

ENGINE CONTROL SYSTEM

03048-02

SERVICE DATA

2AZ-FE:

Throttle body	Standard throttle valve opening percentage	60% or more
Accelerator pedal position sensor	Standard voltage	0.6 to 1.0 V
Intake air flow meter assy Resistance	4 (THA) - 5 (E2) at -20°C (-4°F) at 20°C (68°F) at 60°C (140°F)	13.6 to 18.4 kΩ 2.21 to 2.69 kΩ 0.493 to 0.667 kΩ
Camshaft timing oil control valve assy Resistance	at 20°C (68°F)	6.9 to 7.9 Ω
Throttle body assy Resistance	at 20°C (68°F) 2 (M+) - 1 (M-)	0.3 to 100 kΩ
E.F.I. engine coolant temperature sensor Resistance	Approx. 20°C (68°F) Approx. 80°C (176°F)	2.32 to 2.59 kΩ 0.310 to 0.326 kΩ
Knock sensor Resistance	at 20°C (68°F)	120 to 280 kΩ
EFI relay Specified condition	3 - 5 3 - 5	10 kΩ or higher Below 1 Ω (when battery voltage is applied to terminals 1 and 2)
C/OPN relay Specified condition	3 - 5 3 - 5	10 kΩ or higher Below 1 Ω (when battery voltage is applied to terminals 1 and 2)

3MZ-FE:

Throttle body	Standard throttle valve opening percentage	60% or more
Accelerator pedal position sensor	Standard voltage	0.6 to 1.0 V
Intake air flow meter assy Resistance	4 (THA) - 5 (E2) at -20°C (-4°F) at 20°C (68°F) at 60°C (140°F)	13.6 to 18.4 kΩ 2.21 to 2.69 kΩ 0.493 to 0.667 kΩ
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C/OPN relay Specified condition	3 - 5 3 - 5	10 kΩ or higher Below 1 Ω (when battery voltage is applied to terminals 1 and 2)