	GROUP	NUMBER
HYUNDAI	HYBRID CONTROL	19-HC-002H
Technical Service Bulletin	DATE AUGUST 2019	MODEL(S) SONATA HYBRID (YF HEV)

SUBJECT:	BMS SW UPDATE – DTC P1B70

Description:

This bulletin provides instructions for a Battery Management System (BMS) software update to optimize DTC P1B70 - HEV Battery Voltage Too Low diagnostic control logic.

Applicable Vehicles: 2011 ~ 2015MY Sonata Hybrid (YF HEV)

GDS Information:

System Selection: **BMS** (BATTERY MANAGEMENT SYSTEM)

Event #	Description
540*	**YF HEV - P1B70 DTC IMPROVEMENT(BMS)**

(* Use the latest event that appears in the GDS ECU Auto Mode event list for the particular vehicle)

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature	Cause
Sonata Hybrid (YF HEV)	37513F04	BMS UPDATE	0.3 M/H	37513-4R000	I3A	ZZ3

NOTE: Use the applicable BMS P/N listed in the ROM ID Information Table from the following page.

Service Procedure:

1. Perform GDS Mobile software update per TSB **15-GI-001.**
2. After successful completion of **BMS 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 ECU Update in Auto Mode.

- If the ECU 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.

Notice

Warning! lower Battery Voltage.
BATTERY VOLTAGE: 10.8

ROM ID INFORMATION TABLE:

MODEL	SYSTEM	MY	BMS P/N	ROM ID	
				OLD	**NEW**
Sonata Hybrid YF HEV	BMS	11MY	37513-4R000	4600 4700 4800 4900 5080	5180
		12MY	37513-4R000	4920 4940 4960 5060	5160
		13~15MY	37513-4R100	5020 5200 5300 5340 5400	5500

MANUAL MODE PASSWORD INFORMATION TABLE:

EVENT #	MENU	PASSWORD
#540	YF HEV 11MY BMS 37513-4R000 (ROM ID : 4600,4700,4800,4900,5080)	5080
	YF HEV 12MY BMS 37513-4R000 (ROM ID : 4920,4940,4960,5060)	5060
	YF HEV 13~15MY BMS 37513-4R100 (ROM ID : 5020,5200,5300,5340,5400)	5400