

 HYUNDAI Technical Service Bulletin	GROUP CAMPAIGN	NUMBER 23-01-010H
	DATE MARCH 2023	MODEL(S) SONATA (LFA)
SUBJECT: ECM SOFTWARE UPDATE – FUEL INJECTION CONTROL LOGIC (SERVICE CAMPAIGN 970)		

★ IMPORTANT

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.

Access the "Vehicle Information" screen via WEBDCS to identify open campaigns.

Description: This bulletin provides information related to an Electronic Control Module (ECM) software update to revise the fuel injection control logic to compensate for O2 sensor aging and control tailpipe emissions within applicable standards.

Applicable Vehicles:

Certain 2015-19MY Sonata (LFA) produced from 06/04/2014 to 09/16/2019 and equipped with 2.0L Turbo GDI engine.

STUI



This TSB includes STUI pictures as a requirement. Where indicated, please include the last 6 digits of the VIN and date of repair on a piece of paper. Ensure the VIN and date of repair are clearly visible. Finally, please ensure all captured pictures are completed according to the steps in this TSB and uploaded to STUI. All claims submitted that have illegible, incomplete, or incorrect picture(s) are subject to debit.

Part Information:

Part Name	Part Number	Qty.	Figure	Remarks
Campaign Sticker	00305-SC970	1		Apply to all vehicles regardless of state
Vehicle Emission Recall-Proof of Correction Card	NP050-09006	1		Order only for States: CA, CT, DE, MA, MD, ME, NJ, NY, OR, PA, RI, VT, WA

NOTE: Dealers have been sent 5 campaign stickers for the start of this campaign. Additional can be ordered through its facing PDC.

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

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Warranty Information:

MODEL	OP. CODE	OPERATION	OP. TIME	CAUSAL PART	NATURE	CAUSE
Sonata (LFA)	10DA04R0	ECM Upgrade & Sticker Install	0.4 M/H	39111-2GTE5	T73	ZZ3

NOTE 1: Submit claim on Campaign Claim Entry Screen

NOTE 2: If a part that is not covered by this campaign 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 is out of warranty, submit a Prior Approval request for goodwill consideration prior to performing the work.

NOTE 3: Op time includes taking a STUI picture and uploading. The STUI picture must include the installed campaign sticker under the hood along with a piece of paper displaying the last 6 digits of the VIN and date of the repair. **If not included, the claim will be subject to debit.**

GDS Information:

System Selection: **Engine Control Module (ECM)**

EVENT #	DESCRIPTION
674*	LFA 2.0T-GDI - FUEL INJECTION CONTROL LOGIC IMPROVEMENT

(*or use a later available event as listed in the GDS-M ECU Update screen if one is available.)

Service Procedure:

1. Perform GDS Mobile software update per TSB **15-GI-001**.
2. After successful completion of **ECM software update**, check for Diagnostic Trouble Codes in **ALL** menus and erase any DTC.
3. Erase the DTC in the BlueLink system per TSB 12-BE-005-2.
4. Confirm normal vehicle operation.

NOTICE

You must initially perform GDS-M ECM Update in Auto Mode.

If the ECM Update starts but then fails in Auto Mode, perform the update in Manual Mode to recover.

WARNING

GDS-M Vehicle Battery Low Voltage Warning:

When the vehicle battery is lower than 12 volts, the GDS-M will trigger a Low Battery Voltage Warning. If this Warning occurs,

A. Connect the battery to a fully charged battery jump pack or GR8 charger using “Power Supply Mode” to continue the software update.

OR

B. Select “BACK” to exit the SW update. Then, start the engine and idle with the headlights on for 20 minutes. Return to the SW update after charging the battery.



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MODEL	MY	EMISSION	IMMO.	PCM P/No.	ROM ID	
					OLD	NEW
LFA 2.0L Turbo GDI	15MY	ULEV	+IMMO	39111-2GTE5	LFAFNC0EM87A LFAFNC0EM87B LFAFNC0EM88A LFAFNC0EM88K LFAFNC0EM88L	LFAFNC0EM88M
			-IMMO	39111-2GTE0	LFAFNC0ER87A LFAFNC0ER87B LFAFNC0ER88A LFAFNC0ER88K LFAFNC0ER88L	LFAFNC0ER88M
	16MY	ULEV	+IMMO	39111-2GTE6	LFAGNC0ERA3A LFAGNC0ERA3K LFAGNC0ERA3L	LFAGNC0EMA3M
	17MY	ULEV	+IMMO	39111-2GTE7	LFAHNC0ERC2A LFAHNC0ERC3A LFAHNC0ERC3K LFAHNC0ERC3L LFAHNC0ERC3N	LFAHNC0ERC3O
			-IMMO	39111-2GTE2	LFAHNC0EMC2A LFAHNC0EMC3A LFAHNC0EMC3K LFAHNC0EMC3L LFAHNC0EMC3N	LFAHNC0EMC3O
	LFA PE 2.0L Turbo GDI	18MY	ULEV	+IMMO	39112-2GTE5	LPAINC08RD3A LPAINC08RD3B
39112-2GTE6					LPAINC08RD5A LPAINC08RD5D LPAINC08RD5K LPAINC08RD5L LPAINC08RD5N	
19MY		ULEV	+IMMO	39112-2GTE7	LPAJNC08RE6A LPAJNC08RG1B LPAJNC08RG1C LPAJNC08RG1D	LPAJNC08RG1E

NOTE: +IMMO = Start Stop Button, -IMMO = Key Start

SUBJECT:**ECM SOFTWARE UPDATE – FUEL INJECTION CONTROL LOGIC
(SERVICE CAMPAIGN 970)****Manual Mode Password Information Table:**

EVENT #	MENU	PASSWORD
#674	LFa 2.0 T-GDi 39111-2GTE0	1120
	LFa 2.0 T-GDi 39111-2GTE5	1125
	LFa 2.0 T-GDi 39111-2GTE6	1126
	LFa 2.0 T-GDi 39111-2GTE2	1122
	LFa 2.0 T-GDi 39111-2GTE7	1127
	LFa PE 2.0 T-GDi 39112-2GTE5/6	2256
	LFa PE 2.0 T-GDi 39112-2GTE7	1227

For All Vehicles:

Fill in the information on the **00305-SC970** Campaign Sticker and apply onto the hood in the area next to the **VEHICLE EMISSION CONTROL INFORMATION** label as shown.

Be sure to clean the mounting surface to ensure proper label adhesion.

The campaign procedure is complete.

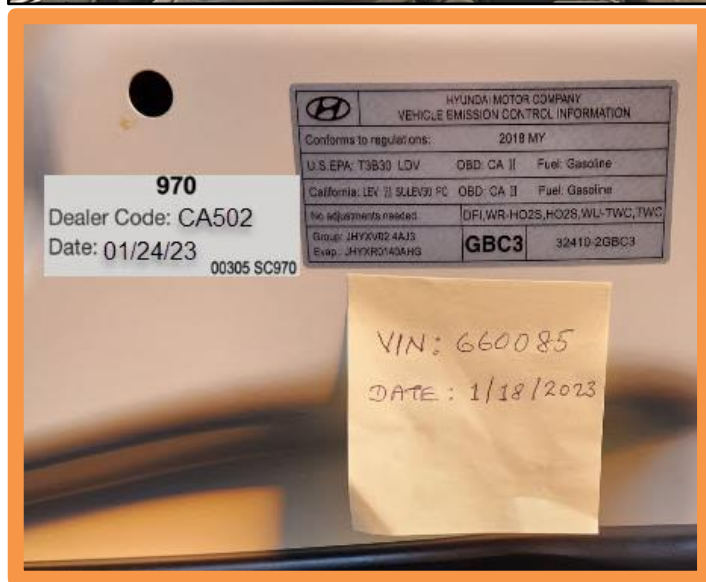
***i* Information**

- Be sure to clean the mounting surface to ensure proper label adhesion.

**STUI**

Using STUI, photograph the campaign sticker along with the last 6 digits of the VIN and the date of the repair on a piece of paper.

Upload the photo to STUI.



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For vehicles registered in California, Connecticut, Delaware, Maine, Maryland, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont and Washington:

VEHICLE EMISSION RECALL - PROOF OF CORRECTION CARD

A Vehicle Emission Recall - Proof of Correction card must be filled out for all vehicles registered in California, Connecticut, Delaware, Maine, Maryland, Massachusetts, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont and Washington. Residents of these states, who own an affected vehicle, will be required to possess a Vehicle Emission Recall - Proof of Correction card as evidence of voluntary service campaign completion, when they apply for vehicle registration renewal.

WHAT TO DO WITH THE CARD:

The Vehicle Emission Recall - Proof of Correction card must be completed by the Dealership's Service Manager using a permanent ink pen. A fine point pen is recommended. When filling in the information, copy the information directly from the vehicle, not from the repair order. ALL INFORMATION MUST BE PRINTED AND NEAT.

The copy of the card shown below indicates the areas to be filled in. Each area must be filled in.

The completely filled out Vehicle Emission Recall - Proof of Correction card should be given to the owner of the vehicle upon completion of the Campaign.

The diagram shows a pink "Vehicle Emission Recall - Proof of Correction" card with the following fields and instructions:

1. Enter Vehicle's License Number (License No.)
2. Enter "Hyundai" (Make)
3. Enter Model Year (Model Year)
4. Enter "SONATA" (Body Type)
5. Enter the vehicle's VIN Number (Vehicle Identification Number)
6. Enter "970" (Recall Number)
7. Enter Dealership Name (Dealer's Name)
8. Enter Dealership's Address. NOTE: Enter the physical address, not the mailing address (not a P.O. Box) (Address, City, State and Zip)
9. Enter Date of Repair (Date)
10. Service Manager Sign Here (Dealership's Authorized Signature)

The card also includes the text: "The above described vehicle has been repaired, modified and/or equipped with new emission control devices to meet applicable California Emission Control Laws." and "Return this certificate to DMV only when required - otherwise retain for your records." The form number NP050-09006 8/14 is printed in the bottom right corner.