



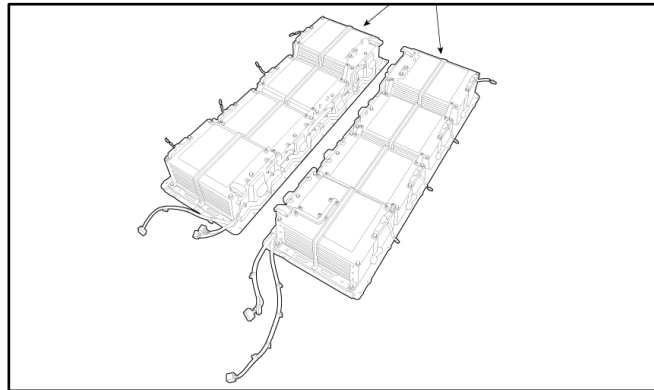
GROUP	MODEL
Subsequent Repair Action	2015-2019MY Soul EV (PS EV)
NUMBER	DATE
SC267Z	September 2023

## SUBSEQUENT REPAIR ACTION

# HIGH-VOLTAGE BATTERY PACK ASSEMBLY REPLACEMENT (SC267Z)

SUBJECT:

This bulletin provides information to replace the high-voltage battery pack assembly (HV BPA) on certain 2015-2019MY Soul EV (PS EV) vehicles produced from July 15, 2014 through September 28, 2018. After completing SC267 with the battery management system (BMS) software upgrade, the subject vehicles may subsequently require the replacement of the HV BPA due to MIL ON with a BPA related DTC(s). Follow the procedure outlined in this publication to scan the vehicle for related DTC(s), replace the HV BPA and if applicable, swap the voltage and temperature sensor harness (on 15-17MY vehicles only). Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.



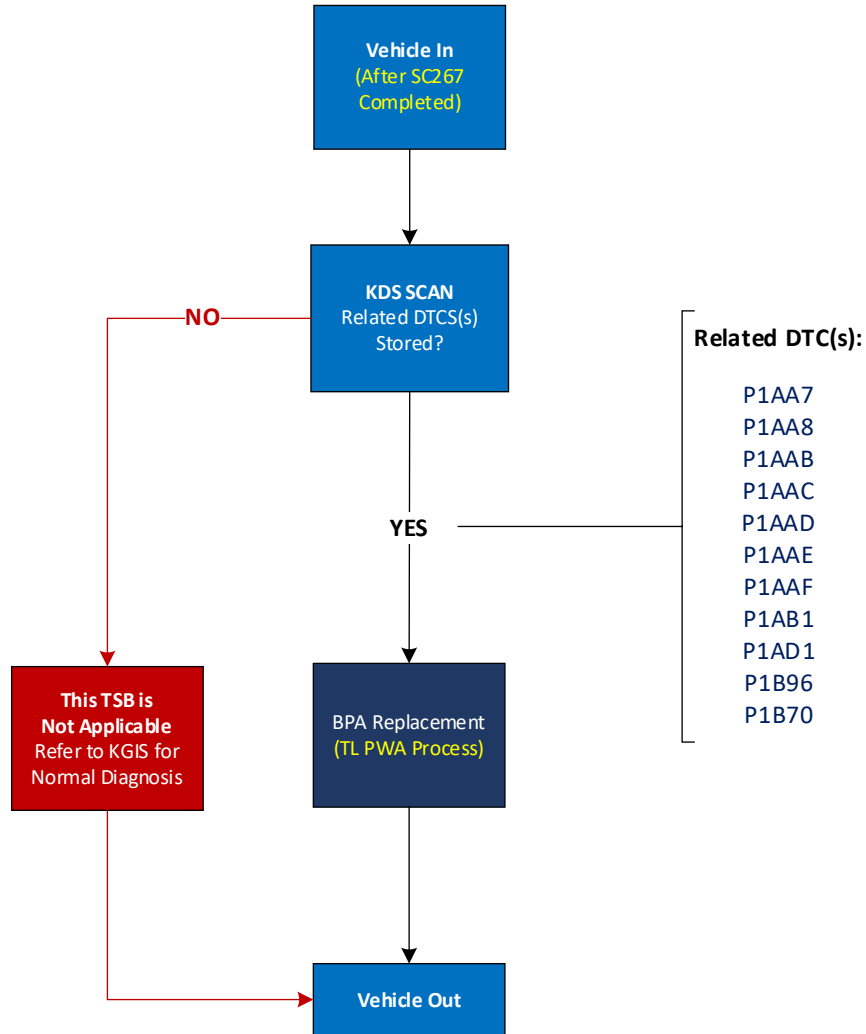
### NOTICE

To assure complete customer satisfaction, always remember to refer to **KDealer+ Warranty Coverage (validation) Inquiry Screen (Service → Warranty Coverage → Warranty Coverage Inquiry)** for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.

SUBJECT: **HIGH-VOLTAGE BATTERY PACK ASSEMBLY REPLACEMENT (SC267Z)**

**Flowchart:**

This publication is only applicable on a subject vehicle that has already had SC267 completed on a previous visit which has the latest BMS software. The subject vehicle must have one or more of the related DTC(s) stored listed in this publication in order to claim the BPA replacement. Any other DTC stored must be diagnosed by referring to KGIS and may not be claimed under this Subsequent Repair Campaign.



**❗ IMPORTANT**

**For 2015-2017MY ONLY** new **BPA** is equipped with an “old” type harness. **Be sure to swap/install the “new” type harness from the previous repair under SC267. TL PWA is required for HV BPA replacement. Dealer should follow the process included in TSB ELE044 and obtain TL PWA . Claim submission concerns WILL occur if the dealer does not obtain TL PWA for HV BPA replacement.**



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**HIGH-VOLTAGE BATTERY PACK ASSEMBLY REPLACEMENT (SC267Z)****⚠ WARNING**

Be sure to read and follow the 'General Safety Information and Caution', the 'High Voltage Shut-Off Procedures' and 'High Voltage Battery Handling Guide' instructions outlined on KGIS before doing any work related with the high voltage system. Failure to follow the safety instructions may result in serious electrical injuries.

**BPA Replacement Procedure:**

1. Replace the HV BPA by referring to "EV Battery System → High Voltage Battery System → Battery Pack Assembly → Repair procedures (Removal)" in the applicable Shop Manual on KGIS. **Note: Dealer must obtain TL PWA.**

**ⓘ IMPORTANT**

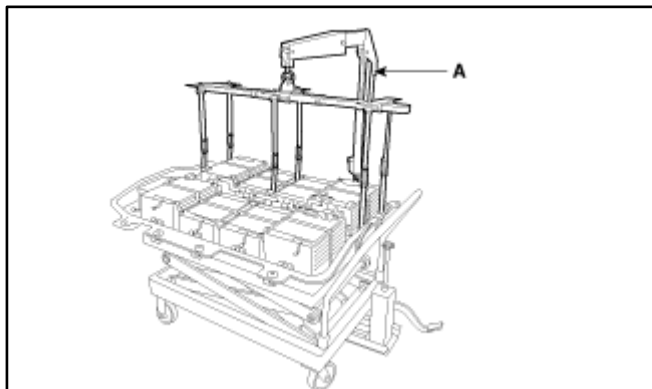
**15-17MY ONLY** new **BPA** is equipped with an "old" type harness. **Be sure to swap/install the "new" type harness.**



2. **Note:** SST OK375 E4300 and crane jack are required.

**📄 NOTICE**

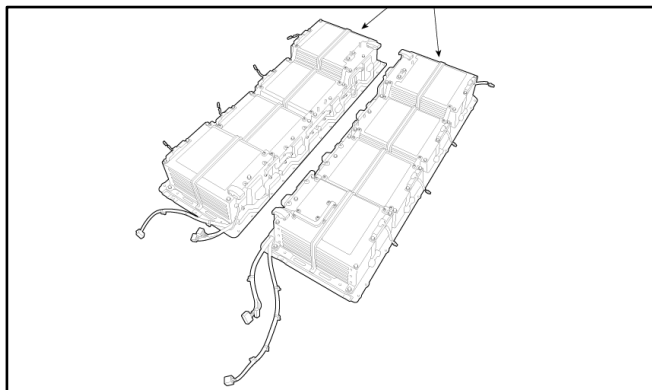
Place the removed BPA on a clean flat surface. **Dealer should follow the process included in TSB ELE044 and obtain TL PWA.**



3. **Note:** The battery pack assembly (BPA) consists of two (2) (left and right) battery packs.

**ⓘ IMPORTANT**

**18-19MY ONLY** new **BPA** is equipped with the "new" type harness. **There is no need to swap.**

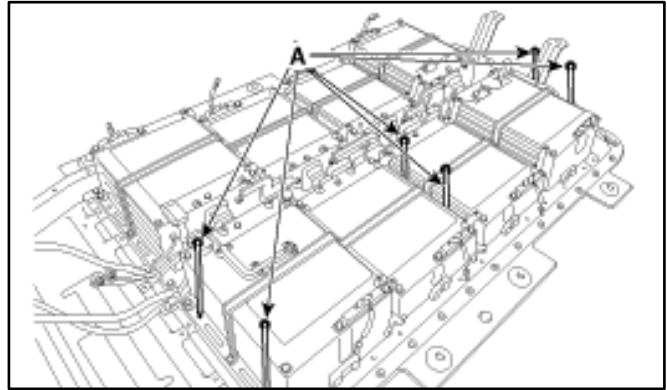


4. Reinstall all removed parts in the reverse order of removal.
5. Clear related DTC(s) using KDS.
6. Confirm normal vehicle operation.

**VTSWH Replacement Procedure: (15-17MY Only)**

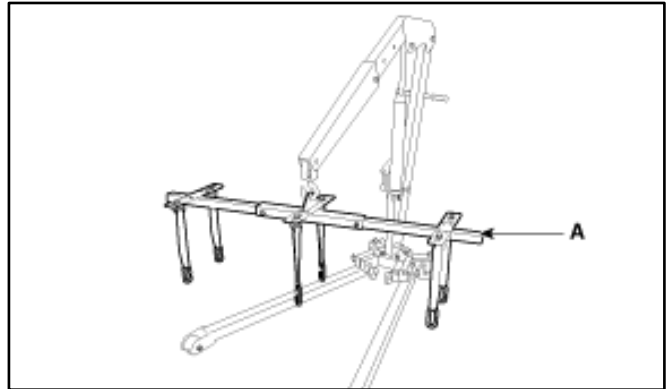
1. Carefully remove ONLY ONE (1) (left or right) side battery pack assemblies.

Refer to the “EV Battery System → High Voltage Battery System → Battery Pack Assembly → Repair procedures (Removal)” in the applicable Shop Manual on KGIS for detailed instructions.

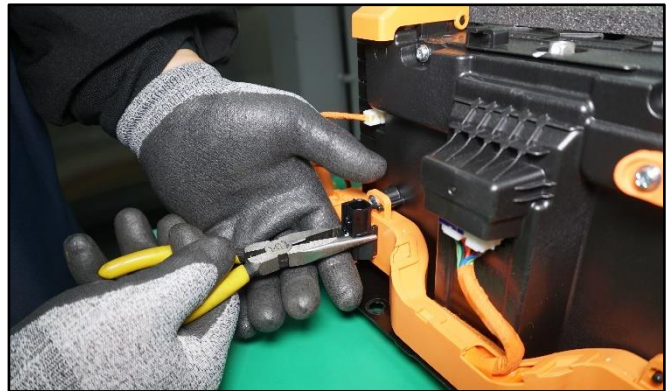


**Note:** SST OK375 E4300 and crane jack are required.

2. Place the battery on a clean and flat bench surface area.

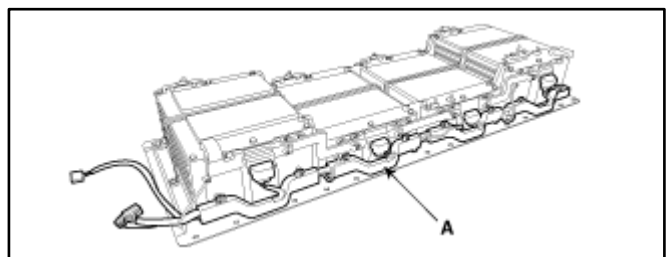
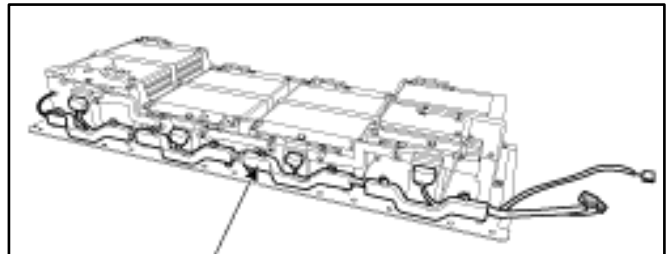


3. Remove the existing voltage and temperature sensor wiring harness (VTSWH) retaining screws for both (left and right) battery packs.



4. Replace the two voltage temperature sensor wire harnesses (VTSWH) with the new parts.

**Note:** The new harness is different for the removed harness when compared side by side.



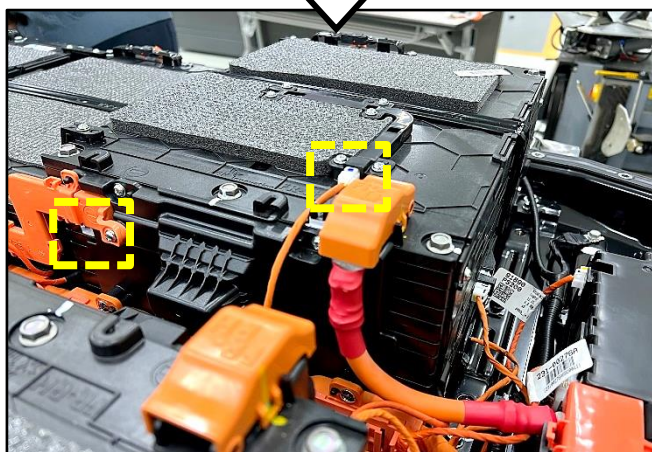
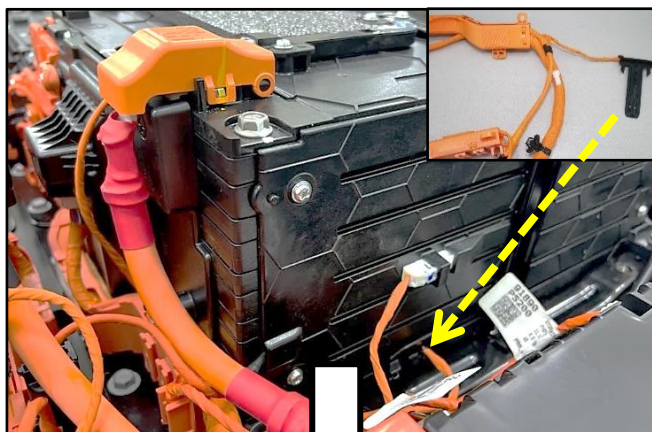
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5. During re-assembly, insert the battery temperature sensor into the battery pack lower side area shown.
6. Connect the outside temperature sensor connector where shown.

**Note:** Some vehicles may have a connector hole. If so, disregard, no need to connect to it.

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7. Reinstall all removed parts in the reverse order of removal.
8. Clear related DTC(s) using KDS.
9. Confirm normal vehicle operation.




## SUBJECT: HIGH-VOLTAGE BATTERY PACK ASSEMBLY REPLACEMENT (SC267Z)

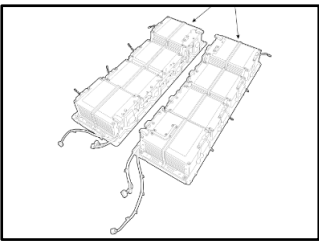
## AFFECTED VEHICLE RANGE:

Model	Production Date Range
15-17MY Soul EV (PS EV)	July 15, 2014 to June 30, 2017
18-19MY Soul EV (PS EV)	July 3, 2017 to September 28, 2018

## REQUIRED TOOL:

Tool Name	Part Number	Figure	Comments
BPA Lifting Jig	OK375 E4300		To be used along with an engine crane/hoist.

## REQUIRED PART:

Part Name	Part Number	Figure	Qty.	Comment
Battery Pack Assembly (BPA)* <i>(15-17MY only are equipped with an original/old VTSWH)</i>	37510 E4202R		1	Non-heated
	37510 E4252R			Heated
HV Battery Pack Assembly (BPA) (18-19MY)	37510 E4302R		1	Non-heated
	37510 E4352R			Heated

**\*Note:** For 15-17MY the 'new' BPA (left and right side battery packs) will require the 'new' previously installed VTSWH from (SC267) on the existing BPA to be installed/swapped onto the 'new' BPA.

**IMPORTANT:** The parts listed below DO NOT required replacement unless damaged or lost during removal.

Case Gasket (15-19MY)	37528 E4000QQK	N/A	1	Replace <u>only</u> if damaged
Bolt & Washer for BPA	11408 06166PQQK	N/A	1	3pc. Included per pack are needed.
Nut for VTSWH	37535 E4500QQK	N/A	1	

SUBJECT:

**HIGH-VOLTAGE BATTERY PACK ASSEMBLY REPLACEMENT (SC267Z)****WARRANTY INFORMATION:****N Code: N99 C Code: C99**

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
(PS EV) 15-17MY	R	37510 E4000	0	(SC267Z) DTC Scan (Related) + BPA Replacement + VTSWH Swap	231069R0	3.1 M/H	37510 E4202R or 37510 E4252R	1
							37528 E4000QQK	
							11408 06166PQQK	
							37535 E4500QQK	
(PS EV) 18-19MY	R	37510 E4000	0	(SC267Z) DTC Scan (Related) + BPA Replacement	231069R1	2.8	37510 E4302R or 37510 E4352R	1
							37528 E4000QQK	
							11408 06166PQQK	
							37535 E4500QQK	

**Note:** Refer to Warranty Bulletin 2023-30 for claim submission procedures. TL PWA is required for HV BPA replacement. Dealer should follow the process included in TSB E4044 and obtain TL PWA. Claim submission concerns WILL occur if the dealer does not obtain TL PWA for HV BPA replacement.

**NOTICE**

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SC267Z when accessing the KDealer+ system.

