 <b>HYUNDAI</b> <b>Technical Service Bulletin</b>	<b>GROUP</b> <b>AUTOMATIC TRANSMISSION</b>	<b>NUMBER</b> <b>19-AT-001</b>
	<b>DATE</b> <b>January, 2019</b>	<b>MODEL</b> <b>ELANTRA ECO (ADa),  ELANTRA SPORT (AD),  SONATA ECO (LFa), TUCSON  (TL), VELOSTER (FS)</b>
<b>SUBJECT: TCU SOFTWARE UPDATE WHEN REPLACING 7-SPEED DCT</b>		

**This TSB supersedes TSB 18-AT-014 to include 2017-2018 Elantra Sport (AD) and 2015-2017 Sonata Eco (LFa).**

**Description:** This bulletin provides the procedure to update the TCU (Transmission Control Unit) in certain vehicles (listed Below) when replacing the Dual Clutch Transmission (DCT) with updated clutch material. This bulletin also provides a method of identifying transmissions with the updated F850 clutch material.

<b>Applicable Vehicles:</b>	2017-2018 Elantra Eco (ADa) 1.4L Turbo 2017-2018 Elantra Sport (AD) 1.6L Turbo 2015-2017 Sonata Eco (LFa) 1.6L Turbo 2016-2017 Tucson (TL) 1.6L Turbo 2016-2017 Veloster (FS) 1.6L Turbo
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**Parts Information:**

Refer to the chart below to identify Dual Clutch Transmissions that are manufactured with the updated F850 clutch material.

MODEL	CONFIGURATION	PREVIOUS TRANSMISSION PART NUMBER	NEW TRANSMISSION NUMBER (F850)
2017-2018 Elantra Eco (ADa) 1.4L Turbo	2WD	43000-2C200	43000-2C205
2017-2018 Elantra Sport (AD) 1.6L Turbo	2WD	43000-2D071	43000-2D077
2015-2017 Sonata Eco (LFa) 1.6L Turbo	2WD	43000-2D020	43000-2D032
2016-2017 Tucson (TL) 1.6L Turbo	2WD	43000-2D010	43000-2D015
	4WD	43000-2D050	43000-2D055
2016-2017 Veloster (FS) 1.6L Turbo	2WD	43000-2D040	43000-2D045

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**Warranty Information:**

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
Elantra Eco (ADa) Elantra Sport (AD) Sonata Eco (LFa) Tucson (TL) Veloster (FS)	41200F01	TCU Update	0.3 M/H	See Table Above for Previous Transmission Part Number	V42	ZZ5

**GDS Information: System Selection: TCU**

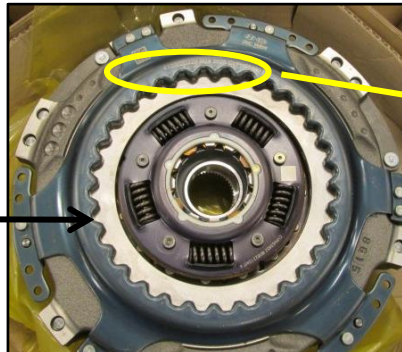
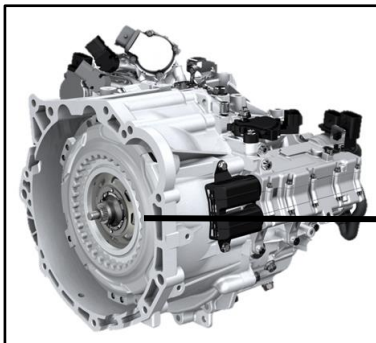
Event #	Model	Description
464	AD	1.6T 7DCT CONTROL LOGIC IMPROVEMENT(F850 clutch material only)
465	ADa	1.4T 7DCT CONTROL LOGIC IMPROVEMENT(F850 clutch material only)
466	FS	1.6T 7DCT CONTROL LOGIC IMPROVEMENT(F850 clutch material only)
467	LFa	1.6T 7DCT CONTROL LOGIC IMPROVEMENT(F850 clutch material only)
468	TL	1.6T 7DCT CONTROL LOGIC IMPROVEMENT(F850 clutch material only)

**ECM Manual Mode Password Information Table:**

Menu	Vehicle Type	Password
AD 1.6T-GDI(7DCT) TCU 95441-2DCEO	ALL 1.6T	4120
ADa 1.4T-GDI (7-DCT) TCU 95441-2CCA0	ALL 1.4T	4121
LFa 1.6T-GDI(7DCT) TCU 95441-2D000/1	ALL 1.6T	2001
TL 1.6T-GDI (7-DCT) 95441-2D720	ALL 1.6T	2720
FS 1.6T-GDI (7-DCT) TCU 95441-2D400	ALL 1.6T	2400

**Updated F850 clutch material identification:**

MODEL	PREVIOUS CLUTCH PART NUMBER (F833DS)	NEW CLUTCH PART NUMBER (F850)
2017-2018 Elantra ECO (ADa) 1.4L Turbo	41200-2C101	41200-2C220
2017-2018 Elantra Sport (AD) 1.6L Turbo 2015-2017 Sonata Eco (LFa) 1.6L Turbo 2016-2017 Tucson (TL) 1.6L Turbo 2016-2017 Veloster (FS) 1.6L Turbo	41200-2D101	41200-2D220



**ROM ID Information Table:**

MODEL	SYSTEM	PART NUMBER		ROM ID	
		OLD	NEW	OLD	NEW
Elantra Eco (ADa)	TCU	95440-2CCA0	95440-2CCA1	DAD0T14NS0 DAD0T14NS1 DAD0T14NS2	DAD0T14NS5
Elantra Sport (AD)	TCU	95440-2DCE0	95440-2DCE1	DAD0T16NS0 DAD0T16NS1 DAD0T16NS2	DAD0T16NS4
Sonata ECO (LFa)	TCU	95440-2D000 95440-2D001	95440-2D040	DLF0T16NS0 DLF0T16NS1 DLF0T16NS2 DLF0T16NS3 DLF0T16NS4 DLF0T16NS5 DLF0T16NS6 DLF0T16NS7 DLF0T16NS8 DLF0T16NS9 DLF0T16NSA DLF0T16NSB DLF0T16NSC	DLF0T16NSD
Tucson (TL)	TCU	95440-2D720	95440-2D721	DTLOT16NS0 DTLOT16NS1 DTLOT16NS2 DTLOT16NS3 DTLOT16NS4 DTLOT16NS5 DTLOT16NS6 DTLOT16NS7 DTLOT16NS8	DTLOT16NNSD
Veloster (FS)	TCU	95440-2D400	95440-2D401	DFSOT16NS0 DFSOT16NS1 DFSOT16NS2 DFSOT16NS3 DFSOT16NS4 DFSOT16NS5 DFSOT16NS6 DFSOT16NS7 DFSOT16NS8 DFSOT16NS9 DFSOT16NSA DFSOT16NSB	DFSOT16NSC



**CAUTION**

The TCU software update should only be performed when the Dual Clutch Transmission or Double-Clutch set has been replaced with the updated F850 clutch material.

**NOTICE**

- **The TCU software can only be performed in manual mode.**
- Refer to the General Instructions found in TSB: 15-GI-001 (GDS Mobile) and 15-GI-002 (PC GDS).

**Service Procedure:**

1. When replacing a Dual Clutch Transmission, refer to the table on page 2 of this TSB to identify new or old clutch material.
2. Only if the Dual Clutch Transmission is identified to have the new F850 clutch material should you perform the TCU update procedure.
3. The TCU update can only be performed in **Manual Mode**. Follow TSB: 15-GI-001 (GDS Mobile) and 15-GI-002 (PC GDS) for GDS update procedure.
4. Check for Diagnostic Trouble Codes in the **ALL** menus and erase any DTC.
5. Erase the DTC in the BlueLink system according to TSB 12-BE-005-2.
6. Confirm normal vehicle operation.