DTC P0A82 HYBRID BATTERY PACK COOLING FAN 1

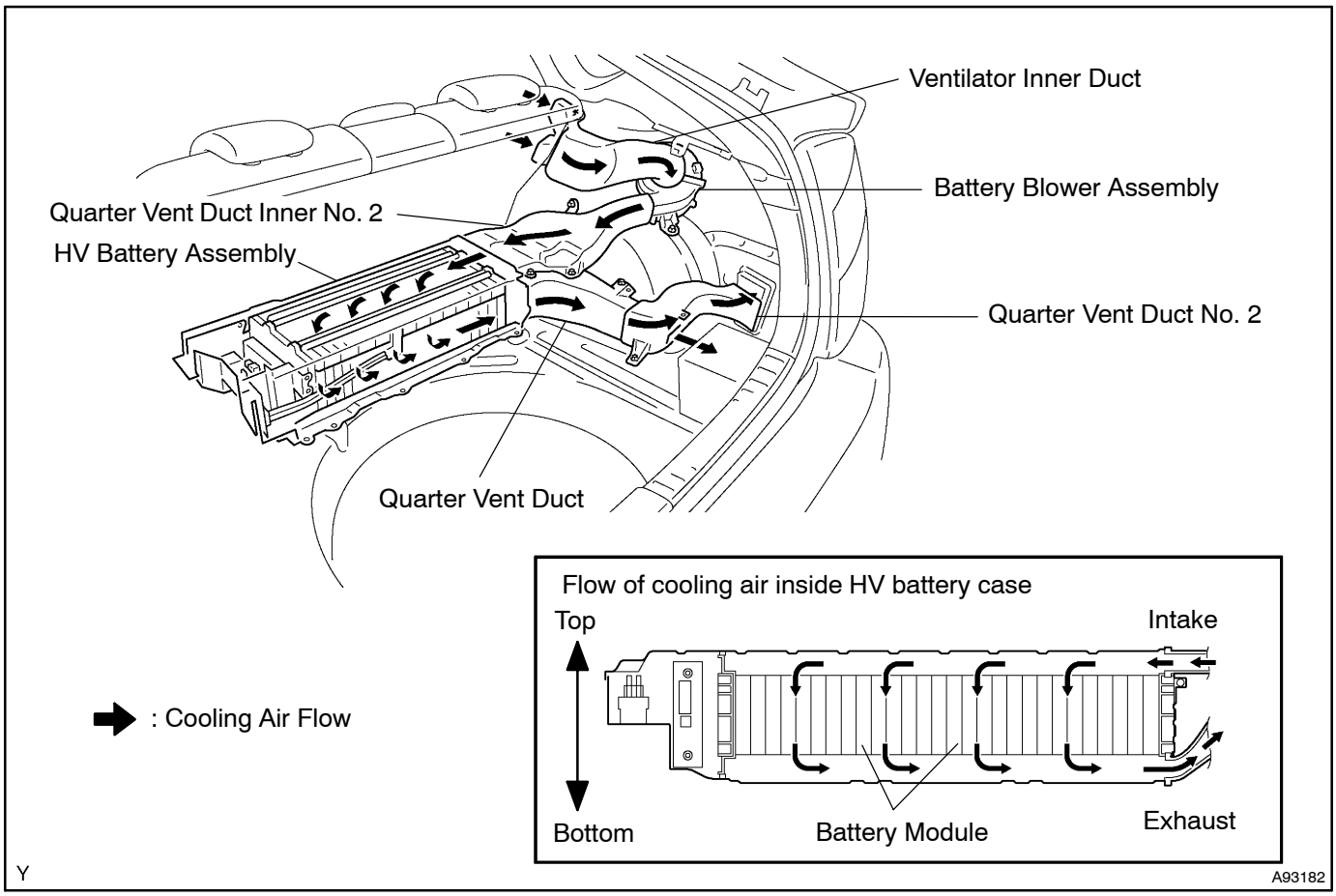
CIRCUIT DESCRIPTION

The cooling air flows into the inlet on the right of the rear seat and travels through an intake duct to the battery blower assembly on the right surface of the luggage compartment. Furthermore, the cooling air travels through an intake duct (which connects the battery blower assembly to the upper right surface of the HV battery assembly) and flows to the HV battery assembly.

The cooling air flows from the top to the bottom between the HV battery modules. After it has cooled the modules, it is discharged from the bottom right surface of the HV battery assembly.

The exhaust air travels through an exhaust duct on the right surface of luggage compartment and is discharged into the cabin as well as outside of the vehicle.

The battery ECU uses battery temperature sensors in order to detect the temperature of the HV battery assembly. Based on the results of this detection, the battery ECU controls the battery blower assembly. (Thus, the battery blower assembly starts when the HV battery temperature rises to a predetermined level.)



DTC No.	DTC Detection Condition	Trouble Area
P0A82	Difference between estimated battery temperature based on blower fan cooling performance and actual temperature is excessive (2 trip detection logic)	• Quarter vent duct • Quarter vent duct No. 2 • Quarter vent duct inner No. 2 • Ventilator inner duct • Battery blower assembly • Battery ECU

INSPECTION PROCEDURE

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 DUCT AND BLOWER

(a) Check the ducts and the blower listed below for disconnection and damage. Also, check if they have not clogged up with foreign substances.
(1) Quarter vent duct
(2) Quarter vent duct No. 2
(3) Quarter vent duct inner No. 2
(4) Ventilator inner duct
(5) Battery blower assembly

NG → **REMOVE FOREIGN SUBSTANCES OR REPLACE AFFECTED PARTS**

OK

REPLACE BATTERY ECU ASSY (See page 21–100)