

SECTION **RS**

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SEAT BELTS

Precautions

Precautions

SUPPLEMENTAL RESTRAINT SYSTEM (SRS) "AIR BAG"

NDRS0001

The Supplemental Restraint System "AIR BAG", used along with a seat belt, helps 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 in the instrument panel on the passenger side), 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. SRS wiring harnesses are covered with yellow insulation either just before the harness connectors or on the complete harness, for easy identification.

CAUTION:

Certain systems and components, especially those related to OBD, may use a new style slide-locking type harness connector.

For description and how to disconnect, refer to EL section, "Description", "HARNESS CONNECTOR"

PRECAUTION FOR SEAT BELT SERVICE

NDRS0002

CAUTION:

- Do not disassemble buckle or seat belt assembly.
- Replace anchor bolts if they are deformed or worn out.
- Never oil tongue and buckle.
- If any component of seat belt assembly is questionable, do not repair. Replace the whole seat belt assembly.
- If webbing is cut, frayed, or damaged, replace seat belt assembly.
- When replacing seat belt assembly, use a genuine NISSAN seat belt assembly.
- After any collision, inspect all seat belt assemblies, including retractors and other attached hardware (i.e., guide rail set). Refer to "Seat Belt Inspection" for details (RS-7).

SEAT BELTS

Front Seat Belt

Front Seat Belt

REMOVAL AND INSTALLATION

1. Remove buckle from seat. For driver's side, disconnect harness connector.
2. Remove lower seat belt anchor bolt.
Remove center pillar lower garnish. Refer to BT section "Side and Floor Trim", "INTERIOR TRIM".
3. Remove shoulder anchor cover and nut.
Remove center pillar upper garnish.
4. Remove adjuster slide plate cover.
5. Remove two adjuster bolts and adjuster assembly.
6. Remove mid-guide.
7. Remove retractor screw.
Remove retractor.

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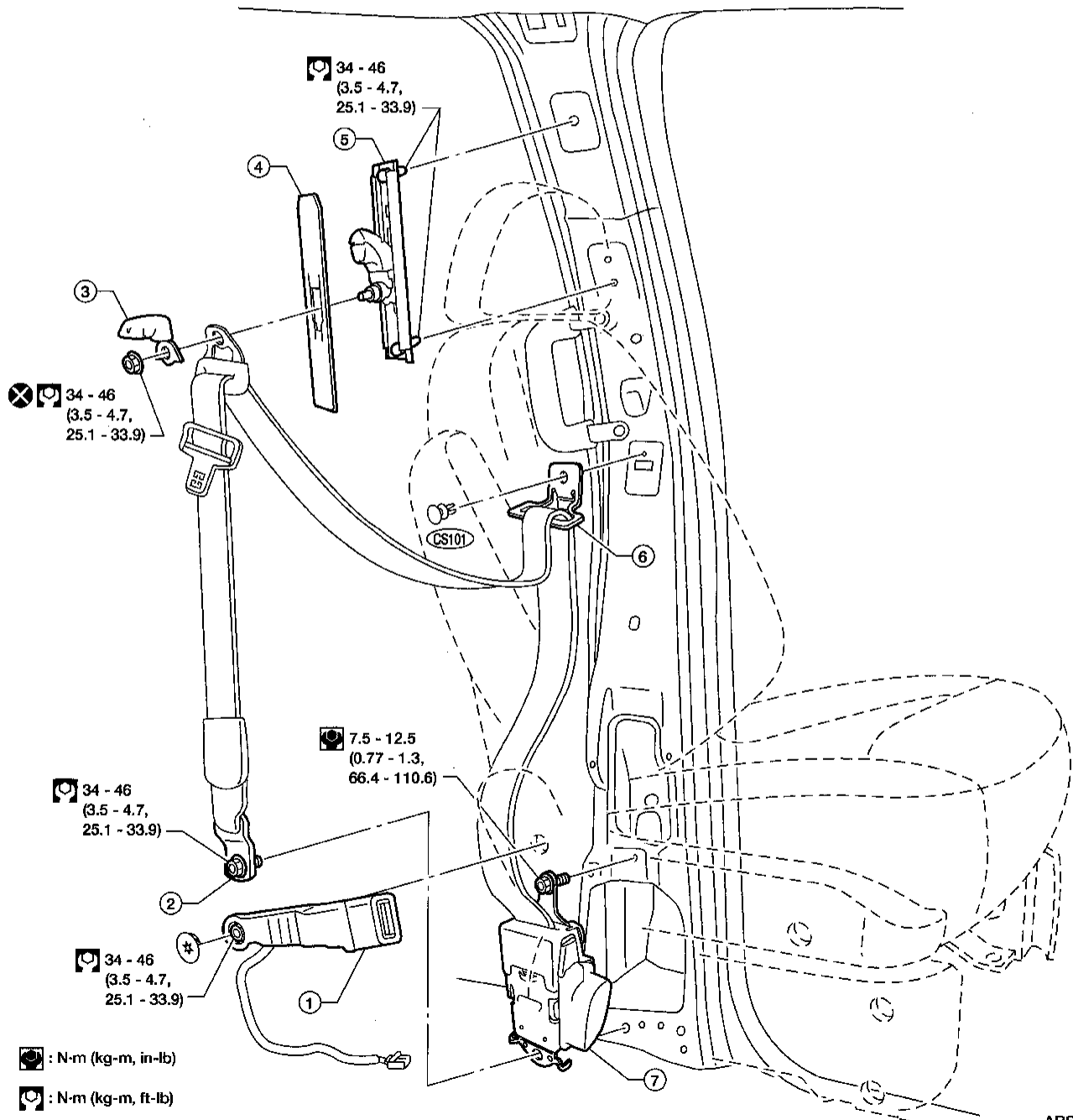
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RS-3

SEAT BELTS

Rear Seat Belt

Rear Seat Belt

REMOVAL AND INSTALLATION

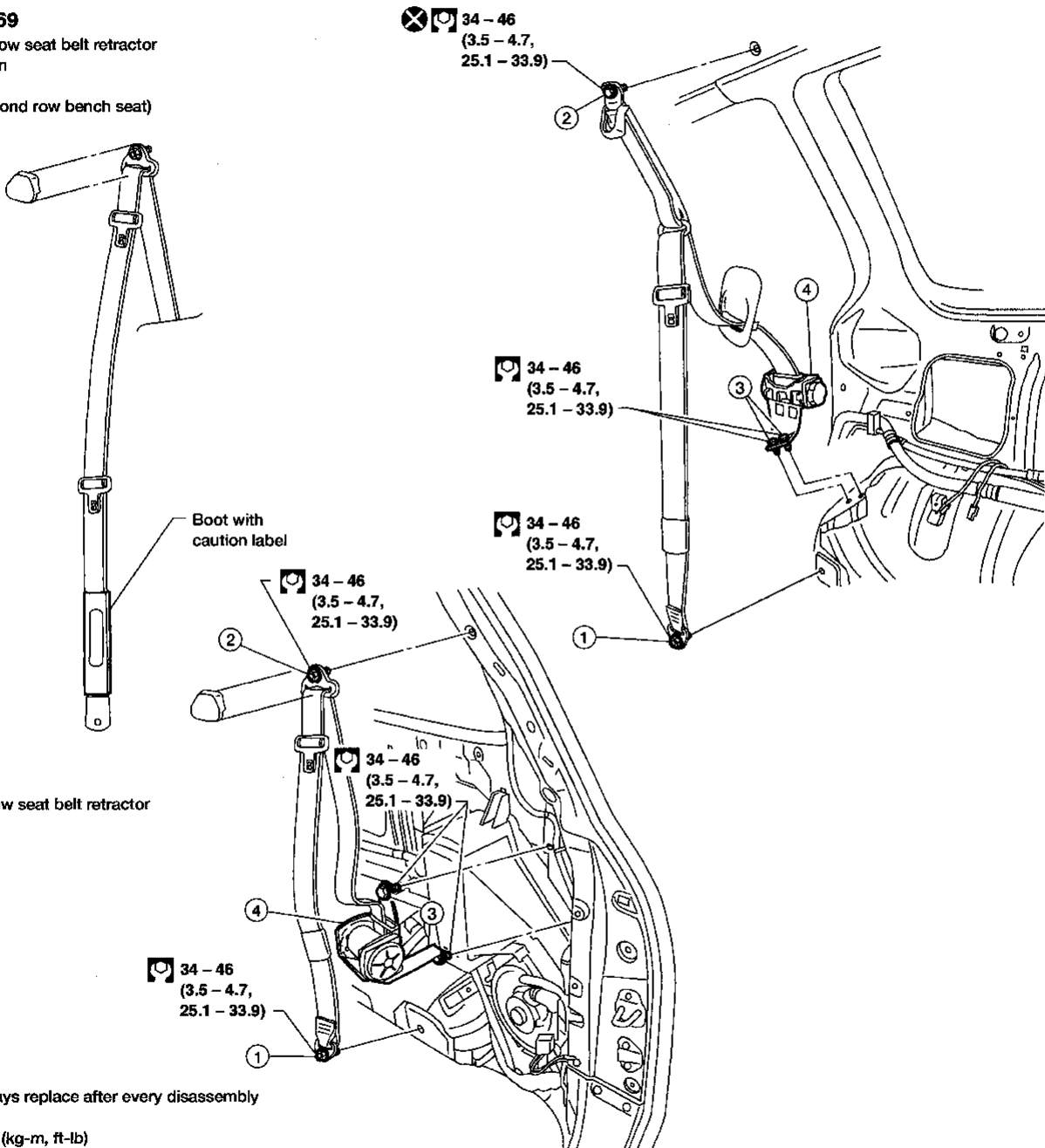
1. Remove lower seat belt anchor bolts.
Remove interior side trim. Refer to BT section "Side and Floor Trim", "INTERIOR TRIM".
2. Remove shoulder anchor cover and bolt.
3. Remove retractor bolt(s).
4. Remove retractor.

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SEC. 869

Second row seat belt retractor
RH shown

(With second row bench seat)

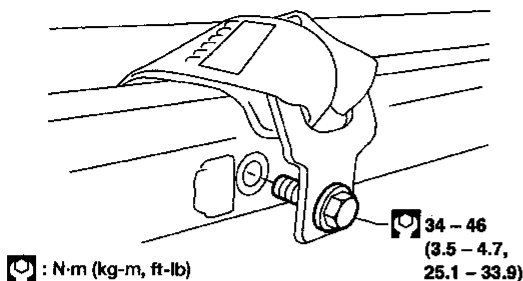


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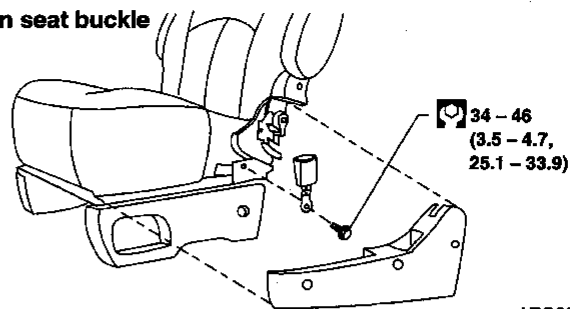
SEAT BELTS

Built-in Child Seat

Bench seat buckle



RH rear captain seat buckle



ARS266

Built-in Child Seat

REMOVAL AND INSTALLATION

Remove seat back rear cover.

- 1) Remove child seat pad.
- 2) Remove two nuts from rear of child seat back panel.
- 3) Remove two screws from child seat back panel. Pull out seat back panel and cushion assembly.
- 4) Remove two seat belt anchor bolts from sides of child seat.
- 5) Remove child seat frame and cushion. To service frame and buckle or cushion, separate cushion from frame.
- 6) Remove retractor bolt. To remove retractor, pull seat belts through seat back panel, energy absorber and seat frame.
- 7) Remove two headrest screws. Use a file to deburr screw holes and remove headrest.
- 8) Remove headrest bushings.
- 9) Remove energy absorber from seat frame.

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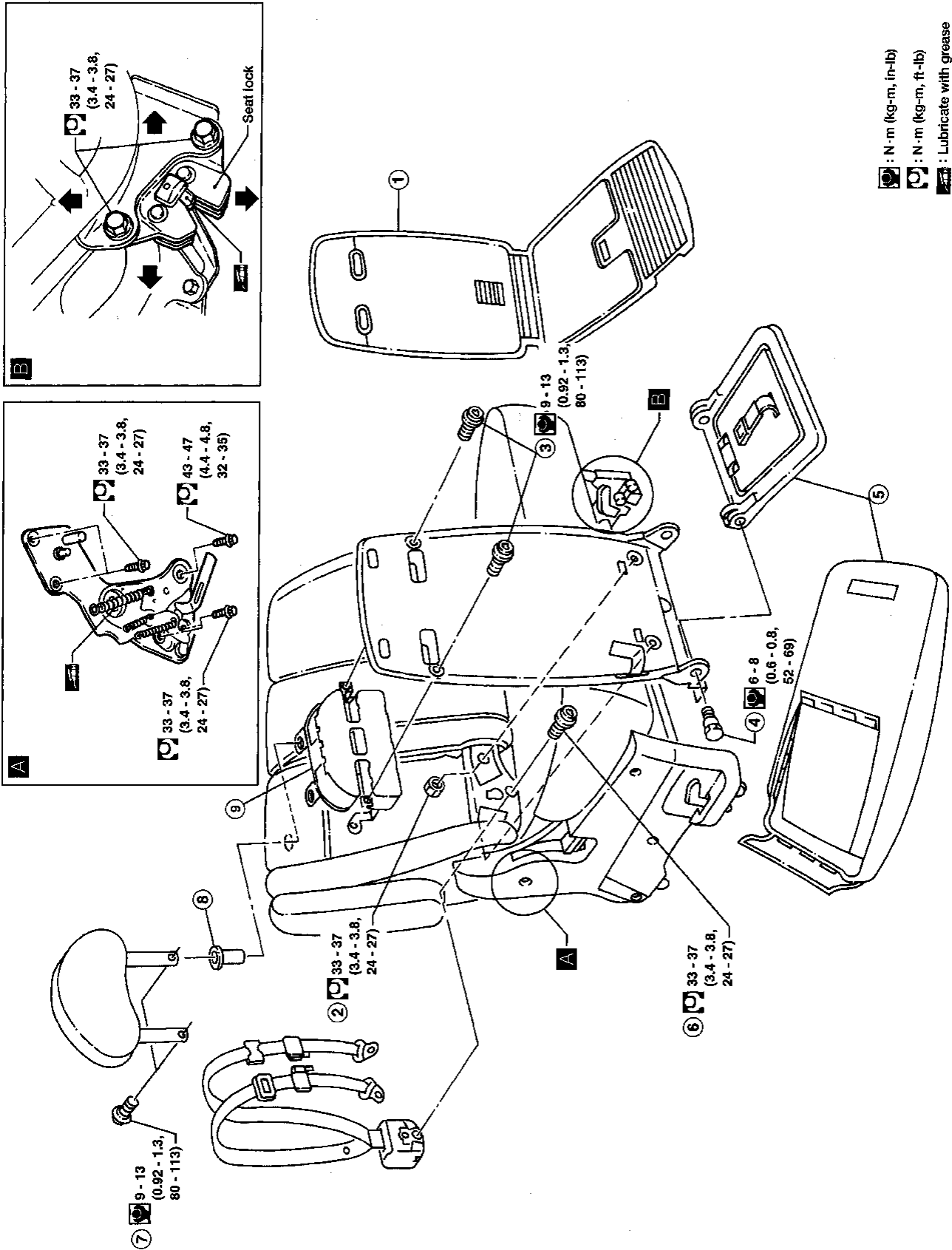
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SEAT BELTS

Built-in Child Seat (Cont'd)



: N·m (kg-m, in-lb)
 : N·m (kg-m, ft-lb)
 : Lubricate with grease

ARS086

SEAT BELTS

Seat Belt Inspection

Seat Belt Inspection

-NDRS0029

NDRS0029S01

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.

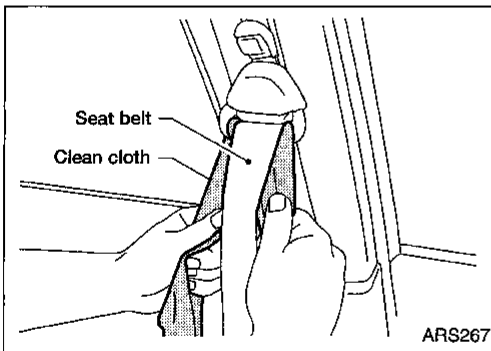
Replace any seat belt assembly if:

- 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.

PRELIMINARY CHECKS

NDRS0029S02

1. Check the seat belt warning lamp/chime for proper operation as follows:
 - a. Turn ignition switch 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.
2. Check that the seat belt retractor, seat belt anchor and buckle bolts are securely attached.
3. 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 including:
 - 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. because 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 BELTS

Seat Belt Inspection (Cont'd)

SEAT BELT RETRACTOR ON-VEHICLE CHECK

=NDRS0029S03

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

NDRS0029S0301

NOTE:

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.

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

ELR Function Stationary Check

NDRS0029S0302

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

ALR Function Stationary Check

NDRS0029S0304

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 that the retractor is in the Automatic Locking (ALR) mode.
3. 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)

NDRS0029S0303

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 that is to be tested.
2. 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.

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

SEAT BELTS

Seat Belt Inspection (Cont'd)

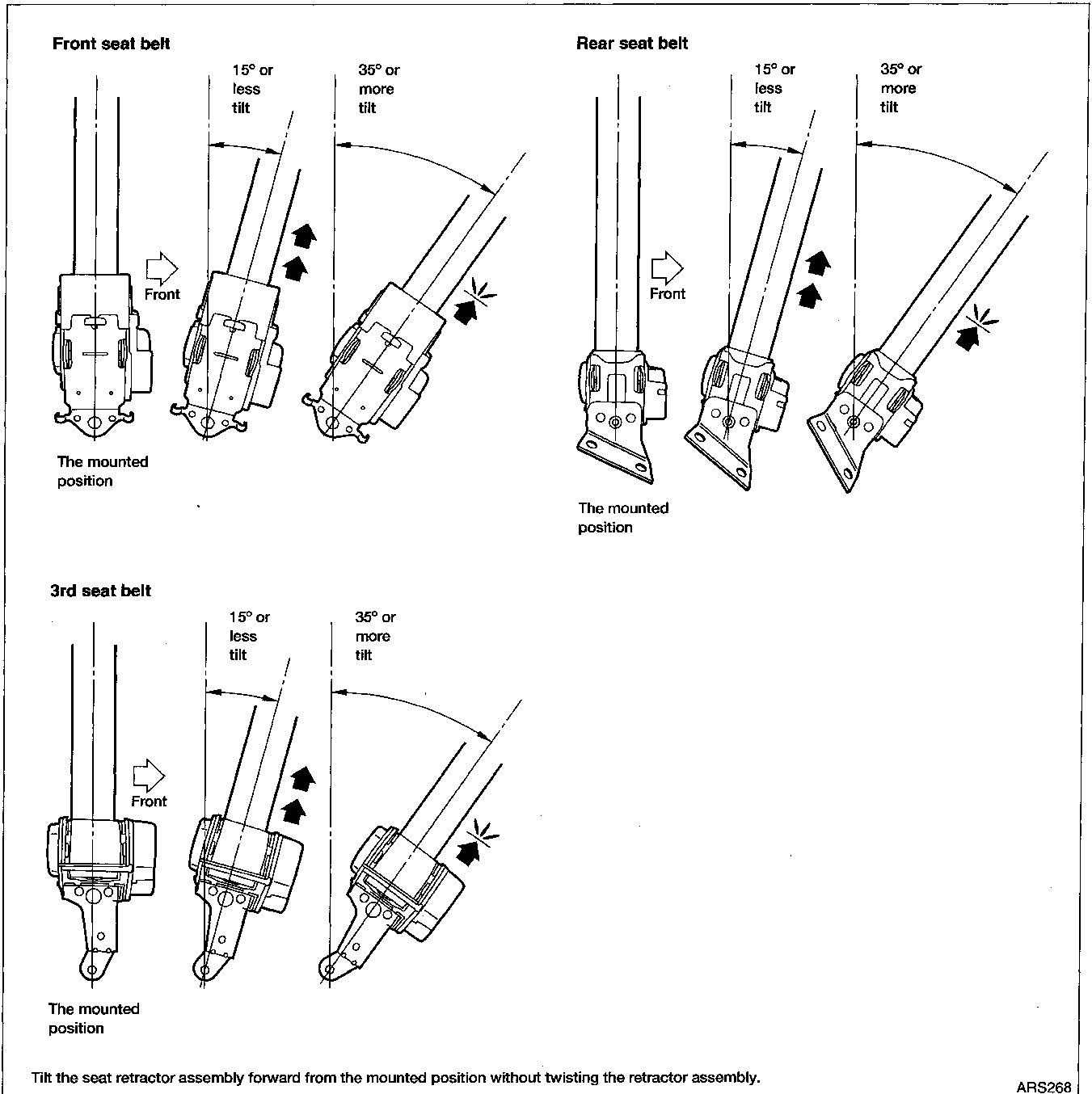
SEAT BELT RETRACTOR OFF-VEHICLE CHECK

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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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SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Precautions

Precautions

SUPPLEMENTAL RESTRAINT SYSTEM (SRS) "AIR BAG"

NDRS0005

The Supplemental Restraint System "AIR BAG", used along with a seat belt, helps 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 in the instrument panel on the passenger side), 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. SRS wiring harnesses are covered with yellow insulation either just before the harness connectors or on the complete harness, for easy identification.

CAUTION:

Certain systems and components, especially those related to OBD, may use a new style slide-locking type harness connector.

For description and how to disconnect, refer to EL section, "Description", "HARNES CONNECTOR"

PRECAUTIONS FOR SRS "AIR BAG" SERVICE

NDRS0006

- 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 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 cracks, deformities 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 the pad side facing upward.
- Conduct self-diagnosis to check entire SRS for proper function after replacing any components.
- After air bag inflates, the instrument panel assembly should be replaced if damaged.

WIRING DIAGRAMS AND TROUBLE DIAGNOSIS

NDRS0007

When you read wiring diagrams, refer to the following:

- "HOW TO READ WIRING DIAGRAMS" in GI section
- "POWER SUPPLY ROUTING" for power distribution circuit in EL section

When you perform trouble diagnosis, refer to the followings:

- "HOW TO FOLLOW TEST GROUP IN TROUBLE DIAGNOSIS" in GI section
- "HOW TO PERFORM EFFICIENT DIAGNOSIS FOR AN ELECTRICAL INCIDENT" in GI section

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

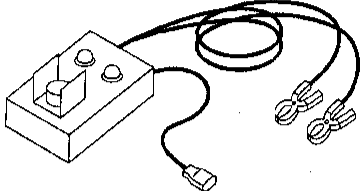
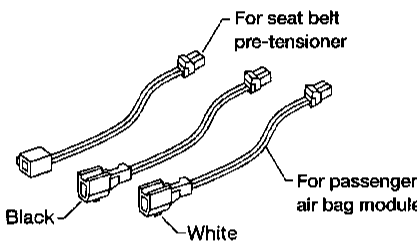
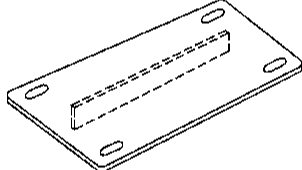
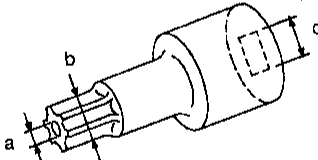
Preparation

Preparation

SPECIAL SERVICE TOOLS

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

Tool number (Kent-Moore No.) Tool name	Description	
KV991072S0 (J38381-KIT) Air bag deployment kit KV99106400 (J38381) Deployment tool	 <p>Disposing of air bag module</p> <p>NT357</p>	GI MA EM LC EC
KV991065S0 (J38381-30) Deployment tool adapters	 <p>ARS269</p>	FE AT AX SU
KV99105300 (J41246) Air bag module bracket	 <p>Anchoring air bag module</p> <p>NT354</p>	BR ST RS
HT61961000 and HT62152000 combined (J38219) *Special torx bit	 <p>Use for special bolts [TAMPER RESISTANT TORX (Size T50)] a: 3.5 (0.138) dia. b: 8.5 - 8.6 (0.335 - 0.339) dia. c: approx. 10 (0.39) sq. Unit: mm (in)</p> <p>NT361</p>	BT HA SC

*: Special tool or commercial equivalent

EL

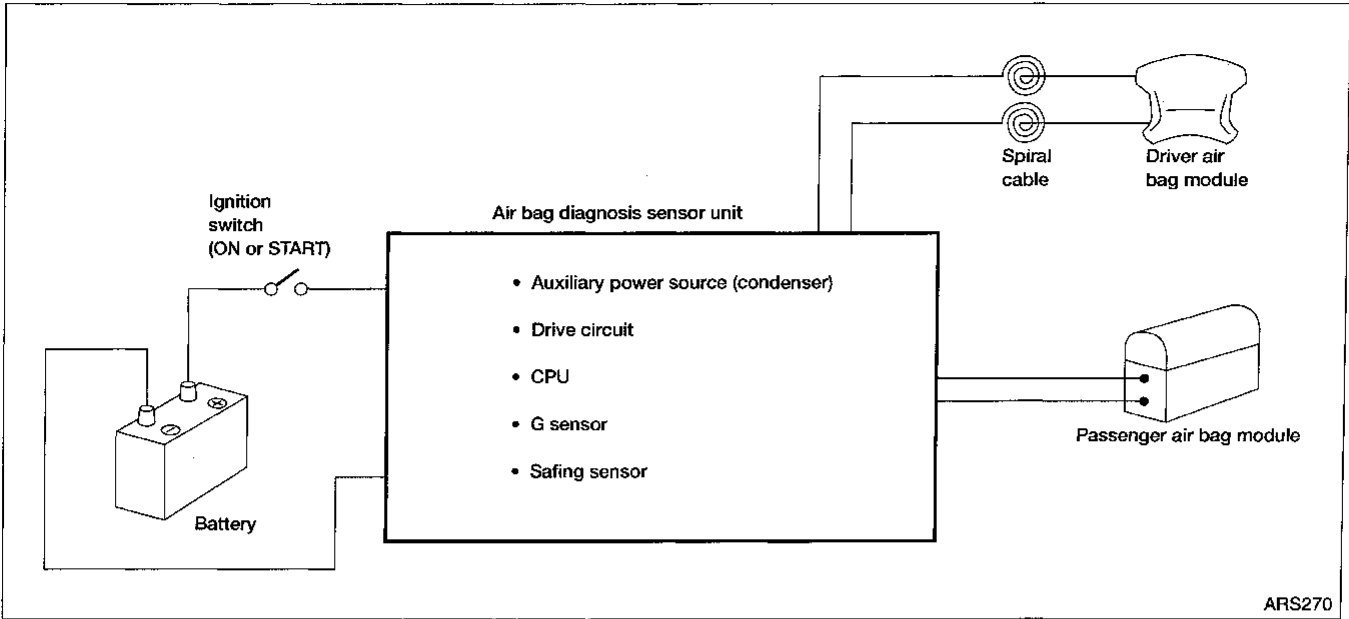
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SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Description

Description

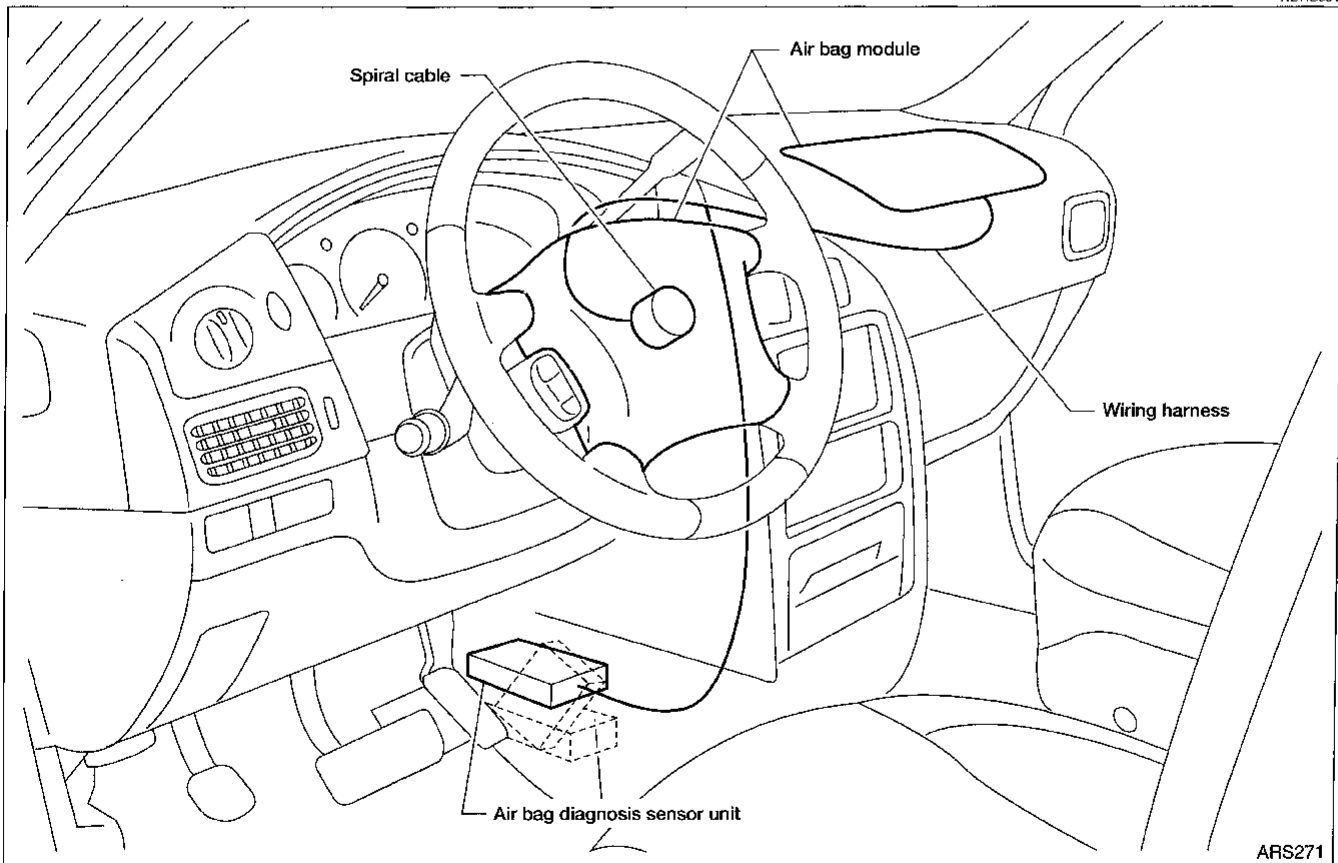
NDRS0009



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

SRS Component Parts Location

NDRS0010





Maintenance Items

NDRS0011

1. 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 RS-31 for details.

 - The warning lamp does not illuminate when the ignition switch is turned ON.
 - The warning lamp does not turn off about 7 seconds after the ignition switch is turned ON.
 - The warning lamp blinks after illuminating for about 7 seconds after the ignition switch is turned ON.
2. Visually check SRS components
 - 1) Air bag diagnosis sensor unit
 - Check air bag diagnosis sensor unit and bracket for dents, cracks and deformities.
 - Check connectors for damage and terminals for deformities.
 - 2) 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 to instrument panel to check fit or alignment with the instrument panel.
 - 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 and air bag harness
 - Check connectors for poor connections, damage, and terminals for deformities.
 - Check harnesses for binding, chafing and cuts.

CAUTION:

Replace previously used special bolts, nuts and ground nut with new ones.

Diagnosis Sensor Unit

REMOVAL AND INSTALLATION

NDRS0012

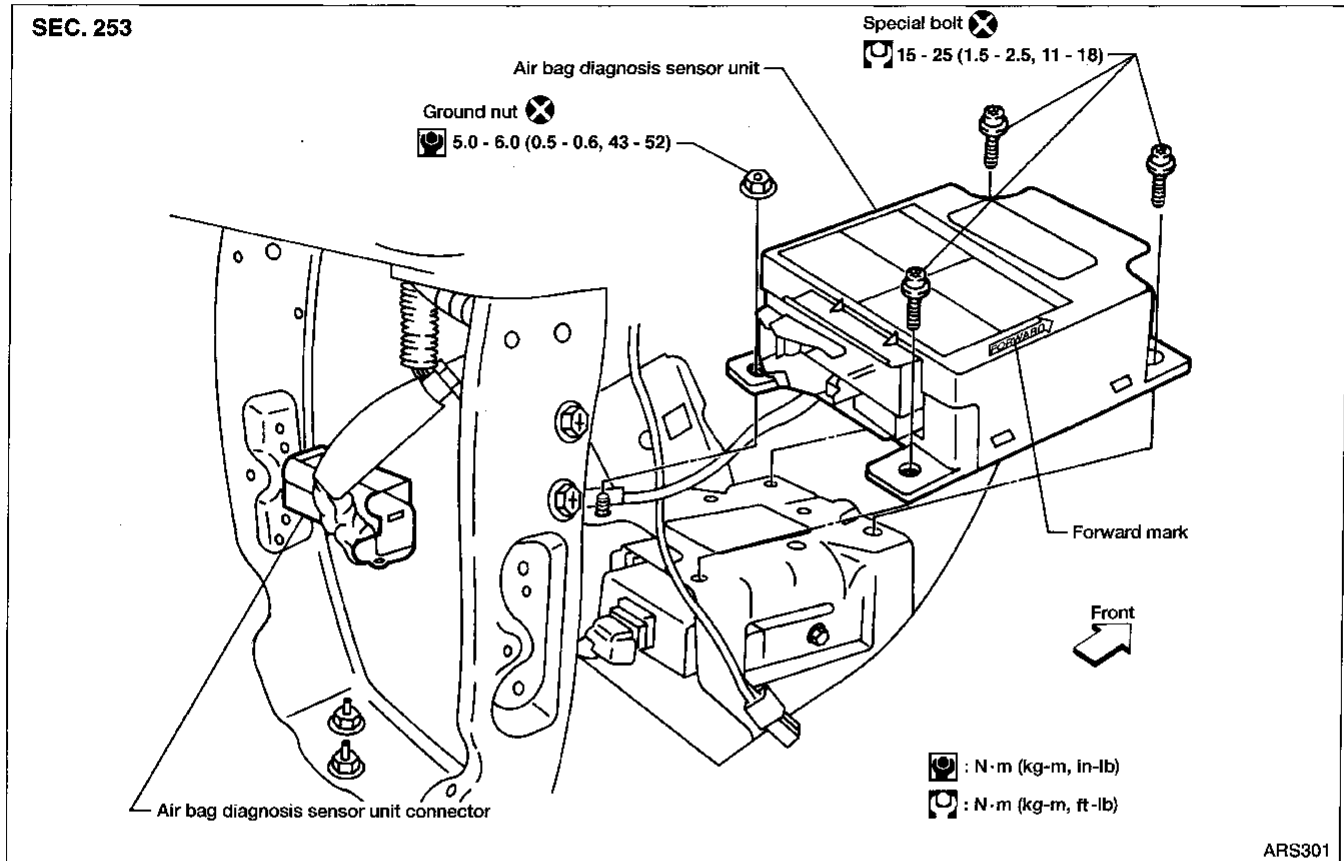
CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait for at least 3 minutes.
- The special bolts are coated with bonding agent while the nut is for ground. Do not reuse nut and bolts after removal; replace with new ones.
- Check air bag diagnosis sensor unit for proper installation.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Diagnosis Sensor Unit (Cont'd)

- 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.
2. Remove console box. Refer to "INSTRUMENT PANEL ASSEMBLY" in BT section.
3. Disconnect air bag diagnosis sensor unit connector.
4. Remove ground nut and also remove special bolts using the TAMPER RESISTANT TORX (Size T50), 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 and nut in the sequence indicated in the illustration.
- After replacement, perform self-diagnosis for SRS. Refer to "TROUBLE DIAGNOSES — Supplemental Restraint System (SRS)", "SRS Operation Check", RS-31

CAUTION:

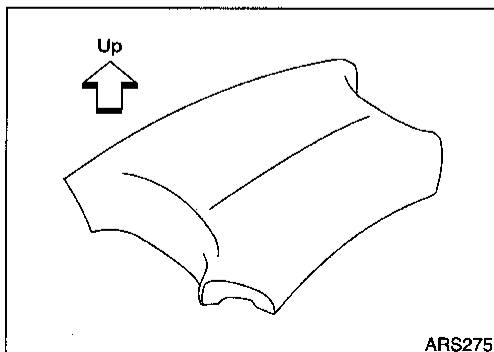
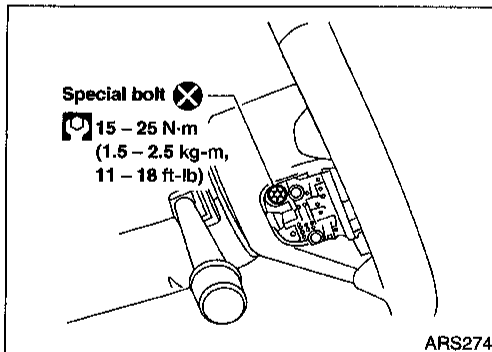
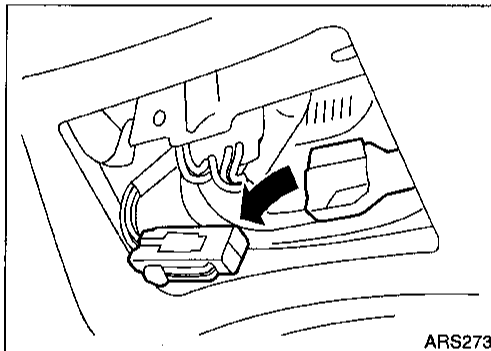
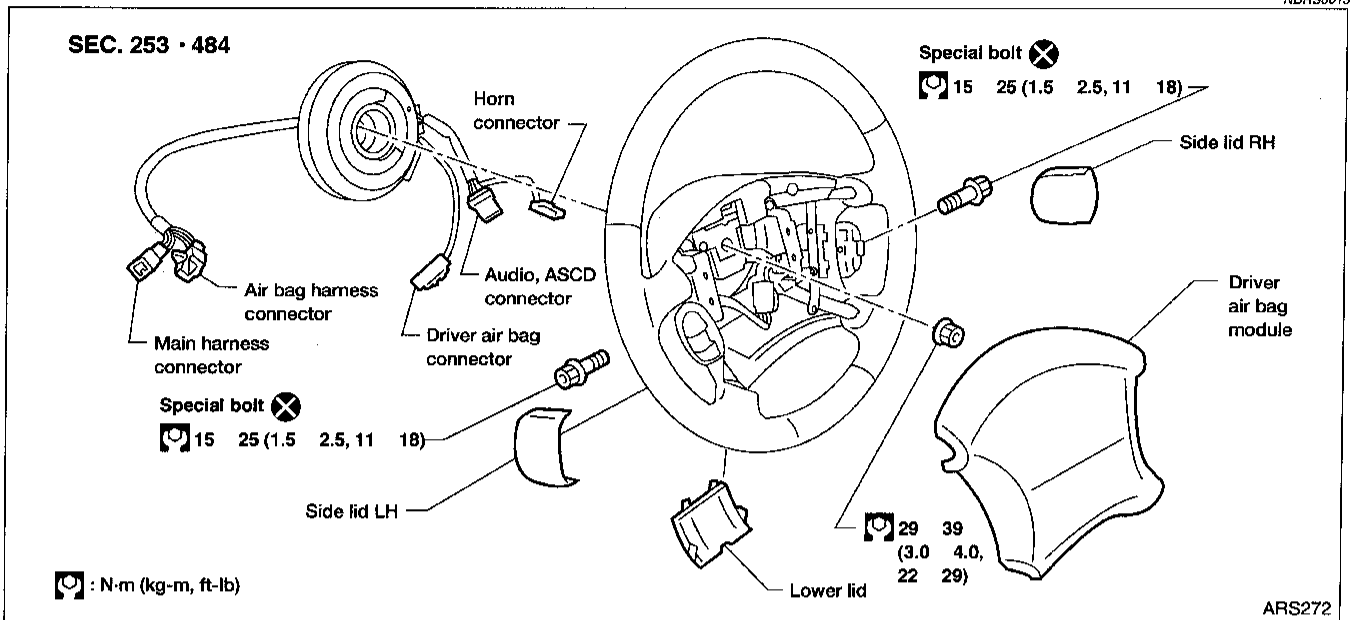
Air bag diagnosis sensor unit must always be installed with forward mark "←" pointing toward the front of the vehicle for proper operation. Also check air bag diagnosis sensor unit for cracks, deformities and rust before installation and replace as required.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Driver Air Bag Module and Spiral Cable

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

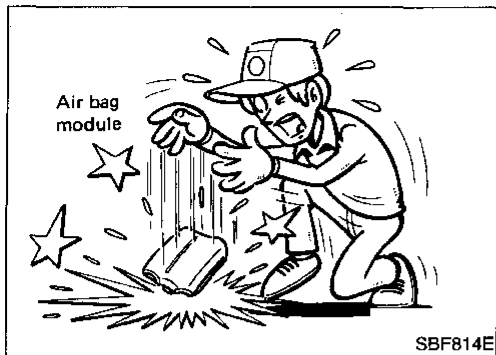
2. Remove side lids. Using the TAMPER RESISTANT TORX (Size T50), remove left and right special bolts.
3. Disconnect horn connector. Driver air bag module can then be removed.

CAUTION:

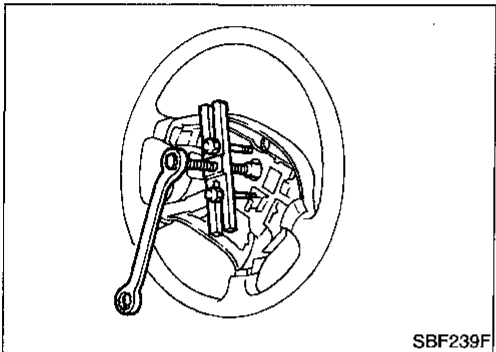
- Always place air bag module with pad side facing upward.
- Do not attempt to disassemble air bag module.
- The special bolts are coated with bonding agent. Do not use old bolts after removal; replace with new ones.
- Do not insert any foreign objects (screwdriver, etc.) into air bag module connector.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Driver 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.



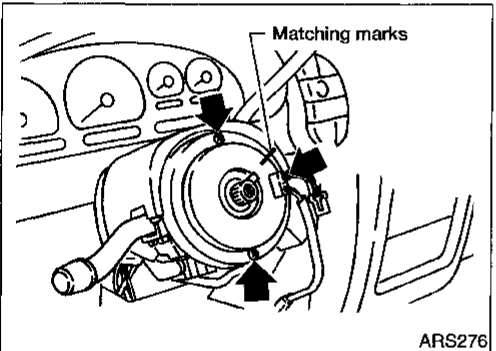
4. Set steering wheel in the neutral position.
5. Disconnect spiral cable connector from steering wheel sub-harness and remove nut.
6. Using steering wheel puller, remove steering wheel. Be careful not to over-tighten puller bolt on steering wheel.

CAUTION:

- Do not tap or bump the steering wheel.
7. Remove steering column cover, instrument panel lower LH and knee protector.
 8. Disconnect spiral cable connectors from main harness and air bag harness.
 9. Make matching marks on spiral cable for alignment during installation. Remove the three screws. The spiral cable can then be removed.

CAUTION:

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



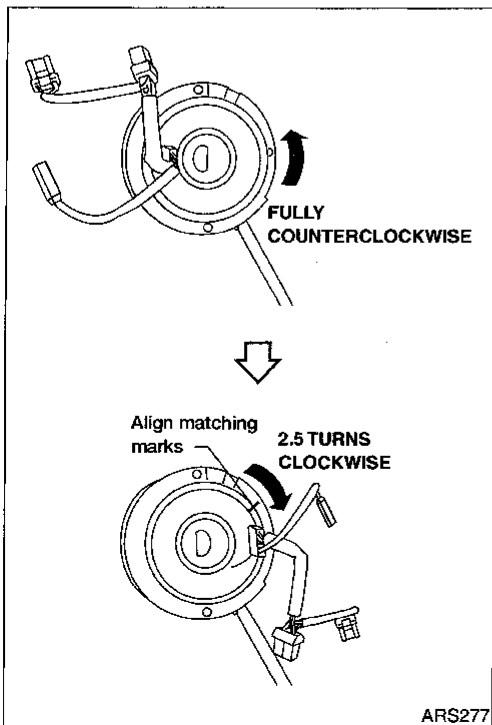
INSTALLATION

NDRS0015

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

CAUTION:


- The spiral cable may snap due to steering operation if the cable is installed in an improper position.
 - Also, with the steering linkage disconnected, the cable may snap by turning the steering wheel beyond the limited number of turns. The spiral cable can be turned to the right about 2.5 turns from the left end position.
3. Connect spiral cable connectors to the main harness and the air bag harness and install screws. Install knee protector, instrument panel lower LH and steering column cover.
 4. Install steering wheel, aligning with spiral cable, and pull spiral cable through.
 5. Connect spiral cable to steering wheel sub-harness. Move air bag module connector away from steering wheel lower lid opening.

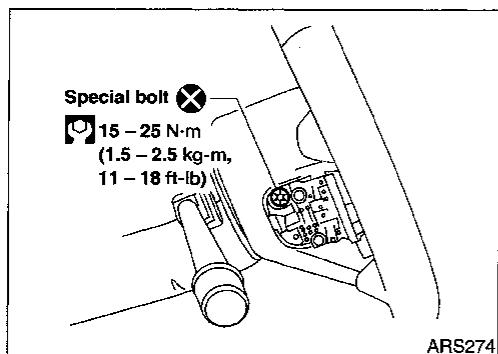


SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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

6. Tighten nut.

 : 29 - 39 N·m (3.0 - 4.0 kg·m, 22 - 29 ft·lb)



7. Connect horn connector, position air bag module and install new special bolts.

8. Connect driver air bag module connector.

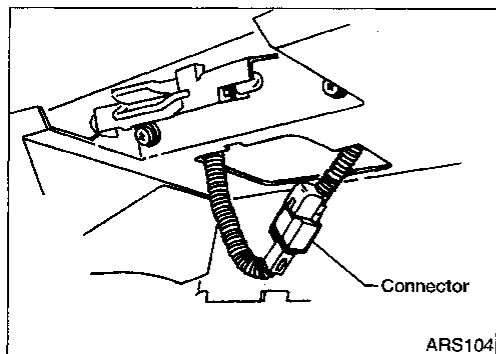
9. Install all lids.

10. Conduct self-diagnosis to ensure entire SRS operates properly. (Use CONSULT or warning lamp check.) Before performing self-diagnosis, connect both battery cables.

11. 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 (in User mode), it shows the spiral cable may be snapped due to its improper position. Perform self-diagnosis again (use CONSULT or "AIR BAG" warning lamp). If a malfunction is detected, replace the spiral cable with a new one.

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



Front Passenger Air Bag Module

REMOVAL

NDRS0016

CAUTION:

- 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 or under air bag module.

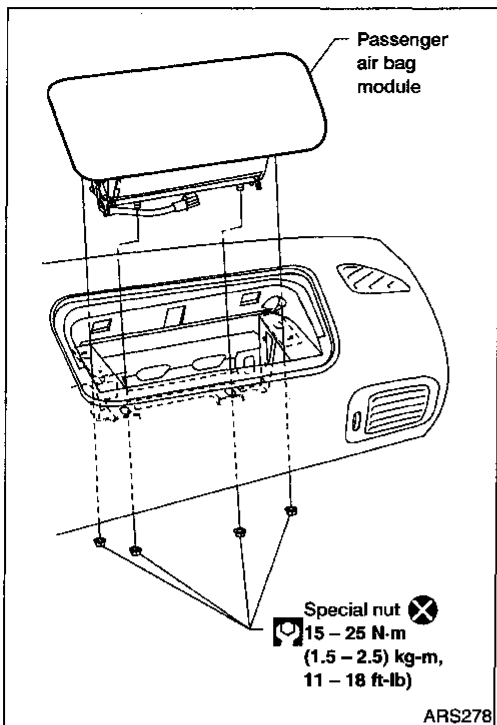
1. Remove access panel in glove box and disconnect passenger air bag module connector.

2. Remove glove box assembly. Refer to "INSTRUMENT PANEL ASSEMBLY" in BT section for details.

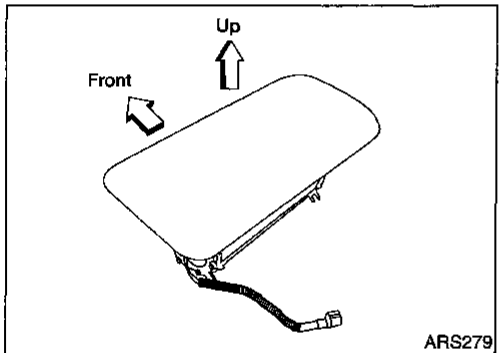
3. Remove instrument panel lower RH. Refer to "INSTRUMENT PANEL ASSEMBLY" in BT section for details.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Front Passenger Air Bag Module (Cont'd)

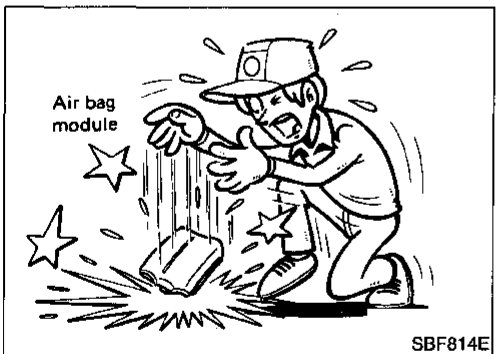


4. Remove special nuts from passenger air bag module.
 - The air bag module is heavy and should be supported using both hands during removal.



CAUTION:

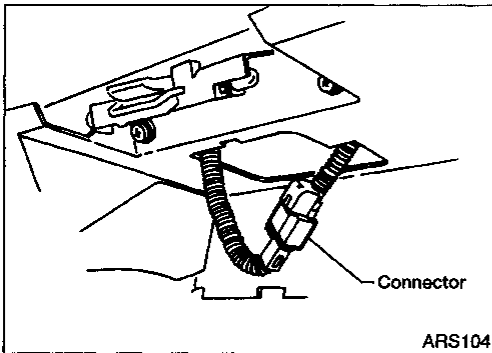
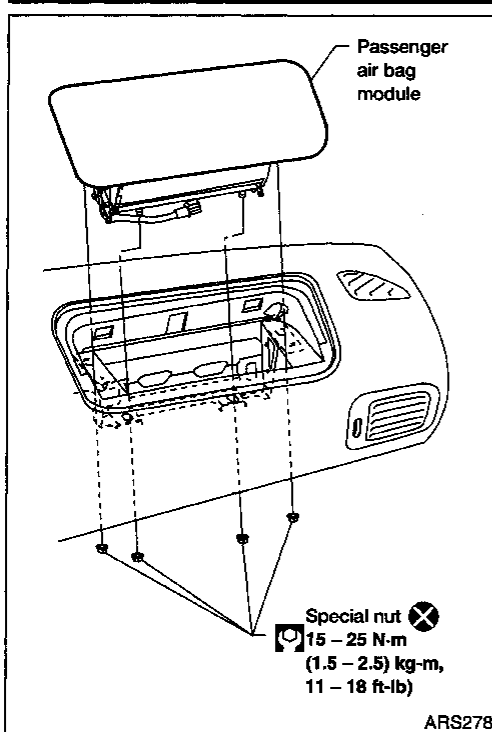
- Always place air bag module with pad side facing upward.
- Do not attempt to disassemble air bag module.
- The special nuts are coated with bonding agent. Do not use old nuts after removal; replace with new coated nuts.
- Do not insert any foreign objects (screwdriver, etc.) into air bag module connector.



- 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 instrument panel assembly should be replaced if damaged.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Front Passenger Air Bag Module (Cont'd)



INSTALLATION

CAUTION:

- Always work from the side of an air bag module.
1. Install passenger air bag module in instrument panel assembly with new special nuts.
 - Ensure harness is not caught between air bag module and steering member.

2. Install instrument panel lower RH.
3. Install glove box assembly.
4. Connect air bag module connector to air bag harness connector and install access panel.
5. Connect both battery cables.
6. Conduct self-diagnosis to ensure entire SRS operates properly. (Use CONSULT or warning lamp check.)

Disposal of Air Bag Module

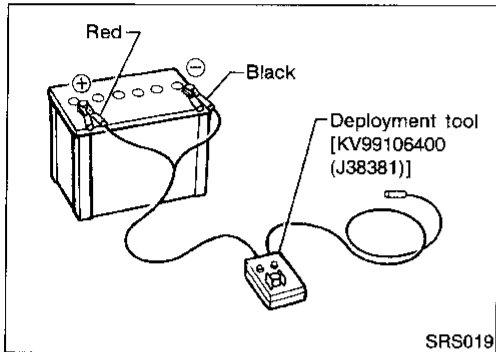
- Before disposing of air bag modules or vehicles equipped with such a system, deploy the system. If such a system has already been deployed due to an accident, dispose of as indicated in "DISPOSING OF AIR BAG MODULE" (RS-23).
- When deploying the air bag module, always use the Special Service Tool; Deployment tool KV99106400 (Kent-Moore No. J38381).
- When deploying the air bag module stand at least 5 m (16 ft) away from the deployment component.
- When deploying air bag module, 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.
- Be sure to wear gloves when handling a deployed air bag module.
- Never apply water to a deployed air bag module.
- Wash your hands clean after finishing work.
- Place the vehicle outdoors with an open space of at least 6 m

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Disposal of Air Bag Module (Cont'd)

(20 ft) on all sides when deploying air bag module while mounted in vehicle.

- Use a voltmeter to make sure the vehicle battery is fully charged.
- Do not dispose of the air bag module un-deployed.



CHECKING DEPLOYMENT TOOL

Connecting to Battery

NDRS0018S01

NDRS0018S0101

CAUTION:

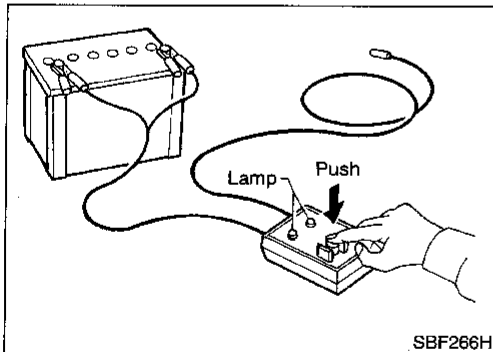
The battery must show voltage of 9.6V or more.

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.

CAUTION:

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



Deployment Tool Check

NDRS0018S0102

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)

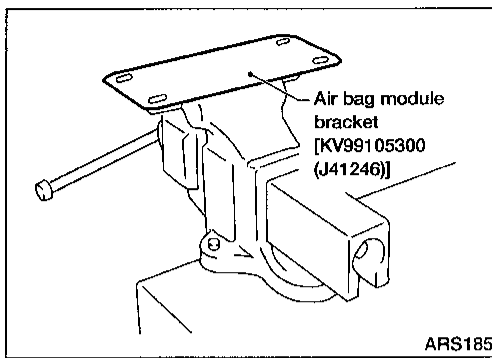
NDRS0018S0103

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.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Disposal of Air Bag Module (Cont'd)



DEPLOYMENT PROCEDURES FOR AIR BAG MODULE (OUTSIDE OF VEHICLE)

NDRS0018S02

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 Air Bag Module (Outside of vehicle)

NDRS0018S0201

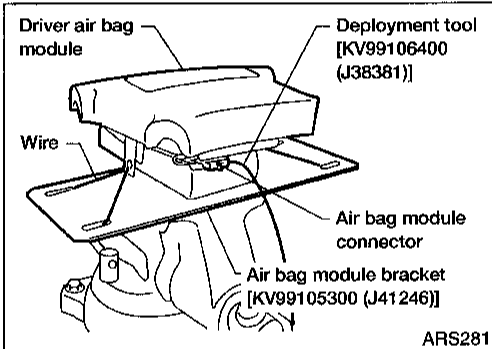
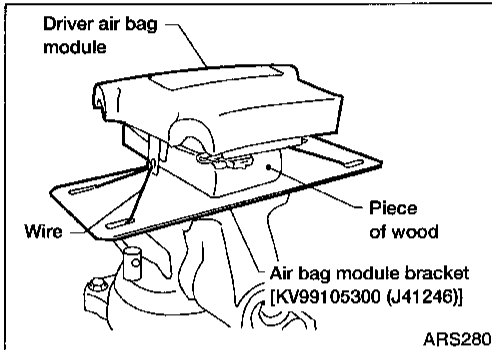
1. Using wire, secure air bag module to air bag module bracket [SST: KV99105300 (J41246)] at two places.

CAUTION:

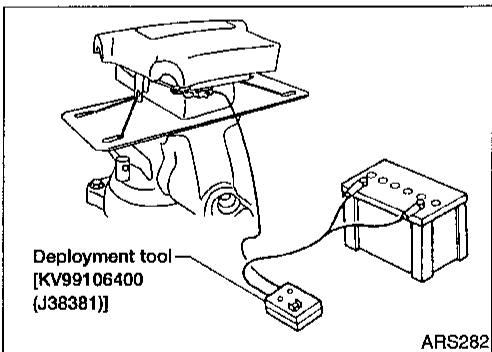
If a gap exists between driver air bag module and air bag module bracket, use a piece of wood inserted in the gap to stabilize the air bag module.

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

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



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



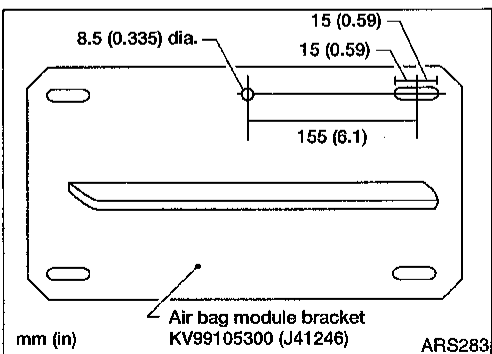
4. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.

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.



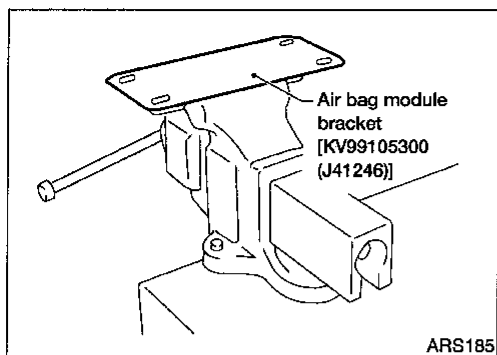
Deployment of Passenger Air Bag Module (Outside of vehicle)

NDRS0018S0202

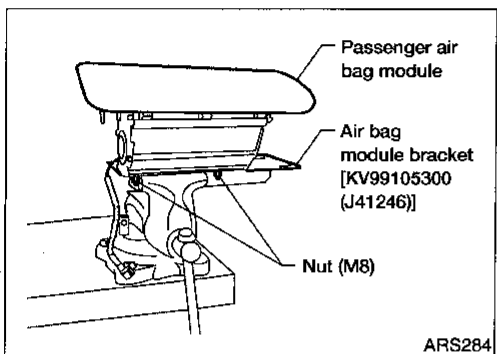
1. Make an 8.5 mm (0.335 in) diameter hole in air bag module bracket [SST: KV99105300 (J41246)] at the position shown in figure at left.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

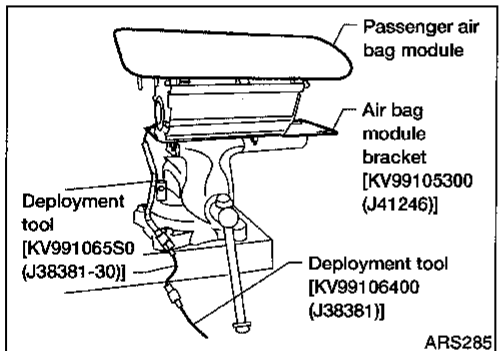
Disposal of Air Bag Module (Cont'd)



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



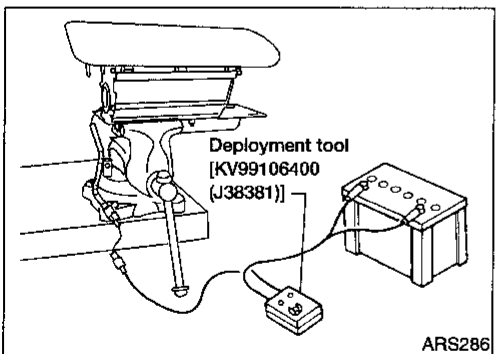
3. Match the two holes in air bag module bracket (held in vise) and passenger air bag module and fix them with two nuts [M8].



4. Connect deployment tool adapter [SST: KV1065S01 (J38381-30)] to deployment tool [SST: KV99106400 (J38381)] connector and passenger air bag module connector.
5. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
6. The lamp on the right side of the tool, marked "DEPLOYMENT TOOL POWER", should glow green, not red.
7. Press the button on the deployment tool. The left side lamp on the tool, marked "AIR BAG CONNECTOR VOLTAGE", will illuminate and the air bag module will deploy.

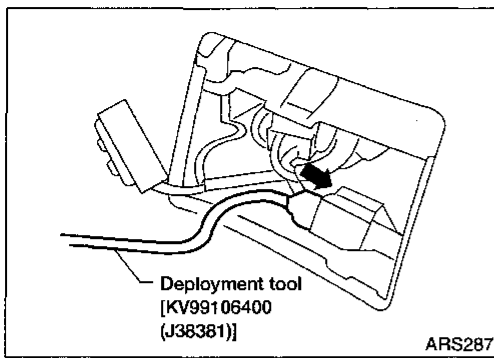
CAUTION:

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



SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Disposal of Air Bag Module (Cont'd)



DEPLOYMENT OF AIR BAG MODULE WHILE MOUNTED IN VEHICLE

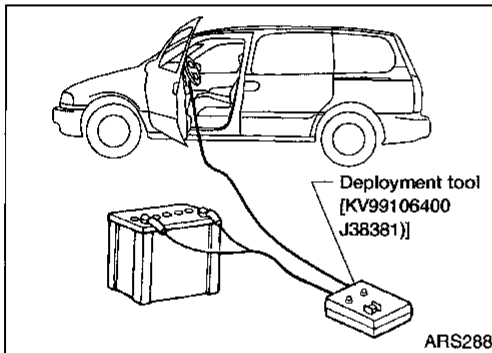
When disposing of a vehicle, deploy air bag module while it is mounted in vehicle.

CAUTION:

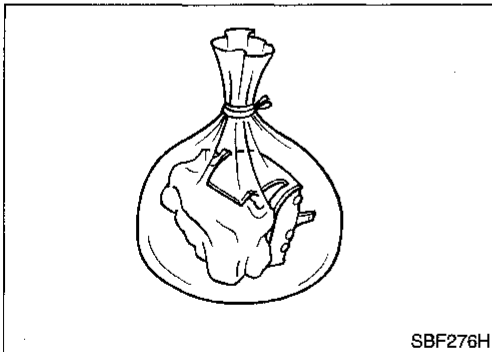
When deploying air bag module, ensure vehicle is empty.

1. Disconnect both battery cables and wait 3 minutes.
2. Disconnect air bag module connector.
3. Connect deployment tool [SST: KV99106400 (SST: J38381)] to air bag module.

For front passenger air bag module, use deployment tool adapter [SST: KV991065S0 (J38381-30)] to attach passenger air bag module to deployment tool 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.



DISPOSING OF AIR BAG MODULE

Deployed air bag module is very hot. Before disposing of air bag module, wait at least 30 minutes. Seal it in a plastic bag before disposal.

CAUTION:

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

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Trouble Diagnoses Introduction

Trouble Diagnoses Introduction

=NDRS0030

CAUTION:

- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses are covered with yellow insulation either just before the harness connectors or on the complete harness, for easy identification.
- Do not attempt to repair, splice or modify the SRS wiring harness. If the harness is damaged, replace it with a new one.
- Keep ground portion clean.

DIAGNOSIS FUNCTION

The SRS self-diagnosis results can be read by using "AIR BAG" 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.

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

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

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

DIAGNOSIS MODE FOR CONSULT

NDRS0030S02

- "SELF-DIAG [CURRENT]"

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

- "SELF-DIAG [PAST]"

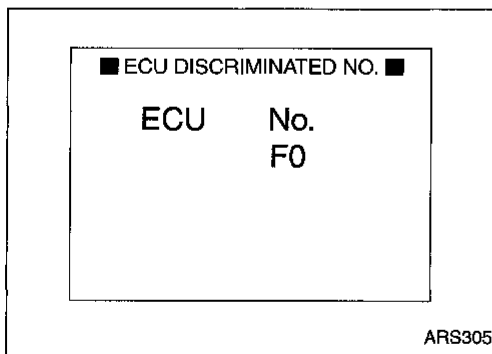
Diagnosis results previously stored in the memory are displayed on the CONSULT screen. The stored results are not erased until memory erasing is executed.

- "TROUBLE DIAG RECORD"

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

- "ECU DISCRIMINATED NO."

The air bag 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 below. When replacing the air bag 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 NISSAN MODEL V41, the air bag diagnosis sensor unit classification number assigned is F0.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Trouble Diagnoses Introduction (Cont'd)

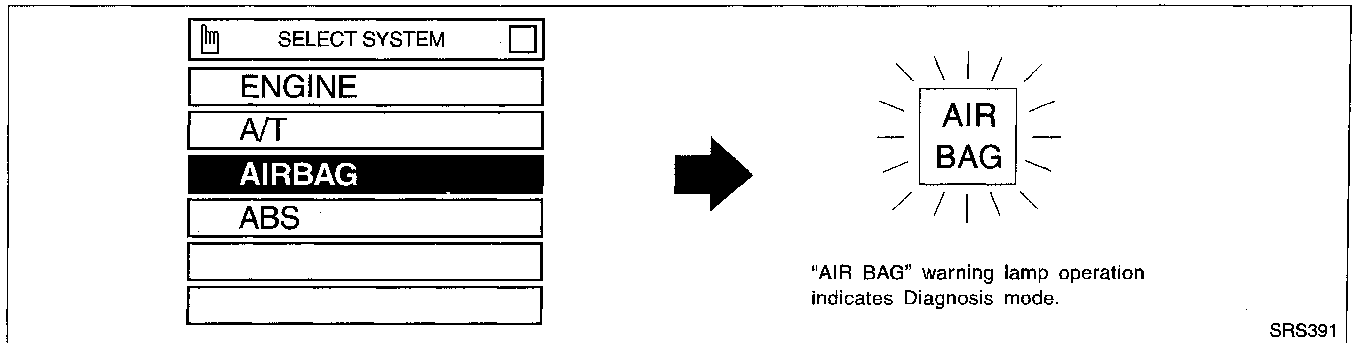
④ HOW TO CHANGE SELF-DIAGNOSIS MODE WITH CONSULT

=NDRS0030S03

From User Mode to Diagnosis Mode

NDRS0030S0301

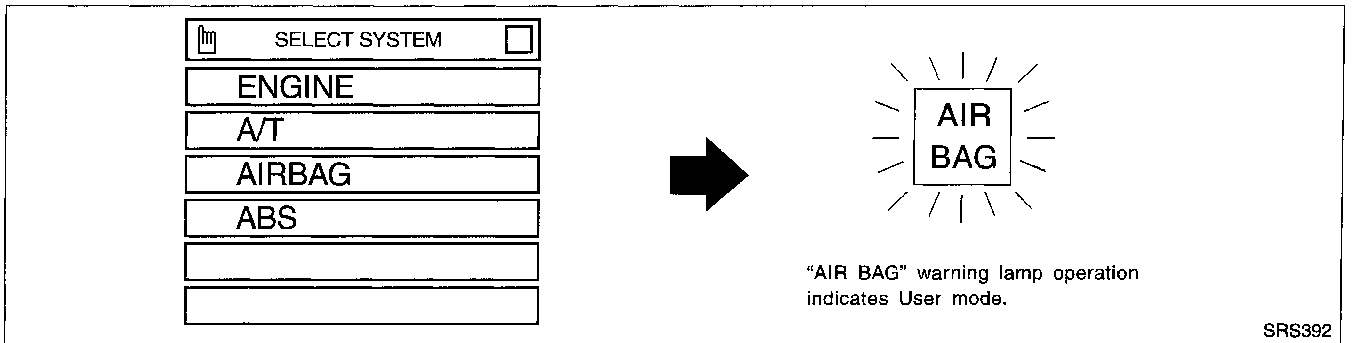
Touch "AIRBAG" on the "SELECT SYSTEM" screen. User mode automatically changes to Diagnosis mode.



From Diagnosis Mode to User Mode

NDRS0030S0302

Touch "BACK" key of CONSULT until "SELECT SYSTEM" appears. Diagnosis mode automatically changes to User mode.



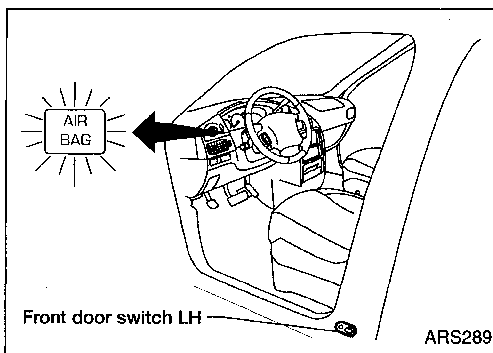
⊗ HOW TO CHANGE SELF-DIAGNOSIS MODE WITHOUT CONSULT

NDRS0030S05

From User Mode to Diagnosis Mode

NDRS0030S0501

Diagnosis mode is activated by pressing the front door switch LH at least 5 times within 7 seconds after turning the ignition switch ON. If no malfunction is detected, SRS will not enter Diagnosis mode.



From Diagnosis Mode to User Mode

NDRS0030S0502

- To return to User mode while a malfunction is being detected, turn ignition switch OFF, then back ON and press the front door switch LH at least 5 times within 7 seconds.
- After a malfunction is repaired, turn ignition switch OFF for at least one second, then back ON. Diagnosis mode returns to User mode.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Trouble Diagnoses Introduction (Cont'd)

HOW TO ERASE SELF-DIAGNOSIS RESULTS

=NDRS0030S04

NDRS0030S0401

Ⓟ With CONSULT

- "SELF-DIAG [CURRENT]"

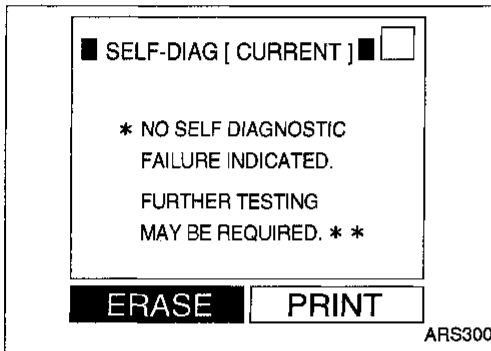
A current Self-diagnosis result is displayed on the CONSULT screen in real time. After the malfunction is repaired completely, no malfunction is detected on "SELF-DIAG [CURRENT]".

- "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 "AIR BAG" warning lamp even if the malfunction is repaired completely.



- "TROUBLE DIAG RECORD"

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

ⓧ Without CONSULT

NDRS0030S0402

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

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

How to Perform Trouble Diagnoses for Quick and Accurate Repair

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

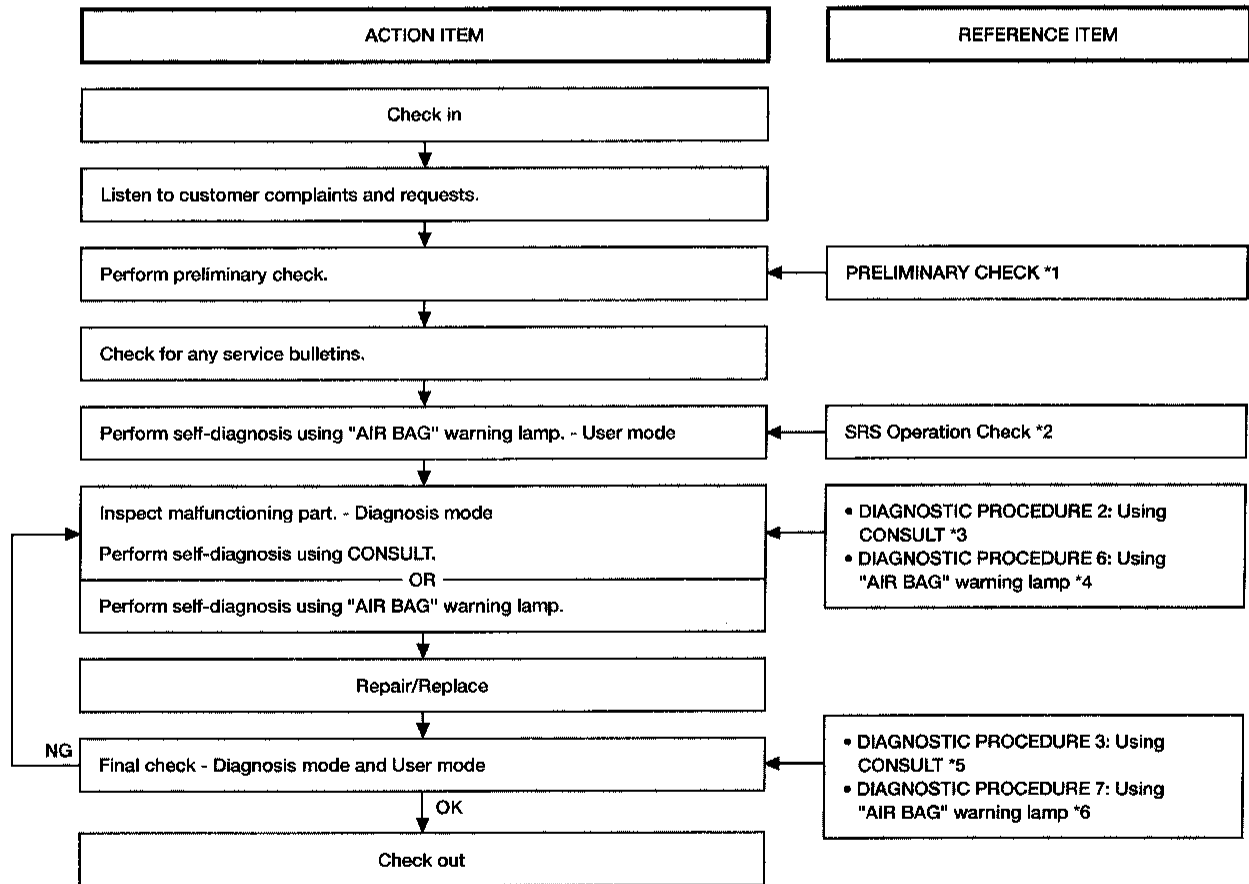
- WHAT Vehicle model
- WHEN Date, Frequencies
- WHERE Road conditions
- HOW Operating conditions, Symptoms

PRELIMINARY CHECK

Check that the following parts are in good order.

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

WORK FLOW



*1: RS-27
*2: RS-31

*3: RS-32
*4: RS-40

*5: RS-34
*6: RS-41

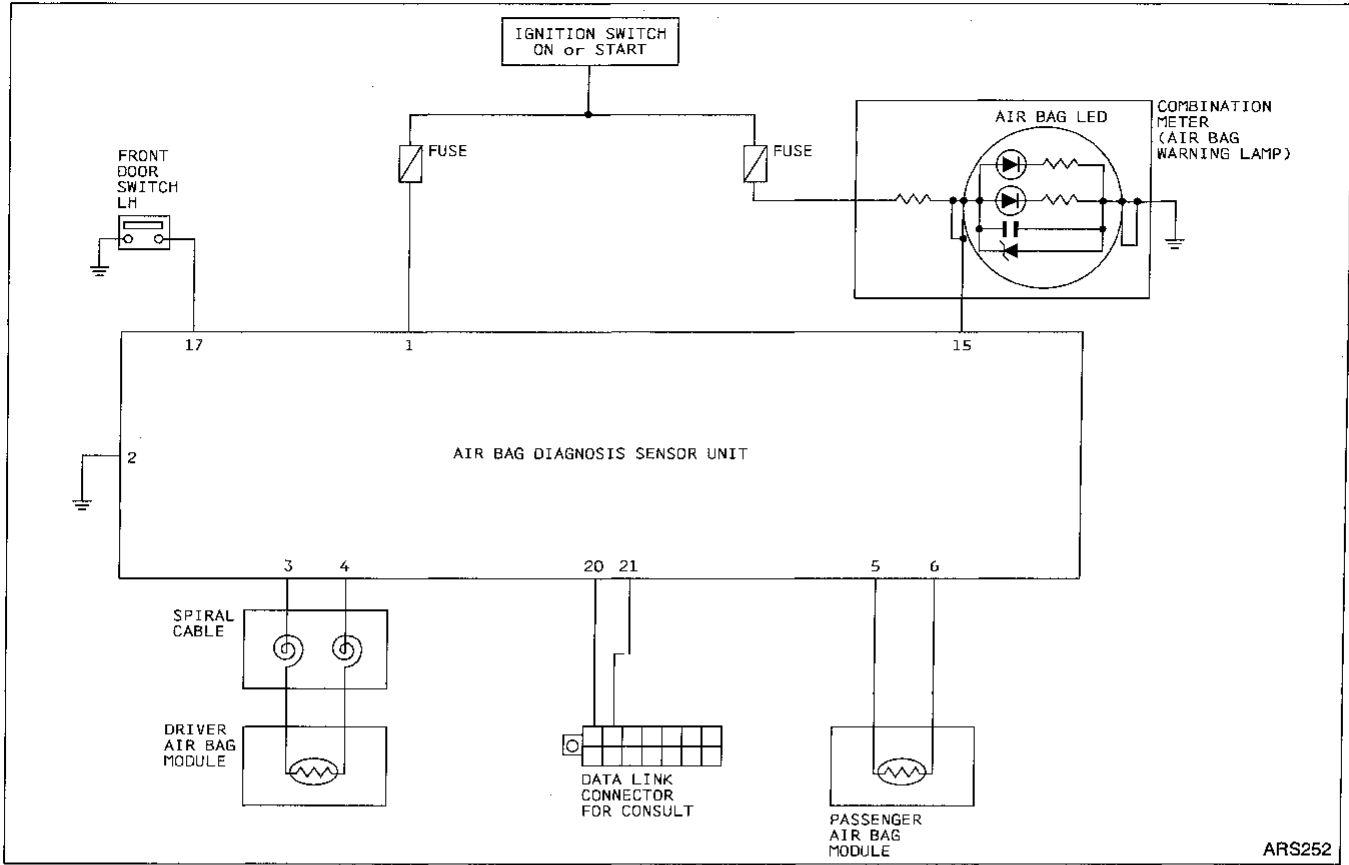
ARS255

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Schematic

Schematic

NDRS0020



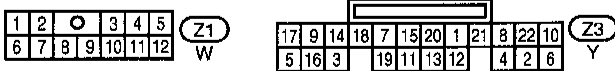
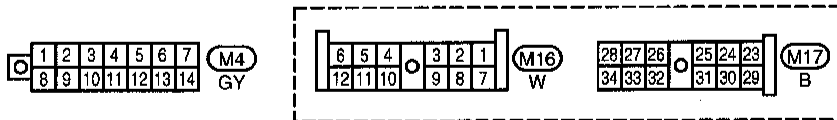
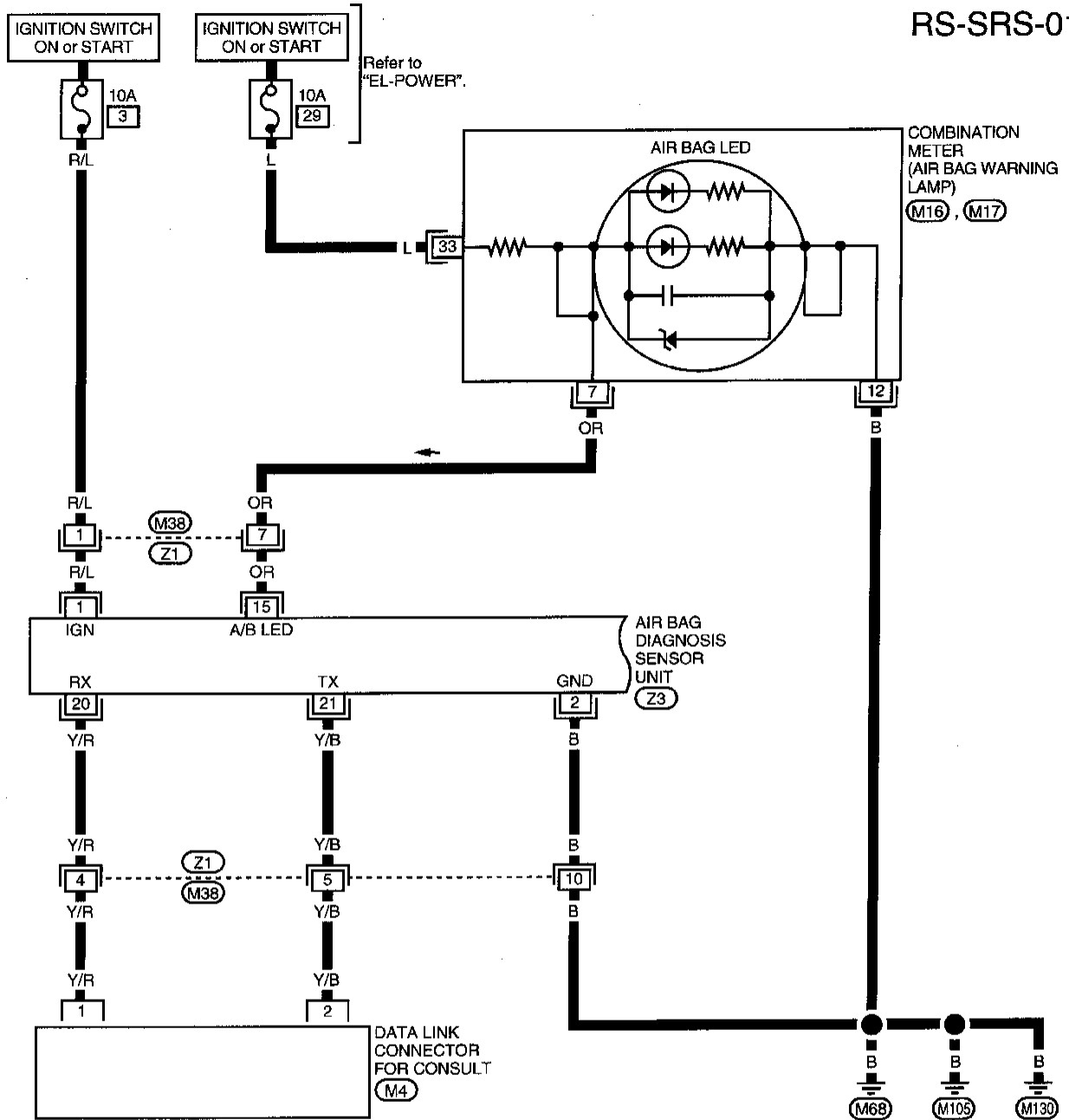
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Wiring Diagram — SRS —

Wiring Diagram — SRS —

NDRS0021

RS-SRS-01

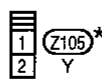
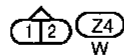
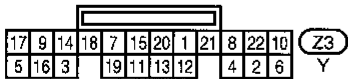
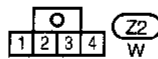
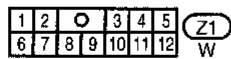
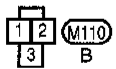
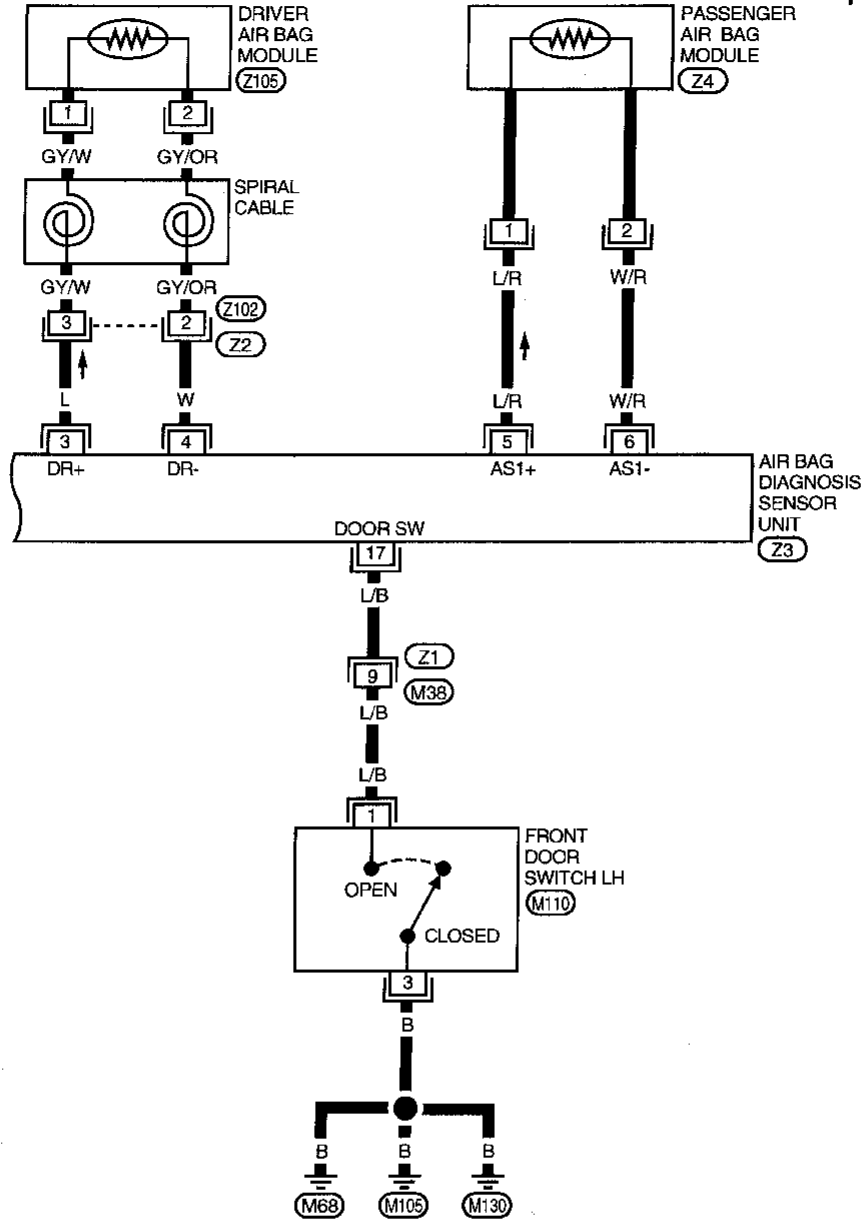


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SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Wiring Diagram — SRS — (Cont'd)

RS-SRS-02

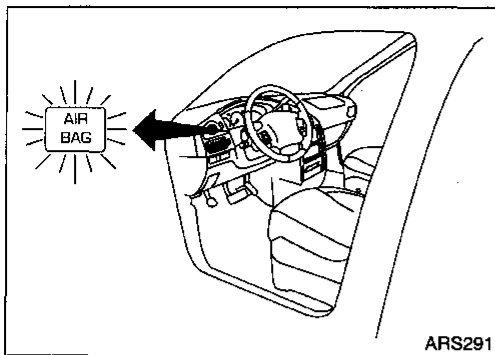


* This connector is not shown in "HARNES LAYOUT" of EL section.

ARS254

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

SRS Operation Check



SRS Operation Check DIAGNOSTIC PROCEDURE 1

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

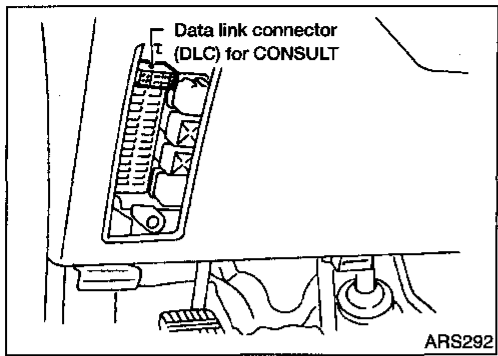
1. After turning ignition switch from OFF to ON, "AIR BAG" warning lamp operates.
2. Compare "AIR BAG" warning lamp operation to the chart below.

"AIR BAG" warning lamp operation — User mode —	SRS condition	Reference item
<p>MRS095A</p>	No malfunction is detected. No further action is necessary.	—
<p>MRS096A</p>	The system is malfunctioning and needs to be repaired as indicated.	Go to DIAGNOSTIC PROCEDURE 2 or 6 (RS-32 or RS-40).
<p>MRS097A</p>	Air bag is deployed. Air bag fuse, air bag diagnosis sensor unit or harness is malfunctioning and needs to be repaired.	Go to COLLISION DIAGNOSIS (RS-47). Go to DIAGNOSTIC PROCEDURE 9 (RS-44).
<p>MRS098A</p>	One of the following has occurred and needs to be repaired. <ul style="list-style-type: none"> • Meter fuse is blown. • "AIR BAG" warning lamp circuit has open or short. • Air bag diagnosis sensor unit is malfunctioning. 	Go to DIAGNOSTIC PROCEDURE 10 (RS-45).

NOTE:
If "AIR BAG" warning lamp operates differently from the operations shown above, refer to "AIR BAG" warning lamp operation — Diagnosis mode —, DIAGNOSTIC PROCEDURE 6 (step 4), RS-40. Then repair as necessary.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Ⓟ Trouble Diagnoses with CONSULT



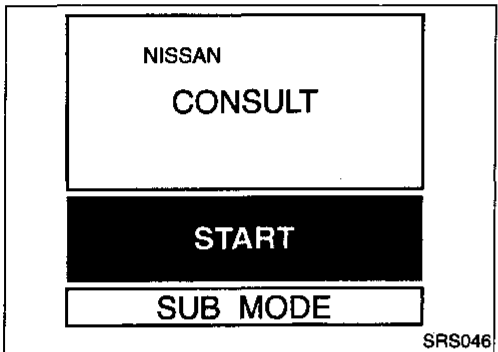
Ⓟ Trouble Diagnoses with CONSULT DIAGNOSTIC PROCEDURE 2

NDRS0023

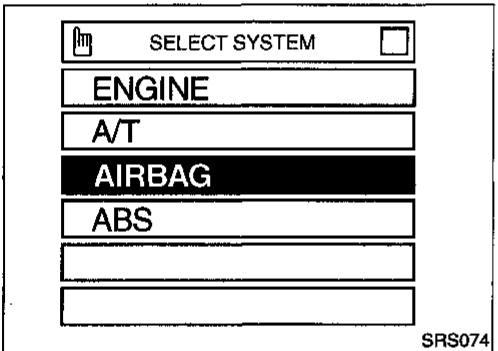
NDRS0023S01

Inspecting SRS malfunctioning parts by using CONSULT — Diagnosis mode

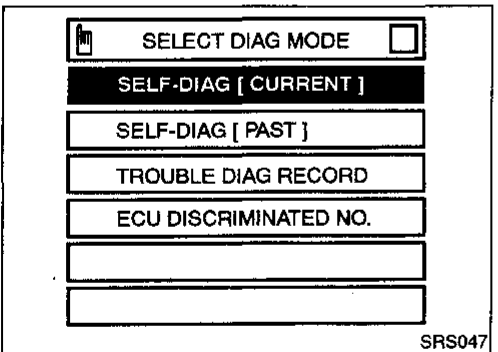
1. Turn ignition switch OFF.
2. Connect CONSULT to Data link connector.



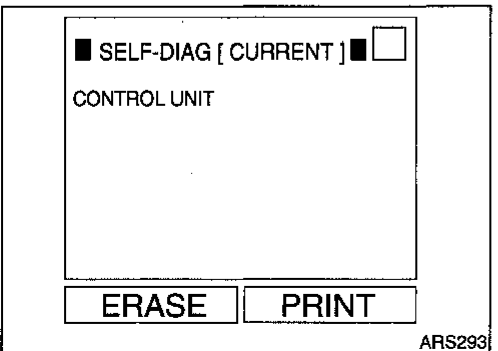
3. Turn ignition switch ON.
4. Touch "START".



5. Touch "AIRBAG".



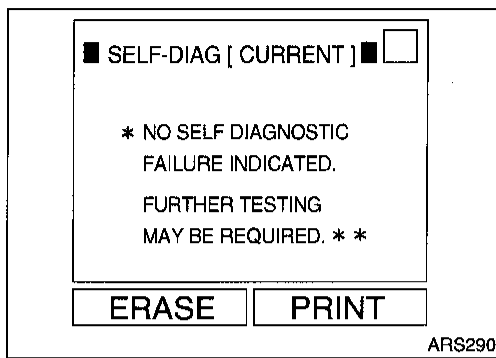
6. Touch "SELF-DIAG [CURRENT]".



7. Self-diagnosis result is displayed on "SELF-DIAG [CURRENT]".

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

ⓑ Trouble Diagnoses with CONSULT (Cont'd)



- If no malfunction is detected on “SELF_DIAG [CURRENT]” but malfunction is indicated by the “AIR BAG” warning lamp in User mode, go to DIAGNOSTIC PROCEDURE 4, RS-36 for diagnosing the following cases:
- Self-diagnosis result (previously stored in the memory) might not have been erased after repair.
- The SRS system malfunctions intermittently.

8. Touch “PRINT”.
9. Compare diagnostic codes to CONSULT Diagnostic Code Chart, RS-33.
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 CONSULT Diagnostic Code Chart that corresponds to the self-diagnosis result. For replacement procedure of component parts, refer to RS-13.
13. After repairing the system, go to DIAGNOSTIC PROCEDURE 3, RS-34 for final checking.

CONSULT Diagnostic Code Chart (“SELF-DIAG [CURRENT]”)

NDRS0023S0101

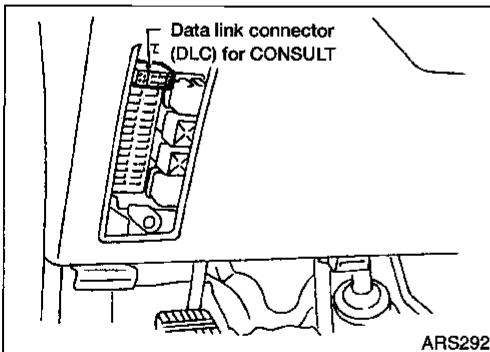
Self-diagnosis result	Explanation		Repair order *“Recheck SRS at each replacement.”
NO SELF DIAGNOSTIC FAILURE INDICATED.	When malfunction is indicated by the “AIR BAG” warning lamp in User mode	<ul style="list-style-type: none"> ● Self-diagnosis result “ SELF-DIAG [PAST]” (previously stored in the memory) might not have been erased after repair. ● Intermittent malfunction has been detected in the past. 	● Go to DIAGNOSTIC PROCEDURE 4 (RS-36).
	● No malfunction is detected.		● Go to DIAGNOSTIC PROCEDURE 3 (RS-34).
AIRBAG MODULE [OPEN]	● Driver air bag module circuit is open. (including the spiral cable)		<ol style="list-style-type: none"> 1. Visually check wiring harness connections. 2. Replace harness if it has visible damage.
AIRBAG MODULE [VB-SHORT]	● Driver air bag module circuit is shorted to some power supply circuit. (including the spiral cable)		<ol style="list-style-type: none"> 3. Replace spiral cable. 4. Replace driver air bag module.
AIRBAG MODULE [GND-SHORT]	● Driver air bag module circuit is shorted to ground. (including the spiral cable)		<ol style="list-style-type: none"> 5. Replace driver air bag module. (Before disposing of it, it must be deployed.)
AIRBAG MODULE [SHORT]	● Driver air bag module circuits are shorted to each other.		<ol style="list-style-type: none"> 5. Replace air bag diagnosis sensor unit. 6. Replace air bag harness.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Ⓔ Trouble Diagnoses with CONSULT (Cont'd)

Self-diagnosis result	Explanation	Repair order **"Recheck SRS at each replacement."
ASSIST A/B MODULE [OPEN]	<ul style="list-style-type: none"> Passenger air bag module circuit is open. 	<ol style="list-style-type: none"> 1. Visually check wiring harness connections. 2. Replace harness if it has visible damage. 3. Replace passenger air bag module. (Before disposing of it, it must be deployed.) 4. Replace air bag diagnosis sensor unit. 5. Replace air bag harness.
ASSIST A/B MODULE [VB-SHORT]	<ul style="list-style-type: none"> Passenger air bag module circuit is shorted to some power supply circuit. 	
ASSIST A/B MODULE [GND-SHORT]	<ul style="list-style-type: none"> Passenger air bag module circuit is shorted to ground. 	
ASSIST A/B MODULE [SHORT]	<ul style="list-style-type: none"> Passenger air bag module circuits are shorted to each other. 	<ol style="list-style-type: none"> 1. Visually check wiring harness connections. 2. Replace air bag harness if it has visible damage. 3. Replace air bag diagnosis sensor unit. 4. Replace air bag harness.
CONTROL UNIT	<ul style="list-style-type: none"> Low battery voltage (Less than 9V) Air bag diagnosis sensor unit is malfunctioning. 	

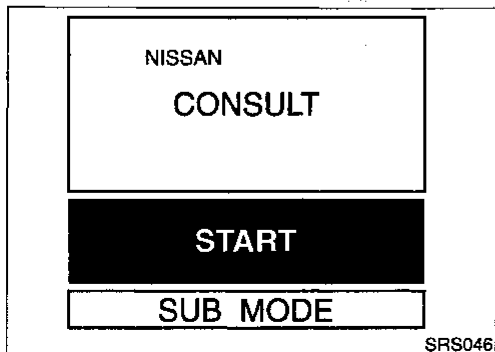
*: Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using the "AIR BAG" warning lamp (in User mode) or CONSULT each time repair is finished. If malfunction is still observed, proceed to the next step. When malfunction is eliminated, further repair work is not required.



DIAGNOSTIC PROCEDURE 3

Final checking after repairing SRS by using CONSULT — ^{NDRS0023502} **Diagnosis mode**

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



SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Ⓟ Trouble Diagnoses with CONSULT (Cont'd)

SELECT SYSTEM

ENGINE

A/T

AIRBAG

ABS

SRS074

5. Touch "AIRBAG".

SELECT DIAG MODE

SELF-DIAG [CURRENT]

SELF-DIAG [PAST]

TROUBLE DIAG RECORD

ECU DISCRIMINATED NO.

SRS047

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

SELF-DIAG [CURRENT]

* NO SELF DIAGNOSTIC FAILURE INDICATED.
FURTHER TESTING
MAY BE REQUIRED. * *

ERASE PRINT

ARS290

7. If no malfunction is detected on "SELF-DIAG [CURRENT]", repair of SRS is completed.
If any self-diagnosis result is displayed on "SELF-DIAG [CURRENT]", the malfunctioning part is not repaired completely or another malfunctioning part is detected. Go to DIAGNOSTIC PROCEDURE 2, page RS-32, and repair malfunctioning part completely.

SELF-DIAG [CURRENT]

* NO SELF DIAGNOSTIC FAILURE INDICATED.
FURTHER TESTING
MAY BE REQUIRED. * *

ERASE PRINT

ARS300

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 "AIR BAG" 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

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

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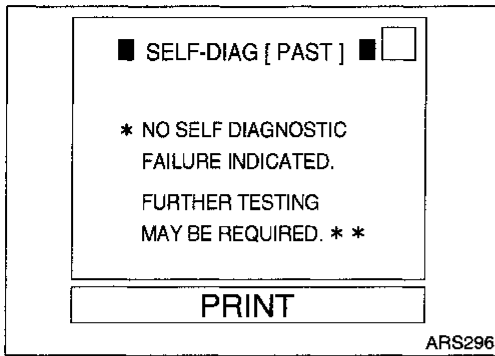
SC

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IDX

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Ⓟ Trouble Diagnoses with CONSULT (Cont'd)



10. 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.

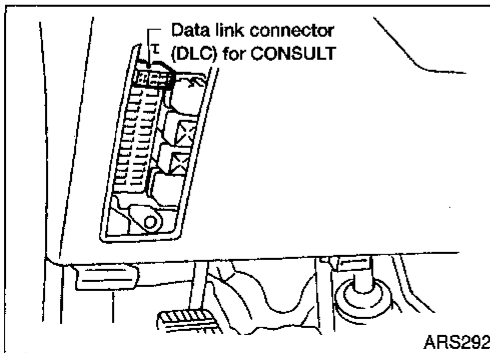
13. Go to "SRS Operation Check", RS-31 to check SRS operation by using "AIR BAG" warning lamp with User mode.

DIAGNOSTIC PROCEDURE 4 (CONTINUED FROM DIAGNOSTIC PROCEDURE 2)

Inspecting SRS malfunction record

NDRS0023503

1	CHECK FOR PROBLEM CODE THAT MIGHT NOT HAVE BEEN ERASED AFTER PREVIOUS REPAIR	
Is it the first time for maintenance of SRS?		
Yes or No		
Yes	▶	Go to DIAGNOSTIC PROCEDURE 5 (RS-36).
No	▶	Self-diagnosis result "SELF-DIAG [PAST]" (previously stored in the memory) might not have been erased after repair. Go to DIAGNOSTIC PROCEDURE 3, step 8 (RS-34).



DIAGNOSTIC PROCEDURE 5

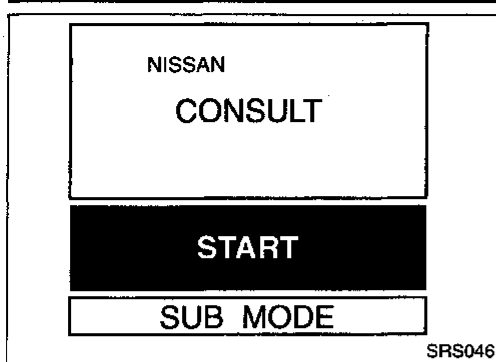
Inspecting SRS intermittent malfunction by using CONSULT — Diagnosis mode

NDRS0023504

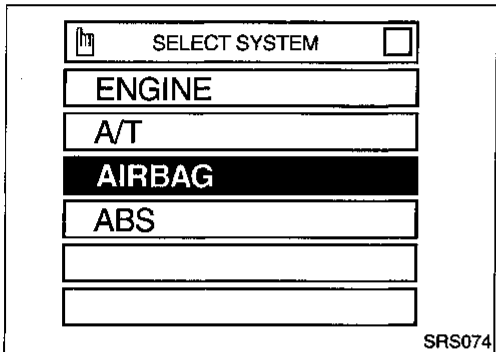
1. Turn ignition switch OFF.
2. Connect CONSULT to Data link connector.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

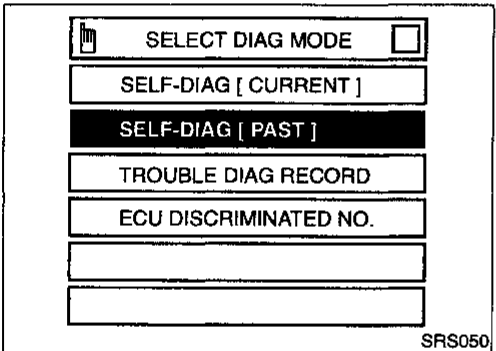
 Trouble Diagnoses with CONSULT (Cont'd)



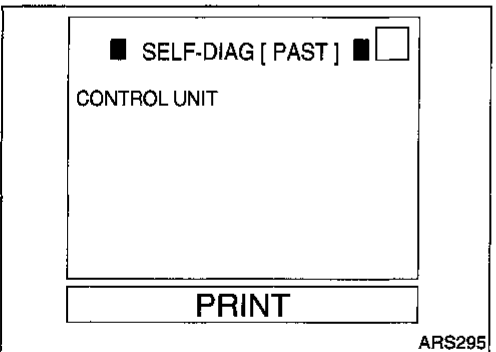
3. Turn ignition switch ON.
4. Touch "START".



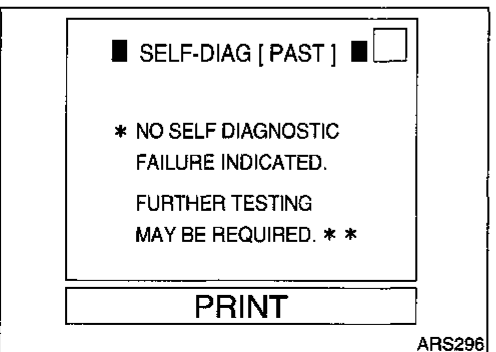
5. Touch "AIRBAG".



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



7. If self-diagnosis result is 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".

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SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Ⓟ Trouble Diagnoses with CONSULT (Cont'd)

A rectangular screen with a white background and a black border. At the top left is a small icon of a hand pointing to a screen. Below it is a menu with several options, each in a rectangular box. The options are: "SELECT DIAG MODE" with a small square to its right, "SELF-DIAG [CURRENT]", "SELF-DIAG [PAST]", "TROUBLE DIAG RECORD" (which is highlighted with a black background and white text), "ECU DISCRIMINATED NO.", and two empty rectangular boxes. In the bottom right corner of the screen, the text "SRS055" is displayed.

8. Touch "TROUBLE DIAG RECORD".

NOTE:

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

A rectangular screen with a white background and a black border. At the top left is a small icon of a hand pointing to a screen. Below it is a menu with several options, each in a rectangular box. The options are: "TROUBLE DIAG RECORD" (which is highlighted with a black background and white text), "ASSIST A/B MODULE [OPEN]", and "PRINT". In the bottom right corner of the screen, the text "ARS297" is displayed.

9. Self-diagnosis result is displayed on "TROUBLE DIAG RECORD".

10. Touch "PRINT".

11. Compare self-diagnosis result to "Intermittent Malfunction Diagnostic Code Chart", RS-39.

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 that corresponds to the self-diagnosis result in "Intermittent Malfunction Diagnostic Code Chart", RS-39. For replacement procedure of component parts, refer to RS-13.

15. Go to DIAGNOSTIC PROCEDURE 3, RS-34, for final checking.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Ⓜ Trouble Diagnoses with CONSULT (Cont'd)

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

-NDRS0023S0401

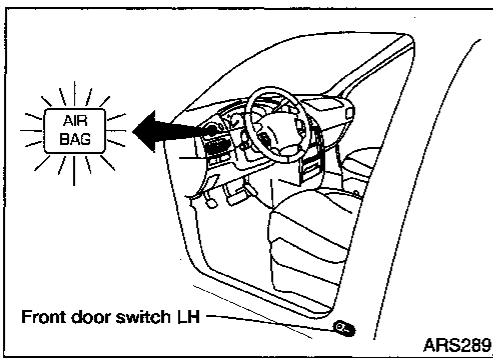
Self-diagnosis result	Explanation	Repair order*
NO SELF DIAGNOSTIC FAILURE INDICATED.	<ul style="list-style-type: none"> No malfunction is detected. 	<ul style="list-style-type: none"> Go to DIAGNOSTIC PROCEDURE 3 (RS-34).
AIRBAG MODULE [OPEN]	<ul style="list-style-type: none"> Driver air bag module circuit is open. (including the spiral cable) 	<ol style="list-style-type: none"> Visually check the wiring harness connection. Replace air bag harness if it has visible damage. If the harness check result is OK, replace driver air bag module (Before disposal of it, it must be deployed.), air bag diagnosis sensor unit and spiral cable.
AIRBAG MODULE [VB-SHORT]	<ul style="list-style-type: none"> Driver air bag module circuit is shorted to some power supply circuit. (including the spiral cable) 	
AIRBAG MODULE [GND-SHORT]	<ul style="list-style-type: none"> Driver air bag module circuit is shorted to ground. (including the spiral cable) 	
AIRBAG MODULE [SHORT]	<ul style="list-style-type: none"> Driver air bag module circuits are shorted to each other. 	
ASSIST A/B MODULE [OPEN]	<ul style="list-style-type: none"> Passenger air bag module circuit is open. 	<ol style="list-style-type: none"> Visually check the wiring harness connection. Replace air bag harness if it has visible damage. If the harness check result is OK, replace passenger air bag module (Before disposal of it, it must be deployed.), and air bag diagnosis sensor unit.
ASSIST A/B MODULE [VB-SHORT]	<ul style="list-style-type: none"> Passenger air bag module circuit is shorted to some power supply circuit. 	
ASSIST A/B MODULE [GND-SHORT]	<ul style="list-style-type: none"> Passenger air bag module circuit is shorted to ground. 	
ASSIST A/B MODULE [SHORT]	<ul style="list-style-type: none"> Passenger air bag module circuits are shorted to each other. 	
CONTROL UNIT	<ul style="list-style-type: none"> Air bag diagnosis sensor unit is malfunctioning. 	<ul style="list-style-type: none"> Replace air bag diagnosis sensor unit.

*: 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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SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

⊗ Trouble Diagnoses without CONSULT



⊗ Trouble Diagnoses without CONSULT DIAGNOSTIC PROCEDURE 6

-NDRS0024

NDRS0024S01

Inspecting SRS malfunctioning parts by using "AIR BAG" warning lamp — Diagnosis mode

NOTE:

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

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

NOTE:

If SRS does not enter Diagnosis mode even though malfunction is detected in User mode, go to DIAGNOSTIC PROCEDURE 11, RS-46.

No.	"AIR BAG" warning lamp operation — Diagnosis mode —	SRS condition
1		<p>a through b are repeated.</p> <ul style="list-style-type: none"> ● Self-diagnosis result (previously stored in the memory) might not have been erased after repair. ● Intermittent malfunction has been detected in the past. <p>Go to DIAGNOSTIC PROCEDURE 8 (RS-43).</p>
2		<p>a through d are repeated.</p> <p>NOTE:</p> <p>a — Interval I b — Start signal (Start signal identifies display modes) c — Interval II d — Indicates malfunctioning part (0.5 sec. ON and 0.5 sec. OFF is counted as one flash.)</p> <p>The system is malfunctioning and needs to be repaired.</p>

5. Malfunctioning part is indicated by the number of flashes (part d). Compare the number of flashes to Warning Lamp Flash Code Chart, RS-41, 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 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 7, RS-41.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

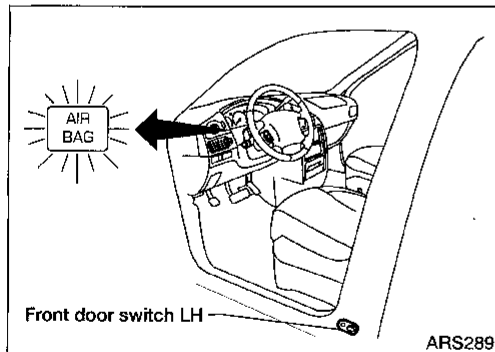
⊗ Trouble Diagnoses without CONSULT (Cont'd)

Warning Lamp Flash Code Chart

NDRS0024S0101

Warning lamp	Flash code d (# of flashes)	Explanation	Repair order *Recheck SRS at each replacement.
"AIR BAG" warning lamp	0	<ul style="list-style-type: none"> Self-diagnosis result (previously stored in the memory) might not have been erased after repair. Intermittent malfunction has been detected in the past. 	Go to DIAGNOSTIC PROCEDURE 8 (RS-43).
	2	The driver air bag module circuit is malfunctioning.	<ol style="list-style-type: none"> Visually check wiring harness connections. Replace harness if it has visible damage. Replace spiral cable. Replace driver air bag module. (Before disposing of it, it must be deployed.) Replace air bag diagnosis sensor unit. Replace air bag harness.
	7	The air bag diagnosis sensor unit is malfunctioning.	<ol style="list-style-type: none"> Visually check wiring harness connections. Replace harness if it has visible damage. Replace air bag diagnosis sensor unit. Replace air bag harness.
	8	The passenger air bag module circuit is malfunctioning.	<ol style="list-style-type: none"> Visually check wiring harness connections. Replace harness if it has visible damage. Replace passenger air bag module. (Before disposing of it, it must be deployed.) Replace air bag diagnosis sensor unit. Replace air bag harness.

* Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using the "AIR BAG" warning lamp (in User mode) or CONSULT each time repair is finished. If malfunction is still observed, proceed to the next step. When malfunction is eliminated, further repair work is not required.



DIAGNOSTIC PROCEDURE 7

Final checking after repairing SRS by using "AIR BAG" warning lamp — Diagnosis mode and user mode

NDRS0024S02

- After repairing SRS, connect both battery cables.
- Open front door LH.
- Turn ignition switch from OFF to ON.
- "AIR BAG" warning lamp operates in Diagnosis mode as follows:

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

⊗ Trouble Diagnoses without CONSULT (Cont'd)

No.	"AIR BAG" warning lamp operation — Diagnosis mode —	SRS condition
1		<p>a through b are repeated.</p> <p>No malfunction is detected or repair is completed. No further action is necessary.</p>
2		<p>a through d are repeated.</p> <p>NOTE: a — Interval I b — Start signal (Start signal identifies display modes) c — Interval II d — Indicates malfunctioning part (0.5 sec. ON and 0.5 sec. OFF is counted as one flash.)</p> <p>The system is malfunctioning and needs to be repaired.</p>

NOTE:

When air bag 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 in chart above, the malfunctioning part is not repaired completely or another malfunctioning part is detected. Go to DIAGNOSTIC PROCEDURE 6, RS-40, 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 from Diagnosis mode to User mode is required while malfunction is being detected, turn ignition switch from OFF to ON. Then press front door switch LH 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
	<p>No malfunction is detected. No further action is necessary.</p>	—
	<p>The system is malfunctioning and needs to be repaired.</p>	<p>Go to DIAGNOSTIC PROCEDURE 2 or 6 (RS-32 or RS-40).</p>

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

⊗ Trouble Diagnoses without CONSULT (Cont'd)

"AIR BAG" warning lamp operation — User mode —	SRS condition	Reference item
 <p>MRS097A</p>	<p>Air bag is deployed.</p> <p>Air bag fuse, air bag diagnosis sensor unit or harness is malfunctioning and needs to be repaired.</p>	<p>Go to COLLISION DIAGNOSIS (RS-47).</p> <p>Go to DIAGNOSTIC PROCEDURE 9 (RS-44).</p>
 <p>MRS098A</p>	<p>One of the following has occurred and needs to be repaired.</p> <ul style="list-style-type: none"> • Meter fuse is blown. • "AIR BAG" warning lamp circuit has open or short. • Air bag diagnosis sensor unit is malfunctioning. 	<p>Go to DIAGNOSTIC PROCEDURE 10 (RS-45).</p>

DIAGNOSTIC PROCEDURE 8 (CONTINUED FROM DIAGNOSTIC PROCEDURE 6)

Inspecting SRS malfunction record

NDRS0024503

1	CHECK FOR PROBLEM CODE THAT MIGHT NOT HAVE BEEN ERASED AFTER PREVIOUS REPAIR	
Is it the first time for maintenance of SRS?		
Yes or No		
Yes	▶	Go to DIAGNOSTIC PROCEDURE 5 (RS-36). (Further inspection cannot be performed without CONSULT.)
No	▶	Self-diagnosis result (previously stored in the memory) might not have been erased after repair. Go to DIAGNOSTIC PROCEDURE 7, step 5 (RS-41).

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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

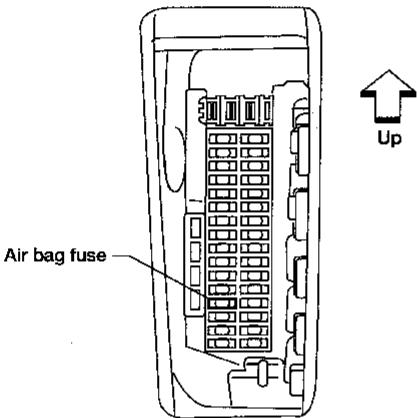
Trouble Diagnoses: "AIR BAG" Warning Lamp Does Not Turn Off

DIAGNOSTIC PROCEDURE 9

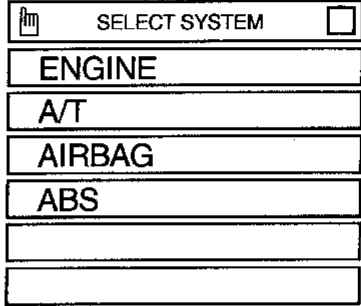
=NDRS0025

NDRS0025S01

1	CHECK FOR DEPLOYMENT OF AIR BAG MODULE
Is air bag module deployed?	
Yes or No	
Yes	▶ Refer to COLLISION DIAGNOSIS (RS-47).
No	▶ GO TO 2.

2	CHECK AIR BAG FUSE
Is SRS Air bag fuse OK?	
	
ARS298	
OK or NG	
OK	▶ GO TO 4.
NG	▶ GO TO 3.

3	CHECK AIR BAG FUSE AGAIN
Replace Air bag fuse and turn ignition switch ON.	
Is Air bag fuse blown again?	
Yes	▶ Repair main harness and/or replace air bag harness.
No	▶ GO TO 4.

4	CHECK AIR BAG DIAGNOSIS SENSOR UNIT
	
<p>ⓐ Connect CONSULT and touch "START".</p> <ul style="list-style-type: none"> Is "AIRBAG" displayed on CONSULT? 	
SRS180	
Yes or No	
Yes	▶ GO TO 5.
No	▶ Visually check wiring harness connection of air bag diagnosis sensor unit. If harness connection check result is OK, replace air bag diagnosis sensor unit.

5	CHECK HARNESS CONNECTION
Is harness connection between "AIR BAG" warning lamp and air bag diagnosis sensor unit OK?	
OK or NG	
OK	▶ Replace air bag diagnosis sensor unit.
NG	▶ Connect "AIR BAG" warning lamp and air bag diagnosis sensor unit connector properly. If "AIR BAG" warning lamp still does not go off, repair main harness and/or replace air bag harness.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

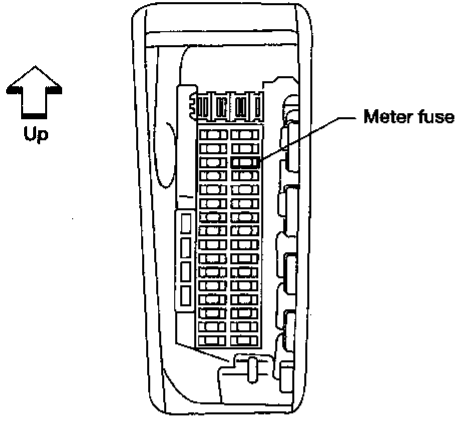
Trouble Diagnoses: "AIR BAG" Warning Lamp Does Not Turn On

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

DIAGNOSTIC PROCEDURE 10

-NDRS0026

NDRS0026S01

1	CHECK "AIR BAG" WARNING LAMP FUSE
Is Meter fuse OK?	
	
ARS299	
OK or NG	
OK	▶ GO TO 3.
NG	▶ GO TO 2.

2	CHECK "AIR BAG" WARNING LAMP FUSE AGAIN
Replace Meter fuse and turn ignition switch ON.	
Is Meter fuse blown again?	
Yes	▶ Repair main harness.
No	▶ GO TO 3.

3	CHECK AIR BAG WARNING LAMP LED
Is "AIR BAG" warning lamp LED OK?	
OK or NG	
OK	▶ GO TO 4.
NG	▶ Replace "AIR BAG" 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	▶ Replace air bag diagnosis sensor unit.
No	▶ Check the ground circuit of "AIR BAG" warning lamp.

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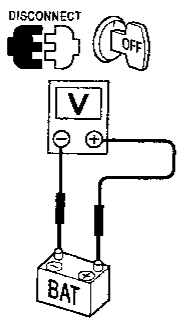
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

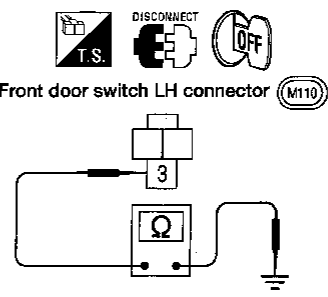
Trouble Diagnoses: SRS Does Not Enter Diagnosis Mode Using Door Switch

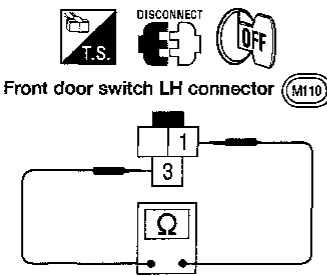
Trouble Diagnoses: SRS Does Not Enter Diagnosis Mode Using Door Switch DIAGNOSTIC PROCEDURE 11

=NDRS0027

NDRS0027S01

1	CHECK BATTERY VOLTAGE
<p>Disconnect both battery cables and check battery voltage using circuit tester.</p> 	
SRS058	
Is battery voltage more than 9V?	
Yes	▶ GO TO 2.
No	▶ Charge battery and return to DIAGNOSTIC PROCEDURE 6 (RS-40).

3	CHECK GROUND CIRCUIT FOR FRONT DOOR SWITCH LH
<p>Check harness continuity between front door switch LH connector terminal 3 and body ground.</p> 	
ARS257	
Does continuity exist?	
Yes	▶ Replace air bag diagnosis sensor unit. Go to "SRS Operation Check" (RS-31).
No	▶ Repair main harness and/or replace air bag harness.

2	CHECK FRONT DOOR SWITCH LH
<p>Remove front door switch LH and check continuity between front door switch LH connector terminals 1 and 3 under the following conditions.</p> 	
ARS256	
<p>Continuity: Door switch is depressed (Door is closed). NO Door switch is released (Door is open). YES</p>	
OK or NG	
OK	▶ GO TO 3.
NG	▶ Replace front door switch LH.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Collision Diagnosis

Collision Diagnosis

NDRS0028

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.
- 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.
- 5) Conduct Self-diagnosis using CONSULT or "AIR BAG" warning lamp. Refer to "SRS Operation Check" for details (RS-31). 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).
- 2) Conduct Self-diagnosis using CONSULT or "AIR BAG" warning lamp. Refer to "SRS Operation Check" for details (RS-31). Ensure entire SRS operates properly.

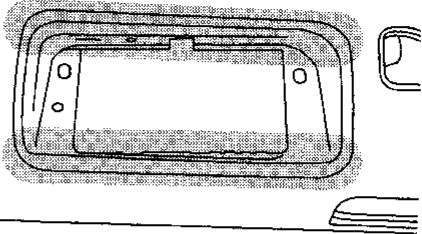
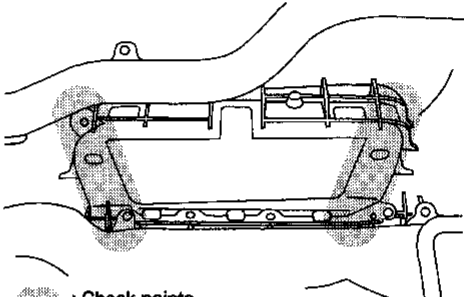
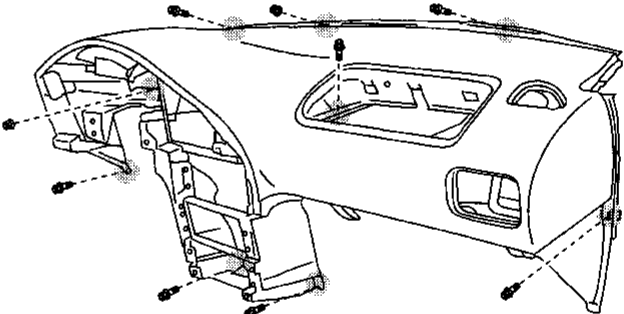
SRS INSPECTION

NDRS0028S01

Part	SRS is activated	SRS is NOT activated
Air bag module (driver and passenger side)	REPLACE Install with new bolts.	<ol style="list-style-type: none"> 1. Remove air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. <ol style="list-style-type: none"> a. Install driver air bag module into the steering wheel to check fit and alignment with the wheel. 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. 4. If damaged — REPLACE. Air bag must be deployed before discarding.
Air bag diagnosis sensor unit	REPLACE Install with new nut and new special bolts.	<ol style="list-style-type: none"> 1. Check case for dents, cracks and deformities. 2. Check connectors for damage, and terminals for deformities. 3. If no damage is found, reinstall with new special bolts and new ground nut. 4. If damaged — REPLACE. Install new air bag diagnosis sensor unit with new special bolts and new ground nut.
Steering wheel		<ol style="list-style-type: none"> 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 the steering wheel. 6. If damaged — REPLACE.
Spiral cable		<ol style="list-style-type: none"> 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 and heavy operation. 4. If no damage is found, reinstall the spiral cable. 5. If damaged — REPLACE.
Harness and Connectors		<ol style="list-style-type: none"> 1. Check connectors for poor connection, damage, and terminals for deformities. 2. Check harness for binding, chafing, cuts, and deformities. 3. If no damage is found, reinstall. 4. Damaged — REPLACE damaged section of harness. Do not attempt to repair, splice or modify any SRS harness.
Instrument panel		Refer to the table on next page.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Collision Diagnosis (Cont'd)

Part	SRS is activated	SRS is NOT activated
Instrument panel	<p>1. When passenger air bag inflates, check the following points for bending, deformities and cracks:</p> <ul style="list-style-type: none"> ● Opening portion for passenger air bag 	<div style="text-align: right; margin-bottom: 20px;">ARS303</div>  <p style="text-align: center;">● : Check points</p> <ul style="list-style-type: none"> ● Passenger air bag module brackets <div style="text-align: right; margin-bottom: 20px;">ARS304</div>  <p style="text-align: center;">● : Check points</p> <ul style="list-style-type: none"> ● The portions securing the instrument panel <div style="text-align: right; margin-bottom: 20px;">ARS302</div>  <p style="text-align: center;">● : Check points</p>
	<p>2. If no damage is found, reinstall the instrument panel.</p> <p>3. If damaged — REPLACE the instrument panel with new nuts and bolts.</p>	