

Ignition OFF.

Disconnect Generator C102B .

Disconnect Generator C102A .

Start the engine.

Allow the engine to idle.

Is the interference present with the generator disconnected?

Yes	REFER to: Information and Entertainment System (without touchscreen) , or REFER to: Information and Entertainment System (with touchscreen) .
No	INSTALL a new generator. REFER to: Generator - 2.3L EcoBoost (201kW/273PS) .

DIAGNOSIS AND TESTING > CHARGING SYSTEM - 2.3L ECOBOOST (201KW 273PS) > PINPOINT TESTS (2.3L) > PINPOINT TEST E : GENERATOR CURRENT SENSOR FAULTS

Refer to Power Distribution for schematic and connector information.

Normal Operation and Fault Conditions

The generator current sensor is a Hall-effect sensor attached to the generator B+ cable. It is supplied a 5 volt reference and ground from the PCM. The PCM reads the generator current sensor feedback voltage to determine how much current is flowing through the generator B+ cable.

Diagnostic Trouble Code (DTC) Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
P0A5A	Generator Current Sensor Circuit Range/Performance	Sets in the PCM when the PCM does not detect current through the generator current sensor and there are no generator current sensor circuit Diagnostic Trouble Codes (DTCs) set.
P0A5B	Generator Current Sensor Circuit Low	Sets in the PCM when the PCM senses lower than expected voltage on the generator current sensor feedback circuit, indicating an open or a short directly to ground.
P0A5C	Generator Current Sensor Circuit High	Sets in the PCM when the PCM senses higher than expected voltage on the generator current sensor feedback circuit, indicating a short directly to voltage.