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|  HYUNDAI Technical Service Bulletin | GROUP ELECTRICAL | NUMBER 19-EE-001H |
| | DATE JANUARY, 2019 | MODEL(S) SONATA HEV/PHEV, IONIQ HEV/PHEV/EV, KONA EV, TUCSON and NEXO FUEL CELL |
| SUBJECT: USED HEV/PHEV/EV/FUEL CELL LITHIUM BATTERY RETURN | | |

NOTE: This bulletin revises TSB# 17-EE-005 to add the Kona EV and Nexo Fuel Cell models.

Applicable Vehicle:

- Sonata HEV/PHEV (since 2011MY)
- Ioniq HEV/PHEV/EV (since 2017MY)
- Kona EV (since 2019MY)
- Tucson Fuel Cell (since 2015 MY)
- Nexo Fuel Cell (since 2019MY)

Description: This bulletin provides information on how to return a Hyundai HEV/PHEV/EV/Fuel Cell Lithium Battery for proper disposal and safe environmental recycling using Hyundai’s authorized vendor Kinsbursky Brothers Inc. (KBI).

The following are acceptable circumstances for battery return:

1. **Hyundai Dealer or Port replaces a Battery under warranty:**
 - All HEV/PHEV/EV/Fuel Cell Lithium Battery replacement part orders require a Techline case and must be approved by Techline. Techline will request release of a part order manually from Mobis. Dealer should not attempt to place an order for a Lithium Battery; it will automatically be canceled.
 - Warranty information such as DTC screenshots and complete BMS data including individual cell voltages will need to be supplied to Techline.
 - Techline will provide directions to follow this TSB for return of the replaced used Battery.

2. **Return of Hyundai HEV/PHEV/EV/Fuel Cell Battery at end of life by a Hyundai or non-Hyundai affiliated company:** The physical condition of the Battery must be fully declared to KBI in so far as whether there is any damage or odor; send pictures to show when applicable. The Battery must be located in a safe place for pickup. KBI may need to supply a box.

★ IMPORTANT

Hazmat Shipping Certification Regulation:

- Per strict Hazmat shipping regulations, you must accurately declare whether or not your facility personnel handling the battery shipment has been certified by an approved Hazmat shipping training program.
- If your facility’s personnel does not have the proper certification, it must be declared to KBI to arrange a HazMat shipping certified third party to handle inspection of packaging, shipping documentation and sign the shipping Bill of Lading. A separate form to be completed will be supplied by KBI once notified.

Circulate To: Service Manager, Technicians, Fleet Repair, Parts Manager





General Battery Return Instructions:

1. Inspect the Battery condition and note any physical damage or odor which must be declared.
2. Inspect the shipping box that the replacement battery was received in. Let KBI know if there is any significant damage. Notify KBI if you need a Hazmat shipping box because you did not receive one such as would be the case for returning an end of life battery.
3. Determine whether your facility has Hazmat shipping trained certified personnel.
4. Complete the Battery Return Request Form (next page) for each battery fully and accurately.
5. Email/Fax the completed Battery Return Request Form to KBI to request the return.
6. Once your Battery Return Request is received, KBI will supply a more specific Battery Return Document Package with more details and specifics for return of your particular battery.
7. If all paperwork and conditions are met, KBI will contact you to arrange the pickup once the battery has been prepared for shipment. A 3rd party inspection will be arranged for dealers that don't have the proper Hazmat certification.

*** NOTE**

Do not attempt to arrange your own shipment of your battery. It must only be done by KBI, and they will assume the full charge on behalf of Hyundai Motor America.

Hyundai HEV/PHEV/EV/Fuel Cell Lithium Battery Return Part Request / Warranty Receipt

| | | | |
|---|--|--|------------------|
| Hyundai Dealer#: | | Dealer Name/ Location: | |
| Parts Manager: | | Telephone and Email: | |
| Date: | | HazMat ship certified? | circle: Yes / No |
| Model Year / Model: | | VIN: | |
| Battery Part Number (include if known) | | Is battery damaged? If so, email full description with photos. | |
| | | circle: No / Yes | |
| <p>Procurement Method:</p> <ul style="list-style-type: none"> Complete one form per battery. Fill in the above. Send in this form to Kinsbursky Brothers Inc. (KBI) at below contact. KBI is the only Authorized Vendor of Hyundai Motor America to arrange return shipment of your Battery. <p>IMPORTANT: Your dealer must have HazMat training certification to be able to prepare the battery for shipping and sign shipping documents. Inform KBI if you don't have certification, then KBI will have to arrange a 3rd party inspection.</p> | | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Safety switch removed</p> </div> <div style="text-align: center;">  <p>Battery Shipping Container</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  <p>Terminals taped</p> </div> <div style="text-align: center;">  <p>Battery sealed by bag & taped</p> </div> </div> | |
| <p>General Battery Preparation and Packaging Instructions:</p> <p>Below are general instructions. KBI will provide more specific instructions for each type of battery.</p> <ul style="list-style-type: none"> Make sure the orange Safety Switch was removed and not left in the used battery. The safety switch should have been transferred to the replacement battery. Remove from end of life battery before shipping; refer to service manual if needed. Place the used battery into the shipping crate that you received the replacement battery. An example is shown in photo above. Note: If you did not receive a shipping crate contact KBI at the below contact. Put electrical insulating tape around battery that have 2 exposed main cable terminals like shown above. Put the battery inside the plastic bag when it was included with the new battery, and seal the bag with tape. Ensure proper installation of the carton fiberboard that is inside the shipping crate so that the battery will be secured and not move around in the container. Place the old battery inside the wooden crate. Make sure it does not rest on top of any loose cables. Secure the wooden container box cover using screws. | | | |
| <p>Notes:</p> <ul style="list-style-type: none"> Notify KBI at below contact if there is any damage to the outer battery case or to the battery itself. A copy of this Request/Receipt must be included with any correspondence and/or part shipment. Attach this form to your Battery Replacement Repair Order as a suitable Hyundai WTC receipt that the battery was returned to Hyundai Motor America's Authorized Battery Disposal Vendor KBI. | | | |

Kinsbursky Brothers, Inc. (KBI)

Call: 800-502-9258, or Fax: 714-510-2962, or Email: Info@evbattmgmt.com