

<b>DTC</b>	<b>58</b>	<b>SCV Stick Detected (Closed)</b>
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## CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
58	When the condition that the turbocharger pressure exceeds the standard value for 0.5 sec. or more is detected.	<ul style="list-style-type: none"> <li>• SCV valve</li> <li>• VSV for SCV</li> <li>• Engine ECU</li> </ul>

## INSPECTION PROCEDURE

When using hand –held tester:

<b>1</b>	<b>Check connection of vacuum hose.</b>
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NG

Repair or replace.

OK

<b>2</b>	<b>Check vacuum between SCV and VSV for SCV at 900 rpm.</b>
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### PREPARATION:

- (a) Using a 3 –way connector, connect a vacuum gauge to the hose between the VSV and SCV.  
 (b) Warm up the engine to above 80 °C (176° F).

### CHECK:

Check the vacuum at 900 rpm.

### RESULT:

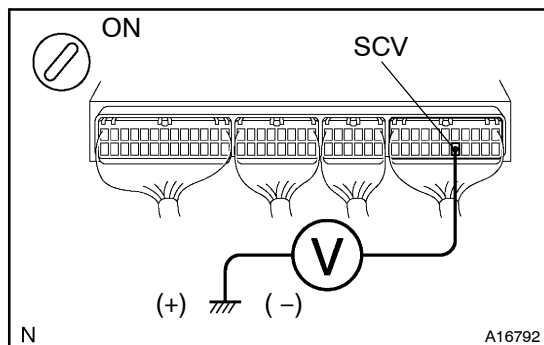
Type	Vacuum
I	0 kPa (0 mmHg, in. Hg) – 50 kPa (375 mmHg, 14.8 in. Hg)
II	Above 50 kPa (375 mmHg, 14.8 in. Hg)

Type II

Go to step 7.

Type I

### 3 Check voltage between terminal SCV of engine ECU connector and body ground.



#### PREPARATION:

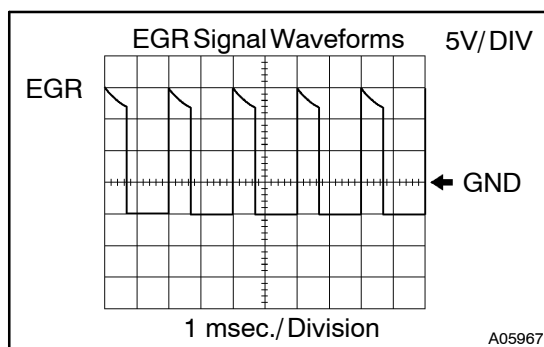
- Remove the glove compartment door.
- Turn the ignition switch ON.

#### CHECK:

Measure the voltage between terminal SCV of the engine ECU connector and body ground.

#### OK:

**Voltage: 9 – 14 V**



#### Reference: INSPECTION USING OSCILLOSCOPE

During SCV system is ON (engine speed 900 rpm), check the waveform between terminals SCV and E 1 of engine ECU connector.

#### HINT:

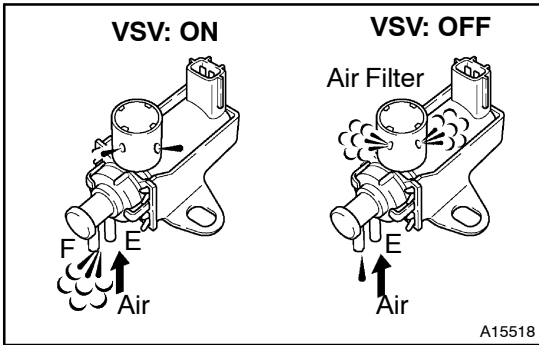
The correct waveform is as shown.

NG

Go to step 5.

OK

#### 4 Check operation of VSV for SCV.



##### **PREPARATION:**

- Disconnect the vacuum hoses from the VSV.
- Connect the hand-held tester to the DLC3.
- Turn the ignition switch ON and the push hand-held tester main switch ON.
- Select the ACTIVE TEST mode on the hand-held tester.

##### **CHECK:**

Check the operation of the VSV when it is operated by the hand-held tester.

##### **OK:**

**VSV ON:**

Air from port E flows out through port F.

**VSV OFF:**

Air from port E flows out through air filter.

OK

Go to step 7.

NG

#### 5 Check VSV for SCV ([See page ED-10](#)).

NG

Replace VSV.

OK

#### 6 Check for open and short in harness and connector between VSV and engine ECU, and VSV and EFI main relay (Marking : EFI) ([See page IN-19](#)).

NG

Repair or replace harness or connector.

OK

**7** Check SCV assembly ([See page ED-7](#)).

NG

Replace SCV assembly.

OK

Check and replace engine ECU ([See page IN-19](#)).

**When not using hand –held tester:**

**1** Check the connection of vacuum hose.

NG

Repair or replace.

OK

**2** Check vacuum between turbocharger and VSV for SCV at 900 rpm.

**PREPARATION:**

(a) Using a 3 –way connector, connect a vacuum gauge to the hose between the VSV and SCV.

(b) Warm up the engine to above 80 °C (176° F).

**CHECK:**

Check the vacuum at 900 rpm.

**RESULT:**

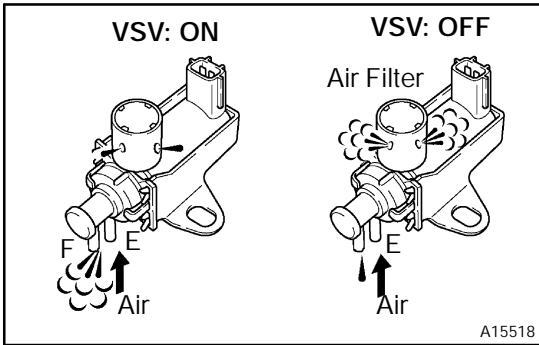
Type	Vacuum
I	0 kPa (0 mmHg, in. Hg) – 50 kPa (375 mmHg, 14.8 in. Hg)
II	Above 50 kPa (375 mmHg, 14.8 in. Hg)

Type II

Go to step 6.

Type I

### 3 Check operation of VSV.



#### PREPARATION:

- Remove the glove compartment door.
- Disconnect the E3 connector from the engine ECU.
- Turn the ignition switch ON.

#### CHECK:

Check the VSV operation.

- Connect between terminal SCV of the engine ECU connector and body ground (ON).
- Disconnect between terminal SCV of the engine ECU connector and body ground (OFF).

#### OK:

**VSV ON:**

Air from port E flows out through port F.

**VSV OFF:**

Air from port E flows out through air filter.

OK

Go to step 6.

NG

### 4 Check VSV for SCV (See page ED-10).

NG

Replace VSV.

OK

### 5 Check for open and short in harness and connector between VSV and engine ECU, and VSV and EFI main relay (Marking : EFI) (See page IN-19).

NG

Repair or replace harness or connector.

OK

6	Check SCV assembly ( <a href="#">See page ED-7</a> ).
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NG
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Replace SCV assembly.
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OK
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Check and replace engine ECU ( <a href="#">See page IN-19</a> ).
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