ATTENTION.							
<u>attention:</u>	IMPORTANT - AII						1
GENERAL MANAGER	Service Personnel						
PARTS MANAGER	Should Read and Initial in the boxes						
CLAIMS PERSONNEL	provided, right.						
SERVICE MANAGER	© 2020 Subaru of	Δmerica	n Inc /	All riahts	s reserv	ed	



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

REVISED: 01/12/23

DATE: 03/10/20

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.

PART INFORMATION:

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





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 <u>NTFS</u> 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 <u>NTFS</u>. The flash drive must be formatted for <u>NTFS</u>. 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



• 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.



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

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

MY	Carline	Trim/Grade	Older Software Versions	Latest Software Version	
20MY	Outback/ Legacy	BASE	020-501 020-502 021-503 022-504 032-280 072-582 112-680 122-780	132-880	
			MID	020-501 020-502 021-503 022-504 032-280 072-582 112-680 122-780 122-370 122-570 122-670	132-880
21MY		BASE	008-500 030-880 071-182 111-280 121-380	131-480	
	Outback/ Legacy		MID	008-500 030-880 071-182 111-280 121-380 120-970 121-170 121-270	131-480
				HIGH	008-500 030-880 071-182 111-280 121-380 120-970 121-170 121-270

MY	Carline	Trim/Grade	Older Software Versions	Latest Software Version	
22MY	Outback/ Legacy	BASE	060-781 070-882 110-980 121-380	131-180	
			MID	060-781 070-882 110-980 121-080 120-770 120-870 120-970	131-180
		HIGH	060-781 070-882 110-980 121-080 120-770 120-870 120-970	131-180	
22MY Wilderness	! IIITDACK !	MID	060-981 071-082 111-180 121-280 120-970 121-070 121-170	131-380	
		Outback	HIGH	060-981 071-082 111-180 121-280 120-970 121-070 121-170	131-380

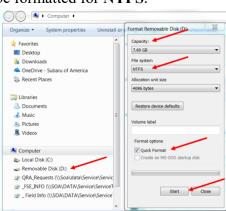
If the software version number matches "Older Software Versions" proceed to **STEP 2** below. If the software version is "**Latest Software Version**" as the unit already has the latest software version installed. Proceed to the WARRANTY / CLAIM INFORMATION section of the TSB and process a claim for Version Check Only.

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



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

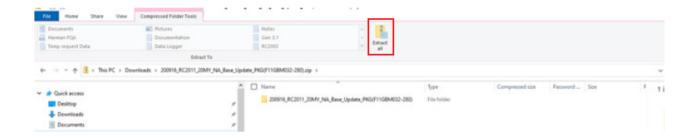
HIGH-22-Legacy-Outback-Denso-CP1 AUDIO UPDATE-October 2022

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

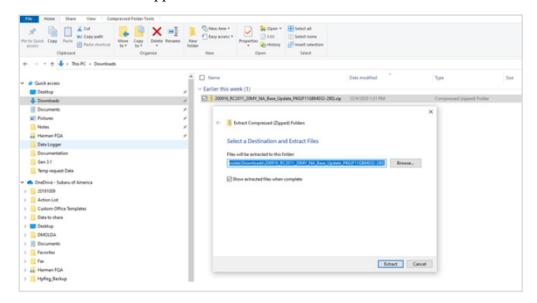
MID-22-Outback Wilderness-Denso-CP1 AUDIO UPDATE-October 2022

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

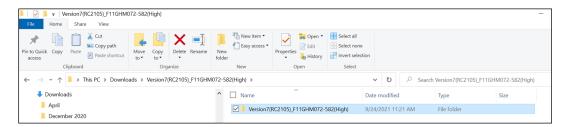
- Go to Downloads.
- CAUTION: After download is complete, NEVER change the file or folder names.
- Open / display the contents of File folder, for example: "File name TBD".
- Click on "Extract All Files".



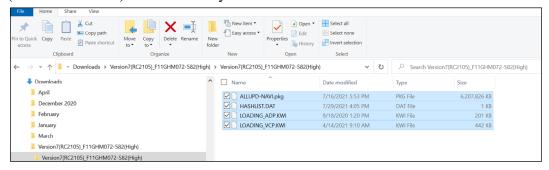
• The screen below will appear to set a destination for the extracted file.



• 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.

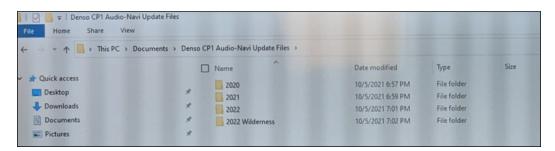
NEVER reuse or combine files from a prior update with a newer version.

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).
- 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.

STEP 4- Perform the software update.

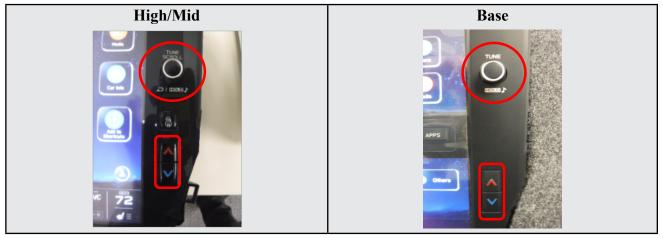
CAUTIONS:

- **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.

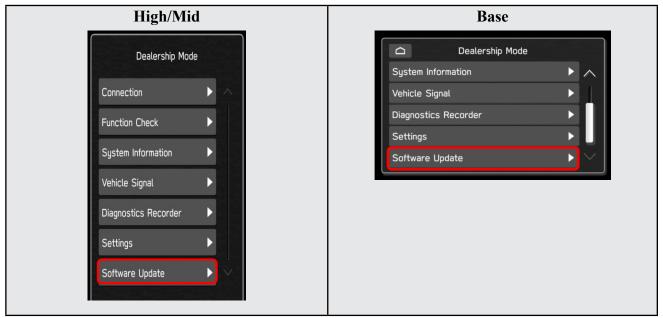
Best practice is to prevent USB software update conflicts with FOTA software update. Please confirm "Automatically Check for Update" setting is turned off following the steps below, prior to starting the software update via USB.



- **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.



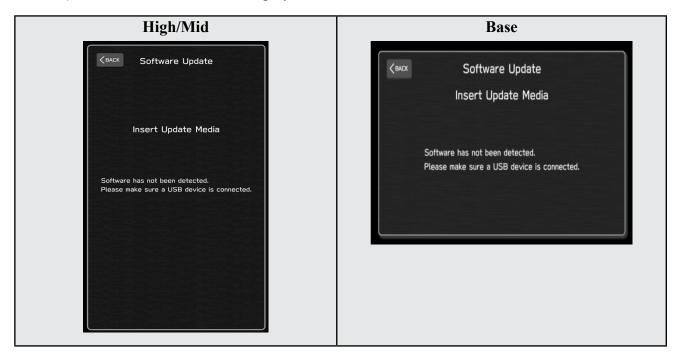
4c) Select Software Update from the Dealership Mode menu.



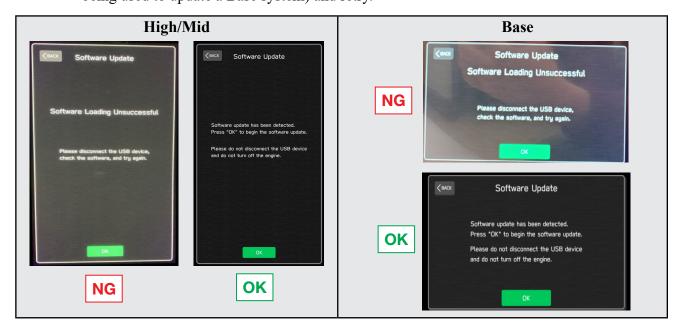
4:

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.



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.

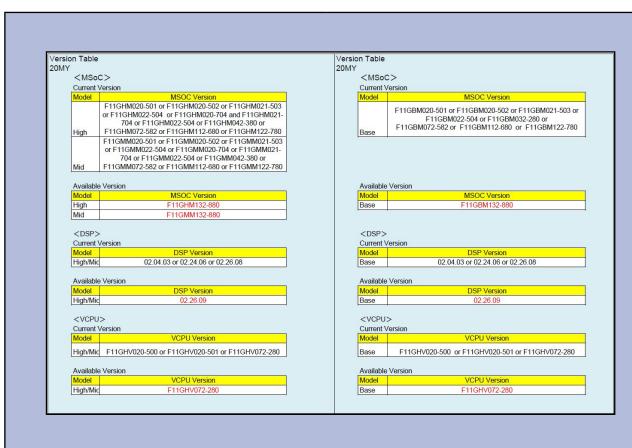


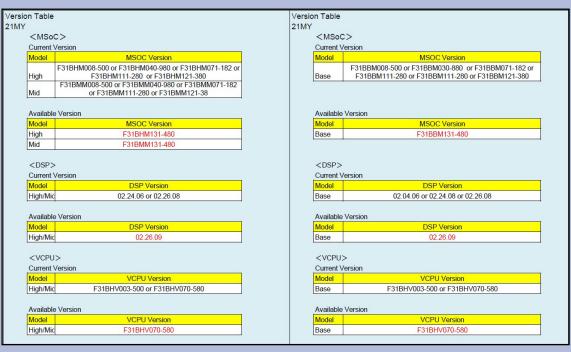
If you get the message Software Update Incomplete as shown below, please don't replace the hardware but retry updating the software according to the instructions in "Appendix B" on pg. 21.



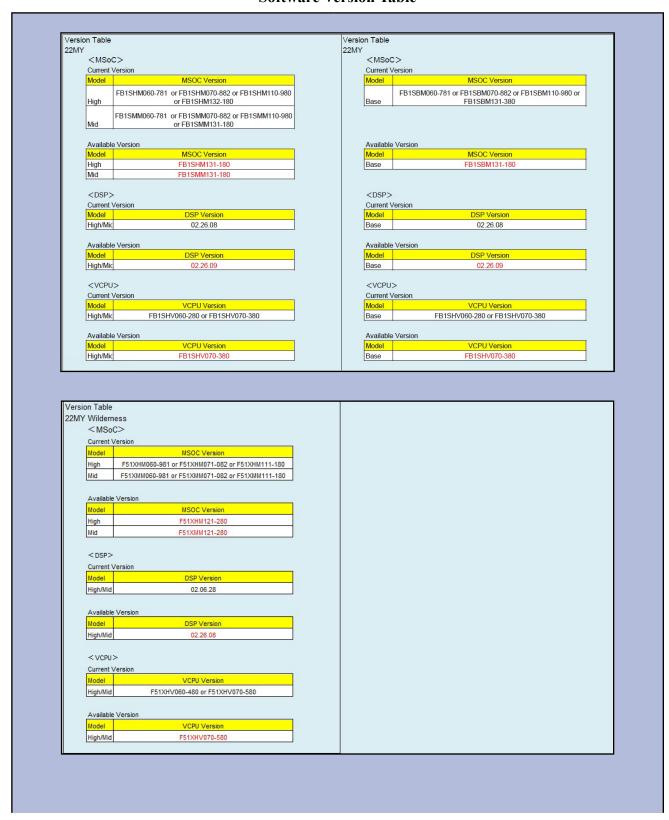
4f) The screen below will be displayed. Press **OK** to start the software update. **NOTE:** The actual software version displayed will be different from the picture shown below.







Software Version Table



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.



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

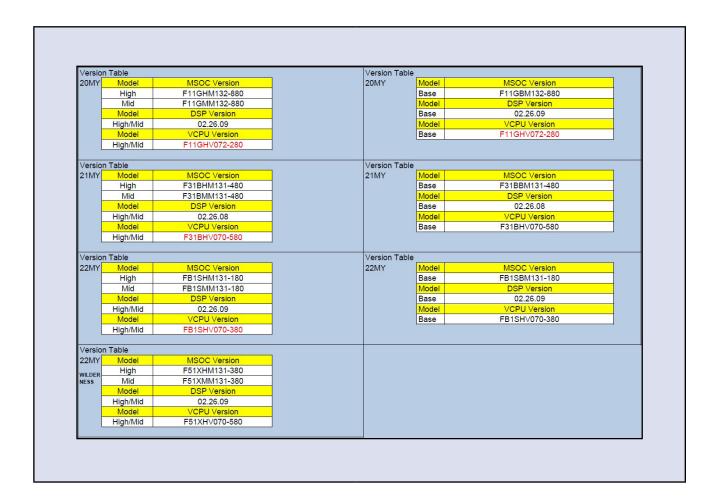


IMPORTANT NOTE:

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.



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 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.

Subaru of America, Inc. is ISO 14001 Compliant

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.

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.

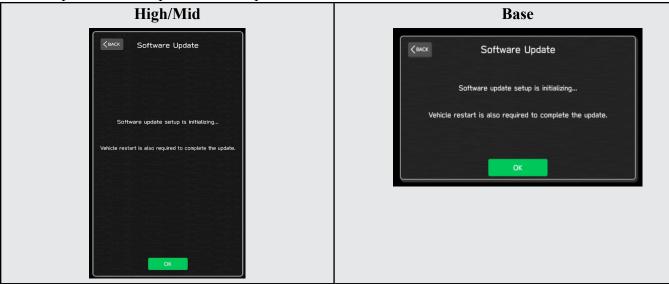
Continued...

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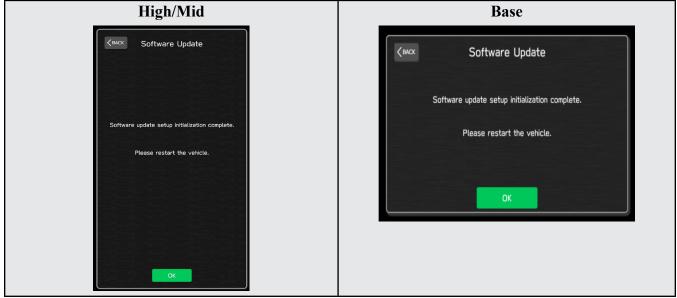
"APPENDIX A"

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.



The screens shown below will be displayed when the process completes.



- 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.

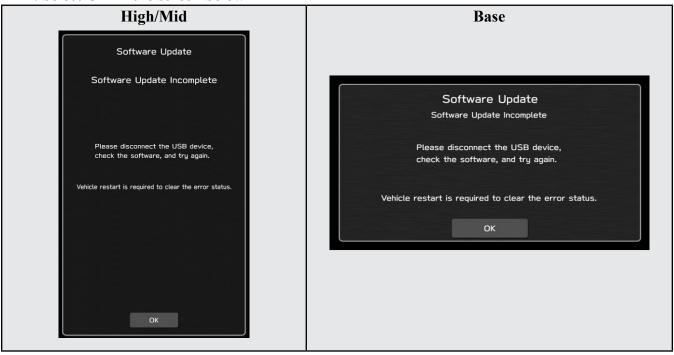
IMPORTANT NOTE: If this procedure is required, contact Techline as additional action may be necessary.

"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

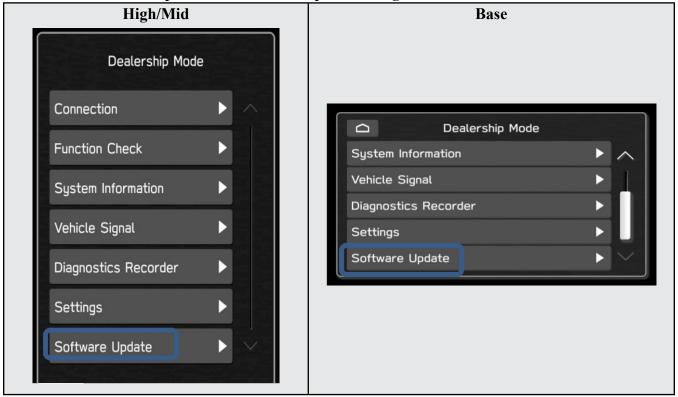


1-2. Turn the ignition switch or the engine OFF, and turn it ON again.

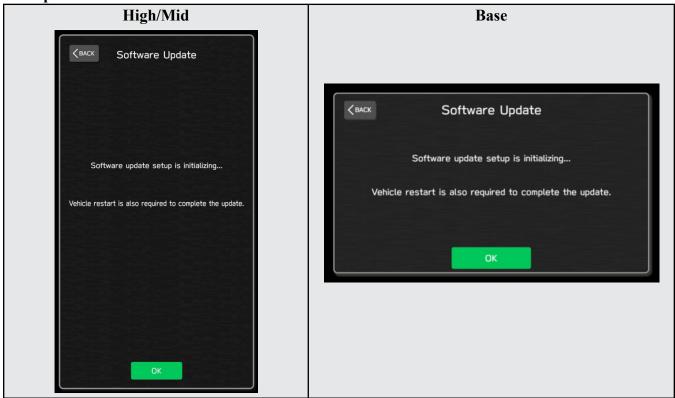
Caution: Do not remove battery terminal and keep battery power supply.



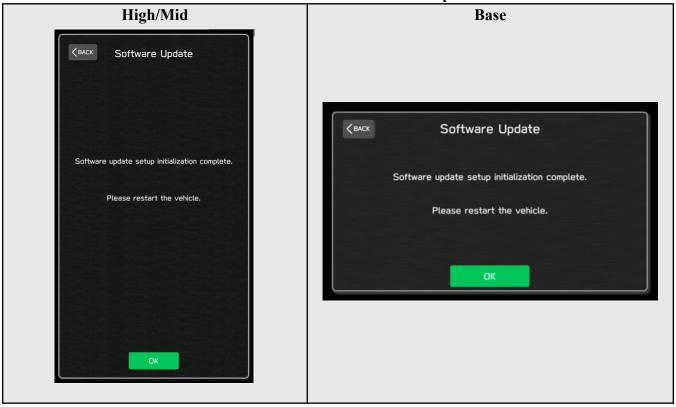
1-3. Select Software Update in the Dealership Mode diagnostics screen.



1-4. When you see the screen below, wait for approx. 15 minutes until the initialization is complete



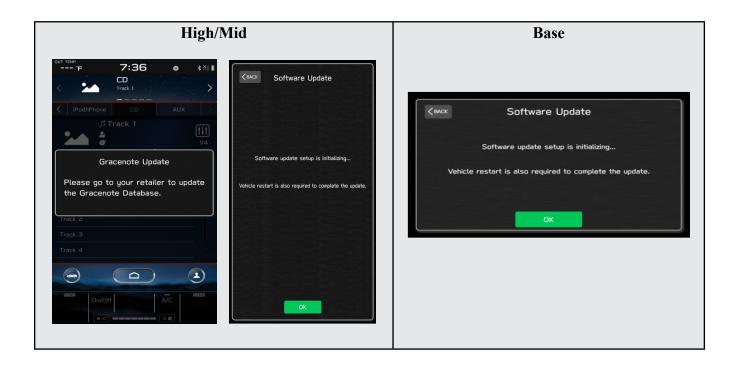
1-5. You will see the screen below when the initialization is complete.



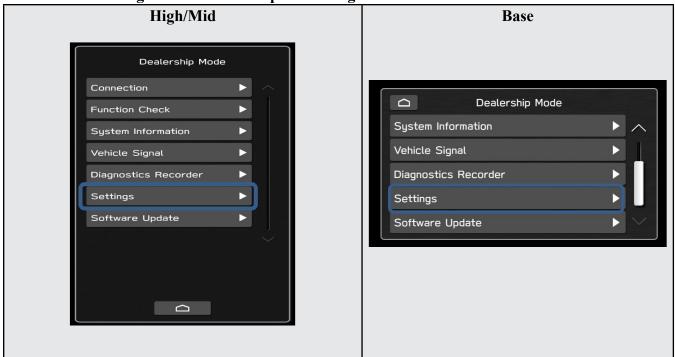
- 1-6. Turn the ignition switch or the engine OFF, open the driver side door and close the door then wait for 3 minutes.
- 1-7. Open the driver side door then turn the ignition switch or the engine ON.
- 1-8. Go to Dealership Mode menu again (PRESS and HOLD the RIGHT-side temperature control buttons (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.

"APPENDIX C"

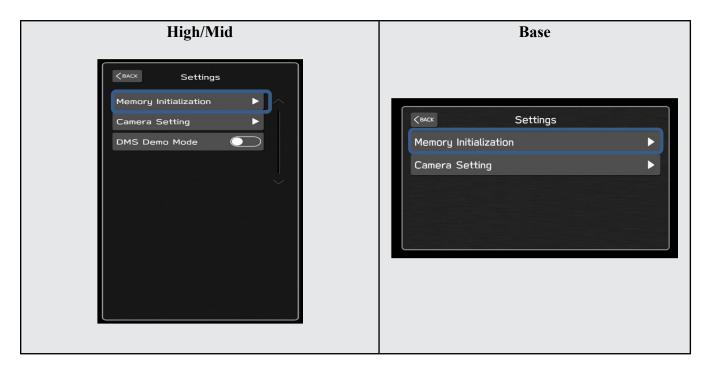
In case the Gracenote update popup screen appears or software initializing screen does not go away for more than 20 minutes, please perform steps 2-1 to 2-11.



2-1. Select "Settings" in the Dealership Mode diagnostics screen.

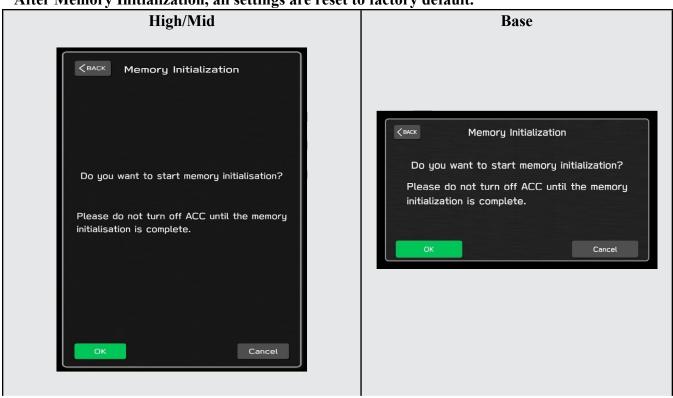


2-2. Select "Memory Initialization"

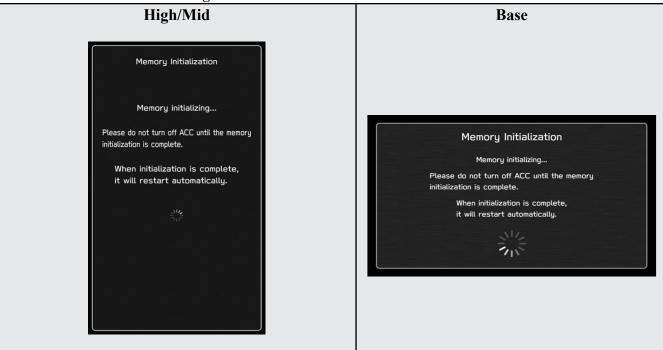


2-3. Select "OK"

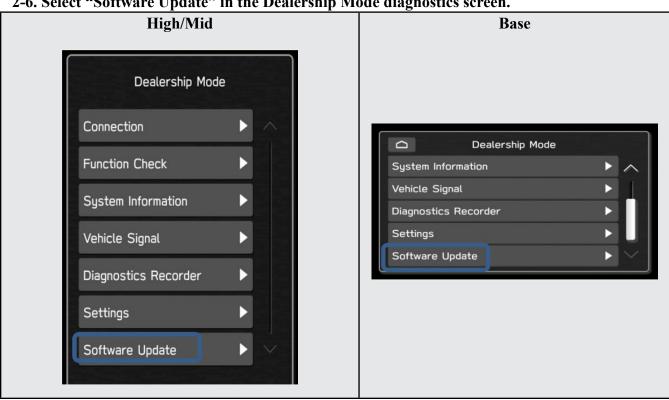
After Memory Initialization, all settings are reset to factory default.



2-4. You will see the following screen

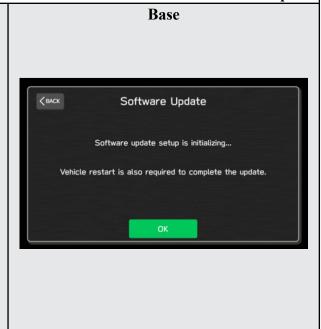


- 2-5. After a few seconds, system restarts itself.
- 2-6. Select "Software Update" in the Dealership Mode diagnostics screen.

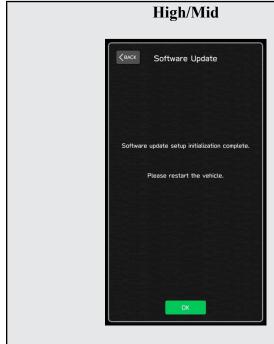


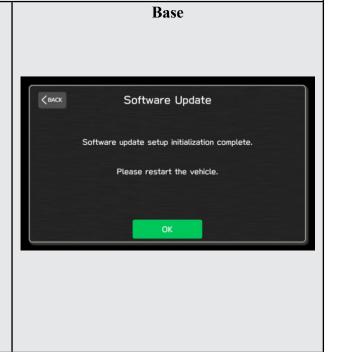
2-7. When you see the screen below, wait for about 15 minutes until the initialization is complete





2-8. You will see the screen below when the initialization is complete.





- 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.

"APPENDIX D"

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

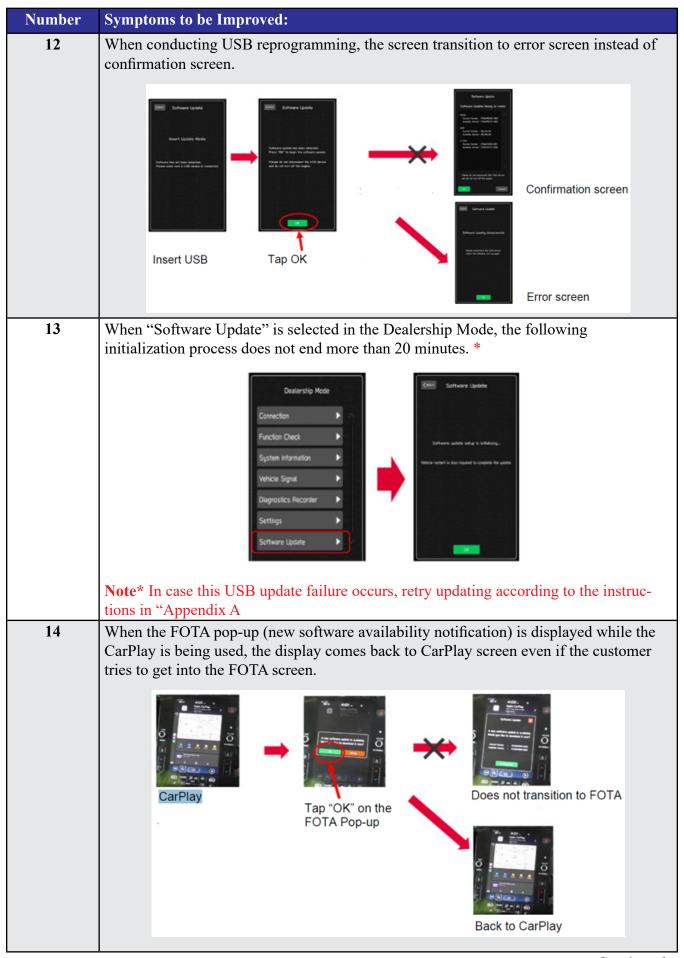
Update #	Model Year:	Version	Release Date:	NEW Software Version ID #:	Conditions Addressed:
0	2020	0	9/1/2019	F11GHM020-501/502 (High model software) F11GMM020-501/502 (Mid model software) F11GBM020-501/502 (Base model software)	- Start of Production for 20MY Outback/Legacy
1	2020	RC1912	2/24/2020	F11GHM021-503 (High model software) F11GMM021-503 (Mid model software) 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) F11GMM022-504 (Mid model software) F11GBM022-504 (Base model software)	See "Conditions Addressed by Update #2" as outlined in "Appendix C" below.
3	2020	RC2011	12/14/2020	F11GHM042-380 (High model software) F11GMM042-380 (Mid model software) F11GBM032-280 (Base model software) F31BHM040-980 (High model software) F31BMM040-980 (Mid model software) F31BBM030-880 (Base model software)	See "Conditions Addressed by Update #3" as outlined in "Appendix C" below
4	2020 2021 2022 2022 Wilderness	RC2105	10/15/2021	F11GHM072-582 (High model software) F11GMM072-582 (Mid model software) F11GBM072-582 (Base model software) F31BHM071-182 (High model software) F31BMM071-182 (Mid model software) F31BBM071-182 (Base model software) F31BHM070-882 (High model software) FB1SHM070-882 (Mid model software) FB1SBM070-882 (Base model software) FB1SBM071-082 (High model software) F51XHM071-082 (High model software) F51XMM071-082 (Mid model software)	See "Conditions Addressed by Update #4" as outlined in "Appendix C" below
	2020			F11GHM112-680 (High model software) F11GMM112-680 (Mid model software) F11GBM112-680 (Base model software) F31BHM111-280 (High model software)	See "Conditions Addressed by Update #5" as outlined in "Appendix E" below
5	2022	RC2111	1/28/202	F31BMM111-280 (Mid model software) F31BBM111-280 (Base model software) FB1SHM110-980 (High model software) FB1SMM110-980 (Mid model software) FB1SBM110-980 (Base model software)	
	2022 Wilderness		D. Douisade 01	F51XHM111-180 (High model software) F51XMM111-180 (Mid model software)	Continued

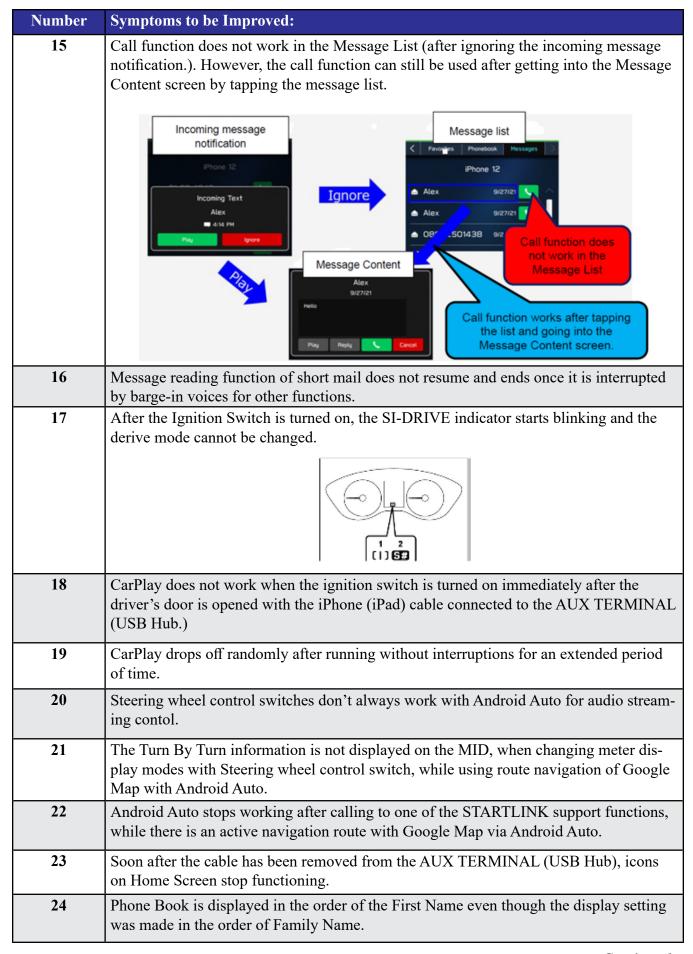
6	2021 2022 2022 Wilderness	RC2202	4/22/2022	F11GHM122-780 (High model software) F11GMM122-780 (Mid model software) F11GBM122-780 (Base model software) F11GMM122-370 (MID FOTA Software) F11GMM122-570 (MID FOTA Software) F11GMM122-570 (MID FOTA SOftware) F11GHM122-370 (HIGH FOTA SOftware) F11GHM122-570 (HIGH FOTA SOftware) F11GHM122-570 (HIGH FOTA SOftware) F11GHM122-670 (HIGH FOTA SOftware) F31BMM121-380 (High model software) F31BMM121-380 (Base model software) F31BMM121-380 (Base model software) F31BMM121-380 (Base model software) F31BMM121-170 (MID FOTA SOFTWARE) F31BMM121-170 (MID FOTA SOFTWARE) F31BHM121-170 (HIGH FOTA SOFTWARE) F31BHM121-170 (HIGH FOTA SOFTWARE) F31BHM121-080 (Mid model software) FB1SMM121-080 (Mid model software) FB1SMM120-970 (MID FOTA SOFTWARE) FB1SMM120-870 (MID FOTA SOFTWARE) FB1SHM120-870 (MID FOTA SOFTWARE) FB1SHM120-870 (HIGH FOTA SOFTWARE) FB1SHM120-870 (HIGH FOTA SOFTWARE) FB1SHM120-970 (HIGH FOTA SOFTWARE) FB1SHM120-970 (HIGH FOTA SOFTWARE) FB1SHM120-970 (HIGH FOTA SOFTWARE) FB1SHM121-280 (HIGH FOTA SOFTWARE) F51XHM121-280 (HIGH FOTA SOFTWARE) F51XHM121-280 (MID FOTA SOFTWARE) F51XHM121-170 (HIGH FOTA SOFTWARE)	See "Conditions Addressed by Update #6" as outlined in "Appendix E" below
	2020	RC2208	10/28/2022	F11GHM132-880 (High model software) F11GMM132-880 (Mid model software)	See "Conditions Addressed by Update #7" as outlined in "Appendix E" below
	2021	RC2208	10/28/2022	F31BHM131-480 (Base model software) F31BHM131-480 (High model software) F31BBM131-480 (Base model software) F31BBM131-480 (Base model software)	
7	2022	RC2208	10/28/2022	FB1SHM131-180 (High model software) FB1SMM131-180 (Mid model software) FB1SBM131-180 (Base model software)	
	2022 Wilderness	RC2208	10/28/2022	F51XHM131-380 (High model software) F51XMM131-380 (Mid model software)	

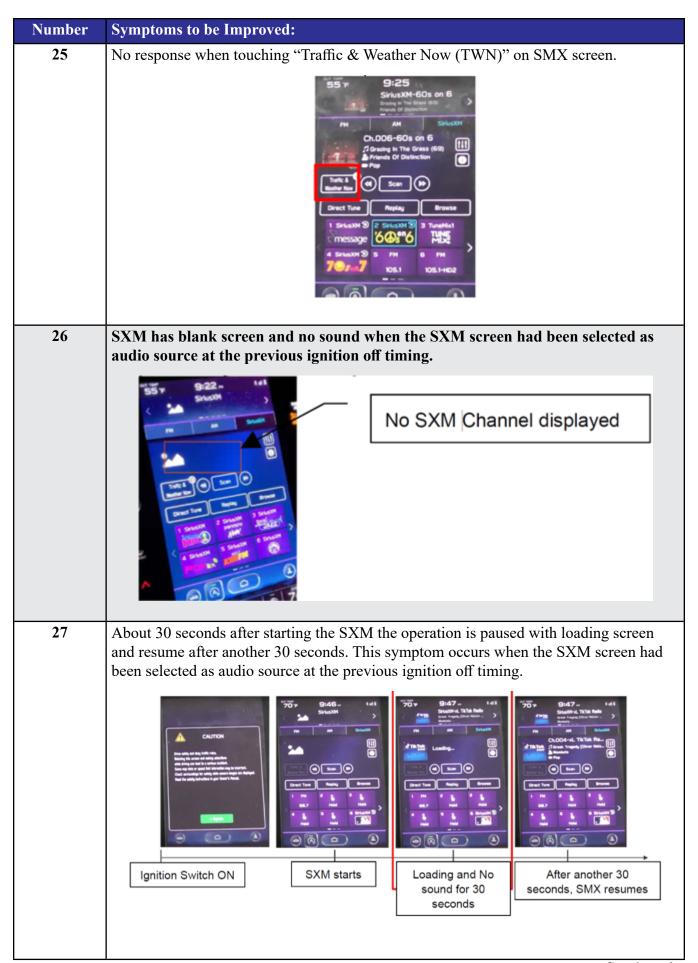
"APPENDIX E"

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-by-turn navigation and restarts. Example: Take the exit right 17 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. 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.) 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.







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. No Team Logo
32	No sound on Radio after changing to Radio screen.

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 preset 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. Software Update Download has paused due to poor download speed. Check Wi-Fi connection, then resume. Resume 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.) 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."						
	Excellent Good Bad						
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.						

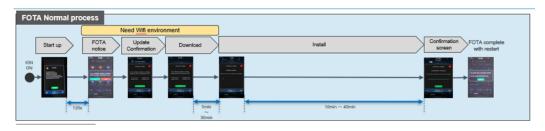
Number	New Functions and Enhancements								
7	Music in the different folder in a USB stick can be selected by Track-UP/Down operation.								
8		Music in multiple folders in a USB stick can now be played continuously whereas they could not be played unles they were in the root area of the USB stick.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

Symptoms Addressed By Update #6:

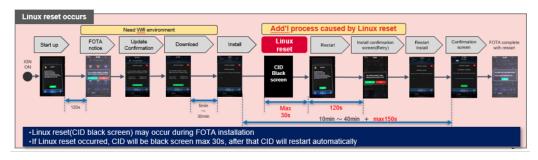
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Number Symptoms to be Improved:

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.



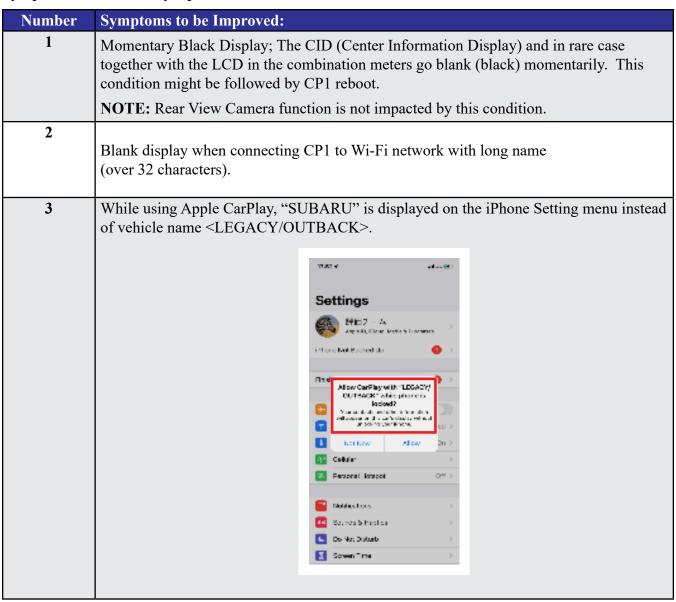
Symptoms Addressed By Update #5:

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:
	CP1 forced reboot is performed by pressing the "Vol" button continuously or by performing factory reset operation
	Loss of Bluetooth or Wi-Fi connection
	Application crash during Bluetooth audio streaming
	Launching CarPlay or Android Auto application, after the smart phone is connected
	Removing USB connection between the iPhone's and CP1 during active CarPlay session
	STARLINK application crash
	Performing USB map update using Bluetooth connection with a smart phone carrying STARLINK Companion App map update data
	When ACC is turned OFF and ON, while STARLINK Companion App map update is being performed
	Navigation application crash
	"Service Appointment Scheduler" application crash due to a communication error between DCM and CCM
	Re-inserting USB Flash drive within 2-3 seconds
	Removing USB Flash drive while playing back the data from the USB Flash drive
	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:
	• Failure to complete CP1 software update via USB port *
	• 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.
	Performing CP1 software update via USB port using the same software version
	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 ** 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.) *** Note*** In case this USB update failure occurs, retry updating according to the instructions in "Appendix C"

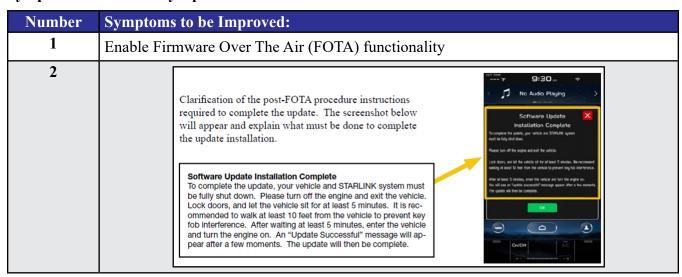
Symptoms Addressed By Update #4:



Number	Symptoms to be Improved:
4	Vehicle Setting Icon in <home> menu is grayed out.</home>
	Menu list in the "Car" tab in the Setting Menu is not displayed.
	Ne Austu Playing Ne Austu Playing Play Play
5	CarPlay stopped working after hanging up a hands-free phone call.
6	CID shows multiple images simultaneously.
	VOLIME 1
7	CID shows multiple images simultaneously.
8	CID freezes/locks after startup. 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

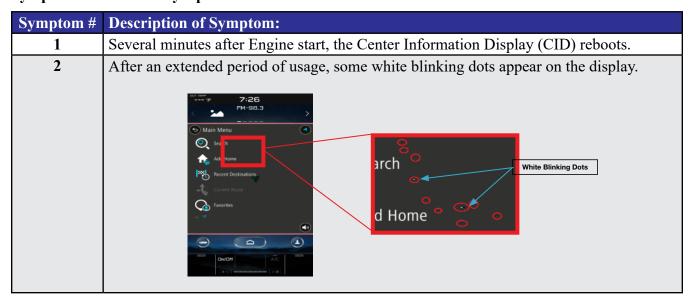
Number	Symptoms to be Improved:
18	Android Auto does not function. "Android Auto is Disconnected" is displayed with Launch Error message.
19	CarPlay does not function with USB connection.
20	Sound is muted after hanging up a hands-free phone call.
21	Ring tones and the voice from the other end on the 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.</home></media>
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
30	Others. Improvement in button design & location and Icon display pattern, etc.

Symptoms Addressed By Update #3:



Number	Symptoms to be Improved:	
3	Currently, the microphone level indication is incorr corrected. More microphone level indication inform	
4	A reduced (low) volume (-6db) concern during han CarPlay has been addressed to make the volume lev	
5	Voice recognition (VR) has been enhanced to impro (e.g. YES).	ove recognition of short words
6	The program has been corrected to prevent repeated mediately after activation of Android Auto.	d rebooting and system freeze-up im-
7	Eliminate CP1 MOTA update error message "Some able to install any map updates. Contact your dealer	<u> </u>
8	The Auto Stop-Start On/Off function button has been layer of the system for easier use. A screenshot of his below.	*
	High and Mid grade SUBARU Settings Apple Carriery OFF AIC 75 WITH AND A	Base grade Vehicle Control Speed Assistance Others OFF Auto Auto Auto Auto Auto Auto Auto Aut

Symptoms Addressed By Update #2:



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. Sound Customization Equalizer Balance/Fader Vocal Image Control Bass Mid Treble Reset Reset
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.</media></radio>
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.

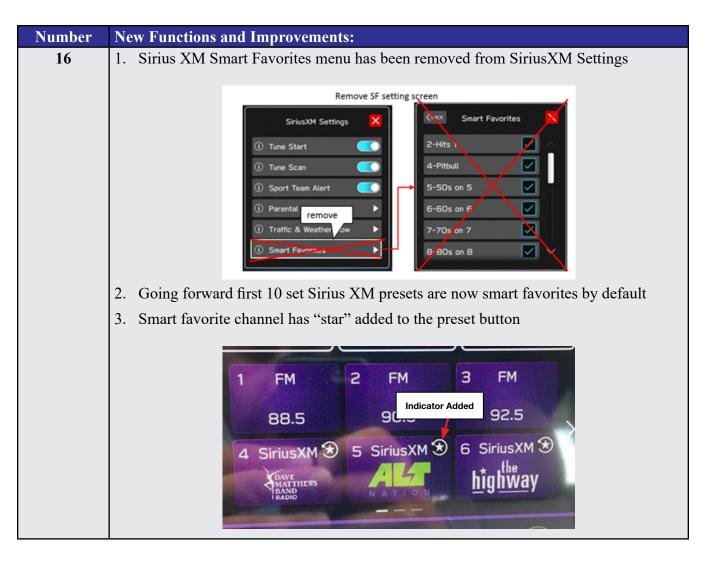
Symptom #	Description of Symptom:
13	CarPlay connection cannot be established. When connecting an iPhone via USB, "CarPlay Unavailable" is displayed and CarPlay does work.
14	The HOME screen goes blank. When the screen is switched from Camera mode to HOME, no icons are displayed as shown below.

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.
	Stockinters white School (a)

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: Icon size increased from 7mm to 9mm. Icon color has been changed to Dark Blue. Icon position (when using route guidance) stays at the same position as when not using route guidance. 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. Vehicle Control Driving Assistance Others
5	HVAC control buttons of base grade are now larger and easier to see. Max A/C A/C A/C A/C A/C A/C A/C A/C
6	Time zone and Summertime are now automatically selected. 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.

Number	New Functions and Improvements:
9	CarPlay screen is now expanded from half size (horizontal) to full screen (vertical).
	11:18 No Audio Playing No Audio Playing AWA AWA AWA AWA AWA AWA AWA A
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.</turn>
12	By touching the new CarPlay button located at the top of the CID, the CarPlay menu can be accessed easily. Out temp A ple CarPlay is connected. Bluetooth USB Apple CarPlay Apple CarPlay Apple CarPlay Apple CarPlay
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.</siri>
15	Gracenote Media Database updated to November 2019.



Conditions Addressed By Update #1:

