 HYUNDAI Technical Service Bulletin	GROUP FUEL SYSTEM	NUMBER 20-FL-001H
	DATE February, 2020	MODEL(S) ELANTRA (AD/ADA)
SUBJECT:	DTC P0300/P0301/P0302/P0303/P0304 ECM SOFTWARE UPDATE AND IGNITION COIL INSPECTION/REPLACEMENT	

This TSB supersedes TSB 19-FL-006H-1 with revised ECM software update and ignition coil external body appearance information.

Description:

Some 2017MY Elantra (AD/ADA) vehicles equipped with 2.0L engine may experience Malfunction Indicator Light illumination with DTC P0300/P0301/P0302/P0303/P0304 (Cylinder “X” – misfire detected). The bulletin provides information on the repair procedure.

Follow the repair procedure below if any of the DTCs P0300/P0301/P0302/P0303/P0304 are present:

- Perform ECM update Event #583 with cylinder imbalance learning logic optimization improvement.
- Inspect ignition coil(s) according to the DTC(s) and if necessary, replace per “REMARKS” in the “Part Information” section below.

Applicable Vehicle: Certain 2017MY Elantra (AD/ADA) equipped with 2.0L engine.

GDS Information:

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

Event #	Description
583*	AD(A) 2.0MPI - MISFIRE DTC IMPROVEMENT (2 nd)

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

Warranty Information:

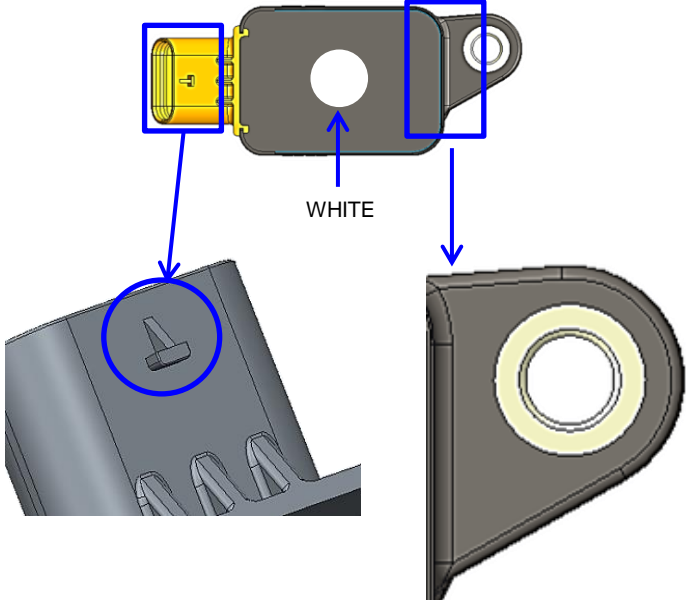
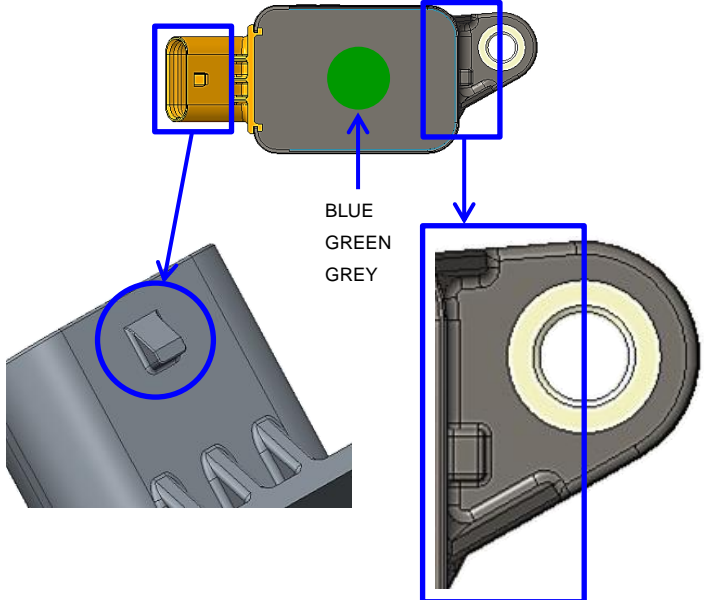
Model	Op. Code	Operation	Op. Time	Causal Part	Nature	Cause
Elantra (AD/ADA)	27300F04	DTC INSPECTION, ECU UPGRADE AND REPLACE IGNITION COIL 1EA/2EA	0.7 M/H	27300-2E601	I3T	ZZ1
	27300F05	DTC INSPECTION, ECU UPGRADE AND REPLACE IGNITION COIL 3EA/4EA	0.8 M/H			
	27300F06	DTC INSPECTION, IGNITION COIL INSPECTION AND ECU UPGRADE	0.4 M/H			

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Part Information:

PART NAME	PART NUMBER	REMARKS
IGNITION COIL	<p style="text-align: center;">27300-2E601</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Older Style</p>  <p>Replacement ignition coil with previous shaft design</p> </div> <div style="text-align: center;"> <p>Newer Style</p>  <p>Replacement ignition coil with updated shaft design</p> </div> </div>	<ul style="list-style-type: none"> Both the older and newer ignition coil shaft styles are interchangeable. Color marking inspection does not apply to the newer style ignition coil with updated shaft design. Replace if the vehicle ignition coil is the older style and has a WHITE or BLUE mark on top. Do not replace if the vehicle ignition coil is the older style and has a GREEN or GREY mark on top.

Older Style Ignition Coil External Body Appearance:

Older Style Ignition coil with WHITE Mark	Older Style Ignition coil with BLUE/GREEN/GREY Mark
 <p style="text-align: center;">WHITE</p>	 <p style="text-align: center;">BLUE GREEN GREY</p>

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Service Procedure:

1. Replace ignition coil(s) according to the shop manual.
 - Engine Electrical System > Ignition System > Ignition Coil
2. Perform GDS Mobile software update per TSB **15-GI-001**.
3. After successful completion of **ECM software update**, check for Diagnostic Trouble Codes in **ALL** menus and erase any DTC.
4. Confirm normal vehicle operation.

NOTICE

You must initially perform GDS-M ECU 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 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.



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ECM ROM ID Information Table:

MODEL	TM	EMISSION	IMMO.	PCM P/No.	ROM ID	
					OLD	NEW
17MY Elantra (AD/ADA) 2.0L	6AT	SULEV	+IMMO	39171-2EFB0 39171-2EFD0	AD7SP2AS655A AD7SP2AS657A AD7SP2AS657B AD7SP2AS65AA AD7SP2AS65DA AD7SP2AF65DA AD7SP2AF65EA	AD7SP2AF65EB
		SULEV	-IMMO	39173-2EFB0 39173-2EFD0	AD7SP2US655A AD7SP2US657A AD7SP2US657B AD7SP2US65AA AD7SP2US65DA AD7SP2UF65DA AD7SP2UF65EA	AD7SP2UF65EB
		ULEV	+IMMO	39171-2EFC0 39171-2EFE0	AD7UP2AS655A AD7UP2AS657A AD7UP2AS657B AD7UP2AS65AA AD7UP2AS65DA AD7UP2AF65DA AD7UP2AF65EA	AD7UP2AF65EB
		ULEV	-IMMO	39173-2EFC0 39173-2EFE0	AD7UP2US655A AD7UP2US657A AD7UP2US657B AD7UP2US65AA AD7UP2US65DA AD7UP2UF65DA AD7UP2UF65EA	AD7UP2UF65EB
	6MT	ULEV	+IMMO	39175-2EFC0	AD7UP2CS657A AD7UP2CS657B AD7UP2CS65AA AD7UP2CS65DA AD7UP2CF65EA	AD7UP2CF65EB
		ULEV	-IMMO	39177-2EFC0	AD7UP2VS657A AD7UP2VS657B AD7UP2VS65AA AD7UP2VS65DA AD7UP2VF65EA	AD7UP2VF65EB

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Manual Mode Password Information Table:

EVENT #	MENU	PASSWORD
#583	AD(A) 2.0MPI AT -IMMO 39173-2EFB0/D0	3200
	AD(A) 2.0MPI AT -IMMO 39173-2EFC0/E0	3201
	AD(A) 2.0MPI MT -IMMO 39177-2EFC0	7720
	AD(A) 2.0MPI AT +IMMO 39171-2EFB0/D0	1200
	AD(A) 2.0MPI AT +IMMO 39171-2EFC0/E0	1201
	AD(A) 2.0MPI MT +IMMO 39175-2EFC0	7520