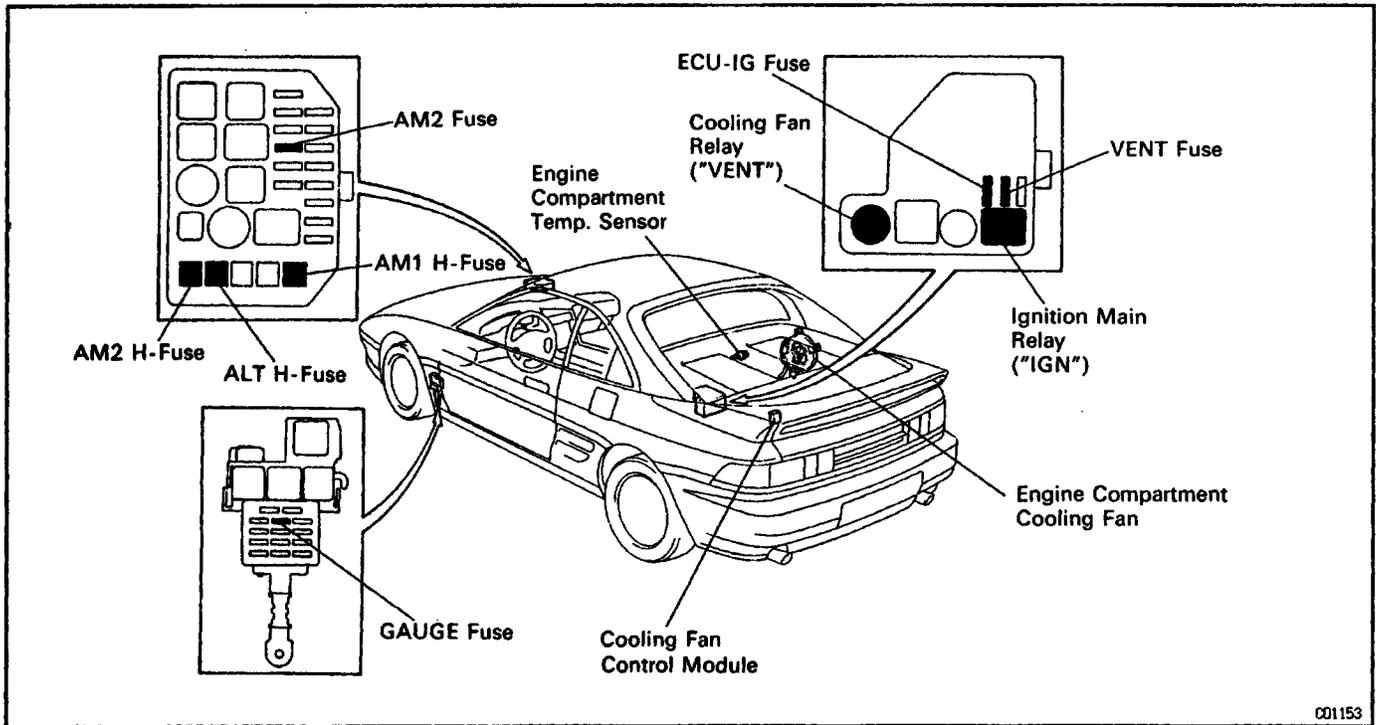


ENGINE COMPARTMENT ELECTRIC COOLING FAN Parts Location

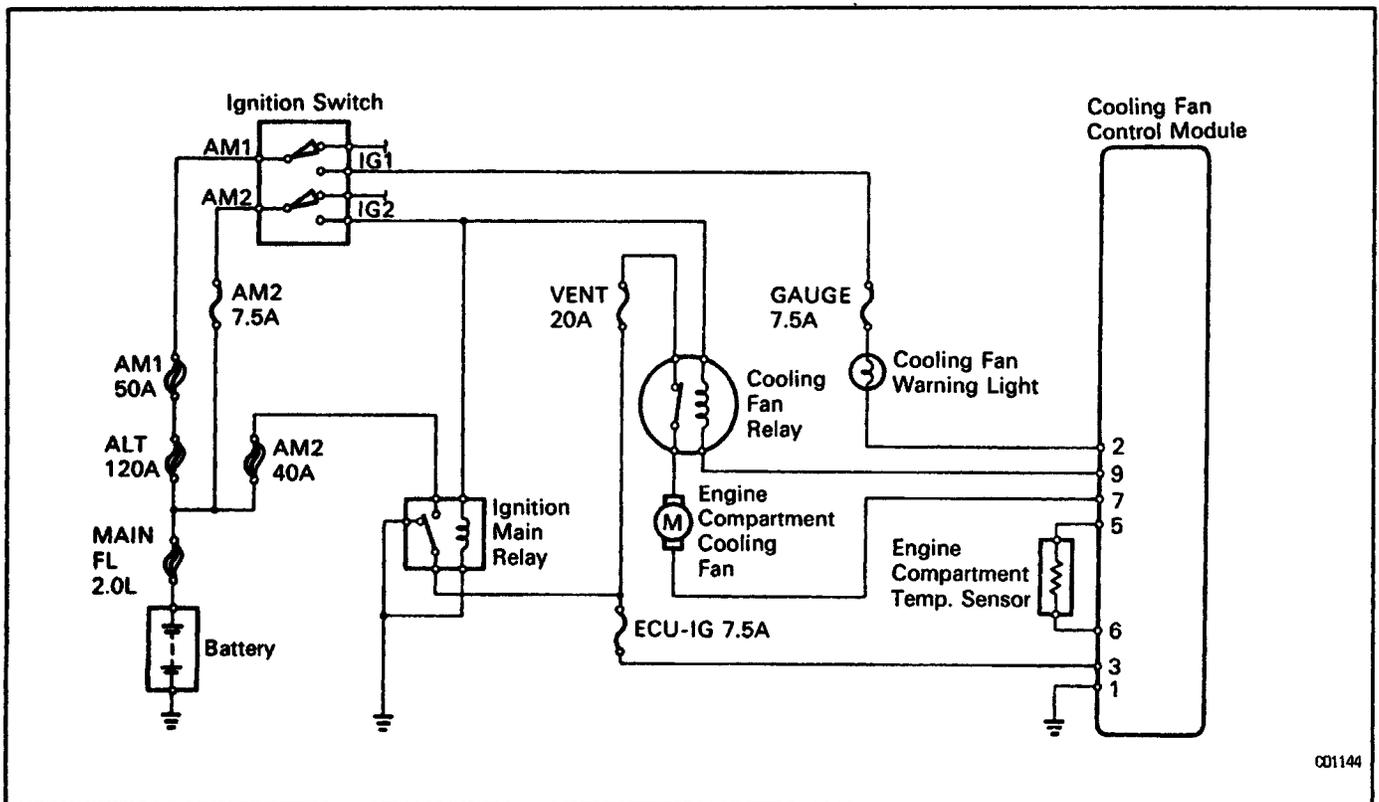
EG078-04



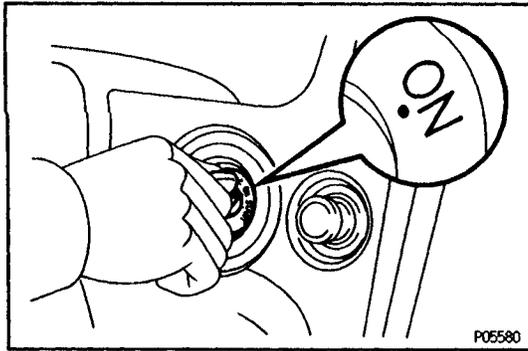
001153

System Circuit

EG076-04



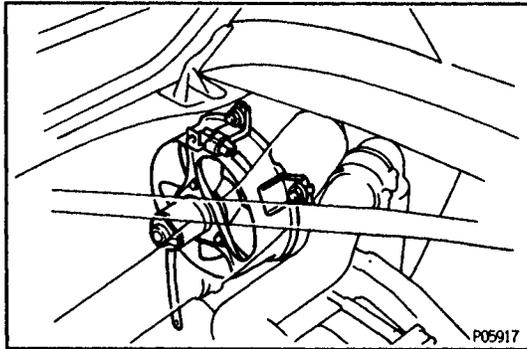
001144



On-Vehicle Inspection

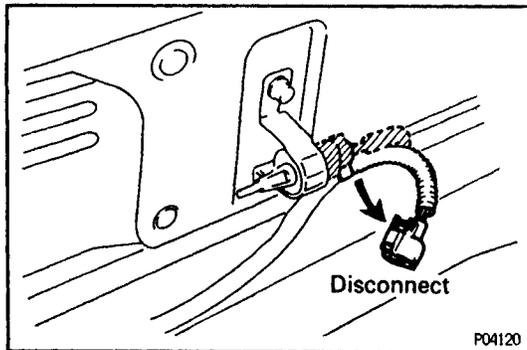
1. CHECK COOLING FAN OPERATION WITH LOW TEMPERATURE (Below 45.5°C (113.9°F))

(a) Turn the ignition switch ON.

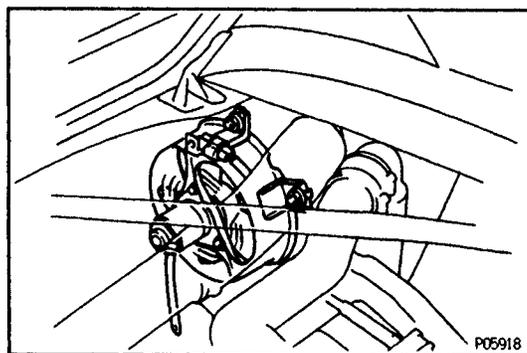


(b) Check that the cooling fan stops.

If not, check the cooling fan relay and engine coolant temperature switch, and check for a separated connector or severed wire between the cooling fan relay and engine compartment temperature sensor.



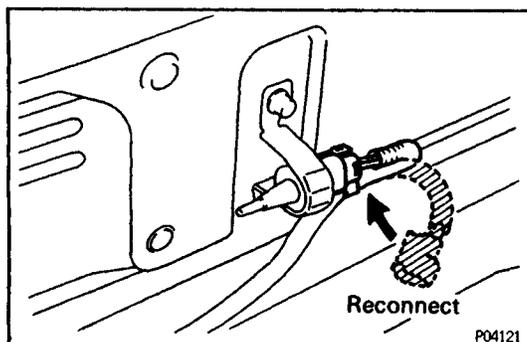
(c) Disconnect the engine compartment temperature sensor.



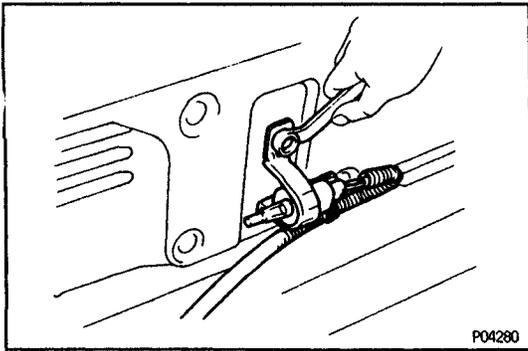
(d) Check that the cooling fan rotates.

If not, check the fan main relay, cooling fan relay, fan control module, cooling fan, fuses, and check for short circuit between the cooling fan relay and engine compartment temperature sensor.

(e) Turn the ignition switch OFF.

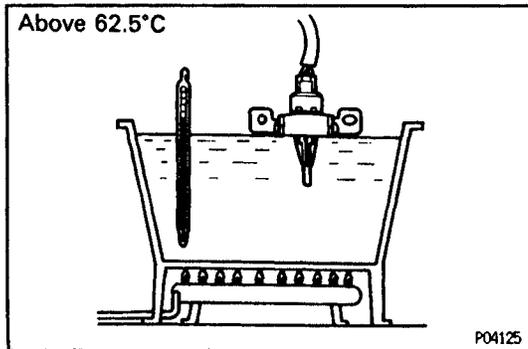


(f) Reconnect the engine compartment temperature sensor.

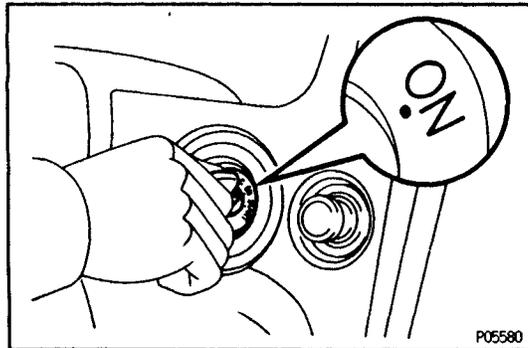


2. CHECK COOLING FAN OPERATION WITH HIGH TEMPERATURE (Above 62.5°C (144.5°F))

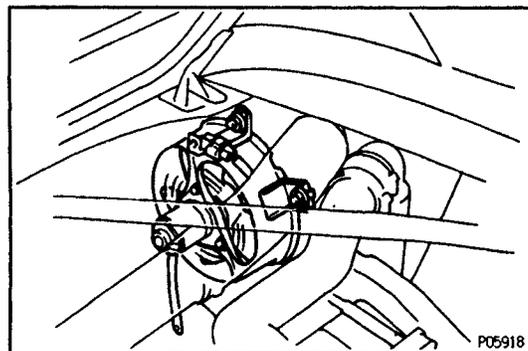
(a) Remove the two bolts, and disconnect the engine compartment temperature sensor from the engine hood.



(b) Heat the engine compartment temperature sensor to above 62.5°C (144.5°F).

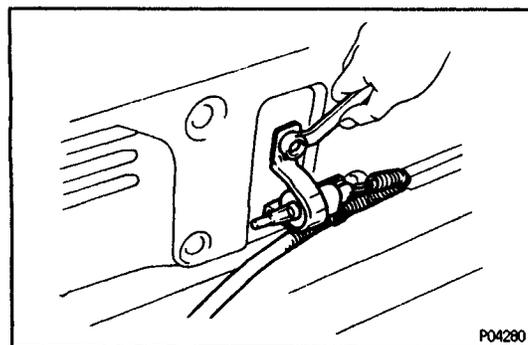


(c) Turn the ignition switch ON.



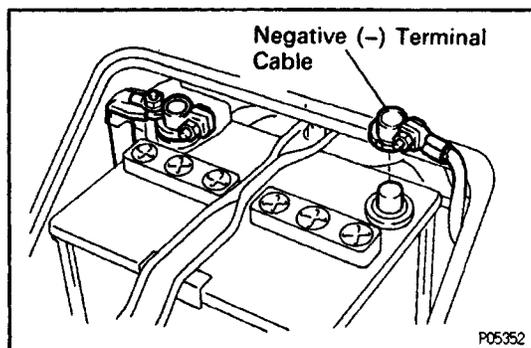
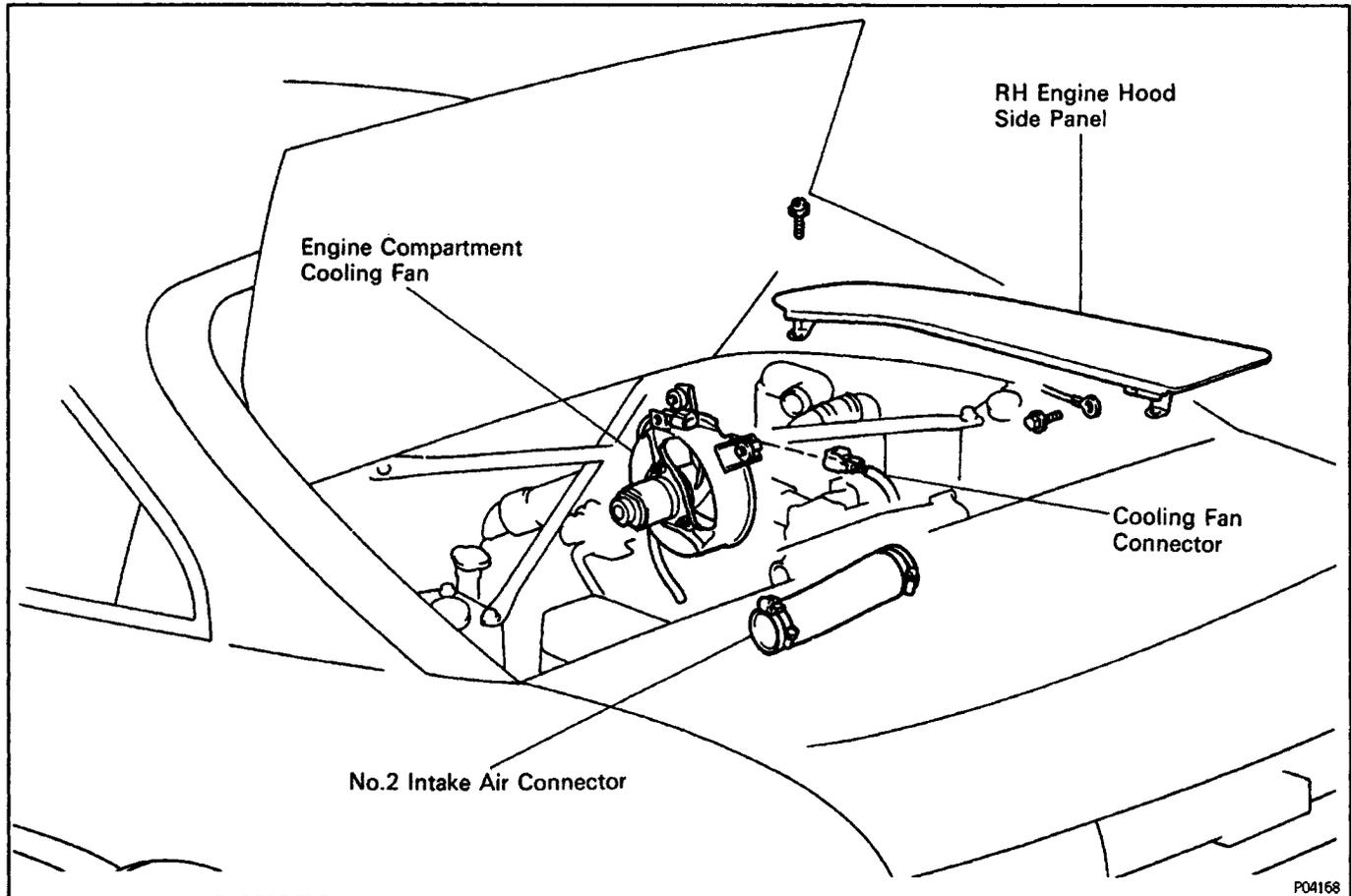
(d) Check that the cooling fan rotates.

If not, replace the engine compartment temperature switch.



(e) Reinstall the engine compartment temperature sensor with the two bolts.

Cooling Fan COMPONENTS FOR REMOVAL AND INSTALLATION

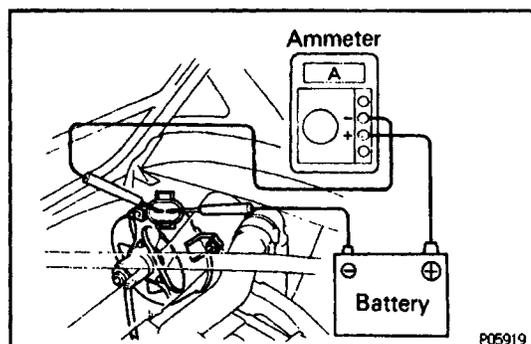


COOLING FAN INSPECTION

80106-01

1. DISCONNECT CABLE FROM NEGATIVE TERMINAL OF BATTERY

CAUTION: Turn the Ignition switch to "LOCK". Disconnect the cable from the negative terminal of the battery. Wait at least 20 seconds before proceeding with work.



2. INSPECT COOLING FAN

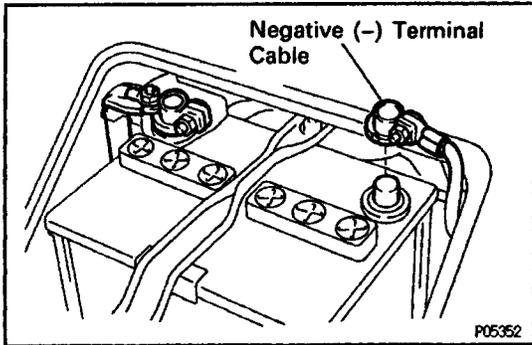
- Disconnect the cooling fan connector.
- Connect battery and ammeter to the cooling fan connector.
- Check that the cooling fan rotates smoothly, and check the reading on the ammeter.

Standard amperage:

3.1 - 4.3 A

- Reconnect the cooling fan connector.

3. RECONNECT CABLE TO NEGATIVE TERMINAL OF BATTERY



COOLING FAN REMOVAL

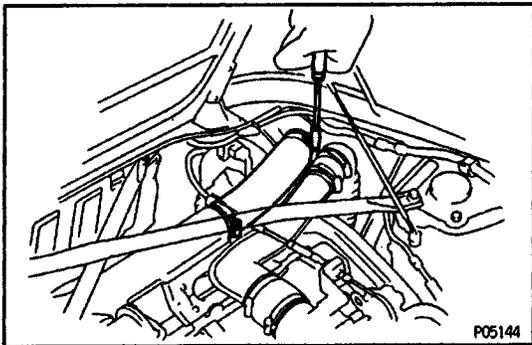
0810M-01

(See Components for Removal and Installation)

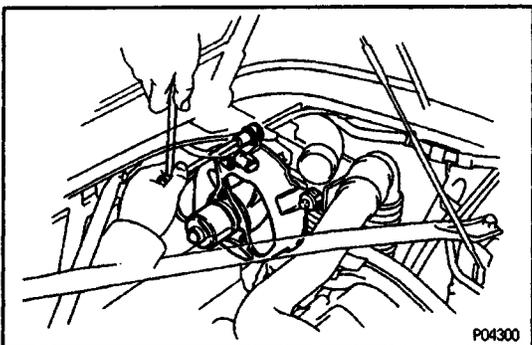
1. DISCONNECT CABLE FROM NEGATIVE TERMINAL OF BATTERY

CAUTION: Turn the ignition switch to 'LOCK'. Disconnect the cable from the negative terminal of the battery. Wait at least 20 seconds before proceeding with work.

2. REMOVE RH ENGINE HOOD SIDE PANEL



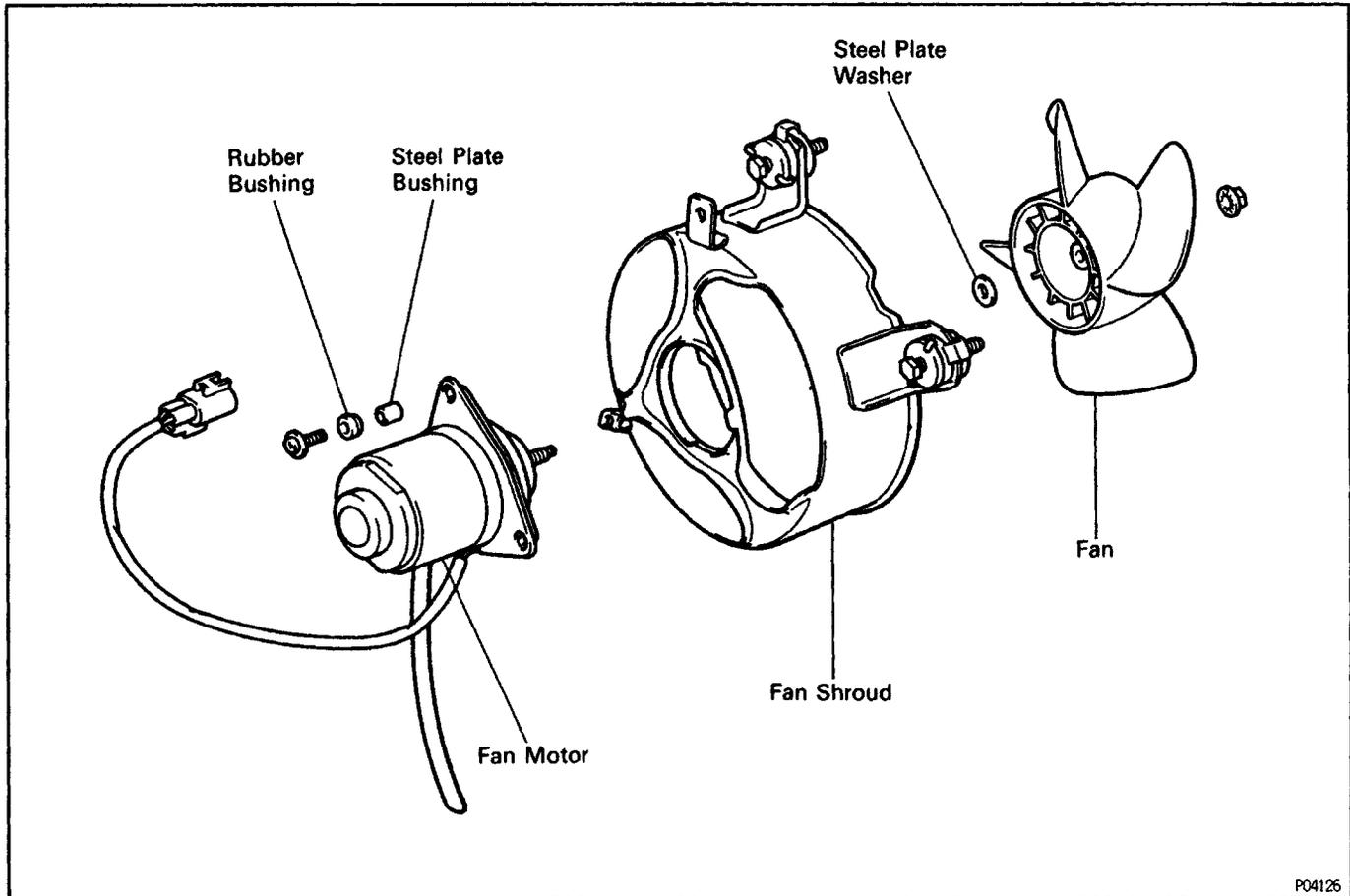
3. REMOVE NO.2 INTAKE AIR CONNECTOR



4. REMOVE COOLING FAN

- Disconnect the cooling fan connector.
- Loosen the three bolts, and remove the cooling fan.

COMPONENTS FOR DISASSEMBLY AND ASSEMBLY



P04126

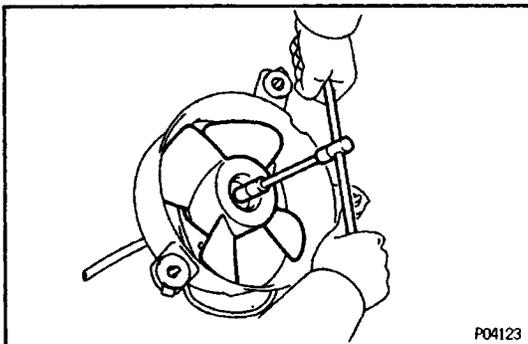
E010N-01

COOLING FAN DISASSEMBLY

(See Components for Disassembly and Assembly)

1. REMOVE FAN

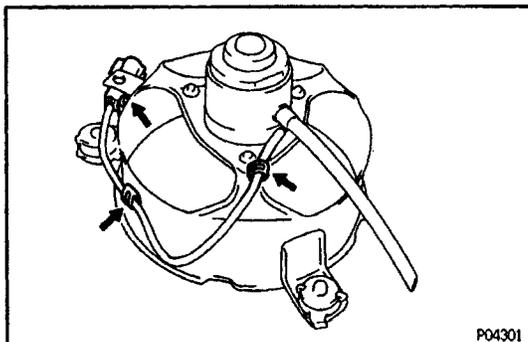
Remove the nut, fan and steel plate washer.



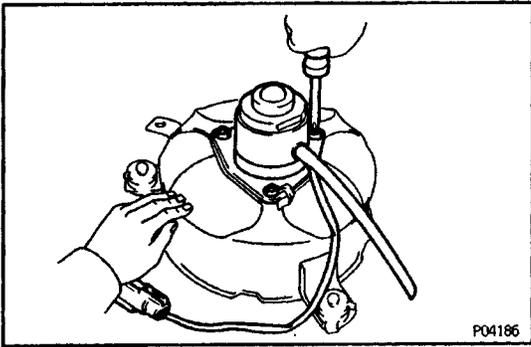
P04123

2. REMOVE FAN MOTOR

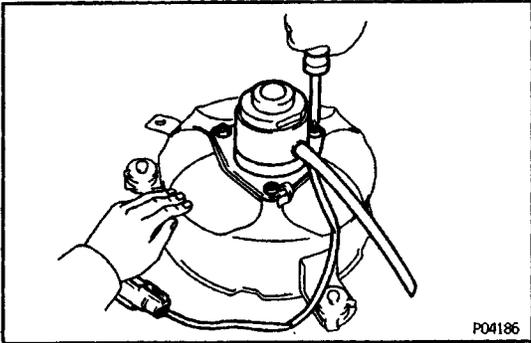
(a) Disconnect the wire and connector from the fan shroud.



P04301



- (b) Remove the three screws, rubber bushings, steel plate bushings and motor.



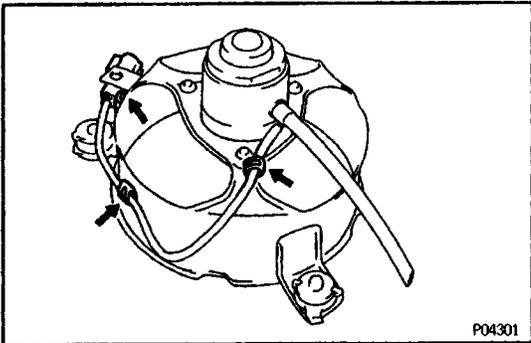
COOLING FAN ASSEMBLY

BB10P-01

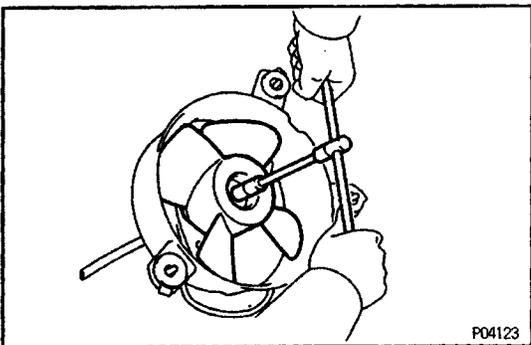
(See Components for Disassembly and Assembly)

1. INSTALL FAN MOTOR

- (a) Install the fan motor with the three steel plate bushings, rubber bushings and screws.

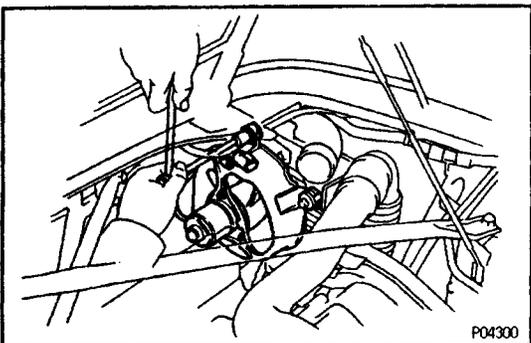


- (b) Install the wire and connector to the fan shroud.



2. INSTALL FAN

Install the fan with the steel plate washer and nut.



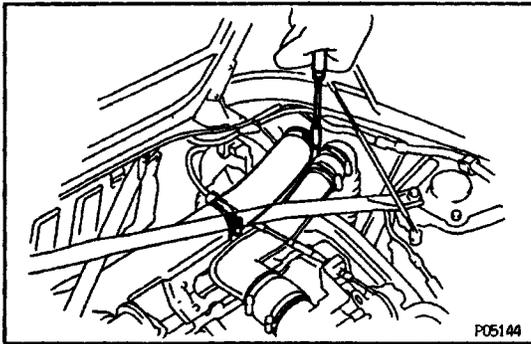
COOLING FAN INSTALLATION

BB10Q-01

(See Components for Disassembly and Assembly)

1. INSTALL COOLING FAN

- (a) Install the cooling fan with the three bolts.
 (b) Connect the cooling fan connector.

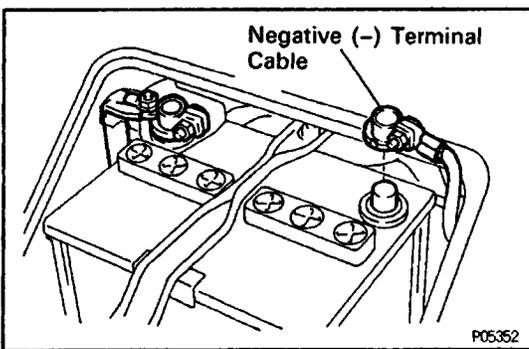
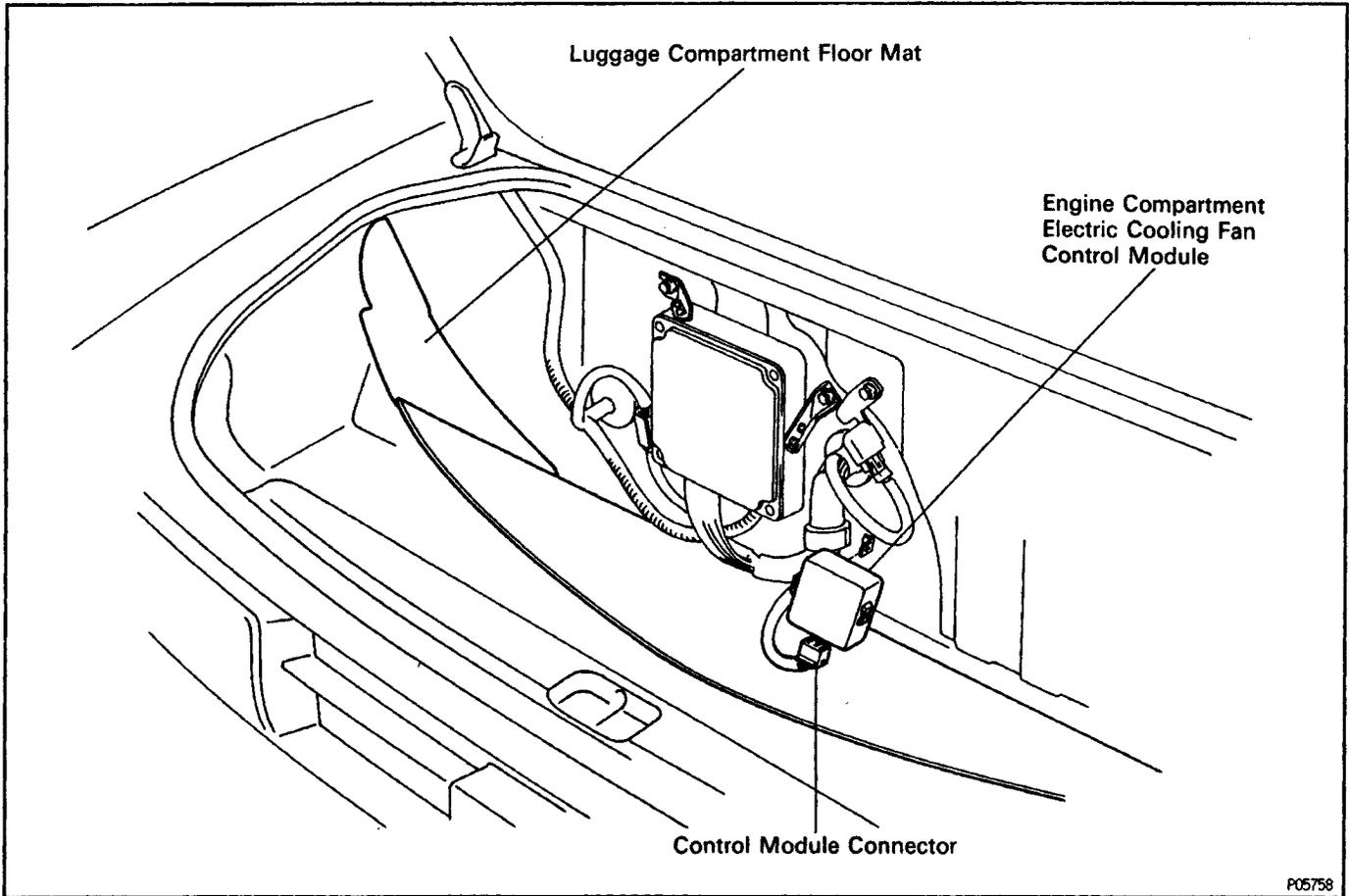


2. INSTALL NO.2 INTAKE AIR CONNECTOR

- 3. INSTALL RH ENGINE HOOD SIDE PANEL**
- 4. CONNECT CABLE TO NEGATIVE TERMINAL OF BATTERY**

80078-07

Cooling Fan Control Module CONTROL MODULE FOR REMOVAL AND INSTALLATION



COOLING FAN CONTROL MODULE INSPECTION

80108-01

(See Components for Removal and Installation)

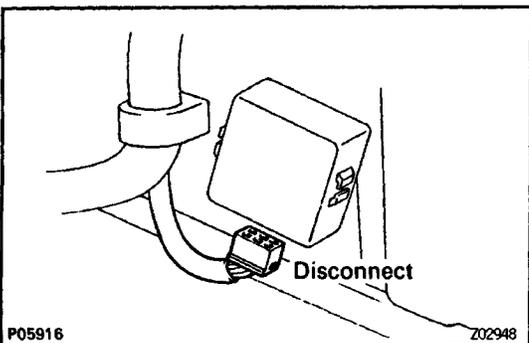
1. DISCONNECT CABLE FROM NEGATIVE TERMINAL OF BATTERY

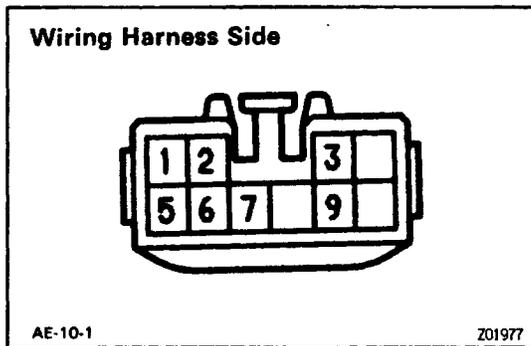
CAUTION: Turn the ignition switch to 'LOCK'. Disconnect the cable from the negative terminal of the battery. Wait at least 20 seconds before proceeding with work.

2. DISCONNECT FRONT SIDE OF LUGGAGE LUGGAGE COMPARTMENT FLOOR MAT FROM PARTITION PANEL

3. INSPECT COOLING FAN CONTROL MODULE

(a) Disconnect the fan control module connector.

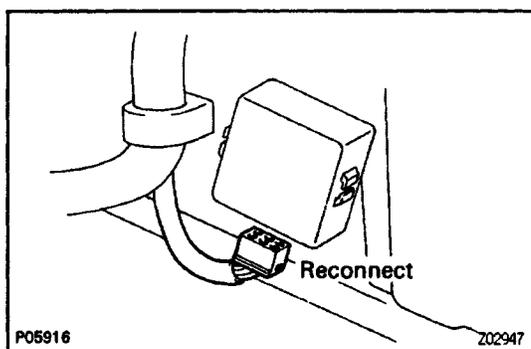




(b) Check the connector on the wiring harness side as shown in the chart.

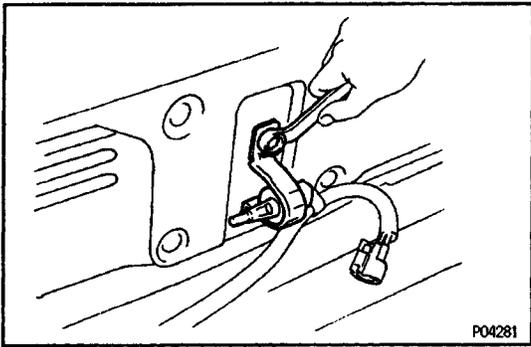
Check for	Tester connection	Condition		Specified value
Continuity	1 – Ground	-		Continuity
Voltage	2 – Ground	Ignition switch ON		Battery voltage
Voltage	3 – Ground	Ignition switch ON		Battery voltage
Resistance	5–6	Coolant temp.	20°C (88°F)	Approx. 2.45 kΩ
			57.5°C (135.5°F)	Approx. 0.63 kΩ
			80°C (176°F)	Approx. 0.32 kΩ
Voltage	7 – Ground	Ignition switch ON		Battery voltage
Continuity	9 – Ground	Ignition switch ON		Battery voltage

V00874



(c) Reconnect the fan control module connector.

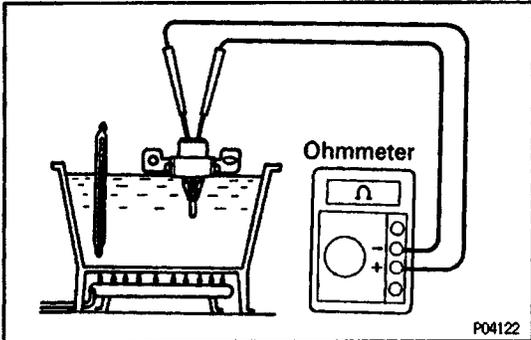
4. REINSTALL LUGGAGE COMPARTMENT FLOOR MAT
5. RECONNECT CABLE TO NEGATIVE TERMINAL OF BATTERY



Engine Compartment Temperature Sensor ENGINE COMPARTMENT TEMPERATURE SENSOR INSPECTION

1. REMOVE ENGINE COMPARTMENT TEMPERATURE SENSOR

- (a) Disconnect the sensor connector.
- (b) Remove the two bolts and sensor.



2. INSPECT ENGINE COMPARTMENT TEMPERATURE SENSOR

Using an ohmmeter, measure the resistance between the terminals.

Resistance:

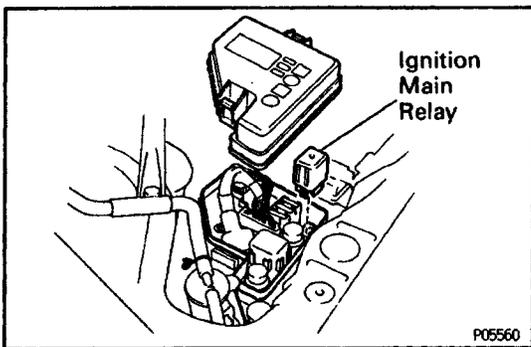
Approx. 2.45 k Ω at 20°C (68°F)

Approx. 0.63 k Ω at 57.5°C (135.5°F)

Approx. 0.32 k Ω at 80°C (176°F)

If resistance is not as specified, replace the sensor.

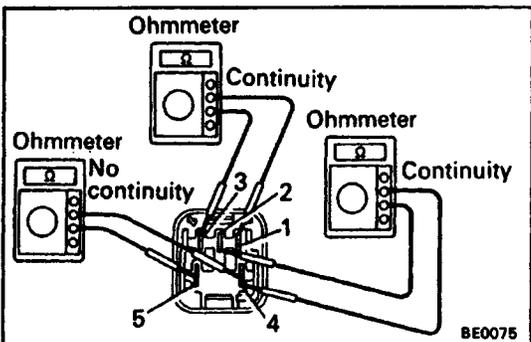
3. REINSTALL ENGINE COMPARTMENT TEMPERATURE SENSOR



Ignition Main Relay ('IGN') IGNITION MAIN RELAY INSPECTION

80107-01

1. REMOVE IGNITION MAIN RELAY

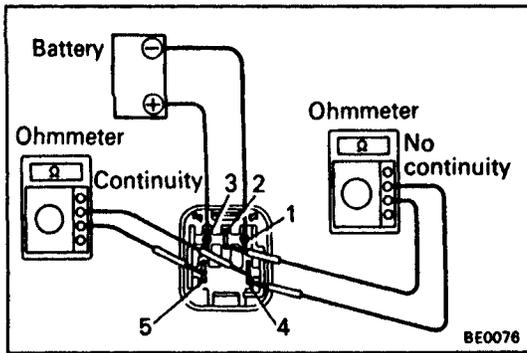


2. INSPECT IGNITION MAIN RELAY

A. Inspect relay continuity

- (a) Using an ohmmeter, check that there is continuity between terminals 1 and 3.
- (b) Check that there is continuity between terminals 2 and 4.
- (c) Check that there is no continuity between terminals 4 and 5.

If continuity is not as specified, replace the relay.

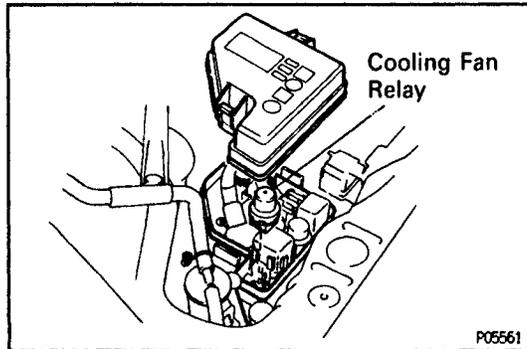


B. Inspect relay operation

- Apply battery voltage across terminals 1 and 3.
- Using an ohmmeter, check that there is no continuity between terminals 2 and 4.
- Check that there is continuity between terminals 4 and 5.

If operation is not as specified, replace the relay.

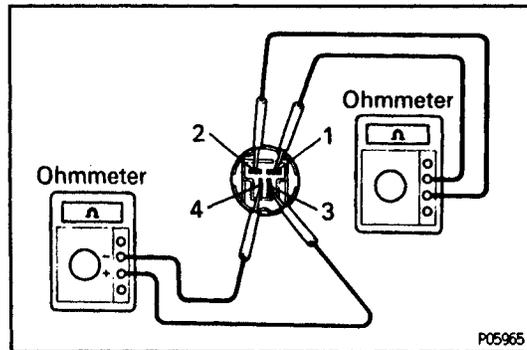
3. REINSTALL IGNITION MAIN RELAY



Cooling Fan Relay ('VENT') COOLING FAN RELAY INSPECTION

06100-01

1. REMOVE COOLING FAN RELAY

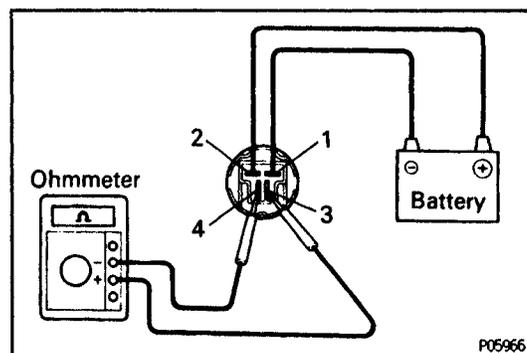


2. INSPECT COOLING FAN RELAY

A. Inspect relay continuity

- Using an ohmmeter, check that there is continuity between terminals 1 and 2.
- Check that there is continuity between terminals 3 and 4.

If continuity is not as specified, replace the relay.



B. Inspect relay operation

- Apply battery voltage across terminals 1 and 2.
- Using an ohmmeter, check that there is no continuity between terminals 3 and 4.

If operation is not as specified, replace the relay.

3. REINSTALL COOLING FAN RELAY