

Troubleshooting

- Before troubleshooting, check that no spark jumps at the spark plug using a known good spark plug (to ensure that the plug does not cause the problem).
Moreover, check for proper spark plug gap and loose spark plug wire as well as for leakage of the ignition coil secondary current caused by moisture.

No spark at plug

Unusual condition		Probable cause (Check in numerical order)
Ignition coil primary voltage	Low peak voltage.	①The multimeter impedance is too low. ②Cranking speed is too low. • Battery is undercharged or operating force of the kickstarter is weak. ③The sampling timing of the tester and measured pulse were not synchronized. (System is normal if measured voltage is over the standard voltage at least once). ④Poorly connected connectors or an open circuit in ignition system. ⑤Faulty exciter coil. (Measure the peak voltage.) ⑥Faulty ignition coil. ⑦Faulty CDI unit (in case when above No. ①-⑥ are normal).
	No peak voltage.	①Incorrect peak voltage adaptor connections. ②Faulty ignition switch. ③Loose or poorly connected CDI unit connector. ④Open circuit or poor connection in ground wire of the CDI unit. ⑤Faulty peak voltage adaptor. ⑥Faulty exciter coil. (Measure the peak voltage.) ⑦Faulty pulse generator. (Measure the peak voltage.) ⑧Faulty CDI unit (in case when above No. ①-⑦ are normal).
	Peak voltage is normal, but no spark jumps at plug.	①Faulty spark plug or leaking ignition coil secondary current. ②Faulty ignition coil.
Exciter coil	Low peak voltage.	①The multimeter impedance is too low. ②Cranking speed is too low. • Battery is undercharged or operating force of the kickstarter is weak. ③The sampling timing of the tester and measured pulse were not synchronized. (System is normal if measured voltage is over the standard voltage at least once). ④Faulty exciter coil (in case when above No. ①-③ are normal).
	No peak voltage.	①Faulty peak voltage adaptor. ②Faulty exciter coil.
Pulse generator	Low peak voltage.	①The multimeter impedance is too low. ②Cranking speed is too low. • Battery is undercharged or operating force of the kickstarter is weak. ③The sampling timing of the tester and measured pulse were not synchronized. (System is normal if measured voltage is over the standard voltage at least once). ④Faulty pulse generator (in case when above No. ①-③ are normal).
	No peak voltage.	①Faulty peak voltage adaptor. ②Faulty pulse generator.