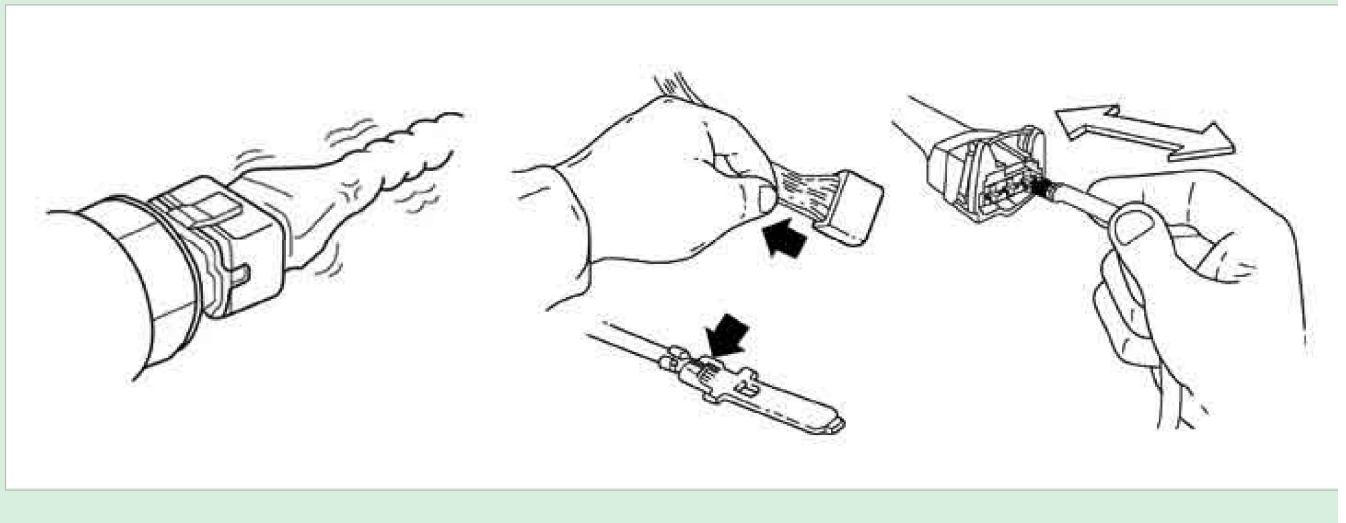


### Terminal and Connector Inspection

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?

**i** YES

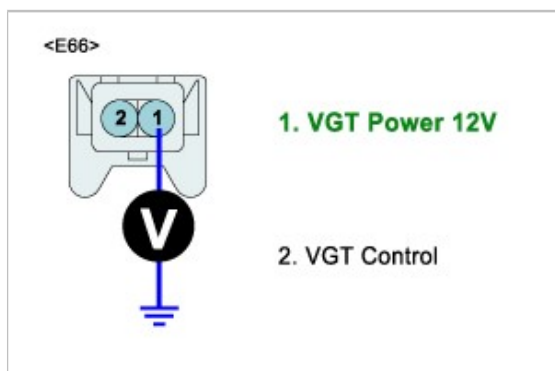
1) Repair the trouble causing part and go to "Verification of Vehicle Repair".

**i** NO

1) Go to "Power Circuit Inspection".

### Power Supply Circuit Inspection

1. Check power circuit voltage
  - (1) IG KEY "OFF", ENGINE "OFF".
  - (2) Disconnect VGT actuator connector
  - (3) IG KEY "ON"
  - (4) Measure the voltage of terminal 1 of VGT actuator .
    - A. Specification : 11.5V~13.0V



(5) Is the measured voltage within the specification ?

**i** YES

1) Go to "Control Circuit Inspection".

**i** NO

1) Repair E/R JUNCTION BOX 10A SNSR. 3 FUSE and related circuit and go to "Verification of Vehicle Repair".

### Control Circuit Inspection

1. Check monitoring voltage in control circuit

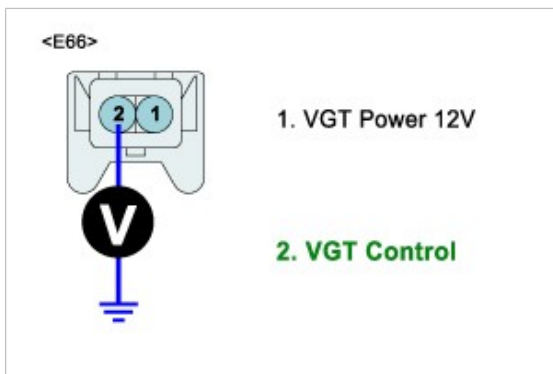
(1) IG KEY "OFF", ENGINE "OFF".

(2) Disconnect VGT actuator connector .

(3) IG KEY "ON".

(4) Measure the voltage of terminal 2 of VGT actuator .

A. Specification : 3.2V~3.7V



(5) Is the measured voltage within the specification ?

**i** YES

1) Go to "Component Inspection".

**i** NO

1) When voltage is not detected : Go to "2. Check open in control circuit" as follows .

2) When high voltage is detected : Repair short to battery and go to "Verification of Vehicle Repair".

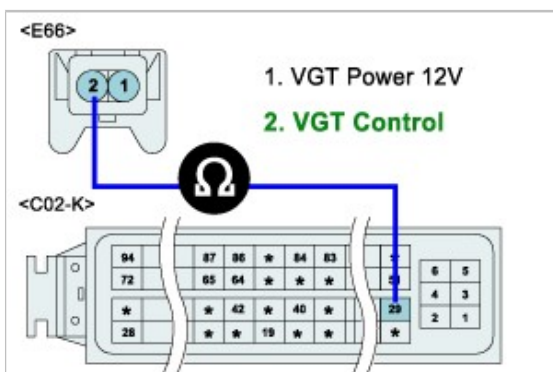
2. Check open in control circuit

(1) IG KEY "OFF", ENGINE "OFF".

(2) Disconnect VGT actuator connector and ECM connector .

(3) Check continuity between VGT actuator connector terminal 2 and ECM connector terminal 29.

A. Specification : Continuity (below 1.0Ω )



(4) Is the measured resistance within the specification ?

**i** YES



2009 > D2.5 VGT > EngineEngineControl > P0047 Turbo/Super Charger Boost Control Solenoid Circuit Low > Inspeção/Reparação > Inspeção de Cabelagem

1) Repair short to ground and go to "Verification of Vehicle Repair".

**I** NO

1) Repair open in control circuit and go to "Verification of Vehicle Repair".