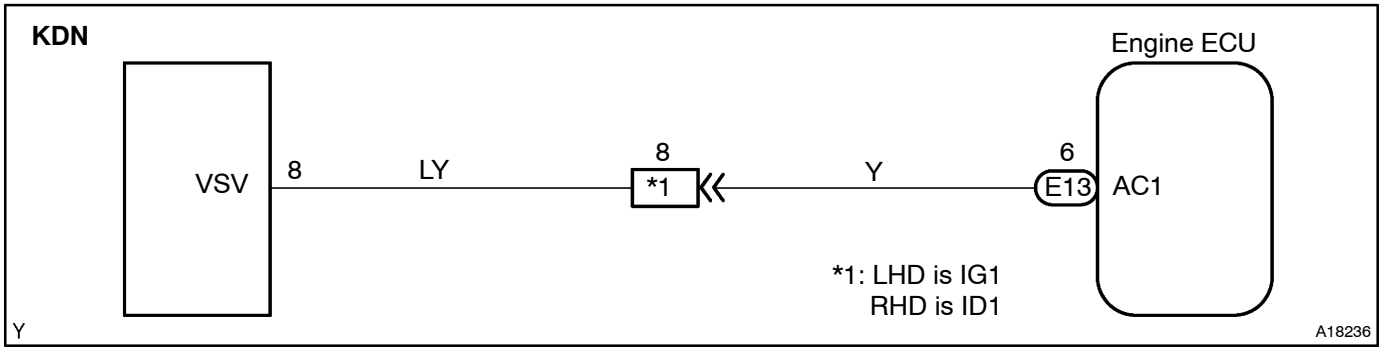
DI9SE–01

A/C Signal Circuit

CIRCUIT DESCRIPTION

When the A/C compressor is ON, the A/C amplifier sends the A/C signal to the engine ECU, then engine ECU increases the fuel injection volume to improve driveability during engine idling.

WIRING DIAGRAM



INSPECTION PROCEDURE

When using hand–held tester:

1	**Check A/C signal on hand–held tester.**

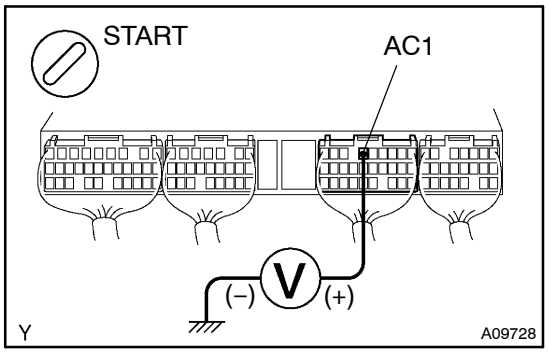
OK:

A/C Switch Condition	OFF	ON
A/C Signal	OFF	ON

OK → **Proceed to next circuit inspection shown on problem symptoms table (See page DI–22).**

NG

2	**Check voltage between terminal AC1 of engine ECU and body ground.**



PREPARATION:

(a) Remove the glove compartment box.

(b) Start the engine.

CHECK:

Measure the voltage between terminal AC1 and body ground when the A/C switch is turned to ON and OFF.

OK:

A/C Switch Condition	Voltage
ON	Below 1.5 V
OFF	9 – 14 V

OK	**Check and replace engine ECU (See page IN–20).**

NG

3	**Check for open and short in harness and connector between engine ECU and A/C amplifier (See page IN–20).**

NG	**Repair or replace harness or connector.**

OK

Check and replace A/C amplifier.

When not using hand–held tester:

1	**Check voltage between terminal AC1 of engine ECU connector and body ground (See step 2 when using hand–held tester).**

OK	**Proceed to next circuit inspection shown on problem symptoms table (See page DI–22).**

NG

2	**Check for open and short in harness and connector between engine ECU and A/C amplifier (See page IN–20).**

NG → **Repair or replace harness or connector.**

OK

Check and replace A/C amplifier.