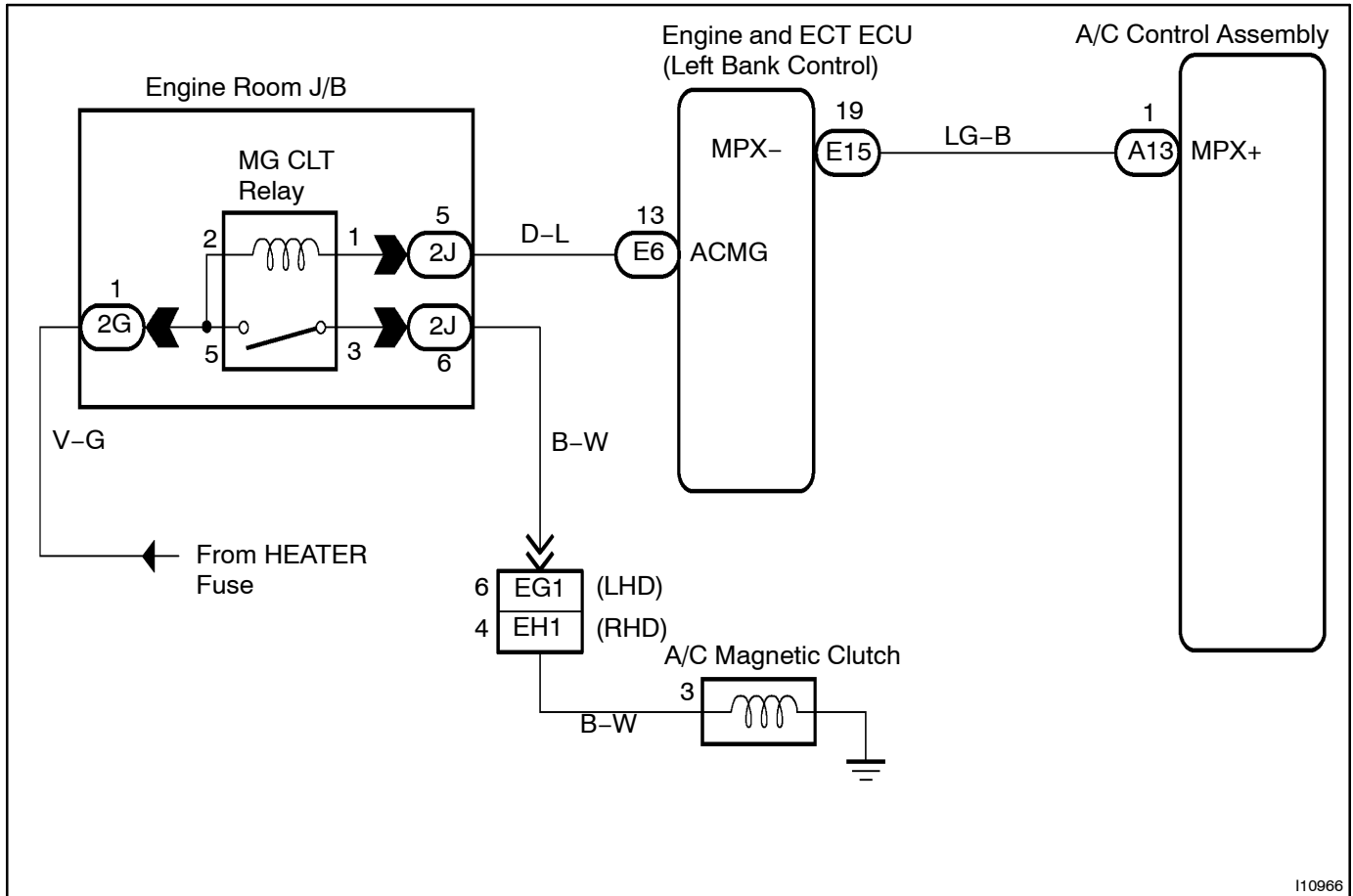


Compressor Circuit

CIRCUIT DESCRIPTION

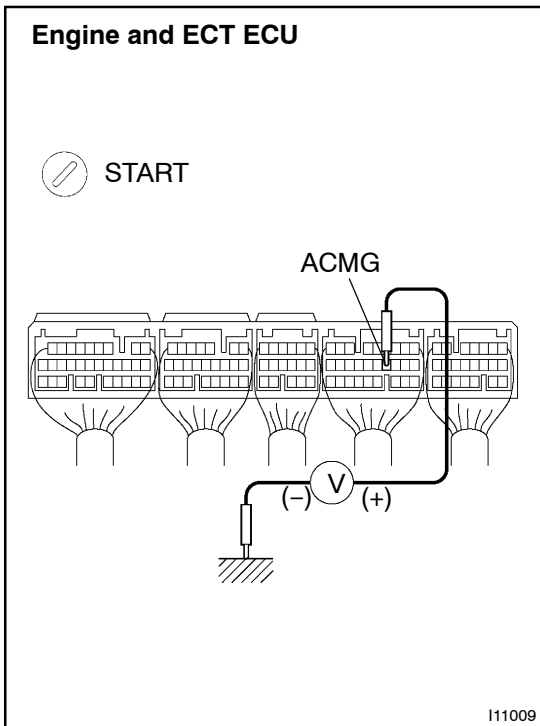
The A/C control assembly outputs the magnetic clutch ON signal from terminal MPX+ to the engine and ECT ECU (left bank control). When the engine and ECT ECU (left bank control) receives this signal, it sends a signal from terminal ACMG and switches the A/C magnetic clutch relay ON, thus turning the A/C compressor magnetic clutch ON.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 Check voltage between terminal ACMG of ECM and body ground.

**PREPARATION:**

Remove the engine and ECT ECU (left bank control) with connector still connected.

CHECK:

- Start engine.
- Push AUTO SW.
- Measure voltage between terminal ACMG of ECM connector and body ground when A/C switch is ON and OFF.

OK:

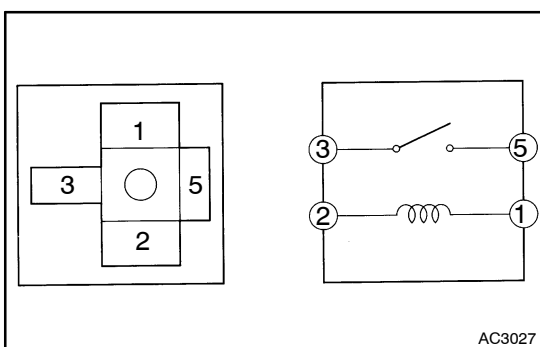
A/C switch	Voltage
ON	10 - 4 V
OFF	0 V

OK

Check and replace engine and ECT ECU (left bank control or A/C control assembly).

NG

2 Check magnetic clutch relay.

**PREPARATION:**

Remove magnetic clutch relay from engine room J/B.

CHECK:

Check continuity between each pair of terminals shown below of magnetic clutch relay.

OK:

Tester connection	Specified condition
1 - 2	62.5 - 90.9 Ω
3 - 5	No continuity

PREPARATION:

Apply battery positive (+) voltage between terminals 1 and 2.

CHECK:

Check continuity between terminals 3 and 5.

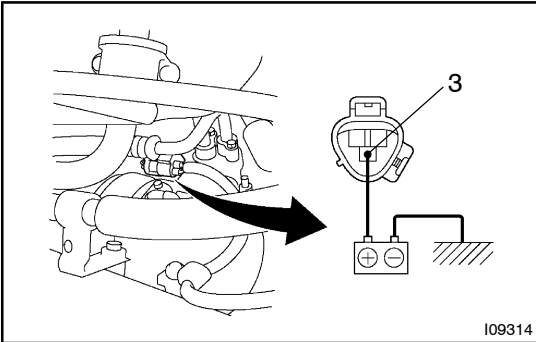
OK:

Continuity exists

NG

Replace magnetic clutch relay.

OK

3 Check A/C compressor magnetic clutch.**PREPARATION:**

Disconnect magnetic clutch connector.

CHECK:

Connect positive (+) lead connected to battery to magnetic clutch connector terminal 3.

OK:**Magnetic clutch is energized.**

NG

Repair or replace A/C compressor magnetic clutch.

OK

4 Check harness and connector between magnetic clutch relay and engine and ECT ECU (left bank control) (See page IN-30).

NG

Repair or replace harness or connector.

OK

5 Check harness and connector between Engine and ECT ECU (left bank control) and A/C compressor assembly (See page IN-30).

NG

Repair or replace harness or connector.

OK

Check and replace Engine and ECT ECU (left bank control) and/or A/C control assembly.