DTC	P0AAC	HYBRID BATTERY PACK AIR TEMPERATURE SENSOR "A" CIRCUIT

CIRCUIT DESCRIPTION

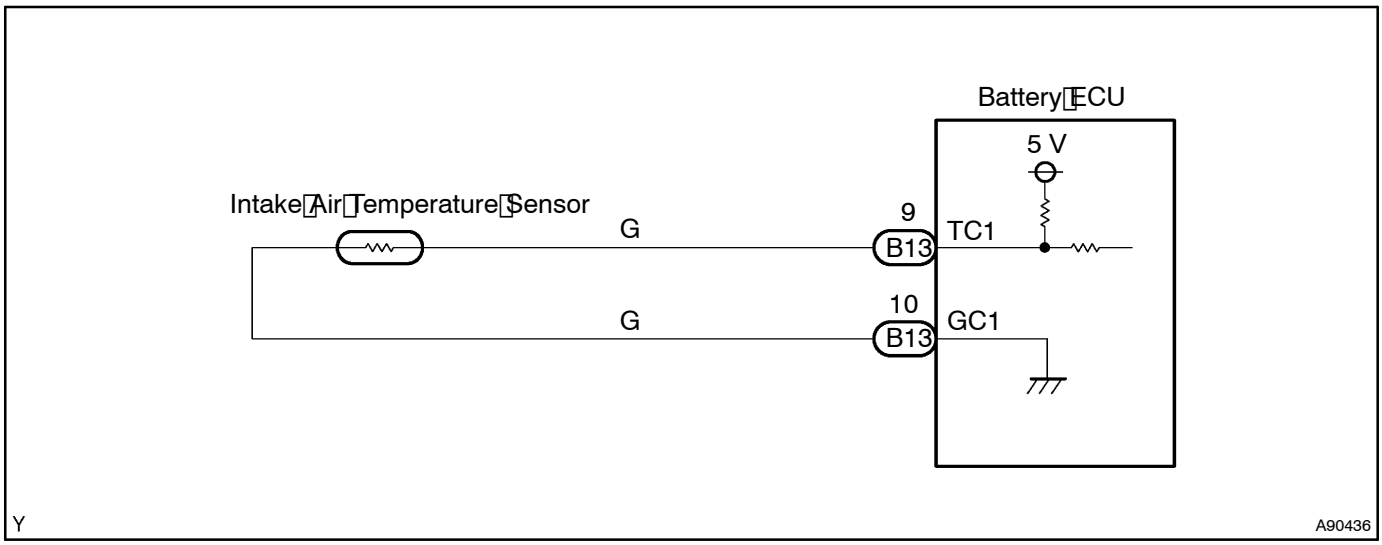
The intake air temperature sensor is provided on the HV battery assembly. Its resistance value varies with the changes in the intake air temperature. The characteristics of the intake air temperature sensor are the same as the battery temperature sensors (see page 05–689 for details).
The battery ECU uses the signals from the intake air temperature sensor for adjusting the air flow speed of the battery blower assembly.

DTC No.	DTC Detection Condition	Trouble Area
P0AAC	Temperature detected by intake air temperature sensor is lower than standard (open) or higher than standard (short) (1 trip detection logic)	• HV battery assembly (intake air temperature sensor) • Battery ECU

HINT:
After confirming DTC P0AAC, confirm Inhaling Air Temp in Powertrain / HV Battery / Data List using the intelligent tester II.

Temperature Displayed	Malfunction
–45°C (–49°F) or less	Open or +B short circuit
95°C (203°F) or more	GND short circuit

WIRING DIAGRAM



INSPECTION PROCEDURE

CAUTION:

- **Before inspecting the high–voltage system, take safety precautions to prevent electrical shocks, such as wearing insulated gloves and removing the service plug grip. After removing the service plug grip, put it in your pocket to prevent other technicians from reconnecting it while you are servicing the high–voltage system.**
- **After disconnecting the service plug grip, wait at least for 5 minutes before touching any of the high–voltage connectors or terminals.**

HINT:
At least 5 minutes is required to discharge the high–voltage condenser inside the inverter.

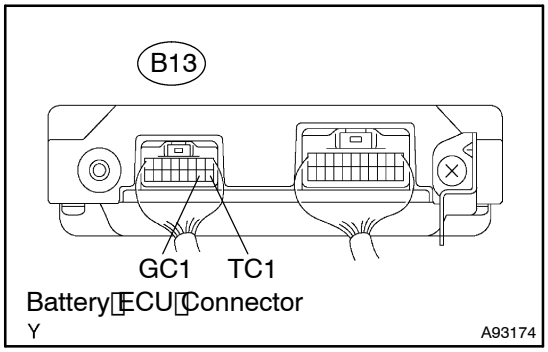
1	READ OUTPUT DTC (DTC P0A1F IS OUTPUT)

(a) Connect the Intelligent tester II to the DLC3.
(b) Turn the power switch ON (IG).
(c) Turn the Intelligent tester II ON.
(d) On the Intelligent tester II, enter the following menus: Powertrain / HV Battery / DTC.
(e) Read DTCs.
Result: DTC P0A1F is output

YES → **REPLACE BATTERY ECU ASSY (See page 21–100)**

NO

2	CHECK CONNECTION OF INTAKE AIR TEMPERATURE SENSOR CONNECTOR



CAUTION:
Wear insulated gloves before performing the following operation.
(a) Turn the power switch OFF.
(b) Remove the service plug grip (see page 21–120).
NOTICE:
Turning the power switch ON (READY) with the service plug grip removed could cause malfunction. Therefore, never turn the power switch ON (READY) in this state.
(c) Check the connection condition of the B13 battery ECU connector.
OK: Connector has been connected securely and there is no poor connection.

HINT:
Since the intake air temperature sensor is not available as a unit and if replacement is required, replace the entire HV battery assembly.

NG → **CONNECT SECURELY**

OK

REPLACE HV SUPPLY BATTERY ASSY (See page 21–56)