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| **Title:** INTRODUCTION: FEATURES: PERFORMANCE; 2013 MY RAV4 [12/2012 - ] | | |

# PERFORMANCE

## 1. OUTLINE

(a) 2AR-FE Engine

(1) The 2AR-FE engine is an in-line, 4-cylinder, 2.5-liter, 16-valve DOHC engine. This engine uses the Dual Variable Valve Timing-intelligent (Dual VVT-i) system, Direct Ignition System (DIS), Acoustic Control Induction System (ACIS) and Electronic Throttle Control System-intelligent (ETCS-i). It has been developed to achieve high performance, quietness, fuel economy and clean emissions.

| Engine Type | | 2AR-FE |
|---|---|---|
| Item | No. of Cyls. and Arrangement | 4-cylinder, In-line |
| | Valve Mechanism | 16-valve DOHC, Chain Drive (with Dual VVT-i) |
| | Displacement | 2494 $cm^3$ (152.2 cu. in.) |
| | Max. Output [SAE-NET]* | 131 kW @ 6000 rpm (176 HP @ 6000 rpm) |
| | Max. Torque [SAE-NET]* | 233 N*m @ 4100 rpm (172 ft.*lbf @ 4100 rpm) |

**HINT:**

*: Maximum output and torque rating are determined by revised SAE J1349 standard.

(b) Automatic Transaxle

(1) U760E and U760F 6-speed automatic transaxles are used.

(c) Suspension

(1) A MacPherson strut type independent suspension is used for the front.

(2) A double-wishbone type independent suspension is used for the rear.

(d) Brake

(1) A ventilated disc brake is provided for the front brake.

(2) A drum-in type solid disc brake is provided for the rear brake.

(3) The following brake control functions are provided: Anti-lock Brake System (ABS), Electronic Brake force Distribution (EBD), brake assist, Auto LSD, Traction Control (TRAC) and Vehicle Stability Control (VSC).

(e) Steering

(1) A rack and pinion type steering gear assembly is used.

(2) An Electric Power Steering (EPS) system is used.

(3) A manual tilt and telescopic mechanism is used.