

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	Mituba	800 ± 120 g (28.2 ± 4.2 oz)	740 g (26 oz)
		ND	900 ± 120 g (34.2 ± 4.2 oz)	740 g (26 oz)
	Brush length	Mituba	12–12.5 mm (0.47–0.49 in)	5.5 mm (0.22 in)
		ND	11.7–12.3 mm (0.46–0.48 in)	8.5 mm (0.33 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