RESTRAINT SYSTEM

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CONTENTS

PRECAUTION	2
Supplemental Restraint System (SRS) "AIR	
BAG" and "SEAT BELT PRE-TENSIONER",	2
SEAT BELTS	3
Front Seat Belt	4
Rear Seat Belt	5
Seat Belt Inspection	6
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)	9
Precautions for SRS "AIR BAG" and "SEAT	
BELT PRE-TENSIONER" Service	9
Special Service Tools	9
Description	10
SRS Component Parts Location	11
Maintenance Items	11
Removal and Installation — Diagnosis Sensor	
Unit, Seat Belt Pre-tensioner and Satellite	
Sensor	13
Removal — Air Bag Module and Spiral Cable	15
Removal Front Passenger Air Bag Module	

Removal — Side Air Bag Module17	FE
Installation — Air Bag Module and Spiral Cable18	
Installation — Front Passenger Air Bag Module19	CL
Installation — Side Air Bag Module20	-
Disposal of Air Bag Module and Seat Belt	
Pre-tensioner20	MIT
TROUBLE DIAGNOSES — Supplemental	
Restraint System (SRS)26	AT
Trouble Diagnoses Introduction26	<i>1</i> −3.0
How to Perform Trouble Diagnoses for Quick	
and Accurate Repair28	FA
Schematic30	
Wiring Diagram — SRS —31	കര
Self-diagnosis35	RA
Trouble Diagnoses for Air Bag Warning Lamp54	
Trouble Diagnosis for Seat Belt Pre-tensioner	BR
Warning Lamp56	
COLLISION DIAGNOSIS58	
	ST

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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.

In addition to the supplemental air bag modules for a frontal collision, the supplemental side air bag used along with the seat belt helps to reduce the risk or severity of injury to the driver and front passenger in a side collision. The supplemental side air bag consists of air bag modules (located in the outer side of front seats), satellite sensor, diagnosis sensor unit (which is one of components of supplemental air bags for a frontal collision), wiring harness, warning lamp (which is one of components of supplemental air bags for a frontal collision).

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 (except "SEAT BELT PRE-TENSIONER" connector) can be identified by yellow harness connector (and with yellow harness protector or yellow insulation tape before the harness connectors).

CAUTION:

 Certain systems and components, especially those related to OBD, may use a new style slidelocking type harness connector.
 For description and how to disconnect, refer to EL section, "Description", "HARNESS CONNEC-TOR".

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.
- Do not use electrical test equipment for seat belt pre-tensioner connector.
- 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-35) for details.
- Do not use disassemble buckle or seat belt assembly.
- Replace anchor bolts if they are deformed or worn out.
- Never oil tongue and buckle.
- If any component of seat belt assembly is questionable, do not repair. Replace the whole seat belt assembly.
- If webbing is cut, frayed, or damaged, replace seat belt assembly.
- When replacing seat belt assembly, use a genuine 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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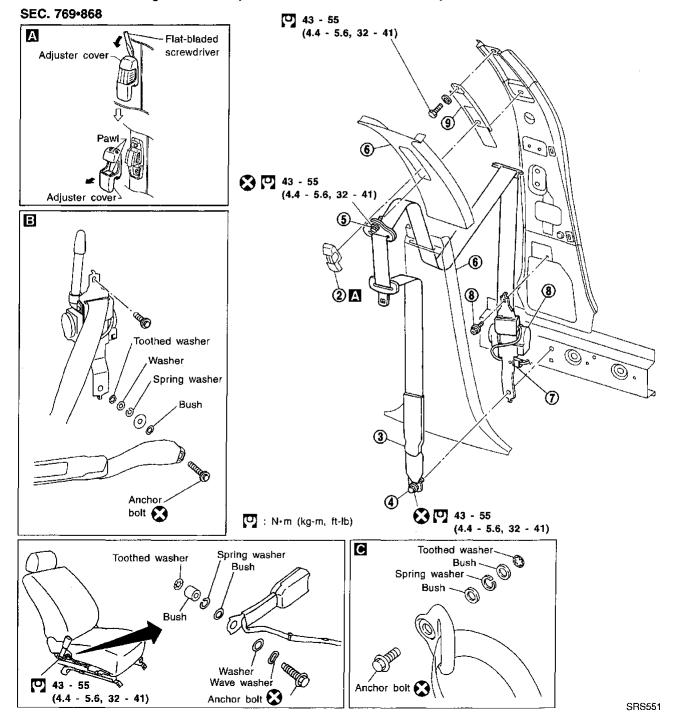
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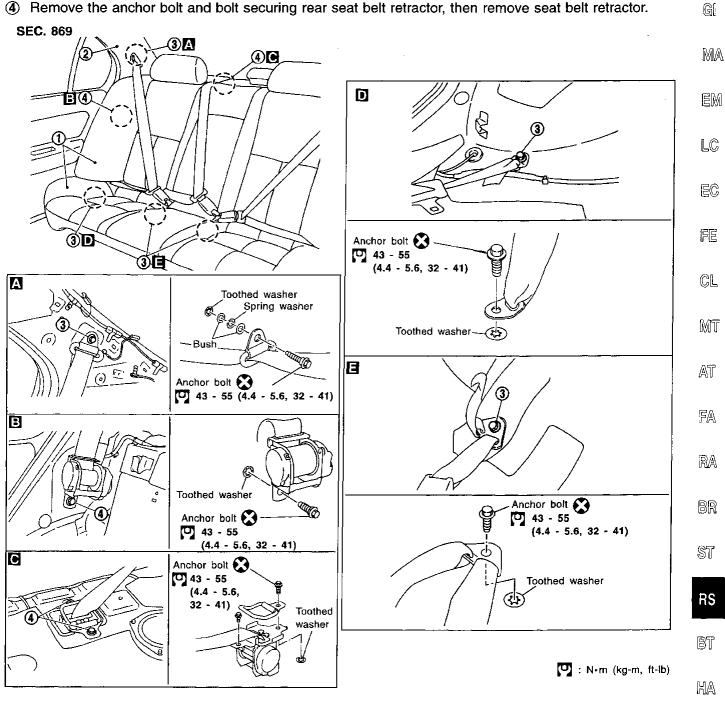
Front Seat Belt

- ① Slide the seat all the way forward and tilt the seatback toward the front.
- Remove adjuster cover.
- 3 Slide the floor anchor cover.
- (4) Remove floor anchor bolt.
- 5 Remove shoulder anchor bolt.
- ® Remove center pillar upper and lower garnish. Refer to "INTERIOR TRIM" in BT section for details.
- 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 bolts 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 pillar garnish. Refer to "INTERIOR TRIM" in BT section for details.
- 3 Remove each anchor bolt.
- 4 Remove the anchor bolt and bolt securing rear seat belt retractor, then remove seat belt retractor.



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Seat Belt Inspection

AFTER A COLLISION

WARNING:

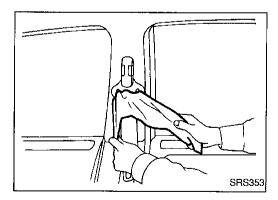
Inspect all seat belt assemblies including retractors and attaching hardware after any collision. NISSAN recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Failure to do so could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

Replace any seat belt assembly if:

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

PRELIMINARY CHECKS

- 1. Check the seat belt warning lamp/chime for proper operation as follows:
 - a. Switch ignition ON. The seat belt warning lamp should illuminate. Also, the seat belt warning chime should sound for about seven seconds.
 - b. Fasten driver's seat belt. The seat belt warning lamp should go out and the chime (if sounding) should stop.
 - c. If the seat belt warning lamp is blinking, conduct self-diagnosis using CONSULT, and seat belt warning lamp. Refer to "Self-diagnosis", "TROUBLE DIAGNOSES Supplemental Restraint System (SRS)", RS-35.
- Check that the seat belt retractor, seat belt anchor and buckle bolts are securely attached.
- Check the shoulder seat belt guide and shoulder belt height adjuster for front seats. Ensure guide swivels freely and that belt lays flat and does not bind in guide. Ensure height adjuster operates properly and holds securely.



- 4. Check retractor operation:
 - a. Fully extend the seat belt webbing and check for twists, tears or other damage.
 - b. Allow the seat belt to retract. Ensure that belt returns smoothly and completely into the retractor. If the seat belt does not returns smoothly, wipe the inside of the loops with a clean paper cloth etc. because dirt built up in the loops of the upper anchors can cause the seat belts to retractor slowly.
 - c. Fasten the seat belt. Pull firmly on belt and buckle to ensure belt remains latched. Unfasten seat belt. Ensure belt releases freely and buckle button returns to original position.
- Repeat steps above as necessary to check the other seat belts.

SEAT BELTS

Seat Belt Inspection (Cont'd)

ON-VEHICLE CHECK SEAT BELT RETRACTOR

Emergency Locking Retractors (ELR) and Automatic Locking Retractors (ALR) NOTE:

All seat belt retractors are of the Emergency Locking Retractors (ELR) type. In an emergency (sudden stop) the retractor will lock and prevent the belt from extending any further. All 3-point type seat belt retractors except the driver's seat belt also have an Automatic Locking Retractors (ALR) mode. The ALR mode (also called child restraint mode) is used when installing child seats. The ALR mode is activated when the seat belt is fully extended. When the belt is then retracted partially, the ALR mode automatically locks the seat belt in a specific position so the belt cannot be extended any further. To cancel the ALR mode, allow the seat belt to fully wind back into the retractor.

Check the seat belt retractors using the following test(s) to determine if a retractor assembly is operating properly.

ELR function stationary check

Grasp the shoulder belt and pull forward quickly. The retractor should lock and prevent the belt from extending further.

ALR function stationary check

- 1. Pull out entire length of seat belt from retractor until a click is heard.
- 2. Retract the belt partially. A clicking noise should be heard as the belt retracts indicating retractor is in the Automatic Locking Retractors (ALR) mode.
- Grasp the seat belt and try to pull out of retractor. Belt must lock and not extend further. If NG, replace the retractor assembly.
- 4. Allow the entire length of belt to retract to cancel the ALR mode.

ELR function moving check

WARNING:

Perform the following test in a safe, open area clear of other vehicles and obstructions (for example, a large, empty parking lot). Road surface must be paved and dry. DO NOT perform the following test on wet or gravel roads or on public streets and highways. This could result in an accident and serious personal injury. The driver and passenger must be prepared to brace themselves in the event the retractor does not lock.

- 1. Fasten driver's seat belt. Buckle a passenger into the seat for the belt.
- 2. Proceed to the designated safe area.
- Drive the vehicle at approximately 16 km/h (10 MPH). Notify any passengers of the pending sudden stop
 and the driver and passenger must be prepared to brace themselves in the event the retractor does not
 lock. Apply brakes firmly and make a very hard stop.

During the stop, seat belts should lock and not extend. If the seat belt retractor assembly does not lock, perform the retractor off-vehicle check.

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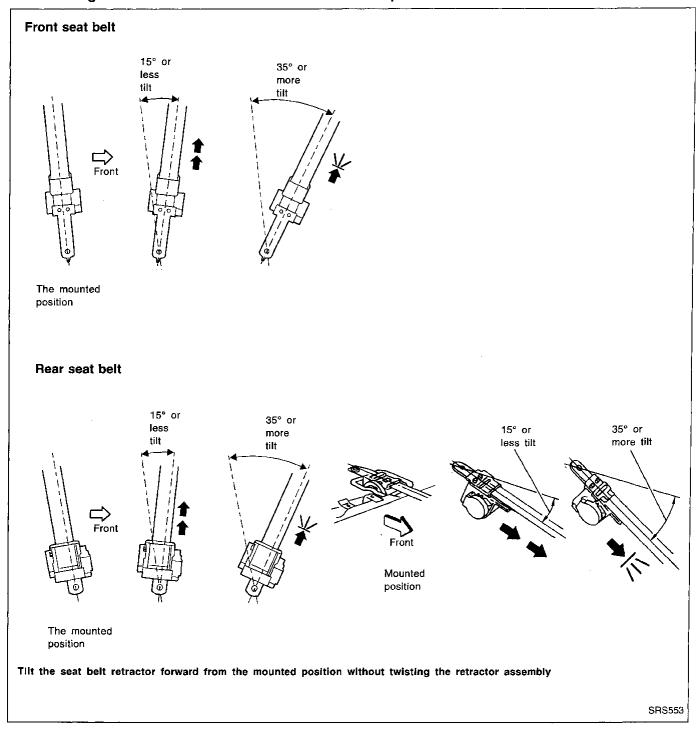
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SEAT BELTS

Seat Belt Inspection (Cont'd)

OFF-VEHICLE CHECK SEAT BELT RETRACTOR

- 1. Remove the seat belt retractor assembly.
- 2. Slowly pull out belt while tilting the retractor assembly forward from the mounted position without twisting the retractor assembly as shown in the illustration.
 - 15 degrees or less tilt: Belt can be pulled out.
 - 35 degrees or more tilt: Belt locks and cannot be pulled out.



If NG, replace the retractor assembly.

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 "()" 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.

EC 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.) Decription Tool name KV99106400 Disposing of air bag module (J38381) MIT Deployment tool AT NT357 KV991065S0 * Deployment tool adapters for seat belt For seat belt pre-tensioner and for passenger air bag (J38381-30) pre-tensioner module with black connector are not nec-Deployment tool RA adapters essary for servicing INFINITI I30 For passenger air bag module BR *Black NT743 KV99105300 Anchoring air bag module (J41246) Sī Air bag module bracket RS NT354 HT61961000 and Use for special bolts BI [TAMPER RESISTANT TORX (Size T50)] HT62152000 combined (J38219)*Special torx bit a: 3.5 (0.138) dia. HA b: 8.5 - 8.6 (0.335 - 0.339) dia. c: approx. 10 (0.39) sq. NT361 Unit: mm (in) EL KV999R0020 (J38381-50) For seat belt IDX Deployment tool adapters for pre-tensioner seat belt pre-tensioner

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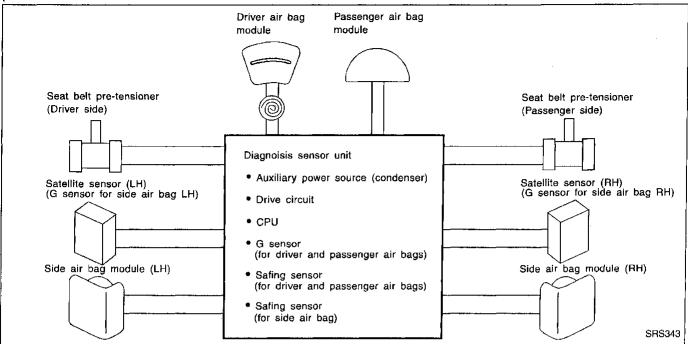
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^{*:} Special tool or commercial equivalent

Description

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

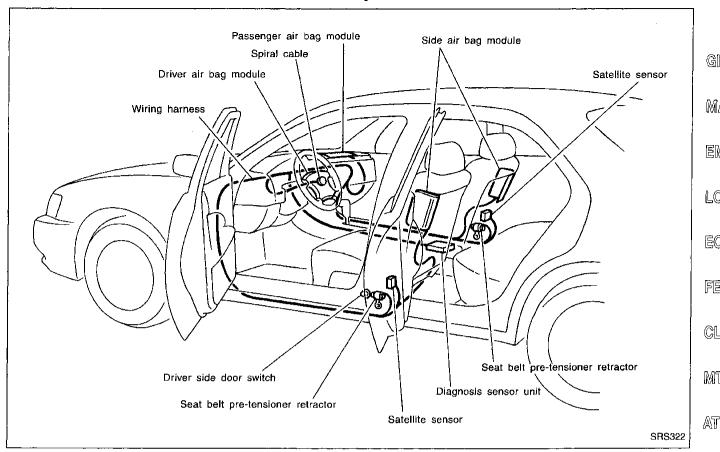


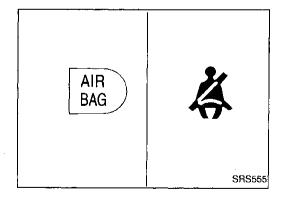
The collision modes for which supplemental restraint systems are activated are different among the SRS systems. For example, the driver air bag module and passenger air bag module are activated in a frontal collision but not in a side collision.

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

SRS configuration	Frontal collision	Left side collision	Right side collision
Driver air bag module	0		
Passenger air bag module	0		
Seat belt pre-tensioner (Driver side)	0		_
Seat belt pre-tensioner (Passenger side)	0	_	_
Side air bag module (LH)	_	0	_
Side air bag module (RH)	_	_	0

SRS Component Parts Location





Maintenance Items

Do not use a circuit tester to check SRS circuit.

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

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-35 or RS-36 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 after about 7 seconds after the ignition switch is turned "ON".

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Maintenance Items (Cont'd)

- 2. Visually check SRS components.
- (1) Diagnosis sensor unit
- Check diagnosis sensor unit and bracket for dents, cracks and deformities.
- Check connectors for damage and terminals for deformities.
- (2) Air bag module and steering wheel
- Remove air bag module from steering wheel, instrument panel or seatback. 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.
- Install passenger side air bag module to instrument panel to check fit or alignment with the instrument panel.
- Install side air bag module to seatback to check fit and alignment with the seat.
- (3) Spiral cable
- Check spiral cable for dents, cracks and deformities.
- Check connectors and protective tape for damage.
- Check steering wheel for noise, binding and heavy operation.
- (4) Main harness, air bag harness, body harness, side air bag module sub-harness
- Check connectors for poor connections, damage, and terminals for deformities.
- Check harnesses for binding, chafing and cuts.
- (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-36)
- (6) Satellite sensor
- Check satellite sensor (including bracket portion) for dents, cracks or deformities.
- Check connectors for damage, and terminals for deformities.

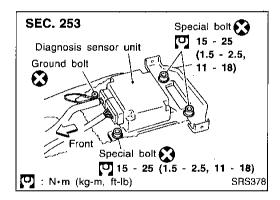
CAUTION:

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

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

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, seat belt pre-tensioner and satellite sensor for proper installation.
- Check diagnosis sensor unit and satellite sensor 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 and rust.
- After replacement of diagnosis sensor unit, seat belt pre-tensioner and satellite sensor, check SRS function and perform self-diagnosis for SRS. Refer to "Self-diagnosis" for details. (RS-35)
- Do not attempt to disassemble diagnosis sensor unit, seat belt pre-tensioner and satellite sensor.
- Replace diagnosis sensor unit, seat belt pre-tensioner and satellite sensor if it has been dropped or sustained an impact.
- Do not expose seat belt pre-tensioner to temperatures exceeding 80°C (176°F).



REMOVAL OF DIAGNOSIS SENSOR UNIT

- Disconnect driver, passenger and side 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.
- 4. 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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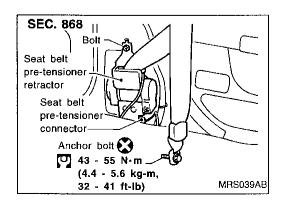
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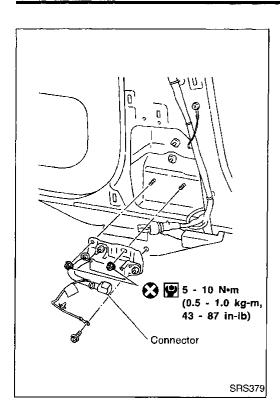
REMOVAL OF SEAT BELT PRE-TENSIONER

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 and Installation — Diagnosis Sensor Unit, Seat Belt Pre-tensioner and Satellite Sensor (Cont'd)

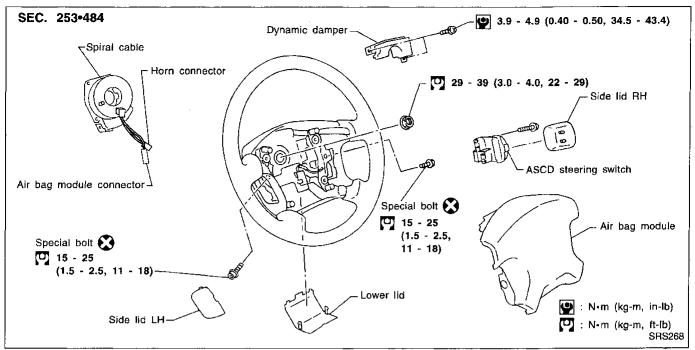
REMOVAL OF SATELLITE SENSOR

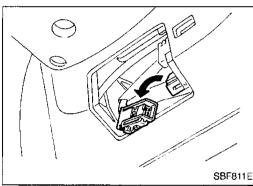
- Remove seat belt pre-tensioner. Refer to "Front Seat Belt" for details. (RS-4)
- 2. Disconnect satellite sensor connector.
- 3. Remove bolt and nuts from satellite sensor unit. Then remove the satellite sensor.

NOTE:

• To install, reverse the removal procedure sequence.

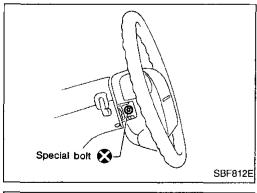
Removal — Air Bag Module and Spiral Cable







- 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.



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



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- 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.

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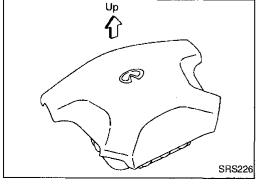
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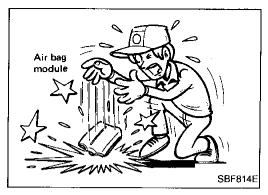
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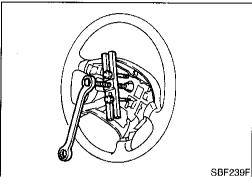






Removal — Air Bag Module and Spiral Cable (Cont'd)

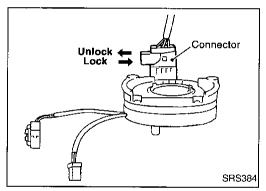
- Replace air bag module if it has been dropped or sustained an impact.
- Do not expose the air bag module to temperatures exceeding 90°C (194°F).
- Do not allow oil, grease or water to come in contact with the air bag module.



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

CAUTION:

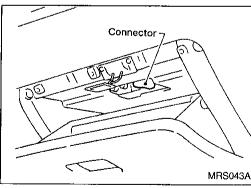
- Do not tap or bump the steering wheel.
- 6. Remove steering column cover.



 Unlock the spiral cable connector. Then, disconnect connector and remove the four screws. The spiral cable can then be removed.

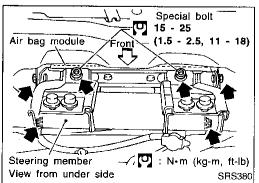
CAUTION:

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

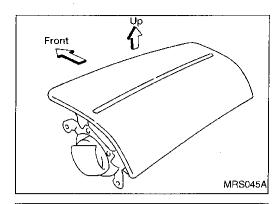


Removal — Front Passenger Air Bag Module CAUTION:

- 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.
- 1. Open the glove box lid.
- 2. Disconnect air bag module connector from body harness air bag connector.
- 3. Remove glove box assembly. Refer to "INSTRUMENT PANEL" in BT section for details.



- 4. Remove the nuts and special bolts using the TAMPER RESISTANT TORX (Size T50) from front passenger air bag module. Take out the air bag module from the instrument panel.
- The air bag module is heavy and should be supported using both hands during removal.



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.

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- 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.

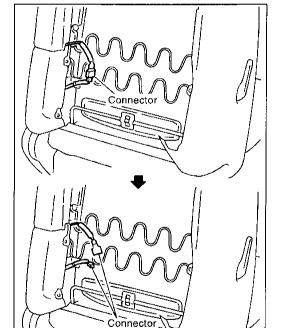
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Removal — Side Air Bag Module

CAUTION:

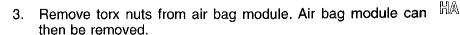
- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- Always work from the rear of air bag module.
- 1. Remove seatback finisher.
- When using a clip removal tool to remove the seatback finisher, take care not to damage the air bag harness.
- Disconnect side air bag module connector.

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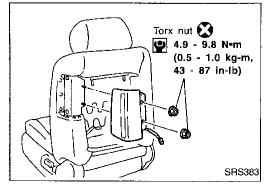
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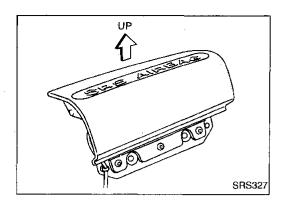
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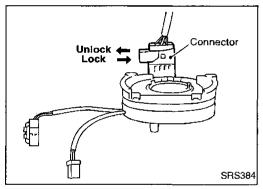
Removal — Side Air Bag Module (Cont'd)

CAUTION:

- Always place air bag module with pad side facing upward.
- Do not attempt to disassemble air bag module.
- The torx nuts are coated with bonding agent. Do not use old nuts after removal; replace with new coated nuts.
- Do not insert any foreign objects (screwdriver, etc.) into air bag module connector.

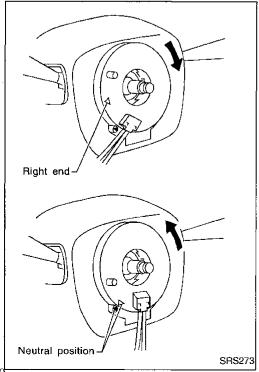


- Replace air bag module if it has been dropped or sustained an impact.
- Do not expose the air bag module to temperatures exceeding 90°C (194°F).
- Do not allow oil, grease or water to come in contact with the air bag module.
- After air bag inflates, the front seat should be replaced if damaged.



Installation — Air Bag Module and Spiral Cable

- 1. Set the front wheels in the straight-ahead position.
- 2. Connect spiral cable connector. Then, lock the connector and tighten with screws. Install steering column cover.



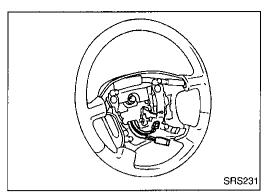
3. Make sure that the spiral cable is in the neutral position. The neutral position is detected by turning left about 2.5 revolutions from the right end position. Align the two marks (X).

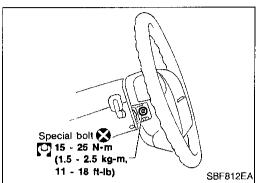
CAUTION:

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.





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

4. Install steering wheel setting spiral cable pin guides, and pull spiral cable through.

Connect horn connector and engage spiral cable with pawls in steering wheel. Move air bag module connector away from steering wheel lower lid opening.

6. Tighten nut.

[O]: 29 - 39 N m (3.0 - 4.0 kg-m, 22 - 29 ft-lb)

7. Install dynamic damper.

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8. Position air bag module and tighten with new special bolts.

Always service the air bag module from the side.

9. Connect air bag module connector.

10. Install all lids.

11. Conduct self-diagnosis, RS-35, to ensure entire SRS operates properly. (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 position.

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.

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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.

2. Install glove box assembly. (Glove box lid is open.)

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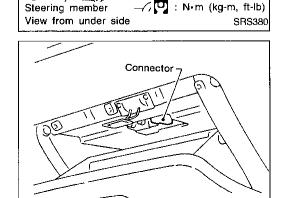
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3. Connect air bag module connector to body harness connector.

4. Close the glove box lid.

5. Connect both battery cables.

 Conduct self-diagnosis, RS-35, to ensure entire SRS operates properly. (Use CONSULT or warning lamp check.) $\mathbb{D}X$



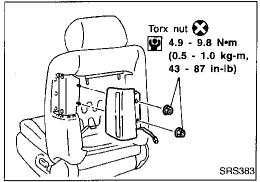
Air bag module

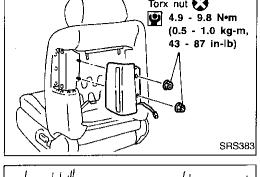
Special bolt

(1.5 - 2.5, 11 - 18)

MRS043A







Connector SRS382

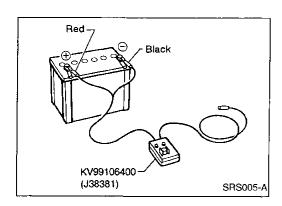
Installation — Side Air Bag Module

1. Install side air bag module on front seat.

- Connect side air bag module connector.
- Install seatback finisher with new clips. 3.
- Ensure harness is not caught between seatback finisher and seatback.
- Connect both battery cables.
- Conduct self-diagnosis, RS-35, to ensure SRS operates properly. (Use CONSULT or air bag 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 them as indicated in "DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER" (RS-25).
- 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.
- 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 the deployed air bag module and seat belt pre-tensioner.
- Wash your hands clean after finishing work.
- Place the vehicle outdoors with an open space of at least 6 m (20 ft) on all sides when deploying air bag module and seat belt pre-tensioner while mounted in vehicle.
- Use a voltmeter to make sure the vehicle battery is fully charged.
- Do not dispose of the air bag module and seat belt pre-tensioner un-deployed.



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

CHECKING DEPLOYMENT TOOL

Connecting to battery

CAUTION:

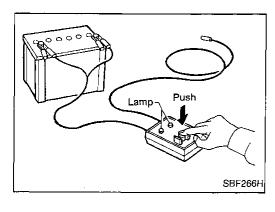
The battery must show voltage of 9.6V or more.

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

 Wait 3 minutes after the vehicle battery is disconnected before proceeding.

• Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.

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



Deployment tool check

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

Air bag deployment tool lamp illumination chart (Battery connected)

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

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













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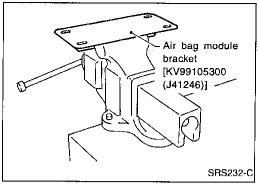


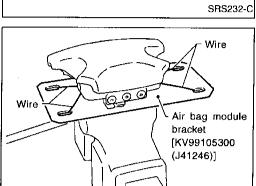


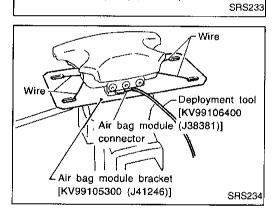


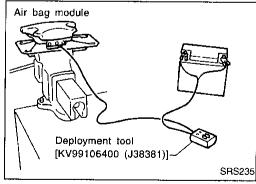


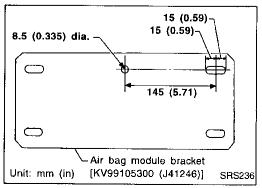












Disposal of Air Bag Module and Seat Belt Pre-tensioner (Cont'd)

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 bracket [KV99105300 (J41246)] 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.
- 3. Connect deployment tool [SST: KV99106400 (J38381)] to air bag module connector.

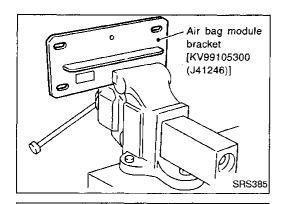
- 4. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
- 5. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
- 6. Press the button on the deployment tool. The left side lamp on the tool, marked "air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



Passenger air bag module

Air bag module

[KV99105300 (J41246)]

bracket

Air bag module

Deployment tool [KV99106400 (J38381)]

7@

Deployment

tool adapter

[KV991065S0

(J38381-30)]

Bolt

[M8 × 25 - 30 mm

Deployment tool

[KV99106400

(J38381)]

SRS386

SRS387

(0.98 - 1.18 in)]

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

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



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Match the two holes in air bag module bracket (held in vise) and passenger air bag module and fix them with two bolts [M8 × 25 - 30 mm (0.98 - 1.18 in)].



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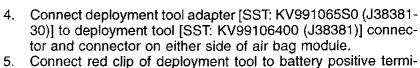


If a gap exists between passenger air bag module and air bag module bracket, use a piece of wood inserted in the gap to stabilize the air bag module.



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nal and black clip to negative terminal. The lamp on the right side of the tool, marked "deployment tool

power", should glow green, not red.

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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.

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CAUTION:

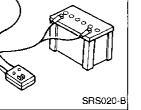
When deploying the air bag module, do not stand on the deploying side.

ST

Stand at least 5 m (16 ft) away from the air bag module.

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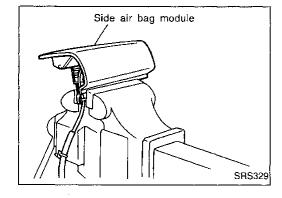
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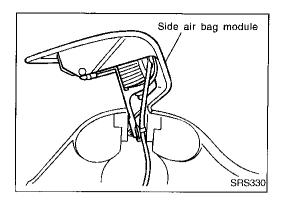


Deployment of side air bag module (outside of vehicle)

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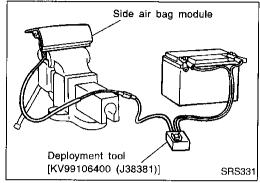
Firmly anchor side air bag module in a vise.





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

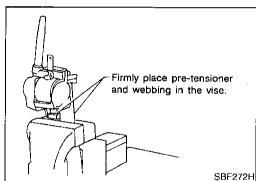
- The side air bag module must be installed in an oblique direction, not in a vertical direction. Refer to the figure at the left.
- Connect deployment tool [SST: KV99106400 (J38381)] to side air bag module connector.



- 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 "air bag module 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.

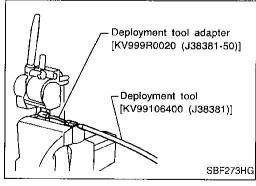


Deployment of seat belt pre-tensioner (outside of vehicle)

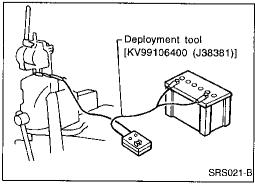
1. Firmly anchor seat belt pre-tensioner in a vise.

CAUTION:

Ensure bracket and webbing are placed in the vise.



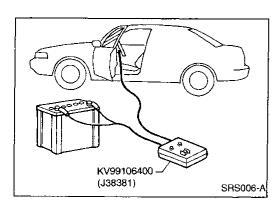
2. Connect deployment tool adapter [SST: KV999R0020 (J38381-50)] to deployment tool [SST: KV99106400 (J38381)] connector and seat belt pre-tensioner connector.



- 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.

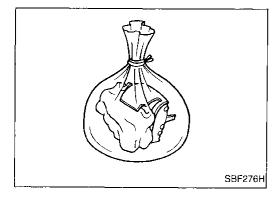
CAUTION:

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

- Disconnect both vehicle battery cables and wait 3 minutes.
- Disconnect air bag modules and seat belt pre-tensioners connector. Connect deployment tool [SST: KV99106400 (J38381)] to air
- bag module or seat belt pre-tensioner. For front passenger air bag module, attach deployment tool adapter [SST: KV991065S0 (J38381-30)] to the tool connector. For seat belt pre-tensioner, attach deployment tool adapter [SST: KV999R0020 (J38381-50)] 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 air bag module or seat belt pre-tensioner 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 cannot be re-
- Wash your hands clean after finishing work.

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Trouble Diagnoses Introduction

CAUTION:

- Do not use a circuit tester to check SRS harness connectors unless instructed to in this Service Manual. SRS wiring harnesses (except "SEAT BELT PRE-TENSIONER" connector) can be identified by yellow harness connector (and with yellow harness protector or yellow insulation tape before the harness connectors).
- 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.

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	<u> </u>	ON-OFF operation
CONSULT		X	Monitoring

DIAGNOSIS MODE FOR CONSULT

"SELF-DIAG [CURRENT]"

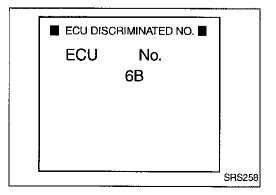
A current Self-diagnosis result (also indicated by the warning lamp flashes in the Diagnosis mode) is displayed on the CONSULT screen in real time. This refers to a malfunctioning part requiring repairs.

"SĚLF-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.

"TROŪBLE 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 I30, the diagnosis sensor unit classification number assigned is 6B.

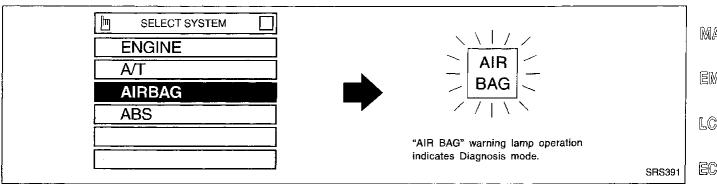
Trouble Diagnoses Introduction (Cont'd)

HOW TO CHANGE SELF-DIAGNOSIS MODE

With CONSULT

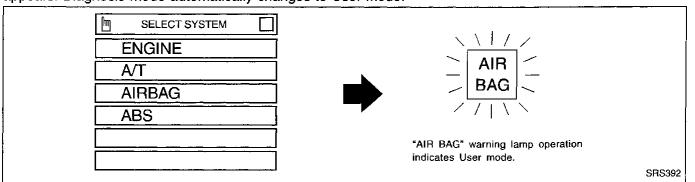
From User mode to Diagnosis mode

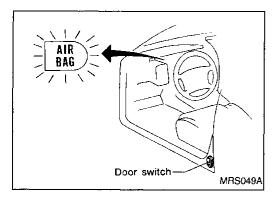
After selecting AIR BAG on the "SELECT SYSTEM" screen, User mode automatically changes to Diagnosis



From Diagnosis mode to User mode

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





Without CONSULT

From User mode to Diagnosis mode

Diagnosis mode activates only when a malfunction is detected, by pressing the driver's door switch at least 5 times within 7 seconds after turning the ignition "ON". SRS will not enter Diagnosis mode if no malfunction is detected.

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From Diagnosis mode to User mode

After a malfunction is repaired, switch the ignition "OFF" for at least 1 second, then back "ON". Diagnosis mode returns to User mode. If switching Diagnosis mode to User mode is required while malfunction is being detected, switch the ignition "OFF", then back "ON" and press the driver's door switch at least 5 times within 7 seconds.

配

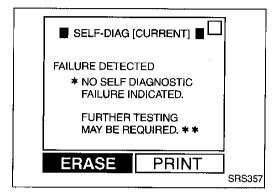
Trouble Diagnoses Introduction (Cont'd)

HOW TO ERASE SELF-DIAGNOSIS RESULTS

With CONSULT

"SELF-DIAG [CURRENT]"

A current Self-diagnosis result is displayed on the CONSULT screen in real time. After the malfunction is repaired completely, no malfunction is detected on "SELF-DIAG [CURRENT]".



"SELF-DIAG [PAST]"

Return to the "SELF-DIAG [CURRENT]" CONSULT screen by pushing "BACK" key of CONSULT and select "SELF-DIAG [CURRENT]" in "SELECT DIAG MODE". Touch "ERASE" in "SELF-DIAG [CURRENT]" mode.

NOTE:

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

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

Without CONSULT

After a malfunction is repaired, return to User mode from Diagnosis mode by switching the ignition "OFF" for at least 1 second, then back "ON". At that time, the problem code is cleared.

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 malfunction. It is important to fully understand the symptoms or conditions for a customer complaint.

INFORMATION FROM CUSTOMER

WHAT Vehicle model
WHEN Date, Frequencies
WHERE Road conditions
HOW Operating conditions, Symptoms

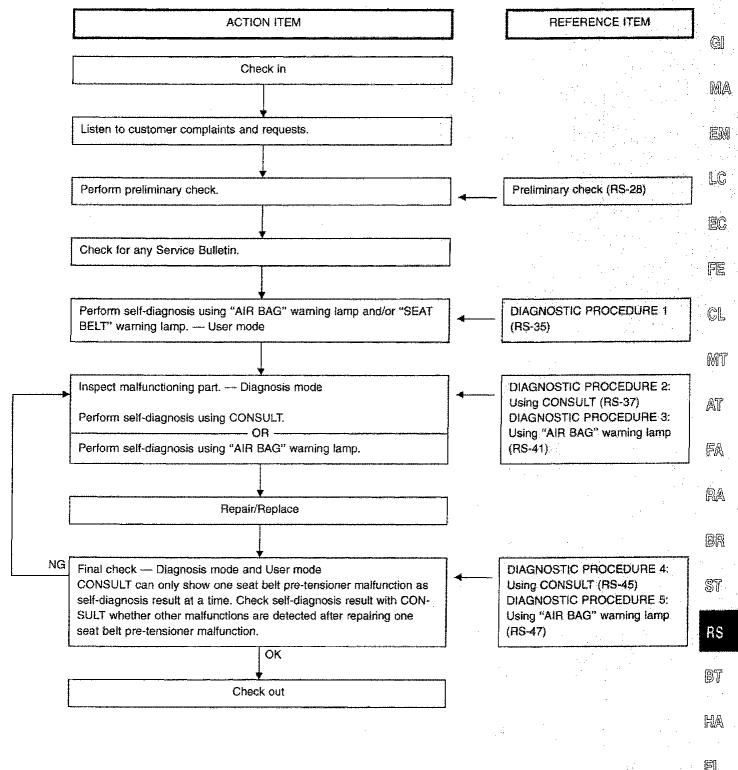
PRELIMINARY CHECK

Check that the following parts are in good order.

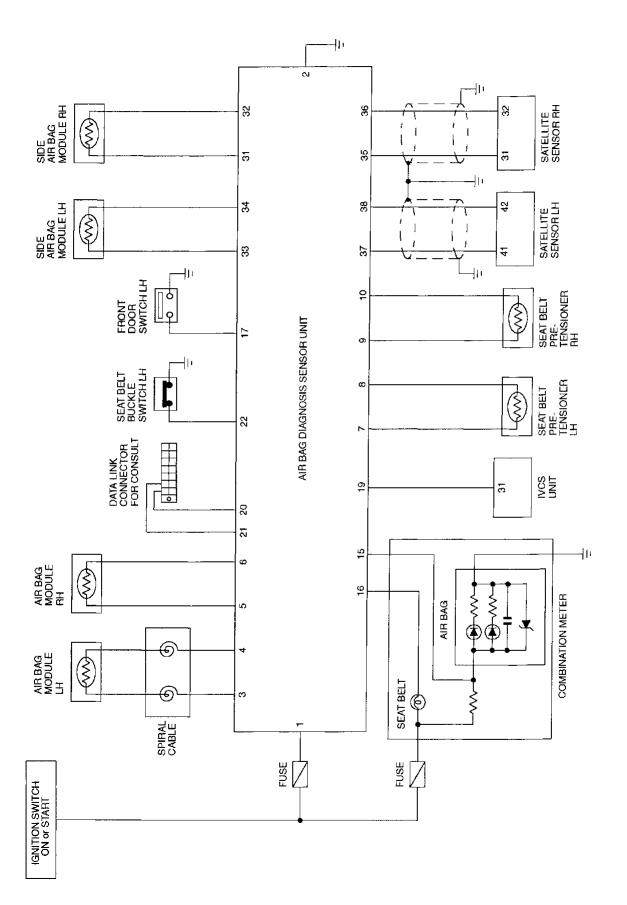
- Battery [Refer to EL section ("BATTERY").]
- Fuse [Refer to EL section ("Fuse", "POWER SUPPLY ROUTING").]
- System component-to-harness connections

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

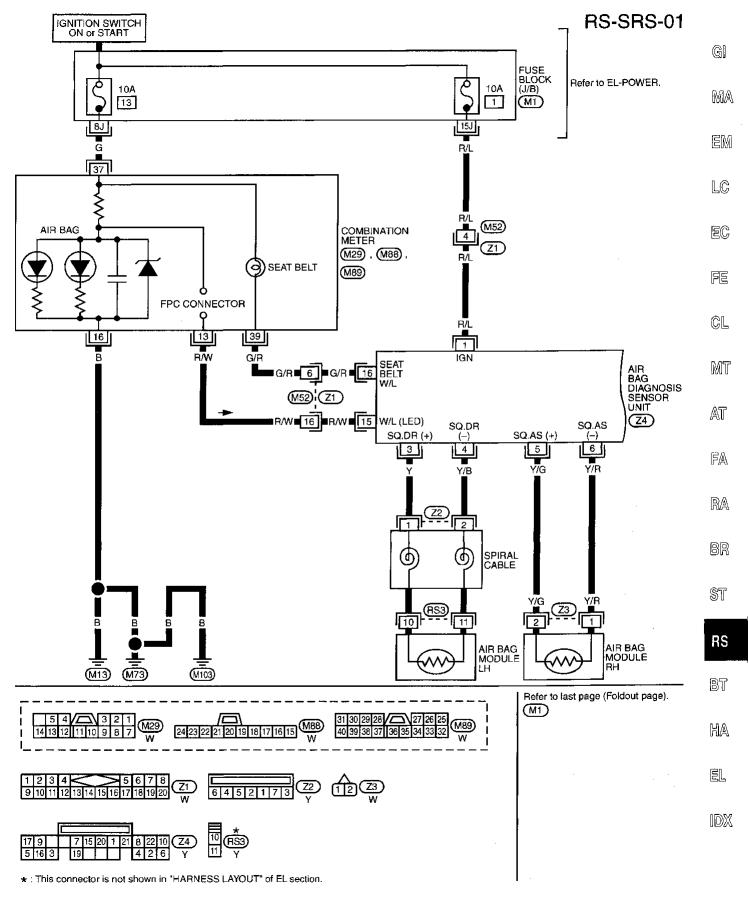
WORK FLOW



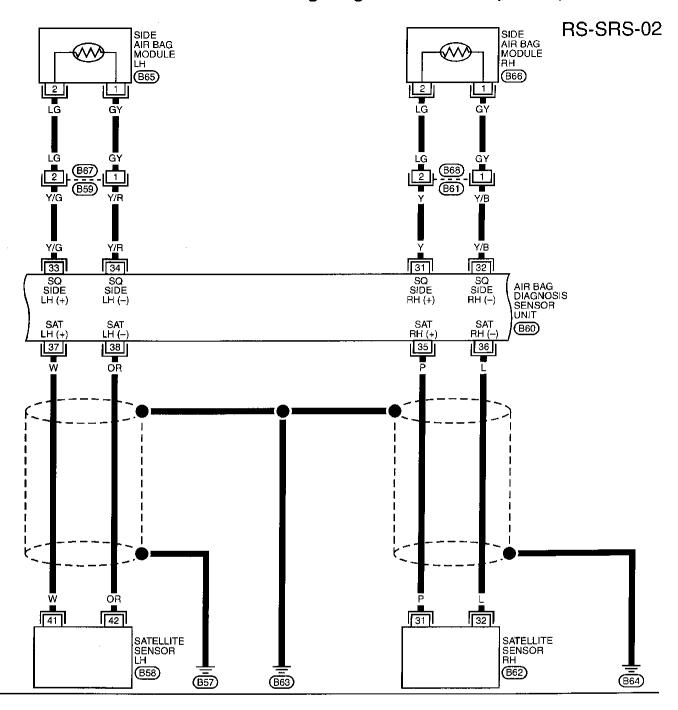
Schematic



Wiring Diagram — SRS —



Wiring Diagram — SRS — (Cont'd)

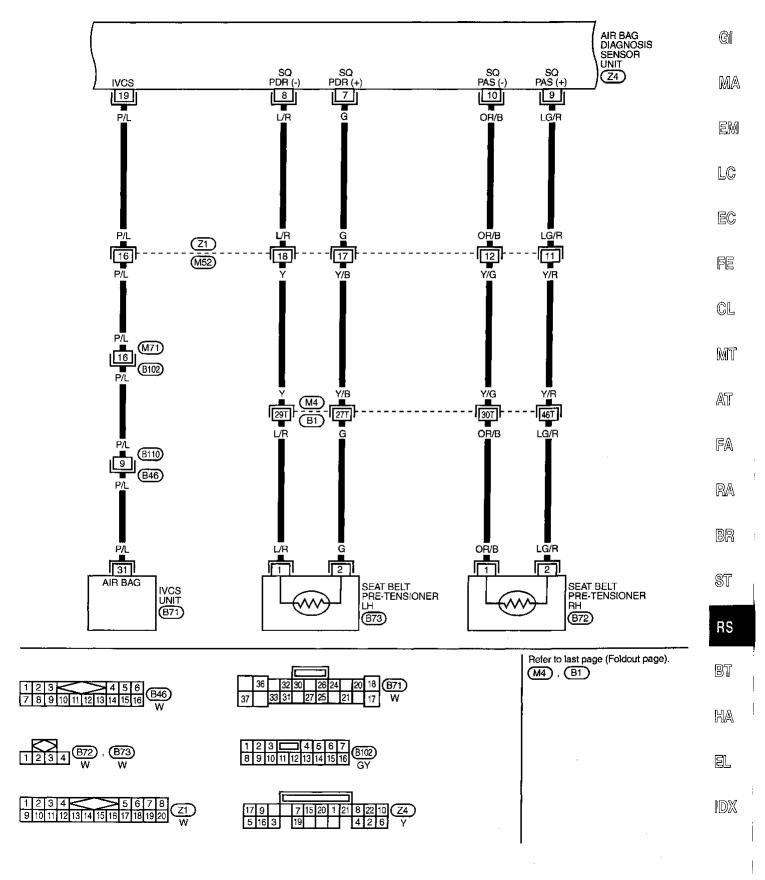






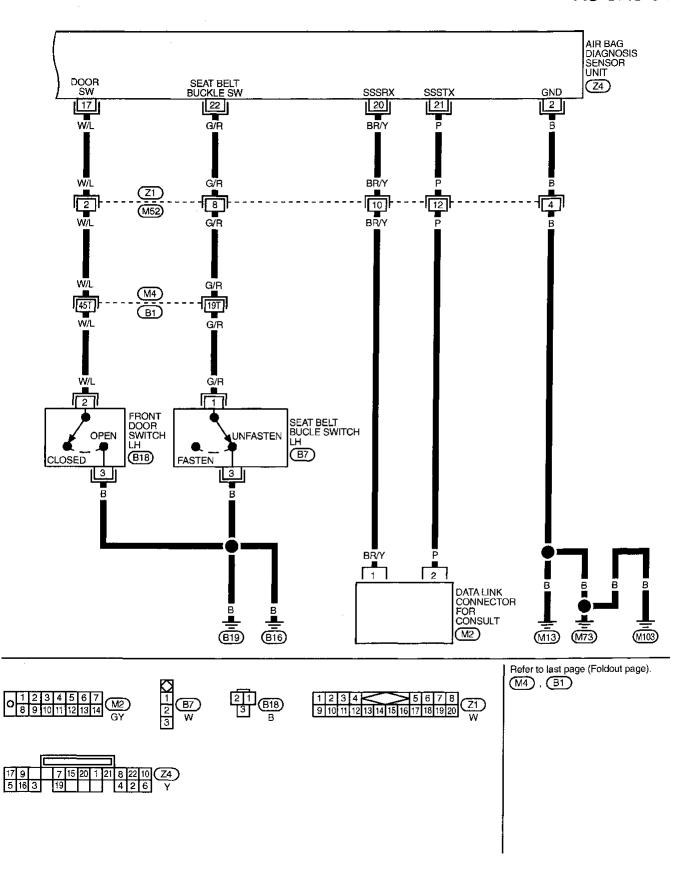
Wiring Diagram — SRS — (Cont'd)

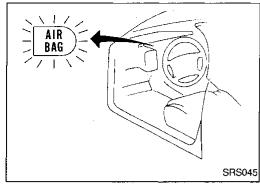
RS-SRS-03



Wiring Diagram — SRS — (Cont'd)

RS-SRS-04





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.
- 2. Compare "AIR BAG" warning lamp operation to the chart below.

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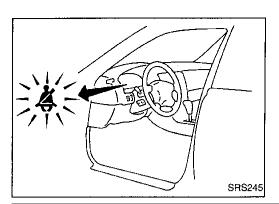
"AIR BAG" warning lamp operation — User mode —	SRS condition	Reference item
IGN ON 7 sec. MRS095A	No malfunction is detected. No further action is necessary.	_
IGN ON	The system is malfunction- ing and needs to be repaired as indicated.	Go to DIAGNOSTIC PRO- CEDURE 2 or 3 (RS-37 or 41).
0.5 sec. 0.5 sec. MRS096A		
IGN ON	Air bag is deployed.	Go to COLLISION DIAGNOSIS (RS-58).
	Air bag fuse, diagnosis sensor unit or harness is malfunctioning and needs to be repaired.	Go to DIAGNOSTIC PRO- CEDURE 9 (RS-54).
MRS097A	One of the following has	Go to DIAGNOSTIC PRO-
IGN ON	occurred and needs to be repaired. • Meter fuse is blown. • "AIR BAG" warning lamp circuit has open or short.	CEDURE 10 (RS-54).
MRS098A	 Diagnosis sensor unit is malfunctioning. 	

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-41.



Self-diagnosis (Cont'd)

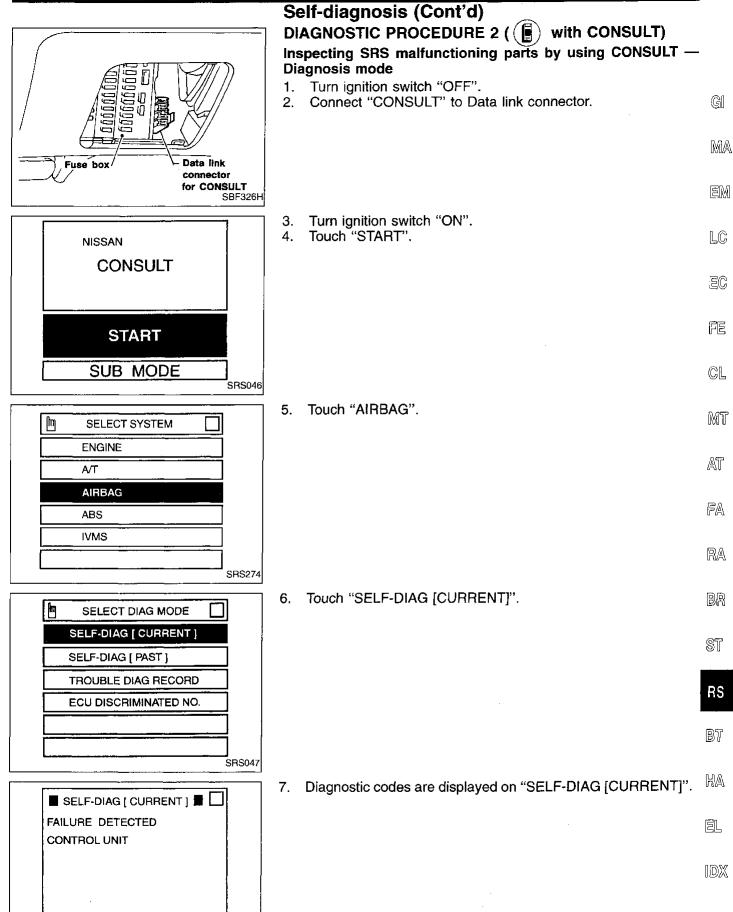


Checking seat belt pre-tensioner operation by using "SEAT BELT" warning lamp — User mode

- 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. ON OFF 7 sec. MRS095A When driver's seat belt has not been fastened. IGN ON OFF ON ON OFF ON ON OFF ON ON OFF ON OFF ON ON OFF ON ON OFF ON ON OFF ON ON ON ON OFF ON		 If CONSULT is available, go to DIAGNOSTIC PROCEDURE 2 (RS-37). 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.	Seat belt pre-tensioner (and air bag) is deployed.	Go to COLLISION DIAG- NOSIS (RS-58).
ON OFF MRS097A	Seat belt buckle switch, harness, combination meter assembly, diagnosis sensor unit are malfunctioning and need to be repaired.	Go to DIAGNOSTIC PRO- CEDURE 12 (RS-56).
IGN ON	Meter fuse, diagnosis sen- sor unit or "SEAT BELT" warning lamp circuit is shorted or open and needs to be repaired.	Go to DIAGNOSTIC PRO- CEDURE 13 (RS-57).
OFF MRS098A		

^{*} 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.



ERASE

PRINT

SRS048

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

Self-diagnosis (Cont'd)

If no malfunction is detected on "SELF-DIAG [CURRENT]" even though malfunction is detected in DIAGNOSTIC PROCEDURE 1, check the battery voltage. If the battery voltage is less than 9V, charge the battery. Then go to DIAGNOSTIC PROCEDURE 4 for final checking, page RS-45. If the battery voltage is OK, go to DIAGNOSTIC PROCEDURE 6, page RS-49, to diagnose the following situations:

- Self-diagnostic result "SELF-DIAG[PAST]" (previously stored in the memory) might not be erased after repair.
- The SRS system malfunctions intermittently.
- 8. Touch "PRINT".
- Compare diagnostic codes to the CONSULT DIAGNOSTIC CODE CHART, page RS-39.
- 10. Touch "BACK" key of CONSULT until SELECT SYSTEM appears in order to return to User mode from Diagnosis mode, 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 self-diagnostic result. For replacement procedure of component parts, refer to RS-13.
- 13. After repairing the system, go to DIAGNOSTIC PROCEDURE 4 for final checking, page RS-13.
 - CONSULT can only show one seat belt pre-tensioner malfunction as self-diagnosis result at a time. Check self-diagnosis result with CONSULT whether other malfunctions are detected after repairing one seat belt pre-tensioner malfunction.

Self-diagnosis (Cont'd)

CONSULT DIAGNOSTIC CODE CHART ("SELF-DIAG [CURRENT]")

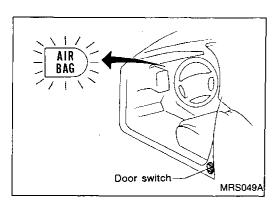
Diagnostic item	Explanation		Repair order Recheck SRS at each replacement.
NO SELF DIAGNOSTIC FAILURE INDICATED	When malfunction is indicated by the "AIR BAG" warning lamp in User mode	Low battery voltage (Less than 9V)	Go to DIAGNOSTIC PROCE- DURE 4 (RS-45) after charg- ing battery.
		 Self-diagnostic result "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased after repair. Intemittent malfunction has been detected in the past. 	Go to DIAGNOSTIC PROCE- DURE 6 (RS-49).
	No malfunction is detected.		Go to DIAGNOSTIC PROCE- DURE 4 (RS-45).
AIRBAG MODULE [OPEN]	Driver's air bag module circuit is	open. (including the spiral cable)	Visually check the wiring har- ness connection.
AIRBAG MODULE [VB-SHORT]	Driver's air bag module circuit is shorted to some power supply circuit. (including the spiral cable)		Replace the harness if it has visible damage. Replace the spiral cable.
AIRBAG MODULE [GND-SHORT]	Driver's air bag module circuit is shorted to ground. (including the spiral cable)		4. Replace driver's air bag mod- ule. (Before disposal of it, it must
AIRBAG MODULE [SHORT]	Driver's air bag module circuits are shorted to each other.		be deployed.) 5. Replace the diagnosis sensor unit.
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.
ASSIST A/B MODULE [OPEN]	Front passenger air bag module circuit is open.		Replace the harness if it has visible damage. Replace front passenger air
ASSIST A/B MODULE [GND-SHORT]	Front passenger air bag module circuit is shorted to ground.		bag module. (Before disposal of it, it must
ASSIST A/B MODULE [SHORT]	Front passenger air bag module circuits are shorted to each other.		be deployed.) 4. Replace the diagnosis sensor unit.
SIDE MODULE LH [OPEN]	Side air bag module (LH) circuit is open.		Visually check the wiring harness connection.
SIDE MODULE LH [VB-SHORT]	Side air bag module (LH) circuit is shorted to some power supply circuits.		Replace the harness if it has visible damage. Replace side air bag module
SIDE MODULE LH [GND-SHORT]	Side air bag module (LH) circuit	Side air bag module (LH) circuit is shorted to ground.	
SIDE MODULE LH [SHORT]	Side air bag module (LH) circuits	Side air bag module (LH) circuits are shorted to each other.	
SIDE MODULE RH [OPEN]	Side air bag module (RH) circuit is open.		Visually check the wiring harness connection. Replace the harness if it has
SIDE MODULE RH [VB-SHORT]	Side air bag module (RH) circuit circuits.	Side air bag module (RH) circuit is shorted to some power supply circuits.	
SIDE MODULE RH [GND-SHORT]	Side air bag module (RH) circuit is shorted to ground.		3. Replace side air bag module (RH). (Before disposal, it must be
SIDE MODULE RH [SHORT]	Side air bag module (RH) circuits are shorted to each other.		deployed.) 4. Replace the diagnosis sensor unit.

Self-diagnosis (Cont'd)

Diagnostic item	Explanation	Repair order Recheck SRS at each replacement.	
SATELLITE SENS LH [UNIT FAIL]	Satellite sensor (LH)	Visually check the wiring harness connection. Replace the harness if it has	
SATELLITE SENS LH [COMM FAIL]		visible damage. 3. Replace the satellite sensor (LH). 4. Replace the diagnosis sensor unit.	
SATELLITE SENS RH [UNIT FAIL] SATELLITE SENS RH [COMM FAIL]	Satellite sensor (RH)	 Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the satellite sensor (RH). Replace the diagnosis sensor unit. 	
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. (Before disposing, it must be deactivated.) Replace the diagnosis sensor unit.	
DRIVE PRE-TENSION [GND-SHORT]	The circuit for the driver's pre-tensioner is shorted to ground.		
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. (Before disposing, it must be deactivated.) Replace the diagnosis sensor unit. 	
ASSIST PRE-TENSION [GND-SHORT]	The circuit for the front passenger pre-tensioner is shorted to ground.		
CONTROL UNIT • Diagnosis sensor unit is malfunctioning.		 Visually check the wiring harness connections. Replace the diagnosis sensor unit. 	

^{*} Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using the air bag 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.

CONSULT can only show one seat belt pre-tensioner malfunction as self-diagnosis result at a time. Check self-diagnosis result with CONSULT whether other malfunctions are detected after repairing one seat belt pre-tensioner malfunction.



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.

Open driver's door.

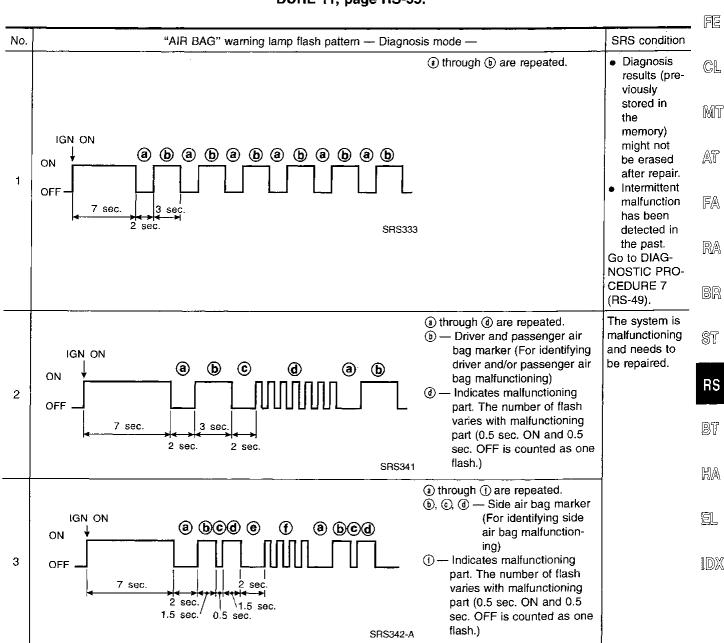
Turn ignition switch from "OFF" to "ON".

Press driver's door switch at least 5 times within 7 seconds after turning ignition switch "ON". SRS is now in Diagnosis mode.

"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 PROCE-DURE 11, page RS-55.



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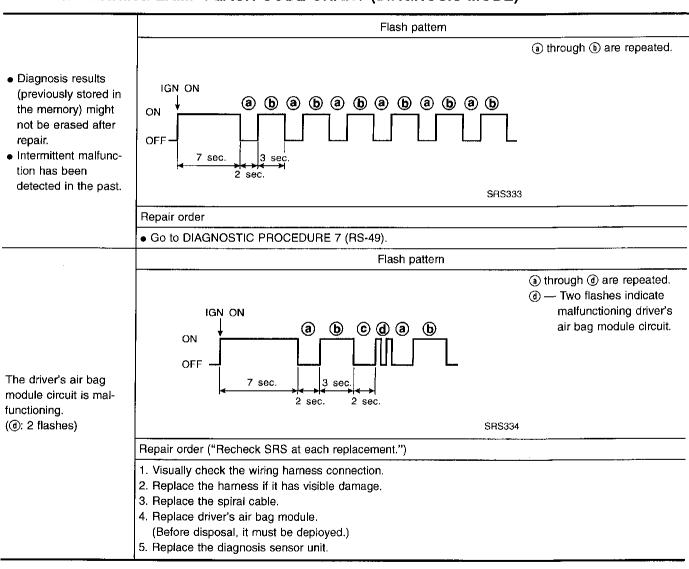
LC

Self-diagnosis (Cont'd)

- Malfunctioning part is indicated by the number of flashes (part

 or (). Compare the number of flashes to AIR BAG WARN-ING LAMP FLASH CODE CHART, page RS-42, and locate malfunctioning part.
- 6. Turn ignition switch "OFF", and disconnect both battery cables.
- 7. 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-13.
- 8. After repairing the system, go to DIAGNOSTIC PROCEDURE 5, page RS-47.

AIR BAG WARNING LAMP FLASH CODE CHART (DIAGNOSIS MODE)



Self-diagnosis (Cont'd) Flash pattern (a) through (d) are repeated. d - Seven flashes indicate IGN ON malfunctioning diagno-G sis sensor unit. (a) **(b) (c)** (a) ON The diagnosis sensor MA OFF unit is malfunctioning. 7 sec. 3 sec (d: 7 flashes) 2 sec. 2 sec. EM **SRS335** Repair order ("Recheck SRS at each replacement.") LC 1. Visually check the wiring harness connections. 2. Replace the diagnosis sensor unit. EC Flash pattern (a) through (d) are repeated. d — Eight flashes indicate Æ malfunctioning front IGN ON passenger air bag mod-(a) **(b)** ON ule circuit. CL OFF The front passenger air 7 sec bag module circuit is MIT 2 sec. malfunctioning. (@: 8 flashes) **SRS336** Repair order ("Recheck SRS at each replacement.") 1. Visually check the wiring harness connection. FA 2. Replace the hamess if it has visible damage. 3. Replace front passenger air bag module. (Before disposal, it must be deployed.) RA 4. Replace the diagnosis sensor unit. Flash pattern BR (a) through (f) are repeated. (f) - One flash indicates mal-IGN ON functioning side air bag **a bcd efa bcd** module (RH) circuit. ON OFF RS The side air bag module 7 sec. (RH) circuit is malfunc-2 sec. tioning. 1.5 sec. 1.5 sec. (①: 1 flash) **SRS338** Repair order ("Recheck SRS at each replacement.") MA 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace side air bag module (RH). EL (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit.

TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)

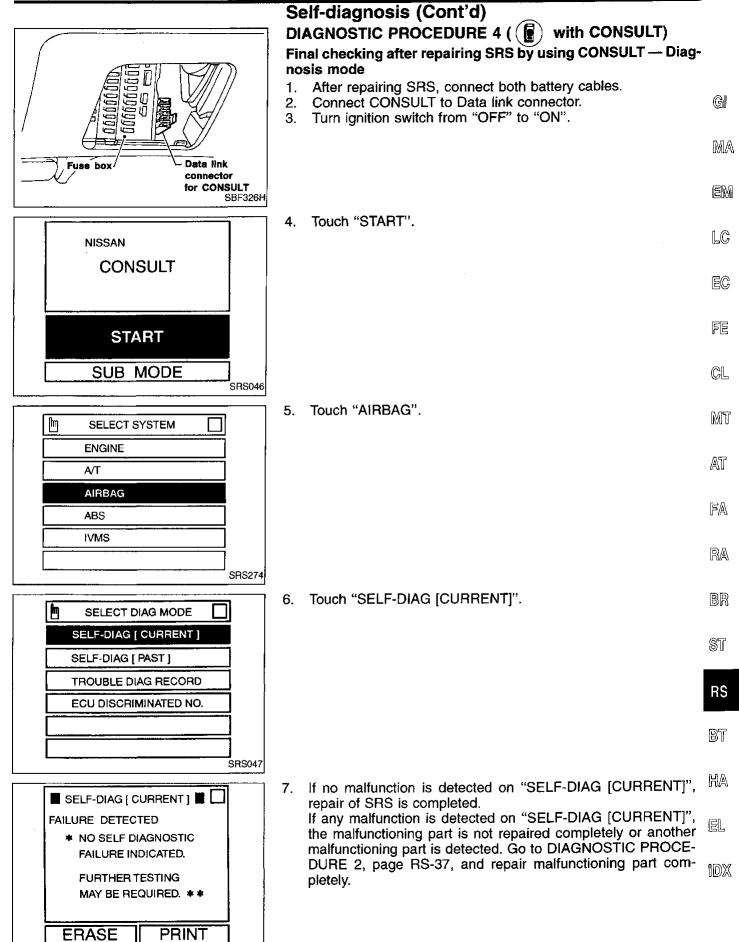
TROUBLE DIAGNOSES — Supplemental Restraint System (SRS) Self-diagnosis (Cont'd) Flash pattern (a) through (f) are repeated. (i) — Two flashes indicate malfunctioning side air IGN ON a bcd e f a bcd bag module (LH) circuit. ON OFF The side air bag module 7 sec sec. (LH) circuit is malfunc-2 sec. 1.5 sec. tioning. 1.5 sec. 0.5 sec. (1): 2 flashes) **SRS337** Repair order ("Recheck SRS at each replacement.") 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace side air bag module (LH). (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. Flash pattern (a) through (f) are repeated. Three flashes indicate malfunctioning satellite IGN ON (a) (b)(c)(d) (e) (a) (b)(c)(d) sensor (RH) circuit. ON OFF The satellite sensor 7 sec. sec (RH) is malfunctioning. 2 sec \1.5 sec. (f): 3 flashes) 1.5 sec. 0.5 sec SRS340 Repair order ("Recheck SRS at each replacement.") 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the satellite sensor (RH). 4. Replace the diagnosis sensor unit. Flash pattern (a) through (1) are repeated. Four flashes indicate malfunctioning satellite IGN ON (b)(c)(d) (e) (a) (b)(c)(d) sensor (LH) circuit. ON OFF The satellite sensor 7 sec. sec (LH) is malfunctioning. 2 sec. ackslash 1.5 sec. (1): 4 flashes) 1.5 sec. 0.5 sec. SRS339-A Repair order ("Recheck SRS at each replacement.")

4. Replace the diagnosis sensor unit.

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.

Visually check the wiring harness connection.
 Replace the harness if it has visible damage.

3. Replace the satellite sensor (LH).



SRS049

FAILURE DETECTED * NO SELF DIAGNOSTIC FAILURE INDICATED, FURTHER TESTING MAY BE REQUIRED. * * ERASE PRINT SRS357

Self-diagnosis (Cont'd)

8. Touch "ERASE".

NOTE:

Touch "ERASE" to clear the memory of the malfunction ("SELF-DIAG [PAST]").

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

SELECT DIAG MODE

SELF-DIAG [CURRENT]

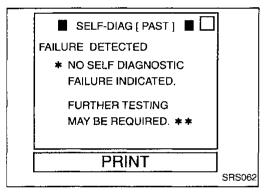
SELF-DIAG [PAST]

TROUBLE DIAG RECORD

ECU DISCRIMINATED NO.

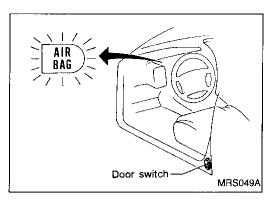
SRS050

 Touch "BACK" key of CONSULT to select "SELF-DIAG [PAST]" in the "SELECT DIAG MODE" screen. Touch "SELF-DIAG [PAST]".



Check that no malfunction is detected on "SELF-DIAG [PAST]".

- 11. Touch "BACK" key of CONSULT until SELECT SYSTEM appears in order to return to User mode from Diagnosis mode, turn off CONSULT, then disconnect CONSULT.
- 12. Turn ignition switch "OFF".
- Go to DIAGNOSTIC PROCEDURE 1, page RS-35 to check SRS operation by using "AIR BAG" warning lamp with User mode.



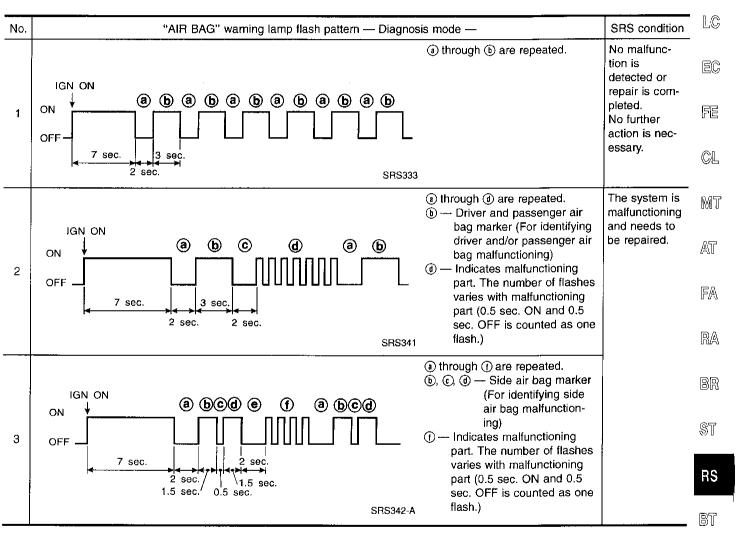
Self-diagnosis (Cont'd)

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 Diagnosis mode as follows:

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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.



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Self-diagnosis (Cont'd)

5. 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 and to erase the memory of the malfunction. Then go to step 6.

If "AIR BAG" warning lamp operates as shown in No. 2 or No. 3 in chart above, the malfunctioning part is not repaired completely, or another malfunctioning part is detected. Go to DIAGNOSTIC PROCEDURE 3, page RS-41, and repair malfunctioning part completely.

functioning part completely.

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

NOTE:

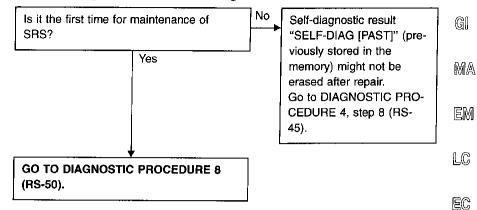
If switching Diagnosis mode to User mode is required while malfunction is being detected, turn ignition switch from "OFF" to "ON". Then press driver's door switch at least 5 times within 7 seconds after turning ignition switch "ON". SRS is now in User mode.

"AIR BAG" warning lamp operation — User mode —	SRS condition	Reference item
IGN ON ON OFF 7 sec. MRS09	No malfunction is detected. No further action is necessary.	
ON GEN ON OFF 0.5 sec. 0.5 sec. MRS09	The system is malfunctioning and needs to be repaired as indicated.	Go to DIAGNOSTIC PRO- CEDURE 2 or 3 (RS-37 or 41).
IGN ON	Air bag is deployed.	Go to COLLISION DIAGNOSIS (RS-58).
ON OFF MRS09	Air bag fuse, diagnosis sensor unit or harness is malfunctioning and needs to be repaired.	Go to DIAGNOSTIC PRO- CEDURE 9 (RS-54).
IGN ON ON	One of the following has occurred and needs to be repaired. • Meter fuse is blown. • "AIR BAG" warning lamp circuit has open or short.	Go to DIAGNOSTIC PRO- CEDURE 10 (RS-54).
MRS09:	Diagnosis sensor unit is malfunctioning.	

Self-diagnosis (Cont'd)

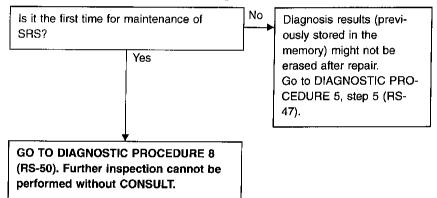
DIAGNOSTIC PROCEDURE 6 (Continued from DIAGNOSTIC PROCEDURE 2) (with CONSULT)

Inspecting SRS malfunctioning record



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

Inspecting SRS malfunctioning record



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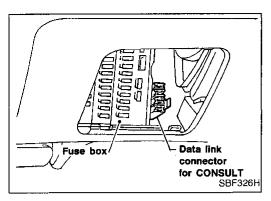
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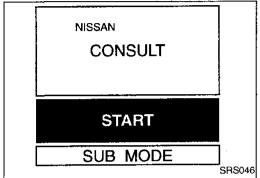


Self-diagnosis (Cont'd)

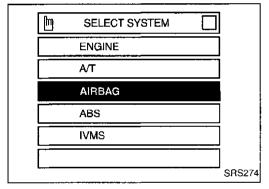
DIAGNOSTIC PROCEDURE 8 (with CONSULT)
Inspecting SRS intermittent malfunction by using CONSULT

— Diagnosis mode

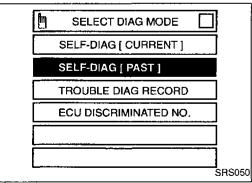
- 1. Turn ignition switch "OFF".
- 2. Connect "CONSULT" to Data link connector.



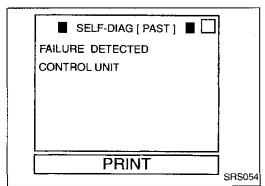
- 3. Turn ignition switch "ON".
- 4. Touch "START".



5. Touch "AIRBAG".



Touch "SELF-DIAG [PAST]".

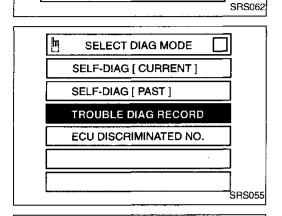


7. If diagnostic codes are displayed on "SELF-DIAG [PAST]", go to step 10.

Self-diagnosis (Cont'd)

■ SELF-DIAG [PAST] ■ □ "BACK" and go "BAC

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

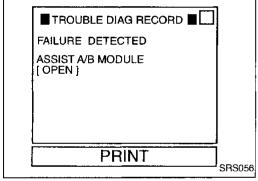


PRINT

8. Touch "TROUBLE DIAG RECORD".

NOTE: With TROUBLE DIAG RECORD, diagnosis results previously erased by a reset operation can be displayed.

Diagnostic code is displayed on "TROUBLE DIAG RECORD".



10. Touch "PRINT".

11. Compare diagnostic codes to the INTERMITTENT MALFUNCTION DIAGNOSTIC CODE CHART, page RS-52.

12. 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 MALFUNCTION DIAGNOSTIC CODE CHART, that corresponds to the self-diagnostic result. For replacement procedure of component parts, refer to RS-13.

15. Go to DIAGNOSTIC PROCEDURE 4, page RS-45, for final checking.

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Self-diagnosis (Cont'd)

INTERMITTENT MALFUNCTION DIAGNOSTIC CODE CHART (SELF-DIAG [PAST] or TROUBLE DIAG RECORD)

Diagnostic item	Explanation		Repair order		
NO SELF DIAGNOSTIC FAILURE INDICATED.	When malfunction is indicated by the "AIR BAG" warning lamp in User mode	Low battery voltage (Less than 9V)	Go to DIAGNOSTIC PRO- CEDURE 4 (RS-45) after charging battery.		
	No malfunction is detected.		Go to DIAGNOSTIC PRO- CEDURE 4 (RS-45).		
AIRBAG MODULE [OPEN]	Driver's air bag module circuit cable)	Driver's air bag module circuit is open. (including the spiral cable)			
AIRBAG MODULE [VB-SHORT]	•	Driver's air bag module circuit is shorted to some power supply circuit. (including the spiral cable)			
AIRBAG MODULE [GND-SHORT]	Driver's air bag module circuit is shorted to ground. (including the spiral cable)		module. (Before disposal of it, it must be deployed.)		
AIRBAG MODULE [SHORT]	Driver's air bag module circuits	are shorted to each other.	Replace the spiral cable. Replace the diagnosis sensor unit.		
ASSIST A/B MODULE [VB-SHORT]	Front passenger air bag modul power supply circuit.	e circuit is shorted to some	Visually check the wiring harness connection. Parkers the barrage if it has		
ASSIST A/B MODULE [OPEN]	Front passenger air bag modul	 Replace the harness if it has visible damage. Replace front passenger air 			
ASSIST A/B MODULE [GND-SHORT]	(Before disp		bag module. (Before disposal of it, it must be deployed.)		
ASSIST A/B MODULE [SHORT]	Front passenger air bag module other.	e circuits are shorted to each	 Replace the diagnosis sensor unit. 		
SIDE MODULE LH [OPEN]	Side air bag module (LH) circuit is open. Side air bag module (LH) circuit is shorted to some power supply circuits.		 Visually check the wiring harness connection. Replace the harness if it has 		
SIDE MODULE LH [VB-SHORT]			visible damage. Replace side air bag module		
SIDE MODULE LH [GND-SHORT]	Side air bag module (LH) circui	t is shorted to ground.	(LH). (Before disposal, it must be deployed.)		
SIDE MODULE LH [SHORT]	Side air bag module (LH) circur	ts are shorted to each other.	Replace the diagnosis sensor unit.		
SIDE MODULE RH [OPEN]	Side air bag module (RH) circuit	t is open.	Replace side air bag module (LH). (Before disposal, it must be		
SIDE MODULE RH [VB-SHORT]	 Side air bag module (RH) circui ply circuits. 	t is shorted to some power sup-			
SIDE MODULE RH [GND-SHORT]	Side air bag module (RH) circui	t is shorted to ground.			
SIDE MODULE RH [SHORT]	Side air bag module (RH) circui	ts are shorted to each other.	deployed.) Replace the diagnosis sensor unit.		

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

Diagnostic item	Explanation	Repair order	
SATELLITE SENS LH [UNIT FAIL] SATELLITE SENS LH [COMM FAIL]	Satellite sensor (LH)	 Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the satellite sensor (LH). Replace the diagnosis sensor unit. 	G M
SATELLITE SENS RH [UNIT FAIL]	Satellite sensor (RH)	 Visually check the wiring harness connection. Replace the harness if it has 	
SATELLITE SENS RH [COMM FAIL]		visible damage. • Replace the satellite sensor (RH).	L
		 Replace the diagnosis sensor unit. 	ĒC
CONTROL UNIT	Diagnosis sensor unit is malfunctioning.	 Visually check the wiring harness connection. Replace the diagnosis sensor unit. 	FE

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

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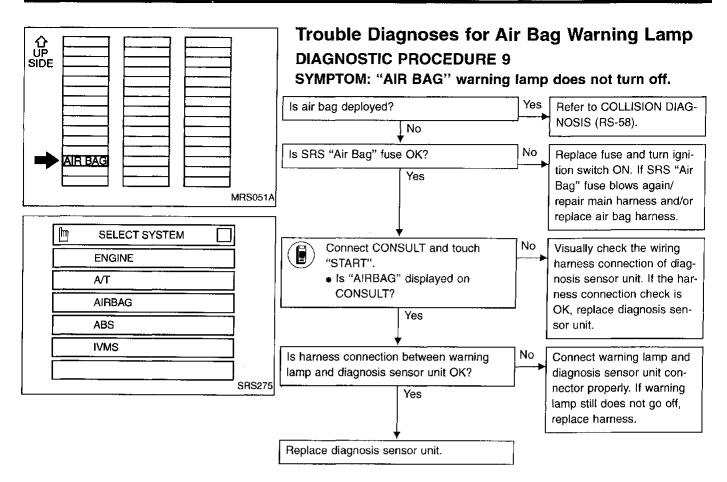
RA

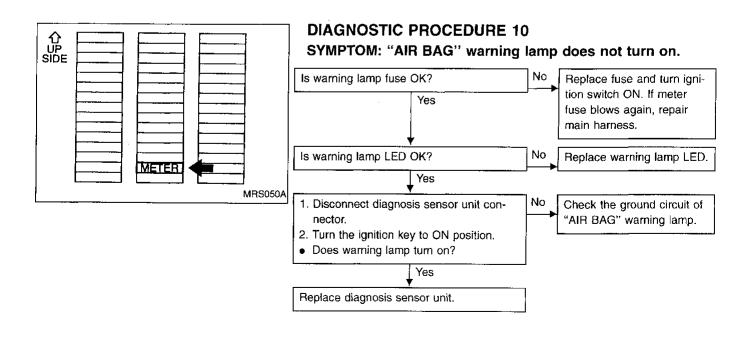
RS

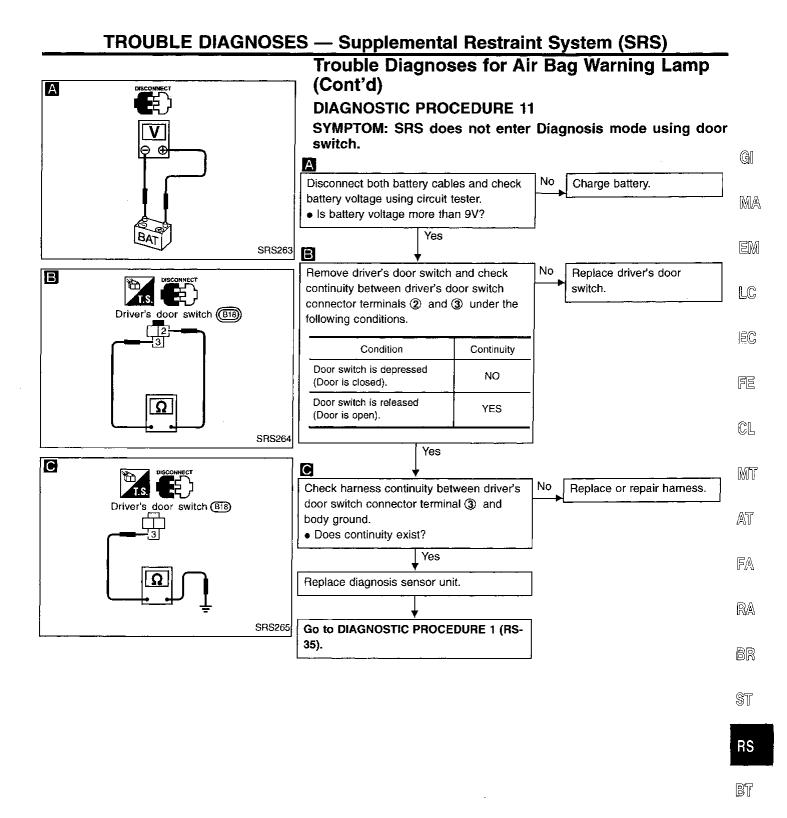
BT

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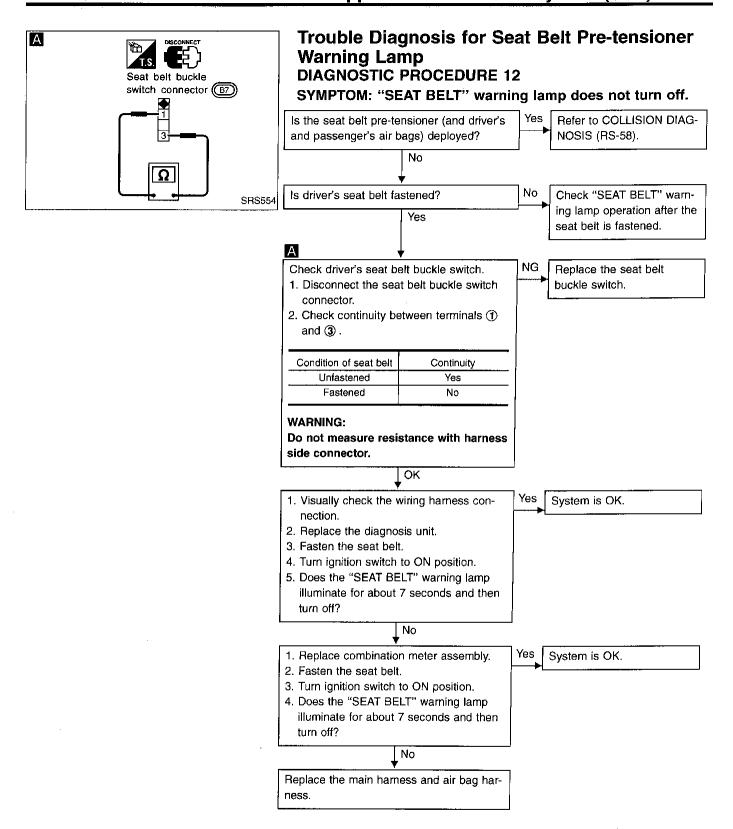




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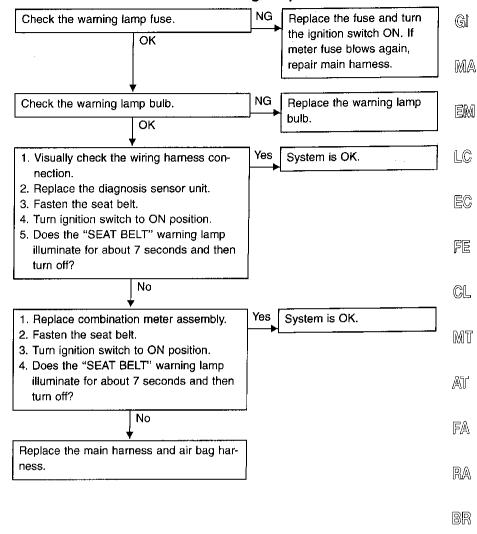
IIDX



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

DIAGNOSTIC PROCEDURE 13

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



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COLLISION DIAGNOSIS

FOR FRONTAL COLLISION

To repair the SRS for a frontal collision, perform the following steps.

When SRS (except the side air bag) is activated in a collision:

- 1 Replace the diagnosis sensor unit.
- 2 Remove the air bag modules (except the side air bag module).
- 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 (except the side air bag module).
- (5) Conduct self-diagnosis using CONSULT, and "AIR BAG" warning lamp. Refer to "Self-diagnosis" for details (RS-35). 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" warning lamp. Refer to "Self-diagnosis" for details (RS-35). Ensure entire SRS operates properly.

SRS inspection

Part	SRS (except the side air bag) is activated	SRS is NOT activated	
Air bag module (driver and passen- ger side)	REPLACE Install air bag mod- ule 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 seat belt pre- tensioner with new bolts.	 Remove seat belt pre-tensioners. 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. If no damage is found, reinstall with new bolts. If damaged—REPLACE. Seat belt pre-tensioners must be deployed before discarding. 	
Diagnosis sensor unit	REPLACE Install diagnosis sen- sor unit 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. Install diagnosis sensor unit with new bolts.	
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. 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 it. 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.		
Instrument panel	Refer to the table on the next page.		

COLLISION DIAGNOSIS

Part	SRS (except the side air bag) is activated	SRS is NOT activated		
Instrument panel	When passenger air Opening portion for	bag inflates, check the following points for bending, deformities or cracks. or passenger air bag		G(
		Check points		L©
	 Passenger air bag 	g module brackets	SRS388	EC
		FIELD STEEL		FE
·				CL
				Mī
		Check points	SRS389	AT
	The portions secu	uring the instrument panel		FA
				RA
		: Check points		ST

2. If no damage is found, reinstall the instrument panel.3. If damaged—REPLACE the instrument panel with bolts.

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FOR SIDE COLLISION

To repair the SRS for a side collision, perform the following steps.

When the side air bag is activated in the side collision:

- 1 Replace the following component:
 - Diagnosis sensor unit
 - Satellite sensor (on the side on which side air bag is activated)
- 2 Remove the deployed side air bag module.
- (3) Check the SRS components and the related parts using the table shown below.
 - Replace any SRS components and the related parts showing visible signs of damage (dents, cracks, deformation).
- (4) Install new side air bag module (on the side on which side air bag has been activated) with new nuts.
- (5) Conduct self-diagnosis using CONSULT, and "AIR BAG" warning lamp. Refer to "Self-diagnosis" for details (RS-35). Ensure entire SRS operates properly.

When SRS is not activated in the side collision:

- (1) Check the SRS components and the related parts using the table shown below.
 - Replace any SRS components and the related parts showing visible signs of damage (dents, cracks, deformation).
- ② Conduct self-diagnosis using CONSULT, and "AIR BAG" warning lamp. Refer to "Self-diagnosis" for details (RS-35). Ensure entire SRS operates properly.

In the case of the side collision

Part	Side air bag is acti- vated	SRS is NOT activated	
Side air bag module (LH or RH)	REPLACE the deployed side air bag module with new nuts. (Repair or replace seatback, etc. before installing new one if damaged.)	 Check for visible signs of damage (dents, cracks, deformation) of the side air bag module on the collision side. Remove the side air bag module on the collision side. Check harness and connectors for damage, and terminals for deformities. Install side air bag module into the seat to check fit with the seat. If no damage is found, reinstall the side air bag module with new special nuts. If damaged—REPLACE it with the special nuts. Air bag must be deployed before disposing of it. 	
Satellite sensor (LH or RH)	REPLACE the satel- lite sensor on the collision side with new nuts. (Repair the center pillar inner, etc. before installing new one if damaged.)	 Remove the satellite sensor on the collision side. Check harness connectors for damage, terminals for deformities, and harness for binding. Check for visible signs of damage (dents, cracks, deformation) of the satellite sensor. Install the satellite sensor to check fit. If no damage is found, reinstall the satellite sensor with new nuts. If damaged—REPLACE the satellite sensor with the nuts. 	
Diagnosis sensor unit	REPLACE the diag- nosis sensor unit with the 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 the diagnosis sensor unit with new special bolts and ground bolt. 4. If damaged—REPLACE the diagnosis sensor unit with the special bolts and ground bolt.	
Seat belt pre-ten- sioner assembly	1. Check if the seat belt can be extended smoothly. If the seat belt cannot be extended smoothly. - Check for deformities of the center pillar inner. - If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly. 2. Remove the seat belt pre-tensioner assembly on the collision side. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 3. Check for visible signs of damage (dents, cracks, deformation) of the seat belt pre-tensioner assembly. 4. If no damage is found, reinstall the seat belt pre-tensioner assembly with new bolts. 5. If damaged—REPLACE the seat belt pre-tensioner assembly with the bolts. The seat belt pre-tensioner assembly must be deployed before disposing of it.		
Seat	 Visually check the seat on the collision side. Remove the seat on the collision side and check the following for damage and deformities. Harness, connectors and terminals Frame, recliner, adjuster and slides Install the side air bag module into the seat to check fit with the seat. If no damage is found, reinstall the seat. If damaged—REPLACE the damaged seat parts with new bolts. 		
Center pillar inner	Check the center pillar inner on the collision side for damage (dents, cracks, deformation). If damaged—REPLACE the center pillar inner.		