

# HEATED OXYGEN SENSOR HEATED OXYGEN SENSOR INSPECTION

## 1. INSPECT HEATER RESISTANCE OF HEATED OXYGEN SENSOR

Using an ohmmeter, measure the resistance between the terminals +B and HT.

#### Resistance:

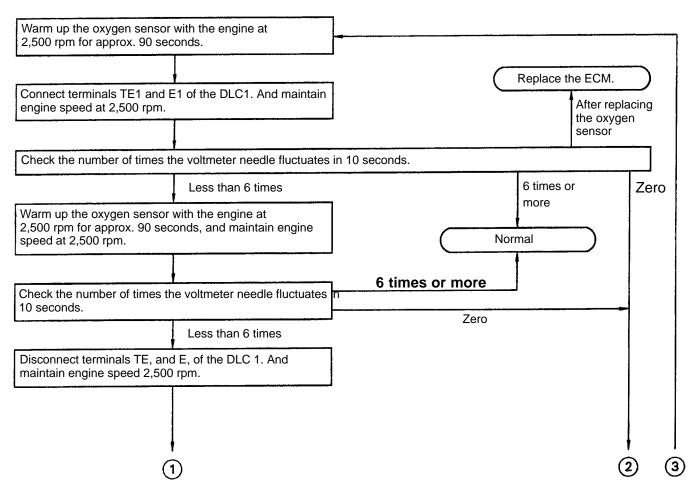
At 20° C (68° F):  $5 - 7\Omega$ 

If the resistance is not as specified, replace the heated oxygen sensor.

#### 2. INSPECTION OF FEEDBACK VOLTAGE (VF1)

- (a) Warm up the engine.
- (b) Connect the voltmeter to the DLC1 terminals VF1 and F1

HINT: Use SST when connecting between terminals TE1 and E1 of the DLC1. SST 09843–18020



#### **CONTINUED ON PAGE**

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### CONTINUED FROM PAGE EG1-197 Measure voltage between terminals VF1 and E1. More than 0 V 0 V Read and record diagnostic trouble codes. Normal code, code 21 Malfunction code(s) code 25 and code 26 (except code 21, code 25 and code 26) Repair the relevant diagnostic trouble code, Repair the relevant diagnostic trouble code. Malfunction code(s) (except code 21, code 25 and code 26) Read and record diagnostic trouble codes. (See pages EG1-117,118) Normal code, code 21, code 25 and code 26 Disconnect terminals TE1 and E, of the DLC1. And maintain engine speed at 2,500 rpm. Measure voltage between terminals VF, and El. 5 V 0 V Disconnect the PCV hose. Measure voltage between terminals VF, and E1. More then 0 V 0 V Repair (Over rich) Disconnect the engine coolant temp. sensor connector and connect a resistor with a resistance of 4 – 8 $k\Omega$ or send an equivalent simulation signal. Connect terminals TE1 and E1 of the DLC1. Warm up the oxygen sensor with the engine at 2,500 rpm for approx. 90 seconds. And maintain engine speed at 2,500 rpm. Measure voltage between terminals VF1 and E1. 5 V Replace the oxygen sensor. Repair (Over lean)