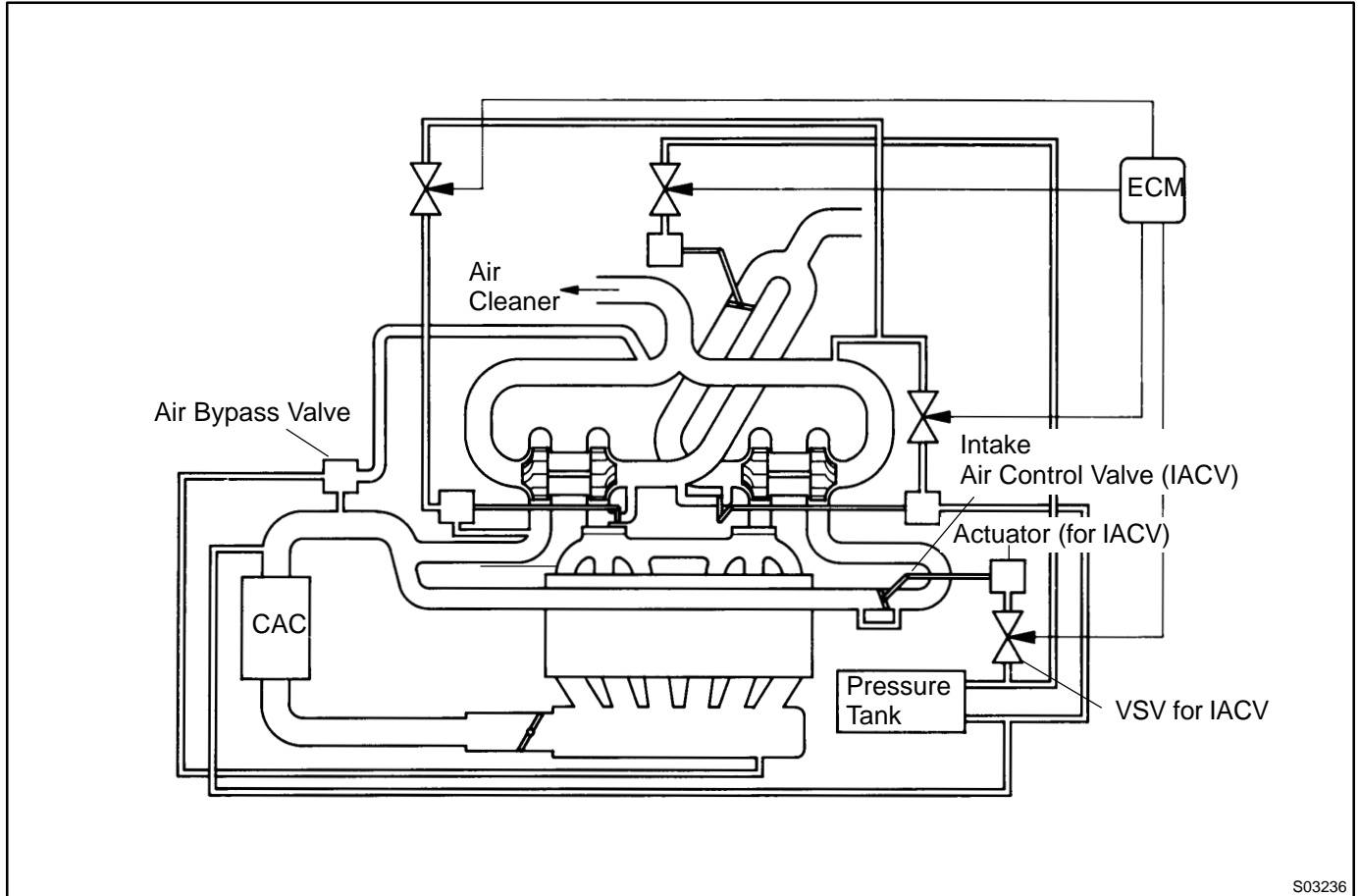


DTC	P1652	IACV Control Circuit Malfunction
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CIRCUIT DESCRIPTION

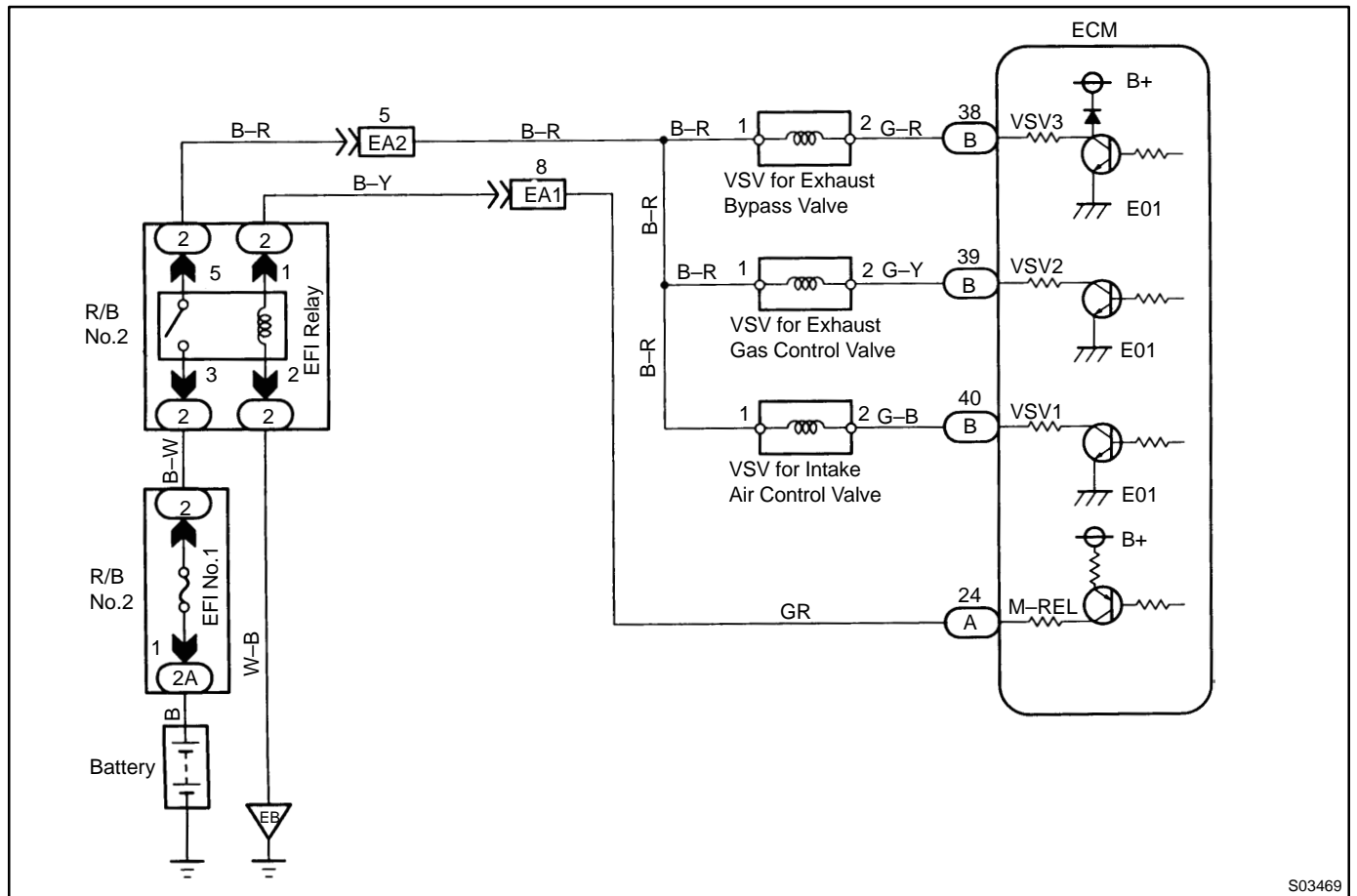
The valve controls the opening or closing of the No.2 intake air passage in order to pass the charge air from No.2 turbocharger.



S03236

DTC No.	DTC Detecting Condition	Trouble Area
P1652	During idling, voltage level at the output terminal (VSV1) of ECM is low (2 trip detection logic)	<ul style="list-style-type: none"> • Open or short in VSV circuit for IACV • VSV for IACV • ECM

WIRING DIAGRAM

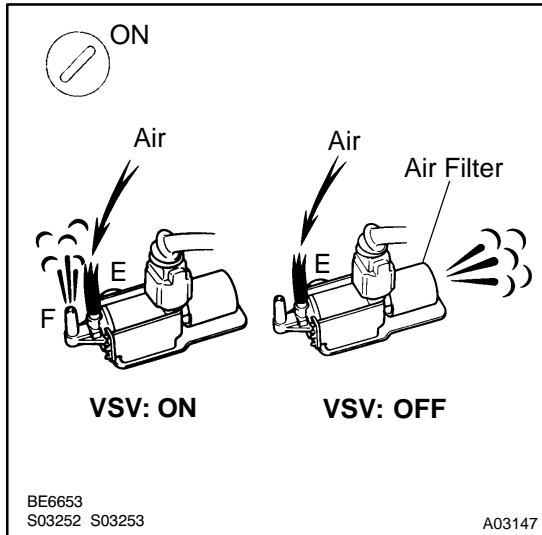


S03469

INSPECTION PROCEDURE

TOYOTA hand-held tester

1	Connect the TOYOTA hand-held tester and check operation of VSV for IACV.
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PREPARATION:

- (a) Connect the TOYOTA hand-held tester to 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 from pipe E flows out through the air filter.

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

2	Check VSV for IACV (See page SF-61).
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NG	Replace VSV for IACV.
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OK

3	Check for open and short in harness and connector between EFI main relay (Marking: EFI MAIN) and ECM (See page IN-28).
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NG	Repair or replace harness or connector.
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OK

Check and replace ECM (See page IN-28).
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1997 SUPRA (RM502U)

OBDII scan tool (excluding TOYOTA hand-held tester)

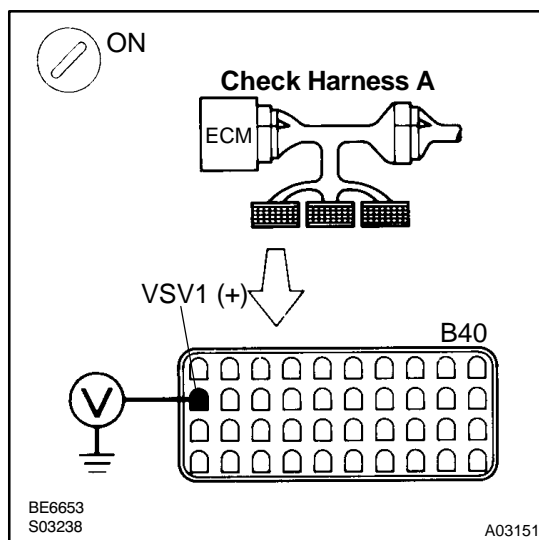
1 Check VSV for IACV (See page [SF-61](#)).

NG

Replace VSV for IACV.

OK

2 Check voltage between terminal VSV1 of ECM connector and body ground.

**PREPARATION:**

- (a) Connect Check Harness A (See page [DI-164](#)).
- (b) Turn ignition switch ON.

CHECK:

Measure voltage between terminal VSV1 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](#)).