

COOLING FAN SYSTEM

ON-VEHICLE INSPECTION

1600F-01

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

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

If not, check the cooling fan relay and engine coolant temperature sensor. Check for disconnection or circuit open between them.

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

If not, check the fuses, cooling fan relay, ECM and cooling fan. Check for short in a circuit between the cooling fan relay and engine coolant temperature sensor.

- (e) Reconnect the engine coolant temperature sensor connector.

2. CHECK COOLING FAN OPERATION AT A 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 detected by the engine coolant temperature sensor on the water outlet.

- (b) Check that the cooling fan rotates.

If not, replace the engine coolant temperature sensor.

3. INSPECT COOLING FAN

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

Standard amperage: 11.7 to 14.7 A

- (d) Reconnect the cooling fan connector.