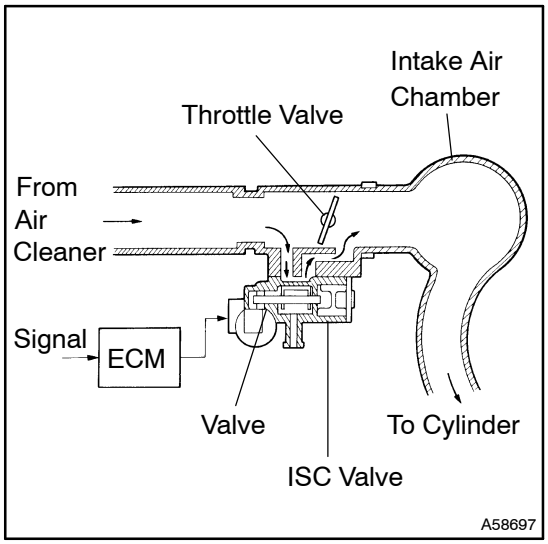
DTC 33 IDLE SPEED CONTROL SYSTEM

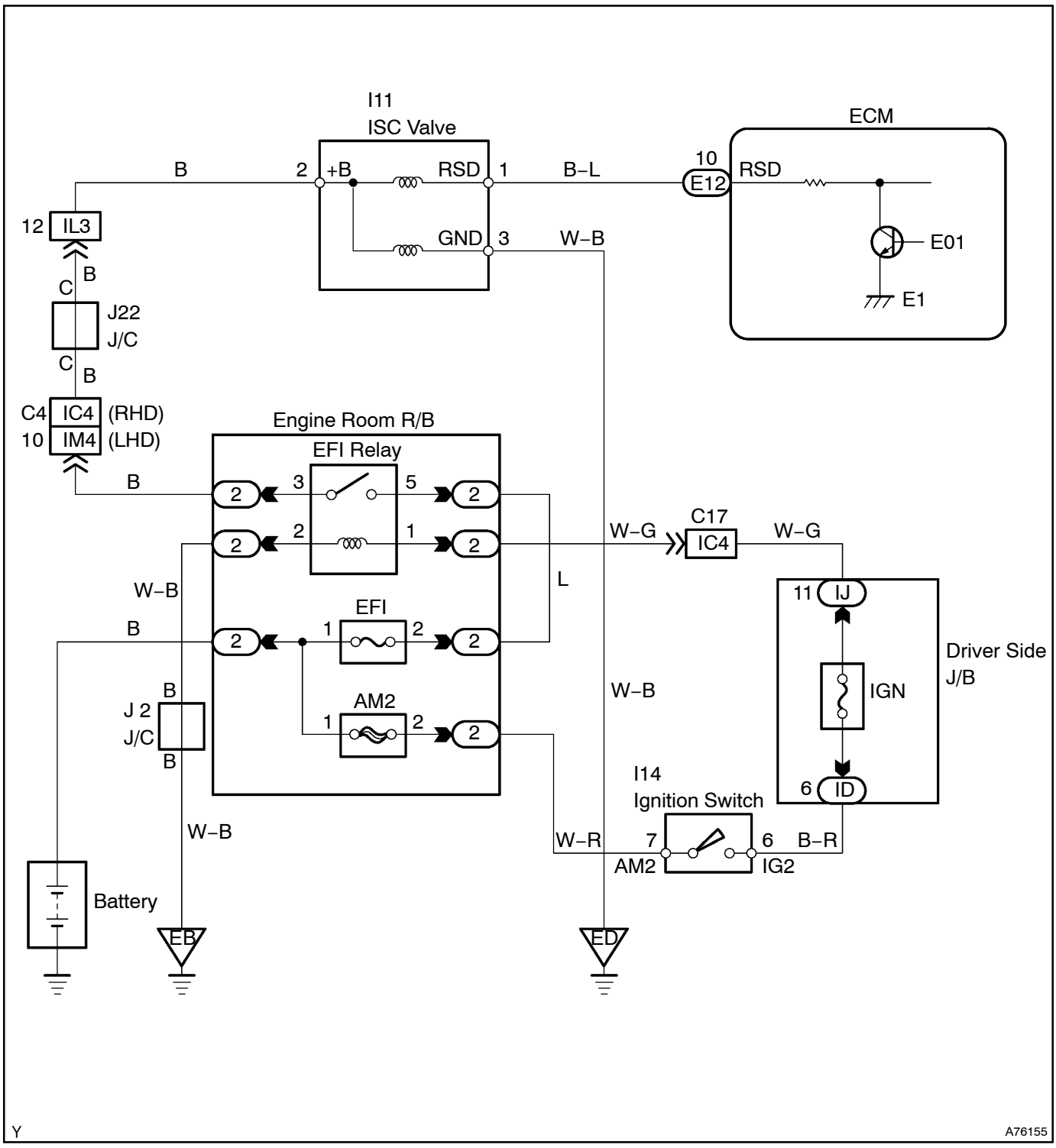
CIRCUIT DESCRIPTION



The rotary solenoid type ISC valve is located in under of 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 only the ISC valve to perform idle–up and provide feedback for the target idling speed.

DTC No	DTC Detecting Condition	Trouble Area
33	Idle speed continues to very greatly from target speed	• Open or short in ISC valve circuit • ISC valve is stuck or closed • Open or short in A/C switch circuit • Air induction system • ISC valve • ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK AIR INDUCTION SYSTEM

NG → REPAIR OR REPLACE

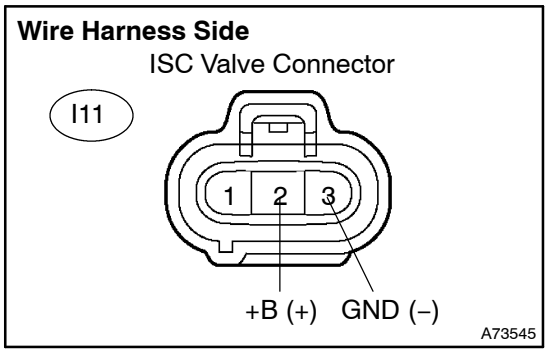
OK

2	CHECK FOR A/C SIGNAL CIRCUIT

NG → REPAIR OR REPLACE

OK

3	CHECK HARNESS AND CONNECTOR (ISC VALVE POWER SOURCE)



(a) Disconnect the I11 ISC valve connector.
(b) Turn the ignition switch ON.
(c) Measure the voltage between the wire harness side connector.

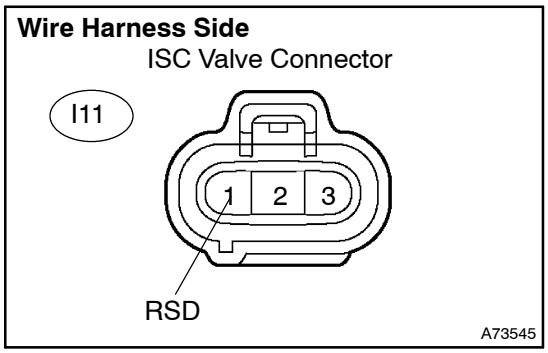
Voltage:

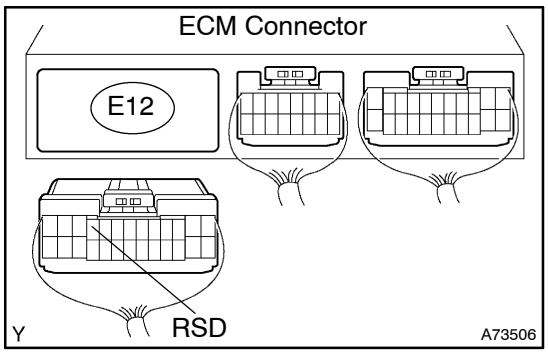
Symbols (Terminal No.)	Specified condition
+B (I11–2) ⇔ GND (I11–3)	9 – 14 V

NG → Go to step 7

OK

4	CHECK HARNESS AND CONNECTOR (ISC VALVE ASSY ⇔ ECM)





(a) Disconnect the I11 ISC valve connector.
(b) Disconnect the E12 ECM connector.
(c) Check the continuity between the wire harness side connectors.

Standard (Check for open):

Symbols (Terminal No.)	Specified condition
RSD (I11–1) ⇔ RSD (E12–10)	Continuity

Standard (Check for short):

Symbols (Terminal No.)	Specified condition
RSD (I11–1) or RSD (E12–10) ⇔ Other terminal and body ground	No continuity

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

5	INSPECT THLOTTLE BODY IDLE SPEED CONTROL VALVE ASSY (See page 10–5)

NG → REPLACE THLOTTLE BODY IDLE SPEED CONTROL VALVE ASSY

OK

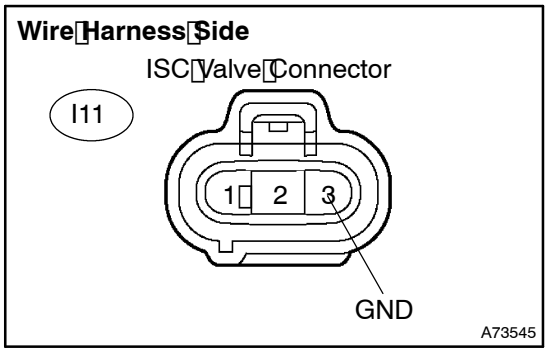
6	CHECK BLOCKAGE OF IAC VALVE AND PASSAGE TO BYPASS THROTTLE VALVE.

NG → REPAIR OR REPLACE THLOTTLE BODY IDLE SPEED CONTROL VALVE ASSY

OK

CHECK AND REPLACE ECM (See page 01–36)

7	CHECK HARNESS AND CONNECTOR (GROUND)



(a) Disconnect the I11 ISC valve connector.
(b) Check the continuity between the wire harness side connector.

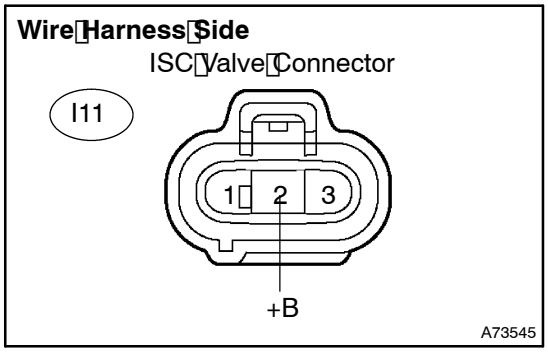
Standard (Check for open):

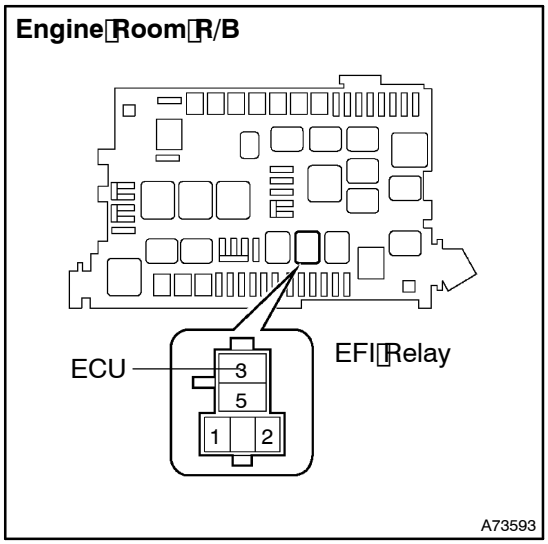
Symbols (Terminal No.)	Specified condition
GND (I11–3) ⇔ Body ground	Continuity

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

8	CHECK HARNESS AND CONNECTOR (ISC VALVE ASSY ⇔ EFI RELAY)





(a) Disconnect the I11 ISC valve connector.
(b) Remove the EFI relay.
(c) Check the continuity between the wire harness side connectors.

Standard (Check for open):

Symbols (Terminal No.)	Specified condition
+B (I11 – 2) ⇔ ECU (EFI relay terminal 3 of R/B)	Continuity

Standard (Check for short):

Symbols (Terminal No.)	Specified condition
+B (I11 – 2) or ECU (EFI relay terminal 3 of R/B) ⇔ Body ground	No continuity

NOTICE:
Do not insert the tester hard in the procedure (c), or the holder may be damaged.

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

CHECK FOR ECM POWER SOURCE CIRCUIT (See page 05–46)