STARTING & CHARGING

0318O–01

SERVICE DATA

Starter assy (1.6KW)		
Starter armature assy		
Commutator length	Standard	3.1 mm (0.122 in.)
	Minimum	3.8 mm (0.150 in.)
Starter commutator end frame assy		
Brush holder length	Standard	9.0 mm (0.354 in.)
	Minimum	4.0 mm (0.158 in.)
Starter armature assy		
Snap ring length	Maximum	5.0 mm (0.197 in.)
Starter assy (2.0KW)		
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.)
Starter yoke		
Shunt coil resistance	at 20°C (68°F)	1.5 – 1.9 Ω
Brush		
Brush length	Standard	15.0 mm (0.591 in.)
	Minimum	9.0 mm (0.354 in.)
Starter brush holder assy		
Brush spring load	Standard	21.5 – 27.5 N (2.2 – 2.8 kgf, 4.8 – 6.2 lbf)
	Minimum	12.7 N (1.3 kgf, 2.9 lbf)
Generator assy		
Generator brush holder assy		
Brush length	Standard	9.5 – 11.5 mm (0.374 – 0.453 in.)
	Minimum	1.5 mm (0.059 in.)
Generator rotor assy		
Resistance	at 20°C (68°F)	1.7 – 2.1 Ω
Slip ring diameter	Standard	14.2 – 14.4 mm (0.559 – 0.567 in.)
	Minimum	12.8 mm (0.504 in.)