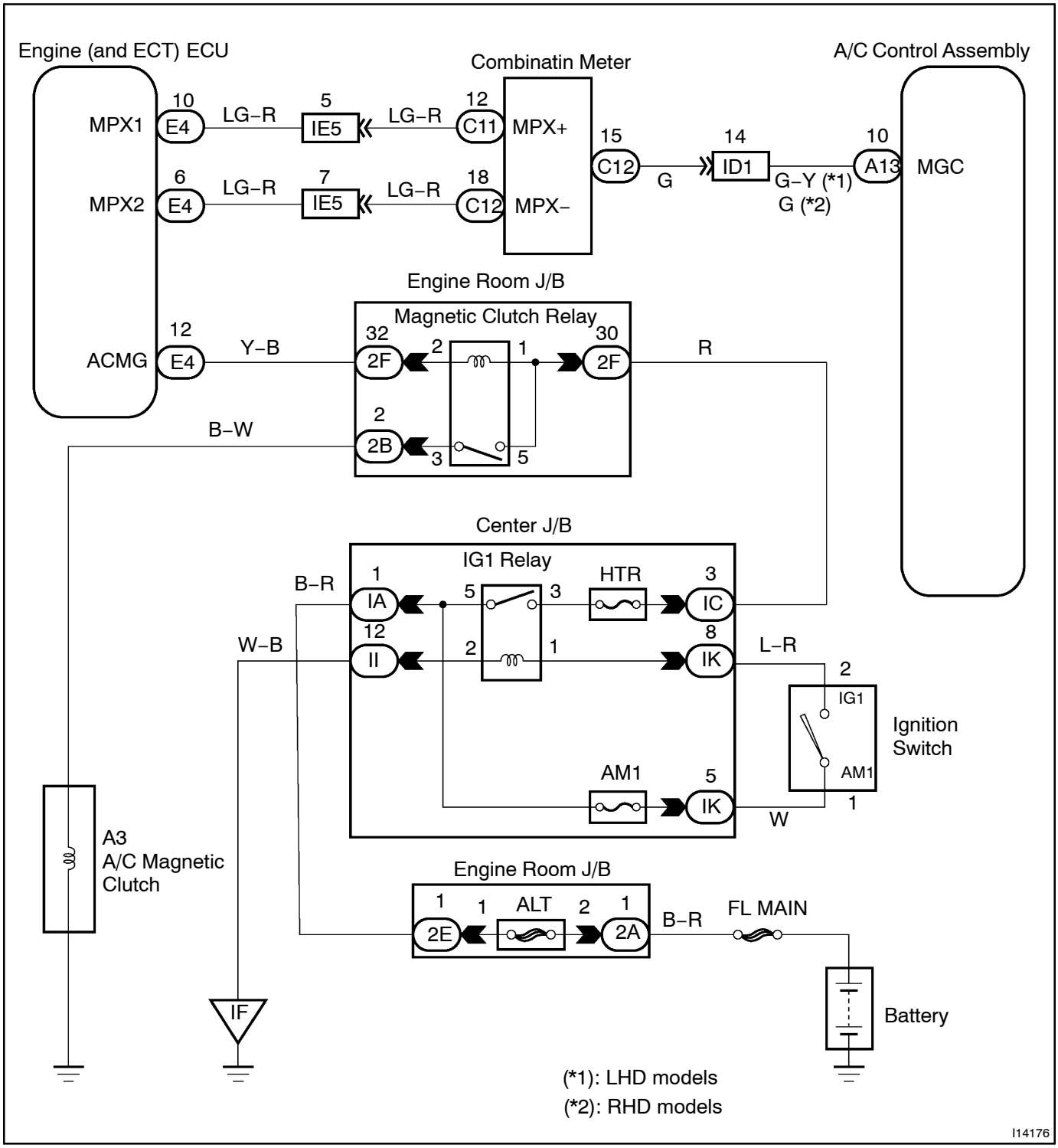
DI6SC–01

Compressor Circuit

CIRCUIT DESCRIPTION

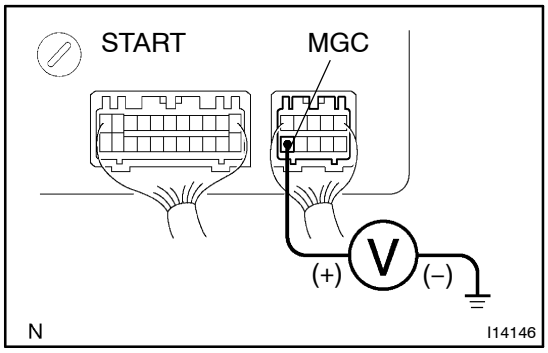
The A/C control assembly outputs the magnetic clutch ON signal from terminal MGC to the engine (and ECT) ECU. When the engine (and ECT) ECU receives this signal, it sends a signal from terminal ACMG and switches the A/C magnetic clutch relay ON, thus turning the A/C compressor magnetic clutch ON.

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.

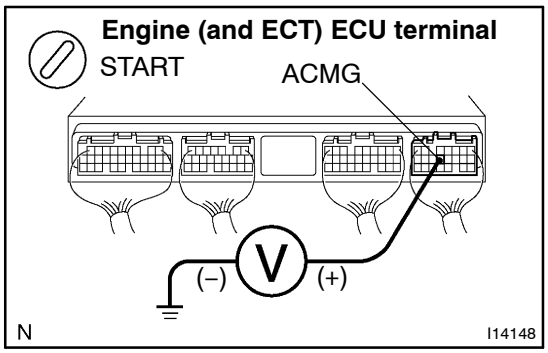
OK:

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.

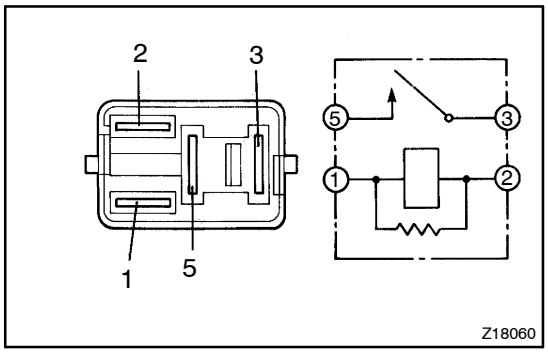
OK:

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.

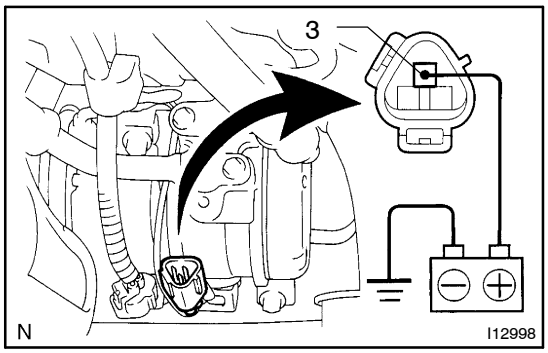
OK:

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 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).