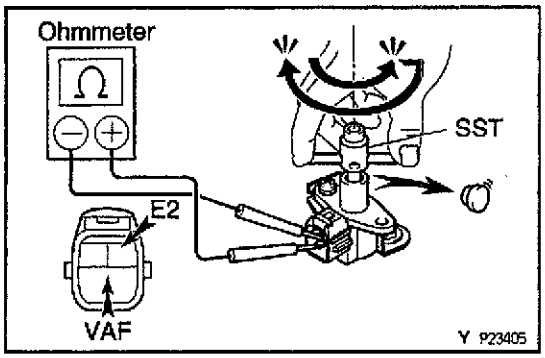
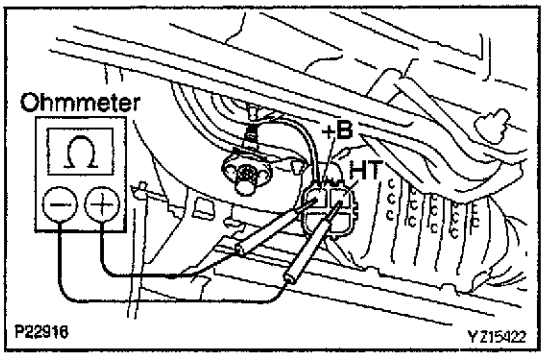
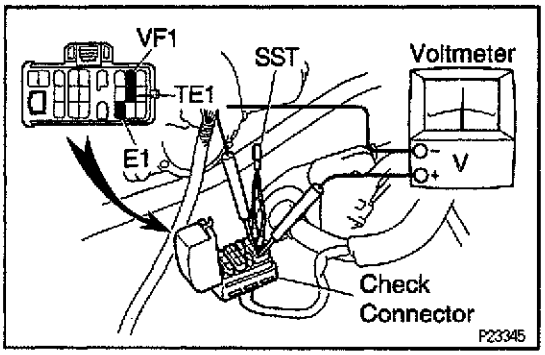


(c) Using SST, turn the idle mixture adjusting screw fully counterclockwise.
SST 09243–00020

(d) Connect the 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 kΩ accordingly.

(e) Reconnect the variable resistor connector.





OXYGEN SENSOR (Europe)

OXYGEN SENSOR INSPECTION

1. INSPECT HEATER RESISTANCE OF OXYGEN SENSOR

(a) Disconnect the oxygen sensor connector.

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

Resistance:

At 20°C (68°F): 11 – 16 Ω

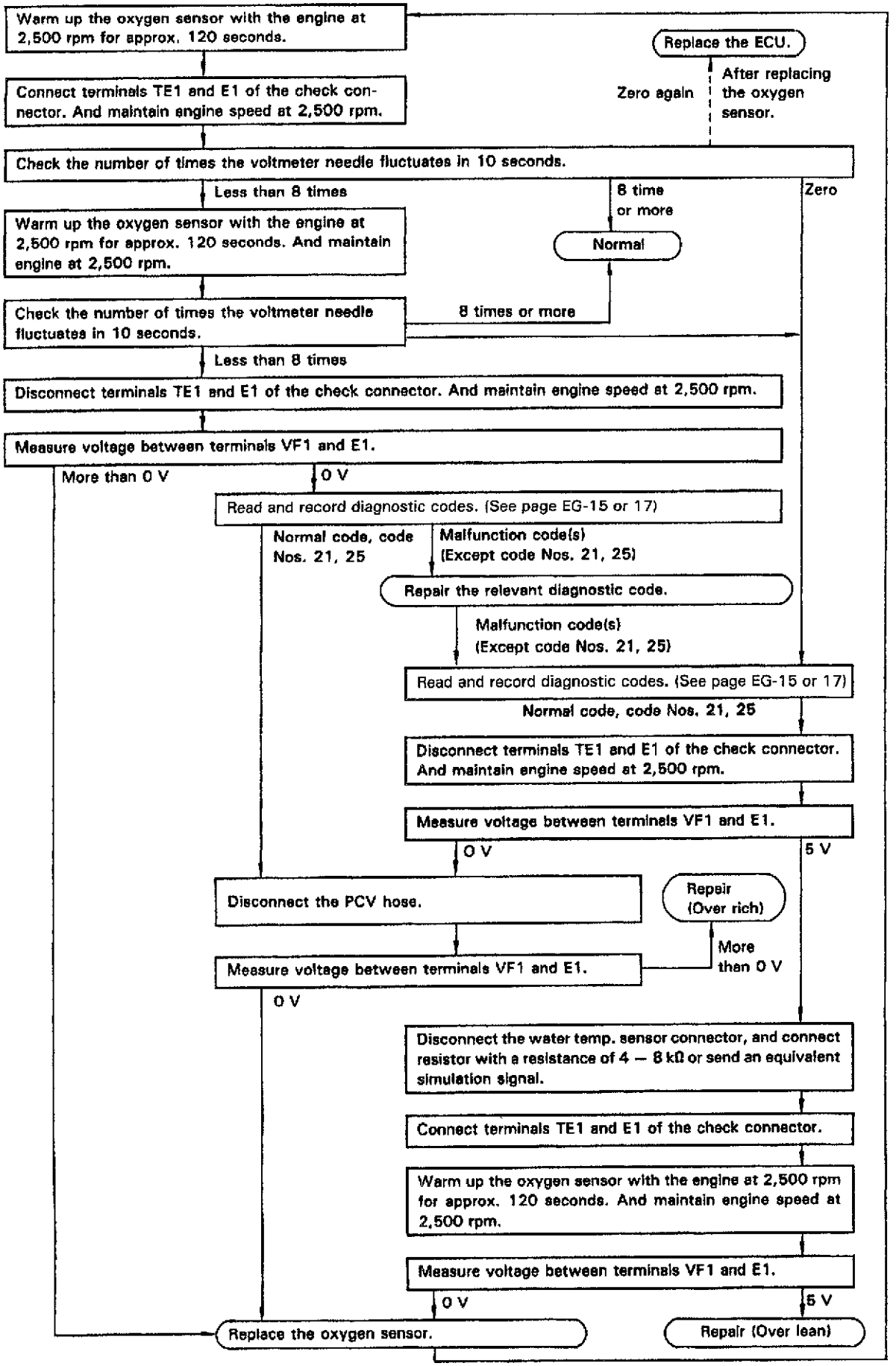
If resistance is not as specified, replace the oxygen sensor.

(c) Reconnect the oxygen sensor connector.

2. INSPECT FEEDBACK VOLTAGE

(a) Warm up the engine.

(b) Connect the positive (+) probe of a voltmeter to terminal VF1 of the check connector, and negative (–) probe to terminal E1. Do the test on the next page.
HINT: Use SST when connecting between terminals TE1 and E1 of the check connector.
SST 09843–18020


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 time or more
Zero
Normal
Replace the ECU.
After replacing the oxygen sensor.
Zero again
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
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 codes. (See page EG-15 or 17)
Normal code, code Nos. 21, 25
Malfunction code(s) (Except code Nos. 21, 25)
Repair the relevant diagnostic code.
Malfunction code(s) (Except code Nos. 21, 25)
Read and record diagnostic codes. (See page EG-15 or 17)
Normal code, code Nos. 21, 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 temp. 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)

V06516