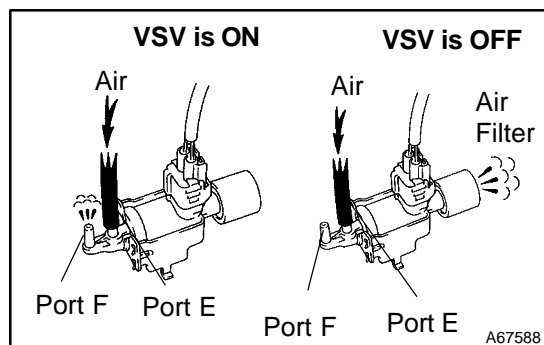


INSPECTION PROCEDURE

Hand-held tester:

1 PERFORM ACTIVE TEST BY HAND-HELD TESTER(OPERATE VSV FOR ACIS)



- Disconnect the vacuum hose.
- Connect the hand-held tester to the DLC3.
- Turn the ignition switch ON and hand-held tester main switch ON.
- Select the item "DIAGNOSIS/ENHANCED OBD II/ACTIVE TEST/INTAKE CTL VSV1" and operate the VSV for AICS.
- Select the ACTIVE TEST mode on the hand-held tester.
- Check the VSV operation when it is operated by the hand-held tester.

Standard:

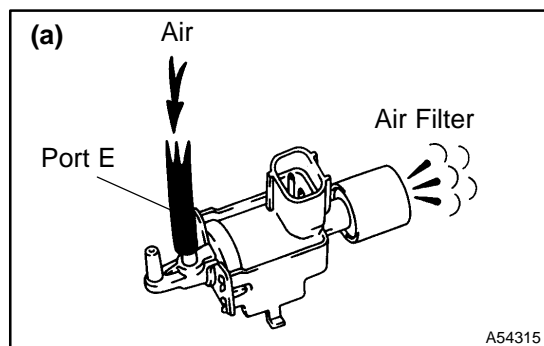
Tester operation	Specified condition
VSV is ON	Air from port E flows out through port F
VSV is OFF	Air from port E flows out through the air filter

OK

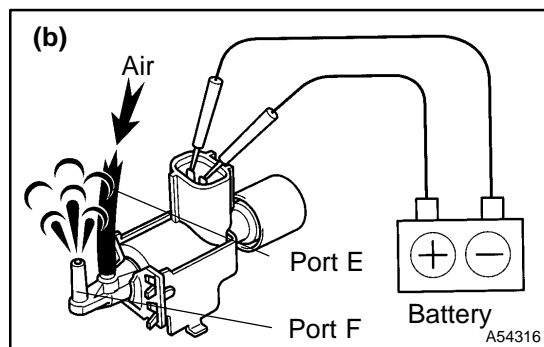
Go to step 4

NG

2 CHECK VSV FOR ACIS(OPERATION)



- Check that air flows from port E to the air filter.



- Apply battery positive voltage across the terminals.
- Check that air flows from port E to port F.

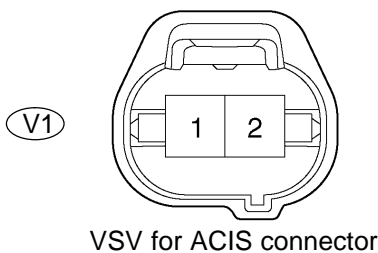
NG

REPLACE VSV FOR ACIS

OK

3 CHECK HARNESS AND CONNECTOR(VSV FOR ACIS - ECM, VSV FOR ACIS - EFI RELAY)

Wire Harness Side



Y

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- (a) Check the wire harness between the VSV connector for the ACIS and ECM connector.

- (1) Disconnect the VSV for ACIS connector.
- (2) Disconnect the E4 ECM connector.
- (3) Check for continuity between the wire harness side connectors.

Standard (Check for open):

Symbols (Terminal No.)	Specified condition
VSV for ACIS (V1-2) - ACIS (E4-15)	Continuity

Standard (Check for short):

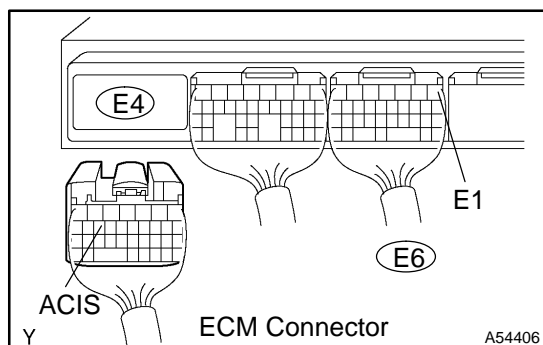
Symbols (Terminal No.)	Specified condition
VSV for ACIS (V1-2) or ACIS (E4-15) - E1 (E6-1)	No continuity

- (b) Check the wire harness between the VSV for the ACIS and EFI relay.

- (1) Disconnect the VSV for ACIS connector.
- (2) Remove the EFI relay from the engine room R/B.
- (3) Check for continuity between the wire harness side connectors.

Standard (Check for open):

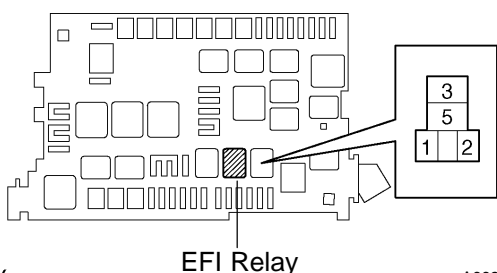
Symbols (Terminal No.)	Specified condition
VSV for ACIS (V1-1) - EFI relay terminal 3 of R/B	Continuity



Y

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Engine Room R/B



Y

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NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

4 CHECK VACUUM HOSE(INTAKE MANIFOLD - INTAKE AIR CONTROL VALVE, INTAKE AIR CONTROL VALVE - VSV FOR ACIS)

- (a) Check that the vacuum hose is connected correctly.
- (b) Check the vacuum hose for looseness and disconnection.
- (c) Check the vacuum hose for cracks, hole and damage.

NG

REPAIR OR REPLACE VACUUM HOSE

OK

5 INSPECT INTAKE AIR CONTROL VALVE(INTAKE AIR SURGE TANK) (See page 13-2)

NG

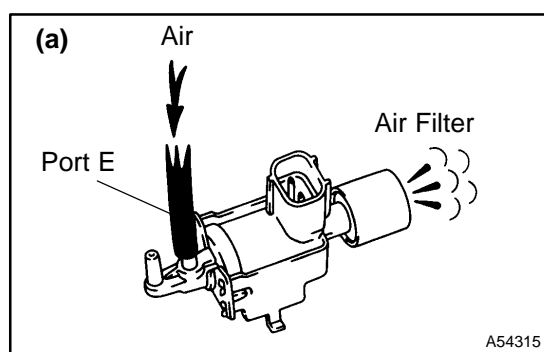
**REPLACE INTAKE AIR CONTROL VALVE
(INTAKE AIR SURGE TANK) (See page 14-163)**

OK

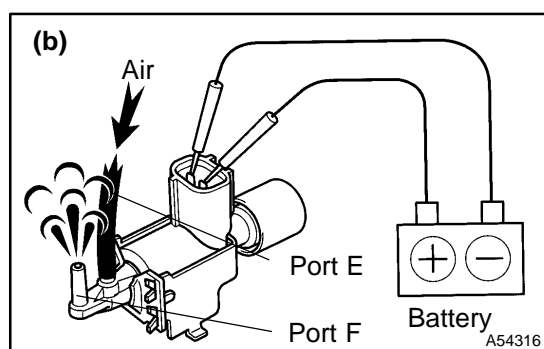
CHECK AND REPLACE ECM (See page 01-35)

OBD II scan tool (excluding hand-held tester):

1 INSPECT VSV FOR ACIS(OPRATION)



(a) Check that air flows from port E to the air filter.



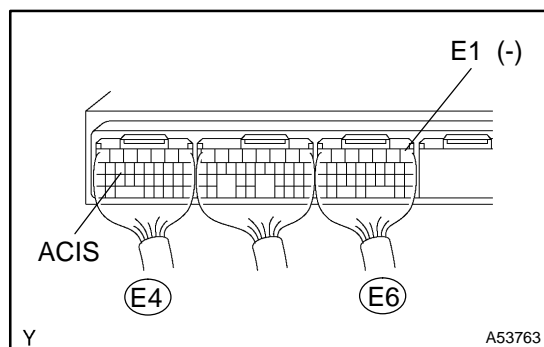
(b) Apply battery positive voltage across the terminals.
(c) Check that air flows from port E to port F.

NG

REPLACE VSV FOR ACIS

OK

2 CHECK ECM(ACIS VOLTAGE)



(a) Start the engine.
(b) Measure the voltage between the terminals of the E4 and E6 ECM connectors.

Standard:

Symbols (Terminal No.)	Condition	Specified condition
ACIS (E4-15) - E1 (E6-1)	<ul style="list-style-type: none"> Engine speed is between 2,200 rpm and 4,100 rpm. Throttle valve opening angle is 60° or more 	9 to 14 V

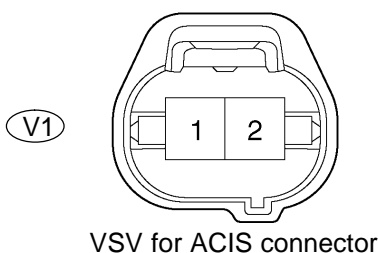
OK

Go to step 4

NG

3 CHECK HARNESS AND CONNECTOR(VSV FOR ACIS - ECM, VAV FOR ACIS - EFI RELAY)

Wire Harness Side



Y

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(a) Check the wire harness between the VSV connector for the ACIS and ECM connector.

- (1) Disconnect the VSV for ACIS connector.
- (2) Disconnect the E4 ECM connector.
- (3) Check for continuity between the wire harness side connectors.

Standard (Check for open):

Symbols (Terminal No.)	Specified condition
VSV for ACIS (V1-2) - ACIS (E4-15)	Continuity

Standard (Check for short):

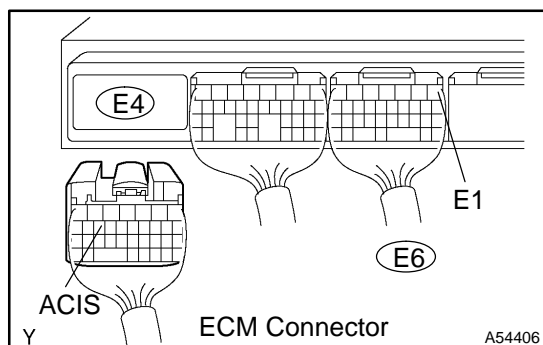
Symbols (Terminal No.)	Specified condition
VSV for ACIS (V1-2) or ACIS (E4-15) - E1 (E6-1)	No continuity

(b) Check the wire harness between the VSV for the ACIS and EFI relay.

- (1) Disconnect the VSV for ACIS connector.
- (2) Remove the EFI relay from the engine room R/B.
- (3) Check for continuity between the wire harness side connectors.

Standard (Check for open):

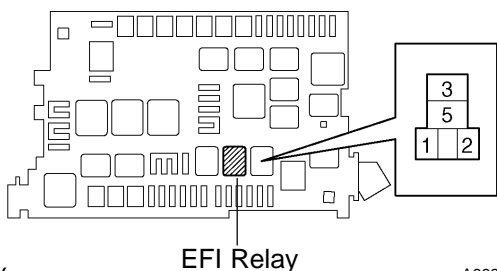
Symbols (Terminal No.)	Specified condition
VSV for ACIS (V1-1) - EFI relay terminal 3 of R/B	Continuity



Y

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Engine Room R/B



Y

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NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

4 CHECK VACUUM HOSE(INTAKE MANIFOLD - INTAKE AIR CONTROL VALVE, INTAKE AIR CONTROL VALVE - VSV FOR ACIS)

- (a) Check if the vacuum hose is connected correctly.
- (b) Check the vacuum hose for looseness and disconnection.
- (c) Check the vacuum hose for cracks, hole and damage.

NG

REPAIR OR REPLACE VACUUM HOSE

OK

5	INSPECT INTAKE AIR CONTROL VALVE(INTAKE AIR SURGE TANK) (See page 13-2)
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NG

REPLACE INTAKE AIR CONTROL VALVE (IN-
TAKE AIR SURGE TANK) (See page [14-163](#))

OK

CHECK AND REPLACE ECM (See page [01-35](#))