

**Technical Service Bulletin** 

GROUP	NUMBER
RECALL	21-01-046H-2
DATE	MODEL(S)
DECEMBER, 2021	Kona Electric (OS EV)

SUBJECT:

KONA EV BATTERY INSPECTION, BMS SOFTWARE UPDATE, AND BATTERY REPLACEMENT (RECALL 200)

This bulletin has been revised to add a QR code and link that refers to a video of the TSB procedure. Note is added to Parts Information that Parts System may supersede an AS battery to RW or RA. Additional op codes have also been added to the Warranty Information table to specify replacement of battery ending in 'RW' or 'RA', if applicable.

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\*\*\*\*\*Dealer Stock and Retail Vehicles\*\*\*\*\*

Dealers must perform this Recall Campaign on all affected vehicles prior to customer retail delivery and whenever an affected vehicle is in the shop for any maintenance or repair.

When a vehicle arrives at the Service Department, access Hyundai Motor America's "Vehicle Information Screen (VIS)" screen via WEBDCS to identify open Campaigns.

**Description:** Some vehicles may experience a short circuit inside the high voltage battery cell. An electrical short within battery cell(s) increases the risk of a vehicle fire while parked, charging and/or driving. The Battery System Assembly (BSA) will be inspected, and if applicable may need to be replaced and/or the Battery Management System (BMS) software may need to be updated.

Applicable Vehicles: Certain 2019-2020MY Kona Electric (OS EV) vehicles

# IMPORTANT

- Follow the flowchart on pages 2-3 for the overall service procedure summary and refer to each specific section mentioned on the flowchart as more details are needed.
- Refer to TSB 21-EE-002H-1 "EV Battery Approval, Handling, and Replacement Procedures" for specifics related to BSA replacement including required tools and training. The to ol form in the TSB 21-EE-002H-1 only needs to be completed and submitted one time for tools approval.
- Refer to parts and warranty information of page-4 when ordering BSA after Prior Approval (PA) and for claim information related to this TSB.
- Campaigns T5V and/or P29 if still open for the vehicle, will not need to be completed once Recall 200 is fully completed. However P29 is required when interim releasing a vehicle waiting for a BSA.
- Dealers only having in ground center floor lifts cannot replace an EV Battery. Contact your region to discuss how to accommodate a customer that requires a BSA replacement.

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

To watch video of the TSB procedure, scan QR code or open: <u>https://vimeo.com/597455357/a559bdea14</u>



#### TSB 21-01-046H-1 2019-2020MY KONA EV RECALL 200 PROCEDURE SUMMARY: (2 pages)



	Rep	lace BSA detailed EV Battery Approval Process Handling and Replacement Procedures.
PA Declined	Battery Rep Submit Warranty PA a Test results with "Rep PA in saved (draft) sta Submit the PA and aw PA will be approved after Open Recall 200. GDS Battery Inspection " STUI photo uploaded of B Dealer Tools approved. Tech Training completed	As Repair Group "EV Battery". blace BSA" automatically generates a atus (enter manually if not created). vait approval. r these conditions are satisfied: "BSA REPLACE" result. Battery Label (S/N must be readable). by at least one Technician.
<u> </u>	Corrected the PA Denial Reason	Dealer Orders Parts     P/N:37501-K4051       • Battery System Assembly (BSA)     \$ R0M ID:6400       • 2019/MY: 37501-K4000AS     \$ 019/09/29
PA Decline Reason	How to Proceed	2020MY: 37501-K40xxAS*     *refer to vehicle's battery label to confirm the K40xx
No STUI battery label photo upload or BSA Serial NO. is unreadable from the label.	Check GDS for STUI photo and resubmit. If not found, follow section A page 5 of this TSB.	<ul> <li>(Order battery CSP with VIN and after PA Approval)</li> <li>Bolts (18 x P/N 37535-GI500QQH + 4 x P/N 37535-Q4050QQH)</li> <li>Coolant: (inspect color in vehicle or by vehicle mfg. date)</li> <li>Green Coolant - Vehicle mfg. date before 5/7/19: 1 qty. x 4L P/N 00232-19010 (50/50 water mix)</li> <li>Blue Coolant - Vehicle mfg. 5/7/19 and later:</li> </ul>
No GDS Battery Inspection Result	If already done and was printed/saved, then add as an attachment to PA resubmission. Follow section B pages 6-11 of this TSB if not done.	3 qty. x 2L P/N 00232-19091 (Do not mix w/water)  NON-INCIDENT VEHICLE: Release after setting vehicle AVN Max % Charge setting to 80% (claim P29 campaign if open).
No Tools	Service Manager follows TSB 21- EE-002H-1 Pages 5-6. Complete and send in the "Tool Acknowledgment Form" to <u>HyundaiTools@hmausa.com</u> and wait for reply that tools has been addressed and approved.	<ul> <li>Schedule back to replace BSA when tools and parts of hand.</li> <li>INCIDENT VEHICLE (EV light On and DTC P1AA6): Hold vehicle and place customer in alternative transportation.</li> <li>Replace BSA + Solits + Coolant ECU Update #707</li> </ul>
No Training	Technician follows TSB 21-EE- 002H-1 page 7 to complete online training.	ECU Upgrade
Past or Current Techline Case	Confirm 37501-KxxxxAS or 37501-KxxxxQQH BSA part was already installed in past (check battery label) or check with Techline if case is still in process and BSA will ship later. <b>Perform BMS Update #707</b> <b>after it is confirmed that an</b> <b>AS or QQH BSA is installed in</b> <b>the vehicle.</b>	Upload GDS STUI photo of replacement Battery Label. Comment as "New Battery"
		NOTE: Return the

per TSB 21-EE-003H

## Parts Information:

Part Number	Year	Description	Photo	Quantity	Remarks
<b>NOTE:</b> Battery System and replacing the BS <b>NOTE:</b> Enter P/N orce	em Assemb A. Order C der ending v	bly (BSA) replacement must CSP with VIN and after PA A with <b>AS,</b> however the parts s	have Warranty PA ap pproval. system may supersed	proval pric	or to ordering in RW or RA.
37501-K4000 <b>AS</b>	2019MY	Battery System Assembly (BSA)			All 2019MY
37501-K4001 <b>AS</b>		Battery System Assembly (BSA) (Unheated Battery)		1	Identify the correct 20MY Battery
37501-K4051 <b>AS</b>	2020MY	Battery System Assembly (BSA) <b>(Heated Battery)</b>			vehicle's Battery Label, but add AS to end of the P/N.
NOTE: Technician s	hould confi	rm color of coolant in the su	bject vehicle. Do not	mix coolar	nt colors.
00232-19010	Vehicle built <u>before</u> 5/7/19.	<b>Green</b> Coolant (standard coolant)		1 qty. x 4L bottle	Mix 50/50 with water.
00232-19091	Vehicle built 5/7/19 or later.	<b>Blue</b> Coolant (low conductivity type)		3 qty. x 2L Bottle	Do <u>not</u> mix with water.
37535-GI500QQH	2019-	Bolt & Washer Assembly		18	Must replace
37535-Q4050QQH	2020MY		18382	4	the old bolts.

## Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature	Cause
	11D043R2	BAR CODE READING AND BMS UPDATE	0.5 M/H	375A0-K4000		
	11D043R3	BAR CODE READING AND BSA REPLACEMENT (Parts ending in 'AS' used)	3.8 M/H	37501-K4000 <b>AS</b>		
	11D043R4	BAR CODE READING, BMS UPDATE AND BSA REPLACEMENT (Parts ending in 'AS' used)	4.1 M/H	37501-K4000 <b>AS</b>		
Kona Electric (OS EV)	11D043R6	BAR CODE READING AND BSA REPLACEMENT (Parts ending in 'RW' used)	3.8 M/H	37501-K4000 <b>RW</b>	D22	ZZ3
	11D043R7	BAR CODE READING, BMS UPDATE AND BSA REPLACEMENT (Parts ending in 'RW' used)	4.1 M/H	37501-K4000 <b>RW</b>		
	11D043R8	BAR CODE READING AND BSA REPLACEMENT (Parts ending in 'RA' used)	3.8 M/H	37501-K4000 <b>RA</b>		
	11D043R9	BAR CODE READING, BMS UPDATE AND BSA REPLACEMENT (Parts ending in 'RA' used)	4.1 M/H	37501-K4000 <b>RA</b>		

**NOTE 1:** Additional reimbursement of 0.3 M/H has been included for 11D043R3~11D043R9 claims for unpackaging/handling/repacking the EV battery per procedure of TSB 21-EE-002H-1, and Max Charge %SOC adjustment to 80% if needed to interim release a non-incident vehicle prior to parts arrival. If Service Campaign P29 is also open on the vehicle, please ensure a campaign claim is also submitted for P29 to close it.

**NOTE 2**: Submit Claim on Campaign Claim Entry Screen.

**NOTE 3**: If a part not covered by this campaign is found in need of replacement while performing this Recall Campaign and the affected part is still under warranty, submit a separate warranty claim using the same Repair Order. If the affected part is out of warranty, submit a Prior Approval Request for goodwill consideration prior to performing the work.

**NOTE 4:** Failure to include the necessary original and replacement battery labels in STUI according to the flowchart on pages 2-3 will result in delay of claim payment.

Service Procedure: NOTE: Follow the flowchart of pages 2-3 and refer to these sections as needed.

- A. GDS Tablet STUI Camera Photo Uploads to HMA as required:
- A-1 Connect GDS STUI and VCI with ignition ON.

Perform **AUTO VIN** to ensure that vehicle's VIN is captured.

A-2. Locate the battery label on the Battery System Assembly (BSA) at the rear of the vehicle as shown.

A-3. Use STUI camera photo upload function to Save and Submit photo to HMA of the BSA labels.

> *IMPORTANT:* Use a shop light to light up the battery label area and tap the tablet screen at the image of the label to ensure a clear image of the label. The S/N next to the barcode must be clear and visible.

Following Photos are required to be submitted to HMA by STUI: BSA Replacement Cases:

- Original Battery Label
- Replacement Battery Label.





## KONA EV BATTERY INSPECTION, BMS SOFTWARE UPDATE, AND BATTERY REPLACEMENT (RECALL 200)

## B. BATTERY INSPECTION BY GDS:

- B-1. Make sure VCI is connected to the vehicle.
  - Keep ignition ON.
  - Within GDS vehicle selection screen select correct vehicle (A).
  - Perform AUTO VIN (B).

- B-2. Select S/W Management from the GDS Home Screen.
  - Select EV Battery System.
  - Select the Menu item as shown by (C)
     Check to cathode tab isolation coating of EV battery pack.

Hyundai Vehicle	Selection	
to Search vehicle, please insert VIN.		AUTO
		VEN ,
KONIQ TIYOTIG(AE HEV)		
IONIQ plug-in(AE PHEV)	I I	
bc20(JC)		
bx35 FCEV(LM FCEV)		
ix35(EL)		
ix55/VERACRUZ(EN)		
KONA electric(OS EV)	2021	150KW
KONA electric(OSe EV)	2020	
KONA electric(OSi EV)	2019	
KONA hybrid(OS HEV)	2018	
KONA(OS)	1 1	
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B-3. Note the instructions and select **OK**.

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		S/W Management	₽
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	Enable Condition	Compare the vel C h voltage battery LOT to the production determine if the insulation coating is applied.	
	Concerned Component	High Voltage Battery Pack	
	Concerned DTC		
	Fail Safe		
	Etc		



 B-4 • The following result screen will display if by the VIN check it is determined only a BMS Update may be required.

> NOTE: Per known vehicle production records the BSA already had the countermeasure cathode tab isolation coating, so BSA does not need to be replaced.

## KONA EV BATTERY INSPECTION, BMS SOFTWARE UPDATE, AND BATTERY REPLACEMENT (RECALL 200)

• The following result screen will display if by VIN check only a result is determined to **Replace BSA**.

## Warranty PA Approval:

- The GDS result should be automatically submitted to Warranty PA so they will be able to verify whether or not a vehicle qualifies for Replace BSA.
- It is recommended as a backup record, **Print** the result screen to attach to the Repair Order, or save GDS screenshot on the tablet.

B-5. This screen will occur when it is not possible to determine a result based on VIN only.

Inspection of the battery label will then need to occur to be able to determine a result.

The screen identifies where to locate the Battery Label on the vehicle.

Select OK to continue.

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	Check t	o cathode ta	ab isolation	coating	of EV batte	ery pack			
	This	is a vehicle t	hat needs	a BSA rep	lacement.		٦		
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	BSA	Serial NO.:	120030037						
	2011								
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B-6. Attempt to scan the battery label barcode locating it within the scan window (E) and with the red line inside the scan window oriented so it is across the length of the barcode.

> Use a shop light to light the battery label area. **NOTE:** The vertical position of the battery label on the back of the battery varies by vehicle. Depending on position of the battery label try these 2 different ways to attempt to scan:

• When battery label is lower down on the back of the battery, and is visible from below. Try to scan from below like this:



• When battery label is higher up on the back of the battery, it is difficult to view behind the rear cross member. Try scanning with the tablet in between the rear cross member and rear stabilizer bar like this:





## KONA EV BATTERY INSPECTION, BMS SOFTWARE UPDATE, AND BATTERY REPLACEMENT (RECALL 200)

NOTE: It may prove impossible to achieve a successful scan of the barcode using some earlier level GDS tablets, with poor condition of the battery label, or with difficulty to access position of the label.

- If bar code recognition is not possible by the GDS scan attempt, press the Manual button (F).
- Enter the 15-digit battery serial number (S/N) located next to the barcode in to the GDS field (G) and select **OK**.

**NOTE:** If you are having difficulty reading the 15-digit S/N on the vehicle, use a phone to take a photo of the battery label and zoom in to view the S/N.

• Select **OK** to continue.

S/W Management  Check to cathode tab isolation coating of EV battery pack
Check to cathode tab isolation coating of EV battery pack
Align the horizontal lines on the screen to the barcode so that it can be recognized.
CANCEL] button : Manual bar code entry.     CANCEL] button : End optional function.      [Example]     QR code zone
Manual
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S/W Management
<ul> <li>Check to estimate the instation costing of EV battery mark 1</li> </ul>
Evneck to callode tab isolation coating of EV battery pack [     Manually anter the 15 divite of the biob voltage battery LOT serial number
[OK] button : Check result.
[CANCEL] button : End optional function.
G

ок

Cancel

B-7. The following result screen will display if by S/N check it is determined only a BMS Update may be required.

NOTE: This result will not require BSA replacement, only BMS Update needs to be performed for the Recall 200.

• Select OK to submit the result to HMA

 The following result screen will display if by S/N check it is determined to **Replace** BSA.

## **IMPORTANT for Warranty PA Approval:**

- The GDS result will be automatically submitted to Warranty PA so they will be able to verify whether or not a vehicle qualifies for Replace BSA.
- It is recommended as a backup record,
   Print the result screen to attach to the Repair Order, or save GDS screenshot on the tablet.
- Select OK to submit the result to HMA.

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	Check 1	to cathod	e tab isolat	tion coatii	ng of E	V battery	pack			
	Chec [BMS	k for BM Update]	S module u	ıpdates.						
	VIN:	КМ8КЗЗ/	AG2LU0897	771						
	BCV	Serial NO	. 0805200	800083	A/					
	DOA	Senariao	0005200	0000000	**					
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	[OK]	button: E	nd optiona	I function.						
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<b>A</b>	HOME Check t This [Repl VIN: 1 BSA :	Online o cathod is a vehic ace BSA] KM8K23/ Serial NO	e tab isolat le that nee AG4LU0586	KONA elec Battery Ma S/W M tion coatia ds a BSA	replac	p20/150KW ent System gement V battery ement.	pack	VCI ¥	13	36
	Home Check t This [Repl VIN: 1 BSA : [PRII]	Online o cathod is a vehici ace BSA] KM8K23/ Serial NO	e tab isolat le that nee AG4LU0586 .: n: Save Scr	KONA elec Battery Ma S/W M tion coatin ds a BSA 537	replac	gement V battery ement.	pack	VCI \$		36
	Home Check t This [Repl VIN: 1 BSA : [PRIN [OK]	Online o cathod is a vehici ace BSAJ KM8K23/ Serial NO Serial NO IT] button: Er	e tab isolat le that nee AG4LU0586 .: n: Save Scr nd optional	KONA elec Battery Mr S/W M tion coatii ds a BSA 537 een and P I function.	etri/20 anagem lanaç ng of E replac	p20/150KW ent System gement V battery ement.	pack	VCI \$	•	8
	HOME Check t [Repl VIN: 1 BSA : [PRIN [OK]	Online o cathod is a vehici ace BSA] KM8K23/ Serial NO Serial NO	e tab isolat le that nee AG4LU0586 .: n: Save Scr nd optional	KONA elec Battery Mr S/W M tion coatin ds a BSA 537 537	etri/2( magem lanagem lanag replac	p20/150KW ent System gement V battery ement.	pack	VCI ¥		22
	HOME Check t This [RepI VIN: BSA: [PRIN [OK]	Online o cathod is a vehici ace BSA] KM8K23/ Serial NO Serial NO IT] buttor: Er	e tab isolat le that nee AG4LU0586 .: n: Save Scr nd optional	KONA elec Battery Mi S/W M tion coatil ds a BSA 537 een and P I function.	replac	gement V battery ement.	pack	vci \$	•••	25
	HOME This (Repl VIN: I BSA (PRIN [OK]	Online o cathod is a vehic ace BSA] KM8K23/ Serial NO Serial NO HT] button: El	e tab isolat le that nee AG4LU0586 .: n: Save Scr nd optional	KONA elec Battery M: S/W M tion coatin ds a BSA 337 een and P I function.	lanaçem ng of E replac	p20/150KW ent System gement V battery ement.	pack	vci \$		25
	HOME This [Rep] VIN: BSA : [PRIM [OK]	Online o cathod is a vehic ace BSA] KM8K23/ Serial NO Serial NO	e tab isolat le that nee AG4LU0584 .: n: Save Scr nd optional	KONA elec Battery Mi S/W M tion coatin ds a BSA 537 eeen and P I function.	stri/2d anagem lanag mg of E replac	gement V battery ement.	pack	VCI ¥	¢ <del>j</del>	56
	HOME This [Rep] VIN: BSA : [PRII [OK]	o cathod o cathod ace BSA] KM8K23/ Serial NO IT] buttor button: Er	e tab isolat le that nee AG4LU0586 .: n: Save Scr nd optional	KONA elec Battery Mi S/W M tion coatif ds a BSA 537 een and P I function.	rtri./22 anagem lanaç ng of E replac	gement V battery ement.	pack	vci \$		56
	HOME This [Repi VIN: I BSA : [PRIN [OK]	Online o cathod is a vehic ace BSA] KM8K23/ Serial NO Serial NO	e tab isolat le that nee AG4LU0586 .: n: Save Scr nd optional	KONA elec Battery Mr S/W M tion coatin ds a BSA 537 een and P I function.	rtri./22 anagem lanag ng of E replac	ement.	pack	vci \$		25
	HOME This [Repl VIN: BSA : [PRIN [OK]	o cathod is a vehic ace BSA] KM8K23/ Serial NO	e tab isolat le that nee AG4LU058d .: n: Save Scr nd optional	KONA elec Battery Mi S/W M tion coatin ds a BSA 537 eeen and P I function.	replac	p20/150KW ent System gement V battery ement.	pack	vci \$	6	56
	HOME This [Rep] VIN: BSA : [PRIII [OK]	o cathod is a vehici ace BSA] KM8K23/ Serial NO IT] buttor button: El	e tab isolat le that nee AG4LU0586 .: n: Save Scr nd optional	KONA elec Battery Mi S/W M tion coatif ds a BSA 537 een and P I function.	rtri./22 anagem lanaç ng of E replac	gement V battery ement.	pack	VCI ¥		56
	HOME This [Repi VIN: 1 BSA : [PRIN [OK]	o cathod is a vehic ace BSA] KM8K23/ Serial NO IT] button button: El	e tab isolat le that nee AG4LU0586 .: n: Save Scr nd optional	KONA elec Battery Mr S/W M ds a BSA 537 een and P I function.	stri/2( anagem lanag ng of E replac	ement.	pack	vci \$		25
	HOME This [Repl VIN: BSA: [PRIM [OK]]	o cathod is a vehic ace BSA] KM8K23/ Serial NO IT] buttor button: Ef	e tab isolat le that nee AG4LU0584 .: n: Save Scr nd optional	KONA elec Battery Ma S/W M tion coatia ds a BSA 537 eeen and P I function.	replac	p20/150KW ent System gement V battery ement.	pack	vci \$		56
	HOME This [Rep] VIN: BSA : [PRIII [OK]	Online o cathod ace BSAJ KM8K23/ Serial NO IT] buttor button: El	e tab isolat le that nee AG4LU0586 .: n: Save Scr nd optional	KONA elec Battery Ma S/W M tion coatia ds a BSA 537 een and P I function.	rrinter.	ement.	pack	vci \$		56

## KONA EV BATTERY INSPECTION, BMS SOFTWARE UPDATE, AND BATTERY REPLACEMENT (RECALL 200)

## C. BATTERY SYSTEM ASSEMBLY (BSA) REPLACEMENT:

- Refer to TSB 21-EE-002H-1 for the complete instructions for EV Battery Approval, Handling, and Replacement Procedures.
- Battery System Assembly (BSA) can only be ordered and replaced once Warranty PA approval has been secured.



## D. GDS AUTO MODE BMS UPDATE PROCEDURE:

System	Event #	Description
BMS	707	OS EV High Voltage Battery Update or Replacement (2nd Recall)

D-1. Select ECU Upgrade on the initial screen after ensuring the correct vehicle and VIN information.

٩	
_	_
2021	150KW
2020	
2019	
2018	
	<b>2021</b> 2020 2019 2018

HOME Online	KON	A electri/2020/150K	w	vci 🗱 😽 🔛
		ECU Upgrade		P   P
📾 KONA electric(0	SEV) > 2020 >	150KW		
System				
< MARKET				>
ROM ID				
Currently in Vehicle				ID Check
Latest Update				
Event Group				
	Previous		Upgrade	

- D-2. Select Auto Mode.
- D-3. Select the BMS system.
- D-4. Select ID check.
- D-5. The GDS will read the current ROM ID in vehicle and check for the newest upgrade event.

## KONA EV BATTERY INSPECTION, BMS SOFTWARE UPDATE, AND BATTERY REPLACEMENT (RECALL 200)

- <u>NOTE</u>: The following screen will appear had the BMS Update already been applied. BMS Upgrade is not required so do not include a claim for BMS Upgrade.
- Skip to step E to adjust the AVN setting Max Charge % back to 100%
- If the BMS Upgrade event is required, GDS will read the current ROM ID in vehicle and display the latest upgrade event.

- D-6. Select the upgrade event, "707.OS EV High Voltage Battery Update or Replacement (2nd Recall)".
- D-7. The vehicle battery voltage is checked to make sure it is at least 12 volts to assure reliable upgrade results. Click OK if the results indicate voltage is ok.

# NOTICE

If battery voltage is below 12 voltages as below, click BACK and then operate the vehicle in Ready mode for a few minutes to assure an adequate battery charge state for reliable upgrade results.

- D-8. Upgrade (1/2) will begin and progress until 100% is reached.
- D-9. Upgrade (2/2) will begin and progress until 100% is reached.





### KONA EV BATTERY INSPECTION, BMS SOFTWARE UPDATE, AND BATTERY REPLACEMENT (RECALL 200)

- D-10. Turn the ignition key off for 10 seconds, place it back in the key on position and then tab OK to continue according to information displayed on the screen.
- D.11 Select OK on the final screen which indicates upgrade is complete.
- D-12. Check if any incidental Diagnostic Trouble Codes (DTC) have been created by the upgrade and clear the DTC(s) present.

Set the vehicle in Ready mode to confirm proper operation of the vehicle.

E. Adjust the AVN system Max Charge % settings for both DC Charger and AC Charger back to 100% in the Energy Information screen.



F. Refer to TSB 21-EE-003H for the procedure to prepare and arrange for battery core pickup.

## **ROM ID Information Table:**

BMS P/NO	ROM ID		
	PREVIOUS	NEW	
	5300		
	5400		
	5500		
	5700		
	5800		
	5900		
	6000		
375A0-K4050	6020	6820	
	6040		
	6050		
	6060		
	6070		
	6080		
	6090		
	6100		
	5302		
	5402		
	5502		
	5702		
	5802		
	5902		
	6002		
375A0-K4000	6022	6822	
	6042		
	6052		
	6062		
	6072		
	6082		
	6092		
	6102		
	5304		
F	5404		
275 40 1/4450	5504	6804	
31 3AU-K445U	5704	0824	
Ē	5804		
	5904		

375A0-K4450	6004	
	6024	
	6044	
	6054	
	6064	6824
	6074	0824
	6084	
	6094	
	6104	
	5306	
	5406	
	5506	
	5706	
	5806	
	5906	
	6006	
	6026	
375A0-K4400	6046	6826
	6056	
	6066	
	6076	
	6086	
	6096	
	6106	
	6200	
	6220	
	6240	
	6540	
	6550	
275 40 1/4054	6560	6820
375AU-K4051	6570	6820
	6580	
	6590	
	6600	
	6202	
	6222	
	6242	
375A0-K4001	6542	6822
	6552	

SUBJECT:	KONA EV BATTERY INSPECTION, BMS SOFTWARE UPDATE, AND BATTERY REPLACEMENT (RECALL 200)		
	6562		
375A0-K4001	6572		
	6582	6822	
	6592		
	6602		
	6204		
	6224		
	6244		
	6524		
	6544		
375A0-K4451	6554	6824	
	6564		
	6574		
	6584		
	6594		
	6604		
	6206		
	6226		
	6246		
	6526		
	6546		
375A0-K4401	6556	6826	
	6566		
	6576		
	6586		
	6596		
	6606		
	6400		
	6500		
	6700		
	6730		
37540-14/052	6740	6820	
575AU-IN405Z	6770	0020	
	6780		
	6790		
	6800		
	6900		

	BATTERY REPLACEN	1ENT (RECALL 200)	
	6402		
375A0-K4002	6502		
	6702		
	6732		
	6742	6822	
	6772	6822	
	6782		
	6792		
	6802		
	6902		
	6504		
	6734		
	6744		
27540 14452	6774	6824	
373AU-R443Z	6784	0024	
	6794		
	6804		
	6904		
	6506		
	6736		
	6746		
37540-K1102	6776	6826	
37370-114402	6786	0020	
	6796		
	6806		
	6906		
	6960		
375A0-K4053	6980	7040	
	7020		
	6962		
375A0-K4003	6982	7042	
	7022		
	6964		
375A0-K4453	6984	7044	
	7024		
375A0-K4403	6966	7046	

KONA EV BATTERY INSPECTION, BMS SOFTWARE UPDATE, AND

SUBJECT:

F. MANUAL UPGRADE PROCEDURE USING GDS-MOBILE

## NOTICE

- The manual upgrade should only be performed if the automatic upgrade fails.
- If automatic upgrade fails, turn the ignition key off for about 10 seconds, then place it back to the on position to reset the control unit before performing manual upgrade.
- G-1. Within the upgrade screen, select Manual Mode, then select upgrade event.

HOME Online	KONA electr	i/2021/150	жж	VCI 🖇	
	ECU I	Jpgrade			
➡ KONA electric(OS	EV) > 2021 > 1	150KW			
System					
ABS/ESP	BMS				>
Event Group					TSB
996.OS EV I	High Voltage Batte	ery Update	or Replaceme	ent (2nd	A state
OS EV BMS 375A	0-К4050				
OS EV BMS 375A	D-K4000				
OS EV BMS 375A	D-K4450				
OS EV BMS 375A	D-K4400				
OS EV BMS 375A	D-K4051				
OS EV BMS 375A	D-K4001				
OS EV BMS 375A	D-K4451				
OS EV BMS 375A	D-K4401				
Latest Update	6820				
Pr	evious		Upgrade		
Inform	nation				
Do not touc	h any system bu	ttons while	e performing	this func	tion.
	1	0	<		

G-2. It is important to select the correct BMS part number with reference to the above ROM ID Information Table and select OK.



G-3. Enter the password from the table below, then touch OK.

# 707.OS EV High Voltage Battery Update or Replacement (2nd Recall)

MENU	PASSWORD
OS EV BMS 375A0-K4050	4050
OS EV BMS 375A0-K4000	4000
OS EV BMS 375A0-K4450	4450
OS EV BMS 375A0-K4400	4400
OS EV BMS 375A0-K4051	4051
OS EV BMS 375A0-K4001	4001
OS EV BMS 375A0-K4451	4451
OS EV BMS 375A0-K4401	4401
OS EV BMS 375A0-K4052	4052
OS EV BMS 375A0-K4002	4002
OS EV BMS 375A0-K4452	4452
OS EV BMS 375A0-K4402	4402
OS EV BMS 375A0-K4053	4054
OS EV BMS 375A0-K4003	4004
OS EV BMS 375A0-K4453	4454
OS EV BMS 375A0-K4403	4404

G-4. The remaining steps are identical to the steps located in the Automatic Upgrade Procedure