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| **Model Year:** 2013 | **Model:** RAV4 | **Prod Date Range:** [12/2012 - ] |
| **Title:** 2AR-FE ENGINE CONTROL: SFI SYSTEM: GENERAL; 2013 MY RAV4 [12/2012 - ] | | |

# GENERAL

## 1. OUTLINE

(a) The engine control system performs highly accurate, integrated control of the following systems to achieve high performance, high power, high fuel efficiency and reduced emissions:

(1) Sequential Multiport Fuel Injection (SFI)

(2) Electronic Spark Advance (ESA)

(3) Electronic Throttle Control System-intelligent (ETCS-i)

(4) Dual Variable Valve Timing-intelligent (Dual VVT-i)

(5) Acoustic Control Induction System (ACIS)

(6) Tumble Control

(7) Fuel Pump Control

(8) Air Conditioning Cut-off Control

(9) Cooling Fan Control

(10) Starter Control (Cranking Hold Function)*

(11) Air Fuel Ratio Sensor and Oxygen Sensor Heater Control

(12) Engine Immobiliser

(13) Brake Override System

(14) Diagnosis

(15) Fail-safe

*: Models with smart key system