## **RESTRAINT SYSTEM**

SECTION **HS** 

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Bag Module

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CONTENTS		
PRECAUTION	Removal — Front Passenger Air Bag Mod Installation — Air Bag Module and Spiral Cable —	
Front Seat Belt	Module Disposal of Air Bag Module and Seat Belt Pre-tensioner.	
Precautions for SRS "Air Bag" and "Seat Belt Pre-tensioner" Service	TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)	
Special Service Tools	Wiring Diagram — SRS — Schematic Sell-diagnosis	
SRS Component Parts Location	Diagnostic Procedure 1 Diagnostic Procedure 2	
Removal and Installation — Diagnosis Sensor Unit and Seat Belt Pre-tensioner	Diagnostic Procedure 3	

When you read wiring diagrams:

• Read GI section, "HOW TO READ WIRING DIAGRAMS"

• See EL section, "POWER SUPPLY ROUTING" for power distribution circuit. When you perform trouble diagnoses, read GI section, "HOW TO FOLLOW FLOW CHART IN TROUBLE DIAGNOSES" and "HOW TO PERFORM EFFICIENT DIAGNOSIS FOR AN ELECTRICAL INCIDENT"

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

The Supplemental Restraint System "Air Bag" and "Seat Belt Pre-tensioner", used along with a seat belt, help to reduce the risk or severity of injury to the driver and front passenger in a frontal collision. The Supplemental Restraint System consists of air bag modules (located in the center of the steering wheel and on the instrument panel on the passenger side), seat belt pre-tensioners, a diagnosis sensor unit, warning lamp, wiring harness and spiral cable

#### WARNING:

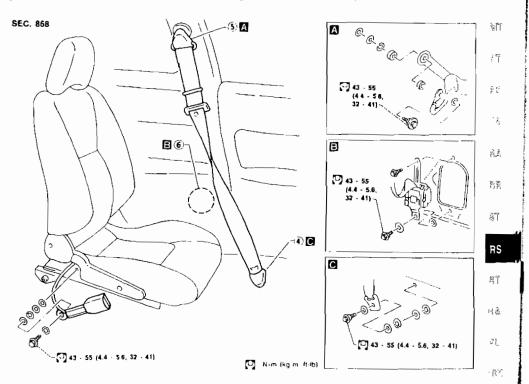
- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
  injury caused by unintentional activation of the system.
- All SRS air bag electrical wiring harnesses and connectors are covered with yellow outer insulation. Do not use electrical test equipment on any circuit related to the SRS.

### SEAT BELTS

#### CAUTION:

•	Replace anchor bolts if they are deformed or worn out.	) <sup>2</sup>
•	Never oil tongue and buckle. If any component of seat belt assembly is questionable, do not repair. Replace as seat belt assembly. If webbing is cut, frayed, or damaged, replace seat belt assembly.	
•	When replacing seat belt assembly, use a genuine seat belt assembly. After any collision, inspect all seat belt assemblies, including retractors and other attached hard- wares (i.e., guide rail set).	금백 LS
1	Front Seat Belt Remove rear seat. Refer to "SEAT" in BT section for details.	

- 2 Remove rear pillar lower garnish. Refer to "INTERIOR TRIM" in BT section for details.
- Disconnect seat belt pre-tensioner connector. (For Europe model)
- (4) Remove floor anchor cover and the anchor bolt.
- (5) Remove pillar anchor cover and the anchor bolt.
- Bemove the screw and the anchor bolt securing front seat belt assembly



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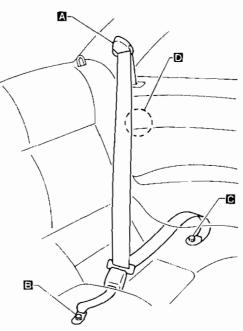
### SEAT BELTS

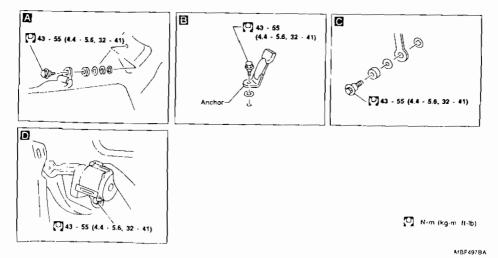
#### **Rear Seat Belt**

- 1. Remove rear seat Refer to "SEAT" in BT section for details
- 2. Remove rear pillar lower garnish. Refer to "INTERIOR TRIM" in BT section for details.
- 3. Remove each anchor bolt

SEC. 869

4. Remove the anchor bolt securing rear seat belt assembly.





### Precautions for SRS "Air Bag" and "Seat Belt Pre-tensioner" Service

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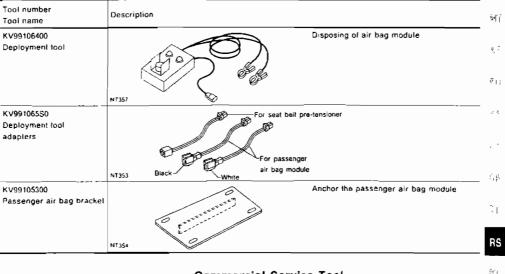
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Do not use a circuit tester to check SRS circuits.

•	Before servicing the SRS, turn ignition switch "OFF", disconnect battery ground cable and wait for at least 10 minutes.	:5°
	For approximately ten 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 ten 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
- attempt to turn steering wheel or column after removal of steering gear.
  Handle air bag module carefully. Always place it with the pad side facing upward.
- Handle air bag module carefully. Always place it with the pad side facing upward.
   After removing any SRS parts, discard old bolts and replace with new ones. Conduct self-diagnosis to check entire SRS for proper function.
- · After air bag inflates, the front instrument panel assembly should be replaced



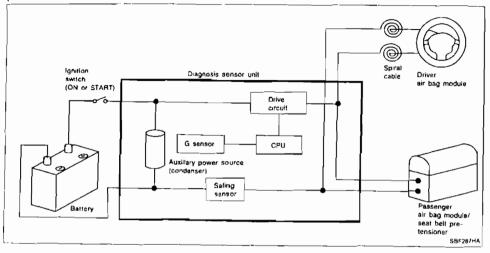
#### **Special Service Tools**

#### **Commercial Service Tool**

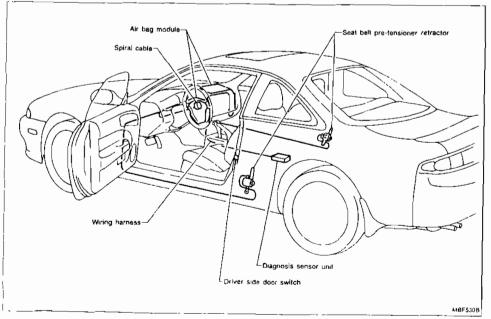
Tool name	Description		
Special torx bit		Use for special bolts [TAMPER RESISTANT TORX (Size T50)]	
		a: 3.5 (0.138) dia.	£1
		b: B.5 - B.6 (0.335 - 0.339) dia.	
	a HEFT	c: approx. 10 (0.39) sq.	- 1
	1 1 NT361	Unit mm (in)	

### Description

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







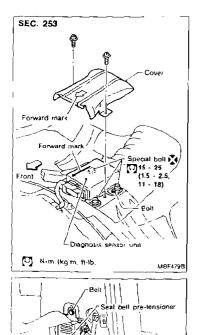


Ma	aintenance Items	
1.	bags) After turning ignition key to "ON" or "START" position, "AIR BAG" warning lamp illuminates for about 7 seconds	\ <b>Ĝ</b> [
	The "AIR BAG" warning lamp will go out after about 7 seconds, if no malfunction is detected. When a warning lamp flashes, check and correct cause of	ŵ 4
	the problem	문역
	Visually check SRS components Diagnosis sensor unit — Airbag	Ŀ
•	Check case and bracket for dents, cracks or deformities. Check connectors for damage, and terminals for deformi- ties.	35
(2)	Main harness and air bag harness	<u></u>
•	Check connectors for poor connections Check harnesses for binding, connectors for damage, and terminals for deformities.	ı i
	Spiral cable Visually check lock (engagement) pins and combination	미
•	switch for damage Check connectors, flat cable and protective tape for dam- age.	÷.,
•	Check steering wheel for noise, binding or difficult opera- tion.	51:
(4) ●	Air bag module and steering wheel Remove air bag module from steering wheel or instrument panel. Check harness cover and connectors for damage,	2
•	terminals for deformities, and harness for binding. Install driver side air bag module to steering wheel to	1.7
•	check fit or alignment with the wheel. Check steering wheel for excessive free play. Install passenger side air bag module to instrument panel	22,
	to check fit or alignment with the instrument panel. UTION:	1
Re	place previously used screws with new ones.	
(5) ●	Seat belt pre-tensioner Check harness cover and connectors for damage, termi-	RS
•	nals for deformities, and harness for binding. Check belts for damage and anchors for loose mounting. Check retractor for smooth operation.	:. ·
•	Perform self-diagnosis for seat belt pre-tensioner using circuit tester Refer to "Self-diagnosis" for details. (RS-21)	177

#### Removal and Installation — Diagnosis Sensor Unit and Seat Belt Pre-tensioner

#### CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect battery ground cable and wait for at least 10 minutes.
- The special bolts are coated with bonding agent. Discard old ones after removal; replace with new ones.
- Check diagnosis sensor unit for proper installation.
- Check diagnosis sensor unit to ensure they are free of deformities, dents, cracks or rust. If they show
  any visible signs of damage, replace them with new ones.
- Check diagnosis sensor unit brackets to ensure they are free of deformities or rust.
- Do not attempt to disassemble seat belt pre-tensioner.
- Do not drop or impact seat bell pre-tensioner. If any portion is damaged, replace the seat belt pretensioner.
- Do not expose seat belt pre-tensioner to temperatures exceeding 80°C (176°F).
- Whenever seat belts (equipped with pre-tensioner) are moved, ensure that cylinder faces down. Do
  not hold cylinder.



Connector

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5.6 kg m 32 41 H-lb)

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#### **REMOVAL OF DIAGNOSIS SENSOR UNIT**

- Disconnect driver and passenger air bag module connectors Also, disconnect seat belt pre-tensioner connector
- Remove rear seat assembly. Refer to "Rear Seat" in BT section.
- 3 Remove cover.
- 4. Disconnect diagnosis sensor unit connector.
- Remove bolt and also remove special bolts using the TAMPER RESISTANT TORX (Size T50), from diagnosis sensor unit.

Then remove the diagnosis sensor unit

#### NOTE:

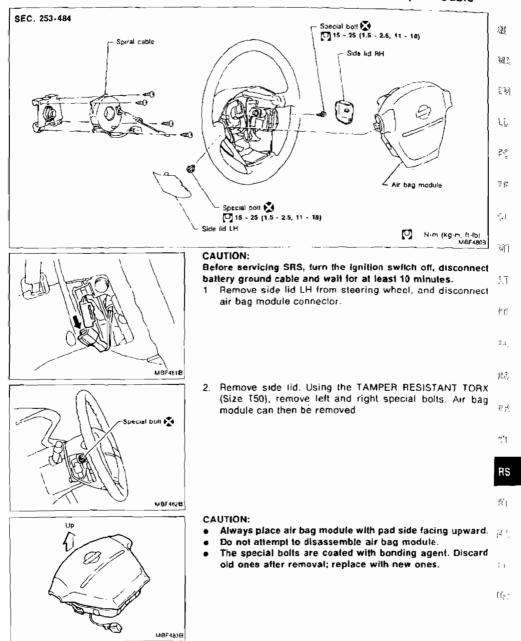
• To install, reverse the removal procedure sequence.

#### **REMOVAL OF SEAT BELT PRE-TENSIONER**

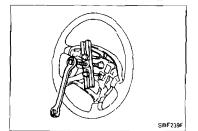
For removal of seat belt pre-tensioner, refer to "Front Seat Belt" for details. (RS-3)

- NOTE:
- To install, reverse the removal procedure sequence.
- After replacement, perform self-diagnosis for seat belt pretensioner using circuit tester. Refer to "Self-diagnosis" for details. (RS-21)

## Removal — Air Bag Module and Spiral Cable







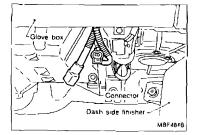
# Removal — Air Bag Module and Spiral Cable (Cont'd)

- Do not drop or impact air bag module. If any portion is deformed or cracked, replace the module.
- Do not expose the air bag module to temperatures exceeding 93°C (199°F).
- Do not allow oil, grease or water to come in contact with the air bag module.
- 3. Set steering wheel in the neutral position.
- 4. Disconnect horn connector and remove nuts
- Using steering wheel puller, remove steering wheel Be careful not to over-tighten puller bolt on steering wheel.
- 6. Remove steering column cover.
- 7. Disconnect connector and remove the four screws. The spiral cable can then be removed.

# Removal — Front Passenger Air Bag Module CAUTION:

## Before servicing SRS, turn the ignifion switch off, disconnect battery ground cable and walt for at least 10 minutes.

1. Remove connector bracket from air bag module and disconnect air bag module connector.

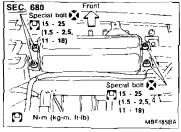


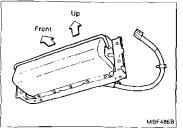
2. Remove instrument panel.

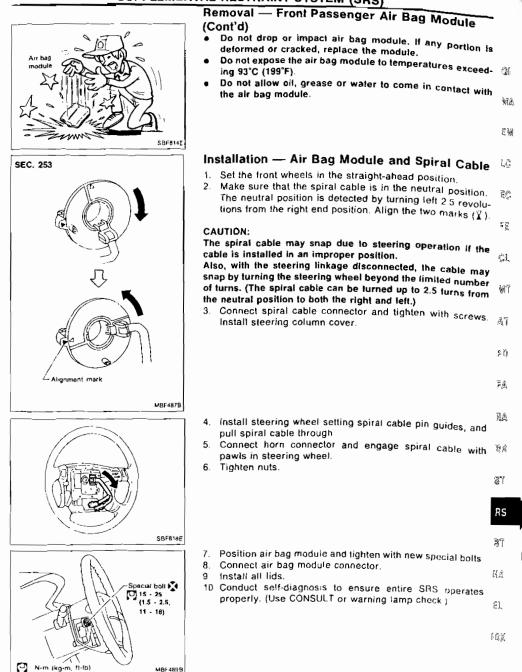
- Remove the special bolts from left and right sides of front passenger air bag module. Then remove the air bag module from the steering member.
- Air bag module is heavy and should be supported using both hands during removal.

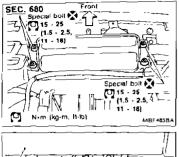
#### CAUTION:

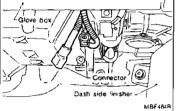
- Always place air bag module with pad side facing upward.
- Do not attempt to disassemble air bag module.
- The special bolts are coated with bonding agent. Discard old ones after removal; replace with new ones.









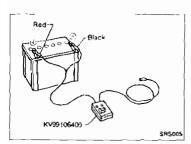


#### Installation — Front Passenger Air Bag Module

- Install front passenger air bag module on steering member.
- Ensure harness is not caught between rear of air bag module and steering member.
- 2. Install instrument panel
- 3. Connect air bag module connector to body harness connector.
- 4. Install air bag module connector on connector bracket.
- 5 Install connector bracket on air bag module.

## Disposal of Air Bag Module and Seat Belt Pre-lensioner

- Make sure to deactivate air bag modules and seat belt pre-tensioners before disposing of them. Also, before disposing of a vehicle equipped with an SRS system, deactivate air bag modules and seat belt pre-tensioners. If such systems have already been deployed due to an accident, dispose of as indicated in "DISPOSING 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
- When deploying the air bag module and seat belt pre-tensioner, stand at least 5 m (16 ft) away from the deployment component
- Due to heat, do not touch air bag module for at least 30 minutes after deployment. Also do not touch seat belt pre-tensioner for at least 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 a deployed air bag module and seat belt pre-tensioner.
- Wash your hands clean after finishing work.



#### Disposal of Air Bag Module and Seat Belt Pre-tensioner (Cont'd) CHECKING DEPLOYMENT TOOL

#### Connecting to battery

- Place vehicle outdoors with at least 6 m (20 ft) of open space on all sides.
- Use a voltmeter to make sure the vehicle battery is fully MA charged.

#### CAUTION:

#### The battery must show voltage of 9.6V 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 10 to 12 minutes after the vehicle battery is disconnected before proceeding.
- Connect red clip of deployment tool to battery positive ter- 20 minal and black clip to negative terminal.
   CAUTION:

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.  $\Im$ 

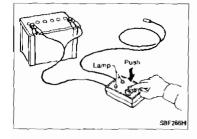
#### Deployment tool check

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 CONNFC- TOR VOLTAGE"	Right side lamp, green* "DEPLOYMENT LOOL POWER"	5A)
OFF	OFF	ON	
ON	ON	ON	ଗ୍ୱାଲି

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



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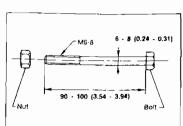
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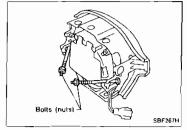
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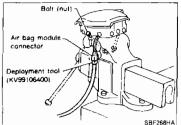
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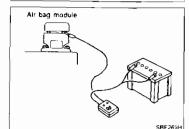
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Wire Passenger ar bag bracket (Kv99105300)

SBE270HA

## Disposal of Air Bag Module and Seat Belt Pre-tensioner (Cont'd)

#### DEPLOYMENT PROCEDURES FOR AIR BAG MODULE AS A UNIT

Deploying air bag module while it is mounted in vehicle may damage vehicle. Deploy air bag module as a unit except when disposing of vehicle.

Anchor air bag module in a vise secured to a firm foundation during deployment

#### Deployment of driver's air bag module as a unit

- Prepare two sets of nuts and bolts (see figure at left). These bolts are required to secure driver's air bag module to the vise.
- 2. Install one set of nuts and bolts to each side of the air bag module.

#### CAUTION:

Make sure to install two bolts and nuts on each side.

3. Firmly place two nuts (secured to air bag module) in the vise.

#### CAUTION:

## Ensure these two nuts are equally placed in the vise. Never finish the installation with just one nut.

- Connect deployment lool (SST: KV99106400) to air bag module connector.
- 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
- 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:

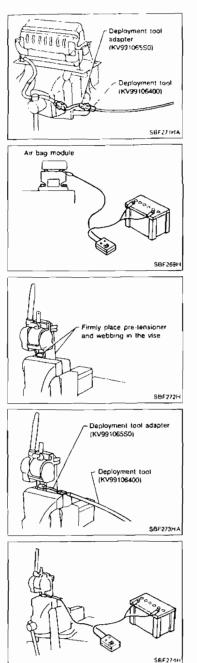
When deploying the air bag module, stand at least 5 m (16 ft) away from the air bag module.

#### Deployment of passenger air bag module as a unit

1 Using wire, secure air bag module to passenger air bag bracket (SST. KV99105300) at two places.

#### CAUTION:

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



#### Disposal of Air Bag Module and Seat Belt Pre-tensioner (Cont'd)

- 2. Firmly anchor passenger air bag bracket in a vise.
- 3 Connect deployment tool adapter (SST: KV991065S0) to deployment tool (SST: KV99106400) connector and connector on either side of air bag module.

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- 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 power", should glow green, not red.
- 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 air bag module, stand at least 5 m (16 ft) []] away from the air bag module. CAUTION:

Always activate one inflator at a time.

#### Deployment of seal belt pre-tensioner as a unit 1. Firmly anchor seat belt pre-tensioner in a vise

- CAUTION: Ensure bracket and webbing are placed in the vise.
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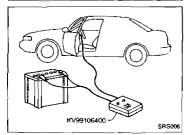
- 63
- Connect deployment tool adapter (SST. KV991065S0) to deployment tool (SST: KV99106400) connector and seat belt pre-tensioner connector.

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- 3 Connect red clip of deployment tool to battery positive lerminal and black clip to negative terminal.
- The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
- Press the button on the deployment tool. The left side lamp rillion on the tool, marked "air bag connector voltage", will illuminate and the seat belt pre-tensioner will deploy.
   CAUTION: (R):

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





#### Disposal of Air Bag Module and Seat Belt Pre-tensioner (Cont'd) DEPLOYMENT OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER WHILE MOUNTED IN VEHICLE

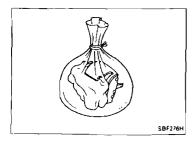
When disposing of a vehicle, deploy air bag modules and seat belt pre-tensioners while they are mounted in vehicle. **CAUTION:** 

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

- 1. Disconnect battery ground cable and wait 10 minutes
- 2. Disconnect air bag modules and seat belt pre-tensioners connector.
- 3 Connect deployment tool connector (SST: KV99106400) to air bag module or seat belt pre-tensioner. For front passenger air bag module and seat belt pre-

tensioner, attach deployment tool adapters (SST: KV991065S0) to the tool connector.

- 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.
- 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.
- After deployment, remove them from vehicle and seat them up in plastic bags, then dispose of them.

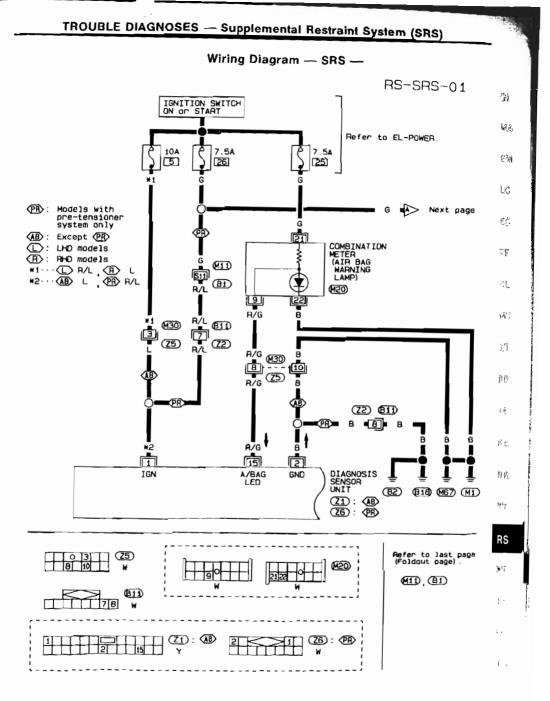


## DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Deployed air bag modules and seat belt pre-tensioners 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. CAUTION:

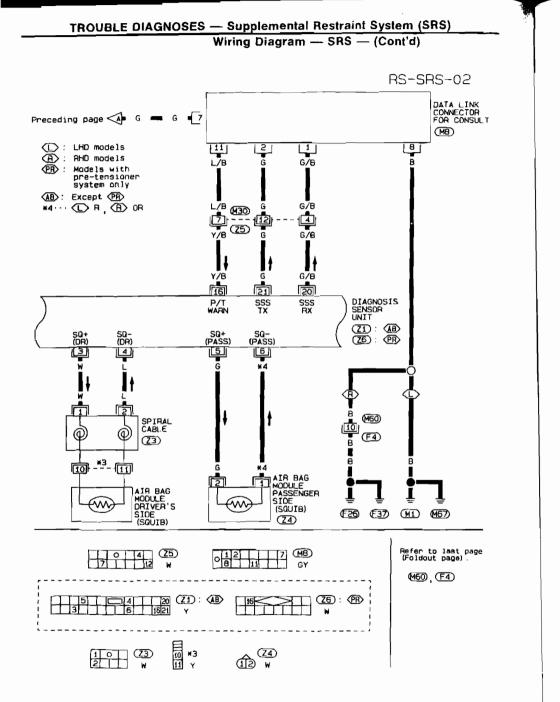
#### Never apply water to a deployed air bag module and seat belt pre-tensioner.

- Be sure to wear gloves when handling a deployed air bag
  module and seat belt pre-tensioner.
- No poisonous gas is produced upon air bag module deployment. However, be careful not to inhale gas since it irritates 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 can not be re-used.
- Wash your hands clean after finishing work.

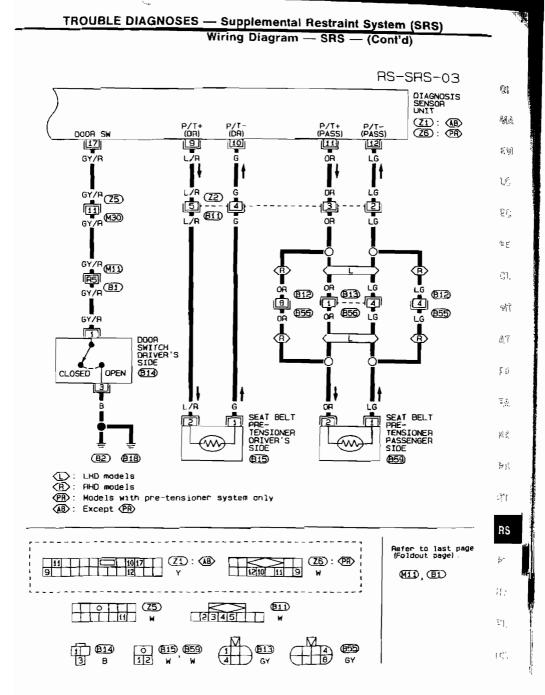


**RS-17** 

SRS007



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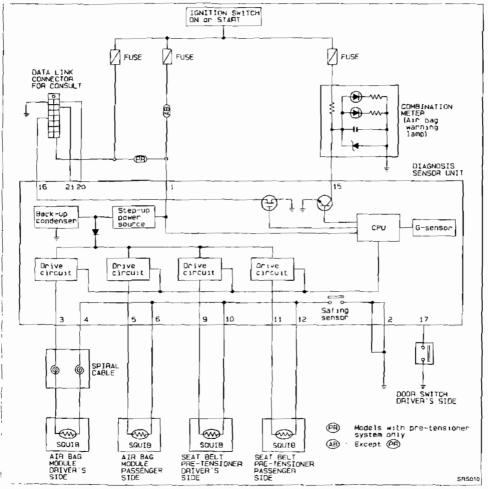
**RS-19** 

SRS009

#### Schematic

#### CAUTION:

- Do not use a circuit tester to check SRS "Air Bag" harness connectors. The wiring harness and connectors have yellow outer insulation for easy identification.
- Do not attempt to repair, splice or modify the SRS "Air Bag" wiring harness. If the harness is damaged, replace it with a new one.
- Keep ground portion clean.



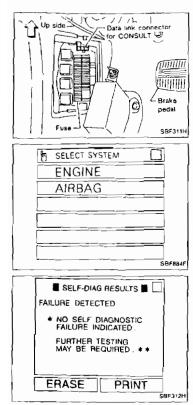
## TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

## Self-diagnosis

The air bag and seat belt pre-tensioner can be put under self-diagnosis by the following methods.

			USING CONSULT	USING "AIR BAG" WARNING LAMP
		RS-21	RS-22	RS-24
ade	Seat belt pre-tensioner (Standard equipment)	0		
Far Europe	Equipped with driver air bag			<u> </u>
For	Equipped with driver air bag and passenger air bag			0
ê ç	Equipped with driver air bag		ت ت	
Except for Europe	Equipped with driver air bag and passenger air bag			0
For A	ustralia		0	
	isually check the oscillation of circuit te	ester needle.		
	sually check the oscillation of circuit te	ester needle.		
	ormal	ester needle.	No problem The seat belt pre order	etensioner is in good
	isually check the oscillation of circuit te		The seat belt pre	n-tensioner is in good
( <u>j</u> ) No	ormal		The seat belt pre	-tensioner is in good
( <u>1</u> ) No	ormal		the seal belt pre order	
( <u>1</u> ) No	ormal		The seat belt pre- order      SR5000      Seat belt pre-te     or shorted to s     circuil, or short	ensioner circuit is open ome power supply ted to ground
( <u>1</u> ) No	alfunction (including when seat belt pre-tension		The seal belt pre- order SRS003 Seal belt pre-te or shorted to succircuit, or short 1 Visually check tions 2 Replace seal b	ensioner circuit is open ome power supply led to ground wiring harness connec- bell assembly (Belore
( <u>1</u> ) No	alfunction (including when seat belt pre-tension	er is deployed)	The seal belt pre- order SRS003 Seal belt pre-te or shorted to succircuit, or short 1 Visually check tions 2 Replace seal b	ensioner circuit is open ome power supply led to ground wiring harness ronnec- bell assembly (Belore bust be deactivated) osis sensor unit

### TROUBLE DIAGNOSES — Supplemental Restraint System (SRS) Self-diagnosis (Cont'd)



## USING CONSULT

The self-diagnosis results can be read by CONSULT, as foltows:

- Connect "CONSULT" to data link connector for CONSULT. (Data link connector for CONSULT is located in left or right dash side panel.)
- Turn ignition switch to "ON" (When CONSULT is connected, the "AIR BAG" warning lamp will be turned to present diagnosis mode.)
- 3. Touch "START" to operate "CONSULT"
- 4. Touch "AIR BAG" to choose air bag system.
- 5 Touch "SELF DIAG RESULTS" to read self-diagnosis results.
- 6. Problem codes are displayed on "SELF DIAG RESULTS".
- When "PRINT" is pressed, information displayed on "SELF DIAG RESULTS" is printed out

#### WARNING:

- While CONSULT is displaying this "SELF-DIAG RESULTS" information, do not disconnect CONSULT from data link connector.
- When finishing diagnosis, make sure to change CONSULT display to SELECT SYSTEM mode by using BACK KEY.
- After repairing malfunctioning parts, press "ERASE" to clear self-diagnosis results.
- "ERASE" function requires selecting "ERASE", and completing step 9.
- Push BACK KEY of CONSULT until SELECT SYSTEM mode appears to make "SELF-DIAGNOSIS" user mode.
- If malfunctioning parts are not completely repaired, "AIR BAG" warning lamp will blink every 0.5 seconds.
- 10. Push the power off switch
- 11 Turn off ignition switch, disconnect CONSULT.
- Turn ignition switch to "ON" "AIR BAG" warning lamp should come on for about 7 seconds and then go off.

## TROUBLE DIAGNOSES — Supplemental Restraint System (SRS) Self-diagnosis (Cont'd)

### Self-diagnosis results

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Diagnostic item	Explanation/Possible causes	Repair order * Recheck SRS using CONSULT at each replacement
NO SELF DIAGNOSTIC FAILURE INDICATED	Normal SRS system is in good order	
AIRBAG MODULE [OPEN]	Driver's air bag module circuit is open (including the spiral cable)	1 Visually check wiring harness connections 2 Replace spiral cable
AIRBAG MODULE [VB-SHORT]	<ul> <li>Driver's air bag module circuit is shorted to some power supply circuit (including the spiral cable)</li> </ul>	<ol> <li>Replace driver's air bag module (Before disposing of it, it must be deployed)</li> <li>Replace diagnosis sensor unit</li> </ol>
AIRBAG MODULE [GND-SHORT]	• Driver's air bag module circuit is shorted to ground (including the spiral cable).	5 Replace diagnosis sensor unit 5 Replace air bag harness 6 Replace main harness
AIRBAG MODULE (SHORT)	Driver's air bag module circuits are shorted to each other	
ASSIST A/B MODULE'1 (OPEN]	Front passenger air bag module circuil is     open	1 Visually check wiring harness connections 2. Replace front passenger air bag module
ASSIST A/B MODULE'1 (VB-SHORT)	Front passenger air bag module circuit is shorted to some power supply circuit	(Before disposal of it, it must be deployed) 3 Replace diagnosis sensor unit
ASSIST A/B MODULE 1 [GND-SHORT]	Front passenger air bag module circuit (s shorted to ground.	4 Replace air bag harness 5 Replace main harness
ASSIST A/B MODULE*1	Front passenger air bag module circuits are shorted to each other	
CONTROL UNIT	Diagnosis sensor unit is out of order	<ol> <li>Visually check wiring harness connections</li> <li>Replace diagnosis sensor unit.</li> <li>Replace air bag harness</li> <li>Replace main harness</li> </ol>
NDEFINITE FAILURES (AIR BAG)	<ul> <li>A problem which cannot be specified occurs because more than two parts are out of order</li> </ul>	<ol> <li>Visually check wiring harness connections</li> <li>Replace diagnosis sensor unit</li> <li>Aeplace spiral cable and air bag modules</li> <li>Replace air bag harness</li> <li>Replace main harness</li> </ol>

1. For Australia model only

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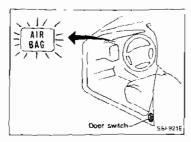
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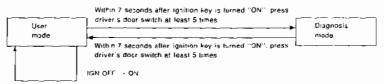
### **TROUBLE DIAGNOSES** — Supplemental Restraint System (SRS)



Self-diagnosis (Cont'd) USING "AIR BAG" WARNING LAMP Air bag solf-diagnosis results can be read by using the 'AIR BAG" warning lamp. The "Air bag" warning lamp operates as shown below: WARNING: When the "AIR BAG" warning lamp is flashing, compare the

flash time to the charl below.

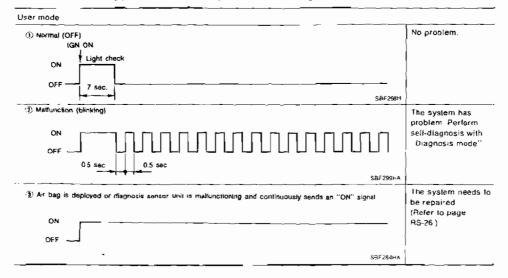
#### How to alternate self-diagnosis



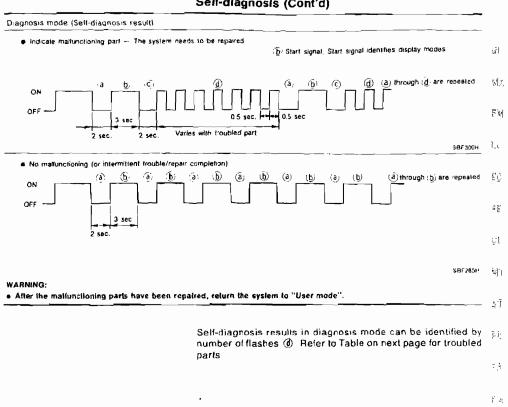
Problem codes are displayed in diagnosis mode (self-diagnosis results).

#### Warning lamp indication

- After repairing malfunctioning part, use driver's door switch to return the system to user mode. This . will clear self-diagnosis results from memory.
- If a malfunctioning part is not completely repaired, self-diagnosis results will not be cleared.



### TROUBLE DIAGNOSES — Supplemental Restraint System (SRS) Self-diagnosis (Cont'd)



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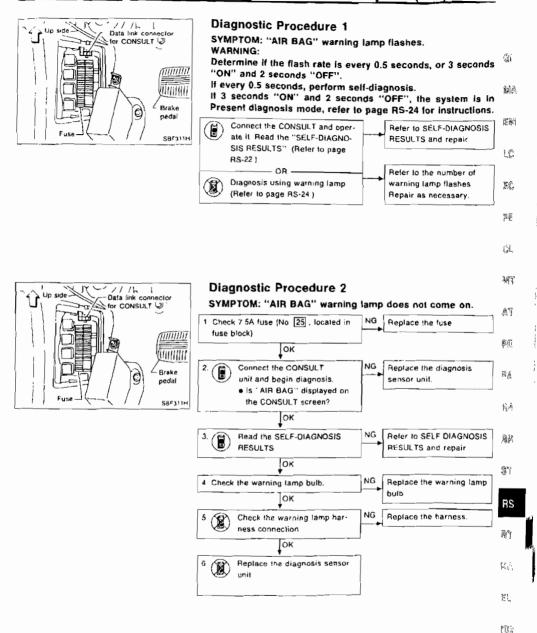
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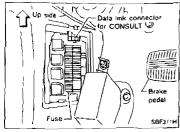
## TROUBLE DIAGNOSES — Supplemental Restraint System (SRS) Self-diagnosis (Cont'd)

## Warning lamp flashing times and repair

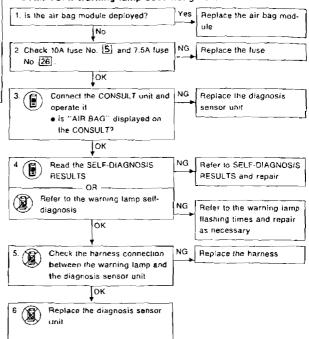
Warning Iamp	Flash code (d) (# of flashes)	Explanation/Possible causes	Repair order
	0	Normal SRS "Air Bag" is in good     order.	_
	2	Oriver's air bag module circuit is out of order.	<ol> <li>Visually check wiring harness connections</li> <li>Replace spiral cable</li> <li>Replace driver's air bag module (Before disposal of it, it must be deployed.)</li> <li>Replace diagnosis sensor unit</li> <li>Replace air bag harness</li> <li>Replace main harness</li> </ol>
due builten	7	Diagnosis sensor unit is out of order	<ol> <li>Visually check wiring harness connections</li> <li>Replace diagnosis sensor unit</li> <li>Replace air bag harness</li> <li>Replace main harness</li> </ol>
	8	• Front passenger air bag module circuit is out of order	<ol> <li>Visually check wiring harness connections</li> <li>Replace front passenger air bag module (Before disposal, it must be deployed.)</li> <li>Replace diagnosis sensor unit</li> <li>Replace air bag harness</li> <li>Replace main harness</li> </ol>
	9	More than two parts groups are out of order	<ol> <li>Visually check wiring harness connections</li> <li>Replace diagnosis sensor unit</li> <li>Replace all sensors, spiral cable and air bag module</li> <li>Replace air bag harness</li> <li>Replace main harness</li> </ol>



## TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)



#### Diagnostic Procedure 3 SYMPTOM: Warning lamp does not go off.



## TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

## **Collision Diagnosis**

To repair the SRS, perform the following steps	
When air bag deploys in a collision:	ŝ
<ol> <li>Replace the diagnosis sensor unit</li> </ol>	1.221
(2) Remove the air bag modules and seat belt pre-tensioners	
(g) Check the SRS components using the table shown below	MA
<ul> <li>Replace any SRS components showing visible signs of damage (dents, cracks, deformation).</li> </ul>	
(a) Conduct self-diagnosis. Refer to "Self-diagnosis" for details (RS-21). Ensure the remainder of the	<b>~</b> 40
SRS is operating properly.	(∳ا£
(5) Install new air bag modules.	
⑥ Conduct self-diagnosis again.	LĈ
When air bag does not deploy in a collision:	-9
(i) Check the SRS components using the table shown below:	
Replace any SRS components showing visible signs of damage (dents, cracks, deformation).	ξċ
(2) Conduct self-diagnosis Refer to "Self-diagnosis" for details (RS-21) Ensure entire SRS operates	

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## property SRS inspection

Part	Air bag deployed	Air bag did NOT deploy
Air bag module	REPLACE	1 Remove air bag module. Check harness cover and connectors for damage,
(driver and passen-	install with new	terminals for deformities, and harness for binding
ger side)	bolls.	2-1 Install driver air bag module into the steering wheel to check fit and alignment with the wheel.
		2-2 Install passenger air bag module into the instrument panel to check fit
		with the instrument panel.
		3 No damage found, reinstall with new bolts
		4 II damagedREPLACE Air bag must be deployed before discarding.
Instrument panel	REPLACE	1 Check instrument panel for bending, deformities, or cracks.
	Install with new	2 If no damage is found, reinstall with new bolts
	bolts.	3. If damaged—REPLACE
Seat belt pre-ten	REPLACE	1 Remove seat belt pre-tensioners
sioner assembly	Instal! with new	Check harness cover and connectors for damage, terminals for deformities,
	bolls	and harness for binding
	ĺ	2 Check belts for damage and anchors for loose mounting.
		3 Check retractor for smooth operation
		4 If no damage is found, reinstall with new bolts
		5 II damaged—REPLACE
Diagnosis sensor	REPLACE	1 Check case and bracket for dents, cracks or deformities.
unit	Install with new	2 Check connectors for damage, and terminals for deformilies
	bolls	3 U no damage is found, reinstall with new bolts.
		4 If damaged—REPLACE
Steering wheel		ill into steering wheel) and connectors for damage, and terminals for deformi-
	lies	
	2 Install air bag mod	dule to check fit or alignment with steering wheel
	3 Check steering wh	ieel for excessive free play
	4 If no damage is to	und, reinstall with new bolts
	5 II damaged—-REPL	
Spiral cable		k (engagement) pins and combination switch for damage
		flai cable and protective tape for damage
	-	eel for noise, binding or heavy operation
		und, reinstall with new bolls
	5 If damaged—REPL	
Harness and Con-		for poor connection, damage, and terminals for deformities.
neclars		binding, chafing, cuts, or deformities
	3 If no damage is fo	CE damaged section of harness. Do not attempt to repair, splice or modify any