# HYUNDAI

**Technical Service Bulletin** 

GROUP NUMBER FUEL SYSTEM 18-FL-001 DATE MODEL(S) **APRIL**, 2018

TUCSON (LM FCEV)

#### FUEL CELL CONTROL UNIT (FCU) SOFTWARE UPDATE SUBJECT:

# **\*** IMPORTANT

Dealers should perform this software improvement whenever an affected vehicle is in the shop for any maintenance or repair.

Description: This bulletin provides information related to the FCU (Fuel Cell Control Unit) software update for TUCSON FCEV (LM FCEV) vehicles. This update includes improvement for fuel cell stack durability and diagnosis condition.

# Applicable Vehicles:

15MY ~ 17MY Tucson (LM) Fuel Cell Electric Vehicle VIN range KMHJU816FEU000140 ~ KM8JU3A67HU001045

#### [NOTE]

- To verify the vehicle is affected, be sure to check the version of the vehicle's control unit ROM ID with reference to the ROM ID Information Table mentioned below before attempting to update the control unit software.

**ROM ID Information Table:** 

Part Number	Current ROM ID	Updated ROM ID
39931-4W000	HLMFFZMPAS1-D000 HLMFFZMPAS2-D000 HLMFFZMPAS3-D000	HLMFHZMPAS4-D000

# **GDS MOBILE** Information:

Event #	Description
463	LM FCEV FCU SOFTWARE UPGRADE

# Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature	Cause
Tucson Fuel Cell	39930F02	FCU UPDATE	0.3 M/H	39931-4W000	I14	ZZ3

## **SERVICE PROCEDURE:**

#### **General Precautions:**

# NOTICE

Make sure the battery icon at the bottom right of the GDS-Mobile shows at least 50%; if not, charge the GDS-Mobile or attach a battery charger.

- If vehicle has been in storage for several days, run the fuel cell a sufficient amount of time to ensure the 12 volt battery is fully charged.
- To ensure the 12 volt battery will not become discharged during the update. Turn off all lights and all accessories, including heater/air conditioner, fan, audio, heated seats, rear defroster, etc. Do not leave the headlight switch in auto mode.
- Perform the update with the vehicle Start/Stop button in the ON position. To do this, press the Start/Stop button two times without pressing the brake pedal.
- Do not start the Fuel Cell.
- Do not turn OFF the Start/Stop button during the update.
- Do not disconnect any cables connected to the vehicle or the GDS Mobile during the update.

# NOTICE

Confirm your GDS Mobile has the most recent software version. If not, connect the GDS Mobile to an Internet port, open the GDS Mobile home page and select "Update". Refer to instructions on <u>www.hyundaitechinfo.com</u> if necessary.

If you encounter GDS related problems, call the GIT Helpline at 888-437-0308.

# 

If voltage is below 12 volts as per the below GDS warning, select Back Button the run the fuel cell or charge the 12 volt battery to ensure an adequate state of charge for reliable update results. Turn system power back on and then retry the ECU update again.

	Warning!   BATTERY	ower Battery Voltage. VOLTAGE: 10.8	
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# Automatic Update Procedure Using GDS-Mobile (Global Diagnostic System - Mobile)

1. Connect external power to the GDS Mobile.

Connect the VCI-II into the vehicle's DLC connector under the driver side instrument panel and check that the VCI-II is powered on.

 Turn on vehicle system power by pressing the Start/Stop button two times without pressing the brake pedal. DO NOT start the fuel cell.



DO NOT set up the

**Trigger Module** 

OBD-II

DLC

## [NOTE]

ECU upgrade function on GDS-Mobile is basically operating in wireless communication as Wi-Fi direct. Also it's possible to perform the upgrade via USB cable between GDS Mobile and VCI-II.
 Before starting the ECU upgrade, make certain that the battery of GDS Mobile is sufficiently charged.

3. Select "**ECU Upgrade**" on the initial screen after entering the vehicle information.





- 4. Read CAUTIONS in Information tab.
- 5. Select "Auto Mode".

6. Select the FCU System, then select ID Check button.

If after selecting ID check a pop-up window states the ECU upgrade has already been completed, then select "**OK**" and no further action is required.





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7. The GDS-Mobile will read the current ROM ID in vehicle and check the newest upgrade event.

Select the upgrade event "463.LM FCEV FCU -STACK DURABILITY IMPROVEMENT". Then then select "Upgrade".



8. The vehicle battery voltage is checked to make sure it is at least 12 volts to assure reliable upgrade results.

Click "OK" if the results indicate "Voltage is OK".

[NOTE] - If voltage is below 12 volts as shown, select Back Button " ?" and then run the fuel cell or charge the 12 volt battery to ensure an adequate charge state for reliable upgrade results.



9. Upgrade (1/2) will begin and the progress of the upgrade will appear on the bar graph.

Upgrade (1/2) will occur until 100% is reached on the bar graph.

10. Upgrade (2/2) will begin and the progress of the upgrade will appear on the bar graph.

Upgrade (2/2) will occur until 100% is reached on the bar graph.

NOTE: Instrument panel warning lights may flash, and warning chirp may sound during this portion of update.

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11. Turn the system power to "**OFF**" using the Start/Stop button, and wait 10 seconds, turn system power to "**ON**" again, DO NOT start the fuel cell.

Select "**OK**" to continue according to information displayed on the screen.

12. Select "**OK**" on the final screen, which indicates upgrade is complete.

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Do	not touch	any system b	uttons while perf	orming this function.
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S/W Ver.	M-N-H-	01-00-0115	VCI Ver.	
	M-N-H-	01-00-0070	OS Ver.	Android 5.1.1
ECU Ver.				

HOME Online		TUCSON Fue	/2015/100KW	VCI 🕿	•	[+]
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463.LM FCEV	/ FCU - S	TACK DURABILITY	IMPROVEMENT			
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OROM ID						
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13. When prompted to run Fault Code Searching, select "Yes".

14. Check and clear any incidental Diagnostic Trouble Codes (DTC) created during the update. Check and clear both "Current" and "History/Pending" DTCs.

		CU Upgrade		
C TUCSON Fue	el Cell(LM FCEV)	> 2015 > 100	ĸw	
Notice	Do you want to	o run Fault Code	e Searching?	
	Yes		No	
Latest Update	HLMFH	ZMPAS4-D000		
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CAUTION				
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> TUCSO	> TUCSON Fuel Cell(LM FCEV)			100KW	
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FCU	SVM	BPCU	ABS/ESC	AHB AIRE	AG
1/2	96	4/15	1	56	$\langle \rangle$
AIRCON	EPS	TPMS	PDM	SMK BC	
SJB					
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2. Ensure th	at the ba	TUCSON Fuel	/2015/100KW	U upgrade.	
3. Confirm	the target		************************************	a manual/error	mode
D	o not touch any	system butt	ons while perf	orming this function	1.
S/W Ver.	M-N-H-01-0	0-0115	VCI Ver.		
ECU Ver.	M-N-H-01-0	0-0070	OS Ver.	Android 5.1.1	
ECU Cal. ID			TCU Cal. ID		

15. Start the fuel cell and confirm proper operation of the vehicle.

#### GDS-Mobile, Manual Mode FCU Update Procedure:

- NOTICE
- Manual update should be performed only when the automatic update fails.
- If automatic update fails, turn off vehicle system power using Start/Stop button wait 10 seconds, and then restore vehicle system power using Start/Stop button to reset the control unit before performing manual update.
- 1. Within the ECU Upgrade screen, select "Manual Mode".

- 2. Select the appropriate control unit part number referenced in the ROM ID Table on page one of this TSB.
- 3. Select "Upgrade".

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D	to not touch a	any system bu	ttons while perfo	rming this func	tion.
Ver.	M-N-H-01	-00-0115	VCI Ver		
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OME C	M8JU3A64G	U000580 TUCSON Fue	Diagnosis No M/2016/100KW	vci 🕿	180330007i 30/18 14:16
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System	20				>
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4. Enter the password to the right select "**OK**".

MENU	PASSWORD
LM FCEV FCU 39930-4W000	4000

 The vehicle battery voltage is checked to make sure it is at least 12 volts to assure reliable upgrade results.

Click "**OK**" if the results indicate voltage is Ok.

[NOTE] - If voltage is below 12 volts as shown, select Back Button and then run the fuel cell or charge the 12 volt battery to ensure an adequate charge state for reliable upgrade results.

6. Upgrade (1/2) will begin and the progress of the upgrade will appear on the bar graph.

Upgrade (1/2) will occur until 100% is reached on the bar graph.

7. Upgrade (2/2) will begin and the progress of the upgrade will appear on the bar graph.

Upgrade (2/2) will occur until 100% is reached on the bar graph.

NOTE: Instrument panel warning lights may flash, and warning chirp may sound during this portion of update.

Notice		P
	Warning! lower Battery Voltage. BATTERY VOLTAGE: 10.8	
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		ECILUpar	wing (1/2)	
	ECU	is in the proces	s of being upg	raded.
ROM ID		Please wait	a few minute.	
Currently	in Vehicle			
Latest Up	date	HLMFHZMPA	S4-D000	
			214	
	Inform	ation		
CAUTION				
CU Ver. CU Cal. ID	M-N-H-(	01-00-0070	OS Ver. TCU Cal. ID	Android 5.1.1
			Diaman' 1	
<b>D)</b> ки	//8JU3A62I	FU000222	Diagnosis No	o : B28AACA5031803 03/26/18
	M8JU3A62I	FU000222 TUCSON Fuel	Diagnosis No /2015/100KW	>: B28AACA5031803 03/26/18
номе ог	M8JU3A62I	FU000222 TUCSON Fuel ECU L	Diagnosis No /2015/100kw	vci 🕿 🚯
HOME OF	M8JU3A621 hime Fuel Cell(L	FU000222 TUCSON Fue ECU L .M FCEV) > 201	Diagnosis No /2015/100KW /pgrade 5 > 100KW	v: B28AACA5031803 03/26/18 vci 🕿 <table-cell></table-cell>
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8. Turn the system power to "**OFF**" using the Start / Stop button, and wait 10 seconds, turn system power to "**ON**" again, DO NOT start the fuel cell.

Select "**OK**" to continue according to information displayed on the screen.

9. Select "**OK**" on the final screen, which indicates upgrade is complete.

	FU000222	Diagnosis N	0 : B28AACA5031803260111 03/26/18 14:40					
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10. When prompted to run Fault Code Searching select "**Yes**".

11. Check and clear any incidental Diagnostic Trouble Codes (DTC) created during the update. Check and clear both "Current" and "History/Pending" DTCs.



12. Start the fuel cell and confirm proper operation of the vehicle.