		GROUP	NUMBER
HYUNDAI **Technical Service Bulletin**		**CAMPAIGN**	**20-01-031H-1**
		DATE	MODEL(S)
		JULY, 2020	**Sonata Hybrid (DN8 HEV)**

SUBJECT: INFORMATION FOR PROGRAMMING THE NEAR FIELD COMMUNICATION (NFC) CARD (SERVICE CAMPAIGN T5E)

This TSB supersedes 20-01-031H to include Section D. Troubleshooting – Pairing NFC Card with GDS.

★ **IMPORTANT**

*** Dealer Stock and Retail Vehicles ***

Dealers must perform this Service 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 "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.

Description: This bulletin describes the procedure to program the NFC Card only when no other NFC card has been paired to the vehicle previously.

Applicable Vehicles:
Certain 2020MY Sonata Hybrid (DN8 HEV) equipped with SEL, Limited (Trims)

Parts Information:

Part Name	Part Number	Image	Qty.
NFC Card Key	L0H81-AK000		1

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

Warranty Information:

Model	Op Code	Op Code Description	Op Time	Causal P/N	Nature Code	Cause Code
Sonata Hybrid (DN8 HEV)	00A001R0	Card Pairing	0.2 M/H	L0H81-AK000	I3T	ZZ3

Note: Submit claim under campaign claim entry screen

> **NOTICE**
>
> This TSB is **ONLY** applicable when no other NFC card has been paired to the vehicle previously.

Notes: For models with Navigation, complete Card Pairing Process on the AVN.
For models with Non-Navigation Head Units, complete pairing process with the cluster.

> **NOTICE**
>
> If unable to program the card key through the Head Unit or Cluster, proceed to **Section D** (Page 9) for troubleshooting measures.

Service Procedure:

A. Head Unit Identification

1.   Identify if the Head Unit is a Navigation or Non-Navigation System.

Non-Navigation contains **two** knobs

Navigation contains only **one** Knob

2.   Complete pairing process after identifying the Head Unit type.

> **NOTICE**
>
> Section B: Non-Navigation proceed to **Page 3**
> Section C: Navigation jump to **Page 6**

B. NFC Pairing for Non-Navigation Head Unit

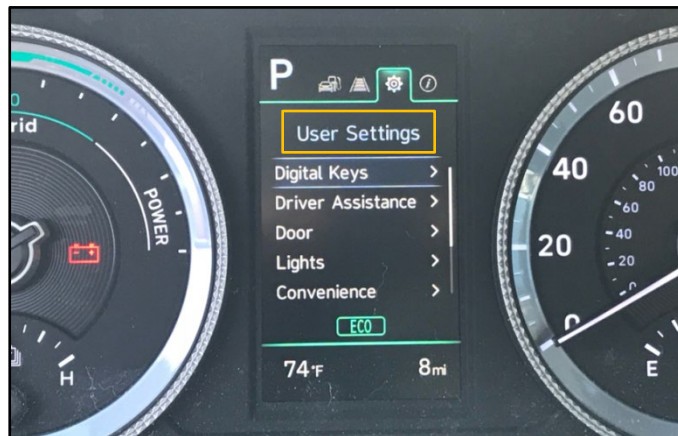1. Remove the key card in plastic sleeve from the box.

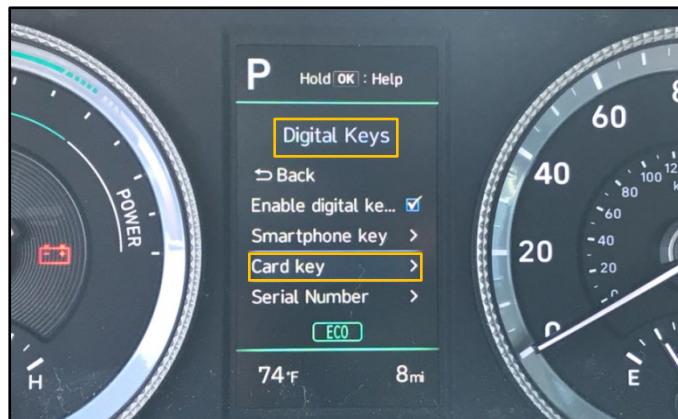2. Place the key card on the wireless charging pad.

3. With at least 1 key FOB inside the vehicle, turn IG ON, without engine running to power on the cluster.

    Scroll to **User Settings**.

4. Press **Digital Keys** followed by **Card Key**.

5. Choose **Save** under the card Key screen.

6. Confirm card key saved.

    Save cannot be selected anymore.

7. Turn IG OFF and exit vehicle with both the programmed card key as well as the key FOB.

    Place the Key FOB at least 6 feet away from the vehicle and place the programmed card key to the driver side door to confirm that it arms and disarms the vehicle alarm system.

8. Loop the programmed card key with the 2 key FOBs.

    NOTICE

    If the vehicle has been retailed, this step is no longer necessary.

C. NFC Pairing for Navigation Head Unit

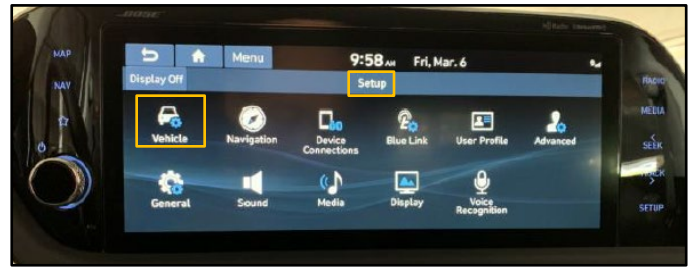1. Remove the key card in plastic sleeve from the box.

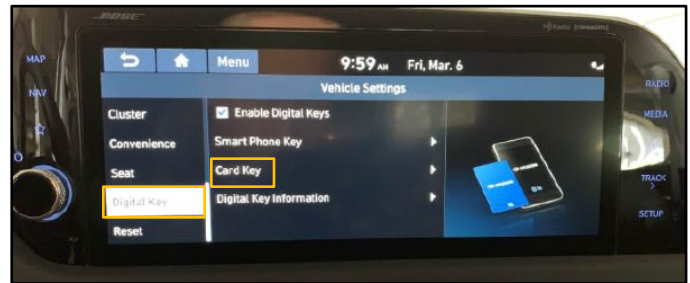2. Place the key card on the wireless charging pad.

3.   With at least 1 key FOB inside the vehicle, turn IG ON without engine running to power on display.
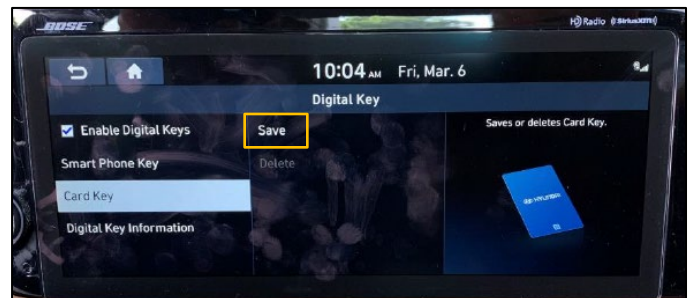
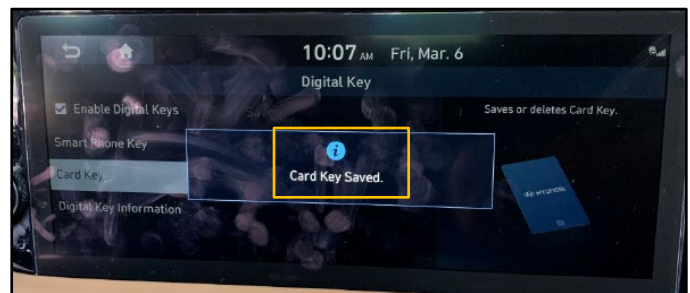Press **Setup** and then **Vehicle**.

4.   Scroll down and press **Digital Key** followed by **Card Key**.

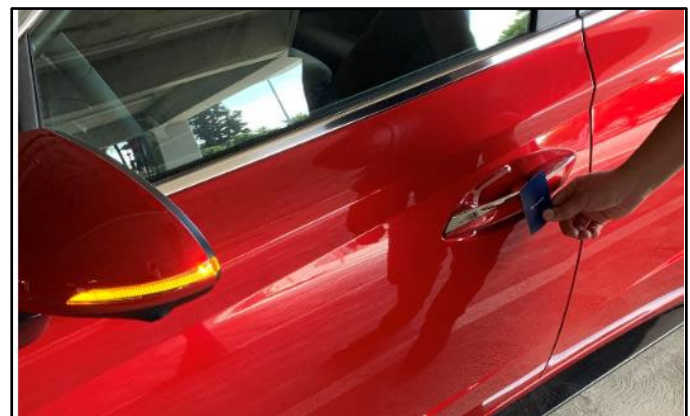5.   Press **Save** under the Digital Key screen.

6.   Check for **Card Key Saved**. Message as shown to the right.

7.   Turn IG OFF and exit vehicle with both the programmed card key as well as the key FOB.

Place the Key FOB at least 6 feet away from the vehicle and place the programmed card key to the driver side door to confirm that it arms and disarms the vehicle alarm system.

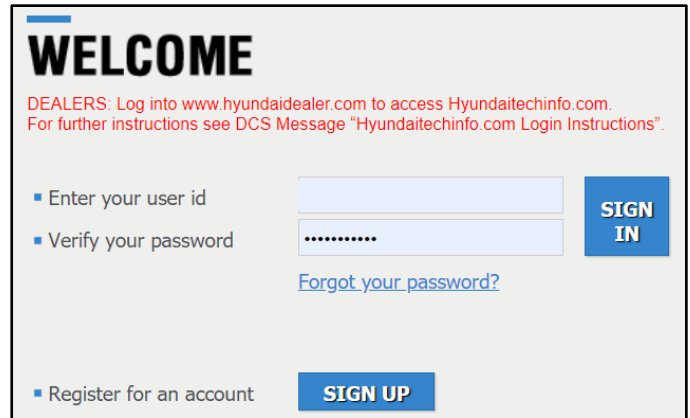8.   Loop the programmed card key with the 2 key FOBs.

> ### NOTICE
>
> If the vehicle has been retailed, this step is no longer necessary.
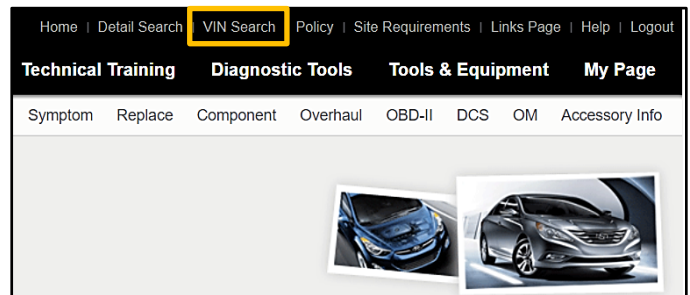
D. Troubleshooting – Pairing NFC Card with GDS
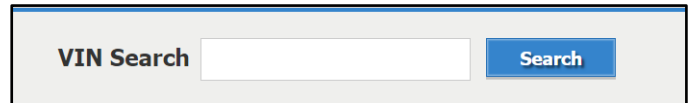
1. Login to **HyundaiTechInfo.com**.

2. Click on **VIN Search**, and enter VIN.

3. Scroll down to "Key Code & Pin code Search".

    Click on **Search Key/PIN code**.

4. Click I'm not a Robot, and complete security task.
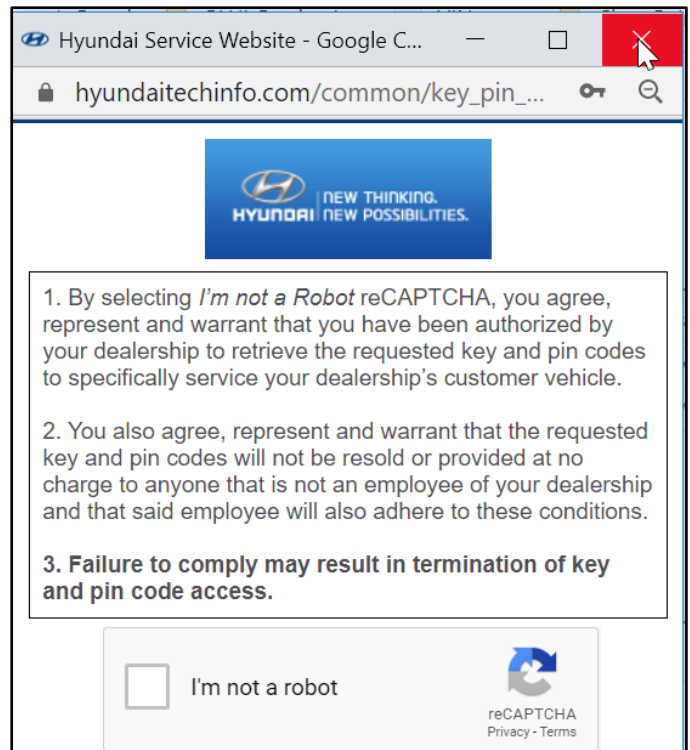
5.   Write down **New** pin code, and proceed to the vehicle.

> **NOTICE**
>
> PIN Code will be needed to complete Step 13.
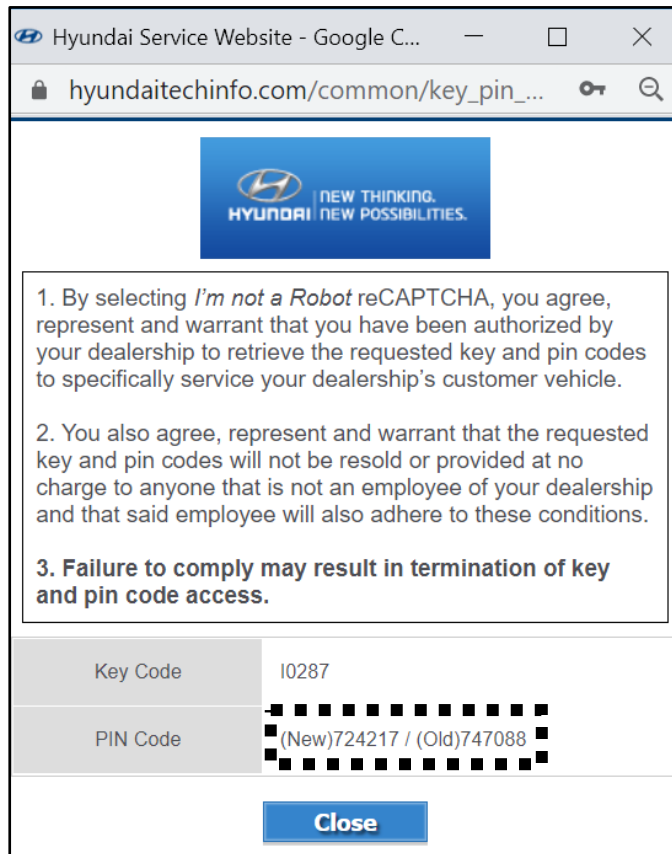
6.   Insert the GDS scan tool into the vehicle's **Onboard Diagnostic II (OBD II)** port.

> **NOTICE**
>
> The GDS scan tool must sit flush inside the OBD II port, and the **Function light** must appear before proceeding further.

7.   In the GDS, tap **S/W Management**.

8.   Enter vehicle information and press **OK**.

9.   Scroll down to Identity Authentication Unit, expand folder, and tap **Card Key Registry Mode Activation**.

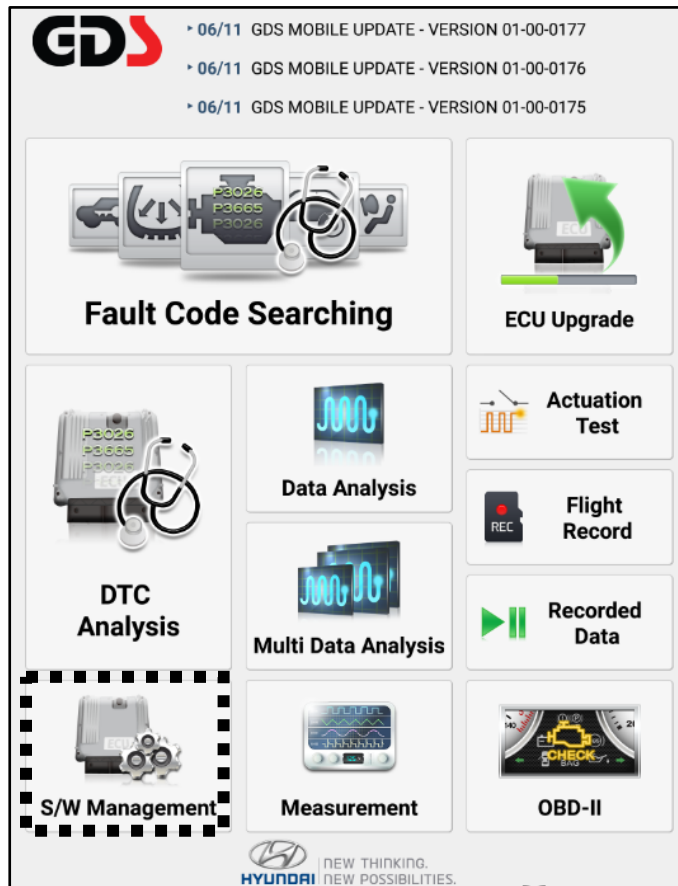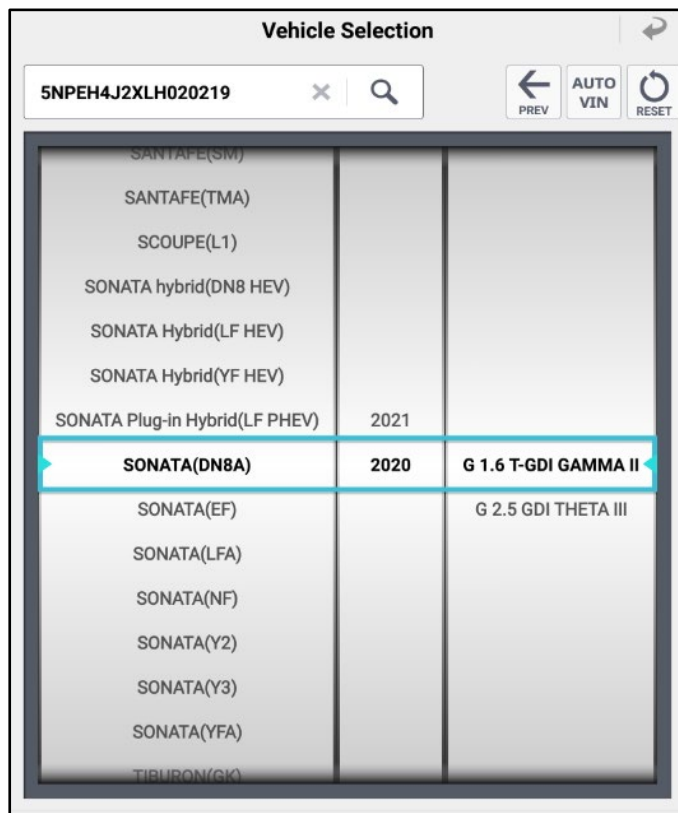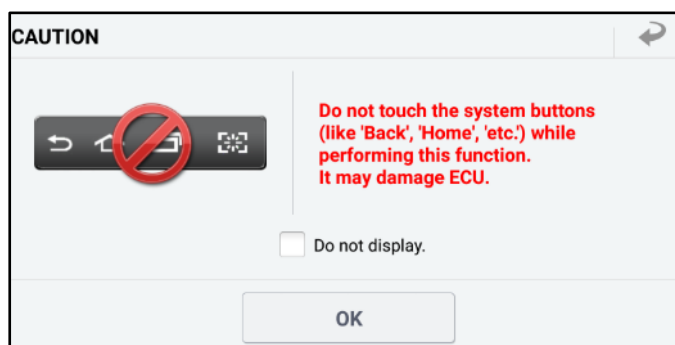| S/W Management	
Systems	**Components** Unfold All
■ Driver Door Module	
■ Head Up Display	
■ Identity Authentication Unit	
■ System Identification	
■ Neutralization Mode	
■ Status Information	
■ IAU - IBU Learning Function	
■ IAU - BLE Learning Function	
■ Card Key Registry Mode Activation	
■ Integrated Body Control Unit-BCM	

10.   Tap **OK**.

CAUTION

Do not touch the system buttons (like 'Back', 'Home', 'etc.') while performing this function. It may damage ECU.

☐ Do not display.

OK

11.   Confirm card key registration mode is activated and press **OK**.

S/W Management

· Card key registration mode activated

Purpose	This function is a required course for prior preparation before registering the NFC card key in AVN or CLU.
Enable Condition	1. IG OFF
Concerned Component	IAU, IBU
Concerned DTC	-
Fail Safe	-
Etc	-
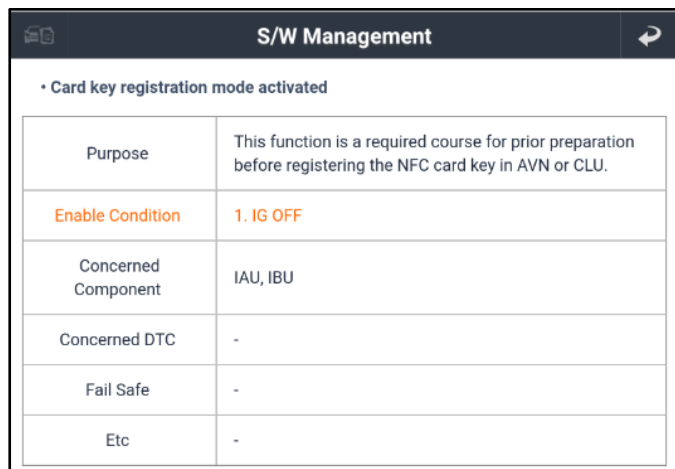
12. Confirm all the preconditions have been met, and press **OK**.

S/W Management

■ Card Key Registry Mode Activation

● [Card key registration mode activated]

This function is a required course for prior preparation before registering the NFC card key in AVN or CLU.

You must get in a car and register the NFC card key through AVN or CLU after completing the process.

⁎ Caution : Get in a car within five minutes and register the NFC card key through AVN or CLU after completing the process.

● [CONDITION]
1. IG OFF
2. Gearshift lever at P
3. IAU teaching status : Learnt

Click the [OK] button.

13. Enter **new** PIN that was retrieved from **HyundaiTechInfo.com** (Step 5), and press **OK**.

S/W Management

■ Card Key Registry Mode Activation

● [Card key registration mode activated]

Enter the PIN and click the [OK] button.

⁎ Caution : Take care in inputting the PIN because inputting of the wrong PIN or VIN five times may limit the use of this function.

PIN :
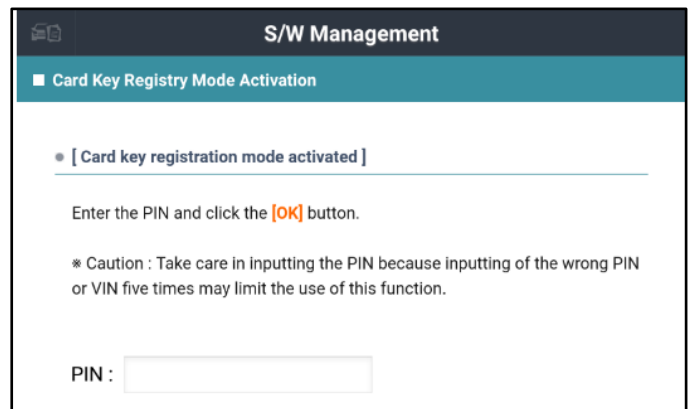
14. GDS will inform user that "The function has been completed".

Press **OK**.

Information

The function has been completed.

Press [OK] button to exit.

OK
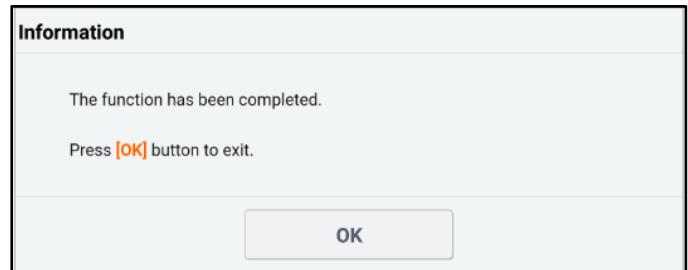
15. GDS Service Procedure complete, please proceed back to **Section A** (Page 2).