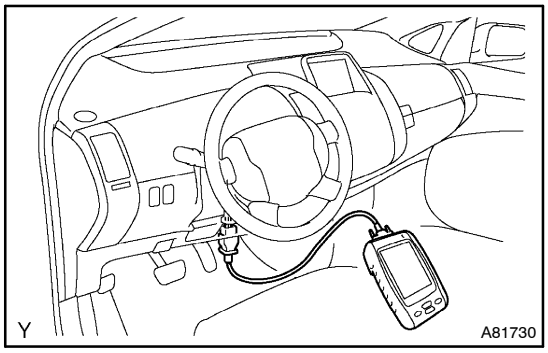
2102P–01

ON–VEHICLE INSPECTION



1. INSPECT BATTERY BLOWER ASSEMBLY

(a) Check the operation.

(1) Connect the intelligent tester II to the DLC3.

(2) Turn the power switch ON (IG).

(3) Select the item:
Powertrain / HV Battery / Active Test / COOLING SPD / 1 to 6.

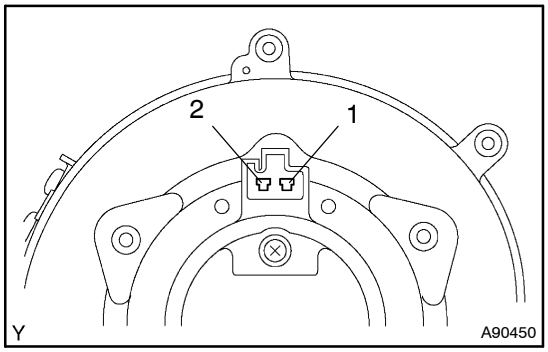
NOTICE:

If the check results are normal, do not perform the following check.

(b) Inspect the resistance.

(1) Remove the service plug grip.

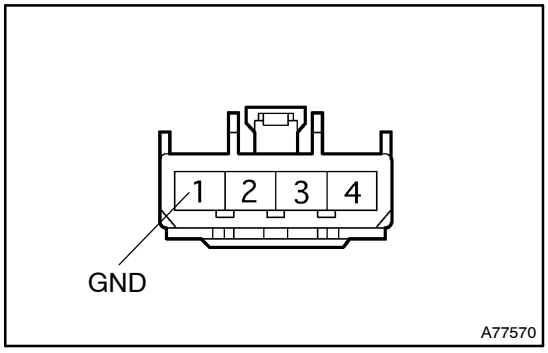
(2) Disconnect the connector of the battery blower motor.



(3) Using an ohmmeter, measure the resistance between terminals 1 and 2 of the connector.

Standard: 9 Ω or less

If the standard is not met, replace the battery blower assembly.



(c) Inspect the voltage.

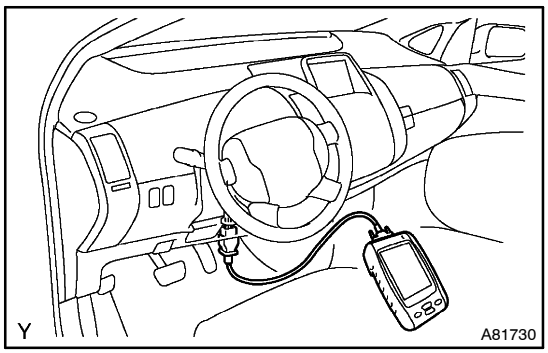
(1) Connect the connector of the blower motor.

(2) Using ohmmeter, measure the resistance between terminal 1 (GND) of the blower motor control connector and body ground.

Standard: 1 Ω or less

(3) Connect the negative terminal of the auxiliary battery.

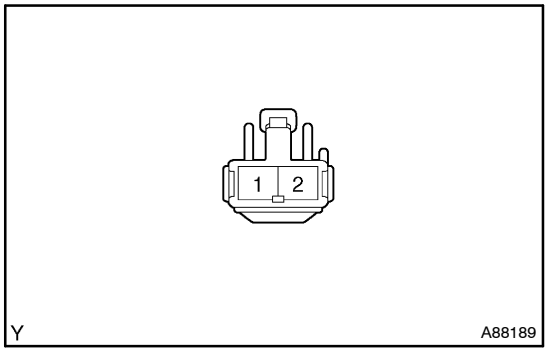
Torque: 6.0 N·m (61 kgf·cm, 53 in.·lbf)



(4) Connect the intelligent tester II to the DLC3.

(5) Turn the power switch ON (IG).

(6) Select the item:
Powertrain / HV Battery / Active Test / COOLING SPD / 1.



(7) Using a voltmeter, measure the voltage between terminals 1 (GND) of the blower motor connector and the body ground.

Standard: 9 to 14 V

NOTICE:

If the standard is not met (there is no voltage), there may be a defect in the power supply system relays or in the wire harness.

(8) Turn the power switch OFF, then disconnect the negative terminal of the auxiliary battery.

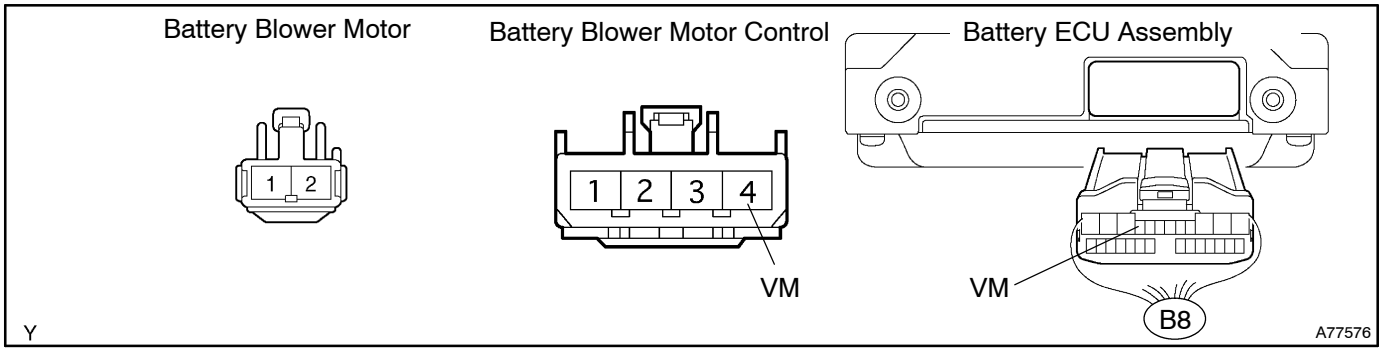
(9) Disconnect the battery blower motor, battery blower motor control, and connector of the battery ECU assembly.

(10) Using an ohmmeter, measure the resistance between the 2 terminals on the connectors of the battery blower motors on both sides of the vehicle, between the 4 terminals (VM) on the battery blower motor control, and between terminals B8 and 9 on the battery ECU assembly.

Standard: All the terminals 1 Ω or less

NOTICE:

If the standard is not met, repair or replace the wire harness and go back to step (a).

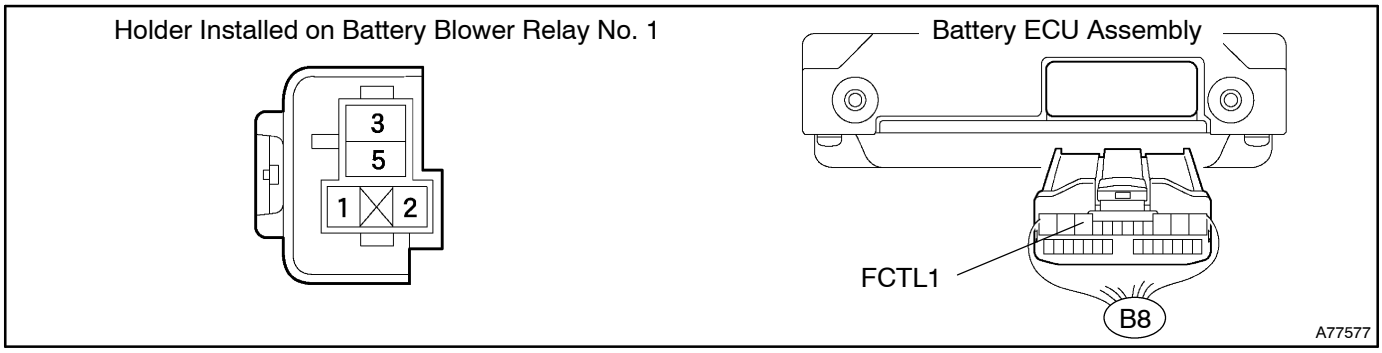


(11) Using an ohmmeter, measure the resistance between the terminal B8 – 10 (FCTL) on the connectors of the battery ECU assembly on both sides of the vehicle and terminal 1 on the holder installed on the battery blower relay No. 1.

Standard: 1 Ω or less

NOTICE:

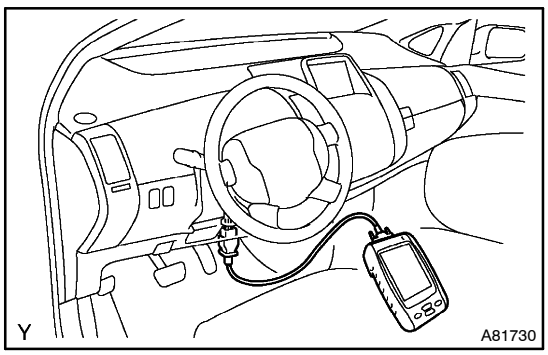
If the standard is not met, repair or replace the wire harness and go back to step (a).



(12) Reconnect all the disconnected connectors.

NOTICE:

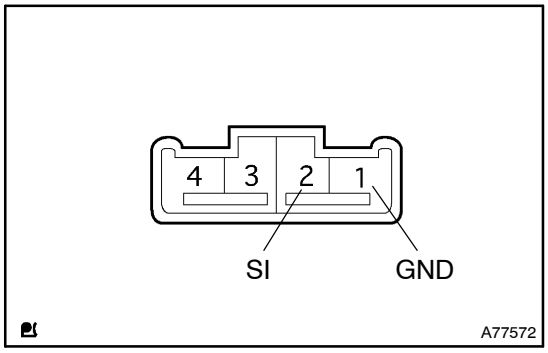
Do not connect the service plug grip.



(13) Connect the intelligent tester II to the DLC3.

(14) Turn the power switch ON (IG).

(15) Select the item:
Powertrain / HV Battery / Active Test / COOLING SPD / 1.

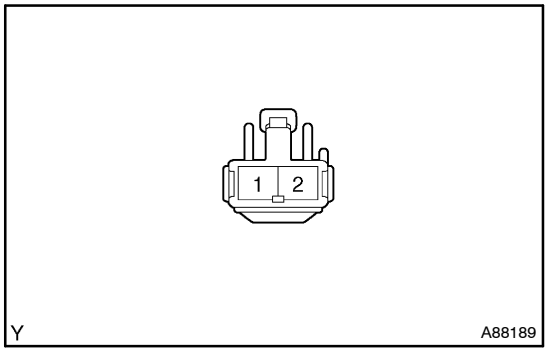


(16) Using a voltmeter, measure the voltage between terminals 1 (GND) and 2 (SI) of the battery blower motor control.

Standard: 1 V or more

NOTICE:

If the standard is not met, repair or replace the wire harness and go back to step (a).

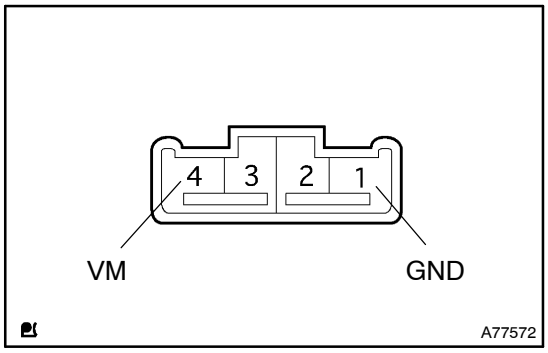


(17) Using a voltmeter, measure the voltage between the terminals on the blower motor connector.

Standard: 2 to 4 V

NOTICE:

If the standard is not met, repair or replace the wire harness and go back to step (a).



(18) Using a voltmeter, measure the voltage between terminals 1 (GND) and 4 (VM) of the blower motor control.

Standard:

A – 4 V to A – 2 V (A = (c) – (6))

NOTICE:

If the standard is not met, repair or replace the wire harness and go back to step (a).

(19) Return to step (a) and perform the inspection again to reconfirm.