NISSA ECHNICAL SERVICE BULLETIN Classification:

Reference:

Date:

is ON in the instrument panel's

DA22-001B

NTB22-038B

June 20, 2023

RAB WARNING LIGHT ON IN INSTRUMENT PANEL AND/OR DTC B2724-23 STORED

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

APPLIED VEHICLES: 2019-2021 Altima (L34) 2019-2022 Murano (Z52) 2019-2021 Rogue Sport (J11) 2019-2021 Versa (N18) **APPLIED SYSTEMS:** Rear Automatic Braking (RAB)

IF YOU CONFIRM

The customer states the RAB warning light information display,

AND/OR

DTC B2724-23 (SONAR CONTROL UNIT - SONAR ECU INTERNAL FAILURE [UNDER VOLTAGE]) is stored.

ACTION

Reprogram and configure the Sonar Control Unit using the SERVICE PROCEDURE in this bulletin, 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.

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

Sonar Control Unit Reprogramming

IMPORTANT: Before starting, make sure:

- All CONSULT-III plus (C-III plus) software updates (if any) have been installed.
- The CONSULT PC is connected to the internet via a cable or Wi-Fi.
 - Later in the procedure you will be required to enter your username and password.
 - If you do not know your username and password, contact your service manager.
- A screen print for warranty documentation can be done from the CONSULT PC during this service procedure while still connected to the vehicle.
- No diagnostic trouble codes (DTCs) are stored.
 - Use C-III plus to perform Self Diagnosis for all systems.
 - If there are any DTCs, other than **B2724-23** and **C1B56-04**, diagnose, perform repairs, and erase DTC **before** continuing.
- 1. Connect the Vehicle Interface (VI) to the vehicle.
 - Make sure to use the correct VI for the CONSULT.

NOTICE

Make sure the VI is securely connected. If the VI connection is loose during reprogramming, the process will be interrupted and the control unit may be damaged.

2. Connect the AC Adapter to the CONSULT PC.

NOTICE

Be sure to connect the AC Adapter. If the CONSULT PC battery voltage drops during reprogramming, the process will be interrupted and the control unit may be damaged.

3. Connect a battery maintainer or smart charger set to reflash mode or a similar setting.

NOTICE

To avoid damage to the control unit, ensure a battery maintainer or smart charger is connected. The battery voltage must be between <u>12.0V and 15.5V</u> during reprogramming.

4. Turn OFF all external Bluetooth[®] devices (e.g., cell phones, printers, etc.) within range of the CONSULT PC and the VI.

NOTICE

Make sure to turn OFF all external Bluetooth[®] devices. If Bluetooth[®] signal waves are within range of the CONSULT PC and the VI during reprogramming, reprogramming may be interrupted and the control unit may be damaged.

5. Turn the ignition ON with the engine OFF.

NOTICE

To avoid damage to the control unit, the engine must not start or run during the reprogramming procedure.

- 6. Turn OFF all vehicle electrical loads such as exterior lights, interior lights, HVAC, blower, rear defogger, audio, NAVI, seat heater, steering wheel heater, etc.
- 7. Turn ON the hazard warning lamps.
- 8. Turn ON the CONSULT PC.
- 9. Start C-III plus.
- 10. If prompted, select **USA/CANADA Dealers** from the drop down menu, and then select **OK.**
- 11. Login using your NNAnet credentials.

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

- 12. Wait for the VI to be recognized.
 - The serial number will display when the VI is recognized.

| | Connee | ction Status | | Diagnosis Menu |
|------------------|----------|--------------------------|------------------------------------|-------------------------------|
| | | Serial No. | Status | Diagnosis (One System) |
| VI is ognized | VI | 2300727 | Normal Mode/Wireless connection | Diagnosis (All Systems) |
| | MI | | No connection | Re/programming, Configuration |
| | 20 | Select VI/MI | P | Immobilizer |
| | Applicat | tion Setting Sub mode | ABC Language Setting | Maintenance |
| | 2 | VDR | | |

13. Select Diagnosis (One System).

| | Serial No. | Status | Diagnosis (One System) |
|---------|--------------|------------------------------------|-------------------------------|
| VI | 2300727 | Normal Mode/Wireless connection | Diagnosis (All Systems) |
| мі | • | No connection | Re/programming, Configuration |
| 5 | Select VI/MI | | Immobilizer |
| oplical | tion Setting | ABC Language Setting | Maintenance |

Figure 2

14. Select SONAR.

| NISSAN/INFINITI/DATSUM | ·] | | |
|------------------------|--------------------|------------------------|---------------------|
| Priority | All system | ns 🔻 | |
| 4WAS(MAIN)/RAS/HICAS | EV/HEV | HV BATTERY | ANC |
| SONAR | POP UP HOOD | TOTAL ILLUM C/U | MULTI DISPLA |
| LANE CAMERA | AUTO BACK DOOR | OCCUPANT DETECTION | Side radar (Rear ri |
| ADAPTIVE LIGHT | Diag Data Recorder | SmFOB | ADCM |
| AUTO SLIDE DOOR RIGHT | 4WAS(FRONT) | BRAKE | PTC HEATER |
| CAN GATEWAY | E-SUS | Side radar (Rear left) | CHARGER/PD MOD |
| SHIFT | ACCELE PEDAL ACT | VSP | TELEMATICS |

Figure 3

15. Select ECU Identification.

- 16. Confirm the current **SOFTWARE #** (Figure 4). See **Table A** (below) for model specific **SOFTWARE #**.
 - If the **SOFTWARE #** is in **Table A**, this bulletin does not apply. See the Electronic Service Manual (ESM) for further diagnostic information.
 - If the **SOFTWARE #** is not in **Table A**, proceed to step 17.

| Back Mome Print Screen Screen Capture Diagnosis (One System) System Selection Self Diagnostic Result Data Monitor | Media Verticetto Mode Verticetto |
|--|--|
| ECU PART NUMBER | 28538XXXXX |
| SOFTWARE # | Bulletin does <u>not</u> apply if this number <u>is</u> in Table A |
| | 1/1 |

Figure 4

Table A

| MODEL | SOFTWARE # |
|-------------|---------------------|
| Altima | L139 |
| Murano | M016, M206, or M210 |
| Rogue Sport | S140 |
| Versa | D137 |

17. Select Home.

| ECU PART NUMBER | 28538XXXXX |
|-----------------|------------|
| OFTWARE # | XXXX |
| | |
| | |
| | |
| | |

Figure 5

18. Select **Re/programming, Configuration**.

| mer | Serial No. | Status | Diagnosis (One System) |
|-------|-------------------------|------------------------------------|-------------------------------|
| VI | 2300727 | Normal Mode/Wireless connection | Diagnosis (All Systems) |
| м | • | No connection | Re/programming, Configuration |
| 8 | Select VI/MI | | Immobilizer |
| sus : | ion Setting Sub mode | ABC Language Setting | Maintenance |
| - | | | |

Figure 6

- 19. Use the arrows (if needed) to view and read all precautions.
- 20. Check the box confirming the precautions have been read.

21. Select Next.

| racaution | | | - | | |
|--|--|---|------------------------|------------------------|------|
| Occurrent | | | | | |
| f the reprogramming/ | s: programming is u | unsuccessful, ECU se | oftware may be damag | ed and ECU is no lon | nger |
| Please review the all o | f precautions, ar | nd click the "Confirm | " check box after conf | irming the its points. | |
| A | | | | | |
| Precautions | timer or AIC re | mote control system | | | |
| , bo not set the Mt | unier of Poc le | anore control system | | | |
| During reprogrammi | - | | | | |
| During reprogrammi Never touch the CON | ng> SULT-III plus cor | mponents to prevent | cable disconnection. | | |
| Couring reprogrammi Never touch the CON Never depress the bra Never open each door | ng> SULT-III plus coi ke pedal or turn or trunk rid. | mponents to prevent In the steering wheel. | cable disconnection. | | |
| <during reprogrammi<br="">Never touch the CON Never depress the bra Never open each door</during> | ng> SULT-III plus coi ike pedal or turn or trunk rid. | mponents to prevent the steering wheel. | cable disconnection. | | |
| <during reprogrammi<br="">Never touch the CON Never depress the bra Never open each door</during> | ng> SULT-III plus cou ike pedal or turn or trunk rid. | mponents to prevent n the steering wheel. | cable disconnection. | | |
| <during reprogrammi<br="">Never touch the CON Never depress the bra Never open each door</during> | ng> SULT-III plus coi ike pedal or turn or trunk rid. | mponents to prevent 1 the steering wheel. | cable disconnection. | | |
| <during reprogrammi<br="">Never touch the CON Never depress the bra- Never open each door</during> | ng> SULT-III plus coi ke pedal or turn or trunk rid. | mponents to prevent n the steering wheel. | cable disconnection. | | |
| <during reprogrammi<br="">Never touch the CON Never depress the bra Never open each door</during> | ng> SULT-III plus coi ike pedal or turr or trunk rid. | mponents to prevent 1 the steering wheel. | cable disconnection. | J | |

Figure 7

22. Select Automatic Selection(VIN).



Figure 8

23. Confirm the **VIN or Chassis #** matches the vehicle's VIN.

24. Select **Confirm**.

| VIN or Chassis # | ***** | |
|------------------|---------|---|
| Model Year | xxxxxxx | - |
| | 1/1 | |
| | | |

Figure 9

25. Select Confirm.



Figure 10

26. Select **SONAR**.

| Configuration | System Selection | Operation Selection |
|---|---|-----------------------|
| System Selection | | |
| In case ECU you want to operate is not list | ed below, the vehicle or model year might t | be selected wrong. |
| | | |
| | | |
| | r | |
| ALL MODE AWD/4WD | CAN GATEWAY | Side radar (Rear righ |
| всм | AIR BAG | TELEMATICS |
| SONAR | AUTO BACK DOOR | HVAC |
| LANE CAMERA | Side radar (Rear left) | AVM |
| ADAPTIVE LIGHT | ICC/ADAS | CHASSIS CONTROL |
| | | - |

Figure 11

27. Select Reprogramming.

| Configuration | System Selection Operation Selection | |
|--|--|--|
| Operation Selection | | |
| Touch "Operation". In case over write current ECU, touch In case replacement of ECU, select an | "Reprogramming". operation in REPLACE ECU category. | |
| REPROGRAMMING | | |
| | In case you want to reprogramming ECU | touch "Reprogramming" |
| Reprogramming | In case you want to reprogramming ECU | , touch "Reprogramming". |
| Reprogramming | In case you want to reprogramming ECU | , touch "Reprogramming". |
| Reprogramming Replacement OF ECU Programming (Blank ECU) | In case you want to reprogramming ECU | , touch "Reprogramming". |
| Reprogramming Replacement OF ECU Programming (Blank ECU) Before ECU Replacement | In case you want to reprogramming ECU | touch "Reprogramming". Touch "Before ECU Replacement", Operation log with part number is save to CONSULT. |
| Reprogramming Replacement OF ECU Programming (Blank ECU) Before ECU Replacement VEHICLE CONFIGURATION | In case you want to reprogramming ECU | , touch "Reprogramming". Touch "Before ECU Replacement", Operation log with part number is save to CONSULT. |

Figure 12

- 28. When you get to the screen shown in Figure 13, confirm that a reprogram is available as follows.
 - a. Find the Sonar Control Unit **Part Number** and write it on the repair order.

HINT: This is the <u>current</u> part number (P/N).

| Configuration | Selection Save ECU Data | 7/7 |
|---|---|-----|
| ave ECU Data | | |
| Fouch "Save" to save operation log and the c Operation log helps to restart next operation b after operation has completely finished. | urrent part number as listed below to CONSULT. y selecting suitable operation log. Operation log is erased | |
| file Label | XXXXXXXXXXXXX | |
| Operation | REPROGRAMMING | |
| | | 1 |
| System | SONAR | |
| System Part Number Control Unit P/N | SONAR 28538XXXXX | |
| Part Number Control Unit P/N /ehicle | SONAR 28538XXXXX XXXXXXXXXXXX | - |
| Part Number Control Unit P/N /ehicle | SONAR 28538XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | |

Figure 13

- b. Compare the part number you wrote down to the part numbers in Table B.
 - o If there is a <u>match</u>, continue with the reprogramming procedure.
 - If there is <u>not a match</u> in **Table B**, this bulletin does not apply. See the ESM for further diagnostic information.

Table B

| MODEL | CURRENT SONAR CONTROL UNIT PART NUMBER: 28538- |
|-------------|--|
| Altima | 6CA2A, 6CA3A |
| Murano | 9UH1A, 9UF1B |
| Rogue Sport | 6MM0B |
| Versa | 5EA0A, 5EA1A |

- 29. Follow the on-screen instructions to navigate CONSULT and reprogram the SONAR.
- 30. Select Save.

| Configuration | Operation Salection Save ECU Data | 7/7 |
|--|--|-----|
| ive ECU Data | | |
| ouch "Save" to save operation log iperation log helps to restart next o fter operation has completely finish | and the current part number as insted below to CONSULT. operation by selecting suitable operation log. Operation log is erased ed. | |
| ile Label | ***** | |
| | REPROGRAMMING | |
| peration | | |
| ystem | SONAR | |
| iystem art Number | SONAR 28538XXXXX | |
| iystem 'art Number 'ehicle | SONAR 28538XXXXX XXXXXXXXXXX | |
| system System Part Number /ehicle | SONAR 28538XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | |

Figure 14

- 31. Read the precautions on the CONSULT screen, check the box for **Confirmed Instructions**, and then select **Next**. (Screens not shown.)
- 32. Select Next.

| ect Program Data | Condition | 9/10 |
|--|---|-----------|
| Confirm the detail listed below, and touch "N In case the screen to select reprod/programm | | |
| rehicle. In case the part number after reprogramming selection, VIN and reprog/programming data in | ext" if OK. ing data is NOT displayed, only one data is available for this is wrong, touch "Re-select", and confirm the vehicle CONSULT. | |
| Part Number After Repro/programming | 28538-XXXXX | |
| | | |
| Current Part Number | 28538-XXXXX | |
| /ehicle | 28538-XXXXX XXXXXXXXXXXX | |
| /ehicle | 28538-XXXXX XXXXXXXXXXXXXX XXXXXXXXXXXXXXX | |
| /ehicle //N. System | 28538-XXXXX XXXXXXXXXXXXXXXX XXXXXXXXXXXXXX | |
| /ehicle //IN System Dther Information | 28538-XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | Re-select |

Figure 15

HINT: If you get the screen below and it is blank (no reprogramming listed), it means there is no reprogramming available for this vehicle. Close CONSULT and refer back to the ESM for further diagnosis.

| Bach. Home Print Scre | en Screen Management Becord Capture Mode See | ed Rep TILSV VI MI | |
|--|--|--|-----------|
| elect Program Data | | Condition | 9/11 |
| ouch and select the reprogly 1 case no reproglprogrammin eproglprogramming data in C | programming data listed below. g data is listed below, confirm the s ONSULT, | vehicle selection, VIN and | |
| System | SONAR | | <u>()</u> |
| Current Part Number | Part Number After Repro/program | nming Other Information | |
| x000000-x00000X x000000-x00000X | x000000-x00000x | xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx | |
| _ | | 0/0 | Next |

Figure 16

33. Make sure **OK** is highlighted **green** (battery voltage must be between **12.0 and 15.5 Volts**).

NOTICE

To avoid damage to the control unit, ensure a battery maintainer or smart charger is connected. The battery voltage must be between <u>12.0V and 15.5V</u> during reprogramming.

34. Select Next.

| Operate according to the following procedures. 1 Remove the terminal caps of battery, and connect battery charger to bat | Monitor batte voltage here |
|--|-------------------------------|
| 1 Remove the terminal caps of battery, and connect battery charger to bat | tery. |
| | |
| | |
| 2 | |
| Adjust the battery charger output so that the vehicle battery voltage is b 13.5V. The vehicle battery voltage is shown on the top-right of this scree | petween 12.0V and en |
| | |
| Gonfirm the RESULT is OK, touch "Next". | |
| 3 Confirm the RESULT is OK, touch "Next". | |

Figure 17

35. Confirm all **Judgment** items are "OK", and then select **Start**.

| confirm that judgment for a | listed below, se | t the vehicle cor | idition correctly. | | Monitor battery |
|-----------------------------|------------------------------------|--------------------------|-------------------------|--------------|-----------------|
| ange, reprogramming or pr | Il items indicate ogramming may | OK, and touch " stop. | Start". In case the veh | icle conditi | voltage here |
| Montor tem | Value | Unit | Audgment | Condition | |
| BATTERY VOLTAGE | 14,4 | v | OK | | |
| | | | | | |

Figure 18

36. Wait for both progress bars to complete.



Figure 19

- When the screen in Figure 20 displays, the reprogramming is complete.
- If the screen in Figure 20 does not display (indicating that reprogramming did not complete), refer to **Sonar Control Unit Recovery** on the next page.
- 37. Disconnect the battery maintainer or smart charger from the vehicle.
- 38. Select Next.



Figure 20

HINT: Additional steps/operations are required before CONSULT will provide the final reprogramming confirmation report. Continue with the reprogramming procedure on page 16.

Do not disconnect the VI or shut down CONSULT if reprogramming does not complete.

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

- Check battery voltage (12.0 15.5 V).
- Ignition is ON, engine 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</u> <u>attempt and can be selected more</u> <u>than once</u>.

| Anna HitiGorer | Mercanina Contine General | V M Taria |
|---|--|-----------|
| Confirm Result | Certim Based | 13/13 |
| Confirm Result | | |
| E. | | |
| reprogramming or programming is not com operation on this ECU. Touch "Reny" to retry reprogramming or pro | bieled progently, but you can retry reprogrammi gramming. | * |
| Part number after Reproprogramming | in and the set | |
| Parl number before Reprog/programming | | |
| Vehicle | EXAMPLE | T |
| VIN | | |
| System | | |
| Dete | | Retry |
| Error Gode | | |
| Comment | | Print |

Figure 21

If reprogramming does <u>not</u> complete and the "X" icon displays, as shown in Figure 22:

- Check battery voltage (12.0 15.5 V).
- CONSULT A/C adapter is plugged in.
- Ignition is ON, engine OFF.
- Transmission is in Park.
- All CONSULT 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 | Wr. | VIN | Yehide ; QASHQAI | County Haten |
|---|---|--|--|--------------|
| * | Phit Some | Science Alemas areasers | Negaridad Hills Cark | 💭 💥 🖿 🛄 🔀 |
| Relprograming | | | Confine Result | 9/9 |
| Confirm Rosult | | | | |
| Reprogramming as no -Print this screen as n with procedure. -Restain CONSULT w | d completed pro seeded. Confirm ith disconrection | eperty CONSULT version, IG Ig VI once, and start the | N/Power switch position, shift posi reprogramming again | isin ard etc |
| Part number after Reprog/programming | é. | | | |
| Current part number | | | | |
| Vehicle | | EX | AMPLE | |
| VIN | | | | |
| System | | | | |
| Dens | | | | |
| information | | | | [|
| Errer Code | | | | Print |
| | | | | |

Figure 22

39. Perform **Erase All DTCs** as follows:

- a. Turn the ignition OFF.
- b. Turn the ignition ON.

| Backy Herne | Print Screen | Screen Capture | Recorded Data | () Help | 13.6V VI | × I | • |
|----------------------|---------------------------------------|---------------------------------|------------------|-------------------|-----------------------------|-----------------------|-------|
| Configurati | ing, on | Confirmation Start up Engine | Erase | All DTCs | Print Resu Operation Con | lt <i>l</i> nplete | 17/18 |
| Erase All DTCs | | | | | | | |
| According to the in: | struction below, itch to the ON po | erase All DTCs. | e automatically | erased. | (| OFF | N CON |
| SW | ritch T | urn ignitie | on OFF | - > ON | | | |
| | | F | -igure 2 | 23 | | | |

HINT: When the entire reprogramming process is complete, the screen in Figure 24 on page 17 will display.

40. Verify the before and after part numbers are the same.

HINT: For this reprogram, the before and after reprogramming part numbers should be the same. This is not an error.

41. Print a copy of the screen below (Figure 24) and attach it to the repair order for warranty documentation.

HINT: If you cannot print the screen:

- a. Select Screen Capture.
- b. Name the file.
- c. Save the file in My Documents.
 - A copy of the screen is now saved in the CONSULT PC. It can be retrieved and printed at a later time.

42. Select Confirm.



Figure 24

43. Select Home (screen not shown).

Sonar Control Unit Configuration

44. Select Re/programming, Configuration.

| Serial No. Status | |
|---|---------------------|
| Diagnosis (O | ne System) |
| VI 2300727 Normal Mode/Wireless | Il Sustamo) |
| | ii Systems) |
| | |
| No connection So Re/programm | ning, Configuration |
| Select VI/MI | |
| Immobilizer | |
| plication Setting | 1 |
| Sub mode ABC Language Setting Maintenance | |
| | |
| 0 | |

Figure 25

HINT: CONSULT screens for steps 45-48 are not shown.

- 45. Read the precautions on the CONSULT screen, check the box for **Confirmed Instructions**, then select **Next**.
- 46. Select Automatic Selection(VIN).
- 47. Select **Confirm**.
- 48. Select Confirm again.

49. Select SONAR.

| Configuration | System Selection | Operation Selection |
|---|--|-----------------------|
| System selection | | |
| In case ECU you want to operate is not list | ted below, the vehicle or model year might t | be selected wrong. |
| | | |
| | | |
| | CAN GATEWAY | Side radar (Rear ridb |
| | GANGATEMAT | |
| ВСМ | AIR BAG | TELEMATICS |
| SONAR | AUTO BACK DOOR | HVAC |
| LANE CAMERA | Side radar (Rear left) | AVM |
| ADAPTIVE LIGHT | ICC/ADAS | CHASSIS CONTROL |
| | | |

Figure 26

50. Select After ECU Replacement under VEHICLE CONFIGURATION.



Figure 27

51. Select Manual selection.

| Writing method selection | |
|---|---|
| Select an operation from the fe Touch "EPC linked" or "Manua | ollowing list selection". |
| | |
| | |
| | Touch "EPC linked" to select automatic selection for writing data using the file generated in EPC. |
| EPC linked | |
| L | 1 |
| | |
| <u></u> | Touch "Manual selection" to select writing data manually. |
| Manual selection | |

Figure 28

- 52. Select the applicable **Type ID**.
 - Refer to the EPC to determine the applicable **Type ID**.
- 53. Select Next.

| | selection Configuration | rite Configuration 8/10 |
|-------------------------------------|--|-------------------------|
| Il Configuration | | |
| ect the Type ID listed in EPC (Serv | vice parts catalog) from the following table, and then | touch "Next". |
| | | C V |
| | | |
| | | |
| SONAR | | |
| | Туре ID | |
| | | |
| | 28547 - XXXXX | |
| | 28547 - XXXXX 28547 - XXXXX | |
| | 28547 - XXXXX 28547 - XXXXX 28547 - XXXXX | |
| | 28547 - XXXXX 28547 - XXXXX 28547 - XXXXX | |
| | 28547 - XXXXX 28547 - XXXXX 28547 - XXXXX 28547 - XXXXX 28547 - XXXXX | Cancel |
| | 28547 - XXXXX 28547 - XXXXX 28547 - XXXXX 28547 - XXXXX 28547 - XXXXX 28547 - XXXXX | Cancel |

Figure 29

54. Confirm that the correct **Type ID** is displayed, and then select **OK**.

| Re/programming, Configuration | Manual Configuration | iguration Print Result / Operation Complete | 9/10 |
|---|--|--|------|
| onfiguration | | | |
| ing setting value for each item a n setting value for each items, if (| re saved to vehicle ECU. OK, touch "OK" to save them to v | ehicle ECU. | |
| SONAR | 1 | | |
| | Type ID | | - |
| | 28547 - XXXXX | | |
| | | | OK |

Figure 30

55. Select End.

| Home Print Screen | Creen Missurement Mode Print Result / Print Result / |
|--|---|
| Configuration | Write Configuration Operation Complete 10/10 |
| Result / Operation Complete | |
| te Configuration has been succes ich "End" to finish operation, and i | Is fully completed. to back to Home Screen. Confirm each function works correctly. |
| SONAR | |
| | Type ID |
| | 28547 - XXXXX |
| | |
| | Print |
| | Other |
| | Operation |
| | End |
| | |
| | |

Figure 31

56. Select Home (screen not shown).

57. Select Diagnosis (One System).

| | Serial No. | Status | Diagnosis (One System) |
|---------|-------------------------|------------------------------------|-------------------------------|
| VI | 2300727 | Normal Mode/Wireless connection | Diagnosis (All Systems) |
| MI | • | No connection | Re/programming, Configuration |
| 8 | Select VI/MI | | Immobilizer |
| oplicat | ion Setting Sub mode | ABC Language Setting | Maintenance |

Figure 32

58. Select SONAR.

| NISSAN/INFINITI/DATSUN | | | |
|------------------------|--------------------|------------------------|----------------------|
| Priority | All system | ns 🔻 | |
| 4WAS(MAIN)/RAS/HICAS | EV/HEV | HV BATTERY | ANC |
| SONAR | POP UP HOOD | TOTAL ILLUM C/U | MULTI DISPLAY |
| LANE CAMERA | AUTO BACK DOOR | OCCUPANT DETECTION | Side radar (Rear rig |
| ADAPTIVE LIGHT | Diag Data Recorder | SmFOB | ADCM |
| AUTO SLIDE DOOR RIGHT | 4WAS(FRONT) | BRAKE | PTC HEATER |
| CAN GATEWAY | E-SUS | Side radar (Rear left) | CHARGER/PD MOD |
| SHIFT | ACCELE PEDAL ACT | VSP | TELEMATICS |

Figure 33

59. Select ERASE.

| Back Home Print Screen Screen Mode Rec | oorded hata | ERT 12.1 | | - |
|--|----------------|----------|-----------------------|-------|
| Diagnosis (One System) System Selection SONAR | | | | |
| Result | Active Te | est d | ECU Identification | |
| B2724-55 SONAR CONTROL UNIT | PAST | | DTC Explanation | |
| B2725-14 REAR BUZZER | PAST | | DTC Explanation | |
| | | | | Print |
| | | | | Save |
| | | 1/1 | 4 1 | ERASE |

Figure 34

- 60. Select ECU Identification.
- 61. Confirm the SOFTWARE # (Figure 35).
 - If the **SOFTWARE #** is in **Table A** on page 5, proceed to step 62.
 - If the SOFTWARE # is not Table A on page 5, reprogramming did not successfully complete. Go back to step 18 on page 6 and perform the procedure again.



Figure 35

62. Select Home.



63. Select Diagnosis (All Systems).

| | Serial No. | Status | Diagnosis (One System) |
|--------|--------------|------------------------------------|-------------------------------|
| n | 2300727 | Normal Mode/Wireless connection | Diagnosis (All Systems) |
| II | | No connection | Re/programming, Configuration |
| 9 | Select VI/MI | | Immobilizer |
| olicat | Sub mode | ABC Language Setting | Maintenance |

Figure 37

HINT: CONSULT screens for steps 64-66 are not shown.

- 64. Select Automatic Selection(VIN).
- 65. Select **Confirm**.
- 66. Select Confirm again.
- 67. Turn the ignition OFF, and then turn the ignition ON.
- 68. Confirm DTC C1B56-04 is displayed as **PAST** (not **CRNT**) (Figure 38).
- 69. Select **ERASE**.

| Back Mome | Print Screen | Screen Capture Model Lata Vabiala Confirm Vabiala Diagnosis (All |
|------------|--------------|--|
| Systems) | Selec | Systems) |
| AII DTC | CAN Diag | SUPPORT MNTR |
| esult | | Detailed Information |
| ICC/ADAS 2 | PAST | CORES OF SONAR CIRCUIT ISYSTEM |
| ENGINE | NO DTC | C 1806-04 INTERNAL MALFÚNCTNJ PAST PPD Expla |
| ABS | NO DTC | |
| METER/M&A | NO DTC | |
| ВСМ | NO DTC | Print |
| AIR BAG | NO DTC | Print |
| ICC/ADAS | NO DTC | Save |
| 1/4 | | 1/1 FRASE |

Figure 38

- 70. Close CONSULT.
- 71. Turn the ignition OFF.
- 72. Disconnect the VI from the vehicle.
- 73. Start the engine.
- 74. Check that the RAB system setting can be enabled/disabled on the combination meter.
- 75. Test drive the vehicle and make sure it operates correctly and the MIL is OFF.
 - If the MIL comes ON, go back to the ESM for further diagnostic information.
 - Diagnosis and repairs beyond SONAR reprogramming are not covered by this bulletin.

CLAIMS INFORMATION

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

| DESCRIPTION | PFP | OP CODE | SYM | DIA | FRT |
|--------------------------|-----|---------|-----|-----|-----|
| Reprogram Sonar Software | (1) | RXA7AA | ZE | 32 | 0.8 |

(1) Reference the electronic parts catalog and use the Sonar Control Unit (28532-****) as the Primary Failed Part (PFP).

AMENDMENT HISTORY

| PUBLISHED DATE | REFERENCE | DESCRIPTION |
|------------------|------------|--|
| May 19, 2022 | NTB22-038 | Original bulletin published |
| January 24, 2023 | NTB22-038A | Table A revised, and login information moved to page 3 |
| June 20, 2023 | NTB22-038B | Pages 1-2 and Table A revised |