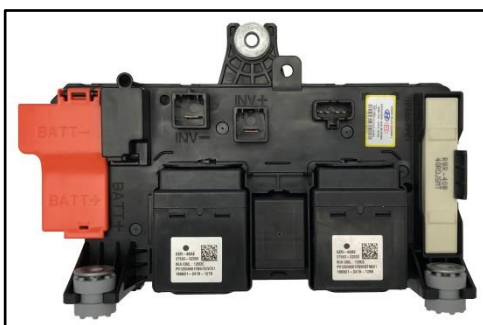
	GROUP Safety Recall Campaign	MODEL 2017-2018MY Niro (DE HEV)
	NUMBER SC168	DATE November 2018
SAFETY RECALL CAMPAIGN		
SUBJECT: POWER RELAY ASSEMBLY (PRA) OR HV MAIN RELAYS REPLACEMENT (SC168)		

This bulletin provides the procedure to inspect the Power Relay Assembly (PRA) for signs of heat damage in some 2017-2018MY Kia Niro (DE HEV) vehicles manufactured from November 1, 2016 through September 11, 2017.

- If no heat damage is found, dealers are to replace the HV Main Relays with new ones.
- If signs of heat damage exist, dealers are to replace the entire PRA with a new one.

The PRA is located underneath the rear left passenger seat and consists of various components including the HV Main Relays. Inadequate connection between the HV main relay contacts can increase electrical resistance, thereby generating heat. If sufficient heat is generated, heat damage may occur to the rear seat, increasing the risk of a fire.

Before conducting the procedure, verify the vehicle is included in the list of affected VINs.



*** NOTICE**

There is no charge to the vehicle owner for this repair. Under applicable law, you may not sell or otherwise deliver any affected vehicle until it has been repaired pursuant to the procedures set forth in this bulletin.

*** NOTICE**

To assure complete customer satisfaction, always remember to refer to WebDCS 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.

File Under: <Safety Recall Campaign>

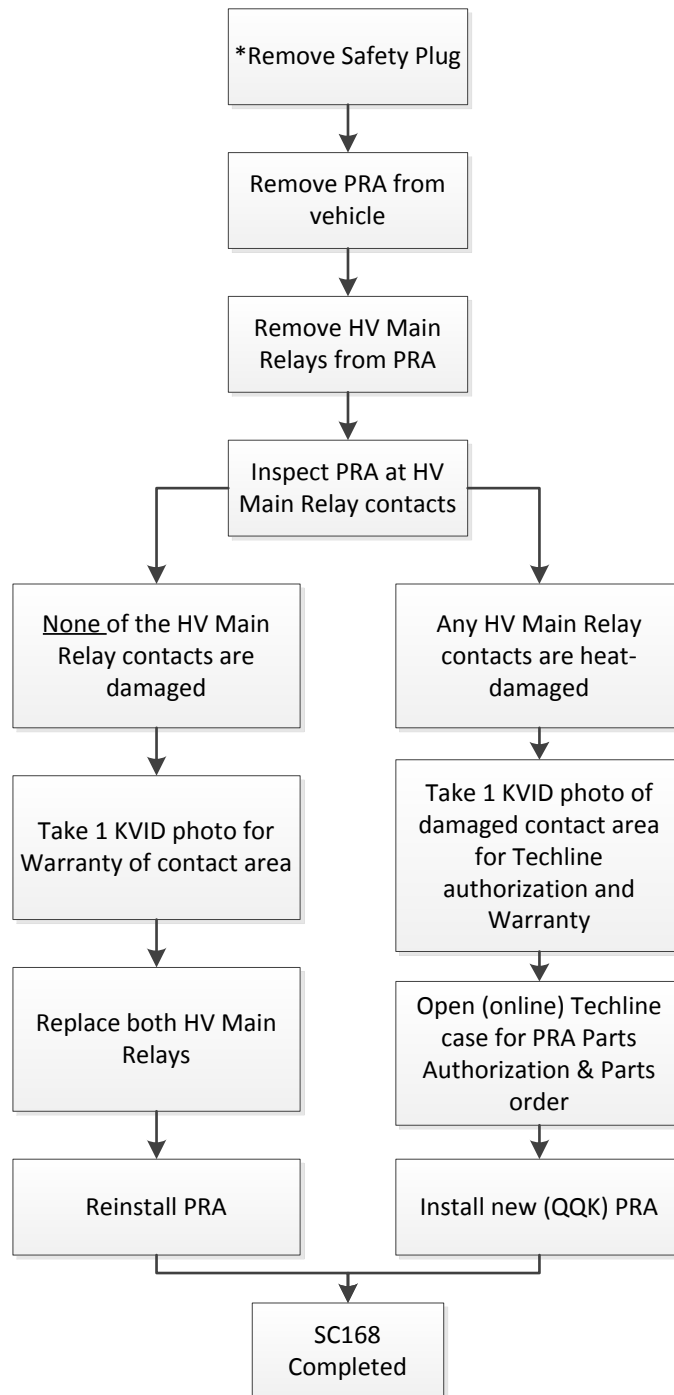
Circulate To: ☒ General Manager ☒ Service Manager ☒ Parts Manager
☒ Service Advisors ☒ Technicians ☒ Body Shop Manager ☒ Fleet Repair

POWER RELAY ASSEMBLY (PRA) OR HV MAIN RELAYS REPLACEMENT (SC168)



***Prior to servicing the high voltage system, take all safety precautions found in the “Hybrid Control System → General Safety Information and Caution” chapter in the applicable Shop Manual and wear all required Personal Protection Equipment (PPE). Failure to take these safety precautions will result in serious injuries or death.**

Flow Chart:

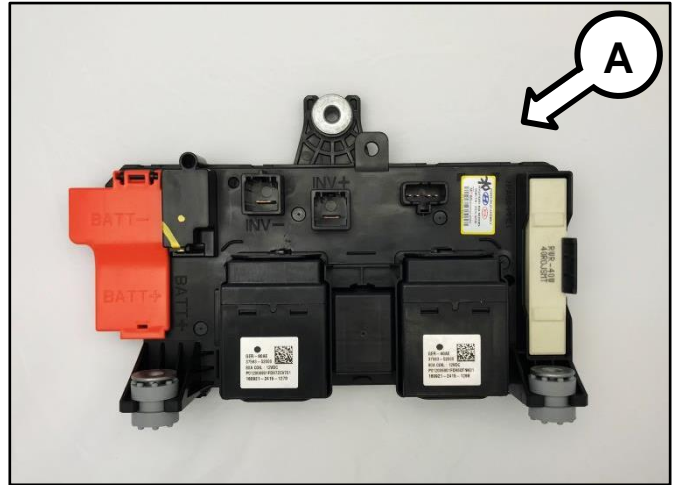


SUBJECT:

POWER RELAY ASSEMBLY (PRA) OR HV MAIN RELAYS REPLACEMENT (SC168)

Service Procedure:

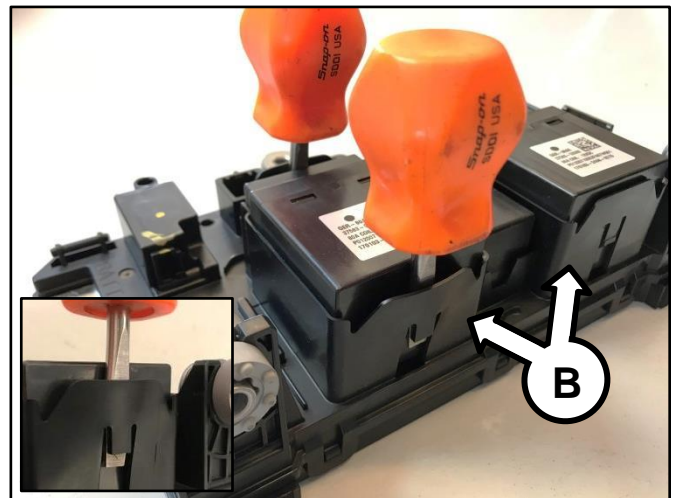
1. Remove the PRA (A) by referring to the “Hybrid Control System → Power Relay Assembly (PRA) → Repair procedures” chapter in the applicable Shop Manual on KGIS.



2. Place the PRA on a flat and stable surface and then carefully remove the two (2) main relays (B) from the PRA (A) by following the procedure below.

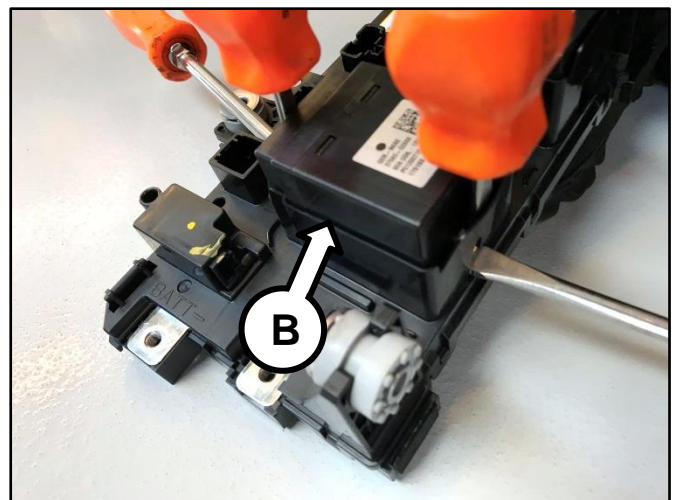
1. Partially insert two (2) stubby flat-head screwdrivers between the retaining tabs of the PRA (A) and main relay (B). Ensure the PRA tabs are separated from the main relay.

NOTE: Do not over-insert the stubby flat-head screwdrivers as damage to the retaining tabs/PRA may occur.



2. Use two (2) large flat-head screwdrivers to carefully pry up the relay (B) from the bottom past the retaining tabs and then lift the relay (B) up from the PRA.

[Click here to see the main relay removal video tutorial.](#)



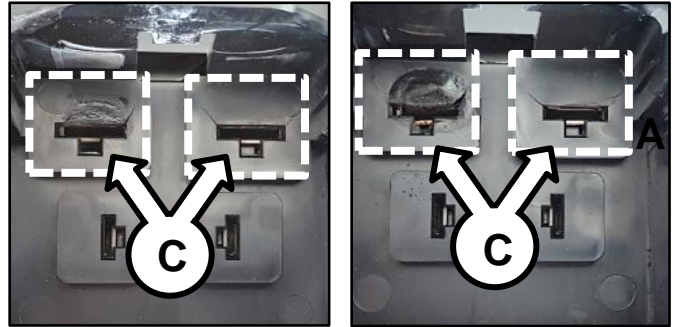
SUBJECT:

POWER RELAY ASSEMBLY (PRA) OR HV MAIN RELAYS REPLACEMENT (SC168)

3. Inspect the PRA (A) at the HV main relay large contact areas (C) for any heat damage.

- If any sign of heat damage is present, replace the PRA (A). **Note:** Damage should only be present at the large HV terminals.
- If no sign of heat damage is present, replace the two HV main relays (B).

***Requirement:** For either case, take one (1) KVID photo for Warranty submission. If PRA shows heat damaged contacts, open a (online) Techline case for review, QK PRA parts authorization, and parts order.



Damaged



Not Damaged

4. Reinstall all removed components in the reverse order of removal and ensure proper operation of vehicle and no warning lights are on.



SUBJECT:

POWER RELAY ASSEMBLY (PRA) OR HV
MAIN RELAYS REPLACEMENT (SC168)

AFFECTED VEHICLE RANGE:

Model	Production Date Range
Niro (DE HEV)	November 1, 2016 through September 11, 2017

REQUIRED PART:

Part Name	Part Number	Figure	Qty.
Power Relay Assembly (PRA)	37514 G2100QQK		1
HV Main Relay	37583 A8000QQK		1 (includes 2 HV Main Relays per kit)

WARRANTY INFORMATION:

N Code: N99 C Code: C99

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
R	37583 G2000	0	(SC168) PRA Inspection & HV Main Relay Replacement	181123R0 Requires 1 KVID Photo (Attachment Type 'XX')	0.8 M/H	37583 A8000QQK	1
R	37583 G2000	0	(SC168) PRA Inspection & Replacement	181123R1 Requires 1 KVID Photo (Attachment Type 'XX')	0.8 M/H	37514 G2100QQK Open a (online) Techline case for review, QQK PRA parts authorization, & parts order	1

Notes:

For the KVID Warranty Claim Attachment captured photo, use attachment type 'XX' for 'Other'.
PRA replacement claims will require a Techline case for review and approval of repair.
Use sublet code 'RX' for rental expense reimbursement on PRA replacement (181123R1) claims.

★ NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SC168 when accessing the WebDCS system.