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| **Title:** 2AR-FE EMISSION CONTROL: EMISSION CONTROL SYSTEM: EXHAUST EMISSION CONTROL; 2013 MY RAV4 [12/2012 - ] | | |

# EXHAUST EMISSION CONTROL

## 1. FUNCTION OF MAIN COMPONETS

(a) The main components of the exhaust emission control system are as follows:

| COMPONENT | FUNCTION |
|---|---|
| ECM | Determines an optimal fuel injection volume based on the signals from various sensors. |
| TWC | Oxidizes CO and HC in the exhaust gas and deoxidizes NOx at the same time to purify them into $CO_2$ , $H_2O$ and $N_2$ . |
| Air Fuel Ratio Sensor | These sensors detect the oxygen concentration in the exhaust emissions by measuring the electromotive force which is generated in the sensor itself. For details, see the 2AR-FE ENGINE CONTROL section. [SFI SYSTEM > AIR FUEL RATIO SENSOR AND HEATED OXYGEN SENSOR INFO ] |
| Air Fuel Ratio Sensor | |