

GROUP	NUMBER
RECALL	18-01-037
DATE	MODEL(S)
DECEMBER 2018	IONIQ HYBRID (AE HEV) IONIQ PLUG-IN (AE PHEV)

SUBJECT:

IONIQ HEV/PHEV MAIN RELAY / POWER RELAY ASSY REPLACEMENT (RECALL CAMPAIGN 178)

* IMPORTANT

*** Retail Vehicles ***

Dealers must perform this Campaign on all affected vehicles 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 "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.

Description: Ioniq HEV/PHEV vehicles contain a Power Relay Assembly ("PRA") located underneath the rear seat. The PRA is equipped with a main relay which may have been loosely installed during assembly. If the PRA continues to operate in this condition, a loose connection between the main power relay contacts could increase electrical resistance thereby generating heat and increasing the risk of a fire. This bulletin describes the procedure to inspect the PRA and main relays and replace them if necessary.

Applicable Vehicles: Certain 2017-2018 MY Ioniq (AE) HEV/PHEV vehicles

Part Information:

Part Name	Part Number / Figure	Qty	Note
MAIN RELAY	37583-A8000QQH	1	Only required based on vehicle inspection results. Refer to Service Procedure. Note: The main relays are packaged as a set of two.
PRA	37514-G2100QQH	1	Includes new main relays preinstalled. Only required based on vehicle inspection results. Refer to Service Procedure.

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part No.	Nature Code	Cause Code
IONIQ HYBRID	81C068R0	PRA INSPECTION AND MAIN RELAY REPLACEMENT	0.8 M/H	37514- G2100QQH		
(AE HEV)	81C068R1	PRA INSPECTION AND PRA REPLACEMENT	0.8 M/H	37514- G2100QQH	I3A	ZZ3
IONIQ PLUG-IN (AE PHEV)	81C068R2	MAIN RELAY REPLACEMENT	0.7 M/H	37583- A8000QQH		

Notes:

- 1) Submit Claim on Campaign Claim Entry Screen
- 2) If a part is found in need of replacement while performing this campaign and the affected part is still under warranty, submit a separate claim using the same Repair Order. If the affected part(s) are out of warranty, request a Prior Authorization # for goodwill consideration prior to completing the Campaign.

▲ DANGER

The vehicle contains a high voltage battery and associated components. Follow all applicable electrical system precautions outlined in the Shop Manual before performing the procedure.

Shop Manual > General Information > General Safety Information and Caution

Service Procedure:

1. Follow the High Voltage Cut-off Procedure in the Shop Manual before performing any work.

Shop Manual > General Information > High Voltage Cut-off Procedure



Follow the high voltage cut-off procedure before performing the inspection or any repairs.

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2. For PHEV (plug-in) vehicles:

Replace the main relays according to the Shop Manual. Then continue with Step 6 below.

Hybrid control system > High voltage battery control system > Main relay

For HEV (hybrid) vehicles:

The PRA and main relays will be inspected. Remove the PRA assembly according to the Shop Manual.

Hybrid control system > High voltage battery system > Power relay assembly (PRA)

3. Spread the main relay hooks at the top and bottom of the relay using a flat blade screwdriver. Insert a tie wrap between the PRA housing and main relay to hold the hooks disengaged.







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4. Remove the main relays using a wrench.



5. Inspect the PRA and main relays.

If the PRA OR main relays are damaged:

Replace the PRA according to the Shop Manual. The new PRA comes with new main relays preinstalled.

Hybrid control system > High voltage battery system > Power relay assembly (PRA)

If the PRA AND main relays are NOT damaged:

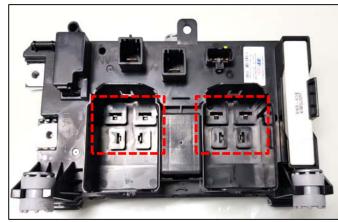
Replace both main relays according to the Shop Manual.

Hybrid control system > High voltage battery control system > Main relay

NOTICE

The specific location(s) and extent of the damage can vary. If any damage is present, replace the PRA.

- 6. Reinstall all removed parts in the reverse order of removal.
- 7. Check for DTCs and perform the appropriate diagnostic service. Ensure no warning lights are present.









NO DAMAGE

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