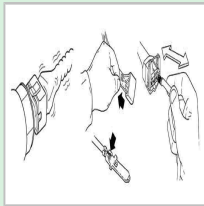




Terminal and Connector Inspection

1. Electrical systems consist of a lot of harness and connectors, poor connection of terminals can cause various problems and damage of component.
2. Perform checking procedure as follows.
 - (1) Check damage of harness and terminals : Check terminals for contact resistance, corrosion and deformation.
 - (2) Check connecting condition of ECM and component connector : Check terminal separation, damage of locking device and connecting condition between terminal and wiring.

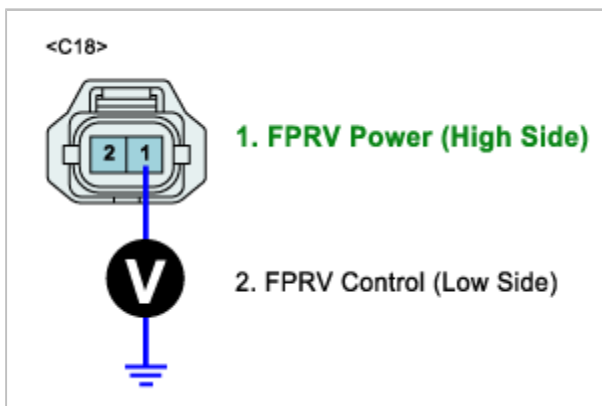
Disconnect the pin which requires checking at male connector and insert it to the terminal at female connector for checking connecting condition. (after checking, reconnect the pin at correct position.)



3. Is the problem found?
 - ☐ YES
 - a. Repair the trouble causing part and go to "Verification of Vehicle Repair".
 - ☐ NO
 - a. Go to "Power Circuit Inspection".

Power Supply Circuit Inspection

1. IG KEY "OFF", ENGINE "OFF"
2. Disconnect FPRV connector.
3. IG KEY "ON"
4. Measure the voltage of FPRV connector terminal 1.
 - 1) Specification : 11.5V~13.0V



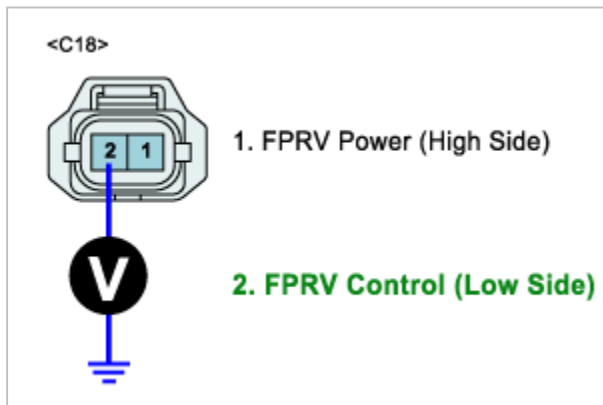
5. Is the measured voltage within the specification?
 - ☐ YES
 - a. Go to "Control Circuit Inspection".
 - ☐ NO



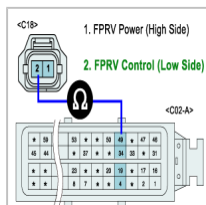
- a. Repair open between FPRV connector terminal 1 and ECM connector terminal 19 and go to "Verification of Vehicle Repair".

Control Circuit Inspection

1. Check monitoring voltage in control circuit
 - (1) IG KEY "OFF", ENGINE "OFF".
 - (2) Disconnect FPRV connector.
 - (3) IG KEY "ON".
 - (4) Measure the voltage of FPRV connector terminal 2.
 - 1) Specification : 3.2V~3.7V



- (5) Is the measured voltage within the specification?
 - ☐ YES
 - a. Go to "Component Inspection"
 - ☐ NO
 - a. When voltage is not detected : Go to "2. Check open in control circuit" as follows.
 - b. When high voltage is detected : Repair short to battery and go to "Verification of Vehicle Repair".
2. Check open in control circuit
 - (1) IG KEY "OFF", ENGINE "OFF".
 - (2) Disconnect FPRV and ECM connector.
 - (3) Check continuity between FPRV connector terminal 2 and ECM connector terminal 49.
 - 1) Specification : Continuity (below 1.0Ω)



- (4) Is the measured resistance within the specification?
 - ☐ YES
 - a. Repair short to ground in FPRV control circuit and go to "Verification of Vehicle Repair".
 - ☐ NO
 - a. Repair open in FPRV control circuit and go to "Verification of Vehicle Repair".