

ELECTRIC STARTER

TROUBLESHOOTING

Starter motor does not turn

1. Fuse Inspection

Check for blown main fuse or sub fuse.

Is the fuse blown?

YES – Replace the fuse

NO – GO TO STEP 2.

2. Battery Inspection

Make sure the battery is fully charged and in good condition.

Is the battery in good condition?

YES – GO TO STEP 3.

NO – Replace the battery

3. Starter Relay Switch Operation

Check the starter relay switch operation.

You should hear the relay "CLICK" when the starter switch button is depressed.

Is there a "CLICK"?

YES – GO TO STEP 4.

NO – GO TO STEP 5.

4. Starter Motor Inspection

Apply battery voltage to the starter motor directly and check the operation.

Does the starter motor turn?

YES – • Poorly connected starter motor cable
• Faulty starter relay switch (page 19-12)

NO – Faulty starter motor (page 19-6)

5. Relay Coil Ground Wire Lines Inspection

Disconnect the starter relay switch connector, and check the relay coil ground wire lines as below for continuity:

1. Green/red terminal – clutch switch diode – neutral switch line (with the transmission in neutral and clutch lever released).
2. Green/red terminal – clutch switch – side stand switch line (in any gear except neutral, and with the clutch lever pulled in and the side stand up).

Is there continuity?

NO – • Faulty neutral switch (page 20-22)
• Faulty neutral diode (page 19-14)
• Faulty clutch diode (page 19-14)
• Faulty clutch switch (page 20-21)
• Faulty side stand switch (page 20-22)
• Loose or poor contact connector
• Open circuit in wire harness

YES – GO TO STEP 6.

6. Starter Relay Voltage Inspection

Connect the starter relay switch connector.

With the ignition switch ON and the starter switch pushed, measure the voltage at the starter relay switch connector (between Yellow/red (+) and body ground (-)).

Is the starter relay switch operation correct?

NO – • Faulty ignition switch (page 20-19)
• Faulty starter switch (page 20-20)
• Faulty engine stop switch (page 20-20)
• Loose or poor contact connector
• Open circuit in wire harness

YES – GO TO STEP 7.