	GROUP	NUMBER
HYUNDAI Technical Service Bulletin	BRAKES	17-BR-002-1
	DATE	MODEL(S)
	NOVEMBER, 2017	Santa Fe Sport (AN) Santa Fe (NC)
		ANITA EE 3 31

This TSB supersedes 17-BR-002 to update the applicable vehicles production dates.

Description: This bulletin describes the procedure to update the Traction Control System (TCS) logic on some 2017-2018MY Santa Fe Sport (AN) 2.0T and Santa Fe (NC) 3.3L vehicles. This update helps reduce unnecessary TCS engagement during low speed / dry road acceleration.



Applicable Vehicles:

- 2017~2018MY Santa Fe Sport (AN) vehicles equipped with 2.0T engine.
 - HMMA-built (AN) vehicles: 17MY SOP to September 1, 2017.
 - KMMG-built (AN) vehicles: 17MY SOP to September 5, 2017.
- 2017~2018MY Santa Fe (NC) vehicles produced from 17MY SOP to June 5, 2017.

GDS Information:

EVENT#	DESCRIPTION
444 (or later compatible event)*	DMA 2.0T-GDI TCS Control Logic Improvement (ESC)
445 (or later compatible event)*	NC 3.3GDI TCS Control Logic Improvement (ESC)

(* The latest event that appears in the ESC Auto Mode event list for the particular vehicle)

Warranty Information:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
Santa Fe Sport (AN) – <i>Without SCC/AEB</i>		ESC Update	0.2 M/L	58920-4Z300	14.4	770
Santa Fe Sport (AN) – With SCC/AEB	59000E01			58920-4Z400		
Santa Fe (NC) – <i>Without SCC/AEB</i>	36900001	ESC Opuale	0.3 10/1	58920-B8AC0	114	223
Santa Fe (NC) – <i>With SCC/AEB</i>				58920-B8BC0		

ROM ID Information Table:

MODEL	ENGINE	ESC D/No	ROM ID	
WODEL	ENGINE	ESC F/NO	OLD	NEW
Conto Fo		58920-4Z300 (Non SCC/AEB)	S36GAD1C11-2-5426 S36GAF1D12-2-5A18 S36GAF1E12-2-6C27	S36GAG1E12-2-7320
Santa Fe Sport (AN) 2.0T-GDI	58920-4Z400 (SCC/AEB)	S36KAD1C11-2-5429 S36KAE1C11-2-5512 S36KAG1D12-2-5A19 S36KAG1E12-2-6C28	S36KAH1E12-2-7321	
Santa Fe		58920-B8AC0 (Non SCC/AEB)	S46GAD1B10-2-5721 S46GAE1B10-2-5A08 S46GAF1B10-2-5A18 S46GAF1C10-2-6C29	S46GAG1C10-2-7322
(NC) 3.3GDI	58920-B8BC0 (SCC/AEB)	S46KAD1B10-2-5725 S46KAE1B10-2-5A12 S46KAF1B10-2-5A19 S46KAF1C10-2-7102	S46KAG1C10-2-7323	

Service Procedure:

NOTICE

This Service Procedure is performed using GDS-mobile. For update information and general precautions, please refer to TSB #15-GI-001.

Manual mode should only be performed when the Auto update fails.

If the auto update fails, turn the ignition OFF for 10 seconds, then back ON again to reset the control unit before performing the manual update.

Auto Update Mode:

1. Connect a GDS (or G-Scan) tool to the vehicle.

From the home screen, select **ECU Upgrade**.

2. Select Auto Mode.

sis ECU Upgrade ECU Upgrade Actuation Test Record Data Bervice Info. Prese Service Info. Prese P
Actuation Test Actuation Test Flight Recorded Data OBD-II OBD-II OBD-II
OBD-II OBD-II Service Info. e-Repor
Service Info. e-Report
DI
anual Mode
Event List
ignition key to the OFF positio beginning ECU upgrade. rforming a manual/error mod rforming an ECU upgrade. ed in the related TSB is used. placed BEFORE performing th

3. Select **ABS/ESC** system, and then click **ID Check**.

The current and target ROM IDs will be shown.

Verify the ROM IDs according to the ROM ID Information Table on page 2.

Verify the applicable event number and description is shown under **Event Group.**

Click **Upgrade** to proceed with the update.

1 5-3 ECU Upgrade • SANTAFE SPORT(DMA) > 2017 > G 2.0 T-GD System ROM ID Currently in Vehicle \$36KAG1D12-2-5A19 ID Check Latest Update S36KAH1E12-2-7321 Event Group 444.DMA 2.0T-GDI TCS CONTROL LOGIC IMPROVEMENT(ESC) . Previous Upgrade Information 2. Ensure that the battery is fully charged BEFORE beginning ECU 3. Confirm the target vehicle/system BEFORE performing a manual/error mode ECU upgrade. 4. Review the applicable TSB/procedure before performing an ECU upgrade. 5. Make certain that the proper connector mentioned in the related TSB is used. 6. Ensure that any applicable components are replaced BEFORE performing the ECU upgrade. 7. Confirm the new ROM ID after performing an ECU upgrade. 8. Do not disconnect the communication with vehicle during upgrading the ECU!! Do not touch any system buttons while performing this function. CAUTION P

SANTAFE SPOR .. /2017/G 2.0 T-G.

4. Read the caution message, then click **OK** to continue.



5. Once **ECU Upgrading... (2/2)** is completed, turn the ignition OFF for 10 seconds, then back on again.

Click **OK** to continue.

6. Click **OK** after update is completed.

	ECULIParadian (2/2)
then ba	Turn IG off for 10 seconds and teck on. Click the OK button to continue.
ID ID	
Currently in Vehicle	\$36KAG1D12-2-5A19
Latest Update	\$36KAH1E12-2-7321
	r
444.DMA 2.0T-GDI TO	OK
444.DMA 2.0T-GDI TO	OK CS CONTROL LOGIC IMPROVEMENT(ESC)
444.DMA 2.0T-GDI TO	OK CS CONTROL LOGIC IMPROVEMENT(ESC)
444.DMA 2.0T-GDI TO The ECI	OK CS CONTROL LOGIC IMPROVEMENT(ESC) USS Succeed U Upgrade has successfully completed.
444.DMA 2.0T-GDI TO The ECI ROM ID Currently in Vehicle	OK CS CONTROL LOGICI IMPROVEMENT(ESC) TOOL Succeed U Upgrade has successfully completed.
444.DMA 2.0T-GDI TO The EC ROM ID Currently in Vehicle Latest Update	OK CS CONTROL LOGIC IMPROVEMENT(ESC) UN Succeed U Upgrade has successfully completed. S366KAH1E12-2-7321 S36KAH1E12-2-7321

7. When prompted, click **Yes** to run fault code search.

Select all systems to check for DTCs.

Erase any DTCs found.

Start the engine and confirm proper operation of the vehicle.

Notice				
	Do you want to	run Fault (ode Searching?	
	Yes		No	

Manual Update Mode:

NOTICE

Manual mode should only be performed when the Auto update fails.

If the auto update fails, turn the ignition OFF for 10 seconds, then back ON again to reset the control unit before performing the manual update.

1. Connect a GDS (or G-Scan) tool to the vehicle.

From the home screen, select **ECU Upgrade**.



2. Select Manual Mode.



3. Select ABS/ESC system.

Select the applicable part number (with SCC/AEB or without SCC/AEB) according to the Warranty Information Table.

Click **Upgrade** to proceed with the update.

3a. One way to verify which part number is correct for a specific vehicle is to check the part number visually on the ESC module.

The ESC module is located at the rear of the engine compartment, on the passenger side.

Once located, inspect the part label to see the part number.





4. Input the correct password when prompted, according to the tables below, then click **OK**.



#444 Santa Fe Sport (AN)

MENU	PASSWORD
DMA 2.0T-GDI ESC 58920-4Z300	4300
DMA 2.0T-GDI ESC 58920-4Z400	4400

#445 Santa Fe (NC)

MENU	PASSWORD
NC 3.3GDI ESC 58920-B8AC0	0800
NC 3.3GDI ESC 58920-B8BC0	0081

5. Once **ECU Upgrading... (2/2)** is completed, turn the ignition OFF for 10 seconds, then back on again.

Click **OK** to continue.

6. Click **OK** after update is completed.

	100% ECU Upgrading(2/2)
then ba	Turn IG off for 10 seconds and ick on. Click the OK button to continue.
ROM ID	
Currently in Vehicle	
Latest Update	S46GAG1C10-2-7322

445.NC 3.3GDI TCS C	DNTROL LOGIC IMPROVEMENT(ESC)
	Successed
	Succeed
The ECU	J Upgrade has successfully completed.
@ROM ID	
Currently in Vehicle	\$46GAG1C10-2-7322
Latest Update	S46GAG1C10-2-7322
	ок

7. When prompted, click **Yes** to run fault code search.

Select all systems to check for DTCs.

Erase any DTCs found.

Start the engine and confirm proper operation of the vehicle.

Notice				
Do you want to run Fault Code Searching?				
	Yes	No		