

COOLING FAN SYSTEM

ON-VEHICLE INSPECTION

160C6-02

1. CHECK COOLING FAN OPERATION WITH LOW TEMPERATURE (Below 83°C (181°F))

- (a) Turn the ignition switch ON.
- (b) Check that the cooling fan stops.

HINT:

If not, check the cooling fan relay and water temperature sensor, and check for separated connector or severed wire between the cooling fan relay and water temperature sensor.

- (c) Disconnect the water temperature sensor connector.
- (d) Check that the cooling fan rotates.

If not, check the fuses, cooling fan relay, ECM and cooling fan, and check for a short circuit between the cooling fan relay and water temperature sensor.

- (e) Reconnect the water temperature sensor connector.

2. CHECK COOLING FAN OPERATION WITH HIGH TEMPERATURE (Above 93°C (199°F))

- (a) Start the engine, and raise coolant temperature to above 93°C (199°F).

HINT:

Coolant temperature is the detected value by the water temperature sensor on the water outlet.

- (b) Check that the cooling fan rotates.

HINT:

If not, replace the water temperature sensor.

3. INSPECT COOLING FAN

- (a) Disconnect the cooling fan connector.
- (b) Connect battery and ammeter to the connector.
- (c) Check that the cooling fan rotates smoothly, and check the reading on the ammeter.

Standard amperage:

Approx. 8.0 – 12.0 A at 20°C (68°F)

- (d) Reconnect the cooling fan connector.