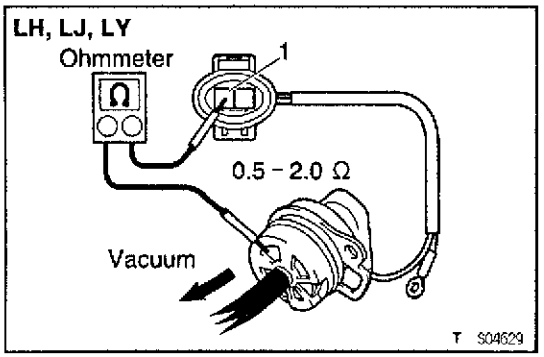


FUEL HEATER SYSTEM

EG7DA-01

COMPONENTS INSPECTION

Fuel Heater (LH, LJ, LY)

1. REMOVE FUEL HEATER FROM FUEL FILTER CAP

2. INSPECT FUEL HEATER

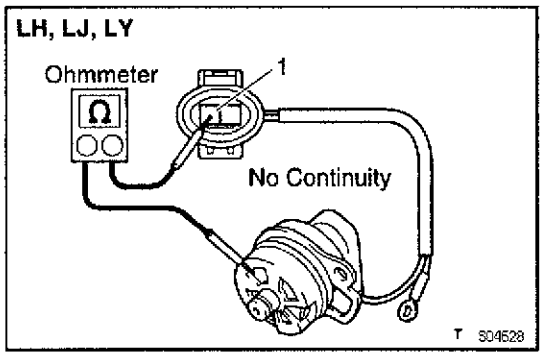
(a) Apply a vacuum of 34.7 ± 5.3 kPa (260 ± 40 mmHg, 10.24 ± 1.57 in.Hg) or more to the vacuum switch port.

(b) Using an ohmmeter, measure the resistance between terminal 1 and the switch body.

Resistance at 20°C (68°F):

0.5 – 2.0 Ω

If the resistance is not as specified, replace the fuel heater and vacuum switch assembly.

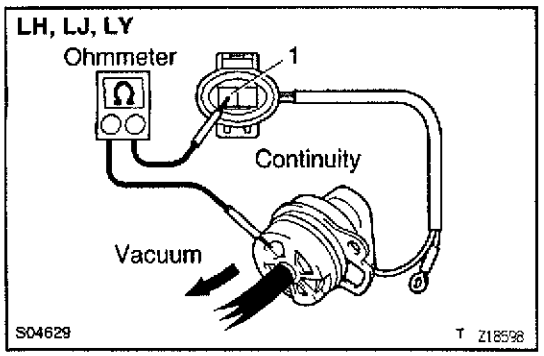


3. INSPECT VACUUM SWITCH

A. Inspect switch continuity

Using an ohmmeter, check that there is no continuity between terminal 1 and the switch body.

If there is continuity, replace the fuel heater and vacuum switch assembly.



B. Inspect switch operation

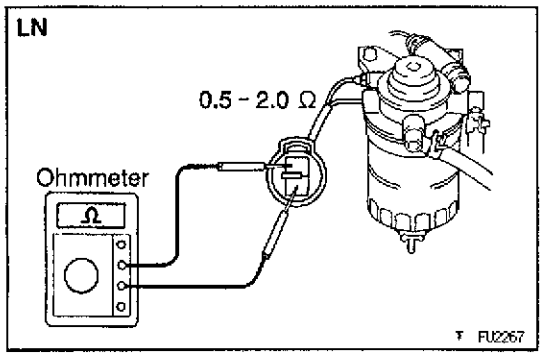
(a) Apply a vacuum of 34.7 ± 5.3 kPa (260 ± 40 mmHg, 10.24 ± 1.57 in.Hg) or more to the vacuum switch port.

(b) Using an ohmmeter, check that there is continuity between terminal 1 and the switch body.

If there is no continuity, replace the fuel heater and vacuum switch assembly.

4. REINSTALL FUEL HEATER TO FUEL FILTER CAP

Torque: 3.19 N·m (32.5 kgf·cm, 28 in.·lbf)



Fuel Heater (LN)

1. DISCONNECT FUEL HEATER CONNECTOR

2. INSPECT FUEL HEATER

(a) Apply a vacuum of 34.7 ± 5.3 kPa (260 ± 40 mmHg, 10.24 ± 1.57 in.Hg) or more to the vacuum switch port.

(b) Using an ohmmeter, measure the resistance between terminal 1 and the switch body.

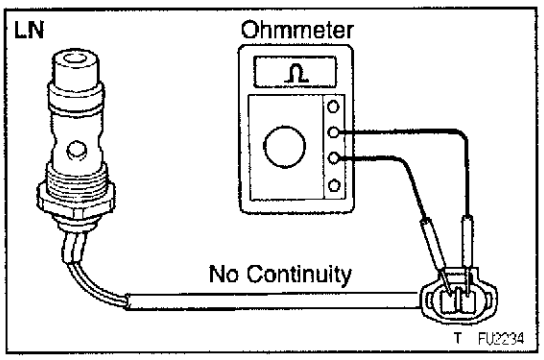
Resistance at 20°C (68°F):

0.5 — 2.0 Ω

If the resistance is not as specified, replace the fuel heater and vacuum switch assembly.

3. **RECONNECT FUEL HEATER CONNECTOR**

EG



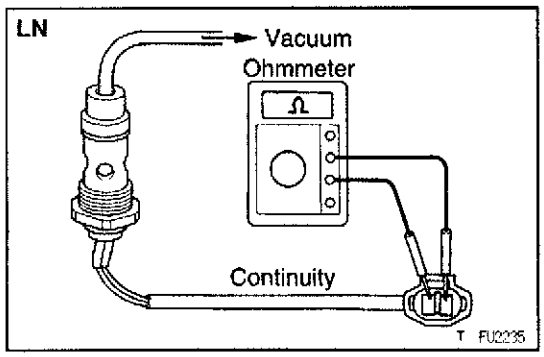
Vacuum Switch (LN)

1. **REMOVE VACUUM SWITCH FROM FUEL FILTER CAP**
2. **INSPECT VACUUM SWITCH**

A. Inspect switch continuity

Using an ohmmeter, check that there is no continuity between terminal 1 and the switch body.

If there is continuity, replace the vacuum switch.



B. Inspect switch operation

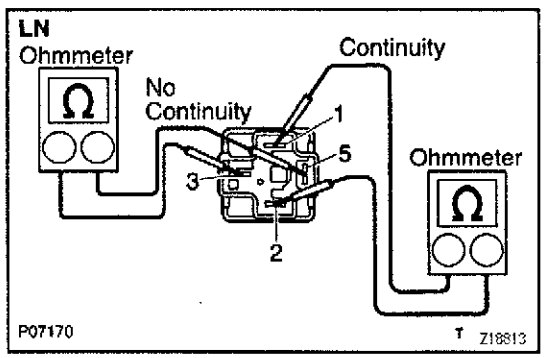
(a) Apply a vacuum of 26.7 ± 6.7 kPa (200 ± 50 mmHg, 7.87 ± 1.97 in.Hg) or more to the vacuum switch port.

(b) Using an ohmmeter, check that there is continuity between terminal 1 and the switch body.

If there is no continuity, replace the vacuum switch.

3. **REINSTALL VACUUM SWITCH TO FUEL FILTER CAP**

Torque: 36.8 N·m (375 kgf·cm, 27 ft·lbf)



Fuel Heater Relay (LN)

1. **REMOVE FUEL HEATER RELAY**

LOCATION: See relay locations in Electrical Wiring Diagram.

2. **INSPECT FUEL HEATER RELAY**

A. Inspect relay continuity

(a) Using an ohmmeter, check that there is continuity between terminals 1 and 2.

If there is no continuity, replace the relay.

(b) Check that there is no continuity between terminals 3 and 5.

If there is continuity, replace the relay.

B. Inspect relay operation

(a) Apply battery voltage across terminals 1 and 2.

(b) Using an ohmmeter, check that there is continuity between terminals 3 and 5.

If there is no continuity, replace the relay.

3. **REINSTALL FUEL HEATER RELAY**

