B - | | 203 PM 11/23/2022 | - |

Figure 26

43. Select **MOTOR CONTROL** or **REAR MOTOR CONTROL** (The control unit that failed the reprogram).

| G Home | | | | | | | | | 0 |
|-------------------------|------------|--------|-------------------|--|------------------------------|------|-------|-------|---|
| | | ECU (+ | System | | | 0 | 0 | 12 | ~ |
| Vehicle menu | < | ∧ Com | nmunication error | (1) | | | | | |
| Diagnosis menu Home | Ø | MC | TOR CONTROL | | | | | | |
| Network diagnosis | å | ~ Net | work communicat | ion error (5) | | | | Qa, | > |
| All self diagnosis resu | t ,Qa | (0) | | (0) | (O) Calculator Power Line | (0) | | | |
| Quick maintenance | ß | | EV/HEV | HV BATTERY | Communication | HEAI | DUPDI | SPLAY | |
| Change vehicle | 8 | (0) | METER2 | | | | | | |
| Data monitor | <u>1/r</u> | ∧ Curr | rent DTC (3) | | | | | | |
| Replace ECU | | (0) | ABS | Electrically-driven intelligent brake unit | (O) IPDM E/R | | | | |

Figure 27

44. Select Select ECU type.

| G Home | | No. | 9 |
|----------------------|--------------------------------------|-------------|--------------------------------|
| MOTOR CONTROL | | * | ^ |
| Vehicle menu 🔇 | ECU has no part number. ECU menu | - | > |
| Diagnosis menu | Diagnosis men | u . | |
| Home 🚫 | ECU ider | ntification | @ |
| Helwork diagnosis | Select E | CU type | $\langle \mathfrak{O} \rangle$ |
| All self diagnosis 💭 | Replac | e ECU | |
| Start menu | | | |
| Duick maintena 🌮 | | | |
| Change vehicle 😫 | | | |
| Tool menu | | | |
| Data monitor | | | |
| Replace ECU | | | |
| Vehicle reprogra | | | |

Figure 28

45. Select N_PZ1A_PEB_UDS, then select Next.

• System Call will automatically restart.

| G Home | | | | 9 |
|------------------------|----------------|---------------------------|--------------------|-------------------------|
| MOTOR CONTROL | | March | p | ~ |
| Vehicle menu 🔇 | N_PZ1A_PEB_UDS | | ECU menu | > |
| Diagnosis menu | | | Diagnosis menu | |
| Home 🐼 | | Next | ECU identification | (2) |
| Network diagnosis | | | Select ECU type | @ |
| All self diagnosis, Qa | | | Replace ECU | Ø |
| Start menu | | | | |
| Quick maintena B | | _ | | |
| Change vehicle 😫 | | | | |
| Tool menu | | | | |
| Data monitor | | | | |
| Replace ECU | | | | |
| Vehicle reprogra | | | | |

Figure 29

46. Select Replace ECU.

| G Home | | | | G |
|---------------------------|---|----------------------------|-----------------------|-----------------|
| | ECU 💮 System | | | 0 C 12 🔨 |
| Vehicle menu | Communication error | (1) | | |
| Diagnosis menu | () | | | |
| Home 🚫 | MOTOR CONTROL | | | |
| Network diagnosis | Network communication | on error (5) | | Qa > |
| All self diagnosis result | (0) | (0) | | (0) |
| Start menu | EV/HEV | HV BATTERY | Calculator Power Line | HEAD UP DISPLAY |
| Quick maintenance | | | communication | |
| Change vehicle 😫 | (O) METER2 | | | |
| Tool menu | | | | |
| Data monitor | Current DTC (3) | | | |
| Replace ECU | | (O) Electrically-driven | (0) | |
| Vehicle reprogramming | ABS | intelligent brake unit | IPDM E/R | |
| | | Figure 30 | | |

47. Select Yes.

• If the screen in Figure 31 is not displayed, locate and select the applicable control unit in the displayed list.

| A Home Replace ECU X | 0 |
|---------------------------------------|-----|
| MOTOR CONTROL | ~ |
| Replaced ECU has been detected. | |
| Perform programming or configuration? | |
| | |
| | |
| | |
| | |
| | |
| Cancel Continue later | Yes |

Figure 31

48. Select Next.

| A Home | i∎i Replace ECU X | | | |
|----------------------|---------------------------------------|--------------------------------------|----------------------|------|
| MOTOR CONT | ROL | | | ~ |
| • Vehicle informatio | on input for special cases(mounting v | | | |
| | In normal operation, please touch | "Next" without inputting anything in | vehicle information. | |
| | ECU | Programming method | Vehicle informaton | |
| | MOTOR CONTROL | OBD | | |
| | b | | | Next |

Figure 32

49. Select Next.

| G Home | Replace EC | u × | | | | | - |
|----------|------------------|-----------------------|-----------------------|------------------------------------|----------------------------|--------|-----------|
| MOTOR CO | NTROL | | | | | | · · · · · |
| | Confirm prog | ramming data | | | | | |
| | Vehicle name | | | VIN | | | |
| | ARIYA | | | **** | | | |
| | ECU | Programming method | Current par number | t Part number after programming | Programming time (min.) | | |
| | MOTOR CONTROL | OBD | 291D05MP0 | A 291D05MP0C | 5 | Ł | |
| | | | | | | Cancel | Next |

Figure 33

- 50. Allow the data to download.
- 51. Battery voltage MUST stay between <u>12.0V and 13.5V</u> for the duration of the reprogram.
- 52. Select Next.

| A Home Replace ECU X | | 0 |
|--|--------------------------|-----|
| MOTOR CONTROL | | - |
| All Preconditions should be OK before going for Flashing | | |
| Condition | Value | |
| Motor spood 10 Vxx_emot_n | Communication error 0 | ~ |
| Netter input vottage (High vottage) | Communication error 0 | ~ |
| Verlog Reprograming Enable | Communication error | ~ |
| | Cancel N | ext |

Figure 34

53. Once the reprogram has started, return to step 22 on page 11 to complete the reprogramming process.

CLAIMS INFORMATION

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

| CAMPAIGN ("CM") ID | ") ID DESCRIPTION | | FRT |
|--------------------|--------------------------|--------|-----|
| R23C6 | Reprogram Inverter (FWD) | R23C60 | 0.8 |
| | Reprogram Inverter (AWD) | R23C61 | 1.2 |

AMENDMENT HISTORY

| PUBLISHED DATE | REFERENCE | DESCRIPTION | |
|--------------------|------------|-----------------------------|--|
| September 28, 2023 | NTB23-074 | Original bulletin published | |
| October 19, 2023 | NTB23-074A | Changes throughout | |