

1GR-FE CHARGING**SERVICE DATA**

Battery	Voltage			12.6 to 12.9 V at 20°C (68°F)
Charging circuit without load	Amperage		Standard	10A or less
	Voltage			13.2 to 14.8 V
Generator (DENSO made)	Generator brush holder assembly	Brush length	Standard	10.5 mm (0.413 in.)
			Minimum	4.5 mm (0.177 in.)
	Generator rotor assembly	Resistance	Standard	2.3 to 2.7 Ω at 20°C (68°F)
		Slip ring diameter	Standard	14.2 to 14.4 mm (0.559 to 0.567 in.)
	Minimum		14.0 mm (0.551 in.)	

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TORQUE SPECIFICATIONS

Part Tightened	N*m	kgf*cm	ft.*lbf
Generator assembly x V-ribbed belt tensioner and cylinder head	43	438	32
Generator assembly x Wire harness clamp bracket	8.0	82	71 in.*lbf
Generator assembly x Terminal B	10	100	7
Wire harness stay x Body	5.8	59	51 in.*lbf
V-bank cover x Intake air surge tank sub-assembly and Air cleaner assembly	7.5	76	66 in.*lbf
Engine under cover sub-assembly No. 1 x Frame assembly	29	296	21
Retainer plate x Drive end frame assembly generator (Denso made)	26	27	23 in.*lbf
Generator coil assembly x Drive frame assembly generator (Denso made)	5.8	59	51 in.*lbf
Generator brush holder assembly x Generator coil assembly (Denso made)	1.8	18	16 in.*lbf
Generator rear end cover x Generator coil assembly (Denso made)	4.6	47	41 in.*lbf
Generator pulley x Generator rotor assembly (Denso made)	111	1,125	81

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