FUEL

03165–02

SERVICE DATA

3RZ–FE:

Fuel pressure		265 – 304 kPa (2.7 – 3.1 kgf/cm^2, 38 – 44 psi)
Fuel pressure		147 kPa (1.5 kgf/cm^2, 21 psi) or more
Fuel injector		
Resistance	at 20°C (68°F)	13.4 – 14.2Ω
Injection volume	Leaded gasoline model	64 – 77 cm^2 (3.9 – 4.7 cu in.) per 13 seconds
Difference between each cylinder	Leaded gasoline model	13 cm^3 (0.8 cu in.) or less
Injection volume	Unleaded gasoline model	71 – 86 cm^2 (4.3 – 5.3 cu in.) per 15 seconds
Difference between each cylinder	Unleaded gasoline model	15 cm^3 (1.0 cu in.) or less
Fuel leakage		1 drop or less per 12 minutes
Fuel pump		
Resistance	at 20°C (68°F)	0.2 – 3.0 Ω
Fuel suction W/ Pump & gage tube assy		
Resistance	at 20°C (68°F)	0.2 – 3.0 Ω

5L–E:

Injection or supply pump		
Engine speed sensor	resistance	205 – 255 Ω at 20 °C (68 °F)
Spill control valve	resistance	1 – 2 Ω at 20 °C (68 °F)
Timing control valve	resistance	10 – 15 Ω at 20 °C (68 °F)
Level warning switch		
Specified condition	Upper end of the float	Continuity
	Lower end of the float	No continuity
Fuel temperature sensor		
Resistance	at 20 °C (68 °F)	2.21 – 2.69 kΩ
	at 80 °C (176 °F)	0.287 – 0.349 kΩ

1KZ–TE:

Injection or supply pump		
Engine speed sensor	resistance	205 – 255 Ω at 20 °C (68 °F)
Spill control valve	resistance	1 – 2 Ω at 20 °C (68 °F)
Timing control valve	resistance	10 – 14 Ω at 20 °C (68 °F)
Level warning switch		
Specified condition	Upper end of the float	Continuity
	Lower end of the float	No continuity
Fuel temperature sensor		
Resistance	at 20 °C (68 °F)	2.21 – 2.69 kΩ
	at 80 °C (176 °F)	0.287 – 0.349 kΩ

1KD–FTV:

Injection or supply pump		
Resistance	SCV 1	1.5 – 1.7 Ω at 20 °C (68 °F)
	SCV 2	1.5 – 1.7 Ω at 20 °C (68 °F)
Injector		
Resistance	at 20 °C (68 °F)	2.6 – 2.8 Ω
Common rail		
Resistance	2 – 3	3 kΩ or less
	1 – 2	16.4 kΩ or less
Fuel heater		
Resistance	at 20 °C (68 °F)	0.5 – 2.0 Ω
Level warning switch		
Specified condition	Float upper limit	Continuity
	Float lower limit	No continuity

Fuel temperature sensor		
Resistance	at 20 °C (68 °F)	2.21 – 2.69 kΩ
	at 80 °C (176 °F)	0.287 – 0.349 kΩ
Supply pump drive shaft pulley		
Thrust chearance		0.15 – 0.55 mm (0.0059 – 0.0217 in.)