SERVICE SPECIFICATIONS

SERVICE DATA

ST0CC-03

Starter (1.2 kW, 1.4 kW type)	Rated voltage and output power		12 V 1.2 kW, 1.4 kW
	No-load characteristics	Current	90 A or less at 11.5 V
		rpm	3,000 rpm or more
	Brush length	STD	15.5 mm (0.610 in.)
		Minimum	10.0 mm (0.394 in.)
	Spring installed load		
	1.2 kW type	STD	13.7 – 19.6 N (1.40 – 2.00 kgf, 3.1 – 4.4 lbf)
		Minimum	9.8 N (1.00 kgf, 2.2 lbf)
	1.4 kW type	STD	17.6 – 23.5 N (1.80 – 2.40 kgf, 4.0 – 5.3 lbf)
		Minimum	11.8 N (1.20 kgf, 2.6 lbf)
	Commutator		
	Diameter	STD	30.0 mm (1.181 in.)
		Minimum	29.0 mm (1.412 in.)
	Undercut depth	STD	0.6 mm (0.024 in.)
		Minimum	0.2 mm (0.008 in.)
	Circle runout	Maximum	0.05 mm (0.0020 in.)
	Magnetic switch		
	Contact plate for wear	Maximum	0.9 mm (0.035 in.)

TORQUE SPECIFICATIONS

ST0CD-02

Part tightened	N·m	kgf·cm	ft·lbf
Starter mounting bolt	39	400	29
Starter wire mounting nut	8.8	90	78 in.·lbf
Lead wire x Terminal C of starter	5.9	60	52 in.·lbf
Field frame x Starter housing	5.9	60	52 in.·lbf
Starter housing x Magnetic switch	5.9	60	52 in.·lbf
End cover x Field frame	1.5	15	13 in.·lbf
Terminal nut x Terminal 30 of starter	17	170	12
Terminal nut x Terminal C of starter	17	170	12
Magnetic switch end cover x Magnetic switch	2.5	25	22 in.·lbf