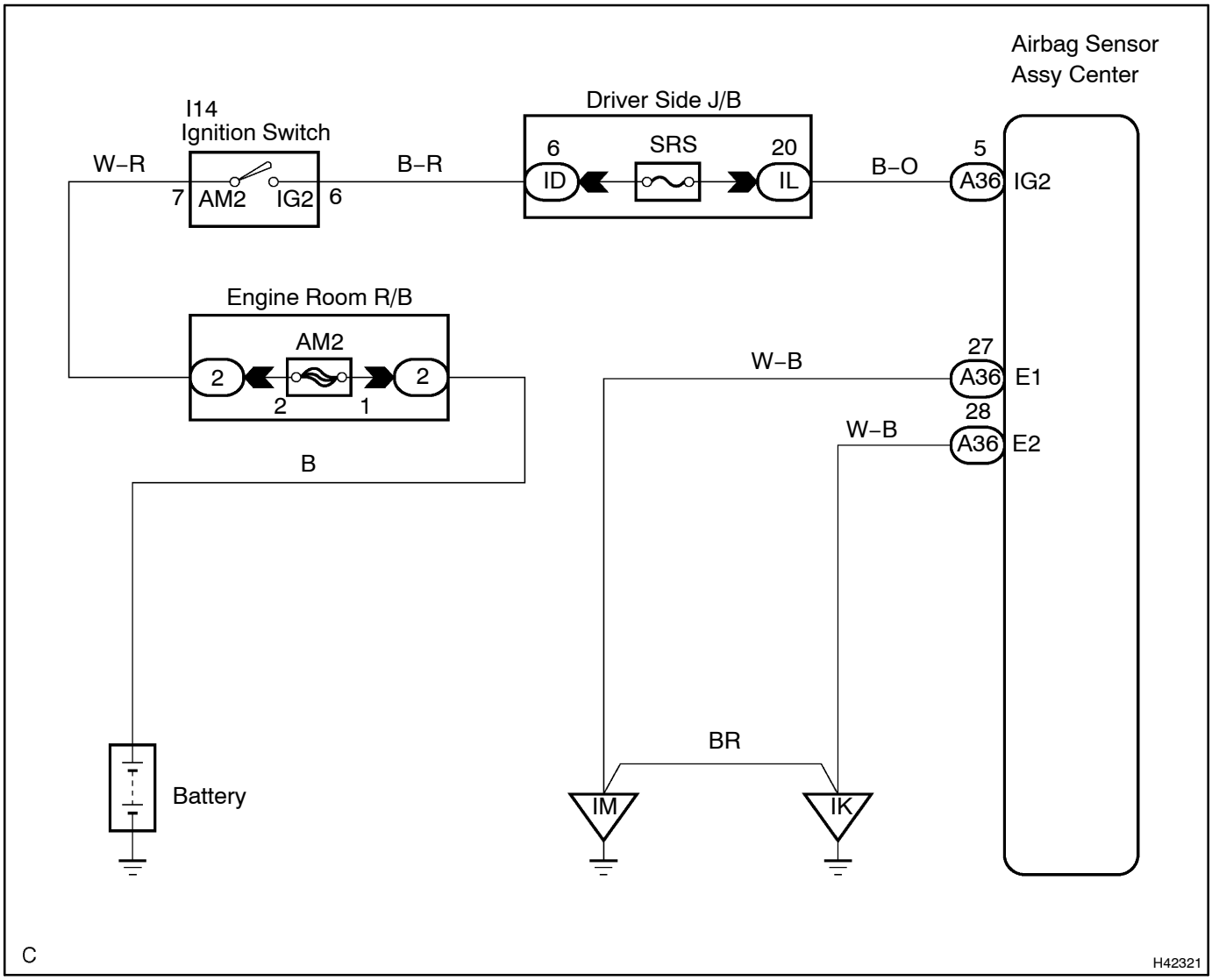
SOURCE VOLTAGE DROP

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.
The diagnosis system malfunction display for this circuit is differ from the other circuits in that when the SRS warning light remains on and the DTC shows a normal code, source voltage drop is indicated.
Malfunction in this circuit is not recorded in the airbag sensor assy center, and when the source voltage returns to normal, the SRS warning light automatically goes off.

DTC No.	Diagnosis
(Normal)	Source voltage drop

WIRING DIAGRAM



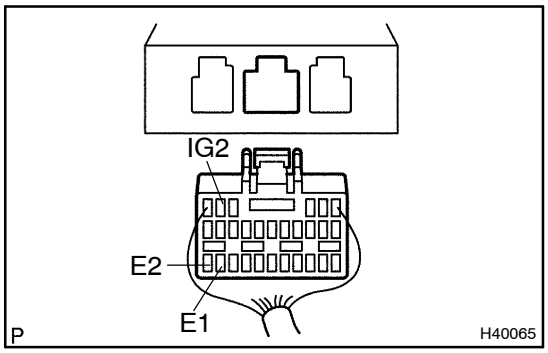
INSPECTION PROCEDURE

1 PREPARE FOR INSPECTION

(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Remove the horn button assy (See page 60–14).
(c) Disconnect the connector of the instr pnl pass l/door airbag assy (See page 60–27).
(d) Disconnect the connector of the front seat airbag assy RH and LH(See page 60–43).
(e) Disconnect the connector of the seat belt pretensioner RH and LH (See page 61–9 and 61–17).
(f) Disconnect the connector of the curtain shield airbag RH and LH(See page 60–36).
(g) Disconnect the connectors of the airbag sensor assy center (See page 60–50).
(h) Disconnect the connector of the airbag front RH sensor and airbag sensor front LH (See page 60–53).
(i) Disconnect the connector of the side airbag sensor assy RH and LH (See page 60–55 and 60–58).
(j) Disconnect the connector of the airbag sensor rear RH and LH (See page 60–61 and 60–63).
(k) Disconnect the connector of the seat position airbag sensor (See page 60–65).

CAUTION:
Store the horn button assy, instr pnl pass l/door airbag assy and front seat airbag assy with the front surface facing upward.

2 CHECK SOURCE VOLTAGE



(a) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(b) Turn the ignition switch to ON, and wait at least for 10 seconds.
(c) Measure the voltage between E1 (E2) and IG2 on the sensor and operate electric system (defogger, wiper, headlight, heater blower, etc.).
OK:
Voltage: 10 – 14 V

NG → **REPAIR OR REPLACE HARNESS BETWEEN BATTERY AND AIRBAG SENSOR ASSY CENTER, AND CHARGING SYSTEM**

OK

3	CHECK SRS WARNING LIGHT TURN OFF

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the horn button assy connectors.
(d) Connect the instr pnl pass l/door airbag assy connectors.
(e) Connect the front seat airbag assy RH and LH connectors.
(f) Connect the seat belt pretensioner RH and LH connectors.
(g) Connect the connector of the curtain shield airbag RH and LH connectors.
(h) Connect the airbag sensor assy center connectors.
(i) Connect the front airbag sensor RH and LH connectors.
(j) Connect the side airbag sensor assy RH and LH connectors.
(k) Connect the airbag sensor rear RH and LH connectors.
(l) Connect the seat position airbag sensor connector.
(m) Connect the negative (–) terminal cable to the battery.
(n) Turn the ignition switch to ON, and wait at least for 60 seconds.
(o) Operate electric system (defogger, wiper headlight, heater blower, etc.) and check that SRS warning light goes off.

OK:

SRS warning light is not light up.

NG → **REPAIR OR REPLACE HARNESS BETWEEN BATTERY AND AIRBAG SENSOR ASSY CENTER, AND CHARGING SYSTEM**

OK

4	CHECK AIR BAG SENSOR ASSY CENTER

SST 09843–18040

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 10 seconds.
(e) Clear the DTC stored in memory (See page 05–1122).
(f) Turn the ignition switch to LOCK, and wait at least for 10 seconds.
(g) Turn the ignition switch to ON, and wait at least for 10 seconds.
(h) Check the DTC (See page 05–1122).

OK:

DTC is not output.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

USE SIMULATION METHOD TO CHECK