		GROUP BRAKES	NUMBER 17-BR-002
	HYUNDAI nnical Service Bulletin	DATE JULY, 2017	MODEL(S) Santa Fe Sport (AN)
			Santa Fe (NC)
SUBJECT:	TCS UPDATE AN SANTA FES	SPORT 2.0T, NC	SANTA FE 3.3L

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. 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>	58000501		0.014	58920-4Z300	14.4	773
Santa Fe Sport (AN) – <i>With SCC/AEB</i>				58920-4Z400		
Santa Fe (NC) – Without SCC/AEB	58900F01 ESC Update	0.3 M/H	58920-B8AC0	114	223	
Santa Fe (NC) – With SCC/AEB				58920-B8BC0		

ROM ID Information Table:

MODEL ENGINE		ESC P/No	ROM ID		
WODEL	ENGINE	ESC F/NO	OLD	NEW	
Conto Es		58920-4Z300 (Non SCC/AEB)	S36GAD1C11-2-5426 S36GAF1D12-2-5A18 S36GAF1E12-2-6C27	S36GAG1E12-2-7320	
Santa Fe Sport (AN)	2(1) - (-1)	58920-4Z400 (SCC/AEB)	S36KAD1C11-2-5429 S36KAE1C11-2-5512 S36KAG1D12-2-5A19 S36KAG1E12-2-6C28	S36KAH1E12-2-7321	
Santa Fe	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.

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	e Searching	ECU Upgrade
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	Data Analysis	JUU Test
DTC Analysis	Multi Data Analysis	Recorded Data
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S/W Management		овр- п
reparation Tech Info		
recitingo	More	Service Info. e-Rep
	More ANTAFE SPOR/2017/G 2.0 T-G	Service Info. e-Rep
HOME OffLine	ANTAFE SPOR/2017/G 2.0 T-G	Service Info. e-Rep
HOME OffLine	ANTAFE SPOR. /2017/G 2.0 T-G	Service Info. e-Rep
HOME OffLine	ANTAFE SPOR/2017/G 2.0 T-G ECU Upgrade)) 3 2017 3 G 2.0 T-GDI	Service Info. e-Rep
HOME OffLine	ANTAFE SPOR. /2017/G 2.0 T-G ECU Upgrade) > 2017 > G 2.0 T-GDI	Service Info. e-Rep
HOME Offline	ANTAFE SPOR. /2017/G 2.0 T-G ECU Upgrade) > 2017 > G 2.0 T-GDI	Service Info. e-Rep Voi = 😵

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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.

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.

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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.

	ECU Upgrading(2/2)
	Furn IG off for 10 seconds and k on. Click the OK button to continue.
ROM ID	
Currently in Vehicle	\$36KAG1D12-2-5A19
Latest Update	\$36KAH1E12-2-7321
	ок
	100%
	C
The ECU	Succeed Upgrade has successfully completed.
The ECU ROM ID	
ROM ID	Upgrade has successfully completed.

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 F	ault Code Searching?	
	Yes	No	

Manual Update Mode:

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

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

2. Select Manual Mode.

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	Jpdate TSB	MORE D
	rmation found. check Internet connection and Lo	g in.
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~ (1) H	(9)2	
Fault Code	Searching	
T duit coue	ocarcinity	ECU Upgrade
Pacas 193.655	JNO	Actuation Test
(P)	Data Analysis	Flight Record
DTC	han- Utr	
Analysis	Multi Data Analysis	Recorded Data
		20
S/W Management	Measurement	OBD-II
Preparation Tech Info	More	Service Info. e-Report
HOME OffLing	SANTAFE(NC)/2017/G 3.3 GDI	
		Volas 🏶 🔄
	ECU Upgrade	voi 📾 🚯 [3]
SANTAFE(NC) > 2017		VCISE 😨 🚱
		vci 🔉 🚯 [4]
	→ G 3.3 GDI	
	→ G 3.3 GDI	ual Mode
SANTAFE(NC) > 2017	→ G 3.3 GDI	
	e a 3.3 GDI	
E SANTAFE(NC) > 2017	e a 3.3 GDI	ual Mode
CAUTION	» G 3.3 CDI Man	ual Mode
EANTAFE(NC) > 2017 Auto Mo Informatio CAUTION 1, DO NOT start the engine during the ECU upgrade.	G 3.3 CDI	ual Mode Event List
CAUTION Confirm the target vehicle Confirm the	» G 3.3 CDI Man	ual Mode Event List
CAUTION Auto Mo Informatio CAUTION Do NOT start the engine during the ECU upgrade. Confirm the target vehic ECU upgrade. Cupgrade. Cupgrade. Cupgrade. Cupgrade. Cupgrade. Cupgr	G 3.3 CDI	ual Mode Event List on key to the OFF position ning ECU upgrade. ing a manual/error mode ing an ECU upgrade.
SANTAFE(NC) > 2017 Auto Mo Informatio CAUTION Do NOT start the engine during the ECU upgrade. S. Confirm the target vehic ECU upgrade. Review the applicable TS S. Make certain that the pro ECU upgrade. Review the any applicable TS Confirme that a	and DO NOT turn the ignitic fully charged BEFORE perform	Event List
Confirm the new ROM ID Confi	G 3.3 CDI	Event List Event List an key to the OFF position ning ECU upgrade. ling a manual/error mode ing an ECU upgrade. the related TSB is used. d BEFORE performing the trade.
Confirm the new ROM ID Confi	G 3.3 CDI	Event List Event List an key to the OFF position ning ECU upgrade. ling a manual/error mode ing an ECU upgrade. the related TSB is used. d BEFORE performing the trade.
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Confirm the new ROM ID Confi	G 3.3 CDI	Event List Event List an key to the OFF position ning ECU upgrade. ling a manual/error mode ing an ECU upgrade. the related TSB is used. d BEFORE performing the trade.

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**.

ECU Upgrade	€
Password	\$
Check the TSB	
ок	

#444 Santa Fe Sport (AN)

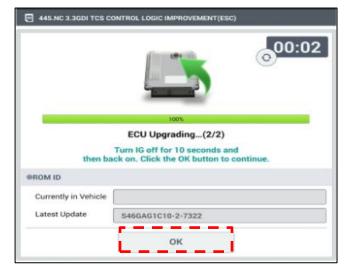
MENU	PASSWORD
DMA 2.0T-GDI ESC 58920-4Z300	4300
DMA 2.0T-GDI ESC 58920-4Z400	4400

#445 Santa Fe (NC)

MENU	PASSWORD
NC 3.3GDI ESC 58920-B8AC0	0080
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%
	Succeed
The ECI	J Upgrade has successfully completed.
@ROM ID	
Currently in Vehicle	\$46GAG1C10-2-7322
Latest Update	\$46GAG1C10-2-7322
	ок
Notice	ou want to run Fault Code Searching?
Do y	

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.