16. STARTER SYSTEM

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SERVICE INFORMATION

GENERAL

· The starter motor can be removed with the engine in the frame.

SPECIFICATIONS

		STANDARD	SERVICE LIMIT
Starter motor	Brush spring tension	0.560-0.680 kg (1.23-1.50 lb)	400 g (14.1 oz)
	Brush length	12-13 mm (0.47-0.51 in)	5.5 mm (0.22 in)

TROUBLESHOOTING

Starter motor will not turn

- 1. Dead battery.
- 2. Faulty ignition switch.
- 3. Faulty starter switch.
- 4. Faulty neutral switch.
- 5. Faulty starter relay switch.
- 6. Loose or disconnected wire or cable.

Starter motor turns engine slowly

- 1. Low battery.
- 2. Excessive resistance in circuit.
- 3. Binding in starter motor.

Starter motor turns, but engine does not turn

- 1. Faulty starter clutch.
- 2. Faulty starter motor gears.
- 3. Faulty starter motor or idle gear.

Starter motor and engine turn, but engine does not start

- 1. Faulty ignition system.
- 2. Engine problems.
- 3. Faulty engine stop switch.