ATTENTION:
GENERAL MANAGER ❏
PARTS MANAGER ❏
CLAIMS PERSONNEL ❏
SERVICE MANAGER ❏

IMPORTANT - All Service Personnel Should Read and Initial in the boxes provided, right.

**SUBARU**

QUALITY DRIVEN® SERVICE

## SERVICE BULLETIN

| | | |
|---|---|---|
| **APPLICABILITY:** | 2020-22MY Legacy and Outback Models | **NUMBER:** 15-261-20R |
| **SUBJECT:** | Reprogramming File Availability for Optimization of Gen 4 Denso CP1 Infotainment Systems | **DATE:** 03/10/20 |
| | | **REVISED:** 10/31/22 |

**INTRODUCTION:**

The following information announces reprogramming file availability and provides a software update installation procedure to optimize the new Gen 4 Denso CP1 Audio and Navigation head units utilized in the models listed above.  As in previous models, the procedure will involve either downloading the software update files from Subarunet or using those sent directly from Nuspire to the SDS Notebook and transferring them onto a USB flash drive for head unit installation.

It is **VERY IMPORTANT** to read and understand this information completely before proceeding.

**CAUTION:** VEHICLE SERVICE PERFORMED BY UNTRAINED PERSONAL COULD RESULT IN THE EQUIPMENT DAMAGE OR EVEN SERIOUS INJURY.

Service Bulletin is intended for use by trained technicians ONLY.  It informs technicians of conditions, which may occur in some vehicles or provides information, which could assist with proper servicing of the vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do the job correctly and safely.

A time line chart along with a complete list of all the conditions addressed and enhancements included in this and previous Denso software updates are provided in **"Appendix D"** and **"Appendix E"** located at the end of this bulletin.

**IMPORTANT NOTE:  For 2020-22MY the update contains four (4) files.  When performing an update, the USB must contain the matching number of files and all files must be replaced. ALWAYS use the latest files together as a set.**

**NEVER reuse or combine files from a prior update with a newer version.**

**NEW: Be aware that Wilderness Edition has a separate and unique update version.  Never attempt to put a Wilderness edition update in an Outback or an Outback update in a Wilderness edition.**

*Continued...*

## PART INFORMATION:

**NOTE:** High Level unit is equipped with Navigation option (Map icon on Home screen)



**11.6-Inch Display, Mid and High Level Units**



**Dual 7.0-Inch Display, Base Level Unit**

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### SUBARU

## ATTENTION

The software in the STARLINK® Multimedia system on this vehicle has been recently updated. The current "STARLINK® Multimedia Owners Manual" and the "Getting Started Guide" in the vehicle, may not reflect the latest changes in features and functionality of the STARLINK® Multimedia system.

Subaru of America will have an updated electronic supplement to your "STARLINK® Multimedia manual" and "Getting Started Guide" available on-line as of June 30th.

You can download the electronic supplements by visiting us at:
https://www.subaru.com/owners/index.html

You can also request a printed copy of the supplements by writing us at:
https://www.subaru.com/customer-support.html

Also, you can contact us at 1-800-SUBARU3 (1-800-782-2783)

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## Materials Required:

An empty, USB 2.0 or 3.0 storage device (flash drive) will be needed to perform the update procedure. The device should be dedicated to storing and transferring these updating files only. It must be a minimum of **16GB** or more in size and contain a **NTFS** file format before downloading the update files onto it. Be sure to locate and re-format any existing USB drives used for updating audio units. They must be fully cleared before adding these new update files to them.

## IMPORTANT NOTES:

- **NEVER** change the update file names after downloading them.
- **NEVER** save any other files on the same flash drive.

There are various types of USB flash drive available from many suppliers. If the head unit does NOT recognize the USB drive during the reprogramming process due to Controller IC type of USB drive or Compatibility with the head unit, confirm the flash drive format is **NTFS**. The flash drive must be formatted for **NTFS**. If a recognition problem persists, use a USB flash drive from another manufacturer.

- Kingston®:
  DataTraveler G3 Series DataTraveler 100 G3 DT100G3
  DataTraveler SE9 Series DataTraveler SE9 G2 3.0 DTSE9G2
  Digital Data Traveler 3.0 USB Flash Drive - Violet DTIG4



- SanDisk®:
  Ultra Series SDCZ48-064G-J57
  Cruzer Blade Series
  Cruzer Glide Series CZ60 SDCZ60-064G-B35



*Continued...*

- Transcend®:
  JetFlash 790 Series TS64GJF790KBE



- PNY®:
  Retract USB 3.0 Flash Drive, black (P-FD64GTRTC-GE)



- Silicon Power®:
  2 Pack USB 3.0/3.1 Gen1 USB Flash Drive Blaze B02



**IMPORTANT NOTE:  For 2020-22MY the update contains four (4) files.  When performing an update, the USB must contain the matching number of files and all files must be replaced. ALWAYS use the latest files together as a set.**

**NEVER reuse or combine files from a prior update with a newer version.**

**NEW: Be aware that Wilderness Edition has a separate and unique update version.  Never attempt to put a Wilderness edition update in an Outback or an Outback update in a Wilderness edition.**

**SERVICE PROCEDURE / INFORMATION:**

**REMINDER:**  Customer satisfaction and retention starts with performing quality repairs.

**STEP 1-  VERY IMPORTANT:**  Before proceeding with the software updating procedure, the currently installed software version ID **MUST** be confirmed by following the steps below:

**1a)** After starting the engine and system boot-up completes, from the HOME screen, touch the **Settings** button.



*Continued...*

**1b)** Press the **General** button.  Use the down arrow to scroll to **System Information** then press to display the System Information / Version information.
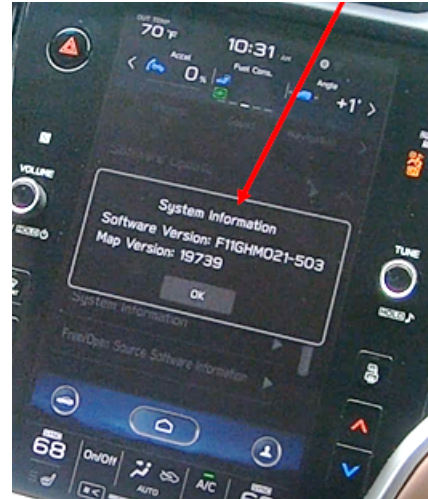
The examples below identify the head unit model and the last 6 digits signify the software version number.  Examples:

- F11GHMxxx-xxx (**High** model software)
- F11GMMxxx-xxx (**Mid** model software)
- F11GBMxxx-xxx (**Base** model software)

If on a Legacy and Outback, the software version number

| | |
|---|---|
| 20MY Model | F11GHMxxx-xxx(High model software) |
| | F11GMMxxx-xxx(Mid model software) |
| | F11GBMxxx-xxx(Base model software) |
| | |
| 21MY Model | F31BHMxxx-xxx(High model software) |
| | F31BMMxxx-xxx(Mid model software) |
| | F31BBMxxx-xxx(Base model software) |
| | |
| 22MY Model | FB1SHMxxx-xxx(High model software) |
| | FB1SMMxxx-xxx(Mid model software) |
| | FB1SBMxxx-xxx(Base model software) |
| | |
| WILDERNESS | F51XHMxxx-xxx(High model software) |
| | |
| WILDERNESS | F51XMMxxx-xxx(Mid model software) |

*Continued...*

| MY | Carline | Trim/Grade | Older Software Versions | Latest Software Version |
|---|---|---|---|---|
| 20MY | Outback/ Legacy | BASE | 020-501<br>020-502<br>021-503<br>022-504<br>032-280<br>072-582<br>112-680<br>122-780 | 132-880 |
| | | MID | 020-501<br>020-502<br>021-503<br>022-504<br>032-280<br>072-582<br>112-680<br>122-780 | 132-880 |
| | | HIGH | 020-501<br>020-502<br>021-503<br>022-504<br>032-280<br>072-582<br>112-680<br>122-780 | 132-880 |
| 21MY | Outback/ Legacy | BASE | 008-500<br>030-880<br>071-182<br>111-280<br>121-380 | 131-480 |
| | | MID | 008-500<br>030-880<br>071-182<br>111-280<br>121-380 | 131-480 |
| | | HIGH | 008-500<br>030-880<br>071-182<br>111-280<br>121-380 | 131-480 |
| 22MY | Outback/ Legacy | BASE | 060-781<br>070-882<br>110-980<br>121-380 | 131-180 |
| | | MID | 060-781<br>070-882<br>110-980<br>121-080 | 131-180 |
| | | HIGH | 060-781<br>070-882<br>110-980<br>121-080 | 131-180 |
| 22MY Wilderness | Outback | MID | 060-981<br>071-082<br>111-180<br>121-280 | 131-380 |
| | | HIGH | 060-981<br>071-082<br>111-180<br>121-280 | 131-380 |

*Continued...*

**STEP 2-** Prepare the USB:

**CAUTION:** Do not use any USB flash drive which utilizes file organizing software or an operating system.

**VERY IMPORTANT:** Before attempting to download any data files, confirm the PC and flash drive being used is not infected with any virus. The flash drive MUST be formatted for **NTFS**.

- Make sure the USB flash drive contains no other files.

- Right click on the corresponding "Removable Disk".

- Select "Format".

- From the File System drop-down menu, select "**NTFS**"

- Check the "Quick Format" box (if not already done).

- Click on "Start" to format the USB flash drive.
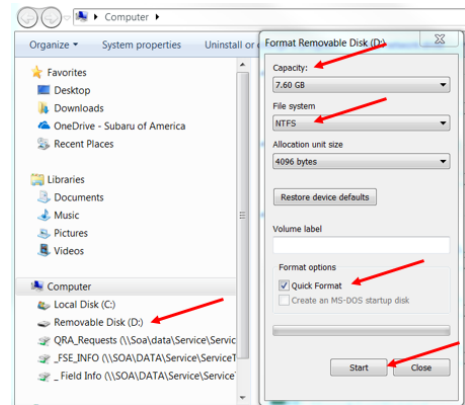


**STEP 3-** Download the Update Files to the USB:

The files are available for download on Subarunet (see **"A"** below).

The applicable reprogramming files have also been sent directly to retailers by Nuspire in the same way a Select Monitor Update would be pushed out. (see **"B"** below).

**Follow "A"** when using files downloaded from Subarunet.

**Follow "B"** when using the files sent directly to the SDS notebook from Nuspire.

**"A" When using update files downloaded from Subarunet:**

*Click Here to Access the Downloads for Audio/Navigation Information on Subarunet*
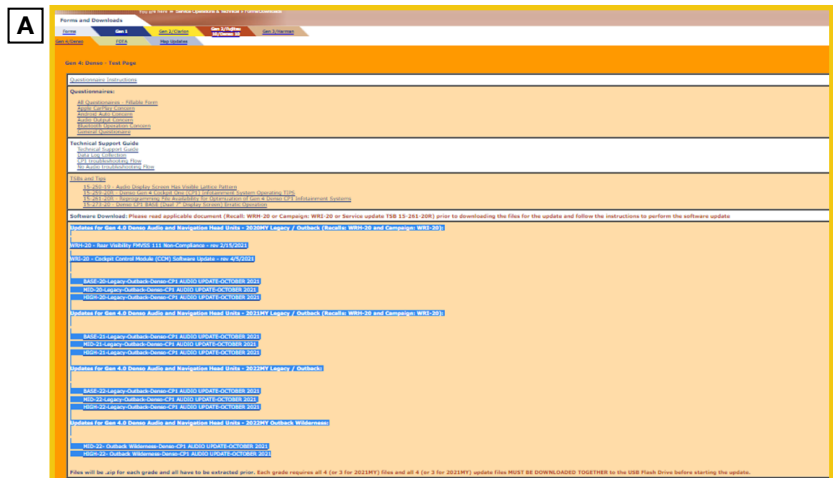


*Continued...*

**IMPORTANT:** Files downloaded from Subarunet will be .zip files and must be unzipped before they can be used. Using the normal audio / navigation system file update download procedure: Go to Subarunet, select Service Operations and Technical>>Forms/Downloads>>**Gen 4/Denso** for Audio/ Navi then click on the applicable Hyperlink to download the file(s) to your SDS Notebook or PC:

**Updates for Gen 4.0 Denso Audio and Navigation Head Units - 2020MY Legacy / Outback:**

BASE-20-Legacy-Outback-Denso-CP1 AUDIO UPDATE-October 2022

MID-20-Legacy-Outback-Denso-CP1 AUDIO UPDATE-October 2022

HIGH-20-Legacy-Outback-Denso-CP1 AUDIO UPDATE-October 2022

**Updates for Gen 4.0 Denso Audio and Navigation Head Units - 2021MY Legacy / Outback:**

BASE-21-Legacy-Outback-Denso-CP1 AUDIO UPDATE-October 2022

MID-21-Legacy-Outback-Denso-CP1 AUDIO UPDATE-October 2022

HIGH-21-Legacy-Outback-Denso-CP1 AUDIO UPDATE-October 2022

**Updates for Gen 4.0 Denso Audio and Navigation Head Units - 2022MY Legacy / Outback:**

BASE-22-Legacy-Outback-Denso-CP1 AUDIO UPDATE-October 2022

MID-22-Legacy-Outback-Denso-CP1 AUDIO UPDATE-October 2022

HIGH-22-Legacy-Outback-Denso-CP1 AUDIO UPDATE-October 2022

**Updates for Gen 4.0 Denso Audio and Navigation Head Units - 2022MY Outback Wilderness:**

MID-22-Outback Wilderness-Denso-CP1 AUDIO UPDATE-October 2022

HIGH-22-Outback Wilderness-Denso-CP1 AUDIO UPDATE-October 2022

- Go to Downloads.
- **CAUTION:** After download is complete, **NEVER** change the file or folder names.
- Open / display the contents of File folder, for example: "File name TBD".
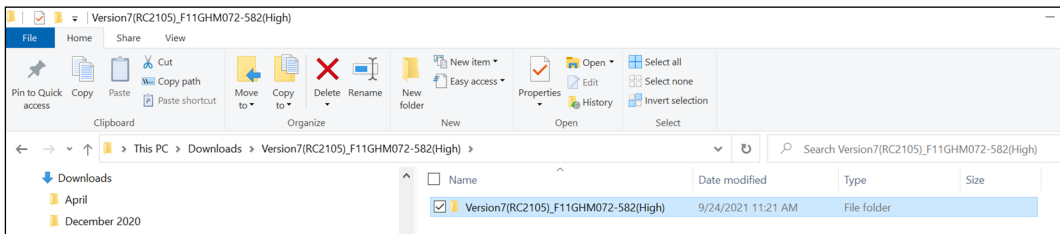- Click on "Extract All Files".
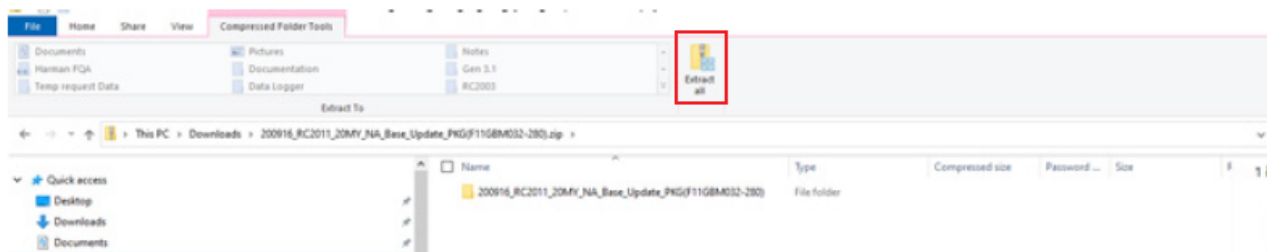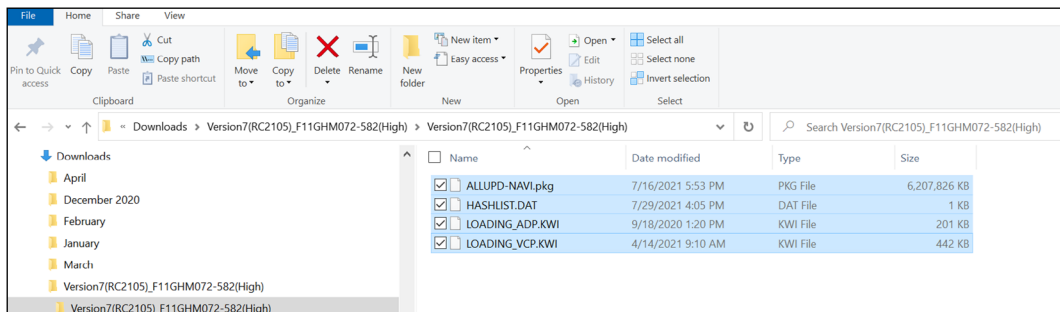


*Continued...*

- The screen below will appear to set a destination for the extracted file.
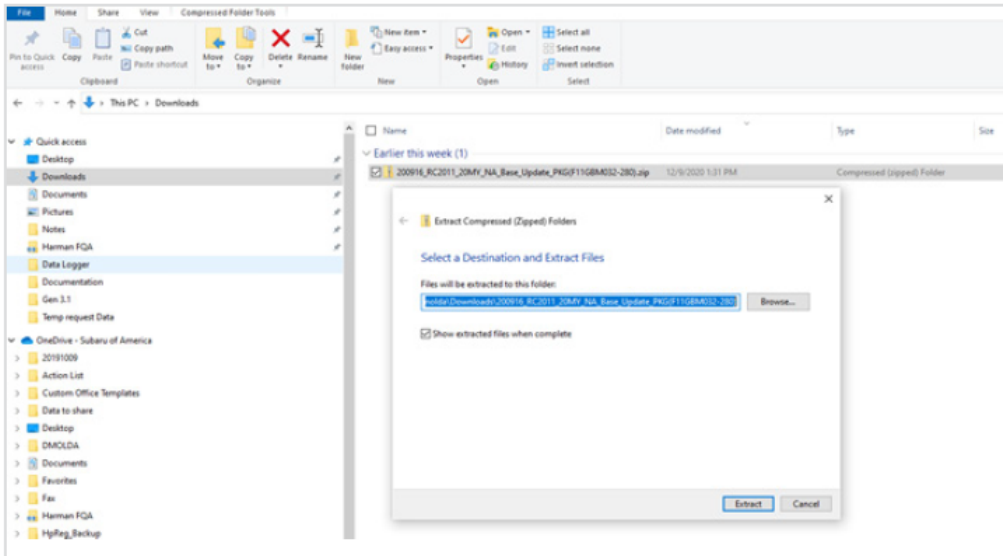


- Double-click on the required folder (for this example, used folder titled "Version7(RC2105)_ F11GHM072-582(High)").



- Copy **all files** then paste (or click / drag) it to the "clean" USB flash drive as listed (Removable Disk) in the directory.



**IMPORTANT NOTE:  For 2020-22MY the update contains four (4) files.  When performing an update, the USB must contain the matching number of files and all files must be replaced. ALWAYS use the latest files together as a set.**

**NEVER reuse or combine files from a prior update with a newer version.**

**NEW: Be aware that Wilderness Edition has a separate and unique update version.  Never attempt to put a Wilderness edition update in an Outback or an Outback update in a Wilderness edition.**

- To avoid confusion, use a permanent marker to label the flash drive with the file contents (e.g. BASE Denso CP1 2020MY, MID Denso CP1 2020MY or HIGH Denso CP1 2020MY).

*Continued...*

- Go to **Step 4.**

**"B" When using update files sent directly from Nuspire:**

- Go to My Documents on the GUI screen click on the folder "Denso CP1 Audio-Navi Update Files" to display the list of available update files shown below.
  **IMPORTANT:** Always confirm there are four folders as shown below, "2020" ,"2021", "2022"and "2022 Wilderness". If not, the SDS notebook hasn't been updated with the latest release. Please contact Nuspire to request they resend the update."
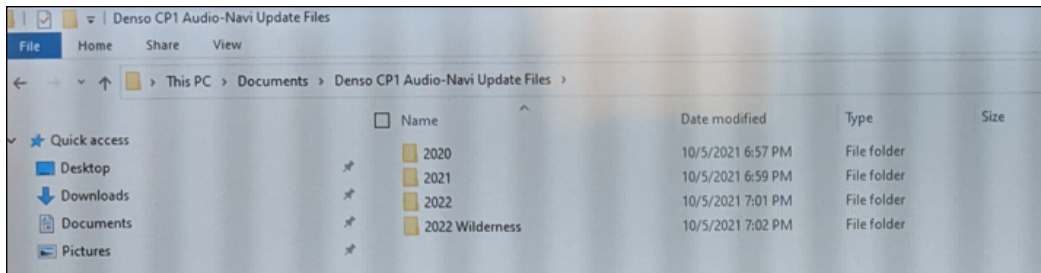


- **CAUTION:** After download is complete, **NEVER** change the file or folder names.

- Double-click on the required folder (for this example, select the file entitled "BASE") and the update file will display as shown.
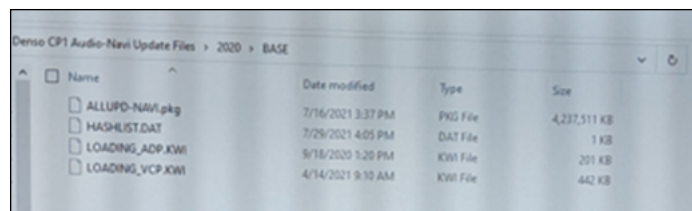


- Select all 4 files and either copy / paste or click / drag them to the USB flash drive.

**IMPORTANT NOTE:  For 2020-22MY the update contains four (4) files.  When performing an update, the USB must contain the matching number of files and all files must be replaced.  ALWAYS use the latest files together as a set.**

**NEVER reuse or combine files from a prior update with a newer version.**

**NEW: Be aware that Wilderness Edition has a separate and unique update version.  Never attempt to put a Wilderness edition update in an Outback or an Outback update in a Wilderness edition.**

- Once all files have been loaded onto the USB flash drive, right click on the drive and select "Eject".
  **CAUTION:** NEVER change the file names.

- Remove the USB flash drive after the prompt appears that says "Safe to Remove Hardware".

- Mark the USB to indicate the head unit it will update (BASE Denso CP1 in this example).

- Repeat the above steps to create the BASE Denso CP1 or MID Denso CP1 or HIGH Denso CP1 USB flash drives as needed using a separate USB drive for each update folder.

- Proceed to **STEP 4** below.

*Continued...*

**STEP 4-** Perform the software update.

      **CAUTIONS:**

- **NEVER** attempt to install the software immediately following an exchange module installation.
  Let the system restart first and operate for 20 minutes.

- **NEVER** attempt to install the software a second time for 30 minutes following a previously unsuccessful software installation.

- **NEVER** attempt to install the software for at least 30 minutes after completing a FOTA update.

Best practice is to prevent USB software update conflicts with FOTA software update. Please confirm "Automatically Check for Update" setting is turned off following the steps below, prior to starting the software update via USB.



**4a)** Perform the update in a well ventilated location if updating with the engine running OR with the ignition ON and a battery charger connected.

**4b)** PRESS and HOLD the RIGHT-side temperature control buttons (both up and down) and press the Tune / Scroll knob 6 times then release all to display the Dealership Mode Menu.

| High/Mid | Base |
|---|---|
|  |  |
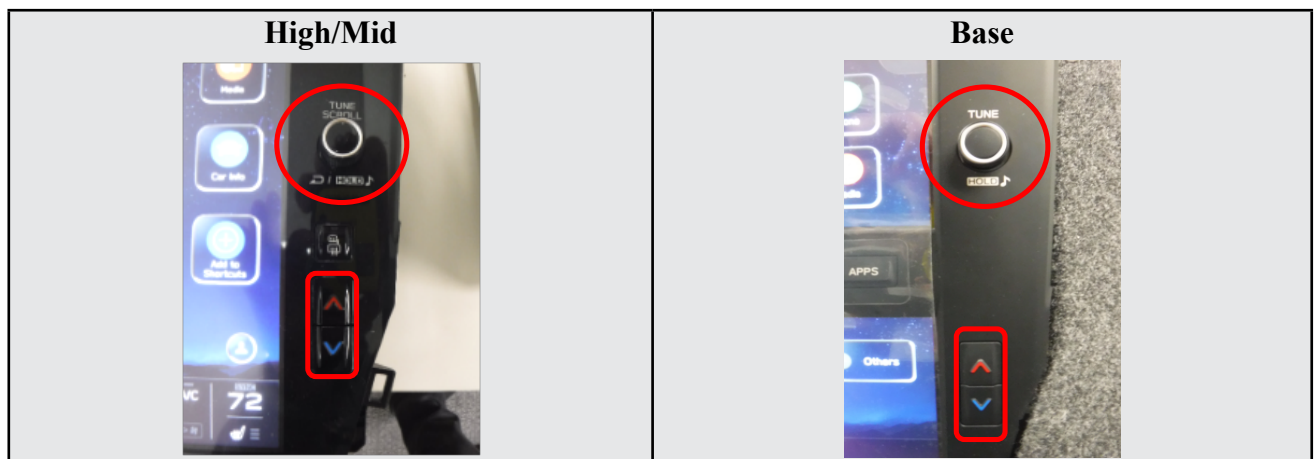
*Continued...*

**4c)** Select **Software Update** from the Dealership Mode menu.

| High/Mid | Base |
|---|---|
|  |  |
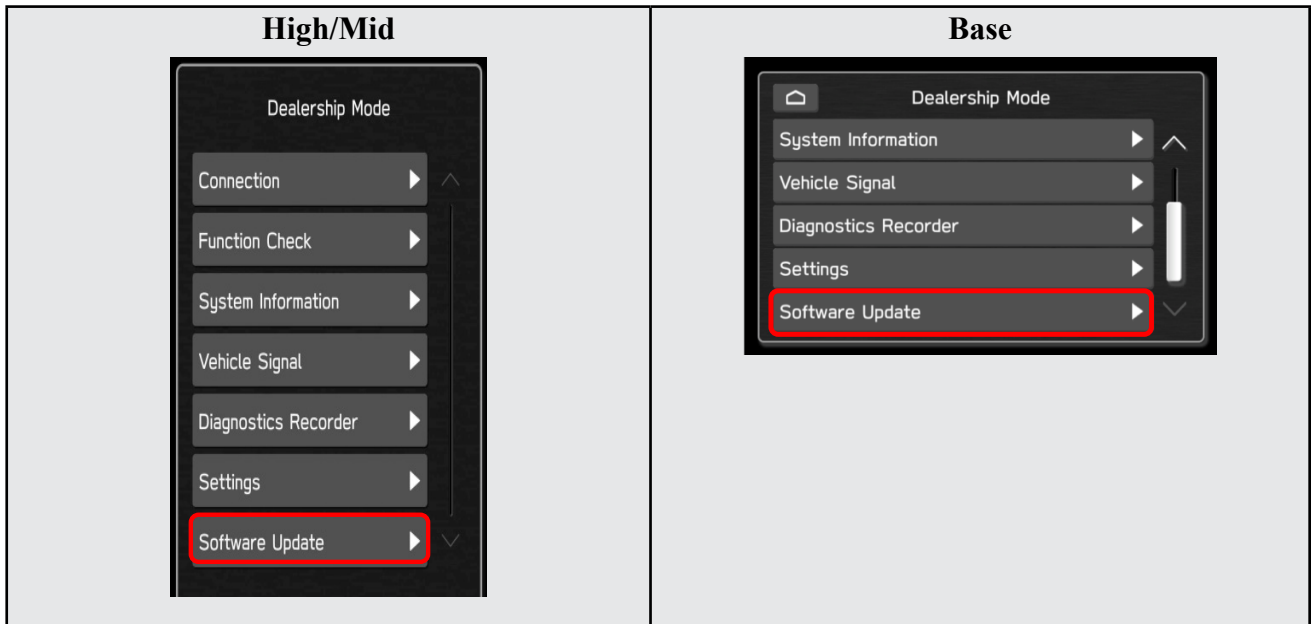
**4:**

**IMPORTANT NOTE:** On a RARE occasion, the message "Software update setup is initializing…" may be displayed.  Should this occur, proceed to "**Appendix A**" starting on pg. 20 of this bulletin for further instruction.
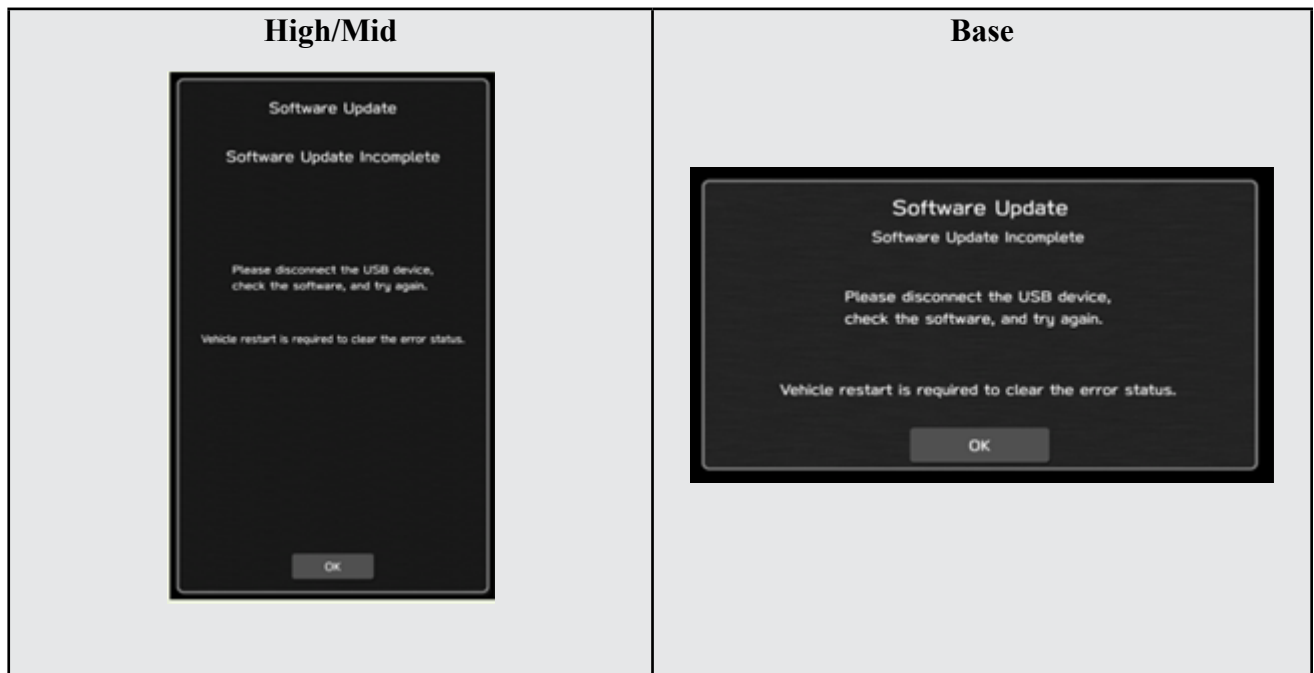
**4d)** The screen below will be displayed.

| High/Mid | Base |
|---|---|
|  |  |
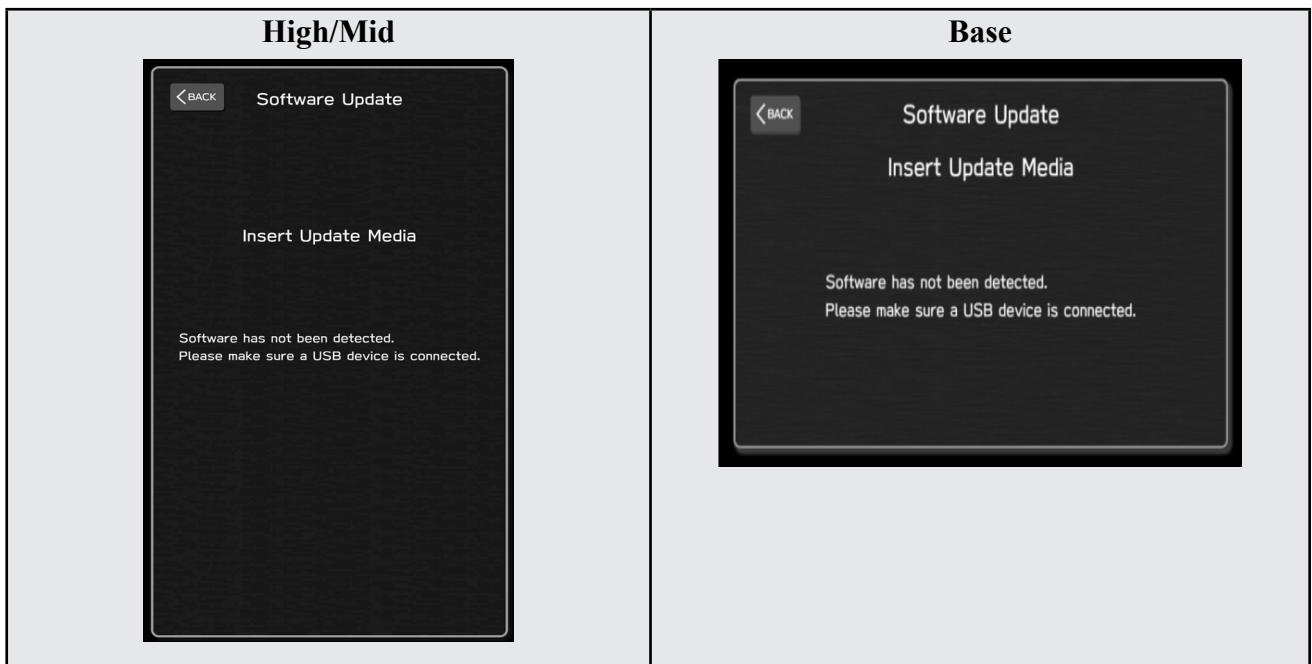
*Continued...*

**4e)** Insert reprogramming USB into the USB port and press **OK**.
**NOTE:** If after plugging in the USB, the screen displays a **Software Loading Unsuccessful** message, confirm the USB device has been properly formatted and the the software on the device matches the system being reprogrammed (example: Base software is being used to update a Base system) and retry.

| High/Mid | Base |
|---|---|
|  **NG** / **OK** |  **NG** / **OK** |
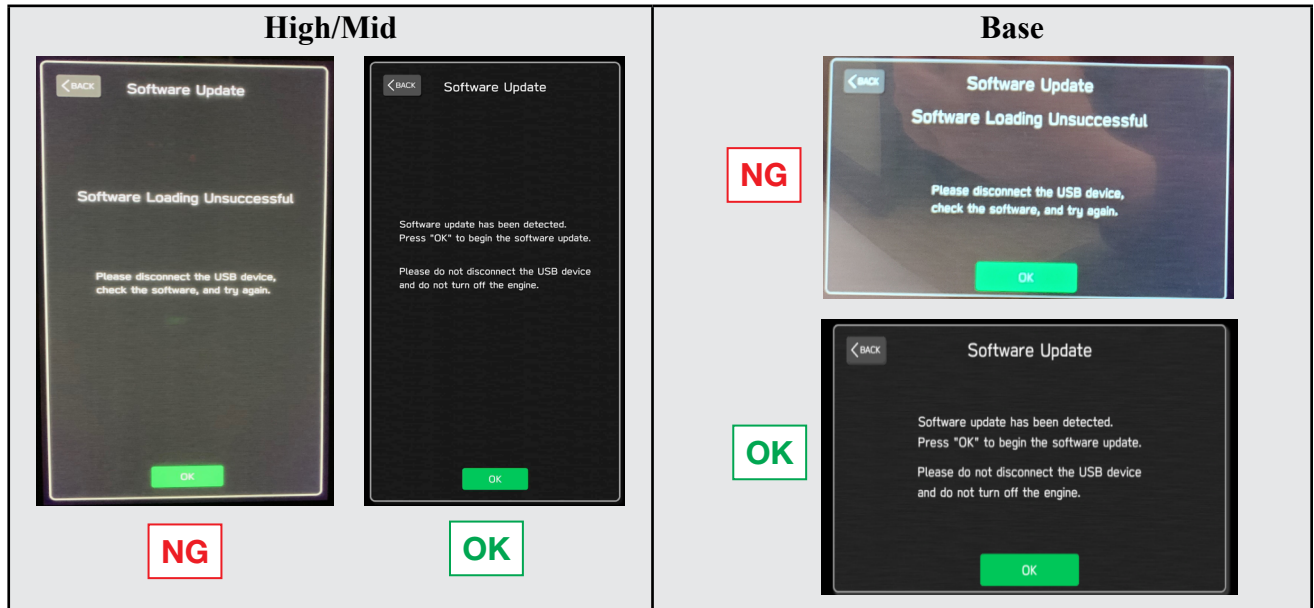
If you get the message Software Update Incomplete as shown below, please don't replace the hardware but retry updating the software according to the instructions in "Appendix B " on pg. 21.

| High/Mid | Base |
|---|---|
|  |  |

*Continued...*

**4f)** The screen below will be displayed. Press **OK** to start the software update.

**NOTE:** The actual software version displayed will be different from the picture shown below.

| High/Mid | Base |
|---|---|
| Software Update<br><br>Software Update Ready to Install<br><br>MSOC<br>　Current Version　: F11GHM020-600<br>　Available Version : F11GHM022-504<br><br>DSP<br>　Current Version　: 02.04.09<br>　Available Version : 02.24.06<br><br>V-CPU<br>　Current Version　: F11GHV020-500<br>　Available Version : F11GHV020-501<br><br>Please do not disconnect the USB device<br>and do not turn off the engine.<br><br>OK　　　　Cancel<br><br>**Please refer to the following table.** | Software Update<br>Software Update Ready to Install<br><br>MSOC<br>　Current Version　: F11GBM021-002<br>　Available Version : F11GBM021-503<br><br>Please do not disconnect the USB device<br>and do not turn off the engine.<br><br>OK　　　　Cancel<br><br>**Please refer to the following table.** |

*Continued...*

## Version Table 20MY

### \<MSoC\>
Current Version

| Model | MSOC Version |
|---|---|
| High | F11GHM020-501 or F11GHM020-502 or F11GHM021-503 or F11GHM022-504 or F11GHM020-704 and F11GHM021-704 or F11GHM022-504 or F11GHM042-380 or F11GHM072-582 or F11GHM112-680 or F11GHM122-780 |
| Mid | F11GMM020-501 or F11GMM020-502 or F11GMM021-503 or F11GMM022-504 or F11GMM020-704 or F11GMM021-704 or F11GMM022-504 or F11GMM042-380 or F11GMM072-582 or F11GMM112-680 or F11GMM122-780 |

Available Version

| Model | MSOC Version |
|---|---|
| High | F11GHM132-880 |
| Mid | F11GMM132-880 |

### \<DSP\>
Current Version

| Model | DSP Version |
|---|---|
| High/Mid | 02.04.03 or 02.24.06 or 02.26.08 |

Available Version

| Model | DSP Version |
|---|---|
| High/Mid | 02.26.09 |

### \<VCPU\>
Current Version

| Model | VCPU Version |
|---|---|
| High/Mid | F11GHV020-500 or F11GHV020-501 or F11GHV072-280 |

Available Version

| Model | VCPU Version |
|---|---|
| High/Mid | F11GHV072-280 |

## Version Table 20MY

### \<MSoC\>
Current Version

| Model | MSOC Version |
|---|---|
| Base | F11GBM020-501 or F11GBM020-502 or F11GBM021-503 or F11GBM022-504 or F11GBM032-280 or F11GBM072-582 or F11GBM112-680 or F11GBM122-780 |

Available Version

| Model | MSOC Version |
|---|---|
| Base | F11GBM132-880 |

### \<DSP\>
Current Version

| Model | DSP Version |
|---|---|
| Base | 02.04.03 or 02.24.06 or 02.26.08 |

Available Version

| Model | DSP Version |
|---|---|
| Base | 02.26.09 |

### \<VCPU\>
Current Version

| Model | VCPU Version |
|---|---|
| Base | F11GHV020-500 or F11GHV020-501 or F11GHV072-280 |

Available Version

| Model | VCPU Version |
|---|---|
| Base | F11GHV072-280 |

## Version Table 21MY

### \<MSoC\>
Current Version

| Model | MSOC Version |
|---|---|
| High | F31BHM008-500 or F31BHM040-980 or F31BHM071-182 or F31BHM111-280 or F31BHM121-380 |
| Mid | F31BMM008-500 or F31BMM040-980 or F31BMM071-182 or F31BMM111-280 or F31BMM121-38 |

Available Version

| Model | MSOC Version |
|---|---|
| High | F31BHM131-480 |
| Mid | F31BMM131-480 |

### \<DSP\>
Current Version

| Model | DSP Version |
|---|---|
| High/Mid | 02.24.06 or 02.26.08 |

Available Version

| Model | DSP Version |
|---|---|
| High/Mid | 02.26.09 |

### \<VCPU\>
Current Version

| Model | VCPU Version |
|---|---|
| High/Mid | F31BHV003-500 or F31BHV070-580 |

Available Version

| Model | VCPU Version |
|---|---|
| High/Mid | F31BHV070-580 |

## Version Table 21MY

### \<MSoC\>
Current Version

| Model | MSOC Version |
|---|---|
| Base | F31BBM008-500 or F31BBM030-880 or F31BBM071-182 or F31BBM111-280 or F31BBM111-280 or F31BBM121-380 |

Available Version

| Model | MSOC Version |
|---|---|
| Base | F31BBM131-480 |

### \<DSP\>
Current Version

| Model | DSP Version |
|---|---|
| Base | 02.04.06 or 02.24.08 or 02.26.08 |

Available Version

| Model | DSP Version |
|---|---|
| Base | 02.26.09 |

### \<VCPU\>
Current Version

| Model | VCPU Version |
|---|---|
| Base | F31BHV003-500 or F31BHV070-580 |

Available Version

| Model | VCPU Version |
|---|---|
| Base | F31BHV070-580 |

*Continued...*

# Software Version Table

## Version Table 22MY

### <MSoC>
Current Version

| Model | MSOC Version |
|---|---|
| High | FB1SHM060-781 or FB1SHM070-882 or FB1SHM110-980 or FB1SHM132-180 |
| Mid | FB1SMM060-781 or FB1SMM070-882 or FB1SMM110-980 or FB1SMM131-180 |

Available Version

| Model | MSOC Version |
|---|---|
| High | FB1SHM131-180 |
| Mid | FB1SMM131-180 |

### <DSP>
Current Version

| Model | DSP Version |
|---|---|
| High/Mid | 02.26.08 |

Available Version

| Model | DSP Version |
|---|---|
| High/Mid | 02.26.09 |

### <VCPU>
Current Version

| Model | VCPU Version |
|---|---|
| High/Mid | FB1SHV060-280 or FB1SHV070-380 |

Available Version

| Model | VCPU Version |
|---|---|
| High/Mid | FB1SHV070-380 |

## Version Table 22MY

### <MSoC>
Current Version

| Model | MSOC Version |
|---|---|
| Base | FB1SBM060-781 or FB1SBM070-882 or FB1SBM110-980 or FB1SBM131-380 |

Available Version

| Model | MSOC Version |
|---|---|
| Base | FB1SBM131-180 |

### <DSP>
Current Version

| Model | DSP Version |
|---|---|
| Base | 02.26.08 |

Available Version

| Model | DSP Version |
|---|---|
| Base | 02.26.09 |

### <VCPU>
Current Version

| Model | VCPU Version |
|---|---|
| Base | FB1SHV060-280 or FB1SHV070-380 |

Available Version

| Model | VCPU Version |
|---|---|
| Base | FB1SHV070-380 |

## Version Table 22MY Wilderness

### <MSoC>
Current Version

| Model | MSOC Version |
|---|---|
| High | F51XHM060-981 or F51XHM071-082 or F51XHM111-180 |
| Mid | F51XMM060-981 or F51XMM071-082 or F51XMM111-180 |

Available Version

| Model | MSOC Version |
|---|---|
| High | F51XHM121-280 |
| Mid | F51XMM121-280 |

### <DSP>
Current Version

| Model | DSP Version |
|---|---|
| High/Mid | 02.06.28 |

Available Version

| Model | DSP Version |
|---|---|
| High/Mid | 02.26.08 |

### <VCPU>
Current Version

| Model | VCPU Version |
|---|---|
| High/Mid | F51XHV060-480 or F51XHV070-580 |

Available Version

| Model | VCPU Version |
|---|---|
| High/Mid | F51XHV070-580 |

**4g)** Once the update begins, the screen below will be displayed with a progress bar. It takes about 15 to 20 minutes for the update to complete.

**VERY IMPORTANT:** NEVER turn off the ignition while the software update is in process.

| High/Mid | Base |
|---|---|
|  |  |

**4h)** When the software update is complete, the following screen will be displayed (the actual software version will be different).

| High/Mid | Base |
|---|---|
|  Press **"OK"** |  Press **"OK"** |
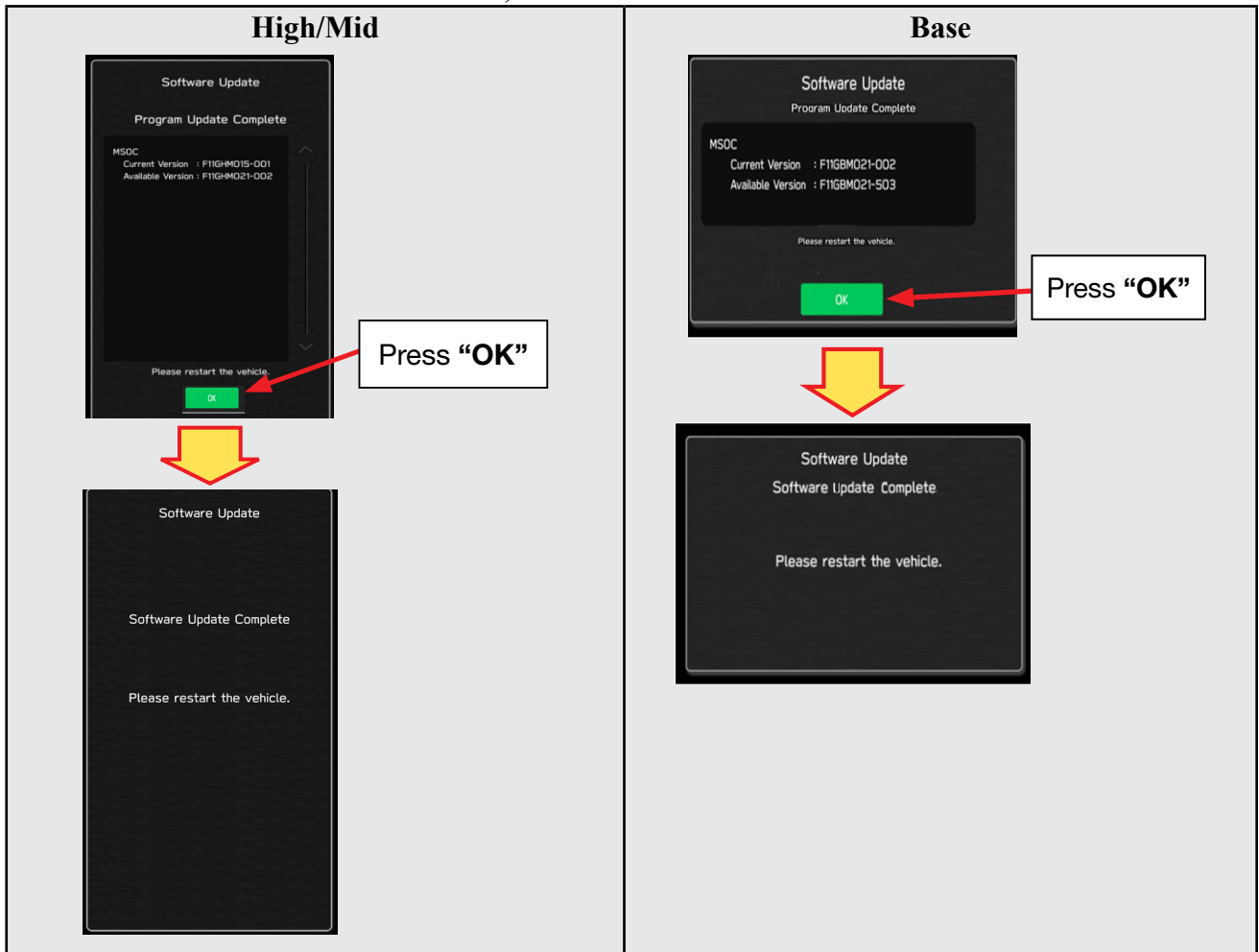
*Continued...*

**IMPORTANT NOTE:**

On a rare occasions a "Software Update Incomplete" message may appear in this step which occurs due to a bug in the software update procedure. Proceed to Step 4i below to confirm the software version has been updated to the latest version.

**4i)** Select **OK** in the screen above then remove the H/U reprogramming USB from the USB port.

**4j)** Turn the Ignition OFF, open the driver's door then close the driver's door.

**4k)** Wait for **3 minutes**, then turn the ignition ON.

**4l)** Access Dealership Mode following steps provided item **4b** and using the tables below, confirm the software update completed successfully.

  **NOTE:** The new Software Version number must be entered when prompted at claim entry.

Version Table — 20MY

| Model | MSOC Version |
|---|---|
| High | F11GHM132-880 |
| Mid | F11GMM132-880 |
| **Model** | **DSP Version** |
| High/Mid | 02.26.09 |
| **Model** | **VCPU Version** |
| High/Mid | F11GHV072-280 |

Version Table — 20MY

| Model | MSOC Version |
|---|---|
| Base | F11GBM132-880 |
| **Model** | **DSP Version** |
| Base | 02.26.09 |
| **Model** | **VCPU Version** |
| Base | F11GHV072-280 |

Version Table — 21MY

| Model | MSOC Version |
|---|---|
| High | F31BHM131-480 |
| Mid | F31BMM131-480 |
| **Model** | **DSP Version** |
| High/Mid | 02.26.08 |
| **Model** | **VCPU Version** |
| High/Mid | F31BHV070-580 |

Version Table — 21MY

| Model | MSOC Version |
|---|---|
| Base | F31BBM131-480 |
| **Model** | **DSP Version** |
| Base | 02.26.08 |
| **Model** | **VCPU Version** |
| Base | F31BHV070-580 |

Version Table — 22MY

| Model | MSOC Version |
|---|---|
| High | FB1SHM131-180 |
| Mid | FB1SMM131-180 |
| **Model** | **DSP Version** |
| High/Mid | 02.26.09 |
| **Model** | **VCPU Version** |
| High/Mid | FB1SHV070-380 |

Version Table — 22MY

| Model | MSOC Version |
|---|---|
| Base | FB1SBM131-180 |
| **Model** | **DSP Version** |
| Base | 02.26.09 |
| **Model** | **VCPU Version** |
| Base | FB1SHV070-380 |

Version Table — 22MY WILDERNESS

| Model | MSOC Version |
|---|---|
| High | F51XHM131-380 |
| Mid | F51XMM131-380 |
| **Model** | **DSP Version** |
| High/Mid | 02.26.09 |
| **Model** | **VCPU Version** |
| High/Mid | F51XHV070-580 |

*Continued...*

**4m)** Enable the setting "Automatically Check for Updates" as shown in the steps below.
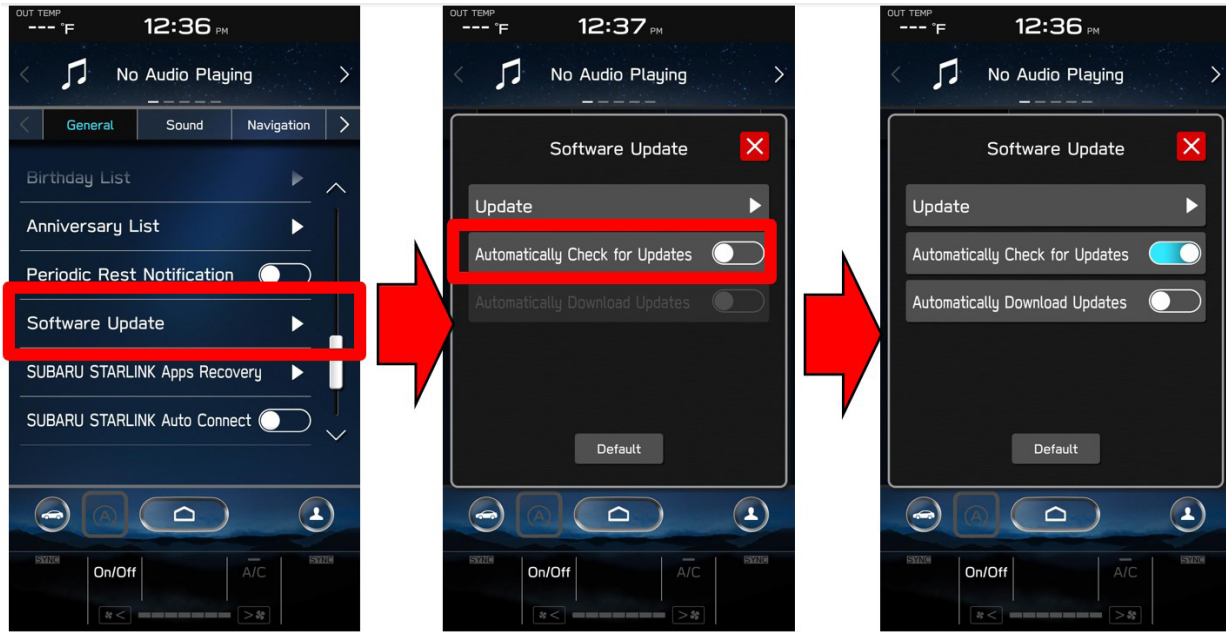


**4n)** Turn the ignition OFF, open the driver's door then close the driver's door to complete the procedure.

## WARRANTY / CLAIM INFORMATION:

For vehicles within the Basic New Car Limited Warranty period or covered by an active Subaru Added Security Gold plan, this repair may be submitted using the following claim information:

| CAUTION: VEHICLE SERVICING PERFORMED BY UNTRAINED PERSONS COULD RESULT IN SERIOUS INJURY TO THOSE PERSONS OR TO OTHERS. | Subaru of America, Inc. is ISO 14001 Compliant |
|---|---|
| Subaru Service Bulletins are intended for use by professional technicians ONLY. They are written to inform those technicians of conditions that may occur in some vehicles, or to provide information that could assist in the proper servicing of the vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do the job correctly and safely. If a condition is described, DO NOT assume that this Service Bulletin applies to your vehicle, or that your vehicle will have that condition. | ISO 14001 is the international standard for excellence in Environmental Management Systems. Please recycle or dispose of automotive products in a manner that is friendly to our environment and in accordance with all local, state and federal laws and regulations. |

| Labor Description | Labor Operation # | Labor Time | Fail Codes |
|---|---|---|---|
| DENSO CP1 SOFTWARE UPDATE-INCLUDES VERSION CHECK | A031-173 | 1.0 | ZTZ-48 (BASE, MID, HIGH) |

**REMINDER:** The new Software Version number must be entered when prompted at claim entry.

**NOTE:** Retailers are now permitted to claim up to $5.00 per claim in Sublet to help offset the cost of replacement USB drives. Repeated re-formatting of the USB drives used for reprogramming can compromise their ability to operate properly. Over time, hardware connections can loosen and stored data files can become corrupted. Retailers are responsible for replacing any worn or otherwise inoperable USB drives as needed. This compensation is intended to help defray those costs.

*Continued...*

**IMPORTANT REMINDERS:**

- SOA strongly discourages the printing and/or local storage of service information as previously released information and electronic publications may be updated at any time.

- Always check for any open recalls or campaigns anytime a vehicle is in for servicing.

- Always refer to STIS for the latest service information before performing any repairs.

*Continued...*

# "APPENDIX A"

Follow this procedure in the RARE case of "**Software update setup is initializing…**" message is displayed:

- If the screen shown below appears, **WAIT** for approximately 30 minutes or as long as necessary (waiting for longer than 60 minutes might indicate system malfunction). In that case please perform recovery according to the instructions in "Appendix B " to allow the Software update setup initialization process to complete.

| High/Mid | Base |
|---|---|
|  |  |
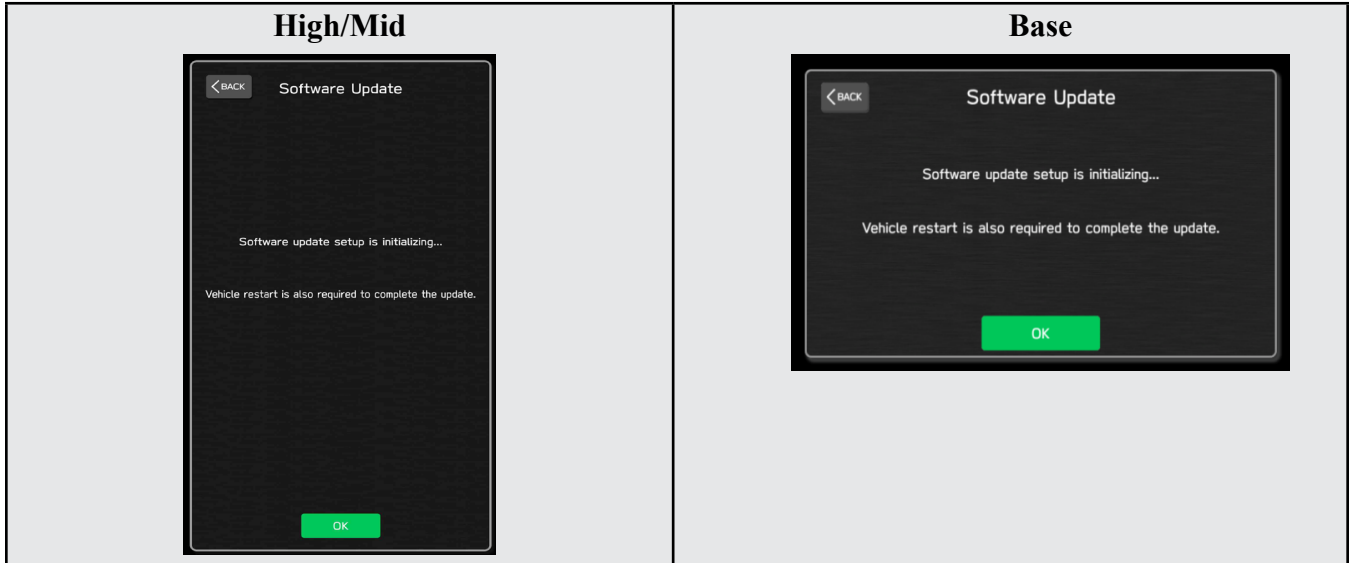
- The screens shown below will be displayed when the process completes.

| High/Mid | Base |
|---|---|
|  |  |
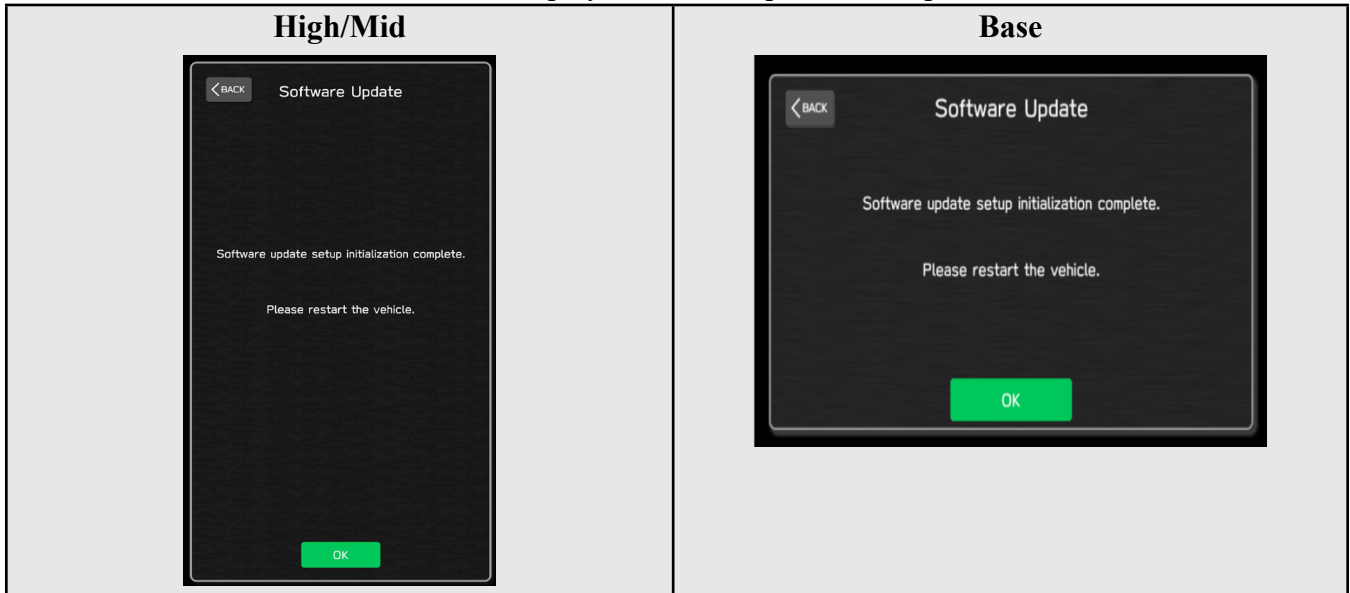
1. Turn the ignition OFF, open the driver's door, close the driver's door and **WAIT** for 3 or more minutes before proceeding further.

2. Open the driver's door again and either turn the ignition ON (if a charger is connected) or start the engine.

3. Go to Dealership Mode menu again (PRESS and HOLD the RIGHT-side temperature control buttons (both up and down) and press the Tune / Scroll knob 6 times then release all to display the Dealership Mode) and select Software Update as in **STEP 4c** beginning on pg. 11.

**IMPORTANT NOTE:** If this procedure is required, contact Techline as additional action may be necessary.

*Continued...*

# "APPENDIX B"

In case of retrying the software update after the first attempt of update fails.
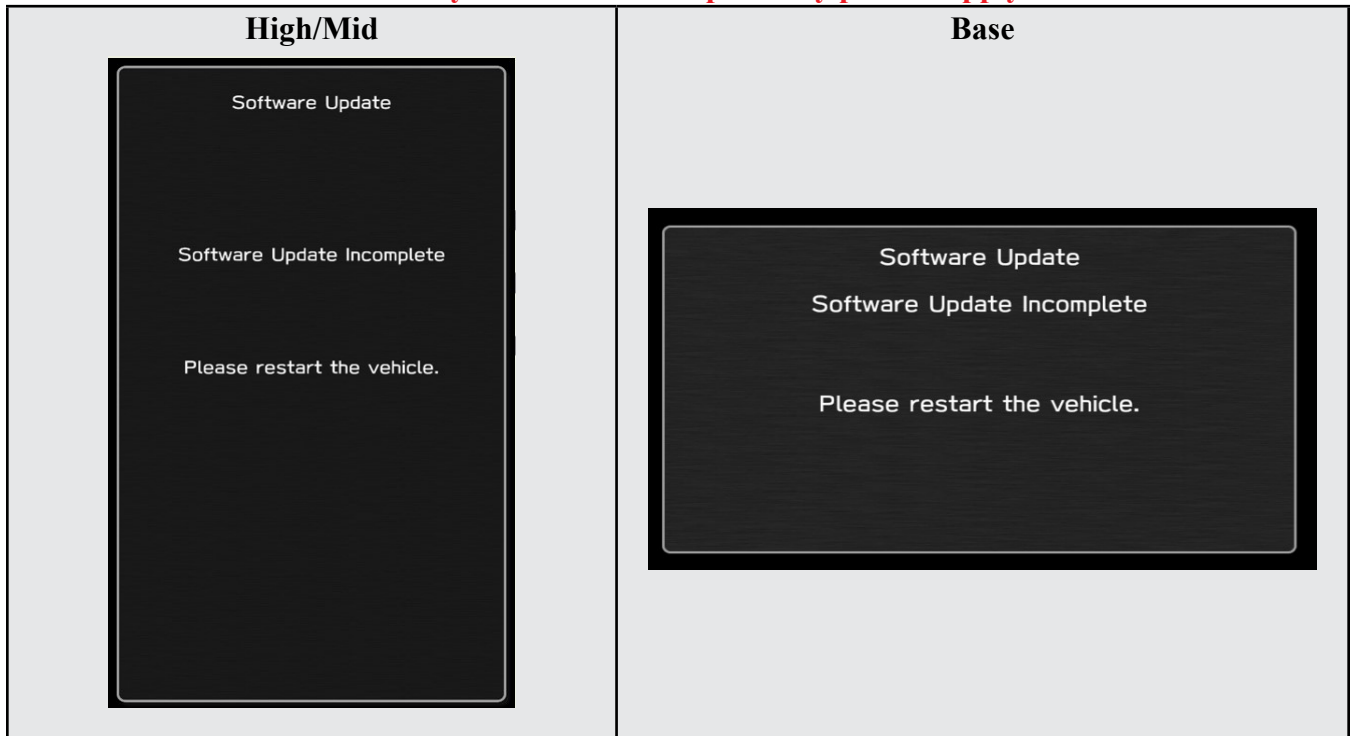
- If the first attempt of update fails with the message below, follow the steps described below 1-2 to 1-8 before retrying the software update.

**1-1. Select OK in the screen below**

| High/Mid | Base |
|---|---|
| Software Update<br><br>Software Update Incomplete<br><br><br>Please disconnect the USB device, check the software, and try again.<br><br>Vehicle restart is required to clear the error status.<br><br>OK | Software Update<br>Software Update Incomplete<br><br>Please disconnect the USB device, check the software, and try again.<br><br>Vehicle restart is required to clear the error status.<br><br>OK |

**1-2. Turn the ignition switch or the engine OFF, and turn it ON again.**
<span style="color:red">**Caution: Do not remove battery terminal and keep battery power supply.**</span>

| High/Mid | Base |
|---|---|
| Software Update<br><br><br>Software Update Incomplete<br><br><br>Please restart the vehicle. | Software Update<br>Software Update Incomplete<br><br>Please restart the vehicle. |

*Continued...*

**1-3. Select Software Update in the Dealership Mode diagnostics screen.**

| High/Mid | Base |
|---|---|
|  |  |
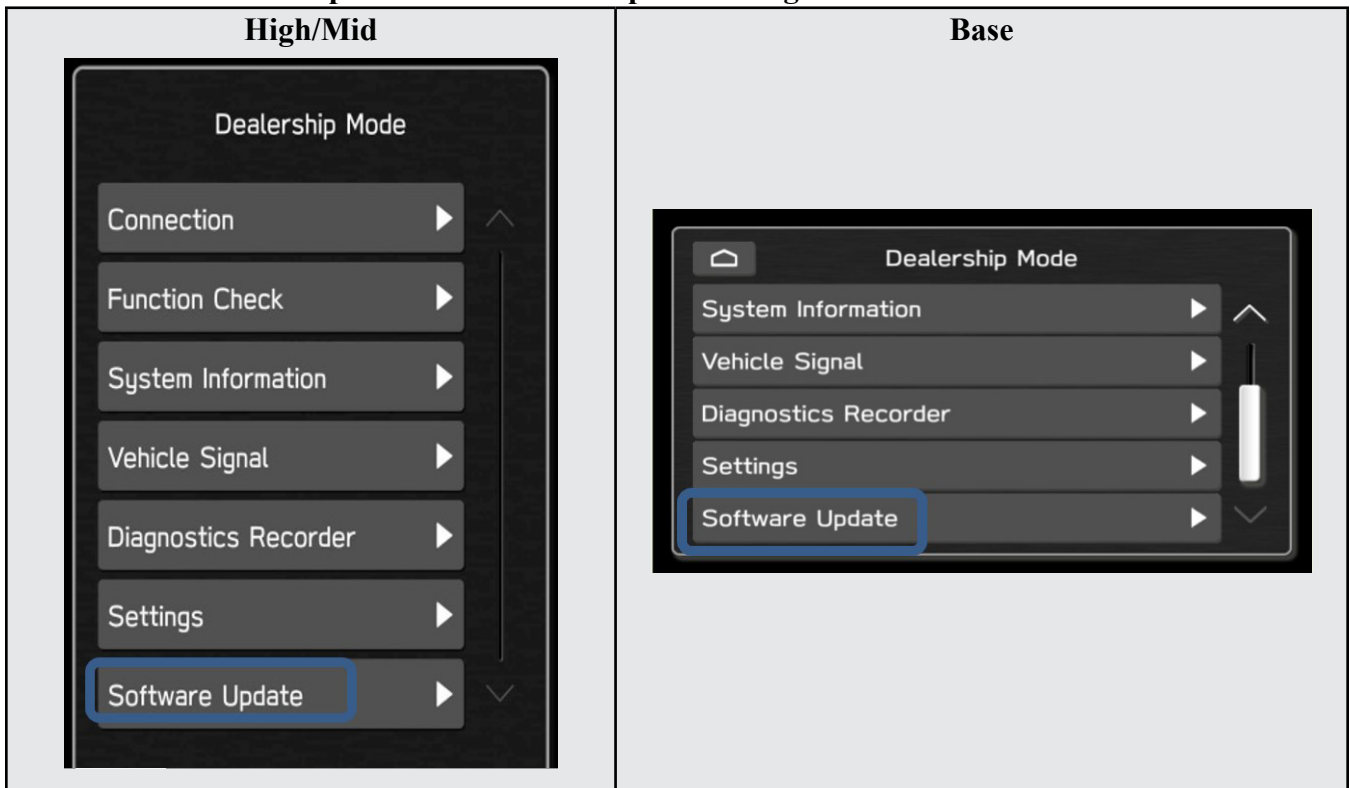
**1-4. When you see the screen below, wait for approx. 15 minutes until the initialization is complete**

| High/Mid | Base |
|---|---|
|  |  |
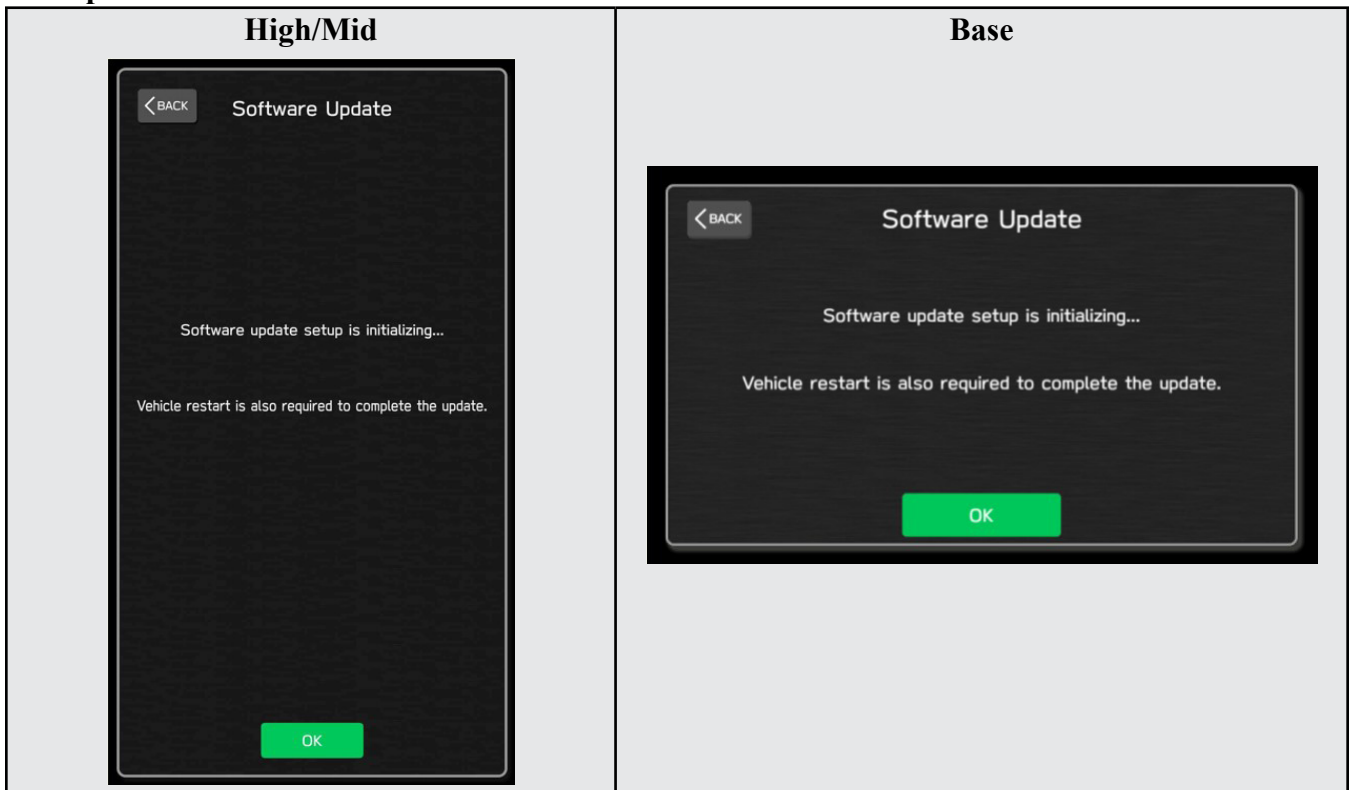
*Continued...*

**1-5. You will see the screen below when the initialization is complete.**

| High/Mid | Base |
|----------|------|
|  |  |
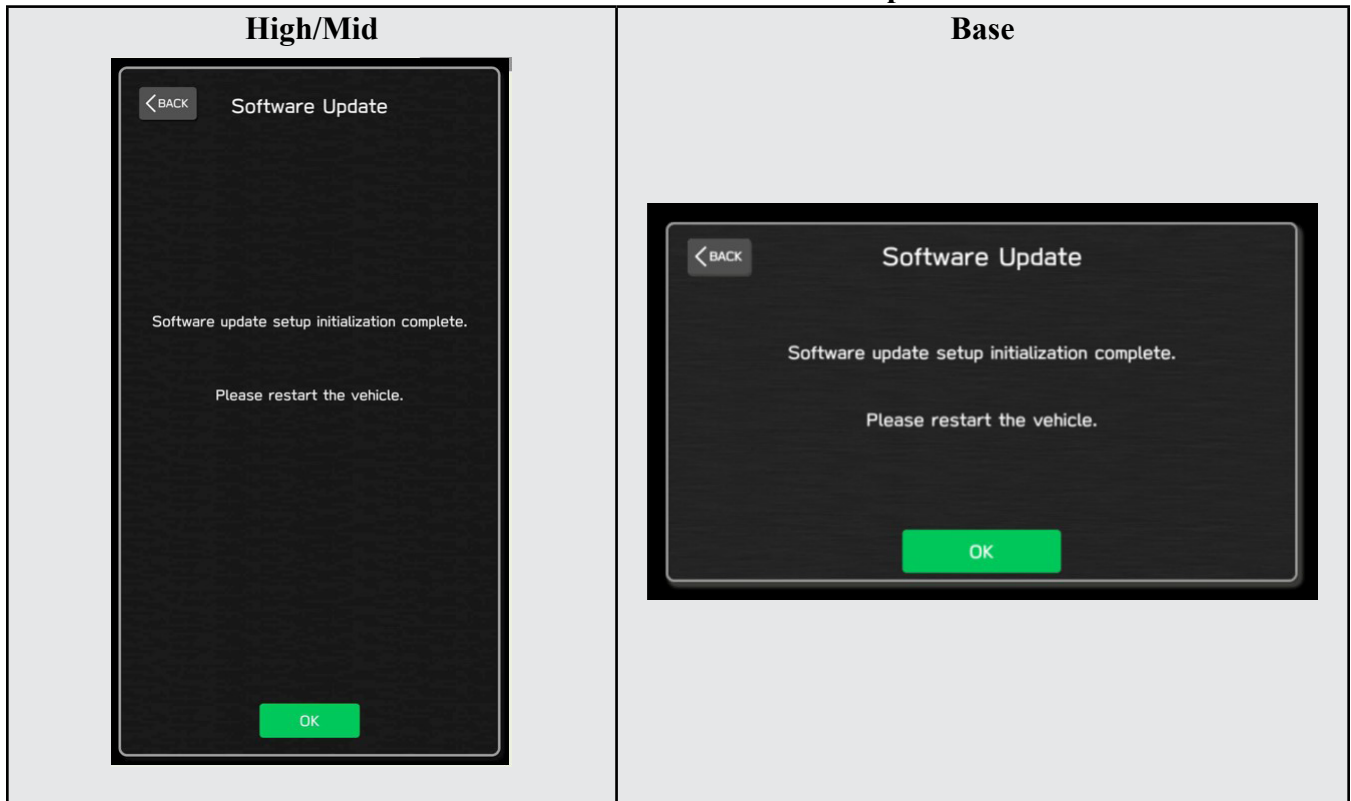
**1-6. Turn the ignition switch or the engine OFF, open the driver side door and close the door then wait for 3 minutes.**

**1-7. Open the driver side door then turn the ignition switch or the engine ON.**

**1-8. Go to Dealership Mode menu again (PRESS and HOLD the RIGHT-side temperature control buttons (both up and down) and press the Tune / Scroll knob 6 times then release all to display the Dealership Mode) and select Software Update as in STEP 4c beginning on pg. 11.**

*Continued...*

# "APPENDIX C"

**In case the Gracenote update popup screen appears or software initializing screen does not go away for more than 20 minutes, please perform steps 2-1 to 2-11.**

| High/Mid | Base |
|---|---|
|  |  |
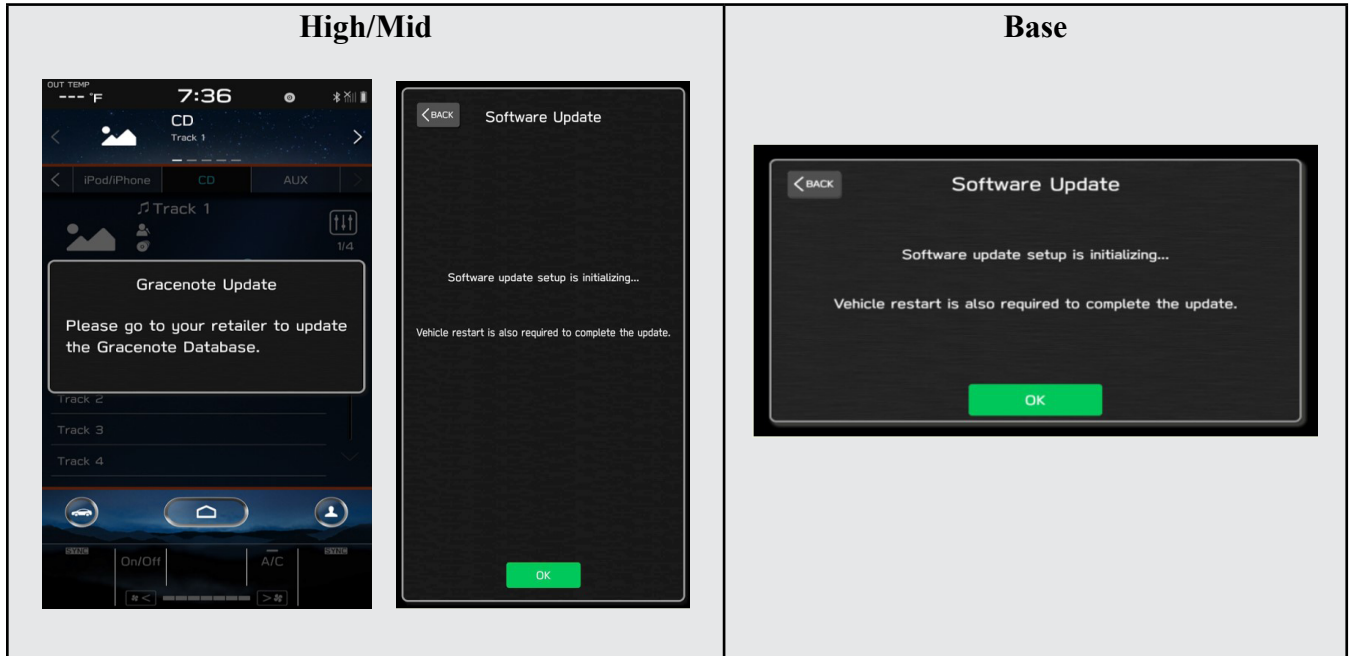
**2-1. Select "Settings" in the Dealership Mode diagnostics screen.**

| High/Mid | Base |
|---|---|
|  |  |

*Continued...*

## 2-2. Select "Memory Initialization"

| High/Mid | Base |
|---|---|
|  |  |
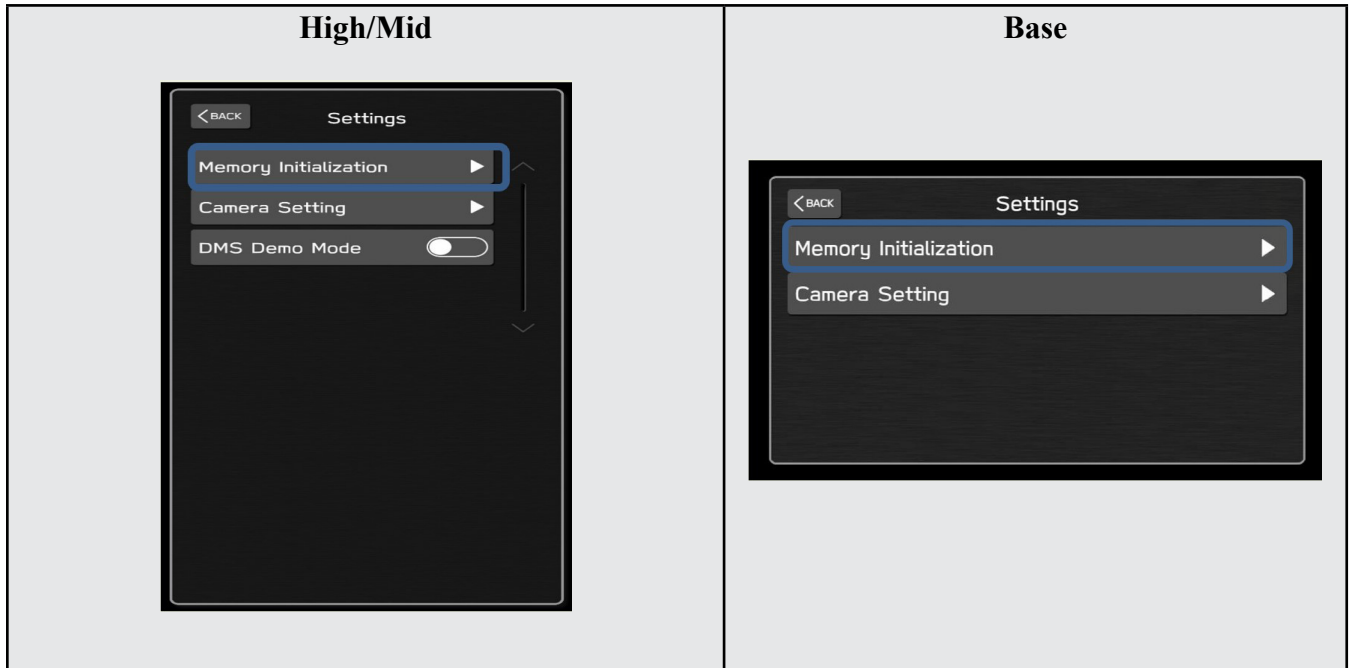
## 2-3. Select "OK"
**After Memory Initialization, all settings are reset to factory default.**

| High/Mid | Base |
|---|---|
|  |  |
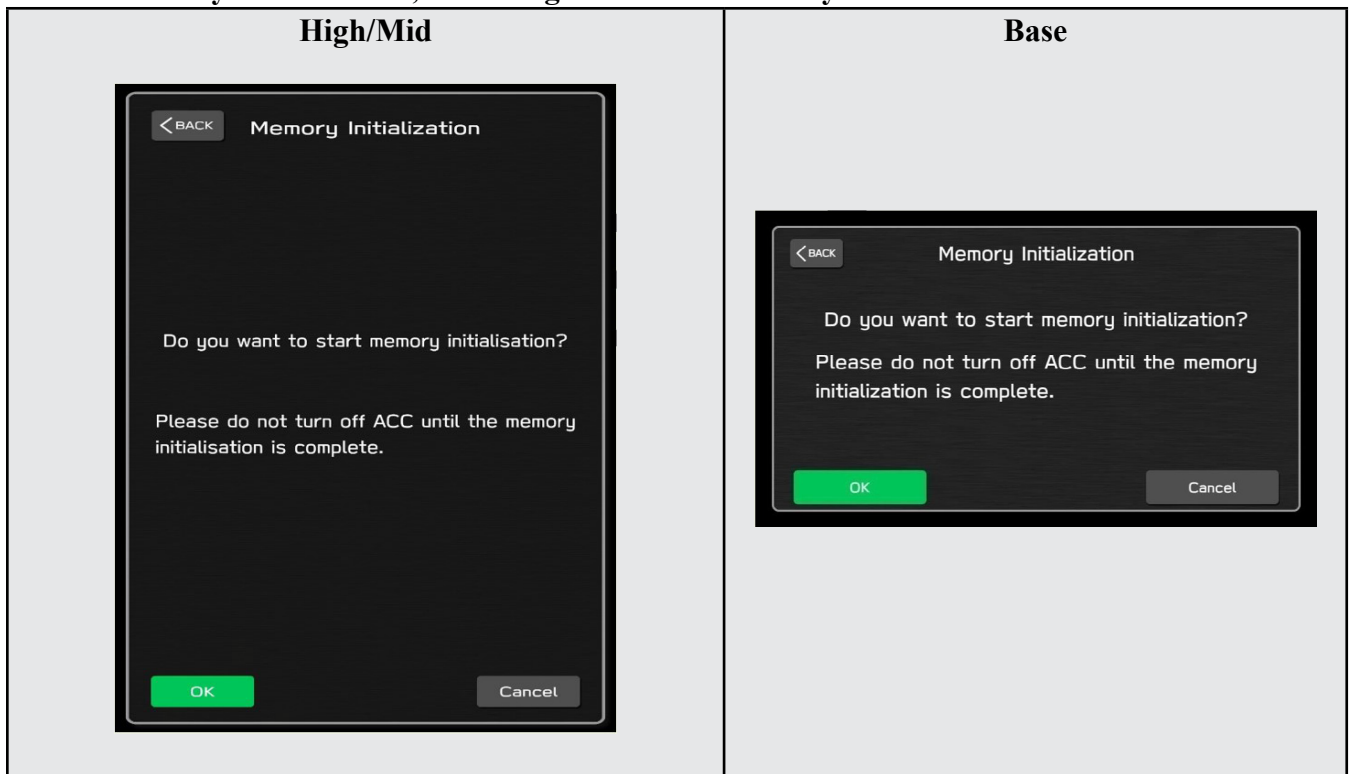
*Continued...*

**2-4. You will see the following screen**

| High/Mid | Base |
|---|---|
| Memory Initialization<br><br>Memory initializing...<br><br>Please do not turn off ACC until the memory initialization is complete.<br><br>When initialization is complete, it will restart automatically. | Memory Initialization<br><br>Memory initializing...<br>Please do not turn off ACC until the memory initialization is complete.<br><br>When initialization is complete, it will restart automatically. |

**2-5. After a few seconds, system restarts itself.**
**2-6. Select "Software Update" in the Dealership Mode diagnostics screen.**

| High/Mid | Base |
|---|---|
| Dealership Mode<br><br>Connection ▶<br>Function Check ▶<br>System Information ▶<br>Vehicle Signal ▶<br>Diagnostics Recorder ▶<br>Settings ▶<br>Software Update ▶ | Dealership Mode<br><br>System Information ▶<br>Vehicle Signal ▶<br>Diagnostics Recorder ▶<br>Settings ▶<br>Software Update ▶ |
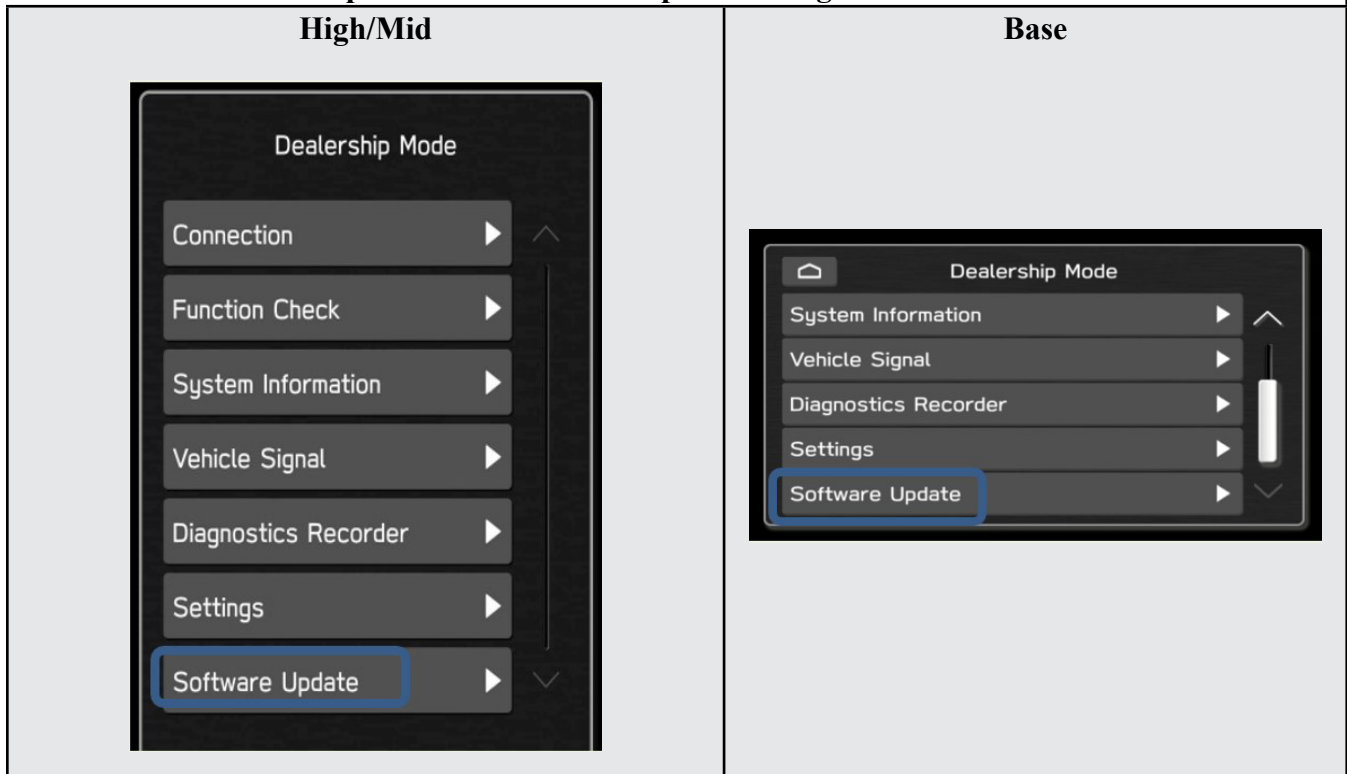
*Continued...*

**2-7. When you see the screen below, wait for about 15 minutes until the initialization is complete**

| High/Mid | Base |
|---|---|
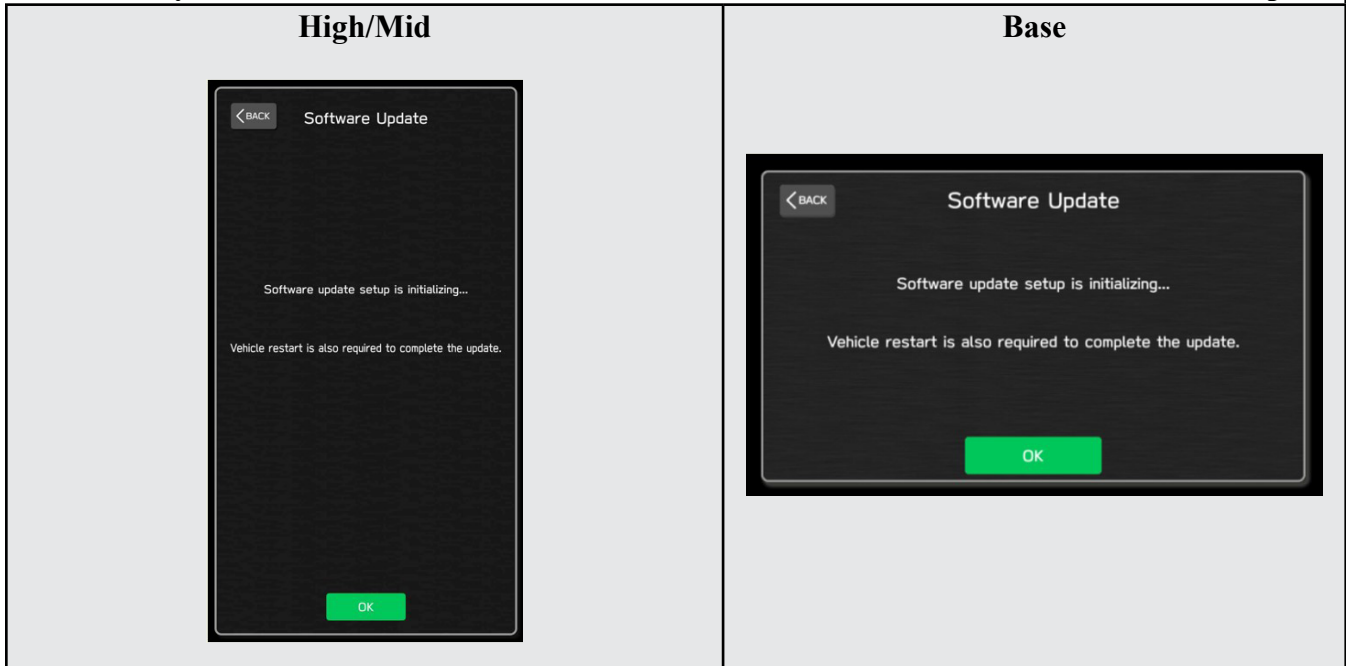
**2-8. You will see the screen below when the initialization is complete.**

| High/Mid | Base |
|---|---|
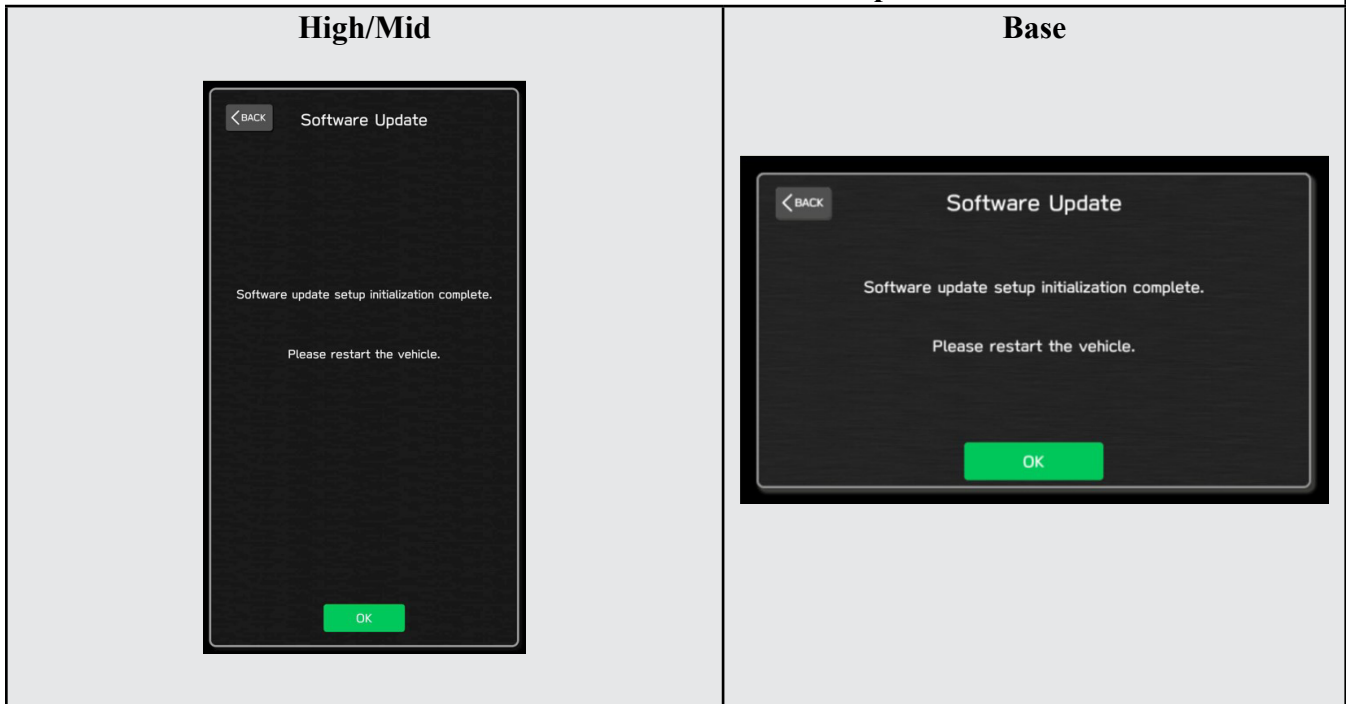
**2-9. Turn the ignition switch or engine OFF, open the driver side door and close the door then wait for 3 minutes.**

**2-10. Open the driver side door then turn the ignition swatch or engine ON.**

**2-11. Go to Dealership Mode menu again (PRESS and HOLD the RIGHT-side temperature control buttons (both up and down) and press the Tune / Scroll knob 6 times then release all to display the Dealership Mode) and select Software Update as in STEP 4c beginning on pg. 11.**

*Continued...*

# "APPENDIX D"

## Denso Gen 4 Software Update Timeline (*TSB Number: 15-261-20*)

| Update # | Model Year: | Version | Release Date: | NEW Software Version ID #: | Conditions Addressed: |
|---|---|---|---|---|---|
| 0 | 2020 | 0 | 9/1/2019 | F11GHM020-501/502 (High model software)<br>F11GMM020-501/502 (Mid model software)<br>F11GBM020-501/502 (Base model software) | - Start of Production for 20MY Outback/Legacy |
| 1 | 2020 | RC1912 | 2/24/2020 | F11GHM021-503 (High model software)<br>F11GMM021-503 (Mid model software)<br>F11GBM0021-503 (Base model software) | - See **"Conditions Addressed by Update #1"** as outlined in "Appendix C" below. |
| 2 | 2020 | RC2003 | 6/24/2020 | F11GHM022-504 (High model software)<br>F11GMM022-504 (Mid model software)<br>F11GBM022-504 (Base model software) | See **"Conditions Addressed by Update #2"** as outlined in "Appendix C" below. |
| 3 | 2020<br><br>2021 | RC2011 | 12/14/2020 | F11GHM042-380 (High model software)<br>F11GMM042-380 (Mid model software)<br>F11GBM032-280 (Base model software)<br><br>F31BHM040-980 (High model software)<br>F31BMM040-980 (Mid model software)<br>F31BBM030-880 (Base model software) | See **"Conditions Addressed by Update #3"** as outlined in "Appendix C" below |
| 4 | 2020<br><br>2021<br><br>2022<br><br>2022 Wilderness | RC2105 | 10/15/2021 | F11GHM072-582 (High model software)<br>F11GMM072-582 (Mid model software)<br>F11GBM072-582 (Base model software)<br><br>F31BHM071-182 (High model software)<br>F31BMM071-182 (Mid model software)<br>F31BBM071-182 (Base model software)<br><br>FB1SHM070-882 (High model software)<br>FB1SMM070-882 (Mid model software)<br>FB1SBM070-882 (Base model software)<br><br>F51XHM071-082 (High model software)<br>F51XMM071-082 (Mid model software) | See **"Conditions Addressed by Update #4"** as outlined in "Appendix C" below |
| 5 | 2020<br><br>2021<br><br>2022<br><br>2022 Wilderness | RC2111 | 1/28/202 | F11GHM112-680 (High model software)<br>F11GMM112-680 (Mid model software)<br>F11GBM112-680 (Base model software)<br><br>F31BHM111-280 (High model software)<br>F31BMM111-280 (Mid model software)<br>F31BBM111-280 (Base model software)<br><br>FB1SHM110-980 (High model software)<br>FB1SMM110-980 (Mid model software)<br>FB1SBM110-980 (Base model software)<br><br>F51XHM111-180 (High model software)<br>F51XMM111-180 (Mid model software) | See **"Conditions Addressed by Update #5"** as outlined in "Appendix E" below |
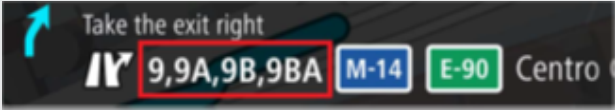
*Continued...*

| | | | | | |
|---|---|---|---|---|---|
| 6 | 2020 | | | F11GHM122-780 (High model software)<br>F11GMM122-780 (Mid model software)<br>F11GBM122-780 (Base model software) | See **"Conditions Addressed by Update #6"** as outlined in "Appendix E" below |
| | 2021 | | | F31BHM121-380 (High model software)<br>F31BMM121-380 (Mid model software)<br>F31BBM121-380 (Base model software) | |
| | 2022 | RC2202 | 4/22/2022 | FB1SHM121-080 (High model software)<br>FB1SMM121-080 (Mid model software)<br>FB1SBM121-080 (Base model software) | |
| | 2022 Wilderness | | | F51XHM121-280 (High model software)<br>F51XMM121-280 (Mid model software) | |
| 7 | 2020 | RC2208 | 10/28/2022 | F11GHM132-880 (High model software)<br>F11GMM132-880 (Mid model software)<br>F11GBM132-880 (Base model software) | See **"Conditions Addressed by Update #7"** as outlined in "Appendix E" below |
| | 2021 | RC2208 | 10/28/2022 | F31BHM131-480 (High model software)<br>F31BMM131-480 (Mid model software)<br>F31BBM131-480 (Base model software) | |
| | 2022 | RC2208 | 10/28/2022 | FB1SHM131-180 (High model software)<br>FB1SMM131-180 (Mid model software)<br>FB1SBM131-180 (Base model software) | |
| | 2022 Wilderness | RC2208 | 10/28/2022 | F51XHM131-380 (High model software)<br>F51XMM131-380 (Mid model software) | |
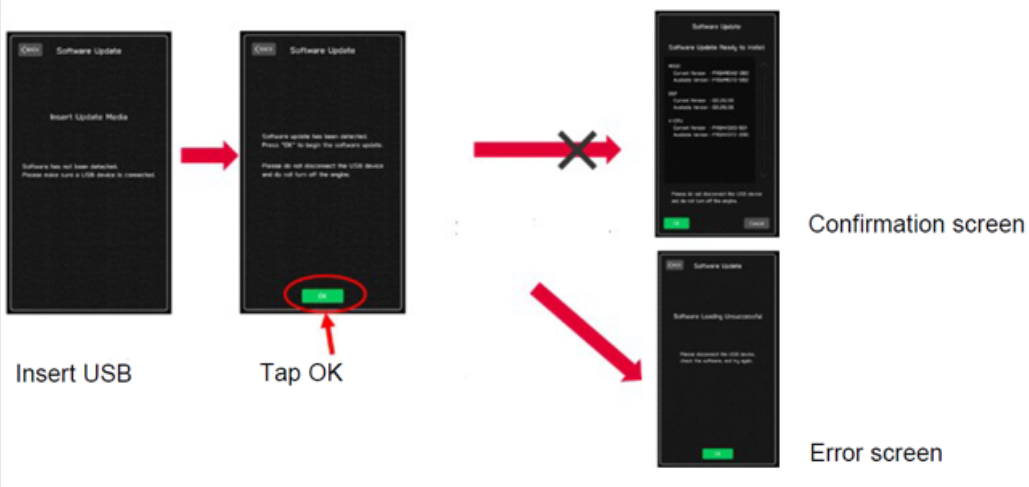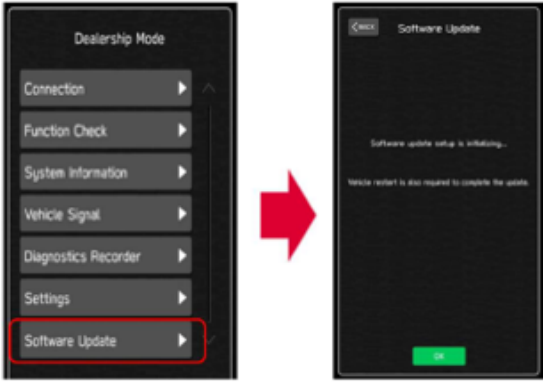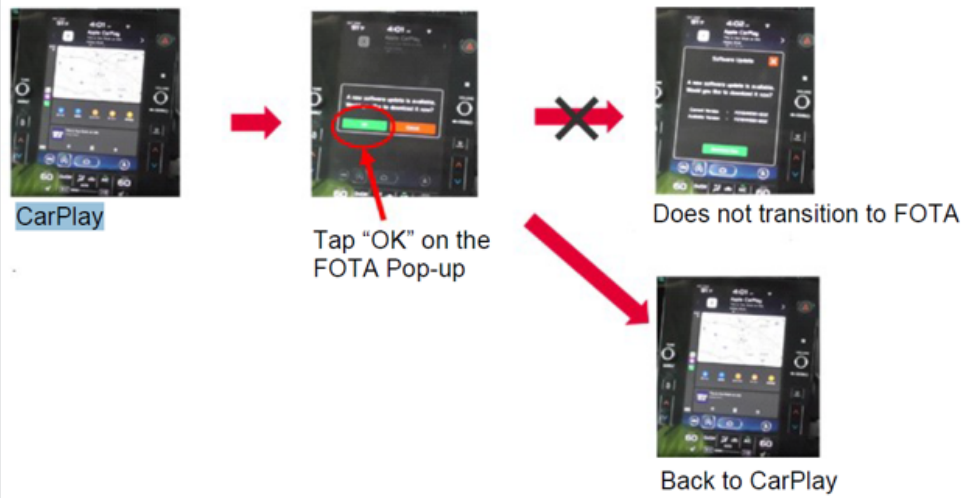
*Continued...*
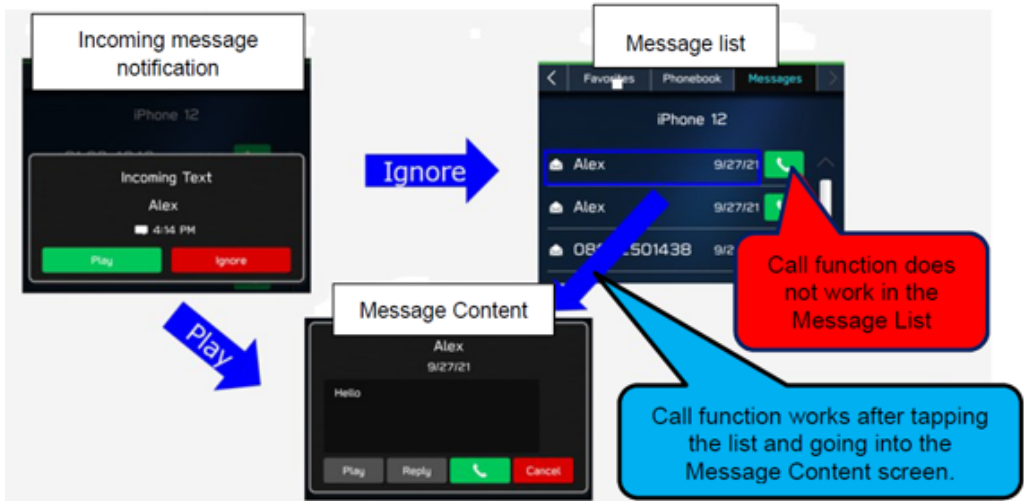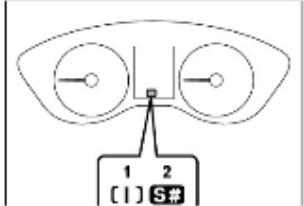
# "APPENDIX E"

**Symptoms Addressed By Update #7:**
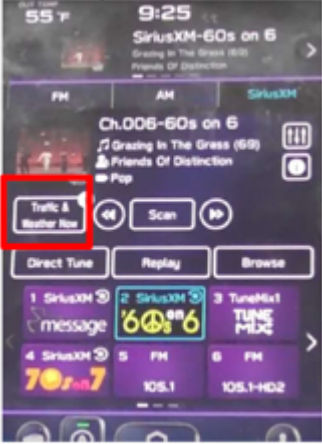
| Number | Symptoms to be Improved: |
|---|---|
| 1 | The CID stays black following reboot.  Reset doesn't always recover this condition. |
| 2 | The CID stays black or very dark even after the ignition switch is turned on due to back light malfunction. |
| 3 | When using CarPlay, the screen goes to black and/or CID restarts.  It occurs when the CID processor falls under irregularly high load conditions. |
| 4 | The CID restarts about 3 minutes after turning on the Ignition Switch.  It occurs when the CID processor falls under irregularly high load conditions. |
| 5 | System reboot due to application failure. Software robustness has been imporved to prevent CID and CCU from resetting whenever its individual function fails. |
| 6 | When the vehicle comes to a place on a highway where there are multiple exits with combinations of alphabets and numbers (see example below) the CID cannot process the information correctly for turn-byturn navigation and restarts.<br><br>Example:<br><br>Take the exit right<br>9,9A,9B,9BA  M-14  E-90  Centro |
| 7 | CID restarts when Navigation system is re-routing the route crossing the border of the states.<br><br>When the customer veered off navigated route and the re-routed route includes the roads across the boarder of states, the calculation is not properly processed and the CID restarts. |
| 8 | CID restarts, while it is connected to Wi-Fi.  It occurs when Wi-Fi signal includes illegible data. |
| 9 | CID restarts after the ignition switch is turned off and on again before the CID shuts off. |
| 10 | No functional response on touch screen in Radio mode even though the touch sound and visual reaction are confirmed. |
| 11 | Reprogramming process takes extensive time (40 minutes or more.)<br>After the ignition switch is turned off and on again, the combination meter display mode changes itself and shows the ECO gauge (Current fuel consumption/Driving range on remaining fuel.)  Both attribute to processing errors in CCU. |

*Continued...*
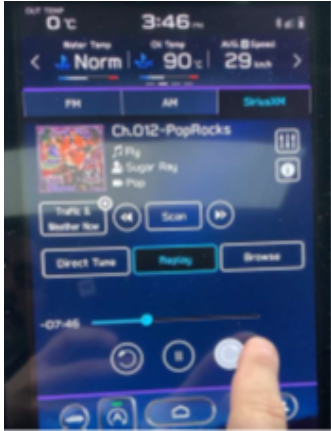
| Number | Symptoms to be Improved: |
|---|---|
| **12** | When conducting USB reprogramming, the screen transition to error screen instead of confirmation screen.<br><br><br><br>Insert USB     Tap OK     Confirmation screen     Error screen |
| **13** | When "Software Update" is selected in the Dealership Mode, the following initialization process does not end more than 20 minutes. *<br><br><br><br>**Note*** In case this USB update failure occurs, retry updating according to the instructions in "Appendix A |
| **14** | When the FOTA pop-up (new software availability notification) is displayed while the CarPlay is being used, the display comes back to CarPlay screen even if the customer tries to get into the FOTA screen.<br><br><br><br>CarPlay     Tap "OK" on the FOTA Pop-up     Does not transition to FOTA     Back to CarPlay |

| Number | Symptoms to be Improved: |
|--------|--------------------------|
| 15 | Call function does not work in the Message List (after ignoring the incoming message notification.). However, the call function can still be used after getting into the Message Content screen by tapping the message list. |
| |  |
| 16 | Message reading function of short mail does not resume and ends once it is interrupted by barge-in voices for other functions. |
| 17 | After the Ignition Switch is turned on, the SI-DRIVE indicator starts blinking and the derive mode cannot be changed. |
| |  |
| 18 | CarPlay does not work when the ignition switch is turned on immediately after the driver's door is opened with the iPhone (iPad) cable connected to the AUX TERMINAL (USB Hub.) |
| 19 | CarPlay drops off randomly after running without interruptions for an extended period of time. |
| 20 | Steering wheel control switches don't always work with Android Auto for audio streaming contol. |
| 21 | The Turn By Turn information is not displayed on the MID, when changing meter display modes with Steering wheel control switch, while using route navigation of Google Map with Android Auto. |
| 22 | Android Auto stops working after calling to one of the STARTLINK support functions, while there is an active navigation route with Google Map via Android Auto. |
| 23 | Soon after the cable has been removed from the AUX TERMINAL (USB Hub), icons on Home Screen stop functioning. |
| 24 | Phone Book is displayed in the order of the First Name even though the display setting was made in the order of Family Name. |

*Continued...*

| Number | Symptoms to be Improved: |
|---|---|
| 25 | No response when touching "Traffic & Weather Now (TWN)" on SMX screen.  |
| 26 | **SXM has blank screen and no sound when the SXM screen had been selected as audio source at the previous ignition off timing.**  No SXM Channel displayed |
| 27 | About 30 seconds after starting the SXM the operation is paused with loading screen and resume after another 30 seconds. This symptom occurs when the SXM screen had been selected as audio source at the previous ignition off timing.  Ignition Switch ON — SXM starts — Loading and No sound for 30 seconds — After another 30 seconds, SMX resumes |

*Continued...*

| Number | Symptoms to be Improved: |
|--------|--------------------------|
| 28 | SXM has blank screen and no sound when the audio source is change to SXM. |
| 29 | "Fast forward" does not work in SXM replay function. (Fast Rewind works.)  |
| 30 | The team logo is not displayed on Sports Flash screen when the SXM screen had been selected as audio source at the previous ignition off timing.  |
| 31 | The team logo is not displayed on Sports Flash screen when the SXM screen had been selected as audio source at the previous ignition off timing.  |
| 32 | No sound on Radio after changing to Radio screen. |

*Continued...*

| Number | Symptoms to be Improved: |
|--------|--------------------------|
| 33 | Sudden interruption of the audio playback from audio system and/or voice guidance of Navigation system. |
| 34 | The audio source change function and all icons become inoperative temporarily, after the ignition turned off and on again while playing audio source. |
| 35 | HD Radio sub channel cannot be played after selecting a HD Radio station from the pre-set stations and selecting the HD sub channel 2 even though the HD radio information is correctly displayed. |

**List of New Functions and Enhancements Included in Update #7:**
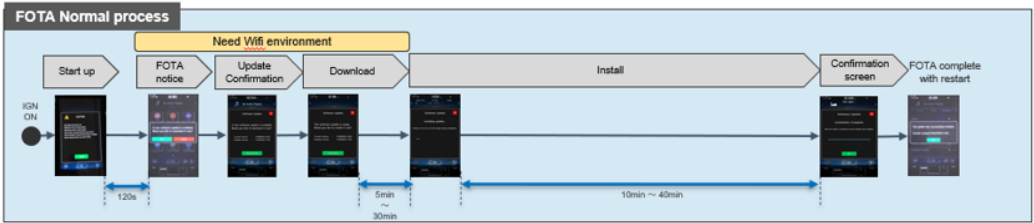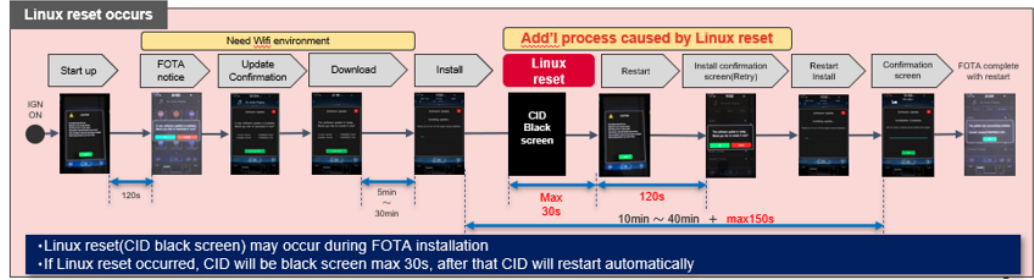
| Number | New Functions and Enhancements |
|--------|-------------------------------|
| 1 | Icons of home screen change to those of the US specifications even though the original specification is not of the US. |
| 2 | Two ways of MOTA operations, i.e., by connect CCM to Wi-Fi or by transferring the downloaded map data to CCM via smart phone are executed simultaneously by error. |
| 3 | "One of the Pop-up Error Messages displayed during the FOTA operation in case of weak Wi-Fi signal is not intuitive. Even if the customer tap "OK," it does not transit to another screen.<br><br><br><br>As the improvement for this inconvenience, the message is changed so that the customer finds the reason why the FOTA operation has been paused.  Also a "Resume" button is prepared so that the customer can do the rest of operations after necessary action (moving the vehicle to another place with better Wi-Fi connection\*\*, or tethering the CP1 to a mobile phone, etc.)<br><br>**Note\*\***  The FOTA operation can be paused when the Wi-Fi indicator at the upper right corner of the CID is not in "Good" or "Excellent" as shown below."<br><br> |
| 4 | To prevent the overall CID system (CCU) from being reset whenever its individual function fails, the robustness of the software has been improved. |
| 5 | CD returns to CD deck too fast to pick it out after ejection button has been pressed. As the countermeasure, the pausing time is extended to ease the operation. |
| 6 | Past DTC stored in the CCM cannot be captured by SSM when new current DTC is detected. Both DTC's can be captured by SSM after letting the system into sleep mode and turning the Ignition Switch on again. |

*Continued...*

| Number | New Functions and Enhancements |
|:---:|:---|
| 7 | Music in the different folder in a USB stick can be selected by Track-UP/Down operation. |
| 8 | Music in multiple folders in a USB stick can now be played continuously whereas they could not be played unles they were in the root area of the USB stick. |
| 9 | In conjunction with the specification improvement described in item 8, "Repeat All" is added to the play mode selection menu. |

| Improved | Current |
|:---|:---|
| Repeat All <New> | – |
| Repeat current album/folder | Repeat current album/folder |
| Repeat current track | Repeat current track |
| Cancel repeat | Cancel repeat |

*Continued...*

**Symptoms Addressed By Update #6:**

| Number | Symptoms to be Improved: |
|---|---|
| 1 | System restarts itself during FOTA (Firmware Over The Air) update. FOTA operation is conducted in two processes: downloading (from the server to the Cockpit Control Unit via Wi-Fi) and installation (inside the Cockpit Control Unit). During the FOTA operation, after the new software has been downloaded to the Cockpit Control Unit (CCU) customer is to push "Install Now" on the Center Information Display (CID) to start installation of the software.  However, in rare case, the CCU restarts itself\* during installation.  **Note\*** Even if this symptom occurs, after approximately 2 minutes, the system resumes, and the CID comes back to the below screen. Customer can then push the "Install Now" to proceed with the installation.  |

**Symptoms Addressed By Update #5:**

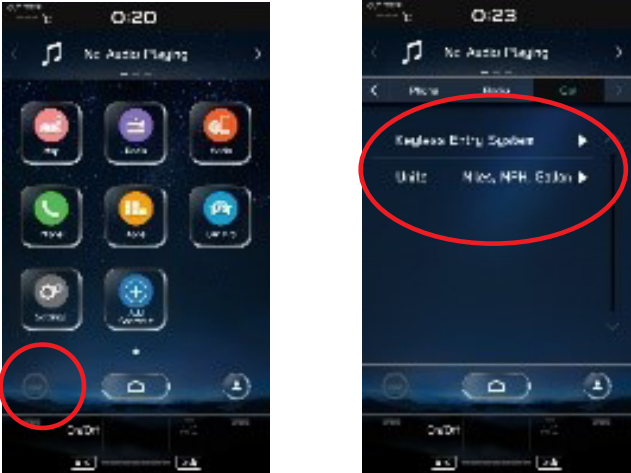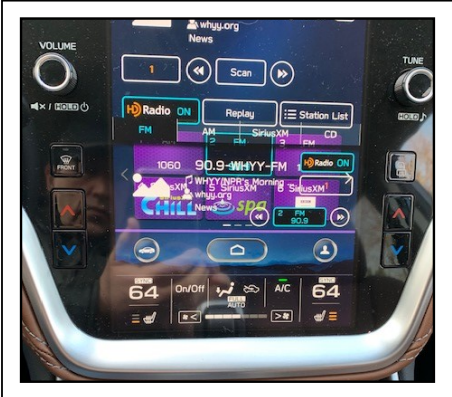| Number | Symptoms to be Improved: |
|---|---|
| 1 | **No image on CID (Center Information Display) or Black display condition followed by CP1 reboot resulting from CCU (Cockpit Control Unit) internal communication error or due to listed below actions:**<br><br>• CP1 forced reboot is performed by pressing the "Vol" button continuously or by performing factory reset operation<br><br>• Loss of Bluetooth or Wi-Fi connection<br><br>• Application crash during Bluetooth audio streaming<br><br>• Launching CarPlay or Android Auto application, after the smart phone is connected<br><br>• Removing USB connection between the iPhone's and CP1 during active CarPlay session<br><br>• STARLINK application crash<br><br>• Performing USB map update using Bluetooth connection with a smart phone carrying STARLINK Companion App map update data<br><br>• When ACC is turned OFF and ON, while STARLINK Companion App map update is being performed<br><br>• Navigation application crash<br><br>• "Service Appointment Scheduler" application crash due to a communication error between DCM and CCM<br><br>• Re-inserting USB Flash drive within 2-3 seconds<br><br>• Removing USB Flash drive while playing back the data from the USB Flash drive<br><br>• CID display loses images (black screen) and reboots itself after ACC (or Ignition) is turned OFF and ON. |
| 2 | **No image on CID (Center Information Display) or Black display condition and HVAC function becomes inoperative due to listed below actions:**<br><br>• Failure to complete CP1 software update via USB port *<br><br>• After the failure, Ignition Switch is turned off and on then an initializing process is started with "Software update setup is initialing……" message on the display, which requires about 15minutes to complete. During this message is displayed, power supply of CCM is cut off like disconnecting battery terminals.<br><br>• Performing CP1 software update via USB port using the same software version<br><br>**Note\*** In case this USB update failure occurs, retry updating according to the instructions in "Appendix B " |
| 3 | Intermittent loss of Bluetooth connection |

*Continued...*

| Number | Symptoms to be Improved: |
|--------|--------------------------|
| 4 | "Software update setup is initializing ..." message displayed for an extended period of time (over 30minutes), after a follow-up attempt for CP1 software update via USB port is performed to recover a failure  ** <br><br> **Note\*\*** In case this USB update failure occurs, retry updating according to the instructions in "Appendix C" |
| 5 | Pop-up message "Please go to your retailer to update the Gracenote Database" appears every time CP1 system is rebooted due to interruption of CP1 software update via USB port (ACC OFF or BATT power remove etc.) *** <br><br> **Note\*\*\*** In case this USB update failure occurs, retry updating according to the instructions in "Appendix C" |

**Symptoms Addressed By Update #4:**

| Number | Symptoms to be Improved: |
|--------|--------------------------|
| 1 | Momentary Black Display; The CID (Center Information Display) and in rare case together with the LCD in the combination meters go blank (black) momentarily.  This condition might be followed by CP1 reboot. <br> **NOTE:** Rear View Camera function is not impacted by this condition. |
| 2 | Blank display when connecting CP1 to Wi-Fi network with long name (over 32 characters). |
| 3 | While using Apple CarPlay, "SUBARU" is displayed on the iPhone Setting menu instead of vehicle name <LEGACY/OUTBACK>. <br><br>  |

*Continued...*

| Number | Symptoms to be Improved: |
|:---:|:---|
| 4 | Vehicle Setting Icon in <Home> menu is grayed out.<br>Menu list in the "Car" tab in the Setting Menu is not displayed.<br><br> |
| 5 | CarPlay stopped working after hanging up a hands-free phone call. |
| 6 | CID shows multiple images simultaneously.<br><br> |
| 7 | CID shows multiple images simultaneously. |
| 8 | CID freezes/locks after startup.<br>**NOTE:** Rear View Camera function is not impacted by this condition. |
| 9 | Move (push ▲▼ repeatedly) and Select in Map list, then freeze and restart itself. |
| 10 | The CID (Center Information Display) freezes/locks during Wi-Fi configuration |
| 11 | Map freezes while Navigation guidance is being provided. |
| 12 | Navigation operation restarts while driving. |
| 13 | Reboot in Factory diag. mode, when removing USB drive or changing to other USB drive. |
| 14 | CP1 system and combination meter reboot again following a forced reboot, when smart phone connected via USB port. |
| 15 | CP1 system reboots following ignition OFF and ON |
| 16 | Switching to Navigation demo mode after CP1 reboots during Bluetooth pairing |
| 17 | CP1 system reboots, while selecting or using Map feature to configure the driving route |
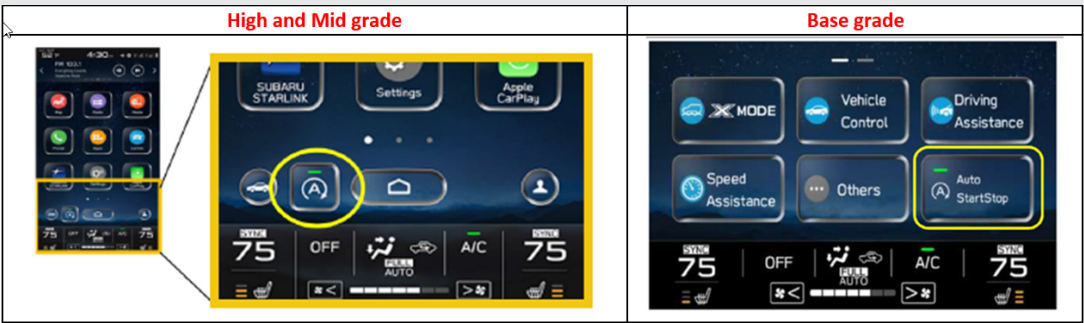
*Continued...*

| Number | Symptoms to be Improved: |
|--------|--------------------------|
| 18 | Android Auto does not function. "Android Auto is Disconnected" is displayed with Launch Error message. |
| 19 | CarPlay does not function with USB connection. |
| 20 | Sound is muted after hanging up a hands-free phone call. |
| 21 | Ring tones and the voice from the other end on the hands-free phone call cannot be heard |
| 22 | No sound in SXM, following low or dead battery. |
| 23 | Navigation guidance directions are not spoken. |
| 24 | When iPhone phone book transfer fails, system repeats Bluetooth disconnection and connection. |
| 25 | <Media> button does not function in <Home> menu. |
| 26 | Vehicle location is not displayed correctly in Navigation screen. |
| 27 | Radio station moves unexpectedly due to momentary flick or brush of the touch screen. |
| 28 | Temperature setting cannot be controlled by Voice Recognition in Canadian (C*) specification. |
| 29 | Preset outline is not shown following station selection using steering switch <br>Correct display     Incorrect display |
| 30 | Others. Improvement in button design & location and Icon display pattern, etc. |
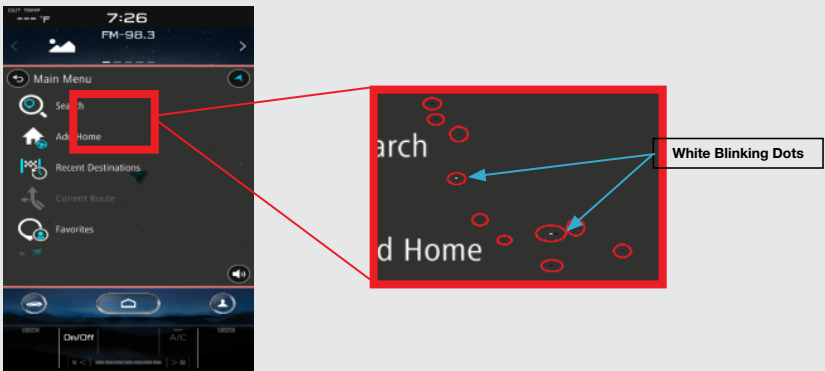
**Symptoms Addressed By Update #3:**
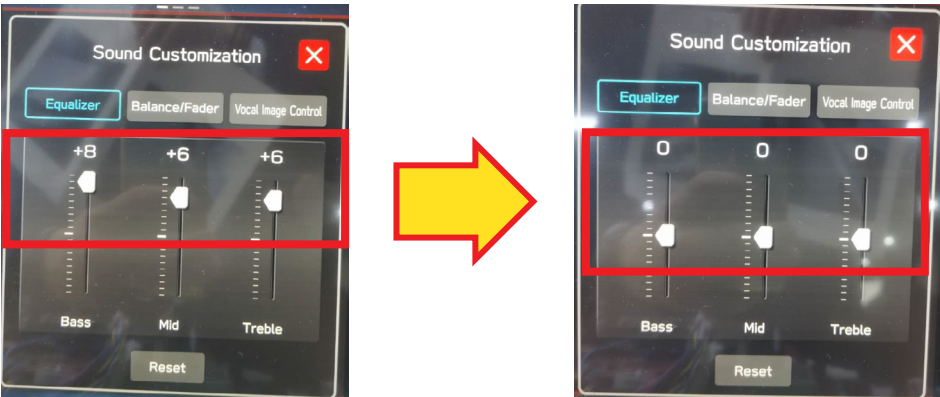
| Number | Symptoms to be Improved: |
|--------|--------------------------|
| 1 | Enable Firmware Over The Air (FOTA) functionality |
| 2 | Clarification of the post-FOTA procedure instructions required to complete the update. The screenshot below will appear and explain what must be done to complete the update installation.<br><br>**Software Update Installation Complete**<br>To complete the update, your vehicle and STARLINK system must be fully shut down. Please turn off the engine and exit the vehicle. Lock doors, and let the vehicle sit for at least 5 minutes. It is recommended to walk at least 10 feet from the vehicle to prevent key fob interference. After waiting at least 5 minutes, enter the vehicle and turn the engine on. An "Update Successful" message will appear after a few moments. The update will then be complete. |

*Continued...*

| Number | Symptoms to be Improved: |
|---|---|
| 3 | Currently, the microphone level indication is incorrect. The indicator level has been corrected. More microphone level indication information is included in TSB **15-275-20**. |
| 4 | A reduced (low) volume (-6db) concern during handsfree conversation when using CarPlay has been addressed to make the volume level consistent. |
| 5 | Voice recognition (VR) has been enhanced to improve recognition of short words (e.g. YES). |
| 6 | The program has been corrected to prevent repeated rebooting and system freeze-up immediately after activation of Android Auto. |
| 7 | Eliminate CP1 MOTA update error message "Something went wrong. The system is unable to install any map updates. Contact your dealer for more information." |
| 8 | The Auto Stop-Start On/Off function button has been moved from the bottom to top layer of the system for easier use. A screenshot of how the button will appear is shown below.  |

**Symptoms Addressed By Update #2:**

| Symptom # | Description of Symptom: |
|---|---|
| 1 | Several minutes after Engine start, the Center Information Display (CID) reboots. |
| 2 | After an extended period of usage, some white blinking dots appear on the display.  |

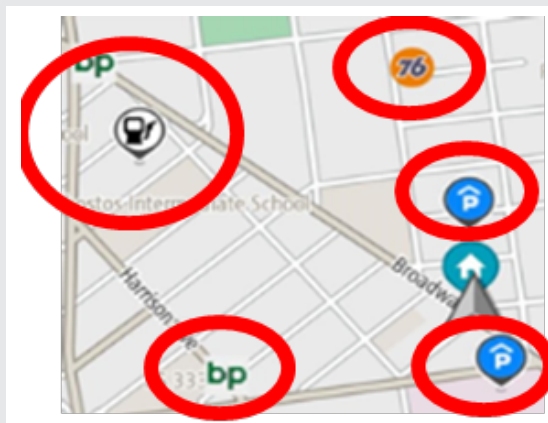| Symptom # | Description of Symptom: |
|---|---|
| 3 | The display screen freezes or becomes blank (black screen) after a CD is inserted. This symptom occurs when a CD with over 99 characters of Artist Name Data is used. |
| 4 | CID reboots. In a case where the system was shut down with SXM selected as the audio source, the CID reboots after the next start up. |
| 5 | SXM does not resume playing instantly. In a case where the system was shut down with SXM selected as the audio source, SXM takes more than 20 seconds to resume play after the opening screen is displayed (when it normally only takes approximately 5 seconds.) |
| 6 | Radio station does not resume playing (no audio output). In a case where the system was shut down with Radio being selected as the audio source, audio output does not resume at the next start up. Once the audio source is changed to SXM, SXM plays normally but, if the source is changed back to the Radio, audio does not return and the radio display is also lost. |
| 7 | Customer-selected Equalizer settings are lost. Equalizer returns to the default settings after ignition switch is turned OFF and back ON.  |
| 8 | The media source cannot be changed. Even if <Radio> or <Media> is selected, the media source does not change. In addition, Voice Recognition stops functioning at the same time. This condition occurs when the volume setting is continuously changed while the CID is booting. |
| 9 | In a case where the system was shut down while the Navigation map screen was being displayed, the display goes blank (black screen) soon after the Disclaimer screen is displayed after restarting. |
| 10 | CID reboots repeatedly after setting a destination using the Navigation system. |
| 11 | CID reboots while using the Pandora application via CarPlay. |
| 12 | Bluetooth connection cannot be reestablished when using certain smart phones. When using Android Auto on certain smartphones, a Bluetooth connection cannot be reestablished automatically once it has been disconnected. |

*Continued...*

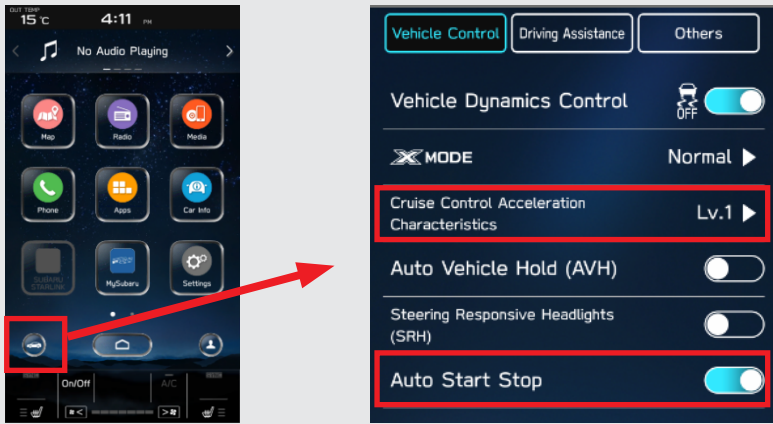| Symptom # | Description of Symptom: |
|---|---|
| 13 | CarPlay connection cannot be established. When connecting an iPhone via USB, "CarPlay Unavailable" is displayed and CarPlay does work. |
| 14 | The HOME screen goes blank. When the screen is switched from Camera mode to HOME, no icons are displayed as shown below.<br> |
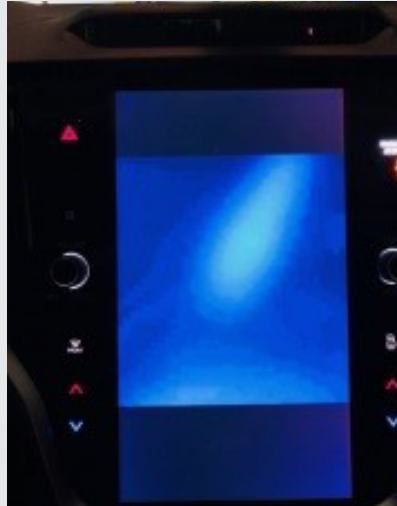
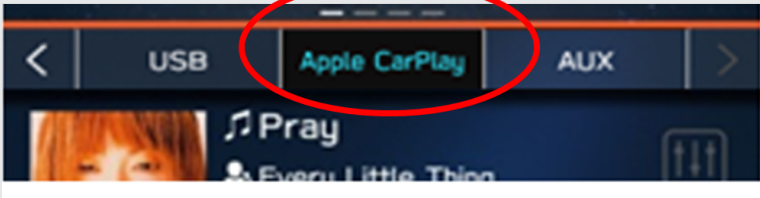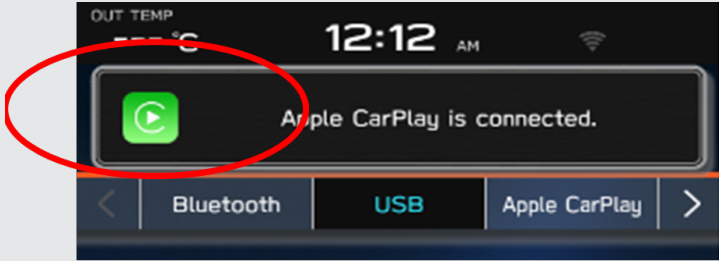**List of New Functions and Enhancements Included in Update #2:**

| Number | New Functions and Improvements: |
|---|---|
| 1 | The previously selected customized map orientation setting is memorized even after ignition OFF / ON.  If the customer changes the map orientation setting, the change is automatically retained. |
| 2 | Pin display of POI is now available.<br> |
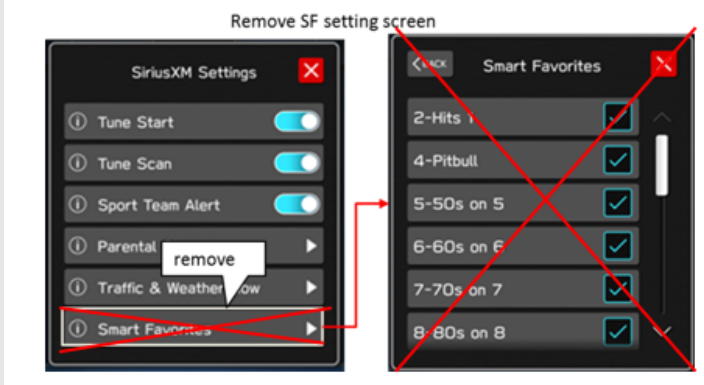
*Continued...*

| Number | New Functions and Improvements: |
|---|---|
| 3 | In the 2D and 3D HU display mode, the vehicle position icon on the Navigation map is easier to identify:<br><br>    • Icon size increased from 7mm to 9mm.<br><br>    • Icon color has been changed to Dark Blue.<br><br>    • Icon position (when using route guidance) stays at the same position as when not using route guidance.<br><br>    • Icon has been re-positioned 9mm higher on the display. |
| 4 | The ISS (Auto Start Stop) button has been moved to the upper layer in the Car Setting menu. By touching the "Car Setting" icon, the Auto Start Stop and Cruise Control Acceleration Characteristics menus can be accessed immediately, whereas selecting "Others" in the Car Setting screen was required to access these menus.<br><br> |
| 5 | HVAC control buttons of base grade are now larger and easier to see.<br><br> |
| 6 | Time zone and Summertime are now automatically selected.<br>Default setting of clock setting is Auto. The time zone is changed according to the vehicle location, and Summertime is automatically set according to the calendar. |
| 7 | Clock setting can be selected by touching the clock display in the status bar. |
| 8 | AlbumArt is displayed when music is played and now continues to be displayed when the vehicle is in motion. |

*Continued...*

| Number | New Functions and Improvements: |
|--------|----------------------------------|
| 9 | CarPlay screen is now expanded from half size (horizontal) to full screen (vertical).  |
| 10 | When using CarPlay or Android Auto, a "CarPlay" or "Android Auto" tab will now appear on the Media tab bar. By selecting this tab, music data and metadata can be browsed.  |
| 11 | When using route guidance with CarPlay navigation, <Turn by Turn> descriptions will be displayed both in the Information bar of CID and in the MID located in the center of the combination meter. |
| 12 | By touching the new CarPlay button located at the top of the CID, the CarPlay menu can be accessed easily.  |
| 13 | In a case where the system is shut down while is CarPlay connected, the system automatically resumes the connection at the next start up. |
| 14 | <Siri> Voice Recognition function is ready to use faster than with previous version. |
| 15 | Gracenote Media Database updated to November 2019. |

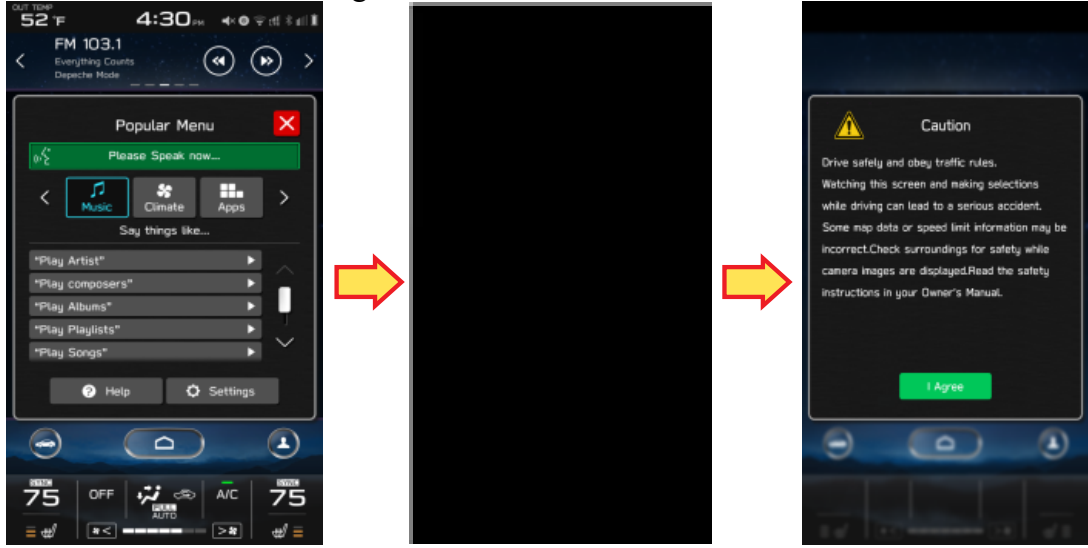| Number | New Functions and Improvements: |
|---|---|
| 16 | 1. Sirius XM Smart Favorites menu has been removed from SiriusXM Settings <br><br>  <br><br> Remove SF setting screen <br><br> 2. Going forward first 10 set Sirius XM presets are now smart favorites by default <br><br> 3. Smart favorite channel has "star" added to the preset button <br><br>  <br><br> Indicator Added |
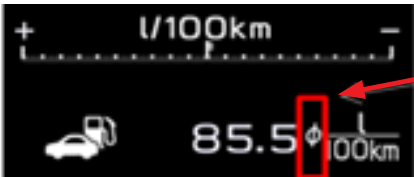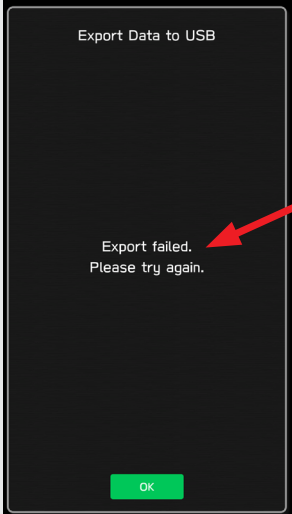
**Conditions Addressed By Update #1:**

| Symptom # | Description of Symptom: |
|---|---|
| 1 | The CP1 display and/or center Combination Meter display freezes. <br> No response from touch screen or voice guidance. After switching the ignition off and opening the driver's door, the system does not recover**. <br><br>  <br><br> Display Freezes <br><br> Touch Buttons Unresponsive <br><br> **NOTE:** After switching the ignition off and leaving the driver's door open more than 70 seconds, the system *may* recover after switching the ignition back on. |

*Continued...*

| Symptom # | Description of Symptom: |
|---|---|
| 2 | Delayed response of rear view camera guide lines.<br>When the rear view camera is activated and the steering wheel is turned, there is a delay before the steering-responsive guide lines respond to the steering wheel input.<br><br> |
| 3 | Fuel consumption display has unnecessary 'Φ' mark when changing mileage unit to Km.<br><br> |
| 4 | Diagnostics Recorder Data cannot be exported to the USB memory device. When the diagnostic log data is being downloaded (by selecting: Dealership Menu > Diagnostics Recorder > Export Data to USB), it fails after the progress bar reaches almost 90% with an error message of Export failed. Please try again.<br><br> |

*Continued...*

| Symptom # | Description of Symptom: |
|---|---|
| 5 | When using Voice Recognition to search for a 'Nearby POI' (Point of Interest) in Canada with FRENCH language selected, the CP1 display turns black and displays a Caution / disclaimer message. <br><br>  <br> **Voice Recognition**     **Black Screen**     **Caution / Disclaimer Message** |