DI-105

DIDY9-01

DTC

P1416/58* SCV Control Circuit

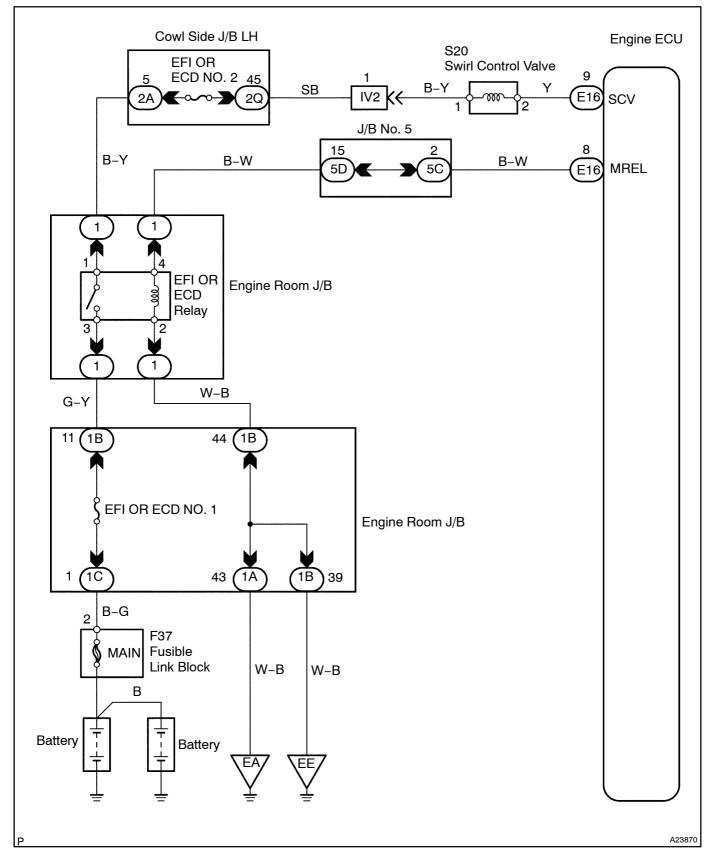
HINT:

*: Only for Europe

CIRCUIT DESCRIPTION

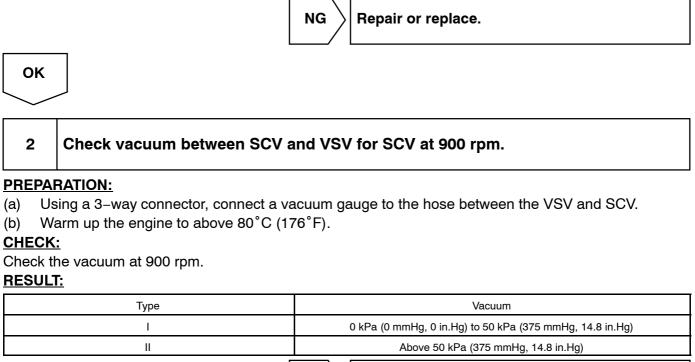
DTC No.	DTC Detection Condition	Trouble Area
P1416/58	Condition that intake air volume is at standard value or less for 15 sec. is detected 3 times	• SCV valve • VSV for SCV • Air flow meter • Vacuum hose • Engine ECU

WIRING DIAGRAM



INSPECTION PROCEDURE When using intelligent tester II:

1 Check connection of vacuum hose.



II Above 50 kPa (375 mmHg, 14.8 in.Hg)
Type II Go to step 7.
Type I

Y

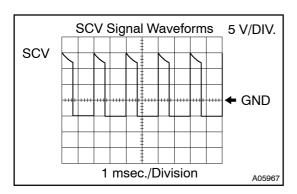
3 Check voltage between terminal SCV of engine ECU connector and body ground. **PREPARATION:** Remove the glove compartment door. (a) Turn the ignition switch ON. (b) CHECK:

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

OK:

A23883

Voltage: 9 to 14 V



SCV

Reference: INSPECTION USING OSCILLOSCOPE

While the SCV system is ON (engine speed 900 rpm), check the waveform between terminals SCV and E1 of the engine ECU connector.

HINT:

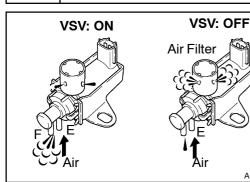
The correct waveform is as shown.



OK

4

Check operation of VSV for SCV.



PREPARATION:

- Disconnect the vacuum hoses from the VSV. (a)
- (b) Connect the intelligent tester II to the DLC3.
- (C) Turn the ignition switch ON and push the intelligent tester II main switch ON.

Select the Active Test mode on the intelligent tester II. (d) CHECK:

Check the operation of the VSV when it is operated by the intelligent tester II.

OK:

A15518

VSV ON:

Air from port E flows out through port F. **VSV OFF:**

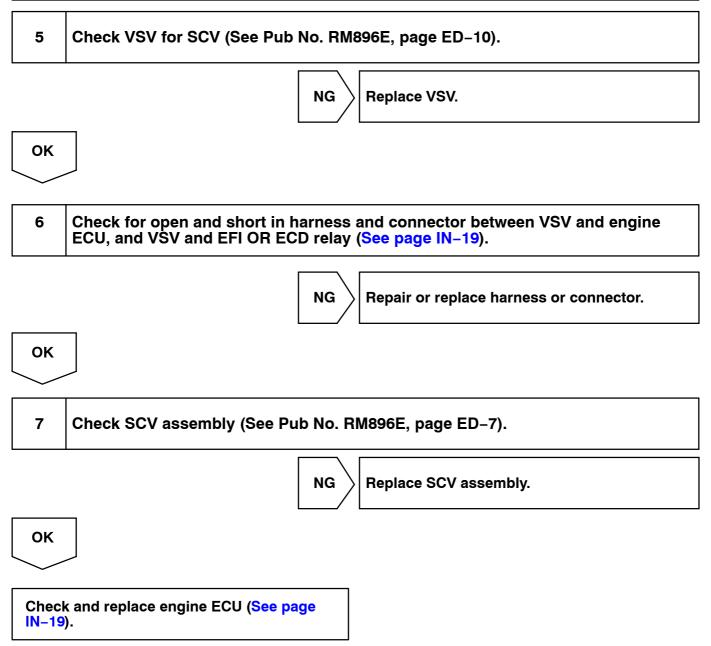
Air from port E flows out through air filter.

OK

Go to step 7.

NG

1HD-FTV ENGINE SUP (RM1179E)



When not using intelligent tester II:

1	Check connection of vacuum hose.



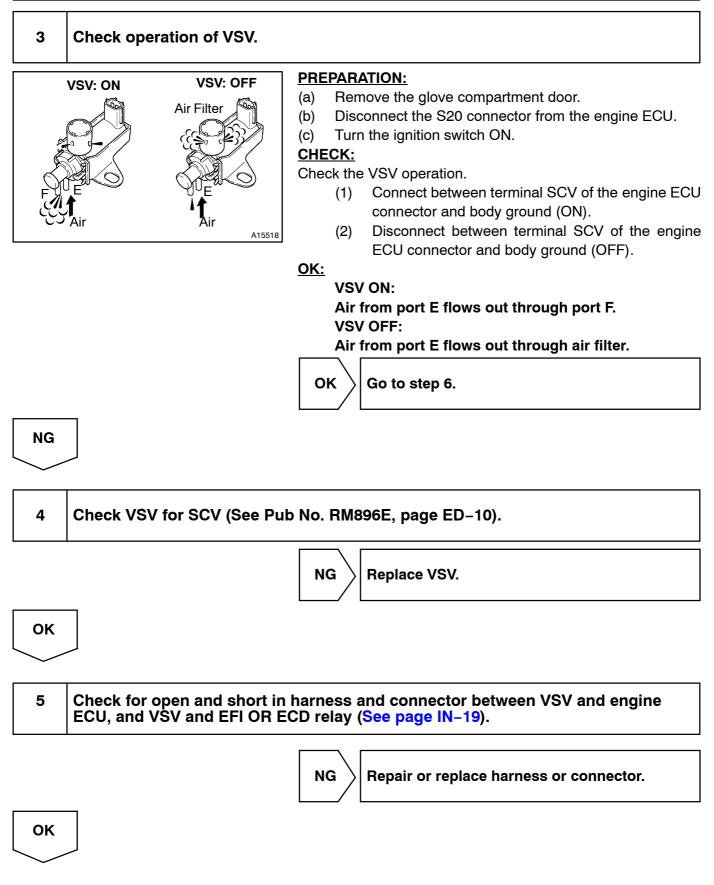
ОК	
2	Check vacuum between SCV and VSV for SCV at 900 rpm.
PREPA	RATION:
(a) Us	sing a 3-way connector, connect a vacuum gauge to the hose between the VSV and SCV.
(b) W	arm up the engine to above 80°C (176°F).
CHECK	<u>.</u>
Check tl	ne vacuum at 900 rpm.

RESULT:

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



Type I



6	Check SCV assembly (See Pub No. RM896E, page ED–7).	
	NG Replace SCV assembly.	
ΟΚ		
Check and replace engine ECU (See page IN–19).		