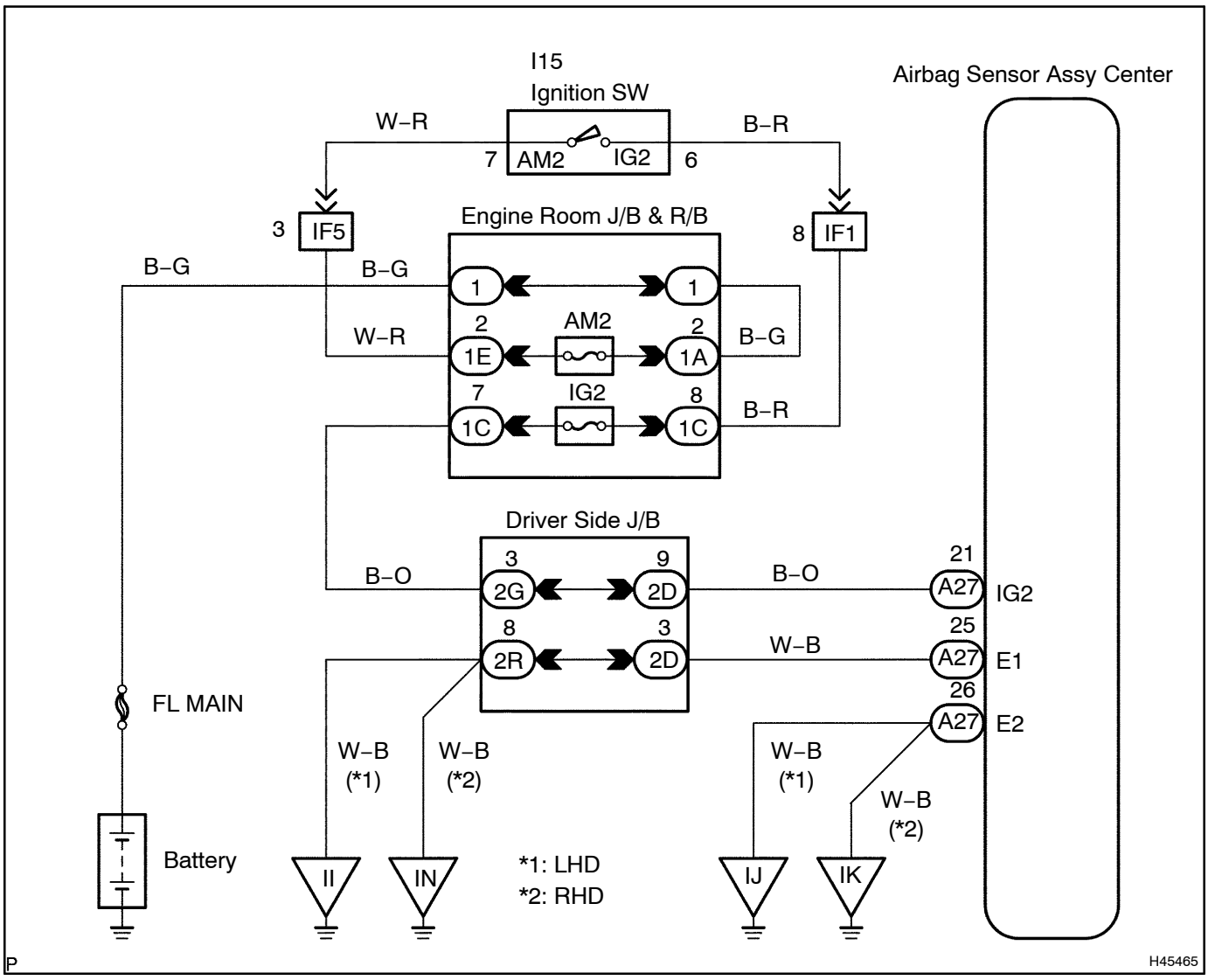
SOURCE VOLTAGE DROP

CIRCUIT DESCRIPTION

The SRS is equipped with a voltage–increase circuit (DC–DC converter) in the airbag sensor assy center in case the source voltage drops.
When the battery voltage drops, the voltage–increase circuit (DC–DC converter) functions to increase the voltage of the SRS to normal voltage.
A malfunction in this circuit is displayed differently from other codes. The source voltage drop is indicated when the SRS warning light comes on without showing any DTCs.
A malfunction in this circuit is not recorded in the airbag sensor assy center. The SRS warning light automatically goes off when the source voltage returns to normal.

DTC No.	Diagnosis
(Normal)	Source voltage drop

WIRING DIAGRAM



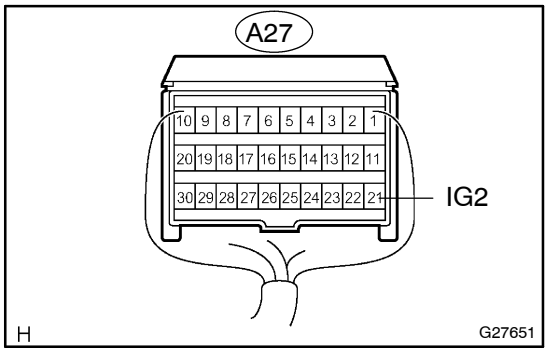
INSPECTION PROCEDURE

CAUTION:

Be sure to perform the following procedures before troubleshooting to avoid unexpected airbag deployment.

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center.
(d) Disconnect the connectors from the horn button assy.
(e) Disconnect the connectors from the front passenger airbag assy.
(f) Disconnect the connector from the front seat airbag assy LH.
(g) Disconnect the connector from the front seat airbag assy RH.
(h) w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy LH.
(i) w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy RH.
(j) Disconnect the connector from the front seat outer belt assy LH.
(k) Disconnect the connector from the front seat outer belt assy RH.

1	CHECK WIRE HARNESS (POWER SOURCE)



(a) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(b) Turn the ignition switch to the ON position.
(c) Measure the voltage according to the value(s) in the table below.

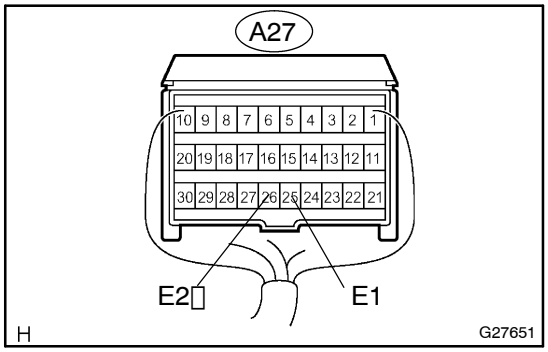
Standard:

Tester connection	Condition	Specified condition
A27–21 (IG2) – Body ground	Ignition switch ON	10 to 14 V

NG → **REPAIR OR REPLACE WIRE HARNESS (BATTERY – AIRBAG SENSOR ASSY CENTER), CHARGING SYSTEM AND BATTERY**

OK

2 CHECK WIRE HARNESS (AIRBAG SENSOR ASSY CENTER – BODY GROUND)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A27–25 (E1) – Body ground	Always	Below 1 Ω
A27–26 (E2) – Body ground	Always	Below 1 Ω

NG → **REPAIR OR REPLACE WIRE HARNESS**

OK

3 CHECK SRS WARNING LIGHT

(a) Connect the connectors to the airbag sensor assy center.
(b) Connect the connectors to the horn button assy.
(c) Connect the connectors to the front passenger airbag assy.
(d) Connect the connector to the front seat airbag assy LH.
(e) Connect the connector to the front seat airbag assy RH.
(f) w/ Curtain shield airbag:
Connect the connector to the curtain shield airbag assy LH.
(g) w/ Curtain shield airbag:
Connect the connector to the curtain shield airbag assy RH.
(h) Connect the connector to the front seat outer belt assy LH.
(i) Connect the connector to the front seat outer belt assy RH.
(j) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(k) Turn the ignition switch to the ON position, and wait for at least 6 seconds.
(l) Operate all components of the electrical system (defogger, wiper, headlamp, heater blower, etc.) and check the SRS warning light operation.

OK:

The SRS warning light does not come on.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60–40)**

OK

USE SIMULATION METHOD TO CHECK (SEE PAGE 05–10)