

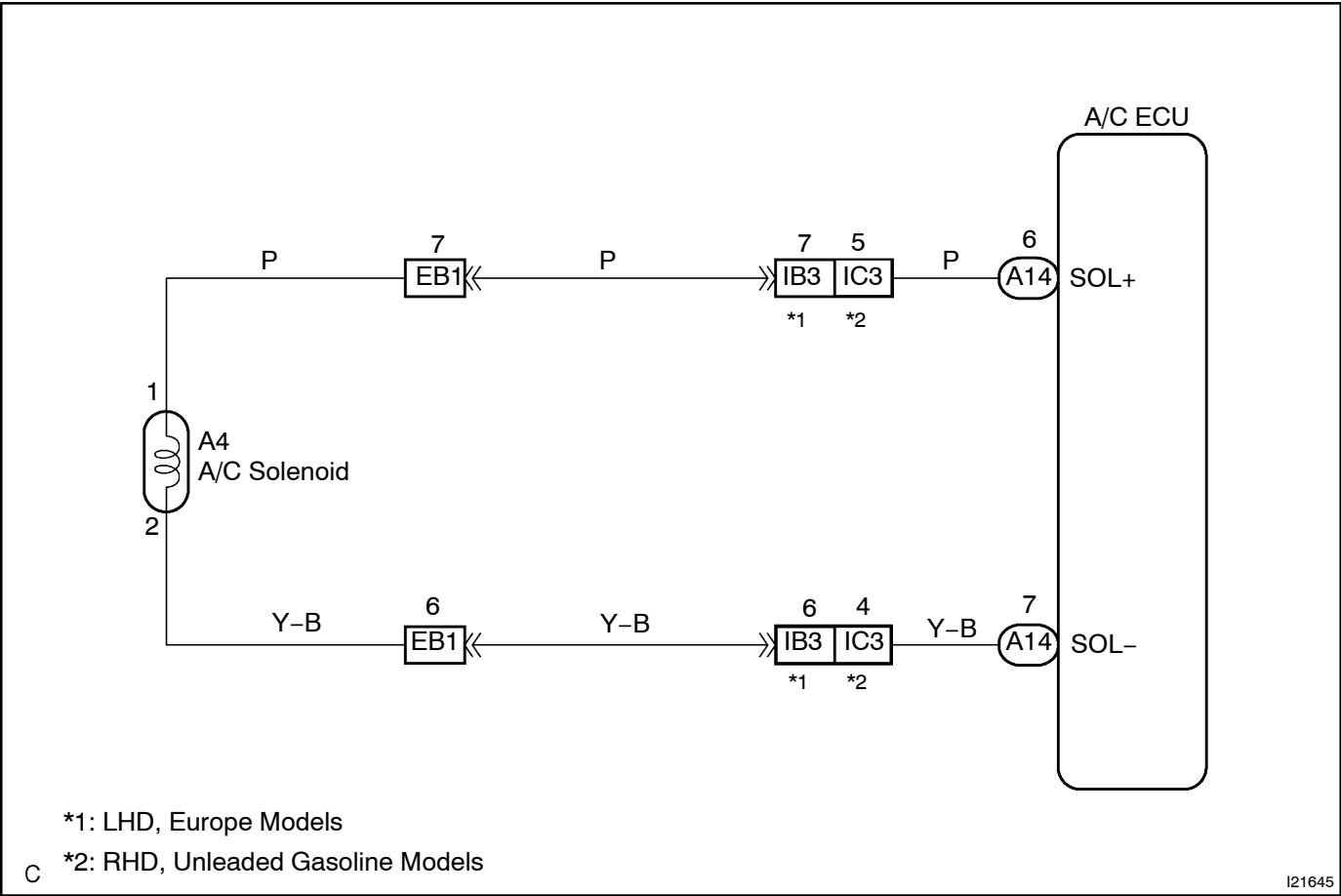
DTC	B1451/51	Solenoid of the Externally Changeable Compressor Circuit
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CIRCUIT DESCRIPTION

This solenoid sends appropriate signals to the A/C ECU.

DTC No.	Detection Item	Trouble Area
B1451/51	Short to ground or power source circuit in Solenoid of the externally changeable compressor circuit	• Compressor. • Harness and connector between A/C ECU and solenoid of the externally changeable compressor. • A/C ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

In case of using the hand-held tester, start the inspection step 1 and in case of not using the hand-held tester, start from step 2.

1 Check solenoid using hand-held tester.

PREPARATION:

Connect the hand-held tester to the DLC3.

CHECK:

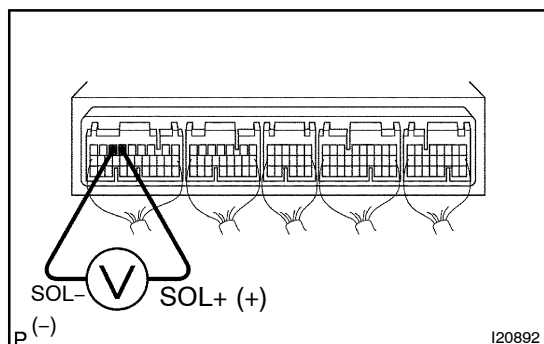
Check the solenoid using DATA LIST.

OK

Check and replace A/C ECU.

NG

2 Check voltage between terminals SOL+ and SOL- of A/C ECU connector.



PREPARATION:

Remove A/C ECU with connectors still connected.

CHECK:

- Start the engine.
- Push AUTO SW.
- Measure voltage between terminals SOL+ and SOL- of A/C ECU connector.

OK:

Voltage: Below 1.0 V

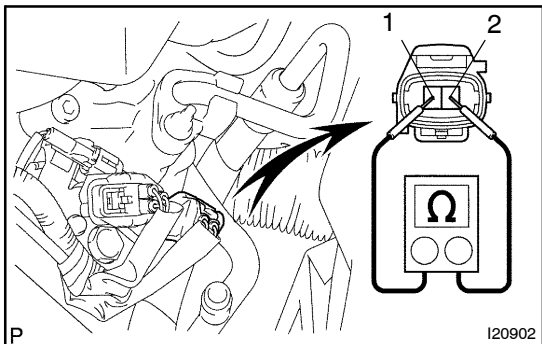
HINT:

As the temperature increases, the voltage decreases.

OK

Proceed to next circuit inspection shown on problem symptom table ([See page DI-1772](#)).

NG

3 Check solenoid of the externally changeable compressor.**PREPARATION:**

Disconnect solenoid of the externally changeable connector.

CHECK:

Measure resistance between terminals 1 and 2 of solenoid of the externally changeable.

OK:

Resistance: at 20 °C (68 °F) 10 – 11 Ω

NG**Replace compressor.****OK****4 Check harness and connectors between A/C ECU and solenoid of the externally changeable compressor ([See page IN-35](#)).****NG****Repair or replace harness or connector.****OK****Check and replace A/C ECU.**