Hyundai Kona: Dual Clutch Transmission Control System / DCT Control Module (TCM) Repair procedures

Inspection

Transmission Control Module (TCM) Inspection Procedure

1. Inspecting TCM ground circuit: Measure the resistance between the TCM and chiassis ground.
   (Check the terminal connected to the chassis ground while using the back of the harness connector as the base point for TCM.)
   Normal reading (resistance) : Below 1Ω
2. Inspecting the TCM connector: Disconnect the TCM connector and visually inspect to see whether there is a bend on the ground terminal of the harness connector. Also visually check the connection pressure.
3. If no problem is found during inspection in step 1 and step 2, then the problem is with the TCM itself. In this case, replace the TCM and inspect the vehicle again.
4. Re-inspecting TCM: Install the TCM that was determined to have malfunctioned from step 3 in another vehicle. Reset the error code and then check the operation in that vehicle. If the vehicle operates without any problems, then inspect the first vehicle with the initial problem again.

Removal

1. Turn ignition switch OFF and disconnect the battery negative (-) terminal.
2. Disconnect the TCM connector (A).
3. Remove the TCM from the vehicle after removing the mounting nut (B-3ea).
   Tightening torque :
   9.8 - 11.7 N.m (1.0 - 1.2 kgf.m, 7.2 - 8.6 lb.ft)

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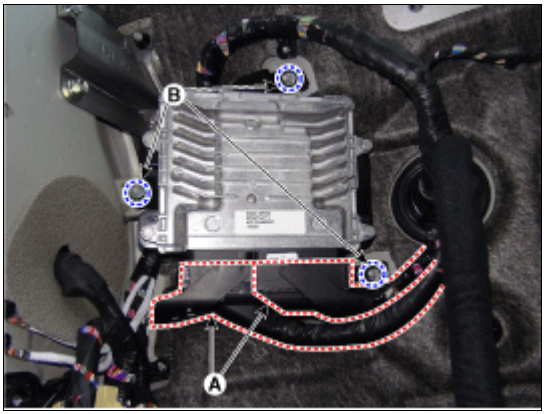
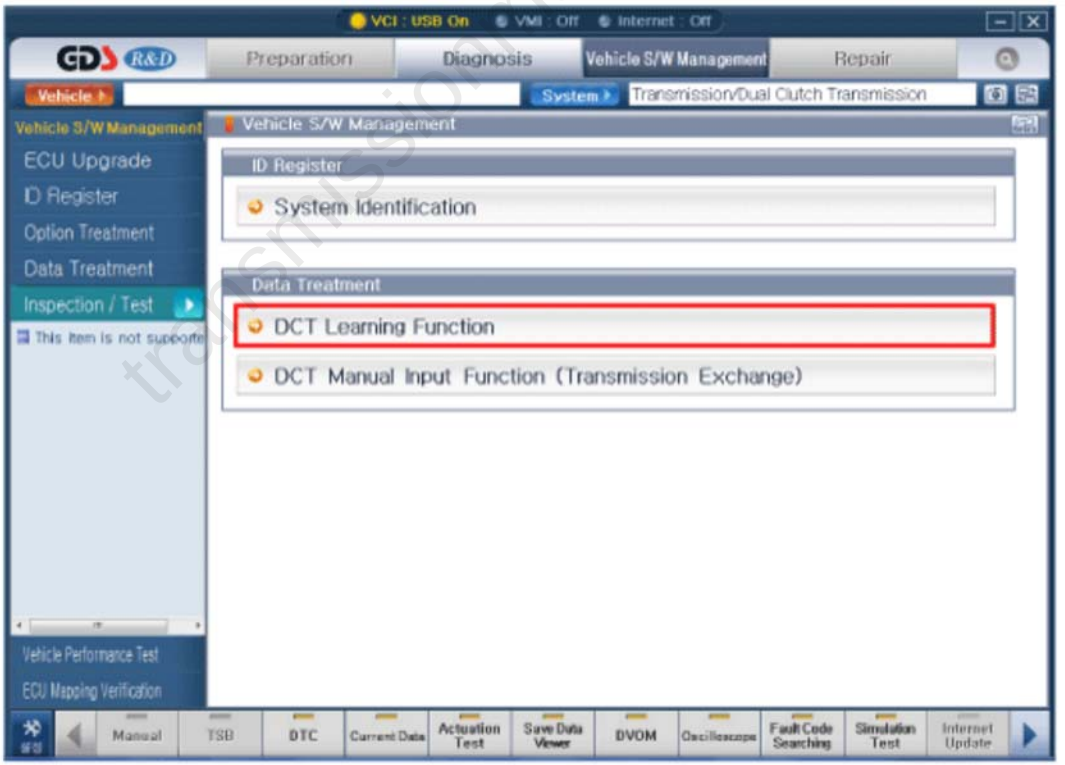


Installation

1. To install, reverse the removal procedure.

NOTICE

- Perform the clutch touch point learning procedure using the GDS after replacing TCM.



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