COOLING FAN SYSTEM (3MZ–FE)

16097–02

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 switches, and check for disconnected connectors and wire breaks between the cooling fan relay and ECT switches.

(c) Disconnect the ECT switch No. 1 connector.

(d) Connect the terminals on the ECT switch No. 1 connector.

(e) Check that the No. 1 cooling fan rotates at a high speed.

If not, check the No. 1 cooling fan relay and No. 1 cooling fan.

(f) Reconnect the ECT switch No. 1 connector.

(g) Disconnect the ECT switch No. 2 connector.

(h) Ground the terminal on the ECT switch No. 2 wire harness side connector.

(i) Check that the No. 1 and No. 2 cooling fans rotate at a low speed.

If not, check the No. 2 cooling fan relay, No. 3 cooling fan relay and No. 2 cooling fan.

(j) Reconnect the ECT switch No. 2 connector.

2. INSPECT COOLING FAN

(a) Disconnect the cooling fan connector.

(b) Connect the 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: 8.5 to 11.5 A at 20°C (68°F)

If not, replace the cooling fan.

(d) Reconnect the cooling fan connector.