STARTING & CHARGING

SERVICE DATA

031EM–05

Starter assy		
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.)
Generator assy		
Generator brush holder assy		
Brush length	Standard	9.5 to 11.5 mm (0.374 to 0.453 in.)
	Minimum	4.5 mm (0.177 in.)
Generator rotor assy		
Resistance	at 20°C (68°F)	1.7 to 2.1 Ω
Slip ring diameter	Standard	14.2 to 14.4 mm (0.559 to 0.567 in.)
	Minimum	14.0 mm (0.551 in.)