

GROUPNUMBERCAMPAIGN20-01-019HDATEMODEL(S)April, 2020Sonata (DN8)
Nexo (FE)

Technical Service Bulletin

SUBJECT:

2020MY SONATA AND 2020MY NEXO REMOTE SMART PARKING ASSIST (RSPA) CONTROL LOGIC IMPROVEMENT (RECALL CAMPAIGN 191)

***** IMPORTANT

*** 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) via WEBDCS to identify open Campaigns.

Description: Certain 2020 model year Sonata and certain 2020 Nexo vehicles may potentially have a Fail-Safe logic error when using the Remote Smart Parking Assist (RSPA) function. As such, when the RSPA function is used these vehicles may continue to move in the last commanded direction even while a system malfunction is detected. This bulletin describes the procedure to update the vehicle's ECU Fail-Safe control software.





Applicable Vehicles: Certain 2020MY Sonata (DN8) and certain 2020MY Nexo (FE) vehicles.

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

GDS Information:

ROM ID Information Table – Sonata (DN8): ADAS_PRK Nexo (FE): RSPA

Note: Update only applies to certain 2020MY Sonata (DN8) and certain 2020MY Nexo (FE) vehicles.

			ROM ID		
Model System Part Num	Part Number	OLD	NEW		
Sonata (DN8)	ADAS_PRK	99910-L0000	99910-L0000_1.00 99910-L0000_1.01 99910-L0000_1.02	99910-L0000_1.03	
Nexo (FE)	RSPA	99910-M5300	99910-M5300_1.00	99910-M5*00_1.01	

Warranty Information:

Model	Op Code	Operation	Op Time	Causal Part Number	Nature Code	CauseCode
Sonata (DN8)	01D029R1	Remote Smart Parking Assist (RSPA) control logic improvement	Remote Smart Parking Assist	99910- L0000	114	770
Nexo (FE)	01D029R0		0.3 10/11	99910- M5300		223

IMPORTANT:

NOTE 1: Submit Claim on Campaign Claim Entry Screen.

NOTE 2: If a part is found in need of replacement while performing Recall Campaign 191 and the affected part is still under warranty, submit a separate claim using the same Repair Order. If the affected part is out of warranty, submit a Prior Approval Request for goodwill consideration prior to the repair.

SUBJECT: 2020MY SONATA AND 2020MY NEXO REMOTE SMART PARKING ASSIST (RSPA) CONTROL LOGIC IMPROVEMENT (RECALL CAMPAIGN 191)

Service Procedure:

NOTICE

- Update the vehicle if applicable. Refer to ROM ID Information Table.
- Check the ROM ID of the vehicle's ECU and reference the ROM ID Information Table before attempting any updates.
- Ensure the GDS Mobile and the vehicle's battery are fully charged. Run the engine to charge the battery if necessary before attempting any updates.
- Turn off all lamps and do not leave the head lamp switch in auto mode. Turn off all accessories (including heater, A/C, blower, radio, seat warmer, defroster, etc.). Do not allow the battery to be discharged during update.
- Perform update with the ignition switch in the ON position.
- Be careful not to disconnect any cables connected to the vehicle or scan tool during update.
- Do not start the engine during update.
- Do not turn off the ignition switch during update unless specifically directed by the GDS Mobile.
- 1. Connect the VCI-II into the vehicle's DLC connector under the driver's side instrument panel.



2. With the ignition in the ON position, open the GDS app on the GDS Mobile. Confirm GDS communication with the vehicle and use the **AUTO VIN** button to detect the vehicle's VIN.

DN8a¤		FE¤	
25 🗃 🗃	42 49 97% 0	752 @ 🛱	N2 77 963
HOME Online	vei 🗮 😯 🐼	HOME Online	vci 🛲 🚷 [d
Vehicle Select	ion 🔗	Vehicle Selection	<u>ہ</u> ہ
To Search whicke, please insert Vill 🛛 🗶 🔍		To Search vahicle, please insert WM. 🛛 🗶 🛛 🔍	
SANTAPE(TMA)		GENESIS(0H)	
SCOUPE(L1)		IONIQ Electric(AE EV)	
SONATA hybrid(DN8 HEV)		IONIQ Hybrid(AE HEV)	
SONATA Hybrid(LF HEV)		IONIQ Plug-in Hybrid(AE PHEV)	
SONATA Hybrid(YF HEV)		KONA electric(OS EV)	
SONATA Plug-in Hybrid(LF PHEV)		KONA(OS)	
SONATA(DNBA) 20	20 G 1.6 T-GDI GAMMA II	NEX0(FE) 2020	113KW <

SUBJECT: 2020MY SONATA AND 2020MY NEXO REMOTE SMART PARKING ASSIST (RSPA) CONTROL LOGIC IMPROVEMENT (RECALL CAMPAIGN 191)

3. Select ECU Upgrade from the GDS main screen and then select Auto Mode.

NOTICE

Do not update using Manual Mode unless the Auto Mode fails.

a. For Sonata (DN8) vehicles: Under 4. System, select ADAS_PRK to update the ECU. Then select ID Check to search for available updates.

> b. For Nexo (FE) vehicles: Under System, select RSPA to update the ECU. Then select **ID Check** to search for available updates.



System



ADAS_PRK	ENGINE	>
ROM ID		
Currently in Vehicle	99910-L0000_1.01	ID Church
Latest Update	99910-L0000_1.03	10 Check
Event Group		TSB
0 594.DN8A - 1	RSPA CONTROL LOGIC IMPROVEMENT(ADA	S_PRK)
_		
HOME Online	NEX0(FE)/2020/113KW	vci 🕿 😽 🕃
	ECU Upgrade	
📾 NEXO(FE) > 2020	> 113KW	
System		
<		>
ROM ID		
Currently in Vehicle	99910-M5300_1.00	ID Church
Latest Update	99910-M5*00_1.01	ID Check

SUBJECT: 2020MY SONATA AND 2020MY NEXO REMOTE SMART PARKING ASSIST (RSPA) CONTROL LOGIC IMPROVEMENT (RECALL CAMPAIGN 191)

5. Confirm the ROM IDs match those in the ROM Information table for the respective vehicle. Select the event under **Event Group** and then select **Upgrade** to start the update.

> The update is performed in two parts. Follow the prompts on the GDS to complete the update.

NOTICE

Do not touch the GDS buttons ('Back', 'Home', etc) while performing the update. Do not start the engine.

SONATA(DN8A) >	2020 > G 1.6 T-GDI GAMMA II	
System		
		>
ROM ID		
Currently in Vehicle	99910-L0000_1.01	ID Check
Latest Update	99910-L0000_1.03	in chick
Event Group		TSB
A 594.DN8A -	RSPA CONTROL LOGIC IMPROVEMENT(ADAS_I	PRK)

 After updates 1/2 and 2/2 are performed, follow the prompts and turn the ignition to Key Off position for 10 seconds. Then select OK to continue.



7. When prompted to run a fault code search, select **Yes** to check for DTCs. Clear all DTCs if any are stored.

NOTICE

Various warning messages may appear in the instrument cluster during the update. Clear any DTCs after the update. Manual Update Procedure:



The manual update should be performed only when the automatic update fails.

If automatic update fails, turn the ignition off for about 10 seconds and then place it back in the on position to reset the control unit before performing a manual update.

1. Select **ECU Upgrade** from the GDS main screen and then select **Manual Mode**.

NOTICE

Do not update using Manual Mode unless the Auto Mode fails.

Ensure the correct update is performed by using the ROM ID Info tables. Any attempt to update using an incorrect ROM ID may cause the ECU to be inoperative.

Do not touch the GDS buttons ('Back', 'Home', etc) while performing the update.

Do not start the engine.

Various warning messages may appear in the instrument cluster during the update. Clear any DTCs after the update.



2. a. For **Sonata (DN8)** vehicles: Under **System**, select **ADAS_PRK** to update the ECU.

Select the appropriate update by referencing the ROM ID Information tables above and password tables below. Select **Upgrade** and follow the prompts on the GDS to complete the update.

b. For **Nexo (FE)** vehicles: Under **System**, select **RSPA** to update the ECU.

Select the appropriate update by referencing the ROM ID Information Tables above and password tables below. Select **Upgrade** and follow the prompts on the GDS to complete the update.

Manual Mode Update Passwords:

ECU Upgrade	P
📾 SONATA(DN8A) > 2020 > G 1.6 T-GDI GAMMA II	
System	
	>
Event Group	TS8
594.DN8A - RSPA CONTROL LOGIC IMPROV	EMENT(ADAS_PRK) 🗊
DN8A RSPA 99910-L0000	

ECU Upgrade	-
🖴 NEXO(FE) > 2020 > 113KW	
• System	>
Event Group	TSB
595.FE - RSPA CONTROL LOGIC IMPROVEMENT FE RSPA 99910-M5300/400	Ŧ

Sonata (DN8) l	JPDATE NAME PAS	SWORD
DN8A RSPA 99910-L0000	1	000

Nexo (FE) UPDATE NAME	PASSWORD
FE RSPA 99910-M5300/400	5400

3. When updates 1/2 and 2/2 are completed:

Check for any DTCs and perform the appropriate diagnostic service. Ensure no warning lights are present to complete the procedure.