

SPECIFICATIONS 1GR-FE ENGINE CONTROL SERVICE DATA

CAMSHAFT OIL CONTROL VALVE

Tester Connection	Condition	Specified Condition
1 - 2	20°C (68°F)	6.9 to 7.9 Ω

THROTTLE BODY

Tester Connection	Condition	Specified Condition
2 (M+) - 1 (M-)	20°C (68°F)	0.3 to 100 Ω

ACCELERATOR PEDAL

Tester display	Condition	Specified Condition
Accel Sensor Out No. 1	Released	0.5 to 1.1 V
	Depressed	2.6 to 4.5 V
Accel Sensor Out No. 2	Released	1.2 to 2.0 V
	Depressed	3.4 to 4.75 V

CRANKSHAFT POSITION SENSOR

Tester Connection	Condition	Specified Condition
1 - 2	Cold	1630 to 2740 Ω
	Hot	2065 to 3225 Ω

ENGINE COOLANT TEMPERATURE SENSOR

Tester Connection	Condition	Specified Condition
1 - 2	Approximately 20°C (68°F)	2.32 to 2.59 k Ω
	Approximately 80°C (176°F)	0.310 to 0.326 k Ω

KNOCK SENSOR

Tester Connection	Condition	Specified Condition
1 - 2	20°C (68°F)	120 to 280 k Ω

AIR FUEL RATIO SENSOR (for Bank 1)

Tester Connection	Condition	Specified Condition
1 (HT1A) - 2 (+B)	20°C (68°F)	1.8 to 3.4 Ω
1 (HT1A) - 4 (A1A-)	Always	10 k Ω or higher

AIR FUEL RATIO SENSOR (for Bank 2)

Tester Connection	Condition	Specified Condition
1 (HT2A) - 2 (+B)	20°C (68°F)	1.8 to 3.4 Ω
1 (HT2A) - 4 (A2A-)	Always	10 k Ω or higher

HEATED OXYGEN SENSOR (for Bank 1)

Tester Connection	Condition	Specified Condition
1 (HT1B) - 2 (+B)	20°C (68°F)	11 to 16 Ω
1 (HT1B) - 4 (E2)	Always	10 k Ω or higher

HEATED OXYGEN SENSOR (for Bank 2)

Tester Connection	Condition	Specified Condition
1 (HT2B) - 2 (+B)	20°C (68°F)	11 to 16 Ω
1 (HT2B) - 4 (E2)	Always	10 k Ω or higher

SPARK PLUG

Recommended spark plug	Electrode gap for new spark plug	Maximum electrode gap for used spark plug	Standard insulation resistance
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Recommended spark plug	Electrode gap for new spark plug	Maximum electrode gap for used spark plug	Standard insulation resistance
DENSO made: K20HR-U11	1.0 to 1.1 mm (0.0394 to 0.0433 in.)	1.3 mm (0.0512 in.)	10 MΩ or higher
NGK made: LFR6C-11			