

**STARTING SYSTEM
(ENGINE WILL NOT CRANK)**

Charge battery.
Check battery voltage.

Yes

No

TEST B
Attempt to start motorcycle.
Does solenoid engage or attempt to engage?

Inspect charging system.
Refer to **CHARGING SYSTEM** flow chart.

Yes

No

Refer to Test C

No

Does headlight turn off when starter is activated?

Yes

Refer to **STARTER BUTTON** flow chart.

Disconnect green wire from starter solenoid. Measure voltage from solenoid wire to ground when the starter is activated (It is common to have around 8 volts on the wire before the starter is activated).

Yes

No

Refer to **STARTER SOLENOID** flow chart.

TEST C
Disable ignition so motorcycle will not start. Measure DC voltage drop from starter housing to negative battery terminal while cranking.
Is the voltage drop greater than 1.0 volts?

Disable ignition so motorcycle will not start. Measure DC voltage drop across power cable from positive battery terminal to starter terminal while cranking.
Is the voltage drop greater than 1.0 volts?

No

No

Yes

Yes

Verify there are no mechanical faults in the engine or drive train. Inspect starter motor. Repair/replace as needed.

Inspect power cable and connections. Clean and repair as needed.

Inspect battery cables and connections. Verify the starter ground/mounting bolt is clean and tight. Clean and repair as needed.

15001

06004

06004

Ref. Test B

Ref. Test B