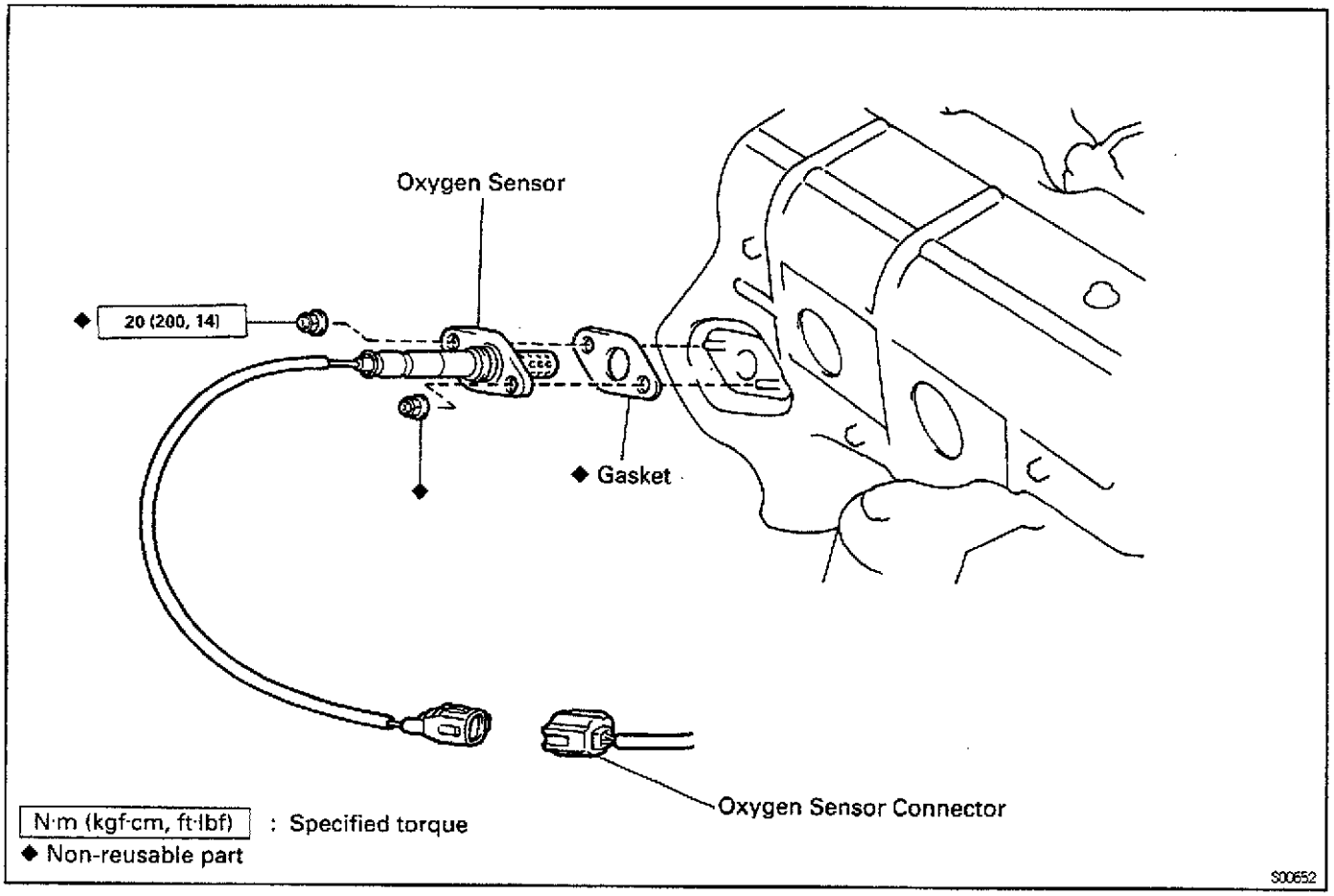
EG

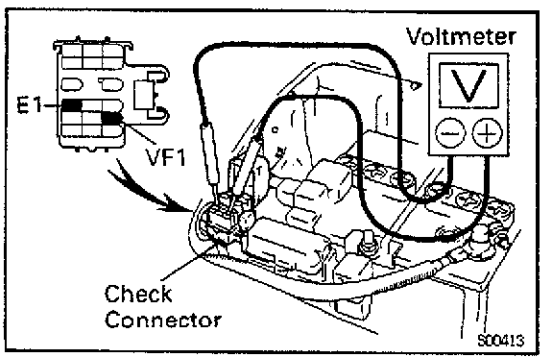
OXYGEN SENSOR

COMPONENTS FOR REMOVAL AND INSTALLATION



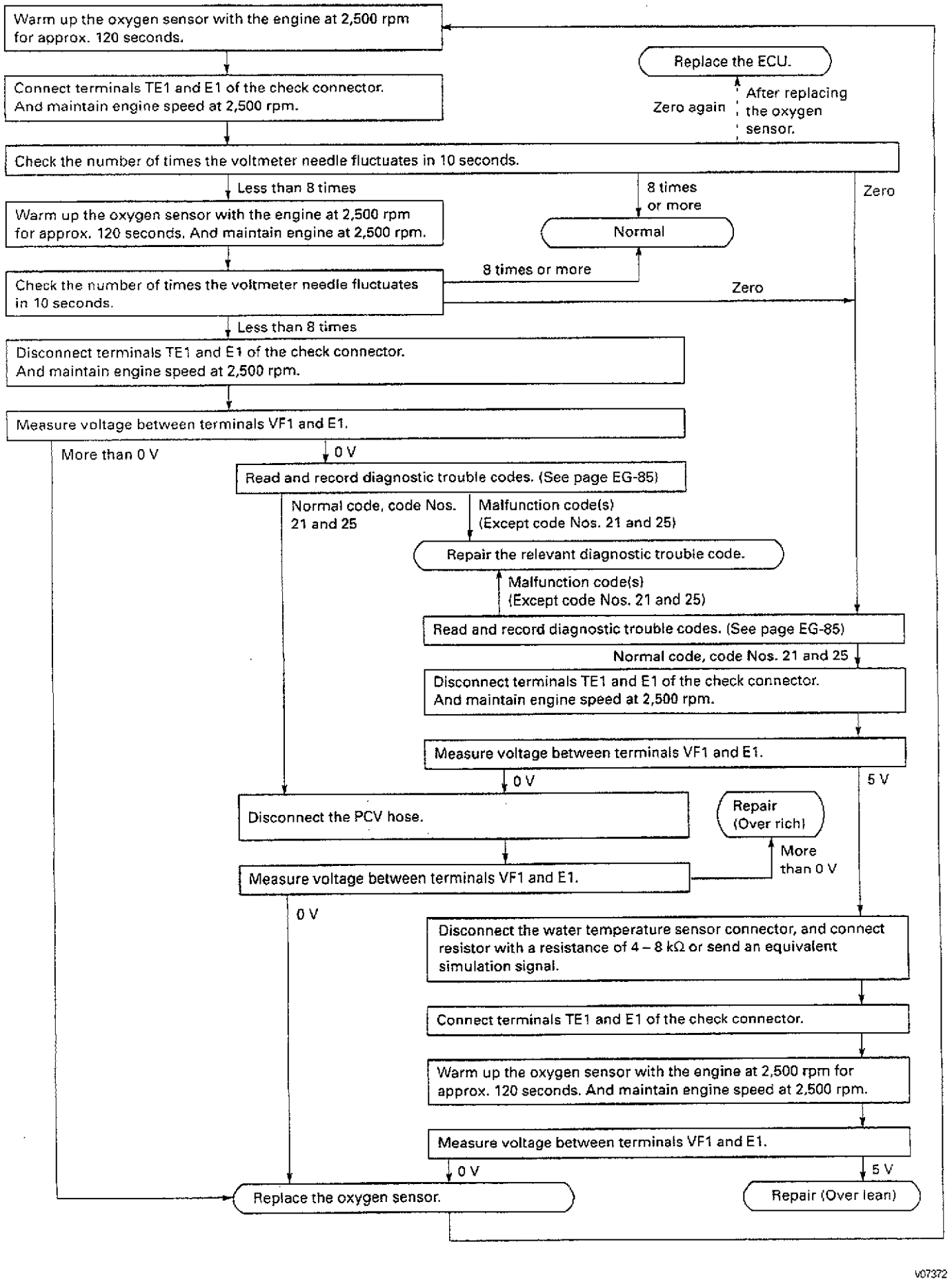
OXYGEN SENSOR INSPECTION

1. **WARM UP ENGINE**
   Allow the engine to warm up to normal operating temperature.



2. **INSPECT FEEDBACK VOLTAGE**
   Connect the positive (+) tester probe of a voltmeter to terminal VF1 of the check connector, and negative (−) tester probe to terminal E1. Do the test as described on the next page.
   HINT: Use SST when connecting between terminals TE1 and E1 of the check connector.
   SST 09843−18020

EG


Warm up the oxygen sensor with the engine at 2,500 rpm for approx. 120 seconds.
Connect terminals TE1 and E1 of the check connector. And maintain engine speed at 2,500 rpm.
Check the number of times the voltmeter needle fluctuates in 10 seconds.
Less than 8 times
8 times or more
Zero
Normal
Replace the ECU.
Zero again
After replacing the oxygen sensor.
Warm up the oxygen sensor with the engine at 2,500 rpm for approx. 120 seconds. And maintain engine at 2,500 rpm.
Check the number of times the voltmeter needle fluctuates in 10 seconds.
8 times or more
Zero
Less than 8 times
Disconnect terminals TE1 and E1 of the check connector. And maintain engine speed at 2,500 rpm.
Measure voltage between terminals VF1 and E1.
More than 0 V
0 V
Read and record diagnostic trouble codes. (See page EG-85)
Normal code, code Nos. 21 and 25
Malfunction code(s) (Except code Nos. 21 and 25)
Repair the relevant diagnostic trouble code.
Malfunction code(s) (Except code Nos. 21 and 25)
Read and record diagnostic trouble codes. (See page EG-85)
Normal code, code Nos. 21 and 25
Disconnect terminals TE1 and E1 of the check connector. And maintain engine speed at 2,500 rpm.
Measure voltage between terminals VF1 and E1.
0 V
5 V
Disconnect the PCV hose.
Repair (Over rich)
More than 0 V
Measure voltage between terminals VF1 and E1.
0 V
Disconnect the water temperature sensor connector, and connect resistor with a resistance of 4 – 8 kΩ or send an equivalent simulation signal.
Connect terminals TE1 and E1 of the check connector.
Warm up the oxygen sensor with the engine at 2,500 rpm for approx. 120 seconds. And maintain engine speed at 2,500 rpm.
Measure voltage between terminals VF1 and E1.
0 V
5 V
Replace the oxygen sensor.
Repair (Over lean)

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