INTAKE

03169–01

SERVICE DATA

1KZ–TE:

Turbocharger		
Standard pressure	Maximum speed (approx. 4600 rpm)	51 – 67 kPa (0.52 – 0.68 kgf/cm^2, 7.4 – 9.7 psi)
Turbo pressure sensor		
Voltage	VC – E2	4.5 – 5.5 V
Voltage drop	13.3 kPa (100 mmHg, 3.94 in.Hg)	0.3 – 0.5 V
	26.7 kPa (200 mmHg, 7.87 in.Hg)	0.6 – 0.8 V
	40.0 kPa (300 mmHg, 11.81 in.Hg)	0.95 – 1.15 V
Voltage up	19.6 kPa (0.20 kgf/cm^2, 2.84 psi)	0.4 – 0.7 V
	39.2 kPa (0.40 kgf/cm^2, 5.69 psi)	0.9 – 1.2 V
	58.8 kPa (0.60 kgf/cm^2, 8.53 psi)	1.5 – 1.8 V
	78.5 kPa (0.80 kgf/cm^2, 11.4 psi)	2.0 – 2.3 V
	98.0 kPa (1.00 kgf/cm^2, 14.2 psi)	2.5 – 2.8 V

1KD–FTV:

Turbocharger		
Standard pressure	Maximum speed (4500 – 4700 rpm)	110 kPa (1.1 kgf/cm^2, 15.6 psi) or more
Turbo pressure sensor		
Voltage	VC – E2	4.5 – 5.5 V
Voltage drop	13.3 kPa (100 mmHg, 3.94 in.Hg)	0.1 – 0.3 V
	26.7 kPa (200 mmHg, 7.87 in.Hg)	0.3 – 0.5 V
	40.0 kPa (300 mmHg, 11.81 in.Hg)	0.5 – 0.7 V
Voltage up	19.6 kPa (0.20 kgf/cm^2, 2.84 psi)	0.1 – 0.4 V
	39.2 kPa (0.40 kgf/cm^2, 5.69 psi)	0.4 – 0.7 V
	58.8 kPa (0.60 kgf/cm^2, 8.53 psi)	0.7 – 1.0 V
	78.5 kPa (0.80 kgf/cm^2, 11.4 psi)	1.0 – 1.3 V
	98.0 kPa (1.00 kgf/cm^2, 14.2 psi)	1.3 – 1.6 V
Turbocharger step motor	Rod stroke range	11 ± 0.03 mm (0.43 ± 0.0012 in.)
Turbocharger compensate resistor		
Resistance	Mark 1	214 – 228 Ω
	Mark 2	285 – 303 Ω
	Mark 3	372 – 394 Ω
	Mark 4	472 – 502 Ω
	Mark 5	600 – 638 Ω
	Mark 6	763 – 811 Ω
	Mark 7	989 – 1051 Ω
	Mark 8	1290 – 1370 Ω
	Mark 9	1727 – 1833 Ω
Vacuum switching valve		
Resistance	at 20 °C (68 °F)	37 – 44 Ω