STARTING & CHARGING

030YQ–04

SERVICE DATA

Starter assy

Starter armature assy	Commutator diameter	STD	32.8 mm (1.291 in.)
		Minimum	30.0 mm (1.181 in.)
	Commutator undercut depth	STD	0.5 – 0.8 mm (0.020 – 0.032 in.)
		Minimum	0.2 mm (0.008 in.)
Starter brush	Brush length	STD	18.0 mm (0.709 in.)
		Minimum	12.0 mm (0.472 in.)
Starter brush holder assy	Brush spring installed load	STD	42.2 – 51.0 N (4.3 – 5.2 kgf, 9.3 – 11.2 lbf)
		Minimum	22.5 N (2.3 kgf, 4.9 lbf)
Magnet starter switch assy	Pull–in coil resistance (between terminal 30 and 50)	STD	0.12 – 0.15 Ω
	Hold–in coil resistance (between terminal 50 and switch body)	STD	0.83 – 1.01 Ω
Starter clutch sub–assy	Inner sleeve diameter (A)	STD	26.0 mm (1.024 in.)
		Minimum	25.9 mm (1.020 in.)
	Starter clutch diameter (B)	STD	12.1 mm (0.476 in.)
		Minimum	12.0 mm (0.472 in.)
Drive housing	Diameter of starter drive housing bush inside	STD	26.0 mm (1.024 in.)
		Maximum	26.2 mm (1.031 in.)
Motor housing	Diameter of motor housing bush inside	STD	12.1 mm (0.476 in.)
		Maximum	12.3 mm (0.484 in.)
Starter commutator end frame assy	Diameter of end frame bush inside	STD	12.0 mm (0.472 in.)
		Maximum	12.2 mm (0.480 in.)

Generator assy

Rotor	Resistance between slip rings	STD	12.5 Ω at 20°C (68°F)
	Resistance between slip rings and rotor body at 20°C (68°F)	STD	More than 1 MΩ
		Minimum	Less than 0.5 MΩ
	Slip ring diameter	STD	34.5 mm (1.358 in.)
		Minimum	33.5 mm (1.319 in.)
Brush holder assembly	Brush exposed length	STD	21.0 mm (0.827 in.)
		Minimum	7.0 mm (0.276 in.)