

ENGINE CONTROL SYSTEM

0320S-01

SERVICE DATA

1AZ-FE/2AZ-FE:

Throttle body	Standard throttle valve opening percentage	60 % or more
Accelerator pedal position sensor	Accelerator Position No. 1 Released	0.4 to 1.4 V
Voltage	Depressed	3.0 to 4.6 V
	Accelerator Position No. 2 Released	0.9 to 2.3 V
	Depressed	3.4 to 5.0 V
Camshaft timing oil control valve assy	Resistance	at 20°C (68°F) 6.9 to 7.9 Ω
Mass air flow meter	Resistance	4 (THA) - 5 (E2) at -20°C (-4°F) 13.6 to 18.4 kΩ at 20°C (68°F) 2.21 to 2.69 kΩ at 60°C (140°F) 0.493 to 0.667 kΩ
Engine coolant temperature sensor	Resistance	at 20°C (68°F) 2.32 to 2.59 kΩ at 80°C (176°F) 0.310 to 0.326 kΩ
Throttle body assy	Resistance	1 (M-) - 2 (M+) 0.3 to 100 Ω at 20°C (68°F) 3 (E2) - 5 (VC) 1.2 to 3.2 Ω at 20°C (68°F)
Knock control sensor	Resistance	Approx. 20°C (68°F) 120 to 280 kΩ
Accelerator pedal rod	Resistance	LHD 3 (EP1) - 6 (VCP1) 2.25 to 4.75 kΩ 1 (EP2) - 4 (VCP2) 2.25 to 4.75 kΩ RHD 1 (EP1) - 4 (VCP1) 2.25 to 4.75 kΩ 3 (EP2) - 6 (VCP2) 2.25 to 4.75 kΩ
E.F.I. ECU relay	Specified condition	3 - 5 10 kΩ or higher 3 - 5 Below 1 Ω (Apply battery voltage terminals 1 and 2)
E.F.I. Circuit opening relay	Specified condition	3 - 5 10 kΩ or higher 3 - 5 Below 1 Ω (Apply battery voltage terminals 1 and 2)