

ON-VEHICLE INSPECTION

HINT:

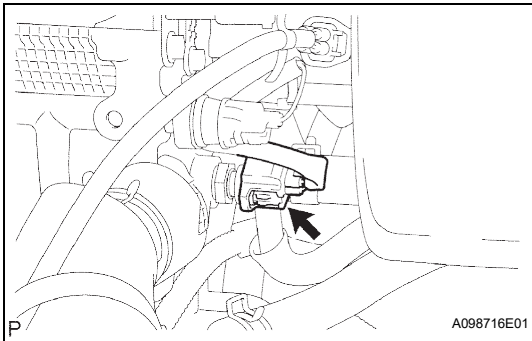
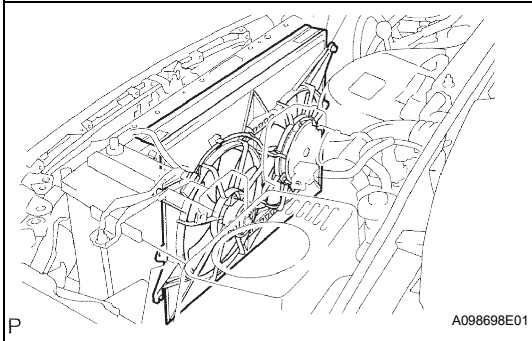
It is normal for the cooling fan to sometimes rotate when the ignition switch is turned from ACC to ON.

1. CHECK COOLING FAN OPERATION AT LOW TEMPERATURES (Below 94°C (201°F))

(a) Turn the ignition switch ON with the A/C switch OFF.

(b) Check that the cooling fan stops.

If not, check the cooling fan relays and engine coolant temperature sensor, and then check for disconnection of the connector 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 relays, ECM and cooling fan, and then check for a short circuit between the cooling fan relay and engine coolant temperature sensor.

(e) Reconnect the engine coolant temperature sensor connector.

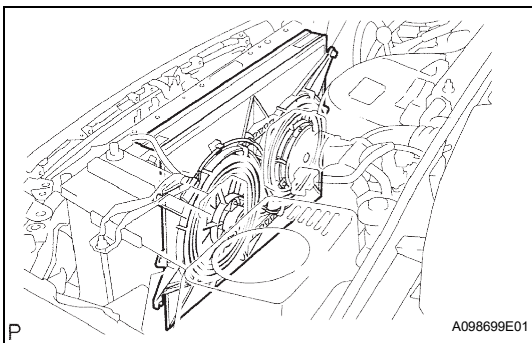
2. CHECK COOLING FAN OPERATION AT HIGH TEMPERATURES (Above 96°C (205°F))

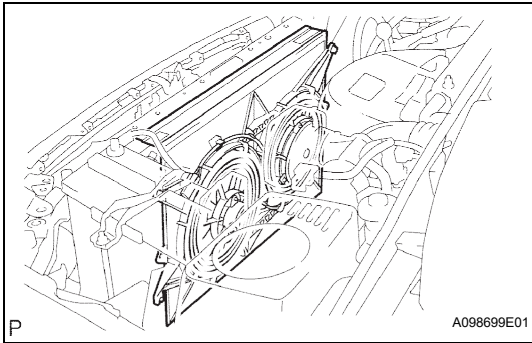
(a) Start the engine, and then raise the coolant temperature to above 96°C (205°F).

HINT:

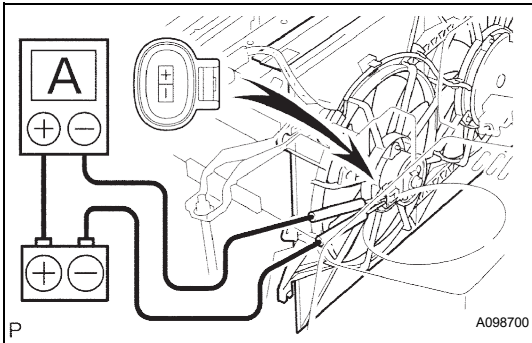
Coolant temperature is the value detected by the engine coolant temperature sensor on the cylinder head.

(b) Check that the A/C switch is OFF.





- (c) Check that the cooling fan rotates.
If not, replace the engine coolant temperature sensor.



3. INSPECT NO. 1 COOLING FAN

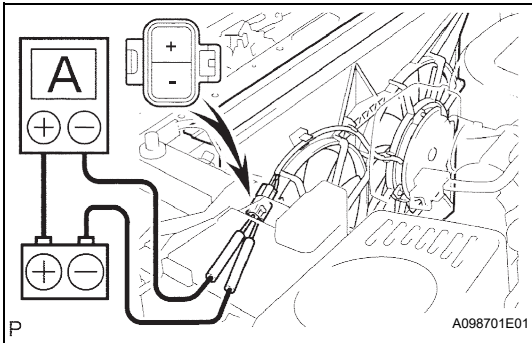
- (a) Disconnect the No. 1 fan connector.
(b) Connect the battery and ammeter to the No. 1 fan connector.
(c) Check that the No. 1 fan rotates smoothly, and then check the reading on the ammeter.

Standard amperage:

5.2 to 8.2 A at 20°C (68°F)

If the result is not as specified, replace the cooling fan motor.

- (d) Reconnect the No. 1 fan connector.



4. INSPECT NO. 2 COOLING FAN

- (a) Disconnect the No. 2 fan connector.
(b) Connect the battery and ammeter to the No. 2 fan connector.
(c) Check that the No. 2 fan rotates smoothly, and then check the reading on the ammeter.

Standard amperage:

5.2 to 8.2 A at 20°C (68°F)

If the result is not as specified, replace the cooling fan motor.

- (d) Reconnect the No. 2 fan connector.