DTC P068A00, P068B00

1. DTC Description

DTC	Description	Faulty Area
P068A00	Early Opening Defect of Main Relay	• ECU
P068B00	DFC for Stuck Main Relay Error	Wiring harness and connector Main relay

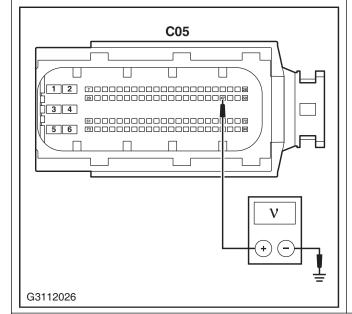
2. Diagnosis Procedure

Test Conditions	Details/Results/Actions
General inspection	
	A. Inspect ECU wiring harness connector C05 for looseness, aging and poor contact, etc.
	Is it normal?
	Yes
	Go to step 2.
	No
	Repair the faulty area.
2. Inspect fuse	
	A. Inspect the main relay fuse EF18.
	Fuse rated capacity: 30 A
	Is fuse normal?
	Yes
	Go to step 3.
	No
	Inspect and repair the fuse circuit, and replace the fuse with rated capacity.
Inspect main relay	
	A. Turn the ignition switch to "LOCK" position.
B. Unplug the main relay ER01.	
	C. Measure resistance between terminals 85 and 86 of main relay ER01.
	Standard resistance: 70 ~ 90 Ω
	Is resistance normal?
	Yes
	Go to step 4.
	No
	Replace the main relay ER01.

Test Conditions

Details/Results/Actions

4. Inspect main relay control signal



- A. Turn the ignition switch to "LOCK" position.
- B. Install the main relay ER01.
- C. Turn the ignition switch to ON.
- D. Measure voltage between terminal 47 of ECU wiring harness connector C05 and cabin ground with a multimeter.

Standard voltage: 0 ~ 1.6 V

Is voltage normal?

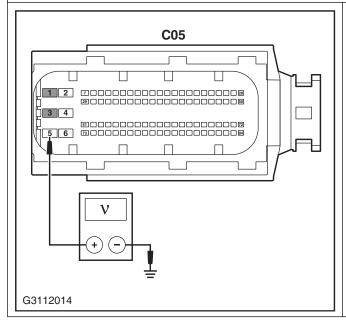
Yes

Go to step 5.

No

Inspect the ECU control main relay control circuit.

5. Inspect engine control module power supply circuit



- A. Turn the ignition switch to "LOCK" position.
- B. Measure from back side of ECU wiring harness connector C05.
- C. Turn ignition switch to "ON", and measure voltage between terminals 1, 3 and 5 and reliable ground.

Standard voltage: 11 ~ 14 V

Is measurement normal?

Yes

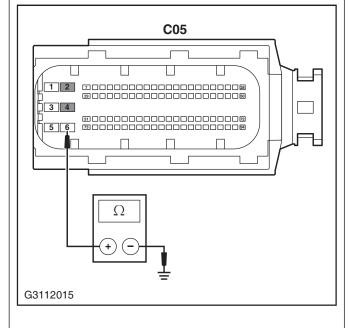
Go to step 11.

No

Inspect and repair ECU power supply circuit.

Test Conditions

6. Inspect engine control module ground circuit



Details/Results/Actions

- A. Turn the ignition switch to "LOCK" position.
- B. Measure from back side of ECU wiring harness connector C05.
- C. Measure resistance between terminals 2, 4 and 6 of ECU wiring harness connector C05 and reliable ground with a multimeter.

Standard resistance: Less than 5 Ω

Is measurement normal?

Yes

Replace the engine control module.

Refer to: Engine Control Module (3.1.13 Electronic Control System, Removal and Installation).

No

Inspect and repair ECU ground circuit.