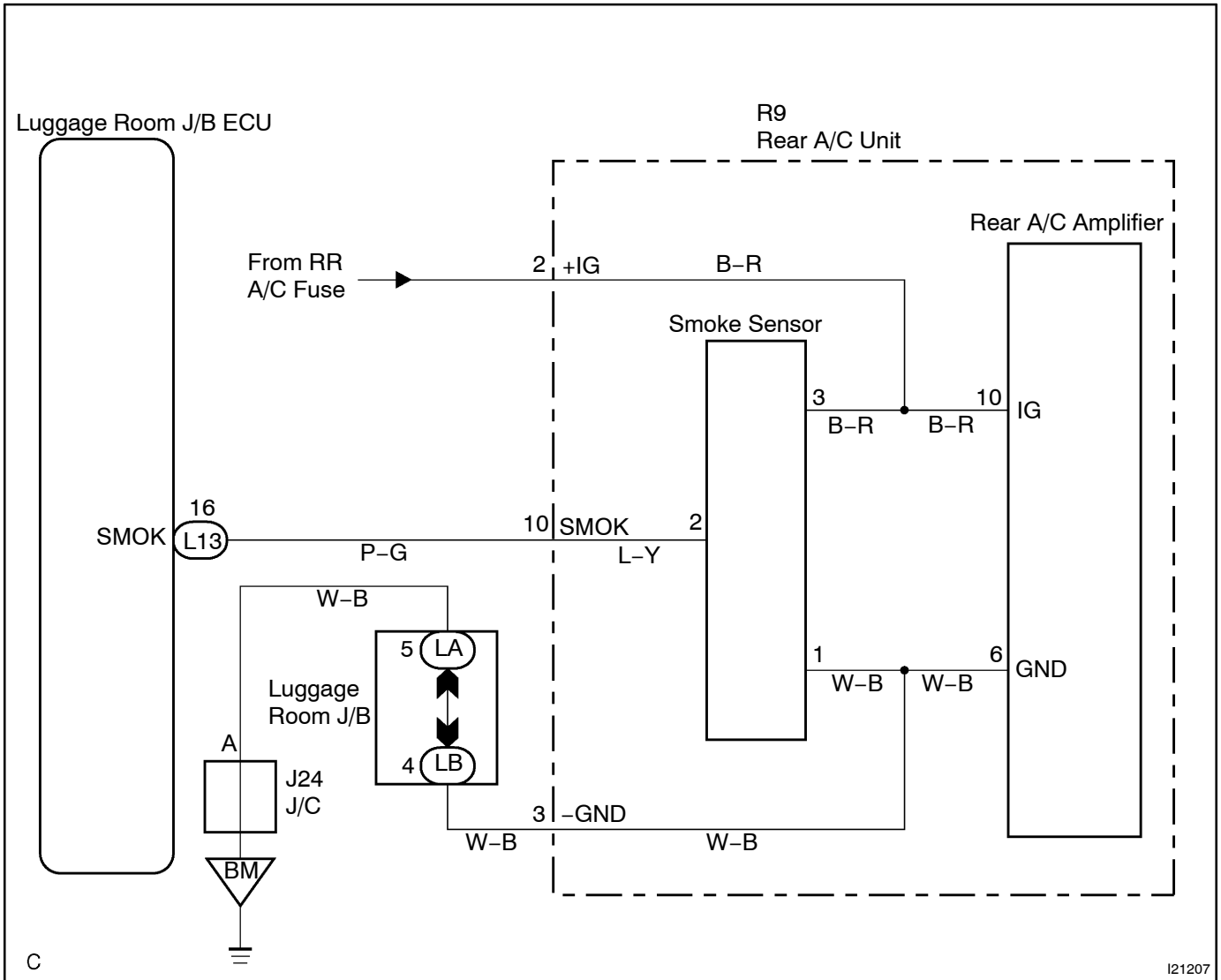DI8CG–01

Smoke Sensor Circuit

CIRCUIT DESCRIPTION

This sensor detects the smoke inside the cabin and sends the appropriate signals to the luggage room J/B ECU.
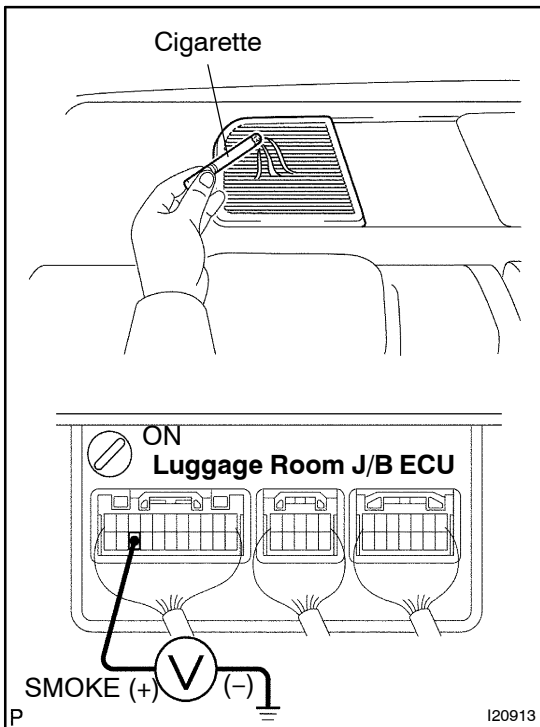
WIRING DIAGRAM

I21207

INSPECTION PROCEDURE

1	Check voltage between terminal SMOKE of luggage room J/B ECU connector and body ground.

PREPARATION:
Remove luggage room J/B ECU with connectors still connected.

CHECK:
(a) Turn ignition switch to ON.
(b) Operate rear A/C control panel AUTO mode.
(c) By using cigarette smoke, measure voltage between terminals SMOKE of luggage room J/B ECU and body ground.
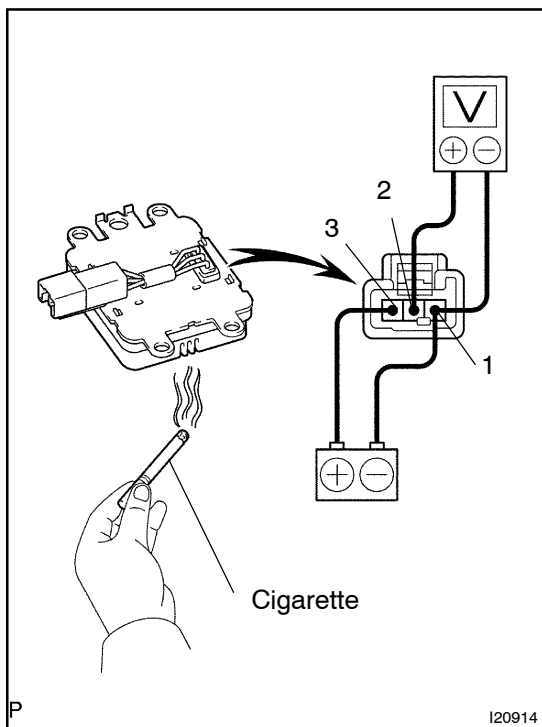
OK:

Voltage: Above 4.0 V

OK	Go to step 4.

NG

2	Check smoke sensor.

Cigarette

I20914

PREPARATION:
Remove the smoke sensor (See page AC−38).
CHECK:
(a) Connect the positive (+) lead from the battery to terminal 1 and negative (−) lead to terminal 3.
(b) By using cigarette smoke, measure the voltage as connector terminal 2 and 3.
OK:
 There is no smoke: Below 1.0 V
 There is smoke: Above 4.0 V
NOTICE:
Since the sensor detects smoke with light, check the sensor in dark state.

> NG — **Replace smoke sensor.**

> OK

3	Check harness and connector between smoke sensor and Rr−J/B ECU (See page IN−35).

> NG — **Repair or replace harness or connector.**

> OK

4	Check harness and connector between smoke sensor and A/C amplifier, smoke sensor and body ground (**See page IN−35**).

NG ⟩ Repair or replace harness or connector.

OK

Check and replace Rr−J/B ECU.