

DTC	P1692/39	OCV for VVTL Open Malfunction
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DTC	P1693/39	OCV for VVTL Close Malfunction
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CIRCUIT DESCRIPTION

Refer to DTC P1690/39 (OCV for VVTL Circuit Malfunction) on [page DI-123](#).

DTC No.	DTC Detecting Condition	Trouble Area
P1692/39	In the condition that the engine speed is 6,000 rpm or less and the oil pressure switch on for 5 sec. or more.	• Open or short in oil control valve circuit • Oil control valve (for VVTL) • Oil pressure switch for VVTL • Engine ECU
P1693/39	In the condition that the water temperature is 60 °C or more, the engine speed is 6,000 rpm or more, and the oil pressure switch OFF for 1 sec. or more.	

WIRING DIAGRAM

Refer to DTC P1690/39 (OCV for VVTL Circuit Malfunction) on [page DI-123](#).

INSPECTION PROCEDURE

1	Check oil pressure switch for VVTL.
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When using hand-held tester:

PREPARATION:

- Start the engine and warmed it up.
- Connect the hand-held tester and select VVTL from ACTIVE TEST menu.
- Disconnect the oil pressure switch for VVTL connector.
- Maintain engine speed at 6,500 rpm.

CHECK:

Measure continuity between the oil pressure switch and body ground when operate the OCV by the hand-held tester.

OK:

VVTL system is OFF (OCV is OFF):

No continuity

VVTL system is ON (OCV is ON):

Continuity

When not using hand-held tester:

PREPARATION:

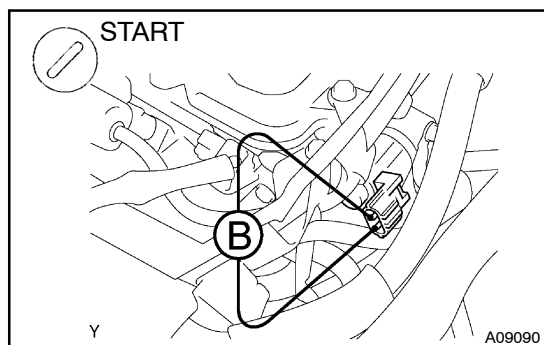
- Disconnect the oil pressure switch for VVTL connector.
- Ignition switch OFF.

CHECK:

Measure continuity between the oil pressure switch and body ground.

OK:

No continuity

**PREPARATION:**

- (a) Start the engine and warmed it up.
- (b) Disconnect the OCV for VVTL connector.
- (c) Maintain engine speed at 6,500 rpm.

CHECK:

Measure continuity between the oil pressure switch and body ground when apply battery voltage between terminals of the OCV.

OK:**Continuity****NG****Replace oil pressure switch.****OK**

- 2** Check for open and short in harness and connector between oil pressure switch for VVTL and engine ECU ([See page IN-20](#)).

NG**Repair or replace.****OK**

- 3** Check OCV for VVTL ([See page FI-42](#)) and oil filter.

NG**Repair or replace OCV or filter.****OK**

- 4** Check for open and short in harness and connector between OCV for VVTL and engine ECU ([See page IN-20](#)).

NG**Repair or replace.****OK**

Check and replace engine ECU
([See page IN-20](#)).