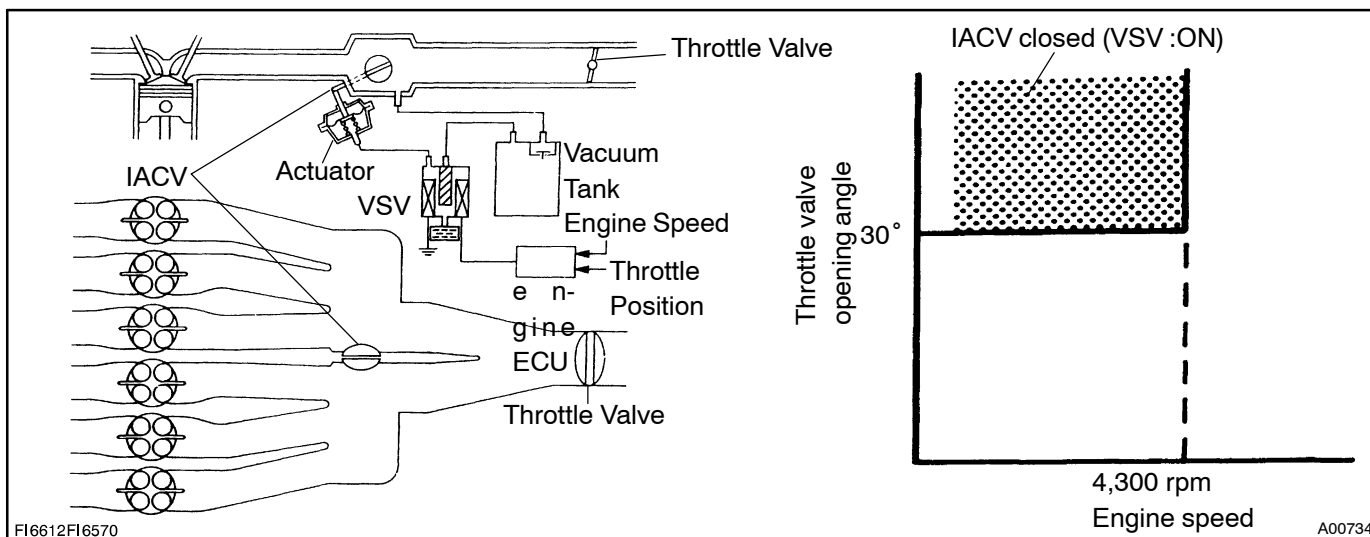


IACV Control VSV Circuit

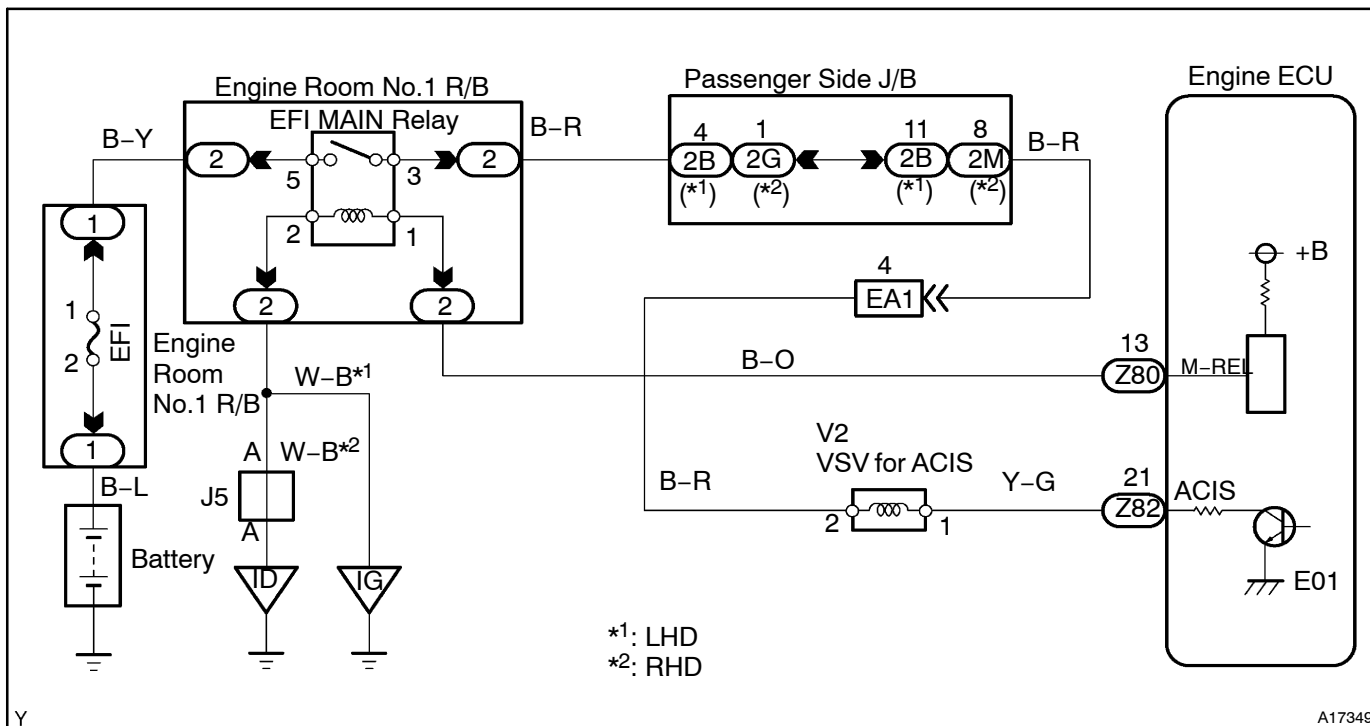
CIRCUIT DESCRIPTION

This circuit opens and closes the IACV (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 4,300 rpm or less and the throttle valve opening angle is 30° or more, the engine ECU turns the VSV ON and closes the IACV. At all other times, the VSV is OFF, so the IACV is open.



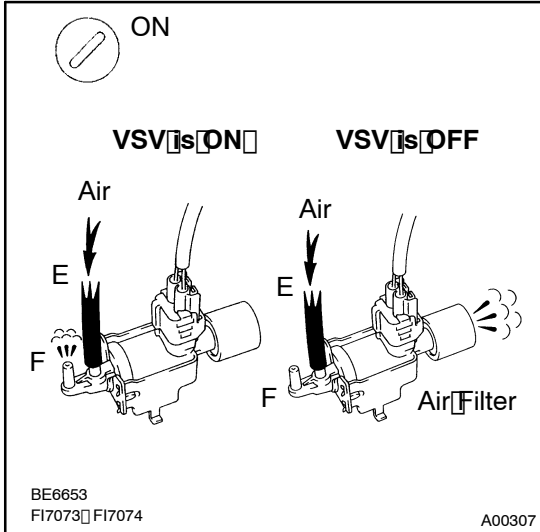
WIRING DIAGRAM



INSPECTION PROCEDURE

When using hand-held tester

1 Connect hand-held tester and check operation of VSV for ACIS.

**PREPARATION:**

- Connect the hand-held tester to the DLC3.
- Turn the ignition switch ON and hand-held tester main switch ON.
- Select ACTIVE TEST mode on the hand-held tester.

CHECK:

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

OK:

VSV is ON:

Air from pipe E is flowing out through pipe F.

VSV is OFF:

Air from pipe E is flowing out through the air filter.

OK

Check for vacuum tank (See page FI-48).

NG

2 Check VSV for ACIS (See page FI-58).

NG

Replace VSV for ACIS.

OK

- 3 Check for open and short in harness and connector between EFI main relay and engine ECU (See page IN-34).

NG

Repair or replace harness or connector.

OK

Check and replace engine ECU (See page IN-34).

When not using hand-held tester

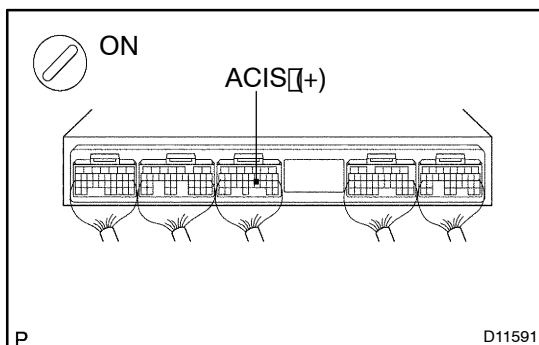
- 1 Check VSV for ACIS (See page FI-58).

NG

Replace VSV for ACIS.

OK

- 2 Check voltage between terminal ACIS of engine ECU connector and body ground.



PREPARATION:

- (a) Remove the engine room engine ECU hood and cover.
 (b) Turn the ignition switch ON.

CHECK:

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

OK:

Voltage: 9 - 14 V

NG

Check for open and short in harness and connector between EFI main relay and engine ECU (See page IN-34).

OK

3 Check for vacuum tank (See page FI-48)

NG

Repair or replace.

OK

Check and replace engine ECU (See page IN-34).