

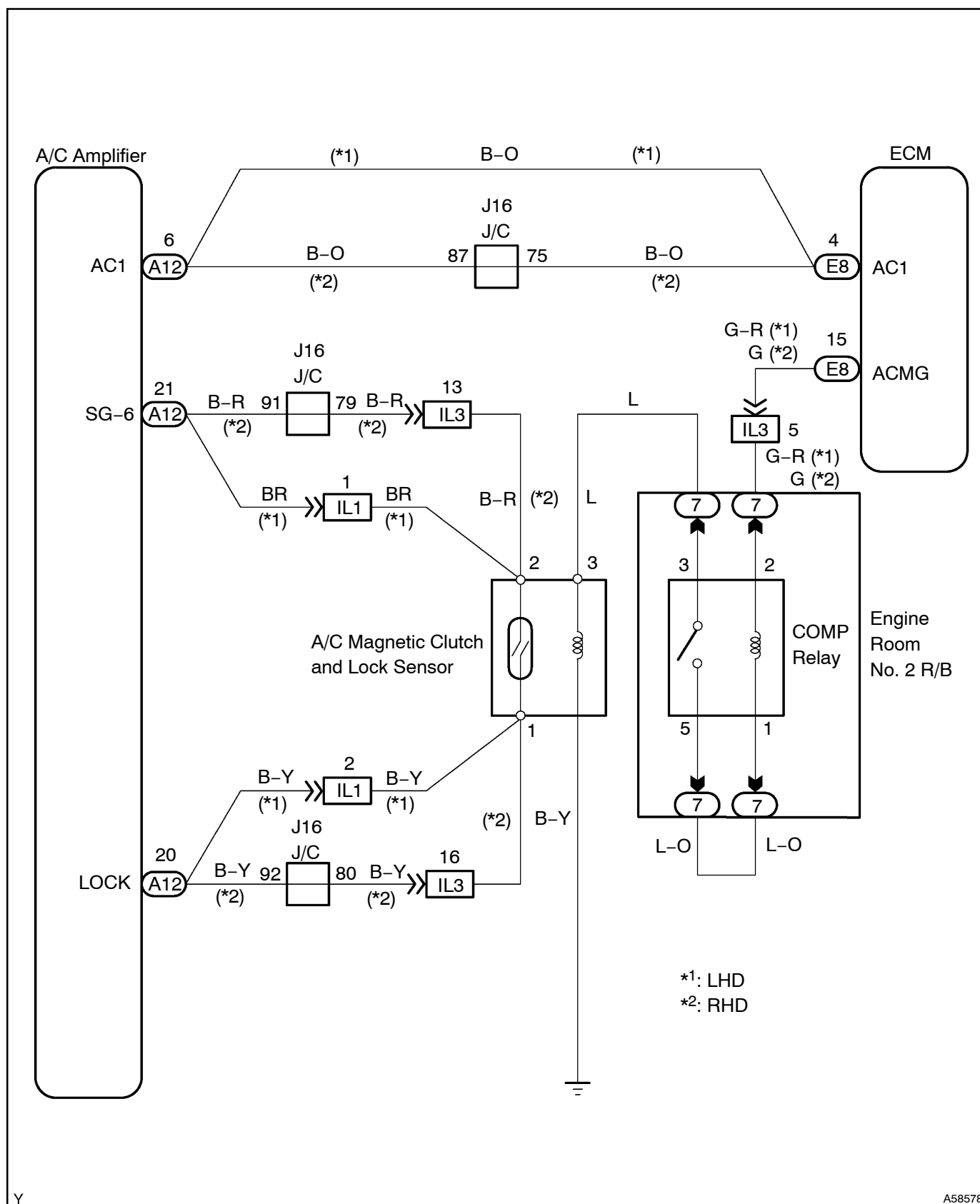
A/C COMPRESSOR CIRCUIT

CIRCUIT DESCRIPTION

The A/C control assembly outputs the magnetic clutch ON signal from terminal ACMG to the engine ECU. When the engine ECU receives this signal, it sends a signal from terminal ACMG, turning the A/C compressor magnetic clutch is ON.

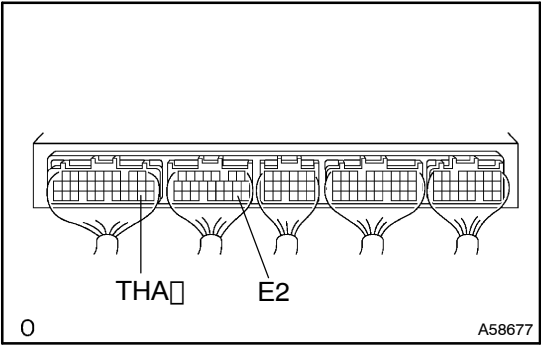
The A/C compressor lock sensor sends 1 pulse per engine revolution to the engine ECU. If the number ratio of the compressor speed divided by the engine speed is smaller than a predetermined value, the engine ECU turns the compressor off. And, the indicator flashes at about 1 second interval.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT ECM(CHECK VOLTAGE)



- (a) Turn the ignition switch ON.
- (b) Push on the A/C switch ON.
- (c) Switch on the blower switch ON.
- (d) Measure voltage between terminals ACMG and E2 of the ECM connector when the A/C switch is turned to ON and OFF.

VOLTAGE:

A/C switch condition	Voltage
ON	Below 1.0 V
OFF	10.0 - 14.0 V

NG Go to step 3

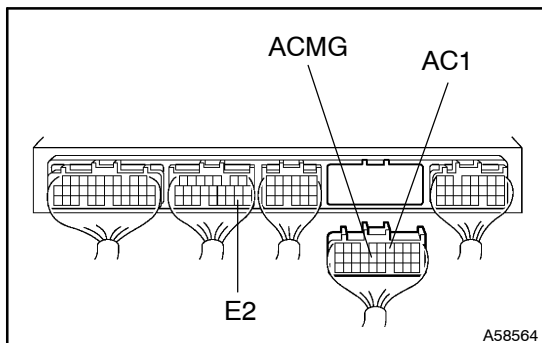
OK

2 CHECK COMPRESSOR LOCK SENSOR(See page 55-8)

NG REPAIR COMPRESSOR LOCK SENSOR

OK

3 CHECK WIRE HARNESS OR CONNECTOR(A/C COMPRESSOR-COMPRESSOR LOCK SENSOR-ECM)



- (a) Disconnect the compressor lock sensor connector.
- (b) Disconnect the A/C amplifier connector.
- (c) Disconnect the ECM E8 connector.
- (d) Check continuity between the terminals AC1 of the ECM connector and AC1 of the A/C amplifier connector.

Resistance: 1 Ω or less

- (e) Check for short between the terminals AC1 and E2 of the ECM connector.

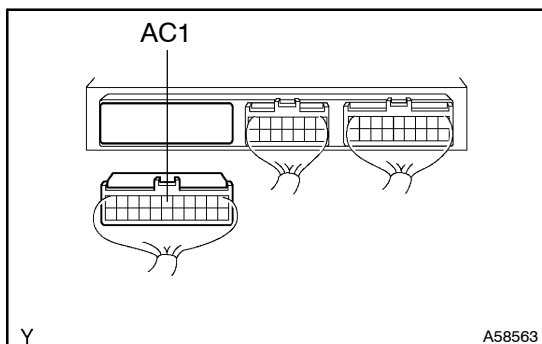
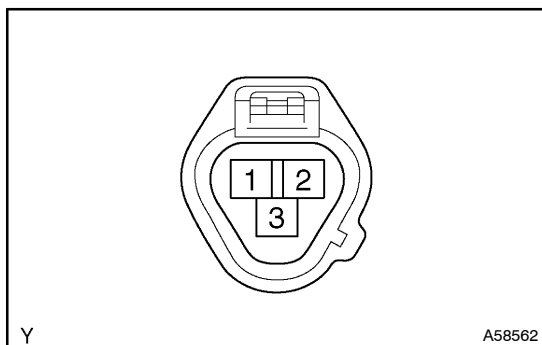
Resistance: 1 M Ω or more

- (f) Check continuity between the terminals ACMG of the ECM connector and 3 of the compressor lock sensor connector.

Resistance: 1 Ω or less

- (g) Check for short between the terminals ACMG of the ECM connector and E2 of the ECM connector.

Resistance: 1 Ω or less



NG

REPAIR OR REPLACE WIRE HARNESS OR CONNECTOR

OK

CHECK AND REPLACE ECM