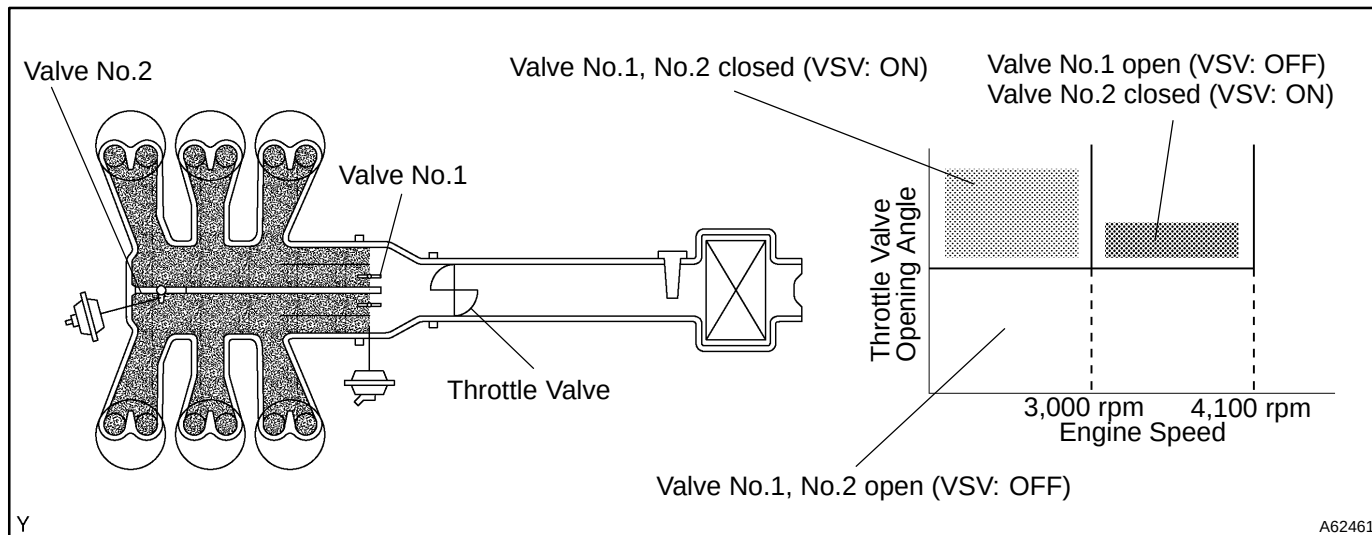


## ACIS CONTROL CIRCUIT

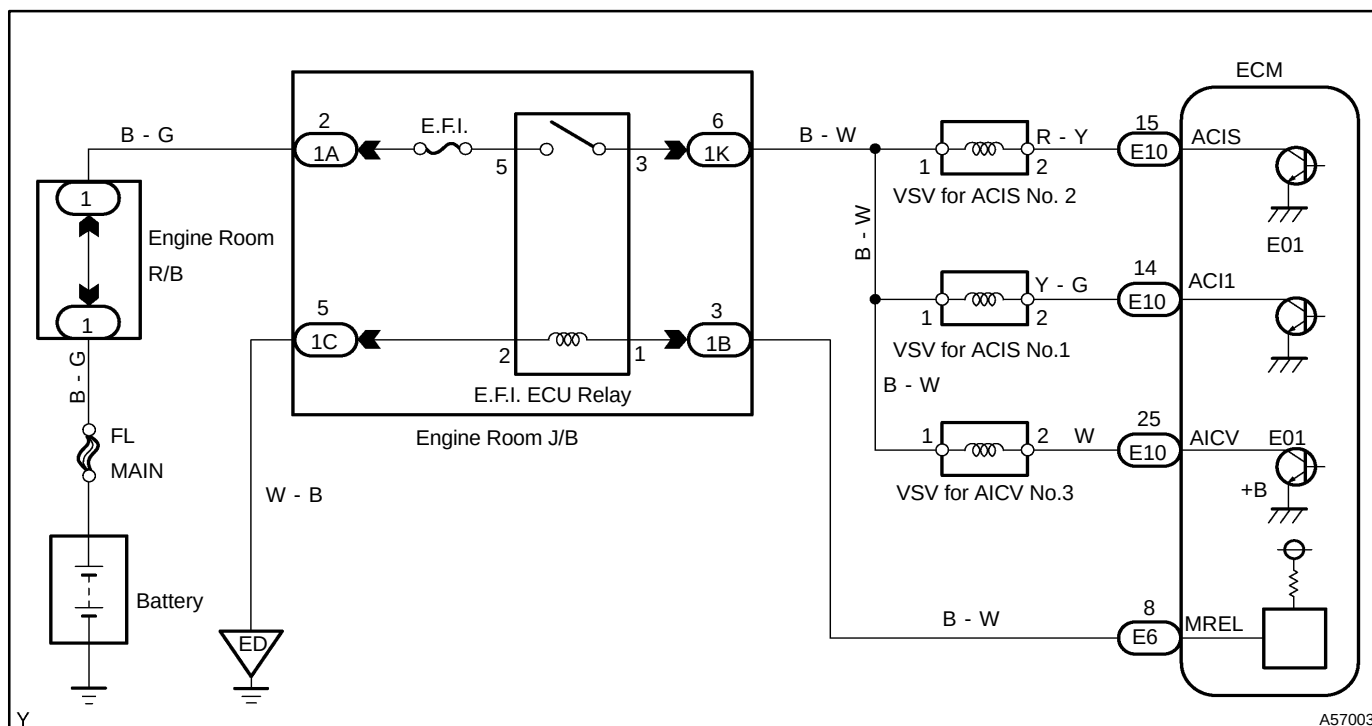
### CIRCUIT DESCRIPTION

This circuit opens and closes the Intake Air Control Valve in response to the engine load in order to increase the intake efficiency (ACIS: Acoustic Control Induction System).

When the engine speed is 4,100 rpm or less and the throttle valve opening angle is 30° or more, the ECM turns the two VSV ON or OFF and operates the Intake Air Control Valve.



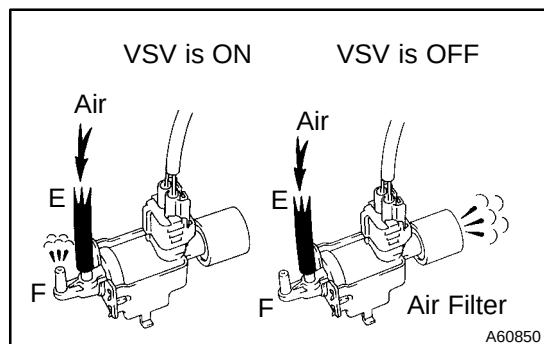
### WIRING DIAGRAM



## INSPECTION PROCEDURE

### Hand-held Tester:

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



- Turn the ignition switch ON and hand-held tester main switch ON.
- Select the INTAKE CTRL VSV from the ACTIVE TEST menu on the hand-held tester.
- Check the operation of the VSV when the VSV is operated by the hand-held tester.

**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

INSPECT VACUUM TANK

NG

#### 2 CHECK VSV(FOR ACIS) (See page 13-2 )

NG

REPLACE VACUUM SWITCHING VALVE ASSY NO.1

OK

#### 3 CHECK HARNESS AND CONNECTOR(E.F.I. ECU RELAY - ECM)

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

CHECK AND REPLACE ECM

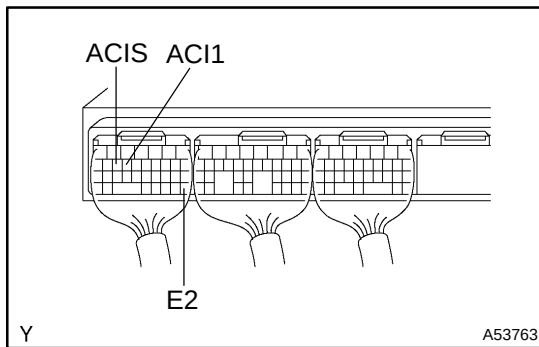
### OBDII scan tool (excluding Hand-held Tester):

#### 1 CHECK VSV(FOR ACIS) (See page 13-2 )

NG

REPLACE VACUUM SWITCHING VALVE ASSY NO.1

OK

**2 INSPECT ECM**

- (a) Turn the ignition switch ON.
- (b) Measure the voltage between terminals ACI1, ACIS and E2 of the ECM connector.

**Voltage: 9 - 14 V****NG****CHECK HARNESS AND CONNECTOR****OK****3 INSPECT VACUUM TANK (See page 13-2 )****NG****REPAIR OR REPLACE****OK****CHECK AND REPLACE ECM**