HYUNDAI NEW THINKING. NEW POSSIBILITIES.	GROUP	NUMBER
Technical Service Bulletin	**DUAL-CLUTCH TRANSMISSION**	**13-AT-003**
	DATE	MODEL
	FEBRUARY 2013	**VELOSTER (FS)**

SUBJECT: DUAL CLUTCH TRANSMISSION LEARNING

This TSB supersedes TSB 11-AT-018-1 to modify the procedure (Step 3).

Description: This TSB provides instructions to perform Dual Clutch Transmission (DCT) learning to ensure accurate control by the TCM and decrease the learning time for the TCM.

This procedure includes three steps to compensate for production tolerances in the dual-clutch transmission.

1. Gear box geometry learning
2. Clutch characteristic learning
3. Shifting position learning

Perform this learning after replacing the DCT, clutch actuator motor, gear actuator assembly, input sensor or TCM.

Applicable Vehicles: Model Year 2012~ Veloster equipped with dual-clutch transmission.

WARRANTY INFORMATION: Normal warranty applies.

SERVICE PROCEDURE:

1. Park the vehicle on flat ground, shift into Park and turn off the engine.

   Turn the ignition key to the ON position or press the Start-Stop Button two times without depressing the brake pedal.

   Set the parking brake and depress the foot brake.

   ★ NOTE

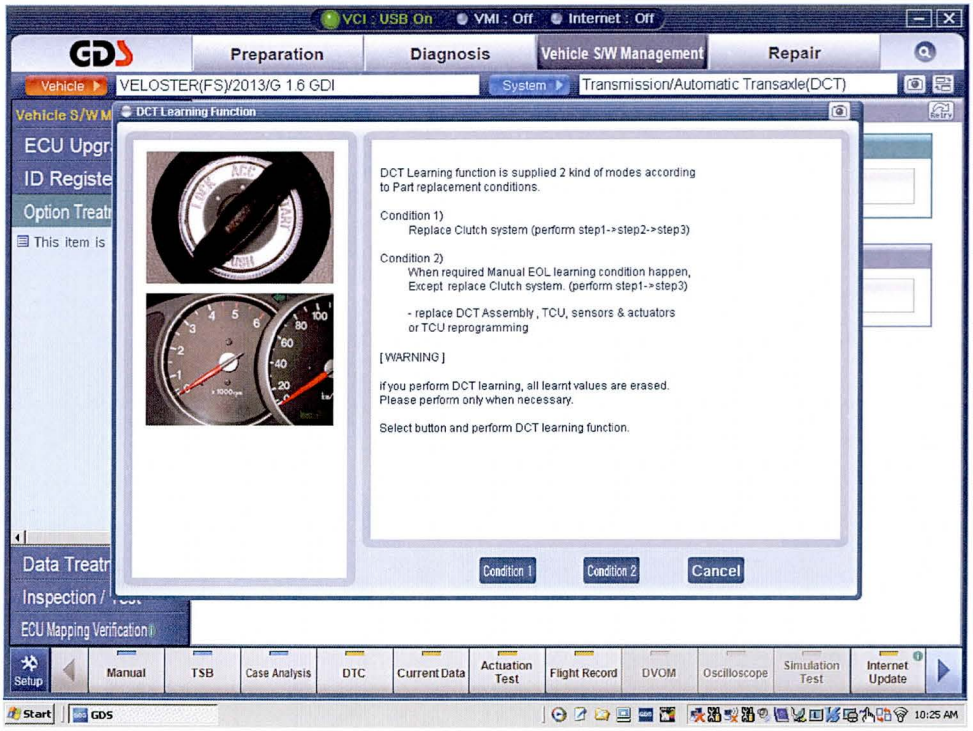
   The foot brake must remain depressed during the entire procedure.

2. Attach a GDS and select vehicle, A/T menu, **DCT**, **Data Treatment** and **DCT Learning Function**. Follow the prompts on the screen.

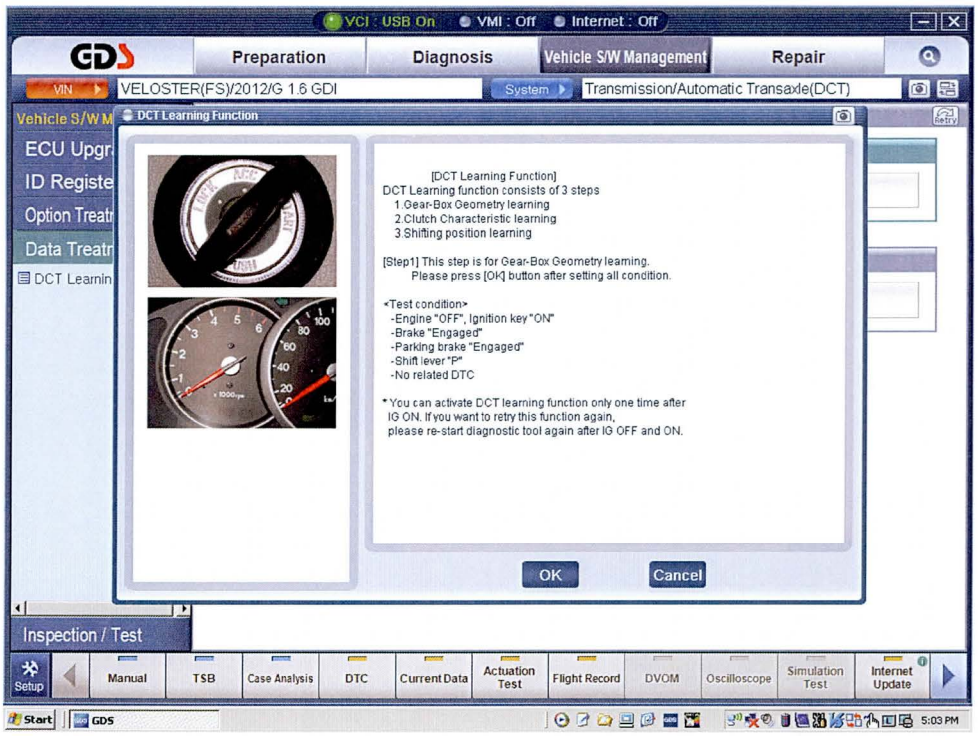
   ★ NOTE

   If the procedure fails, the PRNDL indicator will display "E", P17C0 (DCT none-EOL) may be set in the A/T menu and the DCT will not shift. If so, turn the ignition OFF for 30 seconds and then turn ON. Close and restart the GDS and erase any DTC. Go to Step 3.

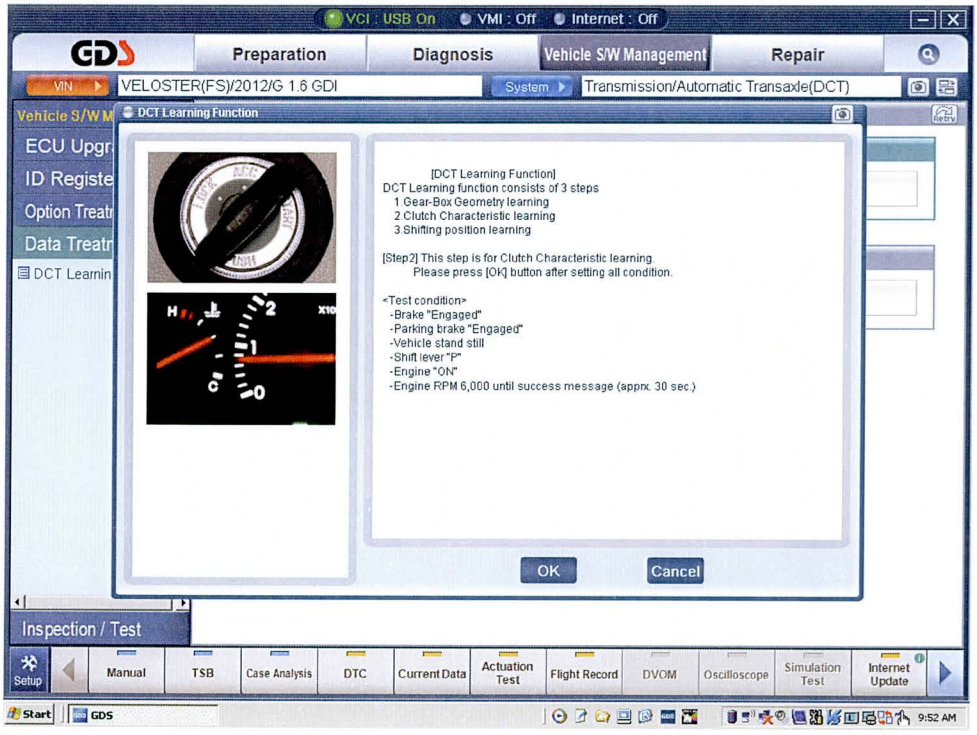
3. Choose the correct test:
   - Condition 1: After installing a new clutch assembly (not currently available)-Do not select.
   - Condition 2:
     - After installing a new DCT
     - After installing a new TCM
     - After installing a new clutch actuator motor, gear actuator assembly or input sensor



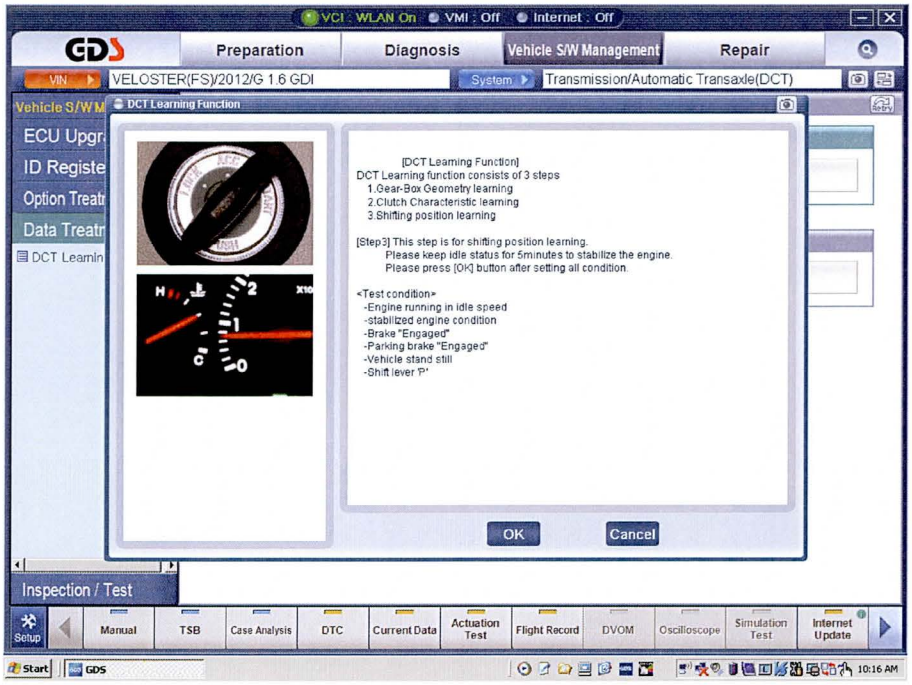
4. Step 1: Gear box geometry learning. Follow the prompts.



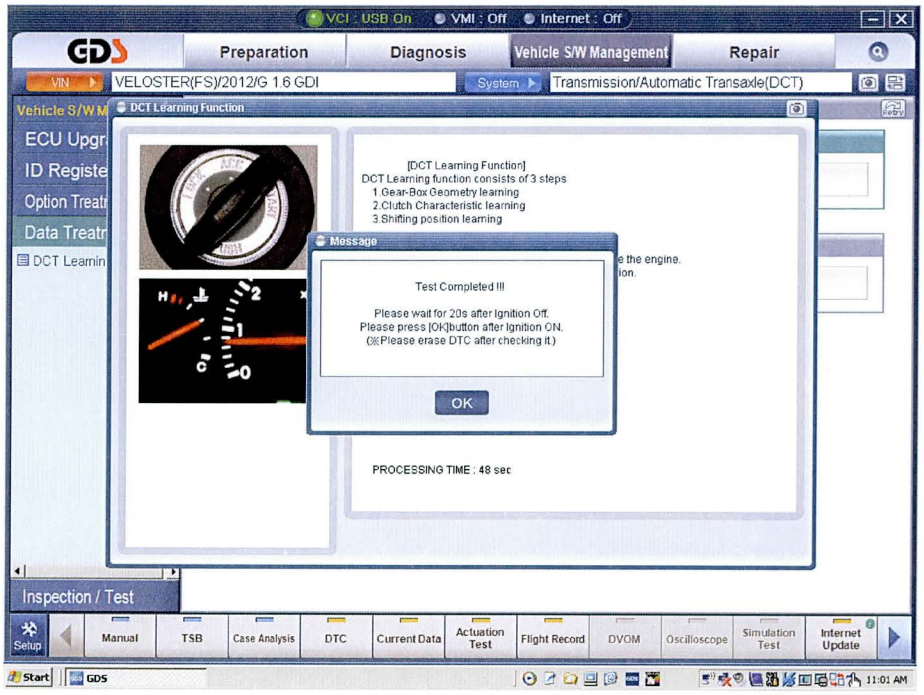
5. Step 2: Clutch characteristic learning.
Start the engine, raise the engine speed to about 6,000 rpm and **immediately** select **OK**.



6. Step 3: Shifting position learning.
   Reduce the engine speed to idle and select **OK**.



7. Turn the ignition off for 20 seconds. Turn the ignition on and select **OK.**



8. Check for DTC in the ABS/ESC and EPS menus and erase all DTC.

9. Drive the vehicle to confirm the proper operation of the DCT.