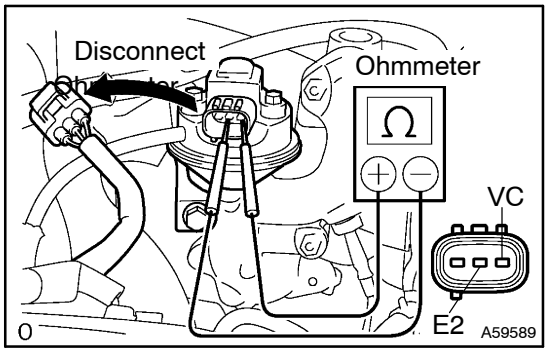
EGR SYSTEM (1MZ–FE)

ON–VEHICLE INSPECTION

12037–01



1. INSPECT EGR VALVE POSITION SENSOR

(a) Inspect the resistance of the EGR valve position sensor.

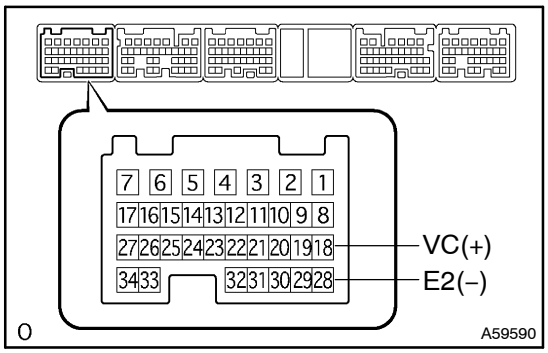
(1) Disconnect the EGR valve position sensor connector.

(2) Using an ohmmeter, measure the resistance between the terminals VC and E2.

Resistance: 1.5 – 4.3 kΩ

If the resistance is not as specified, replace the EGR valve position sensor.

(3) Reconnect the EGR valve position sensor connector.



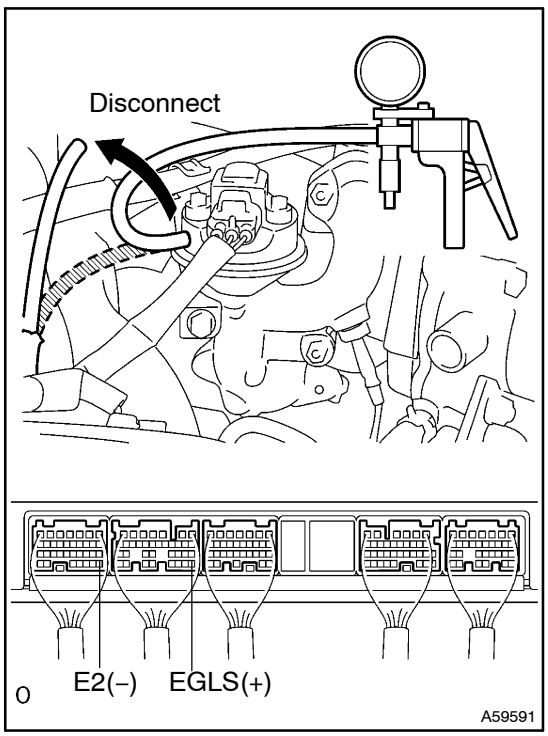
(b) Inspect the power output voltage of the EGR valve position sensor.

(1) Disconnect the vacuum hose from the EGR valve.

(2) Turn the ignition switch ON.

(3) Connect a voltmeter to terminals VC and E2 of the ECM, and measure the power source voltage.

Voltage: 4.5 – 5.5 V



(4) Connect a voltmeter to terminals EGLS and E2 of the ECM, and measure the power outlet voltage under the following conditions.

- Using the MITYVAC (Hand–Held Vacuum Pump), apply a vacuum (17.3 kPa, 130mmHg, 5.1 in.Hg) to the EGR valve.

Voltage: 3.2 – 5.1 V

- Release the vacuum from the EGR valve.

Voltage: 0.4 – 1.6 V

If the voltage is not as specified, replace the EGR valve position sensor.

(5) Reconnect the vacuum hose to the EGR valve.