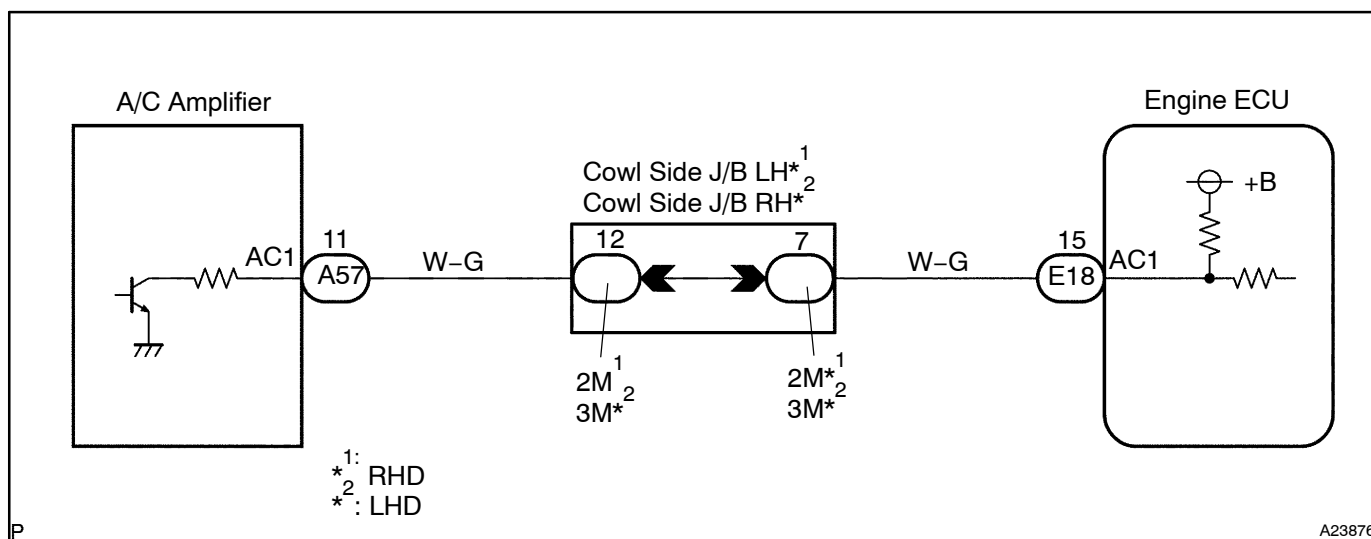


## A/C Signal Circuit

### 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 intelligent tester II:

- 1 Connect intelligent tester II and check A/C signal.

#### PREPARATION:

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

#### CHECK:

Read the A/C signal on the intelligent tester II while the A/C compressor is ON.

#### OK:

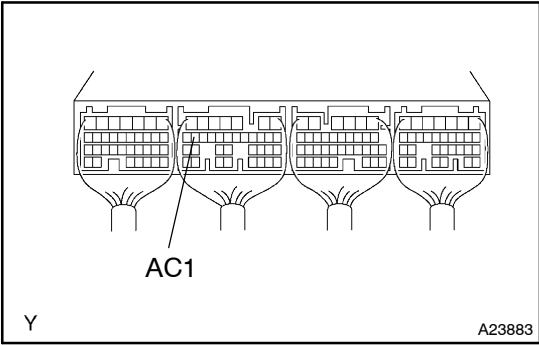
A/C switch condition	OFF	ON
A/C signal	OFF	ON

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-16).

NG

**2 Check voltage between terminal AC 1 of engine ECU and body ground.**



**PREPARATION:**

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

**CHECK:**

Measure the voltage between terminal AC1 of the engine ECU 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 to 14 V

**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**

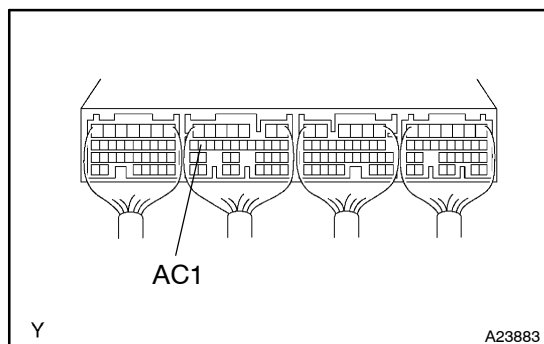
**Repair or replace harness or connector.**

**OK**

**Check and replace A/C amplifier.**

**When not using intelligent tester II:**

- 1** Check voltage between terminal AC 1 of engine ECU and body ground.

**PREPARATION:**

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

**CHECK:**

Measure the voltage between terminal AC1 of the engine ECU 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 to 14 V

**OK**

Proceed to next circuit inspection shown on problem symptoms table ([See page DI-16](#)).

**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.