

10. Starter/charging Relay Coil Line Inspection

Turn the ignition switch OFF.

Install the starter/charging relay (page 6-7).

Disconnect the ECM 21P (Black) connector.

Turn the ignition switch ON.

Measure the battery voltage between the ECM 21P (Black) connector and ground.

CONNECTION: Yellow (+) – Ground (–)

Does the battery voltage exist?

YES – Replace the ECM with a new one and recheck.

NO –

- Loose or poorly connected connector.
- Open circuit in Black/white wire between the ignition switch and engine stop switch.
- Open circuit in Black/green wire between the engine stop switch and starter/charging relay.
- Open circuit in Yellow wire between the starter/charging relay and ECM.
- Faulty engine stop switch (page 21-15).

Alternator/starter turns engine slowly

- Low battery voltage.
- Poorly connected battery terminal cable.
- Crankshaft slowly turn due to engine problems.
- Poor connected battery ground cable.

Starter/charging relay "CLICK", but engine does not turn

- Crankshaft does not turn due to engine problems.