

## 2TR-FE CHARGING

### SERVICE DATA

Battery	Voltage		Standard	12.5 to 12.9 V at 20°C (68°F)
Charging circuit without load	Amperage		Standard	10 A or less
	Voltage		Standard	13.2 to 14.8
Charging circuit with load	Amperage		Standard	30 A or more
Generator assembly	Generator brush holder assembly	Brush length	Standard	9.5 to 11.5 mm (0.374 to 0.453 in.)
			Minimum	4.5 mm (0.177 in.)
	Generator rotor assembly	Resistance	at 20°C (68°F)	1.7 to 2.1 $\Omega$
	Slip ring diameter		Standard	14.2 to 14.4 mm (0.559 to 0.567 in.)
			Minimum	14.0 mm (0.551 in.)

SS

## TORQUE SPECIFICATIONS

Part Tightened	N*m	kgf*cm	ft.*lbf	
Generator assembly x Generator wire	9.8	100	7	
Generator assembly x Timing chain cover	43	438	32	
Generator assembly x V-ribbed belt tensioner assembly	43	438	32	
Battery x Battery negative terminal	3.9	40	35 in.*lbf	
Generator drive end frame assembly x Generator rectifier end frame	4.5	46	40 in.*lbf	
Generator holder w/ rectifier x Generator drive end frame assembly	2.0	20	17 in.*lbf	
Generator regulator assembly x Generator rectifier end frame	2.0	20	17 in.*lbf	
Generator brush holder assembly x Generator rectifier end frame	2.0	20	17 in.*lbf	
Generator rear end cover x Generator regulator end frame	4.4	45	39 in.*lbf	
Terminal plate x Generator rectifier end frame assembly	Bolt	3.9	40	34 in.*lbf
	Nut	4.4	45	39 in.*lbf
Generator pulley x Generator rotor assembly	137	1,397	101	

**SS**