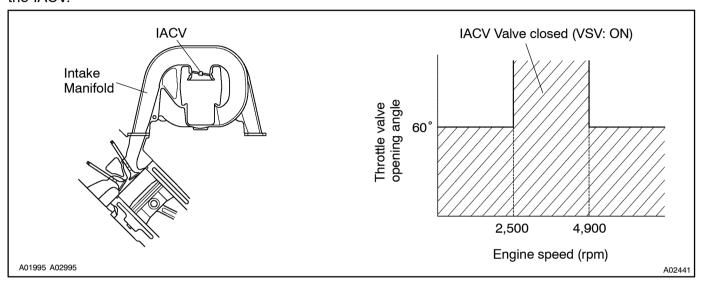
DI1MM-04

IACV Control Circuit

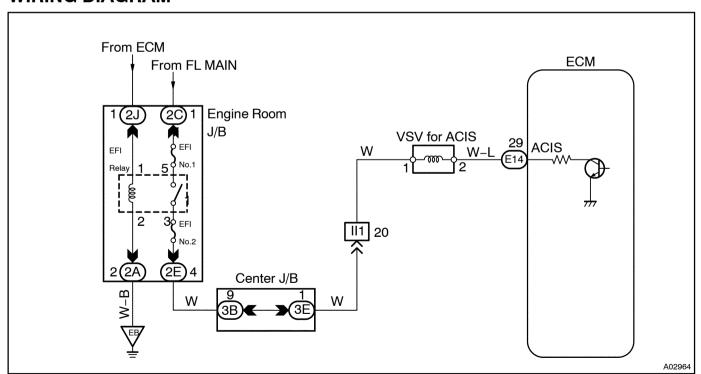
CIRCUIT DESCRIPTION

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

When the engine speed is 2,500 rpm or less, or 4,900 rpm or more and the throttle valve opening angle is 60° or more, the VSV is OFF, so the IACV is open. All the other times, the ECM turns the VSV ON and closes the IACV.



WIRING DIAGRAM

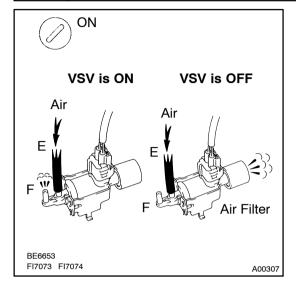


2000 LEXUS LS400 (RM717U)

Author: Date: 339

INSPECTION PROCEDURE LEXUS hand-held tester:

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



PREPARATION:

- (a) Connect the LEXUS hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the LEXUS hand-held tester main switch ON.
- (c) Select the ACTIVE TEST mode on the LEXUS hand-held tester.

CHECK:

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

OK:

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

Check for vacuum tank (See page SF-60).

NG

2 Check VSV for ACIS (See page SF-73).

NG

Replace VSV for ACIS.

OK

3

Check for open and short in harness and connector between EFI main relay (Marking: EFI) and ECM (See page IN-32).

NG

Repair or replace harness or connector.

OK

Check and replace ECM (See page IN-32).

2000 LEXUS LS400 (RM717U)

Author: Date: 340

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

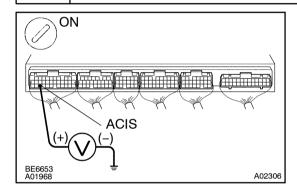
1 Check VSV for ACIS (See page SF-73).

NG

Replace VSV for ACIS.

OK

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



PREPARATION:

- (a) Remove the grove compartment (See page SF-92).
- (b) Turn the ignition switch ON.

CHECK:

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

<u> OK:</u>

Voltage: 9 - 14 V

NG`

Check for open and short in harness and connector between EFI main relay (Marking: EFI) and ECM (See page IN-32).

ок

3 Check for vacuum tank (See page SF-60).

NG

Repair or replace.

OK

Check and replace ECM (See page IN-32).