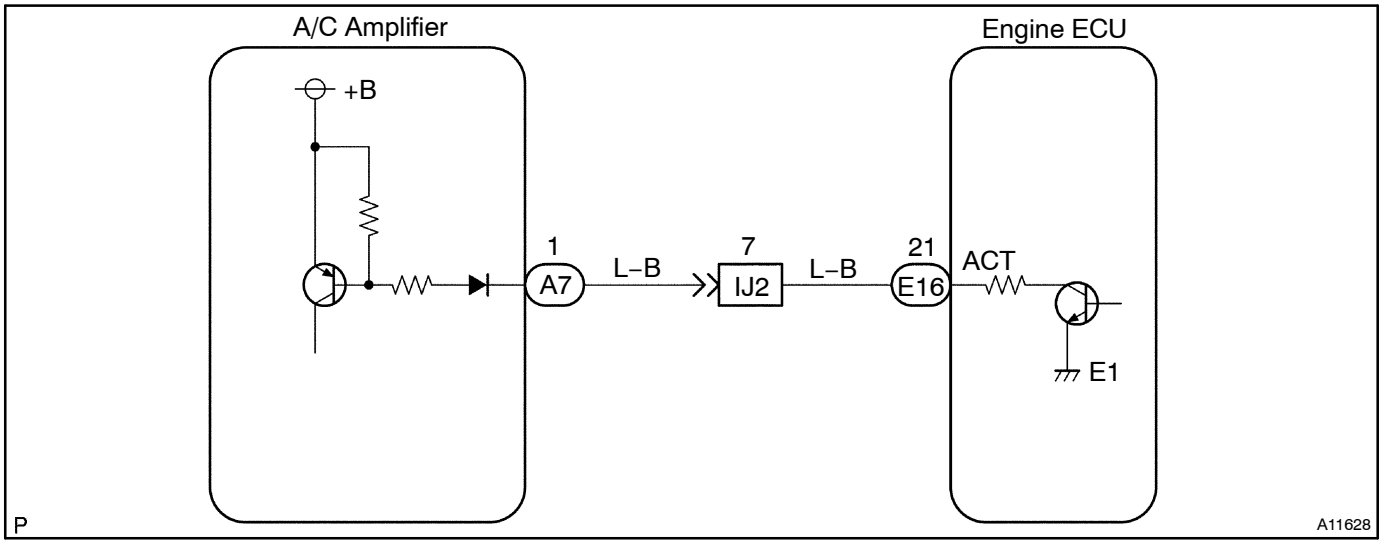
DI75P–01

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 25 km/h (16 mph) or less, engine speed at 1,600 rpm or less and throttle valve opening angle at 60° or more, the A/C magnet switch is turned OFF for several seconds.

WIRING DIAGRAM



INSPECTION PROCEDURE

When using hand–held tester:

1	**Connect hand–held tester, and check operation of A/C cut control.**

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.
(c) Start the engine and turn the A/C switch ON.

HINT:
The A/C magnet clutch is turned ON.

(d) Select the ACTIVE TEST mode on the hand–held tester.

CHECK:

Check the operation of the A/C magnet clutch cut when the A/C cut control is operated by the hand–held tester.

OK:

A/C magnet clutch is turned OFF.

OK → **Proceed to next circuit inspection shown on problem symptoms table (See page DI–19).**

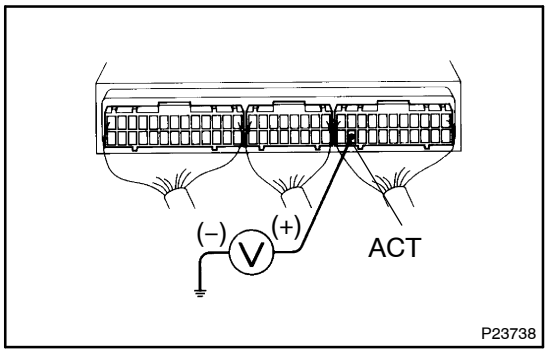
NG

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

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



PREPARATION:
(a) Remove the glove compartment (See page FI–56).
(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 – 14 V
OFF	Below 2.0 V

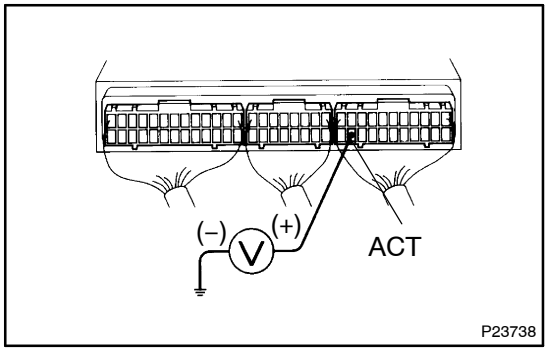
NG → **Check and replace A/C amplifier.**

OK

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

When not using hand–held tester:

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



PREPARATION:
(a) Remove the glove compartment (See page FI–56).
(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 – 14 V
OFF	Below 2.0 V

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