RESTRAINT SYSTEM

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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".

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PRECAUTION

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 INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses are covered with yellow insulation either just before the harness connectors or for the complete harness, for easy identification.

SEAT BELTS

CAUTION:

- Before removing the seat belt pre-tensioner assembly, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- After replacing or reinstalling seat belt pre-tensioner assembly, or reconnecting seat belt pre-tensioner connector, check the system function. Refer to "Self-diagnosis" (RS-23) for details.
- Do not disassemble buckle or seat belt assembly.
- Replace anchor bolts if they are deformed or worn out.
- Never oil tongue and buckle.
- If any component of seat belt assembly is questionable, do not repair. Replace the whole seat belt assembly.
- If webbing is cut, frayed, or damaged, replace seat belt assembly.
- When replacing seat belt assembly, use a genuine seat belt assembly.
- After any collision, inspect all seat belt assemblies, including retractors and other attached hardwares (i.e., guide rail set).

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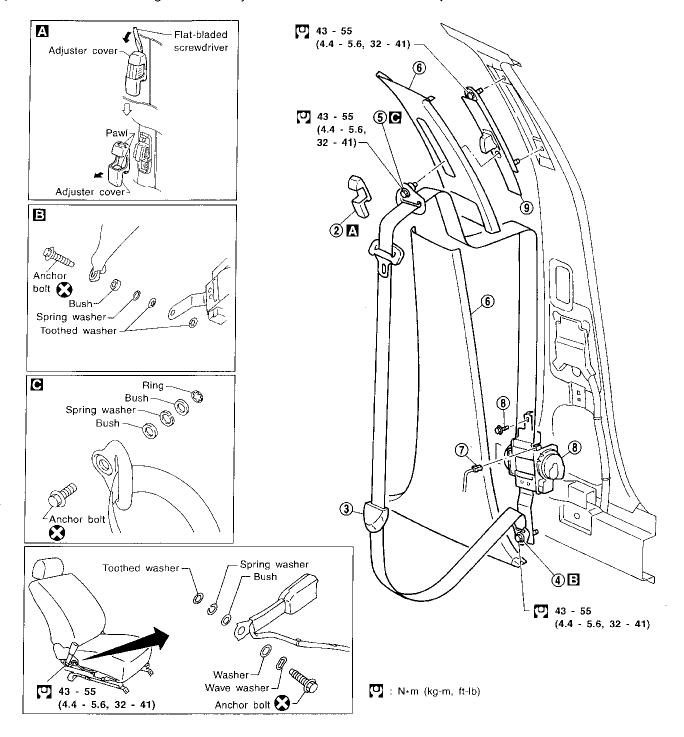
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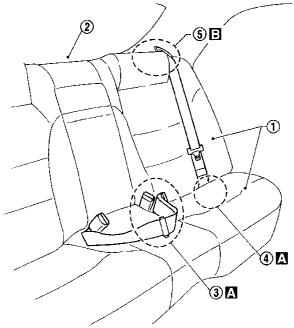
Front Seat Belt

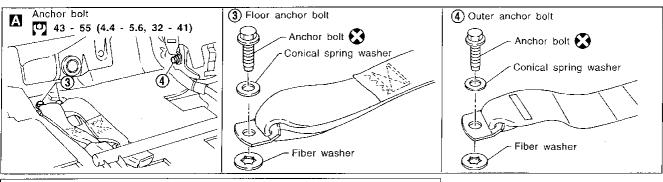
- (1) Remove front seat. Refer to "SEAT" in BT section for details.
- ② Remove adjuster cover.
- 3 Slide the anchor cover.
- (4) Remove outer anchor bolt.
- 5 Remove shoulder anchor bolt.
- (6) Remove center pillar upper and lower garnish. Refer to "INTERIOR TRIM" in BT section for details.
- ① Disconnect seat belt pre-tensioner connector.
- ® Remove the bolt securing seat belt pre-tensioner retractor, then remove seat belt and seat belt pre-tensioner retractor.
- Remove bolt securing seat belt adjuster, then remove seat belt adjuster.

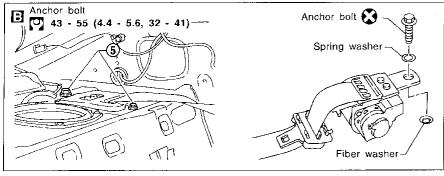


Rear Seat Belt

- ① Remove rear seat. Refer to "SEAT" in BT section for details.
- (2) Remove rear parcel shelf finisher. Refer to "INTERIOR TRIM" in BT section for details.
- (3) Remove floor anchor bolt.
- (4) Remove outer anchor bolt.
- (5) Remove bolt and anchor bolt securing rear seat belt retractor.







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

- Do not use a circuit tester 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 "Q" 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.
- 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.

Special Service Tools

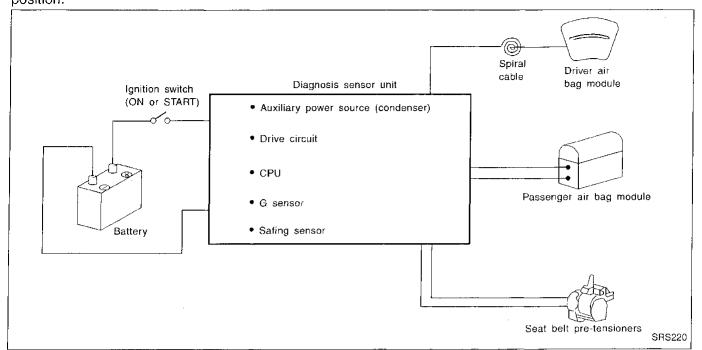
The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description	
KV991072S0 (J38381-KIT) Air bag deployment kit KV99106400 (J38381) Deployment tool	NT357	Disposing of air bag module
KV991065S0 (J38381-30) Deployment tool adapters	For seat belt pre-te	nsioner
KV99105300 (J41246) Air bag module bracket	NT354	Anchoring air bag module
HT61961000 and HT62152000 combined (J38219) *Special torx bit	NT361	Use for special bolts [TAMPER RESISTANT TORX (Size T50)] a: 3.5 (0.138) dia. b: 8.5 - 8.6 (0.335 - 0.339) dia. c: approx. 10 (0.39) sq. Unit: mm (in)

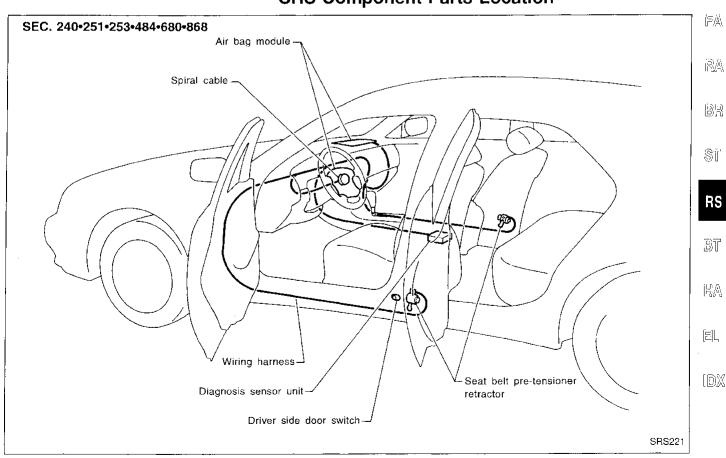
^{*:} Special tool or commercial equivalent

Description

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



SRS Component Parts Location



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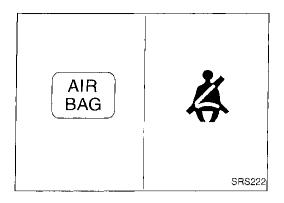
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Maintenance Items

CAUTION:

Do not use a circuit tester to check SRS circuit.

 Check operation of "AIR BAG" and "SEAT BELT" warning lamps

After turning ignition key to "ON" position, both warning lamps illuminate. The "AIR BAG" warning lamp will go off after about 7 seconds if no malfunction is detected. The "SEAT BELT" warning lamp will also go off after about 7 seconds after seat belt has been fastened and no malfunction is detected. (When seat belt has not been fastened, the warning lamp continues to illuminate until seat belt is fastened.)

If any of the following warning lamp conditions occur, immediately check the air bag or seat belt pre-tensioner system. Refer to RS-23 or RS-24 for details.

• The "AIR BAG" or "SEAT BELT" warning lamp does not illuminate when the ignition switch is turned "ON".

 The "AIR BAG" or "SEAT BELT" (with seat belt fastened) warning lamp does not go off about 7 seconds after the ignition switch is turned "ON".

 The "AIR BAG" or "SEAT BELT" (with seat belt fastened) warning lamp blinks about 7 seconds after the ignition switch is turned "ON".

2. Visually check SRS components

(1) Diagnosis sensor unit

- Check diagnosis sensor unit and bracket for dents, cracks or deformities.
- Check connectors for damage, and terminals for deformities.

(2) Air bag module and steering wheel

- Remove air bag module from steering wheel or instrument panel. Check harness cover and connectors for damage, terminals for deformities, and harness for binding.
- Install driver side air bag module to steering wheel to check fit or alignment with the wheel.

Check steering wheel for excessive free play.

- For dual air bag system, install passenger side air bag module to instrument panel to check fit or alignment with the instrument panel.
- (3) Spiral cable
- Check spiral cable for dents, cracks, or deformities.
- Check connectors and protective tape for damage.
- Check steering wheel for noise, binding or heavy operation.
- (4) Main harness and air bag harness.
- Check connectors for poor connections, damage, and terminals for deformities.
- Check harnesses for binding, chafing or cut.
- (5) Seat belt pre-tensioner
- Check harness cover and connectors for damage, terminals 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 seat belt warning lamp or CONSULT. Refer to "Self-diagnosis" for details. (RS-23)

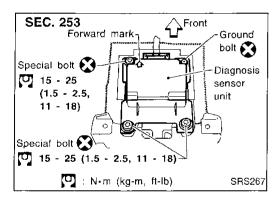
CAUTION:

Replace previously used special bolts, ground bolt and anchor bolt with new ones.

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

CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- The special bolts are coated with bonding agent while the other bolt is for ground. Do not use old bolts 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.
- Replace diagnosis sensor unit if it has been dropped or sustained an impact.
- After replacement of diagnosis sensor unit, check SRS function and perform self-diagnosis for SRS. Refer to "Self-diagnosis" for details. (RS-23)
- Do not attempt to disassemble seat belt pre-tensioner.
- Replace seat belt pre-tensioner if it has been dropped or sustained an impact.
- Do not expose seat belt pre-tensioner to temperatures exceeding 80°C (176°F).
- After replacement of seat belt pre-tensioner, check the system function for seat belt pre-tensioner.
 Refer to "Self-diagnosis" (RS-23) for details.



REMOVAL OF DIAGNOSIS SENSOR UNIT

- 1. Disconnect driver and passenger air bag module connectors. Also, disconnect seat belt pre-tensioner connector.
- Remove console box. Refer to "INSTRUMENT PANEL" in BT section.
- Disconnect diagnosis sensor unit connector.
- Remove ground 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.



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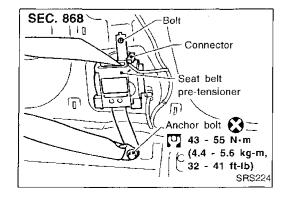
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REMOVAL OF SEAT BELT PRE-TENSIONER

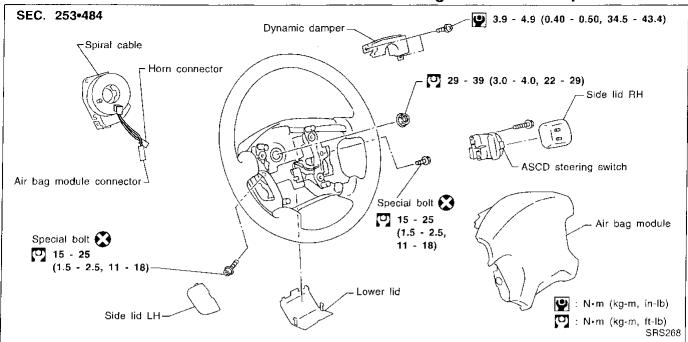
For removal of seat belt pre-tensioner, refer to "Front Seat Belt" for details. (RS-4)

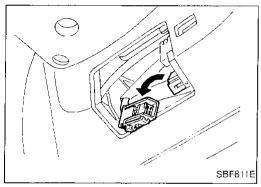
NOTE:

To install, reverse the removal procedure sequence.

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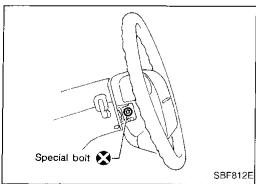
Removal — Air Bag Module and Spiral Cable



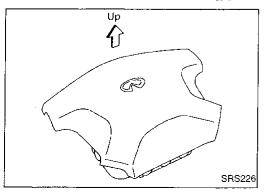


CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- Always work from the side of air bag module.
- Remove lower lid from steering wheel, and disconnect air bag module connector.



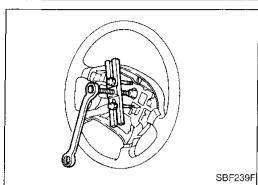
2. Remove side lid. Using the TAMPER RESISTANT TORX (Size T50), remove left and right special bolts. Air bag module can then be removed.



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





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

- Replace 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 air bag module.



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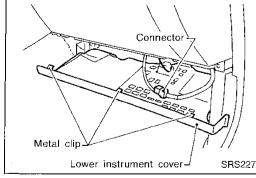
- Set steering wheel in the neutral position.
- Disconnect horn connector and remove nuts.
- Remove dynamic damper. Then using steering wheel puller, remove steering wheel. Be careful not to over-tighten puller bolt on steering wheel.

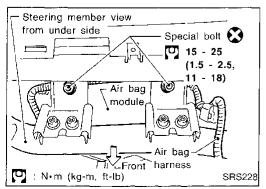


- Do not tap or bump the steering wheel.
- 6. Remove steering column cover.
- 7. Disconnect connector and remove the four screws. The spiral cable can then be removed.

CAUTION:

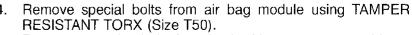
- Do not attempt to disassemble spiral cable.
- Do not apply lubricant to the spiral cable.





Removal — Front Passenger Air Bag Module CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- Always work from the side of or under air bag module.
- Remove lower instrument cover.
- Remove connector bracket from air bag module and disconnect inflator connector from body harness air bag connector.
- Remove glove box assembly. Refer to "INSTRUMENT PANEL" in BT section for details.



- 5. Remove mounting bolts from back of instrument assembly.
- Move air bag module upward, and remove it from instrument assembly.
- The air bag module is heavy and should be supported using both hands during removal.

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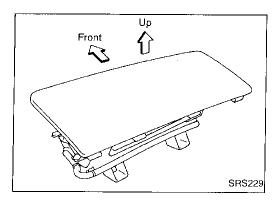
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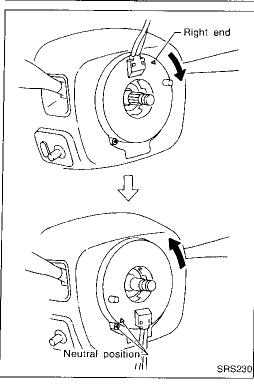
Removal — Front Passenger Air Bag Module (Cont'd)

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



- Replace 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 air bag module.
- After air bag inflates, the front instrument panel assembly should be replaced if damaged.

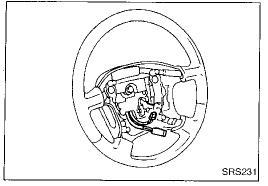


Installation — Air Bag Module and Spiral Cable

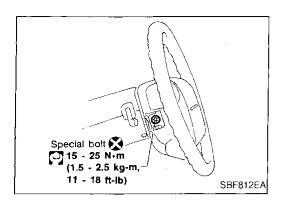
- 1. Set the front wheels in the straight-ahead position.
- 2. Make sure that the spiral cable is in the neutral position. The neutral position is detected by turning left about 2.5 revolutions from the right end position. Align the two marks (X).

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 up to about 2.5 turns from the neutral position to both the right and left.
- 3. Connect spiral cable connector and tighten with screws. Install steering column cover.



- 4. Install steering wheel setting spiral cable pin guides, and pull spiral cable through.
- 5. Connect horn connector and engage spiral cable with pawls in steering wheel. Move air bag module connector away from steering wheel lower lid opening.
- Tiahten nut.
 - [C]: 29 39 N·m (3.0 4.0 kg-m, 22 29 ft-lb)
- 7. Install dynamic damper.



Installation — Air Baq Module and Spiral Cable (Cont'd)

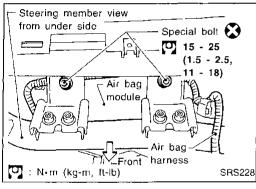
- Position air bag module and tighten with new special bolts.
- Always service the air bag module from the side.
- Connect air bag module connector.
- 10. Install all lids.

11. Conduct self-diagnosis, RS-23, to ensure entire SRS operatesproperly. (Use CONSULT or warning lamp check.) Before performing self-diagnosis, connect both battery cables.

12. Turn steering wheel to the left end and then to the right end fully to make sure that spiral cable is set in the neutral posi-

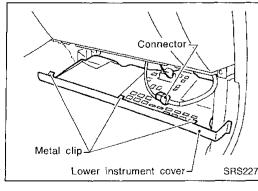
If air bag warning lamp blinks or stays ON (at the user mode), it shows the spiral cable may be snapped due to its improper position. Perform self-diagnosis again (use CON-SULT or warning lamp). If a malfunction is detected, replace the spiral cable with a new one.

13. Perform self-diagnosis again to check that no malfunction is detected.



Installation — Front Passenger Air Bag Module

- Always work from the side of or under air bag module.
- 1. Install front passenger air bag module on steering member.
- Ensure harness is not caught between rear of air bag module and steering member.
- Install glove box assembly. (Glove box lid is open.)



- Connect air bag module connector to body harness connector.
- Install lower instrument cover on instrument panel assembly.
- 5. Connect both battery cables.
- Conduct self-diagnosis, RS-23, to ensure entire SRS operates properly. (Use CONSULT or warning lamp.)

Disposal of Air Bag Module and Seat Belt Pre-tensioner

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 as indicated in "DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER" (RS-17).

When deploying the air bag module and seat belt pre-tensioner, always use the Special Service Tool; Deployment tool KV99106400 (Kent-Moore No. J38381).

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.

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

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 move than 10 minutes after deployment.

Be sure to wear gloves when handling a deployed air bag module and seat belt pre-tensioner.

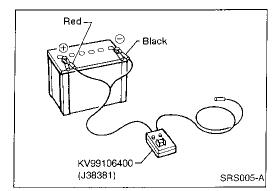
Never apply water to a deployed air bag module and seat belt pre-tensioner.

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 un-deployed.



CHECKING DEPLOYMENT TOOL

Connecting to battery

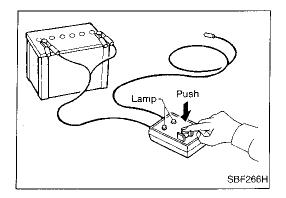
CAUTION:

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 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.



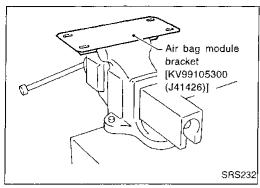
Deployment tool check

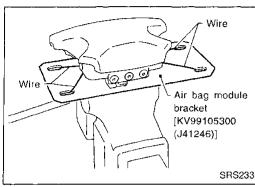
Press the deployment tool switch to the "ON" position. The left side lamp in the tool, marked "air bag connector voltage" should illuminate. If it does not illuminate, replace the tool.

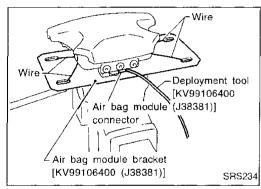
Air bag deployment tool lamp illumination chart (Battery connected)

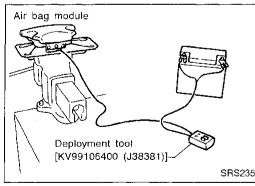
Switch operation	Left side lamp, green* "AIR BAG CONNECTOR VOLTAGE"	Right side lamp, green* "DEPLOYMENT TOOL POWER"
OFF	OFF	ON
ON	ON	ON

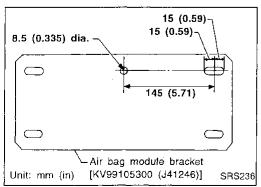
^{*:} If this lamp glows red, the tool is connected to the battery incorrectly. Reverse the connections and make sure the lamp glows green.











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

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 in a vise secured to a firm foundation during deployment.

Deployment of driver's air bag module (outside of vehicle)

1. Using wire, secure air bag module to air bag module bracket [SST: KV99105300 (J41246)] at two places.

CAUTION

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

2. Firmly secure air bag module bracket [SST: KV99105300 (J41246)] with air bag module attached, in a vise.

Connect deployment tool [SST: KV99106400 (J38381)] to air bag module connector.

4. 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.

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 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 (outside of vehicle)

 Make an 8.5 mm (0.335 in) diameter hole in air bag module bracket [SST: KV99105300 (J41246)] at the position shown in figure at left.

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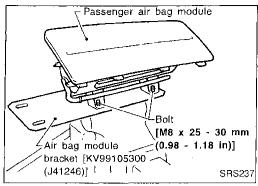
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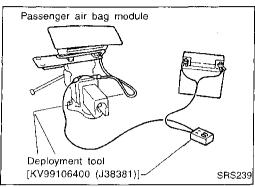
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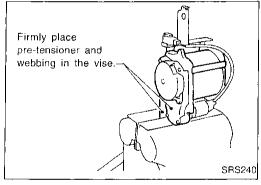


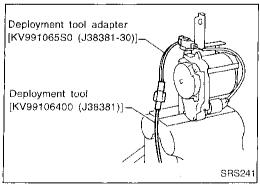


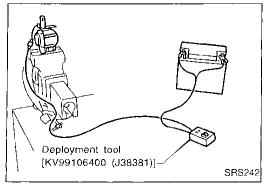












Disposal of Air Bag Module and Seat Belt Pre-tensioner (Cont'd)

- 2. Firmly secure air bag module bracket [SST: KV99105300 (J41246)] in a vise.
- 3. Match the two holes in air bag module bracket (held in vise) and passenger air bag module and fix them with two bolts [M8 x 25 30 mm (0.98 1.18 in)].

CAUTION:

If a gap exists between passenger air bag module and air bag module bracket, use a piece of wood inserted in the gap to stabilize the air bag module.

- 4. Connect deployment tool adapter [SST: KV991065S0 (J38381-30)] to deployment tool [SST: KV99106400 (J38381)] connector and connector on either side of 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.
- 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 seat belt pre-tensioner (outside of vehicle)

1. Firmly anchor seat belt pre-tensioner in a vise.

CAUTION:

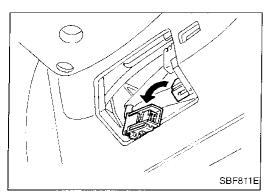
Ensure bracket and webbing are placed in the vise.

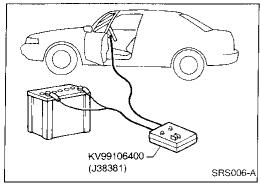
2. Connect deployment tool adapter [SST: KV991065S0 (J38381-30)] to deployment tool [SST: KV99106400 (J38381)] connector and seat belt pre-tensioner connector.

- 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 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.

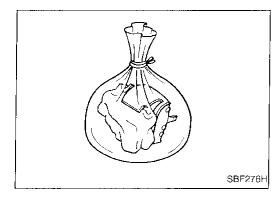
CAUTION:

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

- Disconnect both the vehicle battery cables and wait 3 minutes.
- Disconnect air bag modules and seat belt pre-tensioners con-
- 3. Connect deployment tool [SST: KV99106400 (J38381)] to air bag module or seat belt pre-tensioner. For front passenger air bag module and seat belt pretensioner, attach deployment tool adapter [SST: KV991065S0 (J38381-30)] to the tool connector.
- 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 or seat belt pre-tensioner will deploy.

CAUTION:

Activate only one passenger air bag module or seat belt pretensioner at a time.



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 pretensioner, 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-
- Wash your hands clean after finishing work.

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How to Perform Trouble Diagnoses 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 problem. 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

Check that the following parts are in good order.

Battery [Refer to MA section ("GENERAL MAINTENANCE").]

• Fuse [Refer to EL section ("Fuse", "POWER SUPPLY ROUTING").]

System component-to-harness connections

DIAGNOSIS FUNCTION

The SRS self-diagnosis results can be read by using "AIR BAG" warning lamp, "SEAT BELT" warning lamp and/or CONSULT. The reading of these results is accomplished using one of two modes — "User mode" and "Diagnosis mode".

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 and/or "SEAT BELT" warning lamp.

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

The mode applications for the "AIR BAG" warning lamp, "SEAT BELT" warning lamp and CONSULT are as follows:

	User mode	Diagnosis mode	Display type
"AIR BAG" warning lamp	X	X	ON-OFF operation
"SEAT BELT" warning lamp	X	_	ON-OFF operation
CONSULT		X	Monitoring

DIAGNOSIS MODE FOR CONSULT

SELF-DIAG [CURRENT]

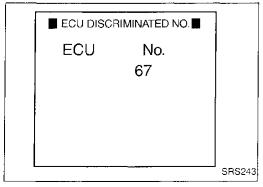
A current Self-diagnosis result (also indicated by the warning lamp flashes in the Diagnosis mode) is displayed on the CONSULT screen in real time. This refers to a malfunctioning part requiring repairs.

SELF-DIAG [PAST]

Diagnosis results previously stored in the memory (also indicated by the warning lamp flashes in the Diagnosis mode) are displayed on the CONSULT 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 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 screen, as shown at left. 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 screen.

For INFINITI Q45, the diagnosis sensor unit classification number assigned is 67.

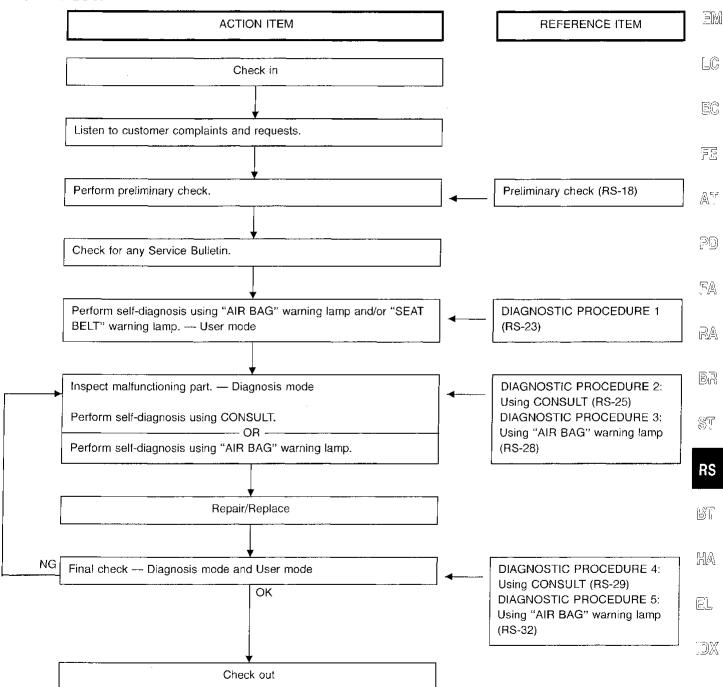
How to Perform Trouble Diagnoses for Quick and Accurate Repair (Cont'd)

CAUTION:

- Do not use a circuit tester to check SRS harness connectors unless instructed to in this Service Manual. SRS wiring harnesses are covered with yellow insulation either just before the harness connectors or for the complete harness, for easy identification.
- Do not attempt to repair, splice or modify the SRS wiring harness. If the harness is damaged, replace it with a new one.

Keep ground portion clean.

WORK FLOW

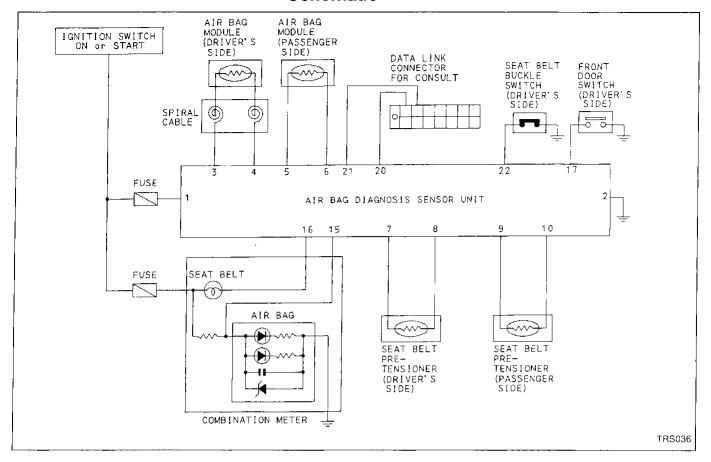


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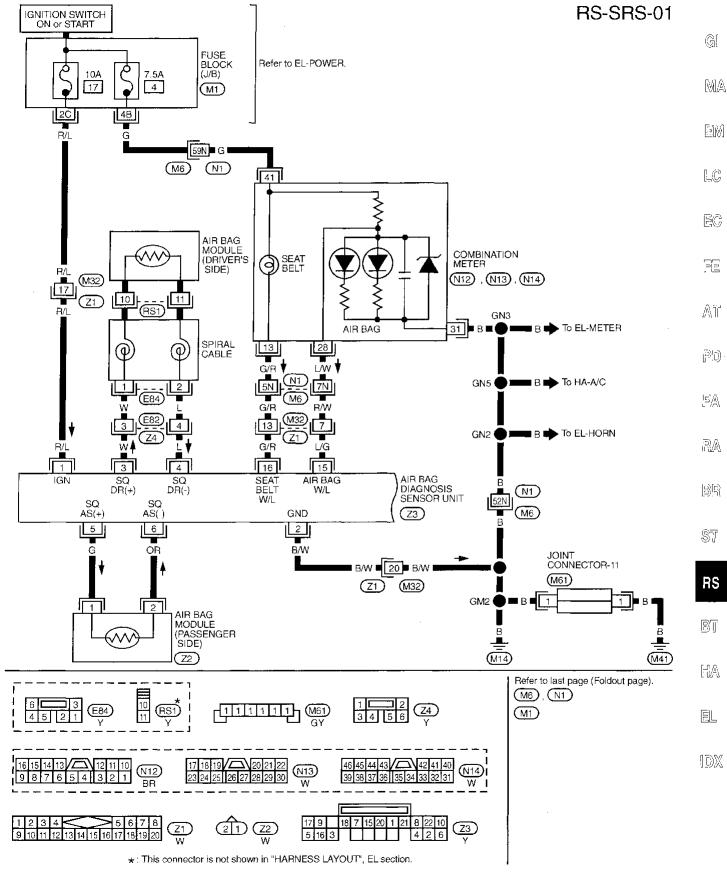
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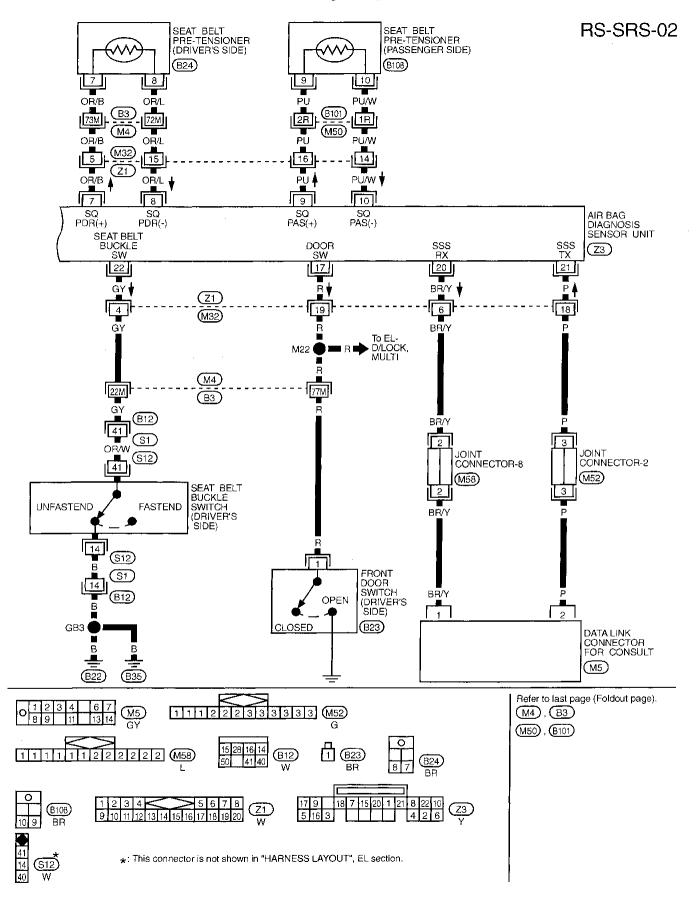
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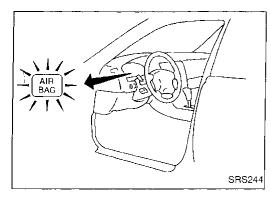


Wiring Diagram — SRS —



Wiring Diagram — SRS — (Cont'd)





Self-diagnosis **DIAGNOSTIC PROCEDURE 1**

Checking SRS operation by using "AIR BAG" warning lamp — User mode

- 1. After turning ignition switch from "OFF" to "ON", "AIR BAG" warning lamp operates.
- Compare "AIR BAG" warning lamp operation to the chart below.

"AIR BAG" warning lamp operation — User mode —	SRS condition	Reference item	
IGN ON	No malfunction is detected. No further action is necessary.	_	-
7 sec.		;	
MRS	095A		_
IGN ON	The system has problem and needs to be repaired as indicated.	Go to DIAGNOSTIC PRO- CEDURE 2, or 3 (RS-25 or 28).	
0.5 sec. 0.5 sec.			
MRS	096A		
IGN ON	Air bag (and seat belt pre- tensioner) is deployed.	Go to COLLISION DIAGNOSIS (RS-42).	
ON DEF	Air bag fuse, diagnosis sensor unit or harness is malfunctioning and needs to be repaired.	Go to DIAGNOSTIC PRO- CEDURE 9 (RS-38).	•
MRSO	· '		
	One of the following has	Go to DIAGNOSTIC PRO-	
IGN ON	occurred and needs to be repaired. • Meter fuse is blown. • "AfR BAG" warning	CEDURE 10 (RS-38).	
OFF	lamp circuit has open or short. • Diagnosis sensor unit is		
MRSC			

NOTE:

If "AIR BAG" warning lamp operates differently from the operations shown above, refer to "AIR BAG" warning lamp operation — Diagnosis mode —, DIAGNOSTIC PROCEDURE 3 (step 4), RS-28.

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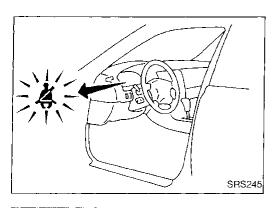
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Self-diagnosis (Cont'd)

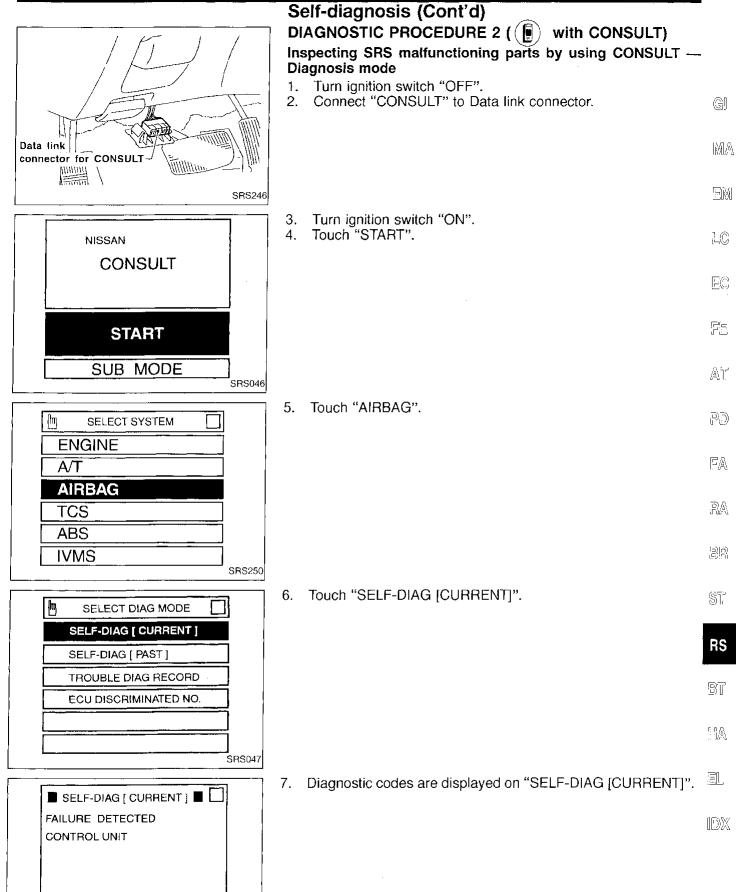


Checking seat belt pre-tensioner operation by using "SEAT BELT" warning lamp — User mode

- 1. After turning ignition switch from "OFF" to "ON", "SEAT BELT" warning lamp operates.
- Compare "SEAT BELT" warning lamp operation to the chart below.

"SEAT BELT" warning lamp operation	SRS condition	Reference item
After driver's seat belt has been fastened. IGN ON OFF 7 sec. MRS095A When driver's seat belt has not been fastened. IGN ON ON Seat belt is fastened. ON		_
After driver's seat belt has been fastened. IGN ON OFF 0.5 sec. MRS096A When driver's seat belt has not been fastened. IGN ON OFF SRS086 SRS086	Seat belt pre-tensioner circuit is opened, or Seat belt pre-tensioner power supply or ground circuit is shorted.	If CONSULT is available, go to DIAGNOSTIC PROCEDURE 2 (RS-25). If CONSULT is not available, repair the system as follows.* Visually check the wiring harness connections. Replace driver's and front passenger seat belt assemblies. (Before disposing, they must be deactivated.) Replace diagnosis sensor unit. Replace air bag harness.
When driver's seat belt is fastened. IGN ON ON OFF MRS097A	Seat belt pre-tensioner (and air bag) is deployed. Seat belt buckle switch, harness, combination meter assembly, diagnosis sensor unit are malfunctioning and need to be repaired.	Go to COLLISION DIAGNOSIS (RS-42). Go to DIAGNOSTIC PROCEDURE 12 (RS-40).
IGN ON OFF MRS098A	Meter fuse, diagnosis sensor unit or "SEAT BELT" warning lamp circuit is shorted or open and needs to be repaired.	Go to DIAGNOSTIC PRO- CEDURE 13 (RS-41).

^{*} Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using the seat belt warning lamp 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.



PRINT

SRS048

ERASE

SELF-DIAG [CURRENT] FAILURE DETECTED * NO SELF DIAGNOSTIC FAILURE INDICATED. FURTHER TESTING MAY BE REQUIRED. ** ERASE PRINT SRS049

Self-diagnosis (Cont'd)

If no self-diagnostic failure is detected on "SELF-DIAG [CURRENT]" even though malfunction is detected in DIAGNOSTIC PROCEDURE 1, go to DIAGNOSTIC PROCEDURE 6, page RS-34.

- 3. Touch "PRINT".
- 9. Compare diagnostic codes to the CONSULT DIAGNOSTIC CODE CHART, page RS-27.
- 10. Touch "BACK" key of CONSULT until SELECT SYSTEM appears, then turn off CONSULT.
- 11. Turn ignition switch "OFF", then disconnect CONSULT and both battery cables.
- 12. Repair the system as outlined by the "Repair order" in CON-SULT DIAGNOSTIC CODE CHART, that corresponds to the problem code. For replacement procedure of component parts, refer to RS-9.
- 13. After repairing the system, go to DIAGNOSTIC PROCEDURE 4, page RS-29.

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

CONSULT DIAGNOSTIC CODE CHART

Diagnostic item	Explanation	Repair order Recheck SRS at each replacement.	
NO SELF DIAGNOSTIC FAILURE INDICATED.	No malfunction is detected.	Go to DIAGNOSTIC PROCEDURE 6 (RS-34).	- Gi
AIRBAG MODULE [OPEN]	Driver's air bag module circuit is open. (including the spiral cable)	Visually check the wiring harness connection. Replace the harness if it has visible damage.	
AIRBAG MODULE [VB-SHORT]	 Driver's air bag module circuit is shorted to some power supply circuit. (including the spiral cable) 	3. Replace driver's air bag module. (Before disposal of it, it must be deployed.) 4. Replace the spiral cable. 5. Replace the diagnosis sensor unit.	
AIRBAG MODULE [GND-SHORT]	 Driver's air bag module circuit is shorted to ground. (including the spiral cable) 		ZM
AIRBAG MODULE [SHORT]	Driver's air bag module circuits are shorted to each other.		- 10
ASSIST A/B MODULE [VB-SHORT]	Front passenger air bag module circuit is shorted to some power supply circuit.	Visually check the wiring harness connection. Replace the harness if it has visible damage.	- 1.G
ASSIST A/B MODULE [OPEN]	• Front passenger air bag module circuit is open.	3. Replace front passenger air bag module. (Before disposal of it, it must be deployed.) 4. Replace the diagnosis sensor unit.	
ASSIST A/B MODULE [GND-SHORT]	Front passenger air bag module circuit is shorted to ground.	}	
ASSIST A/B MODULE [SHORT]	Front passenger air bag module circuits are shorted to each other.		
DRIVE PRE-TENSION [OPEN/VB-SHORT]	The circuit for the driver's pre-tensioner is open or shorted to some power supply circuit.	Visually check the wiring harness connections. Replace the harness if it has visible damage. Replace the driver's seat belt.	- AT
DRIVE PRE-TENSION [GND-SHORT]	The circuit for the driver's pre-tensioner is shorted to ground.	(Before disposing, it must be deactivated.) 4. Replace the diagnosis sensor unit.	_ [PID)
ASSIST PRE-TENSION [OPEN/VB-SHORT]	The circuit for the front passenger pre-tensioner is open or shorted to some power supply circuit.	Visually check the wiring harness connections. Replace the harness if it has visible damage. Replace the front passenger seat belt. (Referre dispersion it must be described.)	. PO FA
ASSIST PRE-TENSION [GND-SHORT]	The circuit for the front passenger pre-tensioner is shorted to ground.	(Before disposing, it must be deactivated.) 4. Replace the diagnosis sensor unit.	
CONTROL UNIT	Diagnosis sensor unit is out of order.	Replace the diagnosis sensor unit.	RA

^{*} Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using the air bag or seat belt warning lamp or CONSULT 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.

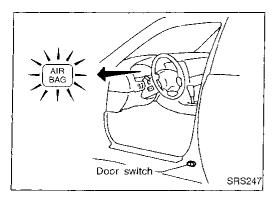


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Self-diagnosis (Cont'd)

DIAGNOSTIC PROCEDURE 3 (without CONSULT)
Inspecting SRS malfunctioning parts by using "AIR BAG" warning lamp — Diagnosis mode

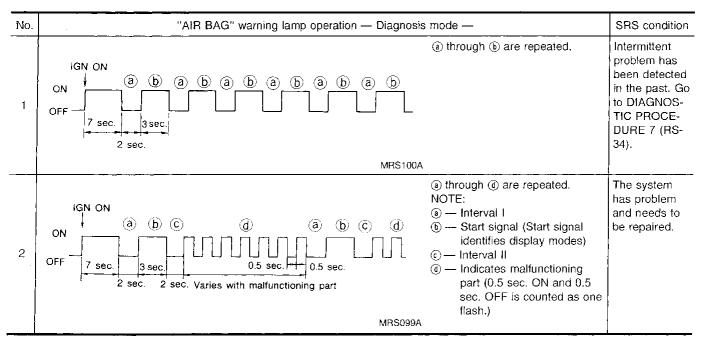
NOTE:

SRS will not enter Diagnosis mode if no malfunction is detected in User mode.

- 1. Open driver's door.
- 2. Turn ignition switch from "OFF" to "ON".
- Press driver's door switch at least 5 times within 7 seconds after turning ignition switch "ON".
 SRS is now in Diagnosis mode.
- 4. "AIR BAG" warning lamp operates in diagnosis mode as follows:

NOTE:

If SRS does not enter diagnosis mode even though malfunction is detected in User mode, go to DIAGNOSTIC PROCEDURE 11, page RS-39.



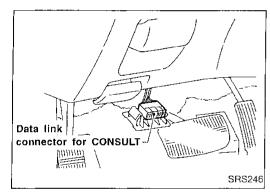
- Malfunctioning part is indicated by the number of flashes (part
 Compare the number of flashes to AIR BAG WARNING LAMP FLASH CODE CHART, page RS-29, and locate mal-functioning part.
- 6. Turn ignition switch "OFF", and disconnect both battery cables.
- Repair the system as outlined by the "Repair order" in AIR BAG WARNING LAMP FLASH CODE CHART that corresponds to the flash code. For replacement procedure of component parts, refer to RS-9.
- 8. After repairing the system, go to DIAGNOSTIC PROCEDURE 5, page RS-32.

Self-diagnosis (Cont'd)

AIR BAG WARNING LAMP FLASH CODE CHART

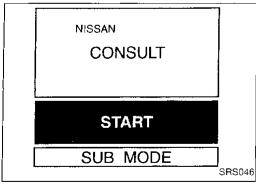
Warning lamp	Flash code (0) (# of flashes)	Explanation	Repair order Recheck SRS at each replacement.
	0	No malfunction is detected.	Go to DIAGNOSTIC PROCEDURE 7 (RS-34).
'AIR BAG" warning lamp	2	The driver's air bag module circuit is out of order.	 Visually check the wiring harness connections. Replace the spiral cable. Replace the driver's air bag module. (Before disposing of it, it must be deployed.) Replace the diagnosis sensor unit. Replace the air bag harness.
AG" w	7	The diagnosis sensor unit is out of order.	Visually check the wiring harness connections. Replace the diagnosis sensor unit.
"AIR B	8	The front passenger air bag module circuit is out of order.	Visually check the wiring harness connections. Replace the front passenger air bag module. (Before disposing of it, it must be deployed.) Replace the diagnosis sensor unit. Replace the air bag harness.

^{*} Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using the air bag warning lamp (in User mode) or CONSULT 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 4 (with CONSULT) Final checking after repairing SRS by using CONSULT — Diagnosis mode

- . After repairing SRS, connect both battery cables.
- 2. Connect CONSULT to Data link connector.
- 3. Turn ignition switch from "OFF" to "ON".



4. Touch "START".

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AIRBAG

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ABS

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5. Touch "AIRBAG".

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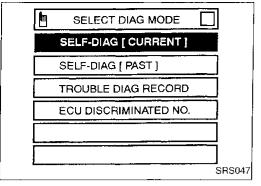
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Self-diagnosis (Cont'd)

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



SELF-DIAG [CURRENT]

* NO SELF DIAGNOSTIC

FAILURE INDICATED.

FURTHER TESTING

MAY BE REQUIRED. ★ *

FAILURE DETECTED

7. If no malfunction is detected on "SELF-DIAG [CURRENT]", repair of SRS is completed.

When the malfunction was only in seat belt pre-tensioner system, go to step 11. When the malfunction was not only in

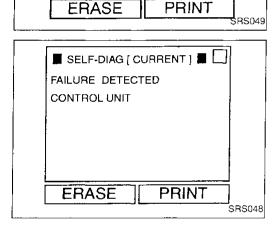
seat belt pre-tensioner system, touch "ERASE".

NOTE:

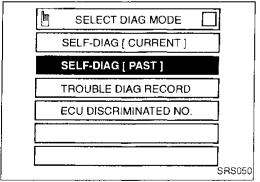
Touch "ERASE" to erase problem (Trouble code) retained in memory. Otherwise, Diagnosis Sensor Unit still senses problem in memory when step 13 (Air bag warning lamp operation check) is performed. The result is confusing a new with an old problem.

If any problem code was displayed on "SELF-DIAG [CURRENT]", the malfunctioning part is not repaired completely or another malfunctioning part is detected. Go to DIAGNOSTIC PROCEDURE 2, page RS-25, and repair malfunctioning part completely.

8. Touch "BACK" key of CONSULT.



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



 Check that no self-diagnostic failure is detected on "SELF-DIAG [PAST]".

NOTE:

Past malfunction for seat belt pre-tensioner system will not be displayed on "SELF-DIAG [PAST]".

Self-diagnosis (Cont'd)

- 11. Touch "BACK" key of CONSULT until SELECT SYSTEM appears, turn off CONSULT, then disconnect CONSULT.
- 12. Turn ignition switch "OFF".
- Go to DIAGNOSTIC PROCEDURE 1, page RS-23 to check SRS operation by using "AIR BAG" warning lamp with User mode.

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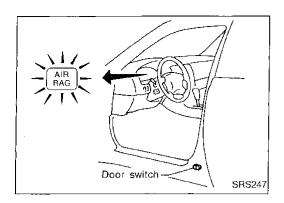
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Self-diagnosis (Cont'd)

DIAGNOSTIC PROCEDURE 5 (without CONSULT)
Final checking after repairing SRS by using "AIR BAG" warning lamp — Diagnosis mode and User mode

- 1. After repairing SRS connect both battery cables.
- 2. Open driver's door.
- 3. Turn ignition switch from "OFF" to "ON".
- "AIR BAG" warning lamp operates in diagnostic mode as follows:

No.	"AIR BAG" warning lamp operation — Diagnosis	s mode —	SRS condition
1	IGN ON ON OFF 7 sec. 3 sec. 2 sec. MRS100A	(a) through (b) are repeated.	No malfunction is detected or repair is completed. No further action is necessary.
2	ON OFF 7 sec. 3 sec. 0.5 sec. 0.5 sec. 2 sec. 2 sec. Varies with malfunctioning part MRS099A	through	The system has problem and needs to be repaired.

NOTE:

When diagnosis sensor unit is replaced with new one, "AIR BAG" warning lamp will operate in User mode. Checking "AIR BAG" warning lamp operation in Diagnosis mode is not required. Go to step 6.

Self-diagnosis (Cont'd)

 If "AIR BAG" warning lamp operates as shown in No. 1 in chart above, turn ignition switch "OFF" to reset from Diagnosis mode to User mode. Then go to step 6.

If "AIR BAG" warning lamp operates as shown in No. 2 in chart above, the malfunctioning part is not repaired completely, or another malfunctioning part is detected. Go to DIAGNOSTIC PROCEDURE 3, page RS-28, and repair malfunctioning part completely.

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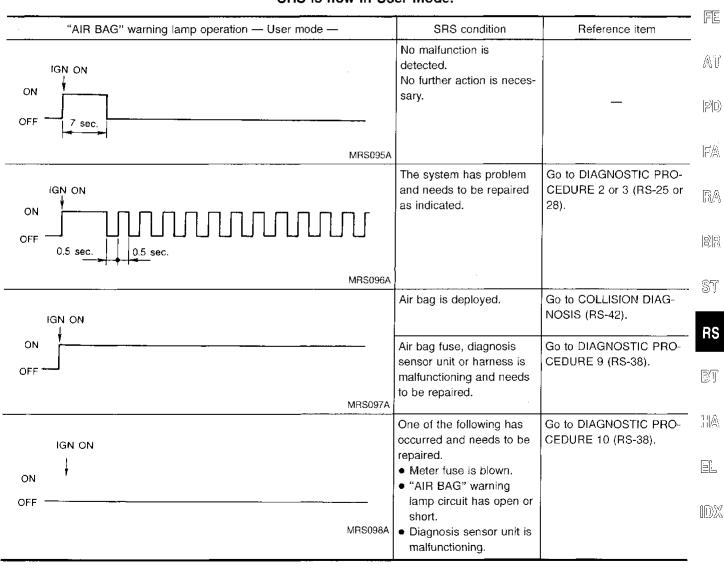
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 Turn ignition switch "ON". "AIR BAG" warning lamp operates in User mode. Compare "AIR BAG" warning lamp operation to the chart below.

NOTE:

If switching Diagnosis mode to User mode is required while malfunction is being detected, turn ignition switch from "OFF" to "ON". Then press driver's door switch at least 5 times within 7 seconds after turning ignition switch "ON". SRS is now in User mode.

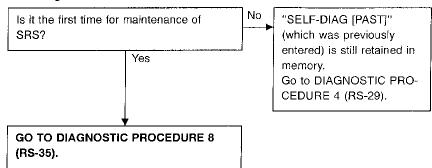


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Self-diagnosis (Cont'd)

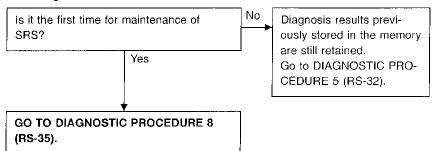
DIAGNOSTIC PROCEDURE 6 (Continued from DIAGNOSTIC PROCEDURE 2) (with CONSULT)

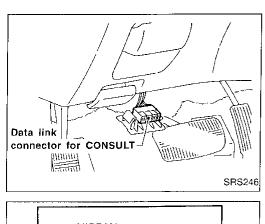
Inspecting SRS malfunctioning record and checking battery voltage



DIAGNOSTIC PROCEDURE 7 (Continued from DIAGNOSTIC PROCEDURE 3) (without CONSULT)

Inspecting SRS malfunctioning record and checking battery voltage





Self-diagnosis (Cont'd)

DIAGNOSTIC PROCEDURE 8 (() with CONSULT) Inspecting SRS intermittent problem by using CONSULT — Diagnosis mode

- Turn ignition switch "OFF".
- Connect "CONSULT" to Data link connector.

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Turn ignition switch "ON". Touch "START".

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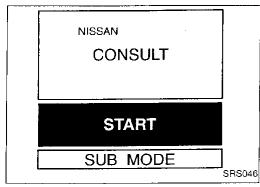
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SELECT SYSTEM

ENGINE

AIRBAG

A/T

TCS ABS

IVMS

5. Touch "AIRBAG".

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

SRS250

SELECT DIAG MODE SELF-DIAG [CURRENT]

SELF-DIAG [PAST]

TROUBLE DIAG RECORD

ECU DISCRIMINATED NO.

SRS050

SRS054

■ SELF-DIAG [PAST] ■ FAILURE DETECTED CONTROL UNIT PRINT

If diagnostic codes are displayed on "SELF-DIAG [PAST]", go to step 10.

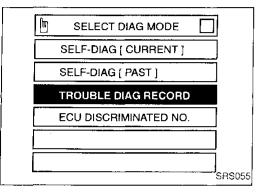
SELF-DIAG [PAST] FAILURE DETECTED * NO SELF DIAGNOSTIC FAILURE INDICATED. FURTHER TESTING MAY BE REQUIRED. ** PRINT SRS062

Self-diagnosis (Cont'd)

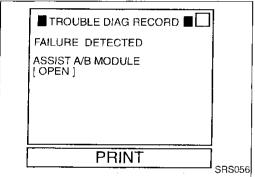
If no self-diagnostic failure is detected on "SELF-DIAG [PAST]", touch "BACK" and go back to "SELECT DIAG MODE".

NOTE:

Past malfunction for seat belt pre-tensioner system will not be displayed on "SELF-DIAG [PAST]".



8. Touch "TROUBLE DIAG RECORD".



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

- 10. Touch "PRINT".
- 11. Compare diagnostic codes to the INTERMITTENT PROBLEM DIAGNOSTIC CODE CHART, page RS-37.
- Touch "BACK" key of CONSULT until SELECT SYSTEM appears, then turn off CONSULT.
- 13. Turn ignition switch "OFF", then disconnect CONSULT and both battery cables.
- 14. Repair the system as outlined by the "Repair order" in INTER-MITTENT PROBLEM DIAGNOSTIC CODE CHART, that corresponds to the problem code. For replacement procedure of component parts, refer to RS-9.
- 15. Go to DIAGNOSTIC PROCEDURE 4, page RS-29, for final-checking.

Self-diagnosis (Cont'd)

INTERMITTENT PROBLEM DIAGNOSTIC CODE CHART

Diagnostic item	Explanation	Repair order Recheck SRS at each replacement.	
NO SELF DIAGNOSTIC FAILURE INDICATED.	No malfunction is detected.	Go to DIAGNOSTIC PROCEDURE 4 (RS-29) after charging battery.	G[
AIRBAG MODULE [OPEN]	Driver's air bag module circuit is open. (including the spiral cable)	Replace driver's air bag module. (Before disposal of it, it must be deployed.)	MA
AIRBAG MODULE [VB-SHORT]	Driver's air bag module circuit is shorted to some power supply circuit. (including the spi- ral cable)	 Replace the spiral cable. Replace the diagnosis sensor unit. Replace the harness if it has visible damage. 	EM
AIRBAG MODULE [GND-SHORT]	Driver's air bag module circuit is shorted to ground. (including the spiral cable)		LG
AIRBAG MODULE [SHORT]	Driver's air bag module circuits are shorted to each other.		EC
ASSIST A/B MODULE [VB-SHORT]	Front passenger air bag module circuit is shorted to some power supply circuit.	Replace front passenger air bag module. (Before disposal of it, it must be deployed.)	
ASSIST A/B MODULE [OPEN]	Front passenger air bag module circuit is open.	Replace the diagnosis sensor unit. Replace the harness if it has visible damage.	FE
ASSIST A/B MODULE [GND-SHORT]	Front passenger air bag module circuit is shorted to ground.		AT
ASSIST A/B MODULE [SHORT]	Front passenger air bag module circuits are shorted to each other.		PD
CONTROL UNIT	Diagnosis sensor unit is out of order.	Replace the diagnosis sensor unit.	

^{*} Intermittent problem areas cannot be easily located. For this reason, perform the procedures outlined under the repair order, then make the final system check.



FA







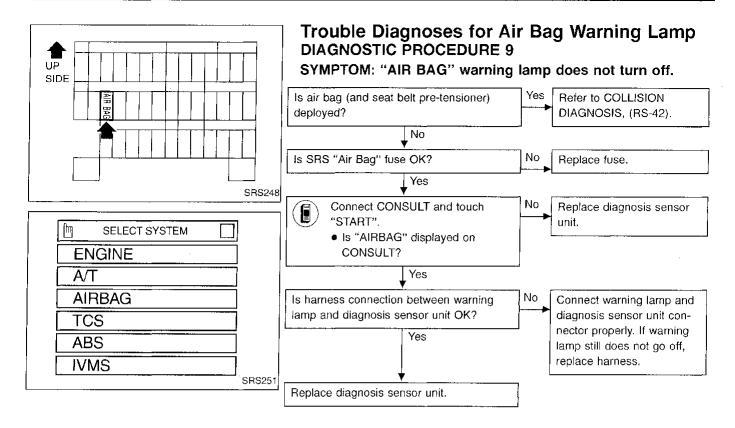


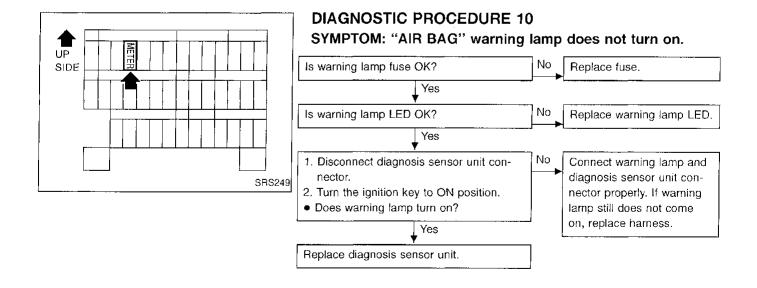


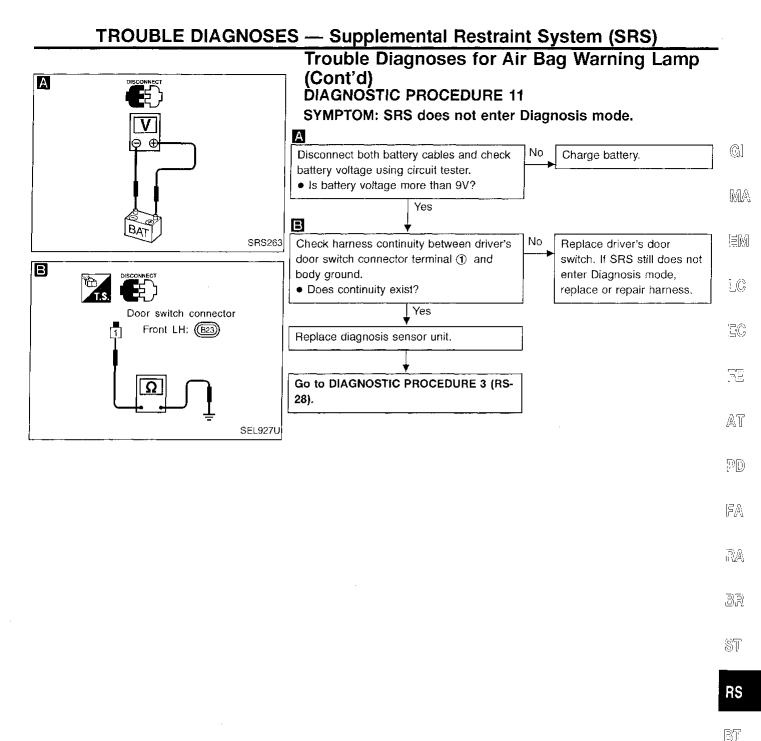




RS-37 1021

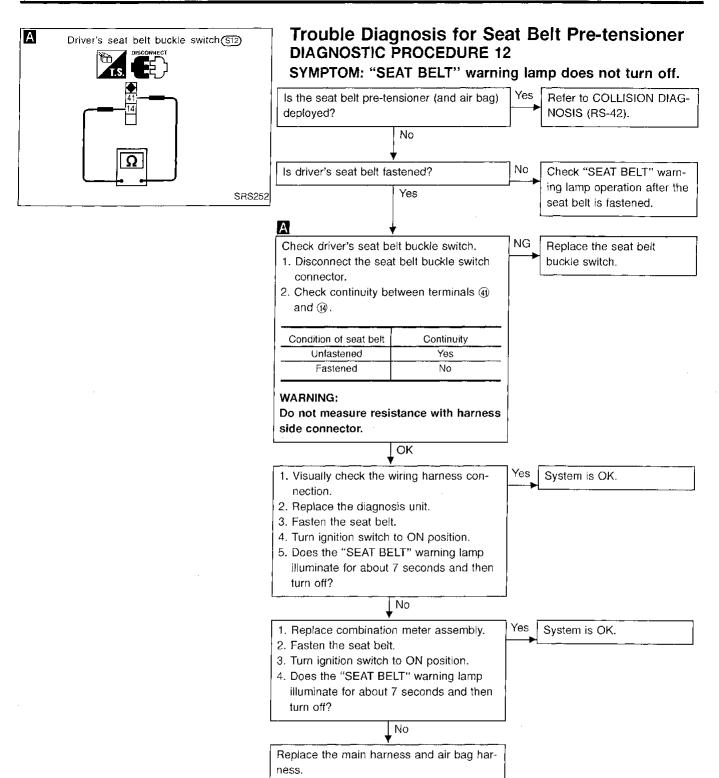






IDX

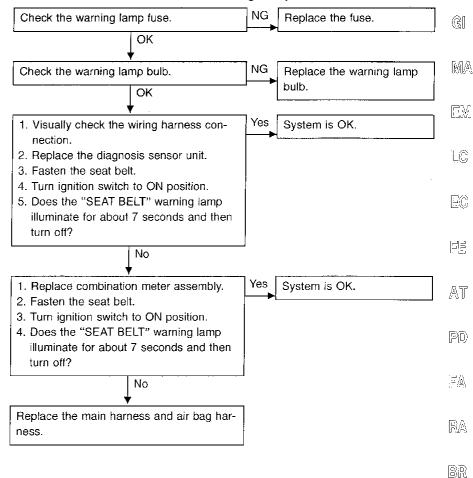
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Trouble Diagnosis for Seat Belt Pre-tensioner (Cont'd)

DIAGNOSTIC PROCEDURE 13

SYMPTOM: "SEAT BELT" warning lamp does not turn on.



1025

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COLLISION DIAGNOSIS

To repair the SRS, perform the following steps.

When SRS is activated in a collision:

- ① Replace the diagnosis sensor unit.
- 2) Remove the air bag modules and seat belt pre-tensioner assemblies.
- 3 Check the SRS components using the table shown below:
 - Replace any SRS components showing visible signs of damage (dents, cracks, deformation).
- 4 Install new air bag modules and seat belt pre-tensioner assemblies.
- ⑤ Conduct self-diagnosis using CONSULT, and "AIR BAG" and "SEAT BELT" warning lamps. Refer to "Self-diagnosis" for details (RS-23). Ensure entire SRS operates properly.

When SRS is not activated in a collision:

- ① Check the SRS components using the table shown below:
 - Replace any SRS components showing visible signs of damage (dents, cracks, deformation).
- ② Conduct self-diagnosis using CONSULT, and "AIR BAG" and "SEAT BELT" warning lamps. Refer to "Self-diagnosis" for details (RS-23). Ensure entire SRS operates properly.

SRS inspection

Part	SRS is activated	SRS is NOT activated	
Air bag module (driver and passen- ger side)	REPLACE Install with new bolts.	 Remove air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 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. No damage found, reinstall with new bolts. If damaged—REPLACE. Air bag must be deployed before discarding. 	
Seat belt pre-ten- sioner assembly	REPLACE Install with new bolts. 1. Remove seat belt pre-tensioners. Check harness cover and connectors for damage, terminals for deformities, a harness for binding. 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. If damaged—REPLACE.		
Diagnosis sensor unit	REPLACE Install with new bolts. 1. Check case and bracket for dents, cracks or deformities. 2. Check connectors for damage, and terminals for deformities. 3. If no damage is found, reinstall with new bolts. 4. If damaged—REPLACE.		
Instrument panel	Check instrument panel for bending, deformities, or cracks. Check passenger side air bag module brackets for dents, cracks or deformities. If no damage is found, reinstall with new bolts. If damaged—REPLACE.		
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 module to check fit or alignment with steering wheel. 4. Check steering wheel for excessive free play. 5. If no damage is found, reinstall with new bolts. 6. If damaged—REPLACE.		
Spiral cable	1. Visually check spiral cable and combination switch for damage. 2. Check connectors, flat cable and protective tape for damage. 3. Check steering wheel for noise, binding or heavy operation. 4. If no damage is found, reinstall with new bolts. 5. If damaged—REPLACE.		
Harness and Con- nectors	 Check connectors for poor connection, damage, and terminals for deformities. Check harness for binding, chafing, cuts, or deformities. If no damage is found, reinstall harness and connectors. Damaged—REPLACE damaged section of harness. Do not attempt to repair, splice or modify any SRS harness. 		