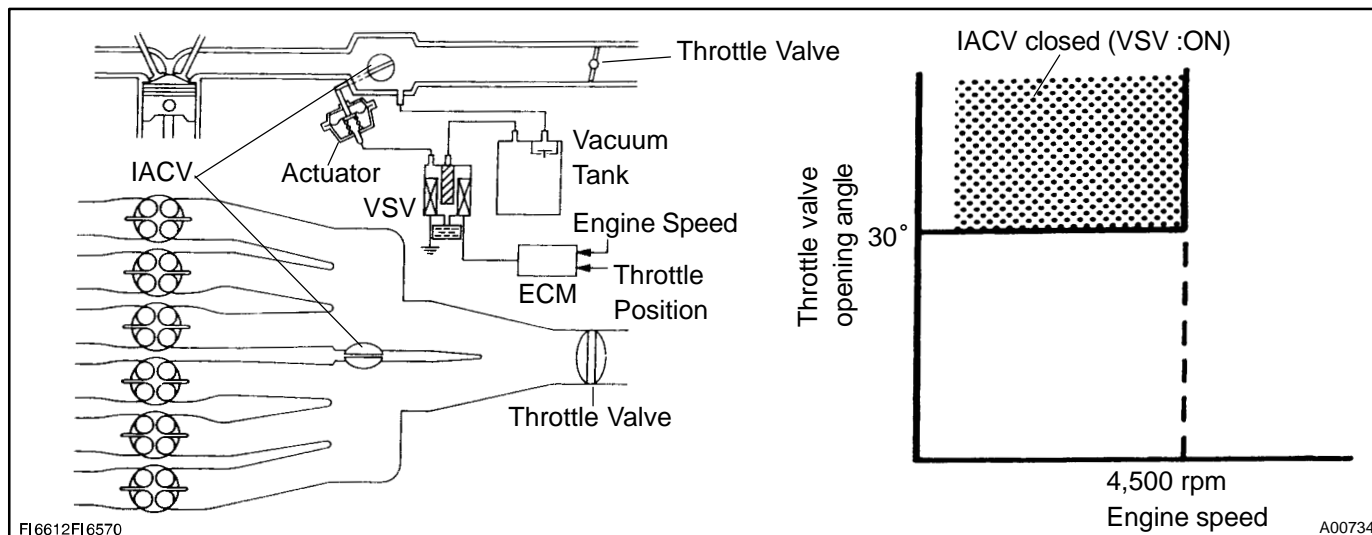


IACV Control Circuit

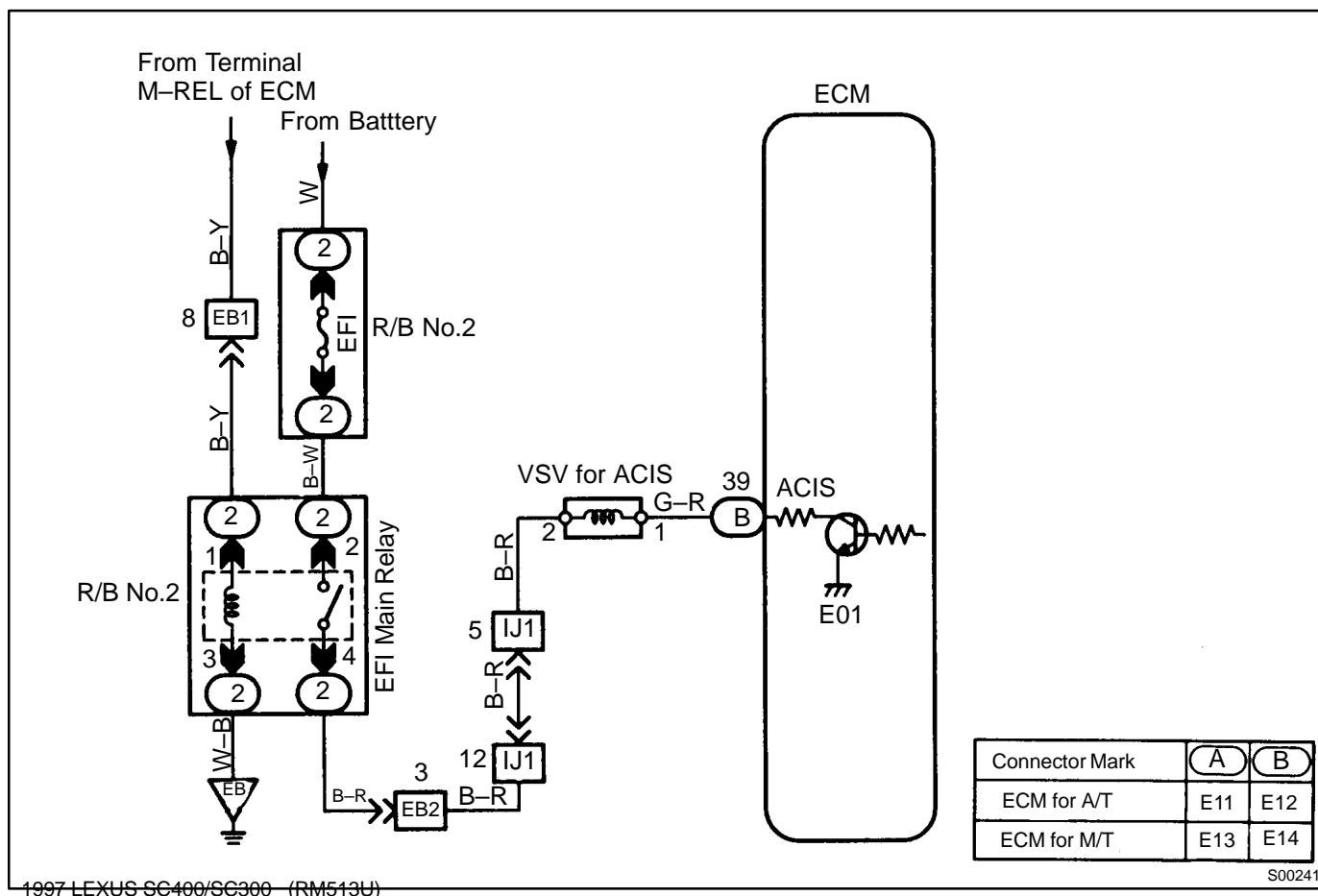
CIRCUIT DESCRIPTION

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 4,500 rpm or less and the throttle valve opening angle is 30° or more, the ECM turns the VSV ON and closes the IACV. At all other times, the VSV is OFF, so the IACV is open.



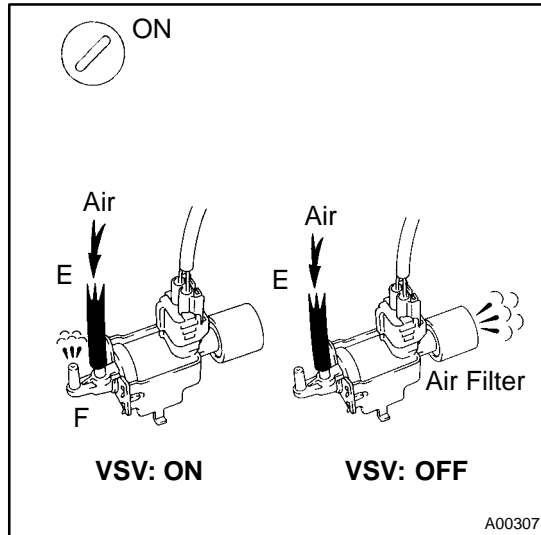
WIRING DIAGRAM



INSPECTION PROCEDURE

LEXUS hand-held tester

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



PREPARATION:

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

CHECK:

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

OK:

VSV on ON:

Air from pipe E flows out through pipe F.

VSV is OFF:

Air from pipe E flows through the air filter.

OK

Check for vacuum tank (See page SF-61).

NG

- 2 Check VSV for ACIS (See page SF-71).**

NG

Replace VSV for ACIS.

OK

- 3 Check for open and short in harness and connector between EFI main relay (Marking: EFI MAIN) and ECM (See page IN-29).**

NG

Repair or replace harness or connector.

OK

Check and replace ECM (See page IN-29).

1997 LEXUS SC400/SC300 (RM513U)

OBDII scan tool (excluding LEXUS hand-held tester)

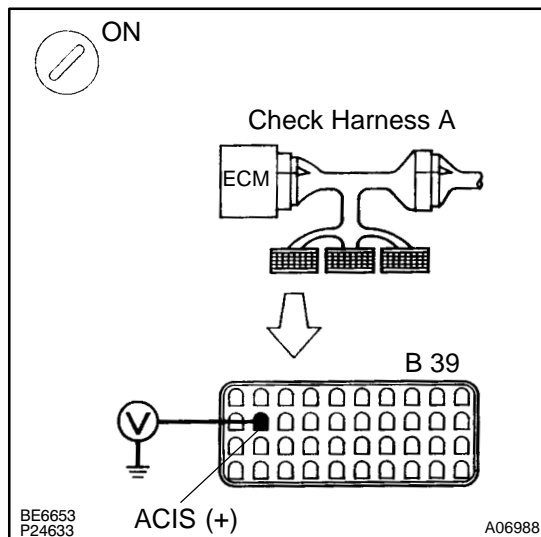
1 Check VSV for ACIS (See page SF-71).

NG

Replace VSV for ACIS.

OK

2 Check voltage between terminal ACIS of ECM connector and body ground.

**PREPARATION:**

- (a) Connect Check Harness A (See page DI-18).
- (b) Turn ignition switch ON.

CHECK:

Measure voltage between terminal ACIS of ECM connector and body ground.

OK:

Voltage: 9 – 14 V

NG

Check for open and short in harness and connector between EFI main relay (Marking: EFI MAIN) and ECM (See page IN-29).

OK

3	Check for vacuum tank (See page SF-61).
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NG

Repair or replace.

OK

Check and replace ECM (See page [IN-29](#)).