DIDYH-01

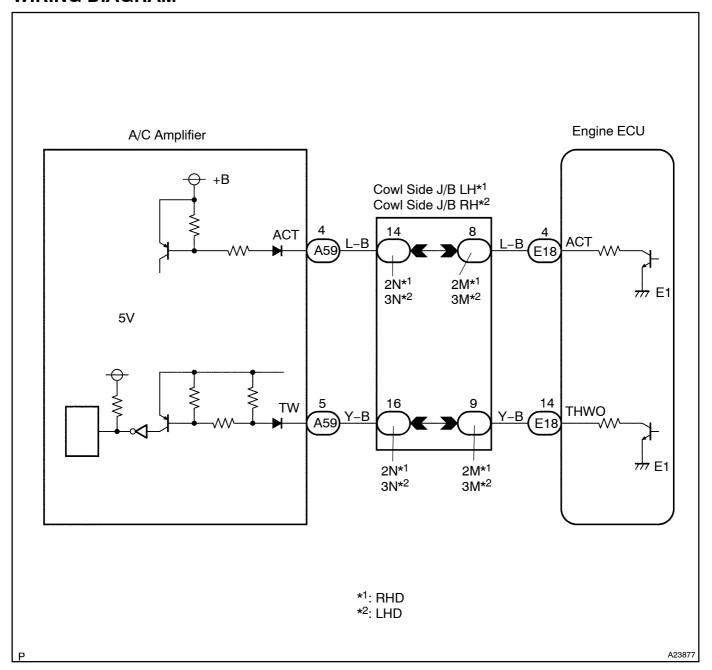
A/C Cut Control Circuit

CIRCUIT DESCRIPTION

This circuit cuts air conditioning operation during vehicle acceleration in order to increase acceleration performance. During acceleration with the vehicle speed at 30 km/h (19 mph) or less and accelerator pedal opening angle at 45° or more, the A/C magnetic switch is turned OFF for several seconds.

The air conditioning is also controlled by the ECU outputting the engine coolant temperature to the A/C amplifier.

WIRING DIAGRAM



INSPECTION PROCEDURE

When using intelligent tester it:

1[

Connect[intelligent[tester[]]and[check[operation[of[air[conditioning[cut[control.

PREPARATION:

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the signition switch ON and bush the intelligent tester switch ON.
- (c) Start the engine and air conditioning switch ON.

HINT:

A/C imagnetic clutch is turned ON.

(d) ☐ Select The 「Active Test I mode on The intelligent Tester II.

CHECK:

Check[]he[]A/C[]magnetic[]clutch[]cut[]peration[]when[]he[]air[]conditioning[]cut[]control[]s[]perated[]by[]he[]ntelligent[]ester[]l.

OK:

A/C[magnet[clutch[]s[turned[OFF.



Proceed to next circuit inspection shown on problem[symptoms[table[See[page[DI-15]]]

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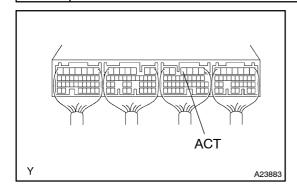
2 Check for open and short in harness and connector between engine ECU and A/Camplifier(Seepage(N-19))

NG

Repair or replace harness or connector.

OK

3 Check voltage between terminal ACT of engine ECU and body ground.



PREPARATION:

- (a) Remove the glove compartment door.
- (b) Start the engine.

CHECK:

Measure the voltage between terminal ACT of the engine ECU connector and body ground when the A/C switch is turned to ON and OFF.

OK:

A/C switch condition	Voltage
ON	9 to 14 V
OFF	0 to 3 V

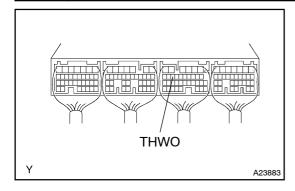
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Check and replace A/C amplifier.

OK

4

Check voltage between terminal THWO of engine ECU and body ground.



PREPARATION:

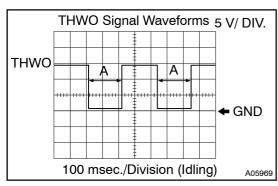
- (a) Remove the glove compartment door.
- (b) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminal THWO of the engine ECU and body ground.

OK:

Voltage is generated intermittently.



Reference: INSPECTION USING OSCILLOSCOPE

During idling, check the waveform between terminals THWO and E1 of the engine ECU.

HINT:

The correct waveform is as shown.

Water temp.	30°C (86°F)	Approx.	90°C (194°F)
	or less	75°C (167°F)	or more
Α	65 msec.	335.8 msec.	393 msec.

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Check and replace A/C amplifier.

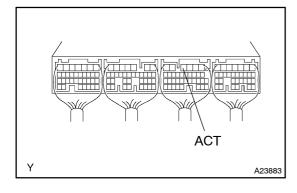
ОК

1

Check[and[replace[engine[ECU[[See[page[]N-19]]]]

When not using intelligent tester II:

Check voltage between terminal ACT of engine ECU and body ground.



PREPARATION:

- (a) Remove the glove compartment door.
- (b) Start the engine.

CHECK:

Measure voltage between terminal ACT of engine ECU connector and body ground when A/C switch is turned to ON and OFF.

OK:

A/C switch condition	Voltage
ON	9 to 14 V
OFF	0 to 3 V

OK

Check and replace engine ECU (See[page[N-19]]

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2 Check voltage between terminal THWO of engine ECU and body ground (See page DI-141 \$tep 4).

OK

Check and replace engine ECU (See page N-19)

NG

Check for open and short in harness and connector between engine ECU and A/C[amplifier[(See[page[]N-19])]

NG

Repair or replace harness or connector.

OK

Check and replace A/C amplifier.