

 HYUNDAI Technical Service Bulletin	GROUP CAMPAIGN	NUMBER 17-01-070
	DATE DECEMBER, 2017	MODEL(S) SONATA (LFA)
SUBJECT:	ECM AND TCM UPDATE - DTC P219C, P219D, P219E, P219F & P0731 IMPROVEMENT (SERVICE CAMPAIGN T2Q)	

★ 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 provides information related to the Engine Control Module (ECM) and Transmission Control Module (TCM) software updates for certain 2018MY SONATA, equipped with 2.0L turbo engine and 8 speed automatic transmission. These vehicles may experience Malfunction Indication Light illumination with any of the following DTC(s) below:

- P219C: Cylinder #1 Imbalance Error
- P219D: Cylinder #2 Imbalance Error
- P219E: Cylinder #3 Imbalance Error
- P219F: Cylinder #4 Imbalance Error
- P0731: Gear 1 Incorrect Ratio

Note 1: There are no drivability symptoms associated with DTCs P219C, P219D, P219E and P219F.

Note 2: Some vehicles may experience limited engine power ("Limp Home") mode with DTC P0731.

NOTICE

Both ECM and TCM software updates must be performed on each vehicle.
Must reset TCM adaptive learning values after ECM and TCM updates are completed.

Applicable Vehicle: Certain 2018MY Sonata (LFA) with 2.0L turbo engine

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature	Cause
Sonata (LFA)	70CA22R0	ECM & TCM UPDATE	0.5 M/H	39112-2GTE5	T41	ZZ3

NOTE 1: Submit Claim on Campaign Claim Entry Screen.

NOTE 2: If a part is found in need of replacement while performing Service Campaign T2Q and the affected part is still under warranty, submit a separate warranty 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.

GDS Information:System Selection: **ENGINE (ECM)**

Event #	Description
458*	LFA F/L 2.0T - GDI 8AT - DRIVING PERFORMANCE IMPROVEMENT (EMS)

System Selection: **AUTOMATIC TRANSMISSION (TCM)**

Event #	Description
459*	LFA F/L 2.0T - GDI 8AT - DRIVING PERFORMANCE IMPROVEMENT (TMS)

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

NOTE:

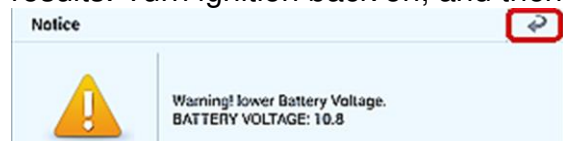
- Refer to TSB **15-GI-001** for the tablet-based Mobile GDS ECU update procedures.
- Refer to TSB **15-GI-002** for the PC-based GDS ECU update procedures.

NOTICE**You must initially perform GDS ECM/TCM Update in Auto Mode.**

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

⚠ WARNING**GDS Vehicle Battery Voltage Warning:**

If voltage is below 12 volts as per the below GDS warning, then select **Back** and run the engine at least 20 minutes to ensure an adequate battery state of charge for reliable update results. Turn ignition back on, and then retry the ECU update again.

**ECM ROM ID Information Table:**

MODEL	IMMO.	PCM P/No.	ROM ID	
			OLD	NEW
LFA	IMMO	39112-2GTE5	LPAINC08RD3A LPAINC08RD3B	LPAINC08RD5D
	IMMO	39112-2GTE6	LPAINC08RD3B	LPAINC08RD5D

TCM ROM ID Information Table:

MODEL	IMMO.	PCM P/No.	ROM ID	
			OLD	NEW
LFA	IMMO	39112-2GTE5	TLF0T20NL0	TLF0T20NL2
		39112-2GTE6	TLF0T20NL1	

NOTE: IMMO = Start Stop Button

Manual Mode Password Information Table:

EVENT #	MENU	PASSWORD
#458	LFA F/L 2.0T-GDI 8AT EMS +IMMO 39112-2GTE5/6	1226

#459	LFA F/L 2.0T-GDI 8AT TMS 39112-2GTD5/E0/E5/E6	1225
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NOTE: IMMO = Start Stop Button