



# HYUNDAI

## Technical Service Bulletin

GROUP <b>AUTOMATIC TRANSMISSION</b>	NUMBER <b>22-AT-011H</b>
DATE <b>OCTOBER 2022</b>	MODEL(S) <b>VELOSTER N (JSN) SANTA FE (TMA PE) SONATA (DN8a) SANTA CRUZ (NXT) KONA N (OSN) ELANTRA N (CN7N)</b>

**SUBJECT:** 8-SPEED WET DCT REPLACEMENT INSTRUCTIONS

**Description:** This bulletin outlines changes to the service manual regarding the replacement of 8-speed dual clutch transmissions (DCT) and associated transmission control module (TCM). Additional steps, not in the service manual, are required within GDS prior to replacing the DCT/TCM, otherwise drivability concerns and/or DTCs may occur.

**Applicable Vehicles:**

2021MY ~ Veloster N (JSN) 2.0T	2022MY ~ Santa Cruz (NXT) 2.5T
2021MY ~ Santa Fe (TMA) 2.5T (VINs beginning with "5NM")	2022MY ~ Kona N (OSN) 2.0T
2021MY ~ Sonata (DN8a) 2.5T N-Line Trim (VINs starting with "5NP")	2022MY ~ Elantra N (CN7N) 2.0T

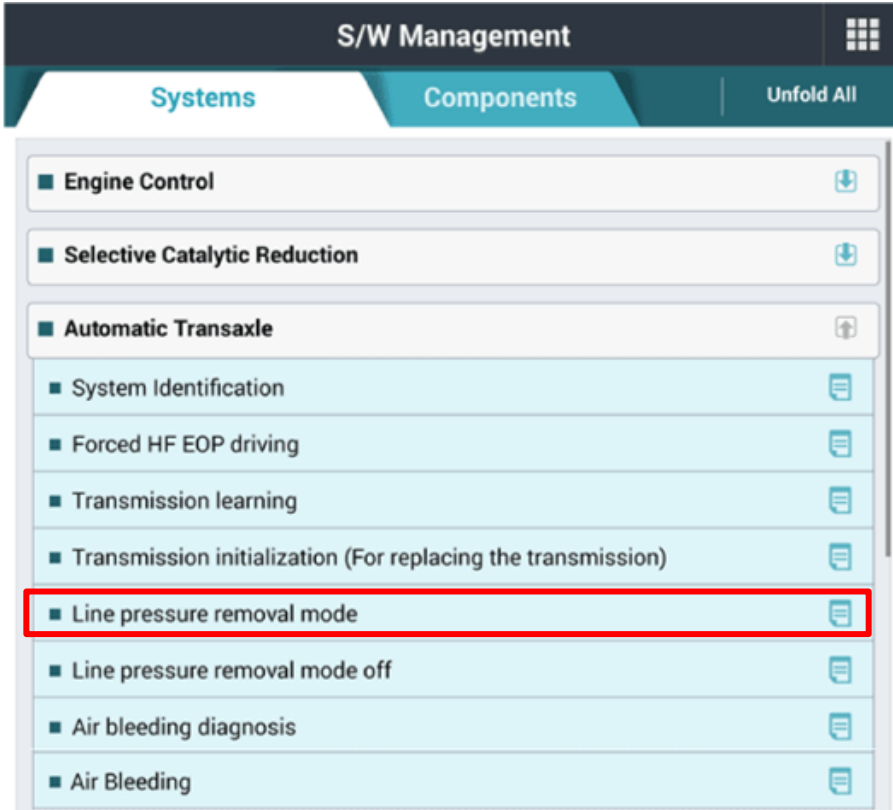
**Parts Information:**

MODEL	ENGINE	TYPE		T/M ASSY NO.	REMANUFACTURED PART	REMARK
Veloster N (JSN)	Theta 2.0T	SBC	2WD + ELSD	430F0-2N031	N/A	with TCU
				43000-2N002	43000-2N002RM	without TCU
Santa Fe (TMA)	Theta 2.5T	SBW	2WD	430F0-2N085	N/A	with TCU
				43000-2N034	43000-2N034RM	without TCU
			4WD	430F0-2N086	N/A	with TCU
				43000-2N035	43000-2N035RM	without TCU
Sonata (DN8a) with N Line Trim	Theta 2.5T	SBW	2WD	430F0-2N034	N/A	with TCU
				43000-2N050	43000-2N050RM	without TCU
Santa Cruz (NXT)	Theta 2.5T	SBC	4WD	430F0-2N081	N/A	with TCU
				43000-2N022	43000-2N022RM	without TCU
Kona N (OSN)	Theta 2.0T	SBC	2WD + ELSD	430F0-2N061	N/A	with TCU
				43000-2N060	43000-2N060RM	without TCU
Elantra N (CN7N)	Theta 2.0T	SBC	2WD + ELSD	430F0-2N071	N/A	with TCU
				43000-2N070	43000-2N070RM	without TCU

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

**DCT/TCM Replacement Procedure:**

1. Prior to replacing a DCT/TCM, it is necessary to to perform the “Line Pressure Removal” mode in GDS.



**NOTICE**

If the “Line pressure removal mode” is not performed, drivability concerns and warning lights/DTCs can occur (P193B79, P0868, rattling/shift shock, unable to drive forward/reverse).

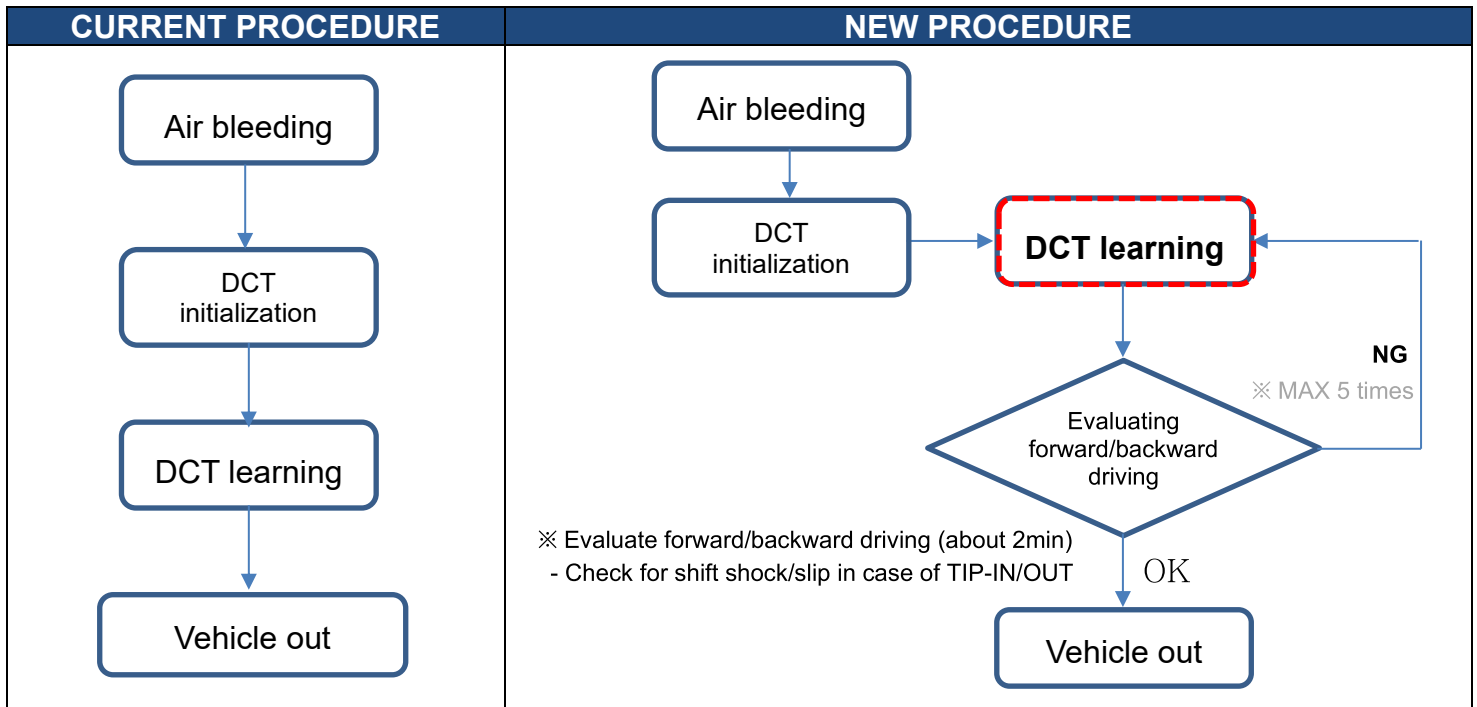
2. Continue removal of the DCT/TCM according to the vehicle shop manual.

**NOTICE**

See instructions on page 3 regarding TCM removal/installation.

3. After replacing the DCT/TCM, perform the air bleeding/DCT initialization/DCT Learning according to the flow chart on page 3. See the table below regarding if DCT learning is required.

DCT TYPE	TCM INCLUDED?	DCT LEARNING REQUIRED?
DCT (NEW)	YES	NO, not required
	NO	YES, required
DCT (Remanufactured)	YES	
	NO	

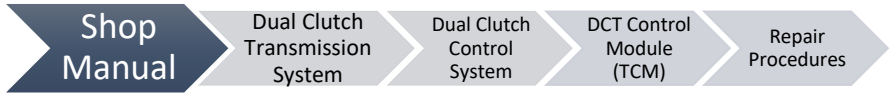


**NOTICE**

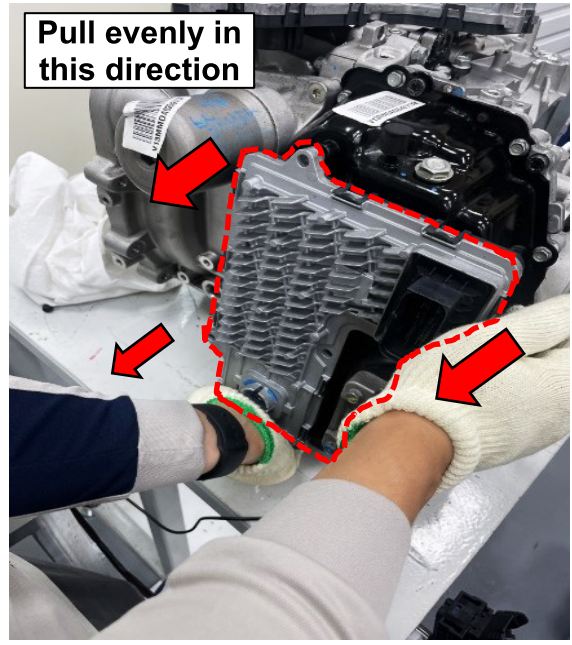
When receiving a new or remanufactured DCT assembly, it may not include a TCM (refer to the table on page 1). In this case, it may be required to transfer the TCM from the old DCT unit to the new part. Follow the instructions below regarding the transfer of the TCM.

**TCM Removal/Installation Procedure:**

1. Remove the DCT TCM according to the vehicle shop manual.



**CAUTION**  
Make sure the TCU 24-pin terminal is aligned properly during removal/installation, otherwise the pins may get damaged.



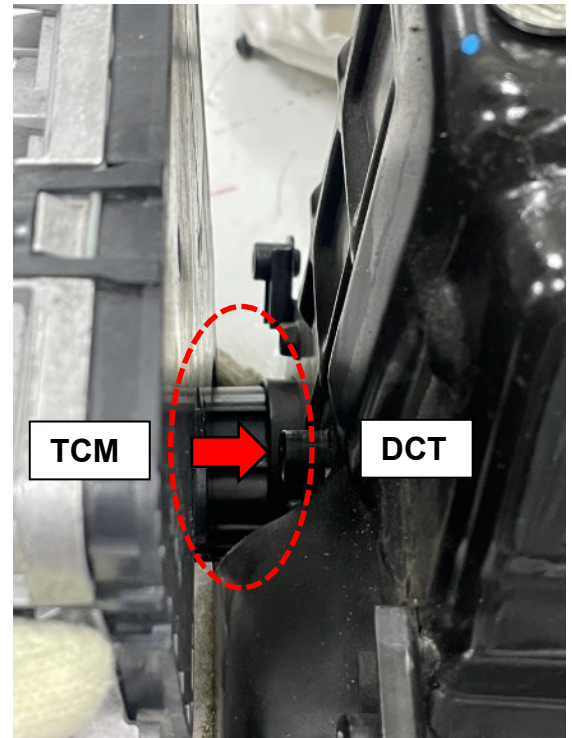
2. When reinstalling the TCM, make sure to align the connector on the TCM to the E-module on the DCT.



**Male terminal of TCM**



**Female terminal of E-module (on DCT)**



3. Finish reinstalling the TCM according to the vehicle shop manual.