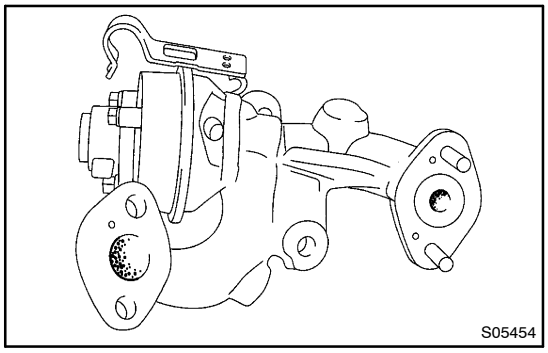
12038–01

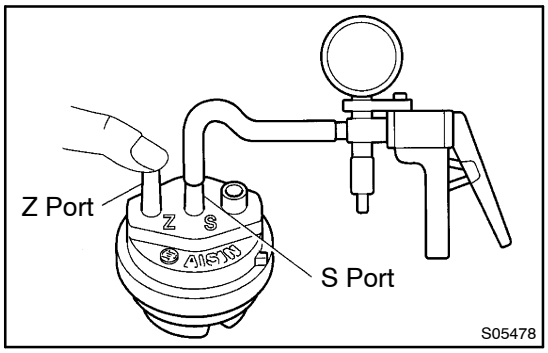
INSPECTION



1. EGR VALVE ASSY

(a) Check for sticking and heavy carbon deposits.

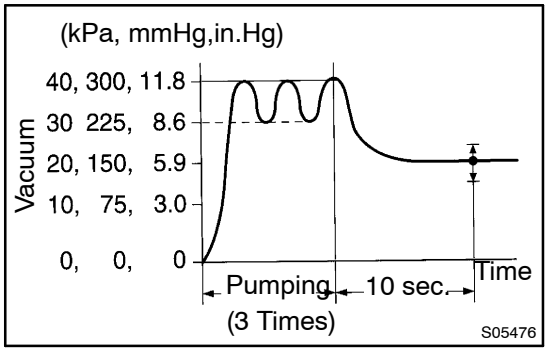
If a problem is found, replace the EGR valve.



2. VACUUM CONTROL VALVE

(a) Connect the MITYVAC (Hand–Held Vacuum Pump) to port S of the VCV.

(b) Plug port Z completely with fingers.



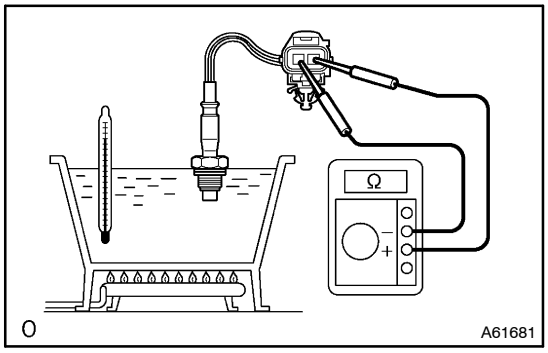
(c) Perform pumping 3 times and apply vacuum as shown in the illustration.

(d) Stop the performing pumping and check the indicated value of the MITYVAC after about 10 seconds.

Standard value:

15 – 24 kPa (112 – 180 mmHg, 4.4 – 7.1 in.Hg)

If the indicated value is not as specified, replace the VCV.



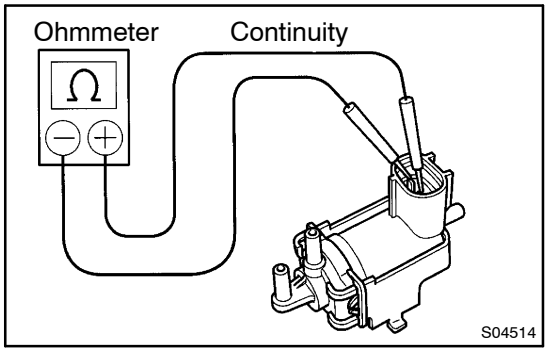
3. E.G.R GAS TEMPERATURE SENSOR

(a) Resistance inspection

(1) using an ohmmeter, measure the resistance between the terminals.

Resistance:

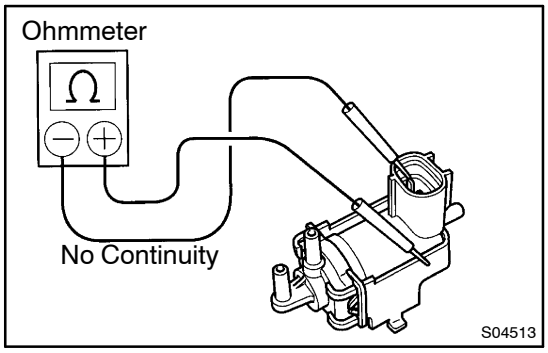
At 50°C (122°F)	69.4 – 88.5 Ω
At 100°C (212°F)	11.89 – 14.37 Ω
At 150°C (302°F)	2.79 – 3.59 Ω



4. VACUUM SWITCHING VALVE NO.1

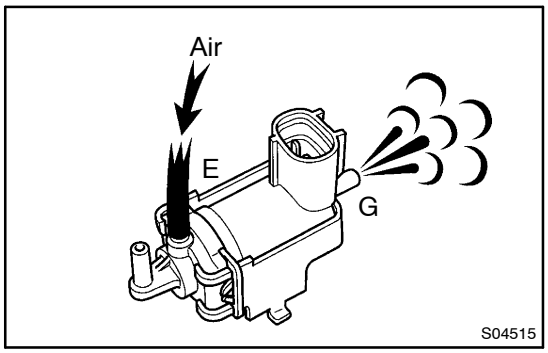
(a) Inspect VSV for open circuit.
(1) Using an ohmmeter, check that there is continuity between the terminals.
Resistance: 27 – 33 Ω at 20°C (68°F)

If there is no continuity, replace the VSV.

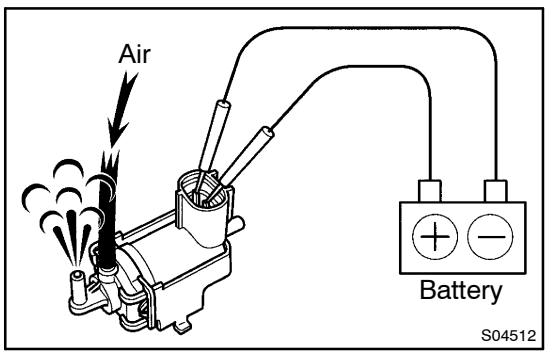


(b) Inspect VSV for ground.
(1) Using an ohmmeter, check that there is no continuity between each terminal and the body.

If there is continuity, replace the VSV.



(c) Inspect VSV operation.
(1) Check that air flows from port E to port G.



(2) Apply battery positive voltage across the terminals.
(3) Check that air flows from port E to port F.

If operation is not as specified, replace the VSV.