

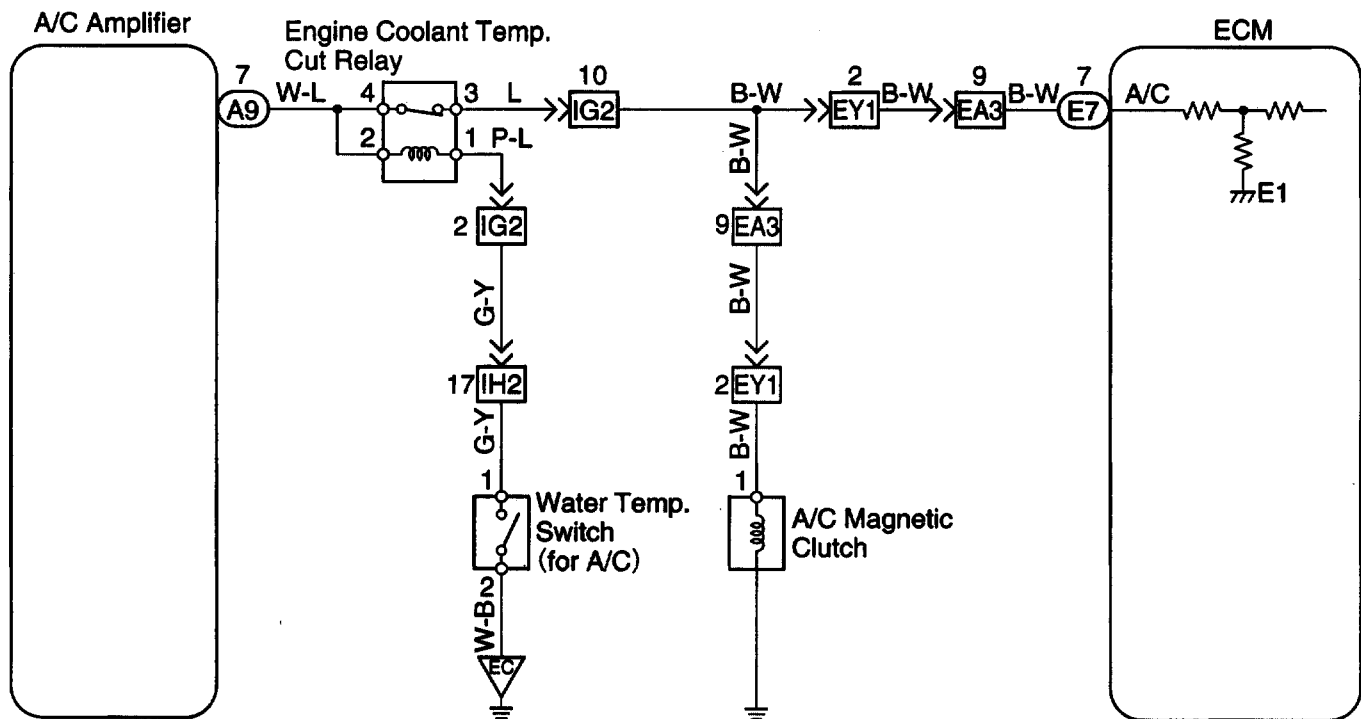
A/C Signal Circuit

CIRCUIT DESCRIPTION

When the air conditioning operates (increased engine load), battery positive voltage is applied to terminal A/C of the ECM (A/C signal).

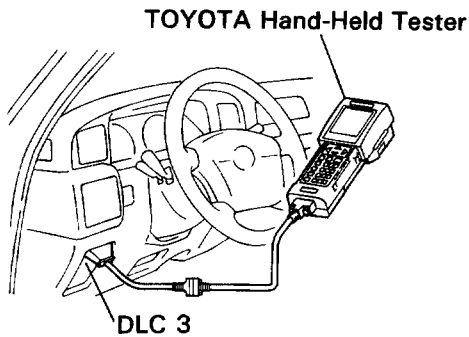
The ECM then controls the IAC valve to increase the idle speed while the A/C signal is input to the ECM, thus maintaining driveability.

WIRING DIAGRAM



INSPECTION PROCEDURE

TOYOTA hand-held tester

1 Connect the TOYOTA hand-held tester and check A/C signal.BE6653
P22892**NG**

- P** (1) Remove the fuse cover on the instrument panel.
 (2) Connect the TOYOTA hand-held tester to the DLC 3.
 (3) Turn ignition switch ON and TOYOTA hand-held tester main switch ON.

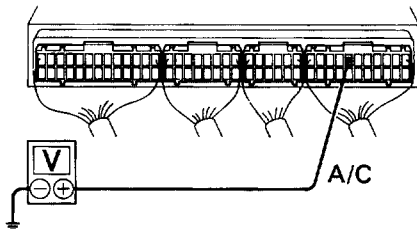
C Read A/C signal on the TOYOTA hand-held tester while air conditioning operates.

OK

A/C switch position	A/C signal
ON	ON
OFF	OFF

OK

Proceed to next circuit inspection shown on matrix chart (See page [EG-243](#)).

2 Check voltage between terminal A/C of ECM and body ground.

- P** (1) Remove instrument panel speaker No. 1 panel (See page [EG-173](#)).
 (2) Start the engine.

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

OK

A/C switch position	Voltage
ON	9 ~ 14 V
OFF	0 ~ 3 V

P22525

NG**OK**

Check and replace ECM (See page [IN-31](#)).

Check and repair harness or connector (See page [IN-26](#)).

- 1** Check voltage between terminal A/C of ECM and body ground
(See page [EG-333](#), Step [2]).

NG

OK

Proceed to next circuit inspection shown
on matrix chart (See page [EG-243](#)).

- 2** Check for open and short in harness and connector between ECM and
A/C amplifire (See page [IN-26](#)).

OK

NG

Repair or replace harness or connector.

Check and replace ECM (See page [IN-31](#)).