DI64I -01

DTC	P1656/39	OCV Circuit Malfunction (Bank 1)
DIC	F1050/59	

## **CIRCUIT DESCRIPTION**

#### Refer to DTC P1349/39 on page DI-123.

DTC No.	DTC Detecting Condition	Trouble Area
P1656/39	Open or short in oil control valve circuit	Open or short in OCV circuit OCV
		Engine ECU

## WIRING DIAGRAM

Refer to DTC P1349/39 on page DI-123.

## **INSPECTION PROCEDURE**

### When using hand-held tester:

HINT:

Read freeze frame data using hand-held tester. Because freeze frame records the engine conditions when the malfunction is detected. When troubleshooting it is useful for determining whether the vehicle was running or stopped, the engine was warmed up or not, the air-fuel ratio was lean or rich, etc. at the time of the malfunction.

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Check OCV circuit.

#### **PREPARATION:**

(a) Start the engine and warmed it up.

(b) Connect the hand-held tester and select the VVT from the ACTIVE TEST menu.

#### CHECK:

Check the engine speed when operate the OCV by the hand-held tester.

<u>OK:</u>

VVT system is OFF (OCV is OFF): Normal engine speed

VVT system is ON (OCV is ON): Rough idle or engine stalled



NG





OK

3 Check voltage between terminals OCV+ and OCV- of engine ECU connector (See page DI-123, step 3).



## ΟΚ

4	Check for open and short in harness and connector between OCV and engine ECU (See page IN-32).	
	NG Repair or replace.	
ОК		
Chec DI-4)	k for intermittent problems ( <mark>See page</mark>	

## When not using hand-held tester:

## 1 Check operation of OCV.



ОК

2	Check voltage between terminals OCV+ and OCV- of engine ECU connector (See
	page DI–123, step 3).



## ОК

3	Check for open and short in harness and connector between OCV and engine ECU (See page IN-32).	
	NG Repair or replace.	
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# Check for intermittent problems (See page DI-4).