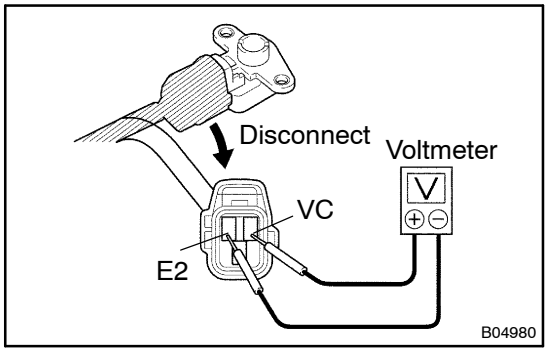
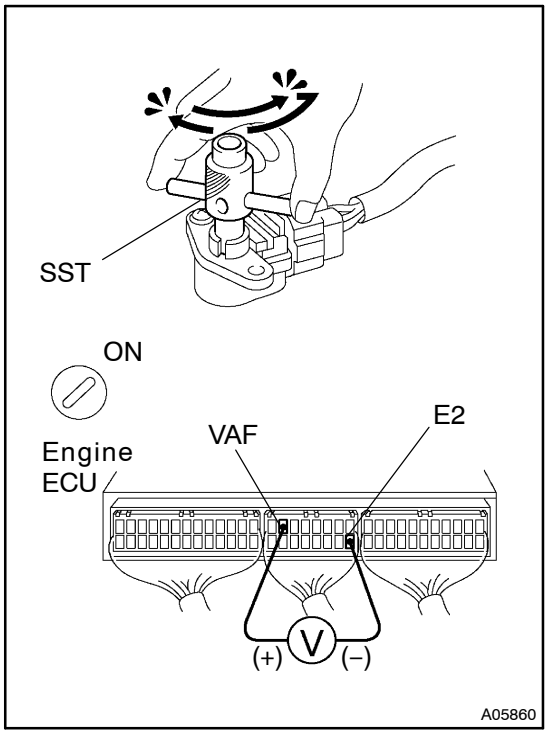
FI0RG–01

INSPECTION



1. INSPECT POWER SOURCE VOLTAGE OF VARIABLE RESISTOR

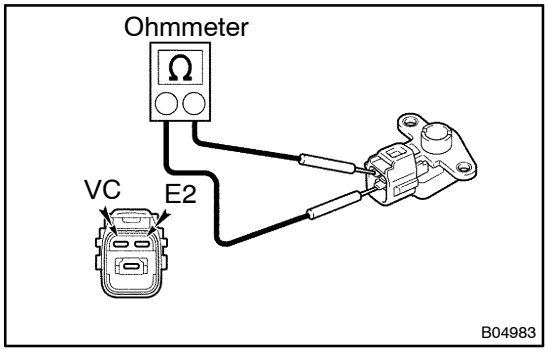
(a) Disconnect the variable resistor connector.
(b) Turn the ignition switch ON.
(c) Using a voltmeter, measure the voltage between connector terminals VC and E2 of the wiring harness side.
Voltage: 4.5 – 5.5 V
(d) Reconnect the variable resistor connector.



2. INSPECT POWER OUTPUT OF VARIABLE RESISTOR

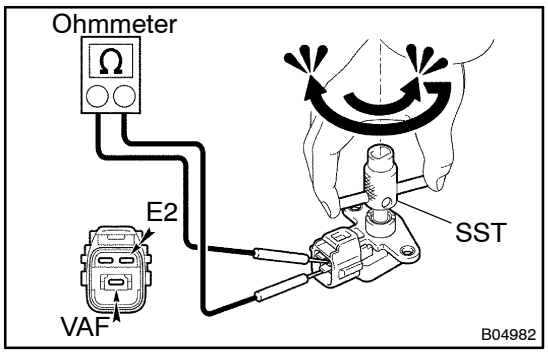
(a) Turn the ignition switch ON.
(b) Connect a voltmeter to terminals VAF and E2 of the engine ECU, and measure the voltage while slowly turning the idle mixture adjusting screw first fully counterclockwise, and then fully clockwise using SST.
SST 09243–00020
(c) Check that voltage changes smoothly from 0 V to approx. 5 V.

HINT:
There is no sudden jump up to 5 V or down to 0 V.



3. INSPECT RESISTANCE OF VARIABLE RESISTOR

(a) Disconnect the variable resistor connector.
(b) Using an ohmmeter, measure the resistance between terminals VC and E2 of the variable resistor.
Resistance: 4 – 6 kΩ at 20°C (68°F)



(c) Using SST, turn the idle mixture adjusting screw fully counterclockwise.
SST 09243–00020
(d) Connect an ohmmeter to terminals VAF and E2 of the variable resistor, and turn the idle mixture adjusting screw fully clockwise and check that the resistance value changes from approx. 5 kΩ to 0 Ω accordingly.
(e) Reconnect the variable resistor connector.