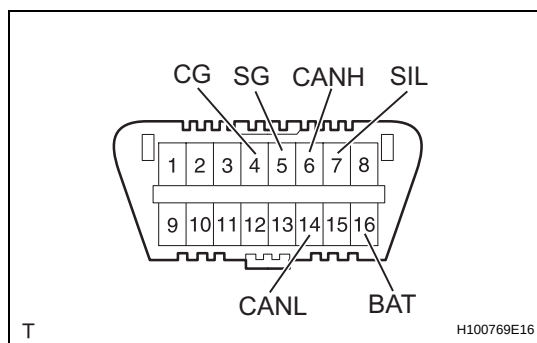


Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specification
d1-5 (SVC3) - d1-3 (SGD3)	GR - W	Rear occupant classification sensor LH power supply line	Power switch on (IG), a load is applied to rear occupant classification sensor LH	4.5 to 5.1 V
d1-6 (SVC4) - d1-4 (SGD4)	V - BR	Rear occupant classification sensor RH power supply line	Power switch on (IG), a load is applied to rear occupant classification sensor RH	4.5 to 5.1 V
d1-7 (SIG1) - d1-1 (SGD1)	SB - G	Front occupant classification sensor LH signal line	Power switch on (IG), a load is applied to front occupant classification sensor LH	0.2 to 4.9 V
d1-8 (SIG2) - d1-2 (SGD2)	L - O	Front occupant classification sensor RH signal line	Power switch on (IG), a load is applied to front occupant classification sensor RH	0.2 to 4.9 V
d1-9 (SIG3) - d1-3 (SGD3)	Y - W	Rear occupant classification sensor LH signal line	Power switch on (IG), a load is applied to rear occupant classification sensor LH	0.2 to 4.9 V
d1-10 (SIG4) - d1-4 (SGD4)	R - BR	Rear occupant classification sensor RH signal line	Power switch on (IG), a load is applied to rear occupant classification sensor RH	0.2 to 4.9 V
d1-11 (SVC1) - d1-1 (SGD1)	R - G	Front occupant classification sensor LH power supply line	Power switch on (IG), a load is applied to front occupant classification sensor LH	4.5 to 5.1 V
d1-12 (SVC2) - d1-2 (SGD2)	W - O	Front occupant classification sensor RH power supply line	Power switch on (IG), a load is applied to front occupant classification sensor RH	4.5 to 5.1 V



DIAGNOSIS SYSTEM

1. CHECK DLC3

- (a) The ECU uses ISO 15765-4 for communication. The terminal arrangement of the DLC3 complies with SAE J1962 and matches the ISO 15765-4 format.

Symbols (Terminal No.)	Terminal Description	Condition	Pulse condition
SIL (7) - SG (5)	Bus "+" Line	During transmission	Pulse generation
CG (4) - Body ground	Chassis Ground	Always	Below 1 Ω
SG (5) - Body ground	Signal ground	Always	Below 1 Ω
BAT (16) - Body ground	Battery positive	Always	10 to 14 V
CANH (6) - CANL (14)	CAN bus line	Power switch off (*)	54 to 69 Ω
CANH (6) - BAT (16)	HIGH-level CAN bus line	Power switch off (*)	6 k Ω or higher
CANH (6) - CG (4)	HIGH-level CAN bus line	Power switch off (*)	200 Ω or higher
CANL (14) - BAT (16)	LOW-level CAN bus line	Power switch off (*)	6 k Ω or higher
CANL (14) - CG (4)	LOW-level CAN bus line	Power switch off (*)	200 Ω or higher

NOTICE:

***: Before measuring the resistance, leave the vehicle as is for at least 1 minute and do not operate the power switch, any other switches, or the door.**

If the result is not as specified, the DLC3 may have a malfunction. Repair or replace the harness and connector.

HINT:

If the display shows a communication error message when connecting the cable of the intelligent tester to the DLC3, turning the power switch on (IG) and operating the intelligent tester, there is a problem on the vehicle side or tester side.

- If communication is normal when the tester is connected to another vehicle, inspect the DLC3 on the original vehicle.
- If communication is still not possible when the tester is connected to another vehicle, the problem is probably in the tester itself. Consult the Service Department listed in the tester's instruction manual.

2. SYMPTOM SIMULATION

HINT:

The most difficult case in troubleshooting is when no symptoms occur. In such cases, a thorough customer problem analysis must be carried out. Then the same or similar conditions and environment in which the problem occurred in the customer's vehicle should be simulated. No matter how experienced or skilled a technician may be, if he proceeds to troubleshoot without confirming the problem symptoms, he will likely overlook something important and make a wrong guess at some points in the repair operation.

This leads to a standstill in troubleshooting.

- (a) Vibration method: When vibration seems to be the major cause.

HINT:

Perform the simulation method only during the primary check period (for approximately 6 seconds after the power switch is turned on (IG)).

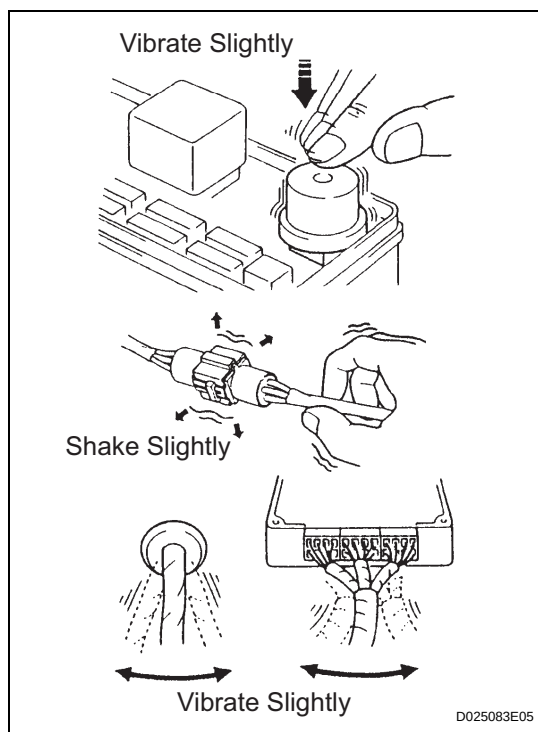
- (1) Slightly vibrate the part of the sensor considered to be the problem cause with your fingers and check whether the malfunction occurs.

HINT:

Shaking the relays too strongly may result in open relays.

- (2) Slightly shake the connector vertically and horizontally.
 (3) Slightly shake the wire harness vertically and horizontally.

The connector joint and fulcrum of the vibration are the major areas to be checked thoroughly.



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- (b) Simulation method for DTC B1794:
Turn the power switch from the off to on (IG), hold it for 10 seconds, and back to off again 50 times in a row.

HINT:

DTC B1794 is output if the occupant classification ECU receives the power switch off-on (IG)-off signal 50 times in a row when a malfunction occurs in the power circuit for the occupant classification system.

3. FUNCTION OF PASSENGER AIRBAG ON/OFF INDICATOR

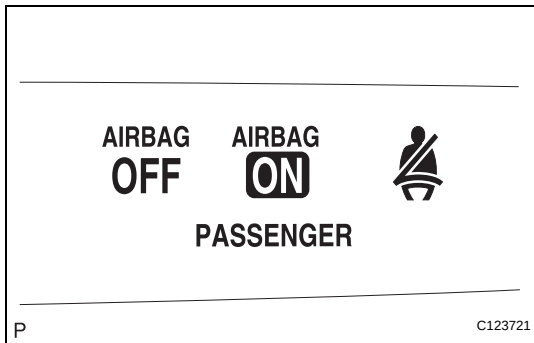
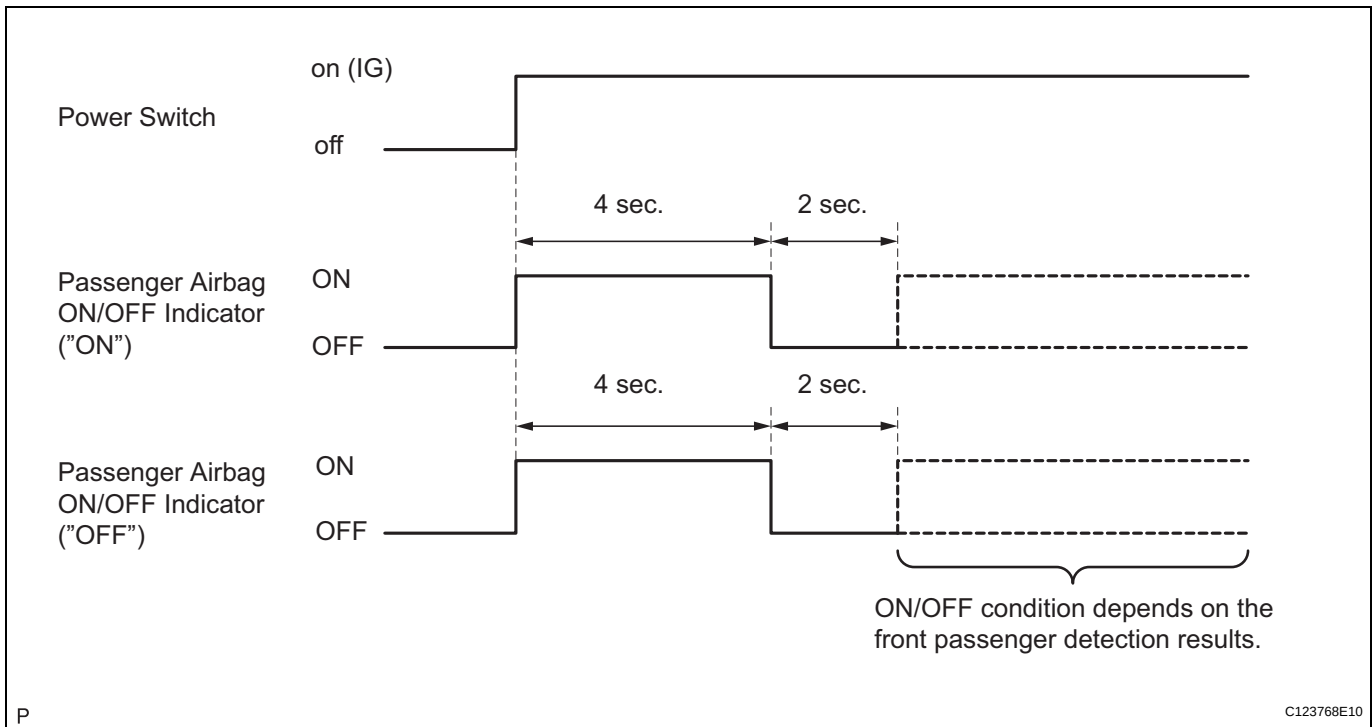
- (a) Initial check.
- (1) Turn the power switch on (IG).
 - (2) The passenger airbag ON/OFF indicator ("ON" and "OFF") comes on for approximately 4 seconds, then goes off for approximately 2 seconds.
 - (3) Approximately 6 seconds after the power switch is turned to on (IG), the passenger airbag ON/OFF indicator will show ON or OFF depending on the conditions listed below.

Condition	ON Indicator	OFF Indicator
Vacant	OFF	OFF
Adult is seated. (Above 36 kg (79.37 lb))	ON	OFF
Child is seated. (Less than 36 kg (79.37 lb))	OFF	ON
Child restraint system is set. (*)	OFF	ON
Front passenger occupant classification system failure	OFF	ON

*: Child restraint system less than 7 kg (15.43 lb) and passenger side buckle switch is ON, then 7 to 36 kg (15.43 to 79.37 lb) is set.

HINT:

- The passenger airbag ON/OFF indicator is based on the timing chart below in order to check the indicator light circuit.
- When the occupant classification system has trouble, both the SRS warning light and the passenger airbag ON/OFF indicator ("OFF") come on. In this case, check the DTCs in "AIRBAG SYSTEM" first.



4. CHECK PASSENGER AIRBAG ON/OFF INDICATOR

- Turn the power switch on (IG).
- Check that the passenger airbag ON/OFF indicator ("ON" and "OFF") come on for approximately 4 seconds, then goes off for approximately 2 seconds.

HINT:

Refer to the table in step 3 regarding the passenger airbag ON/OFF indicator when the power switch is turned on (IG) and approximately 6 seconds pass.