INSPECTION

TCM Problem Inspection Procedure

1. TEST TCM GROUND CIRCUIT: Measure resistance between TCM and chassis ground using the backside of TCM harness connector as TCM side check point. If the problem is found, repair it.

   Specification: below 1Ω

2. TEST TCM CONNECTOR: Disconnect the TCM connector and visually check the ground terminals on TCM side and harness side for bent pins or poor contact pressure. If the problem is found, repair it.

3. If problem is not found in Step 1 and 2, the TCM could be faulty. If so, replace the TCM with a new one, and then check the vehicle again. If the vehicle operates normally then the problem was likely with the TCM.

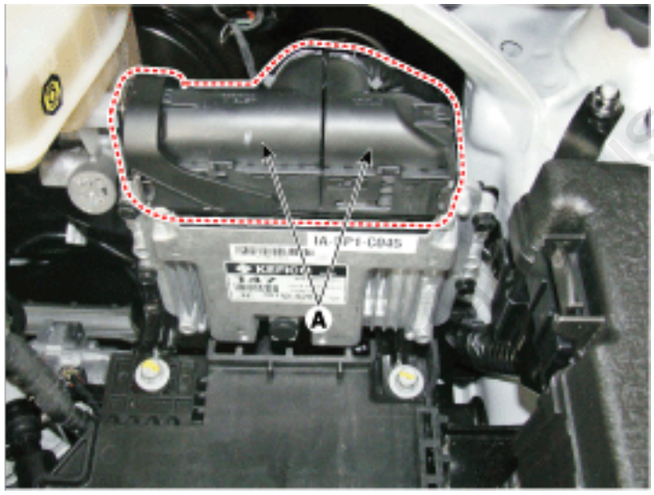
4. RE-TEST THE ORIGINAL TCM : Install the original TCM (may be broken) into a known-good vehicle and check the vehicle. If the problem occurs again, replace the original TCM with a new one. If problem does not occur, this is intermittent problem (Refer to Intermittent Problem Procedure in Basic Inspection Procedure)

REMOVAL

1. Turn ignition switch OFF and disconnect the negative (-) battery cable.

2. Remove the battery.
   (Refer to Engine Electrical System - "Battery")

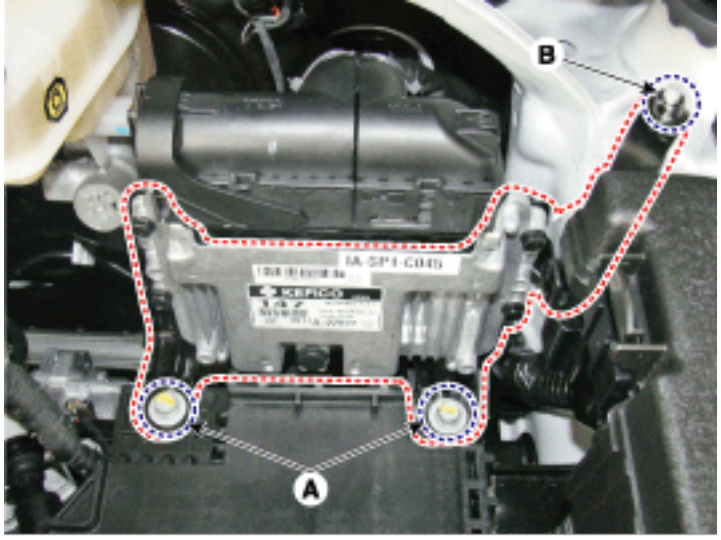
3. Disconnect the TCM Connector (A).



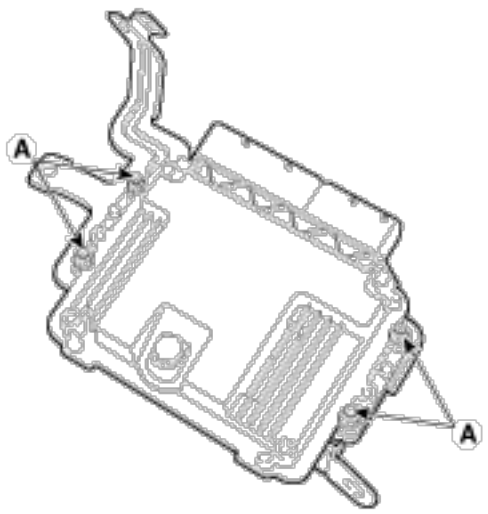
4. Remove the TCM bracket installation bolts (A) and the nut (B).

   Tightening torque:
   9.8 ~ 11.8 N.m (1.0 ~ 1.2 kgf.m, 7.2 ~ 8.7 lb-ft)

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5. Remove the installation nuts (A), and then remove the ECM from the bracket.



INSTALLATION

1. Install in the reverse order of removal.
   - Perform TCM learning after replacing the transaxle to prevent slow transaxle response, jerky acceleration and jerky startup.
     (Refer to Automatic Transaxle Control System - "Repair procedures")
   - Perform "Key teaching" procedure with GDS.
     (Refer to Body Electrical System - "Immobilizer System")

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