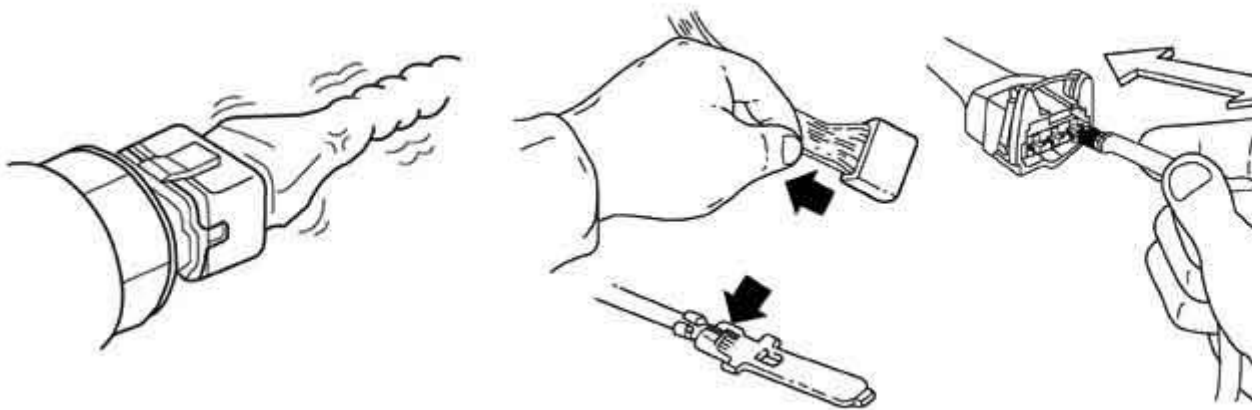


Terminal and Connector Inspection

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.

NOTICE

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

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

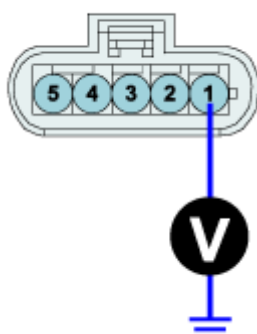
NO

⇒ Go to "Power Circuit Inspection".

Power Supply Circuit Inspection

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

<E03>



1. IG1 Power

2. IATS Ground

3. IATS Signal #1

4. MAFS Feed back Signal

5. MAFS Signal

5. Is the measured voltage within the specification?

i YES

⇒ Go to "Signal Circuit Inspection".

i NO

⇒ Repair open in I/P junction box 10A PCU FUSE and related circuit and go to "Verification of Vehicle Repair".

Signal Circuit Inspection

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

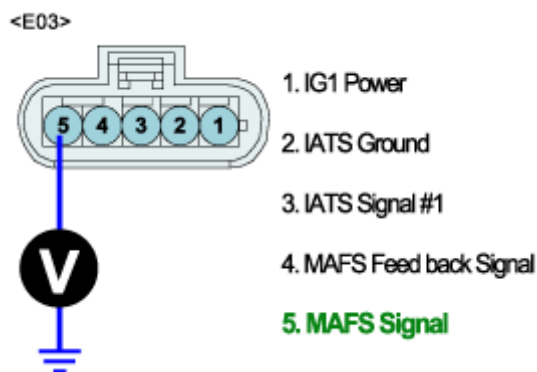
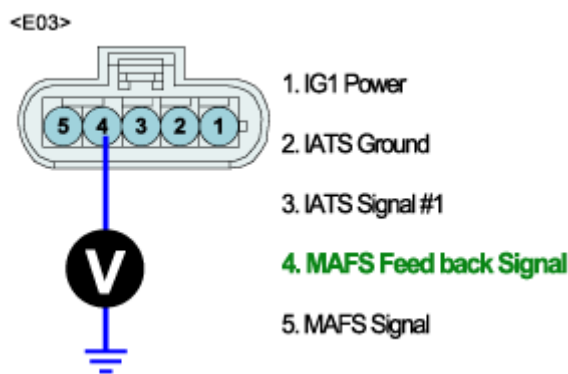
2. Disconnect MAFS connector.

3. IG KEY "ON"

4. Measure the voltage of MAFS connector terminal 4.

5. Measure the voltage of MAFS connector terminal 5.

⇒ Specification : 4.8V~5.1V



6. Is the measured voltage within the specification?

i YES

⇒ Go to "Ground Circuit Inspection".

i NO

⇒ Repair short to battery in signal circuit and go to "Verification of Vehicle Repair".

Ground Circuit inspection

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

2. Disconnect MAFS connector.

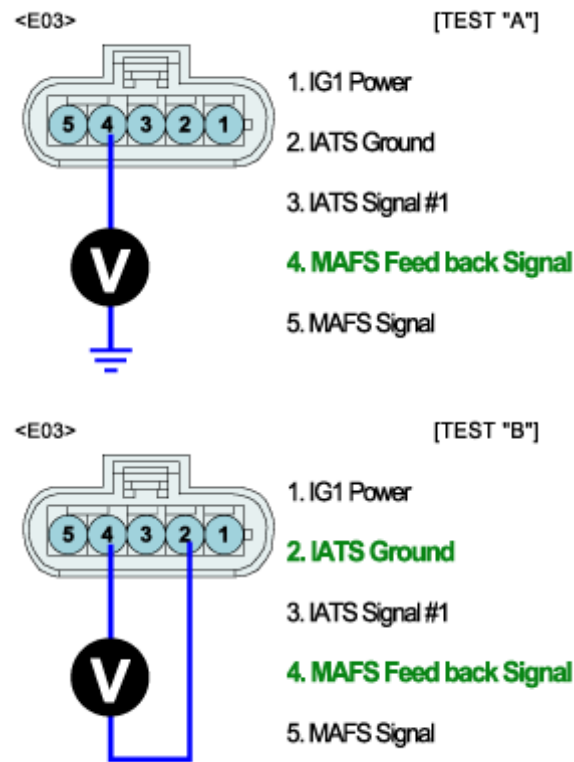
3. IG KEY "ON"

4. Measure the voltage of MAFS connector terminal 4.[TEST "A"]

5. Measure the voltage between MAFS connector terminal 4 and 2.[TEST "B"]

(terminal 4 : Check + prove , terminal 2 : Check - prove)

⇒ Specification : [TEST "A"] Voltage - [TEST "B"] Voltage = below 200mV



6. Is the measured voltage within the specification?

i YES

⇒ Go to "Component Inspection".

i NO

⇒ When "B" voltage is not detected : Repair open in ground circuit and go to "Verification of Vehicle Repair".

⇒ When the voltage difference between "A" and "B" is above 200mV : Eliminate the causes of excessive resistance and go to "Verification of Vehicle Repair".