# SEAT BELT CONTROL SYSTEM

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# CONTENTS

BASIC INSPECTION
DIAGNOSIS AND REPAIR WORK FLOW 3 Work Flow
SYSTEM DESCRIPTION6
PRE-CRASH SEAT BELT SYSTEM       6         System Diagram       6         System Description       6         Component Parts Location       7         Component Description       7
DIAGNOSIS SYSTEM (PRE-CRASH SEAT
BELT)
DTC/CIRCUIT DIAGNOSIS10
U1000 CAN COMM CIRCUIT10 Description
B2451 SB MOTOR RH CIRC11Description11DTC Logic11Diagnosis Procedure11
B2452 SB MOTOR LH CIRC13
Description
B2453 BR STROKE SEN CIRC15
Description
B2454 MOTOR PWR SUP CIRC

DTC Logic18 Diagnosis Procedure18	F
B2455 PSB C/U INT CIRCUIT19 Description	G
SEAT BELT BUCKLE SWITCH20	30
DRIVER SIDE	l
PASSENGER SIDE       21         PASSENGER SIDE : Description       21         PASSENGER SIDE : Component Function Check       24	K
PASSENGER SIDE : Diagnosis Procedure22 PASSENGER SIDE : Component Inspection23	L
POWER SUPPLY AND GROUND CIRCUIT24 Diagnosis Procedure	M
ECU DIAGNOSIS INFORMATION25	
PRE-CRASH SEAT BELT CONTROL UNIT25 Reference Value	Ν
DTC Index26 Wiring Diagram - SEAT BELT CONTROL SYS- TEM	0
SYMPTOM DIAGNOSIS31	Ρ
PRE-CRASH SEAT BELT DOES NOT OPER- ATE31	
BOTH SIDES	

DRIVER SIDE	31
DRIVER SIDE · Diagnosis Procedure	31
DIVIVEN OIDE : Diagnosis i roccuure	51
PASSENGER SIDE	31
PASSENGER SIDE : Diagnosis Procedure	31
	22
	33
PRECAUTIONS	33
PRECAUTIONS	33
PRECAUTIONS Precaution for Supplemental Restraint System	33
PRECAUTIONS Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN-	33
PRECAUTIONS Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- SIONER"	<b>33</b>
PRECAUTIONS Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- SIONER"	<b> 33</b>
PRECAUTIONS Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- SIONER" Precaution for Seat Belt Service	<b> 33</b> 33 33
PRECAUTIONS Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- SIONER" Precaution for Seat Belt Service Precaution for Battery Service	33 33 33

PERIODIC MAINTENANCE	. 35
PRE-INSPECTION FOR DIAGNOSTIC	. <b>. 35</b> 35
BRAKE PEDAL STROKE SENSOR	<b>36</b>
Exploded View	36
Removal and Installation	36
PRE-CRASH SEAT BELT CONTROL UNIT	<b>37</b>
Exploded View	37
Removal and Installation	37

< BASIC INSPECTION >

# BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

#### Work Flow



# **1.**GET INFORMATION FOR SYSTEM

Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much as possible when the customer brings the vehicles in.

#### >> GO TO 2.

# 2.study and understand the system description

Understand the operation condition or non-operation condition of pre-crash seat belt. Refer to <u>SBC-6. "System</u> <u>Description"</u>.

>> GO TO 3.

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# DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

# **3.**CHECK DTC

Perform "Self-diagnosis procedure" of appropriate DTC to check if DTC is detected again. At this time, always connect CONSULT-III to the vehicle, and then check the diagnosis results in real time on

"DATA MONITOR (AUTO RECORD)".

There is no priority for each DTC. Record them based on the following rules.

Current malfunction: Record all DTCs detected.

Past malfunction: Record up to 5 DTCs. When the 6th DTC is detected, it is overwritten to the last recorded DTC.

Is DTC detected?

YES >> GO TO 4.

NO >> Follow the diagnosis simulation test to check. Refer to GI-41, "Intermittent Incident".

**4.**PERFORM PRELIMINARY CHECK

Perform preliminary check. Refer to <u>SBC-31, "BOTH SIDES : Diagnosis Procedure"</u>.

>> GO TO 5.

**5.** DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Identify the malfunctioning system with "Malfunctioning system by symptom diagnosis". Refer to <u>SBC-31,</u> "BOTH SIDES : Diagnosis Procedure".

With CONSULT-III>>GO TO 6. Without CONSULT-III>>GO TO 7 (Parts system). Without CONSULT-III>>GO TO 8 (Power supply, ground system).

**6.**PERFORM DTC CONFIRMATION PROCEDURE"

Perform the inspection with "DTC CONFIRMATION PROCEDURE" of the applicable system.

>> GO TO 7.

**1.**DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Identify the malfunctioning part with "Diagnosis Procedure".

Are malfunctioning parts detected?

YES >> GO TO 10. NO >> GO TO 9.

8. PERFORM COMPONENT FUNCTION CHECK

Identify the malfunctioning part with "Component Function Check".

Are malfunctioning parts detected?

YES >> GO TO 10. NO >> GO TO 9.

9. PERFORM COMPONENT INSPECTION

Perform the inspection with "Component Inspection".

>> GO TO 10.

10.REPAIR OR REPLACE THE MALFUNCTIONING PART

Repair or replace the specified malfunctioning parts.

After repairing or replacing, reconnect parts or connector disconnected in "Diagnosis Procedure", and then erase DTC if necessary. Refer to <u>SBC-9</u>, "CONSULT-III Function".

>> GO TO 11.

**11.**FINAL CHECK

Perform "CONSULT-III function" again to check that the repair is performed correctly.

Revision: 2009 October

# DIAGNOSIS AND REPAIR WORK FLOW

#### < BASIC INSPECTION >

Check the check	that malfunctions are not reproduced when obtaining the malfunction information from the customer, g to the symptom inspection result in step 4.	A
<u>Are all r</u>	malfunctions corrected?	
YES	<ul> <li>&gt; • Before delivering the vehicle to the customer, check that that DTC is erased.</li> <li>• INSPECTION END</li> </ul>	В

NO >> DTC is reproduced: GO TO 6.

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#### < SYSTEM DESCRIPTION >

# SYSTEM DESCRIPTION PRE-CRASH SEAT BELT SYSTEM

# System Diagram



# System Description

INFOID:000000004673712

- Pre-crash seat belt is adopted to RH/LH seat belts
- Pre-crush seat belt retracts shoulder webbing by a motor in pre-tensioner seat belt with control unit built in motor
- Facilitates an emergency operation by restraining change in occupant posture while emergency braking is being applied, intelligent brake is being activated
- Restrains occupant faster and firmly, maximizes the effect of other devices like air bag, and reduces possible damage if a collision is unavoidable
- Provides occupant a sense of ease by pulling occupants body to seat during braking that does not result a collision
- Retracts shoulder webbing and rewinds excessive seat belt slack when occupant is getting in or out of the vehicle, or fastening or unfastening seat belt

#### FUNCTION DESCRIPTION

Pre-crush seat belt is activated in the conditions as per the following. Emergency braking is applied

#### **OPERATION CONDITION**

The activation and deactivation conditions of pre-crush seat belt are as per the following.

	Activating condition	Deactivating condition
When emergency braking is applied	<ul><li>Judges that emergency braking is applied</li><li>Vehicle speed is 15 km/h (9 MPH) or more</li></ul>	<ul><li>When the vehicle accelerates</li><li>The vehicle stays stopped</li></ul>

# OPERATION PROHIBITION CONDITION

- Seat belt is not fastened (Only the seat belt that is not fastened does not operate)
- At fail-safe condition

# SBC-6

# PRE-CRASH SEAT BELT SYSTEM

#### < SYSTEM DESCRIPTION >

# **Component Parts Location**

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- 1. Seat belt buckle switch (passenger side) B213
- Seat belt buckle switch (driver side) B13
- A. Behind the glove box

**Component Description** 

B. Behind the driver instrument panel (lower)

2.

Pre-crash seat belt control unit M110 3.

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Brake pedal stroke sensor E116

ComponentFunctionPre-crash seat belt control unitIt controls pre-crash seat belt motor according to input signal.Pre-crash seat belt motor<br/>(Seat belt motor [RH/LH])It is built into seat belt retractor, and it pulls, returns, and maintains according to<br/>the motor rotation.Brake pedal stroke sensor• It changes voltage according to brake pedal depressed amount and sends the<br/>signal to pre-crash seat belt control unit.Brake pedal stroke sensor• There are 2 signals (brake pedal stroke sensor 1 and 2) sent from the brake<br/>pedal stroke sensor. Pre-crash seat belt control unit will judge the stroke<br/>amount and the speed of the brake pedal according to the voltage of the signal<br/>sent by each side.

# PRE-CRASH SEAT BELT SYSTEM

#### < SYSTEM DESCRIPTION >

Component	Function
Seat belt buckle switch	It is arranged in the seat belt buckle and judges whether the seat belt is fastened or not fastened.
Unified meter and A/C amp	It transmits the vehicle status to pre-crash seat belt control unit using the CAN communication system.

# **DIAGNOSIS SYSTEM (PRE-CRASH SEAT BELT)**

#### < SYSTEM DESCRIPTION >

# DIAGNOSIS SYSTEM (PRE-CRASH SEAT BELT)

# **CONSULT-III** Function

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Diagnosis for pre-crash seat belt system can be performed using CONSULT-III.

#### APPLICATION ITEM

Part to be diagnosed	Diagnosis Mode	Function description
	Self-diagnosis Results	<ul> <li>Displays data recorded when a malfunction is detected.</li> <li>Can print out the display.</li> <li>Erases DTC recorded in memory.</li> </ul>
Pre-crash seat belt	Data Monitor	Displays input data for pre-crash seat belt control unit in real time.
	CAN DIAG SUPPORT MNTR	Monitors communication status of CAN communi- cation.
	ECU PART NUMBER	Displays pre-crash seat belt control unit part num- ber.

#### SELF-DIAGNOSIS RESULTS

#### CAUTION:

When malfunctions are detected in several systems, including the CAN communication [U1000], troubleshoot the CAN communication [U1000].

Diagnostic item	Malfunction judgement criteria	Refer to
CAN COMM CIRC [U1000]	CAN communication is malfunctioning.	<u>SBC-10</u>
Seat belt motor system RH [B2451]	Circuit of seat belt motor (RH) is open or shorted.	<u>SBC-11</u>
Seat belt motor system LH [B2452]	Circuit of seat belt motor (LH) is open or shorted.	<u>SBC-13</u>
B-pedal sensor system [B2453]	Circuit of brake pedal stroke sensor is open or shorted.	<u>SBC-15</u>
Motor power supply circuit system [B2454]	Circuit of motor power supply is open or shorted. <b>CAUTION:</b> Malfunction is judged when 30A (F/L-G) fusible link blows out even if motor power supply circuit is not malfunctioning.	<u>SBC-18</u>

#### NOTE:

Timing display judges the status of self-diagnosis results judged from each input signal.

- When malfunction is found in the past and it is normal now, "MEMORY" is displayed.
- When malfunction is found at present or found immediately after the self-diagnosis, "CURRENT" is displayed.
- When malfunction is not found in the past and it is normal now, nothing is displayed. CAUTION:

Some malfunctions are displayed at low battery voltage (when keeping 7 to 8 V for 2 seconds) even if the system is not malfunctioning. Erase DTC memory and do not replace any parts after making sure that the system is normal especially if the malfunctions are displayed after replacing battery.

#### DATA MONITOR

Monitor item	[Operation or unit]	Display item	0
B PEDAL SIG1	[V]	Brake pedal stroke sensor 1 signal voltage is displayed.	
B PEDAL SIG2	[V]	Brake pedal stroke sensor 2 signal voltage is displayed.	P
SB SW RH SIG	[ON/OFF]	ON/OFF status of RH seat belt switch signal is displayed.	
SB SW LH SIG	[ON/OFF]	ON/OFF status of LH seat belt switch signal is displayed.	
Vehicle speed sensor	[km/h]	Vehicle speed signal is displayed.	

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# DTC/CIRCUIT DIAGNOSIS U1000 CAN COMM CIRCUIT

# Description

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CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-27, "CAN Communication Signal Chart".

# DTC Logic

INFOID:000000004679399

# DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1000	CAN COMM CIRCUIT	When BCM cannot communicate CAN com- munication signal continuously for 2 seconds or more.	CAN communication system

# Diagnosis Procedure

INFOID:000000004679400

# **1.**PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 seconds or more.
- 2. Check "Self Diagnostic Result".
- Is DTC "U1000" displayed?
- YES >> Refer to LAN-18, "Trouble Diagnosis Flow Chart".
- NO >> Refer to GI-41, "Intermittent Incident".

# **B2451 SB MOTOR RH CIRC**

#### < DTC/CIRCUIT DIAGNOSIS >

# B2451 SB MOTOR RH CIRC

Description

- It pulls, returns, and maintains according to the motor rotation.
- It is built into the seat belt retractor.
- It is installed to back of RH center pillar garnish.

# **DTC Logic**

#### DTC DETECTION LOGIC

DTC No.	Self-diagnosis item	DTC Detection Condition	Possible causes
B2451	Seat belt motor system RH	Circuit of seat belt motor (RH) is open or shorted	<ul> <li>Open circuit, short circuit to battery, and short circuit to ground in seat belt motor (RH) harness</li> <li>Pre-crash seat belt control unit</li> </ul>

#### DTC CONFIRMATION PROCEDURE

#### **1.**SELF-DIAGNOSIS WITH PRE-CRASH SEAT BELT MOTOR RH CIRCUIT

- 1. Turn ignition switch ON.
- 2. Check "Self-diagnostic result" with CONSULT-III.

#### Is DTC detected?

- YES >> Refer to <u>SBC-11</u>, "Diagnosis Procedure".
- NO >> Pre-crash seat belt motor RH system is normal.

#### Diagnosis Procedure

# 1.CHECK PRE-CRASH SEAT BELT MOTOR RH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect pre-crash seat belt control unit connector and pre-crash seat belt motor RH connector.
- Check continuity between pre-crash seat belt control unit harness connector and pre-crash seat belt motor RH harness connector.

Pre-crash seat	belt control unit	Pre-crash sea	t belt motor RH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M110	1	Page	1	Existed
INT TO	3	D220	2	EXISTED

#### 4. Check continuity between pre-crash seat belt control unit harness connector and ground.

Pre-crash sea	Pre-crash seat belt control unit		Continuity	
Connector	Terminal	Ground	Continuity	Ν
M110	1	Ground	Not ovisted	
IVITIO	3		Not existed	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.self-diagnosis with pre-crash seat belt motor RH circuit

1. Replace pre-crash seat belt motor RH.

2. Connect pre-crash seat belt control unit connector and pre-crash seat belt motor RH connector.

3. Turn ignition switch ON.

4. Check "Self-diagnostic result" with CONSULT-III.

#### Is DTC detected?

YES >> Replace pre-crash seat belt control unit.

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# **B2451 SB MOTOR RH CIRC**

< DTC/CIRCUIT DIAGNOSIS >

NO >> INSPECTION END

# **B2452 SB MOTOR LH CIRC**

#### < DTC/CIRCUIT DIAGNOSIS >

# **B2452 SB MOTOR LH CIRC**

# Description

- It pulls, returns, and maintains according to the motor rotation.
- It is built into the seat belt retractor.
- It is installed to the back of LH center pillar garnish.

# DTC Logic

#### DTC DETECTION LOGIC

DTC No.	Self-diagnosis item	DTC Detection Condition	Possible causes
B2452	Seat belt motor system LH	Circuit of seat belt motor (LH) is open or shorted	<ul> <li>Open circuit, short circuit to battery, and short circuit to ground in seat belt motor (LH) harness</li> <li>Pre-crash seat belt control unit</li> </ul>
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- 1 Turn ignition switch ON.
- 2. Check "Self-diagnostic result" with CONSULT-III.

#### Is DTC detected?

- >> Refer to SBC-13, "Diagnosis Procedure". YES
- NO >> Pre-crash seat belt motor LH system is normal.

#### Diagnosis Procedure

# 1.CHECK PRE-CRASH SEAT BELT MOTOR LH CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect pre-crash seat belt control unit connector and pre-crash seat belt motor LH connector. 2.
- 3. Check continuity between pre-crash seat belt control unit harness connector and pre-crash seat belt motor LH harness connector.

	Continuity	t belt motor LH	Pre-crash seat	elt control unit	Pre-crash seat b
	Continuity	Terminal	Connector	Terminal	Connector
_	Eviptod	2	P29	4	M110
	Existed	1	D20	6	MITIO

#### 4 Check continuity between pre-crash seat belt control unit harness connector and ground.

Pre-crash seat	Pre-crash seat belt control unit		Continuity	
Connector	Terminal	Ground	Continuity	Ν
M110	4	Gibana	Not ovisted	
WITO	6		NOT EXISTED	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.self-diagnosis with pre-crash seat belt motor LH circuit

1. Replace pre-crash seat belt motor LH.

- 2. Connect pre-crash seat belt control unit connector and pre-crash seat belt motor LH connector.
- 3. Turn ignition switch ON.
- Check "Self-diagnostic result" with CONSULT-III. 4.

#### Is DTC detected?

YES >> Replace pre-crash seat belt control unit.

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# **B2452 SB MOTOR LH CIRC**

< DTC/CIRCUIT DIAGNOSIS >

NO >> INSPECTION END

#### **B2453 BR STROKE SEN CIRC**

#### < DTC/CIRCUIT DIAGNOSIS >

# **B2453 BR STROKE SEN CIRC**

# Description

- It changes voltage according to brake pedal depressed amount and sends the signal to pre-crash seat belt control unit.
- There are 2 signals (brake pedal stroke sensor 1 and 2) sent from the brake pedal stroke sensor. Pre-crash seat belt control unit judges the stroke amount and the speed of the brake pedal according to the voltage of the signal sent by each side.
- It is installed to back of driver instrument panel (lower).

# DTC Logic

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#### DTC DETECTION LOGIC

DTC No.	Self-diagnosis item	DTC Detection Condition	Possible causes	
B2453	BR STROKE SEN CIRC	Circuit of brake pedal stroke sensor output is open or shorted	<ul> <li>Open circuit, short circuit to battery, and short circuit to ground in brake pedal stroke sensor harness</li> <li>Pre-crash seat belt control unit</li> <li>Brake pedal stroke sensor</li> </ul>	F

#### DTC CONFIRMATION PROCEDURE

# **1.**SELF-DIAGNOSIS WITH PRE-CRASH SEAT BELT CONTROL UNIT

- 1. Turn ignition switch ON.
- 2. Check "Self-diagnostic result" with CONSULT-III.
- Is DTC detected?
- YES >> Refer to <u>SBC-15, "Diagnosis Procedure"</u>.
- NO >> INSPECTION END

#### **Diagnosis Procedure**

#### **1.**CHECK PRE-CRASH SEAT BELT CONTROL UNIT INPUT SIGNAL

- 1. Turn ignition switch ON.
- 2. Select "B PEDAL SIG1" and "B PEDAL SIG2" in "DATA MONITOR" mode with CONSULT-III.
- 3. Check "B PEDAL SIG1" and "B PEDAL SIG2" indication under the following conditions.

Monitor item	Condition	Voltage (V) (Approx.)	L
B PEDAL SIG1		$1 \rightarrow 4$	
B PEDAL SIG2	Drake released $\rightarrow$ depressed	$4 \rightarrow 1$	IV

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

**2.**CHECK BRAKE PEDAL STROKE SENSOR POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect brake pedal stroke sensor connector.

3. Check voltage between brake pedal stroke sensor harness connector and ground.

-					Р
_	Brake pedal stroke sensor			Voltage (V)	
	Connector	Terminal	Ground	(Approx.)	
-	E116	2		5	

Is the inspection result normal?

YES >> GO TO 3.

< DTC/CIRCUIT DIAGNOSIS >

# **3.**CHECK BRAKE PEDAL STROKE SENSOR CIRCUIT

- 1. Disconnect pre-crash seat belt control unit connector.
- 2. Check continuity between pre-crash seat belt control unit harness connector and brake pedal stroke sensor harness connector.

Pre-crash seat	belt control unit	Brake pedal	stroke sensor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	16		1	
M110	20	E116	3	Existed
	21		4	

3. Check continuity between pre-crash seat belt control unit harness connector and ground.

Pre-crash seat	belt control unit		Continuity
Connector	Terminal		Continuity
	16	Ground	
M110	20		Not existed
	21		

Is the inspection result normal?

YES >> Refer to <u>SBC-16</u>, "Component Inspection".

NO >> Repair or replace harness between pre-crash seat belt control unit and brake pedal stroke sensor.

**4.**CHECK BRAKE PEDAL STROKE SENSOR POWER SUPPLY CIRCUIT

- 1. Disconnect pre-crash seat belt control unit connector.
- 2. Check continuity between pre-crash seat belt control unit harness connector and brake pedal stroke sensor harness connector.

Pre-crash seat belt control unit		Brake pedal stroke sensor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M110	18	E116	2	Existed

3. Check continuity between pre-crash seat belt control unit and ground.

Pre-crash seat	belt control unit		Continuity
Connector	Terminal	Ground	Continuity
M110	18		Not existed

Is the inspection result normal?

YES >> Replace pre-crash seat belt control unit. Refer to <u>SBC-37, "Removal and Installation"</u>.

NO >> Repair or replace harness between pre-crash seat belt control unit and brake pedal stroke sensor.

**5.**CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

**Component Inspection** 

INFOID:000000004673918

# **1.**CHECK BRAKE PEDAL STROKE SENSOR

1. Turn ignition switch OFF.

2. Disconnect brake pedal stroke sensor connector.

3. Check that continuity between brake pedal stroke sensor when performing the brake operation.

# **B2453 BR STROKE SEN CIRC**

#### < DTC/CIRCUIT DIAGNOSIS >

Brake pedal stroke sensor Terminal		Condition	Resistance (KΩ)	
		Condition	(Approx.)	
2	1	Proke released a depressed	1.0  ightarrow 0.2	-
2	3	$\rightarrow$ depressed $\rightarrow$ depressed $\rightarrow$	$0.2 \rightarrow 1.0$	-

Is the inspection result normal?

YES >> Brake pedal stroke sensor system is normal.

NO >> Replace brake pedal stroke sensor. Refer to <u>SBC-36, "Removal and Installation"</u>.

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#### < DTC/CIRCUIT DIAGNOSIS >

# **B2454 MOTOR PWR SUP CIRC**

# Description

• When control unit activates pre-crush seat belt system, it retracts the shoulder belt with the electric motor and reduces seat belt slack.

• Power supply is supplied constantly from battery power supply.

# DTC Logic

#### DTC DETECTION LOGIC

DTC No.	Self-diagnosis item	DTC Detection Condition	Possible causes
B2454	SEAT BLT PWR DR CIRC	Motor power supply circuit is open or shorted	<ul> <li>Open circuit and short circuit to ground in drive circuit power supply harness</li> <li>Pre-crash seat belt control unit</li> </ul>

#### DTC CONFIRMATION PROCEDURE

# **1.**SELF-DIAGNOSIS WITH PRE-CRASH SEAT BELT CONTROL UNIT

1. Turn ignition switch ON.

2. Check "Self-diagnostic result" with CONSULT-III.

#### Is DTC detected?

YES >> Refer to <u>SBC-18, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

#### Diagnosis Procedure

INFOID:000000004673924

#### **1.**CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Terminal No.	Signal name	Fuse and fusible link No.
2	Battery power supply	G

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

# 2.check pre-crash seat belt motor power supply

- 1. Turn ignition switch OFF.
- 2. Disconnect pre-crash seat belt control unit connector.
- 3. Check voltage between pre-crash seat belt control unit harness connector and ground.

Pre-crash seat	belt control unit		Voltage (V) (Approx.)
Connector	Terminal	Ground	Pottony voltago
M110	M110 2		Dallery Vollage

Is the inspection result normal?

YES >> Replace pre-crash seat belt control unit. Refer to <u>SBC-37. "Removal and Installation"</u>.

NO >> Repair or replace harness between pre-crash seat belt control unit and fusible link.

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# **B2455 PSB C/U INT CIRCUIT**

< DTC/CI	RCUIT DIAGNOSIS >			
B2455	PSB C/U INT CIF	RCUIT		Λ
Descript	tion		INFOID:00000004672971	
<ul> <li>It contro</li> <li>It consis</li> </ul>	ls pre-crash seat belt mo ts of pre-crash seat belt	otor according to input signal. control unit.		В
DTC Lo	gic		INFOID:00000004673925	C
DTC DET	FECTION LOGIC			0
DTC No.	Self-diagnosis item	DTC Detection Condition	Possible causes	D
B2455	C/U internal circuit system	Pre-crash seat belt control unit internal circuit malfunction	Pre-crash seat belt control unit	
DTC CON <b>1.</b> SELF-I	NFIRMATION PROCE DIAGNOSIS WITH PRE-	DURE CRASH SEAT BELT CONTROL UNIT		E
1. Turn i 2. Checl Is DTC de	gnition switch ON. k "Self-diagnostic result" etected?	with CONSULT-III.		F
YES > NO >	<ul> <li>&gt; Refer to <u>SBC-19, "Dia</u></li> <li>&gt; INSPECTION END</li> </ul>	gnosis Procedure".		G
Diagnos	sis Procedure		INF0ID:00000004673926	
1INSPE	ECTION START			SBC
<ol> <li>Check</li> <li>Touch</li> <li>Perform</li> <li>See See See See See See See See See See</li></ol>	k "Self-diagnostic result" n "ERASE". rm DTC Confirmation Pro SBC-19, "DTC Logic".	with CONSULT-III.		I
Is DTC B2 YES >	2455 displayed again? >> Replace pre-crash sea >> GO TO 2	at belt control unit. Refer to <u>SBC-37. "Removal a</u>	nd Installation".	J
2.CHECK	K INTERMITTENT INCI	DENT		K
Refer to G	GI-41, "Intermittent Incide	<u>nt"</u> .		
>	>> INSPECTION END			L
				M
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< DTC/CIRCUIT DIAGNOSIS >

# SEAT BELT BUCKLE SWITCH DRIVER SIDE

#### **DRIVER SIDE** : Description

• Performs the control of tension reducer according to the seat belt buckle switch ON/OFF.

- Detects whether or not the seat belt is fastened when the ignition switch turns ON. If the seat belt is not fastened, illuminates the seat belt warning lamp on the combination meter.
- The seat belt buckle switch is installed in the seat belt buckle.

# DRIVER SIDE : Component Function Check

INFOID:000000004673928

INFOID-000000004673927

# 1.CHECK PRE-CRASH SEAT BELT CONTROL UNIT INPUT SIGNAL

#### With CONSULT-III

When checking "SB SW LH SIG" on DATA MONITOR screen, check that ON/OFF display changes synchronized with the insertion operation to the seat belt buckle.

Monitor item	Condition
	When driver side seat belt is not fastened: OFF
3D 3W EI 13IG	When driver side seat belt is fastened: ON

#### Is the inspection result normal?

YES >> Seat belt buckle switch (driver side) circuit is normal.

NO >> Refer to <u>SBC-20, "DRIVER SIDE : Diagnosis Procedure"</u>.

#### **DRIVER SIDE : Diagnosis Procedure**

INFOID:000000004673929

# **1.**CHECK PRE-CRASH SEAT BELT CONTROL UNIT INPUT SIGNAL

Check that voltage between seat belt buckle switch (driver side) and ground.

Seat belt buckle	(+) Seat belt buckle switch (driver side)		Condition	Voltage (V) (Approx.)
Connector	Terminal			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
<b>P</b> 12	1		When driver side seat belt is not fastened	5
DIJ		Ground	When driver side seat belt is fastened	0

#### Is the inspection result normal?

YES >> Seat belt buckle switch (driver side) circuit is normal.

NO >> GO TO 2.

# **2.**CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect pre-crash seat belt control unit connector and seat belt buckle switch (driver side) connector.
- 3. Check continuity between pre-crash seat belt control unit and seat belt buckle switch (driver side).

Pre-	crash seat	belt control unit	Seat belt buckle switch (driver side)		Continuity
Conne	ctor	Terminal	Connector	Terminal	Continuity
M11	0	10	B13	1	Existed

4. Check continuity between pre-crash seat belt control unit and ground.

	Pre-crash seat	belt control unit		Continuity	
	Connector Terminal		Ground	Continuity	
_	M110	10		Not existed	

Is the inspection result normal?

# SEAT BELT BUCKLE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 3.
- NO >> Repair or replace harness between pre-crash seat belt control unit and seat belt buckle switch A (driver side).

# $\mathbf{3.}$ Check seat belt buckle switch ground circuit

	Shundary between 3		witch (unver side) and ground.	
	Seat belt buckle	switch (driver side)		Continuity
	Connector	Termir	al Ground	
	B13	2		Existed
Is the ins YES NO <b>4.</b> CHEC	<ul> <li>Spection result norm</li> <li>&gt;&gt; GO TO 4.</li> <li>&gt;&gt; Repair or replace</li> <li>CK SEAT BELT BUG</li> </ul>	<u>aal?</u> ce harness betw CKLE SWITCH	een seat belt buckle switch and grou (DRIVER SIDE)	ind.
Check se	eat belt buckle swite	ch (driver side).	Refer to SBC-21, "DRIVER SIDE : C	component Inspection".
Is the ins	spection result norm	al?		<u>inperiorit inopeditori</u> .
YES NO	>> Replace pre-cra >> Replace seat be	ash seat belt cor elt buckle switch	ntrol unit. Refer to <u>SBC-37, "Remova</u> (driver side).	l and Installation".
DRIVE	R SIDE : Comp	onent Inspe	ction	INFOID:00000004673930
1.снес	CK SEAT BELT BU	CKLE SWITCH	(DRIVER SIDE)	
1 Turn	ignition switch OF	=	· · ·	
2. Disc	onnect seat belt bu	ckle switch conr	nector.	
3. Cheo	ck continuity of sea	t belt buckle (dri	ver side).	
	Seat belt buckle switch	(driver side)		
	Terminal	(0	Condition	Continuity
			When driver side seat belt is not fastened	Not existed
	1	2	When driver side seat belt is fastened	Existed
Is the ins	spection result norm	al?		
YES	>> INSPECTION E	ND		
NO	>> Replace seat be	elt buckle switch	(driver side).	
PASSE	NGER SIDE			
PASSE	NGER SIDE :	Description		INFOID:00000004673931
• Dorform	ma the control of to	Naion roducor os	poording to the cost bolt buckle swite	
<ul> <li>Detects</li> </ul>	s whether or not the	e seat belt is fas	stened when the ignition switch turns	S ON. If the seat belt switch is
not fast	tened, illuminates t	ne seat belt war	ning lamp on the combination meter.	
<ul> <li>The sea</li> </ul>	at belt buckle switc	h is installed in t	he seat belt buckle.	
PASSE	NGER SIDE :	Component	Function Check	INFOID:00000004673932
1.снес	CK PRE-CRASH SE	AT BELT CON	FROL UNIT INPUT SIGNAL	
(P) With (	CONSULT-III			
When ch	ecking "SB SW RH	I SIG" on DATA	MONITOR screen, check that ON/C	OFF display changes are syn-
chronized	d with the insertion	operation to the	seat belt buckle.	

 Monitor item
 Condition

 SB SW RH SIG
 When driver side seat belt is not fastened: OFF

 When driver side seat belt is fastened: ON

#### Is the inspection result normal?

YES >> Seat belt buckle switch (passenger side) circuit is normal.

#### SBC-21

# SEAT BELT BUCKLE SWITCH

#### < DTC/CIRCUIT DIAGNOSIS >

#### NO >> Refer to <u>SBC-22, "PASSENGER SIDE : Diagnosis Procedure"</u>.

# PASSENGER SIDE : Diagnosis Procedure

INFOID:000000004673933

#### 1.CHECK PRE-CRASH SEAT BELT CONTROL UNIT INPUT SIGNAL

Check that voltage between seat belt buckle switch (passenger side) and ground.

(+) Seat belt buckle switch (passenger side)		(-)	Condition	Voltage (V) (Approx)
Connector	Terminal			(//pp/0x.)
	1	Ground	When driver side seat belt is not fastened	5
DZ 13	I	Ground	When driver side seat belt is fastened	0

#### Is the inspection result normal?

YES >> Seat belt buckle switch (passenger side) circuit is normal.

NO >> GO TO 2.

# 2. CHECK SEAT BELT BUCKLE (PASSENGER SIDE) SWITCH CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect pre-crash seat belt control unit connector and seat belt buckle switch (passenger side) connector.

#### 3. Check continuity between pre-crash seat belt control unit and seat belt buckle switch (passenger side).

Pre-crash seat	Pre-crash seat belt control unit		Seat belt buckle switch (passenger side)	
Connector	Terminal	Connector Terminal		Continuity
M110	8	B213	1	Existed

4. Check continuity between pre-crash seat belt control unit and ground.

Pre-crash seat belt control unit			Continuity	
Connector	Terminal	Ground	Continuity	
M110	8		Not existed	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between pre-crash seat belt control unit and seat belt buckle switch (passenger side).

#### ${ m 3.}$ CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

Check continuity between seat belt buckle switch (passenger side) and ground.

Seat belt buckle switch (passenger side)			Continuity	
Connector	Terminal	Ground	Continuity	
B213	2		Existed	

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness between seat belt buckle switch and ground.

#### **4.**CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Check seat belt buckle switch (passenger side). Refer to <u>SBC-23, "PASSENGER SIDE : Component Inspec-</u> tion".

#### Is the inspection result normal?

YES >> Replace pre-crash seat belt control unit. Refer to <u>SBC-37, "Removal and Installation"</u>.

NO >> Replace seat belt buckle switch (passenger side).

#### SBC-22

# SEAT BELT BUCKLE SWITCH

#### < DTC/CIRCUIT DIAGNOSIS >

# **PASSENGER SIDE : Component Inspection**

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# 1.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

- 1. Turn ignition switch OFF.
- 2. Disconnect seat belt buckle switch connector.
- 3. Check continuity of seat belt buckle (passenger side).

Seat belt buckle switch (passenger side) Terminal		Condition	Continuity	C
		Condition	Continuity	
1	2	When driver side seat belt is not fastened	Not existed	
	2	When driver side seat belt is fastened	Existed	L

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (passenger side).

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# POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

# POWER SUPPLY AND GROUND CIRCUIT

#### Diagnosis Procedure

INFOID:000000004673939

# **1.**CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Terminal No.	Signal name	Fuse and fusible link No.
13	Battery power supply	1

Is the fuse blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect pre-crash seat belt control unit connectors.

3. Check voltage between harness pre-crash seat belt control unit connector and ground.

Pre-crash seat belt control unit			Voltage (V)	
Connector	Connector Terminal		(Approx.)	
M110	13		Battery voltage	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between pre-crash seat belt control unit harness connector and ground.

Pre-crash seat belt control unit			Continuity	
Connector	Terminal			
M110	5	Ground	Existed	
	26		LAISIEU	

Does continuity exist?

YES >> INSPECTION END

NO >> Repair or replace harness.

#### < ECU DIAGNOSIS INFORMATION >

# ECU DIAGNOSIS INFORMATION PRE-CRASH SEAT BELT CONTROL UNIT

# **Reference Value**

# VALUES ON THE DIAGNOSIS TOOL CONSULT-III MONITOR ITEM

Monitor item	Condition	Value/Status (Approx.)
B PEDAL SIG1 B PEDAL SIG2	Brake released Brake released	(1 V) (4 V)
B PEDAL SIG1 B PEDAL SIG2	Brake released $\rightarrow$ depressed Brake released $\rightarrow$ depressed	$(1V \rightarrow 4 V) (4V \rightarrow 1 V)$
SB SW RH SIG	RH seat belt is not fastened RH seat belt is fastened	OFF ON
SB SW LH SIG	LH seat belt is not fastened LH seat belt is fastened	OFF ON

#### TERMINAL LAYOUT



#### PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Value (*1)	
+	_	Signal name	Input/ Output	Condition	(Approx.)	
1 (G/R)	Ground	RH seat belt motor release signal	Output	_	_	
2 (W)	Ground	Drive circuit power supply (+BAT)	Input	Seat belt motor non-operational	Battery voltage	
3 (G/Y)	Ground	RH seat belt motor forward (retract) sig- nal	Output	_	_	
4 (GR/W)	Ground	LH seat belt motor forward (retract) sig- nal	Output	_	_	
5 (W)	Ground	Drive circuit ground	—	_	0	
6 (LY)	Ground	LH seat belt motor release signal	Output	_	_	
				LH seat belt is not fastened	Ground	
7	Ground	Indicator (seat belt warning lamp)	Output	LH seat belt is fastened	Battery voltage	
(G)			Cuput	LH seat belt is fastened or malfunction of system	Battery voltage $\leftarrow \rightarrow$ Ground	
8	Crown -		lanut	RH seat belt is fastened	Battery voltage	
(LG)	Ground	RH seat belt buckle switch signal Input		RH seat belt is not fastened	Ground	

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# < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (*1)	
+	_	Signal name	Input/ Output	Condition	(Approx.)	
10	Ground	ind I H cost bolt buckle switch signal		LH seat belt is fastened	Battery voltage	
(SB)	Ground	LIT seat beit buckle switch signal	input	LH seat belt is not fastened	Ground	
13	Ground	Control circuit power supply (IGN)	Input	IGN ON	Battery voltage	
(W)	Giouna	Control circuit power supply (IGN)	mput	IGN OFF	Ground	
16	Ground	Proko podol stroko sonsor signali	Input	Brake released $\rightarrow$ depressed	$1 \text{ V} \rightarrow 4 \text{ V}$	
(W)	Ground	Brake pedal stroke sensor signal1		IGN OFF	$1 \text{ V} \rightarrow 4 \text{ V}$	
18	Cround	Proko podol otroko oppor powor ojrovit	Output	IGN ON	$1 \text{ V} \rightarrow 4 \text{ V}$	
(R)	Ground	Brake pedal stroke sensor power circuit		IGN OFF	$1 \text{ V} \rightarrow 4 \text{ V}$	
20	Ground	Brake pedal stroke sensor signal2	Input	Brake released $\rightarrow$ depressed	$1 \text{ V} \rightarrow 4 \text{ V}$	
(G)	Giouna		input	IGN OFF	0V	
21 (B)	Ground	Brake pedal stroke sensor ground circuit	_	_	Ground	
22 (P)	Ground	CAN communication signal (CAN L-line)	Input/ Output	_	_	
24 (L)	Ground	CAN communication signal (CAN H-line)	Input/ Output	_	_	
25	Ground	Shield ground	—	_	Ground	
26 (B)	Ground	Control circuit ground	_	_	Ground	

\*1: Perform the measurement while connecting the control unit and the harness.

# Fail Safe

INFOID:000000004673003

When a malfunction occurs in the following system, the pre-crash seat belt function is controlled according to the malfunctioning parts.

Display contents of CONSULT-III	Fail-safe	Cancellation
B2451: SB MOTOR RH CIRC	Deactivate the RH pre-crash seat belt function	Erase DTC
B2452: SB MOTOR LH CIRC	Deactivate the LH pre-crash seat belt function	Erace DTC
B2453: BR STROK SEN CIRC	Deactivate the interlock function during emergency brake operation	Erace DTC
B2454: MOTOR PWR SUP CIRC	Deactivate the pre-crash seat belt function	Erace DTC

# **DTC** Index

INFOID:000000004673004

DTC	Trouble diagnosis name (CONSULT-III display)	DTC detection condition	Reference
_	—	No malfunction is detected	_
U1000	CAN COMM CIRCUIT	Pre-crash seat belt control unit cannot transmit and receive CAN communication signal for 2 seconds or more	<u>SBC-10</u>
B2451	SB MOTOR RH CIRC	RH seat belt motor circuit is shorted or open	<u>SBC-11</u>
B2452	SB MOTOR LH CIRC	LH seat belt motor circuit is shorted or open	<u>SBC-13</u>
B2453	BR STROK SEN CIRC	Brake pedal stroke sensor circuit is shorted or open	<u>SBC-15</u>
B2454	MOTOR PWR SUP CIRC	Motor power supply circuit is shorted or open	<u>SBC-18</u>
B2455	PSB C/U INT CIRCUIT	Internal breakdown in pre-crash seat belt control unit	<u>SBC-19</u>

# PRE-CRASH SEAT BELT CONTROL UNIT < ECU DIAGNOSIS INFORMATION > Wiring Diagram - SEAT BELT CONTROL SYSTEM -



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#### < ECU DIAGNOSIS INFORMATION >



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#### < ECU DIAGNOSIS INFORMATION >



Revision: 2009 October

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#### < ECU DIAGNOSIS INFORMATION >



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PRE-CRASH SEAT BELT DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS >	
SYMPTOM DIAGNOSIS	0
PRE-CRASH SEAT BELT DOES NOT OPERATE	А
BOTH SIDES	
BOTH SIDES : Diagnosis Procedure	В
1. CHECK POWER SUPPLY AND GROUND CIRCUIT	С
Check power supply and ground circuit. Refer to SBC-24, "Diagnosis Procedure"	
Is the inspection result normal?	D
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	F
Confirm the operation again.	
Is the inspection result normal?	
YES >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u> .	F
DRIVER SIDE	
	G
DRIVER SIDE : Diagnosis Procedure	
1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)	SBC
Check seat belt buckle switch (driver side). Refer to <u>SBC-20, "DRIVER SIDE : Component Function Check"</u>	
Is the inspection result normal?	I
NO >> Repair or replace the malfunctioning parts.	1
2.CONFIRM THE OPERATION	
Confirm the operation again.	J
Is the inspection result normal?	
YES >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u> .	Κ
PASSENGER SIDE	
PASSENGER SIDE : Diagnosis Procedure	L
1. CHECK POWER SUPPLY AND GROUND CIRCUIT	ЪЛ
Check power supply and ground circuit. Refer to SBC-24, "Diagnosis Procedure"	IVI
Is the inspection result normal?	
YES >> GO TO 2.	Ν
2. CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)	
Check seat belt buckle switch (passenger side) Refer to SBC-21 "PASSENGER SIDE : Component Function	0
<u>Check"</u>	
Is the inspection result normal?	P
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
<b>3.</b> CONFIRM THE OPERATION	
Confirm the operation again.	
Is the inspection result normal?	

YES >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u>.

# PRE-CRASH SEAT BELT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

NO >> GO TO 1.

# < PRECAUTION > PRECAUTION PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

#### WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Gervice Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

#### PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

#### WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

#### Precaution for Seat Belt Service

#### **CAUTION:**

- Before removing the seat belt pre-tensioner assembly, turn the ignition switch off, disconnect the both battery cables and wait at least 3 minutes.
- Do not use electrical test equipment for seat belt pre-tensioner connector.
- After replacing or reinstalling seat belt pre-tensioner assembly, or reconnecting front seat belt pretensioner connector, check the system function. Refer to <u>SRC-14, "Diagnosis Description"</u>.
- Do not use disassemble buckle or seat belt assembly.
- Replace anchor bolts if they are deformed or worn out.
- Never oil tongue and buckle.
- If any component of seat belt assembly is questionable, do not repair. Replace the whole seat belt assembly.
- If webbing is cut, frayed, or damaged, replace seat belt assembly.
- When replacing seat belt assembly, use a genuine NISSAN seat belt assembly.

#### AFTER A COLLISION

#### WARNING:

Inspect all seat belt assemblies including retractors and attaching hardware after any collision. NISSAN recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Failure to do so could result in serious personal injury in an accident. Seat belt assemblies not in use during a collision should also be replaced if either damage or improper operation is noted. Seat belt pre-tensioner should be replaced even if the seat belts are not in use during a frontal collision in which the air bags are deployed.

Replace any seat belt assembly (including anchor bolts) if:

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# PRECAUTIONS

#### < PRECAUTION >

- The seat belt was in use at the time of a collision (except for minor collisions and the belts, retractors and buckles show no damage and continue to operate properly).
- The seat belt was damaged in an accident. (i.e. torn webbing, bent retractor or guide).
- The seat belt attaching point was damaged in an accident. Inspect the seat belt attaching area for damage or distortion and repair as necessary before installing a new seat belt assembly.
- Anchor bolts are deformed or worn out.
- The seat belt pre-tensioner should be replaced even if the seat belts are not in use during the collision in which the air bags are deployed.

#### Precaution for Battery Service

INFOID:000000004672991

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

#### < PERIODIC MAINTENANCE >

# PERIODIC MAINTENANCE PRE-INSPECTION FOR DIAGNOSTIC

# Description

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#### WARNING:

- The following tests should be performed in a safe, open place that is free of traffic and obstacles.
- The tests should be performed on a dry, paved road. Never attempt to perform the tests on a wet or unpaved road, open road, or highway. (This may cause an accident or personal injury.)
- Driver and passenger should assume seat belt may operate and prepare themselves accordingly.
- 1. Fasten driver and passenger seat belts.
- 2. Drive at approximately 25 km/h (16 MPH).
- 3. Notify passenger of a sudden stop. Driver and passenger prepare themselves for the possibility of system not operating. Then, driver fully depresses the brake pedal to stop suddenly.
- 4. Check that the shoulder of the seat belt is pulled while braking.

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# **BRAKE PEDAL STROKE SENSOR**

#### < PERIODIC MAINTENANCE >

# BRAKE PEDAL STROKE SENSOR

# **Exploded View**

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- 1. Brake pedal stroke sensor
- A. Brake pedal stroke sensor connector

# Removal and Installation

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#### REMOVAL

- 1. Remove the driver instrument panel (lower). Refer to IP-12, "Removal and Installation".
- 2. Disconnect the brake pedal stroke sensor connector (A).
- 3. Remove the screws.
- 4. Remove the brake pedal stroke sensor (1).

#### INSTALLATION

Install in the reverse order of removal.

#### < PERIODIC MAINTENANCE >

# PRE-CRASH SEAT BELT CONTROL UNIT

# Exploded View

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1. Pre-crash seat belt control unit A. Pre-crash seat belt control unit con- nector		_
emoval and Installation	INFOID:00000004672995	F
MOVAL		G
Remove the glove box. Refer to <u>IP-12, "Removal and Installation"</u> .	-	
Remove the screws.		SB(
Remove the pre-crash seat belt control unit (1).		
STALLATION tall in the reverse order of removal.		I
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