

Computers and Control Systems: Diagnostic Trouble Code Tests and Associated Procedures

B1706

DTC B1706 PASSENGER BUCKLE PRETENSIONER RESISTANCE TOO HIGH

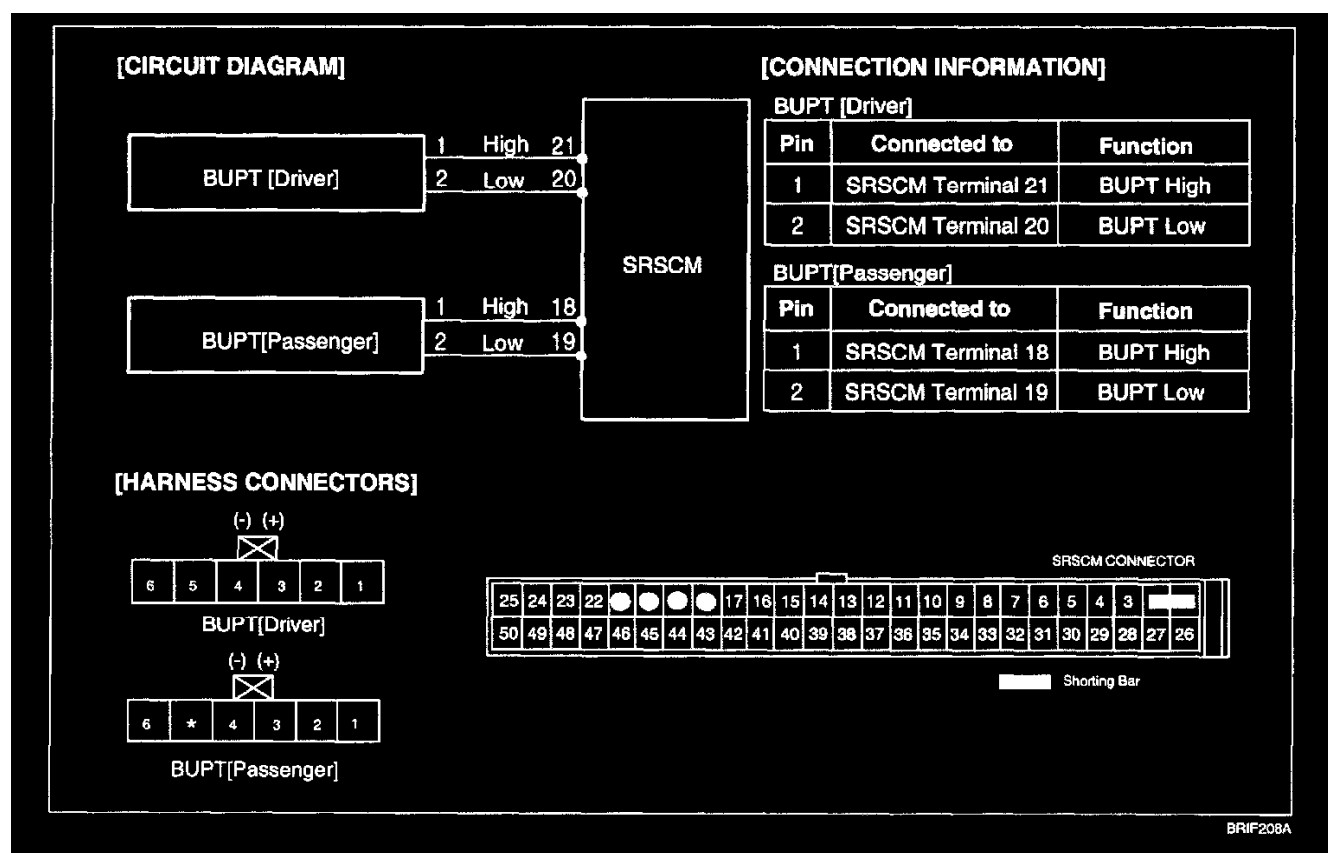
DTC DESCRIPTION

The Buckle Pretensioner circuit consists of the SRSCM and two Buckle Pretensioners (BUPT). The SRSCM sets above DTC(s) if it detects that the resistance of BUPT squib is too high or low.

DTC	Condition	Probable cause
B1701 B1702 B1706 B1707	<ul style="list-style-type: none">Too high or low resistance between BUPT high(+) and BUPT low (-)Seat Buckle Pretensioner (BUPT) MalfunctionSRSCM Malfunction	<ul style="list-style-type: none">Open or short circuit on wiring harnessSeat Buckle Pretensioner (BUPT) squibSRSCM

DTC Detecting Condition

DTC DETECTING CONDITION



Schematic Diagram

SCHEMATIC DIAGRAM

SPECIFICATION

BUPT resistance : $1.5 \leq R \leq 5.7$ Ohm

TERMINAL & CONNECTOR INSPECTION

- Visually inspect all connectors related to the affected circuit for damage and secure connection.
- Inspect terminals for damage and corrosion.

CAUTION: Avoid damaging connectors during the inspection process.

- Are any problems found?

YES: Go to next step.

NO: After repairing the trouble part, check whether DTC occurs or not.

INSPECTION PROCEDURE

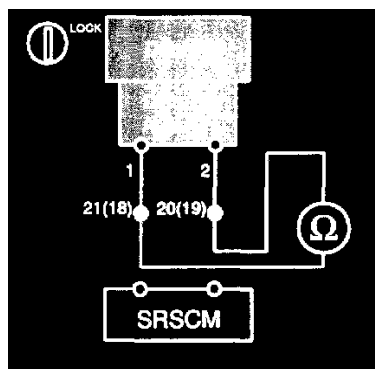
1. PREPARATION

1. Turn the ignition switch to LOCK.
2. Disconnect the negative (-) terminal from the battery and wait for at least **3 minutes**.
3. Remove the DAB module and disconnect the DAB connector.
4. Disconnect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
5. Disconnect the SRSCM connector.

2. CHECK BUPT RESISTANCE

CAUTION: Never attempt to measure the circuit resistance of the airbag module(squib) even if you are using the specified tester.

1. Connect the Dummy and the Dummy Adapter on BUPT harness connector.



2. Measure resistance between the terminal 21 (18) and 20(19) of SRSCM harness connector.

BUPT resistance : **1.5 ≤ R ≤ 5.7 Ohm**

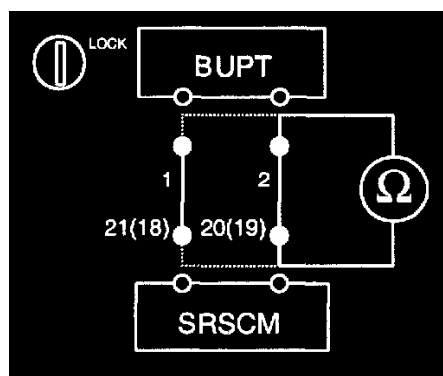
3. Is the measured resistance within specification?

YES: Replace the Buckle Pretensioner(BUPT) module.

NO: Check open circuit.

3. CHECK OPEN CIRCUIT

1. Measure resistance between the terminal 1 of BUPT harness connector and the terminal 21(18) of SRSCM harness connector.



2. Measure resistance between the terminal 2 of BUPT harness connector and the terminal 20(19) of SRSCM harness connector.

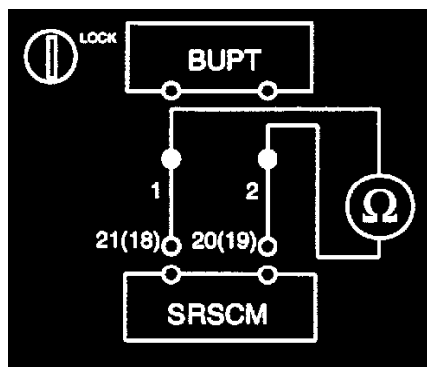
Specification(resistance) : below **1 Ohm**

3. Is the measured resistance within specification?

YES: Check short circuit.

NO: Repair or replace the wiring harness between the BUPT and the SRSCM.

4. CHECK SHORT CIRCUIT



1. Measure resistance between the terminal 1 and 2 of BUPT harness connector.

Specification(resistance) : infinite

2. Is the measured resistance within specification?

YES: Go to next step.

NO: Repair or replace the wiring harness between the BUPT and the SRSCM.

5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN

1. Install the DAB module and connect the DAB connector.
2. Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
3. Connect the SRSCM connector.
4. Connect the negative (-) terminal to the battery.
5. Connect a Hi-Scan(Pro) to the data link connector.
6. Turn the ignition switch to ON .
7. Clear the DTC stored in the SRSCM memory with the Hi-Scan(Pro).
8. Turn the ignition switch to LOCK and wait for at least **30 seconds**.
9. Turn the ignition switch to ON and wait for at least **30 seconds**.
10. Check the vehicle again with the Hi-Scan(Pro).
Does the above DTC(s) go off?

YES: Problem is intermittent or was repaired and SRSCM memory was not cleared.

NO: Replace the SRSCM with a new one, and then check the vehicle again. At this time, if the vehicle normally operates with a new SRSCM, the fault may be the SRSCM (Replace SRSCM).