DTC

P0505/33 | IDLE CONTROL SYSTEM MALFUNCTION

CIRCUIT DESCRIPTION

The idle speed is controlled by the ECTS (Electric Throttle Control system). ETCS is composed of the intottle motor in operate the identity alve, the imagnetic clutch in connect the identity alve, identity a

DTC[No.	DTC[Detection[Condition	Trouble∏Area
P0505/33	Idle[speed[continues[]o[vary[greatly[]rom[]arget[speed (2[]rip[detection[]ogic)	Electric[hrottle[control[system

INSPECTION PROCEDURE

HINT:

Read freeze frame data using hand-held tester. Because freeze frame data records the engine conditions when final function is detected. When froubleshooting, it is useful for determining whether the vehicle was running or stopped, the engine was warmed up frout, the fair-fuel was fatio ean or fich, etc. at the final function.

When using Hand-held Tester:

1□	RFΔD	OLITPI	JT[DTC
•	ILLAD	POII (J 1 P 1 C

Display	Type
P0505	Α
P0505@and@any@ther@ords	В

GO TO RELEVANT DTC CHART

Α

2 CHECK[AIR[INDUCTION[\$YSTEM[(See[Page 10-7)

NG > REPAIR OR REPLACE AIR INDUCTION SYSTEM

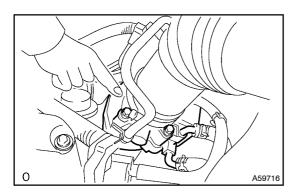
OK

3 CHECK CONNECTION OF PCV HOSE

NG REPAIR OR REPLACE CONNECTION OF PCV

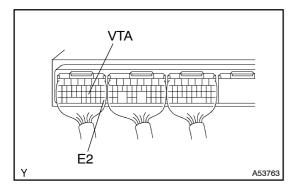
OK

4 | INSPECT|THROTTLE|BODY|CIRCUIT



- (a) Inspect the throttle control motor operation.
 - (1) Start he engine.
 - (2) When depressing the accelerator pedal, check the operating sound of the motor.
- (b) Using a hand-held tester, theck that the throttle valve opening percentage THROTTLE POS) of the CURRENT DATA when depressing the accelerator pedal full.

Standard: 60% or more



- (c) TurnthellG[switch[ON.
- (d) Measure the voltage between £10 £CM terminals VTA and £2.

Standard: 9 - 14 V

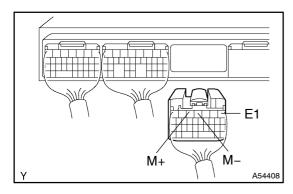
(e) Check the delegate 14-66).



REPAIR OR REPLACE THROTTLE BODY ASSY (See Page 10-12)

OK

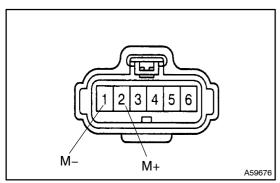
5 CHECK[WIRE[HARNESS(ECM -[THROTTLE[BODY[ASSY)



- (a) ☐ Disconnect The Throttle Tody Connector.
- (b) ☐ Disconnect The E8 ECM connector.
- (c) Check the continuity between terminals.

Standard:

Throttle[body[lerminal	E8[ECM[]erminal	Continuity
M+[[2]	M+[[E8-5)	Continuity
M-[[1]	M- (E8-4)	Continuity
M+ (2)	E1 (E8-1)	No continuity
M- (1)	E1 (E0-1)	No continuity



NGĎ

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

6 INSPECT[THROTTLE[BODY[ASSY(THROTTLE[POSITION[\$ENSOR) (See[Page[05-168)]

NG□

REPLACE[THROTTLE[BODY[ASSY

OK

7 CHECK[WIRE[HARNESS(ECM -[THROTTLE[POSITION[SENSOR) (See[Page05-168)

NG

OK

REPLACE ECM

When not using Hand-held Tester:

1 | CHECK[AIR[INDUCTION[\$YSTEM[\$ee[Page10-7]

NG□

REPAIR OR REPLACE AIR INDUCTION SYSTEM

OK

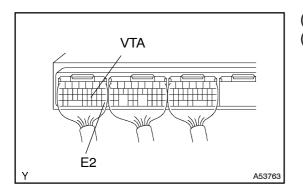
2 CHECK CONNECTION OF PCV HOSE

NG

 $\begin{array}{ll} \textbf{REPAIR} _ \textbf{OR} _ \textbf{REPLACE} _ \textbf{CONNECTION} _ \textbf{OF} _ \textbf{PCV} \\ \textbf{HOSE} \end{array}$

OK

3 | CHECK[ECM(CHECK[VOLTAGE)



- (a) Turnthe ignition witch ON.
- (b) Measure the voltage between £10 £CM terminals VTA and £2.

Standard: 9 - 14 V

NG□

REPAIR OR REPLACE THROTTLE BODY ASSY

OK

4 | CHECK[WIRE[HARNESS(ECM -[THROTTLE[BODY[ASSY)

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

5 INSPECT THROTTLE BODY ASSY (See Page 5-168)

NG

REPAIR OR REPLACE THROTTLE BODY ASSY

OK

6 CHECK WIRE HARNESS(ECM – THROTTLR POSITION SENSOR) (See[Page05-168)

NG \

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE ECM