RESTRAINT SYSTEM

SECTION RS

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Precautions

SUPPLEMENTAL RESTRAINT SYSTEM (SRS) "AIR BAG" AND "SEAT BELT PRE-TENSIONER"

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The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER" used along with a seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. The Supplemental Restraint System consists of driver air bag module (located in the center of the steering wheel), front passenger air bag module (located on the instrument panel on passenger side), seat belt pre-tensioners, a diagnosis sensor unit, warning lamp, wiring harness and spiral cable.

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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 should be performed by an authorized NISSAN dealer.

• Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system.

EC

 Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. Spiral cable and wiring harnesses (except "SEAT BELT PRE-TENSIONER") covered with yellow insulation either just before the harness connectors or for the complete harness are related to the SRS.

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PRECAUTIONS FOR SEAT BELT SERVICE

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CAUTION:

• Before removing the seat belt pre-tensioner assembly, turn the ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.

After replacing or reinstalling seat belt pre-tensioner assembly, or reconnecting seat belt pre-tensioner assembly connector, ensure entire SRS operates properly. Refer to "SRS Operation Check", RS-35.

AT

- Do not disassemble buckle or seat belt assembly.
- Do not reuse seat belt anchor bolts after removal. Replace with new ones.

TF

Replace anchor bolts if they are deformed or worn out.

PD

Never oil tongue and buckle.

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• If any component of seat belt assembly is questionable, do not repair. Replace the whole seat belt assembly.

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If webbing is cut, frayed, or damaged, replace seat belt assembly.

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• When replacing seat belt assembly, use a genuine NISSAN seat belt assembly.

WARNING:

After A Collision

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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.

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Replace any seat belt assembly if:

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 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).

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• The seat belt was damaged in an accident. (i.e., torn webbing, bent retractor or guide, etc.)

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• 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.

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Anchor bolts are deformed or worn out.

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• 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.

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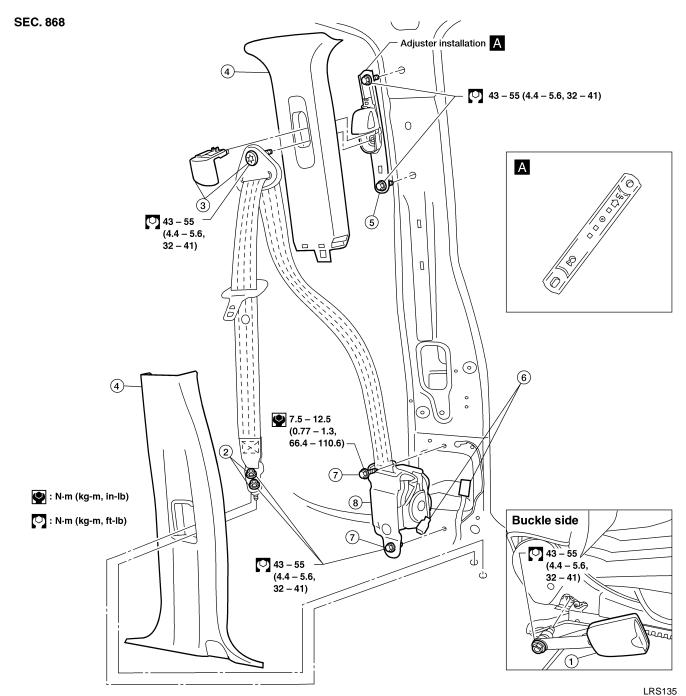
Front Seat Belt

REMOVAL AND INSTALLATION

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Slide the seat all the way forward and tilt the seatback toward the front.

- 1. Remove buckle. For driver side, disconnect seat belt switch connector.
- 2. Remove floor anchor bolts.
- 3. Remove adjuster cover and upper guide loop anchor bolt.
- 4. Remove center pillar lower and upper garnishes. Refer to BT-24, "SIDE AND FLOOR TRIM".
- 5. Remove two adjuster bolts and adjuster assembly.
- 6. Disconnect seat belt pre-tensioner connector.
- 7. Remove retractor anchor bolt and screw.
- 8. Remove retractor.



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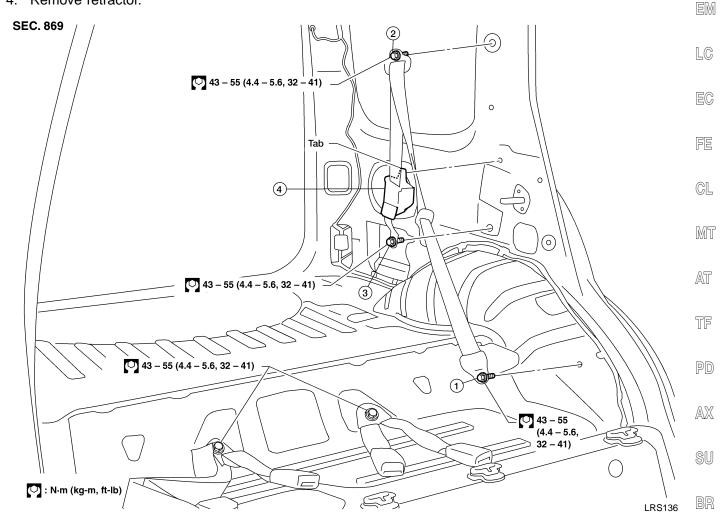
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Rear Seat Belt

REMOVAL AND INSTALLATION

Remove rear seat. Refer to BT-38, "REAR SEAT".

- 1. Remove lower seat belt anchor bolt.
- 2. Remove shoulder anchor bolt.
- 3. Remove retractor bolt.
- 4. Remove retractor.



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Seat Belt Inspection

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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 assemblies which are equipped with pre-tensioners should be replaced even if the seat belts are not in use during a frontal collision in which the air bags are deployed.

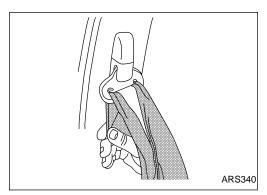
Replace any seat belt assembly or anchor bolt if:

- The seat belt was in use at the time of a collision (except after minor collisions when 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 assembly is equipped with a pre-tensioner, even if the seat belt is not in use during a collision in which the air bags are deployed.

PRELIMINARY CHECKS

NGRS0029S02

- 1. Check the "SEAT BELT" warning lamp for proper operation as follows:
- a. Switch ignition ON. With driver seat belt unfastened, 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.
- c. If the "AIR BAG" warning lamp is blinking, conduct self-diagnosis using "AIR BAG" warning lamp or CON-SULT-II. Refer to "SRS Operation Check", RS-35.
- 2. 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 return smoothly, wipe the inside of the loops with a clean paper cloth etc. Dirt built up in the loops of the upper anchors can cause the seat belts to retract 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.
- 5. For non-retractable seat belts, check that the seat belts are accessible. Check seat belt webbing for twists, tears or other damage. Fasten the seat belt. Pull firmly on belt and buckle to ensure belt remains latched. Unfasten seat belts. Ensure belt releases freely and buckle button returns to original position.
- 6. Repeat steps above as necessary to check the other seat belts.

SEAT BELT RETRACTOR ON-VEHICLE CHECK

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

=NGRS0029S03 NGRS0029S0301

All seat belt retractors are of the Emergency Locking (ELR) type. In an emergency (sudden stop) the retractor will lock and prevent the belt from extending any further. All outboard 3-point type seat belt retractors except the driver's seat belt also have an Automatic Locking (ALR) mode. The ALR mode (also called child restraint mode) is used when installing child seats in outboard seating positions. 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.

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

ELR Function Stationary Check

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

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ALR Function Stationary Check

1. Pull out entire length of seat belt from retractor until a click is heard.

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- 2. Retract the belt partially. A clicking noise should be heard as the belt retracts, indicating that the retractor is in the Automatic Locking (ALR) mode.
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- Grasp the seat belt and try to pull out of retractor. The belt must lock and not extend any further. If NG, replace the retractor assembly.
- 4. Allow the entire length of the belt to retract to cancel the automatic locking mode.

ELR Function Moving Check (all outboard seating positions)

NGRS0029S0303

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 roads, gravel roads, public streets or 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.

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- 1. Fasten driver's seat belt. Buckle a passenger into the seat for the belt that is to be tested.
- Proceed to the designated safe area.

3. Drive the vehicle at approximately 16 km/h (10 MPH). Notify any passengers of a 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.

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During 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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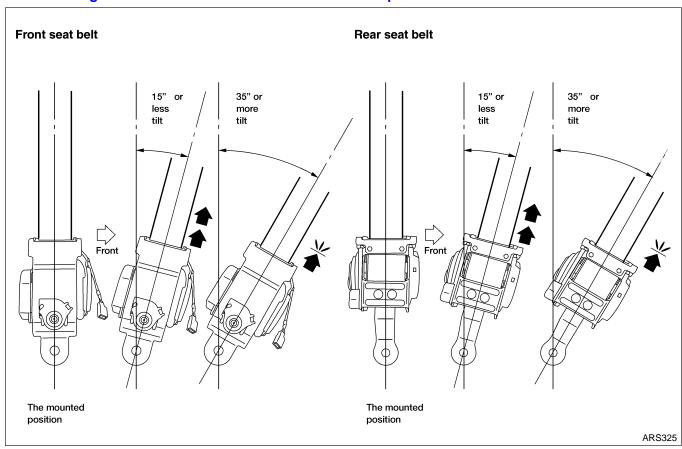
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SEAT BELT RETRACTOR OFF-VEHICLE CHECK

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- 1. Remove the seat belt retractor assembly.
- 2. Slowly pull out belt while tilting the retractor assembly forward from the mounted position 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.

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Tether Anchor Plate REMOVAL AND INSTALLATION

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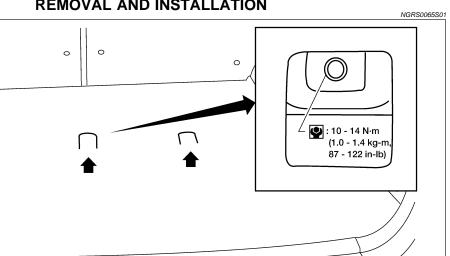
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Precautions

SUPPLEMENTAL RESTRAINT SYSTEM (SRS) "AIR BAG" AND "SEAT BELT PRE-TENSIONER"

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The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER" used along with a seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. The Supplemental Restraint System consists of driver air bag module (located in the center of the steering wheel), front passenger air bag module (located on the instrument panel on passenger side), seat belt pre-tensioners, a diagnosis sensor unit, warning lamp, wiring harness and spiral cable.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance should be performed by an authorized NISSAN dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. Spiral cable and wiring harnesses (except "SEAT BELT PRE-TENSIONER") covered with yellow insulation either just before the harness connectors or for the complete harness are related to the SRS.

PRECAUTIONS FOR SRS "AIR BAG" AND "SEAT BELT PRE-TENSIONER" SERVICE

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- 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 bags and seat belt pre-tensioners to deploy. Therefore, do not work on any SRS connectors or wires until at least 3 minutes have passed.
- Air bag diagnosis sensor unit must always be installed with forward mark "

 " pointing toward the front of
 the vehicle for proper operation. Also check air bag diagnosis sensor unit for deformities, dents, cracks
 and rust before installation and replace as required.
- The spiral cable must be aligned in the neutral position since its rotations are limited. Do not rotate steering column while steering gear is removed to avoid damaging spiral cable.
- Handle air bag module carefully. Always place it with air bag lid surface facing upward.
- Conduct Self-diagnosis to check entire SRS for proper function after replacing any components. Refer to "SRS Operation Check", RS-35.
- After air bag inflates, the instrument panel assembly should be replaced if damaged.

WIRING DIAGRAMS AND TROUBLE DIAGNOSIS

NGRS0007

- When you read wiring diagrams, refer to the following:
- Refer to *EL-9*, "POWER SUPPLY ROUTING" for power distribution circuit.

When you perform trouble diagnosis, refer to the following:

Refer to *GI-10*, "HOW TO READ WIRING DIAGRAMS".

- Refer to GI-33, "How to Follow Test Groups in Trouble Diagnoses".
- Refer to GI-22, "HOW TO PERFORM EFFICIENT DIAGNOSIS FOR AN ELECTRICAL INCIDENT".

Preparation

SPECIAL SERVICE TOOLS

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

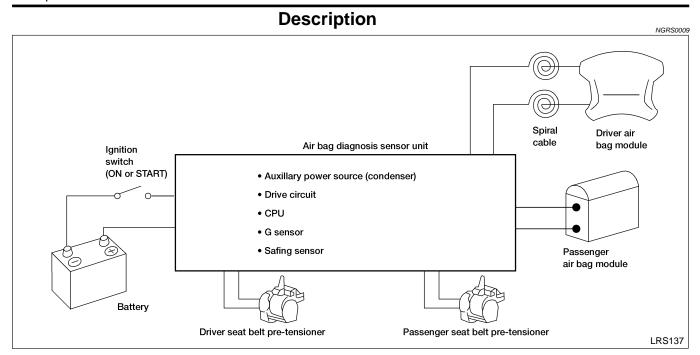




Tool number	ools may differ from those of special service tools	mustrated riere.	-
(Kent-Moore No.) Tool name	Description		[
KV991072S0 (J38381-KIT) Air bag deployment kit KV99106400 (J38381)		Disposing of air bag module and seat belt pre-tensioner	-
Deployment tool			
	NT357		
KV991065S0 (J38381-30) Deployment tool adapters	For seat belt pre-tensioner		_
	pre-tensioner		
	For passenger air bag module White		
	Wille		
KV99109000	ARS269		-
(J44230) Deployment tool adapter for driver air bag module and seat belt pre-tensioner	For driver air bag module and seat belt		
seat beit pre-tensioner	pre-tensioner		
	LRS138		
KV99105300 (J41246) Air bag module bracket		Anchoring air bag module	_
All bag module bracket			
J–42057) ir bag master key set	NT354	Removing and installing accessory air bag locking bolts.	_ !
	121		
	LRS210		

^{*:} Special tool or commercial equivalent

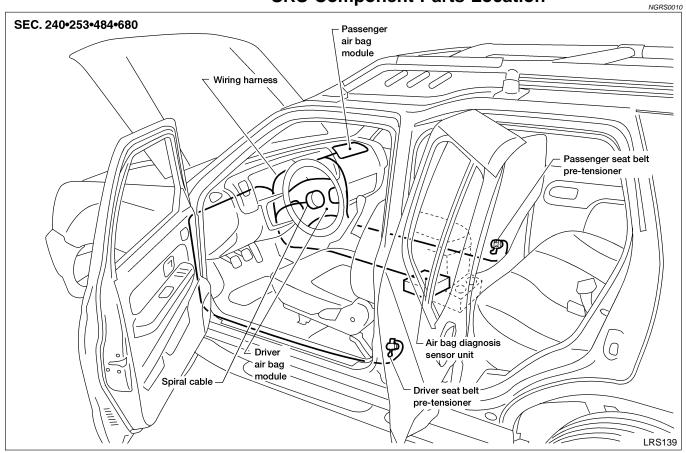
LRS210



The air bags and seat belt pre-tensioners deploy if the air bag diagnosis sensor unit activates while the ignition switch is in the ON or START position.

The air bag diagnosis sensor unit will deploy the air bags and seat belt pre-tensioners if the G sensor activates simultaneously with the safing sensor while the ignition switch is ON.

SRS Component Parts Location





Maintenance Items

CAUTION:

NGRS0011

Do not use electrical test equipment to check any SRS circuit.

Check "AIR BAG" warning lamp operation After turning ignition switch ON, "AIR BAG" warning lamp illuminates. The "AIR BAG" warning lamp will turn off after about 7 seconds if no malfunction is detected.

If any of the following "AIR BAG" warning lamp conditions occur, immediately check the air bag system. Refer to "SRS Operation Check", RS-35 for details.

- The "AIR BAG" warning lamp does not illuminate when the ignition switch is turned ON.
- The "AIR BAG" warning lamp does not turn off about 7 seconds after the ignition switch is turned ON.
- The "AIR BAG" warning lamp blinks after illuminating for about 7 seconds after the ignition switch is turned ON.
- Visually check SRS components
- Air bag diagnosis sensor unit
- Check air bag diagnosis sensor unit and bracket for dents, cracks, deformities and rust.
- Check connectors for damage and terminals for deformities.
- Air bag modules, steering wheel and instrument panel
- Remove driver air bag module from steering wheel. Check harness cover and connectors for damage, terminals for deformities and harness for binding.
- Install driver air bag module to steering wheel to check fit or alignment with the wheel.
- Check steering wheel for excessive free play.
- Remove passenger air bag module. Check harness cover and connectors for damage, terminals for deformities and harness for binding. Check the bracket for deformities and rust.
- Install passenger air bag module in instrument panel to check fit or alignment with the instrument panel.
- Spiral cable
- Check spiral cable for dents, cracks, deformities and rust.
- Check connectors and protective tape for damage.
- Check steering wheel for noise, binding and heavy operation.
- d. 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 "AIR BAG" warning lamp or CONSULT-II. Refer to "Checking Air Bag Operation by Using "AIR BAG" Warning Lamp — User Mode", RS-35.
- Main harness and body harnesses
- Check connectors for poor connections, damage, and terminals for deformities.
- Check harnesses for binding, chafing and cuts.

CAUTION:

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

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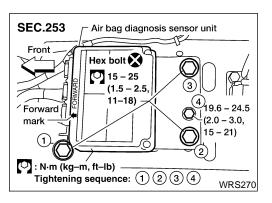
Diagnosis Sensor Unit REMOVAL AND INSTALLATION

CAUTION:

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

NGRS0012

- The special bolts are coated with bonding agent while the other bolt is for ground. Do not reuse bolts after removal; replace with new ones.
- Check air bag diagnosis sensor unit for proper installation.
- Check air bag diagnosis sensor unit to ensure it is free of deformities, dents, cracks and rust. If there are any visible signs of damage, replace it with a new one.
- Check air bag diagnosis sensor unit brackets to ensure they are free of deformities or rust.
- Replace air bag diagnosis sensor unit if it has been dropped or has sustained an impact.



- 1. Disconnect driver and passenger air bag module connectors and seat belt pre-tensioner connectors.
- Remove console box. Refer to "INSTRUMENT PANEL ASSEMBLY", BT-20.
- 3. Disconnect air bag diagnosis sensor unit connector.
- 4. Remove ground bolt and also remove hex head bolts from air bag diagnosis sensor unit.

Then remove the air bag diagnosis sensor unit.

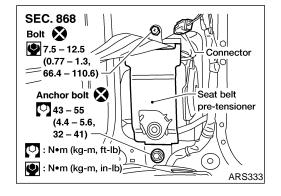
NOTE:

- To install, reverse the removal procedure and tighten new bolts in the sequence indicated in the illustration.
- After replacement, perform self-diagnosis for SRS. Refer to "SRS Operation Check", RS-35.

CAUTION:

Air bag diagnosis sensor unit must always be installed with forward mark "

" pointing toward the front of the vehicle for proper operation. Also check air bag diagnosis sensor unit for deformities, dents, cracks and rust before installation and replace as required.



Seat Belt Pre-tensioner REMOVAL AND INSTALLATION

CAUTION:

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

- Do not use old bolts and nuts after removal; replace with new ones.
- Check seat belt pre-tensioner for proper installation.
- After replacement of seat belt pre-tensioner, check SRS function and perform self-diagnosis for SRS. Refer to "SRS Operation Check", RS-35.

Seat Belt Pre-tensioner (Cont'd)

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- Do not attempt to disassemble air bag diagnosis sensor unit or seat belt pre-tensioner.
- Replace seat belt pre-tensioner if it has been dropped or sustained an impact.
- Do not expose seat belt pre-tensioner to temperatures exceeding 80°C (176°F).

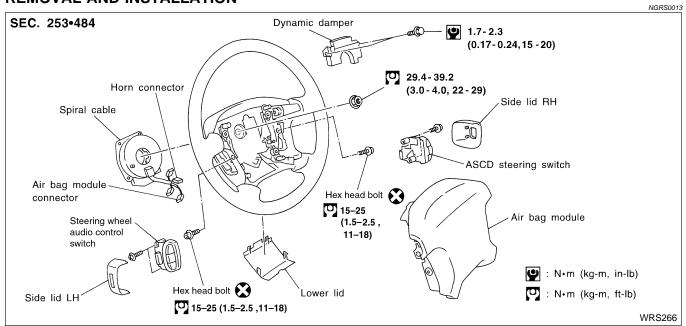
For removal of seat belt pre-tensioner, refer to "Front Seat Belt", RS-4.

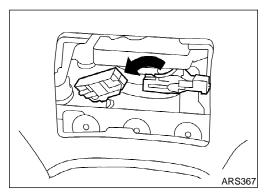
NOTE:

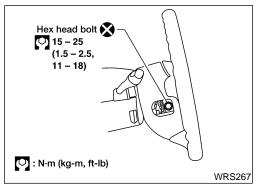
To install, reverse removal procedure.

Driver Air Bag Module and Spiral Cable

REMOVAL AND INSTALLATION







REMOVAL

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 an air bag module.

Remove lower lid from steering wheel and disconnect driver air bag module connector.

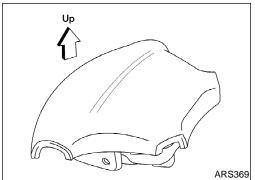
Remove side lids, steering wheel audio control switches and ASCD steering switch. Remove hex head bolts. Air bag module can then be removed.

SC

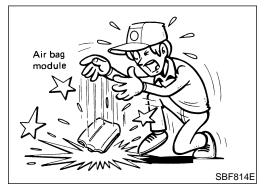
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Driver Air Bag Module and Spiral Cable (Cont'd)

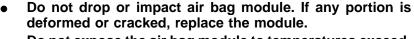




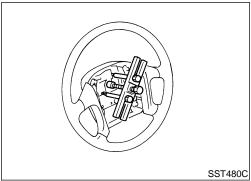




- Always place air bag module with air bag lid surface facing upward.
- Do not attempt to disassemble air bag module.
- The special bolts are coated with bonding agent. Do not use old bolts after removal; replace with new ones.
- Do not insert any foreign objects (screwdriver, etc.) into air bag module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



- 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.



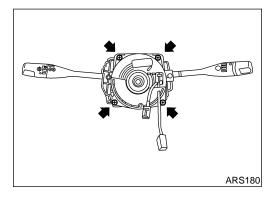
- Set steering wheel in the neutral position.
- Disconnect spiral cable connector from steering wheel subharness and remove nut.
- Remove dynamic damper, then using steering wheel puller, remove steering wheel. Be careful not to over-tighten puller bolt on steering wheel.

CAUTION:

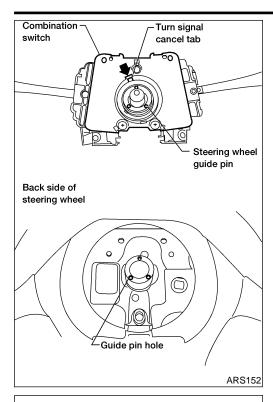
- Do not tap or bump the steering wheel.
- Remove steering column covers, instrument panel lower LH and knee protector.
- Disconnect spiral cable connector from air bag harness. 7.
- Remove the four spiral cable retaining screws. Remove the spiral cable.



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



Driver Air Bag Module and Spiral Cable (Cont'd)



INSTALLATION

NGRS0015

- Set the front wheels in the straight-ahead position.
- Align the turn signal cancel tab with the notch of the combination switch as shown.

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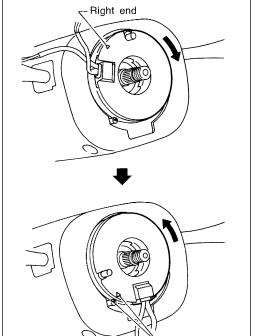
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Neutral position

SRS276

SBF818E

Rotate the spiral cable fully clockwise until tight.

AT Rotate the spiral cable counterclockwise approximately 2.25 turns and align white pin with arrow on housing.

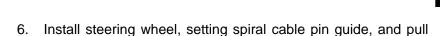
When the spiral cable is centered, white pin is aligned with arrow on housing and yellow wheel shows in window.

CAUTION:

- The spiral cable may snap during steering operation if the spiral cable is installed in an improper position.
- Also, with the steering linkage disconnected, the cable may snap by turning the steering wheel beyond the limited number of turns. The spiral cable can be turned counterclockwise approximately 2.25 turns. Always perform SRS self-diagnosis after installing the air bag module. Refer to "SRS Operation Check", RS-35.
- Connect spiral cable to air bag harness and tighten screws. Install steering column covers.

RS

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(3.0 - 4.0 kg-m, 22 - 29 ft-lb)

spiral cable connectors through. Install dynamic damper. Tighten steering wheel nut.

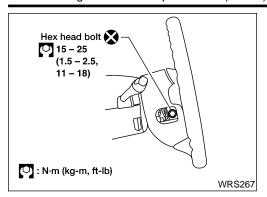
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RS-17

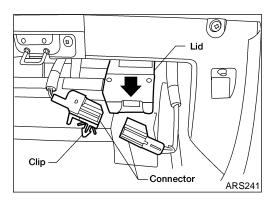
Driver Air Bag Module and Spiral Cable (Cont'd)



- Position driver air bag module and install two new hex head bolts.
- 10. Connect driver air bag module connector.
- 11. Install all lids and steering switches.
- 12. Connect both battery cables.
- 13. Conduct self-diagnosis to ensure entire SRS operates properly. (Use CONSULT-II or "AIR BAG" warning lamp check.) Turn the steering wheel fully to the right and left to check that the spiral cable is set in the neutral position.
- 14. If "AIR BAG" warning lamp blinks (in User mode), it shows the spiral cable may be snapped due to its improper position. Perform self-diagnosis again. (Use CONSULT-II or "AIR BAG" warning lamp check.) If a malfunction is detected, replace the spiral cable with a new one.

NOTE:

 After replacement, perform self-diagnosis for SRS. Refer to "SRS Operation Check", RS-35.



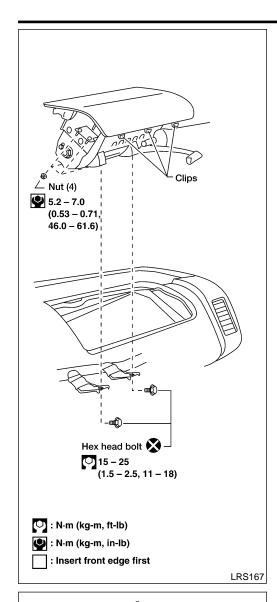
Front Passenger Air Bag Module REMOVAL

CAUTION:

NGRS0016

- Before servicing SRS, turn the ignition switch OFF, disconnect both battery cables and wait for at least 3 minutes.
- Always work from the side of an air bag module.
- 1. Open glove box assembly.
- Open lid of instrument panel lower passenger side, inside glove box.
- 3. Remove passenger air bag module connector clip from lid.
- 4. Disconnect passenger air bag module connector from air bag harness connector.
- Remove glove box and instrument panel lower passenger side. Refer to "INSTRUMENT PANEL ASSEMBLY", BT-20.

Front Passenger Air Bag Module (Cont'd)



- 6. Remove two hex head bolts.
- 7. Remove four mounting nuts.
- Remove passenger air bag module by releasing the clips from the top of the instrument panel.
- The air bag module is heavy and should be supported using both hands during removal.







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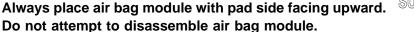
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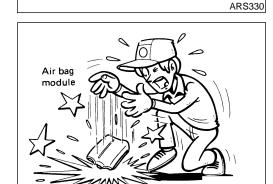
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- The special bolts are coated with a bonding agent. Do not use old bolts after removal; replace with new coated bolts.
- Do not insert any foreign objects (screwdriver, etc.) into air bag module connector.



ST



- Do not drop or impact air bag module. If any portion is deformed or cracked, replace the module.
- Do not expose the air bag module to temperatures exceeding 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 instrument panel assembly should be replaced if damaged.



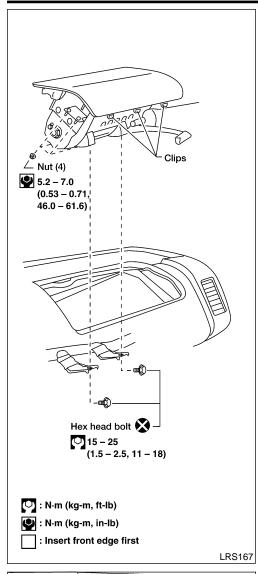
SC

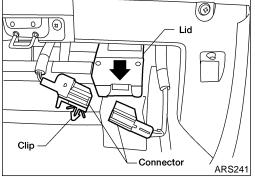
HA

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CAUTION:

Front Passenger Air Bag Module (Cont'd)





INSTALLATION

CAUTION:

- Always work from the side of an air bag module.
- Install passenger air bag module in instrument panel.
- Insert front edge of passenger air bag module first to ease installation.
- Ensure harness is not caught between passenger air bag module and support bracket.
- 2) Install four mounting nuts.
- 3) Install two new hex head bolts.
- 2. Install instrument panel lower passenger side and glove box.

- Connect passenger air bag module connector to air bag harness connector.
- 4. Attach passenger air bag module connector clip to lid.
- 5. Close lid and glove box.
- 6. Connect both battery cables.
- Conduct self-diagnosis to ensure entire SRS operates properly. (Use CONSULT-II or "AIR BAG" warning lamp check.)

NOTE:

 After replacement, perform self-diagnosis for SRS. Refer to "SRS Operation Check", RS-35.

Disposal of Air Bag Module and Seat Belt Pretensioner

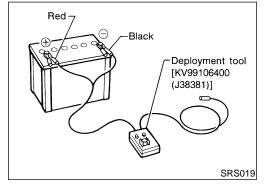
- Before disposing of air bag modules and seat belt pretensioners, or vehicles equipped with such systems, deploy the systems. If such systems have already been deployed due to an accident, dispose of as indicated in "DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER", RS-26.
- When deploying air bag module or seat belt pre-tensioner, always use the Special Service Tool; Deployment tool KV99106400 (Kent-Moore No. J38381).
- When deploying air bag module or seat belt pre-tensioner,

NGRS0017

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

stand at least 5 m (16 ft) away from the deployment component.

- When deploying air bag module or 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 as it irritates the throat and can cause choking.
- smoke as it irritates the throat and can cause choking.
 Only activate one air bag module or seat belt pre-tensioner at a time.
- Due to heat, leave air bag module unattended for more than 30 minutes after deployment. Leave seat belt pre-tensioner unattended for more than 10 minutes after deployment.
- Be sure to wear gloves when handling a deployed air bag module or seat belt pre-tensioner.
- Never apply water to a deployed air bag module or 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 or 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 or seat belt pre-tensioner un-deployed.



CHECKING DEPLOYMENT TOOL Connecting to Battery

CAUTION:

The battery must show voltage of 9.6V or more.

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

- Wait 3 minutes after the vehicle battery is disconnected before proceeding.
- Connect red clip of deployment tool [SST: KV99106400 (J38381)] to battery positive terminal and black clip to negative terminal.

CAUTION:

Make sure the polarity is correct. The right side lamp on the deployment tool [SST: KV99106400 (J38381)], marked "DEPLOYMENT TOOL POWER", should glow with a green light. If the right side lamp glows red, reverse the connections to the battery.

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NGRS0018S01

NGRS0018S0101

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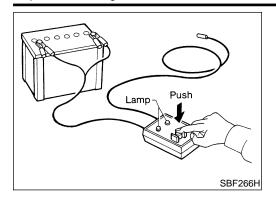
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Disposal of Air Bag Module and Seat Belt Pre-tensioner (Cont'd)



Deployment Tool Check

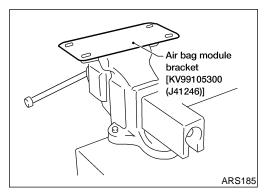
Press the deployment tool [SST: KV99106400 (J38381)] switch to the ON position. The left side lamp on the deployment tool [SST: KV99106400 (J38381)], marked "AIR BAG CONNECTOR VOLTAGE", should illuminate. If it does not illuminate, replace the tool.

Air Bag Deployment Tool Lamp Illumination Chart (Battery connected)

NGRS0018S0103

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

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

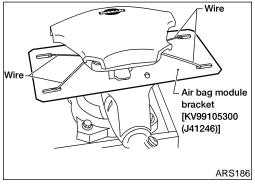


DEPLOYMENT PROCEDURES FOR AIR BAG MODULE (OUTSIDE OF VEHICLE)

NGRS0018S02

Unless the vehicle is being scrapped, deploying the air bag modules 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 Air Bag Module (Outside of vehicle)

NGRS0018S020

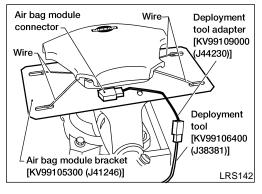
1. Using wire, secure driver air bag module to air bag module bracket [SST: KV99105300 (J41246)] at two places.

CAUTION:

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

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

- 2. Firmly secure air bag module bracket [SST: KV99105300 (J41246)] with driver air bag module attached, in a vise.
- 3. Connect deployment tool adapter [SST: KV99109000 (J44230)] to deployment tool [SST: KV99106400 (J38381)] connector and to driver air bag module connector.
- Connect red clip of deployment tool [SST: KV99106400 (J38381)] to battery positive terminal and black clip to negative terminal.
- 5. The right side lamp on the deployment tool [SST: KV99106400 (J38381)], marked "DEPLOYMENT TOOL POWER", should glow green, not red.
- 6. Press the button on the deployment tool [SST: KV99106400 (J38381)]. The left side lamp on the deployment tool [SST:



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

KV99106400 (J38381)], 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.



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15 (0.59) 8.5 (0.335) dia. 15 (0.59) 130 (5.12) Air bag module bracket [KV99105300 (J41246)] Unit: mm (in)

Deployment of Passenger Air Bag Module (Outside of vehicle)

FE

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.

GL

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Firmly secure air bag module bracket [SST: KV99105300

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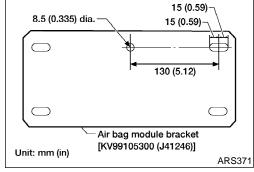
Match the two holes in air bag module bracket [SST:

ST

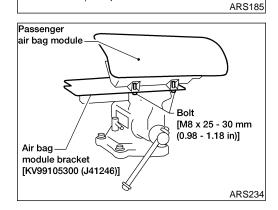
RS

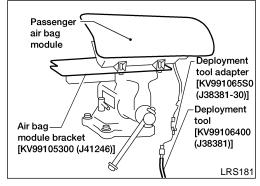
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Air bag module bracket [KV99105300 (J41246)]



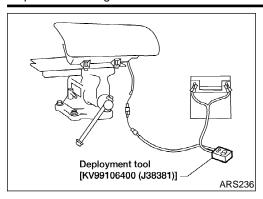


KV99105300 (J41246)] (held in vise) and passenger air bag module and fix them with two bolts [M8 x 25 - 30 mm (0.98 -1.18 in)]. **CAUTION:**

(J41246)] in a vise.

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.

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

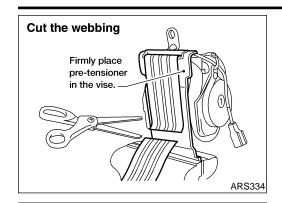


- 5. Connect red clip of deployment tool [SST: KV99106400 (J38381)] to battery positive terminal and black clip to negative terminal.
- 6. The right side lamp on the deployment tool [SST: KV99106400 (J38381)], marked "DEPLOYMENT TOOL POWER", should glow green, not red.
- Press the button on the deployment tool [SST: KV99106400 (J38381)]. The left side lamp on the deployment tool [SST: KV99106400 (J38381)], 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.

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



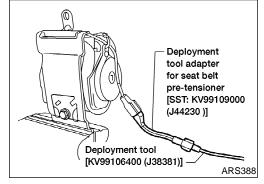
Deployment of Seat Belt Pre-tensioner (Outside of vehicle)

1. Firmly anchor seat belt pre-tensioner in a vise, then cut webbing off.



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Deployment tool

[KV99106400 (J38381)]

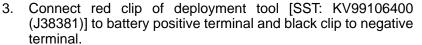
2. Connect deployment tool adapter [SST: KV99109000 (J44230)] to deployment tool [SST: KV99106400 (J38381)] connector and seat belt pre-tensioner connector.



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4. The right side lamp on the deployment tool [SST: KV99106400 (J38381)], marked "DEPLOYMENT TOOL POWER", should glow green, not red.



Press the button on the deployment tool [SST: KV99106400 (J38381)]. The left side lamp on the deployment tool [SST: KV99106400 (J38381)], marked "AIR BAG CONNECTOR VOLTAGE", will illuminate and the seat belt pre-tensioner will deploy.



CAUTION:

ARS336

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



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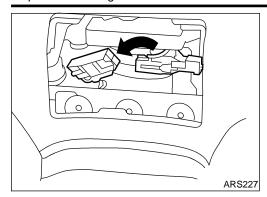
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RS-25

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



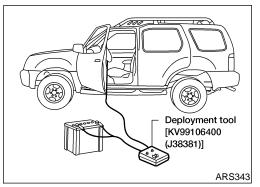
DEPLOYMENT OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER WHILE MOUNTED IN VEHICLE

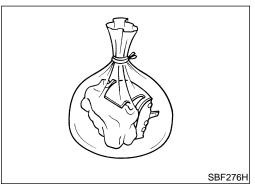
When disposing of a vehicle, deploy air bag modules and seat belt pre-tensioners while they are mounted in vehicle.

CAUTION:

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

- 1. Disconnect both battery cables and wait 3 minutes.
- Disconnect air bag module connector or seat belt pre-tensioner connector.
- Connect deployment tool [SST: KV99106400 (SST: J38381)] to air bag module or seat belt pre-tensioner..
 For passenger air bag module, use deployment tool adapter [SST: KV991065S0 (J38381–30)] to attach passenger air bag module, or for pre-tensioner and driver air bag module, use deployment tool adapter [SST: KV99109000 (J44230)] to attach seat belt pre-tensioner, to deployment tool [SST: KV99106400 (J38381)] connector.





- 4. Connect red clip of deployment tool [SST: KV99106400 (J38381)] to battery positive terminal and black clip to negative terminal.
- The right side lamp on the deployment tool [SST: KV99106400 (J38381)], marked "DEPLOYMENT TOOL POWER", should glow green, not red.
- Press the button on the deployment tool [SST: KV99106400 (J38381)]. The left side lamp on the deployment tool [SST: KV99106400 (J38381)], marked "AIR BAG CONNECTOR VOLTAGE", will illuminate and the air bag module or seat belt pre-tensioner will deploy.

DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

NGRS0018S04

Deployed air bag modules and seat belt pre-tensioners are very hot. Before disposing of air bag modules and seat belt pretensioners, 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 or seat belt pre-tensioner.
- Be sure to wear gloves when handling a deployed air bag module or seat belt pre-tensioner.
- No poisonous gas is produced upon air bag module or seat belt pre-tensioner deployment. However, be careful not to inhale gas since it irritates the throat and can cause choking.
- Do not attempt to disassemble air bag module or seat belt pre-tensioner.
- Air bag module or seat belt pre-tensioner cannot be reused
- Wash your hands clean after finishing work.

Trouble Diagnoses Introduction

Trouble Diagnoses Introduction

CAUTION:

Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. Spiral cable and wiring harnesses covered with yellow insulation either just before the harness connectors or for the complete harness are related to the SRS.

DVI A

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 Do not attempt to repair, splice or modify the SRS wiring harness. If the harness is damaged, replace it with a new one.

MA

• Keep ground portion clean.

DIAGNOSIS FUNCTION

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

LC

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.

EC

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

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

User mode Diagnosis mode Display type

"AIR BAG" warning lamp X X X ON-OFF operation

CONSULT-II — X Monitoring

FE

NOTE:

Seat belt pre-tensioner malfunction is indicated by "AIR BAG" warning lamp.

MT

DIAGNOSIS MODE FOR CONSULT-II

"SELF-DIAG [CURRENT]"

NGRS0055S02

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

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"SELF-DIAG [PAST]"

Diagnosis results previously stored in the memory are displayed on the CONSULT-II screen. The stored results are not erased until memory erasing is executed.

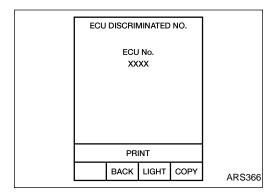
PD

"TROUBLE DIAG RECORD"

With TROUBLE DIAG RECORD, diagnosis results previously erased by a reset operation can be displayed on the CONSULT-II screen.

"ECU DISCRIMINATED NO."

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



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ECU Part No. ECU Discriminated No.

28556 9Z715 A603

28556 9Z815 A605

SC __

Trouble Diagnoses Introduction (Cont'd)

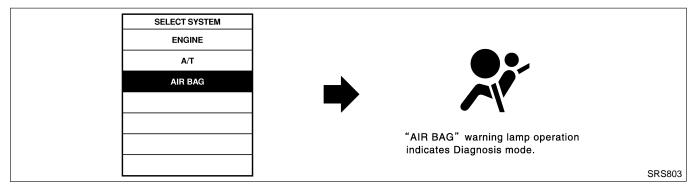
(P) HOW TO CHANGE SELF-DIAGNOSIS MODE WITH CONSULT-II

From User Mode to Diagnosis Mode

=NGRS0055S03

NGRS0055S0301

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



From Diagnosis Mode to User Mode

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



NOW TO CHANGE SELF-DIAGNOSIS MODE WITHOUT CONSULT-II

From User Mode to Diagnosis Mode

NGRS0055S04

Diagnosis mode activates only when a malfunction is detected, by turning ignition switch as follows:

- 1) Turn ignition switch "ON".
- 2) After "AIR BAG" warning lamp lights for 7 seconds, turn ignition switch "OFF" within 1 second.
- 3) Wait more than 3 seconds.
- 4) Repeat steps 1 to 3 three times.
- 5) Turn ignition switch "ON".

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

From Diagnosis Mode to User Mode

NGRS0055S04

After a malfunction is repaired, switch the ignition "OFF" for at least one second, then back "ON". Diagnosis mode is returned to User mode.

If switching Diagnosis mode to User mode is required while malfunction is being detected, by turning ignition switch as follows:

- 1) Turn ignition switch "ON".
- 2) After "AIR BAG" warning lamp lights for 7 seconds, turn ignition switch "OFF" within 1 second.
- Wait more than 3 seconds.
- 4) Repeat steps 1 to 3 three times.
- 5) Turn ignition switch "ON".

HOW TO ERASE SELF-DIAGNOSIS RESULTS

(P) With CONSULT-II

NGRS0055S05 NGRS0055S0501

"SELF-DIAG [CURRENT]"

A current Self-diagnosis result is displayed on the CONSULT-II screen in real time.

RS-28

Trouble Diagnoses Introduction (Cont'd)

After the malfunction is repaired completely, no malfunction is detected on "SELF-DIAG [CURRENT]".

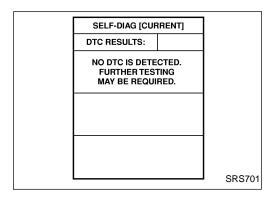
"SELF-DIAG [PAST]"
 Return to the "SELF-DIAG [CURRENT]" CONSULT-II screen by pushing "BACK" key of CONSULT-II and select "SELF-DIAG [CURRENT]" in SELECT DIAG MODE. Touch "ERASE" in "SELF-DIAG [CURRENT]" mode.

GI

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.

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

MT

⊗ Without CONSULT-II

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

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How to Perform Trouble Diagnoses for Quick and Accurate Repair

How to Perform Trouble Diagnoses for Quick and Accurate Repair

=NGRS005

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

NGRS0056S01

WHAT Vehicle model
WHEN Date, Frequencies
WHERE Road conditions

HOW Operating conditions, Symptoms

PRELIMINARY CHECK

NGRS0056S02

Check that the following parts are in good order.

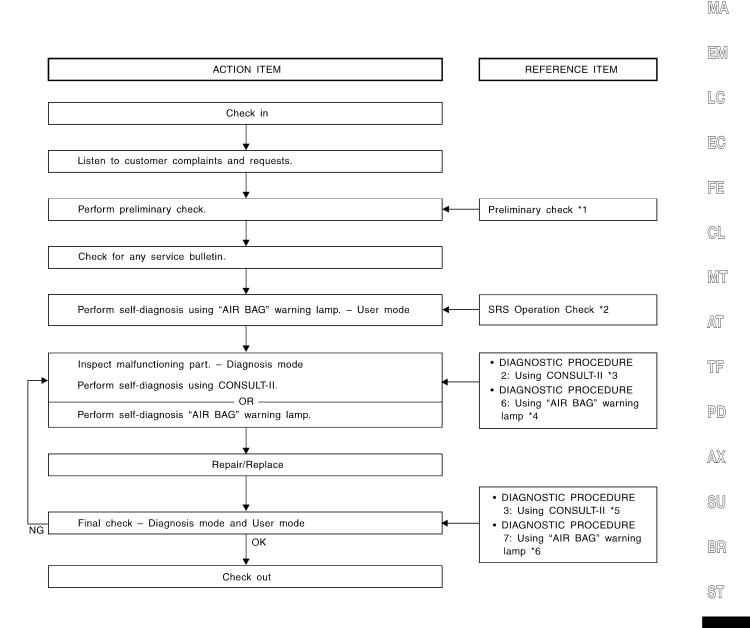
- Battery, refer to SC-4, "BATTERY".
- System component-to-harness connections.
- Check fuse.

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

WORK FLOW =NGRS0056S03

NOTE:

Seat belt pre-tensioner malfunction is indicated by "AIR BAG" warning lamp.



*1: RS-30 *2: RS-35

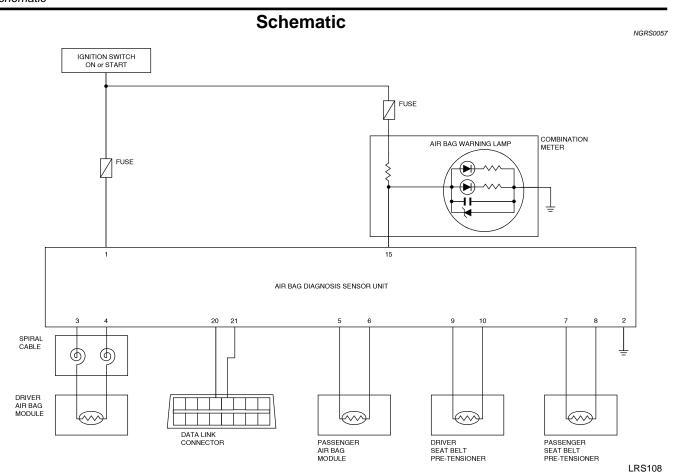
*3: RS-36 *4: RS-44 *5: RS-39 *6: RS-48 SRS799

HA

RS

GI

SC

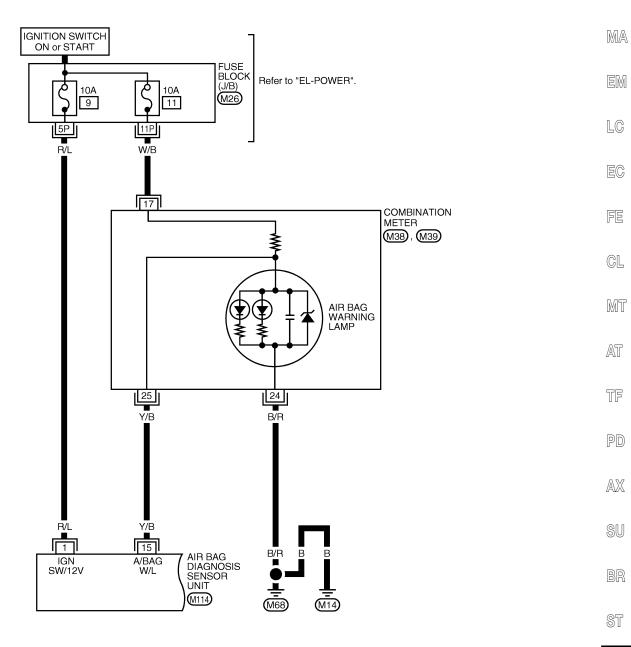


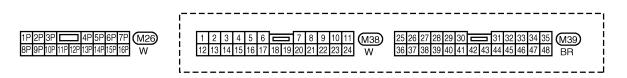
Wiring Diagram — SRS —

NGRS0058

GI

RS-SRS-01





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3	4	12	11		6	5	W114
21	22	20	15	1	16	2	Y

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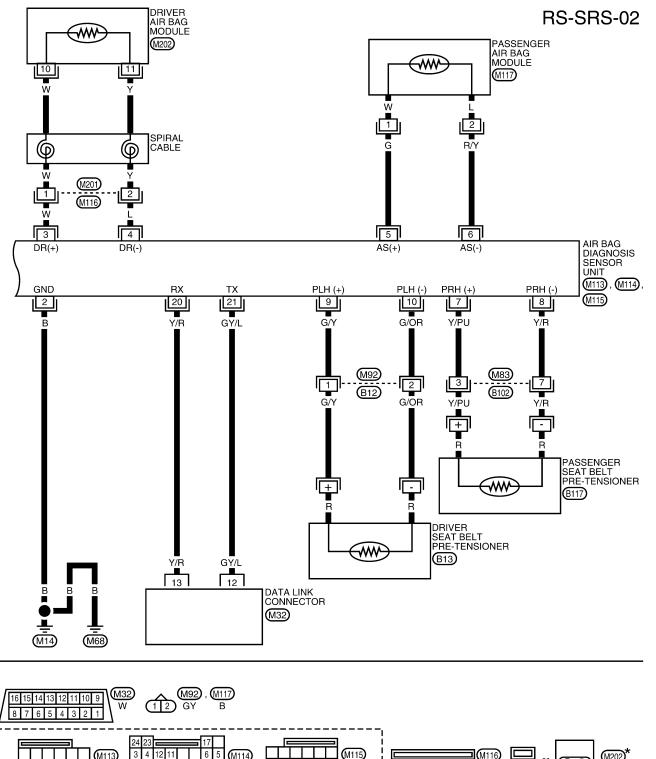
HA

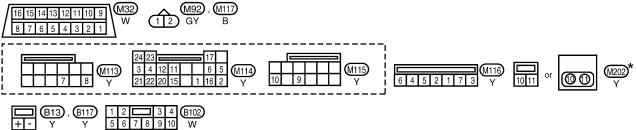
RS

BS100 EL

LRS109

Wiring Diagram — SRS — (Cont'd)

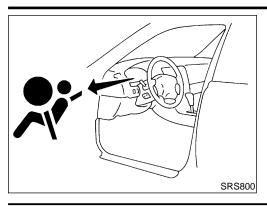




*: This connector is not shown in "HARNESS LAYOUT" of EL section.

WRS280

SRS Operation Check



SRS Operation Check DIAGNOSTIC PROCEDURE 1

NGRS0059

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

1. After turning ignition switch from "OFF" to "ON", "AIR BAG" warning lamp operates.

MA

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

EM

LC

"AIR BAG" warning lamp operation — User mode —	SRS condition	Reference item	
OFF 7 sec. MRS095A	No malfunction is detected. No further action is necessary.	_	
OFF 0.5 sec. 0.5 sec. MRS096A	The system is malfunctioning and needs to be repaired as indicated.	Go to "DIAGNOSTIC PROCEDURE 2", RS-36 or "DIAGNOSTIC PROCE- DURE 6" RS-44.	©[
IGN ON	Air bag is deployed. Seat belt pre-tensioner is deployed.	Go to "Collision Diagnosis", RS-53.	AT
OFF MRS097A	Air bag fuse, diagnosis sensor unit or harness is malfunctioning and needs to be repaired.	Go to "DIAGNOSTIC PROCEDURE 9", RS-50.	PI
IGN ON	One of the following has occurred and needs to be repaired.	Go to "DIAGNOSTIC PROCEDURE 10", RS-52.	A
ON	Meter fuse is blown."AIR BAG" warning lamp circuit has open or		SI
OFF MRS098A	short. • Diagnosis sensor unit is malfunctioning.		B
NOTE:			S

NOTE:

If "AIR BAG" warning lamp operates differently from the operations shown above, refer to "DIAGNOSTIC PROCEDURE 6", RS-44.

RS

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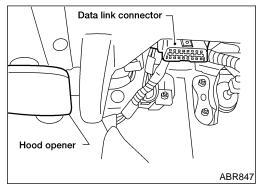
SC

EL

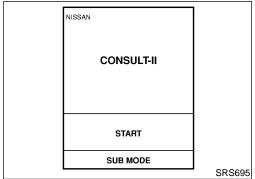
Trouble Diagnoses with CONSULT-II DIAGNOSTIC PROCEDURE 2

=NGRS0060

Inspecting SRS malfunctioning parts by using CONSULT-II — Diagnosis mode



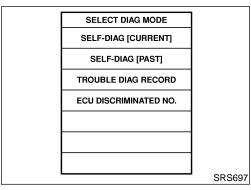
- 1. Turn ignition switch "OFF".
- 2. Connect "CONSULT-II" to data link connector.



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

SELECT SYSTEM	
ENGINE	
A/T	
AIR BAG	
	SRS771

5. Touch "AIR BAG".



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

(P) Trouble Diagnoses with CONSULT-II (Cont'd)

SELF-DIAG [CUF	RRENT]	
DTC RESULTS:		
AIR BAG MOD [OPEN]	ULE	
		000==0
		SRS772

7. Diagnostic codes are displayed on "SELF-DIAG [CURRENT]".

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SELF-DIAG [CURRENT]

DTC RESULTS:

NO DTC IS DETECTED.
FURTHER TESTING
MAY BE REQUIRED.

SRS701

If no malfunction is detected on "SELF-DIAG [CURRENT]" even though malfunction is detected in "SRS Operation Check", check the battery voltage.

If the battery voltage is less than 9V, charge the battery. Then go to "DIAGNOSTIC PROCEDURE 3", RS-39.

FE

If the battery voltage is OK, refer to "DIAGNOSTIC PROCEDURE 4 (CONTINTUE FROM DIAGNOSTIC PROCEDURE 2)", RS-41, to diagnose the following cases:

CL

 Self-diagnostic result "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased after repair.

The SRS system malfunctions intermittently.

MT

8. Touch "COPY".

AT

 Compare diagnostic codes to "CONSULT-II Diagnostic Code Chart". Refer to "CONSULT-II Diagnostic Code Chart ('SELF-DIAG [CURRENT]')", RS-37.

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10. Touch "BACK" key of CONSULT-II until "SELECT SYSTEM" appears in order to return to User mode from Diagnosis mode.11. Turn ignition switch "OFF", then turn off and disconnect

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CONSULT-II, and disconnect both battery cables.

12. Repair the system as outlined by the "Repair order" in "CONSULT-II Diagnostic Code Chart", that corresponds to the self-diagnostic result. For replacement procedure of component

parts, refer to "REMOVAL AND INSTALLATION", RS-14.

13. After repairing the system, refer to "DIAGNOSTIC PROCEDURE 3", RS-39 for final checking.

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

NGRS0060S0101

Diagnostic item		Explanation	Repair order "Recheck SRS at each replacement."
NO DTC IS DETECTED.	When malfunction is indicated by the "AIR BAG" warning lamp in	Low battery voltage (Less than 9V)	Go to "DIAGNOSTIC PROCE- DURE 3", RS-39 after charging battery.
	User mode	 Self-diagnostic result "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased after repair. Intermittent malfunction has been detected in the past. 	Go to "DIAGNOSTIC PROCE- DURE 4", RS-41.
	No malfunction is determined.	ected.	Go to "DIAGNOSTIC PROCE- DURE 3", RS-39.

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(E) Trouble Diagnoses with CONSULT-II (Cont'd)

Diagnostic item	Explanation	Repair order "Recheck SRS at each replace- ment."
AIRBAG MODULE [OPEN]	Driver air bag module circuit is open. (including the spiral cable)	 Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace driver air bag module. (Before disposal of it, it must be deployed.) Replace the spiral cable. Replace the air bag diagnosis sensor unit. Replace the related harness.
AIRBAG MODULE [VB-SHORT]	Driver air bag module circuit is shorted to some power supply circuit. (including the spiral cable)	 Visually check the wiring harness connection. Replace the harness if it has visible damage.
AIRBAG MODULE [GND-SHORT]	Driver air bag module circuit is shorted to ground. (including the spiral cable)	 3. Replace the spiral cable. 4. Replace driver air bag module. (Before disposal of it, it must be deployed.)
AIRBAG MODULE [SHORT]	Driver air bag module circuits are shorted to each other.	5. Replace the air bag diagnosis sensor unit.6. Replace the related harness.
ASSIST A/B MODULE [VB-SHORT]	Passenger air bag module circuit is shorted to some power supply circuit.	Visually check the wiring harness connection.
ASSIST A/B MODULE [OPEN]	Passenger air bag module circuit is open.	Replace the harness if it has visible damage. Replace passenger air bag
ASSIST A/B MODULE [GND-SHORT]	Passenger air bag module circuit is shorted to ground.	module. (Before disposal of it, it must be deployed.) 4. Replace the air bag diagnosis
ASSIST A/B MODULE [SHORT]	Passenger air bag module circuits are shorted to each other.	sensor unit. 5. Replace the related harness.
PRE-TEN FRONT LH [OPEN/VB-SHORT]	The circuit for driver seat belt 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 driver seat belt.
PRE-TEN FRONT LH [GND-SHORT]	The circuit for driver seat belt pre-tensioner is shorted to ground.	(Before disposing, it must be deactivated.)4. Replace the air bag diagnosis sensor unit.5. Replace the related harness.
PRE-TEN FRONT RH [OPEN/VB-SHORT]	The circuit for passenger seat belt 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 passenger seat belt.
PRE-TEN FRONT RH [GND-SHORT]	The circuit for passenger seat belt pre-tensioner is shorted to ground.	(Before disposing, it must be deactivated.)4. Replace the air bag diagnosis sensor unit.5. Replace the related harness.
CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning.	Visually check the wiring harness connection. Replace the air bag 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-II each time repair is finished. If malfunction is still observed, proceed to the next

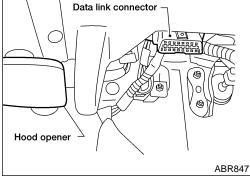
(P) Trouble Diagnoses with CONSULT-II (Cont'd)

step. When malfunction is eliminated, further repair work is not required.



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DIAGNOSTIC PROCEDURE 3

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

EG

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

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Touch "START".

Touch "AIR BAG".

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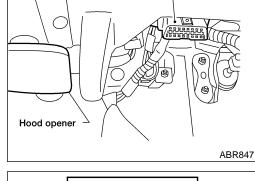
ST

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

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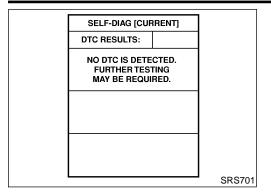


NISSAN **CONSULT-II** START SUB MODE SRS695

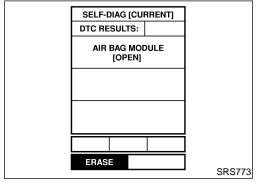
SELECT SYSTEM **ENGINE** A/T AIR BAG SRS771

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

(P) Trouble Diagnoses with CONSULT-II (Cont'd)



7. If no malfunction is detected on "SELF-DIAG [CURRENT]", repair of SRS is completed. Go to step 8. If any malfunction is displayed on "SELF-DIAG [CURRENT]", the malfunctioning part is not repaired completely or another malfunctioning part is detected. Go to "DIAGNOSTIC PROCEDURE 2", RS-36, and repair malfunctioning part completely.

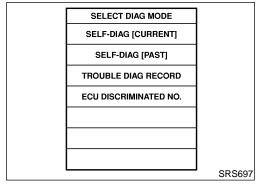


8. Touch "ERASE".

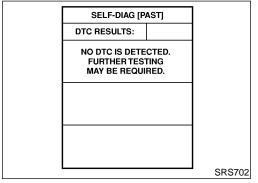
NOTE:

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

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.



Touch "BACK" key of CONSULT-II to "SELECT SYSTEM" screen. Touch "SELF-DIAG [PAST]".



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

- 11. Touch "BACK" key of CONSULT-II until "SELECT SYSTEM" appears in order to return to User mode from Diagnosis mode.
- Turn ignition switch "OFF", then turn off and disconnect CON-SULT-II.
- 13. Go to "SRS Operation Check", RS-35 to check SRS operation by using "AIR BAG" warning lamp with User mode.

(P) Trouble Diagnoses with CONSULT-II (Cont'd)

DIAGNOSTIC PROCEDURE 4 (CONTINUED FROM DIAGNOSTIC PROCEDURE 2)

Inspecting SRS malfunctioning record

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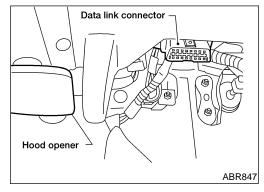
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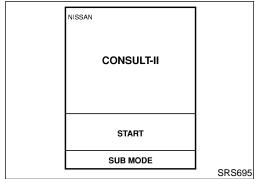
1	CONSIDER POSSIBILIT	TY OF NOT ERASING SELF-DIAGNOSTIC RESULT AFTER REPAIRING	
Is it th	Is it the first time for maintenance of SRS?		
		Yes or No	
Yes	•	Go to "DIAGNOSTIC PROCEDURE 5", RS-41.	
No	>	Self-diagnostic result "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased after repair. Go to "DIAGNOSTIC PROCEDURE 3", RS-39.	



DIAGNOSTIC PROCEDURE 5

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

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



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

SELECT SYSTEM
ENGINE
A/T
AIR BAG
SRS771

5. Touch "AIR BAG".

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

SELECT DIAG MODE

SELF-DIAG [CURRENT]

SELF-DIAG [PAST]

TROUBLE DIAG RECORD

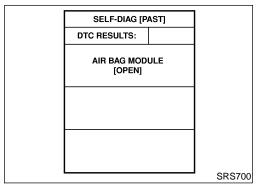
ECU DISCRIMINATED NO.

SRS697

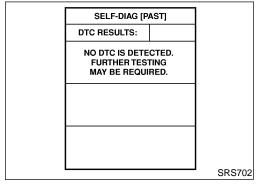
SC

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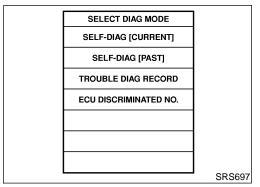
(P) Trouble Diagnoses with CONSULT-II (Cont'd)



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



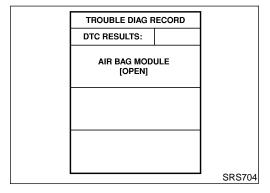
If no malfunction is detected on "SELF-DIAG [PAST]", touch "BACK" and go back to "SELECT DIAG MODE".



8. Touch "TROUBLE DIAG RECORD".

NOTE:

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



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

- 10. Touch "COPY".
- Compare diagnostic codes to "Intermittent Malfunction Diagnostic Code Chart". Refer to "Intermittent Malfunction Diagnostic Code Chart ("SELF-DIAG [PAST]" or "TROUBLE DIAG RECORD")", RS-43.
- 12. Touch "BACK" key of CONSULT-II until "SELECT SYSTEM" appears.
- 13. Turn ignition switch "OFF", then turn off and disconnect CONSULT-II, and disconnect both battery cables.
- 14. Repair the system as outlined by the "Repair order" in "Intermittent Malfunction Diagnostic Code Chart", that corresponds

(P) Trouble Diagnoses with CONSULT-II (Cont'd)

to the self-diagnostic result. For replacement procedure of component parts, refer to "REMOVAL AND INSTALLATION", RS-14.

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15. Go to "DIAGNOSTIC PROCEDURE 3", RS-39, for final checking.

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Intermittent Malfunction Diagnostic Code Chart ("SELF-DIAG [PAST]" or "TROUBLE DIAG RECORD")

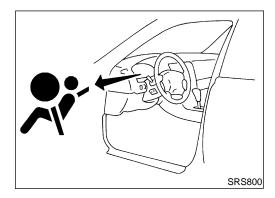
Diagnostic item		Explanation	Repair order	
NO DTC IS DETECTED.	When malfunction is indicated by the "AIR BAG" warning lamp in User mode	Low battery voltage (Less than 9V)	Go to "DIAGNOSTIC PROCEDURE 3", RS-39 after charging battery.	
	No malfunction is determined to the second sec	ected.	Go to "DIAGNOSTIC PROCEDURE 3", RS-39.	
AIRBAG MODULE [OPEN]	Driver air bag module cable)	circuit is open. (including the spiral	Visually check the wiring harness connection.	
AIRBAG MODULE [VB-SHORT]	Driver air bag module circuit. (including the	circuit is shorted to some power supply spiral cable)	2. Replace the harness if it has visible damage.3. If the harness check result is OK,	
AIRBAG MODULE [GND-SHORT]	Driver air bag module the spiral cable)	circuit is shorted to ground. (including	replace driver air bag module (Before disposal of it, it must be deployed.), air bag diagnosis sensor unit and spiral cable.	
AIRBAG MODULE [SHORT]	Driver air bag module	circuits are shorted to each other.		
ASSIST A/B MODULE [VB-SHORT]	Passenger air bag mosupply circuit.	odule circuit is shorted to some power	Visually check the wiring harness connection.	
ASSIST A/B MODULE [OPEN]	Passenger air bag mo	odule circuit is open.	2. Replace the harness if it has visible damage.3. If the harness check result is OK,	
ASSIST A/B MODULE [GND-SHORT]	Passenger air bag mo	odule circuit is shorted to ground.	replace passenger air bag module (Before disposal of it, it must be deployed.), and air bag diagnosis	
ASSIST A/B MODULE [SHORT]	Passenger air bag mo	odule circuits are shorted to each other.	sensor unit.	
PRE-TEN FRONT LH [OPEN/VB-SHORT]	The circuit for driver s shorted to some power	seat belt pre-tensioner is open or er supply circuit.	 Visually check the wiring harness connections. Replace the harness if it has visible damage. 	
PRE-TEN FRONT LH	The circuit for driver p	ore-tensioner is shorted to ground.	3. If the harness check is OK, replace the air bag diagnosis sensor unit and driver seat belt.	
[GND-SHORT]			(Before disposing the driver seat belt pre-tensioner, it must be deployed.)	
PRE-TEN FRONT RH [OPEN/VB-SHORT]	The circuit for passen shorted to some power	ger seat belt pre-tensioner is open or er supply circuit.	Visually check the wiring harness connections.	
-			2. Replace the harness if it has visible damage.3. If the harness check is OK, replace	
PRE-TEN FRONT RH [GND-SHORT]	The circuit for passen	ger pre-tensioner is shorted to ground.	the air bag diagnosis sensor unit and passenger seat belt. (Before disposing the passenger	
			seat belt pre-tensioner, it must be deployed.)	

EL

(P) Trouble Diagnoses with CONSULT-II (Cont'd)

Diagnostic item	Explanation	Repair order
CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning.	 Visually check the wiring harness connection. Replace the harness if it has visible damage. If the harness check is OK, replace the air bag diagnosis sensor unit.

^{*} Follow the procedures in numerical order when repairing malfunctioning parts, then make the final system check.



⊗ Trouble Diagnoses without CONSULT-II DIAGNOSTIC PROCEDURE 6

NGRS006

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.

- Turn ignition switch "ON".
- 2. After "AIR BAG" warning lamp lights for 7 seconds, turn ignition switch "OFF" within 1 second.
- 3. Wait more than 3 seconds.
- 4. Repeat steps 1 to 3 three times.
- 5. Turn ignition switch "ON". SRS is now in Diagnosis mode.
- "AIR BAG" warning lamp operates in Diagnosis mode as follows:

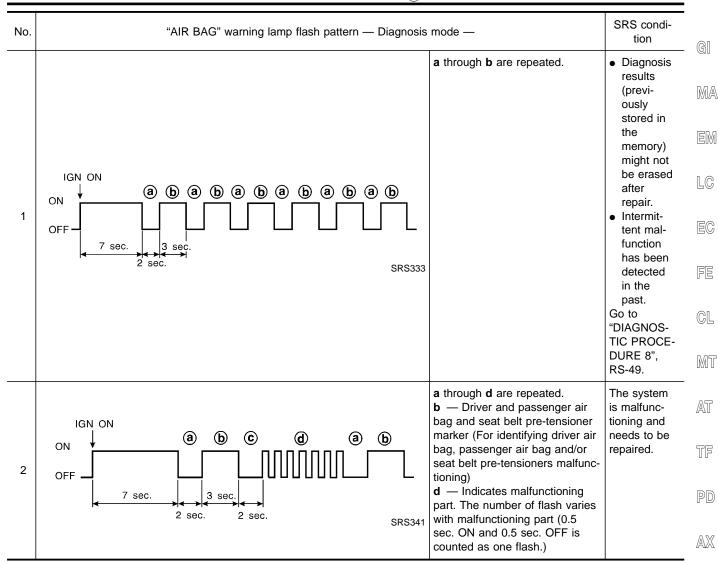
NOTE:

If SRS does not enter Diagnosis mode even though malfunction is detected in User mode, check the battery voltage.

If the battery voltage is less than 9V, charge the battery. Then refer to "DIAGNOSTIC PROCEDURE 7", RS-48.

If the battery voltage is OK, replace the air bag diagnosis sensor unit.

Trouble Diagnoses without CONSULT-II (Cont'd)



- Malfunctioning part is indicated by the number of flashes (part d). Compare the number of flashes to "Air Bag Warning Lamp Flash Code Chart". Refer to "Air Bag Warning Lamp Flash Code Chart (Diagnosis mode)", RS-46, and locate malfunctioning part.
- 8. Turn ignition switch "OFF", and disconnect both battery cables.
- Repair the system as outlined by the "Repair order" in "Warning Lamp Flash Code Chart" that corresponds to the flash code. For replacement procedure of component parts, refer to "REMOVAL AND INSTALLATION", RS-14.
- 10. After repairing the system, refer to "DIAGNOSTIC PROCE-DURE 7", RS-48.







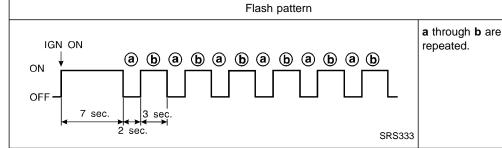


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Air Bag Warning Lamp Flash Code Chart (Diagnosis mode)

NGRS0061S0101

- Diagnosis results (previously stored in the memory) might not be erased after repair.
- Intermittent malfunction has been detected in the past.



Repair order

• Go to "DIAGNOSTIC PROCEDURE 8 (CONTINUED FROM DIAGNOSTIC PROCEDURE 6)" RS-49.

Flash pattern **IGN ON a b © @ @ b** ON OFF 7 sec. 3 sec 2 sec. 2 sec SRS801

a through d are repeated.

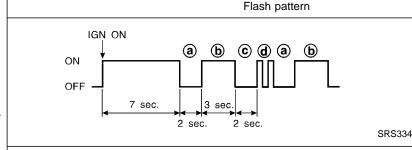
d - One flash indicates malfunctioning passenger pre-tensioner circuit.

The passenger seat belt pre-tensioner circuit is malfunctioning. (d: 1 flash)

Repair order (Recheck SRS at each replacement. Refer to "SRS Operation Check", RS-35.)

- 1. Visually check the wiring harness connections.
- 2. Replace the harness if it has visible damage.
- 3. Replace passenger seat belt pre-tensioner. (Before disposing, it must be deactivated.)
- 4. Replace the air bag diagnosis sensor unit.

5. Replace the related harness.



a through d are repeated.

d - Two flashes indicate malfunctioning driver air bag module circuit.

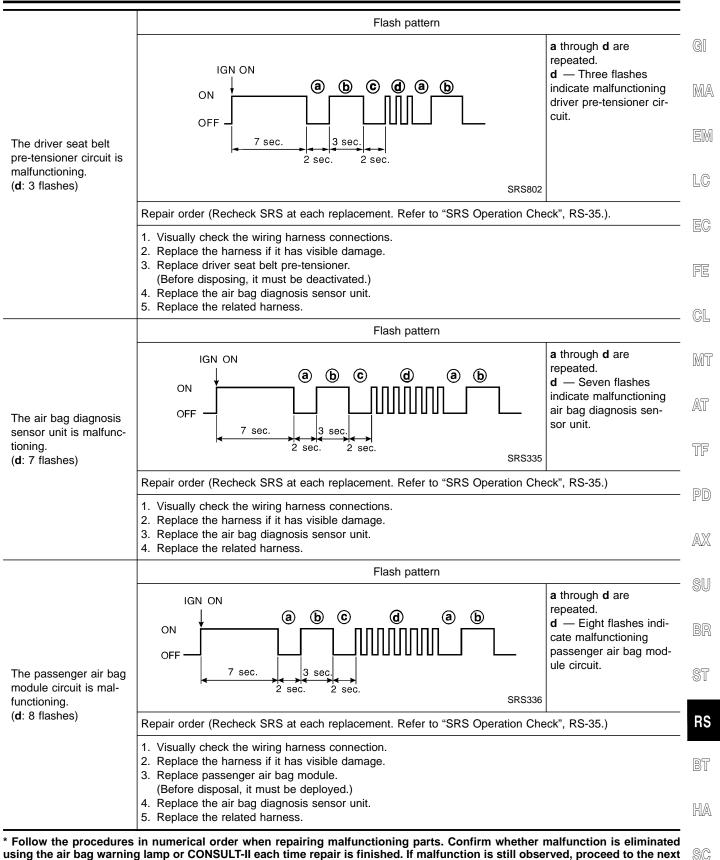
The driver air bag module circuit is malfunctioning.

(d: 2 flashes)

Repair order (Recheck SRS at each replacement. Refer to "SRS Operation Check", RS-35.)

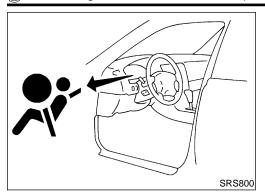
- 1. Visually check the wiring harness connection.
- 2. Replace the harness if it has visible damage.
- 3. Replace the spiral cable.
- 4. Replace driver air bag module. (Before disposal, it must be deployed.)
- 5. Replace the air bag diagnosis sensor unit.
- 6. Replace the related harness.

Trouble Diagnoses without CONSULT-II (Cont'd)



using the air bag warning lamp or CONSULT-II each time repair is finished. If malfunction is still observed, proceed to the next step. When malfunction is eliminated, further repair work is not required.

Trouble Diagnoses without CONSULT-II (Cont'd)



DIAGNOSTIC PROCEDURE 7

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 door.
- 3. Turn ignition switch from "OFF" to "ON".
- 4. "AIR BAG" warning lamp operates in Diagnosis mode as follows:

No.	"AIR BAG" warning lamp flash pattern — Diagnosis	mode —	SRS condi- tion
1	IGN ON ON ON OFF 7 sec. 2 sec. SRS333	a through b are repeated.	No malfunction is detected or repair is completed. No further action is necessary.
2	OFF 7 sec. 2 sec. SRS341	a through d are repeated. b — Driver and passenger air bag and seat belt pre-tensioner marker (For identifying driver air bag, passenger air bag and/or seat belt pre-tensioners malfunctioning) d — Indicates malfunctioning part. The number of flashes varies with malfunctioning part (0.5 sec. ON and 0.5 sec. OFF is counted as one flash.)	The system is malfunctioning and needs to be repaired.

NOTE:

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

- 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. Refer to "DIAGNOSTIC PROCEDURE 6", RS-44, and repair malfunctioning 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, by turning ignition switch as follows:

- Turn ignition switch "ON".
- After "AIR BAG" warning lamp lights for 7 seconds, turn ignition switch "OFF" within 1 second.
- 3) Wait more than 3 seconds.

Trouble Diagnoses without CONSULT-II (Cont'd)

- Repeat steps 1 to 3 three times.
- 5) Turn ignition switch "ON".

SRS is now in User mode.

ű	"AIR BAG" warning lamp operation — User mode —	SRS condition	Reference item	пдα
ON OFF	7 sec. MRS095A	No malfunction is detected. No further action is necessary.	_	MA EM LC
ON J	5 sec. 0.5 sec. MRS096A	The system is malfunctioning and needs to be repaired as indicated.	Go to "DIAGNOSTIC PROCEDURE 6", RS-44.	EC
IGN	ION	Air bag is deployed. Seat belt pre-tensioner is deployed.	Go to "COLLISION DIAGNOSIS", RS-53.	GL
OFF	MRS097A	Air bag fuse, air bag diagnosis sensor unit or harness is malfunctioning and needs to be repaired.	Go to "DIAGNOSTIC PROCEDURE 9", RS-50.	MT
ON	gn on	One of the following has occurred and needs to be repaired. • Meter fuse is blown. • "AIR BAG" warning lamp circuit has open or	Go to "DIAGNOSTIC PROCEDURE 10", RS-52.	AT TF
OFF -	MRS098A	 Air bag diagnosis sensor unit is malfunctioning. 		PD AX

DIAGNOSTIC PROCEDURE 8 (CONTINUED FROM DIAGNOSTIC PROCEDURE 6) NGRS0061S03

Inspecting SRS malfunctioning record

1	CONSIDER POSSIBILITY OF NOT ERASING SELF-DIAGNOSTIC RESULT AFTER REPAIRING		
Is it tl	Is it the first time for maintenance of SRS?		
		Yes or No	
Yes	>	Go to "DIAGNOSTIC PROCEDURE 5", RS-41. (Further inspection cannot be performed without CONSULT-II.)	
No		Diagnosis results (previously stored in the memory) might not be erased after repair. Go to "DIAGNOSTIC PROCEDURE 7", RS-48.	

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Trouble Diagnoses: "AIR BAG" Warning Lamp Does Not Turn Off

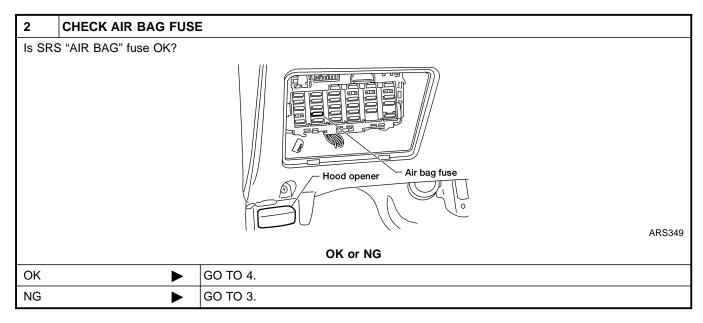
Trouble Diagnoses: "AIR BAG" Warning Lamp Does Not Turn Off

DIAGNOSTIC PROCEDURE 9

=NGRS0062

NGRS0062S01

1	SEE THE DEPLOYMENT OF AIR BAG MODULE		
Is air I	bag module deployed?		
		Yes or No	
Yes	•	Refer to "COLLISION DIAGNOSIS", RS-53.	
No	>	GO TO 2.	



3	CHECK AIR BAG FUSE AGAIN		
Replac	Replace "AIR BAG" fuse and turn ignition switch ON.		
		Is "AIR BAG" fuse blown again?	
Yes	>	Repair main harness.	
No	>	INSPECTION END	

4 CHE	CK DIAGNOSIS SI	ENSOR UNIT		
B Connect CC	DNSULT-II and touch AG" displayed on CC	"START".		
	. ,		SELECT SYSTEM	
			ENGINE	_
			A/T AIR BAG	_
				_
				SRS771
.,		00.70.5	Yes or No	
Yes No		GO TO 5.	ho wiring harnoss con	nection of air bag diagnosis sensor unit. If the har-
NO				eplace air bag diagnosis sensor unit.
-				
	connection between v		d air bag diagnosis ser	nsor unit OK?
	ZOTINIO GLOTI DOLLINO GLOTI	varming lamp and	OK or NG	ison unit of the
ОК		Replace air bag	diagnosis sensor unit	
				d air bag diagnosis sensor unit connector properly. not go off, replace harness.
NG	-	TIT "AIR BAG" W/S		
NG		IT "AIR BAG" WE	arriing lamp suii does i	lot go on, replace namess.
NG		IT "AIR BAG" WE	arming famp still does i	lot go on, replace namess.
NG		IT AIR BAG W	ariing lamp suii does i	lot go on, replace namess.
NG		IT AIR BAG W	ariing lamp suii does i	lot go on, replace namess.
NG		IT AIR BAG W	ariing iamp suii uoes i	iot go oii, repidoe nameos.
NG		IT AIR BAG W	ariing lamp suii does i	iot go oii, repiace namess.

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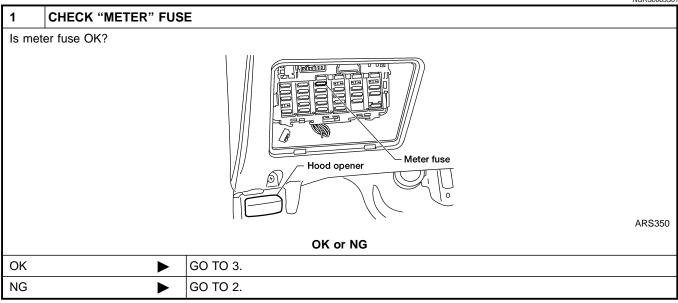
Trouble Diagnoses: "AIR BAG" Warning Lamp Does Not Turn On

Trouble Diagnoses: "AIR BAG" Warning Lamp Does Not Turn On

DIAGNOSTIC PROCEDURE 10

=NGRS0063

NGRS0063S01



2	CHECK "METER" FUSE AGAIN		
Replace meter fuse and turn ignition switch ON.			
Is meter fuse blown again?			
Yes	>	Repair main harness.	
No	>	INSPECTION END	

3	3 CHECK "AIR BAG" WARNING LAMP LED	
Is "AIR BAG" warning lamp LED OK?		
OK or NG		
OK	>	GO TO 4.
NG	>	Replace the combination meter warning lamp LED.

4	CHECK HARNESS CONNECTION BETWEEN AIR BAG DIAGNOSIS SENSOR UNIT AND "AIR BAG" WARNING LAMP			
Disconnect air bag diagnosis sensor unit connector and turn ignition switch "ON". • Does "AIR BAG" warning lamp turn on?				
	Yes or No			
Yes	>	Replace air bag diagnosis sensor unit.		
No	>	Check the ground circuit of "AIR BAG" warning lamp.		

Collision Diagnosis

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NGRS0064S01

Collision Diagnosis

To repair the SRS, perform the following steps.

When SRS is activated in a collision:

- 1) Replace the air bag diagnosis sensor unit.
- 2) Remove the air bag modules and seat belt pre-tensioner assemblies.
- 3) Check the SRS components using the table shown below:
- Replace any SRS components showing visible signs of damage (dents, cracks and deformation).
- 4) Install new air bag modules and seat belt pre-tensioner assemblies.
- 5) Conduct self-diagnosis using CONSULT-II or "AIR BAG" warning lamp. Refer to "SRS Operation Check", 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 and deformation).
- Conduct self-diagnosis using CONSULT-II or "AIR BAG" warning lamp. Refer to "SRS Operation Check", RS-35. Ensure entire SRS operates properly.

SRS INSPECTION (FOR FRONTAL COLLISION)

Part	SRS is activated	SRS is NOT activated	CL
Air bag module (driver and passenger side)	REPLACE Install with new special bolts coated with bonding agent.	 Remove air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. a. Install driver air bag module into the steering wheel to check fit and alignment with the wheel. 	MT
		 b. Install passenger air bag module into the instrument panel to check fit with the instrument panel. 3. No damage found, reinstall with new bolts coated with bonding agent. 4. If damaged—REPLACE. Install air bag modules with new special bolts coated with bonding agent. Air bag must be deployed before discarding. 	AT TF
Seat belt pre-ten- sioner assembly	REPLACE Install seat belt pre- tensioner with new	Remove seat belt pre-tensioners. Check harness cover and connectors for damage, terminals for deformities, and harness for binding.	PD
	bolts.	 Check belts for damage and anchors for loose mounting. Check retractor for smooth operation. If no damage is found, reinstall seat belt pre-tensioner assembly. If damaged—REPLACE. Install the seat belt pre-tensioners with new bolts 	
		coated with bonding agent. Seat belt pre-tensioners must be deployed before discarding.	SU -
Air bag diagnosis sensor unit	REPLACE Install with new bolts coated with bonding	 Check case for dents, cracks or deformities. Check connectors for damage, and terminals for deformities. If no damage is found, reinstall with new special bolts and ground bolt coated 	BR
	agent.	with bonding agent. 4. If damaged—REPLACE. Install diagnosis sensor unit with new special bolts and ground bolt coated with bonding agent.	ST
Steering wheel	2. Check harness and	ing wheel for deformities. connectors for damage, and terminals for deformities. le to check fit or alignment with steering wheel.	RS
	4. Check steering whe	el for excessive free play. nd, reinstall with new bolts.	BT
Spiral cable	 Check connectors a Check steering whe 	I cable and combination switch for damage. Ind protective tape for damage. It for noise, binding or heavy operation.	HA
	4. If no damage is four 5. If damaged—REPL/	nd, reinstall with new bolts. ACE.	SC

Collision Diagnosis (Cont'd)

Part	SRS is activated SRS is NOT activated
Harness and Connectors	 Check connectors for poor connection, damage, and terminals for deformities. Check harness for binding, chafing, cuts, or deformities. If no damage is found, reinstall the harness and connectors. Damaged—REPLACE damaged harness. Do not attempt to repair, splice or modify any SRS harness.
Instrument panel	 1. When passenger air bag inflates, check the following points for bending, deformities or cracks. Opening portion for passenger air bag
	• Passenger air bag module brackets ARS237
	Check points The portions securing the instrument panel
	ARS372 2. If no damage is found, reinstall the instrument panel. 3. If damaged—REPLACE the instrument panel with new bolts.