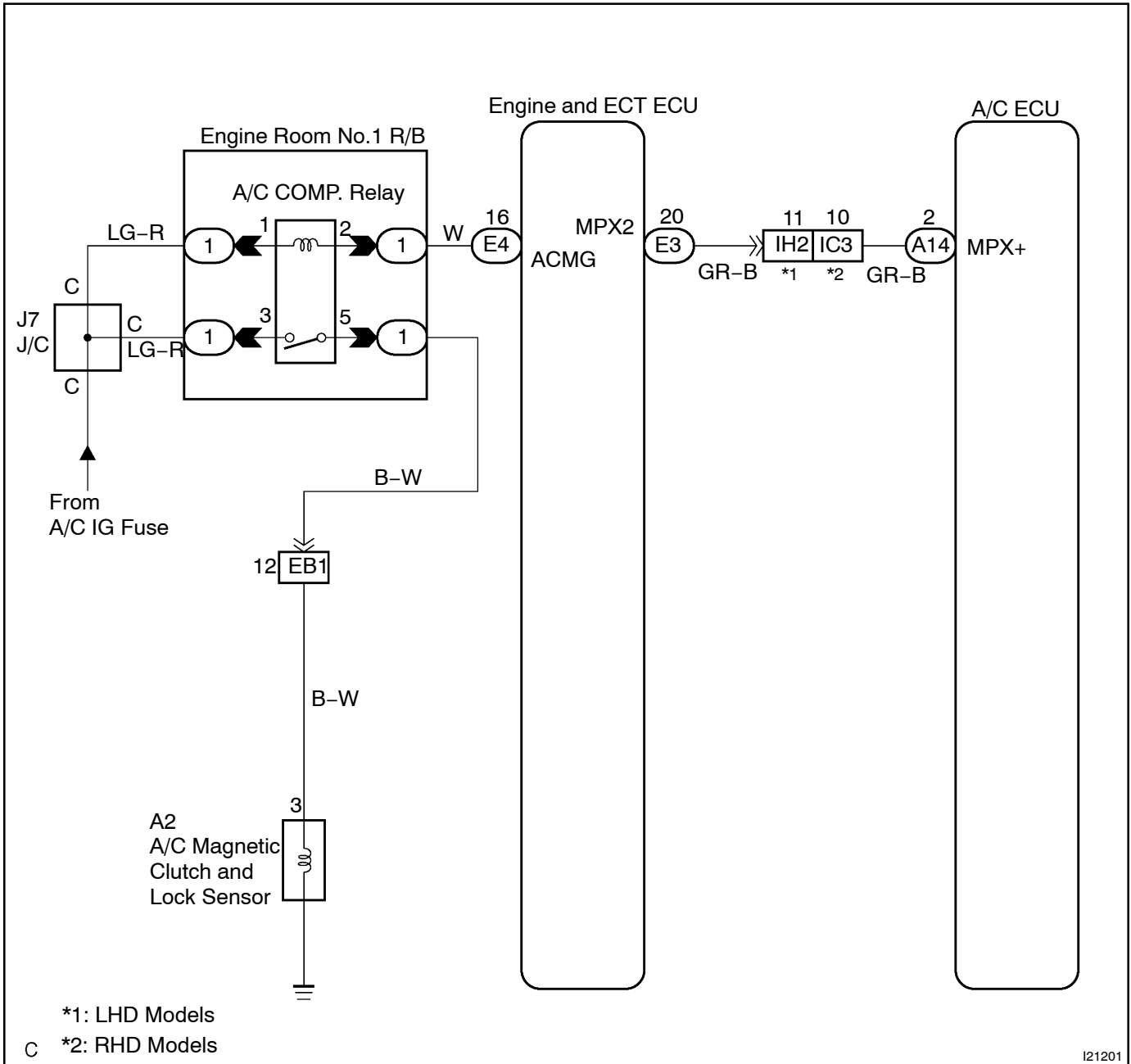


# Compressor Circuit

## CIRCUIT DESCRIPTION

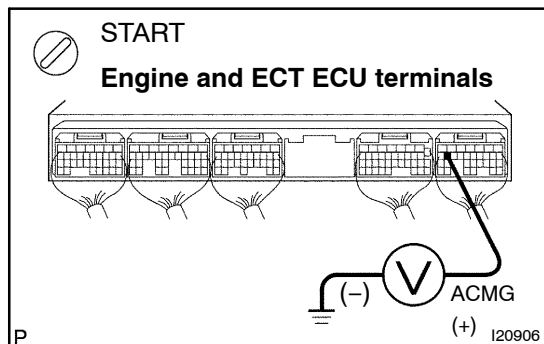
The A/C ECU outputs the magnetic clutch ON signal from terminal MPX2 to the engine and ECT ECU. When the engine and ECT ECU receives this signal, it sends a signal from terminal ACMG and switches the A/C magnetic clutch relay ON, thus turning the A/C compressor magnetic clutch ON.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

- 1 Check voltage between terminal ACMG of engine and ECT ECU connector and body ground.**

**PREPARATION:**

Remove the engine and ECT ECU with connector still connected.

**CHECK:**

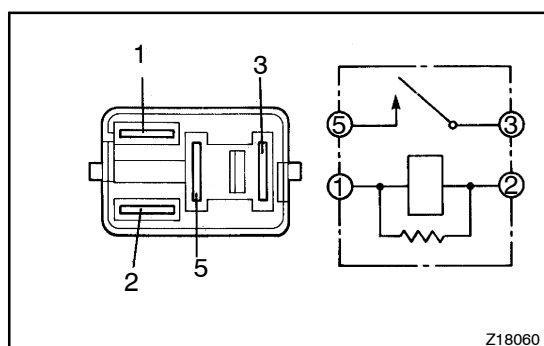
- Start engine.
- Push AUTO SW.
- Measure voltage between terminal ACMG of engine and ECT ECU connector and body ground when A/C switch is ON and OFF.

**OK:**

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

**OK****Go to step 3.****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 $\Omega$
3 - 5	No continuity

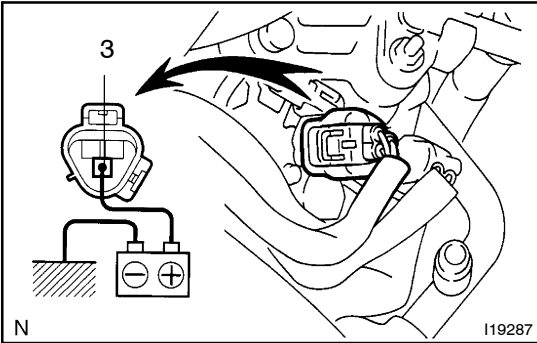
**PREPARATION:**

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 (See page IN-35).**

NG

Repair or replace harness or connector.

OK

**5 Check harness and connector between engine and ECT ECU and A/C compressor (See page IN-35).**

NG

Repair or replace harness or connector.

OK

Check and replace engine and ECT ECU and A/C ECU.