



GROUP <b>HYBRID</b>	NUMBER <b>18-HC-003</b>
DATE <b>NOVEMBER, 2018</b>	MODEL(S) <b>Sonata HEV (YF HEV) Tucson Fuel Cell (LM FCEV)</b>

**SUBJECT:** BMS UPDATE AFTER REPLACING LITHIUM BATTERY PACK

**Description:**

This bulletin provides information related to a BMS (Battery Management System) ECU software update that must be performed after replacing a high voltage Lithium Battery in a Sonata HEV (YF HEV) or Tucson Fuel Cell Electric Vehicle (LM FCEV). It must be performed after any one of the following HEV Lithium Battery service parts are installed:

Vehicle	Lithium Battery Service Part Number
Sonata HEV (YF HEV)	37511-4R200
	37511-4R201
	37511-4R202
Tucson Fuel Cell Electric Vehicle (LM FCEV)	37501-4W100

**NOTE:**

- All Lithium Battery replacement service part cases require Techline approval and part order will be placed on manual allocation by Mobis.
- Dealer Parts Department cannot order Lithium Battery.

**Applicable Vehicle:**

- 2011-2015MY Sonata Hybrid (YF HEV)
- 2015-2017MY Tucson Fuel Cell Electric Vehicle (LM FCEV)

**GDS Information:**

System Selection: <b>BMS</b>	
Event #	Description
<b>472</b>	YF HEV - BMS PARAMETER UPDATE(AFTER CHANGING THE BATTERY CELL)
<b>473</b>	LM FCEV - BMS PARAMETER UPDATE (AFTER CHANGING THE BATTERY CELL)

**Warranty Information:**

Model	Op Code	Operation	Op Time	Causal Part	Nature Code	Causal Code
YF HEV	37513F02	BMS UPGRADE	0.2 M/H	37513-4R000	I3A	ZZ3
LM FCEV				37513-4W000		

**ROM ID Table:**

MODEL	SYSTEM	BMS P/No.	ROM ID	
			Previous	NEW
YF HEV	BMS	375134R000	4600	6020
			4700	
			4800	
			4900	
			5080	
		5180		
		375134R100	4920	6000
			4940	
			4960	
			5060	
5160				
37513E7000	5020	6040		
	5200			
	5340			
	5500			
	5300			
LM FCEV	375134W000	5320	4300	
		5340		
		5400		
		5500		
		4040		
		4060		
4062				
4100				
4120				
4200				

**NOTICE**

**You must initially perform the 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 operate the vehicle in Ready mode for 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.



**Service Procedure:**

1. Perform GDS software update:
  - Refer to TSB **15-GI-001** for the detailed tablet-based Mobile GDS ECU update procedures.
  - Refer to TSB **15-GI-002** for the detailed PC-based GDS ECU update procedures.
2. Check for Diagnostic Trouble Codes in the **ALL** menus and erase any DTC.
3. Erase the DTC in the BlueLink system according to TSB 12-BE-005-2.
4. Confirm normal vehicle operation.

**Manual Mode Password:****#472(YF HEV)**

MENU	PASSWORD
YF HEV BMS 37513-4R000 (ROM ID: 4600,4700,4800,4900,5080,5180)	4000
YF HEV BMS 37513-4R000 (ROM ID: 4920,4940,4960,5060,5160)	4001
YF HEV BMS 37513-4R100/E7000 (ROM ID: 5020,5200,5300,5320,5340,5400,5500)	4100

**#473(LM FCEV)**

MENU	PASSWORD
LM FCEV BMS 37513-4W000	4000