

**HYUNDAI**NEW THINKING.
NEW POSSIBILITIES.**Technical Service Bulletin**

GROUP

RECALL

NUMBER

16-01-038-1

DATE

November 2016

MODEL(S)

TUCSON (TL)**SUBJECT:****DCT CONTROL LOGIC UPDATE
(RECALL 149)****HYUNDAI**
Global Diagnostic System**ECU Update**

This TSB supersedes TSB # 16-01-038 with updated Dual Clutch Transmission control logic software that includes some improvements to low speed driving characteristics and P0128. Please be advised that the OP code has changed.

*** IMPORTANT******* Dealer Stock and Retail Vehicles *****

As required by federal law, dealers must not deliver new vehicles for sale or for lease to customers until all open recalls have been performed. Dealers must also perform all open recalls on used vehicles, demo and rental vehicles prior to placing them into customer use and whenever an affected vehicle is in the shop for any maintenance or repair.

When a vehicle arrives at the service department, access Hyundai Motor America's "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.

Description:

Eco, Sport, and Limited trim 2016 Hyundai Tucsons are equipped with a 7-speed EcoShift® Dual Clutch Transmission (DCT). In specific operating conditions, the transmission clutch application logic can result in a delayed engagement when accelerating from a stop. If the accelerator pedal is steadily depressed for approximately 1.5 to 2 seconds, the vehicle will begin to accelerate and normal driving is resumed. However, if the accelerator pedal is repeatedly cycled, the vehicle will not accelerate. The inability to move the vehicle in traffic may increase the risk of a crash.

Also accompanying with the software are updates for the following:

- A slight hesitation at low speeds that can be experienced in certain driving conditions. This update improves the low speed engine and transmission response.
- Malfunction indicator light illuminated with DTC P0128 - Coolant Thermostat - Coolant Temp Below Thermostat Regulating Temperature.

Applicable Vehicles: Certain 2016 Tucson (TL) with 1.6L engine 7DCT Transmission

GDS Information: System Selection: **DCT**

Event #	Description
413*	TL 1.6T 7DCT CONTROL LOGIC IMPROVEMENT(ECM 1 of 2)
414*	TL 1.6T 7DCT CONTROL LOGIC IMPROVEMENT(TCM 2 of 2)

(*or use a later available event as listed in the GDS ECU Update screen if one is available.)

NOTICE

Both the ECM and TCM update events must be performed.

Warranty Information:

Model	Op Code	Operation	Op Time
Tucson (TL)	61C077R1	ECM & TCM UPDATE	0.5 M/H

NOTE: Submit claims on Campaign Claim Entry Screen.

NOTICE

You must initially perform GDS ECM and TCM Update in Auto Mode.

- If the ECM or TCM Update starts but then fails in Auto Mode, perform the update in Manual Mode to recover.
- Refer to the General Instructions found in TSB: 15-GI-001 (GDS Mobile) and 15-GI-002 (PC GDS).

ECM ROM ID Table:

Model	IMMO	ECM P/N	CAL ID	
			OLD	NEW
1.6L SPORT/LIMITED FWD	Yes (SSB)	39175-2BTA0 39175-2BTA5	GTTL-FNU6FS00H00 GTTL-FNU6FS01H00 GTTL-FNU6FS02H00 GTTL-FNU6FS03H00 GTTL-HNU6FS00H01	GTTL-HNU6FS01H01
1.6L ECO FWD	No (Key Start)	39177-2BTA0 39177-2BTA5	GTTL-FNU6ES00H00 GTTL-FNU6ES01H00 GTTL-FNU6ES02H00 GTTL-FNU6ES03H00 GTTL-HNU6ES00H01	GTTL-HNU6ES01H01
1.6L SPORT/LIMITED AWD	Yes (SSB)	39175-2BTA2 39175-2BTA6	GTTL-FNU6FS00J00 GTTL-FNU6FS01J00 GTTL-FNU6FS02J00 GTTL-FNU6FS03J00 GTTL-HNU6FS00J01	GTTL-HNU6FS01J01
1.6L ECO AWD	No (Key Start)	39177-2BTA2 39177-2BTA6	GTTL-FNU6ES00J00 GTTL-FNU6ES01J00 GTTL-FNU6ES02J00 GTTL-FNU6ES03J00 GTTL-HNU6ES00J01	GTTL-HNU6ES01J01

TCM ROM ID Table:

Model	TCM P/N	CAL ID	
		OLD	NEW
Tucson (TL)	95440-2D720	DTL0T16NS0 DTL0T16NS1 DTL0T16NS2 DTL0T16NS3 DTL0T16NS4 DTL0T16NS5 DTL0T16NS6 DTL0T16NS7	DTL0T16NS8

ECM Manual Mode Password Information Table:

Menu	Vehicle Type	Password
TL 1.6T-GDI 39177-2BTA0/5 (Key Start)	1.6L ECO FWD	7725
TL 1.6T-GDI 39177-2BTA2/6 (Key Start)	1.6L ECO AWD	7726
TL 1.6T-GDI 39175-2BTA0/5 (SSB)	1.6L Sport/Limited FWD	7525
TL 1.6T-GDI 39175-2BTA2/6 (SSB)	1.6L Sport/Limited AWD	7526

TCM Manual Mode Password Information Table:

Menu	Password
TL 1.6T-GDI TCU(DCT) 95440-2D720	2720

Service Procedure:

1. Perform service procedure outlined in this TSB.
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.