

COOLING FAN SYSTEM (2AZ-FE)

ON-VEHICLE INSPECTION

1600R-17

HINT:

It is normal that the cooling fan sometime rotates when the ignition switch is turned from ACC to ON.

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

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

If not, check the cooling fan relay and engine coolant temperature sensor, then check for disconnection of the connectors or wire break between the cooling fan relay and engine coolant temperature sensor.

- (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, then check for short in the circuit between the cooling fan relay and engine coolant temperature sensor.

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

2. CHECK COOLING FAN OPERATION WITH HIGH TEMPERATURE (Above 98°C (208°F))

- (a) Start the engine, then raise coolant temperature to above 98°C (208°F).
- (b) Check that the cooling fan rotates.

If not, replace the engine coolant temperature sensor.

3. INSPECT COOLING FAN

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

Standard amperage:

9.5 to 15.5 A at 20°C (68°F)

- (d) Reconnect the cooling fan connector.