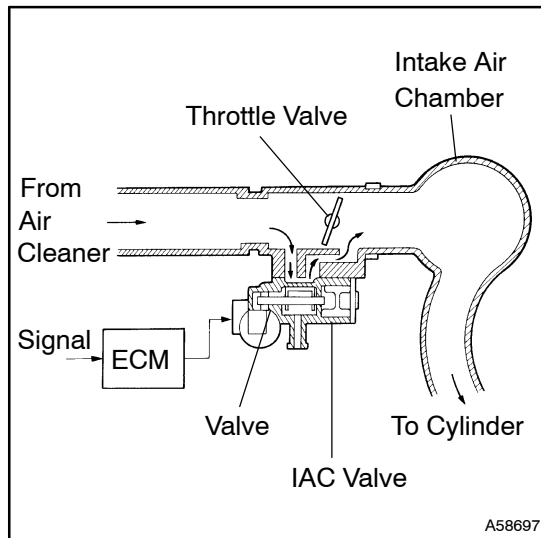


DTC	P0505/33	IDLE CONTROL SYSTEM MALFUNCTION
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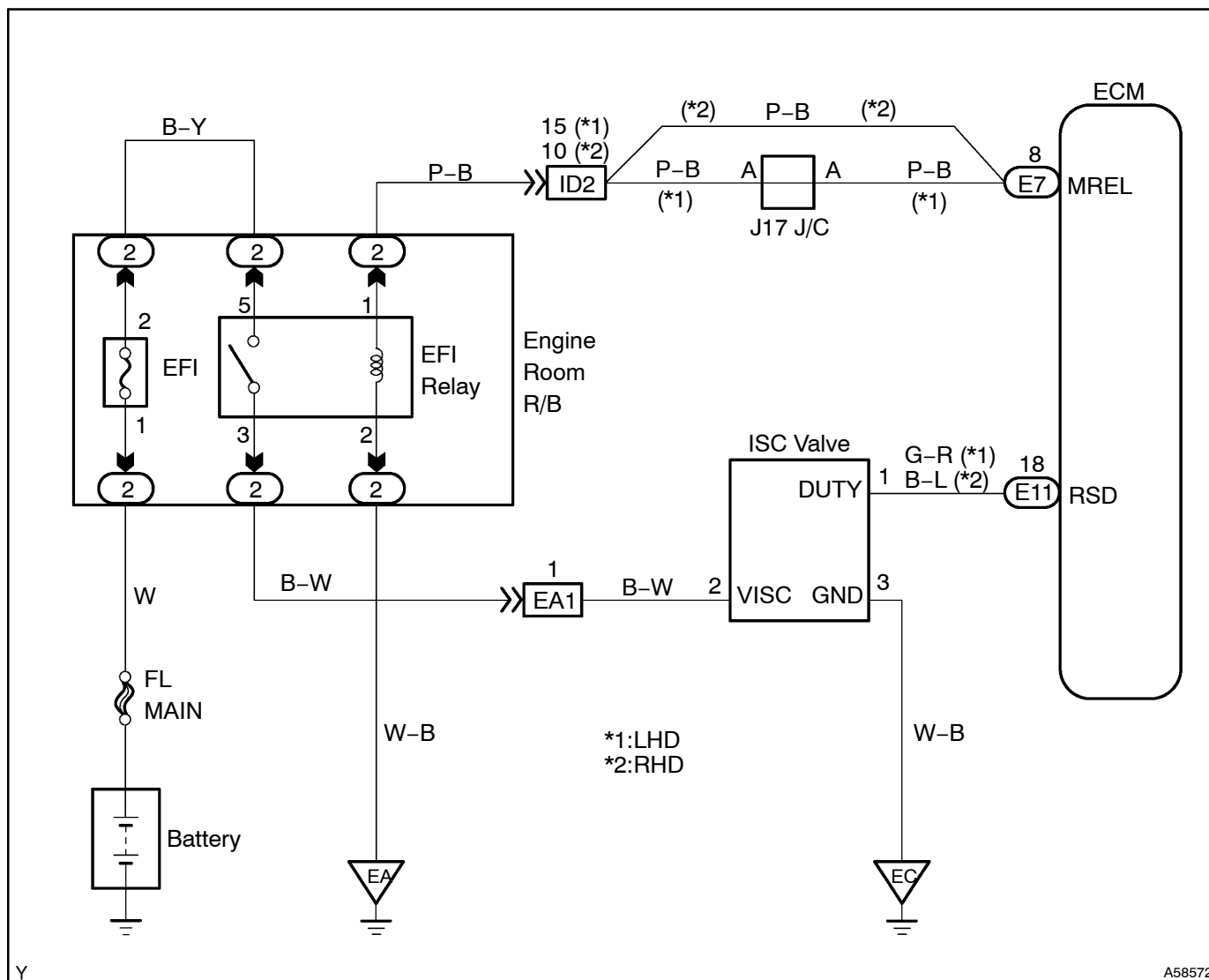
CIRCUIT DESCRIPTION



The rotary solenoid type ISC valve is located under the throttle body and intake air bypassing the throttle valve is directed to the ISC valve through the passage. In this way the intake air volume bypassing the throttle valve is regulated, controlling the engine speed. The ECM operates the ISC valve only to perform idle-up and provide feedback for the target idling speed.

DTC No.	DTC Detecting Condition	Trouble Area
P0505/33	Idle speed continues to be apart greatly from target speed	<ul style="list-style-type: none"> • Open or short in ISC valve circuit • ISC valve is stuck or closed • Open or short in A/C switch circuit • Air induction system • ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

Read freeze frame data using the hand-held tester, as freeze frame data 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.

When using hand-held tester:

1	DO ACTIVE TEST OF HAND-HELD TESTER(CHECK OPERATION OF THE ISC VALVE)
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- Warm up the engine to the normal operating temperature.
- Switch off all the accessories.
- Switch off the A/C.
- Shift the lever into the neutral position.
- Connect the hand-held tester to the DLC3 on the vehicle.
- Check the difference of the engine speed in less than 5 seconds and more than 5 seconds.

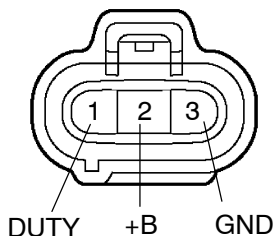
Difference of engine speed: More than 100 rpm.

OK

CHECK FOR INTERMITTENT PROBLEMS

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2 CHECK WIRE HARNESS OR CONNECTOR



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- (a) Disconnect the ISC valve connector.
- (b) Turn the ignition switch ON.
- (c) Measure voltage between terminals +B and GND of the ISC valve connector.

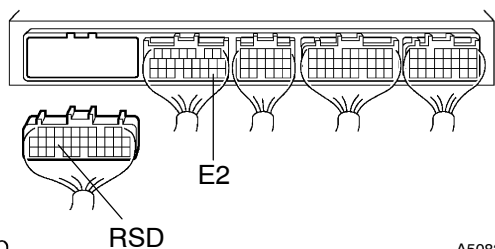
Voltage: 9 – 14 V

NG

REPAIR OR REPLACE WIRE HARNESS OR CONNECTOR

OK

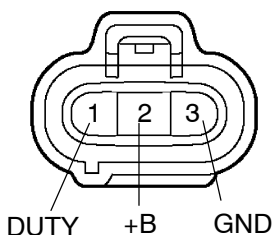
3 CHECK WIRE HARNESS OR CONNECTOR(RSD CIRCUIT)



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- (a) Disconnect the ECM E11 connector.
- (b) Disconnect the ISC valve connector.
- (c) Check continuity between the terminals RSD of the ECM connector and 1 of the ISC valve connector.
- (d) Check for short between the terminals RSD of the ECM connector and E2 of the ECM connector.

Resistance: 1 Ω or less**Resistance: 1 M Ω or more**

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REPAIR OR REPLACE WIRE HARNESS OR CONNECTOR

OK

4 INSPECT THLOTTLE BODY IDLE SPEED CONTROL VALVE ASSY

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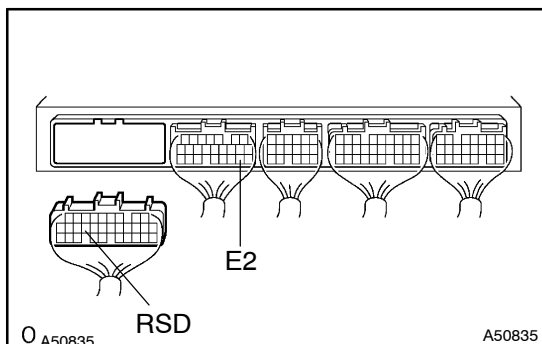
REPLACE THLOTTLE BODY IDLE SPEED CONTROL VALVE ASSY

OK

CHECK AND REPLACE ECM

When not using hand-held tester:

1 INSPECT ECM (CHECK VOLTAGE)



- (a) Disconnect the ECM valve connector.
- (b) Turn the ignition switch ON.
- (c) Measure voltage between terminals RSD and E2 of the ECM valve connector.

Voltage: 9 - 14 V

OK

Go to step 3

NG

2 CHECK THROTTLE BODY IDLE SPEED CONTROL VALVE ASSY
(See page 10-2)

NG

REPLACE THROTTLE BODY IDLE SPEED CONTROL VALVE ASSY

OK

REPAIR OR REPLACE WIRE HARNESS OR CONNECTOR

3 CHECK THROTTLE BODY IDLE SPEED CONTROL VALVE ASSY
(See page 10-2)

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REPAIR OR REPLACE THROTTLE BODY IDLE SPEED CONTROL VALVE ASSY

OK

4 CHECK BLOCKAGE OF ISC VALVE AND PASSAGE TO BYPASS THROTTLE VALVE

NG

REPAIR OR REPLACE THROTTLE BODY IDLE SPEED CONTROL VALVE ASSY

OK

CHECK AND REPLACE ECM