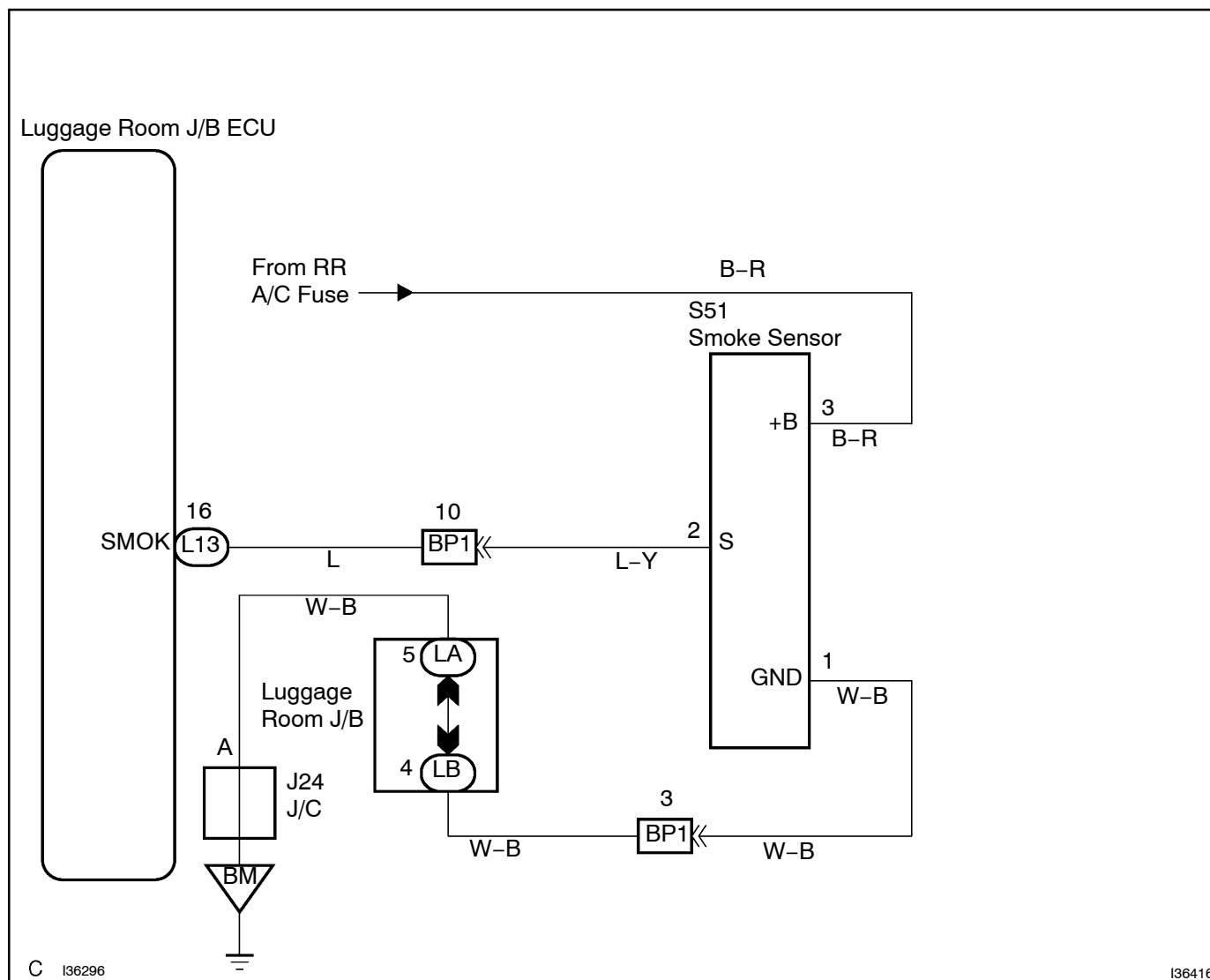


SMOKE SENSOR CIRCUIT

CIRCUIT DESCRIPTION

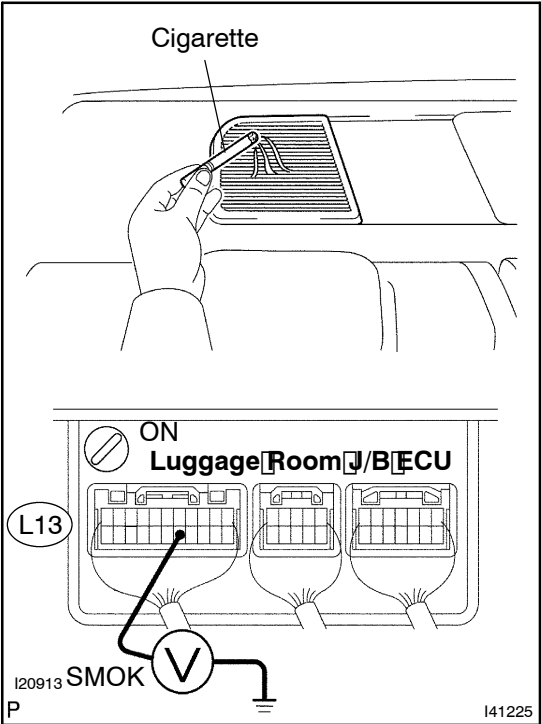
This sensor detects the smoke inside the cabin and sends the appropriate signals to the luggage room J/B ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT LUGGAGE ROOM J/B ECU (RMGV - BODY GROUND)



- (a) Remove the Luggage Room J/B ECU with connectors still connected.
- (b) Measure the voltage according to the value(s) in the table below when applying or not applying cigarette smoke.

Standard:

Tester Connection	Condition	Specified Condition
L13-16 (SMOK) - Body Ground	Turn the Ignition switch to ON position Turn the Rear A/C mode to AUTO Apply cigarette smoke	Above 4.0 V
L13-16 (SMOK) - Body Ground	Turn the Ignition switch to ON position Turn the Rear A/C mode to AUTO Not apply cigarette smoke	Below 1 V

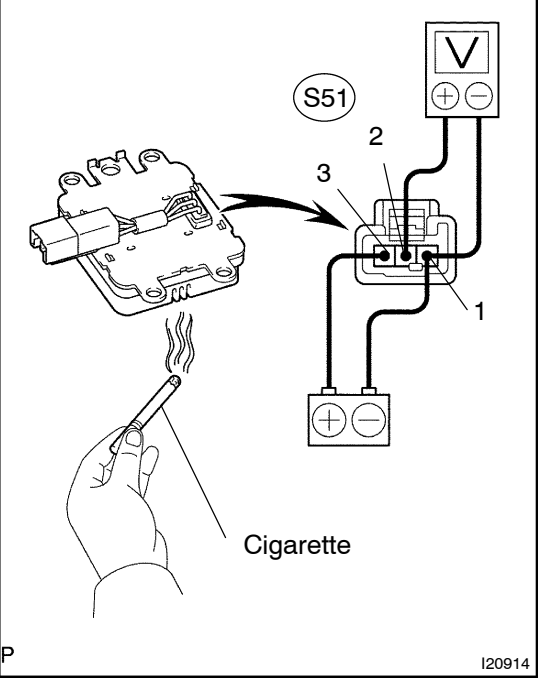
NG Go to step 2

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-778)

2 INSPECT SMOKE SENSOR

Smoke Sensor Connector Front View:



- (a) Remove the smoke sensor.
- (b) Connect the positive (+) lead from the battery to terminal S51-1 and negative (-) lead to terminal S51-3.
- (c) Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
S51-2 - S51-3	There is no smoke	Below 1.0 V
S51-2 - S51-3	There is smoke	Above 4.0 V

NOTICE:

Since the sensor detects smoke with light, check the sensor in dark state.

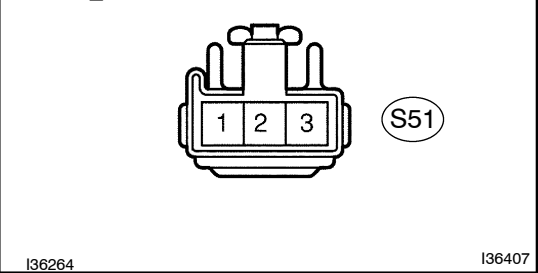
NG

REPLACE SMOKE SENSOR

OK

3 CHECK HARNESS AND CONNECTOR (BATTERY - SMOKE SENSOR)
(SEE PAGE 01-44)

Smoke Sensor Connector Front View:



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
S51-1 (GND) - Body ground	Always	Below 1 Ω

- (b) Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
S51-3 (+B) - Body ground	IG ON	10 to 14 V

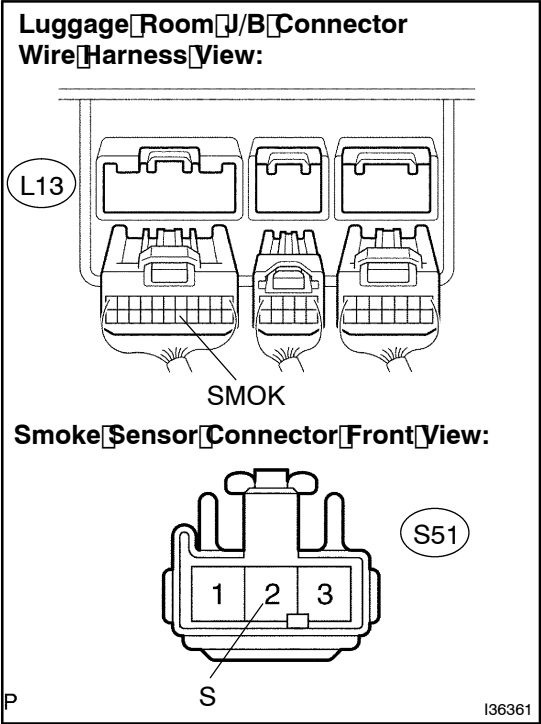
NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

4

CHECK HARNESS AND CONNECTOR (LUGGAGE ROOM J/B - SMOKE SENSOR)
(SEE PAGE 01-44)



(a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
L13-16 (SMOK) - S51-2	Always	Below 1 Ω
L13-16 (SMOK) - Body ground	Always	10 k Ω or higher

NG

REPAIR OR
CONNECTOR

REPLACE HARNESS OR

OK

REPLACE LUGGAGE ROOM J/B ECU