STARTING & CHARGING

SERVICE DATA

0315J–01

Starter assy (2.2kw)		
Starter armature assy		
Circle runout	Maximum	0.05 mm (0.0020 in.)
Commutator diameter	Standard	35.0 mm (1.378 in.)
	Minimum	34.0 mm (1.339 in.)
Undercut depth	Standard	0.7 mm (0.028 in.)
	Minimum	0.2 mm (0.008 in.)
Brush		
Brush length	Standard	16.5 mm (0.650 in.)
	Minimum	9.0 mm (0.354 in.)
Starter brush holder assy		
Brush spring load	Standard	26.5 – 32.3 N (2.7 – 3.3 kgf, 5.9 – 7.3 lbf)
	Minimum	17.6 N (1.8 kgf, 4.0 lbf)
Starter assy (2.7kw)		
Starter armature assy		
Circle runout	Maximum	0.05 mm (0.0020 in.)
Commutator diameter	Standard	36.0 mm (1.417 in.)
	Minimum	35.0 mm (1.378 in.)
Undercut depth	Standard	0.7 mm (0.028 in.)
	Minimum	0.2 mm (0.008 in.)
Brush		
Brush length	Standard	20.5 mm (0.807 in.)
	Minimum	11.0 mm (0.433 in.)
Starter brush holder assy		
Brush spring load	Standard	34.3 – 42.1 N (3.5 – 4.3 kgf, 7.7 – 9.5 lbf)
	Minimum	18.6 N (1.9 kgf, 4.2 lbf)
Generator assy (70A)		
Generator rotor assy		
Coil resistance	at 20°C (68°F)	2.1 – 2.5 Ω
Slip ring diameter	Standard	14.2 – 14.4 mm (0.559 – 0.567 in.)
	Minimum	12.8 mm (0.504 in.)
Generator brush holder assy		
Exposed brush length	Standard	10.5 mm (0.413 in.)
	Minimum	1.5 mm (0.059 in.)
Generator assy (80A)		
Generator rotor assy		
Coil resistance	at 20°C (68°F)	2.1 – 2.5 Ω
Slip ring diameter	Standard	14.2 – 14.4 mm (0.559 – 0.567 in.)
	Minimum	12.8 mm (0.504 in.)
Generator brush holder assy		
Exposed brush length	Standard	9.5 – 11.5 mm (0.374 – 0.453 in.)
	Minimum	1.5 mm (0.059 in.)