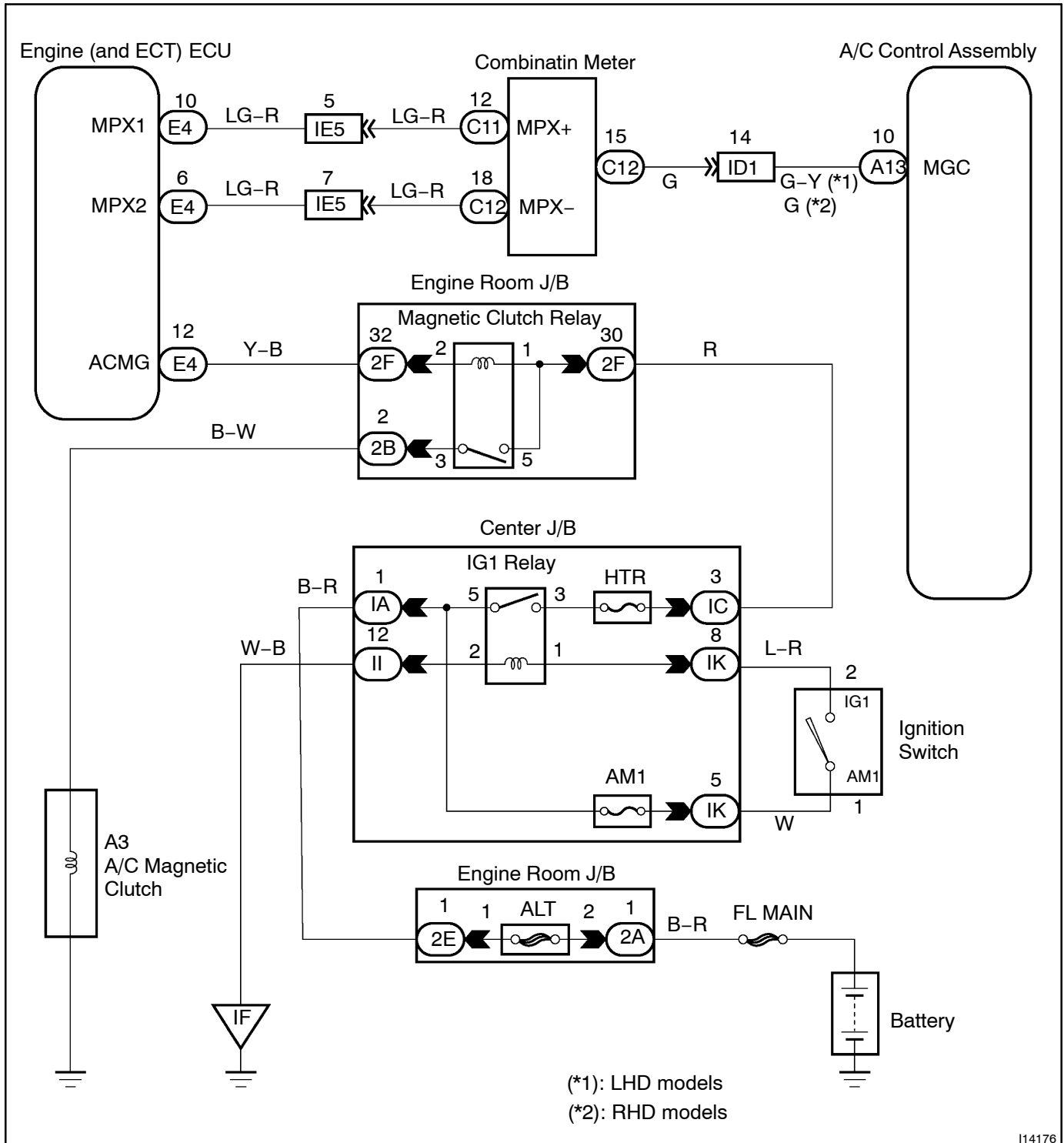


Compressor Circuit

CIRCUIT DESCRIPTION

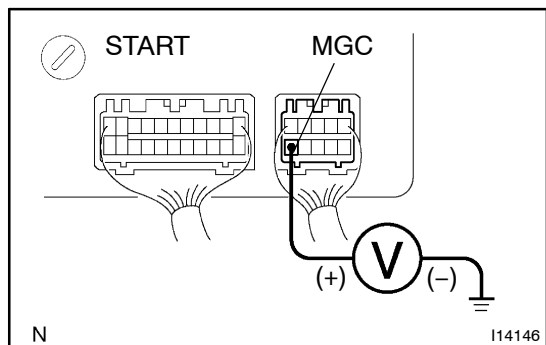
The A/C control assembly outputs the magnetic clutch ON signal from terminal MGC to the engine (and ECT) ECU. When the engine (and ECT) ECU receives this signal, it sends a signal from terminal ACMG and switches the A/C magnetic clutch relay ON, thus turning the A/C compressor magnetic clutch ON.

WIRING DIAGRAM



INSPECTION PROCEDURE

- 1 Check voltage between terminal MGC of A/C control assembly connector and body ground.**

**PREPARATION:**

- (a) Remove A/C control assembly with connectors still connected.
 (b) Start the engine and push AUTO switch.

CHECK:

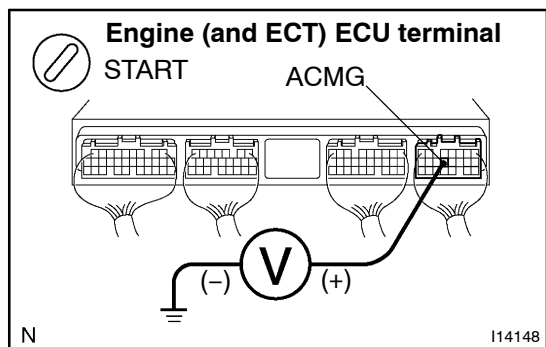
Check voltage between terminal MGC of A/C control assembly connector and body ground when magnetic clutch is ON and OFF by A/C switch.

OK:

A/C switch	Voltage
ON	Below 1 V
OFF	10 – 14 V

NG**Go to step 7.****OK**

- 2 Check voltage between terminal ACMG of engine (and ECT) ECU and body ground.**

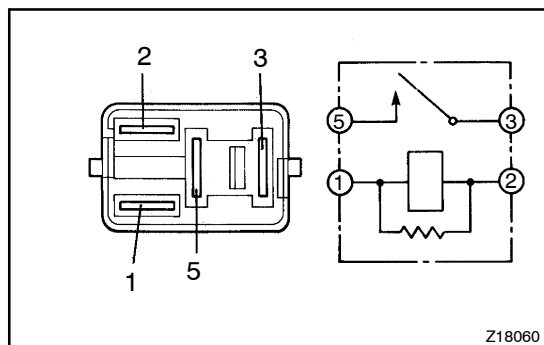
**CHECK:**

- (a) Start engine.
 (b) Push AUTO SW.
 (c) 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	Below 1 V
OFF	10 – 14 V

NG**Go to step 6.****NG**

3 Check magnetic clutch relay.**PREPARATION:**

Remove magnetic clutch relay 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.

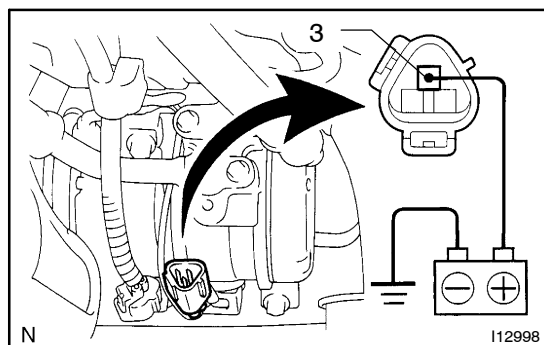
OK:

Continuity exists.

NG

Replace magnetic clutch relay.

OK

4 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 A/C compressor magnetic clutch.

OK

- | | |
|---|--|
| 5 | Check harness and connector between A/C compressor and magnetic clutch relay (See page IN-30). |
|---|--|

NG

Repair or replace harness or connector.

OK

- | | |
|---|--|
| 6 | Check harness and connector between magnetic clutch relay and engine (and ECT) ECU (See page IN-30). |
|---|--|

NG

Repair or replace harness or connector.

OK

- | | |
|---|--|
| 7 | Check harness and connector between engine (and ECT) ECU and combination meter, combination meter and engine (and ECT) ECU (See page IN-30). |
|---|--|

NG

Repair or replace harness or connector.

OK

Check and replace engine (and ECT) ECU, combination meter and A/C control assembly ([See page IN-30](#)).