

The Harman Kardon Gen 3 Audio and Navigation systems introduced in the 2017 Impreza release are now found in 2017-18 Impreza, 2018 Crosstrek and 2018 Legacy and Outback models.

This new system has significantly more functionality than any past system ever released. As with any complex computer based system, while extensive pre-launch testing was completed, every possible use case and outcome can never be fully anticipated during development.

Post launch conditions may occur where certain combinations of inputs result in undesirable outputs. As such it is critical to gather all the details surrounding these events to allow SBR and Harman the ability to duplicate and then evaluate what is needed and then improve the system accordingly to prevent the undesired outcome in the future. This is no different than concerns commonly found and addressed with updates for Smartphones, Apps, and related peripherals for which updates and improvements are released regularly.

Required Actions and Best Practices:

1. Effective immediately retailers must complete this Investigation Guide / Questionnaire every time a customer presents with any concern(s) related to a Harman Kardon Gen 3 audio / navigation head unit.

Important Note: The questionnaire does provide for documentation of multiple conditions. To avoid confusion, reduce follow up questions, and clearly communicate each concern, it is best to complete a separate questionnaire for <u>each</u> concern.

- 2. When requested, the Investigation Guide / Questionnaire must be supplied to Techline or attached to a related QMR.
- 3. All data collected through these questionnaires will be shared with Harman for possible future quality improvements.
- 4. The best chance of capturing this information is during the initial customer interview at the time of write up with the Service Advisor.
- 5. SOA highly recommends that retailers have a supply of these Investigation Guide/ Questionnaire readily available for use by the Service Advisor when these discussions occur during customer write-up. This will greatly reduce, but cannot fully eliminate, the possibility of follow up questions in the future.
- 6. Videos (preferred) or photos of the condition and most importantly showing how the condition is duplicated are strongly encouraged and requested whenever possible
- All completed forms must be emailed or faxed to SOA. Email completed forms to <u>FQA@subaru.com</u> (This is not an interactive mailbox. It only receives the completed forms.) or Fax to (856)-254-1305 as outlined on footer of the Investigation Guide / Questionnaire.

SOA recognizes that completion of this questionnaire takes time and effort on the part of our retailer partners. We truly appreciate those efforts and THANK YOU in advance for partnering with us in improving this infotainment product for all our customers.

New flat rate times have been established to help compensate retailers for the additional time necessary to complete these documents. Please claim these as needed whenever these forms have been <u>fully completed</u> and supplied to SOA as outlined on the form itself and in the instructions below.

	Labor	Labor	Time**			
Labor Description	Operation #	Legacy / Outback	Impreza / Crosstrek	Fail Code		
COMPLETION OF HARMAN G3 QUESTIONNAIRE ONLY, NO REPAIRS REQUIRED OR MADE (Admin. Expenses)	A101-113	().3	ZSR-98		
OR						
AUDIO UNIT R&R (w/ Navigation)	B031-103	0.3	0.5			
COMPLETION OF HARMAN G3 QUESTIONNAIRE	C101-228	0.3		2h0-43 (man)		
OR						
AUDIO UNIT R&R (w/out Navigation) Use with Base and / or Plus -level Audio Units	B031-101	0.3	0.5	ZRM-43 (BASE) or		
COMPLETION OF HARMAN G3 QUESTIONNAIRE	C101-228	().3	ZRN-43 (MID)		

**See the Subaru Labor Time Guide for any additional applicable claim coding options.

User Instructions

- 1. Retailers must complete this Investigation Guide / Questionnaire every time a customer presents with any concern(s) related to a Harman Kardon Gen 3 audio / navigation head unit.
- Download/Save the <u>Harman Investigation Guide-Questionnaire</u> from Subarunet under Service Operations & Technical >> Forms/Downloads to a designated location on your computer such as the Desktop or My Documents.
- 3. Complete the form by answering all the questions related to the customer complaints with as much detail as possible. The more detail the better to increase the possibility of duplication by the vendor and possible future quality improvement.
- 4. Please print clearly or type within the form (Typing within the form may require use of Google Chrome or another browser depending upon your current IE version).
- 5. Use the comments space at the end of the form or attach additional sheets, when more space is needed.
- After filling in all fields related to the customer's concerns, email the completed form to <u>FQA@subaru.com</u> or fax all completed forms to (856)-254-1305 as outlined on footer of the questionnaire.
- 7. In lieu of emailing or faxing in the form, it is highly encouraged to submit it attached to a QMR and at the same time share any videos or photos of the condition.
- 8. Always print or save a copy of the completed form for the vehicle file. Refer to section 13.2 Record Retention of the Claims Policies Guidelines & Procedures for full details on required record retention.
- 9. IMPORTANT NOTE: <u>There is no requirement for a Techline case</u>. A Techline case is only necessary when/ if immediate repair assistance is needed. If you need to discuss the concerns or desire feedback, please contact SOA's Technical Helpline to open a case. Once the case is opened, they will request the completed form be shared with them by fax or email so it may be added to the case as this is a separate process. Again, there is no requirement for a Techline case. Techline case is only necessary when/ if repair assistance or feedback is requested.

For urgent customer cases, please complete an URFCA and contact Customer/ Retailer Services.





The following is a Investigation Guide / Questionnaire to help collect information and, in some cases, address customer concerns with the Harman Gen3 Infotainment System. The following pages below are organized into common reports from field issues. To help collect this pertinent information, please complete as much information as possible in as much detail as possible and follow the steps provided.

NOTE: Some of these investigative guides will require the Technician to provide detailed feedback while the system is experiencing the concern. Others will require specific information from the customer. In all cases, the Questionnaire Pages at the start of this document must be completed at the time of write-up to gather as much detail from the customer as possible.

Always request and retain any pictures or videos (preferred) of the condition and any data gathered from the system. Once the form is completed it may be emailed (preferred) or faxed as outlined at the end of this document.

If the condition can be duplicated, try to gather as much information as possible regarding steps required to recreate the issue.

For example:

- 1. Unlock car
- 2. Start engine
- 3. Shift to reverse while the "STARLINK" screen is displayed. FM audio is playing in the background
- 4. Connect an iPhone via USB hub for CarPlay
- 5. Shift to drive
 - ...and so on. This information helps with being able to recreate the issue.

Subaru Retailer Questionnaire – Harman Gen 3 Audio Concerns

Retailer Name:		Retailer Code:	Repair Order Date:	
City:	State:	Mileage:	Repair Order No:	
Vehicle Identification Numbe	r (VIN):		Techline Case Number (if available):	

INSTRUCTIONS for COMPLETION:

ALWAYS COMPLETE: General questions **1-17** with customer and have Technician complete **37-45** BASED ON SYMPTOM(S)- Complete the following for each concern mentioned by the customer.

- A. Blank screen concern, please make sure items 18-20 are answered
- B. Freeze* concern, please make sure item 21-24 is answered
- C. Rear View Camera, please make sure item 25-26 is answered
- D. Mobile application (App- Includes: CarPlay, Android Auto, Pandora and others) concern, please make sure items **27-29** are answered
- E. Unusual Sound concern, please make sure items **30-31** are answered
- F. Clock concern, please make sure items 32-33 are answered
- G. Audio sound volume or quality concern, please make sure items 34-36 are answered
- H. ALWAYS COMPLETE Technician Inspection Results, please make sure items 37-45 are answered

*Freeze definition: Freeze is defined condition where inputs from hard keys, soft keys (touch screen), knobs or steering wheel remote controls do NOT result in any change to the head unit function. Always test for and note rear view camera function when this or any condition occurs.

1. Detailed symptom description (list all concerns here):
2. Is the vehicle currently at the retailer? NO: YES: If yes, how long will it be there: (Example: Is customer a waiter? Is the car there overnight or longer? How long?)
3. Can the concern be duplicated? NO: YES: If yes, how often:
4. Has the Tech witnessed/verified the concern? NO: YES:
5. Specific time/place/temperature when the concern happens?
6. Were the steering wheel controls functional for head unit control ? NO: YES:
7. Does ignition off/on cycle correct the concern? NO: YES:
8. Was there any audio output coming from the Head Unit? NO: YES:
 9. Last 5 actions performed before symptom occurred. (list 1 to 5 in order – for example: a. listened to FM for ~5 minutes, b. Switched to CD using steering controls, c. Pressed seek forward hard key 3 timesetc.) a. b. c. d. e.
10. Did the condition occur right after start up? NO: YES:
Did the condition occur right after putting the gear into reverse (drive) after start up? NO: YES:
If driving, how long after starting out?
(i.e. remote start? If YES, was the Remote Engine Starter used when the symptom occurred?)
12. Is anything plugged in to the media hub when concern occurs? NO: YES: If music files on USB, what type of files are being used?
 13. Are there any phones or other devices paired to the unit and if so, what type of phone/software/cell phone carrier? NO: YES: List all phones/ devices paired Note: To verify if a compatible phone follow this link: http://www.subaru.com/owners/index
14. Does unpairing and pairing the phone correct the concern? NO: YES:
15. Is an aftermarket or genuine cable used to connect the phone? NO: YES: Verify brand:
16. Is it possible to capture a video recordings of the concern? NO: YES:
 17. If concern is related to Navigation System operation: a. What are the exact To: and From: addresses? b. Is the head unit or the phone application being used for navigation? NO: YES: i. If Android Auto, what App is being used? ii. If iPhone, what App is being used? iii. If iPhone, is CarPlay also being used or is CarPlay inactive? NO (Inactive): YES (CarPlay in use):

Α.	Blank screen concern, please make sure items 18-20 are answered
18.	Is the screen blank or frozen? NO: YES:
19.	Were the hard keys/buttons illuminated ON solid? Or blinking? Or OFF? ON: OFF: BLINKING:
20.	Did you turn off the Head Unit by holding the volume knob followed by the ignition turn OFF? NO: YES: Continue to section H
В.	Freeze* concern, please make sure item 21-24 is answered
21.	At which screen did the system freeze?
22.	Was the unit frozen at start up? NO: YES: If not, how long during use before the freeze was noticed?
23.	When the unit is frozen, are any hard keys (Volume, radio, map, etc) or steering wheel controls operational? NO: YES:
24.	Do any touch screen buttons highlight when pressing on them? NO: YES: Continue to section H
C.	Rear View Camera, please make sure item 25-26 is answered
25.	How soon do you put the car in reverse after starting the engine? (For example: right after engine start-up, after idling for ? min, etc.)
26.	Was the Rear View Camera functional, while the symptom was observed (ex: black screen or display freeze)?
	Continue to section H
D.	Mobile application concern, please make sure items 27-29 are answered
27.	Please check off which application was launched from the phone prior the issue and how the phone was linked to the Head Unit?
	Mirror Link CarPlay Android Auto Aha Radio Pandora Subaru STARLINK None
	Paired w/Bluetooth Tethered by USB**
	**Genuine or Aftermarket cable used for Tethering? Genuine Aftermarket
28.	Is the issue specific to phone application (ex. Pandora, Aha, CarPlay etc.)? NO: YES:
	If yes, which one is it and what is the version of the application? Version
	Mirror Link CarPlay Android Auto Aha Radio Pandora Subaru STARLINK None
29.	How was Siri function used? Push talk switch on the steering wheel Press the home button on iPhone Continue to section H
Ε.	Noise concern, please make sure items 30-31 is answered
30.	Is the noise (buzz, static, pop etc.) coming from the speaker(s)? NO: YES:
	(If YES, which speaker(s)) or from the Head Unit?
31.	Note the selected station for AM-related problems with noise? Continue to section H
F.	Clock concern, please make sure items 32-33 are answered
32.	Was the clock set manually? Or auto? MANUALLY: AUTO:
33.	If the time changes, when does it change? (For example, when ignition key is cycled off/on) Continue to section H

G. Audio sound concern, please make sure items 34-36 are answered
34. What audio source is the head unit on when the concern occurs: Carplay or other audio source?
35. Is vehicle equipped with an external amplifier? Harman Rockford Other:
36. For volume/audio concerns - Has the amplifier been checked and proper operation confirmed? NO: YES: Continue to section H
H. Technician Inspection Results), please make sure items 37-45 are answered
37. All Head Unit wiring harness connectors fully seated in the unit? NO: YES: Inspect for bent/loose pins? NO: YES:
38. Have any DTCs been set? NO: YES:
39. Subaru Head Unit part number?
40. Head Unit software version?
Is the software version the most current available?
41. Is there any physical damage/tampering present? NO: YES:
42. In cases where multiple software updates have been performed, did you use different USB Flash drives for each BASE, MID, and HIGH? Or the same USB Flash drive?
43. If the screen turned blank and the install was reinitiated, how long did you wait to remove the power to the Head Unit?
44. Was a capacitive discharge already performed? NO: YES: NOTE: If NOT performed, Do NOT attempt it right now.
If yes, what was the outcome?
45. Could you determine the amount of dark current draw the amplifier has on the battery? NO: YES: NOTE: Dark current measurements to be performed within 20 minutes of entering
standby/sleep mode. Allow 5 minutes for Electical System to enter standby/sleep mode. Measurement:
General / Additional Comments on Conditions:

Continue to the next pages and complete every section that is related to the customer's concerns. If the customer's condition is not listed, choose the one(s) that are closest to it for example if App related follow CarPlay/ Android Auto.

CONCERNS	PAGE
Freeze Related	4
Audio Related	6-8
Clock Related	9-12
GPS/Navigation	13
CarPlay/Android Auto	14-15
Bluetooth	16-20
USB	21
Radio Preset	22

Freeze Related Concerns

Please answer the following for concerns in which the customer has described experiencing unresponsiveness when using the system.

	NO: YES:					
	If so, please note the steps taken which lead up to the system freeze.					
1.	1. 6. 7					
	2. /. 3. 8.					
	4. 9.					
	5. 10.					
2.	Describe the behavior seen during the freeze: is audio present? NO: YES: What screen is the system stuck on (e.g. STARLINK Splash screen, Home Screen, Phone Screen, Map, etc.)?					
	How long was the system running for before the freeze was observed?					
3.	Was it frozen immediately at start up? NO: YES:					
	After using the system for an extended period of time? NO: YES:					
4	Try using the Hard Keys (see image below). Does the system respond when pressing these? NO: YES:					
5.	Try using the Steering Wheel Controls (Volume, source, VR, etc see image below). Does the system respond when pressing any of these? NO: YES:					
	If the system responds to hard keys and/or steering controls.					
	Try swapping head units with a known good setup. Is the issue reproducible? NO: YES: CAUTION: DO NOT swap DCMs between vehicles. Disconnect/ remove the DCM in each vehicle.					
	If swapped unit does not reproduce issue.					
	Request component exchange.					
	RADIOMAPAPPSGotMEDIAMMBadio Hard Keys - 2017 Impreza (design will vary by model and vehicle line)Steering wheel controls - 2017 Impreza (design will vary by vehicle line)					
	Radio Hard Keys - 2017 Impreza (design will vary by model and vehicle line) Steering wheel controls - 2017 Impreza (design will vary by vehicle line) If the swapped unit duplicates the same condition, check for vehicle side concern, concern with connected it (Phone USB Device, or other), or other outside influence					

Audio Related Concerns

Please answer the following for concerns in which the customer has described experiencing issues dealing with audio output.

ls t sec	Is the concern regarding no audio output? If yes, answer the following, but if not, skip this section and proceed to the next section below.									
-	What	source(s)	do not h	nave audio	o output?)				♦ @ FM
· ·	CD	AM	FM	SXM	Aux	USB	BT-A	·W·		
2.	Can th If so, p 1. 2. 3. 4. 5. 6. 7. 8.	ne no aud blease no	io conce te the st	ern be rep eps follow	roduced?	? NO: olicate the	YES: e condition.	Radio Media Description Car Info Apps Audio	A Phone Phone Source Widge	Map Map
	9. 10.								10	
3.	When top rig (See s	selecting ht corner creensho	an audi of the s ot to the	o source, creen sho right) NO :	does the ow the co : YE	e audio wi rrect sour E S:	dget in the ce?	Radio Media	Phone	Мар
4.	Does knob ((See s	the system or volume creensho	m display e steerin ot to the	y the volu g switch) right) NO :	me indica is adjuste : YE	ator when ed? :S:	the volume	Car Info Apps Volu	Settings	
	Does	the syster	m show i	ndication	when pla	ayback is	occurring?	IO: YES:		
5.	For ex	ample, if	using a	media dev SXM) is i	vice (CD, there sta	iPod, US tion data	B, etc), does displayed an	the playback timer up	odate? NO: VES:	YES:
6.	Is the	vehicle e	auipped	with a Ha	irman/Ka	rdon amo	lifier? NO:	YES:	120.	
•••				L If th	o vehicle	is equinn	ed with an HK	amplified system		
		Confirm o	onnoctic		opor bot	Noon boo	d unit and ar	molifier		
	a. b	Does disc	connectir	ng and reg	connectir	ng the am	olifier addres	ss the concern? NO :	YES:	
	C.	Does disc	connectir	ng and rec	connectir	ng the hea	ad unit addre	ss the concern? NO :	YES:	
	•••				If conce	rn does no	t resolve afte	r these steps		
7.	Perfor if the o one (o	m a swap concern is r both) of	o of each s addres f the con	compone sed. If the ponents?	ent with a conditio ? NO:	a known g n persists YES:	ood amplifie s, swap the h	r and head unit. Swap ead unit. Was the cond	the amplifier cern addresse	first then check ed by swapping
		CAUTION	N: DO N	OT swap	DCMs b	etween v	ehicles. Disc	connect/ remove the D	CM in each v	vehicle.
					lf con	nponent sv	vap addressed	d concern. 🕂		
					Request	exchang	e for suspect	t component.		

Audio Related Concerns

ls ti sec	Is the concern regarding audio quality? If yes, answer the questions below. If not, skip this section and proceed to the next section below.						
1.	What source(s) have the audio quality concern? Describe the concern and attach a video (preferred) or pictures if possible.						
	For concerns regarding audio quality on specific source(s):						
	For tuner - related issues (AM/FM/SXM/DAB), is the concern on a specific frequency/channel? Please list the frequencies/channels here:						
	For media (USB, BTSA, CD, etc), list the devices used, file type (mp3, mp4, cda, aac, etc).						
2.	Can the no audio concern be reproduced? NO: YES:If so, please note the steps followed to duplicate the condition:1.6.2.7.3.8.4.9.5.						
3.	Is the concern heard in each audio channel? NO: YES: Adjust balance and fade to confirm. (See further instruction below).						
Ba Hc Dr to	alance and fade can be adjusted by going to the screen -> Settings -> Sound -> EQ. The rest is to each corner of the vehicle check for output from each audio channel. Feset is the set is the						
	If the concern is only observed while listening to certain audio channel(s):						
	a. Confirm connections from head unit to speakers are not damaged.						
	b. If the vehicle comes equipped with an Harman/Kardon amplifier, confirm connections between amplifier and speakers are not damaged.						
	 If the issue persists, try to reproduce it in a like vehicle. If issue is not reproducible, swap out head unit and/ or amplifier. If the concern is no longer present after swapping components, was the concern addressed by swapping components? NO: YES: CAUTION: DO NOT swap DCMs between vehicles. Disconnect/ remove the DCM in each vehicle. 						
	Request exchange for suspect component.						

Audio Related Concerns

ls t sec	he concern regarding buzzing noise? If yes, answer the questions below. If no, skip this ction.
1.	Is the vehicle equipped with an Harman/Kardon amplifier? NO: YES:
	If the vehicle is equipped with HK amp and the issue is reproducible:
	a. Does the buzzing noise occur even when the vehicle is shut off? NO: YES:
	b. Swap the amplifier with a known good amplifier, is the concern still present? NO: YES:
	c. If swapping the amp, addresses the issue, order a replacement amplifier.
2.	Can the buzzing noise be reproduced? NO: YES: If so, please note the steps followed to duplicate the condition. Capture and attach a video (preferred) or pictures of the issue if possible. 1. 6. 2. 7. 3. 8. 4. 9. 5. 10.
3.	What source(s) can the noise be heard on? CD AM FM SXM Aux USB BT-A
4.	Compare the same source(s) and, if applicable, use the same devices in a like vehicle. Does the concern transfer to the like vehicle? NO: YES:
5.	If the buzzing noise is noticed when using certain media devices (USB, iPod, CD, etc), try a similar device. Is the concern still reproducible? NO: YES: If not, gather details on the suspect device such as model, device software version (if applicable), device content such as file types, if this is a CD, is it a copied CD? NO: YES: Data disc? NO: YES: Commercially sold CD? NO: YES:

For other audio concerns please fill out the information below.

Clearly describe the concern below:

1.

Can the concern be reproduced? NO: If so, please list the steps to reproduce it steps and the issue observed.	YES: below. Attach a video (preferred) or pictures if possible showing the	Э
1.	6.	
2.	7.	
3.	8.	
4.	9.	
5.	10.	
	Can the concern be reproduced? NO: If so, please list the steps to reproduce it steps and the issue observed. 1. 2. 3. 4. 5.	Can the concern be reproduced? NO: YES: If so, please list the steps to reproduce it below. Attach a video (preferred) or pictures if possible showing the steps and the issue observed. 1. 6. 2. 7. 3. 8. 4. 9. 5. 10.

Comments:

Please answer the following for concerns in which the customer has described experiencing issues dealing with the clock.



Function CheckPanel and Steering SwitchPanel and Steering SwitchTouch SwitchMicrophoneNavigation System SensorGPS Date SettingNavi System Sensor	2	 Are SMS messages sy the head unit? NO: YES: The system requires a SMS messages to upo time. Messages shoul Phone > Messages. message access from not accepted. 	ynced and downloaded to ccess to phonebook AND date the correct date and ld be available under If the button is gray, then the phone was most likely	
 Does the screen show correct date and GMT time NO: YES: Note the number of satellites acquired, if none, note the number of satellites acquired, if none, note the number of a readily access to open sky. 	ne? nove the	If the messages buttor pairing and repair the describes the access common types of devi Android phones. NOTE vary between device n	If the messages button is grey, delete the phone pairing and repair the phone. The next section describes the access procedure for the most common types of devices: Apple iPhones and Android phones. NOTE: This procedure could vary between device models.	
 If system does not show correct time while parked open sky, investigate GPS antenna. Confirm the antenna is connected and fully seated into the graconnector on the head unit. Also, make sure ther damage to the cable/antenna. 	ed in GPS rey fakra re is no			
	And	droid Phones	iPhone	
Image: Sector Votage Marging Back Mar	O pa th po us 6. PI Yo up hi to	nce the phone is aired to the head unit, e phone will display a op-up prompting the ser to accept access to honebook. Select "Allow". ou may receive follow o messages for phone story and messages, ake sure to allow access all of them.	After pairing, access must be enabled on the phone. To do this, go to Settings -> Bluetooth -> Select the paired head unit labeled "Subaru BT " and make sure both Sync Contacts and Show Notifications are enabled.	



For other clock issues please fill out the information below.			
1.	Clearly describe the issue below:		
2.	Can the concern be reproduced? NO: YES: If so, please list the steps to duplicate it below. Attach steps and the issue observed. 1. 2. 3. 4. 5.	video (preferred) or pictures if possible showing the 6. 7. 8. 9. 10.	
Comme	ents:		

GPS/Navigation Concerns

Please answer the following for concerns in which the customer has described experiencing issues dealing with the navigation feature.

For issues with GPS accuracy please answer the questions below. If not, skip this section and move on to the next applicable section.				
1.	Can the concern be reproduced? NO: If so, please provide steps to duplicate in and concern. 1. 2. 3. 4.	YES: t, and if possible	e, attao 6. 7. 8. 9.	ch a video (preferred) or pictures showing the steps
2.	Is the concern observed in a specific location? NO: YES:	If GPS accuracy is always poor regardless of route.	3.	<text></text>
	If the "Auto" setting is selected	₽	4.	Verify the system has accuired satellite signal as indicated by the "# of Receptions" field. Yellow markers indicate number of satellites acquired. If possible, capture/attach a picture of this screen as well.
3.	Please note the start and end point of the with where along the route the concern Include a video (Preferred) or pictures s steps and the issue observed.	ne route along is observed. howing the	5.	If no signal is observed, ensure the vehicle is in clear sky. If the vehicle is still does not have signal, investigate GPS antenna. Confirm the GPS antenna is connected and fully seated into the grey fakra connector on the head unit. Also, confirm there is no damage to cable/antenna.
			6.	If issue persists after checking GPS antenna, try swapping head units with a known good vehicle. Is the concern resolved? NO: YES:
				If the "Auto" setting is selected
				Request exchange for suspect component.

CarPlay/Android Auto Concerns

Please answer the following for concerns in which the customer has described experiencing issues dealing with the phone projection feature.

For not	issı , ski	ues p th	with CarPlay or is section and m	Android A love on to	uto conn the next	ections, one.	please answer the questions below. If
1.	Can If so and 1. 2. 3. 4. 5.	the c , plea conc	oncern be reproduce se provide steps to c ern.	ed? NO: duplicate it, a	YES: and if possik	ole, attach a 6. 7. 8. 9. 10.	video (preferred) or pictures showing the steps
2.	Verif if po	iy the ssible	USB cable used is c e.	ertified Appl	le cable (in	the case of	CarPlay), and is not damaged. Try another cable
3.	Ensi	ure A		ay is enabled	a without an	ly restriction	For Android Auto
For CarPlay Ensure Restrictions for CarPlay is disabled under Settings -> General -> Restrictions. If the slider is green as shown below then CarPlay is NOT restricted (CarPlay is operational). If the slider is to the left then CarPlay is restricted. If CarPlay is restricted either move the slider to the right or press "Disable Restrictions"		For Android Auto Ensure Android Auto is set to accept new car connections. Open Android Auto -> Open the menu on the top left -> Settings -> Connected Cars -> Enable "Add new cars to Android Auto" as shown below.					
			Periad Restrictions AirDrop CarPlay iTunes Store Music Profiles & Posts iBooks Store Dedeeste				 ♦ ● ● F • • • • • • • • • • • • • • • • •

CarPlay/Android Auto Concerns

4.	Verify the phone OS version is up version number of the device and Device Make	o to date and the ap d the app. Device Model	op (CarPlay or A	Android Auto) is up to date. Please note the Device Software Version
	Cell Provider (if applicable)	Aj	op Name	App Version
5.	Try the device with a known good cables. If the issue still persists, more of these components? NO : If so, request exchange of suspect	d vehicle. If the app try swapping the he YES: ct component.	lication launche ead unit. Was ti	es successfully, swap USB hubs and hub ne concern addressed by addressing one or
		If the iss	sue still occurs.	₽
c	Try a similar device, does the issue Verify the user's device is a comp	ue still occur? NO: patible device.	YES:	
0.	Device Make	Device Model		Device Software Version
	Cell Provider (if applicable)			
For	other concerns with CarP	lay or Android	Auto, please	e answer the questions below.
1.	Clearly describe the issue below.			
2.	Can the concern be reproduced? If so, please list the steps to dupl issue observed. 1. 2. 3. 4. 5.	PNO: YES: icate it below. Inclu	ude a video (pre 6. 7. 8. 9. 10.	ferred) or pictures showing the steps and the
3.	Note the device model, version, a Device Make Cell Provider (if applicable)	and app version info Device Model	ormation below.	Device Software Version App Version
Con	nments:			

Please answer the following for concerns in which the customer has described experiencing issues dealing with Bluetooth connections, functionality (calls, phonebook, SMS, etc.).

Fo see	For issues with Bluetooth connections, please answer the questions below. If not, skip this section and move on to the next one.				
1	Can the concern be reproduced? NO: YES: If so, please provide steps to reproduce it and if poss a video (preferred) or pictures showing the steps and concern. 1. 2. 3. 4. 5. 6. 7. 8. 9.	ible, ible,			
2.	 a) Is the connection made at start up? NO: YE b) Is the connection dropped at some other point of operation? NO: YES: If No, Other (List): 	S: Connect Delete Phonebook Download			
3.	What is the phone model and OS version? Is the device listed in the compatible phones list on Subaru.com > For Owners > Bluetooth Compatib	Reorder			
4.	Is the device still paired to the head unit? NO: Confirm the device is in the paired device list located	/ES: under Settings -> Phone.			
5.	Is the head unit still listed as a paired device on the	phone? NO: YES:			
6.	Can the phone be manually reconnected through the Settings -> Phone -> Select the paired phone and	phone settings menu? NO: YES: select Connect.			
7.	If possible, try with a similar model phone. Is the con Phone Make Phone Cell Provider iOS/	cern reproducible? NO: YES: ne Model OS Version			





Once enabled, the iPhone must be disconnected then reconnected for the changes to apply for SMS download ONLY.

K Back	Galaxy S6 edge+	×
Disconnect		
Delete		
Phonebook I	Download	
Reorder		>

Regarding phone favorites: The head unit's favorite contacts list is not the same as the favorites listed internally on the phone. iPhone indicates transferring favorites, but this is not supported at this time. Head unit contact favorites can be set by selecting the contact on the head unit and selecting the star icon next to the number you want stored as a favorite.

3.



For issues with Bluetooth phone call handling, please answer the questions below. If not, skip this section and move on to the next one.

	Can the concern be reproduced? NO: If so, please provide steps to reproduce i concern. Please note the model, OS vers	YES: it and if possible, a video (preferred) or pictures showing the steps and sion, and service carrier of phone.	
	1.	6.	
1.	2.	7.	
	3.	8.	
	4.	9.	
	5.	10.	

For concerns regarding holding calls and swapping calls: NOTE: CDMA networks do not support this
functionality. Some phones may have the ability to perform these actions internally but in general, CDMA carriers (such as Sprint or Verizon) do not support these features.

For	other concerns with Bluetooth, pleas	se answer the questions below.
1.	Clearly describe the issue below.	
2.	Can the concern be reproduced? NO: Y If so, please list the steps to reproduce it below steps and the issue observed. 1. 2. 3. 4. 5.	ES: w. Attach a video (preferred) or pictures if possible showing the 6. 7. 8. 9. 10.
3.	What is the phone model and OS version? Phone Make Cell Provider Is the device listed in the compatible phones I NO: YES:	Phone Model iOS/ OS Version ist on Subaru.com > For Owners > Bluetooth Compatibility?
Com	ments:	

USB Concerns

Please answer the following for concerns in which the customer has described experiencing issues dealing with USB functionality.

For issues with USB detection, please answer the questions below. If not, skip this section and move on to the next one.

1.	Can the concern be reproduced? NO: YES: If so please provide steps to reproduce it and if possible, a video (preferred) or pictures showing the steps and concern. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Media > USB ★ Media > USB ★ Sleep Away ★ Bob Acri ★ Bob Acri ↓ 1/1 ↓ 00:16 ↓ Shuffle ↓ Shuffle ↓ Factory Settings > Connection ★ GPS NG MIC NG AUX ₩	Image: Constraint of the second s
2.	Is the USB recognized in the Media screen as shown? NO: YES:	USB 1 OK USB 2 NG SXM	
3.	Is the USB recognized in the connection check screen as shown? NO: YES: (Hold Home hard key and press the Tune Knob 6 times, then release the Home hard key).	CAN OK Connection Vehicle Signal Camera Setting Audio Check Connection Check screen	Microphone
4.	Confirm the USB hub connections are proper and confi harness (where applicable).	rm there is no damage to the USB cable or	r power
5.	Does the USB device work in a like vehicle? NO: Do other USB devices work in the suspect vehicle? NO	YES: D: YES:	
For	other issues with USB, please answer the qu	uestions below.	
1.	Can the concern be reproduced? NO: YES: If so please provide steps to reproduce it and if possible concern. 1. 2. 3. 4. 5.	e, a video (preferred) or pictures showing th 6. 7. 8. 9. 10.	ie steps and
	Does the USB device work in a like vehicle? NO:	YES:	
2.	If YES list: Vehicle Model Year Ma	ke Model	
	Please provide detailed information regarding the USB	device (Brand, device type, file system, tyr	es of files on
3.	device, etc.).		

Radio Preset Concerns

Please answer the following for concerns in which the customer has described experiencing issues dealing with Radio presets.

For ski	For issues with Radio Presets missing/deleted, please answer the questions below. If not, skip this section and move on to the next one.				
1.	Can the concern be reproduced? NO: YES: If so please provide steps to reproduce it and if possible, a video (preferred) or pictures showing the steps and concern. 1. 6. 2. 7. 3. 8. 4. 9. 5. 10.				
2.	Are all the presets missing? NO: YES: Is it only on a specific source? AM FM SXM OTHER Is it only a specific preset page?				
3.	Do the missing presets now say "initializing," "hold," blank, or something else?				
4.	Do all the presets return after performing an ignition cycle? NO: YES: (Note ignition cycle process is ignition off > door open / door close > wait 2 minutes > ignition on).				
For	other issues with Radio Presets concerns please answer the questions below.				
	Clearly describe the issue below.				
1.					
	Can the concern be reproduced? NO: YES: If so, please list the steps to reproduce it below. Attach a video (preferred or pictures if possible showing the steps and the issue observed.				

	1.	6.
2.	2.	7.
	3.	8.
	4.	9.
	5.	10.

Comments:

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:

	Lohor	Labor Time**			
Labor Description	Operation #	Legacy / Outback	Impreza / Crosstrek	Fail Code	
COMPLETION OF HARMAN G3 QUESTIONNAIRE ONLY, NO REPAIRS REQUIRED OR MADE (Admin. Expenses)	A101-113	0.3		ZSR-98	
OR					
AUDIO UNIT R&R (w/ Navigation)	B031-103	0.3	0.5		
COMPLETION OF HARMAN G3 QUESTIONNAIRE	C101-228	0.3			
0R					
AUDIO UNIT R&R (w/out Navigation) Use with Base and / or Plus -level Audio Units	B031-101	0.3	0.5	ZRM-43 (BASE) or	
COMPLETION OF HARMAN G3 QUESTIONNAIRE	C101-228	().3	ZRN-43 (MID)	

**See the Subaru Labor Time Guide for any additional applicable claim coding options.

IMPORTANT: E-mail/fax completed forms to FQA@subaru.com (this is not an interactive mailbox) or fax this form to e-mail/fax (856) 254-1305 when completed. This fax is for quality assurance purposes only. You will NOT receive any response from this fax. If you need assistance, please contact the SOA Techline. Techline MUST be contacted and a case opened BEFORE emailing or faxing in this form and/or any related documents. Include the case number on all documents then email or fax them to Techline at (856)-254-1423. Always attach a copy to the customer's service file or the repair order hard copy for your records.