

COOLING FAN SYSTEM (2AZ-FE)

ON-VEHICLE INSPECTION

HINT:

The cooling fan may rotate when the ignition switch is turned from ACC to ON. This is normal.

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.

If not, check the cooling fan relay and ECT sensor, and check for disconnected connector or wire breaks between the cooling fan relay and ECT sensor.

- (c) Disconnect the ECT 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 ECT Sensor..

- (e) Reconnect ECT sensor connector.

2. CHECK COOLING FAN OPERATION WITH HIGH TEMPERATURE (Above 90°C (194°F))

- (a) Start the engine, and raise ECT to above 90°C (194°F).
- (b) Check that the cooling fan rotates.

If not, replace the ECT sensor.

3. INSPECT COOLING FAN

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

Standard amperage: 5.2 to 8.2 A at 20°C (68°F)

If not, replace the cooling fan.

- (d) Reconnect the cooling fan connector.