



Technical Service Bulletin

GROUP CAMPAIGN	NUMBER 18-01-043
DATE DECEMBER 2018	MODEL(S) SANTA FE (TM)

SUBJECT:	ECM & ESC UPDATE – SANTA FE 2.4L ENGINE STARTING PERFORMANCE AND IDLE STOP & GO OPERATION IMPROVEMENT (SERVICE CAMPAIGN T3M)
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* 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 Electronic Stability Control (ESC) software updates for certain 2019MY Santa Fe (TM) equipped with 2.4L engine. The ECM update is revised for starting performance and Idle Stop & Go (ISG) control logic. In addition, the ESC update is revised for hold timing of Hill-start Assist Control (HAC) function to optimized ISG operation.

NOTICE

Both ECM and ESC software updates must be performed on each vehicle.

Applicable Vehicle: Certain 2019MY Santa Fe (TM) with 2.4L engine.

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature	Cause
Santa Fe (TM)	80CA20R0	ECM & ESC UPDATE	0.5 M/H	39171-2GTC0	E24	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 T3M 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.

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GDS Information:

System Selection: **ENGINE CONTROL MODULE (ECM)**

Event #	Description
507*	TMA 2.4GDI - STARTING PERFORMANCE IMPROVEMENT

System Selection: **ELECTRONIC STABILITY CONTROL (ESC)**

Event #	Description
508*	TMA 2.4GDI - HAC CONTROL LOGIC IMPROVEMENT(ESC)

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

Service Procedure:

1. Perform GDS software update:
 - 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.
2. After successful completion of **both ECM & ESC software updates**, 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 ECM/ESC Update in Auto Mode.

- If the ECM/ESC 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
TM 2.4L GDI	IMMO	39171-2GTC0	TMAJNC48SE2A TMAJNC48SE2B TMAJNC48SEAC TMAJNC48SEAD TMAJNC48SEAE	TMAJNC48SEAF
	IMMO	39171-2GTD0	TMAJNC48SE2A TMAJNC48SE2B TMAJNC48SEAC TMAJNC48SEAD TMAJNC48SEAE	TMAJNC48SEAF
	IMMO	39171-2GTC5	TMAJNS48SE2A TMAJNS48SE2B TMAJNS48SEAC TMAJNS48SEAD TMAJNS48SEAE	TMAJNS48SEAF
	NON IMMO	39173-2GTF0	TMAJNC48NE2A TMAJNC48NE2B TMAJNC48NEAC TMAJNC48NEAD TMAJNC48NEAE	TMAJNC48NEAF
	NON IMMO	39173-2GTG0	TMAJNS48NE2A TMAJNS48NE2B TMAJNS48NEAC TMAJNS48NEAD TMAJNS48NEAE	TMAJNS48NEAF

NOTE: IMMO = Start Stop Button, NON IMMO = Key Start

ESC ROM ID Information Table:

MODEL	ESC P/No.	ROM ID	
		OLD	NEW
TM 2.4L GDI	58910-S2500	58910-S2500_100 58910-S2500_101 58910-S2500_102	58910-S2500_103
	58910-S2550	58910-S2550_100 58910-S2550_101 58910-S2550_102	58910-S2550_103
	58910-S2600	58910-S2600_100 58910-S2600_101 58910-S2600_102	58910-S2600_103
	58910-S2650	58910-S2650_100 58910-S2650_101 58910-S2650_102	58910-S2650_103

Manual Mode Password Information Tables:

EVENT #	MENU	PASSWORD
#507	TMA 2.4GDI 8AT ULEV -IMMO 39173-2GTF0	7320
	TMA 2.4GDI 8AT SULEV -IMMO 39173-2GTG0	7321
	TMA 2.4GDI 8AT ULEV +IMMO 39171-2GTC0/D0	7120
	TMA 2.4GDI 8AT SULEV +IMMO 39171-2GTC5	7125

EVENT #	MENU	PASSWORD
#508	TMA 2WD ESC 58910-S2500	2500
	TMA 4WD ESC 58910-S2550	2550
	TMA 2WD ESC 58910-S2600	2600
	TMA 4WD ESC 58910-S2650	2650