DI4TR–01

DTC	P1662	Exhaust Bypass Valve Control Circuit Malfunction

CIRCUIT DESCRIPTION

This valve controls the opening or closing of the exhaust bypass passage to ensure a smooth transition from 1 turbo operation to 2 turbo operation.
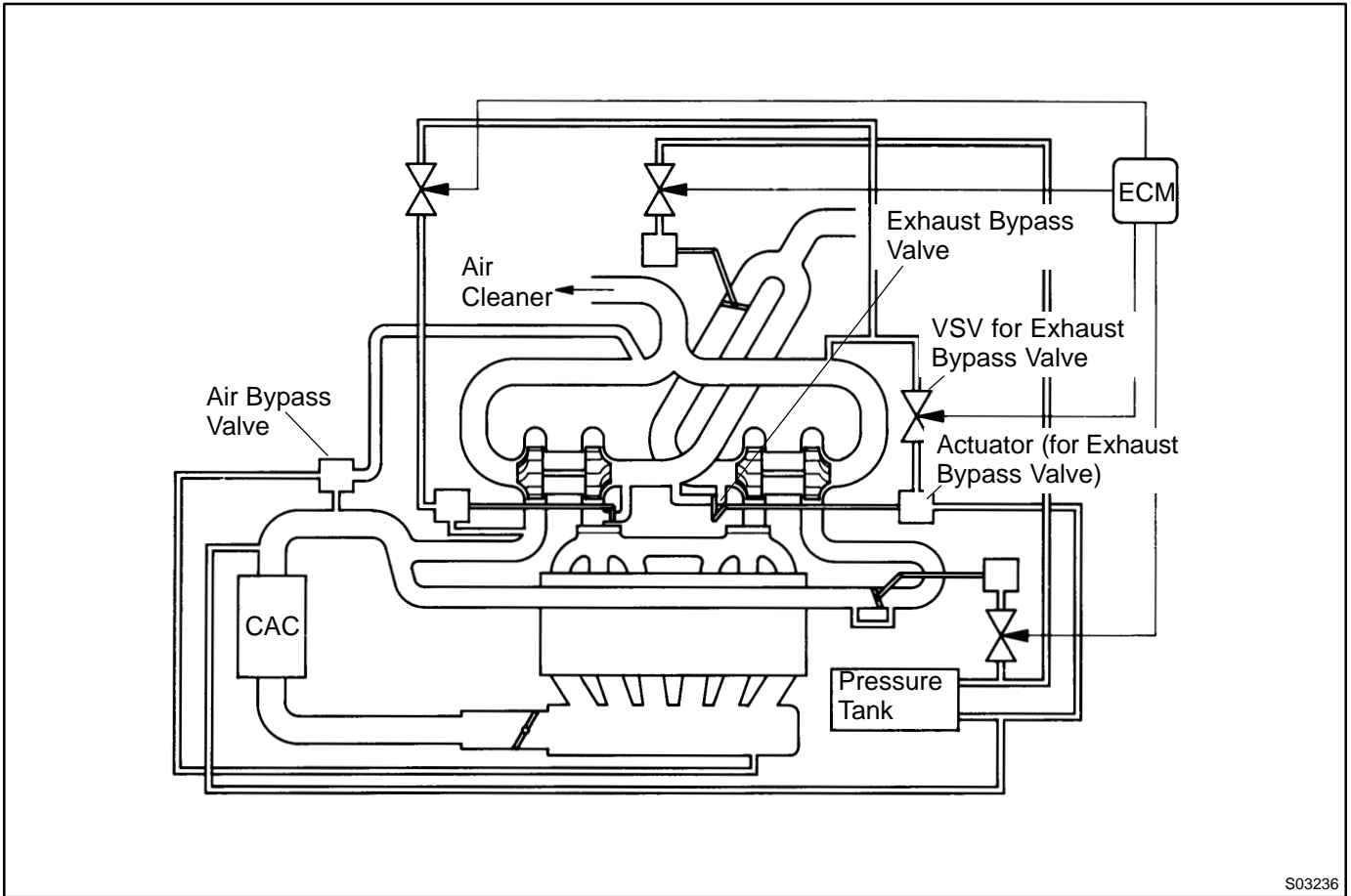
S03236

| DTC No.	DTC Detecting Condition	Trouble Area
P1662	During idling, voltage level at the output terminal (VSV3) of ECM is low (2 trip detection logic)	• Open or short in VSV circuit for exhaust bypass valve • VSV for exhaust bypass valve • ECM

WIRING DIAGRAM

Refer to page DI–266 for the WIRING DIAGRAM.

INSPECTION PROCEDURE

TOYOTA hand–held tester

1	Connect the TOYOTA hand–held tester and check operation of VSV for exhaust bypass valve.
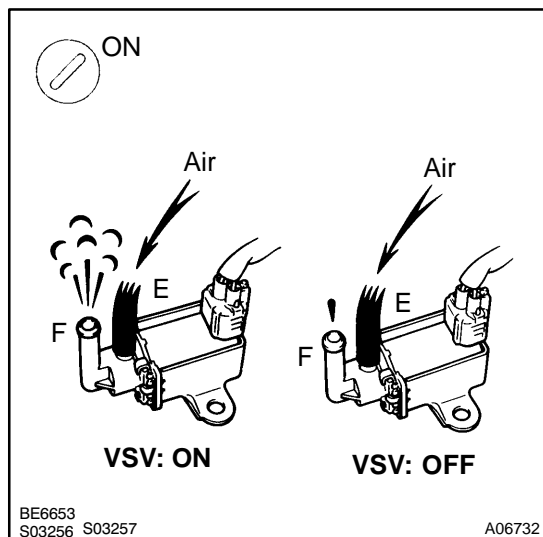
PREPARATION:
(a) Connect the TOYOTA hand–held tester to the DLC3.
(b) Turn ignition switch ON and TOYOTA hand–held tester main switch ON.
(c) Select the ACTIVE TEST mode on the TOYOTA hand–held tester.

CHECK:
Check operation of VSV when VSV is operated by the TOYOTA hand–held tester.

OK:
VSV is ON:
Air from pipe E flows out through pipe F.
VSV is OFF:
Air does not flow from pipe E to pipe F.

OK	Check for intermittent problems (See page DI–147).

NG

2	Check VSV for exhaust bypass valve (See page SF–67).

NG	Replace VSV for exhaust bypass valve.

OK

| 3 | Check for open and short in harness and connector between EFI main relay (Marking: EFI MAIN) and ECM (See page **IN–28**). |

NG ⟩ Repair or replace harness or connector.
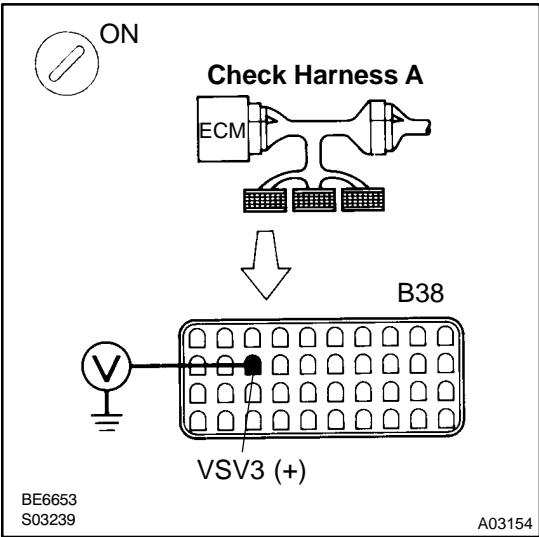
OK

Check and replace ECM (See page **IN–28**).

OBDII scan tool (excluding TOYOTA hand–held tester)

| 1 | Check VSV for exhaust bypass valve (See page **SF–67**). |

NG ⟩ Replace VSV for exhaust bypass valve.

OK

| 2 | Check voltage between terminal VSV3 of ECM connector and body ground. |

ON

Check Harness A

ECM

B38

V

VSV3 (+)

BE6653
S03239

A03154

PREPARATION:
(a)   Connect Check Harness A (See page **DI–164**).
(b)   Turn ignition switch ON.
CHECK:
Measure voltage between terminal VSV3 of ECM connector and body ground.
OK:
   Voltage: 9 – 14 V

NG ⟩ Check and repair harness or connector.

OK

Check and replace ECM (See page **IN–28**).