DI2SQ-02

DTC P1656/39 OCV Circuit Malfunction (bank 1)

CIRCUIT DESCRIPTION

Refer[]o[DTC[P1349/39[VVT[\$ystem[Malfunction)]on[page[DI-106.]

DTC[No.	DTC[Detecting[Condition	Trouble[A rea
P1656/39		Open@r[short[]n@il@ontrol[yalve@ircuit Oil@ontrol[yalve Engine[ECU

WIRING DIAGRAM

Refer[]o[DTC[P1349/39[]VVT[\$ystem[Malfunction]]@n[page[]for[]he[DI-106 WIRING[DIAGRAM.

INSPECTION PROCEDURE

HINT:

• Read[freeze[frame[data[using[hand-held[tester.[Because[freeze[frame[records[the]engine[conditions when[the]malfunction[is[detected,[when[troubleshooting[it][s]]useful[for[determining[whether[the]yehicle was[funning[]]r[stopped,[the]engine[warmed[]]up[]pr[]hot,[the]air-fuel[fatio[]]ean[]pr[]ich,[etc.[at[]]he[]]ime of[]the[]malfunction.

When using hand-held tester

1 Check OCV circuit.

PREPARATION:

(a) Start he engine and warmed tup.

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

CHECK:

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

<u> OK:</u>

VVT[\$ystem[]s[OFF[[OCV[]s[OFF]:

Normal engine speed

VVT[system[is[ON[(OCV[is[ON):

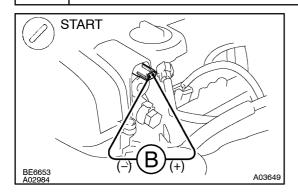
Rough[idle@r@ngine[stalled

OK□

Check[for[intermittent[problems (See[page[DI-4)]]

NG

2 Check operation of OCV.



PREPARATION:

- (a) Start he engine and warmed tup.
- (b) Disconnect the OCV connector.
- (c) Apply[battery[bositive[voltage[between[]erminals[bf[]]he OCV.

CHECK:

Check the engine speed.

OK:

Rough idle or engine stalled.

NG

Replace OCV.

OK

3 Check[voltage[between[terminals[OCV+[and[OCV-[of[engine[ECU]connector (See[page[DI-106,[step[3]).



Check and replace engine ECU (See page IN-29).

OK

4 Check for open and short in harness and connector between OCV and engine ECU (See page N-29).

NG□

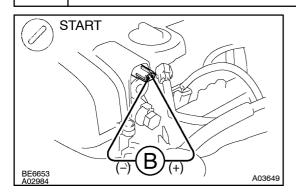
Repair or replace.

ОК

Check[for[intermitent[problems (See[page[DI-4)]]

When inot using in and held itester

1 Check operation of OCV.



PREPARATION:

- (a) Start the engine and warmed tup.
- (b) Disconnect the OCV connector.
- (c) Apply battery positive voltage between erminals of the OCV.

CHECK:

Check[the[engine[speed.

<u>OK:</u>

Rough idle or engine stalled

NG□

Replace OCV.

ОК

2 Check[voltage[between[terminals[OCV+[and[OCV-[of[engine[ECU]connector (See[page[DI-106,[step[3]).

NG[]

Check and replace engine ECU (See page IN-29).

OK

3 Check for open and short in harness and connector between OCV and engine ECU (See page IN-29).

NG

Repair or replace.

OK

Check for intermitent problems (See page DI-4)