Troubleshooting

Starter motor will not turn

- Check for a blown out main or sub fuses before servicing.
- Make sure the battery is fully charged and in good condition.

Check for loose or poorly connected battery terminals, and opened or shorted battery cable.
- Abnormal → Poorly connected battery terminals; Open or short circuit in battery cable
- Normal ↓

Check for loose or poorly connected starter relay switch terminals and 4P connector.
- Abnormal → Poorly connected terminals of 4P connector
- Normal ↓

Check for loose or poorly connected starter motor cable, and opened cable.
- Abnormal → Poorly connected motor cable; Open circuit in motor cable
- Normal ↓

With the ignition switch "ON", push the starter switch and check for a "click" sound from the starter relay switch.
- Clicks → Connect the starter motor terminal to the battery positive terminal directly.(Because a large amount of current flows, do not use thin wires)
  - Starter motor turns → Loose or disconnected starter motor cable; Faulty starter relay switch
  - Starter motor does not turn → Faulty starter motor
- No Click ↓

Disconnect 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 transmission into 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.)

- No Continuity → Faulty neutral switch; Faulty clutch switch diode; Faulty clutch switch; Faulty side stand switch; Loose or poor contact of connector; Open circuit in wire harness
- Continuity ↓

Connect the starter relay switch connector. With the ignition switch ON and the starter switch pushed, measure the starter relay voltage at the starter switch connector (between Yellow/Red (+) and ground (−)).
- No Voltage → Faulty ignition switch; Faulty starter switch; Blown out main or sub fuses; Loose or poor contact of connector; Open circuit in wire harness
- Voltage Appeared ↓

Check the starter relay switch operation.
- Normal → Loose or poor contact of the starter relay switch connector
- Abnormal → Faulty starter relay switch