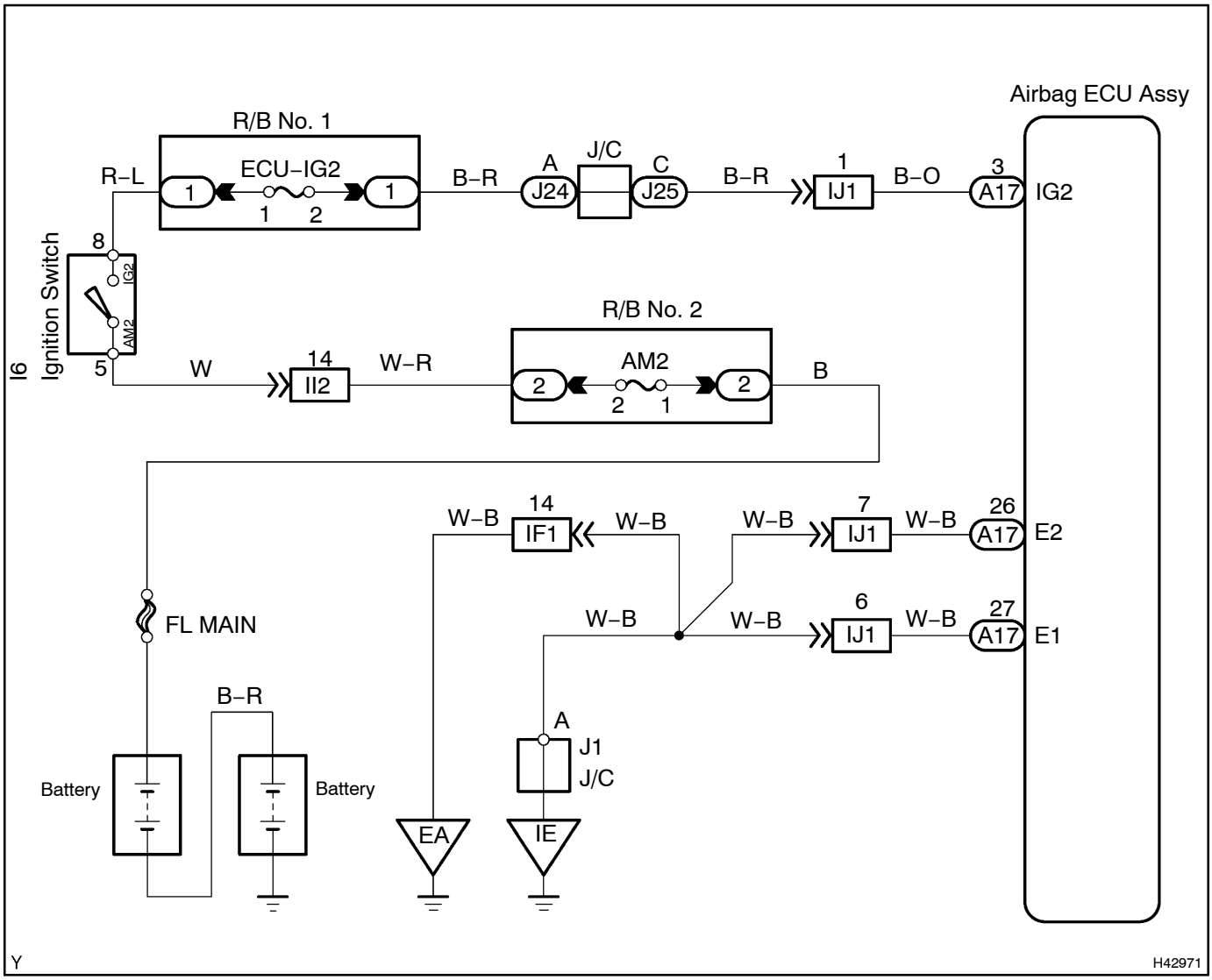
POWER SOURCE VOLTAGE DROP

CIRCUIT DESCRIPTION

The SRS has a voltage–increase circuit (DC–DC converter) in the airbag ECU assy in the case that the power source voltage drops.
When the power source voltage drops below the normal voltage, the voltage–increase circuit (DC–DC converter) functions to increase the voltage of the SRS to has normal voltage.
The diagnosis system malfunction display for this circuit is different from that for the other circuits. When the SRS warning light remains lit on and the DTC is a normal code, power source voltage drop is indicated.
When no malfunction of this circuit is not recorded in the airbag ECU assy and the source voltage returns to normal, the SRS warning light automatically goes off.

DTC No.	Diagnosis
(Normal)	Power source voltage drop

WIRING DIAGRAM



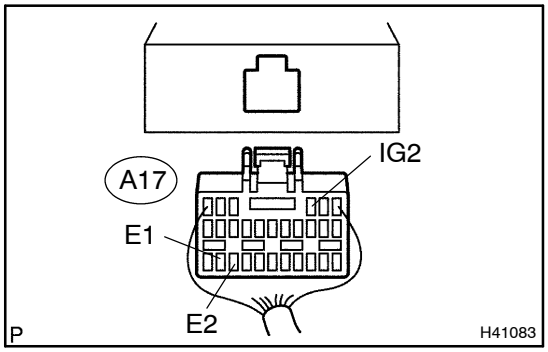
INSPECTION PROCEDURE

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 60–6).
(c) Disconnect the P16 seat belt pretensioner connectors (See page 60–3).
(d) Disconnect the connectors of the A17 airbag ECU assy (See page 60–19).
(e) Disconnect the connector of the A18 airbag sensor assy No. 2 (See page 60–22).

CAUTION:
Store the horn button assy so that the airbag deployment direction facing upward.

2 CHECK SOURCE VOLTAGE



(a) Connect the negative (–) terminal cable to the battery. Turn the ignition switch to ON and wait at least for 60 seconds.
(b) Measure the voltage between terminal E1 (E2) and each terminal of IG1 and IG2 of the A18 connector and operate the electric system (defogger, wiper, headlight, heater blower, etc.).
OK:
Voltage: 20 – 28 V

NG → **REPAIR OR REPLACE HARNESS BETWEEN BATTERY AND AIRBAG SENSOR ASSEMBLY, 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 A19 horn button connector.
(d) Connect the P16 seat belt pretensioner connectors.
(e) Connect the A17 airbag ECU assy connector.
(f) Connect A18 the airbag sensor No. 2.
(g) Connect the negative (–) terminal cable to the battery.
(h) Turn the ignition switch to ON and wait at least for 60 seconds.
(i) Operate the electric system (defogger, wiper, headlight, heater blower, etc.) and check that the SRS warning light goes off.
OK:
SRS warning light does not light up.

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

OK

4	CHECK AIR BAG ECU ASSY

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 A17 airbag ECU connector.
(d) Connect the negative (–) terminal cable to the battery and wait at least for 2 seconds.
(e) Turn the ignition switch to ON and wait at least for 20 seconds.
(f) Clear the DTC stored in the memory (See page 05–312).
(g) Turn the ignition switch to LOCK and wait at least for 20 seconds.
(h) Turn the ignition switch to ON and wait at least for 60 seconds.
(i) Check for DTC (See page 05–312).

OK:
DTC is not output.

NG → **REPLACE AIR BAG ECU ASSY**

OK

USE SIMULATION METHOD TO CHECK