

# ENGINE CONTROL SYSTEM

## SERVICE DATA

031VG-01

Camshaft timing oil control valve assy Resistance	1 (+) - 2 (-)	6.9 to 7.9 $\Omega$ at 20°C (68°F)
Mass air flow meter Resistance	4 (THA) - 5 (E2)	13.6 to 18.4 k $\Omega$ at -20°C (-4°F) 2.21 to 2.68 k $\Omega$ at 20°C (68°F) 0.493 to 0.667 k $\Omega$ at 60°C (140°F)
Engine coolant temperature sensor Resistance	1 (E2) - 2 (THW)	2.32 to 2.59 k $\Omega$ at 20°C (68°F) 0.310 to 0.326 k $\Omega$ at 80°C (176°F)
Throttle w/ motor body assy Throttle valve opening percentage Idle speed Resistance (Throttle control motor) Resistance (Throttle position sensor)	1 (M+) - 2 (M+) 1 (VC) - 4 (E2)	60 % or more 950 to 1,050rpm 0.3 to 100 $\Omega$ at 20°C (68°F) 1.25 to 2.35 $\Omega$ at 20°C (68°F)
Knock sensor Resistance	1 (Ground) - 2 (Output)	120 to 280 k $\Omega$ at 20°C (68°F)
EFI Relay Resistance	B5 - B8	10 k $\Omega$ or higher Below 1 $\Omega$ (Apply battery voltage to terminal B6 and B7)
Circuit opening relay Resistance	B5 - B8	10 k $\Omega$ or higher Below 1 $\Omega$ (Apply battery voltage to terminal B6 and B7)