SECTION SRS В SUPPLEMENTAL RESTRAINT SYSTEM (SRS) С

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PRECAUTIONS

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Precautions 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 and SB section 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 section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precautions for SRS "AIR BAG" and "SEAT BELT PRE-TENSIONER" Service

- Do not use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.

For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pre-tensioner to deploy. Therefore, do not work on any SRS connectors or wires until at least 3 minutes have passed.

- Diagnosis sensor unit must always be installed with their arrow marks "⇐" pointing towards the front of the vehicle for proper operation. Also check diagnosis sensor unit for cracks, deformities or rust before installation and replace as required.
- The spiral cable must be aligned with the neutral position since its rotations are limited. Do not turn steering wheel and column after removal of steering gear.
- Handle air bag module carefully. Always place driver and front passenger air bag modules with the pad side facing upward and seat mounted front side air bag module standing with the stud bolt side facing down.
- Conduct self-diagnosis to check entire SRS for proper function after replacing any components.
- After air bag inflates, the front instrument panel assembly should be replaced if damaged.
- Always replace instrument panel pad following front passenger air bag deployment.

Occupant Classification System Precaution

 Replace occupant classification system control unit and passenger front seat cushion as an assembly. Refer to <u>SE-90, "FRONT SEAT"</u>.

Wiring Diagrams and Trouble Diagnosis

When you read wiring diagrams, refer to the following:

- <u>GI-14, "How to Read Wiring Diagrams"</u> in GI section
- PG-3, "POWER SUPPLY ROUTING CIRCUIT" in PG section

When you perform trouble diagnosis, refer to the following:

- GI-10, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES" in GI section
- <u>GI-26, "How to Perform Efficient Diagnosis for an Electrical Incident"</u> in GI section

Check for any service bulletins before servicing the vehicle.

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PREPARATION

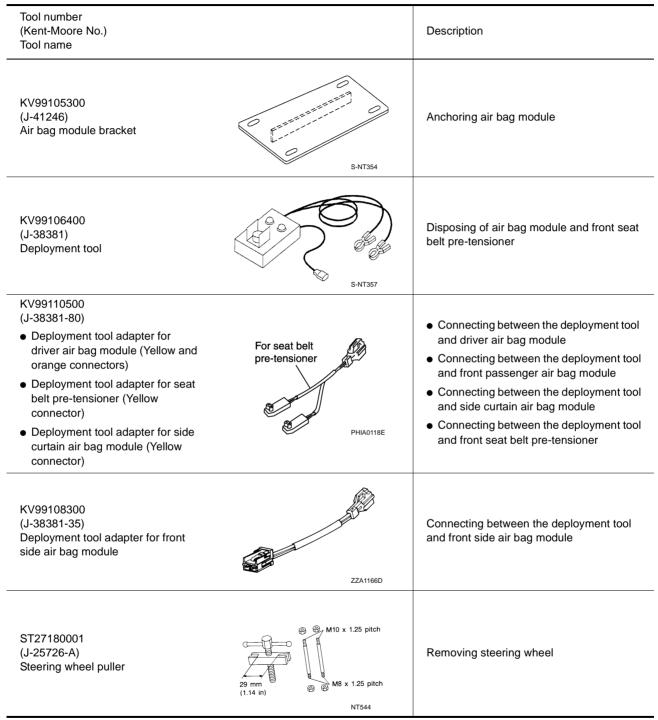
PREPARATION

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Special Service Tools

AHS0000B

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.



PREPARATION

Tool name		Description	
Tamper resistant TORX bit		Size: T30	
	S-NT757		

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SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)



SRS Configuration AHS0000C Driver air bag Front passenger Crash zone module air bag module sensor Seat belt buckle Seat belt buckle switch LH switch RH Front RH seat belt Front LH seat belt Diagnosis sensor unit pre-tensioner pre-tensioner Auxiliary power source (condenser) • Drive circuit LH side air bag • CPU RH side air bag (satellite) sensor (satellite) sensor · G sensor (G sensor for front (for driver and front passenger air (G sensor for front LH side air bag) bags, front seat belt pre-tensioner) RH side air bag) · Safing sensor (for driver and front passenger air bags, front seat belt pre-tensioner) Front LH side Front RH side · Safing sensor air bag module (for front side air bag and side air bag module curtain air bag module) RH side curtain LH side curtain air bag module air bag module PHIA0698E

The air bag deploys if the diagnosis sensor unit activates while the ignition switch is in the ON or START position.

The collision modes for which supplemental restraint systems are activated are different among the SRS systems. For example, the driver air bag module and front passenger air bag module are activated in a frontal collision but not in a side collision.

SRS configurations which are activated for some collision modes are as follows;

SRS configuration	Frontal collision	Left side collision	Right side collision
Driver air bag module	×	_	—
Front passenger air bag module	×	—	_
Front LH seat belt pre-tensioner	×	—	—
Front RH seat belt pre-tensioner	×	—	_
Front LH side air bag module	—	×	_
Front RH side air bag module	—	—	×
LH side curtain air bag module	—	×	—
RH side curtain air bag module	_	_	×

Front Seat Belt Pre-Tensioner with Load Limiter

The seat belt pre-tensioner system with load limiter is installed for both the driver's seat and the front passenger's seat. It operates simultaneously with the SRS air bag system in the event of a frontal collision with an impact exceeding a specified level.

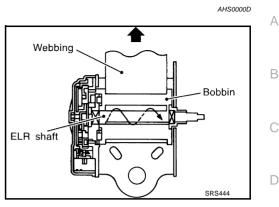
When the frontal collision with an impact exceeding a specified level occurs, seat belt slack resulting from clothing or other factors is immediately taken up by the pre-tensioner. Vehicle passengers are securely restrained.

When passengers in a vehicle are thrown forward in a collision and the restraining force of the seat belt exceeds a specified level, the load limiter permits the specified extension of the seat belt by the twisting of the ELR shaft, and a relaxation of the chest-area seat belt web tension while maintaining force.

Front Side Air Bag

Front side air bag is built-in type.

The front seatback with built-in type side air bag have the labels as shown.



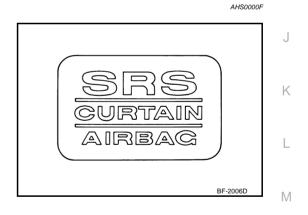
Front seatback with front side air bag

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Side Curtain Air Bag

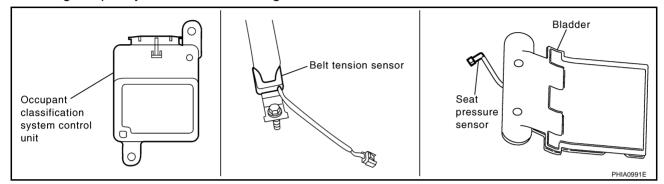
The side curtain air bags have the labels as shown.



Occupant Classification System

AHS000RW

The occupant classification system identifies different size occupants, out of position occupants, and detects if child seat is present in the front passenger seat. The occupant classification system receives inputs from the occupant classification sensor (located inside the passenger seat cushion assembly) and belt tension sensor (part of the passenger front seat belt assembly and located at the belt anchor location). Depending on classification of passenger, the occupant classification system sends a signal to the diagnosis sensor unit. The diagnosis sensor unit uses this signal to determine full, partial, or non deployment of passenger front air bag in the event of a collision. Depending on the signal received, the diagnosis sensor unit can disable the passenger front air bag completely. If this occurs the diagnosis sensor unit will turn on the PASS AIR BAG OFF indicator.



TROUBLE DIAGNOSIS

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SRS

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Trouble Diagnosis Introduction

CAUTION:

- Do not use electrical test equipment on any circuit related to the SRS unless instructed in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.
- Do not repair, splice or modify the SRS wiring harness. If the harness is damaged, replace it with a new one.
- Keep ground portion clean.

DIAGNOSIS FUNCTION

The SRS self-diagnosis results can be read by using "AIR BAG" warning lamp and/or CONSULT-II.

The User mode is exclusively prepared for the customer (driver). This mode warns the driver of a system malfunction through the operation of the "AIR BAG" warning lamp.

The Diagnosis mode allows the technician to locate and inspect the malfunctioning part.

The mode applications for the "AIR BAG" warning lamp and CONSULT-II are as follows:

	User mode	Diagnosis mode	Display type	F
"AIR BAG" warning lamp	Х	Х	ON-OFF operation	-
CONSULT-II	—	Х	Monitoring	

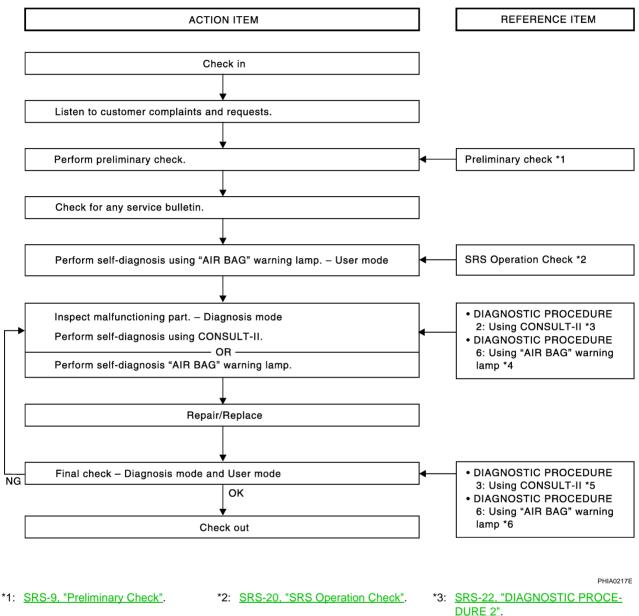
HOW TO PERFORM TROUBLE DIAGNOSIS FOR QUICK AND ACCURATE REPAIR

A good understanding of the malfunction conditions can make troubleshooting faster and more accurate. In general, each customer feels differently about a malfunction. It is important to fully understand the symptoms or conditions for a customer complaint.

Information from Customer

WHAT Vehicle model WHEN Date, Frequencies WHERE Road conditions HOW Operating conditions, Symptoms	
Preliminary Check	J
Make sure the following parts are in good order.	
Battery (Refer to <u>SC-4, "How to Handle Battery"</u> .)	K
 Fuse (Refer to <u>SRS-13, "Wiring Diagram — SRS —</u>".) 	
System component-to-harness connections	L

WORK FLOW



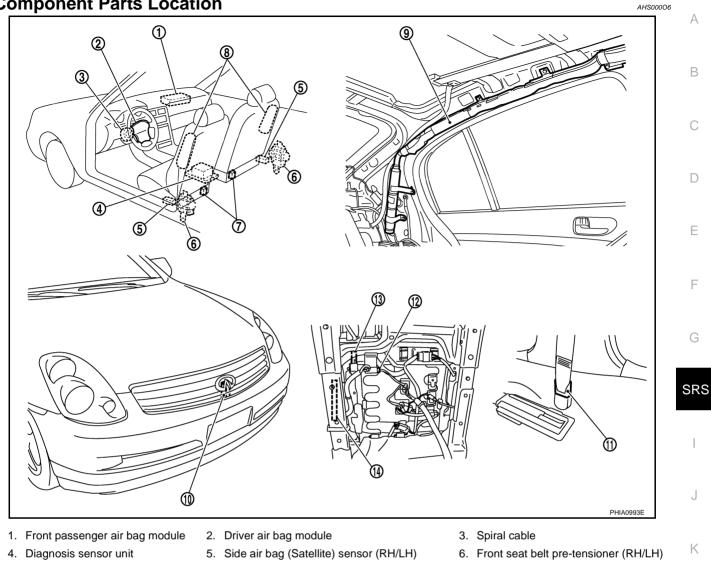
*4: SRS-35, "DIAGNOSTIC PROCE-DURE 6".

*5: SRS-27, "DIAGNOSTIC PROCE-DURE 3".

DURE 2".

*6: SRS-35, "DIAGNOSTIC PROCE-<u>DURE 6"</u>.

Component Parts Location

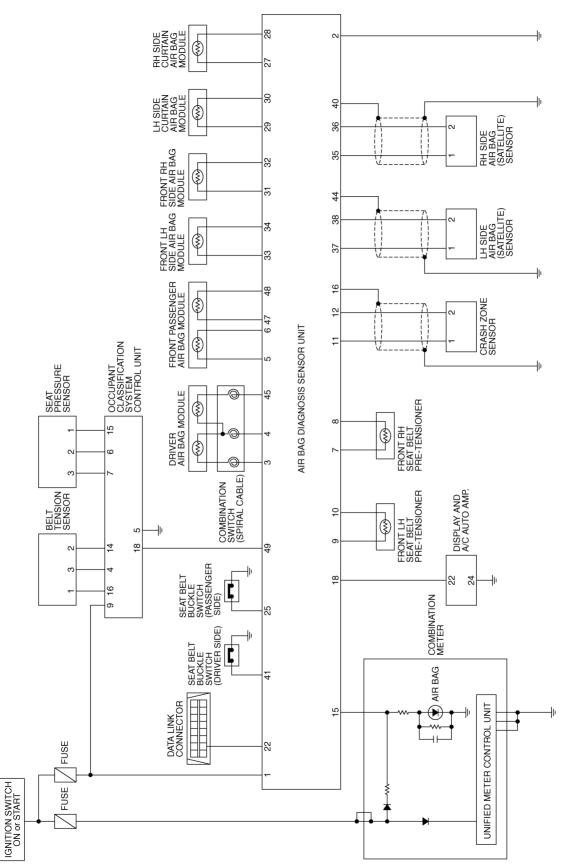


- 7. Seat belt buckle switch (RH/LH)
- 10. Crash zone sensor
- 13. Seat pressure sensor *
- 8. Front side air bag module
- 11. Belt tension sensor
- 14. Occupant classification system control unit *
- 9. Side curtain air bag module
- 12. Belt tension sensor connector *
- L

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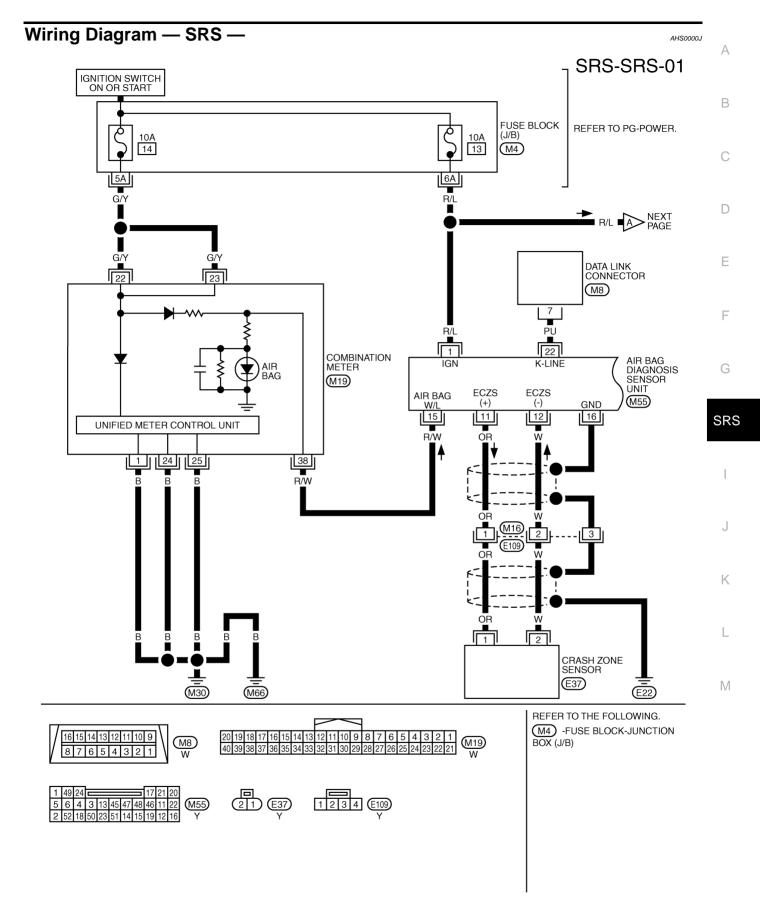
*: 12, 13, 14 \rightarrow The bottom of front passenger seat

Schematic

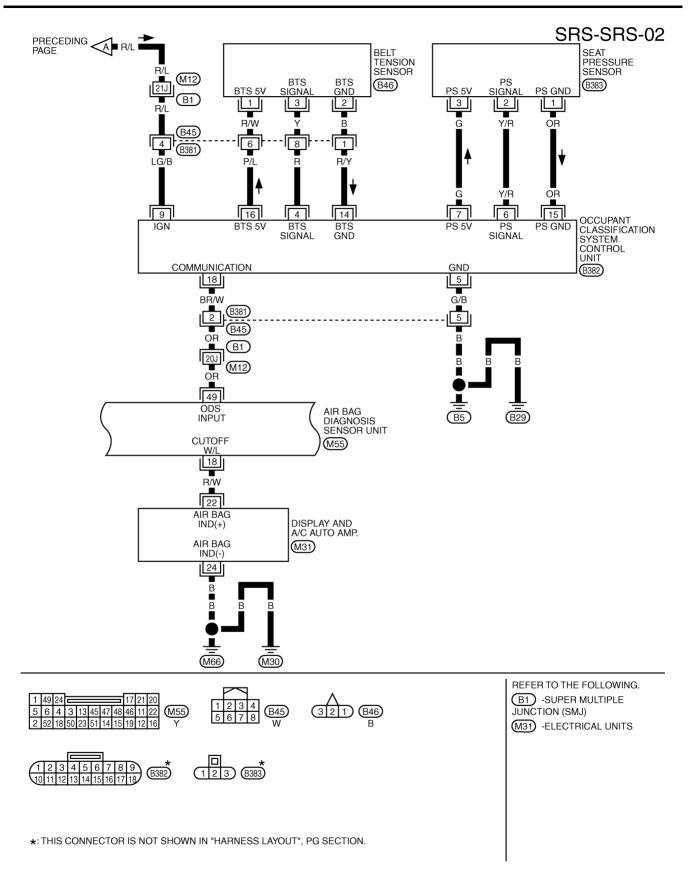


THWM0101E

AHS0000I



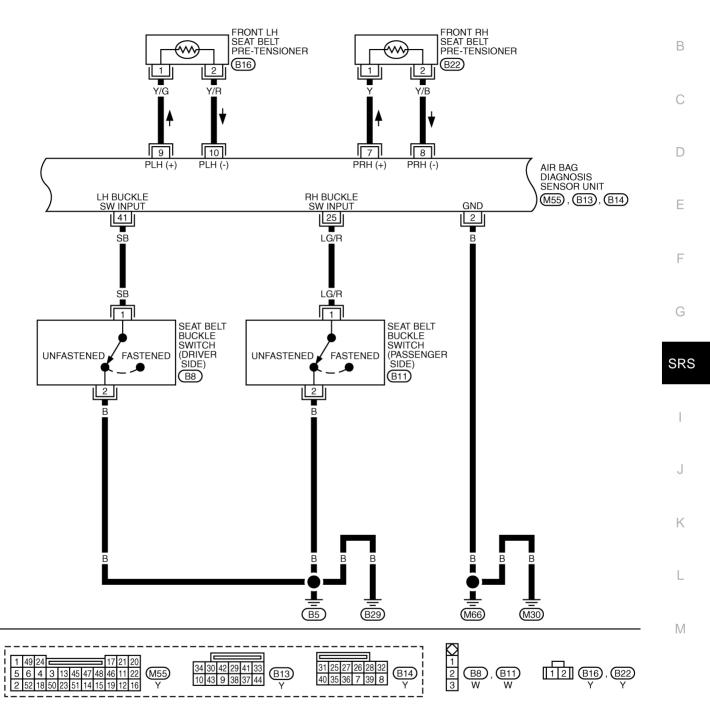
THWM0102E



THWM0103E

SRS-SRS-03

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THWM0104E

FRONT PASSENGER AIR BAG MODULE DRIVER AIR BAG MODULE ∞ ~~~~ 3 M65 4 2 1 10 ---- 11 M201 COMBINATION SWITCH (SPIRAL CABLE) \bigcirc \bigcirc \bigcirc (M24) 28 23 30 ¥ 48 4 45 5 6 47 DR1 (+) DR1 (-) DR2 (+) AS1 (+) AS1 (-) AS2 (+) AS2 (-) AIR BAG DIAGNOSIS SENSOR UNIT DR2 (-) (M55) 1 49 24 1312 (M202) 1110 M201 (1234) M65 (M24) Y (M55) Y 5 13 45 47 48 6 4 3 46 11 22 OR v

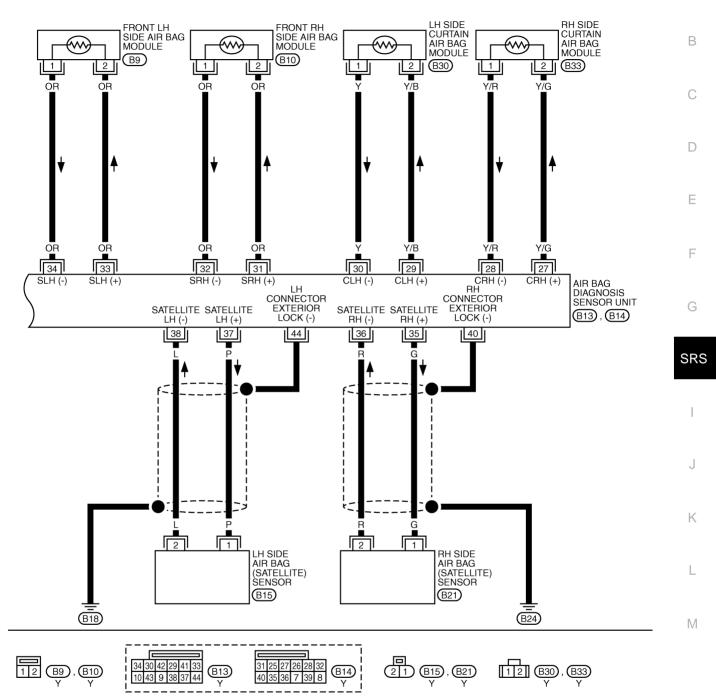
SRS-SRS-04

*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

THWM0105E

SRS-SRS-05

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THWM0106E

CONSULT-II Function DIAGNOSIS MODE FOR CONSULT-II

- "SELF-DIAG [CURRENT]"
 A current self-diagnosis results (also indicated by the number of warning lamp flashes in the Diagnosis mode) is displayed on the CONSULT-II screen in real time. This refers to a malfunctioning part requiring repairs.
- "SELF-DIAG [PAST]" Diagnosis results previously stored in the memory are displayed on the CONSULT-II screen. The stored results are not erased until memory erasing is executed.
- "TROUBLE DIAG RECORD" With TROUBLE DIAG RECORD, diagnosis results previously erased by a reset operation can be displayed on the CONSULT-II screen.
- "ECU DISCRIMINATED NO."

The diagnosis sensor unit for each vehicle model is assigned with its own, individual classification number. This number will be displayed on the CONSULT-II screen, as shown. When replacing the diagnosis sensor unit, refer to the part number for the compatibility. After installation, replacement with a correct unit can be checked by confirming this classification number on the CONSULT-II screen.

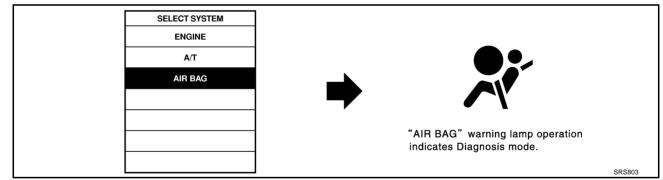
After repair, make sure the discriminated number of diagnosis sensor unit installed to vehicle are same. Refer to <u>SRS-54.</u> <u>"ECU DISCRIMINATED NO."</u>.

Example		
	ECU DISCRIMINATED NO.	
	ECU No.	
	XXXXX	
~	$h \rightarrow h \rightarrow$	
		PHIA0218E

HOW TO CHANGE SELF-DIAGNOSIS MODE WITH CONSULT-II

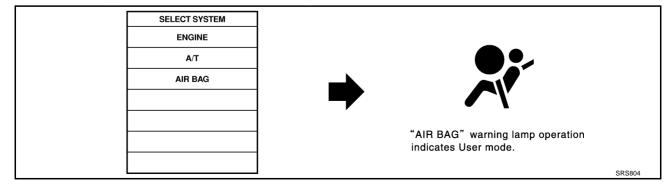
From User Mode to Diagnosis Mode

After selecting "AIR BAG" on the "SELECT SYSTEM" screen, User mode automatically changes to Diagnosis mode.



From Diagnosis Mode to User Mode

To return to User mode from Diagnosis mode, touch "BACK" key of CONSULT-II until "SELECT SYSTEM" appears, then diagnosis mode automatically changes to User mode.



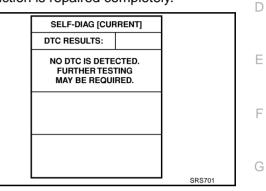
HOW TO ERASE SELF-DIAGNOSTIC RESULTS

- "SELF-DIAG [CURRENT]" A current self-diagnosis result is displayed on the CONSULT-II screen in real time. After the malfunction is repaired completely, no malfunction is detected on "SELF-DIAG [CURRENT]".
- "SELF-DIAG [PAST]" Return to the "SELF-DIAG [CURRENT]" CONSULT-II screen by touching "BACK" key of CONSULT-II and select "SELF-DIAG [CURRENT]" in SELECT DIAG MODE. Touch "ERASE" in "SELF-DIAG [CURRENT]" mode.

NOTE:

If the memory of the malfunction in "SELF-DIAG [PAST]" is not erased, the User mode shows the system malfunction by the operation of the warning lamp even if the malfunction is repaired completely.

 "TROUBLE DIAG RECORD" The memory of "TROUBLE DIAG RECORD" cannot be erased.



Self-Diagnosis Function (Without CONSULT-II)

- The reading of these results is accomplished "User mode" and "Diagnosis mode".
- After a malfunction is repaired, turn ignition switch ON. Diagnosis mode returns to the User mode. At that time, the self-diagnosis result is cleared.

HOW TO CHANGE SELF-DIAGNOSIS MODE WITHOUT CONSULT-II

	 3. After ignition switch is turned OFF, wait for more than 3 seconds. 4. Repeat steps 1 to 3 twice. (Perform 3 times in total.) 5. Turn ignition switch ON. (Self-diagnostic mode turns to Diagnosis mode.) 	
User mode		Diagnosis mode
lgnition switch OFF→ON	 Turn ignition switch from OFF to ON. Air bag warning lamp is on for 7 seconds and turns off, then turn ignition switch OFF within 1 second after the lamp turns off. After ignition switch is turned OFF, wait for more than 3 seconds. Repeat steps 1 to 3 twice. (Perform 3 times in total.) Turn ignition switch ON. (Self-diagnostic mode turns to User mode.) 	Ignition switch OFF→ON

HOW TO ERASE SELF-DIAGNOSTIC RESULTS

After a malfunction is repaired, turn the ignition switch OFF for at least one second, then back ON. Diagnosis mode returns to the User mode. At that time, the self-diagnosis result is cleared.

AHS0000L SRS

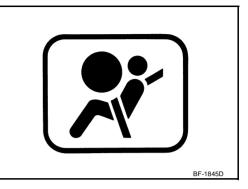
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SRS Operation Check DIAGNOSTIC PROCEDURE 1

Checking Air Bag Operation by Using "AIR BAG" Warning Lamp — User Mode

- 1. Turn the ignition switch from OFF to ON, and make sure the air bag warning lamp blinks.
- 2. Compare the SRS air bag warning lamp blinking pattern with the examples.



Warning lamp examples

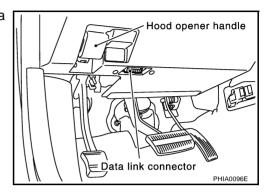
AIR BAG" warning lamp operation — User mode -	SRS condition	Reference item
IGN ON DN DFF 7 sec. SHIA0011E	 No malfunction is detected. No further action is necessary. 	
OFF 7 sec. 0.5 sec. SHIA0012E	 The system is malfunctioning and needs to be repaired as indicated. 	Go to <u>SRS-22, "DIAGNOSTIC</u> <u>PROCEDURE 2"</u> or <u>SRS-29,</u> "DIAGNOSTIC PROCEDURE 5".
	Air bag is deployed.Seat belt pre-tensioner is deployed.	Go to <u>SRS-63, "COLLISION DIAG-</u> <u>NOSIS"</u> .
ON OFF SHIA0013E	 Diagnosis sensor unit is malfunctioning. Air bag power supply circuit is malfunctioning. SRS air bag warning lamp circuit is malfunctioning. 	Go to <u>SRS-40, "Trouble Diagnosis:</u> "AIR BAG" Warning Lamp Does Not Turn Off" .
IGN ON ON OFF	 Diagnosis sensor unit is malfunction- ing. Air bag warning lamp circuit is mal- functioning. 	Go to <u>SRS-41, "Trouble Diagnosis:</u> <u>"AIR BAG" Warning Lamp Does Not</u> <u>Turn On"</u> .
SHIA0014E		

Trouble Diagnosis with CONSULT-II DIAGNOSTIC PROCEDURE 2

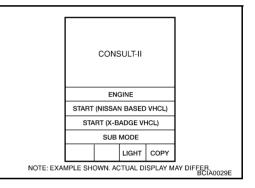
CAUTION:

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carry out CAN communication.

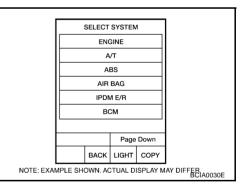
- 1. Turn ignition switch OFF.
- 2. Connect CONSULT-II and CONSULT-II CONVERTER to data link connector.



- 3. Turn ignition switch ON.
- 4. Touch "START (NISSAN BASED VHCL)".



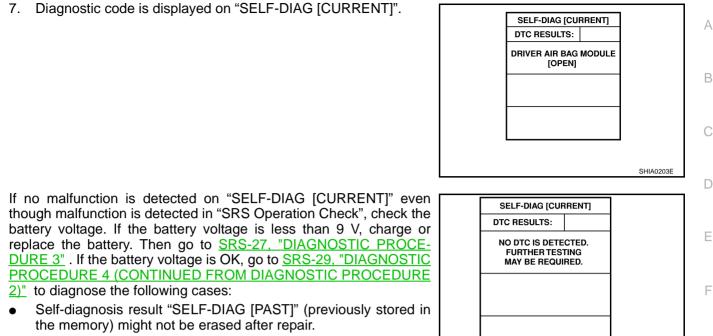
5. Touch "AIR BAG". If "AIR BAG" is not indicated, refer to <u>GI-38, "CONSULT-II Data</u> <u>Link Connector (DLC) Circuit"</u>.



SELECT DIAG MODE	
SELF-DIAG [CURRENT]	
SELF-DIAG [PAST]	
TROUBLE DIAG RECORD	
ECU DISCRIMINATED NO.	
	SRS697

6. Touch "SELF-DIAG [CURRENT]".

AHS000DP



• The SRS system malfunctions intermittently.

CONSULT-II Diagnostic Code Chart ("SELF-DIAG [CURRENT]")

Diagnostic item		Explanation	Repair order "Recheck SRS at each replacement"
NO DTC IS DETECTED.	When malfunction is indicated by the "AIR BAG" warning lamp in		 Go to <u>SRS-27</u>, "<u>DIAGNOSTIC PRO-</u> <u>CEDURE 3</u>" after charging the bat- tery.
	User mode.	 Self-diagnosis result "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased after repair. Intermittent malfunction has been detected in the past. 	 Go to <u>SRS-29</u>, "DIAGNOSTIC PRO- <u>CEDURE 4</u> (CONTINUED FROM <u>DIAGNOSTIC PROCEDURE 2)</u>". Go to <u>SRS-29</u>, "DIAGNOSTIC PRO- <u>CEDURE 5</u>".
	 No malfunction is determined 	ected.	_
DRIVER AIRBAG MODULE [OPEN]	• Driver air bag module circuit is open (including the spiral cable).		1. Visually check the wiring harness connection.
DRIVER AIRBAG MODULE [VB-SHORT]	• Driver air bag module circuit is shorted to a power supply circuit (including the spiral cable).		 2. Replace the harness if it has visible damage. 3. Replace the driver air bag module. (Before disposal, it must be
DRIVER AIRBAG MODULE [GND-SHORT]	• Driver air bag module circuit is shorted to ground (including the spiral cable).		deployed.) 4. Replace the spiral cable.
DRIVER AIRBAG MODULE [SHORT]	• Driver air bag module circuit is shorted between lines.		 5. Replace the diagnosis sensor unit. 6. Replace the related harness.
ASSIST A/B MODULE [OPEN]	• Front passenger air bag module circuit is open.		1. Visually check the wiring harness connection.
ASSIST A/B MODULE [VB-SHORT]	 Front passenger air bag module circuit is shorted to a power supply circuit. 		2. Replace the harness if it has visible damage.
ASSIST A/B MODULE [GND-SHORT]	• Front passenger air bag module circuit is shorted to ground.		3. Replace the front passenger air bag module. (Before disposal, it must be
ASSIST A/B MODULE [SHORT]	Front passenger air ba	ag module circuit is shorted between lines.	deployed.)4. Replace the diagnosis sensor unit.5. Replace the related harness.

SRS701

SBS

Diagnostic item	Explanation	Repair order "Recheck SRS at each replacement"
CRASH ZONE SEN [UNIT FAIL]	Crash zone sensor	1. Visually check the wiring harness connection.
CRASH ZONE SEN [COMM FAIL]		2. Replace the harness if it has visible damage.
		3. Replace the crash zone sensor.
		4. Replace the diagnosis sensor unit.
		5. Replace the related harness.
SIDE MODULE LH [OPEN]	• Front LH side air bag module circuit is open.	1. Visually check the wiring harness connection.
SIDE MODULE LH [VB-SHORT]	• Front LH side air bag module circuit is shorted to a power supply circuit.	2. Replace the harness if it has visible damage.
SIDE MODULE LH [GND-SHORT]	• Front LH side air bag module circuit is shorted to ground.	3. Replace the front LH setback assembly (front LH side air bag
SIDE MODULE LH [SHORT]	• Front LH side air bag module circuit is shorted between lines.	module). (Before disposal, it must be deployed.)
		4. Replace the diagnosis sensor unit.
		5. Replace the related harness.
SIDE MODULE RH [OPEN]	• Front RH side air bag module circuit is open.	1. Visually check the wiring harness connection.
SIDE MODULE RH [VB-SHORT]	• Front RH side air bag module circuit is shorted to a power supply circuit.	2. Replace the harness if it has visible damage.
SIDE MODULE RH [GND-SHORT]	• Front RH side air bag module circuit is shorted to ground.	3. Replace the front RH setback assembly (front RH side air bag
SIDE MODULE RH [SHORT]	• Front RH side air bag module circuit is shorted between lines.	- module). (Before disposal, it must be deployed.)
		4. Replace the diagnosis sensor unit.
		5. Replace the related harness.
SATELLITE SENS LH [UNIT FAIL]	LH side air bag (Satellite) sensor	1. Visually check the wiring harness connection.
SATELLITE SENS LH [COMM FAIL]		2. Replace the harness if it has visible damage.
		3. Replace the LH side air bag (Satel- lite) sensor.
		4. Replace the diagnosis sensor unit.
		5. Replace the related harness.
SATELLITE SENS RH [UNIT FAIL]	RH side air bag (Satellite) sensor	1. Visually check the wiring harness connection.
SATELLITE SENS RH [COMM FAIL]		2. Replace the harness if it has visible damage.
		3. Replace the RH side air bag (Satel- lite) sensor.
		4. Replace the diagnosis sensor unit.
		5. Replace the related harness.

Diagnostic item	Explanation	Repair order "Recheck SRS at each replacement"	ļ
PRE-TEN FRONT LH [OPEN]	• Front LH pre-tensioner circuit is open.	1. Visually check the wiring harness connections.	
PRE-TEN FRONT LH [VB-SHORT]	• Front LH pre-tensioner circuit is shorted to a power supply circuit.	2. Replace the harness if it has visible damage.	E
PRE-TEN FRONT LH [GND-SHORT]	• Front LH pre-tensioner circuit is shorted to ground.	3. Replace the front LH seat belt. (Before disposal, it must be acti- vated.)	(
PRE-TEN FRONT LH	 Front LH pre-tensioner circuit is shorted between lines. 	4. Replace the diagnosis sensor unit.	
[SHORT]		5. Replace the related harness.	
PRE-TEN FRONT RH	• Front RH pre-tensioner circuit is shorted to a power supply cir-	1. Visually check the wiring harness	
[OPEN]	cuit.	connections.	
PRE-TEN FRONT RH [VB-SHORT]	 Front RH pre-tensioner circuit is shorted to a power supply cir- cuit. 	2. Replace the harness if it has visible damage.	E
PRE-TEN FRONT RH [GND-SHORT]	• Front RH pre-tensioner circuit is shorted to ground.	3. Replace the front RH seat belt. (Before disposal, it must be acti- vated.)	F
PRE-TEN FRONT RH [SHORT]	• Front RH pre-tensioner circuit is shorted between lines.	4. Replace the diagnosis sensor unit.	
		5. Replace the related harness.	
CURTAIN MODULE LH [OPEN]	• LH side curtain air bag module circuit is open.	1. Visually check the wiring harness connection.	(
CURTAIN MODULE LH [VB-SHORT]	• LH side curtain air bag module circuit is shorted to some power supply circuits.	2. Replace the harness if it has visible damage.	S
CURTAIN MODULE LH [GND-SHORT]	• LH side curtain air bag module circuit is shorted to ground.	3. Replace the LH side curtain air bag module.	
CURTAIN MODULE LH [SHORT]	• LH side curtain air bag module circuit is shorted between lines.	(Before disposal, it must be deployed.)	
[]		4. Replace the diagnosis sensor unit.	
		5. Replace the related harness.	,
CURTAIN MODULE RH [OPEN]	 RH side curtain air bag module circuit is open. 	1. Visually check the wiring harness connection.	
CURTAIN MODULE RH [VB-SHORT]	• RH side curtain air bag module circuit is shorted to a power supply circuit.	2. Replace the harness if it has visible damage.	
CURTAIN MODULE RH [GND-SHORT]	• RH side curtain air bag module circuit is shorted to ground.	3. Replace the RH side curtain air bag module. (Before disposal, it must be	
CURTAIN MODULE RH	• RH side curtain air bag module circuit is shorted between lines.	deployed.)	
[SHORT]		4. Replace the diagnosis sensor unit.	
		5. Replace the related harness.	
CONTROL UNIT	• Diagnosis sensor unit is malfunctioning.	1. Visually check the wiring harness connection.	
		2. Replace the diagnosis sensor unit.	
OCCUPANT SENS C/U [UNIT FAIL]	• Occupant classification system control unit is malfunctioning.	1. Replace front passenger seat cush- ion/occupant classification system control unit assembly.	
OCCUPANT SENS C/U [COMM FAIL]	 Communication between the occupant classification system control unit and air bag diagnosis sensor unit is interrupted, or 	1. Visually check the wiring harness connection.	
-	occupant classification system control unit is malfunctioning.	2. Replace the harness if it has visible damage.	
		 Replace front passenger seat cush- ion/occupant classification system control unit assembly. 	
		4. Replace the diagnosis sensor unit.	
		5. Replace the related harness.	

Diagnostic item	Explanation	Repair order "Recheck SRS at each replacement"
OCCUPANT SENS [UNIT FAIL]	 Occupant classification sensor is malfunctioning. 	1. Replace front passenger seat cush- ion/occupant classification system control unit assembly.
BELT TENSION SENS [UNIT FAIL]	Belt tension sensor circuit between belt tension sensor and occupant classification system control unit, or diagnosis sensor	1. Visually check the wiring harness connection.
	unit is malfunctioning.	2. Replace the harness if it has visible damage.
		3. Replace front seat belt (passenger side) assembly.
		4. Replace front passenger seat cush- ion/occupant classification system control unit assembly.
PASS A/B INDCTR CKT	• Front passenger air bag off indicator or related circuit is mal- functioning.	1. Visually check the wiring harness connection.
		2. Replace the harness if it has visible damage.
		 Replace front passenger air bag off indicator (display and A/C auto amp.).
		4. Replace the diagnosis sensor unit.
		5. Replace the related harness.

NOTE:

• Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using air bag warning lamp or CONSULT-II each time repair is finished. If malfunction is still observed, proceed to the next step. When malfunction is eliminated, further repair work is not required.

DIAGNOSTIC PROCEDURE 3

Turn ignition switch ON.

Final inspection after repairing SRS by using CONSULT-II — Diagnosis mode

CAUTION:

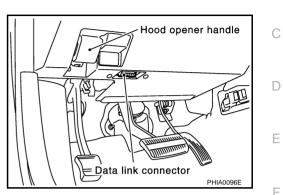
3. 4.

5.

6.

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carry out CAN communication.

- 1. After repairing SRS, connect both battery cables.
- 2. Connect CONSULT-II and CONSULT-II CONVERTER to data link connector.



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В

Touch "START (NISSAN BASED VHCL)". CONSULT-II SRS ENGINE START (NISSAN BASED VHCL) START (X-BADGE VHCL) SUB MODE LIGHT COPY NOTE: EXAMPLE SHOWN. ACTUAL DISPLAY MAY DIFFER Touch "AIR BAG". If "AIR BAG" is not indicated, refer to GI-38, "CONSULT-II Data SELECT SYSTEM Link Connector (DLC) Circuit" . ENGINE K A/T ABS AIR BAG IPDM E/R всм Page Down BACK LIGHT COPY Μ NOTE: EXAMPLE SHOWN. ACTUAL DISPLAY MAY DIFFER Touch "SELF-DIAG [CURRENT]". SELECT DIAG MODE SELF-DIAG [CURRENT] SELF-DIAG [PAST] TROUBLE DIAG RECORD ECU DISCRIMINATED NO. SRS697

7. If no malfunction is detected on "SELF-DIAG [CURRENT]", SELF-DIAG [CURRENT] repair of SRS is completed. Go to step 8. DTC RESULTS: If any malfunction is detected on "SELF-DIAG [CURRENT]", the malfunctioning part is not repaired completely or another mal-NO DTC IS DETECTED. FURTHER TESTING functioning part is detected. Go to SRS-22, "DIAGNOSTIC MAY BE REQUIRED. PROCEDURE 2", and repair malfunctioning part completely. SRS701 Touch "ERASE". 8. SELF-DIAG [CURRENT] NOTE: DTC RESULTS: Touch "ERASE" to clear the memory of the malfunction ("SELF-AIR BAG MODULE DIAG [PAST]"). [OPEN] If the memory of the malfunction in "SELF-DIAG [PAST]" is not erased, the User mode shows the system malfunction by the operation of the warning lamp even if the malfunction is repaired completely. ERASE SRS773 9. Touch "BACK" key of CONSULT-II to "SELECT DIAG MODE" SELECT DIAG MODE screen. Touch "SELF-DIAG [PAST]". SELF-DIAG [CURRENT] SELF-DIAG (PAST) TROUBLE DIAG RECORD ECU DISCRIMINATED NO. SRS697 10. Make sure no malfunction is detected on "SELF-DIAG [PAST]". SELF-DIAG [PAST] 11. Touch "BACK" key of CONSULT-II until "SELECT SYSTEM" DTC RESULTS: appears in order to return to User mode from Diagnosis mode. NO DTC IS DETECTED. 12. Turn ignition switch OFF then turn off and disconnect CON-FURTHER TESTING MAY BE REQUIRED. SULT-II. 13. Refer to SRS-20, "Checking Air Bag Operation by Using "AIR BAG" Warning Lamp — User Mode". SRS702

DIAGNOSTIC PROCEDURE 4 (CONTINUED FROM DIAGNOSTIC PROCEDURE 2) Inspecting SRS malfunctioning record

1. CONSIDER POSSIBILITY OF NOT ERASING SELF-DIAGNOSTIC RESULT AFTER REPAIRING

Is it the first time for maintenance of SRS?

YES or NO

YES >> Go to <u>SRS-22, "DIAGNOSTIC PROCEDURE 2"</u>.

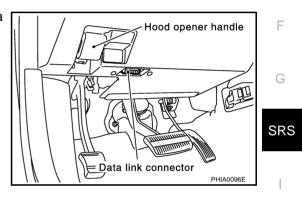
NO >> Self-diagnostic result "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased C after repair. Go to <u>SRS-27, "DIAGNOSTIC PROCEDURE 3"</u>.

DIAGNOSTIC PROCEDURE 5

Inspecting SRS intermittent malfunction by using CONSULT-II — Diagnosis mode CAUTION:

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carry out CAN communication.

- 1. Turn ignition switch OFF.
- 2. Connect CONSULT-II and CONSULT-II CONVERTER to data link connector.



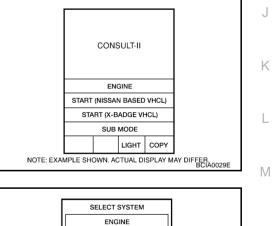
А

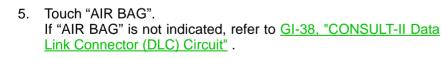
В

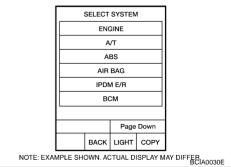
D

F

- 3. Turn ignition switch ON.
- 4. Touch "START (NISSAN BASED VHCL)".



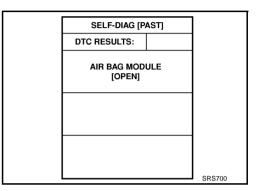




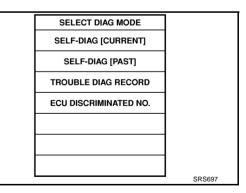
6. Touch "SELF-DIAG [PAST]".

step 10.

SELECT DIAG MODE	
SELF-DIAG [CURRENT]	
SELF-DIAG [PAST]	
TROUBLE DIAG RECORD	
ECU DISCRIMINATED NO.	
	SRS697



SELF-DIAG [PAST]
DTC RESULTS:
NO DTC IS DETECTED.
FURTHER TESTING
MAY BE REQUIRED.
SRS702



9. Diagnostic code is displayed on "TROUBLE DIAG RECORD".

7. If diagnostic codes are displayed on "SELF-DIAG [PAST]", go to

If no malfunction is detected on "SELF-DIAG [PAST]", touch

With "TROUBLE DIAG RECORD", diagnosis results previously

"BACK" and go back to "SELECT DIAG MODE".

erased by a reset operation can be displayed.

8. Touch "TROUBLE DIAG RECORD".

10. Touch "PRINT".

NOTE:

- 11. Compare diagnostic codes to <u>SRS-31</u>, "CONSULT-II Diagnostic <u>Code Chart ("SELF-DIAG [PAST]</u>" or "TROUBLE DIAG <u>RECORD")</u>".
- 12. Touch "BACK" key of CONSULT-II until "SELECT SYSTEM" appears.
- 13. Turn ignition switch OFF, then turn off and disconnect CON-SULT-II, and both battery cables.

TROUBLE DIAG F	ECORD	
DTC RESULTS:		
DRIVER AIR BAG M [OPEN]	NODULE	
		SHIA0182E

- 14. Repair the system as outlined by the "Repair order" in "Intermittent Malfunction Diagnostic Code Chart", that corresponds to the self-diagnosis result. For replacement procedure of component parts, refer to the Removal and Installation procedure for the appropriate component.
- 15. Go to SRS-27, "DIAGNOSTIC PROCEDURE 3", for final checking.

CONSULT-II Diagnostic Code Chart ("SELF-DIAG [PAST]" or "TROUBLE DIAG RECORD")

Diagnostic item		Explanation	Repair order "Recheck SRS at each replacement"
NO DTC IS DETECTED.	When malfunction is indicated by the "AIR BAG" warning lamp in User mode.	• Low battery voltage (Less than 9V)	Go to <u>SRS-27, "DIAGNOSTIC PRO-</u> <u>CEDURE 3"</u> .
	No malfunction is determined	ected.	Go to <u>SRS-27, "DIAGNOSTIC PRO-</u> <u>CEDURE 3"</u> .
DRIVER AIRBAG MODULE	• Driver air bag module circuit is open (including the spiral cable).		1. Visually check the wiring harness connection.
[OPEN] DRIVER AIRBAG MODULE [VB-SHORT]	Driver air bag module (including the spiral ca	circuit is shorted to a power supply circuit able).	 2. Replace the harness if it has visible damage. 3. If the harness check result is OK, replace driver air bag module
DRIVER AIRBAG MODULE [GND-SHORT]	 Driver air bag module circuit is shorted to ground (including the spiral cable). Driver air bag module circuit is shorted between lines. 		(Before disposal, it must be deployed.), diagnosis sensor unit and spiral cable.
DRIVER AIRBAG MODULE [SHORT]			
ASSIST A/B MODULE [OPEN]	• Front passenger air bag module circuit is open.		1. Visually check the wiring harness connection.
ASSIST A/B MODULE [VB-SHORT]	• Front passenger air bag module circuit is shorted to a power supply circuit.		2. Replace the harness if it has visible damage.
ASSIST A/B MODULE [GND-SHORT]	• Front passenger air bag module circuit is shorted to ground.		3. If the harness check result is OK, replace the diagnosis sensor unit
ASSIST A/B MODULE [SHORT]	• Front passenger air bag module circuit is shorted between lines.		and front passenger air bag module (Before disposal, it must be deployed.).
CRASH ZONE SEN [UNIT FAIL]	Crash zone sensor		1. Visually check the wiring harness connection.
CRASH ZONE SEN [COMM FAIL]			2. Replace the harness if it has visible damage.
			 If the harness check result is OK, replace crash zone sensor and diag- nosis sensor unit.
SIDE MODULE LH [OPEN]	• Front LH side air bag module circuit is open.		1. Visually check the wiring harness connection.
SIDE MODULE LH [VB-SHORT]	• Front LH side air bag module circuit is shorted to a power sup- ply circuit.		2. Replace the harness if it has visible damage.
SIDE MODULE LH [GND-SHORT]	• Front LH side air bag	module circuit is shorted to ground.	3. If the harness check result is OK, replace the diagnosis sensor unit
SIDE MODULE LH [SHORT]	• Front LH side air bag module circuit is shorted between lines.		and LH side air bag module. (Before disposal, it must be deployed.).

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В

Diagnostic item	Explanation	Repair order "Recheck SRS at each replacement"	
SIDE MODULE RH [OPEN]	• Front RH side air bag module circuit is open.	1. Visually check the wiring harness connection.	
SIDE MODULE RH	 Front RH side air bag module circuit is shorted to a power sup- ply circuit. 	 Replace the harness if it has visible damage. 	
SIDE MODULE RH [GND-SHORT]	• Front RH side air bag module circuit is shorted to ground.	 If the harness check result is OK, replace the diagnosis sensor unit 	
SIDE MODULE RH [SHORT]	• Front RH side air bag module circuit is shorted between lines.	and RH side air bag module (Before disposal, it must be deployed.)	
SATELLITE SENS LH [UNIT FAIL]	LH side air bag (Satellite) sensor	1. Visually check the wiring harness connection.	
SATELLITE SENS LH [COMM FAIL]		2. Replace the harness if it has visible damage.	
		 If the harness check result is OK, replace the diagnosis sensor unit and LH side air bag (Satellite) sen- sor. 	
SATELLITE SENS RH [UNIT FAIL]	RH side air bag (Satellite) sensor	1. Visually check the wiring harness connection.	
SATELLITE SENS RH [COMM FAIL]		2. Replace the harness if it has visible damage.	
		 If the harness check result is OK, replace the diagnosis sensor unit and RH side air bag (Satellite) sen- sor. 	
PRE-TEN FRONT LH [OPEN]	• Front LH pre-tensioner circuit is open.	1. Visually check the wiring harness connections.	
PRE-TEN FRONT LH [VB-SHORT]	• Front LH pre-tensioner circuit is shorted to a power supply circuit.	 Replace the harness if it has visible damage. 	
PRE-TEN FRONT LH [GND-SHORT]	• Front LH pre-tensioner circuit is shorted to ground.	 If the harness check result is OK, replace the diagnosis sensor unit and front LH seat belt (Before disposal, it must be acti- vated.) 	
PRE-TEN FRONT LH [SHORT]	 Front LH pre-tensioner circuit is shorted between lines. 		
PRE-TEN FRONT RH [OPEN]	• Front RH pre-tensioner circuit is open.	1. Visually check the wiring harness connections.	
PRE-TEN FRONT RH [VB-SHORT]	• Front RH pre-tensioner circuit is shorted to a power supply cir- cuit.	 Replace the harness if it has visible damage. 	
PRE-TEN FRONT RH [GND-SHORT]	• Front RH pre-tensioner circuit is shorted to ground.	3. If the harness check result is OK, replace the diagnosis sensor unit	
PRE-TEN FRONT RH [SHORT]	• Front RH pre-tensioner circuit is shorted between lines.	and front RH seat belt (Before disposal, it must be acti- vated.)	
CURTAIN MODULE LH [OPEN]	• LH side curtain air bag module circuit is open.	1. Visually check the wiring harness connection.	
CURTAIN MODULE LH [VB-SHORT]	• LH side curtain air bag module circuit is shorted to a power supply circuits.	2. Replace the harness if it has visible damage.	
CURTAIN MODULE LH [GND-SHORT]	• LH side curtain air bag module circuit is shorted to a power supply circuit.	3. If the harness check result is OK, replace the diagnosis sensor unit	
CURTAIN MODULE LH [SHORT]	• LH side curtain air bag module circuit is shorted between lines.	and LH side curtain air bag module. (Before disposal, it must be deployed.)	

Diagnostic item	Explanation	Repair order "Recheck SRS at each replacement"	
CURTAIN MODULE RH [OPEN]	• RH side curtain air bag module circuit is open.	1. Visually check the wiring harness connection.	
CURTAIN MODULE RH [VB-SHORT]	• RH side curtain air bag module circuit is shorted to a power supply circuit.	2. Replace the harness if it has visible damage.	
CURTAIN MODULE RH [GND-SHORT]	• RH side curtain air bag module circuit is shorted to ground.	3. If the harness check result is OK, replace the diagnosis sensor unit	
CURTAIN MODULE RH [SHORT]	• RH side curtain air bag module circuit is shorted between lines.	and RH side curtain air bag module. (Before disposal, it must be deployed.)	
CONTROL UNIT	Diagnosis sensor unit is malfunctioning.	1. Visually check the wiring harness connection.	
		2. Replace the diagnosis sensor unit.	
OCCUPANT SENS C/U [UNIT FAIL]	 Occupant classification system control unit is malfunctioning. 	1. Replace front passenger seat cush- ion/occupant classification system control unit assembly.	
OCCUPANT SENS C/U [COMM FAIL]	 Communication between the occupant classification system control unit and air bag diagnosis sensor unit is interrupted, 	1. Visually check the wiring harness connection.	
	diagnosis sensor unit is malfunction, or occupant classification system control unit is malfunctioning.	2. Replace the harness if it has visible damage.	
		 Replace front passenger seat cush- ion/occupant classification system control unit assembly. 	99
		4. Replace the diagnosis sensor unit.	
		5. Replace the related harness.	
OCCUPANT SENS [UNIT FAIL]	 Occupant classification sensor is malfunctioning. 	 Replace front passenger seat cush- ion/occupant classification system control unit assembly. 	
BELT TENSION SENS [UNIT FAIL]	 Belt tension sensor circuit between belt tension sensor and occupant classification system control unit, or diagnosis sensor 	1. Visually check the wiring harness connection.	
	unit is malfunctioning.	 Replace the harness if it has visible damage. 	
		 Replace front seat belt (passenger side) assembly. 	
		 Replace front passenger seat cush- ion/occupant classification system control unit assembly. 	
PASS A/B INDCTR CKT	 Front passenger air bag off indicator or related circuit is mal- functioning. 	1. Visually check the wiring harness connection.	
		2. Replace the harness if it has visible damage.	
		 Replace front passenger air bag off indicator (display and A/C auto amp.). 	
		4. Replace the diagnosis sensor unit.	
		5. Replace the related harness.	

Trouble Diagnosis without CONSULT-II

AHS000DQ

DIAGNOSTIC PROCEDURE 6

Ins	pecting SRS Malfunctioning Parts by Using "AIR BAG" Warning Lamp — Diagnosis Mode	А
-	TE:	
SR	S will not enter Diagnosis mode if no malfunction is detected in User mode.	
1.	Turn ignition switch ON.	В
2.	After "AIR BAG" warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.	
3.	Wait more than 3 seconds.	С
4.	Repeat the steps 1 to 3 twice. (Perform three times in all.)	C
5.	Turn ignition switch ON.	
SR	S is now in Diagnosis mode.	D
"All	R BAG" warning lamp operates in Diagnosis mode as follows:	

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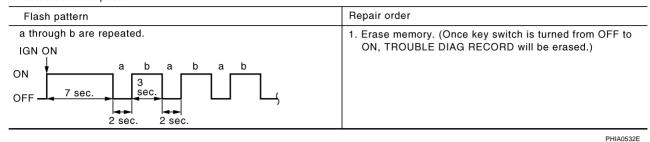
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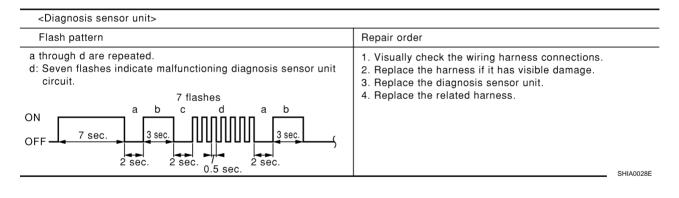
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WARNING LAMP FLASH CODE CHART

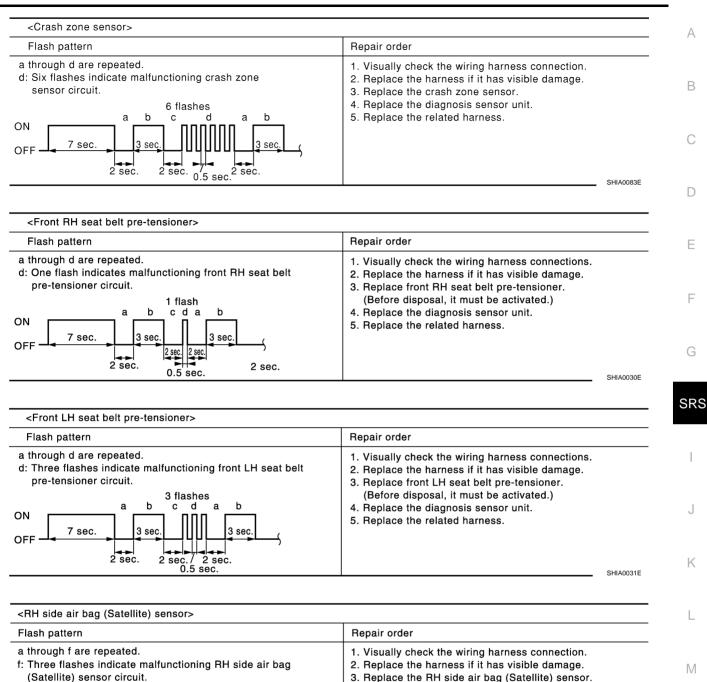
<Diagnosis results (previously stored in the memory) might not be erased after repair or intermittent malfunctions have been detected in the past.>



<Driver air bag module> Flash pattern Repair order a through d are repeated. 1. Visually check the wiring harness connection. d: Two flashes indicates malfunctioning driver air bag module 2. Replace the harness if it has visible damage. circuit. 3. Replace the spiral cable. 4. Replace driver air bag module. 2 flashes (Before disposal, it must be deployed.) b d а С а b ON 5. Replace the diagnosis sensor unit. 3 sec 6. Replace the related harness. 7 sec OFF 2 sec. 2 sec. 2 sec. 0.5 sec PHIA0185E



Flash pattern	Repair order
a through d are repeated. d: Eight flashes indicate malfunctioning front passenger air bag module circuit. ON OFF 7 sec. 2 sec. 2 sec. 0.5 sec.	 Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace front passenger air bag module. (Before disposal, it must be deployed.) Replace the diagnosis sensor unit. Replace the related harness.



3. Replace the RH side air bag (Satellite) sensor.

4. Replace the diagnosis sensor unit.

5. Replace the related harness.

SHIA0032E

ON

OFF

3 flashes

f

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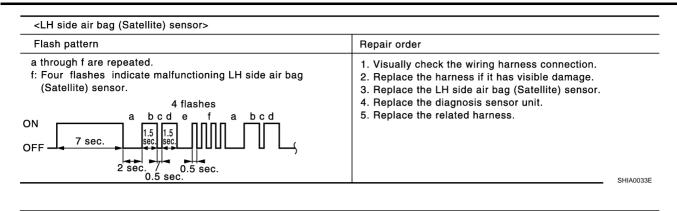
2 sec. 0.5 sec. 2 sec.

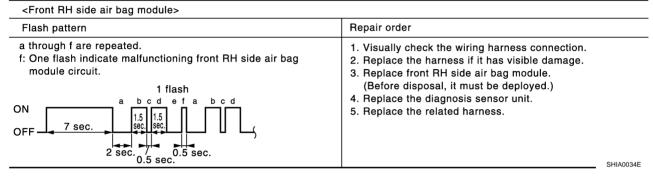
bcd

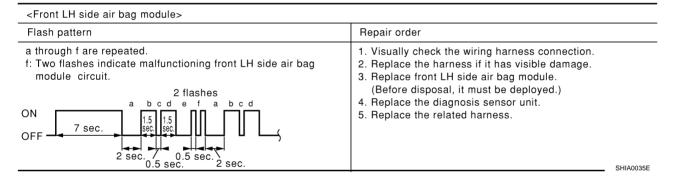
bcd

а

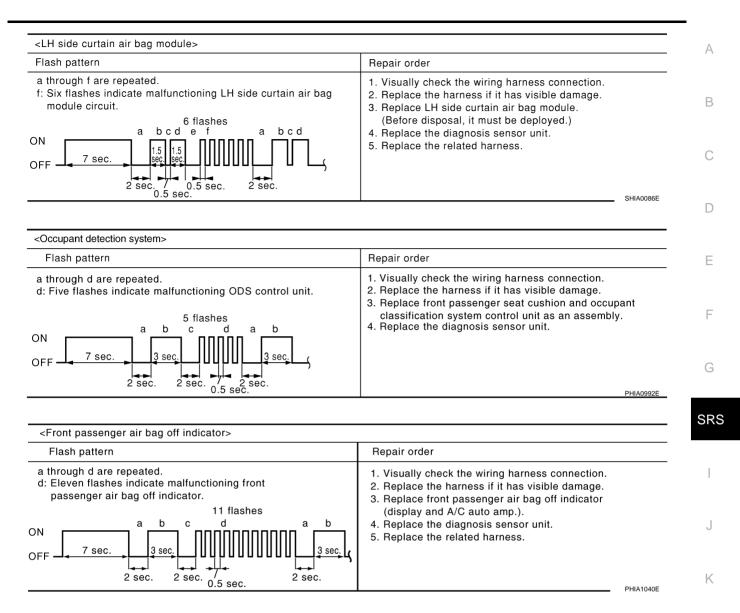
7 sec.







<rh air="" bag="" curtain="" module="" side=""></rh>		
Flash pattern	Repair order	
a through f are repeated. f: Five flashes indicate malfunctioning RH side curtain air bag module circuit. ON OFF 7 sec. 2 sec. 0.5 sec. 0.5 sec. 2 sec. 0.5 sec. 2 sec.	 Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace RH side curtain air bag module. (Before disposal, it must be deployed.) Replace the diagnosis sensor unit. Replace the related harness. 	SHI40084E



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Trouble Diagnosis: "AIR BAG" Warning Lamp Does Not Turn Off DIAGNOSTIC PROCEDURE 7

AHS000DR

1. CHECK THE DEPLOYMENT OF AIR BAG MODULE

Is air bag module deployed?

YES or NO

YES >> Refer to <u>SRS-63, "COLLISION DIAGNOSIS"</u>.

NO >> GO TO 2.

2. CHECK THE AIR BAG FUSE

Check 10A fuse [No.13, located in fuse block (J/B)]. Refer to PG-3, "POWER SUPPLY ROUTING CIRCUIT".

OK or NG

OK >> GO TO 4. NG >> GO TO 3.

3. CHECK AIR BAG FUSE AGAIN

Replace "AIR BAG" fuse and turn ignition switch ON.

Does the "AIR BAG" fuse blow again?

YES >> Repair main harness.

NO >> INSPECTION END

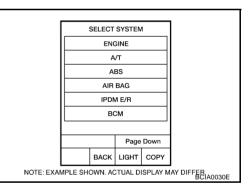
4. CHECK DIAGNOSIS SENSOR UNIT

Connect CONSULT-II and touch "START".

Is "AIR BAG" displayed on CONSULT-II?

YES or NO

- YES >> GO TO 5.
- NO >> Visually check the wiring harness connection of diagnosis sensor unit. If the harness connection check result is OK, replace diagnosis sensor unit.



5. CHECK HARNESS CONNECTION

Is harness connection between warning lamp and diagnosis sensor unit OK? OK or NG

- OK >> Replace diagnosis sensor unit.
- NG >> Connect "AIR BAG" warning lamp and diagnosis sensor unit connector properly. If "AIR BAG" warning lamp still does not go off, replace harness.

Trouble Diagnosis: "AIR BAG" Warning Lamp Does Not Turn On AHSOODS DIAGNOSTIC PROCEDURE 8
1. CHECK METER FUSE
Check 10A fuse [No.14, located in fuse block (J/B)]. Refer to <u>PG-3, "POWER SUPPLY ROUTING CIRCUIT"</u> .
<u>OK or NG</u> OK >> GO TO 3. NG >> GO TO 2.
2. CHECK METER FUSE AGAIN
Replace 10A fuse [No.14, located in fuse block (J/B)] and turn ignition switch ON. <u>Does the meter fuse blow again?</u> YES >> Repair the related harness. NO >> INSPECTION END
3. CHECK HARNESS CONNECTION BETWEEN DIAGNOSIS SENSOR UNIT AND COMBINATION METER
 Disconnect diagnosis sensor unit connector and turn ignition switch ON. Does "AIR BAG" warning lamp turn on? YES or NO
YES >> Replace diagnosis sensor unit. NO >> Replace combination meter assembly.

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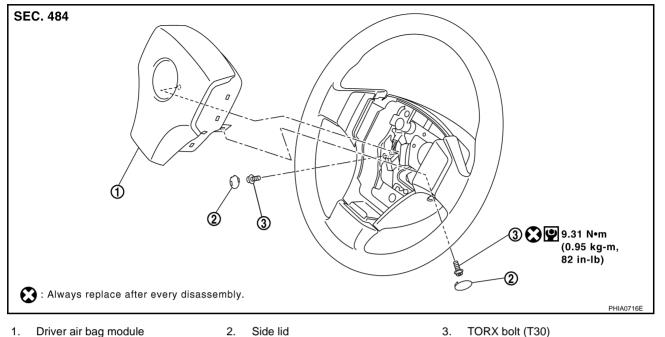
DRIVER AIR BAG MODULE

DRIVER AIR BAG MODULE

PFP:K8510

AHS00003

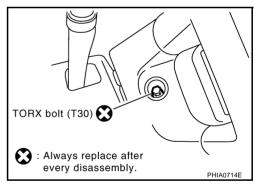
Removal and Installation



REMOVAL

CAUTION:

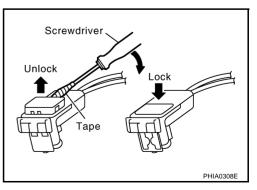
- Before servicing SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
- Always work from the side of driver air bag module.
- 1. Remove the side lids (LH/RH).
- 2. Using Tamper resistant TORX bit (T30), remove the TORX bolts (T30) at right and left.



- 3. Disconnect the steering wheel switch sub-harness connector.
- 4. Disconnect the air bag harness connector, and remove the driver air bag module.

CAUTION:

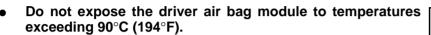
- For installing / removing driver air bag module connector, insert thin screwdriver wrapped in tape into notch, lift lock and remove connector.
- Install connector with lock raised, and push lock into connector.



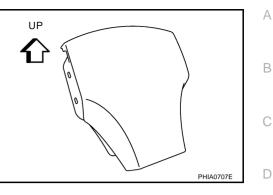
DRIVER AIR BAG MODULE

CAUTION:

- Always work from the side of driver air bag module.
- Always place driver air bag module with pad side facing upward.
- Do not insert any foreign objects (screwdriver, etc.) into driver air bag module.
- Do not disassemble driver air bag module.
- Do not use old bolts after removal; replace with new bolts.



- Replace driver air bag module if it has been dropped or sustained an impact.
- Do not allow oil, grease or water to come in contact with the front passenger air bag module.





INSTALLATION

Install in the reverse order of removal.

- For installing the air bag module, tighten the TORX bolts (T30).
- After the work is completed, perform self-diagnosis to make sure no malfunction is detected. Refer to <u>SRS-20, "SRS Operation Check"</u>.

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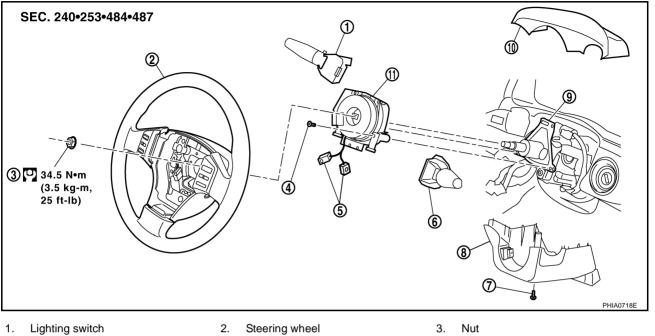
SPIRAL CABLE

SPIRAL CABLE

PFP:25554

AHS000F0

Removal and Installation



- 4. Screw
- 7. Screw
- 10. Steering column cover (upper)
- 5. Driver air bag module connector
- Steering column cover (lower) 8.
- 11. Spiral cable

- Wiper washer switch 6.
- Steering column assembly 9.

REMOVAL

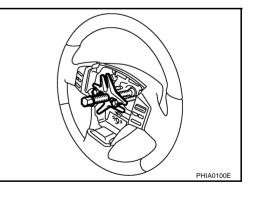
CAUTION:

Before servicing SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.

- Remove driver air bag module. Refer to SRS-42, "Removal and Installation" . 1.
- Set the steering wheel in the neutral position. 2.
- 3. Remove steering wheel nut.
- 4. Remove steering wheel with steering wheel puller [SST: ST27180001 (J-25726-A)].

CAUTION:

Be careful not to over-tighten puller on steering wheel.

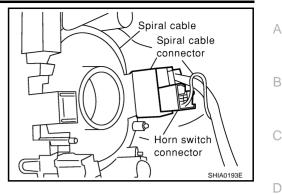


- 5. Remove steering column cover upper and lower. Refer to <u>IP-12, "REMOVAL"</u>.
- 6. Loosen the spiral cable fixing screws, and then remove the spiral cable. **CAUTION:**
 - Do not disassemble spiral cable.
 - Do not apply lubricant to the spiral cable.

7. Disconnect the horn switch connector, and then the spiral cable connector.

CAUTION:

Do not tap or bump the steering wheel.



8. Remove the wiper washer switch and lighting switch from the spiral cable. **CAUTION:**

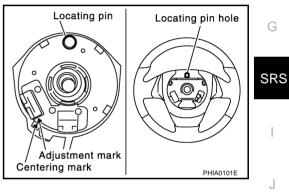
The spiral cable may snap due to steering operation if the cable is installed in an improper position.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- The spiral cable may snap due to steering operation if the cable is installed in an improper position.
- Also, with the steering linkage disconnected the cable may snap by turning the steering wheel beyond the limited number of turns. The spiral cable can be turned counterclockwise about 2.5 turns from the right end position.
- After the work is completed, perform self-diagnosis to make sure that no malfunction is detected. Refer to <u>SRS-20, "SRS</u> <u>Operation Check"</u>.



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Always work from the side of front passenger air bag module. 1. Remove instrument panel & pad. Refer to IP-10, "INSTRUMENT PANEL ASSEMBLY" .

2. Remove bolt, then remove front passenger air bag module.

FRONT PASSENGER AIR BAG MODULE

Bolt (M8) : 24.5 N·m (2.5 kg-m, 18 ft-lb)

Bolt (M6)

REMOVAL **CAUTION:**

CAUTION:

.

minutes.

Removal and Installation

: 🕑 6 N·m (0.6 kg-m, 53 in-lb)

- .
- Replace front passenger air bag module if it has been dropped or sustained an impact.
- Do not expose the front passenger air bag module to temperatures exceeding 90°C (194°F).
- Do not allow oil, grease or water to come in contact with the front passenger air bag module.
- After front passenger air bag module inflates, the instrument panel assembly should be replaced.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Always work from the side of or under front passenger air bag module.
- After the work is completed, perform self-diagnosis to make sure no malfunction is detected. Refer to SRS-20, "SRS Operation Check" .

FRONT PASSENGER AIR BAG MODULE

Before servicing SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3

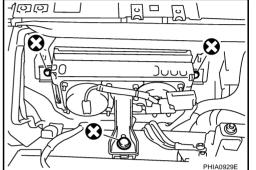
PHIA09

Always place front passenger air bag module with deployment side facing upward.

- Do not insert any foreign objects (screwdriver, etc.) into front passenger air bag module.
- Do not disassemble front passenger air bag module.
- Do not use old bolts after removal; replace with new bolts.

- .





PFP:K8515

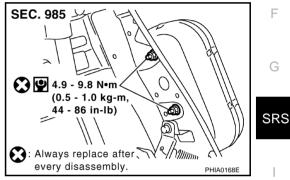
AHS000F1

FRONT SIDE AIR BAG MODULE

Removal and Installation REMOVAL

CAUTION:

- Removal of front side air bag module should only be done to allow deployment of front side air bag module prior to disposal of seatback only. Only complete seatback assemblies can be replace. Refer to <u>SE-96, "REMOVAL OF SEATBACK ASSEMBLY"</u>.
- Before servicing SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
- Always work from the rear of the front side air bag module.
- 1. Remove the front seat. Refer to <u>SE-94, "REMOVAL"</u>.
- 2. Remove the seatback trim and pad. Refer to SE-95, "SEATBACK TRIM AND PAD" .
- 3. Remove the seatback rear finisher, and remove the retainers securing the seat cushion trim. Refer to <u>SE-96, "SEAT CUSHION TRIM AND PAD (POWER SEAT)"</u>.
- 4. Remove air bag module harness clips.
- 5. Remove the special fasteners coated with bonding agent from the front side air bag module, and remove the front side air bag module.



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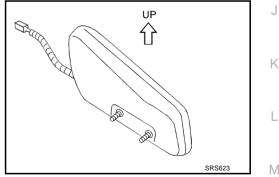
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CAUTION:

- Always place the front side air bag module standing with the stud bolt side facing down.
- Do not insert any foreign objects (screwdrivers) into front side air bag module.
- Do not disassemble front side air bag module.



- Replace front seatback assembly (side air bag module) if it has been dropped or sustained an impact.
- Do not expose front seatback assembly (side air bag module) to temperatures exceeding 90°C (194°F).
- Do not allow oil, grease or water to come in contact with the front side air bag module.
- After front side air bag module inflates, front seatback assembly must be replaced.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Always work from the side of or under front passenger air bag module.
- After the work is completed, perform self-diagnosis to make sure that no malfunction is detected. Refer to <u>SRS-20, "SRS Operation Check"</u>.

SIDE CURTAIN AIR BAG MODULE

SIDE CURTAIN AIR BAG MODULE

Removal and Installation

1. Side curtain air bag

REMOVAL

CAUTION:

Before servicing SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.

3.

Bolt

Side curtain air bag module

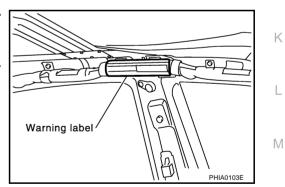
• Always work from the side of the side curtain air bag module.

2.

- 1. Remove headlining. Refer to EI-45, "HEADLINING" .
- 2. Disconnect side curtain air bag connector.
- 3. Remove side curtain air bag module fixing bolts, and remove the side curtain air bag module.

CAUTION:

- Always place the side curtain air bag module with the warning label facing upward.
- Do not disassemble side curtain air bag module.
- Do not insert any foreign objects (screwdriver, etc.) into air bag module connector.



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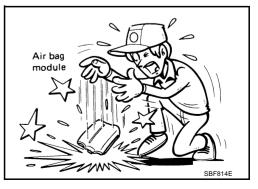
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- Replace side curtain air bag module if it has been dropped or sustained an impact.
- Do not expose the air bag module to temperatures exceeding 90°C (194°F).
- Do not allow oil, grease or water to come in contact with the side curtain air bag module.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Always work from the side of the side curtain air bag module.
- After replacement of side curtain air bag module, perform self-diagnosis to make sure no malfunction is detected. Refer to <u>SRS-20, "SRS Operation Check"</u>.

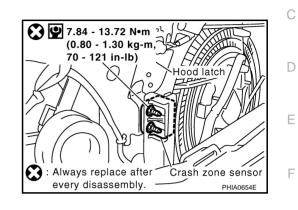
CRASH ZONE SENSOR

Removal and Installation REMOVAL

CAUTION:

Before servicing SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.

- 1. Remove front grille. Refer to EI-20, "FRONT GRILLE" .
- 2. Remove crash zone sensor connector.
- 3. Remove crash zone sensor fixing nuts.



CAUTION:

- Replace crash zone sensor if it has been dropped or sustained an impact.
- Do not disassemble crash zone sensor.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check crash zone sensor for proper installation.
- After the work is complete, perform self-diagnosis to make sure no malfunction is detected. Refer to <u>SRS-20, "SRS Operation Check"</u>.

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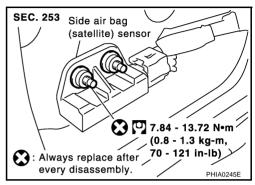
SIDE AIR BAG (SATELLITE) SENSOR

Removal and Installation REMOVAL

CAUTION:

Before servicing SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.

- 1. Remove seat belt pre-tensioner. Refer to <u>SB-4, "Removal and Installation of Front Seat Belt"</u>.
- 2. Remove side air bag (Satellite) sensor fixing nuts.
- 3. Remove the side air bag (Satellite) sensor connector.



CAUTION:

- Do not use old nuts; replace with new ones.
- Check side air bag (Satellite) sensor to ensure it is free of deformities, dents, cracks or rust. If it shows any visible signs of damage, replace it with new one.
- Do not disassemble side air bag (Satellite) sensor.
- Replace side air bag (Satellite) sensor if it has been dropped or sustained an impact.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check side air bag (Satellite) sensor for proper installation.
- After replacement of side air bag (Satellite) sensor, perform self-diagnosis to make sure no malfunction is detected. Refer to <u>SRS-20, "SRS Operation Check"</u>.

Edition; 2004 September

PFP:98830

AHS0000X

FRONT SEAT BELT PRE-TENSIONER

FRONT SEAT BELT PRE-TENSIONER	PFP:86884
Removal and Installation	AHS0000Y
For removal and installation procedures, refer to <u>SB-4</u> , "Removal and Installation of Front Seat Belt"	

DIAGNOSIS SENSOR UNIT

Removal and Installation REMOVAL

CAUTION:

Before servicing SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.

- 1. Disconnect each harness connector for the air bag module and seat belt pre-tensioner.
- 2. Remove center console. Refer to IP-11, "Removal and Installation" .
- 3. Disconnect diagnosis sensor unit connector.
- 4. Remove special hex bolts from the diagnosis sensor unit.

CAUTION:

- Do not use old bolts. Replace with new ones.
- Check diagnosis sensor unit bracket to ensure it is free of deformities, dents, cracks or rust. If it shows any visible signs of damage, replace with new one.
- Replace diagnosis sensor unit if it has been dropped or sustained an impact.

INSTALLATION

Install in the reverse order of removal.

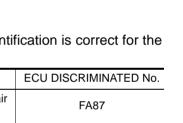
CAUTION:

- Check the diagnosis sensor unit for proper installation.
- After replacement of diagnosis sensor unit, perform self-diagnosis to make sure no malfunction is detected. Refer to <u>SRS-20, "SRS Operation Check"</u>.

ECU DISCRIMINATED NO.

After replacing the diagnosis sensor unit, confirm that the diagnosis sensor unit identification is correct for the vehicle as equipped.

	Specification	ECU DISCRIMINATED No.
2WD	Models with driver and passenger air bags, seat belt pre-tensioner, side air bags and curtain air bags	FA87
AWD	Models with driver and passenger air bags, seat belt pre-tensioner, side air bags and curtain air bags	FA89





Diagnosis

sensor unit

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9 🔽 19.6

(2.0 - 2.9,

💟 : N•m (kg-m, ft-lb)

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15 - 21)

SEC. 253

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Ground bolt

0.63 - 0.78,

54 - 68)

: Always replace

after every disassembly.

AHS0000Z

OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT	PFP:98852
Removal and Installation	AHS000RX
The occupant classification system control unit, seat pressure sensor, and bladder are an integral p front passenger seat cushion and are replaced as an assembly. Refer to <u>SE-90, "FRONT SEAT"</u> .	part of the

Caution for Air Bag Module and Seat Belt Pre-Tensioner

PFP:00014

AHSOODES

- Before disposing of air bag module and seat belt pre-tensioner, or vehicles equipped with such systems, deploy the systems. If such systems have already been deployed due to an accident, dispose of them as indicated in SRS-56, "DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER".
- When deploying the air bag module and seat belt pre-tensioner, always use the Special Service Tool; Deployment tool [KV99106400 (J-38381)].
- When deploying the air bag module and seat belt pre-tensioner, stand at least 5 m (16 ft) away from the deployment component.
- When deploying air bag module and seat belt pre-tensioner, a fairly loud noise is made, followed by smoke being released. The smoke is not poisonous, however, be careful not to inhale smoke since it irritates the throat and can cause choking.
- Always activate one air bag module at a time.
- Due to heat, leave air bag module unattended for more than 30 minutes after deployment. Also leave seat belt pre-tensioner unattended for more than 10 minutes after deployment.
- Be sure to wear gloves when handling a deployed air bag module and seat belt pre-tensioner.
- Never apply water to the deployed air bag module and seat belt pre-tensioner.
- Wash your hands clean after finishing work.
- Place the vehicle outdoors with an open space of at least 6 m (20 ft) on all sides when deploying air bag module and seat belt pre-tensioner while mounted in vehicle.
- Use a voltmeter to make sure the vehicle battery is fully charged.
- Do not dispose of the air bag module and seat belt pre-tensioner undeployed.

CHECKING DEPLOYMENT TOOL

Connecting to Battery

CAUTION:

The battery must show voltage of 9.6 V or more.

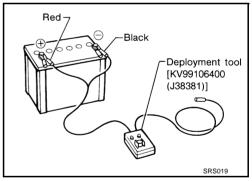
Remove the battery from the vehicle and place it on dry wood blocks approximately 5 m (16 ft) away from the vehicle.

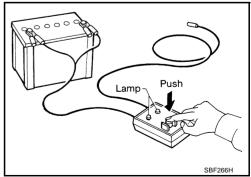
- Wait 3 minutes after the vehicle battery is disconnected before proceeding.
- Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.

Make sure the polarity is correct. The right side lamp in the tool, marked "deployment tool power", should glow with a green light. If the right side lamp glows red, reverse the connections to the battery.

Deployment Tool Check

Press the deployment tool switch to the ON position. The left side lamp in the tool, marked "air bag connector voltage" should illuminate. If it does not illuminate, replace the tool.





Air Bag Deployment Tool Lamp Illumination Chart (Battery Connected)

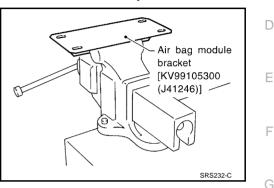
Switch operation	Left side lamp, green* "AIR BAG CONNECTOR VOLTAGE"	Right side lamp, green* "DEPLOYMENT TOOL POWER"
OFF	OFF	ON
ON	ON	ON

*: If this lamp glows red, the tool is connected to the battery incorrectly. Reverse the connections and make sure the lamp glows green.

DEPLOYMENT PROCEDURES FOR AIR BAG MODULE (OUTSIDE OF VEHICLE)

Unless the vehicle is being scrapped, deploying the air bag in the vehicle is not recommended. This may cause damage to the vehicle interior.

Anchor air bag module bracket [SST: KV99105300 (J-41246)] in a vise secured to a firm foundation during deployment.



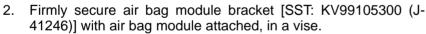
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Deployment of Driver Air Bag Module (Outside of Vehicle)

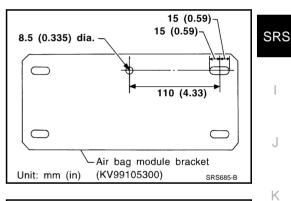
1. Make an 8.5 mm (0.335 in) diameter hole in air bag module bracket [SST: KV99105300 (J-41246)] at the position shown in figure at right.

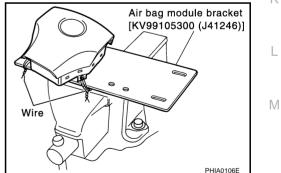


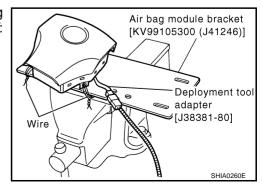
3. Using wire, secure air bag module to air bag module bracket [SST: KV99105300 (J-41246)] at two places. CAUTION:

Use wire of at least 1 mm (0.04 in) diameter.

4. Connect deployment tool adapter (SST: J-38381-80) to air bag module connector and deployment tool connector [SST: KV99106400 (J-38381)].







- 5. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
- 6. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
- 7. Press the button on the deployment tool. The left side lamp on the tool, marked "air bag connector voltage", will illuminate and the air bag module will deploy.

CAUTION:

When deploying the driver air bag module, stand at least 5 m (16 ft) away from the air bag module.

Deployment of Front Passenger Air Bag Module (Outside of Vehicle)

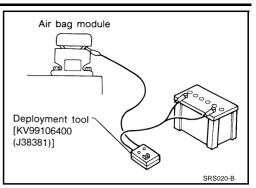
- 1. Make an 8.5 mm (0.335 in) diameter hole in air bag module bracket [SST: KV99105300 (J-41246)].
- Firmly secure air bag module bracket [SST: KV99105300 (J-41246)] in a vise.
- 3. Match the hole in air bag module bracket (held in vise) and front passenger air bag module and fix them with one bolt [M8 \times 25 30 mm (0.98 1.18 in)].
- Connect deployment tool [SST: KV99106400 (J-38381)] and deployment tool adapter [SST: KV99110500 (J-38381-65)] to front passenger air bag module connector.
- 5. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
- 6. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
- 7. Press the button on the deployment tool. The left side lamp on the tool, marked "air bag connector voltage", will illuminate and the air bag module will deploy.

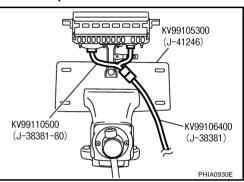
CAUTION:

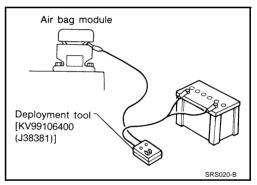
- When deploying the front passenger air bag module, do not stand on the deploying side.
- Stand at least 5 m (16 ft) away from the air bag module.

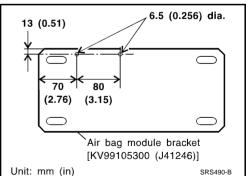
Deployment of Front Side Air Bag Module (Outside of Vehicle)

 Make 6.5 mm (0.256 in) diameter holes in air bag module bracket [SST: KV99105300 (J-41246)] at the position shown in figure.









- Firmly secure air bag module bracket [SST: KV99105300 (J-41246)] in a vise.
- 3. Insert the stud bolts of side air bag module into the two holes in air bag module bracket (held in vise) and fix them with two M6 nuts.

CAUTION:

Side air bag module should be secured to air bag module bracket [SST: KV99105300 (J-41246)] in a vise with stud bolt side facing down.

4. Connect deployment tool adapter [SST: KV99108300 (J-38381-35)] and deployment tool [SST: KV99106400 (J-38381)] on side air bag module.

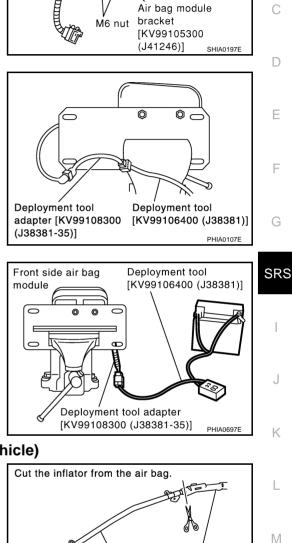
- 5. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
- 6. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
- 7. Press the button on the deployment tool. The left side lamp on the tool, marked "air bag connector voltage", will illuminate and the air bag module will deploy.

CAUTION:

When deploying the front side air bag module, stand at least 5 m (16 ft) away from the air bag module.

Deployment of Side Curtain Air Bag Module (Outside of Vehicle)

1. Cut the inflator from side curtain air bag module.



Inflator

Front side air bag module

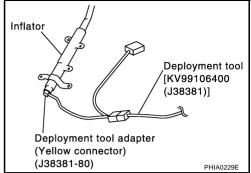
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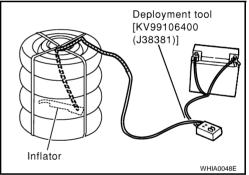
Side curtain air bag module

PHIA0228E

2. Connect deployment tool [SST: KV99106400 (J-38381)] and deployment tool adapter yellow connector (SST: J-38381-80) to the inflator.



3. Put the inflator connected with the deployment tool [SST: Deployment tool [KV99106400 Inflator (J38381)] SHIA0201E



4. Put the tire with the inflator onto another tire without wheel. Add an additional tire without a wheel and then a tire mounted on a wheel on top.

KV99106400 (J-38381)] into a tire without a wheel.

CAUTION:

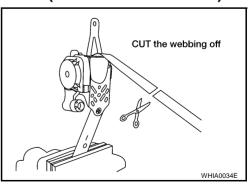
Tie all tires together with a strap in order keep them standing.

- 5. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
- The lamp on the right side of the tool, marked "deployment tool 6. power", should glow green, not red.
- 7. Press the button on the deployment tool. The left side lamp on the tool, marked "air bag connector voltage", will illuminate and the air bag module will deploy. CAUTION:

When deploying the side curtain air bag module, stand at least 5 m (16 ft) away from the side curtain air bag module.

DEPLOYMENT PROCEDURES FOR SEAT BELT PRE-TENSIONER (OUTSIDE OF VEHICLE)

1. Firmly grip pre-tensioner in a vise and cut off the webbing.



 Connect deployment tool [SST: KV99106400 (J-38381)] and deployment tool adapter (SST: J-38381-80) yellow connector to front seat belt pre-tensioner.

- 3. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
- 4. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
- 5. Press the button on the deployment tool. The left side lamp on the tool, marked "seat belt pre-tensioner connector voltage", will illuminate and the seat belt pre-tensioner will deploy.

CAUTION:

When deploying the front seat belt pre-tensioner, stand at least 5 m (16 ft) away from the seat belt pre-tensioner.

DEPLOYMENT OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER WHILE MOUNTED IN VEHICLE

When disposing of a vehicle, deploy air bag module and seat belt pre-tensioners while they are mounted in vehicle.

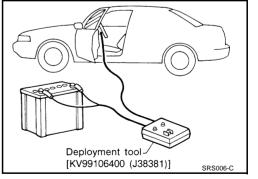
CAUTION:

When deploying air bag module or seat belt pre-tensioner, ensure vehicle is empty.

- 1. Disconnect both the vehicle battery cables and wait 3 minutes.
- 2. Disconnect air bag module and seat belt pre-tensioner connector.
- Connect deployment tool [SST: KV99106400 (J-38381)] to air bag module. For front passenger air bag module, attach deployment tool adapter (SST: J-38381-65) to the tool connector. For side air bag module, attach deployment tool adapter [SST: KV99108300 (J-38381-35)]. For driver air bag module, side curtain air bag module and seat belt pre-tensioner, attach deployment tool adapter (SST: J-38381-80).
- 4. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
- 5. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
- 6. Press the button on the deployment tool. The left side lamp on the tool, marked "air bag connector voltage", will illuminate and the air bag module or seat belt pre-tensioner will deploy.

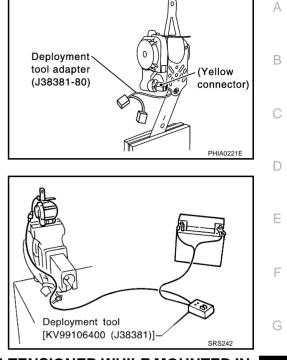
CAUTION:

Activate only one air bag module or seat belt pre-tensioner at a time.



DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Deployed air bag module and seat belt pre-tensioner are very hot. Before disposing of air bag module and seat belt pre-tensioner, wait at least 30 minutes, and 10 minutes, respectively. Seal them in a plastic bag before disposal.



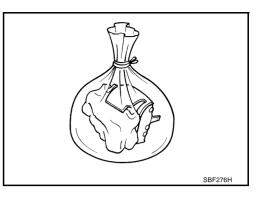
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CAUTION:

- Never apply water to a deployed air bag module or seat belt pre-tensioner.
- Be sure to wear gloves when handling a deployed air bag module or seat belt pre-tensioner.
- No poisonous gas is produced upon air bag module deployment. However, be careful not to inhale gas since it irritates the throat and can cause choking.
- Do not attempt to disassemble air bag module and seat belt pre-tensioner.
- Air bag module and seat belt pre-tensioner cannot be reused.
- Wash your hands clean after finishing work.



COLLISION DIAGNOSIS PFP:00015				
For Frontal Collision				
	perform the followin			
When SRS (except the front side air bag and side curtain air bag modules) is activated in a collision: 1. Replace the diagnosis sensor unit.				
•	•			
crash zone ser	crash zone sensor assembly, bracket and seat belt pre-tensioner assemblies.			
	S components using			
	eplace any SRS components showing visible signs of damage (dents, cracks and deformation).			
zone sensor as	ssembly, bracket an	t the front side air bag modules and side curtain air bag modules) crash d seat belt pre-tensioner assemblies.		
		SULT-II or "AIR BAG" warning lamp. Refer to <u>SRS-20, "SRS Operation</u> SRS operates properly.		
When SRS is not	activated in a collis	sion:		
1. Check the SRS	S components using	the table below:		
		owing visible signs of damage (dents, cracks and deformation).		
		SULT-II or "AIR BAG" warning lamp. Refer to <u>SRS-20, "SRS Operation</u>		
		SRS operates properly.		
-	-	is activated in a collision:		
•				
•	Diagnosis sensor unit Crash zono sonsor			
 Crash zone sensor Activated front air bag and seat belt pre-tensioner. 				
	-	using the table below (Refer to "SRS is NOT activated").		
	•	owing visible signs of damage (dents, cracks and deformation).		
	•	SULT-II or "AIR BAG" warning lamp. Refer to <u>SRS-20, "SRS Operation</u>		
		SRS operates properly.		
		ash, depending on the crash severity and whether the front occupants		
		ndicate improper performance of the system. Perform self-diagnosis to		
	re SRS operates pro			
SRS INSPECTIO	N (FOR FRONTA			
Part	SRS is activated	SRS is NOT activated		
Air bag module (driver and front pas-	REPLACE Install with new bolts.	1. Remove air bag module. Check harness cover and connectors for damage, termi- nals for deformities, and harness for binding.		
senger air bag mod-		2.		
ule)		 Install driver air bag module into the steering wheel to check fit and alignment with the wheel. 		
		 Install passenger air bag module into the instrument panel to check fit with the instrument panel. 		
		3. No damage found, reinstall with new bolts.		
		 If damaged—REPLACE air bag modules with new special bolts. Air bag must be deployed before disposal. 		
Crash zone sensor REPLACE the crash zone sensor and		1. Remove the crash zone sensor. Check harness connectors for damage, terminals for deformities, and harness for binding.		
	bracket with new nuts.	 Check for visible signs of damage (dents, cracks, deformation) of the crash zone sensor and bracket. 		
		3. Install the crash zone sensor to check fit.		
		4. No damage found, reinstall with new bolts.		
		5 If damaged—REPLACE the crash zone sensor and bracket with new nuts		

5. If damaged—REPLACE the crash zone sensor and bracket with new nuts.

Part	SRS is activated	SRS is NOT activated	
Seat belt pre-ten- sioner assemblies	REPLACE Install seat belt pre- tensioner with new	 Remove seat belt pre-tensioners. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 	
	bolts.	2. Check belts for damage and anchors for loose mounting.	
		3. Check retractor for smooth operation.	
		4. Check seat belt adjuster for damage.	
		5. If no damage is found, reinstall seat belt pre-tensioner assembly with new bolts.	
		If damaged—REPLACE seat belt pre-tensioners with new bolts.Seat belt pre-tensioners must be deployed before disposal.	
Diagnosis sensor unit	REPLACE	1. Check case for dents, cracks or deformities.	
	Install with new bolts.	2. Check connectors for damage, and terminals for deformities.	
		3. If no damage is found, reinstall with new bolts and ground bolt.	
		4. If damaged—REPLACE diagnosis sensor unit with new bolts and ground bolt.	
Steering wheel	1. Visually check steering wheel for deformities.		
	2. Check harness (built into steering wheel) and connectors for damage, and terminals for deformities.		
	3. Install air bag modul	e to check fit or alignment with steering wheel.	
	4. Check steering whee	el for excessive free play.	
	5. If no damage is foun	d, reinstall with nut.	
	6. If damaged—REPLACE.		
Spiral cable	1. Visually check spiral cable and combination switch for damage.		
	2. Check connectors a	nd protective tape for damage.	
	3. Check steering whee	el for noise, binding or heavy operation.	
	4. If no damage is found, reinstall with screws.		
	5. If damaged—REPLA	ACE.	
Harness and connec-	- 1. Check connectors for poor connection, damage, and terminals for deformities.		
tors	2. Check harness for binding, chafing, cuts, or deformities.		
	3. If no damage is foun	d, reinstall the harness and connectors.	
	4. If damaged—REPLA	CE damaged section of harness. Do not repair, splice or modify any SRS harness.	
Instrument panel	1. Visually check instrument panel for damage.		
	2. If no damage is foun	d, reinstall the instrument panel.	
	3. If damaged—REPLA	ACE the instrument panel with bolts.	

For Side Collision WHEN THE SIDE AIR BAG IS ACTIVATED IN THE SIDE COLLISION:

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- 1. Replace the following components:
- All parts of front seatback (including front seatback frame) with front side air bag module (on the side on which front side air bag is activated)
- Curtain air bag module (on the side on which side curtain air bag is activated)
- Diagnosis sensor unit
- Satellite sensor (on the side on which side air bag and side curtain air bag is activated)
- 2. Check the SRS components and the related parts using the following table.
- Replace any SRS components and the related parts showing visible signs of damage (dents, cracks, deformation).
- Conduct self-diagnosis using CONSULT-II or "AIR BAG" warning lamp. Refer to <u>SRS-20, "SRS Operation</u> <u>Check"</u>. Ensure entire SRS operates properly.

WHEN SRS IS NOT ACTIVATED IN THE SIDE COLLISION:

- 1. Check the SRS components and the related parts using the following table.
- Replace any SRS components and the related parts showing visible signs of damage (dents, cracks, deformation).
- Conduct self-diagnosis using CONSULT-II or "AIR BAG" warning lamp. Refer to <u>SRS-20, "SRS Operation</u> ^B <u>Check"</u>. Ensure entire SRS operates properly.

SRS INSPECTION (FOR SIDE COLLISION)

Part	Front side air bag and side curtain air bag is activated	Front side air bag and side curtain air bag is NOT activated	
LH or RH side curtain air bag module	Replace the side cur- tain air bag module. (Repair the center pil- lar inner, etc. before installing new one if damaged.)	1. Check for visible signs of damage (dents, tears, deformation) of the center pillar on the collision side.	
		2. If damaged— Remove the LH or RH side curtain air bag module.	
		3. Check for visible signs of damaged (tears etc.) of the LH or RH side curtain air bag module.	
		4. Check harness and connectors for damage, and terminals for deformities.	
		5. If no damage is found, reinstall the LH or RH side curtain air bag module with new bolts.	
		If damaged—REPLACE the LH or RH side curtain air bag module with new bolts. Air bag must be deployed before disposal.	
Front LH or RH side air bag module	REPLACE all parts of seatback with	 Check for visible signs of damage (dents, tears, deformation) of the seatback on the collision side. 	
	deployed front side air bag module.	2. Check harness and connectors for damage, and terminals for deformities.	
		 If damaged—REPLACE the front seatback assembly. Air bag must be deployed before disposal. 	
LH or RH side air bag (Satellite) sensor	REPLACE the side air bag (Satellite) sen- sor on the collision side with new nuts. (Repair the center pil- lar inner, etc. before installing new one if damaged.)	 Remove the LH or RH side air bag (Satellite) sensor on the collision side. Check harness connectors for damage, terminals for deformities, and harness for binding. 	
		Check for visible signs of damage (dents, cracks, deformation) of the LH or RH side air bag (Satellite) sensor.	
		3. Install the LH or RH side air bag (Satellite) sensor to check fit.	
		If no damage is found, reinstall the LH or RH side sir bag (Satellite) sensor with new nuts.	
		5. If damaged—REPLACE the LH or RH side air bag (Satellite) sensor with new nuts.	
Diagnosis sensor unit	REPLACE the diag-	1. Check case and bracket for dents, cracks or deformities.	
	nosis sensor unit with the new bolts.	2. Check connectors for damage, and terminals for deformities.	
		If no damage is found, reinstall the diagnosis sensor unit with new bolts and ground bolt.	
		4. If damaged—REPLACE the diagnosis sensor unit with new bolts and ground bolt.	
Seat belt pre-ten- sioner assembly		t can be extended smoothly. of be extended smoothly,	
	- Check for deformities of the center pillar inner.		
	- If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly.		
	2. Remove the seat belt pre-tensioner assembly on the collision side. Check harness cover and connectors for damage, terminals for deformities, and harness for binding.		
	3. Check for visible signs of damage (dents, cracks, deformation) of the seat belt pre-tensioner assembly.		
	4. Check seat belt adjuster for damage.		
	5. If no damage is foun	d, reinstall the seat belt pre-tensioner assembly.	
	_	CE the seat belt pre-tensioner assembly with new bolts. sioner assembly must be deployed before disposal.	

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Part	Front side air bag and side curtain air bag is activated	Front side air bag and side curtain air bag is NOT activated	
Seat with front side	REPLACE all parts of front seatback (including front seat- back frame)	1. Visually check the seat on the collision side.	
air bag		Remove the seat on the collision side and check the following for damage and deformities.	
back frame)		 Harness, connectors and terminals 	
		 Frame and recliner (for front and rear seat), and also adjuster and slides (for front seat) 	
		3. If no damage is found, reinstall the seat.	
		4. If damaged—REPLACE the damaged seat parts using new bolts.	
Center inner pillar	1. Check the center inner pillar on the collision side for damage (dents, cracks, deformation).		
	2. If damaged—REPAIR the center inner pillar.		
Trim/headlining	1. Check for visible signs of damage (dents, cracks, deformation) of the interior trim on the collision side.		
	2. If damaged—REPLACE the damaged trim parts.		