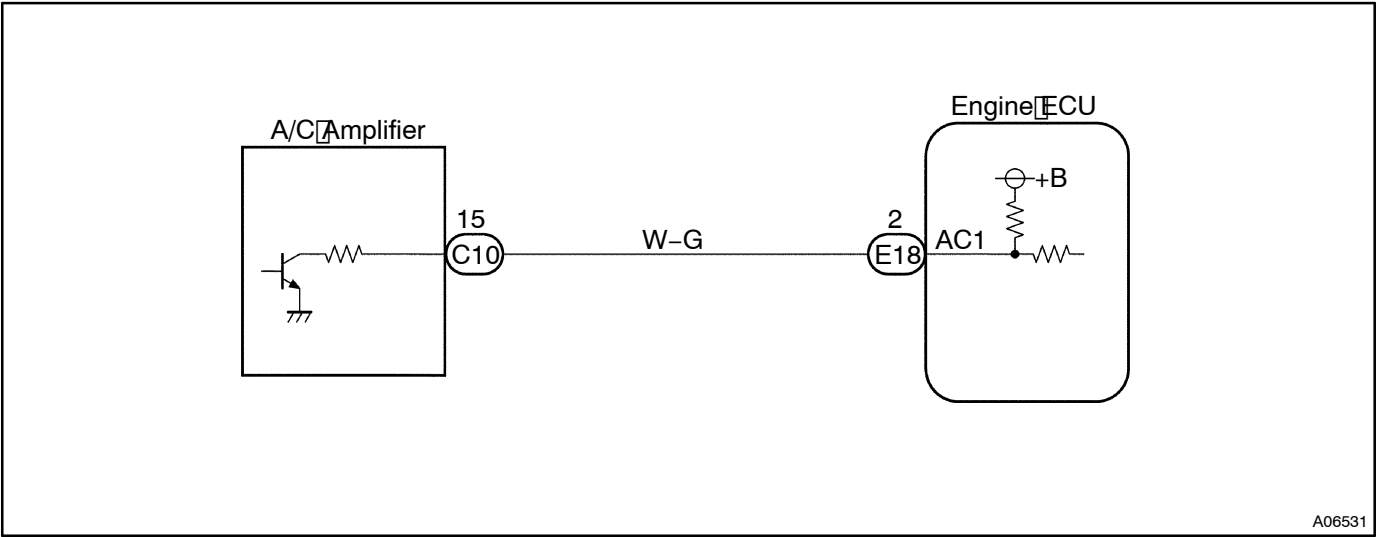


# A/C Signal Circuit

## 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	Connect the hand-held tester and check A/C signal.
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#### PREPARATION:

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the hand-held tester main switch ON.

#### CHECK:

Read A/C signal on the hand-held tester while A/C compressor is ON.

#### OK:

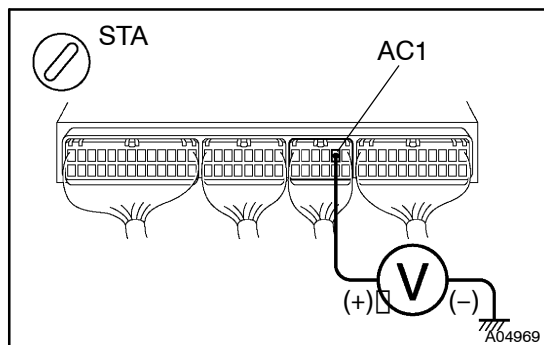
A/C switch condition	OFF	ON
A/C signal	OFF	ON

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-19)

NG

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



### PREPARATION:

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

### CHECK:

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

### OK:

A/C switch condition	Voltage
ON	Below 0.5V
OFF	9 - 14V

OK

Check and replace engine ECU  
(See page IN-19).

NG

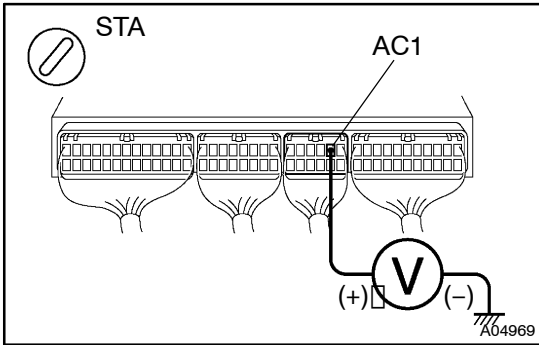
## 3 Check for open and short in harness and connector between engine ECU and A/C amplifier (See page IN-19).

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 and body ground.****PREPARATION:**

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

**CHECK:**

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

**OK:**

A/C switch condition	Voltage
ON	Below 0.5 V
OFF	9 – 14 V

**OK**

Proceed to next circuit inspection shown on problem symptoms table (See page DI-19).

**NG****2 Check for open and short in harness and connector between engine ECU and A/C amplifier (See page IN-19).****NG**

Repair or replace harness or connector.

**OK**

Check and replace A/C amplifier.