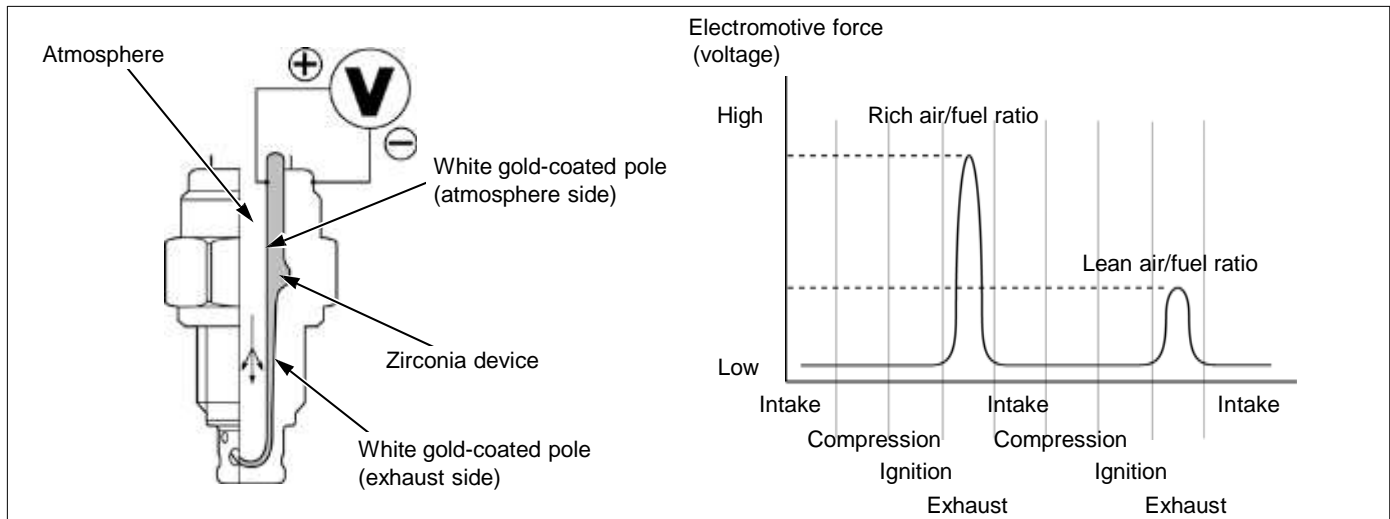




ELECTRICAL SYSTEM

O₂ SENSOR

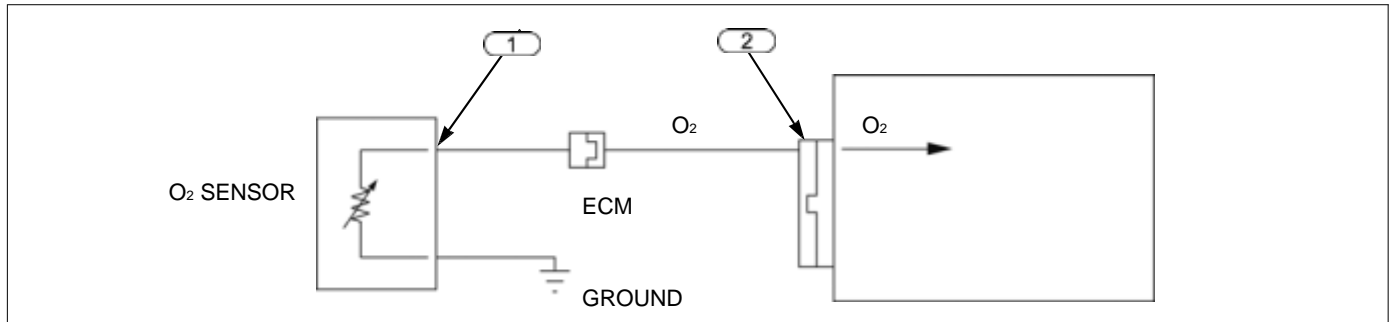
- O₂ sensor is cylindrical shaped and is white gold-coated zirconium device. The inside of the device is exposed to the atmosphere and outside is exposed to the exhaust gas.
- When the temperature is higher than certain, zirconium device produces electric power by difference of oxygen concentration between the atmosphere and exhaust gas.
- O₂ sensor detects changes in oxygen concentration in exhaust gas by measuring the electric power. ECM receives change of oxygen concentration as voltages.
- When the difference of oxygen concentration between the atmosphere and the exhaust gas is very small (when air/fuel ratio is lean), the voltage of O₂ sensor is about 120 mV. The voltage is about 700 mV, when the difference is big (when air/fuel ratio is rich).
- The ECM corrects discharge duration corresponding with the oxygen concentration in exhaust gas.



SYSTEM DIAGRAM

Without heater type:

- ① O₂ sensor cap (Wire side) ② ECM connector (Wire side)



Equipped with heater type:

- ① O₂ sensor connector (Wire side) ② ECM connector (Wire side)
① O₂ sensor connector (Sensor side)

