# Service Alert

#### Mazda North American Operations Irvine, CA 92618-2922



Subject:

MAZDA CONNECT SYMPTOM TROUBLESHOOTING (7TH GENERATION VEHICLES)

Service Alert No.: SA-004/22

Last Issued: 05/12/2022

#### **BULLETIN NOTES**

This service alert supersedes the previously issued service alert listed below. The changes are noted in Red text.

| Previous Service Alert: | Date(s) Issued:  |
|-------------------------|--|
| SA-004/22               | 04/04/22 and 02/01/22  |
| SA-027/21               | 12/21/21, 09/28/21, 06/24/21 and 04/07/21  |
| SA-027/20               | 10/16/20, 09/22/20, 09/11/20, 07/16/20, 06/23/20, 04/08/2 0, 03/19/2020 and 02/11/20 |
| SA-042/19               | 12/12/19 and 09/25/19  |

# APPLICABLE MODEL(S)/VINS

| 2019-2022 Mazda3 | 2021-2022 CX-5 | 2022 MX-30 |
|------------------|----------------|------------|
| 2020-2022 CX-30  | 2021-2022 CX-9 | 2023 CX-50 |

#### **DESCRIPTION**

Customers having MAZDA CONNECT concerns should have their vehicle repaired using the following repair procedure.

#### **REPAIR PROCEDURE**

# **NOTE:** Before proceeding:

- Document the vehicle's current MAZDA CONNECT CMU software version.
- Confirm that the Connectivity Master Unit (CMU) is updated to the latest software version.
  - Go to MGSS -> Infotainment -> MAZDA CONNECT Updates
  - Go to TSB 16-001/20 to view MAZDA CONNECT CMU software fix list.
- Confirm that the customer's device is compatible. Go to connect.mazda.com -> Support -> Compatibility.
- Confirm that the customer's device is updated to the latest software version.
- If CMU log data collection is necessary, collect the data and continue troubleshooting using this document. If no failure is found, release the vehicle to the customer and inform them that the infotainment system data is being analyzed. Hotline will contact you at a later date with the results.
- Apple Carplay/Android Auto FAQ, go to SA-001/19.
- If you suspect a counterfeit Navi SD card, ask the customer for proof of purchase. It cannot be determined by visually looking at the label. If Mazda Toolbox is used and a counterfeit SD card is detected, the customer VIN may be locked-out.

Page 1 of 23

| Service Alert No.: SA-004/22  | Last Issued : 05/12/2022                           |
|---|--|
|   |  |
| If possible, complete any one of the Microsoft Forms Qu<br>CONNECT Questionnaire. | uestionnaires. Go to MGSS -> Infotainment -> MAZDA |
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|   |  |

Page 2 of 23

# Index:

- No. 1 Blank Screen
- No. 2. Rear View Camera is not displayed
- No. 3 Rebooting
- No. 4 Infotainment System Has No Sound
- No. 5 Commander Switch Does Not Work
- No. 6 Bluetooth device will not pair

Service Alert No.: SA-004/22

- No. 7 Incorrect GPS position
- No. 8 Voice Recognition Does Not Work
- No. 9 Cannot Make a Hands-Free Call
- No. 10 Cannot Play Bluetooth Audio
- No. 11 Navigation address not found
- No 12 How to Check VIN
- No. 13 How to update the Navigation SD Card Map
- No. 14 How to Check Navi SD Card VIN Lock

Page 3 of 23

#### Service Alert No.: SA-004/22

#### No. 1 Blank Screen

| Step | Inspection   |     | Action   |
|------|--|-----|--|
|      | 1 Is the Rear View Camera displayed?   |     | Go to step 2.  |
| 1    |  |     | Refer to No. 2. Rear View Camera is not displayed.   |
|      | Press and hold the Power Button. Is the screen   | Yes | Normal Operation.  |
|      | displayed correctly?  Mazda3, CX-30, MX-30  CX-5, CX-9   |     |  |
| 2    |  | No  | Go to step 3.  |
|      | Press the "HOME" button. Is the HOME screen  | Yes | Normal Operation.  |
|      | displayed correctly?   | No  | Go to step 4.  |
|      | Using M-MDS, are any infotainment system DTC's   | Yes | Go to MGSS for DTC diagnosis.  |
| 4    | stored?  | No  | 2019-2020 vehicles - Go to step 7.<br>2021-2022 vehicles - Go to step 5.   |
|      | Retrieve 6 digit CMU Serial Number. Go to "CMU Serial Number Retrieval".  Is the CMU Serial Number within the affected range? See "Affected CMU Serial Number Range and Part Number Suffix" table. |     | Replace the affected CMU and confirm the CMU replacement part software is at the latest version (see MGSS -> Infotainment/TCU -> MAZDA CONNECT Updates).   |
| 5    |  |     | 2021-2022 CX-5 and CX-9 - Update CMU software version to 7000C0A-NA03_11038 or later, then go to step 6. 2021-2022 Mazda3, CX-30 and MX-30 - Retrieve CMU log data and contact Hotline for additional support. |
|      | 2021-2022 CX-5 and CX-9 - Did CMU software   | Yes | Repair complete.   |
| 6    | version 7000C0A-NA03_11038 or later correct customer concern?  |     | Retrieve CMU log data and contact<br>Hotline for additional support.   |
|      | 7 2021-Current CX-5 - Inspect connector C-16 for corrosion due to liquid spill. Is corrosion found at C-16? Other models - Go to next step.  |     | Repair as necessary.   |
| 7    |  |     | Go to next step.   |
| 8    | la thora a dovice connected to the USB next?   |     | Go to step 9.  |
| o    | Is there a device connected to the USB port?   | No  | Go to step 10.   |
| 9    | Disconnect the USB device. Does the display function   | Yes | USB device is not compatible.  |

Page 4 of 23

|    | properly after USB device is disconnected?                                     | No  | Go to step 10.  |
|----|--|-----|---|
| 10 | s the connector for the Center Display inserted                                |     | Go to step 11.  |
| 10 | correctly?   | No  | Insert the connector correctly.   |
| 11 | And the comment of the COMIL invested comment of                               |     | Go to step 12.  |
| 11 | Are the connectors for the CMU inserted correctly?                             | No  | Insert the connectors correctly.  |
| 12 | Is the CMU voltage out (PWR CTRL OUT) at 0920-                                 | Yes | Go to step 13.  |
| 12 | 101A Terminal 1S, SB wire, of the CMU normal?                                  | No  | Go to step 14.  |
| 12 | Swap the Center Display with good known vehicle. Is the screen display normal? |     | Check / Replace the Center Display.   |
| 13 |  |     | Go to step 14.  |
| 14 | Swan the CMI I with good known vehicle. Is the                                 |     | Retrieve CMU log data if possible before replacing the CMU.     Document date and time of the condition.                              |
|    |  |     | Repair / Replace wiring harness. Go<br>to MGSS View Content -> Wiring<br>Diagram -> Body and Accessories -<br>> Entertainment System. |

Page **5** of **23** 

Service Alert No.: SA-004/22

# No. 2 Rear View Camera is not displayed

| Step     | Inspection  | Result | Action  |
|----------|---|--------|---|
| 1        | Using M-MDS, are any infotainment system DTC's stored?              | Yes    | Go to MGSS for DTC diagnosis.   |
| I        |   | No     | Go to step 2.   |
| 2        | Is the vehicle equipped with 360                                    | Yes    | Go to step 3.   |
|          | View Monitor?   | No     | Go to step 4.   |
| 3        | Is the Front Camera and Side  | Yes    | Check / Replace the 360 View Monitor control unit.  |
| <u> </u> | Cameras displayed normally?   | No     | Go to step 4.   |
| 4        | Are images other than the Rear                                      | Yes    | Go to step 5.   |
| 4        | View Camera displayed?  | No     | Go to No. 1 Blank Screen.   |
|          | Go to No 12 How to Check VIN  | Yes    | Go to step 6.   |
| 5        | Does the VIN match to customer vehicle VIN?                         | No     | Swap CMU(s) to correct vehicle(s) or replace CMU.   |
| 6        | Is the connector for the Rear View<br>Camera Inserted correctly?    | Yes    | Go to step 7.   |
|          |   | No     | Insert the connector correctly.   |
| 7        | Is the connector for the Center<br>Display Inserted correctly.      | Yes    | Go to step 8.   |
|          |   | No     | Insert the connector correctly.   |
| 8        | e the connectors for the CMU  | Yes    | Go to step 9.   |
| 0        | Inserted correctly.   | No     | Insert the connectors correctly.  |
| 9        | Swap the Rear View Camera with good known vehicle. Is the screen    | Yes    | Check / Replace the Rear View Camera<br>See TSB 09-021/19.  |
|          | display normal?   | No     | Go to Step 10.  |
| 10       | Swap the CMU with good known vehicle. Is the screen display normal? | Yes    | Check / Replace the CMU.  Retrieve CMU log data if possible before replacing the CMU.  Document date and time of the condition. |
|          |   | No     | Repair / Replace wiring harness. Go to MGSS View Content -> Wiring Diagram -> Body and Accessories -> Entertainment System.     |

Page 6 of 23

# No. 3 Rebooting

| Step | Inspection   | Result | Action   |
|------|--|--------|--|
|      | Is the customers device a Doro 7050, 7060 phone that is connected by bluetooth?  | Yes    | Update CMU software version to 7000C0A-<br>NA01_11006 or later.  |
| 1    | 000000000000000000000000000000000000000  | No     | Go to next step.   |
| 2    | Using M-MDS, are any infotainment  | Yes    | Go to MGSS for DTC diagnosis.  |
|      | system DTC's stored?   | No     | Go to step 3.  |
| 3    | Does the reboot continue after removing  | Yes    | 2019-2020 vehicles - Go to step 6.<br>2021-2022 vehicles - Go to step 4.   |
| 3    | the Navigation SD card?  | No     | Check / Replace the Navigation SD card.<br>Go to SA-014/21 if applicable.  |
|      | Retrieve 6 digit CMU Serial Number. Go to "CMU Serial Number Retrieval".   | Yes    | Replace the affected CMU and confirm the CMU replacement part software is at the latest version (see MGSS -> Infotainment/TCU -> MAZDA CONNECT Updates).   |
| 4    | Is the CMU Serial Number within the affected range? See "Affected CMU Serial Number Range and Part Number Suffix" table. | No     | 2021-2022 CX-5 and CX-9 - Update CMU software version to 7000C0A-NA03_11038 or later, then go to step 5. 2021-2022 Mazda3, CX-30 and MX-30 - Retrieve CMU log data and contact Hotline for additional support. |
|      | 2021-2022 CX-5 and CX-9 - Did CMU  | Yes    | Repair Complete.   |
| 5    | software version 7000C0A-NA03_11038 or later correct customer concern?   | No     | Retrieve CMU log data and contact Hotline for additional support.  |
| 6    | Is there a device connected to the USB   | Yes    | Go to step 7.  |
| 6    | port?  | No     | Go to step 8.  |
|      | Disconnect the USB device. Does the  | Yes    | USB device is not compatible.  |
| /    | reboot stop after USB device is disconnected?  | No     | Go to step 8.  |
| 8    | Does the reboot continue after ignition  | Yes    | Go to step 9.  |
|      | key OFF then back ON?  | No     | Check / Replace the CMU.   |

Page **7** of **23** 

| Service Alert No.: SA-004/22 | Last Issued : 05/12/2022 |
|------------------------------|--------------------------|
|------------------------------|--------------------------|

|     |  |     | Retrieve CMU log data if possible before replacing the CMU.     Document date and time of the condition.                        |
|-----|--|-----|---|
| 119 | Does the reboot continue after vehicle battery disconnect? | Yes | Check / Replace the CMU.  Retrieve CMU log data if possible before replacing the CMU.  Document date and time of the condition. |
|     |  | No  | No repair needed.   |

Page **8** of **23** 

Service Alert No.: SA-004/22

# No. 4 Infotainment System Has No Sound

| Step | Inspection   | Result | Action  |
|------|--|--------|---|
|      |  | Yes    | <ul> <li>DTC U3000:49 stored, Mazda3, CX-30 built after 7/1/2021 - Update CMU to CMU_7000C0A-NA06_12012 or later.</li> <li>DTC U3000:49 stored, MX-30 - Update CMU to CMU_7000C0A-NA02_11036 or later.</li> <li>Except DTC U3000:49 - Go to MGSS for DTC diagnosis.</li> </ul>  |
| 1    | Using M-MDS, are any infotainment system DTC's stored?   | No     | <ul> <li>2021-2022 CX-5 and CX-9 - Update CMU software version to 7000C0A-NA03_11038 or later, then go to step 2.</li> <li>2021-2022 Mazda3 and CX-30 built after July 1, 2021 - Update CMU software version to 7000C0A-NA06_12012 or later, then go to step 2.</li> <li>2022 MX-30 - Update CMU software version to 7000C0A-NA02_11036 or later, then go to step 2.</li> <li>Except vehicles listed above - Go to step 3.</li> </ul> |
|      |  | Yes    | Repair Complete.  |
| 2    | <ul> <li>2021-2022 CX-5 and CX-9</li> <li>2021-2022 Mazda3 and CX-30</li> <li>2022 MX-30</li> <li>Did CMU software correct customer</li> </ul> | No     | Go to step 3.   |
|      | concern?   | Yes    | Go to step 4.   |
| 3    | Is sound normal other than navigation guidance?  | No     | Go to step 4.   |
|      | Can you hear the voice after raising   | Yes    | Normal Operation.   |
| 4    | the navigation volume?   | No     | Go to step 6.   |
| 5    |  | Yes    | Normal Operation.   |
| 5    | audio mode?  | No     | Go to step 7.   |
|      |  | Yes    | Repair complete.  |
| 6    | Replace the Navigation SD Card.<br>Can you hear voice after Navigation<br>SD Card replacement?   | No     | Retrieve CMU log data if possible before replacing the CMU.     Document date and time of the condition.  |

Page **9** of **23** 

| 7   | Can you hear sound after raising the   | Yes  | Normal Operation.  |
|-----|--|------|--|
|     | volume of audio?   | No   | Go to step 8.  |
| 8   | << Source: USB/iPod >> Are there any problems with the media and the music files? << Source: Radio >> Are there any problems with the antenna and the reception? << Source: Bluetooth Audio >> Are there any problems with | Yes  | << Source: USB/iPod >> Check the media and the compatible files. << Source: Radio >> Check the antenna, the reception, and the Remote Tuner side. << Source: Bluetooth Audio >> Check the Bluetooth connection and the Bluetooth device.   |
|     | Bluetooth?   | No   | Go to step 9.  |
| 9   | Go to MGSS "DIAGNOSTIC ASSIST FUNCTION [CONNECTIVITY MASTER UNIT (US)]" and perform Functional Inspection/ Adjustment -> Active Speaker Check Function -> Speaker Inspection. Did the Speaker Inspection Pass?             | Pass | Retrieve CMU log data if possible before replacing the CMU.     Document date and time of the condition.  Go to step 10.   |
|     |  | Yes  | Go to step 10.   |
| 10  | Is the connector for the Speaker(s) that failed inserted correctly?  | No   | Insert the connector correctly.  |
|     | -  | Yes  | Go to step 12.   |
| 11  | Is the connector for the amplifier inserted correctly?   | No   | Insert the connector correctly.  |
|     | Are the CMU connectors inserted  | Yes  | Go to step 13.   |
| 12  | correctly?   | No   | Insert the connectors correctly.   |
|     | Swap speakers from good known  | Yes  | Check / Replace the speakers.  |
| 13  | vehicle. Can you hear sound?   | No   | Go to step 14.   |
| 4.4 | Swap the Amplifier from known good   | Yes  | Check / Replace the Amplifier.   |
| 14  | vehicle. Can you hear sound?   | No   | Go to step 15.   |
| 15  | Swap the Remote Tuner from known<br>good vehicle. Can you hear sound?  | Yes  | Check / Replace the Remote Tuner Review the following for possible cause of Remote Tuner failure.  • CX-30 - Review SA-035/21 and 09-020/21.  • Mazda3 - Review 09-020/21.  • CX-5 and CX-9 - Inspect Remote Tuner for external water corrosion. Contact the Mazda National Technical Hotline before attempting any repairs. |
|     |  | No   | Go to step 16.   |
| 16  | Swap the CMU from known good vehicle. Can you hear sound?  | Yes  | Check / Replace the CMU.  Retrieve CMU log data if possible before replacing the CMU.  |

Page 10 of 23

| Service Alert No.: SA-004/22 | Last Issued : 05/12/2022 |
|------------------------------|--------------------------|
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|  |    | Document date and time of the condition.  |
|--|----|---|
|  | No | Repair/Replace wiring harness. Go to MGSS View Content -> Wiring Diagram -> Body and Accessories -> Entertainment System. |

# No. 5 Commander Switch Does Not Work

| Step | Inspection   | Result  | Action  |
|------|--|---|---|
| 1    | Using M-MDS, are any infotainment system   | Yes   | Go to MGSS for DTC diagnosis.   |
| I    | DTC's stored?  | No  | Go to step 2.   |
| 2    | Does the Commander Switch work   | Yes   | Go to step 3.   |
|      | correctly?   | Yes No Yes No Yes No Yes No Pass Fail Yes No Yes  | Go to step 4.   |
|      | Does the Steering Wheel Switch work  | Yes   | Normal Operation.   |
| ,    | correctly?   | No  | Go to step 5.   |
| 4    | Is fuse F13 missing?   | Yes   | Go to SA-025/19.  |
| 4    | is luse F13 illissing!   | Yes   No   Yes   No   Yes   No   Yes   No   Pass   Fail   Yes   No   Pass   No   Pass   Pass   Pass | Go to step 8.   |
|      | Go to MGSS "DIAGNOSTIC ASSIST  | Pass  | Go to step 6.   |
|      | FUNCTION [CONNECTIVITY MASTER UNIT (US)]" Perform Functional Inspection/Adjustment - > Steering SW Inspection -> Did the Steering SW Inspection Pass?  | Fail  | Go to MGSS STEERING SWITCH<br>INSPECTION.   |
| 6    | Is the connector for the CMU inserted  | Yes   | Go to step 7.   |
| О    | correctly?   | Yes (   | Insert the connector correctly.   |
| 7    | Swap the CMU from known good vehicle. Does the Steering Wheel Switch work correctly?   | Yes   | <ul> <li>Check / Replace the CMU.</li> <li>Retrieve CMU log data if possible before replacing the CMU.</li> <li>Document date and time of the condition.</li> </ul> |
|      |  | No  | Repair/Replace wiring harness. Go to MGSS<br>View Content -> Wiring Diagram -> Body and<br>Accessories -> Entertainment System.                                     |
| 8    | Go to MGSS "DIAGNOSTIC ASSIST FUNCTION [CONNECTIVITY MASTER UNIT (US)]" Perform Functional Inspection/Adjustment - > Touch Pad/Commander Inspection - > Commander switch inspection. Did the Commander switch inspection Pass? | Pass<br>Fail  | Check / Replace the CMU.  Retrieve CMU log data if possible before replacing the CMU.  Document date and time of the condition.  Go to step 9.                      |

Page 11 of 23

| 9  | Is the connector for the Commander Switch                                       | Yes | Go to step 10.  |
|----|---|-----|---|
|    | inserted correctly?   |     | Insert the connector correctly.   |
| 10 | Are the CMU connectors inserted   |     | Go to step 11.  |
| 10 | correctly?  | No  | Insert the connectors correctly.  |
|    | Swap the Commander Switch with good   | Yes | Check / Replace the Commander Switch.   |
| 11 | known vehicle. Does the Commander Switch work correctly?                        | No  | Go to step 12.  |
| 12 | Swap the CMU from known good vehicle. Does the Commander Switch work correctly? | Yes | Check / Replace the CMU.  Retrieve CMU log data if possible before replacing the CMU.  Document date and time of the condition. |
|    |   | No  | Repair/Replace wiring harness. Go to MGSS<br>View Content -> Wiring Diagram -> Body and<br>Accessories -> Entertainment System. |

Page 12 of 23

Service Alert No.: SA-004/22

# No. 6 Bluetooth device will not pair

| Step   | Inspection  | Result | Action  |
|--------|---|--------|---|
| 1      | Using M-MDS, are any infotainment                               | Yes    | Go to MGSS for DTC diagnosis.   |
|        | system DTC's stored?  | No     | Go to step 2.   |
| 2      | Is Bluetooth enabled on the customers                           | Yes    | Go to step 3.   |
|        | device?   | No     | Enable Bluetooth on the customers device.   |
|        | Is the customers device paired to the                           | Yes    | Go to step 4.   |
| ٠<br>- | vehicle?  | No     | Pair the customers device to the vehicle.   |
|        | Is the customers device selected in                             | Yes    | Go to step 5.   |
| 4      | MAZDA CONNECT settings?   | No     | Select the customers device from Bluetooth settings.  |
|        | Delete the device from MAZDA CONNECT                            | Yes    | Normal Operation.   |
| 5      | and then re-pair it. Does Bluetooth work correctly?             | No     | Go to step 6.   |
|        | Go to connect.mazda.com -> Support ->                           | Yes    | Go to step 7.   |
| 6      | Compatibility. Is the customers device compatible?              | No     | The customers device is not compatible.   |
|        |   | Yes    | Go to step 8.   |
| 7      | Does the same symptom occur on another same model/year vehicle? | No     | <ul> <li>Check / Replace the CMU.</li> <li>Document device model, software version and occurrence of the condition.</li> <li>Retrieve CMU log data if possible before replacing the CMU.</li> <li>Document date and time of the condition.</li> </ul> |
|        |   | Yes    | Vehicle operation is normal.  |
| 8      | Reboot the customers device. Does Bluetooth work correctly?     | No     | Check / Replace the CMU.  Document device model, software version and occurrence of the condition.  Retrieve CMU log data if possible before replacing the CMU.  Document date and time of the condition.   |

Page 13 of 23

# No. 7 Incorrect GPS position

Service Alert No.: SA-004/22

| Step | Inspection   | Result | Action  |
|------|--|--------|---|
|      | Go to MAZDA CONNECT -> Navi menu, Travel   | Yes    | Normal Operation.   |
| 1    | Information -> Where Am I? -> Settings -> GPS information -> Check Available Satellites. or Go to MGSS "DIAGNOSTIC ASSIST FUNCTION [CONNECTIVITY MASTER UNIT (US)]" and perform Functional Inspection/Adjustment -> Navi System Inspection -> Check GPS Received Level.  Does the Navi system show correct vehicle position? | No     | Go to step 2.   |
|      | Using M-MDS, are any of the following DTC's stored?  | Yes    | Go to step 4.   |
| 2    | - B119F:13, GPS antenna signal circuit malfunction (short to power or open circuit) - B119F:2B, GPS antenna signal circuit malfunction (short to ground)   | No     | Go to step 3.   |
|      |  | Yes    | Go to step 9.   |
| 3    | Is the wheel and tire size correct according to the tire label?  | No     | Swap wheels/tires with correct size. If issue is fixed, inform the customer.  |
| 4    | Le the CDC entering connector conjugat manual 2  | Yes    | Go to step 5.   |
| 4    | Is the GPS antenna connector secured properly?   | No     | Insert the connector correctly.   |
| 5    | Is the GPS wiring harness open or shorted?   |        | Repair / Replace GPS wiring harness.  |
|      |  | No     | Go to TSB 09-021/20.  |
| 6    | Did TSB 09-021/20 resolve the concern?   | Yes    | Repair Complete.  |
|      | DIA TOD 00 02 1/20 TOSONO THE CONDOM:  | No     | Go to step 7.   |
| 7    | Are the CMU connectors secured properly?   | Yes    | Go to step 8.   |
|      | , as the sme serimental essence properly.  | No     | Insert the connectors correctly.  |
| 8    | Is the CMU wiring harness open or shorted?   |        | Repair / Replace CMU wiring harness.  |
|      |  | No     | Go to step 9.   |
|      |  | Yes    | Repair completed.   |
| 9    | Replace GPS antenna. Does the Navigation system show correct position?   |        | <ul> <li>Check / Replace the CMU.</li> <li>Document date and time of the condition.</li> <li>Retrieve CMU log data if possible before replacing the CMU.</li> </ul> |

Page 14 of 23

|          |  |     | Retrieve CMU backup data<br>if possible before replacing<br>the CMU.  |
|----------|--|-----|---|
| 10       | Using M-MDS, is DTC B119F:49 stored?   | Yes | Go to step 11.  |
| 10       | (Communication error with GNSS)  | No  | Go to step 13.  |
| 11       | Are the CMU connectors secured properly?   | Yes | Go to step 12.  |
| <u> </u> | Are the GWO conhectors secured property:   | No  | Insert the connectors correctly.  |
|          |  | Yes | Repair / Replace CMU wiring harness.  |
| 12       | Is the CMU wiring harness open or shorted?   | No  | <ul> <li>Check / Replace the CMU.</li> <li>Document date and time of the condition.</li> <li>Retrieve CMU log data if possible before replacing the CMU.</li> <li>Retrieve CMU backup data if possible before replacing the CMU.</li> </ul> |
|          | Check / Replace the CMU.   | Yes | Repair completed.   |
| 13       | <ul> <li>Document date and time of the condition.</li> <li>Retrieve CMU log data if possible before replacing the CMU.</li> <li>Retrieve CMU backup data if possible before replacing the CMU.</li> <li>Did DTC B119F:49 clear?</li> </ul> | No  | Repair / Replace GPS antenna.   |

**NOTE:** Remove aftermarket GPS devices that may interfere with vehicle GPS antenna. Example: Some radar detectors may emit radio waves that interfere with the vehicle GPS antenna.

# No. 8 Voice Recognition Does Not Work

| Step | Inspection  | Result   | Action                                 |
|------|---|----------|--|
| 1    | Using M-MDS, are any infotainment system DTC's  | Yes      | Go to MGSS for DTC diagnosis.          |
| 1    | stored?   | No       | Go to step 2.                          |
| 11 1 | Go to MGSS "DIAGNOSTIC ASSIST FUNCTION  | Pass     | Go to step 3.                          |
| 2    | [CONNECTIVITY MASTER UNIT (US)]" and perform Functional Inspection/Adjustment -> Steering SW Inspection Pass? | ıı⊢aıı ı | Go to MGSS STEERING SWITCH INSPECTION. |
| 3    | Go to MGSS "DIAGNOSTIC ASSIST FUNCTION  | Pass     | Check / Replace the CMU.               |

Page 15 of 23

| [CONNECTIVITY MASTER UNIT (US)]" and perform Functional Inspection/Adjustment -> Microphone Inspection -> Did the Microphone Inspection Pass? |            | Retrieve CMU log data if possible before replacing the CMU.     Document date and time of the condition. |
|---|------------|--|
|   | <b>⊢</b> ⊇ | Go to MGSS MICROPHONE INSPECTION.  |

#### No. 9 Cannot Make a Hands-Free Call

| Step | Inspection   | Result | Action   |
|------|--|--------|--|
| 1    | Using M-MDS, are any   | Yes    | Go to MGSS for DTC diagnosis.                                      |
| 1    | infotainment system DTC's stored?  | No     | Go to step 2.  |
| 2    | Is Bluetooth enabled on the  | Yes    | Go to step 3.  |
| 2    | customers device?  | No     | Enable Bluetooth on the customers device.                          |
|      | Is the customers device data   | Yes    | Go to step 4.  |
| 3    | service strength good?   | No     | Move to a location where data service strength is good and retest. |
| 4    | Is the customers device paired to  | Yes    | Go to step 5.  |
| 4    | the vehicle?   | No     | Pair the customers device to the vehicle.                          |
| 5    | Is the customers device selected   | Yes    | Go to step 6.  |
| 5    | in MAZDA CONNECT settings?   | No     | Select the customers device from Bluetooth settings.               |
|      | Delete the device from MAZDA   | Yes    | Normal Operation.  |
| 6    | CONNECT and then re-pair it. Does Bluetooth work correctly?  | No     | Go to step 7.  |
|      | Go to connect.mazda.com -> Support -> Compatibility. Is the customers device compatible?             | Yes    | Go to step 8.  |
| 7    |  | No     | The customers device is not compatible.                            |
| 8    | Does the same symptom occur on   | Yes    | Go to step 9.  |
| 0    | another same model/year vehicle?   | No     | Go to step 10.   |
| 9    | Reboot the customers device.   | Yes    | Vehicle operation is normal.                                       |
| 9    | Does Bluetooth work correctly?   | No     | Go to step 10.   |
|      | Is the Bluetooth device in a place   | Yes    | Move the Bluetooth device away from hidden location.               |
| 10   | where radio waves may be<br>blocked?<br>(Behind or under a sheet, in a box,<br>in a purse/bag, ext.) | No     | Go to step 11.   |
| 11   | Is the Bluetooth device contacting   | Yes    | Move the Bluetooth device away from metal objects.                 |
|      | or blocked by metal objects?   | No     | Go to step 12.   |
| 12   | Is a Bluetooth device and a USB device connected at the same   | Yes    | Disconnect other USB device.                                       |

Page 16 of 23

|    | time?  | No  | Go to step 13.   |  |
|----|--|-----|--|--|
| 13 | Does the problem occur in a specific geological location only?                           |     | Move to a different location. This may be caused by electrical interference by radio stations, specific small power radio stations, or amater radio stations for mobile identification used in industria scientific and medical devices. |  |
|    |  | No  | Go to step 14.   |  |
| 14 | Does the same symptom occur on another Bluetooth device?                                 | Yes | Go to step 15.   |  |
| 14 |  | No  | The customers device is not compatible.  |  |
| 15 | Does the voice recognition system operate using other functions such as Bluetooth Audio? |     | Check / Replace the CMU.  Document device model, software version and occurrence of the condition.  Retrieve CMU log data if possible before replacing the CMU.  Document date and time of the condition.                                |  |
|    |  | No  | Go to No. 8 Voice Recognition Does Not Work.   |  |

# No. 10 Cannot Play Bluetooth Audio

| Step | Inspection  | Result        | Action   |
|------|---|---------------|--|
| 1    | Using M-MDS, are any infotainment                           | Yes           | Go to MGSS for DTC diagnosis   |
| 1    | system DTC's stored?  | No            | Go to step 2.  |
| 2    | Is Bluetooth enabled on the customers                       | Yes           | Go to step 3.  |
|      | device?   | No            | Enable Bluetooth on the customers device.                                      |
|      | Is the customers device data service                        | Yes           | Go to step 4.  |
| 3    | strength good?  |               | Move to a location where data service strength is good and retest.             |
|      | le the quetemore device better, etropath                    | Yes           | Go to step 5.  |
| 4    | Is the customers device battery strength good?              | No            | Connect the customers device to a charger or recharge the device, then retest. |
| 5    | Is the customers device paired to the                       | Yes           | Go to step 6.  |
| 5    | vehicle?  | No            | Pair the customers device to the vehicle.                                      |
|      | la the quaternare device calcuted in                        | Yes           | Go to step 7.  |
| 6    | Is the customers device selected in MAZDA CONNECT settings? | No            | Select the customers device from Bluetooth settings.                           |
|      |   | Yes           | Normal Operation.  |
|      | 7 and then re-pair it.  Does Bluetooth work correctly?      | Go to step 8. |  |
| 8    | Go to connect.mazda.com -> Support -> Compatibility.        | Yes           | Go to step 9.  |

Page 17 of 23

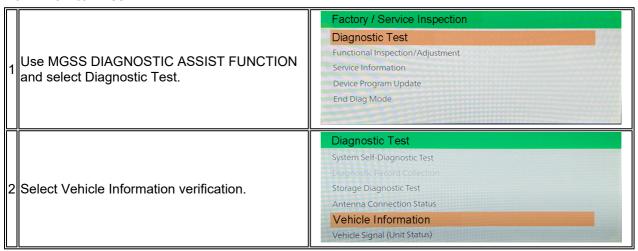
|                                   | Is the customers device compatible?                                  | No                           | The customers device is not compatible.   |  |
|-----------------------------------|--|------------------------------|---|--|
| 0                                 | Does the same symptom occur on another                               | Yes                          | Go to step 10.  |  |
| 9                                 | same model/year vehicle?   | No                           | Go to step 11.  |  |
| Reboot the customers device. Does | Vehicle operation is normal.   |                              |   |  |
| 10                                | Bluetooth work correctly?  | No                           | Go to step 11.  |  |
| 11                                | Is the Bluetooth device in a place where radio waves may be blocked? | Yes                          | Move the Bluetooth device away from hidden location.  |  |
|                                   | (Behind or under a sheet, in a box, in a purse/bag, ext.)            | No                           | Go to step 12.  |  |
| 12                                | Is the Bluetooth device contacting or                                | Yes                          | Move the Bluetooth device away from metal objects.  |  |
| bio                               | blocked by metal objects?  | No                           | Go to step 13.  |  |
|                                   | Yes D  | Disconnect other USB device. |   |  |
| 13                                | Is a Bluetooth device and a USB device connected at the same time?   | No                           | Check / Replace the CMU.  Document device model, software version and occurrence of the condition.  Retrieve CMU log data if possible before replacing the CMU.  Document date and time of the condition. |  |

# No. 11 Navigation address not found

Navigation system does not contain a road that I know it 1 exists and I am certain I have the most recent map update available.

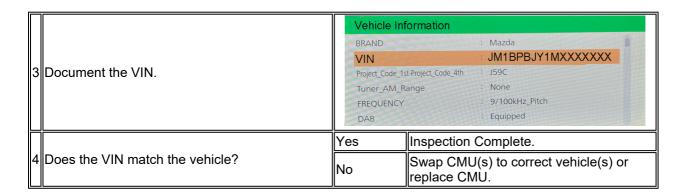
Go to mapcreator.here.com, point, click and report missing address.

#### No 12 How to Check VIN

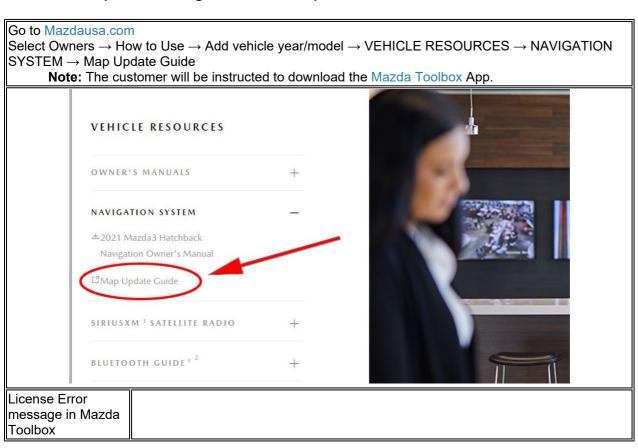


Page 18 of 23

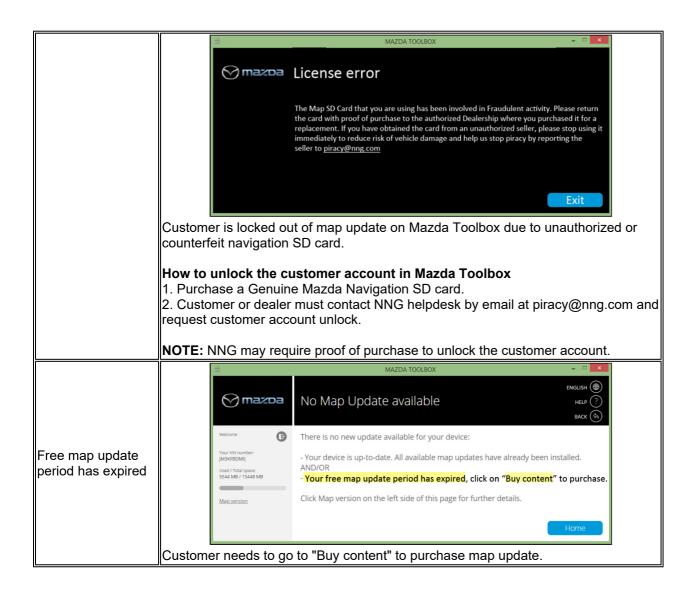
Service Alert No.: SA-004/22 Last Issued : 05/12/2022



#### No. 13 How to update the Navigation SD Card Map

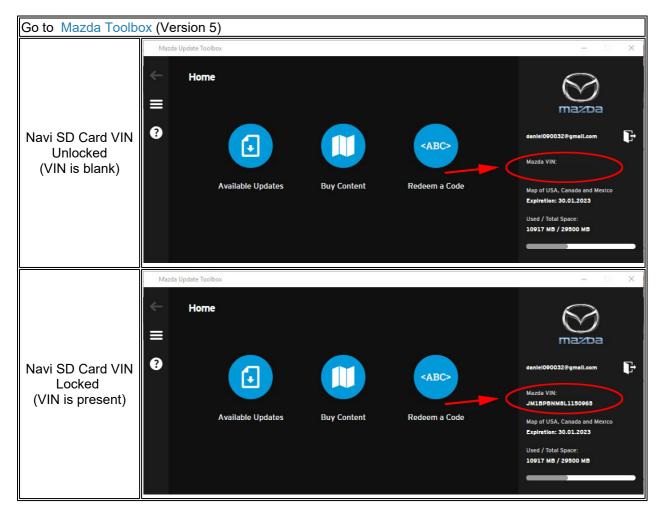


Page 19 of 23



Page 20 of 23

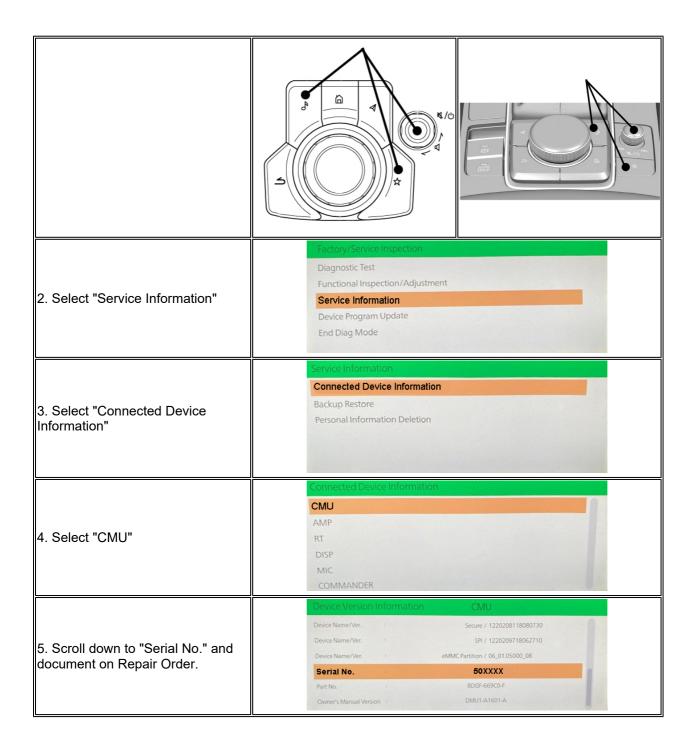
#### No. 14 How to Check Navi SD Card VIN Lock



#### CMII Serial Number Retrieval

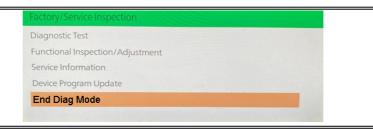
| Cino Serial Nulliber Retrieval  |               |                      |  |  |
|---|---------------|----------------------|--|--|
| 1. Press and hold the Volume knob, then press and hold the Entertainment and Favorites buttons at the same time for 3-5 seconds and the Factory /Service Inspection screen will appear. | CX-5 and CX-9 | Mazda3, CX-30, MX-30 |  |  |

Page 21 of 23



Page 22 of 23

6. Return to Factory/Service Inspection main screen and select End Diag Mode



Affected CMU Serial Number Range and Part Number Suffix

| Model  | Serial Number<br>Start | Serial Number<br>End | Affected Part<br>Number |
|--|------------------------|----------------------|-------------------------|
| CX-5 and CX-9                                  | 687234                 | 754800               | TC3P 66 9C0-F           |
| Mazda3 (Japan built)                           | 622110                 | 624748               | BDGF 66 9C0-W           |
| Mazda3 (Japan built)                           | 500070                 | 505859               | BGMC 66 9C0-D           |
| Mazda3 (Mexico built) and CX-30                | 216848                 | 227361               | DGH9 66 9C0-J           |
| Mazda3 (Mexico built) and CX-30                | 104005                 | 121788               | BGMR 66 9C0-D           |
| Mazda3 Turbo (Japan built)                     | 512261                 | 512520               | BFWM 66 9C0-B           |
| Mazda3 Turbo (Mexico built) and CX-30<br>Turbo | 111827                 | 113170               | BGCE 66 9C0-B           |
| MX-30  | 500125                 | 500664               | DN4E 66 9C0-C           |

Page 23 of 23