DI3UJ–01

DTC	51	Switch Condition Signal Circuit

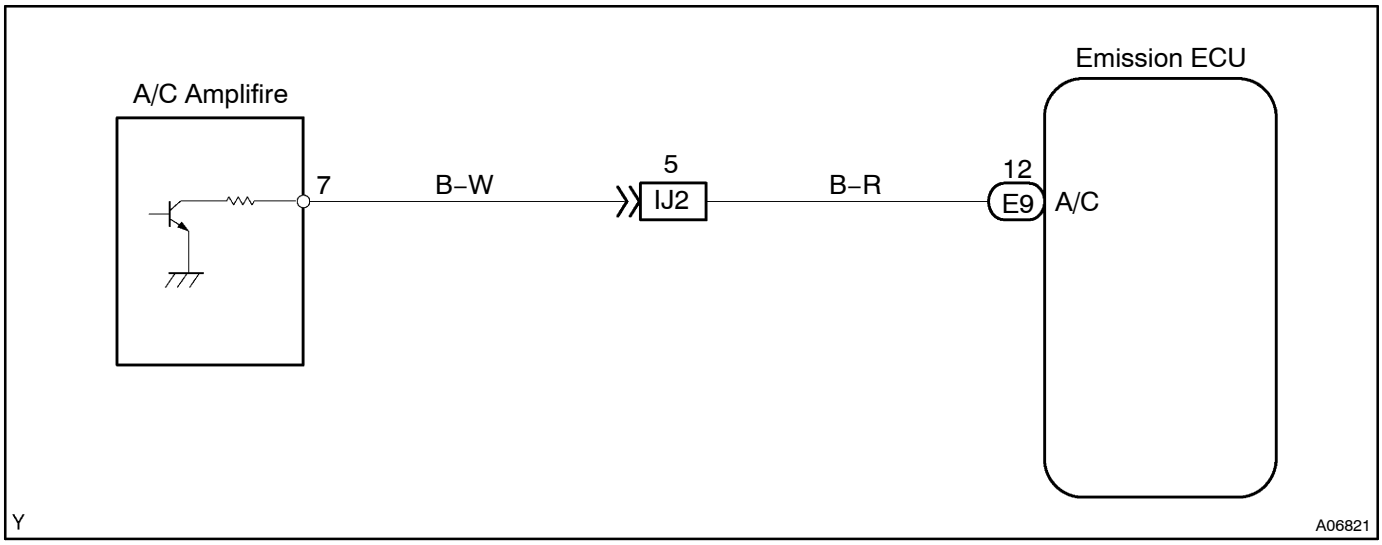
CIRCUIT DESCRIPTION

Air Conditioning Switch Signal

The ECU uses the output from the air conditioning switch to determine whether or not the air conditioning is operating so that it can increase the idling speed of the engine if necessary.

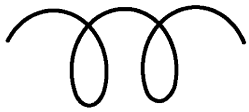
DTC No.	DTC Detecting Condition	Trouble Area
51	A/C switch ON, engine starts idle switch OFF	• A/C switch circuit • Emission ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1	**Check output condition of diagnostic trouble code 51.**



Glow Indicator Light

A06505

PREPARATION:

(a) Turn ignition switch ON.

(b) Using SST, connect terminals TE1 and E1 of check connector.

SST 09843–18020

CHECK:

Check if code ”51” is output by the check glow indicator light.

OK:

	Condition	Code
A/C Switch (A/C)	A/C SW ON	51
	A/C SW OFF	Normal

HINT:

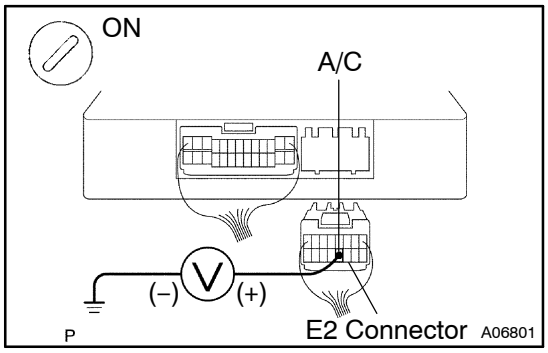
Diagnostic trouble code 42 output with vehicle speed 5 km/h (3 mph) or below.

NG → **Go to step 2.**

OK

Proceed to next circuit inspection shown on problem symptoms table.
(See page DI–12)

2	Disconnect A/C amplifier connector, check voltage between terminal A/C of A/C amplifier connector and body ground.



PREPARATION:

(a) Disconnect the emission ECU from the body panel. (See page EC–10)
(b) Disconnect the "E2" connector of emission ECU.
(c) Disconnect A/C amplifier connector.
(d) Turn ignition switch ON.

CHECK:

Measure voltage between terminal A/C of A/C amplifier connector and body ground.

OK:

Voltage: 18 – 28 V

OK	Check and replace A/C amplifier.

NG

3	Check for open and short in harness and connector between emission ECU and A/C amplifier. (See page IN–19)

NG	Repair or replace harness or connector.

OK

Check and replace emission ECU.