## **1NZ-FE CHARGING SERVICE DATA**

Battery	Standard voltage		12.5 to 12.9 V at 20°C (68°F)
Charging circuit with load	Standard amperage		30 A or more
Generator brush holder assembly	Brush length	Standard length	9.5 to 11.5 mm (0.374 to 0.453 in.)
		Minimum length	4.5 mm (0.177 in.)
Generator rotor assembly	Standard resistance	Slip ring	2.1 to 2.5 Ω at 20°C (68°F)
		Slip ring - Rotor core	10 k $\Omega$ or higher
	Slip ring diameter	Standard diameter	14.2 to 14.4 mm (0.559 to 0.567 in.)
		Minimum diameter	12.8 mm (0.504 in.)

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## **TORQUE SPECIFICATIONS**

Part Tightened	N*m	kgf*cm	ft.*lbf
Adjusting Bar x Cylinder Head	11	112	8
Generator Assembly x Adjusting Bar	18.5	189	14
Generator Assembly x Cylinder Head	54	551	40
Generator Wire x Generator Assembly	9.8	100	7

